



REPORT No.: SZ24100040W01

TEST REPORT

APPLICANT : NiceRF Wireless Technology LTD.

PRODUCT NAME : Wireless voice intercom module

MODEL NAME : SA618F22-C1

BRAND NAME : G-NiceRF

FCC ID : 2AD66-SA618F22-C1

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2024-10-10

TEST DATE : 2024-10-11 to 2024-10-24

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MORLAB

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Change History		
Version	Date	Reason for change
1.0	2025-01-15	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	N/A	Duty Cycle of Test Signal	Oct. 15, 2024	Li Xinpeng	PASS	No deviation
3	15.247(b)	Maximum Peak Conducted Output Power	Oct. 15, 2024	Li Xinpeng	PASS	No deviation
4	15.247(b)	Maximum Average Conducted Output Power	Oct. 15, 2024	Li Xinpeng	PASS	No deviation
5	15.247(a)	Bandwidth	Oct. 15, 2024	Li Xinpeng	PASS	No deviation
6	15.247(d)	Conducted Spurious Emission and Band Edge	Oct. 22, 2024	Li Xinpeng	PASS	No deviation
7	15.247(e)	Power Spectral Density	Oct. 15, 2024	Li Xinpeng	PASS	No deviation
8	15.207	Conducted Emission	N/A	N/A	N/A ^{Note1}	N/A
9	15.209, 15.247(d)	Radiated Emission	Oct. 25, 2024	Yuan Zihong	PASS	No deviation

Note 1: Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

Note 1: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013 and KDB 558074 D01 v05r02.

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 Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY5347083 6	N9010A	Agilent	2024.02.19	2025.02.18
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 List of Software Used

Description	Manufacturer	Software Version
Test System	MaiWei	2.0.0.0
TS+ -[JS32-RE]	Tonscend	V2.5.0.6

**1.2.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L38 02	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L32 03	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	N/A	N/A
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	N/A	N/A
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	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
Peak Output Power	$\pm 2.22\text{dB}$	Confidence levels of 95%
Power Spectral Density	$\pm 2.22\text{dB}$	Confidence levels of 95%
Bandwidth	$\pm 5\%$	Confidence levels of 95%
Conducted Spurious Emission	$\pm 2.77\text{dB}$	Confidence levels of 95%
Restricted Frequency Bands	$\pm 5\%$	Confidence levels of 95%
Radiated Emission	$\pm 2.95\text{dB}$	Confidence levels of 95%
Conducted Emission	$\pm 2.44\text{dB}$	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	NiceRF Wireless Technology LTD.
Applicant Address	309-314, Bldg A, Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China
Manufacturer	NiceRF Wireless Technology LTD.
Manufacturer Address	309-314, Bldg A, Hongdu business building, Xin'an street, Zone 43, Baoan Dist, Shenzhen 518101, China

2.2. Information of EUT

Product Name:	Wireless voice intercom module
Sample No.:	2#, 7#
Hardware Version:	V1.0
Software Version:	V1.0
Equipment Type:	LoRa
Transmitter Bandwidth:	500kHz
Operating Frequency Range:	902MHz–928MHz
Antenna Type:	Rod Antenna
Antenna Gain:	-4.28dBi

Note 1: We use the dedicated software to control the EUT continuous transmission.

Note 2: 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)
1	902.125	9	910.125
2	903.125	10	911.125
3	904.125	11	912.125
4	905.125	12	913.125
5	906.125	13	914.125
6	907.125	14	915.125
7	908.125	15	916.125
8	909.125	16	917.125

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

2.4. Operation and Transmitter Power Level Setting

The EUT was tested while in a continues transmitter/receiver mode under the control of tool which is provided by manufacturer, all the items of transmitter were tested under the power setting as below:

Modulation	Power Setting
LoRa	6

2.5. Test Configuration of EUT

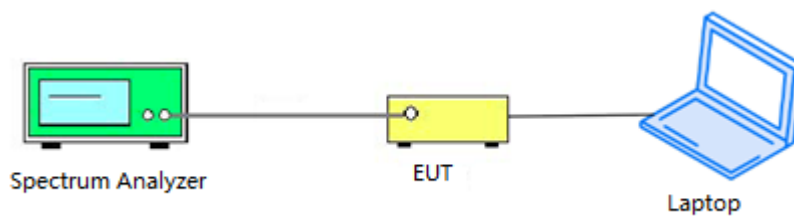
Test mode is used to control the EUT under the maximum power level during test.

2.6. Test Conditions

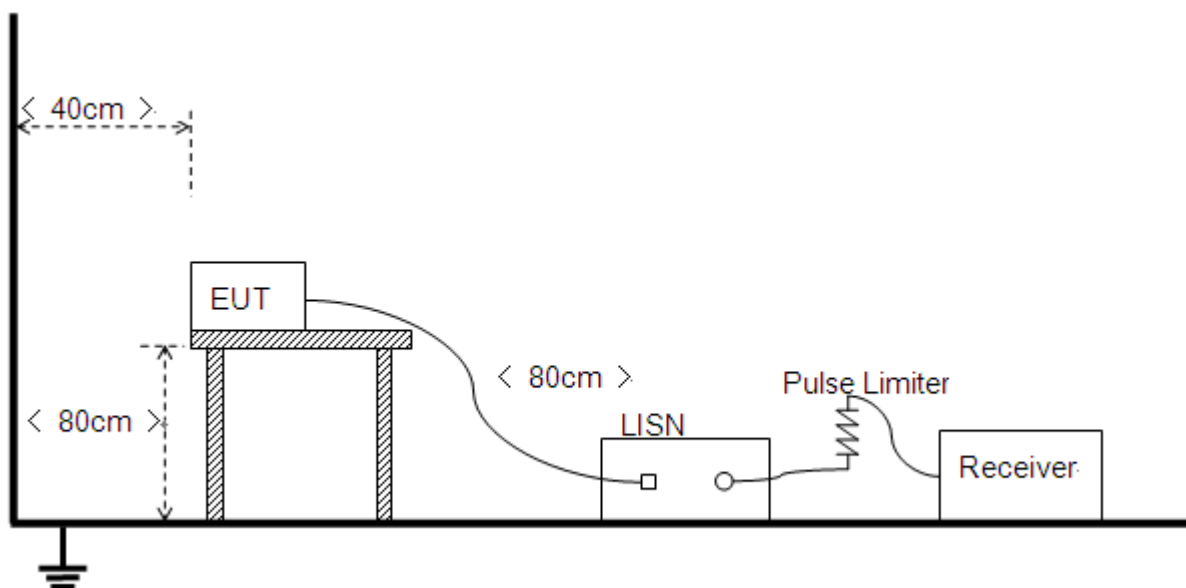
Temperature (°C)	15-35
Relative Humidity (%)	30-60
Atmospheric Pressure (kPa)	86-106

2.7. Test Setup Layout Diagram

2.7.1. Conducted Measurement

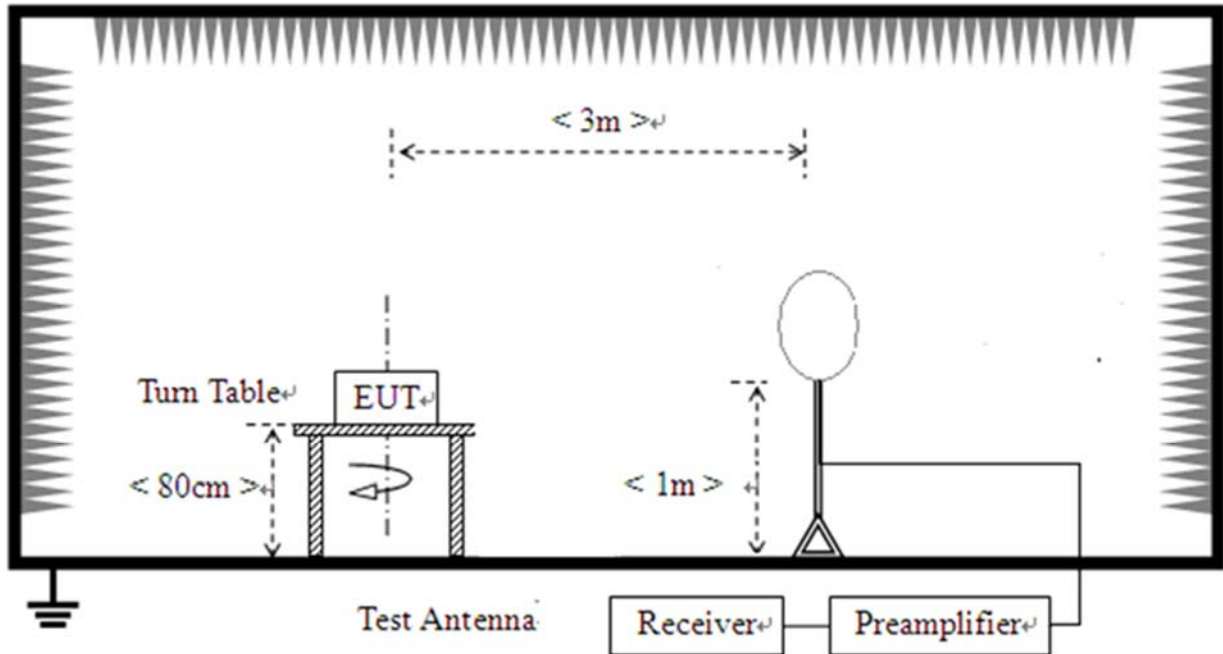


2.7.2. Conducted Emission Measurement

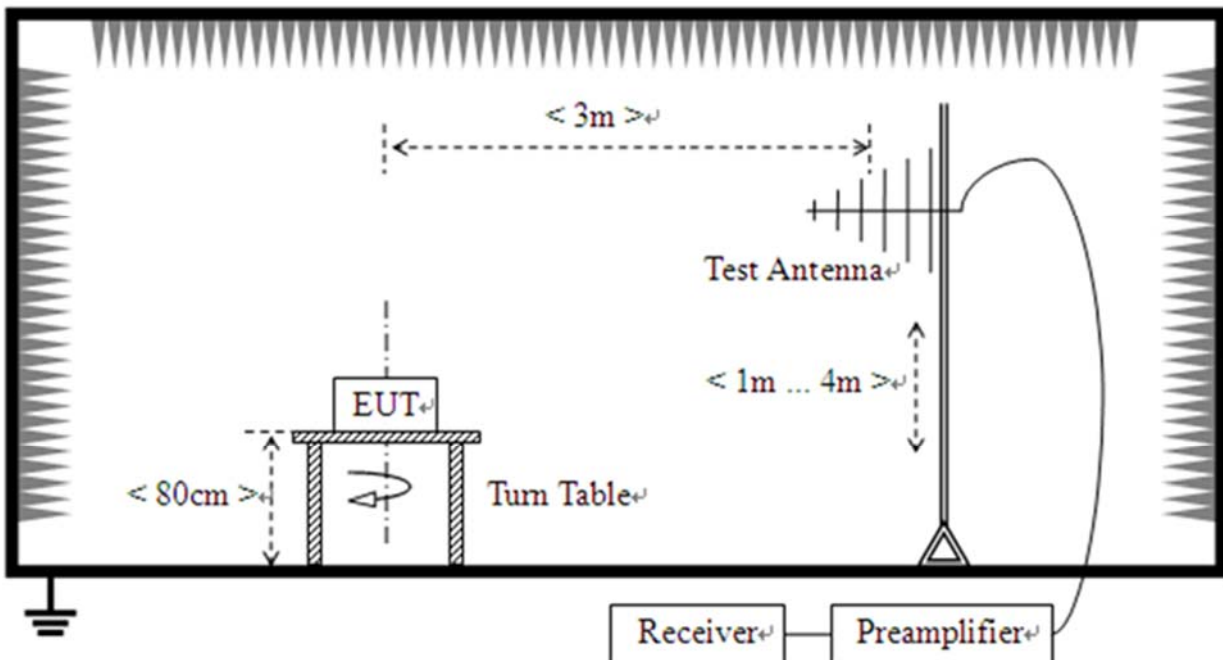


2.7.3.Radiation Measurement

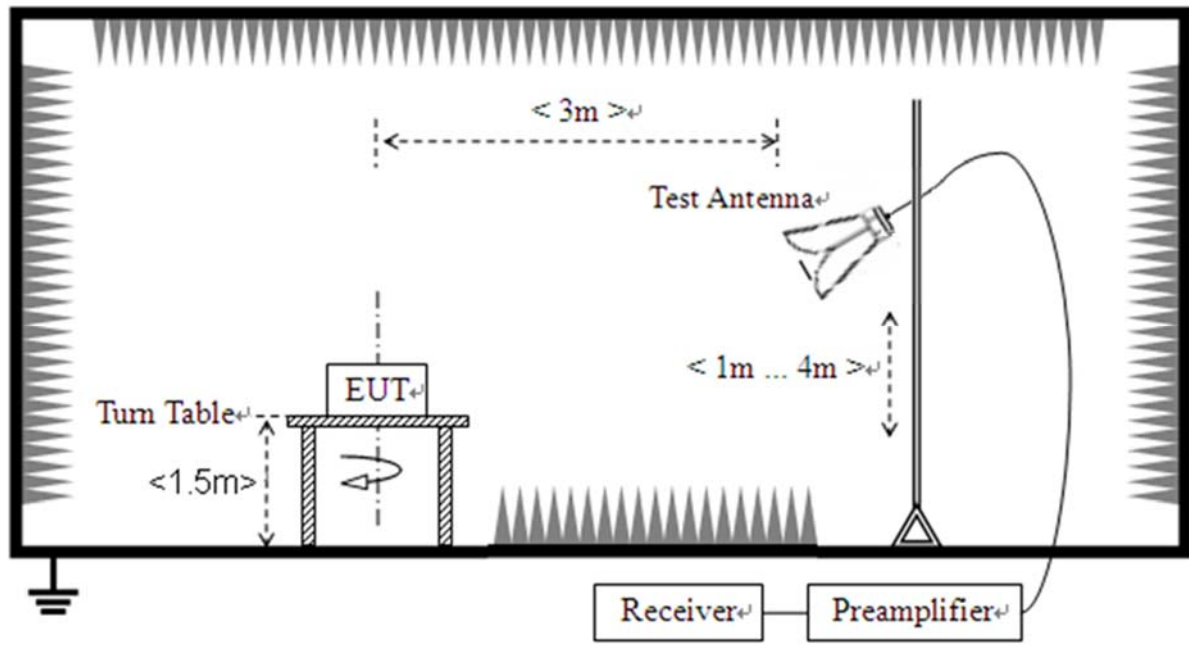
1) For radiated emissions from 9kHz to 30MHz



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

Antenna location	Antenna Type	Coupling Method
☐ Internal ☒ External	☐ FPC Antenna ☐ Spring Antenna ☐ Ceramic Antenna ☐ Integrated Antenna ☐ Dipole Antenna ☐ PCB Antenna ☐ PIFA Antenna ☒ Rod Antenna	☐ I-PEX Connector ☐ SMA Connector ☒ RP-SMA Connector ☐ Metal Shrapnel ☐ Layout

3.2. Duty Cycle of Test Signal

3.2.1. 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.

3.2.2. Test Result

Refer to Annex A.1 in this report.



3.3. Maximum Peak Conducted Output Power

3.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

3.3.2. Test Procedures

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

3.3.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.3.4. Test Result

Refer to Annex A.2 in this report.



3.4. Maximum Average Conducted Output Power

3.4.1. Requirement

According to FCC section 15.247(b)(3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum average conducted output power of the intentional radiator shall not exceed 1 Watt.

3.4.2. Test Procedures

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

3.4.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.4.4. Test Result

Refer to Annex A.3 in this report.



3.5.6 dB Bandwidth

3.5.1.Requirement

According to FCC section 15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

3.5.1.Test Procedures

The steps for the first option are as follows:

- a) Set analyzer center frequency to channel center frequency
- b) Set RBW to 100kHz
- c) Set VBW to 300kHz
- d) Detector = peak.
- e) Trace mode = max hold
- f) Sweep time = auto couple
- g) Allow the trace to fully stabilize
- h) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., $RBW = 100\text{ kHz}$, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be $\geq 6\text{ dB}$.

3.5.2.Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.5.3.Test Result

Refer to Annex A.4 in this report.



3.6. Conducted Spurious Emissions and Band Edge

3.6.1. 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.

3.6.2. Test Procedures

KDB 558074 Section 8.5 and 8.7 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.5 and A.6 in this report.



3.7. Power Spectral Density

3.7.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.7.2. Test Procedures

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- a) Set analyzer center frequency to channel center frequency
- b) Set span to 1.5 times DTS
- c) Set RBW to 3kHz
- d) Set VBW to 10kHz
- e) Detector = peak
- f) Sweep time = auto couple
- g) Trace mode = max hold
- h) Allow trace to fully stabilize
- i) Use the peak marker function to determine the maximum amplitude level within the RBW

3.7.3. Test Setup Layout

Refer to chapter 2.6.1 in this report.

3.7.4. Test Result

Refer to Annex A.7 in this report.

3.8. Conducted Emission

3.8.1. 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.

3.8.2. 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.

3.8.3. Test Setup Layout

Refer to chapter 2.6.2 in this report.

3.8.4. Test Result

This test case does not apply this kind of EUT.

3.9. Radiated Emission

3.9.1. 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).



3.9.2.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.

3.9.3.Test Setup Layout

Refer to chapter 2.6.3 in this report.

3.9.4.Test Result

Refer to Annex A.8 in this report.



Annex A Test Data and Result

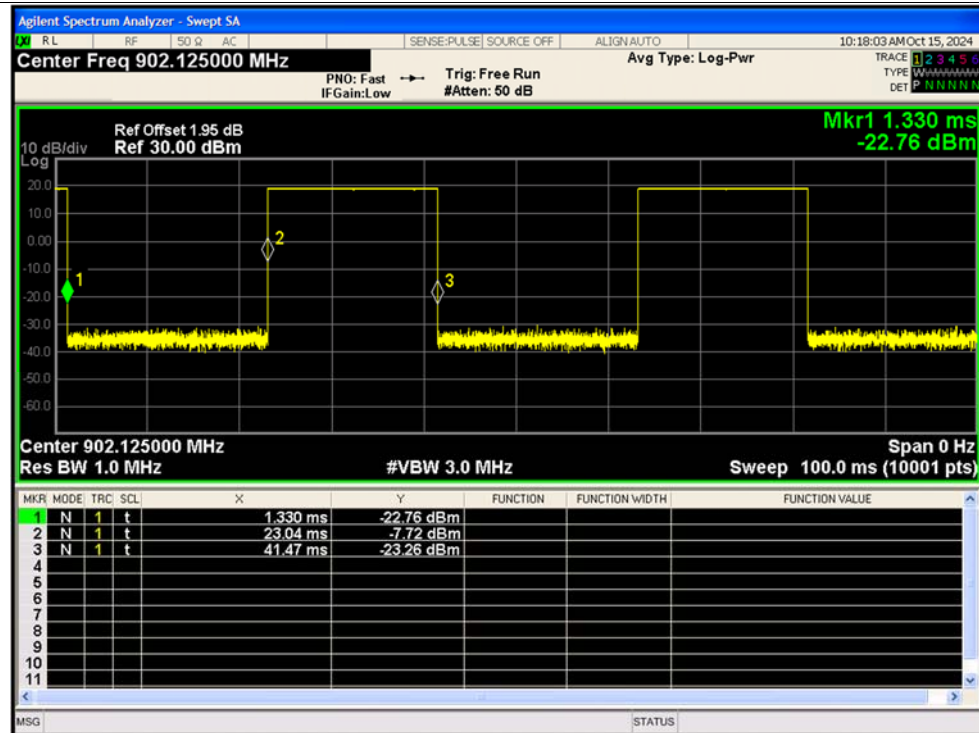
A.1. Duty Cycle of Test Signal

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	900M	902.125	Ant1	45.91	3.38	0.05
NVNT	900M	909.125	Ant1	45.9	3.38	0.05
NVNT	900M	917.125	Ant1	45.89	3.38	0.05

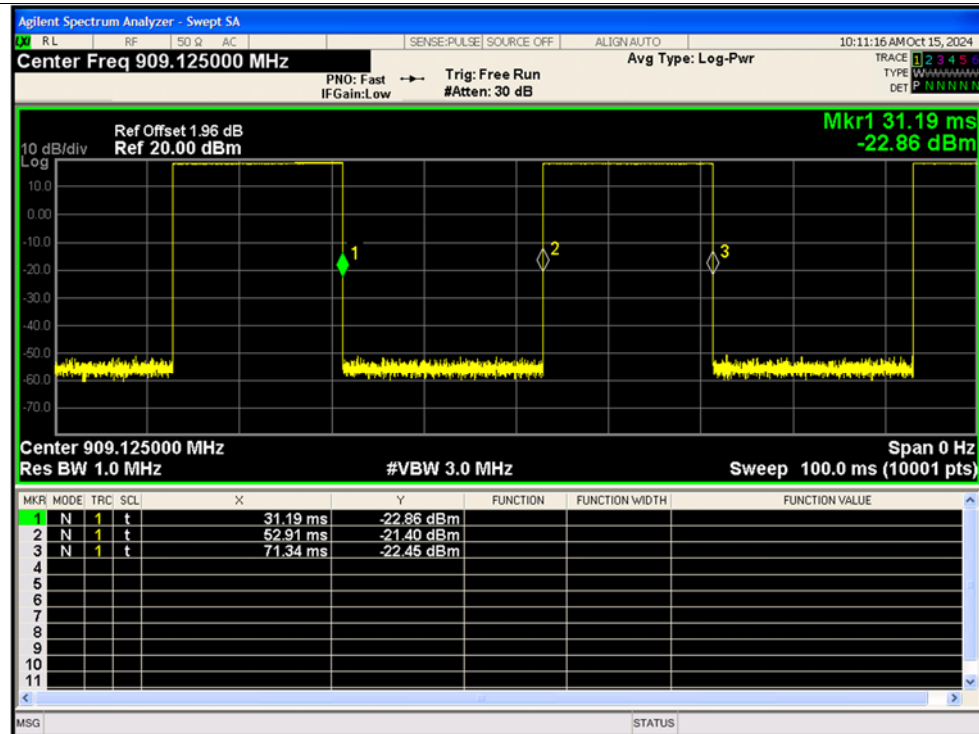


Test Graphs

Duty Cycle NVNT 900M 902.125MHz Ant1

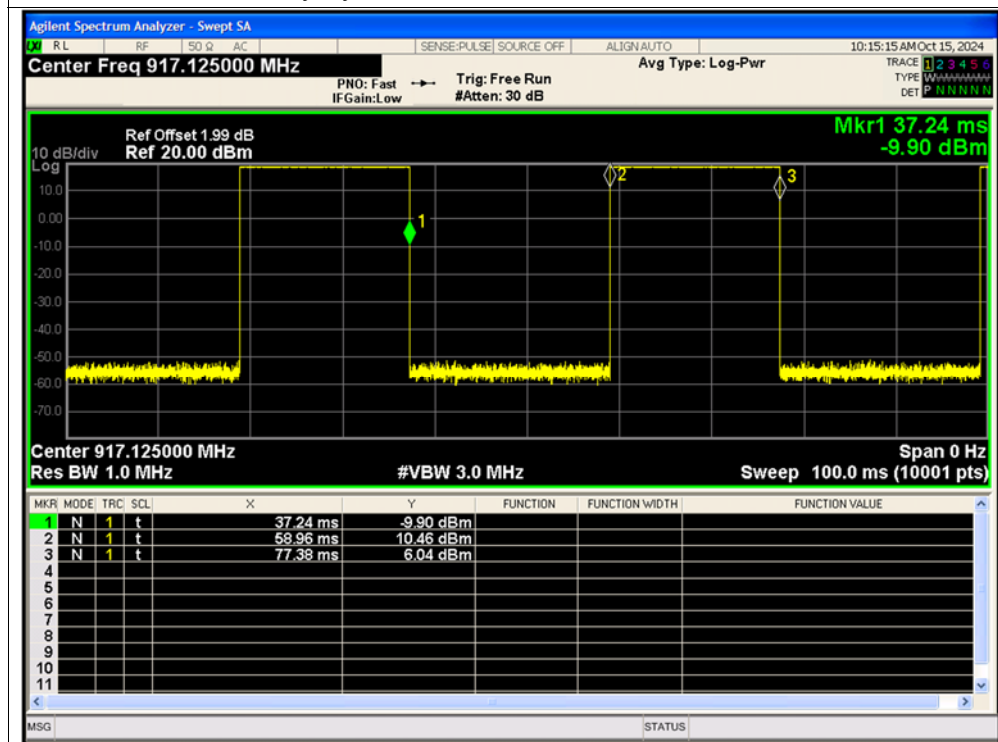


Duty Cycle NVNT 900M 909.125MHz Ant1





Duty Cycle NVNT 900M 917.125MHz Ant1





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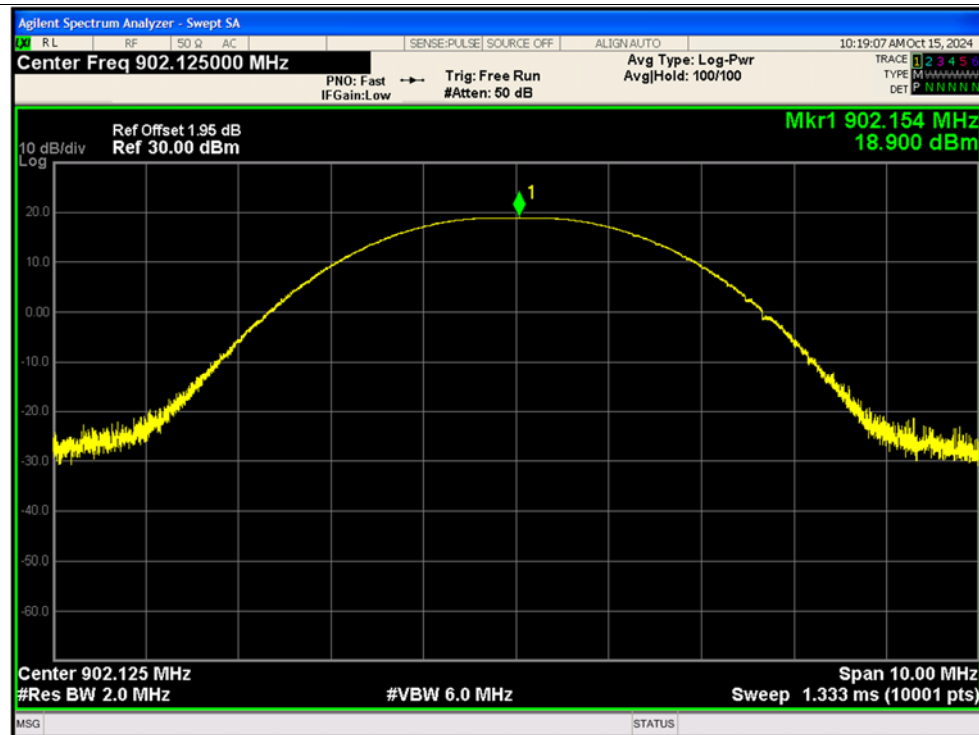
A.2. Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	900M	902.125	Ant1	18.9	0	18.9	0.07762	30	Pass
NVNT	900M	909.125	Ant1	18.85	0	18.85	0.07674	30	Pass
NVNT	900M	917.125	Ant1	18.55	0	18.55	0.07161	30	Pass

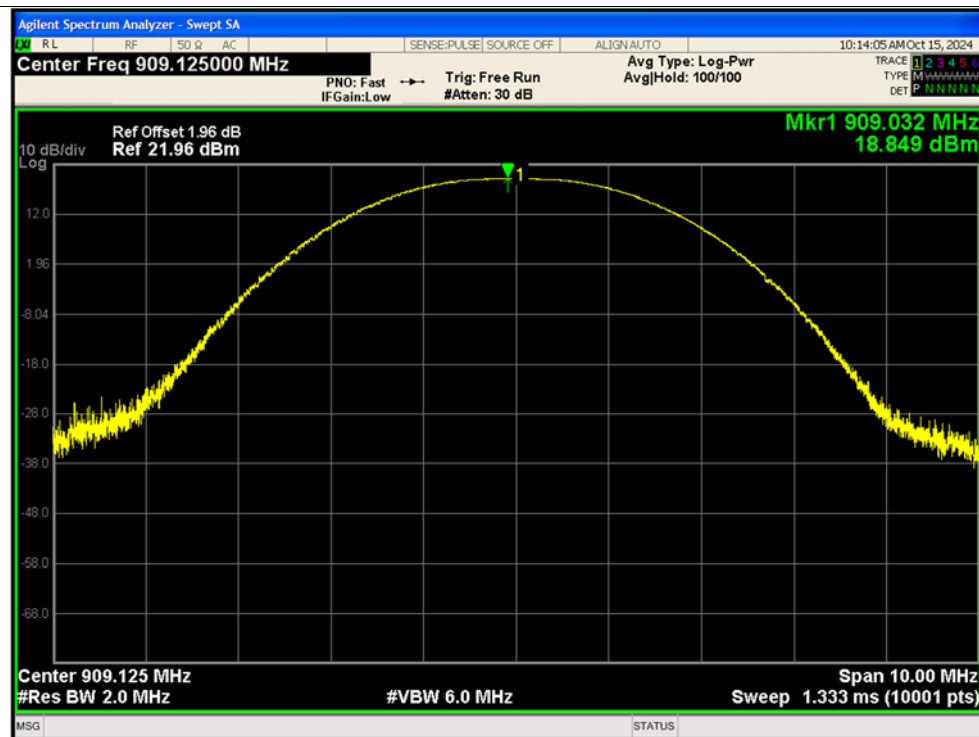


Test Graphs

Peak Power NVNT 900M 902.125MHz Ant1

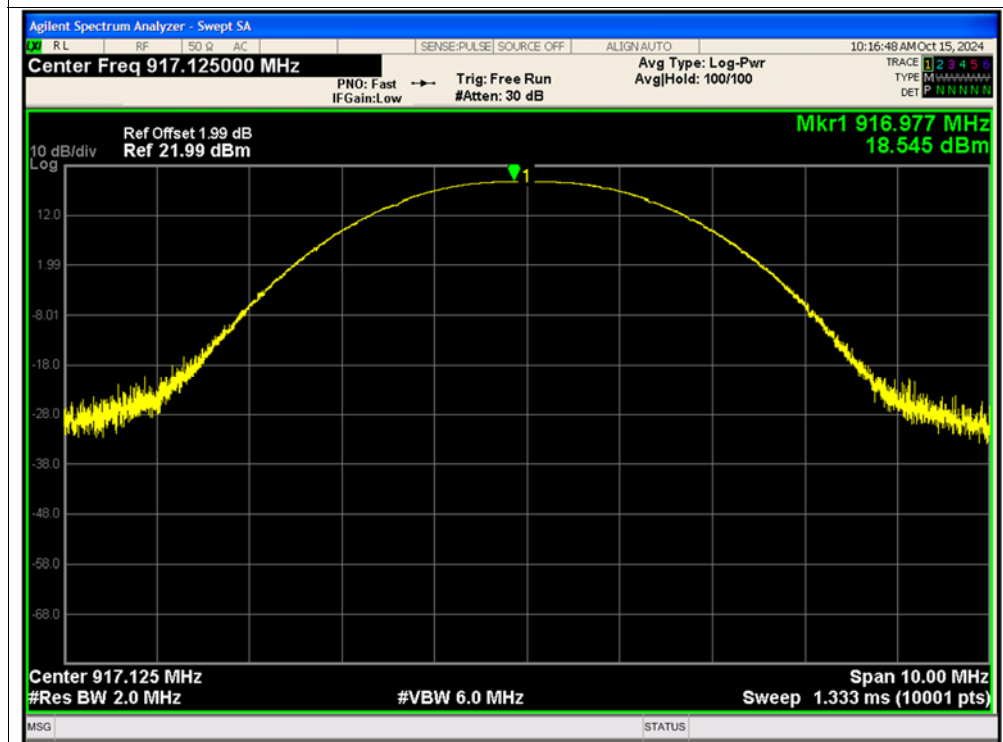


Peak Power NVNT 900M 909.125MHz Ant1





Peak Power NVNT 900M 917.125MHz Ant1





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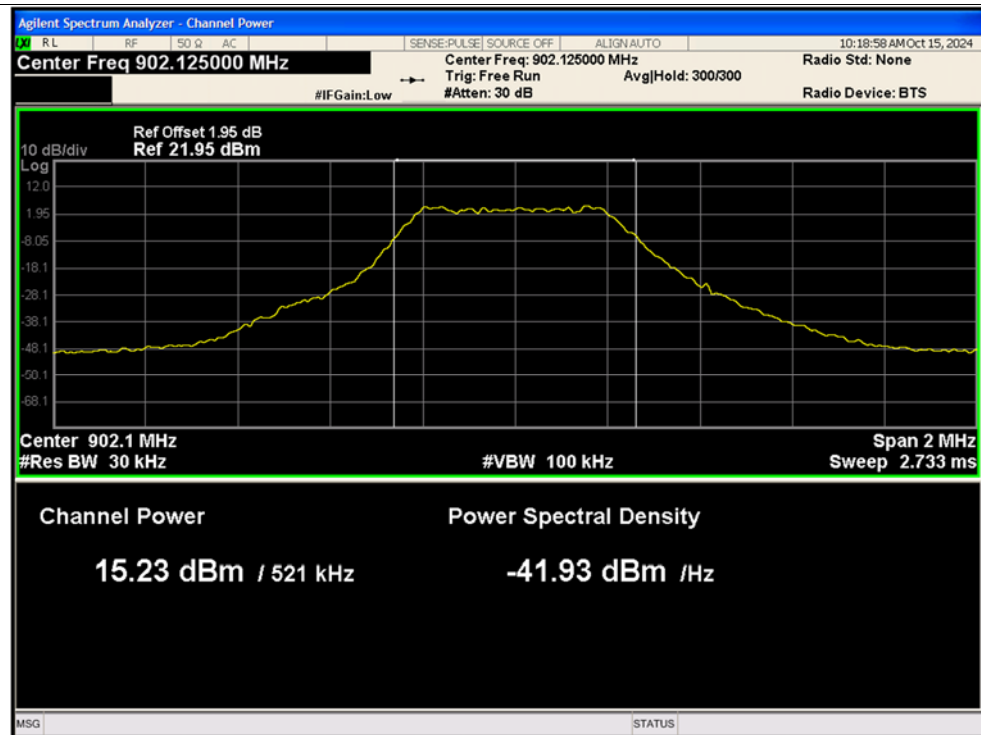
A.3. Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (W)	Limit Conducted (dBm)	Verdict
NVNT	900M	902.125	Ant1	15.23	3.38	18.61	0.07261	30	Pass
NVNT	900M	909.125	Ant1	15.39	3.38	18.77	0.07534	30	Pass
NVNT	900M	917.125	Ant1	15.13	3.38	18.51	0.07096	30	Pass

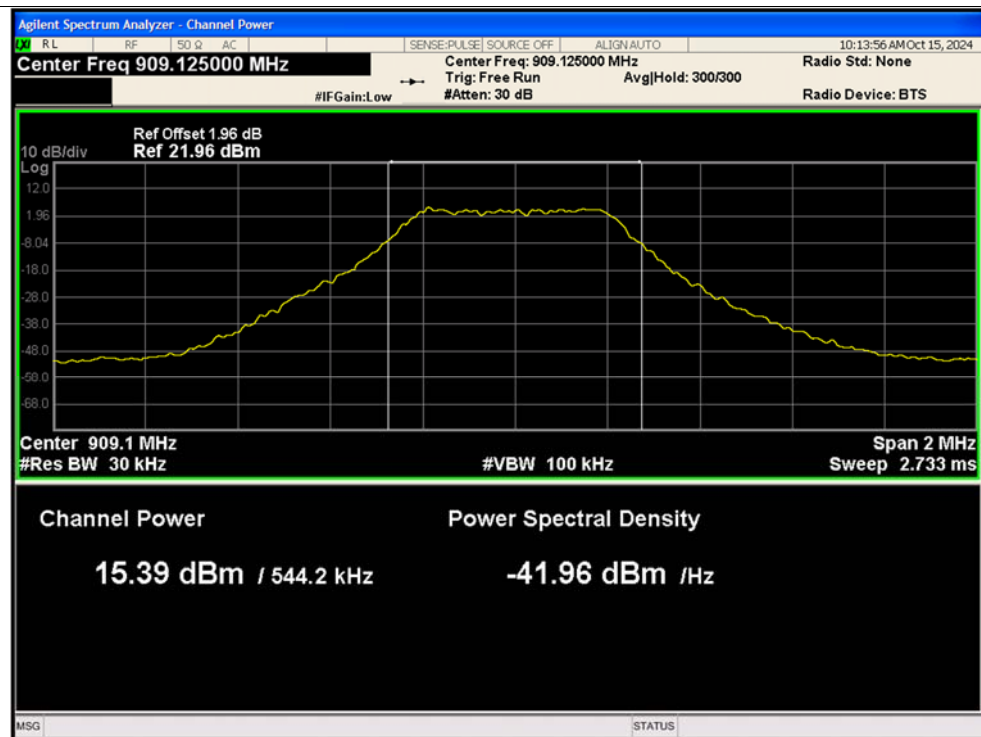


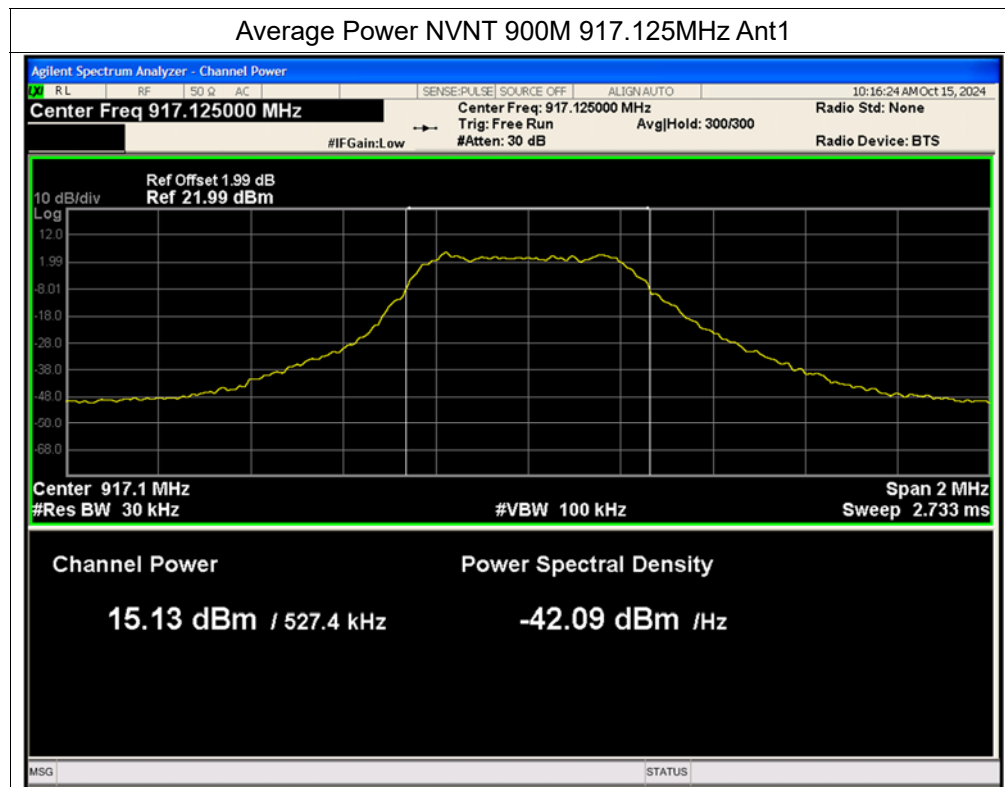
Test Graphs

Average Power NVNT 900M 902.125MHz Ant1



Average Power NVNT 900M 909.125MHz Ant1





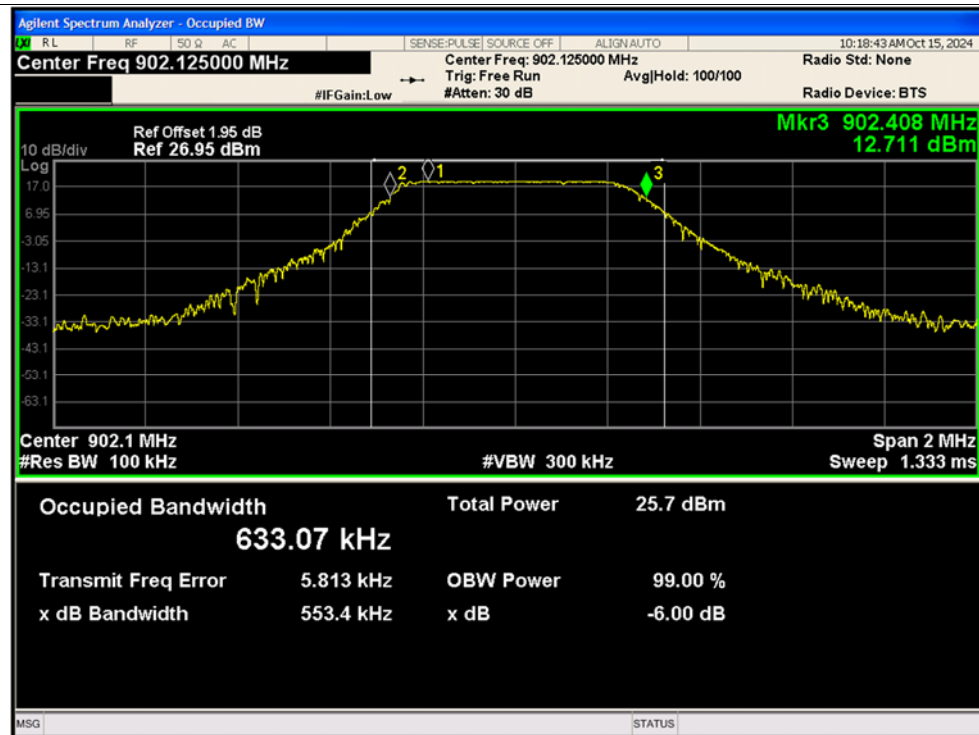
**A.4. 6 dB Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	900M	902.125	Ant1	0.553	0.5	Pass
NVNT	900M	909.125	Ant1	0.574	0.5	Pass
NVNT	900M	917.125	Ant1	0.564	0.5	Pass

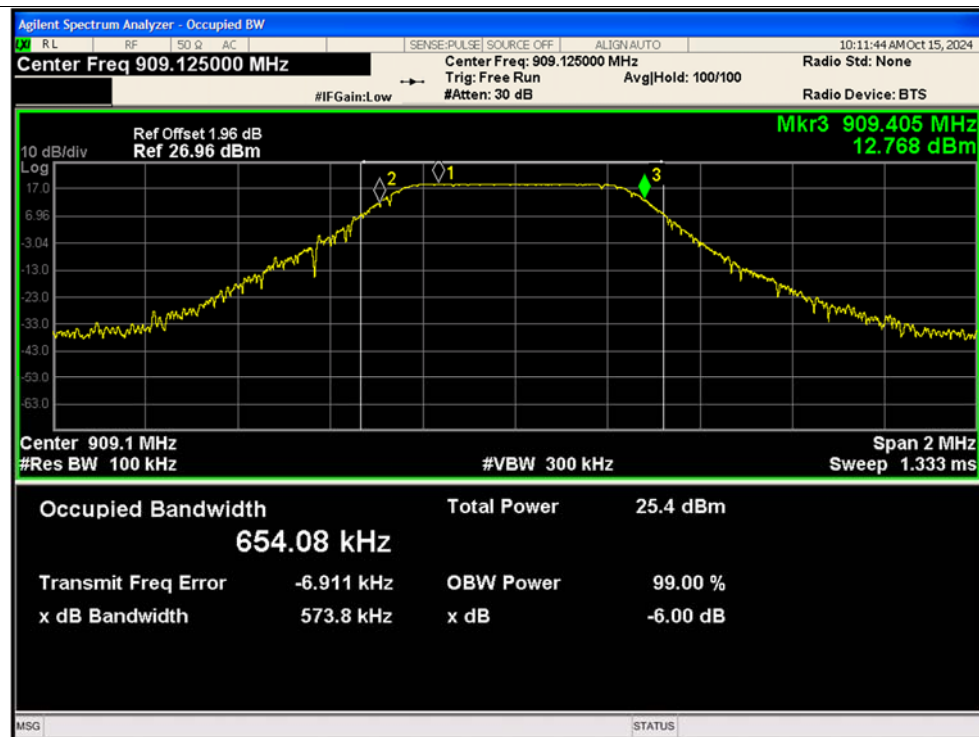


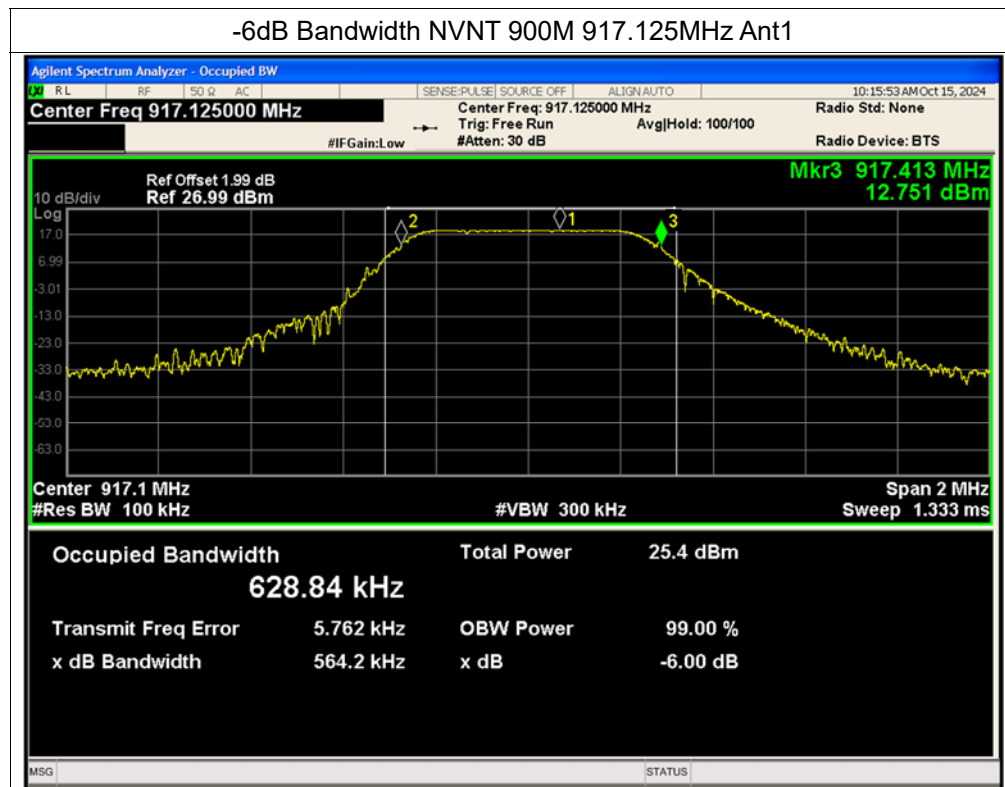
Test Graphs

-6dB Bandwidth NVNT 900M 902.125MHz Ant1



-6dB Bandwidth NVNT 900M 909.125MHz Ant1



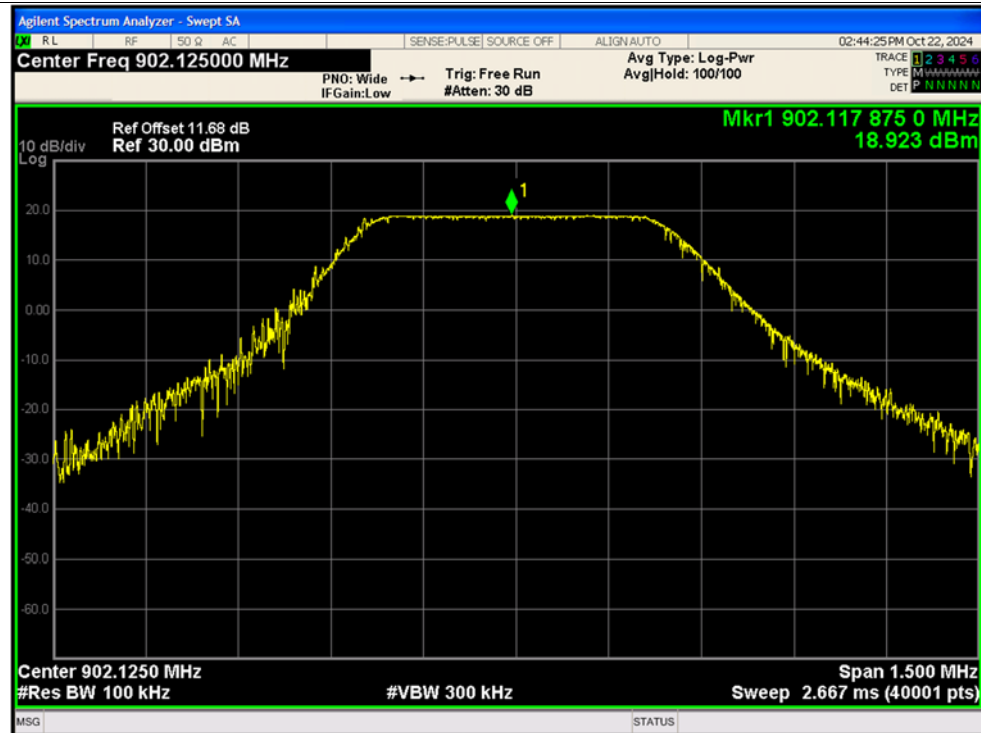


**A.5. Conducted Spurious Emissions**

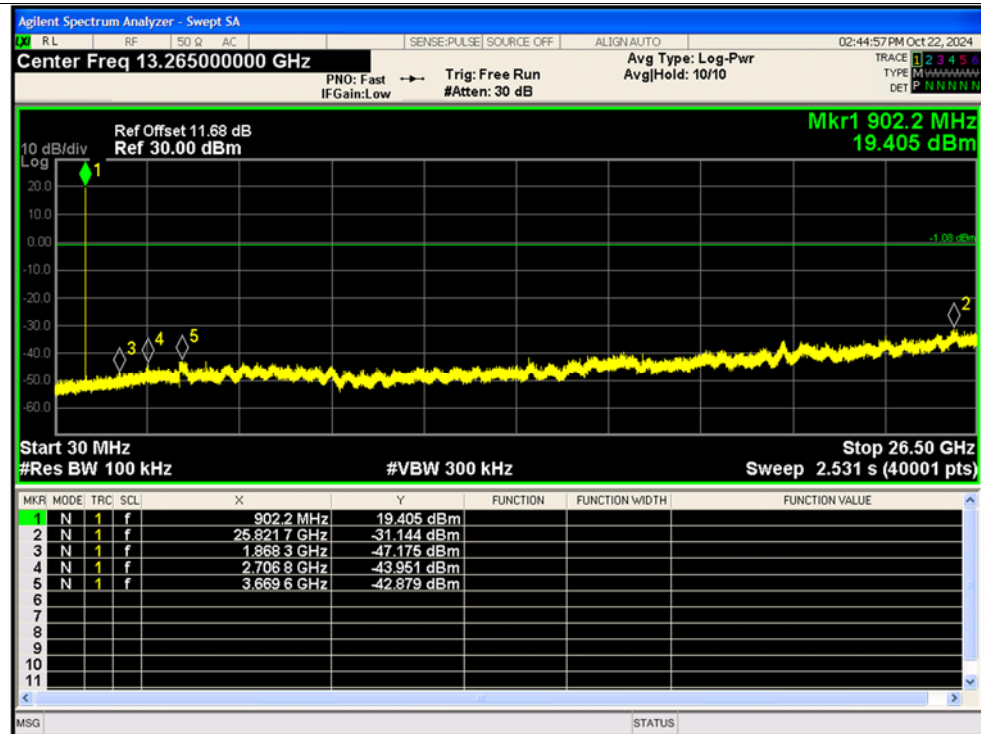
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	900M	902.125	Ant1	-50.06	-20	Pass
NVNT	900M	909.125	Ant1	-49.2	-20	Pass
NVNT	900M	917.125	Ant1	-48.96	-20	Pass

Test Graphs

Tx. Spurious NVNT 900M 902.125MHz Ant1 Ref

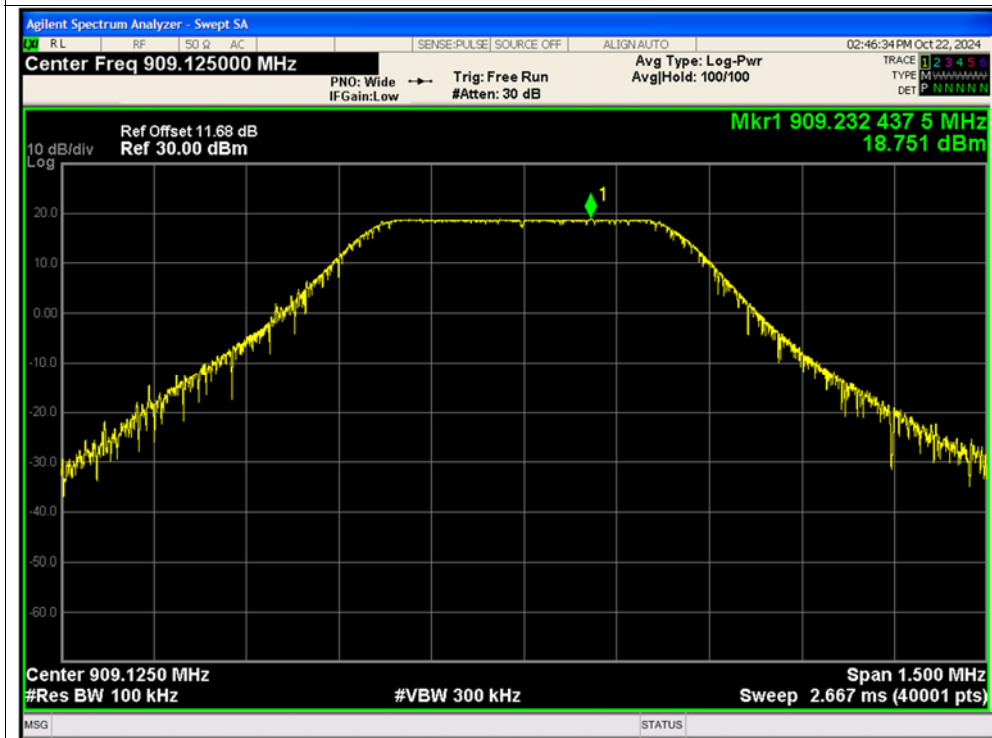


Tx. Spurious NVNT 900M 902.125MHz Ant1 Emission

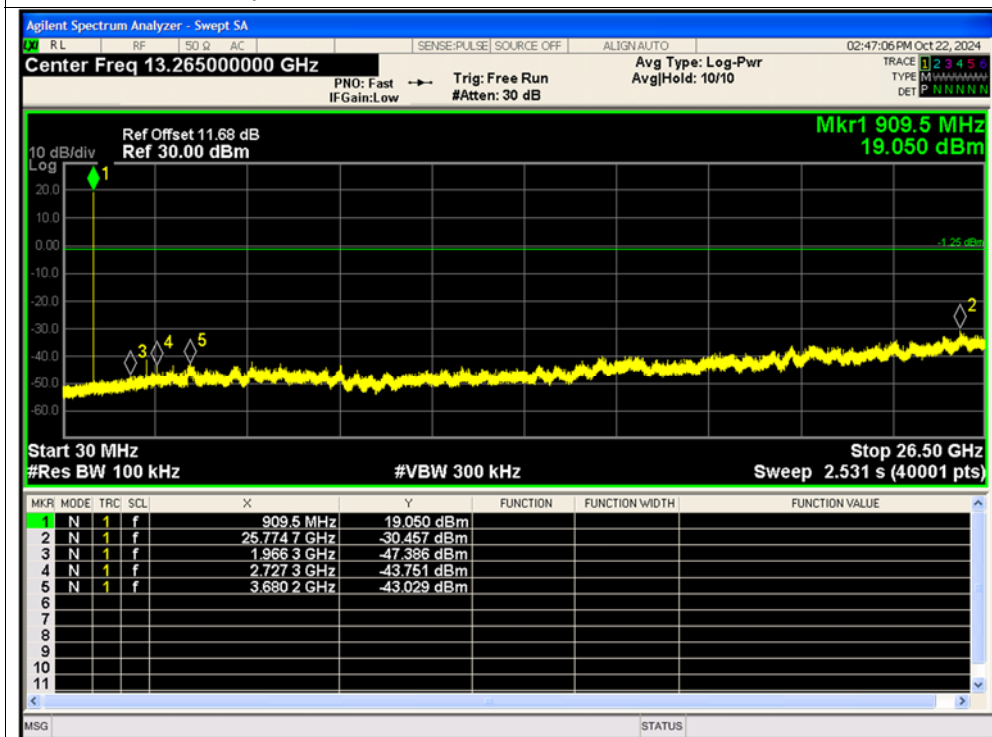




Tx. Spurious NVNT 900M 909.125MHz Ant1 Ref

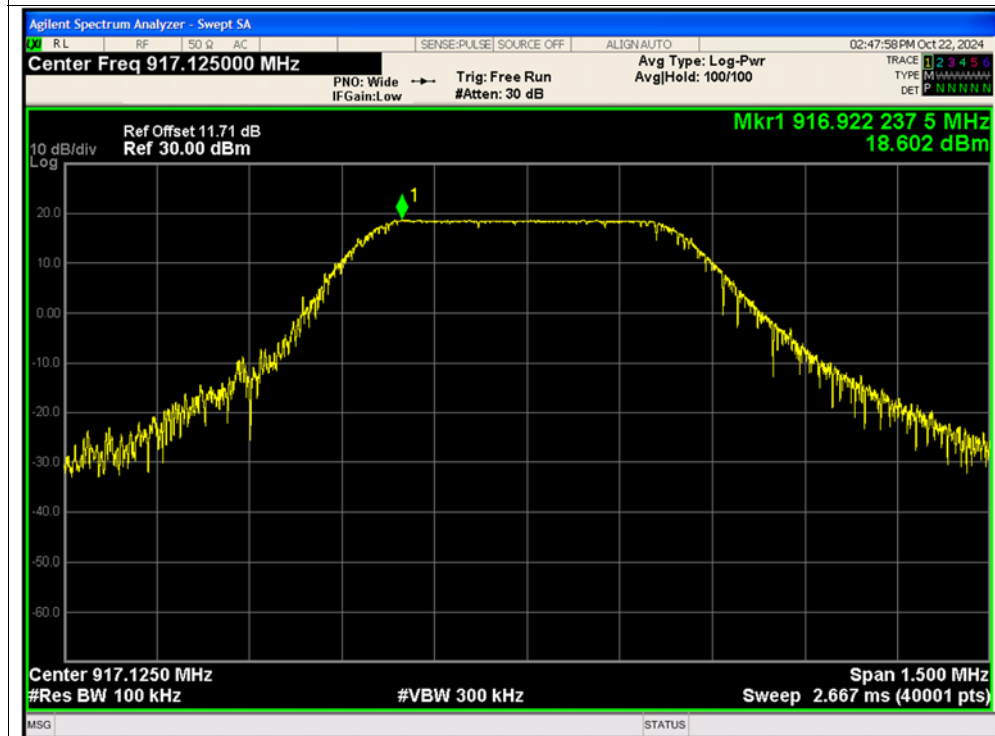


Tx. Spurious NVNT 900M 909.125MHz Ant1 Emission

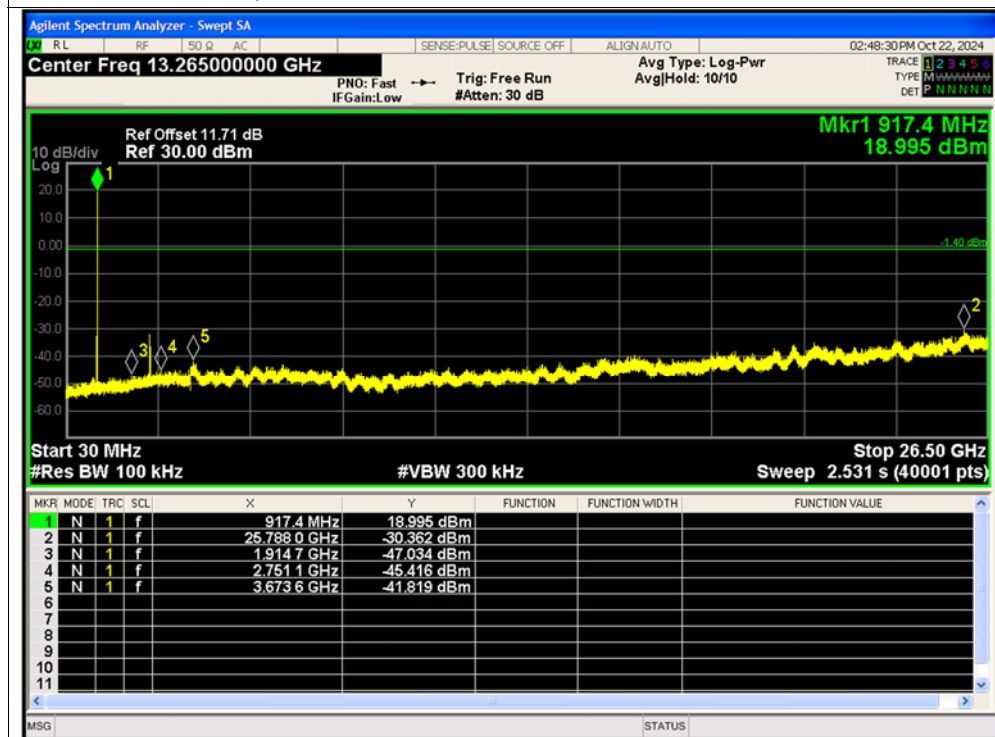




Tx. Spurious NVNT 900M 917.125MHz Ant1 Ref



Tx. Spurious NVNT 900M 917.125MHz Ant1 Emission





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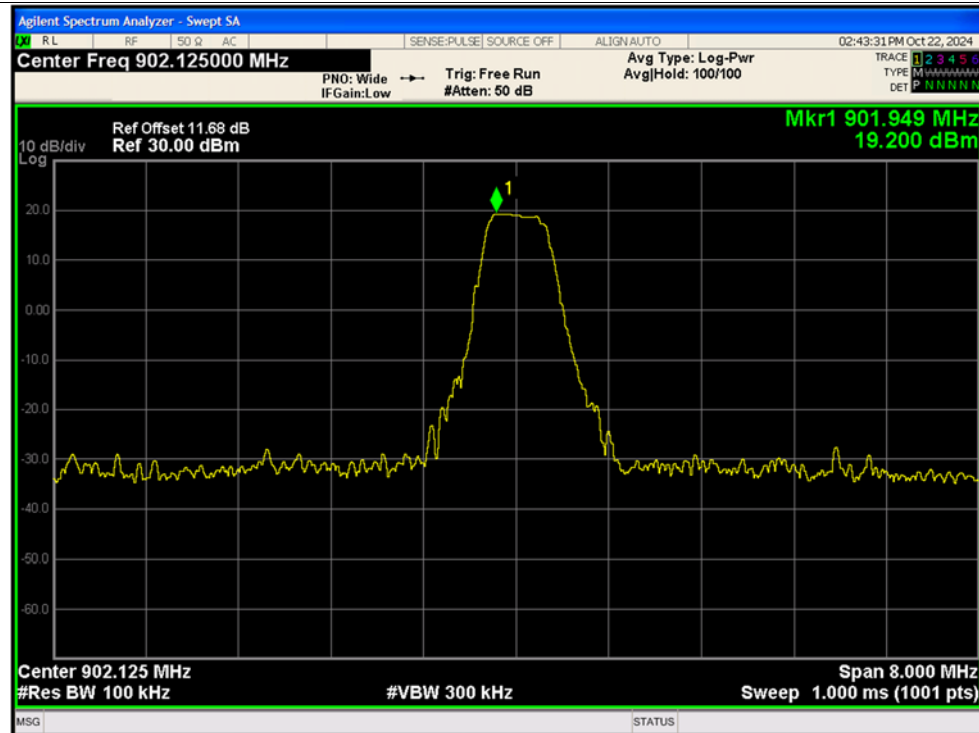
A.6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	900M	902.125	Ant1	-48.88	-20	Pass
NVNT	900M	917.125	Ant1	-47.71	-20	Pass

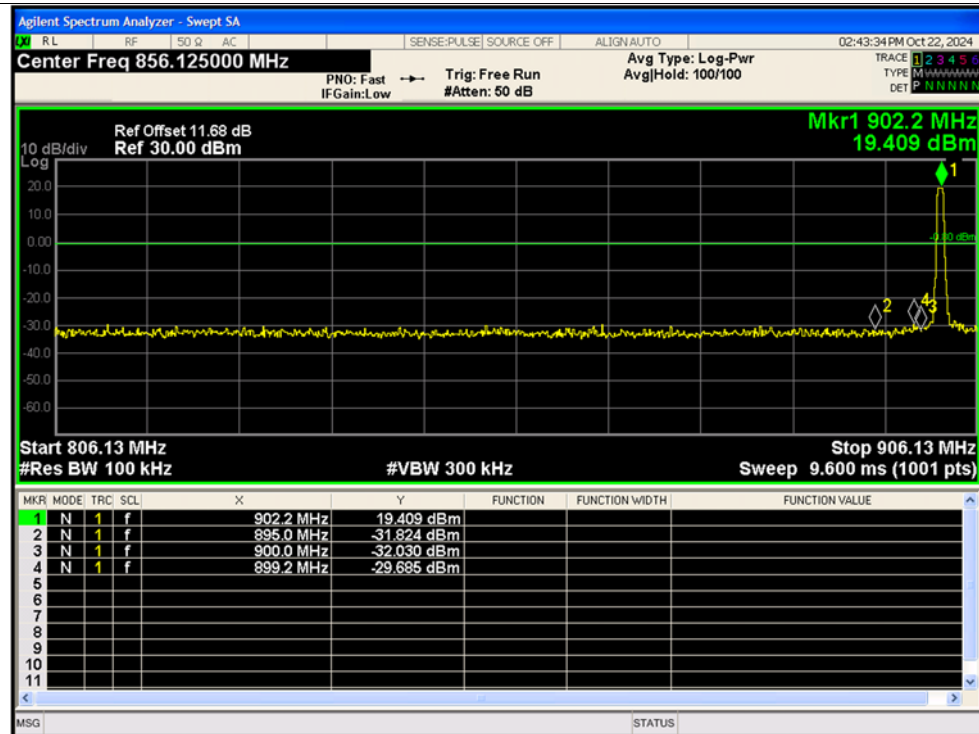


Test Graphs

Band Edge NVNT 900M 902.125MHz Ant1 Ref

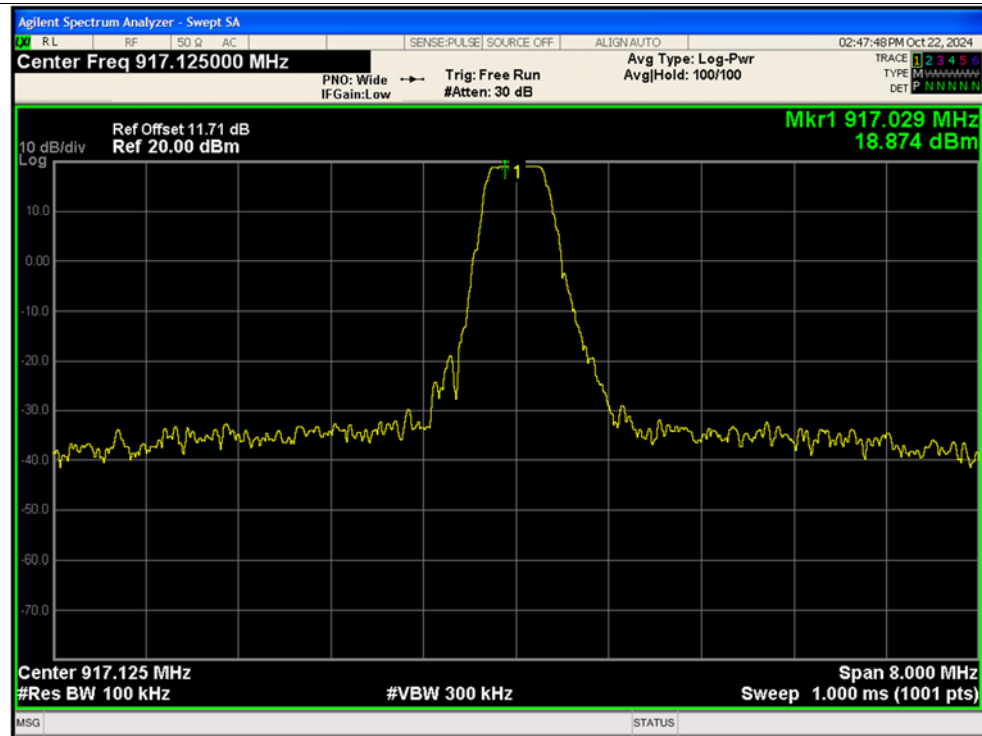


Band Edge NVNT 900M 902.125MHz Ant1 Emission

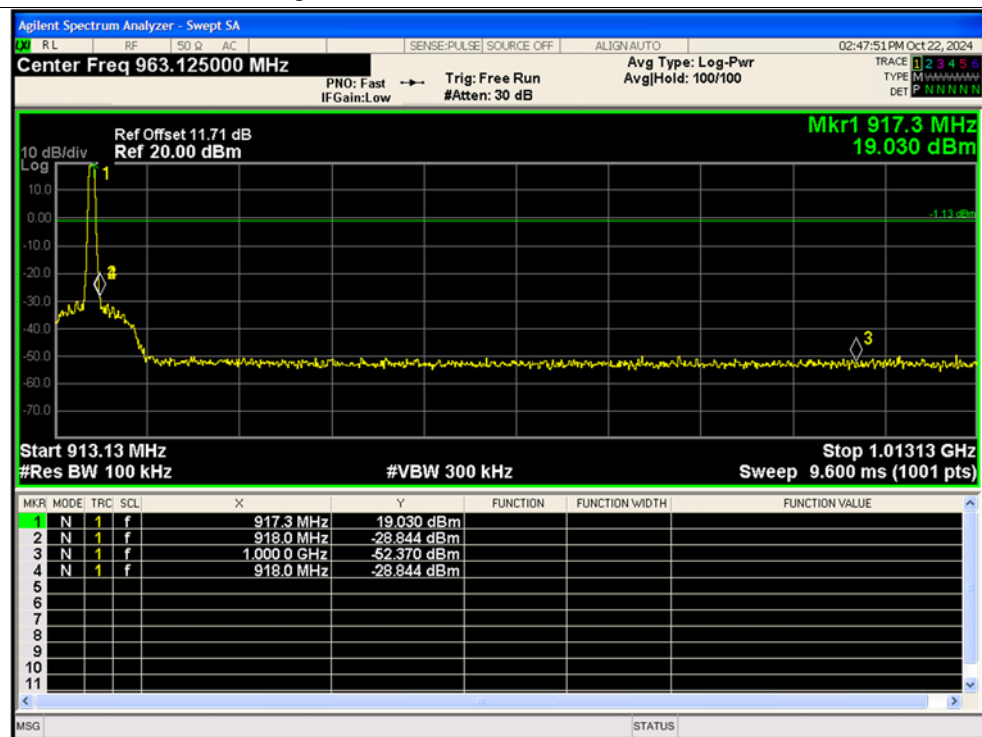




Band Edge NVNT 900M 917.125MHz Ant1 Ref



Band Edge NVNT 900M 917.125MHz Ant1 Emission



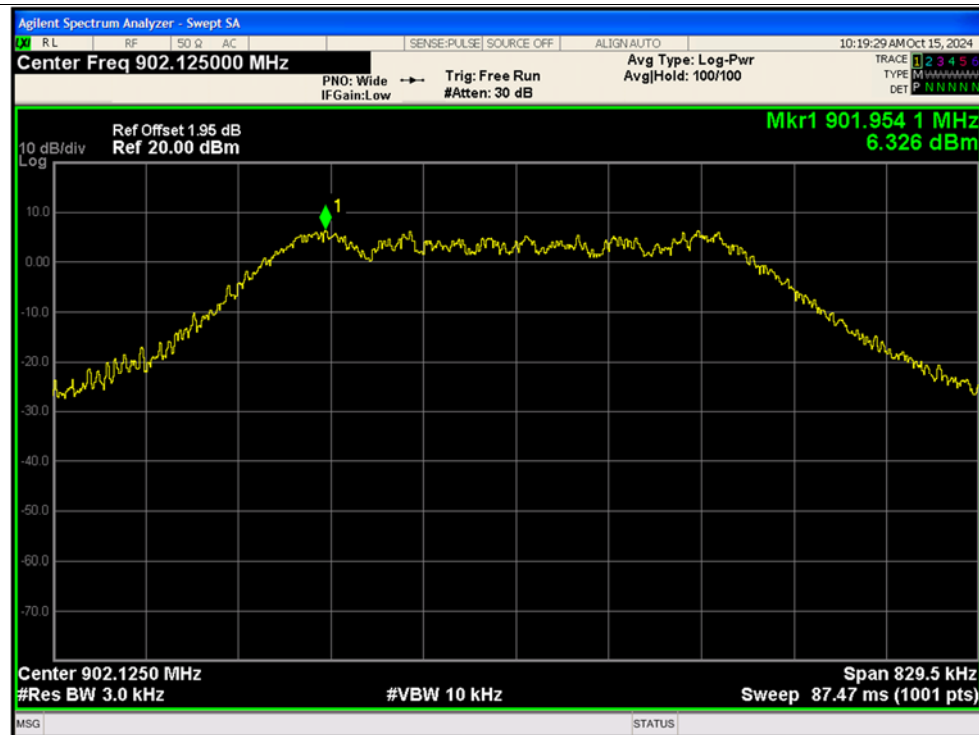
**A.7. Power Spectral Density**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	900M	902.125	Ant1	6.33	0	6.33	8	Pass
NVNT	900M	909.125	Ant1	6.25	0	6.25	8	Pass
NVNT	900M	917.125	Ant1	6.34	0	6.34	8	Pass



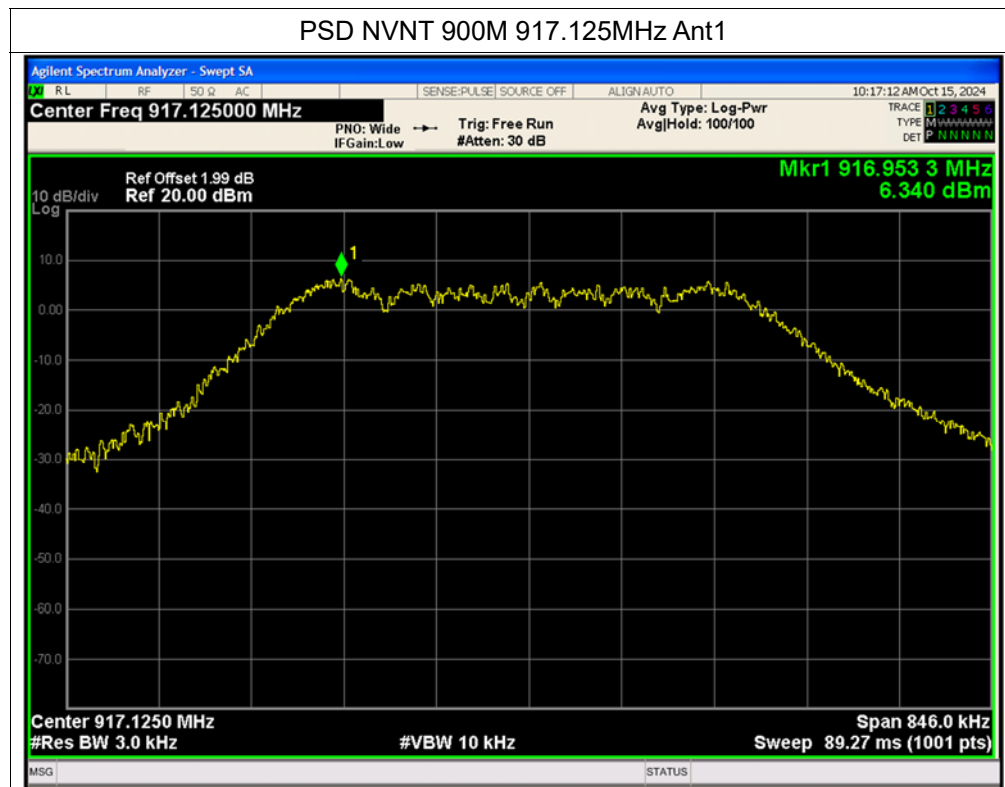
Test Graphs

PSD NVNT 900M 902.125MHz Ant1



PSD NVNT 900M 909.125MHz Ant1







A.8. 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.

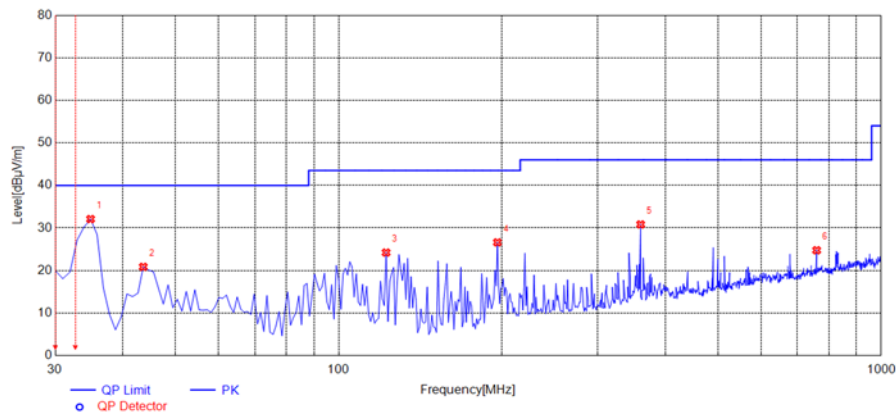
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

Note 3: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

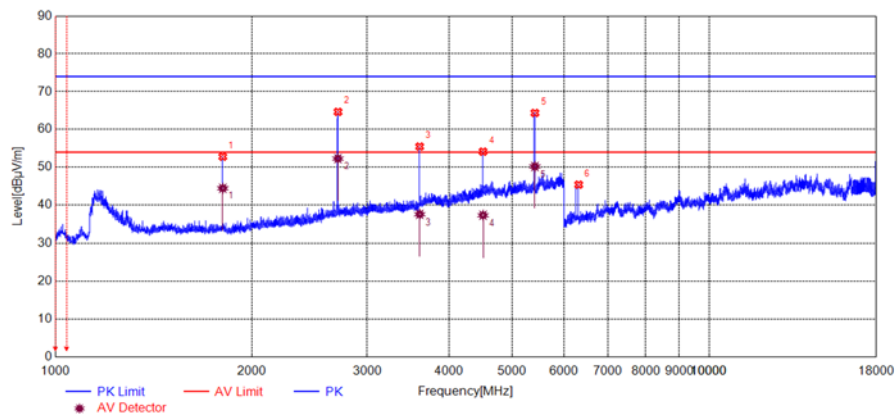


Plot for Channel 1



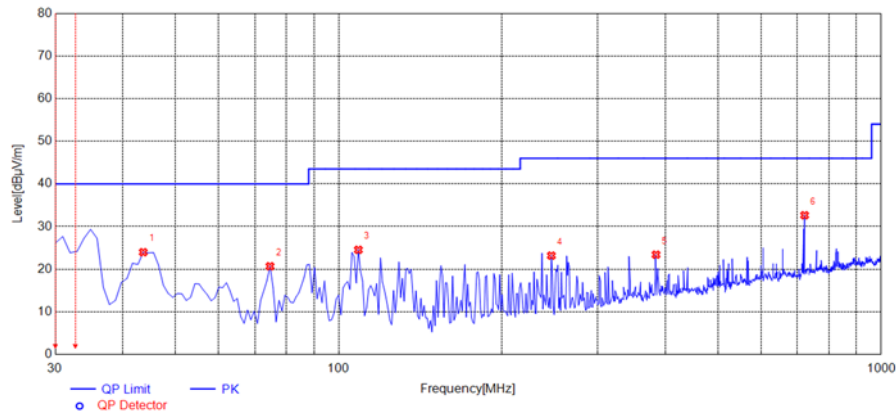
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.8549	N/A	32.08	N/A	N/A	40.00	N/A	Horizontal	PASS
43.5936	N/A	20.85	N/A	N/A	40.00	N/A	Horizontal	PASS
122.24	N/A	24.21	N/A	N/A	43.50	N/A	Horizontal	PASS
196.03	N/A	26.60	N/A	N/A	43.50	N/A	Horizontal	PASS
360.13	N/A	30.82	N/A	N/A	46.00	N/A	Horizontal	PASS
760.17	N/A	24.75	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



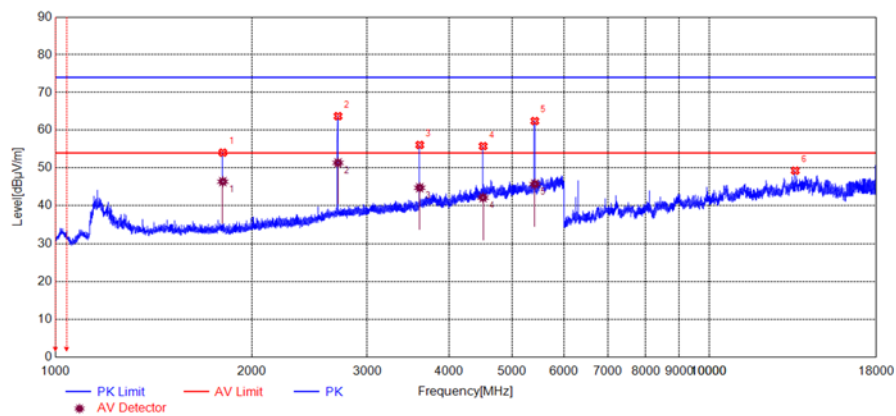
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1803.58	52.81	N/A	44.45	74.00	N/A	54.00	Horizontal	PASS
2706.17	64.66	N/A	52.30	74.00	N/A	54.00	Horizontal	PASS
3607.76	55.48	N/A	37.57	74.00	N/A	54.00	Horizontal	PASS
4509.85	54.13	N/A	37.32	74.00	N/A	54.00	Horizontal	PASS
5413.44	64.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
6315.63	45.41	N/A	50.21	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
43.5936	N/A	23.98	N/A	N/A	40.00	N/A	Vertical	PASS
74.6647	N/A	20.68	N/A	N/A	40.00	N/A	Vertical	PASS
108.64	N/A	24.54	N/A	N/A	43.50	N/A	Vertical	PASS
246.52	N/A	23.18	N/A	N/A	46.00	N/A	Vertical	PASS
384.40	N/A	23.40	N/A	N/A	46.00	N/A	Vertical	PASS
722.30	N/A	32.64	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

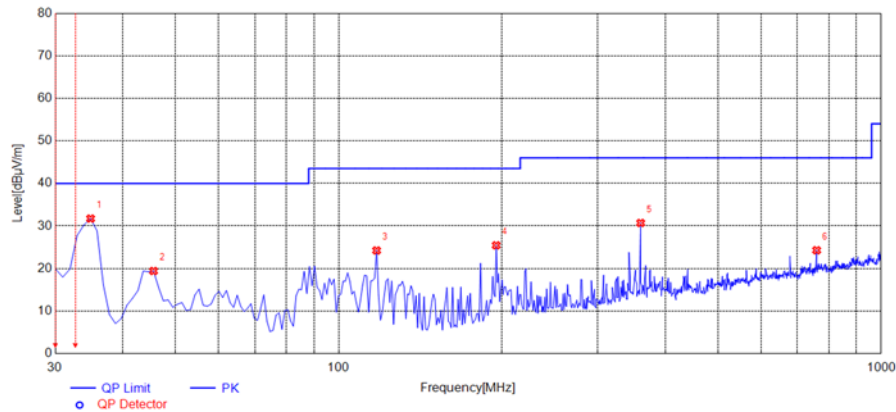


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1804.08	54.07	N/A	46.38	74.00	N/A	54.00	Vertical	PASS
2706.17	63.73	N/A	51.35	74.00	N/A	54.00	Vertical	PASS
3609.26	56.10	N/A	44.76	74.00	N/A	54.00	Vertical	PASS
4510.85	55.78	N/A	42.12	74.00	N/A	54.00	Vertical	PASS
5411.44	62.44	N/A	45.73	74.00	N/A	54.00	Vertical	PASS
13534.3	49.28	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

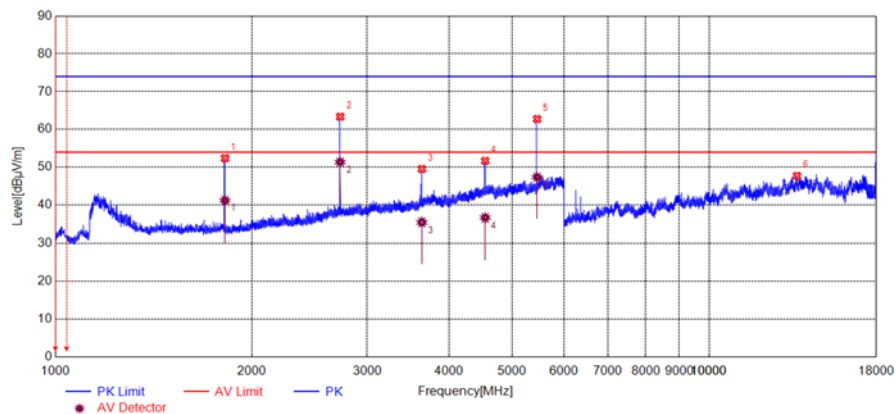


Plot for Channel 8



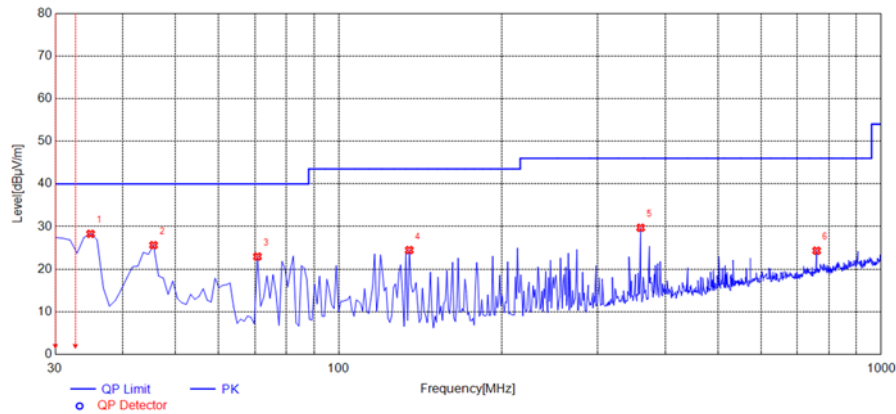
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.8549	N/A	31.73	N/A	N/A	40.00	N/A	Horizontal	PASS
45.5355	N/A	19.41	N/A	N/A	40.00	N/A	Horizontal	PASS
117.387	N/A	24.23	N/A	N/A	43.50	N/A	Horizontal	PASS
195.06	N/A	25.44	N/A	N/A	43.50	N/A	Horizontal	PASS
360.13	N/A	30.70	N/A	N/A	46.00	N/A	Horizontal	PASS
760.17	N/A	24.28	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



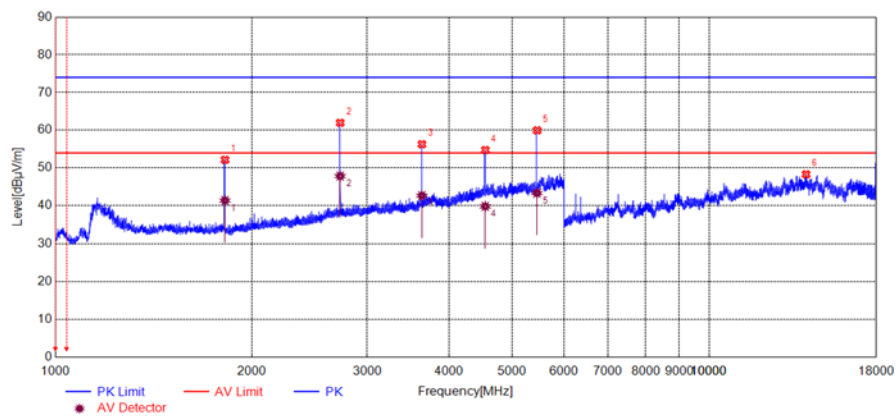
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1818.58	52.39	N/A	41.24	74.00	N/A	54.00	Horizontal	PASS
2727.17	63.38	N/A	51.37	74.00	N/A	54.00	Horizontal	PASS
3636.26	49.53	N/A	35.53	74.00	N/A	54.00	Horizontal	PASS
4544.85	51.68	N/A	36.69	74.00	N/A	54.00	Horizontal	PASS
5454.94	62.75	N/A	47.38	74.00	N/A	54.00	Horizontal	PASS
13617.1	47.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.8549	N/A	28.28	N/A	N/A	40.00	N/A	Vertical	PASS
45.5355	N/A	25.62	N/A	N/A	40.00	N/A	Vertical	PASS
70.7808	N/A	22.95	N/A	N/A	40.00	N/A	Vertical	PASS
134.8649	N/A	24.47	N/A	N/A	43.50	N/A	Vertical	PASS
360.1301	N/A	29.70	N/A	N/A	46.00	N/A	Vertical	PASS
760.1702	N/A	24.33	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)

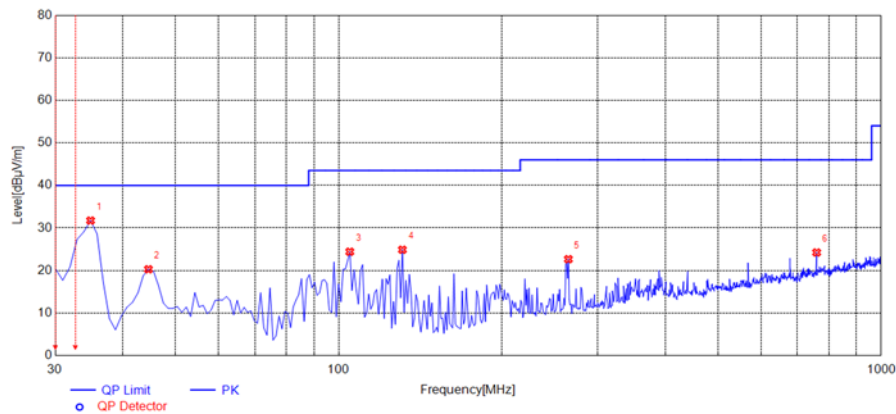


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1818.081	52.16	N/A	41.37	74.00	N/A	54.00	Vertical	PASS
2727.172	61.98	N/A	47.85	74.00	N/A	54.00	Vertical	PASS
3636.763	56.29	N/A	42.66	74.00	N/A	54.00	Vertical	PASS
4546.854	54.75	N/A	39.81	74.00	N/A	54.00	Vertical	PASS
5455.445	59.97	N/A	43.33	74.00	N/A	54.00	Vertical	PASS
14063.60	48.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

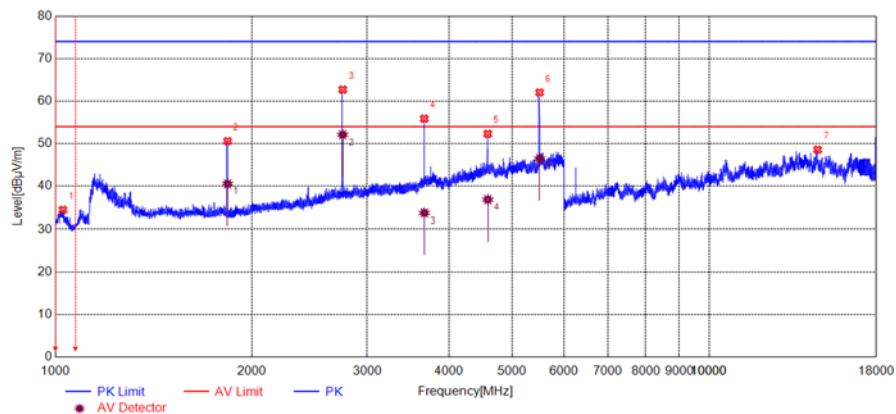


Plot for Channel 16



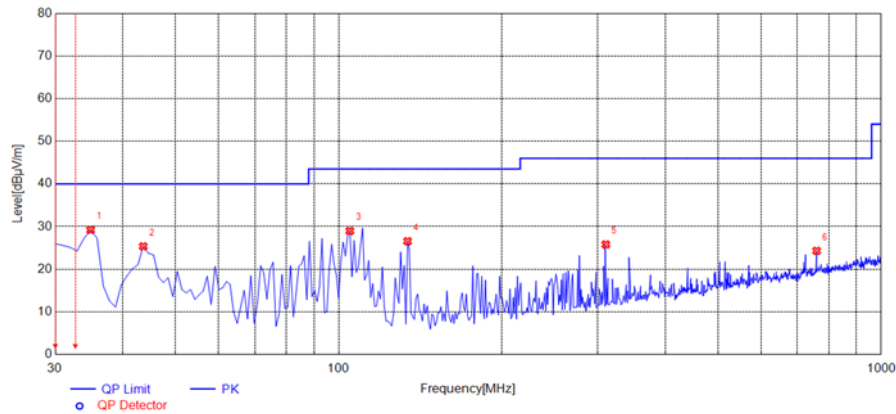
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.8549	N/A	31.74	N/A	N/A	40.00	N/A	Horizontal	PASS
44.5646	N/A	20.28	N/A	N/A	40.00	N/A	Horizontal	PASS
104.764	N/A	24.41	N/A	N/A	43.50	N/A	Horizontal	PASS
130.981	N/A	24.88	N/A	N/A	43.50	N/A	Horizontal	PASS
264.975	N/A	22.65	N/A	N/A	46.00	N/A	Horizontal	PASS
760.170	N/A	24.23	N/A	N/A	46.00	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 1GHz)



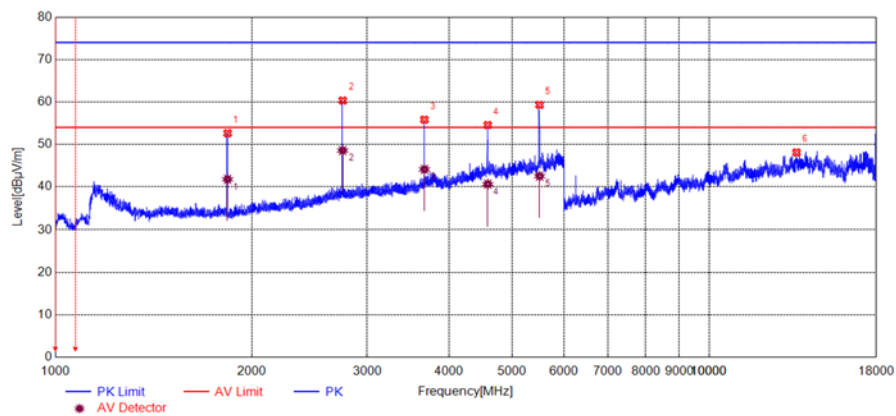
Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1027.50	34.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
1834.58	50.58	N/A	40.55	74.00	N/A	54.00	Horizontal	PASS
2751.17	62.70	N/A	52.10	74.00	N/A	54.00	Horizontal	PASS
3667.76	55.87	N/A	33.73	74.00	N/A	54.00	Horizontal	PASS
4584.85	52.31	N/A	36.84	74.00	N/A	54.00	Horizontal	PASS
5502.95	62.03	N/A	46.49	74.00	N/A	54.00	Horizontal	PASS
14644.4	48.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 1GHz to 18GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
34.8549	N/A	29.21	N/A	N/A	40.00	N/A	Vertical	PASS
43.5936	N/A	25.35	N/A	N/A	40.00	N/A	Vertical	PASS
104.7648	N/A	28.96	N/A	N/A	43.50	N/A	Vertical	PASS
133.8939	N/A	26.56	N/A	N/A	43.50	N/A	Vertical	PASS
310.6106	N/A	25.79	N/A	N/A	46.00	N/A	Vertical	PASS
760.1702	N/A	24.30	N/A	N/A	46.00	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 1GHz)



Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
1834.58	52.61	N/A	41.77	74.00	N/A	54.00	Vertical	PASS
2751.67	60.33	N/A	48.56	74.00	N/A	54.00	Vertical	PASS
3668.26	55.82	N/A	44.11	74.00	N/A	54.00	Vertical	PASS
4584.35	54.55	N/A	40.64	74.00	N/A	54.00	Vertical	PASS
5501.95	59.31	N/A	42.51	74.00	N/A	54.00	Vertical	PASS
13597.9	48.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 1GHz to 18GHz)

END OF REPORT