

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

Product: 4G Tablet

Trade Mark: Blackview

Model Name: Tab 12

Family Model: N/A

Report No.: STR211227002001E

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

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	Shenzhen DOKE Electronic Co.,Ltd.				
Address:	801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.				
Product description					
Product name					
Trademark:	Blackview				
Model Name::	Tab 12				
Family Model:	N/A				
Standards:	ETSI EN 300 328 V2.2.2 (2019-07)				
This device described above ha	is been tested by NTEK, and the test results show that the				
equipment under test (EUT) is i	n compliance with the of article 3.2 of the Directive 2014/53/EU				
requirements. And it is applicab	le only to the tested sample identified in the report.				
This report shall not be reprodu	ced except in full, without the written approval of NTEK, this				
document may be altered or rev	rised by NTEK, personnel only, and shall be noted in the revision of				
the document.					
Date of Test					
	Dec 27, 2021 ~ Feb 16, 2022				
Date of Issue	Feb 16, 2022				
Test Result	Pass A				
大 ·					
Testing Engine	eer : May . Hu				
	(Mary Hu)				
AT L					
Authorized Signature	gnatory: Alex				
* *	4 9				
At Service	(Alex Li)				
-W -					



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Revision History

		T 47 2	1 7 6
Report No.	Version	Description	Issued Date
STR211227002001E	Rev.01	Initial issue of report	Feb 16, 2022
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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

	Equipment	4G Tablet	
Trade Mark		Blackview	2 7 1 10 2
	Model Name.	Tab 12	W 3
	Family Model	N/A	* * *
	Model Difference	N/A	<i>y</i>
4		The EUT is 4G Tablet	
		Operation Frequency:	2402~2480 MHz
2		Modulatin Type:	GFSK,∏/4-DQPSK,8-DPSK
		Modulation Technology:	FHSS 🗼
		Adaptive/non-adaptive	Adaptive equipment
/		Receiver categories	2
4	Product Description	Number Of Channel	79CH
		Antenna Designation:	PIFA Antenna
		Antenna Gain(Peak)	1.41 dBi
0.00		exhibited in User's Manu	, features, or specification al, the EUT is considered as an More details of EUT technical or to the User's Manual.
	Channel List	Refer to below Table	A 2
	Adapter	Adapter 1: Model: HJ-0502000C2-EU Input: 100-240V~50/60Hz 0.3A Output: 5V2.0A 10.0W Adapter 2: Model: HJ-0502000K9-EU Input: 100-240V~50/60Hz 0.3A Output: 5V2.0A 10.0W	
	Battery	DC 3.8V, 6580mAh	* * *
	Rating	DC 3.8V from battery or	DC 5V from Adapter.
	I/O Ports	Refer to users manual	
	Hardware Version	T30-9863A-V1.0-220120	-G
	Software Version	Tab 12_EEA_T30_V1.0	- 2
	//2		

Note:

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





2.

79 chann	nels are provided to (GFSK, []/4-DQPSK, 8-	-DPSK)	5	
7	Channel	-	A Participation of the Partici	Frequency (MHz		1
	00	Ü	,	2402	4	
4	C 01	- (2403	67	
4			.1_	14.		
	2		4		4	1
	47				247	1
4				,		

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: 79 The minimum number of Hopping Frequencies: 79 • The (average) Dwell Time: 323.456ms Maximum 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



	Page 9 of 89	Report No.: STR21122700)2001E
e) In case of non-adaptive Equipment:	A.	大型方	* * *
The maximum RF Output Power (e.i.r.p.):	I The state of the	4 7 7	The State of the S
The maximum (corresponding) Duty Cycle	141	7	7 -
Equipment with dynamic behaviour, that be	ehaviour is described h	ere. (e.g. the different combi	inations
of duty cycle and corresponding power leve	els to be declared):	at the	L 0
f) The worst case operational mode for ea	ch of the following te	sts:	
RF Output Power	L 3		
GFSK 🔔 🍣		- 4	*
Power Spectral Density		4	
N/A	大		
Duty cycle, Tx-Sequence, Tx-gap	At the		
N/A	4 <	A 5	X
Accumulated Transmit time, Frequency 0	Occupation & Hopping	Sequence (only for FHSS ed	quipment)
GFSK		L 24	
Hopping Frequency Separation (only for	FHSS equipment)		
∏/4-DQPSK			at the same of the
Medium Utilization	4 5	4	
N/A	A Part of the second	at a series	
Adaptivity	7	4 3	* 3
N/A	4	4	
Receiver Blocking	4 4	At .	
8-DPSK A A	A Comment of the Comm		, Q'
Nominal Channel Bandwidth	4	41	* 5
8-DPSK		- L	VI
Transmitter unwanted emissions in the C	OOB domain		4
8-DPSK		4 4	147
Transmitter unwanted emissions in the s	purious domain	A Comment of	. 4
GFSK	d's		
Receiver spurious emissions	4 5	L W	4
∏/4-DQPSK		4	A CONTRACTOR OF THE PARTY OF TH
g) The different transmit operating mode	s (tick all that apply):	, Li	4
Operating mode 1: Single Antenna	Equipment	4 5	
Equipment with only one antenna	+ 3	All the second	大
Equipment with two diversity antenr	nas but only one antenr	a active at any moment in ti	ime
☐ Smart Antenna Systems with two or	more antennas, but op	perating in a (legacy) mode v	where only
one antenna is used (e.g. IEEE 802	.11™ [i.3] legacy mode	in smart antenna systems)	4
Operating mode 2: Smart Antenna S			W 5
Single spatial stream / Standard thre	47		7
☐ High Throughput (> 1 spatial stream	4 2		X
High Throughput (> 1 spatial stream			A. C. C.



Report No.: STR211227002001E 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: dB 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: 1.199MHz 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) The normal and the extreme operating conditions that apply to the equipment: Normal operating conditions (if applicable): Operating temperature: 15 °C ~35 °C 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: stand-alone equipment combined (or host) equipment test jig



d.	4	4	太	A D	*
The intended combine	nation(s) of the ra	adio equipment powe	r settings and	one or more an	tenna
assemblies and thei	L S				
Antenna Type: PIFA		AT T	4	4	
_	大	provided in case of cor	nducted measur	rements)	
Antenna Gain: 1		AT.	7 5	L 20	
	*	g gain (excluding basic	antenna gain):	/ dB	
_	RF connector provi	47	الم		
	ry RF connector pr		A CONTRACTOR OF THE PROPERTY O	大	3
		ent with antenna connec	ctor)		
		ponding antenna(s)	A A		
		rresponding antenna(s	JU 2		d
	erent Power Levels			A.	
Power Level 1:		4	+		
Power Level 2:		4 3	14		4
Power Level 3:		4	* ~		4
NOTE 1: Add r	more lines in case	the equipment has mor	e power levels.	*	
NOTE 2: These	e power levels are	conducted power level	s (at antenna c	onnector).	
For each of the Powe	r Levels, provide t	he intended antenna as	ssemblies, their	corresponding (gains
L	477	he intended antenna as king into account the b			115
G) and the resulting e. Power Level 1	.i.r.p. levels also ta	king into account the b	eamforming ga		1
G) and the resulting e. Power Level 1 Number of ante	i.r.p. levels also ta :dBm enna assemblies p	iking into account the b provided for this power I	eamforming ga	in (Y) if applicab	ole
G) and the resulting e. Power Level 1 Number of ante Assembly #	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi)	rovided for this power le.i.r.p. (dB	eamforming ga		ole
G) and the resulting e. Power Level 1 Number of ante Assembly #	i.r.p. levels also ta :dBm enna assemblies p	iking into account the b provided for this power I	eamforming ga	in (Y) if applicab	ole
G) and the resulting e. Power Level 1 Number of ante Assembly # 1	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi)	rovided for this power le.i.r.p. (dB	eamforming ga	in (Y) if applicab	ole
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi) 1.41	e.i.r.p. (dB	eamforming ga	in (Y) if applicab	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi) 1.41	rovided for this power le.i.r.p. (dB	eamforming ga	in (Y) if applicab	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add note the power Level 2	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi) 1.41 more rows in case	e.i.r.p. (dB 4.85	eamforming ga	in (Y) if applicab	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante	i.r.p. levels also ta dBm enna assemblies p Gain (dBi) 1.41 more rows in case dBm enna assemblies p	exirce and the bound of this power in the bound of this power in the bound of this power in the bound of the	eamforming ga evel: m) Part lies are support	in (Y) if applicable number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add note the power Level 2	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi) 1.41 more rows in case	e.i.r.p. (dB 4.85	eamforming ga evel: m) Part lies are support	in (Y) if applicab	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante	i.r.p. levels also ta dBm enna assemblies p Gain (dBi) 1.41 more rows in case dBm enna assemblies p	exirce and the bound of this power in the bound of this power in the bound of this power in the bound of the	eamforming ga evel: m) Part lies are support	in (Y) if applicable number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly #	i.r.p. levels also ta dBm enna assemblies p Gain (dBi) 1.41 more rows in case dBm enna assemblies p	exirce and the bound of this power in the bound of this power in the bound of this power in the bound of the	eamforming ga evel: m) Part lies are support	in (Y) if applicable number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3	i.r.p. levels also ta : dBm enna assemblies p Gain (dBi) 1.41 more rows in case enna assemblies p Gain (dBi)	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power leads to the power leads	eamforming ga evel: m) Part lies are support evel:	number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r	i.r.p. levels also ta definition described assemblies processed assembli	exirce and the bound of this power in the bound of this power in the bound of this power in the bound of the	eamforming ga evel: m) Part lies are support evel:	number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r Power Level 3	i.r.p. levels also ta :	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power le.i.r.p. (dB 4.r.p. (dB 4.r.p. (dB	eamforming ga evel: m) Part lies are support evel: m) Part	number or mode	el name
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r Power Level 3 NUMBER OF ANTE	i.r.p. levels also ta :	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power le.i.r.p. (dB e.i.r.p. (dB	eamforming ga evel: m) Part lies are support evel: lies are support	ed for this powe	el name r level.
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r Power Level 3	i.r.p. levels also ta :	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power le.i.r.p. (dB 4.r.p. (dB 4.r.p. (dB	eamforming ga evel: m) Part lies are support evel: lies are support	number or mode	el name r level.
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r Power Level 3 NUMBER OF ANTE	i.r.p. levels also ta :	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power le.i.r.p. (dB e.i.r.p. (dB	eamforming ga evel: m) Part lies are support evel: lies are support	ed for this powe	el name r level.
G) and the resulting e. Power Level 1 Number of ante Assembly # 1 2 3 NOTE 3: Add r Power Level 2 Number of ante Assembly # 1 2 3 NOTE 4: Add r Power Level 3 Number of ante Assembly #	i.r.p. levels also ta :	e.i.r.p. (dB 4.85 more antenna assemble rovided for this power le.i.r.p. (dB e.i.r.p. (dB	eamforming ga evel: m) Part lies are support evel: lies are support	ed for this powe	el name r level.

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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:
stand-alone equipment
combined (or host) equipment
test jig
Supply Voltage AC mains State AC voltage V
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 1.4
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:
☐ The state of th
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 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):
8-DPSK =0.98%



1.3 TEST CONDITIONS

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

Note:

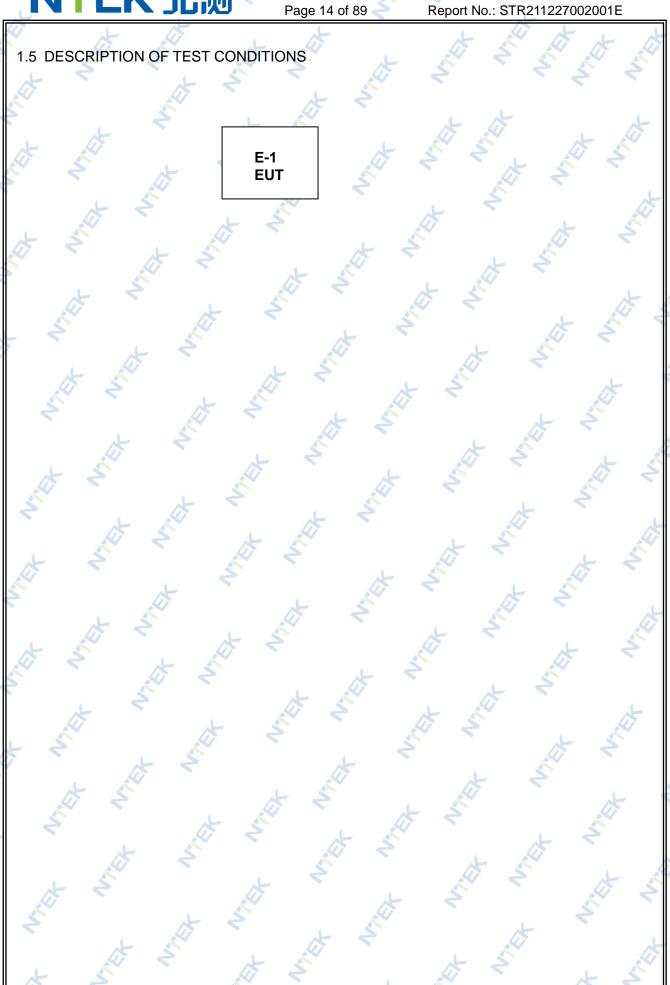
- (1) The HT 40°C and LT -10°C was declarated by manufacturer, The EUT couldn't be operate normally with higher or lower temperature.
- (2) The measurements are performed at the highest, middle, lowest available channels.

1.4 TEST CONFIGURATION OF EUT

Modulation Used For Conformance Testing					
Bluetooth mode	Data rate Modulation type				
BR	1Mbps	GFSK			
EDR	2Mbps	∏/4-DQPSK			
EDR	3Mbps	8-DPSK			

	Test Channel Frequencies Configuration					
	Test Channel	EUT Channel	Test Frequency (MHz)			
	Lowest	CH00	2402			
	Middle	CH39	2441			
4	Highest	CH78	2480			







1.6 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.

Item	Equipment	Model/Type No.	Series No.	Note
E-1	4G Tablet	Tab 12	N/A	EUT
	4	4 2	d'	
4	-	4	4 5	
	, QT	4	24	4
	* 4			2
			. 5	
	*		<u>ar</u>	*

Item	Shielded Type	Ferrite Core	Length			Note	
3		4	7	- 5		4	
	大	7	24		4	147	
	_ (4		4	1	147	7	* =
1		1 - 5		, Ci	7		3
4	.L	4	*	5		4	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.





1.7 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	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	2019.08.06	2022.08.05	3 year
Test Cable (1-18GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
Pre-Amplifier	EMC	EMC051835SE	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/ 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	2021.07.01	2022.06.30	1 year
MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2021.04.27	2022.04.26	1 year
Wideband Radio Communication Tester Specifications	R&S	CMW500	148500	2021.04.27	2022.04.26	1 year
temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A



2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

_								
	ETSI EN 300 328 V2.2.2 (2019-07)							
4	Clause	Test Item	Results					
		7						
	4.3.1.2	RF Output Power	Pass					
4	4.3.1.3	Duty cycle, Tx-Sequence, Tx-gap	Not Applicable (See Note 1/2)					
	4.3.1.4	Accumulated Transmit Time, Frequency Occupation and Hopping Sequence	Pass					
	4.3.1.5	Hopping Frequency Separation	Pass					
	4.3.1.6	Medium Utilization (MU) factor	Not Applicable (See Note 1/2)					
	4.3.1.7	Adaptivity	Not Applicable (See Note 1)					
	4.3.1.8	Occupied Channel Bandwidth	Pass					
	4.3.1.9	Transmitter unwanted emission in the OOB domain	Pass					
	4.3.1.10	Transmitter unwanted emissions in the spurious domain	Pass					
	4	RECEIVER PARAMETERS						
	4.3.1.11	Receiver Spurious Emissions	Pass					
	4.3.1.12	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 MAXIMUM 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)).

Maximum measurement uncertainty

	Maximum measurement uncertainty					
No.	ltem 🏂	Uncertainty				
1	Occupied Channel Bandwidth	± 5%				
2 RF output Power,conducted		±1.5dB				
3	Power Spectral Density, conducted	± 3dB				
4	Unwanted emissions, conducted	± 3dB				
5	All emissions,radiated	± 6dB				
6	Temperature	± 3°C				
17	Humidity	± 3%				
9	Time	± 5%				



TRANSMITTER PARAMETERS

3. RF OUTPUT POWER

3.1 LIMITS OF RF OUTPUT POWER

Refer to chapter 4.3.1.2.3 of ETSI EN 300 328 V2.2.2 (2019-07)

RF OUTPUT	POWER
Condition	Limit
	Equal to or less than the value declared by the supplier. This declared value shall be equal to or less than 20 dBm.
	equal to or less than 20 dBm.

3.2 TEST PROCEDURES

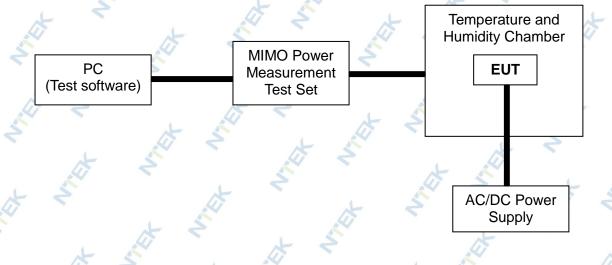
Refer to chapter 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07)

Me	easurement
	Radiated measurement

3.3 DEVIATION FROM TEST STANDARD

No deviation

3.4 TEST SETUP



N2017.06.06.0614.V.1.3



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3.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12
Temperature :	20°C	Relative Humidity:	55 %
Pressure:	1012 hPa	Test Voltage :	DC 3.8V (Normal)
Test Mode :	BT-GFSK/∏/4-DQPSK /8-DPSK	0.5	2 1 2 2

Test data reference attachment





4. ACCUMULATED TRANSMIT TIME, FREQUENCY OCCUPATION AND HOPPING SEQUENCE

A -			24		
11	LIMITS OF ACCUMULATED	TD A NICHAIT TIME	EDECLIENCY	A OCCUIDATION AND	HUDDING
/T./I	LIIVII I 3 OI ACCOMOLATED	TIXANSIVII TIIVIL,	LICULING	OCCUPATION AND	TIOFFING
	SECHENCE			4	

Refer to chapter 4.3.1.4.3 of ETSI EN 300 328 V2.2.2 (2019-07)

Accumulated Transmit Time					
Condition	Limit				
Non-adaptive frequency hopping systems	≤ 15 ms[15 ms * the minimum number of hopping frequencies (N)]				
Adaptive frequency hopping systems	≤ 400 ms in [400 ms * the minimum number of hopping frequencies (N)]				
MINIMUM	FREQUENCY OCCUPATION TIME				
Condition	Limit				
Non-adaptive frequency hopping systems	Each hopping frequency of the hopping sequence shall be occupied at least once within a period not				
	exceeding four times the product of the dwell time and the number of hopping frequencies in use.				
Н	OPPING SEQUENCE (S)				
Condition	Limit				
Non-adaptive frequency hopping systems	≥15 hopping frequencies or 15/minimum				
	Operating over a minimum of 70% of the Operating in the band 2.4 GHz to 2.4835 GHz				
hopping systems	≥15 hopping frequencies or 15/minimum				

4.2 TEST PROCEDURE

Refer to chapter 5.4.4 of ETSI EN 300 328 V2.2.2 (2019-07)

	1	Measurement		
X		4	Radiated measurement	1

4.3 DEVIATION FROM TEST STANDARD

No deviation





4.4 TEST SETUP



The measurements only were performed at normal test conditions. The equipment was configured to operate at its maximun Dwell time and maximum Duty Cycle. The measurement was performed on a minimum of 2 hopping frequencies chosen arbitrary from the actual hopping sequence. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

4.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12	4
Temperature:	26°C	Relative Humidity	60 %	D
Pressure:	1012 hPa	Test Voltage :	DC 3.8V	
Test Mode : BT-GFSK/∏/4-DQPSK /8-DPSK-Hopping Mode				

Test data reference attachment



5. OCCUPIED CHANNEL BANDWIDTH

5.1 LIMITS OF OCCUPIED CHANNEL BANDWIDTH Refer to chapter 4.3.1.8.3 of ETSI EN 300 328 V2.2.2 (2019-07)

	OCCUPIED CHANNEL BANDWIDTH				
Condition		Limit			
Al	I types of equipment	Shall fall completely within the band 2400 to 2483.5 MHz			
Additional	For non-adaptive using wide band modulations other than FHSS system and EIRP >10 dBm	Less than 20 MHz			
requirement	For non-adaptive frequency hopping system and EIRP >10 dBm	Less than 5 MHz			

5.2 TEST PROCEDURE

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

Measurement				
☐ Conducted measurement ☐ Ra			measurement	4
The setting of the Spectr	um Analyzer	L	* 3	
Center Frequency	The centre frequence	cy of the channel under tes	st	Q
Frequency Span	2 x Nominal Chann	el Bandwidth	*	- 3
Detector	RMS	4 5	1 29	
RBW	~ 1 % of the span w	rithout going below 1 %	4	
VBW	3 × RBW	*	3	.40
Trace	Max hold	247	O.	4
Sweep time	1s -	at T		



5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 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. Using software to force the EUT to hop or transmit on a single Hopping frequency. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

5.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12	Y X
Temperature:	26°C	Relative Humidity:	60 %	74
Pressure:	1012 hPa	Test Voltage :	DC 3.8V	1
Test Mode :	Test Mode : BT-GFSK/∏/4-DQPSK /8-DPSK-(CH00/CH78)			

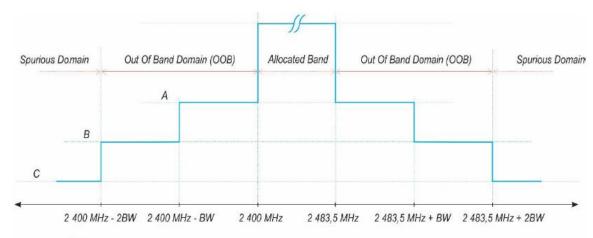
Test data reference attachment



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

6.1 LIMITS OF TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN Refer to chapter 4.3.1.9.3 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

Figure 1: Transmit mask

6.2 TEST PROCEDURE

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

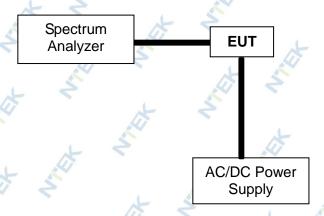
	Measurement
	ment Radiated measurement
The setting of the Spectrum Ana	lyzer & A & A
Span	OHz P
Filter Mode	Channel Filter
Trace Mode	Clear/Write
Trigger Mode	Video Trigger
Detector	RMS
Sweep Point / Sweep Mode	5000 / Continuous
RBW / VBW	1MHz / 3MHz



6.3 DEVIATION FROM TEST STANDARD

No deviation

6.4 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.

6.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12
Temperature :	26°C	Relative Humidity:	60 %
Pressure :	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	BT-GFSK/∏/4-DQPSK /8-DPSK-(CH78)	+ 5

Test data reference attachment



7. HOPPING FREQUENCY SEPARATION

7.1 LIMITS OF HOPPING FREQUENCY SEPARATION Refer to chapter 4.3.1.5.3 of ETSI EN 300 328 V2.2.2 (2019-07)

HOPPING FREQUENCY SEPARATION		
Condition	Limit	
☐ Non-adaptive frequency hopping systems	The minimum Hopping Frequency Separation shall be equal to or greater than occupide channel bandwidth of a single hop, with a minimum separation of 100 kHz.	
Adaptive frequency hopping systems	The minimum Hopping Frequency Separation shall be 100 kHz.	

7.2 TEST PROCEDURE

Refer to chapter 5.4.5.2 of ETSI EN 300 328 V2.2.2 (2019-07)

		4/12				
	Me	easurement				
☐ Conducted m	neasurement	4	Radiat	ed measure	ment	5 3
The setting of the Spectr	um Analyzer	. 5		*	. 3	H
Center Frequency	Centre of the two ac	djacent hoppin	g frequer	ncies		L
Frequency Span	Sufficient to see the frequencies	complete pov	ver envelo	ope of both	hopping	
Detector	Max Peak			4	7	9
RBW 🗡	~ 1 % of the span		4	=		<u> </u>
VBW	3 × RBW				*	4
Trace	Max hold	太	7	4	3	
Sweep Time	Auto		1 -	4		

7.3 DEVIATION FROM TEST STANDARD

No deviation



7.4 TEST SETUP



The measurements were performed at normal test conditions. The measurement was performed on 2 adjacent hopping frequencies. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator. Controlling software (Button Function) has been activated to set the EUT on specific status.

7.5 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12
Temperature:	26°C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	DC 3.8V
Test Mode :	BT-GFSK/∏/4-DQPSK /8-DPSK-(CH00/CH39/CH78)	4 4

Test data reference attachment

Note: 1.The limitation is from OCB of a single hop and this value must greater and equal to 100kHz.

2.The device will never "hop" to its neighbour channel, therefore the "effective" channel separation becomes 2x the "normal" channel separation.



8. TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

8.1 LIMITS OF TRANSMITTER TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Refer to chapter 4.3.1.10.3 of ETSI EN 300 328 V2.2.2 (2019-07)

TRANSMITTER UNWANTED EN	FRANSMITTER 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			

8.2 TEST PROCEDURE

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

Me	easurement

The setting of the Spectrum Analyzer

RBW A	100K(<1GHz) / 1M(>1GHz)	41 2	у.	ĮŪ,
VBW	300K(<1GHz) / 3M(>1GHz)	3	.07	1

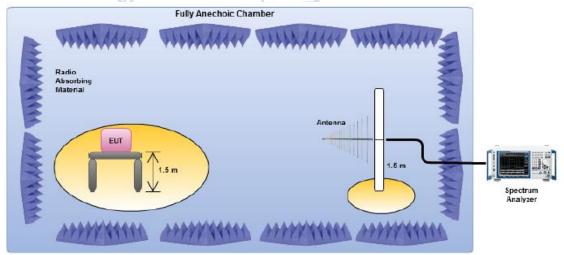
8.3 DEVIATION FROM TEST STANDARD

No deviation

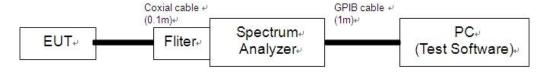


8.4 TEST SETUP

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 (Button Function) has been activated to set the EUT on specific status.





8.5 TEST RESULTS (Radiated measurement)
BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

4	EUT:	4G Tablet	Model Name :	Tab 12
	Temperature :	24 ℃	Relative Humidity	54%
	Pressure :	1010 hPa	Test Power :	DC 3.8V

Test Mode : BT-GFSK (CH00)

		7				4	
Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	38.53	-69.70	10.77	-58.93	-36	-22.93	peak
V	109.82	-73.22	11.26	-61.96	-54	-7.96	peak
V	215.83	-71.67	11.22	-60.45	-54	-6.45	peak
V	310.94	-72.51	11.19	-61.32	-36	-25.32	peak
V	590.16	-71.81	9.53	-62.28	-54	-8.28	peak
V	710.49	-68.52	11.03	-57.49	-36	-21.49	peak
H	45.40	-72.40	10.45	-61.95	-36	-25.95	peak
H	109.39	-75.42	10.2	-65.22	-54	-11.22	peak
Ŧ	183.24	<i>-</i> 75.16	10.83	-64.33	-54	-10.33	peak
Н	348.30	-73.28	11.11	-62.17	-36	-26.17	peak
Н	239.32	-72.71	12.36	-60.35	-36	-24.35	peak
Н	794.35	-67.18	11.03	-56.15	-36	-20.15	peak
Damer							

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.



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

Report No.: STR211227002001E

EUT:	4G Tablet	Model Name :	Tab 12
Temperature :	24 °C	Relative Humidity	54%
Pressure:	1010 hPa	Test Power :	DC 3.8V
Test Mode :	GFSK (CH00/CH39/CH78)	15	2 4 5

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
	4	ope	ration freq	uency:2402	*	2	
V	4804.66	-38.70	-1.47	-40.17	-30	-10.17	peak
V	7206.80	-50.10	10.87	-39.23	-30	-9.23	peak
H	4804.66	-37.60	-1.47	-39.07	-30	-9.07	peak
Ŧ	7206.80	-50.50	10.87	-39.63	-30	-9.63	peak
	4	ope	ration freq	uency:2441	4		
V	4882.70	-38.60	-1.91	-40.51	-30	-10.51	peak
V	7324.16	-50.10	5.95	-44.15	-30	-14.15	peak
H	4882.70	-37.60	-1.91	-39.51	-30	-9.51	peak
Н	7324.16	-51.90	5.95	-45.95	-30	-15.95	peak
	+	ope	ration freq	uency:2480		W	
V	4961.47	-37.80	-1.28	-39.08	-30	-9.08	peak
V	7440.92	-50.80	8.79	-42.01	-30	-12.01	peak
Ϋ́H	4961.47	-40.30	-1.28	-41.58	-30	-11.58	peak
Н	7440.92	-51.30	8.79	-42.51	-30	-12.51	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

B.6 TEST RESULTS (Conducted measurement)

Test data reference attachment



9. RECEIVER SPURIOUS EMISSIONS

9.1 LIMITS OF RECEIVER SPURIOUS RADIATION Refer to chapter 4.3.1.11.3 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						

9.2 TEST PROCEDURE

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

Me	easurement	

The setting of the Spectrum Analyzer

RBW	100K(<1GHz) / 1M(>1GHz)	0,	5	(_
VBW	300K(<1GHz) / 3M(>1GHz)			4

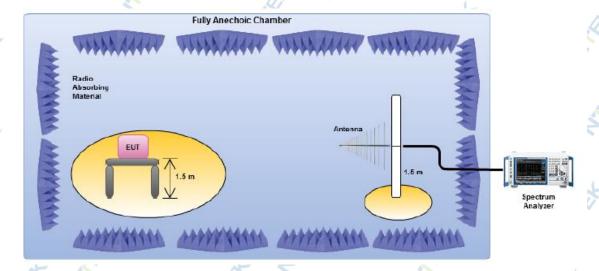
9.3 DEVIATION FROM TEST STANDARD

No deviation

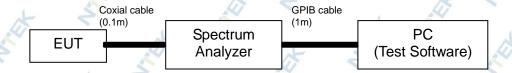


9.4 TEST SETUP

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 (Button Function) has been activated to set the EUT on specific status.





9.5 TEST RESULTS (Radiated measurement)

RX BELOW 1 GHz WORST- CASE DATA (30 MHz ~ 1GHz)

EUT:	4G Tablet	Model Name :	Tab 12
Temperature:	24 ℃	Relative Humidity	54%
Pressure:	1010 hPa	Test Power :	DC 3.8V
Test Mode :	GFSK(CH00)		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	
V	44.76	-77.04	12.98	-64.06	-57	-7.06	peak
V	108.77	-81.77	11.67	-70.10	-57	-13.10	peak
V	191.77	-78.01	18.94	-59.07	-57	-2.07	peak
V	288.16	-79.33	11.65	-67.68	-57	-10.68	peak
V	624.56	-81.86	10.25	-71.61	-57	-14.61	peak
V	717.66	-79.95	_11.45	-68.50	-57	-11.50	peak
H	40.18	-82.45	18.6	-63.85	-57	-6.85	peak
4	111.24	-83.44	18.11	-65.33	-57	-8.33	peak
Н	192.78	-77.43	10.3	-67.13	-57	-10.13	peak
Н	394.14	-80.05	15	-65.05	-57	-8.05	peak
Н	590.79	-79.75 🔔	13.63	-66.12	-57	-9.12	peak
H	738.35	-81.56	14.63	-66.93	-57	-9.93	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.



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

Report No.: STR211227002001E

				A			A	
EUT:	4G Tablet		7	Model Name	; ;	Tab 12	2	7
Temperature:	24 ℃		X	Relative Hun	nidity	54%		
Pressure :	1010 hPa	4	14	Test Power	:	DC 3.8V		7
Test Mode :	GFSK (CH00)	40	7	4	4	N	4	5

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)		
V	1938.88	-77.15	9.94	-67.21	-47	-20.21	peak	
V	2725.83	-83.44	9.82	-73.62	-47 🚣	-26.62	peak	
V	3297.77	-80.91	10.02	-70.89	-47	-23.89	peak	
V	4649.18	-84.29	16.13	-68.16	-47	-21.16	peak	
V	4090.26	-78.20	16.16	-62.04	-47	-15.04	peak	
V	4750.41	-77.69	16.19	-61.50	-47	-14.50	peak	
Н	2152.41	-80.93	10.11	-70.82	-47	-23.82	peak	
H	2907.36	-80.17	10.68	-69.49	-47	-22.49	peak	
H	3405.00	-84.57	10.21	-74.36	-47	-27.36	peak	
\mathbf{H}	3609.76	-77.23	11.23	-66.00	-47	-19.00	peak	
Н	4375.58	-84.33	8.60	-75.73	-47	-28.73	peak	
Н	5995.12	-81.37	14.56	-66.81	-47	-19.81	peak	

9.6 TEST RESULTS (Conducted measurement)

Test data reference attachment

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



10. RECEIVER BLOCKING

10.1 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)).

10.2 LIMITS OF RECEIVER BLOCKING

While maintaining the minimum performance criteria as defined in clause 4.3.1.12.3, 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 6, table 7 or table 8.

☐ Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
companion device (dBm)	Frequency	(dBm) (see note 4)	signal
(see notes 1 and 4)	(MHz)		
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × log ₁₀ (OCBW))	2 300 2 330	7 4	
or -74 dBm whichever is less (see note 3)	2 360 2524	The state of the s	0
* * *	2584 2674	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: 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.



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,	≥ I able 7: Receiver B	locking parameters	receiver category 2 equip	ment
	Wanted signal mean power from	Blocking signal	Blocking signal power	Type of blocking
4	companion device (dBm)	Frequency (MHz)	(dBm) (see note 3)	signal
	(see notes 1 and 3)			4
	(-139 dBm + 10 × log₁₀(OCBW) + 10 dB)	2 380	-34	LCW A
-	or (-74 dBm + 10 dB) whichever is less	2 504	1 1 1 1 L	A S
	(see note 2)	2 300		7
		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 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 8: 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 3	
(see note 2)	2 300	_ 2	4
4	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 the test may be performed using a wanted signal up to Pmin + 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.

10.3 TEST PROCEDURE

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

Me	easurement
	Radiated measurement



Page 39 of 89 Report No.: STR211227002001E 10.4 DEVIATION FROM TEST STANDARD No deviation 10.5 TEST SETUP Variable attenuator Performance step size ≤ 1 dB Monitoring Device Signalling Unit Companion Device Direct. Coupler Splitter/ UUT Combiner Blocking Signal Source Spectrum Analyzer Optional





10.6 TEST RESULTS

EUT:	4G Tablet	Model Name :	Tab 12
Temperature:	24 ℃	Relative Humidity	54%
Pressure:	1010 hPa	Test Power :	DC 3.8V
Test Mode :	GFSK Hopping mode (RX)		4 T 1/4 5.

receiver category 2

rederver dategory 2						
Wanted sig	gnal mean po	ower	Blocking signal	Blocking signal	4	PER
from comp	anion devic	e (dBm)	Frequency (MHz)	power(dBm) (see note 3)	PER %	Limit
(see notes	1 and 3)	-	4	× ×		%
4			2 380	4	0.31%	<100/ (
-Ci	00.40	4	2 504		0.38%	≤10%
3	-68.18	147	2 300	-34	0.03%	-100 /
	大	4	2 584	at the	0.09%	≤10%

EUT:	4G Tablet	Model Name :	Tab 12	
Temperature:	24 ℃	Relative Humidity	54%	
Pressure:	1010 hPa	Test Power :	DC 3.8V	
Test Mode :	∏/4-DQPSK Hopping mode (RX)	<u> </u>	7 - 2	- 8

receiver category 2

	10001101 0410	3 - 7 -		Agricultural Control of the Control
Wanted signal mean power	Blocking signal	Blocking signal	大	PER
from companion device (dBm)	Frequency (MHz)	power(dBm) (see note 3)	PER %	Limit
(see notes 1 and 3)	W 3	4		/- % €
4	2 380	Ø ₹	0.40%	<10
	2 504		0.34%	≤10
-66.87	2 300	-34	0.36%	≤10 ≤
	2 584		0.64%	210



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		*	47 4 1
EUT:	4G Tablet	Model Name : Ta	b 12
Temperature:	24 ℃	Relative Humidity 54	. %
Pressure:	1010 hPa	Test Power : DO	C 3.8V
Test Mode :	8-DPSK Hopping mode (RX)		7

receiver category 2

	Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal Frequency (MHz)	Blocking signal power(dBm) (see note 3)	PER %	PER Limit %
5	> L 6	2 380	L	0.59%	-10
		2 504		0.05%	≤10
	-66.82	2 300	-34	0.98%	≤10
		2 584		0.04%	210

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

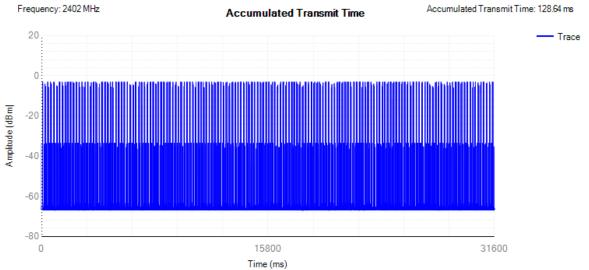


11. TEST RESULTS

11.1 ACCUMULATED TRANSMIT TIME

1	Condition	Mode	Frequency	Accumulated	Limit	Sweep	Burst	Verdict
		4	(MHz)	Transmit Time (ms)	(ms)	Time (ms)	Number	x
	NVNT	1-DH1	2402	128.64	400 🦯	31600	320	Pass
	NVNT 🥒	1-DH1	2480	128.238	400	31600	319	Pass
	NVNT	1-DH3	2402	255.486	400	31600	154	Pass
	NVNT	1-DH3	2480	265.44	400	31600	160	Pass
	NVNT	1-DH5	2402	310.728	400	31600	107	Pass
	NVNT 🤾	1-DH5	2480	264.264	400	31600	91	Pass
	NVNT	2-DH1	2402	125.76	400	31600	320	Pass
	NVNT	2-DH1	2480	123.84	400	31600	320	Pass
T.	NVNT	2-DH3	2402	271.755	400	31600	165	Pass
	NVNT	2-DH3	2480	248.697	400	31600	151	Pass
	NVNT	2-DH5	2402	304.08	400	31600	105	Pass
L	NVNT	2-DH5	2480	294.27	400	31600	102	Pass
	NVNT	3-DH1	2402	125.76	400	31600	320	Pass
	NVNT	3-DH1	2480	123.84	400	31600	320	Pass
	NVNT	3-DH3	2402	269.124	400	3 1600	164	Pass
	NVNT	3-DH3	2480	245.7	400	31600	150	Pass
	NVNT	3-DH5	2402	306.976	400	31600	106	Pass
	NVNT	3-DH5	2480	323.456	400	31600	112	Pass
11								

Dwell NVNT 1-DH1 2402MHz

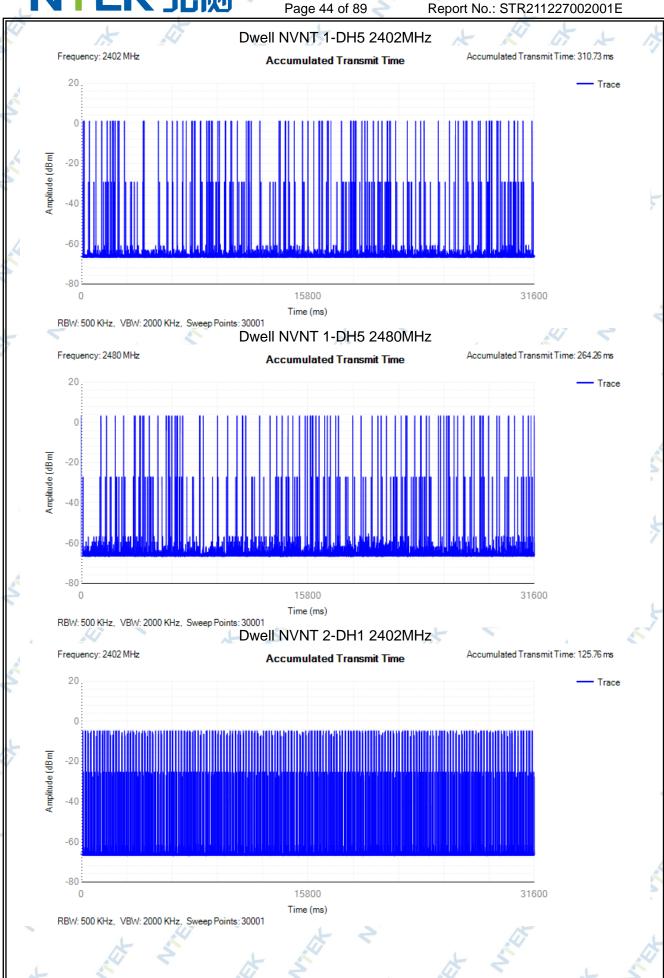


RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

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Report No.: STR211227002001E Dwell NVNT 1-DH1 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 128.24 ms Accumulated Transmit Time 20. Trace Amplitude (dBm) -40 15800 31600 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 1-DH3 2402MHz Frequency: 2402 MHz Accumulated Transmit Time: 255.49 ms **Accumulated Transmit Time** 20 Trace Amplitude (dBm) 15800 31600 0 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 1-DH3 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 265.44 ms **Accumulated Transmit Time** 20 - Trace Amplitude (dBm) -80 0 15800 31600 RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

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Report No.: STR211227002001E Dwell NVNT 2-DH1 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 123.84 ms **Accumulated Transmit Time** 20. Trace Amplitude (dBm) -40 15800 31600 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 2-DH3 2402MHz Frequency: 2402 MHz Accumulated Transmit Time: 271.76 ms **Accumulated Transmit Time** 20 Trace Amplitude (dBm) 15800 31600 0 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 2-DH3 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 248.70 ms **Accumulated Transmit Time** - Trace Amplitude (dBm) -80 0 15800 31600 RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

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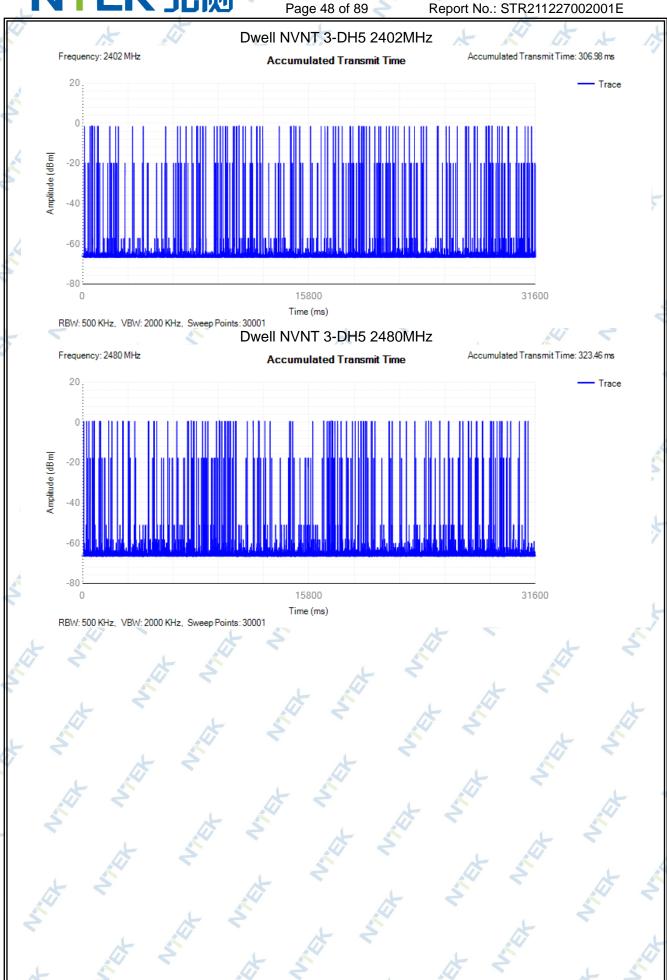
Report No.: STR211227002001E Dwell NVNT 2-DH5 2402MHz Frequency: 2402 MHz Accumulated Transmit Time: 304.08 ms **Accumulated Transmit Time** 20. Trace Amplitude (dBm) 15800 31600 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 2-DH5 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 294.27 ms **Accumulated Transmit Time** 20 Trace Amplitude (dBm) 15800 31600 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 3-DH1 2402MHz Frequency: 2402 MHz Accumulated Transmit Time: 125.76 ms **Accumulated Transmit Time** - Trace 0 Amplitude (dBm) -40 15800 31600 RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

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Report No.: STR211227002001E Dwell NVNT 3-DH1 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 123.84 ms **Accumulated Transmit Time** 20. Trace Amplitude (dBm) -40 15800 31600 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 3-DH3 2402MHz Frequency: 2402 MHz Accumulated Transmit Time: 269.12 ms **Accumulated Transmit Time** 20 Trace Amplitude (dBm) 15800 31600 0 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Dwell NVNT 3-DH3 2480MHz Frequency: 2480 MHz Accumulated Transmit Time: 245.70 ms **Accumulated Transmit Time** - Trace Amplitude (dBm) -80 0 15800 31600 RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001



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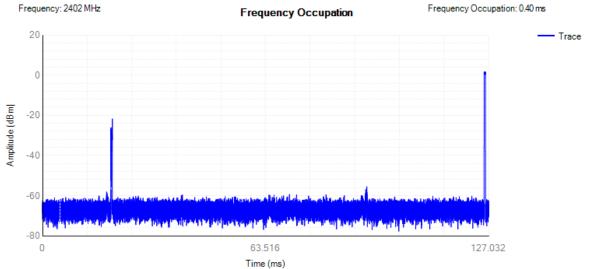




11.2 FREQUENCY OCCUPATION

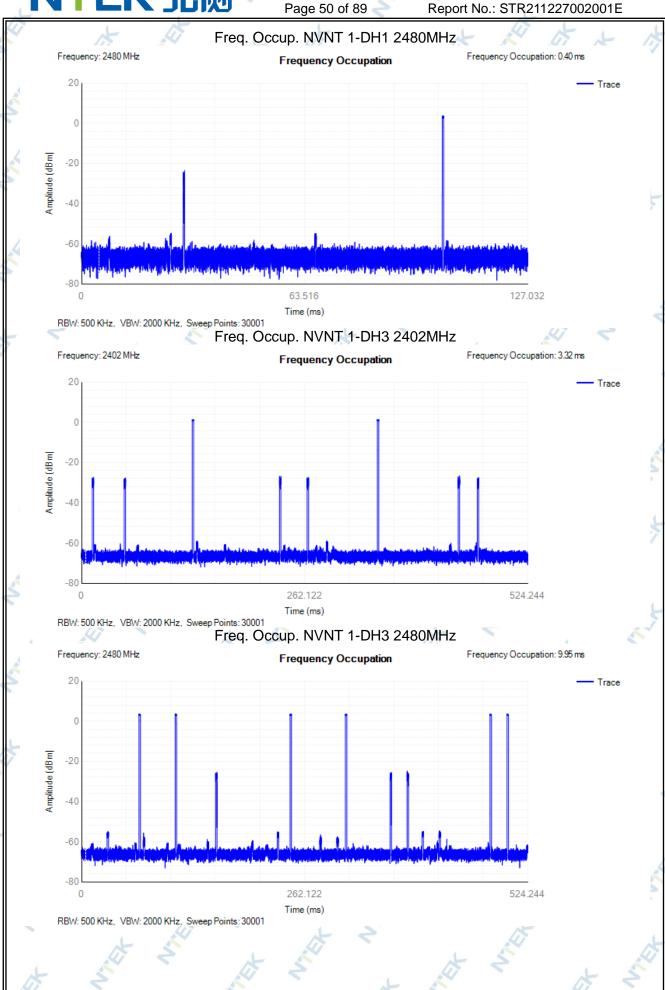
				and the second second			
Condition	Mode	Frequency	Frequency	Limit	Sweep	Burst	Verdict
47		(MHz)	Occupation (ms)	(ms)	Time (ms)	Number	
NVNT	1-DH1	2402	0.402	0	127.032	1	Pass
NVNT	1-DH1	2480	0.402	0	127.032	1	Pass
NVNT	1-DH3	2402	3.318	0	524.244	2	Pass
⊘NVNT ✓	1-DH3	2480	9.954	0	524.244	6	Pass
NVNT	1-DH5	2402	14.52	0	917.664	5	Pass
NVNT	1-DH5	2480	5.808	0	917.664	2	Pass
NVNT	2-DH1	2402	0.786	0	124.188	2	Pass
NVNT	2-DH1	2480	0.387	0	122.292	1	Pass
NVNT	2-DH3	2402	4.941	0	520.452	3	Pass
NVNT	2-DH3	2480	4.941	0	520.452	3	Pass
NVNT	2-DH5	2402	17.376	0	915.136	6	Pass
NVNT	2-DH5	2480	11.54	0 🖍	911.66	4	Pass
NVNT	3-DH1	2402	0.393	0	124.188	1	Pass
NVNT	3-DH1	2480	0.774	0	122.292	2	Pass
NVNT	3-DH3	2402	6.564	0	518.556	4	Pass
NVNT	3-DH3	2480	4.914	0	517.608	3	Pass
NVNT	3-DH5	2402	17.376	0	915.136	6	Pass
NVNT	3-DH5	2480	20.216	0	912.608	7	Pass
				A			

Freq. Occup. NVNT 1-DH1 2402MHz



RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001







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Report No.: STR211227002001E Freq. Occup. NVNT 1-DH5 2402MHz Frequency: 2402 MHz Frequency Occupation: 14.52 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 -60 458.832 917.664 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 1-DH5 2480MHz Frequency: 2480 MHz Frequency Occupation: 5.81 ms **Frequency Occupation** Trace Amplitude (dBm -20 -40 458.832 917.664 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 2-DH1 2402MHz Frequency: 2402 MHz Frequency Occupation: 0.79 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 անախետրի երկորդ արևատարի աշխարհարկան հետում հորդական անատարի արևան արդարարան կարարան հետում հետում հետում հայա -80 62.094 124.188 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001

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Report No.: STR211227002001E Freq. Occup. NVNT 2-DH1 2480MHz Frequency: 2480 MHz Frequency Occupation: 0.39 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 agantelada of Letzga Hindersoning belg gibraif empelosyila lipe dablish a terqalagda en gradulen engila publiqui dalan kitaben 122.292 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 2-DH3 2402MHz Frequency: 2402 MHz Frequency Occupation: 4.94 ms **Frequency Occupation** Trace Amplitude (dBm -20 -40 -60 260.226 520.452 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 2-DH3 2480MHz Frequency: 2480 MHz Frequency Occupation: 4.94 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 -80 260.226 520.452 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001



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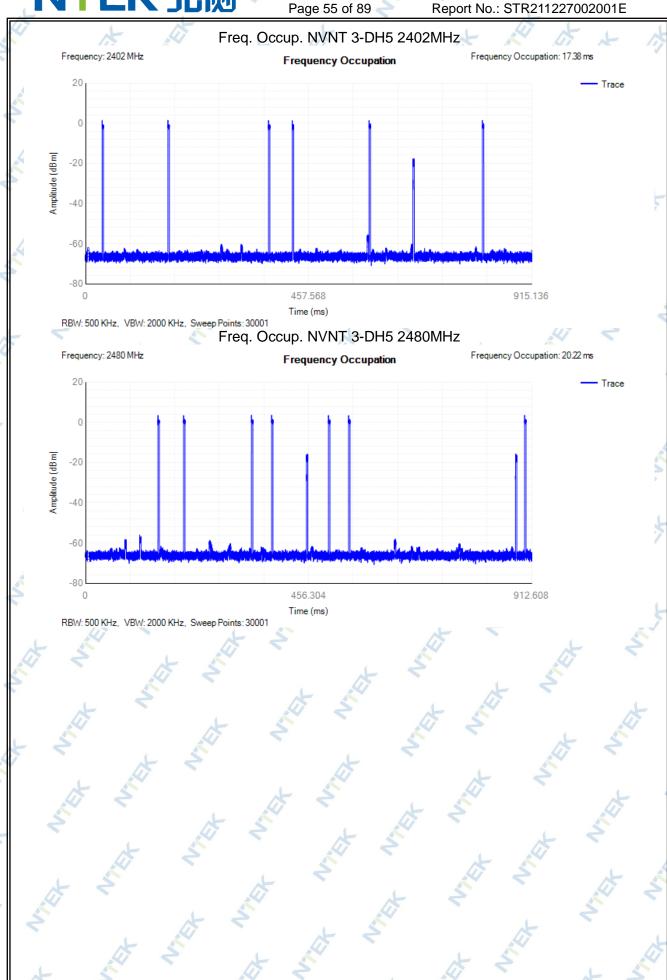
Report No.: STR211227002001E Freq. Occup. NVNT 2-DH5 2402MHz Frequency: 2402 MHz Frequency Occupation: 17.38 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 457.568 915.136 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 2-DH5 2480MHz Frequency: 2480 MHz Frequency Occupation: 11.54 ms **Frequency Occupation** Trace Amplitude (dBm) -20 -40 455.83 911.66 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 3-DH1 2402MHz Frequency: 2402 MHz Frequency Occupation: 0.39 ms Frequency Occupation Trace Amplitude (dBm) -20 -40 ում իր էր որ չներիր որ հերևանի հանրարարար ըստ իր հերի հերակի հարարարարարարարարարի հերևան բարաքի իրեր և դարակական հայաստ 62.094 124.188 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001



NTEK 北测® Page 54 of 89 Report No.: STR211227002001E Freq. Occup. NVNT 3-DH1 2480MHz Frequency Occupation: 0.77 ms Frequency: 2480 MHz **Frequency Occupation** Amplitude (dBm) -20 -40 իրդ հուսարան արդական առանցում երավանդի հանդիրի անդոր կանական անանական հանդարարարան վերաբերության հետորակարարակ 61.146 122.292 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 3-DH3 2402MHz Frequency: 2402 MHz Frequency Occupation: 6.56 ms **Frequency Occupation** Trace Amplitude (dBm -20 -40 259.278 518.556 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001 Freq. Occup. NVNT 3-DH3 2480MHz Frequency: 2480 MHz Frequency Occupation: 4.91 ms Frequency Occupation Trace Amplitude (dBm) -20 -40 258.804 517.608 Time (ms) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 30001



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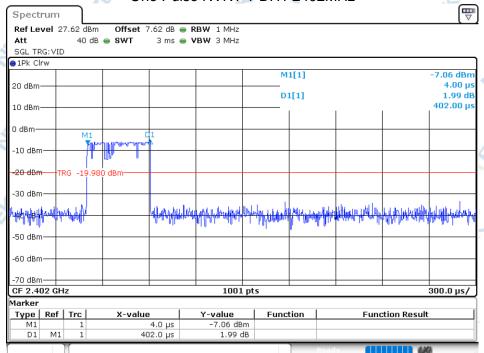




11.3 ONE PULSE DWELL TIME

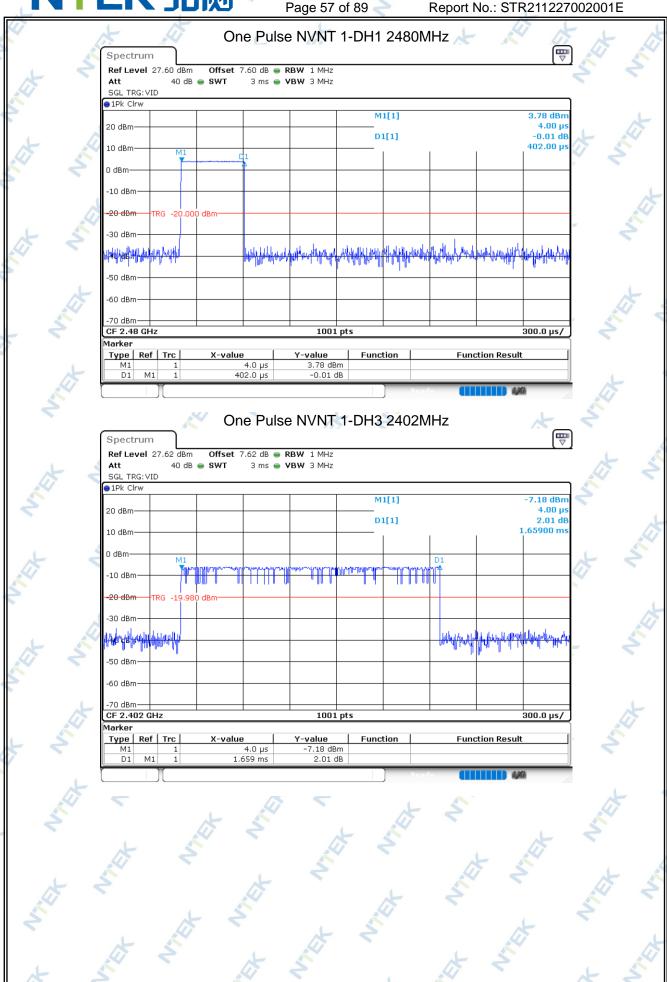
Condition	Mode	Frequency (MHz)	Pulse Time (ms)
NVNT	1-DH1	2402	0.402
NVNT	1-DH1	2480	0.402
NVNT	1-DH3	2402	1.659
NVNT 🏑	1-DH3	2480	1.659
NVNT	1-DH5	2402	2.904
NVNT	1-DH5	2480	2.904
NVNT	2-DH1	2402	0.393
NVNT	2-DH1	2480	0.387
NVNT	2-DH3	2402	1.647
NVNT	2-DH3	2480	1.647
NVNT	2-DH5	2402	2.896
NVNT	2-DH5	2480	2.885
NVNT	3-DH1	2402	0.393
NVNT	3-DH1	2480	0.387
NVNT	3-DH3	2402	1.641
NVNT	3-DH3	2480	1.638
NVNT	3-DH5	2402	2.896
NVNT	3-DH5	2480	2.888





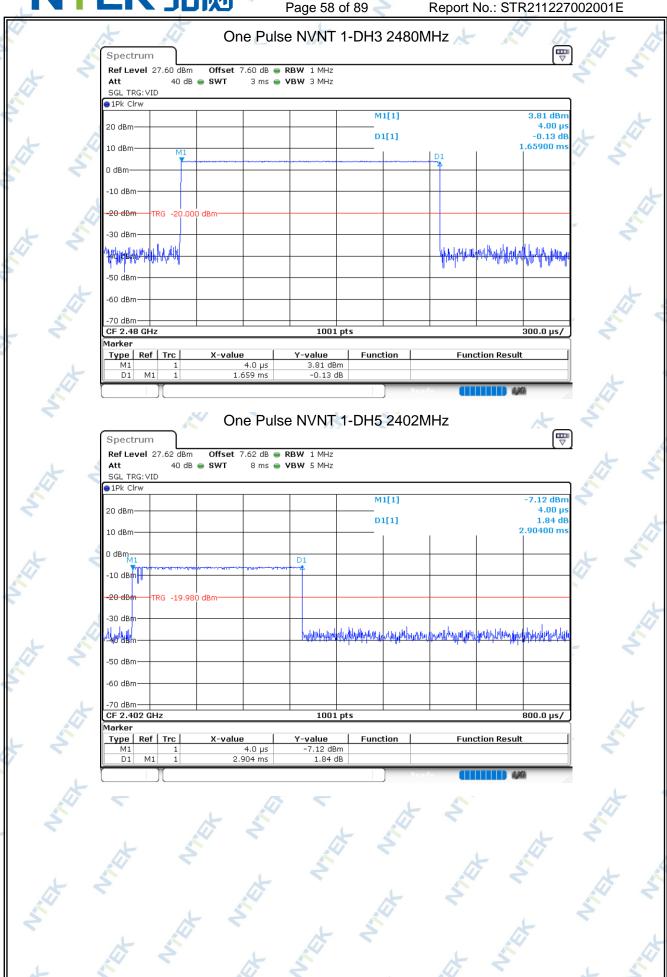


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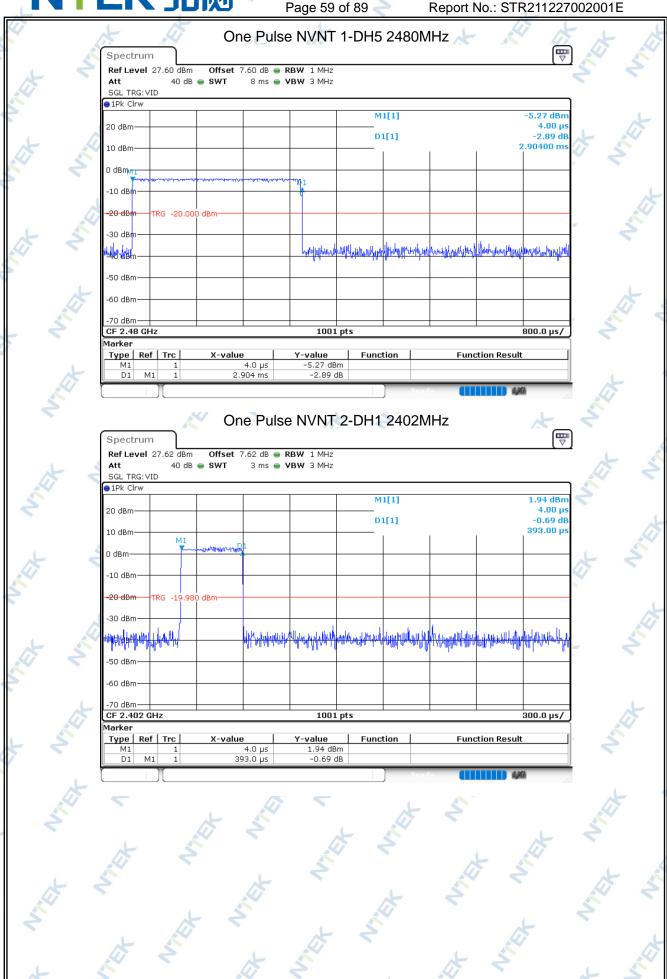


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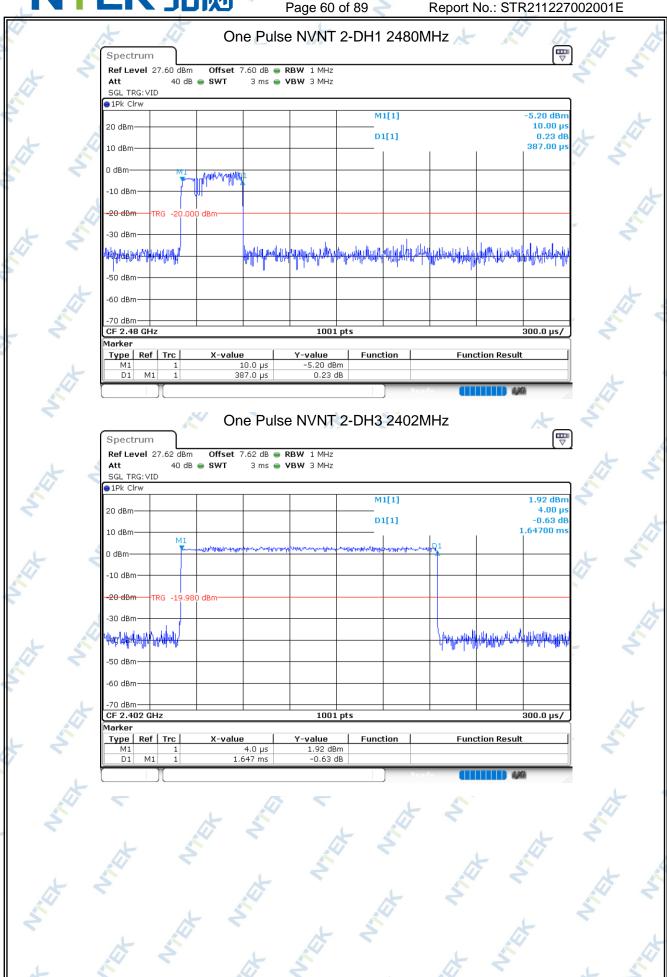


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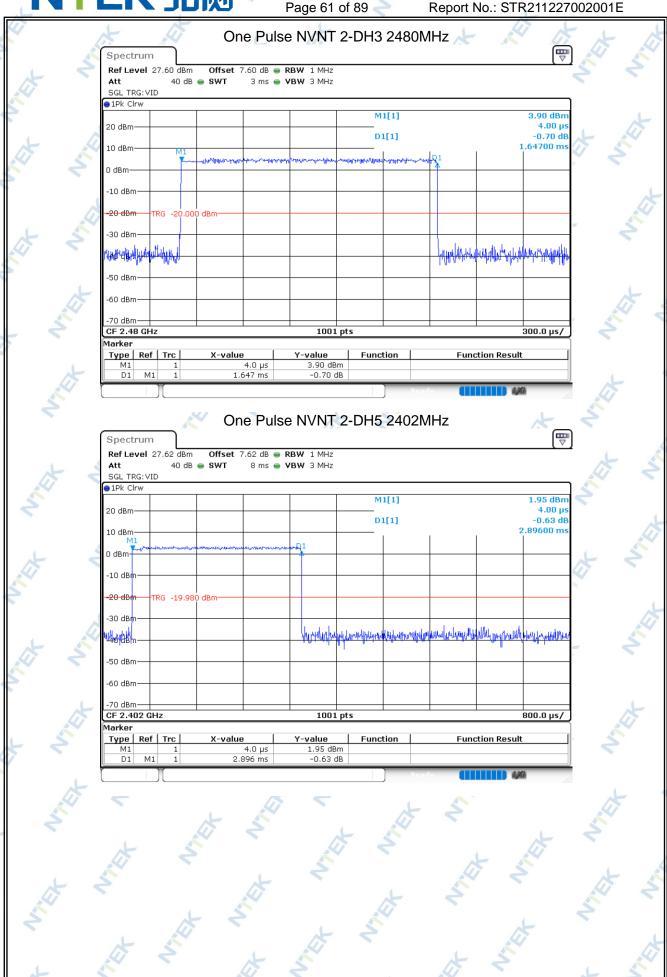


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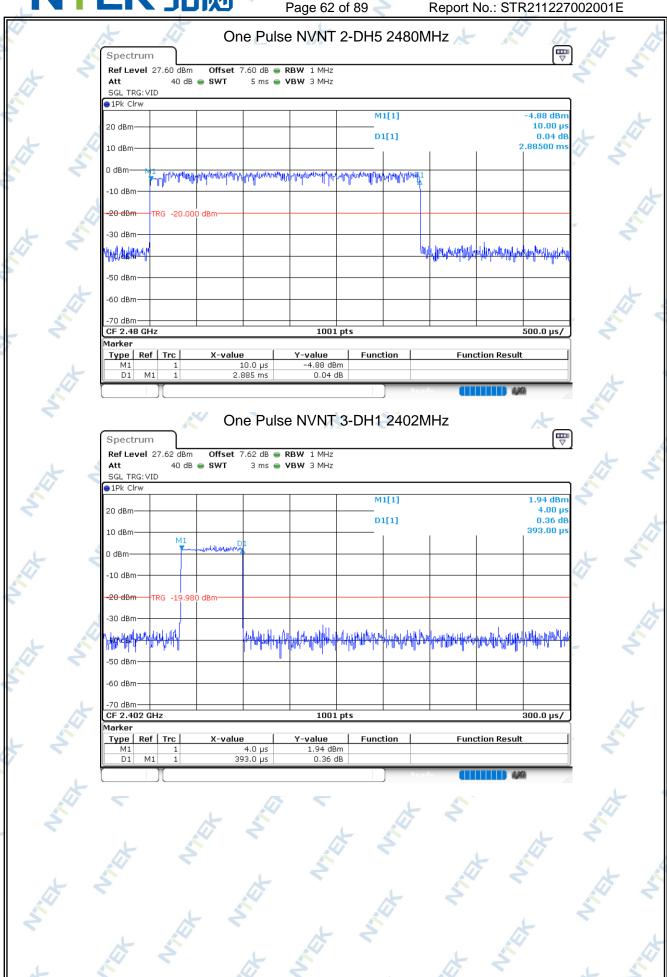


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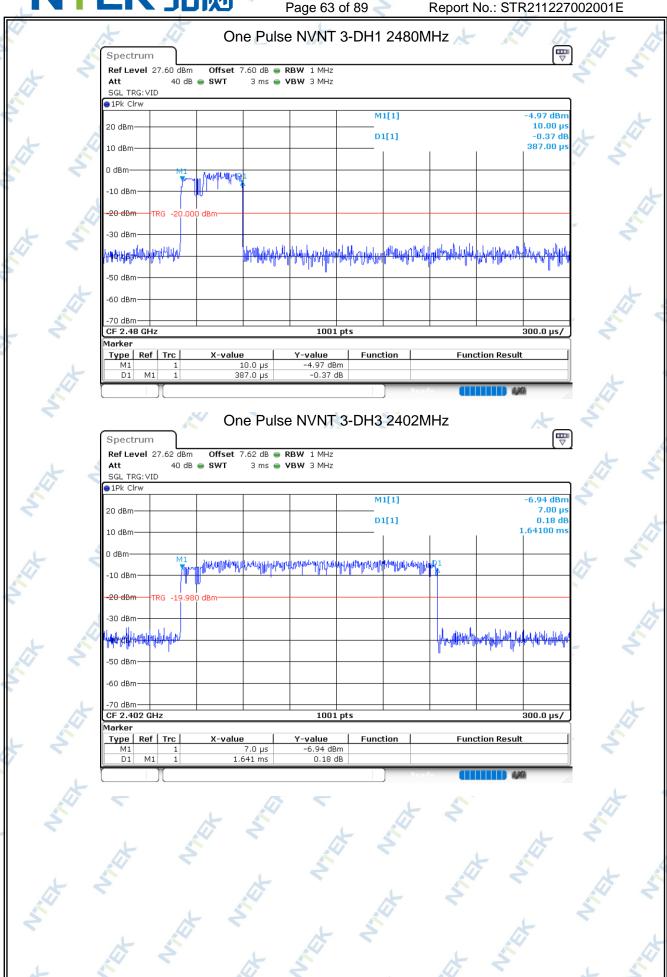


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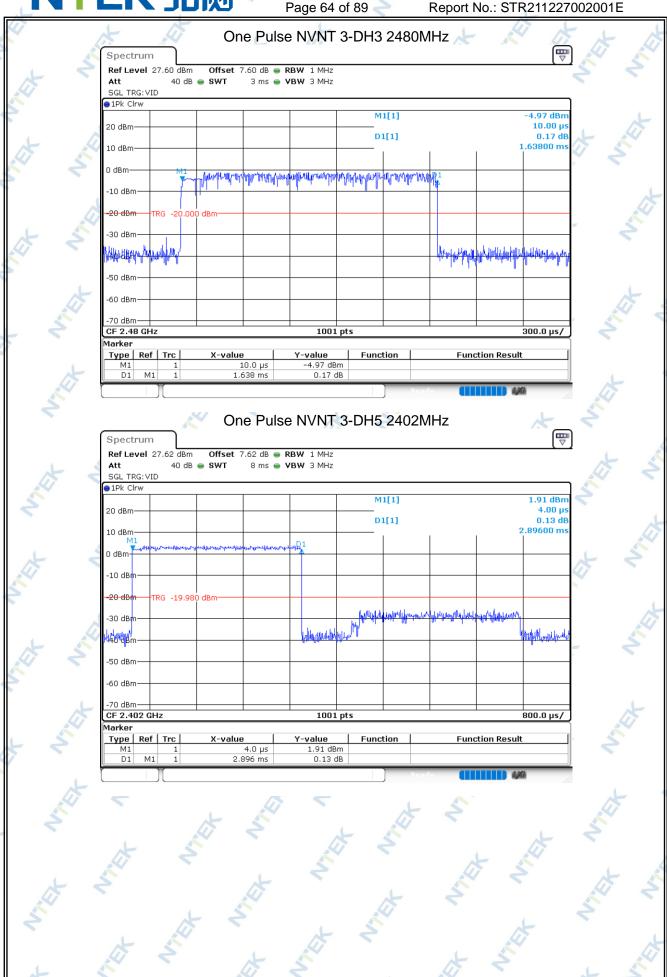


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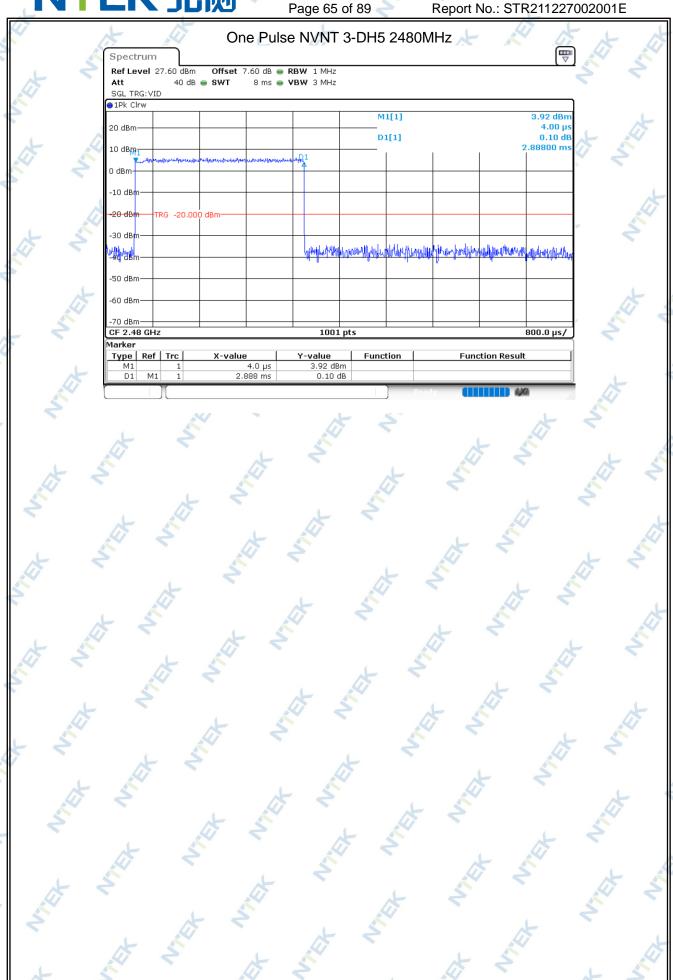


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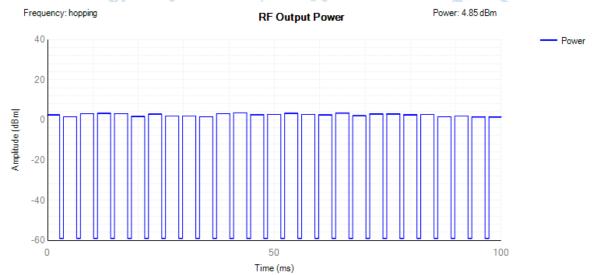




1	1.4 RF OUTI	PUT POV	VER
	Condition	Mode	F

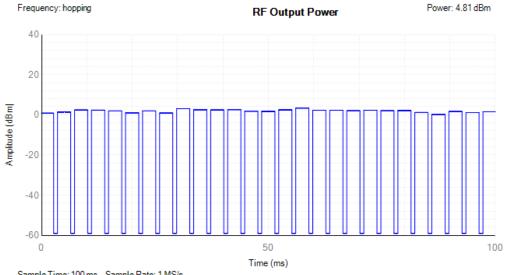
Condition	Mode	Frequency	Max Burst RMS	// Burst	Max EIRP	Limit	Verdict
4		(MHz)	Power (dBm)	Number	(dBm)	(dBm)	
NVNT	1-DH5	hopping	3.44	27	4.85	20	Pass
NVNT	2-DH5	hopping	3.4	27	4.81	20	Pass
NVNT	3-DH5	hopping	3.4	28	4.81	20	Pass
NVLT	1-DH5	hopping 🧪	2.76	27	4.17	20	Pass
NVLT S	2-DH5	hopping	2.81	27	4.22	20	Pass
NVLT	3-DH5	hopping	2.83	28	4.24	20	Pass
NVHT	1-DH5	hopping	2.73	27	4.14	20	Pass
NVHT	2-DH5	hopping	2.71	27	4.12	20	Pass
NVHT 🔏	3-DH5	hopping	2.63	28	4.04	20	Pass

Power NVNT 1-DH5 2402MHz



Sample Time: 100 ms, Sample Rate: 1 MS/s

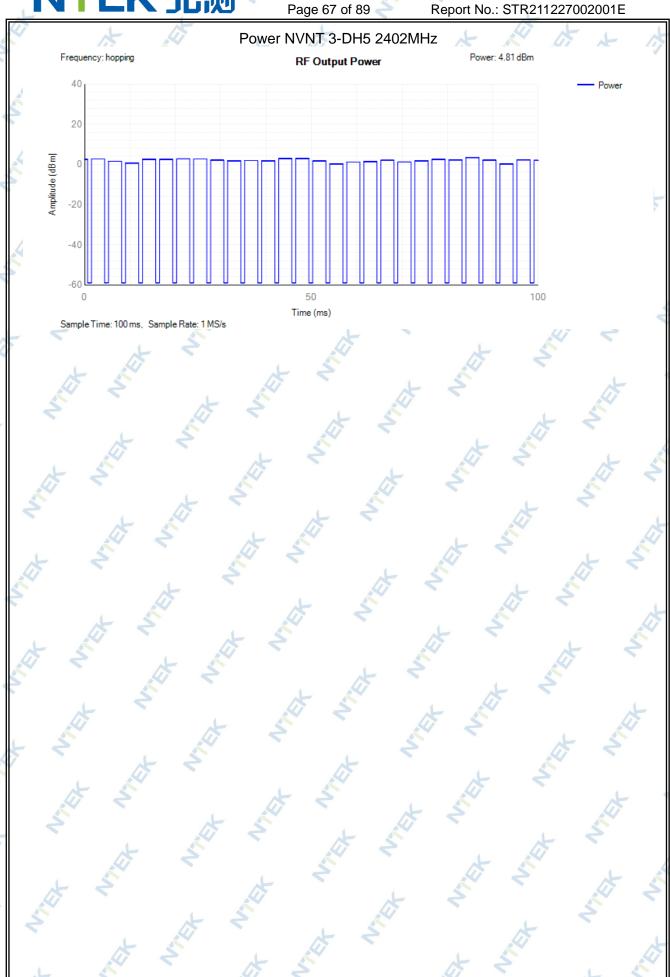
Power NVNT 2-DH5 2402MHz



Sample Time: 100 ms, Sample Rate: 1 MS/s



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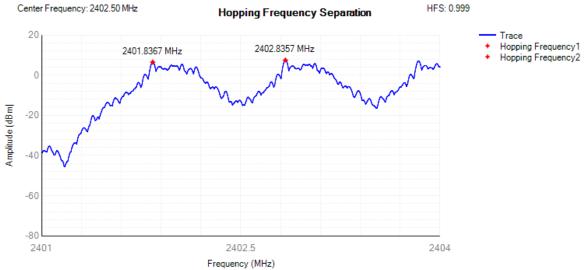




11.5 HOPPING FREQUENCY SEPARATION

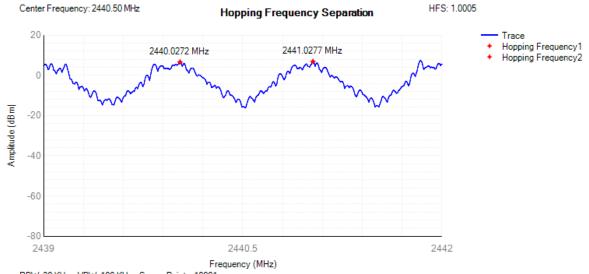
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2401.8367	2402.8357	0.999	0.1	Pass
NVNT	1-DH5	2440.0272	2441.0277	1.0005	0.1	Pass
NVNT	1-DH5	2478.8361	2479.8342	0.9981	0.1	Pass
NVNT	2-DH5	2402.0275	2403.0271	0.9996	0.1	Pass
NVNT	2-DH5	2441.0122	2442.0205	1.0083	0.1	Pass
NVNT	2-DH5	2479.0275	2480.0283	1.0008	0.1	Pass
NVNT	3-DH5	2402.0275	2403.0301	1.0026	0.1	Pass
NVNT	3-DH5	2441.0275	2442.0277	1.0002	0.1	Pass
NVNT	3-DH5	2479.1655	2480.1654	0.9999	0.1	Pass

HFS NVNT 1-DH5 2402MHz



RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001

HFS NVNT 1-DH5 2441MHz

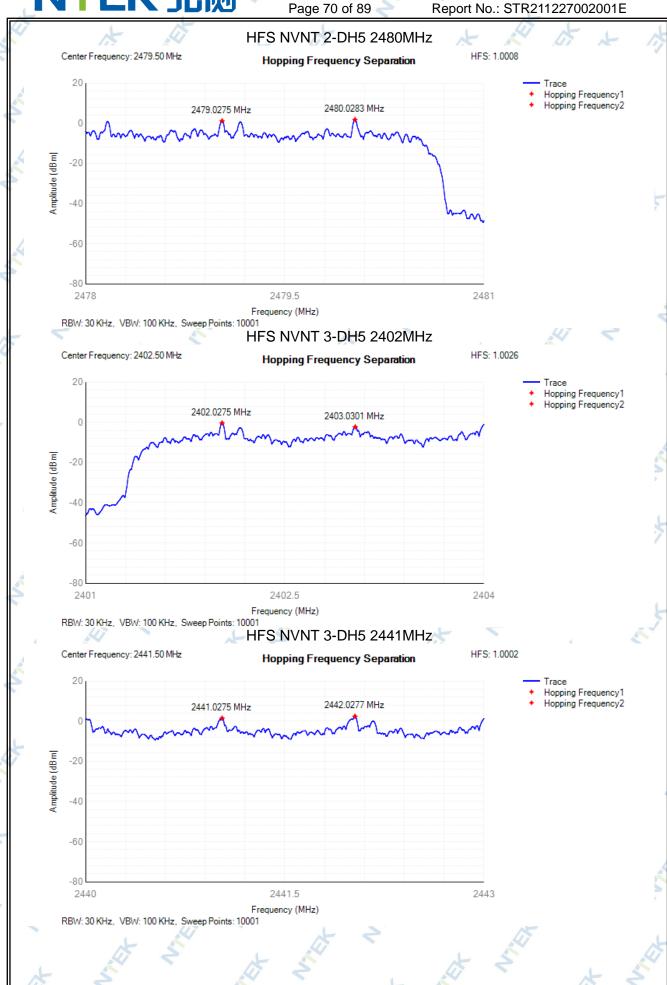


RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001

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Report No.: STR211227002001E HFS NVNT 1-DH5 2480MHz Center Frequency: 2479.50 MHz HFS: 0.9981 Hopping Frequency Separation Trace Hopping Frequency1 2478.8361 MHz 2479.8342 MHz Hopping Frequency2 Amplitude (dBm) -20 -40 -60 2478 2479.5 2481 Frequency (MHz) RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001 HFS NVNT 2-DH5 2402MHz Center Frequency: 2402.50 MHz HFS: 0.9996 Hopping Frequency Separation Hopping Frequency1 Hopping Frequency2 2402.0275 MHz 2403.0271 MHz Amplitude (dBm -20 -40 -60 2401 2402.5 2404 Frequency (MHz) RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001 HFS NVNT 2-DH5 2441MHz HFS: 1.0083 Center Frequency: 2441.50 MHz Hopping Frequency Separation Hopping Frequency1 Hopping Frequency2 2441.0122 MHz 2442.0205 MHz Amplitude (dBm) -20 -40 -80 2440 2441.5 2443 Frequency (MHz) RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001

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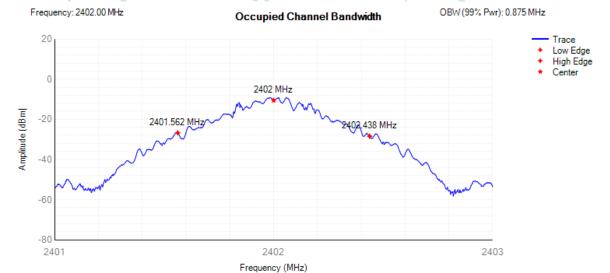
Report No.: STR211227002001E HFS NVNT 3-DH5 2480MHz Center Frequency: 2479.50 MHz HFS: 0.9999 Hopping Frequency Separation Trace Hopping Frequency1 Hopping Frequency2 2479.1655 MHz 2480.1654 MHz Amplitude (dBm) -20 -40 -60 2478 Frequency (MHz)
RBW: 30 KHz, VBW: 100 KHz, Sweep Points: 10001



11.6 OCCUPIED CHANNEL BANDWIDTH

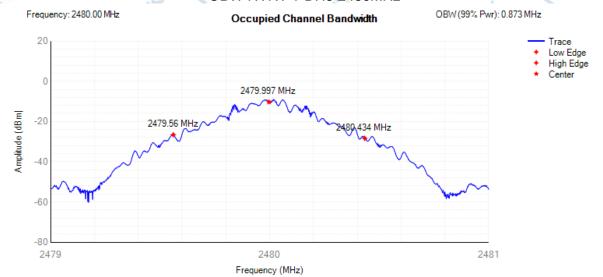
Condition	Mode	Frequency	Center	OBW	Lower Edge	Upper Edge	Limit OBW (MHz)	Verdict
大		(MHz)	Frequency (MHz)	(MHz)	(MHz)	(MHz)		
NVNT	1-DH5	2402	2402	0.875	2401.562	2402.438	2400 - 2483.5MHz	Pass
NVNT	1-DH5	2480	2479.997	0.873	2479.56	2480.434	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2402	2402.001	1.189	2401.407	2402.595	2400 - 2483.5MHz	Pass
NVNT	2-DH5	2480	2479.998	1.179	2479.409	2480.587	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2402	2402	1.195	2401.403	2402.597	2400 - 2483.5MHz	Pass
NVNT	3-DH5	2480	2479.998	1.199	2479.399	2480.597	2400 - 2483.5MHz	Pass

OBW NVNT 1-DH5 2402MHz



RBW: 20 KHz, VBW: 100 KHz, Sweep Points: 1001

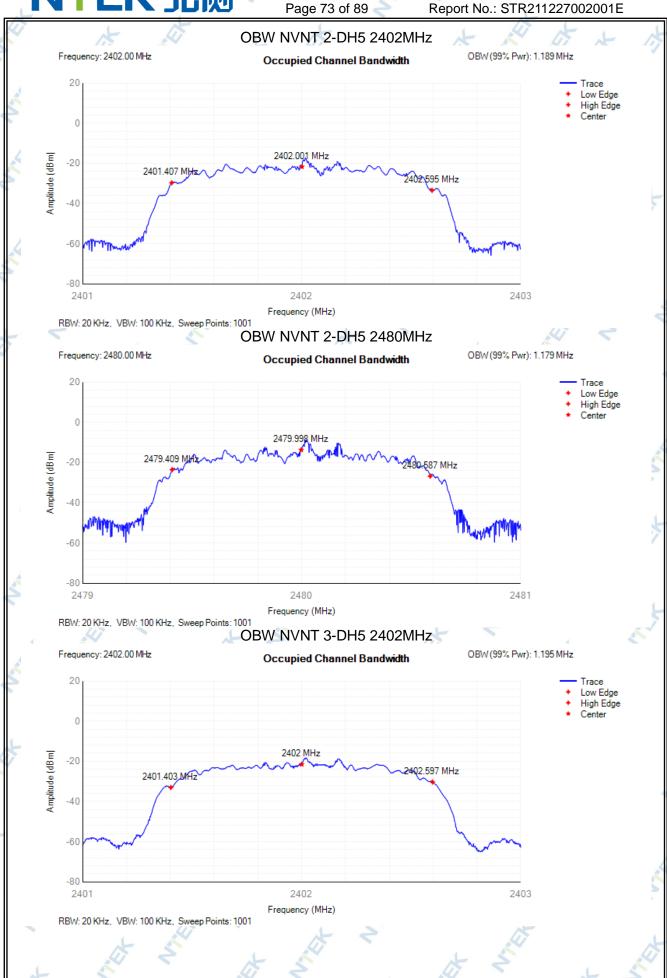
OBW NVNT 1-DH5 2480MHz



RBW: 20 KHz, VBW: 100 KHz, Sweep Points: 1001



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Report No.: STR211227002001E OBW NVNT 3-DH5 2480MHz Frequency: 2480.00 MHz OBW (99% Pwr): 1.199 MHz Occupied Channel Bandwidth Trace Low Edge High Edge Center Amplitude (dBm) -20 2480.597 MHz 2479.399 MHz -40 MININA, 2479 2480 2481 Frequency (MHz) RBW: 20 KHz, VBW: 100 KHz, Sweep Points: 1001





W .	大	AT .	L 0	A.	AU OF A	- 1
			SIONS IN THE OUT-OF		2 2 4	
Condition	Mode	Frequency	OOB Frequency	Level	Limit	Verdict
A D () I =	4 5115	(MHz)	(MHz)	(dBm/MHz)	(dBm/MHz)	
NVNT	1-DH5	hopping	2399.5	-60.79	-10	Pass
NVNT	1-DH5	hopping	2398.5	-63.31	-20	Pass
NVNT	1-DH5	hopping	2484	-62.1	-10	Pass
NVNT	1-DH5	hopping	2485	-62.28	-20	Pass
NVNT_	1-DH5	hopping	2399.5	-53.02	-10	Pass
NVNT	1-DH5	hopping	2398.5	-62.94	-20	Pass
NVNT	1-DH5	hopping	2484	-62.99	-10	Pass
NVNT	1-DH5	hopping	2485	-62.72	-20	Pass
NVNT 🧷	2-DH5	hopping	2399.5	-63.25	-10	Pass
NVNT	2-DH5	hopping	2399.311	-62.83	-10	Pass
NVNT	2-DH5	hopping	2398.311	-63.22	-20	Pass
NVNT	2-DH5	hopping	2398.122	-63.33	-20	Pass
NVNT	2-DH5	hopping	2484	-63.21	-10	Pass
NVNT	2-DH5	hopping	2485	-63.17	-20	Pass
NVNT	2-DH5	hopping	2399.5	-63.29	-10	Pass
NVNT	2-DH5	hopping	2399.311	-63.03	-10	Pass
NVNT	2-DH5	hopping	2398.311	-63.09	-20	Pass
NVNT	2-DH5	hopping	2398.122	-62.91	-20	Pass
NVNT	2-DH5	hopping	2484	-63.02	-10	Pass
NVNT	2-DH5	hopping	2484.179	-63.15	-10	Pass
NVNT	2-DH5	hopping	2485.179	-63.1	-20	Pass
NVNT	2-DH5	hopping	2485.358	-63.28	-20	Pass
NVNT	3-DH5	hopping	2399.5	-37.61	-10	Pass
NVNT	3-DH5	hopping	2399.305	-37.71	-10	Pass
NVNT	3-DH5	hopping	2398.305	-37.77	-20	Pass
NVNT	3-DH5	hopping	2398.11	-37.75	-20	Pass
NVNT	3-DH5	hopping	2484	-37.6	-10	Pass
NVNT	3-DH5	hopping	2484.179	-37.58	-10	Pass
NVNT	3-DH5	hopping	2485.179	-37.43	-20	Pass
NVNT	3-DH5	hopping	2485.358	-37.55	-20	Pass
NVNT	3-DH5	hopping	2399.5	-63.28	-10	Pass
NVNT	3-DH5	hopping	2399.305	-63.27	-10	Pass
NVNT	3-DH5	hopping	2398.305	-63.34	-20	Pass
NVNT	3-DH5	hopping	2398.11	-63.42	-20	Pass
NVNT	3-DH5	hopping	2484	-63.2	-10	Pass
NVNT	3-DH5	hopping	2484.199	-62.67	-10	Pass
NVNT	3-DH5	hopping	2485.199	-63.17	-20	Pass
NVNT	3-DH5	hopping	2485.398	-63.28	-20	Pass
INVINI	טווט-ט	порріпу	2403.330	-03.20	-20	газэ



NTEK 北测[®] Page 76 of 89 Report No.: STR211227002001E Tx. Emissions OOB NVNT 1-DH5 2402MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain OOB -20 -40 -60 -80 2483.5 2486 2397.5 2398.75 2484.75 Frequency (MHz) RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001 Tx. Emissions OOB NVNT 1-DH5 2480MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain Limit OOB -40 -60 -80 -100 2398.75 2483.5 2400 2484.75 2486 Frequency (MHz) RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001 Tx. Emissions OOB NVNT 2-DH5 2402MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain Limit OOB -20 Amplitude (dBm) -40 -60 -80 2398.561 2483.5 2484.75 2486 2397.122

Frequency (MHz)

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





Report No.: STR211227002001E Tx. Emissions OOB NVNT 2-DH5 2480MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain Limit OOB -80 -100 2483.5 2486.358 2397.122 2398.561 2400 2484.929 Frequency (MHz) RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001 Tx. Emissions OOB NVNT 3-DH5 2402MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain OOB -20 Implitude (dBm) -40 -60 -80 2398.555 2400 2483.5 2484.929 2486.358 2397.11 Frequency (MHz) RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001 Tx. Emissions OOB NVNT 3-DH5 2480MHz Frequency: hopping Transmitter unwanted emissions in the out-of-band domain Limit OOB Amplitude (dBm) -80 -1002397.11 2398.555 2483.5 2484.949 2486.398 RBW: 1000 KHz, VBW: 3000 KHz, Sweep Points: 5001





Condition	Mode	Frequency	ITED EMISSIONS IN TH	Spur Freq	Spur Level	Spur Level	Limit	Verdi
NVNT	1-DH5	(MHz) 2402	30 MHz -47 MHz	(MHz) 32.9	Peak(dBm) -67.29	RMS(dBm) NA	(dBm) -36	Pass
NVNT	1-DH5	2402	47 MHz -74 MHz	49.4	-66.04	NA NA	-54	Pass
NVNT	1-DH5	2402	74 MHz -87.5 MHz	74.45	-67.02	NA	-36	Pass
NVNT	1-DH5	2402	87.5 MHz -118 MHz	112.55	-66.43	NA NA	-54	Pass
NVNT	1-DH5	2402	118 MHz -174 MHz	163.3	-65.91	NA	-36	Pas
NVNT	1-DH5	2402	174 MHz -230 MHz	193.6	-64.2	NA	-54	Pas
NVNT NVNT	1-DH5 1-DH5	2402 2402	230 MHz -470 MHz 470 MHz -694 MHz	264.25 614.95	-65 -64.58	NA NA	-36 -54	Pas Pas
NVNT	1-DH5	2402	694 MHz -1000 MHz	963.95	-63.89	NA NA	-36	Pas
NVNT	1-DH5	2402	1000 MHz -2398 MHz	2396	-51.81	NA NA	-30	Pas
NVNT	1-DH5	2402	2485.5 MHz -12750 MHz	6874	-45.22	NA	-30	Pas
NVNT	1-DH5	2441	30 MHz -47 MHz	35.45	-66.41	NA /	-36	Pas
NVNT	1-DH5	2441	47 MHz -74 MHz	68.2	-66.28	NA	-54	Pas
NVNT	1-DH5	2441	74 MHz -87.5 MHz	74.85	-66.27	NA NA	-36	Pas
NVNT NVNT	1-DH5 1-DH5	2441 2441	87.5 MHz -118 MHz	111.95 153.7	-66.05 -64.77	NA NA	-54 -36	Pas
NVNT	1-DH5	2441	118 MHz -174 MHz 174 MHz -230 MHz	184.5	-64.77 -65.04	NA NA	-36 -54	Pas
NVNT .	1-DH5	2441	230 MHz -470 MHz	428.75	-64.37	NA NA	-36	Pas
NVNT	1-DH5	2441	470 MHz -694 MHz	675.4	-65.11	NA NA	-54	Pas
NVNT	1-DH5	2441	694 MHz -1000 MHz	935.7	-63.55	NA 🗸	-36	Pas
NVNT	1-DH5	2441	1000 MHz -2398 MHz	2353	-53.52	NA NA	-30	Pas
NVNT	1-DH5	2441	2485.5 MHz -12750 MHz	6947	-44.54	NA —	-30	Pas
NVNT	1-DH5	2480	30 MHz -47 MHz	46.84	-66.13	NA	-36	Pas
NVNT /	1-DH5	2480	47 MHz -74 MHz	47.31	-66.68	NA	-54	Pas
NVNT	1-DH5	2480	74 MHz -87.5 MHz	82.28	-66.14	NA NA	-36	Pas
NVNT	1-DH5	2480	87.5 MHz -118 MHz	88.08	-66.64	NA	-54	Pas
NVNT	1-DH5 1-DH5	2480 2480	118 MHz -174 MHz 174 MHz -230 MHz	159.88 185.78	-66.18 -64.42	NA NA	-36 -54	Pa: Pa:
NVNT	1-DH5	2480	230 MHz -470 MHz	261.29	-64.38	NA NA	-36	Pas
NVNT	1-DH5	2480	470 MHz -694 MHz	644.99	-64.74	NA	-54	Pas
NVNT	1-DH5	2480	694 MHz -1000 MHz	816.80	-63.68	NA	-36	Pas
NVNT	1-DH5	2480	1000 MHz -2398 MHz	1740.18	-52.6	NA	-30	Pas
NVNT	1-DH5	2480	2485.5 MHz -12750 MHz	5172.31	-42.48	NA	-30	Pas
NVNT	2-DH5	2402	30 MHz -47 MHz	45.9	-66.46	NA	-36	Pas
NVNT	2-DH5	2402	47 MHz -74 MHz	55.15	-66.22	NA	-54	Pas
NVNT NVNT	2-DH5 2-DH5	2402 2402	74 MHz -87.5 MHz 87.5 MHz -118 MHz	76.75 115.4	-66.17 -66.15	NA NA	-36 -54	Pas
NVNT	2-DH5	2402	118 MHz -174 MHz	148.45	-65.86	NA NA	-36	Pas
NVNT	2-DH5	2402	174 MHz -230 MHz	187.3	-64.81	NA NA	-54	Pas
NVNT	2-DH5	2402	230 MHz -470 MHz	311.3	-65.33	NA .	-36	Pas
NVNT	2-DH5	2402	470 MHz -694 MHz	625.45	-64.89	NA	-54	Pas
NVNT	2-DH5	2402	694 MHz -1000 MHz	936.65	-64.19	NA	-36	Pas
NVNT	2-DH5	2402	1000 MHz -2398 MHz	2264	-52.84	NA NA	-30	Pas
NVNT	2-DH5	2402	2485.5 MHz -12750 MHz	6936	-45.08	NA	-30	Pas
NVNT	2-DH5	2441	30 MHz -47 MHz	46.45	-66.89	NA NA	-36	Pas
NVNT	2-DH5	2441	47 MHz -74 MHz	62.8	-66.57	NA NA	-54	Pas
NVNT NVNT	2-DH5 2-DH5	2441 2441	74 MHz -87.5 MHz 87.5 MHz -118 MHz	80.7 110.85	-66.52 -65.51	NA NA	-36 -54	Pas
NVNT	2-DH5	2441	118 MHz -174 MHz	152.05	-65.13	NA NA	-36	Pas
NVNT	2-DH5	2441	174 MHz -230 MHz	188.85	-65.64	NA NA	-54	Pas
NVNT 🟑	2-DH5	2441	230 MHz -470 MHz	331.6	-64.22	NA	-36	Pas
NVNT	2-DH5	2441	470 MHz -694 MHz	520.15	-64.72	NA	54 🐇	Pas
NVNT	2-DH5	2441	694 MHz -1000 MHz	703.85	-64.19	NA 💪	-36	Pas
NVNT	2-DH5	2441	1000 MHz -2398 MHz	1939	-53.31	NA NA	-30	Pas
NVNT	2-DH5	2441	2485.5 MHz -12750 MHz	6845.5	-44.66	NA NA	-30	Pas
NVNT /	2-DH5 2-DH5	2480 2480	30 MHz -47 MHz	43.01 70.77	-66.73	NA NA	-36	Pas
NVNT	2-DH5 2-DH5	2480	47 MHz -74 MHz 74 MHz -87.5 MHz	79.84	-66.15 -67.08	NA NA	-54 -36	Pas
NVNT	2-DH5	2480	87.5 MHz -118 MHz	106.32	-66.07	NA NA	-54	Pas
NVNT	2-DH5	2480	118 MHz -174 MHz	171.03	-66.13	NA L	-36	Pas
NVNT	2-DH5	2480	174 MHz -230 MHz	204.95	-65.15	NA	-54	Pas
NVNT	2-DH5	2480	230 MHz -470 MHz	274.07	-63.51	NA	-36	Pas
NVNT	2-DH5	2480	470 MHz -694 MHz	609.44	-64.47	NA	-54 🥼	_ Pas
NVNT	2-DH5	2480	694 MHz -1000 MHz	896.84	-63.02	NA	-36	Pas
NVNT	2-DH5	2480	1000 MHz -2398 MHz	1918.89	-53.5	NA	-30	Pas
NVNT	2-DH5	2480	2485.5 MHz -12750 MHz	6912.99	-44.25	NA NA	-30	Pas
NVNT NVNT	3-DH5	2402	30 MHz -47 MHz	43.15	-67.37	NA NA	-36	Pas
NVNT NVNT	3-DH5 3-DH5	2402 2402	47 MHz -74 MHz 74 MHz -87.5 MHz	63.35 74.15	-65.6 -65.27	NA NA	-54 -36	Pas
NVNT	3-DH5	2402	87.5 MHz -118 MHz	93	-65.27 -65.94	NA NA	-36 -54	Pas
NVNT	3-DH5	2402	118 MHz -174 MHz	131.7	-65.88	NA NA	-36	Pas
	0 0110		1 1 - 17 11 14 17 T 17 11 14	.01.7	00.00	1 7/ 1		. 0

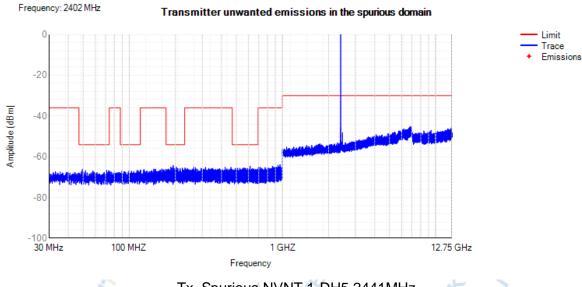


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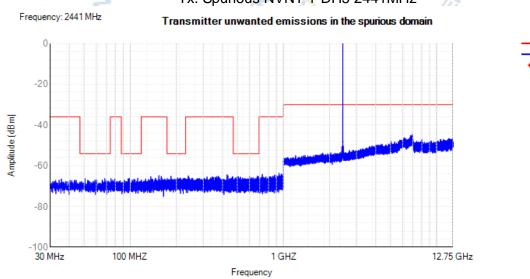
Report No.:	STR211227002001E
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П			A	4.				1	4
1	NVNT	3-DH5	2402	230 MHz -470 MHz	288.15	-64.89	NA /	-36	Pass
۱	NVNT	3-DH5	2402	470 MHz -694 MHz	673.35	-65.06	NA	-54	Pass
I	NVNT	3-DH5	2402	694 MHz -1000 MHz	750.85	-63.82	NA S	-36	Pass
I	NVNT	3-DH5	2402	1000 MHz -2398 MHz	2274.5	-52.41	NA	-30	Pass
I	NVNT	3-DH5	2402	2485.5 MHz -12750 MHz	5187.5	-44.53	NA	-30	Pass
I	NVNT	3-DH5	2441	30 MHz -47 MHz	44.5	-66.55	NA	-36	Pass
H	NVNT	3-DH5	2441	47 MHz -74 MHz	66.3	-65.4	NA	-54	Pass
11	NVNT	3-DH5	2441	74 MHz -87.5 MHz	84.4	-65.67	// NA	-36	Pass
I	NVNT	3-DH5	2441	87.5 MHz -118 MHz	103	-64.69	NA	-54	Pass
I	NVNT	3-DH5	2441	118 MHz -174 MHz	153.4	-65.83	NA	-36	Pass
I	NVNT	3-DH5	2441	174 MHz -230 MHz	201.4	-65.72	NA	-54	Pass
H	NVNT	3-DH5	2441	230 MHz -470 MHz	392.6	-64.97	NA	-36	Pass
I	NVNT	3-DH5	2441	470 MHz -694 MHz	631.5	-64.73	NA	-54	Pass
I	NVNT	3-DH5	2441	694 MHz -1000 MHz	967.65	-64.24	NA NA	-36	Pass
I	NVNT	3-DH5	2441	1000 MHz -2398 MHz	2062	-52.3	NA	-30	Pass
I	NVNT	3-DH5	2441	2485.5 MHz -12750 MHz	6896.5	-44.78	NA	-30	Pass
I	NVNT	3-DH5	2480	30 MHz -47 MHz	32.20	-65.96	NA 🕢	-36	Pass
I	NVNT	3-DH5	2480	47 MHz -74 MHz	61.63	-66.76	NA 🧪	-54	Pass
H	NVNT	3-DH5	2480	74 MHz -87.5 MHz	84.76	-65.1	NA NA	-36	Pass
il	NVNT	3-DH5	2480	87.5 MHz -118 MHz	107.19	-66.19	NA	-54	Pass
II	NVNT	3-DH5	2480	118 MHz -174 MHz	167.09	-65.66	NA	-36	Pass
I	NVNT	3-DH5	2480	174 MHz -230 MHz	217.60	-65.45	NA	-54	Pass
I	NVNT	3-DH5	2480	230 MHz -470 MHz	356.95	-64.89	NA	-36	Pass
I	NVNT	3-DH5	2480	470 MHz -694 MHz	484.80	-64.74	NA /	-54	Pass
	NVNT	3-DH5	2480	694 MHz -1000 MHz	961.18	-64.04	NA	-36	Pass
I	NVNT	3-DH5	2480	1000 MHz -2398 MHz	2223.5	-52.59	NA NA	-30	Pass
	NVNT	3-DH5	2480	2485.5 MHz -12750 MHz	6869	-44.54	NA	-30	Pass
ш			1						

Tx. Spurious NVNT 1-DH5 2402MHz



Tx. Spurious NVNT 1-DH5 2441MHz

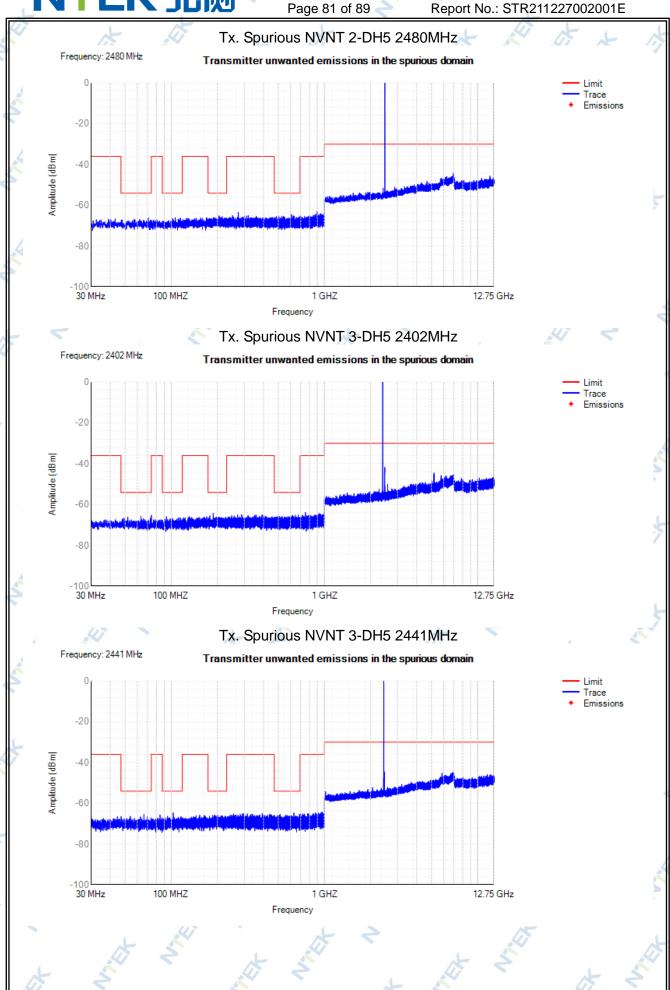


Limit Trace Emissions



Report No.: STR211227002001E Tx. Spurious NVNT 1-DH5 2480MHz Frequency: 2480 MHz Transmitter unwanted emissions in the spurious domain Limit Trace Emissions Amplitude (dBm) -60 100 MHZ 1 GHZ 12.75 GHz Frequency Tx. Spurious NVNT 2-DH5 2402MHz Frequency: 2402 MHz Transmitter unwanted emissions in the spurious domain Limit Trace Emissions Amplitude (dBm) -60 -80 100 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Tx. Spurious NVNT 2-DH5 2441MHz Frequency: 2441 MHz Transmitter unwanted emissions in the spurious domain Limit Trace Emissions -20 Amplitude (dBm) -40 -60 -80 100 30 MHz 12.75 GHz 100 MHZ 1 GHZ Frequency







NTEK 北测[®] Page 82 of 89 Report No.: STR211227002001E Tx. Spurious NVNT 3-DH5 2480MHz Frequency: 2480 MHz Transmitter unwanted emissions in the spurious domain Limit Trace Emissions Amplitude (dBm) -60 -100 L 30 MHz 100 MHZ 12.75 GHz Frequency



NVNT

NVNT

NVNT

3-DH5

3-DH5

3-DH5

2441

2480

2480

Report No.: STR211227002001E

11.9 RECE	IVER S	PURIOUS I	EMISSIONS	L	A S	5 14	4	14
Condition	Mode	Frequency (MHz)	Range	Spur Freq (MHz)	Spur Level Peak(dBm)	Spur Level RMS(dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	30 MHz -1000 MHz	969.25	-74.01	NA	-57	Pass
NVNT	1-DH5	2402	1000 MHz -12750 MHz	2472.81198144918	-51.19	-56.08	-47	Pass
NVNT	1-DH5	2441	30 MHz -1000 MHz	955.5	-74.13	NA	-57	Pass
NVNT	1-DH5	2441	1000 MHz -12750 MHz	2471	-53.35	NA	-47	Pass
NVNT	1-DH5	2480	30 MHz -1000 MHz	437.5	-73.79	NA	-57	Pass
NVNT	1-DH5	2480	1000 MHz -12750 MHz	6998	-54.84	NA 🦽	-47	Pass
NVNT	2-DH5	2402	30 MHz -1000 MHz	961.55	-72.6	NA	-57	Pass
NVNT	2-DH5	2402	1000 MHz -12750 MHz	2468.5	-54.69	NA	-47	Pass
NVNT	2-DH5	2441	30 MHz -1000 MHz	965.6	-73.45	NA	-57	Pass
NVNT	2-DH5	2441	1000 MHz -12750 MHz	6877	-54.37	NA	-47	Pass
NVNT	2-DH5	2480	30 MHz -1000 MHz	943.9	-73.26	NA	-57	Pass
NVNT	2-DH5	2480	1000 MHz -12750 MHz	2469.5	-50.85	-59.24	-47	Pass
NVNT	3-DH5	2402	30 MHz -1000 MHz	966.75	-73.22	NA	-57	Pass
NVNT	3-DH5	2402	1000 MHz -12750 MHz	6836	-55.06	NA	-47	Pass
NVNT	3-DH5	2441	30 MHz -1000 MHz	917	-73.72	NA	-57	Pass

Rx. Spurious NVNT 1-DH5 2402MHz

6716

855.85

6731

-55.06

-74.19

-55.11

NA

NA

NA

-47

-57

-47

Pass

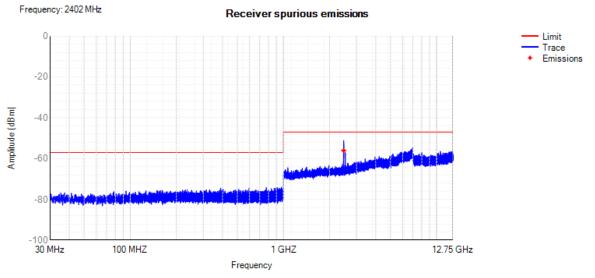
Pass

Pass

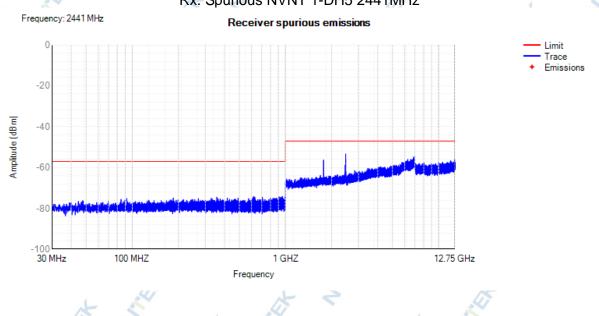
1000 MHz -12750 MHz

30 MHz -1000 MHz

1000 MHz -12750 MHz



Rx. Spurious NVNT 1-DH5 2441MHz





Page 84 of 89 Report No.: STR211227002001E Rx. Spurious NVNT 1-DH5 2480MHz Frequency: 2480 MHz Receiver spurious emissions Limit Trace Emissions Amplitude (dBm) -60 100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Rx. Spurious NVNT 2-DH5 2402MHz Frequency: 2402 MHz Receiver spurious emissions Limit Trace Emissions Amplitude (dBm) -40 -60 100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Rx. Spurious NVNT 2-DH5 2441MHz Frequency: 2441 MHz Receiver spurious emissions Limit Trace Emissions -20 Amplitude (dBm) -40 -60 100 30 MHz 100 MHZ 12.75 GHz 1 GHZ Frequency



Report No.: STR211227002001E Rx. Spurious NVNT 2-DH5 2480MHz Frequency: 2480 MHz Receiver spurious emissions Limit Trace Emissions Amplitude (dBm) -60 100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Rx. Spurious NVNT 3-DH5 2402MHz Frequency: 2402 MHz Receiver spurious emissions Limit Trace Emissions Amplitude (dBm) -40 -60 100 L 30 MHz 100 MHZ 1 GHZ 12.75 GHz Frequency Rx. Spurious NVNT 3-DH5 2441MHz Frequency: 2441 MHz Receiver spurious emissions Limit Trace Emissions -20 Amplitude (dBm) -40 -60 100 30 MHz 100 MHZ 12.75 GHz 1 GHZ Frequency



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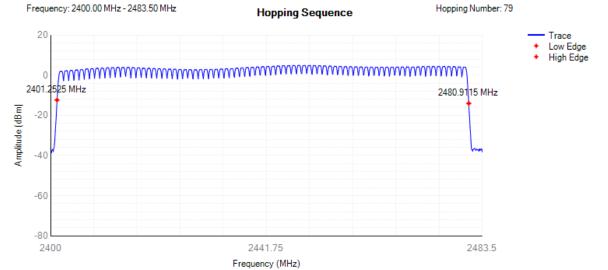
Report No.: STR211227002001E Rx. Spurious NVNT 3-DH5 2480MHz Frequency: 2480 MHz Receiver spurious emissions Limit Trace Emissions Amplitude (dBm) -60 100 MHZ Frequency





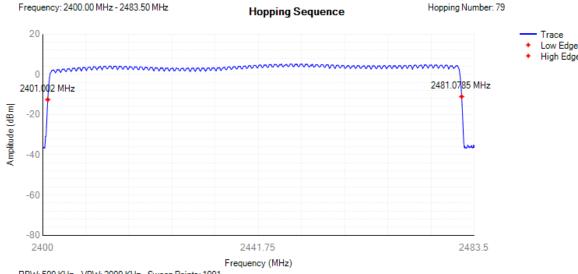
11.10 HOPPI	NG SEQU	ENCE		47	A 2 14 1	7 10
Condition	Mode	Hopping	Limit	Band Allocation	Limit Band Allocation	Verdict
47		Number		(%)	(%)	
NVNT	1-DH5	79	15	95.4	70	Pass
NVNT	2-DH5	79	15	95.9	70	Pass
NVNT	3-DH5	79	15	95.9	70	Pass
(i) E				05 3	7 1	2

Hopping Seq. NVNT 1-DH5 2441MHz



RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 1001

Hopping Seq. NVNT 2-DH5 2441MHz



RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 1001

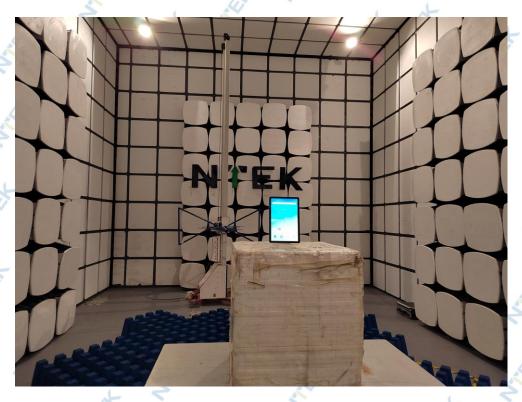


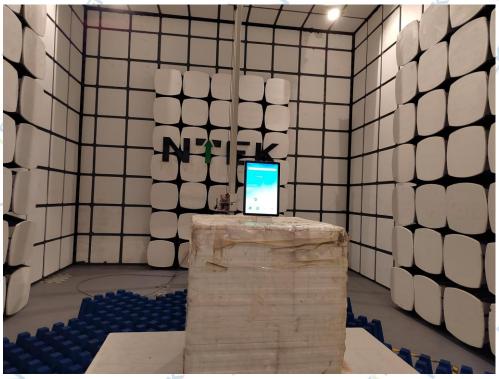
Page 88 of 89 Report No.: STR211227002001E Hopping Seq. NVNT 3-DH5 2441MHz Frequency: 2400.00 MHz - 2483.50 MHz Hopping Number: 79 **Hopping Sequence** Trace Low Edge High Edge 2481.0785 MHz 2401.002 MHz Amplitude (dBm) -20 -40 2400 2483.5 Frequency (MHz) RBW: 500 KHz, VBW: 2000 KHz, Sweep Points: 1001



12. EUT TEST PHOTO

SPURIOUS EMISSIONS MEASUREMENT PHOTOS





END OF REPORT