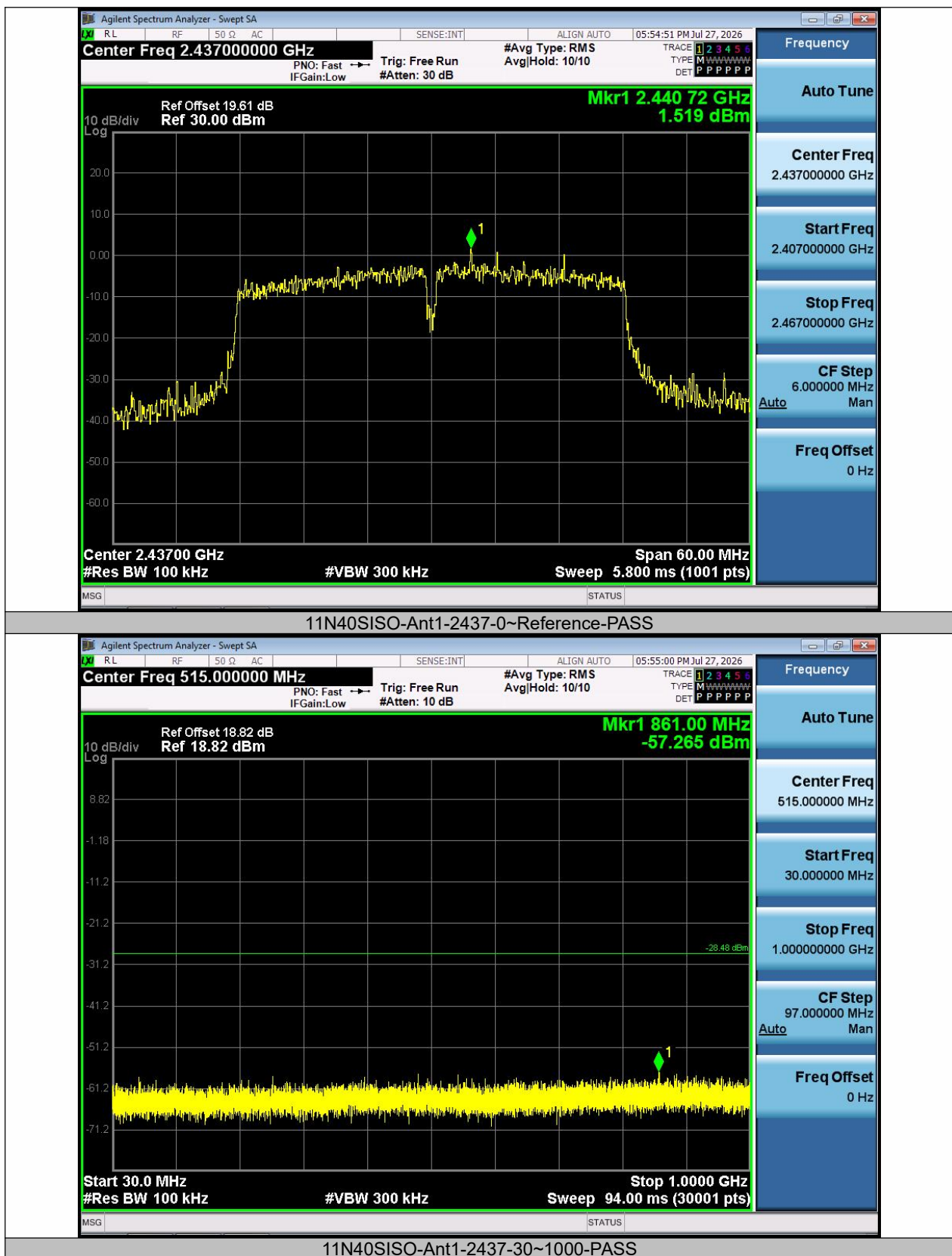
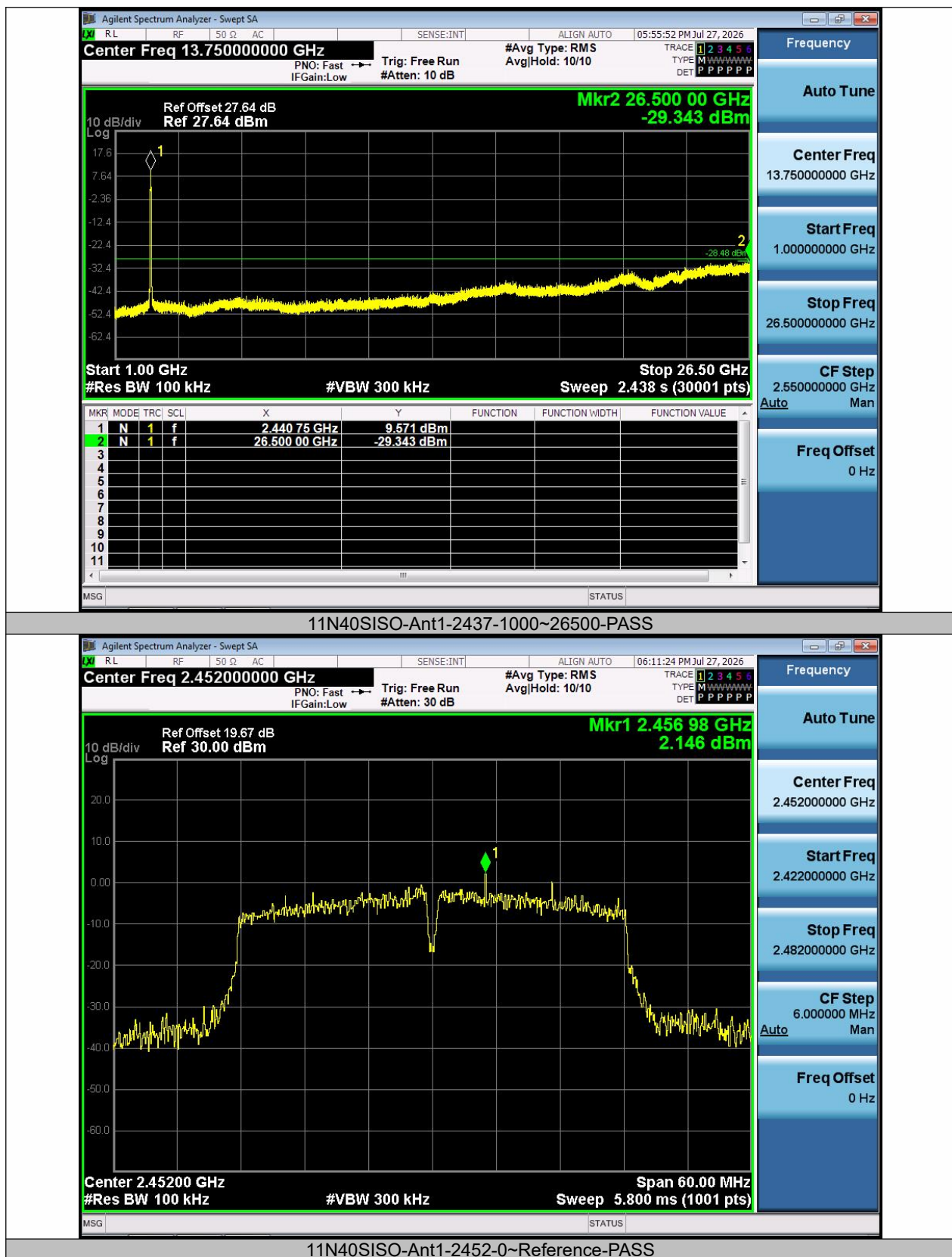
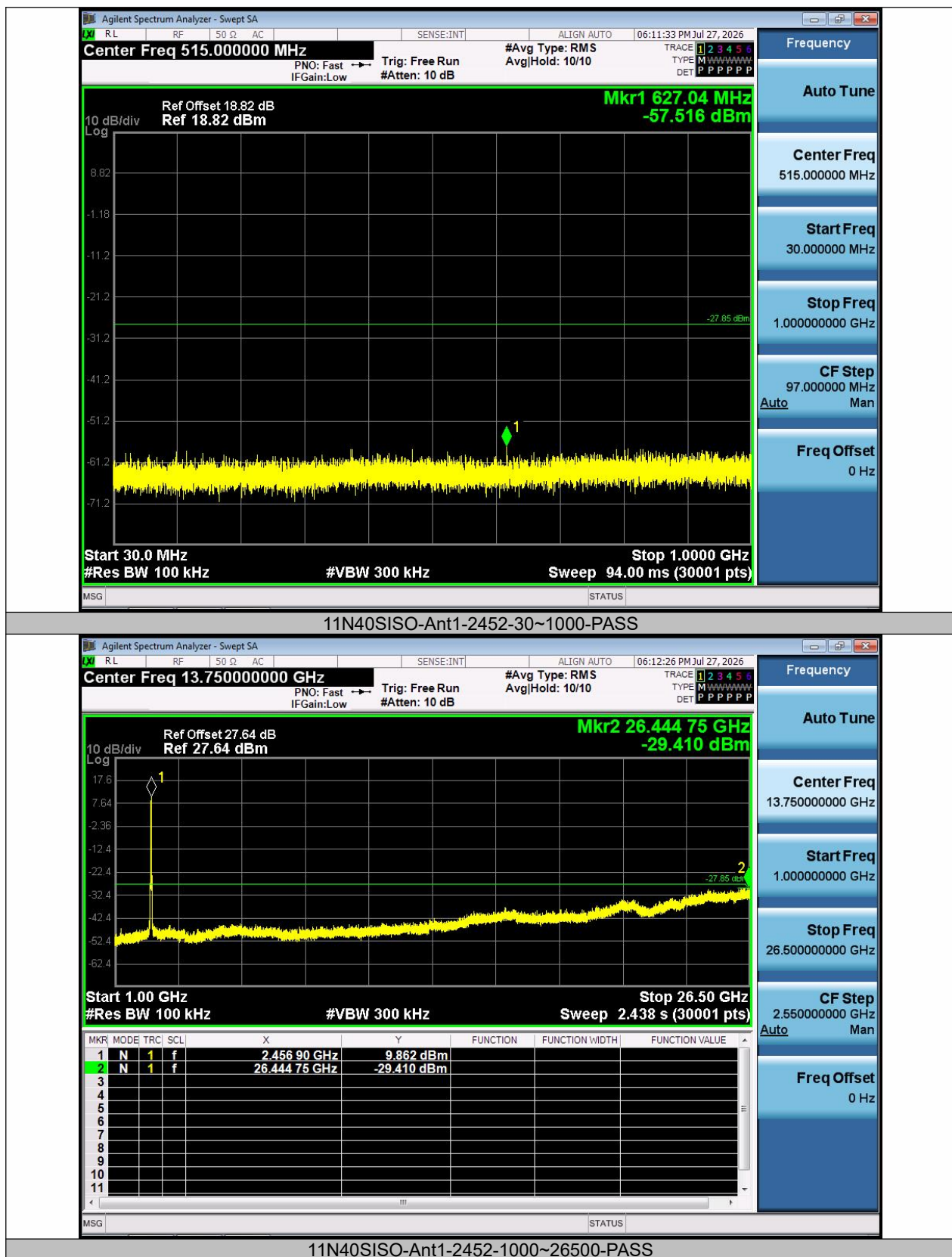








7.5 RADIATED EMISSION

7.5.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 Meas Guidance v05r02.

7.5.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205 the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

7.5.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2.

7.5.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured.

RBW = 1 MHz.

VBW ≥ RBW.

Sweep = auto.

Detector function = peak.
Trace = max hold.

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured.
RBW = 100 kHz.
VBW $\geq$ RBW.
Sweep = auto.
Detector function = peak.
Trace = max hold.

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured.
RBW = 9kHz.
VBW $\geq$ RBW.
Sweep = auto.
Detector function = peak.
Trace = max hold.

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Span = wide enough to fully capture the emission being measured.
RBW = 200Hz.
VBW $\geq$ RBW.
Sweep = auto.
Detector function = peak.
Trace = max hold.

Follow the guidelines in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit. Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the limit. Submit this data.
Repeat above procedures until all frequency measured was complete.

7.5.5 Test Results

Temperature :	25°C	ATM Pressure:	1011 mbar
Humidity :	45 %	Test Engineer:	YXP

All of the configurations or modes are tested, the data of the worst case is recorded as below.

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Temperature: 25°C Test By: YXP
Humidity: 45%
Test mode: 802.11b

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

All antennas and modulation modes are tested, the data of the worst mode is described in the table.

Test mode: 802.11B Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Margin(dB)	Detector
4824.375	V	51.47	74	22.53	peak
11533.125	V	60.41	74	13.59	peak
17608.125	V	65.57	74	8.43	peak
4824.0004	V	48.54	54	5.46	AVG
11533.125	V	43.2	54	10.8	AVG
17608.125	V	47.93	54	6.07	AVG
9256.875	H	57.03	74	16.97	peak
13196.25	H	62.93	74	11.07	peak
17596.875	H	67.09	74	6.91	peak
9256.875	H	42.98	54	11.02	AVG
13196.25	H	48.83	54	5.17	AVG
17596.875	H	47.76	54	6.24	AVG

Test mode: 802.11 B Frequency: Channel 6: 2437MHz

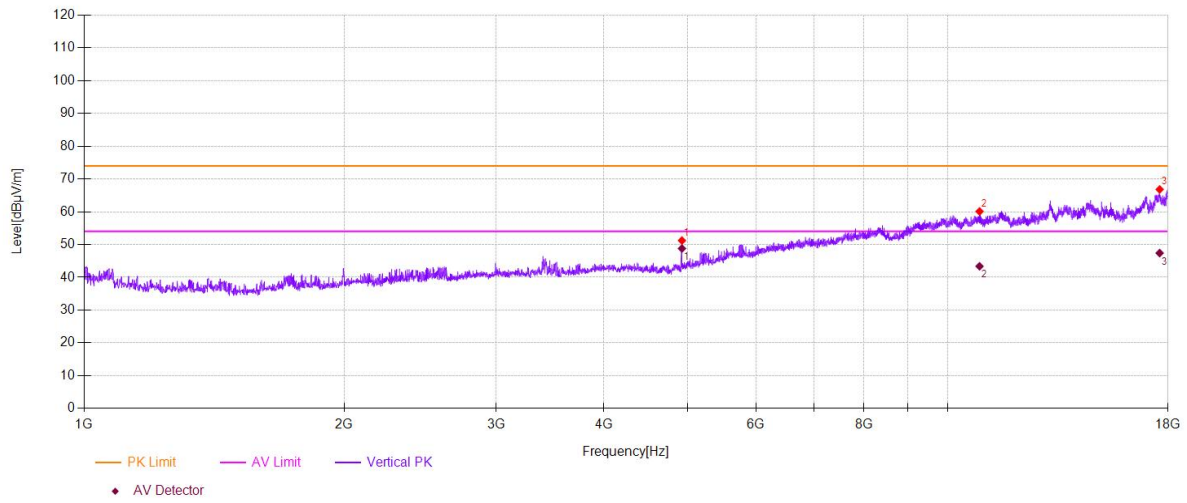
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Margin(dB)	Detector
4873.125	V	51.81	74	22.19	peak
11503.125	V	60.02	74	13.98	peak
17595	V	66.2	74	7.8	peak
4873.9692	V	49.13	54	4.87	AVG
11503.125	V	43.78	54	10.22	AVG
17595	V	47.29	54	6.71	AVG
9864.375	H	59.02	74	14.98	peak
13153.125	H	62.96	74	11.04	peak
16993.125	H	66.43	74	7.57	peak
9864.375	H	44.22	54	9.78	AVG
13153.125	H	47.84	54	6.16	AVG
16993.125	H	46.73	54	7.27	AVG

Test mode: 802.11 B Frequency: Channel 11: 2472MHz

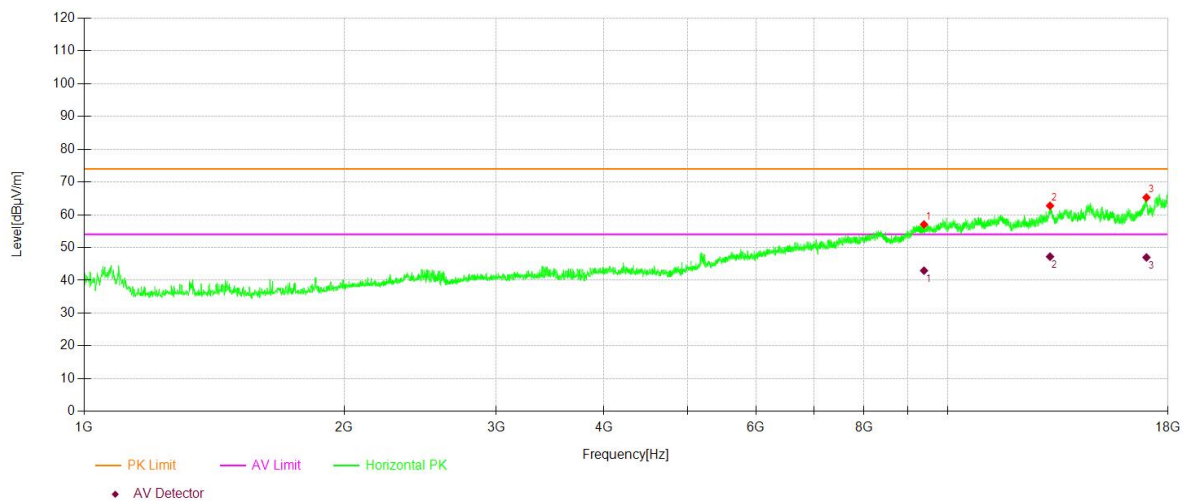
Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Margin(dB)	Detector
4923.75	V	51.23	74	22.77	peak
10888.125	V	60.1	74	13.9	peak
17602.5	V	66.81	74	7.19	peak
4924.0297	V	48.8	54	5.2	AVG
10888.125	V	43.37	54	10.63	AVG
17602.5	V	47.4	54	6.6	AVG
9390	H	57.03	74	16.97	peak
13140	H	62.75	74	11.25	peak
16993.125	H	65.27	74	8.73	peak
9390	H	42.95	54	11.05	AVG
13140	H	47.22	54	6.78	AVG
16993.125	H	46.99	54	7.01	AVG

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

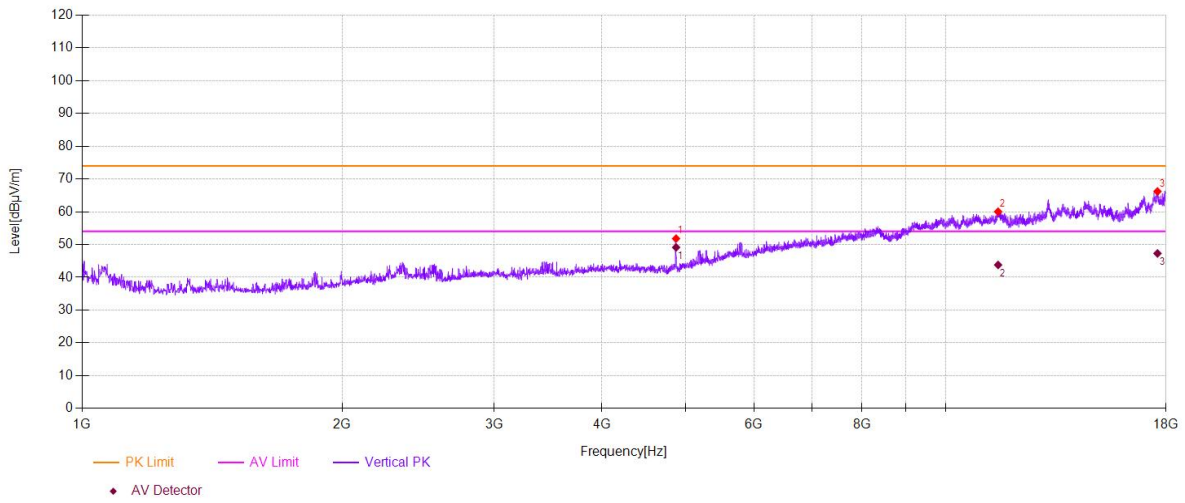
Test Graph Channel 1: 2412MHz 802.11B Vertical



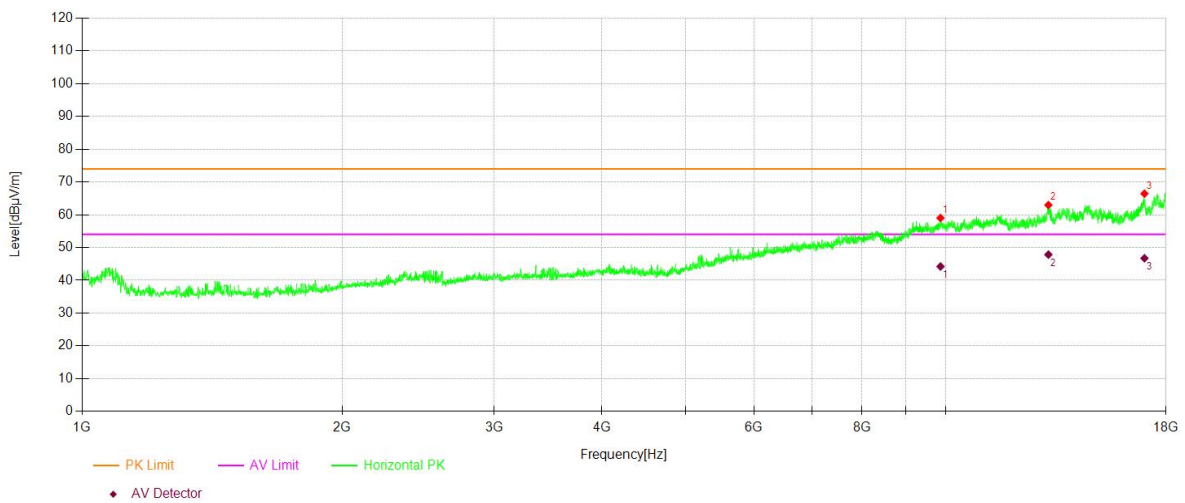
Test Graph Channel 1: 2412MHz 802.11B Horizontal



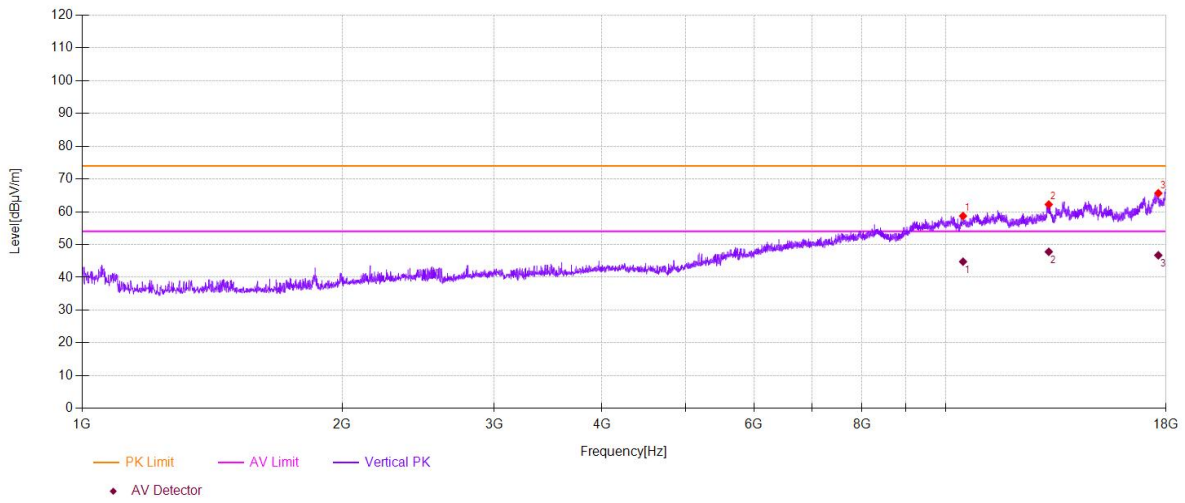
Test Graph Channel 6: 2437MHz 802.11B Vertical



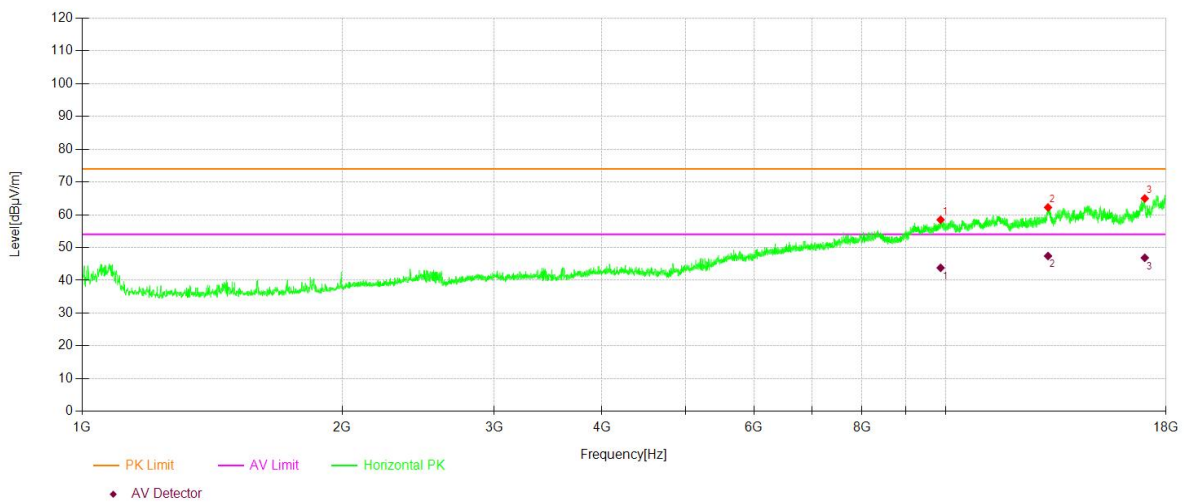
Test Graph Channel 6: 2437MHz 802.11B Horizontal



Test Graph Channel 1: 2462MHz 802.11B Vertical



Test Graph Channel 1: 2462MHz 802.11B Horizontal



■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Test mode: 802.11N20 Frequency: Channel 1: 2412MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2388.71	V	50.65	74.00	23.35	peak
2388.71	V	36.54	54.00	17.46	AVG
2389.75	H	45.06	74.00	28.94	peak
2389.75	H	36.75	54.00	17.25	AVG

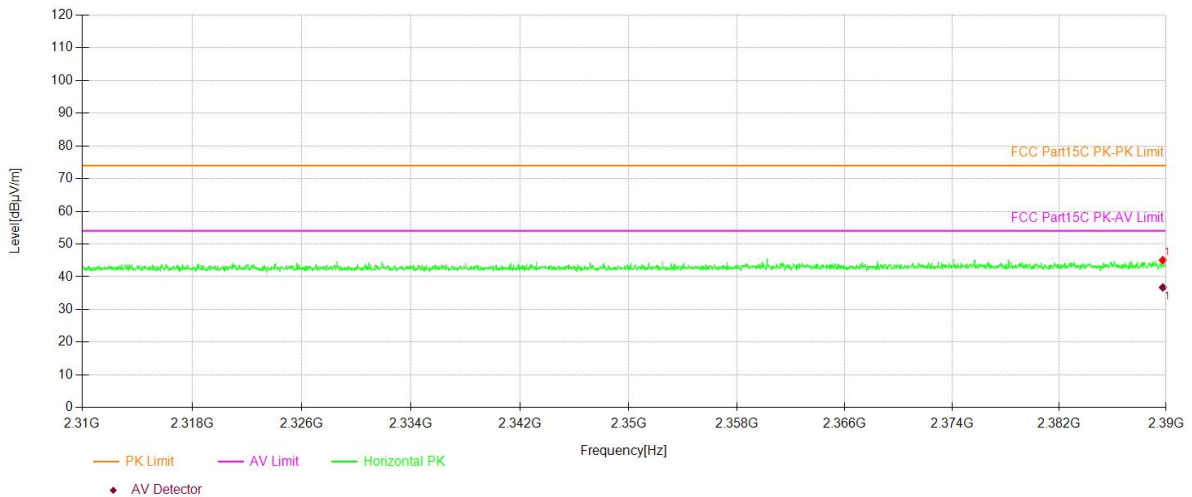
Test mode: 802.11N20 Frequency: Channel 11: 2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)	Limit 3m(dBuV/m)	Over(dB)	Detector
2483.71	V	53.08	74.00	20.92	peak
2483.71	V	36.79	54.00	17.21	AVG
2485.84	H	46.28	74.00	27.72	peak
2485.84	H	36.44	54.00	17.56	AVG

- Note:** (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

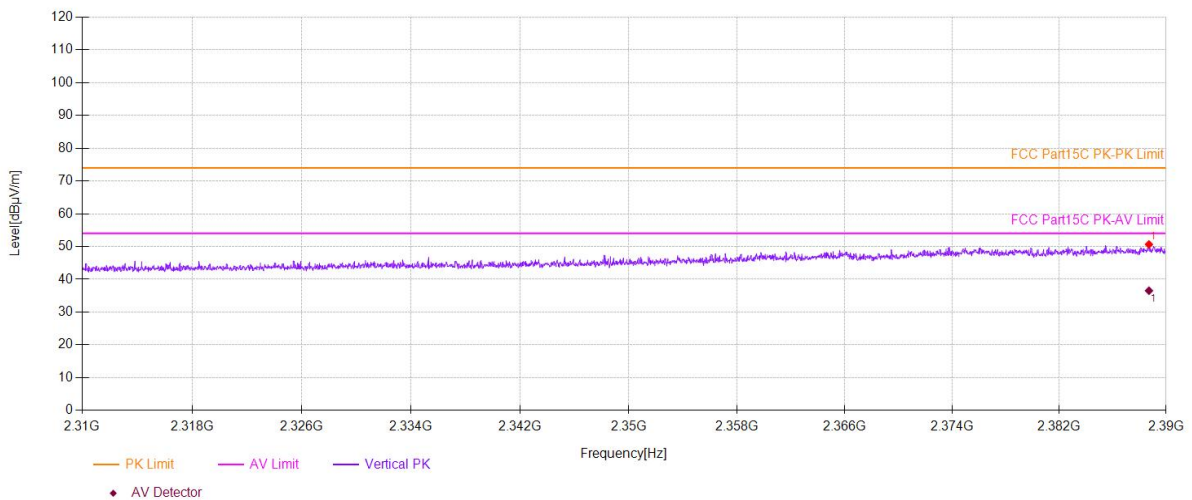
Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11AX20 ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: H
 VBW=3MHz



Spurious Emission in Restricted Band 2310-2390MHz

Test Model ☐ 802.11 AX20 ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)
☒ Channel 1:2412MHz ☐ Channel 3: 2422MHz Polarity: V
 VBW=3MHz

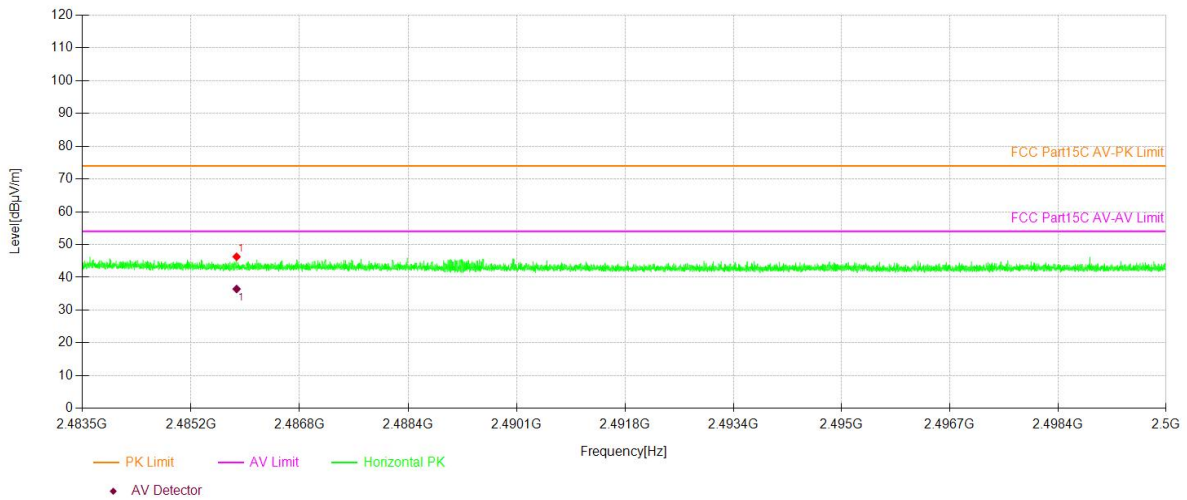


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11 AX20 ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz Polarity: H

VBW=3MHz

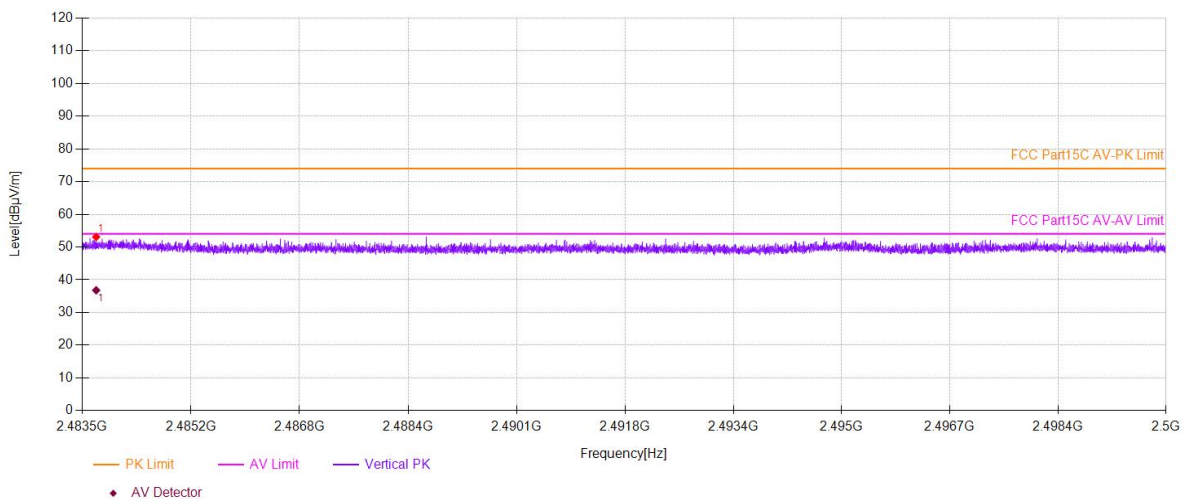


Spurious Emission in Restricted Band 2483.5-2500MHz

Test Model ☐ 802.11 AX20 ☐ 802.11g ☒ 802.11n(HT20) ☐ 802.11n(HT40)

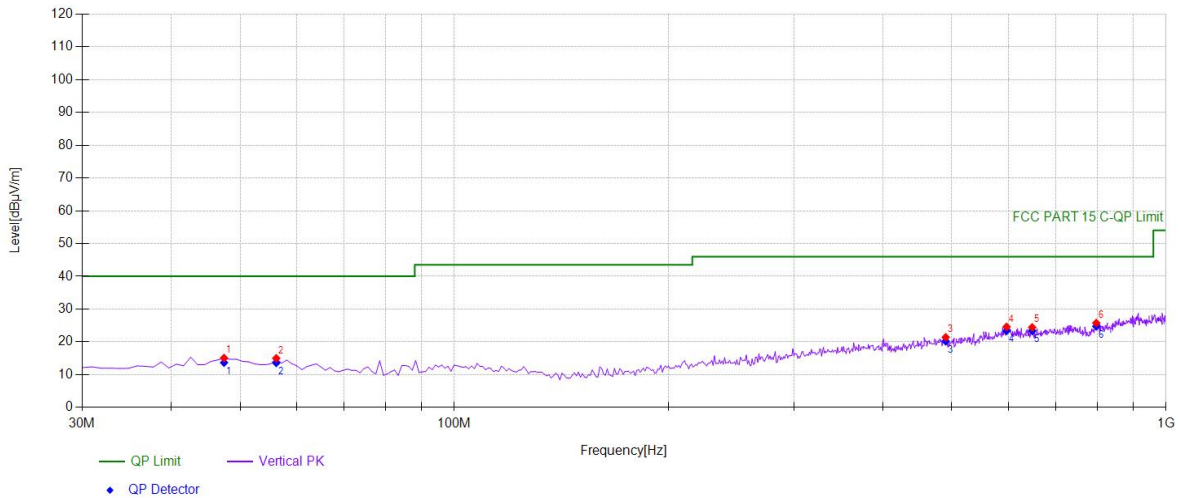
☒ Channel 11: 2462MHz ☐ Channel 9: 2452MHz Polarity: V

VBW=3MHz



■ Spurious Emission below 1GHz (30MHz to 1GHz)

Test mode: 802.11B Frequency: Channel 1: 2412MHz

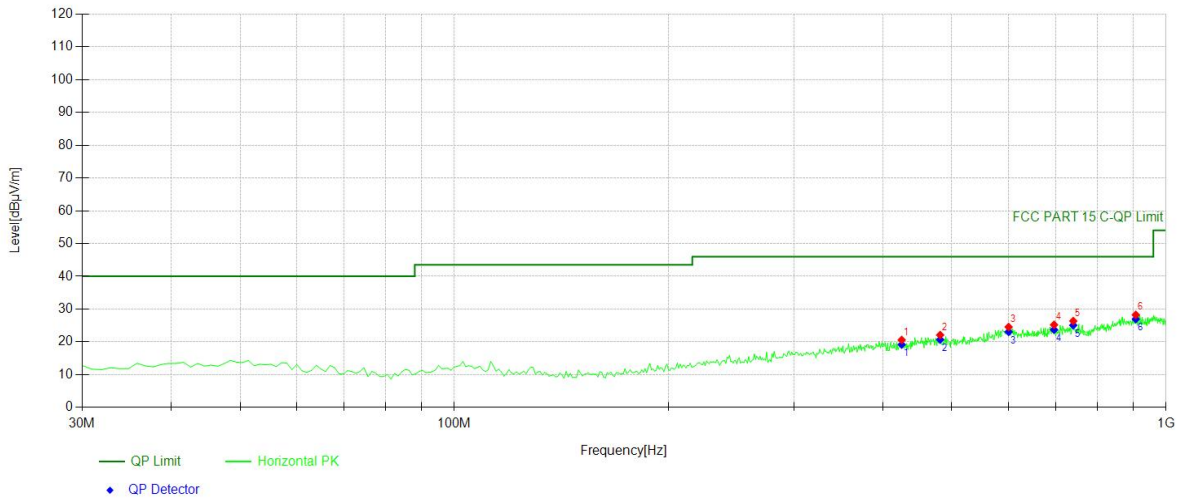


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	47.4775	26.15	-11.07	15.08	PK	40.00	24.92	Vertical
2	56.2162	26.49	-11.49	15.00	PK	40.00	25.00	Vertical
3	490.240	25.37	-3.95	21.42	PK	46.00	24.58	Vertical
4	597.047	25.02	-0.42	24.60	PK	46.00	21.40	Vertical
5	648.508	25.66	-1.23	24.43	PK	46.00	21.57	Vertical
6	798.038	25.43	0.36	25.79	PK	46.00	20.21	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	47.4775	-11.07	13.68	40.00	26.32
2	56.2162	-11.49	13.60	40.00	26.40
3	490.2402	-3.95	20.20	46.00	25.80
4	597.047	-0.42	23.38	46.00	22.62
5	648.5085	-1.23	23.39	46.00	22.61
6	798.038	0.36	24.75	46.00	21.25



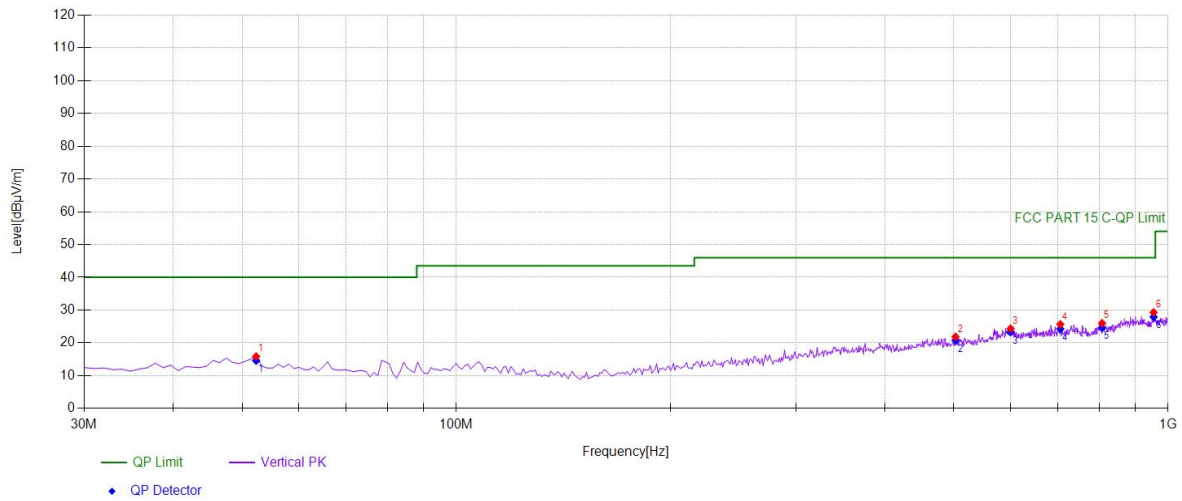
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	425.185	26.41	-5.82	20.59	PK	46.00	25.41	Horizontal
2	481.501	26.06	-3.96	22.10	PK	46.00	23.90	Horizontal
3	600.930	24.89	-0.33	24.56	PK	46.00	21.44	Horizontal
4	696.086	25.62	-0.40	25.22	PK	46.00	20.78	Horizontal
5	740.750	25.93	0.45	26.38	PK	46.00	19.62	Horizontal
6	906.786	25.53	2.72	28.25	PK	46.00	17.75	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	425.1852	-5.82	19.18	46.00	26.82
2	481.5015	-3.96	20.69	46.00	25.31
3	600.9309	-0.33	23.07	46.00	22.93
4	696.0861	-0.40	23.73	46.00	22.27
5	740.7508	0.45	25.07	46.00	20.93
6	906.7868	2.72	26.94	46.00	19.06

Test mode: 802.11B Frequency: Channel 6: 2437MHz

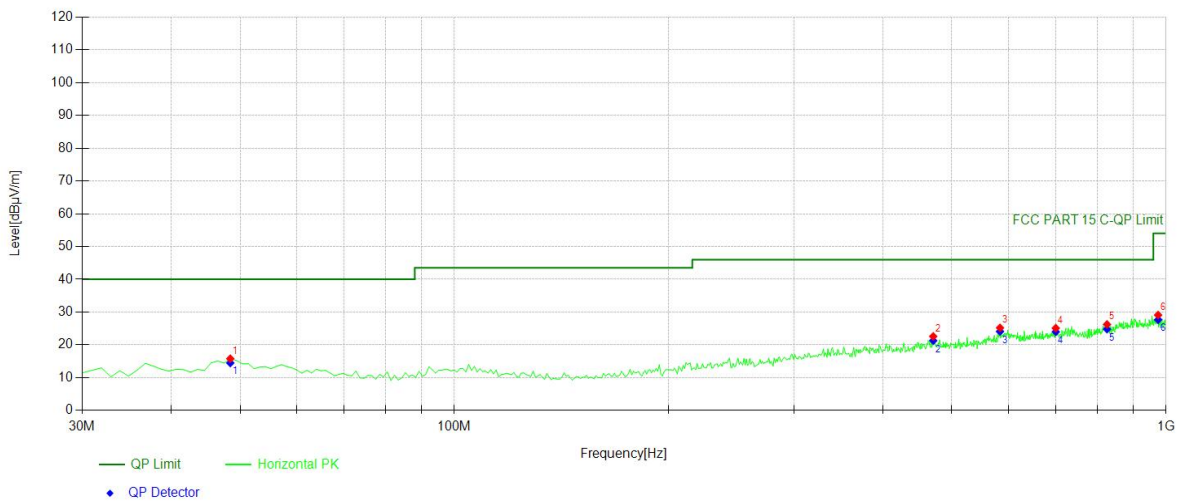


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	52.3323	26.82	-10.97	15.85	PK	40.00	24.15	Vertical
2	502.862	25.91	-4.06	21.85	PK	46.00	24.15	Vertical
3	600.930	24.69	-0.33	24.36	PK	46.00	21.64	Vertical
4	705.795	25.89	-0.22	25.67	PK	46.00	20.33	Vertical
5	807.747	25.32	0.70	26.02	PK	46.00	19.98	Vertical
6	954.364	26.31	3.00	29.31	PK	46.00	16.69	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	52.3323	-10.97	14.59	40.00	25.41
2	502.8629	-4.06	20.77	46.00	25.23
3	600.9309	-0.33	23.28	46.00	22.72
4	705.7958	-0.22	24.27	46.00	21.73
5	807.7477	0.70	24.62	46.00	21.38
6	954.3644	3.00	27.91	46.00	18.09



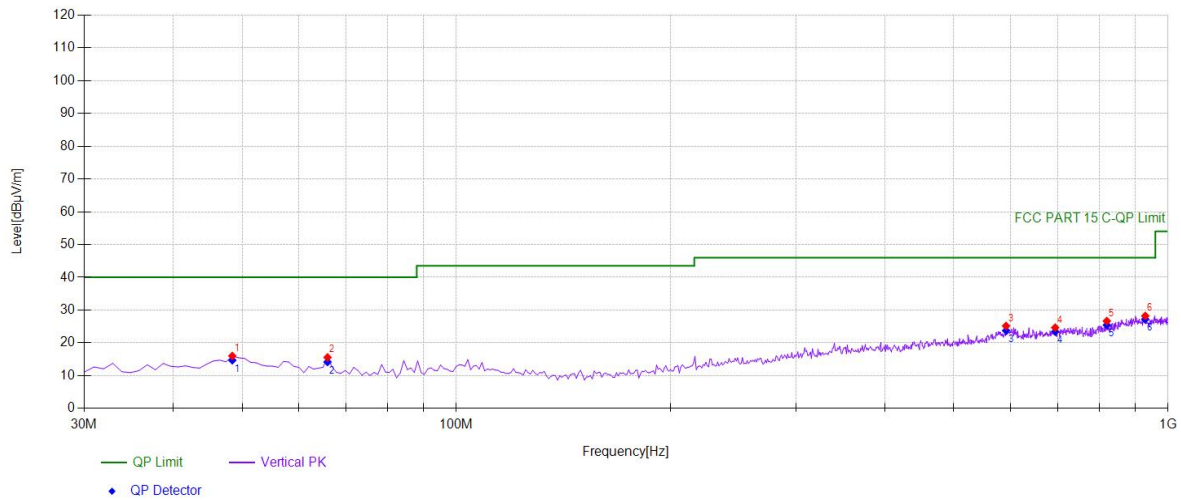
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	48.4484	26.69	-10.90	15.79	PK	40.00	24.21	Horizontal
2	470.820	26.73	-4.13	22.60	PK	46.00	23.40	Horizontal
3	584.424	26.34	-1.13	25.21	PK	46.00	20.79	Horizontal
4	699.97	25.36	-0.24	25.12	PK	46.00	20.88	Horizontal
5	826.196	25.39	0.86	26.25	PK	46.00	19.75	Horizontal
6	974.754	26.03	3.08	29.11	PK	54.00	24.89	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	48.4484	-10.90	14.49	40.00	25.51
2	470.8208	-4.13	21.30	46.00	24.70
3	584.4244	-1.13	24.09	46.00	21.91
4	699.97	-0.24	24.00	46.00	22.00
5	826.1962	0.86	24.81	46.00	21.19
6	974.7548	3.08	27.67	54.00	26.33

Test mode: 802.11B Frequency: Channel 11: 2462MHz

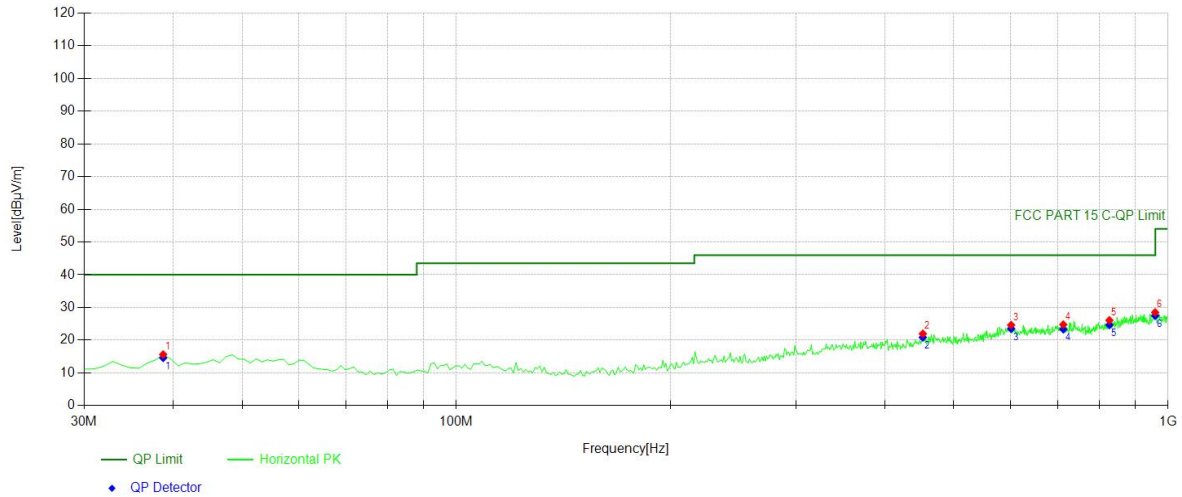


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	48.4484	26.93	-10.90	16.03	PK	40.00	23.97	Vertical
2	65.9259	28.47	-12.88	15.59	PK	40.00	24.41	Vertical
3	592.192	25.83	-0.66	25.17	PK	46.00	20.83	Vertical
4	694.144	25.14	-0.48	24.66	PK	46.00	21.34	Vertical
5	820.370	25.84	0.83	26.67	PK	46.00	19.33	Vertical
6	929.119	25.81	2.43	28.24	PK	46.00	17.76	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	48.4484	-10.90	14.72	40.00	25.28
2	65.9259	-12.88	14.19	40.00	25.81
3	592.1922	-0.66	23.77	46.00	22.23
4	694.1441	-0.48	23.44	46.00	22.56
5	820.3704	0.83	25.45	46.00	20.55
6	929.1191	2.43	27.20	46.00	18.80



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	38.7387	28.09	-12.45	15.64	PK	40.00	24.36	Horizontal
2	452.372	26.65	-4.66	21.99	PK	46.00	24.01	Horizontal
3	601.901	25.01	-0.38	24.63	PK	46.00	21.37	Horizontal
4	712.592	24.95	-0.17	24.78	PK	46.00	21.22	Horizontal
5	827.167	25.23	0.86	26.09	PK	46.00	19.91	Horizontal
6	959.219	25.10	3.40	28.50	PK	46.00	17.50	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	38.7387	-12.45	14.61	40.00	25.39
2	452.3724	-4.66	20.88	46.00	25.12
3	601.9019	-0.38	23.52	46.00	22.48
4	712.5926	-0.17	23.35	46.00	22.65
5	827.1672	0.86	24.66	46.00	21.34
6	959.2192	3.40	27.48	46.00	18.52

7.6 CONDUCTED EMISSION TEST

7.6.1 Applicable Standard

According to IC RSS-Gen 8.8

7.6.2 Conformance Limit

FCC Part 15, Subpart B, Class B

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note:		
1. The lower limit shall apply at the transition frequencies		
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

7.6.3 Test Configuration

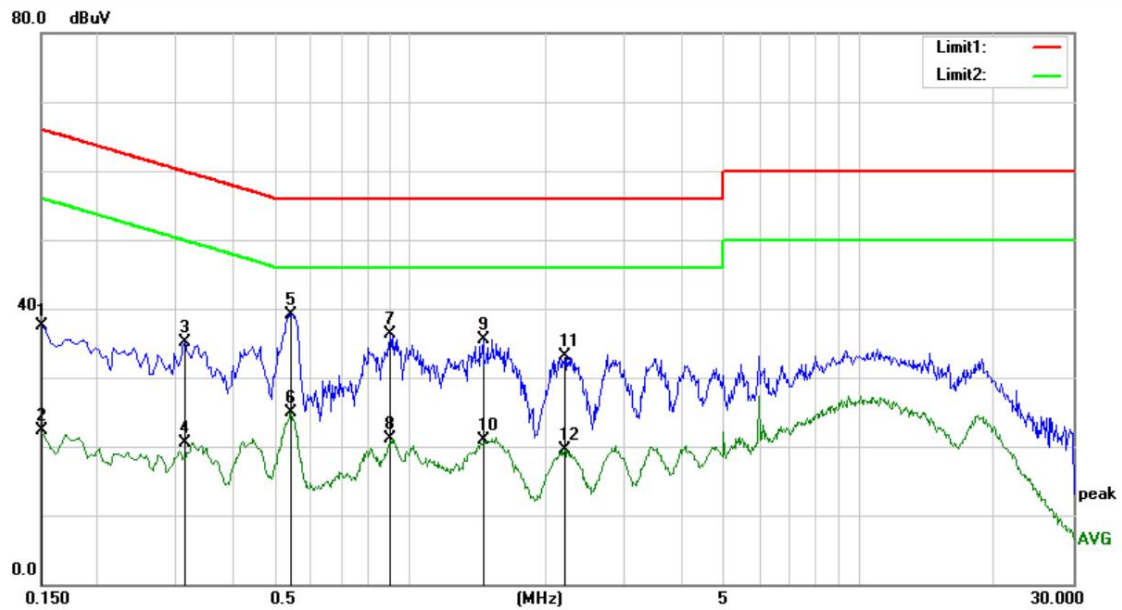
Test according to clause 6.3 conducted emission test setup 3.

7.6.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.
Maximum procedure was performed on the highest emissions to ensure EUT compliance.
Repeat above procedures until all frequency measured were complete.

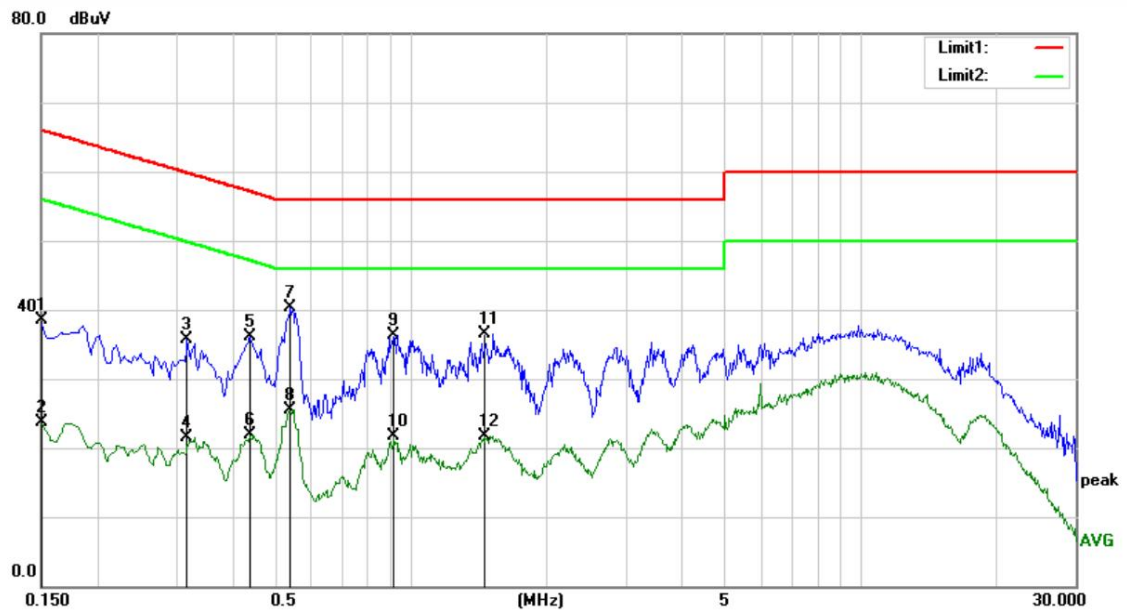
7.6.5 Test Results

Pass



Site: Conduction #1 Phase: **N** Temperature: 21.9

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	27.72	9.78	37.50	66.00	-28.50	QP	
2		0.1500	12.47	9.78	22.25	56.00	-33.75	AVG	
3		0.3140	25.50	9.53	35.03	59.86	-24.83	QP	
4		0.3140	11.02	9.53	20.55	49.86	-29.31	AVG	
5	*	0.5420	29.48	9.68	39.16	56.00	-16.84	QP	
6		0.5420	15.28	9.68	24.96	46.00	-21.04	AVG	
7		0.9020	26.48	9.74	36.22	56.00	-19.78	QP	
8		0.9020	11.40	9.74	21.14	46.00	-24.86	AVG	
9		1.4500	25.85	9.75	35.60	56.00	-20.40	QP	
10		1.4500	11.15	9.75	20.90	46.00	-25.10	AVG	
11		2.2020	23.29	9.82	33.11	56.00	-22.89	QP	
12		2.2020	9.77	9.82	19.59	46.00	-26.41	AVG	



Site Conduction #1				Phase: L1		Temperature: 21.9		
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV	dBuV	dB	Detector Comment
1		0.1500	28.78	9.78	38.56	66.00	-27.44	QP
2		0.1500	13.95	9.78	23.73	56.00	-32.27	AVG
3		0.3180	26.07	9.54	35.61	59.76	-24.15	QP
4		0.3180	11.92	9.54	21.46	49.76	-28.30	AVG
5		0.4380	26.51	9.65	36.16	57.10	-20.94	QP
6		0.4380	12.19	9.65	21.84	47.10	-25.26	AVG
7	*	0.5380	30.64	9.68	40.32	56.00	-15.68	QP
8		0.5380	15.85	9.68	25.53	46.00	-20.47	AVG
9		0.9180	26.49	9.73	36.22	56.00	-19.78	QP
10		0.9180	11.93	9.73	21.66	46.00	-24.34	AVG
11		1.4620	26.81	9.75	36.56	56.00	-19.44	QP
12		1.4620	11.99	9.75	21.74	46.00	-24.26	AVG

7.7 ANTENNA APPLICATION

7.7.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi..

7.7.2 Result

PASS

Temperature : 25°C ATM Pressure: 1011 mbar
Humidity : 45 % Test Engineer: ZGJ

The EUT integrated antenna, antenna gain is 2.85dBi

- ☐ Antenna uses a permanently attached antenna which is not replaceable.
- ☒ Not using a standard antenna jack or electrical connector for antenna replacement.
- ☐ The antenna has to be professionally installed (please provide method of installation).

Which in accordance to section 15.203, please refer to the internal photos.

Detail of factor for radiated emission:

Frequency(MHz)	Ant_F(dB)	Cab_L(dB)	Preamp(dB)	Correct Factor(dB)
0.009	20.6	0.03	\	20.63
0.15	20.7	0.1	\	20.8
1	20.9	0.15	\	21.05
10	20.1	0.28	\	20.38
30	18.8	0.45	\	19.25
30	11.7	0.62	27.9	-15.58
100	12.5	1.02	27.8	-14.28
300	12.9	1.91	27.5	-12.69
600	19.2	2.92	27	-4.88
800	21.1	3.54	26.6	-1.96
1000	22.3	4.17	26.2	0.27
1000	25.6	1.76	41.4	-14.04
3000	28.9	3.27	43.2	-11.03
5000	31.1	4.2	44.6	-9.3
8000	36.2	5.95	44.7	-2.55
10000	38.4	6.3	43.9	0.8
12000	38.5	7.14	42.3	3.34
15000	40.2	8.15	41.4	6.95
18000	45.4	9.02	41.3	13.12
18000	37.9	1.81	47.9	-8.19
21000	37.9	1.95	48.7	-8.85
25000	39.3	2.01	42.8	-1.49
28000	39.6	2.16	46.0	-4.24
31000	41.2	2.24	44.5	-1.06
34000	41.5	2.29	46.6	-2.81
37000	43.8	2.30	46.4	-0.3
40000	43.2	2.50	42.2	3.5

--- End of Report ---

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