### RADIO TEST REPORT ETSI EN 300 328 V2.2.2 (2019-07)

Product :	4G Tablet
Trade Mark :	Blackview
Model Name :	Tab 16
Family Model :	N/A
Report No. :	STR221031005002E

### **Prepared for**

DOKE COMMUNICATION (HK) LIMITED

RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

### **Prepared by**

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### **TEST RESULT CERTIFICATION**

Applicant's name: DOKE CO	MMUNICATION (HK) LIMITED
Address RM 1902 E	EASEY COMM BLDG 253-261 HENNESSY ROAD
Manufacturer's Name: Shenzhen	
Address	ng3, 7th Industrial Zone, Yulv Community, Yutang Road, g District, Shenzhen, China.
Product description	
Product name:: 4G Tablet	
Trademark: Blackview	
Model Name Tab 16	
Family Model N/A	
Standards: ETSI EN 3	00 328 V2.2.2 (2019-07)
	ted by Shenzhen NTEK, and the test results show that the ce with the 2014/53/EU RED Directive Art.3.2 ne tested sample identified in the report.
This report shall not be reproduced except	t in full, without the written approval of Shenzhen NTEK,
this document may be altered or revised b	y Shenzhen NTEK, personnel only, and shall be noted in
the revision of the document.	
Test Sample Number	T221031001R003
Date of Test	
Date (s) of performance of tests	Nov 02. 2022 ~ Dec 01. 2022
Date of Issue	Dec 02. 2022
Test Result:	Pass
Testing Engineer	
Testing Engineer :	18 Ven tin
	(Allen Liu)
Authorized Signatory:	Alles
	(Alex Li)

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Report No.	Version	Description	Issued Date
STR221031005002E	Rev.01	Initial issue of report	Dec 02. 2022
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### **1. GENERAL INFORMATION**

### 1.1 GENERAL DESCRIPTION OF EUT

4G Tablet		
Blackview		
Tab 16		
N/A		
N/A		
The EUT is 4G Tablet		
Operation Frequency: 2402~2480 MHz		
Modulation Type: GFSK		
Adaptive/non-adaptive Adaptive equipment		
Receiver categories 3		
Number Of Channel Please see Note 2.		
Antenna Designation: PIFA Antenna		
Antenna Gain(Peak) -0.1dBi		
Refer to below		
Model: QZ-01800EA00 Input: 100-240V~50/60Hz 0.5A Output: 5.0V3.0A or 7.0V2.0A or 9.0V2.0A or 12.0V1.5A (18.0W)		
DC 3.8V, 7680mAh		
DC 3.8V from battery or DC 5V from Adapter.		
Refer to users manual		
P30-T616-V1.0-221112-Q		
Tab_16_NEU_P30_V1.0_20221122V01		

#### Note:

2

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Channel	Frequency (MHz)
00	2402
01	2404
<u> </u>	
38	2478
39	2480

### 1.2 INFORMATION ABOUT THE EUT

### a) The type of modulation used by the equipment:

- FHSS
- $\boxtimes$  other forms of modulation

### b) In case of FHSS modulation:

- In case of non-Adaptive Frequency Hopping equipment: The number of Hopping Frequencies:
- In case of Adaptive Frequency Hopping Equipment:
  - The maximum number of Hopping Frequencies:
  - The minimum number of Hopping Frequencies:
- The (average) Dwell Time:

### c) Adaptive / non-adaptive equipment:

- non-adaptive Equipment
- Adaptive Equipment without the possibility to switch to a non-adaptive mode
- adaptive Equipment which can also operate in a non-adaptive mode

### d) In case of adaptive equipment:

- The maximum Channel Occupancy Time implemented by the equipment: ./. ms
- $\boxtimes$  The equipment has implemented an LBT based DAA mechanism
  - In case of equipment using modulation different from FHSS:
  - The equipment is Frame Based equipment
  - The equipment is Load Based equipment
  - The equipment can switch dynamically between Frame Based and Load Based equipment
  - The CCA time implemented by the equipment: /  $\mu$ s
  - The equipment has implemented a non-LBT based DAA mechanism
- The equipment can operate in more than one adaptive mode

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### e) In case of non-adaptive Equipment:

The maximum RF Output Power (e.i.r.p.):

The maximum (corresponding) Duty Cycle:

Equipment with dynamic behaviour, that behaviour is described here. (e.g. the different combinations of duty cycle and corresponding power levels to be declared):

### f) The worst case operational mode for each of the following tests:

- RF Output Power
- GFSK
- Power Spectral Density
   GFSK
- Duty cycle, Tx-Sequence, Tx-gap N/A
- Accumulated Transmit time, Frequency Occupation & Hopping Sequence (only for FHSS equipment) N/A
- Hopping Frequency Separation (only for FHSS equipment) N/A
- Medium Utilization
   N/A
- Adaptivity

N/A

- Receiver Blocking
   GFSK
- Nominal Channel Bandwidth

GFSK

Transmitter unwanted emissions in the OOB domain

GFSK

- Transmitter unwanted emissions in the spurious domain GFSK
- Receiver spurious emissions
   GFSK

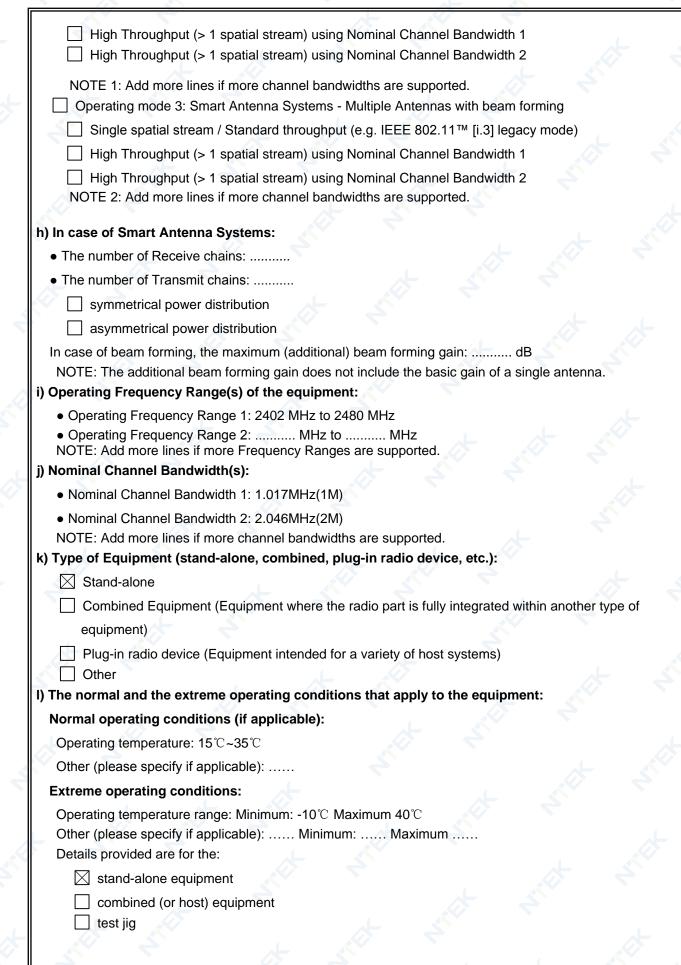
### g) The different transmit operating modes (tick all that apply):

Operating mode 1: Single Antenna Equipment

- Equipment with only one antenna
- Equipment with two diversity antennas but only one antenna active at any moment in time
- Smart Antenna Systems with two or more antennas, but operating in a (legacy) mode where only one antenna is used (e.g. IEEE 802.11<sup>™</sup> [i.3] legacy mode in smart antenna systems)
- Operating mode 2: Smart Antenna Systems Multiple Antennas without beam forming
  - Single spatial stream / Standard throughput / (e.g. IEEE 802.11™ [i.3] legacy mode)

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			is and one or more antenna
	eir corresponding e.i.r.p.	levels:	
<ul> <li>Antenna Type: PIF</li> </ul>	A Antenna		
Integral Antenn	a (information to be provid	ed in case of conducted	measurements)
Antenna Gain	: -0.1dBi		
If applicable, add	ditional beamforming gain (	excluding basic antenna	gain): dB
Temporary	y RF connector provided		
No tempor	rary RF connector provided		
Dedicated Ante	ennas (equipment with ante	enna connector)	
Single pov	ver level with correspondin	g antenna(s)	
Multiple po	ower settings and correspo	nding antenna(s)	
Number of di	fferent Power Levels:		
Power Level	1: dBm		
Power Level	2: dBm		
Power Level	3: dBm		
NOTE 1: Add	d more lines in case the eq	uipment has more power	· levels.
NOTE 2: The	ese power levels are condu	icted power levels (at ant	tenna connector).
Number of an	I 1: dBm ntenna assemblies provide		
Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1M	-0.1	-2.12	7
2M	-0.1	-2.17	
	4		* *
NOTE 3: Add	I more rows in case more a	antenna assemblies are s	
	I 2: dBm ntenna assemblies provide		supported for this power level.
Number of an	ntenna assemblies provide	d for this power level:	
Number of an Assembly #	ntenna assemblies provide	d for this power level:	
Number of an Assembly # 1 2	ntenna assemblies provide	d for this power level:	
Number of an Assembly # 1 2 3 NOTE 4: Add Power Level	d more rows in case more a	d for this power level: e.i.r.p. (dBm)	Part number or model name
Number of an Assembly # 1 2 3 NOTE 4: Add Power Level	d more rows in case more a	d for this power level: e.i.r.p. (dBm)	Part number or model name
Number of an Assembly # 1 2 3 NOTE 4: Add Power Level Number of an	d more rows in case more a <b>3:</b>	d for this power level: e.i.r.p. (dBm) antenna assemblies are s d for this power level:	Part number or model name
Number of an Assembly # 1 2 3 NOTE 4: Add Power Level Number of an Assembly #	d more rows in case more a <b>3:</b>	d for this power level: e.i.r.p. (dBm) antenna assemblies are s d for this power level:	Part number or model name

NOTE 5: Add more rows in case more antenna assemblies are supported for this power level.

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n) The nominal voltages of the stand-alone radio equipment or the r	nominal voltages of the
combined (host) equipment or test jig in case of plug-in devices:	
Details provided are for the:	
Stand-alone equipment	
Combined (or host) equipment	
🗌 test jig	
Supply Voltage 🔲 AC mains State AC voltage V	
DC State DC voltage: DC 3.8V	
In case of DC, indicate the type of power source	
Internal Power Supply	
External Power Supply or AC/DC adapter: DC 5V	
Battery: DC 3.8V	
Other:	
o) Describe the test modes available which can facilitate testing:	
See clause 1.3	
p) The equipment type (e.g. Bluetooth®, IEEE 802.11™ [i.3], IEEE 80	2.15.4™ [i.4], proprietary, etc.):
Bluetooth®	
q) If applicable, the statistical analysis referred to in clause 5.4.1 q)	
(to be provided as separate attachment)	
r) If applicable, the statistical analysis referred to in clause 5.4.1 r)	
(to be provided as separate attachment)	
s) Geo-location capability supported by the equipment:	
☐ Yes	
The geographical location determined by the equipment as defin	ed in clause 4.3.1.13.2 or
clause 4.3.2.12.2 is not accessible to the user	
🖂 No 🔬 🔶	
t) Describe the minimum performance criteria that apply to the equi	pment (see clause 4.3.1.12.3 or
clause 4.3.2.11.3):	
GFSK(CH00)=0.79%(1M), GFSK(CH00)=0.71%(2M)	
A 21 7 4	

### 1.3 TEST CONDITIONS AND CHANNEL

	Normal Test Conditions	Extreme Test Conditions
Temperature	15℃ - 35℃	40℃ ~ -10℃ Note: (1)
Relative Humidity	20% - 75%	N/A
Supply Voltage	DC 3.8V	/

Test Channel	EUT Channel	Test Frequency (MHz)
Lowest	CH00	2402
Middle	CH19	2440
Highest	CH39	2480

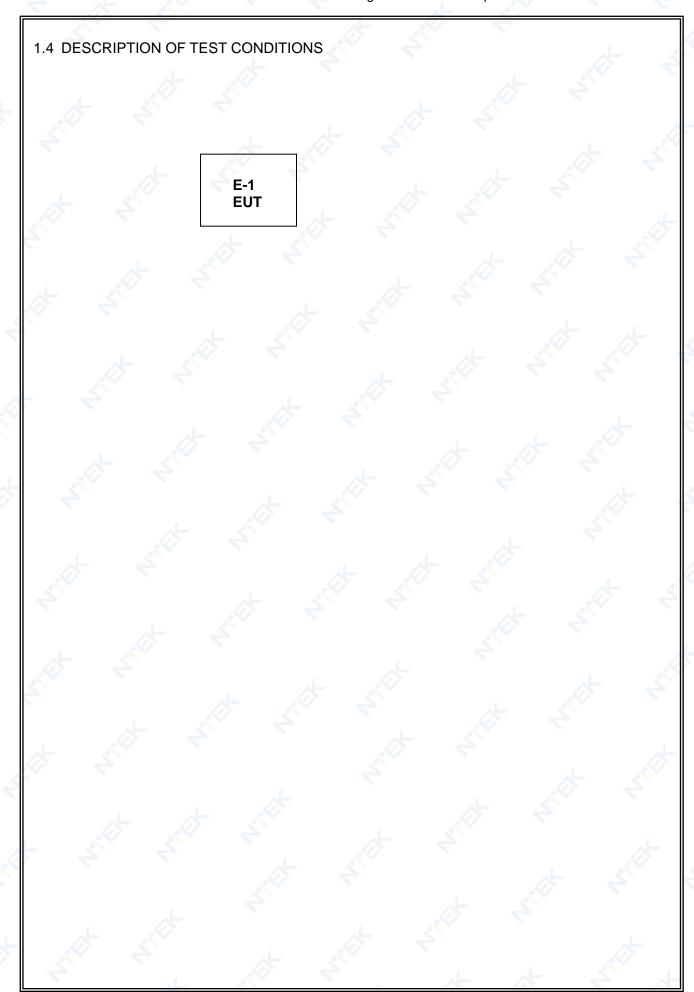
#### Note:

(1) The HT 40  $^\circ\!C$  and LT -10  $^\circ\!C$  was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.

(2) The measurements are performed at the highest, middle, lowest available channels.

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### 1.5 DESCRIPTION OF SUPPORT UNITS

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The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	4G Tablet	Tab 16	N/A	EUT
~	2			5
		~ ~		
		2	*	<u> </u>
		1 5		

Item	Туре	Shielded Type	Ferrite Core	Length	Note
7		×			
	~				
	- 1				
	7			5 7	
7			5		

Note:

- (1)
- The support equipment was authorized by Declaration of Confirmation. For detachable type I/O cable should be specified the length in cm in  $\[\]$  Length  $\[\]$  column. (2)

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### 1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

			-	-		
EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
EMI Test Receiver	R&S	ESPI7	101318	2022.04.06	2023.04.05	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
Turn Table	EM 🏑	SC100_1	60531	N/A	N/A	N/A
Antnna Mast	_ EM 🔨	SC100	N/A	N/A	N/A	N/A
Horn Antenna	EM	EM-AH-10180	2011071402	2022.03.31	2023.03.30	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.04.01	2023.03.31	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2022.06.17	2025.06.16	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835SE	980246	2022.06.17	2023.06.16	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2022.04.01	2023.03.31	1 year
Filter	TRILTHIC	2400MHz	29	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	33-10-33	AR4010	2020.04.07	2023.04.06	3 year
Attenuator	Weinschel	24-20-34	BP4485	2020.04.07	2023.04.06	3 year
MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.06.17	2023.06.16	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2022.04.01	2023.03.31	1 year
PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2022.06.17	2023.06.16	1 year
Power Splitter	Mini-Circuits/ USA	ZN2PD-63-S+	SF025101428	2020.04.07	2023.04.06	3 year
Coupler	Mini-Circuits	ZADC-10-63-S +	SF794101410	2020.04.07	2023.04.06	3 year
Directional Coupler	MCLI/USA	CB11-20	0D2L51502	2020.07.17	2023.07.16	3 year
Attenuator	Agilent	8495B	MY42147029	2020.04.13	2023.04.12	3 year
Power Meter	DARE	RPR3006W	15I00041SNO 84	2022.06.17	2023.06.16	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2022.04.01	2023.03.31	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2022.04.01	2023.03.31	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

### Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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### 2. SUMMARY OF TEST RESULTS

	ETSI EN 300 328 V2.2.2 (2019-07)		
Clause	Test Item	Results	
5	TRANSMITTER PARAMETERS		
4.3.2.2	RF Output Power	Pass	
4.3.2.3	Power Spectral Density	Pass	
4.3.2.4	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)	
4.3.2.5	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)	
4.3.2.6	Adaptivity	Not Applicable (See Note 1)	
4.3.2.7	Occupied Channel Bandwidth	Pass	
4.3.2.8	Transmitter unwanted emission in the OOB domain Pass		
4.3.2.9	Transmitter unwanted emissions in the spurious domain Pa		
	RECEIVER PARAMETERS		
4.3.2.10	Receiver Spurious Emissions	Pass	
4.3.2.11	Receiver Blocking	Pass	

#### Note:

- 1. These requirements do not apply for equipment with a maximum declared RF output power of less than 10 dBm EIRP or for equipment when operating in a mode where the RF output power is less than 10 dBm EIRP.
- 2. These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode
- 3. The antenna gain provided by customer is used to calculate the EIRP result. NTEK is not responsible for the accuracy of antenna gain parameter.

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### 2.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd. Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China FCC Registered No.: 463705 IC Registered No.:9270A-1 CNAS Registration No.:L5516

### 2.2 MEASUREMENT UNCERTAINTY

For the test methods, according to ETSI EN 300 328 standard, the measurement uncertainty figures shall be calculated in accordance with ETR 100 028-1[4] and shall correspond to an expansion factor(coverage factor) k=1.96 or k=2 (which provide confidence levels of respectively **95** % and **95.45** % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

	Measurement uncertai	nty
No.	Item	Uncertainty (P=95)
<b>–</b> 1	Occupied Channel Bandwidth	± 4.7%
2	RF output Power, conducted	± 0.9dB
3	Power Spectral Density, conducted	± 2.6dB
4	Unwanted emissions, conducted	± 2.2dB
5 <	All emissions, radiated	± 5.3dB
6	Temperature	± 0.5°C
7	Humidity	± 2.0%
8 🥢	Time	± 1.0%

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### 3. TEST PROCEDURES AND RESUTLS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

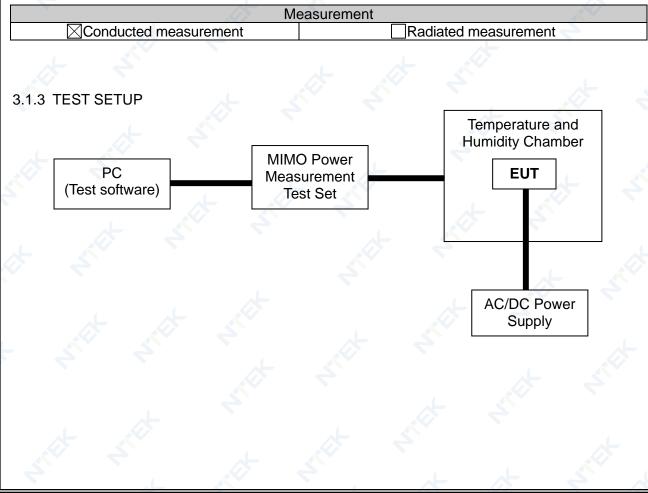
### 3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

Refer to chapter 4.3.2.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

	RF OUTPUT POWER		
	Condition	Limit	
-	Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.	
	Adaptive wide band modulations systems	≤20dBm	

### 3.1.2 TEST PROCEDURE

### Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)



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### 3.1.4 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	<b>20</b> °C	Relative Humidity:	55 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX Low channel / Middle Channel / High Channel		

Test data reference attachment

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### 3.2. PEAK POWER DENSITY

### 3.2.1 LIMITS OF POWER SPECTRAL DENSITY

Refer to chapter 4.3.2.3.3 of ETSI EN 300 328 V2.2.2 (2019-07)

	RF OUTPUT POWER		
Condition		Limit	2
Name and a second s	For equipment using wide band modulations other than FHSS	≤10 dBm/MHz	

### 3.2.2 TEST PROCEDURE

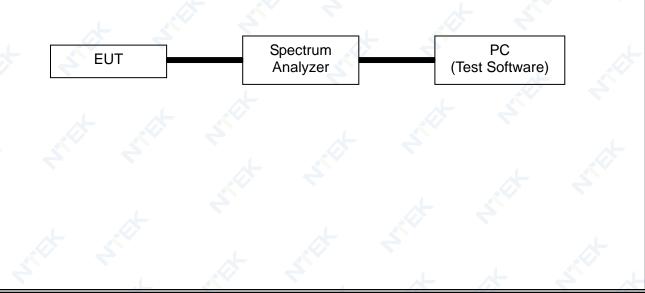
Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement					
Conducted measurement	Radiated measurement				

### The setting of the Spectrum Analyzer

Start Frequency	2400MHz	
Stop Frequency	2483.5MHz	
Detector	RMS	
Sweep Point	> 8 350; for spectrum analysers not supporting this number of sweep points, the frequency band may be segmented	
Sweep time:	<ul> <li>For non-continuous transmissions: 2 × Channel Occupancy Time</li> <li>× number of sweep points</li> <li>For continuous transmissions: 10 s; the sweep time may be</li> <li>increased further until a value where the sweep time has no</li> <li>further impact anymore on the RMS value of the signal.</li> </ul>	
RBW / VBW	10KHz / 30KHz	

### 3.2.3 TEST SETUP



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### 3.2.4 TEST RESULTS

<u>.</u>			
EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	<b>26℃</b>	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH19/CH39)	7	<u>×</u> ×

Test data reference attachment

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### 3.3. OCCUPIED CHANNEL BANDWIDTH

### 3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refe	r to chapter 4.3.2	.7.3 of ETSI EN 300 328 V2.2.2 (20	)19-07)	
	OCCUPIED CHANNEL BANDWIDTH			
A A		Condition	Limit	
	All types of equipment using wide band modulations other than FHSS		Shall fall completely within the band 2400 to 2483.5 MHz	
	Additional	For non-adaptive using wide band modulations other than FHSS system and E.I.R.P >10 dBm	Less than 20 MHz	
	requirement	For non-adaptive frequency hopping system and E.I.R.P >10 dBm	Less than 5 MHz	

### 3.3.2 TEST PROCEDURE

### Refer to chapter 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	M	easurement	
	measurement	Radiated measurement	
The setting of the Spec	trum Analyzer		
Center Frequency The centre frequency of the channel under test			
Frequency Span	2 × Nominal Channel Bandwidth		
Detector	RMS		
RBW	~ 1 % of the span without going below 1 %		
VBW	3 × RBW		
Trace	Max hold		
Sweep time	1s		

### 3.3.3 DEVIATION FROM TEST STANDARD

No deviation

### 3.3.4 TEST SETUP



These measurements only were performed at normal test conditions. The measurement shall be performed only on the lowest and the highest frequency within the ststed frequency range. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software has been activated to set the EUT on specific status.

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### 3.3.5 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	<b>26</b> °C	Relative Humidity :	60 %
Pressure :	1012 hPa 📈 📈	Test Voltage :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH19/CH39)		

Test data reference attachment

### 3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

### 3.4.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN Refer to chapter 4.3.2.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN				
Condition	Limit			
Under all test conditions	The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in below figure.			

Spurious Domain	Out Of Band Don	nain (OOB)	Allocated Band	Out Of Band Domain (OOB)	Spurious Doma
	A	- A			
В	4.			AND C	
с	at -				At 1
	5			A A	2

- A: -10 dBm/MHz e.i.r.p. B: -20 dBm/MHz e.i.r.p. C: Spurious Domain limits

BW = Occupied Channel Bandwidth in MHz or 1 MHz whichever is greater

3.4.2 TEST PROCEDURE

### Refer to chapter 5.4.8.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	M	easurement		
Conducted measure	ment	Radiated measurement		
The setting of the Spectrum Analyzer				
Span 🧄 🍝	0Hz 📉			
Filter Mode	Channel Filte	Channel Filter		
Trace Mode	Max Hold			
Trigger Mode		r; in case video triggering is not possible, an external e may be used		
Detector	RMS			
Sweep Point / Sweep Mode	Sweep Time	[s] / (1 µs) or 5 000 whichever is greater/ Continuous		
RBW / VBW	1MHz / 3MH	z		

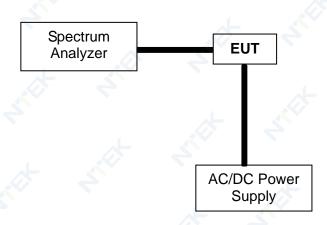
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### 3.4.3 DEVIATION FROM TEST STANDARD

No deviation

3.4.4 TEST SETUP



According to the EN 300328 V2.2.2 clause 5.4.8.1: These measurements shall only be performed at normal test conditions. For equipment using FHSS modulation, the measurements shall be performed during normal operation (hopping).

For equipment using wide band modulations other than FHSS, the measurement shall be performed at the lowest and the highest channel on which the equipment can operate. These operating channels shall be recorded.

The equipment shall be configured to operate under its worst case situation with respect to output power.

If the equipment can operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz), then each channel bandwidth shall be tested separately.

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### 3.4.5 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	<b>24</b> °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH39)	7	

Test data reference attachment

### 3.5. ADAPTIVE (CHANNEL ACCESS MECHANISM)

### 3.5.1 APPLICABILITY OF ADAPTIVE REQUIREMENTS AND LILIT FOR WIDE BAND MODULATION TECHNIQUES

### Refer to chapter ETSI EN 300 328 V2.2.2 (2019-07)

2	Operational Mode				
			BT based Detect ar	based Detect and Avoid	
Requirement	Non-LBT based Detect and Avoid	Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced as note 2)	
Minimum Clear Channel Assessment (CCA) Time	NA	not less than 18 us (see note 1)	(see note 2)	not less than 18 us (see note 1)	
Maximum Channel Occupancy (COT) Time	<40 ms	1ms to 10 ms	(see note 2)	(13/32)*q ms (see note 3)	
Minimum Idle Period	5 % minimum of 100 μs	5% of COT	(see note 2)	NA	
Extended CCA check		NA	(see note 2)	R*CCA (see note 4)	
Short Control Signalling Transmissions Maximum duty cycle of 10% within an observation period of 50 (see note 5)			on period of 50 ms		

Note 1: The CCA time used by the equipment shall be declared by the supplier.

Note 2: Load Based Equipment may implement an LBT based spectrum sharing mechanism based on the Clear Channel Assessment (CCA) mode using energy detect as described in IEEE 802.11<sup>™</sup>-2012 [i.3], clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4<sup>™</sup>-2011 [i.4], clause 4, clause 5 and clause 8 providing the equipment complies with the conformance requirements referred to in clause 4.3.2.6.3.4.

Note 3: q is selected by the manufacturer in the range [4...32]

Note 4: The value of R shall be randomly selected in the range [1...q]

Note 5: Adaptive equipment may or may not have Short Control Signaling Transmissions.

### Interference threshold level

The detection threshold shall be proportional to the transmit power of the transmitter: for a 20 dBm e.i.r.p. transmitter the detection threshold level (TL) shall be equal to or less than -70 dBm/MHz at the input to the receiver assuming a 0 dBi (receive) antenna assembly. This threshold level (TL) may be corrected for the (receive) antenna assembly gain (G); however, beamforming gain (Y) shall not be taken into account. For power levels less than 20 dBm e.i.r.p., the detection threshold level may be relaxed to:

TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)

	Table 9: Unwanted Signal parameters				
	Wanted signal mean power from companion device (dBm)	Unwanted signal frequency (MHz)	Unwanted CW signal power (dBm)		
Δ.	-30/ sufficient to maintain the link(see note 2)	2 395 or 2 488,5 (see note 1)	-35 (see note 2)		

NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1. NOTE 2: A typical value which can be used in most cases is -50 dBm/MHz. NOTE 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.

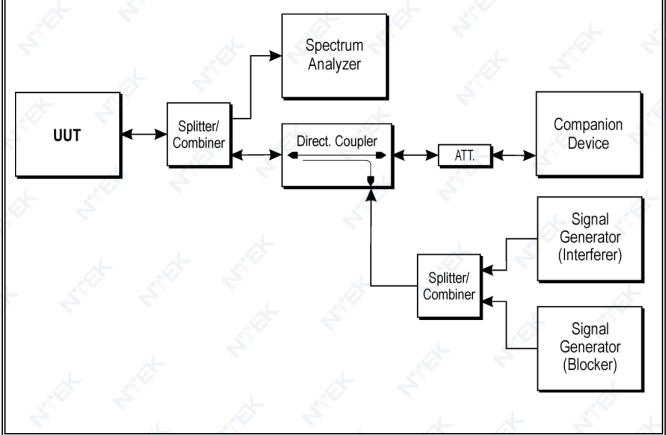
### 3.5.2 TEST PROCEDURE

Refer to chapter 5.4.6.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	Measurement
Conducted measurement	Radiated measurement

Test method please refer to the 5.4.6.2.1.4 of ETSI EN 300 328 V2.2.2 (2019-07)

### 3.5.3 TEST SETUP CONFIGURATION



N2017.06.06.0614.V.1.2

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### 3.5.4 LIST OF MEASUREMENTS

	UUT operational Mode	
Frame Based Equipment	Load Based Equipment (CCA using 'energy detect')	Load Based Equipment (CCA not using any of the mechanisms referenced)
	V	

Clause	Test Parameter	Remarks	PASS/FAIL
4.3.2.5.2.2.1	Adaptive (Frame Based Equipment)	Not Applicable	N/A
4.3.2.5.2.2.2	Adaptive (Load Based Equipment)	N/A	N/A
4.3.2.5.3	Short Control Signaling Transmissions	N/A	N/A

N2017.06.06.0614.V.1.2

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### 3.5.5 TEST RESULTS

EUT :	4G Tablet	Model Name :	Tab 16
Temperature :	<b>24</b> °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Power :	N/A
Test Mode :	N/A	7	

Note: Not Applicable

### 3.6. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

3.6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN Refer to chapter 4.3.2.9.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Bandwidth
30 MHz to 47 MHz	-36dBm	100 kHz
47 MHz to 74 MHz	-54dBm	100 kHz
74 MHz to 87.5 MHz	-36dBm	100 kHz
87.5 MHz to 118 MHz	-54dBm	100 kHz
118 MHz to 174 MHz	-36dBm	100 kHz
174 MHz to 230 MHz	-54dBm	100 kHz
230 MHz to 470 MHz	-36dBm	100 kHz
470 MHz to 694 MHz		100 kHz
694 MHz to 1 GHz	-36dBm	100 kHz
1 GHz ~ 12.75 GHz	-30dBm	1 MHz

### 3.6.2 TEST PROCEDURE

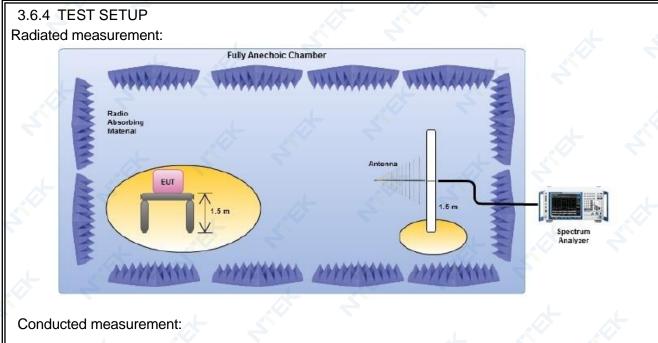
Refer to chapter 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07)

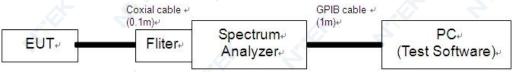
L.	Me	easurement			4
Conducted	measurement		Radiated measu	urement	
The setting of the Spec	ctrum Analyzer		4		
RBW	100K(<1GHz) / 1M	(>1GHz)		X	3
VBW	300K(<1GHz) / 3M	(>1GHz)	×	1	

### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

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- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 3. The equipment was configured to operate under its worst case situation with respect to output power.
- 4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.

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### 3.6.5 TEST RESULTS(Radiated measurement)

BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)						
EUT :	4G Tablet	Model Name :	Tab 16			
Temperature :	24°C	Relative Humidity :	57 %			
Pressure :	1012 hPa	Test Voltage :	DC 3.8V			
Test Mode :	TXGFSK(CH19)					

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm) (dB)		(dBm)	(dBm)	(dBm) (dB)	
V	39.237	-67.71	11.08	-56.63	-36	-20.63	peak
V	116.24	-74.57	9.95	-64.62	-54	-10.62	peak
V	175.725	-71.75	11.04	-60.71	-54	-6.71	peak
V	434.652	-77.11	9.57	-67.54	-36	-31.54	peak
V	536.999	-71.56	10.86	-60.70	-54	-6.70	peak
Н	45.087	-70.28	10.51	-59.77	-36	-23.77	peak
H	98.853	-74.99	9.86	-65.13	-54	-11.13	peak
H	211.111	-69.21	9.67	-59.54	-54	-5.54	peak
Н	332.793	-69.42	11.36	-58.06	-36	-22.06	peak
Н	673.916 🗸	-73.72	10.32	-63.40	-54	-9.40	peak

### Remark:

1.Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.2.All the modes had been tested, but only the worst data recorded in the report.

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UT: 4G Tablet			Model NameTab 16Relative Humidity60 %Test VoltageDC 3.8V				
emperature: 26℃ ressure: 1012 hPa							
		st Mode					e : TX-GFS
Polar	Frequency	Meter Reading Fac	Factor	or Emission Level	Limits	Margin (dB)	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)		
				quency:2402		A	2
V	2024.872	-72.37	10.04	-62.33	-30	-32.33	peak
V	3722.207	-69.41	9.58	-59.83	-30	-29.83	peak
V	2035.863	-73.68	10.53	-63.15	-30	-33.15	peak
V	5711.246	-68.57	10.65	-57.92	-30	-27.92	peak
Н	2130.553	-67.63	10.83	-56.80	-30	-26.80	peak
Н	4650.488	-68.39	11.07	-57.32	-30	-27.32	peak
Н	2206.304	-71.85	10.74	-61.11	-30	-31.11	peak
Н	5216.596	-69.38	11.31	-58.07	-30	-28.07	peak
		0	peration fre	equency:2440			4
V	2279.809	-70.55	10.97	-59.58	-30	-29.58	peak
V	5576.648	-69.06	9.77	-59.29	-30	-29.29	peak
V	2559.586	-72.52	11.48	-61.04	-30 🔨	-31.04	peak
V	3015.61	-71.33	10.84	-60.49	-30	-30.49	peak
H	2884.744	-71.99	9.93	-62.06	-30	-32.06	peak
Н	4114.631	-74.15	11.34	-62.81	-30	-32.81	peak
Н	2338.673	-74.12	9.65	-64.47	-30	-34.47	peak
Н	4006.39	-68.49	9.59	-58.90	-30	-28.90	peak
	7	0	peration fre	equency:2480			
V	2705.595	-70.4	9.93	-60.47	-30	-30.47	peak
V	3612.395	-67.41	10.19	-57.22	-30	-27.22	peak
V	2534.225	-74.65	10.59	-64.06	-30	-34.06	peak
V	3256.178	-68.5	11.39	-57.11	-30	-27.11	peak
H	2125.957	-68.1	9.99	-58.11	-30	-28.11	peak
Н	5050.971	-68.04	11.47	-56.57	-30	-26.57	peak
Н	2232.91	-70.92	10.96	-59.96	-30	-29.96	peak

#### Remark:

Н

3675.978

1. Emission Level= Meter Reading+ Factor, Margin= Limit- Emission Level.

-72.88

2. All the modes had been tested, but only the worst data recorded in the report.

10.50

-62.38

-30

-32.38

peak

### 3.6.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

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### 3.7. RECEIVER SPURIOUS RADIATION

### 3.7.1 LIMITS OF RECEIVER SPURIOUS RADIATION Refer to chapter 4.3.2.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RECEIVER SPURIOUS EMISSIONS					
Frequency Range	Maximum Power Limit (E.R.P.(≤1 GHz) E.I.R.P.(> 1 GHz))	Measurement Bandwidth			
30 MHz ~ 1 GHz	-57dBm	100KHz			
1 GHz ~ 12.75 GHz	-47dBm	1MHz			

### 3.7.2 TEST PROCEDURE

Refer to chapter 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	Me	easurement		4	4
Conducted measurement			Radiated measurement		
The setting of the Spectru	um Analyzer	7			de la
RBW	100K(<1GHz) / 1M	(>1GHz)			5
VBW	300K(<1GHz) / 3M	(>1GHz)	5	~	-

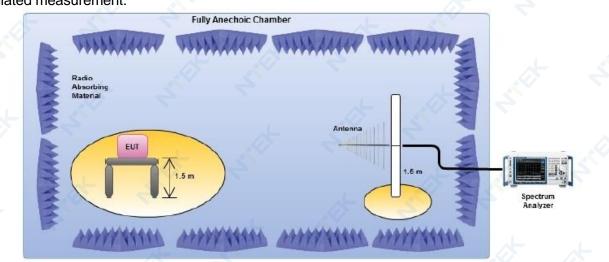
### 3.7.3 DEVIATION FROM TEST STANDARD

No deviation

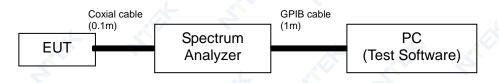
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3.7.4 TEST SETUP

Radiated measurement:



Conducted measurement:



- 1. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration).
- 2. Testing was performed when the equipment was in a receive-only mode.
- 3. The measurements were performed when normal hopping was disabled. In this case measurements were performed when operating at the lowest and the highest hopping frequency.
- 4. The test setup has been constructed as the normal use condition. Controlling software has been activated to set the EUT on specific status.

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#### 3.7.5 TEST RESULTS(Radiated measurement)

RX BELOW 1 GHz WORST- CASE DATA(30 MHz ~ 1GHz)					
EUT :	4G Tablet	Model Name :	Tab 16		
Temperature :	<b>26</b> ℃	Relative Humidity :	60 %		
Pressure :	1012 hPa	Test Voltage :	DC 3.8V		
Test Mode :	RX Mode-GFSK(CH19)	·			

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	2
V	35.861	-78.07	12.98	-65.09	-57	-8.09	peak
V	93.921	-82.46	11.67	-70.79	-57	-13.79	peak
V	208.258	-84.79	18.94	-65.85	-57	-8.85	peak
V	318.047	-84.46	11.65	-72.81	-57	-15.81	peak
V	513.15	-81.8	11.45	-70.35	-57	-13.35	peak
Н	45.775	-83.34	18.60	-64.74	-57	-7.74	peak
Н	95.401	-81.77	18.11	-63.66	-57	-6.66	peak
H	206.477	-83.09	10.30	-72.79	-57	-15.79	peak
Н	408.613	-82.89 🖉	15.00	-67.89	-57	-10.89	peak
Н	636.114	-82.02	14.63	-67.39	-57	-10.39	peak

#### Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit
 All the modes had been tested, but only the worst data recorded in the report.

N2017.06.06.0614.V.1.2

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RX ABOVE 1 GHz WORST- CASE DATA(1GHz ~ 12.75GHz)					
EUT :	4G Tablet	Model Name :	Tab 16		
Temperature :	24 °C	Relative Humidity	54%		
Pressure :	1010 hPa	Test Power :	DC 3.8V		
Test Mode :	RX Mode-GFSK(CH19)	2	1 ×		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	2628.701	-82.72	9.94	-72.78	-47	-25.78	peak
V	5455.182	-82.64	9.82	-72.82	-47	-25.82	peak
V	2930.751	-77.59	10.02	-67.57	-47	-20.57	peak
V	3359.008	-78.26	16.13	-62.13	-47	-15.13	peak
Н	2301.209	-80.88	10.11	-70.77	-47	-23.77	peak
Н	3730.389	-77.03	10.68	-66.35	-47	-19.35	peak
Н	2693.716	-77.08	7.00	-70.08	-47	-23.08	peak
Н	3285.602	-83.9	14.56	-69.34	-47	-22.34	peak

JIIIG

2. All the modes had been tested, but only the worst data recorded in the report.

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

### 3.8. RECEIVER BLOCKING

#### 3.8.1 PERFORMANCE CRITERIA

The minimum performance criterion shall be a PER less than or equal to 10 %. The manufacturer may declare alternative performance criteria as long as that is appropriate for the intended use of the equipment (see clause 5.4.1.t)).

#### 3.8.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.2.11.3, the blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for the applicable receiver category provided in table 14, table 15 or table 16.

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal Frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133 dBm + 10 × log₁₀(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × log₁₀(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2524 2584 2674		45 AV

#### Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

#### NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 20 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

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Table 15: Receiver Blocking parameters receiver category 2 equipment         Wanted signal mean power from       Blocking signal       Blocking signal power       Type of blocking						
companion device (dBm)	Frequency (MHz)	(dBm) (see note 3)	signal			
(see notes 1 and 3)						
(-139 dBm + 10 × log₁₀(OCBW) + 10 dB)	2 380	-34	CW			
or (-74 dBm + 10 dB) whichever is less	2 504					
(see note 2)	2 300					
	2 584					

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

#### Table 16: Receiver Blocking parameters receiver category 3 equipment

Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
companion device (dBm)	Frequency (MHz)	(dBm) (see note 2)	signal
(-139 dBm + 10 × log <sub>10</sub> (OCBW) + 20 dB)	2 380	-34	CW
or (-74 dBm + 20 dB) whichever is less	2 504		4
(see note 2)	2 300		
	2 584		

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to Pmin + 30 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

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#### 3.8.3 TEST PROCEDURE

Refer to chapter 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07)

	Measuremen	t A	
Conducted measurement		Radiated measu	rement
3.4 DEVIATION FROM TEST STAN	DARD		
deviation			
3.5 TEST SETUP			
Variable attenuator			Performance
step size ≤ 1 dB			Monitoring
Signalling Unit			Device
lor /		2	
Companion V Device ATT.			
	Splitter/	t. Coupler	-> UUT
Blocking Signal			
Source			
		¥_	
	Sp	ectrum	
	An	halyzer	
		Optional	

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### 3.8.6 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 16	
Temperature :	24 °C	Relative Humidity	54%	
Pressure :	1010 hPa	Test Power :	DC 3.8V	
Test Mode :	GFSK-RX Mode (CH00/CH39)-1M			

#### CH00:

receiver category 3					
Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %	
	2 380	4	0.79%		
	2 504		0.50%	≤10%	
-58.93	2 300	-34	0.15%		
	2 584		0.36%	≤10%	

### CH39:

receiver category 3					
Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %	
4	2 380		0.76%		
	2 504	<b>C</b>	0.29%	≤10%	
-58.93	2 300	-34	0.76%		
A A	2 584		0.61%	≤10%	

Note: (1) The above results were obtained from laboratory tests.

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EUT :	4G Tablet	Model Name :	Tab 16	
Temperature :	24 °C	Relative Humidity	54%	
Pressure :	1010 hPa	Test Power :	DC 3.8V	
Test Mode :	Test Mode : GFSK-RX Mode (CH00/CH39)-2M			

CH00:

V	rec	eiver category 3		<u>~                                    </u>
Wanted signal mean power from companion device (dBm) <sub>Note(1)</sub>	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
	2 380 2 504		0.21%	≤10%
-55.90	2 300	-34	0.71%	≤10%
	2 584		0.46%	-1070

CH39:

	re	ceiver category 3		<u> </u>
Wanted signal mean power from companion	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
device (dBm) Note(1)				
	2 380		0.31%	<100/
	2 504		0.15%	≤10%
-55.89	2 300	-34	0.40%	
Å	2 584		0.49%	≤10%

Note: (1) The above results were obtained from laboratory tests.

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### 4. TEST RESULTS

#### 1M:

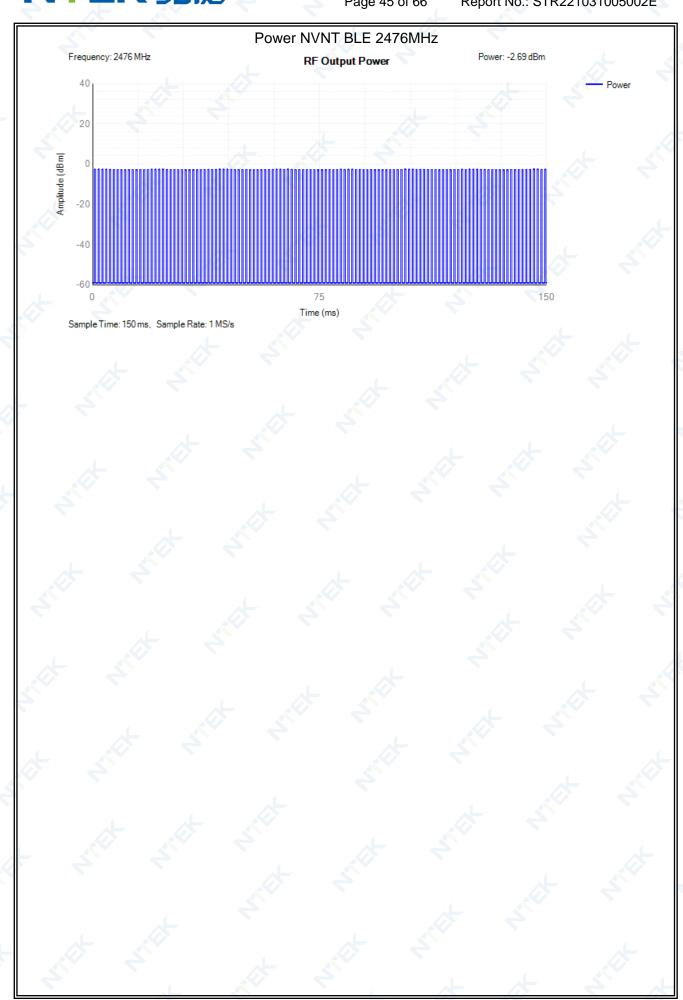
#### 4.1.1 RF OUTPUT POWER

Condition	Mode	Frequency	Max Burst RMS	Burst	Max EIRP	Limit	Verdict
		(MHz)	Power (dBm)	Number	(dBm)	(dBm)	
NVNT	BLE	2402	-3.05	120	-3.15	20	Pass
NVNT	BLE	2440	-2.02	120	-2.12	20	Pass
NVNT	BLE	2476	-2.59	120	-2.69	20	Pass
NVLT	BLE	2402	-3.9	161	-4	20	Pass
NVLT	BLE	2440	-2.8	161	-2.9	20	Pass
NVLT	BLE	2480	-3.13	161	-3.23	20	Pass
NVHT	BLE	2402	-3.96	161	-4.06	20	Pass
NVHT	BLE	2440	-2.7	161	-2.8	20	Pass
NVHT	BLE	2480	-2.93	161	-3.03	20	Pass

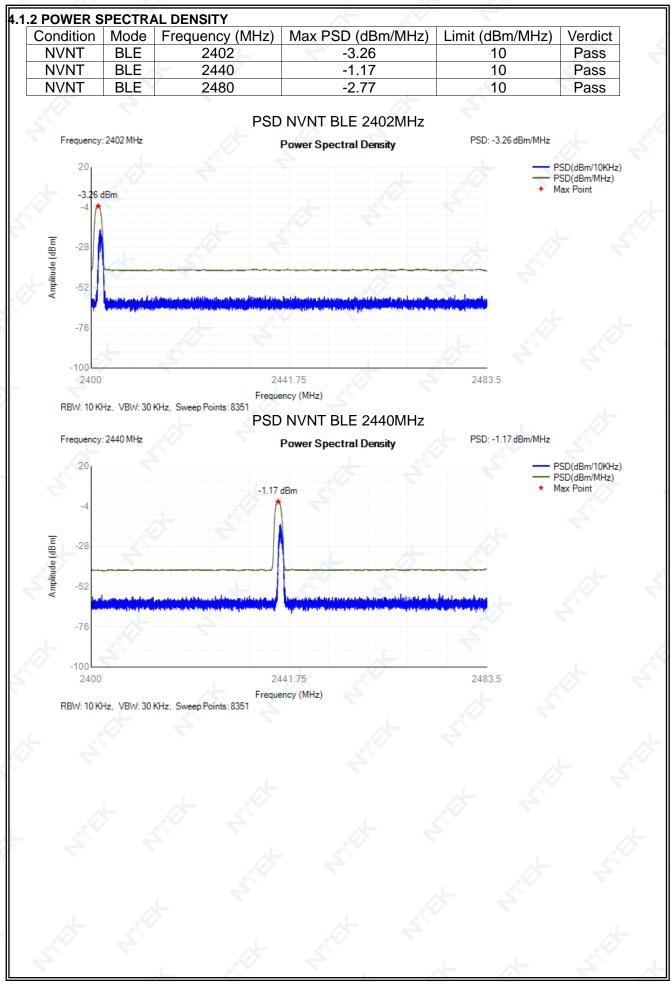


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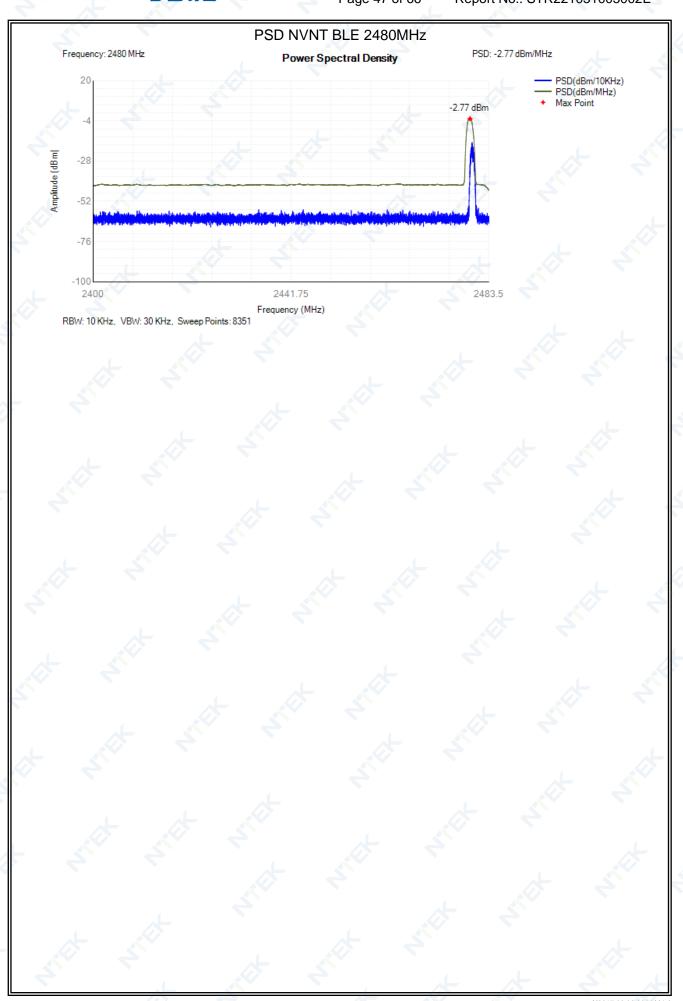
Report No.: STR221031005002E



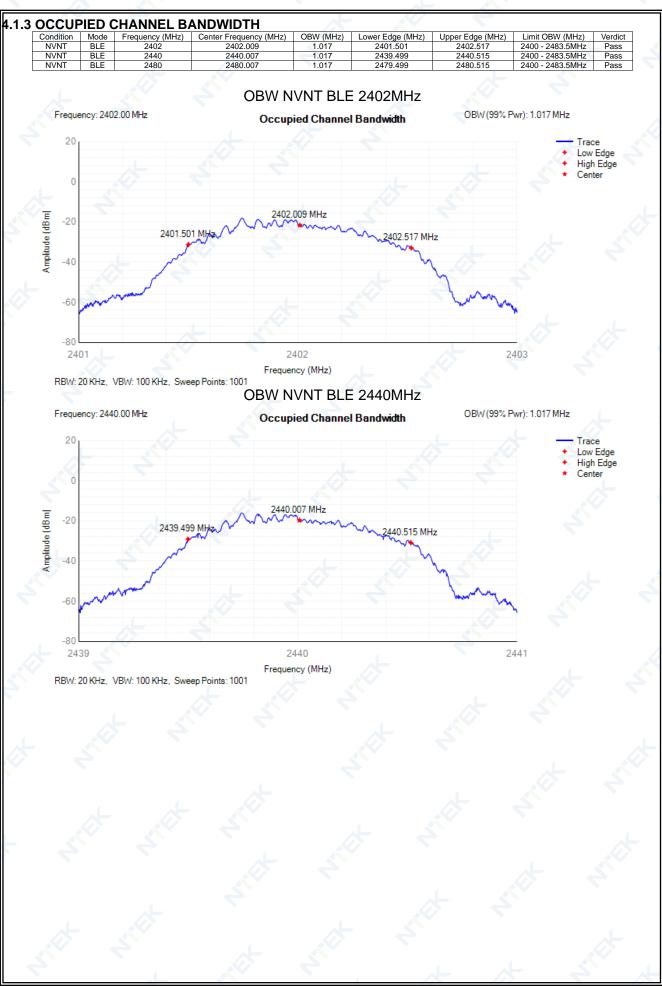
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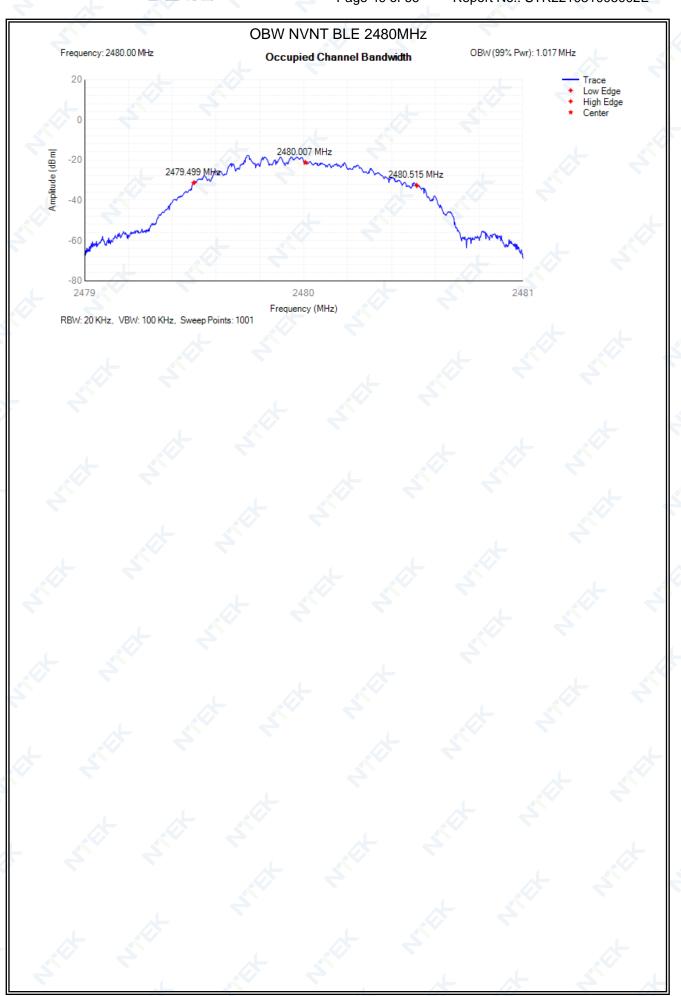
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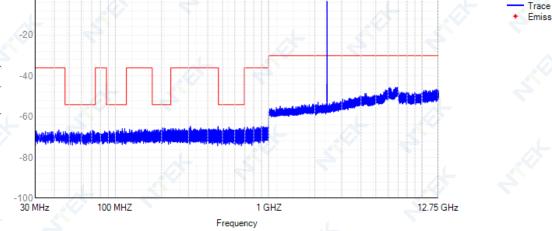
Report No.: STR221031005002E

condition	Mode	Frequency (MHz)	OOB Frequency (MHz)	Level (dBm/MHz)	Limit (dBm/MHz)	Verdic
NVNT	BLE	2402	2399.5	-63.03	-10	Pass
NVNT	BLE	2402	2399.483	-63.54	-10	Pass
NVNT	BLE	2402			-20	
			2398.483	-63.09		Pass
NVNT	BLE	2402	2398.466	-63.14	-20	Pass
NVNT	BLE	2480	2484	-62.77	-10	Pass
NVNT	BLE	2480	2484.017	-63.32	-10	Pass
NVNT	BLE	2480	2485.017	-62.6	-20	Pass
NVNT	BLE	2480	2485.034	-62.25	-20	Pass
Freque (	ency: 2402 MHz		issions OOB NVNT I runwanted emissions in t			- Limit
					•••••••••••••••••••••••••••••••	OOB
-20						
20	·					
-						
)9- Amplitude (dBm)						
-) ep						
biti 🗸						
ä60	)		+	*		
-80	)					
RBW: 1	7.466 1000 KHz, VBW		2398.733 Frequency (MHz) issions OOB NVNT I	BLE 2480MHz	2400	
239 RBW: 1	7.466	Tx. Emi	Frequency (MHz)		2400	¢
239 RBW: 1	7.466 1000 KHz, VBW	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	Limit OOB
239 RBW: 1	7.466 1000 KHz, VBW	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1	7.466 1000 KHz, VBM ency: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque	7.466 1000 KHz, VBM ency: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (	7.466 1000 KHz, VBM Incy: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (	7.466 1000 KHz, VBM Incy: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (	7.466 1000 KHz, VBM Incy: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque ( -20 ( ugp) -40	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (0 -20 (ugp) -40 -40	7.466	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (	7.466	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (0 -20 (ugp) -40 -40	7.466	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (0 -20 (ugp) -40 -40	7.466	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100	7.466	Tx. Emi	Frequency (MHz) 5001 issions OOB NVNT I		<u>بح</u> ج	
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			
239 RBW: 1 Freque (0 -20 [mgp] -40 -40 -80 -80 -100 24	7.466 1000 KHz, VBW ency: 2480 MHz	Tx. Emi	Frequency (MHz) Soon Soon OOB NVNT B Er unwanted emissions in the Solution of the solution			

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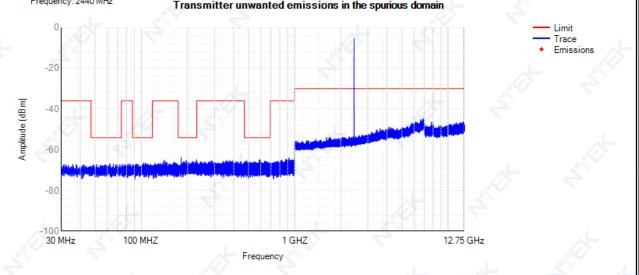
Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verd
NVNT	BLE	2402	30 MHz -47 MHz	42.75	-66.41	NA	-36	Pas
NVNT	BLE	2402	47 MHz -74 MHz	70.9	-66.56	NA	-54	Pas
NVNT	BLE	2402	74 MHz -87.5 MHz	84.95	-67.02	NA	-36	Pas
NVNT	BLE	2402	87.5 MHz -118 MHz	115.1	-65.74	NA	-54	Pas
NVNT	BLE	2402	118 MHz -174 MHz	157.65	-66.03	NA	-36	Pas
NVNT	BLE	2402	174 MHz -230 MHz	202.35	-65.48	NA	-54	Pas
NVNT	BLE	2402	230 MHz -470 MHz	309.05	-64.66	NA NA	-36	Pas
NVNT	BLE	2402	470 MHz -694 MHz	550.7	-65.04	NA	-54	Pas
NVNT	BLE	2402	694 MHz -1000 MHz	802.15	-64.53	NA	-36	Pas
NVNT	BLE	2402	1000 MHz -2398 MHz	2100.5	-52.72	NA	-30	Pas
NVNT	BLE	2402	2485.5 MHz -12750 MHz	6894.5	-45.49	NA	-30	Pas
NVNT	BLE	2440	30 MHz -47 MHz	42.05	-67.08	NA	-36	Pas
NVNT	BLE	2440	47 MHz -74 MHz	59.55	-66.73	NA	-54	Pas
NVNT	BLE	2440	74 MHz -87.5 MHz	82.55	-66.66	NA NA	-36	Pas
NVNT	BLE	2440	87.5 MHz -118 MHz	116.4	-66.19	NA	-54	Pas
NVNT	BLE	2440	118 MHz -174 MHz	144.5	-65.91	NA	-36	Pas
NVNT	BLE	2440	174 MHz -230 MHz	208.35	-64.64	NA	-54	Pas
NVNT	BLE	2440	230 MHz -470 MHz	407.5	-65.46	NA	-36	Pas
NVNT	BLE	2440	470 MHz -694 MHz	510.15	-63.84	NA	-54	Pas
NVNT	BLE	2440	694 MHz -1000 MHz	736.7	-63.32	NA	-36	Pas
NVNT	BLE	2440	1000 MHz -2398 MHz	1604	-52.3	NA	-30	Pas
NVNT	BLE	2440	2485.5 MHz -12750 MHz	6992	-45.44	NA	-30	Pas
NVNT	BLE	2480	30 MHz -47 MHz	36.85	-66.87	NA	-36	Pas
NVNT	BLE	2480	47 MHz -74 MHz	57.5	-66.2	NA	-54	Pas
NVNT	BLE	2480	74 MHz -87.5 MHz	85.15	-66.85	NA	-36	Pas
NVNT	BLE	2480	87.5 MHz -118 MHz	114.95	-66.28	NA	-54	Pas
NVNT	BLE	2480	118 MHz -174 MHz	164.7	-65.49	NA	-36	Pas
NVNT	BLE	2480	174 MHz -230 MHz	195.65	-65.11	NA	-54	Pas
NVNT	BLE	2480		309.95	-64.72	NA	-36	Pas
NVNT	BLE	2480	230 MHz -470 MHz	517.1		NA		
NVNT	BLE	2480	470 MHz -694 MHz		-64.53		-54	Pas
			694 MHz -1000 MHz	961.35	-62.89	NA		Pas
NVNT	BLE	2480	1000 MHz -2398 MHz	2332	-53.58	NA	-30	Pas
NVNT	BLE	2480	2485.5 MHz -12750 MHz	6962.5	-44.93	NA	-30	Pas
Free	quency: 2	402 MHz	-		SLE 2402MHz s in the spurious dom	ain		
	0						- Limit	
	Ŭ				· · · · · · · · · · · · · · · · · · ·		- Trace	
							<ul> <li>Emissi</li> </ul>	
		-					<ul> <li>Emiss</li> </ul>	ions
	-20							
	-20							
						· · · · · · · · · · · · · · · · · · ·		
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litude (dBm)					and the second	de de la trate		
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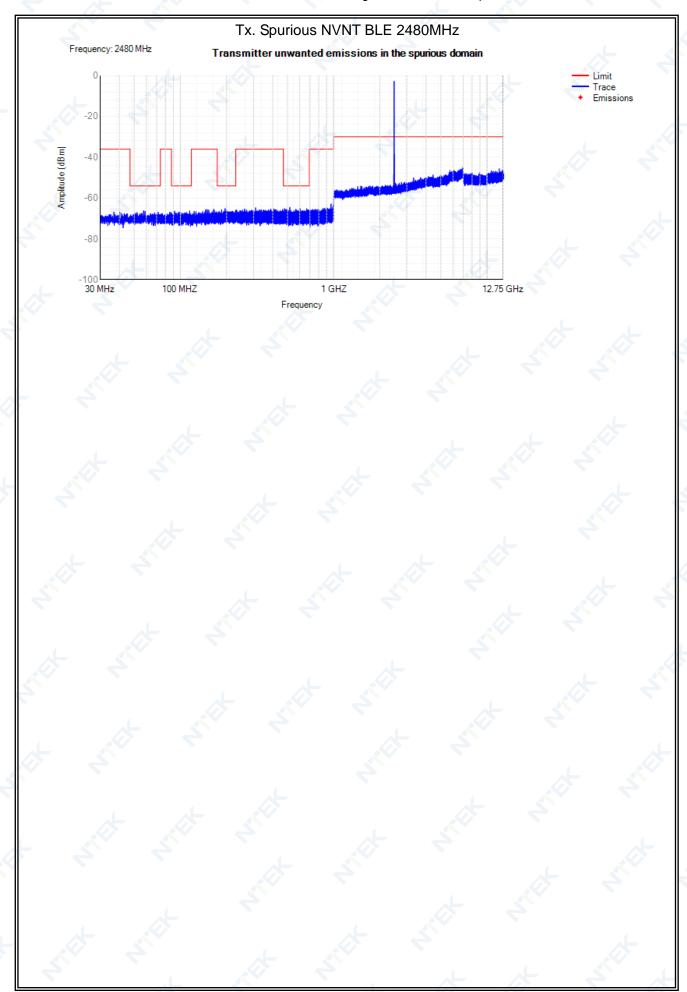
#### Tx. Spurious NVNT BLE 2440MHz



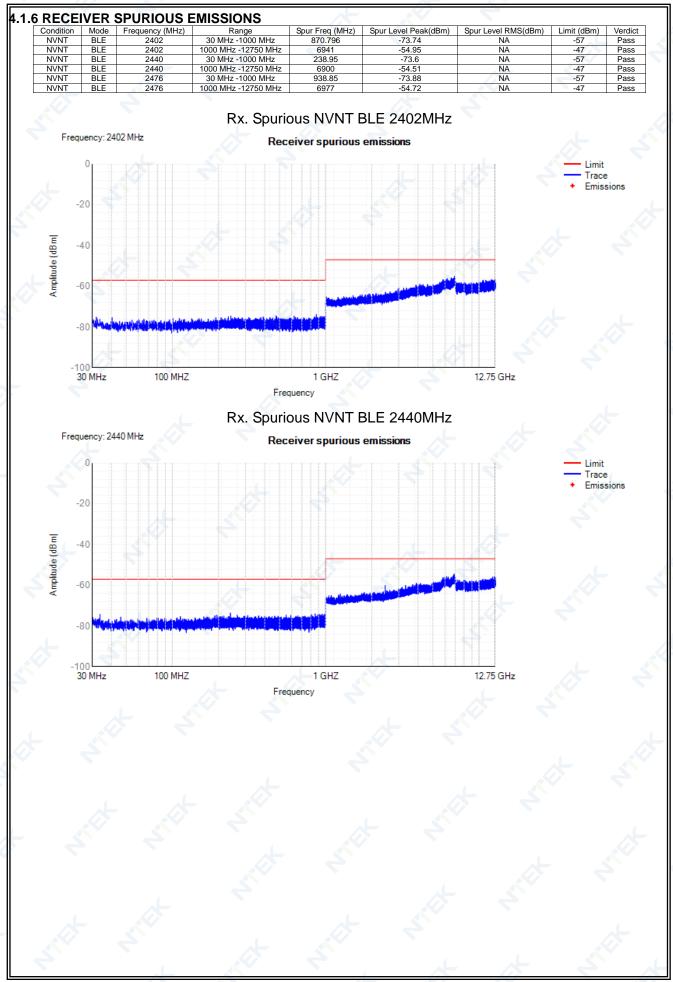
Transmitter unwanted emissions in the spurious domain



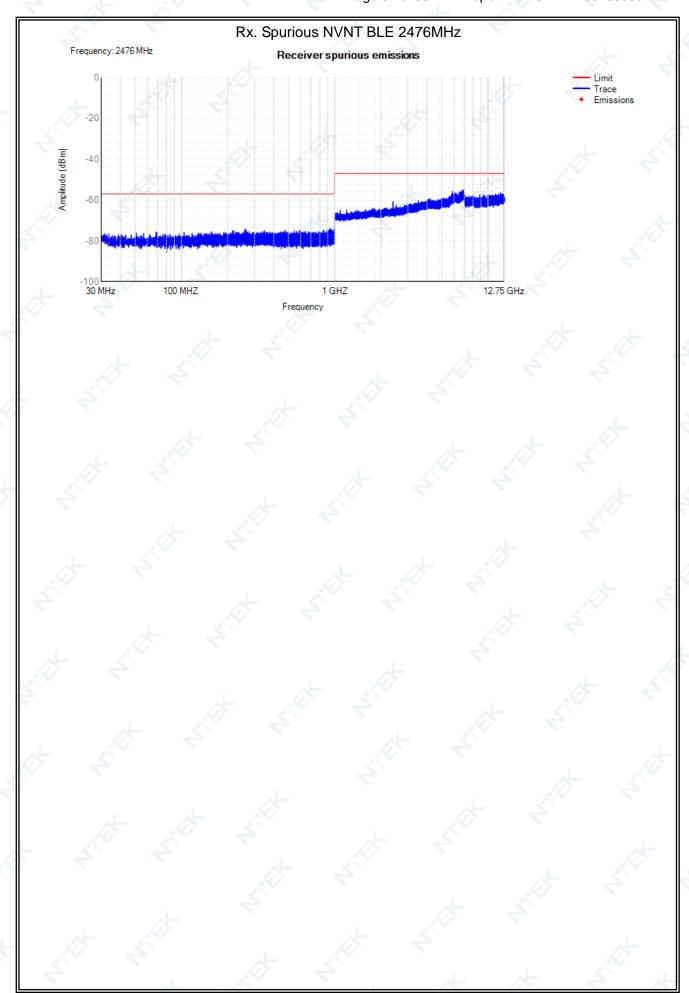
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#### 2M:

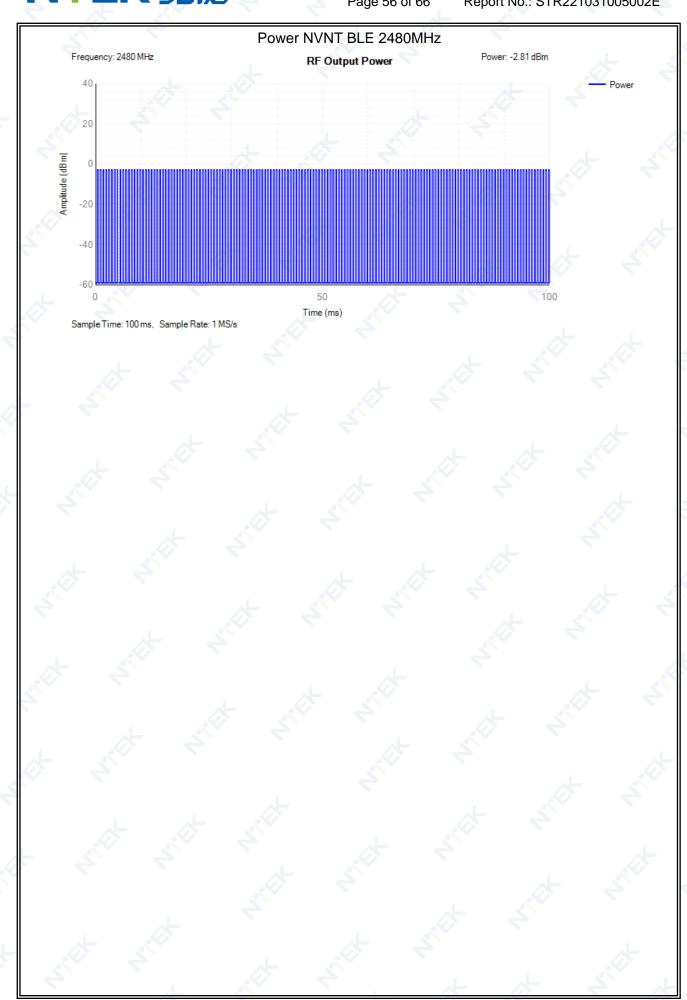
#### 4.2.1 RF OUTPUT POWER

Condition	Mode	Frequency	Max Burst RMS	Burst	Max EIRP	Limit	Verdict
		(MHz)	Power (dBm)	Number	(dBm)	(dBm)	
NVNT	BLE	2402	-3.19	<u> </u>	-3.29	20	Pass
NVNT	BLE	2440	-2.07	160	-2.17	20	Pass
NVNT	BLE	2480	-2.71	160	-2.81	20	Pass
NVLT	BLE	2402	-4.04	161	-4.14	20	Pass
NVLT	BLE	2440	-2.85	161	-2.95	20	Pass
NVLT	BLE	2480	-3.25	161	-3.35	20	Pass
NVHT	BLE	2402	-4.1	161	-4.2	20	Pass
NVHT	BLE	2440	-2.75	161	-2.85	20	Pass
NVHT	BLE	2480	-3.05	161	-3.15	20	Pass

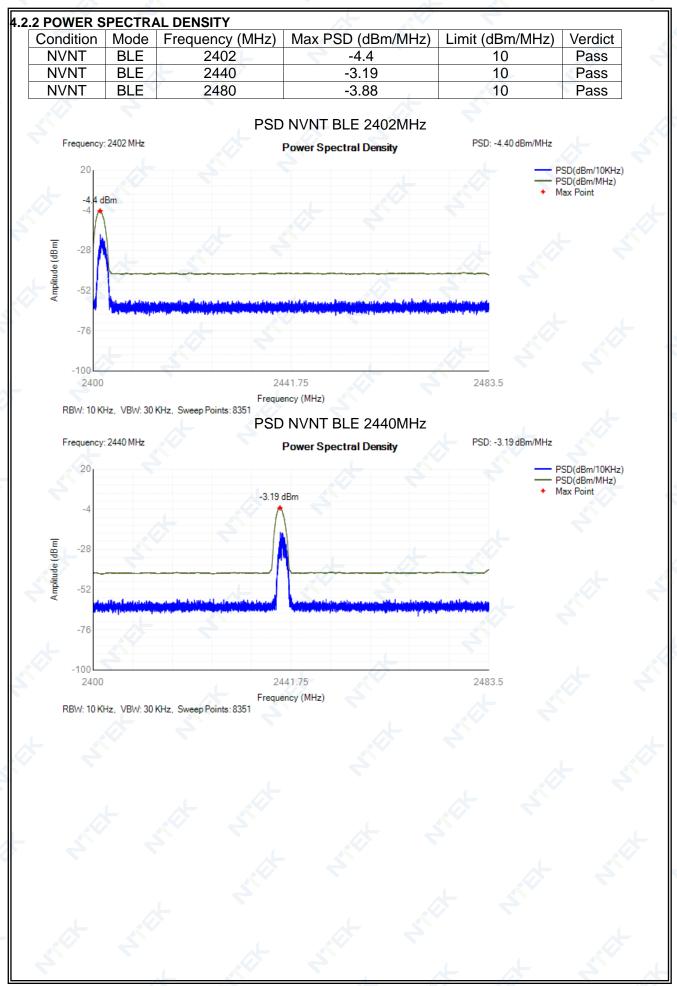


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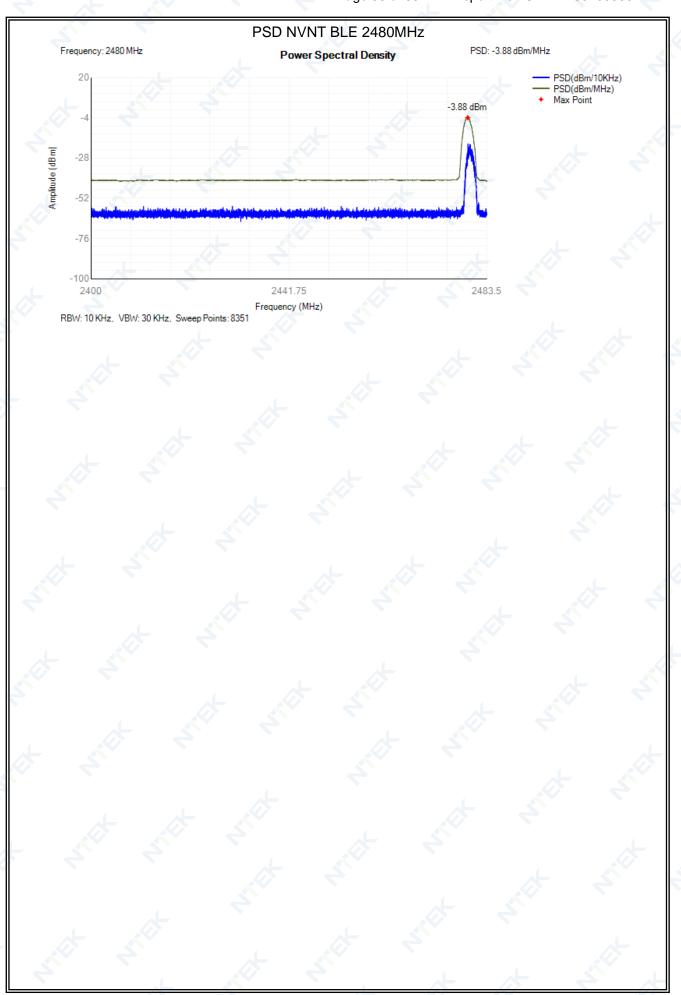
Report No.: STR221031005002E



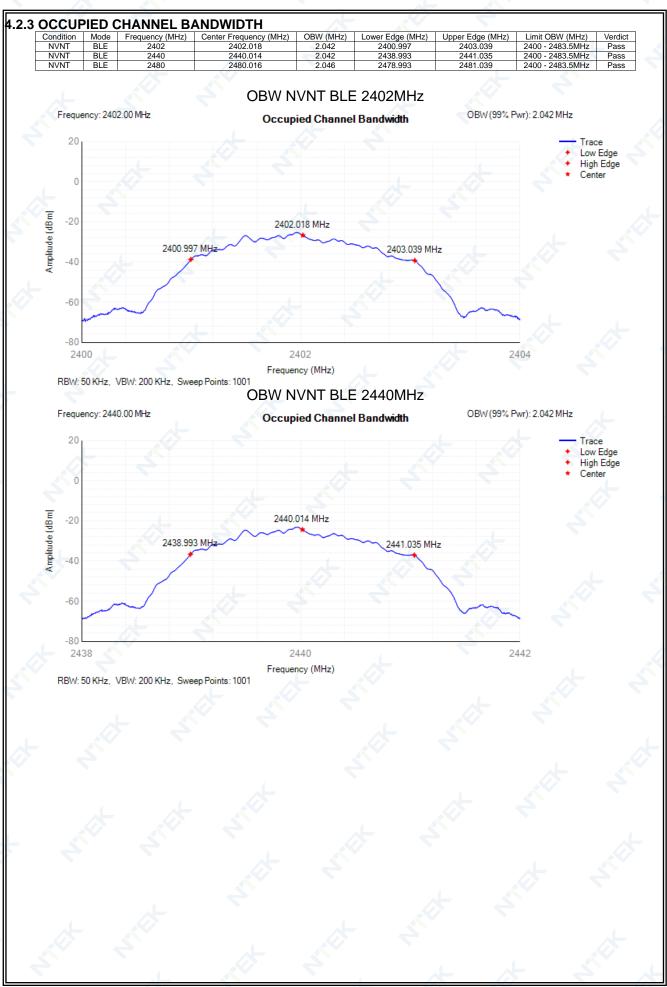
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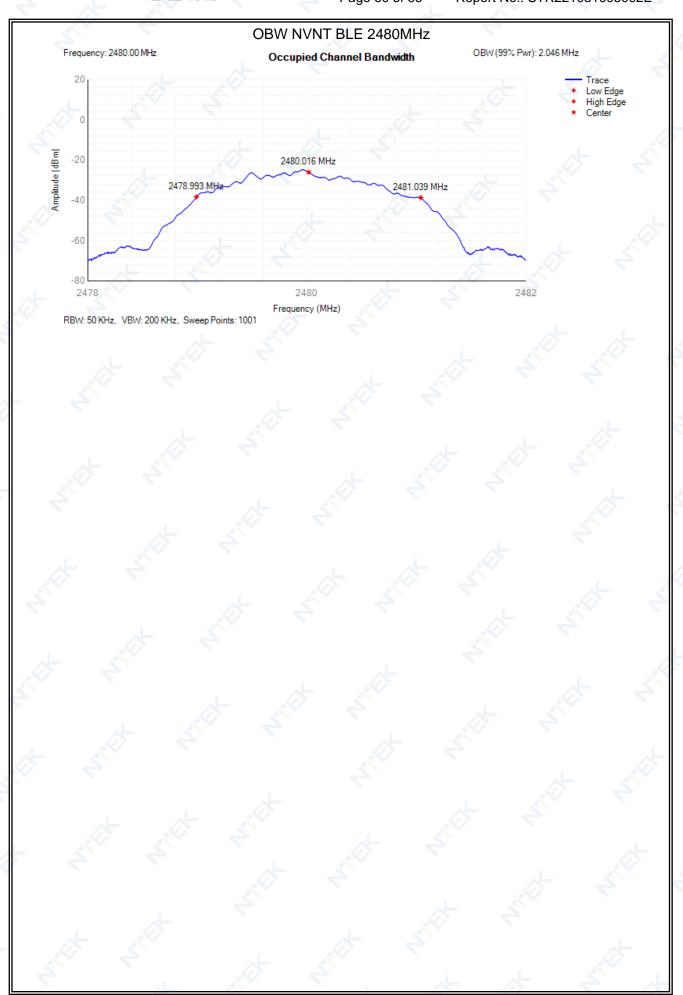
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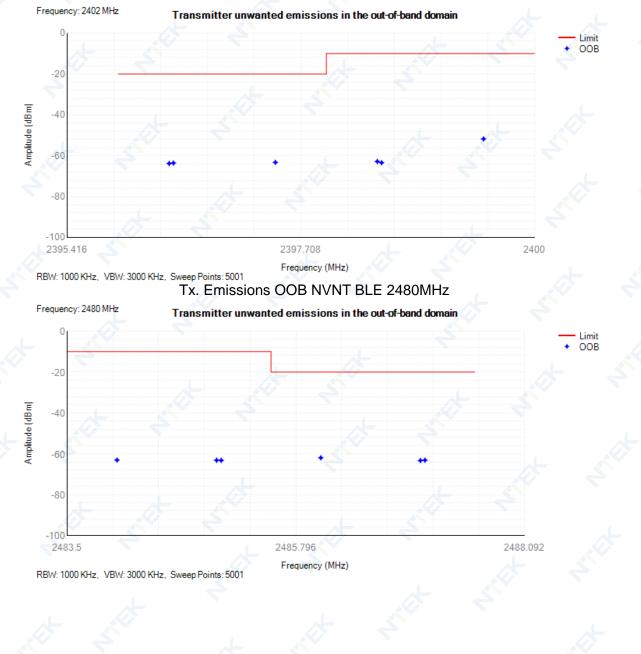


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4	.2.4 TRANSM		JNWANTED EMIS	SIONS IN THE OUT-	OF-BAND DOMAIN	N	
	Condition	Mode	Frequency	OOB Frequency	Level	Limit	Verdict
			(MHz)	(MHz)	(dBm/MHz)	(dBm/MHz)	
	NVNT	BLE	2402	2399.5	-51.75	-10	Pass
	NVNT	BLE	2402	2398.5	-63.4	-10	Pass
	NVNT	BLE	2402	2398.458	-62.8	-10	Pass
	NVNT	BLE	2402	2397.458	-63.25	-20	Pass
	NVNT	BLE	2402	2396.458	-63.56	-20	Pass
	NVNT	BLE	2402	2396.416	-63.79	-20	Pass
	NVNT	BLE	2480	2484	-63.09	-10	Pass
	NVNT	BLE	2480	2485	-63.17	-10	Pass
	NVNT	BLE	2480	2485.046	-63.24	-10	Pass
	NVNT	BLE	2480	2486.046	-61.97	-20	Pass
	NVNT	BLE	2480	2487.046	-63.33	-20	Pass
	NVNT	BLE	2480	2487.092	-63.14	-20	Pass

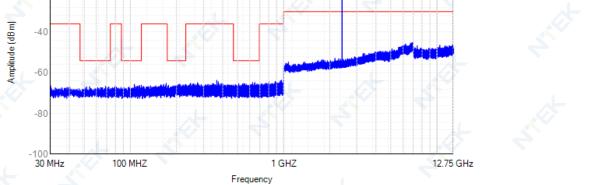
#### Tx. Emissions OOB NVNT BLE 2402MHz



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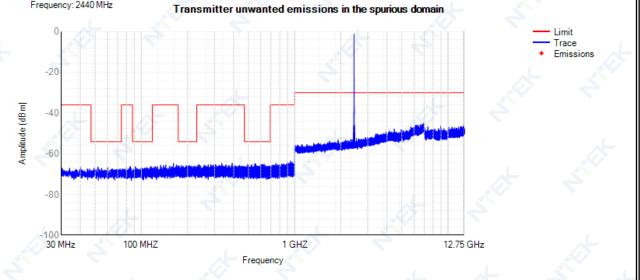
Report No.: STR221031005002E

de         Frequency (MHz)           E         2402           E         2402           E         2402           E         2402           E         2402	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdi
E 2402	30 MHz -47 MHz	30.1	-66.24	NA	-36	Pass
	47 MHz -74 MHz	68.85	-66.49	NA	-54	Pas
2402	74 MHz -87.5 MHz	79.3	-66.81	NA	-36	Pas
	87.5 MHz -118 MHz	106.2	-65.61	NA	-54	Pass
E 2402	118 MHz -174 MHz	171.4	-65.07	NA	-36	Pass
E 2402	174 MHz -230 MHz	208.45	-65.54	NA	-54	Pass
E 2402	230 MHz -470 MHz	366	-63.63	NA	-36	Pass
E 2402	470 MHz -694 MHz	647.25	-64.81	NA	-54	Pass
E 2402	694 MHz -1000 MHz	966.35	-63.6	NA	-36	Pass
E 2402	1000 MHz -2396 MHz	2159.5	-52.91	NA	-30	Pass
E 2402	2487.5 MHz -12750 MHz	6981.5	-44.86	NA	-30	Pass
E 2440	30 MHz -47 MHz	40.1	-66.67	NA	-36	Pass
E 2440	47 MHz -74 MHz	52.2	-66.57	NA	-54	Pass
E 2440	74 MHz -87.5 MHz	84.7	-66.11	NA	-36	Pass
E 2440	87.5 MHz -118 MHz	115.6	-66.27	NA	-54	Pass
E 2440	118 MHz -174 MHz	161.9	-64.71	NA	-36	Pass
E 2440	174 MHz -230 MHz	205.8	-65.64	NA	-54	Pass
E 2440	230 MHz -470 MHz	391.5	-64.65	NA	-36	Pass
E 2440	470 MHz -694 MHz	549.8	-64.83	NA	-54	Pass
E 2440	694 MHz -1000 MHz	940.25	-63.61	NA	-36	Pass
E 2440	1000 MHz -2396 MHz	2318.5	-52.99	NA	-30	Pass
E 2440	2487.5 MHz -12750 MHz	6952.5	-44.99	NA	-30	Pass
E 2480	30 MHz -47 MHz	44.2	-65.9	NA	-36	Pass
E 2480	🔍 🔍 47 MHz -74 MHz	66	-65.31	NA	-54	Pass
E 2480	74 MHz -87.5 MHz	78.65	-66.12	NA	-36	Pass
E 2480	87.5 MHz -118 MHz	88.05	-66.34	NA	-54	Pass
E 2480	118 MHz -174 MHz	121.75	-65.27	NA	-36	Pass
	174 MHz -230 MHz	207.1	-64.49	NA	-54	Pass
	230 MHz -470 MHz	433.4		NA	-36	Pass
E 2480	470 MHz -694 MHz	597.6	-64.56	NA	-54	Pass
	694 MHz -1000 MHz	940.05	-63.61	NA 🖉	-36	Pass
E 2480	1000 MHz -2396 MHz	1971	-53.07	NA 🔨	-30	Pass
E 2480	2487.5 MHz -12750 MHz	2488	-43.82	NA NA	-30	Pass
	E         2402           E         2402           E         2440           E         2480           E         2480	E         2402         1000 MHz -2396 MHz           E         2402         2487.5 MHz -12750 MHz           E         2440         30 MHz -47 MHz           E         2440         47 MHz -74 MHz           E         2440         47 MHz -74 MHz           E         2440         74 MHz -74 MHz           E         2440         74 MHz -74 MHz           E         2440         87.5 MHz -118 MHz           E         2440         118 MHz -174 MHz           E         2440         174 MHz -230 MHz           E         2440         230 MHz -470 MHz           E         2440         694 MHz -1000 MHz           E         2440         694 MHz -1000 MHz           E         2440         1000 MHz -2396 MHz           E         2440         2487.5 MHz -12750 MHz           E         2440         2487.5 MHz -12750 MHz           E         2480         30 MHz -47 MHz           E         2480         47 MHz -87.5 MHz           E         2480         87.5 MHz -118 MHz           E         2480         118 MHz -174 MHz           E         2480         174 MHz -87.5 MHz           E         2480	E         2402         1000 MHz -2396 MHz         2159.5           E         2402         2487.5 MHz -12750 MHz         6681.5           E         2440         30 MHz -47 MHz         6091.5           E         2440         47 MHz -74 MHz         40.1           E         2440         47 MHz -74 MHz         52.2           E         2440         74 MHz -75 MHz         84.7           E         2440         87.5 MHz -118 MHz         115.6           E         2440         118 MHz -174 MHz         161.9           E         2440         174 MHz -80 MHz         205.8           E         2440         230 MHz -470 MHz         391.5           E         2440         230 MHz -470 MHz         391.5           E         2440         694 MHz -1000 MHz         940.25           E         2440         1000 MHz -2366 MHz         2318.5           E         2440         1000 MHz -2360 MHz         6952.5           E         2440         2487.5 MHz -17250 MHz         66           E         2480         30 MHz -47 MHz         44.2           E         2480         74 MHz -87.5 MHz         78.65           E         2480	E         2402         1000 MHz -2396 MHz         2159.5         -52.91           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86           E         2440         30 MHz -47 MHz         40.1         -66.67           E         2440         47 MHz -74 MHz         52.2         -66.57           E         2440         74 MHz -87.5 MHz         84.7         -66.11           E         2440         87.5 MHz -118 MHz         115.6         -66.27           E         2440         118 MHz -174 MHz         161.9         -64.71           E         2440         174 MHz -30 MHz         205.8         -65.64           E         2440         174 MHz -694 MHz         391.5         -64.65           E         2440         230 MHz -470 MHz         391.5         -64.65           E         2440         470 MHz -694 MHz         549.8         -64.83           E         2440         694 MHz -1000 MHz         940.25         -63.61           E         2440         1000 MHz -2396 MHz         2318.5         -52.99           E         2440         2487.5 MHz         77.5 MHz         66         -66.31           E         2480 </td <td>E         2402         1000 MHz -2396 MHz         2159.5         -52.91         NA           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86         NA           E         2440         30 MHz -47 MHz         40.1         -66.67         NA           E         2440         47 MHz -74 MHz         52.2         -66.57         NA           E         2440         74 MHz -87.5 MHz         84.7         -66.11         NA           E         2440         87.5 MHz -118 MHz         115.6         -66.27         NA           E         2440         118 MHz -174 MHz         161.9         -64.71         NA           E         2440         174 MHz -300 MHz         205.8         -65.64         NA           E         2440         174 MHz -694 MHz         391.5         -64.65         NA           E         2440         470 MHz -694 MHz         549.8         -64.83         NA           E         2440         694 MHz -1000 MHz         940.25         -63.61         NA           E         2440         1000 MHz -2396 MHz         2318.5         -52.99         NA           E         2440         1000 MHz -477 MHz         44.2<td>E         2402         1000 MHz -2396 MHz         2159.5         -52.91         NA         -30           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86         NA         -30           E         2440         30 MHz -47 MHz         40.1         -66.67         NA         -36           E         2440         47 MHz -74 MHz         52.2         -66.57         NA         -54           E         2440         74 MHz -87.5 MHz         84.7         -66.11         NA         -36           E         2440         87.5 MHz -118 MHz         115.6         -66.27         NA         -54           E         2440         118 MHz -174 MHz         161.9         -64.71         NA         -36           E         2440         114 MHz -300 MHz         205.8         -65.64         NA         -36           E         2440         230 MHz -470 MHz         391.5         -64.65         NA         -36           E         2440         470 MHz -694 MHz         549.8         -64.83         NA         -54           E         2440         694 MHz -1000 MHz         290.25         -63.61         NA         -36           E         &lt;</td></td>	E         2402         1000 MHz -2396 MHz         2159.5         -52.91         NA           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86         NA           E         2440         30 MHz -47 MHz         40.1         -66.67         NA           E         2440         47 MHz -74 MHz         52.2         -66.57         NA           E         2440         74 MHz -87.5 MHz         84.7         -66.11         NA           E         2440         87.5 MHz -118 MHz         115.6         -66.27         NA           E         2440         118 MHz -174 MHz         161.9         -64.71         NA           E         2440         174 MHz -300 MHz         205.8         -65.64         NA           E         2440         174 MHz -694 MHz         391.5         -64.65         NA           E         2440         470 MHz -694 MHz         549.8         -64.83         NA           E         2440         694 MHz -1000 MHz         940.25         -63.61         NA           E         2440         1000 MHz -2396 MHz         2318.5         -52.99         NA           E         2440         1000 MHz -477 MHz         44.2 <td>E         2402         1000 MHz -2396 MHz         2159.5         -52.91         NA         -30           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86         NA         -30           E         2440         30 MHz -47 MHz         40.1         -66.67         NA         -36           E         2440         47 MHz -74 MHz         52.2         -66.57         NA         -54           E         2440         74 MHz -87.5 MHz         84.7         -66.11         NA         -36           E         2440         87.5 MHz -118 MHz         115.6         -66.27         NA         -54           E         2440         118 MHz -174 MHz         161.9         -64.71         NA         -36           E         2440         114 MHz -300 MHz         205.8         -65.64         NA         -36           E         2440         230 MHz -470 MHz         391.5         -64.65         NA         -36           E         2440         470 MHz -694 MHz         549.8         -64.83         NA         -54           E         2440         694 MHz -1000 MHz         290.25         -63.61         NA         -36           E         &lt;</td>	E         2402         1000 MHz -2396 MHz         2159.5         -52.91         NA         -30           E         2402         2487.5 MHz -12750 MHz         6981.5         -44.86         NA         -30           E         2440         30 MHz -47 MHz         40.1         -66.67         NA         -36           E         2440         47 MHz -74 MHz         52.2         -66.57         NA         -54           E         2440         74 MHz -87.5 MHz         84.7         -66.11         NA         -36           E         2440         87.5 MHz -118 MHz         115.6         -66.27         NA         -54           E         2440         118 MHz -174 MHz         161.9         -64.71         NA         -36           E         2440         114 MHz -300 MHz         205.8         -65.64         NA         -36           E         2440         230 MHz -470 MHz         391.5         -64.65         NA         -36           E         2440         470 MHz -694 MHz       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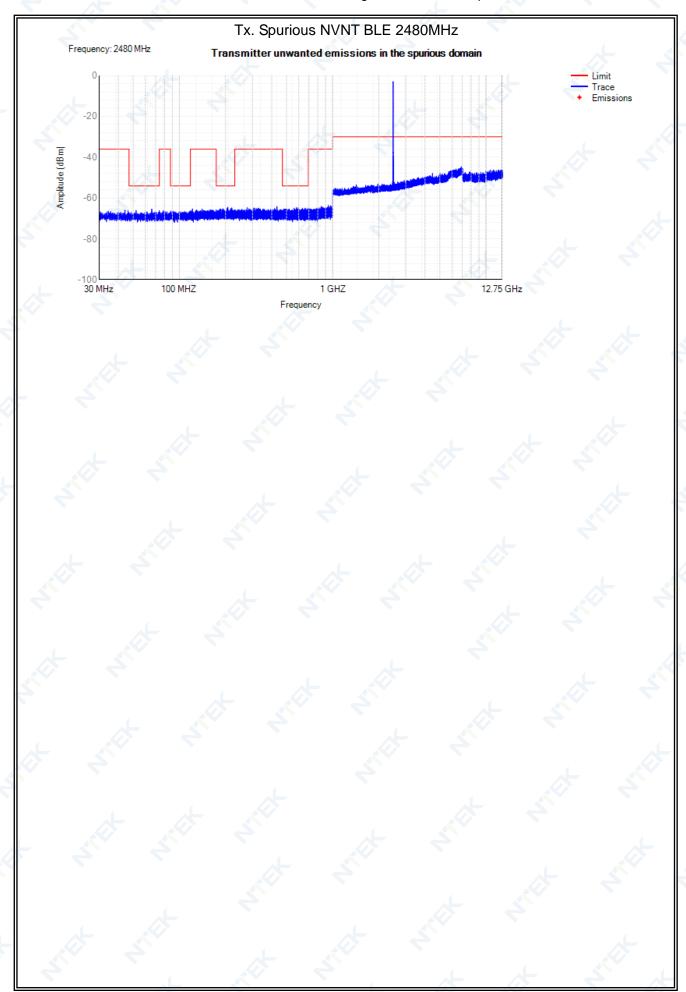


#### Tx. Spurious NVNT BLE 2440MHz

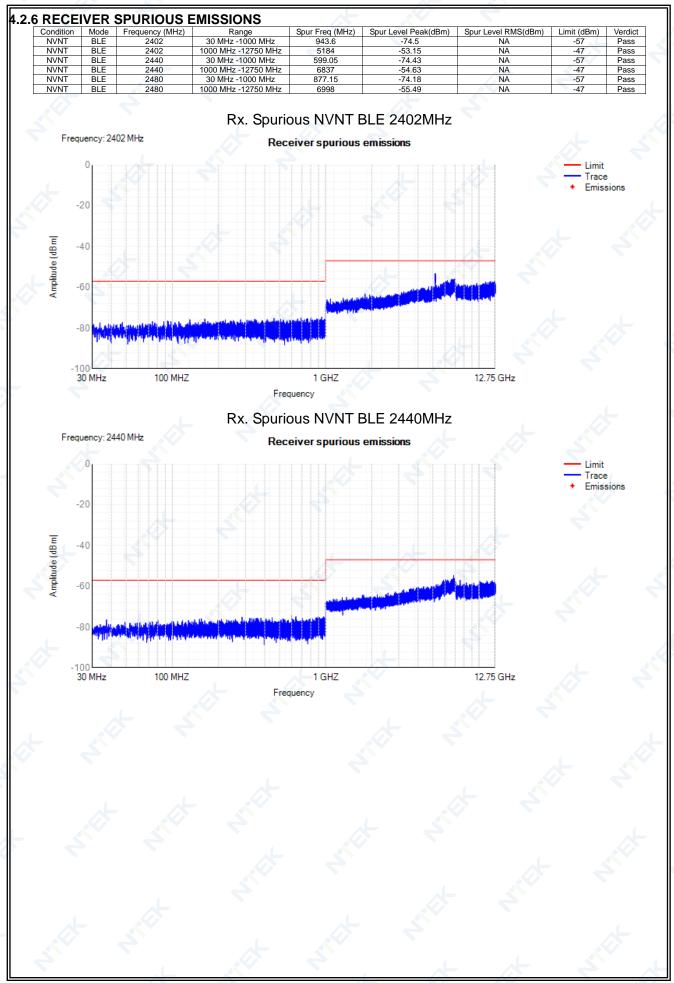




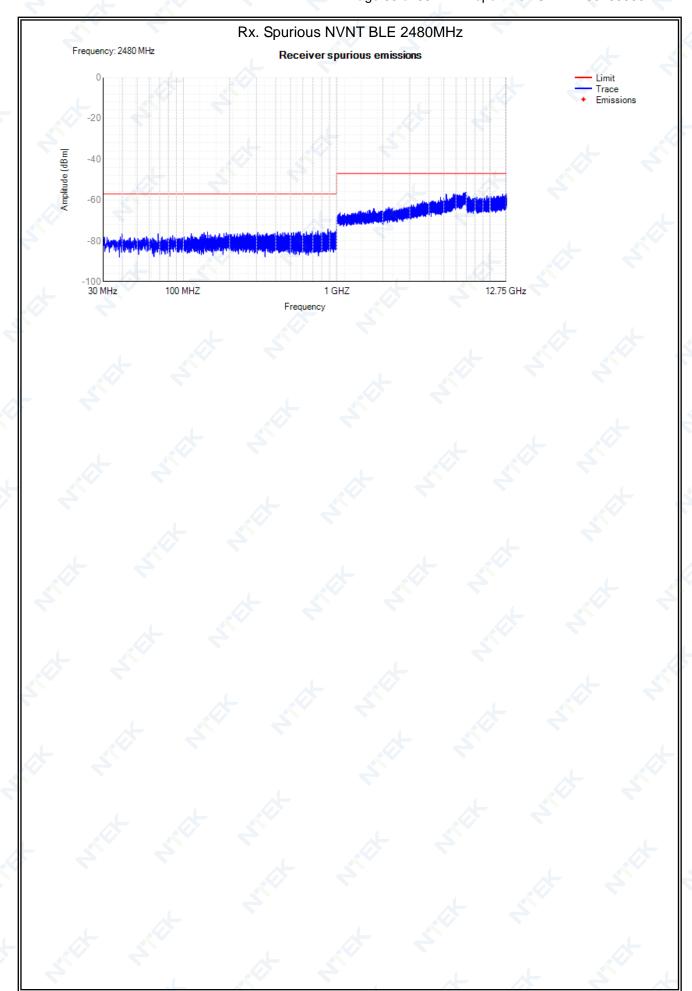
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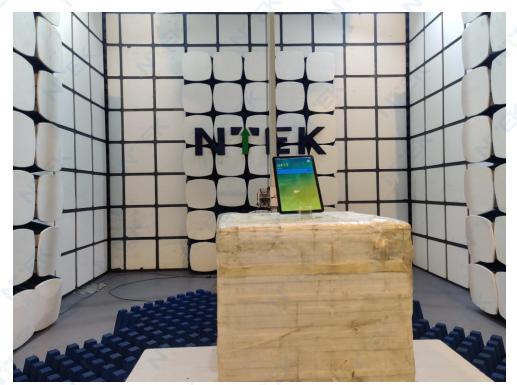
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### 5. EUT TEST PHOTO

### SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT