

Appendix for Band EGSM900

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1. Transmitter - Frequency error and phase error

1.1 Test Result

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 880.2 (MHz) PCL=5 | NTNV | -2.42 | 88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.44 | 20 | PASS |
| | HTHV | 7.72 | 88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.3 | 20 | PASS |
| | HTLV | 10.3 | 88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.45 | 20 | PASS |
| LTHV | 0.16 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | 1.42 | 20 | PASS | |
| LTLV | -3.36 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.41 | 20 | PASS | |
| Vibration | -3.94 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | 1.24 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 880.2 (MHz) PCL=12 | NTNV | 11.75 | 88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.39 | 20 | PASS |
| | HTHV | 8.62 | 88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.43 | 20 | PASS |
| | HTLV | 12.82 | 88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.5 | 20 | PASS |
| LTHV | 11.17 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.3 | 20 | PASS | |
| LTLV | 11.66 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.34 | 20 | PASS | |
| Vibration | 11.49 | 88.02 | PASS | RMS | 0.37 | 5 | PASS | |
| | | | | Peak | -1.34 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 880.2 (MHz) PCL=19 | NTNV | -5.49 | 88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.39 | 20 | PASS |
| | HTHV | 13.53 | 88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.42 | 20 | PASS |
| | HTLV | 10.75 | 88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.24 | 20 | PASS |
| LTHV | 11.59 | 88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | 1.21 | 20 | PASS | |
| LTLV | -6.59 | 88.02 | PASS | RMS | 0.37 | 5 | PASS | |
| | | | | Peak | -1.39 | 20 | PASS | |
| Vibration | -6.39 | 88.02 | PASS | RMS | 0.35 | 5 | PASS | |
| | | | | Peak | -1.32 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|------------------------------|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 902.4 | NTNV | -0.19 | 90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | 1.72 | 20 | PASS |
| | HTHV | 16.95 | 90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | 1.46 | 20 | PASS |

| | | | | | | | | |
|----------------|-----------|-------|-------|------|------|-------|----|------|
| (MHz) PCL=5 | HTLV | 16.63 | 90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.61 | 20 | PASS |
| | LTHV | 10.07 | 90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | 1.71 | 20 | PASS |
| | LTLV | -1.58 | 90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | 1.71 | 20 | PASS |
| | Vibration | 0.61 | 90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.56 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 902.4 (MHz) PCL=12 | NTNV | 21.92 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.63 | 20 | PASS |
| | HTHV | 0.39 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | -1.55 | 20 | PASS |
| | HTLV | 14.04 | 90.24 | PASS | RMS | 0.43 | 5 | PASS |
| | | | | | Peak | 1.67 | 20 | PASS |
| | LTHV | 16.92 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.69 | 20 | PASS |
| | LTLV | 15.46 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | -1.59 | 20 | PASS |
| | Vibration | 15.24 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.56 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 902.4 (MHz) PCL=19 | NTNV | 22.28 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.76 | 20 | PASS |
| | HTHV | 1.97 | 90.24 | PASS | RMS | 0.43 | 5 | PASS |
| | | | | | Peak | -1.55 | 20 | PASS |
| | HTLV | 17.89 | 90.24 | PASS | RMS | 0.43 | 5 | PASS |
| | | | | | Peak | -1.56 | 20 | PASS |
| | LTHV | 21.63 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.48 | 20 | PASS |
| | LTLV | 16.82 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | 1.46 | 20 | PASS |
| | Vibration | 20.11 | 90.24 | PASS | RMS | 0.44 | 5 | PASS |
| | | | | | Peak | -1.55 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 914.8 (MHz) PCL=5 | NTNV | -3.2 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.53 | 20 | PASS |
| | HTHV | 1.36 | 91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.37 | 20 | PASS |
| | HTLV | -1.52 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.29 | 20 | PASS |
| | LTHV | -2.91 | 91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.4 | 20 | PASS |
| | LTLV | -1.87 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.33 | 20 | PASS |
| | Vibration | -1.45 | 91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.49 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 914.8 (MHz) PCL=12 | NTNV | 4.29 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.34 | 20 | PASS |
| | HTHV | 4.46 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.65 | 20 | PASS |
| | HTLV | 5.42 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.55 | 20 | PASS |
| | LTHV | 5.46 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.52 | 20 | PASS |
| | LTLV | 3 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.33 | 20 | PASS |
| | Vibration | 6.26 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.42 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 914.8 (MHz) PCL=19 | NTNV | 6.39 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.48 | 20 | PASS |
| | HTHV | 2.52 | 91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.52 | 20 | PASS |
| | HTLV | 6.94 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.36 | 20 | PASS |
| | LTHV | 5.1 | 91.48 | PASS | RMS | 0.35 | 5 | PASS |
| | | | | | Peak | -1.37 | 20 | PASS |
| | LTLV | 7.97 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.4 | 20 | PASS |
| | Vibration | 11.07 | 91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.3 | 20 | PASS |

2. Transmitter - Frequency error under multipath and interference conditions

2.1 Test Result

| EGSM900 | Test Condition | Fading Set | Frequency error(Hz) | | | Limit (Hz) | Verdict |
|------------------|----------------|------------|---------------------|-------------|--------------|------------|---------|
| | | | LCH 880.2MHz | LCH 902MHz | LCH 914.8MHz | | |
| EGSM900 PCL=5 | NTNV | RA250 | RA250=-3.36 | RA250=10.2 | RA250=-2.55 | ±300 | PASS |
| | | HT100 | HT100=-4 | HT100=-1.42 | HT100=-4.04 | ±180 | PASS |
| | | TU3 | TU3=-0.48 | TU3=7.78 | TU3=-1.16 | ±230 | PASS |
| | | TU50 | TU50=-5.52 | TU50=7.78 | TU50=0.71 | ±160 | PASS |
| | HTHV | RA250 | RA250=6.88 | RA250=9.14 | RA250=4.94 | ±300 | PASS |
| | | HT100 | HT100=7.1 | HT100=15.79 | HT100=-2.65 | ±180 | PASS |
| | | TU3 | TU3=0.19 | TU3=0.36 | TU3=-0.84 | ±230 | PASS |
| | | TU50 | TU50=-1.84 | TU50=4.16 | TU50=1.19 | ±160 | PASS |
| | HTLV | RA250 | RA250=-3.78 | RA250=1.26 | RA250=0.13 | ±300 | PASS |
| | | HT100 | HT100=-4.13 | HT100=4.65 | HT100=-0.84 | ±180 | PASS |

| | | | | | | | |
|--|------|-------|-------------|-------------|-------------|------|------|
| | | TU3 | TU3=-3.52 | TU3=5.52 | TU3=-0.84 | ±230 | PASS |
| | | TU50 | TU50=-4.46 | TU50=4.33 | TU50=1.1 | ±160 | PASS |
| | LTHV | RA250 | RA250=-2.52 | RA250=11.17 | RA250=-0.29 | ±300 | PASS |
| | | HT100 | HT100=-5.55 | HT100=5.81 | HT100=-0.9 | ±180 | PASS |
| | | TU3 | TU3=-2.45 | TU3=0.87 | TU3=-0.94 | ±230 | PASS |
| | | TU50 | TU50=-4.42 | TU50=9.65 | TU50=0.77 | ±160 | PASS |
| | LTLV | RA250 | RA250=-4.49 | RA250=6.75 | RA250=0.39 | ±300 | PASS |
| | | HT100 | HT100=-4.94 | HT100=-2.2 | HT100=-1.52 | ±180 | PASS |
| | | TU3 | TU3=-1.74 | TU3=-1.49 | TU3=0.65 | ±230 | PASS |
| | | TU50 | TU50=-2.55 | TU50=8.23 | TU50=-2.32 | ±160 | PASS |

| EGSM900 | Test Condition | Fading Set | Frequency error(Hz) | | | Limit (Hz) | Verdict |
|-------------------|----------------|------------|---------------------|-------------|--------------|------------|---------|
| | | | LCH 880.2MHz | LCH 902MHz | LCH 914.8MHz | | |
| EGSM900 PCL=12 | NTNV | RA250 | RA250=-6.84 | RA250=18.11 | RA250=-1.39 | ±300 | PASS |
| | | HT100 | HT100=-5.94 | HT100=9.17 | HT100=-4.84 | ±180 | PASS |
| | | TU3 | TU3=-4.75 | TU3=11.62 | TU3=-4.1 | ±230 | PASS |
| | | TU50 | TU50=-6.52 | TU50=10.4 | TU50=-4.46 | ±160 | PASS |
| | HTHV | RA250 | RA250=-2.42 | RA250=2.81 | RA250=1.97 | ±300 | PASS |
| | | HT100 | HT100=11.69 | HT100=14.92 | HT100=16.56 | ±180 | PASS |
| | | TU3 | TU3=-2.58 | TU3=16.08 | TU3=-4.23 | ±230 | PASS |
| | | TU50 | TU50=9.98 | TU50=15.56 | TU50=14.14 | ±160 | PASS |
| | HTLV | RA250 | RA250=-6.2 | RA250=18.21 | RA250=-4.04 | ±300 | PASS |
| | | HT100 | HT100=-7.01 | HT100=9.07 | HT100=-3.68 | ±180 | PASS |
| | | TU3 | TU3=-6.91 | TU3=16.34 | TU3=-3 | ±230 | PASS |
| | | TU50 | TU50=-6.26 | TU50=21.18 | TU50=-4.13 | ±160 | PASS |
| | LTHV | RA250 | RA250=-5.91 | RA250=14.24 | RA250=-3.03 | ±300 | PASS |
| | | HT100 | HT100=-5.39 | HT100=14.79 | HT100=-2.78 | ±180 | PASS |
| | | TU3 | TU3=-4.29 | TU3=17.34 | TU3=-6.55 | ±230 | PASS |
| | | TU50 | TU50=-6.75 | TU50=14.88 | TU50=-3.62 | ±160 | PASS |
| | LTLV | RA250 | RA250=-6.2 | RA250=12.75 | RA250=-4.52 | ±300 | PASS |
| | | HT100 | HT100=-5.68 | HT100=17.92 | HT100=-2.07 | ±180 | PASS |
| | | TU3 | TU3=-5.42 | TU3=11.46 | TU3=-2.32 | ±230 | PASS |

| | | | | | | | |
|--|--|------|------------|------------|------------|------|------|
| | | TU50 | TU50=-6.26 | TU50=13.17 | TU50=-2.58 | ±160 | PASS |
|--|--|------|------------|------------|------------|------|------|

| EGSM900 | Test Condition | Fading Set | Frequency error(Hz) | | | Limit (Hz) | Verdict |
|-------------------|----------------|------------|---------------------|-------------|--------------|------------|---------|
| | | | LCH 880.2MHz | LCH 902MHz | LCH 914.8MHz | | |
| EGSM900 PCL=19 | NTNV | RA250 | RA250=7.78 | RA250=15.79 | RA250=-2.23 | ±300 | PASS |
| | | HT100 | HT100=7.14 | HT100=8.23 | HT100=-1.26 | ±180 | PASS |
| | | TU3 | TU3=6.17 | TU3=10.33 | TU3=-2.39 | ±230 | PASS |
| | | TU50 | TU50=7.49 | TU50=11.4 | TU50=-2.23 | ±160 | PASS |
| | HTHV | RA250 | RA250=9.2 | RA250=15.05 | RA250=17.05 | ±300 | PASS |
| | | HT100 | HT100=11.11 | HT100=16.18 | HT100=16.85 | ±180 | PASS |
| | | TU3 | TU3=10.75 | TU3=21.18 | TU3=-3.65 | ±230 | PASS |
| | | TU50 | TU50=11.36 | TU50=15.98 | TU50=15.82 | ±160 | PASS |
| | HTLV | RA250 | RA250=4.55 | RA250=22.57 | RA250=-2.71 | ±300 | PASS |
| | | HT100 | HT100=6.2 | HT100=21.92 | HT100=-3.91 | ±180 | PASS |
| | | TU3 | TU3=6.75 | TU3=8.36 | TU3=-1.68 | ±230 | PASS |
| | | TU50 | TU50=5 | TU50=17.79 | TU50=-3.13 | ±160 | PASS |
| | LTHV | RA250 | RA250=6.07 | RA250=14.14 | RA250=-3.26 | ±300 | PASS |
| | | HT100 | HT100=5.36 | HT100=7.62 | HT100=-0.68 | ±180 | PASS |
| | | TU3 | TU3=6.94 | TU3=20.15 | TU3=-2.55 | ±230 | PASS |
| | | TU50 | TU50=6.91 | TU50=17.85 | TU50=-2.07 | ±160 | PASS |
| | LTLV | RA250 | RA250=7.17 | RA250=7.62 | RA250=-2.78 | ±300 | PASS |
| | | HT100 | HT100=8.04 | HT100=14.98 | HT100=-2.26 | ±180 | PASS |
| | | TU3 | TU3=6.07 | TU3=9.75 | TU3=-1.16 | ±230 | PASS |
| | | TU50 | TU50=6.65 | TU50=12.82 | TU50=-0.32 | ±160 | PASS |

3. Frequency error and phase error in GPRS multislots configuration

3.1 Test Result

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---------------------|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| Reference Frequency | NTNV | 15.17 | ±88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.37 | 20 | PASS |
| 880.2 (MHz) | HTHV | 15.85 | ±88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.44 | 20 | PASS |
| | HTLV | 16.5 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |

| | | | | | | | | |
|---------|-----------|-------|--------|------|-------|-------|------|------|
| GAMMA=3 | LTHV | 15.82 | ±88.02 | PASS | Peak | 1.24 | 20 | PASS |
| | | | | | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.45 | 20 | PASS |
| | LTLV | 16.24 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.38 | 20 | PASS |
| | Vibration | 15.85 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| Peak | | | | | -1.45 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 880.2 (MHz) GAMMA=1 0 | NTNV | 15.37 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.6 | 20 | PASS |
| | HTHV | 12.4 | ±88.02 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.25 | 20 | PASS |
| | HTLV | 13.11 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.25 | 20 | PASS |
| LTHV | 11.98 | ±88.02 | PASS | RMS | 0.37 | 5 | PASS | |
| | | | | Peak | 1.43 | 20 | PASS | |
| LTLV | 11.78 | ±88.02 | PASS | RMS | 0.35 | 5 | PASS | |
| | | | | Peak | 1.41 | 20 | PASS | |
| Vibration | 13.08 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | 1.5 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 880.2 (MHz) GAMMA=1 7 | NTNV | 16.27 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.39 | 20 | PASS |
| | HTHV | 15.46 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.23 | 20 | PASS |
| | HTLV | 14.46 | ±88.02 | PASS | RMS | 0.35 | 5 | PASS |
| | | | | | Peak | -1.4 | 20 | PASS |
| LTHV | 17.79 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.36 | 20 | PASS | |
| LTLV | 16.5 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.38 | 20 | PASS | |
| Vibration | 19.15 | ±88.02 | PASS | RMS | 0.36 | 5 | PASS | |
| | | | | Peak | -1.39 | 20 | PASS | |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 902.4 (MHz) GAMMA=3 | NTNV | 18.34 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.51 | 20 | PASS |
| | HTHV | 25.25 | ±90.24 | PASS | RMS | 0.48 | 5 | PASS |
| | | | | | Peak | 1.69 | 20 | PASS |
| | HTLV | 22.83 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.58 | 20 | PASS |
| LTHV | 19.82 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS | |
| | | | | Peak | -1.98 | 20 | PASS | |
| LTLV | 23.92 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS | |
| | | | | Peak | -1.56 | 20 | PASS | |
| Vibration | 15.72 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS | |
| | | | | Peak | 1.42 | 20 | PASS | |

| EGSM900 | Test | Frequency | Limit | Result | Phase Error | Limit | Result |
|---------|------|-----------|-------|--------|-------------|-------|--------|
|---------|------|-----------|-------|--------|-------------|-------|--------|

| | Condition | Error(Hz) | (Hz) | | (degree) | | (degree) | |
|---------------------|-----------|-----------|--------|------|----------|-------|----------|------|
| | | | | | | | | |
| Reference Frequency | NTNV | 18.56 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.61 | 20 | PASS |
| 902.4 (MHz) | HTHV | 21.24 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.6 | 20 | PASS |
| GAMMA=10 | HTLV | 14.69 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.71 | 20 | PASS |
| | LTHV | 16.92 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.52 | 20 | PASS |
| | LTLV | 18.66 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.62 | 20 | PASS |
| Vibration | | 17.98 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.64 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---------------------|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | | | | |
| Reference Frequency | NTNV | 23.37 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.64 | 20 | PASS |
| 902.4 (MHz) | HTHV | 14.24 | ±90.24 | PASS | RMS | 0.46 | 5 | PASS |
| | | | | | Peak | -1.53 | 20 | PASS |
| GAMMA=17 | HTLV | 16.98 | ±90.24 | PASS | RMS | 0.48 | 5 | PASS |
| | | | | | Peak | -1.76 | 20 | PASS |
| | LTHV | 20.4 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.86 | 20 | PASS |
| | LTLV | 23.05 | ±90.24 | PASS | RMS | 0.48 | 5 | PASS |
| | | | | | Peak | -1.49 | 20 | PASS |
| Vibration | | 22.31 | ±90.24 | PASS | RMS | 0.47 | 5 | PASS |
| | | | | | Peak | -1.51 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---------------------|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | | | | |
| Reference Frequency | NTNV | 16.34 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.48 | 20 | PASS |
| 914.8 (MHz) | HTHV | 17.95 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.51 | 20 | PASS |
| GAMMA=3 | HTLV | 17.21 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.41 | 20 | PASS |
| | LTHV | 19.27 | ±91.48 | PASS | RMS | 0.35 | 5 | PASS |
| | | | | | Peak | 1.69 | 20 | PASS |
| | LTLV | 18.44 | ±91.48 | PASS | RMS | 0.38 | 5 | PASS |
| | | | | | Peak | 1.37 | 20 | PASS |
| Vibration | | 16.95 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.34 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---------------------|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| | | | | | | | | |
| Reference Frequency | NTNV | 13.75 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.41 | 20 | PASS |
| 914.8 (MHz) | HTHV | 14.01 | ±91.48 | PASS | RMS | 0.38 | 5 | PASS |
| | | | | | Peak | 1.35 | 20 | PASS |
| GAMMA=10 | HTLV | 14.24 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.58 | 20 | PASS |
| | LTHV | 13.17 | ±91.48 | PASS | RMS | 0.38 | 5 | PASS |
| | | | | | Peak | 1.4 | 20 | PASS |
| | LTLV | 13.88 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |

| | | | | | | | | |
|--|-----------|-------|--------|------|------|-------|----|------|
| | | | | | Peak | -1.42 | 20 | PASS |
| | Vibration | 13.59 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.37 | 20 | PASS |

