FCC TEST REPORT
FCC ID:2BDXI-BACH08

Report Number.....:	ZKT-240712L8109
Date of Test.....	Jul. 04, 2024 to Aug. 08, 2024
Date of issue.....:	Aug. 08, 2024
Total number of pages.....	141
Test Result .....:	PASS
Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address .....:	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's name :	**Bach Audio (Shenzhen) Co., LTD**
Address .....:	928 Room，9th Floor, Building B, Tianhui Building, Donghuan 1st Road, Longhua Street, Longhua Dist.,Shenzhen,Guangdong,China
Manufacturer's name .....:	**Bach Audio (Shenzhen) Co., LTD**
Address .....:	928 Room，9th Floor, Building B, Tianhui Building, Donghuan 1st Road, Longhua Street, Longhua Dist.,Shenzhen,Guangdong,China
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 ANSI C63.10:2013
Test procedure.....:	/
Non-standard test method .....:	N/A
Test Report Form No.....:	TRF-EL-111_V0
Test Report Form(s) Originator.....:	ZKT Testing
Master TRF .....:	Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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Product name.....:	**Free OpenFit**
Trademark .....:	BACHJOHANN
Model/Type reference.....:	BACH08
Ratings.....:	DC 3.7V from Battery & DC 5V From USB port

Testing procedure and testing location:

Testing Laboratory.....:	**Shenzhen ZKT Technology Co., Ltd.**
Address..... :	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Tested by (name + signature)..... :	Alen He
Reviewer (name + signature).....:	Joe Liu
Approved (name + signature)..... :	Lake Xie

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1. VERSION

Report No.	Version	Description	Approved
ZKT-240712L8109	Rev.01	Initial issue of report	Aug. 08, 2024

2. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C KDB558074 D0115.247 Meas Guidancev05r02			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna Requirement	PASS	
15.207	AC Power Line Conducted Emission	PASS	
15.247 (b)(1)	Conducted Peak Output Power	PASS	
15.247 (a)(1)	20dB Occupied Bandwidth 99% OCB	PASS	
15.247 (a)(1)	Carrier Frequencies Separation	PASS	
15.247 (a)(1)(iii)	Hopping Channel Number	PASS	
15.247 (a)(1)(iii)	Dwell Time	PASS	
15.205/15.209	Radiated Emission and Restricted Band	PASS	
15.247(d)	Conducted Unwanted emissions and Band Edge	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.
Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225
Designation Number: CN1299
IC Registered No.: 27033

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2，providing a level of confidence of approximately 95 %。

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power conducted	±0.16dB
3	Spurious emissions conducted	±0.21dB
4	All emissions radiated(<1G)	±4.68dB
5	All emissions radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Applicant:	Bach Audio (Shenzhen) Co., LTD
Address of applicant:	928 Room， 9th Floor, Building B, Tianhui Building, Donghuan 1st Road, Longhua Street, Longhua Dist.,Shenzhen,Guangdong,China
Manufacturer:	Bach Audio (Shenzhen) Co., LTD
Address of manufacturer:	928 Room， 9th Floor, Building B, Tianhui Building, Donghuan 1st Road, Longhua Street, Longhua Dist.,Shenzhen,Guangdong,China
Product Name:	Free OpenFit
Model No.:	BACH08
Model Different.:	N/A
Sample ID	N/A
Sample(s) Status:	Engineer sample
Channel numbers:	79
Operation Frequency:	2402MHz~2480MHz
Modulation technology:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Chip Antenna
Antenna gain:	2.78dBi
Power supply:	DC 3.7V from Battery & DC 5V From USB port
Note:	The left and right earphones have same components, while they have different PCB layouts. The two earphones were tested for all test items.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz

15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

All Bluetooth units participating in the piconet are time and hop-synchronized to the channel.
Example of a 79 hopping sequence in data mode:
35, 27, 6, 44, 14, 61, 74, 32, 1, 11, 23, 2, 55, 65, 29, 3, 9, 52, 78, 58, 40, 25, 0, 7, 18, 26, 76, 60, 47, 50, 2, 5, 16, 37, 70, 63, 66, 54, 20, 13, 4, 8, 15, 21, 26, 10, 73, 77, 67, 69, 43, 24, 57, 39, 46, 72, 48, 33, 17, 31, 75, 19, 41, 62, 68, 28, 51, 66, 30, 56, 34, 59, 71, 22, 49, 64, 38, 45, 36, 53, 42
Each Frequency used equally on the average by each transmitter

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Test channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

Note:This EUT supports DH1/DH3/DH5/2DH1/2DH3/2DH5/3DH1/3DH3/3DH5, Only DH5/2DH5/3DH5 record in this report

3.2 Test Setup Configuration

Conducted Emission

AC Mains——— EUT

Radiated Emission

Conducted Spurious EUT

EUT

3.3 Support Equipment

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
/	ADAPTER	/	ADS-5001000C	/	DC 5V/1A

Item	Shielded Type	Ferrite Core	Length	Note

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

3.4 Test Mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.	

Test Software	Test Tool
Power level setup	<7dBm

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation emissions& Radio Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY55370835	A.17.05	Nov. 02, 2023	Nov. 01, 2024
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Nov. 02, 2023	Nov. 01, 2024
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Nov. 02, 2023	Nov. 01, 2024
4	Bilog Antenna (30MHz-1500MHz)	Schwarzbeck	VULB9168	N/A	N/A	Nov. 13, 2023	Nov. 12, 2024
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Nov. 13, 2023	Nov. 12, 2024
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Nov. 13, 2023	Nov. 12, 2024
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Nov. 16, 2023	Nov. 15, 2024
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Nov. 02, 2023	Nov. 01, 2024
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Nov. 02, 2023	Nov. 01, 2024
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Nov. 02, 2023	Nov. 01, 2024
11	Test Cable	N/A	R-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
12	Test Cable	N/A	R-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
13	Test Cable	N/A	R-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
14	Test Cable	N/A	RF-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
15	Test Cable	N/A	RF-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
16	Test Cable	N/A	RF-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
17	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Nov. 02, 2023	Nov. 01, 2024
18	Signal Generator	Agilent	N5182A	N/A	A.01.87	Nov. 02, 2023	Nov. 01, 2024
19	Magnetic Field Probe Tester	Narda	ELT-400	0-0344	N/A	Nov. 16, 2023	Nov. 15, 2024
20	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Nov. 02, 2023	Nov. 01, 2024
21	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
22	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
23	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
24	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\
25	Turntable	MF	MF-7802BS	N/A	N/A	\	\
26	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Nov. 14, 2023	Nov. 13, 2024
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Nov. 02, 2023	Nov. 01, 2024
3	Test Cable	N/A	C-01	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
4	Test Cable	N/A	C-02	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
5	Test Cable	N/A	C-03	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
6	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Nov. 02, 2023	Nov. 01, 2024
7	Triple-Loop Antenna	N/A	RF300	N/A	N/A	Nov. 02, 2023	Nov. 01, 2024
8	Absorbing Clamp	DZ	ZN23201	15034	N/A	Nov. 07, 2023	Nov. 06, 2024
9	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

4. EMC EMISSION TEST

4.1 Conducted emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

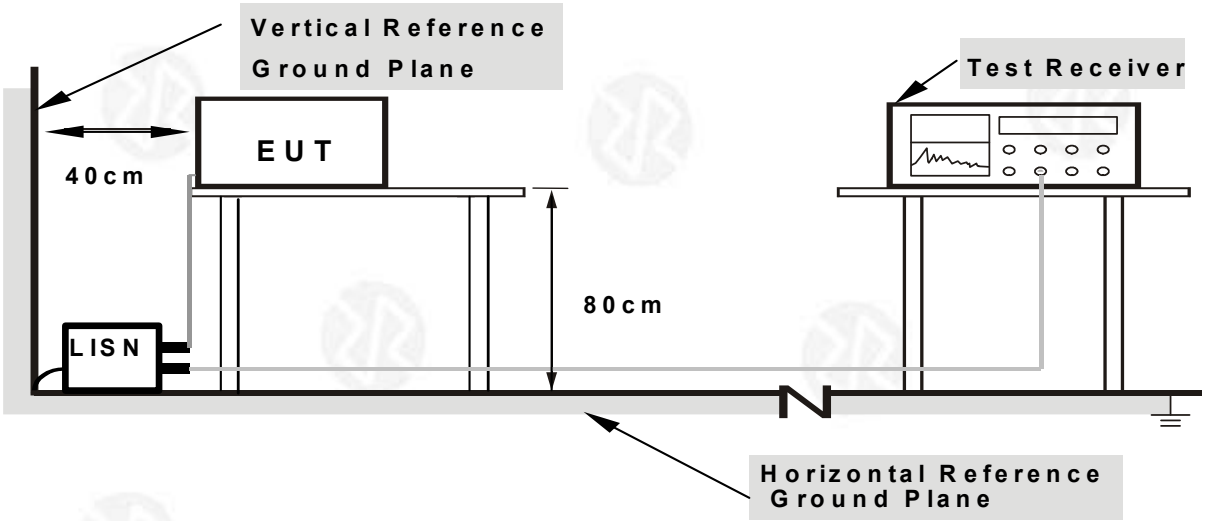
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

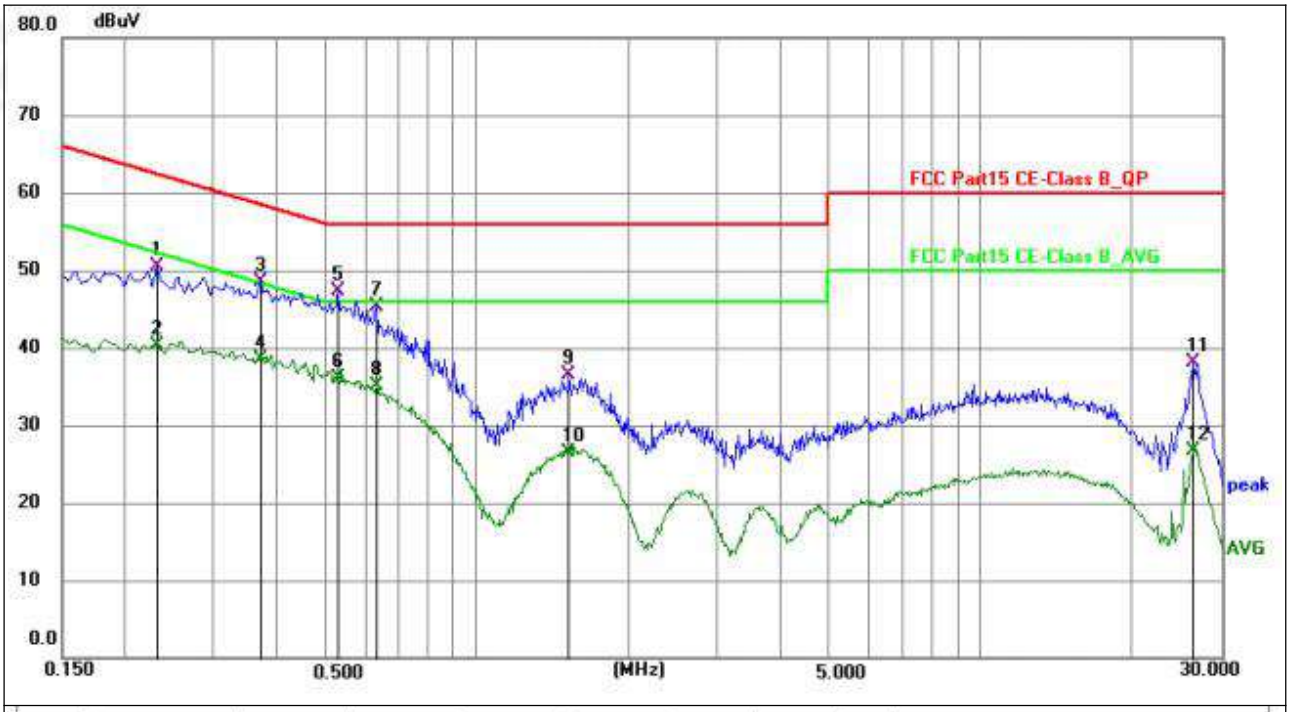
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it).
The Bluetooth doesn't work when the EUT are charging.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 Test Result（Charging mode)

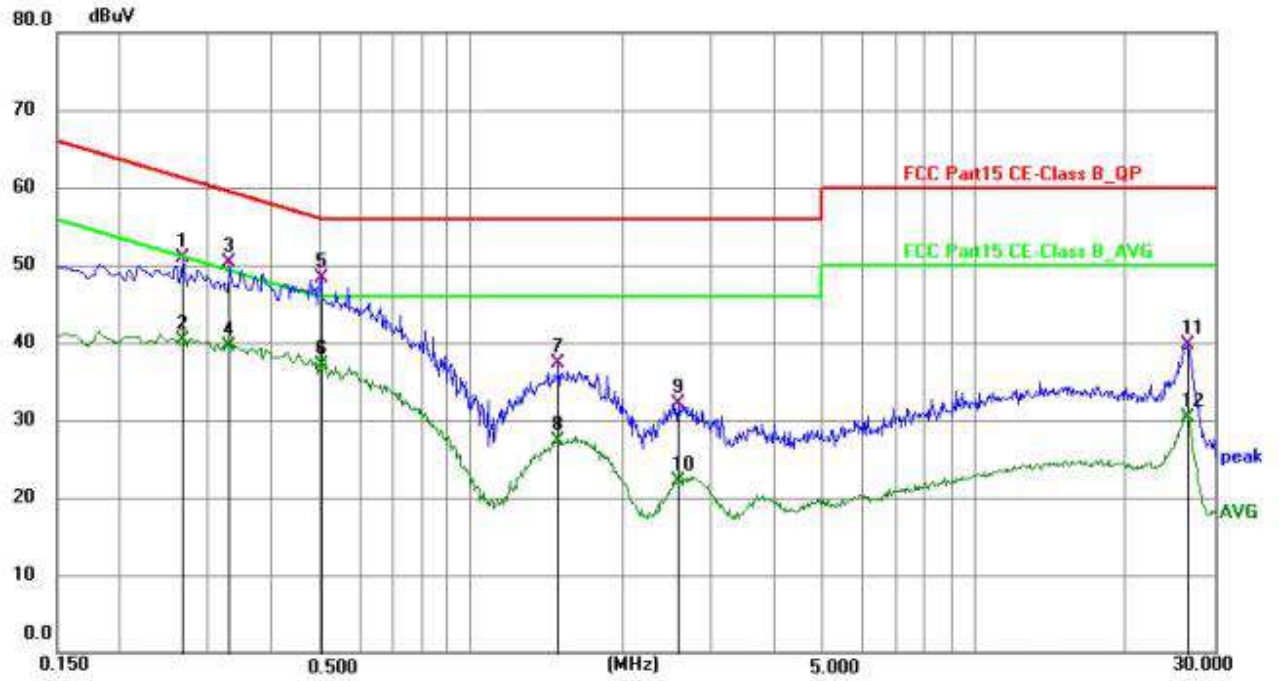
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2310	40.81	9.70	50.51	62.41	-11.90	QP	P	
2	0.2310	30.67	9.70	40.37	52.41	-12.04	AVG	P	
3	0.3704	38.77	9.65	48.42	58.49	-10.07	QP	P	
4	0.3704	28.77	9.65	38.42	48.49	-10.07	AVG	P	
5 *	0.5280	37.60	9.63	47.23	56.00	-8.77	QP	P	
6	0.5280	26.53	9.63	36.16	46.00	-9.84	AVG	P	
7	0.6314	35.65	9.69	45.34	56.00	-10.66	QP	P	
8	0.6314	25.46	9.69	35.15	46.00	-10.85	AVG	P	
9	1.5269	26.80	9.63	36.43	56.00	-19.57	QP	P	
10	1.5269	16.80	9.63	26.43	46.00	-19.57	AVG	P	
11	26.3084	28.46	9.67	38.13	60.00	-21.87	QP	P	
12	26.3084	17.10	9.67	26.77	50.00	-23.23	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2670	41.28	9.69	50.97	61.21	-10.24	QP	P	
2	0.2670	30.55	9.69	40.24	51.21	-10.97	AVG	P	
3	0.3300	40.59	9.67	50.26	59.45	-9.19	QP	P	
4	0.3300	29.76	9.67	39.43	49.45	-10.02	AVG	P	
5 *	0.5010	38.59	9.62	48.21	56.00	-7.79	QP	P	
6	0.5010	27.47	9.62	37.09	46.00	-8.91	AVG	P	
7	1.4910	27.59	9.62	37.21	56.00	-18.79	QP	P	
8	1.4910	17.65	9.62	27.27	46.00	-18.73	AVG	P	
9	2.5889	22.50	9.66	32.16	56.00	-23.84	QP	P	
10	2.5889	12.35	9.66	22.01	46.00	-23.99	AVG	P	
11	26.5830	30.00	9.68	39.68	60.00	-20.32	QP	P	
12	26.5830	20.57	9.68	30.25	50.00	-19.75	AVG	P	

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Mesurement Level = Reading level + Correct Factor

4.2 Radiated emissions

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2013
Test Frequency Range:	9kHz to 25GHz
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

4.2.1 Radiated Emission Limits

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	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).

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.1 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:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

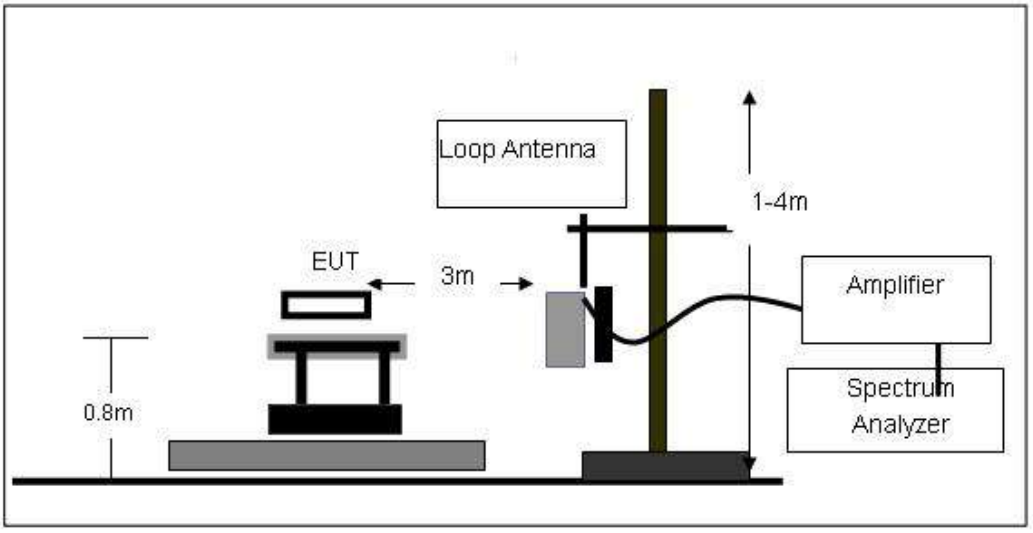
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

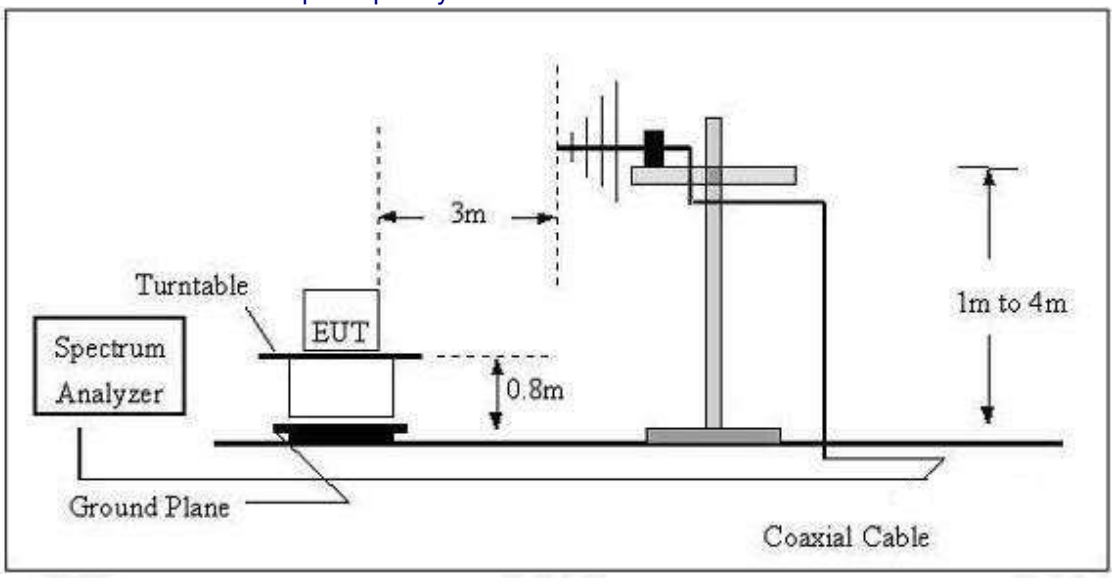
No deviation

4.2.4 TEST SETUP

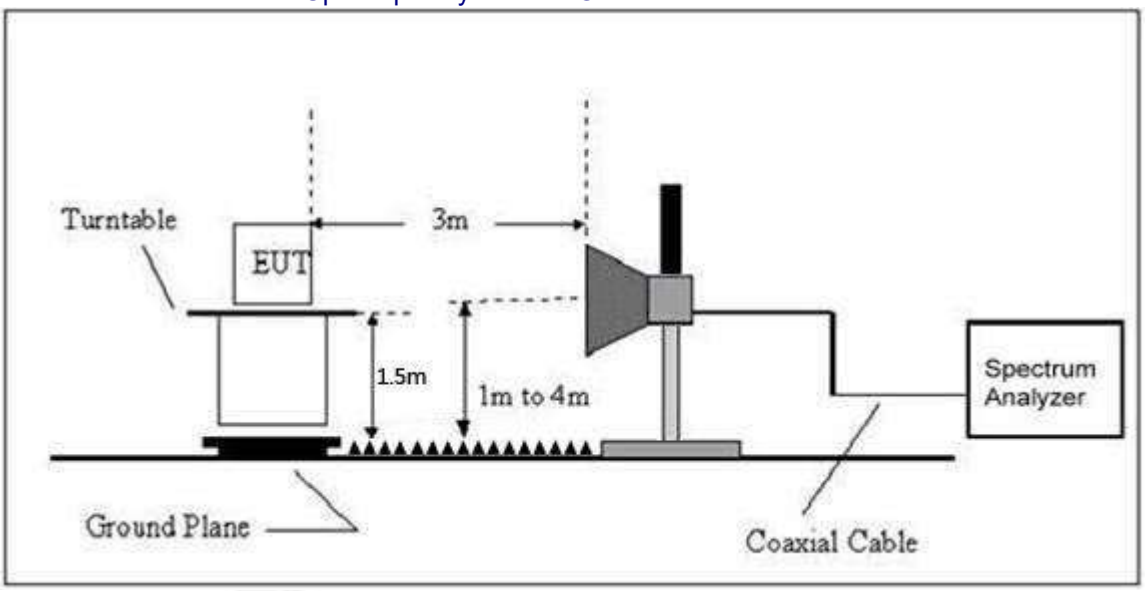
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 TEST RESULTS

