



FCC Part 15C Test Report

FCC ID:2BW9T-AMOS-03

Report Number..... : ZKT-260730L2046E-1

Date of Test..... July 11, 2026 to Aug. 03, 2026

Date of issue..... Aug. 03, 2026

Total number of pages 140

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 : AMOS SWEETS INC.

Address 732 S 6TH ST, STE R, LAS VEGAS, NEVADA, USA

Manufacturer's name : AMOS SWEETS INC.

Address 732 S 6TH ST, STE R, LAS VEGAS, NEVADA, USA

Test specification:

Standard FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10-2020+Cor 1-2023

Test procedure /

Non-standard test method N/A

Test Report Form No. : TRF-EL-112_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2021-04-22

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..... : AMOS TastySounds Wireless Audio Lollipop

Trademark AMOS

Model/Type reference..... AMOS-03

Ratings..... Input: DC 5V



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

Reviewer (name + signature).....: Jackson Fang

Approved (name + signature): 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	10
3.3 Support Equipment	10
3.4 Test Mode	11
3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
4. EMC EMISSION TEST	14
4.1 Conducted emissions	14
4.1.1 POWER LINE CONDUCTED EMISSION Limits	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.1.6 Test Result	16
4.2 Radiated emissions	18
4.2.1 Radiated Emission Limits	18
4.2.2 TEST PROCEDURE	18
4.2.3 DEVIATION FROM TEST STANDARD	19
4.2.4 TEST SETUP	19
4.2.5 EUT OPERATING CONDITIONS	20
4.2.6 TEST RESULTS	21
5. EMISSIONS AT RESTRICTED BAND	63
5.1 Test Requirement:	63
5.2 TEST PROCEDURE	63
5.3 DEVIATION FROM TEST STANDARD	64
5.4 TEST SETUP	64
5.5 TEST RESULT	64
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION	65
6.1 Limit	65
6.2 Test Setup	65
6.3 Test procedure	65
6.4 DEVIATION FROM STANDARD	65
6.5 Test Result	65
7. 20DB BANDWIDTH	66
7.1 Test Setup	66
7.2 Limit	66
7.3 Test procedure	66
7.4 DEVIATION FROM STANDARD	66
7.5 Test Result	66



8. MAXIMUM PEAK OUTPUT POWER	67
8.1 Block Diagram Of Test Setup	67
8.2 Limit	67
8.3 Test procedure	67
8.4 DEVIATION FROM STANDARD	67
8.5 Test Result	67
9. HOPPING CHANNEL SEPARATION	68
9.1 Test Setup	68
9.2 Test procedure	68
9.3 DEVIATION FROM STANDARD	68
9.4 Test Result	68
10. NUMBER OF HOPPING FREQUENCY	69
10.1 Test Setup	69
10.2 Test procedure	69
10.3 DEVIATION FROM STANDARD	69
10.4 Test Result	69
11. DWELL TIME	70
11.1 Test Setup	70
11.2 Test procedure	70
11.3 DEVIATION FROM STANDARD	70
11.4 Test Result	70
12. APPENDIX 1-TEST DATA	72
DWELL TIME	72
DUTY CYCLE	82
MAXIMUM PEAK CONDUCTED OUTPUT POWER	88
-20DB BANDWIDTH	94
CARRIER FREQUENCIES SEPARATION	100
NUMBER OF HOPPING CHANNEL	106
BAND EDGE	109
BAND EDGE(HOPPING)	116
CONDUCTED RF SPURIOUS EMISSION	123
RESTRICT BAND	133
13. TEST SETUP PHOTO	140
14. EUT CONSTRUCTIONAL DETAILS	140



1. VERSION

Report No.	Version	Description	Approved
ZKT-260730L2046E-1	Rev.01	Initial issue of report	Aug. 03, 2026



2. TEST SUMMARY

Test procedures according to the technical standards:

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

NOTE:

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



2.1 TEST FACILITY

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

FCC Test Firm Registration Number: 927491
Designation Number: CN1431
IC Registered No.: 27033
CAB identifier: CN0110

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	3m chamber Radiated spurious emission(9KHz-30MHz)	U=4.5dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.8dB
3	3m chamber Radiated spurious emission(1GHz-6GHz)	U=4.9dB
4	3m chamber Radiated spurious emission(6GHz-40GHz)	U=5.0dB
5	Conducted disturbance	U=3.2dB
6	RF Band Edge	U=1.68dB
7	RF power conducted	U=1.86dB
8	RF conducted Spurious Emission	U=2.2dB
9	RF Occupied Bandwidth	U=1.8dB
10	RF Power Spectral Density	U=1.75dB
11	humidity uncertainty	U=5.3%
12	Temperature uncertainty	U=0.59°C



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	AMOS TastySounds Wireless Audio Lollipop
Trade Mark:	AMOS
Model No.:	AMOS-03
Serial No.:	N/A
Model Different.:	N/A
Hardware Version:	V2.2
Software Version:	V1
Sample(s) Status:	Engineer sample
Sample Number	ZKT-260730L2046
Channel numbers:	79
Operation Frequency:	2402MHz~2480MHz
Modulation technology:	GFSK, $\pi/4$ -DQPSK, 8DPSK(3Mbps)
Antenna Type:	SMD
Antenna gain:	2.7dBi
Power Supply:	Input: DC 5V
Battery Capacity:	Model: 400930 Brand: N/A Rated Voltage: 3.7V Capacity: 80mAh

Note1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note2: The EUT's all information provided by client.



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:

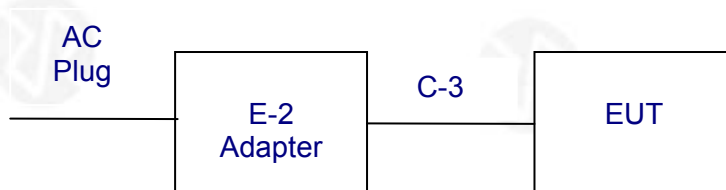
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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

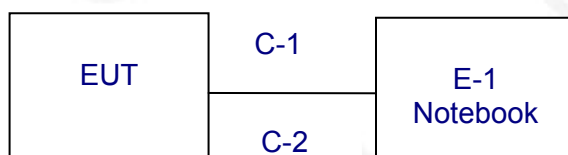


3.2 Test Setup Configuration

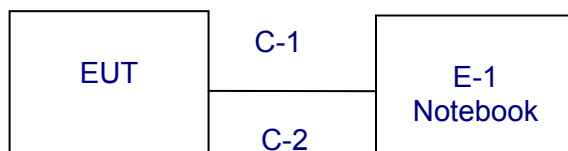
Conducted Emission



Radiated Emission



RF Conducted Spurious



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.	Note
E-1	Notebook	HP	ST2	N/A
E-2	Adapter	UGREEN	X569	N/A
C-1	Serial port board	XES	WTYZK	N/A
C-2	USB Cable	MI	RYEW3A	N/A
C-3	USB Cable	ZTC	NB-A515A	N/A

Item	Equipment	Mfr/Brand	Length	Note
C-2	Shielded	NO	150cm	N/A
C-3	Shielded	NO	100cm	N/A

Note:

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



3.4 Test Mode

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

Test Software	bt_tool_v1.1.2
Power level setup	2



3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Conduction Emissions Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	N/A	Sep. 23, 2025	Sep. 22, 2026
2	LISN	CYBERTEK	EM5040A	E1850400149	N/A	Sep. 19, 2025	Sep. 18, 2026
3	Test Cable	N/A	C-01	N/A	N/A	May 25, 2026	May 24, 2027
4	EMI Test Receiver	R&S	ESCI3	101393	4.42 SP3	Oct. 24, 2025	Oct. 23, 2026
5	EMC Software	Frad	EZ-EMC	Ver.EMC-CON 3A1.1	N/A	\	\

Radiation Emissions & Radiation Spurious Emissions Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	EMI Test Receiver (9kHz-7GHz)	R&S	ESCI7	100969	4.32	Oct. 24, 2025	Oct. 23, 2026
4	Bilog Antenna (30MHz-1500MHz)	<u>Schwarzbeck</u>	VULB9168	00877	N/A	Sep. 20, 2025	Sep. 19, 2026
5	Horn Antenna (1GHz-18GHz)	Agilent	AH-118	071145	N/A	Sep. 20, 2025	Sep. 19, 2026
6	Horn Antenna (15GHz-40GHz)	A.H.System	SAS-574	588	N/A	Sep. 30, 2025	Sep. 29, 2026
7	Loop Antenna	TESEQ	HLA6121	58357	N/A	Sep. 20, 2025	Sep. 19, 2026
8	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	60747	N/A	Sep. 19, 2025	Sep. 18, 2026
9	Amplifier (1GHz-26.5GHz)	HuiPu	8449B	3008A00315	N/A	Sep. 19, 2025	Sep. 18, 2026
10	Amplifier (500MHz-40GHz)	QuanJuDa	DLE-161	097	N/A	Oct. 24, 2025	Oct. 23, 2026
11	Test Cable	N/A	R-01	N/A	N/A	May 25, 2026	May 24, 2027
12	Test Cable	N/A	R-02	N/A	N/A	May 25, 2026	May 24, 2027
13	Test Cable	N/A	R-03	N/A	N/A	May 25, 2026	May 24, 2027
14	D.C. Power Supply	LongWei	TPR-6405D	N/A	N/A	\	\
15	EMC Software	Frad	EZ-EMC	Ver.EMC-CO N 3A1.1	N/A	\	\
16	Turntable	MF	MF-7802BS	N/A	N/A	\	\
17	Antenna tower	MF	MF-7802BS	N/A	N/A	\	\



RF Conducted Test

Item	Equipment	Manufacturer	Type No.	Serial No.	Firmware Version	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	N9020A	MY55370835	A.17.05	Sep. 20, 2025	Sep. 19, 2026
2	Spectrum Analyzer (10kHz-39.9GHz)	R&S	FSV40-N	100363	1.71 SP2	Sep. 20, 2025	Sep. 19, 2026
3	Test Cable	N/A	RF-01	N/A	N/A	May 25, 2026	May 24, 2027
4	Test Cable	N/A	RF-02	N/A	N/A	May 25, 2026	May 24, 2027
5	Test Cable	N/A	RF-03	N/A	N/A	May 25, 2026	May 24, 2027
6	ESG Signal Generator	Agilent	E4421B	N/A	B.03.84	Sep. 19, 2025	Sep. 18, 2026
7	Signal Generator	Agilent	N5182A	N/A	A.01.87	Sep. 20, 2025	Sep. 19, 2026
8	Magnetic Field Probe Tester	Narda	ELT-400	0-0344/M-1752	N/A	Sep. 25, 2025	Sep. 24, 2026
9	SHIELD BOX	TESCOM	TC-5970C	5970C015553	N/A	Dec. 18, 2025	Dec. 17, 2026
10	Wideband Radio Communication Test	R&S	CMW500	106504	V 3.7.22	Sep. 28, 2025	Sep. 27, 2026
11	MWRF Power Meter Test system	MW	MW100-RF CB	N/A	N/A	Sep. 19, 2025	Sep. 18, 2026
12	D.C. Power Supply	LongWei	TPR-6405 D	N/A	N/A	\	\
13	RF Software	MW	MTS8310	V2.0.0.0	N/A	\	\



4. EMC EMISSION TEST

4.1 Conducted emissions

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2020+Cor 1:2023
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

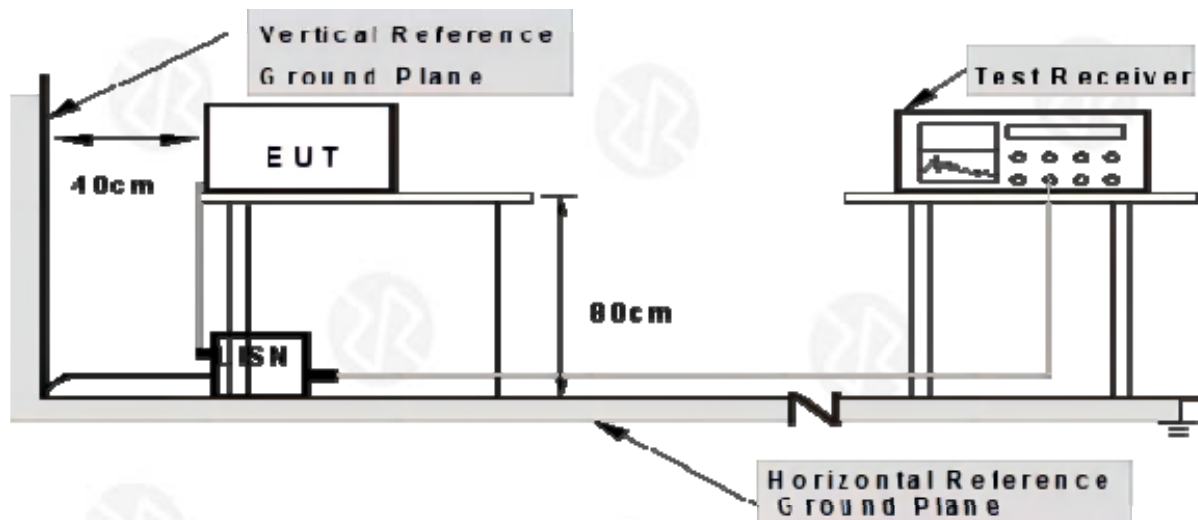
- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.4 TEST SETUP



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

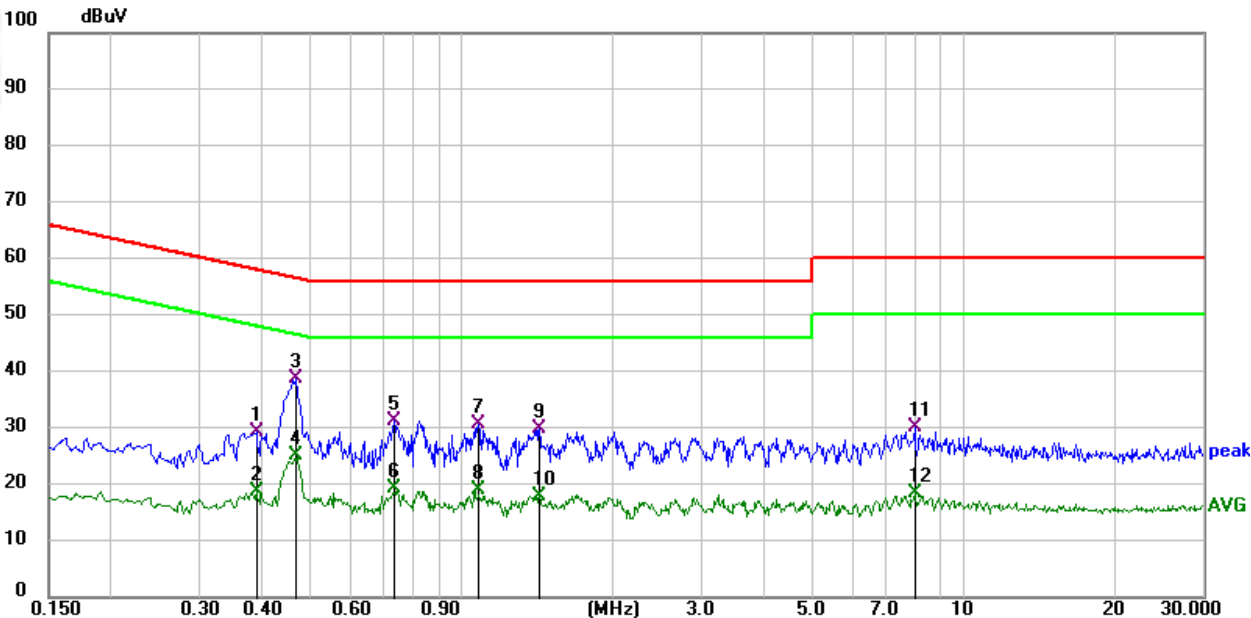
4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The 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

Temperature:	26.5°C	Relative Humidity:	61.3%
Pressure:	101 kPa	Polarization:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	8DPSK 2480MHz

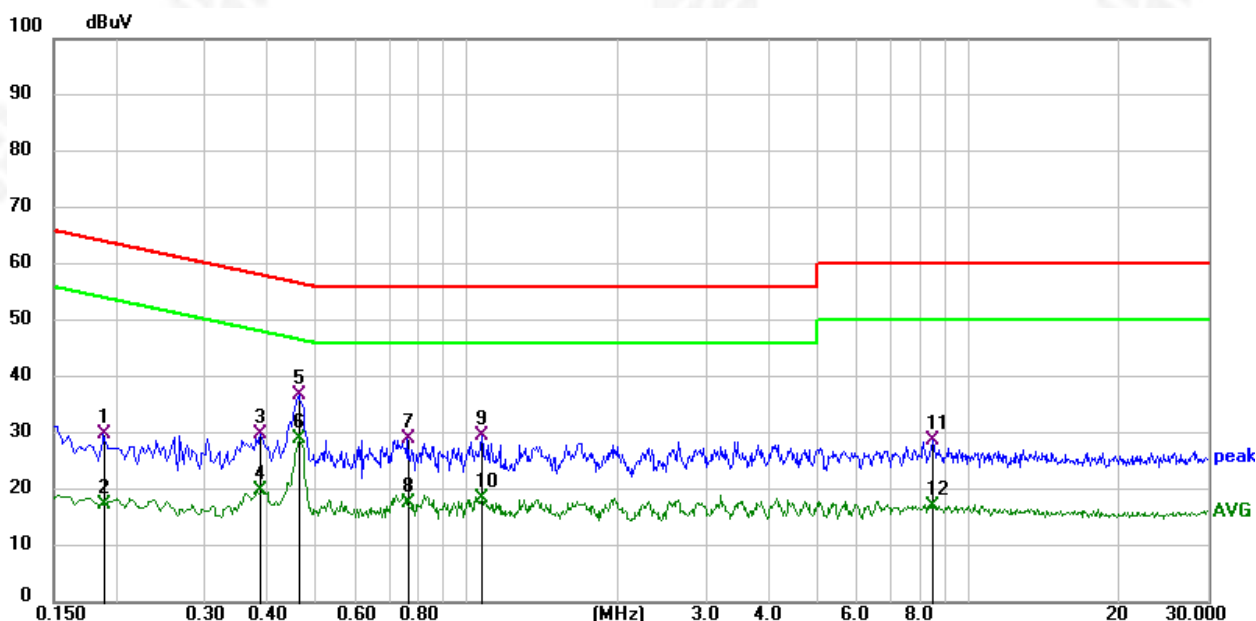


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.3899	9.83	19.38	29.21	58.07	-28.86	QP
2	0.3899	-0.54	19.38	18.84	48.07	-29.23	AVG
3	0.4660	19.23	19.39	38.62	56.58	-17.96	QP
4	0.4660	5.88	19.39	25.27	46.58	-21.31	AVG
5	0.7300	11.90	19.37	31.27	56.00	-24.73	QP
6	0.7300	-0.07	19.37	19.30	46.00	-26.70	AVG
7	1.0740	11.29	19.35	30.64	56.00	-25.36	QP
8	1.0740	-0.38	19.35	18.97	46.00	-27.03	AVG
9	1.4220	10.56	19.35	29.91	56.00	-26.09	QP
10	1.4220	-1.34	19.35	18.01	46.00	-27.99	AVG
11	7.9500	10.51	19.51	30.02	60.00	-29.98	QP
12	7.9500	-0.98	19.51	18.53	50.00	-31.47	AVG

Notes: All modes are tested. The report only shows data from the worst mode.
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.Measurement Level = Reading level + Correct Factor



Temperature:	26.5°C	Relative Humidity:	61.3%
Pressure:	101 kPa	Polarization:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	8DPSK 2480MHz



	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1900	10.35	19.38	29.73	64.04	-34.31	QP
2	0.1900	-2.10	19.38	17.28	54.04	-36.76	AVG
3	0.3899	10.48	19.36	29.84	58.07	-28.23	QP
4	0.3899	0.54	19.36	19.90	48.07	-28.17	AVG
5	0.4660	17.41	19.35	36.76	56.58	-19.82	QP
6	0.4660	9.58	19.35	28.93	46.58	-17.65	AVG
7	0.7660	9.73	19.41	29.14	56.00	-26.86	QP
8	0.7660	-1.82	19.41	17.59	46.00	-28.41	AVG
9	1.0740	10.09	19.39	29.48	56.00	-26.52	QP
10	1.0740	-0.85	19.39	18.54	46.00	-27.46	AVG
11	8.4900	9.08	19.56	28.64	60.00	-31.36	QP
12	8.4900	-2.59	19.56	16.97	50.00	-33.03	AVG

Notes: All modes are tested. The report only shows data from the worst mode.

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.Measurement Level = Reading level + Correct Factor



4.2 Radiated emissions

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020+Cor 1:2023				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	MX5Hz	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 (micровolts/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 chamber. 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:

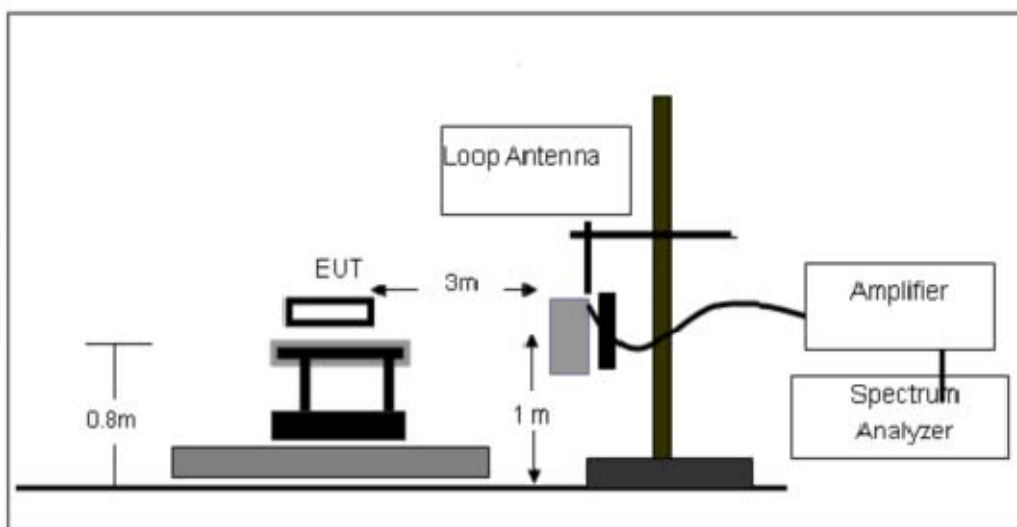
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

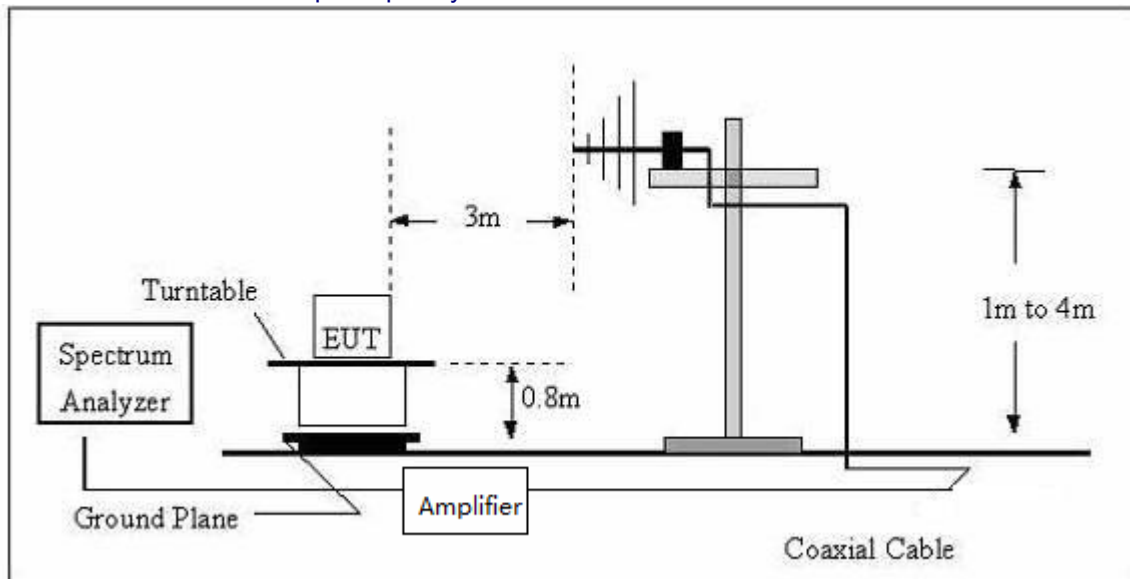
4.2.4 TEST SETUP

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

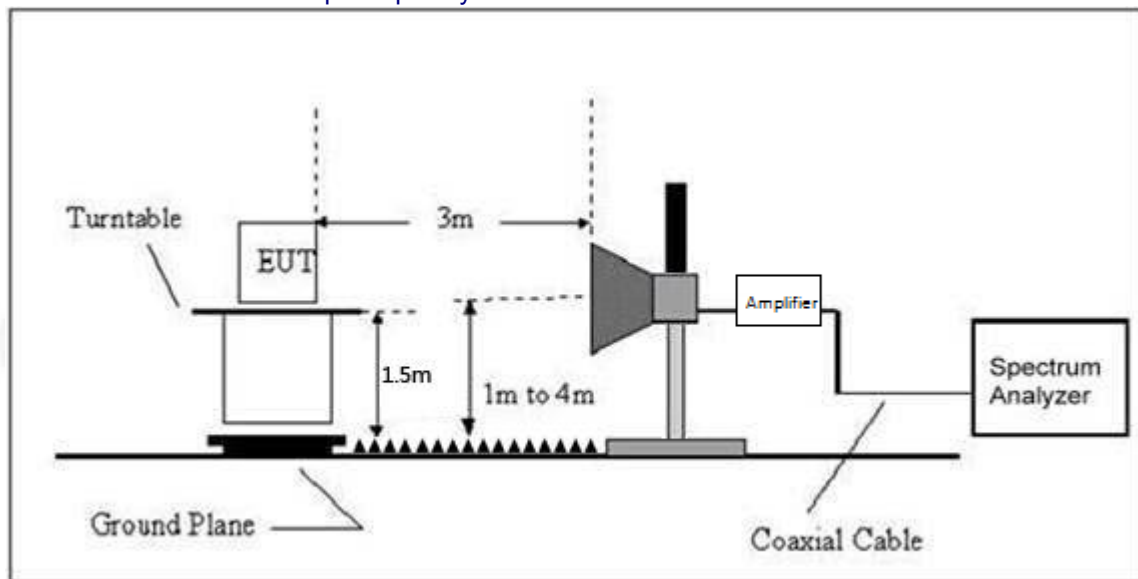




(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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



4.2.5 EUT OPERATING CONDITIONS

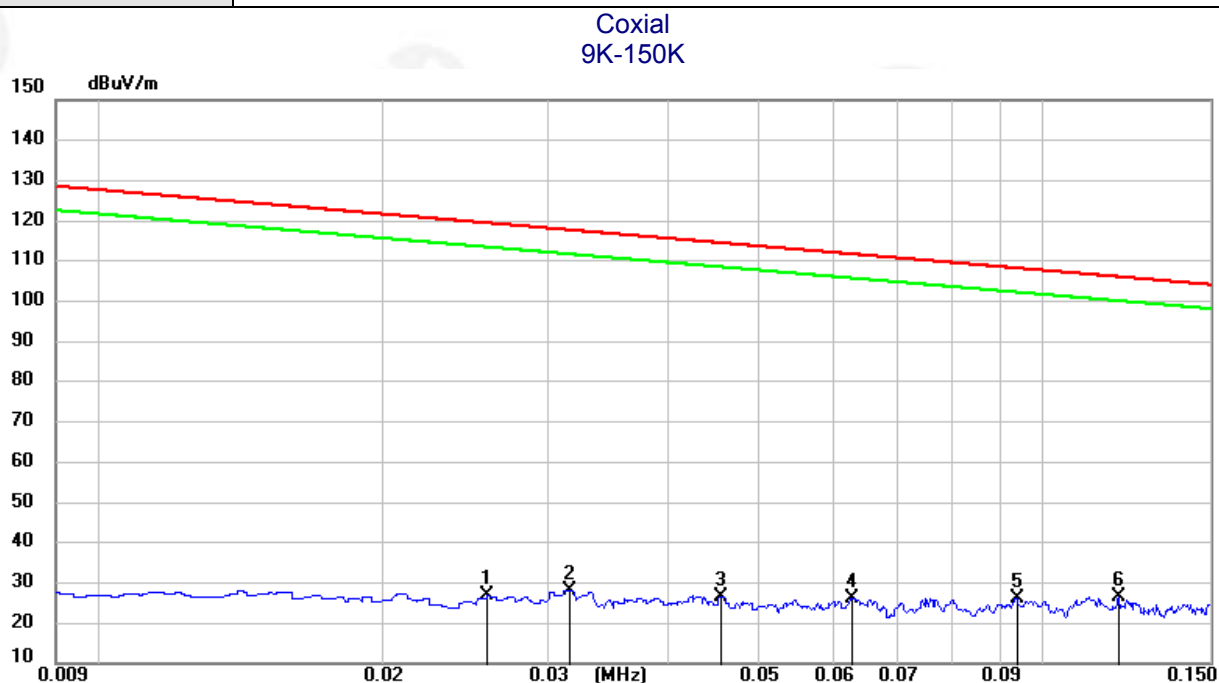
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.2.6 TEST RESULTS

Between 9KHz – 30MHz

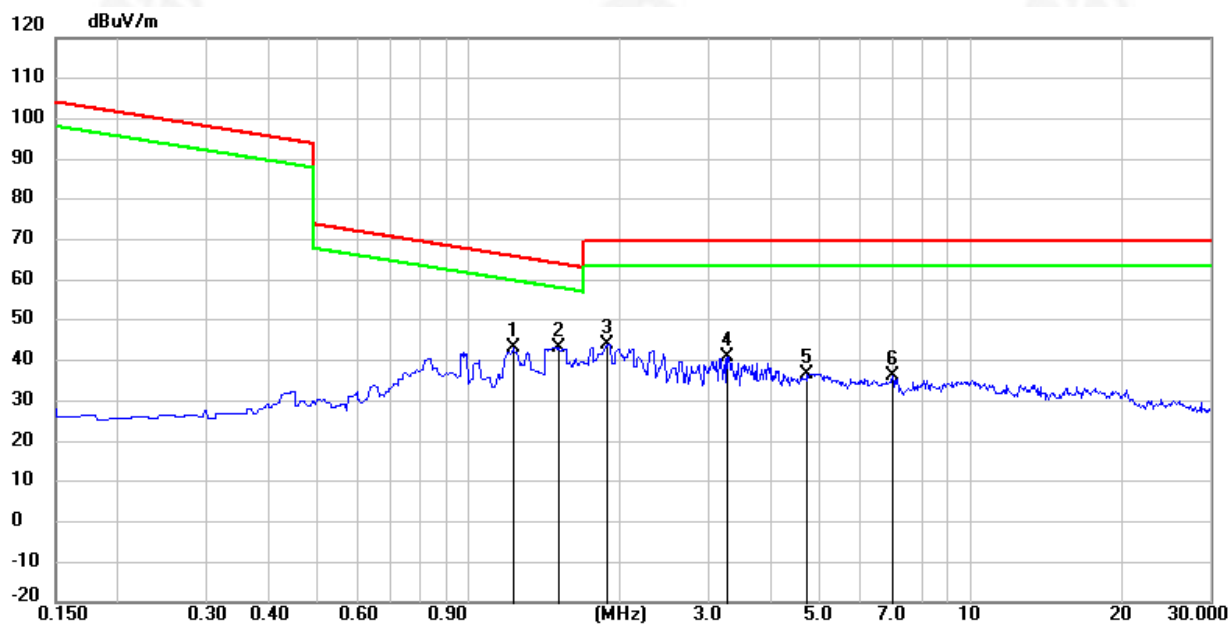
Temperature:	23.1°C	Relative Humidity:	62%
Test Voltage:	DC 3.7V	Polarization:	--
Test Mode:	TX Mode		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0257	6.96	19.99	26.95	119.41	-92.46	AVG
2	0.0314	8.23	19.87	28.10	117.67	-89.57	AVG
3	0.0456	6.87	19.59	26.46	114.43	-87.97	AVG
4	0.0627	7.17	19.14	26.31	111.66	-85.35	AVG
5	0.0936	8.31	17.90	26.21	108.18	-81.97	QP
6	0.1198	8.80	17.56	26.36	106.03	-79.67	AVG



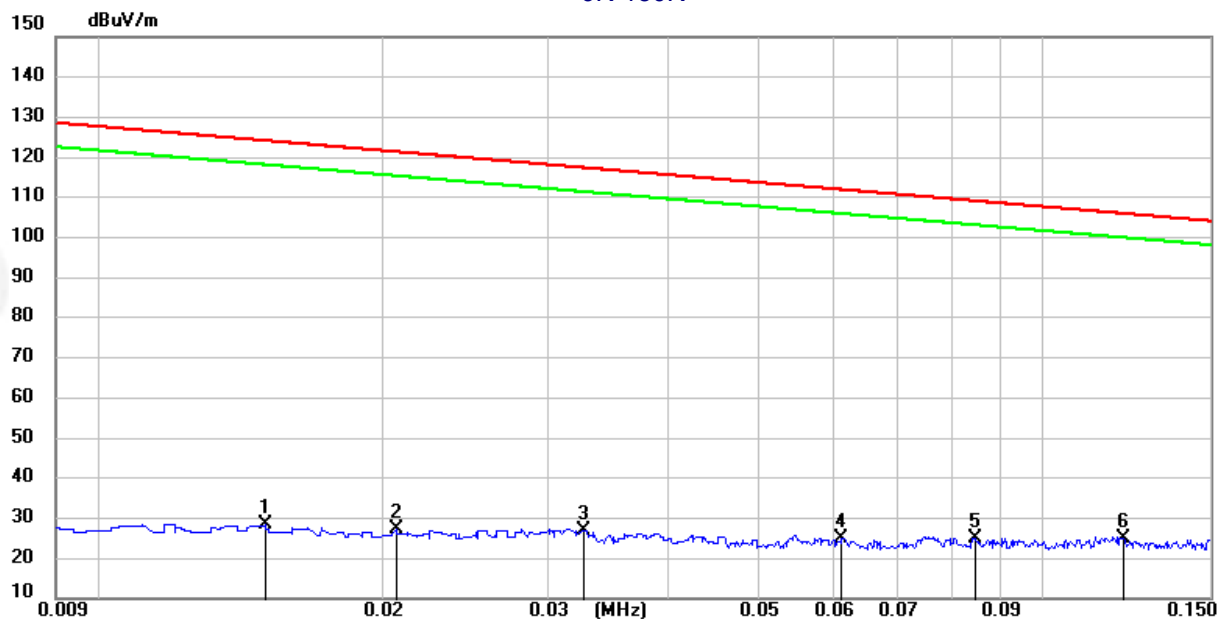
150K-30M



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1.2223	22.97	20.24	43.21	65.86	-22.65	QP
2	1.5112	22.94	20.30	43.24	64.02	-20.78	QP
3	1.8810	23.60	20.38	43.98	69.50	-25.52	QP
4	3.2755	20.59	20.18	40.77	69.50	-28.73	QP
5	4.7170	16.20	20.47	36.67	69.50	-32.83	QP
6	6.9855	15.63	20.38	36.01	69.50	-33.49	QP



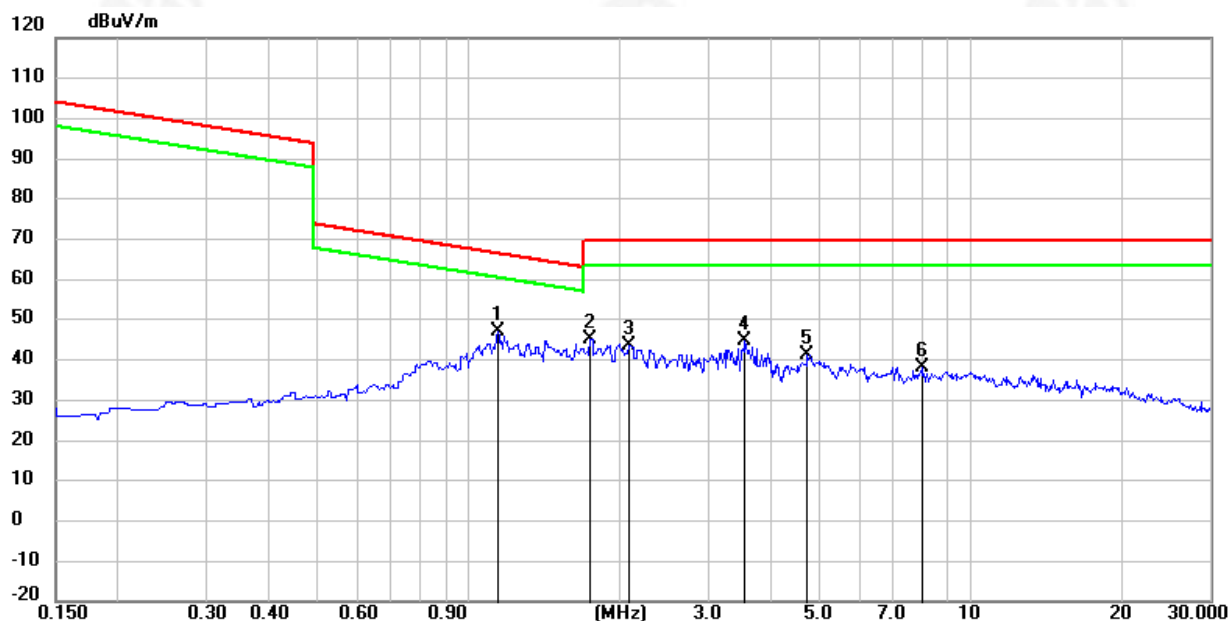
Coplanar
9K-150K



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.0150	8.60	19.74	28.34	124.08	-95.74	AVG
2	0.0206	7.09	20.09	27.18	121.33	-94.15	AVG
3	0.0325	7.22	19.85	27.07	117.37	-90.30	AVG
4	0.0611	5.78	19.19	24.97	111.88	-86.91	AVG
5	0.0844	6.63	18.34	24.97	109.08	-84.11	AVG
6	0.1212	7.59	17.56	25.15	105.93	-80.78	AVG



150K-30M



Note:

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

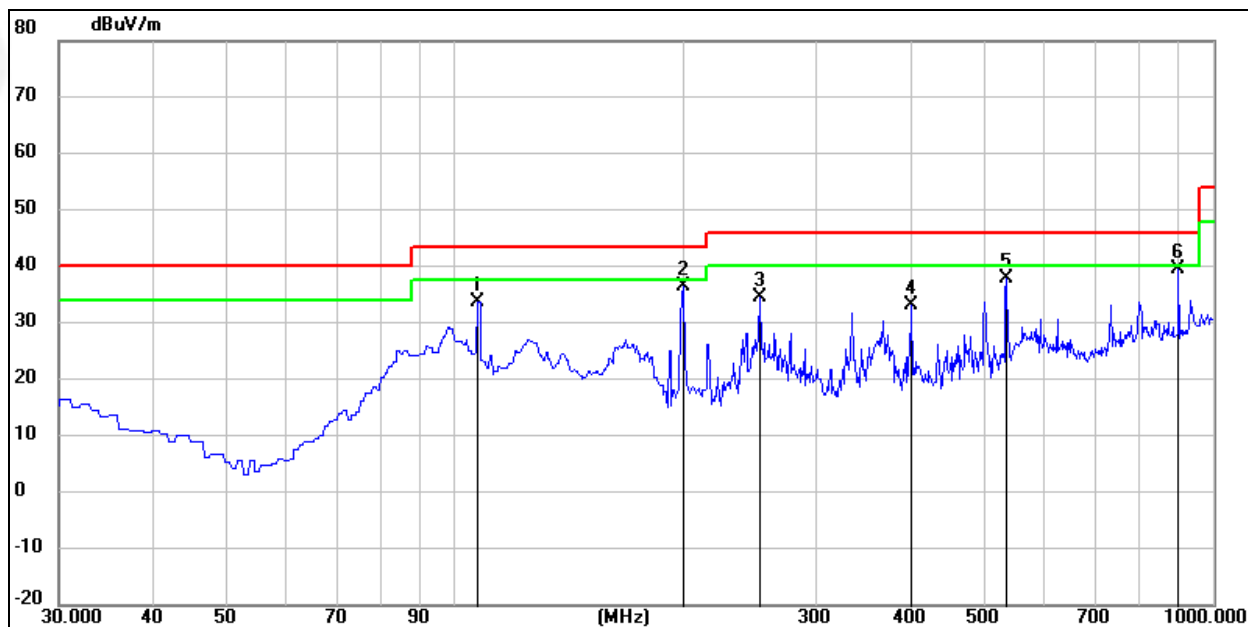
Limit line = specific limits (dBuV) + distance extrapolation factor.

The test data shows only the worst case 8DPSK 2480MHz mode



Between 30MHz – 1GHz

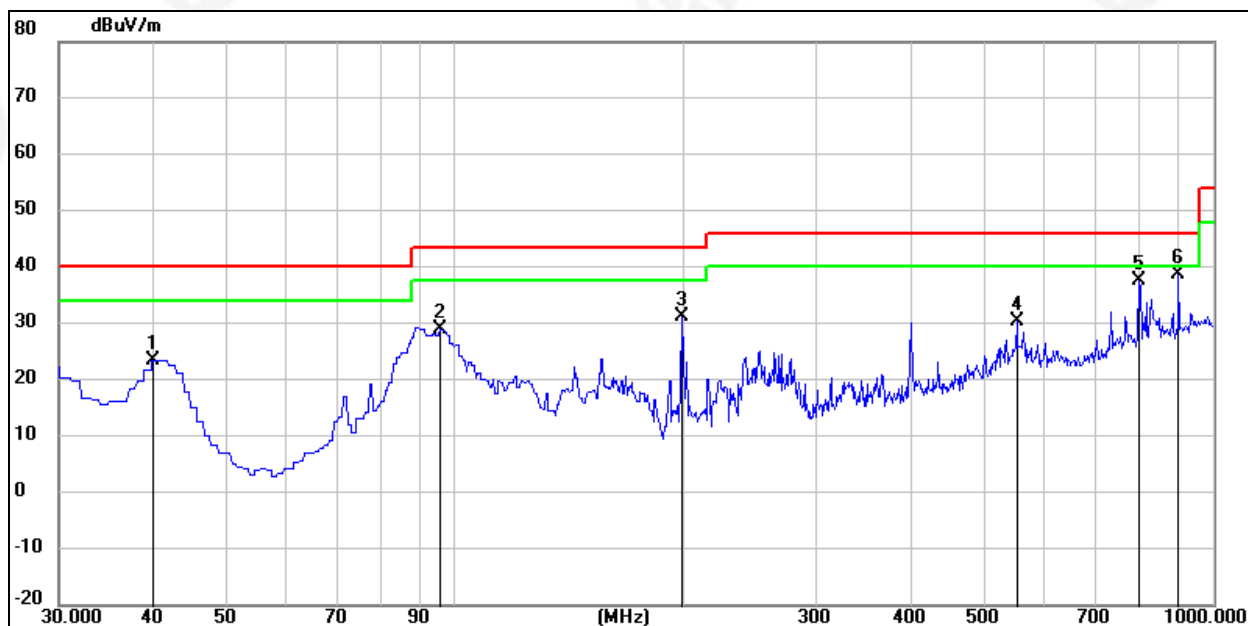
Temperature:	23.6°C	Relative Humidity:	57%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	DC 3.7V	Test Mode :	8DPSK 2480MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	107.1337	53.18	-19.38	33.80	43.50	-9.70	QP
2	199.7500	57.74	-21.11	36.63	43.50	-6.87	QP
3	252.0627	50.51	-15.81	34.70	46.00	-11.30	QP
4	399.5700	44.23	-11.16	33.07	46.00	-12.93	QP
5	532.4600	45.28	-7.31	37.97	46.00	-8.03	QP
6	898.1500	40.15	-0.49	39.66	46.00	-6.34	QP



Temperature:	23.7°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	DC 3.7V	Test Mode :	8DPSK 2480MHz



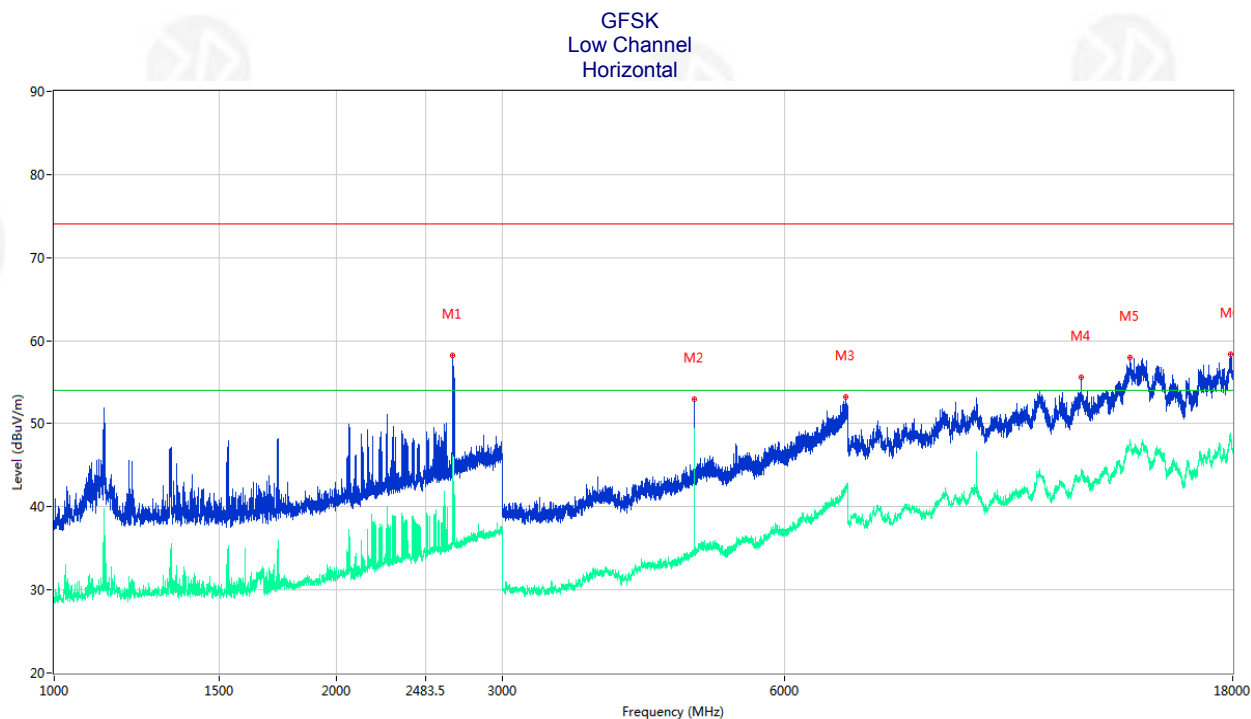
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	39.9942	41.45	-18.04	23.41	40.00	-16.59	QP
2	95.4270	49.79	-20.73	29.06	43.50	-14.44	QP
3	198.5880	52.28	-21.12	31.16	43.50	-12.34	QP
4	549.9200	36.28	-5.78	30.50	46.00	-15.50	QP
5	798.2400	39.58	-2.03	37.55	46.00	-8.45	QP
6	898.1500	39.26	-0.49	38.77	46.00	-7.23	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.
- 3.The test data shows only the worst case 8DPSK 2402MHz mode



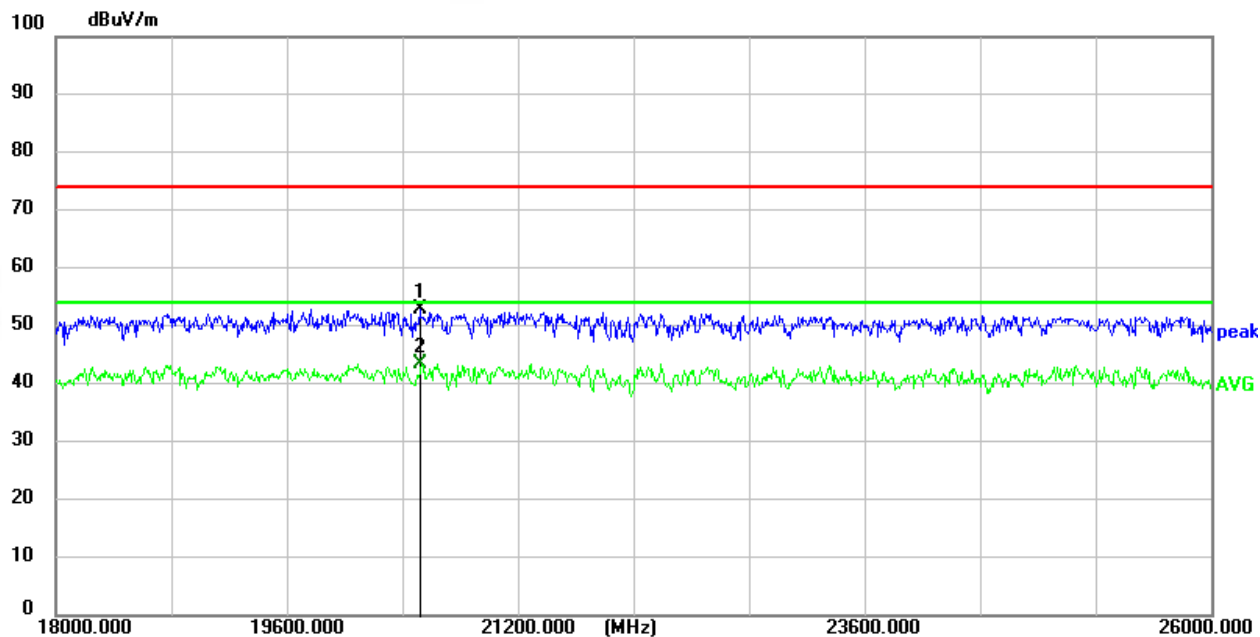
1GHz~25GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2657.000	58.27	3.98	74.0	-15.73	Peak	136.00	Horizontal	Pass
1**	2657.000	46.19	3.98	54.0	-7.81	AV	136.00	Horizontal	Pass
2	4804.000	52.93	-7.11	74.0	-21.07	Peak	211.90	Horizontal	Pass
2**	4804.000	49.42	-7.11	54.0	-4.58	AV	211.90	Horizontal	Pass
3	6969.000	53.18	1.07	74.0	-20.82	Peak	341.70	Horizontal	Pass
3**	6969.000	42.07	1.07	54.0	-11.93	AV	341.70	Horizontal	Pass
4	12412.000	55.55	3.06	74.0	-18.45	Peak	218.20	Horizontal	Pass
4**	12412.000	44.37	3.06	54.0	-9.63	AV	218.20	Horizontal	Pass
5	14001.500	58.01	8.43	74.0	-15.99	Peak	142.70	Horizontal	Pass
5**	14001.500	47.83	8.43	54.0	-6.17	AV	142.70	Horizontal	Pass
6	17890.001	58.40	7.15	74.0	-15.60	Peak	222.30	Horizontal	Pass
6**	17890.001	48.36	7.15	54.0	-5.64	AV	222.30	Horizontal	Pass



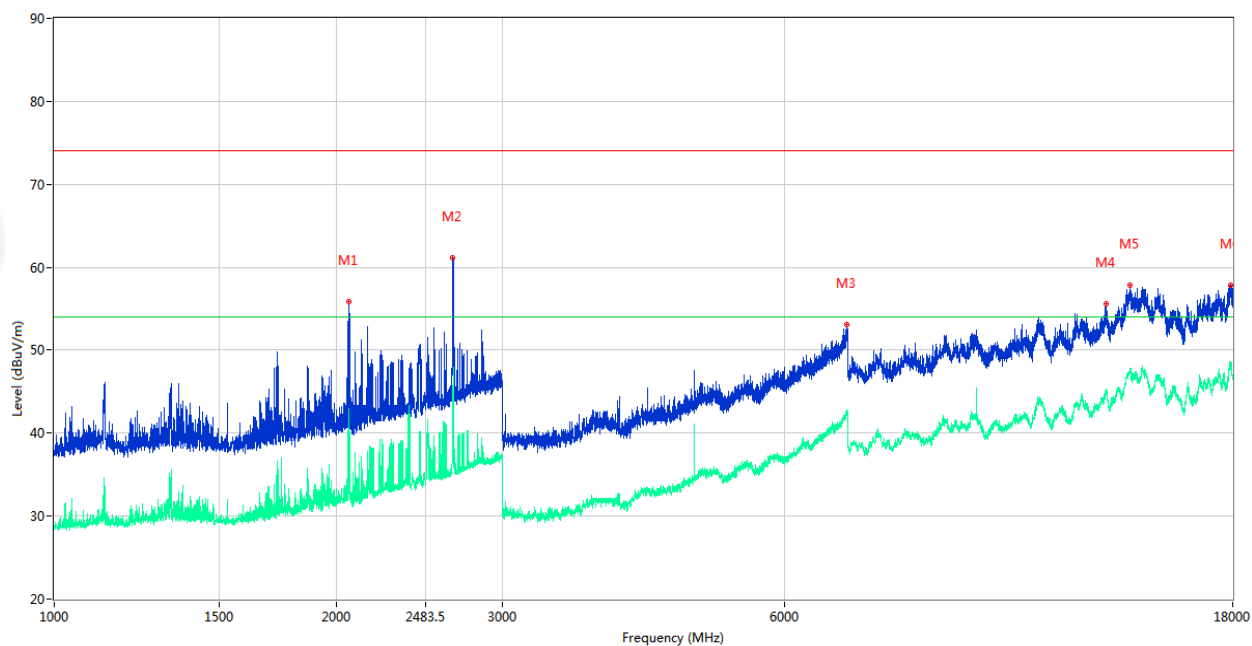
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20520.0000	50.56	2.24	52.80	74.00	-21.20	peak	Pass
2 *	20520.0000	41.21	2.24	43.45	54.00	-10.55	AVG	Pass



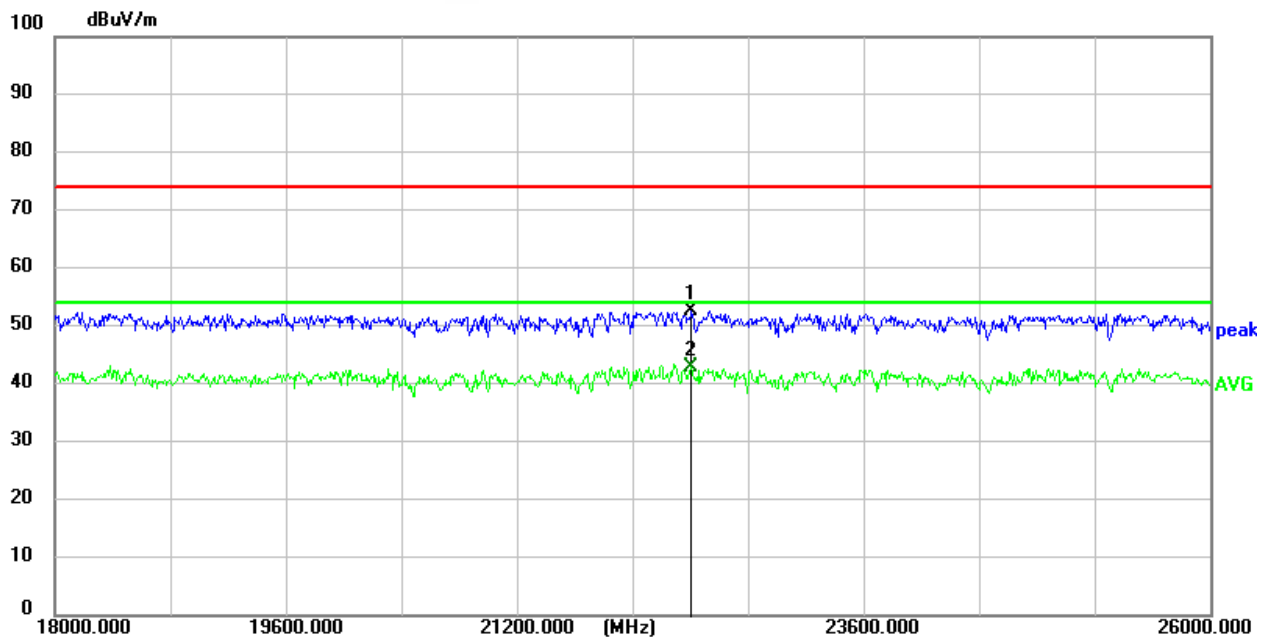
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2059.000	55.88	0.82	74.0	-18.12	Peak	104.30	Vertical	Pass
1**	2059.000	42.92	0.82	54.0	-11.08	AV	104.30	Vertical	Pass
2	2657.500	61.07	3.98	74.0	-12.93	Peak	305.60	Vertical	Pass
2**	2657.500	45.75	3.98	54.0	-8.25	AV	305.60	Vertical	Pass
3	6991.000	53.07	1.25	74.0	-20.93	Peak	28.30	Vertical	Pass
3**	6991.000	42.59	1.25	54.0	-11.41	AV	28.30	Vertical	Pass
4	13184.750	55.65	5.29	74.0	-18.35	Peak	282.20	Vertical	Pass
4**	13184.750	45.25	5.29	54.0	-8.75	AV	282.20	Vertical	Pass
5	13996.000	57.79	8.40	74.0	-16.21	Peak	131.90	Vertical	Pass
5**	13996.000	47.69	8.40	54.0	-6.31	AV	131.90	Vertical	Pass
6	17917.499	57.88	7.11	74.0	-16.12	Peak	184.00	Vertical	Pass
6**	17917.499	47.95	7.11	54.0	-6.05	AV	184.00	Vertical	Pass



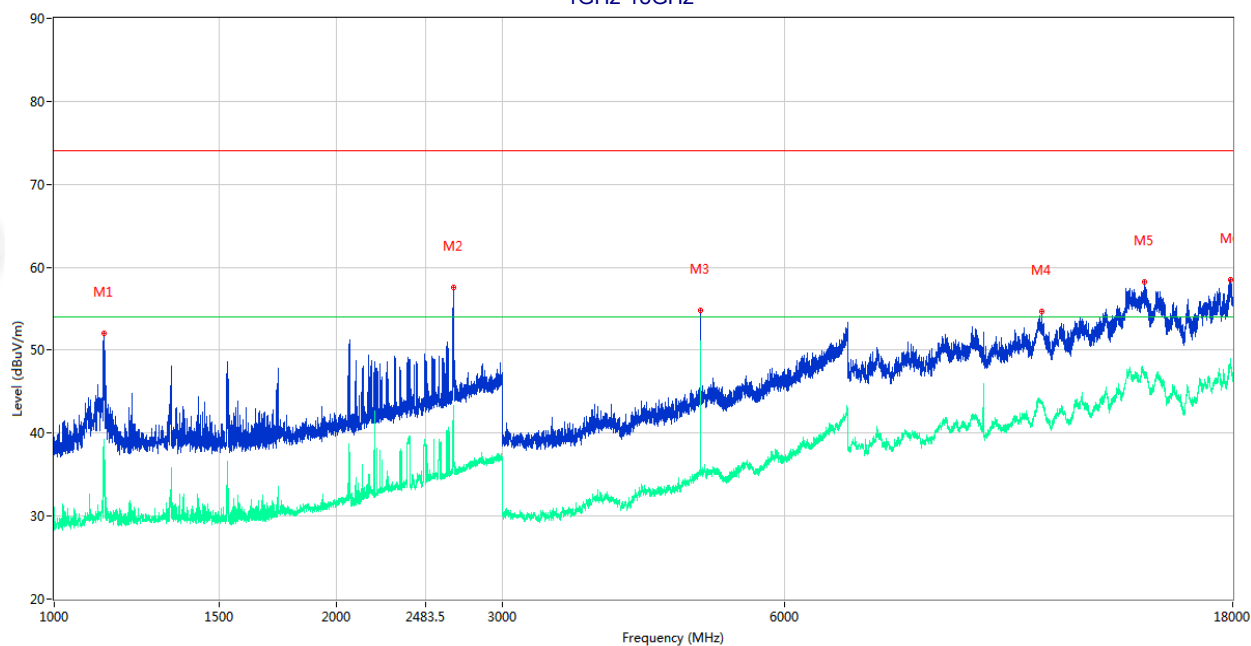
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22408.0000	48.85	3.83	52.68	74.00	-21.32	peak	Pass
2 *	22408.0000	39.08	3.83	42.91	54.00	-11.09	AVG	Pass



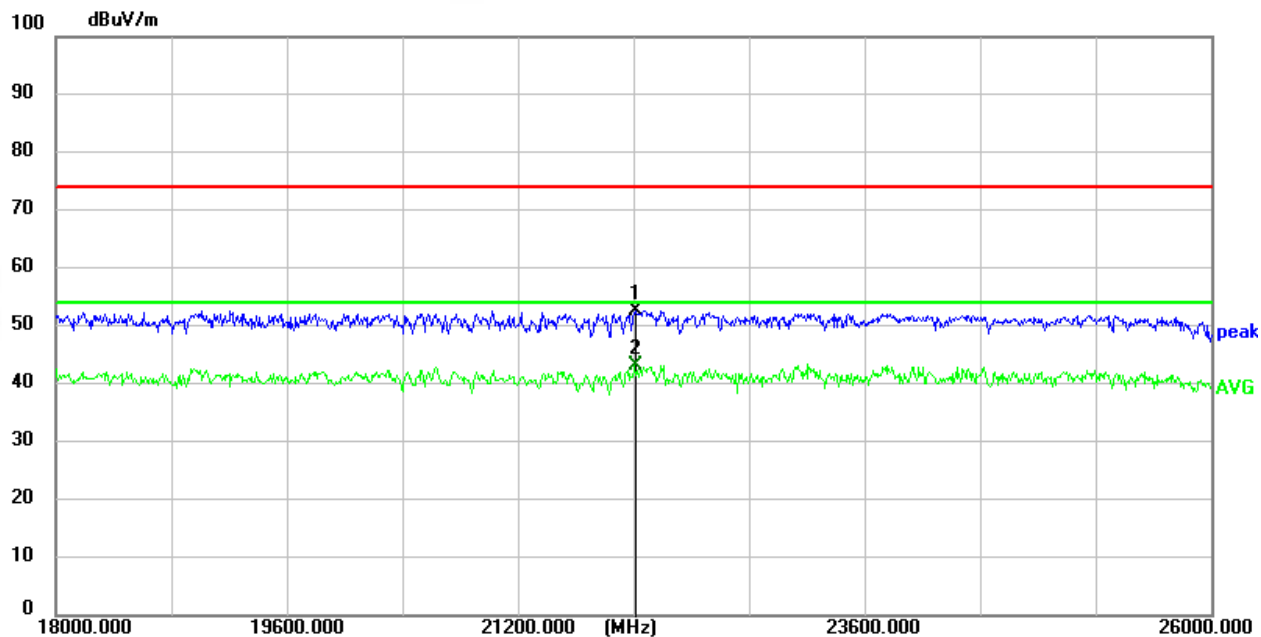
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	1128.500	52.03	-1.71	74.0	-21.97	Peak	232.40	Horizontal	Pass
1**	1128.500	39.28	-1.71	54.0	-14.72	AV	232.40	Horizontal	Pass
2	2661.000	57.62	3.98	74.0	-16.38	Peak	140.80	Horizontal	Pass
2**	2661.000	43.34	3.98	54.0	-10.66	AV	140.80	Horizontal	Pass
3	4882.000	54.84	-6.26	74.0	-19.16	Peak	207.80	Horizontal	Pass
3**	4882.000	51.16	-6.26	54.0	-2.84	AV	207.80	Horizontal	Pass
4	11265.250	54.69	2.40	74.0	-19.31	Peak	355.30	Horizontal	Pass
4**	11265.250	43.47	2.40	54.0	-10.53	AV	355.30	Horizontal	Pass
5	14496.500	58.19	6.30	74.0	-15.81	Peak	124.40	Horizontal	Pass
5**	14496.500	47.25	6.30	54.0	-6.75	AV	124.40	Horizontal	Pass
6	17914.751	58.50	7.13	74.0	-15.50	Peak	333.90	Horizontal	Pass
6**	17914.751	48.84	7.13	54.0	-5.16	AV	333.90	Horizontal	Pass



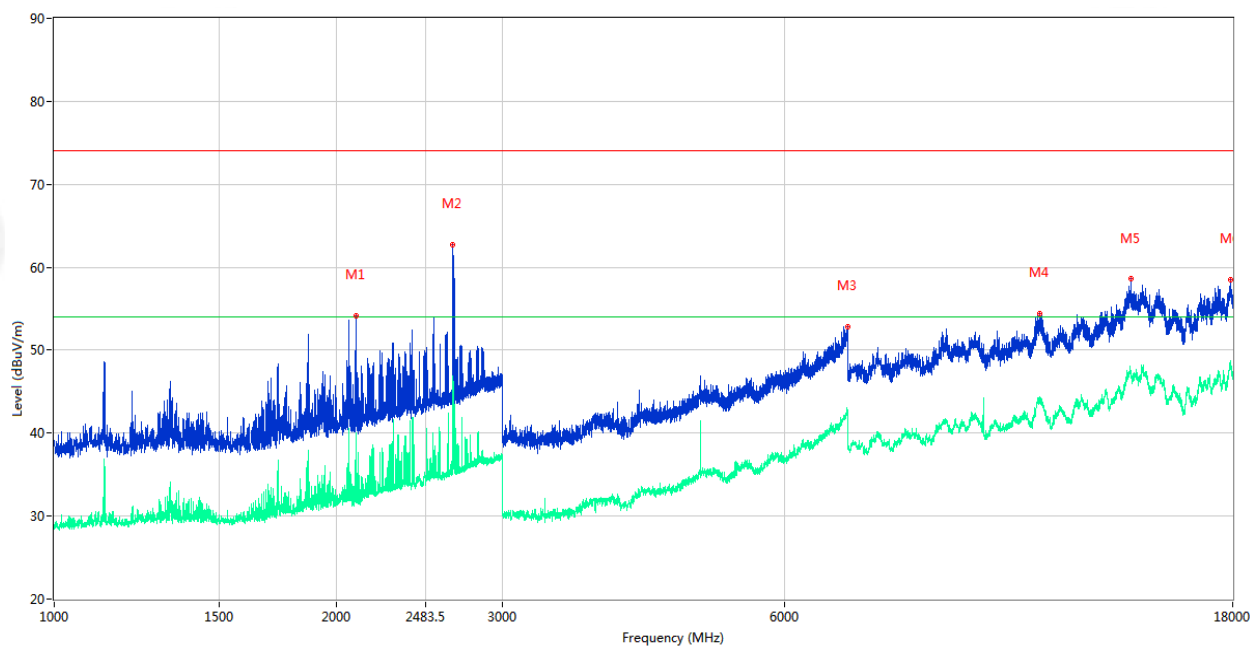
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22016.0000	49.25	3.42	52.67	74.00	-21.33	peak	Pass
2 *	22016.0000	39.89	3.42	43.31	54.00	-10.69	AVG	Pass



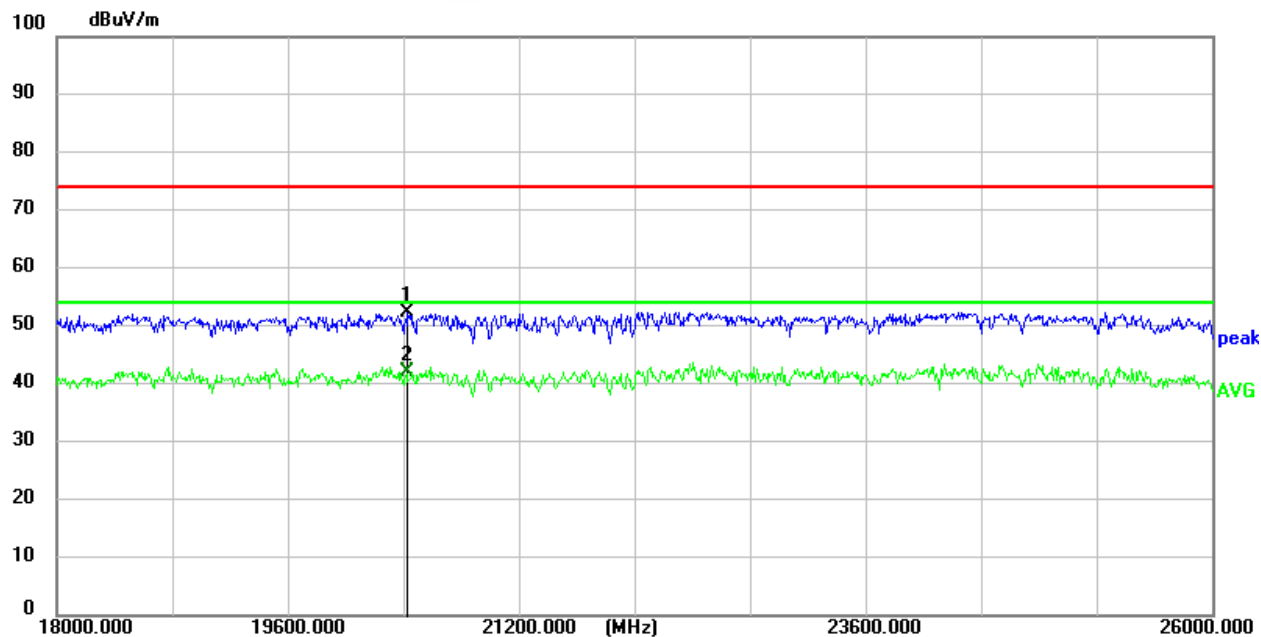
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2098.500	54.10	0.87	74.0	-19.90	Peak	105.90	Vertical	Pass
1**	2098.500	39.98	0.87	54.0	-14.02	AV	105.90	Vertical	Pass
2	2655.000	62.66	3.98	74.0	-11.34	Peak	101.50	Vertical	Pass
2**	2655.000	46.84	3.98	54.0	-7.16	AV	101.50	Vertical	Pass
3	7000.000	52.78	1.32	74.0	-21.22	Peak	359.50	Vertical	Pass
3**	7000.000	42.61	1.32	54.0	-11.39	AV	359.50	Vertical	Pass
4	11210.250	54.35	2.59	74.0	-19.65	Peak	183.30	Vertical	Pass
4**	11210.250	43.83	2.59	54.0	-10.17	AV	183.30	Vertical	Pass
5	14015.250	58.57	8.21	74.0	-15.43	Peak	115.20	Vertical	Pass
5**	14015.250	46.87	8.21	54.0	-7.13	AV	115.20	Vertical	Pass
6	17901.001	58.55	7.23	74.0	-15.45	Peak	144.60	Vertical	Pass
6**	17901.001	48.34	7.23	54.0	-5.66	AV	144.60	Vertical	Pass



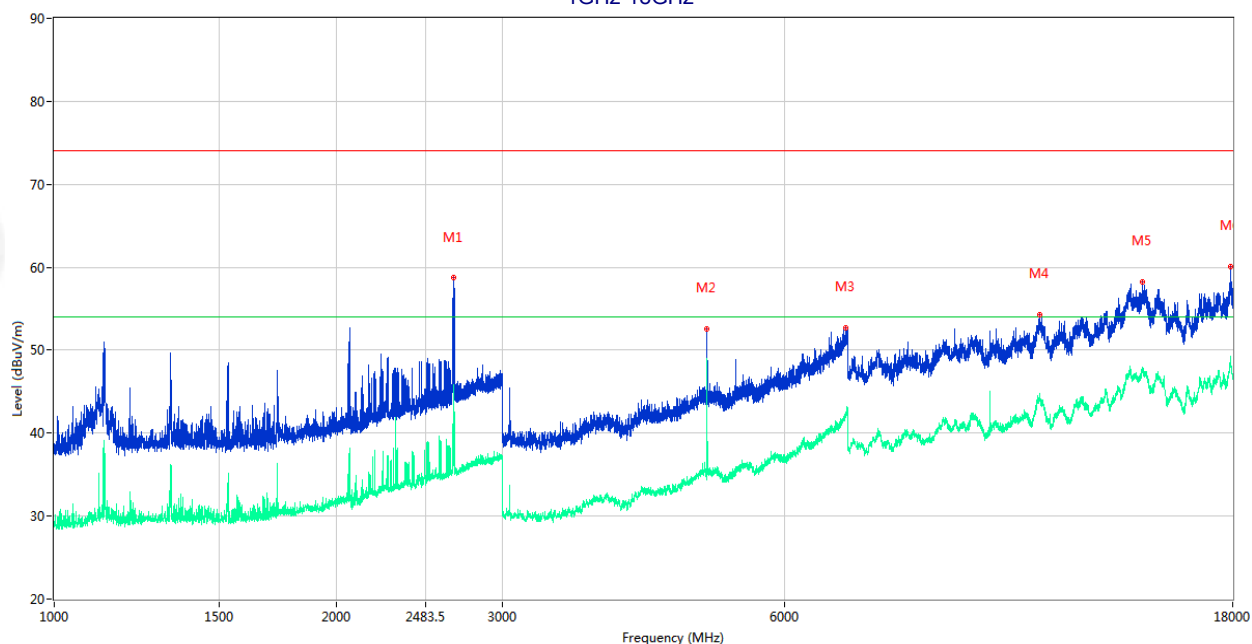
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20432.0000	50.07	2.18	52.25	74.00	-21.75	peak	Pass
2 *	20432.0000	39.93	2.18	42.11	54.00	-11.89	AVG	Pass



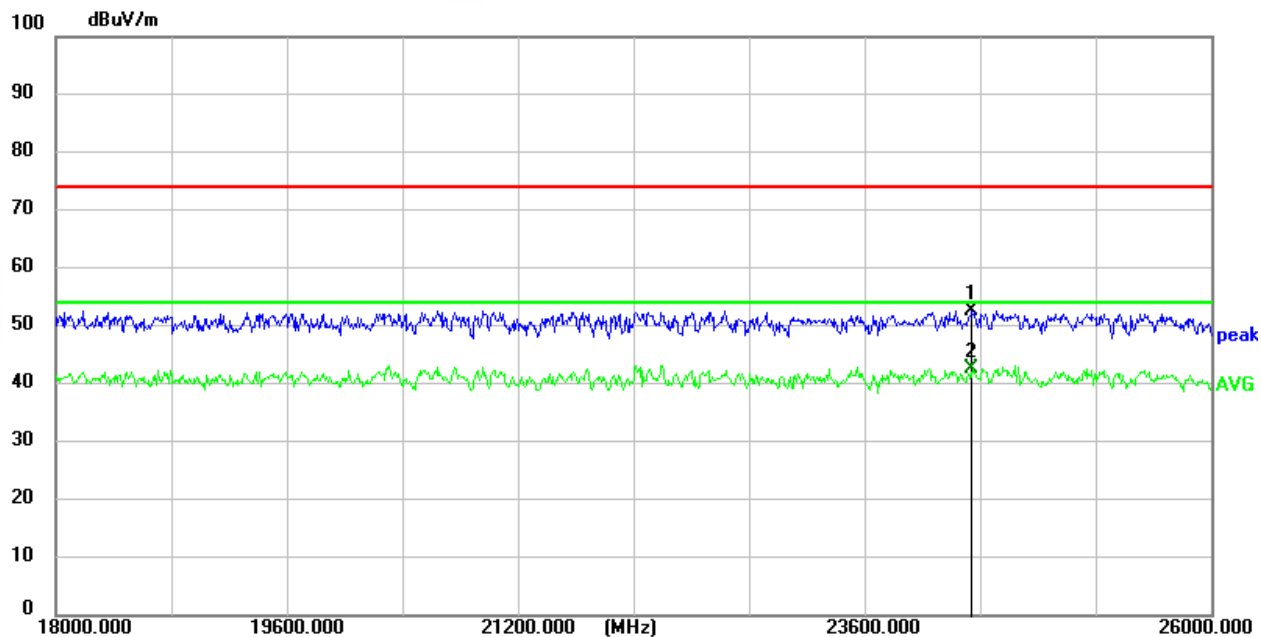
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2664.500	58.70	3.98	74.0	-15.30	Peak	135.30	Horizontal	Pass
1**	2664.500	45.84	3.98	54.0	-8.16	AV	135.30	Horizontal	Pass
2	4960.000	52.62	-5.99	74.0	-21.38	Peak	197.90	Horizontal	Pass
2**	4960.000	49.01	-5.99	54.0	-4.99	AV	197.90	Horizontal	Pass
3	6973.000	52.69	1.10	74.0	-21.31	Peak	74.60	Horizontal	Pass
3**	6973.000	42.43	1.10	54.0	-11.57	AV	74.60	Horizontal	Pass
4	11226.750	54.25	2.53	74.0	-19.75	Peak	253.20	Horizontal	Pass
4**	11226.750	44.43	2.53	54.0	-9.57	AV	253.20	Horizontal	Pass
5	14419.500	58.21	6.85	74.0	-15.79	Peak	50.00	Horizontal	Pass
5**	14419.500	47.72	6.85	54.0	-6.28	AV	50.00	Horizontal	Pass
6	17909.250	60.05	7.17	74.0	-13.95	Peak	75.30	Horizontal	Pass
6**	17909.250	49.24	7.17	54.0	-4.76	AV	75.30	Horizontal	Pass



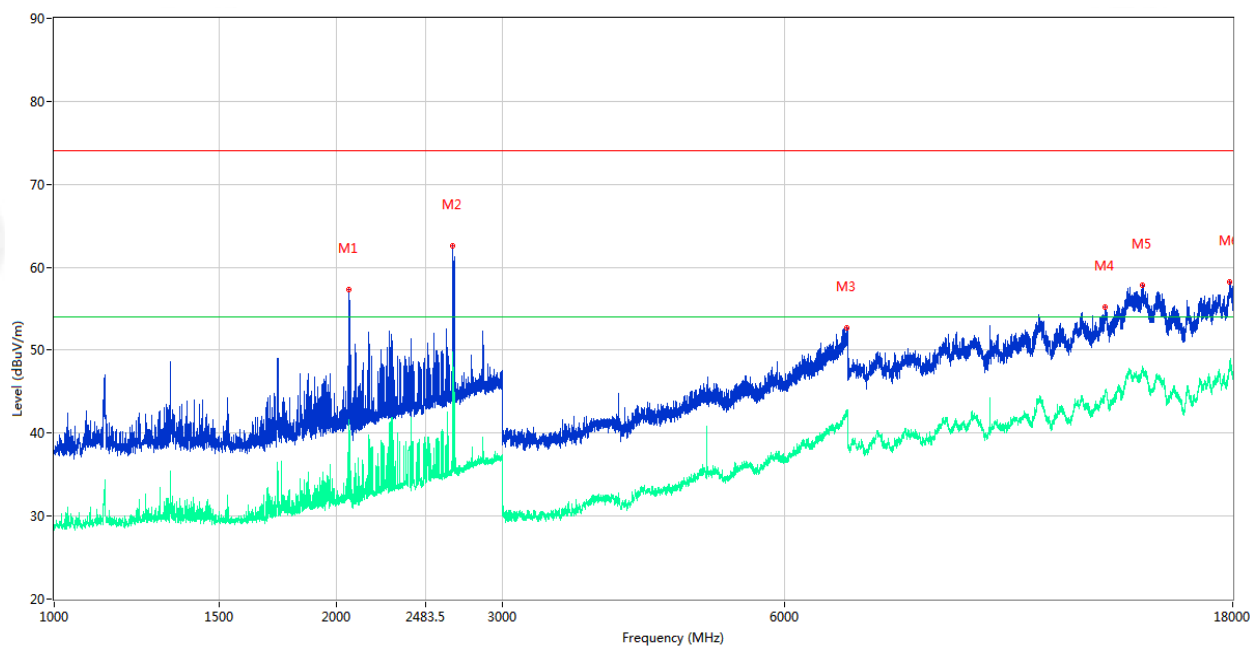
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	24344.0000	48.04	4.69	52.73	74.00	-21.27	peak	Pass
2 *	24344.0000	37.88	4.69	42.57	54.00	-11.43	AVG	Pass



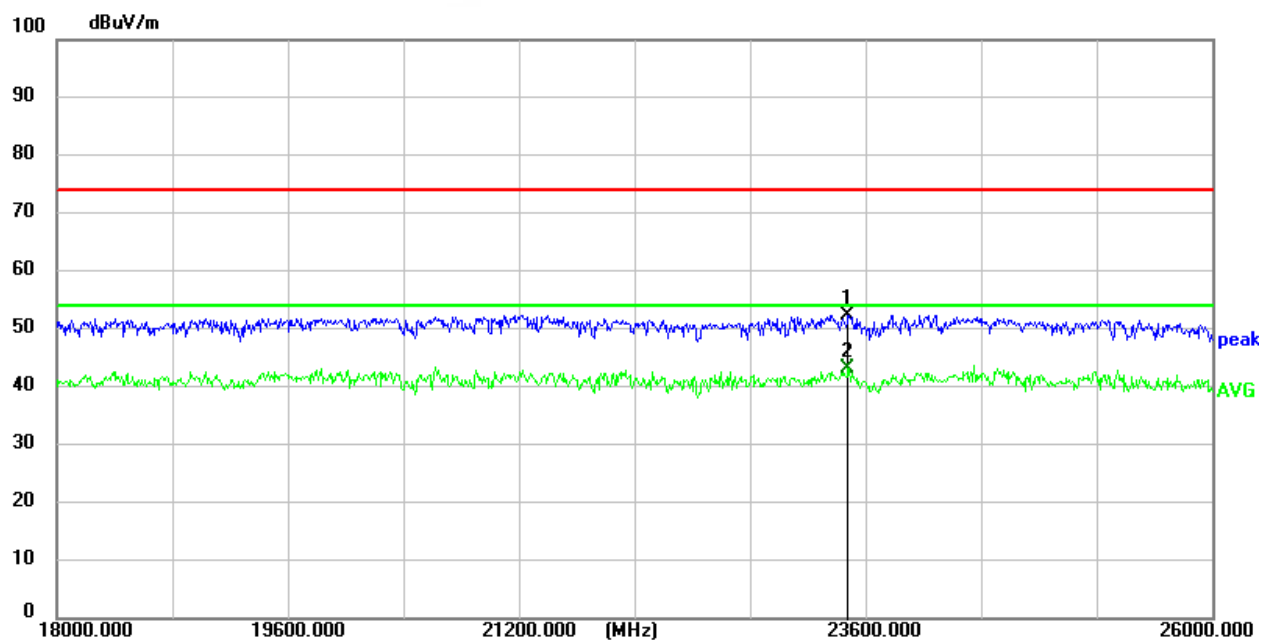
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2060.000	57.25	0.83	74.0	-16.75	Peak	109.60	Vertical	Pass
1**	2060.000	40.34	0.83	54.0	-13.66	AV	109.60	Vertical	Pass
2	2657.000	62.58	3.98	74.0	-11.42	Peak	100.70	Vertical	Pass
2**	2657.000	49.76	3.98	54.0	-4.24	AV	100.70	Vertical	Pass
3	6981.000	52.72	1.17	74.0	-21.28	Peak	360.00	Vertical	Pass
3**	6981.000	42.50	1.17	54.0	-11.50	AV	360.00	Vertical	Pass
4	13154.500	55.20	5.00	74.0	-18.80	Peak	39.30	Vertical	Pass
4**	13154.500	45.24	5.00	54.0	-8.76	AV	39.30	Vertical	Pass
5	14408.500	57.89	6.93	74.0	-16.11	Peak	340.80	Vertical	Pass
5**	14408.500	47.96	6.93	54.0	-6.04	AV	340.80	Vertical	Pass
6	17856.999	58.21	6.87	74.0	-15.79	Peak	358.50	Vertical	Pass
6**	17856.999	47.79	6.87	54.0	-6.21	AV	358.50	Vertical	Pass



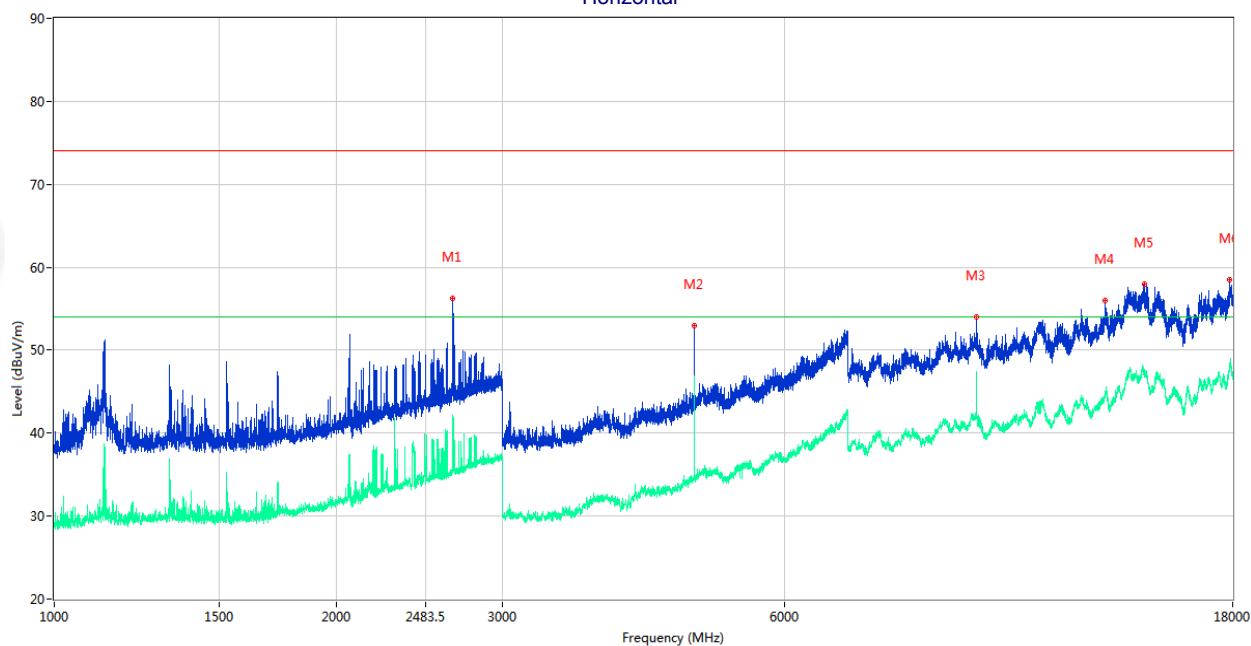
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	23480.0000	48.37	4.12	52.49	74.00	-21.51	peak	Pass
2 *	23480.0000	39.21	4.12	43.33	54.00	-10.67	AVG	Pass



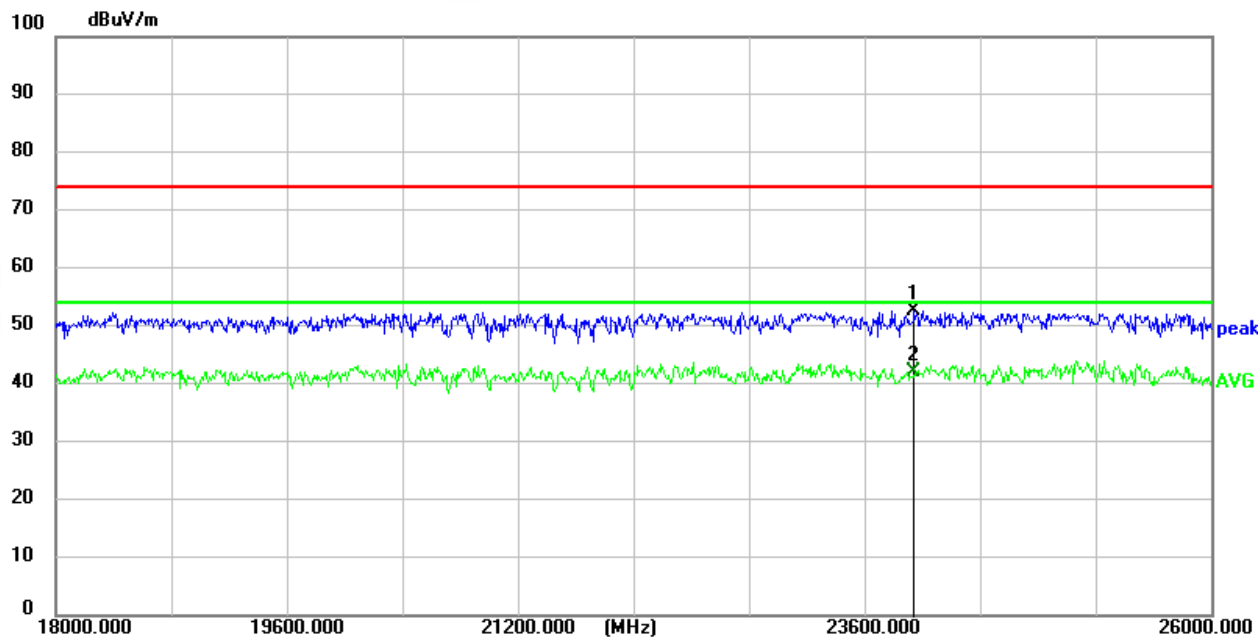
$\pi/4$ -DQPSK
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2654.500	56.29	3.98	74.0	-17.71	Peak	146.50	Horizontal	Pass
1**	2654.500	42.09	3.98	54.0	-11.91	AV	146.50	Horizontal	Pass
2	4804.000	52.94	-7.11	74.0	-21.06	Peak	209.60	Horizontal	Pass
2**	4804.000	46.95	-7.11	54.0	-7.05	AV	209.60	Horizontal	Pass
3	9607.000	54.07	0.57	74.0	-19.93	Peak	182.10	Horizontal	Pass
3**	9607.000	47.44	0.57	54.0	-6.56	AV	182.10	Horizontal	Pass
4	13162.750	55.94	5.08	74.0	-18.06	Peak	318.10	Horizontal	Pass
4**	13162.750	44.44	5.08	54.0	-9.56	AV	318.10	Horizontal	Pass
5	14493.750	57.98	6.32	74.0	-16.02	Peak	254.90	Horizontal	Pass
5**	14493.750	47.25	6.32	54.0	-6.75	AV	254.90	Horizontal	Pass
6	17862.500	58.46	6.92	74.0	-15.54	Peak	359.50	Horizontal	Pass
6**	17862.500	47.50	6.92	54.0	-6.50	AV	359.50	Horizontal	Pass



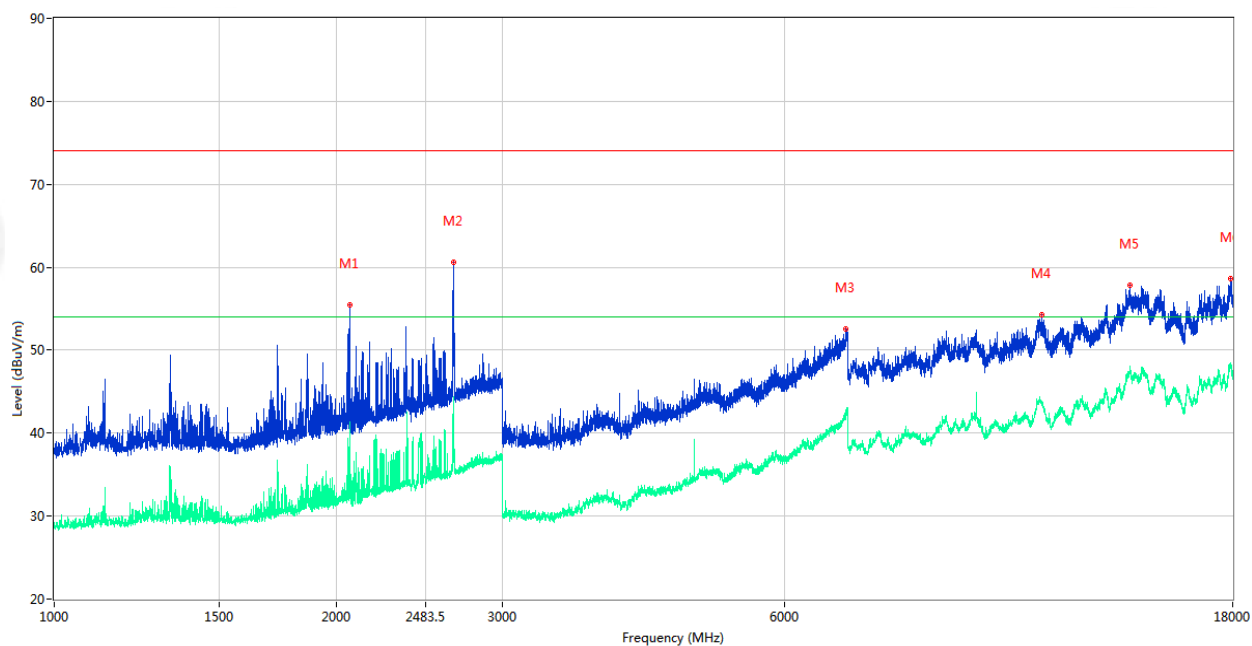
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	23944.0000	48.03	4.57	52.60	74.00	-21.40	peak	Pass
2 *	23944.0000	37.44	4.57	42.01	54.00	-11.99	AVG	Pass



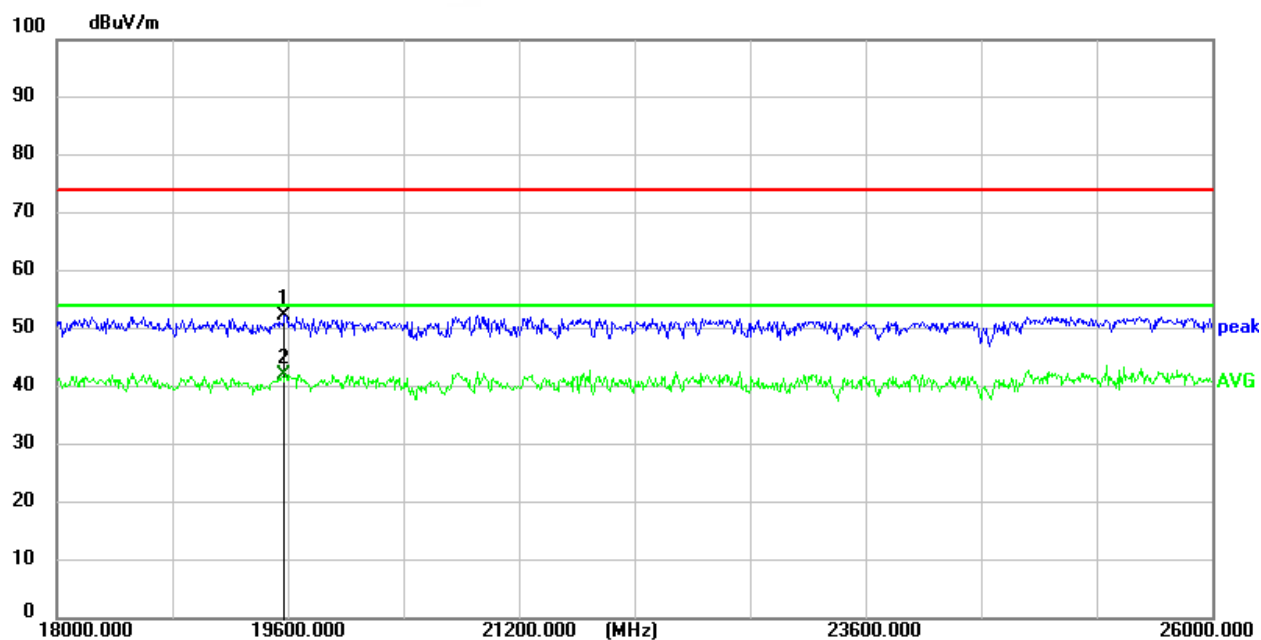
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2064.500	55.50	0.83	74.0	-18.50	Peak	102.50	Vertical	Pass
1**	2064.500	41.35	0.83	54.0	-12.65	AV	102.50	Vertical	Pass
2	2661.500	60.63	3.98	74.0	-13.37	Peak	305.30	Vertical	Pass
2**	2661.500	44.34	3.98	54.0	-9.66	AV	305.30	Vertical	Pass
3	6975.000	52.61	1.12	74.0	-21.39	Peak	113.70	Vertical	Pass
3**	6975.000	42.28	1.12	54.0	-11.72	AV	113.70	Vertical	Pass
4	11262.500	54.32	2.41	74.0	-19.68	Peak	188.50	Vertical	Pass
4**	11262.500	43.65	2.41	54.0	-10.35	AV	188.50	Vertical	Pass
5	13982.250	57.88	8.23	74.0	-16.12	Peak	7.80	Vertical	Pass
5**	13982.250	47.21	8.23	54.0	-6.79	AV	7.80	Vertical	Pass
6	17898.250	58.67	7.22	74.0	-15.33	Peak	253.90	Vertical	Pass
6**	17898.250	48.44	7.22	54.0	-5.56	AV	253.90	Vertical	Pass



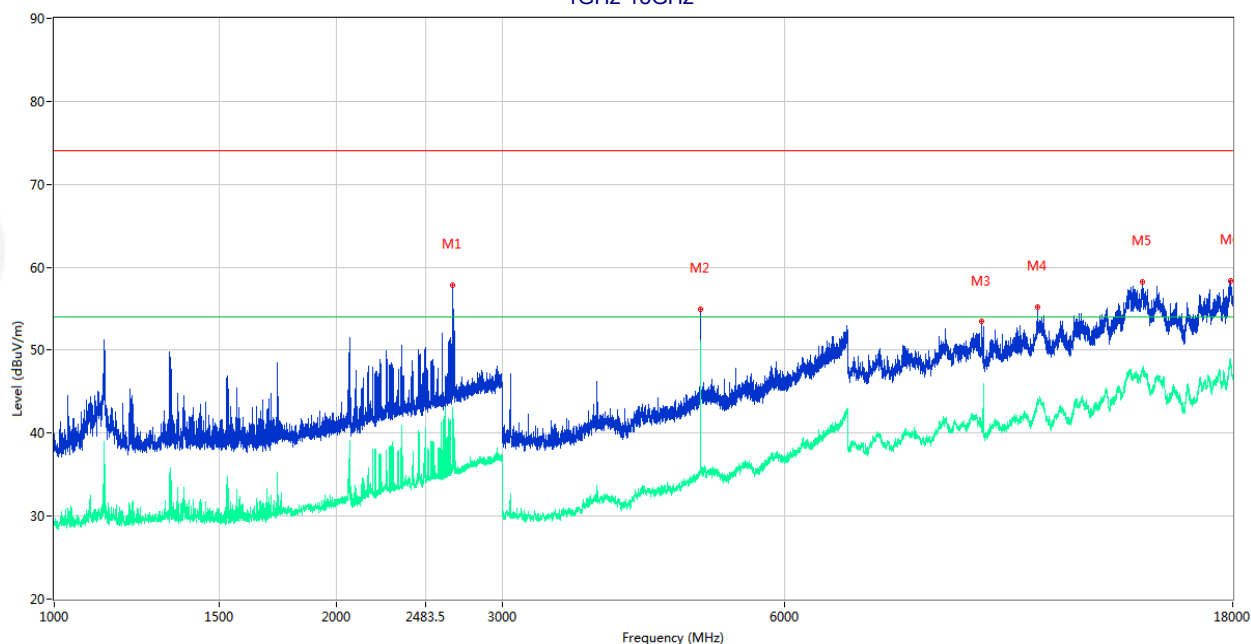
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	19576.0000	50.97	1.52	52.49	74.00	-21.51	peak	Pass
2 *	19576.0000	40.57	1.52	42.09	54.00	-11.91	AVG	Pass



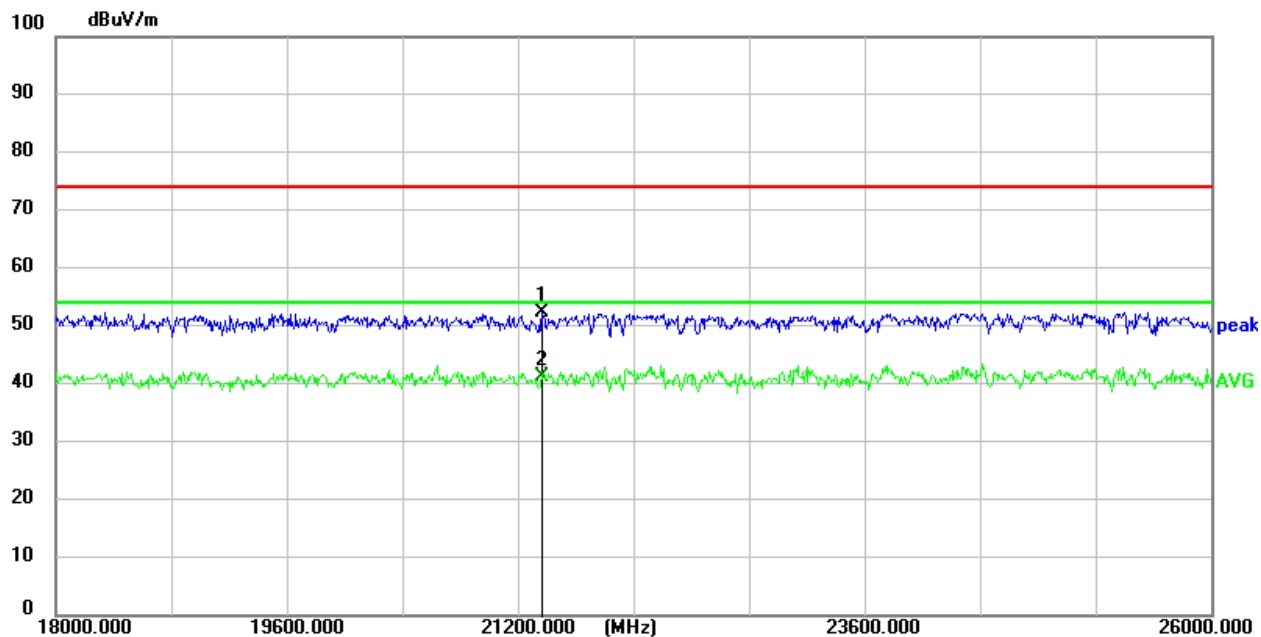
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2657.500	57.82	3.98	74.0	-16.18	Peak	130.80	Horizontal	Pass
1**	2657.500	43.04	3.98	54.0	-10.96	AV	130.80	Horizontal	Pass
2	4882.000	54.94	-6.26	74.0	-19.06	Peak	204.90	Horizontal	Pass
2**	4882.000	51.16	-6.26	54.0	-2.84	AV	204.90	Horizontal	Pass
3	9736.250	53.43	0.39	74.0	-20.57	Peak	123.70	Horizontal	Pass
3**	9736.250	41.34	0.39	54.0	-12.66	AV	123.70	Horizontal	Pass
4	11160.750	55.16	2.41	74.0	-18.84	Peak	51.20	Horizontal	Pass
4**	11160.750	43.87	2.41	54.0	-10.13	AV	51.20	Horizontal	Pass
5	14433.250	58.29	6.75	74.0	-15.71	Peak	252.80	Horizontal	Pass
5**	14433.250	47.73	6.75	54.0	-6.27	AV	252.80	Horizontal	Pass
6	17909.250	58.42	7.17	74.0	-15.58	Peak	67.20	Horizontal	Pass
6**	17909.250	48.54	7.17	54.0	-5.46	AV	67.20	Horizontal	Pass



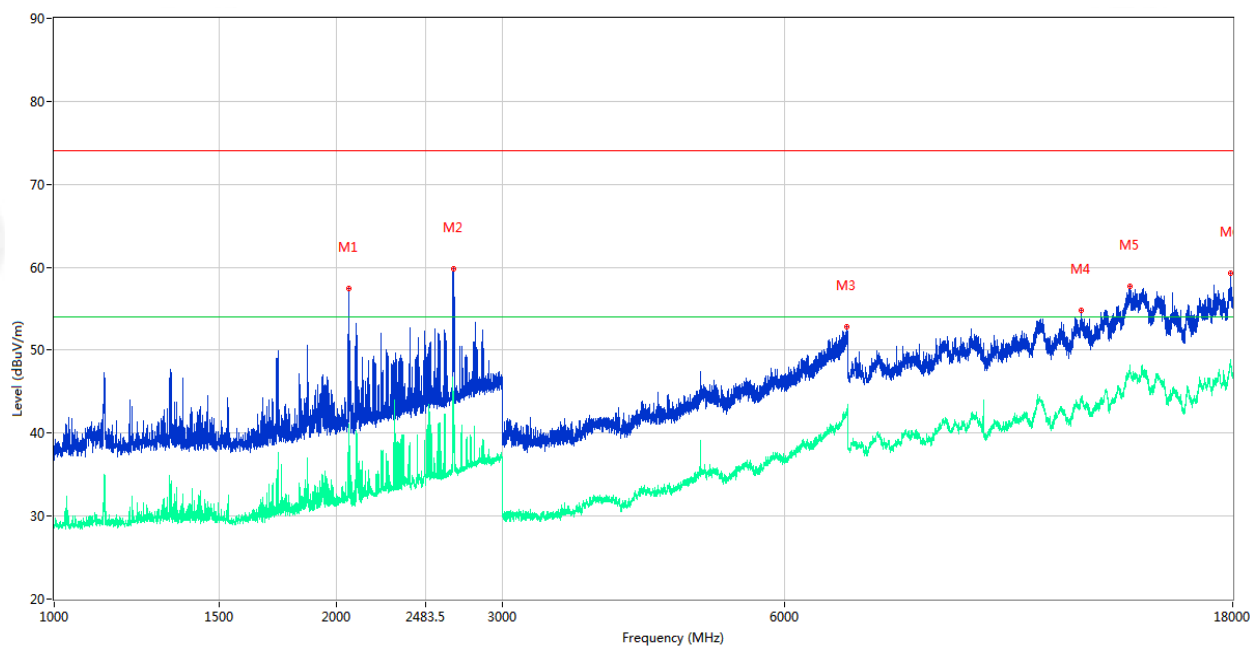
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	21368.0000	49.41	2.86	52.27	74.00	-21.73	peak	Pass
2 *	21368.0000	38.50	2.86	41.36	54.00	-12.64	AVG	Pass



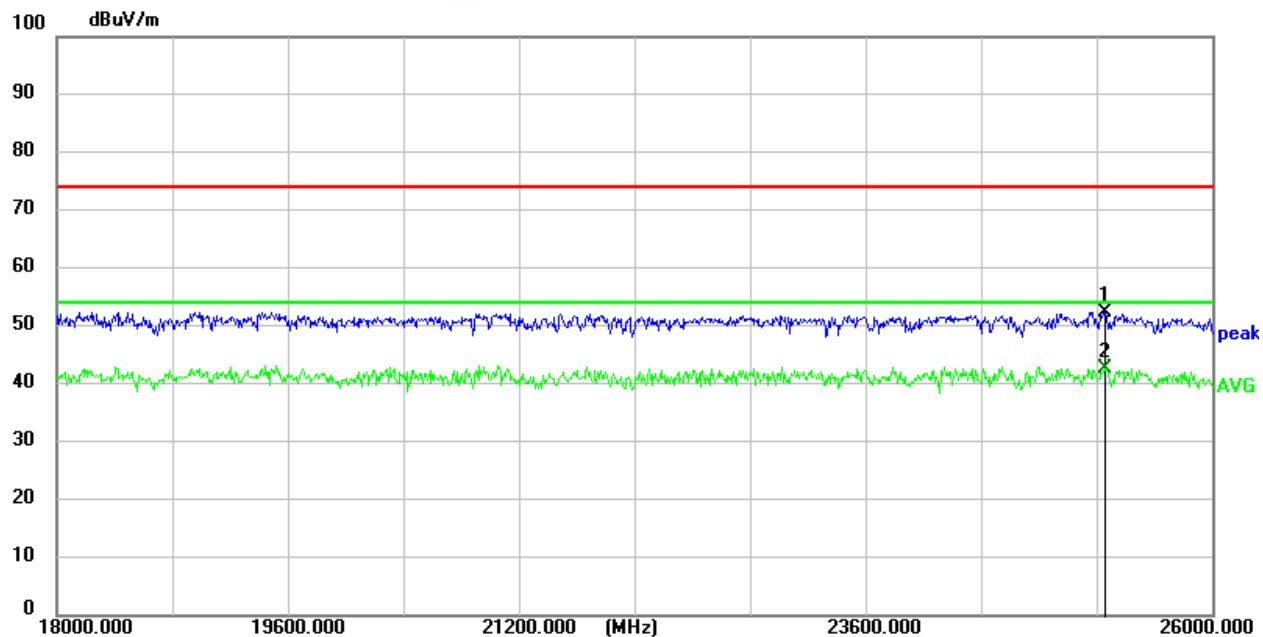
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2060.500	57.44	0.83	74.0	-16.56	Peak	111.20	Vertical	Pass
1**	2060.500	41.14	0.83	54.0	-12.86	AV	111.20	Vertical	Pass
2	2664.000	59.86	3.98	74.0	-14.14	Peak	130.50	Vertical	Pass
2**	2664.000	44.24	3.98	54.0	-9.76	AV	130.50	Vertical	Pass
3	6985.000	52.80	1.20	74.0	-21.20	Peak	341.40	Vertical	Pass
3**	6985.000	42.34	1.20	54.0	-11.66	AV	341.40	Vertical	Pass
4	12403.750	54.87	3.14	74.0	-19.13	Peak	63.90	Vertical	Pass
4**	12403.750	44.17	3.14	54.0	-9.83	AV	63.90	Vertical	Pass
5	13985.000	57.71	8.26	74.0	-16.29	Peak	246.50	Vertical	Pass
5**	13985.000	47.59	8.26	54.0	-6.41	AV	246.50	Vertical	Pass
6	17917.499	59.23	7.11	74.0	-14.77	Peak	194.80	Vertical	Pass
6**	17917.499	48.07	7.11	54.0	-5.93	AV	194.80	Vertical	Pass



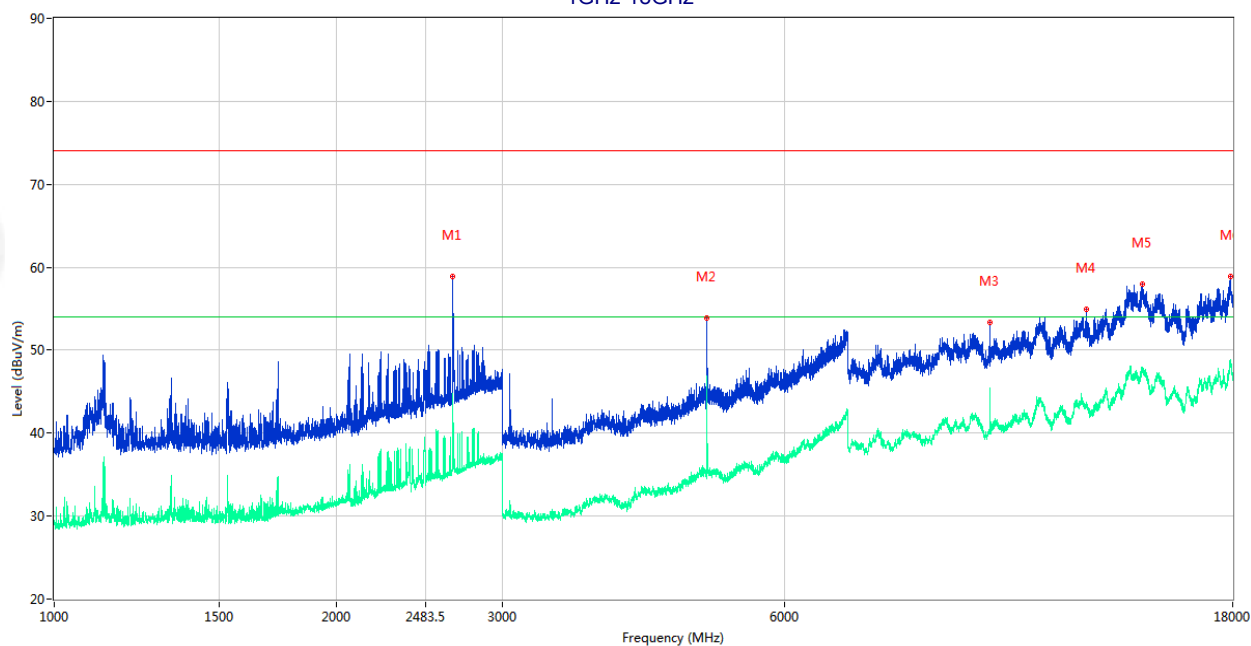
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	25264.0000	47.01	5.48	52.49	74.00	-21.51	peak	Pass
2 *	25264.0000	37.13	5.48	42.61	54.00	-11.39	AVG	Pass



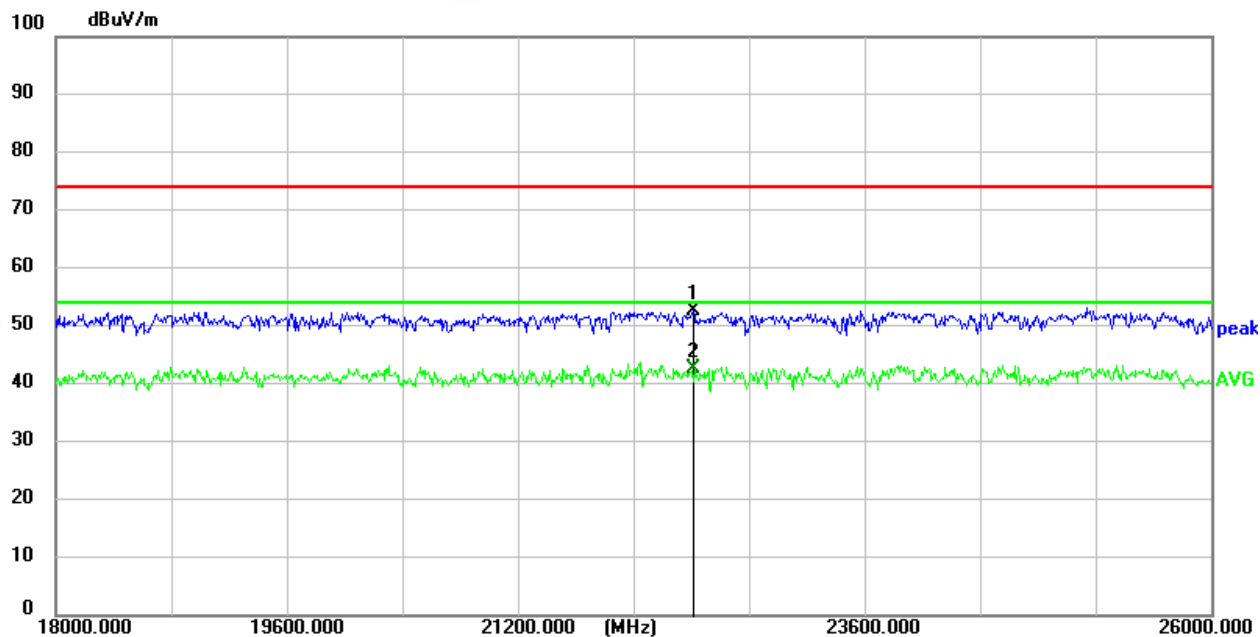
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2658.000	58.94	3.98	74.0	-15.06	Peak	141.20	Horizontal	Pass
1**	2658.000	43.79	3.98	54.0	-10.21	AV	141.20	Horizontal	Pass
2	4960.000	53.90	-5.99	74.0	-20.10	Peak	207.40	Horizontal	Pass
2**	4960.000	46.83	-5.99	54.0	-7.17	AV	207.40	Horizontal	Pass
3	9920.500	53.39	0.60	74.0	-20.61	Peak	165.00	Horizontal	Pass
3**	9920.500	45.46	0.60	54.0	-8.54	AV	165.00	Horizontal	Pass
4	12563.250	54.88	2.73	74.0	-19.12	Peak	1.10	Horizontal	Pass
4**	12563.250	43.28	2.73	54.0	-10.72	AV	1.10	Horizontal	Pass
5	14433.250	58.01	6.75	74.0	-15.99	Peak	149.40	Horizontal	Pass
5**	14433.250	47.59	6.75	54.0	-6.41	AV	149.40	Horizontal	Pass
6	17925.751	58.87	7.04	74.0	-15.13	Peak	102.90	Horizontal	Pass
6**	17925.751	48.26	7.04	54.0	-5.74	AV	102.90	Horizontal	Pass



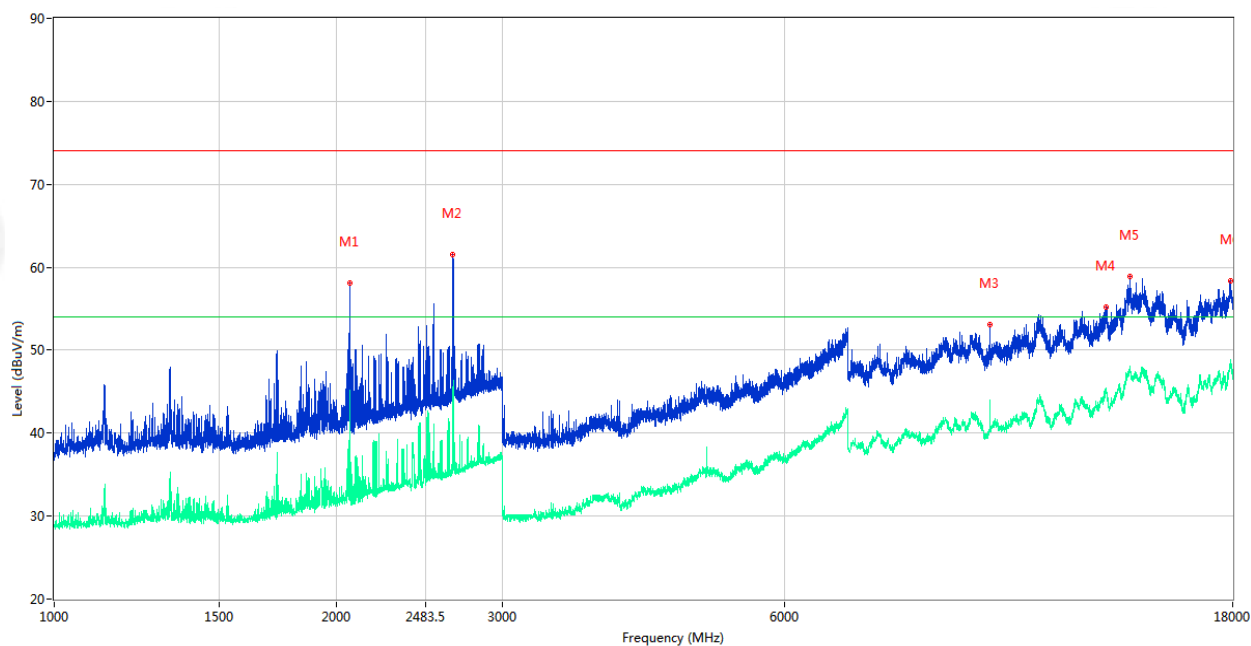
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	22416.0000	48.75	3.83	52.58	74.00	-21.42	peak	Pass
2 *	22416.0000	38.94	3.83	42.77	54.00	-11.23	AVG	Pass



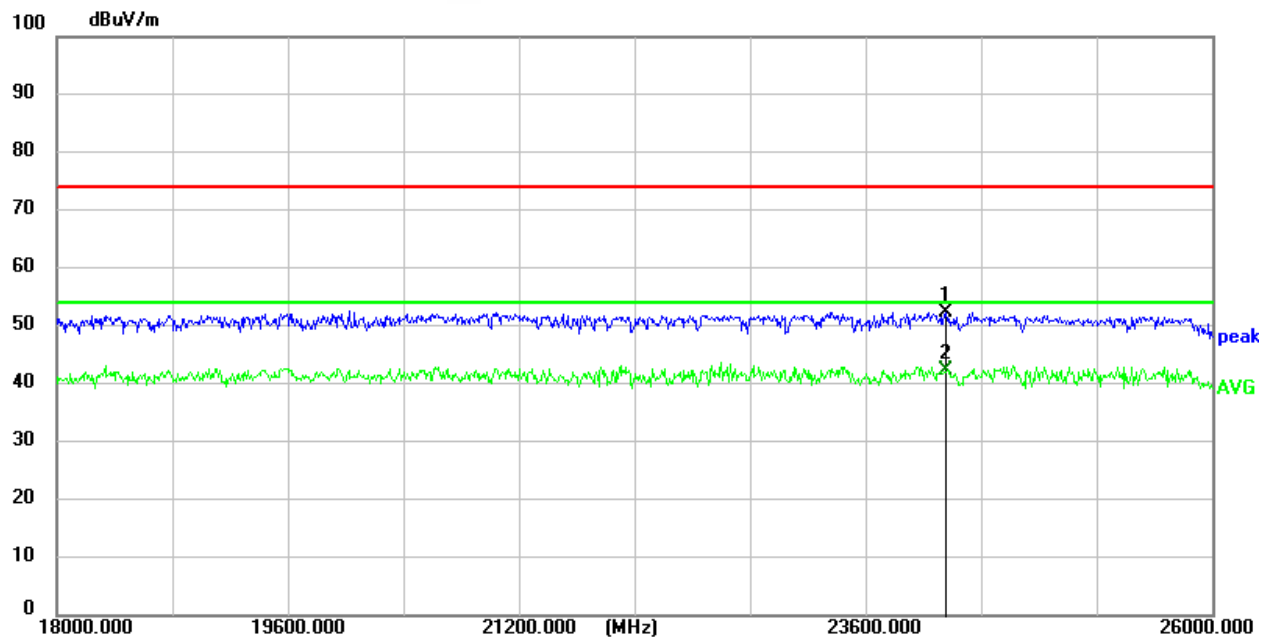
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2066.500	58.15	0.83	74.0	-15.85	Peak	113.40	Vertical	Pass
1**	2066.500	45.21	0.83	54.0	-8.79	AV	113.40	Vertical	Pass
2	2659.500	61.49	3.98	74.0	-12.51	Peak	97.40	Vertical	Pass
2**	2659.500	45.59	3.98	54.0	-8.41	AV	97.40	Vertical	Pass
3	9920.500	53.14	0.60	74.0	-20.86	Peak	267.40	Vertical	Pass
3**	9920.500	43.98	0.60	54.0	-10.02	AV	267.40	Vertical	Pass
4	13190.250	55.15	5.35	74.0	-18.85	Peak	1.10	Vertical	Pass
4**	13190.250	45.19	5.35	54.0	-8.81	AV	1.10	Vertical	Pass
5	13982.250	58.92	8.23	74.0	-15.08	Peak	100.70	Vertical	Pass
5**	13982.250	47.30	8.23	54.0	-6.70	AV	100.70	Vertical	Pass
6	17890.001	58.40	7.15	74.0	-15.60	Peak	357.10	Vertical	Pass
6**	17890.001	48.41	7.15	54.0	-5.59	AV	357.10	Vertical	Pass



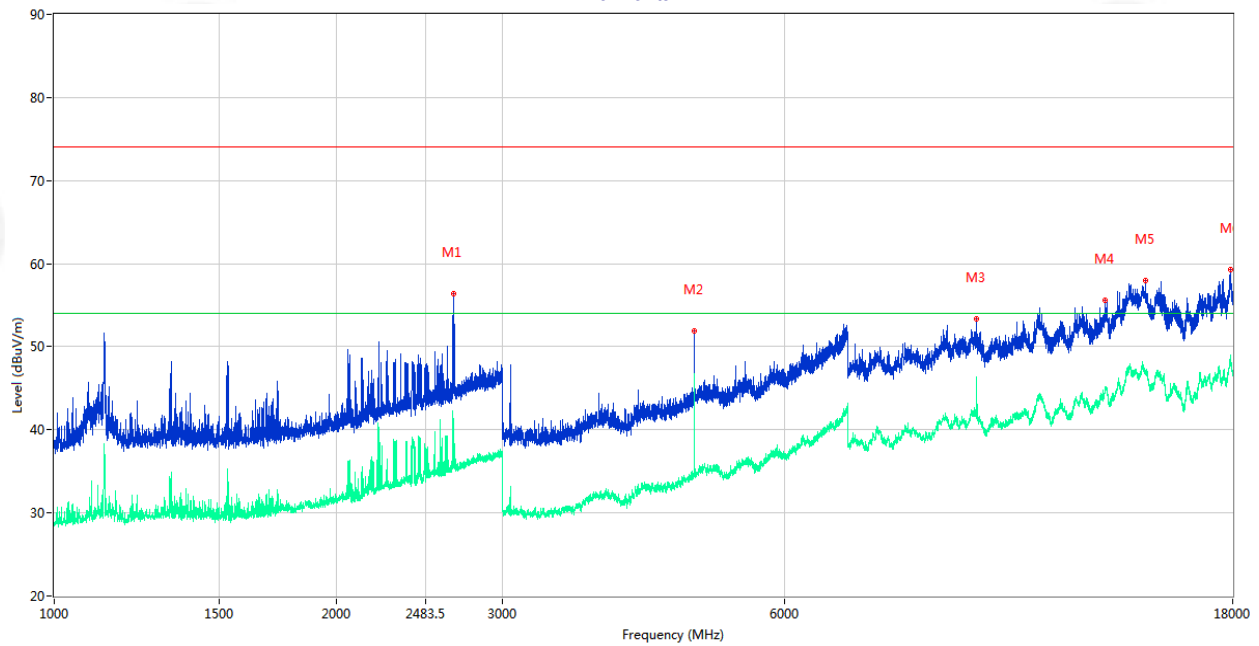
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	24160.0000	47.67	4.65	52.32	74.00	-21.68	peak	Pass
2 *	24160.0000	37.61	4.65	42.26	54.00	-11.74	AVG	Pass



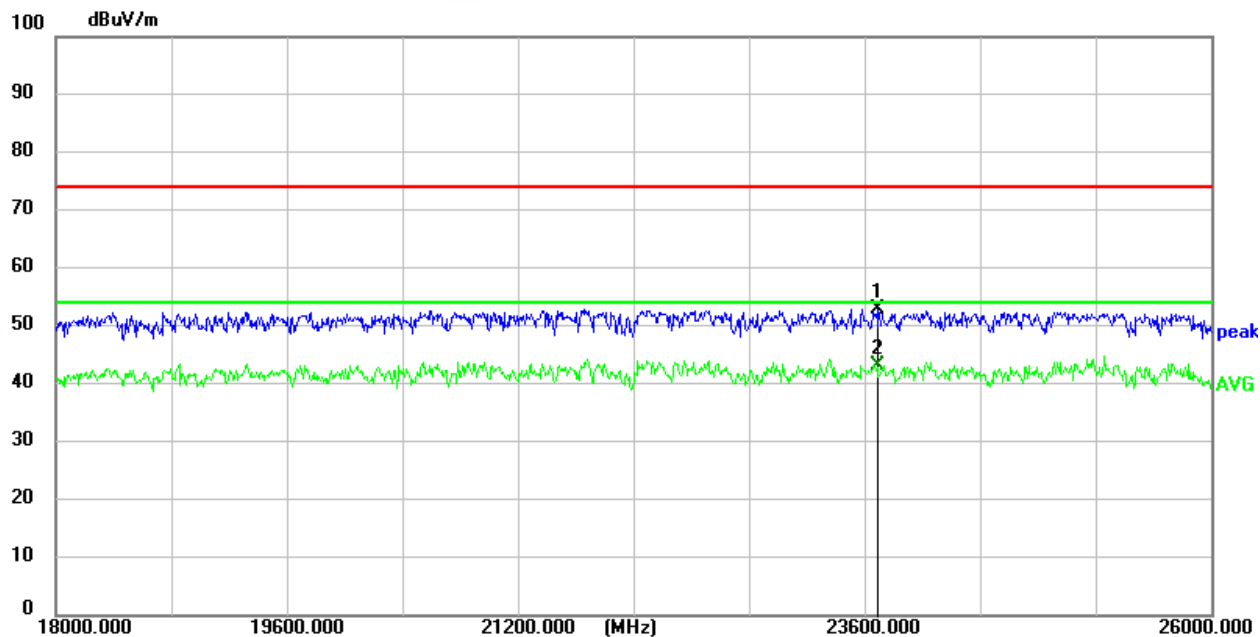
8DPSK
Low Channel
Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2662.500	56.39	3.98	74.0	-17.61	Peak	146.80	Horizontal	Pass
1**	2662.500	41.33	3.98	54.0	-12.67	AV	146.80	Horizontal	Pass
2	4804.000	51.93	-7.11	74.0	-22.07	Peak	203.00	Horizontal	Pass
2**	4804.000	46.82	-7.11	54.0	-7.18	AV	203.00	Horizontal	Pass
3	9607.000	53.38	0.57	74.0	-20.62	Peak	172.60	Horizontal	Pass
3**	9607.000	46.34	0.57	54.0	-7.66	AV	172.60	Horizontal	Pass
4	13179.250	55.56	5.24	74.0	-18.44	Peak	0.00	Horizontal	Pass
4**	13179.250	45.00	5.24	54.0	-9.00	AV	0.00	Horizontal	Pass
5	14532.250	57.94	6.29	74.0	-16.06	Peak	138.70	Horizontal	Pass
5**	14532.250	46.66	6.29	54.0	-7.34	AV	138.70	Horizontal	Pass
6	17912.001	59.24	7.15	74.0	-14.76	Peak	141.30	Horizontal	Pass
6**	17912.001	48.18	7.15	54.0	-5.82	AV	141.30	Horizontal	Pass



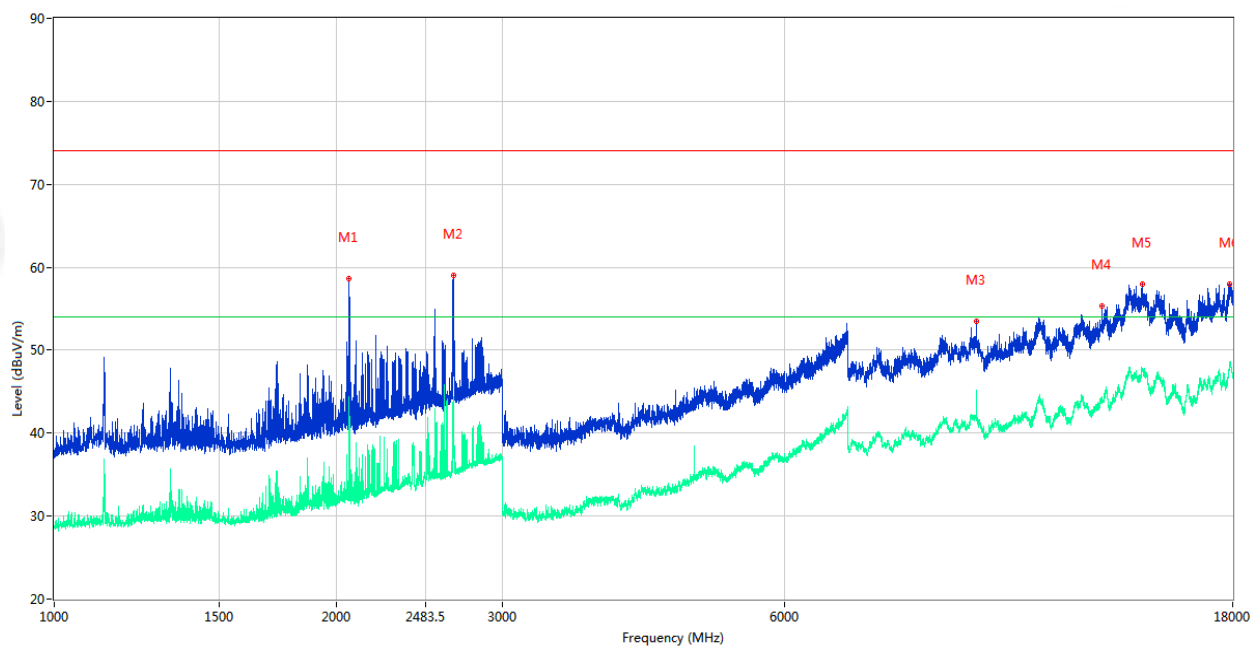
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	23688.0000	48.65	4.32	52.97	74.00	-21.03	peak	Pass
2 *	23688.0000	38.92	4.32	43.24	54.00	-10.76	AVG	Pass



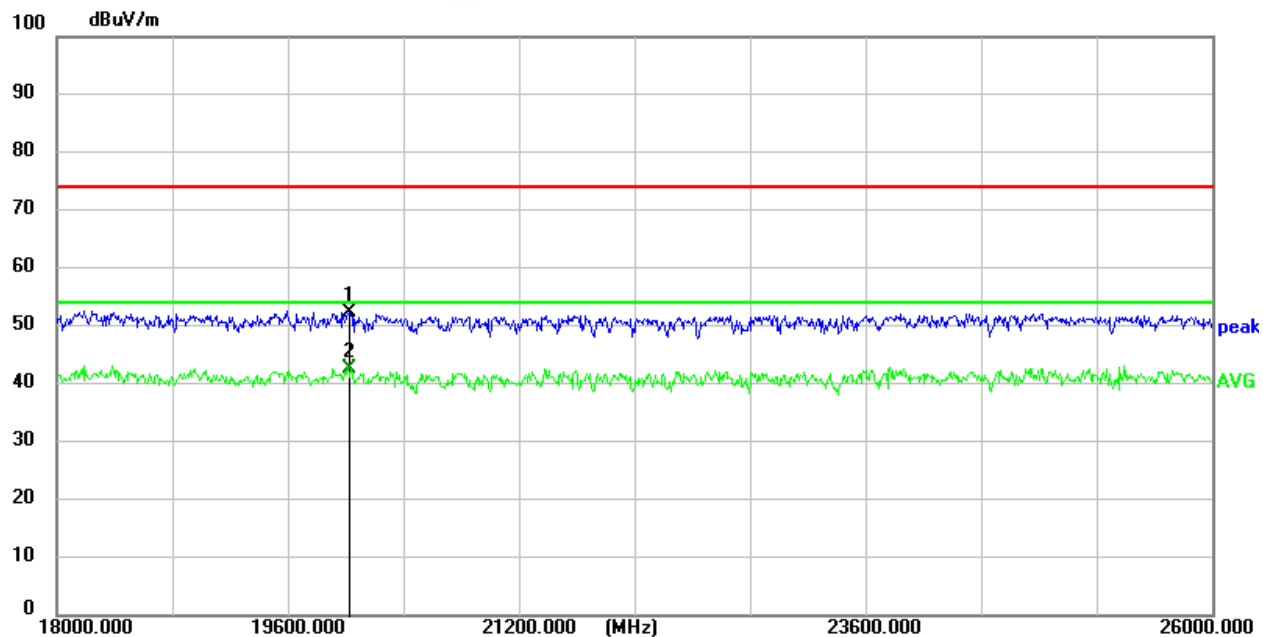
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2060.500	58.60	0.83	74.0	-15.40	Peak	108.50	Vertical	Pass
1**	2060.500	44.33	0.83	54.0	-9.67	AV	108.50	Vertical	Pass
2	2665.000	58.98	3.98	74.0	-15.02	Peak	126.00	Vertical	Pass
2**	2665.000	44.38	3.98	54.0	-9.62	AV	126.00	Vertical	Pass
3	9607.000	53.46	0.57	74.0	-20.54	Peak	281.10	Vertical	Pass
3**	9607.000	45.15	0.57	54.0	-8.85	AV	281.10	Vertical	Pass
4	13055.500	55.33	4.31	74.0	-18.67	Peak	69.10	Vertical	Pass
4**	13055.500	43.99	4.31	54.0	-10.01	AV	69.10	Vertical	Pass
5	14408.500	58.00	6.93	74.0	-16.00	Peak	228.70	Vertical	Pass
5**	14408.500	47.77	6.93	54.0	-6.23	AV	228.70	Vertical	Pass
6	17848.750	57.94	6.80	74.0	-16.06	Peak	151.70	Vertical	Pass
6**	17848.750	47.66	6.80	54.0	-6.34	AV	151.70	Vertical	Pass



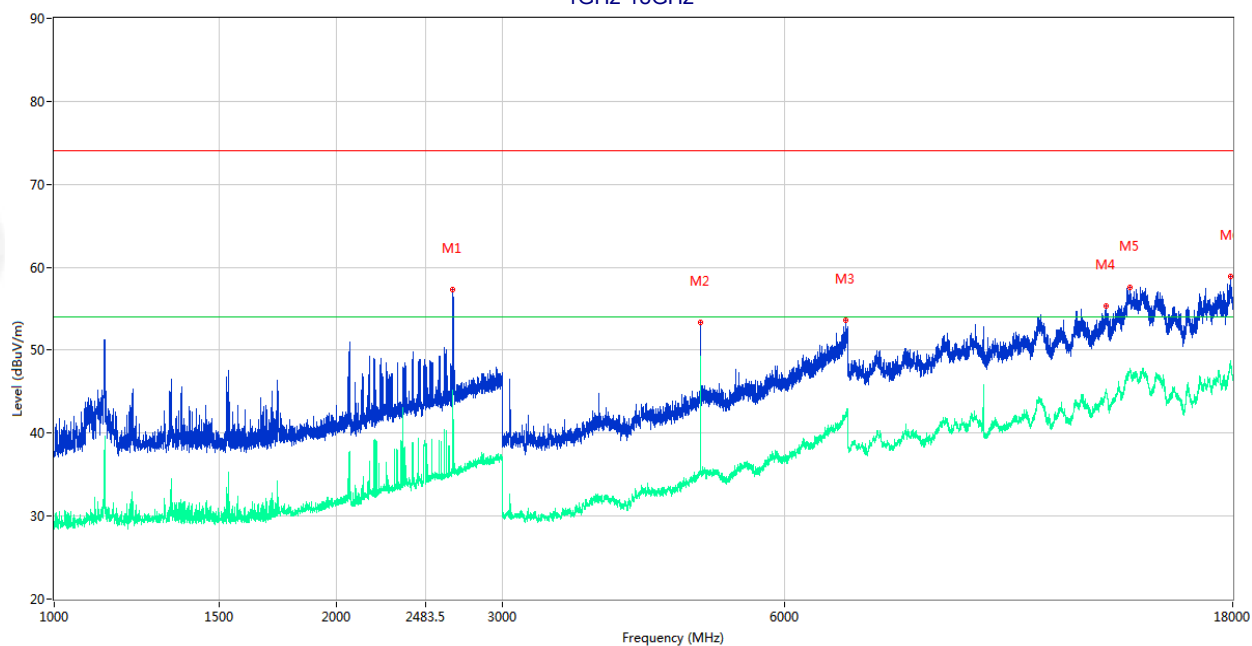
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20032.0000	50.46	1.83	52.29	74.00	-21.71	peak	Pass
2 *	20032.0000	40.89	1.83	42.72	54.00	-11.28	AVG	Pass



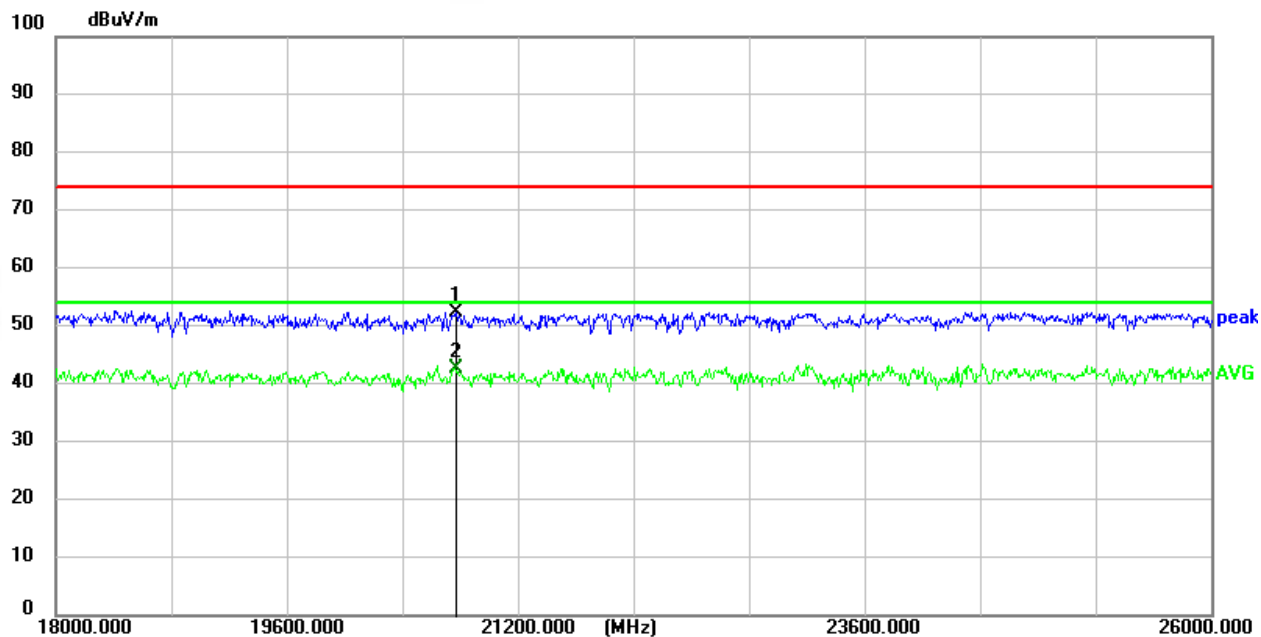
Mid Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2657.000	57.34	3.98	74.0	-16.66	Peak	141.60	Horizontal	Pass
1**	2657.000	45.18	3.98	54.0	-8.82	AV	141.60	Horizontal	Pass
2	4882.000	53.36	-6.26	74.0	-20.64	Peak	209.60	Horizontal	Pass
2**	4882.000	49.31	-6.26	54.0	-4.69	AV	209.60	Horizontal	Pass
3	6970.000	53.67	1.08	74.0	-20.33	Peak	150.20	Horizontal	Pass
3**	6970.000	42.18	1.08	54.0	-11.82	AV	150.20	Horizontal	Pass
4	13193.000	55.32	5.37	74.0	-18.68	Peak	97.30	Horizontal	Pass
4**	13193.000	45.11	5.37	54.0	-8.89	AV	97.30	Horizontal	Pass
5	13998.750	57.62	8.43	74.0	-16.38	Peak	294.50	Horizontal	Pass
5**	13998.750	47.69	8.43	54.0	-6.31	AV	294.50	Horizontal	Pass
6	17895.500	58.91	7.20	74.0	-15.09	Peak	201.50	Horizontal	Pass
6**	17895.500	48.28	7.20	54.0	-5.72	AV	201.50	Horizontal	Pass



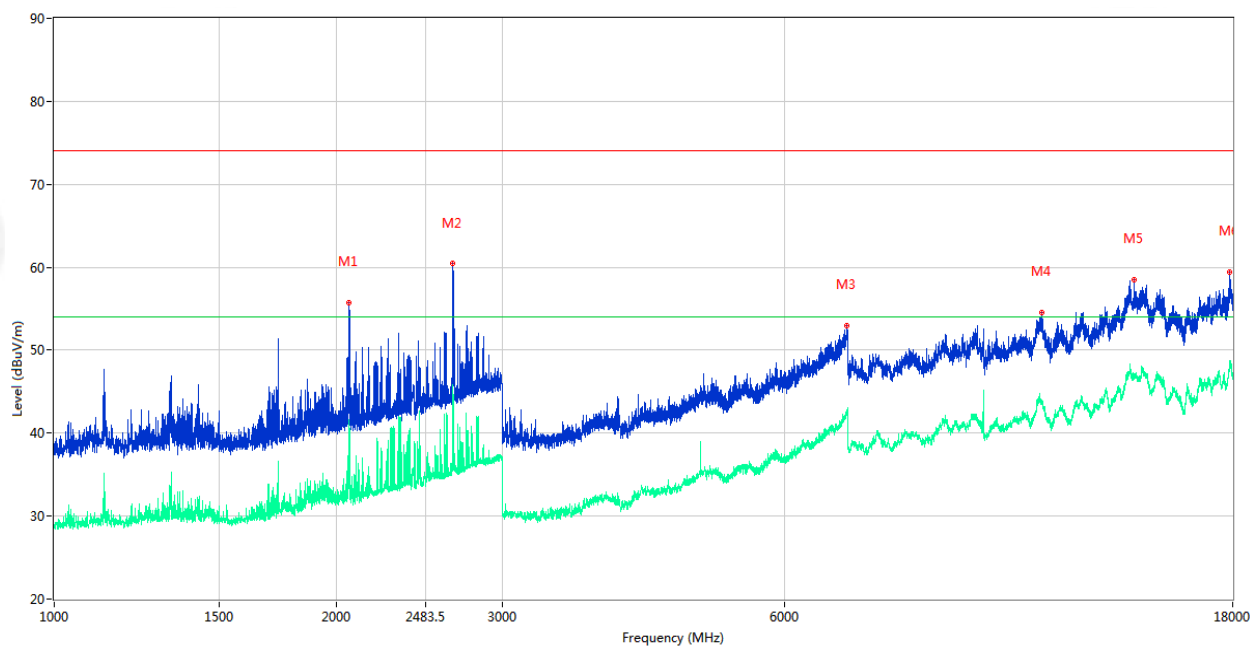
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	20776.0000	50.01	2.47	52.48	74.00	-21.52	peak	Pass
2 *	20776.0000	40.21	2.47	42.68	54.00	-11.32	AVG	Pass



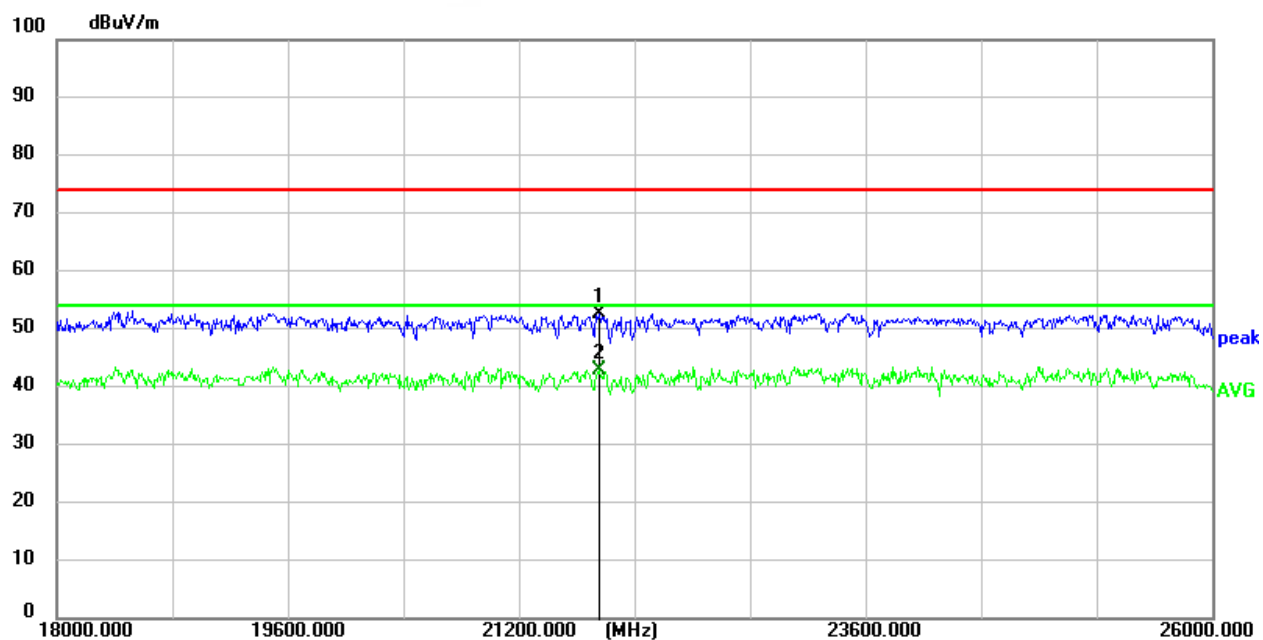
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2061.500	55.67	0.83	74.0	-18.33	Peak	97.30	Vertical	Pass
1**	2061.500	41.68	0.83	54.0	-12.32	AV	97.30	Vertical	Pass
2	2656.000	60.41	3.98	74.0	-13.59	Peak	309.60	Vertical	Pass
2**	2656.000	45.79	3.98	54.0	-8.21	AV	309.60	Vertical	Pass
3	6983.000	53.02	1.18	74.0	-20.98	Peak	360.00	Vertical	Pass
3**	6983.000	42.31	1.18	54.0	-11.69	AV	360.00	Vertical	Pass
4	11262.500	54.52	2.41	74.0	-19.48	Peak	104.90	Vertical	Pass
4**	11262.500	43.86	2.41	54.0	-10.14	AV	104.90	Vertical	Pass
5	14139.000	58.53	6.89	74.0	-15.47	Peak	277.40	Vertical	Pass
5**	14139.000	46.61	6.89	54.0	-7.39	AV	277.40	Vertical	Pass
6	17876.251	59.36	7.04	74.0	-14.64	Peak	39.50	Vertical	Pass
6**	17876.251	47.90	7.04	54.0	-6.10	AV	39.50	Vertical	Pass



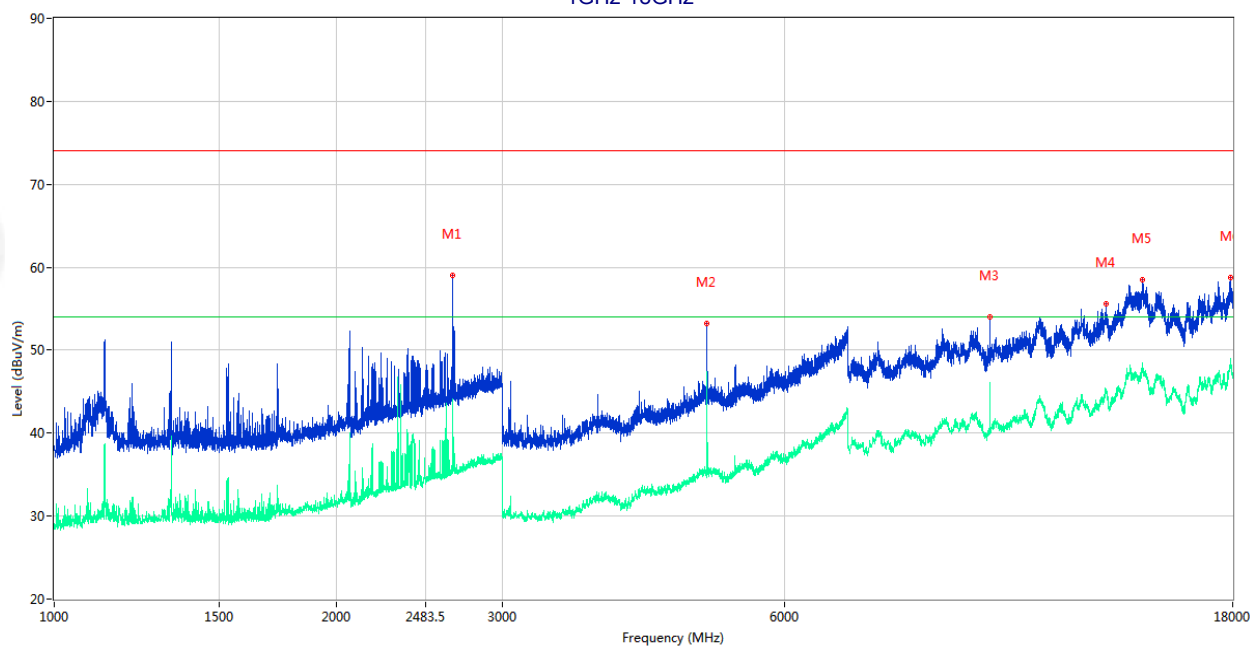
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	21760.0000	49.52	3.18	52.70	74.00	-21.30	peak	Pass
2 *	21760.0000	39.84	3.18	43.02	54.00	-10.98	AVG	Pass



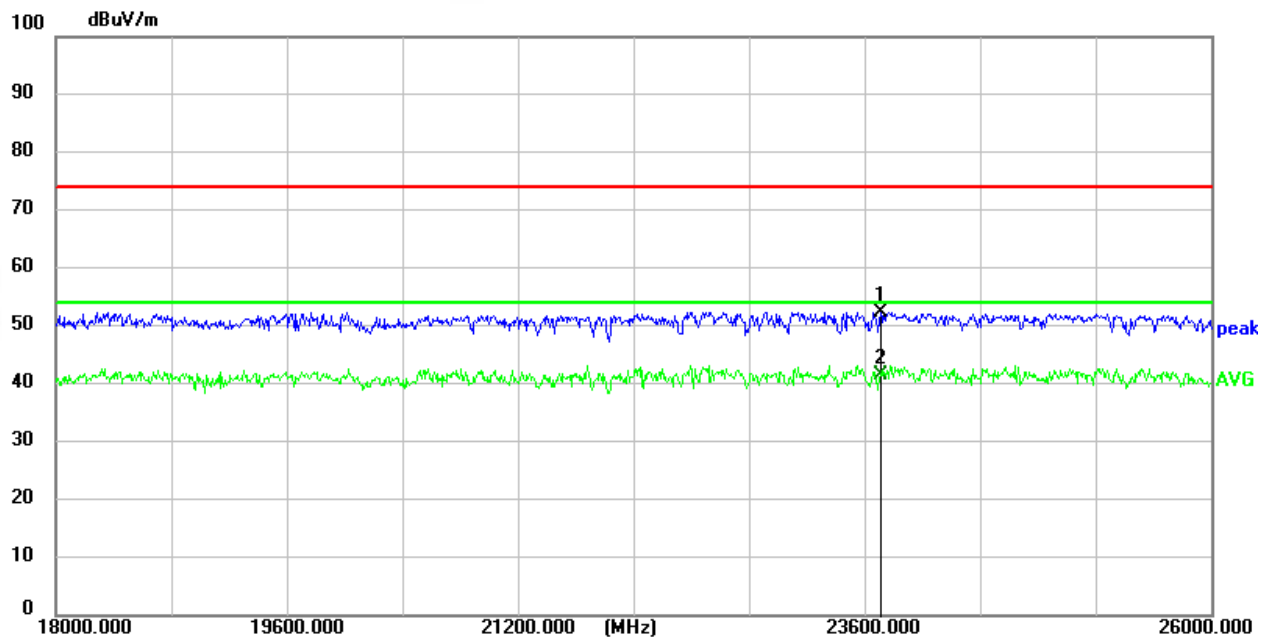
High Channel
Horizontal
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2657.500	58.98	3.98	74.0	-15.02	Peak	132.60	Horizontal	Pass
1**	2657.500	42.97	3.98	54.0	-11.03	AV	132.60	Horizontal	Pass
2	4960.000	53.21	-5.99	74.0	-20.79	Peak	205.60	Horizontal	Pass
2**	4960.000	47.48	-5.99	54.0	-6.52	AV	205.60	Horizontal	Pass
3	9920.500	53.98	0.60	74.0	-20.02	Peak	167.60	Horizontal	Pass
3**	9920.500	46.09	0.60	54.0	-7.91	AV	167.60	Horizontal	Pass
4	13198.500	55.58	5.43	74.0	-18.42	Peak	96.90	Horizontal	Pass
4**	13198.500	45.25	5.43	54.0	-8.75	AV	96.90	Horizontal	Pass
5	14414.000	58.46	6.89	74.0	-15.54	Peak	253.90	Horizontal	Pass
5**	14414.000	47.62	6.89	54.0	-6.38	AV	253.90	Horizontal	Pass
6	17925.751	58.70	7.04	74.0	-15.30	Peak	1.70	Horizontal	Pass
6**	17925.751	48.32	7.04	54.0	-5.68	AV	1.70	Horizontal	Pass



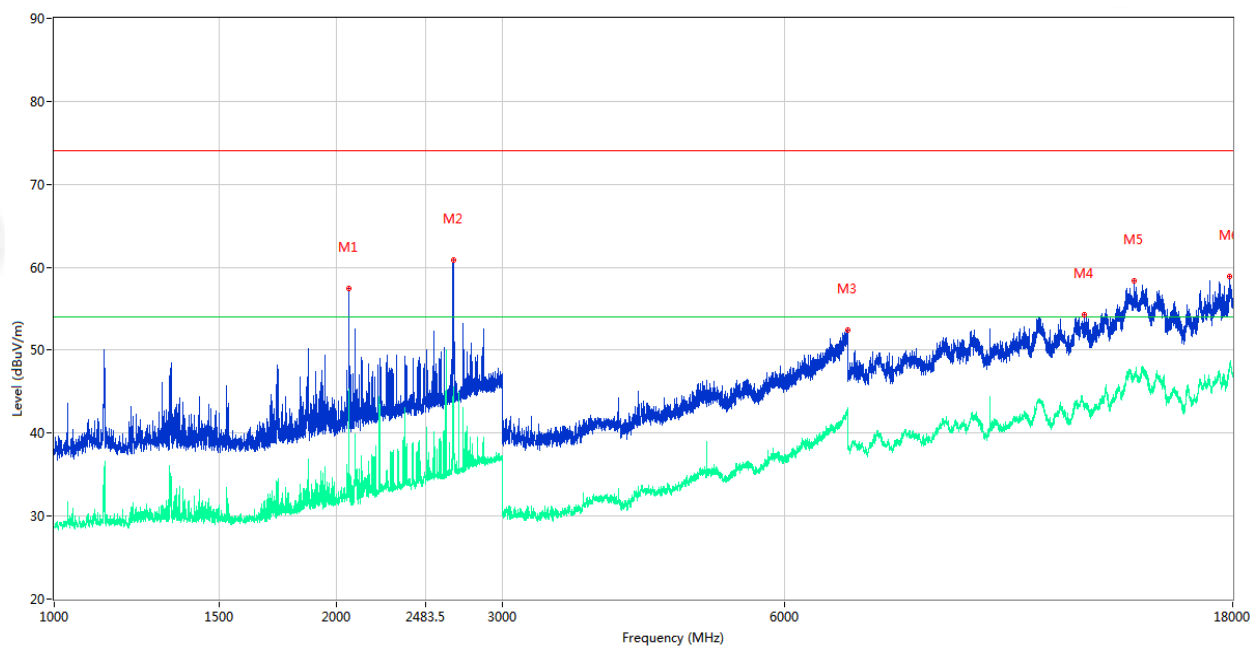
18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	23712.0000	48.14	4.34	52.48	74.00	-21.52	peak	Pass
2 *	23712.0000	37.31	4.34	41.65	54.00	-12.35	AVG	Pass



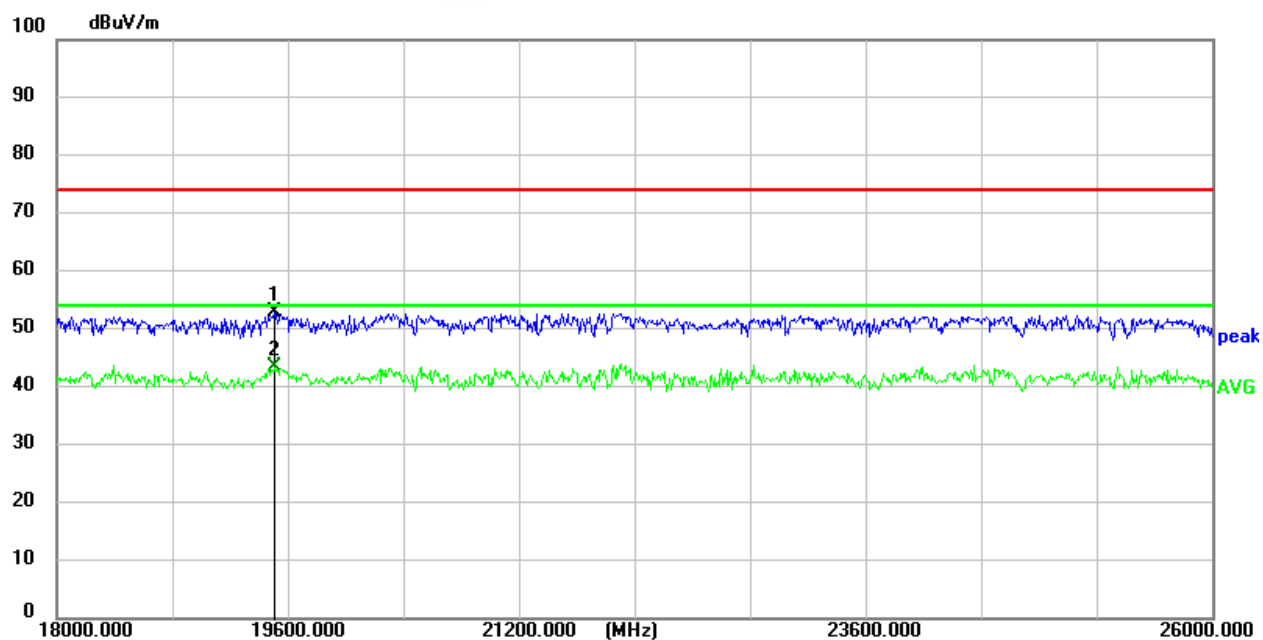
Vertical
1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin-(dB)	Detector	Table (Degree)	Antenna	Verdict
1	2058.500	57.43	0.82	74.0	-16.57	Peak	112.20	Vertical	Pass
1**	2058.500	45.35	0.82	54.0	-8.65	AV	112.20	Vertical	Pass
2	2660.500	60.85	3.98	74.0	-13.15	Peak	96.60	Vertical	Pass
2**	2660.500	45.64	3.98	54.0	-8.36	AV	96.60	Vertical	Pass
3	7000.000	52.45	1.32	74.0	-21.55	Peak	70.80	Vertical	Pass
3**	7000.000	42.67	1.32	54.0	-11.33	AV	70.80	Vertical	Pass
4	12524.750	54.23	2.39	74.0	-19.77	Peak	222.30	Vertical	Pass
4**	12524.750	43.34	2.39	54.0	-10.66	AV	222.30	Vertical	Pass
5	14152.750	58.31	6.91	74.0	-15.69	Peak	120.50	Vertical	Pass
5**	14152.750	46.93	6.91	54.0	-7.07	AV	120.50	Vertical	Pass
6	17848.750	58.87	6.80	74.0	-15.13	Peak	11.20	Vertical	Pass
6**	17848.750	47.62	6.80	54.0	-6.38	AV	11.20	Vertical	Pass



18GHz-26GHz



No.	Frequency (MHz)	Reading Level(dBuV/m)	Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Pass/Fail
1	19504.0000	51.36	1.48	52.84	74.00	-21.16	peak	Pass
2 *	19504.0000	42.08	1.48	43.56	54.00	-10.44	AVG	Pass

Note:

- Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor.
- The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.



5. EMISSIONS AT RESTRICTED BAND

5.1 Test Requirement:

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (MHz)	FREQUENCY (GHz)
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

5.2 TEST PROCEDURE

According to ANSI C63.10 Field Strength Approach (linear terms):

$$E = \text{EIRP} - 20 \log d + 104.8:$$

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to an EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
- Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=3 MHz for AVG detector, Max Hold=Average, Trace=100times for AV test.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.
- Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

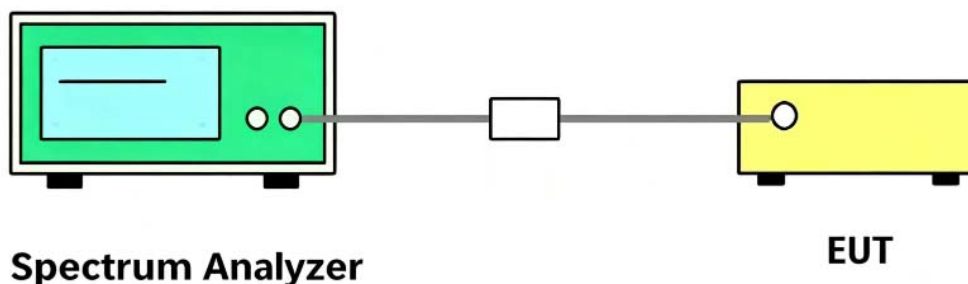


- g. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
- h. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
- i. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- j. Compare the resultant electric field strength level to the applicable regulatory limit.
- k. Perform radiated spurious emission test duress until all measured frequencies were complete.

5.3 DEVIATION FROM TEST STANDARD

No deviation

5.4 TEST SETUP



5.5 TEST RESULT

Note: The test data please refer to APPENDIX 1.

Remark:

1. test results including cable loss;
2. Measured at difference Packet Type for each mode and recorded worst case for each mode.
3. "---" means that the fundamental frequency not for 15.209 limits requirement.
4. Measured at Non-Hopping mode, recorded worst at Non-Hopping mode.
5. The other emission levels were very low against the limit.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=3MHz/Sweep time=Auto/Detector=RMS, Max Hold=Average, Trace=100times.
8. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.



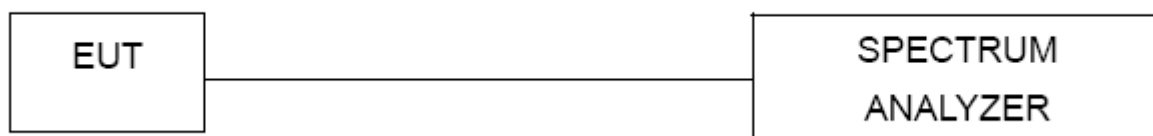
6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

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



30

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

Note: The test data please refer to APPENDIX 1.



7. 20DB BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020+Cor 1:2023

7.1 Test Setup



7.2 Limit

N/A

7.3 Test procedure

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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 20 dB relative to the maximum level measured in the fundamental emission.

7.4 DEVIATION FROM STANDARD

No deviation.

7.5 Test Result

Note: The test data please refer to APPENDIX 1.



8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2020+Cor 1:2023
Limit:	GFSK:30 dBm $\pi/4$ -DQPSK & 8-DPSK:20.97 dBm

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.

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

Note: The test data please refer to APPENDIX 1.



9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020+Cor 1:2023
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth $\pi/4$ -DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

9.1 Test Setup



9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 Test Result

Note: The test data please refer to APPENDIX 1.



10.NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020+Cor 1:2023
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	GFSK 75 channels, $\pi/4$ -DQPSK 15channels

10.1 Test Setup



10.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.
4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

10.3 DEVIATION FROM STANDARD

No deviation.

10.4 Test Result

Note: The test data please refer to APPENDIX 1.



11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2020+Cor 1:2023
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup



11.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set spectrum analyzer span = 0Hz;
3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3, DH1, 2DH5, 2DH3 and 2DH1 packet transmitting.
4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

11.3 DEVIATION FROM STANDARD

No deviation.

11.4 Test Result

Note: The test data please refer to APPENDIX 1.



12. Antenna Requirement

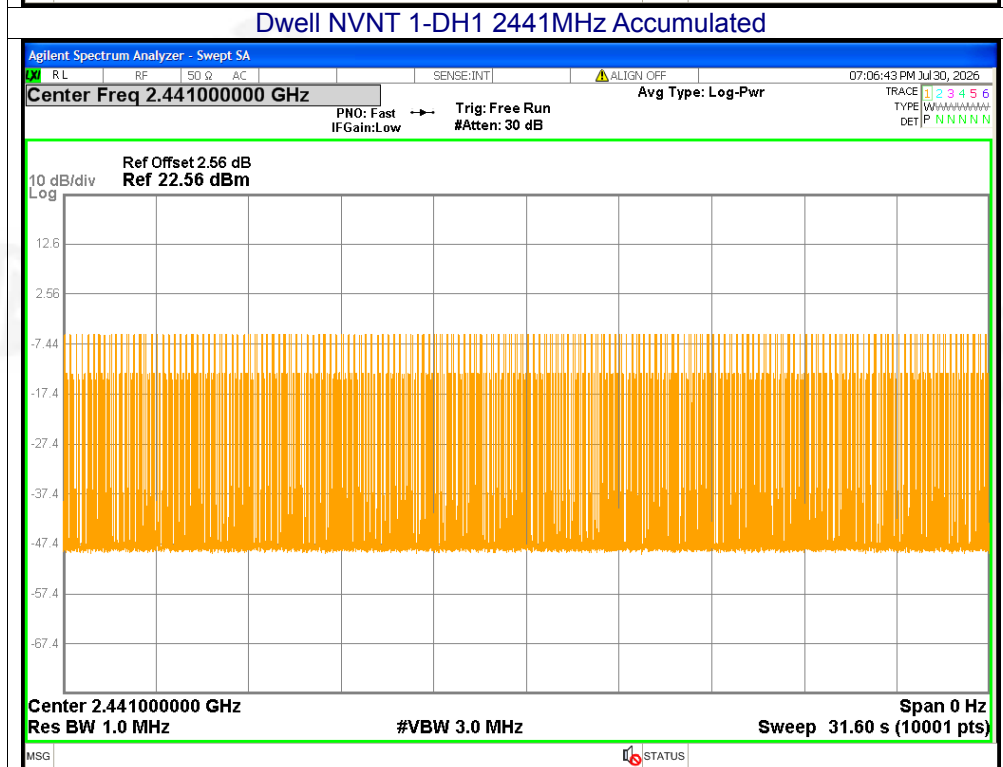
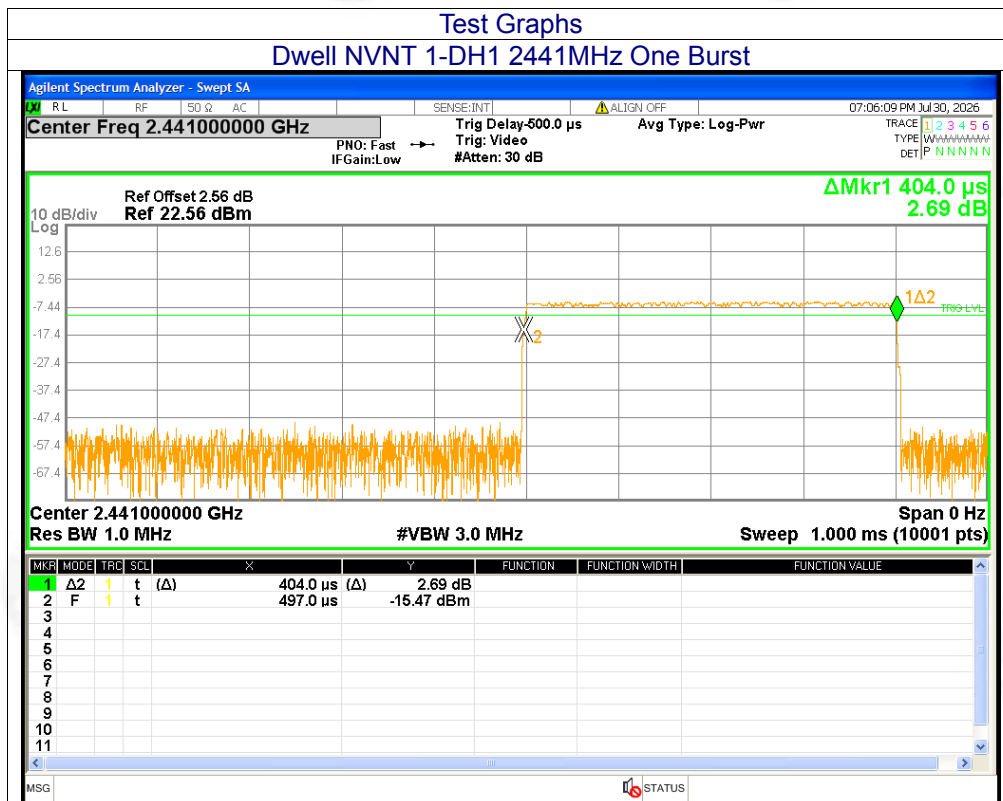
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
EUT Antenna:	
The antenna is SMD Antenna, the best case gain of the antennas is 2.7 dBi, reference to the appendix II for details	

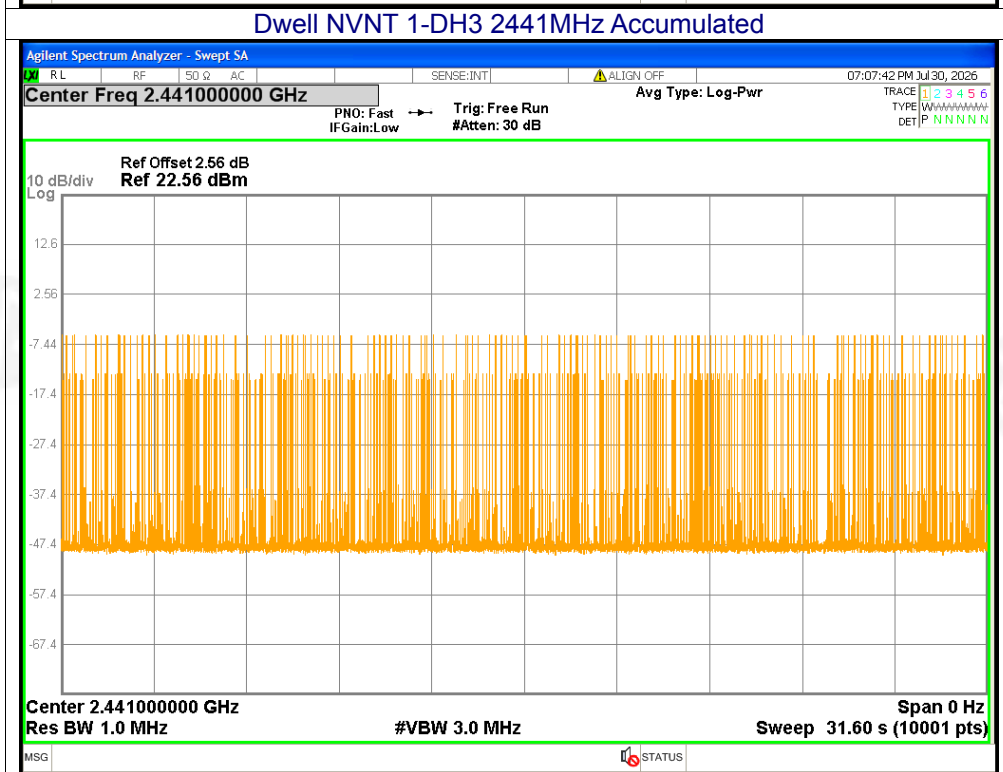
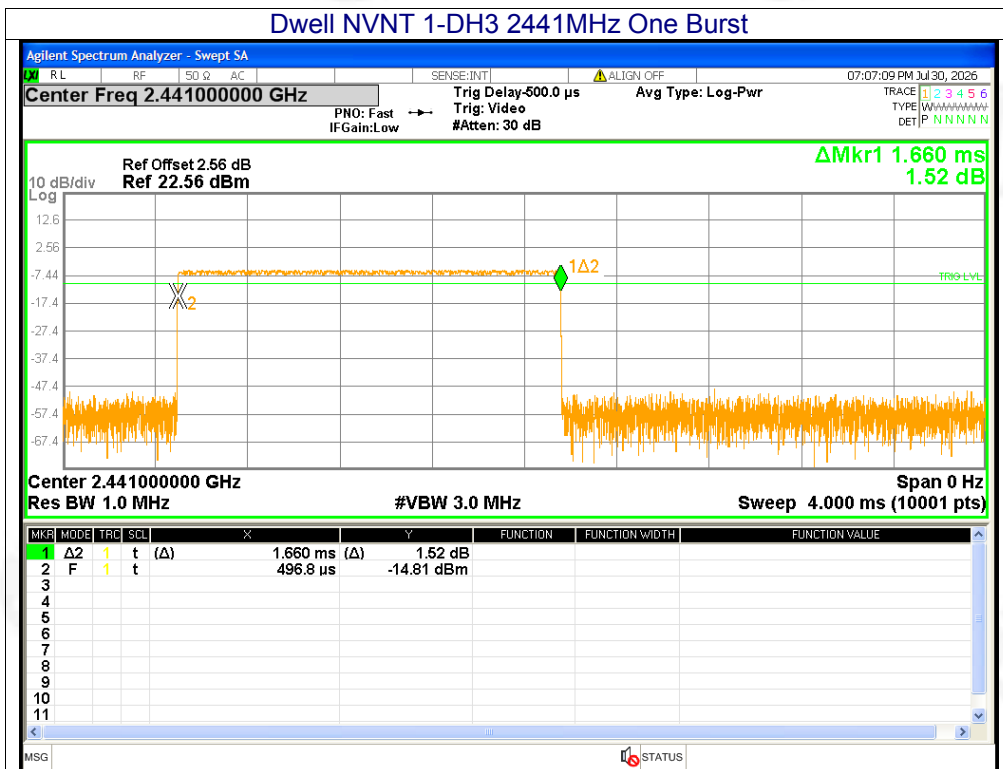


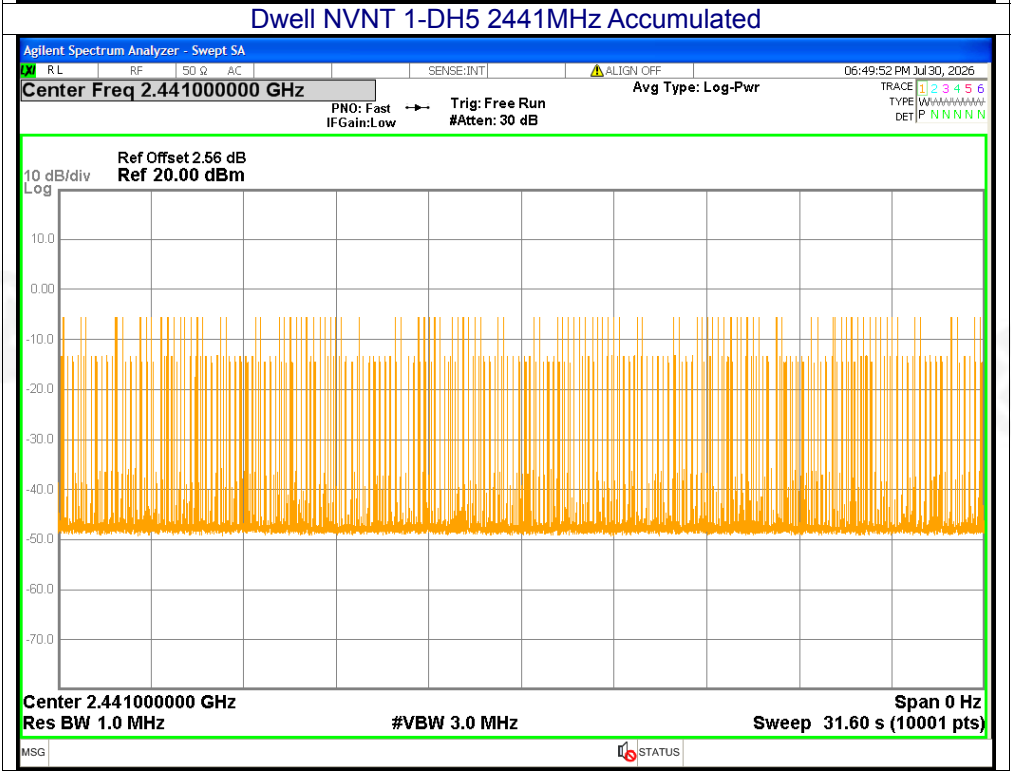
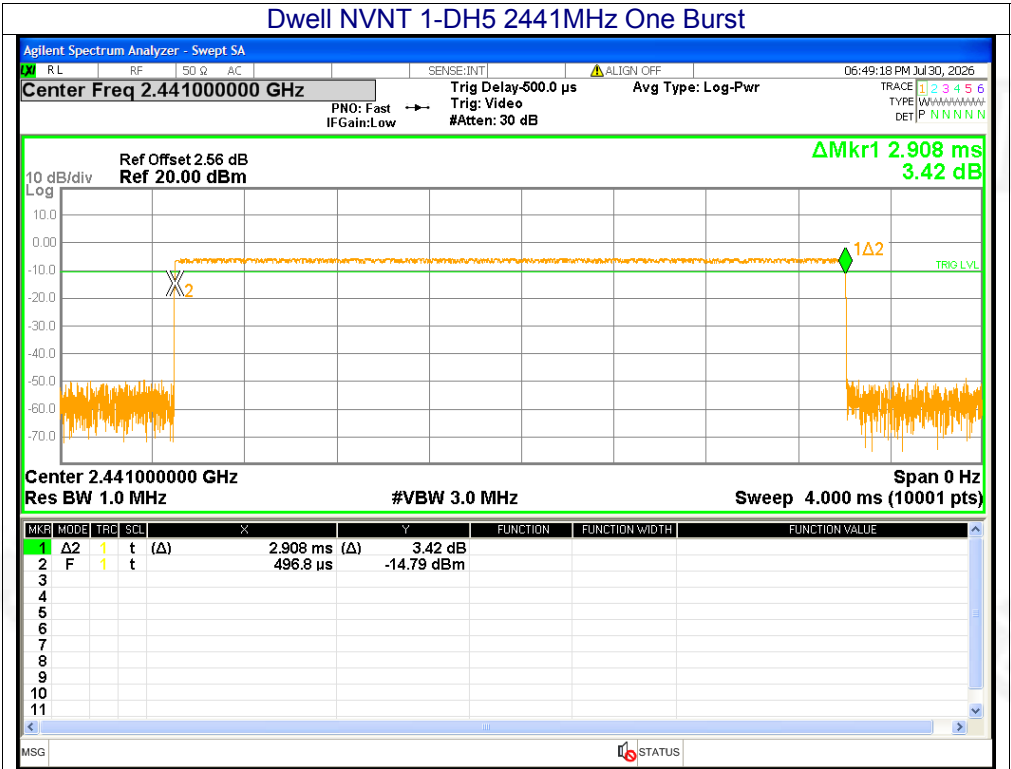
12. APPENDIX 1-TEST DATA

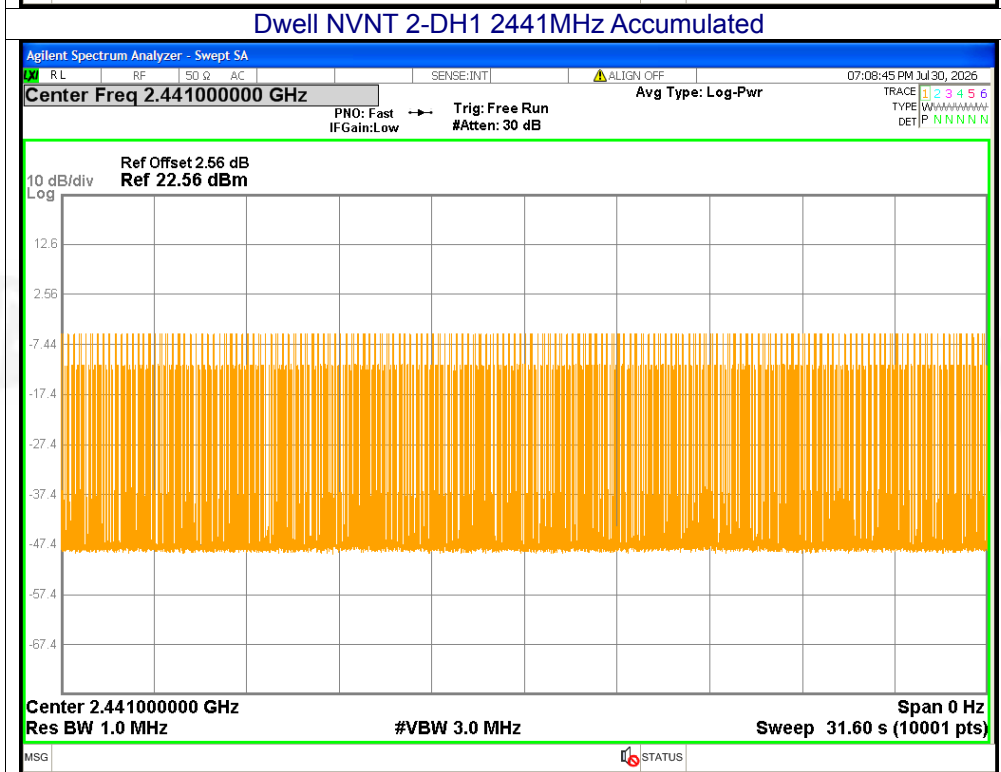
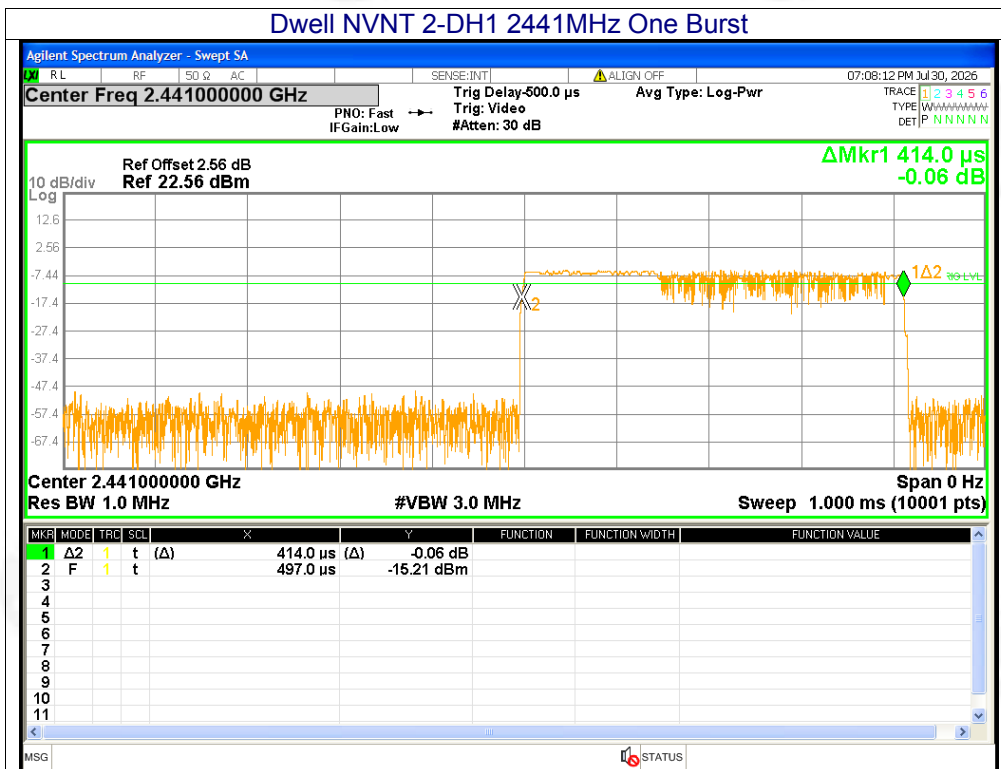
Dwell Time

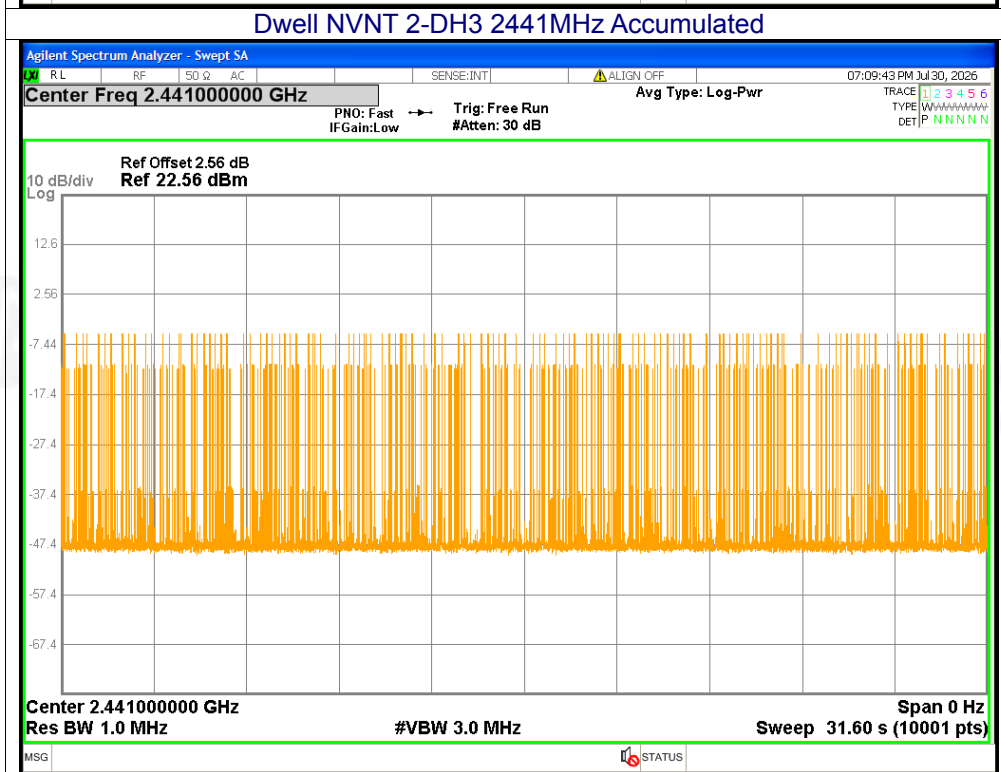
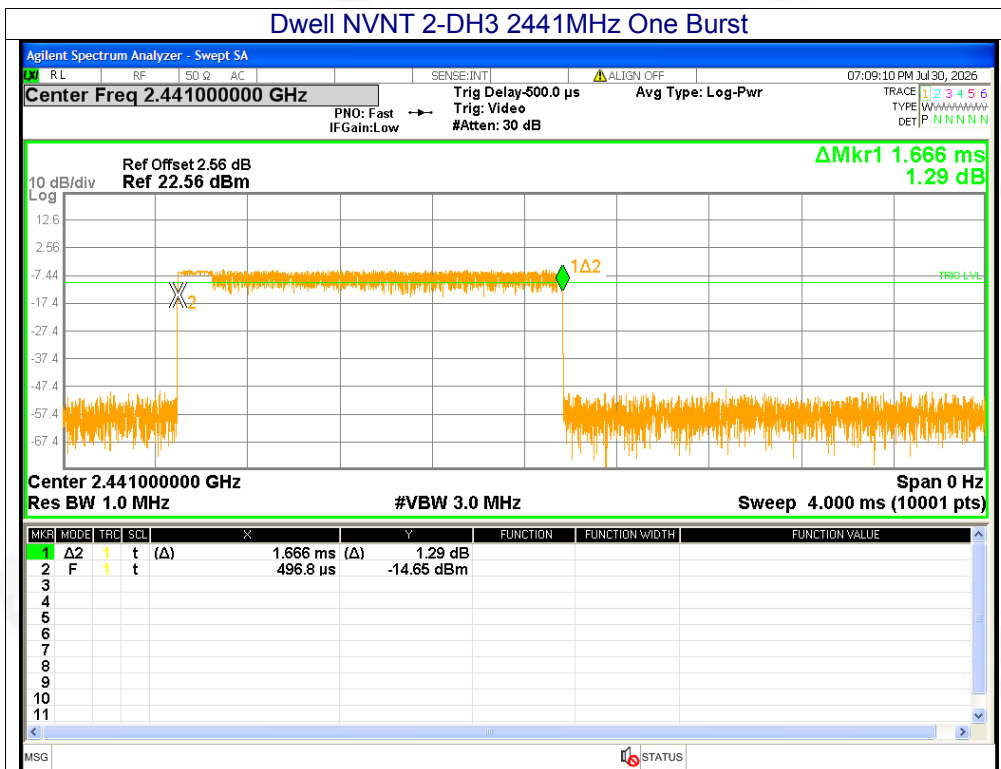
Condition	Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	0.404	127.664	316	31600	<=400	Pass
NVNT	1-DH3	2441	1.66	273.9	165	31600	<=400	Pass
NVNT	1-DH5	2441	2.908	299.524	103	31600	<=400	Pass
NVNT	2-DH1	2441	0.414	131.652	318	31600	<=400	Pass
NVNT	2-DH3	2441	1.666	256.564	154	31600	<=400	Pass
NVNT	2-DH5	2441	2.914	294.314	101	31600	<=400	Pass
NVNT	3-DH1	2441	0.416	131.872	317	31600	<=400	Pass
NVNT	3-DH3	2441	1.666	274.89	165	31600	<=400	Pass
NVNT	3-DH5	2441	2.917	326.704	112	31600	<=400	Pass

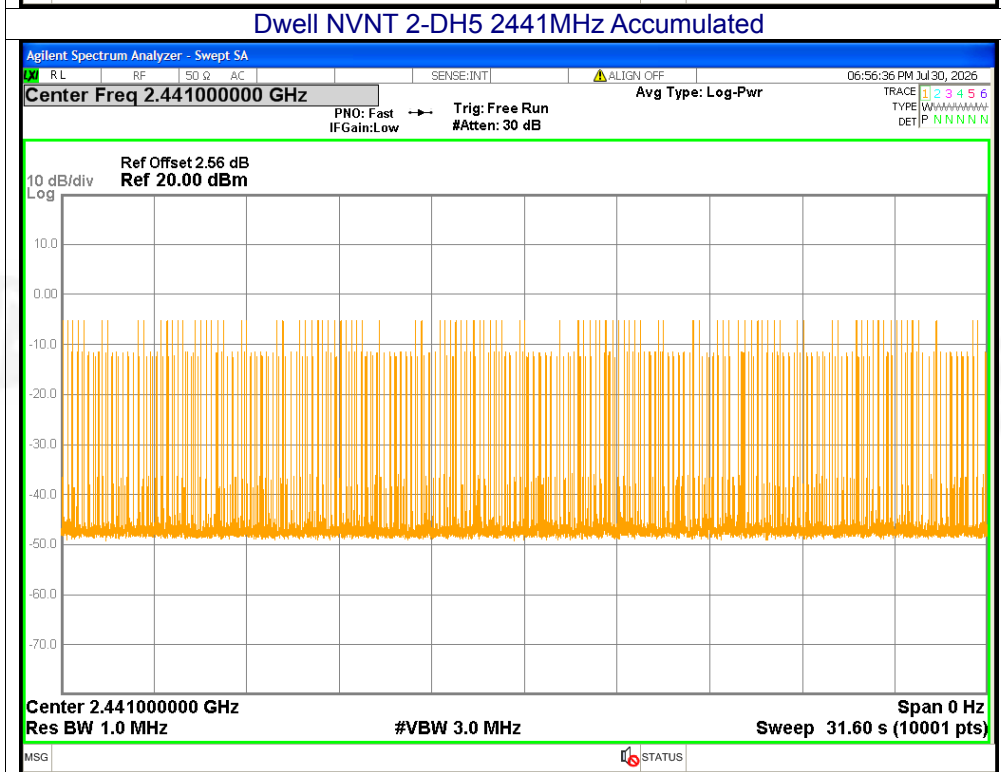
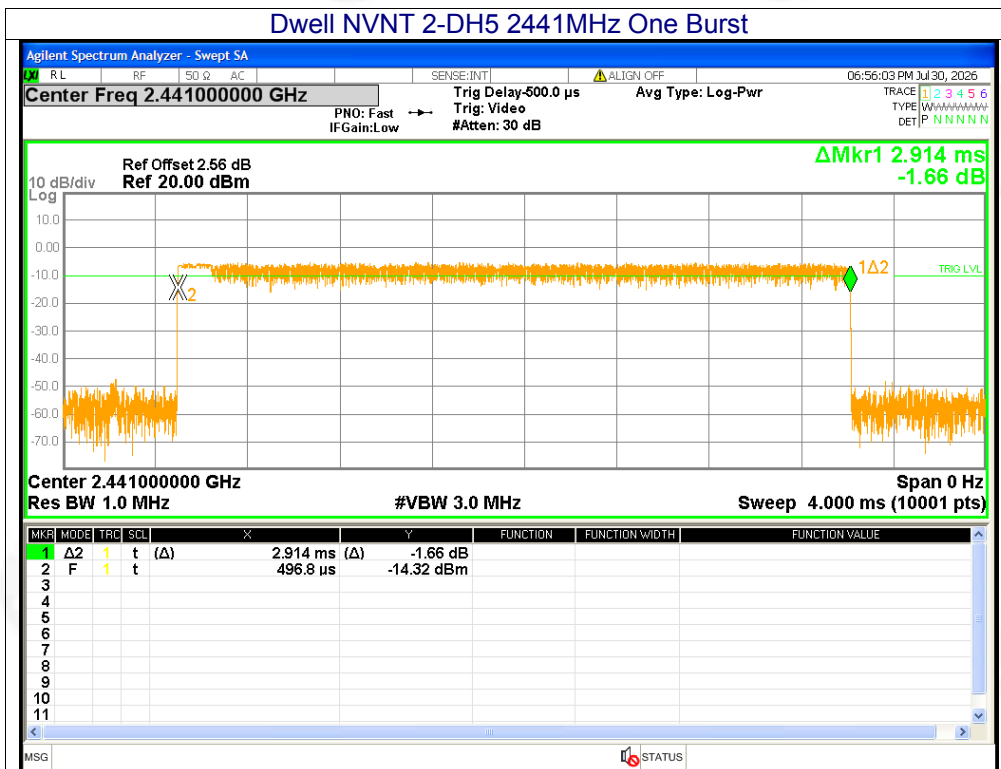


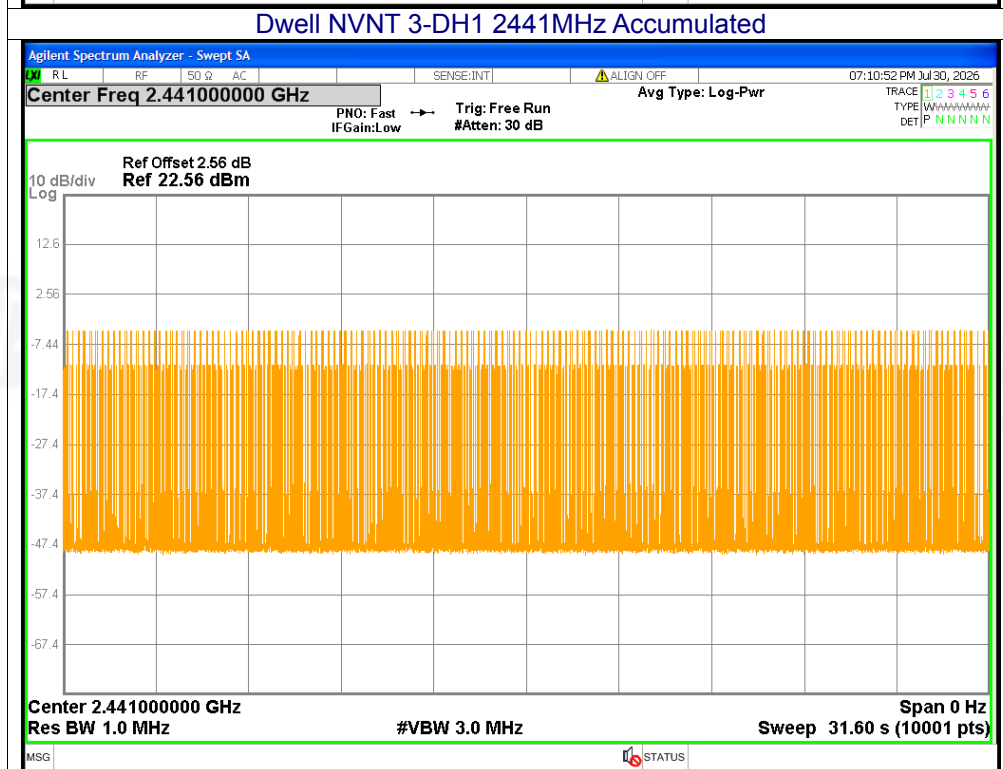
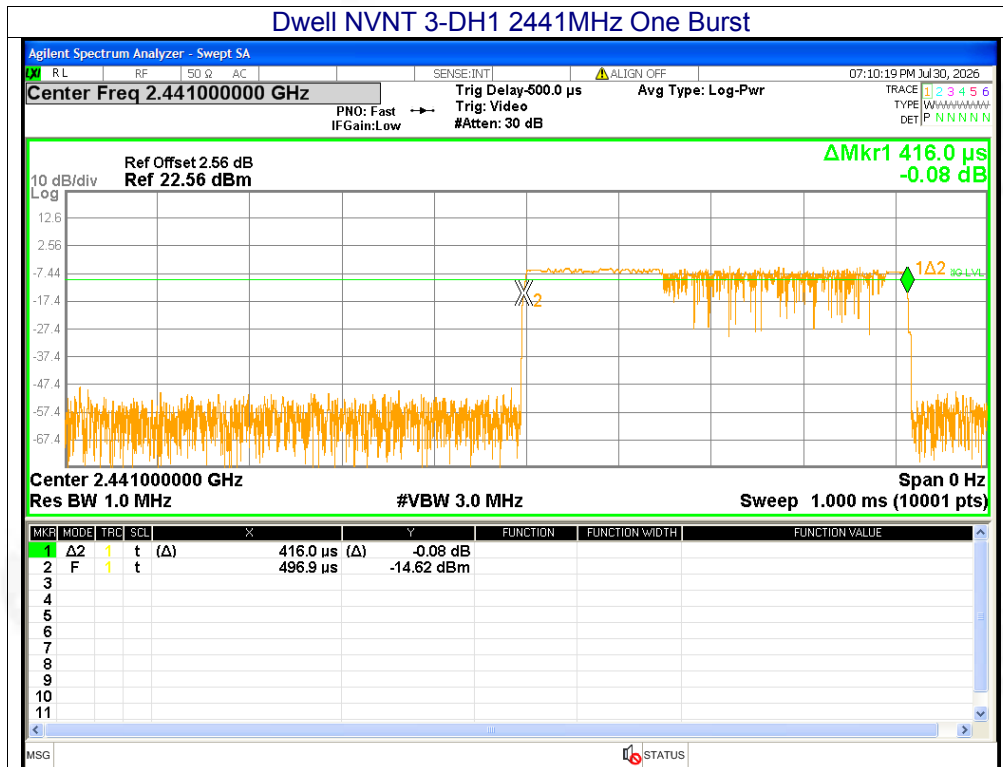


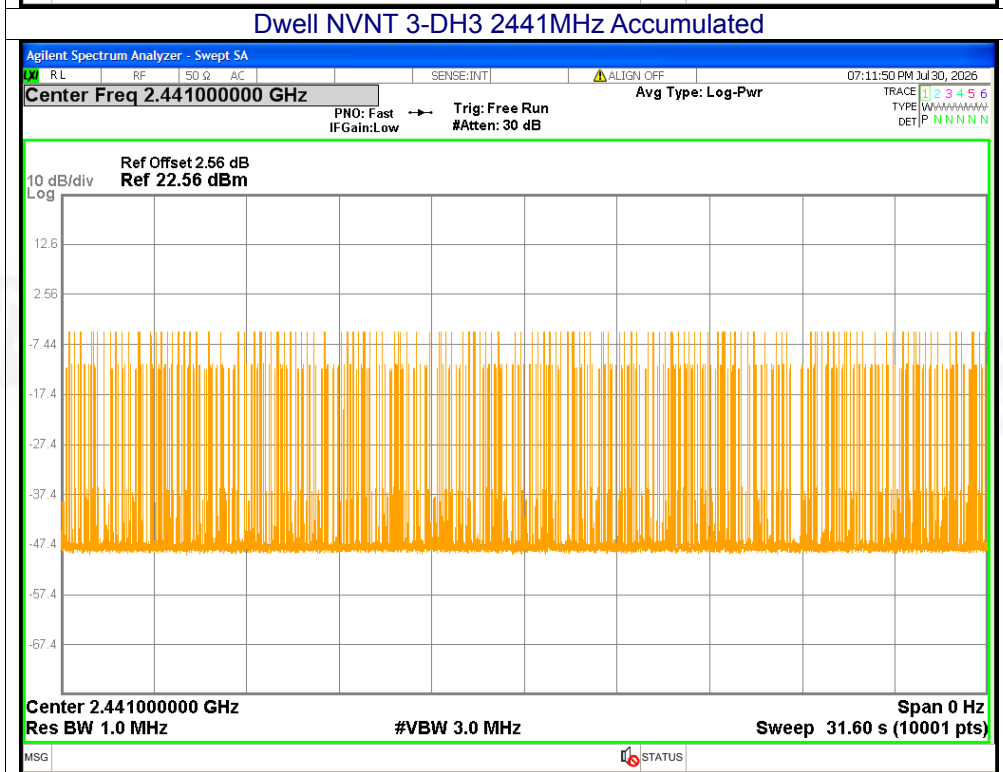
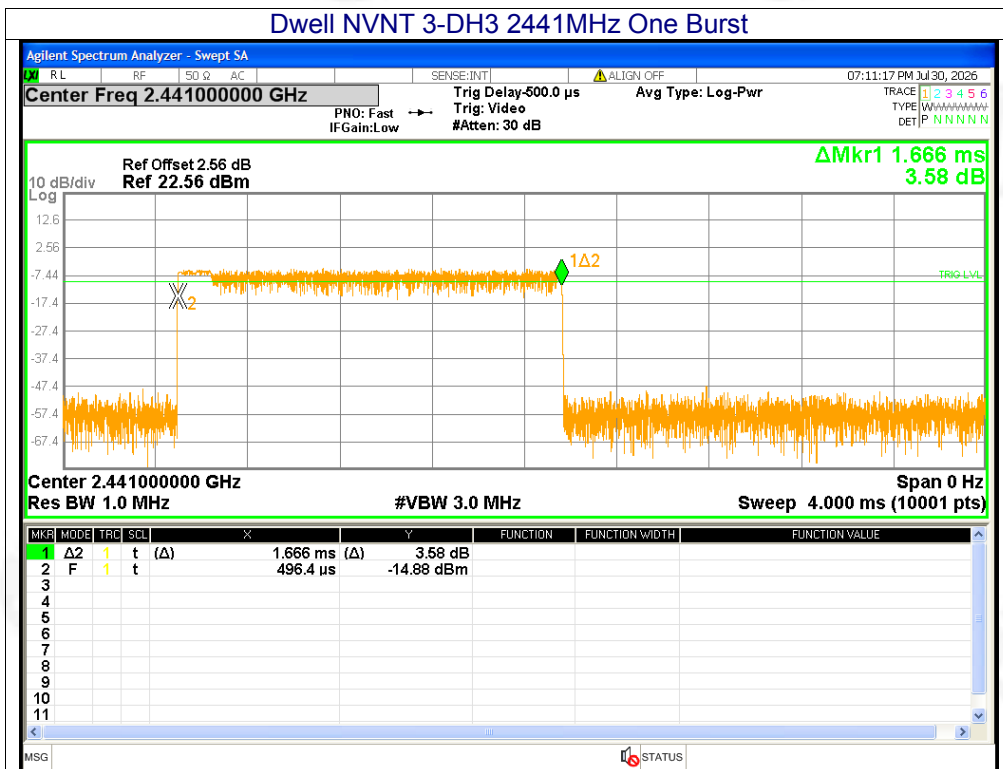


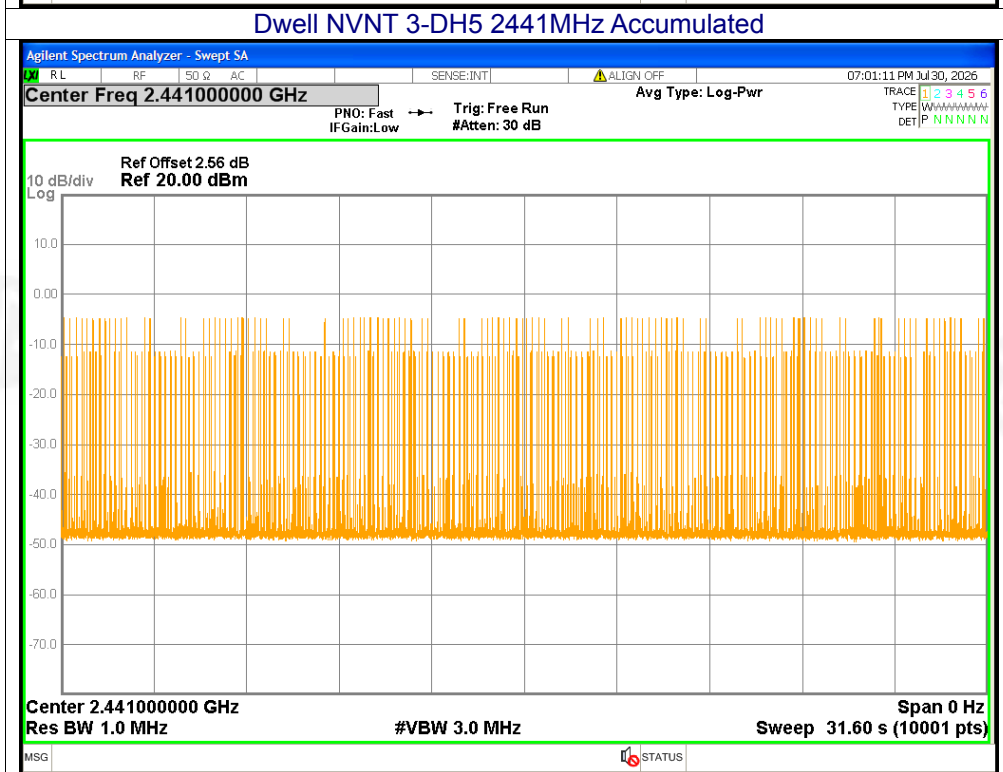
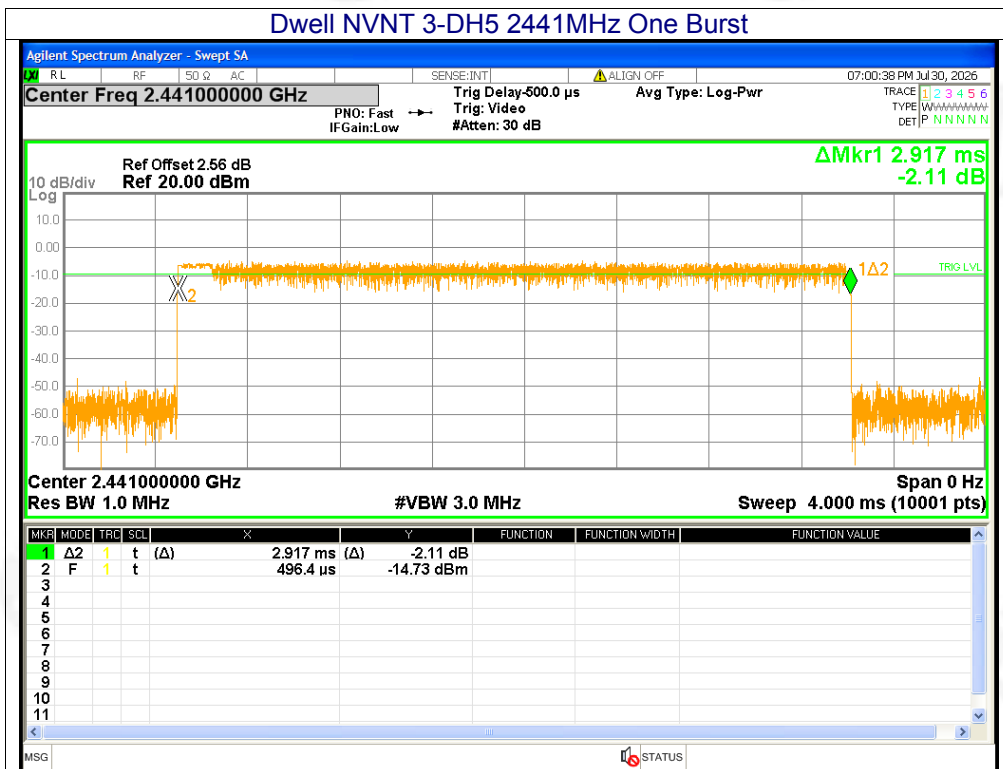












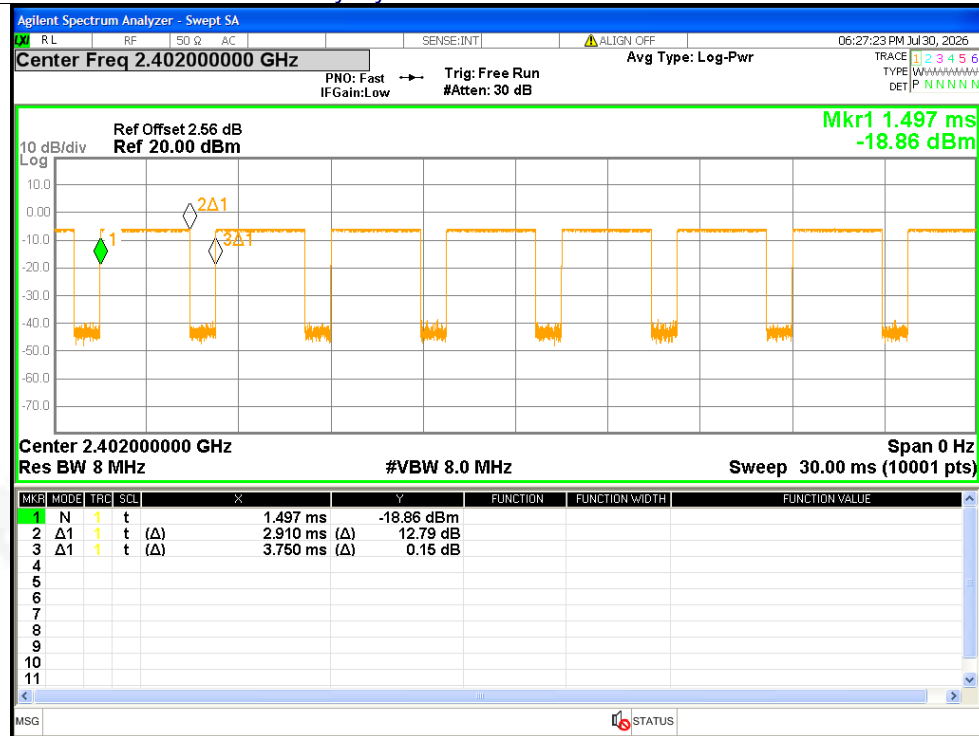


Duty Cycle

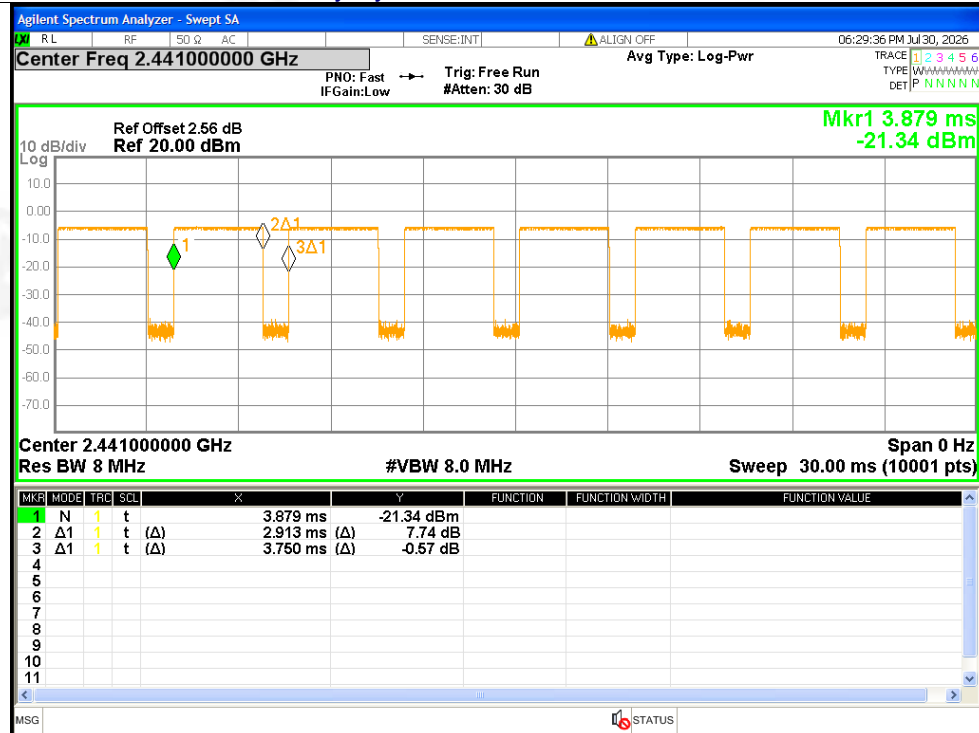
Condition	Mode	Frequency (MHz)	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	2.91	3.75	77.6	1.1	0.34
NVNT	1-DH5	2441	2.913	3.75	77.68	1.1	0.34
NVNT	1-DH5	2480	2.91	3.75	77.6	1.1	0.34
NVNT	2-DH5	2402	2.916	3.75	77.76	1.09	0.34
NVNT	2-DH5	2441	2.916	3.75	77.76	1.09	0.34
NVNT	2-DH5	2480	2.916	3.75	77.76	1.09	0.34
NVNT	3-DH5	2402	2.919	3.75	77.84	1.09	0.34
NVNT	3-DH5	2441	2.919	3.75	77.84	1.09	0.34
NVNT	3-DH5	2480	2.919	3.75	77.84	1.09	0.34

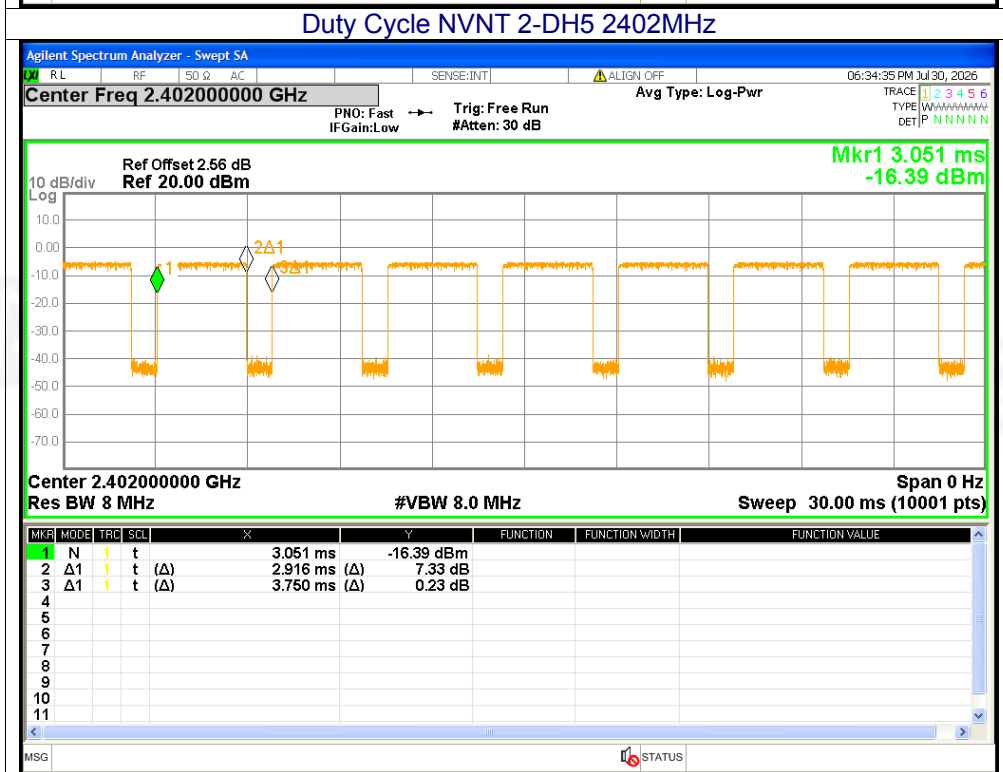
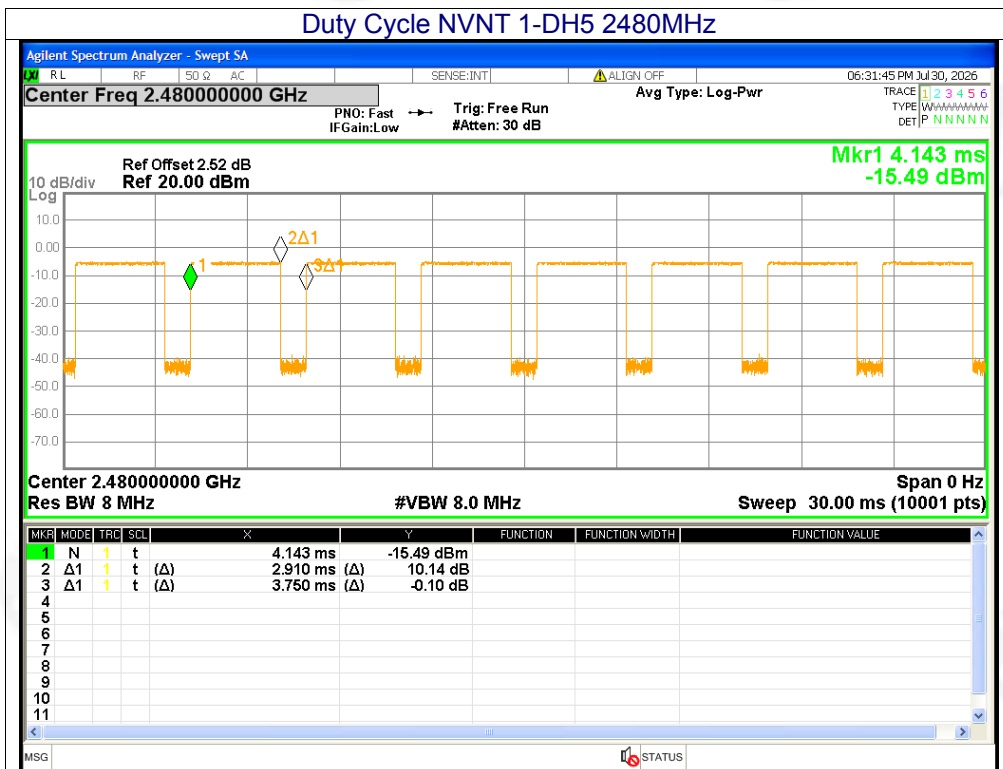


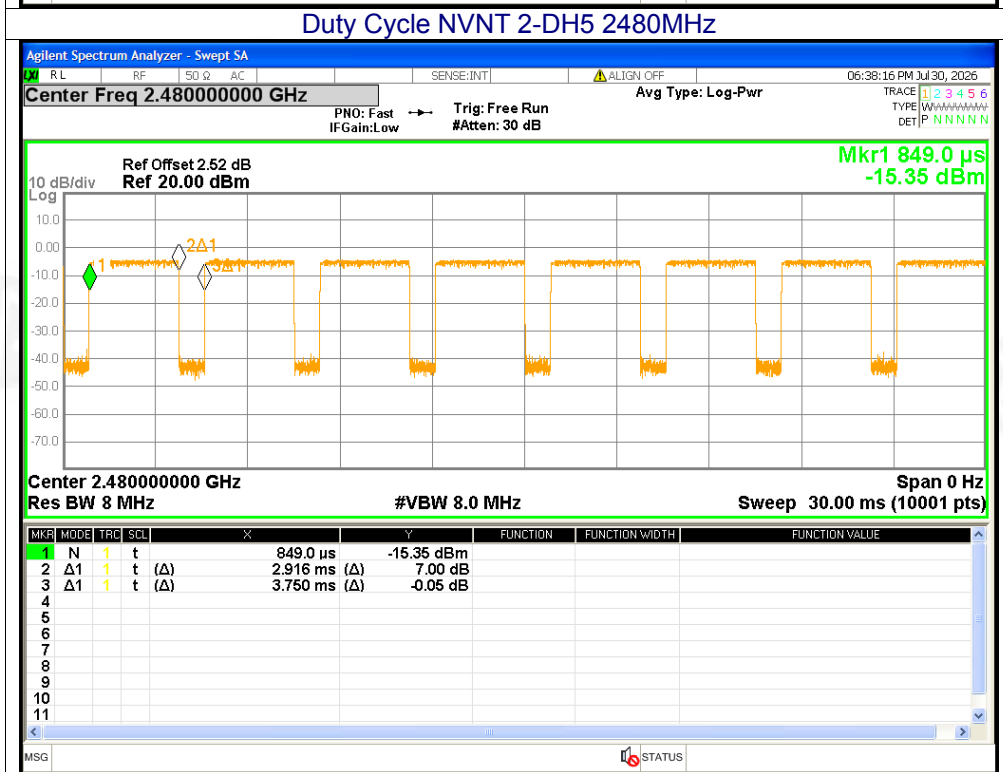
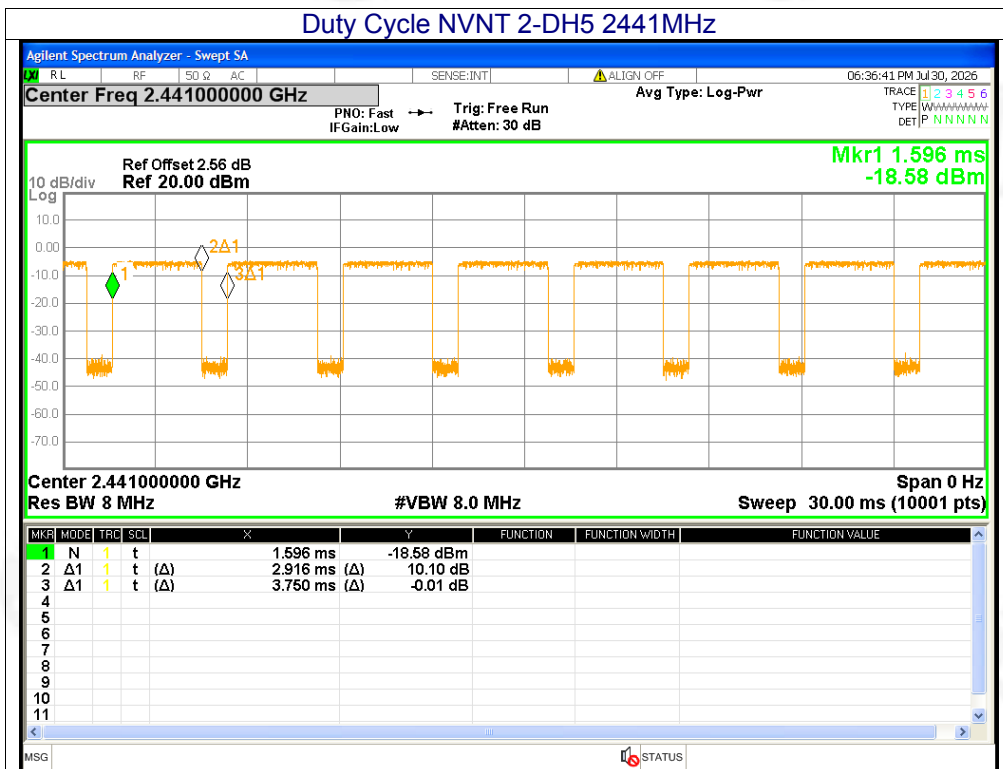
Test Graphs Duty Cycle NVNT 1-DH5 2402MHz

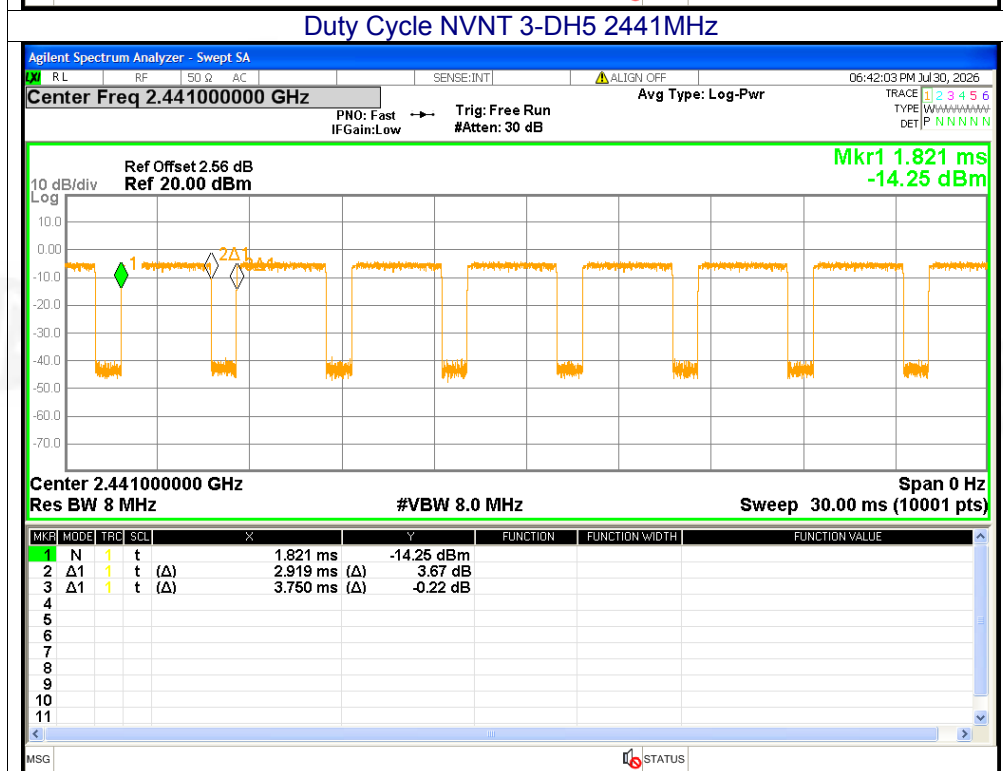
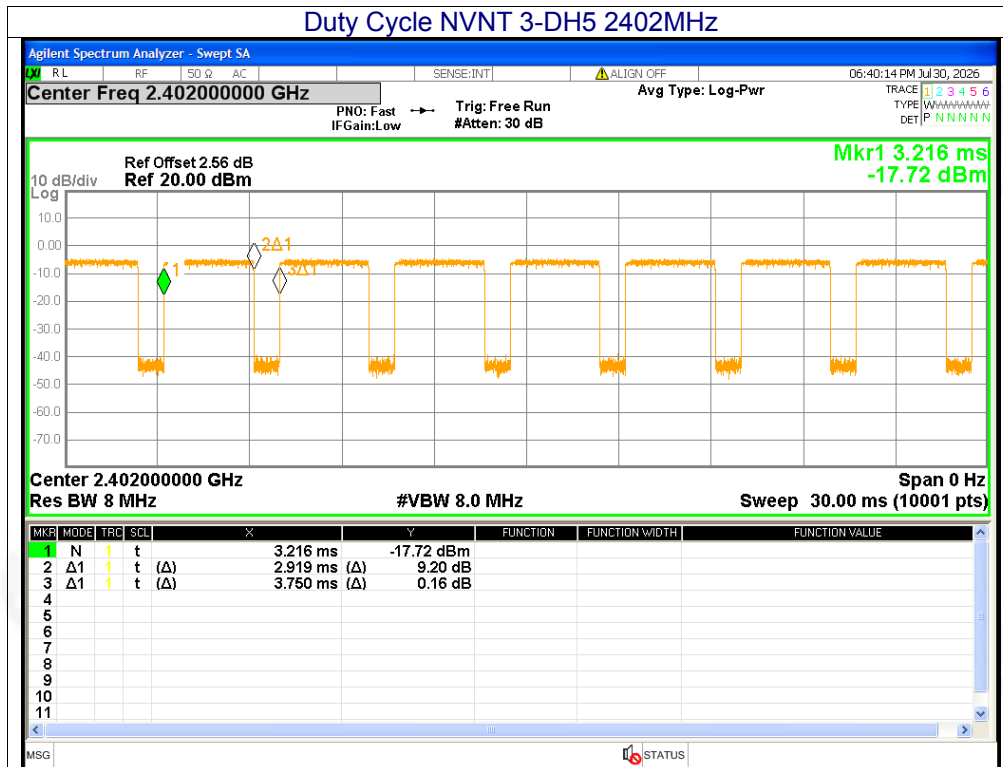


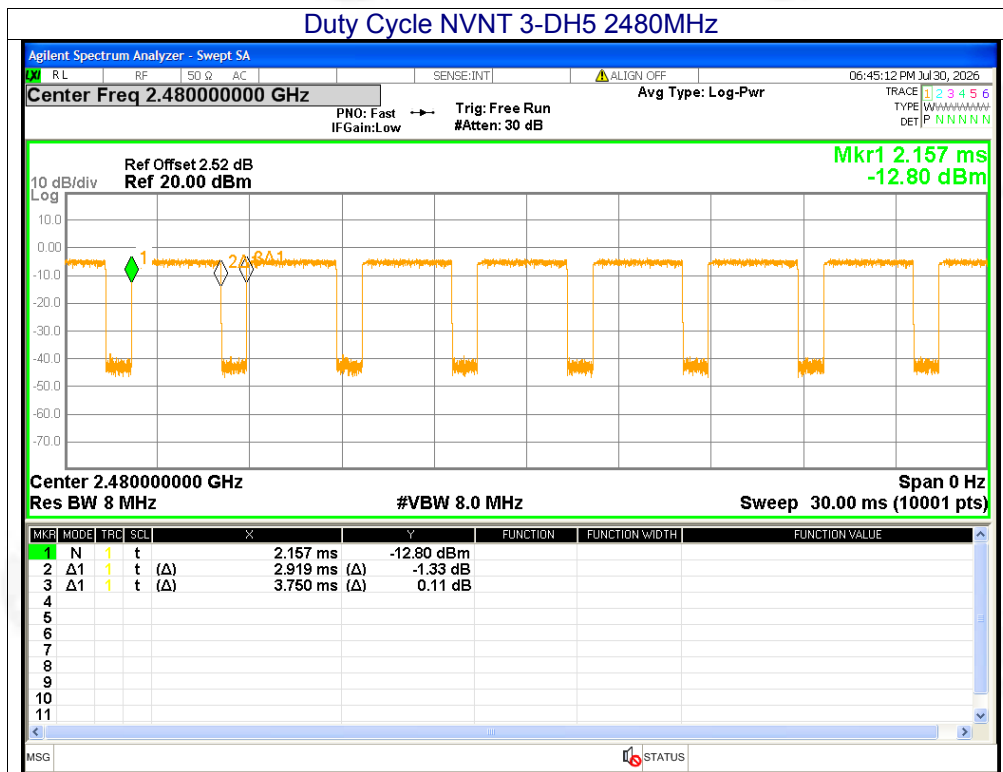
Duty Cycle NVNT 1-DH5 2441MHz







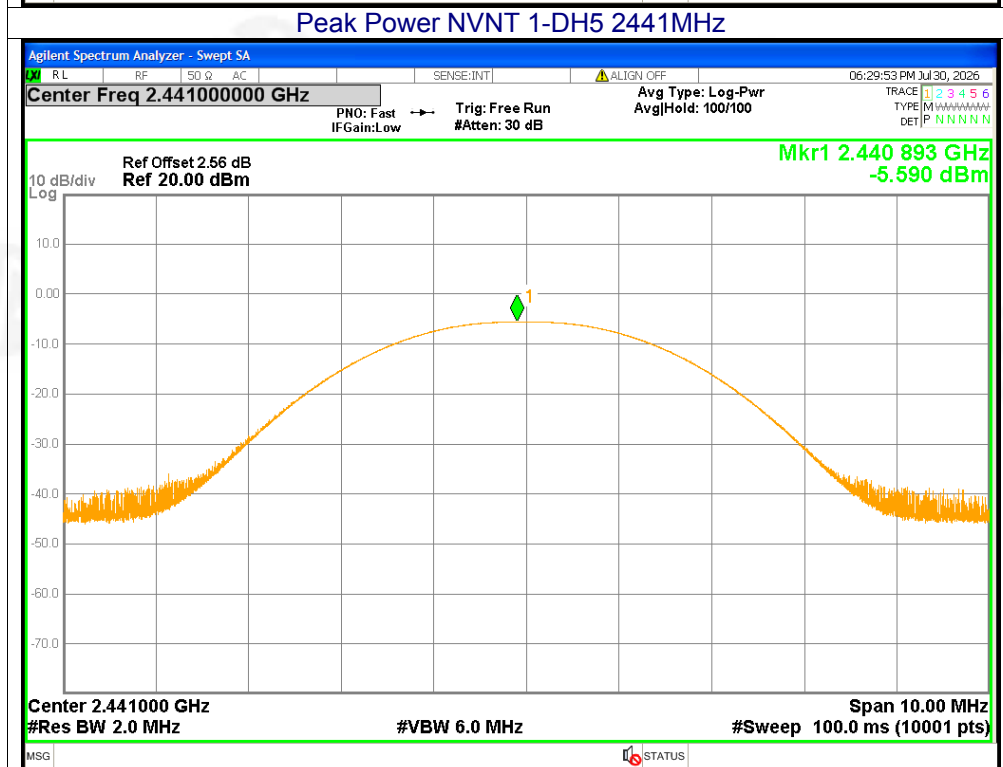
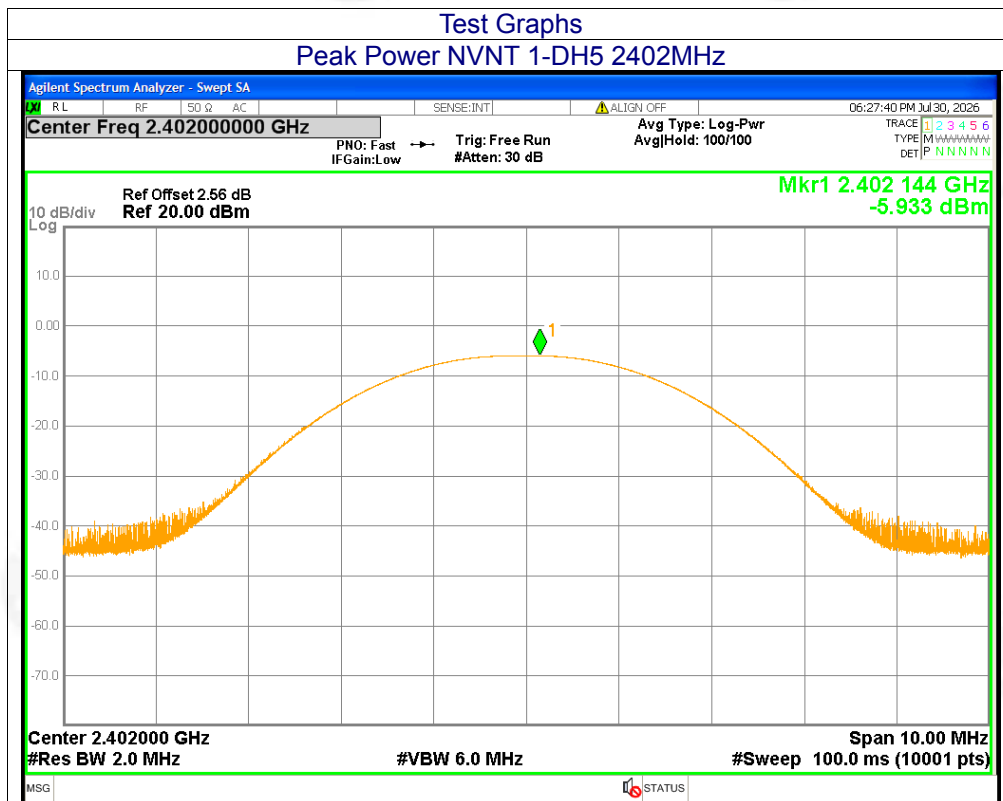


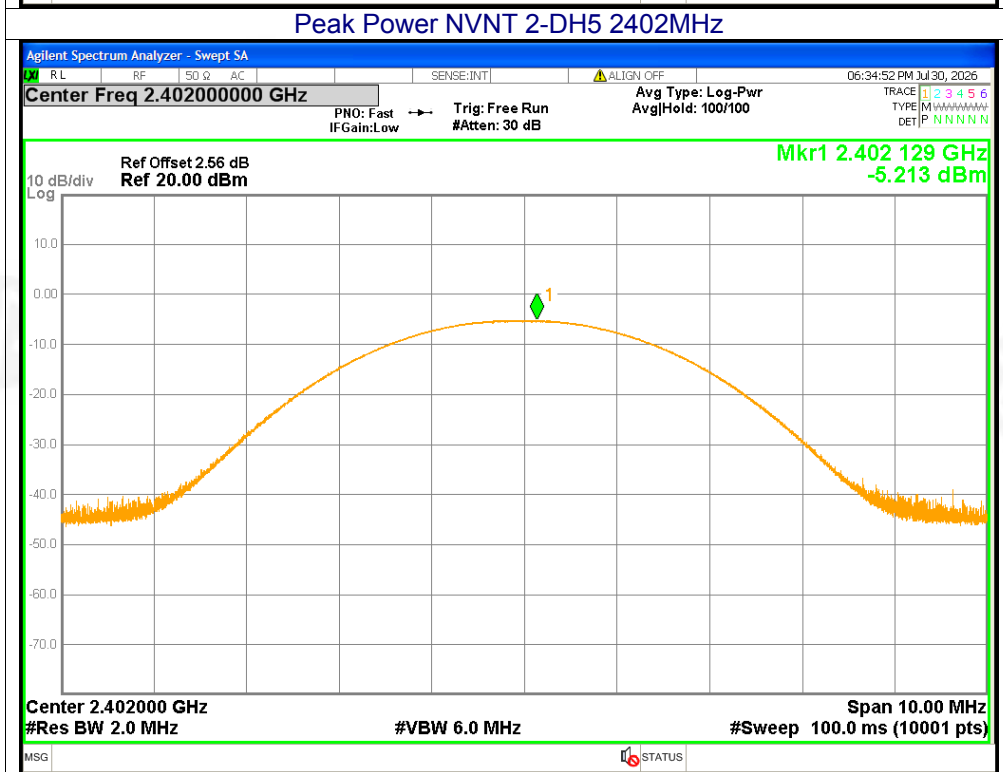
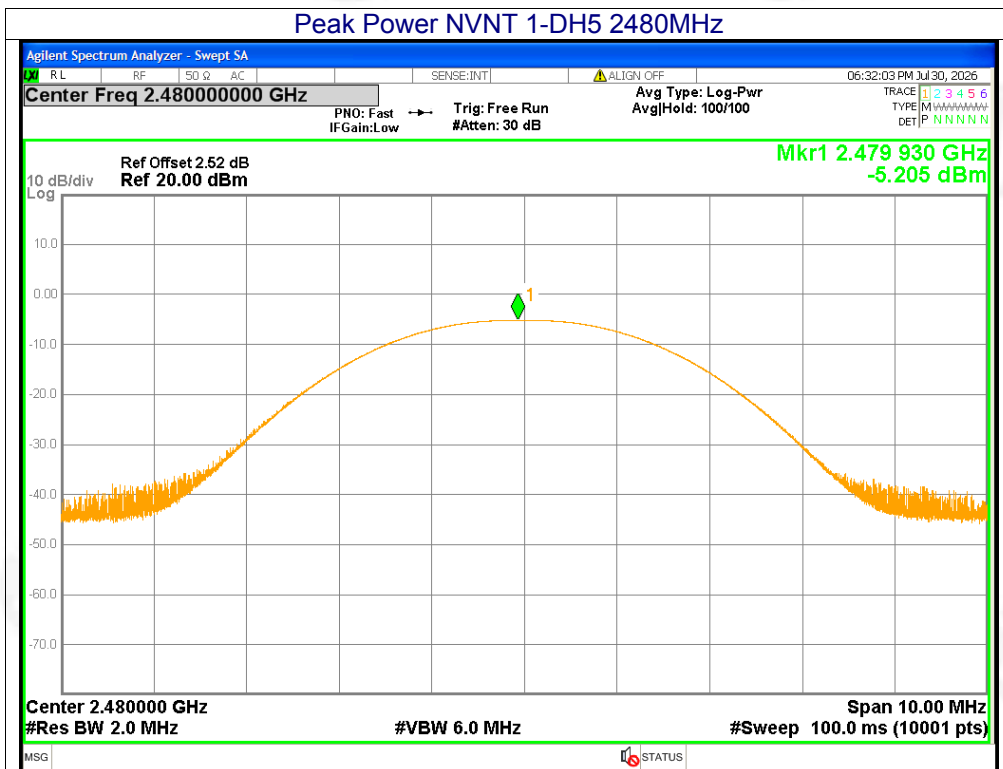


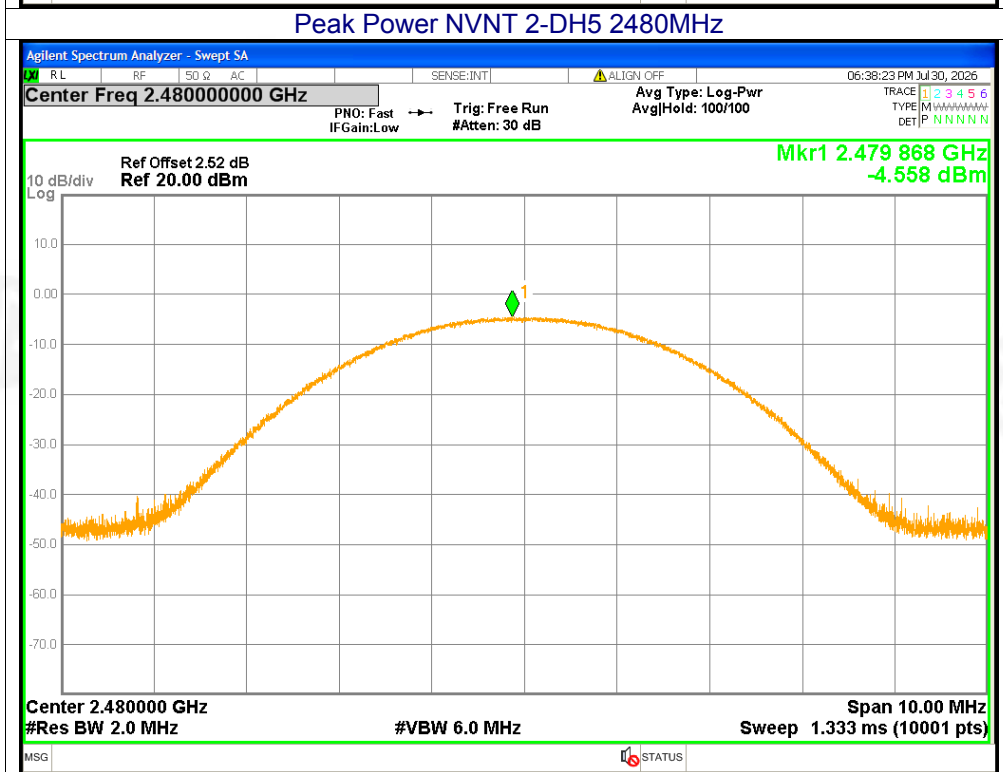
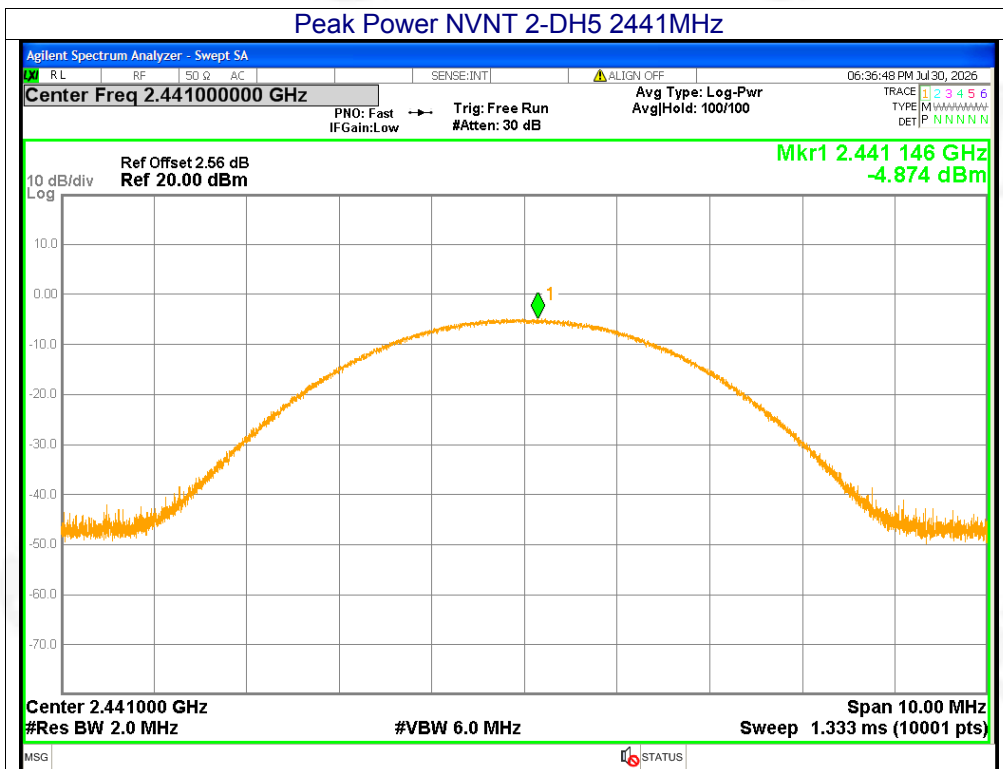


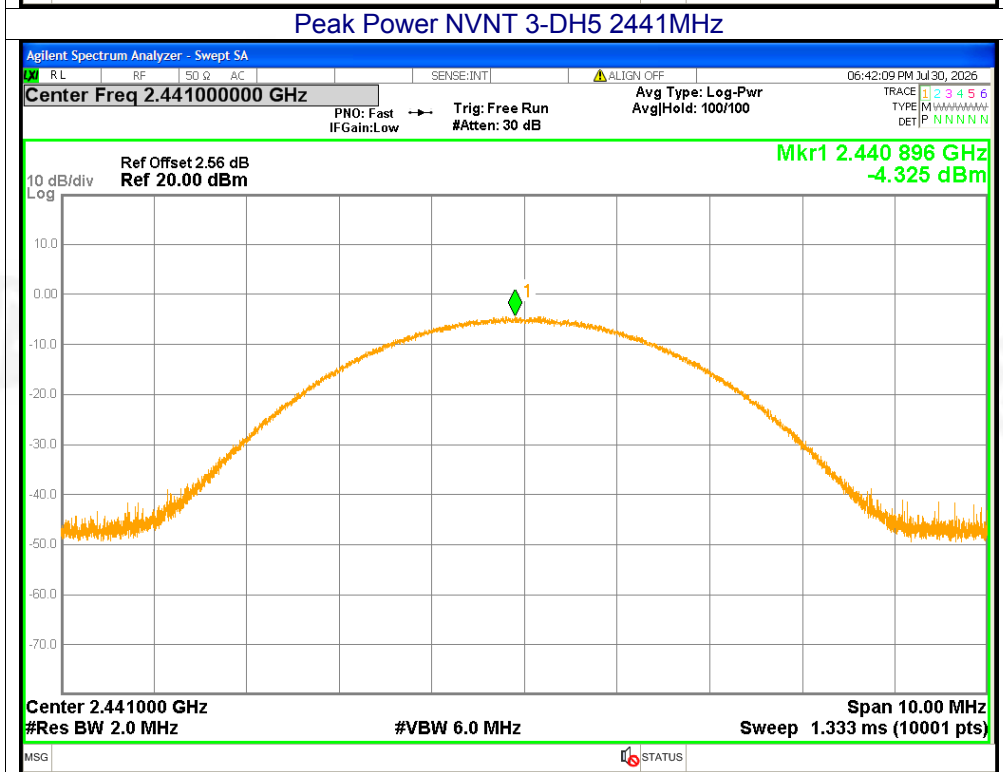
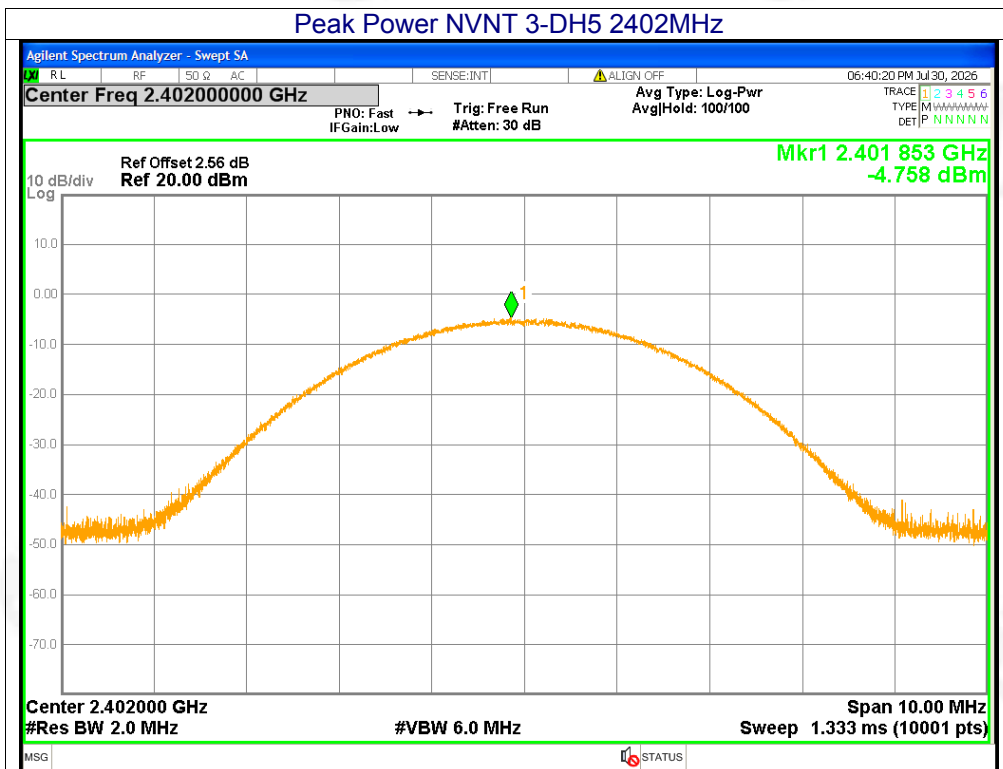
Maximum Peak Conducted Output Power

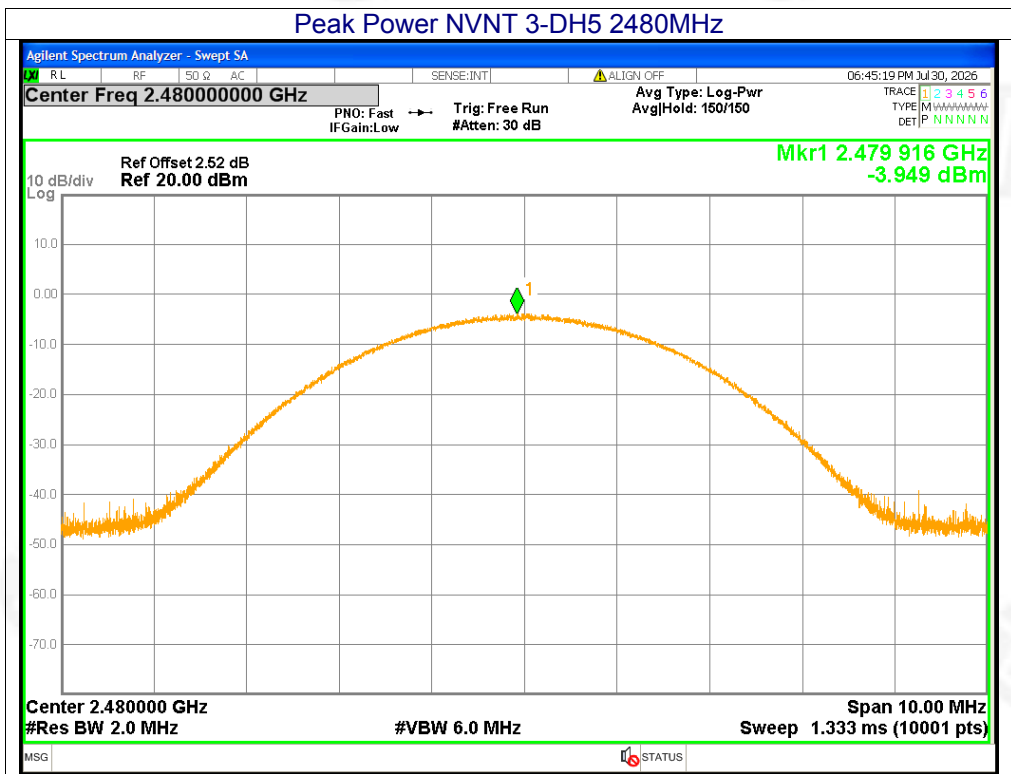
Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	-5.93	<=30	Pass
NVNT	1-DH5	2441	-5.59	<=30	Pass
NVNT	1-DH5	2480	-5.21	<=30	Pass
NVNT	2-DH5	2402	-5.21	<=21	Pass
NVNT	2-DH5	2441	-4.87	<=21	Pass
NVNT	2-DH5	2480	-4.56	<=21	Pass
NVNT	3-DH5	2402	-4.76	<=21	Pass
NVNT	3-DH5	2441	-4.33	<=21	Pass
NVNT	3-DH5	2480	-3.95	<=21	Pass













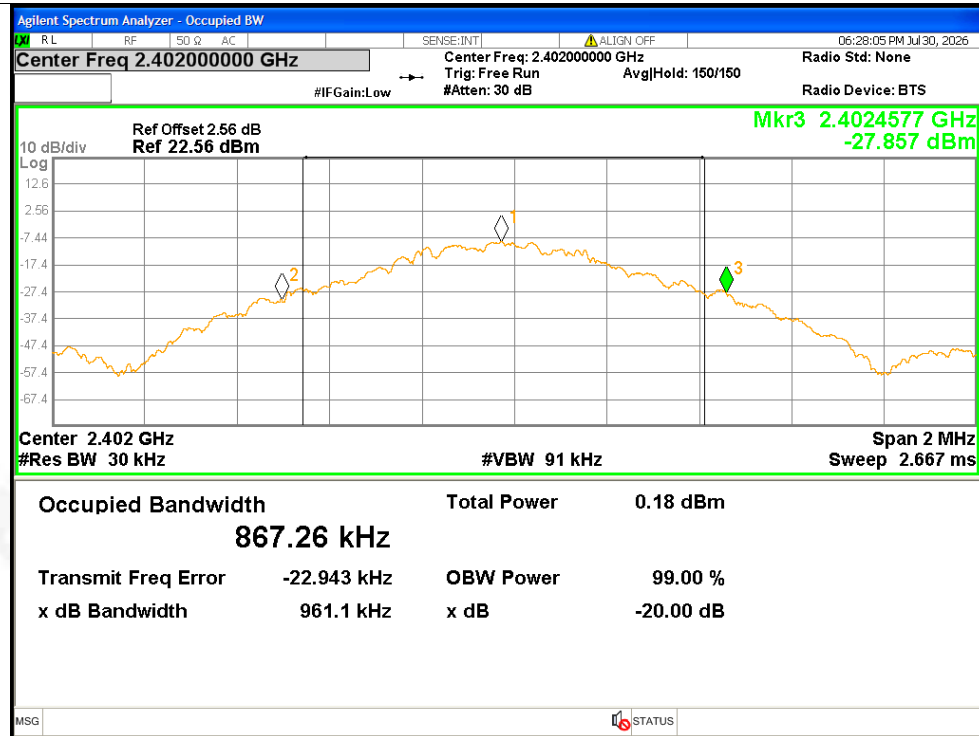
-20dB Bandwidth

Condition	Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	0.9611	Pass
NVNT	1-DH5	2441	0.9501	Pass
NVNT	1-DH5	2480	0.9662	Pass
NVNT	2-DH5	2402	1.27	Pass
NVNT	2-DH5	2441	1.314	Pass
NVNT	2-DH5	2480	1.265	Pass
NVNT	3-DH5	2402	1.28	Pass
NVNT	3-DH5	2441	1.306	Pass
NVNT	3-DH5	2480	1.269	Pass

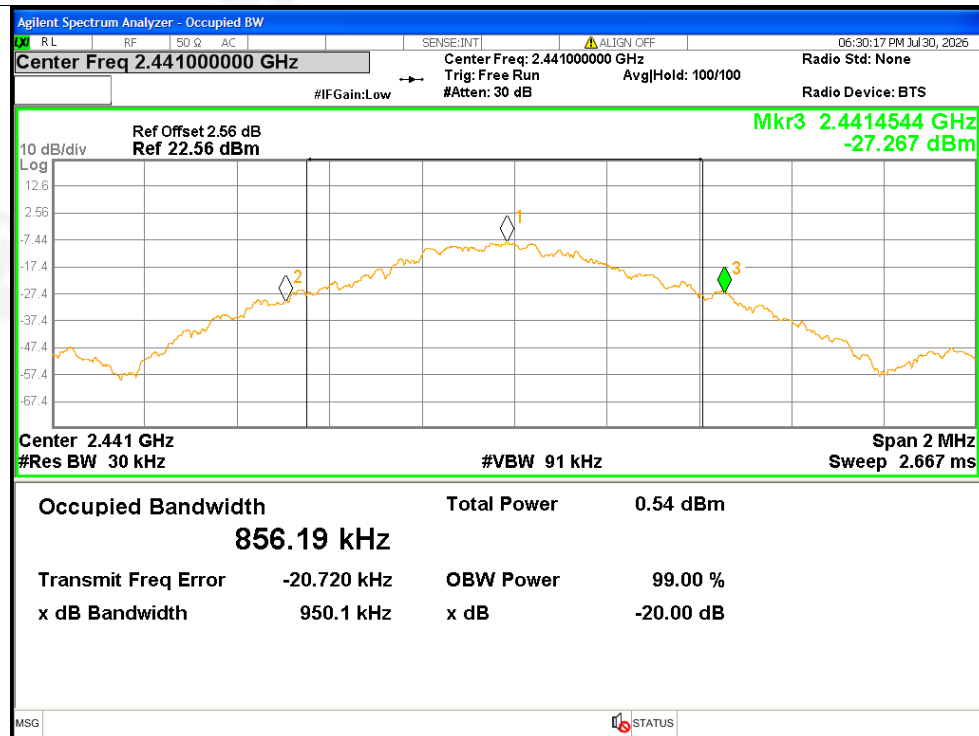


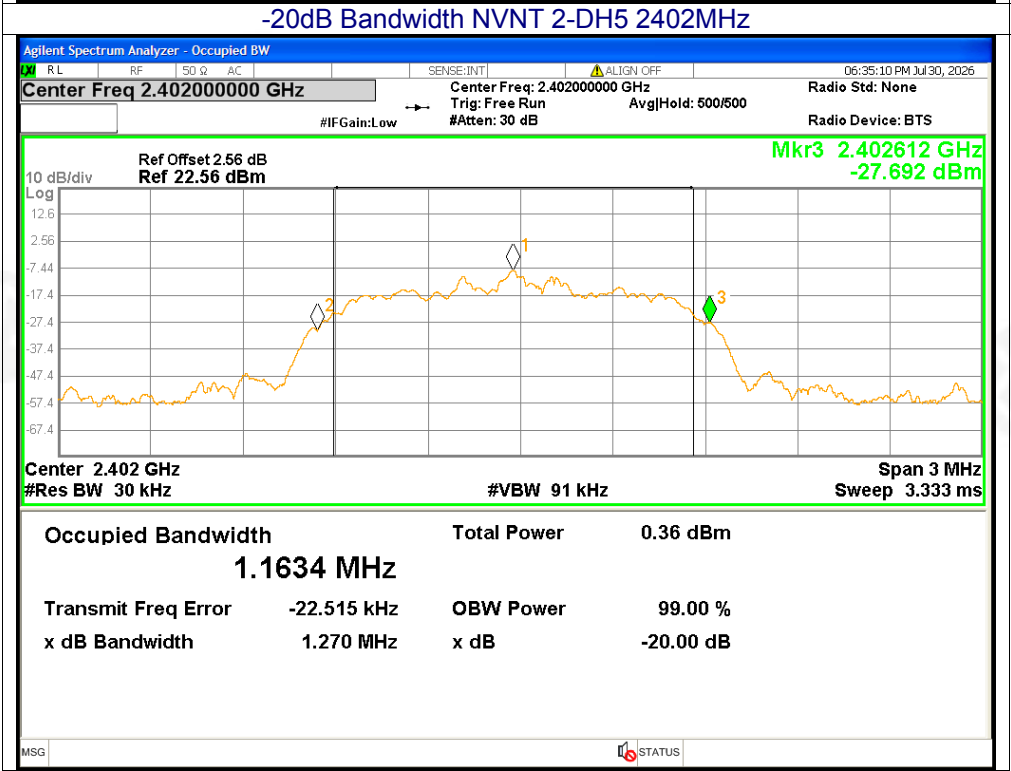
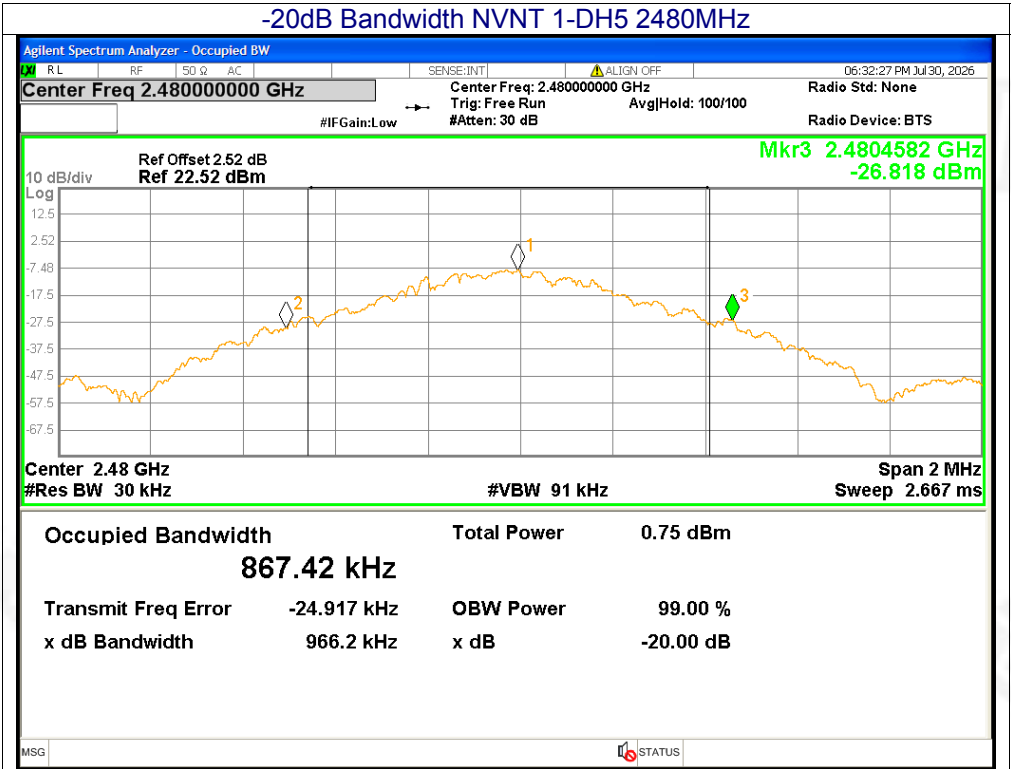
Test Graphs

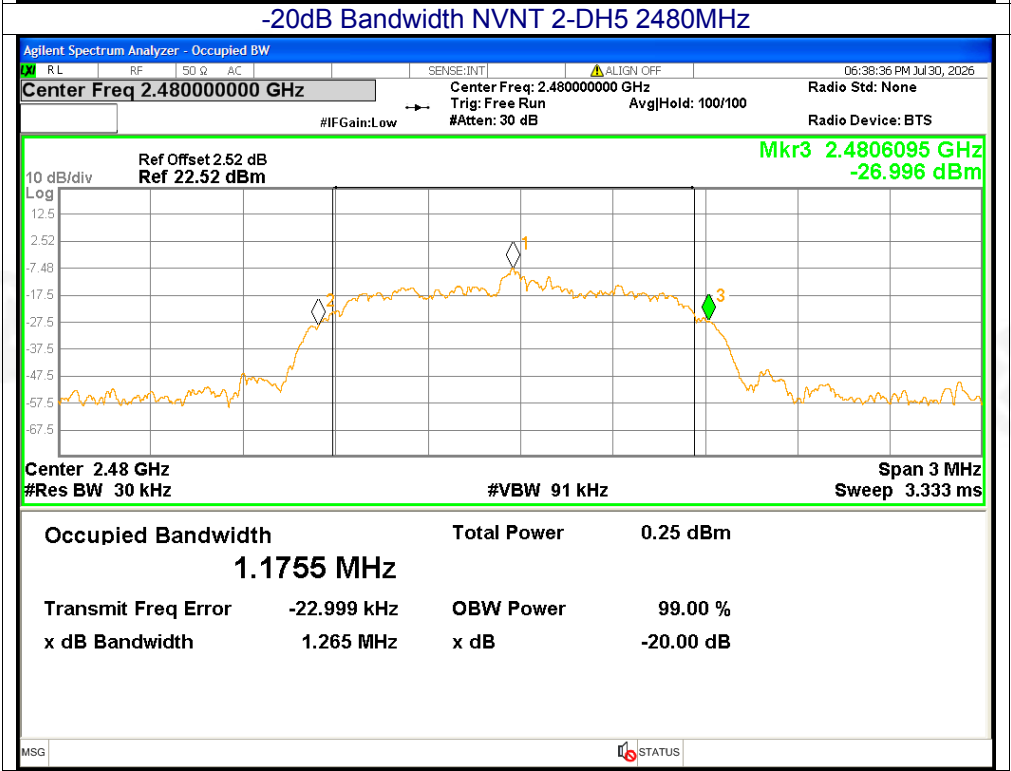
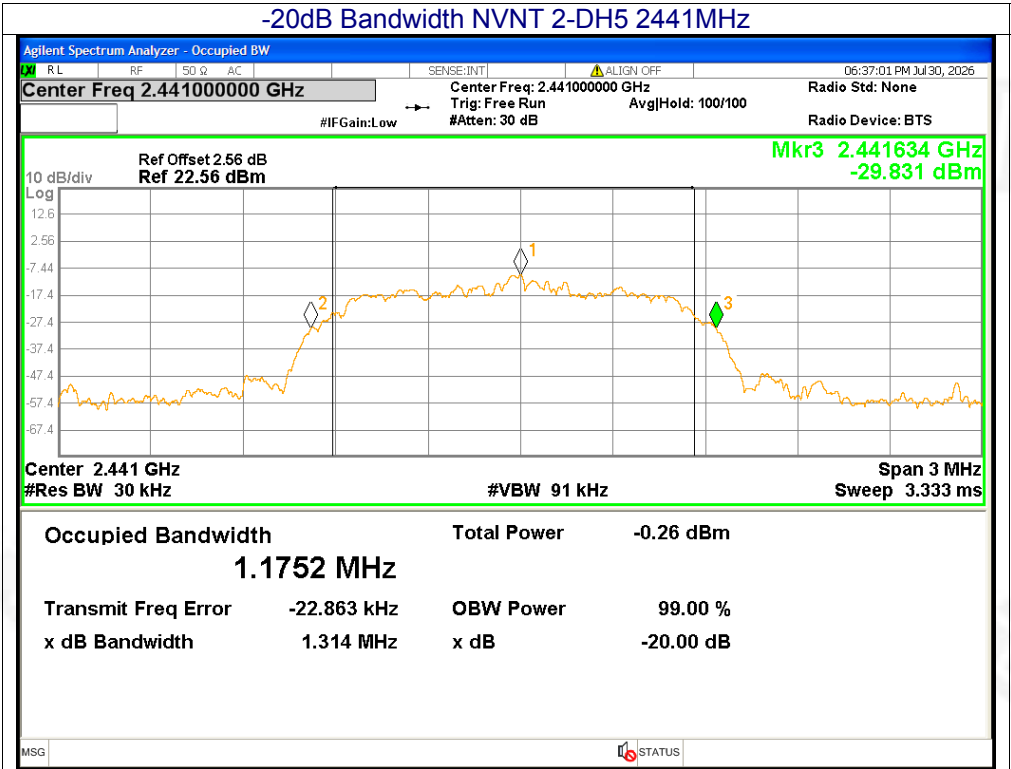
-20dB Bandwidth NVNT 1-DH5 2402MHz

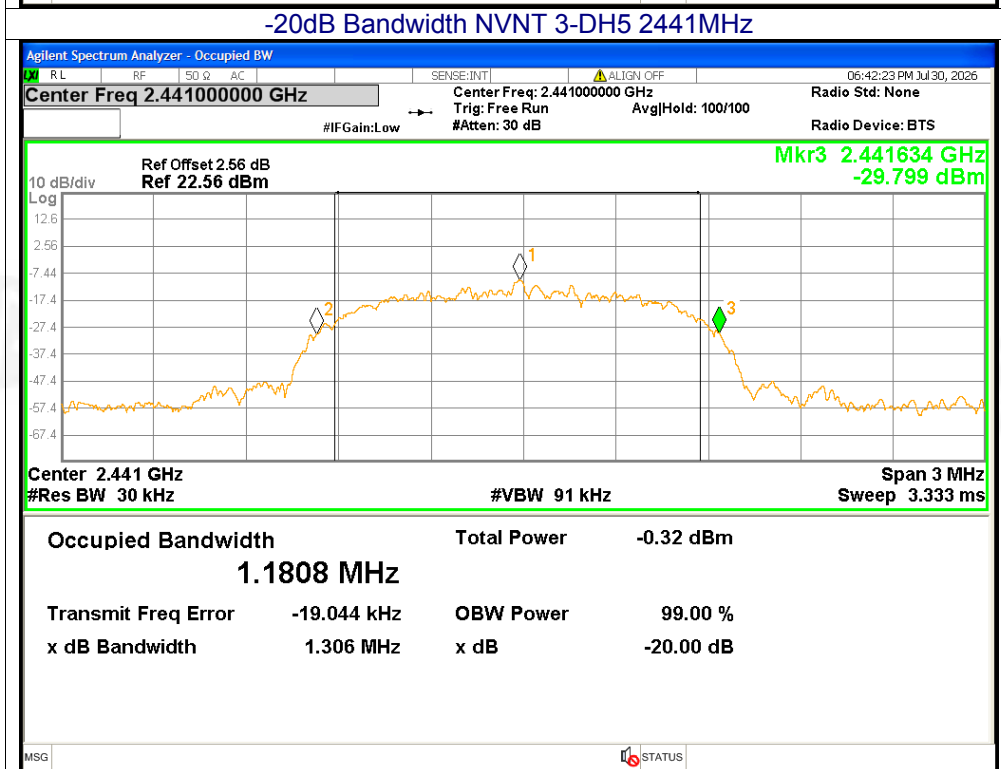
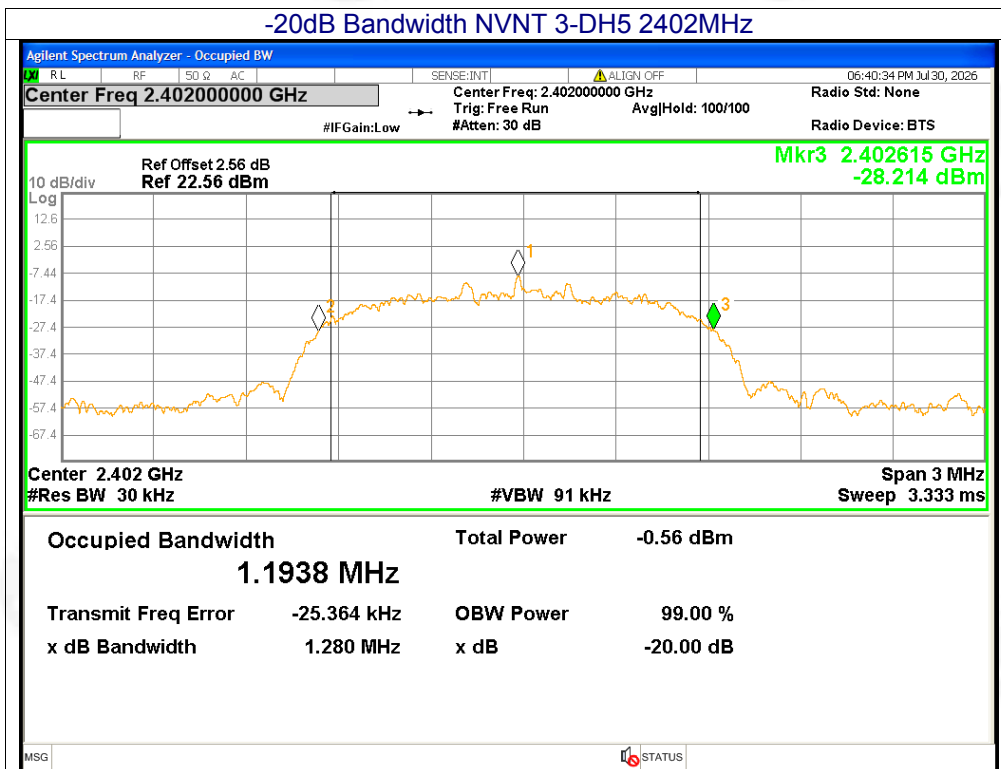


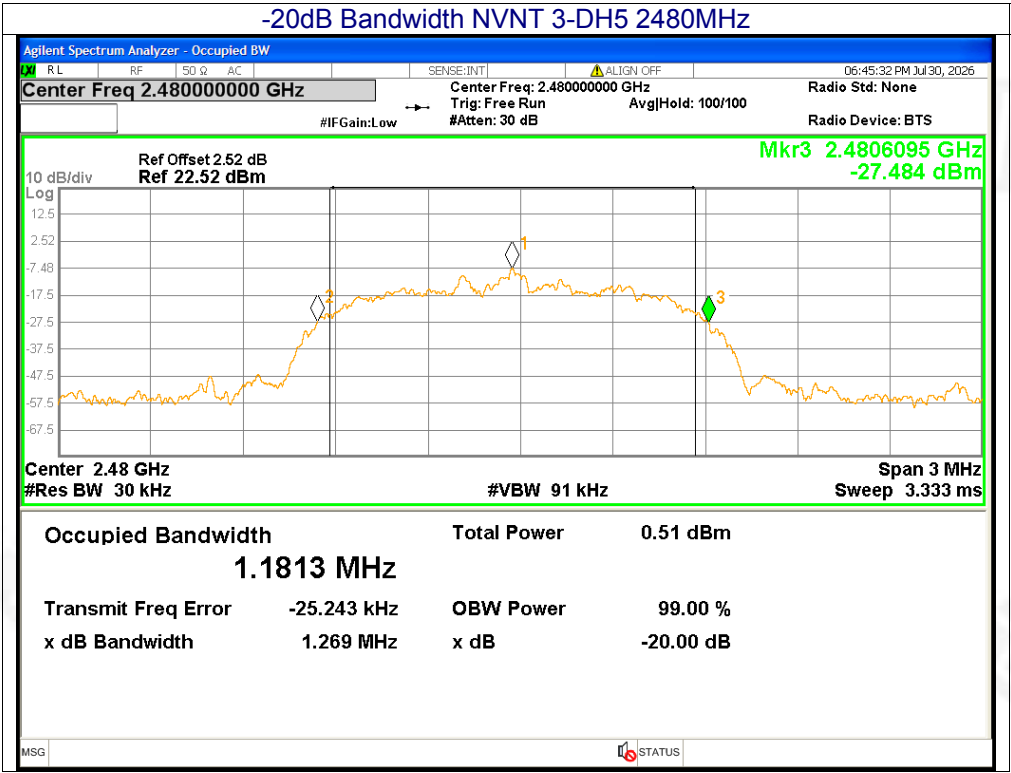
-20dB Bandwidth NVNT 1-DH5 2441MHz







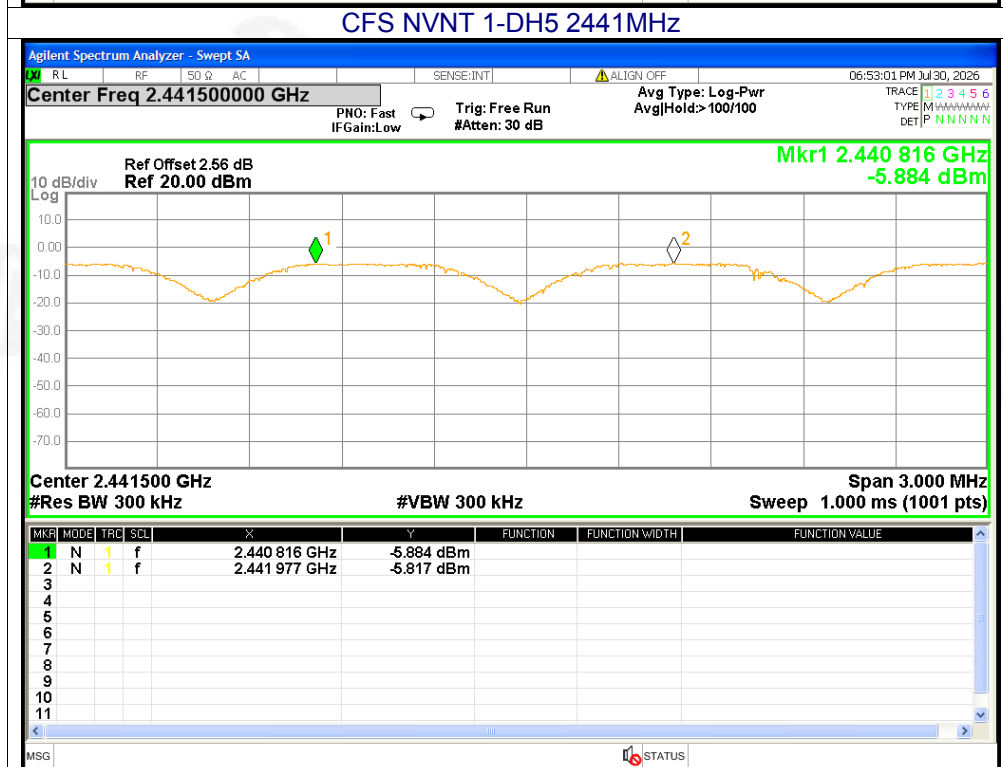
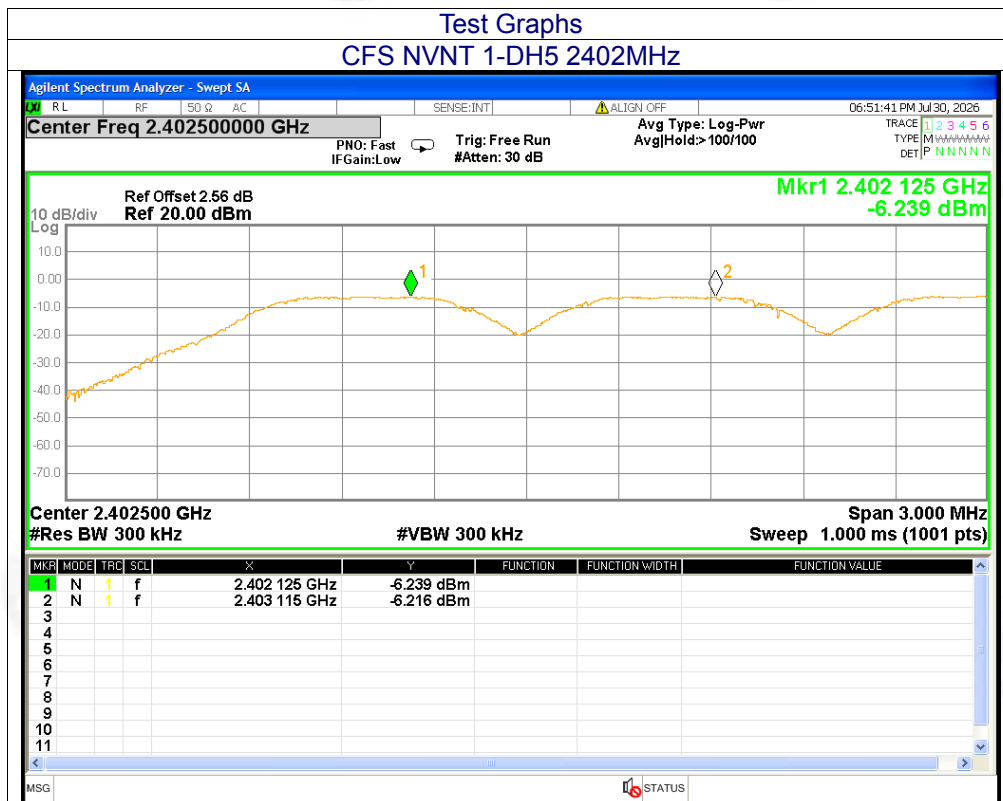


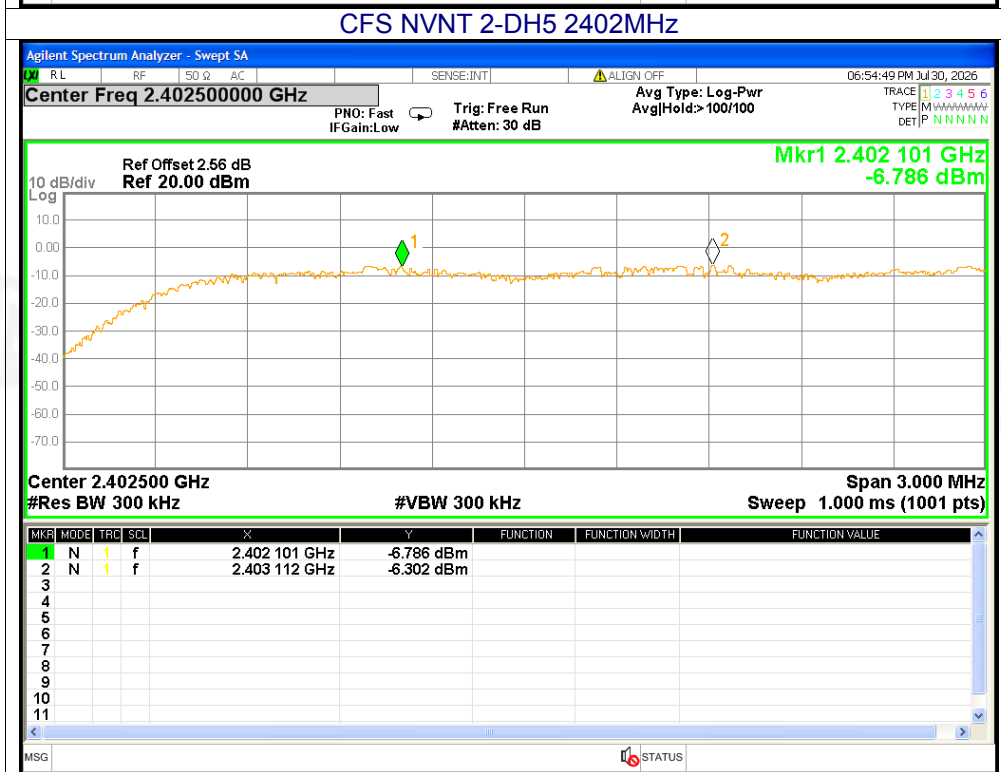
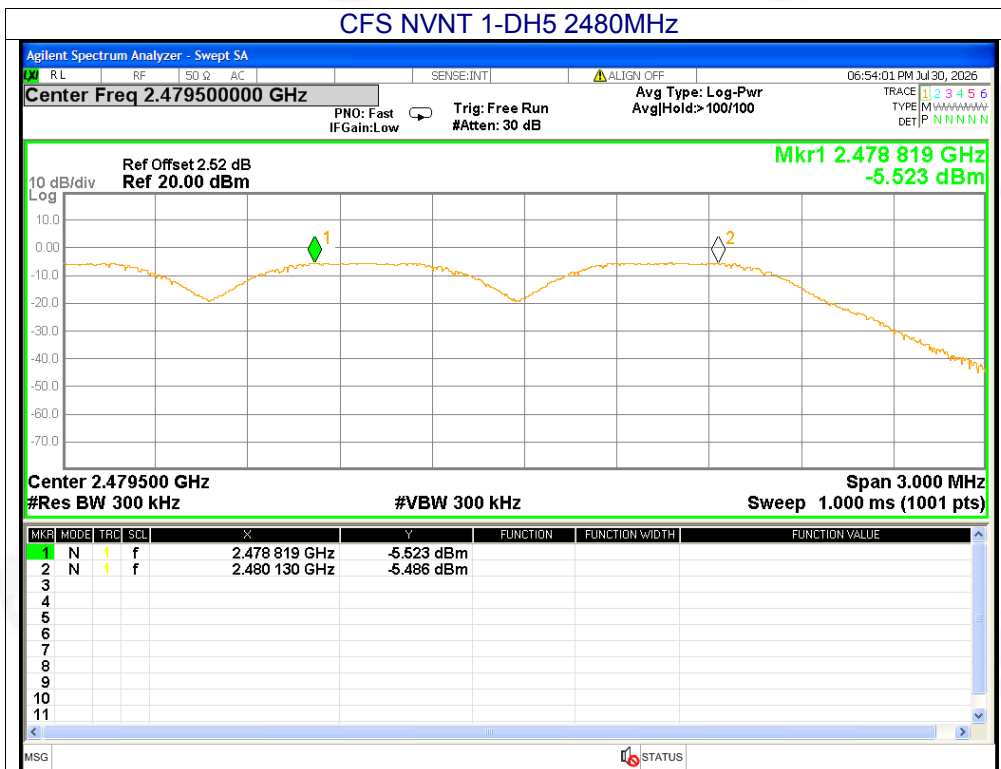


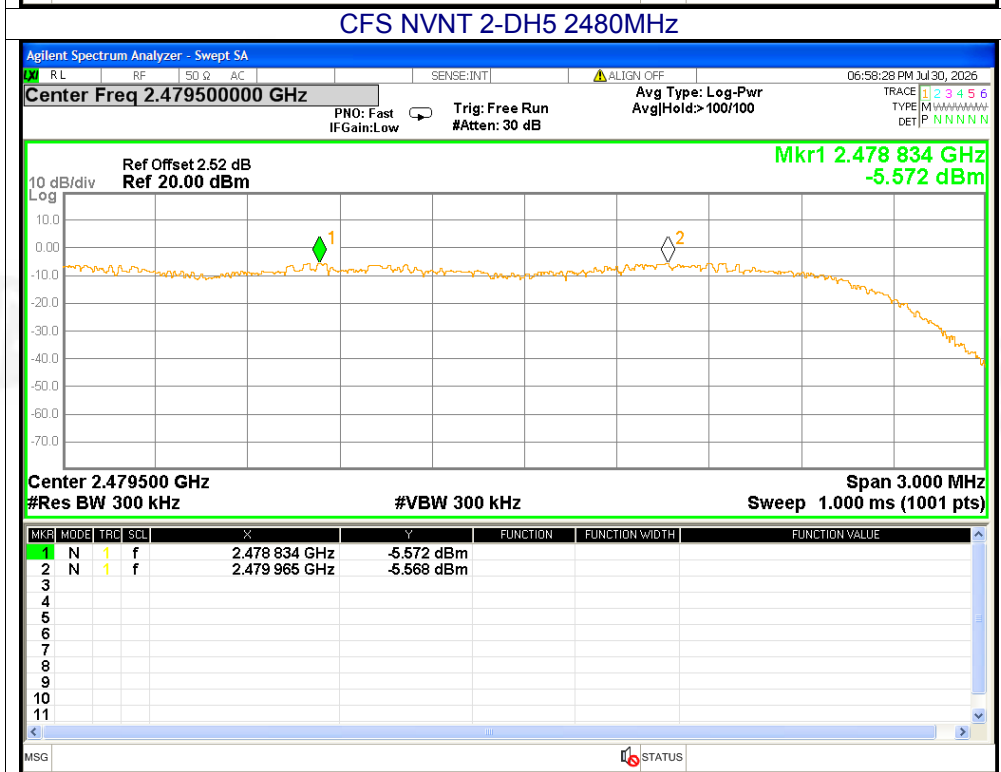
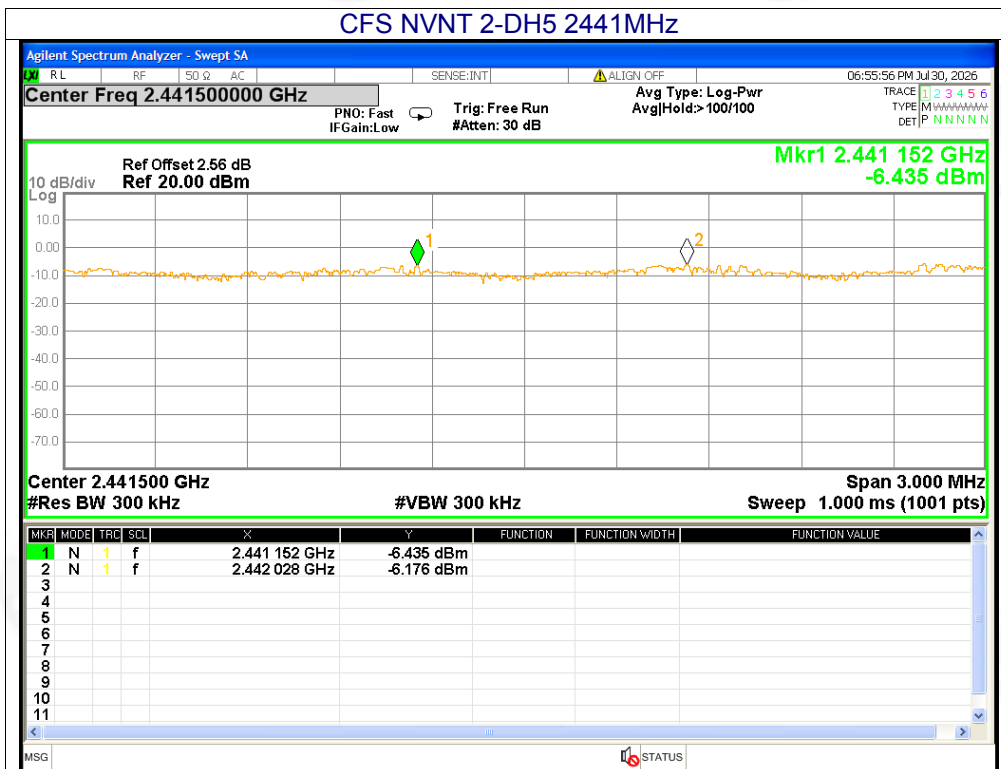


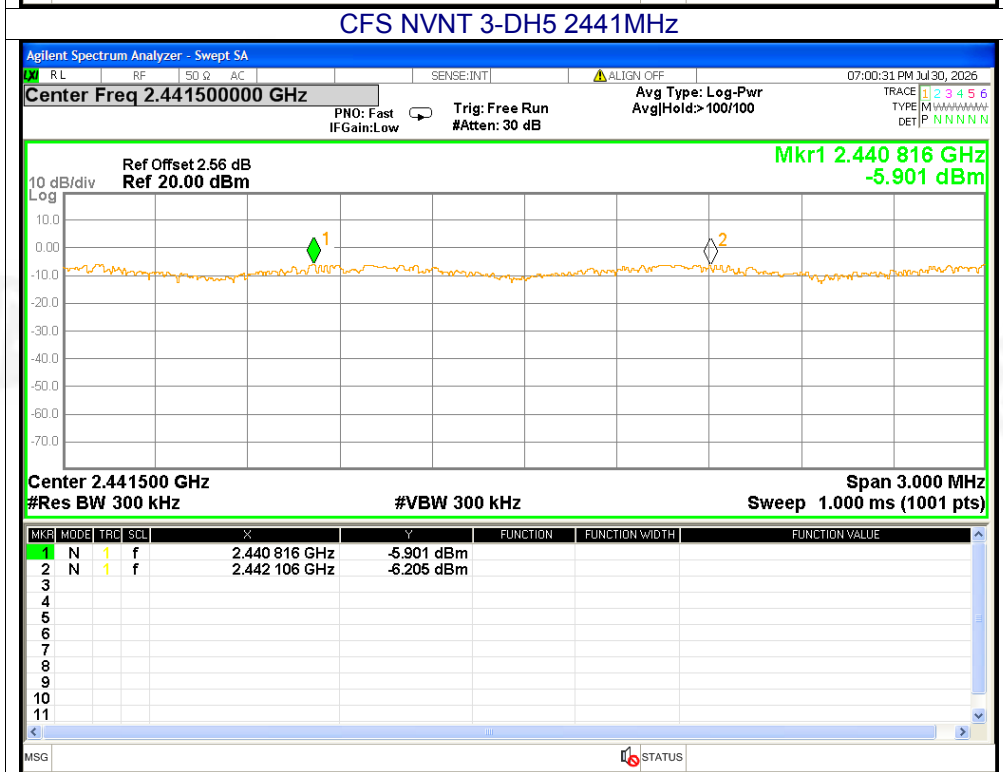
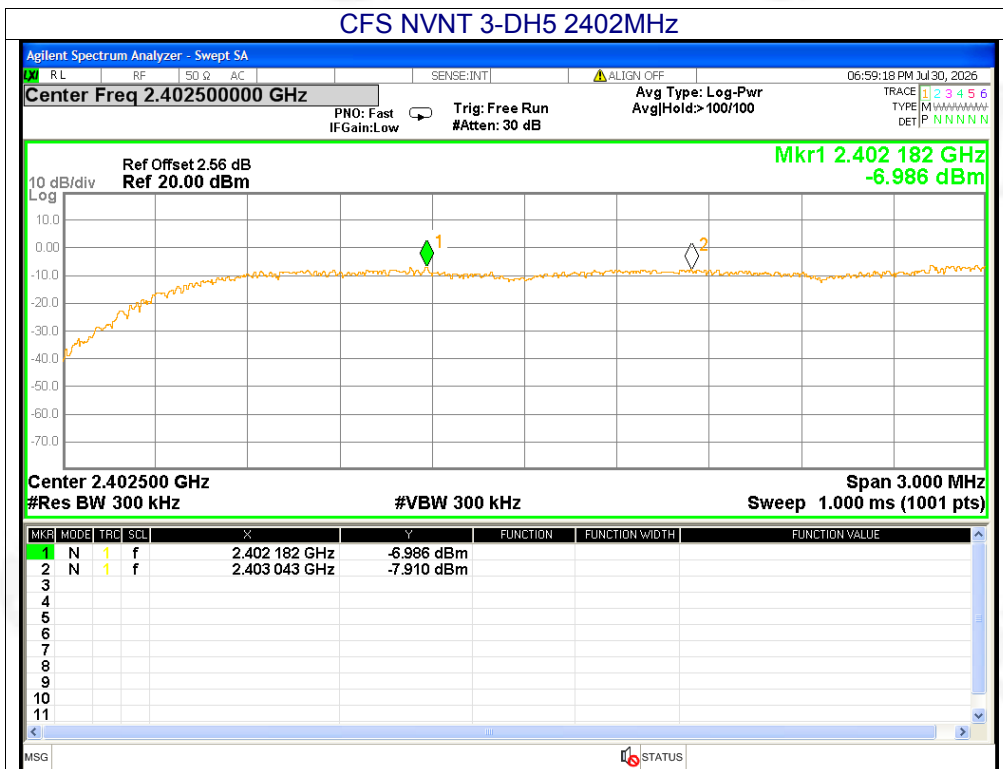
Carrier Frequencies Separation

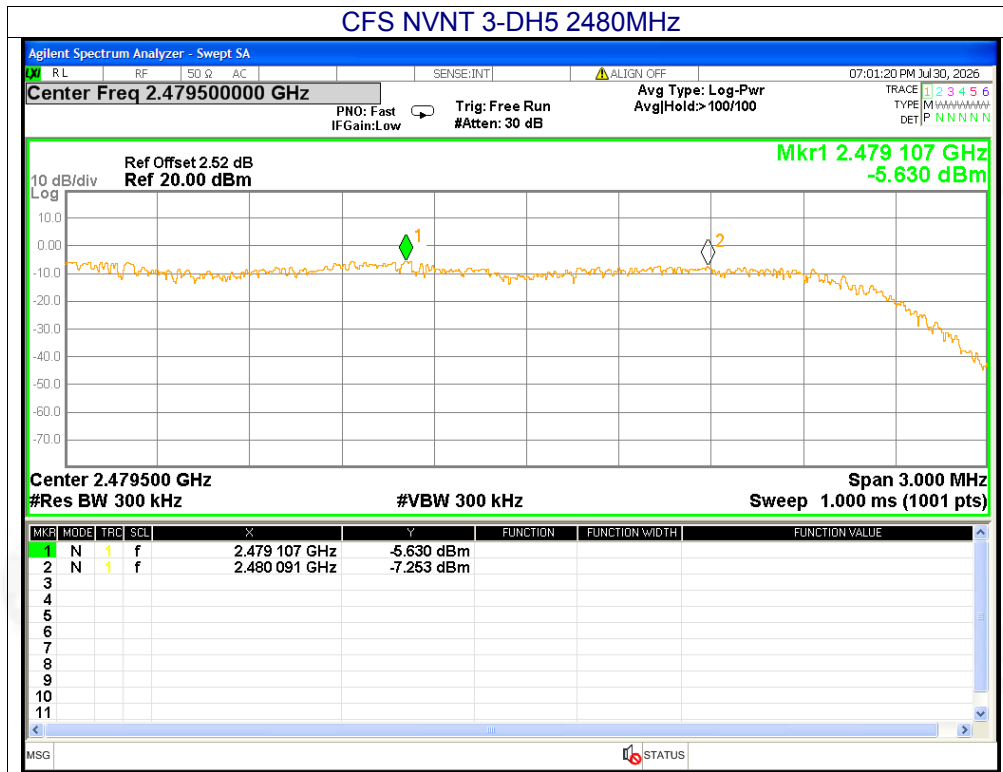
Condition	Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	2402.125	2403.115	0.99	≥ 0.961	Pass
NVNT	1-DH5	2440.816	2441.977	1.161	≥ 0.950	Pass
NVNT	1-DH5	2478.819	2480.13	1.311	≥ 0.966	Pass
NVNT	2-DH5	2402.101	2403.112	1.011	≥ 0.847	Pass
NVNT	2-DH5	2441.152	2442.028	0.876	≥ 0.876	Pass
NVNT	2-DH5	2478.834	2479.965	1.131	≥ 0.843	Pass
NVNT	3-DH5	2402.182	2403.043	0.861	≥ 0.853	Pass
NVNT	3-DH5	2440.816	2442.106	1.29	≥ 0.871	Pass
NVNT	3-DH5	2479.107	2480.091	0.984	≥ 0.846	Pass











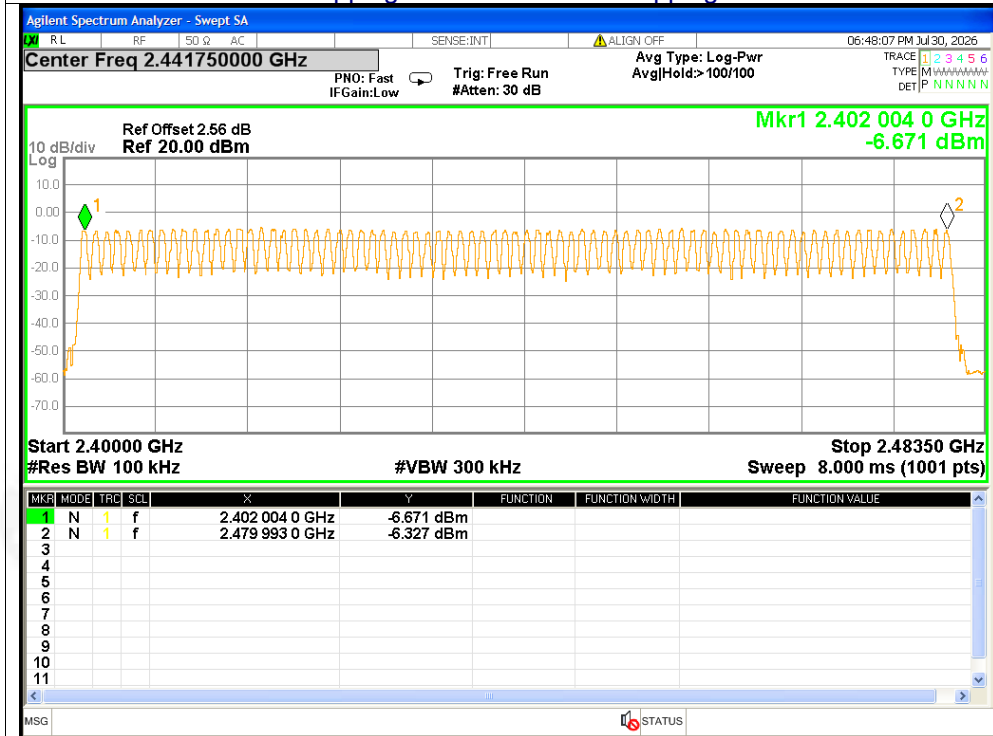


Number of Hopping Channel

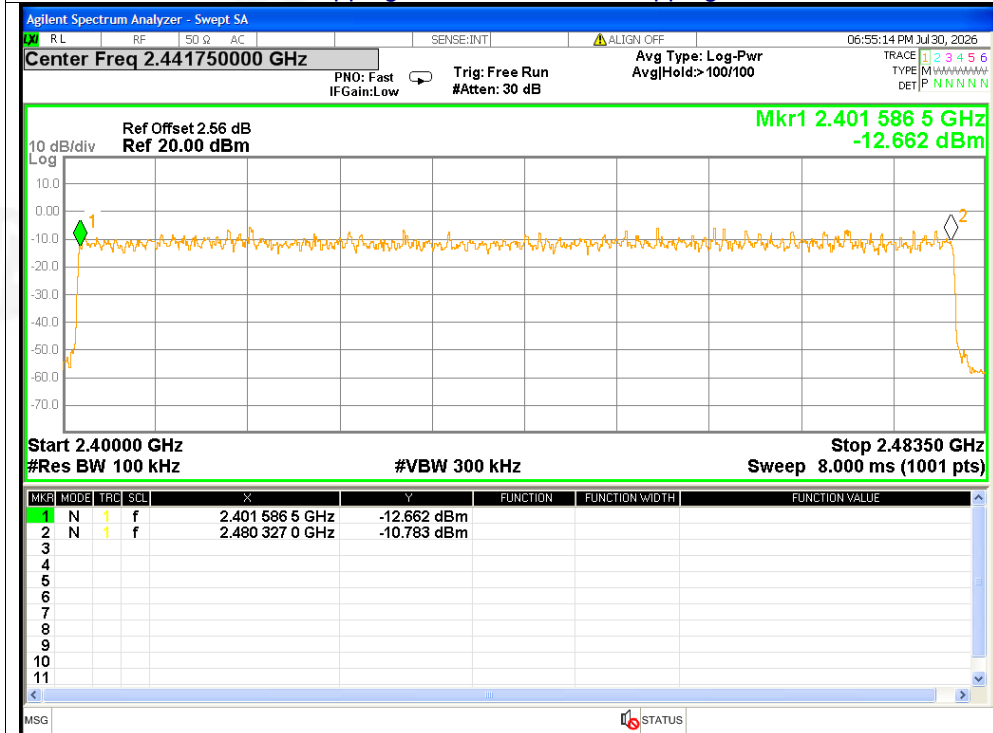
Condition	Mode	Hopping Number	Limit	Verdict
NVNT	1-DH5	79	>=15	Pass
NVNT	2-DH5	79	>=15	Pass
NVNT	3-DH5	79	>=15	Pass

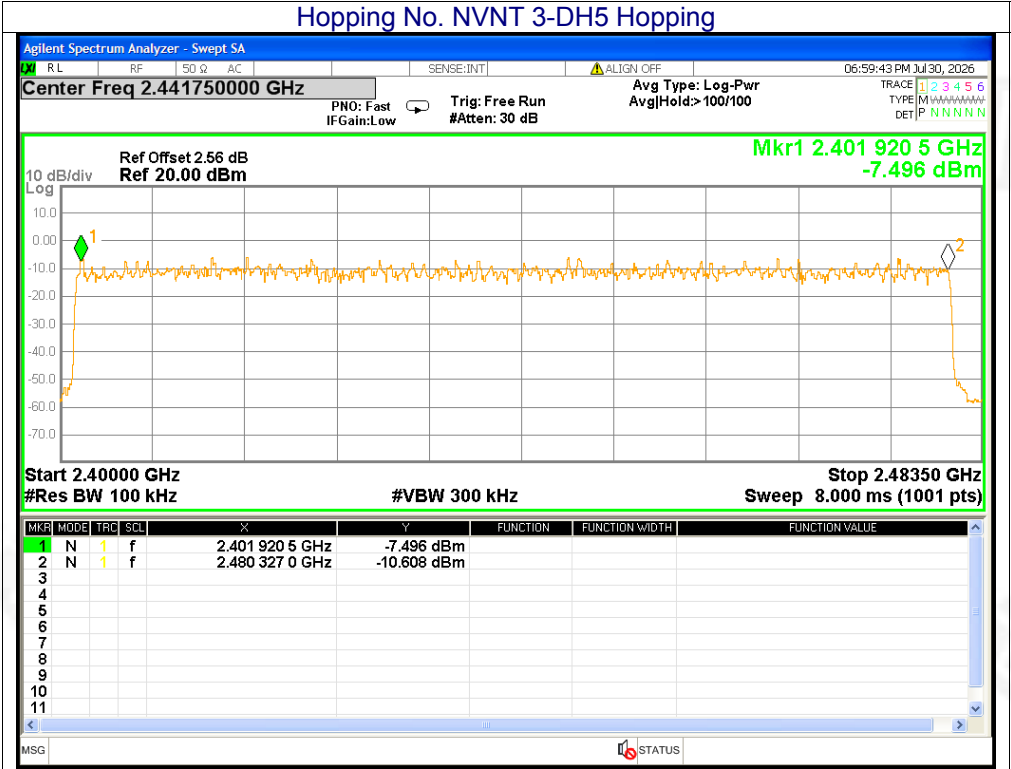


Test Graphs Hopping No. NVNT 1-DH5 Hopping



Hopping No. NVNT 2-DH5 Hopping

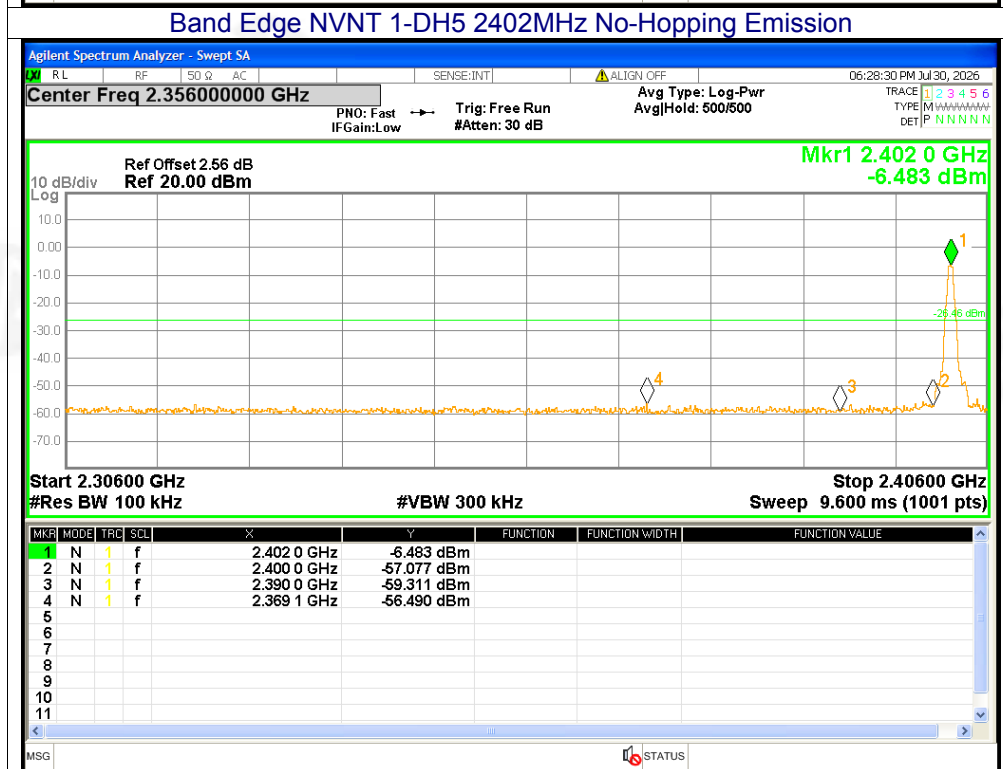
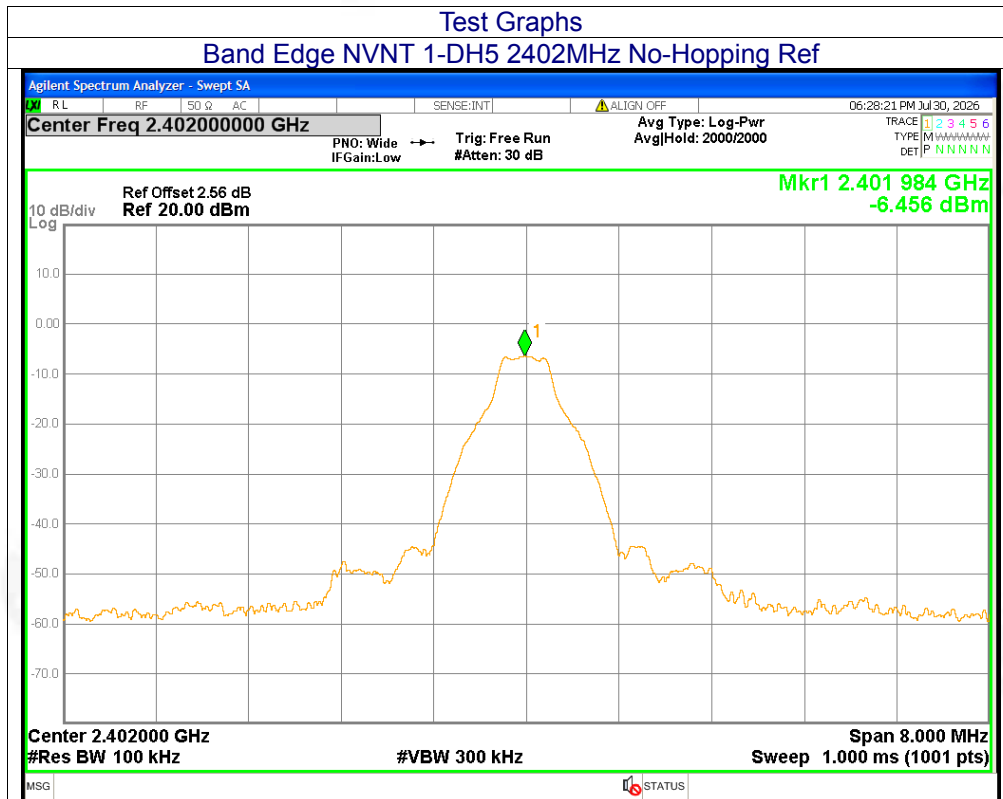


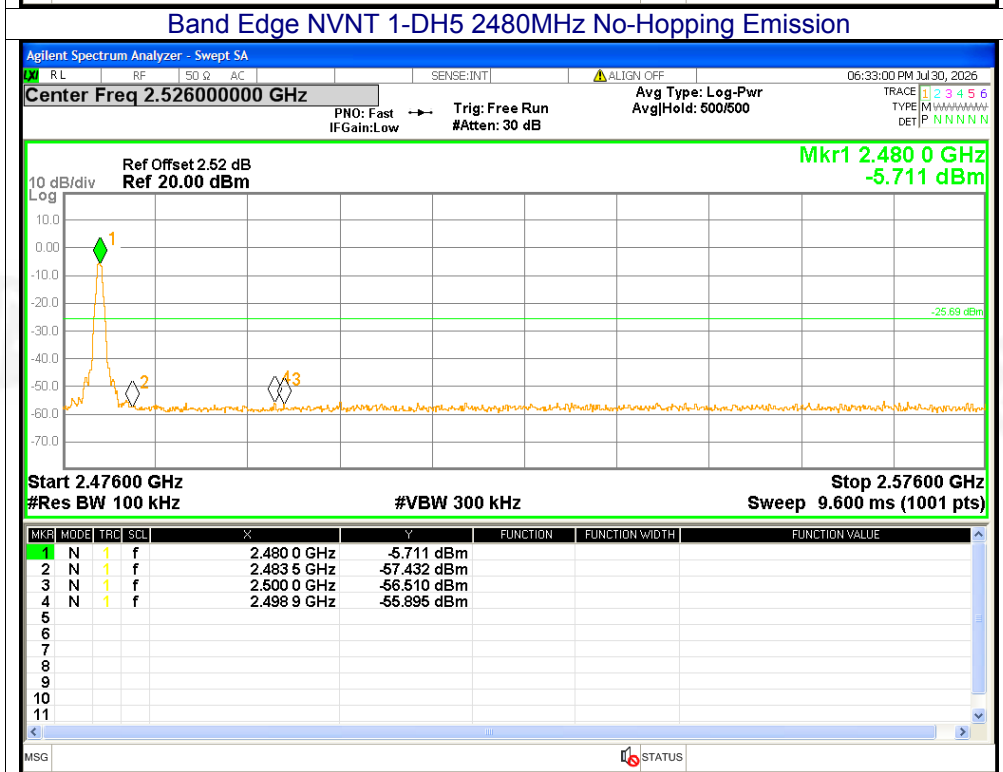
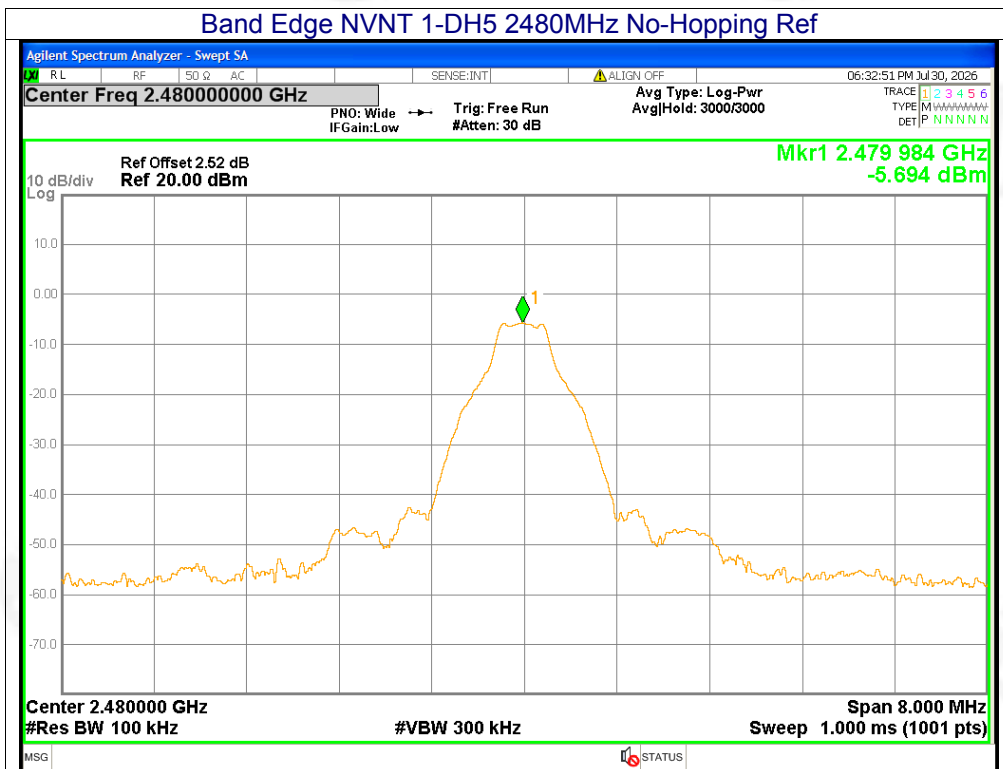


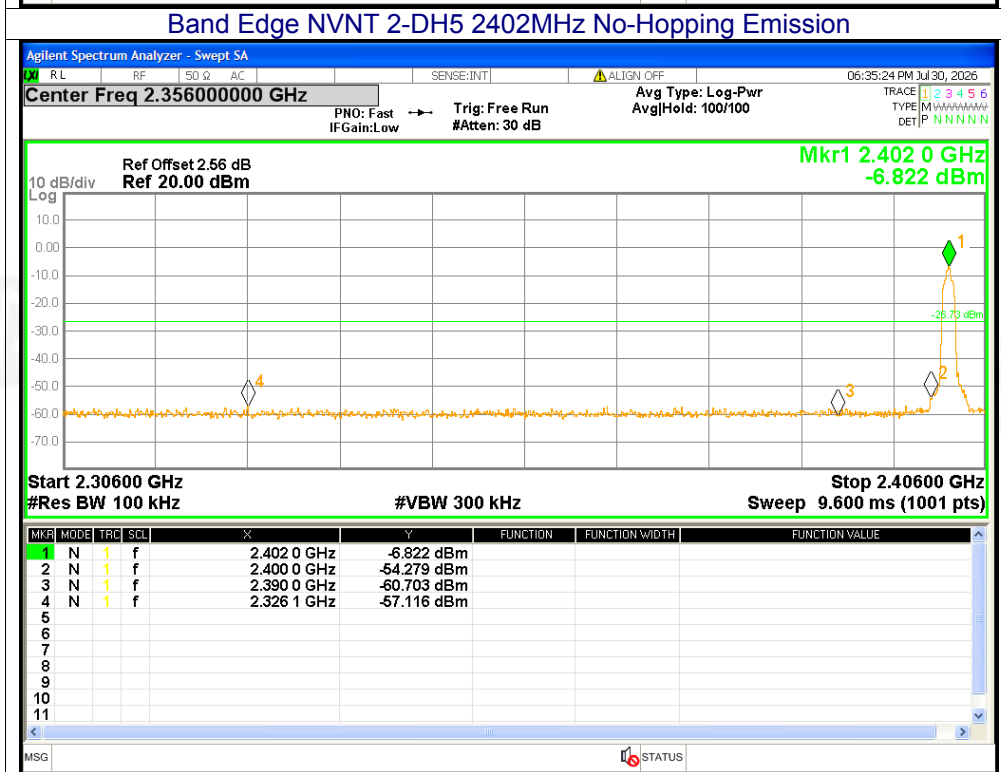
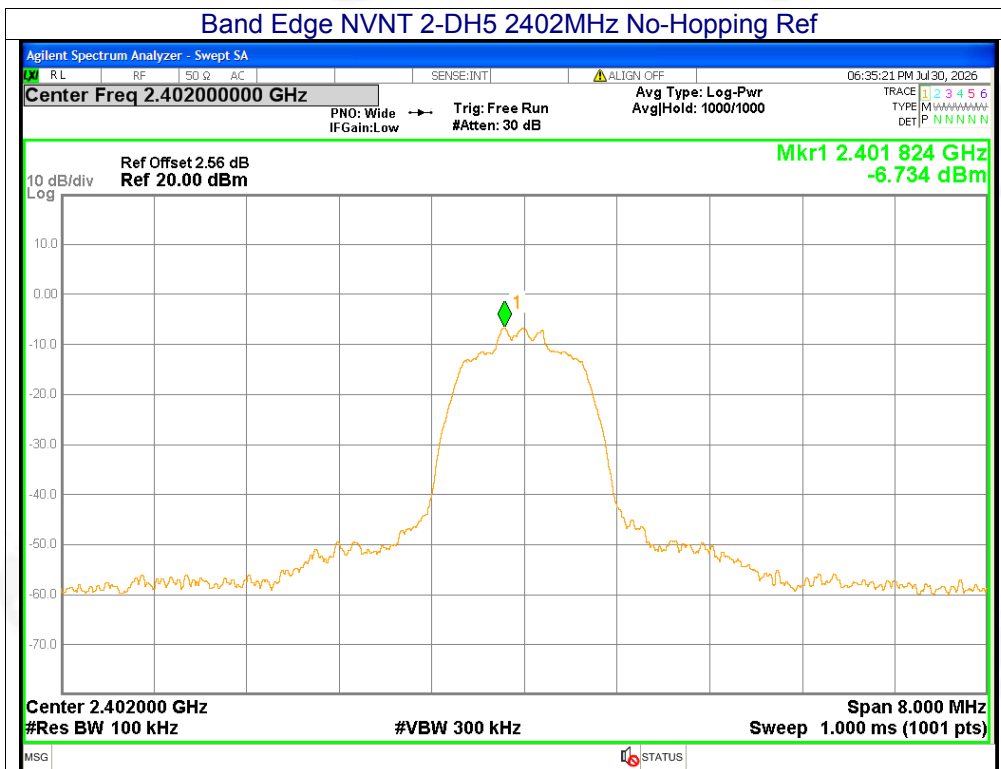


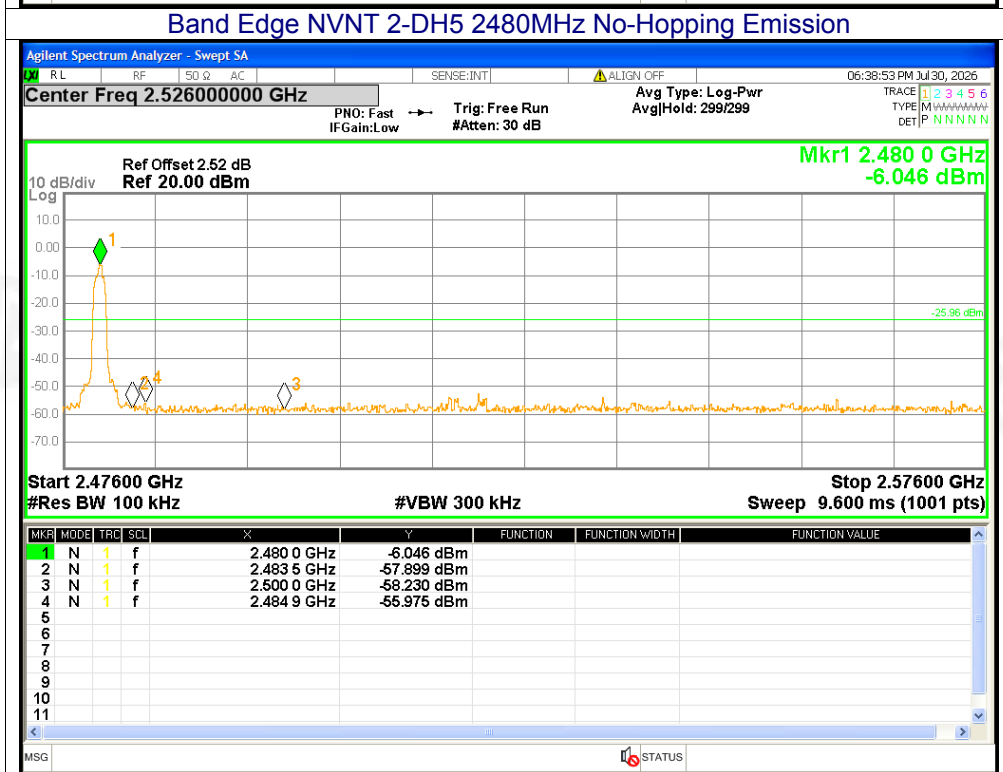
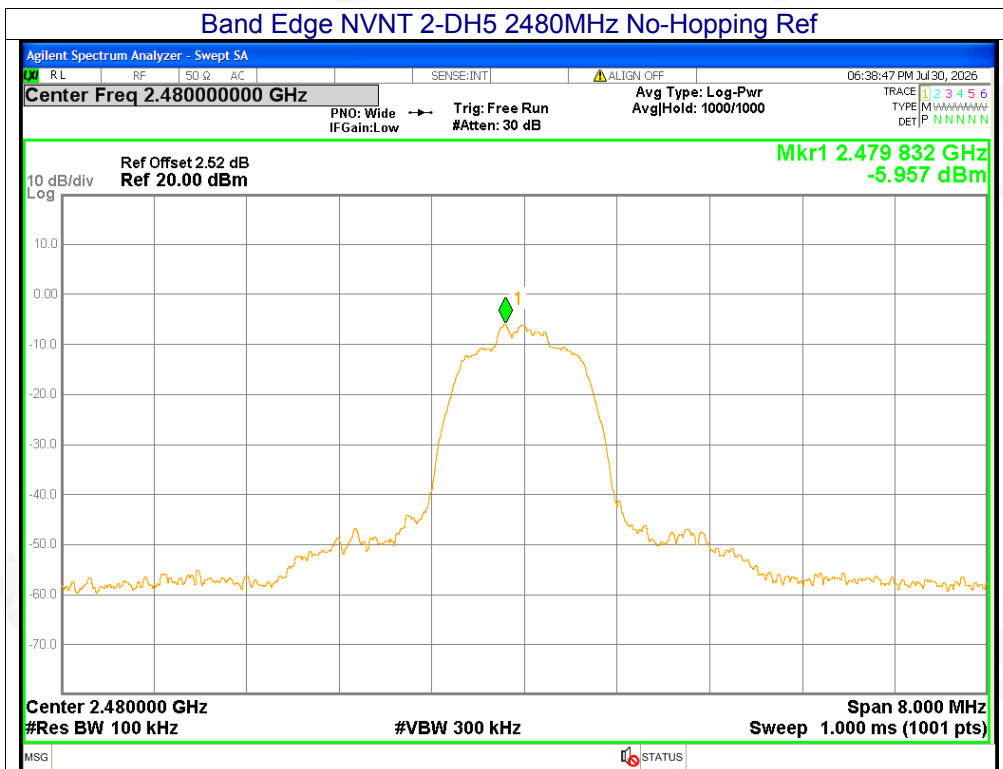
Band Edge

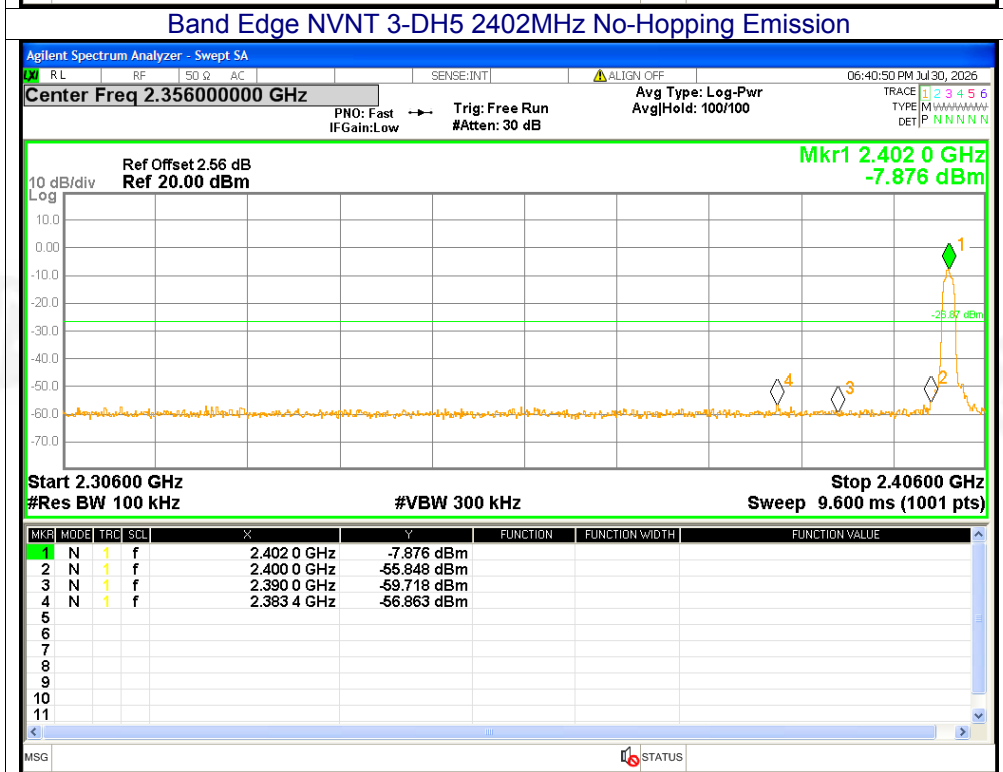
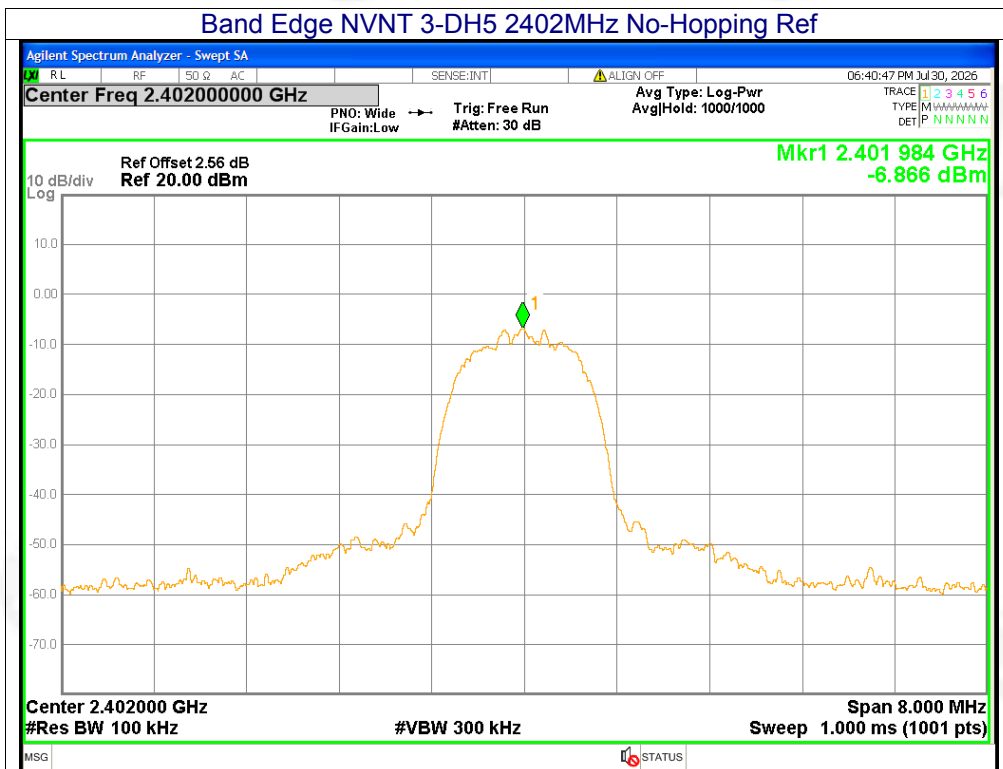
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	No-Hopping	-50.02	<=-20	Pass
NVNT	1-DH5	2480	No-Hopping	-50.2	<=-20	Pass
NVNT	2-DH5	2402	No-Hopping	-50.38	<=-20	Pass
NVNT	2-DH5	2480	No-Hopping	-50.01	<=-20	Pass
NVNT	3-DH5	2402	No-Hopping	-49.99	<=-20	Pass
NVNT	3-DH5	2480	No-Hopping	-49.01	<=-20	Pass

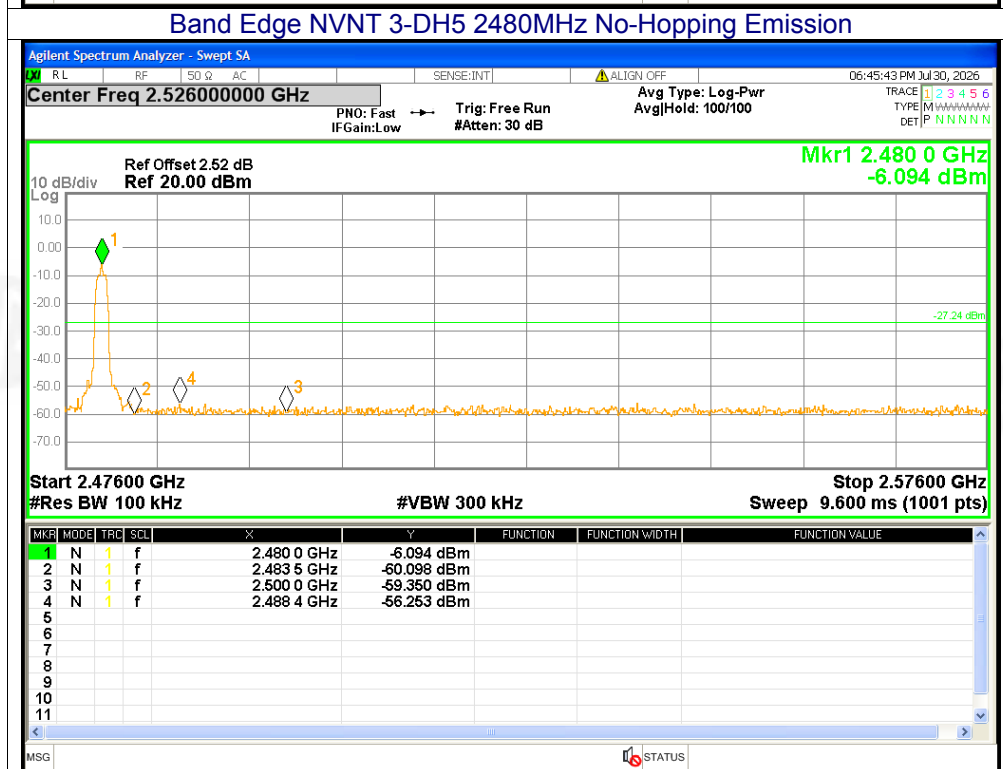
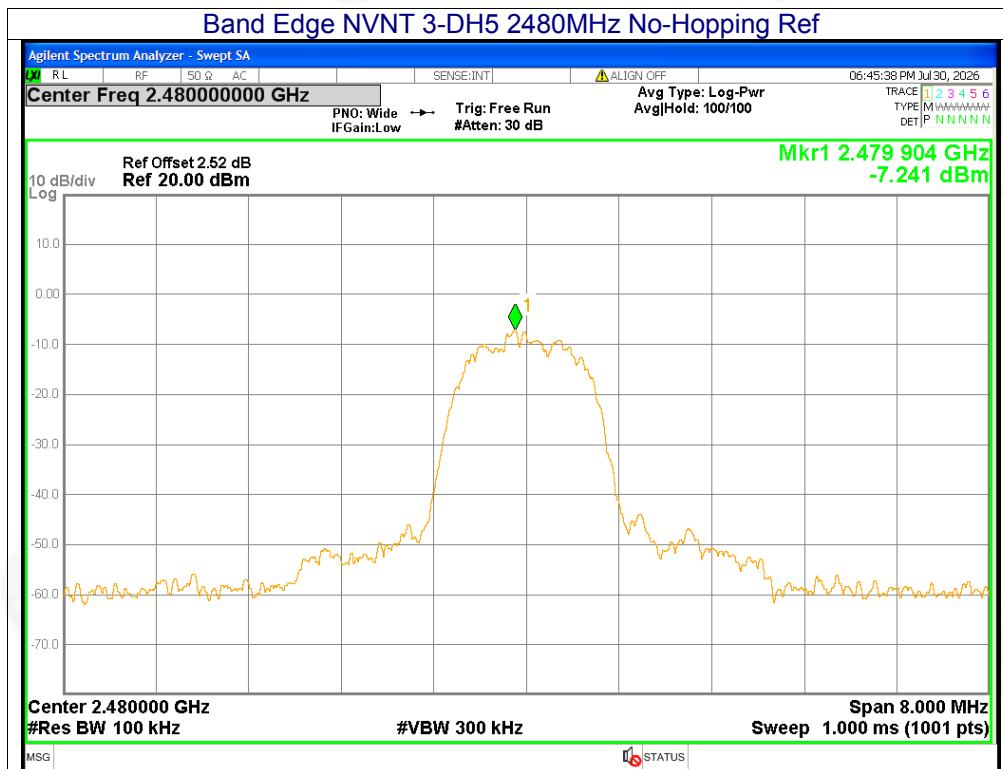








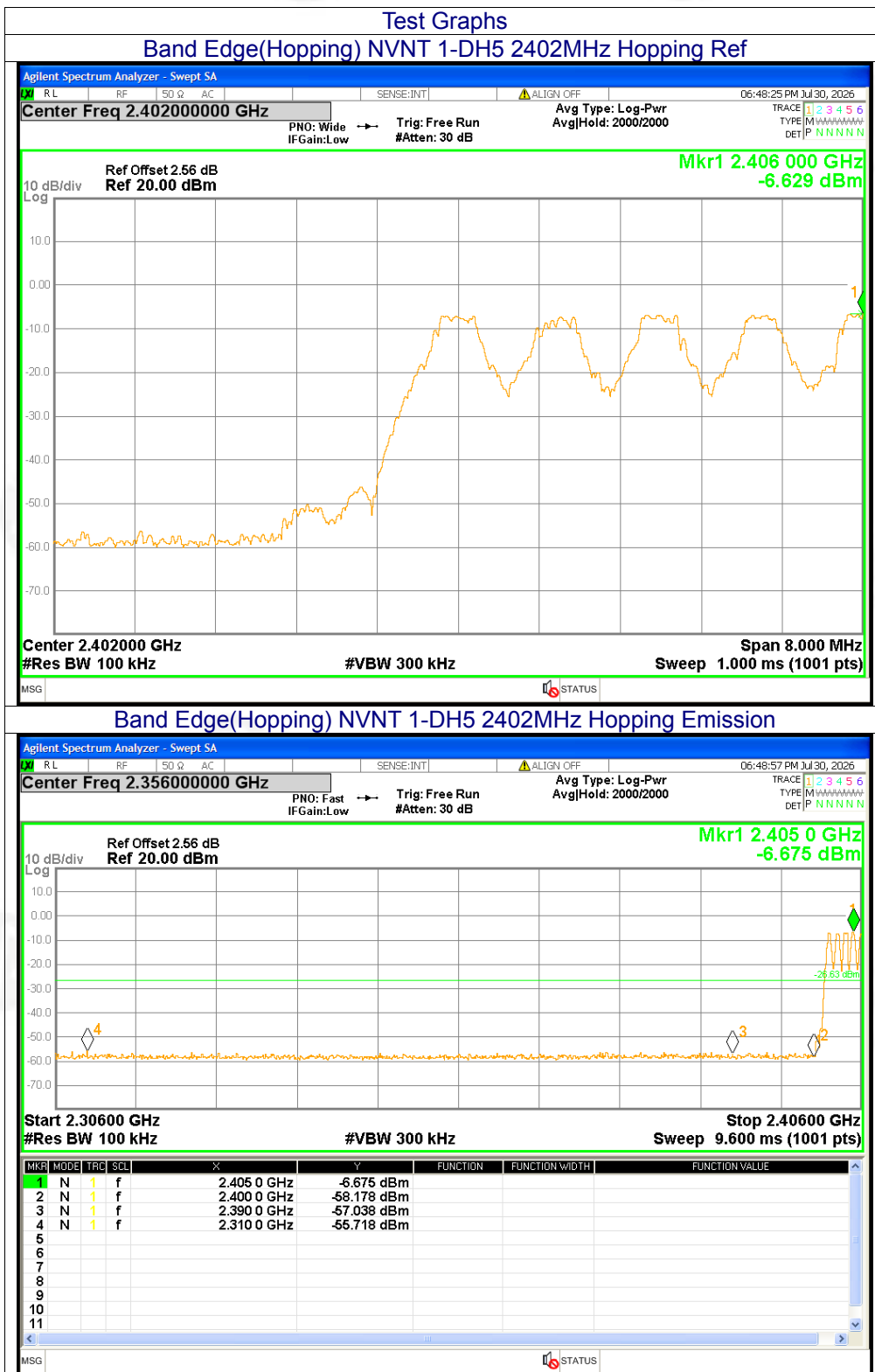


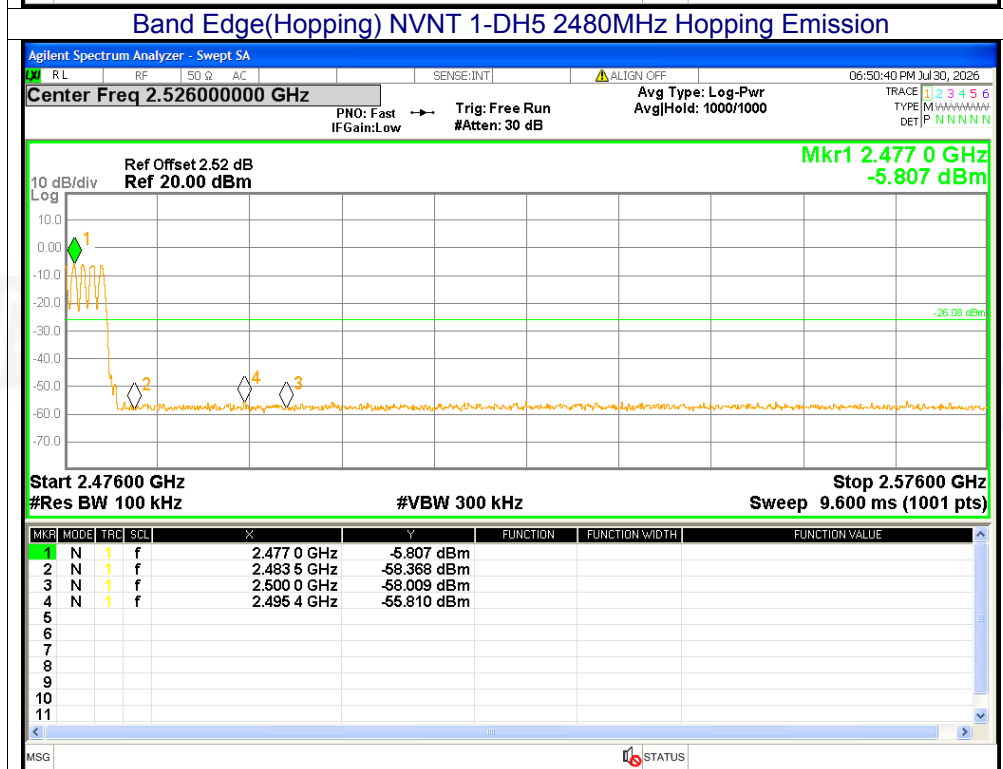
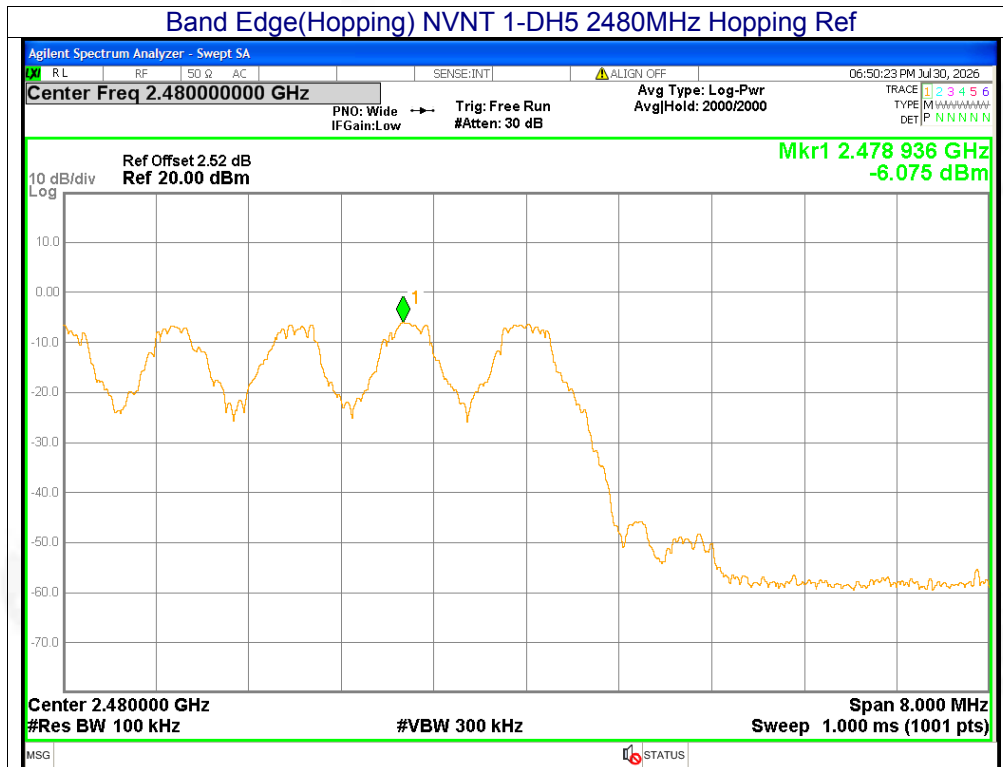


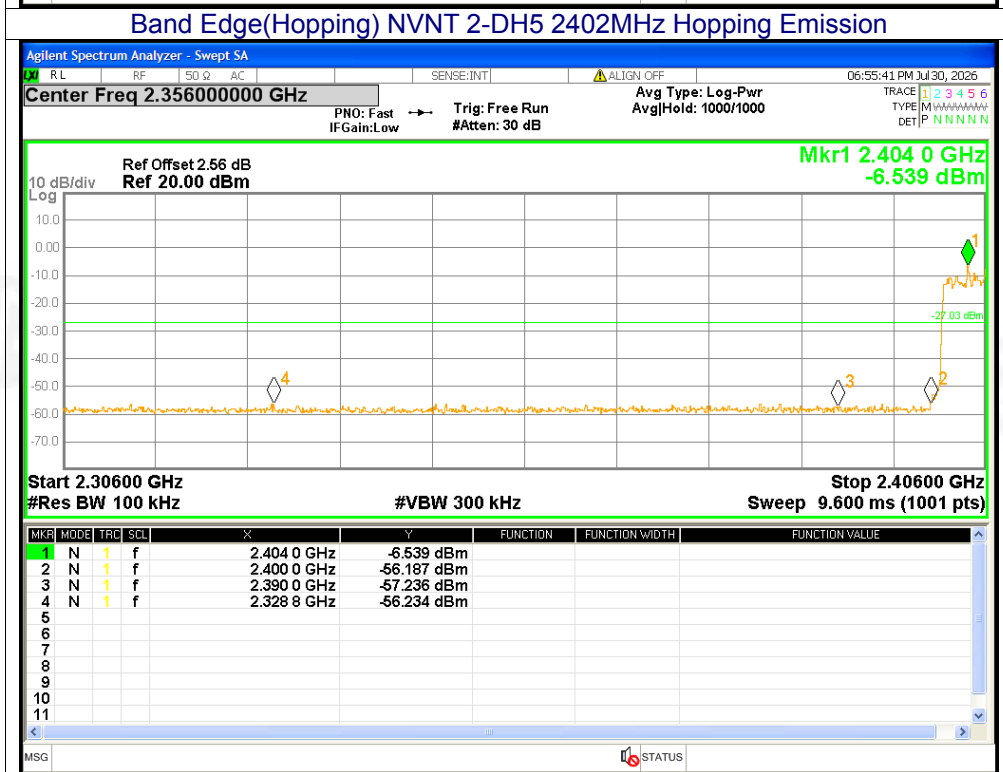
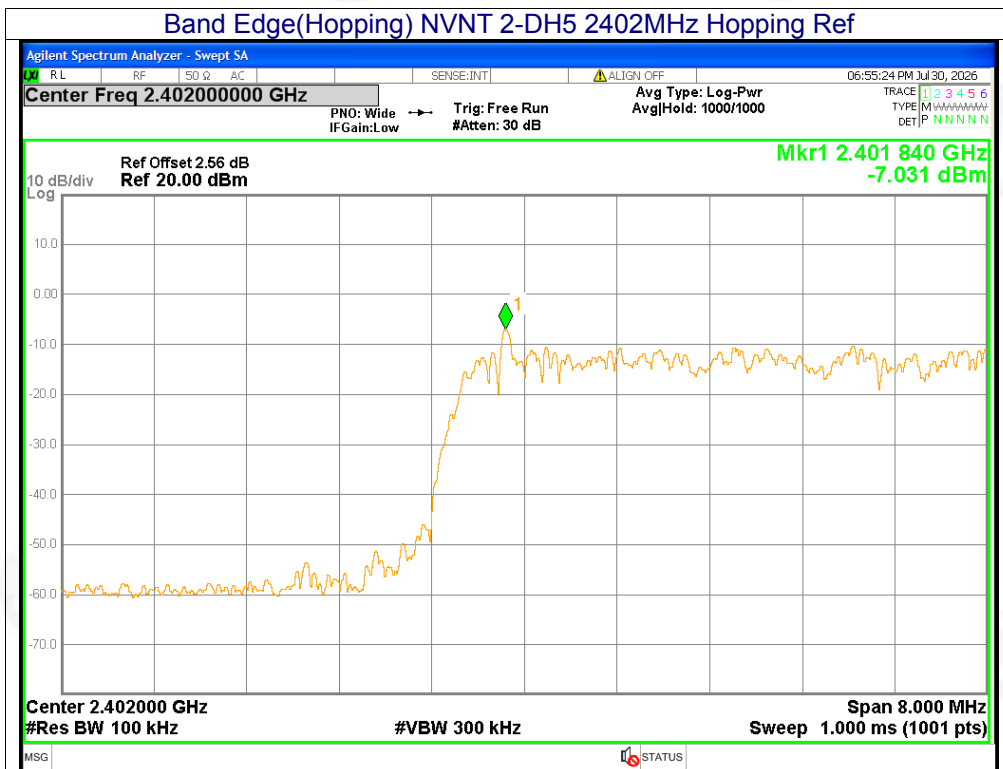


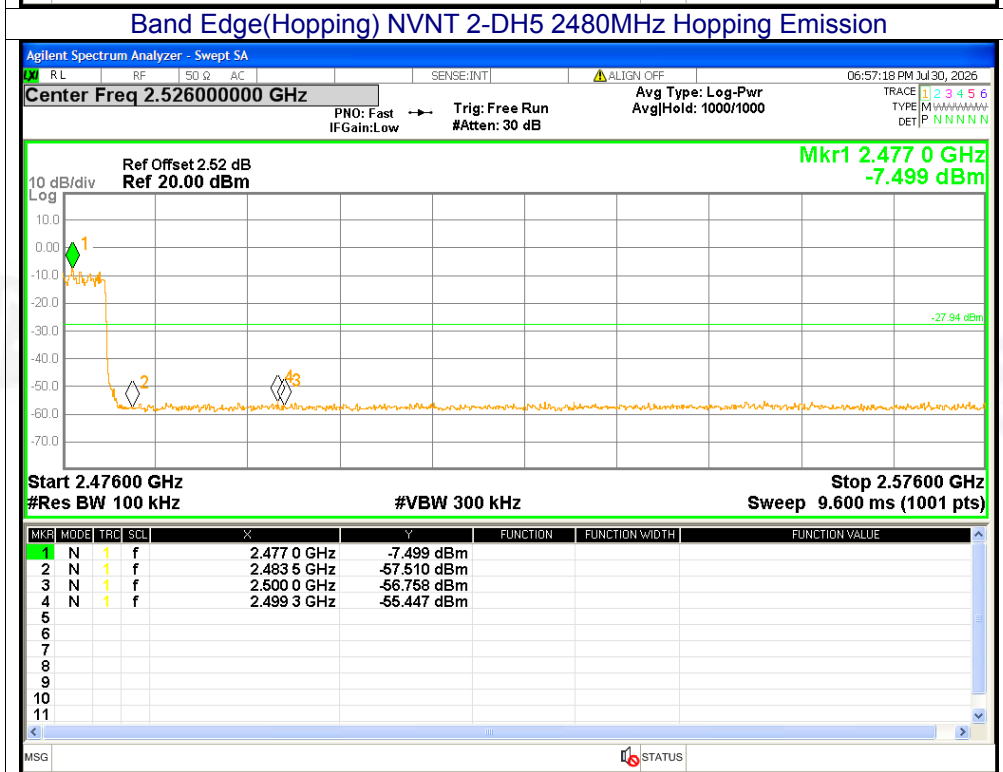
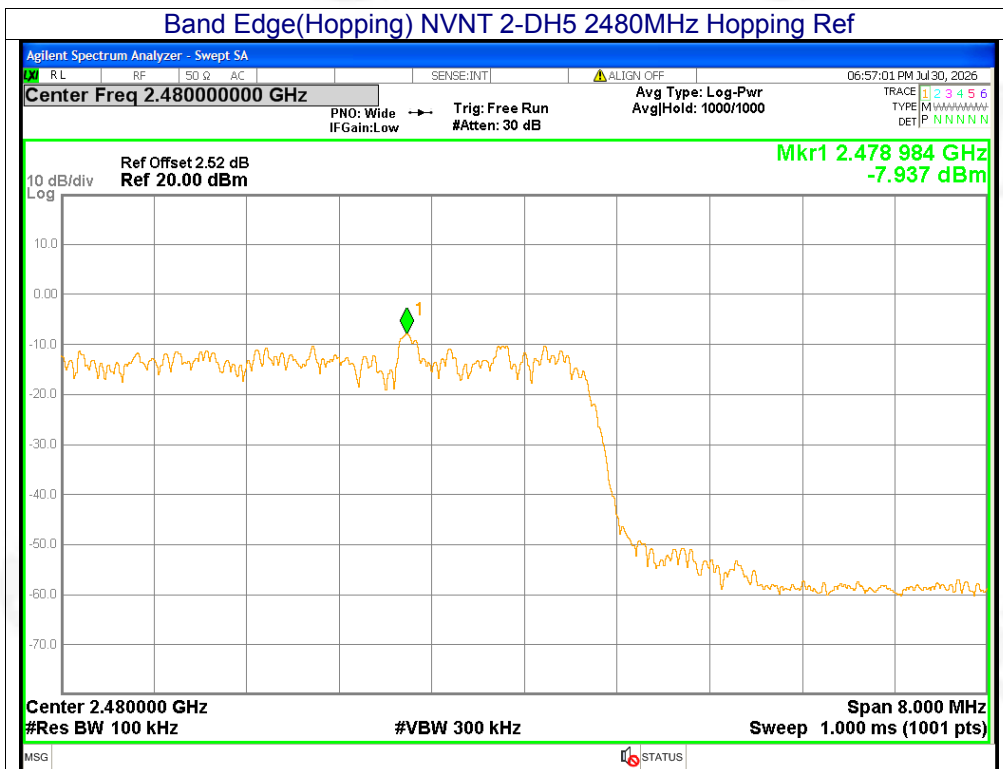
Band Edge(Hopping)

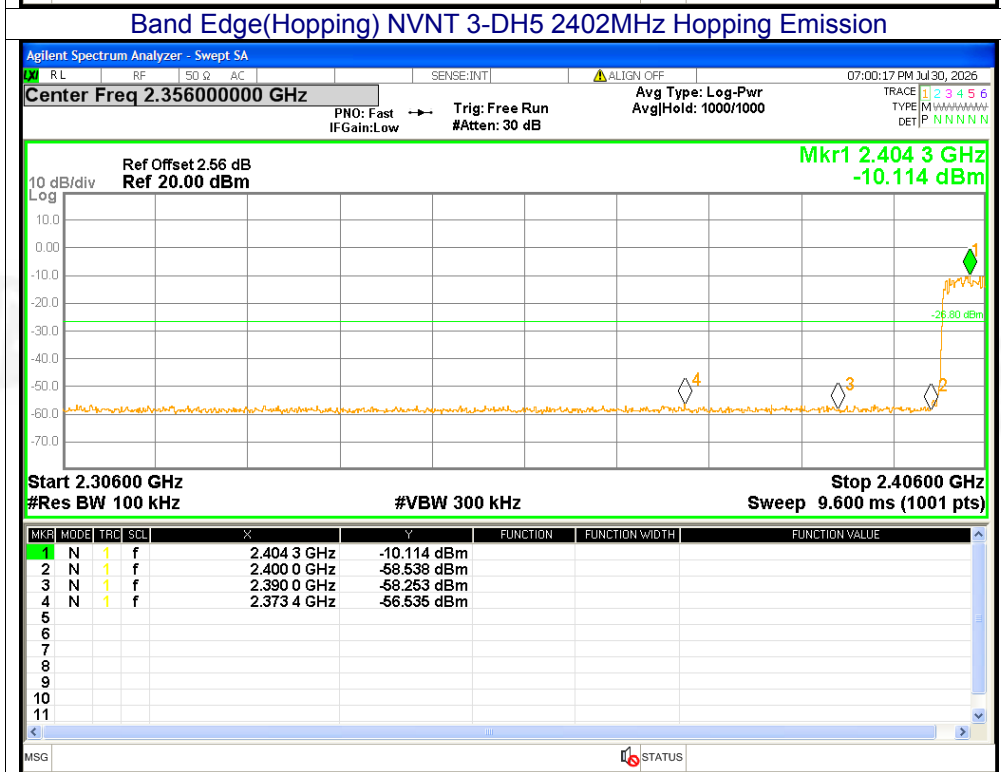
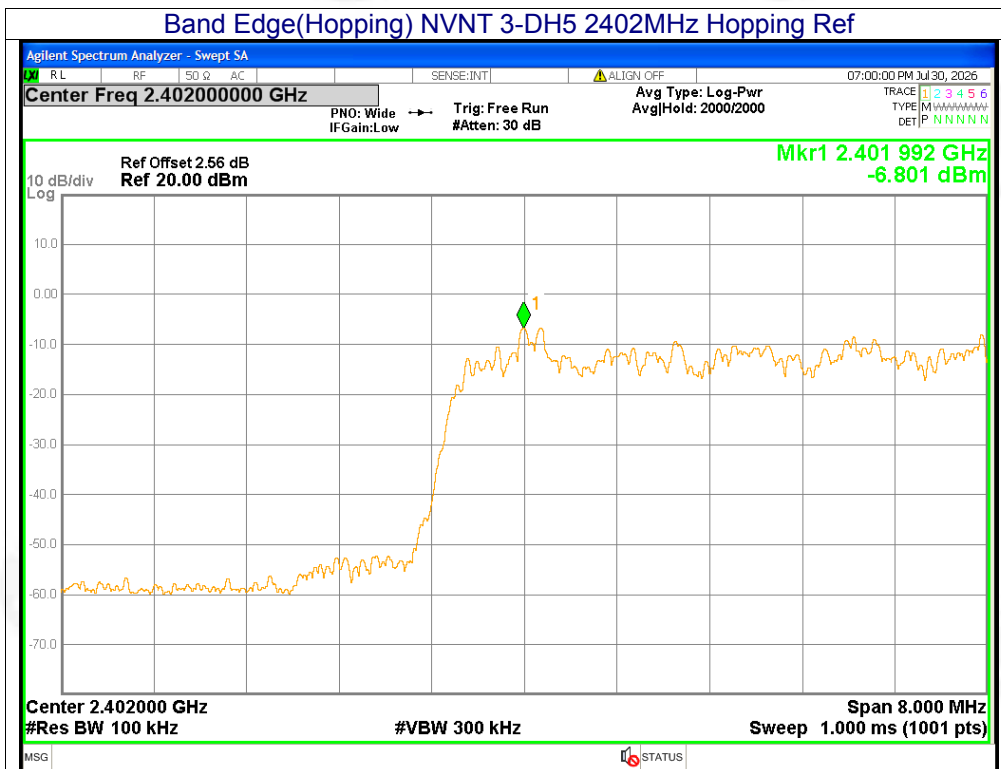
Condition	Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Hopping	-49.08	<=-20	Pass
NVNT	1-DH5	2480	Hopping	-49.73	<=-20	Pass
NVNT	2-DH5	2402	Hopping	-49.2	<=-20	Pass
NVNT	2-DH5	2480	Hopping	-47.5	<=-20	Pass
NVNT	3-DH5	2402	Hopping	-49.73	<=-20	Pass
NVNT	3-DH5	2480	Hopping	-49.39	<=-20	Pass

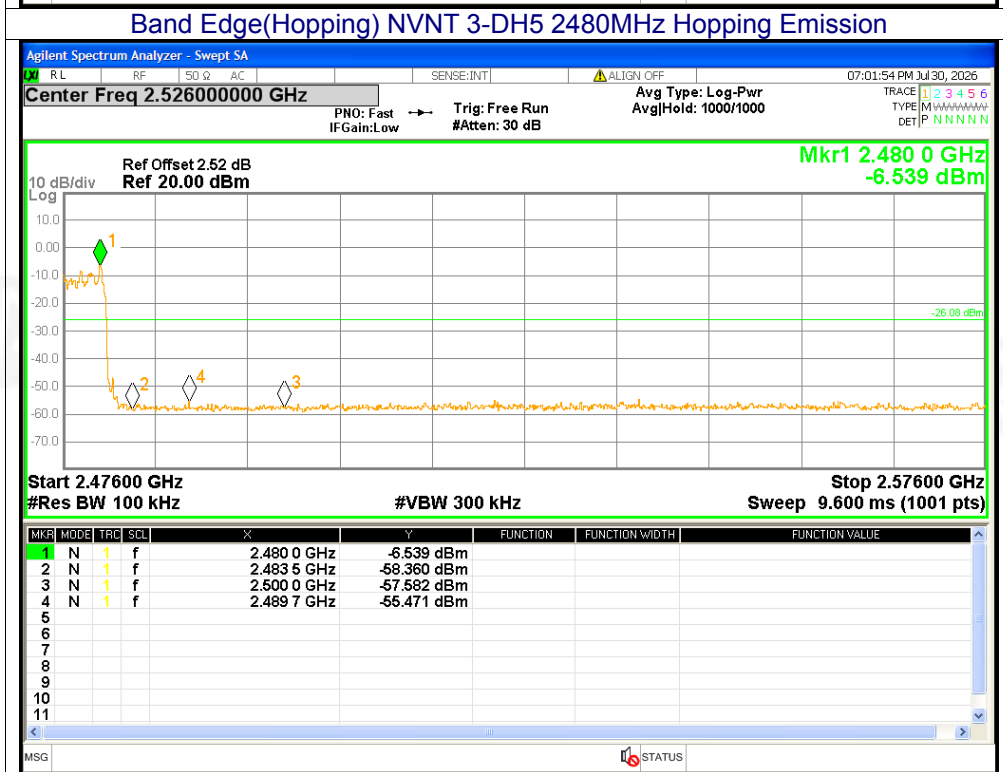
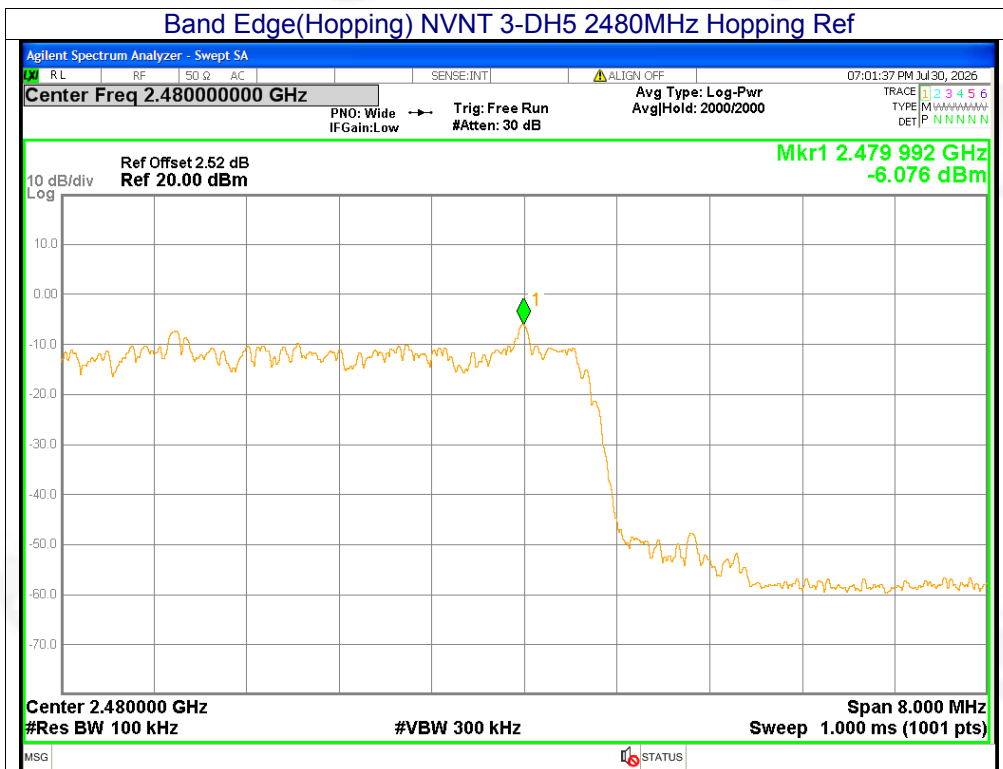








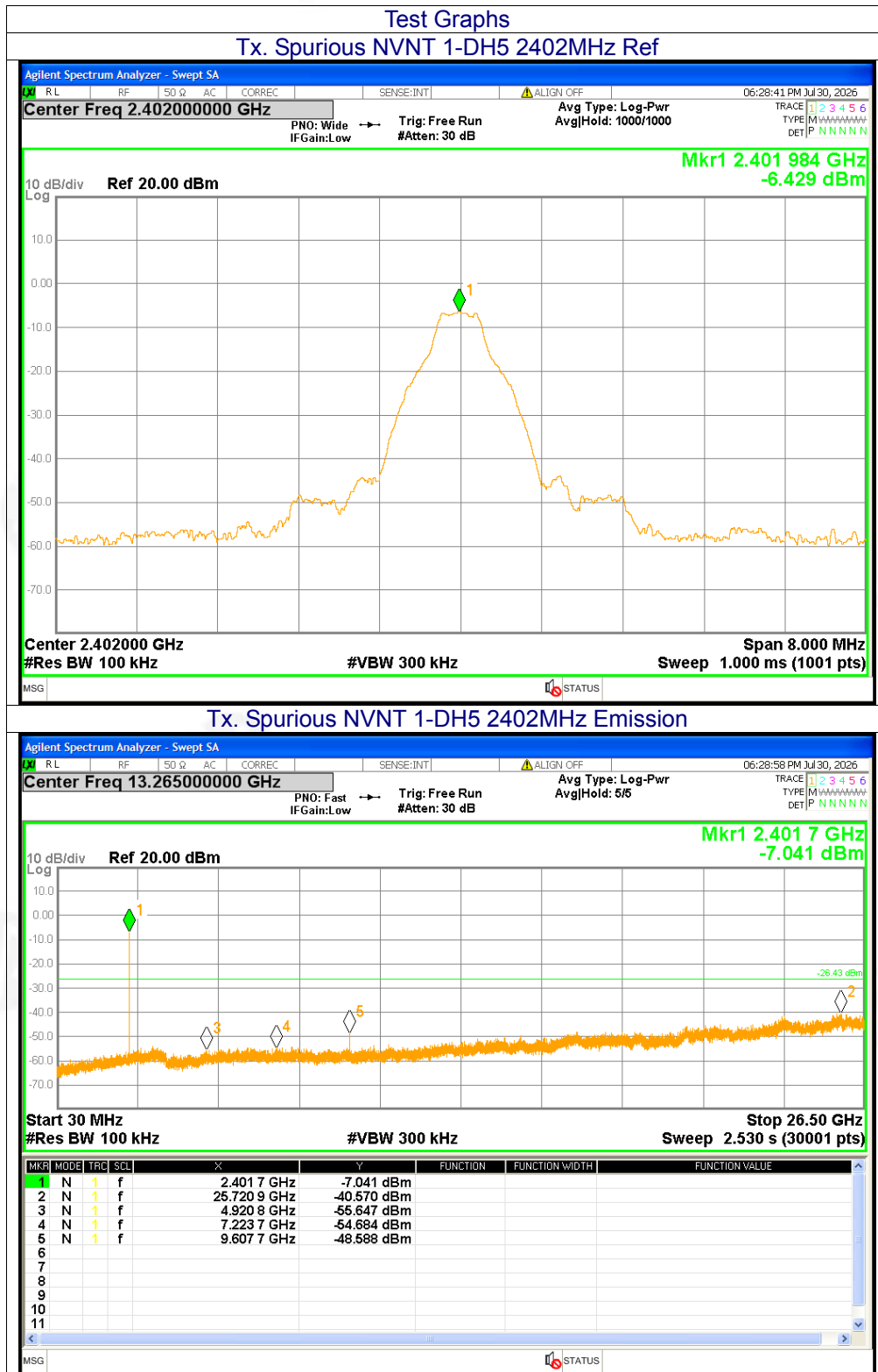


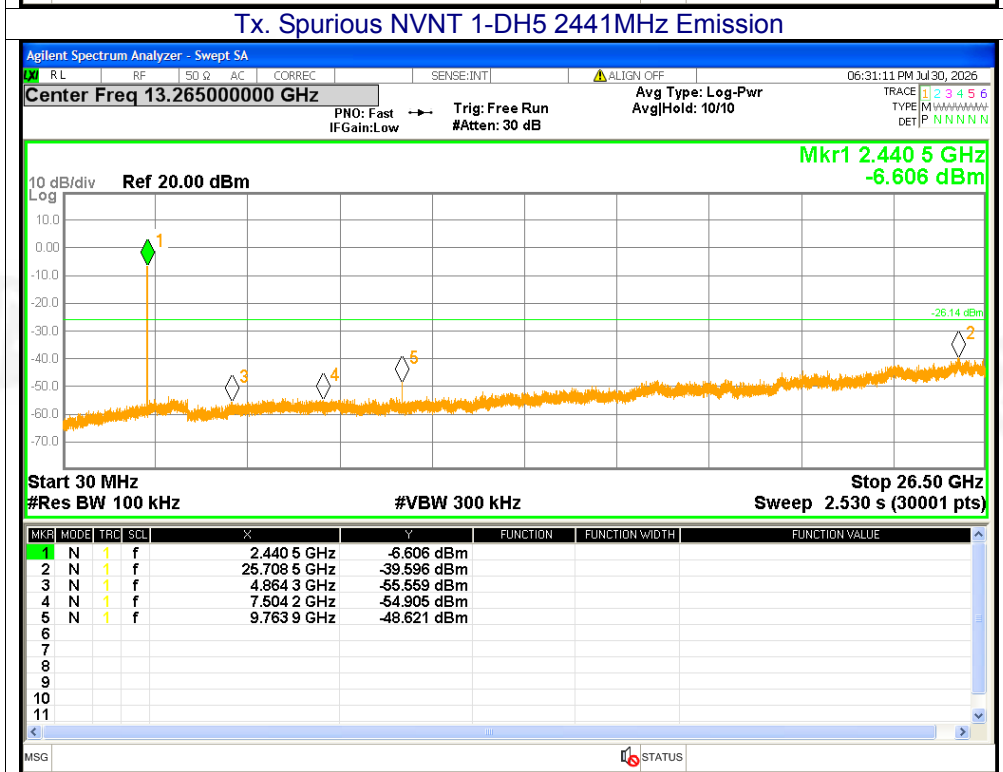
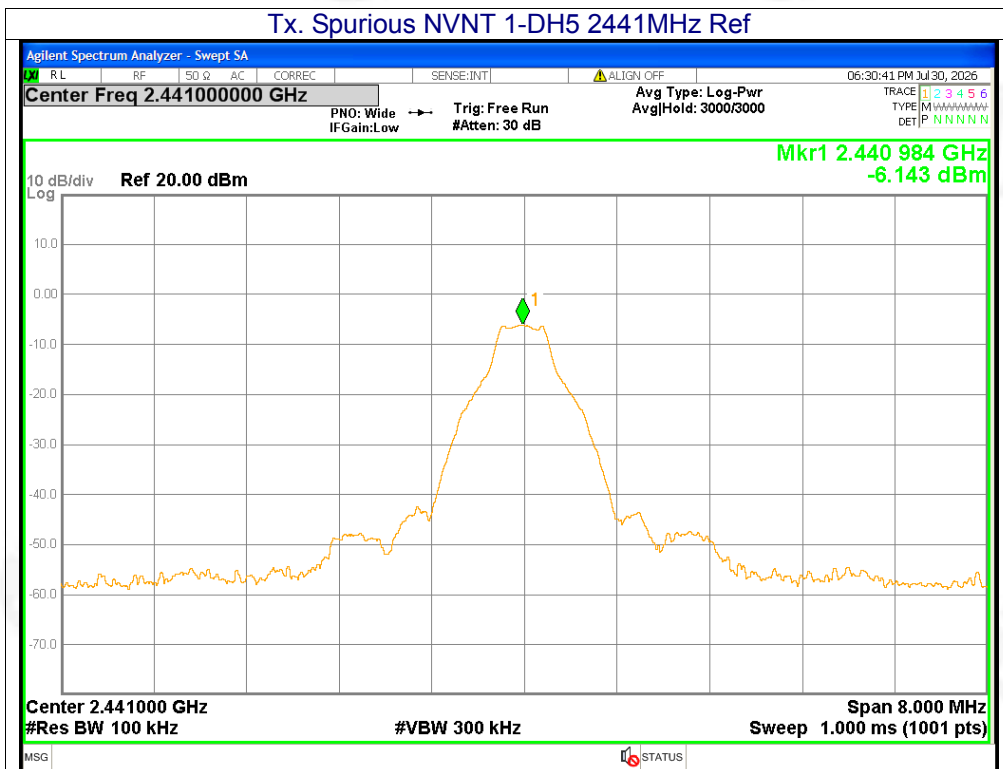


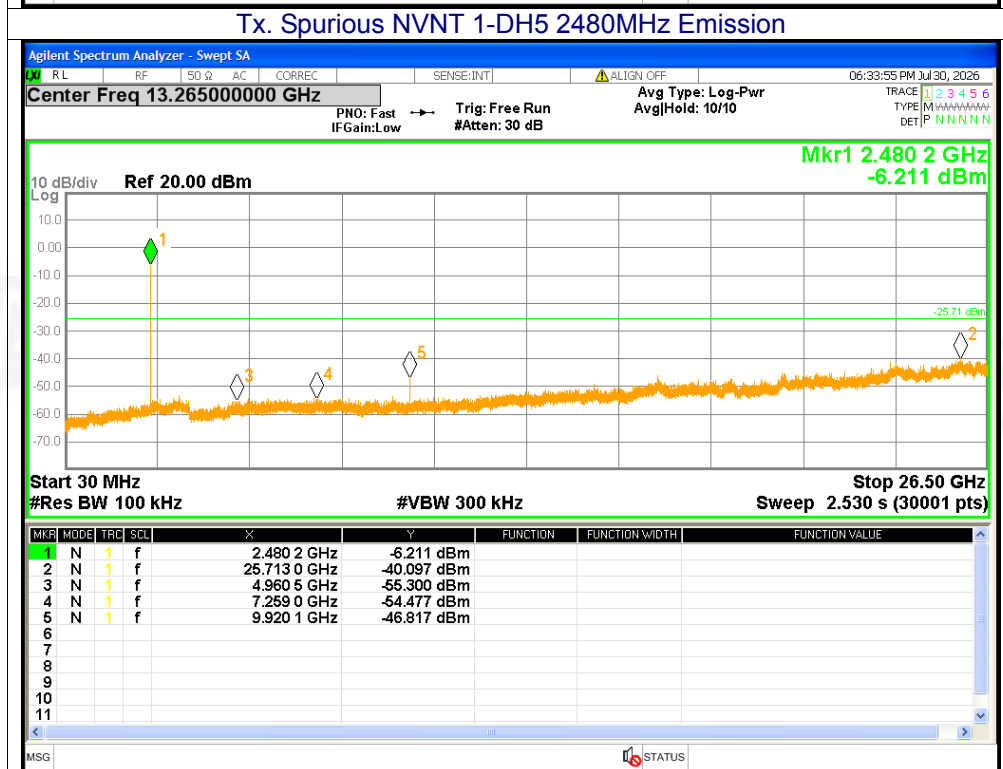
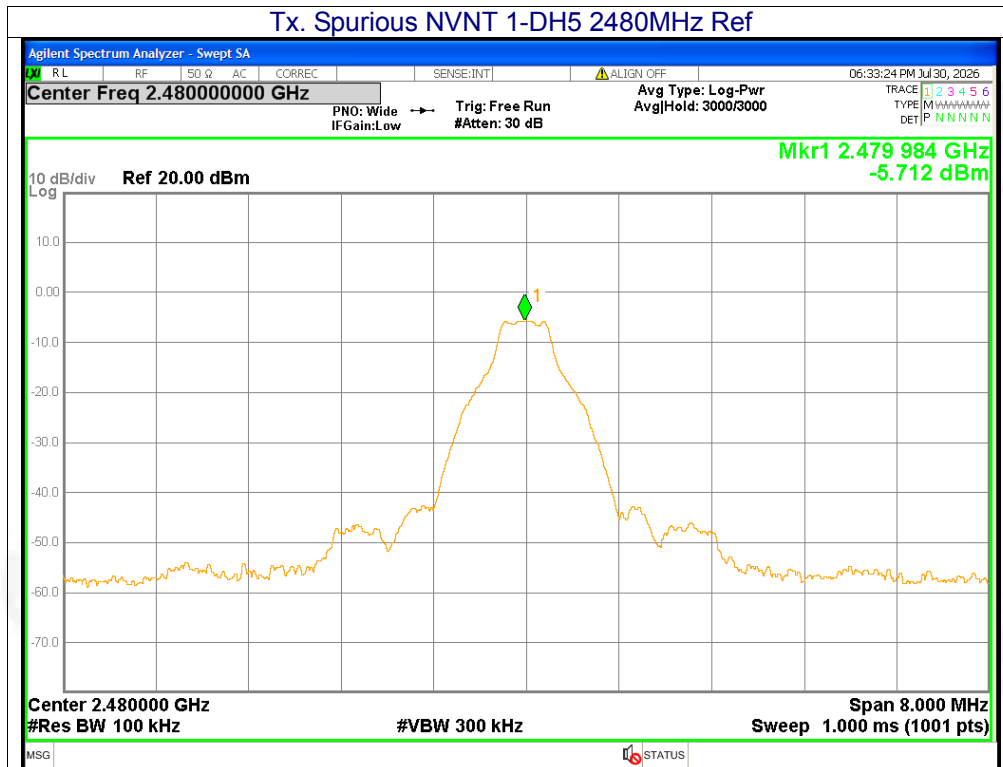


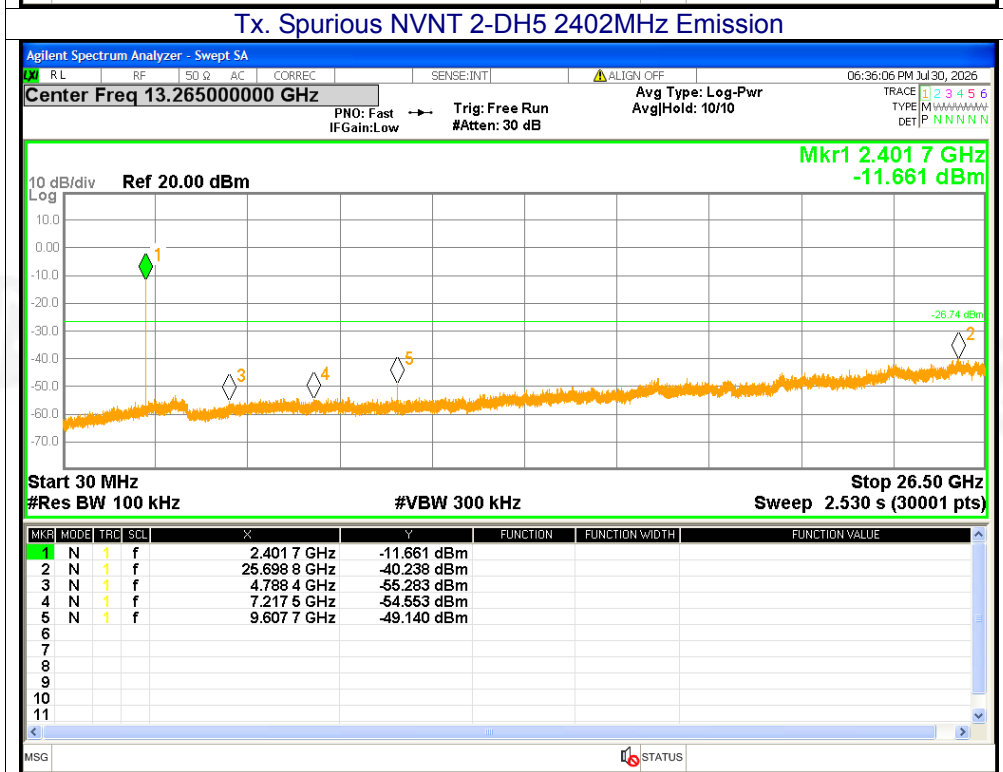
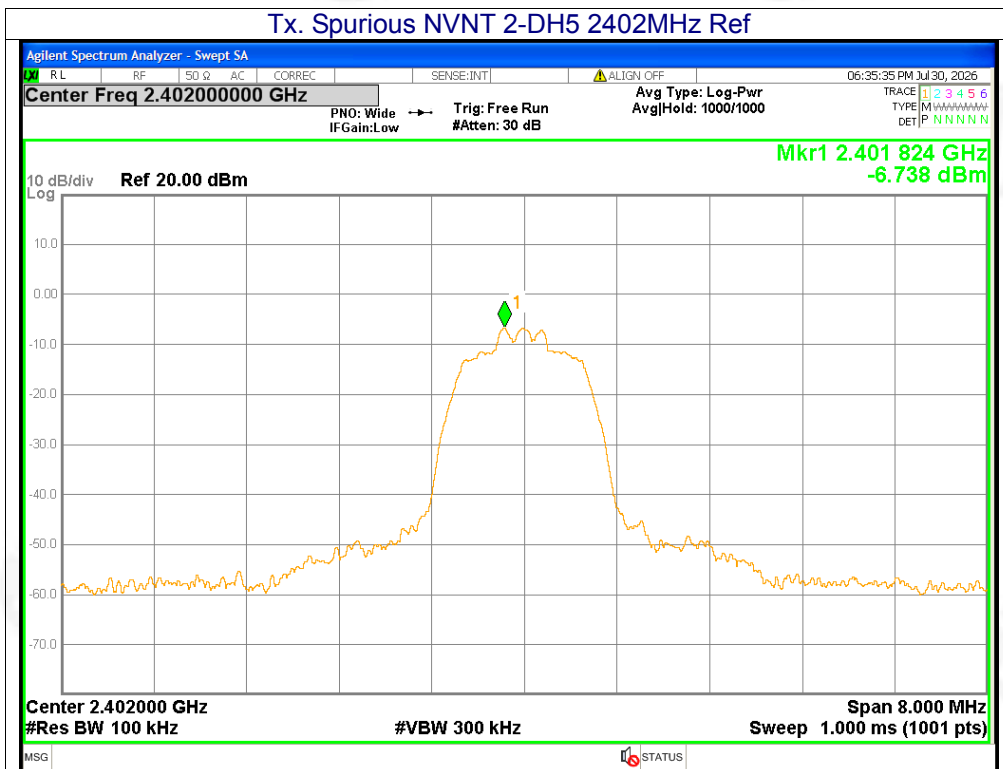
Conducted RF Spurious Emission

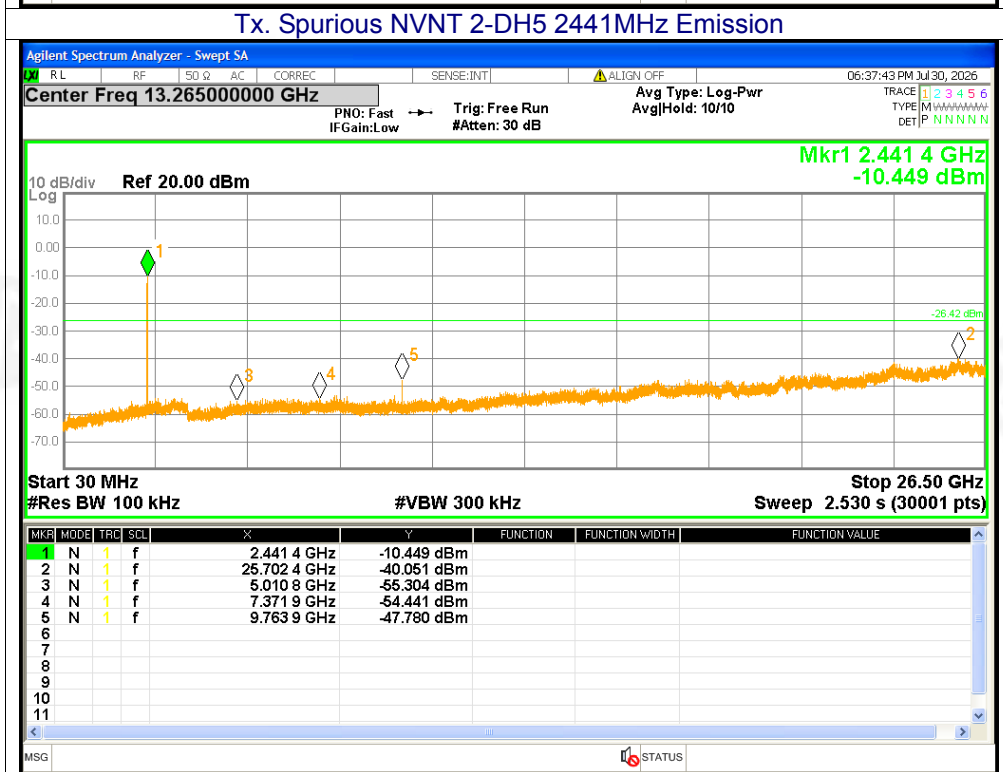
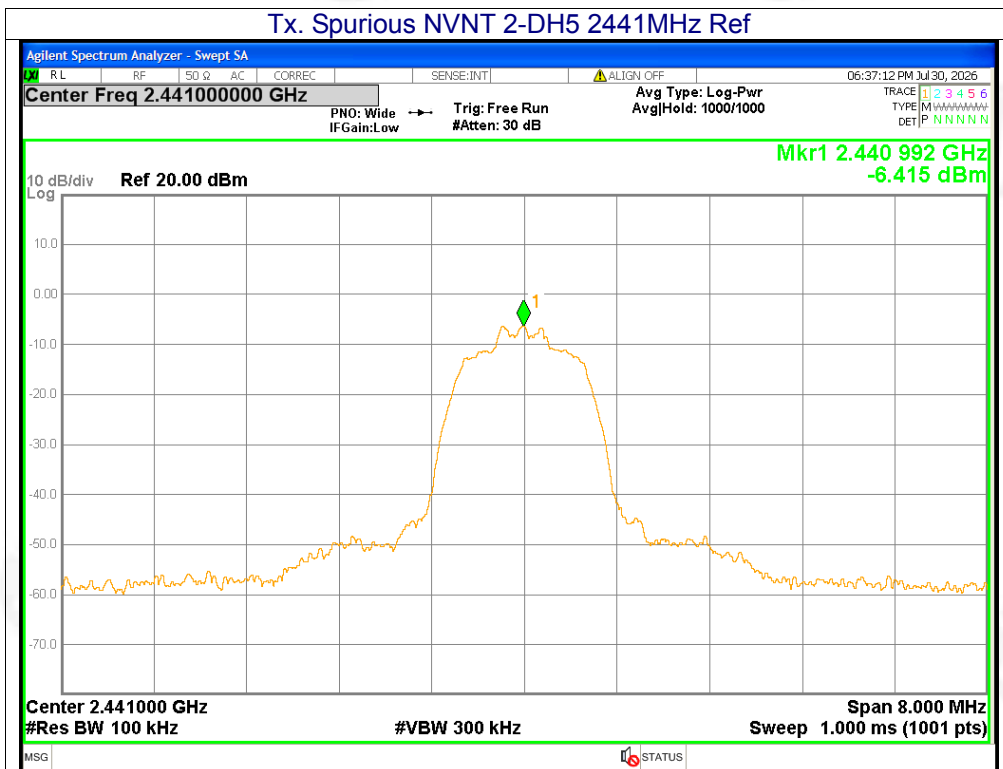
Condition	Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	-34.13	<=-20	Pass
NVNT	1-DH5	2441	-33.45	<=-20	Pass
NVNT	1-DH5	2480	-34.38	<=-20	Pass
NVNT	2-DH5	2402	-33.49	<=-20	Pass
NVNT	2-DH5	2441	-33.64	<=-20	Pass
NVNT	2-DH5	2480	-33.97	<=-20	Pass
NVNT	3-DH5	2402	-33.51	<=-20	Pass
NVNT	3-DH5	2441	-33.54	<=-20	Pass
NVNT	3-DH5	2480	-33.76	<=-20	Pass

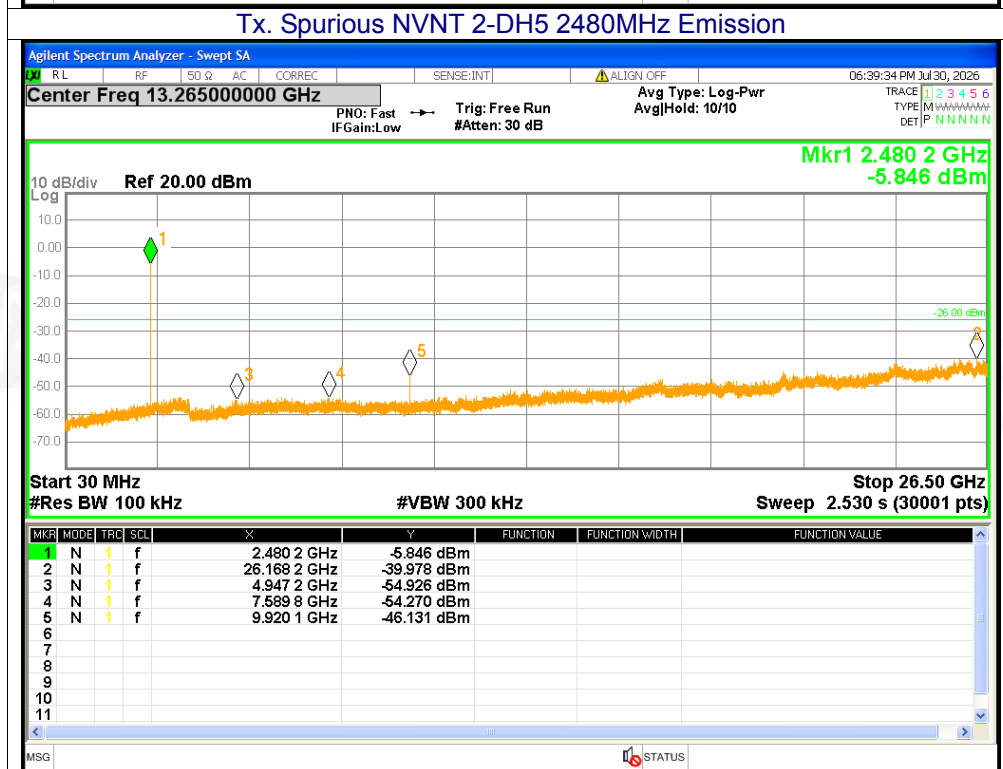
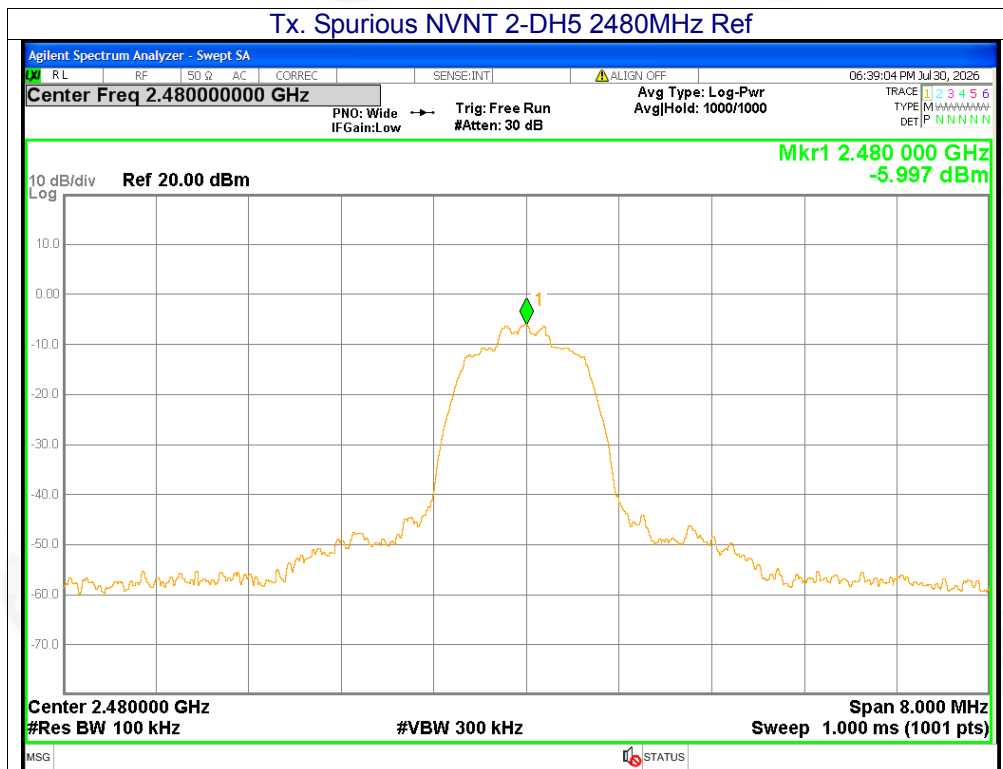


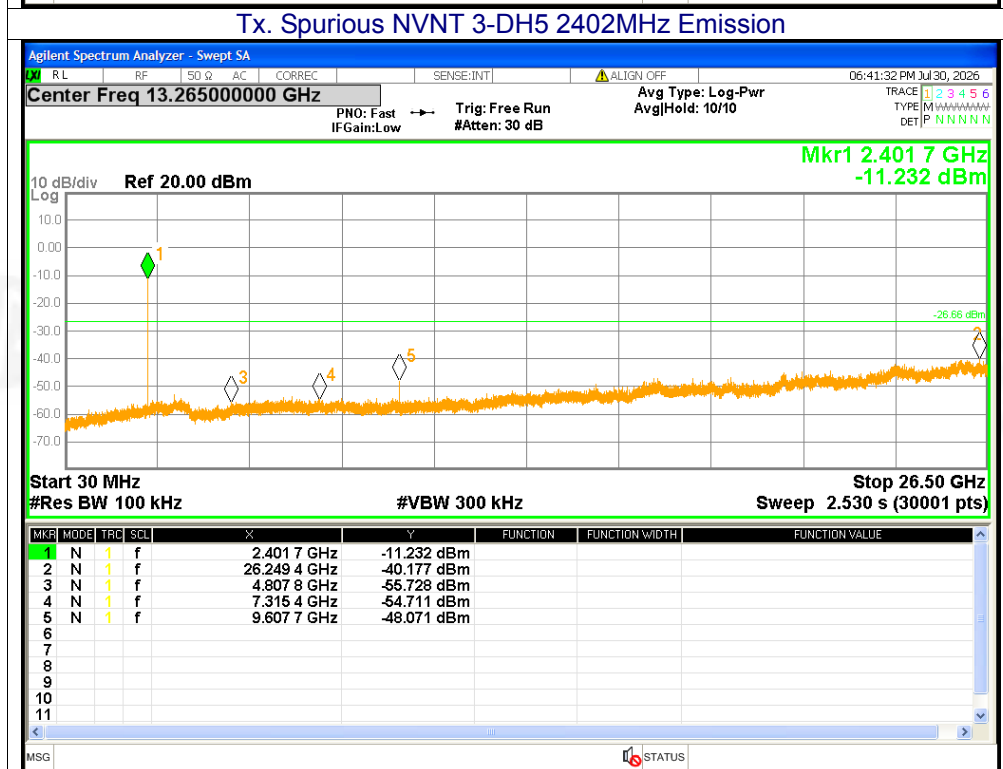
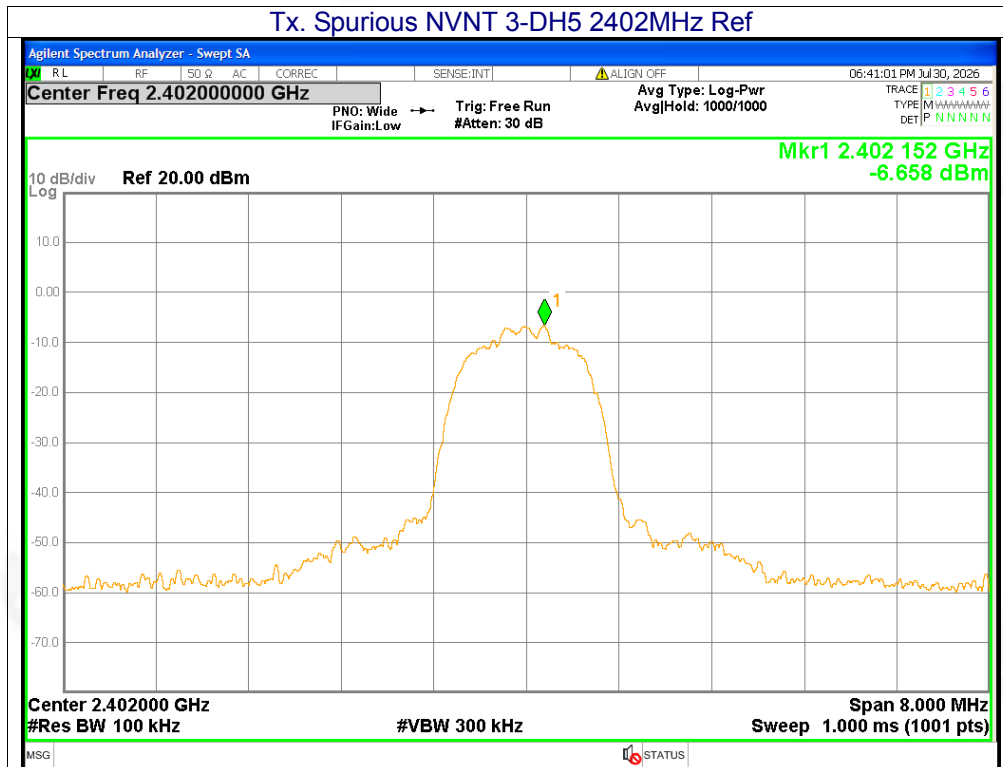


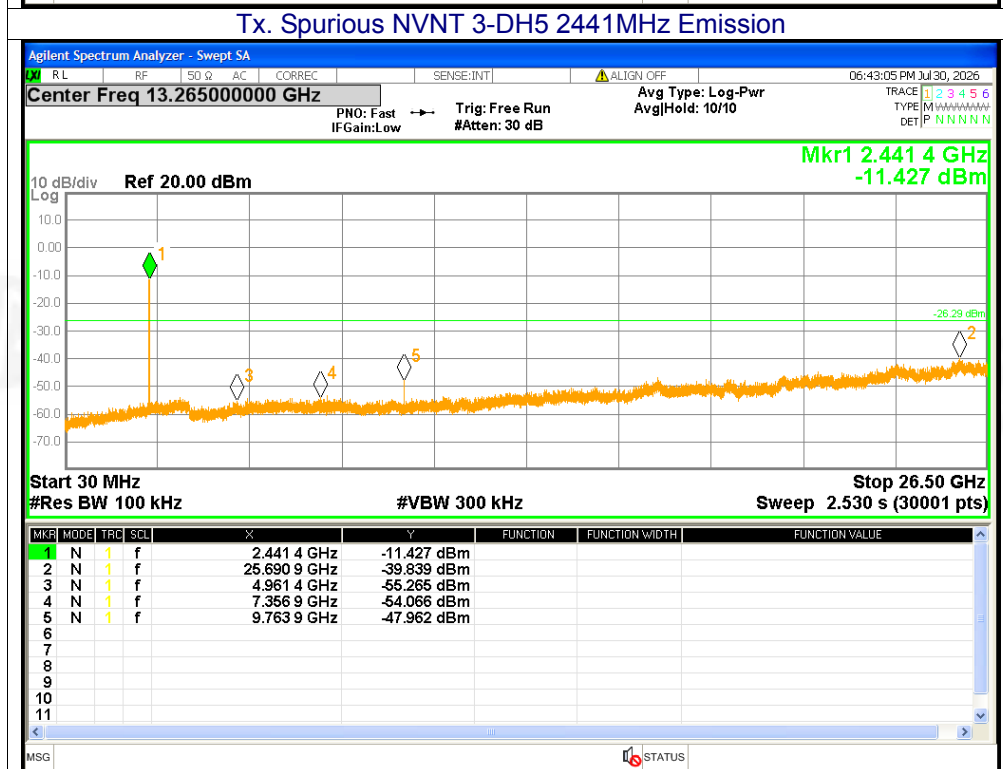
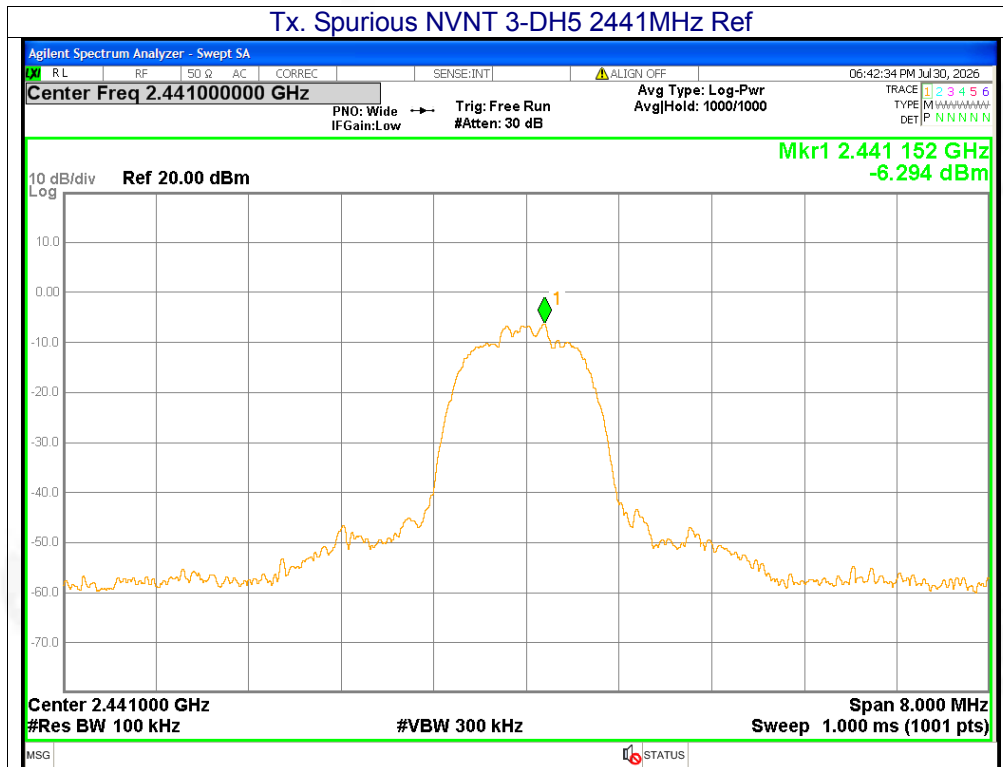


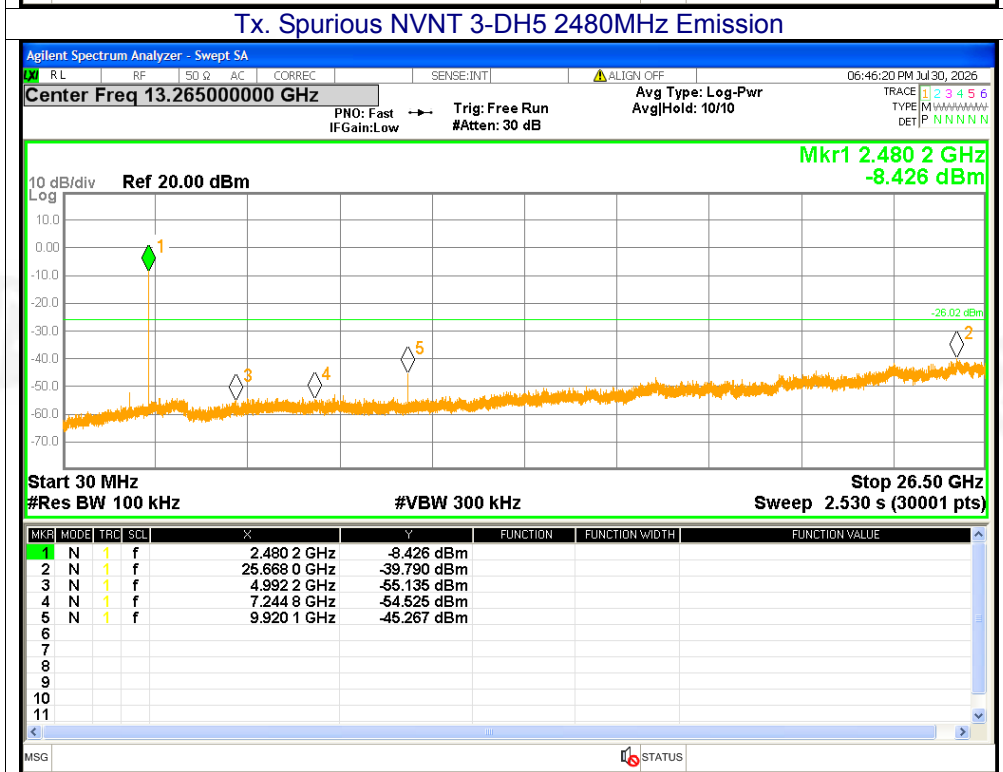
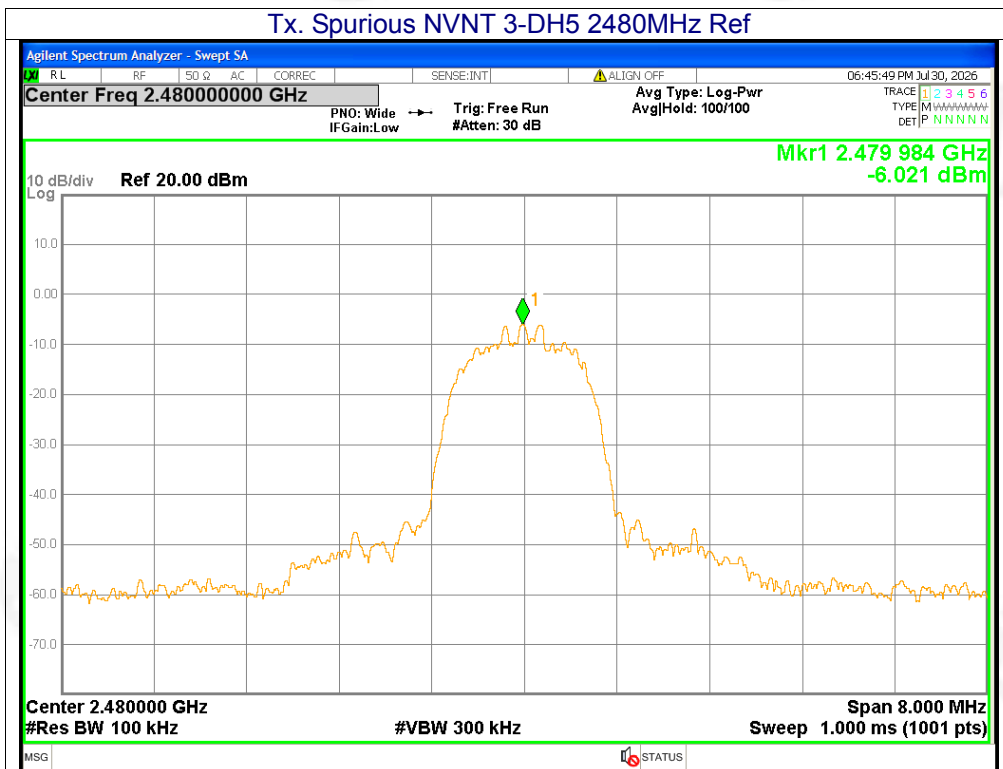














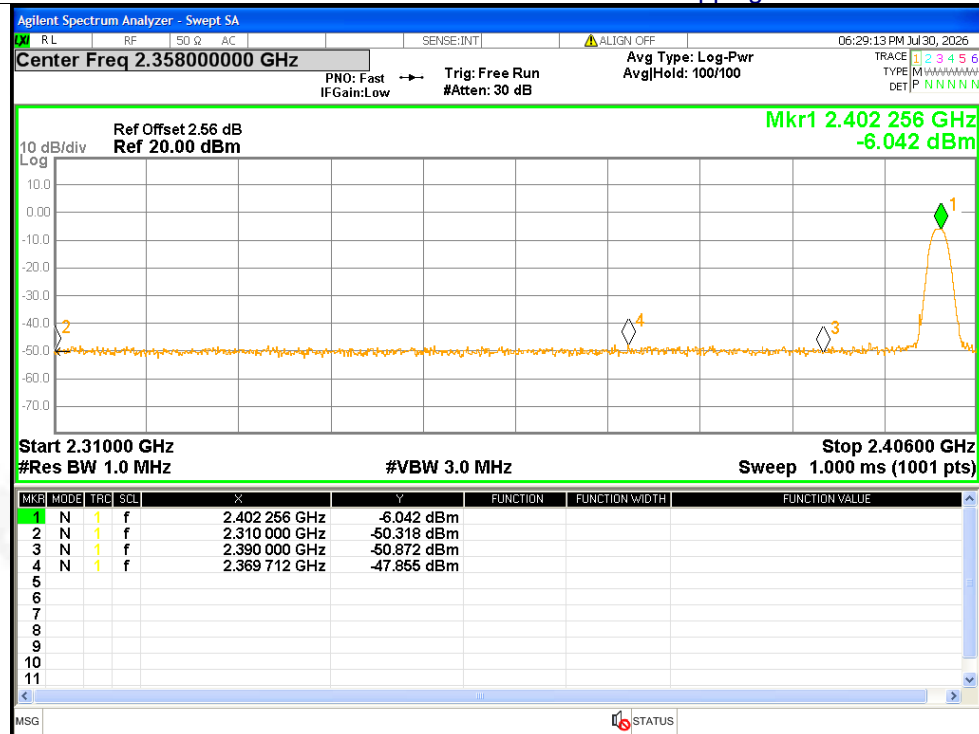
Restrict Band

Condition	Mode	Frequency (MHz)	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	No-Hopping	2310	-50.31	2.7	0	47.65	Peak	<=74	Pass
NVNT	1-DH5	2402	No-Hopping	2310	-57.87	2.7	1.1	41.19	Average	<=54	Pass
NVNT	1-DH5	2402	No-Hopping	2369.712	-47.85	2.7	0	50.11	Peak	<=74	Pass
NVNT	1-DH5	2402	No-Hopping	2378.256	-57.5	2.7	1.1	41.56	Average	<=54	Pass
NVNT	1-DH5	2402	No-Hopping	2390	-50.01	2.7	0	47.95	Peak	<=74	Pass
NVNT	1-DH5	2402	No-Hopping	2390	-58.18	2.7	1.1	40.88	Average	<=54	Pass
NVNT	1-DH5	2480	No-Hopping	2483.5	-48.4	2.7	0	49.56	Peak	<=74	Pass
NVNT	1-DH5	2480	No-Hopping	2483.5	-56.57	2.7	1.1	42.49	Average	<=54	Pass
NVNT	1-DH5	2480	No-Hopping	2483.776	-44.41	2.7	0	53.55	Peak	<=74	Pass
NVNT	1-DH5	2480	No-Hopping	2487.304	-56.51	2.7	1.1	42.55	Average	<=54	Pass
NVNT	1-DH5	2480	No-Hopping	2500	-48.76	2.7	0	49.2	Peak	<=74	Pass
NVNT	1-DH5	2480	No-Hopping	2500	-57.09	2.7	1.1	41.97	Average	<=54	Pass
NVNT	2-DH5	2402	No-Hopping	2310	-50.04	2.7	0	47.92	Peak	<=74	Pass
NVNT	2-DH5	2402	No-Hopping	2310	-58.31	2.7	1.09	40.74	Average	<=54	Pass
NVNT	2-DH5	2402	No-Hopping	2311.344	-46.59	2.7	0	51.37	Peak	<=74	Pass
NVNT	2-DH5	2402	No-Hopping	2313.936	-57.49	2.7	1.09	41.56	Average	<=54	Pass
NVNT	2-DH5	2402	No-Hopping	2390	-50.93	2.7	0	47.03	Peak	<=74	Pass
NVNT	2-DH5	2402	No-Hopping	2390	-58.08	2.7	1.09	40.97	Average	<=54	Pass
NVNT	2-DH5	2480	No-Hopping	2483.5	-49.23	2.7	0	48.73	Peak	<=74	Pass
NVNT	2-DH5	2480	No-Hopping	2483.5	-57.04	2.7	1.09	42.01	Average	<=54	Pass
NVNT	2-DH5	2480	No-Hopping	2483.968	-46.08	2.7	0	51.88	Peak	<=74	Pass
NVNT	2-DH5	2480	No-Hopping	2483.704	-56.53	2.7	1.09	42.52	Average	<=54	Pass
NVNT	2-DH5	2480	No-Hopping	2500	-49.57	2.7	0	48.39	Peak	<=74	Pass
NVNT	2-DH5	2480	No-Hopping	2500	-57.81	2.7	1.09	41.24	Average	<=54	Pass
NVNT	3-DH5	2402	No-Hopping	2310	-50.48	2.7	0	47.48	Peak	<=74	Pass
NVNT	3-DH5	2402	No-Hopping	2310	-57.77	2.7	1.09	41.28	Average	<=54	Pass
NVNT	3-DH5	2402	No-Hopping	2311.248	-47.35	2.7	0	50.61	Peak	<=74	Pass
NVNT	3-DH5	2402	No-Hopping	2388.528	-57.51	2.7	1.09	41.54	Average	<=54	Pass
NVNT	3-DH5	2402	No-Hopping	2390	-49.92	2.7	0	48.04	Peak	<=74	Pass
NVNT	3-DH5	2402	No-Hopping	2390	-58.69	2.7	1.09	40.36	Average	<=54	Pass
NVNT	3-DH5	2480	No-Hopping	2483.5	-47.27	2.7	0	50.69	Peak	<=74	Pass
NVNT	3-DH5	2480	No-Hopping	2483.5	-56.54	2.7	1.09	42.51	Average	<=54	Pass
NVNT	3-DH5	2480	No-Hopping	2486.608	-46.19	2.7	0	51.77	Peak	<=74	Pass
NVNT	3-DH5	2480	No-Hopping	2483.536	-56.5	2.7	1.09	42.55	Average	<=54	Pass
NVNT	3-DH5	2480	No-Hopping	2500	-49.25	2.7	0	48.71	Peak	<=74	Pass
NVNT	3-DH5	2480	No-Hopping	2500	-56.92	2.7	1.09	42.13	Average	<=54	Pass

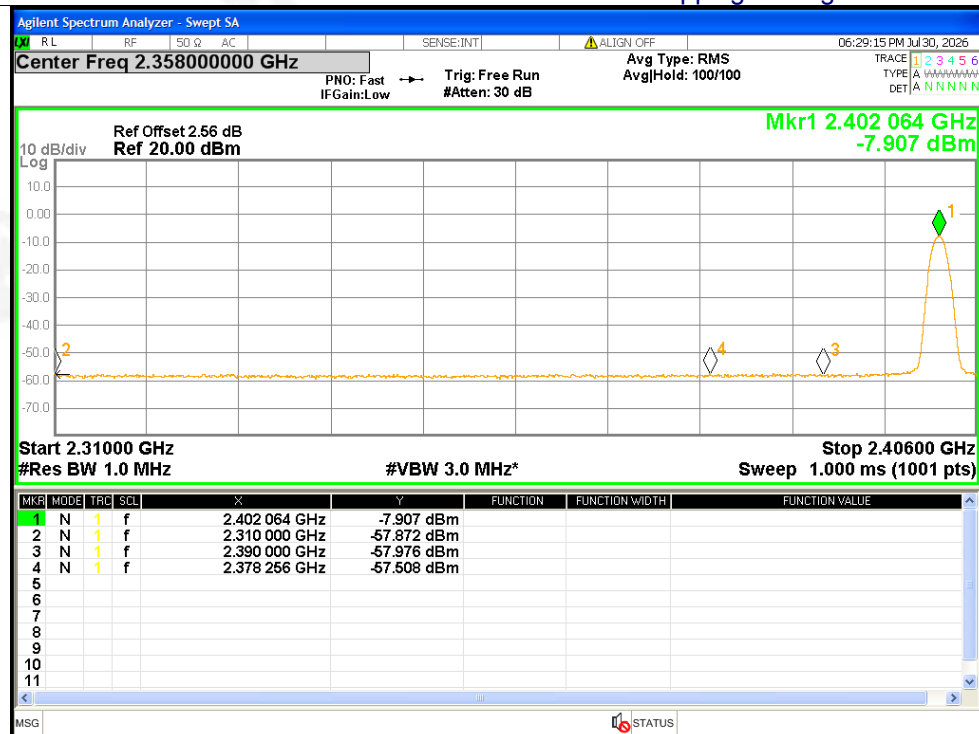


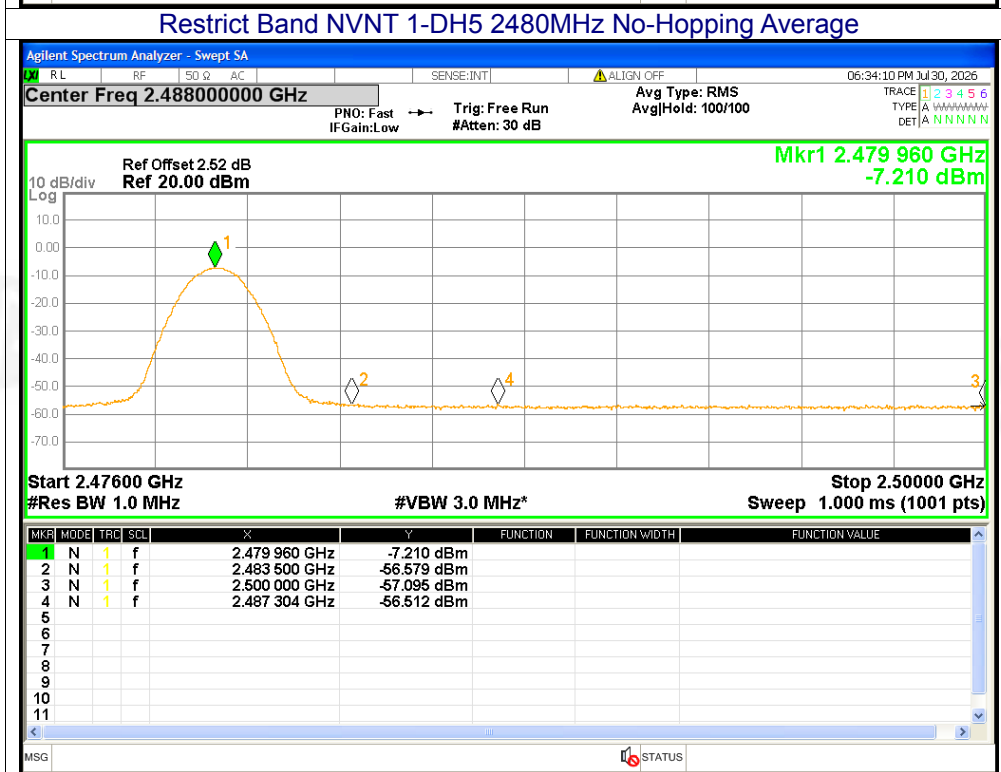
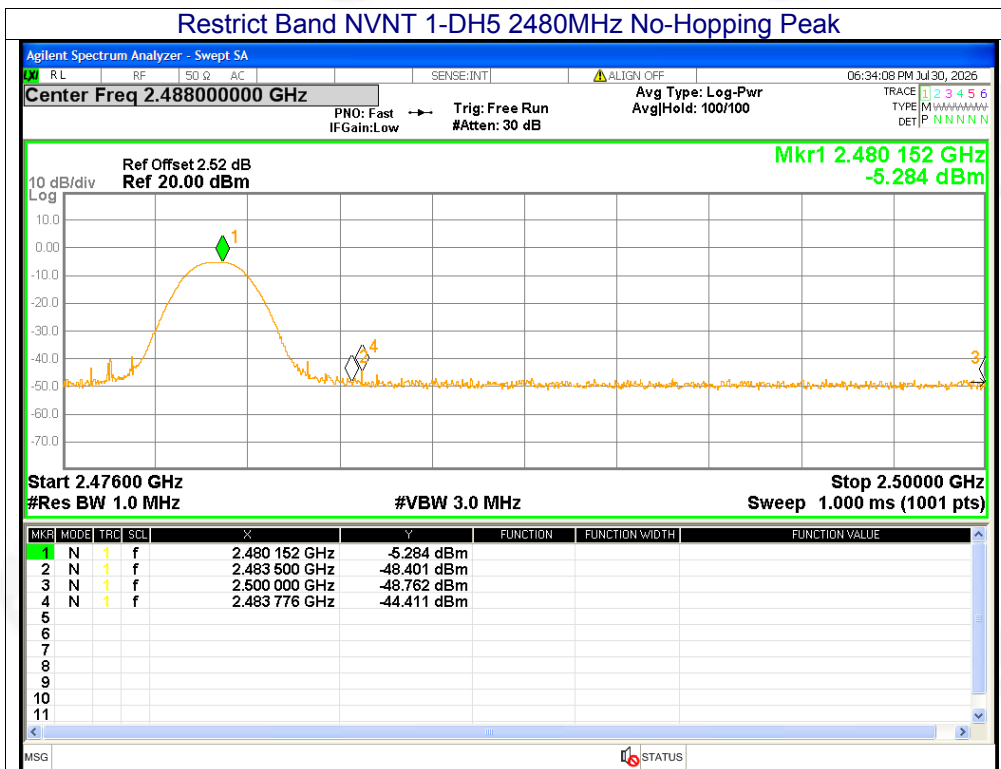
Test Graphs

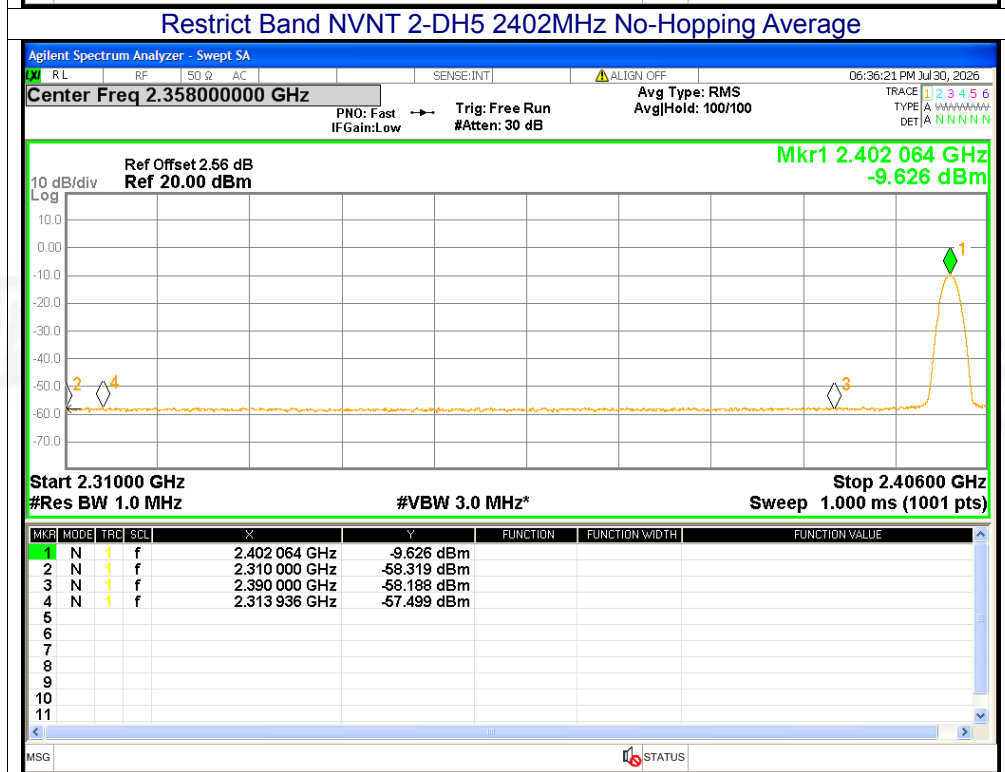
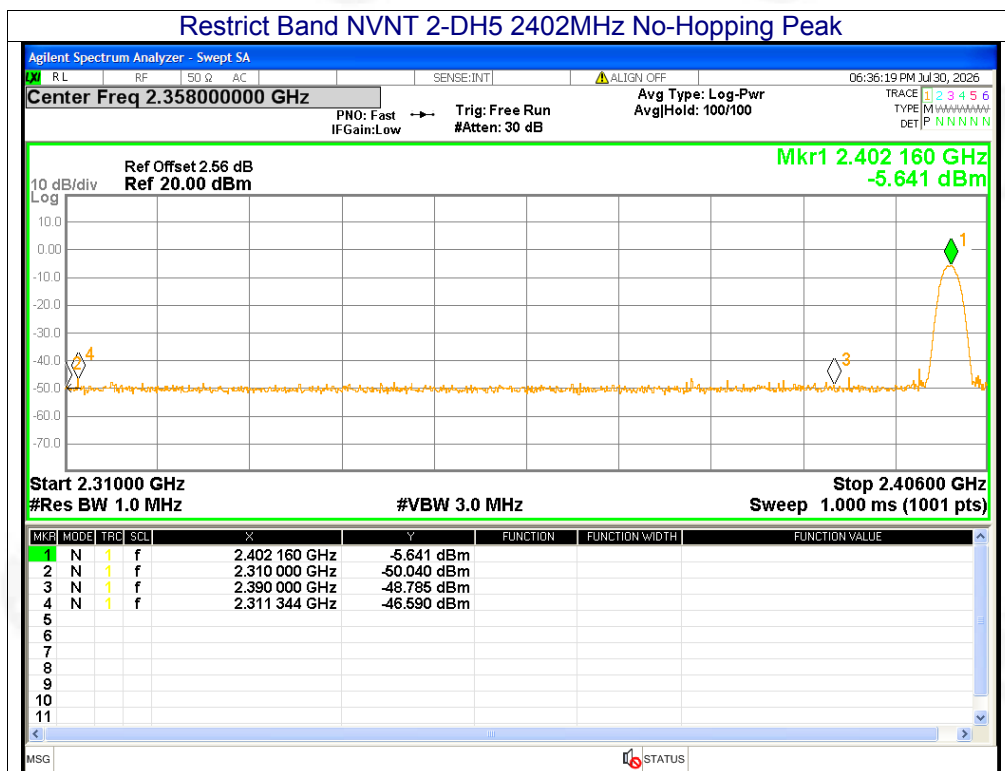
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Peak

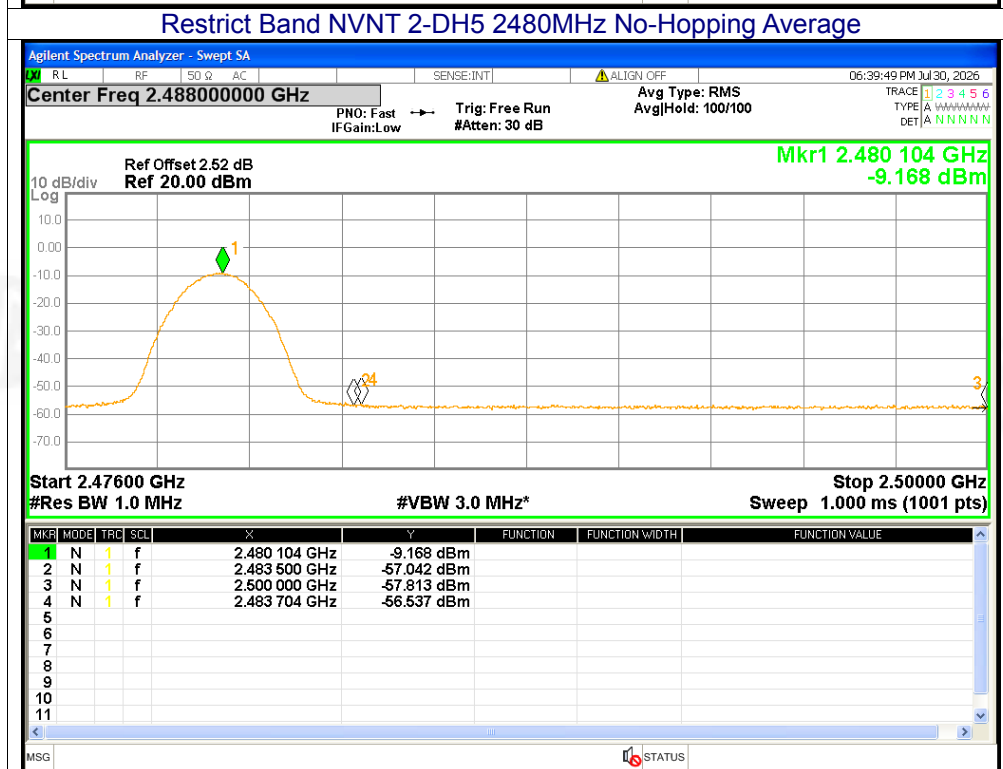
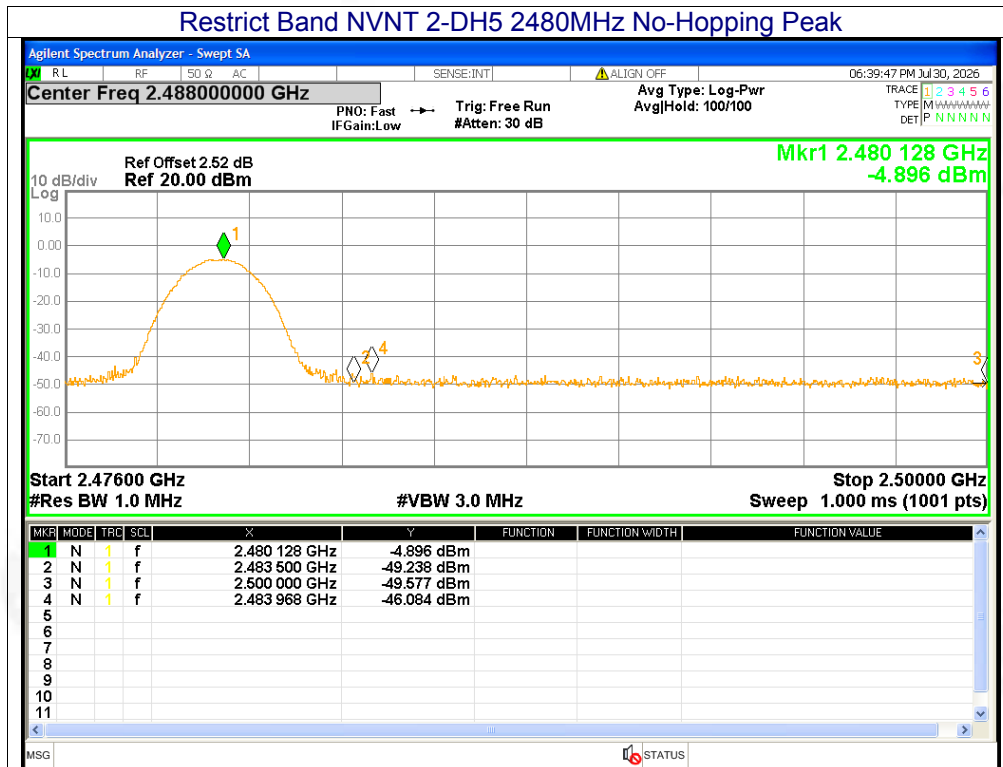


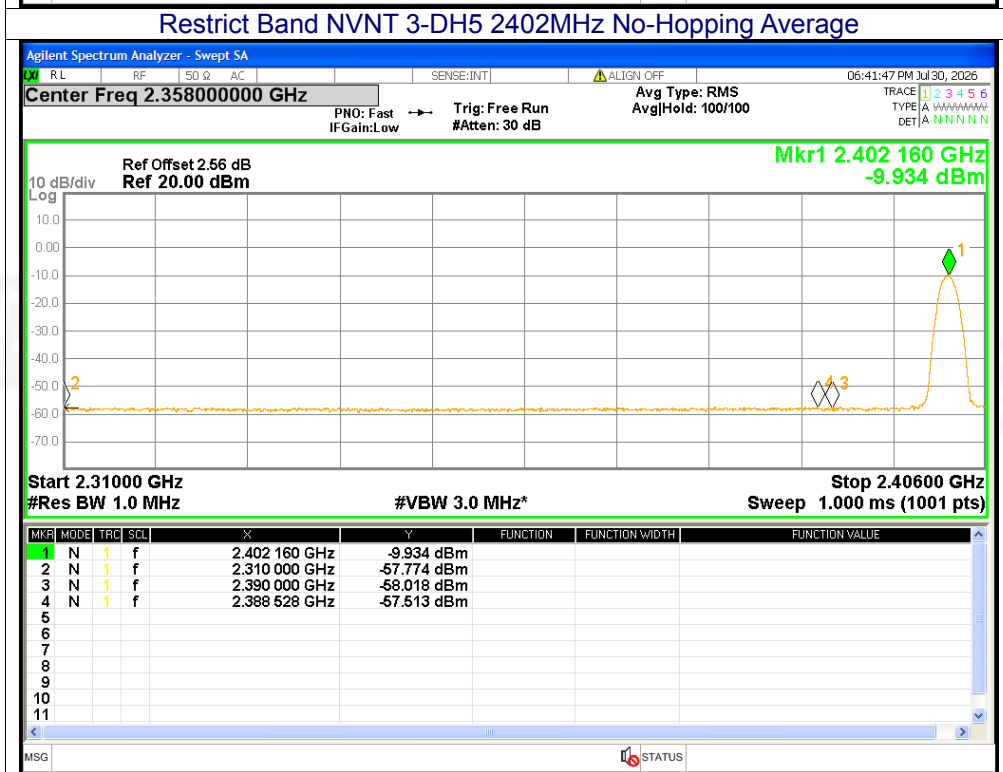
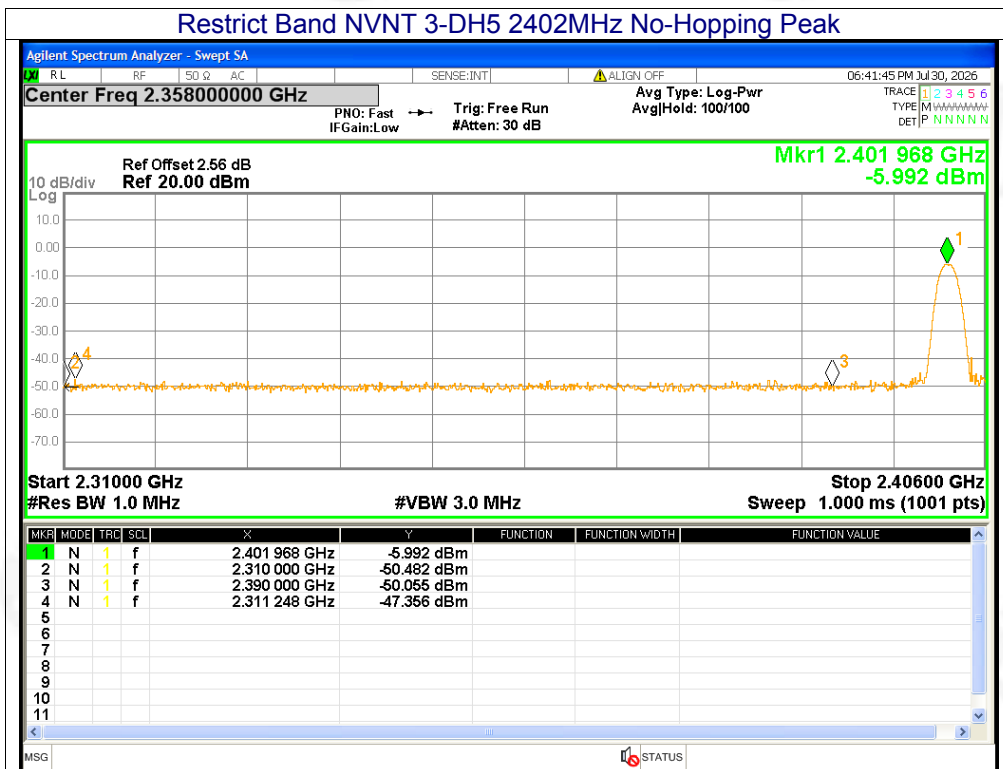
Restrict Band NVNT 1-DH5 2402MHz No-Hopping Average

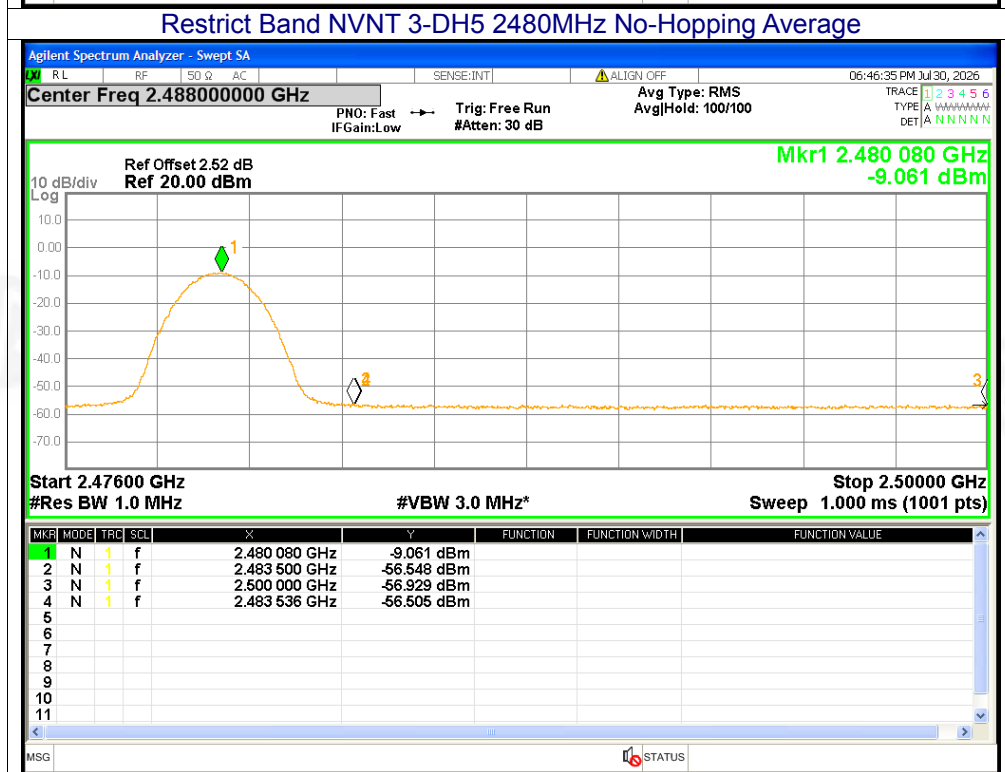
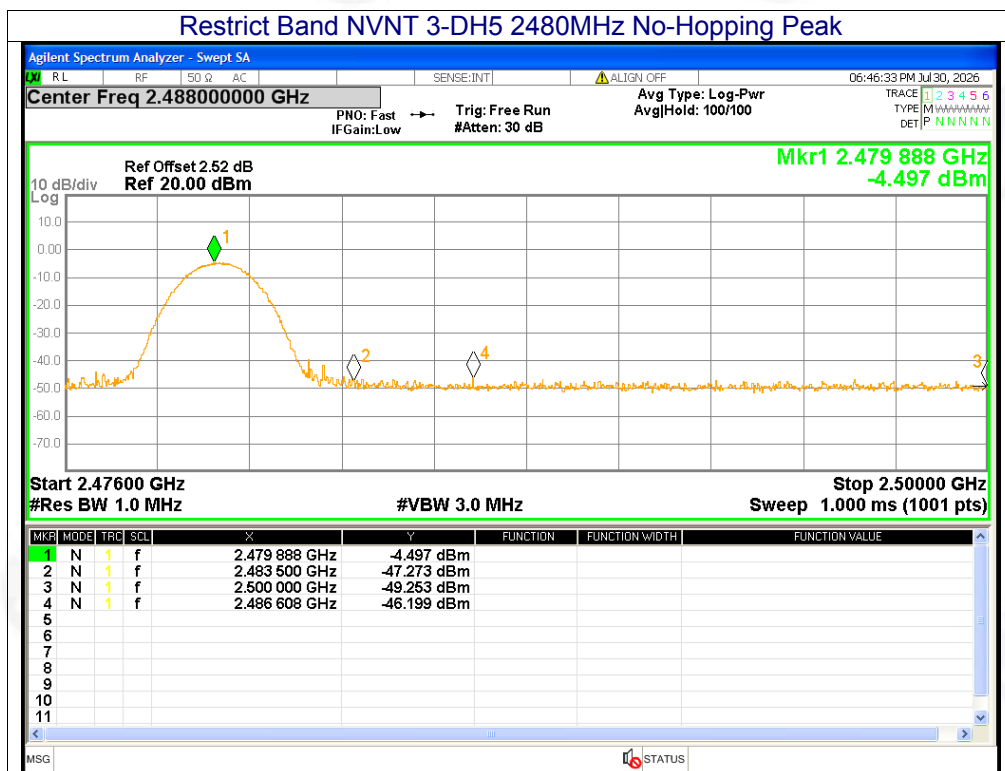














13. Test Setup Photo

Reference to the appendix I for details.

14. EUT Constructional Details

Reference to the appendix II for details.

***** END OF REPORT *****