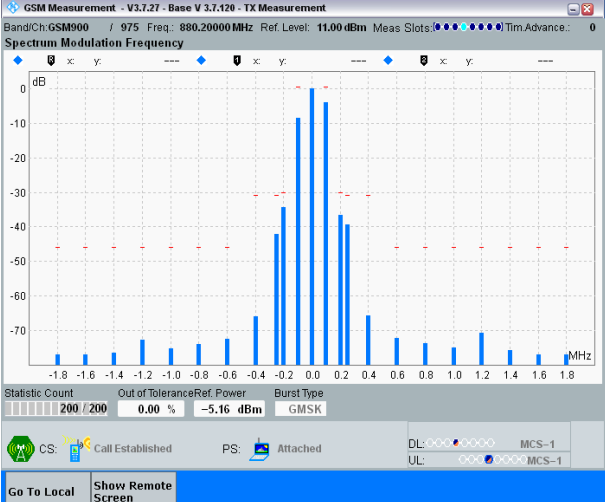
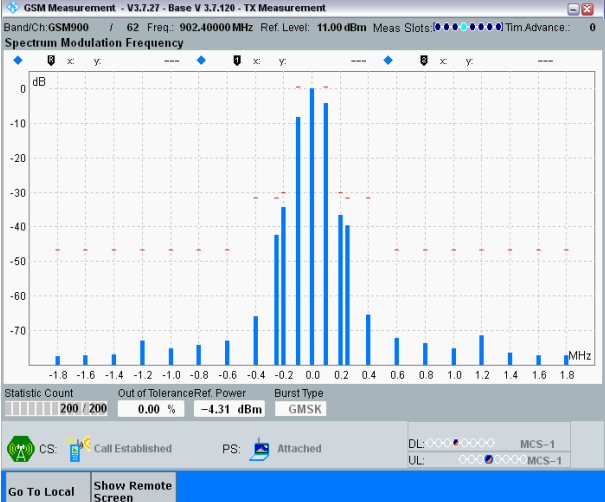
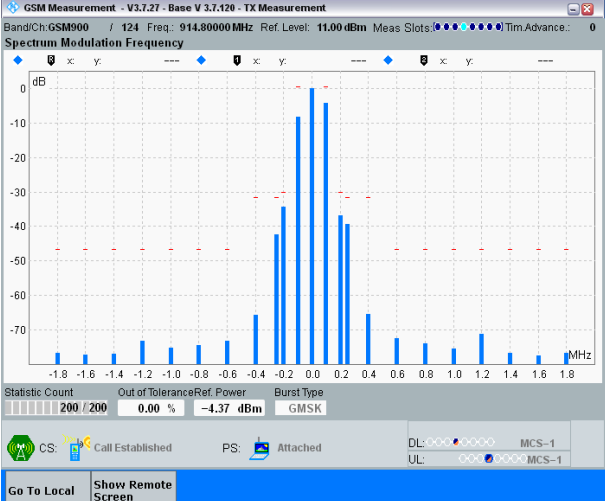
| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|--|----------------|---------------------|------------|--------|----------------------|-------|----------------|--------|
| Reference Frequency 914.8 (MHz) GAMMA=1 7 | NTNV | 17.56 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.29 | 20 | PASS |
| | HTHV | 15.59 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.54 | 20 | PASS |
| | HTLV | 15.01 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | 1.43 | 20 | PASS |
| | LTHV | 16.47 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | 1.3 | 20 | PASS |
| | LTLV | 17.18 | ±91.48 | PASS | RMS | 0.37 | 5 | PASS |
| | | | | | Peak | -1.33 | 20 | PASS |
| | Vibration | 19.05 | ±91.48 | PASS | RMS | 0.36 | 5 | PASS |
| | | | | | Peak | -1.52 | 20 | PASS |

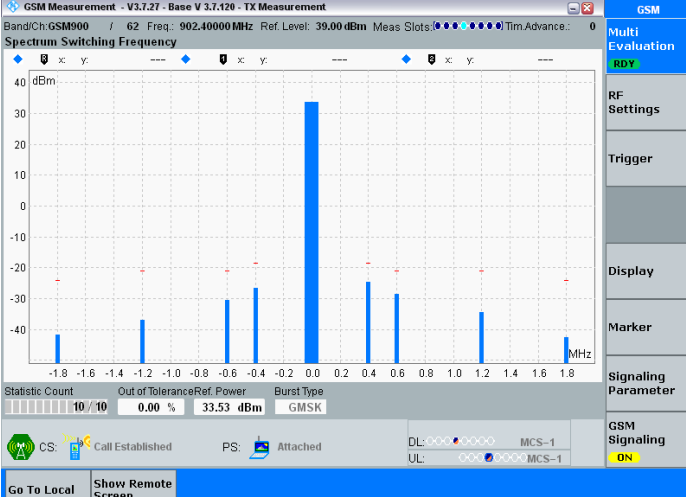
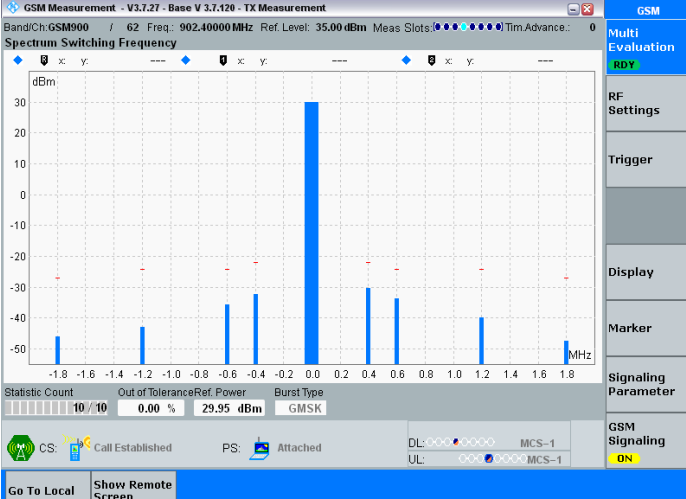

4. Transmitter - Output RF spectrum

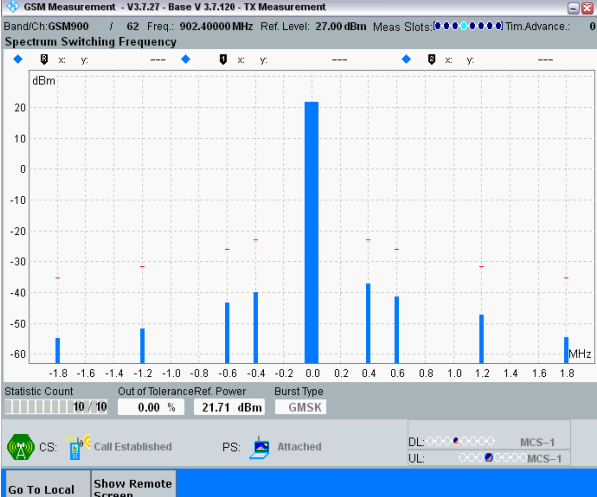
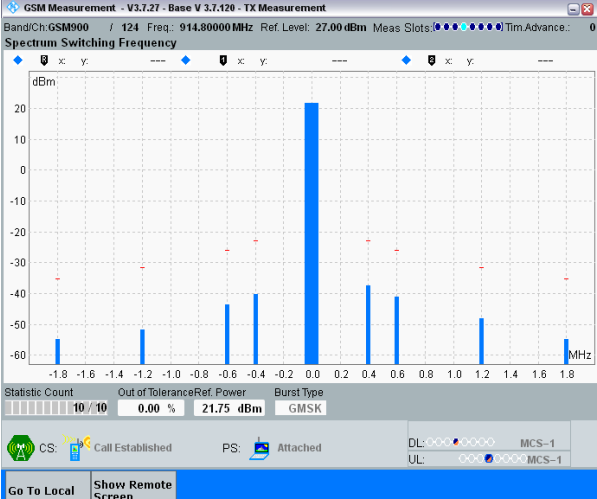
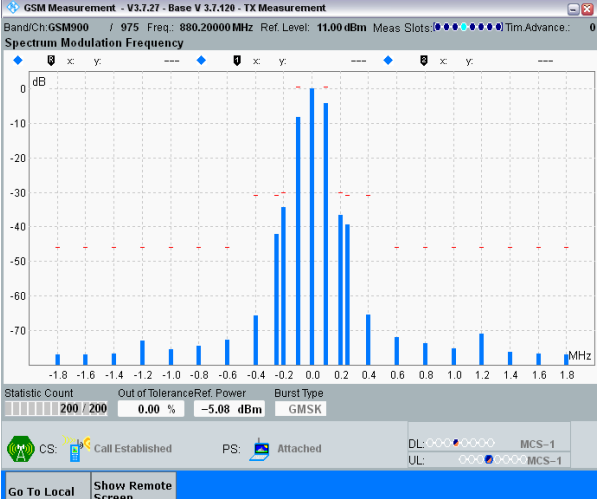
4.1 Test Result

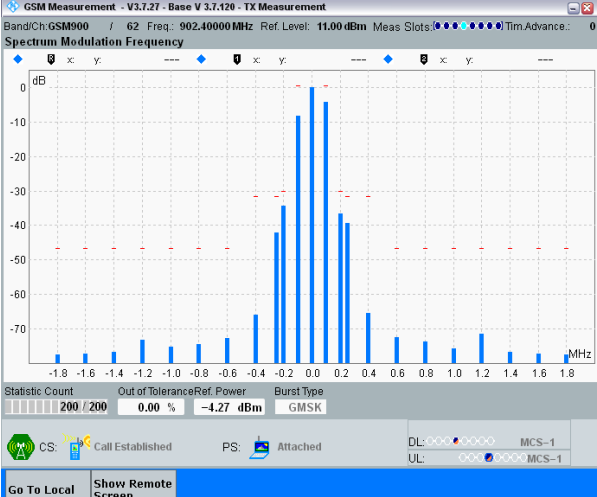
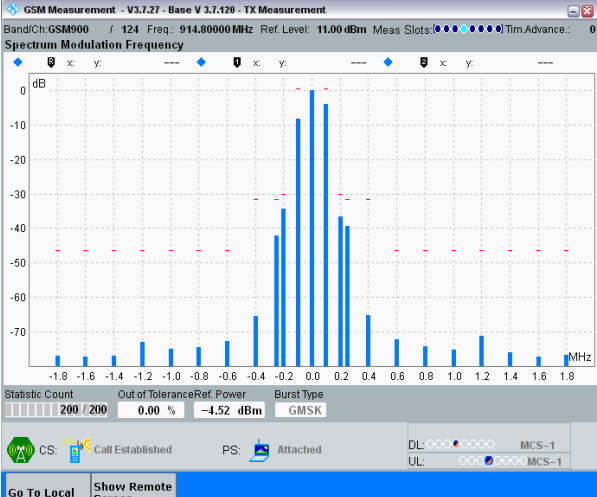
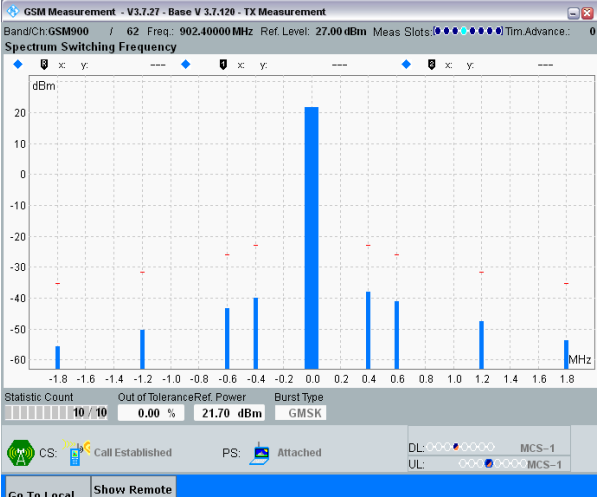
| Test Mode | Test Condition | Case No. | PCL | Channel | Verdict | |
|-----------|----------------|----------|-----|---------|---------|------|
| EGSM900 | NTNV | 1 | 05 | MCH | PASS | |
| | | | | LCH | PASS | |
| | | 2 | 19 | MCH | PASS | |
| | | | | HCH | PASS | |
| | | 3 | 05 | MCH | PASS | |
| | | | | 07 | MCH | PASS |
| | | | 11 | LCH | PASS | |
| | | | | MCH | PASS | |
| | | | HCH | PASS | | |
| | | | LCH | PASS | | |
| | | HTHV | 2 | 19 | MCH | PASS |
| | | | | | HCH | PASS |
| | 3 | | 11 | MCH | PASS | |
| | | | | LCH | PASS | |
| | HTLV | 2 | 19 | MCH | PASS | |
| | | | | HCH | PASS | |
| | | 3 | 11 | MCH | PASS | |
| | | | | LCH | PASS | |
| | LTHV | 2 | 19 | MCH | PASS | |
| | | | | HCH | PASS | |
| | | 3 | 11 | MCH | PASS | |
| | | | | LCH | PASS | |
| | LTLV | 2 | 19 | MCH | PASS | |
| | | | | HCH | PASS | |
| 3 | | 11 | MCH | PASS | | |
| | | | LCH | PASS | | |

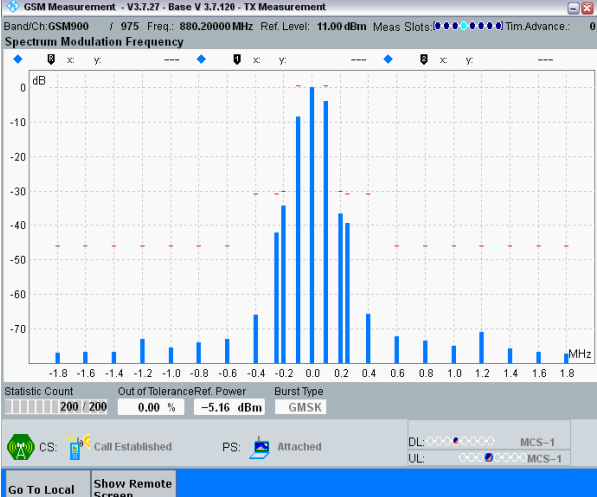
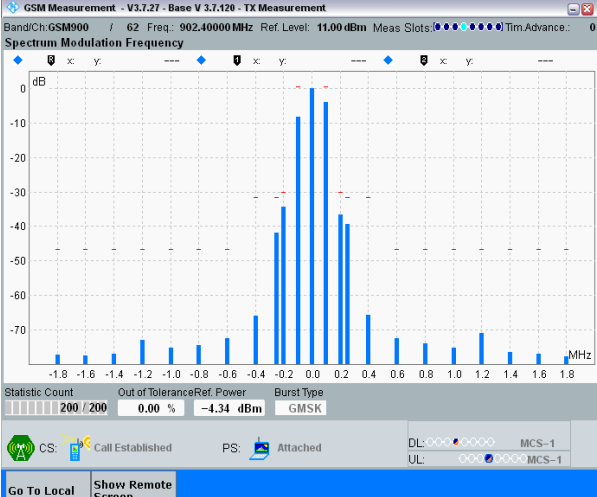
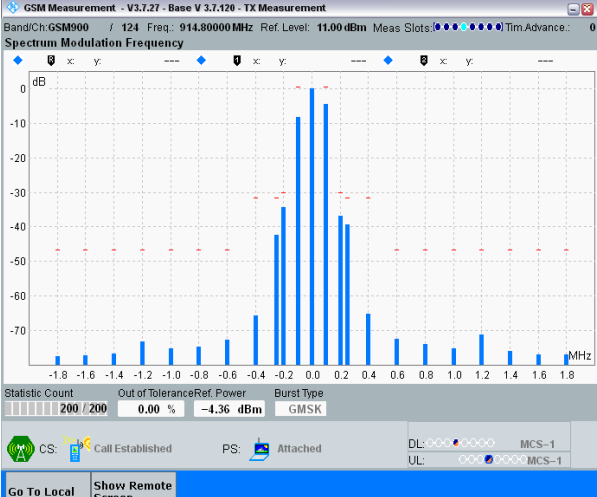
4.2 Test Graph

