FCC TEST REPORT
FCC ID:2BEET-RGB

Report Number. ..... :	**ZHT-231218018E**
Date of Test ..... :	Dec. 18, 2013 to Jan. 08, 2024
Date of issue ..... :	Jan. 08, 2024
Test Result ..... :	PASS
Testing Laboratory. ..... :	**Guangdong Zhonghan Testing Technology Co., Ltd.**
Address ..... :	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name ..... :	**Shenzhen Oukai Automotive Technology Co., Ltd.**
Address	216, Building B, Qianwan Zhichuang, Lane 1, Xiawei Yuanxin Village, Gushu Community, Xixiang Street, Bao'an District, Shenzhen
Manufacturer's name ..... :	**Shenzhen Oukai Automotive Technology Co., Ltd.**
Address ..... :	216, Building B, Qianwan Zhichuang, Lane 1, Xiawei Yuanxin Village, Gushu Community, Xixiang Street, Bao'an 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 ZHT, 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 ..... :	**Car Ai Box**
Trademark ..... :	/
Model/Type reference ..... :	X1-RGB, Z1-RGB
Model Difference ..... :	Only model name is different.
Ratings ..... :	DC 5V by USB

Testing procedure and testing location:

Testing Laboratory.....:	**Guangdong Zhonghan Testing Technology Co., Ltd.**
Address.....:	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tested by (name + signature).....:	Leon Li
Reviewer (name + signature).....:	Baret Wu
Approved (name + signature).....:	Levi Lee

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1. VERSION

Report No.	Version	Description	Approved
ZHT-231218018E	Rev.01	Initial issue of report	Jan. 08, 2024

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
FCC part 15.203/15.247 (b)(4)	Antenna requirement	PASS	
FCC part 15.207	AC Power Line Conducted Emission	PASS	
FCC part 15.247 (b)(3)	Conducted Peak Output Power	PASS	
FCC part 15.247 (a)(2)	Channel Bandwidth& 99% OCB	PASS	
FCC part 15.247 (e)	Power Spectral Density	PASS	
FCC part 15.247(d)	Band Edge	PASS	
FCC part 15.205/15.209	Spurious Emission	PASS	

NOTE:

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

2.1 TEST FACILITY

Guangdong Zhonghan Testing Technology Co., Ltd.
Add. : Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

FCC Registration Number:255941
Designation Number: CN0325
IC Registered No.: 29832
CAB identifier: CN0143

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	Car Ai Box
Test Model No.:	X1-RGB
Hardware Version:	V1.0
Software Version:	V1.0
Sample(s) Status:	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	ANT1/2:PCB antenna
Antenna gain:	ANT1/2:0.77dBi
Power supply:	DC 5V by USB

Note:The device don’t support transmission with ANT1 and ANT2 simultaneously.

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402 MHz	11	2422 MHz	21	2442 MHz	31	2462 MHz
2	2404 MHz	12	2424 MHz	22	2444 MHz	32	2464 MHz
3	2406 MHz	13	2426 MHz	23	2446 MHz	33	2466 MHz
4	2408 MHz	14	2428 MHz	24	2448 MHz	34	2468 MHz
5	2410 MHz	15	2430 MHz	25	2450 MHz	35	2470 MHz
6	2412 MHz	16	2432 MHz	26	2452 MHz	36	2472 MHz
7	2414 MHz	17	2434 MHz	27	2454 MHz	37	2474 MHz
8	2416 MHz	18	2436 MHz	28	2456 MHz	38	2476 MHz
9	2418 MHz	19	2438 MHz	29	2458 MHz	39	2478 MHz
10	2420 MHz	20	2440 MHz	30	2460 MHz	40	2480 MHz

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:

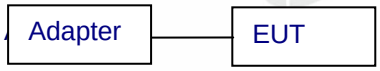
Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz

3.2 DESCRIPTION OF TEST MODES

Transmitting mode	Keep the EUT in continuously transmitting mode
Remark: EUT use new battery 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.	

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Emission



Conducted Spurious

3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
1	Receiver	R&S	ESCI	ZH-E005	May 12, 2023	May 11, 2024
2	Loop antenna	EMCI	LAP600	ZH-E036	May 12, 2023	May 11, 2024
3	Amplifier	Schwarzbeck	BBV 9743 B	ZH-E019	May 12, 2023	May 11, 2024
4	Amplifier	Schwarzbeck	BBV 9718 B	ZH-E021	May 12, 2023	May 11, 2024
5	Bilog Antenna	Schwarzbeck	VULB9162	ZH-E017	May 17, 2023	May 16, 2024
6	Horn Antenna	Schwarzbeck	BBHA9120D	ZH-E020	May 17, 2023	May 16, 2024
7	Horn Antenna	A.H.SYSTEMS	SAS574	ZH-E062	May 12, 2023	May 11, 2024
8	Amplifier	AEROFLEX	100KHz-40GHz	ZH-E063	May 12, 2023	May 11, 2024
9	Spectrum Analyzer	R&S	FSV40	ZH-E064	May 12, 2023	May 11, 2024
10	CDNE	Schwarzbeck	CDNE M2 + CDNE M3	ZH-E029	May 12, 2023	May 11, 2024
11	966 Anechoic Chamber	EMToni	9m6m6m	ZH-E001	Nov. 25, 2021	Nov. 24, 2024
12	Spectrum Analyzer	KEYSIGHT	N9020A	ZH-E032	May 12, 2023	May 11, 2024
13	WIDBAND RADIO COMMUNICATION TESTER	R&S	CMW500	ZH-E033	May 12, 2023	May 11, 2024
14	Single Generator	Agilent	N5182A	ZH-E034	May 12, 2023	May 11, 2024
15	Power Sensor	MWRFtest	MW100-RFCB	ZH-E066	May 12, 2023	May 11, 2024
16	Audio analyzer	R&S	UPL	ZH-E067	May 12, 2023	May 11, 2024
17	Single Generator	R&S	SMB100A	ZH-E068	May 12, 2023	May 11, 2024
18	Power Amplifier Shielding Room	EMToni	2m3m3m	ZH-E003	Nov. 25, 2021	Nov. 24, 2024

Conduction Test equipment

Equipment	Manufacturer	Model	Instrument number	Last Cal.	Next Cal.
Receiver	R&S	ESCI	ZH-E005	May 12, 2023	May 11, 2024
LISN	R&S	ENV216	ZH-E006	May 12, 2023	May 11, 2024
ISN CAT 6	Schwarzbeck	NTFM 8158	ZH-E012	May 12, 2023	May 11, 2024
ISN CAT 5	Schwarzbeck	CAT5 8158	ZH-E013	May 12, 2023	May 11, 2024
Capacitive Voltage Probe	Schwarzbeck	CVP 9222 C	ZH-E014	May 12, 2023	May 11, 2024
Current Transformer Clamp	Schwarzbeck	SW 9605	ZH-E015	May 12, 2023	May 11, 2024
CE Shielding Room	EMToni	9m4m3m	ZH-E002	Nov. 25, 2021	Nov. 24, 2024

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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
	QP	AVG	
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.

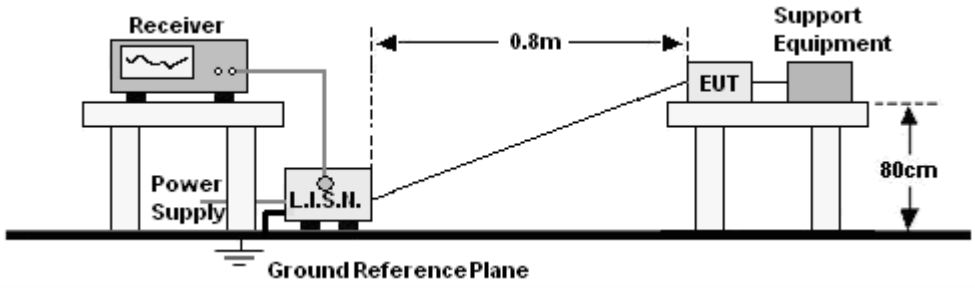
4.1.2 TEST PROCEDURE

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



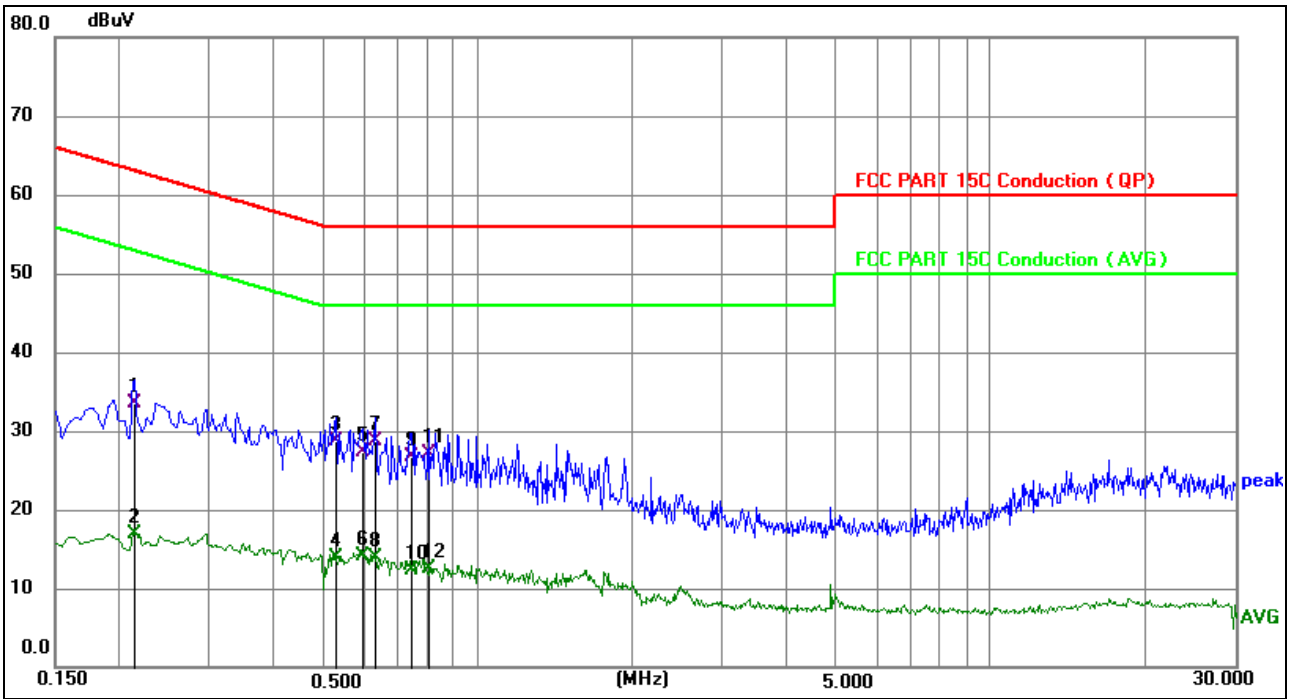
4.1.5 EUT OPERATING CONDITIONS

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 RESULTS

Note: All the antennas had been tested, just worst case(ANT1) record in the report.

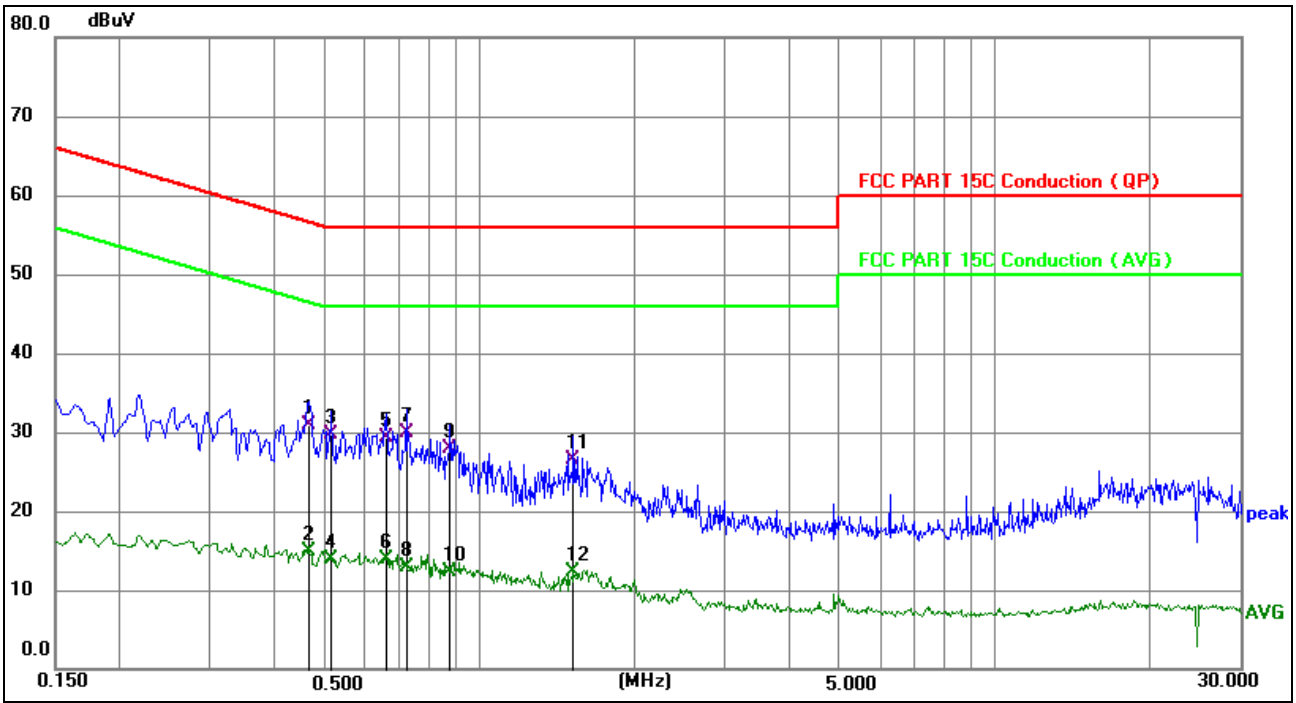
Temperature:	24.3℃	Relative Humidity :	50%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2130	23.62	9.92	33.54	63.09	-29.55	QP	P	
2	0.2130	7.04	9.92	16.96	53.09	-36.13	AVG	P	
3 *	0.5280	18.62	10.02	28.64	56.00	-27.36	QP	P	
4	0.5280	3.92	10.02	13.94	46.00	-32.06	AVG	P	
5	0.5955	17.30	10.03	27.33	56.00	-28.67	QP	P	
6	0.5955	4.06	10.03	14.09	46.00	-31.91	AVG	P	
7	0.6312	18.59	10.03	28.62	56.00	-27.38	QP	P	
8	0.6312	3.81	10.03	13.84	46.00	-32.16	AVG	P	
9	0.7440	16.72	10.04	26.76	56.00	-29.24	QP	P	
10	0.7440	2.24	10.04	12.28	46.00	-33.72	AVG	P	
11	0.8024	16.98	10.04	27.02	56.00	-28.98	QP	P	
12	0.8024	2.38	10.04	12.42	46.00	-33.58	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.The test data shows only the worst case Low Channel:2402MHz.

Temperature:	24.3℃	Relative Humidity :	50%
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 *	0.4661	20.97	10.01	30.98	56.58	-25.60	QP	P	
2	0.4661	4.93	10.01	14.94	46.58	-31.64	AVG	P	
3	0.5154	19.63	10.02	29.65	56.00	-26.35	QP	P	
4	0.5154	3.93	10.02	13.95	46.00	-32.05	AVG	P	
5	0.6576	19.34	10.03	29.37	56.00	-26.63	QP	P	
6	0.6576	3.85	10.03	13.88	46.00	-32.12	AVG	P	
7	0.7197	19.80	10.04	29.84	56.00	-26.16	QP	P	
8	0.7197	2.94	10.04	12.98	46.00	-33.02	AVG	P	
9	0.8756	17.81	10.05	27.86	56.00	-28.14	QP	P	
10	0.8756	2.22	10.05	12.27	46.00	-33.73	AVG	P	
11	1.5192	16.36	10.06	26.42	56.00	-29.58	QP	P	
12	1.5192	2.22	10.06	12.28	46.00	-33.72	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.The test data shows only the worst case Low Channel:2402MHz.

4.2 RADIATED EMISSION MEASUREMENT

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.

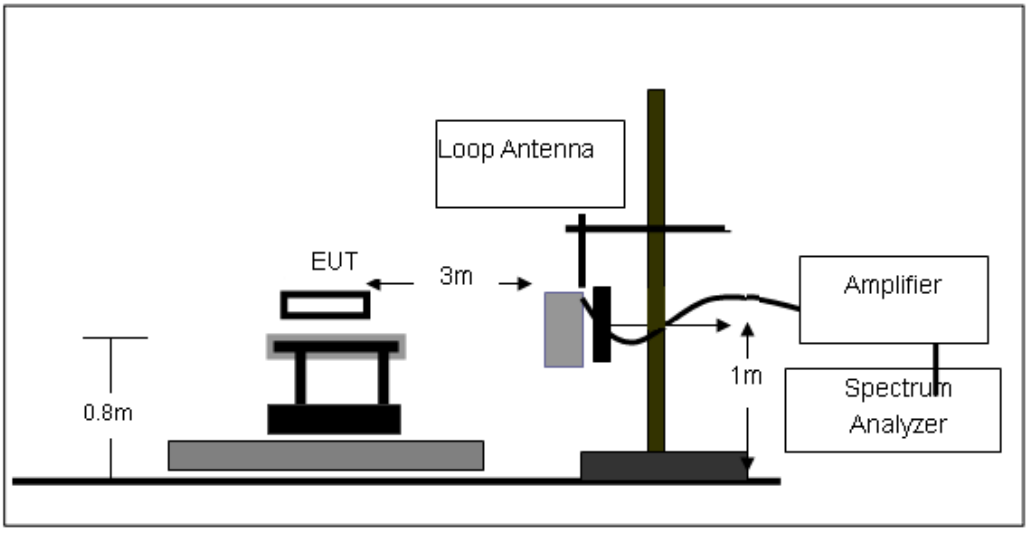
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 TEST PROCEDURE

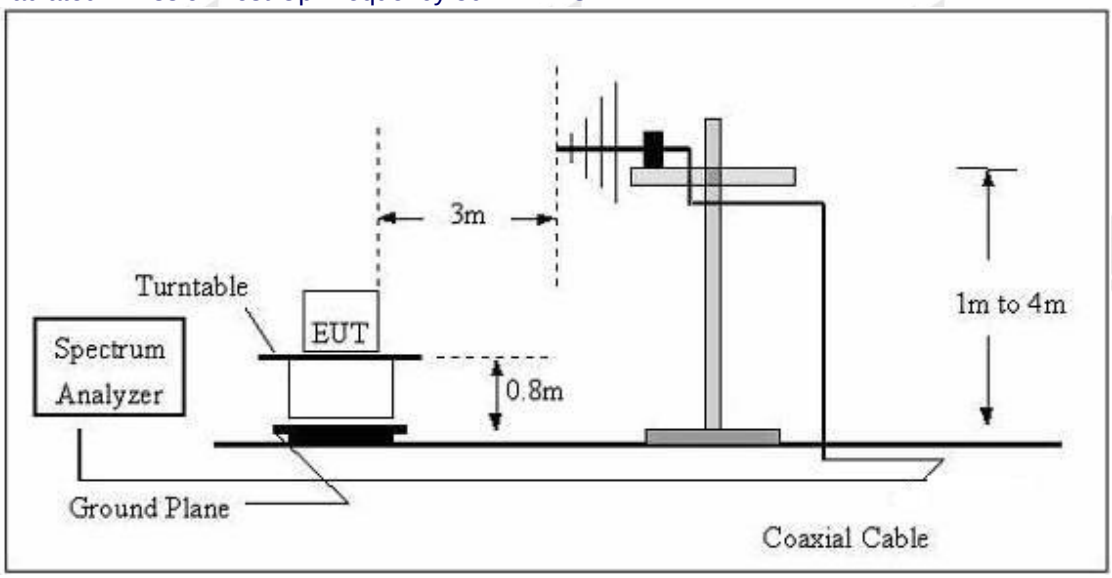
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 25GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-chamber test. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8m; above 1GHz, the height was 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.
g. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.
The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
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

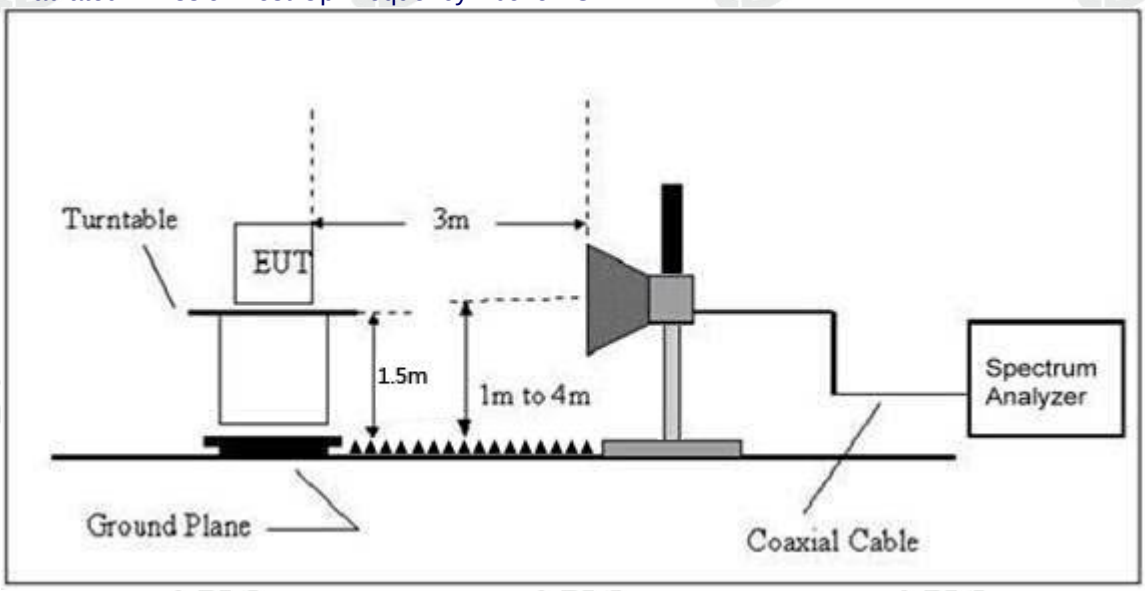
4.2.4 TEST SETUP
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

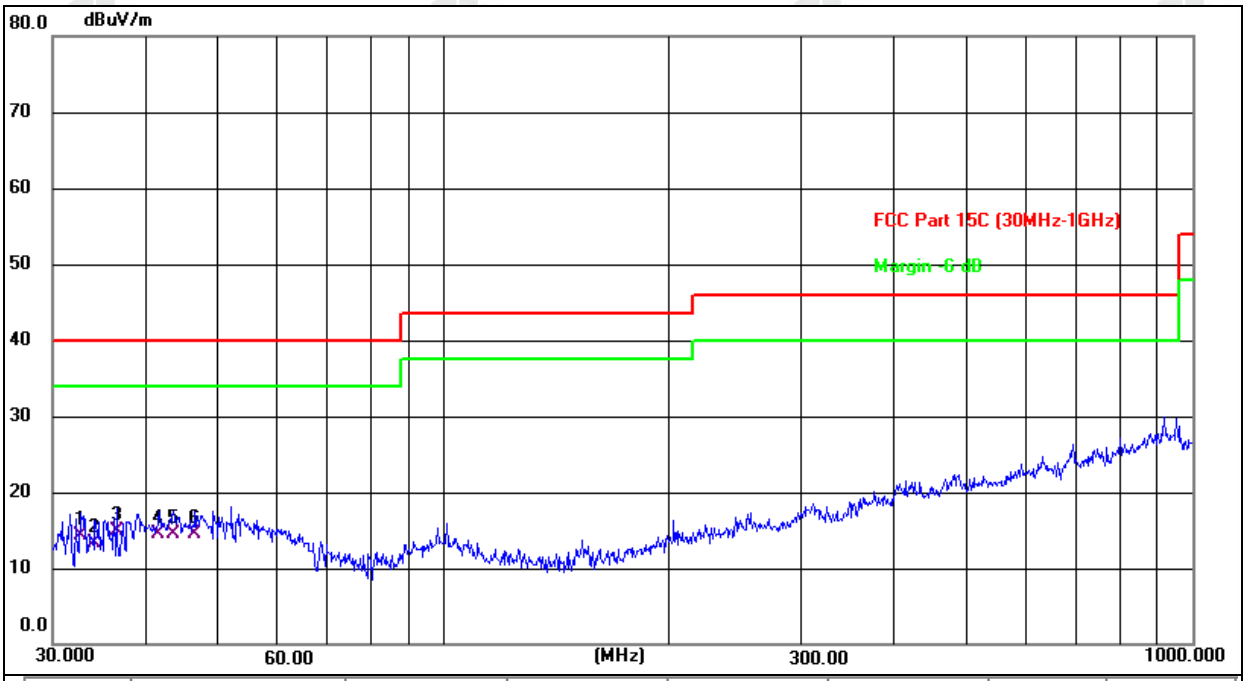
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.2.6 TEST RESULTS (Between 9KHz – 30 MHz)

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.

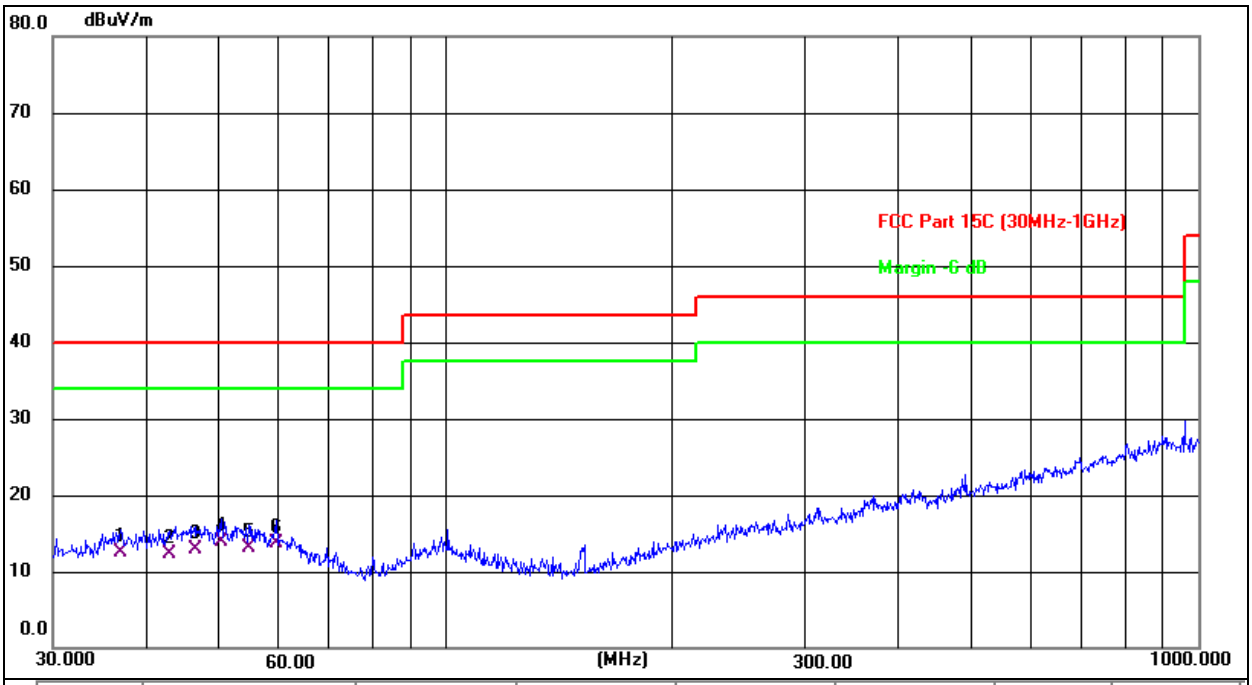
Between 30MHz – 1GHz
Note: All the antennas had been tested, just worst case(ANT1) record in the report.

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Horizontal
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.6340	25.34	-10.98	14.36	40.00	-25.64	QP
2	34.1560	24.00	-10.71	13.29	40.00	-26.71	QP
3 *	36.5090	25.16	-10.31	14.85	40.00	-25.15	QP
4	41.7129	23.93	-9.52	14.41	40.00	-25.59	QP
5	43.5056	23.81	-9.36	14.45	40.00	-25.55	QP
6	46.5030	23.65	-9.07	14.58	40.00	-25.42	QP

Temperature :	25.1℃	Relative Humidity :	50%
Pressure :	101kPa	Polarization :	Vertical
Test Voltage :	AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8952	22.68	-10.24	12.44	40.00	-27.56	QP
2	42.8997	21.70	-9.41	12.29	40.00	-27.71	QP
3	46.5030	22.07	-9.07	13.00	40.00	-27.00	QP
4 *	50.2323	22.66	-8.77	13.89	40.00	-26.11	QP
5	54.6428	22.35	-9.25	13.10	40.00	-26.90	QP
6	59.4405	23.47	-9.78	13.69	40.00	-26.31	QP

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.

1GHz~25GHz

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	4806.00	57.31	30.55	5.77	24.66	57.19	74	-16.81	Pk
V	4806.00	43.17	30.55	5.77	24.66	43.05	54	-10.95	AV
V	7206.00	59.73	30.33	6.32	24.55	60.27	74	-13.73	Pk
V	7206.00	42.76	30.33	6.32	24.55	43.3	54	-10.7	AV
H	4806.00	57.81	30.55	5.77	24.66	57.69	74	-16.31	Pk
H	4806.00	44.29	30.55	5.77	24.66	44.17	54	-9.83	AV
H	7206.00	57.47	30.33	6.32	24.55	58.01	74	-15.99	Pk
H	7206.00	42.75	30.33	6.32	24.55	43.29	54	-10.71	AV
Middle Channel:2440MHz									
V	4882.00	58.03	30.55	5.77	24.66	57.91	74	-16.09	Pk
V	4882.00	41.59	30.55	5.77	24.66	41.47	54	-12.53	AV
V	7320.00	59.49	30.33	6.32	24.55	60.03	74	-13.97	Pk
V	7320.00	42.65	30.33	6.32	24.55	43.19	54	-10.81	AV
H	4882.00	57.75	30.55	5.77	24.66	57.63	74	-16.37	Pk
H	4882.00	41.23	30.55	5.77	24.66	41.11	54	-12.89	AV
H	7320.00	57.87	30.33	6.32	24.55	58.41	74	-15.59	Pk
H	7320.00	41.51	30.33	6.32	24.55	42.05	54	-11.95	AV
High Channel:2480MHz									
V	4940.00	59.49	30.55	5.77	24.66	59.37	74	-14.63	Pk
V	4940.00	41.81	30.55	5.77	24.66	41.69	54	-12.31	AV
V	7440.00	58.01	30.33	6.32	24.55	58.55	74	-15.45	Pk
V	7440.00	43.2	30.33	6.32	24.55	43.74	54	-10.26	AV
H	4940.00	58.84	30.55	5.77	24.66	58.72	74	-15.28	Pk
H	4940.00	42.37	30.55	5.77	24.66	42.25	54	-11.75	AV
H	7440.00	58.35	30.33	6.32	24.55	58.89	74	-15.11	Pk
H	7440.00	41.79	30.33	6.32	24.55	42.33	54	-11.67	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).

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:

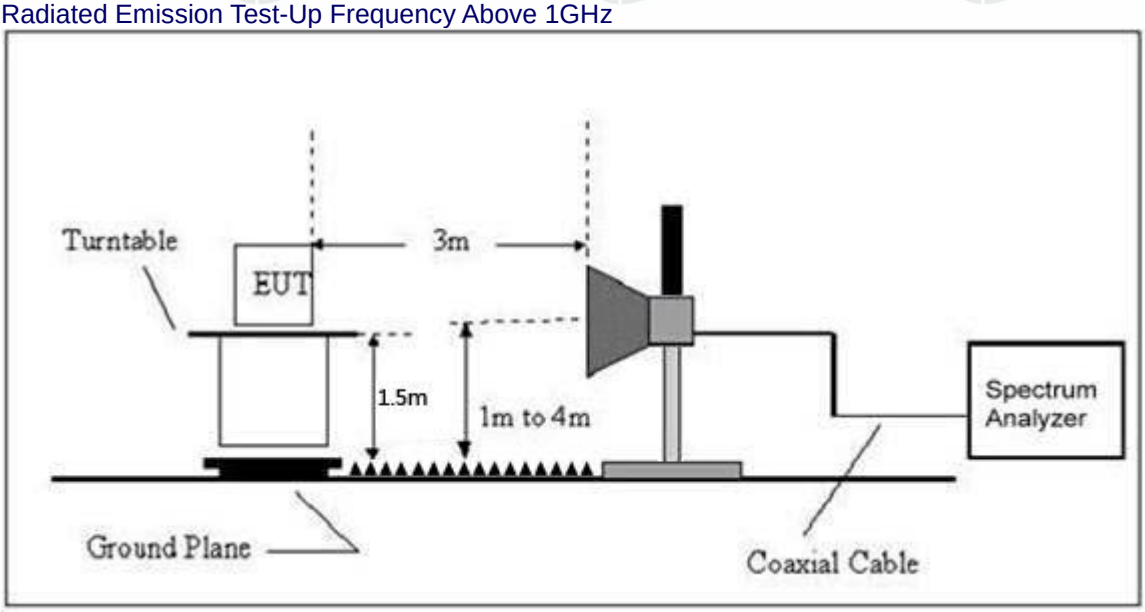
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

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

Note: All the antennas had been tested, just worst case(ANT1) record in the report.

	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	61.07	30.22	4.85	23.98	59.68	74.00	-14.32	PK	PASS
	H	2390.00	46.52	30.22	4.85	23.98	45.13	54.00	-8.87	AV	PASS
	H	2400.00	61.31	30.22	4.85	23.98	59.92	74.00	-14.08	PK	PASS
	H	2400.00	48.45	30.22	4.85	23.98	47.06	54.00	-6.94	AV	PASS
	V	2390.00	59.53	30.22	4.85	23.98	58.14	74.00	-15.86	PK	PASS
	V	2390.00	47.40	30.22	4.85	23.98	46.01	54.00	-7.99	AV	PASS
	V	2400.00	59.41	30.22	4.85	23.98	58.02	74.00	-15.98	PK	PASS
	V	2400.00	48.57	30.22	4.85	23.98	47.18	54.00	-6.82	AV	PASS
	High Channel: 2480MHz										
	H	2483.50	60.44	30.22	4.85	23.98	59.05	74.00	-14.95	AV	PASS
	H	2483.50	47.64	30.22	4.85	23.98	46.25	54.00	-7.75	PK	PASS
	H	2500.00	59.13	30.22	4.85	23.98	57.74	74.00	-16.26	AV	PASS
	H	2500.00	47.55	30.22	4.85	23.98	46.16	54.00	-7.84	PK	PASS
	V	2483.50	62.39	30.22	4.85	23.98	61.00	74.00	-13.00	AV	PASS
	V	2483.50	48.18	30.22	4.85	23.98	46.79	54.00	-7.21	PK	PASS
	V	2500.00	60.59	30.22	4.85	23.98	59.20	74.00	-14.80	AV	PASS
	V	2500.00	46.99	30.22	4.85	23.98	45.60	54.00	-8.40	AV	PASS

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

6.POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8dBm/3kHz	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

Temperature :	25.8℃	Relative Humidity :	52%
Test Mode :	GFSK	Test Voltage :	5V

6.6 TEST RESULTS:

Please refer to the Appendix BLE

7. Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

7.2 TEST PROCEDURE

1. Set RBW = 100 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.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP

7.5 EUT OPERATION 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.

Temperature :	25.8℃	Relative Humidity :	52%
Test Mode :	GFSK	Test Voltage :	5V

7.6 TEST RESULTS:

Please refer to the Appendix BLE

8.PEAK OUTPUT POWER TEST

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

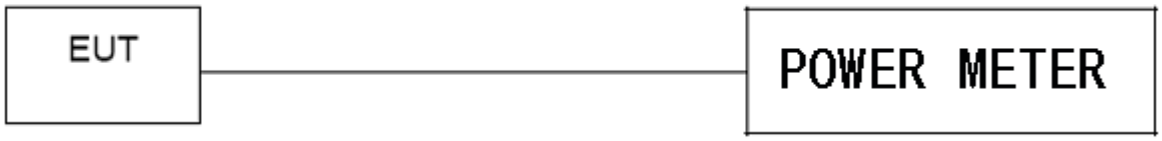
8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP



8.5 EUT OPERATION 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.

Temperature：	25.8℃	Relative Humidity：	52%
Test Mode ：	GFSK	Test Voltage ：	5V

8.6 TEST RESULTS

Please refer to the Appendix BLE

9. Conducted BAND EDGE and Spurious Emission

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074 D0115.247 Meas Guidance v05r02

9.1 APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

9.2 TEST PROCEDURE

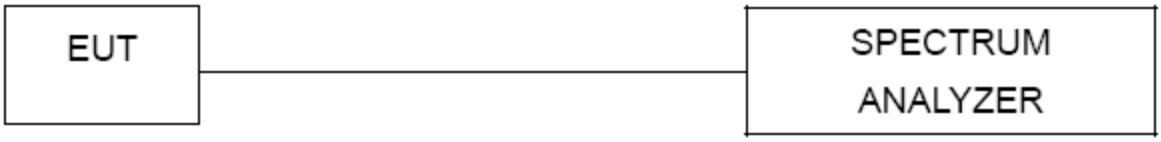
Using the following spectrum analyzer setting:

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.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP



9.5 EUT OPERATION 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.

Temperature :	25.8℃	Relative Humidity :	52%
Test Mode :	GFSK	Test Voltage :	5V

9.6 TEST RESULTS

Please refer to the Appendix BLE

10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(b)(4)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: (4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is PCB antenna, the best case gain of the antennas is 0.77dBi, reference to the appendix II for details	

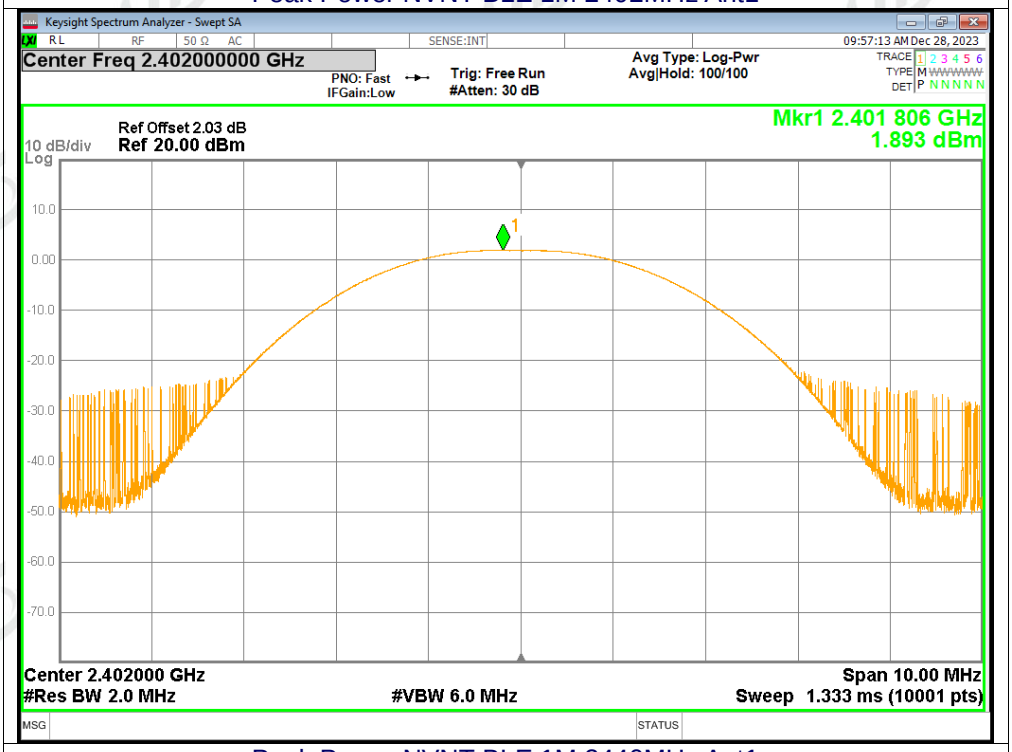
11. APPENDIX BLE

11.1 MAXIMUM PEAK CONDUCTED OUTPUT POWER

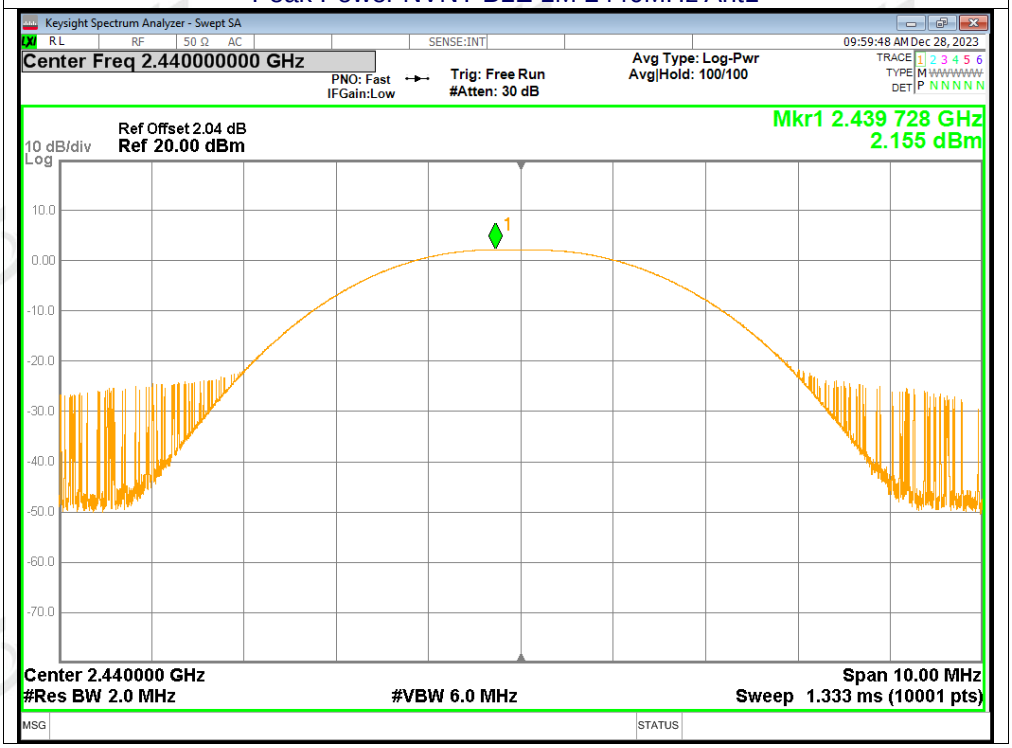
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.89	30	Pass
NVNT	BLE 1M	2440	Ant1	2.15	30	Pass
NVNT	BLE 1M	2480	Ant1	1.87	30	Pass
NVNT	BLE 1M	2402	Ant2	1.74	30	Pass
NVNT	BLE 1M	2440	Ant2	2.1	30	Pass
NVNT	BLE 1M	2480	Ant2	1.79	30	Pass
NVNT	BLE 2M	2402	Ant1	1.93	30	Pass
NVNT	BLE 2M	2440	Ant1	2.17	30	Pass
NVNT	BLE 2M	2480	Ant1	1.88	30	Pass
NVNT	BLE 2M	2402	Ant2	1.79	30	Pass
NVNT	BLE 2M	2440	Ant2	2.21	30	Pass
NVNT	BLE 2M	2480	Ant2	1.89	30	Pass

Test Graphs

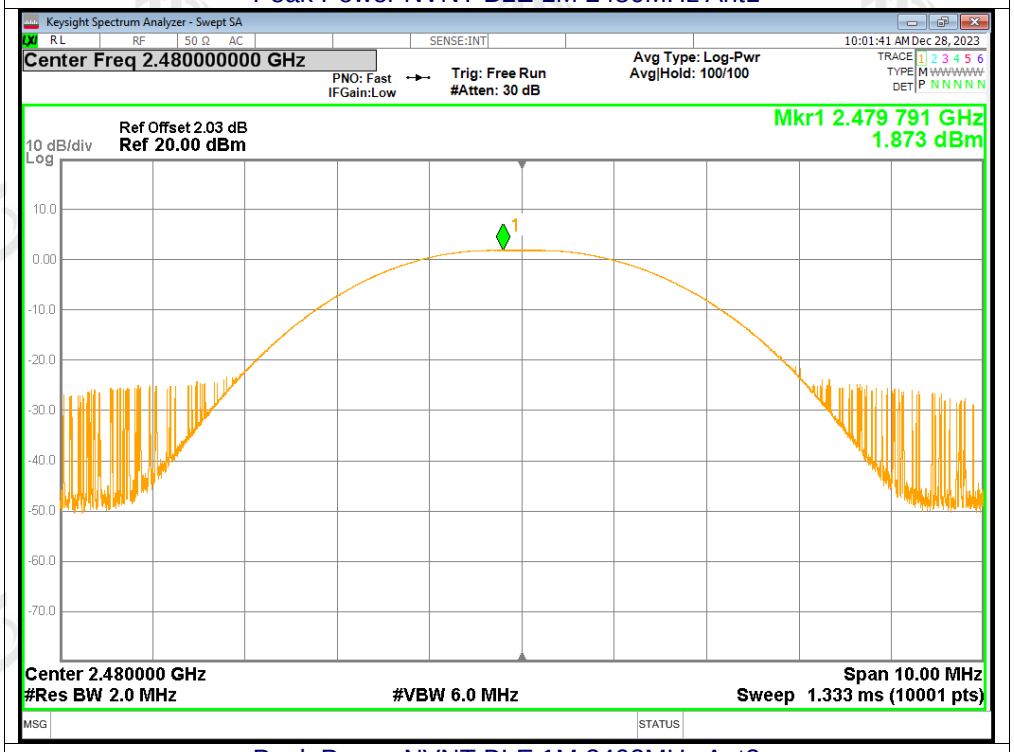
Peak Power NVNT BLE 1M 2402MHz Ant1



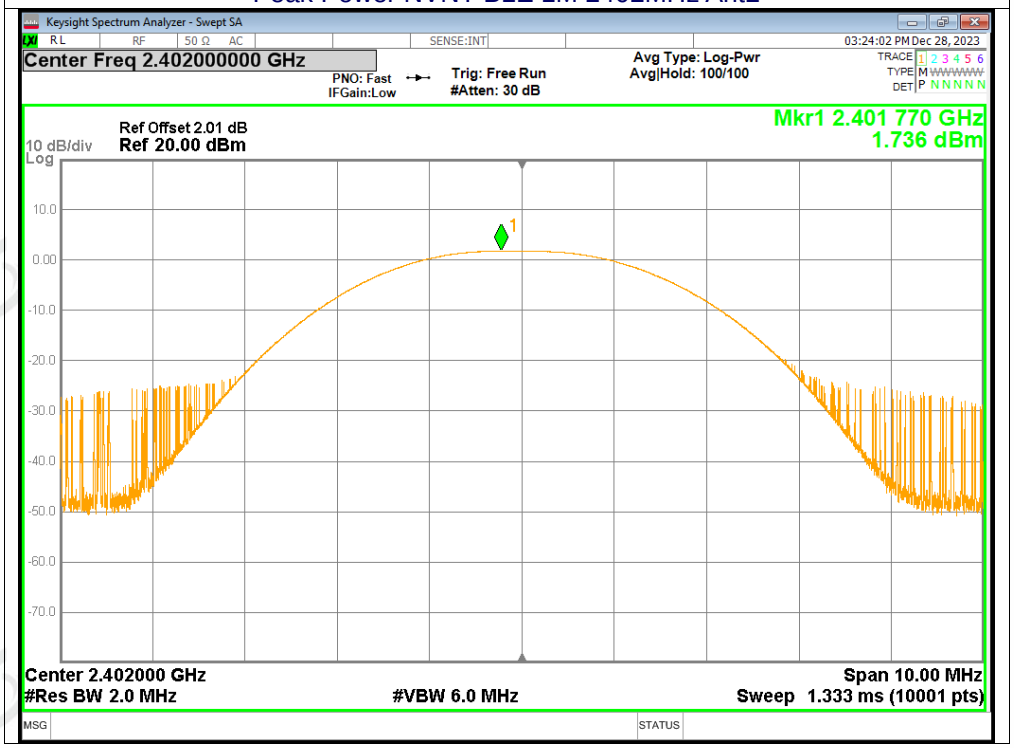
Peak Power NVNT BLE 1M 2440MHz Ant1



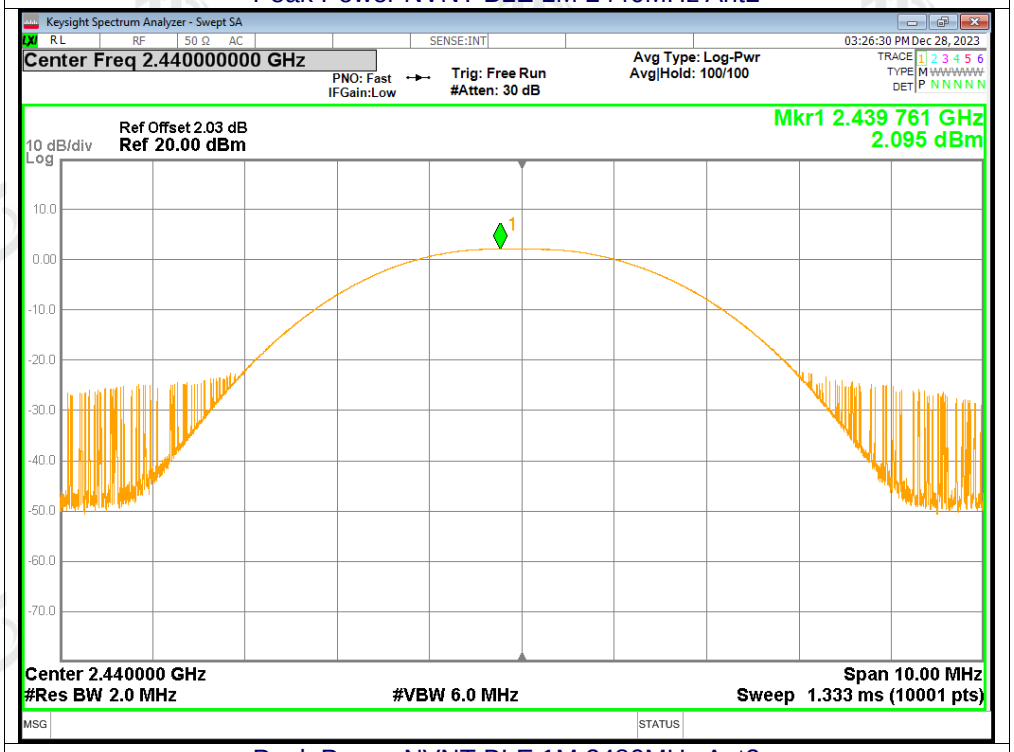
Peak Power NVNT BLE 1M 2480MHz Ant1



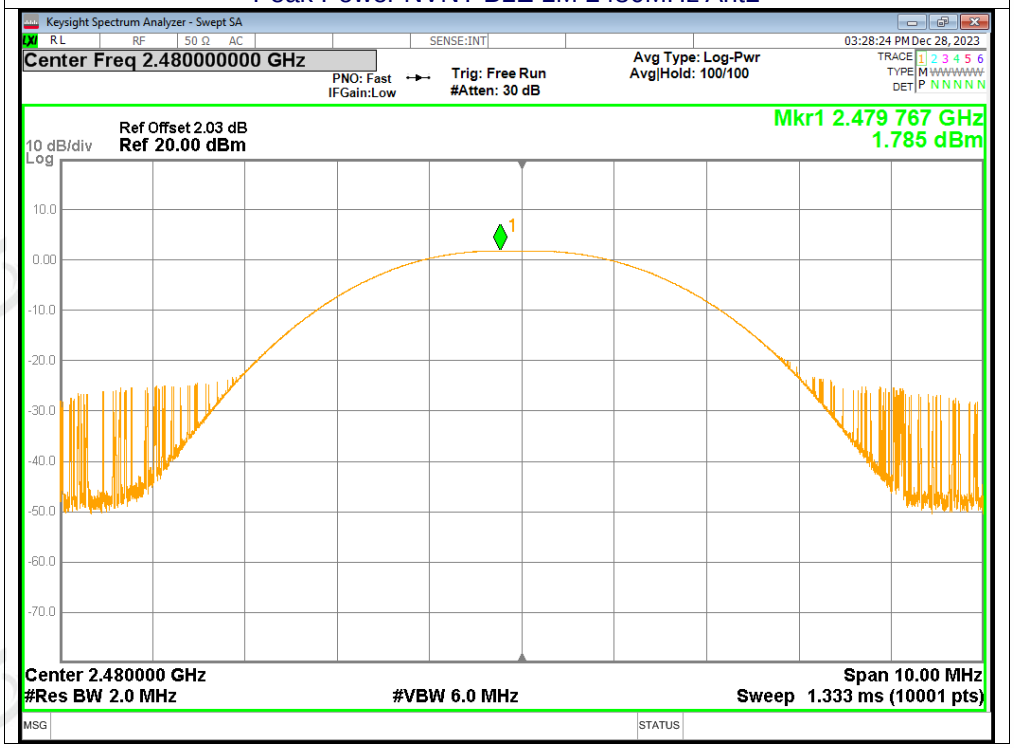
Peak Power NVNT BLE 1M 2402MHz Ant2



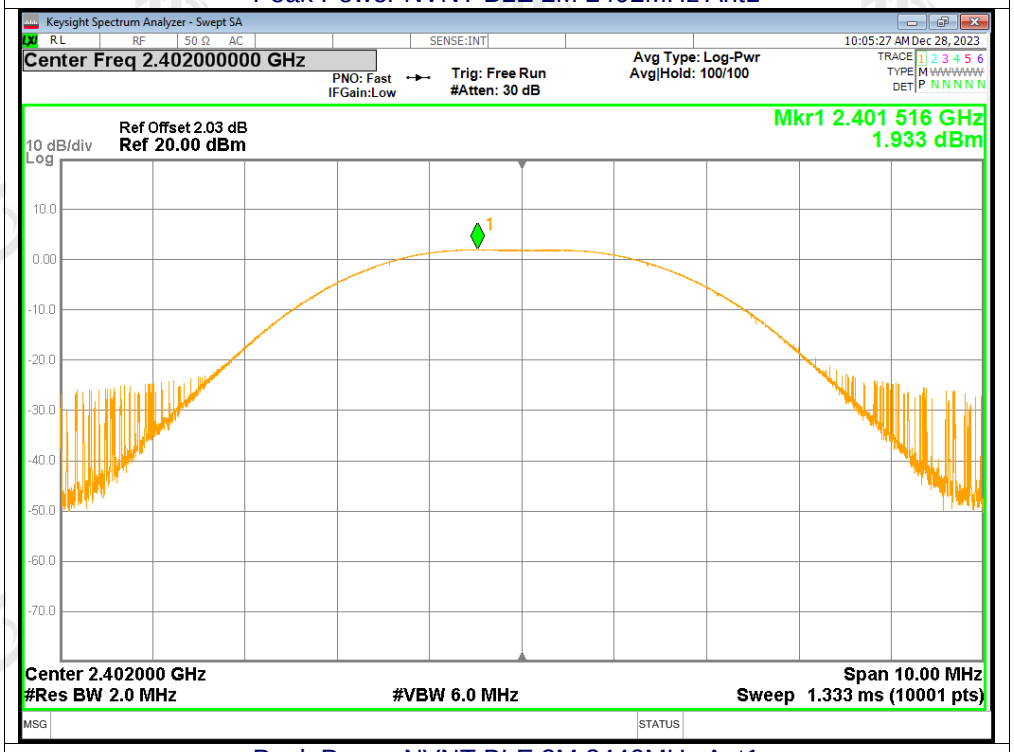
Peak Power NVNT BLE 1M 2440MHz Ant2



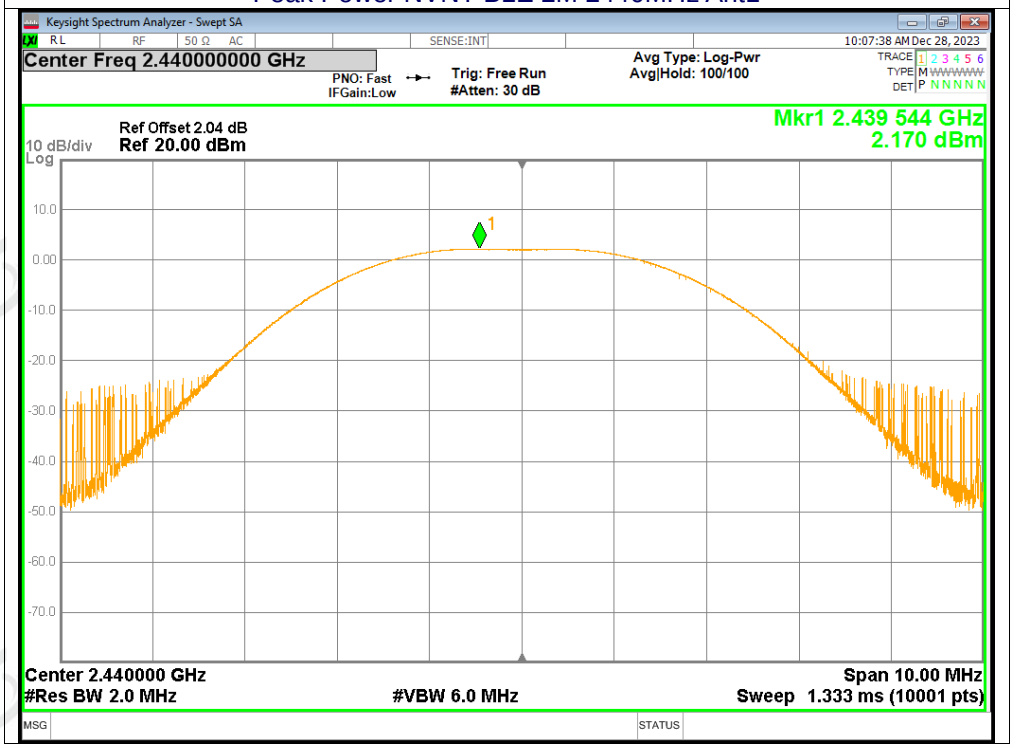
Peak Power NVNT BLE 1M 2480MHz Ant2



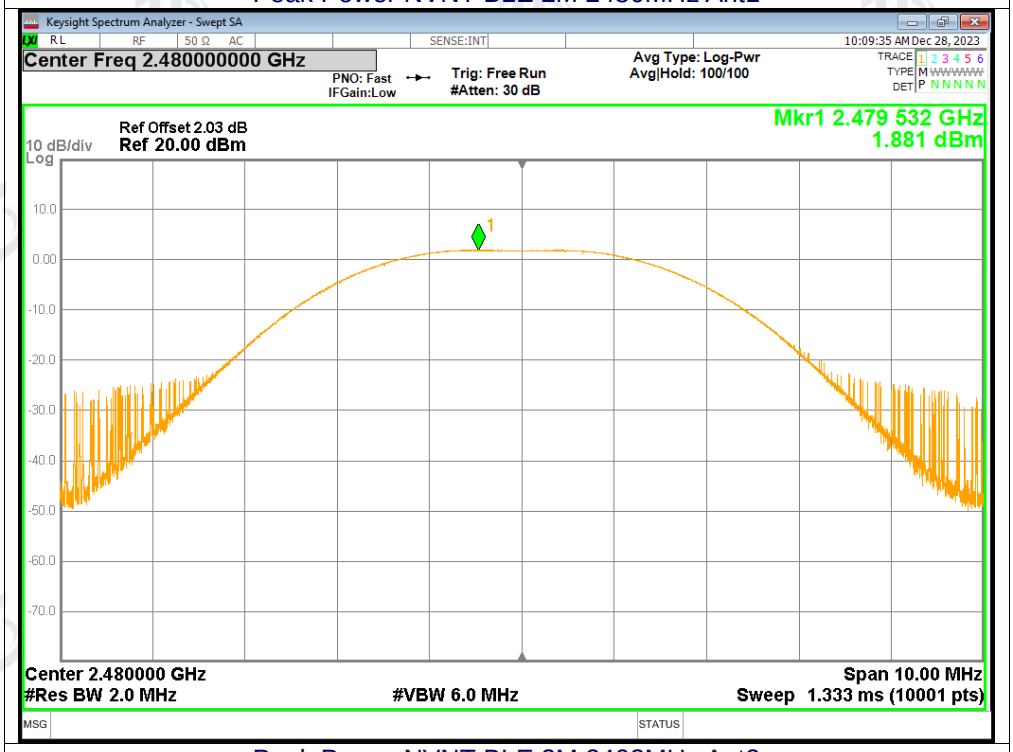
Peak Power NVNT BLE 2M 2402MHz Ant1



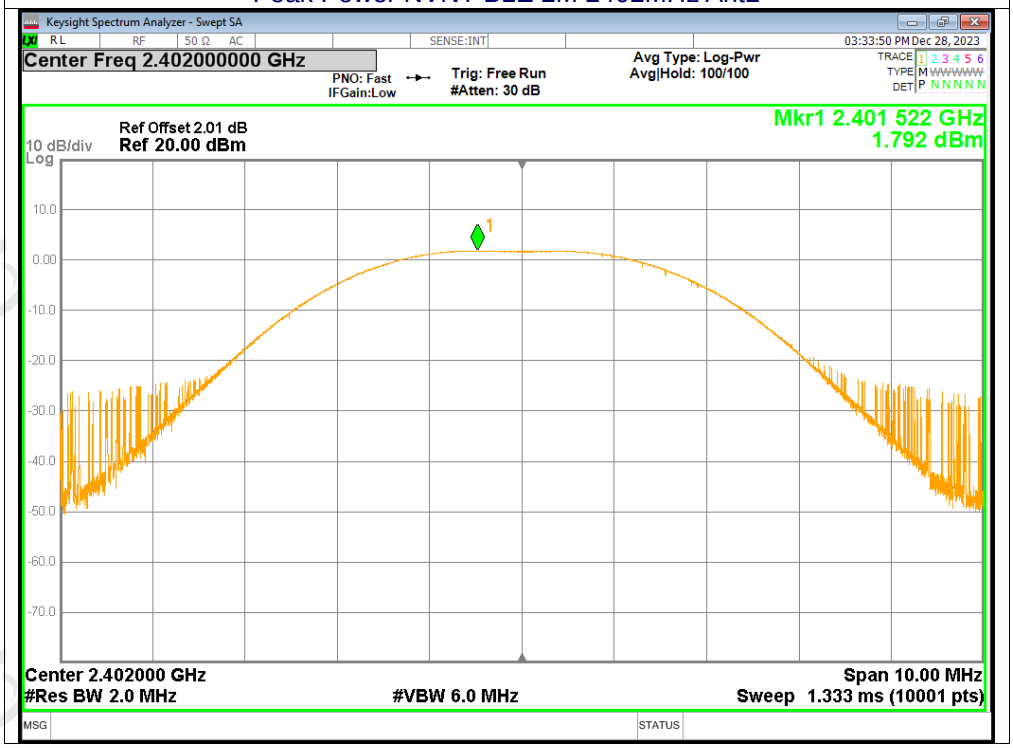
Peak Power NVNT BLE 2M 2440MHz Ant1



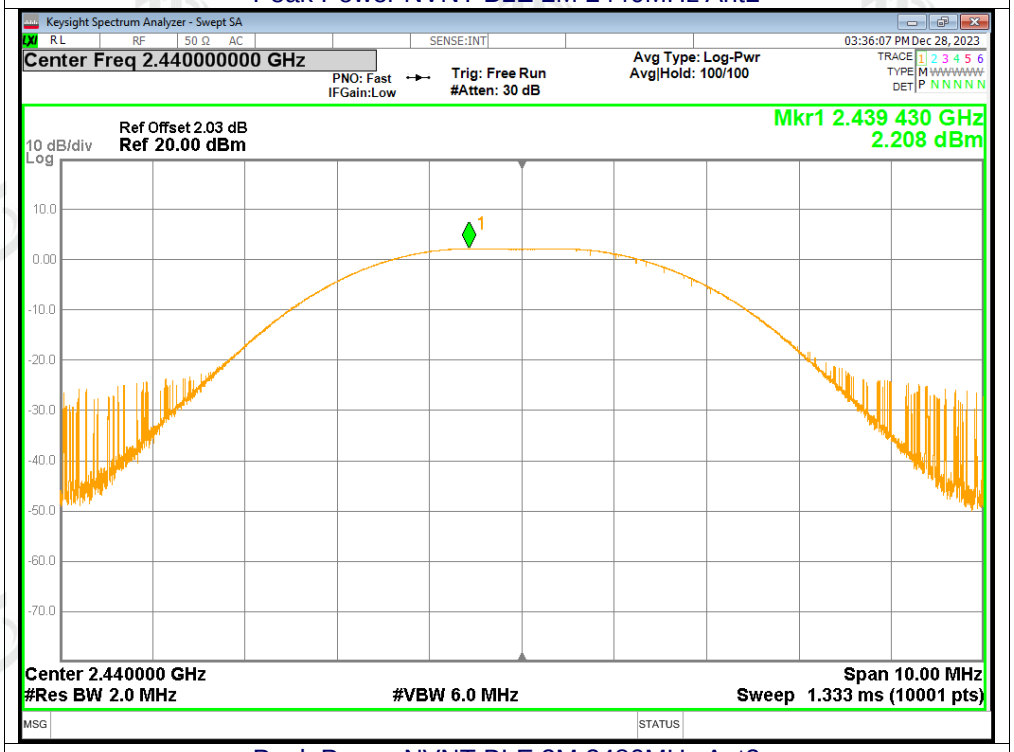
Peak Power NVNT BLE 2M 2480MHz Ant1



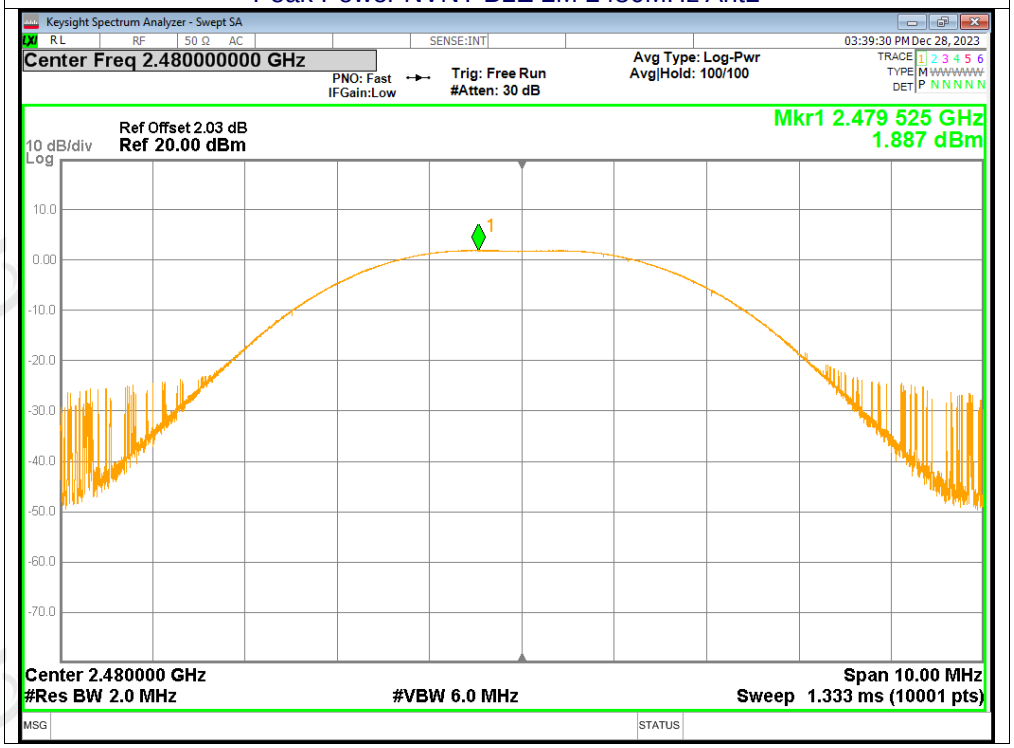
Peak Power NVNT BLE 2M 2402MHz Ant2



Peak Power NVNT BLE 2M 2440MHz Ant2



Peak Power NVNT BLE 2M 2480MHz Ant2

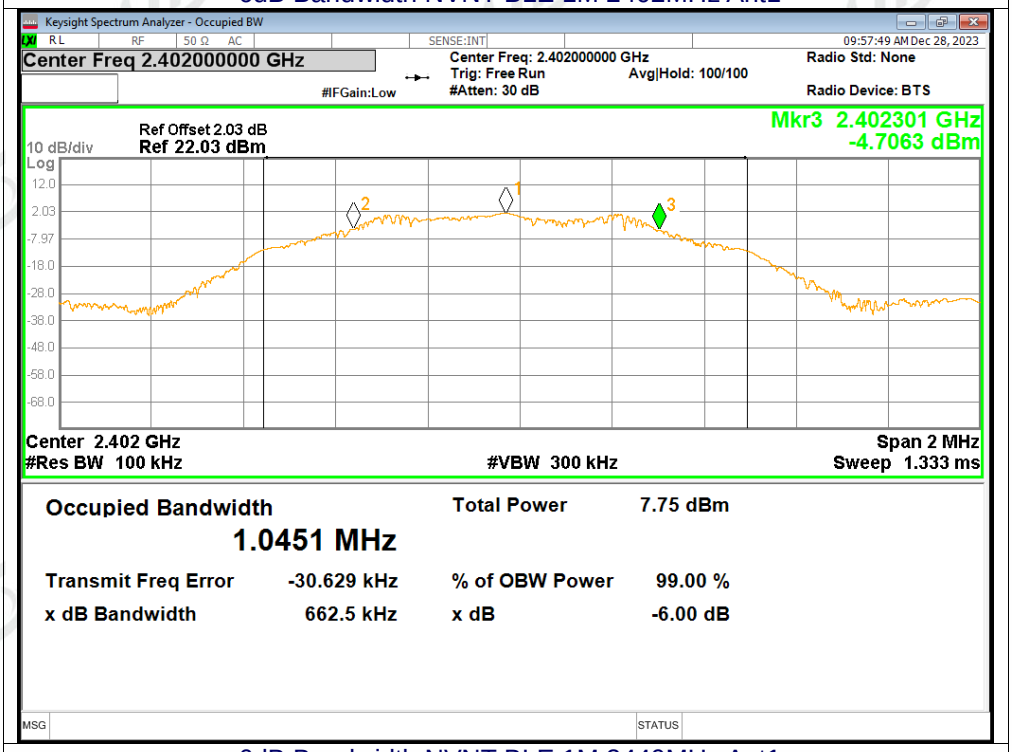


11.2 -6DB BANDWIDTH

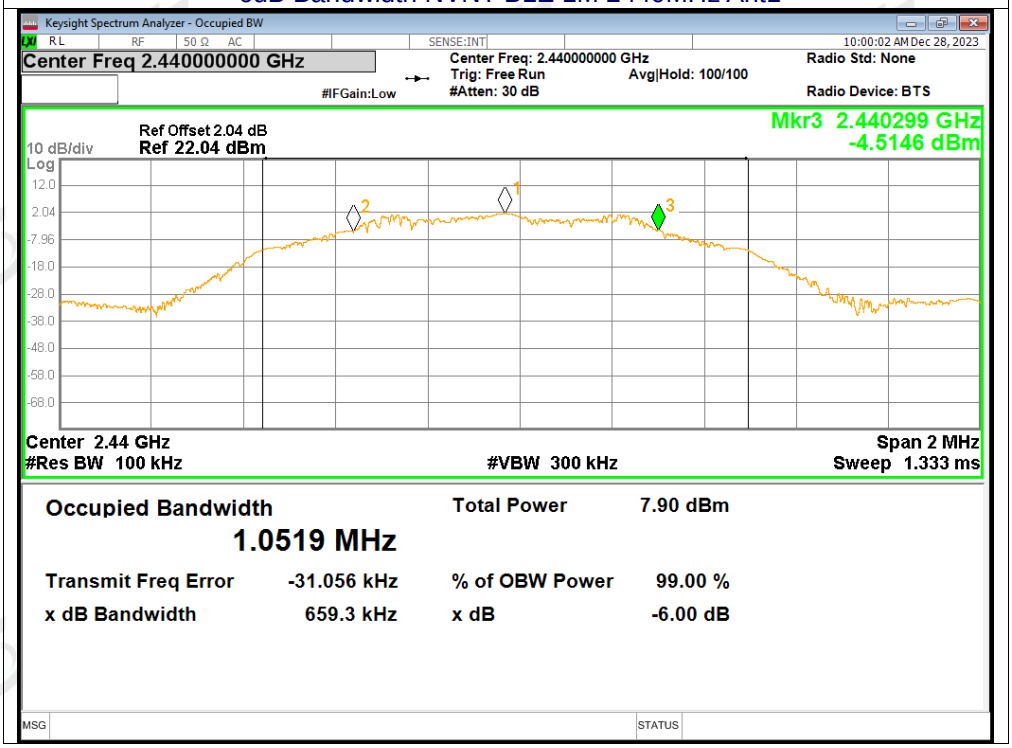
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	Ant1	0.662	0.5	Pass
BLE 1M	2440	Ant1	0.659	0.5	Pass
BLE 1M	2480	Ant1	0.663	0.5	Pass
BLE 1M	2402	Ant2	0.669	0.5	Pass
BLE 1M	2440	Ant2	0.673	0.5	Pass
BLE 1M	2480	Ant2	0.662	0.5	Pass
BLE 2M	2402	Ant1	1.118	0.5	Pass
BLE 2M	2440	Ant1	1.196	0.5	Pass
BLE 2M	2480	Ant1	1.07	0.5	Pass
BLE 2M	2402	Ant2	1.131	0.5	Pass
BLE 2M	2440	Ant2	1.114	0.5	Pass
BLE 2M	2480	Ant2	1.102	0.5	Pass

Test Graphs

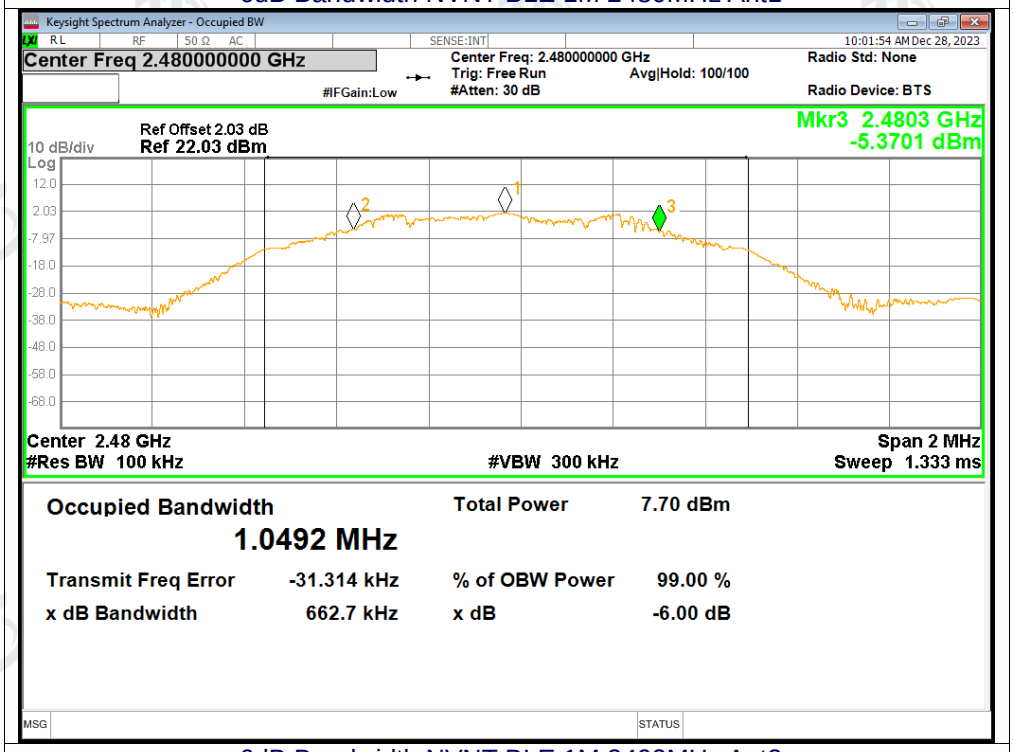
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



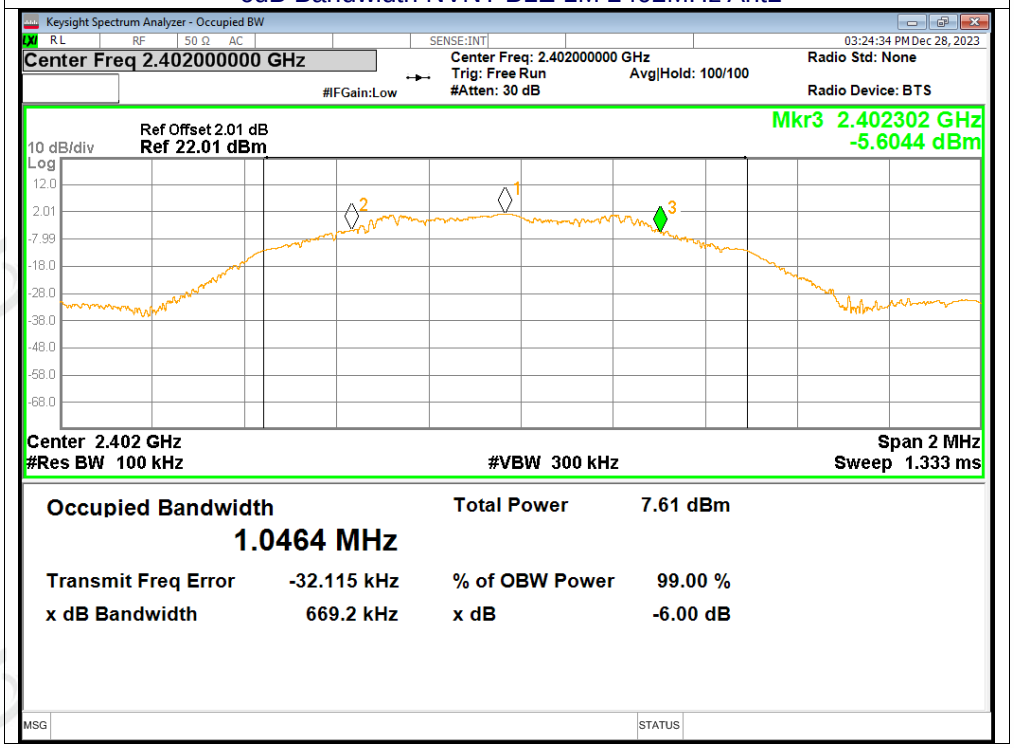
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



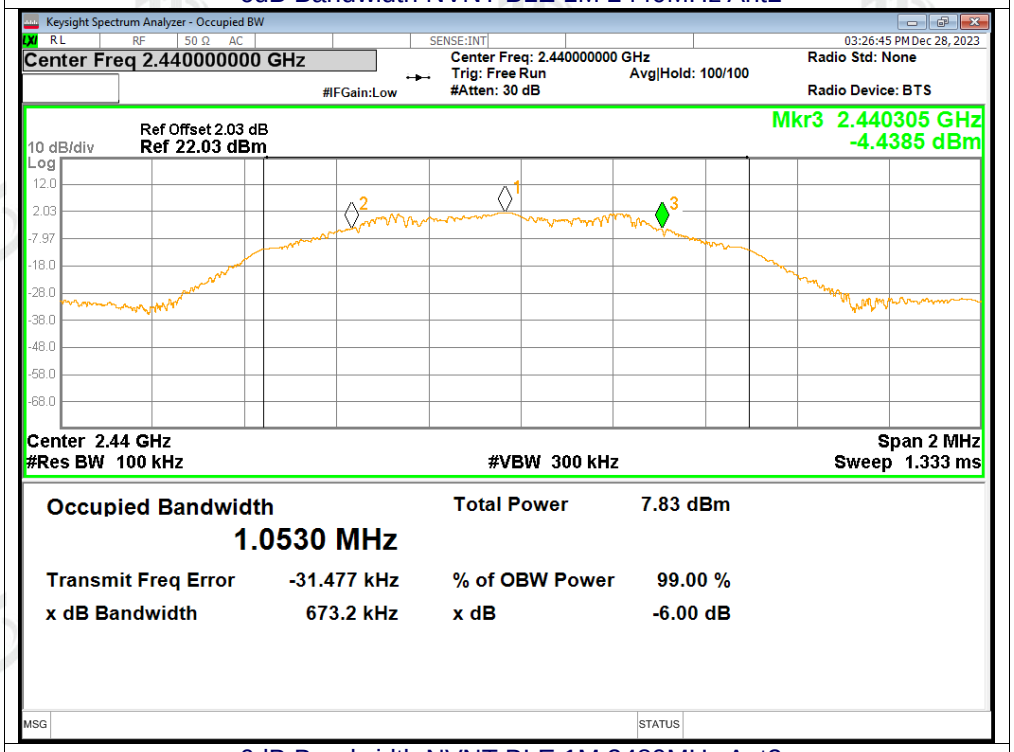
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



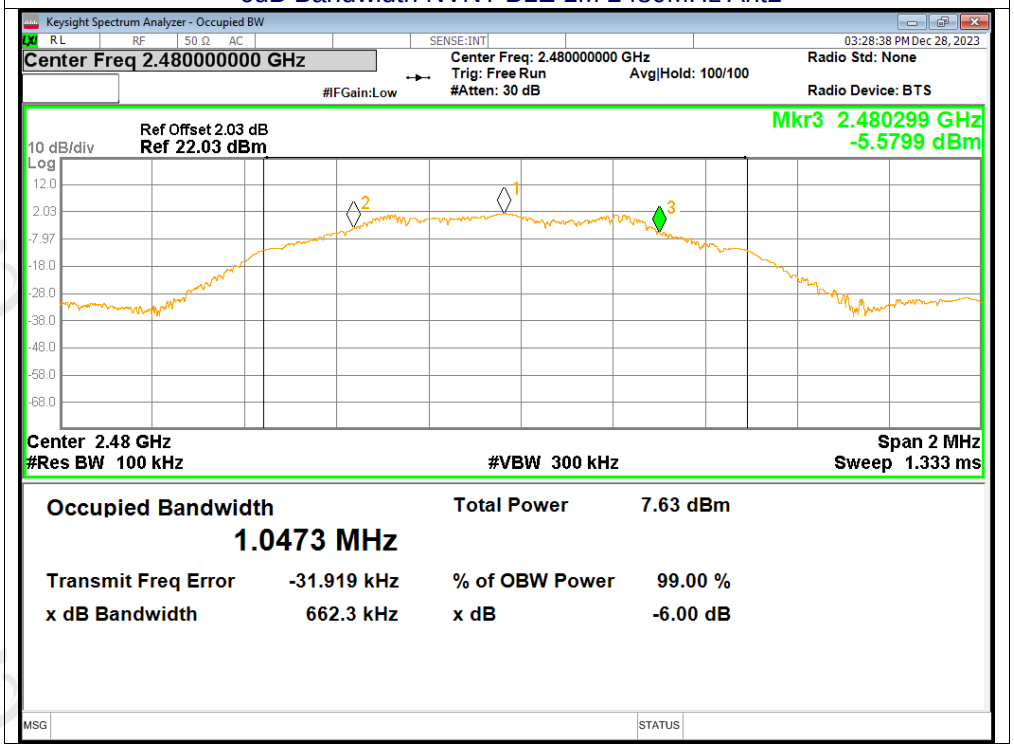
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant2



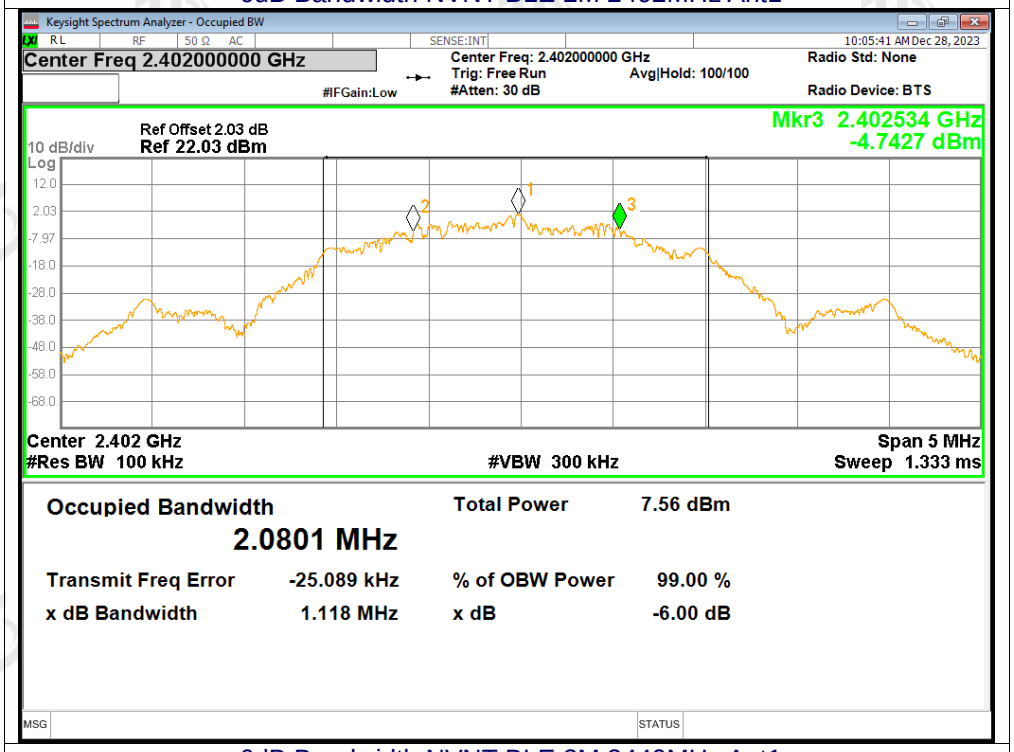
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant2



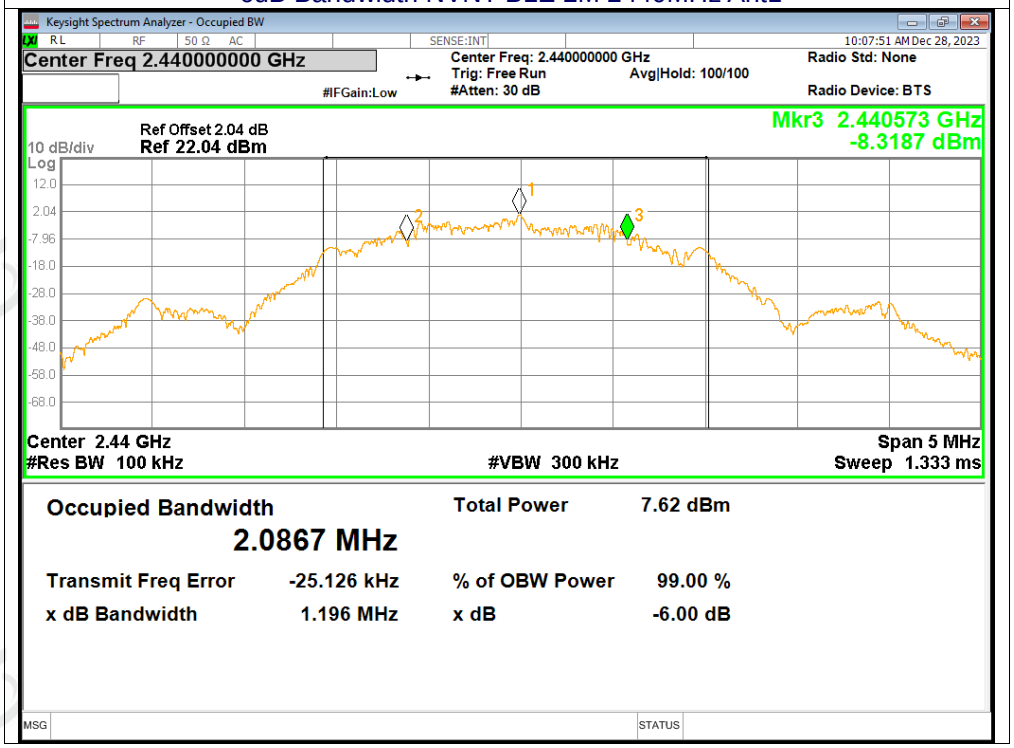
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant2



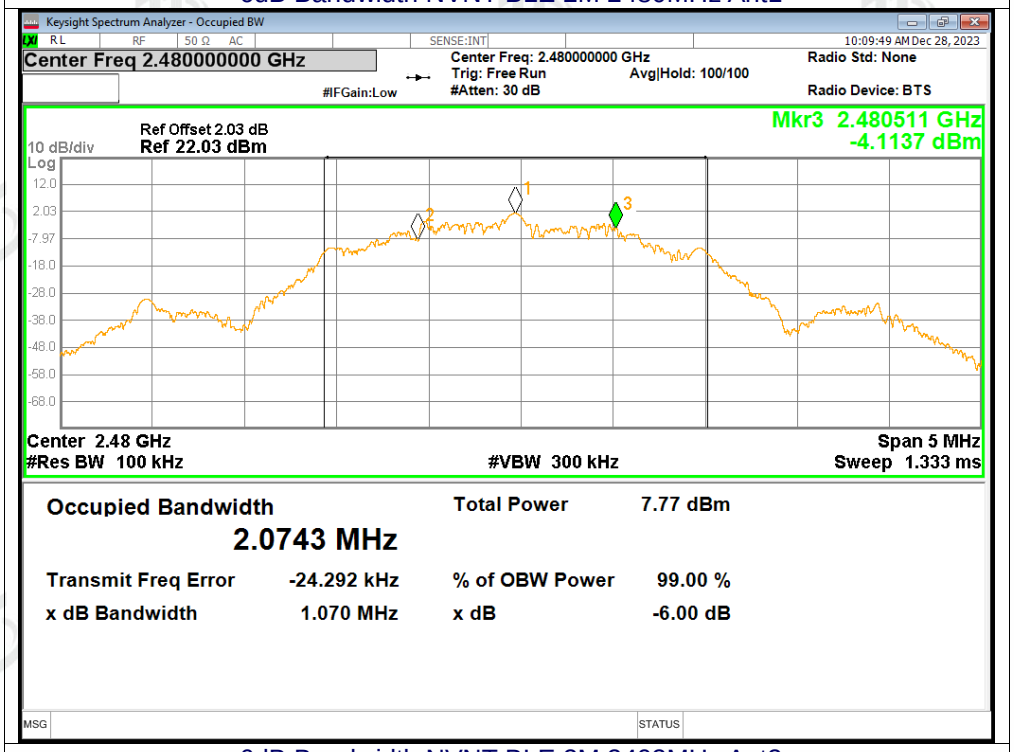
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



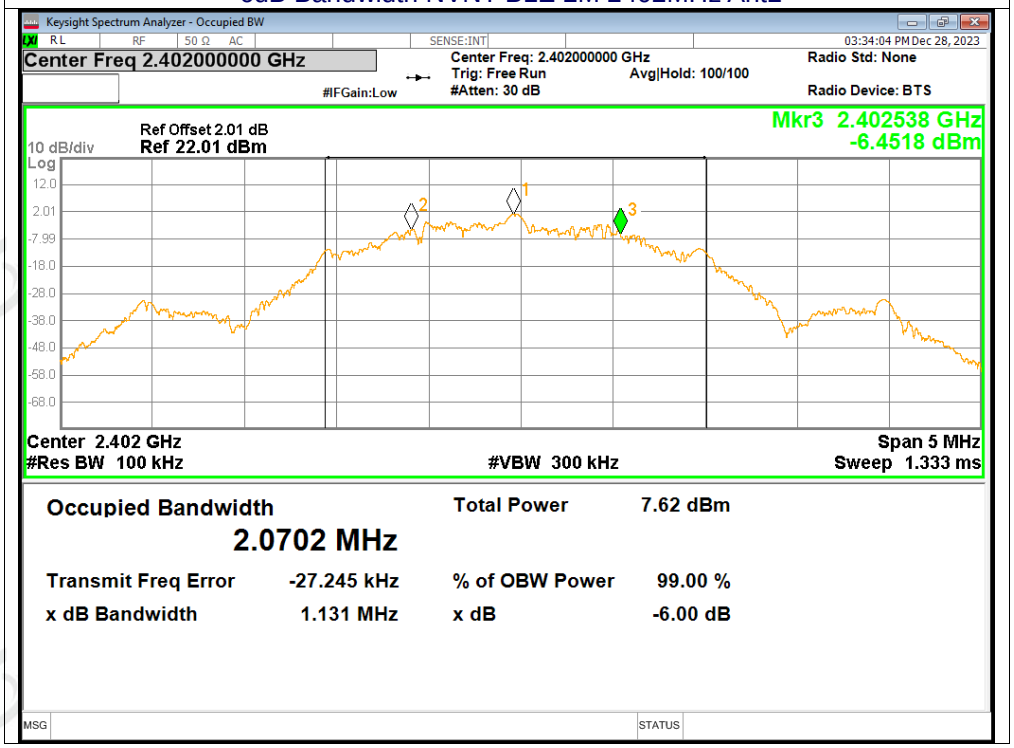
-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



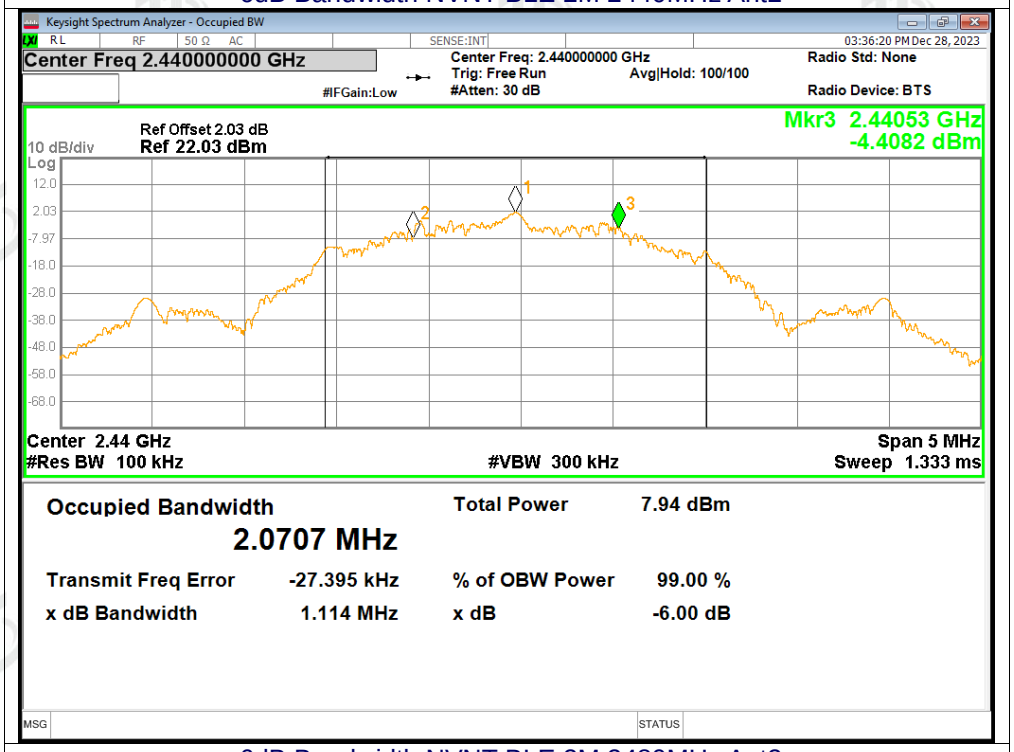
-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1



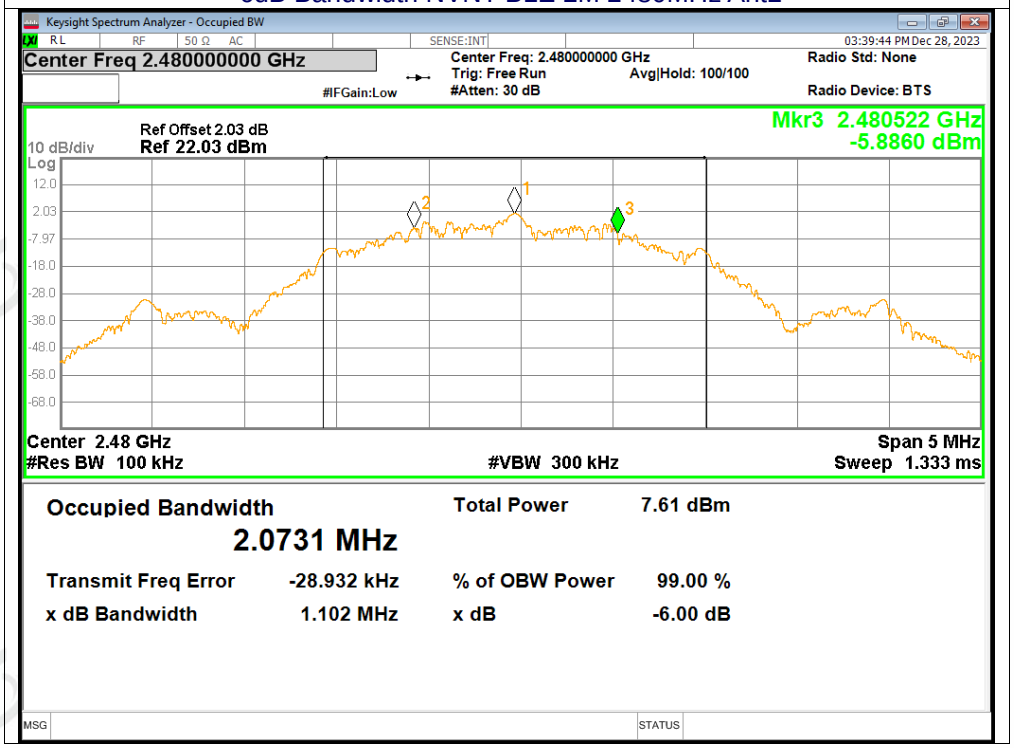
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant2



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant2



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant2

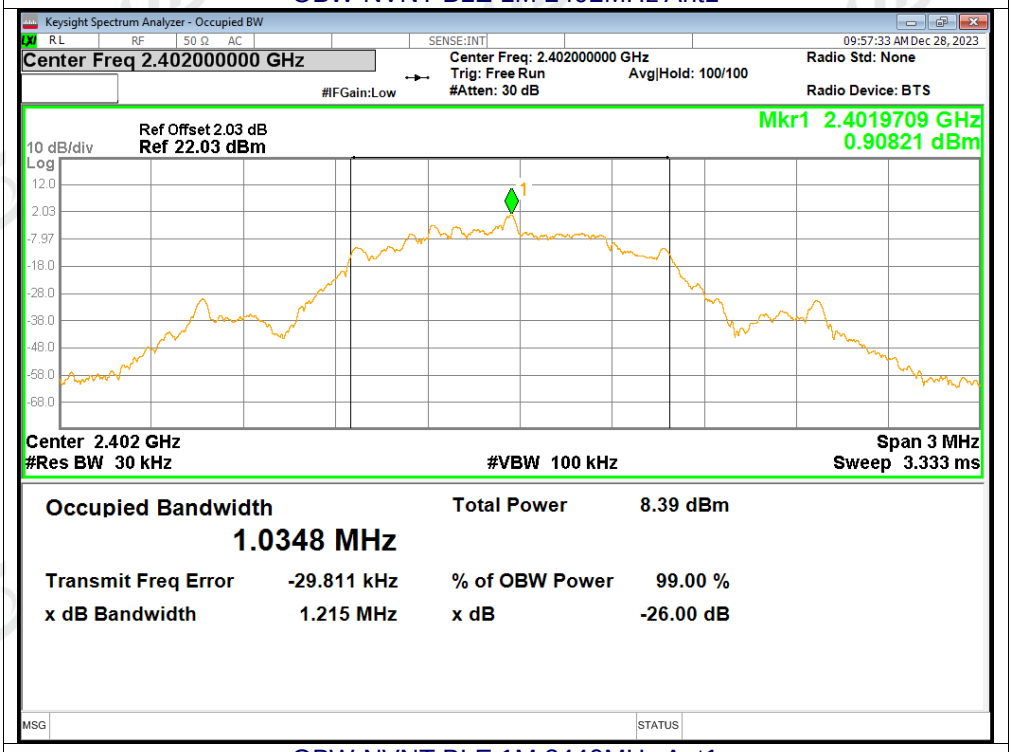


11.3 OCCUPIED CHANNEL BANDWIDTH

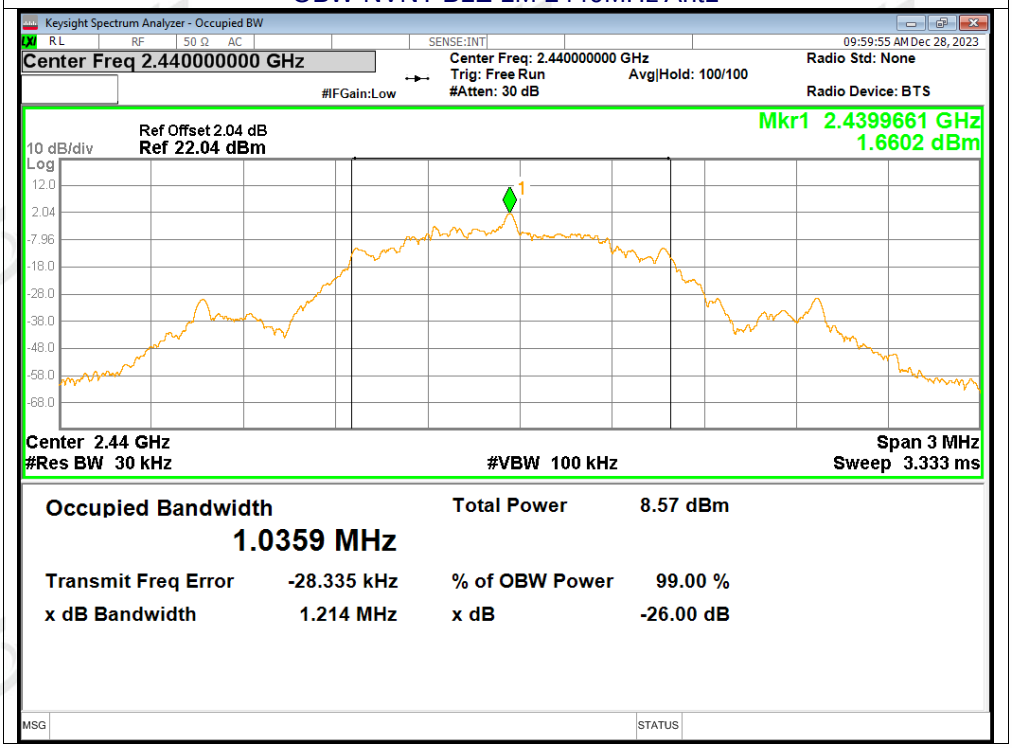
Mode	Antenna	Frequency (MHz)	99% OBW (MHz)
BLE 1M	Ant1	2402	1.035
BLE 1M	Ant1	2440	1.036
BLE 1M	Ant1	2480	1.037
BLE 1M	Ant2	2402	1.033
BLE 1M	Ant2	2440	1.027
BLE 1M	Ant2	2480	1.038
BLE 2M	Ant1	2402	2.053
BLE 2M	Ant1	2440	2.06
BLE 2M	Ant1	2480	2.072
BLE 2M	Ant2	2402	2.053
BLE 2M	Ant2	2440	2.065
BLE 2M	Ant2	2480	2.067

Test Graphs

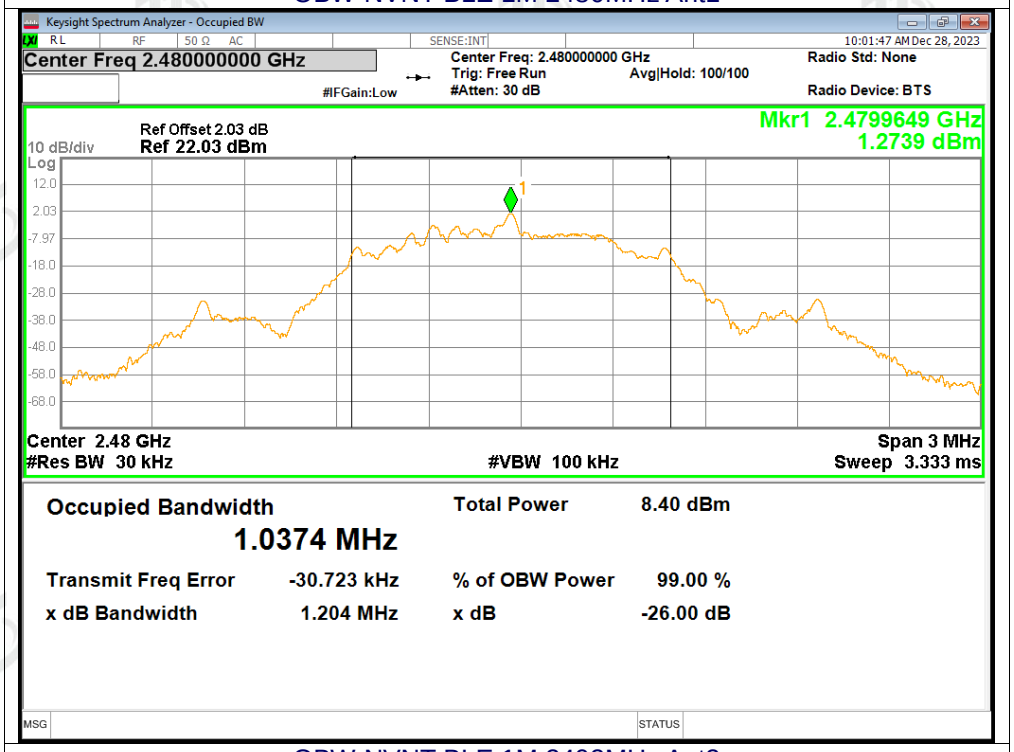
OBW NVNT BLE 1M 2402MHz Ant1



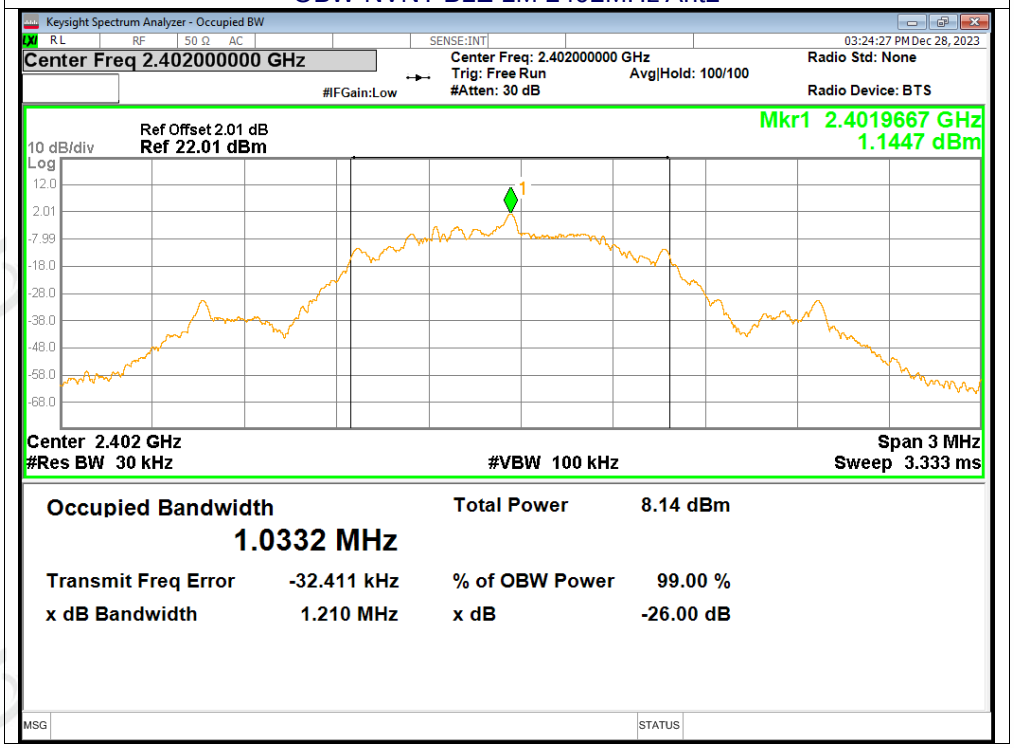
OBW NVNT BLE 1M 2440MHz Ant1



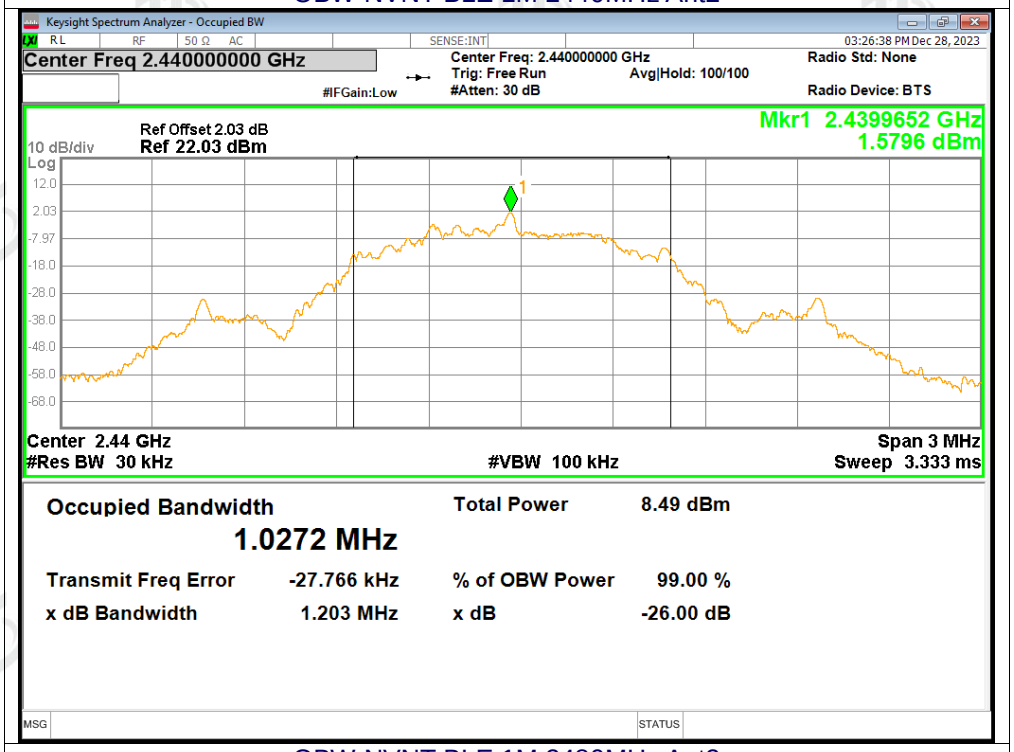
OBW NVNT BLE 1M 2480MHz Ant1



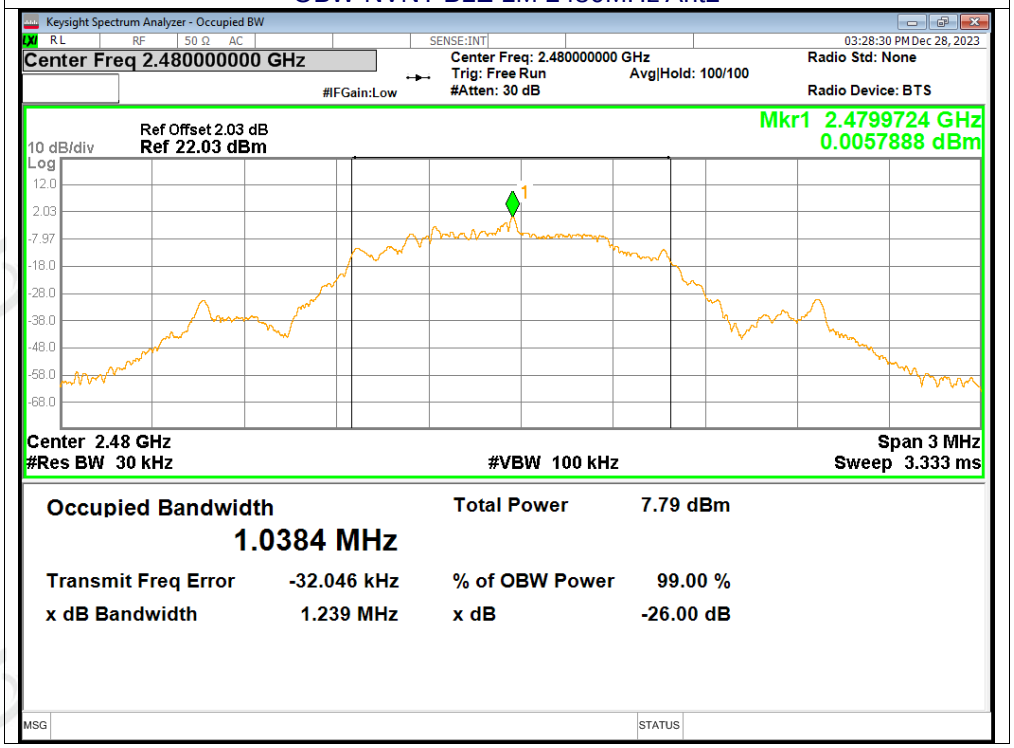
OBW NVNT BLE 1M 2402MHz Ant2



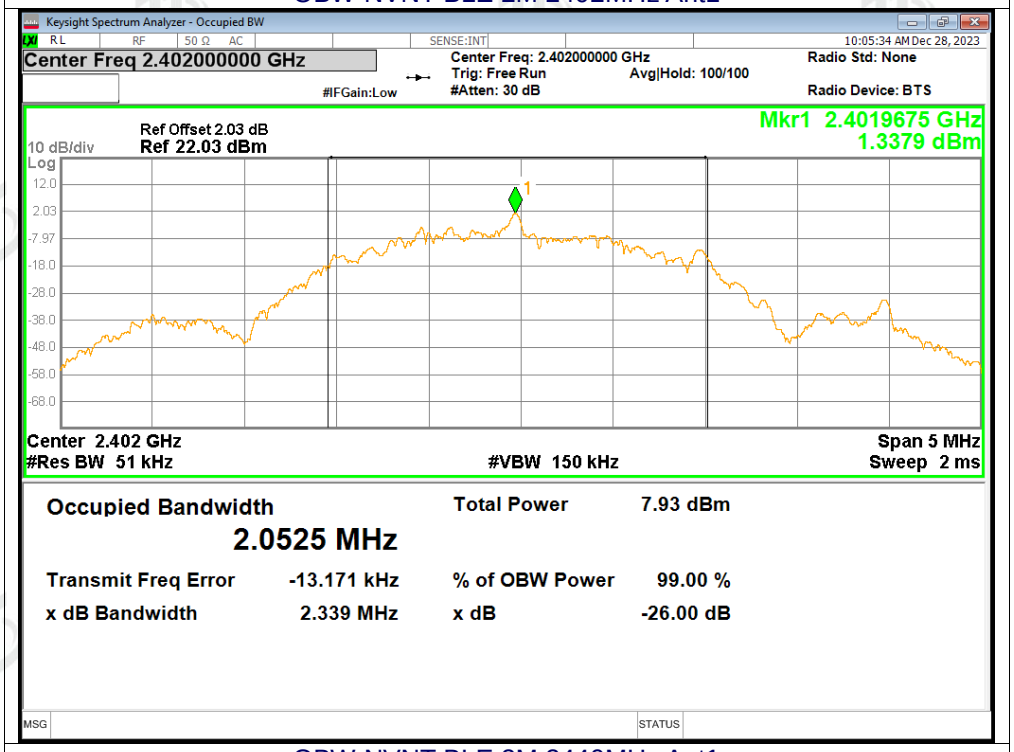
OBW NVNT BLE 1M 2440MHz Ant2



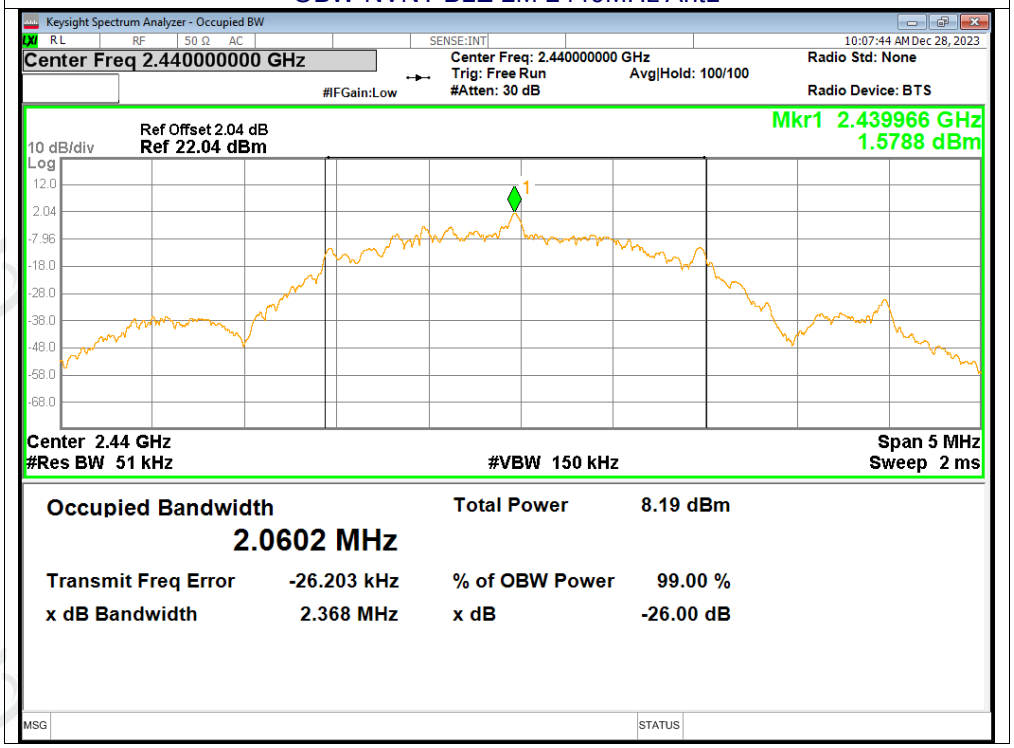
OBW NVNT BLE 1M 2480MHz Ant2



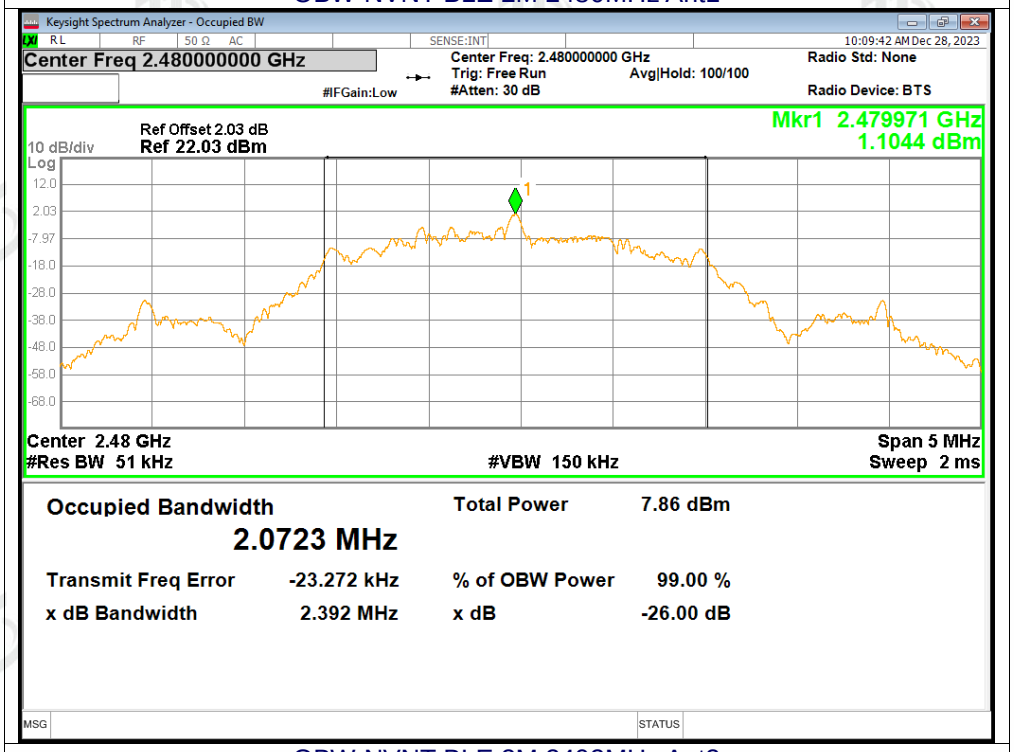
OBW NVNT BLE 2M 2402MHz Ant1



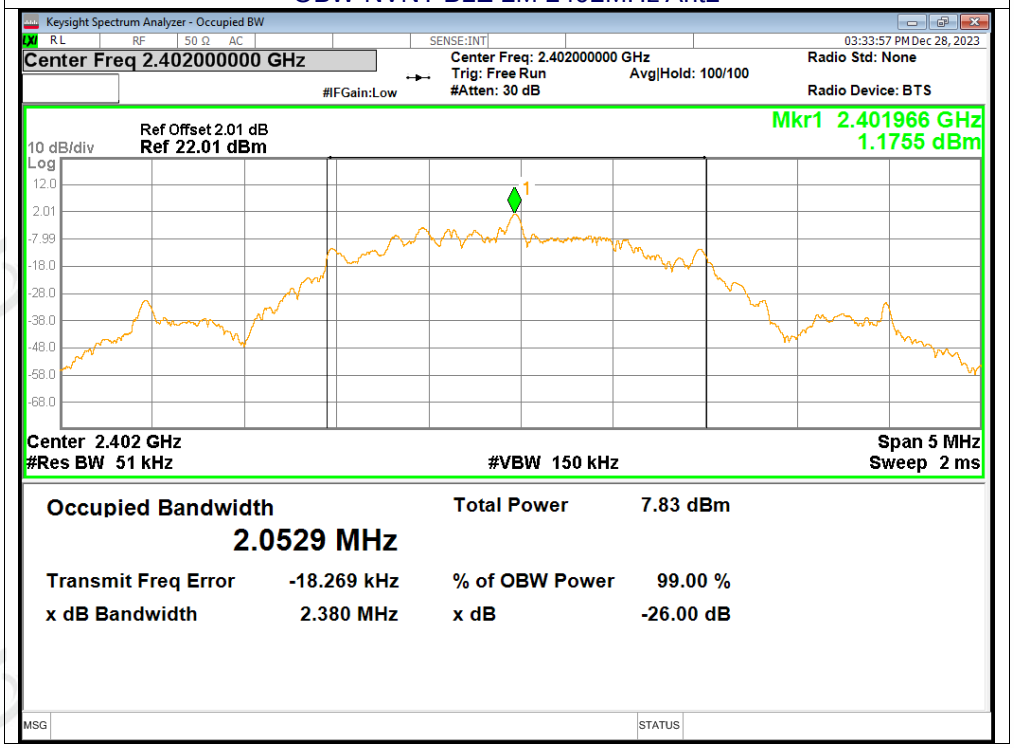
OBW NVNT BLE 2M 2440MHz Ant1



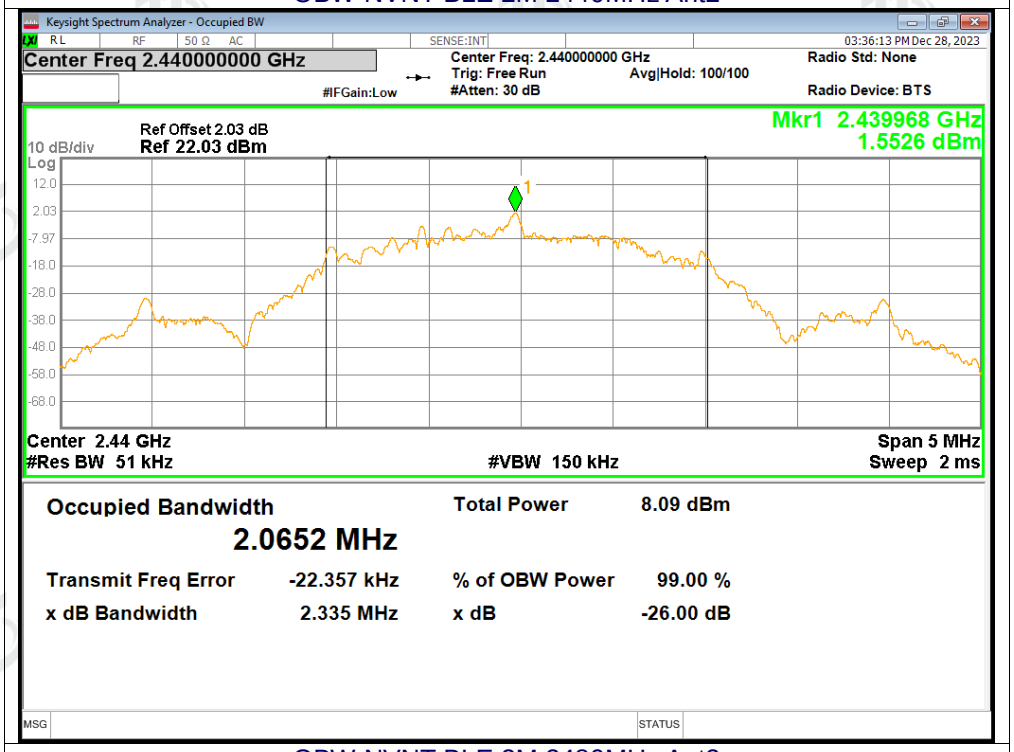
OBW NVNT BLE 2M 2480MHz Ant1



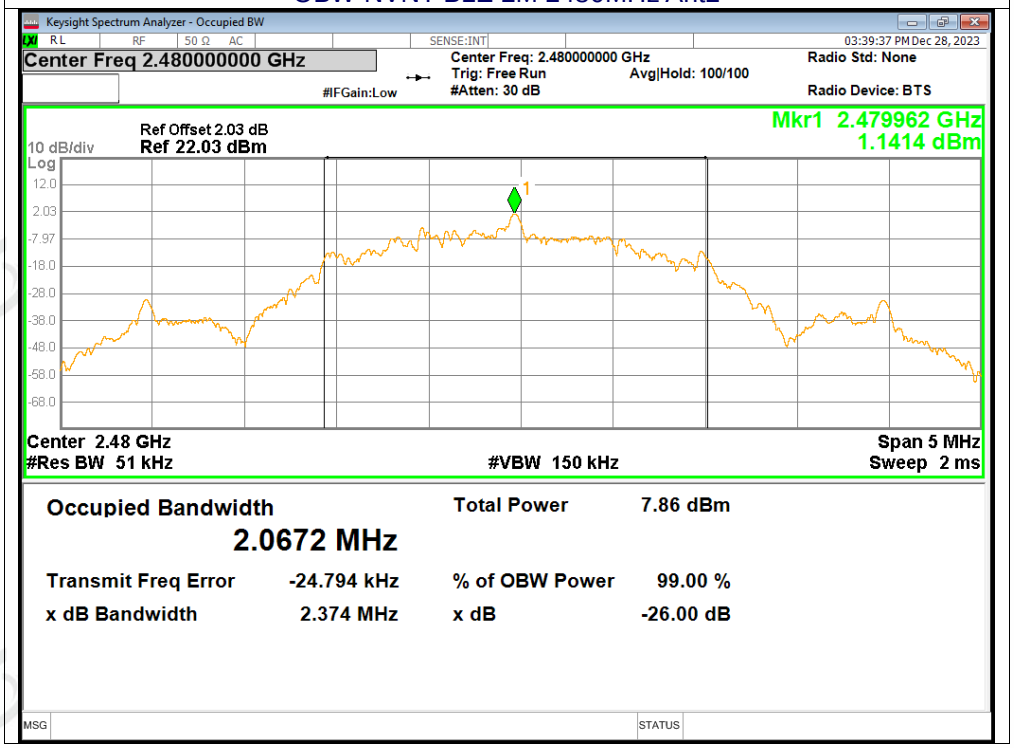
OBW NVNT BLE 2M 2402MHz Ant2



OBW NVNT BLE 2M 2440MHz Ant2



OBW NVNT BLE 2M 2480MHz Ant2

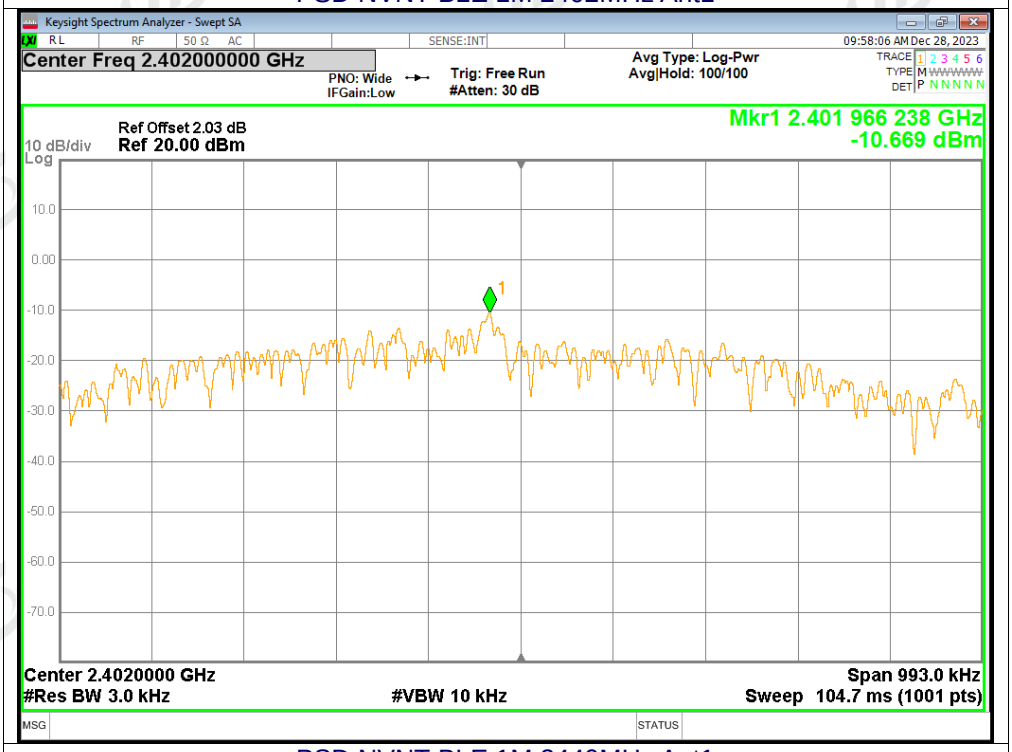


11.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

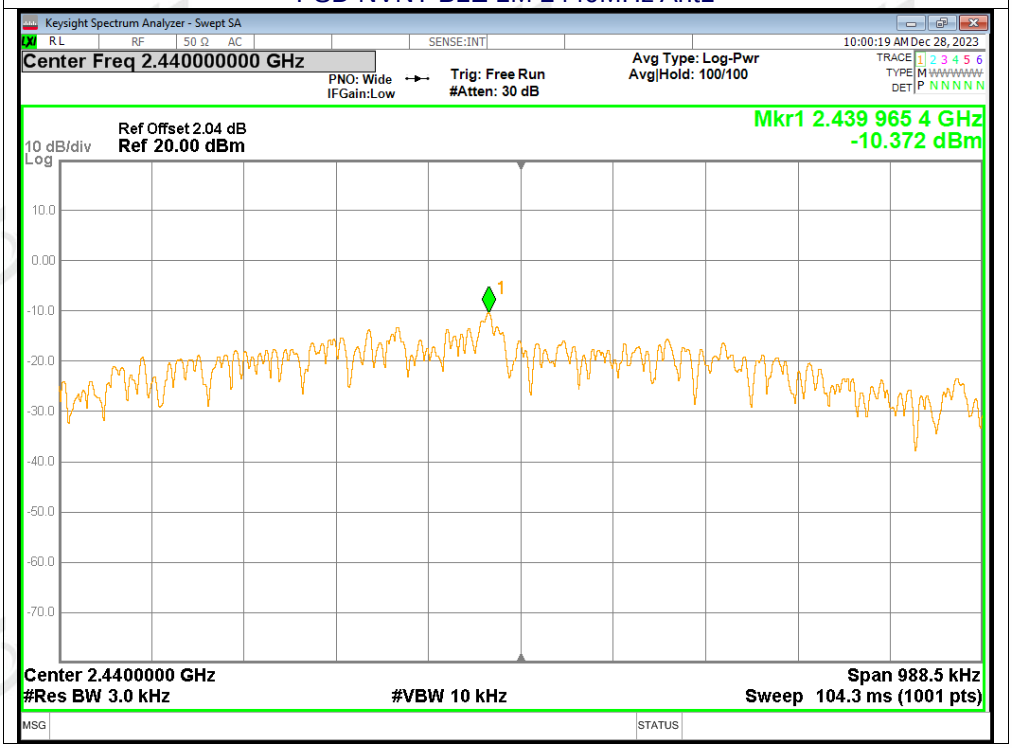
Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	Ant1	-10.67	8	Pass
BLE 1M	2440	Ant1	-10.37	8	Pass
BLE 1M	2480	Ant1	-10.65	8	Pass
BLE 1M	2402	Ant2	-10.81	8	Pass
BLE 1M	2440	Ant2	-10.46	8	Pass
BLE 1M	2480	Ant2	-10.74	8	Pass
BLE 2M	2402	Ant1	-14.88	8	Pass
BLE 2M	2440	Ant1	-14.69	8	Pass
BLE 2M	2480	Ant1	-14.97	8	Pass
BLE 2M	2402	Ant2	-15.01	8	Pass
BLE 2M	2440	Ant2	-14.64	8	Pass
BLE 2M	2480	Ant2	-15.01	8	Pass

Test Graphs

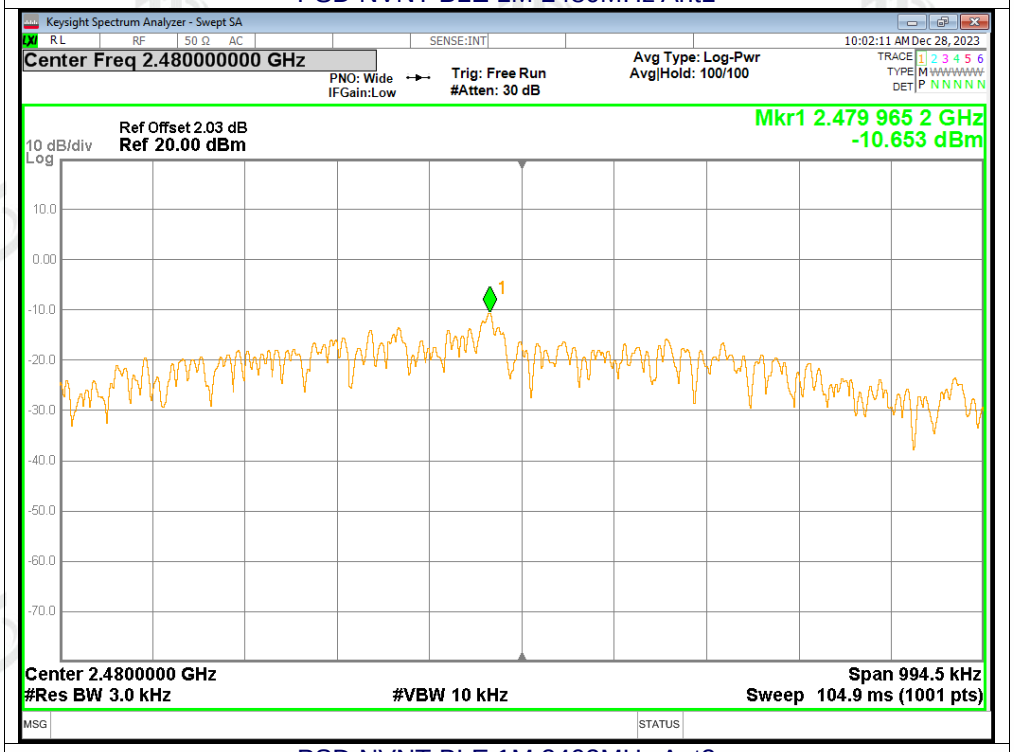
PSD NVNT BLE 1M 2402MHz Ant1



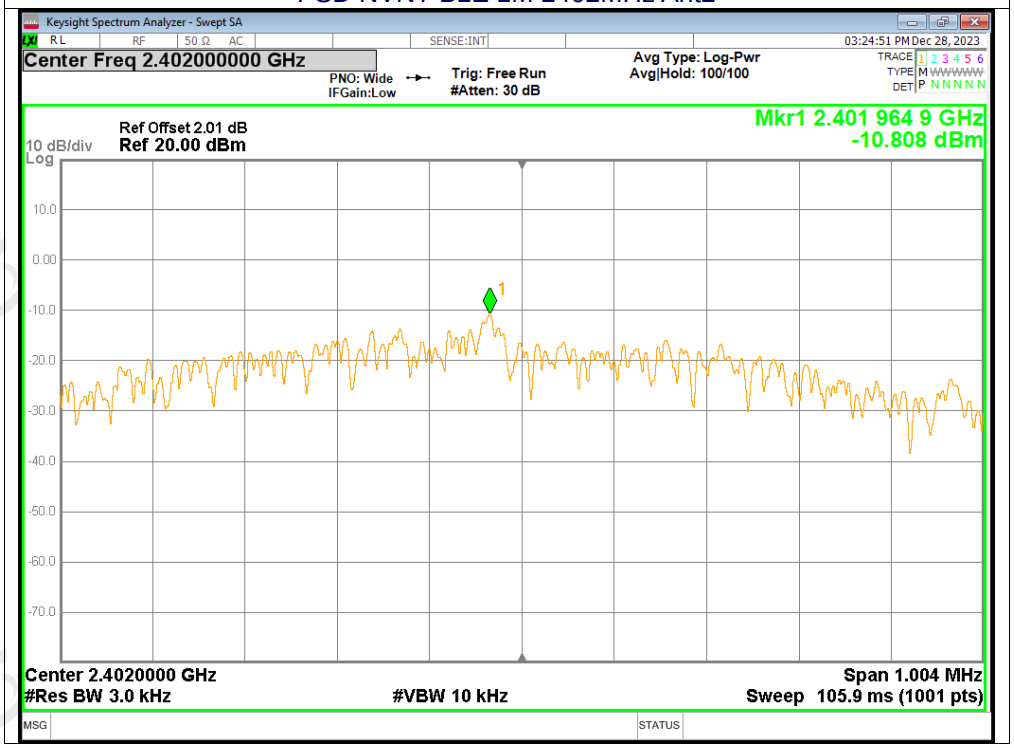
PSD NVNT BLE 1M 2440MHz Ant1



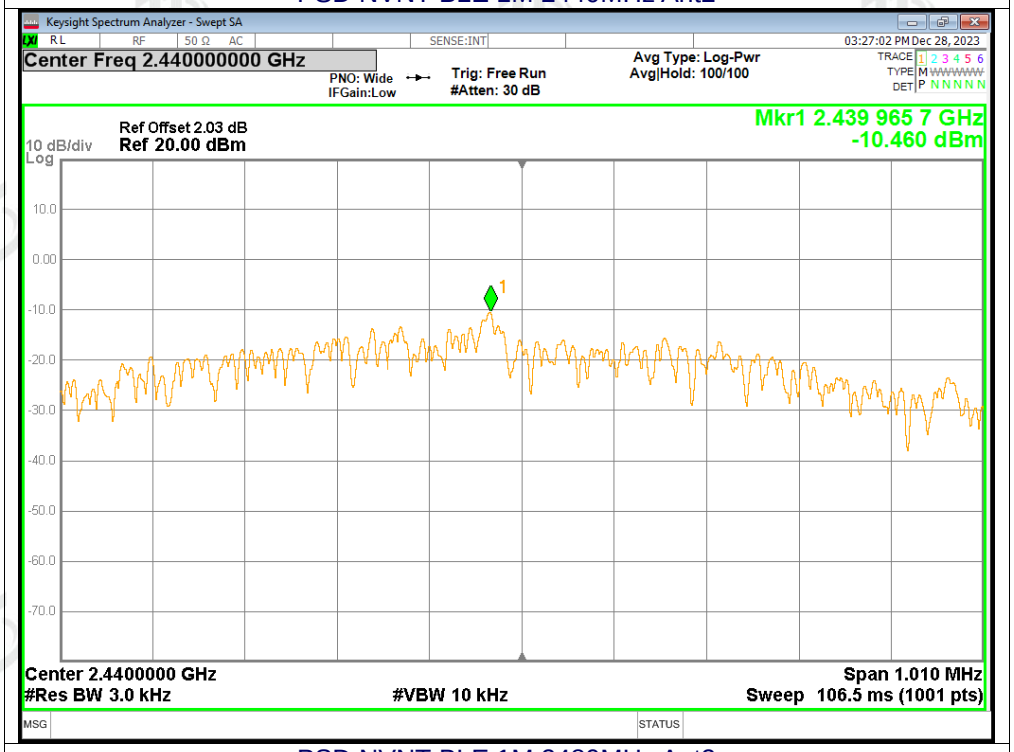
PSD NVNT BLE 1M 2480MHz Ant1



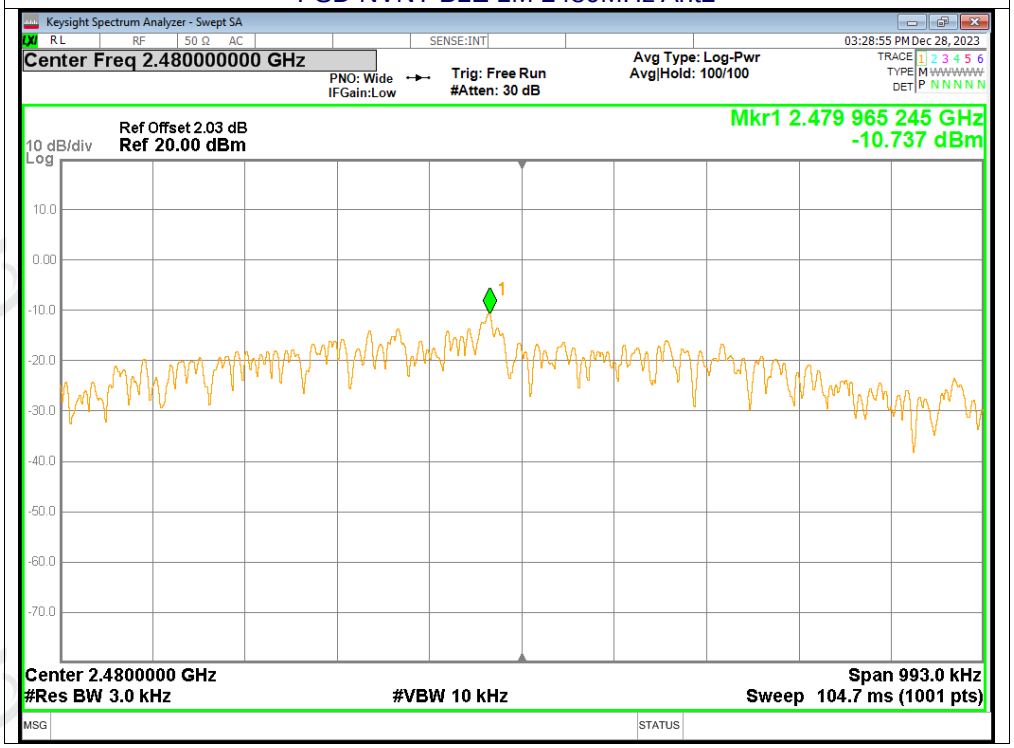
PSD NVNT BLE 1M 2402MHz Ant2



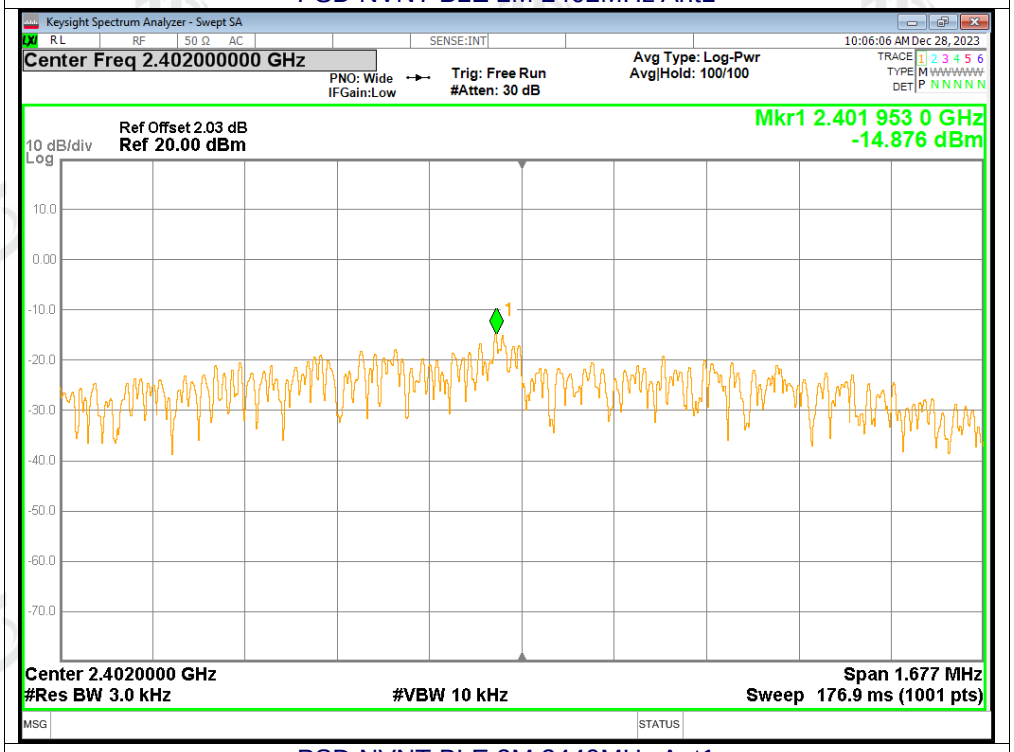
PSD NVNT BLE 1M 2440MHz Ant2



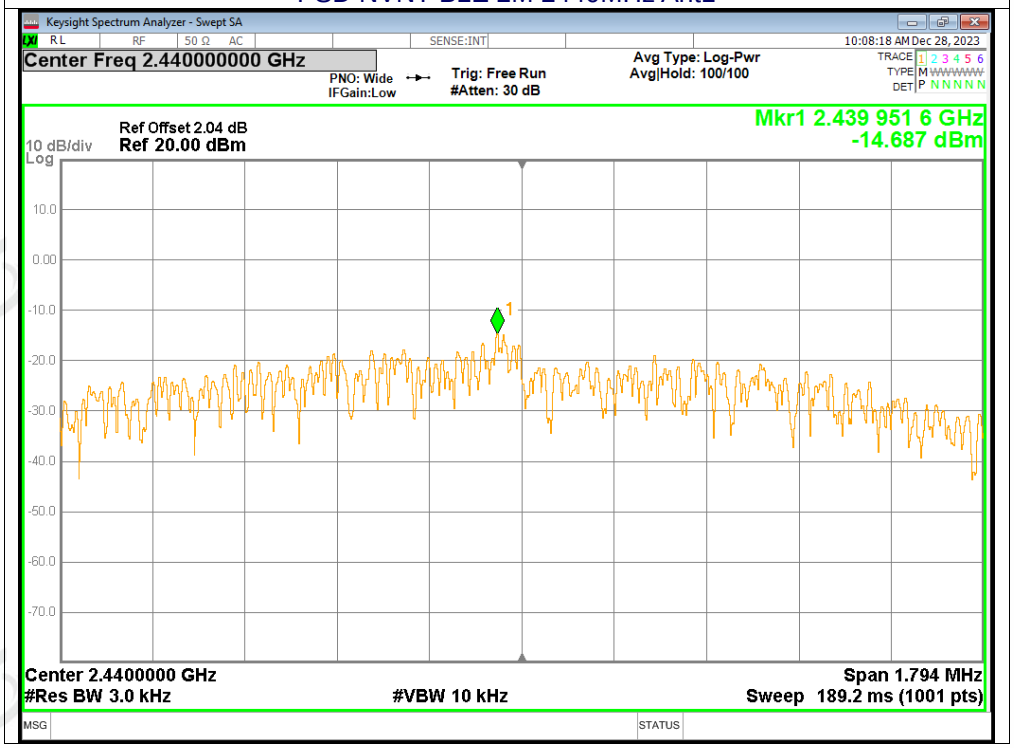
PSD NVNT BLE 1M 2480MHz Ant2



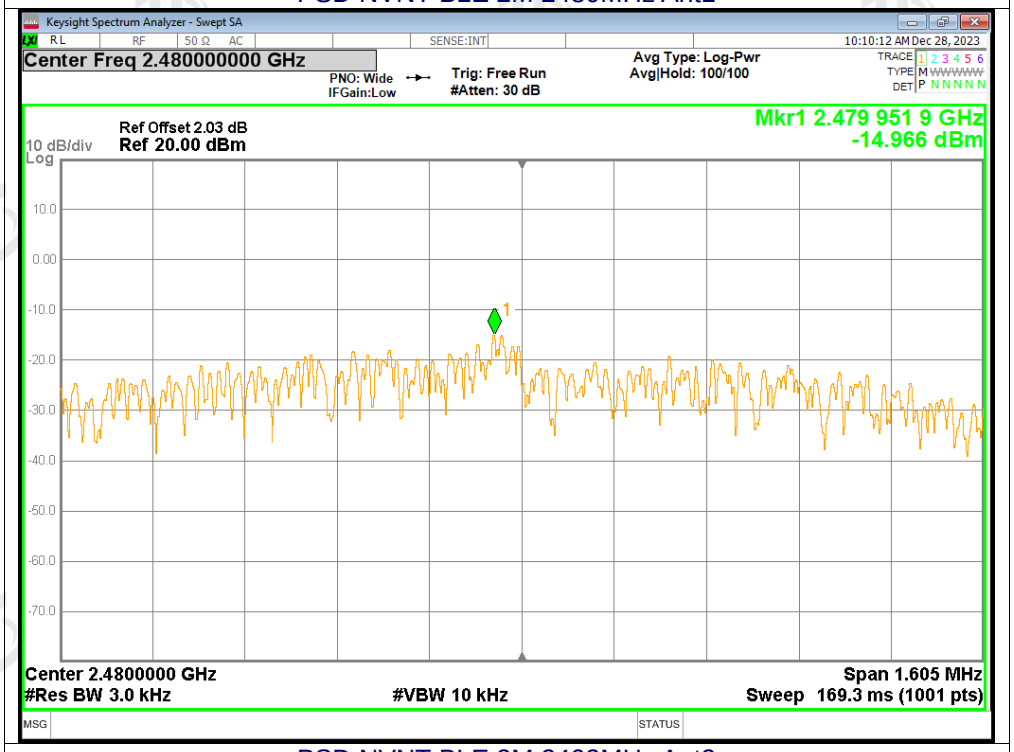
PSD NVNT BLE 2M 2402MHz Ant1



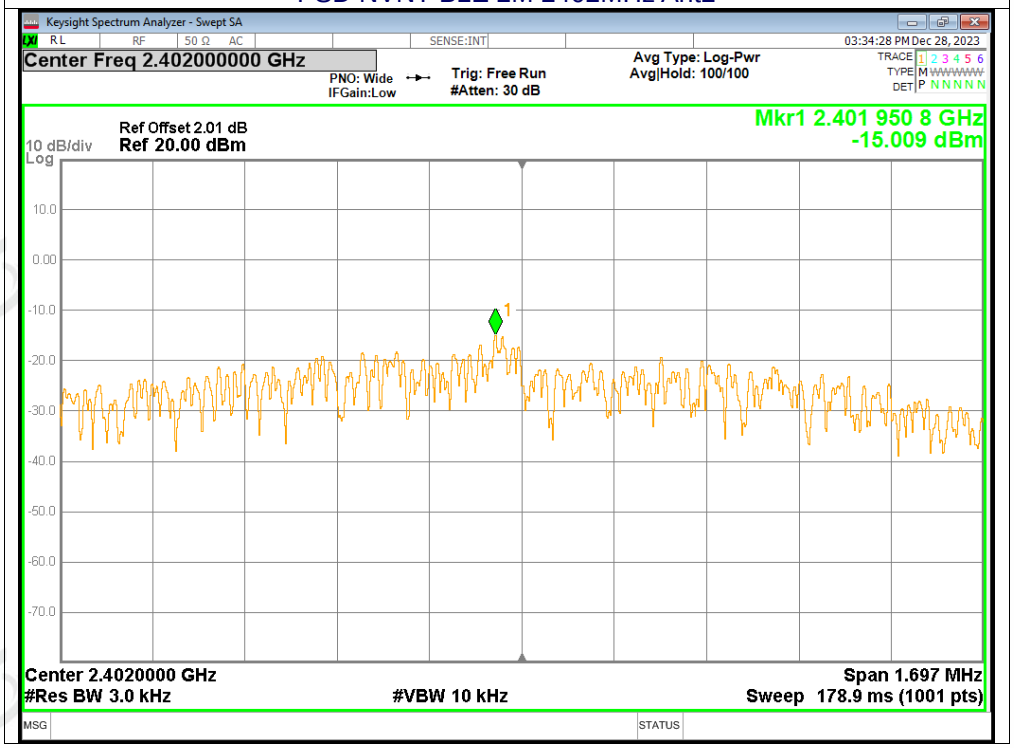
PSD NVNT BLE 2M 2440MHz Ant1



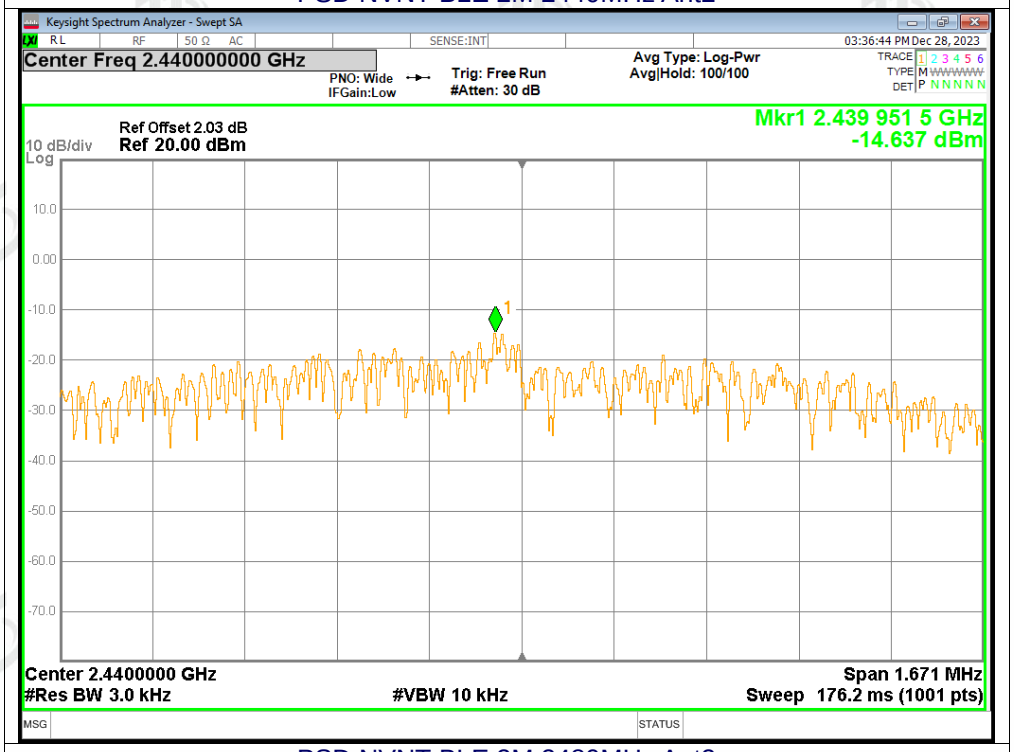
PSD NVNT BLE 2M 2480MHz Ant1



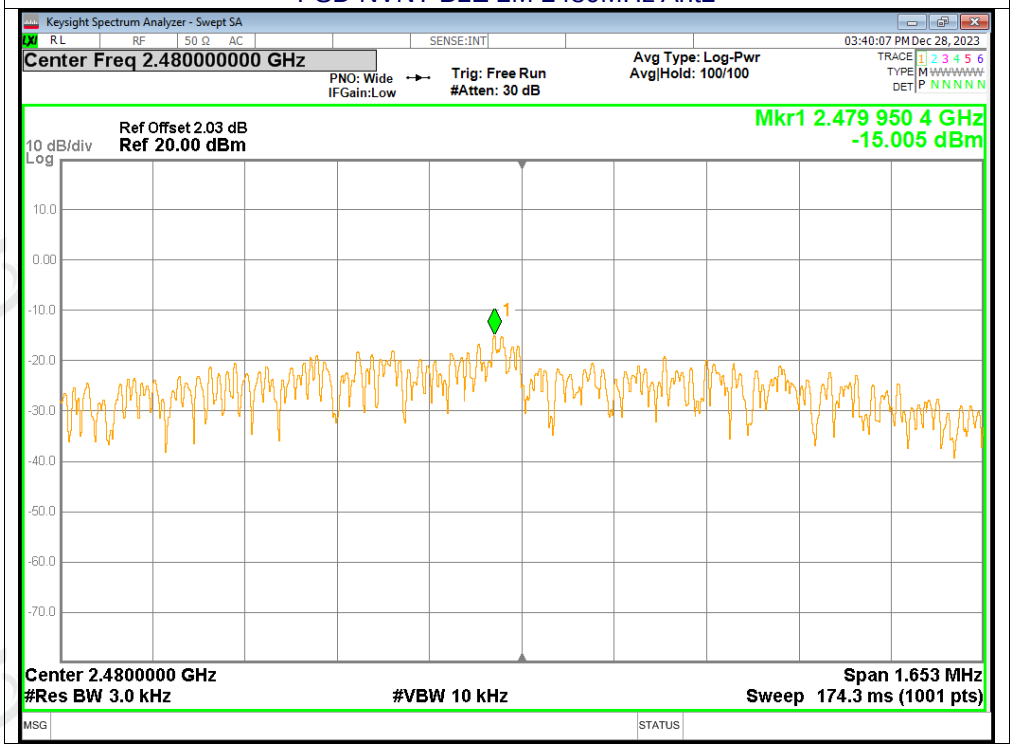
PSD NVNT BLE 2M 2402MHz Ant2



PSD NVNT BLE 2M 2440MHz Ant2



PSD NVNT BLE 2M 2480MHz Ant2

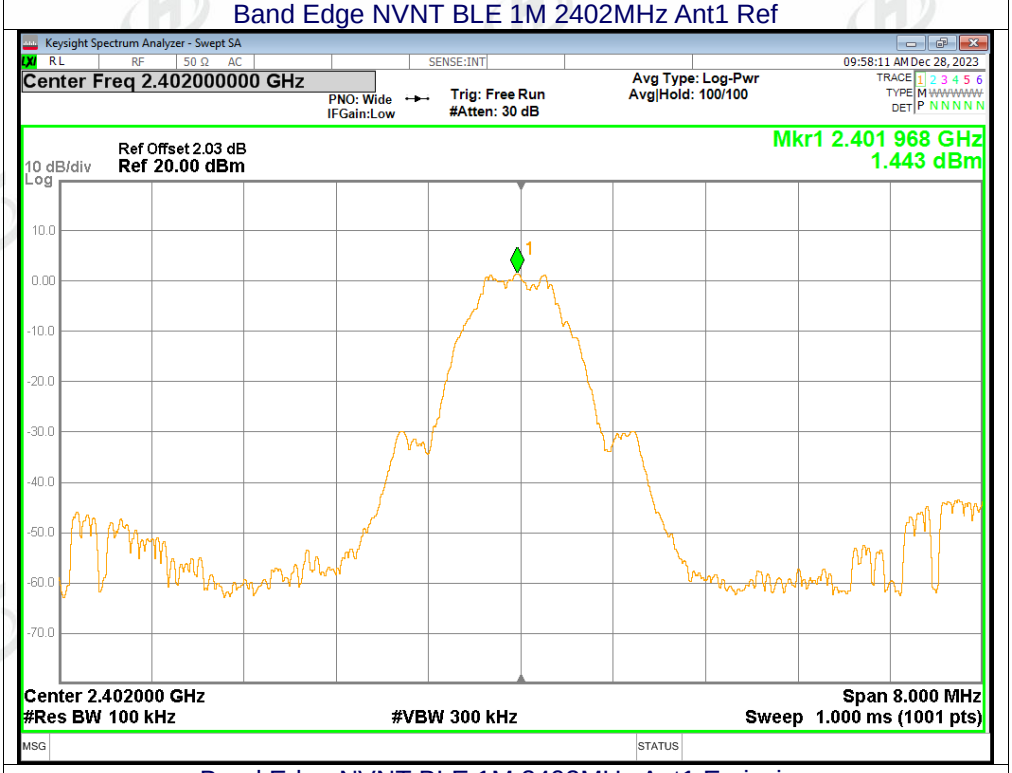


11.5 BAND EDGE

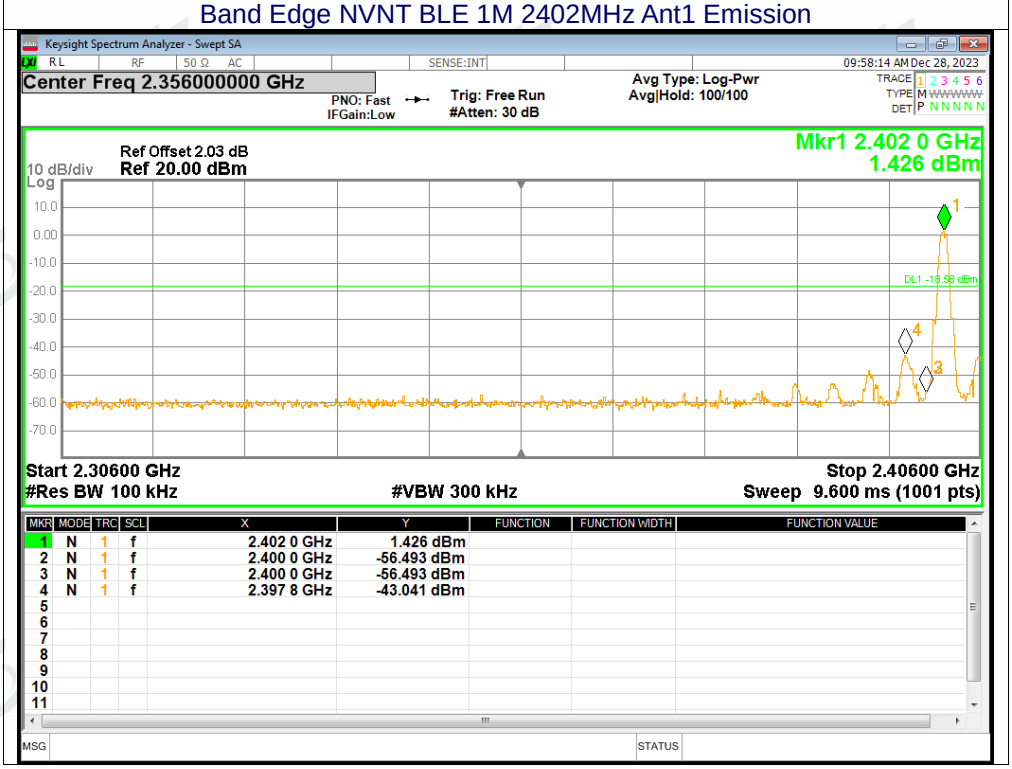
Mode	Antenna	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	Ant1	2402	-44.48	-20	Pass
BLE 1M	Ant1	2480	-44.39	-20	Pass
BLE 1M	Ant2	2402	-45.36	-20	Pass
BLE 1M	Ant2	2480	-45.85	-20	Pass
BLE 2M	Ant1	2402	-31.66	-20	Pass
BLE 2M	Ant1	2480	-45.52	-20	Pass
BLE 2M	Ant2	2402	-31.52	-20	Pass
BLE 2M	Ant2	2480	-45.16	-20	Pass

Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

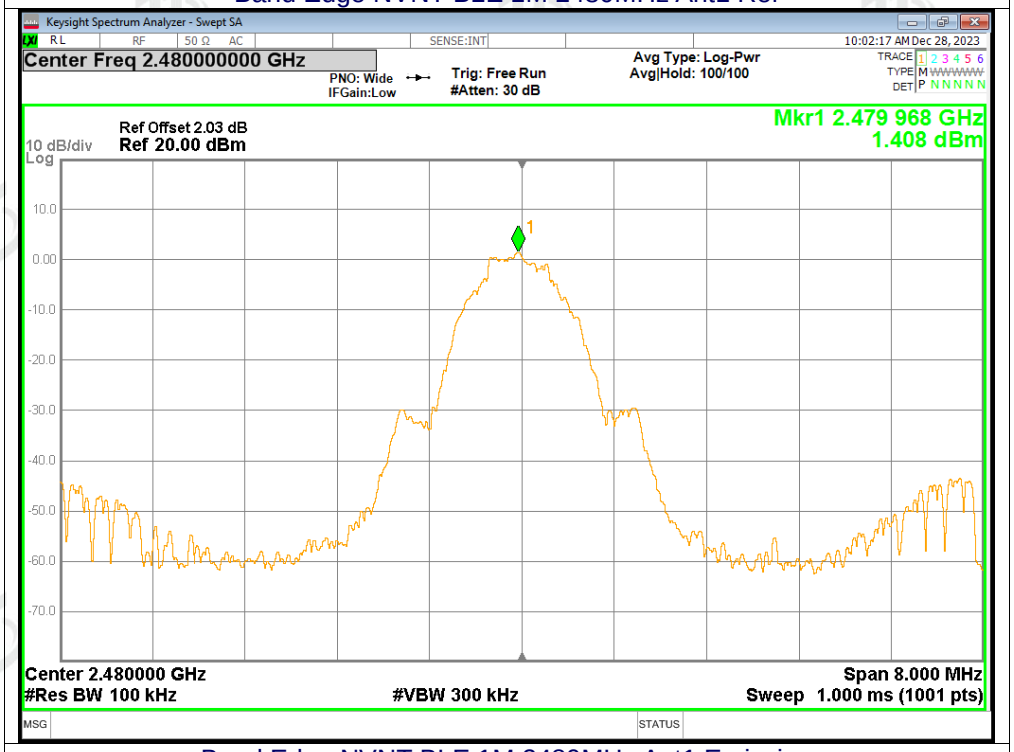


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

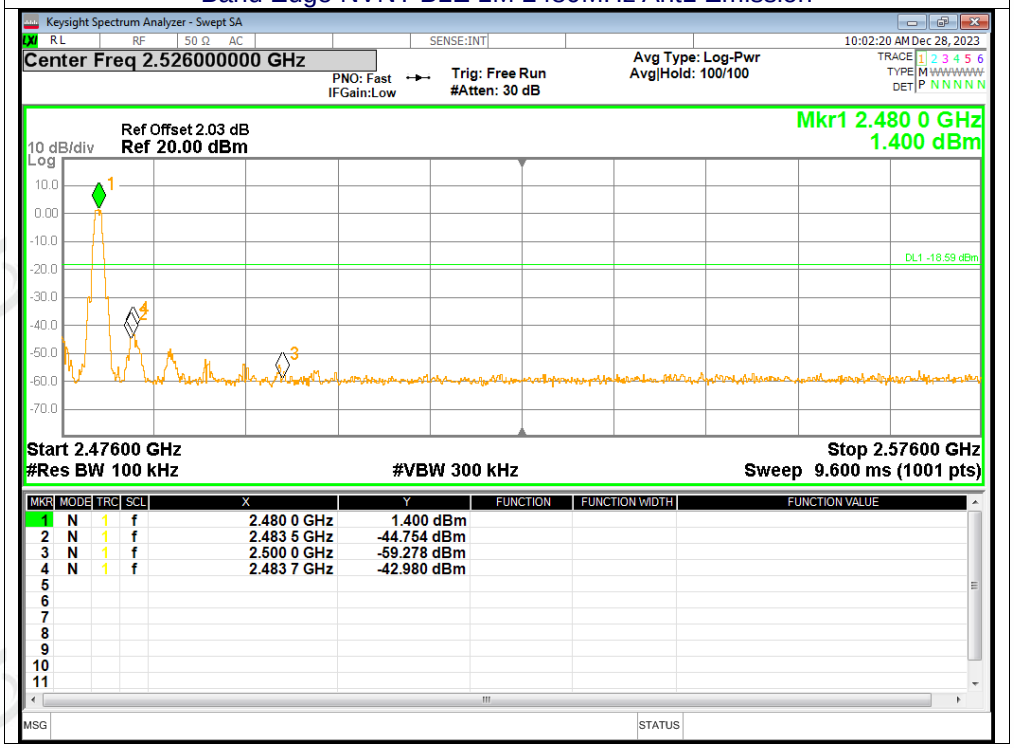


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 0 GHz	1.426 dBm			
2	N	1	f	2.400 0 GHz	-56.493 dBm			
3	N	1	f	2.400 0 GHz	-56.493 dBm			
4	N	1	f	2.397 8 GHz	-43.041 dBm			
5								
6								
7								
8								
9								
10								
11								

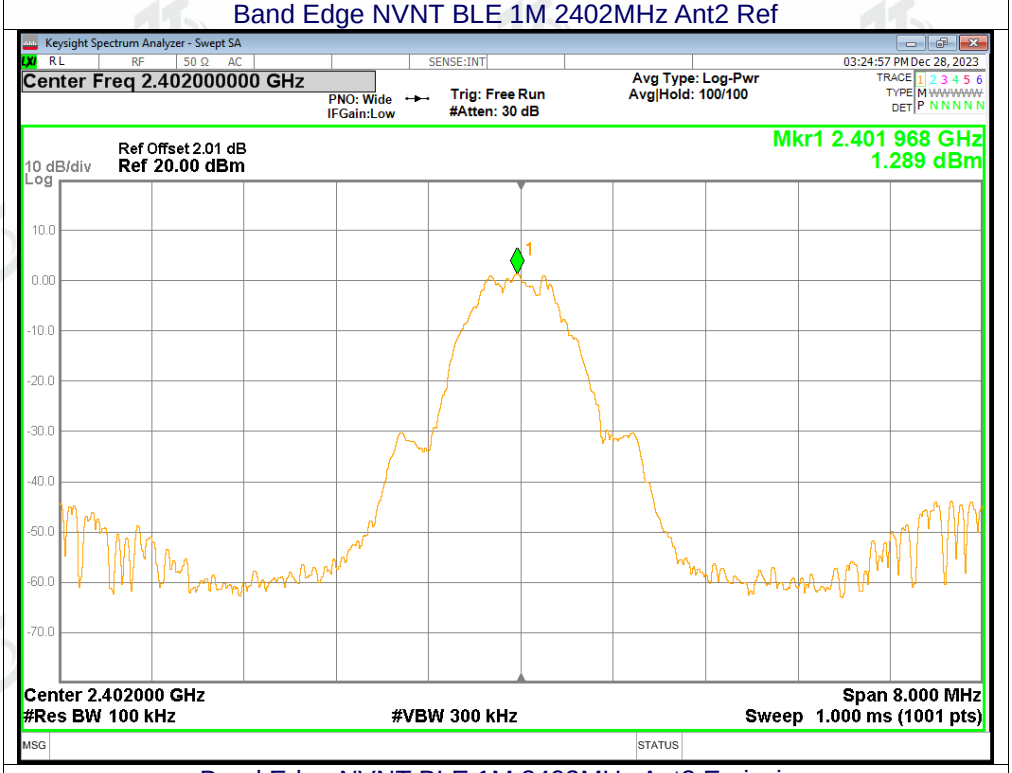
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



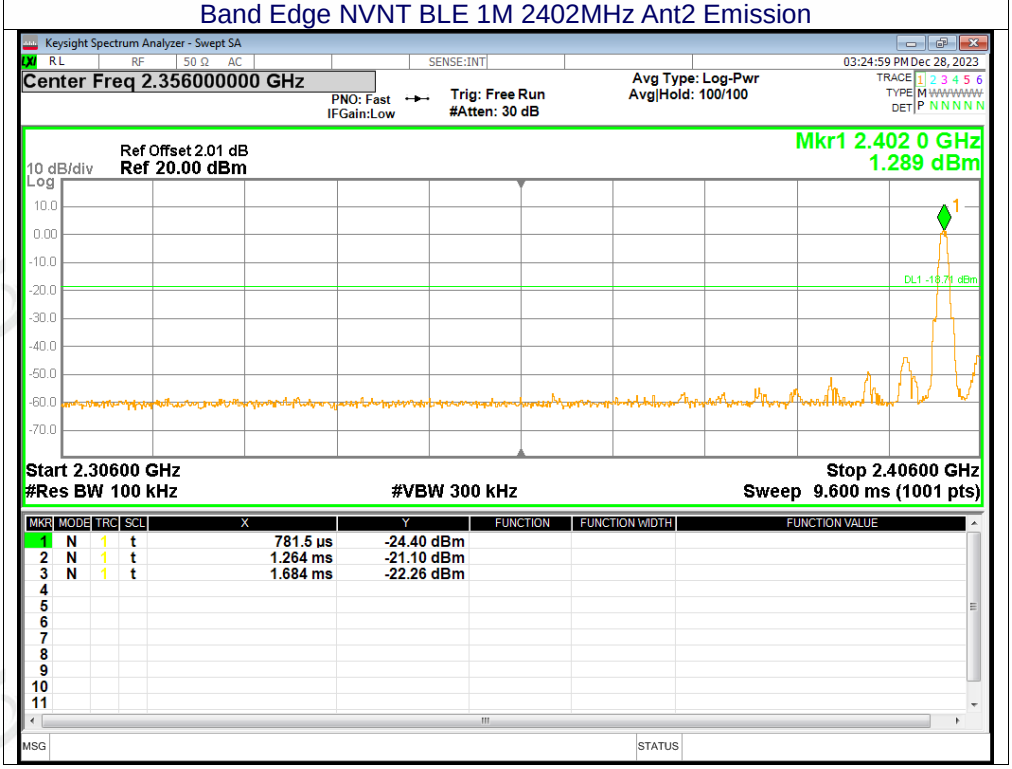
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



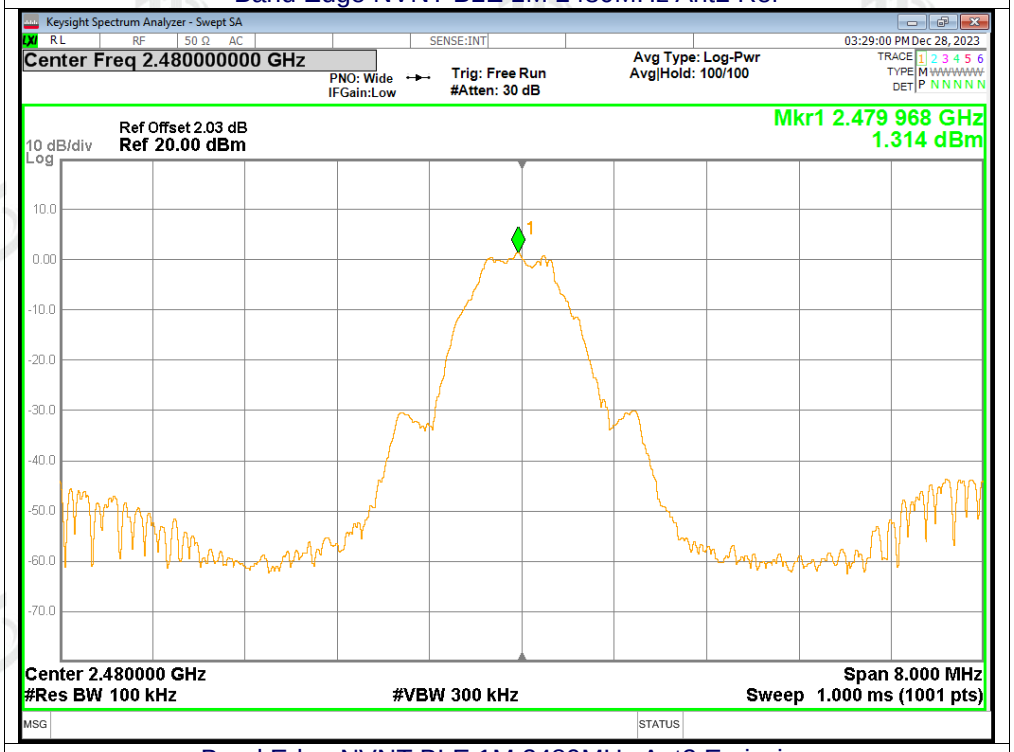
Band Edge NVNT BLE 1M 2402MHz Ant2 Ref



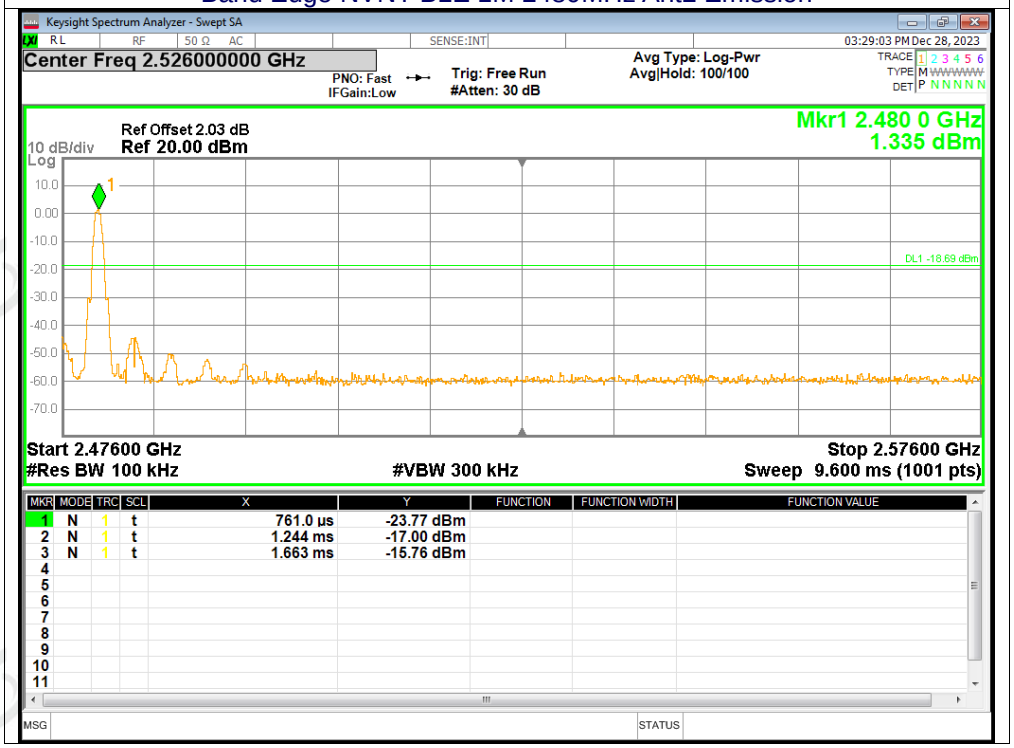
Band Edge NVNT BLE 1M 2402MHz Ant2 Emission



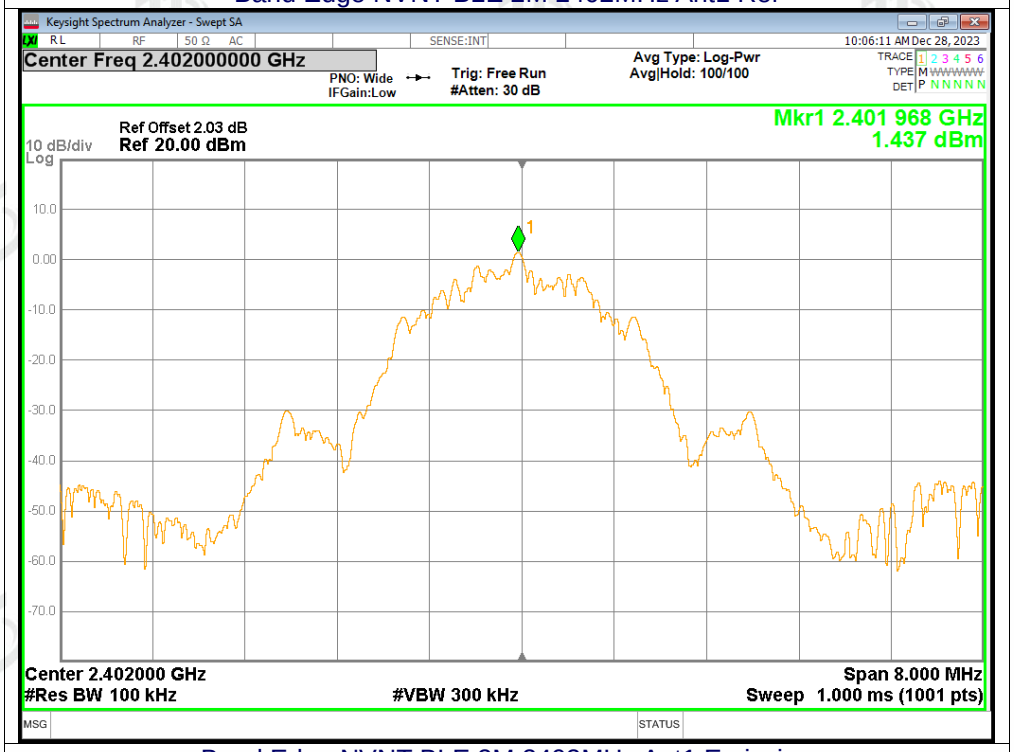
Band Edge NVNT BLE 1M 2480MHz Ant2 Ref



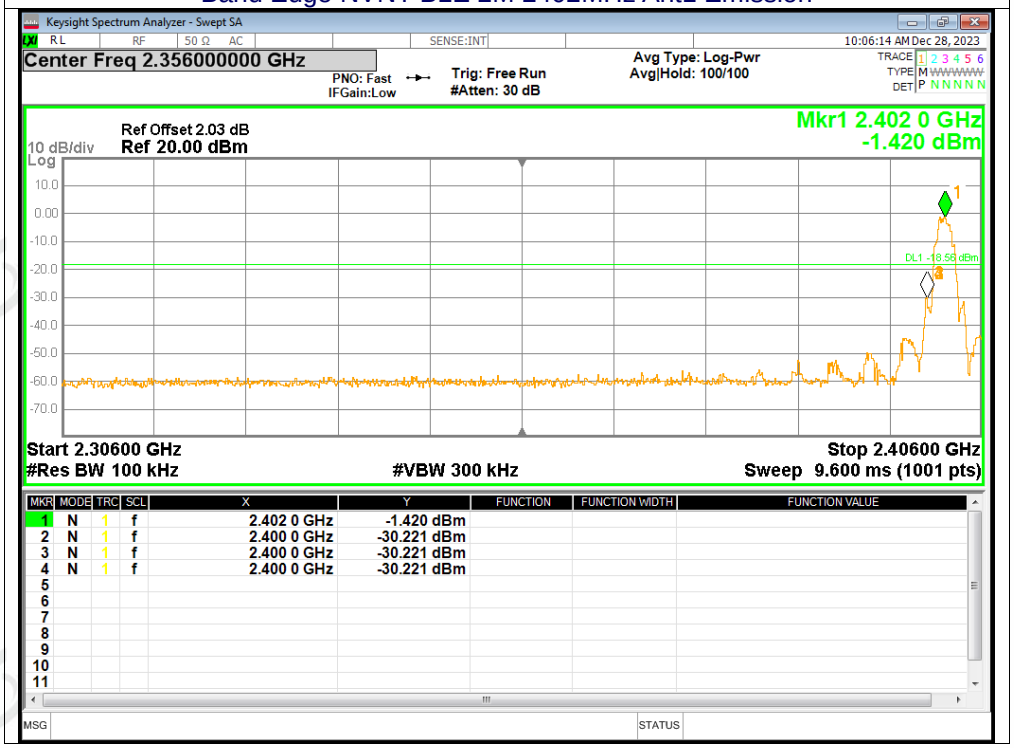
Band Edge NVNT BLE 1M 2480MHz Ant2 Emission



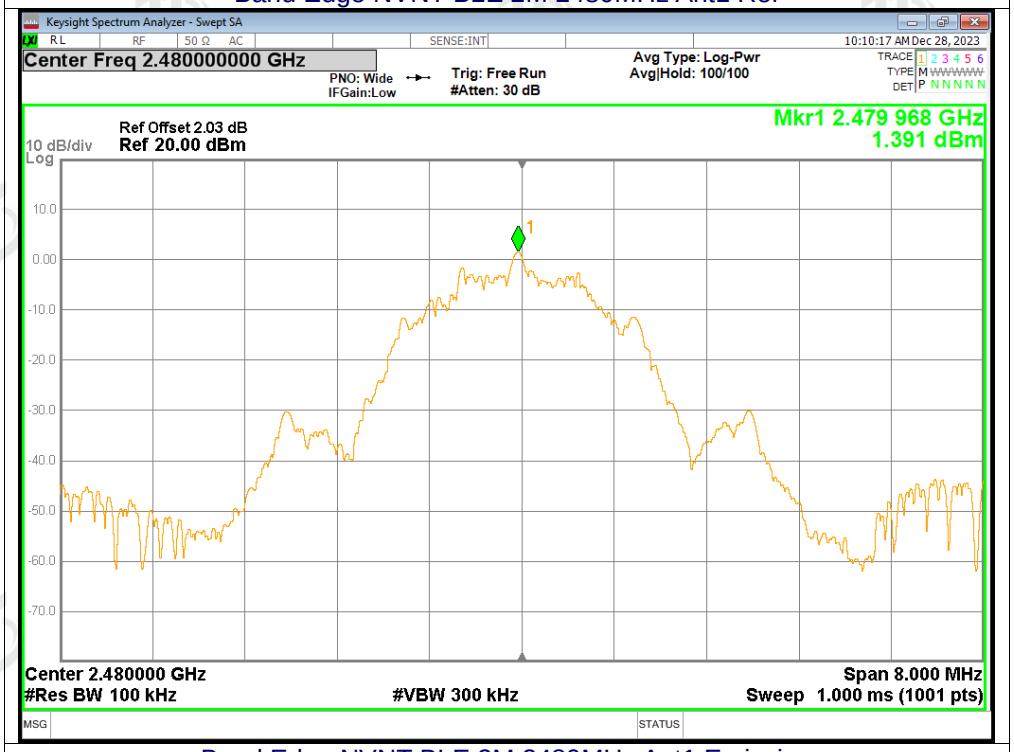
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



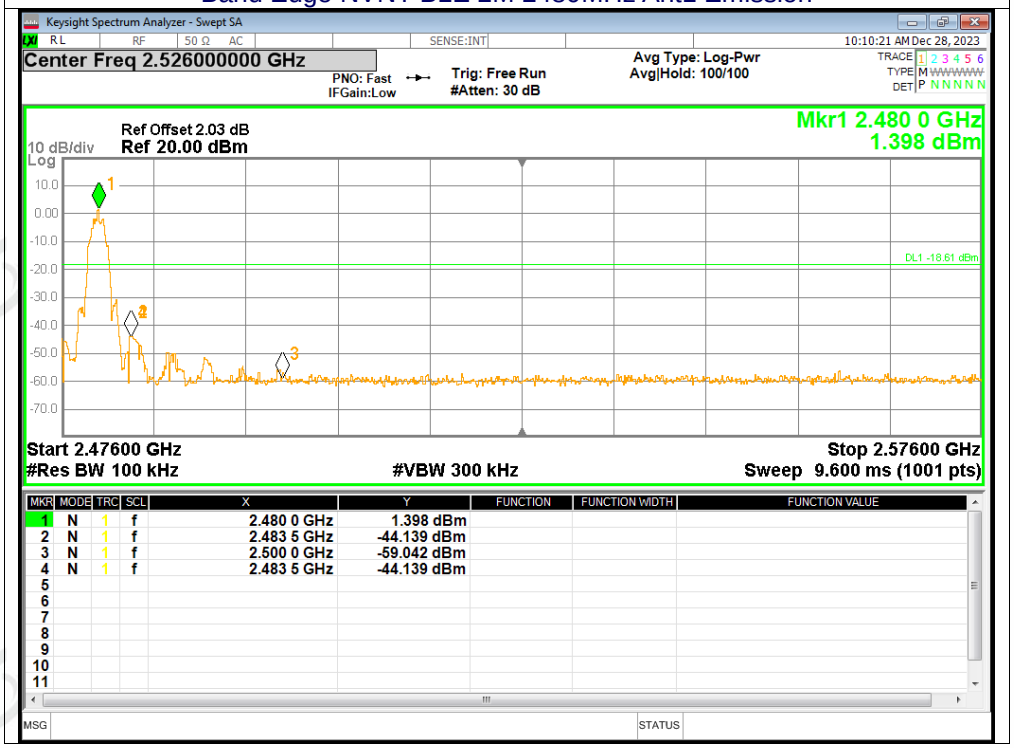
Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



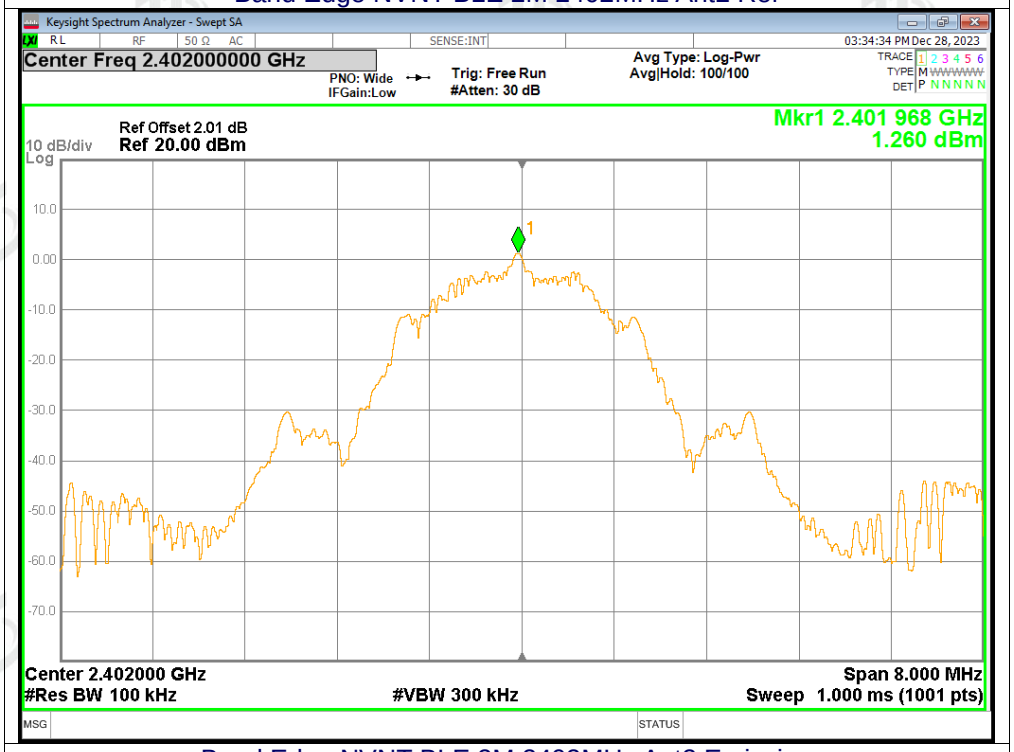
Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



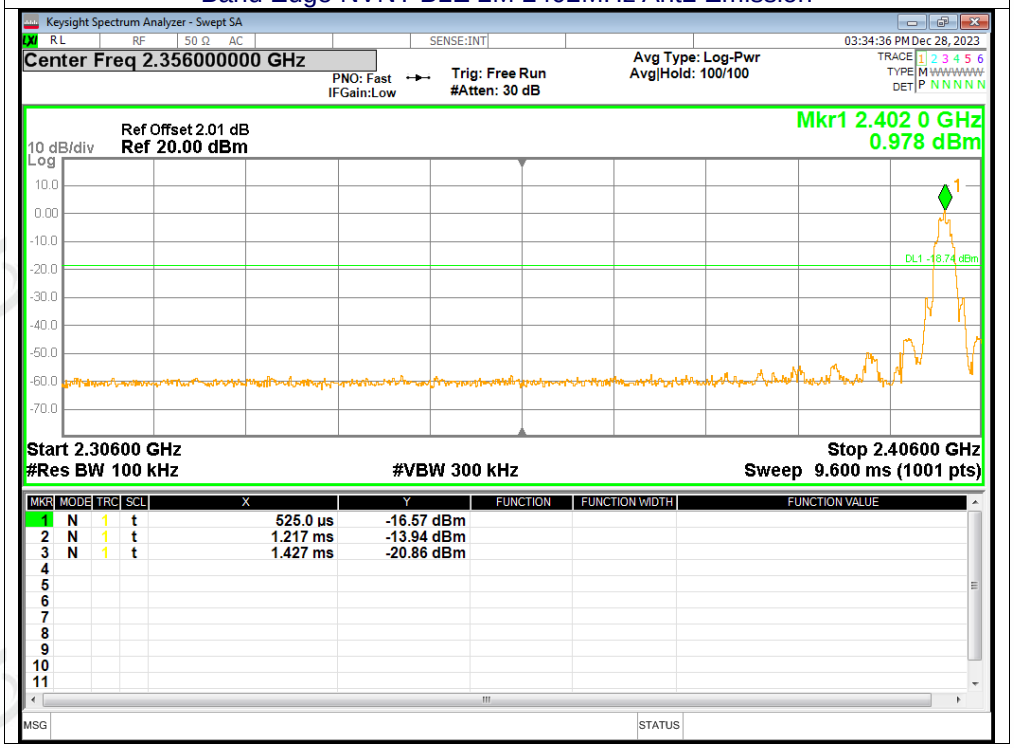
Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



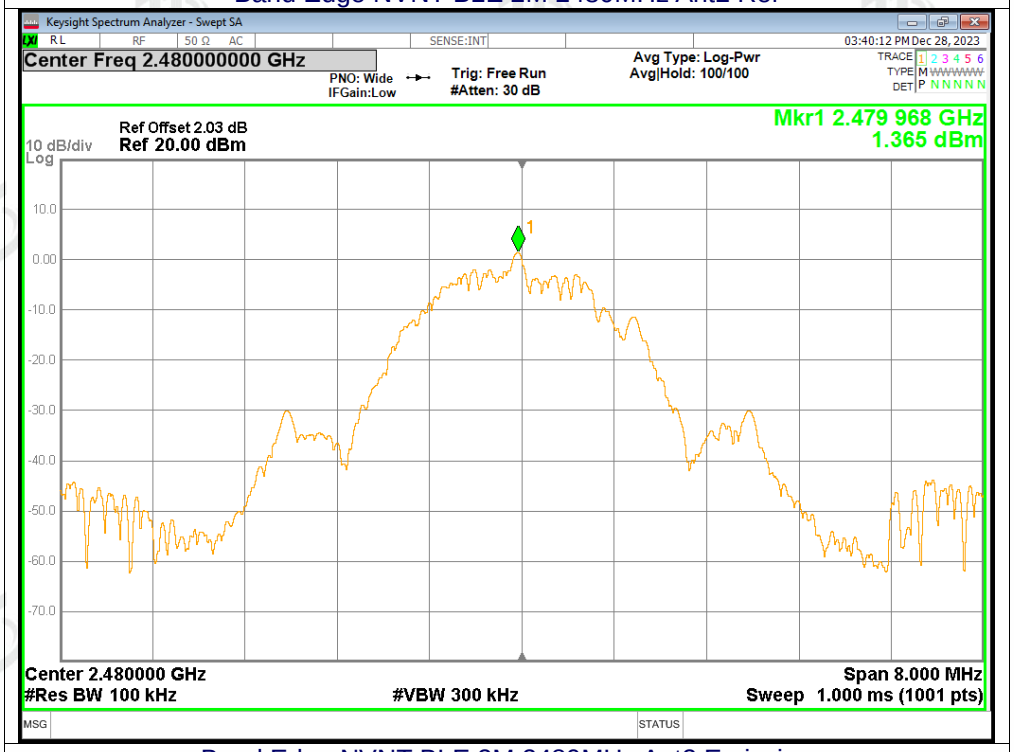
Band Edge NVNT BLE 2M 2402MHz Ant2 Ref



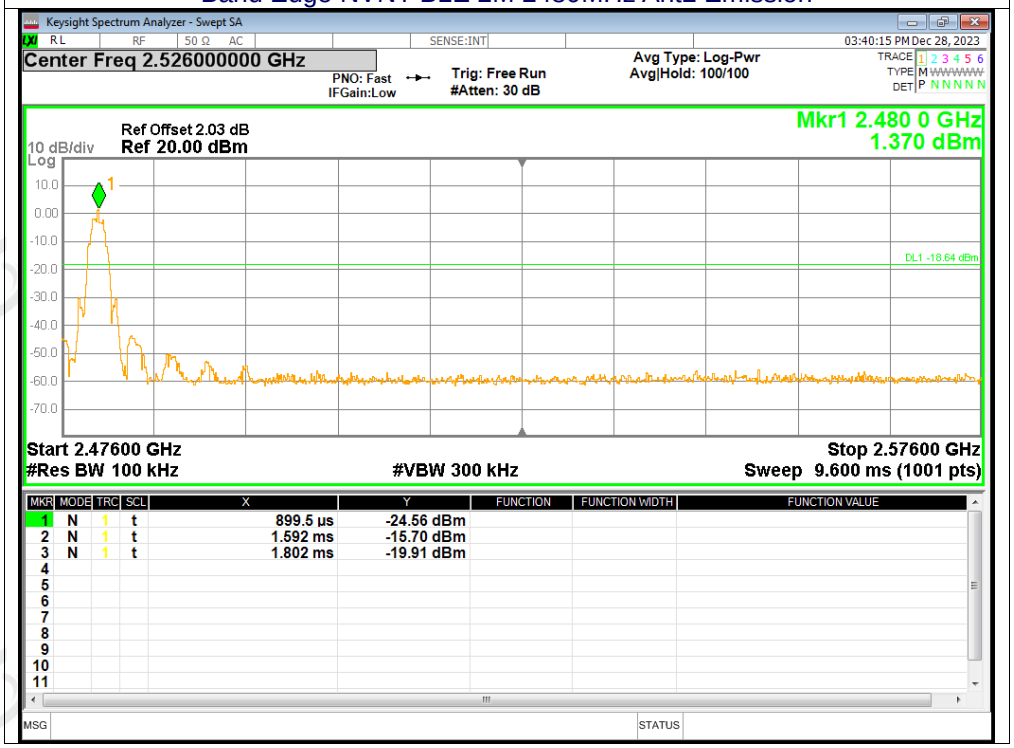
Band Edge NVNT BLE 2M 2402MHz Ant2 Emission



Band Edge NVNT BLE 2M 2480MHz Ant2 Ref



Band Edge NVNT BLE 2M 2480MHz Ant2 Emission

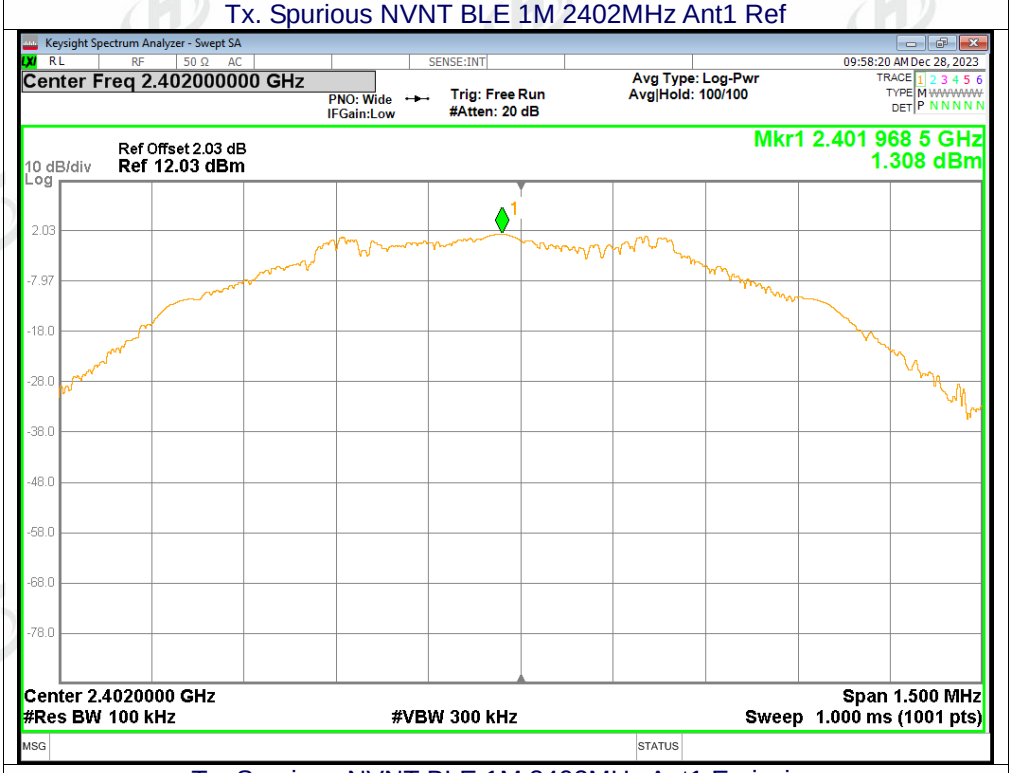


11.6 CONDUCTED RF SPURIOUS EMISSION

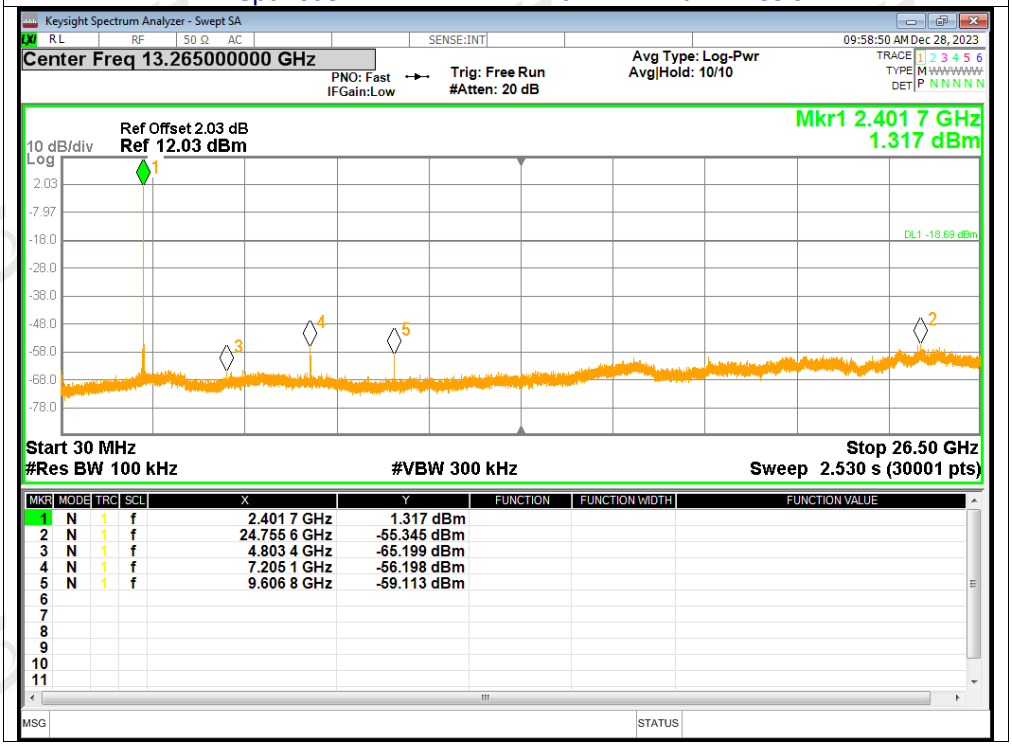
Mode	Antenna	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	Ant1	2402	-56.65	-20	Pass
BLE 1M	Ant1	2440	-56.3	-20	Pass
BLE 1M	Ant1	2480	-57.66	-20	Pass
BLE 1M	Ant2	2402	-57.7	-20	Pass
BLE 1M	Ant2	2440	-57.71	-20	Pass
BLE 1M	Ant2	2480	-57.27	-20	Pass
BLE 2M	Ant1	2402	-43.51	-20	Pass
BLE 2M	Ant1	2440	-58.16	-20	Pass
BLE 2M	Ant1	2480	-57.63	-20	Pass
BLE 2M	Ant2	2402	-57.88	-20	Pass
BLE 2M	Ant2	2440	-58.15	-20	Pass
BLE 2M	Ant2	2480	-57.16	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

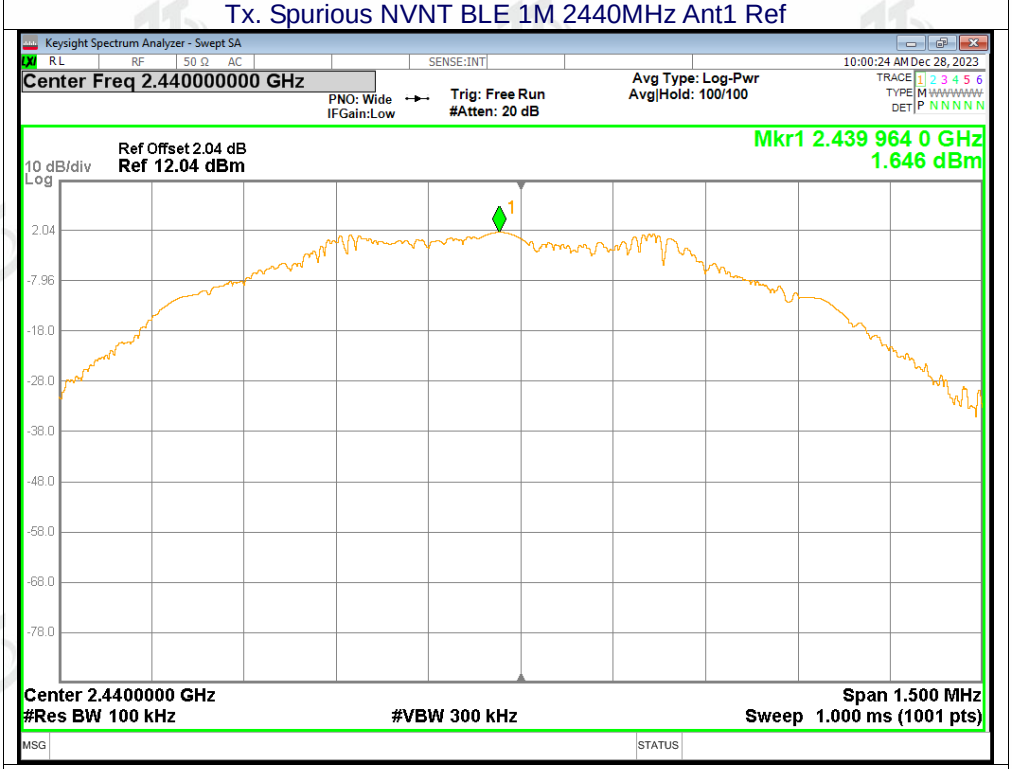


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

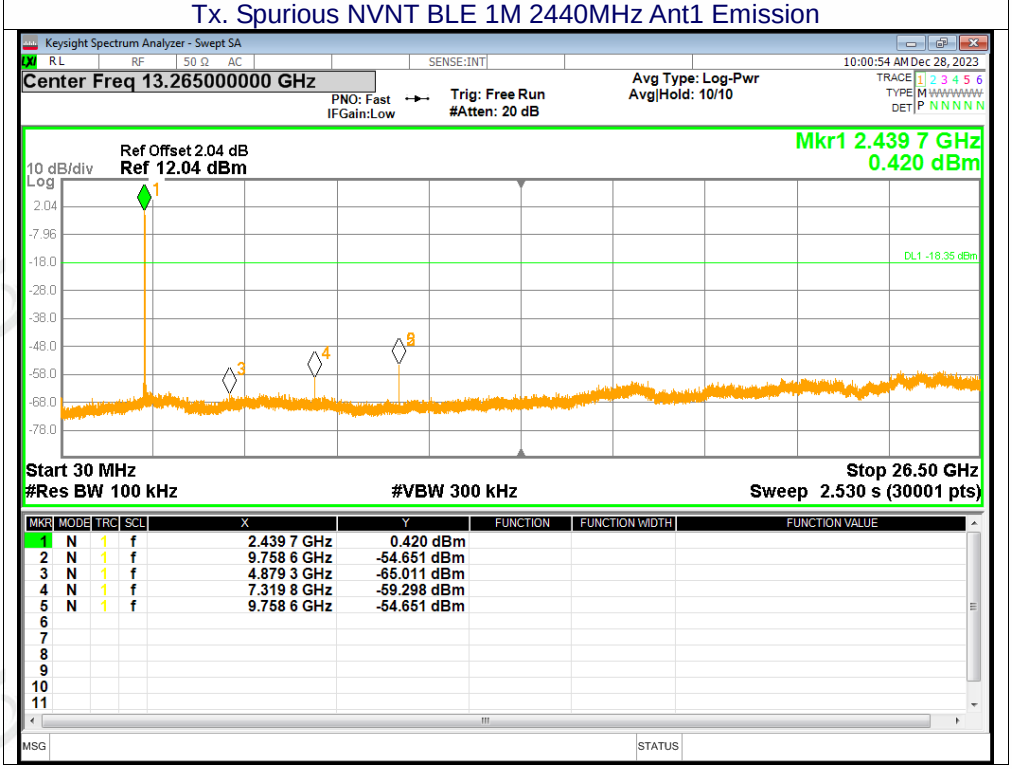


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	1.317 dBm			
2	N	1	f	24.755 6 GHz	-55.345 dBm			
3	N	1	f	4.803 4 GHz	-65.199 dBm			
4	N	1	f	7.205 1 GHz	-56.198 dBm			
5	N	1	f	9.606 8 GHz	-59.113 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref

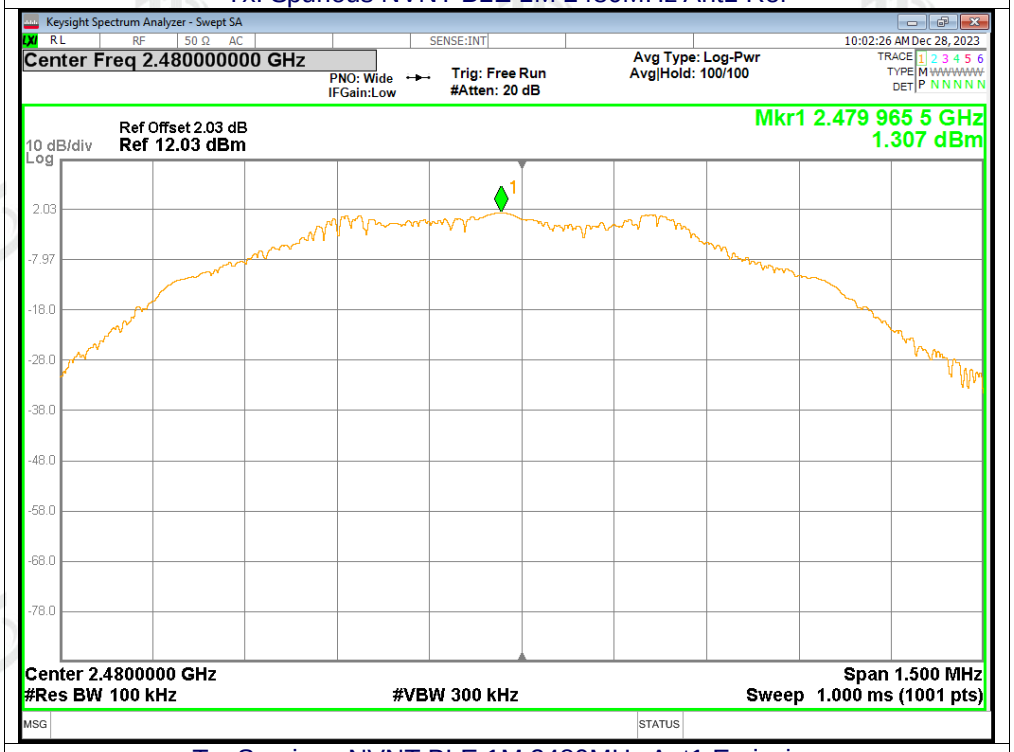


Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

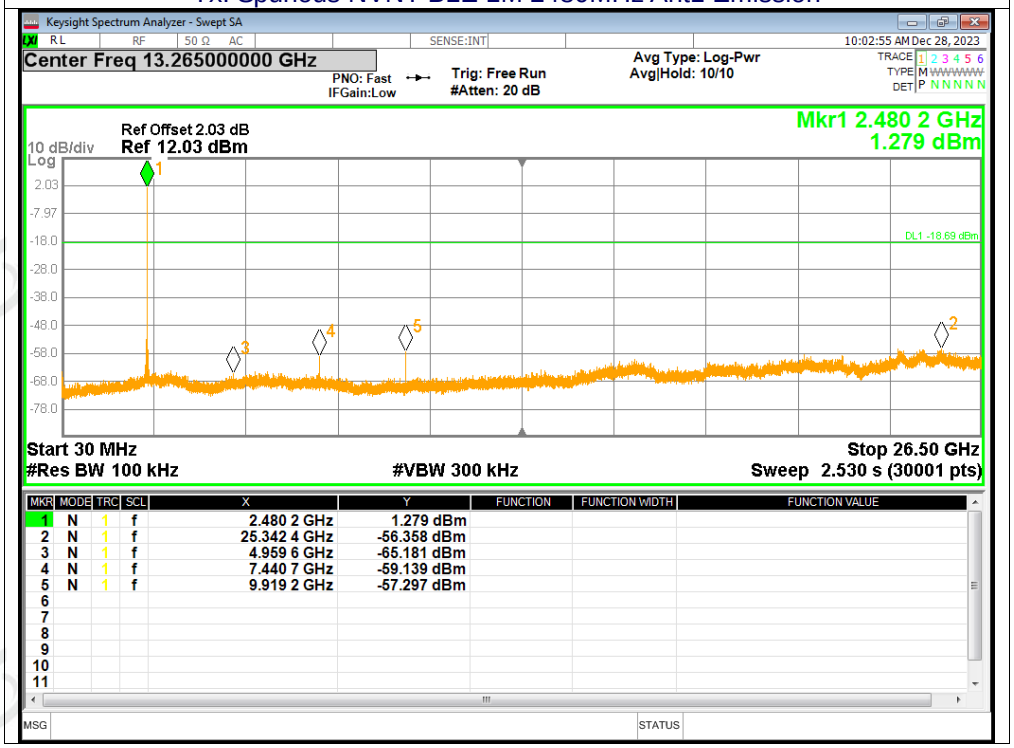


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 7 GHz	0.420 dBm			
2	N	1	f	9.758 6 GHz	-54.651 dBm			
3	N	1	f	4.879 3 GHz	-65.011 dBm			
4	N	1	f	7.319 8 GHz	-59.298 dBm			
5	N	1	f	9.758 6 GHz	-54.651 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref

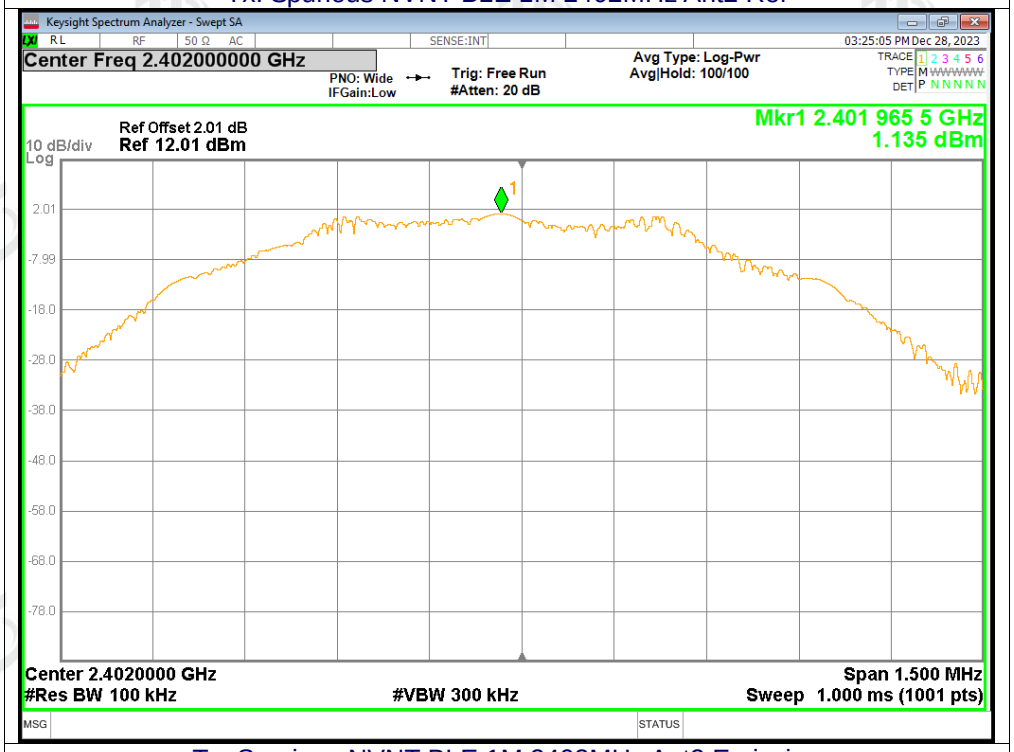


Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

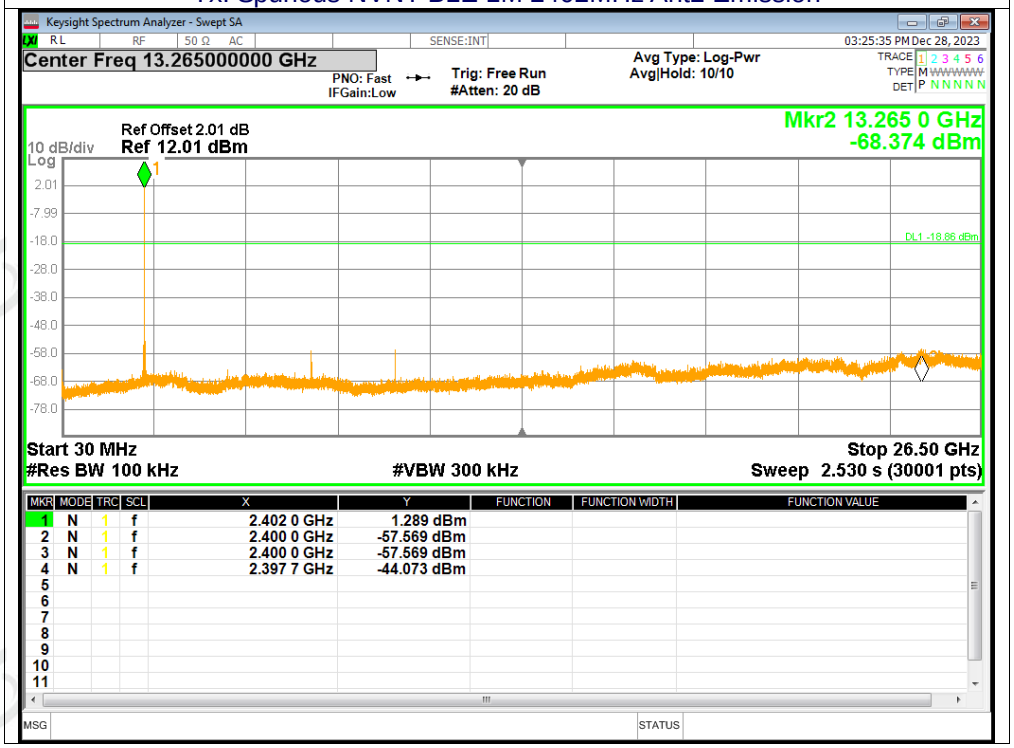


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	1.279 dBm			
2	N	1	f	25.342 4 GHz	-56.358 dBm			
3	N	1	f	4.959 6 GHz	-65.181 dBm			
4	N	1	f	7.440 7 GHz	-59.139 dBm			
5	N	1	f	9.919 2 GHz	-57.297 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Ref

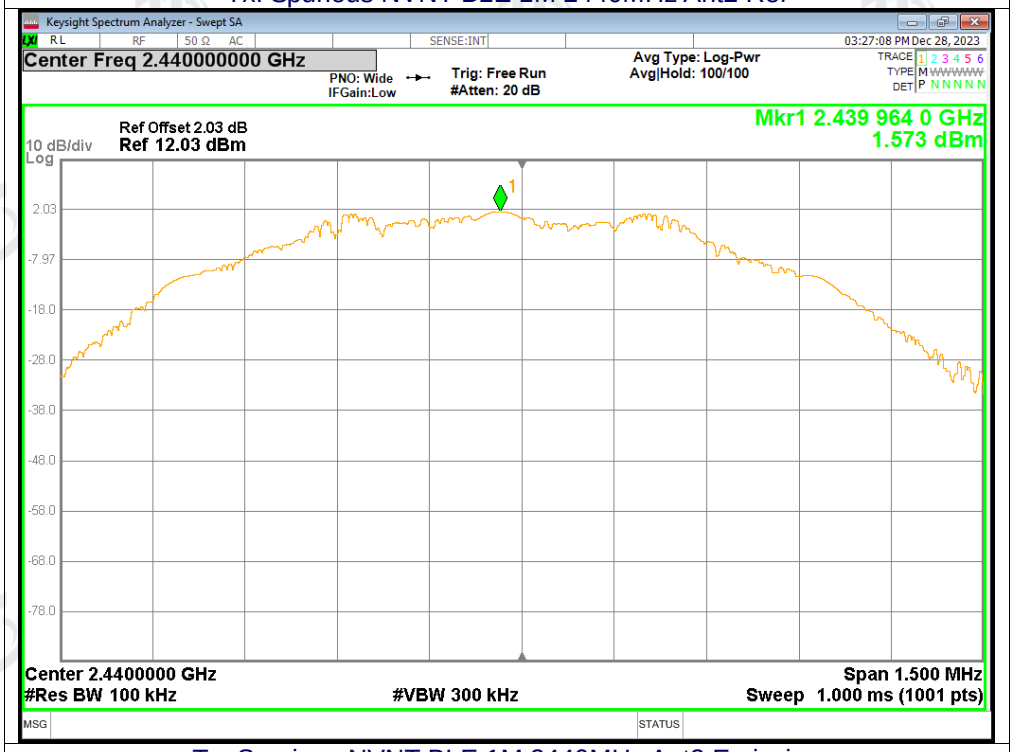


Tx. Spurious NVNT BLE 1M 2402MHz Ant2 Emission

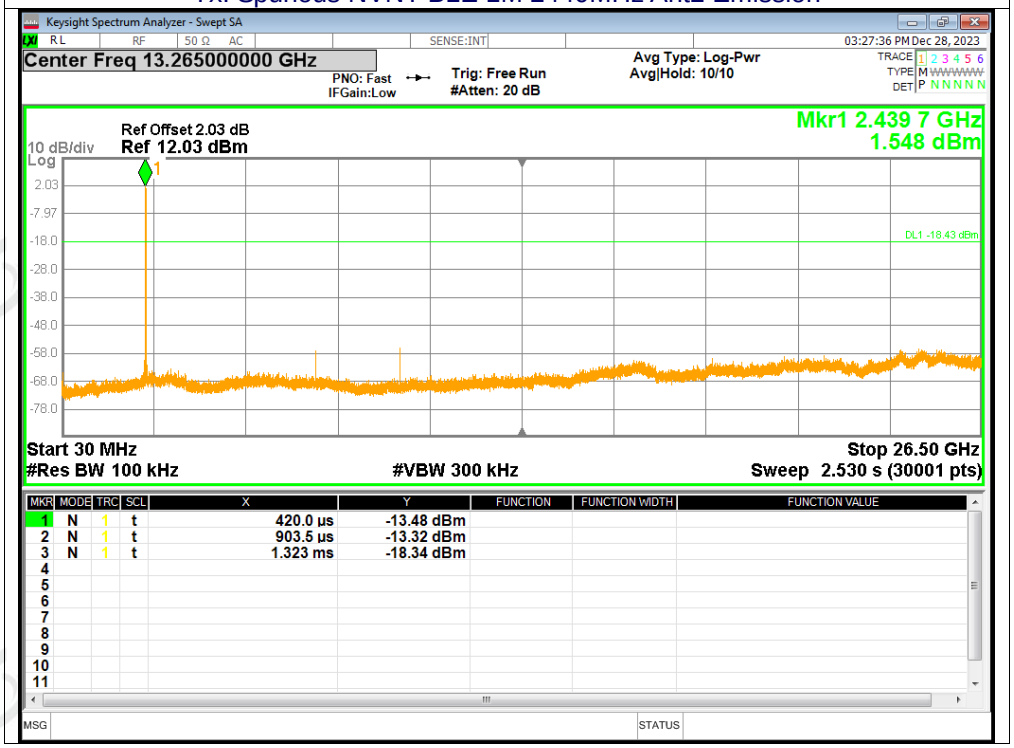


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.402 0 GHz	1.289 dBm			
2	N	1	f	2.400 0 GHz	-57.569 dBm			
3	N	1	f	2.400 0 GHz	-57.569 dBm			
4	N	1	f	2.397 7 GHz	-44.073 dBm			
5								
6								
7								
8								
9								
10								
11								

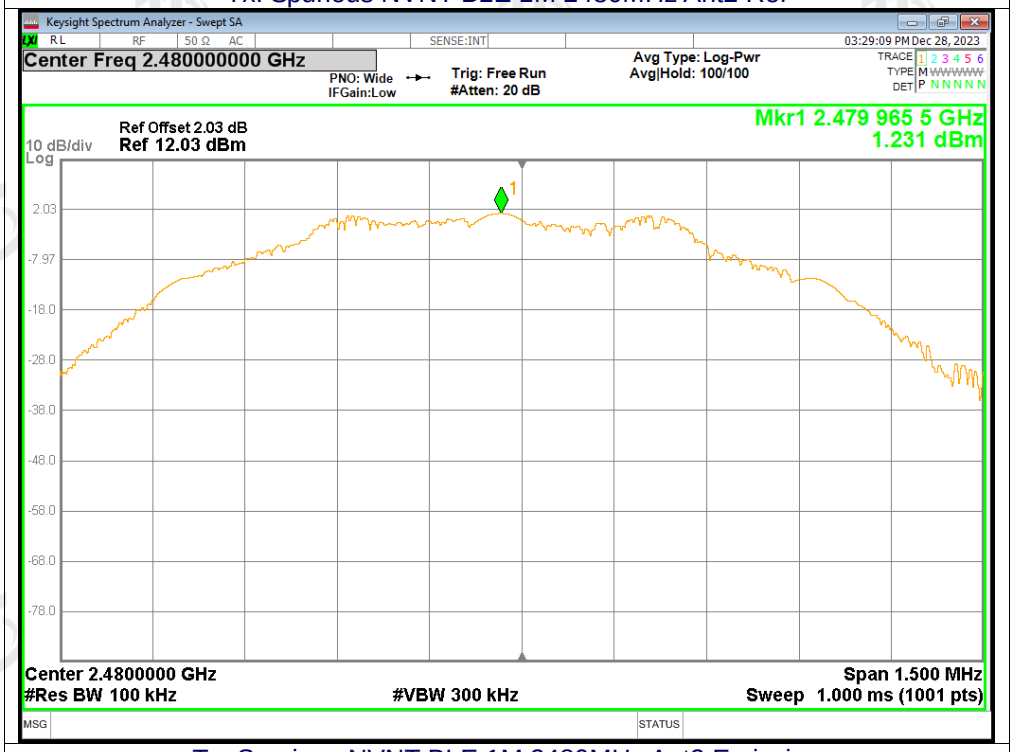
Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Ref



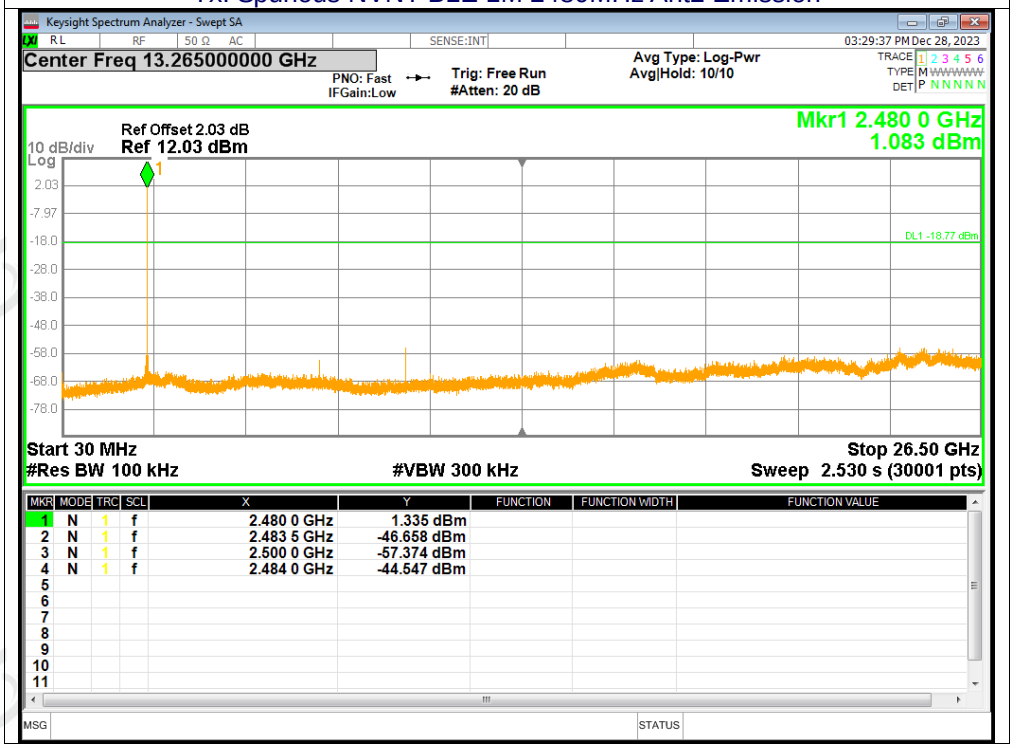
Tx. Spurious NVNT BLE 1M 2440MHz Ant2 Emission



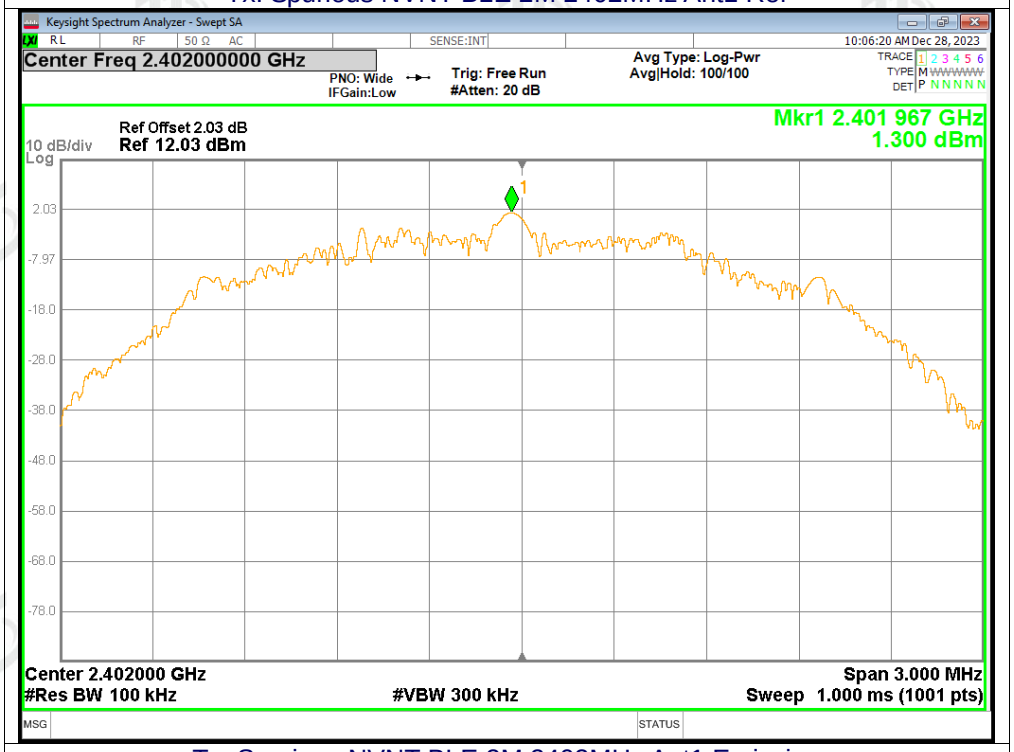
Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Ref



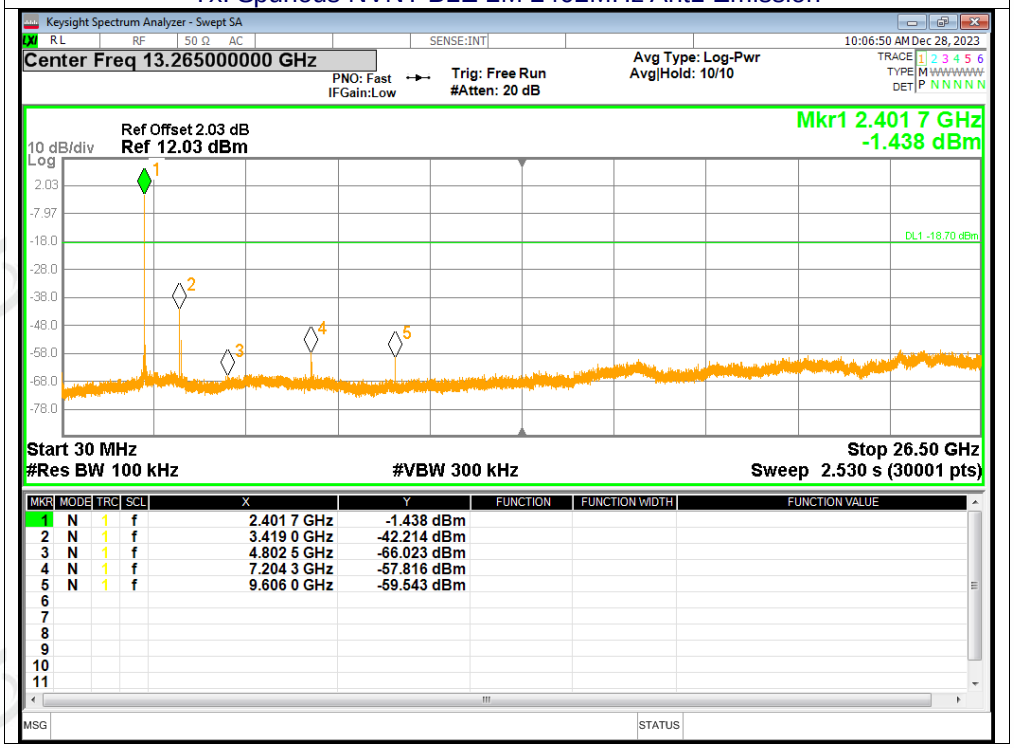
Tx. Spurious NVNT BLE 1M 2480MHz Ant2 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref

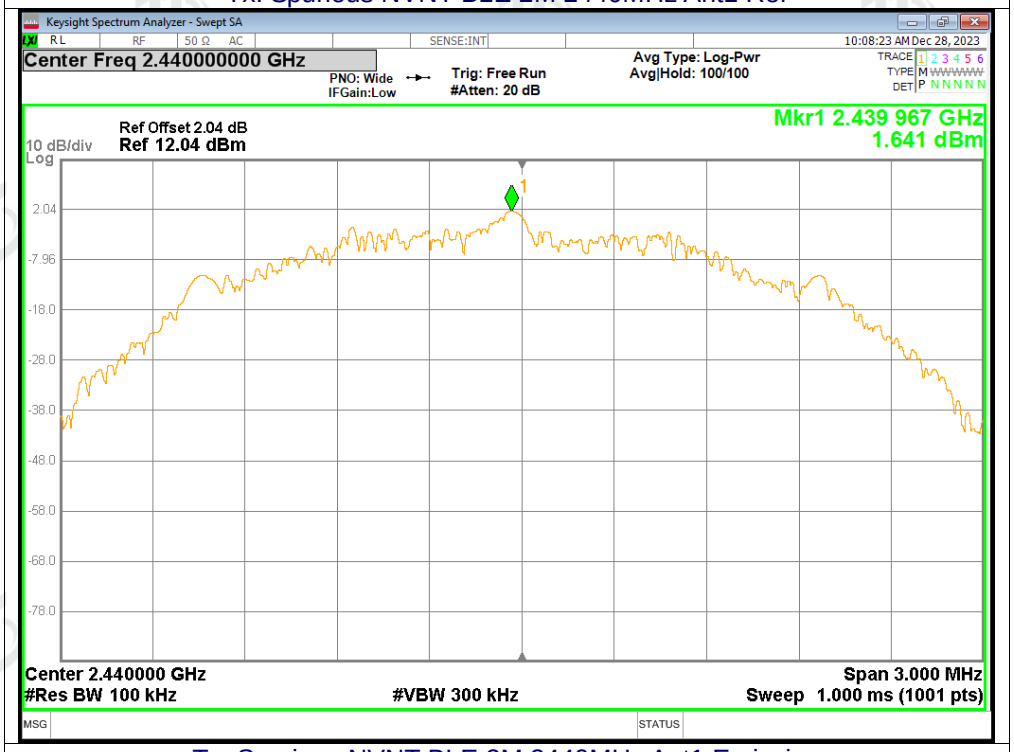


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission

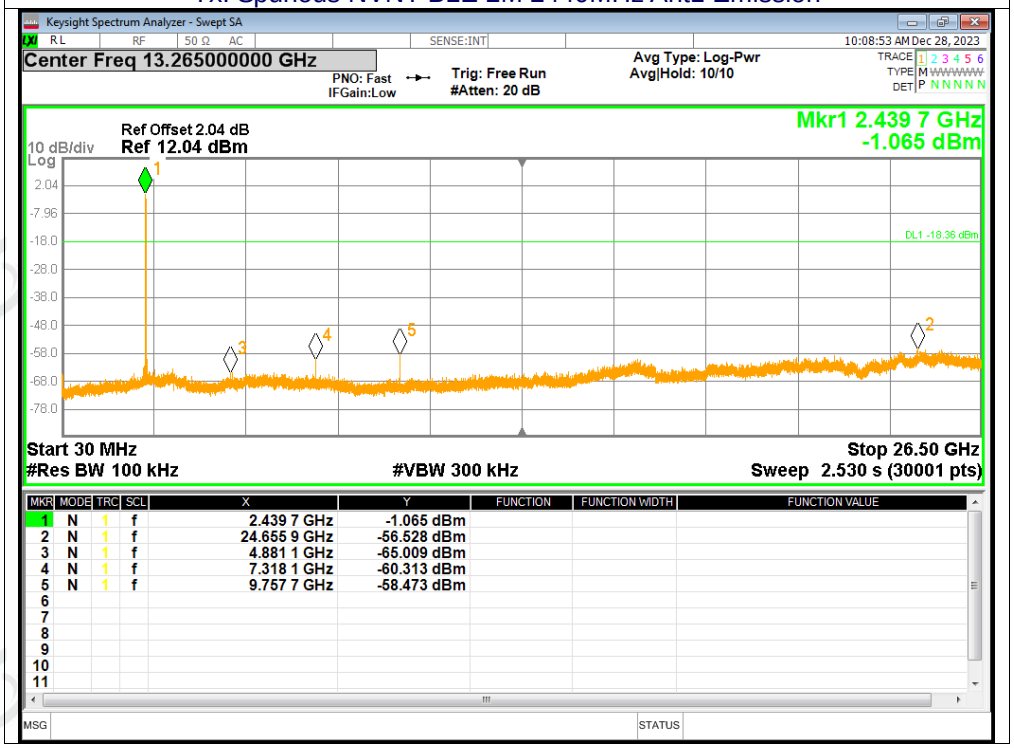


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	-1.438 dBm			
2	N	1	f	3.419 0 GHz	-42.214 dBm			
3	N	1	f	4.802 5 GHz	-66.023 dBm			
4	N	1	f	7.204 3 GHz	-57.816 dBm			
5	N	1	f	9.606 0 GHz	-59.543 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref

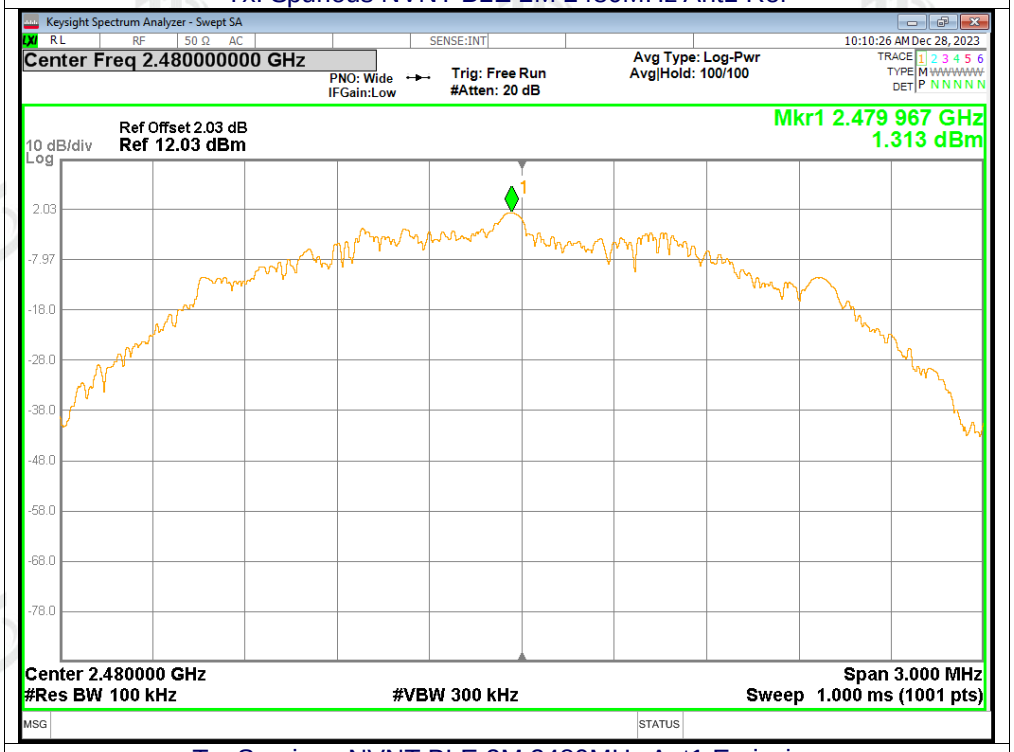


Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission

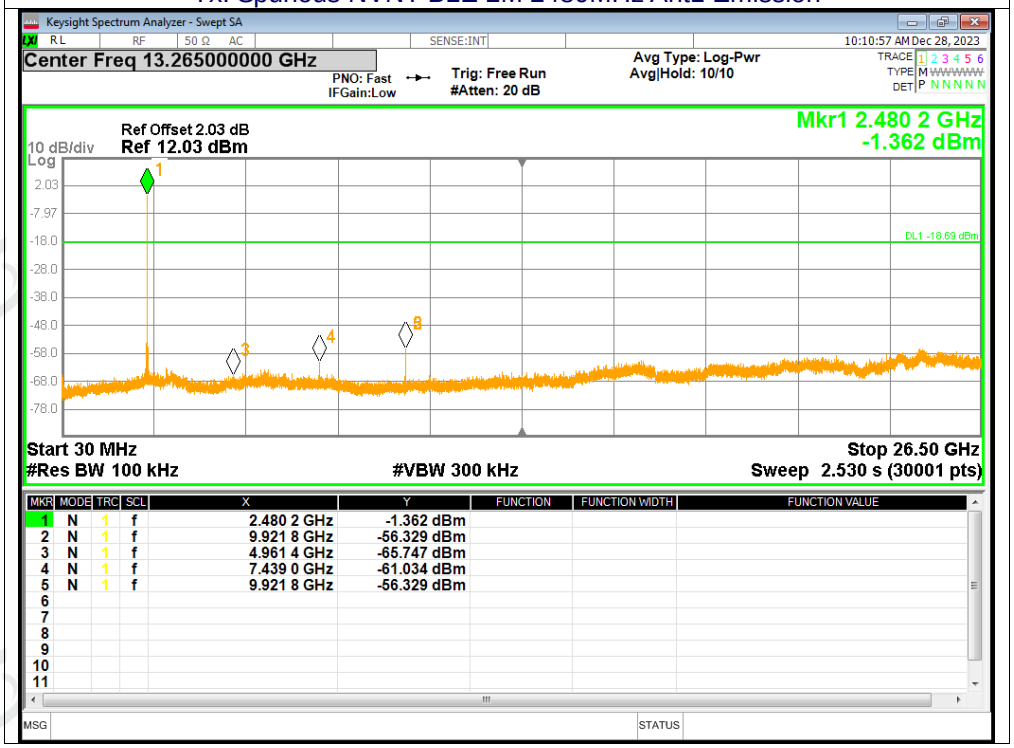


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.439 7 GHz	-1.065 dBm			
2	N	1	f	24.655 9 GHz	-56.528 dBm			
3	N	1	f	4.881 1 GHz	-65.009 dBm			
4	N	1	f	7.318 1 GHz	-60.313 dBm			
5	N	1	f	9.757 7 GHz	-58.473 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref

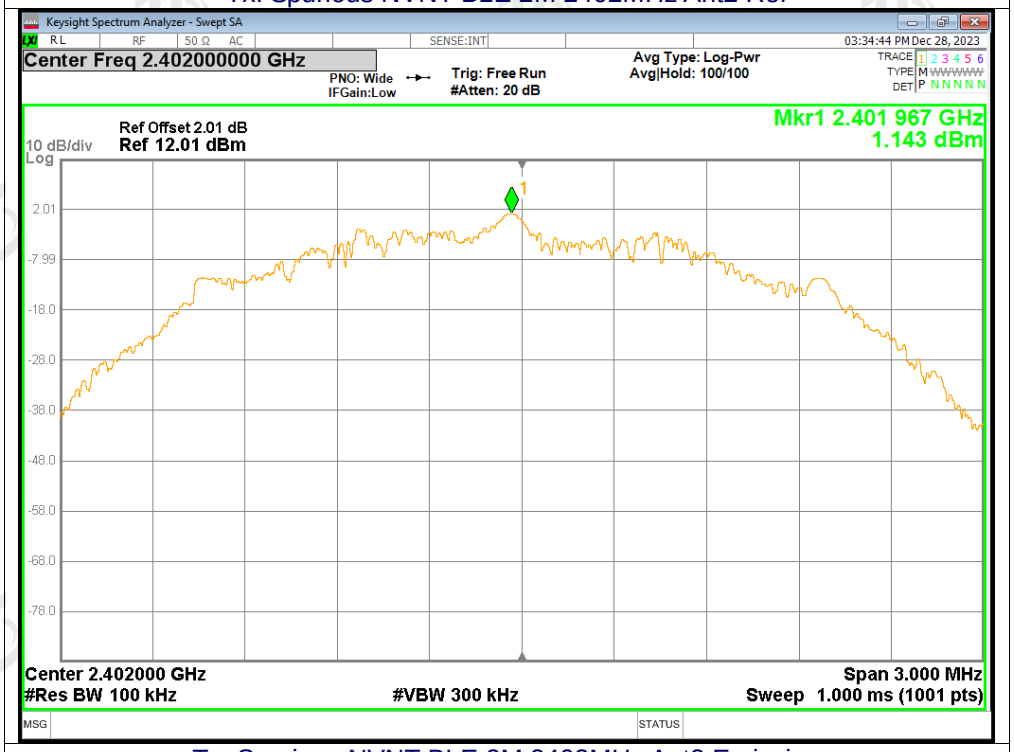


Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

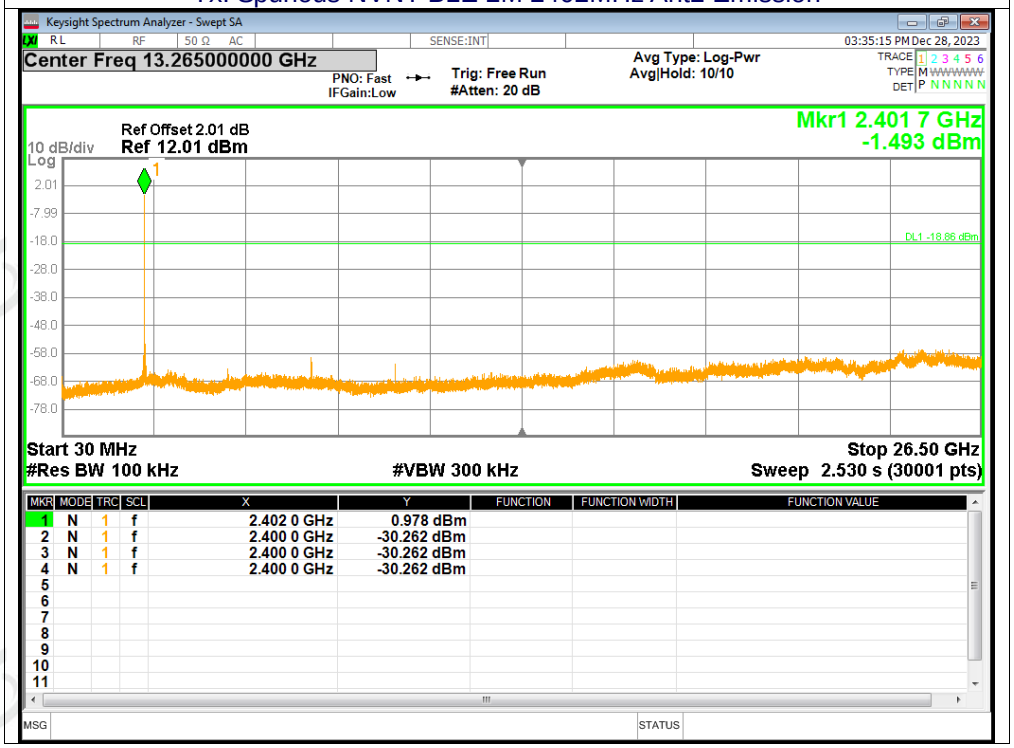


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	-1.362 dBm			
2	N	1	f	9.921 8 GHz	-56.329 dBm			
3	N	1	f	4.961 4 GHz	-65.747 dBm			
4	N	1	f	7.439 0 GHz	-61.034 dBm			
5	N	1	f	9.921 8 GHz	-56.329 dBm			
6								
7								
8								
9								
10								
11								

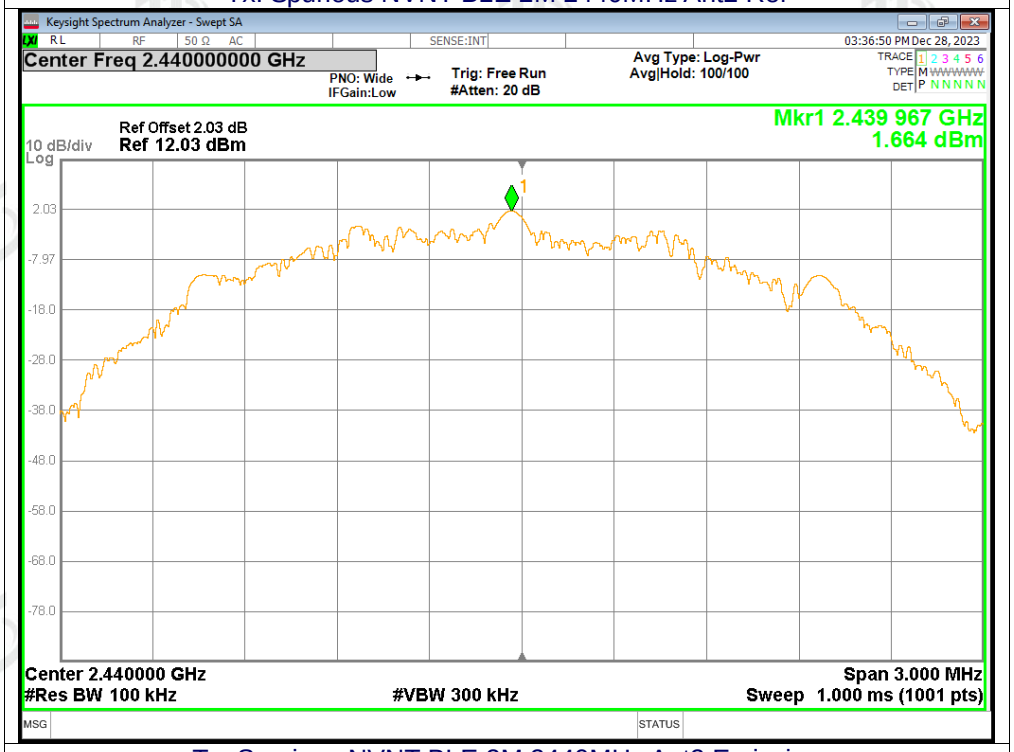
Tx. Spurious NVNT BLE 2M 2402MHz Ant2 Ref



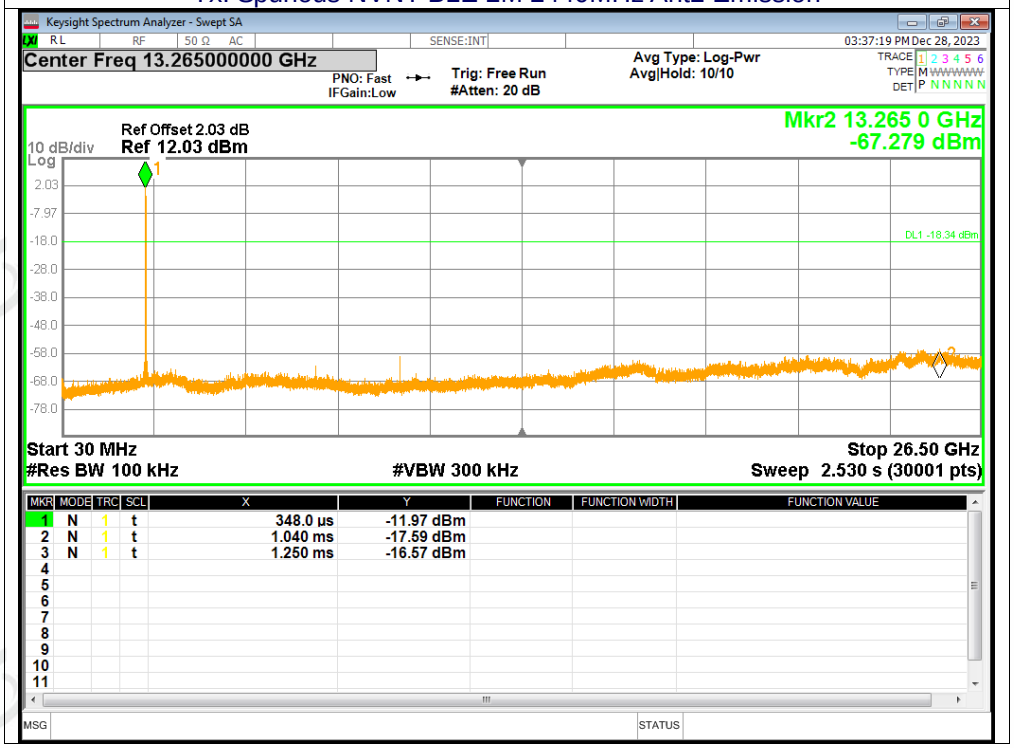
Tx. Spurious NVNT BLE 2M 2402MHz Ant2 Emission



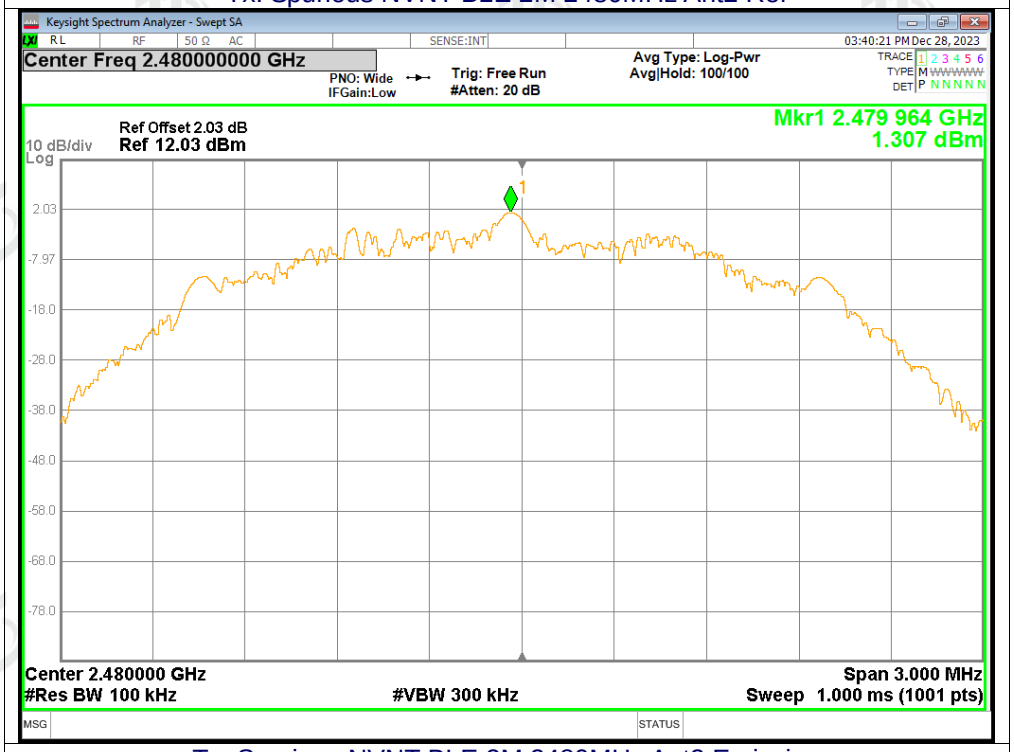
Tx. Spurious NVNT BLE 2M 2440MHz Ant2 Ref



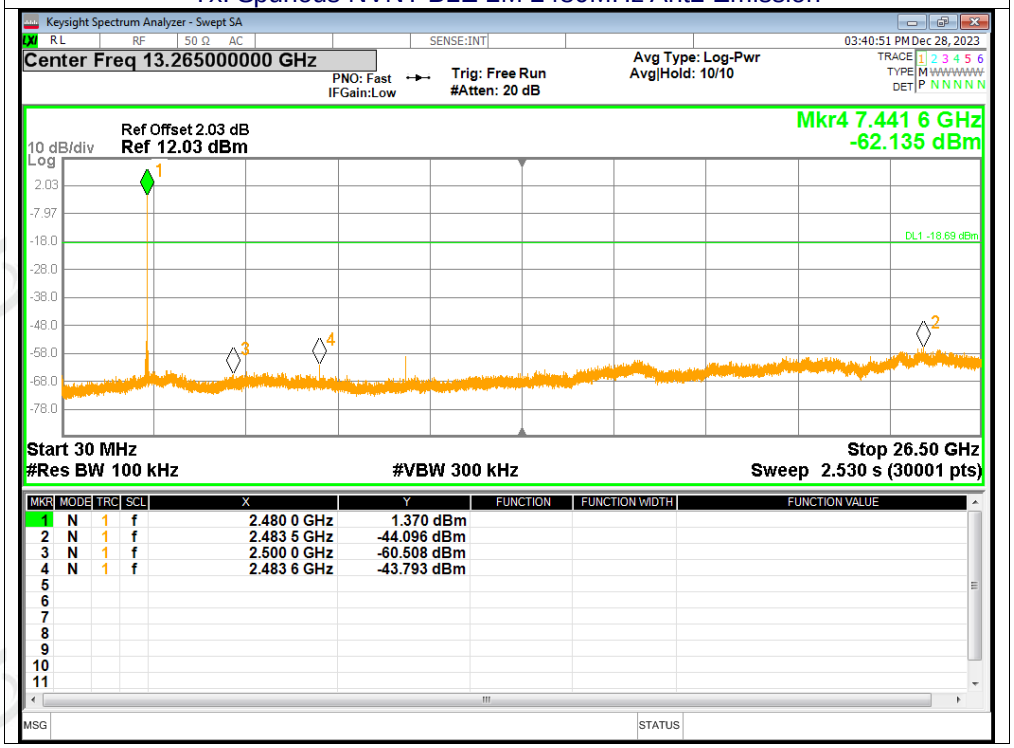
Tx. Spurious NVNT BLE 2M 2440MHz Ant2 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant2 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant2 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 0 GHz	1.370 dBm			
2	N	1	f	2.483 5 GHz	-44.096 dBm			
3	N	1	f	2.500 0 GHz	-60.508 dBm			
4	N	1	f	2.483 6 GHz	-43.793 dBm			
5								
6								
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8								
9								
10								
11								

12. TEST SETUP PHOTOS

Reference to the appendix I for details.

13. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

※※※※※ END OF REPORT ※※※※※