



REPORT No.: SZ23120059W02

TEST REPORT

APPLICANT : BLU Products, Inc.

PRODUCT NAME : Smart Phone

MODEL NAME : G33, C7 MAX

BRAND NAME : BLU

FCC ID : YHLBLUG33TT

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2023-12-06

TEST DATE : 2023-12-07 to 2023-12-27

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Change History		
Version	Date	Reason for change
1.0	2024-02-02	First edition



1. Summary of Test Result

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	15.247(a) 15.247(h)	Hopping Mechanism	N/A	N/A	PASS	No deviation
3	15.247(a)	Number of Hopping Frequency	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
4	ANSI C63.10	Duty Cycle	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
5	15.247(b)	Maximum Peak Conducted Output Power	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
6	15.247(b)	Maximum Average Conducted Output Power	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
7	15.247(a)	20dB Bandwidth	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
8	15.247(a)	Carrier Frequency Separation	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
9	15.247(a)	Time of Occupancy (Dwell time)	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
10	15.247(d)	Conducted Spurious Emission	Dec. 08, 2023	Zhong Yanshan	PASS	No deviation
11	15.207	Conducted Emission	Dec. 11, 2023	Fan Zehang	PASS	No deviation
12	15.247(d)	Restricted Frequency Bands	Dec. 25, 2023	Lin Jiayong	PASS	No deviation
13	15.209,	Radiated	Dec. 25, 2023	Li Hanbin	PASS	No deviation



	15.247(d)	Emission				
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Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013, KDB558074 D01 v05r02 and DA 00-075.

Note 2: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.1. Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C Radio Frequency Devices



1.2. Test Equipment List

1.2.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2023.02.27	2024.02.26
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A

1.2.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2023.02.09	2024.02.08
LISN	8127449	NSLK 8127	Schwarzbeck	2023.02.21	2024.02.20
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2023.06.27	2024.06.26
RF Coaxial Cable (DC-100MHz)	BNC	MRE04	Qualwave	N/A	N/A

1.2.3 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS36-RSE]	Tonscend	V3.0.0.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

**1.2.4 Radiated Test Equipments**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2023.06.21	2024.06.20
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2023.06.26	2024.06.25
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2023.07.01	2024.06.30
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2023.06.27	2024.06.26
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2023.06.27	2024.06.26
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-K K-0.5	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-K KF-2	Qualwave	2023.07.04	2024.07.03
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-N N-5	Qualwave	2023.07.04	2024.07.03
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09



1.3. Measurement Uncertainty

Test Items	Uncertainty	Remark
Number of Hopping Frequency	±5%	Confidence levels of 95%
Peak Output Power	±2.22dB	Confidence levels of 95%
Bandwidth	±5%	Confidence levels of 95%
Carrier Frequency Separation	±5%	Confidence levels of 95%
Time of Occupancy (Dwell time)	±5%	Confidence levels of 95%
Conducted Spurious Emission	±2.77dB	Confidence levels of 95%
Restricted Frequency Bands	±5%	Confidence levels of 95%
Radiated Emission	±2.95dB	Confidence levels of 95%
Conducted Emission	±2.44dB	Confidence levels of 95%

1.4. Testing Laboratory

Laboratory Name	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone	+86 755 36698555
Facsimile	+86 755 36698525
FCC Designation Number	CN1192
FCC Test Firm Registration Number	226174



2. General Description

2.1. Information of Applicant and Manufacturer

Applicant	BLU Products, Inc.
Applicant Address	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA
Manufacturer	BLU Products, Inc.
Manufacturer Address	8600 NW 36th Street, Suite #300 Miami, FL 33166, USA

2.2. Information of EUT

Product Name:	Smart Phone	
Sample No.:	1#	
Hardware Version:	A507-MB-V2.9A	
Software Version:	BLU_G0894_V13.0.G.05.00_TIGO 31-10-2023	
Equipment Type:	Bluetooth classic	
Bluetooth Version:	4.2	
Modulation Type:	FHSS (GFSK(1Mbps), $\pi/4$ -DQPSK(EDR 2Mbps), 8-DPSK(EDR 3Mbps))	
Operating Frequency Range:	2402MHz-2480MHz	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-1.37dBi	
Accessory Information:	Battery	
	Brand Name:	BLU
	Model No.:	C876540300L
	Serial No.:	N/A
	Capacity:	3000mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	PHENIX NEW ENERGY(HUIZHOU)CO.,LTD.



Accessory Information:	AC Adapter	
	Brand Name:	BLU
	Model No.:	US-TY-1000
	Serial No.:	N/A
	Rated Output:	5V $\Rightarrow$ 1000mA
	Rated Input:	100-240V $\sim$ 50/60Hz,0.3A
	Manufacturer:	SHENZHEN TIANYIN ELECTRONICS CO., LTD.

Note 1: According to the certificate holder, they declared that the models G33, C7 MAX only the model names are different for trading purpose, everything else is the same. The main measuring model is G33, only the results for G33 were recorded in this report.

Note 2: We use the dedicated software to control the EUT continuous transmission.

Note 3: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.



2.3.Channel List of EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

Note 1: The black bold channels were selected for test.

2.4. Test Configuration of EUT

Test mode is used to control the EUT under the maximum power level during test.

2.5. Test Conditions

Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

2.6. Test Setup Layout Diagram

2.6.1. Conducted Measurement



2.6.2. Conducted Emission Measurement



2.6.3.Radiation Measurement

1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz





3. Test Results

3.1. Antenna Requirement

3.1.1. Requirement

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.2. Test Result

Inside of the EUT has a PIFA antenna coupled with the metal shrapnel. Please refer to the EUT internal photos.

3.2. Hopping Mechanism

3.2.1. Requirement

According to FCC section 15.247(a)(1), a frequency hopping spread spectrum system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

According to FCC section 15.247(h), the incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

3.2.2. Test Result

The hopping mechanism of the EUT is in compliance with the document "**Bluetooth core specification v5.1**".



3.3. Number of Hopping Frequency

3.3.1. Requirement

According to FCC section 15.247(a)(1)(iii), frequency hopping systems operating in the 2400MHz to 2483.5MHz bands shall use at least 15 hopping frequencies.

3.3.2. Test Procedures

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.1 in this report.



3.4. Duty Cycle of Test Signal

3.4.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).

When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this sub clause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than $\pm 2\%$; otherwise, the duty cycle is considered to be non constant.

3.4.2. Test Result

Refer to Annex A.2 in this report.



3.5. Maximum Peak Conducted Output Power

3.5.1. Requirement

According to FCC section 15.247(b)(1), for frequency hopping systems that operates in the 2400MHz to 2483.5MHz band employing at least 75 hopping channels, the maximum peak output power of the intentional radiator shall not exceed 1Watt. For all other frequency hopping systems in the 2400MHz to 2483.5MHz band, it is 0.125Watts.

3.5.2. Test Procedures

KDB 558074 Section 8.3.1 was used in order to prove compliance.

3.5.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.4. Test Result

Refer to Annex A.3 in this report.



3.6. Maximum Average Conducted Output Power

3.6.1. Requirement

According to FCC section 15.247(b)(1), for frequency hopping systems that operates in the 2400MHz to 2483.5MHz band employing at least 75 hopping channels, the maximum peak output power of the intentional radiator shall not exceed 1Watt. For all other frequency hopping systems in the 2400MHz to 2483.5MHz band, it is 0.125Watts.

3.6.2. Test Procedures

KDB 558074 Section 8.3.2 was used in order to prove compliance.

3.6.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.6.4. Test Result

Refer to Annex A.4 in this report.



3.7.20 dB Bandwidth

3.7.1.Requirement

According to FCC section 15.247(a)(1), the 20 dB bandwidth is known as the 99% emission bandwidth, or 20 dB bandwidth ($10 \cdot \log 1\% = 20 \text{ dB}$) taking the total RF output power.

3.7.1.Test Procedures

Use the following spectrum analyzer settings:

Span = between 2 to 5 times the OBW, centered on the test channel

RBW= 1% to 5% of the OBW

VBW $\geq 3 \times$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

3.7.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.7.3.Test Result

Refer to Annex A.5 in this report.



3.8. Carried Frequency Separation

3.8.1. Requirement

According to FCC section 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

3.8.2. Test Procedures

The EUT must have its hopping function enabled. According to DA 00-705, use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

3.8.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.8.4. Test Result

Refer to Annex A.6 in this report.



3.9. Time of Occupancy (Dwell time)

3.9.1. Requirement

According to FCC section 15.247(a) (1) (iii), frequency hopping systems in the 2400 - 2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

3.9.2. Test Procedures

Normal Mode:

DH1: Dwell time equal to Pulse time (ms) $\times (1600 / 2 / 79) \times 31.6$ Millisecond
DH3: Dwell time equal to Pulse time (ms) $\times (1600 / 4 / 79) \times 31.6$ Millisecond
DH5: Dwell time equal to Pulse Time (ms) $\times (1600 / 6 / 79) \times 31.6$ Millisecond

AFH Mode:

DH1: Dwell time equal to Pulse time (ms) $\times (800 / 2 / 20) \times (0.4 \times 20)$ Millisecond
DH3: Dwell time equal to Pulse time (ms) $\times (800 / 4 / 20) \times (0.4 \times 20)$ Millisecond
DH5: Dwell time equal to Pulse Time (ms) $\times (800 / 6 / 20) \times (0.4 \times 20)$ Millisecond.

3.9.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.9.4. Test Result

Refer to Annex A.7 in this report.



3.10. Conducted Spurious Emissions and Band Edge

3.10.1.Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

3.10.2.Test Procedures

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

3.10.3.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.10.4.Test Result

Refer to Annex A.8 and A.9 in this report.

3.11. Conducted Emission

3.11.1.Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

Note:

- (a) The lower limit shall apply at the band edges.
- (b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

3.11.2.Test Procedures

The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

3.11.3.Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.11.4.Test Result

Refer to Annex A.10 in this report.



3.12. Restricted Frequency Bands

3.12.1.Requirement

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

3.12.2.Test Procedures

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{GHz}$

VBW = 3 MHz

Sweep = auto

Detector function = peak/average

Trace = max hold

Allow the trace to stabilize

3.12.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.12.4.Test Result

Refer to Annex A.11 in this report.

3.13. Radiated Emission

3.13.1.Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
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

Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2:For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).



3.13.2.Test Procedures

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9kHz-90 kHz, 110kHz-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements or 120kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements and as applicable for average measurements.

The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. For measurements above 1 GHz, keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response.

3.13.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.13.4.Test Result

Refer to Annex A.12 in this report.



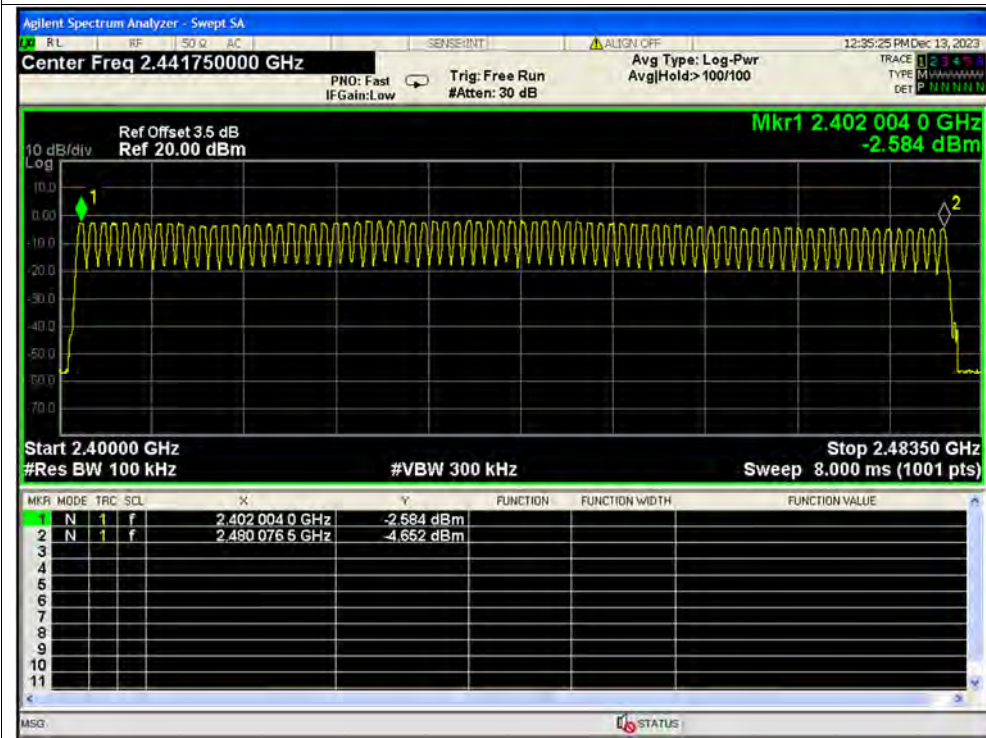
Annex A Test Data and Result

A.1. Number of Hopping Frequency

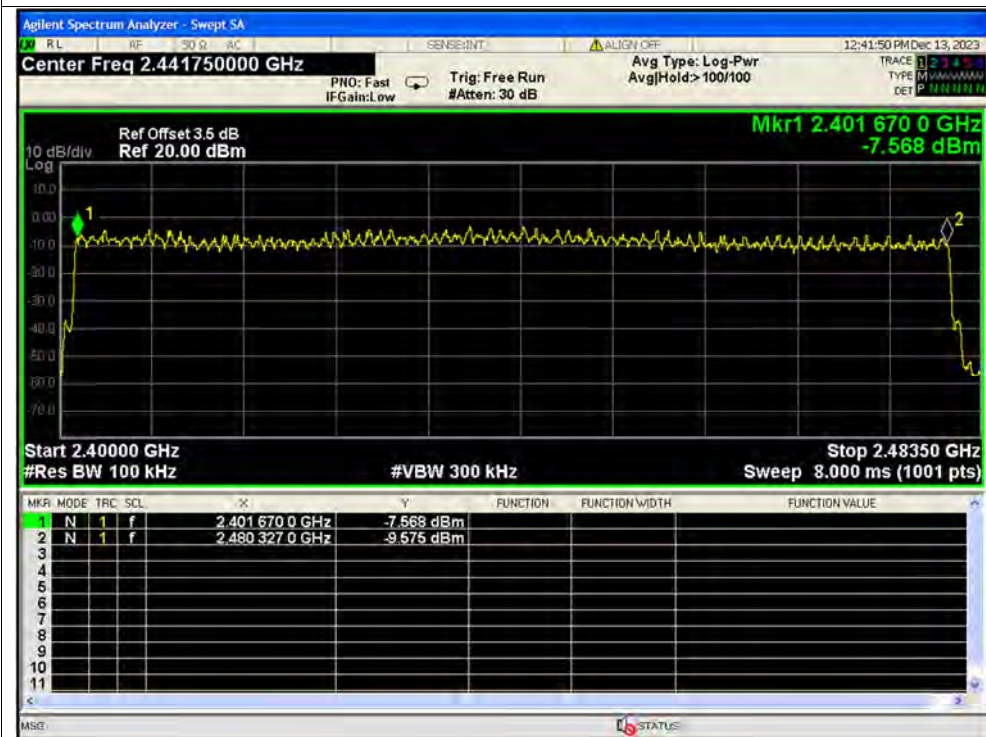
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

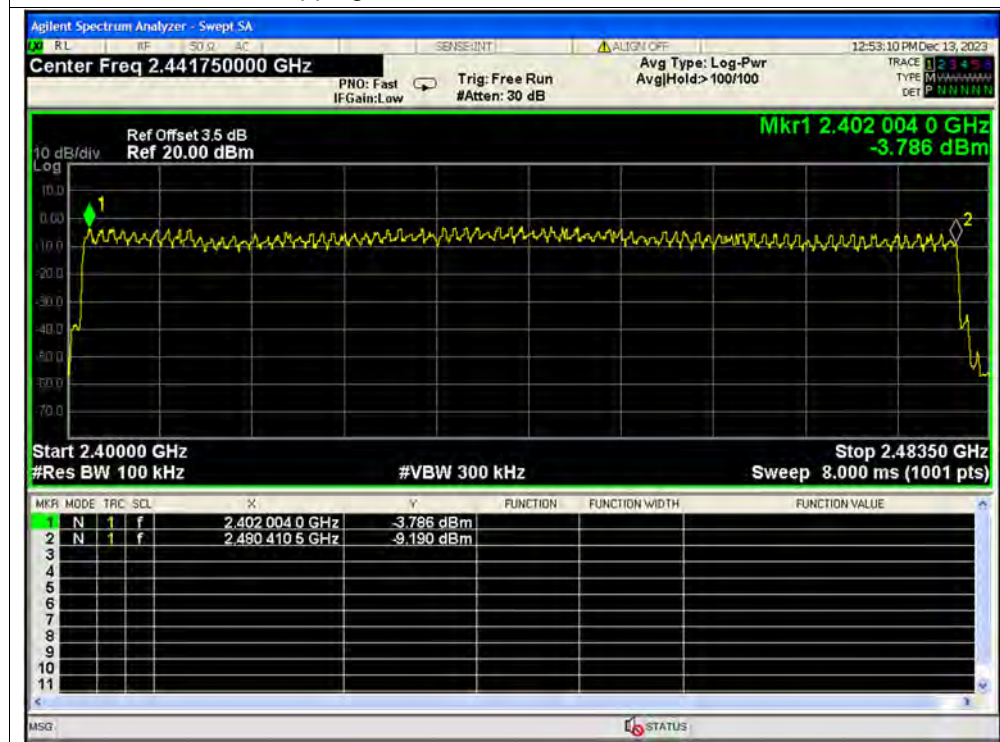


Hopping No. NVNT 2-DH5 2402MHz Ant1





Hopping No. NVNT 3-DH5 2402MHz Ant1

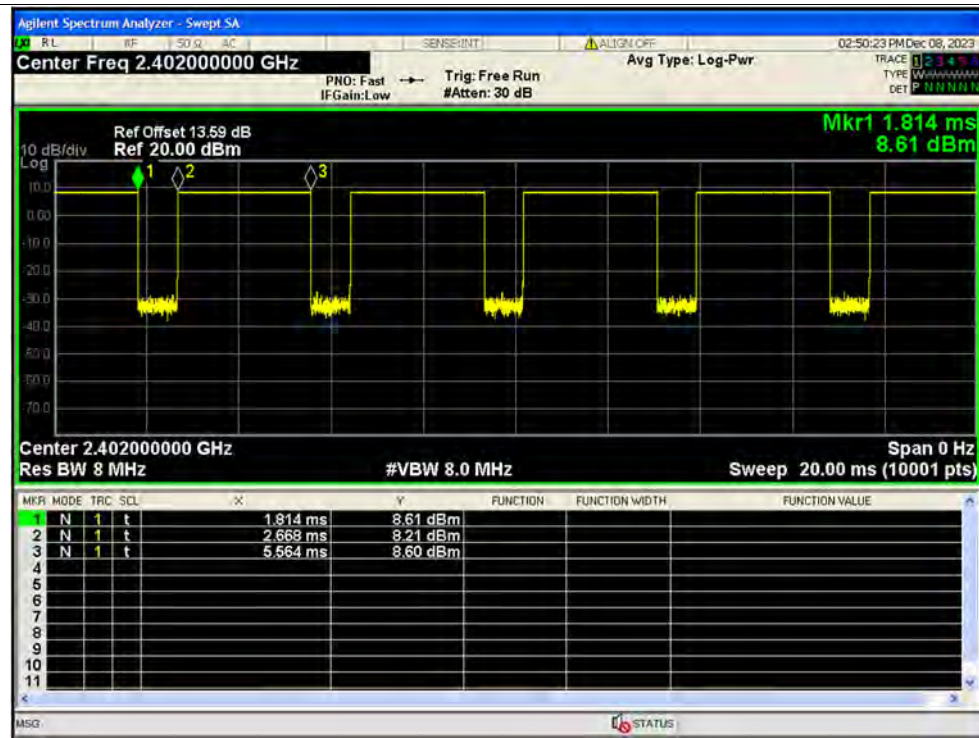


**A.2. Duty Cycle of Test Signal**

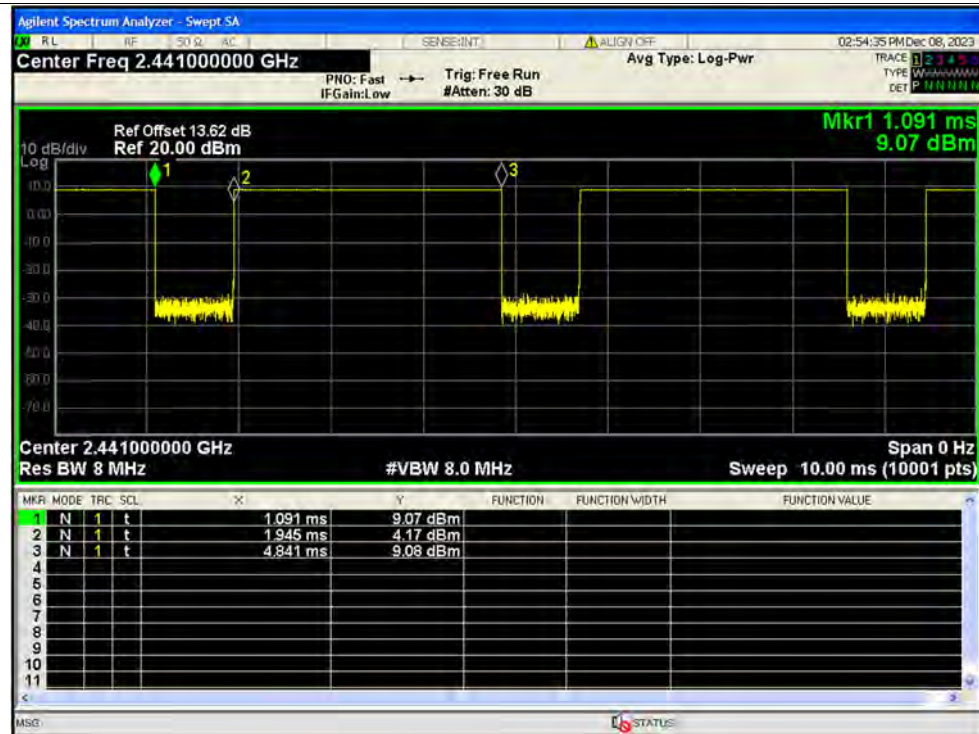
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.23	1.12	0.35
NVNT	1-DH5	2441	Ant1	77.23	1.12	0.35
NVNT	1-DH5	2480	Ant1	77.25	1.12	0.35
NVNT	2-DH5	2402	Ant1	76.91	1.14	0.35
NVNT	2-DH5	2441	Ant1	76.91	1.14	0.35
NVNT	2-DH5	2480	Ant1	76.91	1.14	0.35
NVNT	3-DH5	2402	Ant1	76.91	1.14	0.35
NVNT	3-DH5	2441	Ant1	76.91	1.14	0.35
NVNT	3-DH5	2480	Ant1	76.91	1.14	0.35

Test Graphs

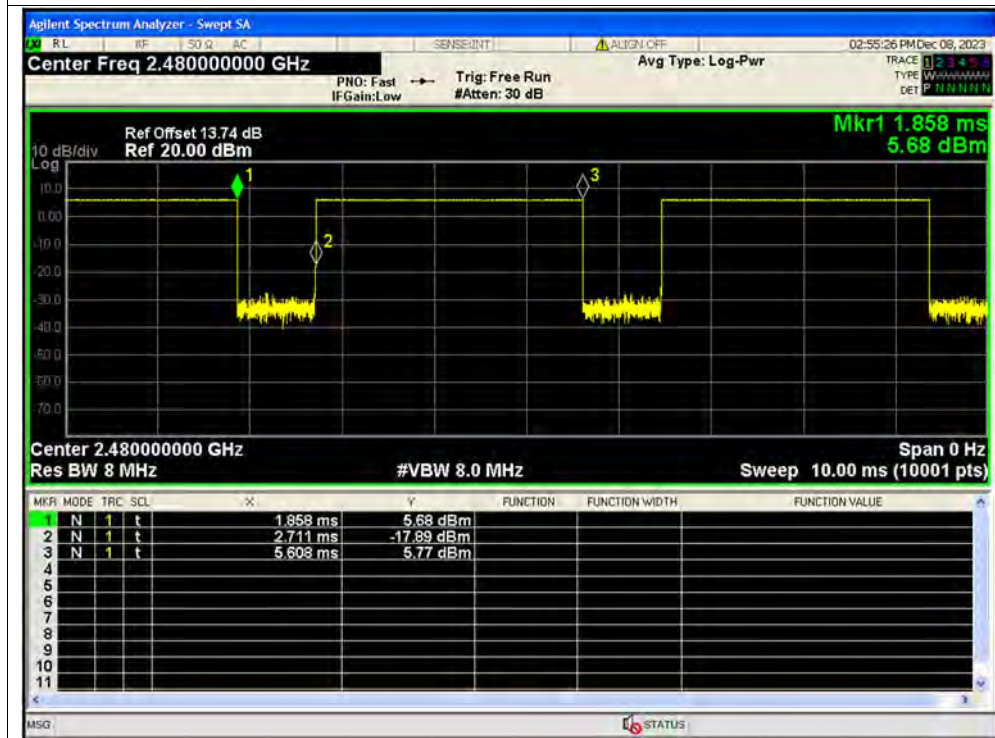
Duty Cycle NVNT 1-DH5 2402MHz Ant1



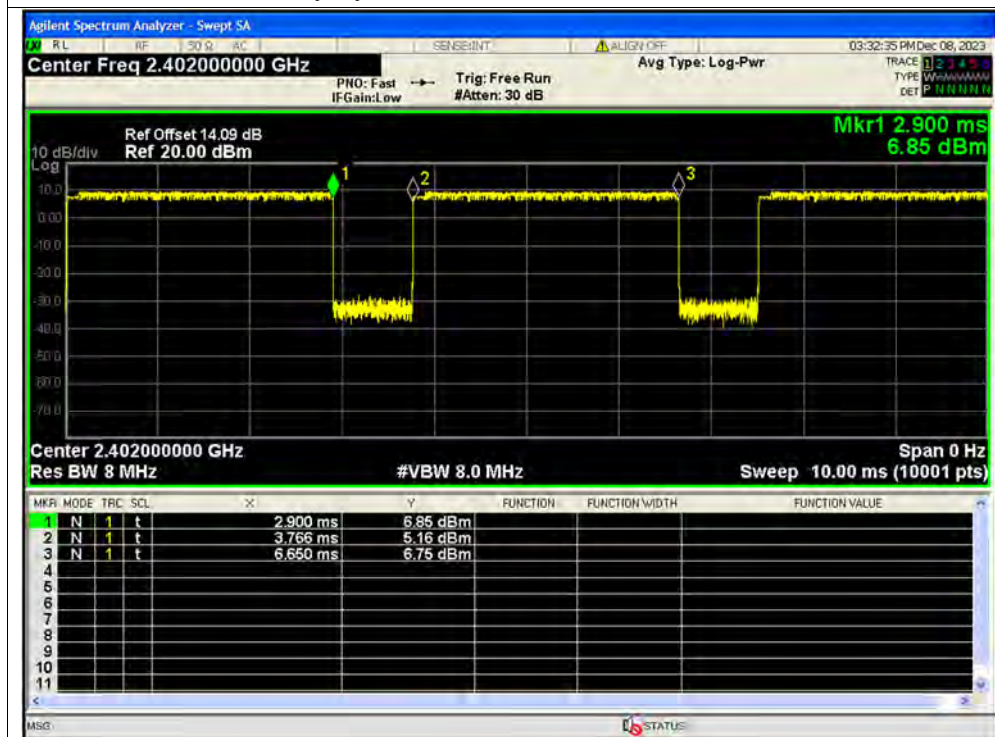
Duty Cycle NVNT 1-DH5 2441MHz Ant1



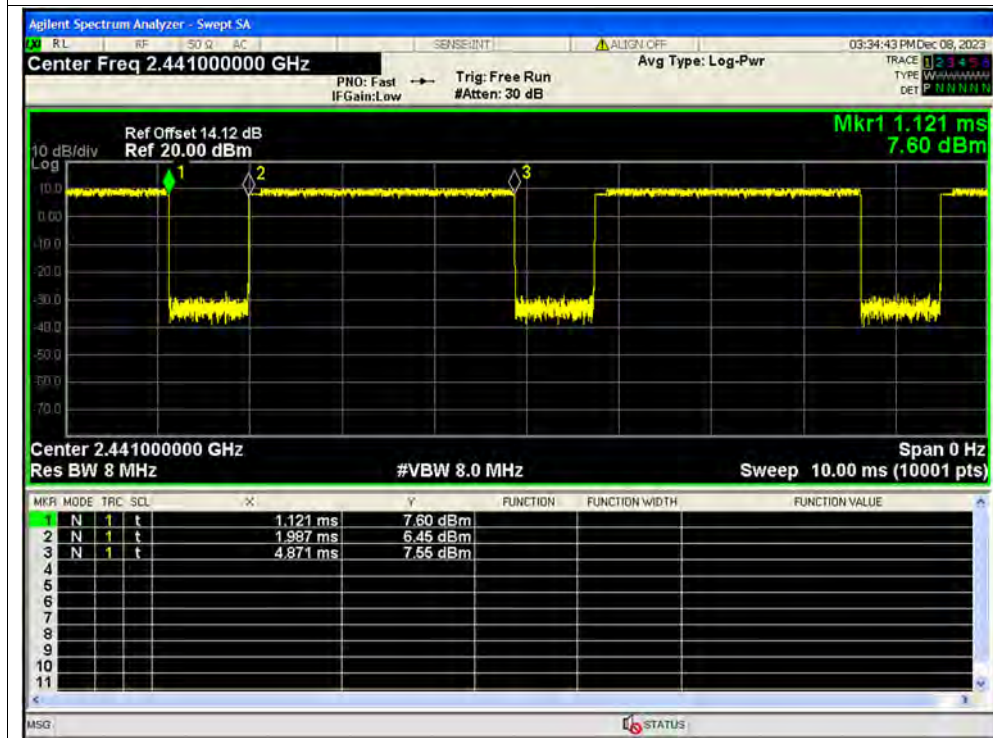
Duty Cycle NVNT 1-DH5 2480MHz Ant1



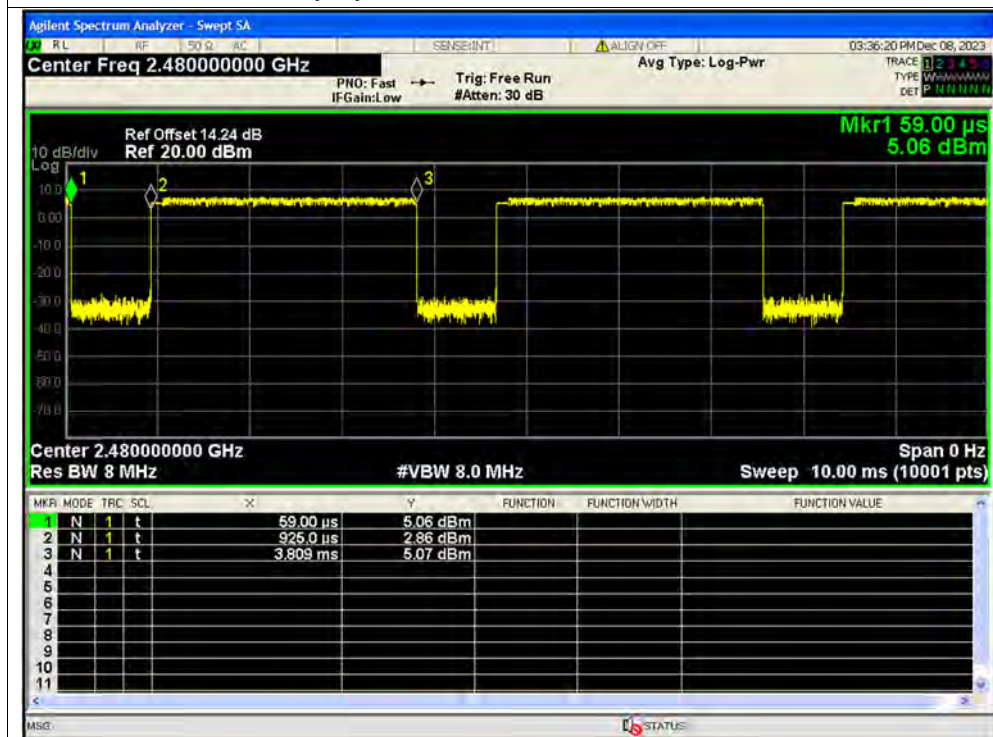
Duty Cycle NVNT 2-DH5 2402MHz Ant1



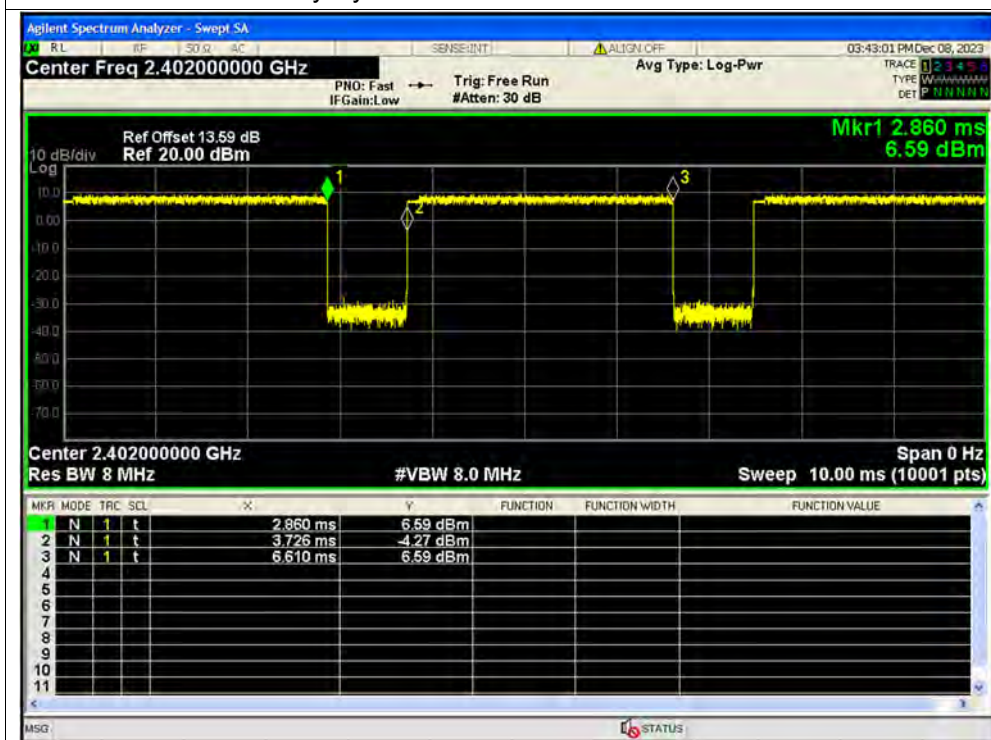
Duty Cycle NVNT 2-DH5 2441MHz Ant1



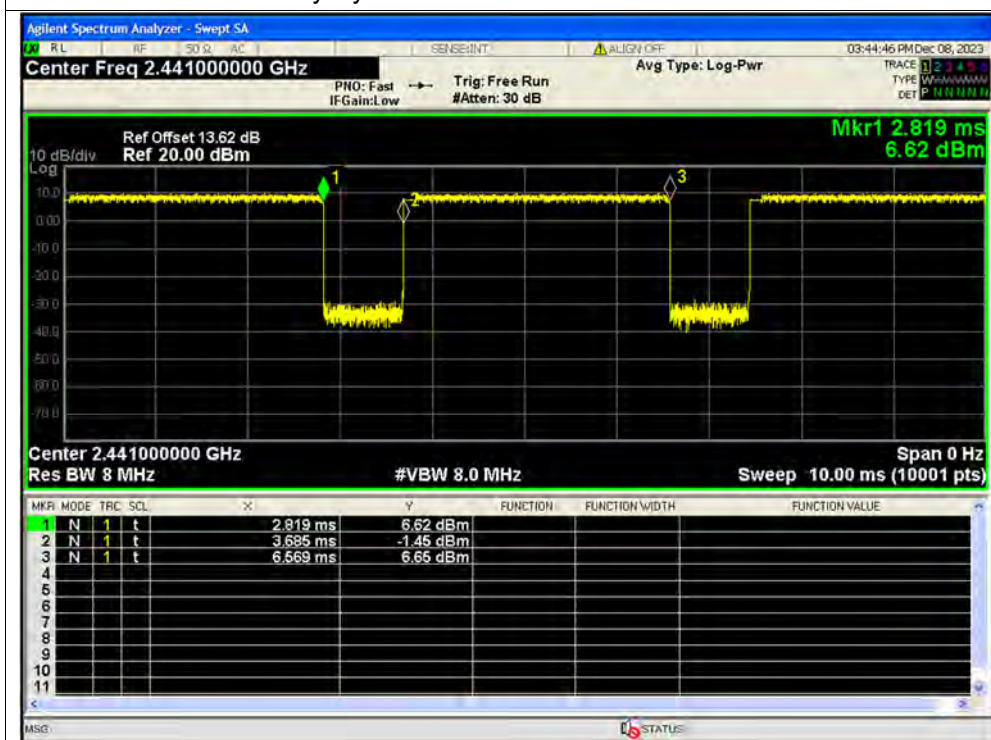
Duty Cycle NVNT 2-DH5 2480MHz Ant1



Duty Cycle NVNT 3-DH5 2402MHz Ant1

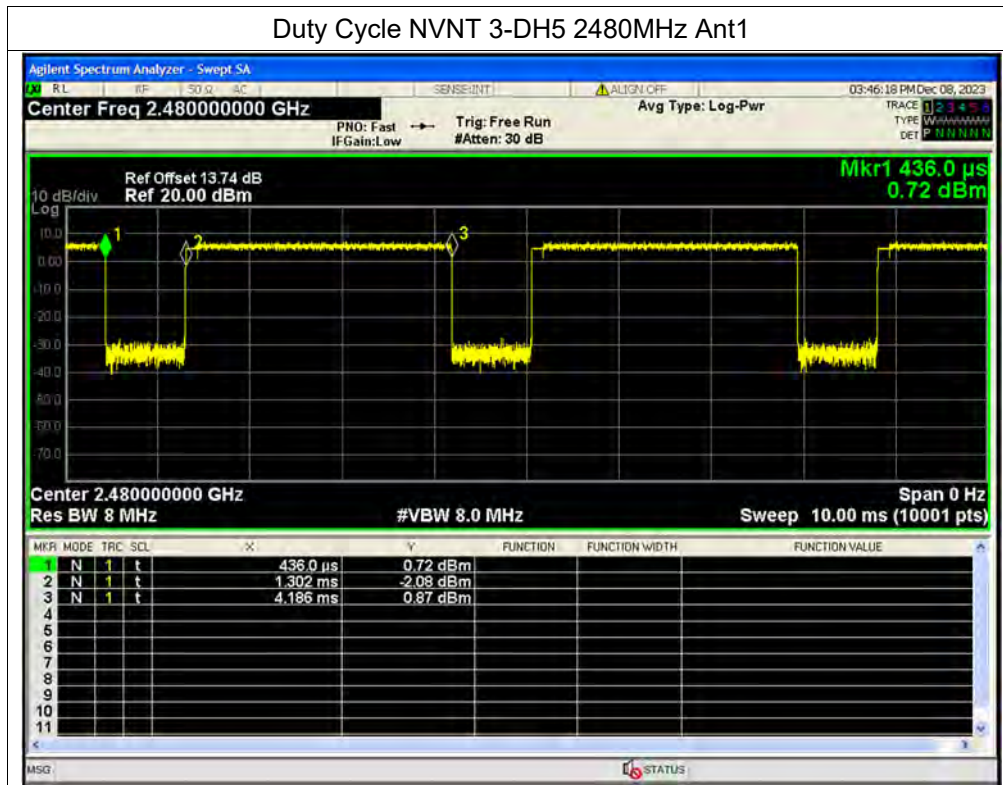


Duty Cycle NVNT 3-DH5 2441MHz Ant1





Duty Cycle NVNT 3-DH5 2480MHz Ant1



**A.3. Maximum Peak Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	8.37	0	8.37	0.00687	30	Pass
NVNT	1-DH5	2441	Ant1	8.82	0	8.82	0.00762	30	Pass
NVNT	1-DH5	2480	Ant1	6.73	0	6.73	0.00471	30	Pass
NVNT	2-DH5	2402	Ant1	8.82	0	8.82	0.00762	30	Pass
NVNT	2-DH5	2441	Ant1	9.25	0	9.25	0.00841	30	Pass
NVNT	2-DH5	2480	Ant1	6.49	0	6.49	0.00446	30	Pass
NVNT	3-DH5	2402	Ant1	9.15	0	9.15	0.00822	30	Pass
NVNT	3-DH5	2441	Ant1	9.68	0	9.68	0.00929	30	Pass
NVNT	3-DH5	2480	Ant1	6.83	0	6.83	0.00482	30	Pass

Test Graphs

Peak Power NVNT 1-DH5 2402MHz Ant1



Peak Power NVNT 1-DH5 2441MHz Ant1



Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1



Peak Power NVNT 2-DH5 2441MHz Ant1



Peak Power NVNT 2-DH5 2480MHz Ant1



Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1





Peak Power NVNT 3-DH5 2480MHz Ant1



**A.4. Maximum Average Conducted Output Power**

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	6.96	1.12	8.08	0.00643	30	Pass
NVNT	1-DH5	2441	Ant1	7.51	1.12	8.63	0.00729	30	Pass
NVNT	1-DH5	2480	Ant1	5.15	1.12	6.27	0.00424	30	Pass
NVNT	2-DH5	2402	Ant1	4.83	1.14	5.97	0.00395	30	Pass
NVNT	2-DH5	2441	Ant1	5.56	1.14	6.70	0.00468	30	Pass
NVNT	2-DH5	2480	Ant1	2.84	1.14	3.98	0.0025	30	Pass
NVNT	3-DH5	2402	Ant1	4.78	1.14	5.92	0.00391	30	Pass
NVNT	3-DH5	2441	Ant1	5.57	1.14	6.71	0.00469	30	Pass
NVNT	3-DH5	2480	Ant1	2.78	1.14	3.92	0.00247	30	Pass

Test Graphs

Average Power NVNT 1-DH5 2402MHz Ant1



Average Power NVNT 1-DH5 2441MHz Ant1



Average Power NVNT 1-DH5 2480MHz Ant1



Average Power NVNT 2-DH5 2402MHz Ant1



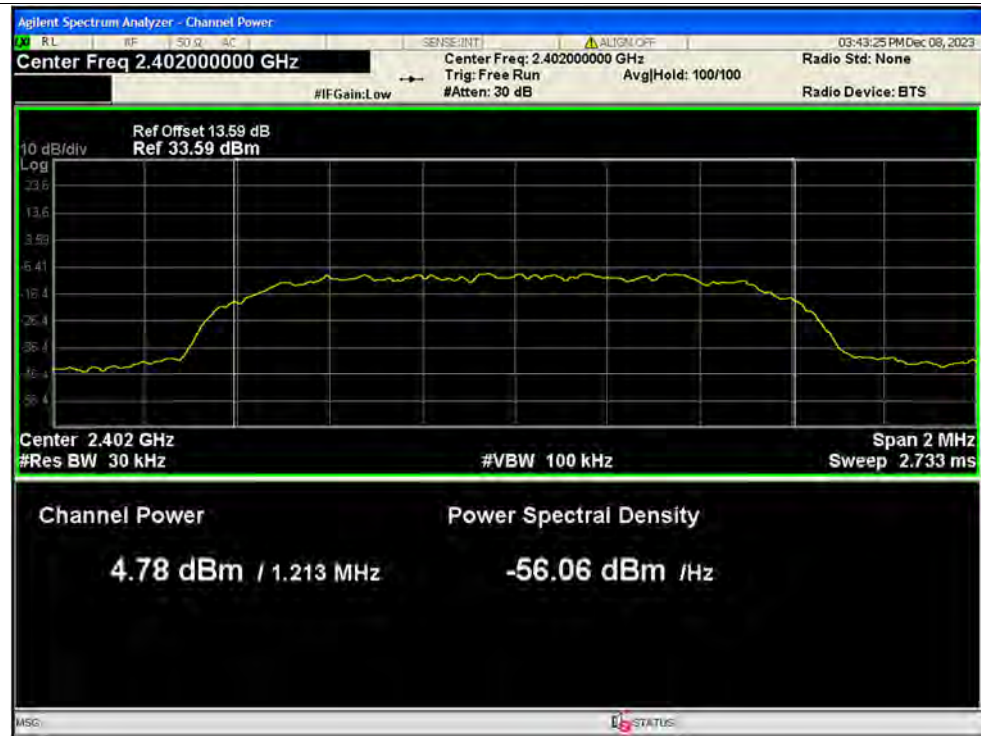
Average Power NVNT 2-DH5 2441MHz Ant1



Average Power NVNT 2-DH5 2480MHz Ant1



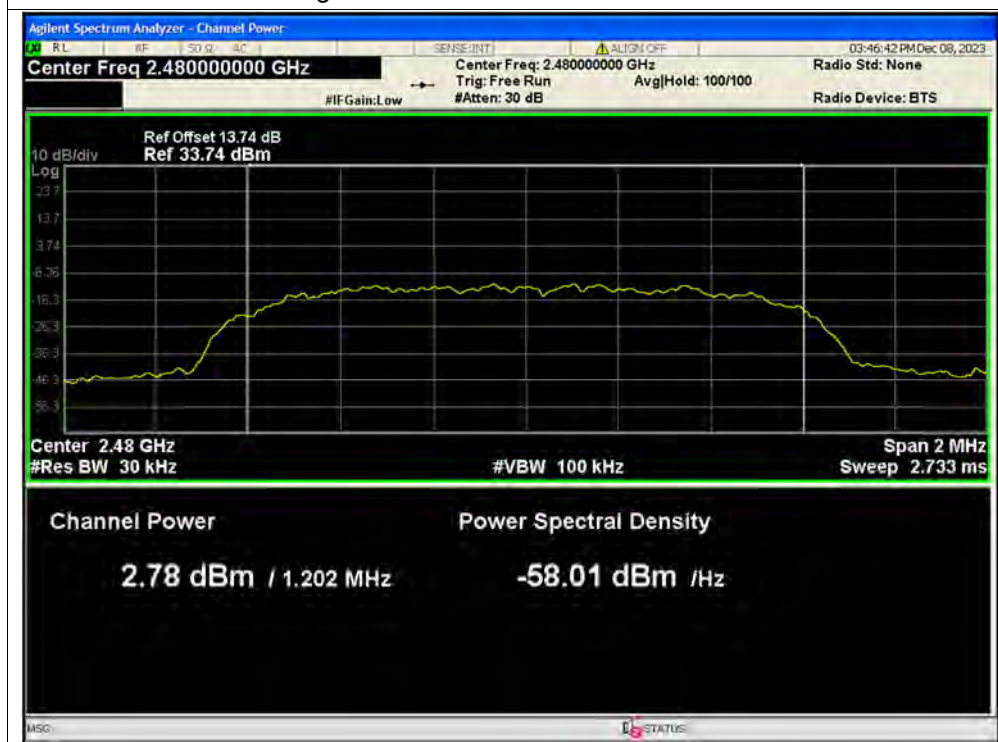
Average Power NVNT 3-DH5 2402MHz Ant1



Average Power NVNT 3-DH5 2441MHz Ant1



Average Power NVNT 3-DH5 2480MHz Ant1



**A.5. 20 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)
NVNT	1-DH5	2402	Ant1	0.951
NVNT	1-DH5	2441	Ant1	0.948
NVNT	1-DH5	2480	Ant1	0.939
NVNT	2-DH5	2402	Ant1	1.308
NVNT	2-DH5	2441	Ant1	1.326
NVNT	2-DH5	2480	Ant1	1.283
NVNT	3-DH5	2402	Ant1	1.293
NVNT	3-DH5	2441	Ant1	1.292
NVNT	3-DH5	2480	Ant1	1.291



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



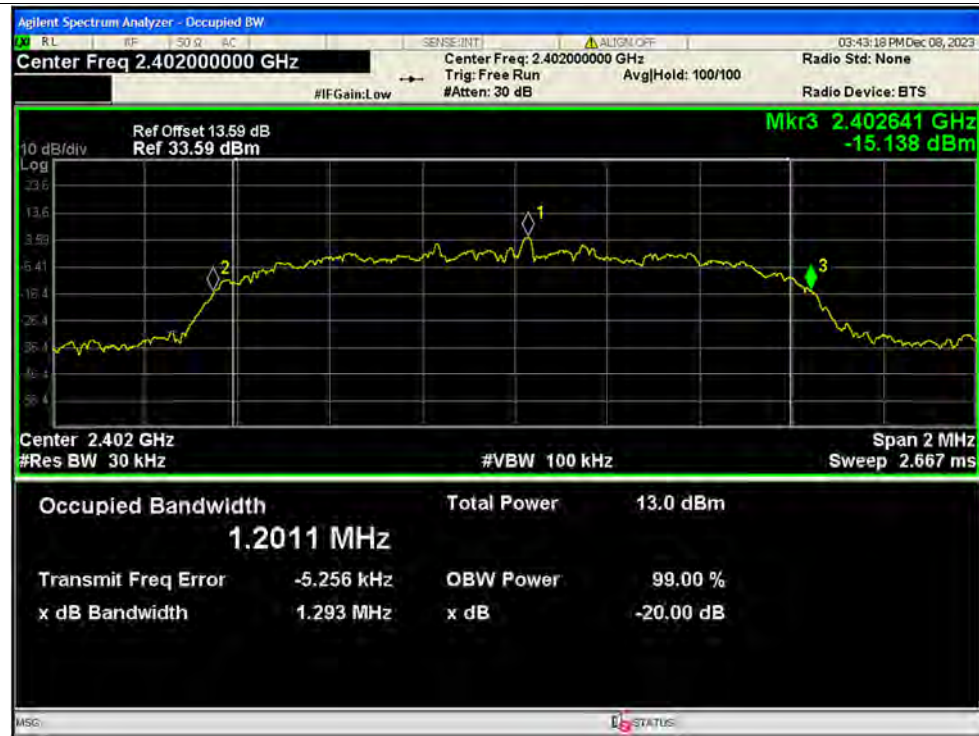
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



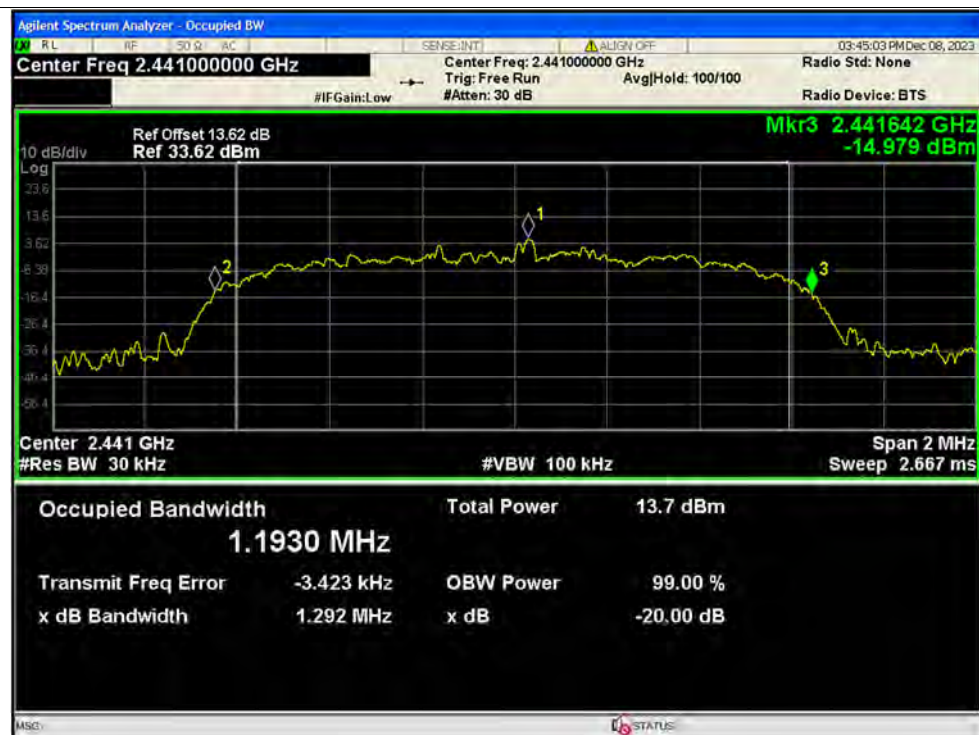
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





A.6. Carried Frequency Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.834	2402.844	1.010	0.634	Pass
NVNT	2-DH5	Ant1	2402.038	2403.022	0.984	0.872	Pass
NVNT	3-DH5	Ant1	2402.160	2403.162	1.002	0.862	Pass

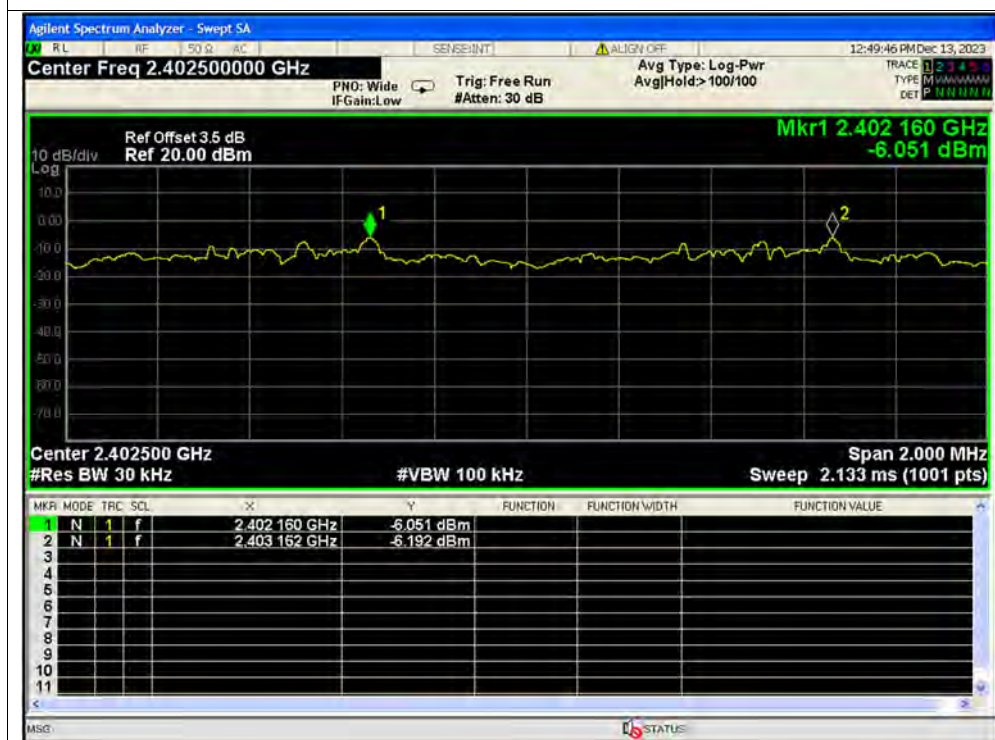




CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

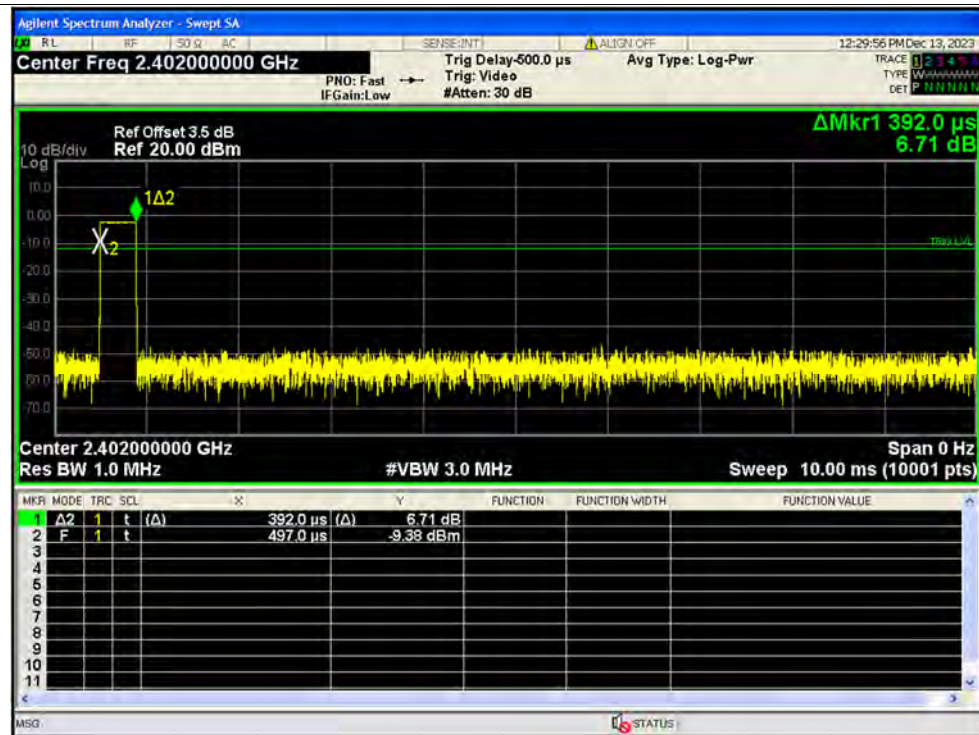


**A.7. Time of Occupancy (Dwell time)**

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2402	Ant1	0.392	124.656	318	31600	400	Pass
NVNT	1-DH3	2402	Ant1	1.647	261.873	159	31600	400	Pass
NVNT	1-DH5	2402	Ant1	2.896	263.536	91	31600	400	Pass
NVNT	2-DH1	2402	Ant1	0.384	122.88	320	31600	400	Pass
NVNT	2-DH3	2402	Ant1	1.636	261.76	160	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.885	300.04	104	31600	400	Pass
NVNT	3-DH1	2402	Ant1	0.382	121.858	319	31600	400	Pass
NVNT	3-DH3	2402	Ant1	1.632	248.064	152	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.883	276.768	96	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2402MHz Ant1 One Burst

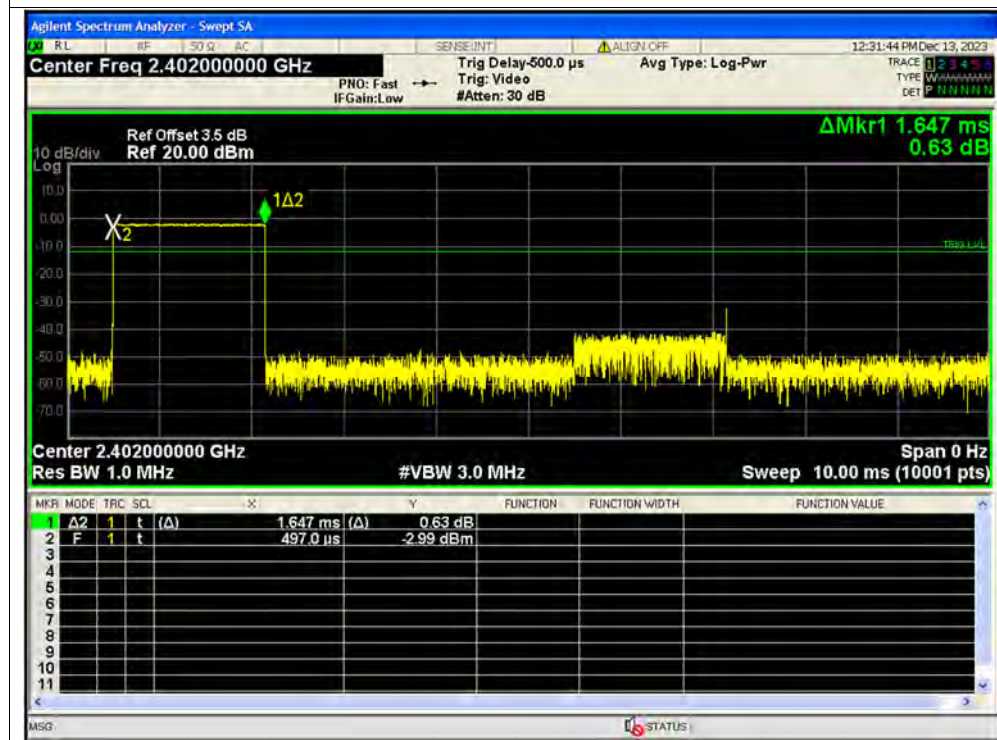


Dwell NVNT 1-DH1 2402MHz Ant1 Accumulated

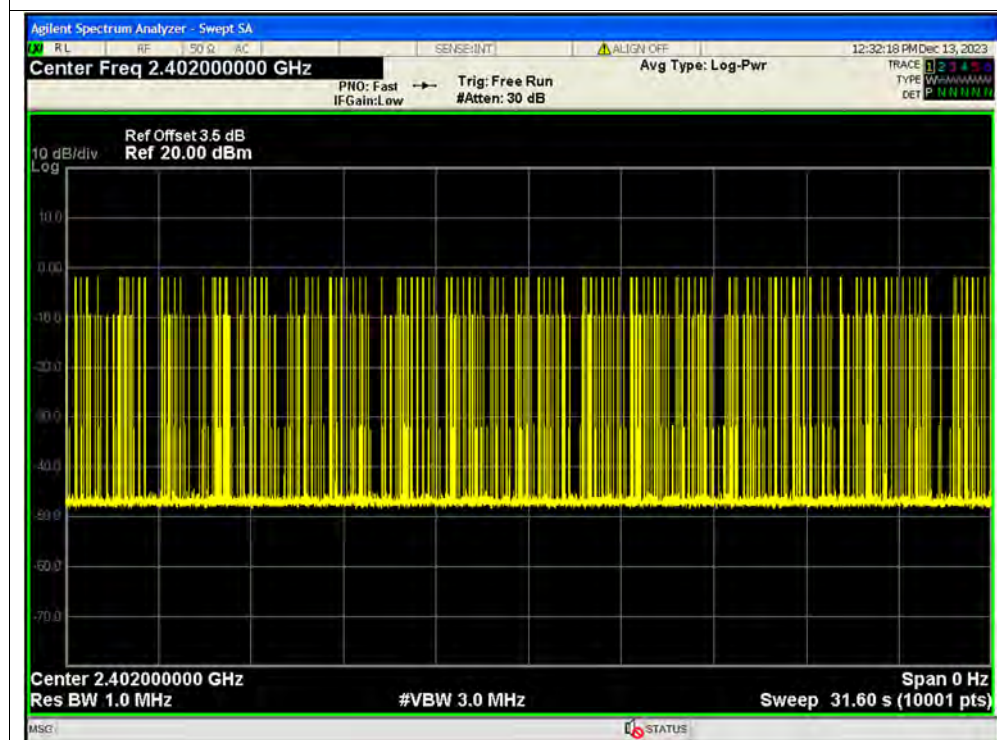


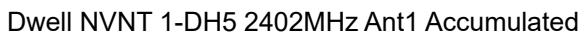


Dwell NVNT 1-DH3 2402MHz Ant1 One Burst



Dwell NVNT 1-DH3 2402MHz Ant1 Accumulated





Shenzhen Morlab Communications Technology Co., Ltd.
FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

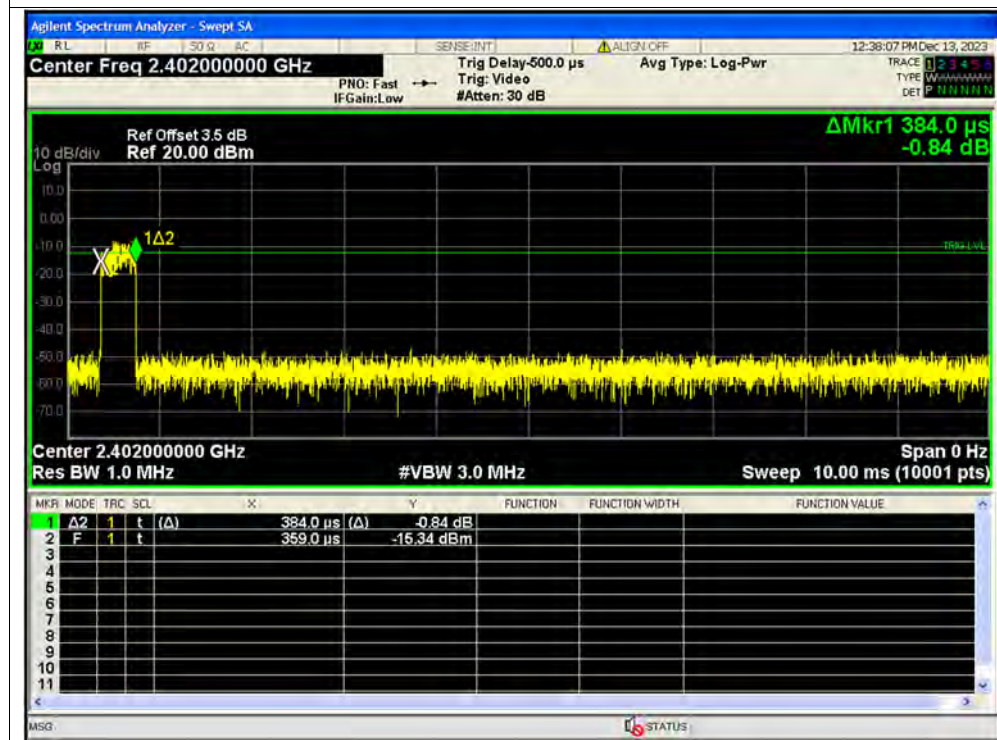
Fax: 86-755-36698525

[Http://www.morlab.cn](http://www.morlab.cn)

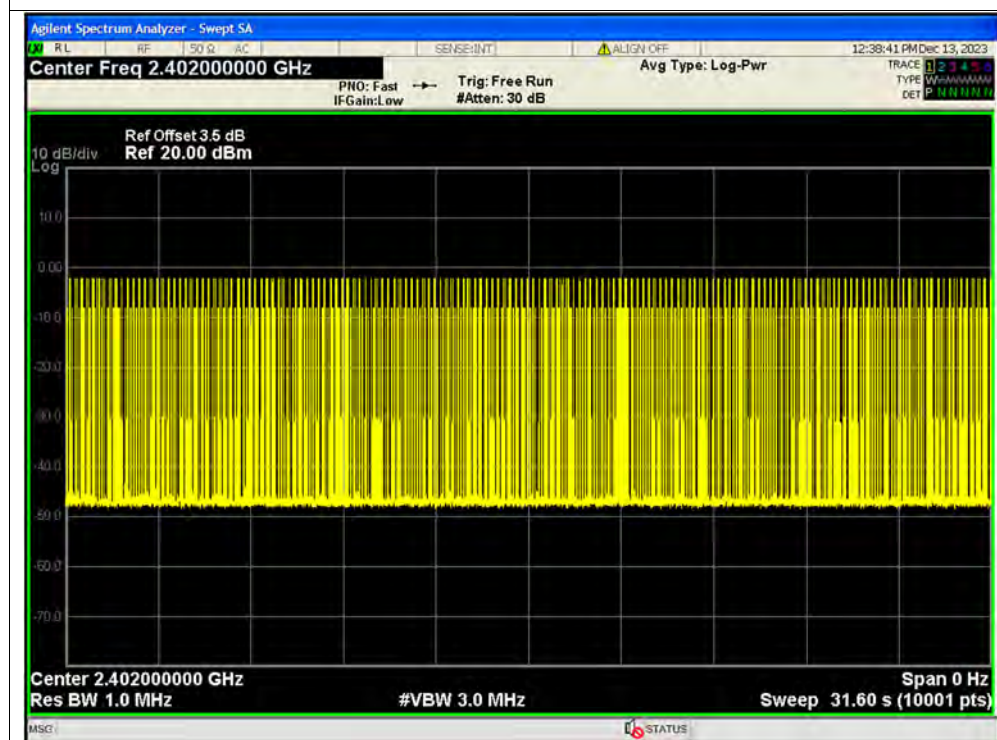
E-mail: service@morlab.cn



Dwell NVNT 2-DH1 2402MHz Ant1 One Burst

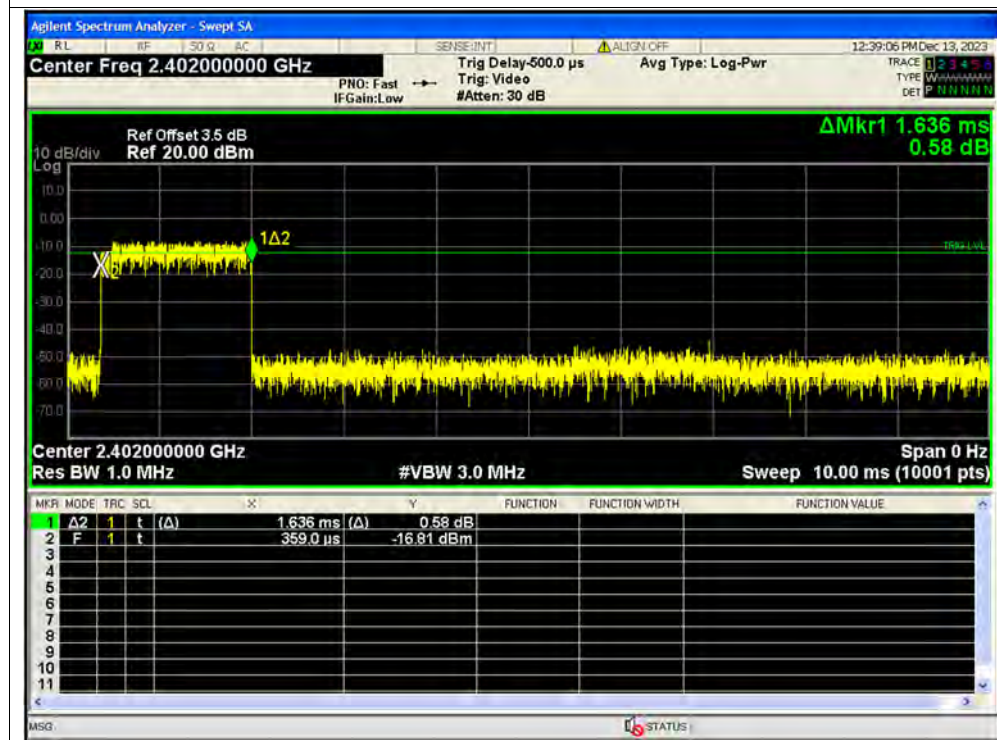


Dwell NVNT 2-DH1 2402MHz Ant1 Accumulated

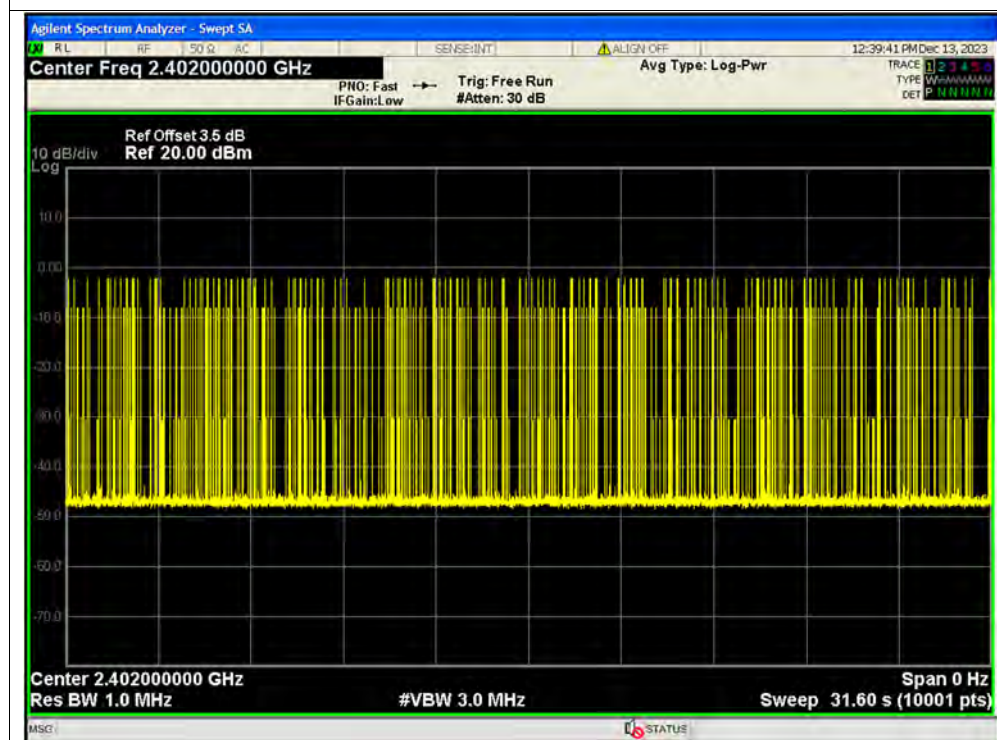




Dwell NVNT 2-DH3 2402MHz Ant1 One Burst

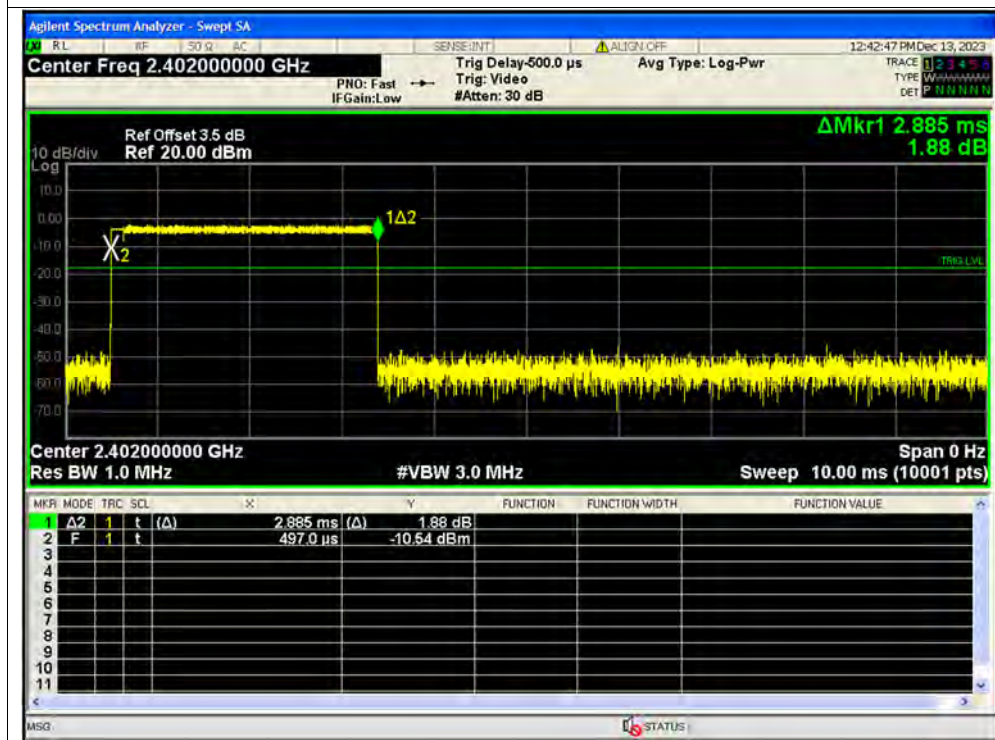


Dwell NVNT 2-DH3 2402MHz Ant1 Accumulated





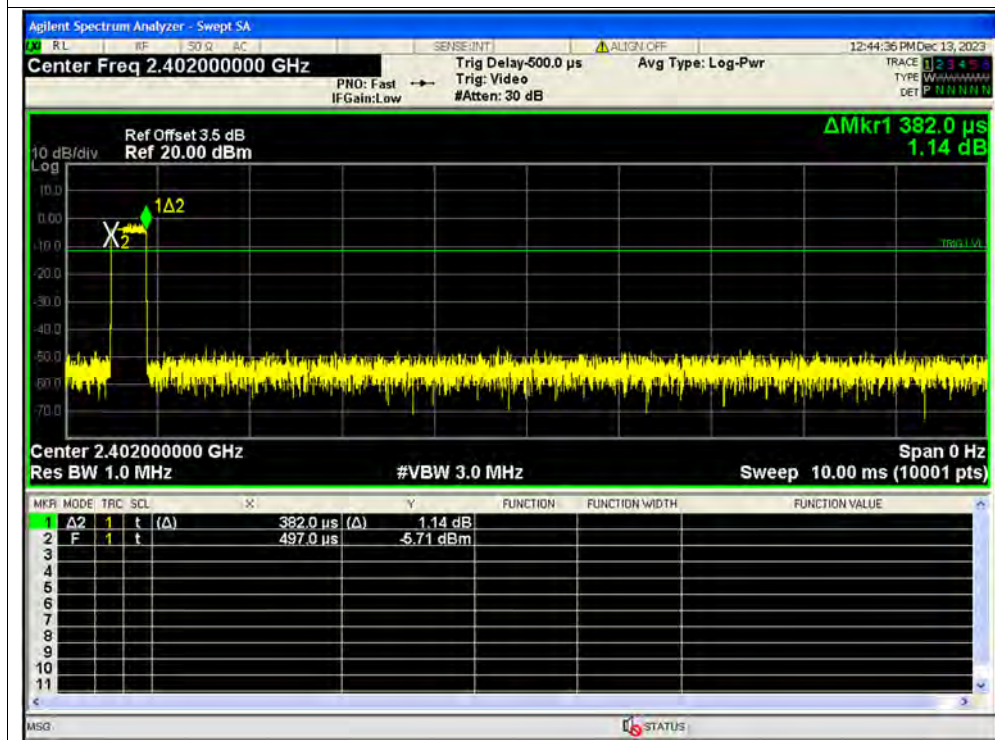
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



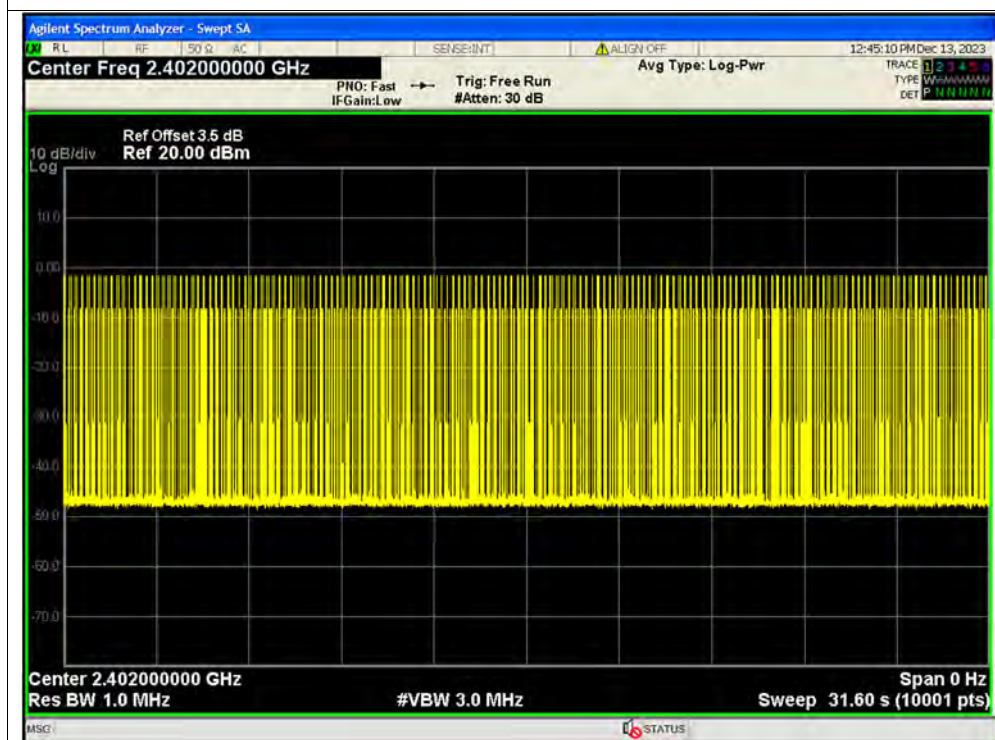
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH1 2402MHz Ant1 One Burst

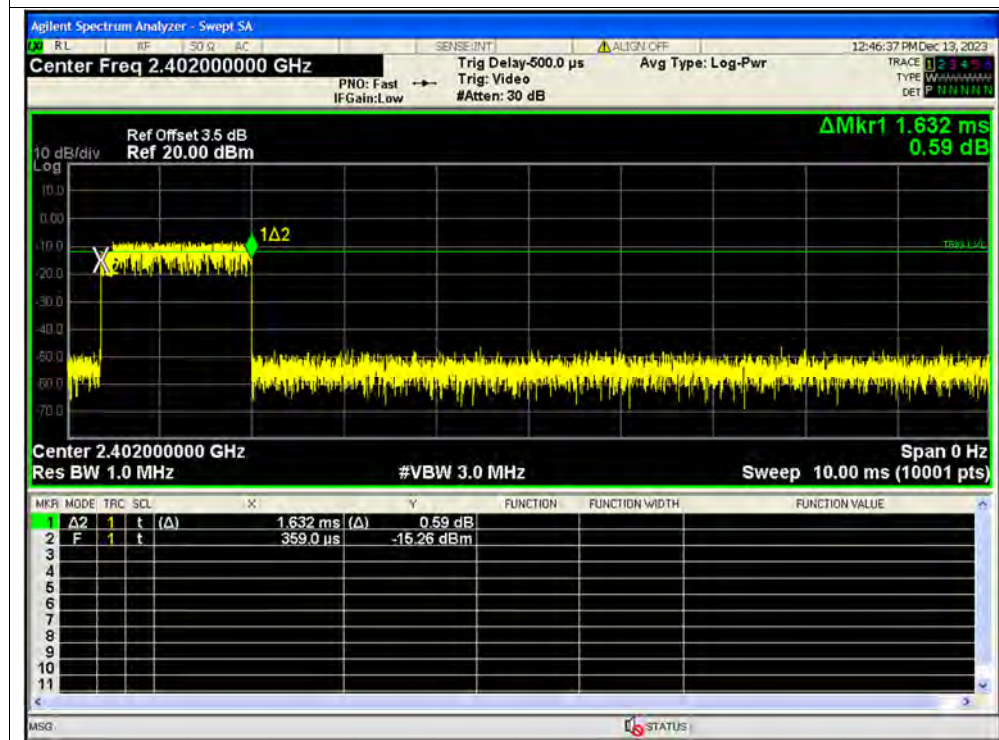


Dwell NVNT 3-DH1 2402MHz Ant1 Accumulated

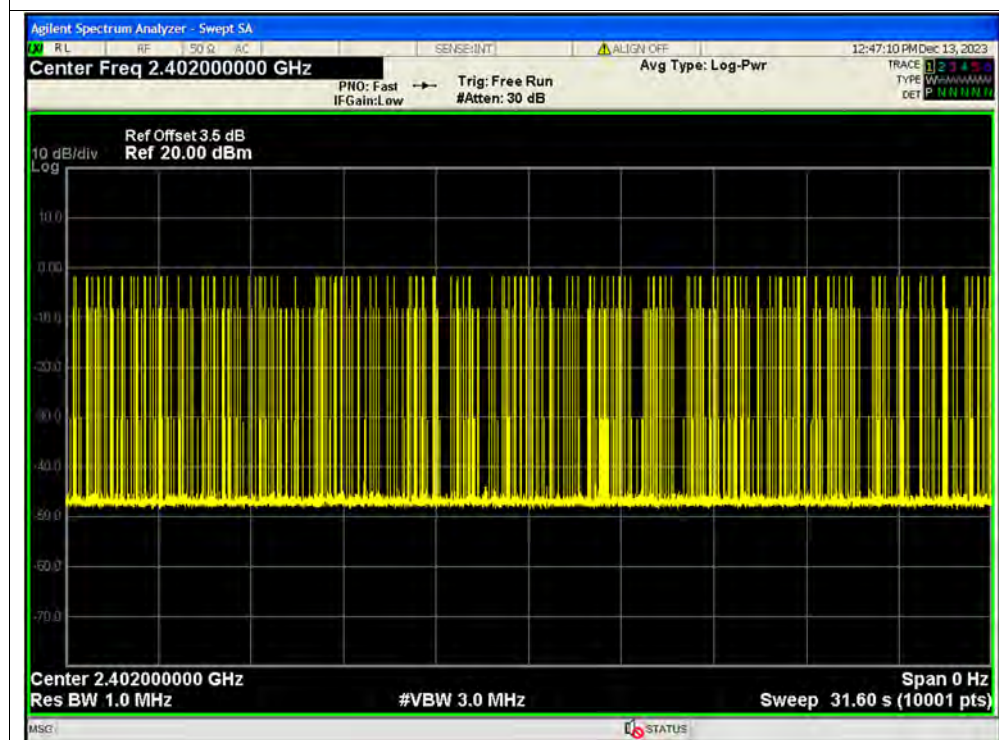




Dwell NVNT 3-DH3 2402MHz Ant1 One Burst

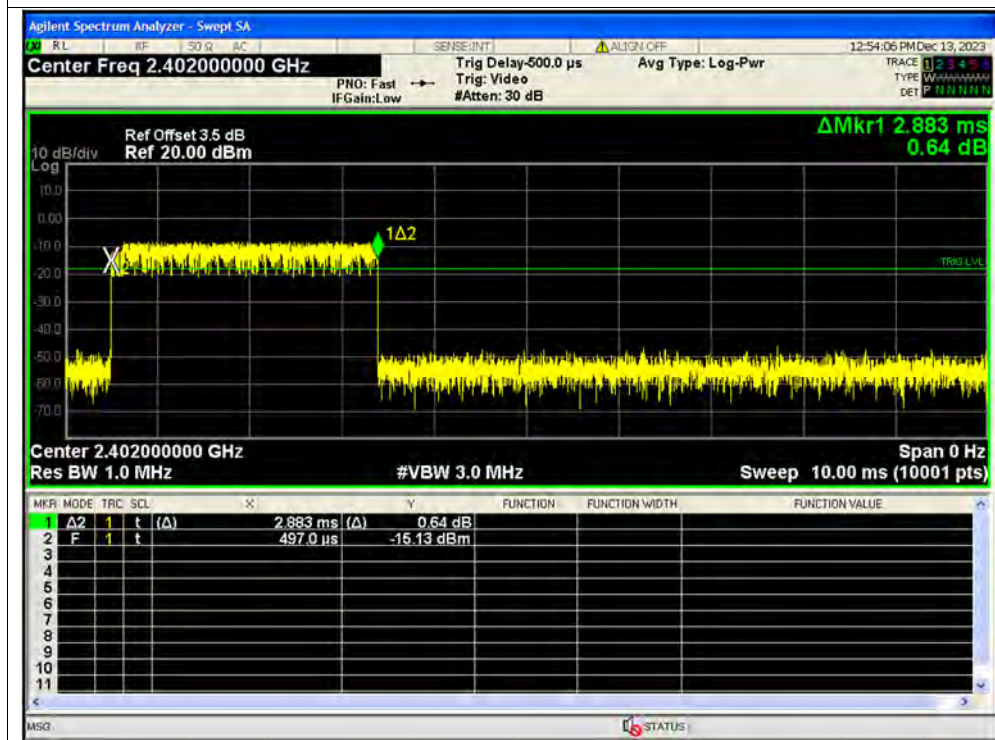


Dwell NVNT 3-DH3 2402MHz Ant1 Accumulated





Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated



**A.8. Conducted Spurious Emissions**

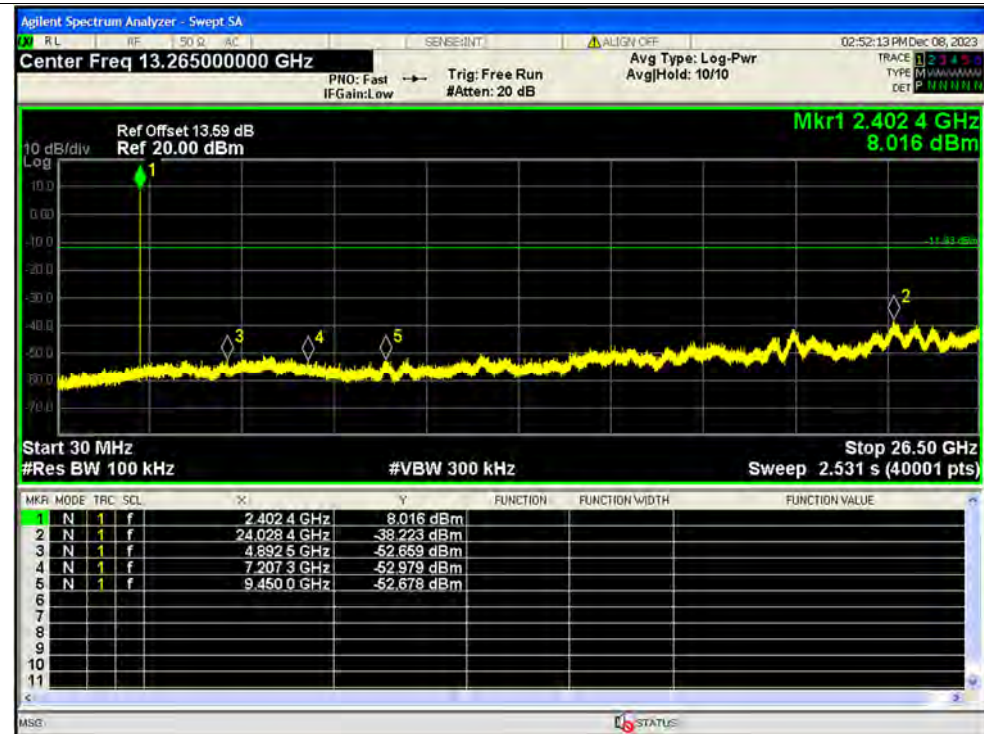
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-46.29	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.07	-20	Pass
NVNT	1-DH5	2480	Ant1	-44.26	-20	Pass
NVNT	2-DH5	2402	Ant1	-45.59	-20	Pass
NVNT	2-DH5	2441	Ant1	-45.92	-20	Pass
NVNT	2-DH5	2480	Ant1	-43.06	-20	Pass
NVNT	3-DH5	2402	Ant1	-44.72	-20	Pass
NVNT	3-DH5	2441	Ant1	-45.84	-20	Pass
NVNT	3-DH5	2480	Ant1	-42.30	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



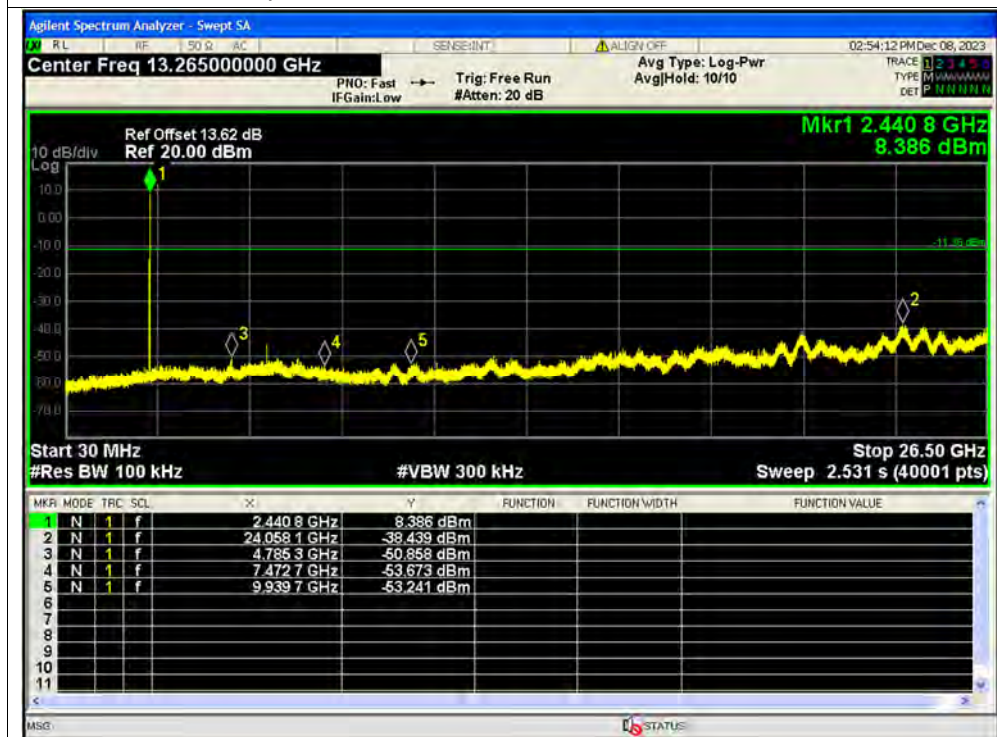
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



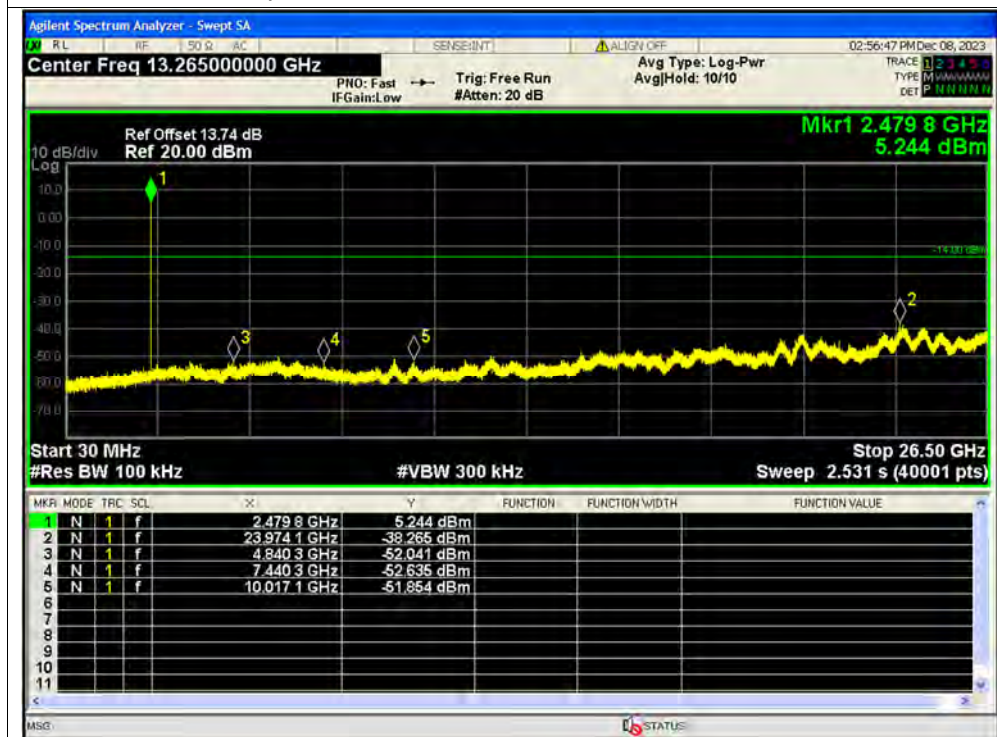
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



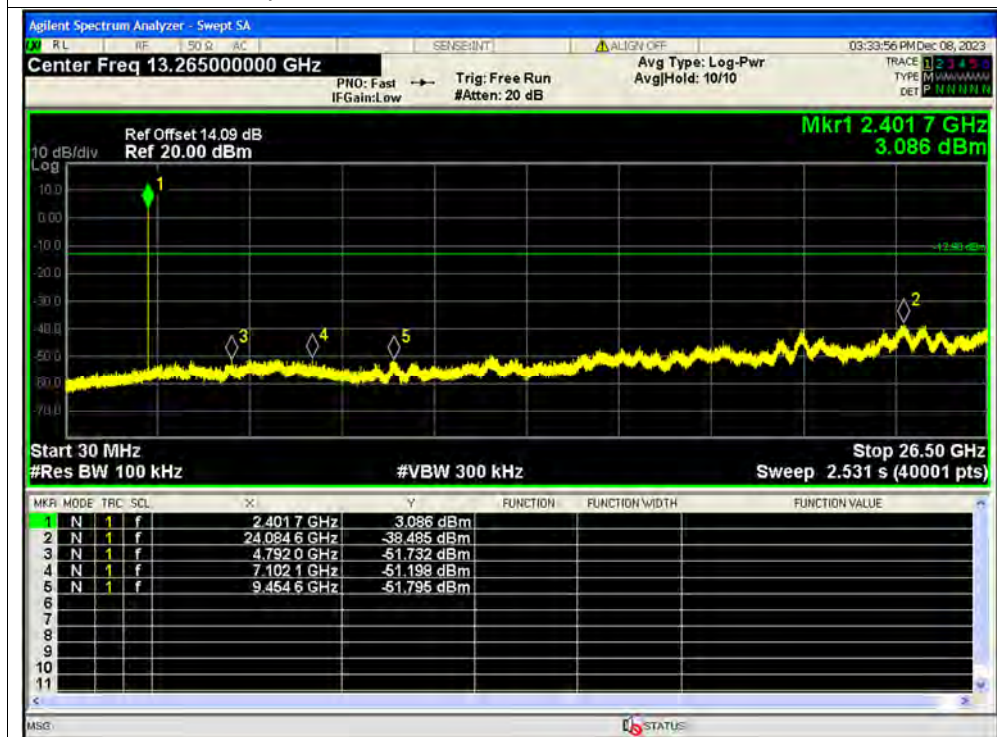
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



**A.9. Band Edge**

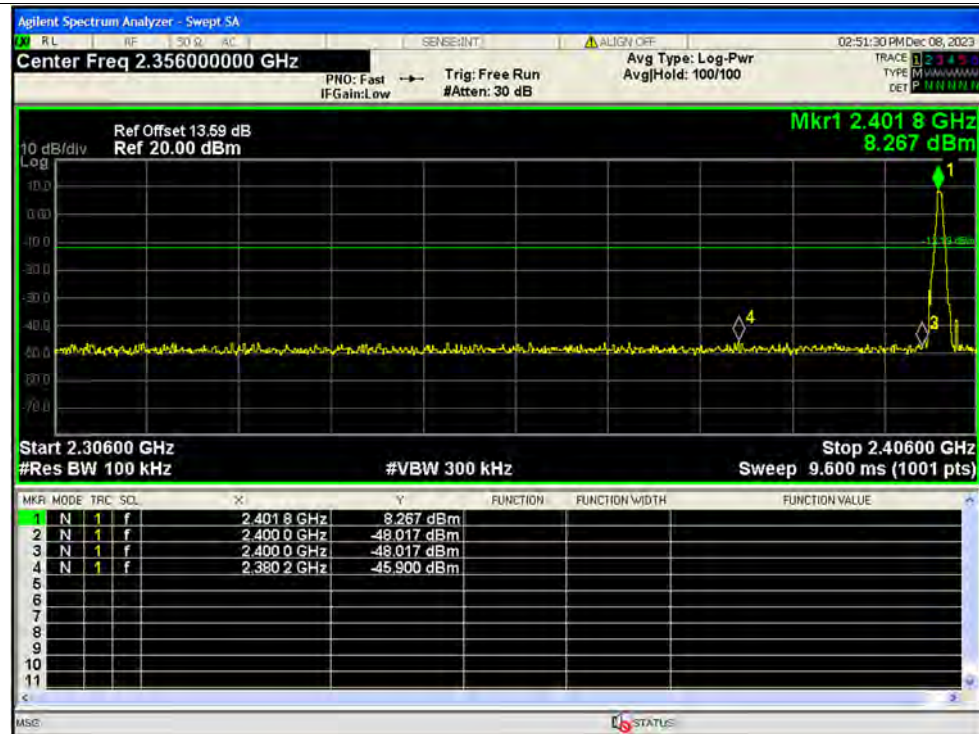
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-53.70	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-52.18	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.77	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-49.39	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.74	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.20	-20	Pass
NVNT	1-DH5	2402	Ant1	Hopping	-52.07	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.10	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.09	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-47.54	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.13	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-49.13	-20	Pass

Test Graphs

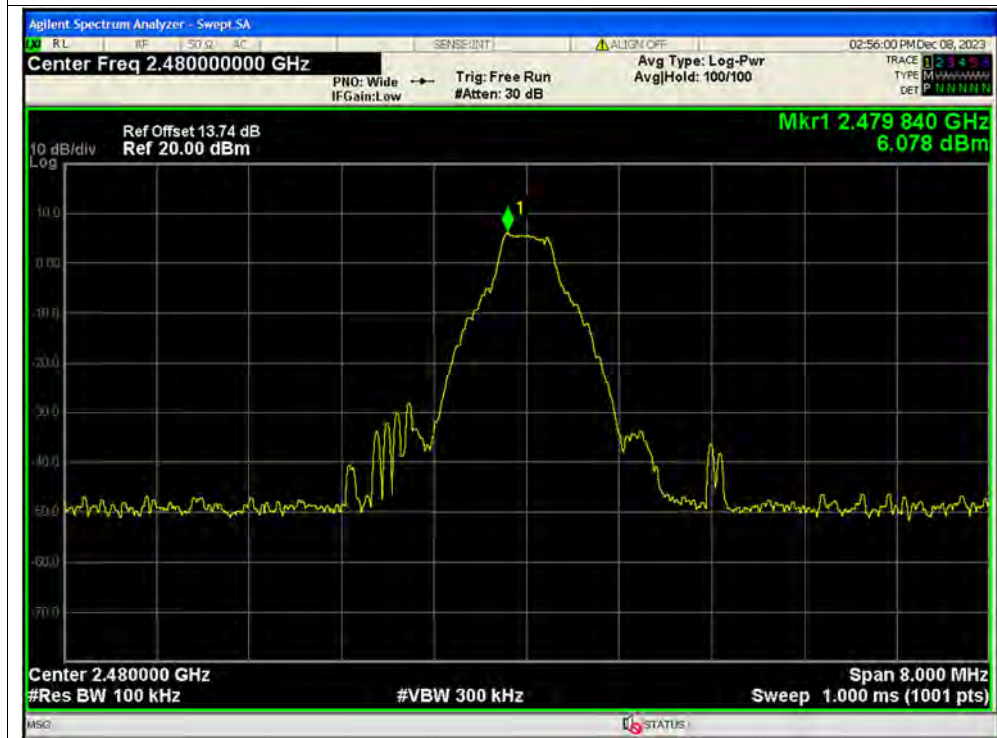
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



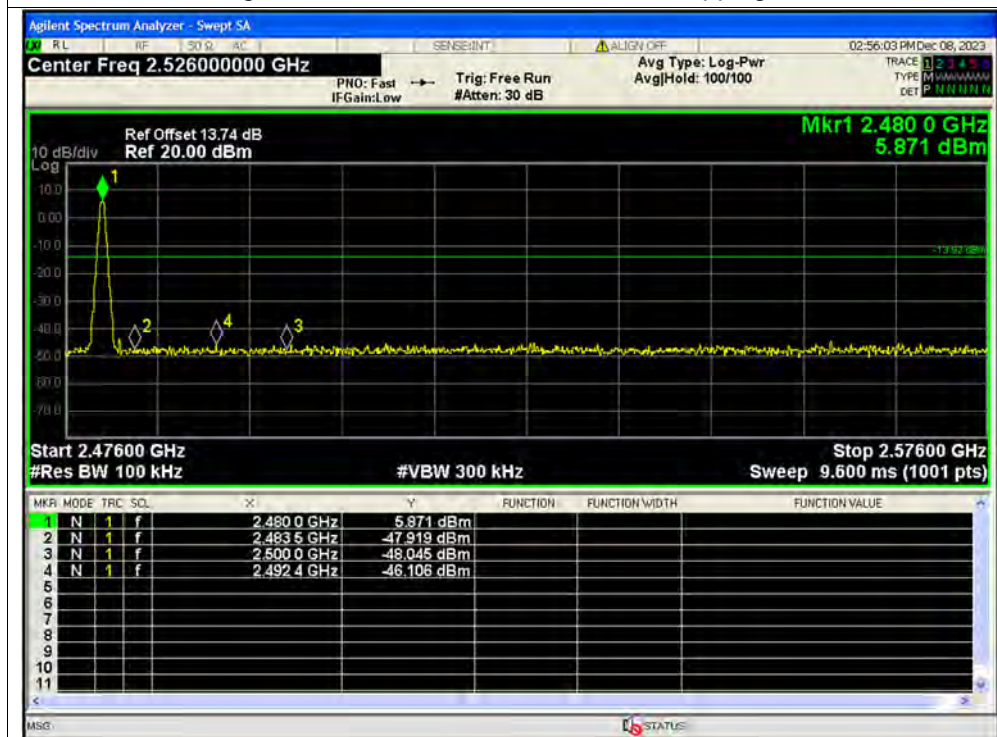
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



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



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

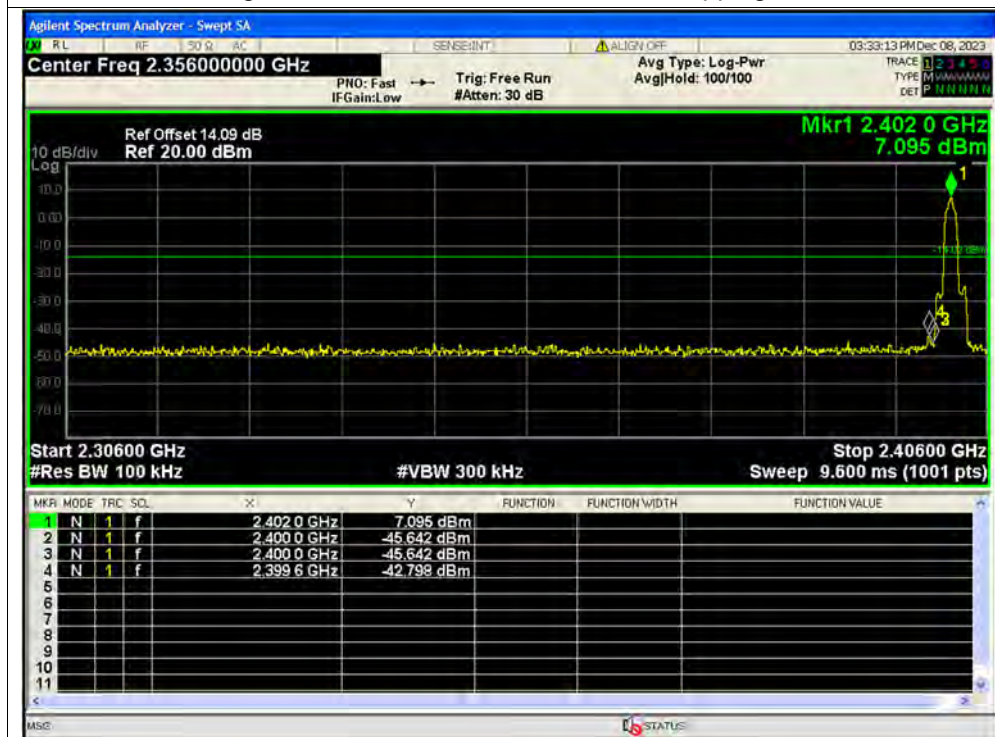




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



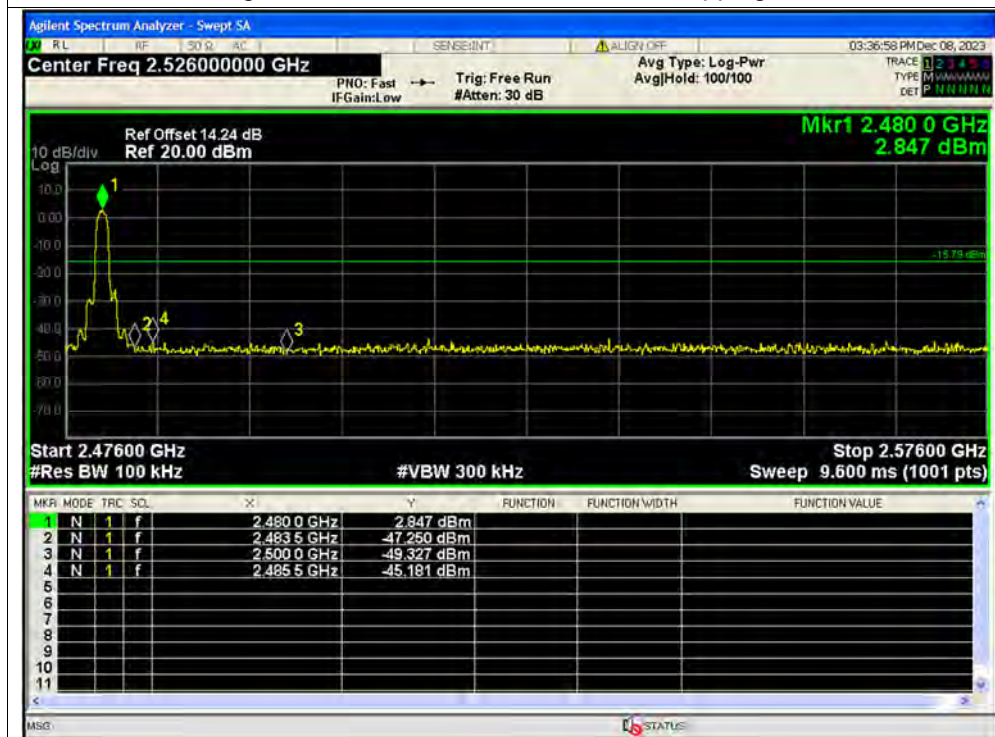
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



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



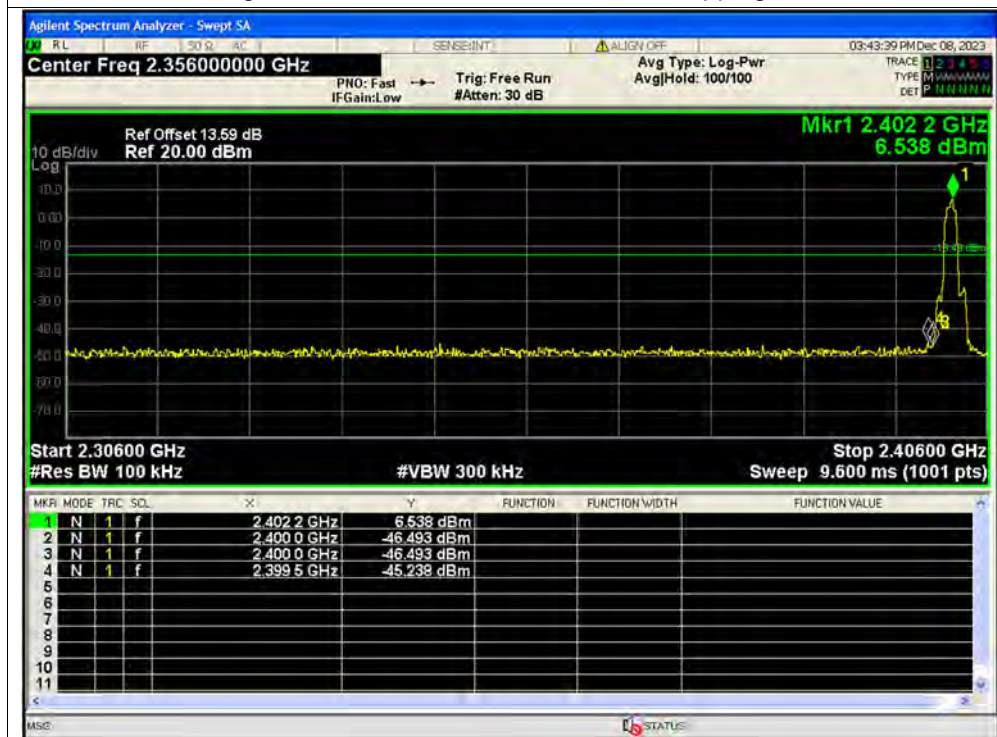
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



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



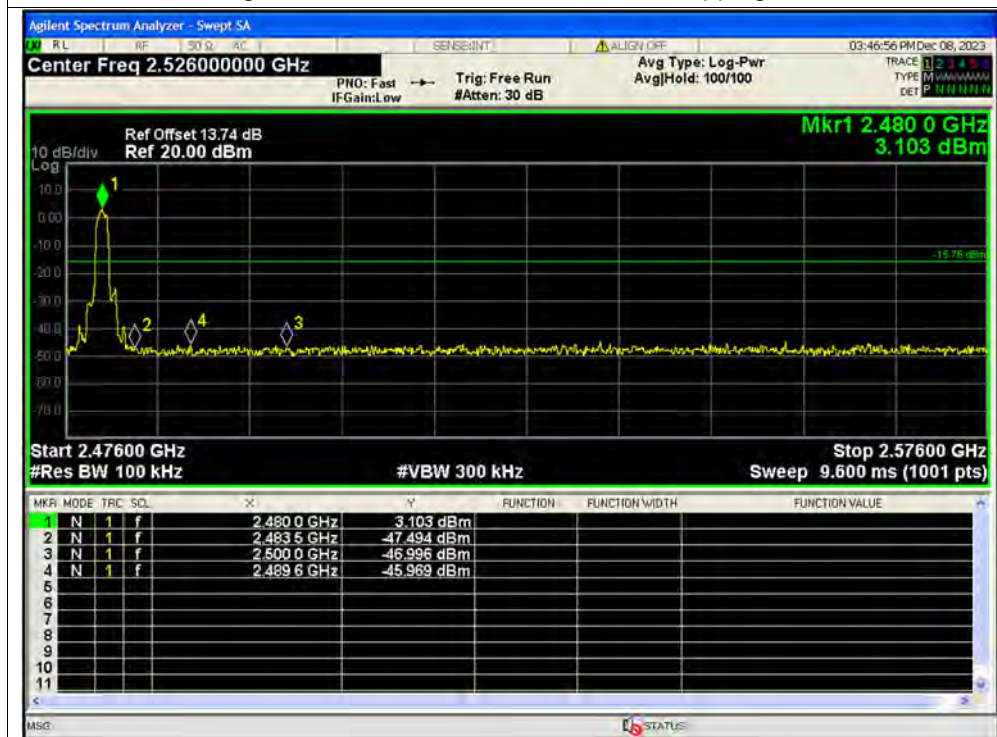
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

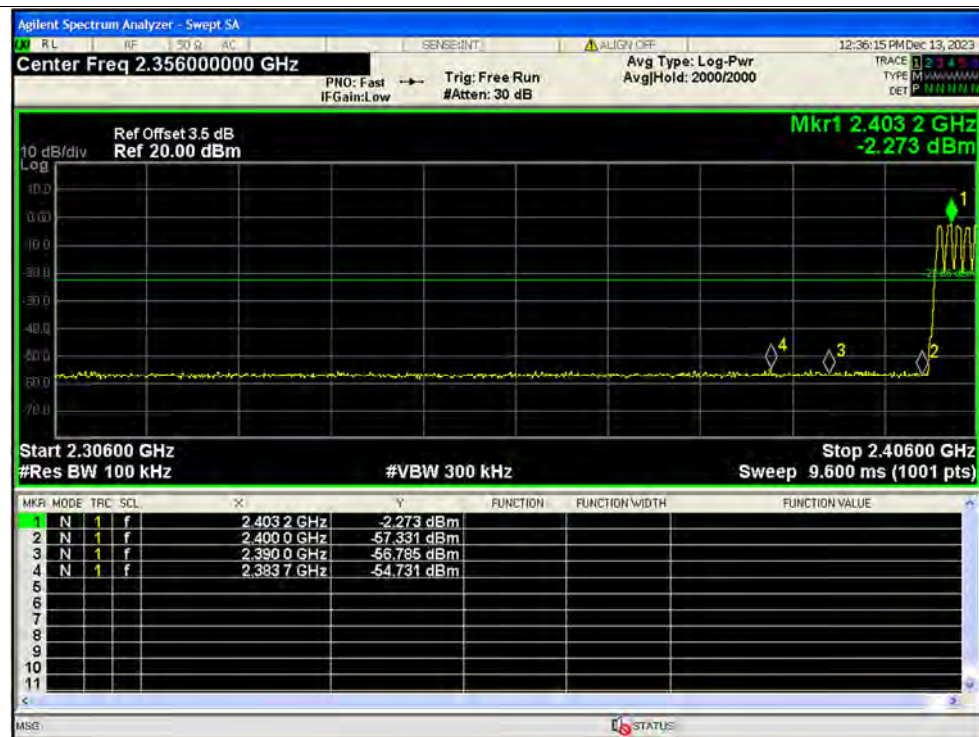


Test Graphs

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



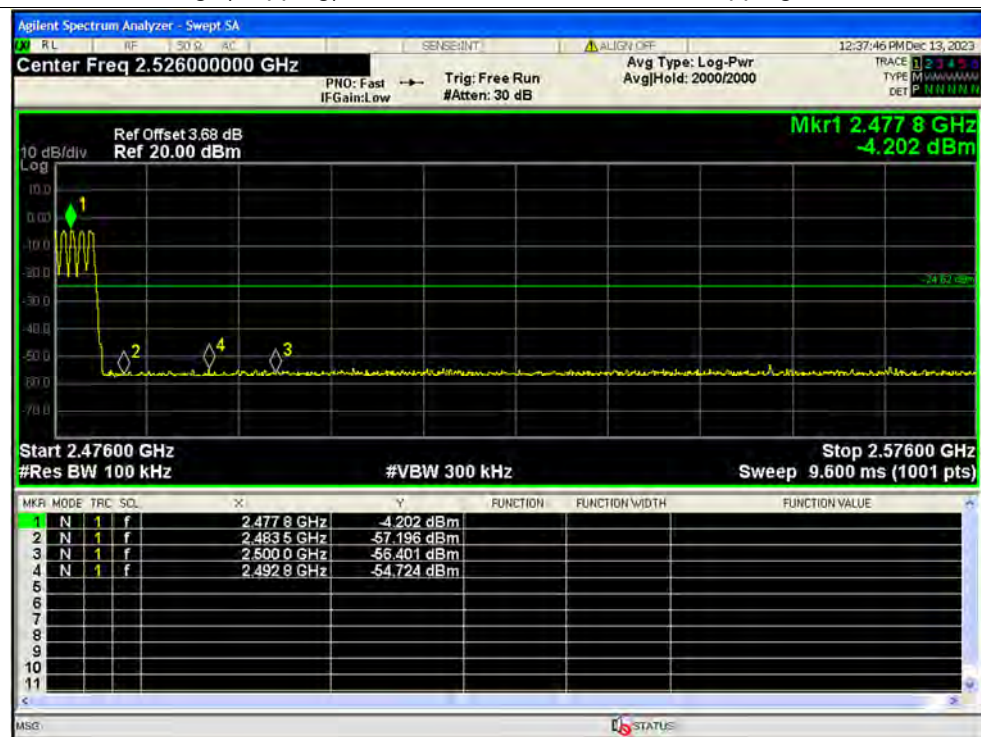
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



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



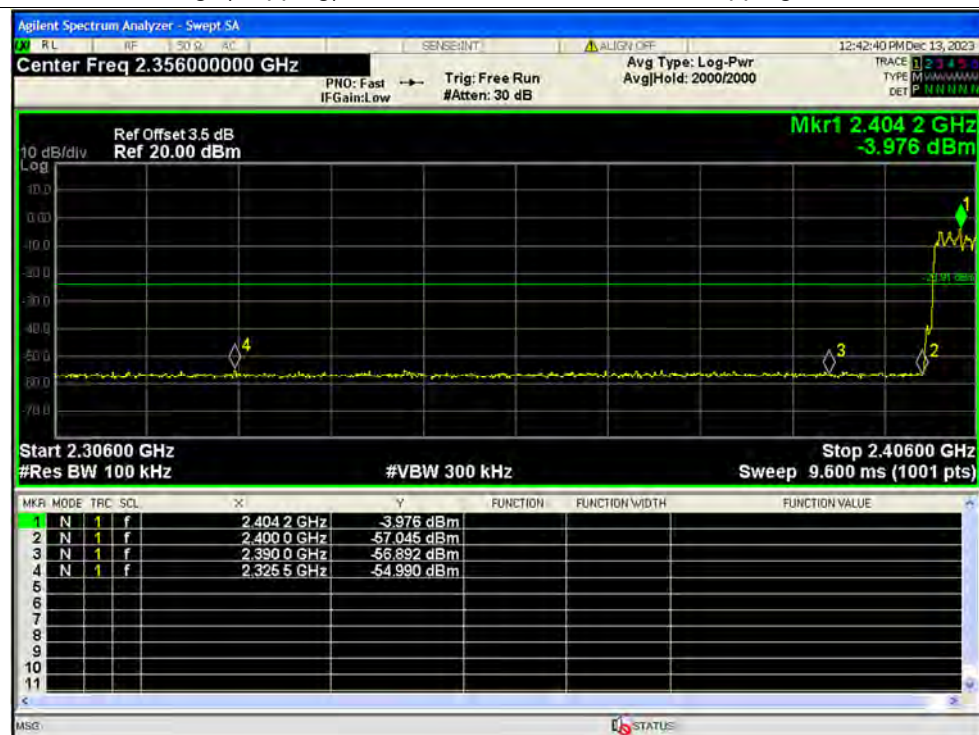
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



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



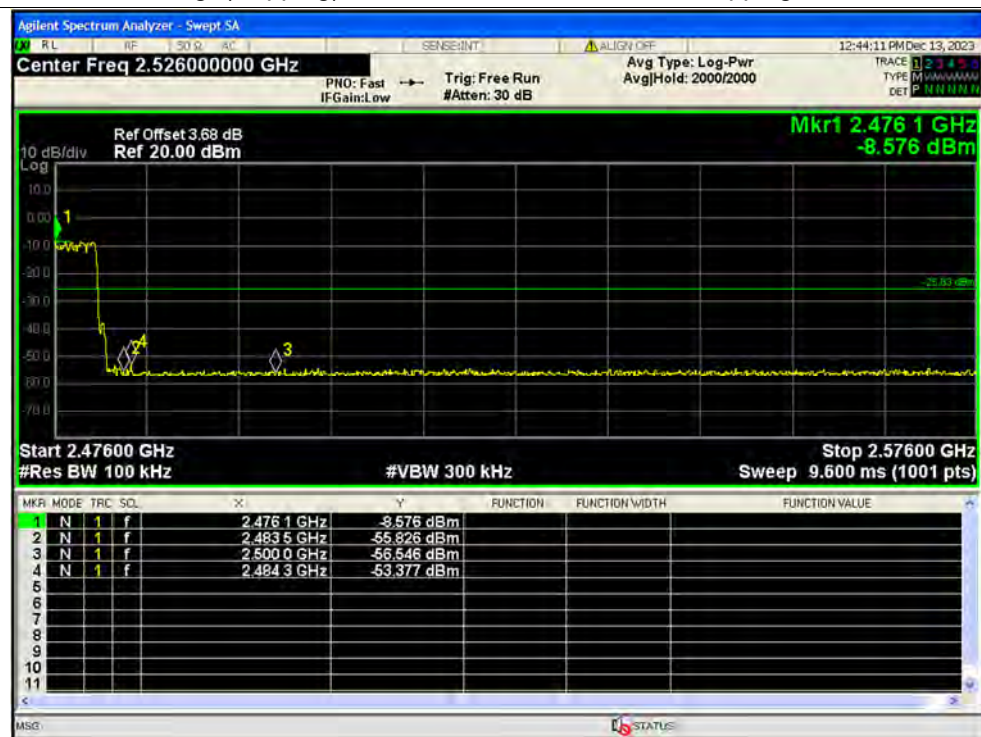
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



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



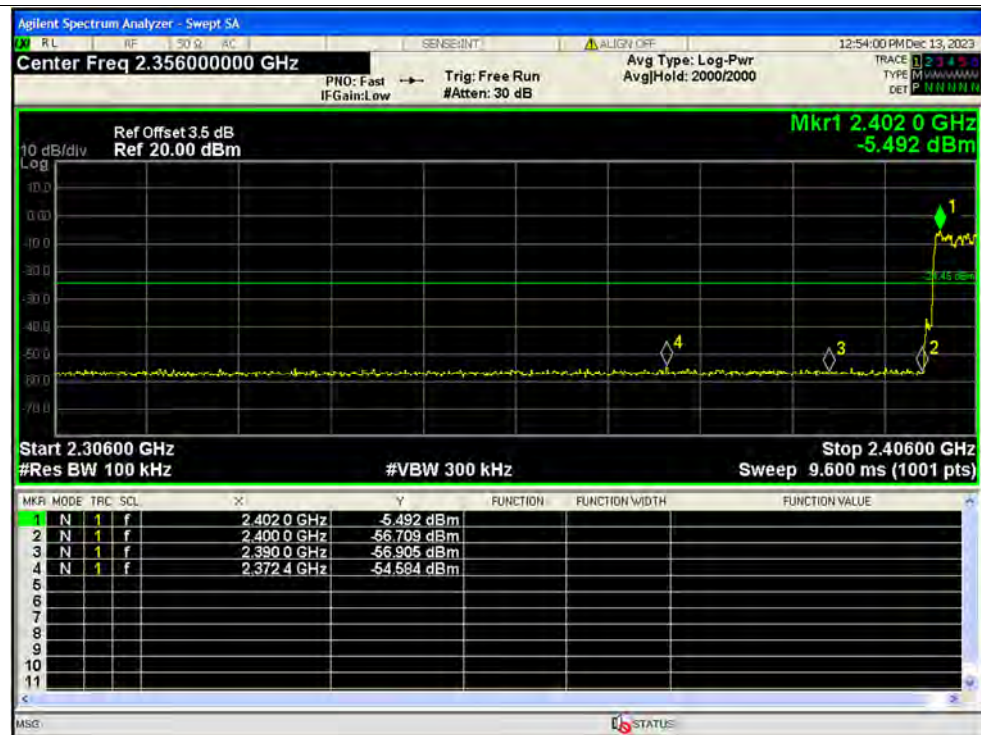
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



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



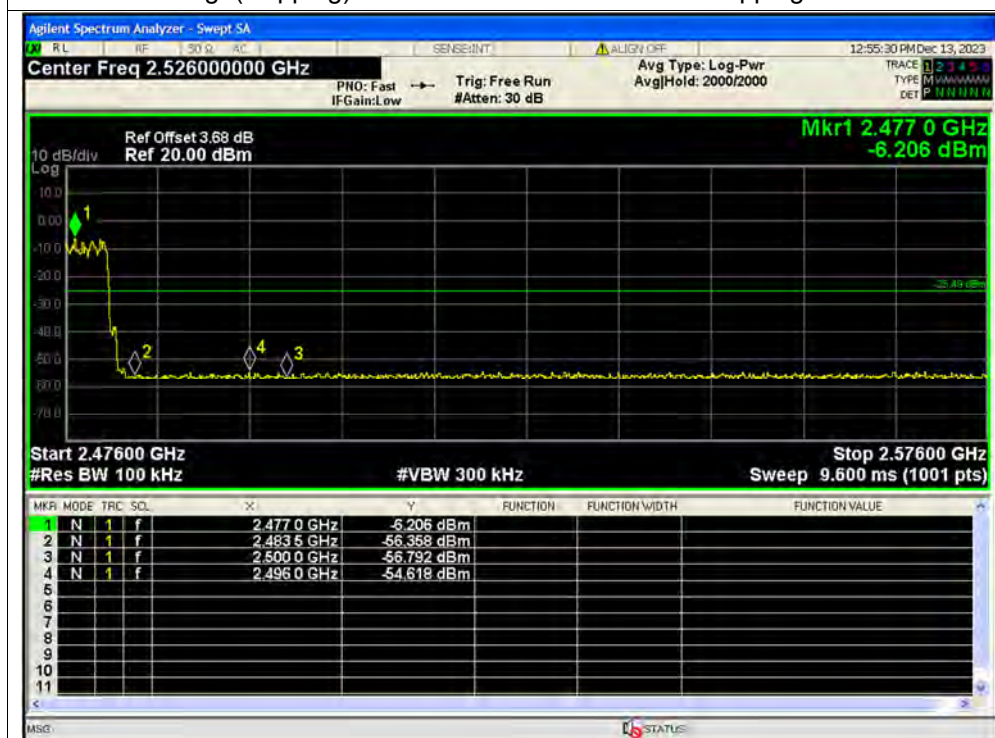
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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



**A.10. Conducted Emission**

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test Setup:

Test Mode: EUT + Adapter + USB Cable + Earphone + BT TX

Test voltage: AC 120V/60Hz

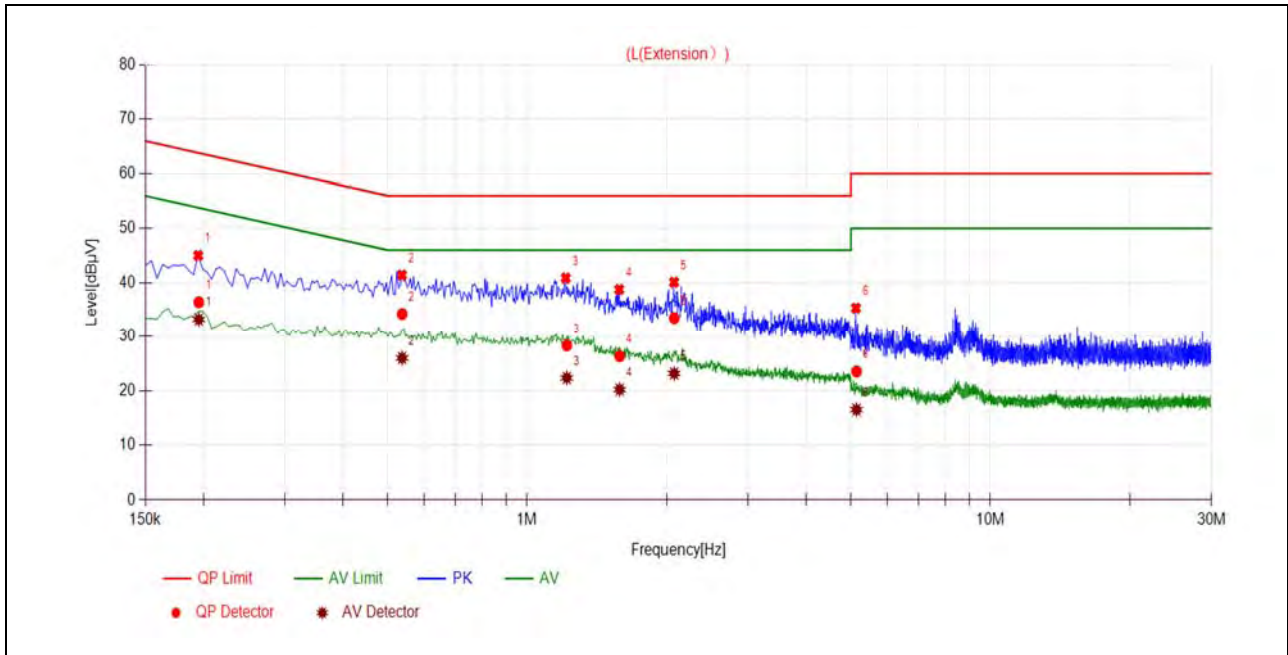
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

U_R : Receiver Reading

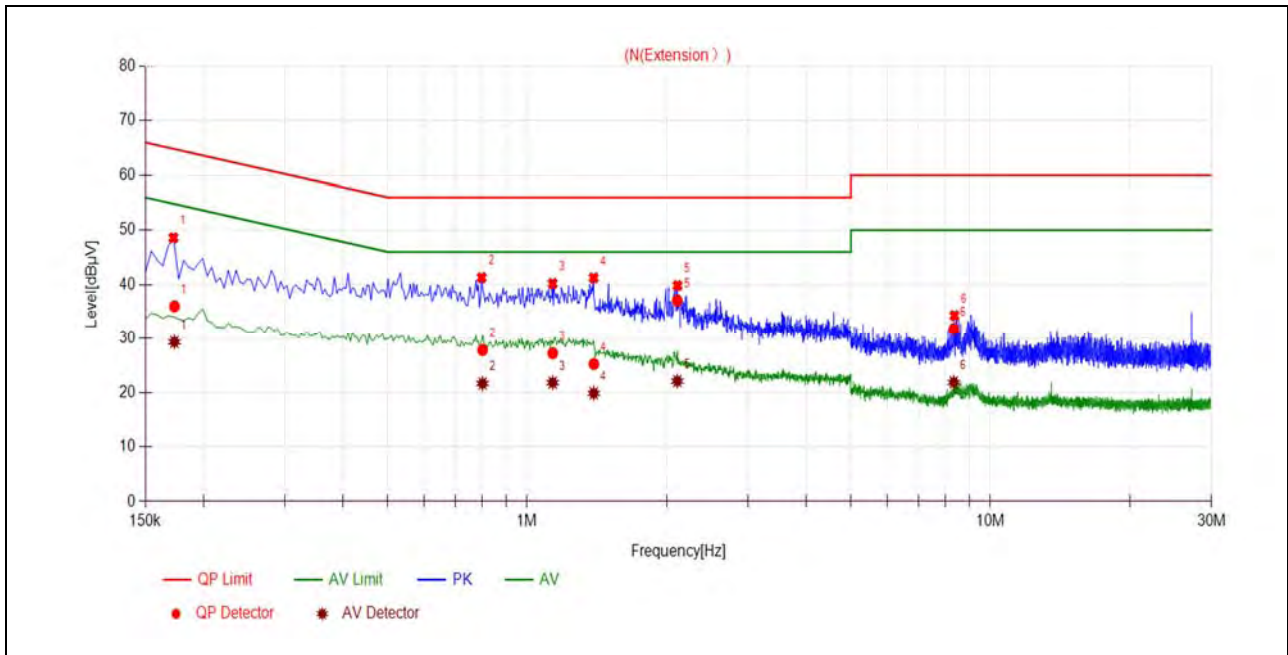
A_{Factor} : Voltage division factor of LISN

B. Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1956	36.40	33.22	63.79	53.79	Line	PASS
2	0.5373	34.21	25.99	56.00	46.00		PASS
3	1.2181	28.32	22.32	56.00	46.00		PASS
4	1.5844	26.33	20.18	56.00	46.00		PASS
5	2.0771	33.46	23.14	56.00	46.00		PASS
6	5.1394	23.50	16.49	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBμV)		Limit (dBμV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1733	36.00	29.32	64.80	54.80	Neutral	PASS
2	0.8014	27.81	21.64	56.00	46.00		PASS
3	1.1357	27.24	21.79	56.00	46.00		PASS
4	1.3932	25.23	19.84	56.00	46.00		PASS
5	2.1097	37.08	22.08	56.00	46.00		PASS
6	8.3344	31.80	21.85	60.00	50.00		PASS

**A.11. Restricted Frequency Bands**

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

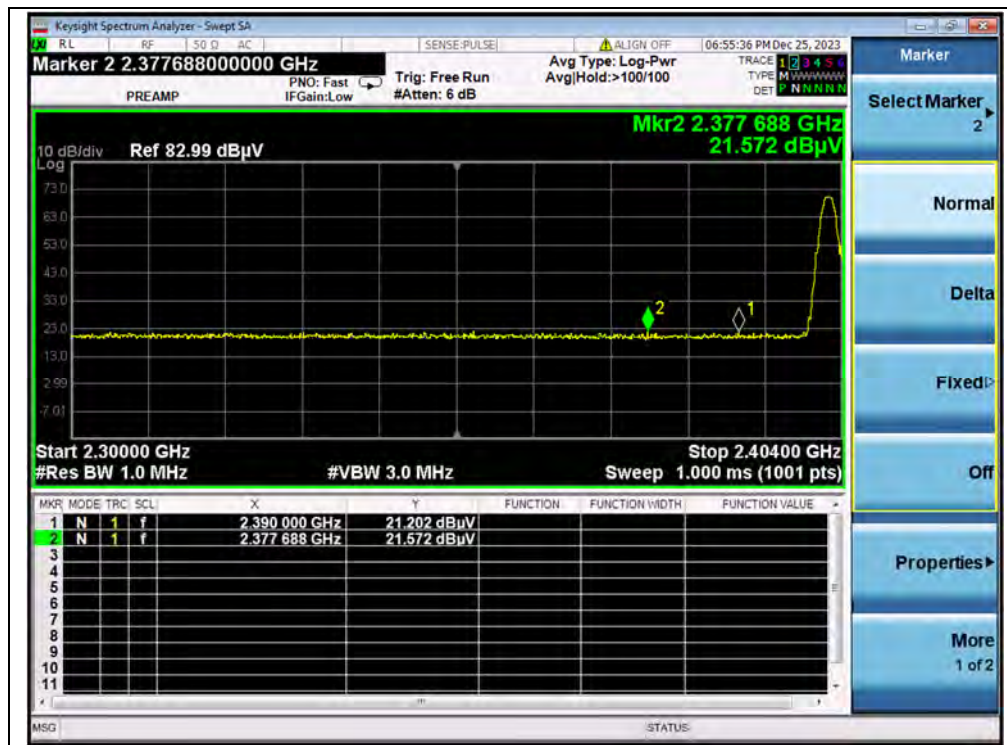
G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

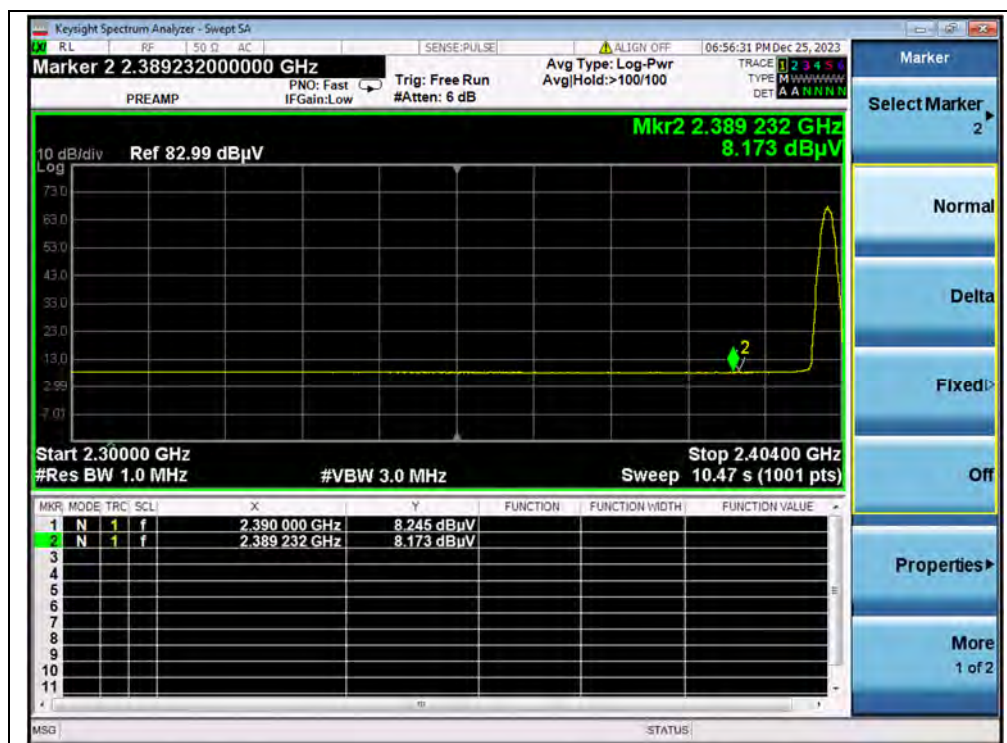
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

GFSK Mode

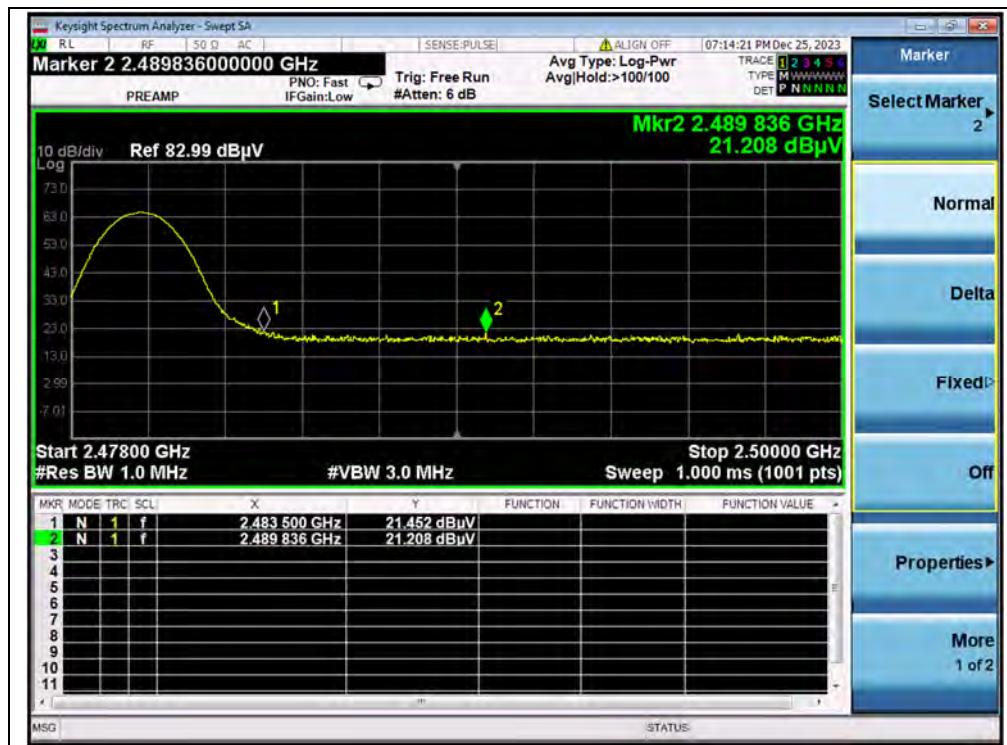
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2377.67	PK	21.57	6.74	27.20	55.51	74	PASS
0	2390.00	AV	8.25	6.74	27.20	42.19	54	PASS
78	2483.50	PK	21.45	6.74	27.20	55.39	74	PASS
78	2483.50	AV	8.99	6.74	27.20	42.93	54	PASS



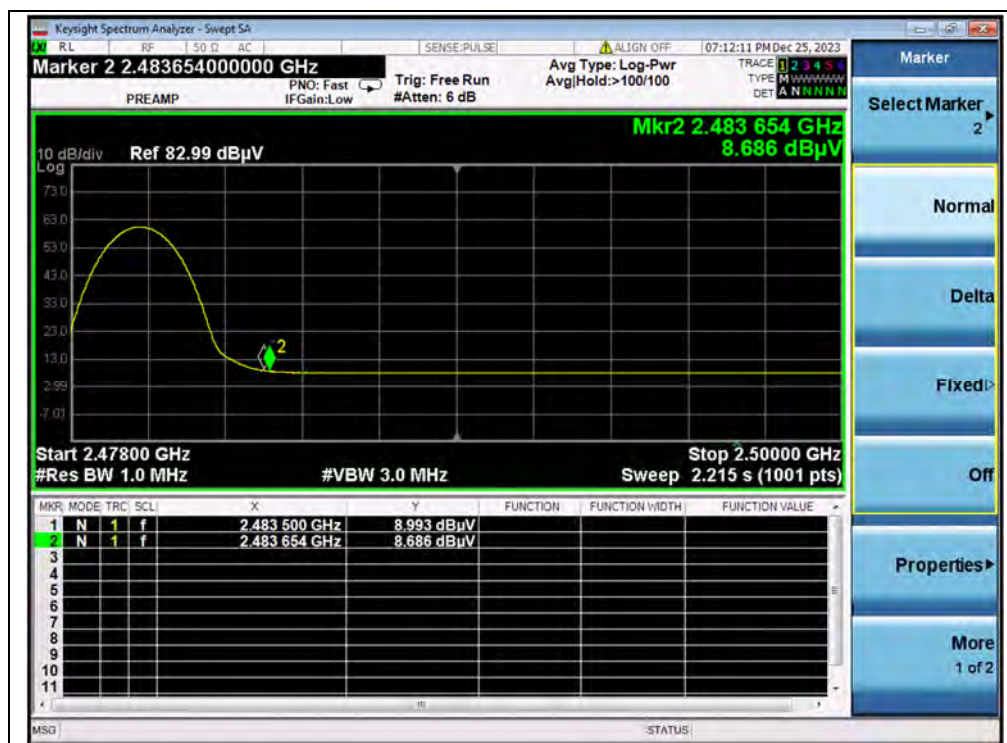
(PEAK, Channel 0, GFSK)



(AVERAGE, Channel 0, GFSK)



(PEAK, Channel 78, GFSK)

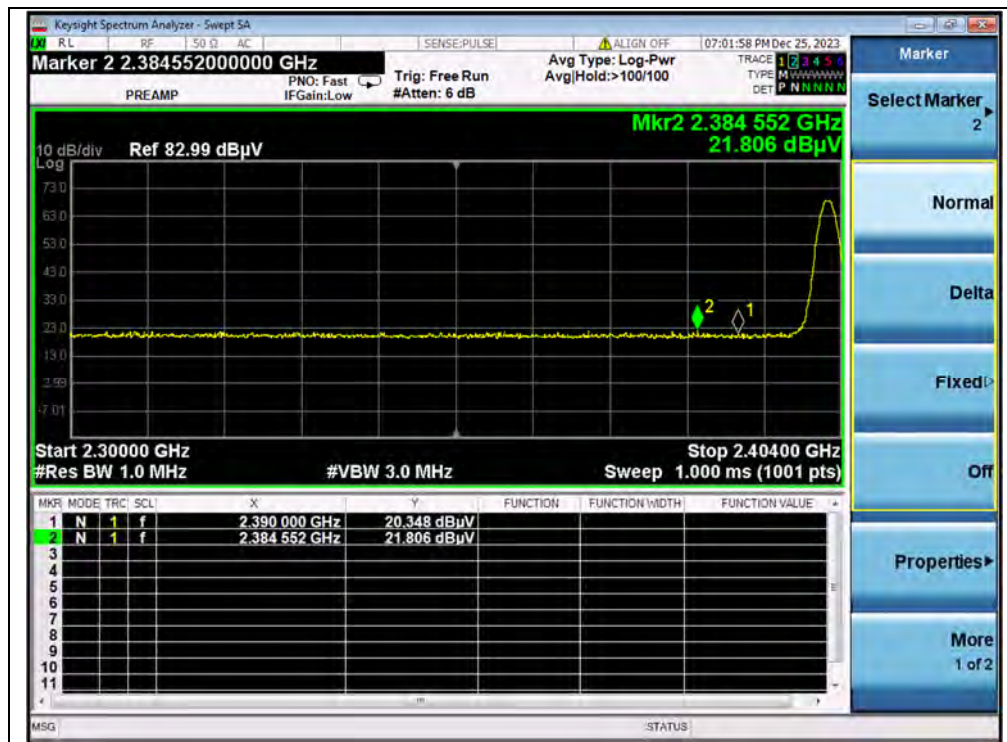


(AVERAGE, Channel 78, GFSK)

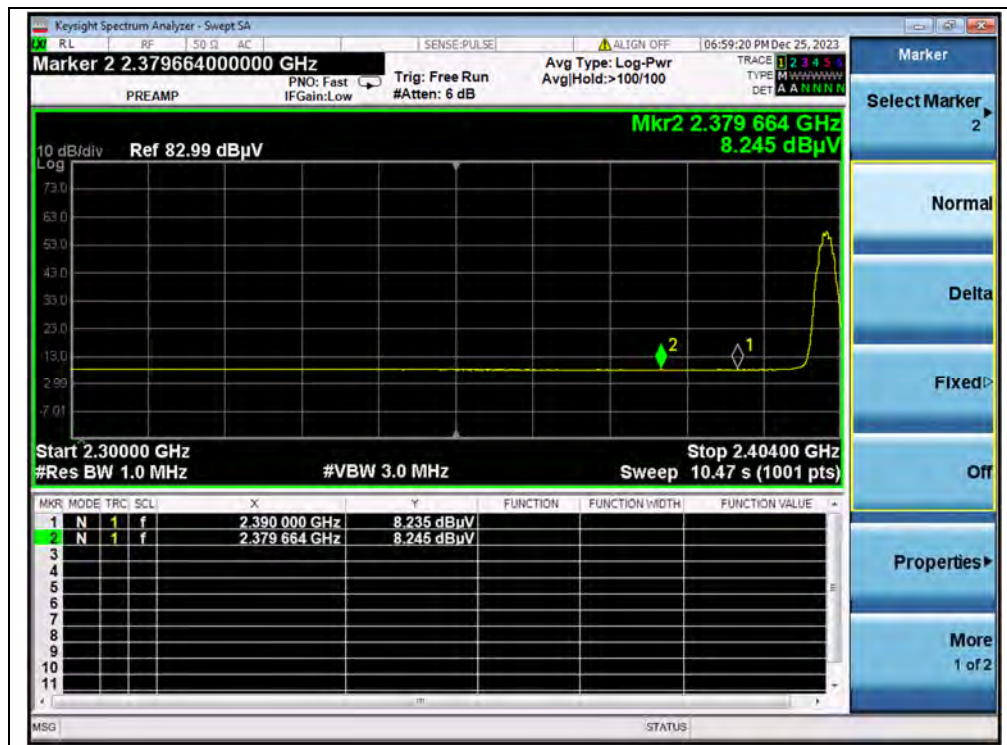
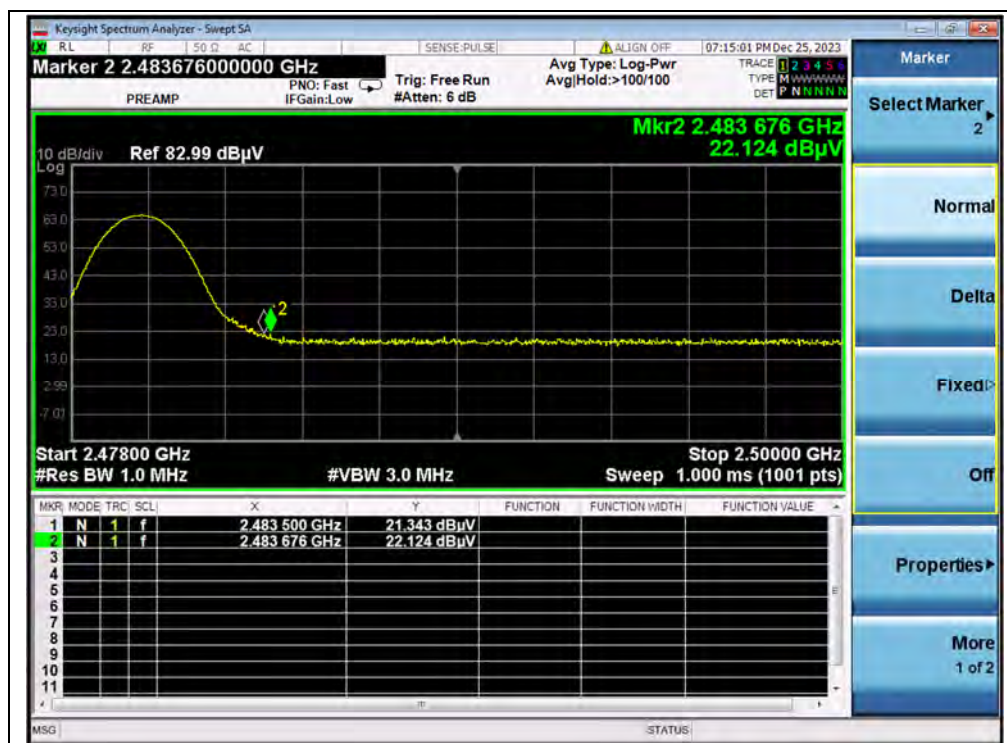


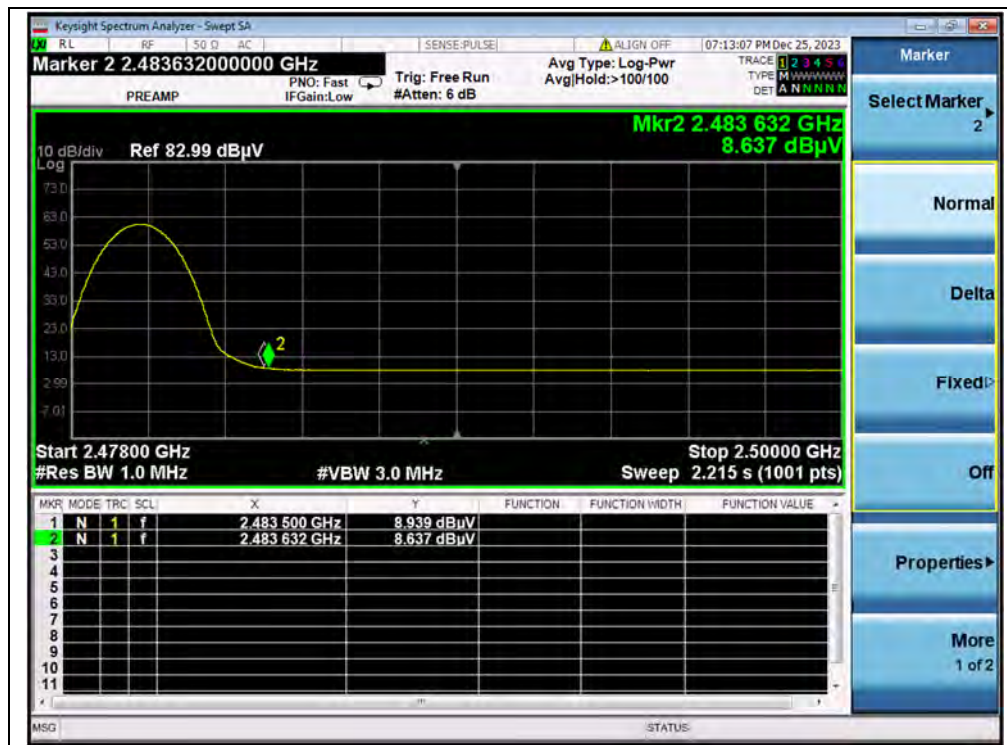
$\pi/4$ -DQPSK Mode

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2384.55	PK	21.81	6.74	27.20	55.75	74	PASS
0	2379.66	AV	8.25	6.74	27.20	42.19	54	PASS
78	248..68	PK	22.12	6.74	27.20	56.06	74	PASS
78	2483.50	AV	8.94	6.74	27.20	42.88	54	PASS



(PEAK, Channel 0, $\pi/4$ -DQPSK)

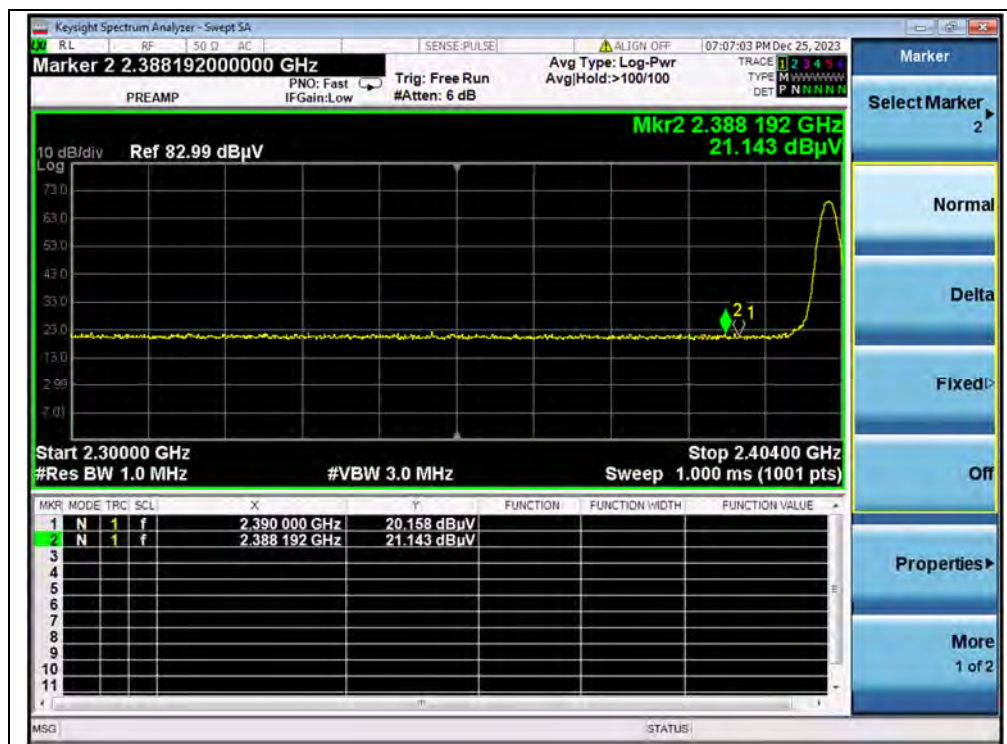

(AVERAGE, Channel 0, $\pi/4$ -DQPSK)

(PEAK, Channel 78, $\pi/4$ -DQPSK)

(AVERAGE, Channel 78, $\pi/4$ -DQPSK)

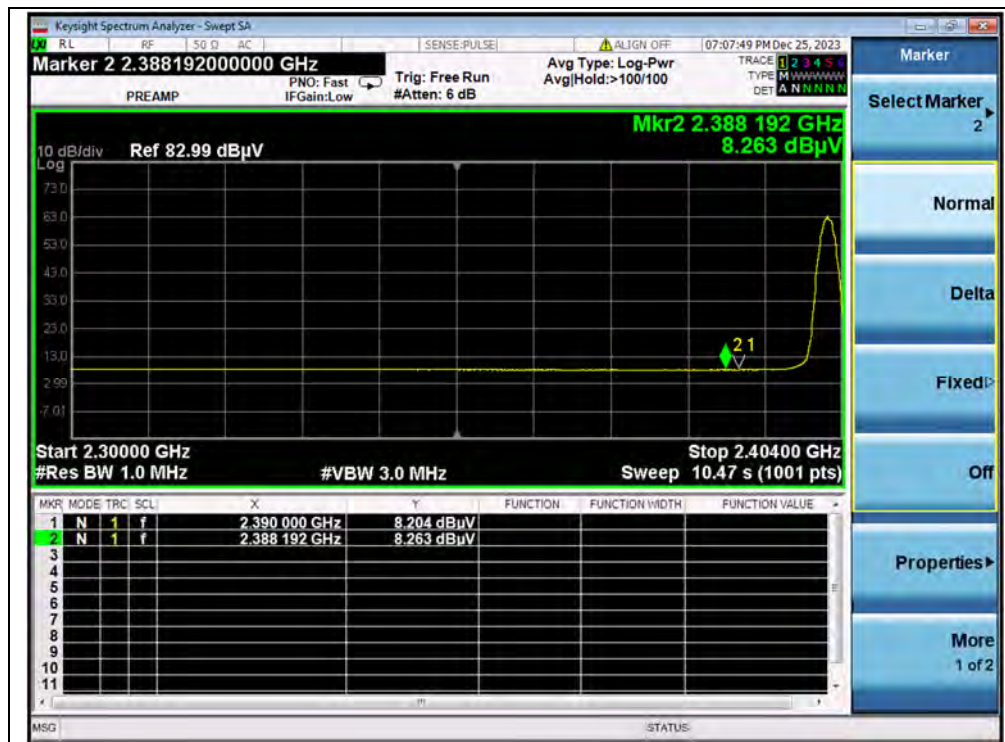


8-DPSK Mode

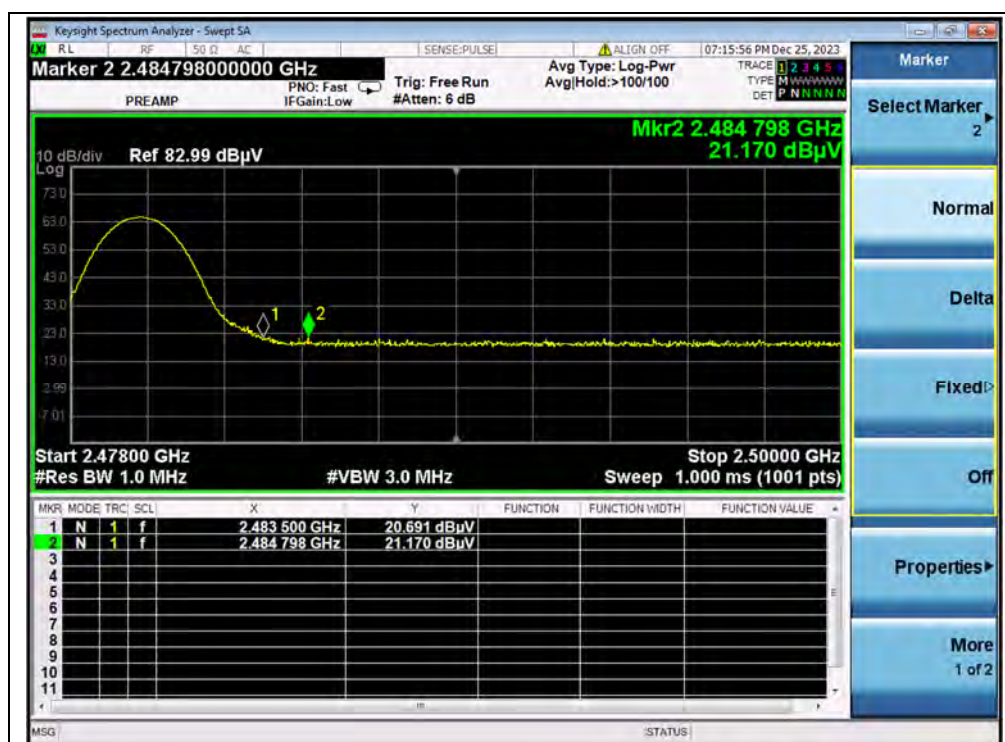
Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
0	2388.19	PK	21.14	6.74	27.20	55.08	74	PASS
0	2388.19	AV	8.26	6.74	27.20	42.20	54	PASS
78	2483.50	PK	21.45	6.74	27.20	55.39	74	PASS
78	2483.50	AV	8.99	6.74	27.20	42.93	54	PASS



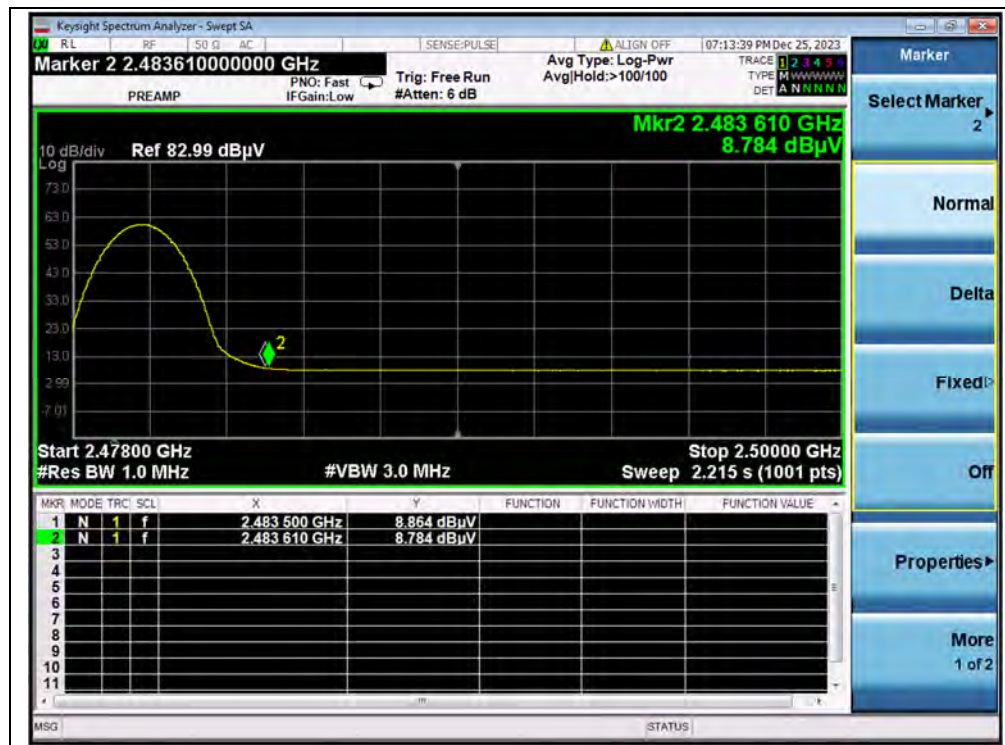
(PEAK, Channel 0, 8-DPSK)



(AVERAGE, Channel 0, 8-DPSK)



(PEAK, Channel 78, 8-DPSK)



(AVERAGE, Channel 78, 8-DPSK)



A.12. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

A_T : Total correction Factor except Antenna

U_R : Receiver Reading

G_{preamp} : Preamplifier Gain

A_{Factor} : Antenna Factor at 3m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

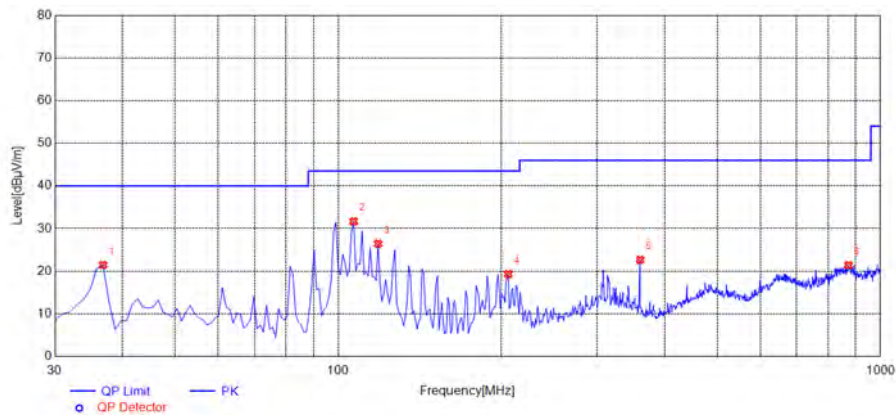
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note3: For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

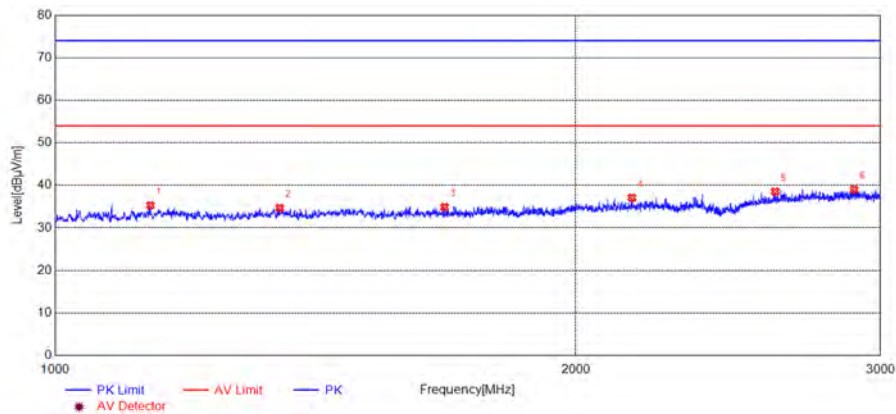
**GFSK Mode**

Plots for Channel 0



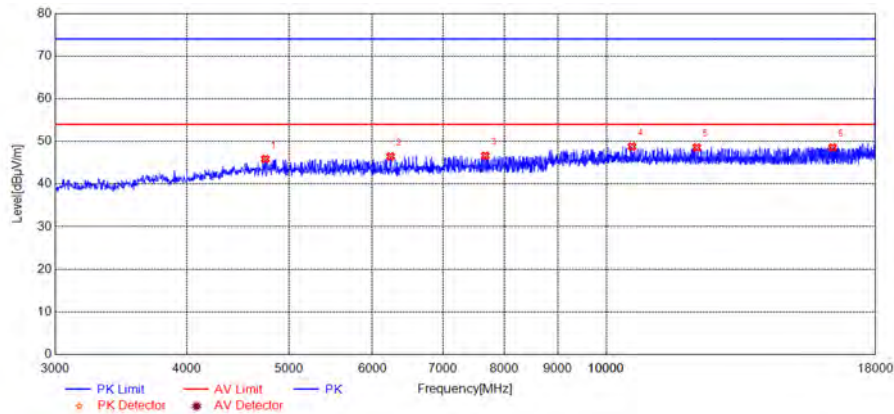
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
36.7968	21.46	-30.49	40.00	Horizontal	PASS
106.7067	31.68	-31.14	43.50	Horizontal	PASS
118.3584	26.43	-32.83	43.50	Horizontal	PASS
205.7457	19.33	-31.97	43.50	Horizontal	PASS
360.1301	22.69	-27.24	46.00	Horizontal	PASS
872.8028	21.42	-19.35	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



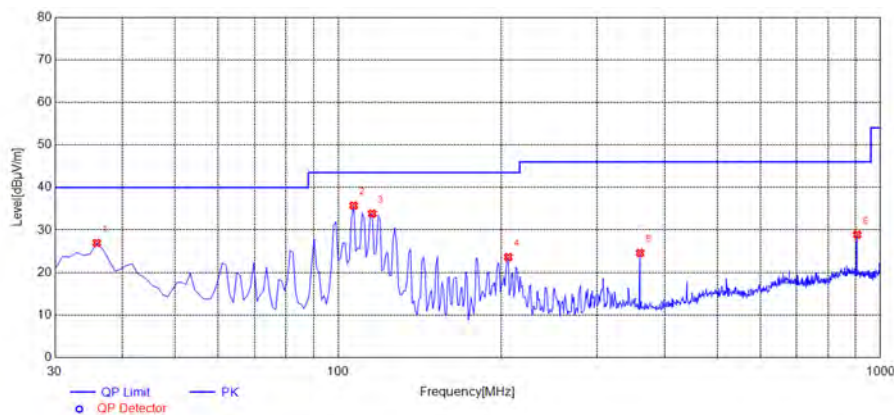
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1135.3785	35.31	-23.56	74.00	Horizontal	PASS
1348.7829	34.68	-23.18	74.00	Horizontal	PASS
1679.5599	34.88	-23.27	74.00	Horizontal	PASS
2155.0517	37.09	-21.26	74.00	Horizontal	PASS
2607.8693	38.51	-19.48	74.00	Horizontal	PASS
2896.6322	39.02	-18.08	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



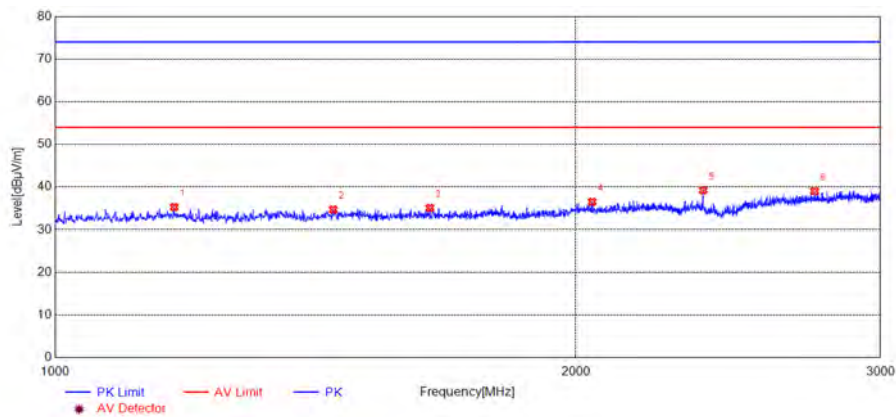
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4749.3499	45.86	-11.64	74.00	Horizontal	PASS
6243.6487	46.48	-7.39	74.00	Horizontal	PASS
7677.9356	46.63	-3.85	74.00	Horizontal	PASS
10576.5153	48.79	2.61	74.00	Horizontal	PASS
12184.8370	48.56	3.85	74.00	Horizontal	PASS
16388.6777	48.56	6.62	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



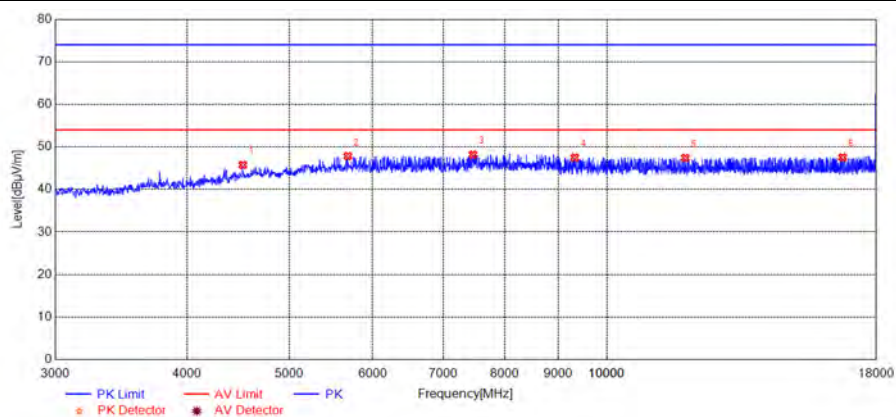
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	26.97	-30.81	40.00	Vertical	PASS
106.7067	35.73	-31.14	43.50	Vertical	PASS
115.4454	33.85	-32.53	43.50	Vertical	PASS
205.7457	23.62	-31.97	43.50	Vertical	PASS
360.1301	24.61	-27.24	46.00	Vertical	PASS
905.8158	28.90	-19.19	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1172.0574	35.28	-23.46	74.00	Vertical	PASS
1448.1494	34.70	-23.13	74.00	Vertical	PASS
1646.8823	35.10	-23.22	74.00	Vertical	PASS
2044.3481	36.54	-21.69	74.00	Vertical	PASS
2369.7899	39.26	-20.91	74.00	Vertical	PASS
2747.9160	39.07	-18.64	74.00	Vertical	PASS

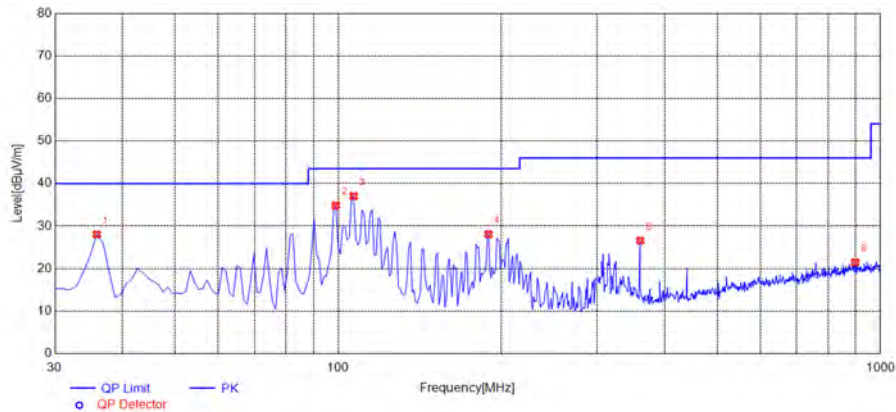
(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4518.3037	45.76	-12.89	74.00	Vertical	PASS
5682.5365	47.82	-9.20	74.00	Vertical	PASS
7467.8936	48.21	-4.41	74.00	Vertical	PASS
9325.2651	47.50	-0.23	74.00	Vertical	PASS
11869.7740	47.44	3.17	74.00	Vertical	PASS
16730.7461	47.53	6.81	74.00	Vertical	PASS

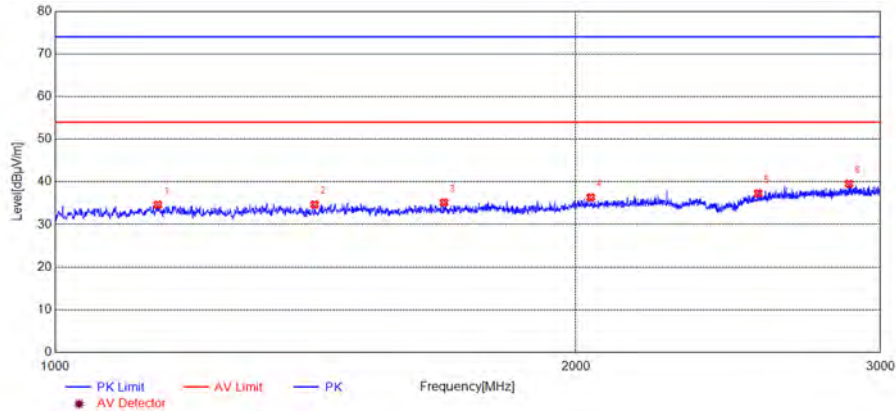
(Antenna Vertical, 3GHz to 18GHz)

Plot for Channel 39



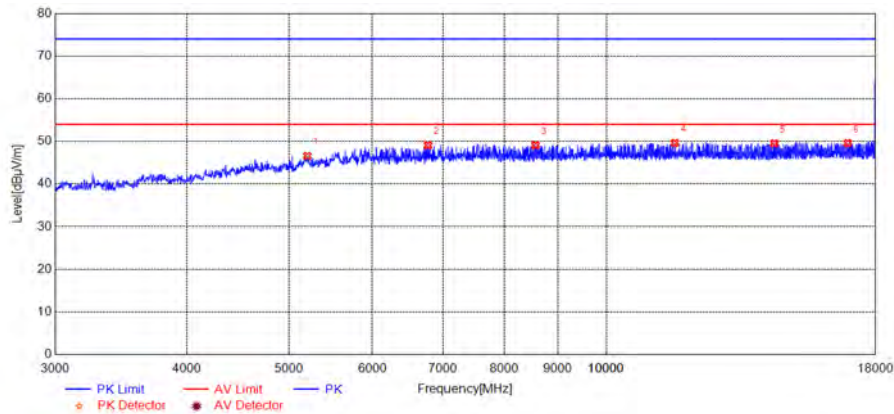
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	28.04	-30.81	40.00	Horizontal	PASS
98.9389	34.83	-31.20	43.50	Horizontal	PASS
106.7067	37.04	-31.14	43.50	Horizontal	PASS
189.2392	28.09	-32.81	43.50	Horizontal	PASS
360.1301	26.60	-27.24	46.00	Horizontal	PASS
898.0480	21.48	-19.16	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



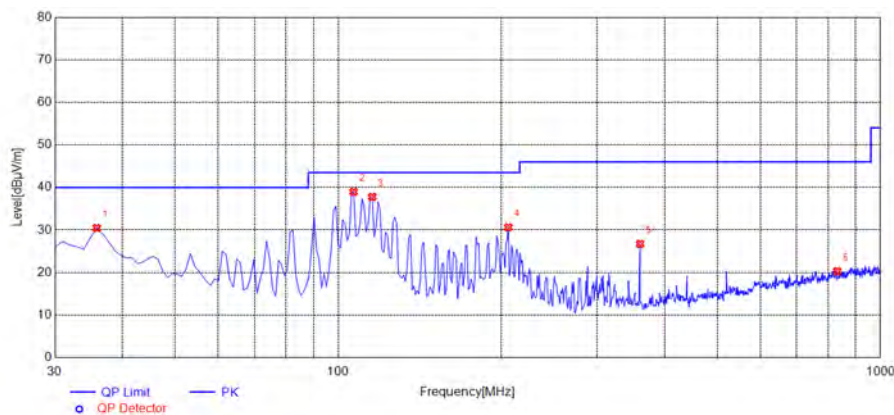
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1146.7156	34.62	-23.33	74.00	Horizontal	PASS
1412.8043	34.66	-23.66	74.00	Horizontal	PASS
1678.2261	35.14	-23.27	74.00	Horizontal	PASS
2040.3468	36.34	-21.68	74.00	Horizontal	PASS
2549.1831	37.29	-20.28	74.00	Horizontal	PASS
2877.2924	39.53	-18.23	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



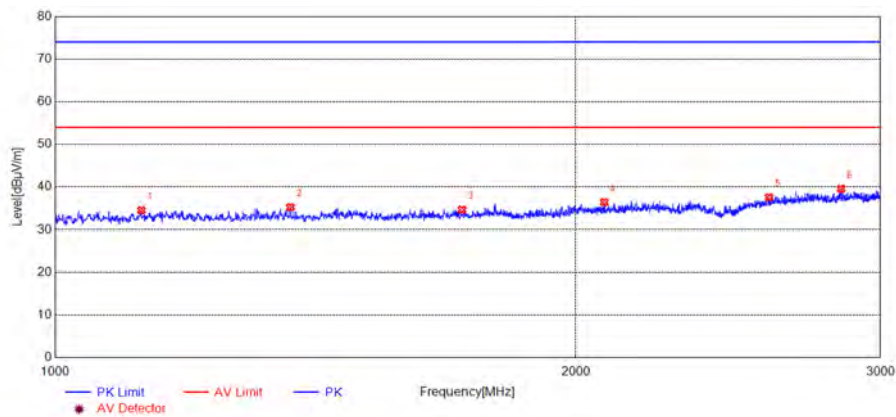
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
5205.4411	46.58	-9.90	74.00	Horizontal	PASS
6774.7550	49.09	-5.44	74.00	Horizontal	PASS
8569.1138	49.10	-2.53	74.00	Horizontal	PASS
11614.7229	49.64	3.00	74.00	Horizontal	PASS
14432.2865	49.53	4.91	74.00	Horizontal	PASS
16940.7882	49.59	6.97	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



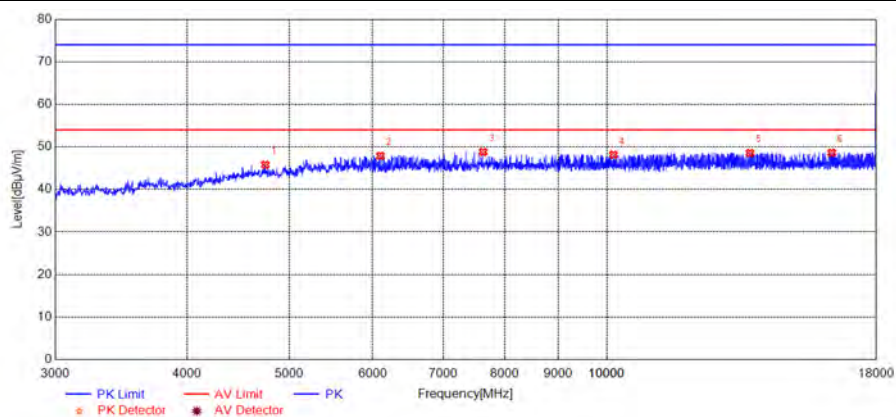
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	30.46	-30.81	40.00	Vertical	PASS
106.7067	38.99	-31.14	43.50	Vertical	PASS
115.4454	37.79	-32.53	43.50	Vertical	PASS
205.7457	30.63	-31.97	43.50	Vertical	PASS
360.1301	26.72	-27.24	46.00	Vertical	PASS
832.0220	20.33	-19.87	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1122.0407	34.53	-23.84	74.00	Vertical	PASS
1368.1227	35.26	-23.42	74.00	Vertical	PASS
1718.9063	34.68	-23.22	74.00	Vertical	PASS
2077.0257	36.42	-21.62	74.00	Vertical	PASS
2586.5288	37.56	-19.72	74.00	Vertical	PASS
2847.2824	39.59	-18.47	74.00	Vertical	PASS

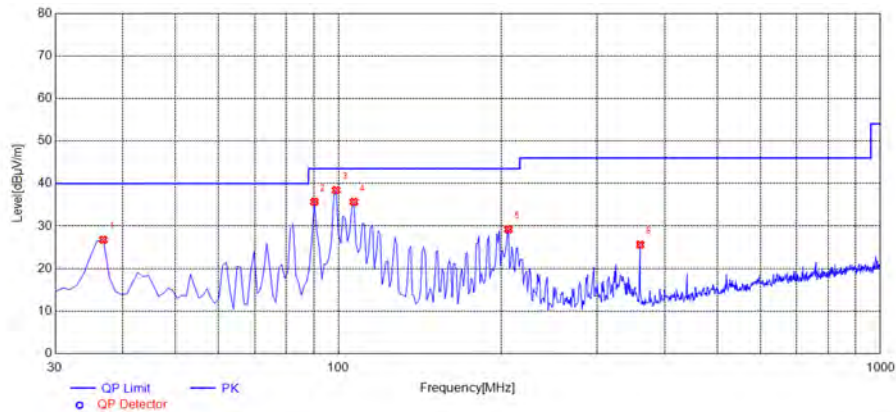
(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4746.3493	45.82	-11.68	74.00	Vertical	PASS
6102.6205	47.90	-8.02	74.00	Vertical	PASS
7635.9272	48.82	-3.48	74.00	Vertical	PASS
10147.4295	48.17	0.80	74.00	Vertical	PASS
13667.1334	48.59	4.64	74.00	Vertical	PASS
16337.6675	48.64	5.93	74.00	Vertical	PASS

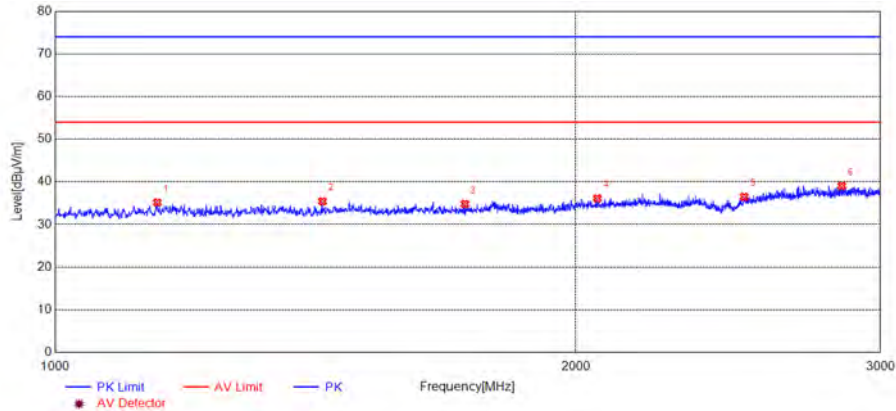
(Antenna Vertical, 3GHz to 18GHz)

Plot for Channel 78



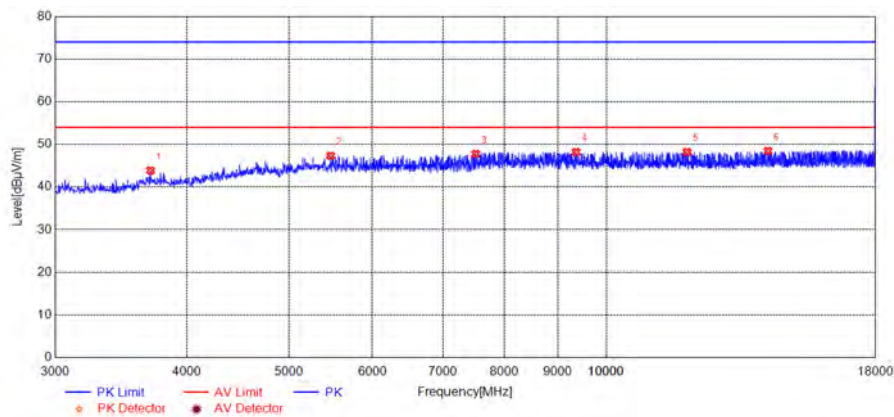
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
36.7968	26.79	-30.49	40.00	Horizontal	PASS
90.2002	35.71	-32.74	43.50	Horizontal	PASS
98.9389	38.43	-31.20	43.50	Horizontal	PASS
106.7067	35.69	-31.14	43.50	Horizontal	PASS
205.7457	29.22	-31.97	43.50	Horizontal	PASS
360.1301	25.63	-27.24	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



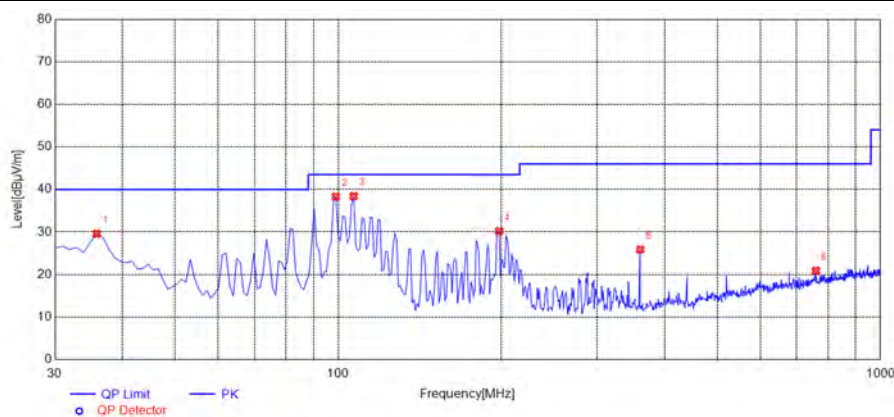
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1146.0487	35.16	-23.34	74.00	Horizontal	PASS
1427.4758	35.42	-23.44	74.00	Horizontal	PASS
1725.5752	34.81	-23.19	74.00	Horizontal	PASS
2058.3528	36.12	-21.68	74.00	Horizontal	PASS
2502.5008	36.50	-20.40	74.00	Horizontal	PASS
2849.2831	39.06	-18.45	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



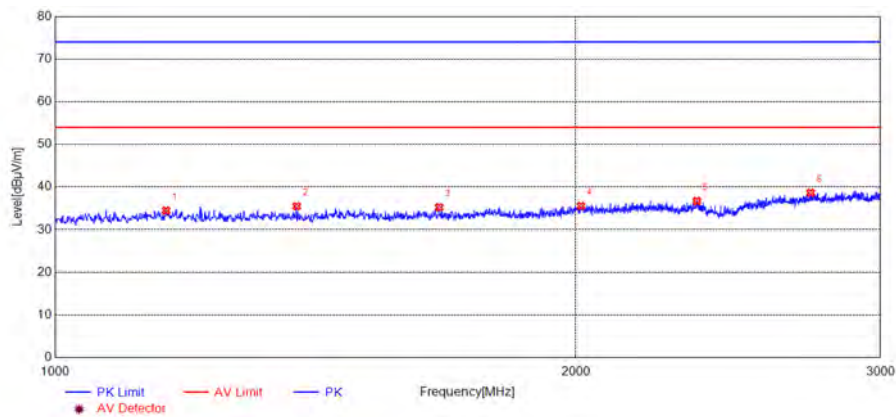
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
3696.1392	43.88	-16.14	74.00	Horizontal	PASS
5478.4957	47.34	-10.09	74.00	Horizontal	PASS
7518.9038	47.78	-4.31	74.00	Horizontal	PASS
9361.2723	48.19	-0.89	74.00	Horizontal	PASS
11929.7860	48.21	3.09	74.00	Horizontal	PASS
14234.2468	48.46	5.34	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



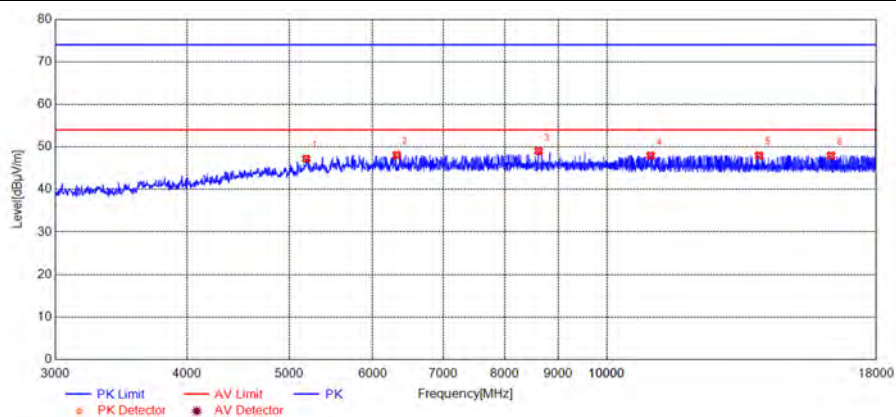
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	29.59	-30.81	40.00	Vertical	PASS
98.9389	38.31	-31.20	43.50	Vertical	PASS
106.7067	38.44	-31.14	43.50	Vertical	PASS
197.9780	30.20	-32.26	43.50	Vertical	PASS
360.1301	25.89	-27.24	46.00	Vertical	PASS
760.1702	20.90	-20.40	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1159.3865	34.47	-23.35	74.00	Vertical	PASS
1379.4598	35.50	-23.57	74.00	Vertical	PASS
1667.5559	35.24	-23.25	74.00	Vertical	PASS
2013.6712	35.57	-21.62	74.00	Vertical	PASS
2349.7833	36.72	-20.78	74.00	Vertical	PASS
2733.9113	38.66	-18.80	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 3GHz)



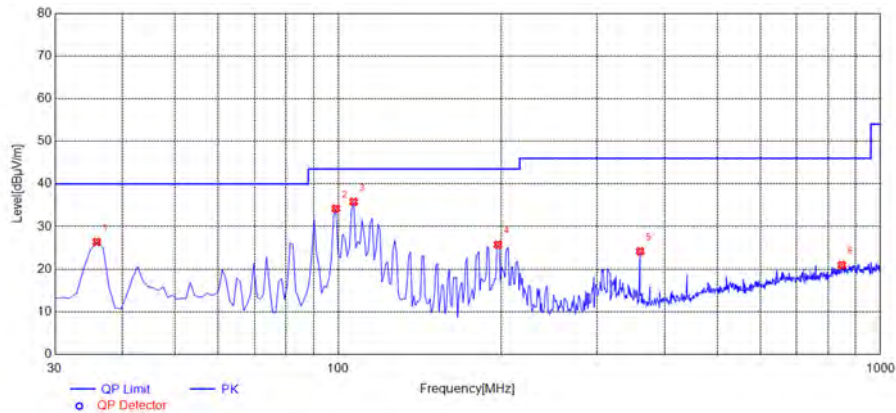
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
5190.4381	47.20	-10.06	74.00	Vertical	PASS
6321.6643	48.07	-7.03	74.00	Vertical	PASS
8617.1234	49.03	-2.50	74.00	Vertical	PASS
11005.6011	47.98	2.88	74.00	Vertical	PASS
13946.1892	48.00	5.69	74.00	Vertical	PASS
16313.6627	47.97	5.78	74.00	Vertical	PASS

(Antenna Vertical, 3GHz to 18GHz)



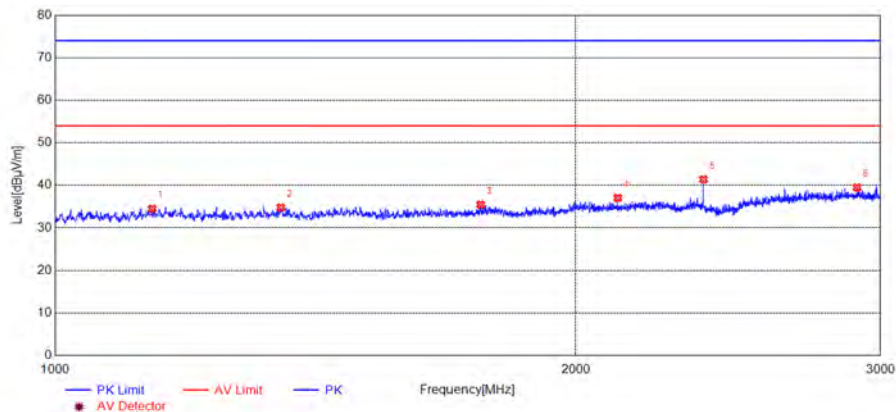
$\pi/4$ -DQPSK Mode

Plots for Channel 0



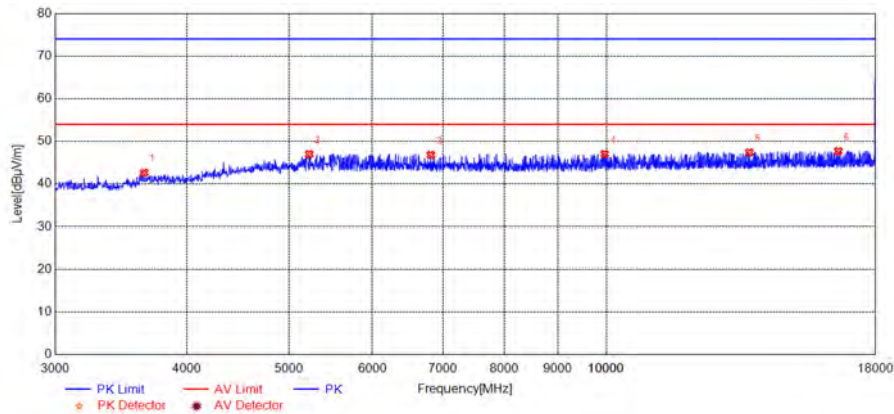
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	26.40	-30.81	40.00	Horizontal	PASS
98.9389	34.21	-31.20	43.50	Horizontal	PASS
106.7067	35.81	-31.14	43.50	Horizontal	PASS
197.0070	25.77	-32.17	43.50	Horizontal	PASS
360.1301	24.18	-27.24	46.00	Horizontal	PASS
848.5285	20.97	-19.66	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



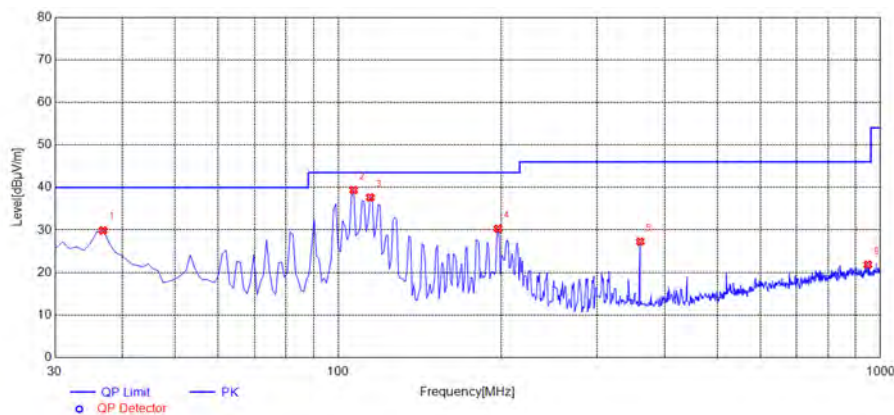
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1138.0460	34.49	-23.51	74.00	Horizontal	PASS
1350.7836	34.79	-23.18	74.00	Horizontal	PASS
1762.2541	35.45	-22.90	74.00	Horizontal	PASS
2115.0383	37.03	-21.48	74.00	Horizontal	PASS
2370.4568	41.39	-20.92	74.00	Horizontal	PASS
2907.9693	39.50	-18.14	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



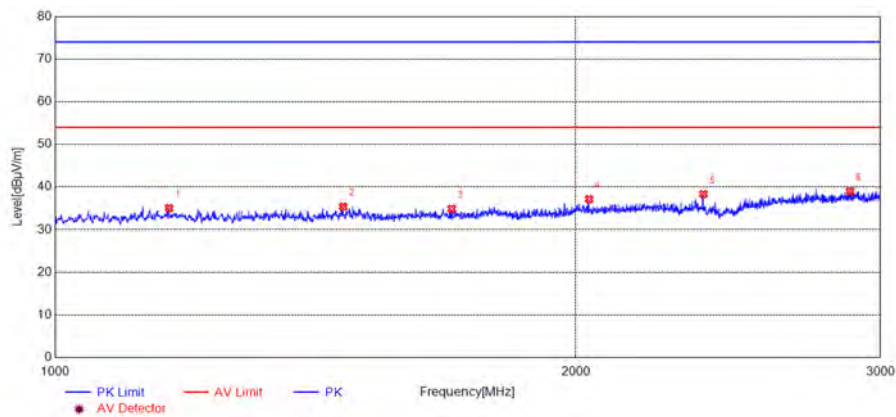
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
3645.1290	42.67	-16.32	74.00	Horizontal	PASS
5226.4453	47.00	-10.07	74.00	Horizontal	PASS
6816.7634	46.85	-5.81	74.00	Horizontal	PASS
9964.3929	47.04	0.10	74.00	Horizontal	PASS
13667.1334	47.41	4.64	74.00	Horizontal	PASS
16595.7191	47.68	6.79	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



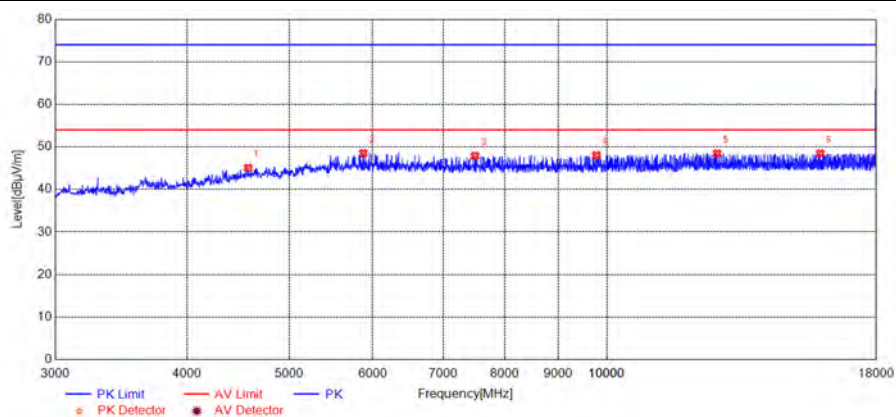
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
36.7968	29.90	-30.49	40.00	Vertical	PASS
106.7067	39.37	-31.14	43.50	Vertical	PASS
114.4745	37.65	-32.29	43.50	Vertical	PASS
197.0070	30.27	-32.17	43.50	Vertical	PASS
360.1301	27.26	-27.24	46.00	Vertical	PASS
947.5676	21.83	-19.08	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1164.0547	35.05	-23.39	74.00	Vertical	PASS
1467.4892	35.41	-23.09	74.00	Vertical	PASS
1695.5652	34.88	-23.30	74.00	Vertical	PASS
2035.6786	37.15	-21.67	74.00	Vertical	PASS
2370.4568	38.32	-20.92	74.00	Vertical	PASS
2881.2938	39.03	-18.20	74.00	Vertical	PASS

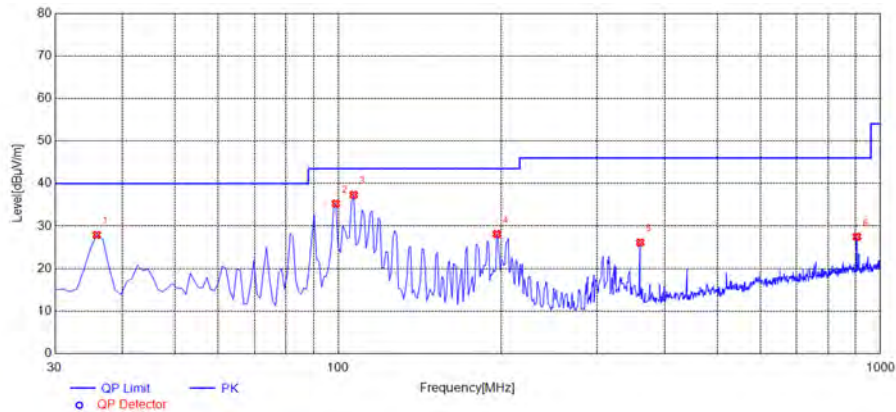
(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4572.3145	45.06	-12.33	74.00	Vertical	PASS
5877.5755	48.52	-8.09	74.00	Vertical	PASS
7500.9002	47.88	-4.45	74.00	Vertical	PASS
9775.3551	48.04	-0.28	74.00	Vertical	PASS
12721.9444	48.45	3.67	74.00	Vertical	PASS
15938.5877	48.44	5.90	74.00	Vertical	PASS

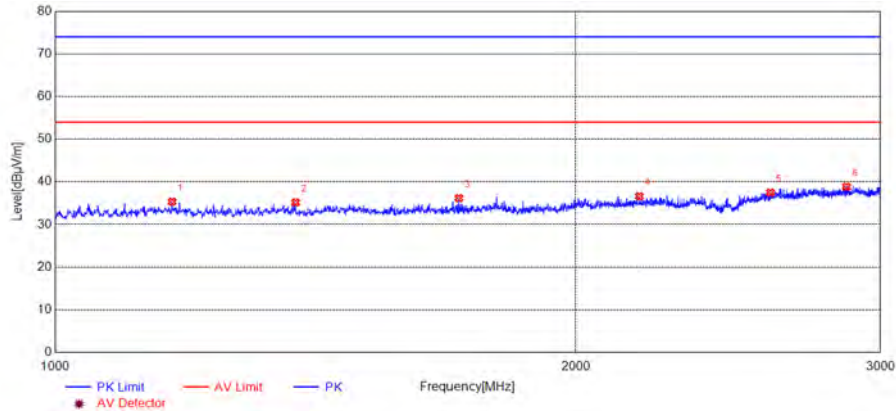
(Antenna Vertical, 3GHz to 18GHz)

Plot for Channel 39



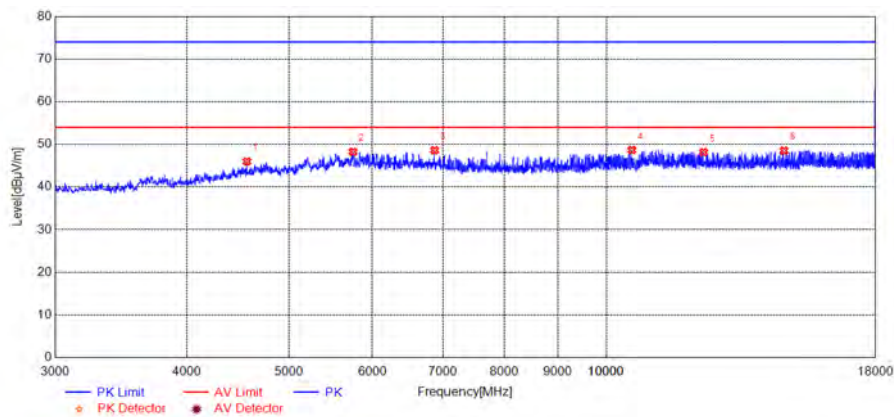
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	27.91	-30.81	40.00	Horizontal	PASS
98.9389	35.29	-31.20	43.50	Horizontal	PASS
106.7067	37.36	-31.14	43.50	Horizontal	PASS
196.0360	28.15	-32.08	43.50	Horizontal	PASS
360.1301	26.12	-27.24	46.00	Horizontal	PASS
904.8448	27.49	-19.21	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



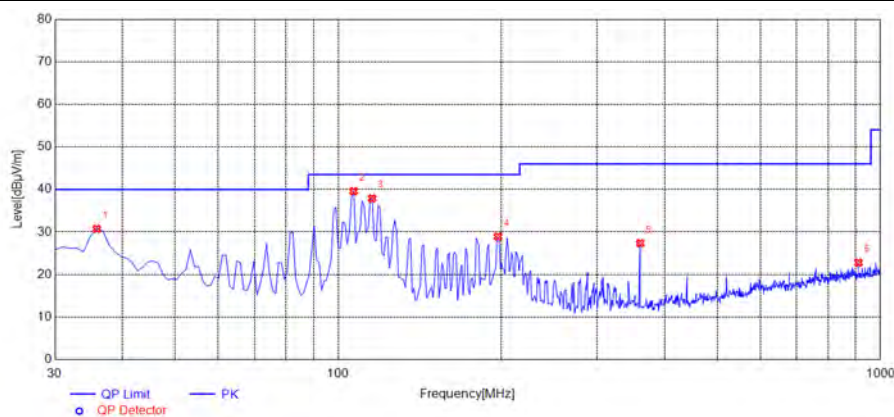
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1168.7229	35.36	-23.43	74.00	Horizontal	PASS
1377.4592	35.16	-23.54	74.00	Horizontal	PASS
1712.2374	36.18	-23.25	74.00	Horizontal	PASS
2176.3921	36.61	-21.17	74.00	Horizontal	PASS
2591.1971	37.47	-19.65	74.00	Horizontal	PASS
2867.2891	38.86	-18.31	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



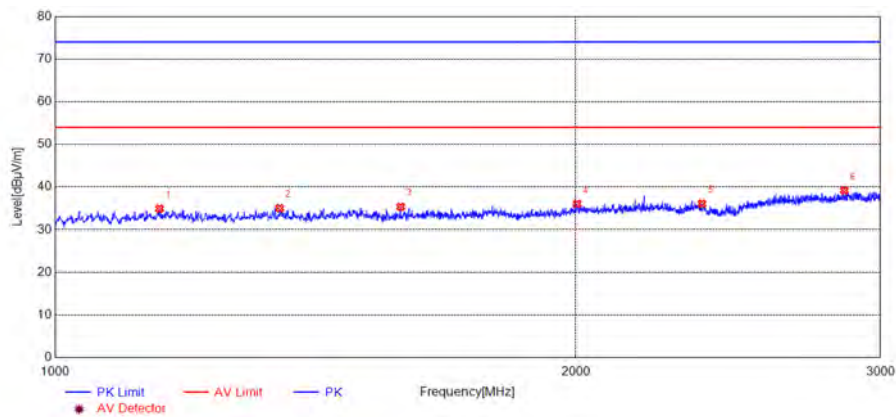
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4563.3127	45.98	-12.30	74.00	Horizontal	PASS
5751.5503	48.26	-7.86	74.00	Horizontal	PASS
6873.7748	48.63	-5.40	74.00	Horizontal	PASS
10573.5147	48.68	2.71	74.00	Horizontal	PASS
12367.8736	48.16	3.72	74.00	Horizontal	PASS
14744.3489	48.54	5.38	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



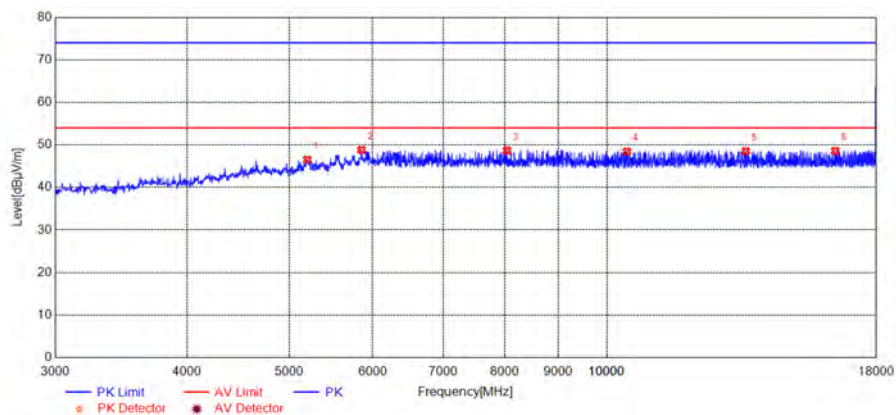
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	30.73	-30.81	40.00	Vertical	PASS
106.7067	39.60	-31.14	43.50	Vertical	PASS
115.4454	37.89	-32.53	43.50	Vertical	PASS
197.0070	28.91	-32.17	43.50	Vertical	PASS
360.1301	27.35	-27.24	46.00	Vertical	PASS
910.6707	22.80	-19.12	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1149.3831	34.92	-23.27	74.00	Vertical	PASS
1348.7829	35.04	-23.18	74.00	Vertical	PASS
1584.1947	35.37	-23.35	74.00	Vertical	PASS
2003.6679	36.07	-21.60	74.00	Vertical	PASS
2365.7886	36.09	-20.89	74.00	Vertical	PASS
2859.2864	39.23	-18.37	74.00	Vertical	PASS

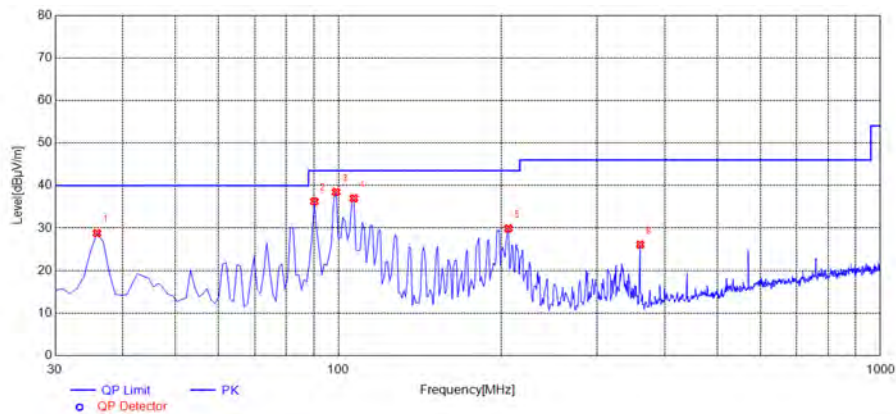
(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
5202.4405	46.52	-9.88	74.00	Vertical	PASS
5856.5713	48.82	-7.96	74.00	Vertical	PASS
8044.0088	48.69	-2.91	74.00	Vertical	PASS
10450.4901	48.46	2.18	74.00	Vertical	PASS
13541.1082	48.53	4.97	74.00	Vertical	PASS
16463.6927	48.59	7.19	74.00	Vertical	PASS

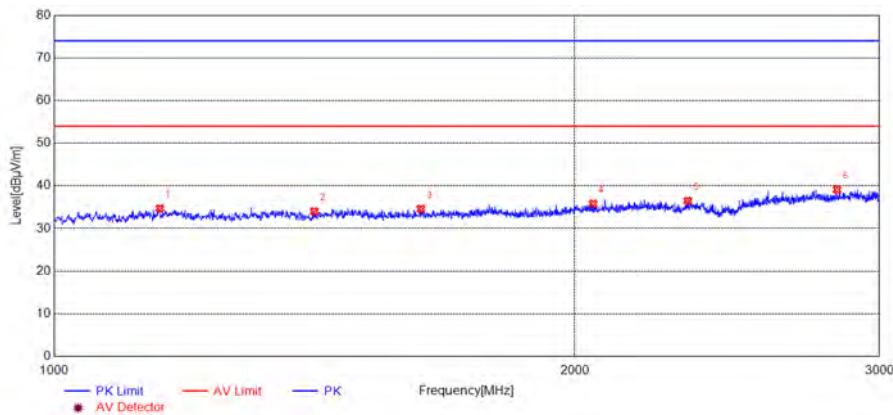
(Antenna Vertical, 3GHz to 18GHz)

Plot for Channel 78



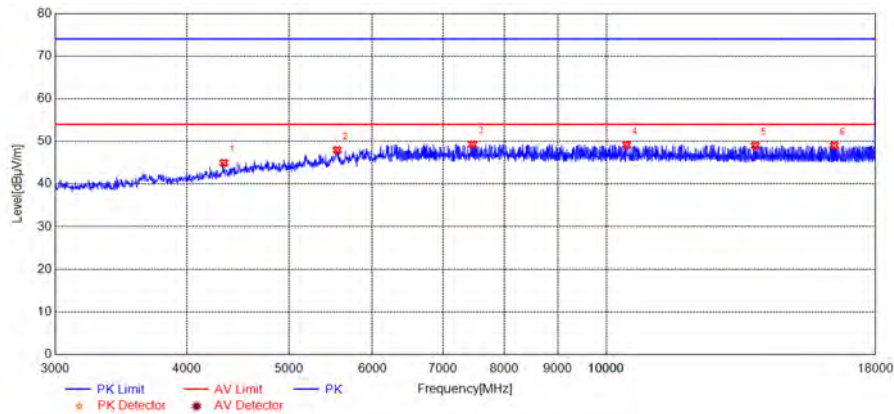
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	28.80	-30.81	40.00	Horizontal	PASS
90.2002	36.27	-32.74	43.50	Horizontal	PASS
98.9389	38.48	-31.20	43.50	Horizontal	PASS
106.7067	36.98	-31.14	43.50	Horizontal	PASS
205.7457	29.92	-31.97	43.50	Horizontal	PASS
360.1301	26.10	-27.24	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



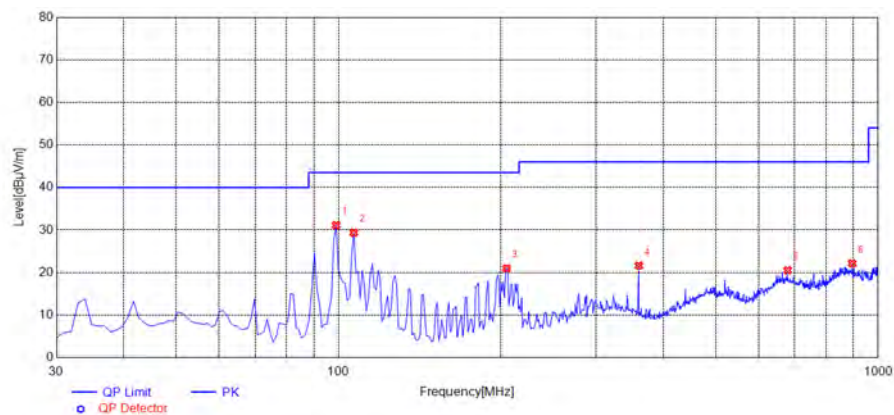
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1151.3838	34.67	-23.27	74.00	Horizontal	PASS
1414.1380	34.02	-23.64	74.00	Horizontal	PASS
1629.5432	34.60	-23.21	74.00	Horizontal	PASS
2049.0163	35.80	-21.70	74.00	Horizontal	PASS
2324.4415	36.45	-21.21	74.00	Horizontal	PASS
2835.2784	39.10	-18.58	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



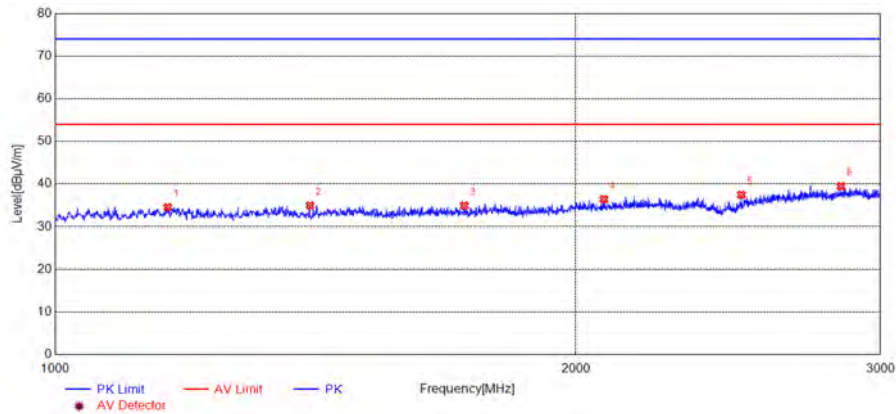
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4338.2677	44.95	-13.49	74.00	Horizontal	PASS
5556.5113	47.95	-8.46	74.00	Horizontal	PASS
7467.8936	49.28	-4.41	74.00	Horizontal	PASS
10450.4901	49.19	2.18	74.00	Horizontal	PASS
13844.1688	49.00	5.88	74.00	Horizontal	PASS
16451.6903	49.02	7.04	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



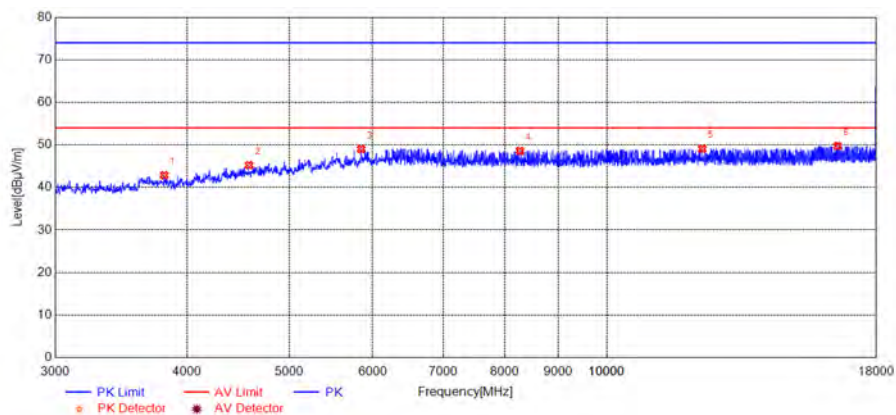
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
98.9389	31.12	-31.20	43.50	Vertical	PASS
106.7067	29.38	-31.14	43.50	Vertical	PASS
204.7748	21.00	-31.91	43.50	Vertical	PASS
360.1301	21.62	-27.24	46.00	Vertical	PASS
679.5796	20.53	-21.49	46.00	Vertical	PASS
895.1351	22.16	-18.97	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1162.0540	34.53	-23.37	74.00	Vertical	PASS
1404.1347	34.98	-23.79	74.00	Vertical	PASS
1724.2414	34.90	-23.20	74.00	Vertical	PASS
2076.3588	36.41	-21.63	74.00	Vertical	PASS
2493.1644	37.47	-20.45	74.00	Vertical	PASS
2845.9487	39.48	-18.48	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 3GHz)

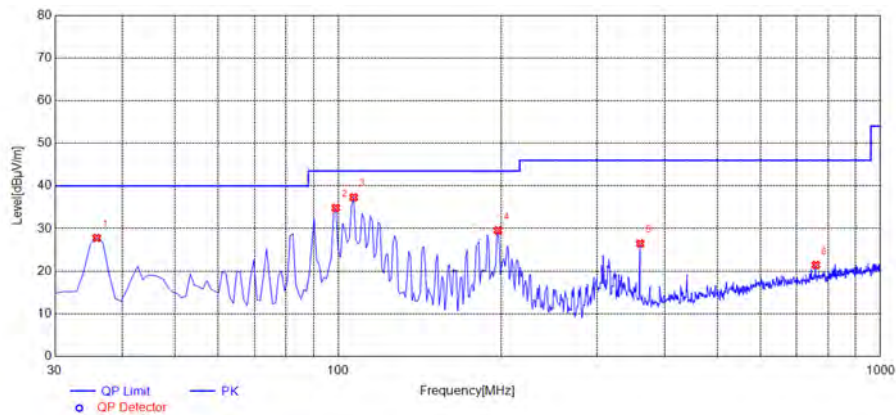


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
3807.1614	42.88	-15.27	74.00	Vertical	PASS
4581.3163	45.24	-12.36	74.00	Vertical	PASS
5850.5701	49.03	-7.92	74.00	Vertical	PASS
8275.0550	48.61	-3.33	74.00	Vertical	PASS
12316.8634	49.09	3.84	74.00	Vertical	PASS
16544.7089	49.76	5.06	74.00	Vertical	PASS

(Antenna Vertical, 3GHz to 18GHz)

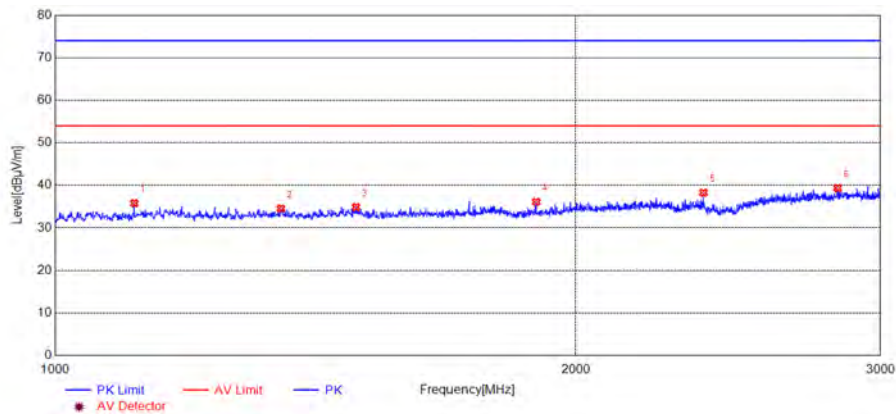
**8-DPSK Mode**

Plots for Channel 0



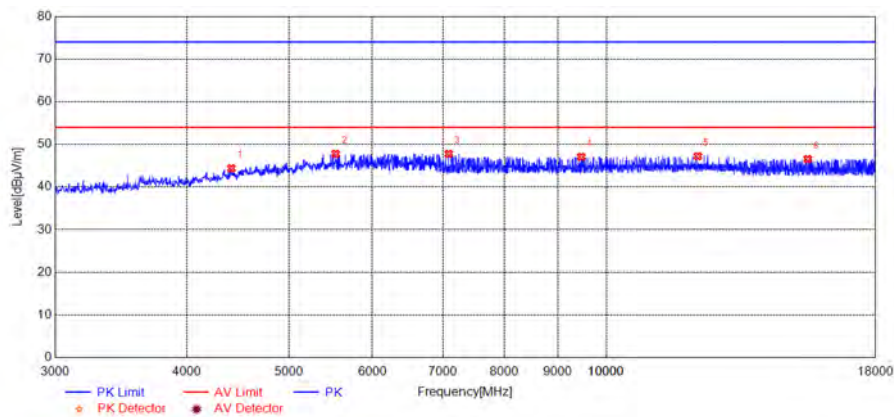
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	27.79	-30.81	40.00	Horizontal	PASS
98.9389	34.83	-31.20	43.50	Horizontal	PASS
106.7067	37.33	-31.14	43.50	Horizontal	PASS
197.0070	29.56	-32.17	43.50	Horizontal	PASS
360.1301	26.49	-27.24	46.00	Horizontal	PASS
760.1702	21.45	-20.40	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



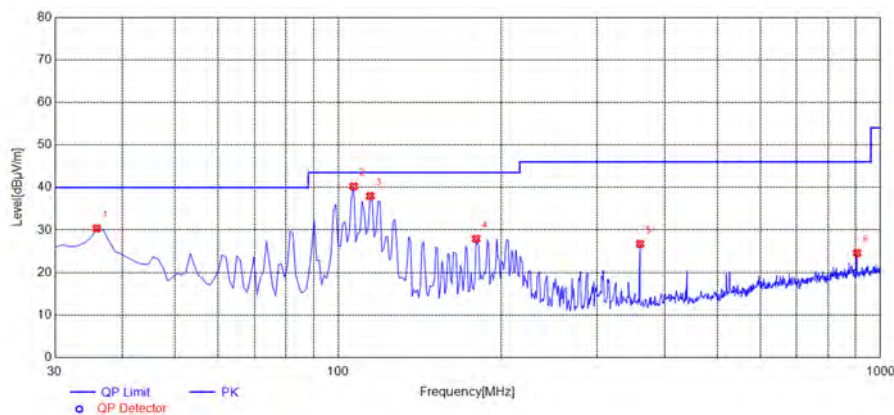
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1111.3705	35.80	-24.06	74.00	Horizontal	PASS
1350.7836	34.53	-23.18	74.00	Horizontal	PASS
1492.8309	34.90	-23.07	74.00	Horizontal	PASS
1897.6325	36.11	-22.66	74.00	Horizontal	PASS
2370.4568	38.27	-20.92	74.00	Horizontal	PASS
2833.2778	39.34	-18.60	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



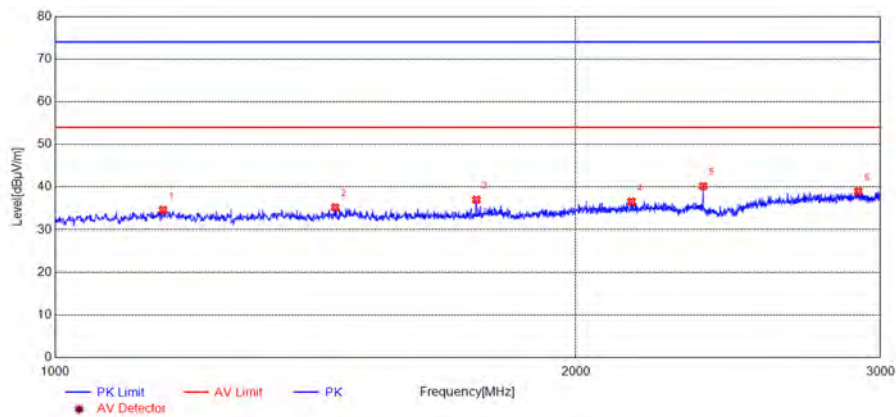
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4410.2821	44.38	-13.31	74.00	Horizontal	PASS
5538.5077	47.79	-8.54	74.00	Horizontal	PASS
7089.8180	47.78	-4.43	74.00	Horizontal	PASS
9466.2933	47.08	-0.76	74.00	Horizontal	PASS
12211.8424	47.21	4.23	74.00	Horizontal	PASS
15527.5055	46.55	5.38	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



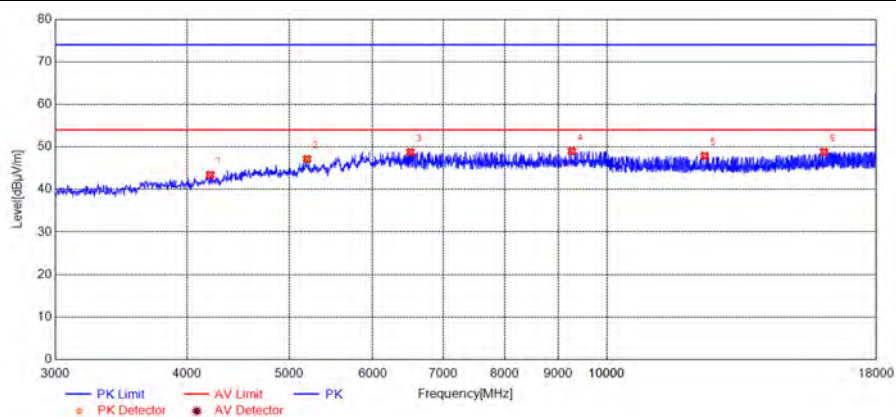
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	30.33	-30.81	40.00	Vertical	PASS
106.7067	40.26	-31.14	43.50	Vertical	PASS
114.4745	37.98	-32.29	43.50	Vertical	PASS
179.5295	27.92	-33.69	43.50	Vertical	PASS
360.1301	26.71	-27.24	46.00	Vertical	PASS
905.8158	24.60	-19.19	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1154.7182	34.59	-23.30	74.00	Vertical	PASS
1452.1507	35.19	-23.10	74.00	Vertical	PASS
1752.2508	37.00	-23.05	74.00	Vertical	PASS
2153.7179	36.58	-21.26	74.00	Vertical	PASS
2369.7899	40.21	-20.91	74.00	Vertical	PASS
2912.6375	38.97	-18.19	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 3GHz)

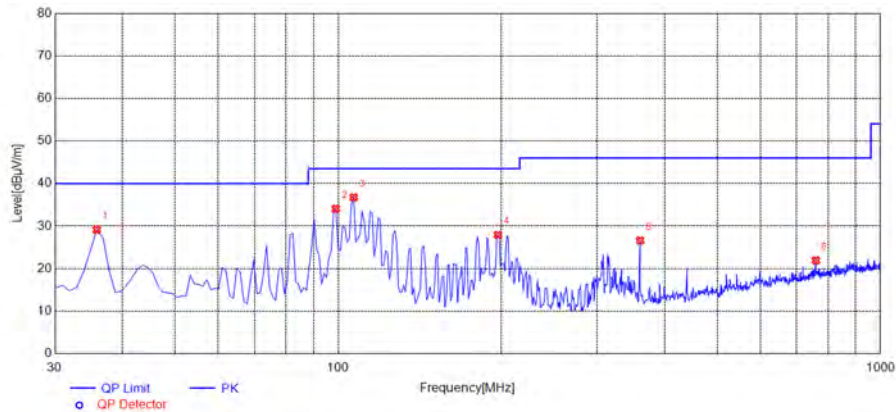


Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4209.2418	43.43	-14.01	74.00	Vertical	PASS
5199.4399	47.16	-9.87	74.00	Vertical	PASS
6516.7033	48.76	-6.56	74.00	Vertical	PASS
9268.2537	48.99	-0.40	74.00	Vertical	PASS
12379.8760	47.86	3.73	74.00	Vertical	PASS
16070.6141	48.83	5.09	74.00	Vertical	PASS

(Antenna Vertical, 3GHz to 18GHz)

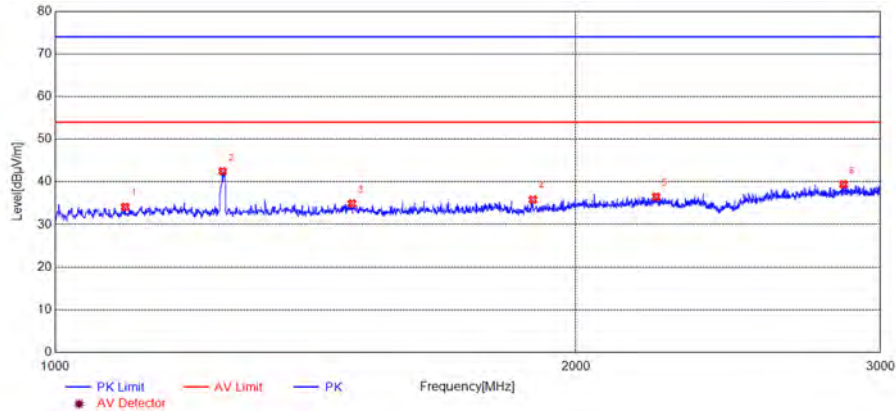


Plot for Channel 39



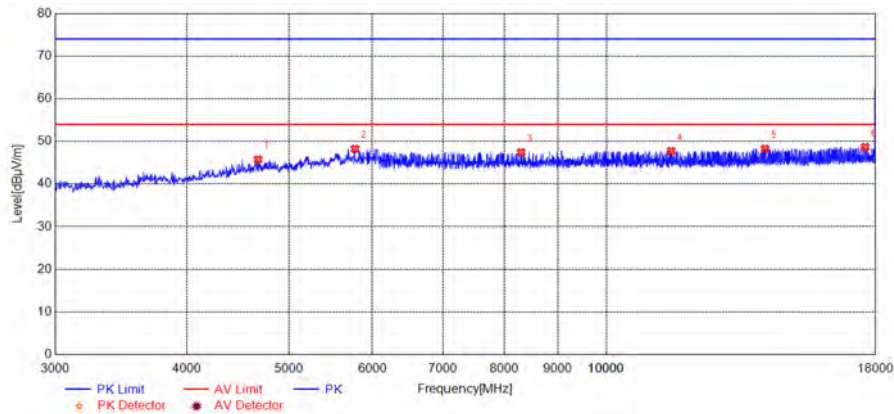
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	29.11	-30.81	40.00	Horizontal	PASS
98.9389	34.09	-31.20	43.50	Horizontal	PASS
106.7067	36.76	-31.14	43.50	Horizontal	PASS
197.0070	27.92	-32.17	43.50	Horizontal	PASS
360.1301	26.62	-27.24	46.00	Horizontal	PASS
760.1702	21.92	-20.40	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



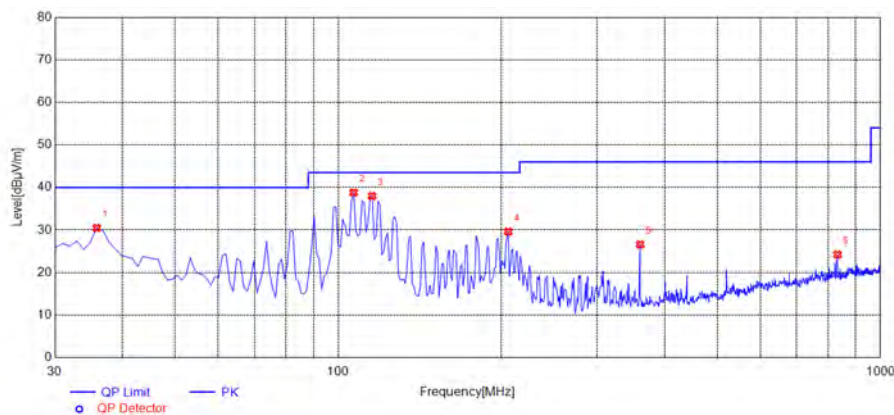
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1098.0327	34.13	-24.29	74.00	Horizontal	PASS
1250.0834	42.47	-23.95	74.00	Horizontal	PASS
1484.8283	34.92	-23.08	74.00	Horizontal	PASS
1888.9630	35.81	-22.78	74.00	Horizontal	PASS
2225.7419	36.50	-21.08	74.00	Horizontal	PASS
2856.6189	39.38	-18.39	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



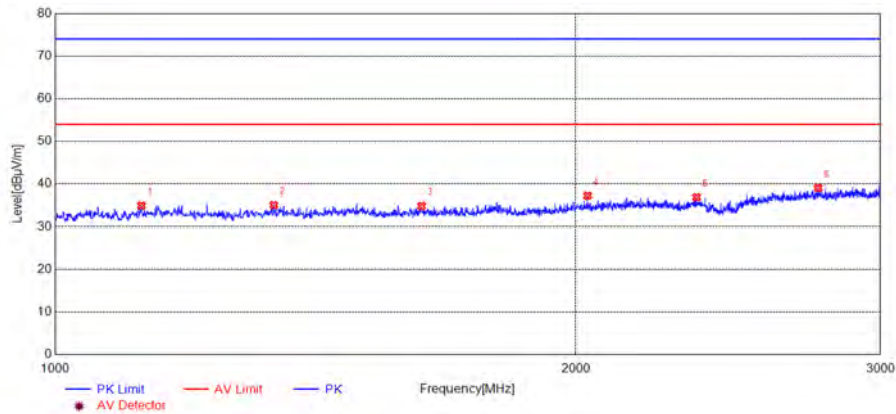
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4674.3349	45.73	-11.89	74.00	Horizontal	PASS
5775.5551	48.24	-8.39	74.00	Horizontal	PASS
8302.0604	47.44	-2.87	74.00	Horizontal	PASS
11521.7043	47.72	2.65	74.00	Horizontal	PASS
14144.2288	48.27	6.18	74.00	Horizontal	PASS
17600.9202	48.66	9.53	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



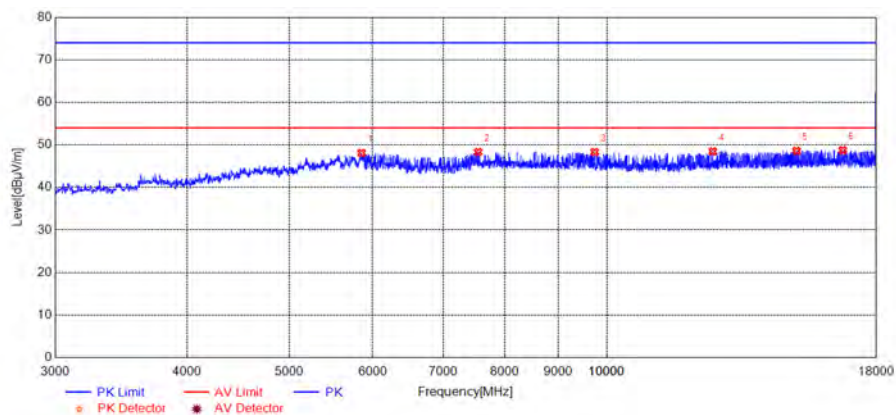
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	30.48	-30.81	40.00	Vertical	PASS
106.7067	38.81	-31.14	43.50	Vertical	PASS
115.4454	37.98	-32.53	43.50	Vertical	PASS
205.7457	29.62	-31.97	43.50	Vertical	PASS
360.1301	26.61	-27.24	46.00	Vertical	PASS
832.9930	24.23	-19.86	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1122.0407	34.95	-23.84	74.00	Vertical	PASS
1338.1127	35.04	-23.30	74.00	Vertical	PASS
1628.8763	34.84	-23.21	74.00	Vertical	PASS
2031.6772	37.26	-21.66	74.00	Vertical	PASS
2348.4495	36.91	-20.81	74.00	Vertical	PASS
2761.2538	39.07	-18.69	74.00	Vertical	PASS

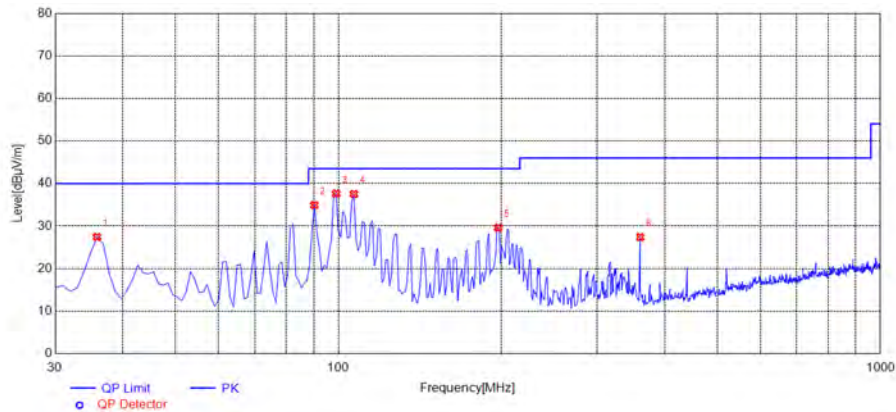
(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
5856.5713	48.10	-7.96	74.00	Vertical	PASS
7551.9104	48.31	-4.07	74.00	Vertical	PASS
9739.3479	48.32	0.03	74.00	Vertical	PASS
12604.9210	48.47	3.88	74.00	Vertical	PASS
15131.4263	48.63	6.75	74.00	Vertical	PASS
16733.7467	48.76	6.82	74.00	Vertical	PASS

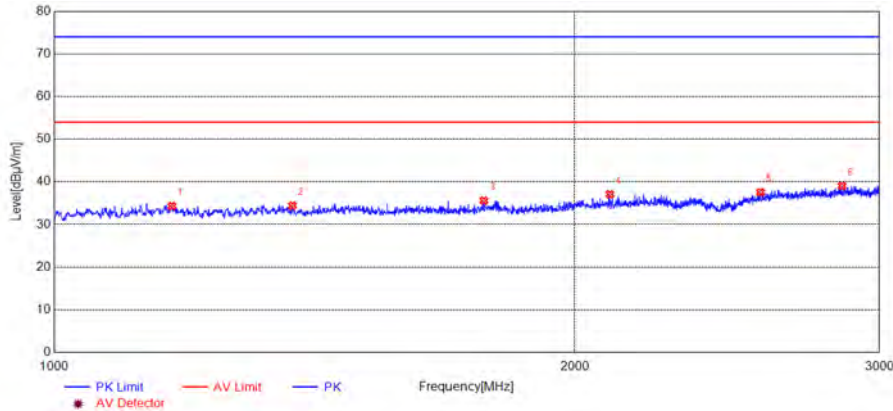
(Antenna Vertical, 3GHz to 18GHz)

Plot for Channel 78



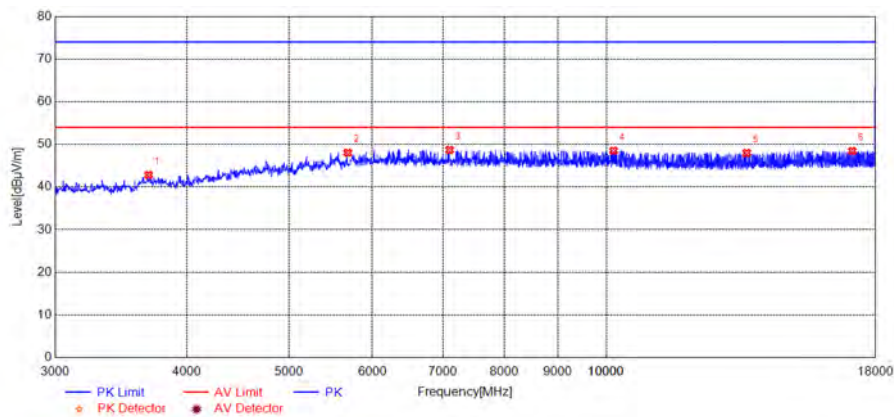
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	27.45	-30.81	40.00	Horizontal	PASS
90.2002	34.93	-32.74	43.50	Horizontal	PASS
98.9389	37.63	-31.20	43.50	Horizontal	PASS
106.7067	37.54	-31.14	43.50	Horizontal	PASS
197.0070	29.62	-32.17	43.50	Horizontal	PASS
360.1301	27.40	-27.24	46.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



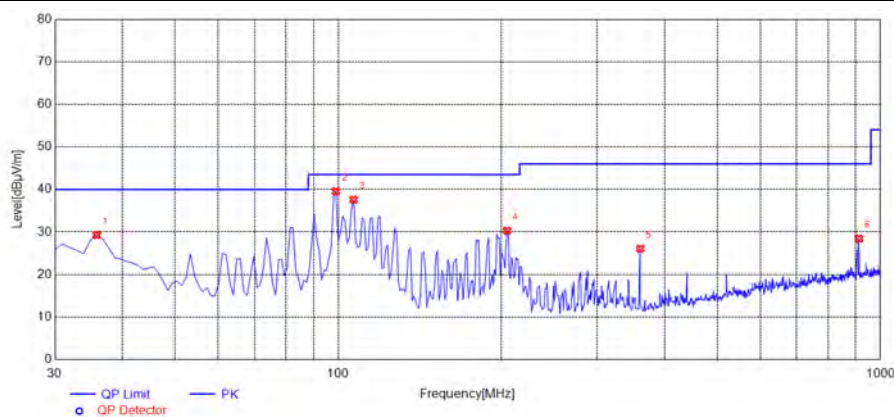
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1170.0567	34.33	-23.44	74.00	Horizontal	PASS
1373.4578	34.41	-23.49	74.00	Horizontal	PASS
1772.2574	35.60	-22.76	74.00	Horizontal	PASS
2095.6986	37.08	-21.57	74.00	Horizontal	PASS
2561.1871	37.53	-20.11	74.00	Horizontal	PASS
2853.9513	39.06	-18.41	74.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 3GHz)



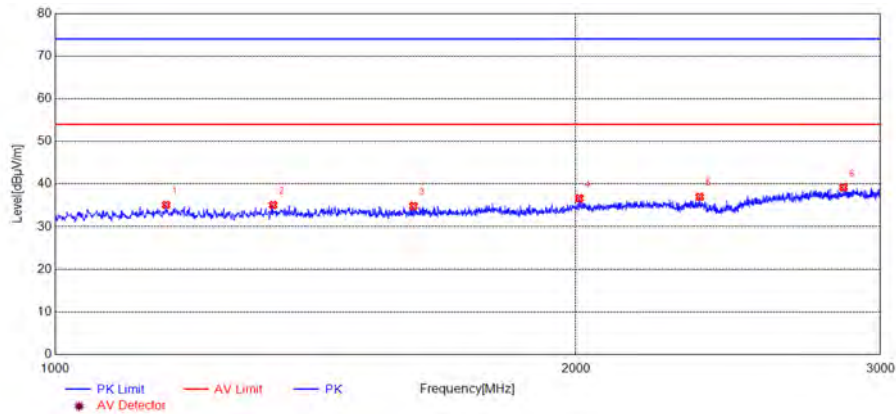
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
3681.1362	42.83	-16.19	74.00	Horizontal	PASS
5685.5371	48.06	-9.17	74.00	Horizontal	PASS
7101.8204	48.70	-4.25	74.00	Horizontal	PASS
10159.4319	48.52	0.75	74.00	Horizontal	PASS
13589.1178	47.98	7.01	74.00	Horizontal	PASS
17111.8224	48.46	7.36	74.00	Horizontal	PASS

(Antenna Horizontal, 3GHz to 18GHz)



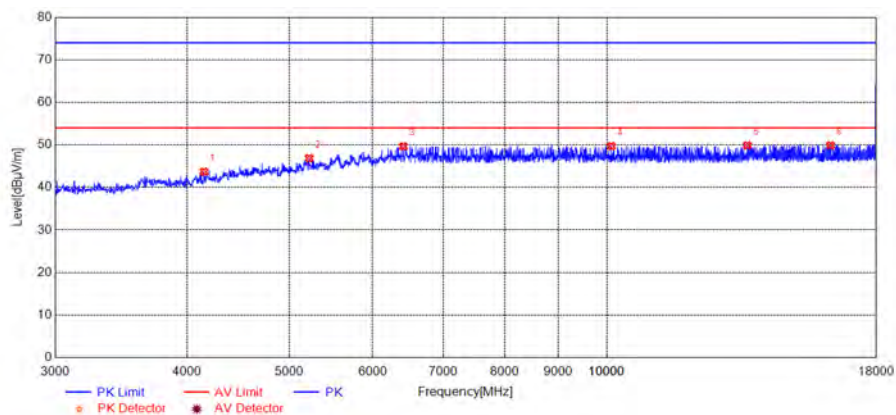
Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
35.8258	29.59	-30.81	40.00	Vertical	PASS
98.9389	38.31	-31.20	43.50	Vertical	PASS
106.7067	38.44	-31.14	43.50	Vertical	PASS
197.9780	30.20	-32.26	43.50	Vertical	PASS
360.1301	25.89	-27.24	46.00	Vertical	PASS
760.1702	20.90	-20.40	46.00	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
1159.3865	35.11	-23.35	74.00	Vertical	PASS
1336.7789	35.08	-23.32	74.00	Vertical	PASS
1611.5372	34.85	-23.20	74.00	Vertical	PASS
2009.6699	36.67	-21.61	74.00	Vertical	PASS
2359.1197	36.99	-20.84	74.00	Vertical	PASS
2855.9520	39.22	-18.39	74.00	Vertical	PASS

(Antenna Vertical, 1GHz to 3GHz)



Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Antenna	Verdict
4152.2304	43.71	-14.50	74.00	Vertical	PASS
5223.4447	46.89	-10.04	74.00	Vertical	PASS
6414.6829	49.66	-6.73	74.00	Vertical	PASS
10102.4205	49.71	0.36	74.00	Vertical	PASS
13592.1184	49.92	7.16	74.00	Vertical	PASS
16295.6591	49.91	5.69	74.00	Vertical	PASS

(Antenna Vertical, 3GHz to 18GHz)

END OF REPORT