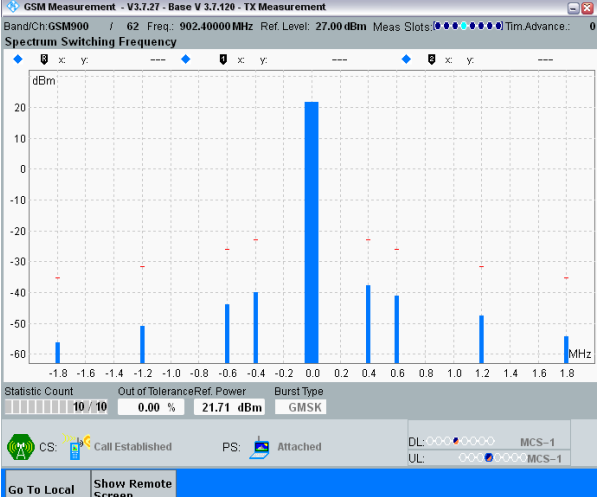
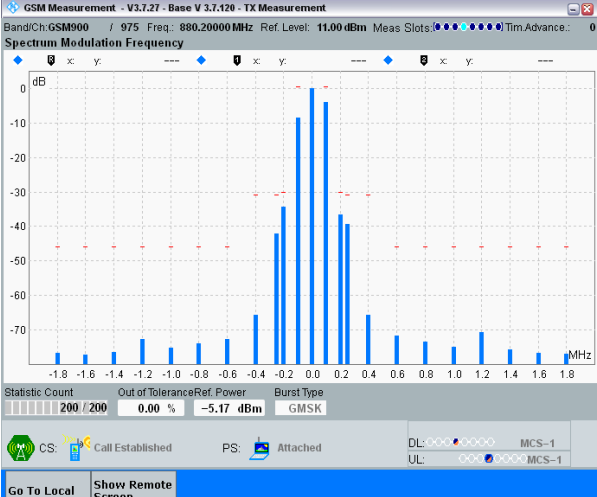
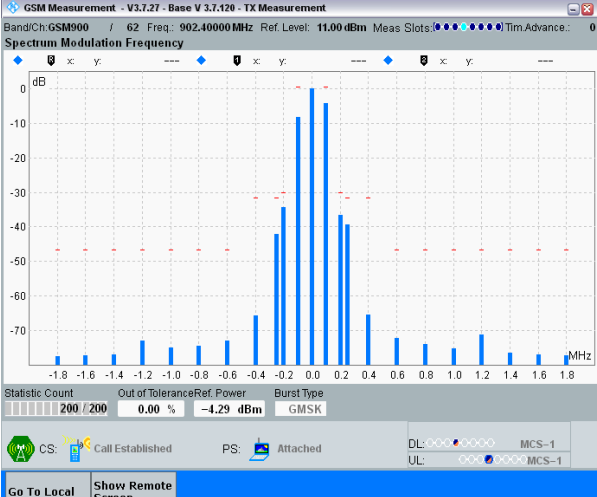
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|--|--|
| <p>NTNV GSM Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -5.16 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>NTNV GSM Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.31 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>NTNV GSM Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.37 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |

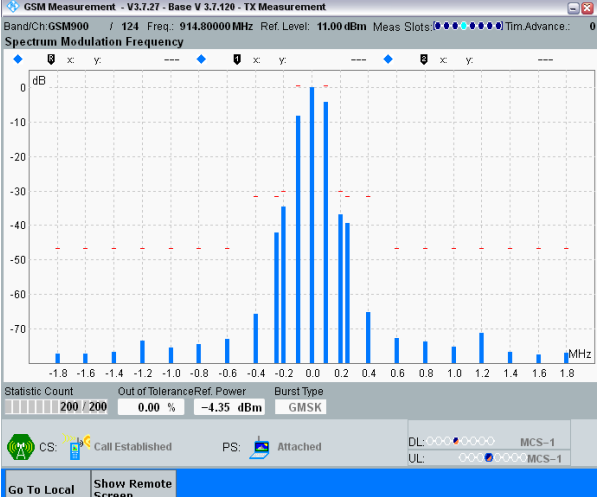
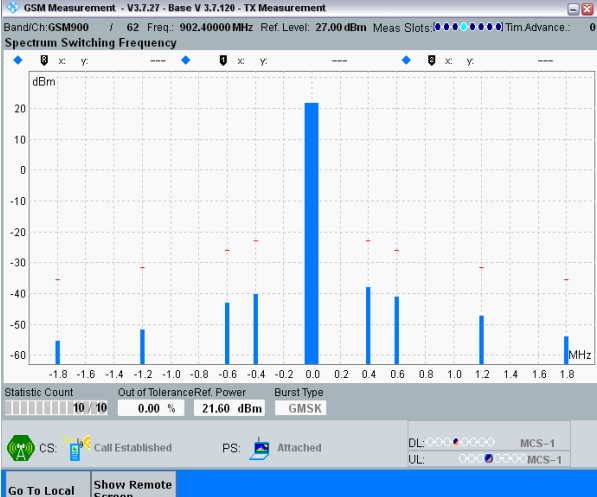
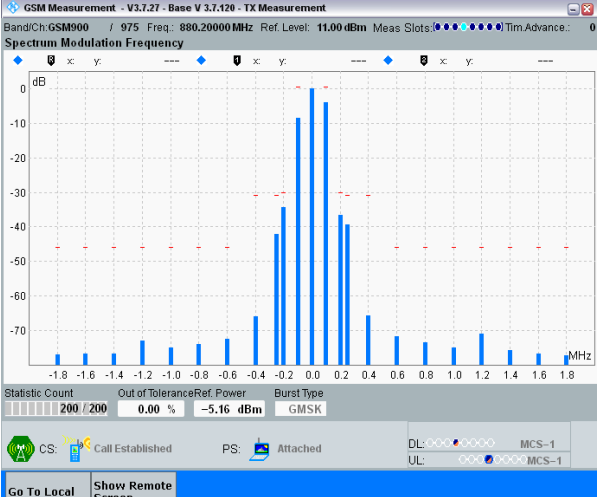
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| <p style="text-align: center;">NTNV GSM Frequency: 902.4 Spectrum Switching</p> |  |
| <p style="text-align: center;">NTNV GSM Frequency: 902.4 Spectrum Switching</p> |  |
| <p style="text-align: center;">NTNV GSM Frequency: 880.2 Spectrum Switching</p> |  |

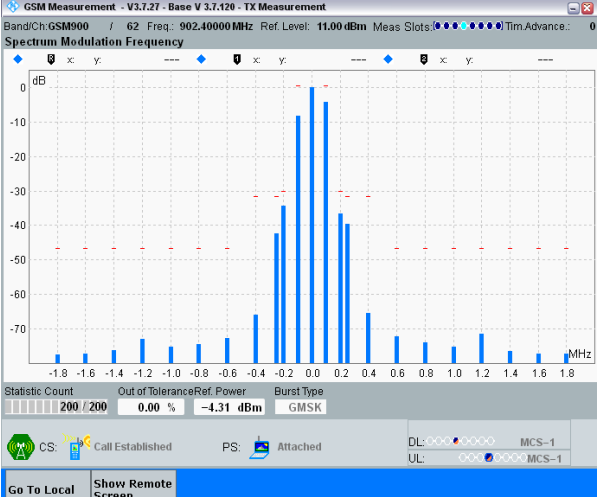
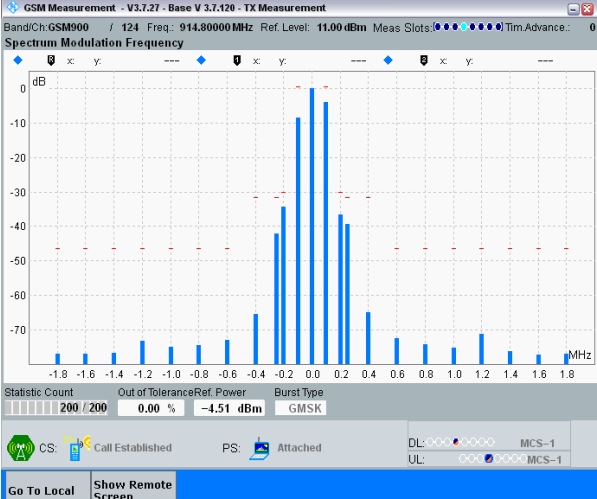
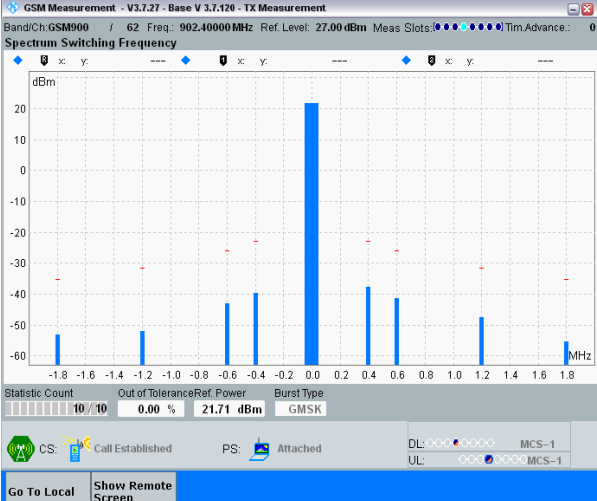
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| <p>NTNV GSM Frequency: 902.4 Spectrum Switching</p> |  |
| <p>NTNV GSM Frequency: 914.8 Spectrum Switching</p> |  |
| <p>HTHV GSM Frequency: 880.2 Spectrum Modulation</p> |  |

| | |
|--|---|
| <p>HTHV GSM Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.27 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>HTHV GSM Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.52 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>HTHV GSM Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 21.70 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |

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|--|--|
| <p>HTLV GSM Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -5.16 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>HTLV GSM Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.34 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>HTLV GSM Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.36 dBm Burst Type: GSMK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |

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|--|--|
| <p>HTLV GSM Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 21.71 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV GSM Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -5.17 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV GSM Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 10 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.29 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |

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|--|--|
| <p>LTHV GSM Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.35 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV GSM Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 21.60 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTLV GSM Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -5.16 dBm Burst Type: GMSK</p> <p>CS: Call Established PS: Attached DL: MCS-1 UL: MCS-1</p> <p>Go To Local Show Remote Screen</p> |

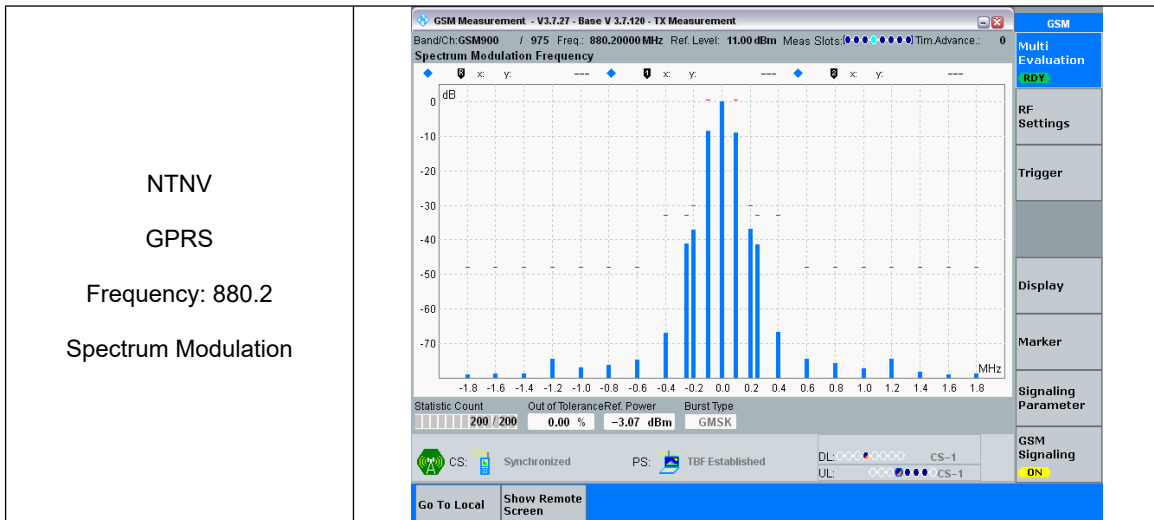
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| <p>LTLV GSM Frequency: 902.4 Spectrum Modulation</p> |  |
| <p>LTLV GSM Frequency: 914.8 Spectrum Modulation</p> |  |
| <p>LTLV GSM Frequency: 902.4 Spectrum Switching</p> |  |

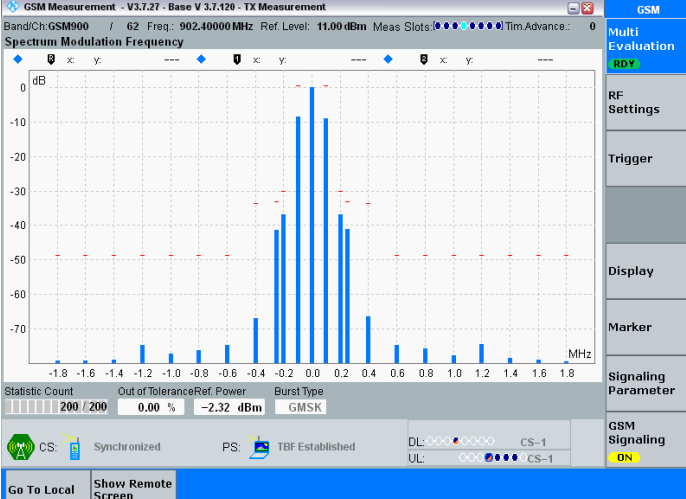
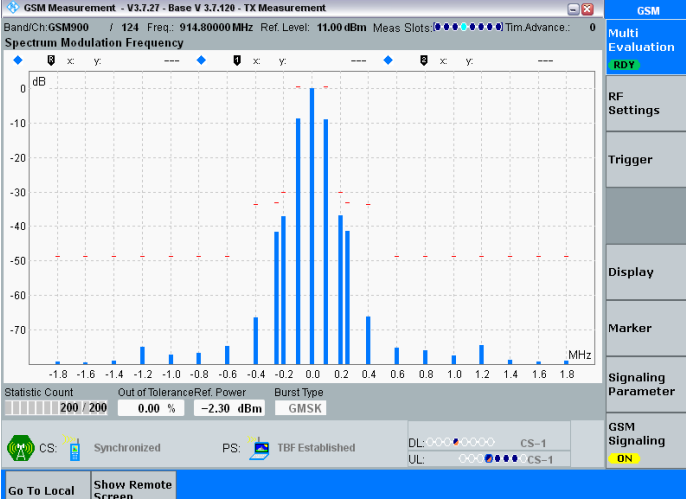
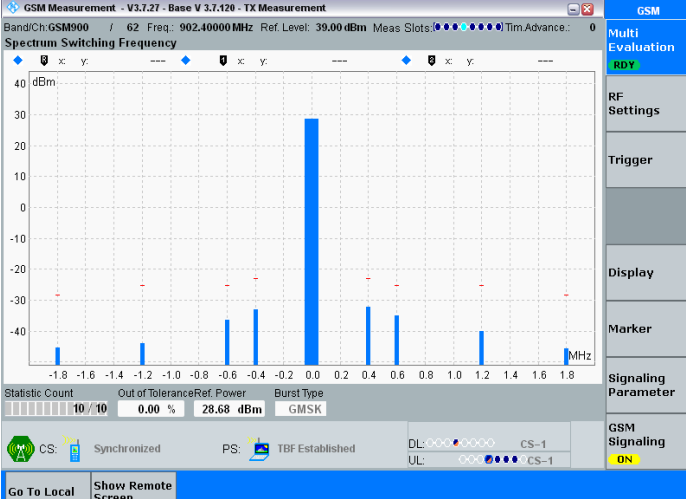
5. Output RF spectrum in GPRS multislot configuration

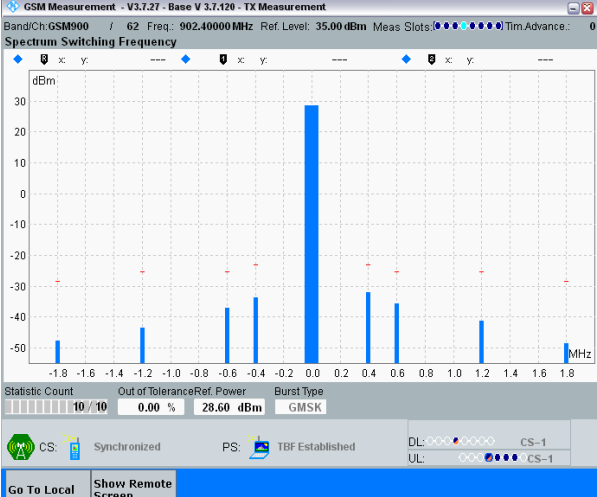
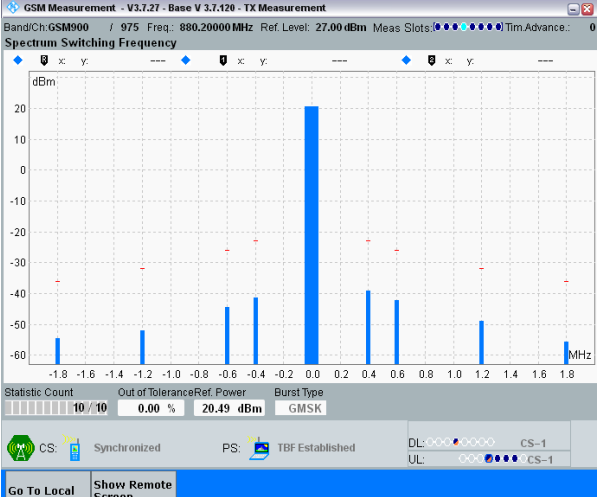
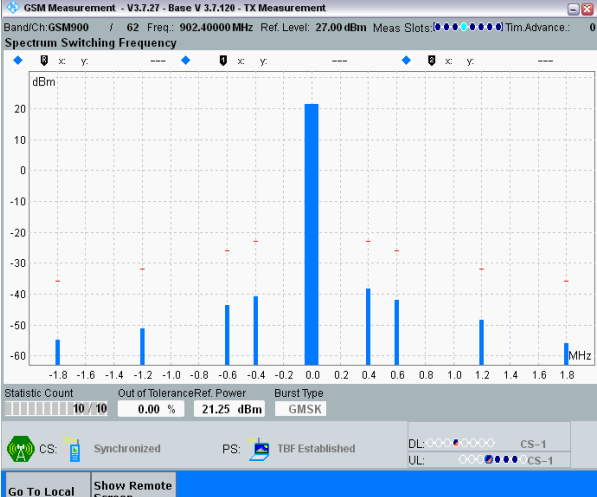
5.1 Test Result

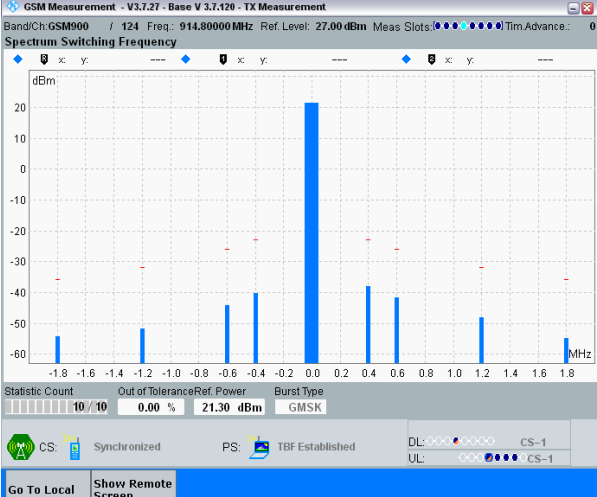
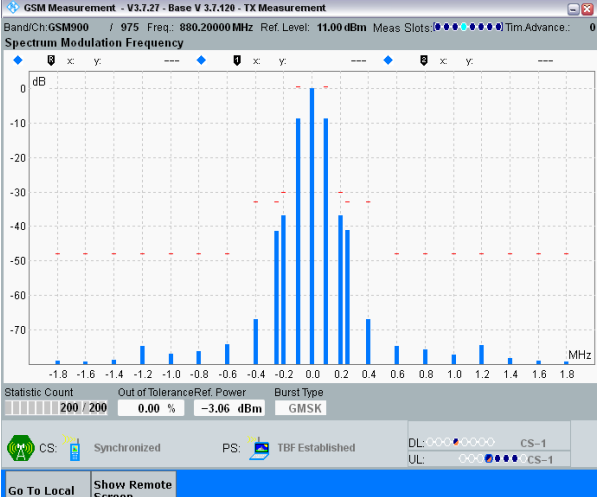
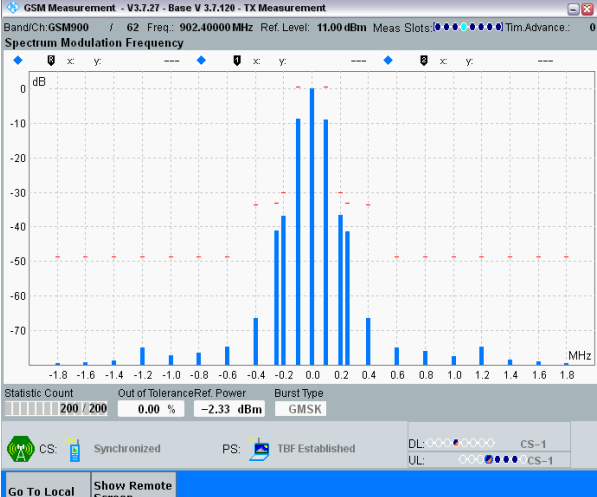
| Test Mode | Test Condition | Case No. | GAMMA | Channel | Verdict |
|-----------|----------------|----------|-------|---------|---------|
| EGSM900 | NTNV | 1 | 03 | MCH | PASS |
| | | | | LCH | PASS |
| | | 2 | 17 | MCH | PASS |
| | | | | HCH | PASS |
| | | | | MCH | PASS |
| | | 3 | 03 | MCH | PASS |
| | | | | MCH | PASS |
| | | | 09 | LCH | PASS |
| | | | | MCH | PASS |
| | HCH | | | PASS | |
| | LCH | | | PASS | |
| | HTHV | 2 | 17 | MCH | PASS |
| | | | | HCH | PASS |
| | | 3 | 09 | MCH | PASS |
| | HTLV | 2 | 17 | LCH | PASS |
| | | | | MCH | PASS |
| | | 3 | 09 | MCH | PASS |
| | | | | MCH | PASS |
| | LTHV | 2 | 17 | LCH | PASS |
| | | | | MCH | PASS |
| | | 3 | 09 | MCH | PASS |
| | | | | MCH | PASS |
| | LTLV | 2 | 17 | LCH | PASS |
| | | | | MCH | PASS |
| 3 | | 09 | MCH | PASS | |

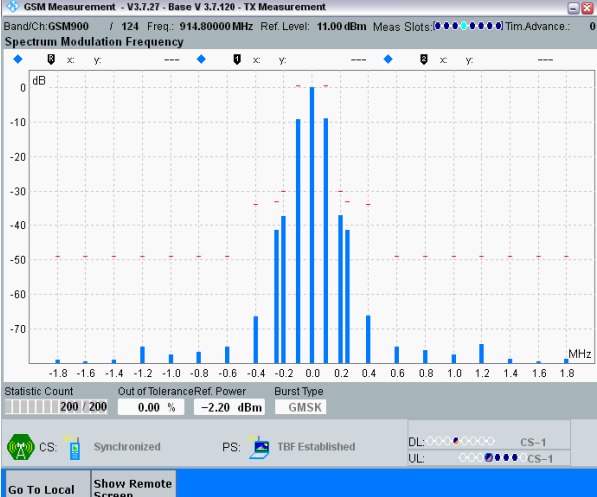
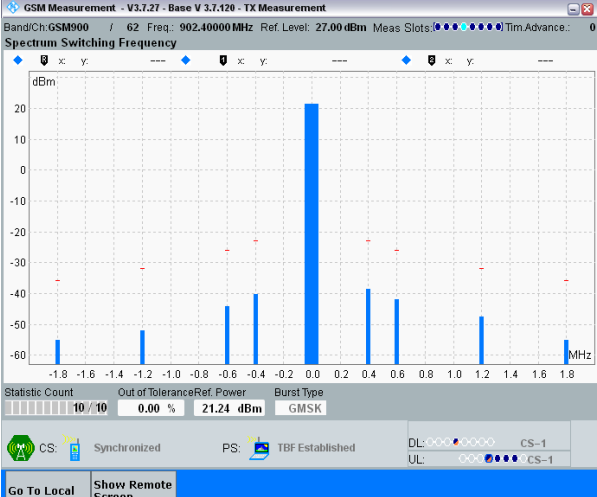
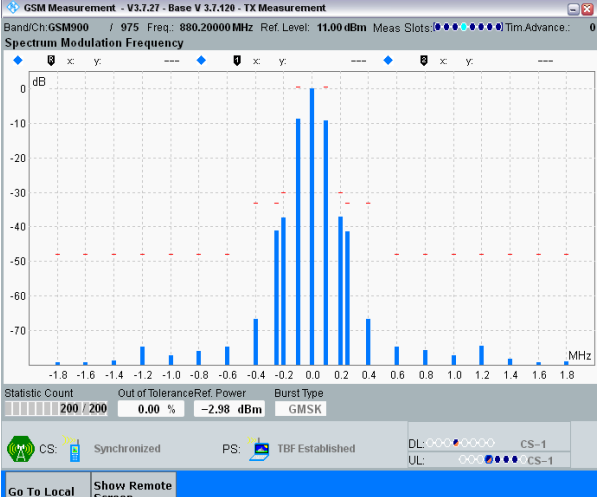
5.2 Test Graph

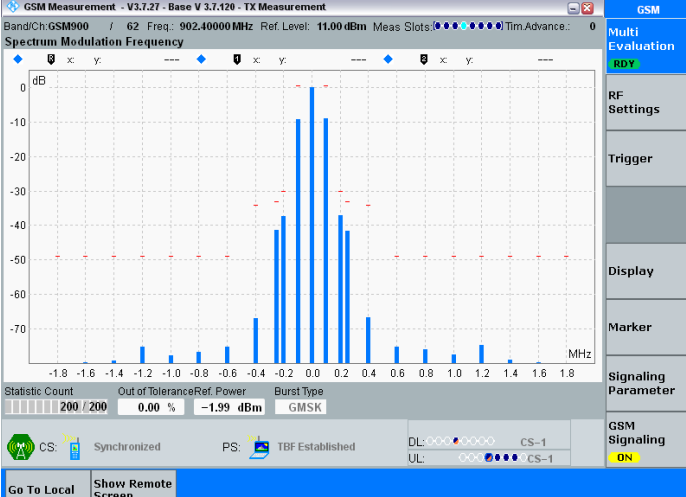
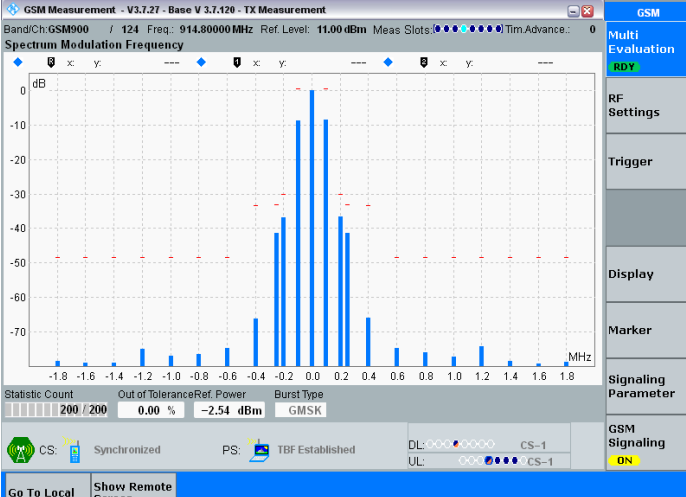
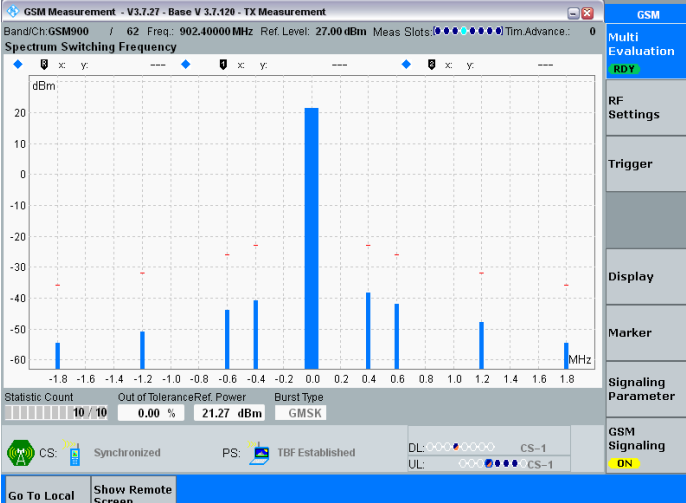


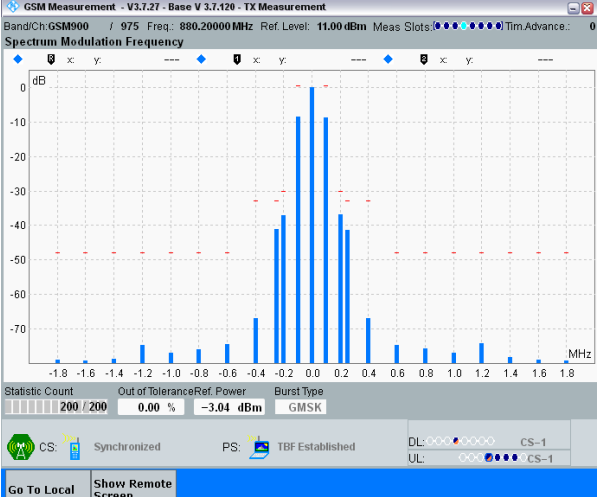
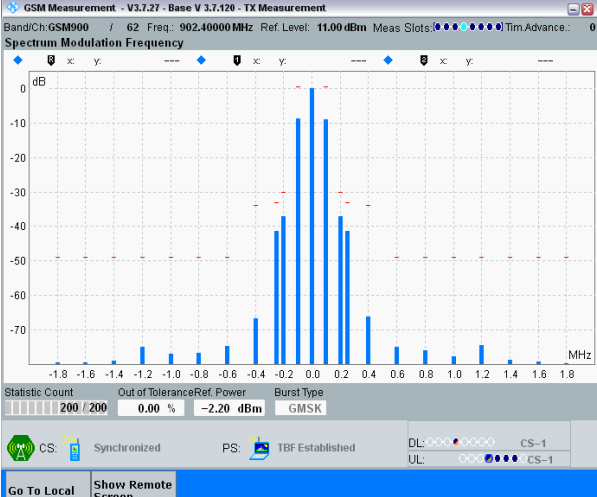
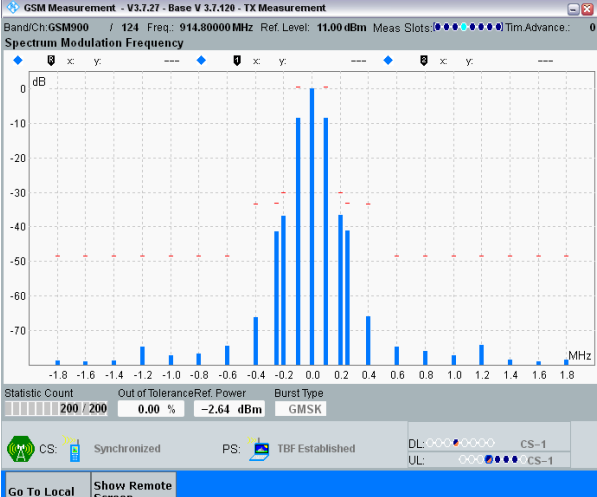
| | |
|---|--|
| <p style="text-align: center;">NTNV GPRS Frequency: 902.4 Spectrum Modulation</p> |  |
| <p style="text-align: center;">NTNV GPRS Frequency: 914.8 Spectrum Modulation</p> |  |
| <p style="text-align: center;">NTNV GPRS Frequency: 902.4 Spectrum Switching</p> |  |

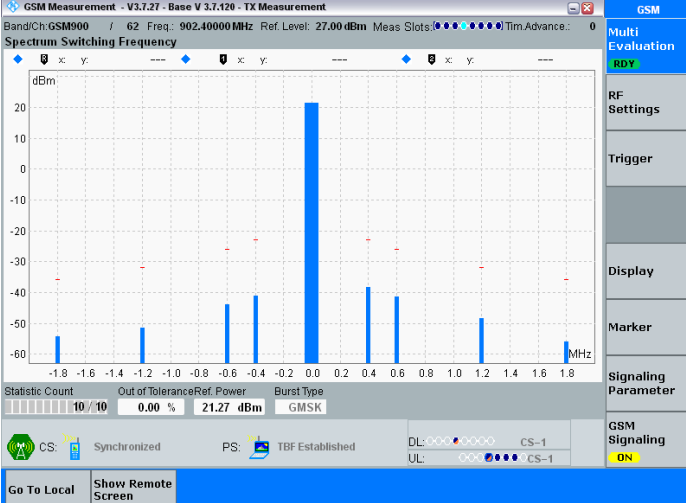
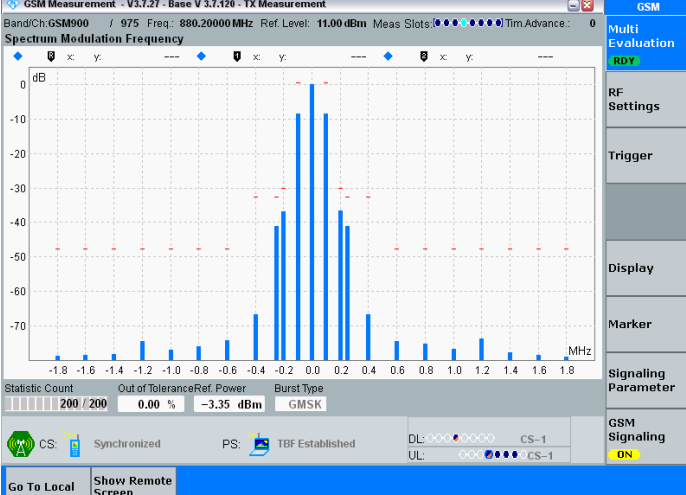
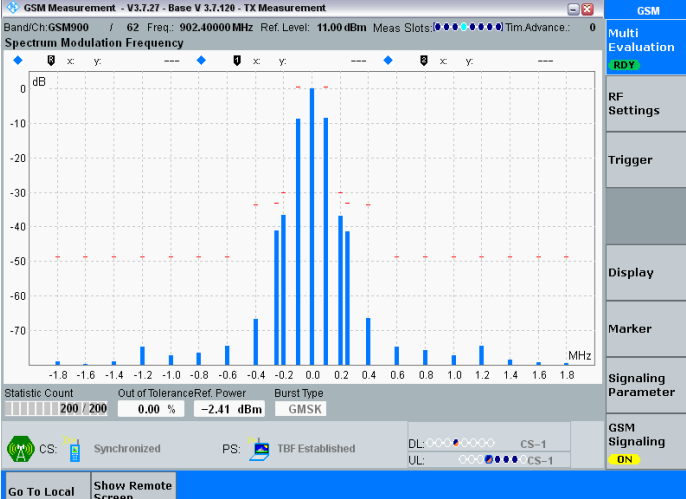
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|--|---|
| <p>NTNV GPRS Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 35.00 dBm Meas Slots: [dots] Tim Advance: 0 Spectrum Switching Frequency dBm -1.8 -1.6 -1.4 -1.2 -1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 MHz Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 28.60 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 Go To Local Show Remote Screen</p> |
| <p>NTNV GPRS Frequency: 880.2 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 27.00 dBm Meas Slots: [dots] Tim Advance: 0 Spectrum Switching Frequency dBm -1.8 -1.6 -1.4 -1.2 -1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 MHz Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 20.49 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 Go To Local Show Remote Screen</p> |
| <p>NTNV GPRS Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: [dots] Tim Advance: 0 Spectrum Switching Frequency dBm -1.8 -1.6 -1.4 -1.2 -1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 MHz Statistic Count: 10/10 Out of Tolerance: 0.00 % Ref. Power: 21.25 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 Go To Local Show Remote Screen</p> |

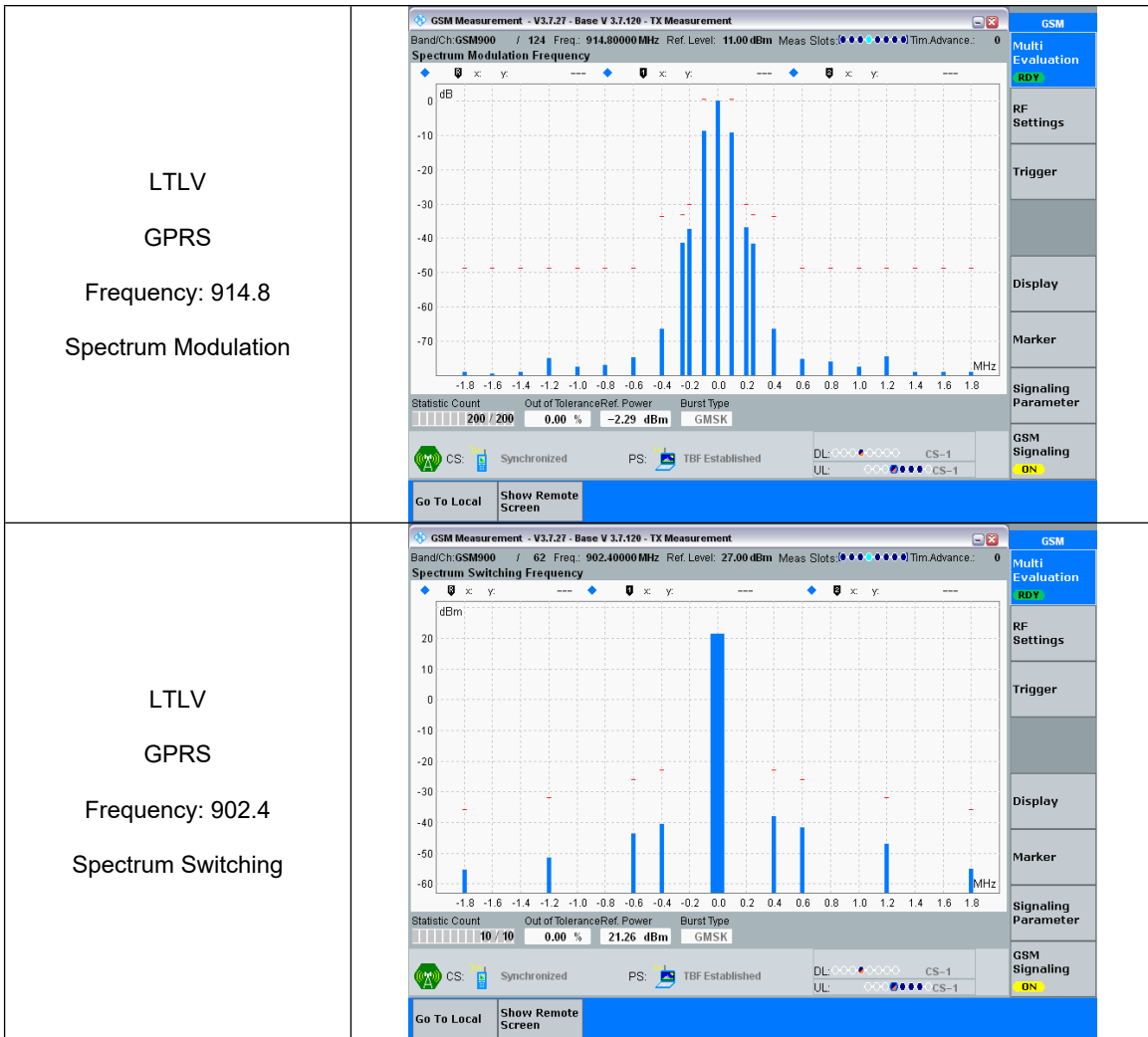
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|--|--|
| <p style="text-align: center;"> NTNV GPRS Frequency: 914.8 Spectrum Switching </p> |  <p> GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 27.00 dBm Meas Slots: [dots] Tim. Advance: 0 Spectrum Switching Frequency Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 21.30 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 GSM Signaling: ON </p> |
| <p style="text-align: center;"> HTHV GPRS Frequency: 880.2 Spectrum Modulation </p> |  <p> GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: [dots] Tim. Advance: 0 Spectrum Modulation Frequency Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.06 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 GSM Signaling: ON </p> |
| <p style="text-align: center;"> HTHV GPRS Frequency: 902.4 Spectrum Modulation </p> |  <p> GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: [dots] Tim. Advance: 0 Spectrum Modulation Frequency Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -2.33 dBm Burst Type: GMSK CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1 GSM Signaling: ON </p> |

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|---|--|
| <p>HTHV GPRS Frequency: 914.8 Spectrum Modulation</p> |  |
| <p>HTHV GPRS Frequency: 902.4 Spectrum Switching</p> |  |
| <p>HTLV GPRS Frequency: 880.2 Spectrum Modulation</p> |  |

| | |
|---|--|
| <p>HTLV GPRS Frequency: 902.4 Spectrum Modulation</p> |  |
| <p>HTLV GPRS Frequency: 914.8 Spectrum Modulation</p> |  |
| <p>HTLV GPRS Frequency: 902.4 Spectrum Switching</p> |  |

| | |
|---|---|
| <p>LTHV GPRS Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.04 dBm Burst Type: GMSK</p> <p>CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV GPRS Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -2.20 dBm Burst Type: GMSK</p> <p>CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV GPRS Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -2.64 dBm Burst Type: GMSK</p> <p>CS: Synchronized PS: TBF Established DL: CS-1 UL: CS-1</p> <p>Go To Local Show Remote Screen</p> |

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| <p>LTHV GPRS Frequency: 902.4 Spectrum Switching</p> |  |
| <p>LTLV GPRS Frequency: 880.2 Spectrum Modulation</p> |  |
| <p>LTLV GPRS Frequency: 902.4 Spectrum Modulation</p> |  |



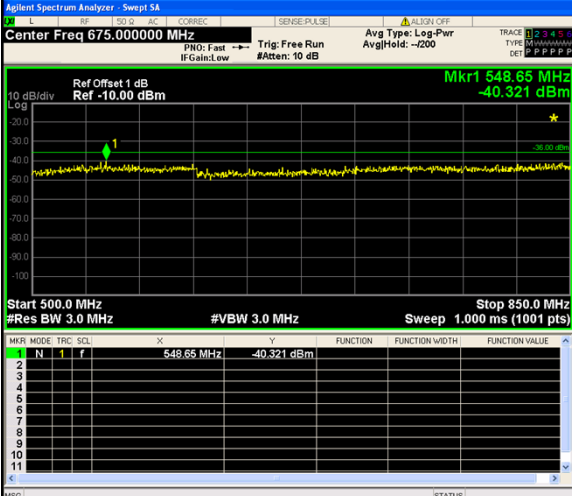
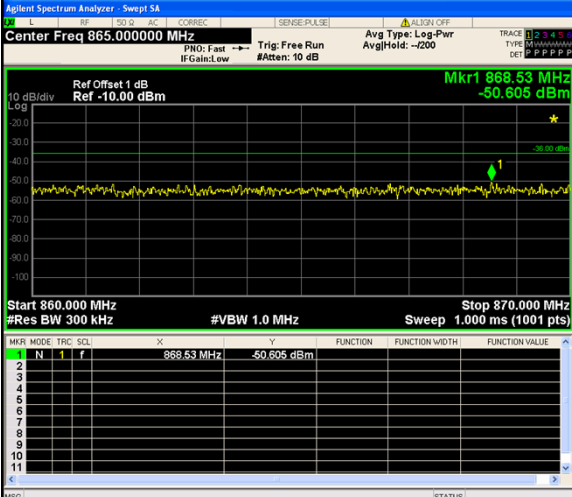
6. Conducted spurious emissions - MS allocated a channel

6.1 Test Result

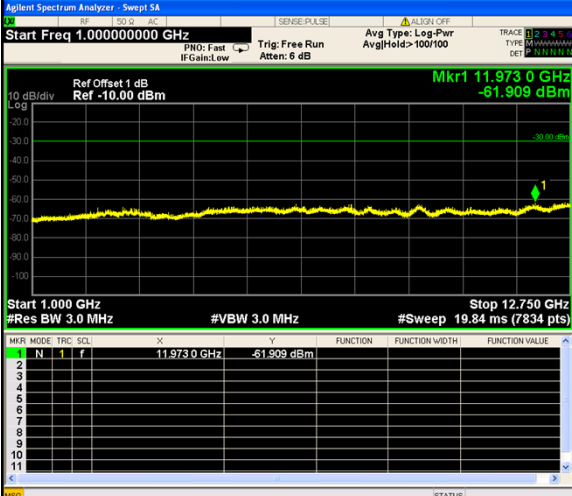
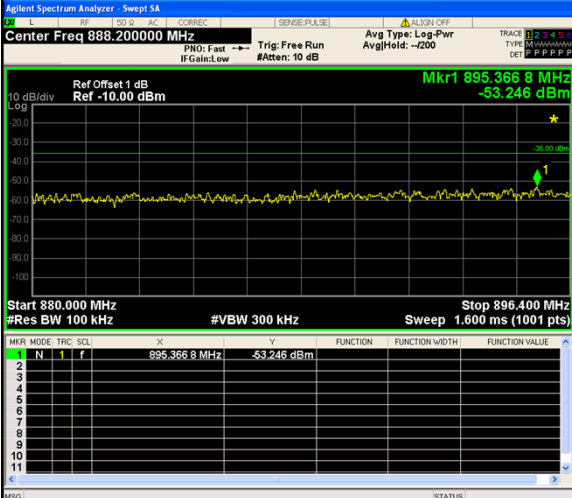
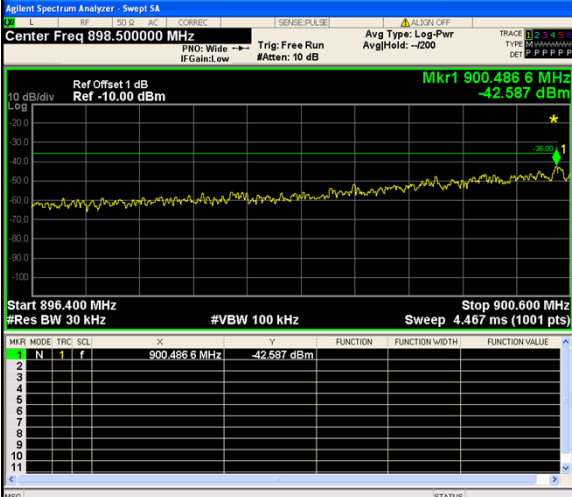
| Test Mode | PCL | Channel | Test Condition | Verdict |
|-----------|-----|---------|----------------|---------|
| EGSM900 | 5 | MCH | NTNV | PASS |

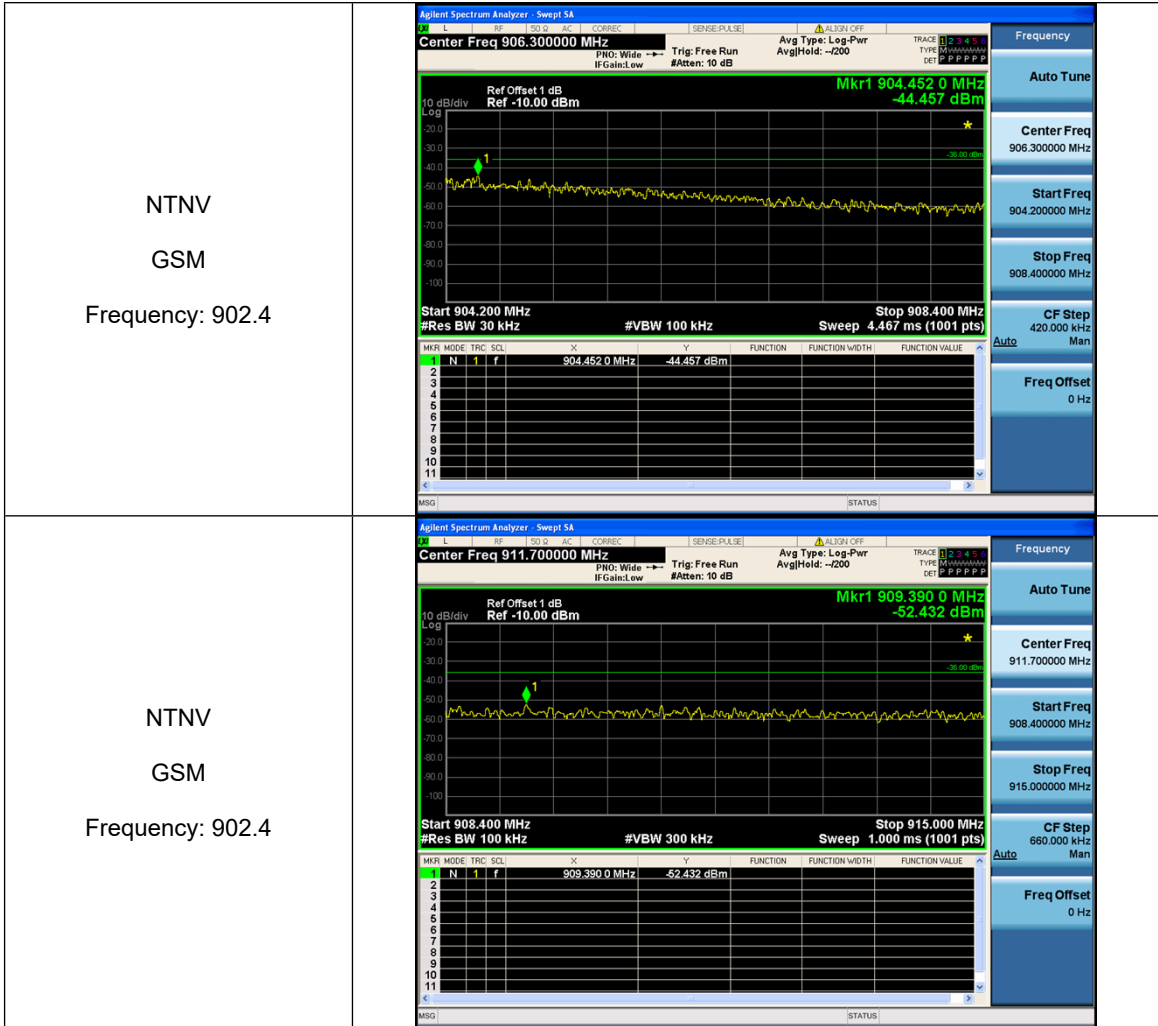
6.2 Test Graph



| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 675.000000 MHz Ref Offset 1 dB Ref -10.00 dBm Mkr1 548.65 MHz -40.321 dBm Start 500.0 MHz #Res BW 3.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts) Stop 850.0 MHz</p> <table border="1" data-bbox="662 520 1214 667"> <thead> <tr> <th>MFR MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>548.65 MHz</td> <td></td> <td></td> <td>-40.321 dBm</td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | MFR MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 548.65 MHz | | | -40.321 dBm | 2 | | | | | | | | 3 | | | | | | | | 4 | | | | | | | | 5 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | | 8 | | | | | | | | 9 | | | | | | | | 10 | | | | | | | | 11 | | | | | | | |
|--|--|----------|-----|------------|----------|----------------|----------------|----------------|----------------|---|---|---|---|------------|--|--|-------------|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|
| MFR MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | N | 1 | f | 548.65 MHz | | | -40.321 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 980.000000 MHz Ref Offset 1 dB Ref -10.00 dBm Mkr1 990.48 MHz -41.280 dBm Start 960.00 MHz #Res BW 3.0 MHz #VBW 3.0 MHz Stop 1.00000 GHz Sweep 1.000 ms (1001 pts)</p> <table border="1" data-bbox="657 1551 1209 1698"> <thead> <tr> <th>MFR MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>990.48 MHz</td> <td></td> <td></td> <td>-41.280 dBm</td> </tr> <tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> | MFR MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 990.48 MHz | | | -41.280 dBm | 2 | | | | | | | | 3 | | | | | | | | 4 | | | | | | | | 5 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | | 8 | | | | | | | | 9 | | | | | | | | 10 | | | | | | | | 11 | | | | | | | |
| MFR MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | N | 1 | f | 990.48 MHz | | | -41.280 dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|--|--|
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Start Freq 1.00000000 GHz</p> <p>Center Freq 6.87500000 GHz</p> <p>Start Freq 1.00000000 GHz</p> <p>Stop Freq 12.75000000 GHz</p> <p>CF Step 1.175000000 GHz</p> <p>Freq Offset 0 Hz</p> |
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 888.200000 MHz</p> <p>Center Freq 888.200000 MHz</p> <p>Start Freq 880.000000 MHz</p> <p>Stop Freq 896.400000 MHz</p> <p>CF Step 1.6400000 MHz</p> <p>Freq Offset 0 Hz</p> |
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA</p> <p>Center Freq 898.500000 MHz</p> <p>Center Freq 898.500000 MHz</p> <p>Start Freq 896.400000 MHz</p> <p>Stop Freq 900.600000 MHz</p> <p>CF Step 420.000 kHz</p> <p>Freq Offset 0 Hz</p> |



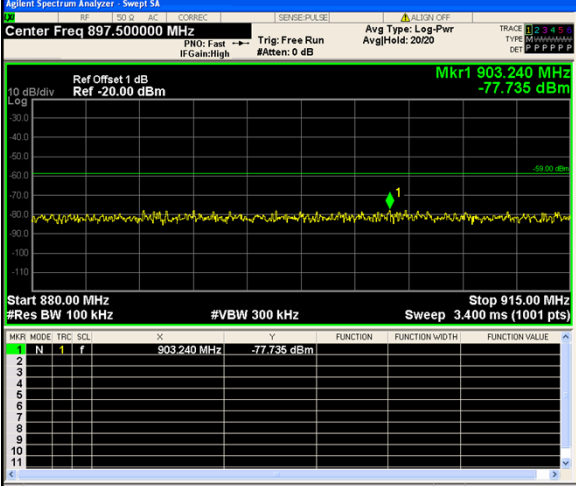
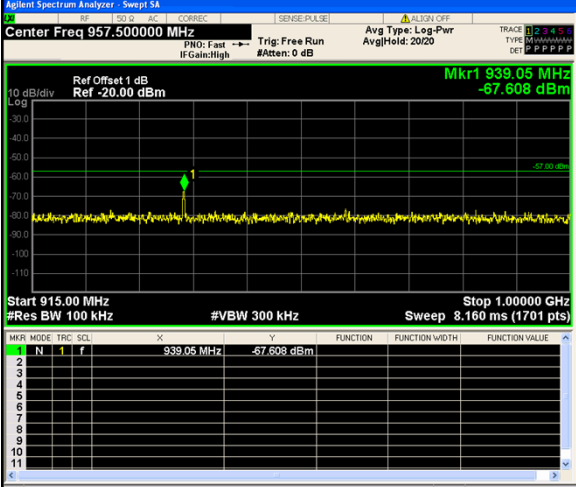
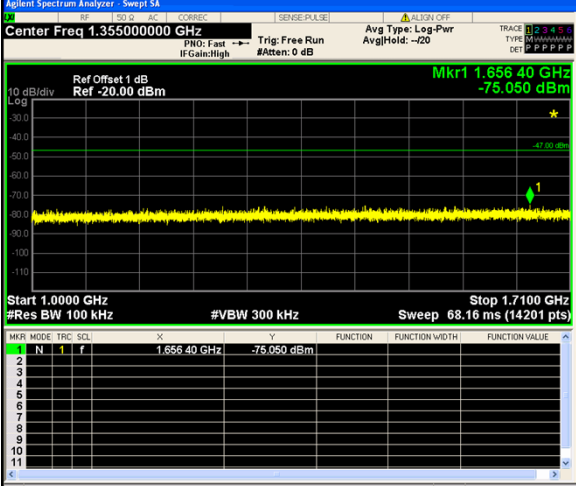
7. Conducted spurious emissions - MS in idle mode

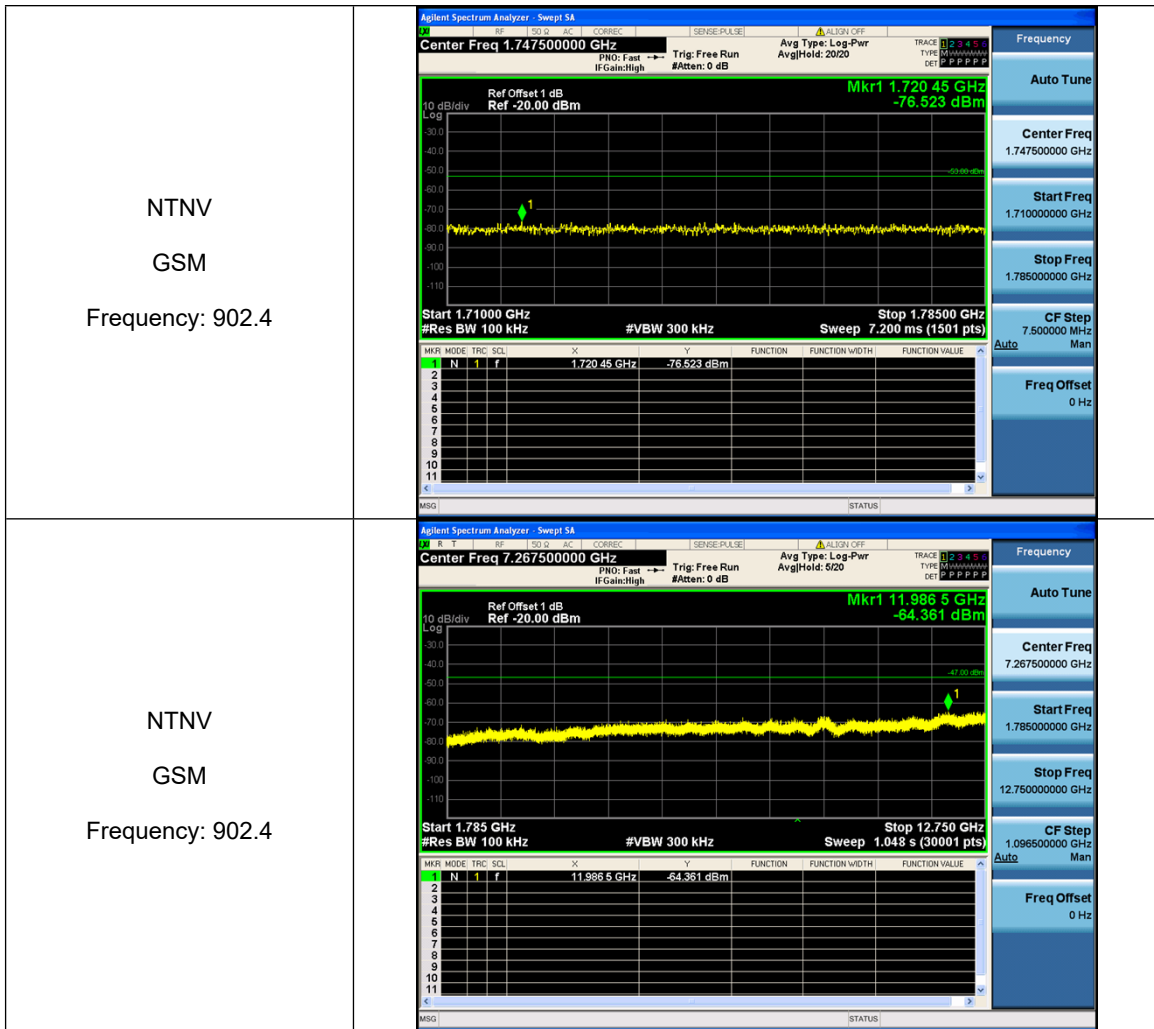
7.1 Test Result

| | | |
|-----------|----------------|---------|
| Test Mode | Test Condition | Verdict |
| EGSM900 | NTNV | PASS |

7.2 Test Graph



| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 897.500000 MHz Ref Offset 1 dB Ref -20.00 dBm Mkr1 903.240 MHz -77.735 dBm Start 880.00 MHz #Res BW 100 kHz #VBW 300 kHz Stop 915.00 MHz Sweep 3.400 ms (1001 pts)</p> <table border="1" data-bbox="657 514 1209 661"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>903.240 MHz</td> <td>-77.735 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Frequency Auto Tune Center Freq 897.500000 MHz Start Freq 880.000000 MHz Stop Freq 915.000000 MHz CF Step 3.500000 MHz Auto Man Freq Offset 0 Hz</p> | MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 903.240 MHz | -77.735 dBm | | | |
|--|--|-----|------|-------------|-------------|----------|----------------|----------------|----------------|----------------|---|---|---|---|-------------|-------------|--|--|--|
| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | | | | | | | | | | | |
| 1 | N | 1 | f | 903.240 MHz | -77.735 dBm | | | | | | | | | | | | | | |
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 957.500000 MHz Ref Offset 1 dB Ref -20.00 dBm Mkr1 939.05 MHz -67.608 dBm Start 915.00 MHz #Res BW 100 kHz #VBW 300 kHz Stop 1.000000 GHz Sweep 3.160 ms (1701 pts)</p> <table border="1" data-bbox="657 1045 1209 1192"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>939.05 MHz</td> <td>-67.608 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Frequency Auto Tune Center Freq 957.500000 MHz Start Freq 915.000000 MHz Stop Freq 1.000000000 GHz CF Step 8.500000 MHz Auto Man Freq Offset 0 Hz</p> | MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 939.05 MHz | -67.608 dBm | | | |
| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | | | | | | | | | | | |
| 1 | N | 1 | f | 939.05 MHz | -67.608 dBm | | | | | | | | | | | | | | |
| <p>NTNV GSM Frequency: 902.4</p> |  <p>Agilent Spectrum Analyzer - Sweep SA Center Freq 1.355000000 GHz Ref Offset 1 dB Ref -20.00 dBm Mkr1 1.65640 GHz -75.050 dBm Start 1.00000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 1.7100 GHz Sweep 68.16 ms (14201 pts)</p> <table border="1" data-bbox="657 1535 1209 1682"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRC</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>1.65640 GHz</td> <td>-75.050 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Frequency Auto Tune Center Freq 1.355000000 GHz Start Freq 1.000000000 GHz Stop Freq 1.710000000 GHz CF Step 71.000000 MHz Auto Man Freq Offset 0 Hz</p> | MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | 1 | N | 1 | f | 1.65640 GHz | -75.050 dBm | | | |
| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE | | | | | | | | | | | |
| 1 | N | 1 | f | 1.65640 GHz | -75.050 dBm | | | | | | | | | | | | | | |



8. Frequency error and Modulation accuracy in EGPRS Configuration

8.1 Test Result

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| | | | | | RMS | Peak | | |
| Reference Frequency 880.2 (MHz) GAMMA=1 | NTNV | 19.53 | 88.02 | PASS | RMS | 0.8 | 5 | PASS |
| | | | | | Peak | 2.09 | | 20 |
| | HTHV | 19.02 | 88.02 | PASS | RMS | 0.8 | 5 | PASS |
| | | | | | Peak | 2.05 | | 20 |
| | HTLV | 19.95 | 88.02 | PASS | RMS | 0.81 | 5 | PASS |
| | | | | | Peak | 2.07 | | 20 |
| LTHV | 20.02 | 88.02 | PASS | RMS | 0.81 | 5 | PASS | |
| | | | | Peak | 2.13 | | 20 | PASS |
| LTLV | 19.6 | 88.02 | PASS | RMS | 0.81 | 5 | PASS | |
| | | | | Peak | 2.1 | | 20 | PASS |
| Vibration | 19.76 | 88.02 | PASS | RMS | 0.81 | 5 | PASS | |
| | | | | Peak | 2.1 | | 20 | PASS |

| EGSM900 | Test | Frequency | Limit | Result | Phase Error | Limit | Result |
|---------|------|-----------|-------|--------|-------------|-------|--------|
|---------|------|-----------|-------|--------|-------------|-------|--------|

| | Condition | Error(Hz) | (Hz) | | (degree) | | (degree) | |
|---|-----------|-----------|-------|------|----------|------|----------|------|
| | | | | | | | | |
| Reference Frequency 880.2 (MHz) GAMMA=1 | NTNV | 20.47 | 88.02 | PASS | RMS | 1.1 | 5 | PASS |
| | | | | | Peak | 2.71 | 20 | PASS |
| | HTHV | 20.4 | 88.02 | PASS | RMS | 1.1 | 5 | PASS |
| | | | | | Peak | 2.69 | 20 | PASS |
| | HTLV | 20.86 | 88.02 | PASS | RMS | 1.1 | 5 | PASS |
| | | | | | Peak | 2.71 | 20 | PASS |
| | LTHV | 20.63 | 88.02 | PASS | RMS | 1.1 | 5 | PASS |
| | | | | | Peak | 2.69 | 20 | PASS |
| | LTLV | 20.63 | 88.02 | PASS | RMS | 1.09 | 5 | PASS |
| | | | | | Peak | 2.75 | 20 | PASS |
| | Vibration | 20.18 | 88.02 | PASS | RMS | 1.1 | 5 | PASS |
| | | | | | Peak | 2.67 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|-------------------|------------------------|---------------|--------|-------------------------|------|-------------------|--------|
| | | | | | | | | |
| Reference Frequency 880.2 (MHz) GAMMA=3 | NTNV | 19.18 | 88.02 | PASS | RMS | 0.74 | 5 | PASS |
| | | | | | Peak | 1.89 | 20 | PASS |
| | HTHV | 22.21 | 88.02 | PASS | RMS | 0.75 | 5 | PASS |
| | | | | | Peak | 1.92 | 20 | PASS |
| | HTLV | 19.21 | 88.02 | PASS | RMS | 0.76 | 5 | PASS |
| | | | | | Peak | 1.93 | 20 | PASS |
| | LTHV | 19.57 | 88.02 | PASS | RMS | 0.75 | 5 | PASS |
| | | | | | Peak | 1.91 | 20 | PASS |
| | LTLV | 18.82 | 88.02 | PASS | RMS | 0.74 | 5 | PASS |
| | | | | | Peak | 1.88 | 20 | PASS |
| | Vibration | 19.31 | 88.02 | PASS | RMS | 0.75 | 5 | PASS |
| | | | | | Peak | 1.88 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|-------------------|------------------------|---------------|--------|-------------------------|------|-------------------|--------|
| | | | | | | | | |
| Reference Frequency 902.4 (MHz) GAMMA=1 | NTNV | 25.34 | 90.24 | PASS | RMS | 0.95 | 5 | PASS |
| | | | | | Peak | 2.53 | 20 | PASS |
| | HTHV | 25.28 | 90.24 | PASS | RMS | 0.96 | 5 | PASS |
| | | | | | Peak | 2.57 | 20 | PASS |
| | HTLV | 24.8 | 90.24 | PASS | RMS | 0.96 | 5 | PASS |
| | | | | | Peak | 2.6 | 20 | PASS |
| | LTHV | 23.76 | 90.24 | PASS | RMS | 0.97 | 5 | PASS |
| | | | | | Peak | 2.61 | 20 | PASS |
| | LTLV | 21.66 | 90.24 | PASS | RMS | 0.97 | 5 | PASS |
| | | | | | Peak | 2.62 | 20 | PASS |
| | Vibration | 26.67 | 90.24 | PASS | RMS | 0.96 | 5 | PASS |
| | | | | | Peak | 2.59 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|-------------------|------------------------|---------------|--------|-------------------------|------|-------------------|--------|
| | | | | | | | | |
| Reference Frequency 902.4 (MHz) GAMMA=1 | NTNV | 26.38 | 90.24 | PASS | RMS | 1.16 | 5 | PASS |
| | | | | | Peak | 3.06 | 20 | PASS |
| | HTHV | 23.79 | 90.24 | PASS | RMS | 1.15 | 5 | PASS |
| | | | | | Peak | 3.06 | 20 | PASS |
| | HTLV | 23.92 | 90.24 | PASS | RMS | 1.16 | 5 | PASS |
| | | | | | Peak | 3.13 | 20 | PASS |
| | LTHV | 23.67 | 90.24 | PASS | RMS | 1.16 | 5 | PASS |
| | | | | | Peak | 3.09 | 20 | PASS |
| | LTLV | 28.96 | 90.24 | PASS | RMS | 1.17 | 5 | PASS |

| | | | | | | | | |
|--|-----------|-------|-------|------|------|------|----|------|
| | | | | | Peak | 3.11 | 20 | PASS |
| | Vibration | 25.15 | 90.24 | PASS | RMS | 1.16 | 5 | PASS |
| | | | | | Peak | 3.07 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| Reference Frequency 902.4 (MHz) GAMMA=3 | NTNV | 24.28 | 90.24 | PASS | RMS | 0.89 | 5 | PASS |
| | | | | | Peak | 2.43 | 20 | PASS |
| | HTHV | 29.83 | 90.24 | PASS | RMS | 0.87 | 5 | PASS |
| | | | | | Peak | 2.31 | 20 | PASS |
| | HTLV | 28.02 | 90.24 | PASS | RMS | 0.86 | 5 | PASS |
| | | | | | Peak | 2.28 | 20 | PASS |
| | LTHV | 26.05 | 90.24 | PASS | RMS | 0.87 | 5 | PASS |
| | | | | | Peak | 2.3 | 20 | PASS |
| | LTLV | 21.63 | 90.24 | PASS | RMS | 0.88 | 5 | PASS |
| | | | | | Peak | 2.3 | 20 | PASS |
| | Vibration | 22.79 | 90.24 | PASS | RMS | 0.86 | 5 | PASS |
| | | | | | Peak | 2.26 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| Reference Frequency 914.8 (MHz) GAMMA=1 | NTNV | 25.8 | 91.48 | PASS | RMS | 0.78 | 5 | PASS |
| | | | | | Peak | 2.03 | 20 | PASS |
| | HTHV | 23.18 | 91.48 | PASS | RMS | 0.79 | 5 | PASS |
| | | | | | Peak | 2.05 | 20 | PASS |
| | HTLV | 24.41 | 91.48 | PASS | RMS | 0.77 | 5 | PASS |
| | | | | | Peak | 2.01 | 20 | PASS |
| | LTHV | 23.86 | 91.48 | PASS | RMS | 0.77 | 5 | PASS |
| | | | | | Peak | 1.98 | 20 | PASS |
| | LTLV | 24.41 | 91.48 | PASS | RMS | 0.78 | 5 | PASS |
| | | | | | Peak | 2 | 20 | PASS |
| | Vibration | 25.34 | 91.48 | PASS | RMS | 0.78 | 5 | PASS |
| | | | | | Peak | 1.99 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| Reference Frequency 914.8 (MHz) GAMMA=1 | NTNV | 12.46 | 91.48 | PASS | RMS | 1.19 | 5 | PASS |
| | | | | | Peak | 3.04 | 20 | PASS |
| | HTHV | 25.83 | 91.48 | PASS | RMS | 1.06 | 5 | PASS |
| | | | | | Peak | 2.59 | 20 | PASS |
| | HTLV | 23.99 | 91.48 | PASS | RMS | 1.05 | 5 | PASS |
| | | | | | Peak | 2.56 | 20 | PASS |
| | LTHV | 24.34 | 91.48 | PASS | RMS | 1.05 | 5 | PASS |
| | | | | | Peak | 2.59 | 20 | PASS |
| | LTLV | 24.41 | 91.48 | PASS | RMS | 1.08 | 5 | PASS |
| | | | | | Peak | 2.55 | 20 | PASS |
| | Vibration | 22.63 | 91.48 | PASS | RMS | 1.05 | 5 | PASS |
| | | | | | Peak | 2.62 | 20 | PASS |

| EGSM900 | Test Condition | Frequency Error(Hz) | Limit (Hz) | Result | Phase Error (degree) | | Limit (degree) | Result |
|---------------------|----------------|---------------------|------------|--------|----------------------|------|----------------|--------|
| Reference Frequency | NTNV | 20.4 | 91.48 | PASS | RMS | 0.7 | 5 | PASS |
| | | | | | Peak | 1.73 | 20 | PASS |
| | HTHV | 22.89 | 91.48 | PASS | RMS | 0.7 | 5 | PASS |

| | | | | | | | | | |
|-------------------------------|-----------|-------|-------|------|------|------|------|------|------|
| 914.8 (MHz) GAMMA=3 | HTLV | 21.99 | 91.48 | PASS | Peak | 1.74 | 20 | PASS | |
| | | | | | RMS | 0.69 | 5 | PASS | |
| | LTHV | 21.11 | 91.48 | PASS | Peak | 1.75 | 20 | PASS | |
| | | | | | RMS | 0.69 | 5 | PASS | |
| | LTLV | 19.98 | 91.48 | PASS | Peak | 1.73 | 20 | PASS | |
| | | | | | RMS | 0.7 | 5 | PASS | |
| | Vibration | 21.7 | 91.48 | PASS | Peak | 1.75 | 20 | PASS | |
| | | | | | RMS | 0.69 | 5 | PASS | |
| | | | | | | Peak | 1.72 | 20 | PASS |

9. Frequency error under multipath and interference conditions in EGPRS Configuration

9.1 Test Result

| EGSM900 | Test Condition | Fading Set | Frequency error(Hz) | | | Limit (Hz) | Verdict |
|----------------------|----------------|------------|---------------------|---------------|-----------------|------------|---------|
| | | | LCH 880.2MHz | LCH 902MHz | LCH 914.8MHz | | |
| EGSM900 PCL=3 | NTNV | RA250 | 19.57 | 20.6 | 16.21 | ±300 | PASS |
| | | HT100 | 20.73 | 20.63 | 18.21 | ±180 | PASS |
| | | TU50 | 20.11 | 20.66 | 19.02 | ±160 | PASS |
| | | TUlow | 16.82 | 30.99 | 17.21 | ±230 | PASS |
| | HTHV | RA250 | 22.47 | 23.47 | 17.95 | ±300 | PASS |
| | | HT100 | 15.76 | 23.83 | 15.72 | ±180 | PASS |
| | | TU50 | 22.02 | 26.57 | 17.37 | ±160 | PASS |
| | | TUlow | 18.69 | 25.96 | 19.47 | ±230 | PASS |
| | HTLV | RA250 | 20.79 | 24.02 | 18.05 | ±300 | PASS |
| | | HT100 | 18.98 | 21.7 | 17.43 | ±180 | PASS |
| | | TU50 | 22.89 | 22.18 | 18.24 | ±160 | PASS |
| | | TUlow | 16.66 | 24.41 | 19.47 | ±230 | PASS |
| | LTHV | RA250 | 20.7 | 27.57 | 17.53 | ±300 | PASS |
| | | HT100 | 19.98 | 26.25 | 16.72 | ±180 | PASS |
| | | TU50 | 20.82 | 26.76 | 17.08 | ±160 | PASS |
| | | TUlow | 16.69 | 23.18 | 17.85 | ±230 | PASS |
| | LTLV | RA250 | 18.73 | 23.41 | 19.5 | ±300 | PASS |
| | | HT100 | 20.11 | 21.31 | 18.69 | ±180 | PASS |
| | | TU50 | 18.56 | 22.05 | 17.72 | ±160 | PASS |
| | | TUlow | 16.34 | 28.22 | 17.34 | ±230 | PASS |

10. Output RF spectrum in EGPRS configuration

10.1 Test Result

| Test Mode | Test Condition | Case No. | PCL | Channel | Verdict | |
|-----------|----------------|----------|-----|---------|---------|------|
| EGSM900 | NTNV | 1 | 03 | MCH | PASS | |
| | | | | LCH | PASS | |
| | | 2 | 17 | MCH | PASS | |
| | | | | HCH | PASS | |
| | | 3 | 03 | MCH | PASS | |
| | | | | MCH | PASS | |
| | | | 09 | LCH | PASS | |
| | | | | MCH | PASS | |
| | | HTHV | 2 | 17 | HCH | PASS |
| | | | | | LCH | PASS |

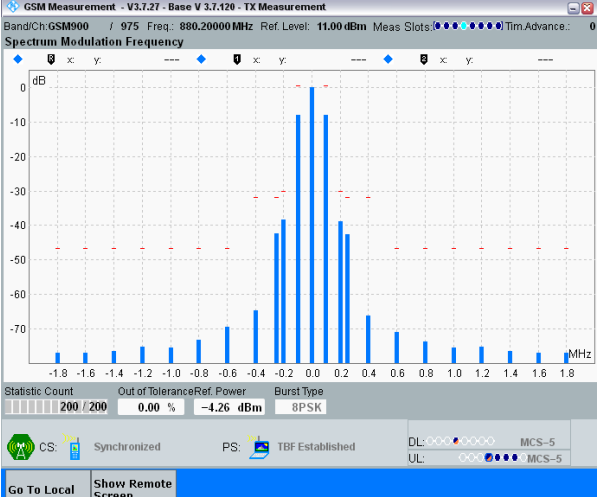
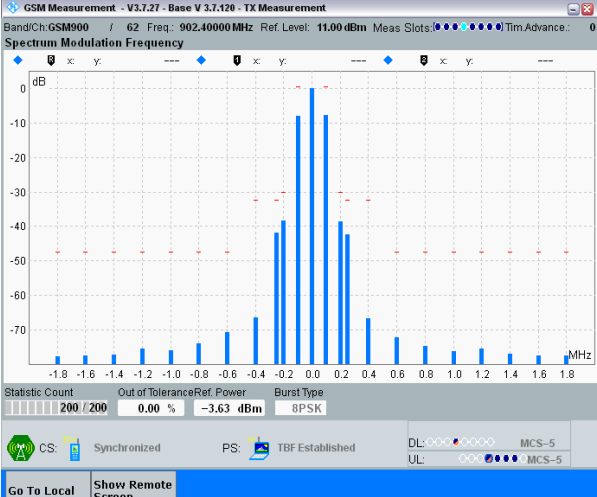
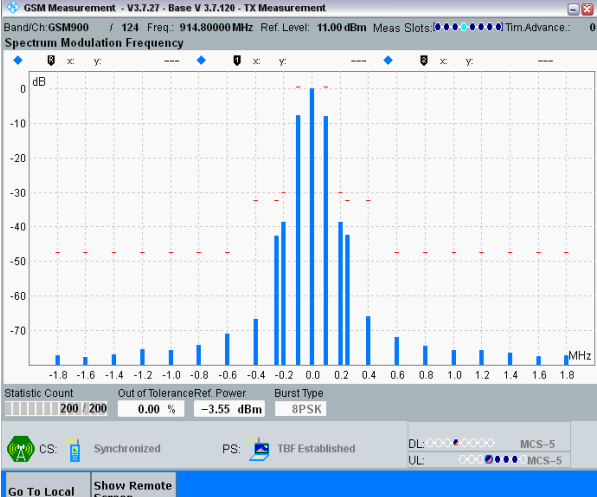
| | | | | | |
|--|------|---|----|-----|------|
| | HTLV | 3 | 09 | MCH | PASS |
| | | | | HCH | PASS |
| | | | | MCH | PASS |
| | | 2 | 17 | LCH | PASS |
| | | | | MCH | PASS |
| | | | | HCH | PASS |
| | LTHV | 3 | 09 | MCH | PASS |
| | | | | LCH | PASS |
| | | | | MCH | PASS |
| | LTLV | 2 | 17 | LCH | PASS |
| | | | | MCH | PASS |
| | | | | HCH | PASS |
| | | 3 | 09 | MCH | PASS |

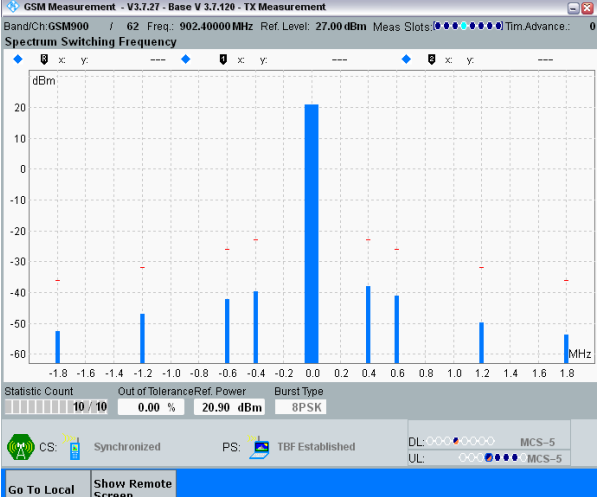
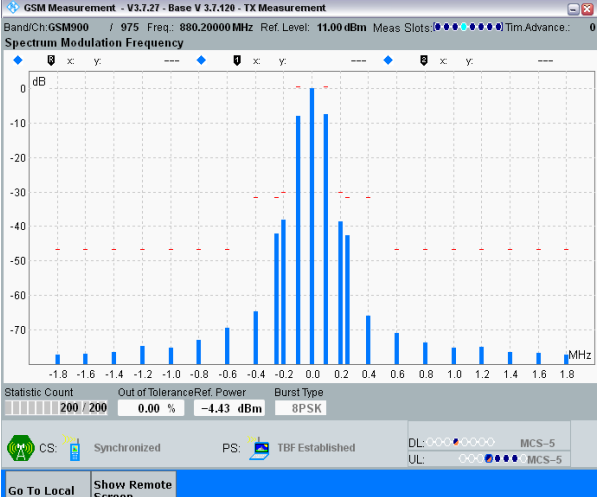
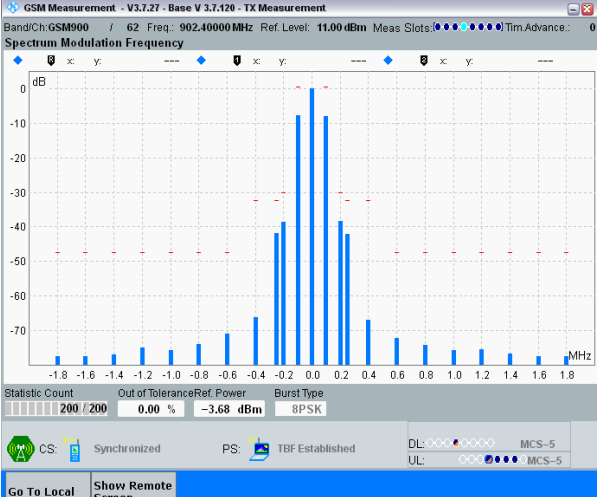
10.2 Test Graph

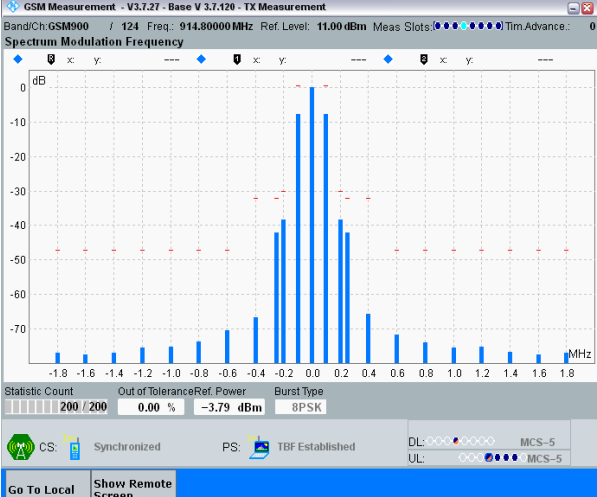
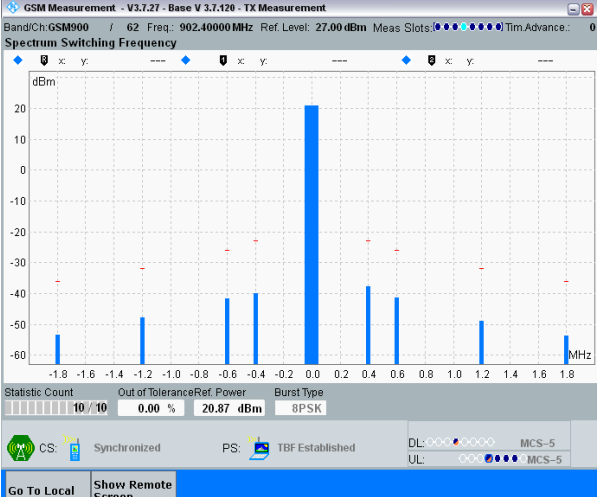
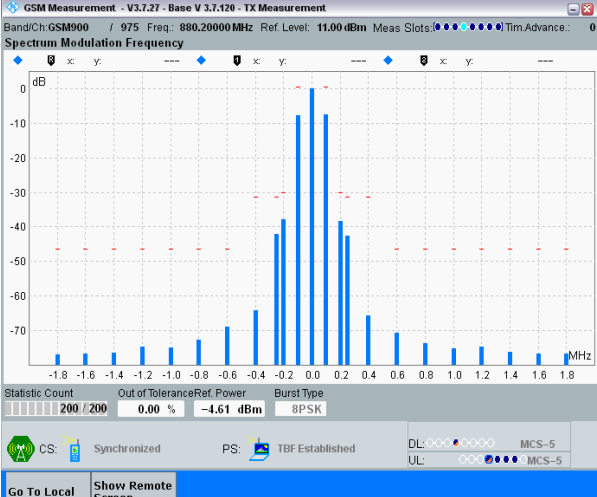
| | |
|--|--|
| <p>NTNV EGPRS Frequency: 880.2 Spectrum Modulation</p> | <p>GSM Measurement - V3.7.27 - Base V 3.7.120 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim. Advance: 0 Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.23 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Multi Evaluation: RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>GSM Signaling: ON</p> <p>Go To Local Show Remote Screen</p> |
| <p>NTNV EGPRS Frequency: 902.4 Spectrum Modulation</p> | <p>GSM Measurement - V3.7.27 - Base V 3.7.120 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 0 Tim. Advance: 0 Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.66 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Multi Evaluation: RDY</p> <p>RF Settings</p> <p>Trigger</p> <p>Display</p> <p>Marker</p> <p>Signaling Parameter</p> <p>GSM Signaling: ON</p> <p>Go To Local Show Remote Screen</p> |

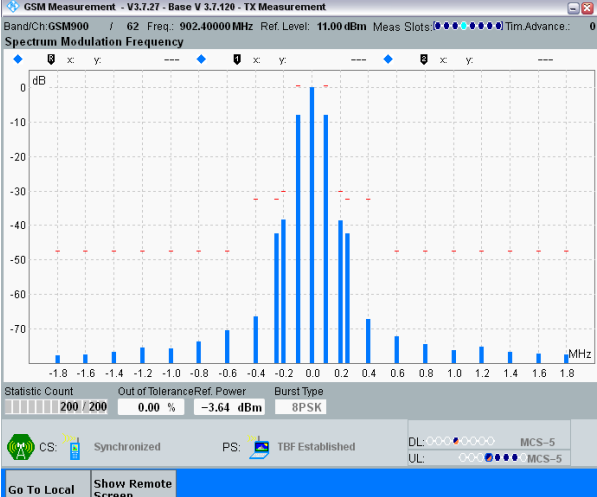
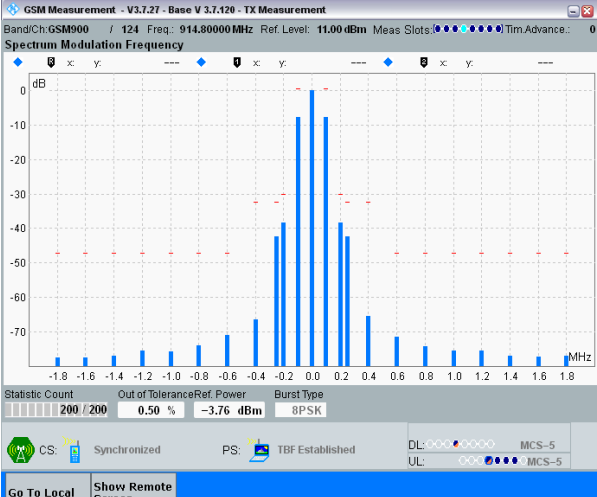
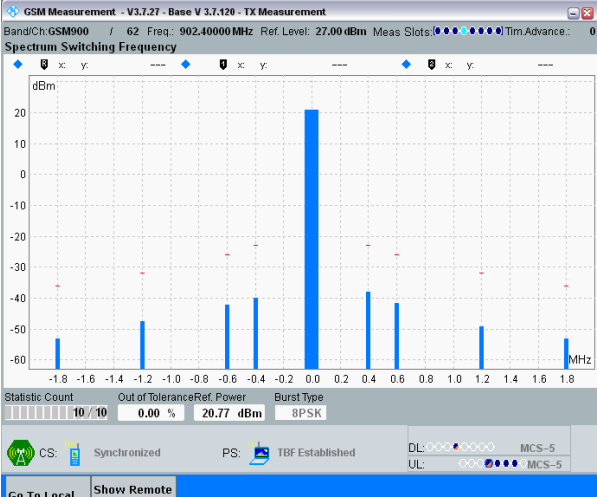
| | |
|--|--|
| <p style="text-align: center;">NTNV EGPRS Frequency: 914.8 Spectrum Modulation</p> | |
| <p style="text-align: center;">NTNV EGPRS Frequency: 902.4 Spectrum Switching</p> | |
| <p style="text-align: center;">NTNV EGPRS Frequency: 902.4 Spectrum Switching</p> | |

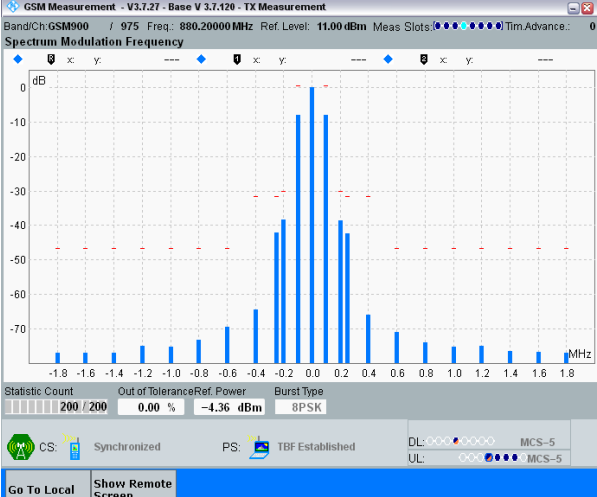
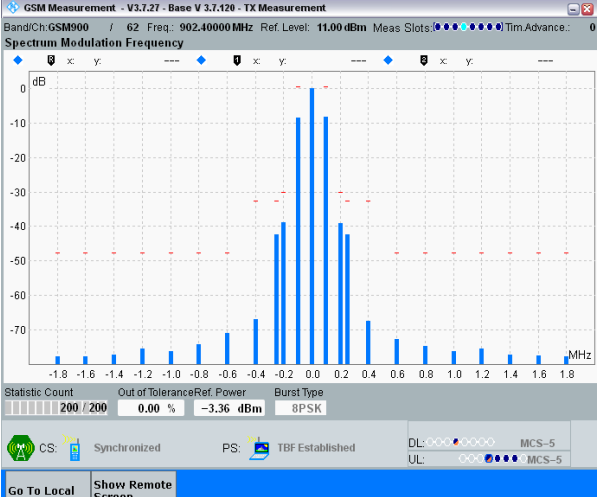
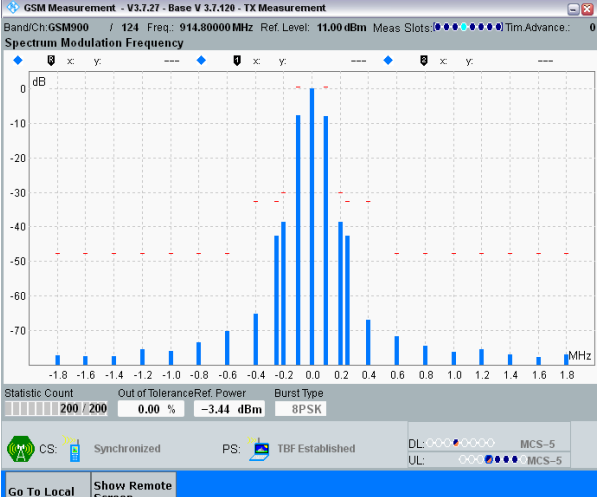
| | |
|---|--|
| <p style="text-align: center;">NTNV EGPRS Frequency: 880.2 Spectrum Switching</p> | |
| <p style="text-align: center;">NTNV EGPRS Frequency: 902.4 Spectrum Switching</p> | |
| <p style="text-align: center;">NTNV EGPRS Frequency: 914.8 Spectrum Switching</p> | |

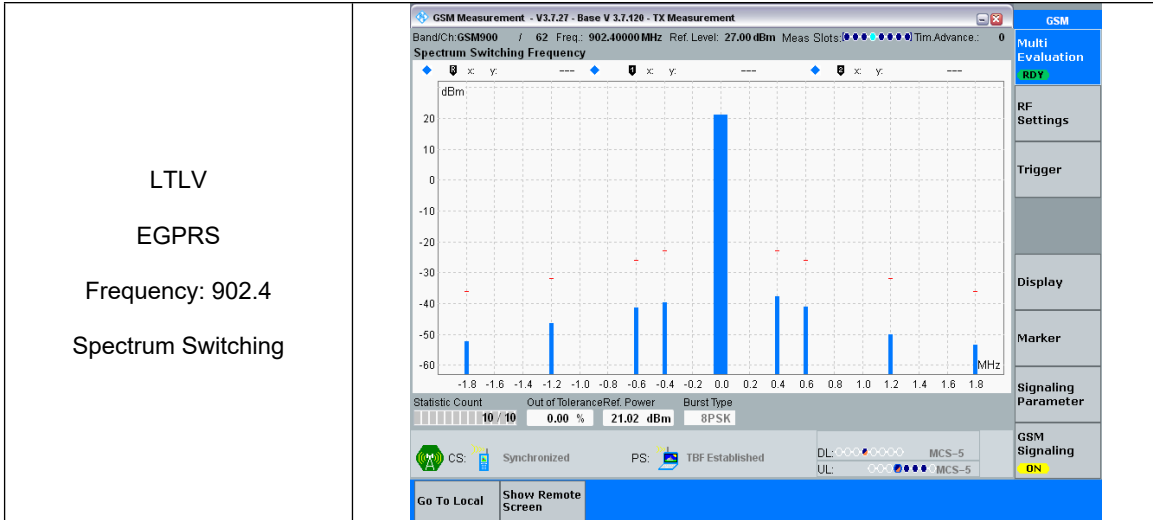
| | |
|--|--|
| <p style="text-align: center;">HTHV EGPRS Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.26 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |
| <p style="text-align: center;">HTHV EGPRS Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.63 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |
| <p style="text-align: center;">HTHV EGPRS Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: [dots] Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.55 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |

| | |
|--|---|
| <p>HTHV EGPRS Frequency: 902.4 Spectrum Switching</p> |  <p>GSM</p> <ul style="list-style-type: none"> Multi Evaluation: RDY RF Settings Trigger Display Marker Signaling Parameter GSM Signaling: ON <p>Go To Local Show Remote Screen</p> |
| <p>HTLV EGPRS Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM</p> <ul style="list-style-type: none"> Multi Evaluation: RDY RF Settings Trigger Display Marker Signaling Parameter GSM Signaling: ON <p>Go To Local Show Remote Screen</p> |
| <p>HTLV EGPRS Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM</p> <ul style="list-style-type: none"> Multi Evaluation: RDY RF Settings Trigger Display Marker Signaling Parameter GSM Signaling: ON <p>Go To Local Show Remote Screen</p> |

| | |
|--|---|
| <p>HTLV EGPRS Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.79 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |
| <p>HTLV EGPRS Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 20.87 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |
| <p>LTHV EGPRS Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.61 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>Go To Local Show Remote Screen</p> |

| | |
|--|--|
| <p>LTHV EGPRS Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0 Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.64 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>GSM Signaling: ON</p> |
| <p>LTHV EGPRS Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: 1 Tim Advance: 0 Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.50 % Ref. Power: -3.76 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>GSM Signaling: ON</p> |
| <p>LTHV EGPRS Frequency: 902.4 Spectrum Switching</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 27.00 dBm Meas Slots: 1 Tim Advance: 0 Spectrum Switching Frequency</p> <p>Statistic Count: 10 / 10 Out of Tolerance: 0.00 % Ref. Power: 20.77 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> <p>GSM Signaling: ON</p> |

| | |
|--|---|
| <p>LTLV EGPRS Frequency: 880.2 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 975 Freq: 880.20000 MHz Ref. Level: 11.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -4.36 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> |
| <p>LTLV EGPRS Frequency: 902.4 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 62 Freq: 902.40000 MHz Ref. Level: 11.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.36 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> |
| <p>LTLV EGPRS Frequency: 914.8 Spectrum Modulation</p> |  <p>GSM Measurement - V3.7.27 - Base V 3.7.420 - TX Measurement Band/Ch: GSM900 / 124 Freq: 914.80000 MHz Ref. Level: 11.00 dBm Meas Slots: Tim Advance: 0</p> <p>Spectrum Modulation Frequency</p> <p>Statistic Count: 200 / 200 Out of Tolerance: 0.00 % Ref. Power: -3.44 dBm Burst Type: 8PSK</p> <p>CS: Synchronized PS: TBF Established DL: MCS-5 UL: MCS-5</p> |



11. Inter-modulation rejection - control channels

11.1 Test Result

| Test Mode | PCL | Test Condition | Channel | Verdict |
|-----------|-----|----------------|---------|---------|
| EGSM900 | 5 | NTNV | LCH | PASS |
| | | | MCH | PASS |
| | | | HCH | PASS |
| | | HTHV | LCH | PASS |
| | | | MCH | PASS |
| | | | HCH | PASS |
| | | HTLV | LCH | PASS |
| | | | MCH | PASS |
| | | | HCH | PASS |
| | | LTHV | LCH | PASS |
| | | | MCH | PASS |
| | | | HCH | PASS |
| LTLV | LCH | PASS | | |
| | MCH | PASS | | |
| | HCH | PASS | | |

12. Inter-modulation rejection - EGPRS

12.1 Test Result

| Test Mode | Test Item | GAMMA | Test Condition | Channel | Coding | Verdict |
|-----------|-----------|-------|----------------|---------|--------|---------|
| EGSM900 | BLER | 3 | NTNV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC1 | PASS |
| | | | | | MC2 | PASS |
| | | | | | MC3 | PASS |
| | | | | | MC4 | PASS |
| | | | | | MC5 | PASS |
| | | | | | MC6 | PASS |
| | | | | | MC7 | PASS |
| | | | | | MC8 | PASS |

| | | | | | | |
|-----|-----|------|------|-----|------|------|
| | | | HTHV | HCH | MC9 | PASS |
| | | | | | MC4 | PASS |
| | | | | LCH | MC9 | PASS |
| | | | | | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | | MC4 | PASS |
| | | | MCH | MC9 | PASS | |
| | | | | MC4 | PASS | |
| | | | | MC9 | PASS | |
| | | | | MC4 | PASS | |
| | | | HTLV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | HCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | LTHV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | HCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | LTLV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| MCH | MC4 | PASS | | | | |
| | MC9 | PASS | | | | |
| HCH | MC4 | PASS | | | | |
| | MC9 | PASS | | | | |

| Test Mode | Test Item | GAMMA | Test Condition | Channel | Coding | Verdict |
|-----------|-----------|-------|----------------|---------|--------|---------|
| EGSM900 | USF BLER | 3 | NTNV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC1 | PASS |
| | | | | | MC2 | PASS |
| | | | | | MC3 | PASS |
| | | | | | MC4 | PASS |
| | | | | | MC5 | PASS |
| | | | | | MC6 | PASS |
| | | | | | MC7 | PASS |
| | | | | | MC8 | PASS |
| | | | | MC9 | PASS | |
| | | | | HCH | MC4 | PASS |
| | | | MC9 | | PASS | |
| | | | HTHV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | HCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | HTLV | LCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | MCH | MC4 | PASS |
| | | | | | MC9 | PASS |
| | | | | HCH | MC4 | PASS |
| MC9 | PASS | | | | | |
| LTHV | LCH | MC4 | PASS | | | |
| | | MC9 | PASS | | | |
| | MCH | MC4 | PASS | | | |
| | | MC9 | PASS | | | |

| | | | | | | | | |
|--|--|--|------|-----|-----|------|-----|------|
| | | | LTLV | HCH | MC4 | PASS | | |
| | | | | | MC9 | PASS | | |
| | | | | LCH | MC4 | PASS | | |
| | | | | | MC9 | PASS | | |
| | | | | | | MCH | MC4 | PASS |
| | | | | | | | MC9 | PASS |
| | | | | | | HCH | MC4 | PASS |
| | | | | | | | MC9 | PASS |

13. AM suppression - control channels

13.1 Test Result

| Test Mode | PCL | Test Condition | Channel | Verdict |
|-----------|-----|----------------|---------|---------|
| EGSM900 | 5 | NTNV | MCH | PASS |

14. AM suppression - packet channels

14.1 Test Result

| Test Mode | GAMMA | Test Condition | Channel | Test Item | Verdict |
|-----------|-------|----------------|---------|-----------|---------|
| EGSM900 | 3 | NTNV | MCH | BLER | PASS |
| | | | | USF BLER | PASS |

15. Adjacent channel rejection - control channels

15.1 Test Result

| Test Mode | PCL | Channel | Test Type | Test Condition | Verdict |
|-----------|-----|---------|---------------------------------|----------------|---------|
| EGSM900 | 5 | LCH | Adjacent Time Slot selectivity | NTNV | PASS |
| | | | | HTHV | PASS |
| | | | | HTLV | PASS |
| | | | | LTHV | PASS |
| | | | | LTLV | PASS |
| | | MCH | Adjacent RF channel selectivity | NTNV | PASS |
| | | | | HTHV | PASS |
| | | | | HTLV | PASS |
| | | | | LTHV | PASS |
| | | | | LTLV | PASS |

16. Adjacent channel rejection - EGPRS

16.1 Test Result

| Test Mode | Test Mode | Test Item | GAMMA | Test Condition | Channel | Coding | Verdict |
|-----------|-----------|-----------|-------|----------------|---------|--------|---------|
| EGSM900 | Adjacent | BLER | 3 | NTNV | MCH | MC1 | PASS |

| | | | | | | | | | |
|------|------------------------|----------|-----|------|------|------|------|-----|------|
| | RF channel selectivity | | | | | MC2 | PASS | | |
| | | | | | | MC3 | PASS | | |
| | | | | | | MC4 | PASS | | |
| | | | | | | MC5 | PASS | | |
| | | | | | | MC6 | PASS | | |
| | | | | | | MC7 | PASS | | |
| | | | | | | MC8 | PASS | | |
| | | | | | | MC9 | PASS | | |
| | | | | | | HTHV | MCH | MC4 | PASS |
| | | | | | | | | MC9 | PASS |
| | | HTLV | MCH | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |
| | | LTHV | MCH | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |
| | | LTLV | MCH | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |
| | | USF BLER | 3 | NTNV | MCH | MC1 | PASS | | |
| | | | | | | MC5 | PASS | | |
| | | | | HTHV | MCH | MC4 | PASS | | |
| | | | | | | MC9 | PASS | | |
| HTLV | MCH | | | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |
| LTHV | MCH | | | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |
| LTLV | MCH | | | MC4 | PASS | | | | |
| | | | | MC9 | PASS | | | | |

| Test Mode | Test Mode | Test Item | GAMMA | Test Condition | Channel | Coding | Verdict |
|-----------|--------------------------------|-----------|-------|----------------|---------|--------|---------|
| EGSM900 | Adjacent Time Slot selectivity | BLER | 3 | NTNV | MCH | MC1 | PASS |
| | | | | | | MC2 | PASS |
| | | | | | | MC3 | PASS |
| | | | | | | MC4 | PASS |
| | | | | | | MC5 | PASS |
| | | | | | | MC6 | PASS |
| | | | | | | MC7 | PASS |
| | | | | | | MC8 | PASS |
| | | | | | | MC9 | PASS |
| | | USF BLER | 3 | NTNV | MCH | MC1 | PASS |
| | | | | MC5 | PASS | | |

17. Minimum Input level for Reference Performance - GPRS

17.1 Test Result

| Test Mode | Test Item | GAMMA | Test Condition | Channel | DL Reference Level | Coding | Verdict |
|-----------|-----------|-------|----------------|---------|--------------------|--------|---------|
| EGSM900 | BLER | 3 | NTNV | MCH | Sensitivity+7 | C3 | PASS |
| | | | | HOPP | Sensitivity+1 | C3 | PASS |
| | | | HTHV | HOPP | Sensitivity+1 | C4 | PASS |
| | | | | | Sensitivity+1 | C3 | PASS |
| | | | HTLV | HOPP | Sensitivity+1 | C4 | PASS |
| | | | | | Sensitivity+1 | C3 | PASS |
| | | | LTHV | HOPP | Sensitivity+1 | C3 | PASS |
| | | | | | Sensitivity+1 | C4 | PASS |

| | | | | | | | |
|---------------|-------------|------|------|------|---------------|----|------|
| | USF BLER | 3 | LTLV | HOPP | Sensitivity+1 | C3 | PASS |
| | | | | | Sensitivity+1 | C4 | PASS |
| | | | NTNV | MCH | Sensitivity-3 | C1 | PASS |
| | | | | | Sensitivity-3 | C2 | PASS |
| | | | | | Sensitivity-3 | C4 | PASS |
| | | | HTHV | MCH | Sensitivity+1 | C1 | PASS |
| | | | | | Sensitivity+1 | C2 | PASS |
| | | | | | Sensitivity+1 | C4 | PASS |
| | | | HTLV | MCH | Sensitivity+1 | C1 | PASS |
| | | | | | Sensitivity+1 | C2 | PASS |
| | | | | | Sensitivity+1 | C4 | PASS |
| | | | LTHV | MCH | Sensitivity+1 | C1 | PASS |
| | | | | | Sensitivity+1 | C2 | PASS |
| | | | | | Sensitivity+1 | C4 | PASS |
| | | | LTLV | MCH | Sensitivity+1 | C1 | PASS |
| Sensitivity+1 | C2 | PASS | | | | | |
| Sensitivity+1 | C4 | PASS | | | | | |

18. Minimum Input level for Reference Performance - EGPRS

18.1 Test Result

| Test Mode | Test Item | GAMMA | Test Condition | Channel | DL Reference Level | Coding | Verdict |
|---------------|---------------|-------|----------------|---------------|--------------------|--------|---------|
| EGSM900 | BLER | 3 | NTNV | MCH | Sensitivity+7 | MC4 | PASS |
| | | | | | Sensitivity+7 | MC8 | PASS |
| | | | | HOPP | Sensitivity+1 | MC1 | PASS |
| | | | | | Sensitivity+1 | MC2 | PASS |
| | | | | | Sensitivity+1 | MC3 | PASS |
| | | | | | Sensitivity+1 | MC4 | PASS |
| | | | | | Sensitivity+1 | MC5 | PASS |
| | | | | | Sensitivity+1 | MC6 | PASS |
| | | | | | Sensitivity+1 | MC7 | PASS |
| | | | Sensitivity+1 | MC8 | PASS | | |
| | | | Sensitivity+1 | MC9 | PASS | | |
| | | | HTHV | HOPP | Sensitivity+1 | MC4 | PASS |
| | | | | | Sensitivity+1 | MC8 | PASS |
| | | | HTLV | HOPP | Sensitivity+1 | MC4 | PASS |
| | | | | | Sensitivity+1 | MC8 | PASS |
| | | | LTHV | HOPP | Sensitivity+1 | MC4 | PASS |
| | | | | | Sensitivity+1 | MC8 | PASS |
| | | | LTLV | HOPP | Sensitivity+1 | MC4 | PASS |
| | Sensitivity+1 | MC8 | | | PASS | | |
| | USF BLER | 3 | NTNV | MCH | Sensitivity-3 | MC1 | PASS |
| | | | | | Sensitivity-3 | MC5 | PASS |
| | | | HTHV | MCH | Sensitivity+1 | MC1 | PASS |
| | | | | | Sensitivity+1 | MC5 | PASS |
| | | | HTLV | MCH | Sensitivity+1 | MC1 | PASS |
| Sensitivity+1 | | | | | MC5 | PASS | |
| LTHV | | | MCH | Sensitivity+1 | MC1 | PASS | |
| | | | | Sensitivity+1 | MC5 | PASS | |
| LTLV | | | MCH | Sensitivity+1 | MC1 | PASS | |
| | Sensitivity+1 | MC5 | | PASS | | | |