

TEST REPORT

Report No.:	BCTC2210962121E
Applicant:	Accutime Watch Corp
Product Name:	EARPOD
Model/Type reference:	I12
Tested Date:	2022-10-19 to 2022-10-26
Issued Date:	2022-10-27
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sne ∎≿∰∷∎	nzhen BCTC Testing Co., Ltd.
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FCC ID: 2ALPLI12

Product Name:	EARPOD			
Trademark:	N/A			
Model/Type Reference:	I12 JSE40106_EP, JSE40108_EP, JSE40231_EP			
Prepared For:	Accutime Watch Corp			
Address:	1001 Ave Of the Americas, New York, NY10018 United states			
Manufacturer:	Accutime Watch Corp			
Address:	1001 Ave Of the Americas, New York, NY10018 United states			
Prepared By:	Shenzhen BCTC Testing Co., Ltd.			
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China			
Sample Received Date:	2022-10-19			
Sample tested Date:	2022-10-19 to 2022-10-26			
Issue Date:	2022-10-27			
Report No.:	BCTC2210962121E			
Test Standards:	FCC Part15.247 ANSI C63.10-2013			
Test Results:	PASS			
Remark:	This is Bluetooth Classic radio test report.			

Tested by:

Eric Yang/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.

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(Note: N/A Means Not Applicable)

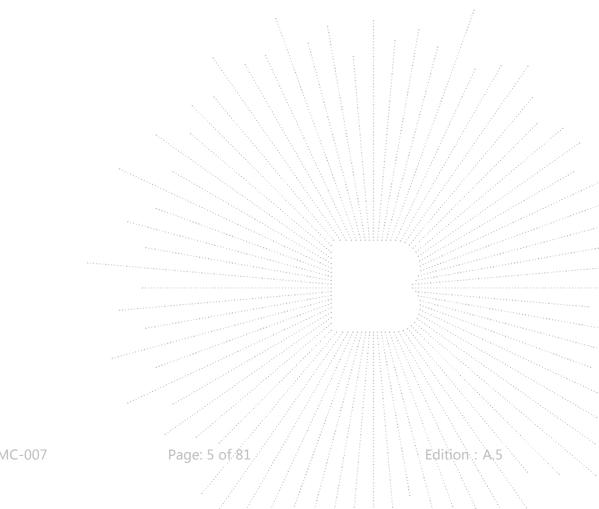
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2210962121E	2022-10-27	Original	Valid





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	Hopping channel separation	§15.247(a)(1)	PASS
5	Number of hopping frequencies	§15.247(a)(1)(iii)	PASS
6	Dwell Time	§15.247(a)(1)(iii)	PASS
7	Spurious RF conducted emissions	§15.247(d)	PASS
8	Band edge	§15.247(d)	PASS
9	Spurious radiated emissions for transmitter	§15.247(d) & §15.209 & §15.205	PASS
10	Antenna Requirement	15.203	PASS

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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

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4. Product Information And Test Setup

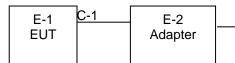
4.1 Product Information

Model/Type reference:	I12 JSE40106 EP, JSE40108 EP, JSE40231 EP
Model differences:	All the model are the same circuit and RF module, except model names.
Bluetooth Version:	5.0
Hardware Version:	V1.0
Software Version:	V003
Operation Frequency:	Bluetooth: 2402-2480MHz
Type of Modulation:	Bluetooth: GFSK, π/ 4 DQPSK, 8DPSK
Number Of Channel	79CH
Antenna installation:	PCB antenna
Antenna Gain:	-0.58 dBi
Ratings:	DC3.7V From Battery, DC 5V From Adapter

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-2	Adapter	N/A	BCTC001	N/A	Auxiliary

ltem	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	0.8M	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

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



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 (Radiated emission)					
5	Cha	rging (Conducted	d 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	Airoha.AB152x_LabTestTool			
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, Zhancheng, 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	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	١	١
Attenuator	/	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Metter	Keysight	E4419		May 24, 2022	May 23, 2023	
Power Sensor (AV)	Keysight	E9300A		May 24, 2022	May 23, 2023	
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023	
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 24, 2022	May 23, 2023	



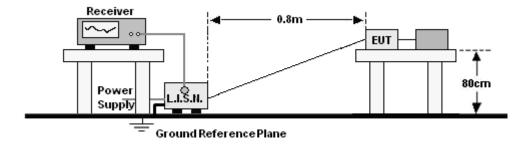
Radiated Emissions Test (966 Chamber)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18 G-45dB	١	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenn (18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-000 8	May 26, 2022	May 25, 2023
RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	May 26, 2022	May 25, 2023
RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	1	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A		May 26, 2022	May 25, 2023
Signal Analyzer 20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 26, 2022	May 25, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	$\sum \left\{ \sum_{i=1}^{n} \left\{ i \in \mathcal{A}_{i} \right\} \right\}$	$\langle / / \Lambda \rangle $

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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

	1. Contract of the second seco		1
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.

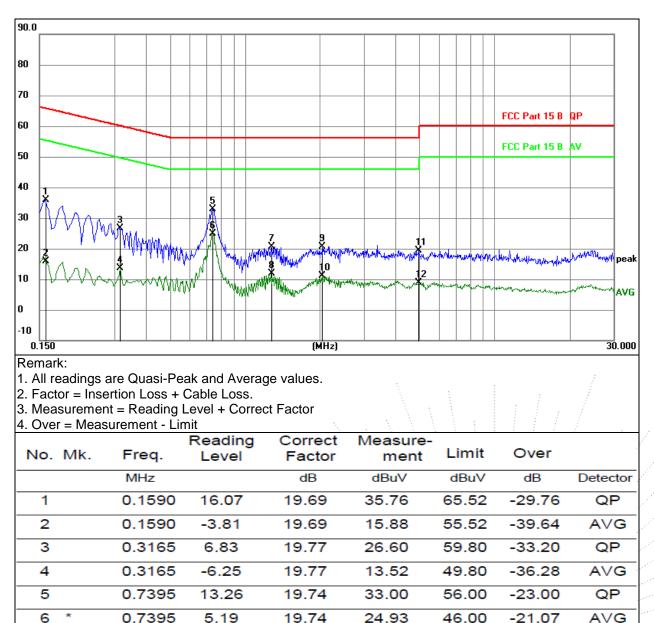
6.4 EUT operating Conditions

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 5	Test Voltage :	AC 120V/60Hz



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7

8

9 10

11

12

1.2705

1.2705

2.0355

2.0355

4.9694

4.9694

0.77

-8.00

0.80

-8.82

-0.73

-11.20

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19.79

19.79

19.88

19.88

20.13

20.13

20.56

11.79

20.68

11.06

19.40

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QP

AVG

QP

AVG

QP

AVG

-35.44

-34.21

-35.32

-34.94

-36.60

-37.07

56.00

46.00

56.00

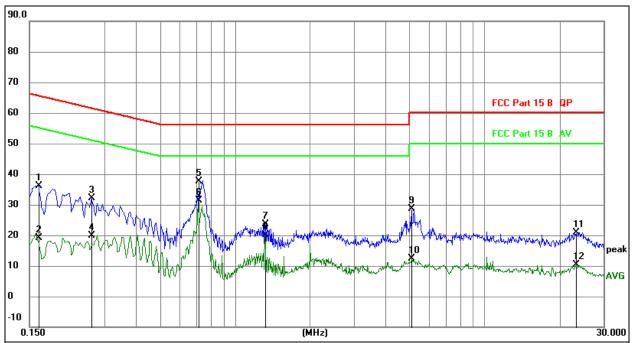
46.00

56.00

46.00



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 5	Test Voltage :	AC 120V/60Hz



Remark:

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

4. Over =	Measurement -	Limit
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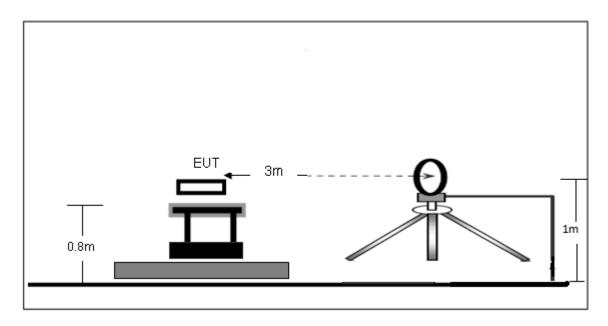
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1633	16.43	19.70	36.13	65.29	-29.16	QP
2		0.1633	-0.59	19.70	19.11	55.29	-36.18	AVG
3		0.2658	12.34	19.78	32.12	61.25	-29.13	QP
4		0.2658	0.19	19.78	19.97	51.25	-31.28	AVG
5		0.7122	18.01	19.74	37.75	56.00	-18.25	QP
6	*	0.7122	11.60	19.74	31.34	46.00	-14.66	AVG
7		1.3168	3.80	19.80	23.60	56.00	-32.40	QP
8		1.3168	0.43	19.80	20.23	46.00	-25.77	AVG
9		5.1118	8.55	20.13	28.68	60.00	-31.32	QP
10		5.1118	-7.76	20.13	12.37	50.00	-37.63	AVG
11		23.2633	0.45	20.52	20.97	60.00	-39.03	QP
12		23.2633	-10.25	20.52	10.27	50.00	-39.73	AVG



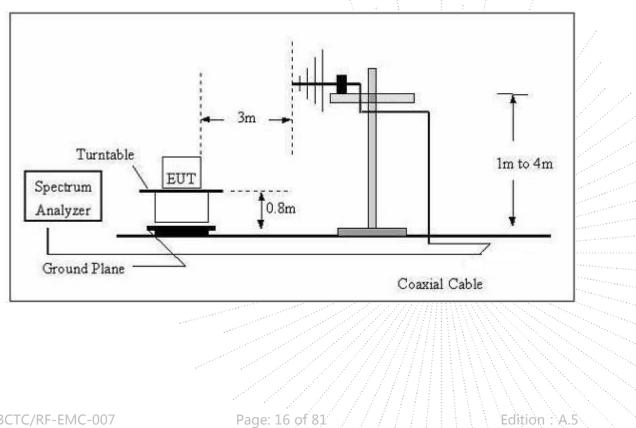
7. **Radiated emissions**

Block Diagram Of Test Setup 7.1

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

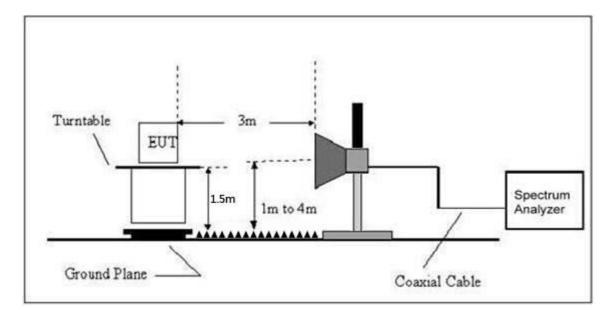


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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			
Auto				
	9kHz~150kHz			
	150kHz~30MHz			
)	30MHz~1000MHz			
>)F				

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	Test Voltage :	DC 3.7V	
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.

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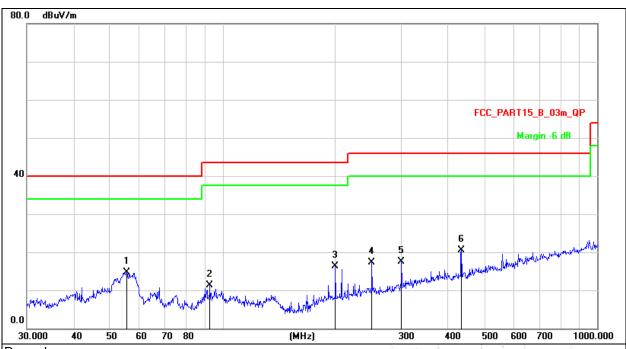
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Between 30MHz – 1GHz

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage:	DC 3.7V



Remark:

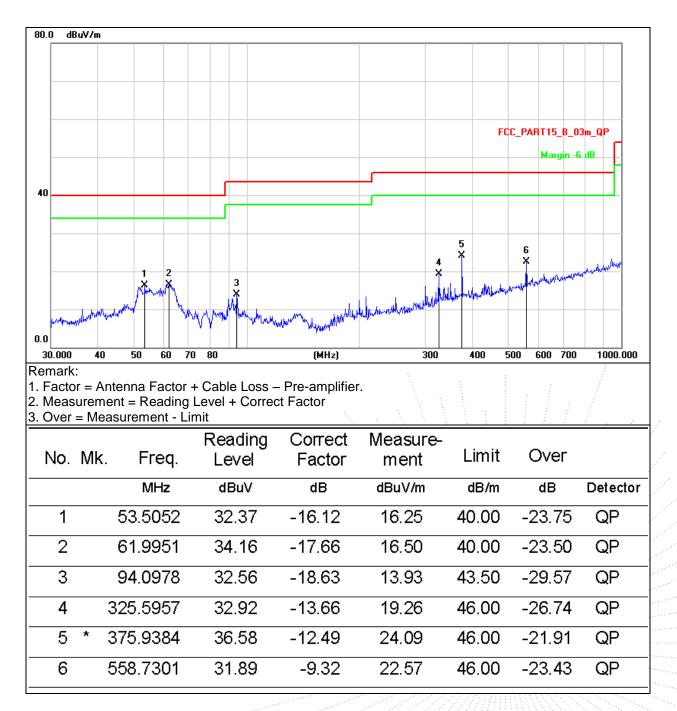
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

2. Measurement = Reading Level + Correct Factor 3. Over = Measurement - Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	55.4147	31.16	-16.40	14.76	40.00	-25.24	QP
2		92.4624	30.10	-18.87	11.23	43.50	-32.27	QP
3		199.9856	33.68	-17.37	16.31	43.50	-27.19	QP
4		250.3012	33.09	-15.82	17.27	46.00	-28.73	QP
5	,	300.3672	31.98	-14.57	17.41	46.00	-28.59	QP
6		434.0651	32.13	-11.72	20.41	46.00	-25.59	QP



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	Test Voltage:	DC 3.7V





Between 1GHz – 25GHz

Polar	Frequency	Reading Level	Correct Factor	Measure- ment	Limits	Over	Detector		
(H/V)	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	Туре		
GFSK Low channel									
V	4804.00	54.39	-0.43	53.96	74.00	-20.04	PK		
V	4804.00	43.97	-0.43	43.54	54.00	-10.46	AV		
V	7206.00	46.88	8.31	55.19	74.00	-18.81	PK		
V	7206.00	36.23	8.31	44.54	54.00	-9.46	AV		
Н	4804.00	52.40	-0.43	51.97	74.00	-22.03	PK		
Н	4804.00	42.60	-0.43	42.17	54.00	-11.83	AV		
Н	7206.00	44.39	8.31	52.70	74.00	-21.30	PK		
Н	7206.00	36.00	8.31	44.31	54.00	-9.69	AV		
		G	FSK Middle c	hannel					
V	4882.00	51.70	-0.38	51.32	74.00	-22.68	PK		
V	4882.00	44.38	-0.38	44.00	54.00	-10.00	AV		
V	7323.00	43.93	8.83	52.76	74.00	-21.24	PK		
V	7323.00	35.27	8.83	44.10	54.00	-9.90	AV		
Н	4882.00	47.63	-0.38	47.25	74.00	-26.75	PK		
Н	4882.00	37.79	-0.38	37.41	54.00	-16.59	AV		
Н	7323.00	42.37	8.83	51.20	74.00	-22.80	PK		
Н	7323.00	34.93	8.83	43.76	54.00	-10.24	AV		
			GFSK High ch	nannel					
V	4960.00	54.14	-0.32	53.82	74.00	-20.18	PK		
V	4960.00	43.73	-0.32	43.41	54.00	-10.59	AV		
V	7440.00	45.55	9.35	54.90	74.00	-19.10	PK		
V	7440.00	36.34	9.35	45.69	54.00	-8.31	AV		
Н	4960.00	51.73	-0.32	51.41	74.00	-22.59	PK		
Н	4960.00	41.38	-0.32	41.06	54.00	-12.94	AV		
Н	7440.00	42.92	9.35	52.27	74.00	-21.73	PK		
H	7440.00	34.14	9.35	43.49	54.00	-10.51	AV		

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.

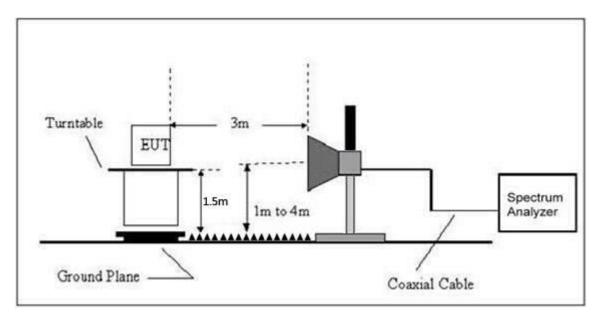
5.All the Modulation are test, the worst mode is GFSK, the data recording in the report.



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	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).

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 Factor		Measure- ment (dBuV/m)		nits IV/m)	Result	
	(,.)	(aBuv/m)	(dB)	РК	РК	AV			
	Low Channel 2402MHz								
	Н	2390.00	52.74	-6.70	46.04	74.00	54.00	PASS	
	Н	2400.00	56.00	-6.71	49.29	74.00	54.00	PASS	
	V	2390.00	52.95	-6.70	46.25	74.00	54.00	PASS	
GFSK	V	2400.00	52.78	-6.71	46.07	74.00	54.00	PASS	
Gran			High	n Channel 2	480MHz				
	Н	2483.50	51.57	-6.79	44.78	74.00	54.00	PASS	
	Н	2500.00	47.97	-6.81	41.16	74.00	54.00	PASS	
	V	2483.50	52.19	-6.79	45.40	74.00	54.00	PASS	
	V	2500.00	48.07	-6.81	41.26	74.00	54.00	PASS	
	Low Channel 2402MHz								
	Н	2390.00	52.50	-6.70	45.80	74.00	54.00	PASS	
	Н	2400.00	56.77	-6.71	50.06	74.00	54.00	PASS	
	V	2390.00	51.60	-6.70	44.90	74.00	54.00	PASS	
π/4DQPSK	V	2400.00	52.02	-6.71	45.31	74.00	54.00	PASS	
II/4DQF3N			Higł	n Channel 2	480MHz				
	Н	2483.50	50.57	-6.79	43.78	74.00	54.00	PASS	
	Н	2500.00	47.66	-6.81	40.85	74.00	54.00	PASS	
	V	2483.50	50.39	-6.79	43.60	74.00	54.00	PASS	
	V	2500.00	46.69	-6.81	39.88	74.00	54.00	PASS	
			Low	Channel 2	402MHz				
	Н	2390.00	53.99	-6.70	47.29	74.00	54.00	PASS	
	Н	2400.00	57.67	-6.71	50.96	74.00	54.00	PASS	
	V	2390.00	53.49	-6.70	46.79	74.00	54.00	PASS	
8DPSK	V	2400.00	54.30	-6.71	47.59	74.00	54.00	PASS	
00494			High	n Channel 2	480MHz				
	Н	2483.50	53.63	-6.79	46.84	74.00	54.00	PASS	
	Н	2500.00	50.74	-6.81	43.93	74.00	54.00	PASS	
	V	2483.50	53.70	-6.79	46.91	74.00	54.00	PASS	
	V	2500.00	49.65	-6.81	42.84	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:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

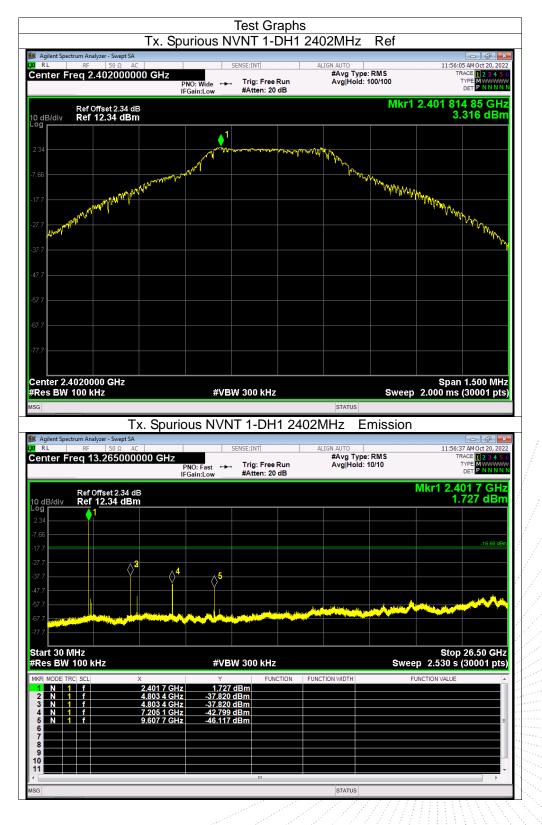
Detector function = peak, Trace = max hold

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Edition : A.5



9.4 Test Result



Edition: A.5



Agilent Spectrum Analyzer - Swep					
RL RF 50 Ω enter Freq 2.44100		SENSE:INT		pe: RMS	TRACE 1 2 3 4 5
	Р	NO:Wide ⊶⊶ Trig:Fre Gain:Low #Atten::		d: 100/100	
Ref Offset 2.3	36 dB			Mkr1 2.440	818 40 GH
o dB/div Ref 12.36 c					2.754 dBn
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37.6					
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Res BW 100 kHz		#VBW 300 kH	IZ	Sweep 2.000	ms (JUUUT pts
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	Ty Sourio			Emission	
		ous NVNT 1-DI		Emission	
Agilent Spectrum Analyzer - Swep RL RF 50 Ω	Pt SA		H1 2441MHz	11	1:57:42 AM Oct 20, 202
Agilent Spectrum Analyzer - Swep RL RF 50 Ω	or SA AC 000000 GHz P	SENSE:INT NO: Fast ↔ Trig: Fre	H1 2441MHz ALIGN AUTO #Avg Ty see Run Avg[Hol	11 pe: RMS	1:57:42 AM Oct 20, 202 TRACE 1 2 3 4 5
Agilent Spectrum Analyzer - Swe RL RF 50 Ω enter Freq 13.2650	AC 000000 GHz IF	SENSE:INT	H1 2441MHz ALIGN AUTO #Avg Ty see Run Avg[Hol	11 rpe: RMS d: 10/10	L:57:42 AM Oct 20, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.3 0 dB/div Ref 12.36 d 9 1	AC A	SENSE:INT NO: Fast ↔ Trig: Fre	H1 2441MHz ALIGN AUTO #Avg Ty see Run Avg[Hol	11 rpe: RMS d: 10/10	1:57:42 AM Oct 20, 203 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN 2.440 5 GH
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Agilent Spectrum Analyzer - Swe R L RF 50 Ω	pt SA AC 000000 GHz			2480MHz	Emission	11:59:23 TRA	AM Oct 20, 20
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Edition: A.5



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RL RF 50 Ω enter Freq 13.2650 Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (Ref 2: 1 1 1 64 1 1 7:6 1 1 7:7.6 1 1 7:7.6 1 1 7:7.6 1 1 1 1 1 1 1 1 2 N 1 1 3 N 1 1 4 N 1 1	Pt SA AC D000000 GHz 36 dB dBm 36 dB 36 dB 48m 482 0 GHz 7.322 5 GHz 7.322 5 GHz 7.322 5 GHz	PNO: Fast FGain:Low	SEINT Trig: Free Run FAtten: 20 dB	ALIGN AUTO #Avg Typ Avg Hold:	e: RMS 10/10	TR T Mkr1 2.44 1.3 5 5 5 1.3 5 5 1.3 5 1.3 5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	26.50 GH
RL RF 50 Ω enter Freq 13.2650 Ref Offset 2: Ref Offset 2: 0 dB/div Ref 12.36 (1 1235 1 1 136 1 1 136 1 1 136 1 1 136 1 1 136 1 1 1376 1 1 138 1 1 141 1 1 1 1 1 1 1 1	pt SA AC D000000 GHz 36 dB dBm 48m 48m 48m 48m 482 GHz 7.322 5 GHz 7.322 5 GHz 4.882 0 GHz	PNO: Fast FGain:Low	SEINT Trig: Free Run FAtten: 20 dB	ALIGN AUTO #Avg Typ Avg Hold:	e: RMS 10/10	TR T Mkr1 2.44 1.3 5 5 5 1.3 5 5 1.3 5 1.3 5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	26.50 GH
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RL RF 50 ft enter Freg 13.2650 Ref Offset 2. Ref Offset 2. 0 dB/div Ref 12.36 ft Ref 0.1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 7.6 1 1 8 100 KHz 1 8 1 1 1 1 1 3 1 1 5 1 1	Pt SA AC D000000 GHz 36 dB dBm 36 dB 36 dB 48m 482 0 GHz 7.322 5 GHz 7.322 5 GHz 7.322 5 GHz	PNO: Fast FGain:Low	SEINT Trig: Free Run FAtten: 20 dB	ALIGN AUTO #Avg Typ Avg Hold:	e: RMS 10/10	TR T Mkr1 2.44 1.3 5 5 5 1.3 5 5 1.3 5 1.3 5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	26.50 GH

Edition: A.5



Agilent Spectrum Analyzer - Swep R L RF 50 Ω	AC	SENSE:I	NT	ALIGN AUTO		12:12:1	0 PM Oct 20, 20
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RL RF 50 Ω enter Freq 13.2650 Ref Offset 2.4 0 dB/div Ref 12.40 d	AC 000000 GHz	SENSE:I	NT g: Free Run	80MHz E	e: RMS 10/10	TR T Mkr1 2.48	2 PM Oct 20, 20 ACE 1 2 3 4 5 TYPE M NNN DET P NNNN
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Edition: A.5



Agilent Spectrum Analyzer - Swept					
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RL 85 50 Ω enter Freq 13.26500 D dB/div Ref 12.34 d 09 04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AC C DODOOO GHZ F 4 dB Bm	SENSE:INT	ALIG!	AUTO #Avg Type: RMS	12:14:52 РМОГ 20, 22 ТRACE 1 2 3 4 - ТУРЕ МИЛИН ОСТ РАЛИКИ ОСТ РАЛИКИ ВИКГ1 2.401 7 GH 2.098 dBr
RL Ref 0ffset2.3 Ref 0ffset2.3 0 dB/div Ref 12.34 d 0 g 0 dB/div Ref 12.34 d 1 .66 7.7 7.7 7.7 7.7 7.7	AC DOUDOO GHz	SENSE:INT PNO: Fast -→- Trig: Gain:Low #Atter	ALIG!	AUTO #Avg Type: RMS	12:14:52 РМОГ 20, 22 ТRACE 1 2 3 4 - ТУРЕ МИЛИН ОСТ РАЛИКИ ОСТ РАЛИКИ ВИКГ1 2.401 7 GH 2.098 dBr
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RL RF 50.02 enter Freq 13.26500 Ref Offset 2.34 34 0 dB/div Ref 12.34 d 9 34 1 1 66 1 1 7.7 1 <td>AC DOUDOO GHz</td> <td>SENSE:INT PNO: Fast -→- Trig: Gain:Low #Atter</td> <td>ALIG!</td> <td>AUTO #Avg Type: RMS</td> <td>12:14:52 PM Oct 20, 20 TRACE 12:34 5 TYPE MULTING DET P NNNN Mkr1 2.401 7 GH 2.098 dBr -18:64 dE</td>	AC DOUDOO GHz	SENSE:INT PNO: Fast -→- Trig: Gain:Low #Atter	ALIG!	AUTO #Avg Type: RMS	12:14:52 PM Oct 20, 20 TRACE 12:34 5 TYPE MULTING DET P NNNN Mkr1 2.401 7 GH 2.098 dBr -18:64 dE
RL Ref 50 02 enter Freq 13.26500 Ref Offset 2.33 Ref 12.34 d 0 dB/div Ref 12.34 d 1 66 1 1 67 1 1 7.7 7 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7	AC DOUDOO GHz	PNO: Fast + Trig: I Gain:Low + Trig: #Atter	Free Run 1: 20 dB	Auto #Avg Type: RMS Avg Hold: 10/10	12:14:52 PM Oct 20, 20 TRACE 12 23 4 DET PET NNNN Mkr1 2.401 7 GH 2.098 dBr .18.64 dE
RL RF 50 02 enter Freq 13.26500 Ref Offset 2.3/ Ref 0 ffset 2.3/ R	AC DOUDOO GHz	SENSE:INT PNO: Fast -→- Trig: Gain:Low #Atter	Free Run 1: 20 dB	#Avg Type: RMS Avg Hold: 10/10	12:14:52 PM Oct 20, 20 TRACE 12 23 4 DET PET NNNN Mkr1 2.401 7 GH 2.098 dBr .18.64 dE
RL RF 50.02 enter Freq 13.26500 Ref Offset 2.3/ Ref 12.34 d 0 dB/div Ref 12.34 d 1 3.34 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 7.7 1 1 8.8 MHz 1 Res BW 100 kHz KR <mobe scl<="" td="" trc =""> N 1 1</mobe>	AC 00000 GHz F	PNO: Fast Gain:Low → Trig: I #Atter	ALIGN	#Avg Type: RMS Avg Hold: 10/10	12:14:52 PM Oct 20, 20 TRACE 12:45 TYPE 12:45 OFT P NNNN Mkr1 2.401 7 GH 2.098 dBr -16:64 @ Stop 26.50 GH weep 2.530 s (30001 pt
Ref Offset 2.34 O dB/div Ref 12.34 d 234 1 234 1 235 1 236 1 237 1 238 1 239 1 234 1 234 1 234 1 234 1 234 1 234 1 2 1 2 N 4 1 5 7 7 2 1 1 1 1 2 N 4 1	AC AC AC AC AC AC AC AC AC AC	SENSE:INT PNO: Fast →→ Trig: Gain:Low → #Atter #Atter \$ 5 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	ALIGN	#Avg Type: RMS Avg Hold: 10/10	12:14:52 PMOR 20, 20 TRACE TYPE 0 ET 0
RL Ref 50 02 enter Freq 13.26500 Ref Offset 2.3 Ref Offset 2.3 0 dB/div Ref 12.34 d Ref 12.34 d 0'9' 1 1 0 dB/div Ref 12.34 d 1 0'9' 1 1 0'9' 1 1 0'9' 1 1 0'1' 1 1 1'' 1'' 1 1'' 1'' 1''' 1'' 1''' 1'''' 1'' 1'''' 1''''' 1''' 1''''' 1''''''''''''''''''''''''''''''''''''	AC AC AC AC AC AC AC AC AC AC	SENSE:INT PNO: Fast →→ Trig: Gain:Low → #Atter #Atter \$ 5 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5 \$ 5	ALIGN	#Avg Type: RMS Avg Hold: 10/10	12:14:52 PM Oct 20, 20 TRACE 12:45 TYPE 12:45 OFT P NNNN Mkr1 2.401 7 GH 2.098 dBr -16:64 @ Stop 26.50 GH weep 2.530 s (30001 pt
RL Ref 50 02 enter Freq 13.26500 Ref Offset 2.3/ 9 0 dB/div Ref 12.34 d 9 1 6 1 34 1 1 66 1 1 7 7 1 7.7 7 1 7.7 1 1 7.7 1 1 7.7 1 1 8 100 kHz Res BW 100 kHz 1 1 1 1 3 1 1 5 1 1	x 2.401 7 GHz 4.000 2.401 7 GHz 4.004 2.401 7 GHz 4.004 3 GHz 4	SENSE:INT Cain:Low → Trig: Gain:Low → Trig: #Atter 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4	ALIGN	#Avg Type: RMS Avg Hold: 10/10	12:14:52 РМОсt 20, 20 ТРАСЕ 12 24 ТРАСЕ 1
RL RF 50 02 enter Freq 13.26500 Ref Offset 2.3/ 0 dB/div Ref 12.34 d 34 1 34 1 77 1 1 1	x 2.401 7 GHz 4.000 2.401 7 GHz 4.004 2.401 7 GHz 4.004 3 GHz 4	SENSE:INT Cain:Low → Trig: Gain:Low → Trig: #Atter 5 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4	ALIGN	#Avg Type: RMS Avg Hold: 10/10	12:14:52 PMOR 20, 20 TRACE TYPE 0 ET 0

Edition: A.5

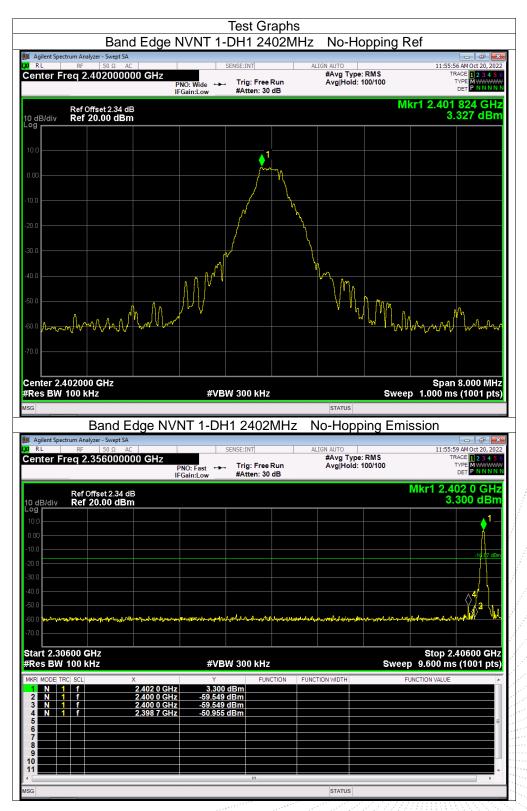


Agilent Spectrum Analyzer - Swe					- F
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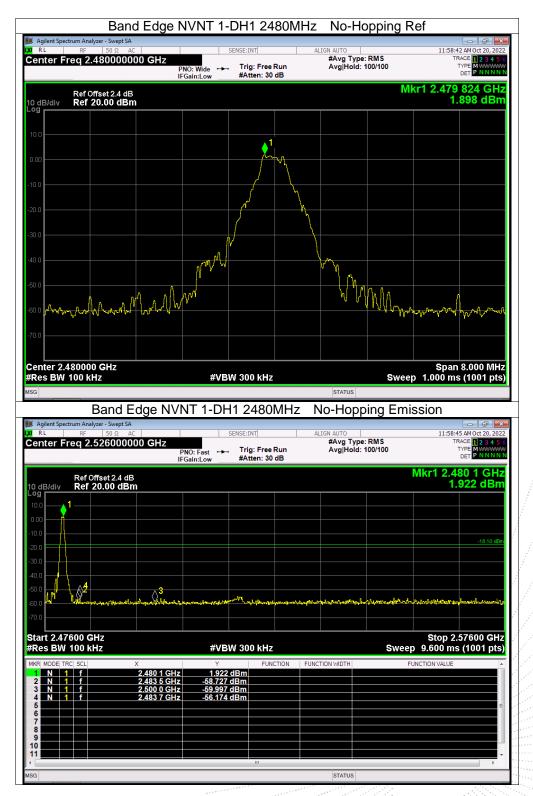


Agilent Spectrum Analyzer - Swep RL RF 50 Ω		SENSE	INT	ALIGN AUTO		12:16:35 PM Oct 20, 20
enter Freq 2.48000				#Avg Typ	e: RMS	TRACE 1 2 3 4
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Agilent Spectrum Analyzer - Swee		ous NVNT (3-DH1 24		mission	
RL RF 50 Ω	AC			480MHz E		12:17:07 PM Oct 20, 20 TRACE
RL RF 50 Ω	AC	SENSE NO: Fast ↔ Tr	:INT ig: Free Run	480MHz E	e: RMS	
RL RF 50Ω enter Freq 13.2650	AC A	SENSE	INT	480MHz E Align auto #Avg Typ	e: RMS : 10/10	12:17:07 PM Oct 20, 20 TRACE 1 2 3 4 TYPE MWWW DET PNNN
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RL RF 50 2 enter Freq 13.2650 Ref Offset 2.4 Ref 12.40 c 140 7.6 7.6 7.6 7.6 7.6 7.6 7.6	AC C	SENSE PNO: Fast ↔ Tr Gain:Low ##	:INT ig: Free Run	480MHz E Align auto #Avg Typ	e: RMS : 10/10	12:17:07 PM OC 20, 22 TRACE 12:34 TYPE WWW DET P NNNI Mkr1 2:480 2 GH 1.090 dBs
RL RF 50 £ enter Freq 13.2650 Ref Offset 2.4 Ref 12.40 c dB/div Ref 12.40 c Ref 12.40 c 7.6 1 60 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 7.7 7.7 7.8 7.7 7.7 7.8 7.7 7.7 7.8 7.7 7.7 7.9 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7 <td>AC C</td> <td>SENSE PNO: Fast ↔ Tr Gain:Low ##</td> <td>INT</td> <td>480MHz E Align auto #Avg Typ</td> <td>e: RMS 10/10</td> <td>12:17:07 PMoet 20, 20 TRACE 12:34 TYPE WWWW DET PNNN Mkr1 2,480 2 GH 1.090 dBi</td>	AC C	SENSE PNO: Fast ↔ Tr Gain:Low ##	INT	480MHz E Align auto #Avg Typ	e: RMS 10/10	12:17:07 PMoet 20, 20 TRACE 12:34 TYPE WWWW DET PNNN Mkr1 2,480 2 GH 1.090 dBi
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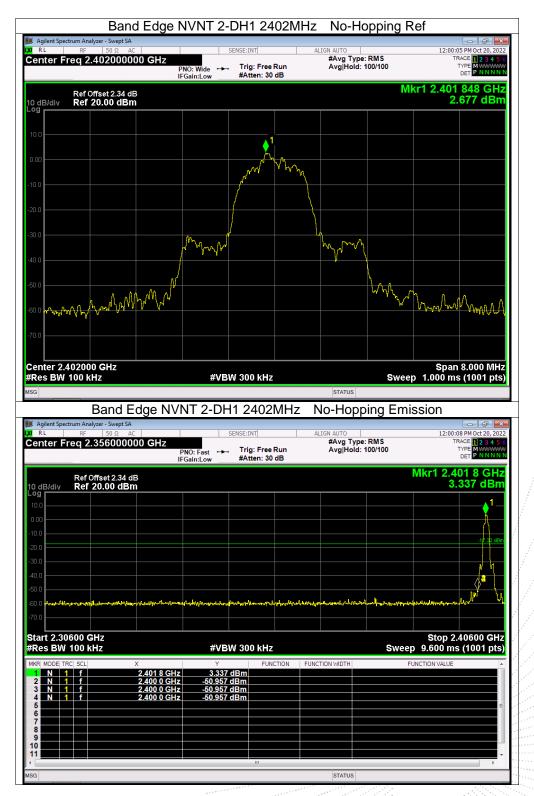




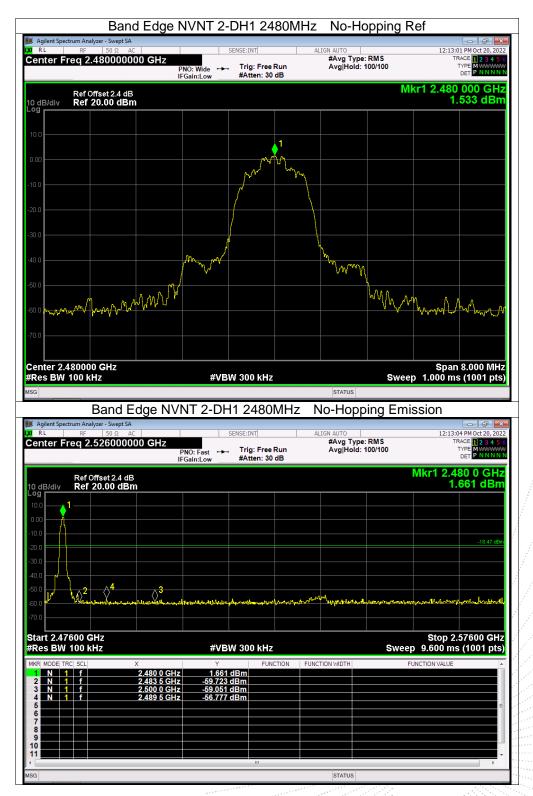








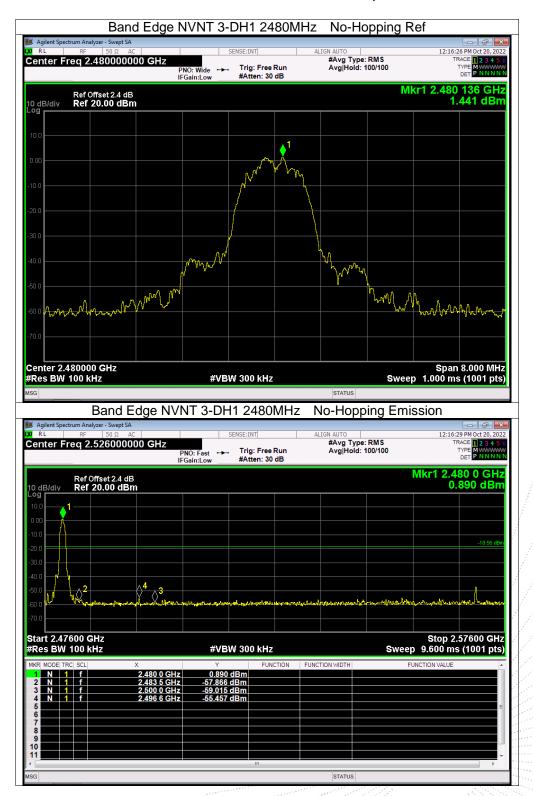




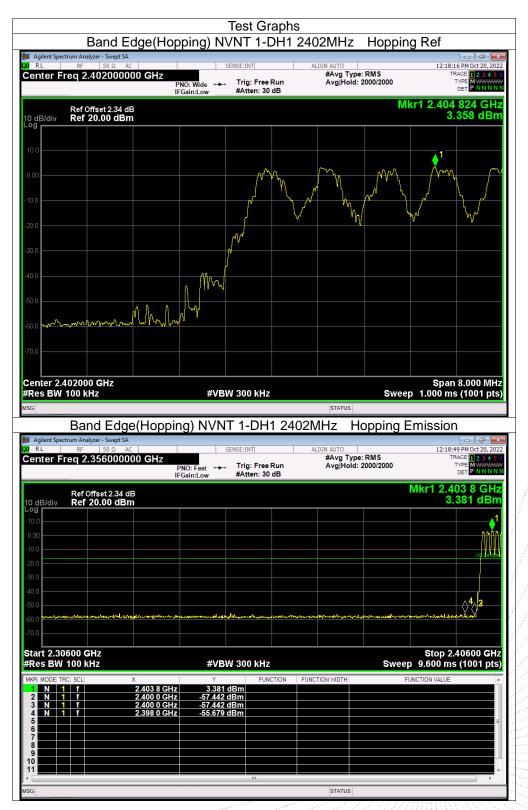


RL RF 50 Ω enter Freq 2.40200	00000 GHz	SENSE:IN		GN AUTO #Avg Type: R	MS	12:14:11 TRA	PM Oct 20, 202 CE 1 2 3 4 5
			Free Run n: 30 dB	Avg Hold: 10	0/100	D	
Ref Offset 2.3					Mkr	1 2.401	324 GH 97 dBn
dB/div Ref 20.00 c	IBm						
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enter 2.402000 GHz		#) (B)(K) 0.00			•	Span 8 1.000 ms	3.000 MH
Res BW 100 kHz		#VBW 300	КП2		Sweep	1.000 1115	(1001 pts
					a Emio	aion	
Band		IT 3-DH1 24	02MHz N	o-Hoppir	ng Emis		
Agilent Spectrum Analyzer - Swep RL RF 50 Ω	AC AC	IT 3-DH1 24		O-HOPPIR	•	12:14:14	PM Oct 20, 20
Agilent Spectrum Analyzer - Swep RL RF 50 Ω	ot SA AC 100000 GHz PN	SENSE:IN		o-Hoppir	MS	12:14:14	PM Oct 20, 202
Banc Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.35600	AC AC DOOOO GHZ PN IFG	SENSE:IN O:Fast ↔ Trig:	Free Run	O-HOPPII GN AUTO #Avg Type: R	MS 0/100	12:14:14 TRA TY D kr1 2.40	PM Oct 20, 203 CE 1 2 3 4 5 PE MWWWW ET P NNNN 1 9 GH
Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.35600 Ref Offset 2.3 0 dB/div Ref 20.00 0	AC A	SENSE:IN O:Fast ↔ Trig:	Free Run	O-HOPPII GN AUTO #Avg Type: R	MS 0/100	12:14:14 TRA TY D kr1 2.40	PM Oct 20, 203 CE 1 2 3 4 5 PE MWWWW ET P NNNN 1 9 GH
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Banc Agilent Spectrum Analyzer - Sweg RL RF 50 Ω enter Freq 2.35600 Sector Ref 20.00 c 0 dB/div Ref 20.00 c 0 0 0 0	AC A	SENSE:IN O:Fast ↔ Trig:	Free Run	O-HOPPII GN AUTO #Avg Type: R	MS 0/100	12:14:14 TRA TY D kr1 2.40	PM Oct 20, 203 CE 1 2 3 4 5 PE MWWWW ET P NNNN 1 9 GH
Rt RF 50 Ω odd/div Ref Offset 2.3 0 d 0 dB/div Ref 20.00 d 0 0 dB/div Ref 20.00 d 0	AC A	SENSE:IN O:Fast ↔ Trig:	Free Run	O-HOPPII GN AUTO #Avg Type: R	MS 0/100	12:14:14 TRA TY D kr1 2.40	PM Oct 20, 202 CE 1 2 3 4 5 PE MWWWW ET P NNNN 1 9 GH
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Edition: A.5



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Ref Offset dB/div Ref 20.0	: 2.4 dB		Trig: Free Run #Atten: 30 dB	Avg Hol	d: 2000/2000	Ikr1 2.476 8 GH
Ref Offset	: 2.4 dB		Trig: Free Run #Atten: 30 dB	Avg Hol	d: 2000/2000	Ikr1 2.476 8 GH
Ref Offset dB/div Ref 20.0	: 2.4 dB		Trig: Free Run #Atten: 30 dB	Avg Hol	d: 2000/2000	Ikr1 2.476 8 GH
B/div Ref Offset Ref 20.0 9 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	: 2.4 dB		Trig: Free Run #Atten: 30 dB		d: 2000/2000	Ikr1 2.476 8 GH 1.892 dB
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Ref Offset Ref 20.0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24 dB 0 dBm	#VBW	#Atten: 30 dB	Avg Hol	d: 2000/2000	Ikr1 2.476 8 GF 1.892 dB



Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freg 2.40200	AC	SENSE		ALIGN AUTO #Avg Typ	Hopping e: RMS	12:23:49	PM Oct 20, 20
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Band Ec Agilent Spectrum Analyzer - Swep RL RF 50 Ω	AC 0000 GHz	ng) NVNT 2	INT	02MHz H ALIGN AUTO #Avg Typ		12:24:22	PM Oct 20, 20 E 1 2 3 4 5 FE M
Band Ec	AC AC 10000 GHz IF	SENSE		02MHz H ALIGN AUTO #Avg Typ	e: RMS : 2000/2000	12:24:22 F TRAC TYF DE	PM Oct 20, 20 DE 1 2 3 4 5 PE M ET P N N N 1
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RL RF 50 Ω enter Freq 2.48000	P		Free Run n: 30 dB	#Avg Type: Avg Hold: 2	RMS 2000/2000	т	18 PM Oct 20, 2 RACE 1 2 3 4 TYPE MWWW DET P N N N
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω	pt SA	SENSE:INT	ALIGN AUT		12:31:15 PM Oct 20
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Agilent Spectrum Analyzer - Swep RL RF 50 Ω enter Freq 2.35600 Ref Offset 2.3 dB/div Ref 20.00 0	AC AC PNO IFGai 34 dB	SENSE:INT	ALIGN AUT #Avg ee Run Avg	ro g Type: RMS	12:31:15 PM Oct 20
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Agilent Spectrum Analyzer - Swei R.L RF 50 Ω enter Freq 2.35600 Ref Offset 2.3 dB/div Ref 20.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AC AC AC PNO IFGai 34 dB dBm X 2.402 8 GHz 2.400 0 GHz	SENSE:INT Fast →→ Trig: Fri n:Low #Atten: #VBW 300 kH Y F 3.036 dBm -55.616 dBm	ALIGN AUT #Avg 30 dB	g Type: RMS Hold: 2000/2000	Contraction of the second seco
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Agilent Spectrum Analyzer - Swei RL RF 50 Ω enter Freq 2.35600 Ref Offset 2.3 dB/div Ref 20.00 0 Ref	AC AC D00000 GHz PNO IFGai 34 dB dBm	East → Trig: Fr n:Low #Atten: #VBW 300 kH Y F <u>3.036 dBm</u> -55.615 dBm	ALIGN AUT #Avg 30 dB	g Type: RMS Hold: 2000/2000	Contraction of the second seco



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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.

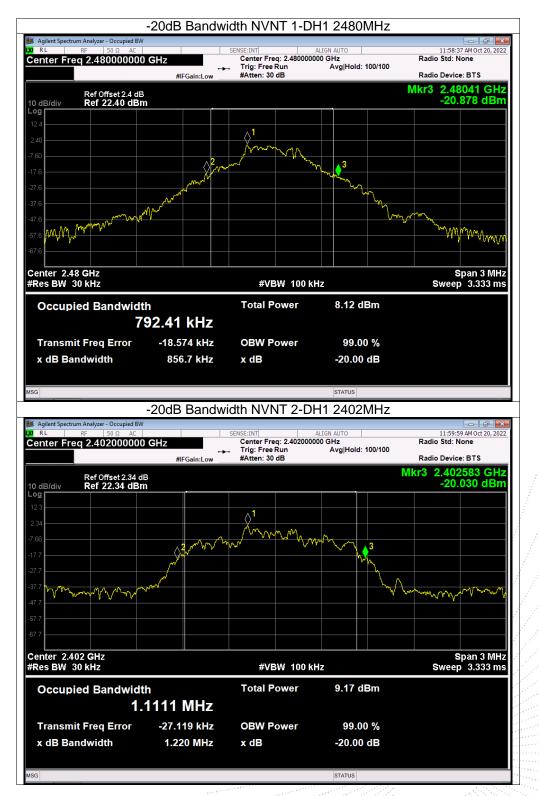
10.4 Test Result

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH1	2402	0.873	Pass
NVNT	1-DH1	2441	0.864	Pass
NVNT	1-DH1	2480	0.857	Pass
NVNT	2-DH1	2402	1.220	Pass
NVNT	2-DH1	2441	1.265	Pass
NVNT	2-DH1	2480	1.213	Pass
NVNT	3-DH1	2402	1.195	Pass
NVNT	3-DH1	2441	1.207	Pass
NVNT	3-DH1	2480	1.197	Pass

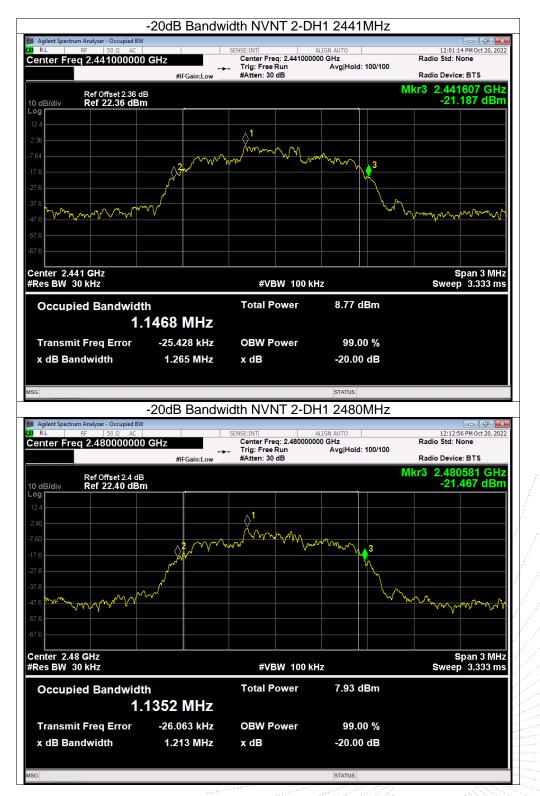








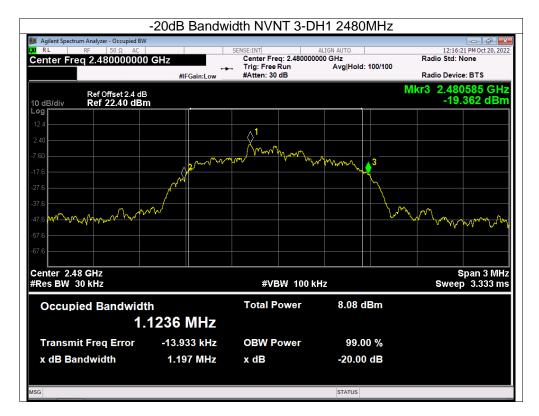












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11. Maximum Peak Output Power

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.

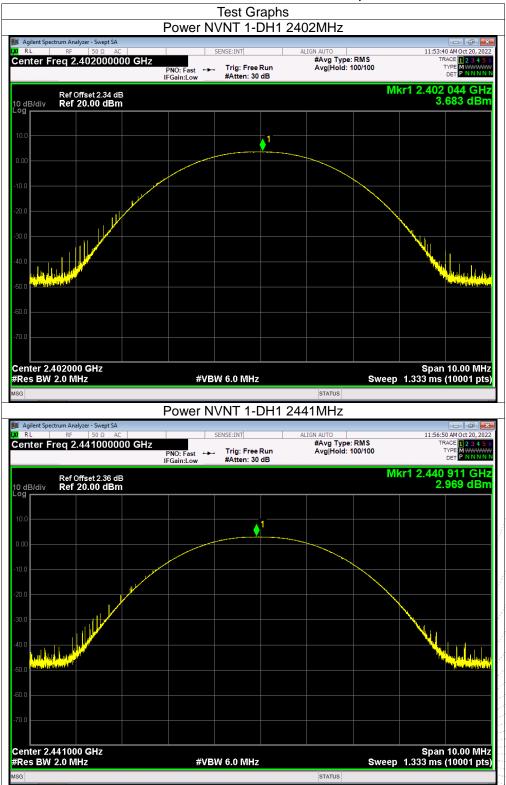
2. Set the spectrum analyzer: RBW = 3MHz. VBW = 3MHz. Sweep = auto; Detector Function = Peak.

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

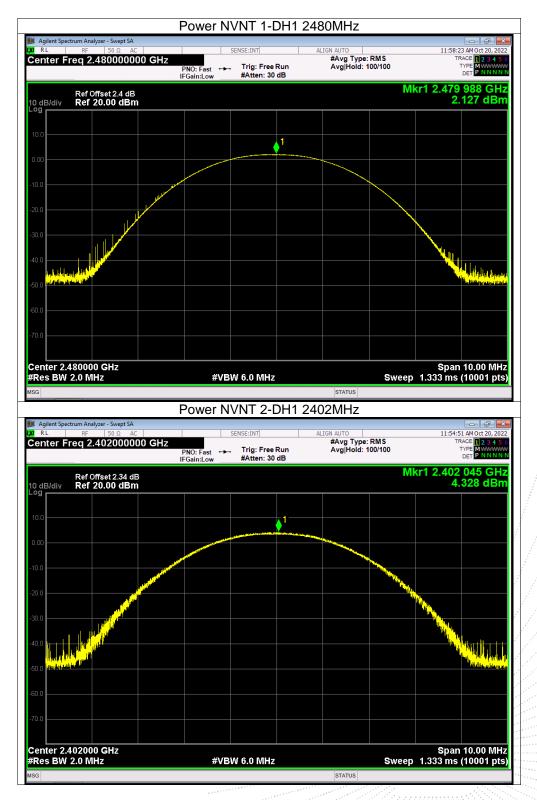
11.4 Test Result

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH1	2402	3.68	21	Pass
NVNT	1-DH1	2441	2.97	21	Pass
NVNT	1-DH1	2480	2.13	21	Pass
NVNT	2-DH1	2402	4.33	21	Pass
NVNT	2-DH1	2441	3.61	21	Pass
NVNT	2-DH1	2480	2.80	21	Pass
NVNT	3-DH1	2402	4.86	21	Pass
NVNT	3-DH1	2441	4.28	21	Pass
NVNT	3-DH1	2480	3.51	21	Pass

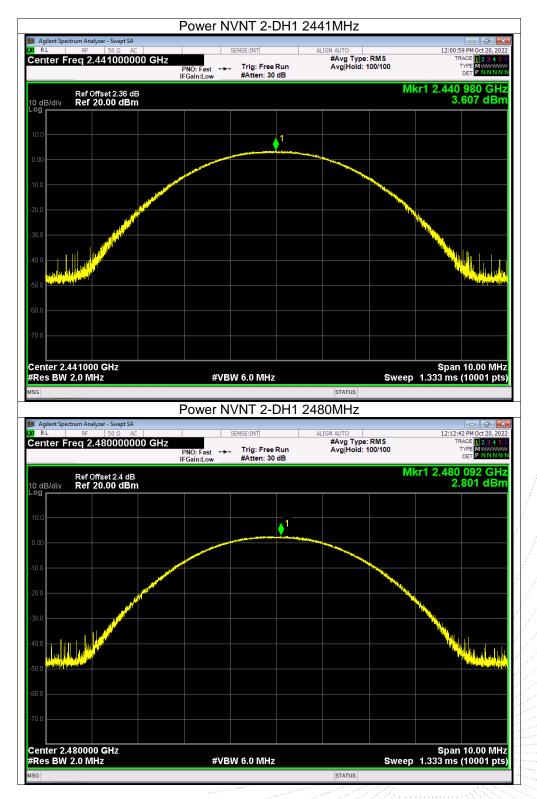




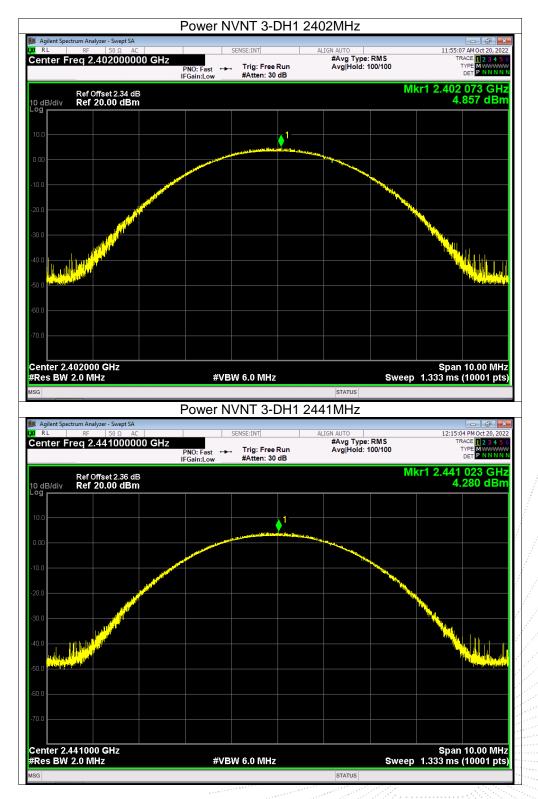
















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12. Hopping Channel Separation

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	2401.960	2402.960	1.000	0.873	Pass
NVNT	1-DH1	2440.818	2441.818	1.000	0.864	Pass
NVNT	1-DH1	2478.816	2479.814	0.998	0.857	Pass
NVNT	2-DH1	2401.814	2402.822	1.008	0.813	Pass
NVNT	2-DH1	2440.816	2441.816	1.000	0.843	Pass
NVNT	2-DH1	2478.816	2479.816	1.000	0.809	Pass
NVNT	3-DH1	2401.820	2402.814	0.994	0.797	Pass
NVNT	3-DH1	2440.816	2441.814	0.998	0.805	Pass
NVNT	3-DH1	2478.864	2479.864	1.000	0.798	Pass

12.4 Test Result

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		CFS NVN	T 1-DH1 240	02MHz			
Agilent Spectrum Analyzer - Swe R L RF 50 Ω	AC	SENSE	E:INT	ALIGN AUTO	DMC	12:17:5	9 PM Oct 20, 2022
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enter 2.479500 GH Res BW 30 kHz	łz	#VBW 100 k	Hz		Sweep	Span : 2.133 ms	2.000 MH (1001 pts
KR MODE TRC SCL	Х	Y		FUNCTION WIDTH		CTION VALUE	
1 N 1 f 2 N 1 f 3	2.478 816 GHz 2.479 816 GHz	-0.624 dBm -0.584 dBm					
4 5							
6 							
8							
0							



Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC	SENSE:INT	ALIGN AUTO	12:30:26 PM Oct 20, 202
enter Freq 2.402500000 GHz	PNO: Wide Trig: Free Run	#Avg Type: RMS Avg Hold:>100/100	TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N N
	IFGain:Low #Atten: 30 dB		-
Ref Offset 2.34 dB) dB/div Ref 20.00 dBm		MK	r1 2.401 820 GH 0.851 dBn
		*2	
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enter 2.402500 GHz			Span 2.000 MH
Res BW 30 kHz	#VBW 100 kHz	Sweep	2.133 ms (1001 pts
KR MODE TRC SCL X 1 N 1 f 2.401 820 GH;	Y FUNCTION z 0.851 dBm	FUNCTION WIDTH FU	NCTION VALUE
2 N 1 f 2.402 814 GH:	z 0.988 dBm		
4 5 6			
8			
9			
			•
3		STATUS	
Agilent Spectrum Analyzer - Swept SA	CFS NVNT 3-DH1	2441MHz	
RL RF 50 Ω AC enter Freg 2.441500000 GHz	SENSE:INT	ALIGN AUTO #Avg Type: RMS	12:32:34 PM Oct 20, 20 TRACE 1 2 3 4 5
	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	Avg Hold:>100/100	DET PNNN
Ref Offset 2.36 dB		Mk	r1 2.440 816 GH
odB/div Ref 20.00 dBm			0.461 dBn
		2 ²	
			m
0.0			
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0.0			
enter 2.441500 GHz Res BW 30 kHz	#VBW 100 kHz	Sweep	Span 2.000 MH 2.133 ms (1001 pts
KR MODE TRC SCL X	Y FUNCTION		NCTION VALUE
1 N 1 f 2.440 816 GH; 2 N 1 f 2.441 814 GH;	z 0.461 dBm z 0.409 dBm		
3 4 5 5 6			
6 1 7 1 1 1 1 1 1 1 1 1 1			
8			
9			



	CFS NVNT 3-DH1 2	480MHz	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Q AC Center Freq 2.479500000 GHz	PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB	ALIGN AUTO #Avg Type: RMS Avg Hold:>100/100	12:34:14 PM Oct 20, 202 TRACE 1 2 3 4 5 TYPE MWWWW DET P NNNN
Ref Offset 2.4 dB 10 dB/div Ref 20.00 dBm		Mk	r1 2.478 864 GHz -2.029 dBm
-20.0 -30.0 -40.0 -50.0	Manana		
-60.0 -70.0 Center 2.479500 GHz #Res BW 30 kHz MKR MODE TRC SCL X	#VBW 100 kHz	-	Span 2.000 MH: 2.133 ms (1001 pts
MRR MODE TRC SCL X 1 N 1 f 2.478 864 G 2 N 1 f 2.478 864 G 4 5 6 6 9 9 10 1 1	Hz -2.029 dBm	FUNCTION WIDTH FU	RUTION VALUE
∢	m	STATUS	1

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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



Agilent Spectrum Analyzer - Sw RL RF 50 9	Ω ΑC		SENSE:INT	A	LIGN AUTO #Avg Type:	RMS	12:20	:31 PM Oct 20, 20
enter Freq 2.4417	50000 GHZ	PNO: Fast	Trig: Free #Atten: 30		#Avg Type: Avg Hold:>			TYPE MWWW DET PNNN
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art 2.40000 GHz							Stop 2	2.48350 GH
Res BW 100 kHz	X	#VB	W 300 kHz		CTION WIDTH		p 8.000 m	is (1001 pts
1 N 1 f 2 N 1 f	2.401 920 5 GH 2.479 826 0 GH	z 2.451 z 1.726	dBm					
3 4 5								
6 7								
9								
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3								
	Ho	nning No		2-DH1	STATUS	17		
	ept SA	pping No			2441M⊦	łz	12:22	
RL RF 50 9	ept SA Ω AC		SENSE:INT	Run		RMS	12:27	1:17 PM Oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWWW DET P N N N
RL RF 50 5 enter Freq 2.4417 Ref Offset 2	ept SA Ω AC 50000 GHz .36 dB	PNO: Fast	SENSE:INT	Run	2441MH	: RMS 100/100	1 2.401 (17 PM Oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N
RL RF 50 9 enter Freq 2.4417 Ref Offset 2 Ref Offset 2 Ref 20.00	ept SA Ω AC 50000 GHz .36 dB	PNO: Fast	SENSE:INT	Run	2441MH	: RMS 100/100	1 2.401 (17 PM Oct 20, 20
RL RF 50 5 enter Freq 2.4417 Ref Offset 2 dB/div Ref 20.00	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 5 enter Freq 2.4417 Ref Offset 2 dB/div Ref 20.00	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 f enter Freq 2.4417 dB/div Ref 20.00	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 9 enter Freq 2.4417 dB/div Ref 20.00 g hhttp://www.holds.com/ ab/div Ref 20.00	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 f enter Freq 2.4417 Ref Offset 2 GB/div dB/div Ref 20.00 9 0 1 1 1 00 1 1 1 1 00 1 1 1 1 1 00 1	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 / enter Freq 2.4417 Ref Offset 2 Ref 20.00 0	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low	SENSE:INT Trig: Free #Atten: 30	Run dB	2441MH #Avg Type: Avg Hold:>	: RMS 100/100 Mkr	1 2.401 (-3 MMMMM	12 PMOt 20, 20 TRACE 12 23 4 5 TYPE MININ 503 0 GH 5,716 dBn
RL RF 50 / 50 / 50 / 50 / 50 / 50 / 50 / 50 /	ept SA 2 AC 50000 GHz 36 dB dBm 40 M 40 M	PNO: Fast IFGain:Low	SENSE:INT	ու Aun AB	2441MH #Avg Type: Avg Hold:>	RMS 100/100 Mkr	1 2.401 (-3 MMMMM MMMM Stop 2 p 8.000 m	17 PM oct 20, 20 TRACE 1 2 3 4 5 TYPE MWWW DET P N N N N 503 0 GH
RL RF 50 g enter Freq 2.4417 Ref Offset 2 Ref 20.00 0 1 1 1 00 1 1 1 1 00 1 1 1 1 1 00 1 <td>ept SA 2 AC 50000 GHz 336 dB dBm</td> <td>PNO: Fast IFGain:Low WWWWWWWW WWWWWWWWW WWWWWWWWWWW WWWWWWW</td> <td>SENSE:INT</td> <td>ու Aun AB</td> <td>2441MH #Avg Type: Avg Hold:></td> <td>RMS 100/100 Mkr</td> <td>1 2.401 (-3 MMMM Stop 2</td> <td>12 PMOCt 20, 20 TRACE 12 3 4 5 TYPE MININ 503 0 GH 5716 dBr 716 dBr 716 dBr</td>	ept SA 2 AC 50000 GHz 336 dB dBm	PNO: Fast IFGain:Low WWWWWWWW WWWWWWWWW WWWWWWWWWWW WWWWWWW	SENSE:INT	ու Aun AB	2441MH #Avg Type: Avg Hold:>	RMS 100/100 Mkr	1 2.401 (-3 MMMM Stop 2	12 PMOCt 20, 20 TRACE 12 3 4 5 TYPE MININ 503 0 GH 5716 dBr 716 dBr 716 dBr
RL RF 50 / 50 / 50 / 50 / 50 / 50 / 50 / 50 /	ept SA 2 AC 50000 GHz 36 dB dBm 40000 GHz 2 401 503 0 GH	PNO: Fast IFGain:Low WWWWWWWW WWWWWWWWWW WWWWWWWWWWWW WWWWWW	SENSE:INT	ու Aun AB	2441MH #Avg Type: Avg Hold:>	RMS 100/100 Mkr	1 2.401 (-3 MMMMM MMMM Stop 2 p 8.000 m	12 PMOCt 20, 20 TRACE 12 3 4 5 TYPE MININ 503 0 GH 5716 dBr 716 dBr 716 dBr
Ref Offset 2 Ref 20.00	ept SA 2 AC 50000 GHz 36 dB dBm 40000 GHz 2 401 503 0 GH	PNO: Fast IFGain:Low WWWWWWWW WWWWWWWWW WWWWWWWWWWW WWWWWWW	SENSE:INT	ու Aun AB	2441MH #Avg Type: Avg Hold:>	RMS 100/100 Mkr	1 2.401 (-3 MMMMM MMMM Stop 2 p 8.000 m	12 PMOCt 20, 20 TRACE 12 3 4 5 TYPE MININ 503 0 GH 5716 dBr 716 dBr 716 dBr



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9 10 11															

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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).

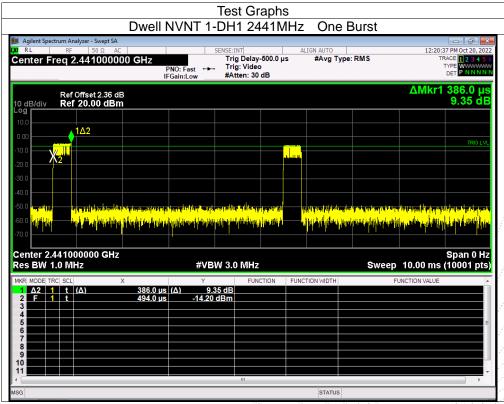
DH1 Packet permit maximum 1600 / 79 /2 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the Dwell Time can be calculated as follows:

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.	

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Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.386	123.520	400	Pass
NVNT	1-DH3	2441	1.645	263.200	400	Pass
NVNT	1-DH5	2441	2.890	308.267	400	Pass
NVNT	2-DH1	2441	0.395	126.400	400	Pass
NVNT	2-DH3	2441	1.651	264.160	400	Pass
NVNT	2-DH5	2441	2.895	308.800	400	Pass
NVNT	3-DH1	2441	0.400	128.000	400	Pass
NVNT	3-DH3	2441	1.647	263.520	400	Pass
NVNT	3-DH5	2441	2.897	309.013	400	Pass





	Dwell NVNT 1	-DH3 2441M	Hz One E	Burst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.44100000	00 GHz PNO: Fast ↔	SENSE:INT Trig Delay-500.0 µs . Trig: Video	ALIGN AUTO #Avg Type:	RMS	12:35:25 PM Oct 20, 20 TRACE 1 2 3 4 5 TYPE WWWWW DET P NNNN
Ref Offset 2.36 dl		#Atten: 30 dB			ΔMkr1 1.645 m 8.53 dl
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enter 2.441000000 GHz es BW 1.0 MHz		W 3.0 MHz		Sweep	Span 0 H 10.00 ms (10001 pt
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		III			

	Dwell NVNT 1-DH	l5 2441MHz	One Burst	
I Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC Center Freq 2.44100000	0 GHz Tri PNO East ↔ Tri	INT AL ig Delay-500.0 μs ig: Video tten: 30 dB	IGN AUTO #Avg Type: RMS	12:36:11 PM Oct 20, 20 TRACE 1 2 3 4 TYPE WWWW DET P. N.N.
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	X Y		FION WIDTH F	UNCTION VALUE
1 Δ2 1 t (Δ) 2 F 1 t 3	2.890 ms (Δ) 5.89 dB 494.0 μs -13.41 dBm			
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7 8 9				
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	Dwell N	IVNT 2-DH	I1 2441M	Hz One	Burst		
Agilent Spectrum Analyzer - Swept SA R L RF 50 Ω AC		SENSE:	INT	ALIGN AUTO		12:27:23 PM Oct 2	
enter Freq 2.44100000	PN	Tri NO:East ⊶ Tri	ig Delay-500.0 μs ig: Video tten: 30 dΒ		pe: RMS	TRACE 12 TYPE WHA DET P N	345 AMWW
Ref Offset 2.36 dE 0 dB/div Ref 20.00 dBm						ΔMkr1 395.0 0.18	
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<			m	STATUS			F



	Dwell NVNT 2-D	DH5 2441MH	lz One B	urst	
Agilent Spectrum Analyzer - Swept SA RL RF 50 Ω AC enter Freq 2.4410000		NSE:INT Trig Delay-500.0 µs Trig: Video #Atten: 30 dB	ALIGN AUTO #Avg Type: F	RMS	12:37:42 PM Oct 20, 2 TRACE 1 2:34 TYPE WWWW DET P NN N
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0.0 0.0 enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL 1 Δ2 1 t (Δ) 2 F 1 t 3 4 5 6	#VBW ۲2.895 ms (Δ) 4.31	3.0 MHz		Sweep	Span 0 H 10.00 ms (10001 pt
1 Δ2 1 t (Δ) 2 F 1 t 3 - - - 4 - - -	#VBW ۲2.895 ms (Δ) 4.31	3.0 MHz		Sweep	Span 0 H 10.00 ms (10001 pt
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07



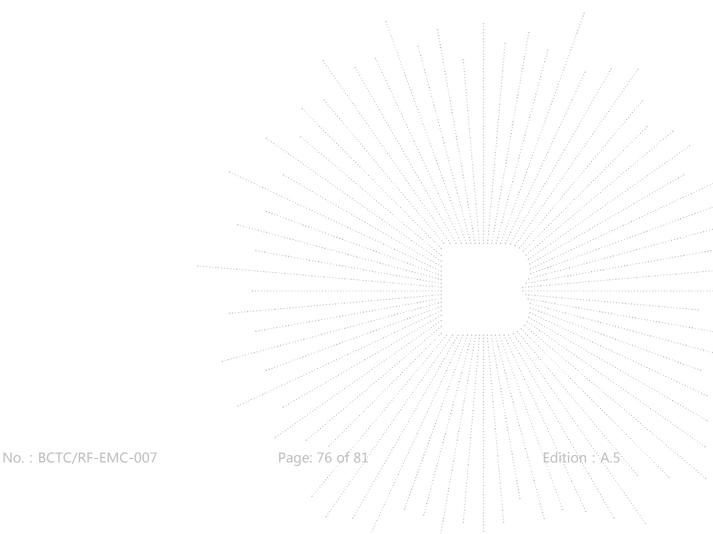
15. Antenna Requirement

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 PCB antenna, fulfill the requirement of this section.





16. EUT Photographs

EUT Photo





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NOTE: Appendix-Photographs Of EUT Constructional Details

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17. EUT Test Setup Photographs

Conducted emissions



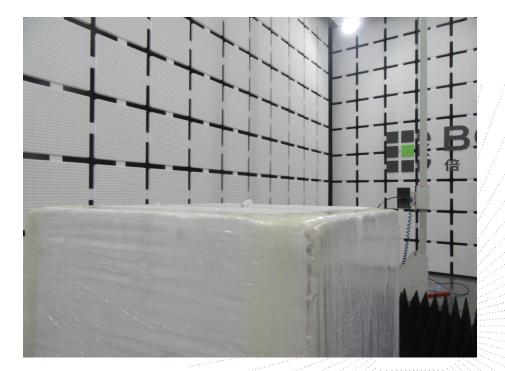
No.: BCTC/RF-EMC-007

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Radiated Measurement Photos





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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 the "special seal for inspection and testing".

4. The test report is invalid without the signature of the approver.

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

6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.

7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.

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

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

Address:

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P.C.: 518103

FAX: 0755-33229357

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

***** END *****

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