

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

Product: 4G Tablet

Trade Mark: Blackview

Model Name: Tab 6

Family Model: N/A

Report No.: STR210908002002E

Prepared for

DOKE COMMUNICATION (HK) LIMITED.
RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG
CHINA.

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name...... DOKE COMMUNICATION (HK) LIMITED. Address..... RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HONG KONG CHINA. Manufacturer's Name: Shenzhen DOKE Electronic Co., Ltd. Guangming District, Shenzhen, China. **Product description** Product name: 4G Tablet Trademark Blackview Model Name Tab 6 Family Model...... N/A **Standards**..... ETSI EN 300 328 V2.2.2 (2019-07) This device described above has been tested by Shenzhen NTEK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report. This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK, this document may be altered or revised by Shenzhen NTEK, personnel only, and shall be noted in the revision of the document. Date of Test..... Date (s) of performance of tests: 08 Sep. 2021 ~ 08 Oct. 2021 Date of Issue: 08 Oct. 2021 Test Result: **Testing Engineer** (Mary Hu) Authorized Signatory (Alex Li)

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Revision History

		7,3	
Report No.	Version	Description	Issued Date
STR210908002002E	Rev.01	Initial issue of report	08 Oct. 2021
5 50 1	2	# 5 5	* # 5
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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

	2.4		
Equipment	4G Tablet	F 19 1 1 1	
Trade Mark	Blackview Tab 6 N/A		
Model Name.			
Family Model			
Model Difference	N/A		
	The EUT is 4G Tablet		
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	GFSK	
	Adaptive/non-adaptive	Adaptive equipment	
Product Description	Receiver categories	3	
	Number Of Channel	Please see Note 2.	
	Antenna Designation: PIFA Antenna		
	Antenna Gain(Peak)	0.92dBi	
	74	2 3	
Channel List	Refer to below		
Adapter	Model: HJ-0501000N2-EU Input: 100-240V~50/60Hz 0.15A Output: 5.0V1.0A 5.0W		
Battery	DC 3.8V, 5580mAh		
Rating	DC 3.8V from battery or DC 5V from Adapter.		
I/O Ports	Refer to users manual		
Hardware Version	S866T-T310-V1.0		
Software Version	Tab6_EEA_S886T_V1.0		
		A. C.	



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Note:

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

2.

Frequency (MHz)
2402
2404
·
A
2478
2480

1.2 INFORMATION ABOUT THE EUT
a) The type of modulation used by the equipment:
☐ FHSS
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
☐ 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: / μs
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 A A
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 A S
Transmitter unwanted emissions in the OOB domain
GFSK S
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™ [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)
Oligie spatial stream / Standard throughput / (e.g. IEEE 002.11 [i.o] legacy mode)





High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1 High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2 NOTE 1: Add more lines if more channel bandwidths are supported. Operating mode 3: Smart Antenna Systems - Multiple Antennas with beam forming Single spatial stream / Standard throughput (e.g. IEEE 802.11™ [i.3] legacy mode) High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 1 High Throughput (> 1 spatial stream) using Nominal Channel Bandwidth 2 NOTE 2: Add more lines if more channel bandwidths are supported. h) In case of Smart Antenna Systems: • The number of Receive chains: • The number of Transmit chains: symmetrical power distribution asymmetrical power distribution In case of beam forming, the maximum (additional) beam forming gain: NOTE: The additional beam forming gain does not include the basic gain of a single antenna. i) Operating Frequency Range(s) of the equipment: Operating Frequency Range 1: 2402 MHz to 2480 MHz Operating Frequency Range 2: MHz to MHz NOTE: Add more lines if more Frequency Ranges are supported. j) Nominal Channel Bandwidth(s): Nominal Channel Bandwidth 1: 1.017MHz(1M) 2.042 MHz(2M) Nominal Channel Bandwidth 2: MHz NOTE: Add more lines if more channel bandwidths are supported. k) Type of Equipment (stand-alone, combined, plug-in radio device, etc.): Combined Equipment (Equipment where the radio part is fully integrated within another type of equipment) Plug-in radio device (Equipment intended for a variety of host systems) I) The normal and the extreme operating conditions that apply to the equipment: Normal operating conditions (if applicable): Operating temperature: 15 ℃~35 ℃ Other (please specify if applicable): **Extreme operating conditions:** Operating temperature range: Minimum: -10°C Maximum 40°C Other (please specify if applicable): Minimum: Maximum . Details provided are for the: xtand-alone equipment combined (or host) equipment test jig



The intended combin	ation(s) of the radio ed	quipment power settin	gs and one or more antenna
24 5	corresponding e.i.r.p.		
Antenna Type: PIFA		19 3	. 25.
_	34/	ed in case of conducted	measurements)
Antenna Gain:0.9	4		× 100
- 40		excluding basic antenna	a gain): dB
	F connector provided	- 5	
_	RF connector provided		3
47	as (equipment with ante	//5	* 3
	level with corresponding		
	er settings and correspo		4
	ent Power Levels:		5
Power Level 1: .	dBm	. 5	At Les
Power Level 2: .		A	+ 24 -
Power Level 3: .		5	4
NOTE 1: Add m	ore lines in case the equ	uipment has more powe	r levels.
A Comment of the Comm		Ui	30
		icleu powei ieveis (al an	itenna connector).
			es their corresponding gains
For each of the Power	Levels, provide the inte	nded antenna assembli	es, their corresponding gains
For each of the Power 6) and the resulting e.i.	Levels, provide the inte	nded antenna assembli	
For each of the Power 6) and the resulting e.i. Power Level 1:	Levels, provide the inte r.p. levels also taking in dBm	nded antenna assembli	es, their corresponding gains ming gain (Y) if applicable
For each of the Power and the resulting e.i. Power Level 1: Number of anter	Levels, provide the inte r.p. levels also taking in dBm	nded antenna assemblion account the beamfor	es, their corresponding gains ming gain (Y) if applicable
For each of the Power 6) and the resulting e.i. Power Level 1: Number of anter Assembly #	Levels, provide the inte r.p. levels also taking in dBm nna assemblies provide	nded antenna assemblion account the beamford for this power level:	es, their corresponding gains ming gain (Y) if applicable
For each of the Power 6) and the resulting e.i. Power Level 1: Number of anter Assembly #	Levels, provide the inte r.p. levels also taking in dBm nna assemblies provide Gain (dBi)	nded antenna assemblion account the beamford don't this power level: e.i.r.p. (dBm)	es, their corresponding gains ming gain (Y) if applicable
For each of the Power 6) and the resulting e.i. Power Level 1: Number of anter Assembly # 1M	Levels, provide the inte r.p. levels also taking in	nded antenna assemblication account the beamford differ this power level: e.i.r.p. (dBm) 2.69	es, their corresponding gains ming gain (Y) if applicable
For each of the Power and the resulting e.i. Power Level 1: Number of anter Assembly # 1M 2M	Levels, provide the inte r.p. levels also taking in dBm nna assemblies provide Gain (dBi) 0.92 0.92	ended antenna assemblication account the beamford differ this power level: e.i.r.p. (dBm) 2.69 2.61	es, their corresponding gains ming gain (Y) if applicable
For each of the Power 3) and the resulting e.i. Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m	Levels, provide the inte	ended antenna assemblication account the beamford differ this power level: e.i.r.p. (dBm) 2.69 2.61	es, their corresponding gains ming gain (Y) if applicable Part number or model name
For each of the Power 6) and the resulting e.i. Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2:	Levels, provide the inte	ended antenna assemblicato account the beamford differential for this power level: e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are	es, their corresponding gains ming gain (Y) if applicable Part number or model name
Power Level 2: Number of anter NOTE 3: Add m Power Level 2: Number of anter	Levels, provide the inte	ended antenna assemblicato account the beamford differential for this power level: e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # NOTE 3: Add m Power Level 2: Number of anter Assembly #	Levels, provide the inte	ended antenna assemblicato account the beamford differential for this power level: e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # NOTE 3: Add m Power Level 2: Number of anter Assembly #	Levels, provide the inte	ended antenna assemblicato account the beamford differential for this power level: e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are	es, their corresponding gains ming gain (Y) if applicable Part number or model name
Power Level 1: Number of anter Assembly # NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 M 2 M Power Level 2: Number of anter Assembly # 1	Levels, provide the inte	ended antenna assemblicato account the beamford differential for this power level: e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level.
For each of the Power 6) and the resulting e.i. Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3	Levels, provide the inte r.p. levels also taking in ma assemblies provide Gain (dBi) 0.92 0.92 ore rows in case more a ma assemblies provide Gain (dBi)	e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are d for this power level: e.i.r.p. (dBm) 2.69	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name
Power Level 1: Number of anter Assembly # NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 Assembly #	Levels, provide the inte r.p. levels also taking in ma assemblies provide Gain (dBi) 0.92 0.92 ore rows in case more a massemblies provide Gain (dBi) Gain (dBi)	e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are d for this power level: e.i.r.p. (dBm) 2.69	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level.
Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3:	Levels, provide the inte r.p. levels also taking in	e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are d for this power level: e.i.r.p. (dBm) 2.69	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name supported for this power level.
For each of the Power G) and the resulting e.i. Power Level 1: Number of anter Assembly # 1M 2M NOTE 3: Add m Power Level 2: Number of anter Assembly # 1 2 3 NOTE 4: Add m Power Level 3:	Levels, provide the inte r.p. levels also taking in	e.i.r.p. (dBm) 2.69 2.61 antenna assemblies are d for this power level: e.i.r.p. (dBm) 2.69 2.61	es, their corresponding gains ming gain (Y) if applicable Part number or model name supported for this power level. Part number or model name supported for this power level.

Assembly #	Gain (dBi)	e.i.r.p. (dBm)	Part number or model name
1	5		+ 19
2	4		W 2 15.
3	L 55	45	5

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





n) The nominal voltages of the stand-alone radio equipment or the nominal voltages of the combined (host) equipment or test jig in case of plug-in devices: Details provided are for the: combined (or host) equipment test jig Supply Voltage AC mains State AC voltage\ 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 802.15.4™ [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 defined 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 equipment (see clause 4.3.1.12.3 or clause 4.3.2.11.3): GFSK(CH39)=0.97%





1.3 TEST CONDITIONS AND CHANNEL

	Normal Test Conditions	Extreme Test Conditions
Temperature	15℃ - 35℃	40°C ~ -10°C Note: (1)
Relative Humidity	20% - 75 <mark>%</mark>	N/A
Supply Voltage	DC 3.8V	1 2 4 5

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

Note:

- (1) The HT 40°C and LT -10°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.



1.4 DESCRIPTION OF TEST CONDITIONS

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1.5 DESCRIPTION OF SUPPORT UNITS

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.

	/ 7%	h			Aller A W
Item	Equipment	Brand	Model/Type No.	Series No.	Note
E-1	4G Tablet	Blackview	Tab 6	N/A	EUT
4	4 4	- 4	.~	*	
+ 5	7	4		350	A 5
	A.	2	L 29	*	5
4	4		Ø 2	1 5	ــــــــــــــــــــــــــــــــــــــ
1		4		5	4 20
		5	4		100

	27 19			2 4	
Item	Type	Shielded Type	Ferrite Core	Length	Note
2		D &	L &	4	. 8
	4	5	4	- (-	AT .
4	M	大	2	AT 3	* t
4	7	1	A)	- 4	24
5		4	L &	,	+ -

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 <code>"Length_"</code> column.





1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

			417			
EQUIPMENT TYPE	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrat ion period
EMI Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	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	2021.03.29	2022.03.28	1 year
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2021.04.27	2022.04.26	1 year
Test Cable (30MHz-1GHz)	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835S E	980246	2021.07.01	2022.06.30	1 year
Spectrum Analyzer	Agilent	E4407B	MY45108040	2021.04.27	2022.04.26	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	2021.07.01	2022.06.30	1 year
ESG VETCTOR SIGNAL GENERAROR	Agilent	E4438C	MY45093347	2021.04.27	2022.04.26	1 year
PSG Analog Signal Generator	Agilent	E8257D	MY51110112	2021.07.01	2022.06.30	1 year
Power Splitter	Mini-Circuits/U SA	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	2021.07.01	2022.06.30	1 year
MXG Vector Signal Generator	Agilent	N51 <mark>8</mark> 2A	MY47070317	2021.04.27	2022.04.26	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2021.07.01	2022.06.30	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
Temperature & Humitidy Chamber	GIANT FORCE	GTH-056P	GF-94454-1	2021.04.27	2022.04.26	1 year

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



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

	ETSI EN 300 328 V2.2.2 (2019-07)	
Clause	Test Item	Results
+ 0	TRANSMITTER PARAMETERS	DF 24
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	Pass
	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.





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

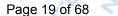
CNAS Registration No.:L5516

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 uncertainty

	Modear of the transfer and	
No.	Item 🖟	Uncertainty (P=95)
47	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℃
7	Humidity	± 2.0%
8	Time	± 1.0%





3. TEST PROCEDURES AND RESUTLS

3.1 EQUIVALENT ISOTROPIC RADIATED POWER

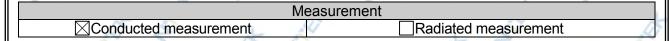
3.1.1 LIMITS OF EQUIVALENT ISOTROPIC RADIATED POWER

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

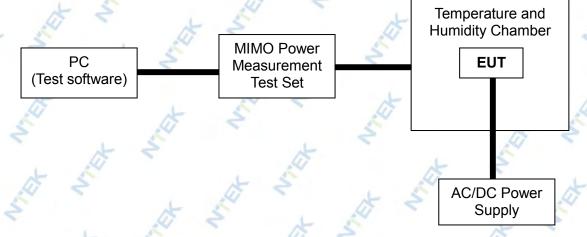
RF OUTPUT POWER		
Condition	Limit	
□ Non-adaptive wide band modulations systems	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.	
Adaptive wide band modulations systems	≤20dBm	

3.1.2 TEST PROCEDURE

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



3.1.3 TEST SETUP





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3.1.4 TEST RESULTS

			The second secon
EUT:	4G Tablet	Model Name :	Tab 6
Temperature :	20℃	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)

10.0. 10 0.00 10.00				
RF OUTPUT POWER				
Condition	Limit			
For equipment using wide band modulations other than FHSS	≤10 dBm/MHz			

3.2.2 TEST PROCEDURE

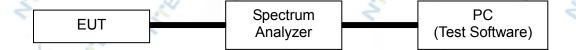
Refer to chapter 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Measurement		
	Radiated measurement	

The setting of the Spectrum Analyzer

The setting of the Spectrum An	alyzei
Start Frequency	2400MHz
Stop Frequency	2483.5MHz
Detector	RMS
+ 5	> 8 350; for spectrum analysers not supporting this number of
Sweep Point	sweep points, the
2 5	frequency band may be segmented
45 5	For non-continuous transmissions: 2 × Channel Occupancy Time
+ 5	× number of sweep points
Sweep time:	For continuous transmissions: 10 s; the sweep time may be
To the second	increased further until a value where the sweep time has no
4 5	further impact anymore on the RMS value of the signal.
RBW / VBW	10KHz / 30KHz

3.2.3 TEST SETUP





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3.2.4 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 6
Temperature :	26℃	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH19/CH39)	D 5	2 1 1 2

Test data reference attachment



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3.3. OCCUPIED CHANNEL BANDWIDTH

3.3.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH

Refer to chapter 4.3.2.7.3 of ETSI EN 300 328 V2.2.2 (2019-07)

10 014 0101 1:0:2:1:0 01 2 1 01 21 000 020 12:2:2 (2010 01)				
OCCUPIED CHANNEL BANDWIDTH				
	Condition	Limit		
All types of equip	oment 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)

	/		
	Mea	surement	
⊠Conducted	l measurement	☐Radiated measurement	
The setting of the Spe	ctrum Analyzer	A & A	4
Center Frequency		of the channel under test	

Center Frequency	The centre frequency of the channel under test
Frequency Span	2 × Nominal Channel Bandwidth
Detector	RMS A S
RBW	~ 1 % of the span without going below 1 %
VBW	3 × RBW
Trace	Max hold
Sweep time	1s 2 2

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

207	(17		
EUT:	4G Tablet	Model Name :	Tab 6
Temperature:	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH19/CH39)	14	0 3

Test data reference attachment

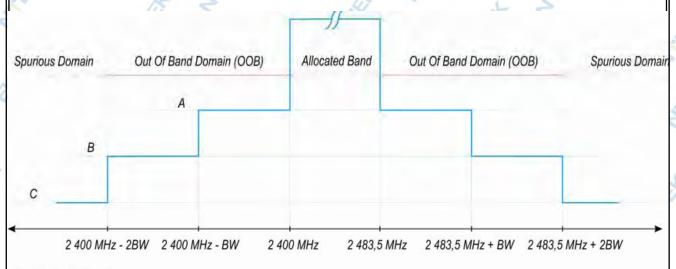
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3.4. TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

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.		



- 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)

⊠Conducted measure	ment Radiated measurement
The setting of the Spectrum Ana	ulyzer
Span	0Hz
Filter Mode	Channel Filter
Trace Mode	Max Hold
Trigger Mode	Video trigger; in case video triggering is not possible, an external trigger source may be used
Detector	RMS
Sweep Point / Sweep Mode Sweep Time [s] / (1 µs) or 5 000 whichever is greater/ Contin	
RBW / VBW	1MHz / 3MHz

Measurement

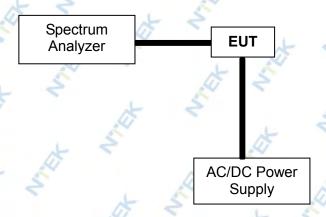




3.4.3 DEVIATION FROM TEST STANDARD

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 6
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	DC 3.8V
Test Mode :	TX-GFSK(CH00/CH39)	d 5	2 1 10 2

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)

	terer to chapter ETOLE			APR 773	A
		Operational Mode			
4			☐LBT based Detect and Avoid		
V 7	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	NA	(see note 2)	R*CCA (see note 4)
	Short Control Signalling Transmissions	Maximur	aximum duty cycle of 10% within an observation period of 50 m (see note 5)		

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™-2012 [i.3], clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-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: g 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:

 $TL = -70 \text{ dBm/MHz} + 10 \times \log_{10} (100 \text{ mW} / \text{Pout}) \text{ (Pout in mW e.i.r.p.)}$





Table 9: Unwanted Signal parameters

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

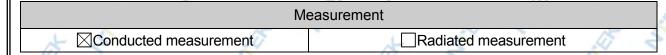
NOTE 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. See clause 5.4.6.1.

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.

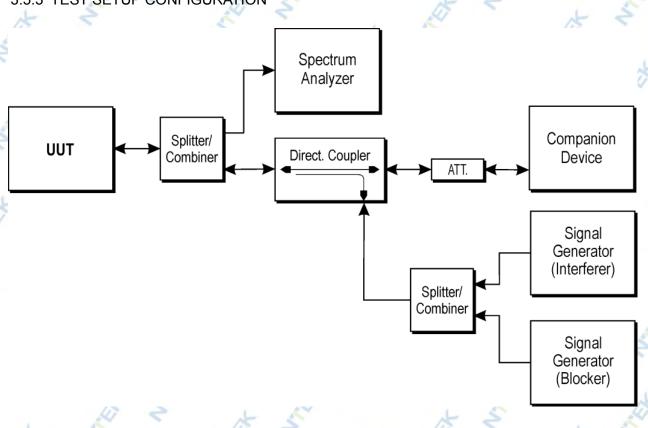
3.5.2 TEST PROCEDURE

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



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





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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)	
	4	V	4 5	

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



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3.5.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 6
Temperature :	24 °C	Relative Humidity:	54%
Pressure :	1010 hPa	Test Power :	N/A
Test Mode :	N/A	A 5	N N

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	-54dBm	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)

0	Measurement							
	⊠Conducted measurement	⊠Radiated measurement						

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

3.6.3 DEVIATION FROM TEST STANDARD

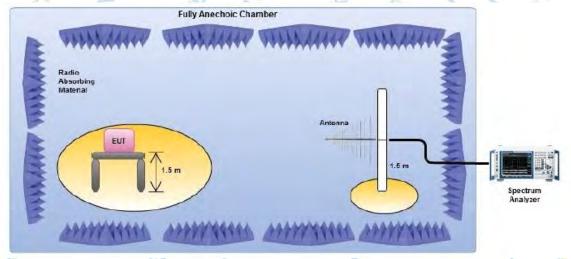
No deviation





3.6.4 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. 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 6
Temperature :	24℃	Relative Humidity:	57 %
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TXGESK(CH19)		0) 2

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	44.468	-73.72	11.08	-62.64	-36	-26.64	peak
V 🗷	104.505	-75.02	9.95	-65.07	-54	-11.07	peak
V	197.457	-72.87	11.04	-61.83	-36	-25.83	peak
V	356.709	-69.48	9.57	-59.91	-36	-23.91	peak
V	641.522	-73.61	10.86	-62.75	-36	-26.75	peak
V	714.561	-71.52	10.86	-60.66	-36	-24.66	peak
H	45.519	-76.68	10.51	-66.17	-36	-30.17	peak
£	116.809	-68.25	9.86	-58.39	-54	-4.39	peak
Н	175.531	-77.29	9.67	-67.62	-36	-31.62	peak
Н	423.465	-77.24	11.36	-65.88	-36	-29.88	peak
Н	598.72	-76.69	10.32	-66.37	-36	-30.37	peak
ØĦ.	812.634	-72.73	10.32	-62.41	-36	-26.41	peak

^{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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ABOVE 1 GHz WORST- CASE DATA (1GHz ~ 12.75GHz)

		4/1	
EUT:	4G Tablet	Model Name :	Tab 6
Temperature:	26℃	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX-GESK (CH00/CH19/CH39)	at see	5

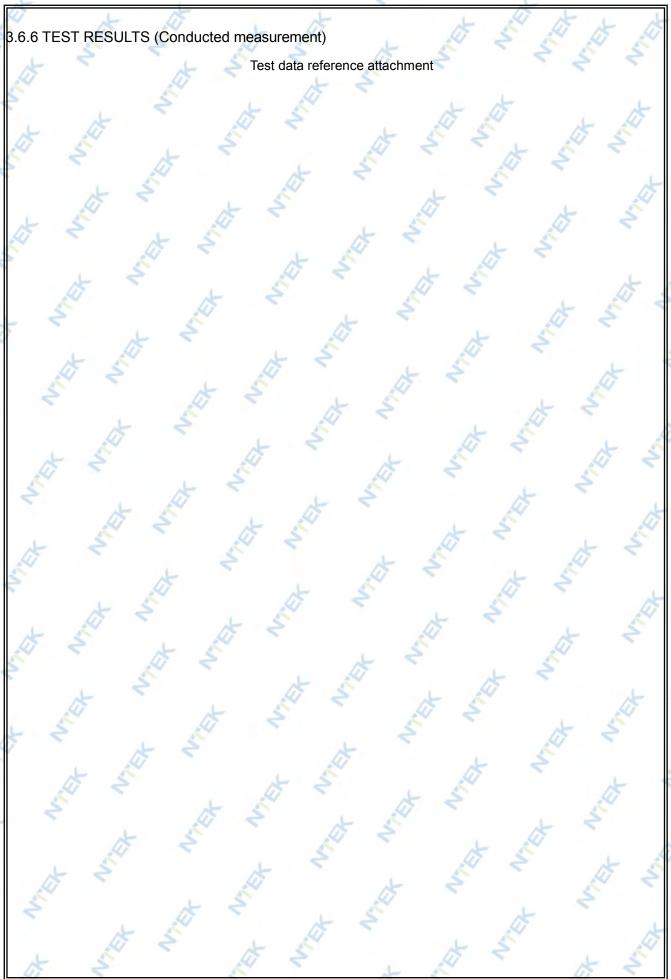
	/1			.0	- /	7.5			
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark		
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)			
	operation frequency:2402								
V	4804.88	-35.30	-1.47	-36.77	-30	-6.77	peak		
V	7206.25	-51.30	10.87	-40.43	-30	-10.43	peak		
H.O	4804.88	-38.26	-1.47	-39.73	-30	-9.73	peak		
H	7206.25	-48.29	10.87	-37.42	-30	-7.42	peak		
	-	ope	eration free	quency:2440		14			
V	4880.46	-42.56	-1.91	-44.47	-30	-14.47	peak		
V	7320.52	-44.08	5.95	-38.13	-30	-8.13	peak		
A	4880.46	-38.48	-1.91	-40.39	-30	-10.39	peak		
₹H	7320.52	-53.51	5.95	-47.56	-30	-17.56	peak		
	operation frequency:2480								
V	4960.29	-38.31	-1.28	-39.59	-30	-9.59	peak		
V	7440.86	-53.49	8.79	-44.70	-30	-14.70	peak		
∠)H	4960.29	-42.75	-1.28	-44.03	-30	-14.03	peak		
Н	7440.86	-56.53	8.79	-47.74	-30	-17.74	peak		

Remark:

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











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	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
⊠Conducted measurement	⊠Radiated measurement

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)
VBW	300K(<1GHz) / 3M(>1GHz)

3.7.3 DEVIATION FROM TEST STANDARD

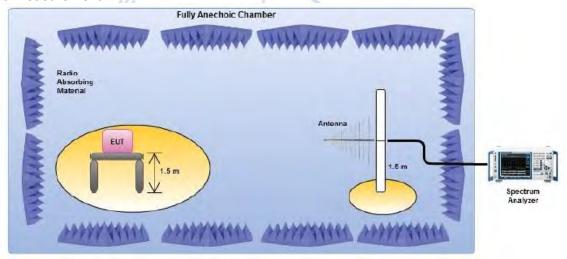
No deviation



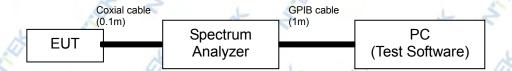


3.7.4 TEST SETUP

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)

	6//	1			
EUT:	4G Tablet	Model Name :	Tab 6		
Temperature	: 26℃	Relative Humidity:	60 %	4.	9
Pressure:	1012 hPa	Test Voltage :	DC 3.8V	45	1
Test Mode :	RX Mode-GFSK(CH19)	74	1	1	

			6.6.7				
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	41.84	-78.77	12.98	-65.79	-57	-8.79	peak
V	103.40	-80.94	11.67	-69.27	-57	-12.27	peak
V	190.51	-78.64	18.94	-59.70	-57	-2.70	peak
V	255.11	-82.15	11.65	-70.50	-57	-13.50	peak
V	478.74	-84.30	11.45 🙏	-72.85	-57	-15.85	peak
V	749.75	-79.36	11.45	-67.91	-57	-10.91	peak
H	33.60	-84.44	18.6	-65.84		-8.84	peak
H	106.61	-84.37	18.11	-66.26	-57	-9.26	peak
7	214.54	-77.68	10.3	-67.38	-57	-10.38	peak
Н	405.45	-80.18	15	-65.18	-57	-8.18	peak
Н	687.87	-82.40	14.63	-67.77	-57	-10.77	peak
H	748.63	-84.03	14.63	-69.40	-57	-12.40	peak
400		A Committee of the Comm		1.7			4.0

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.



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RX ABOVE 1 GHz WORST- CASE DATA(1GHz ~ 12.75GHz)

EUT:	4G Tablet	Model Name :	Tab 6		4
Temperature :	24 ℃	Relative Humidity	54%		
Pressure:	1010 hPa	Test Power :	DC 3.8V	L	4
Test Mode :	RX Mode-GFSK(CH19)	* 5	5	AT.	1

Date	Frequency	Meter	Factor	Emission	Limits	Margin	
Polar (H/V)		Reading		Level		g	Remark
(* /	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	1450.78	-81.08	9.94	-71.14	-47	-24.14	peak
V	2089.33	-82.76	9.82	-72.94	-47	-25.94	peak
V	3835.10	-77.25	10.02	-67.23	-47	-20.23	peak
V.	4202.01	-79.00	16.13	-62.87	-47	-15.87	peak
V	4396.71	-82.66	16.13	-66.53	-47	-19.53	peak
V	4714.85	-83.98	16.13 🔏	-67.85	-47	-20.85	peak
Η,	2489.47	-82.71	10.11	-72.60	-47	-25.60	peak
H	2765.76	-84.63	10.68	-73.95	47	-26.95	peak
A	3255.96	-81.19	10.21	-70.98	-47	-23.98	peak
H	3633.24	-78.27	11.23	-67.04	-47	-20.04	peak
Н	4420.44	78.75	8.60	-70.15	-47	-23.15	peak
Н	5737.41	-78.61	14.56	-64.05	-47	-17.05	peak

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

3.7.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

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



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.

Table 14: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm)	Blocking signal Frequency	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(see notes 1 and 4)	(MHz)	5	4
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less	2 380 2 504	-34	CW
(see note 2)	2	at sold	
(-139 dBm + 10 × log₁₀(OCBW)) or -74 dBm whichever is less	2 300 2 330	A 250 2	A 3
(see note 3)	2 360 2524 2584	d d	7
A S	2674	4 5	Q

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 P_{min} + 26 dB where P_{min} 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 P_{min} + 20 dB where P_{min} 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.





☐ 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)	4	1			
(-139 dBm + 10 × log ₁₀ (OCBW) + 10 dB)	2 380	-34	CW		
or (-74 dBm + 10 dB) whichever is less	2 504	- 5 5 .	# 5		
(see note 2)	2 300	45	5		
	2 584	\$	4		

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 P_{min} + 26 dB where P_{min} 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 ₁₀ (OCBW) + 20 dB)	2 380	-34	CW
or (-74 dBm + 20 dB) whichever is less	2 504	4 5	P
(see note 2)	2 300	P	4 >
L	2 584	F 2	

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 P_{min} + 30 dB where P_{min} 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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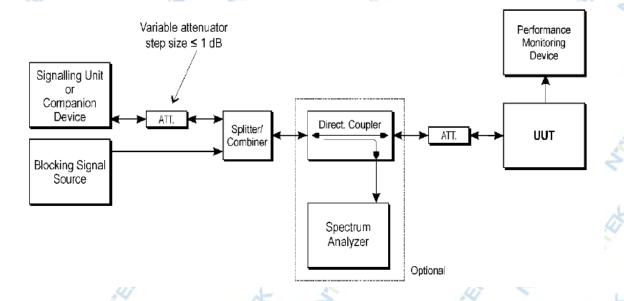
3.8.3 TEST PROCEDURE

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

3.8.4 DEVIATION FROM TEST STANDARD

No deviation

3.8.5 TEST SETUP





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3.8.6 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 6	7
Temperature :	24 ℃	Relative Humidity	54%	
Pressure :	1010 hPa	Test Power :	DC 3.8V	4
Test Mode :	GFSK-RX Mode (CH00/CH39)	. 4	A 1- 1	1

1M CH00:

receiver category 3

Wanted signal mean power from companion	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER	PER Limit
device (dBm) Note(1)		- 5	S. C.	/0
4	2 380	4	0.26%	1400/
5	2 504	. 5	0.74%	≤10 %
-68.02	2 300	-34	0.45%	-400/
+ 14	2 584 🙏	5	0.71%	≤10%

CH39:

receiver category 3

	100	civer category o	177	
Wanted signal mean power from companion device (dBm) Note(1)	Blocking signal Frequency (MHz)	Blocking signal power (dBm)	PER %	PER Limit %
4 4	2 380 2 504	4	0.43% 0.02%	≤10%
-68.01	2 300	-34	0.97%	A-1100/
<u> </u>	2 584	₩ ₹	0.19%	≤10%

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



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	A		A.		150		
	EUT:	4G Tablet	Model Name :	Tab 6	1	D	X
	Temperature :	24 ℃	Relative Humidity	54%	7	2	4
1	Pressure :	1010 hPa	Test Power :	DC 3.8V			
5	Test Mode :	GFSK-RX Mode (CH00/CH39)	4	×			4

2M CH00:

receiver category 3

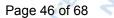
	1600	erver category 3		
Wanted signal mean	Blocking signal	Blocking signal power	PER	PER Limit
power from companion	Frequency (MHz)	(dBm)	%	%
device (dBm) Note(1)	2	D	4 5	
	2 380	7 4	0.76%	<100/
45	2 504	A	0.35%	≤10%
-64.99	2 300	-34	0.21%	£ 500
*	2 584	AT .	0.20%	≤10%

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
The state of	2 380 2 504	x 250	0.21% 0.06%	≤10%
-64.98	2 300 2 584	-34	0.83% 0.29%	≤10%

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



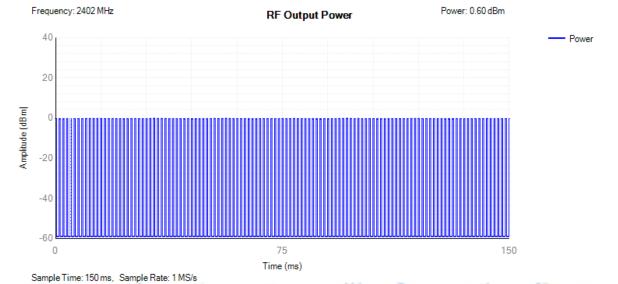


4. TEST RESULTS

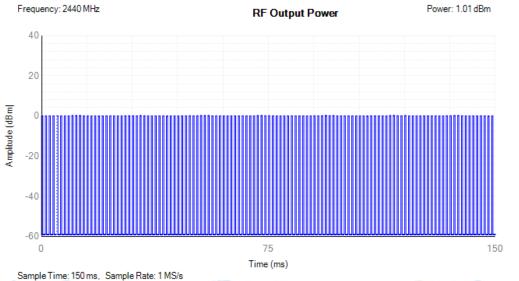
4.1 RF OUTPUT POWER

Condition	Mode	Frequency	Max Burst RMS	Burst	Max EIRP	Limit	Verdict
	3-	(MHz)	Power (dBm)	Number	(dBm)	(dBm)	4
NVNT	BLE	2402	-0.32	121 🏒	0.6	20	Pass
NVNT	BLE	2440	0.09	120	1.01	20	Pass
NVNT	BLE	2480	0.95	120	1.87	20	Pass
NVLT	BLE	2402	0.03	240	0.95	20	Pass
NVLT	BLE	2440	0.72	240	1.64	20	Pass
NVLT	BLE	2480	1.36	241	2.28	20	Pass
NVHT 🧸	BLE	2402	0.38	240	1.3	20	Pass
NVHT	BLE	2440	1.35	240	2.27	20	Pass
NVHT	BLE	2480	1.77	241	2.69	2 0	Pass

Power NVNT BLE 2402MHz

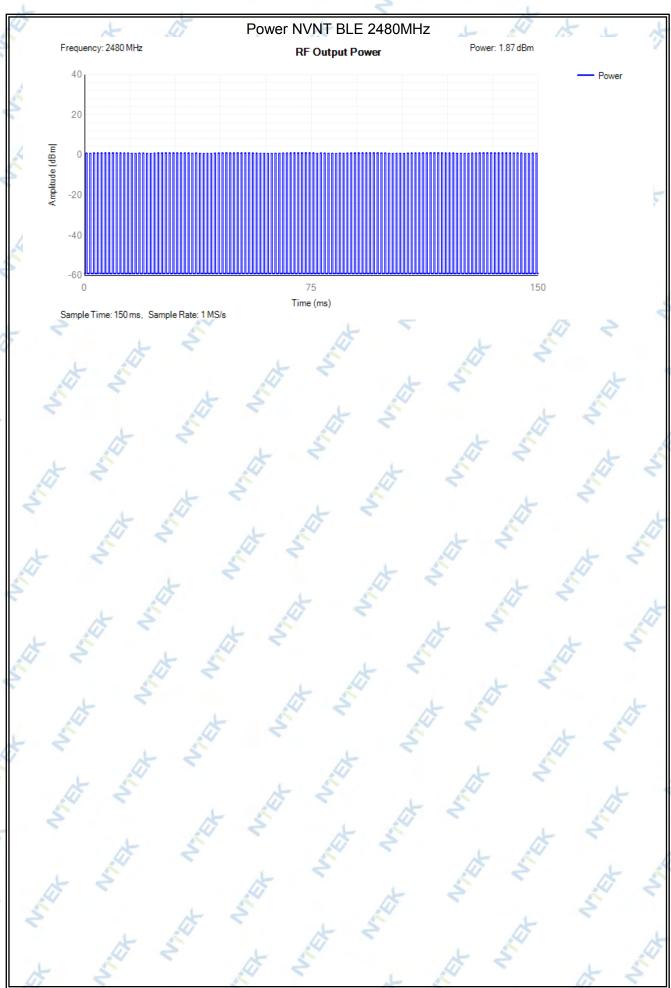


Power NVNT BLE 2440MHz





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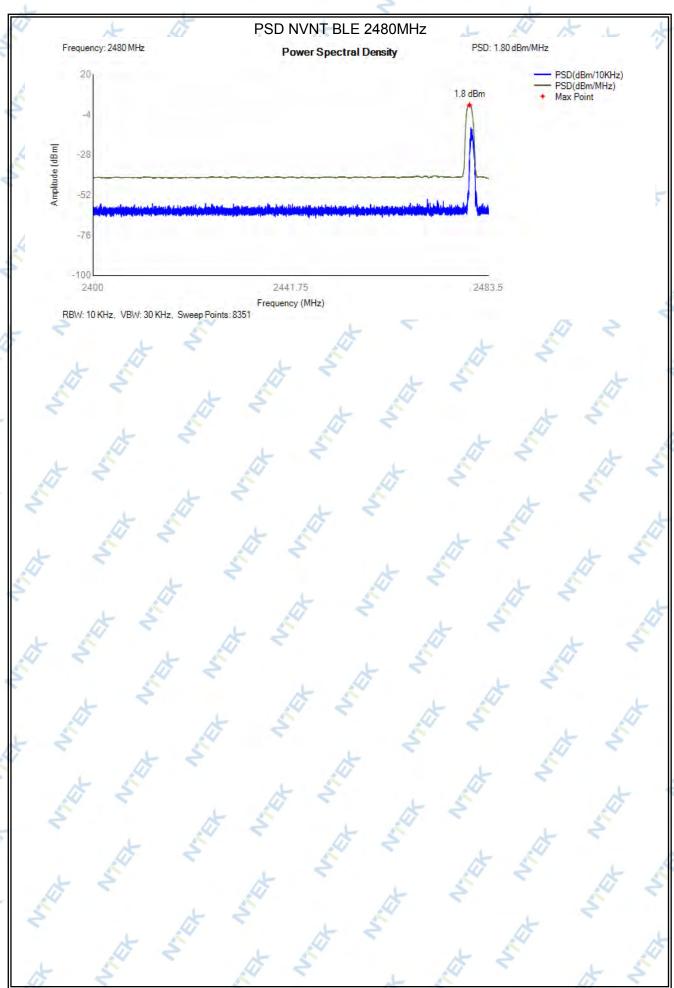




4.2 POWER SPECTRAL DENSITY Condition Mode Frequency (MHz) Max PSD (dBm/MHz) Limit (dBm/MHz) Verdict **NVNT BLE** 2402 0.53 10 **Pass NVNT** BLE 2440 0.94 10 Pass NVNT 2480 **BLE** 1.8 10 **Pass** PSD NVNT BLE 2402MHz PSD: 0.53 dBm/MHz Frequency: 2402 MHz **Power Spectral Density** PSD(dBm/10KHz) PSD(dBm/MHz) 0.53 dBm Max Point Amplitude (dBml -28 -52 -76 -100 2441.75 2483.5 2400 Frequency (MHz) RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351 PSD NVNT BLE 2440MHz Frequency: 2440 MHz PSD: 0.94 dBm/MHz **Power Spectral Density** PSD(dBm/10KHz) PSD(dBm/MHz) 0.94 dBm Max Point Amplitude (dBm) -52 -76 -100 2483.5 2400 2441.75 Frequency (MHz) RBW: 10 KHz, VBW: 30 KHz, Sweep Points: 8351

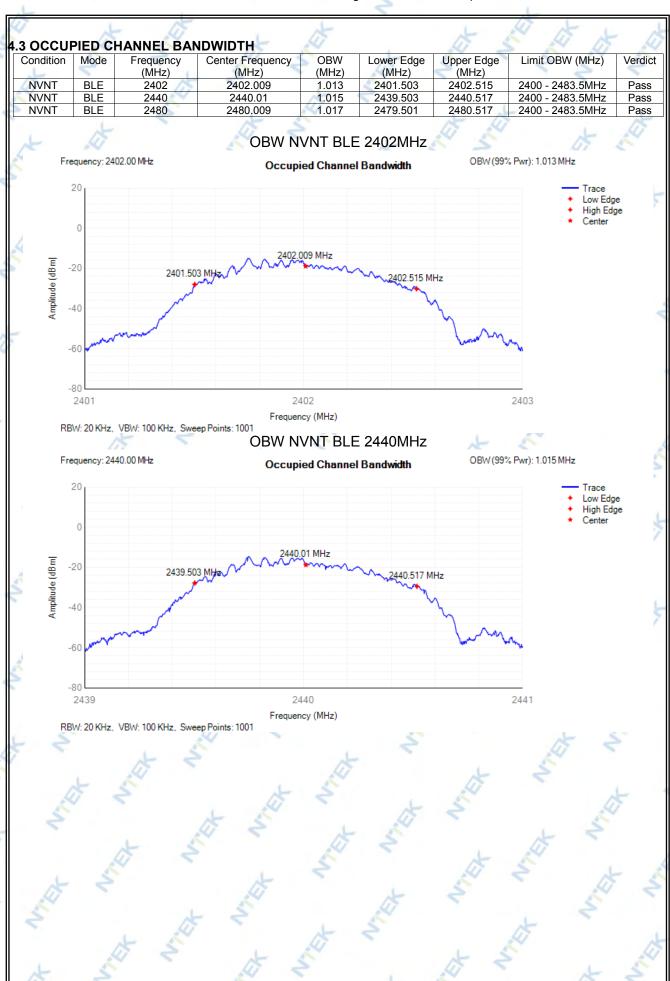






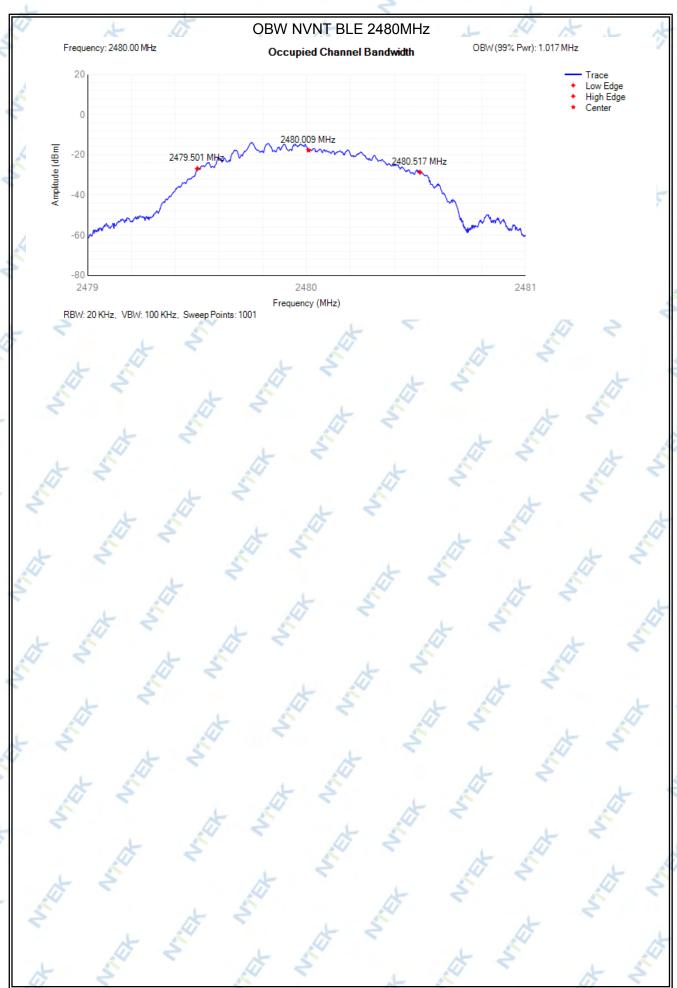


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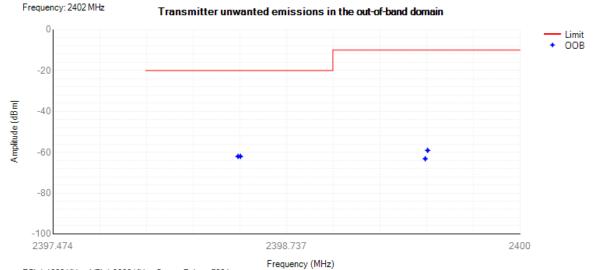






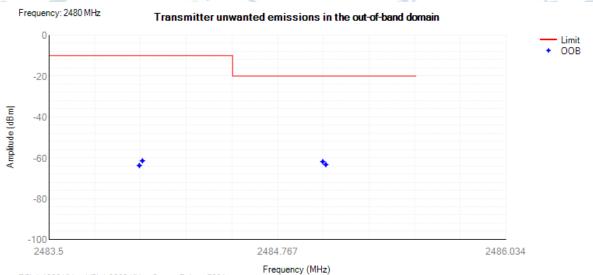
~	1	47	1	4	14	L N
4.4 TRANSM	ITTER U	NWANTED EMISS	IONS IN THE OUT-OF	-BAND DOMAIN	5 14 0	5 N
Condition	Mode	Frequency	OOB Frequency	Level	Limit	Verdict
15		(MHz)	(MHz)	(dBm/MHz)	(dBm/MHz)	
NVNT	BLE	2402	2399.5	-59.08	-10	Pass
NVNT	BLE	2402	2399.487	-63.18	-10	Pass
NVNT	BLE	2402	2398.487	-62.01	-20	Pass
NVNT	BLE	2402	2398.474	-62.03	-20	Pass
NVNT	BLE	2480	2484	-63.8	-10	Pass
NVNT	BLE	2480	2484.017	-61.49	-10	Pass
NVNT	BLE	2480	2485.017	-61.91	-20	Pass
NVNT 🦼	BLE	2480	2485.034	-63.35	-20	Pass
		UT	*	A	139	-

Tx. Emissions OOB NVNT BLE 2402MHz



RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

Tx. Emissions OOB NVNT BLE 2480MHz



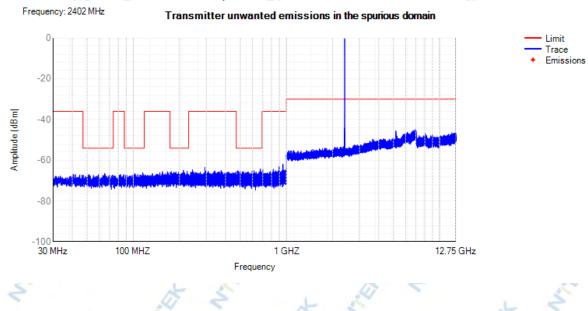
RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001





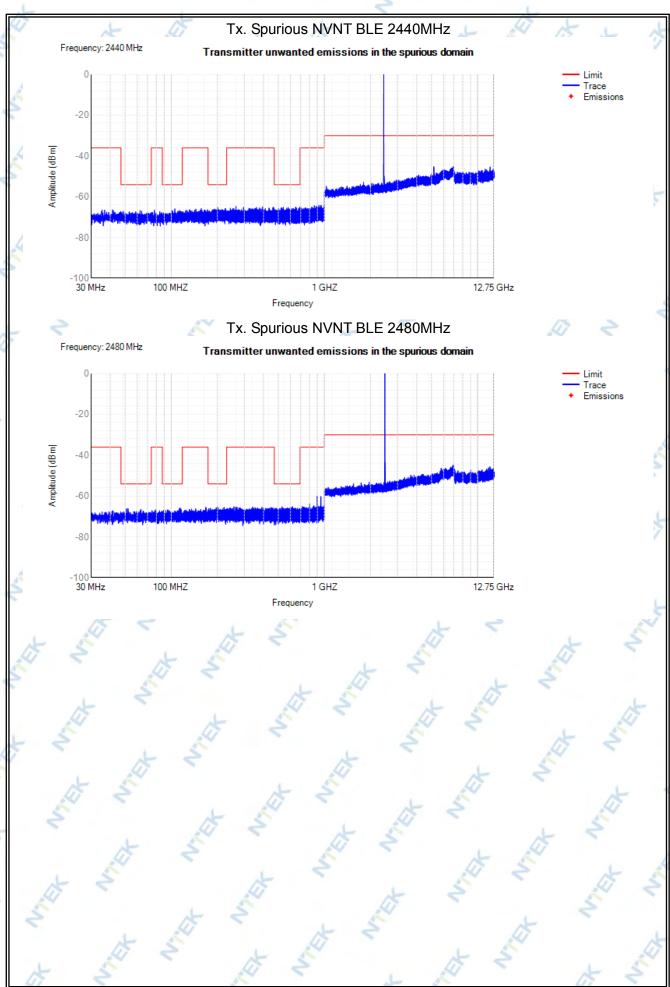
.5 TRANS Condition	Mode	Frequency	Range	Spur Freq	Spur Level	Spur Level	Limit	Verdict
Condition	Mode	(MHz)	range	(MHz)	Peak(dBm)	RMS(dBm)	(dBm)	VCIUICE
NVNT	BLE	2402	30 MHz -47 MHz	40.5	-66.82	NA NA	-36	Pass
NVNT	BLE	2402	47 MHz -74 MHz	64.95	-66.4	NA NA	-54	Pass
NVNT	BLE	2402	74 MHz -87.5 MHz	82.5	-66.99	NA NA	-36	Pass
NVNT	BLE	2402	87.5 MHz -118 MHz	115.35	-66.07	NA	-54	Pass
NVNT	BLE	2402	118 MHz -174 MHz	155.1	-65.54	NA	-36	Pass
NVNT	BLE	2402	174 MHz -230 MHz	212.85	-64.88	NA NA	-54	Pass
NVNT	BLE	2402	230 MHz -470 MHz	293.55	-63.46	NA	-36	Pass
NVNT	BLE	2402	470 MHz -694 MHz	675.35	-64.25	NA	-54	Pass
NVNT	BLE	2402	694 MHz -1000 MHz	948.4	-61.88	NA	-36	Pass
NVNT	BLE	2402	1000 MHz -2398 MHz	2397	-46.35	NA NA	-30	Pass
NVNT	BLE	2402	2485.5 MHz -12750 MHz	6950.5	-44.77	NA	-30	Pass
NVNT	BLE	2440	30 MHz -47 MHz	41.4	-66.37	NA	-36	Pass
NVNT	BLE	2440	47 MHz -74 MHz	62.6	-66.73	NA 🏑	-54	Pass
NVNT	BLE	2440	74 MHz -87.5 MHz	77.55	-66.58	NA 🥙	-36	Pass
NVNT	BLE	2440	87.5 MHz -118 MHz	105.5	-65.9	NA	-54	Pass
NVNT	BLE	2440	118 MHz -174 MHz	157.1	-65.8	NA NA	-36	Pass
NVNT	BLE	2440	174 MHz -230 MHz	201.3	-65.3	NA NA	-54	Pass
NVNT	BLE	2440	230 MHz -470 MHz	264.45	-64.7	NA	-36	Pass
NVNT	BLE	2440	470 MHz -694 MHz	691	-65.02	NA	-54	Pass
NVNT	BLE	2440	694 MHz -1000 MHz	951.55	-64.16	NA //	-36	Pass
NVNT	BLE	2440	1000 MHz -2398 MHz	1801	-52.84	NA	-30	Pass
NVNT	BLE	2440	2485.5 MHz -12750 MHz	6942	-45.14	NA	-30	Pass
NVNT	BLE	2480	30 MHz -47 MHz	41.7	-67.13	NA	-36	Pass
NVNT /	BLE	2480	47 MHz -74 MHz	52.2	-66.12	NA	-54	Pass
NVNT	BLE	2480	74 MHz -87.5 MHz	78.6	-66.76	NA	-36	Pass
NVNT	BLE	2480	87.5 MHz -118 MHz	114.2	-65.78	NA	-54	Pass
NVNT	BLE	2480	118 MHz -174 MHz	168.2	-65.42	NA 🔔	-36	Pass
NVNT	BLE	2480	174 MHz -230 MHz	199.7	-65.44	NA /	-54	Pass
NVNT	BLE	2480	230 MHz -470 MHz	256.3	-65.18	NA	-36	Pass
NVNT	BLE	2480	470 MHz -694 MHz	619.2	-65.18	NA	-54	Pass
NVNT	BLE	2480	694 MHz -1000 MHz	897.65	-59.95	NA	-36	Pass
NVNT	BLE	2480	1000 MHz -2398 MHz	1959	-53.16	NA	-30	Pass
NVNT	BLE	2480	2485.5 MHz -12750 MHz	6917	-44.69	NA	-30	Pass

Tx. Spurious NVNT BLE 2402MHz









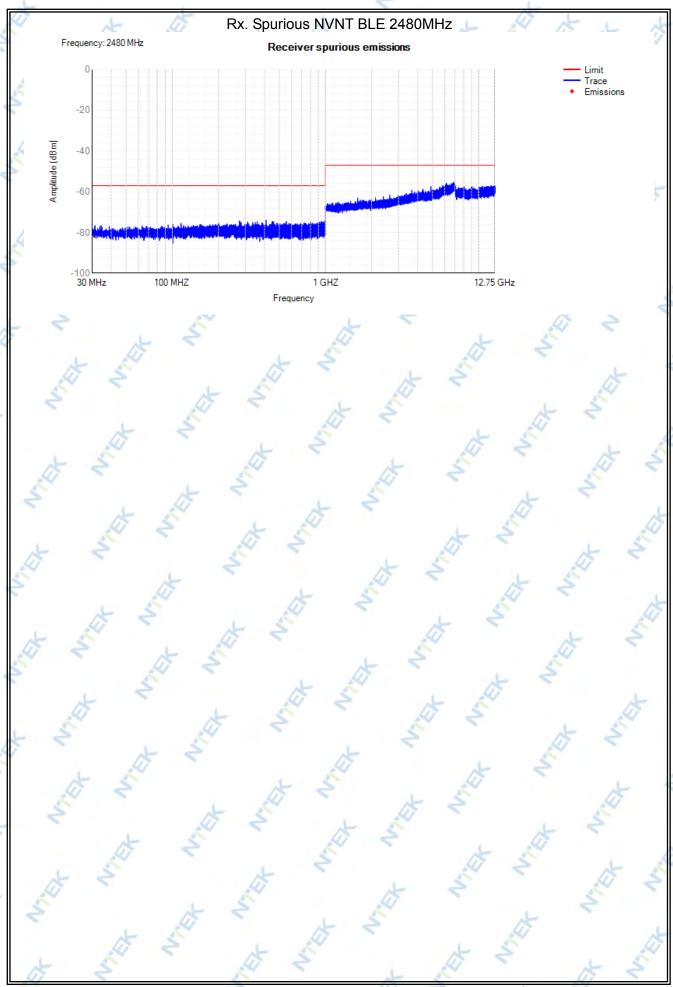




RECE	IVER SI	PURIOUS E	MISSIONS	14	. 47	5 6	4 47	
Condition	Mode	Frequency	Range	Spur Freq	Spur Level	Spur Level	Limit	Verdi
NIV/NIT	DIE	(MHz)	20 MU = 4000 MU	(MHz)	Peak(dBm)	RMS(dBm)	(dBm)	Doo
NVNT NVNT	BLE	2402	30 MHz -1000 MH		-73.74	NA NA	-57	Pas
NVNT	BLE BLE	2402 2440	1000 MHz -12750 M 30 MHz -1000 MH		-54.67 -74.26	NA NA	-47 -57	Pass
NVNT	BLE	2440	1000 MHz -12750 M		-54.76	NA NA		Pass
NVNT	BLE	2480	30 MHz -1000 MH		-73.87	NA NA	-47 -57	Pass
NVNT	BLE	2480	1000 MHz -12750 M		-54.93	NA NA	-47	Pas
INVINI	FLL	2400	1000 WI 12 - 127 30 W	1112 0301	-54.55	Ø =	7/	1 43.
				us NVNT BLE		5		
Fr	equency: 24	.02 MHz	Rece	iver spurious emis	sions			
	0						Limit Trace	
	-20					8 8 8 8 8	Emissio	ns
	-20							
E	-40							
Amplitude (dBm								
Ampli	-60			or law libraries	AND DESCRIPTION			
						4-1		
	-80	-						
						4		
	-100 30 MHz	100 MH	łZ	1 GHZ		12.75 GHz		
			Frequ	uency				
M	-		Rx. Spurio	us NVNT BLE	2440MHz		1	
Fr	equency: 24	40 MHz		iver spurious emis				
			Nece	c. spunous entis				
	0						Limit Trace	
							◆ Emissio	ns
	-20							
_								
E E	-40							
Amplitude (dBm)						-		
plitic	60					110		
Αm	-60					The state of the s		
	-80		بالالهم المن وابدرا الباطراسة					
	-100 Hz	100 MH		1 GHZ		12.75 GHz		
	SU MINZ	TOO ME	12 Frequ			12.70 GHZ		
			Frequ	иенсу				
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	1	V	-	5	4	5		
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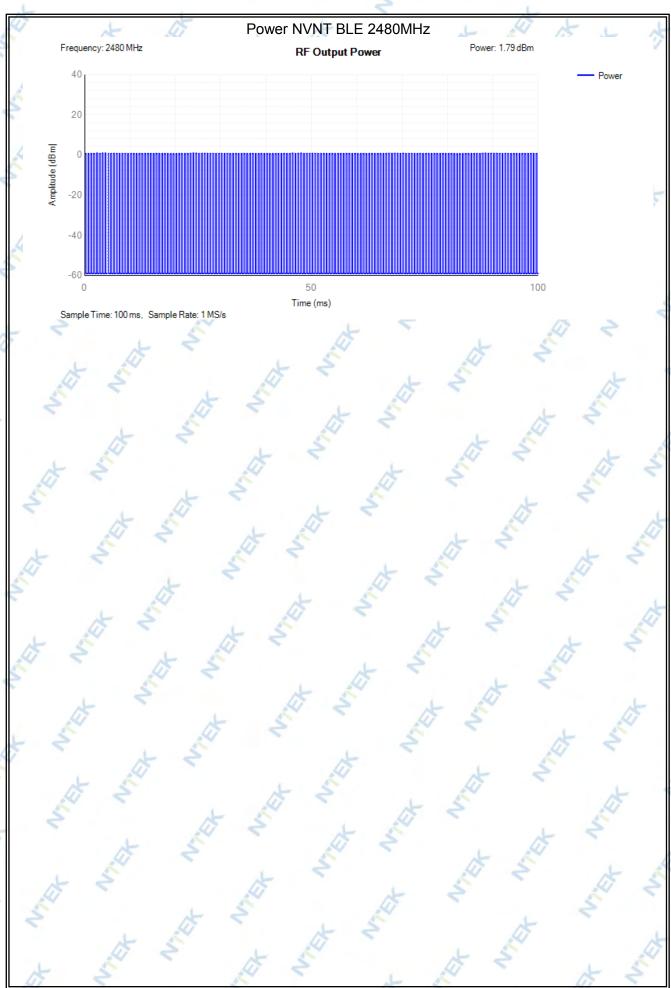


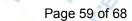




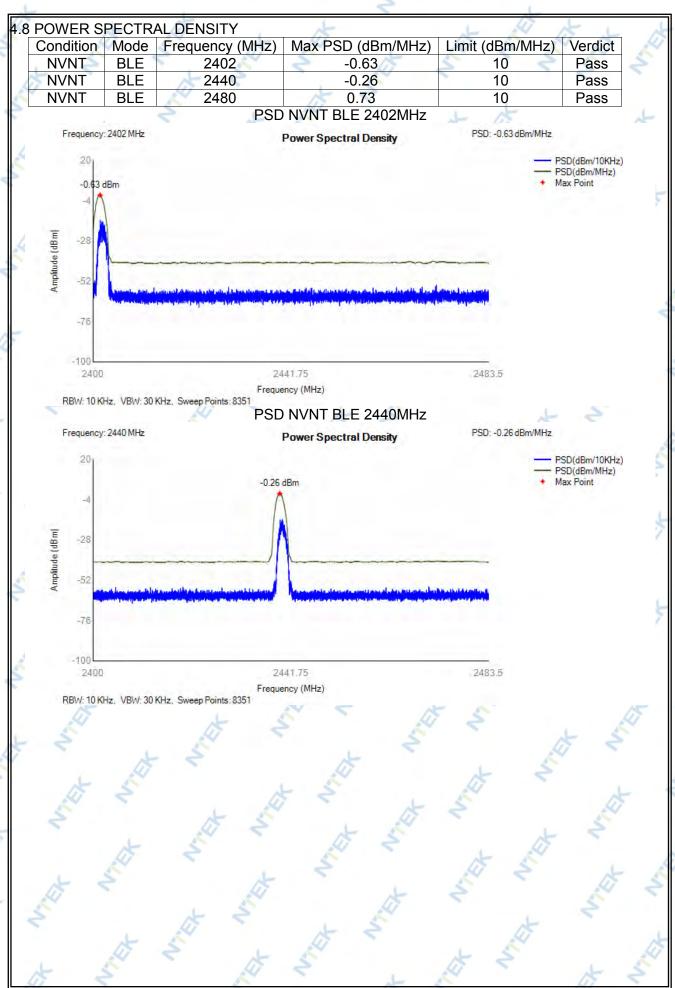


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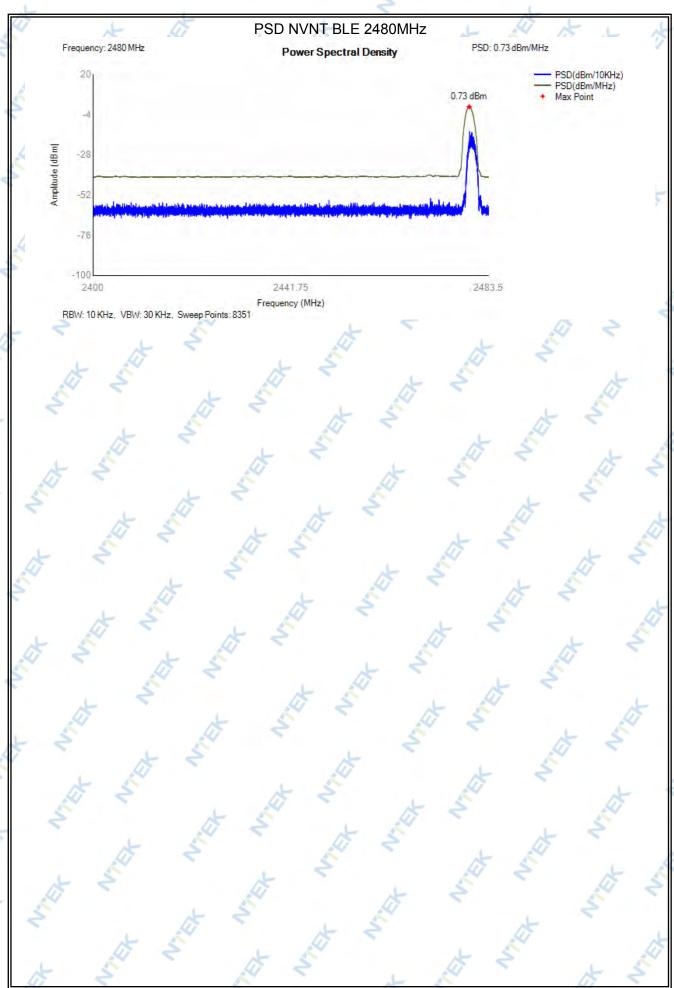






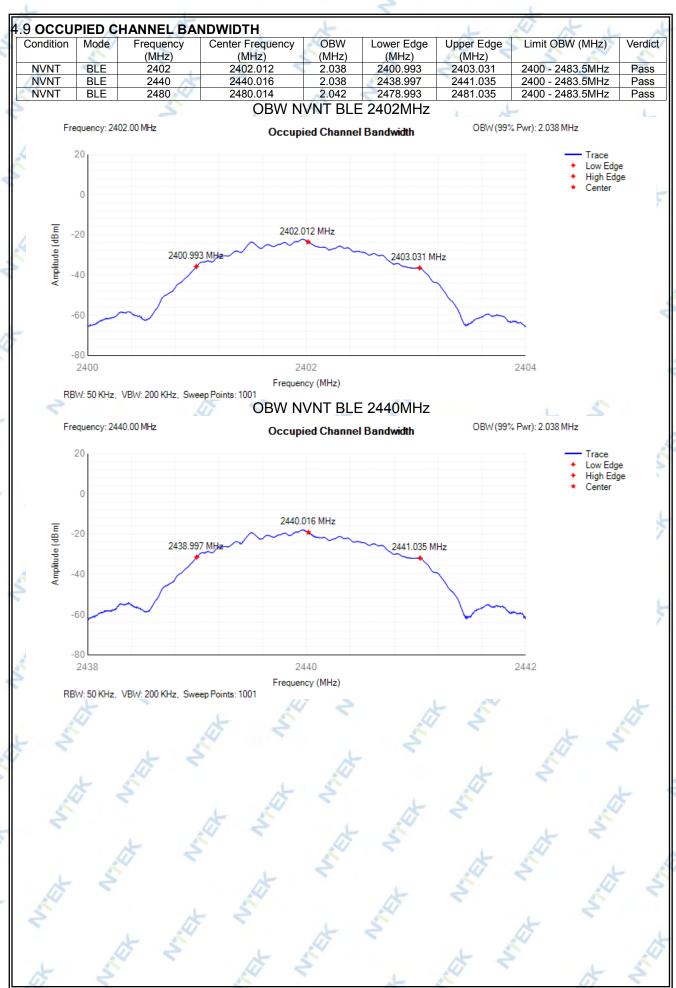


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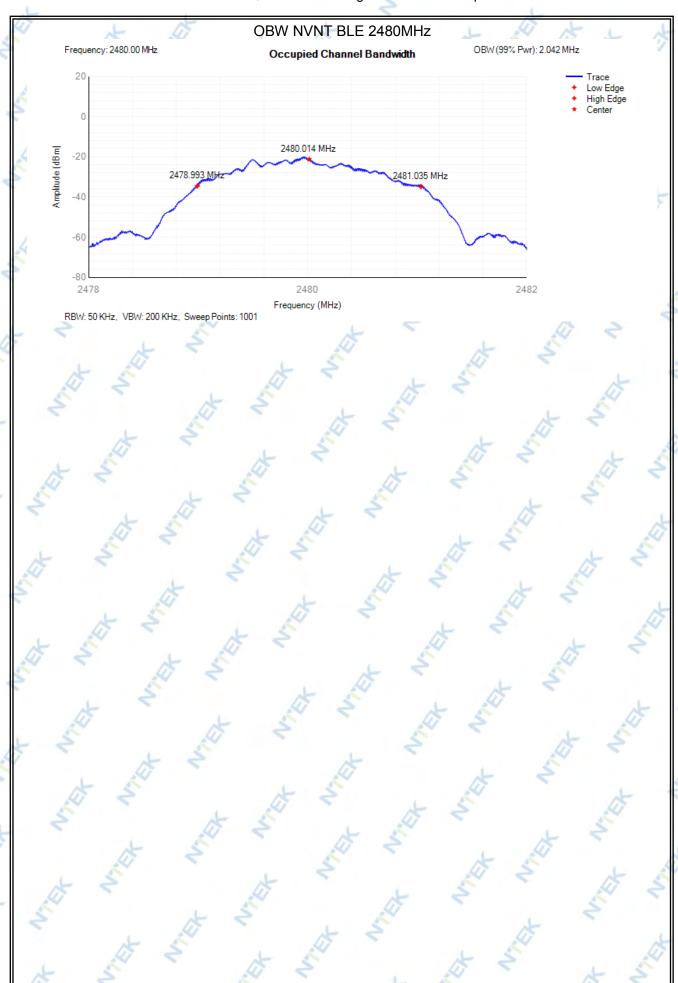


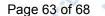
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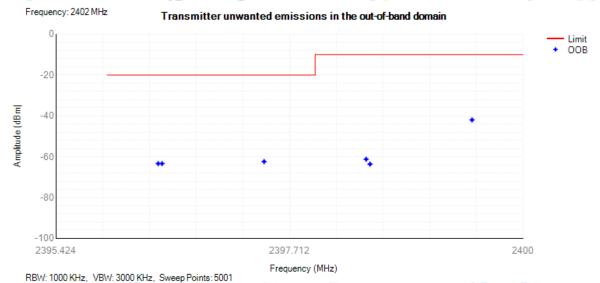




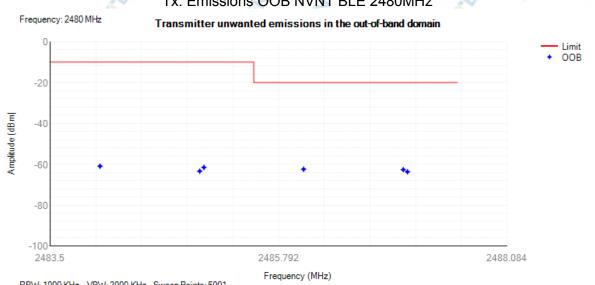


4.10 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN OOB Frequency Condition Mode Frequency Level Limit Verdict (MHz) (dBm/MHz) (dBm/MHz) (MHz) NVNT **BLE** 2402 2399.5 -41.97 -10 **Pass BLE** 2402 -10 **NVNT** 2398.5 -63.6 Pass NVNT BLE 2402 2398.462 -61.22-10 **Pass** NVNT BLE 2402 2397.462 -62.37-20 **Pass NVNT BLE** 2402 -63.35-20 2396.462 Pass **NVNT BLE** 2402 2396.424 -63.34 -20 Pass **NVNT** BLE 2480 2484 -60.94-10 **Pass NVNT** 2480 -10 BLE 2485 -63.38**Pass** -10 NVNT **BLE** 2480 2485.042 -61.53 **Pass** NVNT 2480 -20 **Pass** BLE 2486.042 -62.42**NVNT BLE** 2480 2487.042 -62.63 -20 **Pass** 2487.084 -20 **NVNT** BLE 2480 -63.7**Pass**

Tx. Emissions OOB NVNT BLE 2402MHz



Tx. Emissions OOB NVNT BLE 2480MHz



RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001

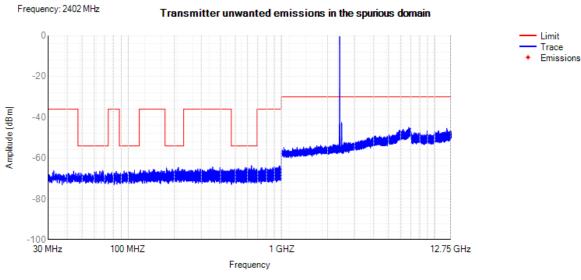


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4.11 TRAN	ISMIT	TER UNW	ANTED EMISSIONS	IN THE S	PURIOUS DO	MAIN	+ +	. 4
Condition	Mode	Frequency	Range	Spur Freq	Spur Level	Spur Level	Limit	Verdict
	2	(MHz)	A C	(MHz)	Peak(dBm)	RMS(dBm)	(dBm)	
NVNT	BLE	2402	30 MHz -47 MHz	32.65	-66.21	NA	-36	Pass
NVNT	BLE	2402	47 MHz -74 MHz	68.2	-66.08	NA	-54	Pass
NVNT	BLE	2402	74 MHz -87.5 MHz	83.55	-66.5	NA	-36	Pass
NVNT	BLE	2402	87.5 MHz -118 MHz	109.8	-65.96	NA	-54	Pass
NVNT	BLE	2402	118 MHz -174 MHz	145.4	-65.48	NA	-36	Pass
NVNT	BLE	2402	174 MHz -230 MHz	212.8	-64.54	NA	-54	Pass
NVNT	BLE	2402	230 MHz -470 MHz	355.9	-64.37	NA NA	-36	Pass
NVNT	BLE	2402	470 MHz -694 MHz	638.5	-63.65	NA	-54	Pass
NVNT	BLE	2402	694 MHz -1000 MHz	971.25	-63.73	NA	-36	Pass
NVNT	BLE	2402	1000 MHz -2396 MHz	2395.5	-51.24	NA	-30	Pass
NVNT	BLE	2402	2487.5 MHz -12750 MHz	6781.5	-44.97	NA	-30	Pass
NVNT	BLE	2440	30 MHz -47 MHz	32.3	-66.54	NA	-36	Pass
NVNT	BLE	2440	47 MHz -74 MHz	56	-65.8	NA	-54	Pass
NVNT	BLE	2440	74 MHz -87.5 MHz	84.8	-66.25	NA 🕢	-36	Pass
NVNT	BLE	2440	87.5 MHz -118 MHz	107.05	-65.3	NA 🦱	-54	Pass
NVNT	BLE	2440	118 MHz -174 MHz	132.45	-64.84	NA	-36	Pass
NVNT	BLE	2440	174 MHz -230 MHz	225.35	-64.97	NA	-54	Pass
NVNT	BLE	2440	230 MHz -470 MHz	411.7	-65.05	NA	-36	Pass
NVNT	BLE	2440	470 MHz -694 MHz	514.25	-64.7	NA	-54	Pass
NVNT	BLE	2440	694 MHz -1000 MHz	963.05	-63.89	NA	-36	Pass
NVNT	BLE	2440	1000 MHz -2396 MHz	1885.5	-51.7	NA /	-30	Pass
NVNT	BLE	2440	2487.5 MHz -12750 MHz	2582	-37.74	NA S	-30	Pass
NVNT	BLE	2480	30 MHz -47 MHz	37.8	-66.26	NA	-36	Pass
NVNT	BLE	2480	47 MHz -74 MHz	55.65	-66.28	NA NA	-54	Pass
NVNT	BLE	2480	74 MHz -87.5 MHz	83.95	-65.79	NA	-36	Pass
NVNT	BLE	2480	87.5 MHz -118 MHz	112.3	-66.37	NA	-54	Pass
NVNT	BLE	2480	118 MHz -174 MHz	169.55	-65.73	NA	-36	Pass
NVNT	BLE	2480	174 MHz -230 MHz	187	-64.99	NA	-54	Pass
NVNT	BLE	2480	230 MHz -470 MHz	361.9	-64.6	NA A	-36	Pass
NVNT	BLE	2480	470 MHz -694 MHz	598.95	-64.67	NA NA	-54	Pass
NVNT	BLE	2480	694 MHz -1000 MHz	864.95	-63.64	NA	-36	Pass
NVNT	BLE	2480	1000 MHz -2396 MHz	1920.5	-37.41	NA	-30	Pass
NVNT	BLE	2480	2487.5 MHz -12750 MHz	6866.5	-45.06	NA	-30	Pass
507			Ty Courious I				.0	

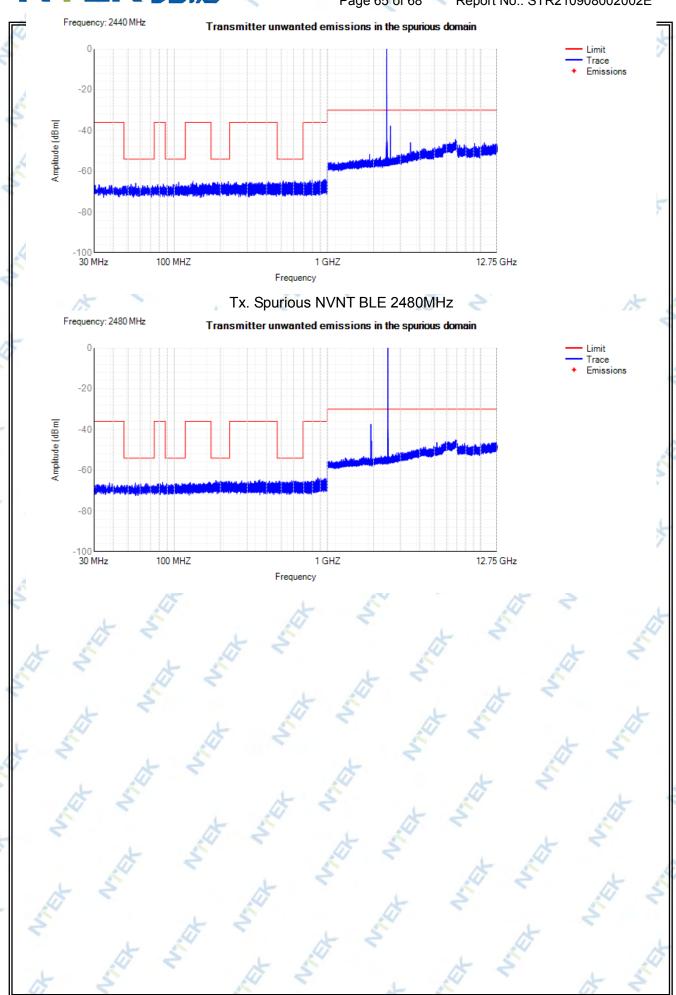
Tx. Spurious NVNT BLE 2402MHz



Tx. Spurious NVNT BLE 2440MHz







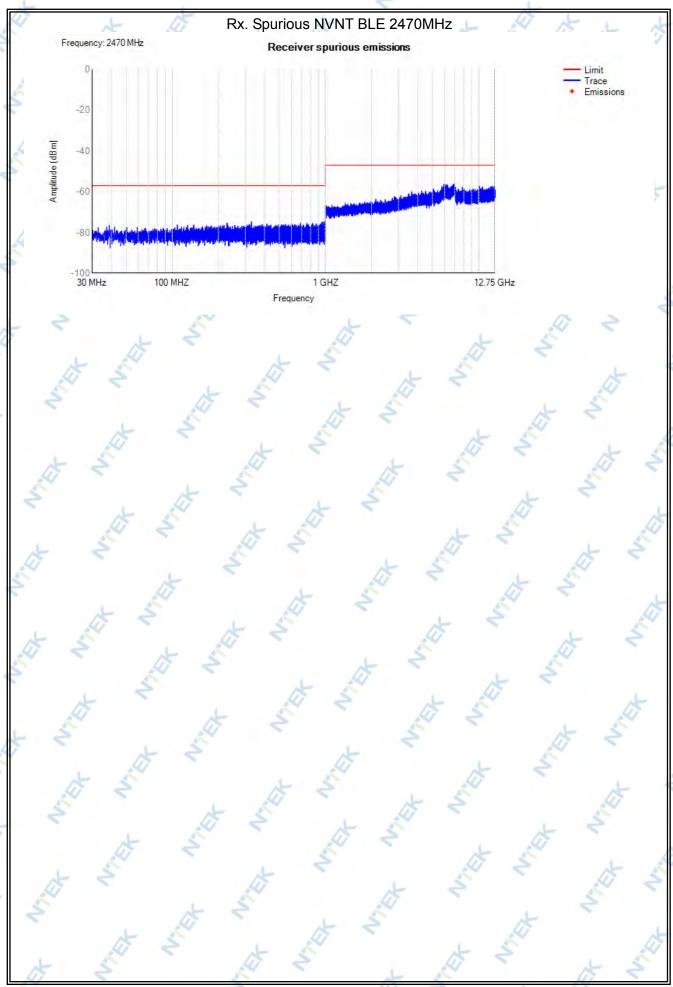


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12Recei	ver sou	rious emissio	ons		4	Q .		
Condition	Mode	Frequency	Range	Spur Freq	Spur Level	Spur Level	Limit	Ver
Januari	Mode	(MHz)	range	(MHz)	Peak(dBm)	RMS(dBm)	(dBm)	ct
NVNT	BLE	2402	30 MHz -1000 MHz	834.7	-74.94	NA	-57	Pas
NVNT	BLE	2402	1000 MHz -12750 MHz	6837	-54.84	NA	-47	Pas
NVNT	BLE	2440	30 MHz -1000 MHz	893.55	-74.55	NA	-57	Pas
NVNT	BLE	2440	1000 MHz -12750 MHz	6844	-55.51	NA	-47	Pas
NVNT	BLE	2470	30 MHz -1000 MHz	988.4	-74.54	NA	-57	Pas
NVNT	BLE	2470	1000 MHz -12750 MHz	5923	-56.25	NA	-47	Pas
		4	Rx. Spurious NVNT	F BI E 240	12MHz	M S		
Fre	quency: 2402	2 MHz	Receiver spurious					A
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	30 MHz	100 MHZ	1 GHZ Frequency		12.7	5 GHz		
N			Rx. Spurious NVNT	Γ BI F 244	.0MHz			
Fre	quency: 2440) MHz	Receiver spuriou					
	0					Y S	Limit	
							Emissions	
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18 m	-40							
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	-80 100 100 30 MHz	100 MHZ	1 GHZ		12.7	5 GHz		
	A Coli	100 MHZ	1 GHZ Frequency		12.7	5 GHz		
A	A Coli	100 MHZ			12.7	5 GHz	d	
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A.	A Coli	100 MHZ		- 4	12.7	5 GHz	No.	
ALL STATES	A Coli	100 MHZ		A. A.	12.7	5 GHz	The state of the s	
The Array	A Coli	100 MHZ		- 4	12.7	5 GHz	The state of the s	
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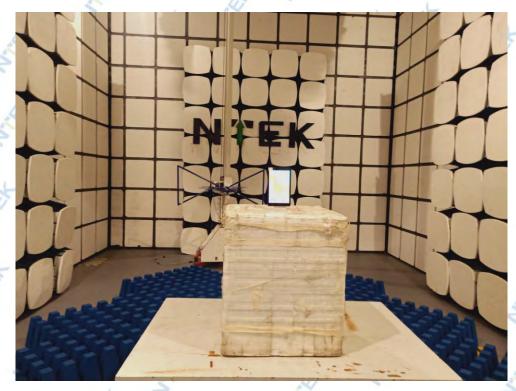


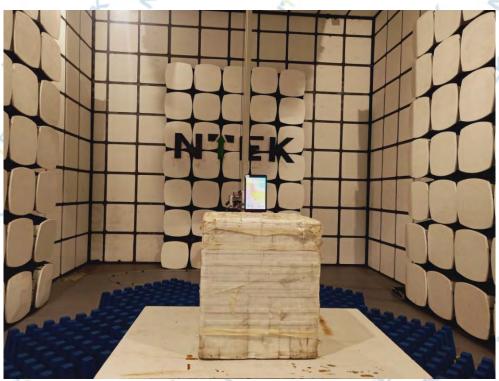


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5. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT