FCC TEST REPORT
FCC ID:2BCJE-MD

Report Number.....:	**ZKT-240426L4348E**
Date of Test.....:	Apr. 10, 2024 to Apr. 19, 2024
Date of issue.....:	Apr. 19, 2024
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 .....:	**Shenzhen Xinke Meida Communication Co., Ltd.**
Address ..... :	Room 201, Building 2, Free Wood Factory, No.12, Zhangbei Meiying Lane, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen
Manufacturer's name .....:	**Shenzhen Xinke Meida Communication Co., Ltd.**
Address ..... :	Room 201, Building 2, Free Wood Factory, No.12, Zhangbei Meiying Lane, Zhangbei Community, Longcheng Street, Longgang District, Shenzhen
Test specification:	
Standard.....:	FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test procedure.....:	KDB558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013
Non-standard test method .....:	N/A

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.
This report shall not be reproduced except in full, without the written approval of ZKT, this document may be altered or revised by ZKT, personal only, and shall be noted in the revision of the document.

Product name.....:	**Wireless Headphones**
Trademark .....:	/
Model/Type reference :	MD, MD03, MD04, MD05, MD06, MD41, MD118, MD128, MD138, MD158, MD168, MD188, MD198, MD618, MD638, MD528, MD538, MD558, MD568, MD598, RD, RD03, RD21, RD23, RD31, RD36 RD39，RD40, M100, MINI, MINI12, MINI13, MINI14, BT, BT600, BT700, Y29, Y99, P90
Model Difference.....:	MD is tested model, other models are derivative models .The models are identical in circuit, only different on the model names, appearance color, charging case appearance color, charging case size and charging case shape. So the test data of MD can represent the remaining models.
Ratings..... :	Charging box Input: DC 5 V, 40mA Earphone: DC 3.7 V by battery

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).....:	Jim Liu Jim Liu
Reviewer (name + signature)..... :	Tom Zou Tom Zou
Approved (name + signature)..... :	Lake Xie Shenzhen ZKT Technology Co., Ltd. Approved Lake Xie

Table of Contents

Page

1. VERSION 5
2. TEST SUMMARY 6
2.1 TEST FACILITY 7
2.2 MEASUREMENT UNCERTAINTY 7
3. GENERAL INFORMATION 8
3.1 GENERAL DESCRIPTION OF EUT 8
3.2 Test Setup Configuration 9
3.3 Support Equipment 10
3.4 Test Mode 10
3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS 11
4. EMC EMISSION TEST 13
4.1 Conducted emissions 13
4.1.1 POWER LINE CONDUCTED EMISSION Limits 13
4.1.2 TEST PROCEDURE 13
4.1.3 DEVIATION FROM TEST STANDARD 13
4.1.4 TEST SETUP 14
4.1.5 EUT OPERATING CONDITIONS 14
4.2 Radiated emissions 15
4.2.1 Radiated Emission Limits 15
4.2.2 TEST PROCEDURE 15
4.2.3 DEVIATION FROM TEST STANDARD 16
4.2.4 TEST SETUP 16
4.2.5 EUT OPERATING CONDITIONS 17
4.2.6 TEST RESULTS 18
5.1 Test Requirement: 34
5.2 TEST PROCEDURE 34
5.3 DEVIATION FROM TEST STANDARD 35
5.4 TEST SETUP 35
5.5 EUT OPERATING CONDITIONS 35
5.6 TEST RESULT 36
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION 40
6.1 Limit 40
6.2 Test Setup 40
6.3 Test procedure 40
6.4 DEVIATION FROM STANDARD 40
6.5 Test Result 41
7. 20DB&99% BANDWIDTH 62
7.1 Test Setup 62
7.2 Limit 62
7.3 Test procedure 62
7.4 DEVIATION FROM STANDARD 62
7.5 Test Result 62
8. MAXIMUM PEAK OUTPUT POWER 68
8.1 Block Diagram Of Test Setup 68
8.2 Limit 68
8.3 Test procedure 68
8.4 DEVIATION FROM STANDARD 68
8.5 Test Result 68
9. HOPPING CHANNEL SEPARATION 78
9.1 Test Setup 78
9.2 Test procedure 78
9.3 DEVIATION FROM STANDARD 78
10.NUMBER OF HOPPING FREQUENCY 85
10.1 Test Setup 85

10.2 Test procedure 85
10.3 DEVIATION FROM STANDARD 85
11.1 Test Setup 91
11.2 Test procedure 91
11.3 DEVIATION FROM STANDARD 91
11.4 Test Result 92
13. TEST SETUP PHOTO 103
14. EUT CONSTRUCTIONAL DETAILS 103

1. VERSION

Report No.	Version	Description	Approved
ZKT-240426L4348E	Rev.01	Initial issue of report	Apr. 19, 2024

2. TEST SUMMARY

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
FCC part 15.203/15.247 (b)(4)	Antenna Requirement	PASS	
15.207	AC Power Line Conducted Emission	N/A	
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) The RF chips of the left and right earphones are the same, with differences in circuit layout. The RF output power of the left and right earphones is not significantly different, while the RF output power of the left earphone is slightly larger than that of the right earphone. So chose the left earphone for all the tests, while the left earphone was tested for radiation emissions and radiation spurious tests.

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

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 conducted power	±0.16dB
3	Conducted spurious emissions	±0.21dB
4	All radiated emissions (9k-30MHz)	±4.68dB
5	All radiated emissions (<1G)	±4.68dB
6	All radiated emissions (>1G)	±4.89dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	Occupied Bandwidth	±4.96%

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Wireless Headphones
Test Model No.:	MD
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Channel numbers:	79
Channel separation:	2402MHz-2480MHz
Modulation technology:	GFSK, π/4DQPSK, 8DPSK
Antenna Type:	Chip antenna
Antenna gain:	1.5dBi
Power supply:	Charging box Input: DC 5 V, 40mA Earphone: DC 3.7 V by battery

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		

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

3.2 Test Setup Configuration

EUT
E-1

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
E-1	Adapter	N/A	HW-059200CHQ	N/A	AE

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.	

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation 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.

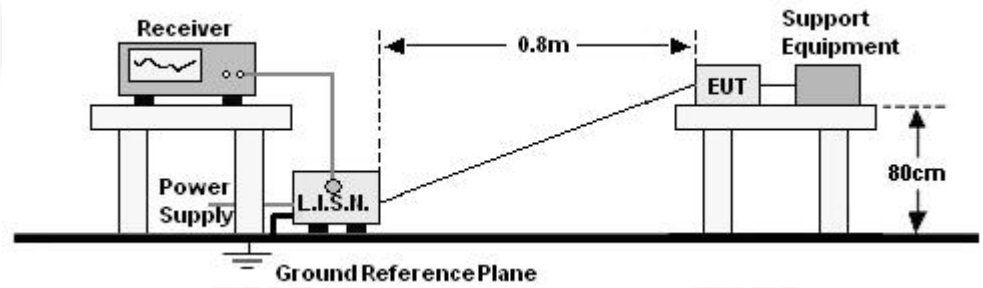
4.1.2 TEST PROCEDURE

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



4.1.5 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.

4.1.6 Test Result

Not applicable in this Test Report,because the Wireless Headphones don't work while charging

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 0.8 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:

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:

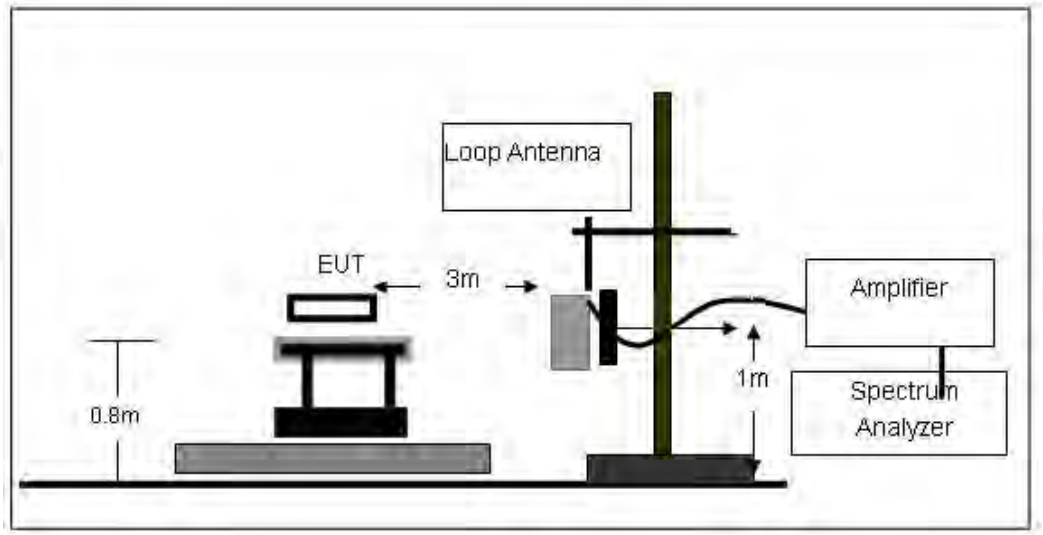
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

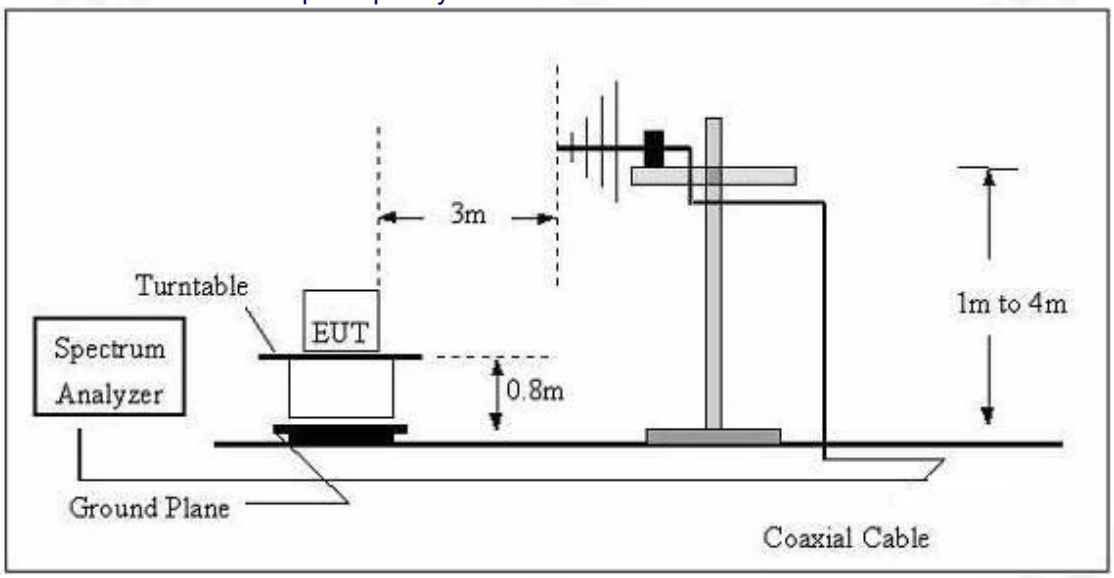
No deviation

4.2.4 TEST SETUP

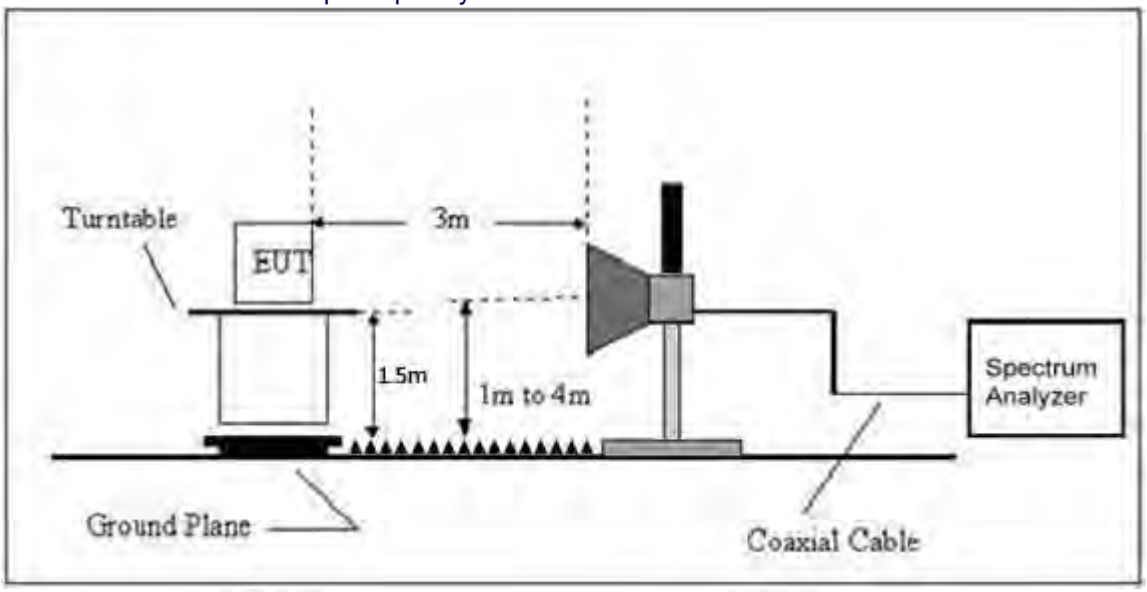
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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.

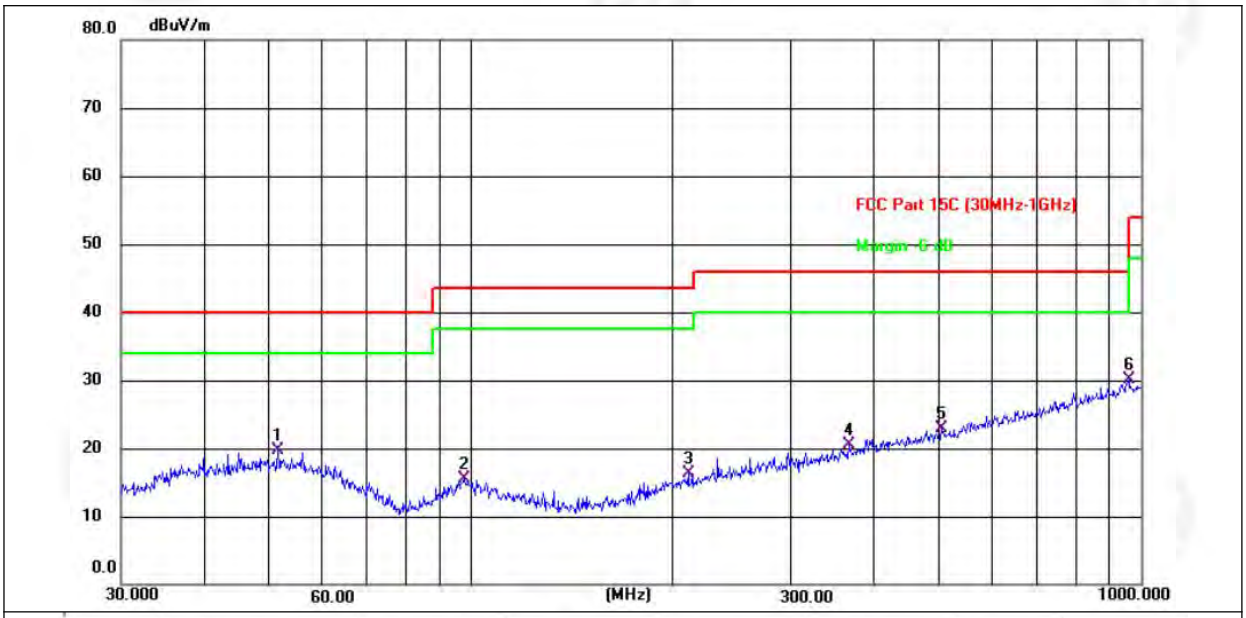
4.2.6 TEST RESULTS

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), the test result no need to reported.

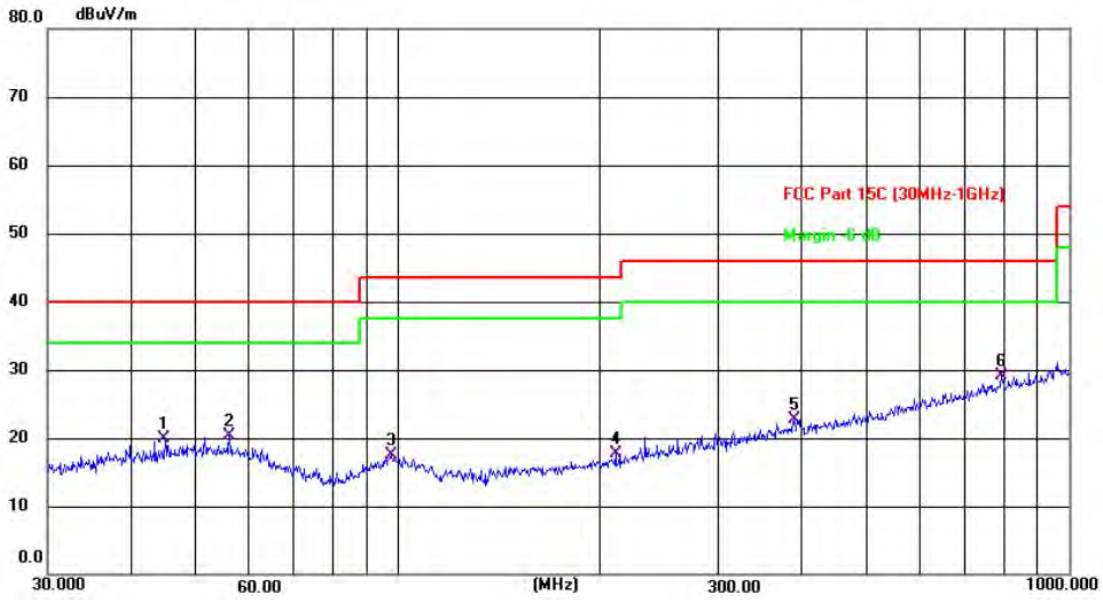
Between 30MHz – 1GHz (Earphone Left)

Temperature:	25.6℃	Relative Humidity:	47%
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	51.4806	28.56	-8.89	19.67	40.00	-20.33	QP
2	97.7980	26.87	-11.28	15.59	43.50	-27.91	QP
3	210.7860	26.74	-10.49	16.25	43.50	-27.25	QP
4	366.8231	27.04	-6.52	20.52	46.00	-25.48	QP
5	502.9395	26.91	-4.03	22.88	46.00	-23.12	QP
6 *	958.7943	27.44	2.73	30.17	46.00	-15.83	QP

Temperature:	25.6℃	Relative Humidity:	47%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V		

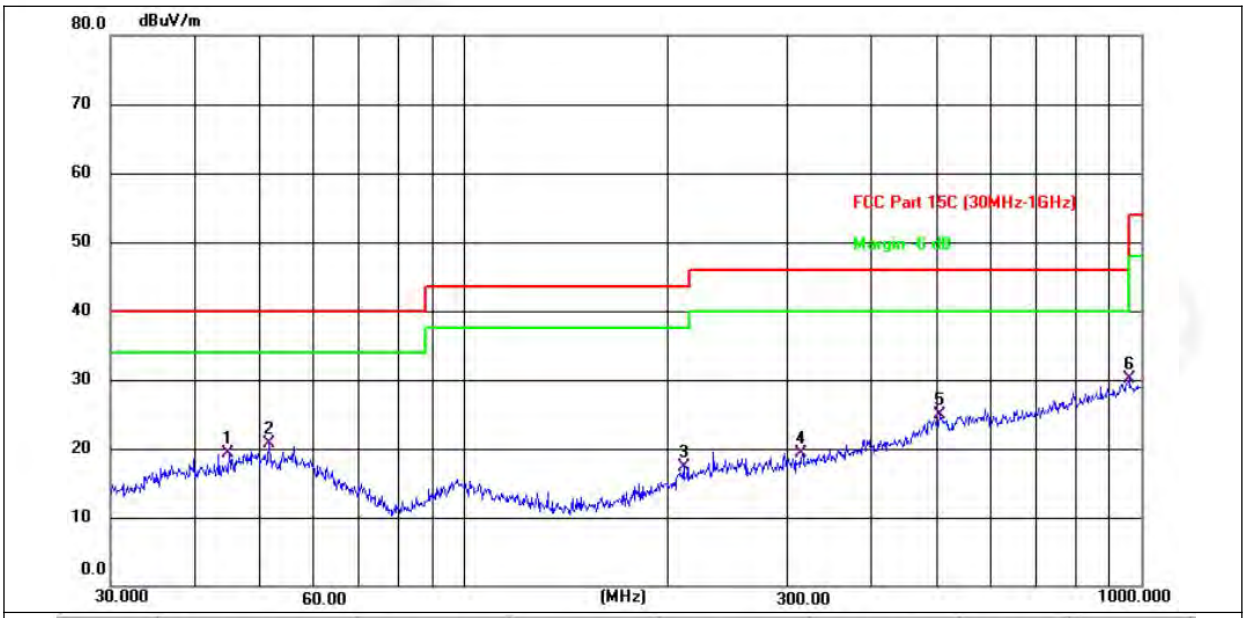


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	44.9004	29.04	-9.23	19.81	40.00	-20.19	QP
2	56.0007	29.61	-9.39	20.22	40.00	-19.78	QP
3	97.7980	28.87	-11.28	17.59	43.50	-25.91	QP
4	210.7860	28.24	-10.49	17.75	43.50	-25.75	QP
5	389.3548	28.77	-6.00	22.77	46.00	-23.23	QP
6 *	793.3960	28.42	0.59	29.01	46.00	-16.99	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(Low Channel:2402MHz).

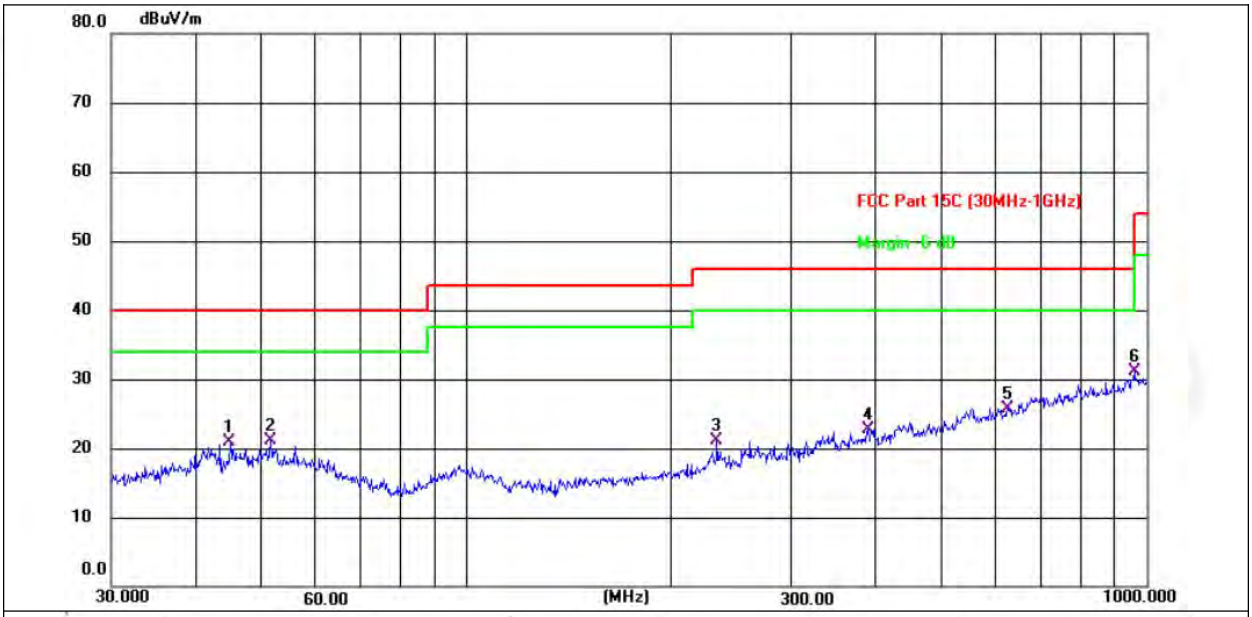
Between 30MHz – 1GHz (Earphone Right)

Temperature:	25.6℃	Relative Humidity:	47%
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	44.9004	28.54	-9.23	19.31	40.00	-20.69	QP
2	51.4806	29.56	-8.89	20.67	40.00	-19.33	QP
3	210.7860	27.74	-10.49	17.25	43.50	-26.25	QP
4	315.4806	27.05	-7.69	19.36	46.00	-26.64	QP
5	502.9395	28.91	-4.03	24.88	46.00	-21.12	QP
6 *	958.7943	27.44	2.73	30.17	46.00	-15.83	QP

Temperature:	25.6℃	Relative Humidity:	47%
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	44.9004	30.04	-9.23	20.81	40.00	-19.19	QP
2	51.4806	30.06	-8.89	21.17	40.00	-18.83	QP
3	233.3486	30.69	-9.67	21.02	46.00	-24.98	QP
4	389.3548	28.77	-6.00	22.77	46.00	-23.23	QP
5	625.0780	27.65	-1.85	25.80	46.00	-20.20	QP
6 *	958.7943	28.44	2.73	31.17	46.00	-14.83	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(Low Channel:2402MHz).

1GHz~25GHz(Earphone Left)

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	57.44	30.55	5.77	24.66	57.32	74	-16.68	Pk
V	4804.00	44.26	30.55	5.77	24.66	44.14	54	-9.86	AV
V	7206.00	57.29	30.33	6.32	24.55	57.83	74	-16.17	Pk
V	7206.00	41.73	30.33	6.32	24.55	42.27	54	-11.73	AV
V	9608.00	59.53	30.55	5.77	24.66	59.41	74	-14.59	Pk
V	9608.00	44.74	30.55	5.77	24.66	44.62	54	-9.38	AV
V	12010.00	59.27	30.33	6.32	24.55	59.81	74	-14.19	Pk
V	12010.00	43.46	30.33	6.32	24.55	44	54	-10	AV
H	4804.00	57.93	30.55	5.77	24.66	57.81	74	-16.19	Pk
H	4804.00	41.96	30.55	5.77	24.66	41.84	54	-12.16	AV
H	7206.00	59.17	30.33	6.32	24.55	59.71	74	-14.29	Pk
H	7206.00	44.31	30.33	6.32	24.55	44.85	54	-9.15	AV
H	9608.00	55.22	30.55	5.77	24.66	55.1	74	-18.9	Pk
H	9608.00	41.59	30.55	5.77	24.66	41.47	54	-12.53	AV
H	12010.00	59.51	30.33	6.32	24.55	60.05	74	-13.95	Pk
H	12010.00	41.97	30.33	6.32	24.55	42.51	54	-11.49	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	56.51	30.55	5.77	24.66	56.39	74	-17.61	Pk
V	4882.00	41.25	30.55	5.77	24.66	41.13	54	-12.87	AV
V	7323.00	57.31	30.33	6.32	24.55	57.85	74	-16.15	Pk
V	7323.00	43.97	30.33	6.32	24.55	44.51	54	-9.49	AV
V	9764.00	57.38	30.55	5.77	24.66	57.26	74	-16.74	Pk
V	9764.00	43.16	30.55	5.77	24.66	43.04	54	-10.96	AV
V	12205.00	59.31	30.33	6.32	24.55	59.85	74	-14.15	Pk
V	12205.00	41.8	30.33	6.32	24.55	42.34	54	-11.66	AV
H	4882.00	56.9	30.55	5.77	24.66	56.78	74	-17.22	Pk
H	4882.00	44.6	30.55	5.77	24.66	44.48	54	-9.52	AV
H	7323.00	56.82	30.33	6.32	24.55	57.36	74	-16.64	Pk
H	7323.00	44.24	30.33	6.32	24.55	44.78	54	-9.22	AV
H	9764.00	56.49	30.55	5.77	24.66	56.37	74	-17.63	Pk
H	9764.00	44.93	30.55	5.77	24.66	44.81	54	-9.19	AV
H	12205.00	58.9	30.33	6.32	24.55	59.44	74	-14.56	Pk
H	12205.00	41.45	30.33	6.32	24.55	41.99	54	-12.01	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	55.32	30.55	5.77	24.66	55.2	74	-18.8	Pk
V	4960.00	41.52	30.55	5.77	24.66	41.4	54	-12.6	AV
V	7440.00	58.28	30.33	6.32	24.55	58.82	74	-15.18	Pk
V	7440.00	44.73	30.33	6.32	24.55	45.27	54	-8.73	AV
V	9920.00	59.71	30.55	5.77	24.66	59.59	74	-14.41	Pk
V	9920.00	41.18	30.55	5.77	24.66	41.06	54	-12.94	AV
V	12400.00	58.91	30.33	6.32	24.55	59.45	74	-14.55	Pk
V	12400.00	41.37	30.33	6.32	24.55	41.91	54	-12.09	AV
H	4960.00	56.5	30.55	5.77	24.66	56.38	74	-17.62	Pk
H	4960.00	41	30.55	5.77	24.66	40.88	54	-13.12	AV
H	7440.00	55.68	30.33	6.32	24.55	56.22	74	-17.78	Pk
H	7440.00	44.22	30.33	6.32	24.55	44.76	54	-9.24	AV
H	9920.00	55.58	30.55	5.77	24.66	55.46	74	-18.54	Pk
H	9920.00	41.88	30.55	5.77	24.66	41.76	54	-12.24	AV
H	12400.00	57.03	30.33	6.32	24.55	57.57	74	-16.43	Pk
H	12400.00	44.41	30.33	6.32	24.55	44.95	54	-9.05	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/4DQPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	55.08	30.55	5.77	24.66	54.96	74	-19.04	Pk
V	4804.00	41.07	30.55	5.77	24.66	40.95	54	-13.05	AV
V	7206.00	59.17	30.33	6.32	24.55	59.71	74	-14.29	Pk
V	7206.00	44.63	30.33	6.32	24.55	45.17	54	-8.83	AV
V	9608.00	58.76	30.55	5.77	24.66	58.64	74	-15.36	Pk
V	9608.00	41.07	30.55	5.77	24.66	40.95	54	-13.05	AV
V	12010.00	57.13	30.33	6.32	24.55	57.67	74	-16.33	Pk
V	12010.00	41.65	30.33	6.32	24.55	42.19	54	-11.81	AV
H	4804.00	56.96	30.55	5.77	24.66	56.84	74	-17.16	Pk
H	4804.00	41.66	30.55	5.77	24.66	41.54	54	-12.46	AV
H	7206.00	58.81	30.33	6.32	24.55	59.35	74	-14.65	Pk
H	7206.00	41.91	30.33	6.32	24.55	42.45	54	-11.55	AV
H	9608.00	57.65	30.55	5.77	24.66	57.53	74	-16.47	Pk
H	9608.00	41.7	30.55	5.77	24.66	41.58	54	-12.42	AV
H	12010.00	57.35	30.33	6.32	24.55	57.89	74	-16.11	Pk
H	12010.00	41.82	30.33	6.32	24.55	42.36	54	-11.64	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	56.06	30.55	5.77	24.66	55.94	74	-18.06	Pk
V	4882.00	41.06	30.55	5.77	24.66	40.94	54	-13.06	AV
V	7323.00	58.24	30.33	6.32	24.55	58.78	74	-15.22	Pk
V	7323.00	43.18	30.33	6.32	24.55	43.72	54	-10.28	AV
V	9764.00	55.8	30.55	5.77	24.66	55.68	74	-18.32	Pk
V	9764.00	44.4	30.55	5.77	24.66	44.28	54	-9.72	AV
V	12205.00	58.03	30.33	6.32	24.55	58.57	74	-15.43	Pk
V	12205.00	44.38	30.33	6.32	24.55	44.92	54	-9.08	AV
H	4882.00	59.52	30.55	5.77	24.66	59.4	74	-14.6	Pk
H	4882.00	42.54	30.55	5.77	24.66	42.42	54	-11.58	AV
H	7323.00	56.35	30.33	6.32	24.55	56.89	74	-17.11	Pk
H	7323.00	41.59	30.33	6.32	24.55	42.13	54	-11.87	AV
H	9764.00	57.23	30.55	5.77	24.66	57.11	74	-16.89	Pk
H	9764.00	44.84	30.55	5.77	24.66	44.72	54	-9.28	AV
H	12205.00	57.78	30.33	6.32	24.55	58.32	74	-15.68	Pk
H	12205.00	43.15	30.33	6.32	24.55	43.69	54	-10.31	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	56.27	30.55	5.77	24.66	56.15	74	-17.85	Pk
V	4960.00	41.1	30.55	5.77	24.66	40.98	54	-13.02	AV
V	7440.00	56.64	30.33	6.32	24.55	57.18	74	-16.82	Pk
V	7440.00	41.91	30.33	6.32	24.55	42.45	54	-11.55	AV
V	9920.00	59.35	30.55	5.77	24.66	59.23	74	-14.77	Pk
V	9920.00	41.29	30.55	5.77	24.66	41.17	54	-12.83	AV
V	12400.00	55.89	30.33	6.32	24.55	56.43	74	-17.57	Pk
V	12400.00	41.4	30.33	6.32	24.55	41.94	54	-12.06	AV
H	4960.00	55.31	30.55	5.77	24.66	55.19	74	-18.81	Pk
H	4960.00	41.4	30.55	5.77	24.66	41.28	54	-12.72	AV
H	7440.00	57.52	30.33	6.32	24.55	58.06	74	-15.94	Pk
H	7440.00	44.41	30.33	6.32	24.55	44.95	54	-9.05	AV
H	9920.00	59.25	30.55	5.77	24.66	59.13	74	-14.87	Pk
H	9920.00	44.56	30.55	5.77	24.66	44.44	54	-9.56	AV
H	12400.00	58.46	30.33	6.32	24.55	59	74	-15	Pk
H	12400.00	41.13	30.33	6.32	24.55	41.67	54	-12.33	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.

8DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	55.16	30.55	5.77	24.66	55.04	74	-18.96	Pk
V	4804.00	41.21	30.55	5.77	24.66	41.09	54	-12.91	AV
V	7206.00	59.29	30.33	6.32	24.55	59.83	74	-14.17	Pk
V	7206.00	44.64	30.33	6.32	24.55	45.18	54	-8.82	AV
V	9608.00	58.87	30.55	5.77	24.66	58.75	74	-15.25	Pk
V	9608.00	41.15	30.55	5.77	24.66	41.03	54	-12.97	AV
V	12010.00	57.29	30.33	6.32	24.55	57.83	74	-16.17	Pk
V	12010.00	41.74	30.55	5.77	24.66	41.62	54	-12.38	AV
H	4804.00	57.15	30.55	5.77	24.66	57.03	74	-16.97	Pk
H	4804.00	41.82	30.33	6.32	24.55	42.36	54	-11.64	AV
H	7206.00	58.99	30.33	6.32	24.55	59.53	74	-14.47	Pk
H	7206.00	41.96	30.55	5.77	24.66	41.84	54	-12.16	AV
H	9608.00	57.75	30.55	5.77	24.66	57.63	74	-16.37	Pk
H	9608.00	41.82	30.33	6.32	24.55	42.36	54	-11.64	AV
H	12010.00	57.42	30.33	6.32	24.55	57.96	74	-16.04	Pk
H	12010.00	41.89	30.55	5.77	24.66	41.77	54	-12.23	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	58.04	30.55	5.77	24.66	57.92	74	-16.08	Pk
V	4882.00	41.44	30.55	5.77	24.66	41.32	54	-12.68	AV
V	7323.00	58.08	30.33	6.32	24.55	58.62	74	-15.38	Pk
V	7323.00	42.01	30.33	6.32	24.55	42.55	54	-11.45	AV
V	9764.00	58.83	30.55	5.77	24.66	58.71	74	-15.29	Pk
V	9764.00	42.81	30.55	5.77	24.66	42.69	54	-11.31	AV
V	12205.00	56.1	30.33	6.32	24.55	56.64	74	-17.36	Pk
V	12205.00	44.91	30.33	6.32	24.55	45.45	54	-8.55	AV
H	4882.00	55.26	30.55	5.77	24.66	55.14	74	-18.86	Pk
H	4882.00	41.13	30.55	5.77	24.66	41.01	54	-12.99	AV
H	7323.00	58.58	30.33	6.32	24.55	59.12	74	-14.88	Pk
H	7323.00	41.18	30.33	6.32	24.55	41.72	54	-12.28	AV
H	9764.00	55.5	30.55	5.77	24.66	55.38	74	-18.62	Pk
H	9764.00	41.95	30.55	5.77	24.66	41.83	54	-12.17	AV
H	12205.00	57.03	30.33	6.32	24.55	57.57	74	-16.43	Pk
H	12205.00	41.31	30.33	6.32	24.55	41.85	54	-12.15	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	57.91	30.55	5.77	24.66	57.79	74	-16.21	Pk
V	4960.00	41.91	30.55	5.77	24.66	41.79	54	-12.21	AV
V	7440.00	58.76	30.33	6.32	24.55	59.3	74	-14.7	Pk
V	7440.00	44.92	30.33	6.32	24.55	45.46	54	-8.54	AV
V	9920.00	57.69	30.55	5.77	24.66	57.57	74	-16.43	Pk
V	9920.00	44.49	30.55	5.77	24.66	44.37	54	-9.63	AV
V	12400.00	56.93	30.33	6.32	24.55	57.47	74	-16.53	Pk
V	12400.00	41.38	30.33	6.32	24.55	41.92	54	-12.08	AV
H	4960.00	58.79	30.55	5.77	24.66	58.67	74	-15.33	Pk
H	4960.00	41.09	30.55	5.77	24.66	40.97	54	-13.03	AV
H	7440.00	57.67	30.33	6.32	24.55	58.21	74	-15.79	Pk
H	7440.00	41.27	30.33	6.32	24.55	41.81	54	-12.19	AV
H	9920.00	57.35	30.55	5.77	24.66	57.23	74	-16.77	Pk
H	9920.00	42.77	30.55	5.77	24.66	42.65	54	-11.35	AV
H	12400.00	55.73	30.33	6.32	24.55	56.27	74	-17.73	Pk
H	12400.00	43.51	30.33	6.32	24.55	44.05	54	-9.95	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(Earphone Right)

GFSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	57.55	30.55	5.77	24.66	57.43	74	-16.57	Pk
V	4804.00	44.33	30.55	5.77	24.66	44.21	54	-9.79	AV
V	7206.00	57.42	30.33	6.32	24.55	57.96	74	-16.04	Pk
V	7206.00	41.86	30.33	6.32	24.55	42.4	54	-11.6	AV
V	9608.00	59.66	30.55	5.77	24.66	59.54	74	-14.46	Pk
V	9608.00	44.89	30.55	5.77	24.66	44.77	54	-9.23	AV
V	12010.00	59.32	30.33	6.32	24.55	59.86	74	-14.14	Pk
V	12010.00	43.56	30.33	6.32	24.55	44.1	54	-9.9	AV
H	4804.00	58.02	30.55	5.77	24.66	57.9	74	-16.1	Pk
H	4804.00	42.14	30.55	5.77	24.66	42.02	54	-11.98	AV
H	7206.00	59.24	30.33	6.32	24.55	59.78	74	-14.22	Pk
H	7206.00	44.45	30.33	6.32	24.55	44.99	54	-9.01	AV
H	9608.00	55.26	30.55	5.77	24.66	55.14	74	-18.86	Pk
H	9608.00	41.66	30.55	5.77	24.66	41.54	54	-12.46	AV
H	12010.00	59.51	30.33	6.32	24.55	60.05	74	-13.95	Pk
H	12010.00	41.98	30.33	6.32	24.55	42.52	54	-11.48	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	56.65	30.55	5.77	24.66	56.53	74	-17.47	Pk
V	4882.00	41.26	30.55	5.77	24.66	41.14	54	-12.86	AV
V	7323.00	57.39	30.33	6.32	24.55	57.93	74	-16.07	Pk
V	7323.00	43.99	30.33	6.32	24.55	44.53	54	-9.47	AV
V	9764.00	57.48	30.55	5.77	24.66	57.36	74	-16.64	Pk
V	9764.00	43.29	30.55	5.77	24.66	43.17	54	-10.83	AV
V	12205.00	59.37	30.33	6.32	24.55	59.91	74	-14.09	Pk
V	12205.00	41.89	30.33	6.32	24.55	42.43	54	-11.57	AV
H	4882.00	57.10	30.55	5.77	24.66	56.98	74	-17.02	Pk
H	4882.00	44.65	30.55	5.77	24.66	44.53	54	-9.47	AV
H	7323.00	56.91	30.33	6.32	24.55	57.45	74	-16.55	Pk
H	7323.00	44.27	30.33	6.32	24.55	44.81	54	-9.19	AV
H	9764.00	56.68	30.55	5.77	24.66	56.56	74	-17.44	Pk
H	9764.00	45.06	30.55	5.77	24.66	44.94	54	-9.06	AV
H	12205.00	59.06	30.33	6.32	24.55	59.6	74	-14.4	Pk
H	12205.00	41.60	30.33	6.32	24.55	42.14	54	-11.86	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	55.36	30.55	5.77	24.66	55.24	74	-18.76	Pk
V	4960.00	41.60	30.55	5.77	24.66	41.48	54	-12.52	AV
V	7440.00	58.31	30.33	6.32	24.55	58.85	74	-15.15	Pk
V	7440.00	44.85	30.33	6.32	24.55	45.39	54	-8.61	AV
V	9920.00	59.80	30.55	5.77	24.66	59.68	74	-14.32	Pk
V	9920.00	41.28	30.55	5.77	24.66	41.16	54	-12.84	AV
V	12400.00	59.01	30.33	6.32	24.55	59.55	74	-14.45	Pk
V	12400.00	41.38	30.33	6.32	24.55	41.92	54	-12.08	AV
H	4960.00	56.53	30.55	5.77	24.66	56.41	74	-17.59	Pk
H	4960.00	41.20	30.55	5.77	24.66	41.08	54	-12.92	AV
H	7440.00	55.74	30.33	6.32	24.55	56.28	74	-17.72	Pk
H	7440.00	44.31	30.33	6.32	24.55	44.85	54	-9.15	AV
H	9920.00	55.68	30.55	5.77	24.66	55.56	74	-18.44	Pk
H	9920.00	41.97	30.55	5.77	24.66	41.85	54	-12.15	AV
H	12400.00	57.09	30.33	6.32	24.55	57.63	74	-16.37	Pk
H	12400.00	44.54	30.33	6.32	24.55	45.08	54	-8.92	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/4DQPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	55.15	30.55	5.77	24.66	55.03	74	-18.97	Pk
V	4804.00	41.07	30.55	5.77	24.66	40.95	54	-13.05	AV
V	7206.00	59.36	30.33	6.32	24.55	59.9	74	-14.1	Pk
V	7206.00	44.83	30.33	6.32	24.55	45.37	54	-8.63	AV
V	9608.00	58.91	30.55	5.77	24.66	58.79	74	-15.21	Pk
V	9608.00	41.18	30.55	5.77	24.66	41.06	54	-12.94	AV
V	12010.00	57.15	30.33	6.32	24.55	57.69	74	-16.31	Pk
V	12010.00	41.70	30.33	6.32	24.55	42.24	54	-11.76	AV
H	4804.00	57.03	30.55	5.77	24.66	56.91	74	-17.09	Pk
H	4804.00	41.70	30.55	5.77	24.66	41.58	54	-12.42	AV
H	7206.00	58.91	30.33	6.32	24.55	59.45	74	-14.55	Pk
H	7206.00	41.97	30.33	6.32	24.55	42.51	54	-11.49	AV
H	9608.00	57.79	30.55	5.77	24.66	57.67	74	-16.33	Pk
H	9608.00	41.78	30.55	5.77	24.66	41.66	54	-12.34	AV
H	12010.00	57.49	30.33	6.32	24.55	58.03	74	-15.97	Pk
H	12010.00	41.92	30.33	6.32	24.55	42.46	54	-11.54	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	56.15	30.55	5.77	24.66	56.03	74	-17.97	Pk
V	4882.00	41.23	30.55	5.77	24.66	41.11	54	-12.89	AV
V	7323.00	58.34	30.33	6.32	24.55	58.88	74	-15.12	Pk
V	7323.00	43.34	30.33	6.32	24.55	43.88	54	-10.12	AV
V	9764.00	56.00	30.55	5.77	24.66	55.88	74	-18.12	Pk
V	9764.00	44.50	30.55	5.77	24.66	44.38	54	-9.62	AV
V	12205.00	58.06	30.33	6.32	24.55	58.6	74	-15.4	Pk
V	12205.00	44.53	30.33	6.32	24.55	45.07	54	-8.93	AV
H	4882.00	59.56	30.55	5.77	24.66	59.44	74	-14.56	Pk
H	4882.00	42.55	30.55	5.77	24.66	42.43	54	-11.57	AV
H	7323.00	56.44	30.33	6.32	24.55	56.98	74	-17.02	Pk
H	7323.00	41.66	30.33	6.32	24.55	42.2	54	-11.8	AV
H	9764.00	57.39	30.55	5.77	24.66	57.27	74	-16.73	Pk
H	9764.00	44.97	30.55	5.77	24.66	44.85	54	-9.15	AV
H	12205.00	57.87	30.33	6.32	24.55	58.41	74	-15.59	Pk
H	12205.00	43.21	30.33	6.32	24.55	43.75	54	-10.25	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	56.32	30.55	5.77	24.66	56.2	74	-17.8	Pk
V	4960.00	41.26	30.55	5.77	24.66	41.14	54	-12.86	AV
V	7440.00	56.74	30.33	6.32	24.55	57.28	74	-16.72	Pk
V	7440.00	42.09	30.33	6.32	24.55	42.63	54	-11.37	AV
V	9920.00	59.47	30.55	5.77	24.66	59.35	74	-14.65	Pk
V	9920.00	41.40	30.55	5.77	24.66	41.28	54	-12.72	AV
V	12400.00	56.06	30.33	6.32	24.55	56.6	74	-17.4	Pk
V	12400.00	41.41	30.33	6.32	24.55	41.95	54	-12.05	AV
H	4960.00	55.49	30.55	5.77	24.66	55.37	74	-18.63	Pk
H	4960.00	41.40	30.55	5.77	24.66	41.28	54	-12.72	AV
H	7440.00	57.72	30.33	6.32	24.55	58.26	74	-15.74	Pk
H	7440.00	44.52	30.33	6.32	24.55	45.06	54	-8.94	AV
H	9920.00	59.31	30.55	5.77	24.66	59.19	74	-14.81	Pk
H	9920.00	44.72	30.55	5.77	24.66	44.6	54	-9.4	AV
H	12400.00	58.64	30.33	6.32	24.55	59.18	74	-14.82	Pk
H	12400.00	41.23	30.33	6.32	24.55	41.77	54	-12.23	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.

8DPSK

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel:2402MHz									
V	4804.00	58.34	30.55	5.77	24.66	58.22	74	-15.78	Pk
V	4804.00	41.64	30.55	5.77	24.66	41.52	54	-12.48	AV
V	7206.00	58.36	30.33	6.32	24.55	58.9	74	-15.1	Pk
V	7206.00	42.19	30.33	6.32	24.55	42.73	54	-11.27	AV
V	9608.00	58.94	30.55	5.77	24.66	58.82	74	-15.18	Pk
V	9608.00	43.03	30.55	5.77	24.66	42.91	54	-11.09	AV
V	12010.00	56.32	30.33	6.32	24.55	56.86	74	-17.14	Pk
V	12010.00	45.05	30.55	5.77	24.66	44.93	54	-9.07	AV
H	4804.00	55.53	30.55	5.77	24.66	55.41	74	-18.59	Pk
H	4804.00	41.37	30.33	6.32	24.55	41.91	54	-12.09	AV
H	7206.00	58.82	30.33	6.32	24.55	59.36	74	-14.64	Pk
H	7206.00	41.21	30.55	5.77	24.66	41.09	54	-12.91	AV
H	9608.00	55.78	30.55	5.77	24.66	55.66	74	-18.34	Pk
H	9608.00	42.04	30.33	6.32	24.55	42.58	54	-11.42	AV
H	12010.00	57.20	30.33	6.32	24.55	57.74	74	-16.26	Pk
H	12010.00	41.58	30.55	5.77	24.66	41.46	54	-12.54	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Middle Channel:2441MHz									
V	4882.00	58.20	30.55	5.77	24.66	58.08	74	-15.92	Pk
V	4882.00	41.54	30.55	5.77	24.66	41.42	54	-12.58	AV
V	7323.00	58.25	30.33	6.32	24.55	58.79	74	-15.21	Pk
V	7323.00	42.09	30.33	6.32	24.55	42.63	54	-11.37	AV
V	9764.00	58.84	30.55	5.77	24.66	58.72	74	-15.28	Pk
V	9764.00	42.84	30.55	5.77	24.66	42.72	54	-11.28	AV
V	12205.00	56.15	30.33	6.32	24.55	56.69	74	-17.31	Pk
V	12205.00	44.98	30.33	6.32	24.55	45.52	54	-8.48	AV
H	4882.00	55.44	30.55	5.77	24.66	55.32	74	-18.68	Pk
H	4882.00	41.24	30.55	5.77	24.66	41.12	54	-12.88	AV
H	7323.00	58.66	30.33	6.32	24.55	59.2	74	-14.8	Pk
H	7323.00	41.20	30.33	6.32	24.55	41.74	54	-12.26	AV
H	9764.00	55.62	30.55	5.77	24.66	55.5	74	-18.5	Pk
H	9764.00	41.99	30.55	5.77	24.66	41.87	54	-12.13	AV
H	12205.00	57.06	30.33	6.32	24.55	57.6	74	-16.4	Pk
H	12205.00	41.46	30.33	6.32	24.55	42	54	-12	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
High Channel:2480MHz									
V	4960.00	58.05	30.55	5.77	24.66	57.93	74	-16.07	Pk
V	4960.00	42.05	30.55	5.77	24.66	41.93	54	-12.07	AV
V	7440.00	58.82	30.33	6.32	24.55	59.36	74	-14.64	Pk
V	7440.00	44.93	30.33	6.32	24.55	45.47	54	-8.53	AV
V	9920.00	57.79	30.55	5.77	24.66	57.67	74	-16.33	Pk
V	9920.00	44.57	30.55	5.77	24.66	44.45	54	-9.55	AV
V	12400.00	57.05	30.33	6.32	24.55	57.59	74	-16.41	Pk
V	12400.00	41.50	30.33	6.32	24.55	42.04	54	-11.96	AV
H	4960.00	58.96	30.55	5.77	24.66	58.84	74	-15.16	Pk
H	4960.00	41.13	30.55	5.77	24.66	41.01	54	-12.99	AV
H	7440.00	57.68	30.33	6.32	24.55	58.22	74	-15.78	Pk
H	7440.00	41.42	30.33	6.32	24.55	41.96	54	-12.04	AV
H	9920.00	57.44	30.55	5.77	24.66	57.32	74	-16.68	Pk
H	9920.00	42.94	30.55	5.77	24.66	42.82	54	-11.18	AV
H	12400.00	55.84	30.33	6.32	24.55	56.38	74	-17.62	Pk
H	12400.00	43.61	30.33	6.32	24.55	44.15	54	-9.85	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
	Average	1MHz	3MHz	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

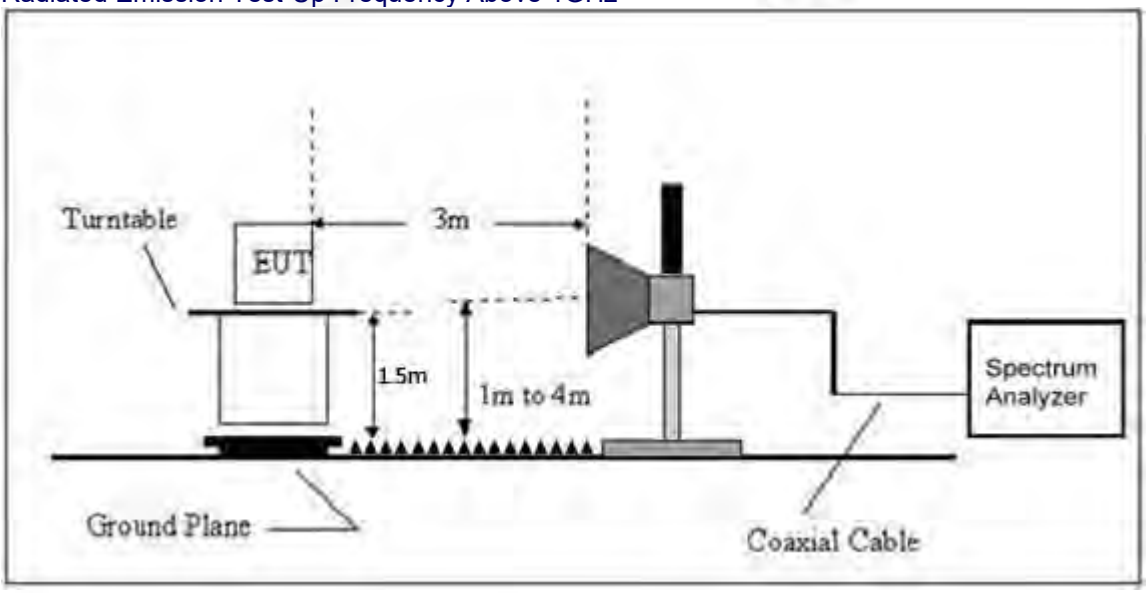
Note:
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

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

Earphone Left											
	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
GFSK	Low Channel: 2402MHz										
	H	2390.00	61.39	30.22	4.85	23.98	60.00	74.00	-14.00	PK	PASS
	H	2390.00	47.29	30.22	4.85	23.98	45.90	54.00	-8.10	AV	PASS
	H	2400.00	61.69	30.22	4.85	23.98	60.30	74.00	-13.70	PK	PASS
	H	2400.00	47.56	30.22	4.85	23.98	46.17	54.00	-7.83	AV	PASS
	V	2390.00	62.02	30.22	4.85	23.98	60.63	74.00	-13.37	PK	PASS
	V	2390.00	48.08	30.22	4.85	23.98	46.69	54.00	-7.31	AV	PASS
	V	2400.00	62.25	30.22	4.85	23.98	60.86	74.00	-13.14	PK	PASS
	V	2400.00	48.58	30.22	4.85	23.98	47.19	54.00	-6.81	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	61.12	30.22	4.85	23.98	59.73	74.00	-14.27	PK	PASS
	H	2483.50	46.50	30.22	4.85	23.98	45.11	54.00	-8.89	AV	PASS
	H	2500.00	63.00	30.22	4.85	23.98	61.61	74.00	-12.39	PK	PASS
	H	2500.00	48.15	30.22	4.85	23.98	46.76	54.00	-7.24	AV	PASS
	V	2483.50	62.88	30.22	4.85	23.98	61.49	74.00	-12.51	PK	PASS
	V	2483.50	47.72	30.22	4.85	23.98	46.33	54.00	-7.67	AV	PASS
	V	2500.00	61.75	30.22	4.85	23.98	60.36	74.00	-13.64	PK	PASS
	V	2500.00	47.07	30.22	4.85	23.98	45.68	54.00	-8.32	AV	PASS
π/4DQPSK	Low Channel: 2402MHz										
	H	2390.00	59.77	30.22	4.85	23.98	58.38	74.00	-15.62	PK	PASS
	H	2390.00	47.62	30.22	4.85	23.98	46.23	54.00	-7.77	AV	PASS
	H	2400.00	62.56	30.22	4.85	23.98	61.17	74.00	-12.83	PK	PASS
	H	2400.00	46.15	30.22	4.85	23.98	44.76	54.00	-9.24	AV	PASS
	V	2390.00	59.00	30.22	4.85	23.98	57.61	74.00	-16.39	PK	PASS
	V	2390.00	47.43	30.22	4.85	23.98	46.04	54.00	-7.96	AV	PASS
	V	2400.00	59.70	30.22	4.85	23.98	58.31	74.00	-15.69	PK	PASS
	V	2400.00	47.49	30.22	4.85	23.98	46.10	54.00	-7.90	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	59.04	30.22	4.85	23.98	57.65	74.00	-16.35	PK	PASS
	H	2483.50	48.78	30.22	4.85	23.98	47.39	54.00	-6.61	AV	PASS
	H	2500.00	62.55	30.22	4.85	23.98	61.16	74.00	-12.84	PK	PASS
	H	2500.00	47.59	30.22	4.85	23.98	46.20	54.00	-7.80	AV	PASS
	V	2483.50	60.87	30.22	4.85	23.98	59.48	74.00	-14.52	PK	PASS
	V	2483.50	46.02	30.22	4.85	23.98	44.63	54.00	-9.37	AV	PASS
	V	2500.00	61.30	30.22	4.85	23.98	59.91	74.00	-14.09	PK	PASS
	V	2500.00	48.09	30.22	4.85	23.98	46.70	54.00	-7.30	AV	PASS
8DPSK	Low Channel: 2402MHz										
	H	2390.00	61.81	30.22	4.85	23.98	60.42	74.00	-13.58	PK	PASS
	H	2390.00	46.33	30.22	4.85	23.98	44.94	54.00	-9.06	AV	PASS
	H	2400.00	59.27	30.22	4.85	23.98	57.88	74.00	-16.12	PK	PASS
	H	2400.00	48.88	30.22	4.85	23.98	47.49	54.00	-6.51	AV	PASS
	V	2390.00	61.81	30.22	4.85	23.98	60.42	74.00	-13.58	PK	PASS
	V	2390.00	47.60	30.22	4.85	23.98	46.21	54.00	-7.79	AV	PASS
	V	2400.00	60.04	30.22	4.85	23.98	58.65	74.00	-15.35	PK	PASS
	V	2400.00	47.27	30.22	4.85	23.98	45.88	54.00	-8.12	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	62.37	30.22	4.85	23.98	60.98	74.00	-13.02	PK	PASS
	H	2483.50	47.47	30.22	4.85	23.98	46.08	54.00	-7.92	AV	PASS

	H	2500.00	60.65	30.22	4.85	23.98	59.26	74.00	-14.74	PK	PASS
	H	2500.00	47.67	30.22	4.85	23.98	46.28	54.00	-7.72	AV	PASS
	V	2483.50	62.10	30.22	4.85	23.98	60.71	74.00	-13.29	PK	PASS
	V	2483.50	46.84	30.22	4.85	23.98	45.45	54.00	-8.55	AV	PASS
	V	2500.00	61.70	30.22	4.85	23.98	60.31	74.00	-13.69	PK	PASS
	V	2500.00	46.13	30.22	4.85	23.98	44.74	54.00	-9.26	AV	PASS

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

Earphone Right											
	Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
GFSK	Low Channel: 2402MHz										
	H	2390.00	61.45	30.22	4.85	23.98	60.06	74	-13.94	PK	PASS
	H	2390.00	47.47	30.22	4.85	23.98	46.08	54	-7.92	AV	PASS
	H	2400.00	61.83	30.22	4.85	23.98	60.44	74	-13.56	PK	PASS
	H	2400.00	47.69	30.22	4.85	23.98	46.3	54	-7.7	AV	PASS
	V	2390.00	62.03	30.22	4.85	23.98	60.64	74	-13.36	PK	PASS
	V	2390.00	48.12	30.22	4.85	23.98	46.73	54	-7.27	AV	PASS
	V	2400.00	62.31	30.22	4.85	23.98	60.92	74	-13.08	PK	PASS
	V	2400.00	48.75	30.22	4.85	23.98	47.36	54	-6.64	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	61.16	30.22	4.85	23.98	59.77	74	-14.23	PK	PASS
	H	2483.50	46.54	30.22	4.85	23.98	45.15	54	-8.85	AV	PASS
	H	2500.00	63.19	30.22	4.85	23.98	61.8	74	-12.2	PK	PASS
	H	2500.00	48.16	30.22	4.85	23.98	46.77	54	-7.23	AV	PASS
	V	2483.50	63.03	30.22	4.85	23.98	61.64	74	-12.36	PK	PASS
	V	2483.50	47.82	30.22	4.85	23.98	46.43	54	-7.57	AV	PASS
	V	2500.00	61.85	30.22	4.85	23.98	60.46	74	-13.54	PK	PASS
	V	2500.00	47.24	30.22	4.85	23.98	45.85	54	-8.15	AV	PASS
π/4DQPSK	Low Channel: 2402MHz										
	H	2390.00	59.85	30.22	4.85	23.98	58.46	74	-15.54	PK	PASS
	H	2390.00	47.73	30.22	4.85	23.98	46.34	54	-7.66	AV	PASS
	H	2400.00	62.71	30.22	4.85	23.98	61.32	74	-12.68	PK	PASS
	H	2400.00	46.29	30.22	4.85	23.98	44.9	54	-9.1	AV	PASS
	V	2390.00	59.13	30.22	4.85	23.98	57.74	74	-16.26	PK	PASS
	V	2390.00	47.54	30.22	4.85	23.98	46.15	54	-7.85	AV	PASS
	V	2400.00	59.80	30.22	4.85	23.98	58.41	74	-15.59	PK	PASS
	V	2400.00	47.51	30.22	4.85	23.98	46.12	54	-7.88	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	59.07	30.22	4.85	23.98	57.68	74	-16.32	PK	PASS
	H	2483.50	48.92	30.22	4.85	23.98	47.53	54	-6.47	AV	PASS
	H	2500.00	62.55	30.22	4.85	23.98	61.16	74	-12.84	PK	PASS
	H	2500.00	47.63	30.22	4.85	23.98	46.24	54	-7.76	AV	PASS
	V	2483.50	60.92	30.22	4.85	23.98	59.53	74	-14.47	PK	PASS
	V	2483.50	46.16	30.22	4.85	23.98	44.77	54	-9.23	AV	PASS
	V	2500.00	61.35	30.22	4.85	23.98	59.96	74	-14.04	PK	PASS
	V	2500.00	48.27	30.22	4.85	23.98	46.88	54	-7.12	AV	PASS
8DPSK	Low Channel: 2402MHz										
	H	2390.00	62.00	30.22	4.85	23.98	60.61	74	-13.39	PK	PASS
	H	2390.00	46.43	30.22	4.85	23.98	45.04	54	-8.96	AV	PASS
	H	2400.00	59.44	30.22	4.85	23.98	58.05	74	-15.95	PK	PASS
	H	2400.00	48.96	30.22	4.85	23.98	47.57	54	-6.43	AV	PASS
	V	2390.00	61.92	30.22	4.85	23.98	60.53	74	-13.47	PK	PASS
	V	2390.00	47.79	30.22	4.85	23.98	46.4	54	-7.6	AV	PASS
	V	2400.00	60.14	30.22	4.85	23.98	58.75	74	-15.25	PK	PASS
	V	2400.00	47.32	30.22	4.85	23.98	45.93	54	-8.07	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	62.54	30.22	4.85	23.98	61.15	74	-12.85	PK	PASS
	H	2483.50	47.59	30.22	4.85	23.98	46.2	54	-7.8	AV	PASS
	H	2500.00	60.78	30.22	4.85	23.98	59.39	74	-14.61	PK	PASS
	H	2500.00	47.83	30.22	4.85	23.98	46.44	54	-7.56	AV	PASS

	V	2483.50	62.18	30.22	4.85	23.98	60.79	74	-13.21	PK	PASS
	V	2483.50	47.02	30.22	4.85	23.98	45.63	54	-8.37	AV	PASS
	V	2500.00	61.72	30.22	4.85	23.98	60.33	74	-13.67	PK	PASS
	V	2500.00	46.17	30.22	4.85	23.98	44.78	54	-9.22	AV	PASS

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

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

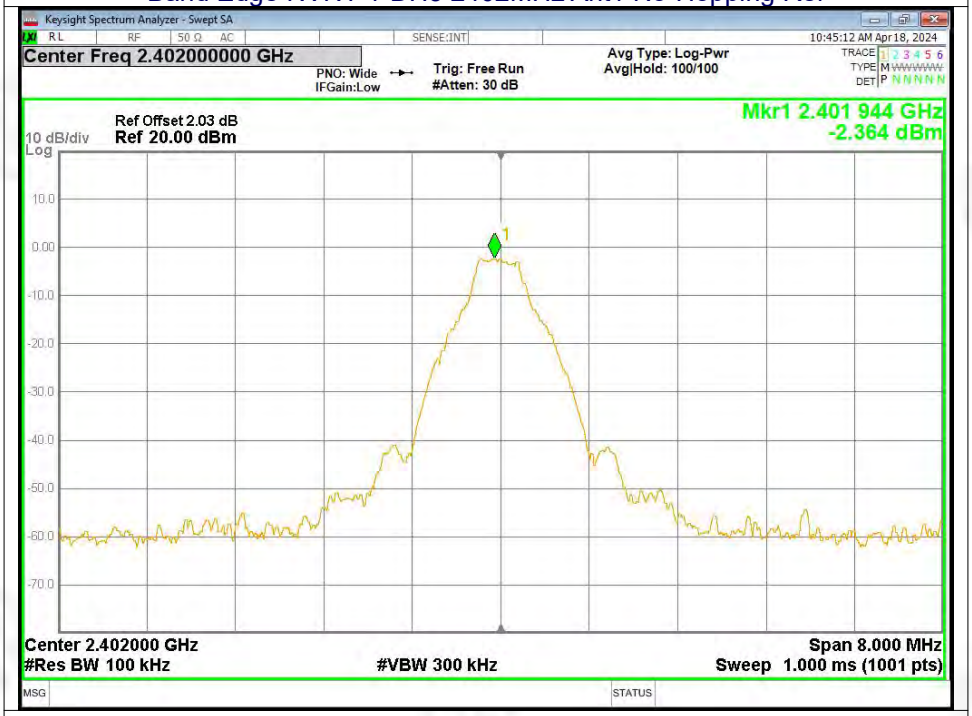
No deviation.

6.5 Test Result

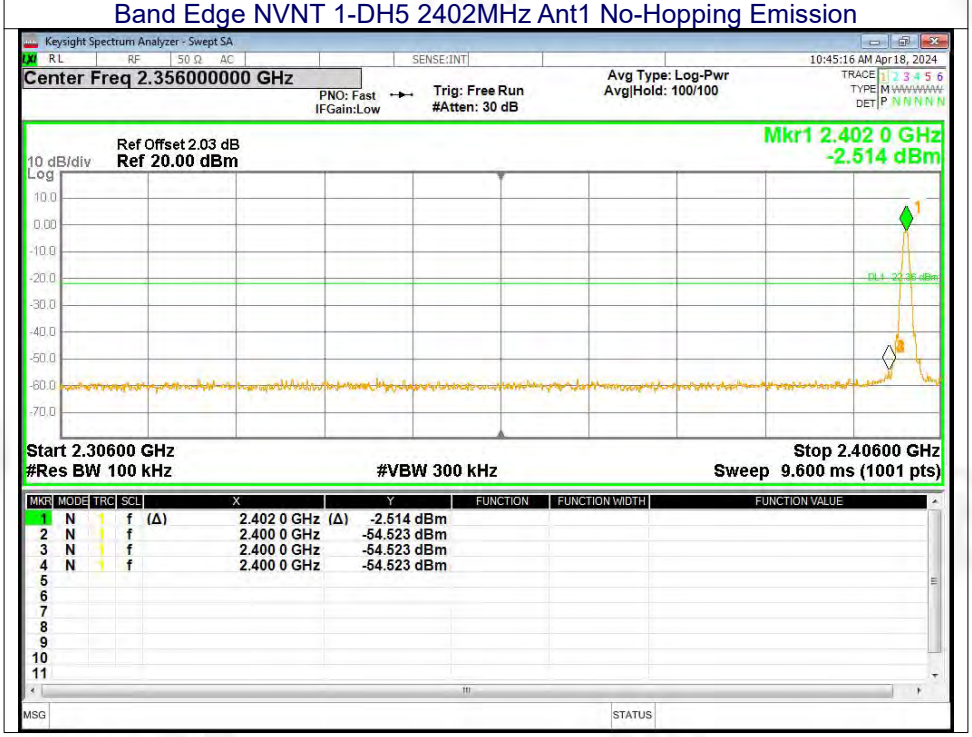
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	-52.16	-20	Pass
1-DH5	2480	-52.47	-20	Pass
2-DH5	2402	-46.55	-20	Pass
2-DH5	2480	-53.25	-20	Pass
3-DH5	2402	-51.9	-20	Pass
3-DH5	2480	-53.48	-20	Pass

Test Graphs

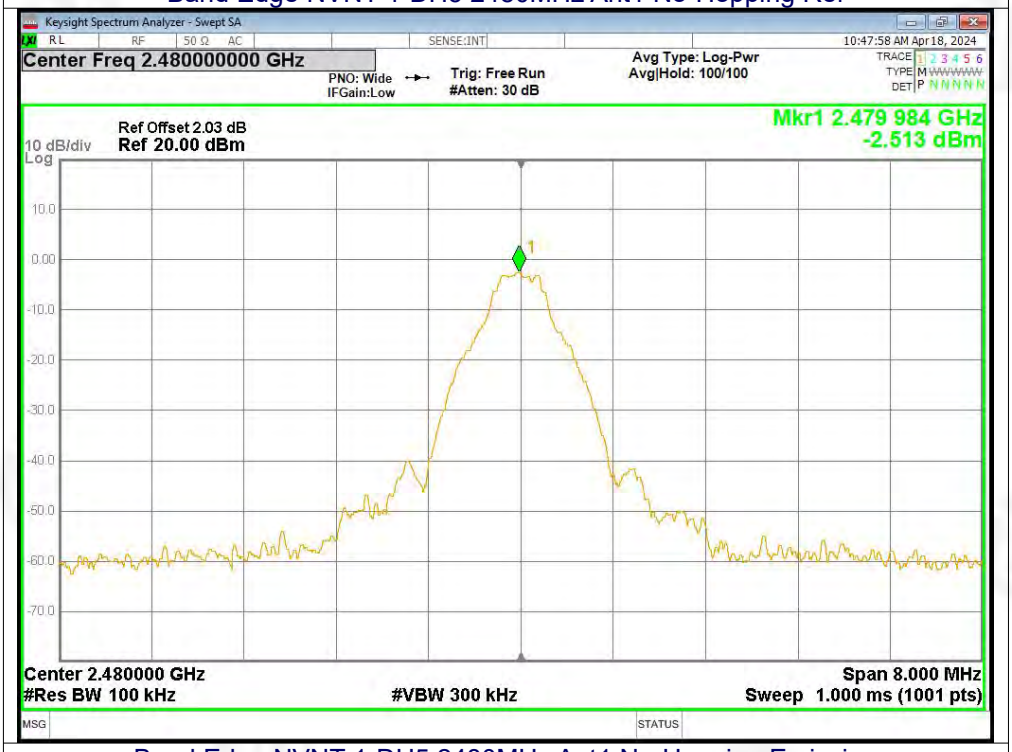
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



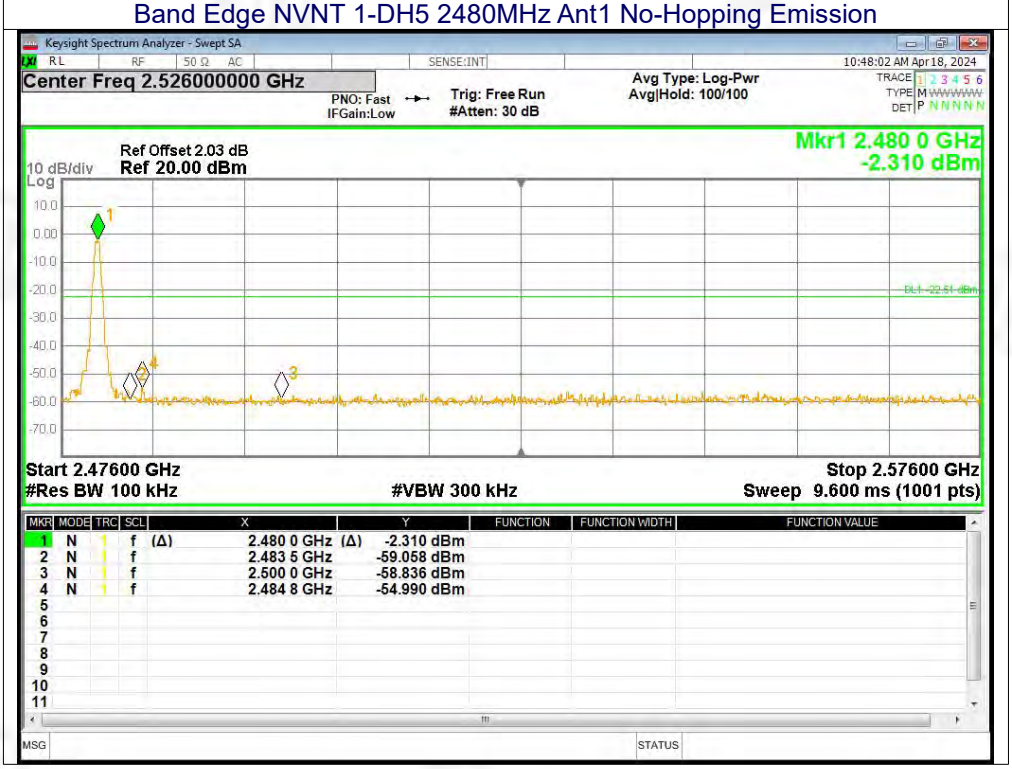
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



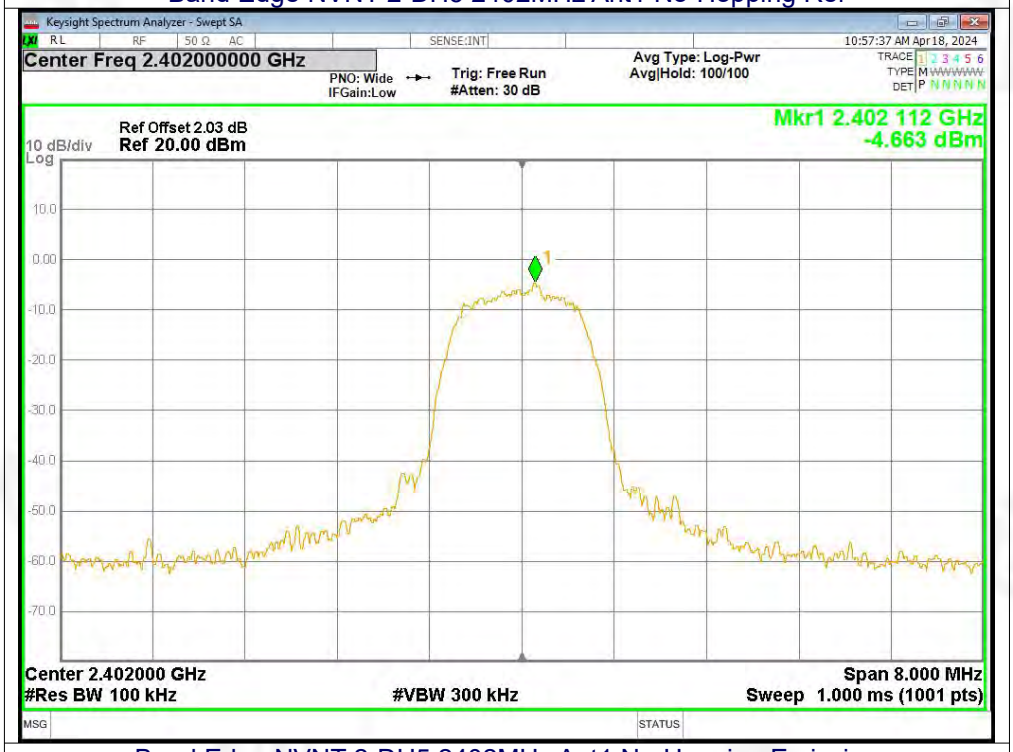
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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

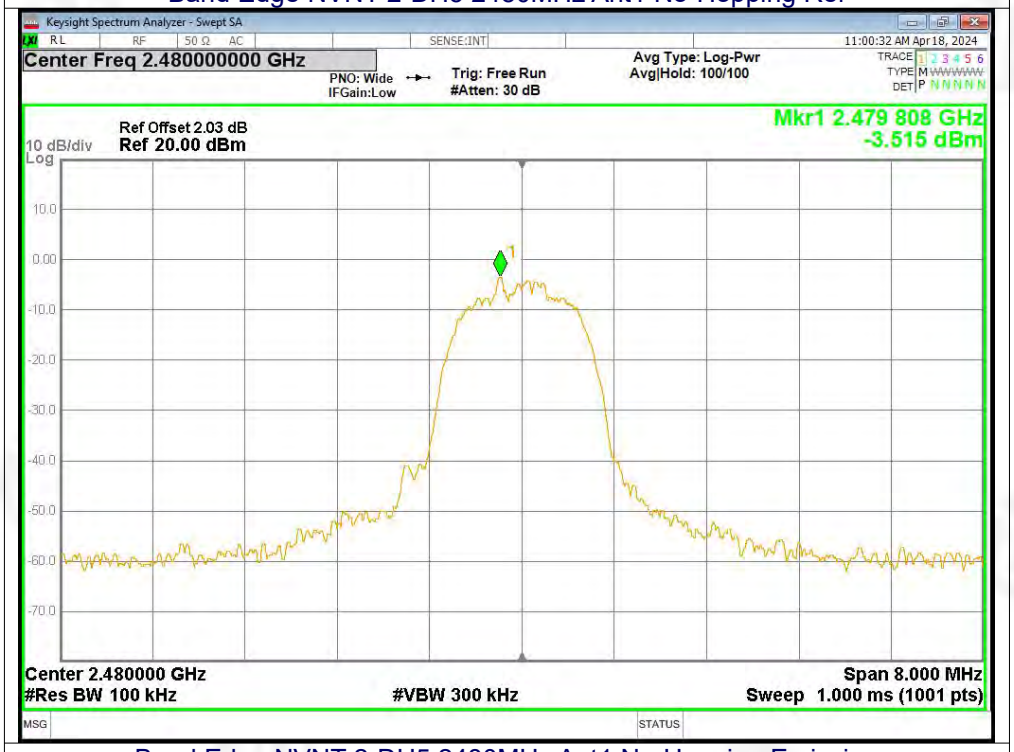


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



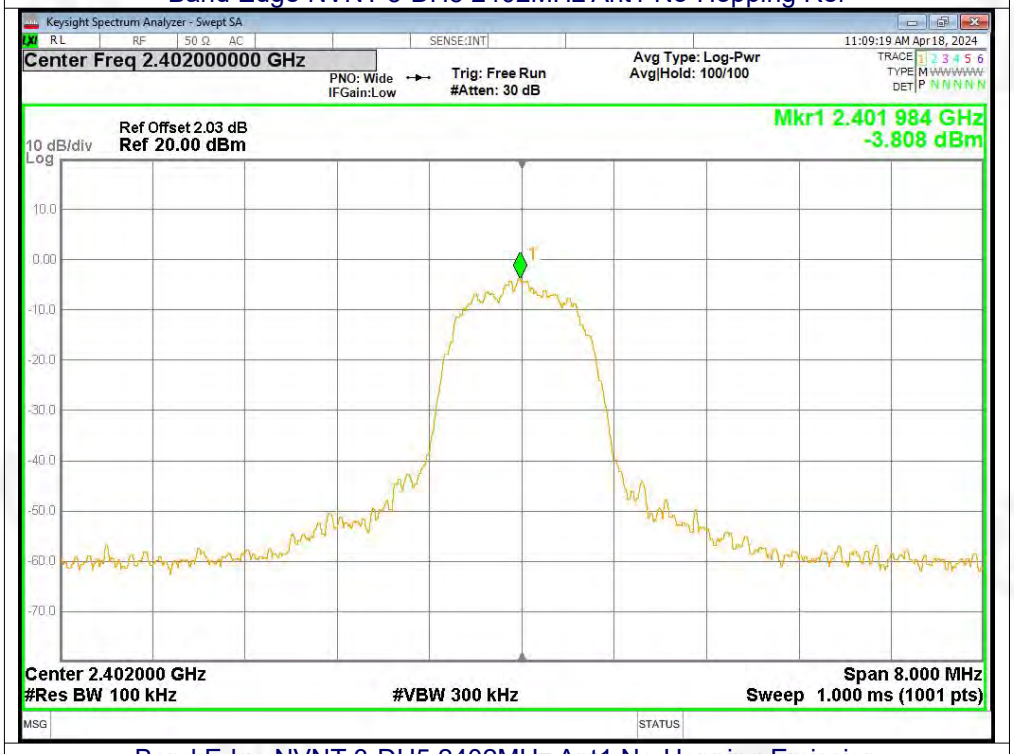
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

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



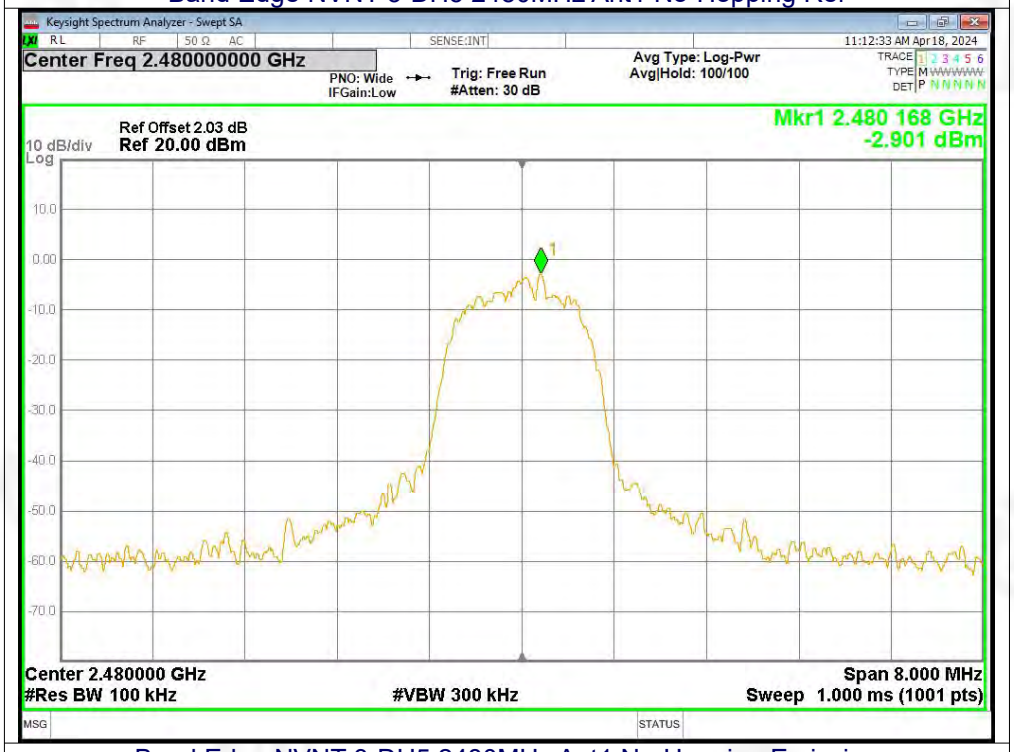
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

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

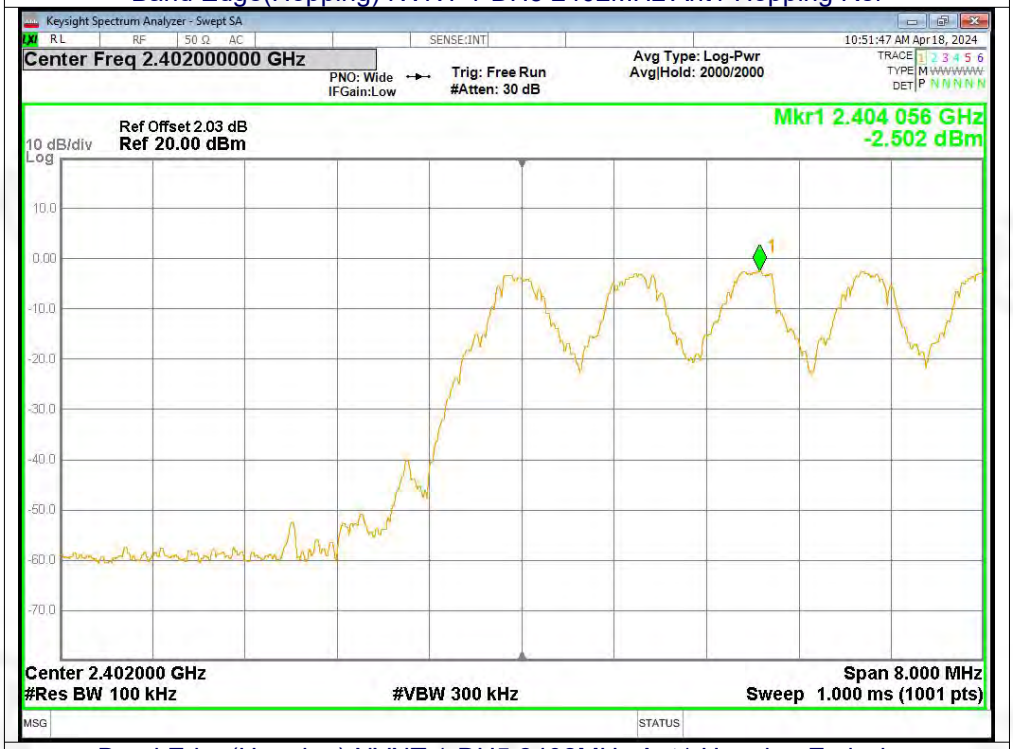


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	Ant1	Hopping	-54.07	-20	Pass
1-DH5	2480	Ant1	Hopping	-53.4	-20	Pass
2-DH5	2402	Ant1	Hopping	-54.49	-20	Pass
2-DH5	2480	Ant1	Hopping	-53.67	-20	Pass
3-DH5	2402	Ant1	Hopping	-54.09	-20	Pass
3-DH5	2480	Ant1	Hopping	-54.24	-20	Pass

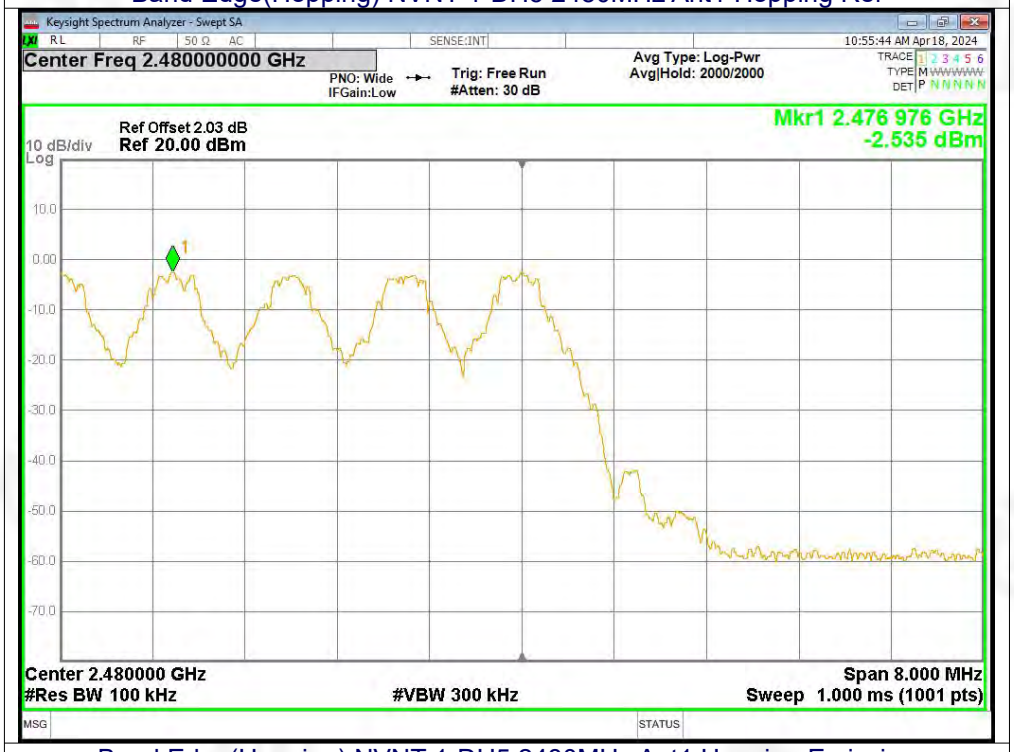
Test Graphs

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

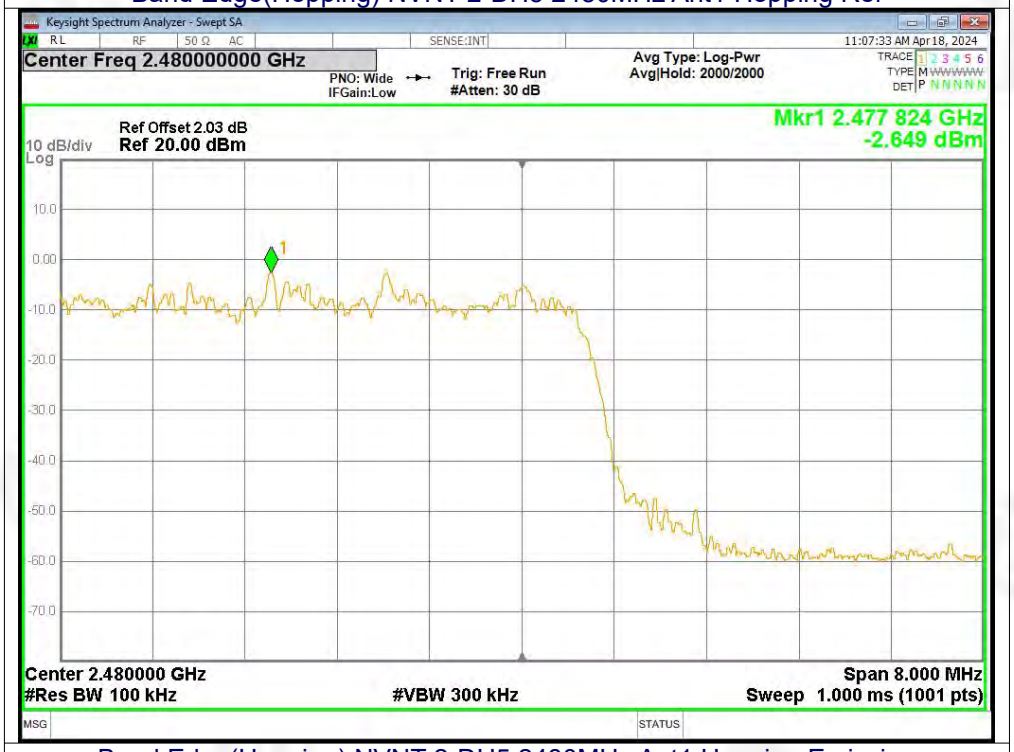


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

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

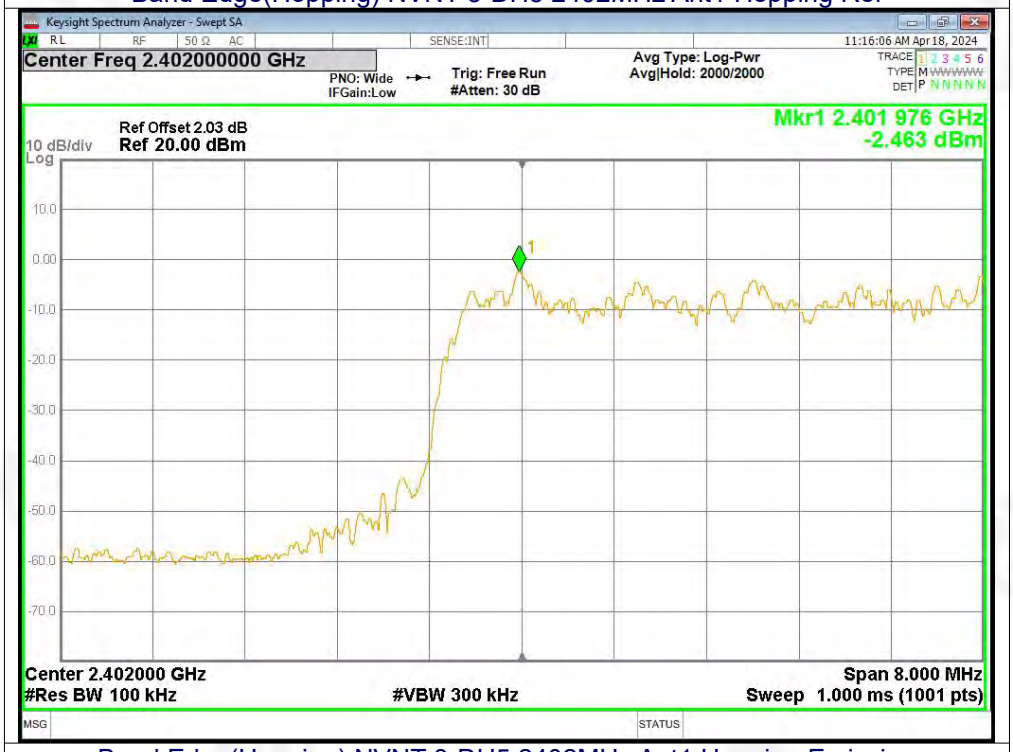
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

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



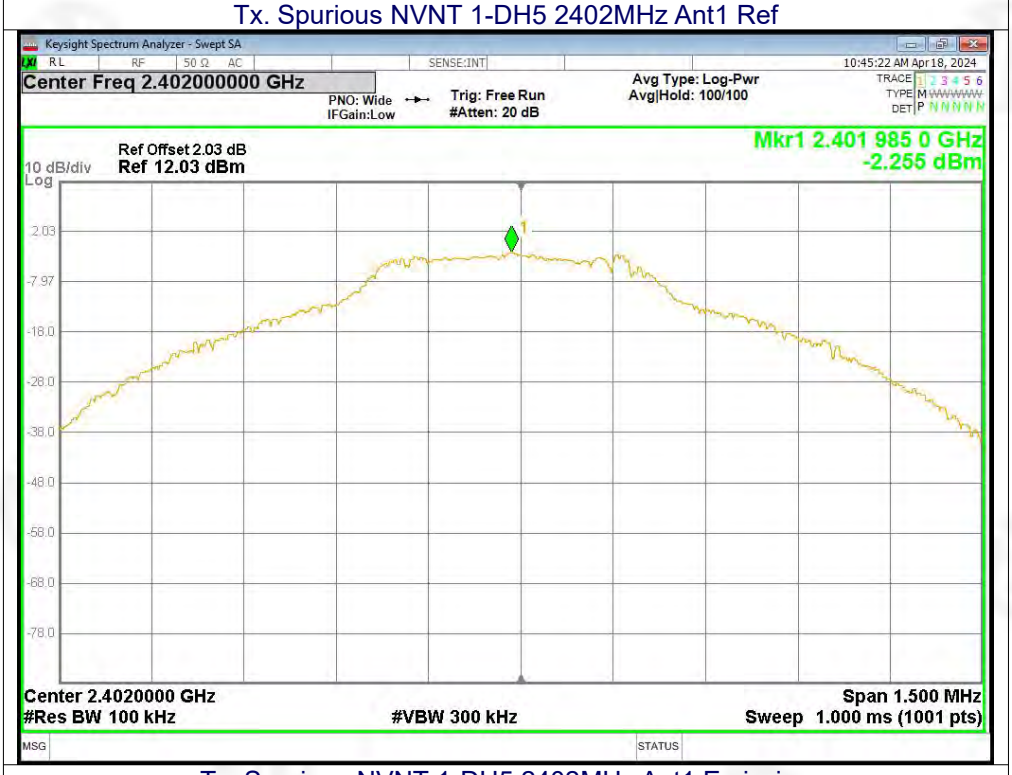
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

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

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

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



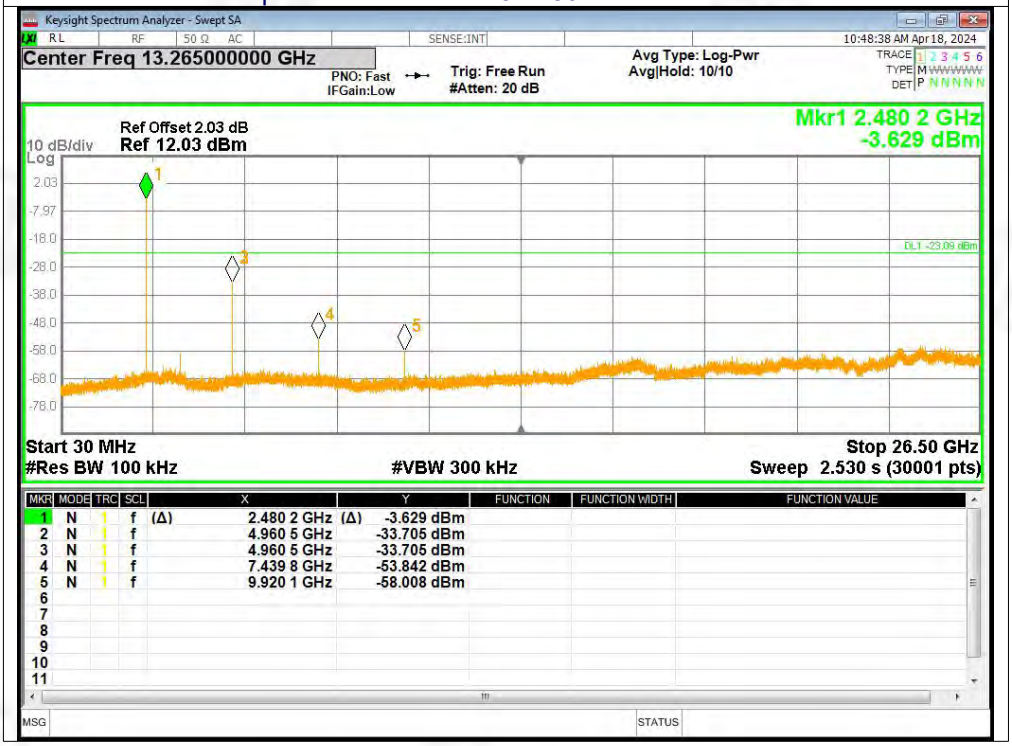
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

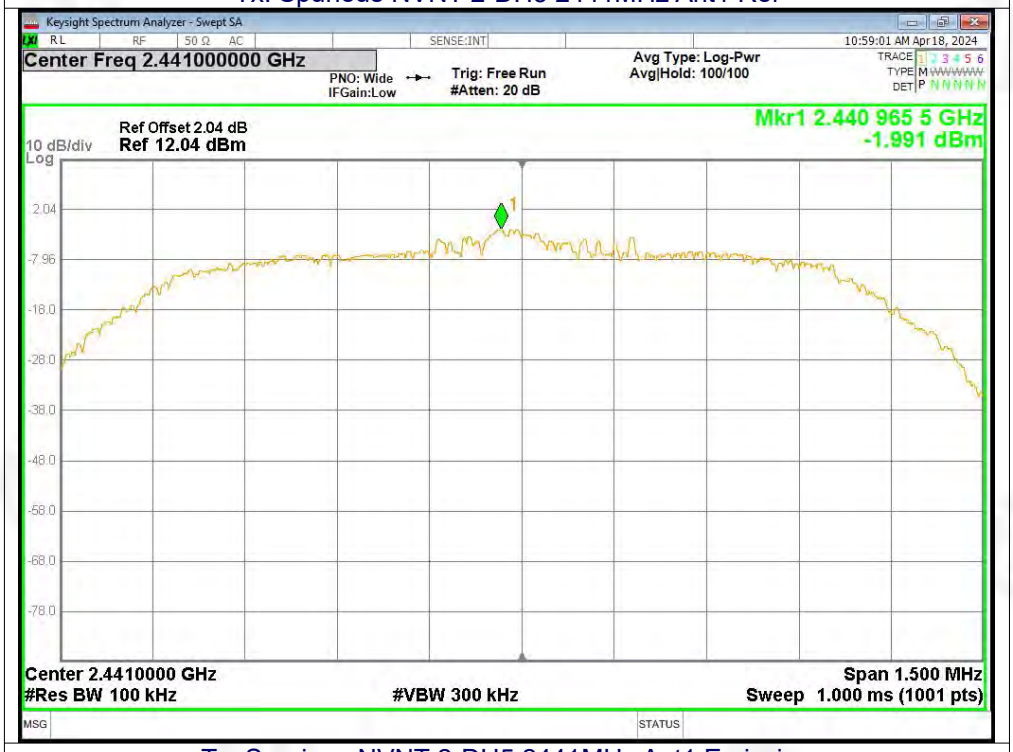
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

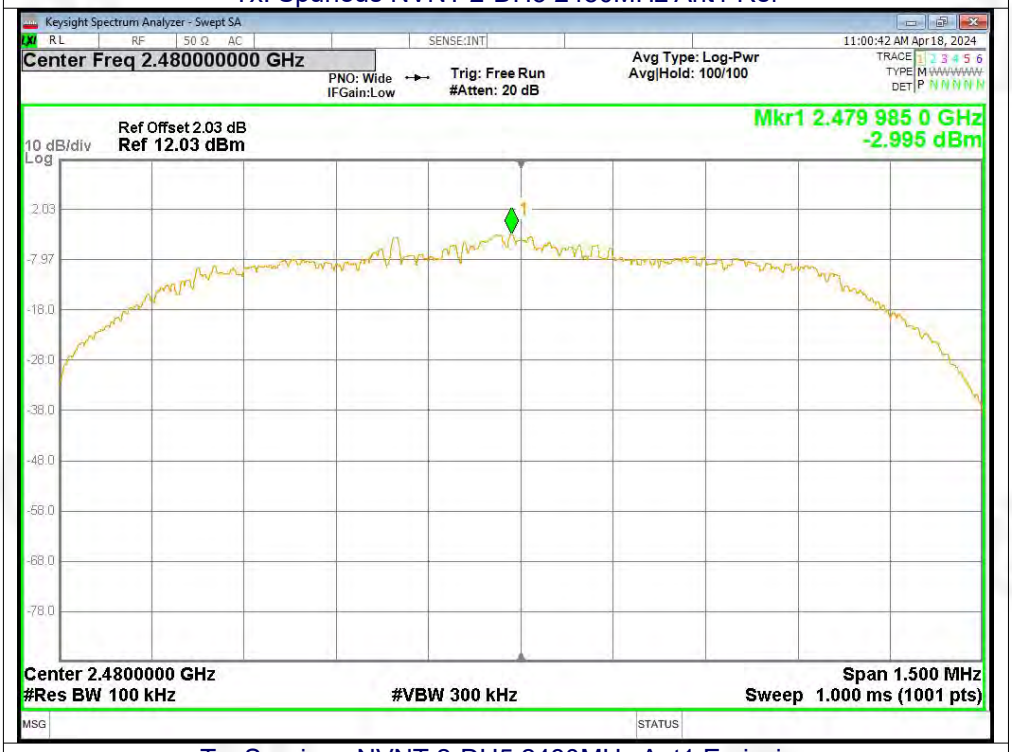
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

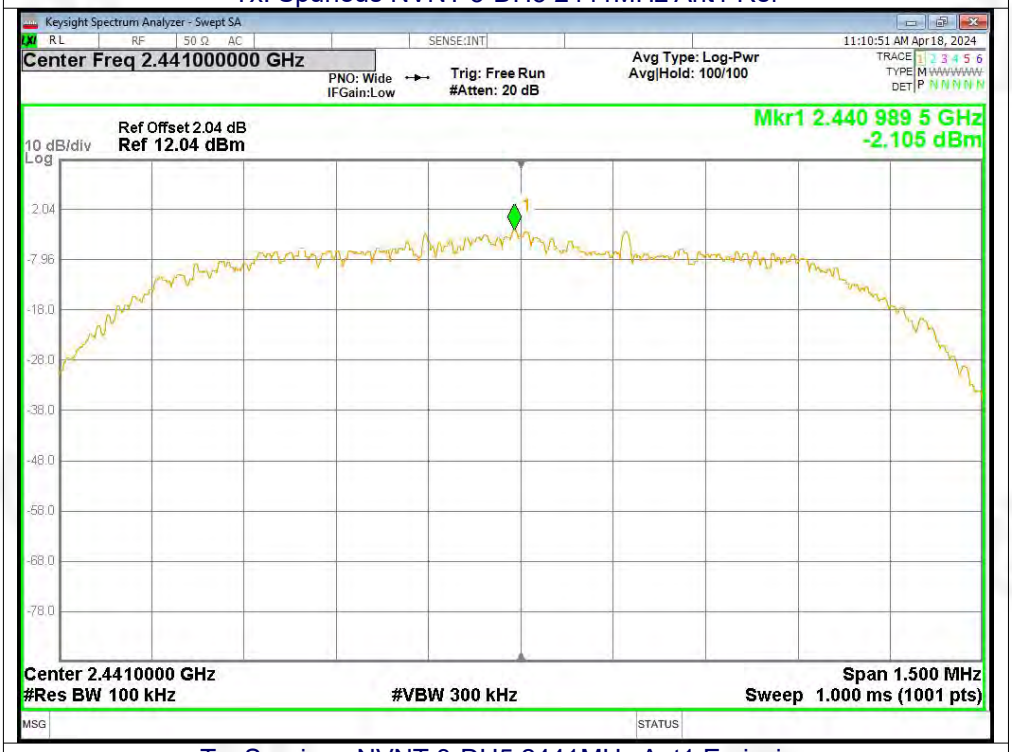


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

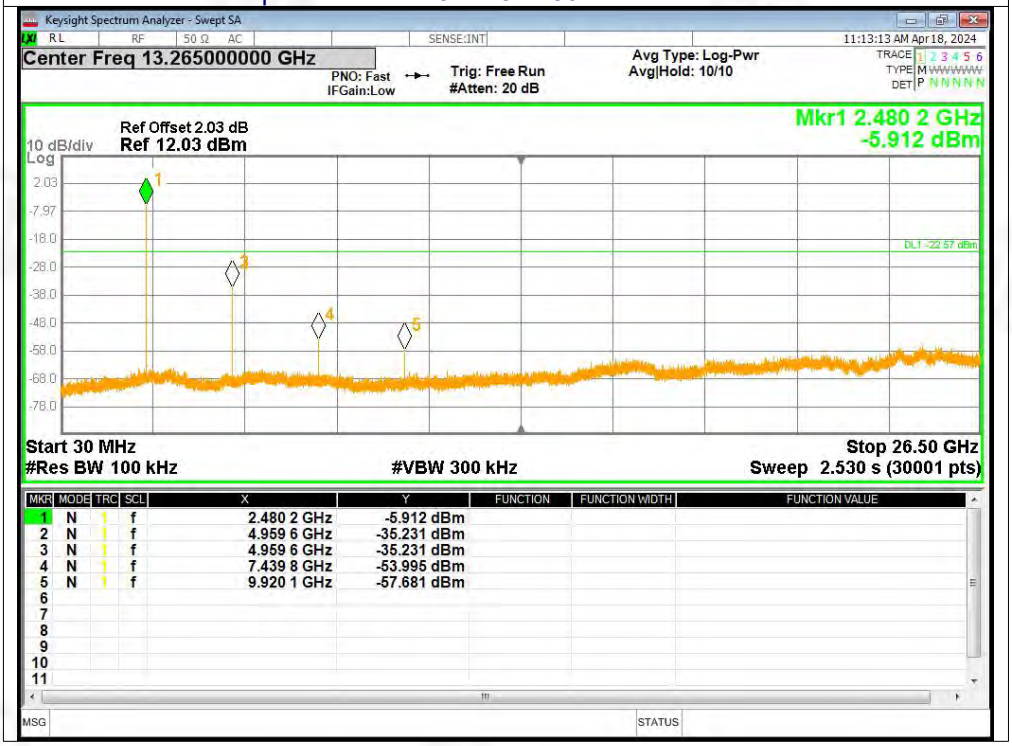
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



7. 20DB&99% BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013

7.1 Test Setup

7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.

2. Set the video bandwidth (VBW) ≥ 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.

7.4 DEVIATION FROM STANDARD

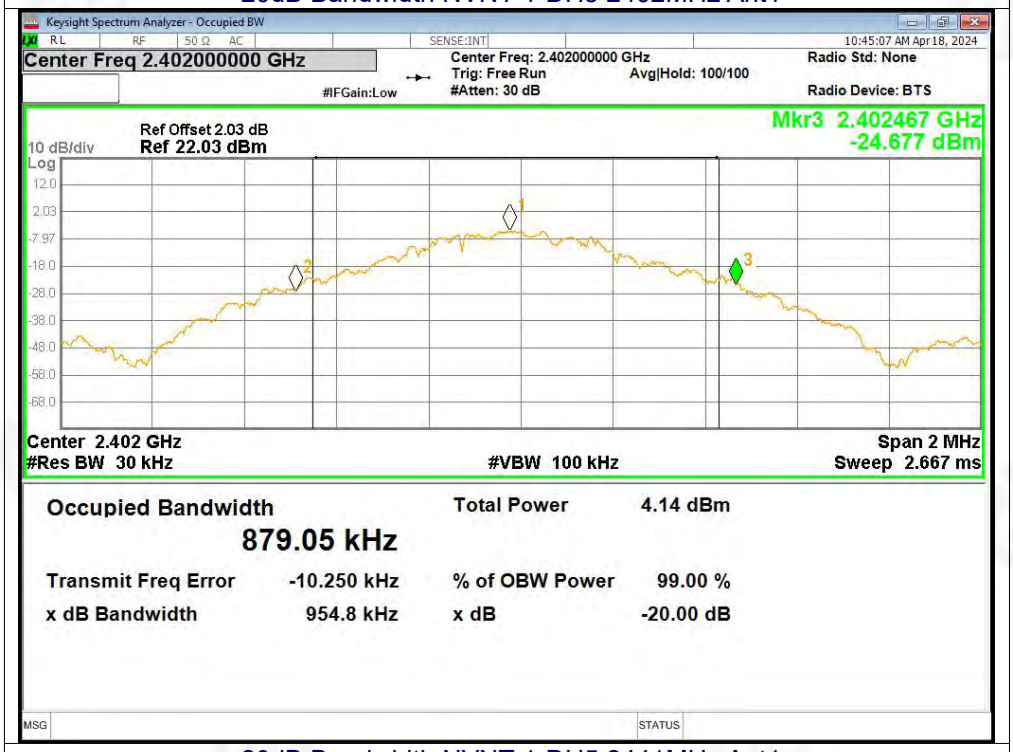
No deviation.

7.5 Test Result

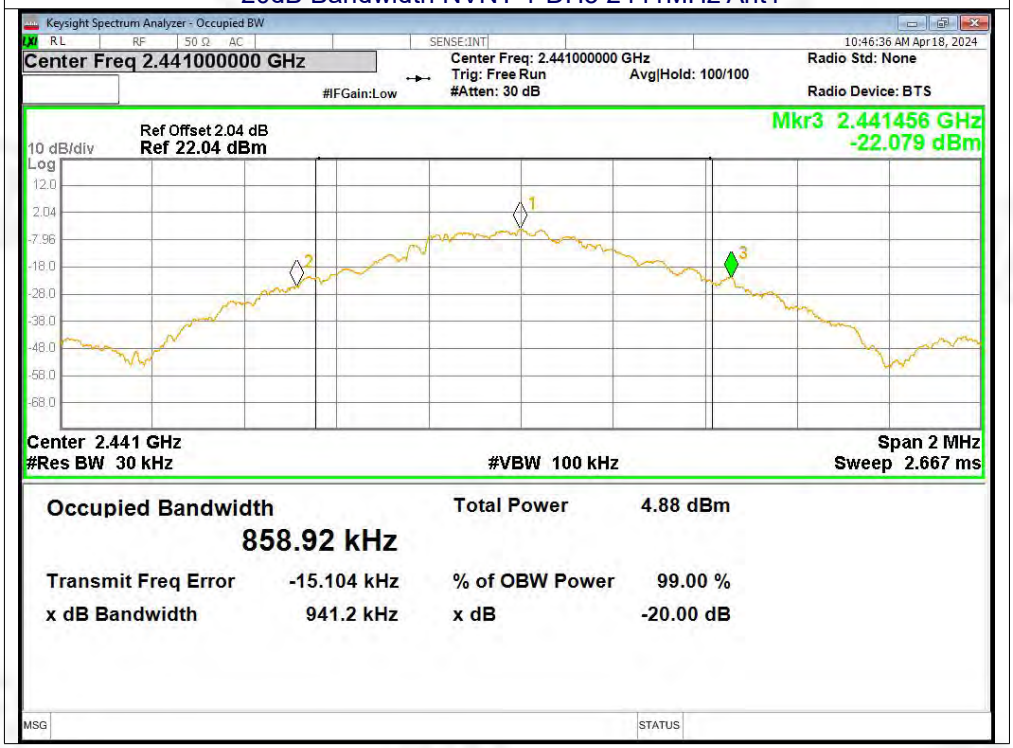
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	0.955	Pass
	Middle	0.941	
	Highest	0.954	
π/4DQPSK	Lowest	1.308	Pass
	Middle	1.268	
	Highest	1.218	
8DPSK	Lowest	1.261	Pass
	Middle	1.293	
	Highest	1.275	

Test Graphs

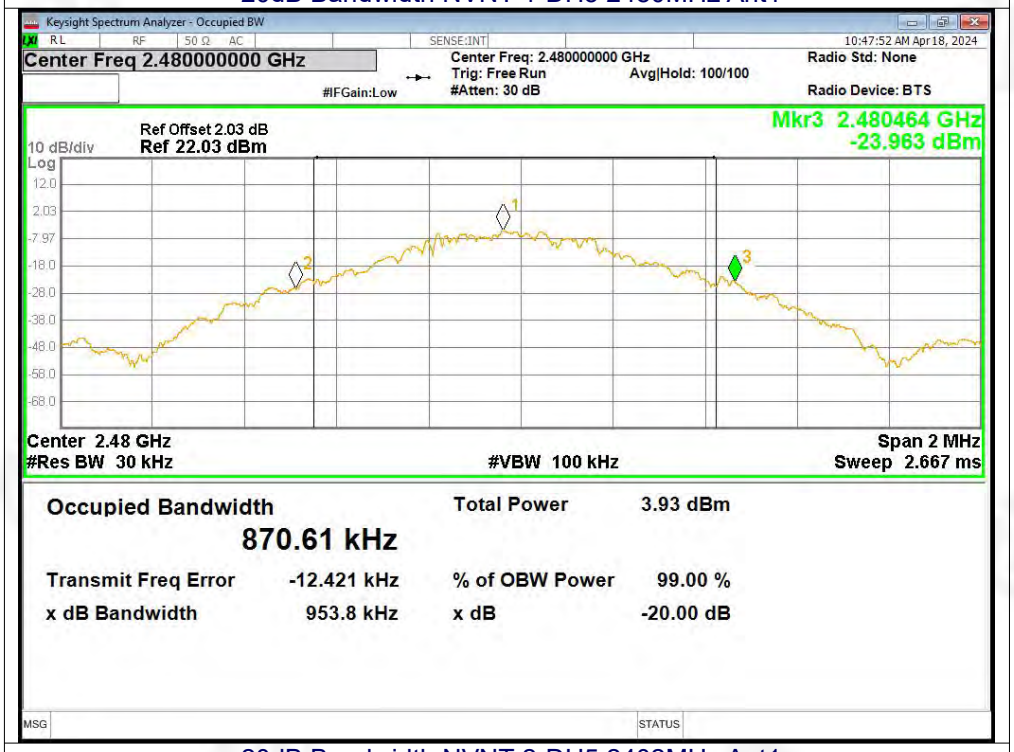
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



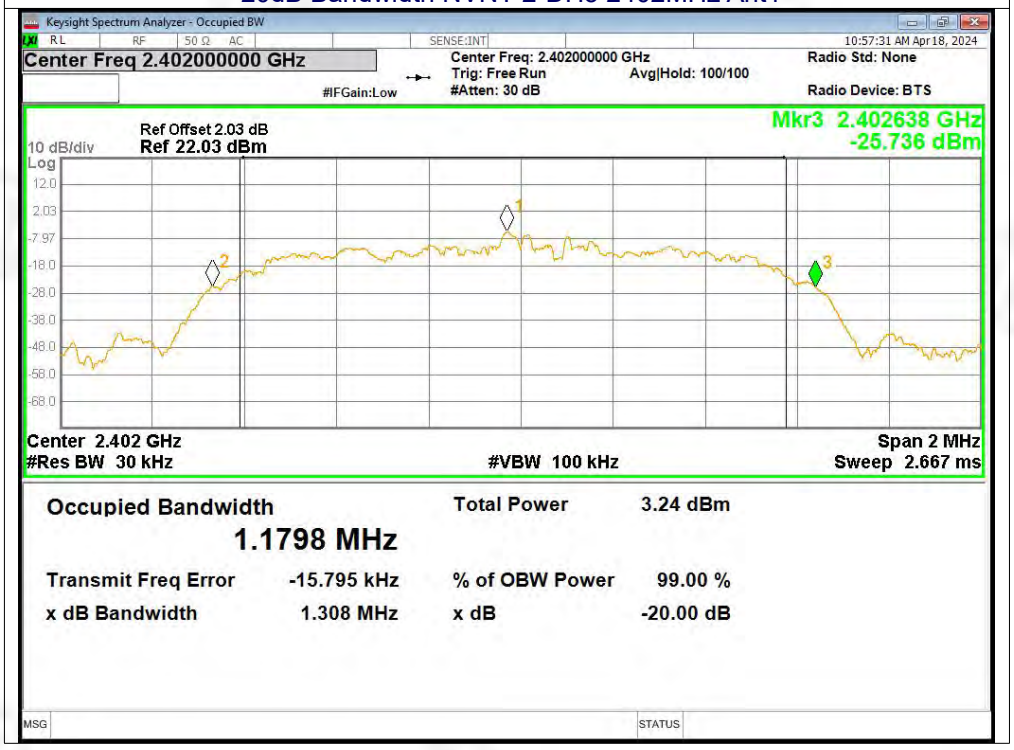
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



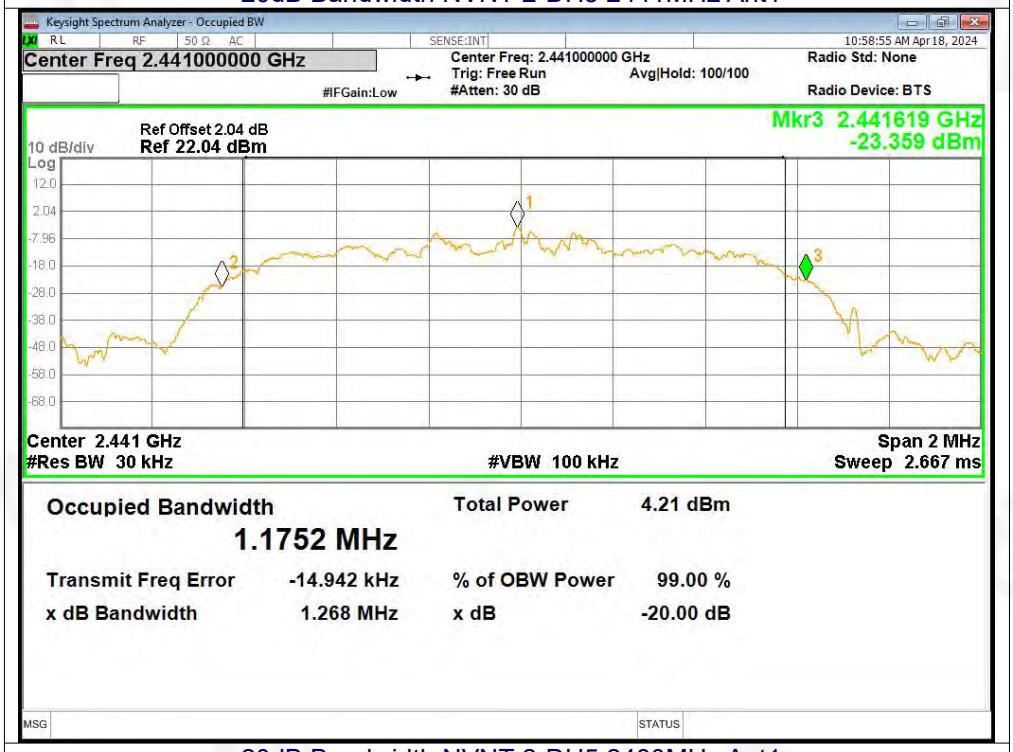
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



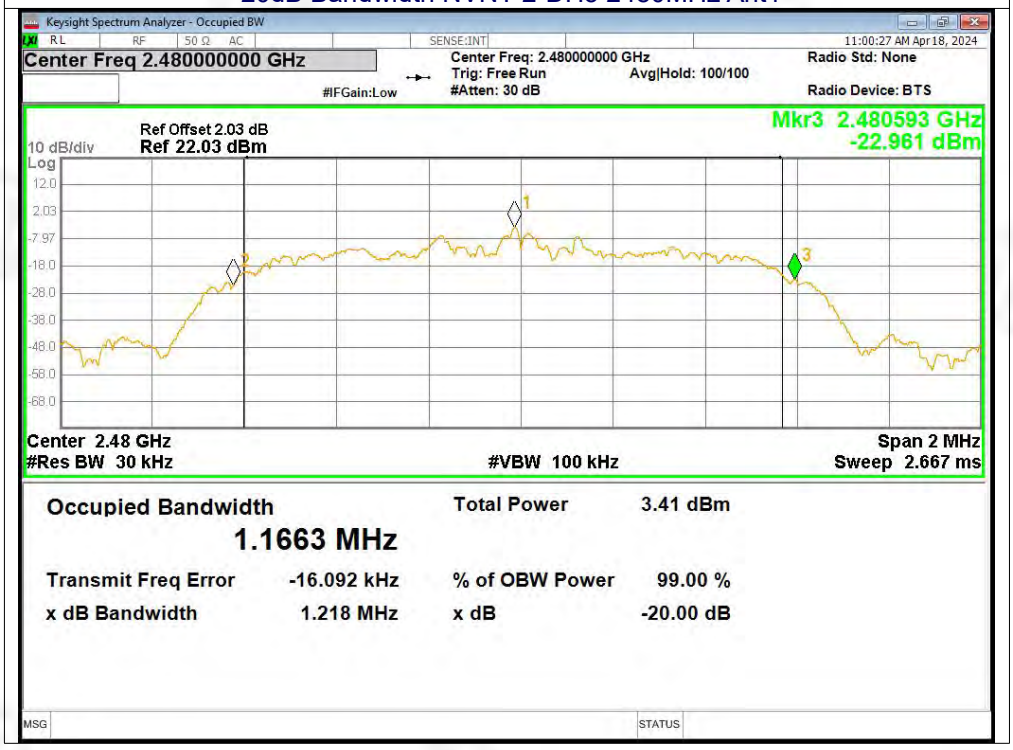
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



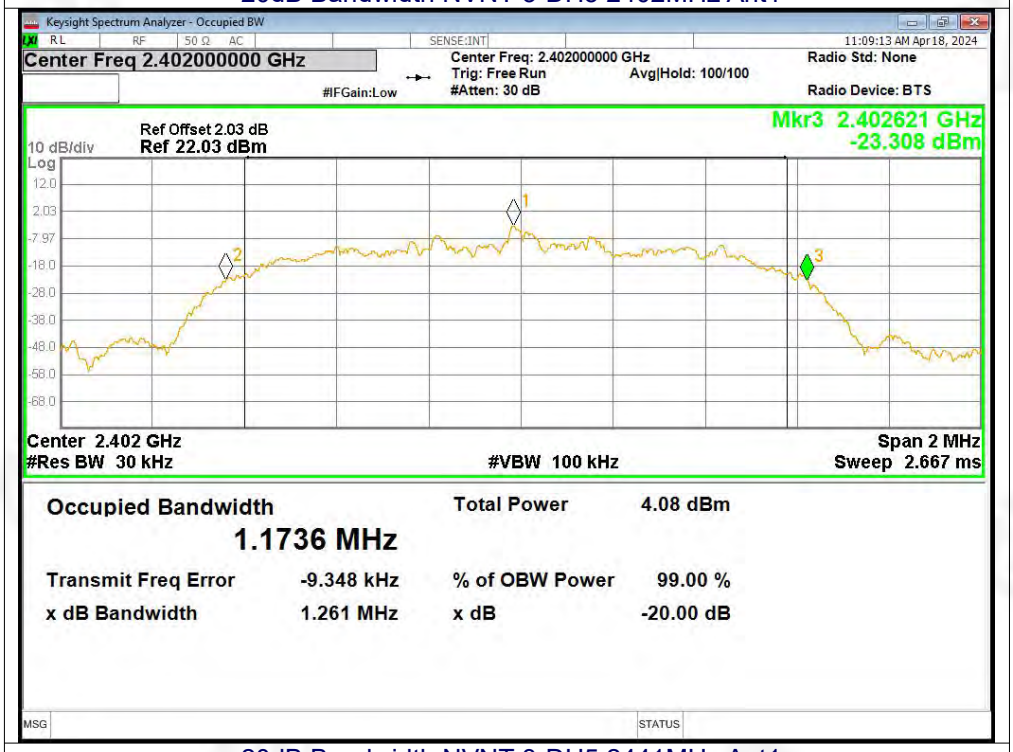
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



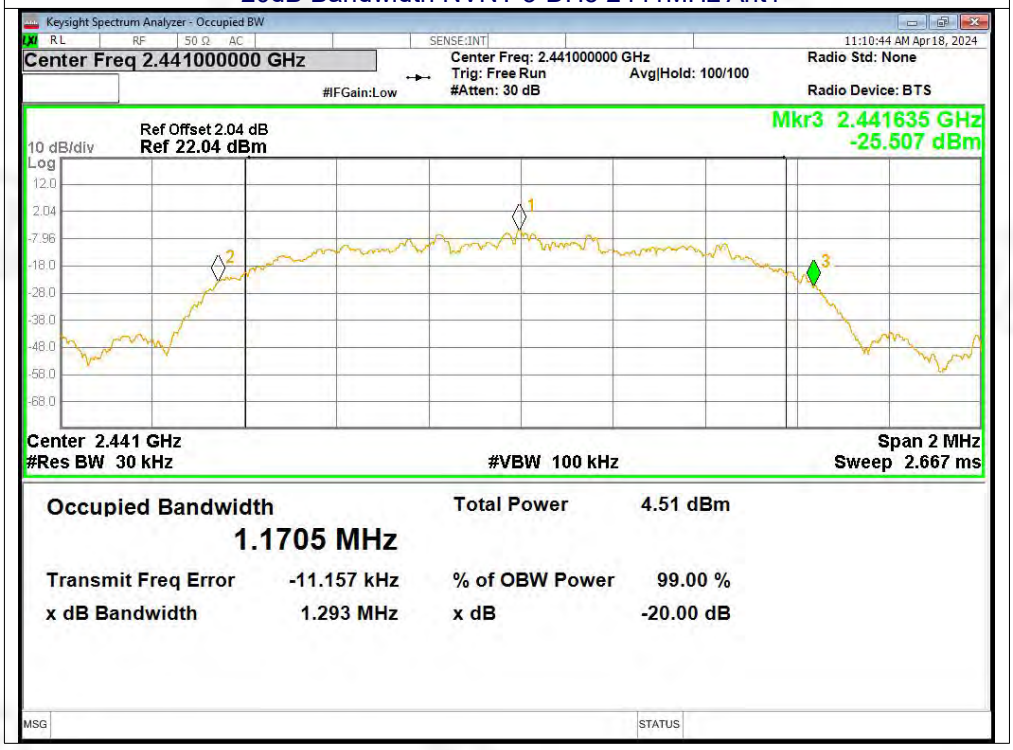
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



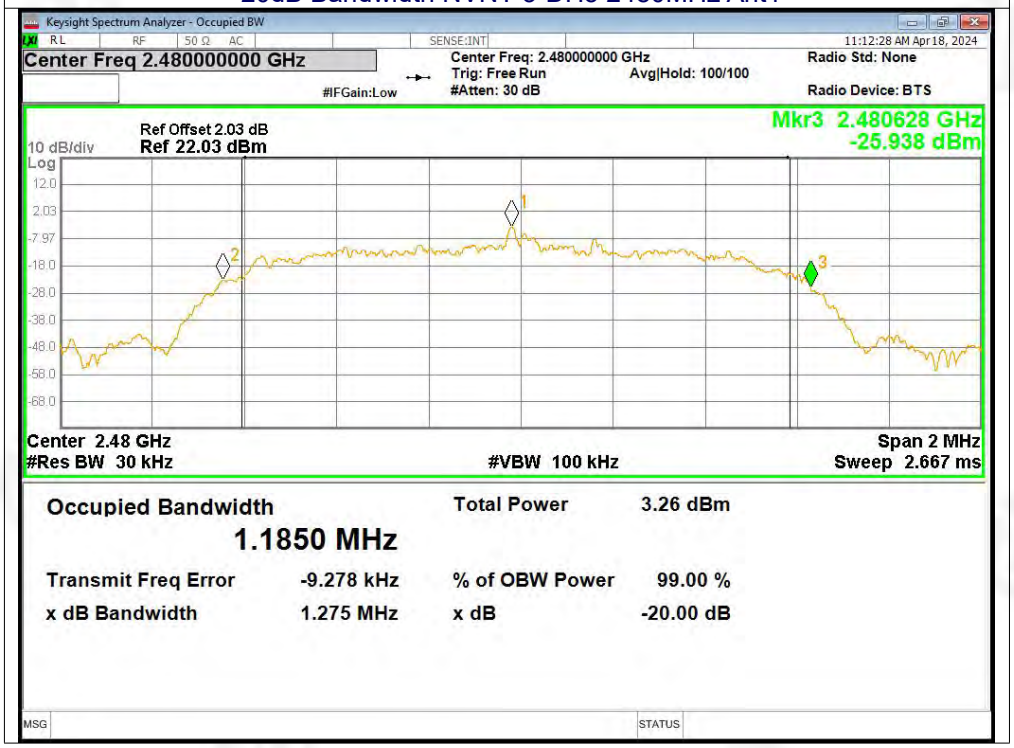
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013

8.1 Block Diagram Of Test Setup

8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W.

8.3 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 = 2MHz. VBW =6MHz. Sweep = auto; Detector Function = Peak.

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

8.4 DEVIATION FROM STANDARD

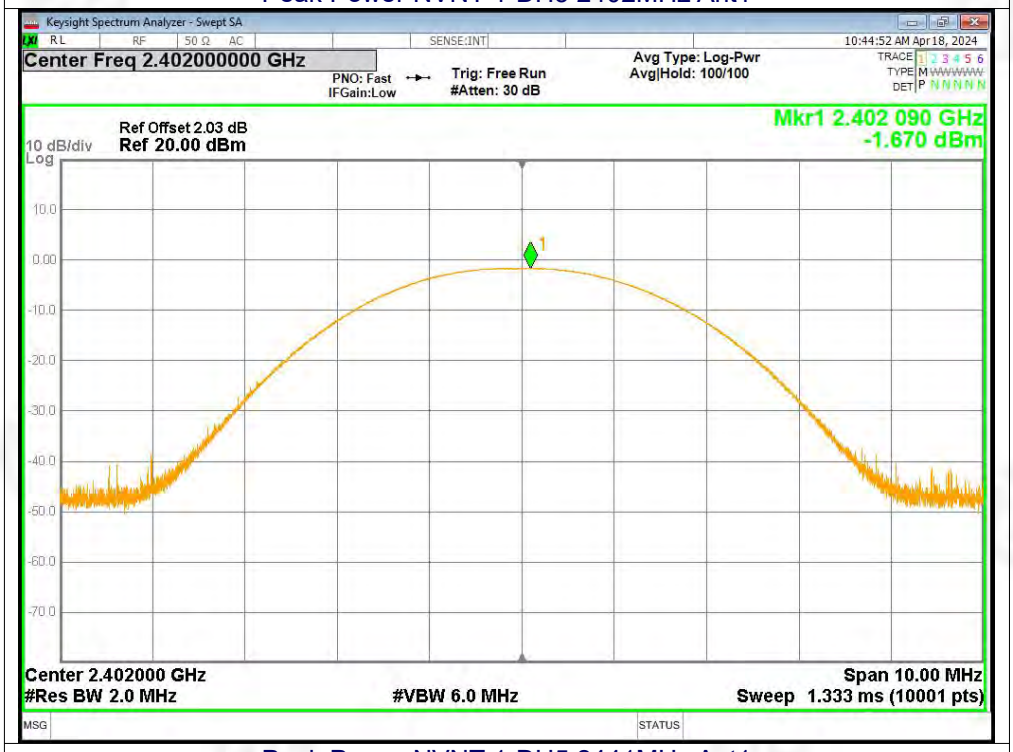
No deviation.

8.5 Test Result

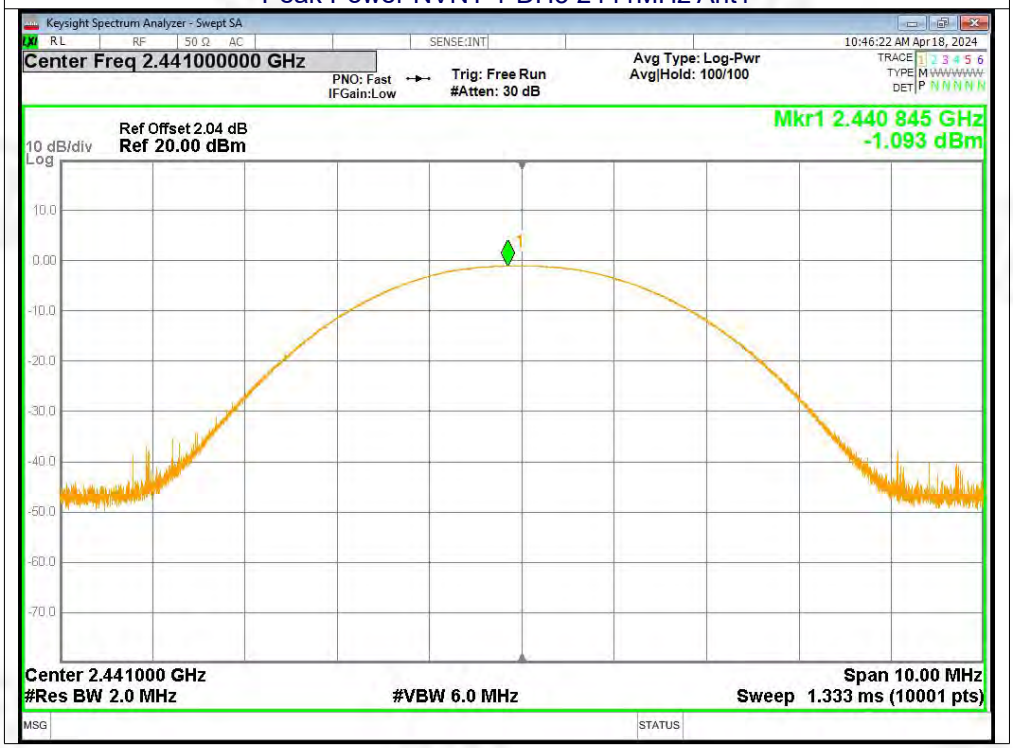
Mode	Test channel	Peak Output Power (dBm)-Earphone Left	Peak Output Power (dBm)-Earphone Right	FCC Limit (dBm)	Result
GFSK	Lowest	-1.67	-1.60	21.00	Pass
	Middle	-1.09	-1.05		
	Highest	-1.99	-2.03		
π/4DQPSK	Lowest	-0.9	-0.94	21.00	Pass
	Middle	-0.33	-0.39		
	Highest	-1.25	-1.27		
8DPSK	Lowest	-0.6	-0.65	21.00	Pass
	Middle	-0.03	-0.05		
	Highest	-0.91	-1.02		

Test Graphs

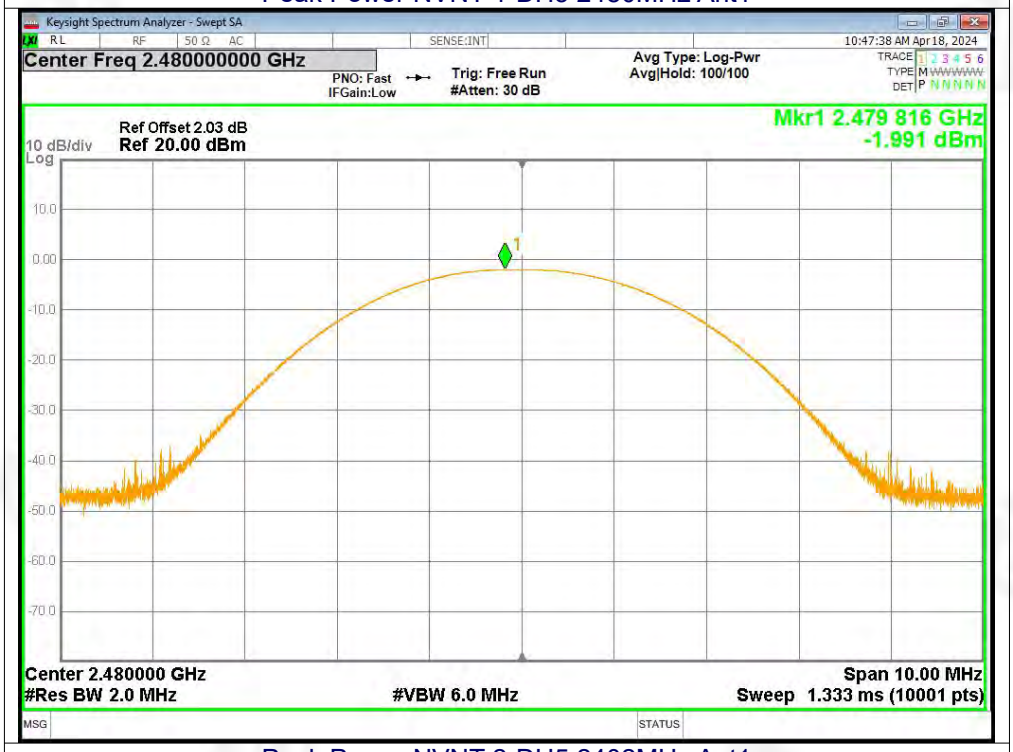
Peak Power NVNT 1-DH5 2402MHz Ant1



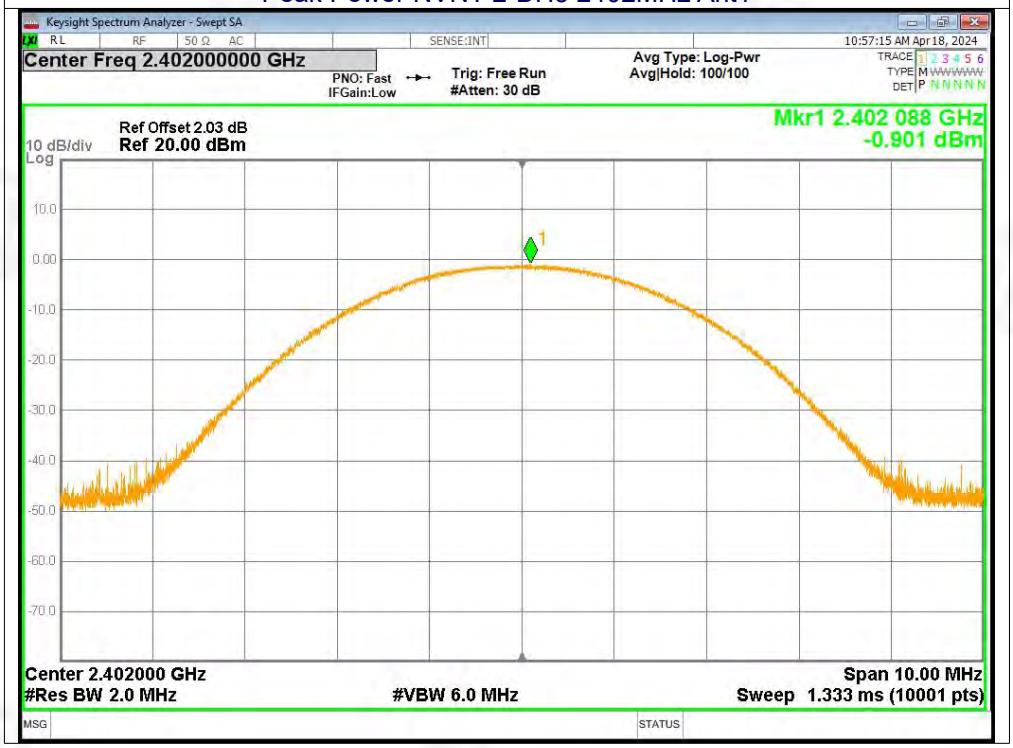
Peak Power NVNT 1-DH5 2441MHz Ant1



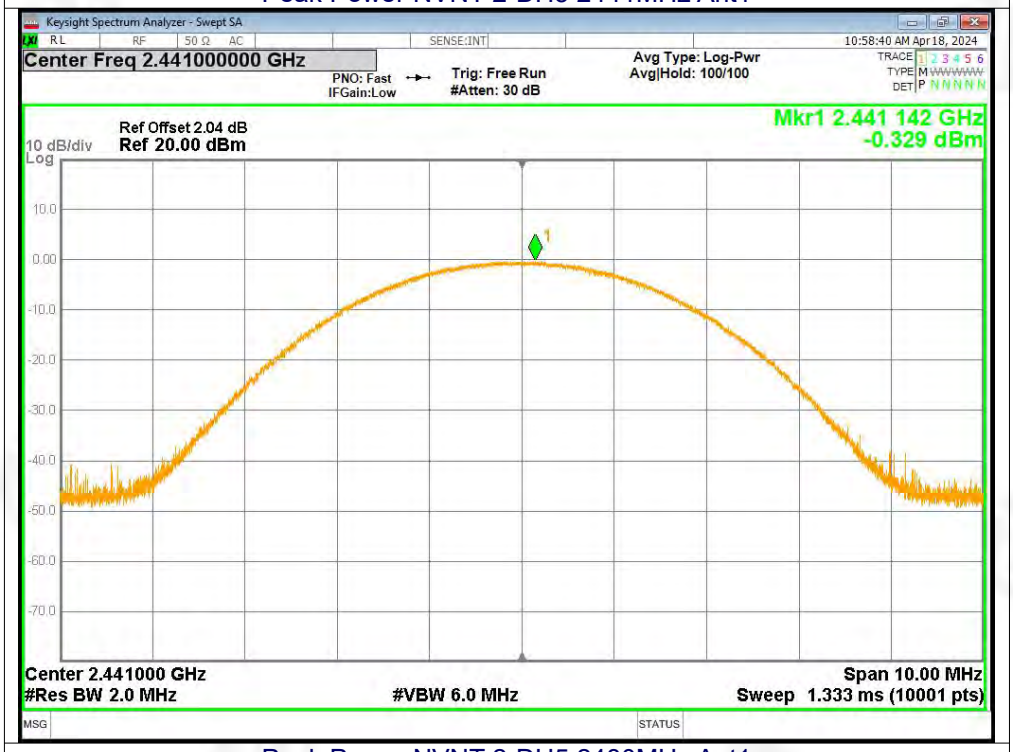
Peak Power NVNT 1-DH5 2480MHz Ant1



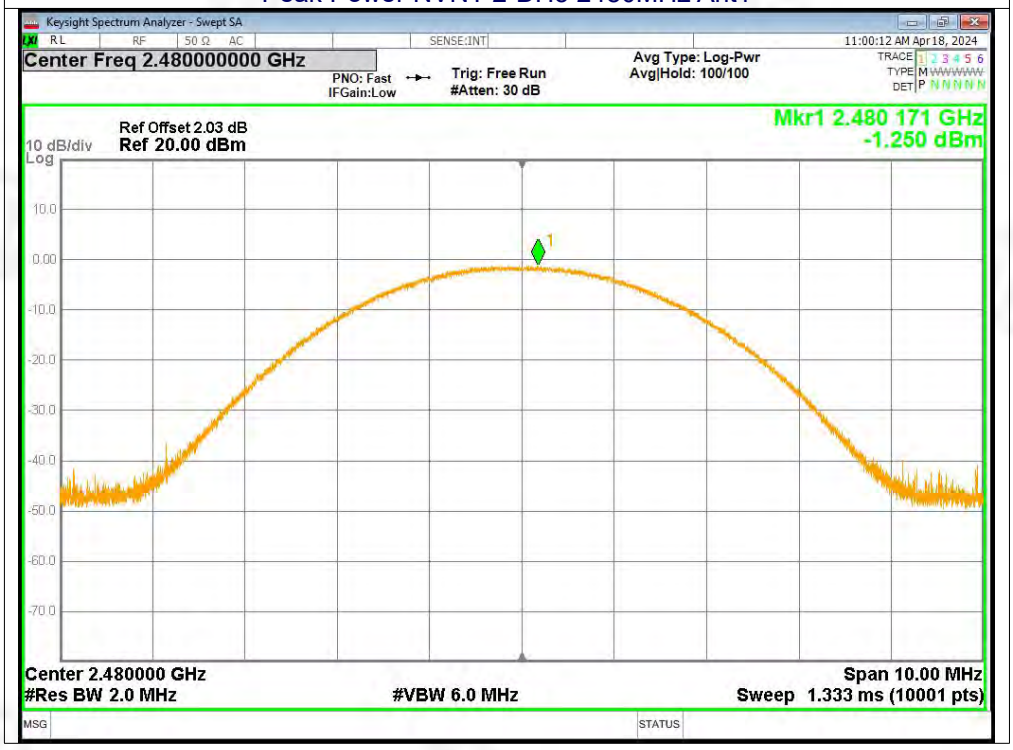
Peak Power NVNT 2-DH5 2402MHz Ant1



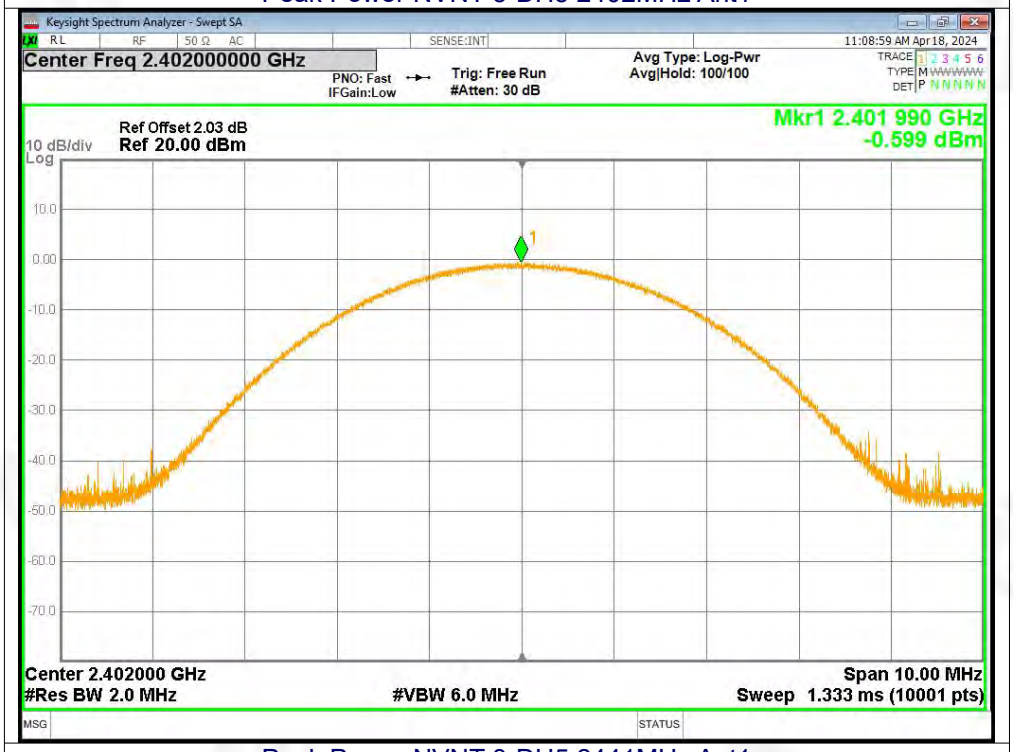
Peak Power NVNT 2-DH5 2441MHz Ant1



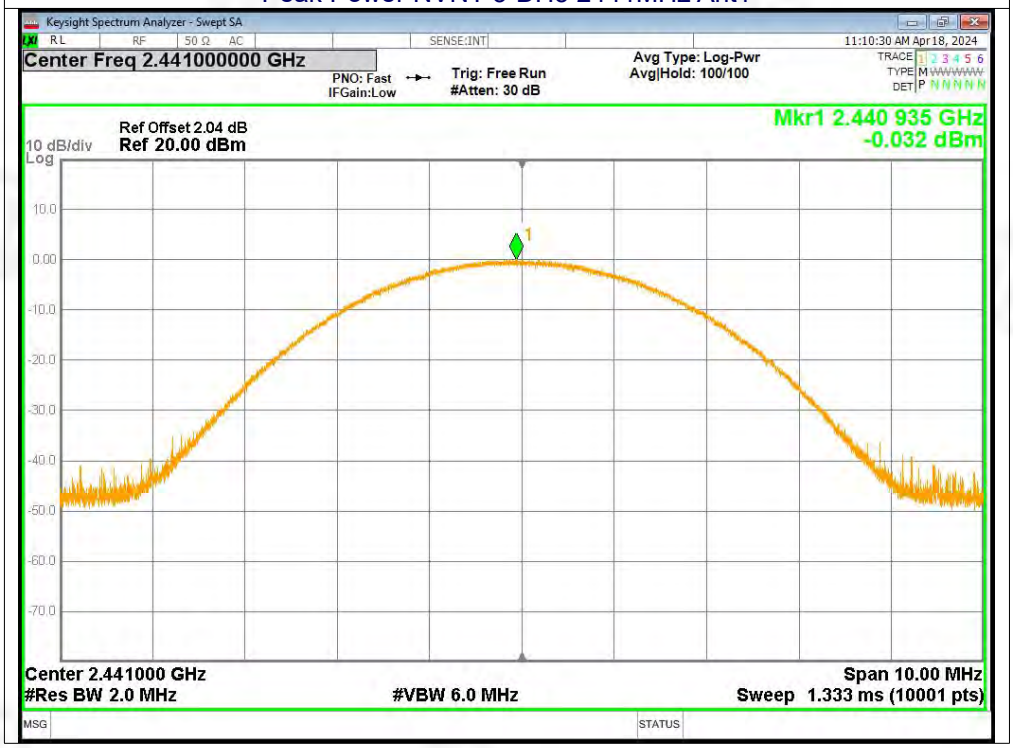
Peak Power NVNT 2-DH5 2480MHz Ant1



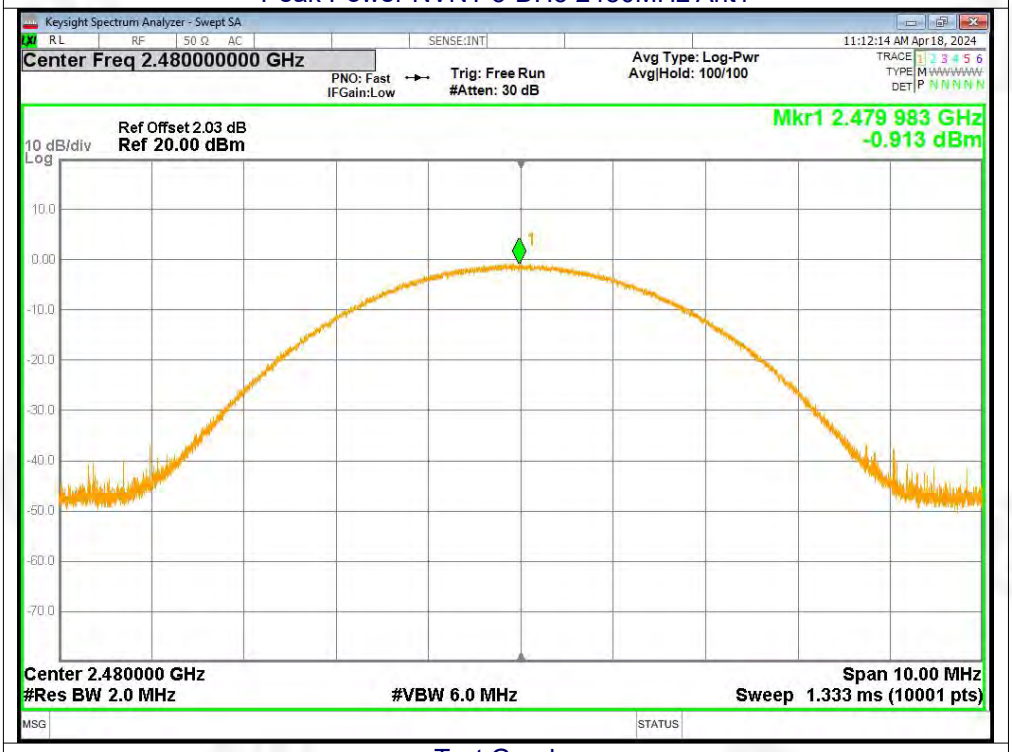
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1

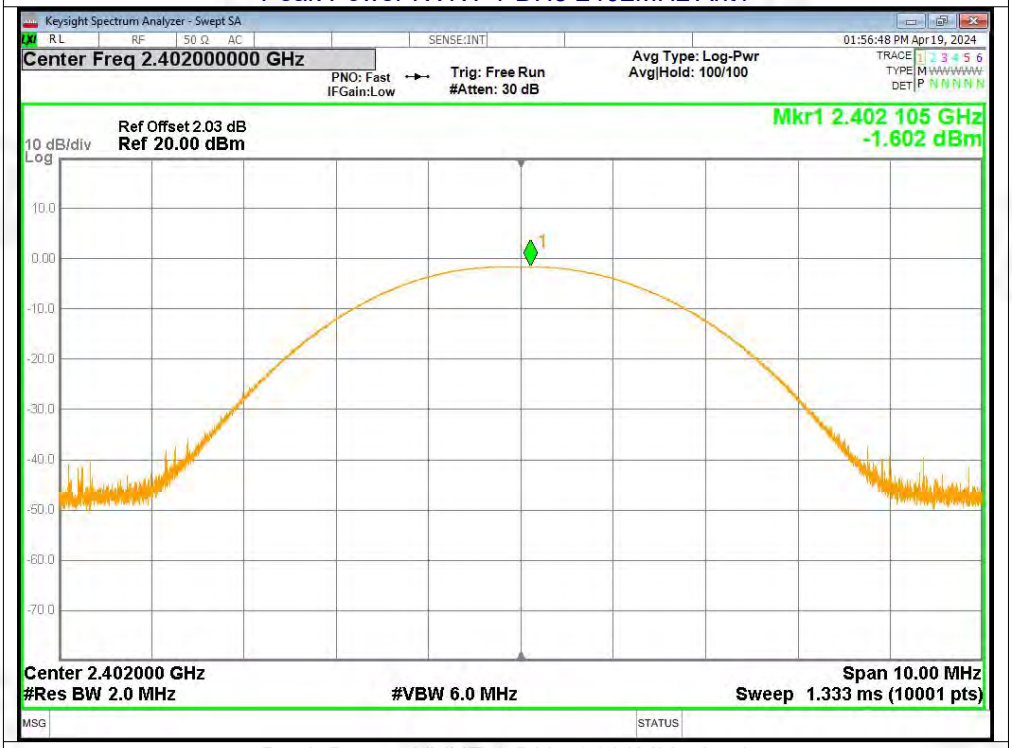


Peak Power NVNT 3-DH5 2480MHz Ant1



Test Graphs

Peak Power NVNT 1-DH5 2402MHz Ant1



Peak Power NVNT 1-DH5 2441MHz Ant1