

TEST REPORT

Report No.:	BCTC2203084212-1E					
Applicant:	Emdoor Information Co.,Ltd.					
Product Name:	Rugged Tablet					
Model/Type reference:	EM-I86H					
Tested Date:	2022-03-31 to 2022-04-11					
Issued Date:	2022-04-11					
She	nzhen BCFCFesting Co., Ltd.					
No.: BCTC/RF-EMC-007	Page: 1 of 80 Edition: A.4					



FCC ID:2A37Q-EM-I86H

Product Name:	Rugged Tablet
Trademark:	Emdoor
Model/Type Reference:	EM-186H EM-186HH,EM-186,W86H,W86,W86HH
Prepared For:	Emdoor Information Co.,Ltd.
Address:	3/F, Bldg 5th, Wonderful Life Wisdom Valley TechnoPark, No.83 Dabao Rd, Xin'an Sub-district, Bao'an District, Shenzhen518101, Guangdong Province, China
Manufacturer:	Emdoor Information Co.,Ltd.
Address:	3/F, Bldg 5th, Wonderful Life Wisdom Valley TechnoPark, No.83 Dabao Rd, Xin'an Sub-district, Bao'an District, Shenzhen518101, Guangdong Province, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2022-03-31
Sample tested Date:	2022-03-31 to 2022-04-11
Issue Date:	2022-04-11
Report No.:	BCTC2203084212-1E
Test Standards:	FCC Part15.247 ANSI C63.10-2013
Test Results:	PASS
Remark:	This is Bluetooth Classic radio test report.

Tested by:

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.



Table Of Content

Test	Report Declaration	Page
1.	Version	5
2.	Test Summary	6
3.	Measurement Uncertainty	
4.	Product Information And Test Setup	
4.1	Product Information	
4.2	Test Setup Configuration	
4.3	Support Equipment	
4.4	Channel List	
4.5	Test Mode	
4.6	Table Of Parameters Of Text Software Setting	
5.	Test Facility And Test Instrument Used	
5.1	Test Facility	
5.2	Test Instrument Used	
6.	Conducted Emissions	
6.1	Block Diagram Of Test Setup	
6.2	Limit	
6.3	Test procedure	
6.4	EUT operating Conditions	
6.5	Test Result	
7.	Radiated emissions	
7.1	Block Diagram Of Test Setup	
7.2	Limit	
7.3	Test procedure	
7.4	EUT operating Conditions	
7.5	Test Result	
8.	Radiated Band Emission Measurement And Restricted Bands Of Opera	
8.1	Block Diagram Of Test Setup	
8.2	Limit	
8.3	Test procedure	
8.4	EUT operating Conditions	
8.5	Test Result	26
9.	Spurious RF Conducted Emissions	
91	Block Diagram Of Test Setun	27
9.2	Limit Test procedure Test Result 20 dB Bandwidth Block Diagram Of Test Setup	21
9.3		27 27
9.4	Test Result	28
10.	20 dB Bandwidth	20 40
10.1	Block Diagram Of Test Setun	
10.1	Limit	
10.2	Test procedure	
10.3		
10.4	Maximum Peak Output Power	
11.1	Block Diagram Of Test Setup	
11.2		
11.2		
11.4		
11.4		



12. Hopping Channel Separation	61
12.1 Block Diagram Of Test Setup	
12.2 Limit	
12.3 Test procedure	61
12.4 Test Result	61
13. Number Of Hopping Frequency	67
13.1 Block Diagram Of Test Setup	67
13.2 Limit	
13.3 Test procedure	67
13.4 Test Result	67
14. Dwell Time	70
14.1 Block Diagram Of Test Setup	70
14.2 Limit	70
14.3 Test procedure	70
14.4 Test Result	70
15. Antenna Requirement	76
15.1 Limit	76
15.2 Test Result	76
16. EUT Photographs	77
17. EUT Test Setup Photographs	78

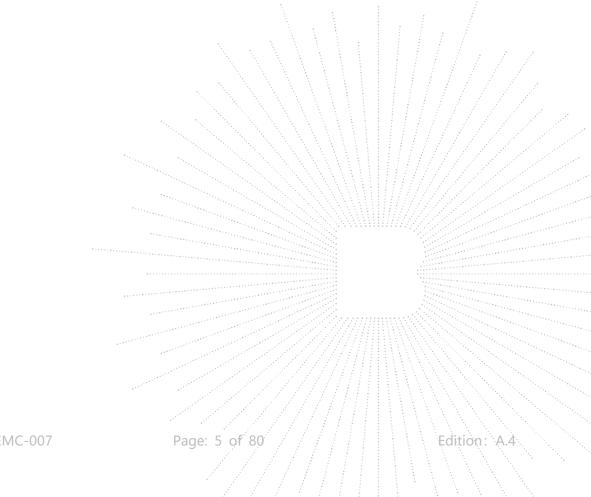
(Note: N/A Means Not Applicable)

Page: 4 of 80

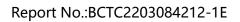


1. Version

Report No.	Issue Date	Description	Approved
BCTC2203084212-1E	2022-04-11	Original	Valid



No.: BCTC/RF-EMC-007





2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No.	Results
1	Conducted emission AC power port	§15.207	PASS
2	Conducted peak output power for FHSS	§15.247(b)(1)	PASS
3	20dB Occupied bandwidth	§15.247(a)(1)	PASS
4	Number of hoppingfrequencies	§15.247(a)(1)(iii)	PASS
5	Dwell Time	§15.247(a)(1)(iii)	PASS
6	Spurious RF conducted emissions	§15.247(d)	PASS
7	Band edge	§15.247(d)	PASS
8	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
9	Antenna Requirement	15.203	PASS

No.: BCTC/RF-EMC-007

Page: 6 of 80



3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(9KHz-30MHz)	U=3.7dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission (150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C



4. Product Information And Test Setup

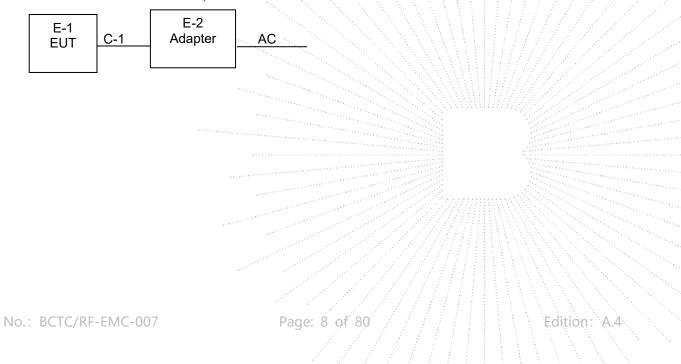
4.1 Product Information

Model/Type reference:	EM-186H EM-186HH,EM-186,W86H,W86,W86HH
Model differences:	All the model are the same circuit and RF module, except model names.
Bluetooth Version:	BT 5.0
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	Internal antenna
Antenna Gain:	2 dBi
Ratings:	AC 120V/60Hz/DC 3.7V
Adapter:	Model:AW018WR-0500300UH Inout:100-240V~50/60 0.5A Output:DC 5V 3A

4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission/ Radiated Spurious Emission





4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Rugged Tablet	Emdoor	EM-186H	EM-I86HH	EUT
E-2	Adapter	N/A	AW018WR-0500300UH	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.3M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)	СН	Frequency (MHz)
0	2402	1	2403	2	2404	3	2405
4	2406	5	2407	6	2408	7	2409
8	2410	9	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	: 23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	. <u>30</u>	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	79	



4.5 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Test Mode	Test mode	Low channel	Middle channel	High channel		
1	Transmitting(GFSK)	2402MHz	2441MHz	2480MHz		
2	Transmitting(π/ 4 DQPSK)	2402MHz	2441MHz	2480MHz		
3	Transmitting(8DPSK)	2402MHz	2441MHz	2480MHz		
4	Transmitting (Conducted emission & Radiated emission)					

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) Fully-charged battery is used during the test

4.6 Table Of Parameters Of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters

Test software Version	CMD			
Frequency	2402 MHz	2441 MHz	2480 MHz	
Parameters	DEF	DEF	DEF	



5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850 IC Registered No.: 23583

5.2 Test Instrument Used

Conducted Emissions Test					
Equipment	nent Manufacturer Model# S		Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
LISN	R&S	ENV216	101375	May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	EMC-CON 3A1	1	/
Attenuator	١	10dB DC-6GHz	1650	May 28, 2021	May 27, 2022

RF Conducted Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Metter	Keysight	E4419		May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A	$\sum_{i=1}^{n} \sum_{j=1}^{n} \prod_{i=1}^{n} \sum_{j=1}^{n} \sum_{j$	May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40	an a	May 28, 2021	May 27, 2022

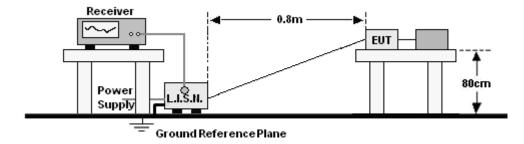


Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 28, 2021	May 27, 2022
Receiver	R&S	ESRP	101154	May 28, 2021	May 27, 2022
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 28, 2021	May 27, 2022
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 28, 2021	May 27, 2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	Jun. 01, 2021	May 31, 2022
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 02, 2021	Jun. 01, 2022
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 15, 2021	Jun. 14, 2022
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 28, 2021	May 27, 2022
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Jun. 02, 2021	Jun. 01, 2022
RF cables1 (9kHz-30MHz)	Huber+Suhna r	9kHz-30MHz	B1702988-000 8	May 28, 2021	May 27, 2022
RF cables2 (30MHz-1GHz)	Huber+Suhna r	30MHz-1GHz	1486150	May 28, 2021	May 27, 2022
RF cables3 (1GHz-40GHz)	Huber+Suhna r	1GHz-40GHz	1607106	May 28, 2021	May 27, 2022
Power Metter	Keysight	E4419	N N	May 28, 2021	May 27, 2022
Power Sensor (AV)	Keysight	E9300A		May 28, 2021	May 27, 2022
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 28, 2021	May 27, 2022
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 28, 2021	May 27, 2022
Software	Frad	EZ-EMC	FA-03A2 RE		



6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

	Limit (dBuV)		
Frequency (MHz)	Quas-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

Notes:

1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

6.3 Test procedure

Receiver Parameters		Setting	
Attenuation		10 dB	
Start Frequency		0.15 MHz	
Stop Frequency		30 MHz	
IF Bandwidth		9 kHz	

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

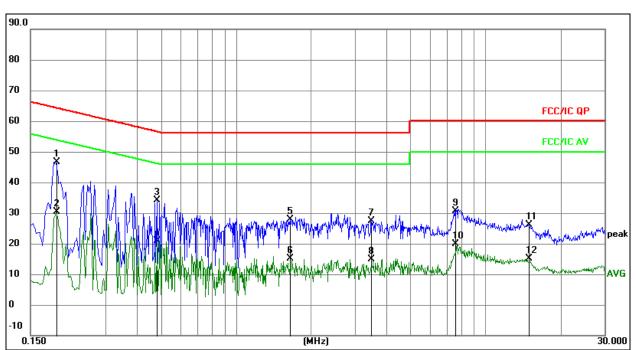
6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

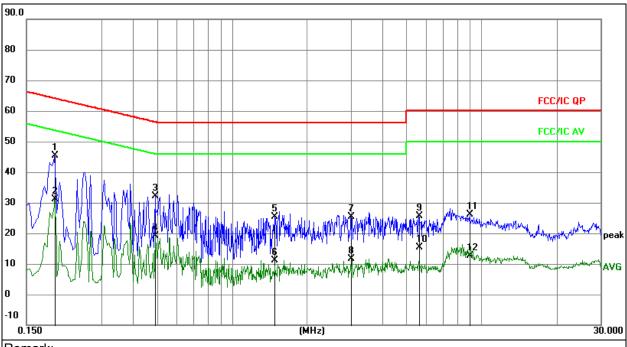
All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1905	27.09	19.60	46.69	64.01	-17.32	QP
2		0.1905	10.76	19.60	30.36	54.01	-23.65	AVG
3		0.4830	14.40	19.61	34.01	56.29	-22.28	QP
4		0.4830	1.37	19.61	20.98	46.29	-25.31	AVG
5		1.6530	8.29	19.62	27.91	56.00	-28.09	QP
6		1.6530	-4.54	19.62	15.08	46.00	-30.92	AVG
7		3.4890	7.84	19.66	27.50	56.00	-28.50	QP
8		3.4890	-4.90	19.66	14.76	46.00	-31.24	AVG
9		7.5300	10.81	19.74	30.55	60.00	-29.45	QP
10		7.5300	0.03	19.74	19.77	50.00	-30.23	AVG
11		14.9370	6.48	19.77	26.25	60.00	-33.75	QP
12		14.9370	-4.57	19.77	15.20	50.00	-34.80	AVG

No.: BCTC/RF-EMC-007



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 4	Test Voltage :	AC 120V/60Hz



Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.
 Measurement = Reading Level + Correct Factor
 Over = Measurement - Limit

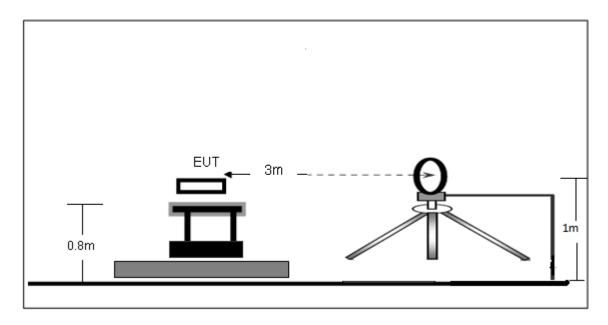
-								
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	,
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1949	25.80	19.60	45.40	63.83	-18.43	QP
2		0.1949	11.63	19.60	31.23	53.83	-22.60	AVG
3		0.4920	12.41	19.61	32.02	56.13	-24.11	QP
4		0.4920	-0.57	19.61	19.04	46.13	-27.09	AVG
5		1.4819	5.80	19.62	25.42	56.00	-30.58	QP
6		1.4819	-8.48	19.62	11.14	46.00	-34.86	AVG
7		2.9940	5.84	19.65	25.49	56.00	-30.51	QP
8		2.9940	-8.03	19.65	11.62	46.00	-34.38	AVG
9		5.6040	5.88	19.71	25.59	60.00	-34.41	QP
10		5.6040	-4.32	19.71	15.39	50.00	-34.61	AVG
11		9.0014	6.31	19.77	26.08	60.00	-33.92	QP
12		9.0014	-7.08	19.77	12.69	50.00	-37.31	AVG



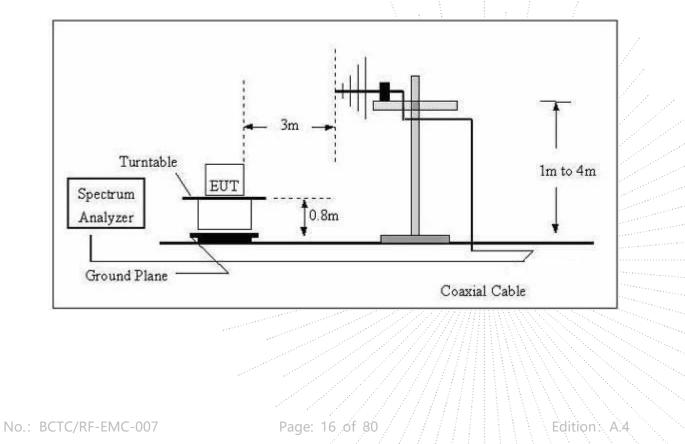
7. Radiated emissions

7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz

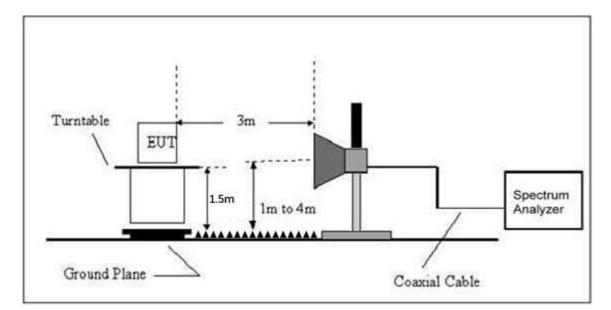


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance		
(MHz)	uV/m	(m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log ^{(2400/F(kHz))} + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log ^{(24000/F(kHz))} + 40	
1.705 ~ 30	30	30	100 * 30	20log ⁽³⁰⁾ + 40	
30 ~ 88	100	3	100	20log ⁽¹⁰⁰⁾	
88 ~ 216	150	3	150	20log ⁽¹⁵⁰⁾	
216 ~ 960	200	3	200	20log ⁽²⁰⁰⁾	
Above 960	500	3	500	20log ⁽⁵⁰⁰⁾	

Limits Of Radiated Emission Measurement (Above 1000MHz)

	Limit (dBuV/m)	(at 3M)
Frequency (MHz)	Peak	Average
Above 1000	74	54

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).



Frequency Range Of Radiated Measurement

(a) For an intentional radiator the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in this paragraph:

(1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

(2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

(3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(4) If the intentional radiator operates at or above 95 GHz: To the third harmonic of the highest fundamental frequency or to 750 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.

(5) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a) (1)through (4) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this section, whichever is the higher frequency range of investigation.

7.3 Test procedure

Receiver Parameter	Setting				
Attenuation	Auto				
9kHz~150kHz	RBW 200Hz for QP				
150kHz~30MHz	RBW 9kHz for QP				
30MHz~1000MHz	RBW 120kHz for QP				

Spectrum Parameter	Setting
1-25GHz	RBW 1 MHz /VBW 1 MHz for Peak, RBW 1 MHz / VBW 10Hz for Average

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.



d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middlest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

7.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



7.5 Test Result

Below 30MHz

Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	101KPa	Tost Voltago :	AC120V/60Hz	
Test Mode:	Mode 4	Test Voltage :		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the

permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

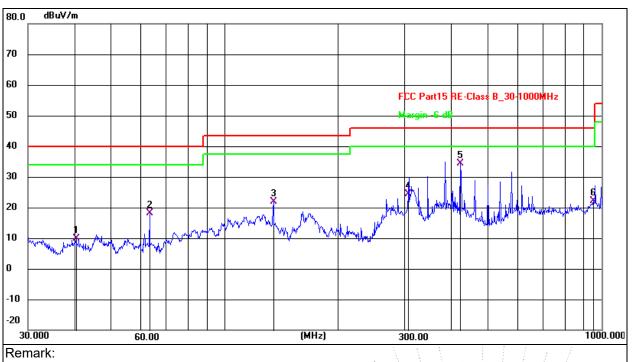
No.: BCTC/RF-EMC-007

Page: 20 of 80



Between 30MHz - 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz



1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

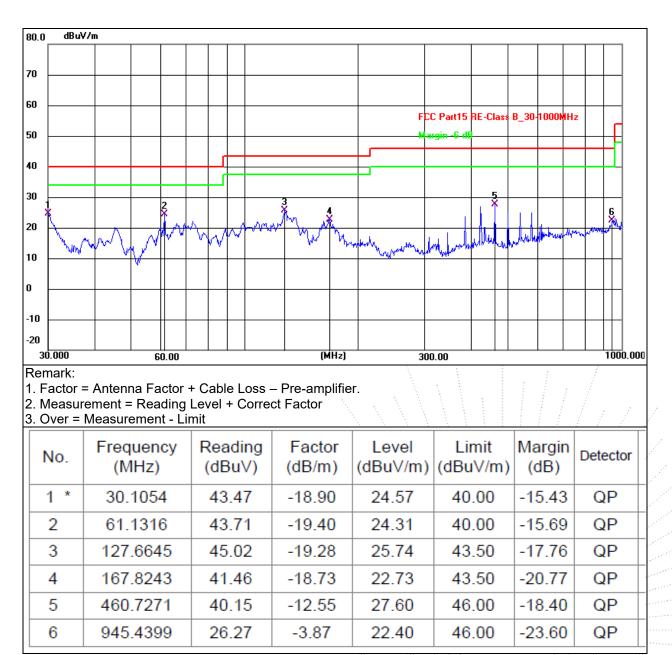
2. Measurement = Reading Level + Correct Factor

3. Over = Measurement - Limit

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.2757	27.95	-18.01	9.94	40.00	-30.06	QP
2	63.0916	37.88	-19.76	18.12	40.00	-21.88	QP
3	134.5592	40.49	-18.69	21.80	43.50	-21.70	QP
4	306.7537	41.22	-16.92	24.30	46.00	-21.70	QP
5 *	422.0577	47.96	-13.65	34.31	46.00	-11.69	QP
6	952.0937	25.75	-3.70	22.05	46.00	-23.95	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	AC 120V/60Hz





Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector			
(H/V)	(MHz)	(MHz) (dBuV/m)		(dB) (dBuV/m)		(dB)	Туре			
	GFSK Low channel									
V	4804.00	53.94	-0.43	53.51	74.00	-20.49	PK			
V	4804.00	44.20	-0.43	43.77	54.00	-10.23	AV			
V	7206.00	46.43	8.31	54.74	74.00	-19.26	PK			
V	7206.00	35.67	8.31	43.98	54.00	-10.02	AV			
Н	4804.00	51.41	-0.43	50.98	74.00	-23.02	PK			
Н	4804.00	40.64	-0.43	40.21	54.00	-13.79	AV			
Н	7206.00	44.95	8.31	53.26	74.00	-20.74	PK			
Н	7206.00	37.02	8.31	45.33	54.00	-8.67	AV			
		G	FSK Middle o	hannel						
V	4882.00	50.92	-0.38	50.54	74.00	-23.46	PK			
V	4882.00	44.69	-0.38	44.31	54.00	-9.69	AV			
V	7323.00	40.16	8.83	48.99	74.00	-25.01	PK			
V	7323.00	30.61	8.83	39.44	54.00	-14.56	AV			
Н	4882.00	48.11	-0.38	47.73	74.00	-26.27	PK			
Н	4882.00	38.54	-0.38	38.16	54.00	-15.84	AV			
Н	7323.00	37.54	8.83	46.37	74.00	-27.63	PK			
Н	7323.00	29.11	8.83	37.94	54.00	-16.06	AV			
			GFSK High ch	nannel						
V	4960.00	53.32	-0.32	53.00	74.00	-21.00	PK			
V	4960.00	43.70	-0.32	43.38	54.00	-10.62	AV			
V	7440.00	46.90	9.35	56.25	74.00	-17.75	PK			
V	7440.00	36.28	9.35	45.63	54.00	-8.37	AV			
Н	4960.00	51.32	-0.32	51.00	74.00	-23.00	PK			
Н	4960.00	41.17	-0.32	40.85	54.00	-13.15	AV			
Н	7440.00	44.65	9.35	54.00	74.00	-20.00	PK			
Н	7440.00	35.85	9.35	45.20	54.00	-8.80	AV			

Between 1GHz – 25GHz

Remark:

1.Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2.If peak below the average limit, the average emission was no test.

3. In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

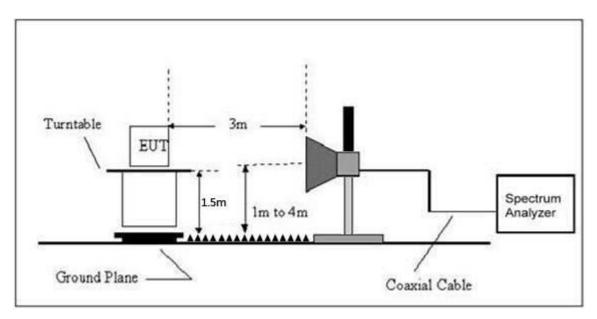
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



8. Radiated Band Emission Measurement And Restricted Bands Of Operation

8.1 Block Diagram Of Test Setup

Radiated Emission Test-Up Frequency Above 1GHz



8.2 Limit

FCC Part15 C Section 15.209 and 15.205

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			



Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)		
Frequency (MHz)	Peak Av		
Above 1000	74	54	

Notes:

(1)The limit for radiated test was performed according to FCC PART 15C.

(2)The tighter limit applies at the band edges.

(3)Emission level (dBuV/m)=20log Emission level (uV/m).

8.3 Test procedure

Receiver Parameter	Setting
Attenuation	Auto
Start Frequency	2300MHz
Stop Frequency	2520
RB / VB (Emission In Restricted Band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Above 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c.The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d.For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e.The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the Highest channel.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

8.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



8.5 Test Result

Test mode	Polar (H/V)	Frequency (MHz)	Reading Correct Level Facto (dBuV/m) (dB)		Measure- ment (dBuV/m)	Limits (dBuV/m)		Result
	()	()	(abuv/m) (ab	(dB)	РК	PK	AV	
	Low Channel 2402MHz							
	Н	2390.00	53.29	-6.70	46.59	74.00	54.00	PASS
	Н	2400.00	56.99	-6.71	50.28	74.00	54.00	PASS
	V	2390.00	53.42	-6.70	46.72	74.00	54.00	PASS
GFSK	V	2400.00	53.32	-6.71	46.61	74.00	54.00	PASS
Gran			High	Channel 2	480MHz			
	Н	2483.50	52.28	-6.79	45.49	74.00	54.00	PASS
	Н	2500.00	48.75	-6.81	41.94	74.00	54.00	PASS
	V	2483.50	52.31	-6.79	45.52	74.00	54.00	PASS
	V	2500.00	47.87	-6.81	41.06	74.00	54.00	PASS
	Low Channel 2402MHz							
	Н	2390.00	52.08	-6.70	45.38	74.00	54.00	PASS
	Н	2400.00	56.70	-6.71	49.99	74.00	54.00	PASS
	V	2390.00	52.40	-6.70	45.70	74.00	54.00	PASS
π/4DQPSK	V	2400.00	53.77	-6.71	47.06	74.00	54.00	PASS
II/4DQF SK	High Channel 2480MHz							
	Н	2483.50	51.11	-6.79	44.32	74.00	54.00	PASS
	Н	2500.00	48.65	-6.81	41.84	74.00	54.00	PASS
	V	2483.50	51.32	-6.79	44.53	74.00	54.00	PASS
	V	2500.00	46.73	-6.81	39.92	74.00	54.00	PASS
			Low	Channel 2	402MHz			
	Н	2390.00	52.99	-6.70	46.29	74.00	54.00	PASS
	Н	2400.00	57.64	-6.71	50.93	74.00	54.00	PASS
	V	2390.00	52.66	6.70 ·	45.96	74.00	54.00	PASS
8DPSK	V	2400.00	52.84	-6.71	46.13	74.00	54.00	PASS
OUFSK			High	Channel 2	480MHz			
	Н	2483.50	53.47	-6.79	46.68	74.00	54.00	PASS
	Н	2500.00	49.57	-6.81	42.76	74.00	54.00	PASS
	V	2483.50	50.99	-6.79	44.20	74.00	54.00	PASS
	V	2500.00	46.65	-6.81	39.84	74.00	54.00	PASS

Remark:

1. Emission Level = Meter Reading + Factor, Factor = Antenna Factor + Cable Loss – Pre-amplifier. Over= Emission Level - Limit

2. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

3 In restricted bands of operation, The spurious emissions below the permissible value more than 20dB

4. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



9. Spurious RF Conducted Emissions

9.1 Block Diagram Of Test Setup



9.2 Limit

Regulation 15.247 (d),In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.205(c))

9.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

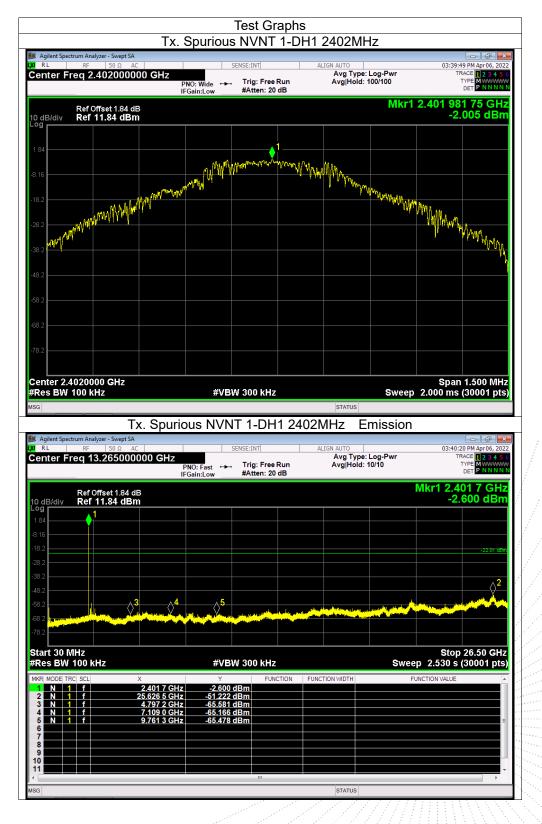
2. Set the spectrum analyzer: Below 30MHz: RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold Above 30MHz: RBW = 100KHz, VBW = 300KHz, Sweep = auto Detector function = peak, Trace = max hold

No.: BCTC/RF-EMC-007

Page: 27 of §

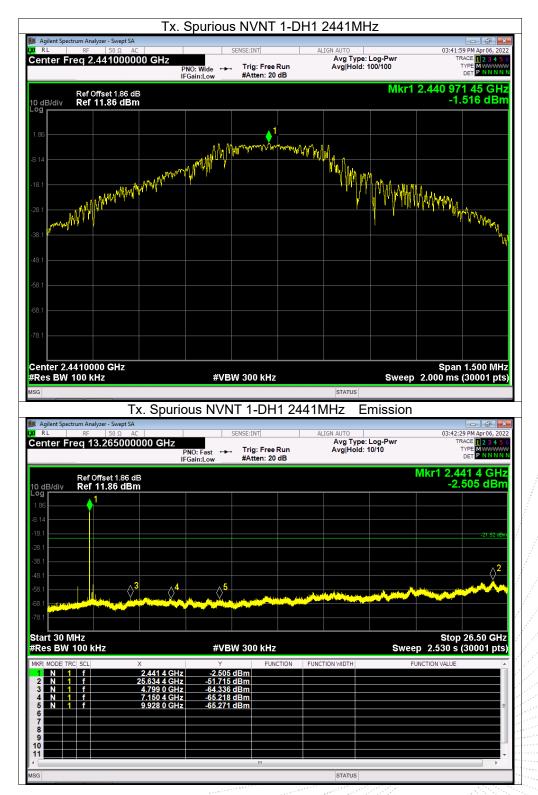


9.4 Test Result

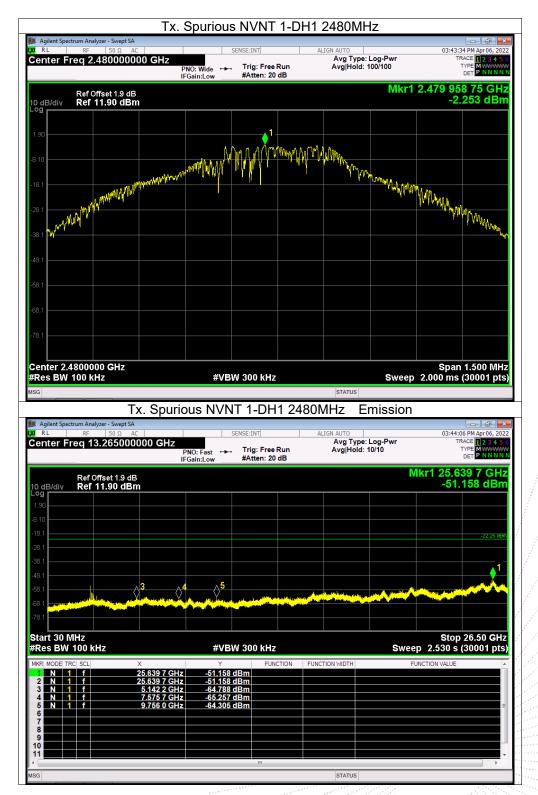


No.: BCTC/RF-EMC-007









No.: BCTC/RF-EMC-007

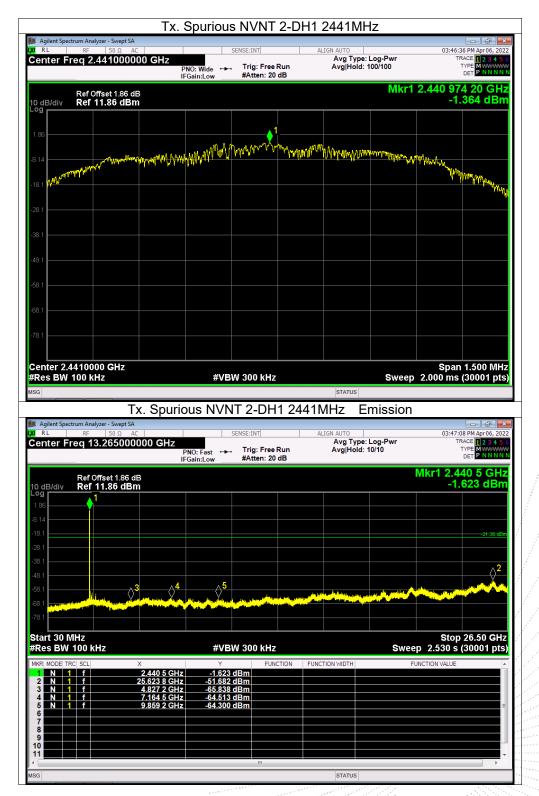


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Page: 31 of 80

No.: BCTC/RF-EMC-007







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Agilent Spectrum Analyzer - Swept R L RF 50 Ω	sa AC 00000 GHz P	ous NVNT	2-DH1 2	2480MHz	Emission pe: Log-Pwr	03:49:59 PM Apr 06, 20 TRACE
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Edition: A.4

No.: BCTC/RF-EMC-007



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Agilent Spectrum Analyzer - Swept R L RF 50 Ω	AC				AHZE	mission	03:54	:43 PM Apr 06, 20
Agilent Spectrum Analyzer - Swept R L RF 50 Ω	SA AC 00000 GHz P		T 3-DH	AL	IHZ E	mission	03:54	:43 PM Apr 06, 20
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Agilent Spectrum Analyzer - Swept RL RF 50 Ω enter Freq 13.26500	SA AC D00000 GHz F F S dB Bm A A A A A A A A A A A A A	× S S S S S S S S S S S S S	T 3-DH ENSE:INT Trig: Free F #Atten: 20 V 300 kHz U 300 kHz EBm BBm	Run dB	AHZ E	mission Log-Pwr 10/10	03:54 Mkr1 2.4 -5 -5 	43 PM Apr 06, 20 RACE 12, 34 S TYPE 12, 34 S DET 21, 30 G 41 14 GH .380 dBr 21, 30 G 21, 30 G 30 G
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Agilent Spectrum Analyzer - Swept RL RF 50 Ω		SENSE	:INT		: Log-Pwr	03:55:54 PM Apr 06, 20 TRACE 234
enter Freq 2.48000	PN		rig: Free Run Atten: 20 dB	Avg Hold:		TYPE MWWWW DET P N N N
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Agilent Spectrum Analyzer - Swept	Tx. Spurio	us NVNT :	3-DH1 24	80MHz E	mission	- ¢
RL RF 50 Ω enter Freg 13.2650	AC	SENSE	:INT	ALIGN AUTO		03:56:25 PM Apr 06, 2
011001 1100 1012000		-		Avg Type	: Log-Pwr	TRACE 1 2 3 4
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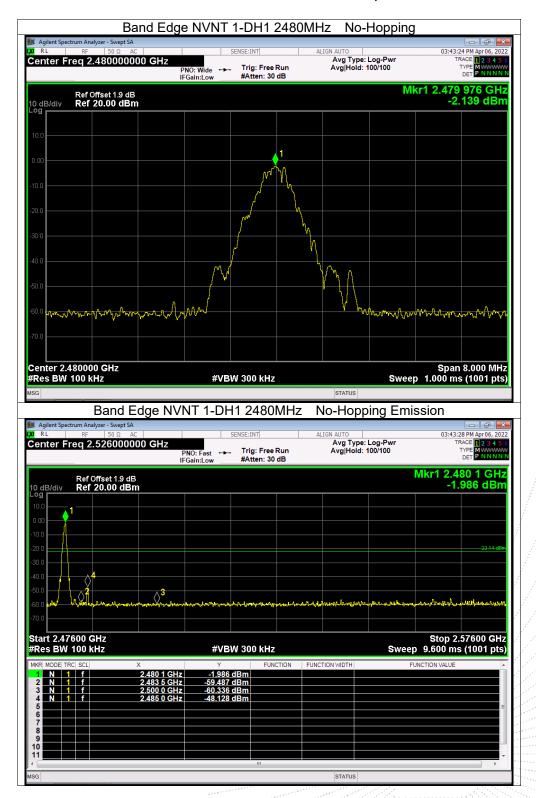


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Band I Agilent Spectrum Analyzer - Swept Sc RL RF 50 Ω	A AC 000 GHz	SE PNO: Fast ↔		AL	IO-HOP	: Log-Pwr		39:43 PM Apr 06, 2 TRACE 1 2 3 4 TYPE MWWW DET P NNN
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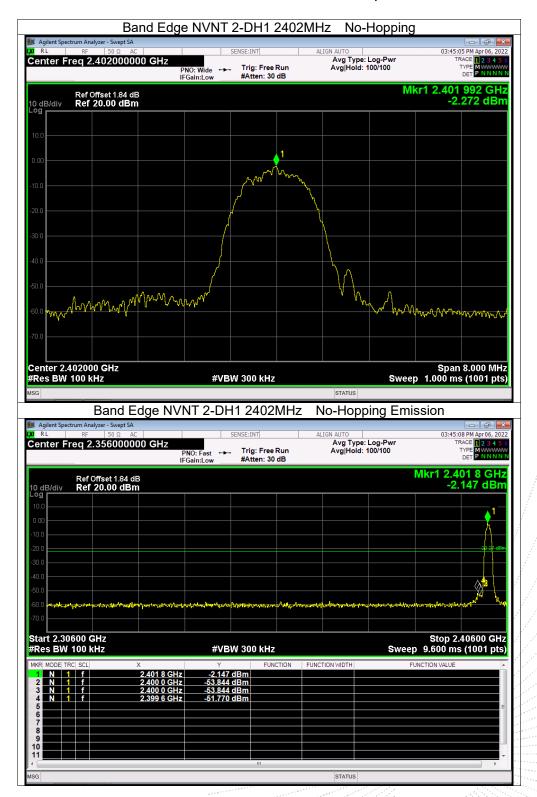
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Page: 37 of 80

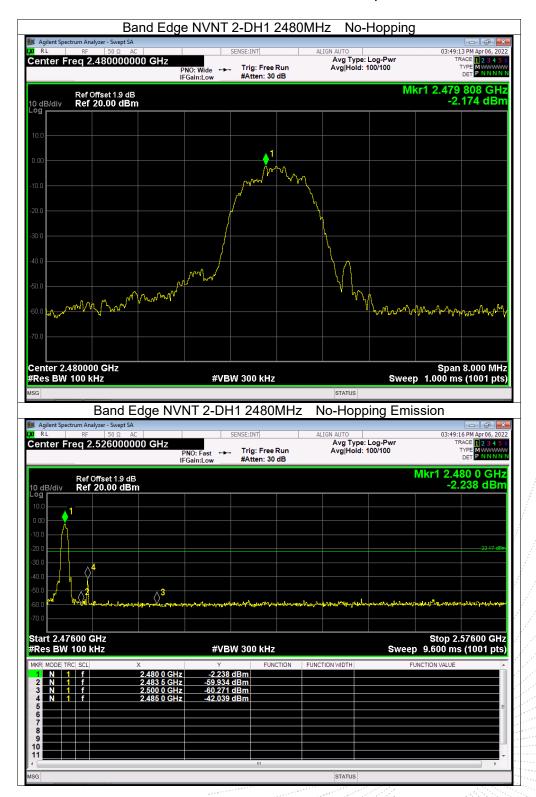








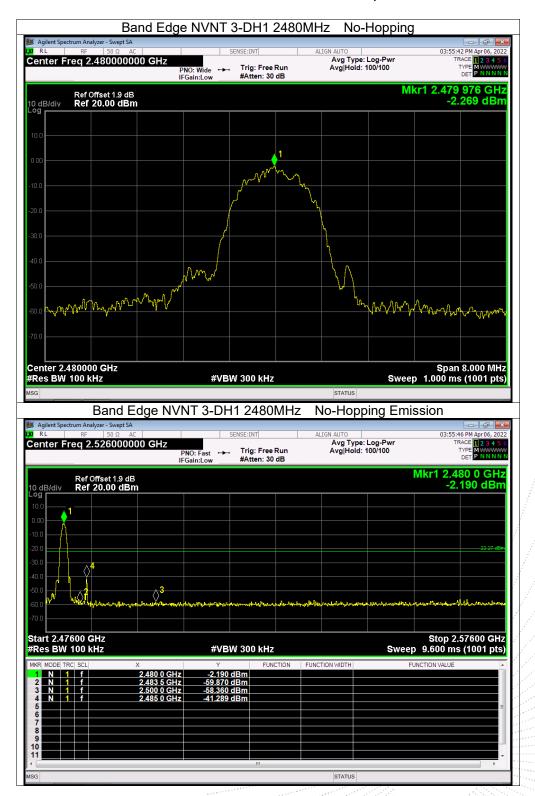




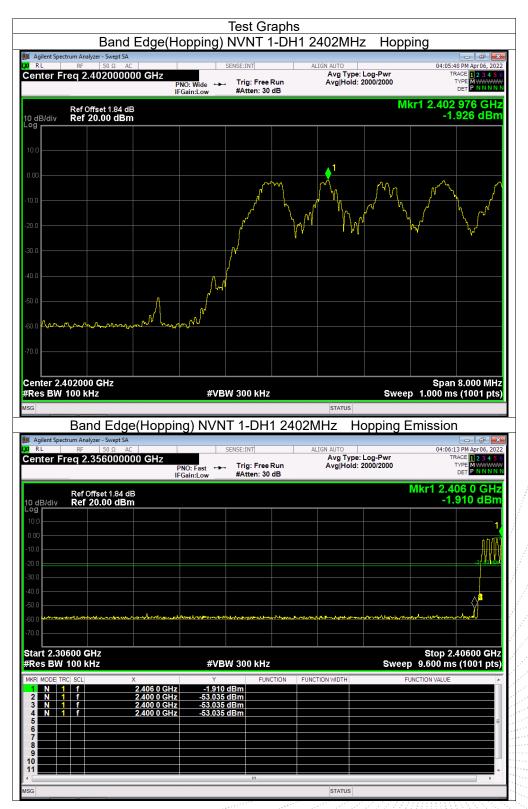


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Agilent Spe RL RL	Crum Analyzer - 5 RF S req 2.3566 Ref Offset Ref 20.0 0 0 0 0 0 0 0 0 0 0 0 0 0	Swept SA 50 Ω AC 5000000 t 1.84 dB 00 dBm	0 GHz	ng) NV	NT 2-L SENSE:INT → Trig: #Atter #Atter BW 300 30 dBm 78 dBm	DH1 24	02MHz	ype: Log-Pwr old: 2000/2000	Mkr1	sion H:12:27 PM Apr 06, 202 TRACE 12 34 5 TYPE MARCE 12 34 5 TYPE MARC



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Band Edd	SA AC 0000 GHz IF IF	SEN: PNO: Fast ↔→	SE:INT	480MHz Hc	og-Pwr 000/2000	04:17:17 PM Apro6, 2022 TRACE 12 3 4 5 6 Type NNNNN pet NNNNN (r1 2.476 1 GHz -1.908 dBm 22:18 /Bm
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RL		10		auge started					😑 💣 📕
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A siles to a		ge(Hoppir	ng) NVNT	- 3-DH	1 24021		opping I	Emissio	
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adB/div og og old	ctrum Analyzer - Swept RF 50 Ω ireq 2.356000 Ref Offset 1.8- Ref 20.00 d	AC 0000 GHz	SE PNO: Fast →- FGain:Low	NSE:INT Trig: Free I #Atten: 30	Run	AHZ H	Log-Pwr 2000/2000	04:11 Mkr1 2 -1	2:29 PM Apr 06, 20 ST PACE [] 23 PM Apr 06, 20 ST PACE [] 23 PM Apr 06, 20 ST PM Apr 06, 20
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RL enter F 9 00 10 10 10 10 11 12 13 10 10	ctrum Analyzer - Swept RF 50Ω ireq 2.3556000 Ref Offset 1.8/ Ref 20.00 d 	AC 0000 GHz 1 4 dB 8 8 1 2 2.403 8 GHz 1 2.400 0 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PNO: Fast → FGain:Low #VBW #VBW	INSE:INT Trig: Free I #Atten: 30 #Atten: 30 // 300 kHz FUNC Bm Bm Bm	Run dB	LIGN AUTO	Log-Pwr 2000/2000	04:11 Mkr1 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	2.406000 GH 15 (1001 pt s
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RL enter F 0 dB/div 0 0 </td <td>ctrum Analyzer - Swept RF 50Ω ireq 2.3556000 Ref Offset 1.8/ Ref 20.00 d </td> <td>AC 0000 GHz 1 4 dB 8 8 1 2 2.403 8 GHz 1 2.400 0 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>PNO: Fast → FGain:Low #VBW #VBW</td> <td>INSE:INT Trig: Free I #Atten: 30 #Atten: 30 // 300 kHz FUNC Bm Bm Bm</td> <td>Run dB</td> <td>LIGN AUTO</td> <td>Log-Pwr 2000/2000</td> <td>04:11 Mkr1 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1</td> <td>2:29 PM Apr 06, 20 PET PM Apr 0</td>	ctrum Analyzer - Swept RF 50Ω ireq 2.3556000 Ref Offset 1.8/ Ref 20.00 d 	AC 0000 GHz 1 4 dB 8 8 1 2 2.403 8 GHz 1 2.400 0 GHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PNO: Fast → FGain:Low #VBW #VBW	INSE:INT Trig: Free I #Atten: 30 #Atten: 30 // 300 kHz FUNC Bm Bm Bm	Run dB	LIGN AUTO	Log-Pwr 2000/2000	04:11 Mkr1 2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	2:29 PM Apr 06, 20 PET PM Apr 0







10. 20 dB Bandwidth

10.1 Block Diagram Of Test Setup



10.2 Limit

N/A

10.3 Test procedure

- 1. Set RBW = 30kHz.
- 2. Set the video bandwidth (VBW) \ge 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

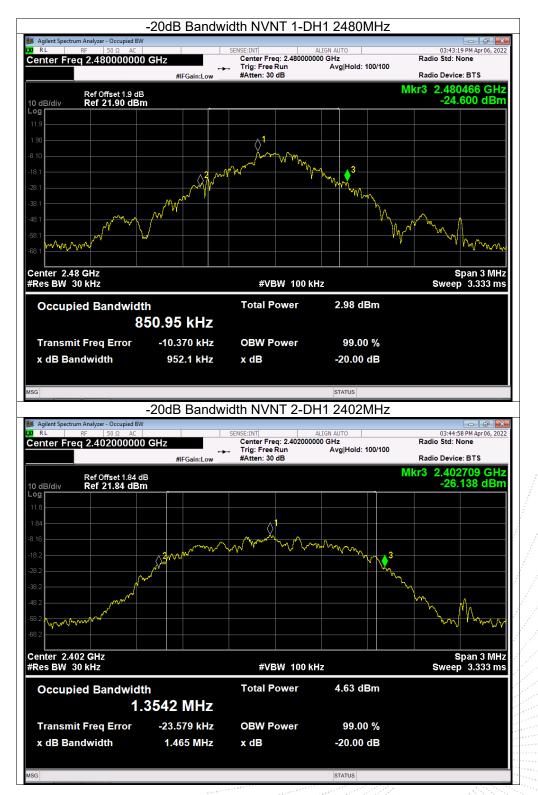
10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.851	Pass
NVNT	1-DH1	2441	0.841	Pass
NVNT	1-DH1	2480	0.952	Pass
NVNT	2-DH1	2402	1.465	Pass
NVNT	2-DH1	2441	1.455	Pass
NVNT	2-DH1	2480	1.468	Pass
NVNT	3-DH1	2402	1.451	Pass
NVNT	3-DH1	2441	1.436	Pass
NVNT	3-DH1	2480	1.463	Pass





















No.: BCTC/RF-EMC-007

Page: 54 of 80



11. Maximum Peak Output Power

11.1 Block Diagram Of Test Setup



11.2 Limit

		FCC Part15 (15.247) ,	Subpart C	
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS

11.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

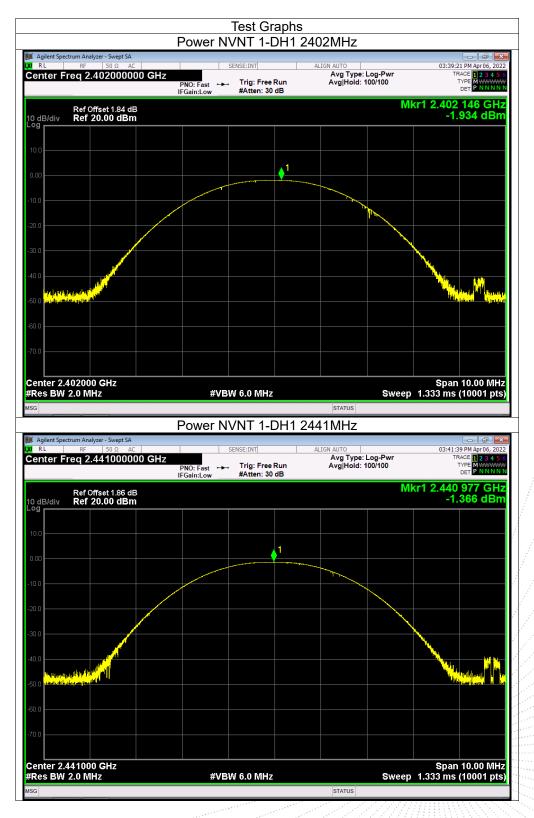
2. Set the spectrum analyzer: RBW = 3MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak.

3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

11.4 Test Result

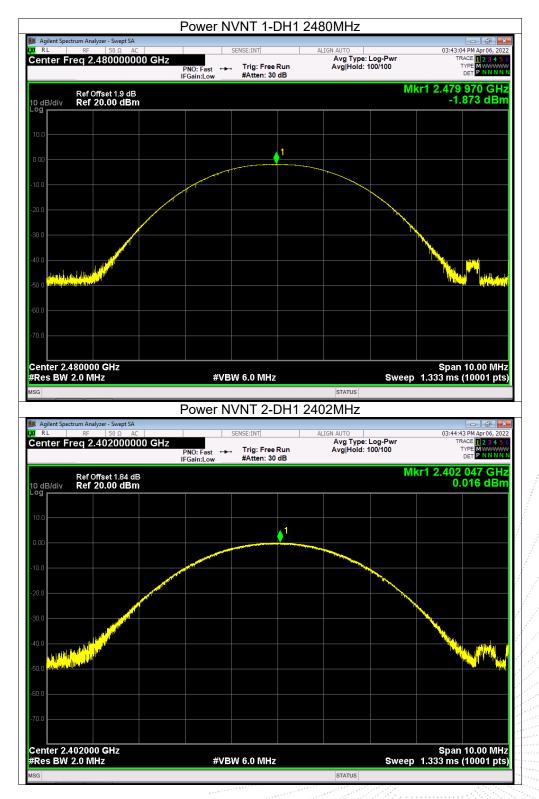
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	-1.93	21	Pass
NVNT	1-DH1	2441	-1.37	21	Pass
NVNT	1-DH1	2480	-1.87	21	Pass
NVNT	2-DH1	2402	0.02	21	Pass
NVNT	2-DH1	2441	0.63	21	Pass
NVNT	2-DH1	2480	0.23	21	Pass
NVNT	3-DH1	2402	0.63	21	Pass
NVNT	3-DH1	2441	0.89	21	Pass
NVNT	3-DH1	2480	0.17	21	Pass



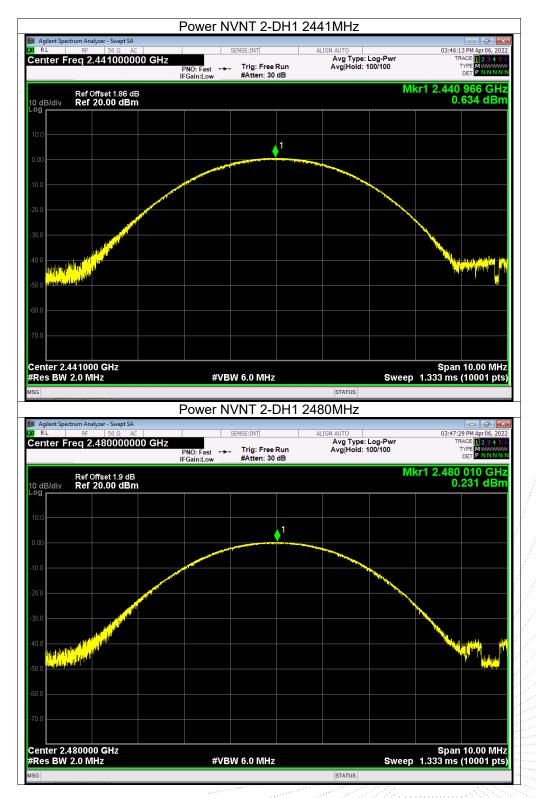


No.: BCTC/RF-EMC-007

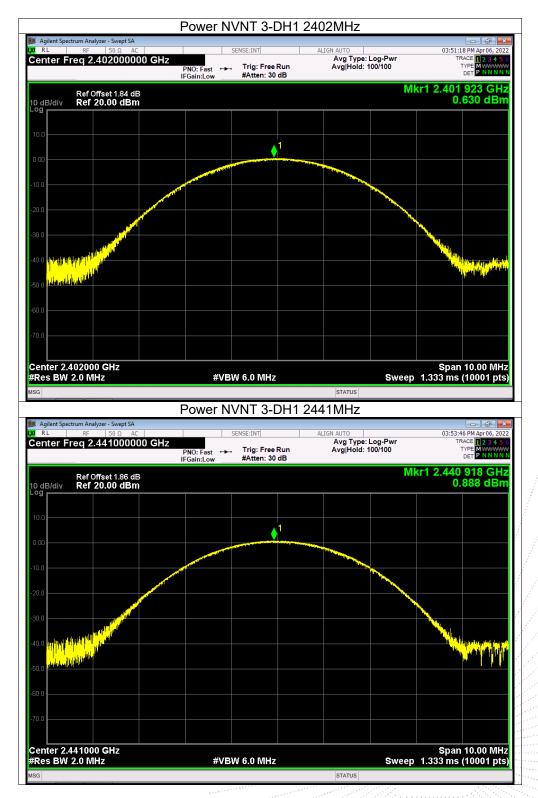




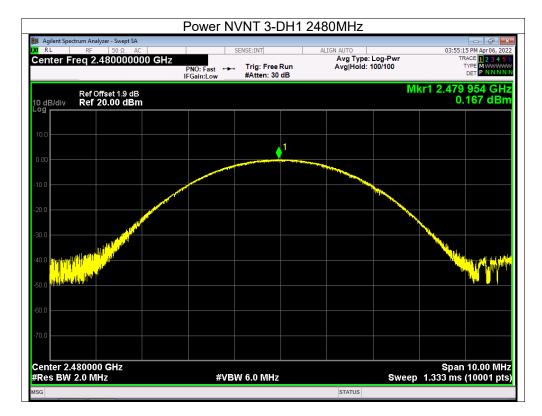












Page: 60 of 80



12. Hopping Channel Separation

12.1 Block Diagram Of Test Setup



12.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

12.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	2401.864	2402.886	1.022	0.851	Pass
NVNT	1-DH1	2440.958	2442.094	1.136	0.841	Pass
NVNT	1-DH1	2478.956	2480.086	1.130	0.952	Pass
NVNT	2-DH1	2401.948	2402.98	1.032	0.977	Pass
NVNT	2-DH1	2440.958	2441.958	1.000	0.970	Pass
NVNT	2-DH1	2478.952	2479.96	1.008	0.979	Pass
NVNT	3-DH1	2402.146	2403.144	0.998	0.967	Pass
NVNT	3-DH1	2441.142	2442.138	0.996	0.957	Pass
NVNT	3-DH1	2479.138	2480.138	1.000	0.975	Pass

12.4 Test Result



	_	Test S NVNT 1	-DH1 240	2MHz		
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.40250	AC 0000 GHz	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr	COS:21 PM Apr 06, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET PNNNN
	IFGain		: 30 dB			01 864 GHz
Ref Offset 1.8 0 dB/div Ref 20.00 d	4 dB IBm				WKI 1 2.4	-5.279 dBm
0.00	A			\sim	$\gamma_{\Lambda_{n}}$	
	V VV V	mon mon		m	v	$\mathcal{W}_{\mathcal{W}}$
0.0			m/h			***
0.0						
0.0						
enter 2.402500 GHz Res BW 30 kHz		#VBW 100 k	Hz		Sp Sweep 2.133	oan 2.000 MHz ms (1001 pts)
KR MODE TRC SCL	X 2.401 864 GHz	Ƴ -5.279 dBm	FUNCTION FUN	ICTION WIDTH	FUNCTION VAL	.UE
2 N 1 f	2.402 886 GHz	-4.831 dBm				
4 5 6						=
7						
9 0						
G				STATUS		
Agilent Spectrum Analyzer - Swep		S NVNT 1	-DH1 244	1MHz		- 6 -
RL RF 50 Ω	t SA AC	SENSE:INT		ALIGN AUTO Avg Type: Log-	Pwr	:07:04 PM Apr 06, 2022
RL RF 50 Ω	t SA AC 0000 GHz	SENSE:INT	ree Run	ALIGN AUTO	Pwr 100	TRACE 2 3 4 5 0 TYPE MWWWW DET PNNNN
RL RF 50 Ω enter Freq 2.44150 	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 Ref 20.00 d Q dB/div Ref 20.00 d	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	TRACE 2 3 4 5 0 TYPE MWWWW DET PNNNN
RL RF 50 Ω enter Freq 2.44150 Ref 0ffset 1.8 Ref 0ffset 1.8 Ref 20.00 d 0 dB/div Ref 20.00 d	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	10704 PM Apros, 2022 TRACE 1 2 3 4 5 6 TYPE NINNIN 40 958 GHz -4.373 dBm
RL RF 50 Ω enter Freq 2.44150 Ref 0ffset 1.8 Ref 0ffset 1.8 D dB/div Ref 20.00 d Ref 20.00 d 0 0 0 0 0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 (TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 (TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 0 0 0 0 0.00 0 0 0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 (TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0.0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 (TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0 0.00 0 0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr 06, 2022 TRACE 12345 (TYPE MWWWW DET PNNNN 40 958 GHz
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT	ree Run	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	107:04 PM Apr06, 2023 TRACE] 2:34:55 TYPE 10958 GHz -4.373 dBm
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d	t SA AC 00000 GHz PNO: IFGain 6 dB	SENSE:INT Wide Trig: F #Atten	ree Run : 30 dB	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133	10:00 PM Apr06, 2023 TRACE 1 2:34 5 6 TYPE 1 2:34 5 6 TYPE 1 10:00 MHz A0 958 GHz -4.373 dBm
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 0 0 dB/div Ref 0 Ref 0	tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Wide Trig: F #Atten #VBW 100 k	ree Run : 30 dB	ALIGN AUTO Avg Type: Log-	Pwr 100 Mkr1 2.4	10:00 PM Apr06, 2023 TRACE 1 2:34 5 6 TYPE 1 2:34 5 6 TYPE 1 10:00 MHz A0 958 GHz -4.373 dBm
enter Freq 2.44150 Ref Offset 1.8 0 dB/div Ref 20.00 d 9 0 0 0	tSA AC DOUDO GHZ PNO: IFGain 66 dB IB 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT	ree Run : 30 dB	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133	10:00 PM Apr06, 2023 TRACE 1 2:34 5 6 TYPE 1 2:34 5 6 TYPE 1 10:00 MHz A0 958 GHz -4.373 dBm
RL Ref 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 dB/div Ref 20.00 d Ref 20.00 d <td>tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>SENSE:INT Wide Trig: F #Atten #VBW 100 k</td> <td>ree Run : 30 dB</td> <td>ALIGN AUTO Avg Type: Log- Avg Hold:>100/</td> <td>Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133</td> <td>10:00 PM Apr06, 2023 TRACE 1 2:34 5 6 TYPE 1 2:34 5 6 TYPE 1 10:00 MHz A0 958 GHz -4.373 dBm</td>	tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Wide Trig: F #Atten #VBW 100 k	ree Run : 30 dB	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133	10:00 PM Apr06, 2023 TRACE 1 2:34 5 6 TYPE 1 2:34 5 6 TYPE 1 10:00 MHz A0 958 GHz -4.373 dBm
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 00	tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Wide Trig: F #Atten #VBW 100 k	ree Run : 30 dB	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133	07:04 PM Apr06, 2023 TRACE] 23 4 5 c TYPE DET P NUMM 40 958 GHz -4.373 dBm
RL RF 50 Ω enter Freq 2.44150 Ref Offset 1.8 Ref Offset 1.8 0 dB/div Ref 20.00 d Ref 20.00 d 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 enter 2.441500 GHz Res BW 30 KHz 1 1 3 4 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 1 1 <td>tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>SENSE:INT Wide Trig: F #Atten #VBW 100 k</td> <td>ree Run : 30 dB</td> <td>ALIGN AUTO Avg Type: Log- Avg Hold:>100/</td> <td>Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133</td> <td>0:0:0 PM Apr06, 202 TRACE [] 2 3 4 3 6 TYPE M 3:000 per P NNNN 40 958 GHz -4.373 dBm</td>	tSA AC PNO: IFGain 6 dB IBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT Wide Trig: F #Atten #VBW 100 k	ree Run : 30 dB	ALIGN AUTO Avg Type: Log- Avg Hold:>100/	Pwr 100 Mkr1 2.4 2 2 2 5 5 Sweep 2.133	0:0:0 PM Apr06, 202 TRACE [] 2 3 4 3 6 TYPE M 3:000 per P NNNN 40 958 GHz -4.373 dBm



Agilent Spectrum Analyzer - Swe RL RF 50 G enter Freq 2.4795	2 AC 00000 GHz PM	SENSE:INT	eeRun Avg Hol	pe: Log-Pwr ld:>100/100	04:09:03 PM Apr 06, 202: TRACE 1 2 3 4 5 TYPE M WWWW DET P N N N N
Ref Offset 1.		Gain:Low #Atten: 3	30 dB	Mkr	1 2.478 956 GHz
0 dB/div Ref 20.00	dBm				-5.159 dBm
10.0 D.00	<u> </u>			<u>2</u>	
10.0	Jamma .			\sim	h.
20.0		~ MA ~	m		m
80.0					
50.0					
60.0					
.0.0					
enter 2.479500 GHz Res BW 30 kHz		#VBW 100 kF	Iz	Sweep	Span 2.000 MHz 2.133 ms (1001 pts)
KR MODE TRC SCL	× 2.478 956 GHz	Y FU -5.159 dBm	UNCTION FUNCTION WIDTH	FUNC	CTION VALUE
2 N 1 f	2.480 086 GHz	-5.028 dBm			
4					
6 7 8					
9					
1					
G			STATUS		
		CFS NVNT 2-I	DH1 2402MHz		
RL RF 50 Ω	ept SA 2 AC	CFS NVNT 2-I	DH1 2402MHz		04:11:34 PM Apr 06, 202
RL RF 50 Ω	ept SA 2 AC 00000 GHz PN	SENSE:INT	ALIGN AUTO AVG TY See Run Avg Hol	pe: Log-Pwr ld:>100/100	04:11:34 PM Apr 06, 202
RL RF 50 G enter Freq 2.40250 Ref Offset 1.	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVG TY See Run Avg Hol	pe: Log-Pwr Id:>100/100	04:11:34 PM Apr 06, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GH2
RL RF 50 ۵ enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 g enter Freq 2.40250	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 g enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref Offset 1. 0 dB/div Ref 20.00 9	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 G enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref Offset 1. 0 dB/div Ref 20.00 9	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 G enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 9	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 G enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 9	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 G enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 0 0	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL RF 50 G enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 0 d0 Ref 20.00 0.00	₽₽t SA 2 AC 00000 GHz PN IF0 84 dB	SENSE:INT	ALIGN AUTO AVIG TY See Run Avig Hol	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apr 06, 202 TRACE 2 3 4 5 TYPE MWWWW DET P NNNN 1 2.401 948 GHz
RL PF 50 c2 enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 0 g	ept SA 2 AC 2 AC P P P P P P P P P P P P P	SENSE:INT	DH1 2402MHz	pe: Log-Pwr ld:>100/100 Mkr	04:11:34 PM Apro6, 202 TRACE 12:34 5 TYPE
RL PF 50 C enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 0 d	ept SA 2 AC PP PP PF 84 dB dBm 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4	SENSE:INT NO: Wide Trig: Fre Gain:Low #Atten: :	DH1 2402MHz	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apro6, 202 TRACE 12 3 4 5 TYPE 0 NNNN 1 2.401 948 GH2 -5.591 dBm 5 5 5 5 5 5 9 1 2.000 MHz 2.133 ms (1001 pts)
enter Freq 2.40250	2 AC	SENSE:INT NO: Wide Trig: Fre Gain:Low Trig: Fre #Atten: : #VBW 100 kH #VBW 100 kH	DH1 2402MHz	pe: Log-Pwr Id:>100/100 Mkr	CH11:34 PM Apr 06, 202 TRACE 12.34 S TYPE MININA 12.401 948 GH2 -5.591 dBm Span 2.000 MHz 2.133 ms (1001 pts) CTION VALUE
RL PF 50.02 enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 9	x	SENSE:INT NO: Wide Trig: Fre Gain:Low #Atten: :	DH1 2402MHz	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apro6, 202 TRACE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 4 5 DEF D NNNN 1 2.401 948 GH2 -5.591 dBm
RL PF 50 C enter Freq 2.40250 Ref Offset 1. D dB/div Ref 20.00 00	2 AC	SENSE:INT NO: Wide Trig: Fre Gain:Low Trig: Fre #Atten: : #VBW 100 kH #VBW 100 kH	DH1 2402MHz	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apro6, 202 TRACE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 4 5 DEF D NNNN 1 2.401 948 GH2 -5.591 dBm
RL RF 50 f2 enter Freq 2.40250 Ref Offset 1. 0 dB/div Ref 20.00 0 d	2 AC	SENSE:INT NO: Wide Trig: Fre Gain:Low Trig: Fre #Atten: : #VBW 100 kH #VBW 100 kH	DH1 2402MHz	pe: Log-Pwr Id:>100/100 Mkr	04:11:34 PM Apro6, 202 TRACE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 3 4 5 TYPE 12 4 5 DEF D NNNN 1 2.401 948 GH2 -5.591 dBm



Agilent Spectrum Analyzer - Swe		CENCE THE			
enter Freq 2.4415		SENSE:INT	ALIGN AUTO Avg Type: Log-P	04:13:20 PM Apr 06, Wr TRACE 2 3 4	
	PNO IFGa	: Wide Trig: Free Run in:Low #Atten: 30 dB	Avg Hold:>100/10		
Ref Offset 1	.86 dB			Mkr1 2.440 958 G	
og dB/div Ref 20.00	dBm			-5.050 dE	
10.0	<u> </u>)	
).00					
80.0					
10.0					
50.0					
60.0					
0.0					
enter 2.441500 GHz Res BW 30 kHz	2	#VBW 100 kHz		Span 2.000 M Sweep 2.133 ms (1001 p	
KR MODE TRC SCL	X	Y FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
1 N 1 f 2 N 1 f	2.440 958 GHz 2.441 958 GHz	-5.050 dBm -4.928 dBm			
3					
5 6					
8					
9 0					
G					
			STATUS		
	С	FS NVNT 2-DH1			
Agilent Spectrum Analyzer - Swe	ept SA		2480MHz	04:16:23 PM Apr 06.	
Agilent Spectrum Analyzer - Swo RL RF 50 S	ept SA 2 AC 00000 GHz	SENSE:INT	2480MHz	04:16:23 PM Apr 06, TRACE 1234	
Agilent Spectrum Analyzer - Swo R L RF 50 S	ept SA 2 AC 00000 GHz PNO		2480MHz Align Auto	04:16:23 PM Apr 06, wr TRACE 1 2 3 4 0 TYPE MWW DET P NN	
Agilent Spectrum Analyzer - Sw RL RF 50 g enter Freq 2.4795 Ref Offset 1	ept SA 2 AC	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 2 3 4 0 TYPE WWW DET P NNT Mkr1 2.478 952 G	
Agilent Spectrum Analyzer - Sw RL RF 50 c enter Freq 2.4795 Ref Offset 1 0 dB/div Ref Offset 20.00	ept SA 2 AC	SENSE:INT	2480MHz	04:16:23 PM Apr 06, wr TRACE 1 2 3 4 0 TYPE MWW DET P NN	
Agilent Spectrum Analyzer - Swith RL RF 50 c enter Freq 2.4795 2.4795 Ref Offset 1 0 dB/div Ref 20.00 og 0 0	ept SA 2 AC	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apro6. TRACE 12 3 - 0 TYPE MININ DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Swith RL RF 50 0 enter Freq 2.4795 Swith D dB/div Ref Offset 1 0 dB/div Ref 20.00 0 dB/div Ref 20.00	ept SA 2 AC PNO IFGa 9 dB dBm	SENSE:INT	2480MHz	04:16:23 PM Apr06, TRACE 12:30 0 TYPE MAN DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 C enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00	ept SA 2 AC PNO PNO IFGa 9 dB dBm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apro6. TRACE 12 3 - 0 TYPE MININ DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 (2000) enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00 0 00 00 00 00	ept SA 2 AC PNO IFGa 9 dB dBm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apr06, TRACE 12:30 0 TYPE MAN DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 c enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00 0 0 00 0 00 0 00 0	ept SA 2 AC PNO IFGa 9 dB dBm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apr06, TRACE 12:30 0 TYPE MAN DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 c enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00 0 0 00 0 00 0 00 0 00 0 00 0 00 0 00 0	ept SA 2 AC PNO IFGa 9 dB dBm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apr06, TRACE 12:30 0 TYPE MAN DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Swith RL RF 50 c enter Freq 2.4795 Sector Spectrum Analyzer - Swith D dB/div Ref Offset 1 D dB/div Ref 20.00 0 Ref 20.00	ept SA 2 AC PNO IFGa 9 dB dBm	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apr06, TRACE 12:30 0 TYPE MAN DET P NNI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Swi RL RF 50 0 enter Freq 2.4795 Ref Offset 1 Odd Ref Offset 1 D dB/div Ref 20.00 Odd Ref 20.00 O O O O O O O O O O O O O O O O	ept SA 2 AC PNO PNO IFGa .9 dB dBm 1 .0 dB .9 d	SENSE:INT	ALIGN AUTO Avg Type: Log-Pr Avg Hold:>100/10	04:16:23 PM Apro6. wr TRACE 12:3 TYPE PMN1 Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 c enter Freq 2.4795 Sector Spectrum Analyzer - Sw Ref Offset 1 D D D dB/div Ref Offset 20.00 Ref 20.00 0 0 0 00 0 0 00 0 0 00 0 0 00 0 0 00 0 0	ept SA 2 AC PNO PNO IFGa .9 dB dBm 1 .0 dB .9 d	SENSE:INT	2480MHz	04:16:23 PM Apr06, WT TRACE 12:00 DET P NN1 Mkr1 2.478 952 G -5.605 dE 2 -5.605 dE 2 -5.605 dE	
Agilent Spectrum Analyzer - Sw RL RF 50 (enter Freq 2.4795 0 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	x	SENSE:INT	2480MHz	04:16:23 PM Apro6. wr TRACE 12:3 TYPE MINI Mkr1 2.478 952 G -5.605 dE	
Agilent Spectrum Analyzer - Swi RL RF S0 : enter Freq 2.4795 Ref Offset 1 0 dE/div dE/div Ref Offset 1 0 dE/div	ept SA 2 AC PNO FGa 9 dB dBm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Agilent Spectrum Analyzer - Swith Ref 2000 Ref Offset 1 Conter Freq 2.4795 Ref Offset 1 D dE/div Ref 20.00 O dE/div Ref 20.00 <th c<="" td=""><td>2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8</td><td>SENSE:INT</td><td>2480MHz</td><td>04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td></th>	<td>2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8</td> <td>SENSE:INT</td> <td>2480MHz</td> <td>04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td>	2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Agilent Spectrum Analyzer - Sw RL RF 50 c enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00 00 Ref 20.00 00 Ref 20.00 00 Ref 20.00 010 Ref 20.00 02 Ref 20.00 03 Ref 20.00 04 Ref 20.00 05 Ref 20.00 06 Ref 20.00 07 Ref 20.00 08 Ref 20.00 09 Ref 20.00 00 Ref 20.00	2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Agilent Spectrum Analyzer - Sw RL RF 50 C enter Freq 2.4795 Ref Offset 1 0 dB/div Ref 20.00 00 00 00 00 00 00 00 00 00	2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Agilent Spectrum Analyzer - Swith Ref 2010 Ref Offset 1 Ref Offset 1 O dB/div Ref 20.00 O dB/div	2 AC PNO 2 AC PNO 2 AC PNO PNO IFGa 9 dB dBm 1 1 1 2 2 4 2 4 7 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8	SENSE:INT	2480MHz	04:16:23 PM Apr06, wr TRACE 12:00 Apr06, DET P NNI Mkr1 2.478 952 G -5.605 dE 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	



	- Swept SA 50 Ω AC 2500000 GHz	SENSE:INT		04:18:36	Image: Constraint of the second sec
	PN	IO:Wide Trig:Fre Sain:Low #Atten: 3		>100/100	
Ref Offse	et 1.84 dB			Mkr1 2.402	146 GHz)71 dBm
og	00 dBm			-5.0	
0.0		<u>1</u>		<mark>2</mark>	
0.0	m			mmmm m	
20.0					
0.0					
0.0					
0.0					
0.0					
enter 2.402500 G	Hz				2.000 MH:
Res BW 30 kHz		#VBW 100 kH		Sweep 2.133 ms	(1001 pts
KR MODE TRC SCL	× 2.402 146 GHz	-5.071 dBm	JNCTION FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 f	2.403 144 GHz	-4.689 dBm			
4 5 6					
7					
9					
G					
			STATUS		
	(CFS NVNT 3-I	DH1 2441MHz		
	- Swept SA		DH1 2441MHz	04-20-23	
RL RF	- Swept SA 50 Ω AC 1500000 GHz PN	SENSE:INT	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TRA	PM Apr 06, 202
RL RF enter Freq 2.44 Ref Offse	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	SENSE:INT	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	:: Log-Pwr >100/100 T Mkr1 2.441 1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE MWWW DET PNNNN 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1	- Swept SA 50 Ω AC 15000000 GHz IFC	SENSE:INT	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	:: Log-Pwr >100/100 T Mkr1 2.441 1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	SENSE:INT	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
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RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 99 0.0 0.0 0.0	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 29 0.0 0.0 0.0 0.0	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20. 0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20. 99 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 0 g	- Swept SA 50 Ω AC 1500000 GHz PN IFC et 1.86 dB	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	: Log-Pwr TTRA >100/100 TT Mkr1 2.441 - -4.1	PM Apr 06, 202 ACE 1 2 3 4 5 YPE M WWWW DET P N N N N 142 GH
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 00	- Swept SA 50 0 AC 1500000 GHz P P P IFC et 1.86 dB 00 dBm	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz Align Auto Avg Type ee Run Avg[Hold:	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM 4pr06, 202 cc 1 2 3 4 5 rec 1 3 4 5 rec 1 2 3 4 5 rec 1
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 0 0 0 <td>- Swept SA 50 0 AC 1500000 GHz P P P IFC et 1.86 dB 00 dBm</td> <td>O: Wide Trig: Fre ain:Low #Atten: S</td> <td>DH1 2441MHz</td> <td>Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1</td> <td>PM Apro6, 202 CCE 12 3 4 5 FF P NNNN 142 GH: 32 dBn</td>	- Swept SA 50 0 AC 1500000 GHz P P P IFC et 1.86 dB 00 dBm	O: Wide Trig: Fre ain:Low #Atten: S	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCE 12 3 4 5 FF P NNNN 142 GH: 32 dBn
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20. 0 0	- Swept SA 50 Q AC 1500000 GHz P P P P P P P P P P P P P	SENSE:INT O: Wide Diain:Low Trig: Fre #Atten: S #Atten: S #VBW 100 kH Y FE	DH1 2441MHz	Elog-Pwr >100/100 TTR Mkr1 2.441 - -4.1	2.000 MH2
RL RF All enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 0 dB/div	- Swept SA 50 0 AC 1500000 GHz PN IFC et 1.86 dB 00 dBm 	SENSE:INT O: Wide ain:Low Trig: Fre #Atten: 3	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCC 12 3 4 5 P NNNN 142 GH2 32 dBm
enter Freq 2.44	- Swept SA 50.0 AC 1500000 GHz PN IFC et 1.86 dB 00 dBm 	SENSE:INT O: Wide ain:Low Trig: Fre #Atten: S #Atten: S #VBW 100 kH Y FL 4.132 dBm	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCC 12 3 4 5 P NNNN 142 GH2 32 dBm
RL PF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 00	- Swept SA 50.0 AC 1500000 GHz PN IFC et 1.86 dB 00 dBm 	SENSE:INT O: Wide ain:Low Trig: Fre #Atten: S #Atten: S #VBW 100 kH Y FL 4.132 dBm	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCE 12 3 4 5 FF P NNNN 142 GH: 32 dBn
RL RF enter Freq 2.44 Ref Offse 0 dB/div Ref 20,1 0 0	- Swept SA 50.0 AC 1500000 GHz PN IFC et 1.86 dB 00 dBm 	SENSE:INT O: Wide ain:Low Trig: Fre #Atten: S #Atten: S #VBW 100 kH Y FL 4.132 dBm	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCE 12 3 4 5 FF P NNNN 142 GH: 32 dBn
RL PF enter Freq 2.44 Ref Offse 0 dB/div Ref 20.1 0 0	- Swept SA 50.0 AC 1500000 GHz PN IFC et 1.86 dB 00 dBm 	SENSE:INT O: Wide ain:Low Trig: Fre #Atten: S #Atten: S #VBW 100 kH Y FL 4.132 dBm	DH1 2441MHz	Log-Pwr >100/100 TTR Mkr1 2.441 - -4.1	PM Apro6, 202 CCC 12 3 4 5 P NNNN 142 GH2 32 dBm



		CFS NVNT	3-DH1 2	2480MHz		
KI RL	rum Analyzer - Swept SA RF 50 Ω AC req 2.479500000 GH2	PNO: Wide C Inc	NT g: Free Run ten: 30 dB	ALIGN AUTO Avg Type Avg Hold:	: Log-Pwr >100/100	04:23:32 PM Apr 06, 202 TRACE 1 2 3 4 5 TYPE M WWWWW DET P NNNN
10 dB/div	Ref Offset 1.9 dB Ref 20.00 dBm				Mkr	1 2.479 138 GHz -4.664 dBm
10.00	m m	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		2
-20.0						
-50.0 -60.0 -70.0						
Center 2.4 Res BW	79500 GHz 30 kHz	#VBW 10	0 kHz	l	Sweep	Span 2.000 MH 2.133 ms (1001 pts
MKR MODE TR 1 N 1 2 N 1 3 4 5	f 2.479 138	Y GHz -4.664 dBm GHz -4.719 dBm	FUNCTION	FUNCTION WIDTH	FUNC	CTION VALUE
6 7 8 9 10						
11 (ISG			III	STATUS		4

No.: BCTC/RF-EMC-007

Page: 66 of 80



13. Number Of Hopping Frequency

13.1 Block Diagram Of Test Setup



13.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

13.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

13.4 Test Result

Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH1	79	15	Pass
NVNT	2-DH1	79	15	Pass
NVNT	3-DH1	79	15	Pass



Aqilent Spectrum Analyzer - Swept SA	opping No. NVNT	aphs 1-DH1 2441MHz	
RL RF 50 Ω AC enter Freq 2.441750000 GHz	SENSE:INT	ALIGN AUTO Avg Type: Log-Pw Run Avg Hold:>100/100	04:07:42 PM Apr 06, 20 TRACE 1 2 3 4
	PNO: Fast Free F IFGain:Low #Atten: 30	dB	TYPE MWWW DET PNNNN VIKr1 2.401 837 0 GH
Ref Offset 1.86 dB dB/div Ref 20.00 dBm g			-1.750 dBr
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0 <mark>1</mark> 0			¥
art 2.40000 GHz es BW 100 kHz	#VBW 300 kHz	S	Stop 2.48350 GH weep 8.000 ms (1001 pts
R MODE TRC SCL X	Y FUNC	CTION FUNCTION WIDTH	FUNCTION VALUE
N 1 f 2.401 837 0 GI N 1 f 2.480 160 0 GI			
			Þ
		STATUS	
Agilent Spectrum Analyzer - Swept SA	opping No. NVNT	2-DH1 2441MHz	
RL RF 50 Ω AC			
	PNO: Fast Trig: Free F	ALIGN AUTO Avg Type: Log-Pwi Run Avg Hold:>100/100	04:14:29 PM Apr 06, 20 TRACE 1 2 3 4 5
nter Freq 2.441750000 GHz		Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 1 2 3 4 9 TYPE MWWW DET P.NNN Wkr1 2.401 586 5 GH
nter Freq 2.441750000 GHz Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Fast 😱 Trig: Free F	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 1 2 3 4 9 TYPE MWWWW DET P N NN N
Ref Offset 1.86 dB Ref 20.00 dBm	PNO: Fast Trig: Free F IFGain:Low #Atten: 30	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 12 3 4 TYPE NNNN Wkr1 2.401 586 5 GH -6.763 dBr
Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Fast Trig: Free F IFGain:Low #Atten: 30	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 12 3 4 TYPE NNNN Wkr1 2.401 586 5 GH -6.763 dBr
Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Fast Trig: Free F IFGain:Low #Atten: 30	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 12 3 4 TYPE NNNN Wkr1 2.401 586 5 GH -6.763 dBr
nter Freq 2.441750000 GHz Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Fast Trig: Free F IFGain:Low #Atten: 30	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 23 TRADE 1 2 34 - TYPE MANNE DET P NNNN Mkr1 2.401 586 5 GH -6.763 dBr MVWWMMWW
nter Freq 2.441750000 GHz Ref Offset 1.86 dB dB/div Ref 20.00 dBm	PNO: Fast Trig: Free F IFGain:Low #Atten: 30	Avg Type: Log-Pw Run Avg Hold:>100/100 dB	04:14:29 PM Apr06, 20 TRACE 12 3 4 TYPE NNNN Wkr1 2.401 586 5 GH -6.763 dBr
nter Freq 2.441750000 GHz	PNO: Fast Trig: Free I IFGain:Low #Atten: 30	Avg Type: Log-Pwi Run Avg Hold:>100/100 dB I \$\frac{1}{2}\$,\frac{1}{2},\frac{1}{2}\$,\frac{1}{2}\$,\frac{1}{2}\$,\frac{1}{2}\$,\f	04:14:29 PM Apr06, 23 TRPE 12 34 TRPE 12 401 586 5 GH -6.763 dBr WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW
Ref Offset 1.86 dB Bef Offset 1.86 dB Image: Constraint of the second definition of the second defini	PNO: Fast IFGain:Low Trig: Free I #Atten: 30 WATCH Trig: Free I #Atten: 30 #Atten: 40 #Atten:	Avg Type: Log-Pwi Run Avg Hold:>100/100 dB I \$\frac{1}{2}\$,\frac{1}{2},\frac{1}{2}\$,\frac{1}{2}\$,\frac{1}{2}\$,\frac{1}{2}\$,\f	04:14:29 PM Apr06, 23 TRACE 12 34 3 TYPE MANN DET P NNNN Mkr1 2.401 586 5 GH -6.763 dBr -6.763 dBr
Ref Offset 1.86 dB BdB/div Ref 20.00 dBm Image: State of the s	PNO: Fast IFGain:Low Trig: Free I #Atten: 30 WMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Run Avg Type: Log-Pw Avg Hoid:>100/100 Avg Hoid:>100/100	04:14:29 PM Apr06, 23 TRACE 12 34 TYPE 12 DET P NNN1 Mkr1 2.401 586 5 GH -6.763 dBr -6.763 dBr -2.401 586 5 GH -6.763 dBr -6.763 dBr -7.764 dBr
Ref Offset 1.86 dB Bef Offset 1.86 dB Bit of the set 1.86 dB Image: the set 1.86 dB <td>PNO: Fast IFGain:Low Trig: Free I #Atten: 30 WMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM</td> <td>Run Avg Type: Log-Pw Avg Hoid:>100/100 Avg Hoid:>100/100</td> <td>04:14:29 PM Apr06, 23 TRACE 12 34 TYPE 12 DET P NNN1 Mkr1 2.401 586 5 GH -6.763 dBr -6.763 dBr -2.401 586 5 GH -6.763 dBr -6.763 dBr -7.764 dBr</td>	PNO: Fast IFGain:Low Trig: Free I #Atten: 30 WMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Run Avg Type: Log-Pw Avg Hoid:>100/100 Avg Hoid:>100/100	04:14:29 PM Apr06, 23 TRACE 12 34 TYPE 12 DET P NNN1 Mkr1 2.401 586 5 GH -6.763 dBr -6.763 dBr -2.401 586 5 GH -6.763 dBr -6.763 dBr -7.764 dBr
Ref Offset 1.86 dB B/div Ref 20.00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	PNO: Fast IFGain:Low Trig: Free I #Atten: 30 WMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	Run Avg Type: Log-Pw Avg Hoid:>100/100 Avg Hoid:>100/100	04:14:29 PM Apr06, 23 TRACE 12 34 TYPE 12 DET P NNN1 Mkr1 2.401 586 5 GH -6.763 dBr -6.763 dBr -2.401 586 5 GH -6.763 dBr -6.763 dBr -7.764 dBr



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RL	RF 5	0 Ω AC 750000 GHz	SENSE:	INT		be: Log-Pwr	04:21:49 PM	
enter F	leq 2.44 l			ig: Free Run tten: 30 dB		d:>100/100	TYPE	
) dB/div	Ref Offset Ref 20.0					Mkr	1 2.401 503 -5.78	
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		× 2.401 503 0 GHz	Y	FUNCTION	FUNCTION WIDTH	F	UNCTION VALUE	
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3								
5 6			i					
8								
9								
				III				Þ

No.: BCTC/RF-EMC-007

Page: 69 of 80



14. Dwell Time

14.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

14.2 Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

14.3 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0. Centred on a hopping channel;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

14.4 Test Result

DH5 Packet permit maximum 1600 / 79 / 6 hops per second in each channel (5 time slots RX, 1 time slot TX).

DH3 Packet permit maximum 1600 / 79 / 4 hops per second in each channel (3 time slots RX, 1 time slot TX).

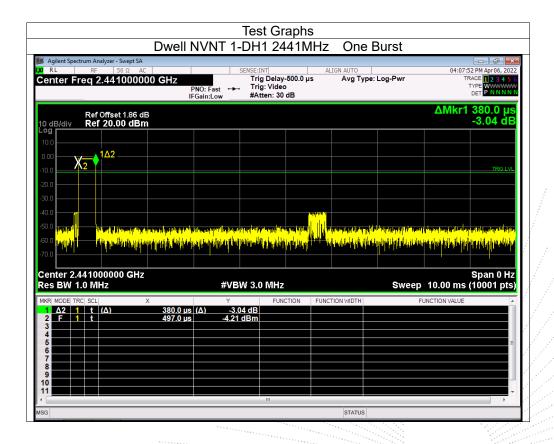
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

DH5:1600/79/6*0.4*79*(MkrDelta)/1000	
DH3:1600/79/4*0.4*79*(MkrDelta)/1000	
DH1:1600/79/2*0.4*79*(MkrDelta)/1000	
Remark: Mkr Delta is once pulse time.	

Page: 70 of 80



Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.380	120.840	400	Pass
NVNT	1-DH3	2441	1.636	258.488	400	Pass
NVNT	1-DH5	2441	2.883	311.364	400	Pass
NVNT	2-DH1	2441	0.389	123.313	400	Pass
NVNT	2-DH3	2441	1.641	274.047	400	Pass
NVNT	2-DH5	2441	2.890	309.230	400	Pass
NVNT	3-DH1	2441	0.389	124.091	400	Pass
NVNT	3-DH3	2441	1.639	252.406	400	Pass
NVNT	3-DH5	2441	2.891	309.337	400	Pass



Edition: A.4

Page: 71 of 80



	Dwell I	NVNT 1-I	DH3 244	41MHz	One I	Burst		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	00 GHz	SI PNO: Fast ↔→ FGain:Low	ENSE:INT Trig Delay-{ Trig: Video #Atten: 30 c	500.0 µs	GN AUTO	: Log-Pwr		TYPE WWWW DET PNNN
Ref Offset 1.86 dE 0 dB/div Ref 20.00 dBm							ΔMkr1	1.636 m -4.54 d
•g 10.0 2.00 X2	•1∆2							TRIG L
0.0								
0.0 10.0 11.1 VP		landar far fra tan						
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Conter 2.441000000 GHz center 2.441000000 GHz tes BW 1.0 MHz	<mark>Mud, Kata (</mark> Sold)	#VBV	V 3.0 MHz	<mark>loja aki huti ^janje a</mark> j		Sweep	pentri i contra fi	Span 0 H 5 (10001 pt
enter 2.441000000 GHz es BW 1.0 MHz	nind, Kriss (Angli)	#VBV #VBV	W.H.H.H. V 3.0 MHz FUNC 4 dB	<mark>loja aki huti ^janje a</mark> j		Sweep	իալորությի 10.00 ms	Span 0 H 5 (10001 pt
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A0.0 A1.0 A0.0 A1.0 A1.0 A1.0 Benter 2.441000000 GHz Center 2.4410000000 GHz Center 2.4410000000 GHz Center 2.4410000000 GHz Center 2.4410000000 GHz Center 2.44100000000 GHz Center 2.44100000000000000000000000000000000000	1.636 ms	#VBV	W.H.H.H. V 3.0 MHz FUNC 4 dB	<mark>loja aki huti ^janje a</mark> j		Sweep	իալորությի 10.00 ms	Span 0 H 5 (10001 pt
800 0 Martin Senter 2.441000000 GHz senter 2.441000000 GHz KR MODE TRC SCL 1 A2 1 t 2 F 1 t 3 4 5	1.636 ms	#VBV 4.54	W.H.H.H. V 3.0 MHz FUNC 4 dB	<mark>loja aki huti ^janje a</mark> j		Sweep	իալորությի 10.00 ms	Span 0 H 5 (10001 pt
40.0 1	1.636 ms	#VBV 4.54	W.H.H.H. V 3.0 MHz FUNC 4 dB	<mark>loja aki huti ^janje a</mark> j		Sweep	իալորությի 10.00 ms	Span 0 H 5 (10001 pt
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.636 ms	#VBV 4.54	W.H.H.H. V 3.0 MHz FUNC 4 dB	<mark>loja aki huti ^janje a</mark> j		Sweep	իալորությի 10.00 ms	Span 0 H 5 (10001 pt

	Dwell N					Burst		
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC			THOR THIS				04-26-	
enter Freq 2.4410000	00 GHz	NO: Fast ↔ Gain:Low	Trig Delay- Trig: Video #Atten: 30 (500.0 µs	IGN AUTO Avg Type	: Log-Pwr	т	39 PM Apr 06, 20 RACE 1 2 3 4 TYPE WWWWW DET P N N N
Ref Offset 1.86 dl dB/div Ref 20.00 dBn							∆Mkr1	2.883 m 0.28 d
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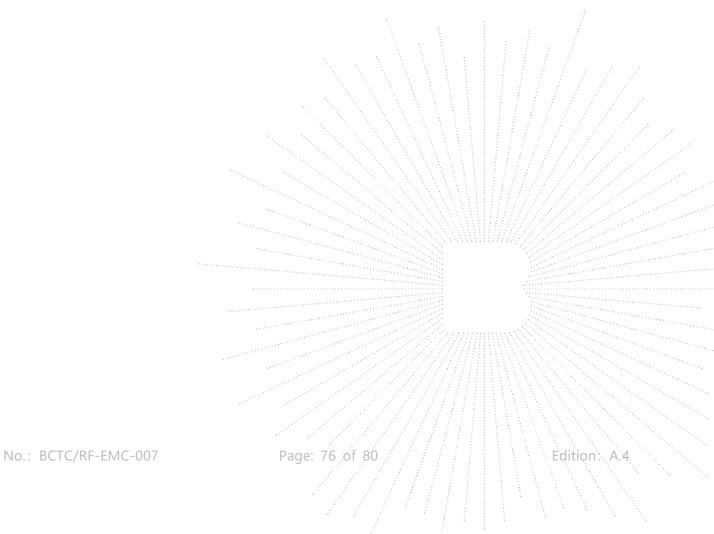
15. Antenna Requirement

15.1 Limit

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

15.2 Test Result

The EUT antenna is Internal antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

No.: BCTC/RF-EMC-007

Page: 77 of 80



17. EUT Test Setup Photographs

Conducted emissions



No.: BCTC/RF-EMC-007

Page: 78 of 80



Radiated Measurement Photos





STATEMENT

1. The equipment lists are traceable to the national reference standards.

2. The test report can not be partially copied unless prior written approval is issued from our lab.

3. The test report is invalid without stamp of laboratory.

4. The test report is invalid without signature of person(s) testing and authorizing.

5. The test process and test result is only related to the Unit Under Test.

6.The quality system of our laboratory is in accordance with ISO/IEC17025.

7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: http://www.chnbctc.com

E-Mail: bctc@bctc-lab.com.cn

***** END *****

No.: BCTC/RF-EMC-007

Page: 80 of 80