Between 9KHz – 30MHz

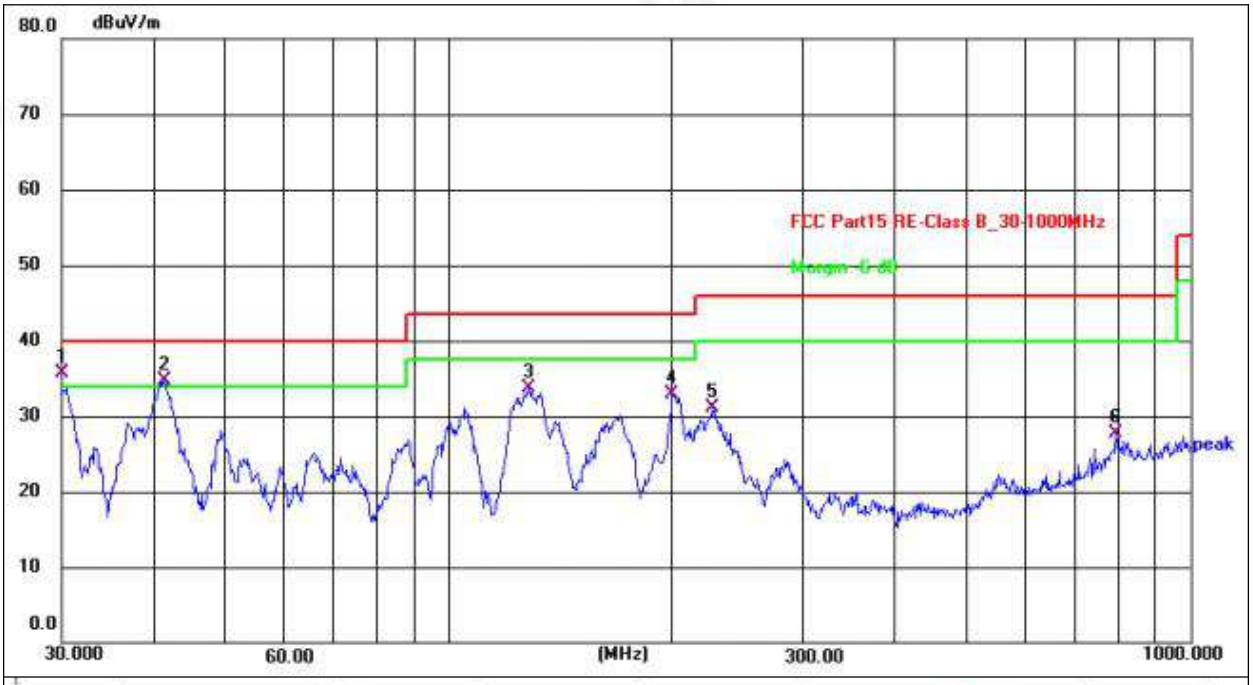
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz（left :Worst case GFSK 2402MHz）

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	40.8445	35.13	-15.74	19.39	40.00	-20.61	QP
2	103.4421	41.33	-19.69	21.64	43.50	-21.86	QP
3	121.9755	44.05	-18.05	26.00	43.50	-17.50	QP
4 *	199.2855	54.76	-19.03	35.73	43.50	-7.77	QP
5	237.4760	54.52	-18.25	36.27	46.00	-9.73	QP
6	275.1570	48.56	-17.02	31.54	46.00	-14.46	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		

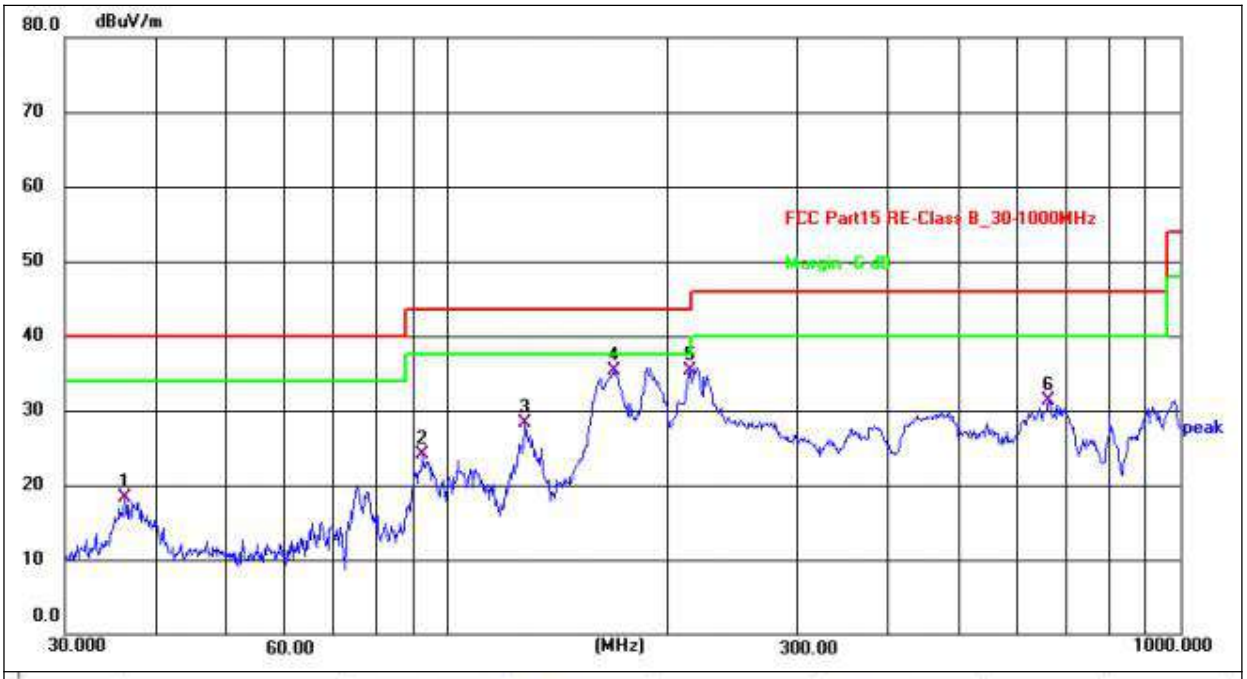


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.0000	53.26	-17.47	35.79	40.00	-4.21	QP
2 !	41.2765	50.46	-15.77	34.69	40.00	-5.31	QP
3	128.1130	51.49	-17.73	33.76	43.50	-9.74	QP
4	199.9855	52.03	-19.06	32.97	43.50	-10.53	QP
5	226.8935	49.90	-18.87	31.03	46.00	-14.97	QP
6	793.3960	32.40	-4.60	27.80	46.00	-18.20	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case GFSK mode

（right :Worst case GFSK 2402MHz）

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.2540	34.52	-16.25	18.27	40.00	-21.73	QP
2	92.4624	44.13	-20.11	24.02	43.50	-19.48	QP
3	127.6645	46.13	-17.76	28.37	43.50	-15.13	QP
4	168.4137	51.63	-16.33	35.30	43.50	-8.20	QP
5 *	213.7632	54.58	-19.20	35.38	43.50	-8.12	QP
6	661.1503	38.83	-7.51	31.32	46.00	-14.68	QP

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	31.1797	51.38	-17.22	34.16	40.00	-5.84	QP
2	39.7146	48.05	-15.74	32.31	40.00	-7.69	QP
3	52.0251	47.94	-16.77	31.17	40.00	-8.83	QP
4	97.7980	56.25	-20.03	36.22	43.50	-7.28	QP
5	214.5141	56.05	-19.21	36.84	43.50	-6.66	QP
6	857.0244	35.03	-4.21	30.82	46.00	-15.18	QP

Remarks:
1.Final Level =Receiver Read level + Antenna Factor + Cable Loss
2.The emission levels of other frequencies are very lower than the limit and not show in test report.
3.The test data shows only the worst case GFSK mode

1GHz~25GHz(left）

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	53.18	30.55	5.77	24.66	53.06	74.00	-20.94	Pk
V	4804.00	43.02	30.55	5.77	24.66	42.90	54.00	-11.10	AV
V	7206.00	54.51	30.33	6.32	24.55	55.05	74.00	-18.95	Pk
V	7206.00	43.96	30.33	6.32	24.55	44.50	54.00	-9.50	AV
V	9608.00	54.84	30.85	7.45	24.69	56.13	74.00	-17.87	Pk
V	9608.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12010.00	51.88	31.02	8.99	25.57	55.42	74.00	-18.58	Pk
V	12010.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV
H	4804.00	52.86	30.55	5.77	24.66	52.74	74.00	-21.26	Pk
H	4804.00	43.52	30.55	5.77	24.66	43.40	54.00	-10.60	AV
H	7206.00	50.59	30.33	6.32	24.55	51.13	74.00	-22.87	Pk
H	7206.00	43.45	30.33	6.32	24.55	43.99	54.00	-10.01	AV
H	9608.00	54.52	30.85	7.45	24.69	55.81	74.00	-18.19	Pk
H	9608.00	43.22	30.85	7.45	24.69	44.51	54.00	-9.49	AV
H	12010.00	52.80	31.02	8.99	25.57	56.34	74.00	-17.66	Pk
H	12010.00	43.82	31.02	8.99	25.57	47.36	54.00	-6.64	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	54.97	30.55	5.77	24.66	54.85	74.00	-19.15	Pk
V	4882.00	43.76	30.55	5.77	24.66	43.64	54.00	-10.36	AV
V	7323.00	51.73	30.33	6.32	24.55	52.27	74.00	-21.73	Pk
V	7323.00	43.82	30.33	6.32	24.55	44.36	54.00	-9.64	AV
V	9764.00	53.03	30.85	7.45	24.69	54.32	74.00	-19.68	Pk
V	9764.00	43.59	30.85	7.45	24.69	44.88	54.00	-9.12	AV
V	12205.00	50.14	31.02	8.99	25.57	53.68	74.00	-20.32	Pk
V	12205.00	43.48	31.02	8.99	25.57	47.02	54.00	-6.98	AV
H	4882.00	54.70	30.55	5.77	24.66	54.58	74.00	-19.42	Pk
H	4882.00	43.20	30.55	5.77	24.66	43.08	54.00	-10.92	AV
H	7323.00	54.65	30.33	6.32	24.55	55.19	74.00	-18.81	Pk
H	7323.00	43.57	30.33	6.32	24.55	44.11	54.00	-9.89	AV
H	9764.00	54.19	30.85	7.45	24.69	55.48	74.00	-18.52	Pk
H	9764.00	43.52	30.85	7.45	24.69	44.81	54.00	-9.19	AV
H	12205.00	53.85	31.02	8.99	25.57	57.39	74.00	-16.61	Pk
H	12205.00	43.84	31.02	8.99	25.57	47.38	54.00	-6.62	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	51.46	30.55	5.77	24.66	51.34	74.00	-22.66	Pk
V	4960.00	43.80	30.55	5.77	24.66	43.68	54.00	-10.32	AV
V	7440.00	54.21	30.33	6.32	24.55	54.75	74.00	-19.25	Pk
V	7440.00	43.15	30.33	6.32	24.55	43.69	54.00	-10.31	AV
V	9920.00	52.58	30.85	7.45	24.69	53.87	74.00	-20.13	Pk
V	9920.00	43.39	30.85	7.45	24.69	44.68	54.00	-9.32	AV
V	12400.00	53.64	31.02	8.99	25.57	57.18	74.00	-16.82	Pk
V	12400.00	43.06	31.02	8.99	25.57	46.60	54.00	-7.40	AV
H	4960.00	53.19	30.55	5.77	24.66	53.07	74.00	-20.93	Pk
H	4960.00	43.69	30.55	5.77	24.66	43.57	54.00	-10.43	AV
H	7440.00	52.46	30.33	6.32	24.55	53.00	74.00	-21.00	Pk
H	7440.00	43.87	30.33	6.32	24.55	44.41	54.00	-9.59	AV
H	9920.00	50.22	30.85	7.45	24.69	51.51	74.00	-22.49	Pk
H	9920.00	43.91	30.85	7.45	24.69	45.20	54.00	-8.80	AV
H	12400.00	52.79	31.02	8.99	25.57	56.33	74.00	-17.67	Pk
H	12400.00	43.91	31.02	8.99	25.57	47.45	54.00	-6.55	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

π/4-DQPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	53.67	30.55	5.77	24.66	53.55	74.00	-20.45	Pk
V	4804.00	43.98	30.55	5.77	24.66	43.86	54.00	-10.14	AV
V	7206.00	52.78	30.33	6.32	24.55	53.32	74.00	-20.68	Pk
V	7206.00	43.10	30.33	6.32	24.55	43.64	54.00	-10.36	AV
V	9608.00	52.14	30.85	7.45	24.69	53.43	74.00	-20.57	Pk
V	9608.00	43.43	30.85	7.45	24.69	44.72	54.00	-9.28	AV
V	12010.00	53.47	31.02	8.99	25.57	57.01	74.00	-16.99	Pk
V	12010.00	43.81	31.02	8.99	25.57	47.35	54.00	-6.65	AV
H	4804.00	50.84	30.55	5.77	24.66	50.72	74.00	-23.28	Pk
H	4804.00	43.68	30.55	5.77	24.66	43.56	54.00	-10.44	AV
H	7206.00	52.13	30.33	6.32	24.55	52.67	74.00	-21.33	Pk
H	7206.00	43.93	30.33	6.32	24.55	44.47	54.00	-9.53	AV
H	9608.00	52.19	30.85	7.45	24.69	53.48	74.00	-20.52	Pk
H	9608.00	43.32	30.85	7.45	24.69	44.61	54.00	-9.39	AV
H	12010.00	50.53	31.02	8.99	25.57	54.07	74.00	-19.93	Pk
H	12010.00	43.12	31.02	8.99	25.57	46.66	54.00	-7.34	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	53.26	30.55	5.77	24.66	53.14	74.00	-20.86	Pk
V	4882.00	43.93	30.55	5.77	24.66	43.81	54.00	-10.19	AV
V	7323.00	50.04	30.33	6.32	24.55	50.58	74.00	-23.42	Pk
V	7323.00	43.45	30.33	6.32	24.55	43.99	54.00	-10.01	AV
V	9764.00	52.78	30.85	7.45	24.69	54.07	74.00	-19.93	Pk
V	9764.00	43.77	30.85	7.45	24.69	45.06	54.00	-8.94	AV
V	12205.00	51.75	31.02	8.99	25.57	55.29	74.00	-18.71	Pk
V	12205.00	43.69	31.02	8.99	25.57	47.23	54.00	-6.77	AV
H	4882.00	52.40	30.55	5.77	24.66	52.28	74.00	-21.72	Pk
H	4882.00	43.43	30.55	5.77	24.66	43.31	54.00	-10.69	AV
H	7323.00	53.02	30.33	6.32	24.55	53.56	74.00	-20.44	Pk
H	7323.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
H	9764.00	51.25	30.85	7.45	24.69	52.54	74.00	-21.46	Pk
H	9764.00	43.91	30.85	7.45	24.69	45.20	54.00	-8.80	AV
H	12205.00	52.59	31.02	8.99	25.57	56.13	74.00	-17.87	Pk
H	12205.00	43.57	31.02	8.99	25.57	47.11	54.00	-6.89	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	52.18	30.55	5.77	24.66	52.06	74.00	-21.94	Pk
V	4960.00	43.08	30.55	5.77	24.66	42.96	54.00	-11.04	AV
V	7440.00	54.86	30.33	6.32	24.55	55.40	74.00	-18.60	Pk
V	7440.00	43.27	30.33	6.32	24.55	43.81	54.00	-10.19	AV
V	9920.00	50.34	30.85	7.45	24.69	51.63	74.00	-22.37	Pk
V	9920.00	43.29	30.85	7.45	24.69	44.58	54.00	-9.42	AV
V	12400.00	50.96	31.02	8.99	25.57	54.50	74.00	-19.50	Pk
V	12400.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV
H	4960.00	52.13	30.55	5.77	24.66	52.01	74.00	-21.99	Pk
H	4960.00	43.75	30.55	5.77	24.66	43.63	54.00	-10.37	AV
H	7440.00	52.16	30.33	6.32	24.55	52.70	74.00	-21.30	Pk
H	7440.00	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV
H	9920.00	51.38	30.85	7.45	24.69	52.67	74.00	-21.33	Pk
H	9920.00	43.88	30.85	7.45	24.69	45.17	54.00	-8.83	AV
H	12400.00	54.05	31.02	8.99	25.57	57.59	74.00	-16.41	Pk
H	12400.00	43.02	31.02	8.99	25.57	46.56	54.00	-7.44	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8-DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	51.52	30.55	5.77	24.66	51.40	74.00	-22.60	Pk
V	4804.00	43.16	30.55	5.77	24.66	43.04	54.00	-10.96	AV
V	7206.00	54.73	30.33	6.32	24.55	55.27	74.00	-18.73	Pk
V	7206.00	43.26	30.33	6.32	24.55	43.80	54.00	-10.20	AV
V	9608.00	50.20	30.85	7.45	24.69	51.49	74.00	-22.51	Pk
V	9608.00	43.26	30.85	7.45	24.69	44.55	54.00	-9.45	AV
V	12010.00	50.46	31.02	8.99	25.57	54.00	74.00	-20.00	Pk
V	12010.00	43.99	31.02	8.99	25.57	47.53	54.00	-6.47	AV
H	4804.00	50.21	30.55	5.77	24.66	50.09	74.00	-23.91	Pk
H	4804.00	43.43	30.55	5.77	24.66	43.31	54.00	-10.69	AV
H	7206.00	51.40	30.33	6.32	24.55	51.94	74.00	-22.06	Pk
H	7206.00	43.41	30.33	6.32	24.55	43.95	54.00	-10.05	AV
H	9608.00	51.51	30.85	7.45	24.69	52.80	74.00	-21.20	Pk
H	9608.00	43.82	30.85	7.45	24.69	45.11	54.00	-8.89	AV
H	12010.00	54.15	31.02	8.99	25.57	57.69	74.00	-16.31	Pk
H	12010.00	43.90	31.02	8.99	25.57	47.44	54.00	-6.56	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	52.87	30.55	5.77	24.66	52.75	74.00	-21.25	Pk
V	4882.00	43.28	30.55	5.77	24.66	43.16	54.00	-10.84	AV
V	7323.00	54.35	30.33	6.32	24.55	54.89	74.00	-19.11	Pk
V	7323.00	43.66	30.33	6.32	24.55	44.20	54.00	-9.80	AV
V	9764.00	52.80	30.85	7.45	24.69	54.09	74.00	-19.91	Pk
V	9764.00	43.02	30.85	7.45	24.69	44.31	54.00	-9.69	AV
V	12205.00	53.75	31.02	8.99	25.57	57.29	74.00	-16.71	Pk
V	12205.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	4882.00	54.61	30.55	5.77	24.66	54.49	74.00	-19.51	Pk
H	4882.00	43.32	30.55	5.77	24.66	43.20	54.00	-10.80	AV
H	7323.00	50.09	30.33	6.32	24.55	50.63	74.00	-23.37	Pk
H	7323.00	43.73	30.33	6.32	24.55	44.27	54.00	-9.73	AV
H	9764.00	51.33	30.85	7.45	24.69	52.62	74.00	-21.38	Pk
H	9764.00	43.76	30.85	7.45	24.69	45.05	54.00	-8.95	AV
H	12205.00	51.43	31.02	8.99	25.57	54.97	74.00	-19.03	Pk
H	12205.00	43.54	31.02	8.99	25.57	47.08	54.00	-6.92	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	55.00	30.55	5.77	24.66	54.88	74.00	-19.12	Pk
V	4960.00	43.96	30.55	5.77	24.66	43.84	54.00	-10.16	AV
V	7440.00	50.08	30.33	6.32	24.55	50.62	74.00	-23.38	Pk
V	7440.00	43.09	30.33	6.32	24.55	43.63	54.00	-10.37	AV
V	9920.00	53.75	30.85	7.45	24.69	55.04	74.00	-18.96	Pk
V	9920.00	43.41	30.85	7.45	24.69	44.70	54.00	-9.30	AV
V	12400.00	54.80	31.02	8.99	25.57	58.34	74.00	-15.66	Pk
V	12400.00	43.15	31.02	8.99	25.57	46.69	54.00	-7.31	AV
H	4960.00	53.66	30.55	5.77	24.66	53.54	74.00	-20.46	Pk
H	4960.00	43.48	30.55	5.77	24.66	43.36	54.00	-10.64	AV
H	7440.00	54.96	30.33	6.32	24.55	55.50	74.00	-18.50	Pk
H	7440.00	43.95	30.33	6.32	24.55	44.49	54.00	-9.51	AV
H	9920.00	52.81	30.85	7.45	24.69	54.10	74.00	-19.90	Pk
H	9920.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	12400.00	54.51	31.02	8.99	25.57	58.05	74.00	-15.95	Pk
H	12400.00	43.89	31.02	8.99	25.57	47.43	54.00	-6.57	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

1GHz~25GHz(right）

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	52.97	30.55	5.77	24.66	52.85	74.00	-21.15	Pk
V	4804.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
V	7206.00	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	Pk
V	7206.00	43.19	30.33	6.32	24.55	43.73	54.00	-10.27	AV
V	9608.00	51.00	30.85	7.45	24.69	52.29	74.00	-21.71	Pk
V	9608.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
V	12010.00	54.28	31.02	8.99	25.57	57.82	74.00	-16.18	Pk
V	12010.00	43.11	31.02	8.99	25.57	46.65	54.00	-7.35	AV
H	4804.00	54.83	30.55	5.77	24.66	54.71	74.00	-19.29	Pk
H	4804.00	43.77	30.55	5.77	24.66	43.65	54.00	-10.35	AV
H	7206.00	53.91	30.33	6.32	24.55	54.45	74.00	-19.55	Pk
H	7206.00	43.12	30.33	6.32	24.55	43.66	54.00	-10.34	AV
H	9608.00	50.88	30.85	7.45	24.69	52.17	74.00	-21.83	Pk
H	9608.00	43.41	30.85	7.45	24.69	44.70	54.00	-9.30	AV
H	12010.00	51.37	31.02	8.99	25.57	54.91	74.00	-19.09	Pk
H	12010.00	43.30	31.02	8.99	25.57	46.84	54.00	-7.16	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	52.41	30.55	5.77	24.66	52.29	74.00	-21.71	Pk
V	4882.00	43.35	30.55	5.77	24.66	43.23	54.00	-10.77	AV
V	7323.00	51.17	30.33	6.32	24.55	51.71	74.00	-22.29	Pk
V	7323.00	43.48	30.33	6.32	24.55	44.02	54.00	-9.98	AV
V	9764.00	54.36	30.85	7.45	24.69	55.65	74.00	-18.35	Pk
V	9764.00	43.83	30.85	7.45	24.69	45.12	54.00	-8.88	AV
V	12205.00	51.80	31.02	8.99	25.57	55.34	74.00	-18.66	Pk
V	12205.00	43.87	31.02	8.99	25.57	47.41	54.00	-6.59	AV
H	4882.00	52.83	30.55	5.77	24.66	52.71	74.00	-21.29	Pk
H	4882.00	43.75	30.55	5.77	24.66	43.63	54.00	-10.37	AV
H	7323.00	53.85	30.33	6.32	24.55	54.39	74.00	-19.61	Pk
H	7323.00	43.76	30.33	6.32	24.55	44.30	54.00	-9.70	AV
H	9764.00	52.94	30.85	7.45	24.69	54.23	74.00	-19.77	Pk
H	9764.00	43.12	30.85	7.45	24.69	44.41	54.00	-9.59	AV
H	12205.00	53.59	31.02	8.99	25.57	57.13	74.00	-16.87	Pk
H	12205.00	43.45	31.02	8.99	25.57	46.99	54.00	-7.01	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	53.82	30.55	5.77	24.66	53.70	74.00	-20.30	Pk
V	4960.00	43.49	30.55	5.77	24.66	43.37	54.00	-10.63	AV
V	7440.00	53.61	30.33	6.32	24.55	54.15	74.00	-19.85	Pk
V	7440.00	43.18	30.33	6.32	24.55	43.72	54.00	-10.28	AV
V	9920.00	50.84	30.85	7.45	24.69	52.13	74.00	-21.87	Pk
V	9920.00	43.95	30.85	7.45	24.69	45.24	54.00	-8.76	AV
V	12400.00	50.15	31.02	8.99	25.57	53.69	74.00	-20.31	Pk
V	12400.00	43.72	31.02	8.99	25.57	47.26	54.00	-6.74	AV
H	4960.00	50.28	30.55	5.77	24.66	50.16	74.00	-23.84	Pk
H	4960.00	43.27	30.55	5.77	24.66	43.15	54.00	-10.85	AV
H	7440.00	52.42	30.33	6.32	24.55	52.96	74.00	-21.04	Pk
H	7440.00	43.42	30.33	6.32	24.55	43.96	54.00	-10.04	AV
H	9920.00	52.50	30.85	7.45	24.69	53.79	74.00	-20.21	Pk
H	9920.00	43.65	30.85	7.45	24.69	44.94	54.00	-9.06	AV
H	12400.00	52.42	31.02	8.99	25.57	55.96	74.00	-18.04	Pk
H	12400.00	43.24	31.02	8.99	25.57	46.78	54.00	-7.22	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

π/4-DQPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	53.77	30.55	5.77	24.66	53.65	74.00	-20.35	Pk
V	4804.00	43.38	30.55	5.77	24.66	43.26	54.00	-10.74	AV
V	7206.00	54.57	30.33	6.32	24.55	55.11	74.00	-18.89	Pk
V	7206.00	43.15	30.33	6.32	24.55	43.69	54.00	-10.31	AV
V	9608.00	50.88	30.85	7.45	24.69	52.17	74.00	-21.83	Pk
V	9608.00	43.42	30.85	7.45	24.69	44.71	54.00	-9.29	AV
V	12010.00	52.08	31.02	8.99	25.57	55.62	74.00	-18.38	Pk
V	12010.00	43.32	31.02	8.99	25.57	46.86	54.00	-7.14	AV
H	4804.00	51.98	30.55	5.77	24.66	51.86	74.00	-22.14	Pk
H	4804.00	43.29	30.55	5.77	24.66	43.17	54.00	-10.83	AV
H	7206.00	52.91	30.33	6.32	24.55	53.45	74.00	-20.55	Pk
H	7206.00	43.11	30.33	6.32	24.55	43.65	54.00	-10.35	AV
H	9608.00	52.51	30.85	7.45	24.69	53.80	74.00	-20.20	Pk
H	9608.00	43.49	30.85	7.45	24.69	44.78	54.00	-9.22	AV
H	12010.00	52.64	31.02	8.99	25.57	56.18	74.00	-17.82	Pk
H	12010.00	43.27	31.02	8.99	25.57	46.81	54.00	-7.19	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	53.19	30.55	5.77	24.66	53.07	74.00	-20.93	Pk
V	4882.00	43.77	30.55	5.77	24.66	43.65	54.00	-10.35	AV
V	7323.00	52.98	30.33	6.32	24.55	53.52	74.00	-20.48	Pk
V	7323.00	43.22	30.33	6.32	24.55	43.76	54.00	-10.24	AV
V	9764.00	51.47	30.85	7.45	24.69	52.76	74.00	-21.24	Pk
V	9764.00	43.05	30.85	7.45	24.69	44.34	54.00	-9.66	AV
V	12205.00	54.26	31.02	8.99	25.57	57.80	74.00	-16.20	Pk
V	12205.00	43.58	31.02	8.99	25.57	47.12	54.00	-6.88	AV
H	4882.00	51.64	30.55	5.77	24.66	51.52	74.00	-22.48	Pk
H	4882.00	43.65	30.55	5.77	24.66	43.53	54.00	-10.47	AV
H	7323.00	52.77	30.33	6.32	24.55	53.31	74.00	-20.69	Pk
H	7323.00	43.72	30.33	6.32	24.55	44.26	54.00	-9.74	AV
H	9764.00	54.29	30.85	7.45	24.69	55.58	74.00	-18.42	Pk
H	9764.00	43.12	30.85	7.45	24.69	44.41	54.00	-9.59	AV
H	12205.00	53.23	31.02	8.99	25.57	56.77	74.00	-17.23	Pk
H	12205.00	43.13	31.02	8.99	25.57	46.67	54.00	-7.33	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	50.17	30.55	5.77	24.66	50.05	74.00	-23.95	Pk
V	4960.00	43.40	30.55	5.77	24.66	43.28	54.00	-10.72	AV
V	7440.00	52.95	30.33	6.32	24.55	53.49	74.00	-20.51	Pk
V	7440.00	43.74	30.33	6.32	24.55	44.28	54.00	-9.72	AV
V	9920.00	52.01	30.85	7.45	24.69	53.30	74.00	-20.70	Pk
V	9920.00	43.63	30.85	7.45	24.69	44.92	54.00	-9.08	AV
V	12400.00	53.55	31.02	8.99	25.57	57.09	74.00	-16.91	Pk
V	12400.00	43.19	31.02	8.99	25.57	46.73	54.00	-7.27	AV
H	4960.00	54.07	30.55	5.77	24.66	53.95	74.00	-20.05	Pk
H	4960.00	43.68	30.55	5.77	24.66	43.56	54.00	-10.44	AV
H	7440.00	53.35	30.33	6.32	24.55	53.89	74.00	-20.11	Pk
H	7440.00	43.64	30.33	6.32	24.55	44.18	54.00	-9.82	AV
H	9920.00	51.86	30.85	7.45	24.69	53.15	74.00	-20.85	Pk
H	9920.00	43.61	30.85	7.45	24.69	44.90	54.00	-9.10	AV
H	12400.00	53.22	31.02	8.99	25.57	56.76	74.00	-17.24	Pk
H	12400.00	43.62	31.02	8.99	25.57	47.16	54.00	-6.84	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

8-DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	52.47	30.55	5.77	24.66	52.35	74.00	-21.65	Pk
V	4804.00	43.05	30.55	5.77	24.66	42.93	54.00	-11.07	AV
V	7206.00	52.88	30.33	6.32	24.55	53.42	74.00	-20.58	Pk
V	7206.00	43.96	30.33	6.32	24.55	44.50	54.00	-9.50	AV
V	9608.00	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	Pk
V	9608.00	43.56	30.85	7.45	24.69	44.85	54.00	-9.15	AV
V	12010.00	54.24	31.02	8.99	25.57	57.78	74.00	-16.22	Pk
V	12010.00	43.09	31.02	8.99	25.57	46.63	54.00	-7.37	AV
H	4804.00	53.50	30.55	5.77	24.66	53.38	74.00	-20.62	Pk
H	4804.00	43.31	30.55	5.77	24.66	43.19	54.00	-10.81	AV
H	7206.00	52.39	30.33	6.32	24.55	52.93	74.00	-21.07	Pk
H	7206.00	43.87	30.33	6.32	24.55	44.41	54.00	-9.59	AV
H	9608.00	51.85	30.85	7.45	24.69	53.14	74.00	-20.86	Pk
H	9608.00	43.09	30.85	7.45	24.69	44.38	54.00	-9.62	AV
H	12010.00	50.46	31.02	8.99	25.57	54.00	74.00	-20.00	Pk
H	12010.00	43.62	31.02	8.99	25.57	47.16	54.00	-6.84	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	50.08	30.55	5.77	24.66	49.96	74.00	-24.04	Pk
V	4882.00	43.19	30.55	5.77	24.66	43.07	54.00	-10.93	AV
V	7323.00	51.43	30.33	6.32	24.55	51.97	74.00	-22.03	Pk
V	7323.00	43.49	30.33	6.32	24.55	44.03	54.00	-9.97	AV
V	9764.00	52.72	30.85	7.45	24.69	54.01	74.00	-19.99	Pk
V	9764.00	43.79	30.85	7.45	24.69	45.08	54.00	-8.92	AV
V	12205.00	53.80	31.02	8.99	25.57	57.34	74.00	-16.66	Pk
V	12205.00	43.13	31.02	8.99	25.57	46.67	54.00	-7.33	AV
H	4882.00	53.76	30.55	5.77	24.66	53.64	74.00	-20.36	Pk
H	4882.00	43.03	30.55	5.77	24.66	42.91	54.00	-11.09	AV
H	7323.00	50.89	30.33	6.32	24.55	51.43	74.00	-22.57	Pk
H	7323.00	43.02	30.33	6.32	24.55	43.56	54.00	-10.44	AV
H	9764.00	51.55	30.85	7.45	24.69	52.84	74.00	-21.16	Pk
H	9764.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12205.00	54.49	31.02	8.99	25.57	58.03	74.00	-15.97	Pk
H	12205.00	43.34	31.02	8.99	25.57	46.88	54.00	-7.12	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	52.76	30.55	5.77	24.66	52.64	74.00	-21.36	Pk
V	4960.00	43.78	30.55	5.77	24.66	43.66	54.00	-10.34	AV
V	7440.00	50.74	30.33	6.32	24.55	51.28	74.00	-22.72	Pk
V	7440.00	43.17	30.33	6.32	24.55	43.71	54.00	-10.29	AV
V	9920.00	54.91	30.85	7.45	24.69	56.20	74.00	-17.80	Pk
V	9920.00	43.21	30.85	7.45	24.69	44.50	54.00	-9.50	AV
V	12400.00	51.17	31.02	8.99	25.57	54.71	74.00	-19.29	Pk
V	12400.00	43.13	31.02	8.99	25.57	46.67	54.00	-7.33	AV
H	4960.00	53.08	30.55	5.77	24.66	52.96	74.00	-21.04	Pk
H	4960.00	43.11	30.55	5.77	24.66	42.99	54.00	-11.01	AV
H	7440.00	51.35	30.33	6.32	24.55	51.89	74.00	-22.11	Pk
H	7440.00	43.18	30.33	6.32	24.55	43.72	54.00	-10.28	AV
H	9920.00	51.90	30.85	7.45	24.69	53.19	74.00	-20.81	Pk
H	9920.00	43.45	30.85	7.45	24.69	44.74	54.00	-9.26	AV
H	12400.00	53.48	31.02	8.99	25.57	57.02	74.00	-16.98	Pk
H	12400.00	43.47	31.02	8.99	25.57	47.01	54.00	-6.99	AV

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

5. RADIATED BAND EMISSION MEASUREMENT

5.1 Test Requirement:

Test Requirement:	FCC Part15 C Section 15.209 and 15.205
Test Method:	ANSI C63.10: 2013
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.
Test site:	Measurement Distance: 3m
Receiver setup:	

Frequency	Detector	RBW	VBW	Value
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	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).

Spectrum 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

5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. 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:

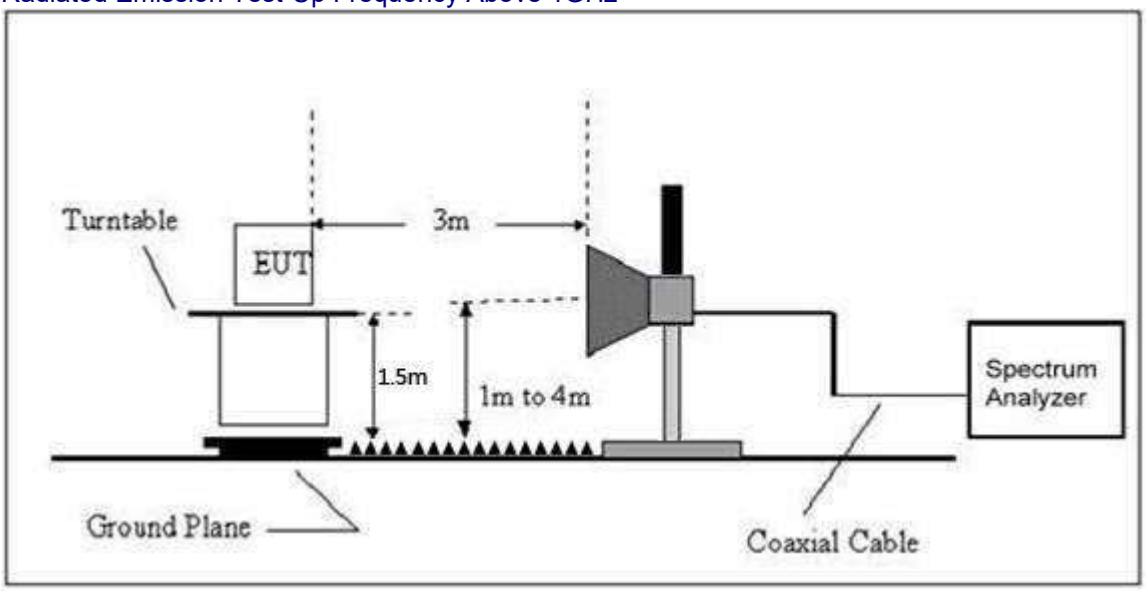
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



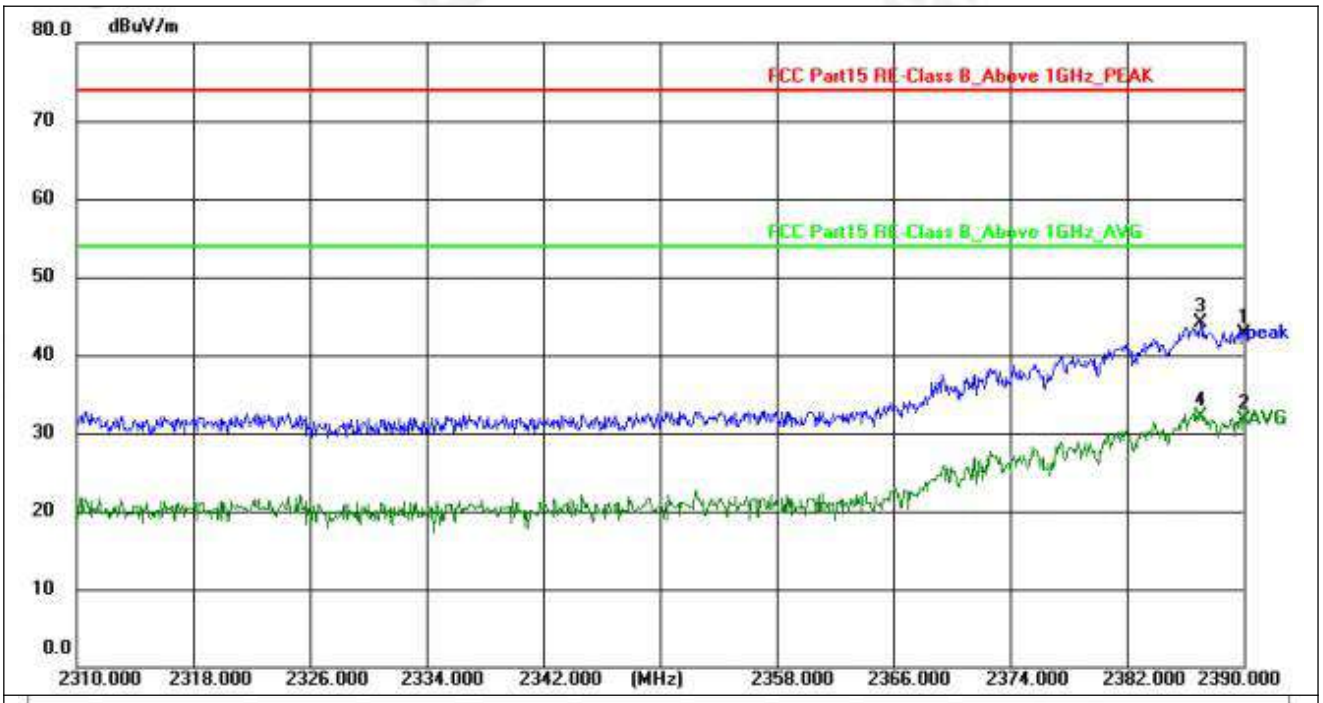
5.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

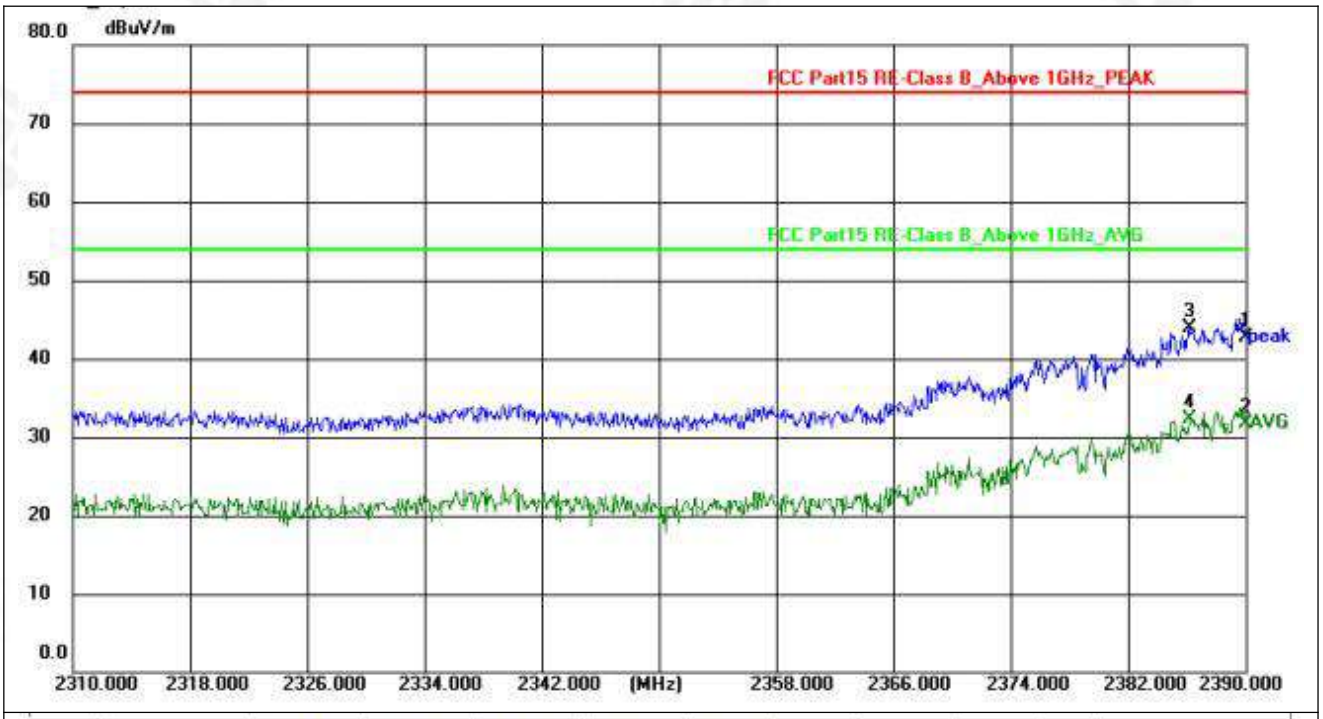
All modes were tested (left :Worst case GFSK)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test channel	2402MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	46.65	-3.96	42.69	74.00	-31.31	peak			P	
2	2390.000	35.57	-3.96	31.61	54.00	-22.39	AVG			P	
3	2387.040	48.09	-3.98	44.11	74.00	-29.89	peak			P	
4 *	2387.040	35.99	-3.98	32.01	54.00	-21.99	AVG			P	

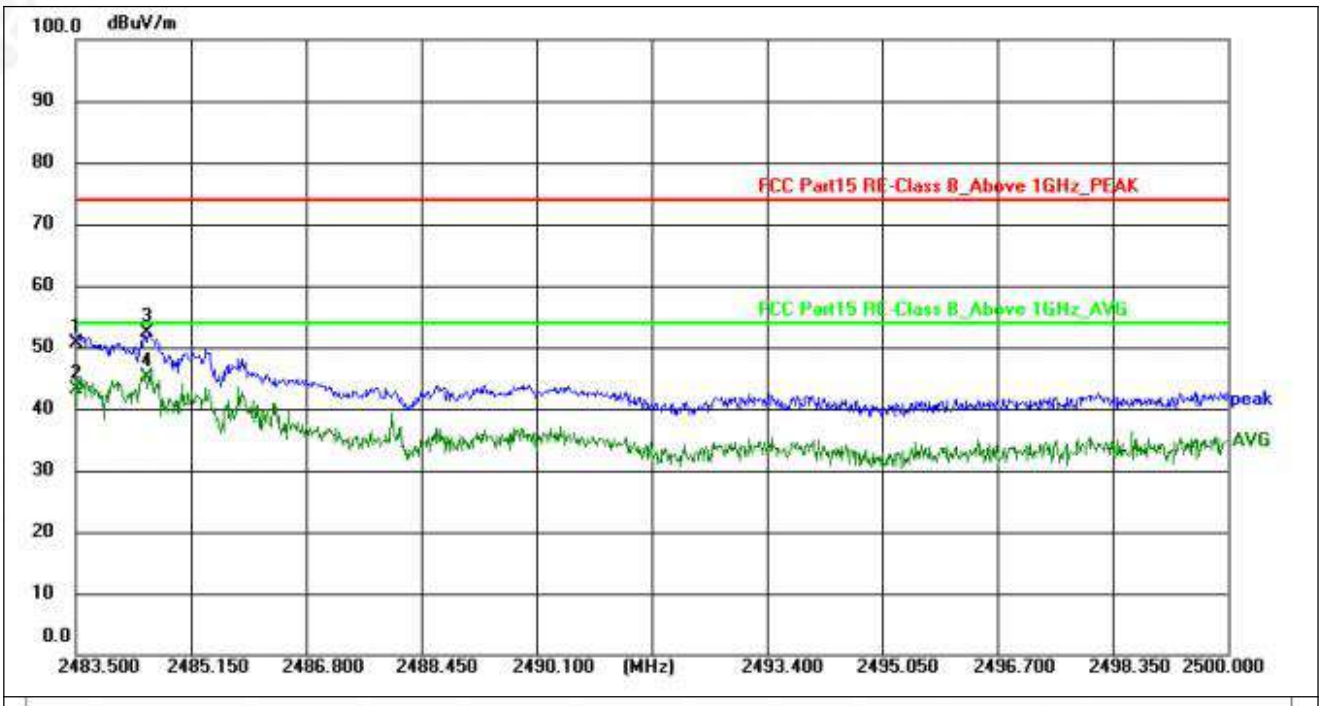
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test channel	2402MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	46.65	-3.96	42.69	74.00	-31.31	peak			P	
2	2390.000	35.57	-3.96	31.61	54.00	-22.39	AVG			P	
3	2386.160	47.93	-3.99	43.94	74.00	-30.06	peak			P	
4 *	2386.160	36.22	-3.99	32.23	54.00	-21.77	AVG			P	

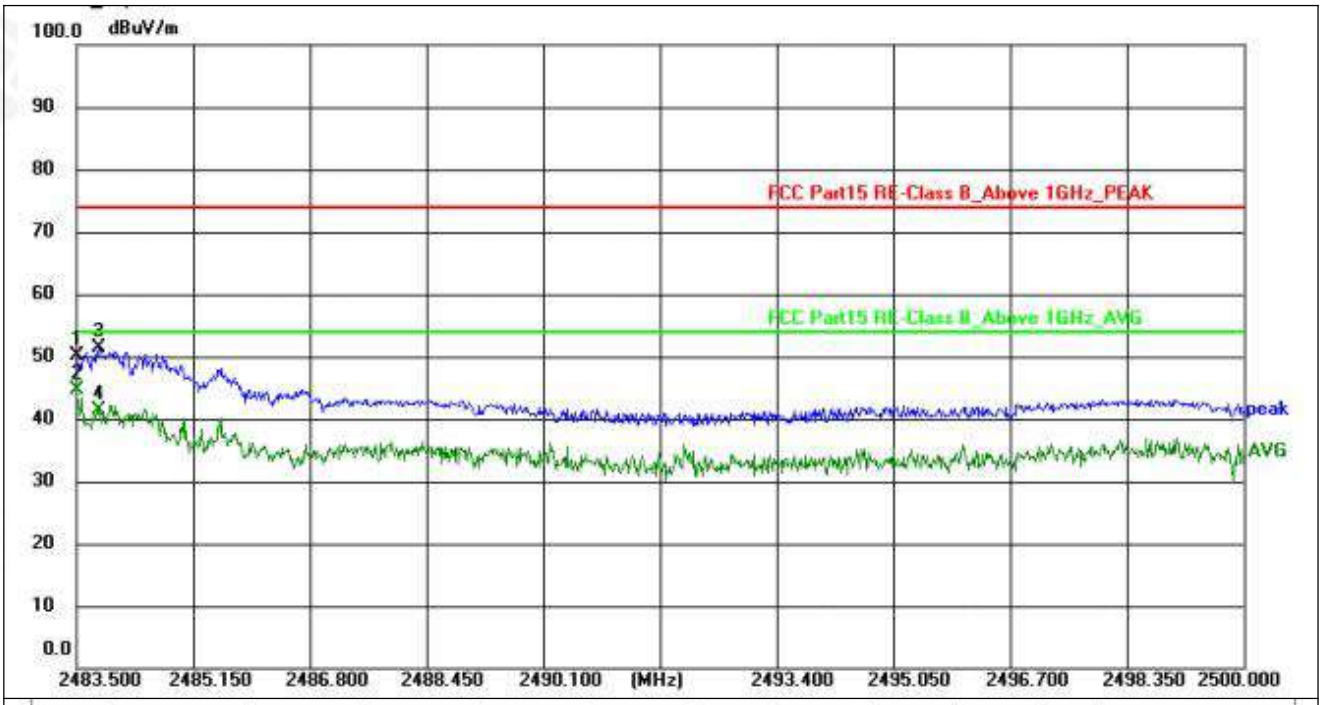
Test model

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test channel	2480MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	54.15	-3.58	50.57	74.00	-23.43	peak			P	
2	2483.500	46.73	-3.58	43.15	54.00	-10.85	AVG			P	
3	2484.550	55.85	-3.57	52.28	74.00	-21.72	peak			P	
4 *	2484.550	48.65	-3.57	45.08	54.00	-8.92	AVG			P	

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test channel	2480MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	53.65	-3.58	50.07	74.00	-23.93	peak			P	
2 *	2483.500	48.23	-3.58	44.65	54.00	-9.35	AVG			P	
3	2483.831	54.90	-3.57	51.33	74.00	-22.67	peak			P	
4	2483.831	44.88	-3.57	41.31	54.00	-12.69	AVG			P	

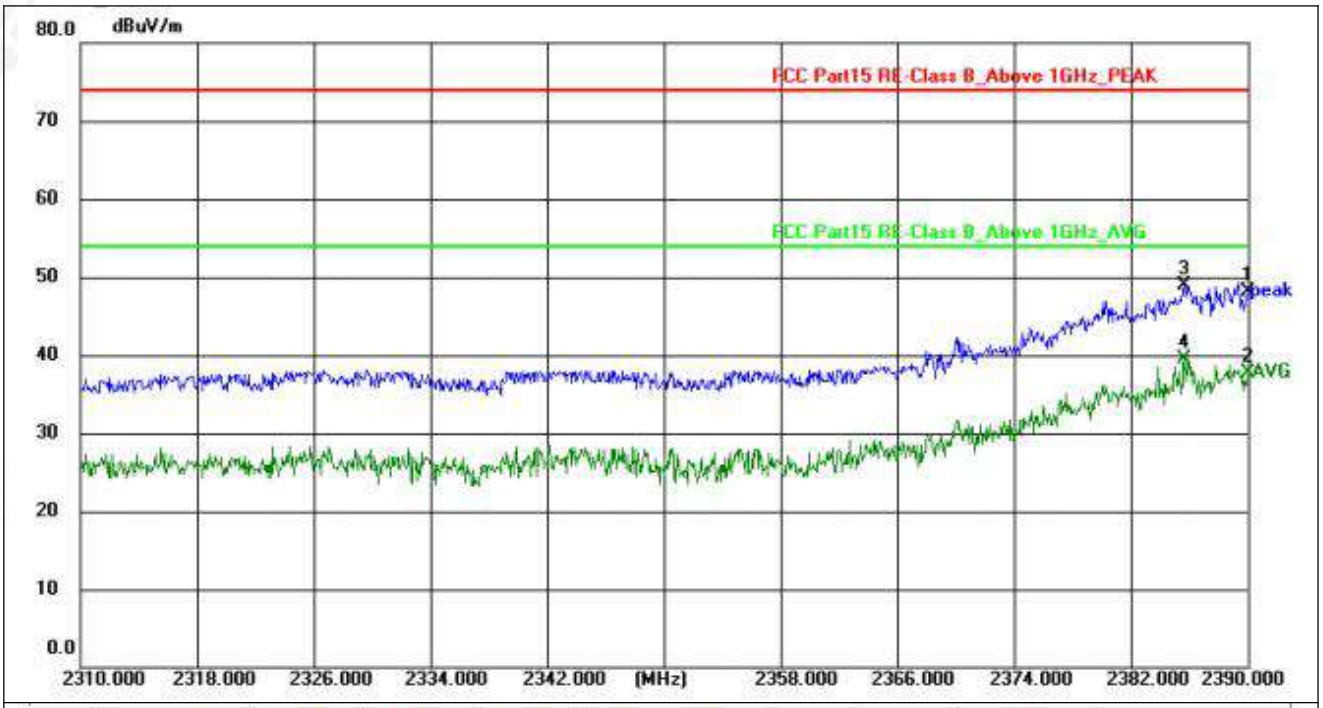
Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2.The emission levels of other frequencies are very lower than the limit and not show in test report.

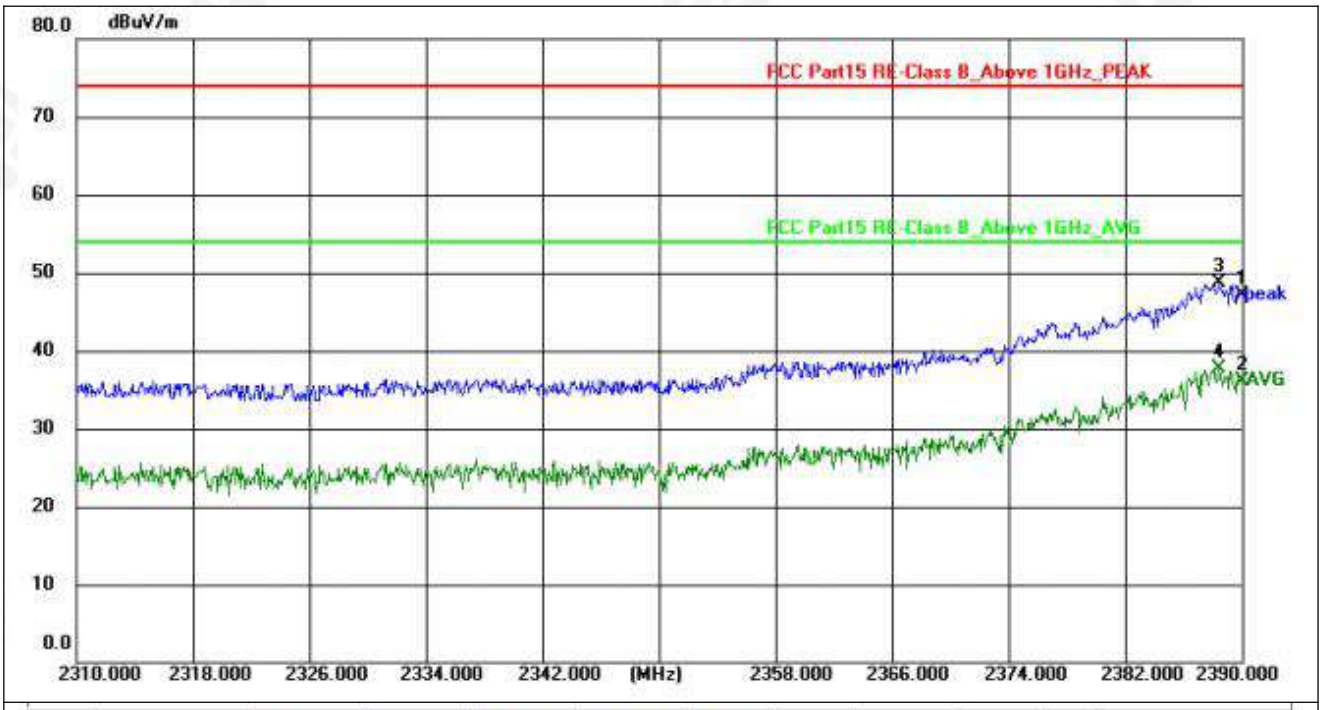
(right :Worst case GFSK)

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test channel	2402MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	52.15	-3.96	48.19	74.00	-25.81	peak			P	
2	2390.000	41.57	-3.96	37.61	54.00	-16.39	AVG			P	
3	2385.680	52.85	-3.99	48.86	74.00	-25.14	peak			P	
4 *	2385.680	43.56	-3.99	39.57	54.00	-14.43	AVG			P	

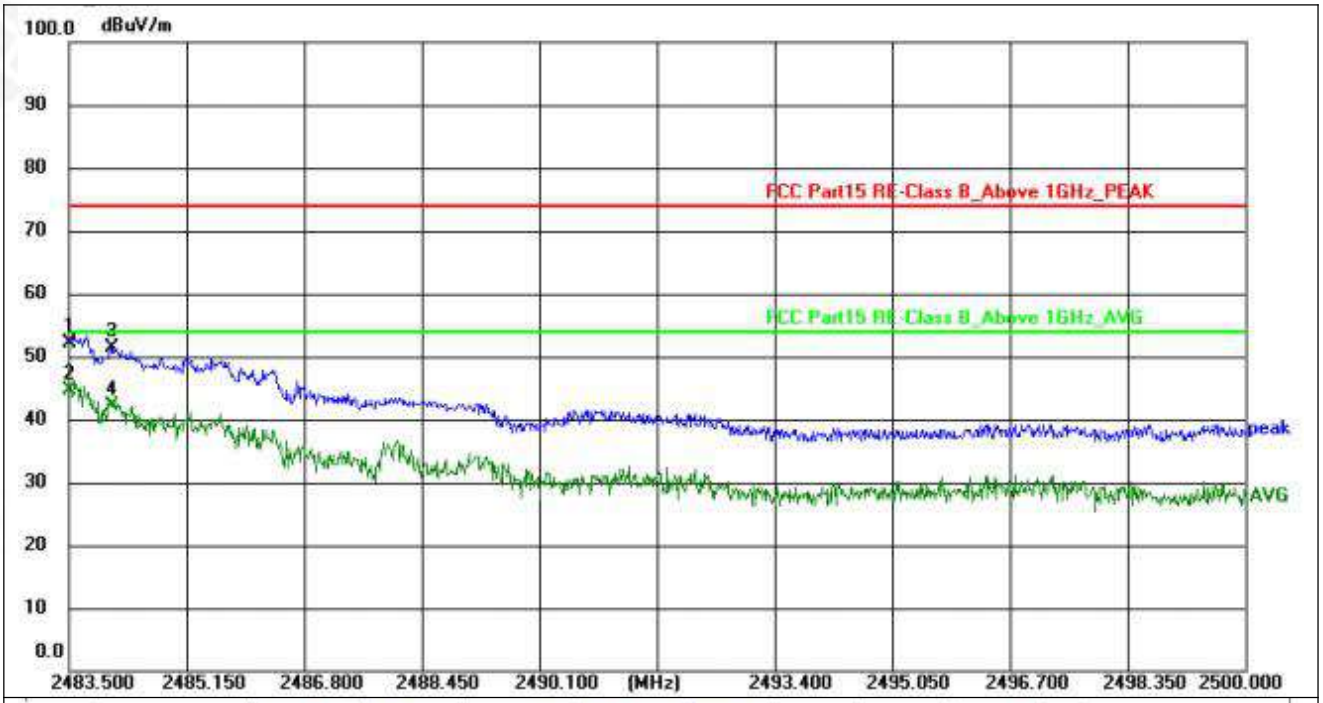
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test channel	2402MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2390.000	51.15	-3.96	47.19	74.00	-26.81	peak			P	
2	2390.000	40.07	-3.96	36.11	54.00	-17.89	AVG			P	
3	2388.400	52.59	-3.97	48.62	74.00	-25.38	peak			P	
4 *	2388.400	41.71	-3.97	37.74	54.00	-16.26	AVG			P	

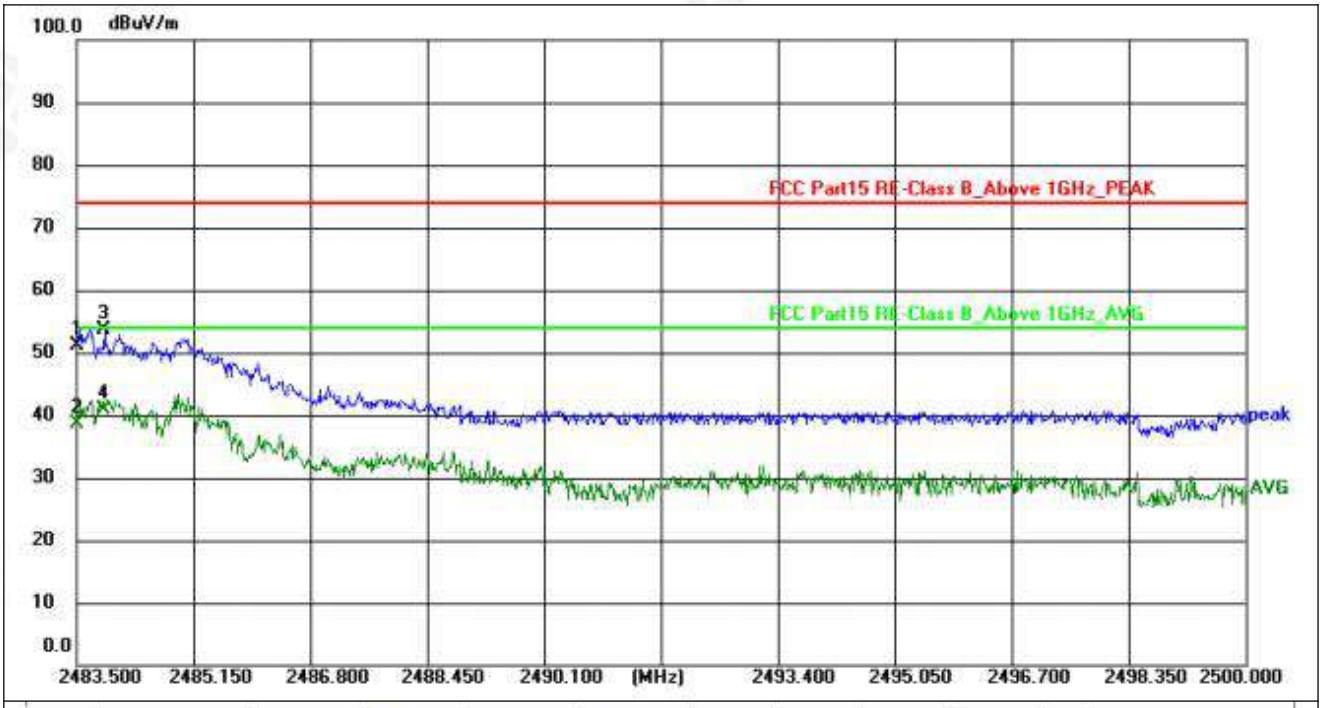
Test model

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test channel	2480MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	55.65	-3.58	52.07	74.00	-21.93	peak			P	
2 *	2483.500	48.23	-3.58	44.65	54.00	-9.35	AVG			P	
3	2484.125	54.99	-3.57	51.42	74.00	-22.58	peak			P	
4	2484.125	45.65	-3.57	42.08	54.00	-11.92	AVG			P	

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test channel	2480MHz(worst case)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	2483.500	54.65	-3.58	51.07	74.00	-22.93	peak			P	
2	2483.500	42.23	-3.58	38.65	54.00	-15.35	AVG			P	
3	2483.898	57.28	-3.57	53.71	74.00	-20.29	peak			P	
4 *	2483.898	44.51	-3.57	40.94	54.00	-13.06	AVG			P	

Remarks:

1.Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

2.The emission levels of other frequencies are very lower than the limit and not show in test report.

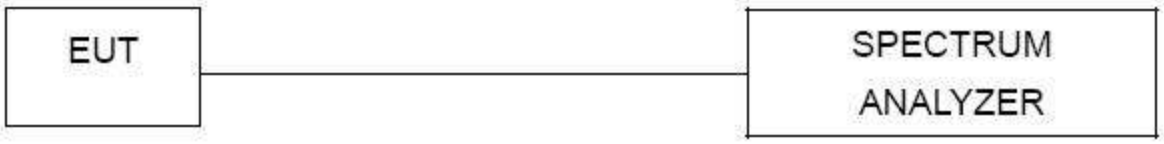
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidancev05r02

6.1 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 §15.209(a) (see §15.205(c)).

6.2 Test Setup



6.3 Test procedure

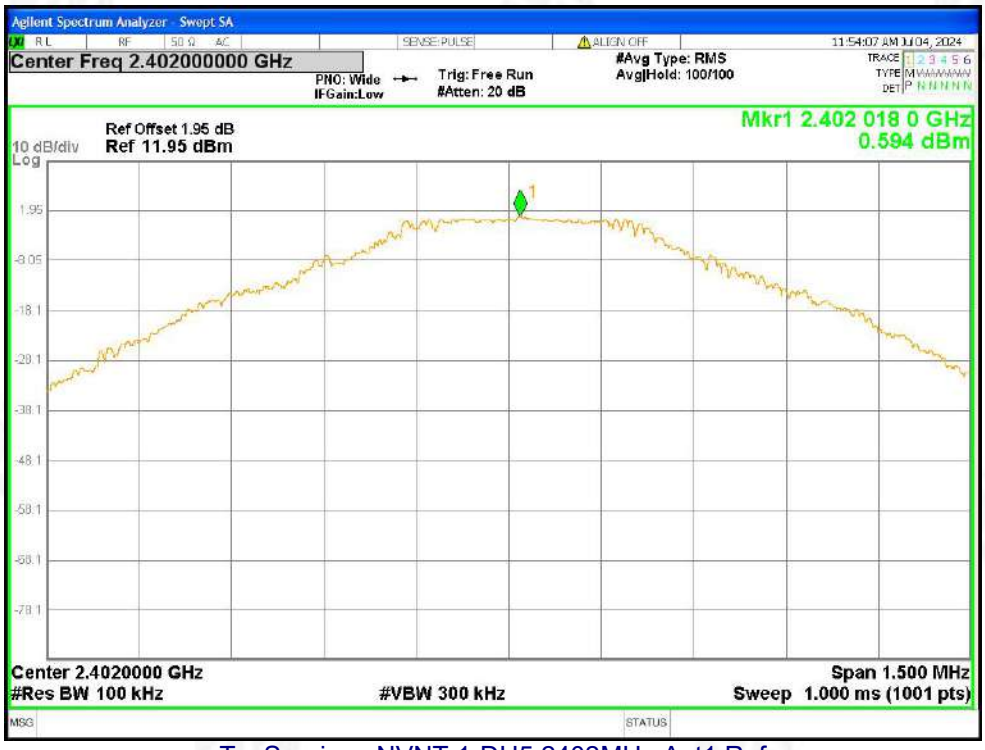
Using the following spectrum analyzer setting:
A) Set the RBW = 100KHz.
B) Set the VBW = 300KHz.
C) Sweep time = auto couple.
D) Detector function = peak.
E) Trace mode = max hold.
F) Allow trace to fully stabilize.

6.4 DEVIATION FROM STANDARD

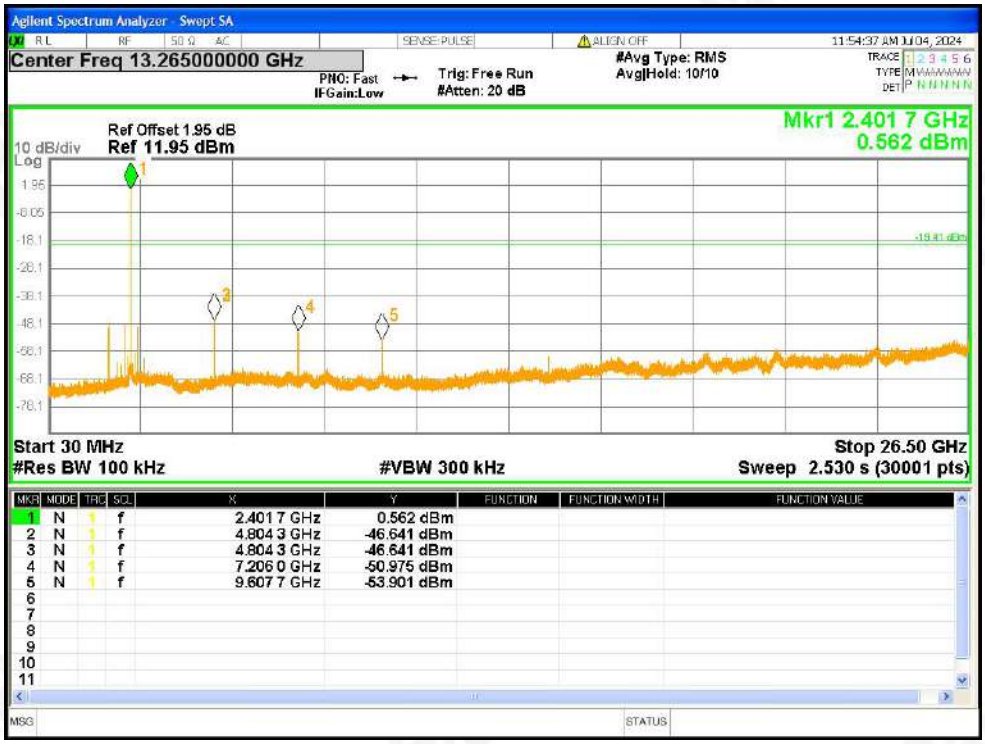
No deviation.

6.5 Test Result

(left)

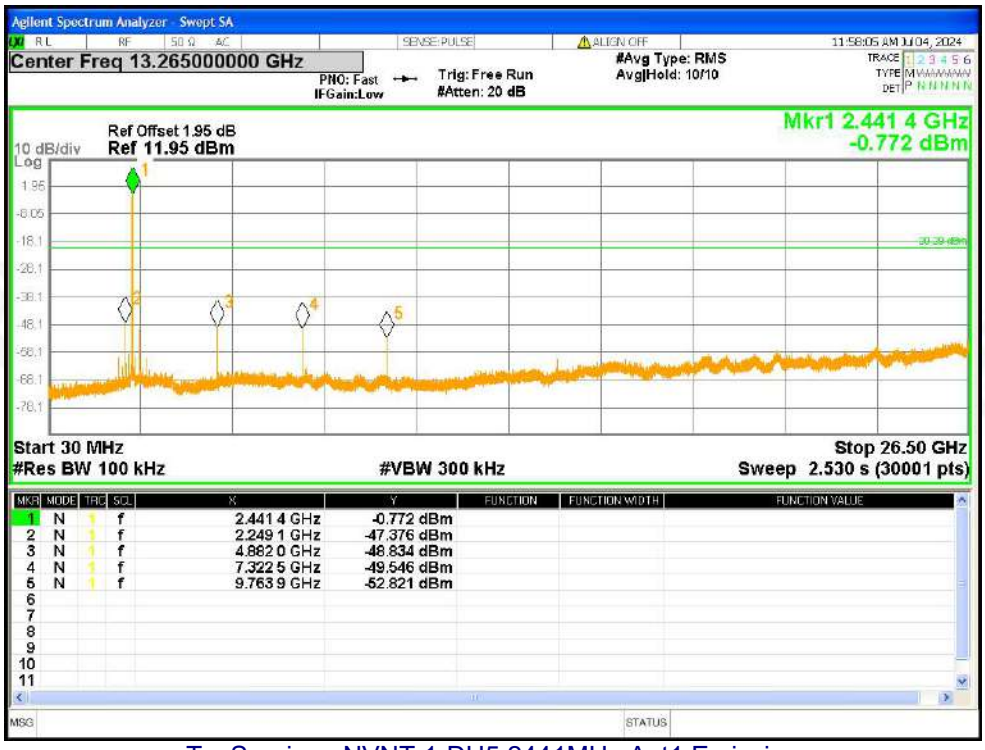


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



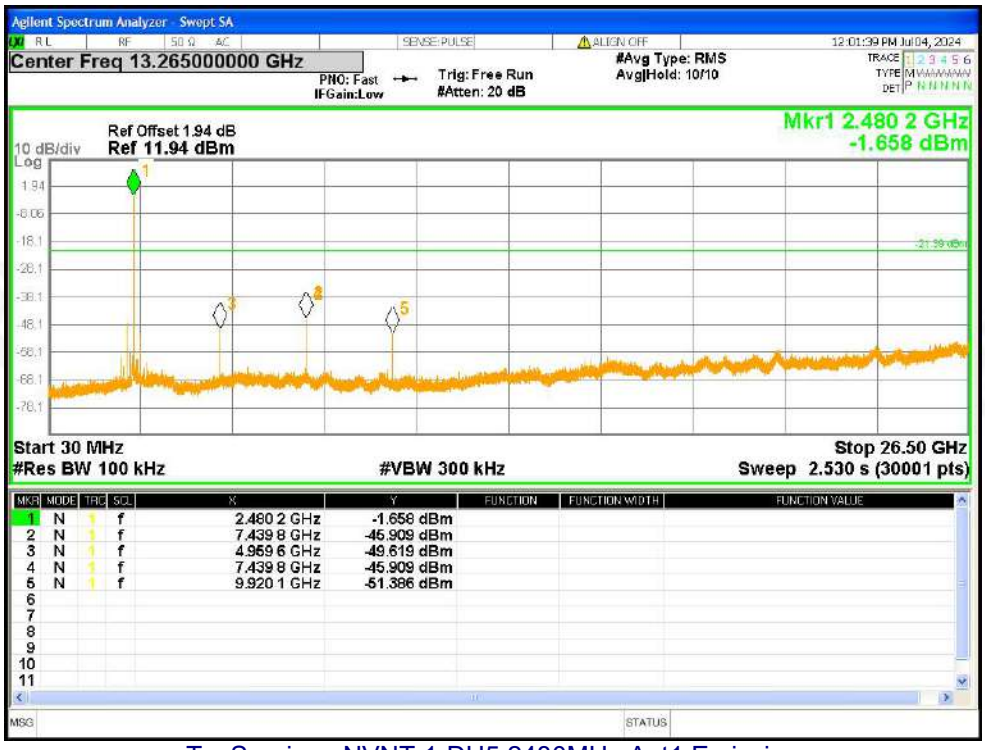
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



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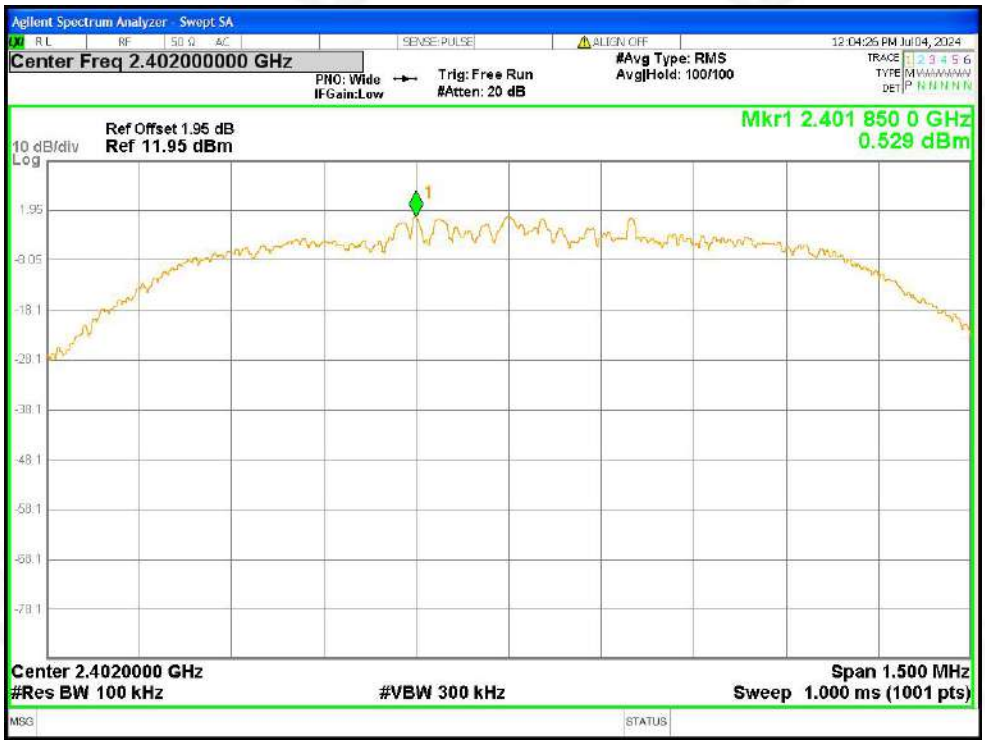
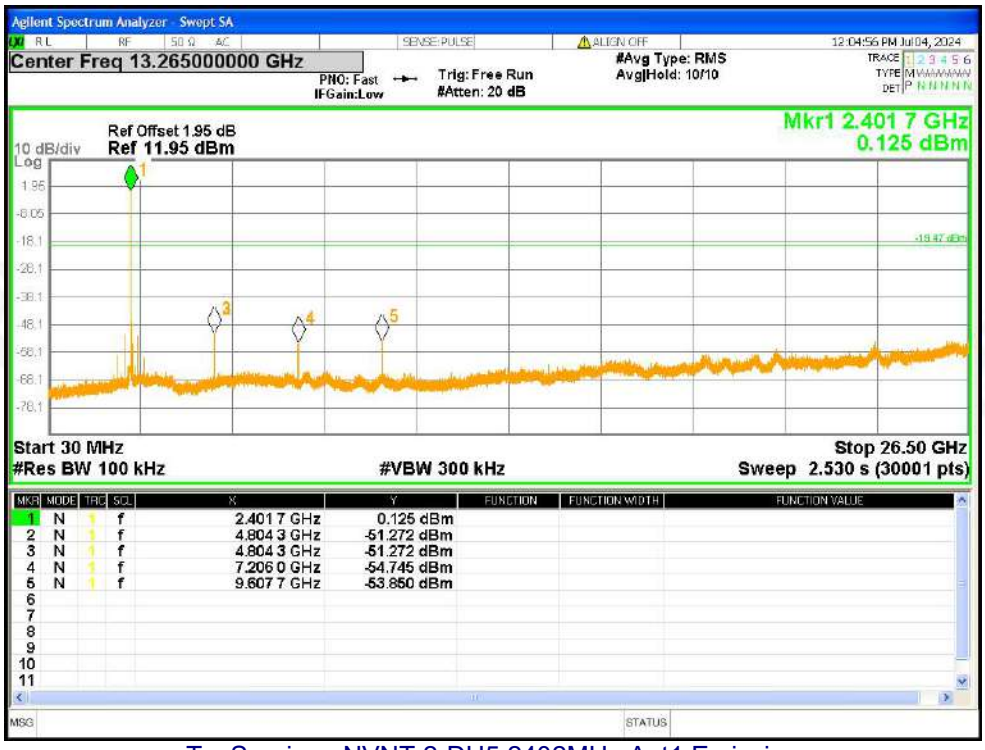
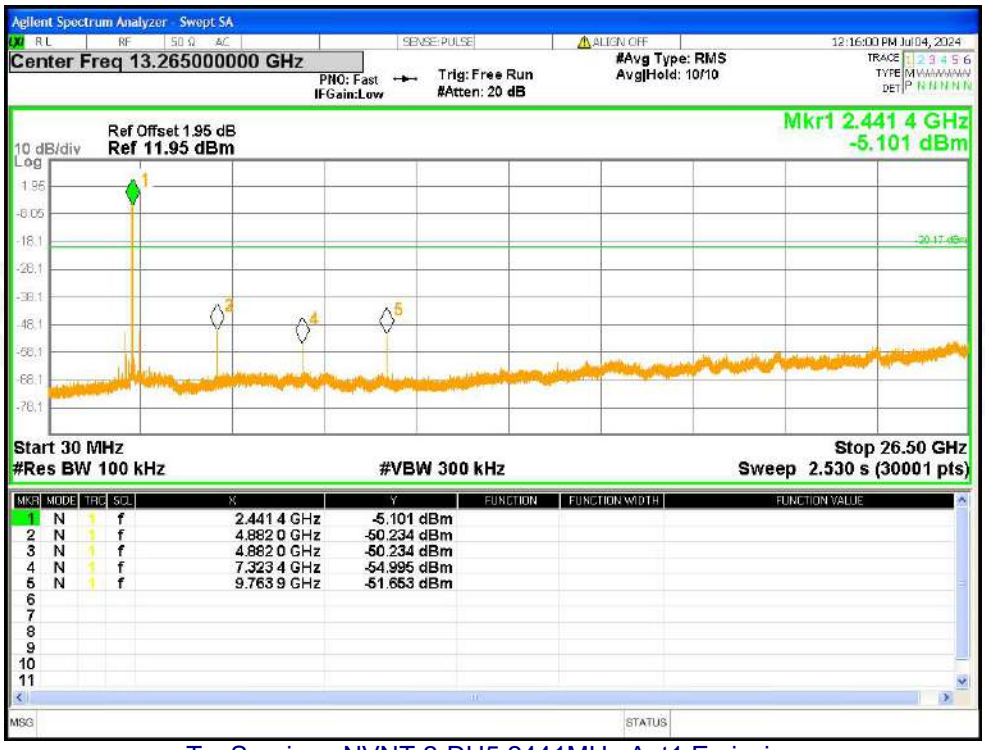


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



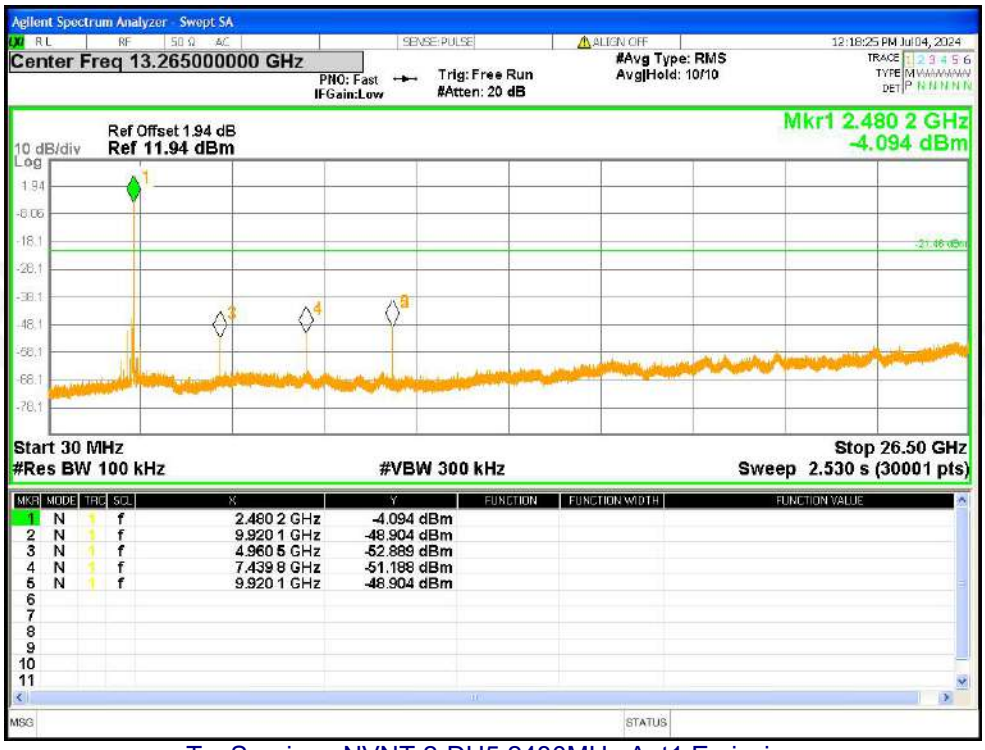
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



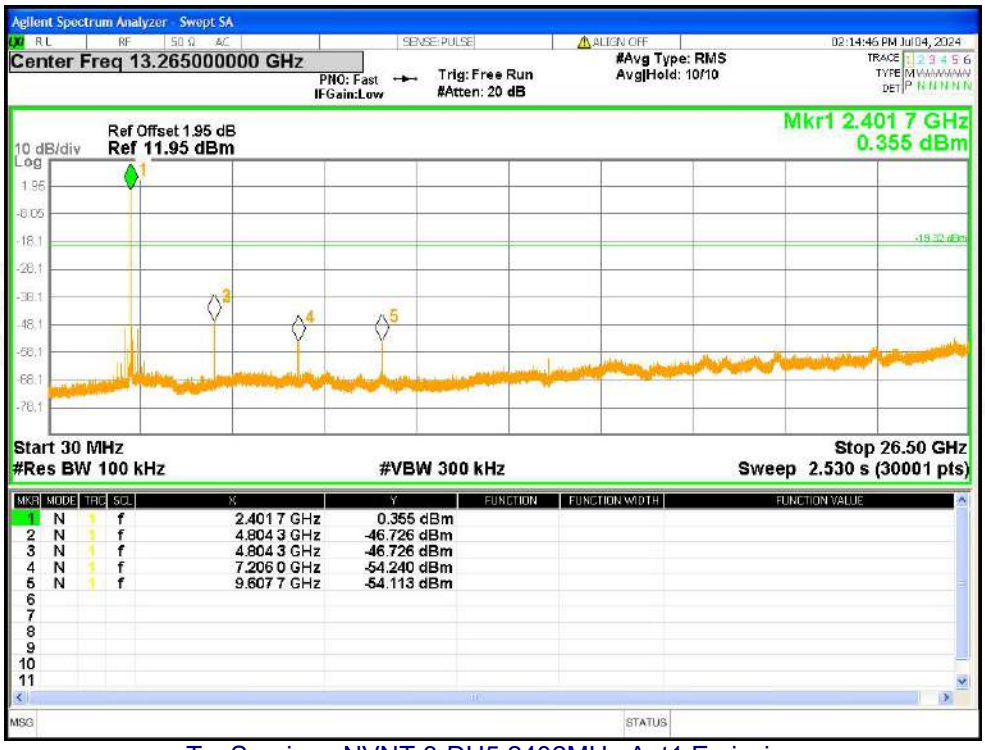
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



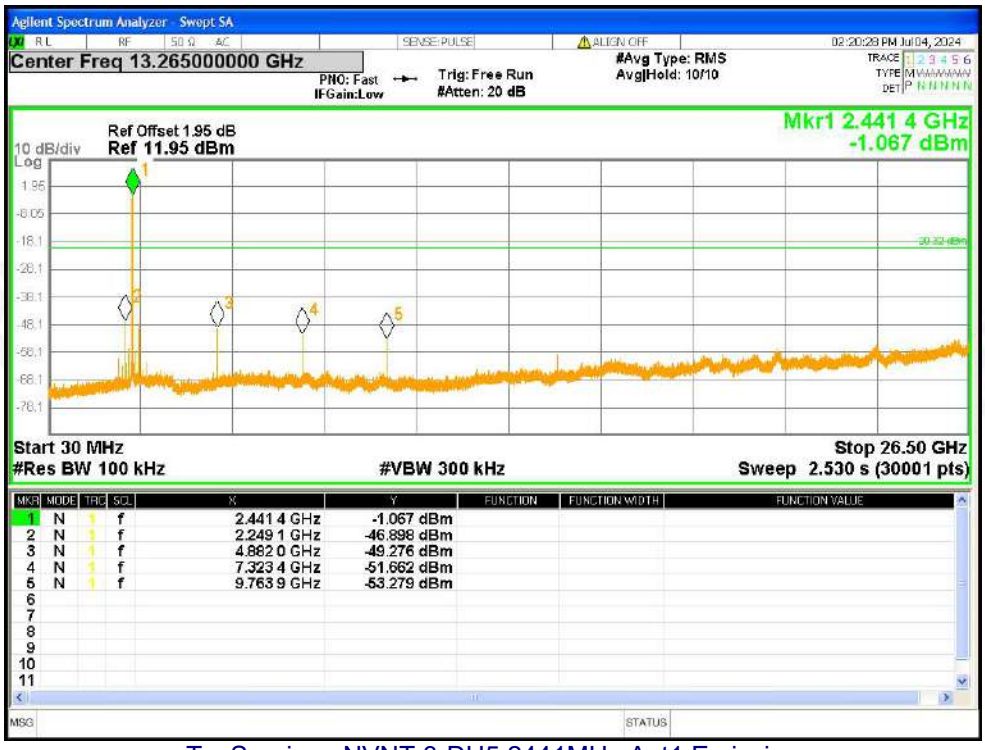
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



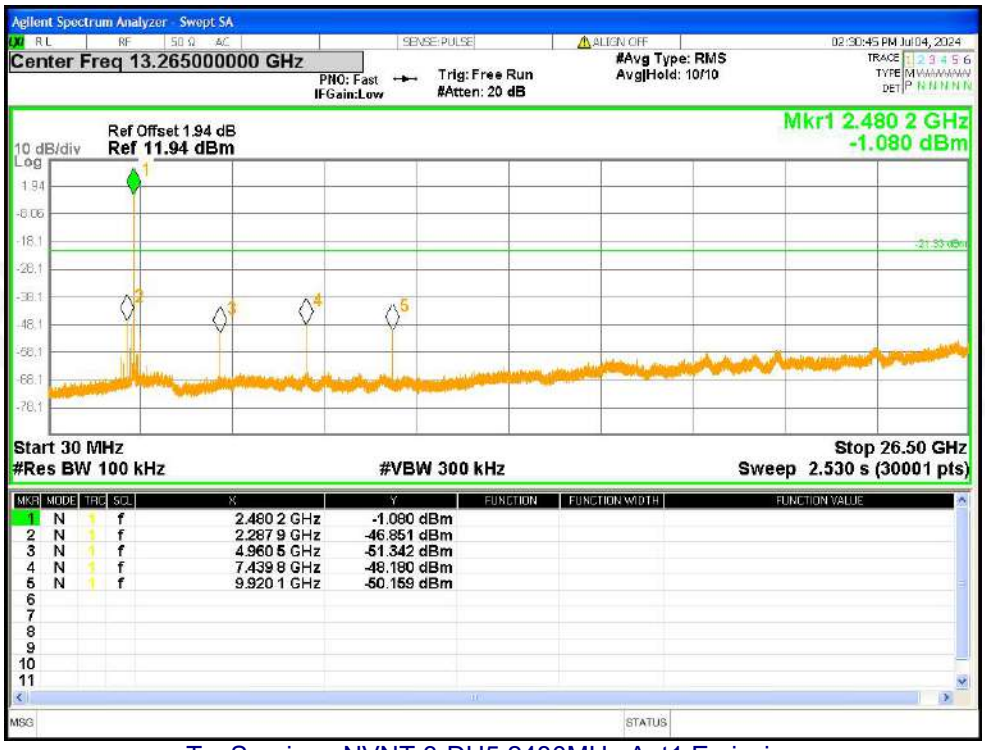
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

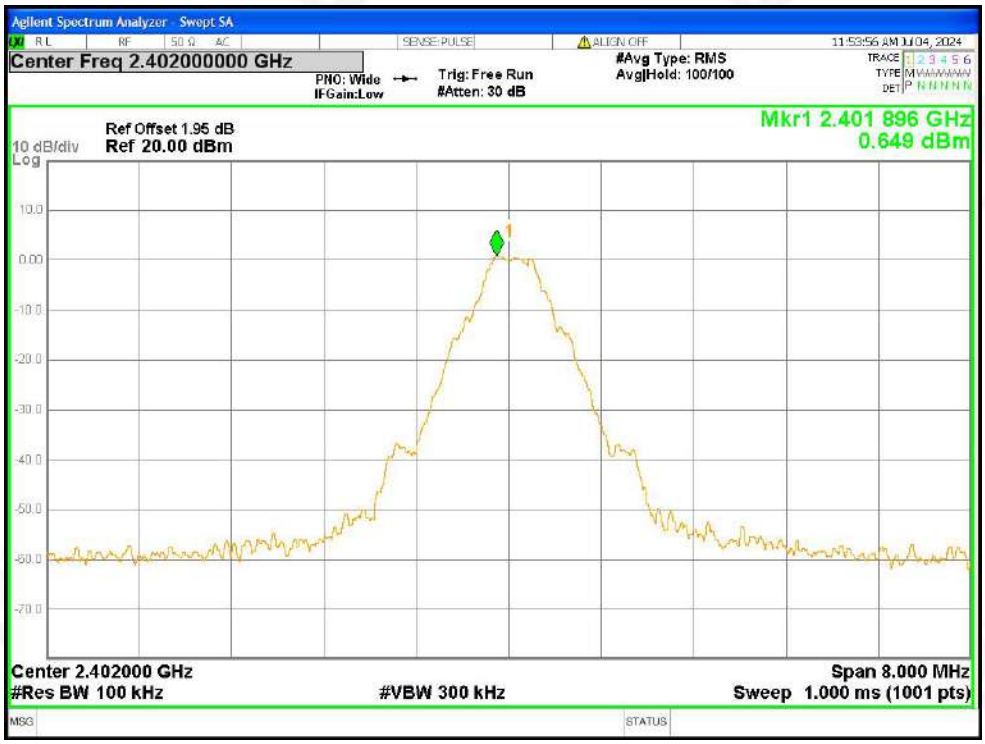


Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

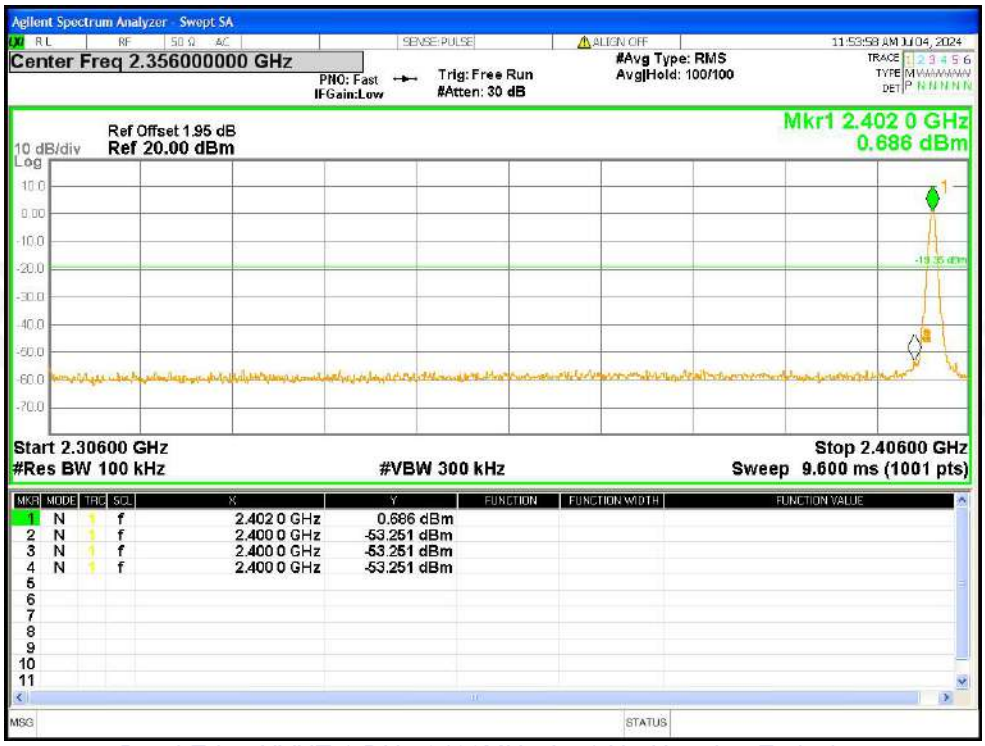
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



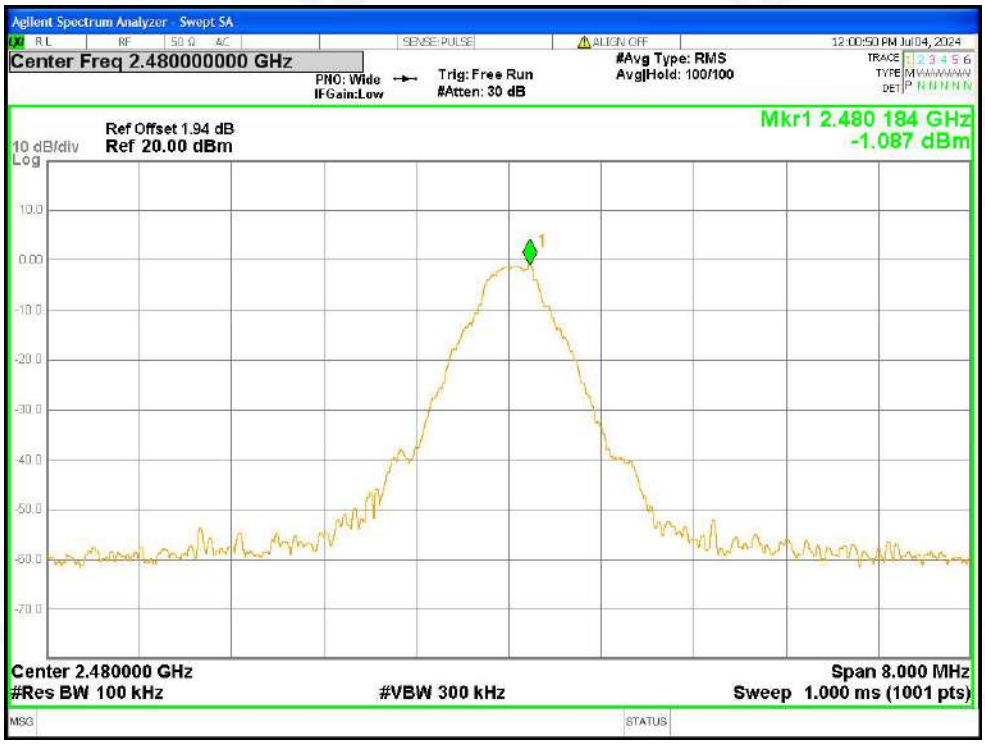
Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



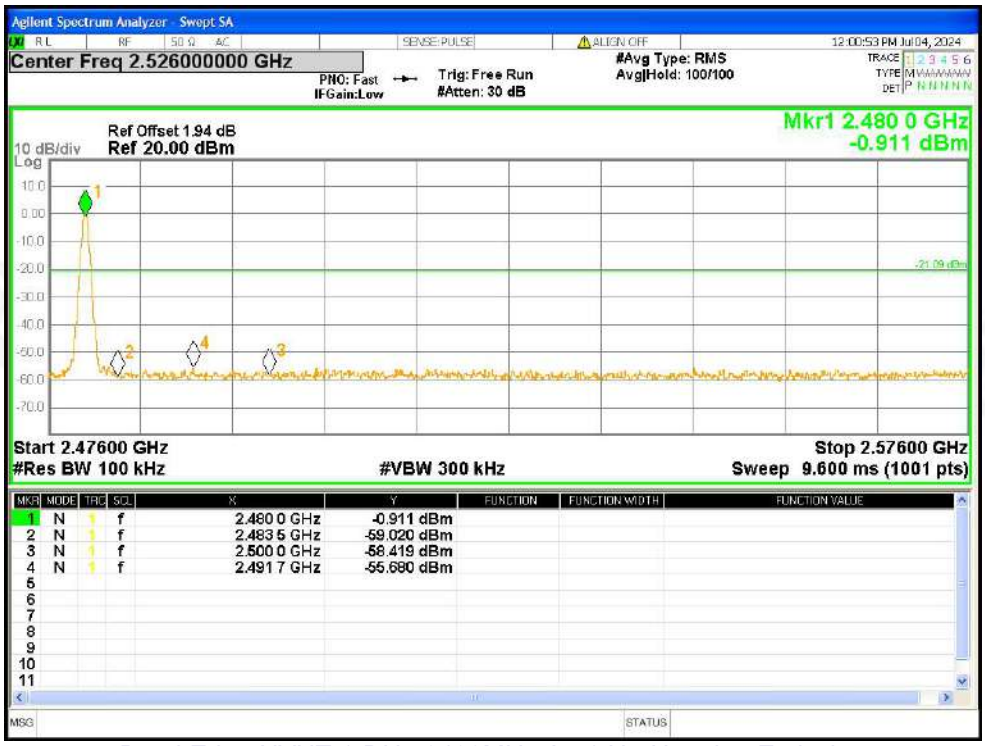
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



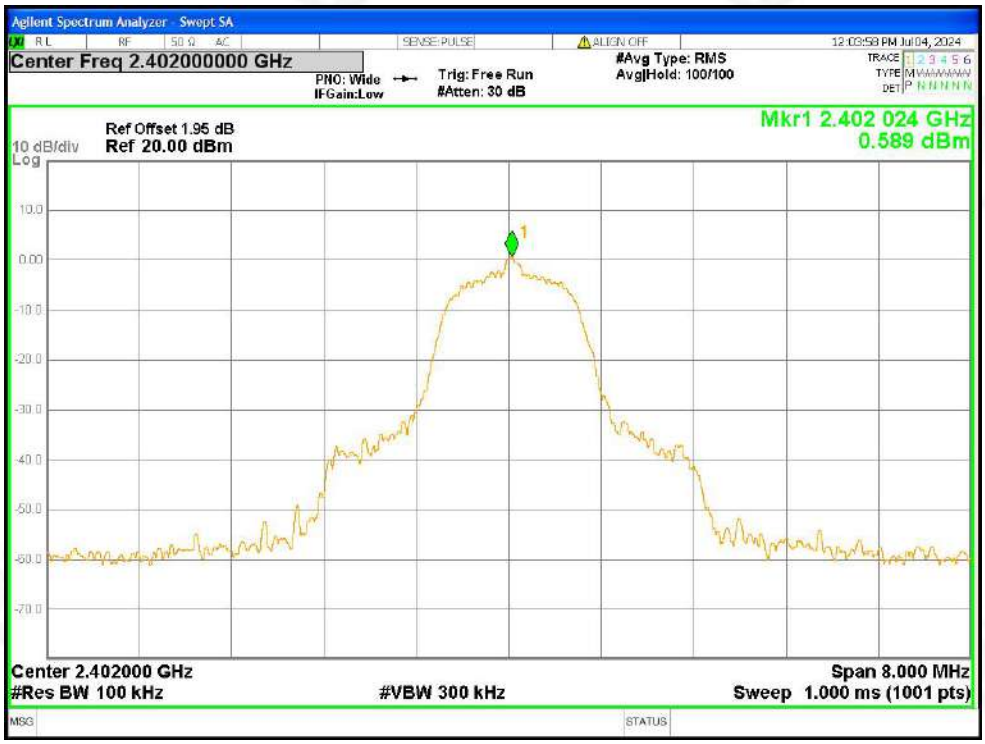
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



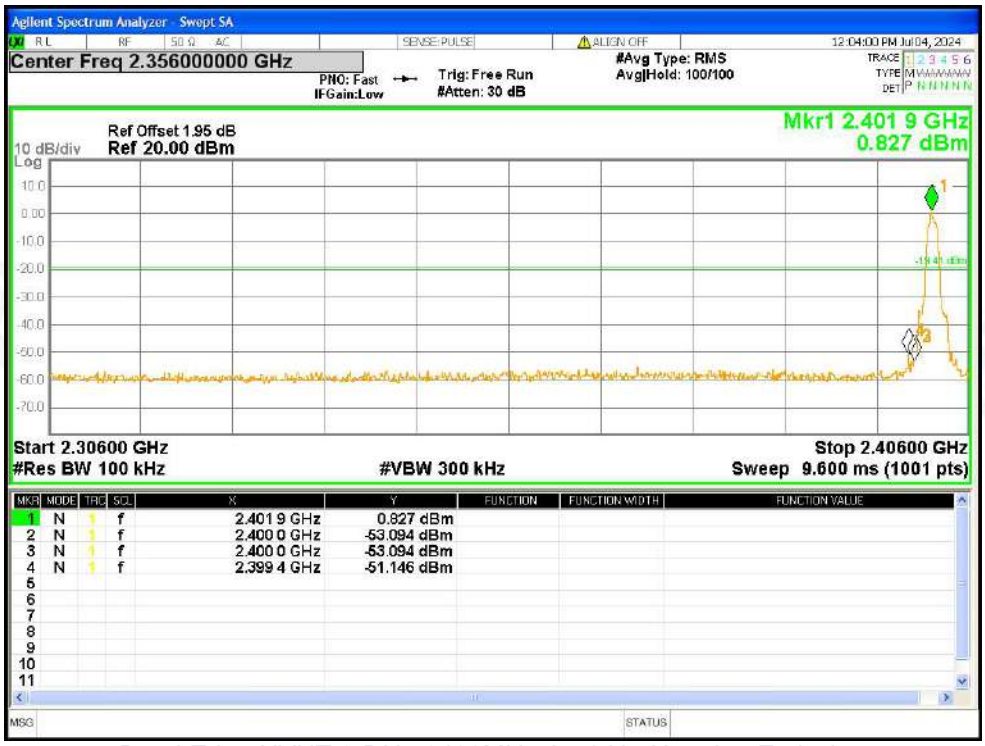
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

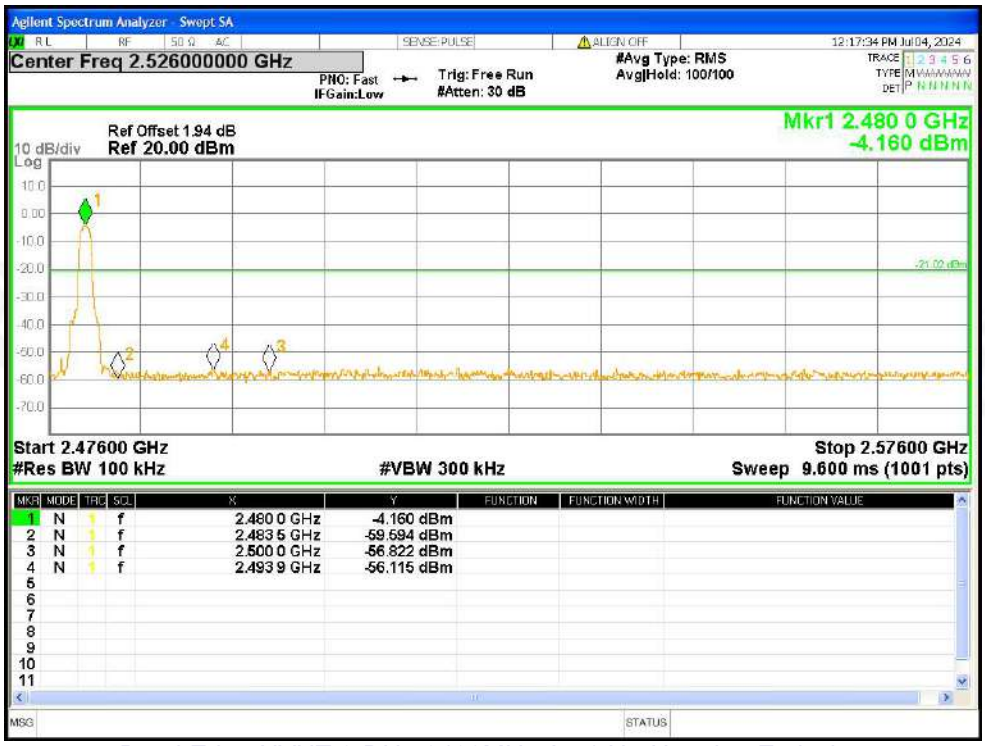


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

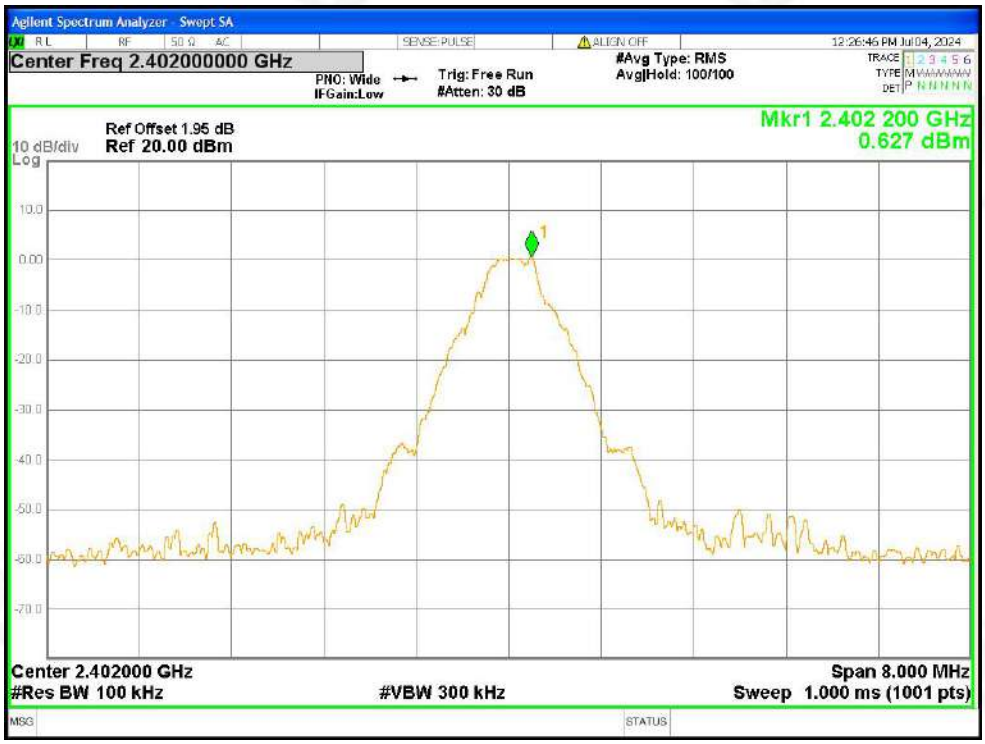


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

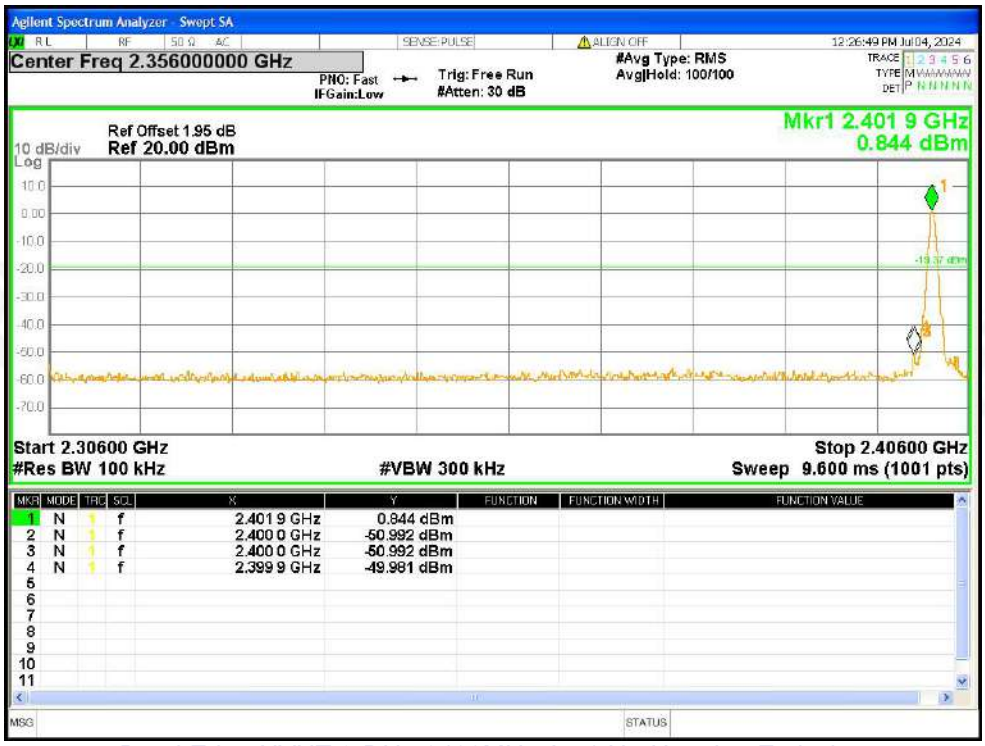
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

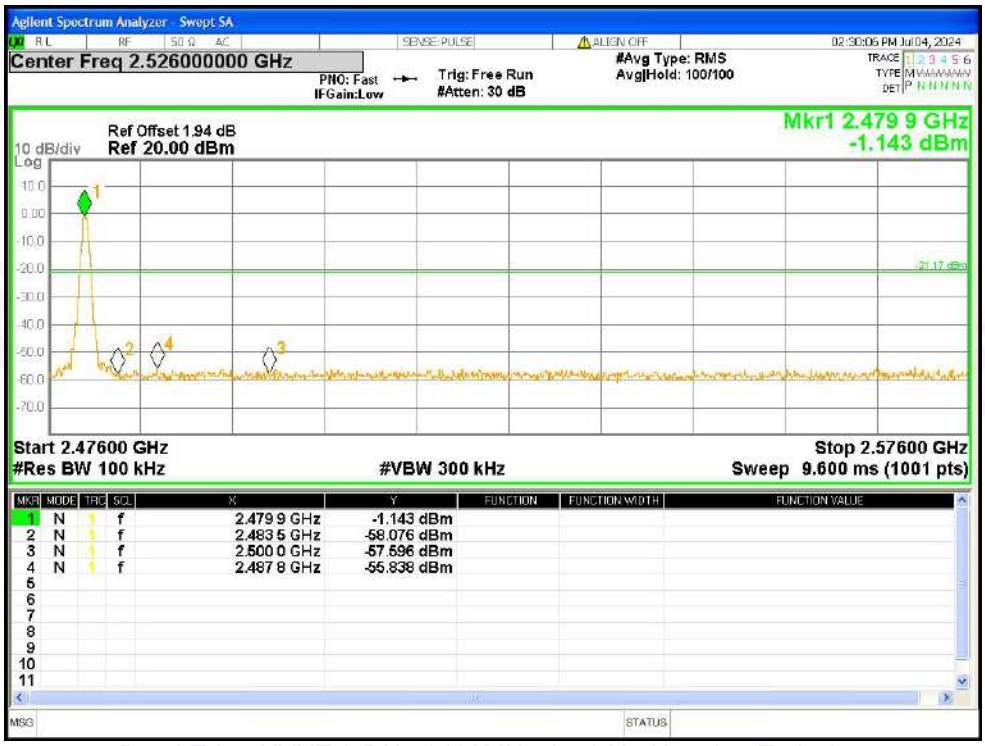


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



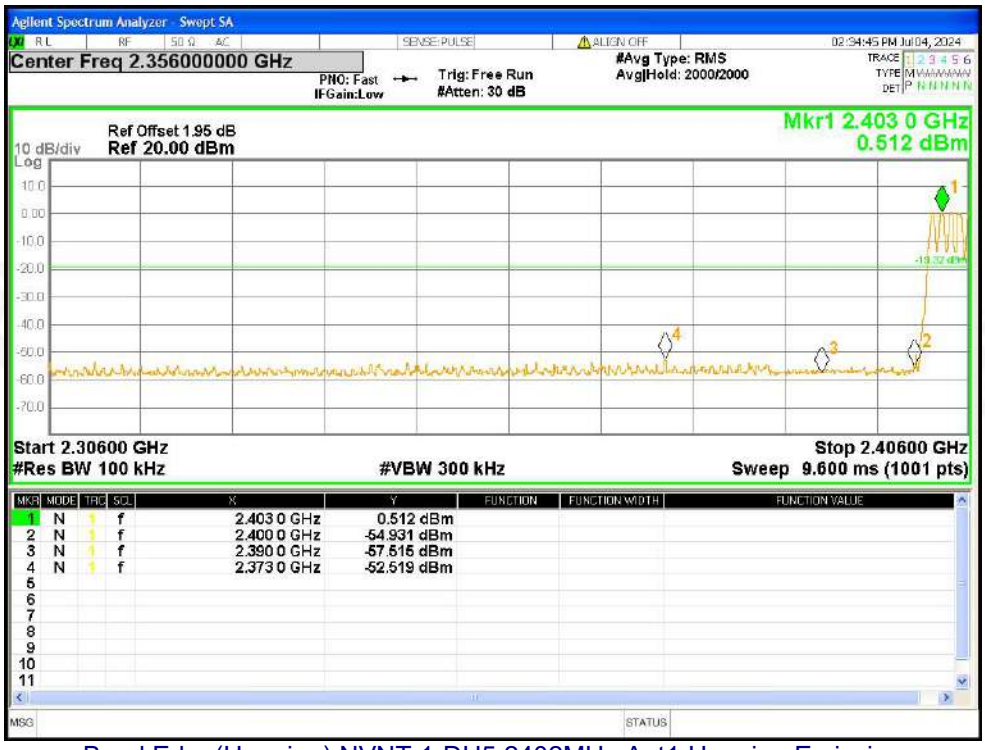
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



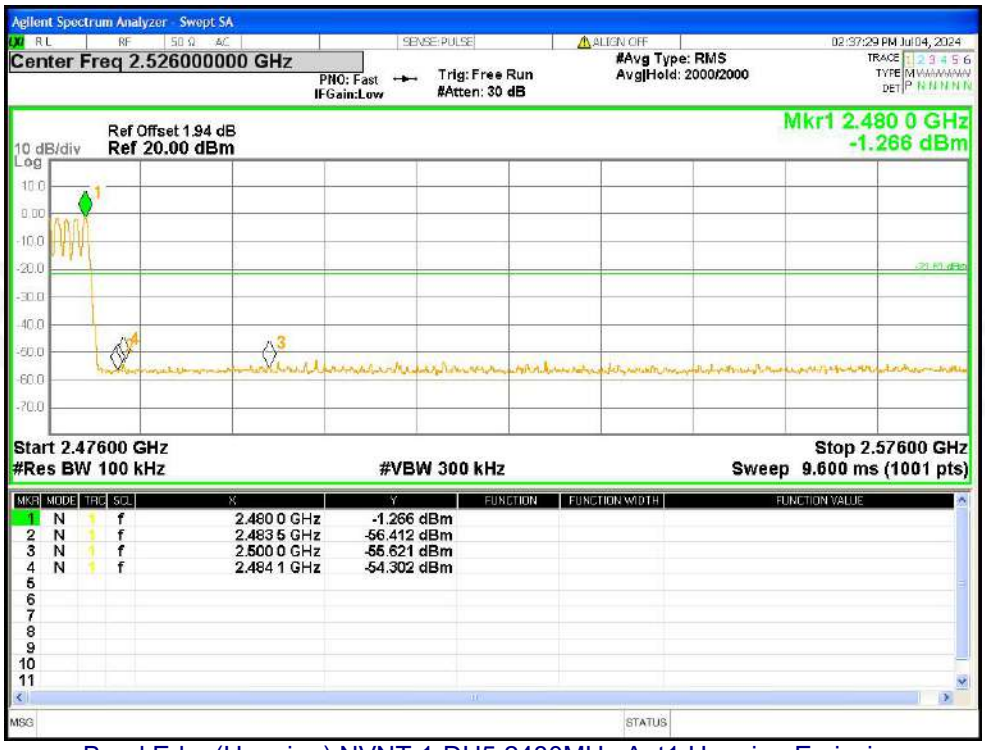
Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



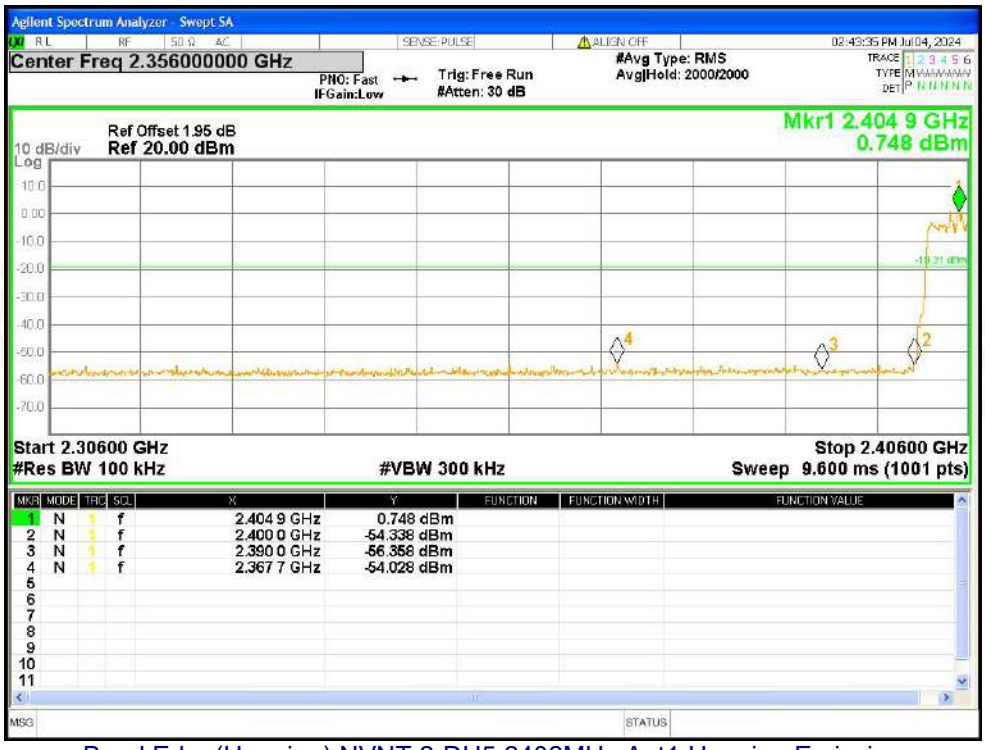
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



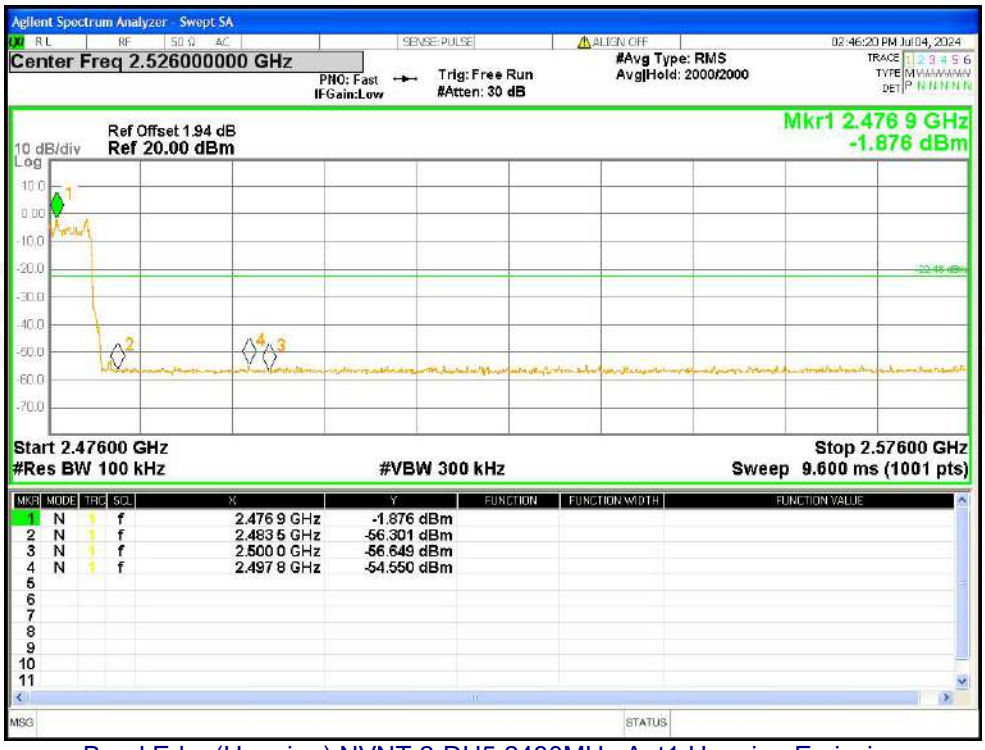
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



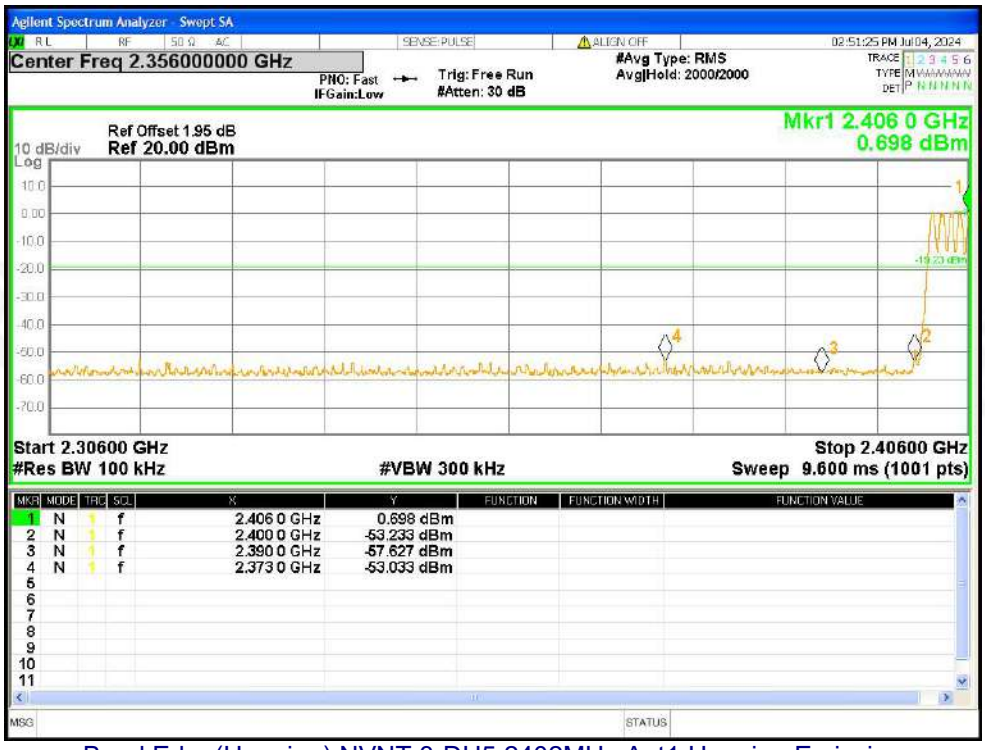
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



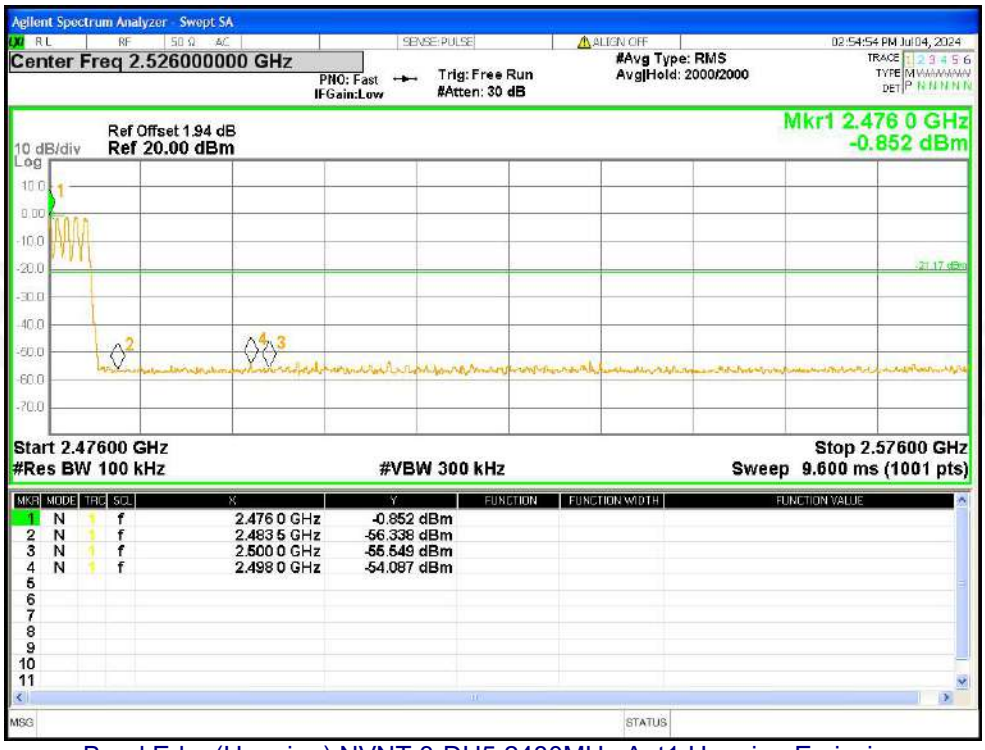
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



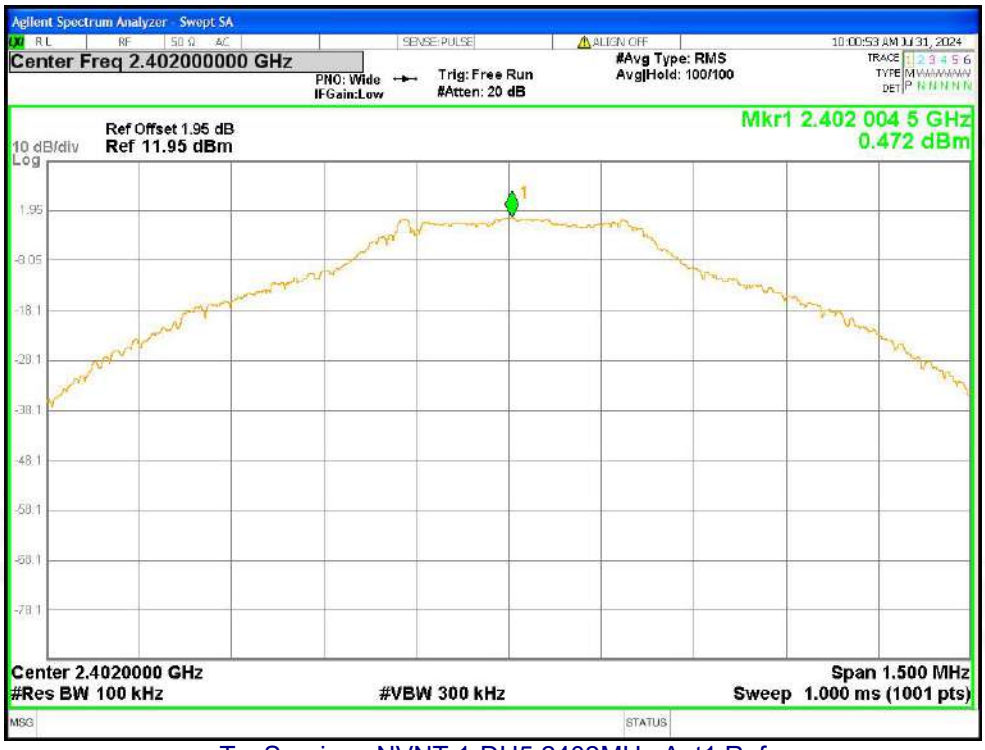
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

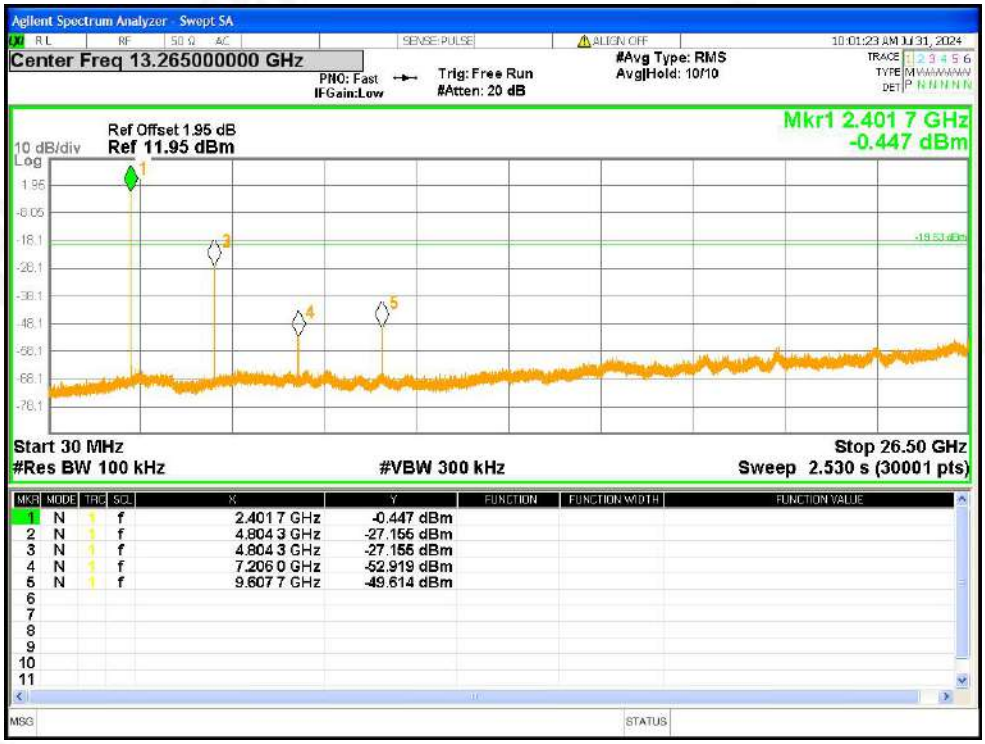


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

(right)

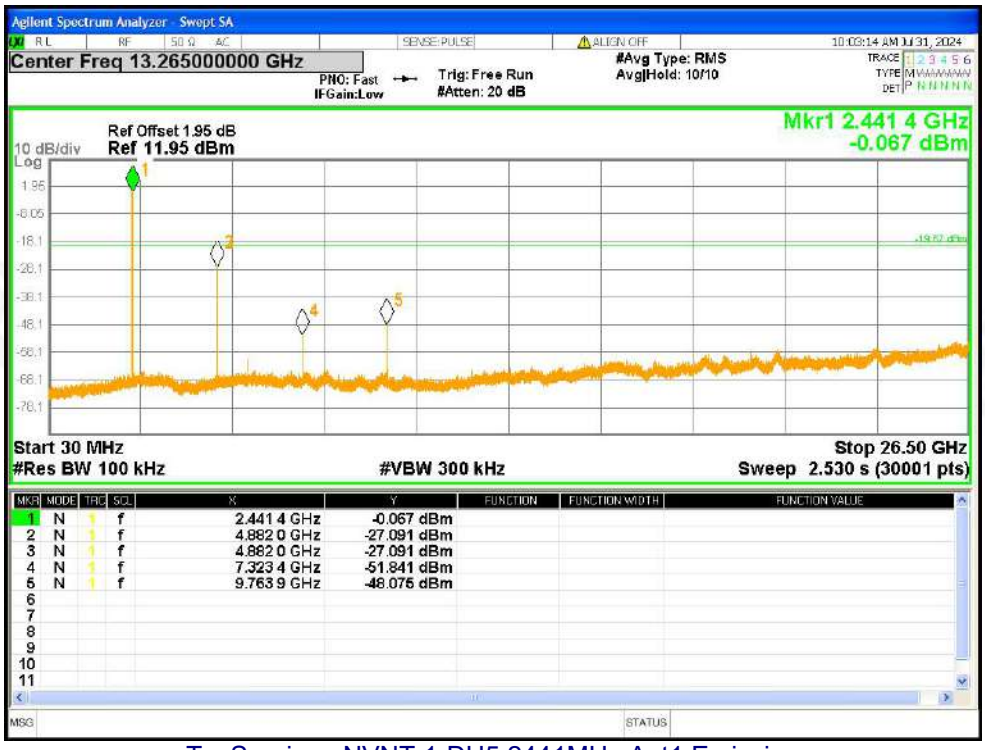


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



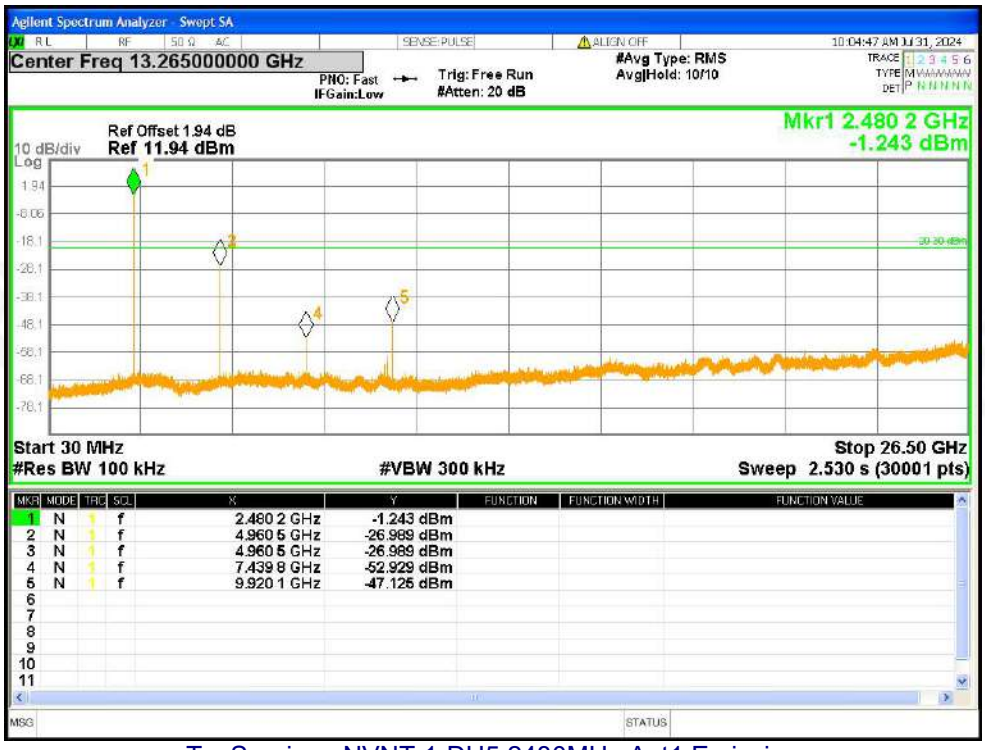
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



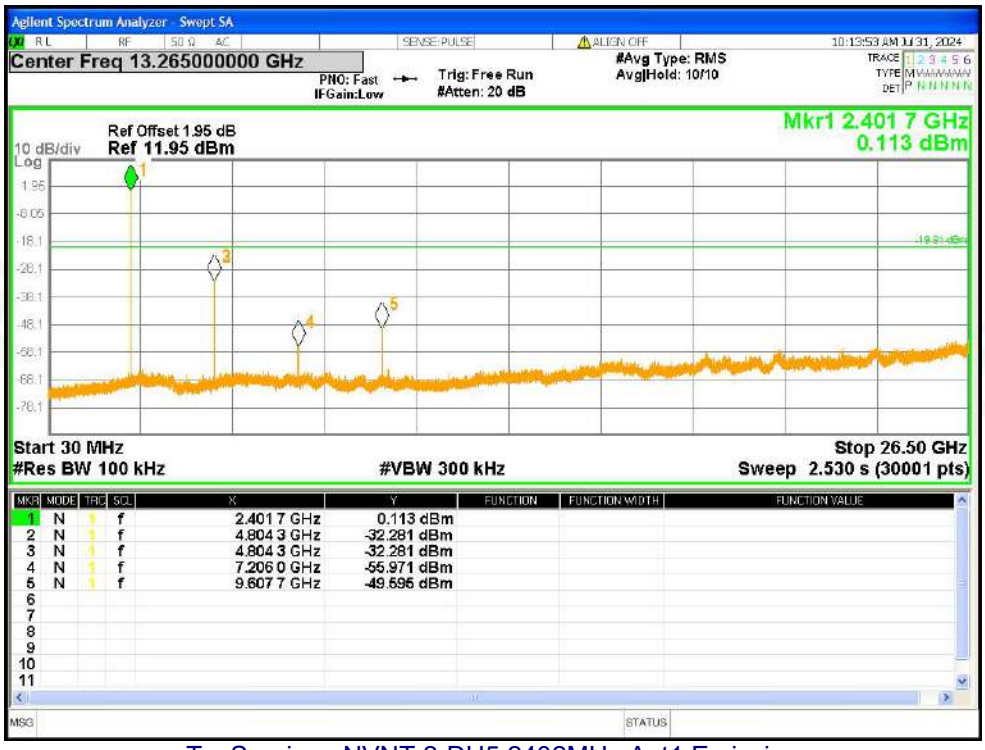
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



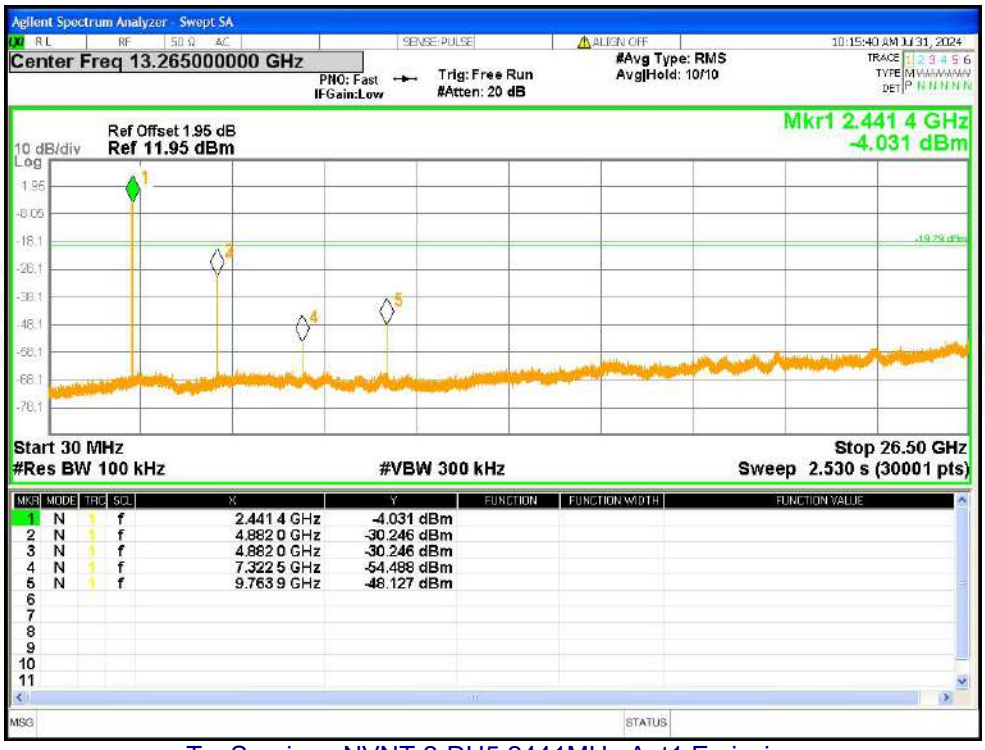
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



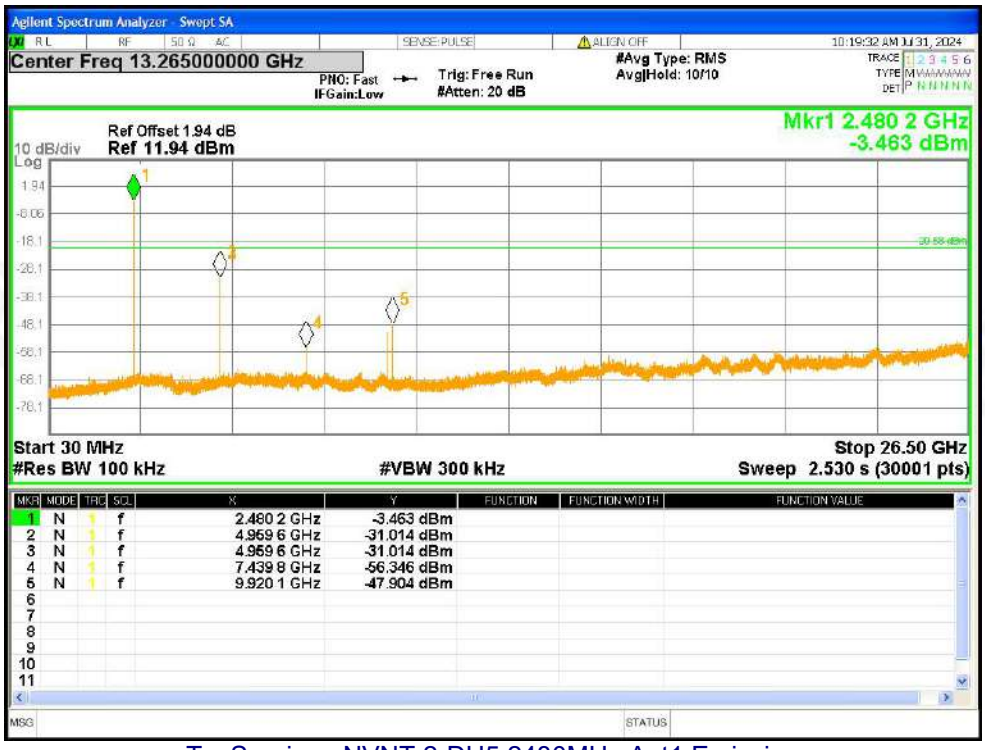
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



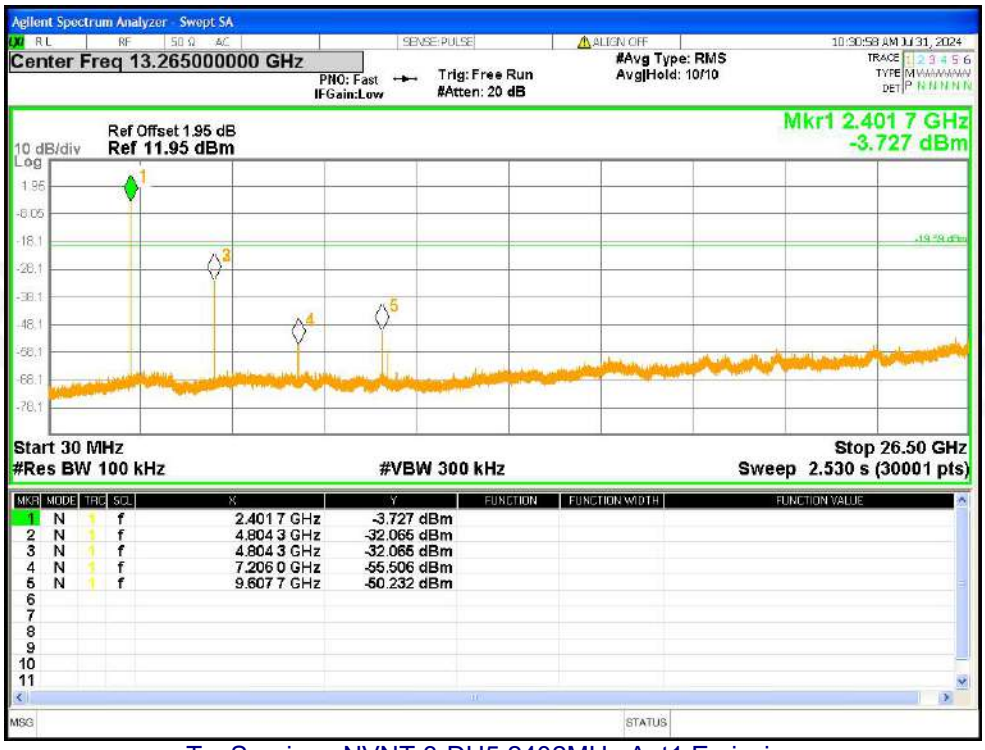
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



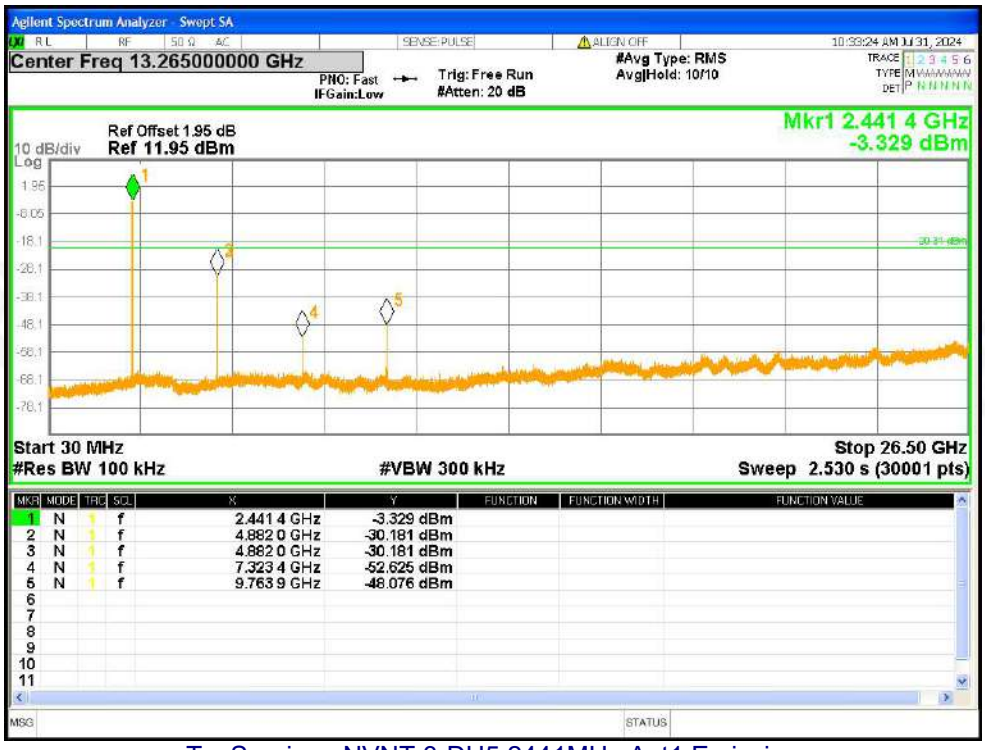
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



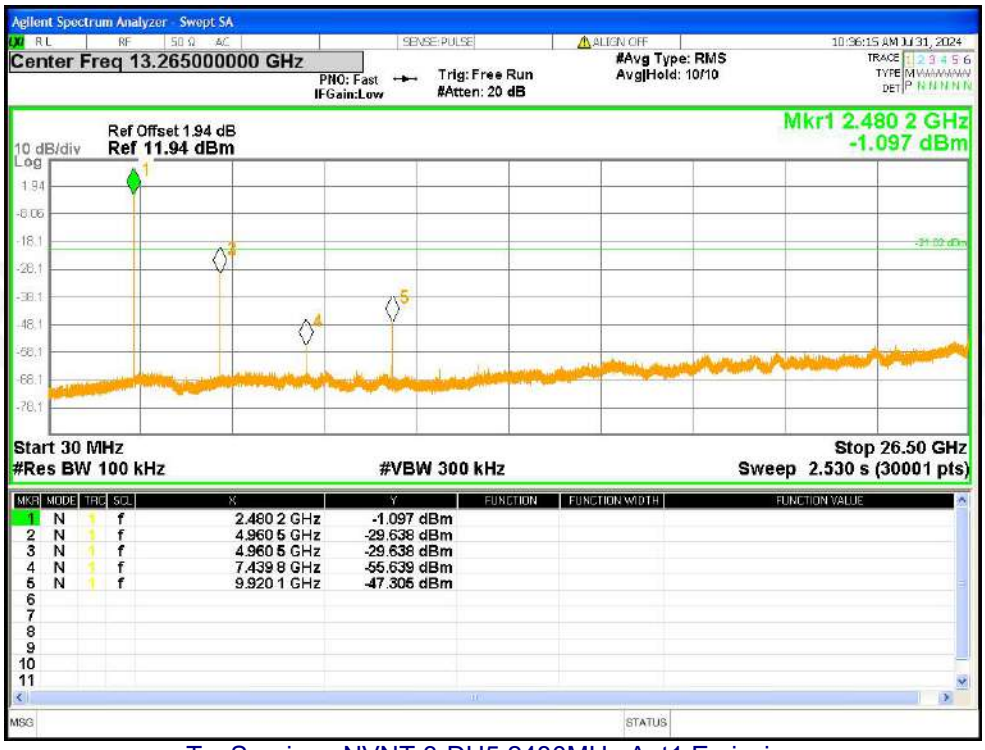
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission