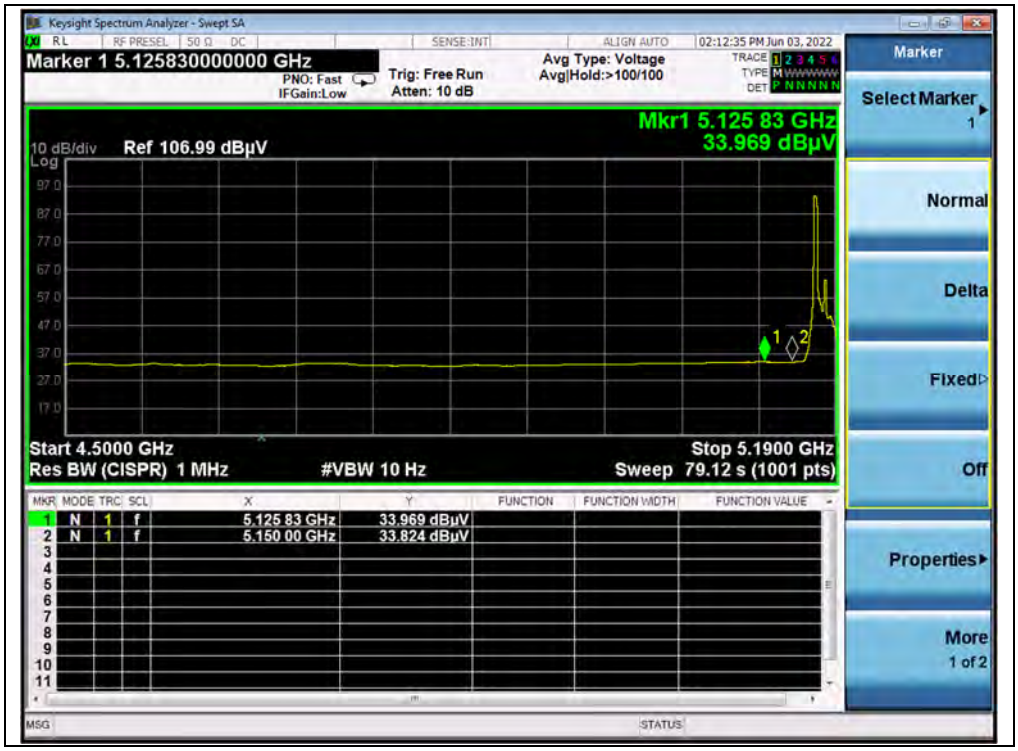
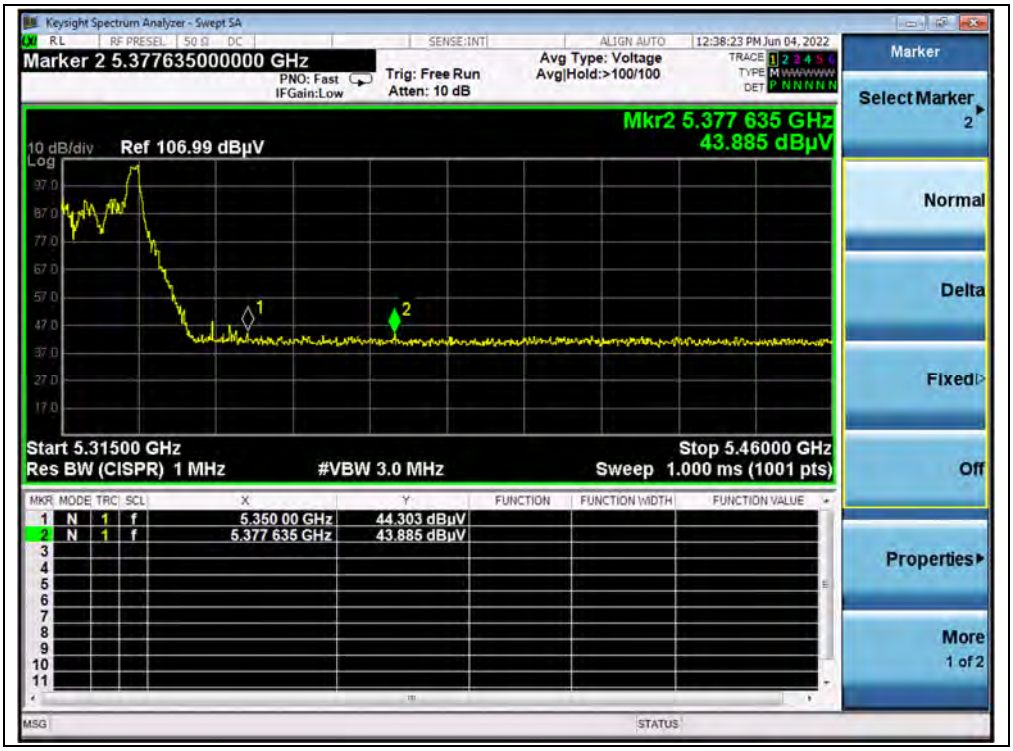
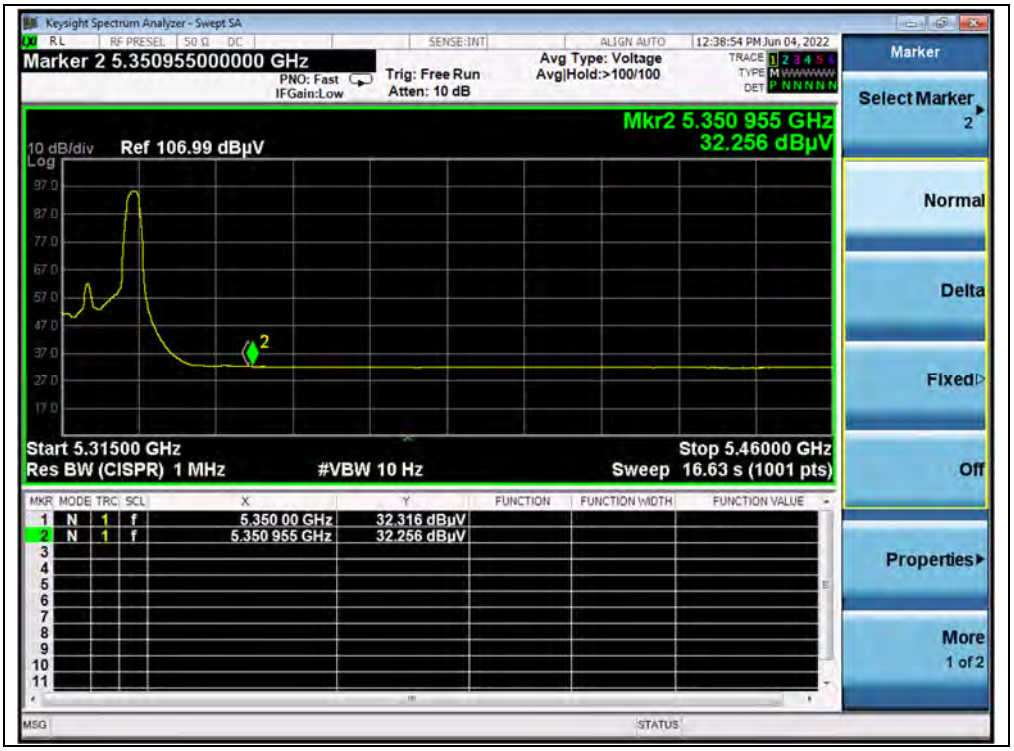


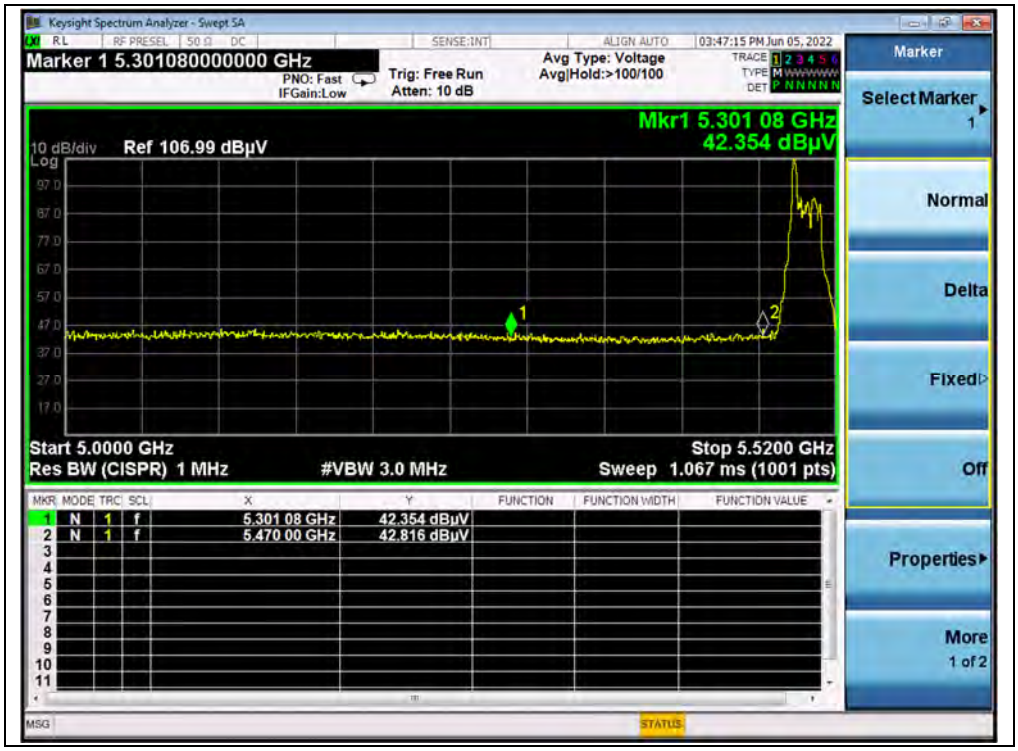
(AVERAGE, Channel 36, 802.11ax (HEW20) RU26)



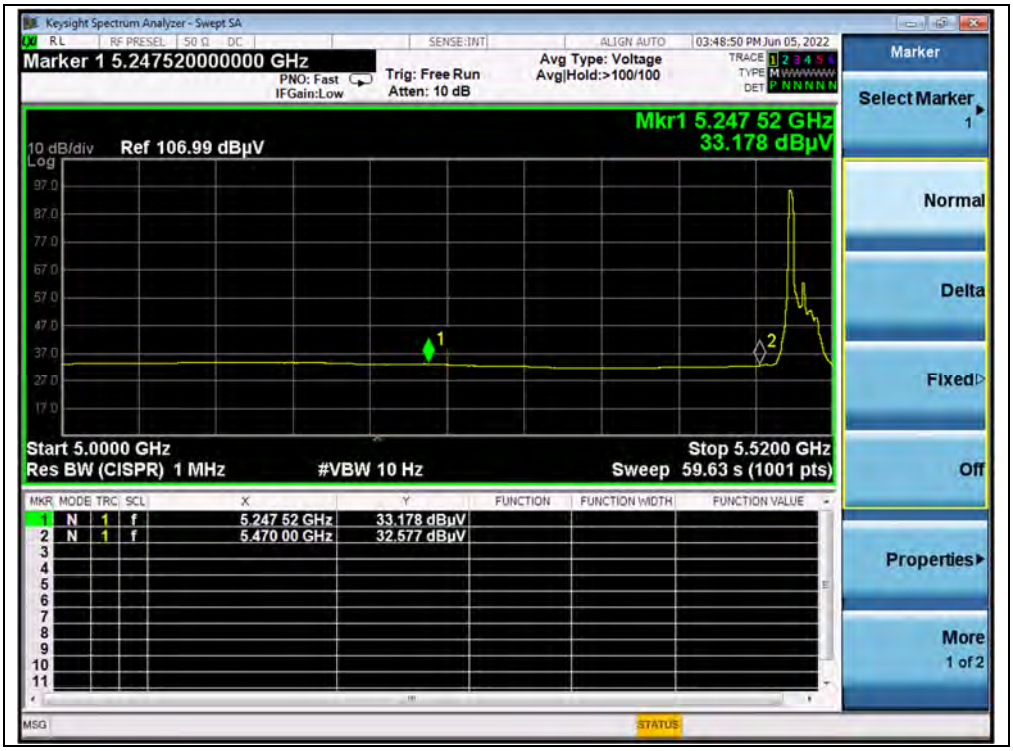
(PEAK, Channel 64, 802.11ax (HEW20) RU26)



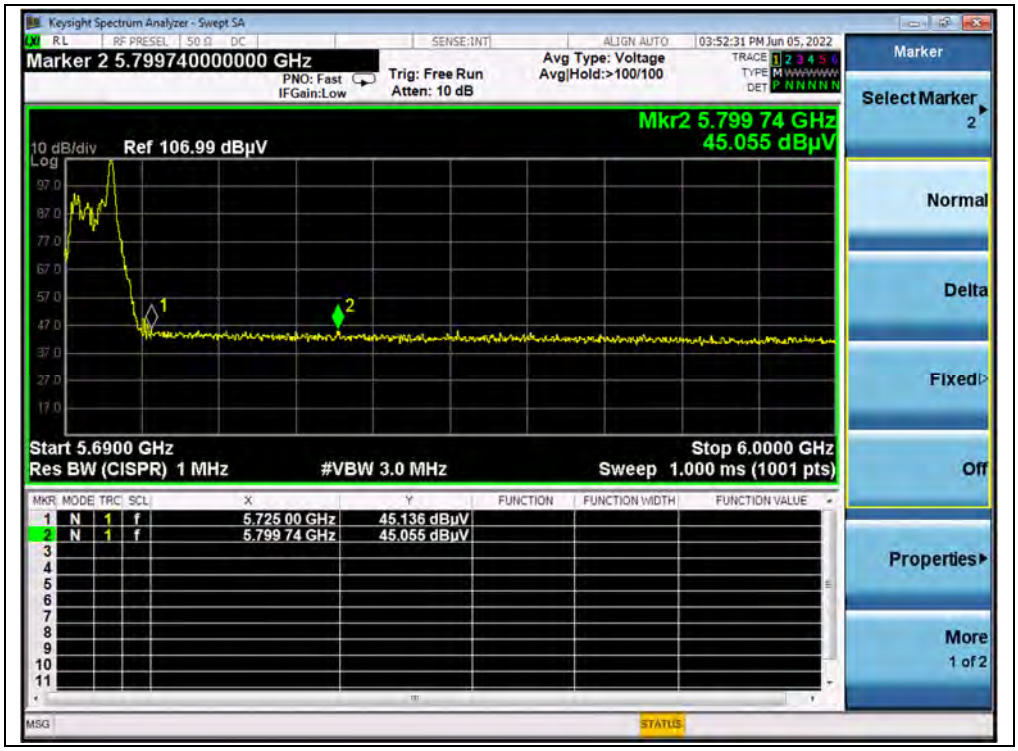
(AVERAGE, Channel 64, 802.11ax (HEW20) RU26)



(PEAK, Channel100, 802.11ax (HEW20) RU26)



(AVERAGE, Channel 100, 802.11ax (HEW20) RU26)



(PEAK, Channel 144, 802.11ax (HEW20) RU26)

(PEAK, Channel 149, 802.11ax (HEW20) RU26)

(PEAK, Channel 165, 802.11ax (HEW20) RU26)

2.9. Radiated Emission

2.9.1. Requirement

The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(2) For transmitters operating in the 5.25–5.35 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.
(3) For transmitters operating in the 5.47–5.725 GHz band: all emissions outside of the 5.47–5.725 GHz band shall not exceed an EIRP of -27dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
The following formula is used to convert the equipment isotropic radiated power(e.i.r.p.) to field strength (dBμV/m);

$$E = 1000000 \times \sqrt{30P} / 3 \ \mu V/m$$

where P is the EIRP in Watts

Therefore: -27 dBm/MHz = 68.23 dBuV/m

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. 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:

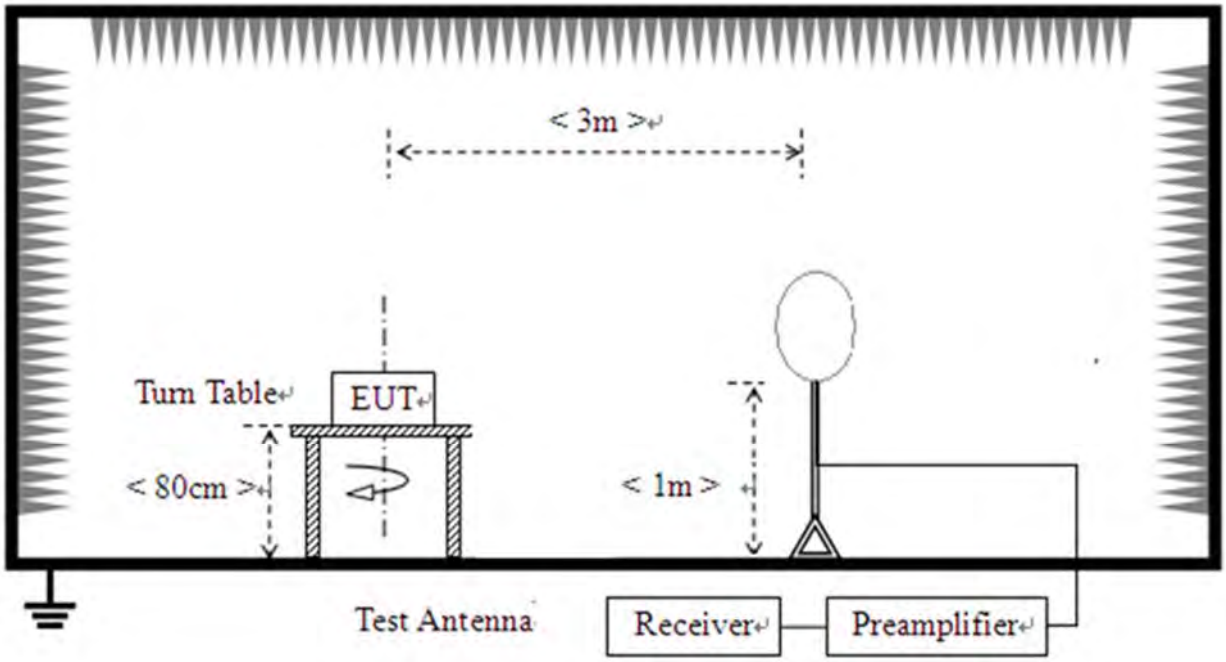
Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

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.
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).

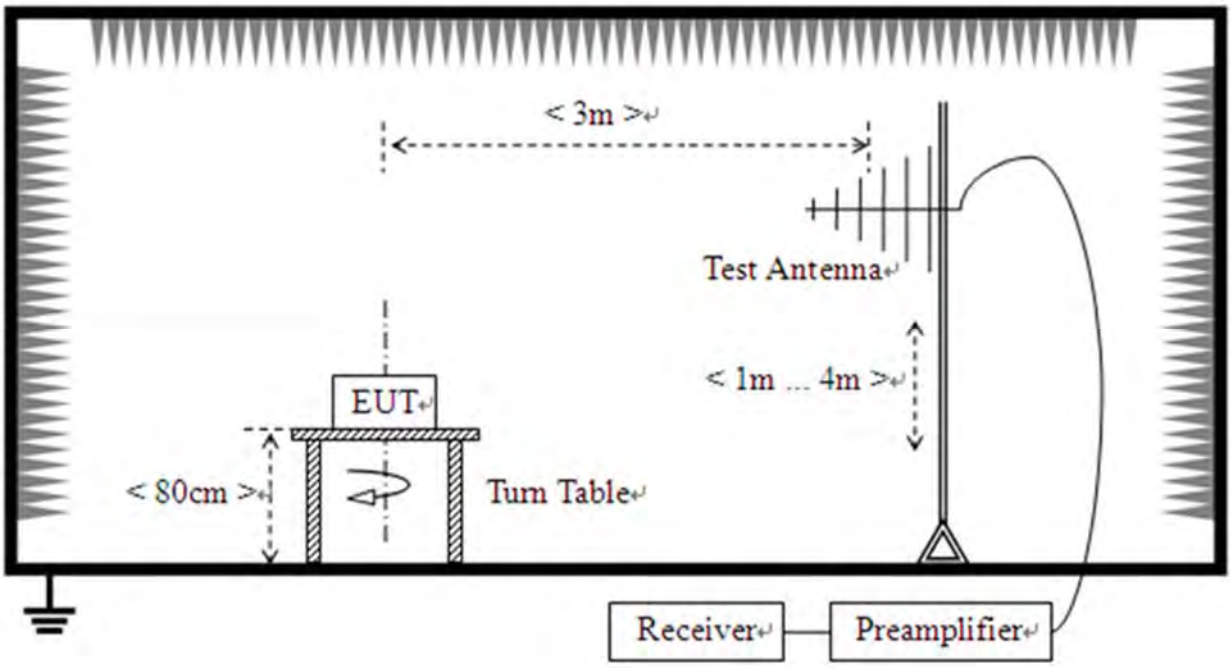
2.9.2. Test Description

Test Setup:

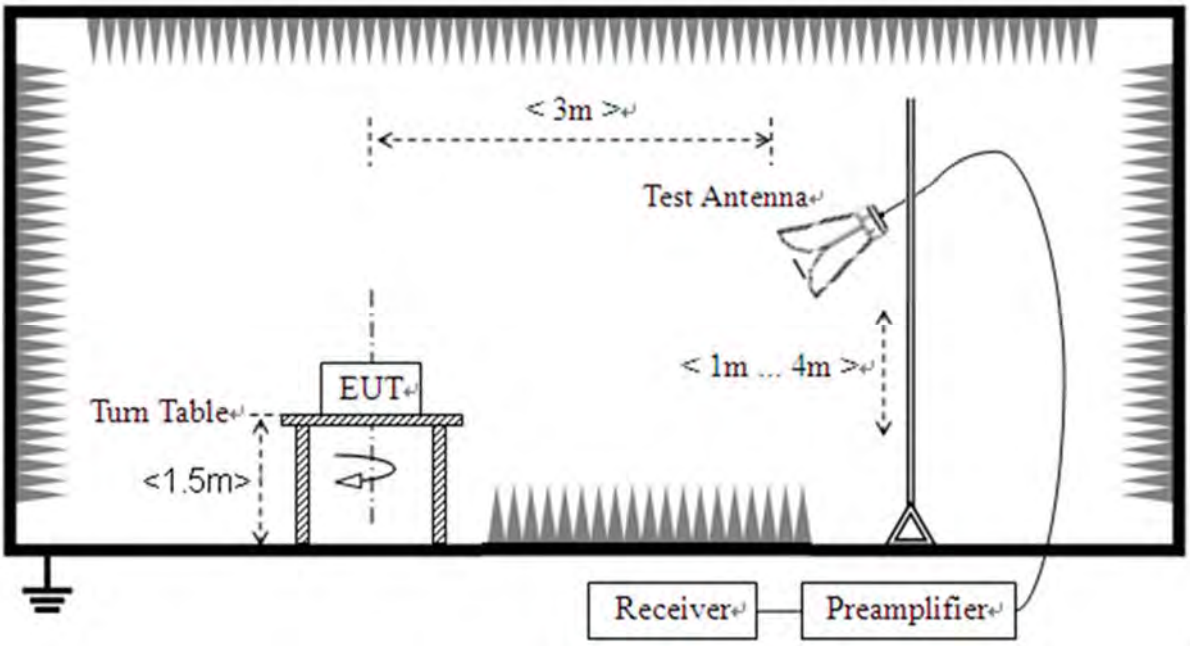
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



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.

2.9.3. Test Result

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 [dBμV/m] $= U_R + A_T + A_{Factor}$ [dB]; $A_T = L_{Cable\ loss}$ [dB]$-G_{preamp}$ [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.

Note 1: 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.

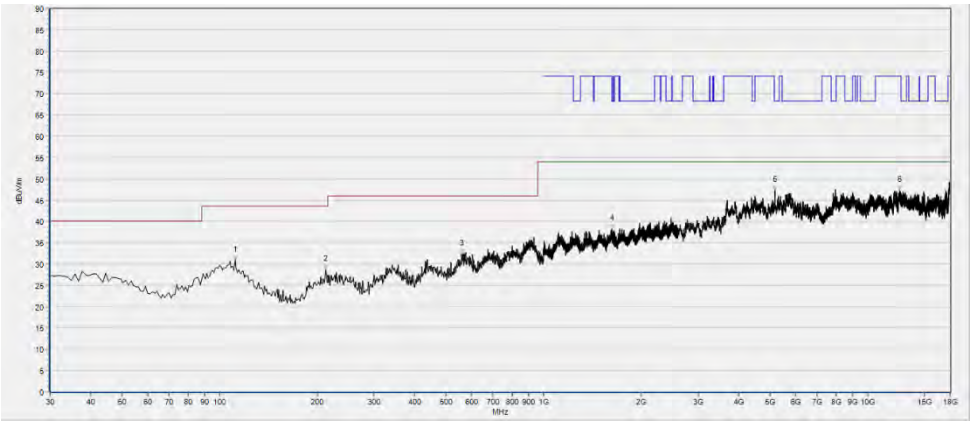
Note 2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note 3: 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.

Note 4: All test modes and bandwidth were considered and evaluated respectively by performing full test, only the worst data were recorded for each bandwidth.

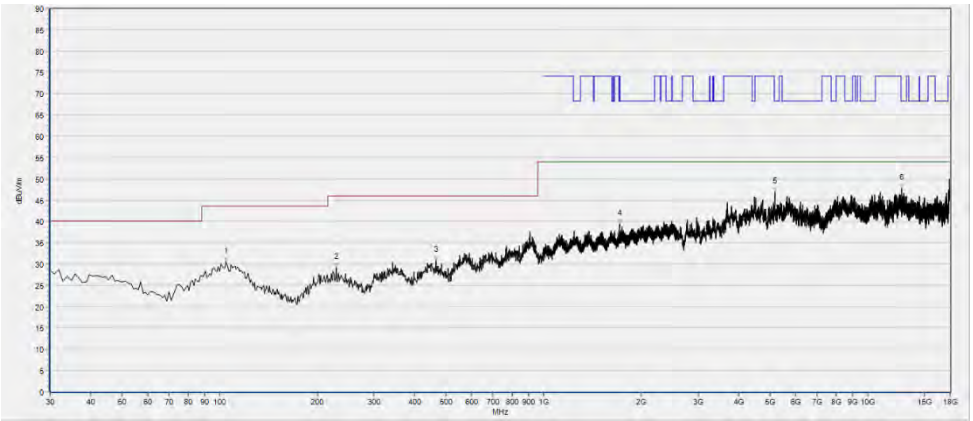
802.11a Mode

Plot for Channel 36



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
111.562	30.86	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
212.543	28.58	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
559.179	32.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1627.409	38.28	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5184.637	47.26	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12538.068	47.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

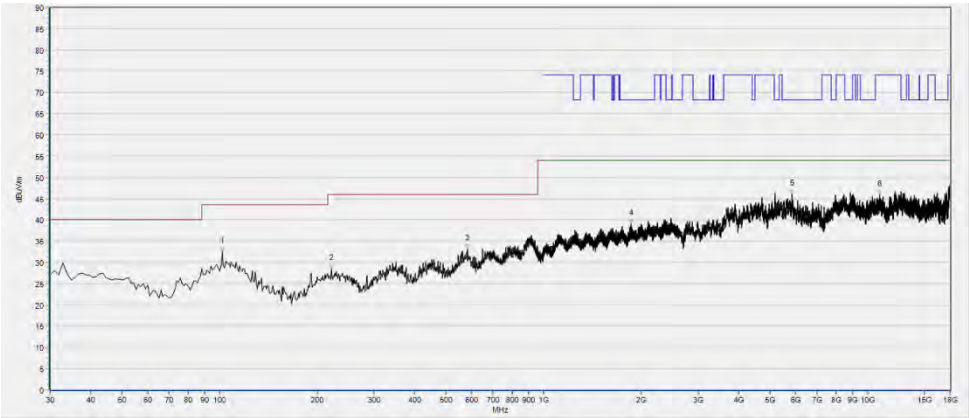
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	30.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.049	29.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
464.995	30.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1715.438	39.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5184.637	46.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12738.308	47.72	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

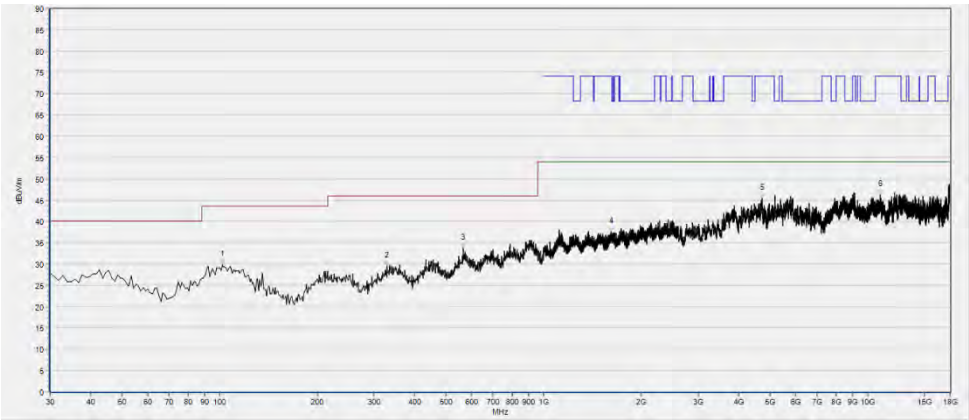
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



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
101.852	32.59	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.281	28.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	33.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1863.755	39.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5843.889	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10899.180	45.91	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

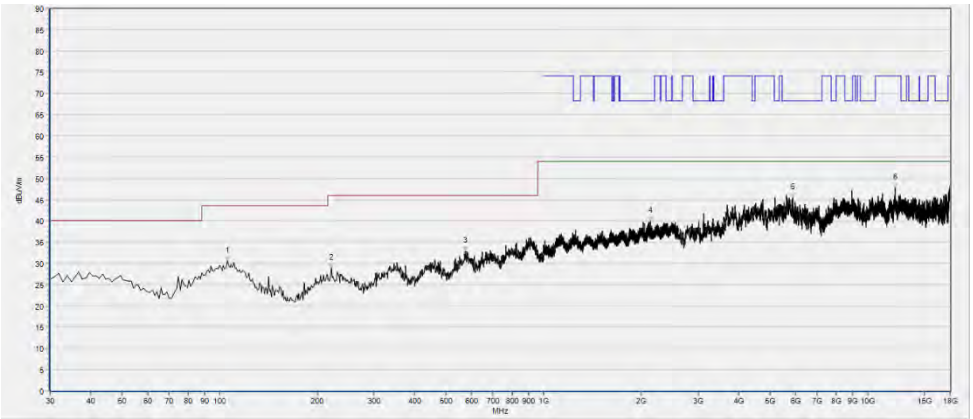
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	29.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
329.059	29.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.976	33.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1619.406	37.59	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4731.786	45.36	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10939.228	46.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

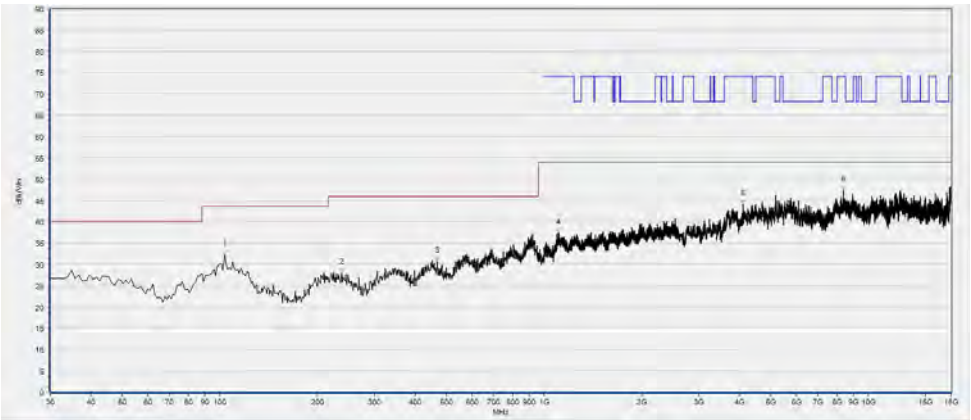
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



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
105.736	30.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.281	28.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
573.744	32.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2138.513	39.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5871.614	45.41	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12177.636	47.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

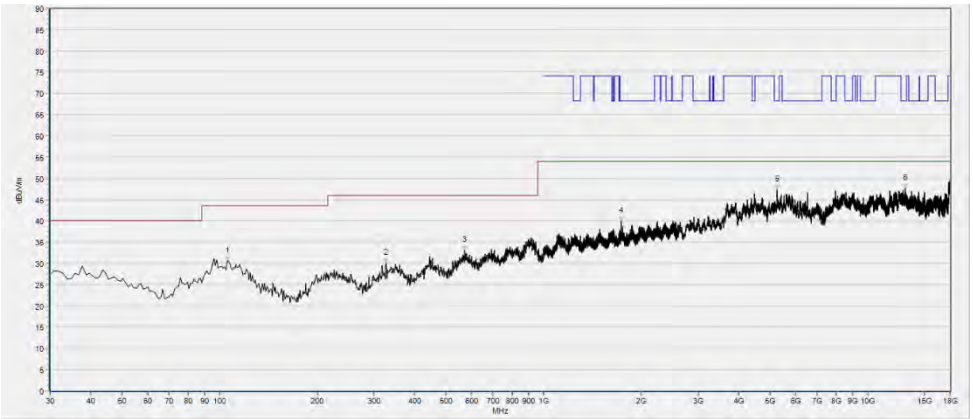
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	32.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	27.98	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
468.879	30.70	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
1109.370	37.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4115.663	44.01	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8382.316	47.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

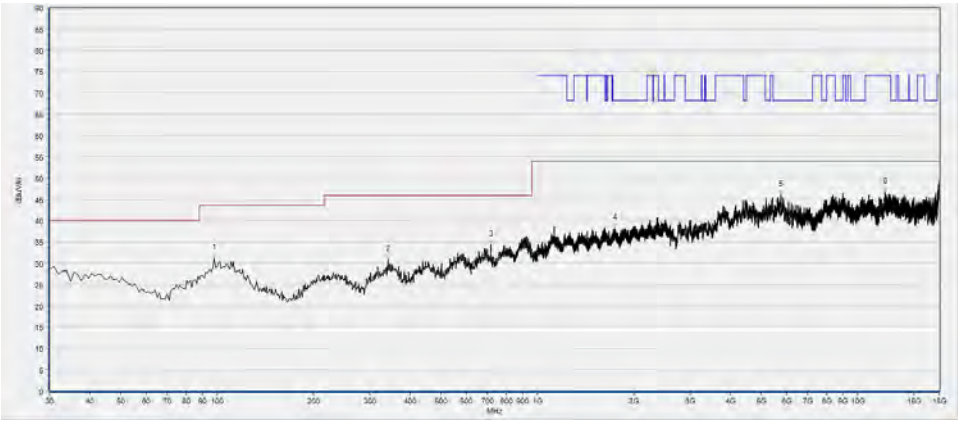
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



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
105.736	30.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
327.117	29.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
571.802	33.03	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1737.312	39.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5261.652	47.29	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13074.095	47.53	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

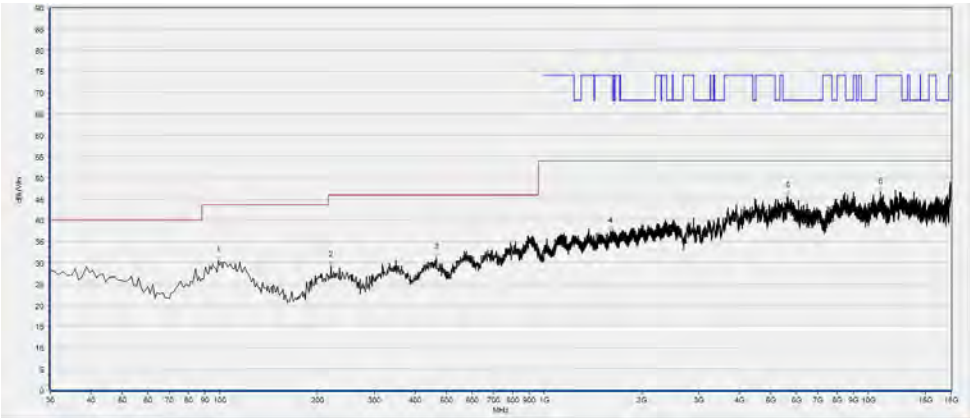
(Antenna Horizontal, 30MHz to 18GHz)



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
97.968	31.14	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
341.682	30.79	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
716.476	34.28	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1742.114	38.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5754.551	46.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12211.522	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

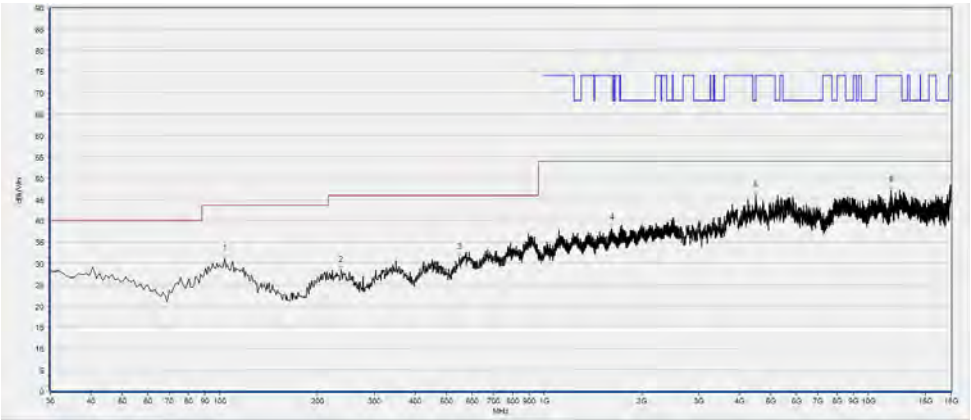
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



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
98.939	30.54	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
220.310	29.26	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
465.966	31.14	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1601.801	37.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.810	45.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10905.341	46.56	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

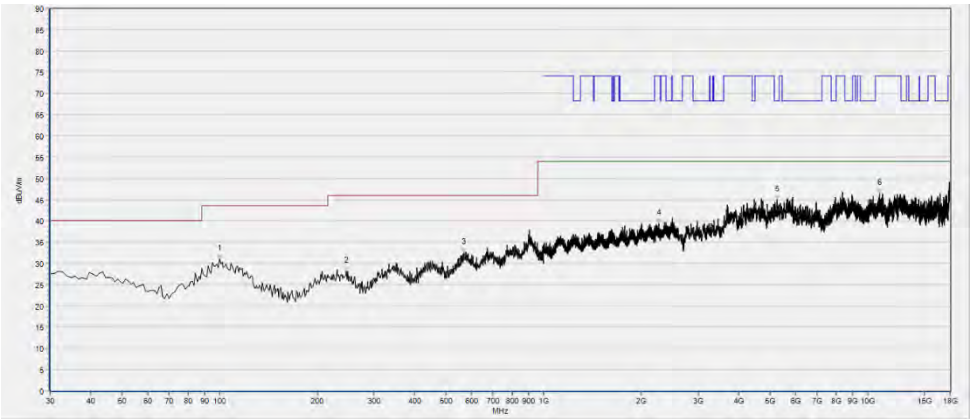
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	30.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
236.817	28.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
547.528	31.42	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1615.138	38.26	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4500.740	45.94	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11758.672	47.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

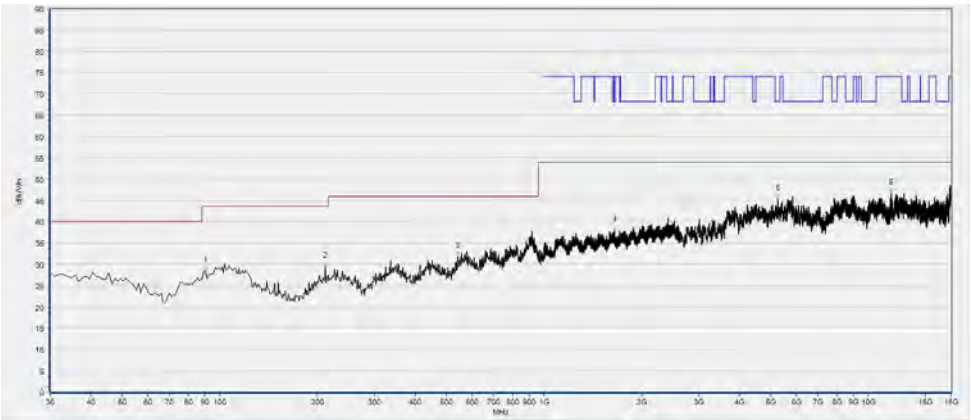
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



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
99.910	30.95	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
246.527	28.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
568.889	32.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2273.491	39.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5267.814	44.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10893.019	46.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

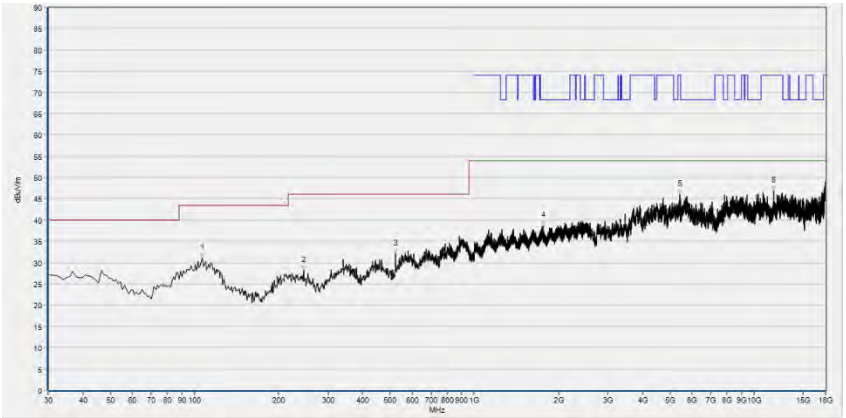
(Antenna Horizontal, 30MHz to 18GHz)



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
90.200	28.57	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
211.572	29.49	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
543.644	31.88	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1654.085	38.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5267.814	45.38	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11746.349	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

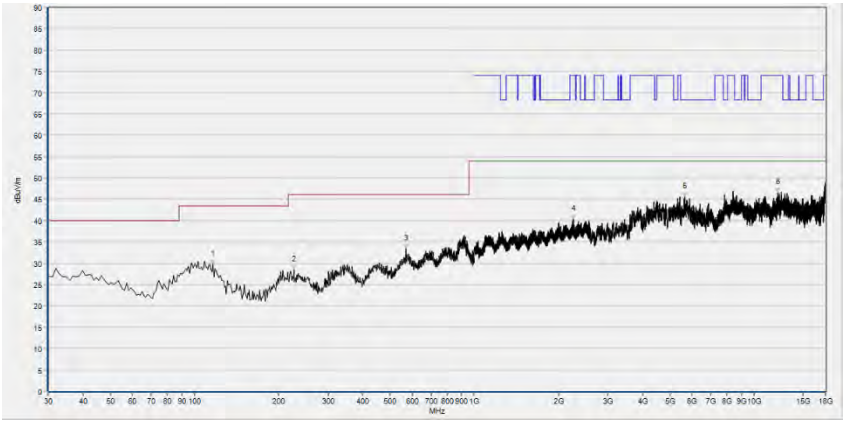
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100



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
106.707	31.15	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
245.556	28.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
523.253	32.05	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1761.854	38.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5765.844	46.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12615.083	46.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

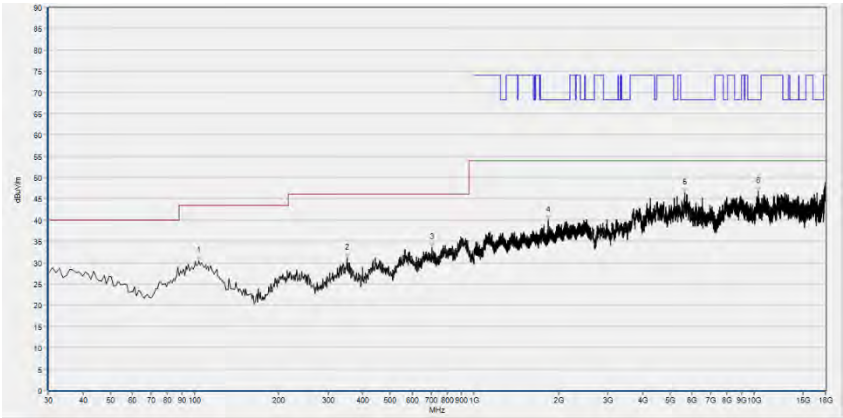
(Antenna Horizontal, 30MHz to 18GHz)



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
116.416	29.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.136	28.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
568.889	33.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2264.955	40.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5655.971	45.51	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	46.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

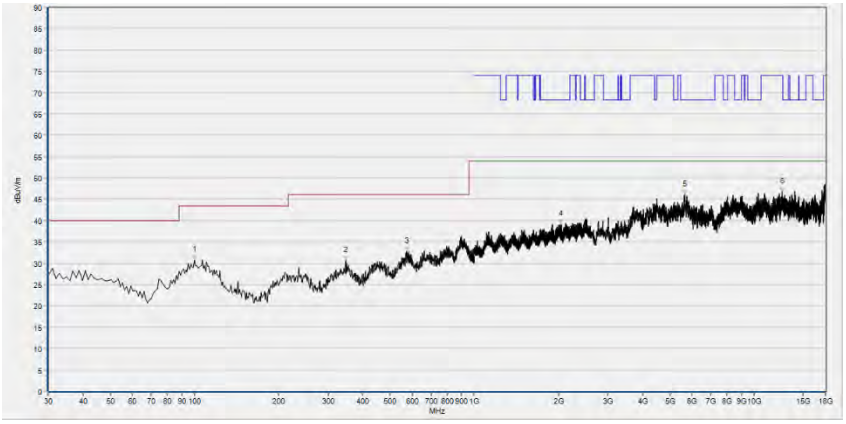
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



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
103.794	30.47	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
350.420	31.11	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
703.854	33.61	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1840.280	39.97	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5640.568	46.34	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10338.508	46.69	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

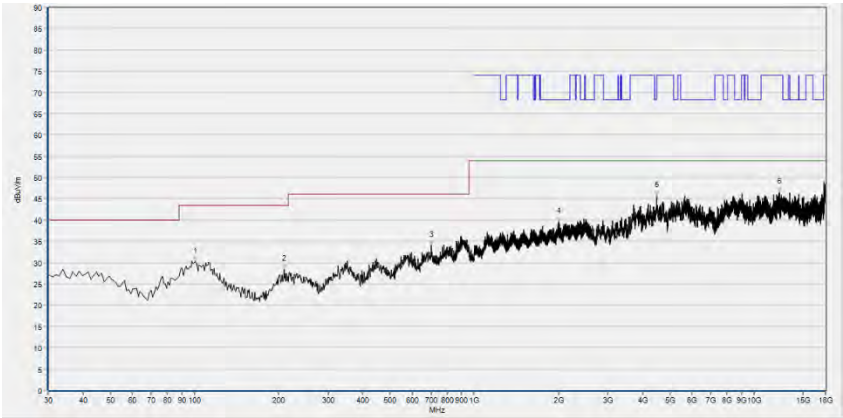
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	30.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
346.537	30.53	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
572.773	32.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2036.079	39.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5662.132	46.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12593.519	46.76	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

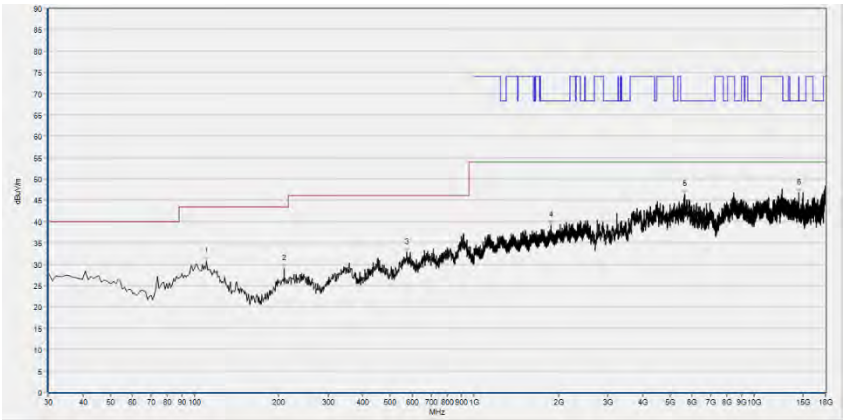
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



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
100.881	30.31	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
208.659	28.44	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
700.941	34.07	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2006.736	39.63	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4476.095	45.79	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12307.021	46.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

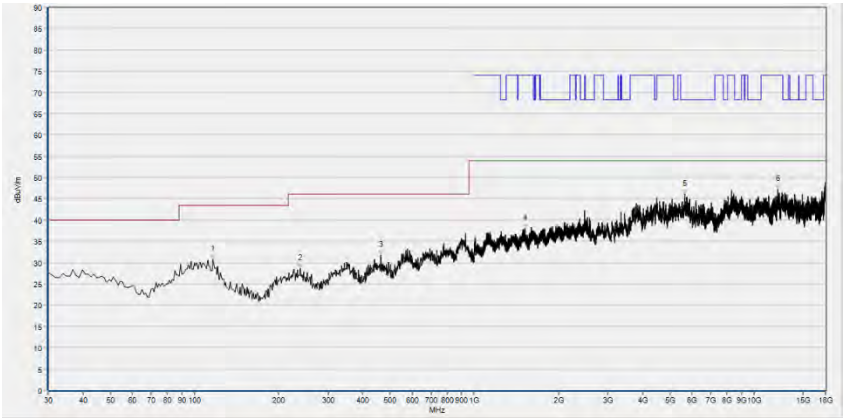
(Antenna Horizontal, 30MHz to 18GHz)



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
110.591	30.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
208.659	29.02	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
573.744	32.82	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1883.494	39.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5649.810	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
14429.566	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

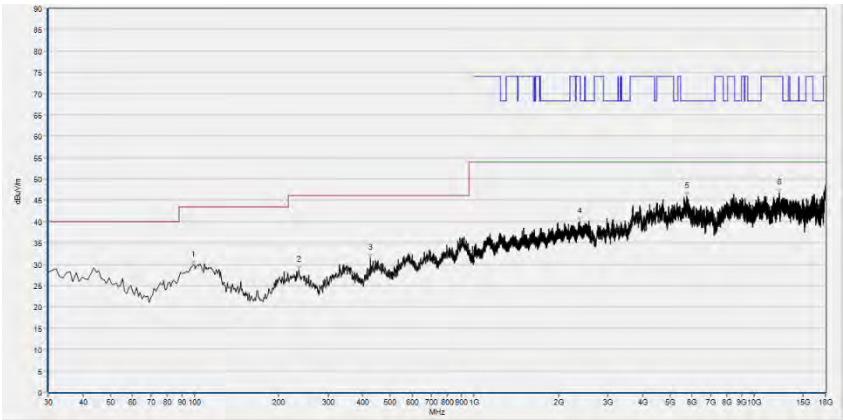
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



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
116.416	30.75	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	28.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
464.024	31.73	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1522.307	38.00	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.810	46.05	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12143.749	47.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

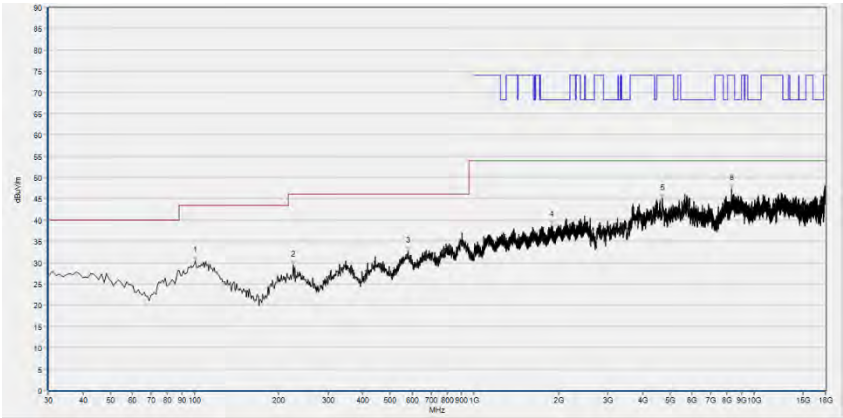
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	29.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
235.846	28.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
426.156	31.36	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2385.529	39.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5748.390	45.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12300.860	46.75	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

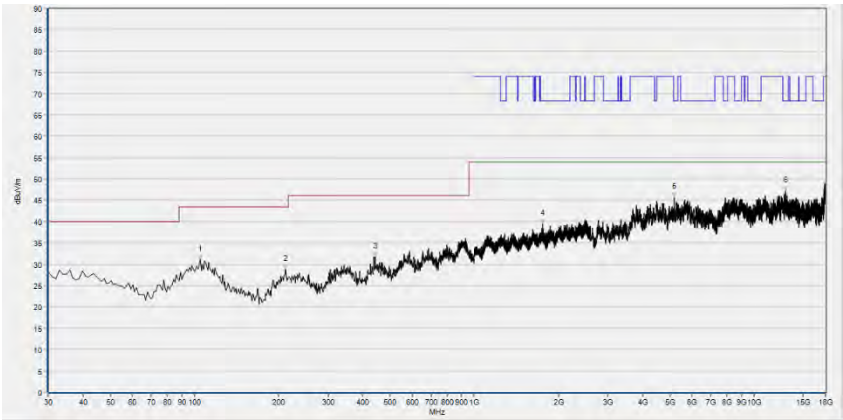
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



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
100.881	30.42	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
225.165	29.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
580.541	32.70	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1891.497	38.78	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4707.141	45.16	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8305.301	47.40	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

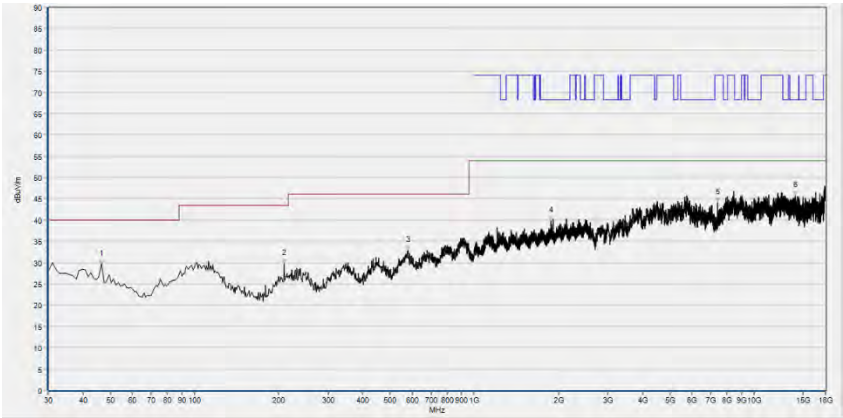
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	31.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
211.572	28.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
442.663	31.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1754.385	39.45	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5172.314	45.71	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12926.225	47.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

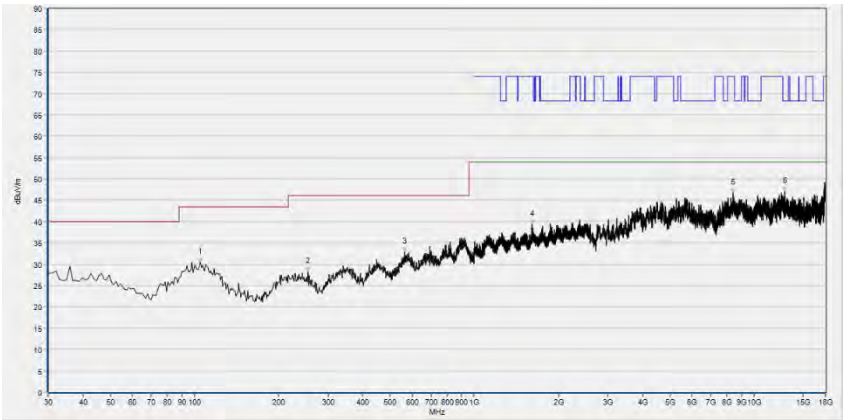
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



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
46.507	29.54	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
208.659	29.79	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
579.570	32.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1884.562	39.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
7399.600	44.10	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14053.731	45.73	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

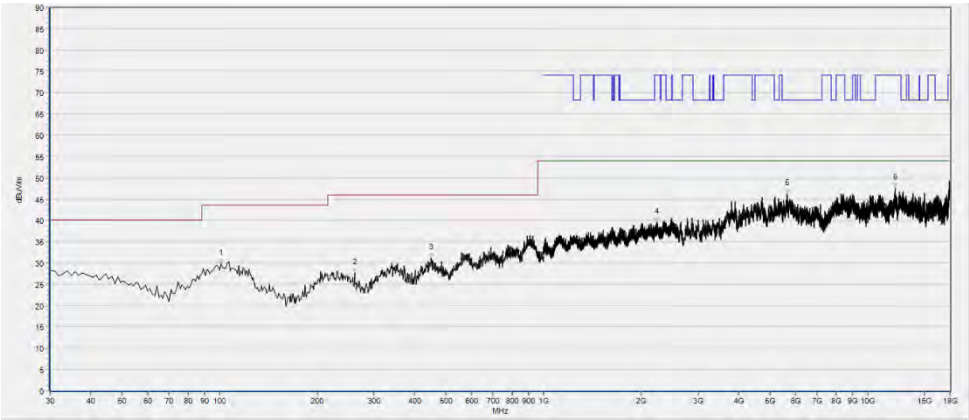


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
104.765	30.37	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
254.294	28.37	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
565.005	32.95	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1605.002	39.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8406.961	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12901.580	47.06	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

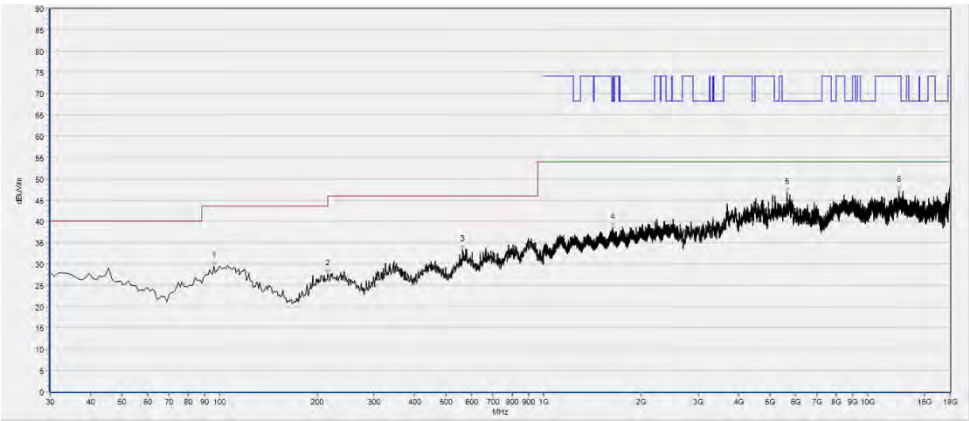
802.11n (HT40) mode

Plot for Channel 38



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
100.881	29.89	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
261.091	27.61	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
450.430	31.25	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2231.877	39.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5646.729	46.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12180.716	47.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

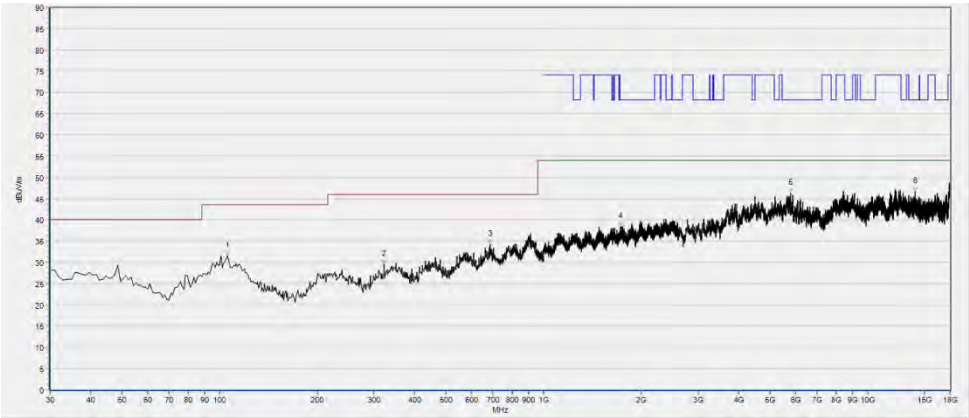
(Antenna Horizontal, 30MHz to 18GHz)



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
96.026	29.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
215.455	27.67	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
563.063	33.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1637.546	38.47	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5643.649	46.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12516.503	47.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

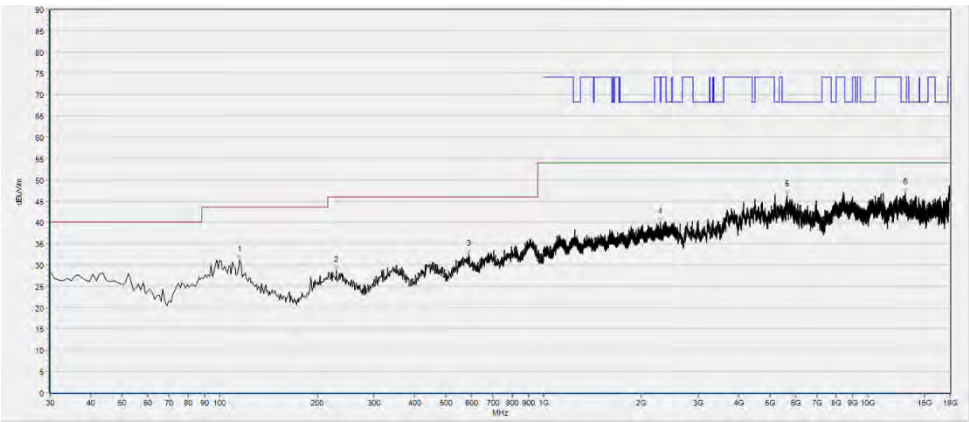
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 46



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
105.736	31.55	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
322.262	29.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
683.463	34.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1725.575	38.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5779.196	46.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14019.844	46.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

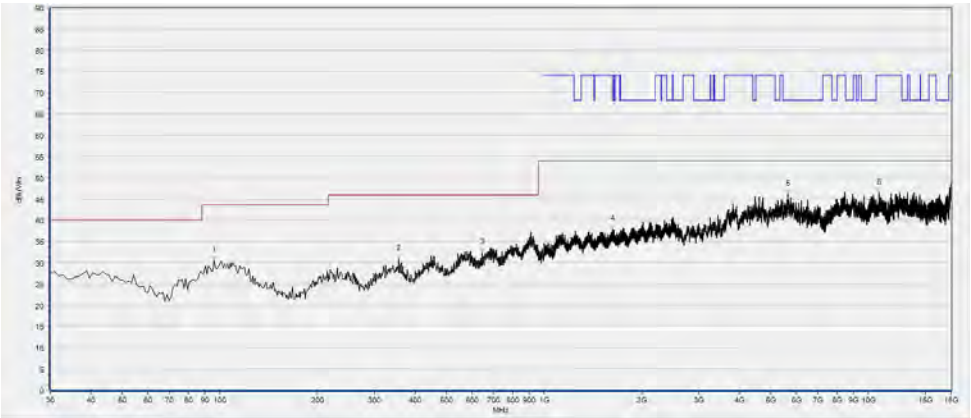
(Antenna Horizontal, 30MHz to 18GHz)



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
115.445	31.21	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
230.020	28.66	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
588.308	32.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2291.631	40.03	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5643.649	46.48	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13061.772	47.00	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

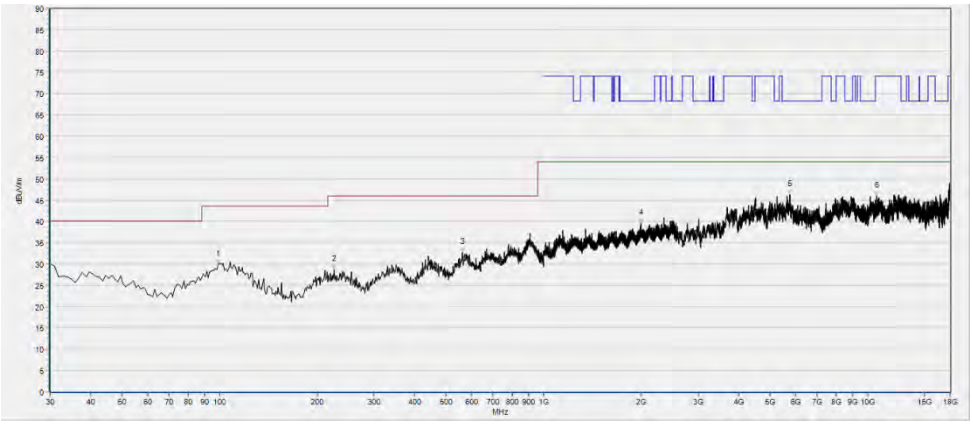
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 54



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
96.026	30.51	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
356.246	30.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
644.625	32.31	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1628.476	37.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5655.971	46.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10812.923	46.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

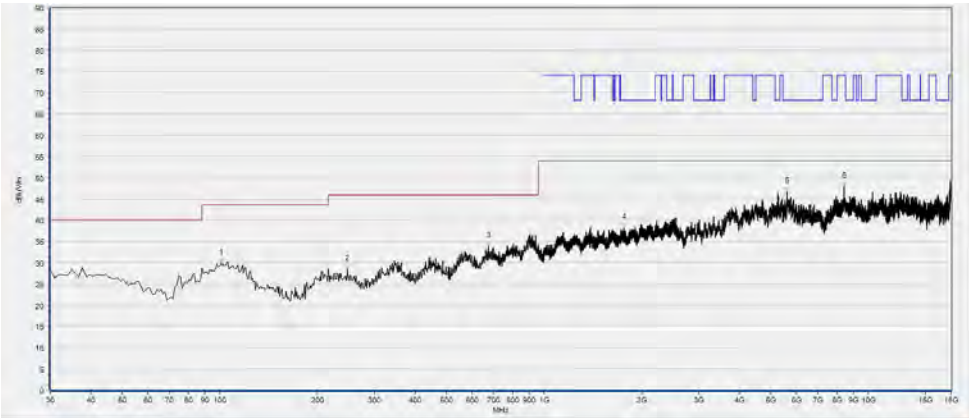
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	29.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.136	28.64	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
561.121	32.70	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1999.800	39.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5773.035	46.18	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10674.295	45.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

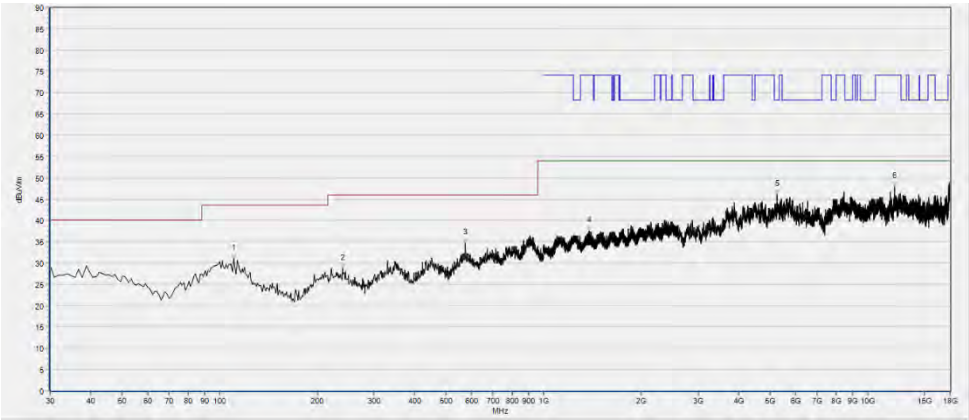
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 62



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
100.881	29.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
247.497	28.48	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
672.783	33.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1761.854	38.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5631.326	46.82	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8434.687	47.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

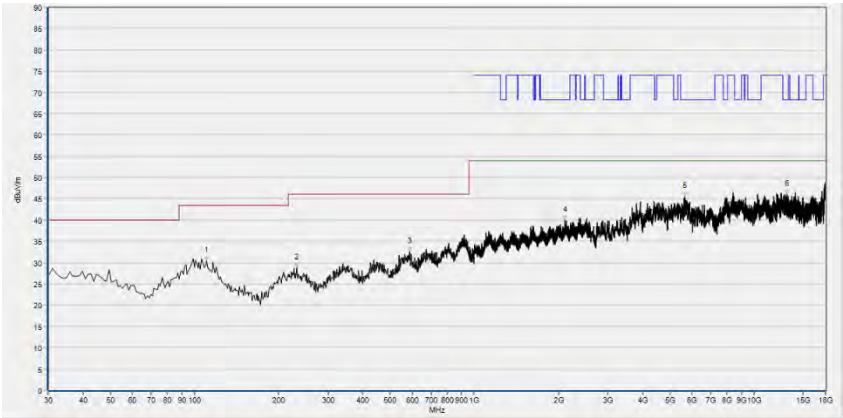
(Antenna Horizontal, 30MHz to 18GHz)



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
110.591	31.03	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
239.730	28.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.715	34.62	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1383.595	37.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5261.652	46.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12149.910	47.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

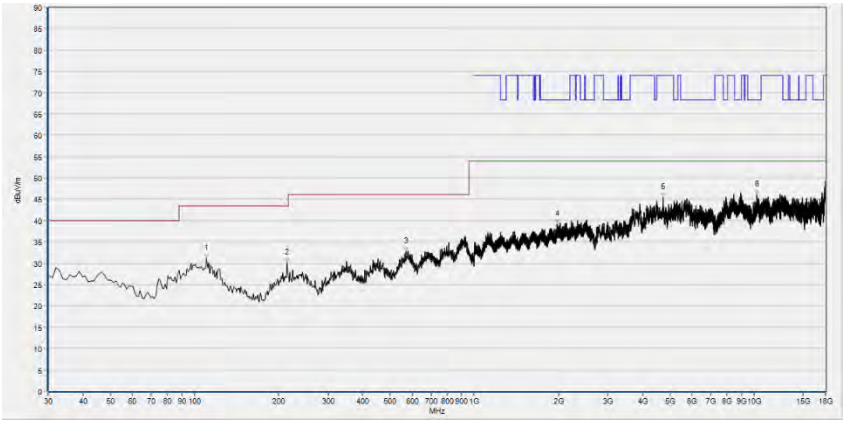
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 102



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
110.591	30.46	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
231.962	28.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
588.308	32.61	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2108.636	39.96	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5665.213	45.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13080.256	46.10	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

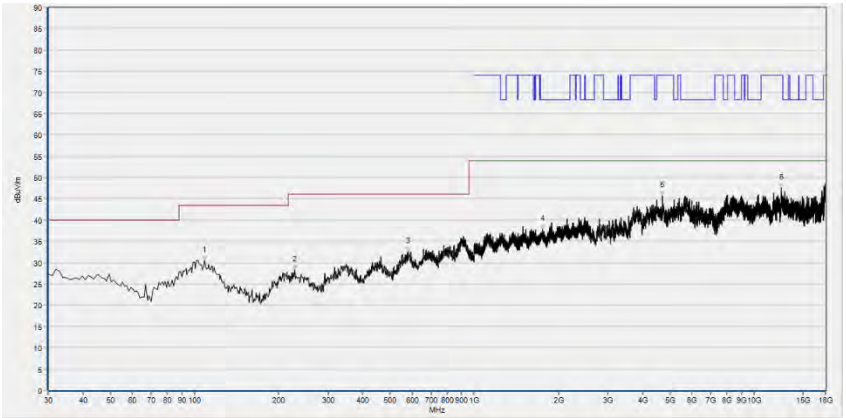
(Antenna Horizontal, 30MHz to 18GHz)



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
110.591	31.10	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
213.514	30.18	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
568.889	32.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1983.261	39.10	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4725.625	45.35	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10221.444	45.99	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

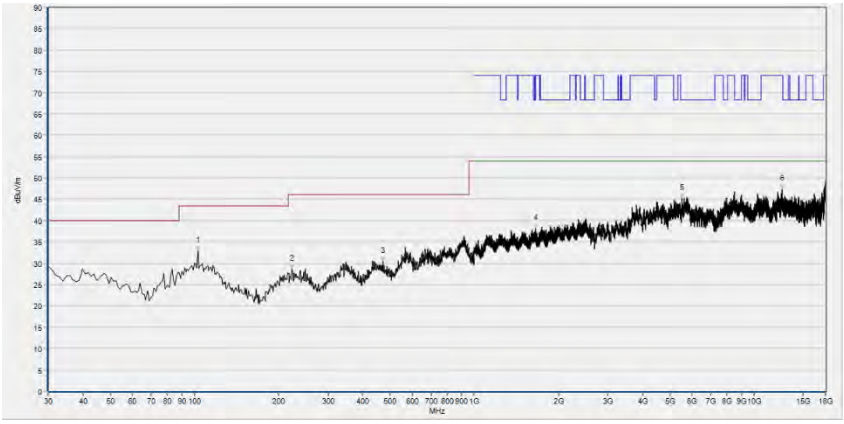
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 126



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
108.649	30.41	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	28.33	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
578.599	32.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1749.583	37.90	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4713.303	45.75	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12525.745	47.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

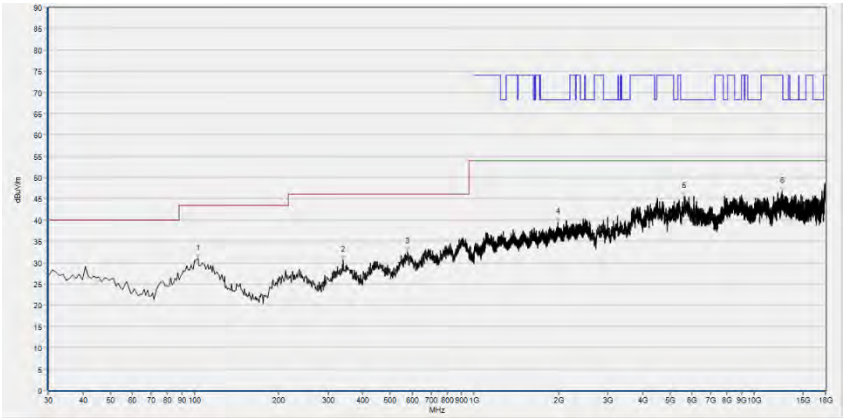
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	32.94	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
223.223	28.60	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
471.792	30.47	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1653.551	38.17	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5532.747	45.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12605.841	47.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

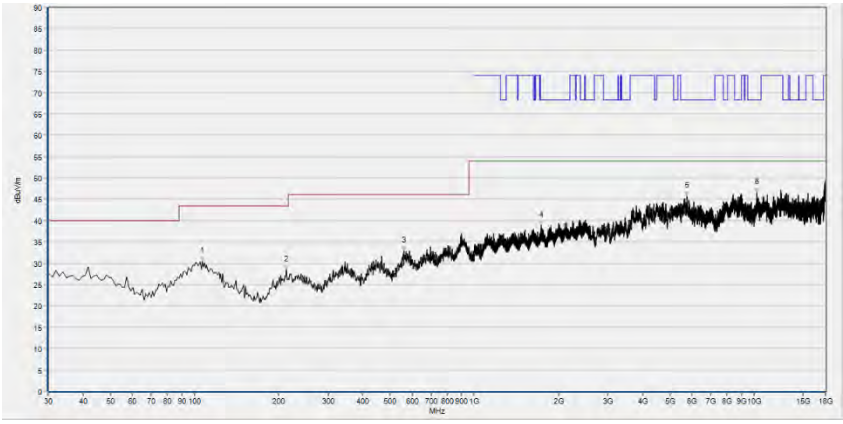
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 142



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
102.823	30.88	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
339.740	30.69	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
577.628	32.52	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1986.462	39.45	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5634.407	45.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12559.632	46.74	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

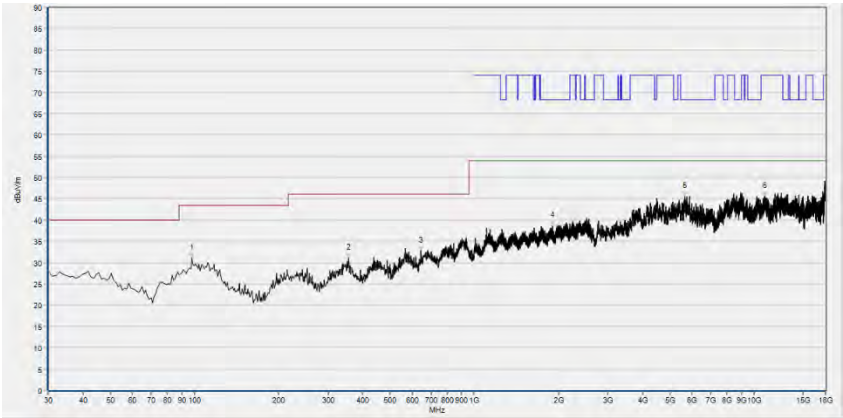
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	30.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
212.543	28.50	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
561.121	32.89	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1737.846	38.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5766.873	45.80	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10236.847	46.52	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

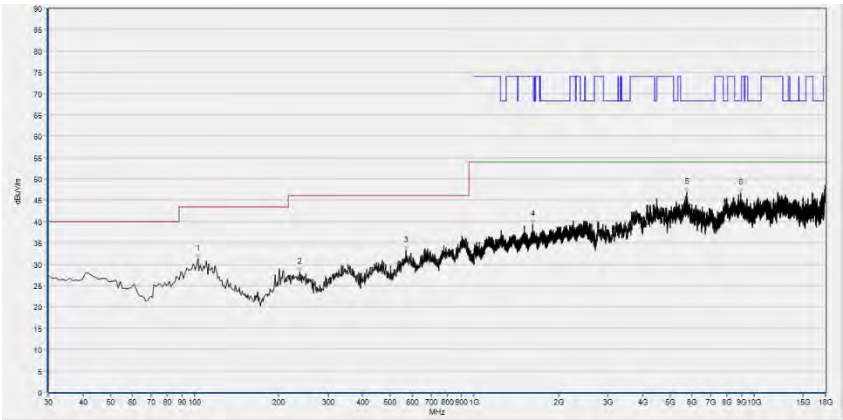
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 151



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
97.968	31.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
356.246	31.08	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
644.625	32.72	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1906.969	38.60	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	45.52	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10920.744	45.57	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

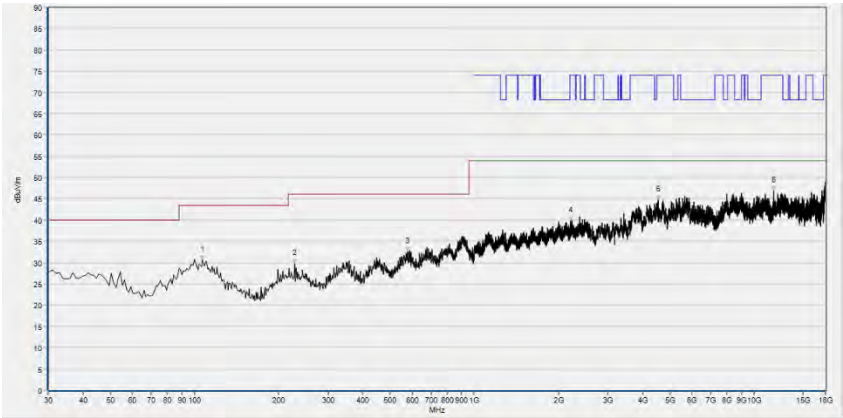
(Antenna Horizontal, 30MHz to 18GHz)



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
102.823	31.29	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
237.788	28.06	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
568.889	33.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1621.541	39.33	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5736.067	46.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8942.989	46.66	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

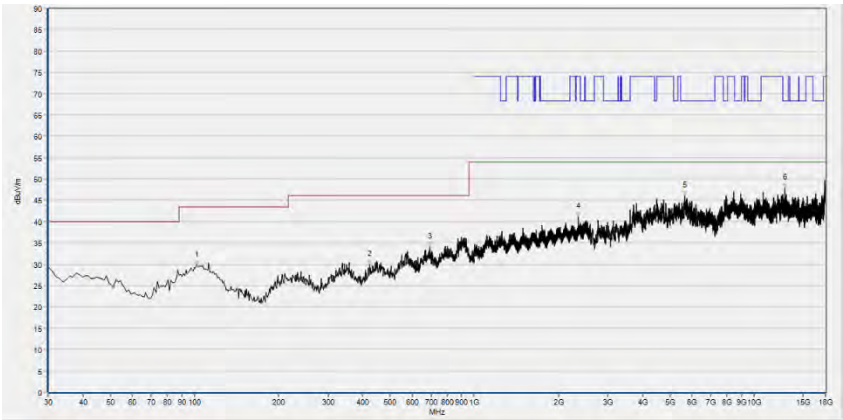
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 159



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
106.707	30.66	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
228.078	29.77	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
576.657	32.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2208.936	39.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4528.466	44.77	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11740.188	46.89	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

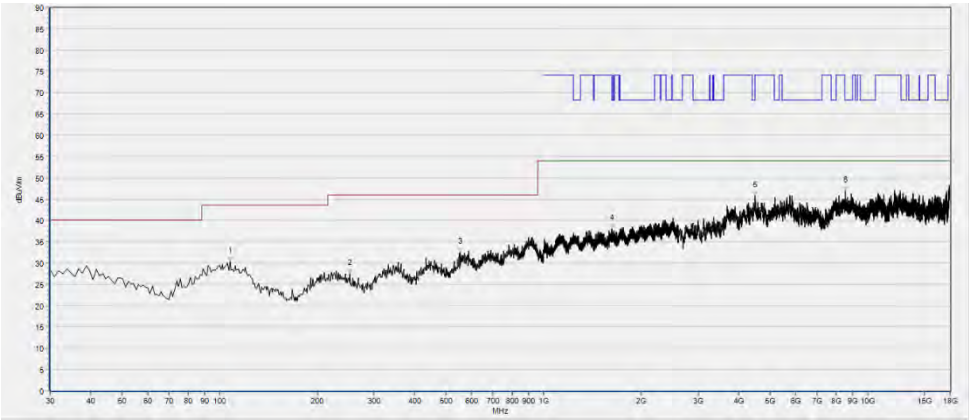


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
101.852	29.83	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
423.243	29.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
693.173	34.12	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2354.585	41.13	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5637.487	46.14	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12910.822	47.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

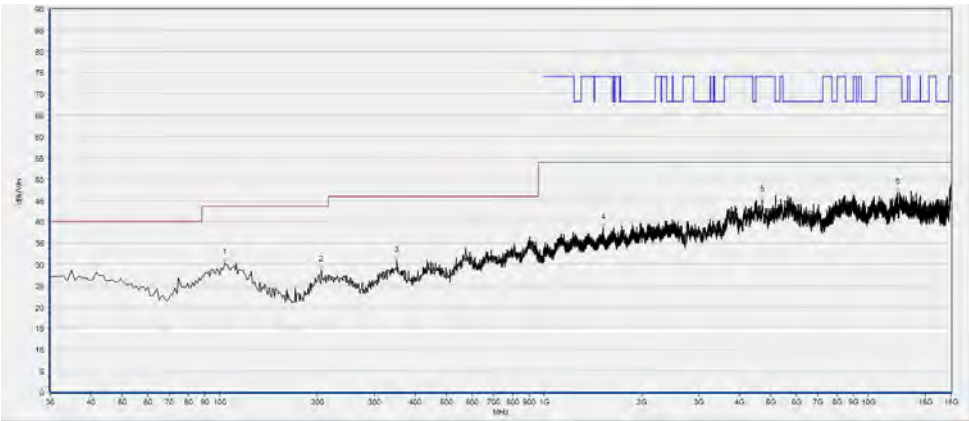
802.11ac (VHT80) Mode

Plot for Channel 42



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
107.678	30.28	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
252.352	27.49	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
552.382	32.44	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1623.675	38.02	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4500.740	45.78	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8551.750	46.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

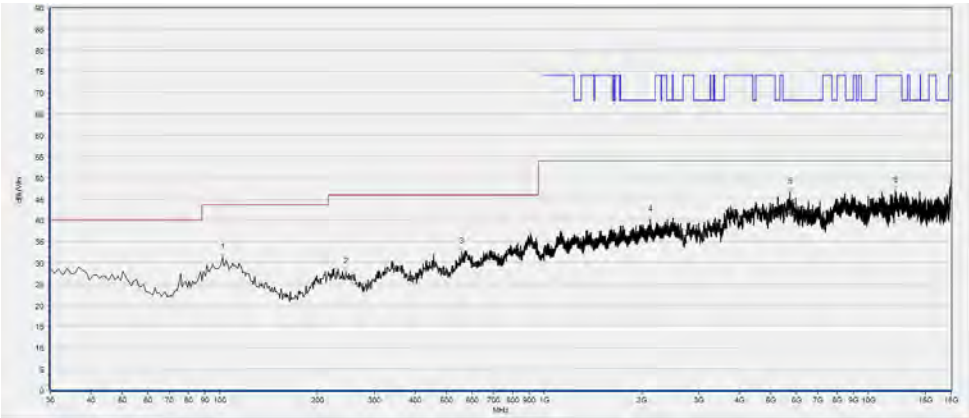
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	30.26	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	28.72	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
351.391	30.78	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1524.975	38.48	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4713.303	45.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12340.908	46.88	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

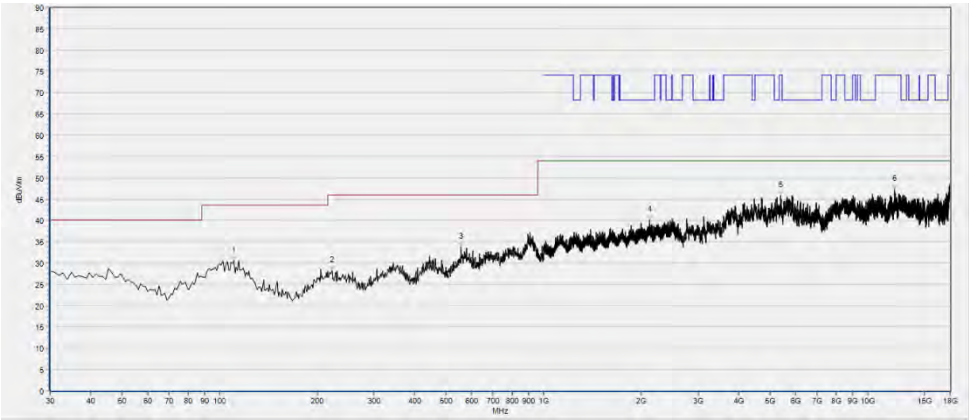
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 58



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
101.852	31.11	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
244.585	27.78	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
557.237	32.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2125.709	40.09	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5745.309	46.66	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12137.588	46.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

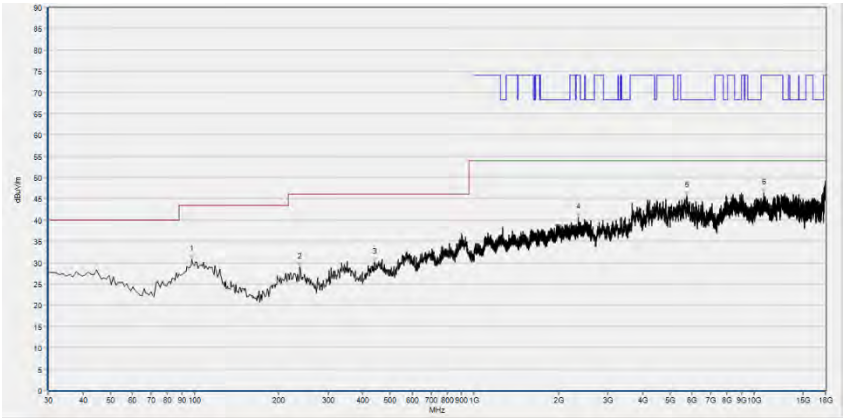
(Antenna Horizontal, 30MHz to 18GHz)



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
110.591	30.45	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
222.252	28.09	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
557.237	33.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2129.443	40.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5400.280	45.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12156.071	47.31	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

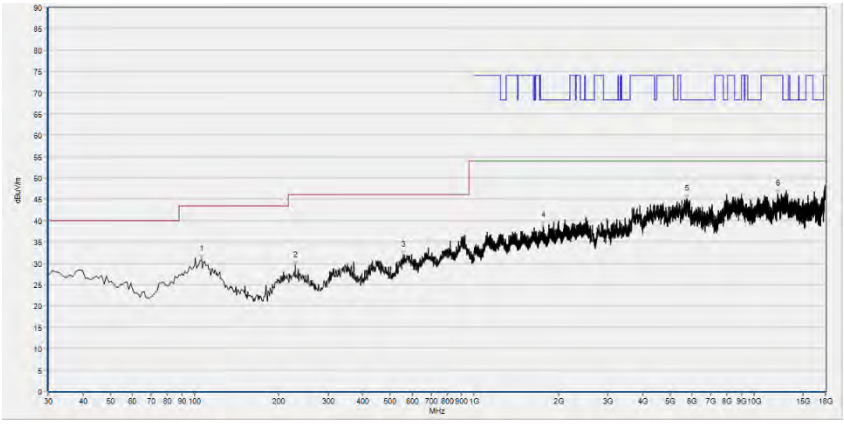
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 106



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
97.968	30.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
237.788	28.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
439.750	30.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2356.185	40.63	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5766.873	45.75	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10862.212	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

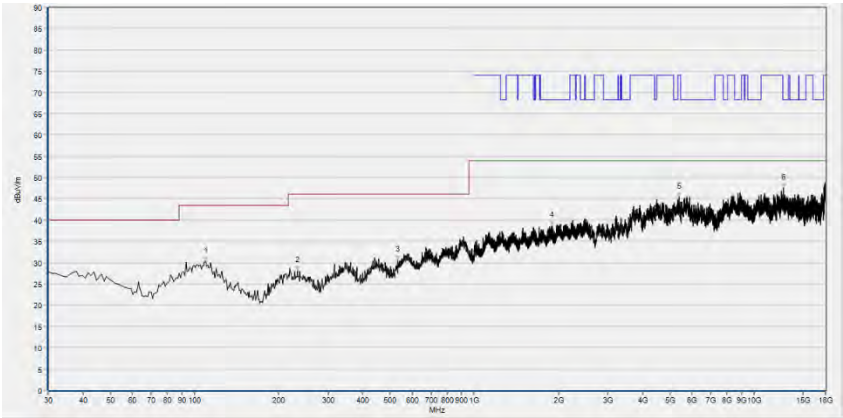
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	30.88	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
229.049	29.40	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
557.237	31.91	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1759.720	38.87	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.712	45.12	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12131.426	46.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

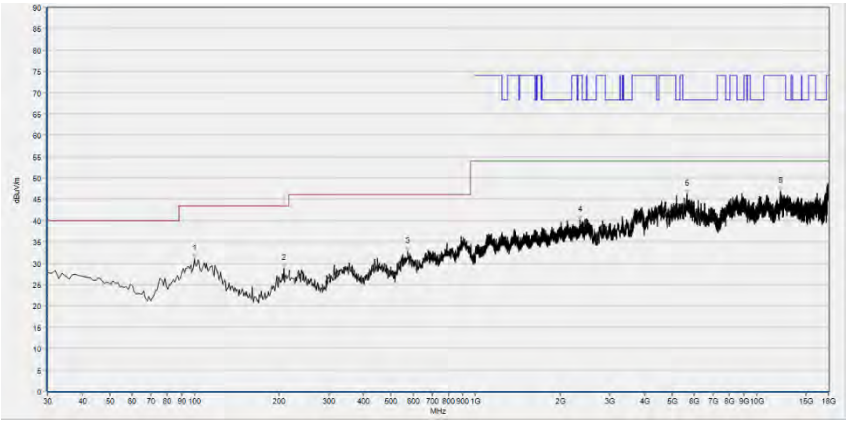
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 122



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
109.620	30.35	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	28.12	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
532.963	30.57	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1885.629	38.72	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5409.522	45.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12738.308	47.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

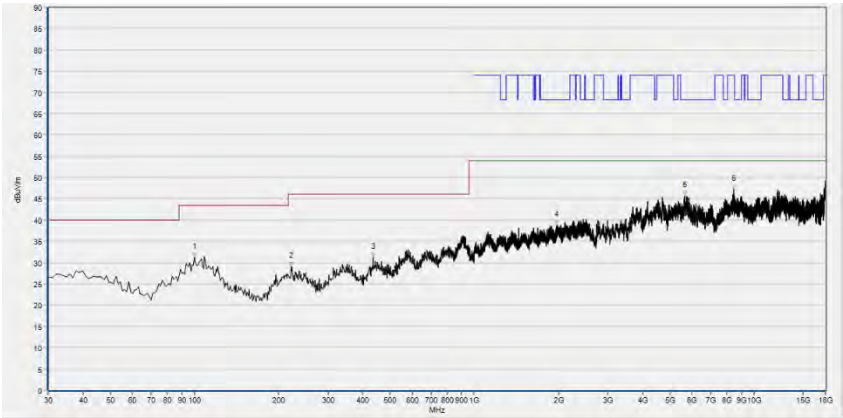
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	31.08	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
207.688	28.74	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
574.715	32.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2358.853	40.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5652.891	46.30	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12156.071	46.91	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

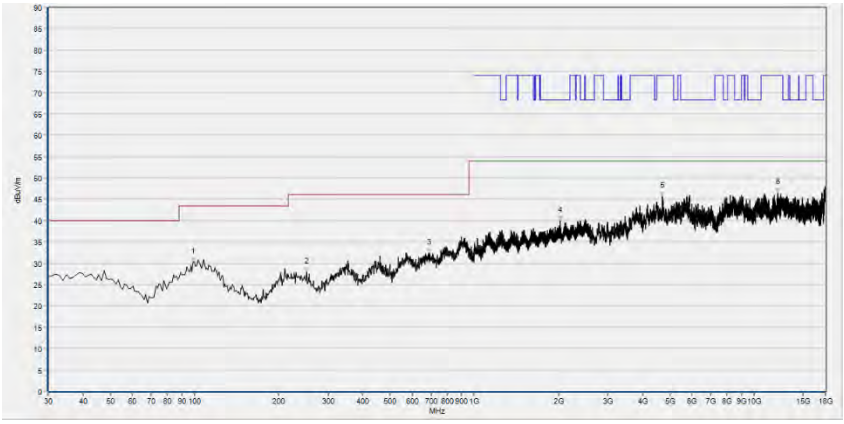
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 138



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
99.910	31.27	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
221.281	29.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
434.895	31.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1970.990	38.86	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5652.891	45.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
8477.816	47.25	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

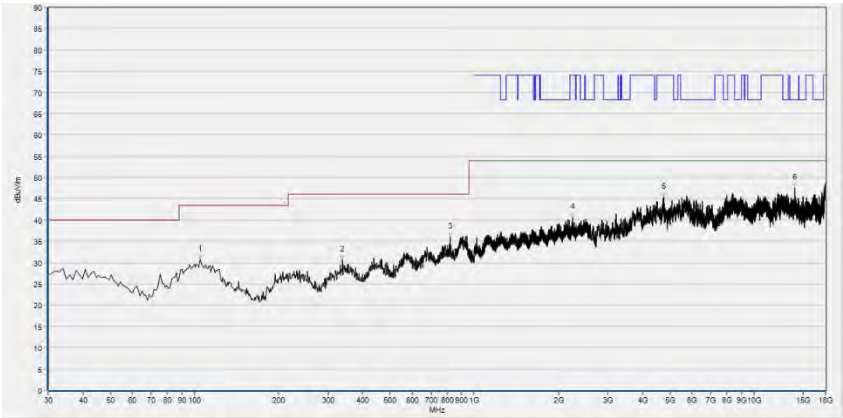
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	30.35	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
251.381	27.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
691.231	32.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2023.808	39.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4700.980	45.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12146.829	46.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

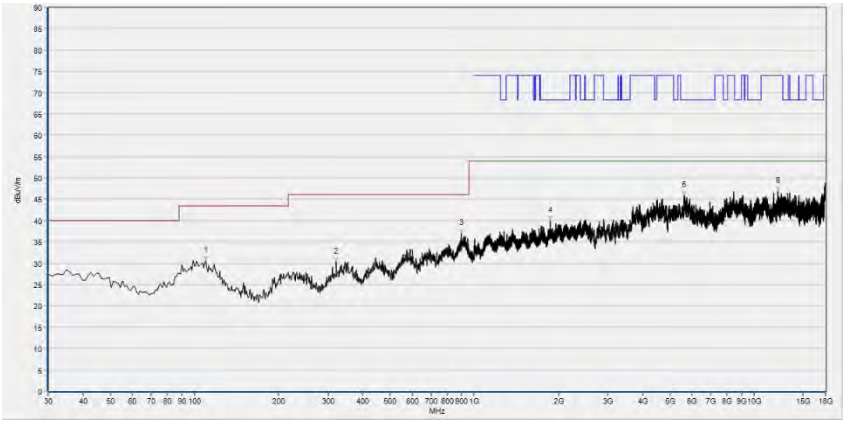
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 155



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
104.765	30.71	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
337.798	30.61	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
819.399	36.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2245.215	40.61	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4753.351	45.45	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
14004.441	47.48	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

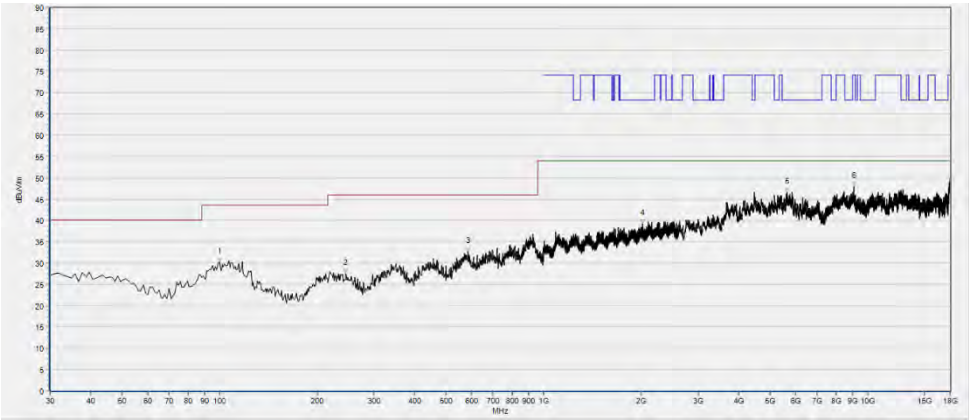


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
109.620	30.63	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
321.291	30.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
897.077	37.03	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1868.556	39.93	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5625.165	45.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12137.588	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

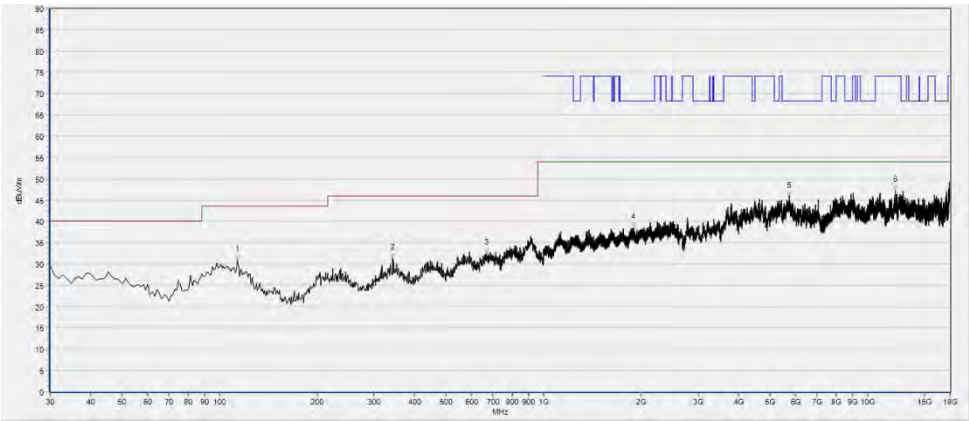
802.11ax (HEW20) Mode

Plot for Channel 36



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
99.910	30.10	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
245.556	27.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
585.395	32.64	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2022.207	39.14	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5637.487	46.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
9069.294	47.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

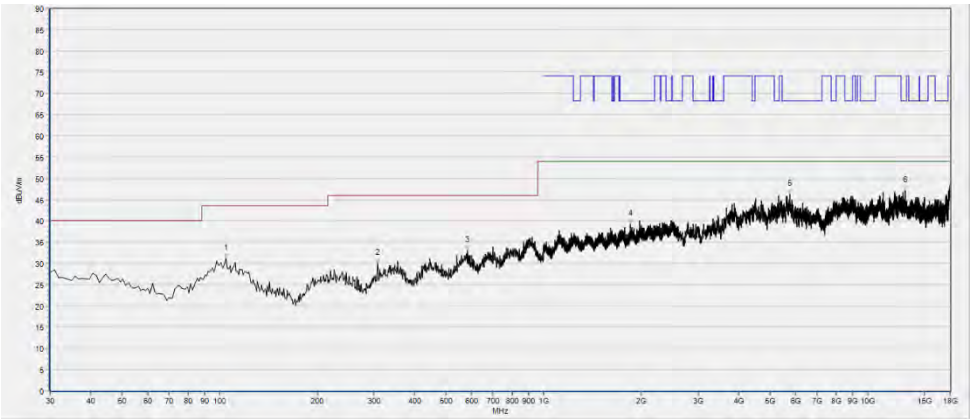
(Antenna Horizontal, 30MHz to 18GHz)



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
113.504	30.84	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
342.653	31.26	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
667.928	32.51	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1894.165	38.54	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5748.390	45.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12193.039	47.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

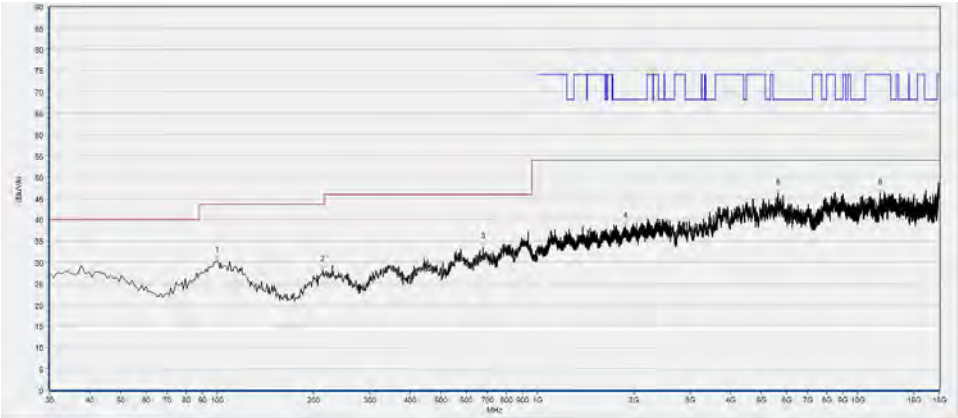
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



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
104.765	31.16	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
307.698	29.98	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
583.453	33.06	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1852.017	39.15	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5757.632	46.18	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
13083.337	47.16	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

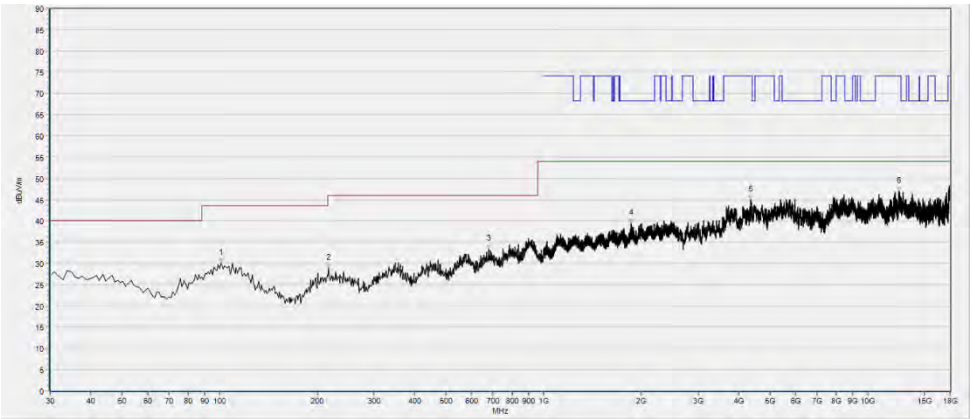
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	30.40	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
213.514	28.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
677.638	33.58	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1882.961	38.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5646.729	46.31	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11740.188	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

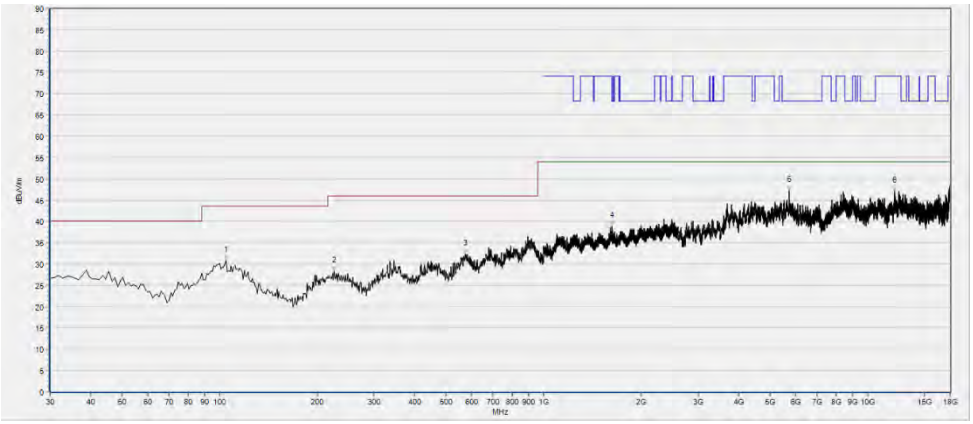
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



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
100.881	30.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
217.397	28.75	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
676.667	33.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1869.090	39.37	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4365.193	44.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12494.939	46.96	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

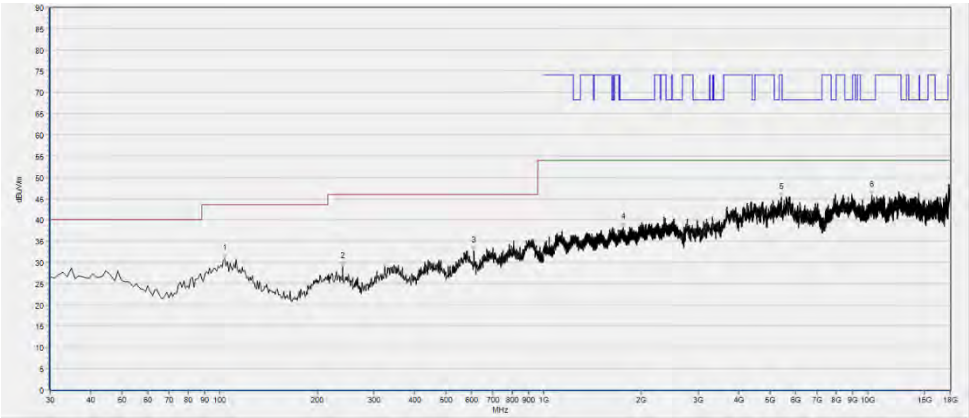
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	30.78	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.136	28.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.715	32.33	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1630.610	38.83	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5745.309	47.24	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12159.152	47.07	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

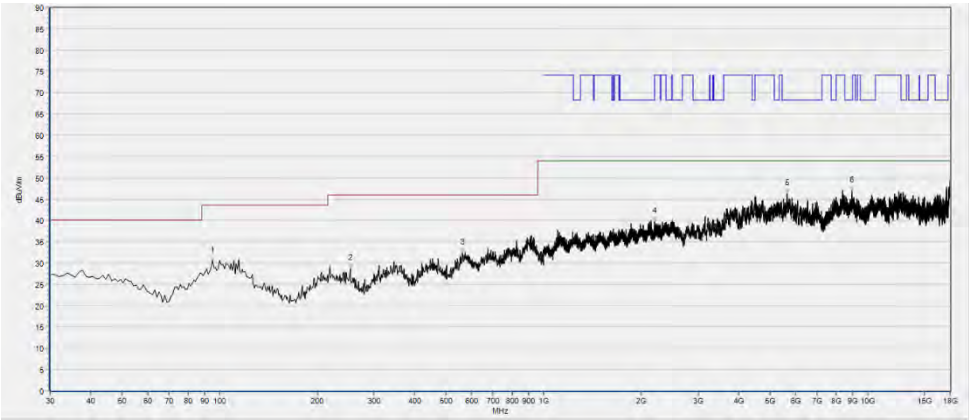
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



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
103.794	30.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
239.730	28.99	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
610.641	32.71	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1761.320	38.25	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5421.844	45.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10307.702	45.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

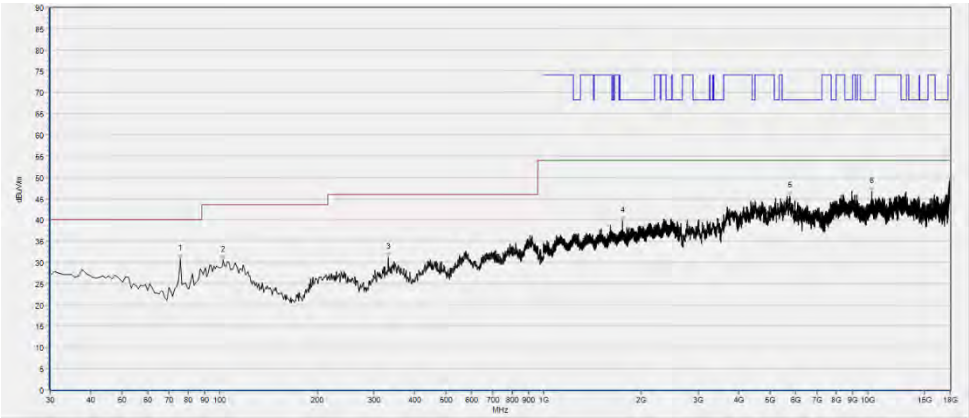
(Antenna Horizontal, 30MHz to 18GHz)



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
95.055	30.43	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
253.323	28.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
563.063	32.31	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2202.001	39.67	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5643.649	46.32	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8973.795	46.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

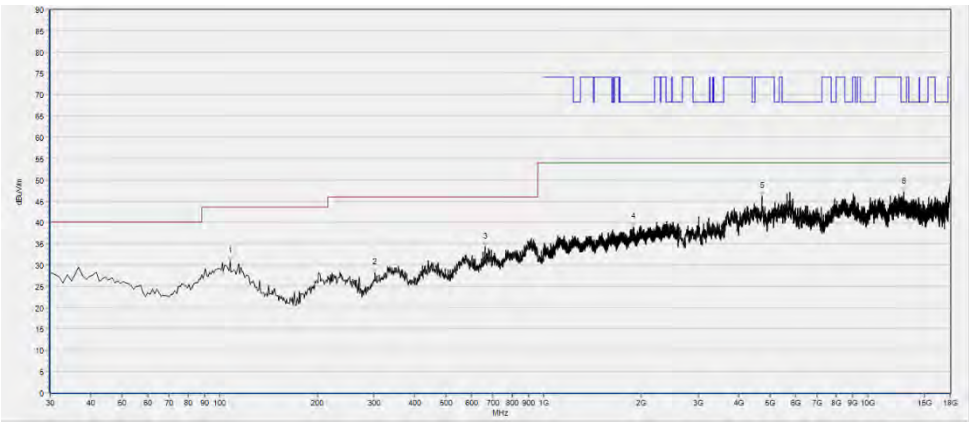
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



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
75.636	30.77	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
102.823	30.43	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
331.972	31.19	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1755.452	39.76	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5754.551	45.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10313.863	46.65	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

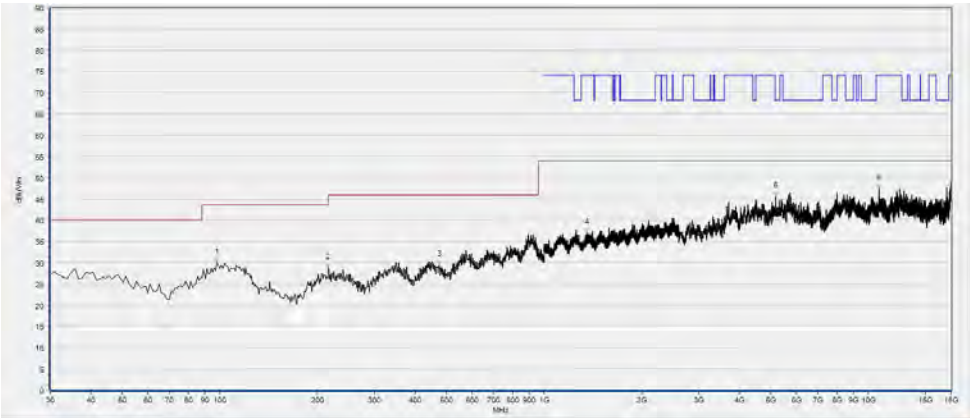
(Antenna Horizontal, 30MHz to 18GHz)



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
107.678	30.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
301.872	28.10	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
659.189	34.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1894.698	38.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4722.545	46.04	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12935.467	47.15	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

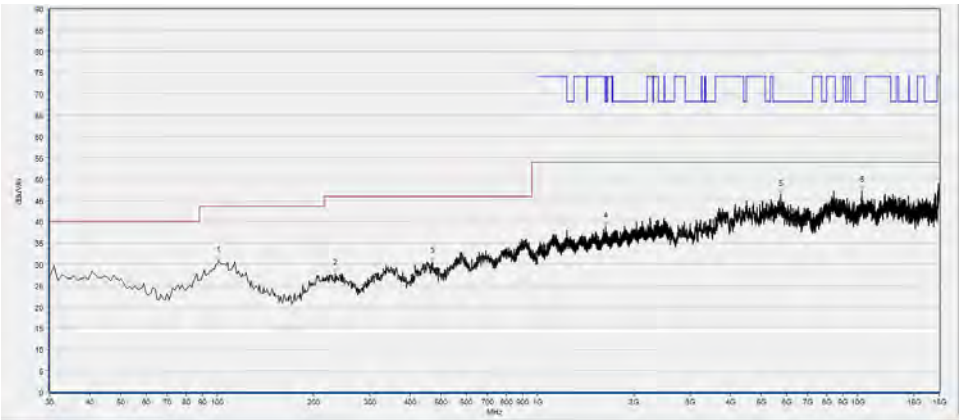
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



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
97.968	29.96	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
216.426	28.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
474.705	29.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1356.385	37.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5178.476	45.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10819.084	47.47	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

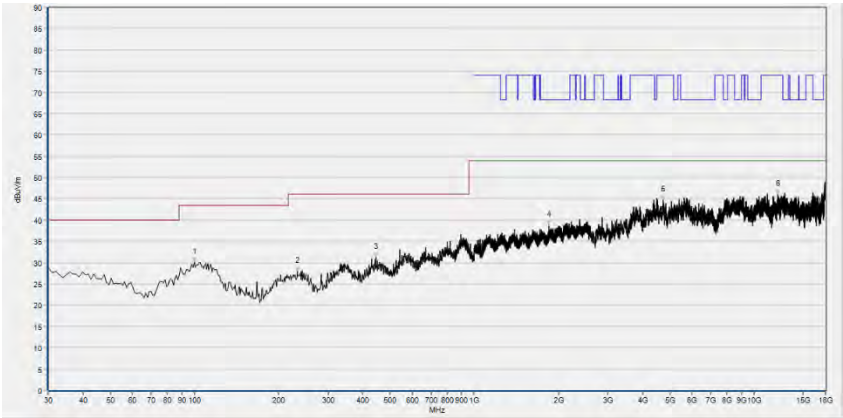
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	30.80	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.904	27.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
471.792	30.43	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1632.211	38.89	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5751.470	46.44	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10313.863	47.25	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

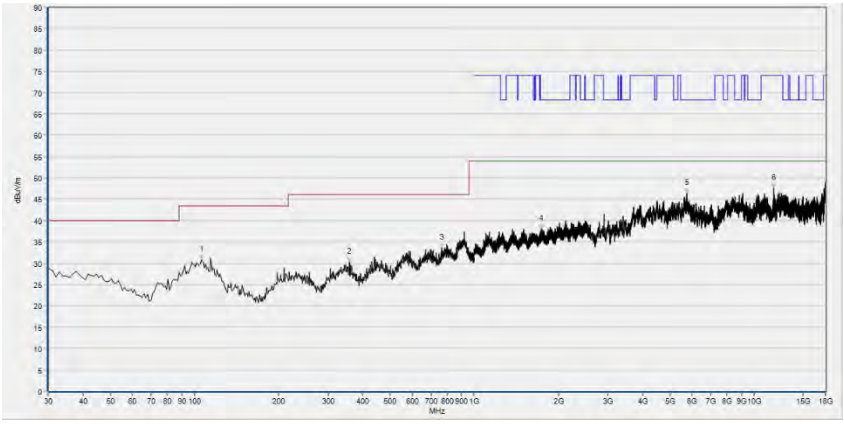
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100



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
99.910	30.05	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	28.02	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
444.605	31.27	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1850.417	38.83	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4725.625	44.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12159.152	45.99	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

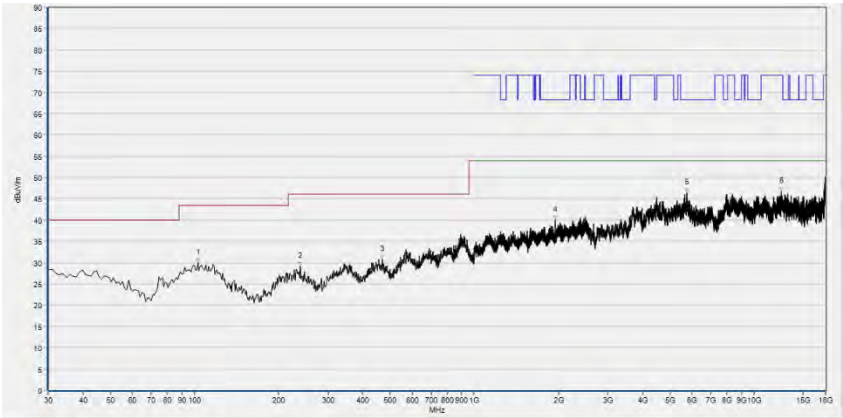
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	30.82	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
358.188	30.32	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
764.054	33.50	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1735.712	37.94	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5751.470	46.41	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11746.349	47.56	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

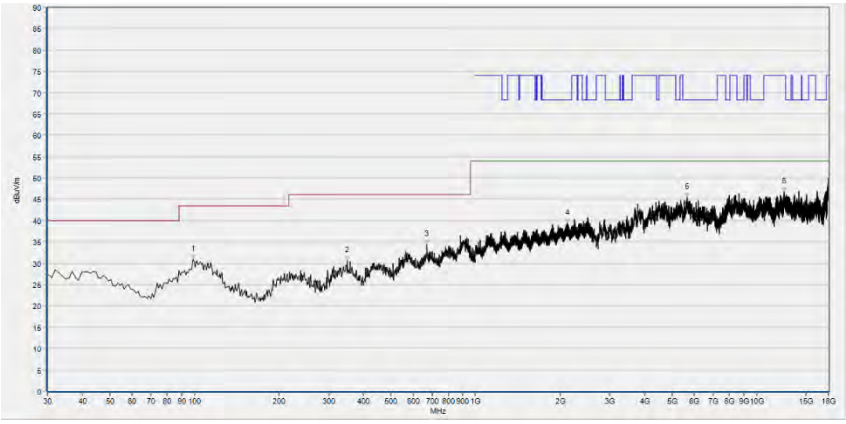
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



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
102.823	29.98	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	29.17	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
469.850	30.81	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1942.714	39.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5754.551	46.43	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12534.987	46.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

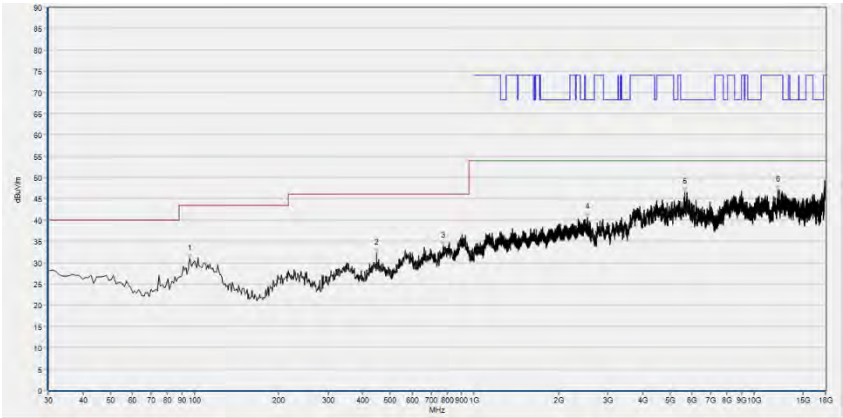
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	30.87	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
349.449	30.59	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
671.812	34.38	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2117.172	39.27	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5668.294	45.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12516.503	46.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

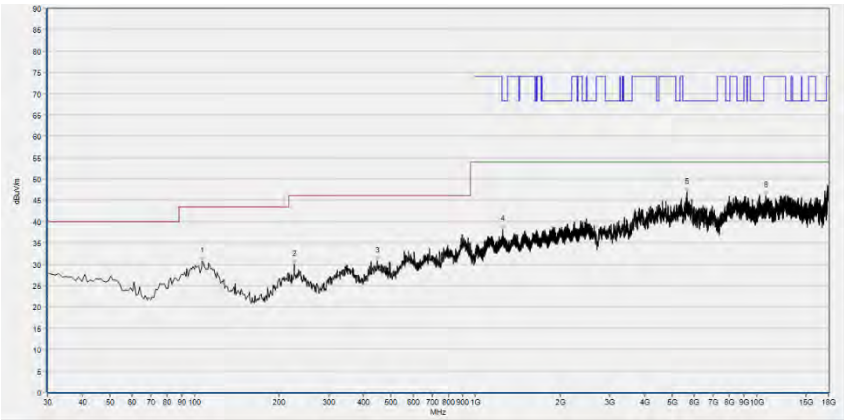
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



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
96.026	31.01	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
447.518	32.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
775.706	33.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2530.110	40.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5646.729	46.59	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12171.474	47.06	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

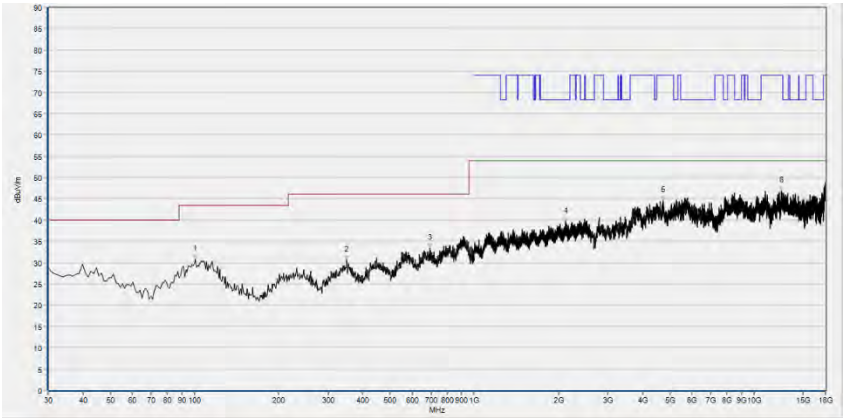
(Antenna Horizontal, 30MHz to 18GHz)



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
106.707	30.77	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
226.136	30.02	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
446.547	30.81	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1249.683	38.20	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5662.132	46.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10794.439	46.14	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

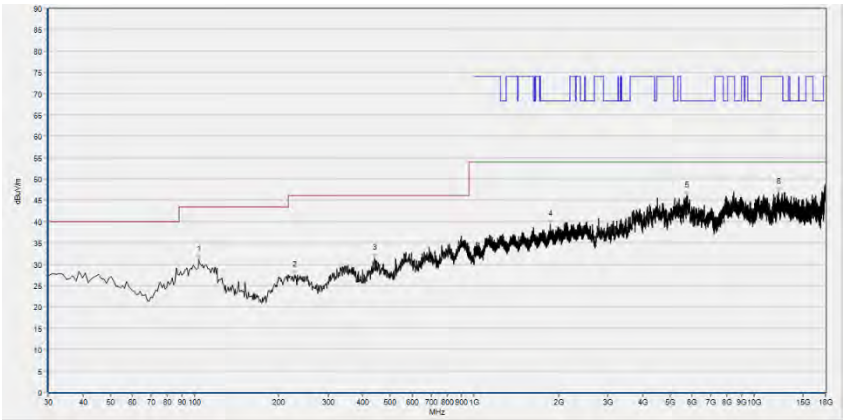
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



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
100.881	30.69	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
349.449	30.59	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
692.202	33.33	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2119.306	39.68	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4728.706	44.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12498.020	46.93	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

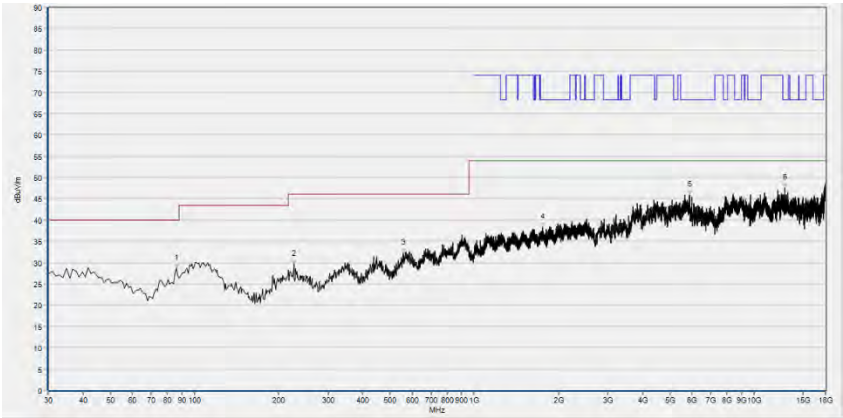
(Antenna Horizontal, 30MHz to 18GHz)



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
103.794	31.05	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
228.078	27.48	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
440.721	31.44	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1865.355	39.34	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5760.712	46.04	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12217.684	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

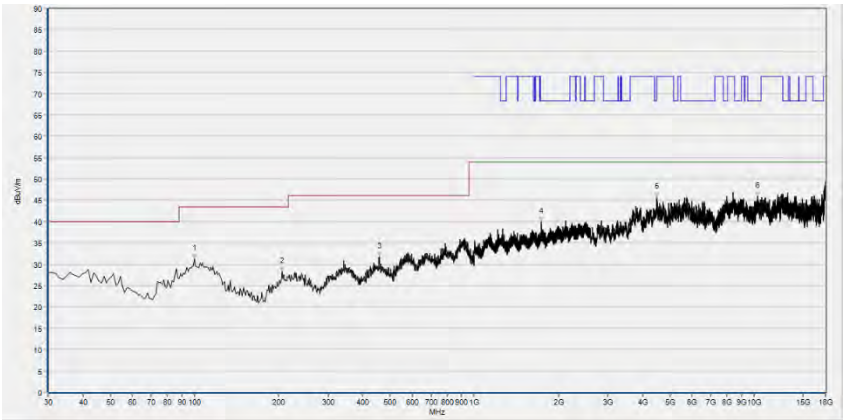
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



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
86.316	28.69	N/A	N/A	N/A	40.00	N/A	Horizontal	PASS
226.136	29.55	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
556.266	32.24	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1754.385	38.38	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5877.776	45.98	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12873.855	47.54	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

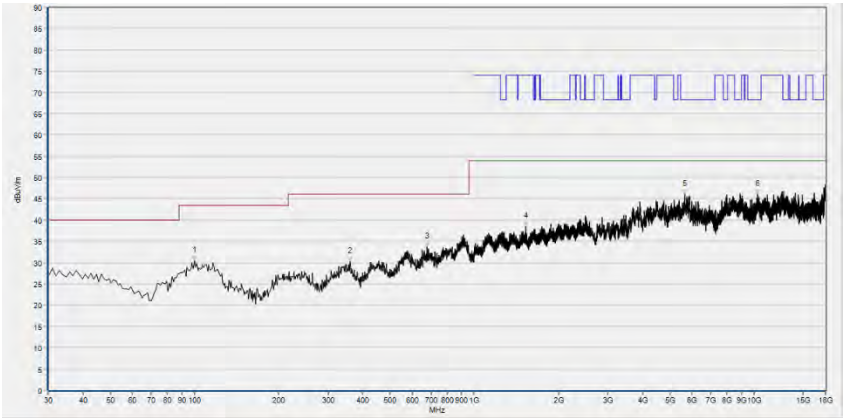
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	31.25	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
205.746	28.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
458.198	31.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1738.379	39.96	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4494.579	45.79	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10320.024	45.91	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

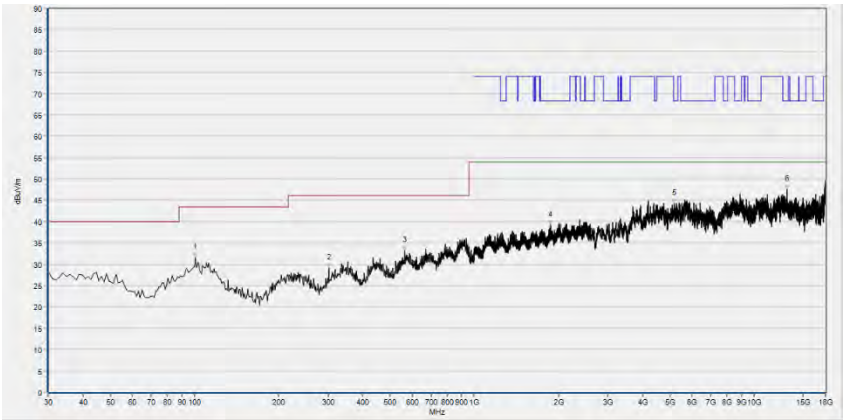
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



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
99.910	30.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
360.130	30.30	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
677.638	33.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1523.908	38.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5649.810	45.99	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10313.863	46.06	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

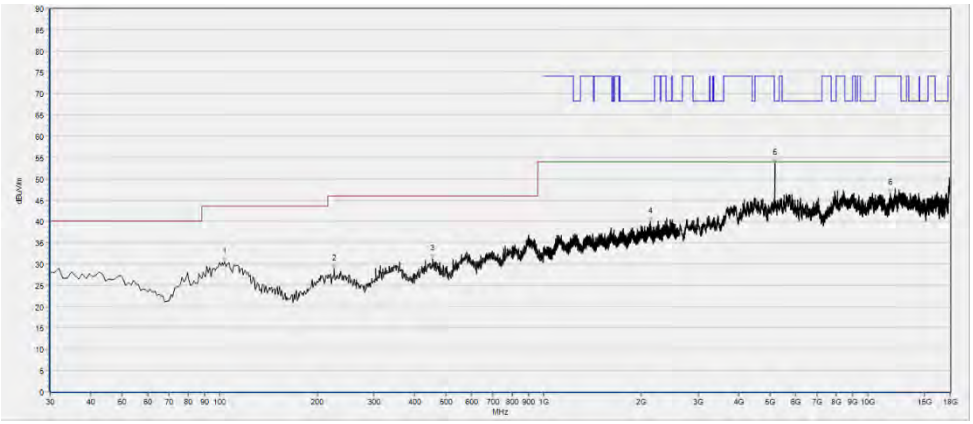


Fre. (MHz)	PK (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
100.881	31.51	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
301.872	29.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
564.034	33.20	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1874.425	39.19	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5172.314	44.23	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
13086.417	47.59	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

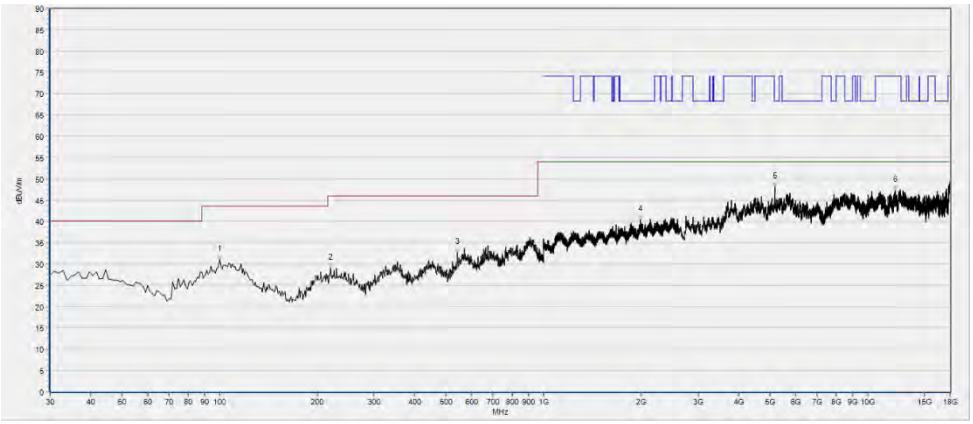
802.11ax (HEW20) RU26 Mode

Plot for Channel 36



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
103.794	30.45	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
226.136	28.74	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
455.285	31.20	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2133.711	39.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5172.314	53.62	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11752.511	46.54	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

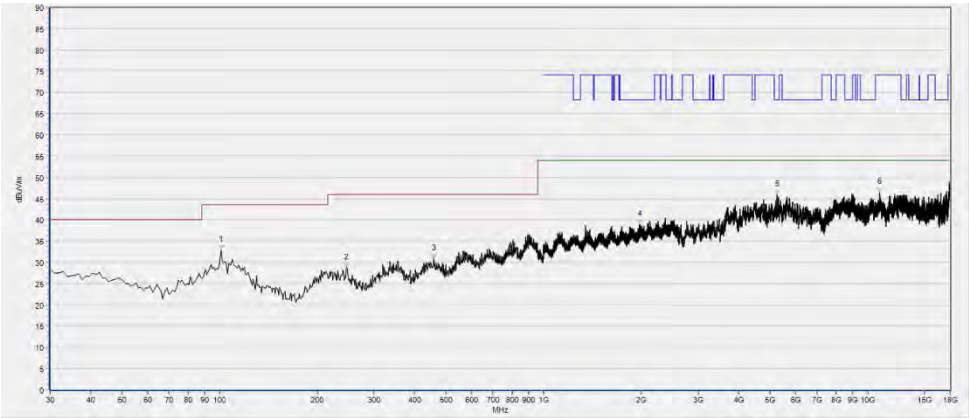
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	30.96	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
220.310	29.00	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
542.673	32.76	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1988.063	40.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5172.314	48.09	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12205.361	47.20	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

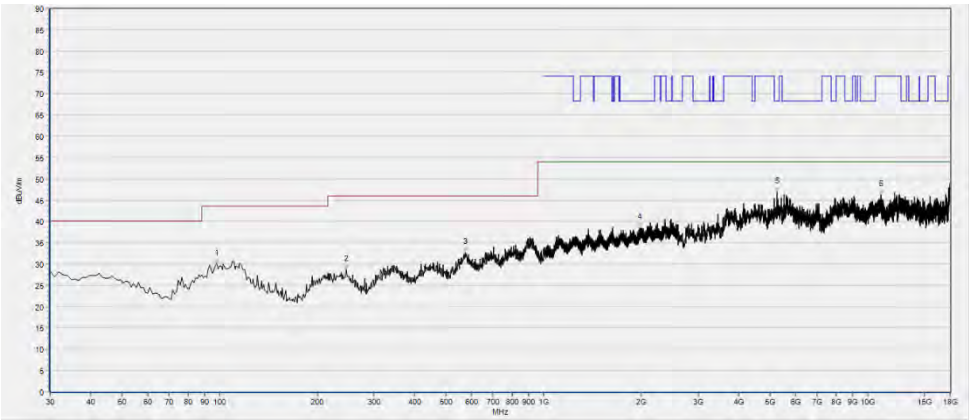
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 44



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
100.881	32.92	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
246.527	28.66	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
458.198	30.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1983.795	38.85	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5249.330	45.92	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
10923.825	46.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

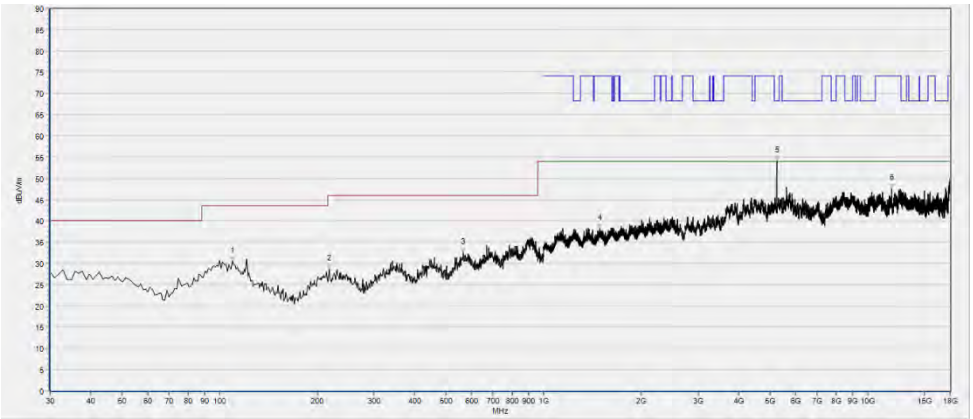
(Antenna Horizontal, 30MHz to 18GHz)



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
97.968	30.04	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
246.527	28.63	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.715	32.72	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1986.462	38.60	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5219.330	46.88	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
11013.163	46.24	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

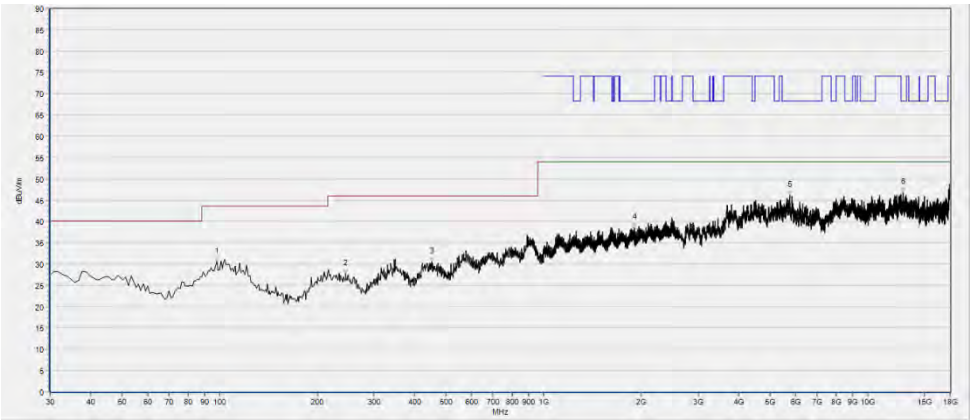
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 48



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
109.620	30.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
218.368	28.67	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
565.976	32.45	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1494.031	38.24	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5249.330	54.20	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11881.896	47.66	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

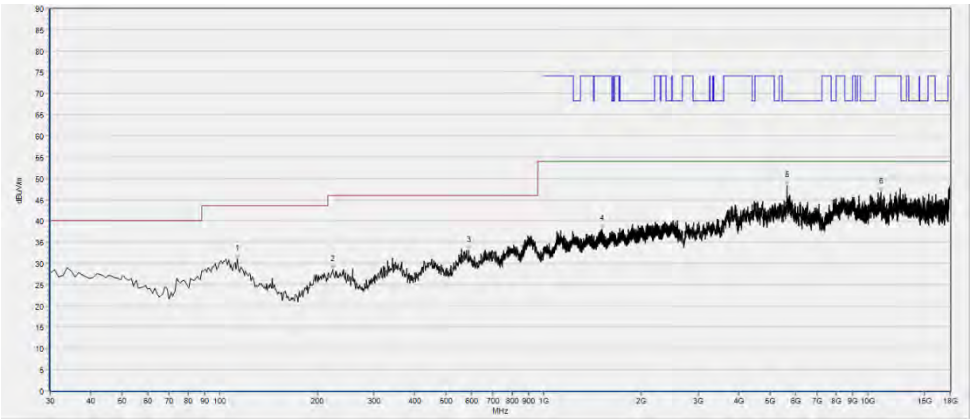
(Antenna Horizontal, 30MHz to 18GHz)



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
97.968	30.56	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
245.556	27.69	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
452.372	30.56	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1911.771	38.49	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5751.470	46.03	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12920.064	46.75	N/A	N/A	68.23	N/A	N/A	Vertical	PASS

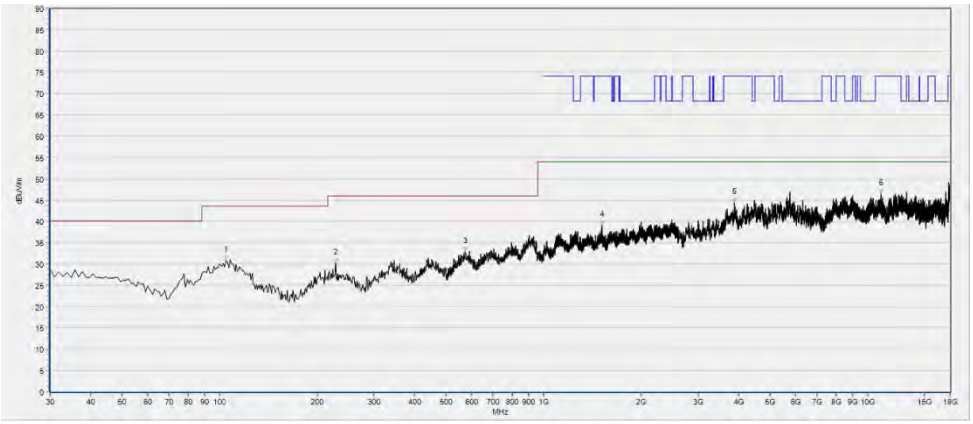
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 52



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
113.504	31.07	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
223.223	28.47	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
587.337	32.97	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1513.771	38.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5652.891	48.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11003.921	46.70	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

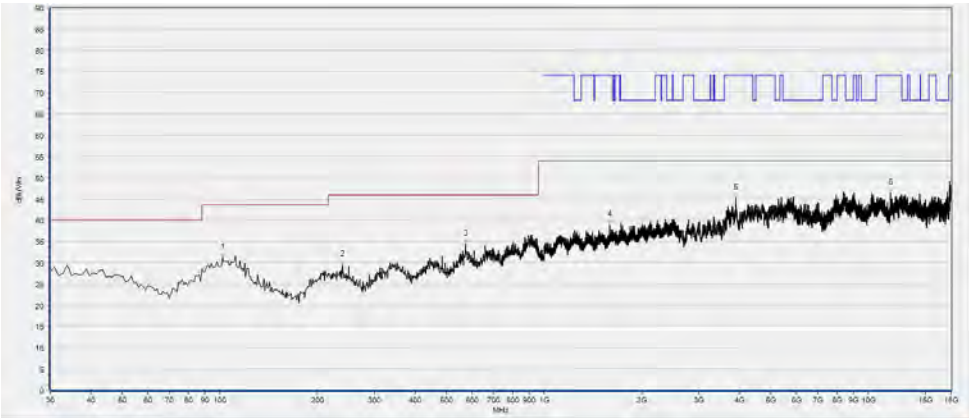
(Antenna Horizontal, 30MHz to 18GHz)



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
104.765	30.91	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
228.078	30.24	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
574.715	32.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1515.905	39.06	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3893.859	44.49	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10997.760	46.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

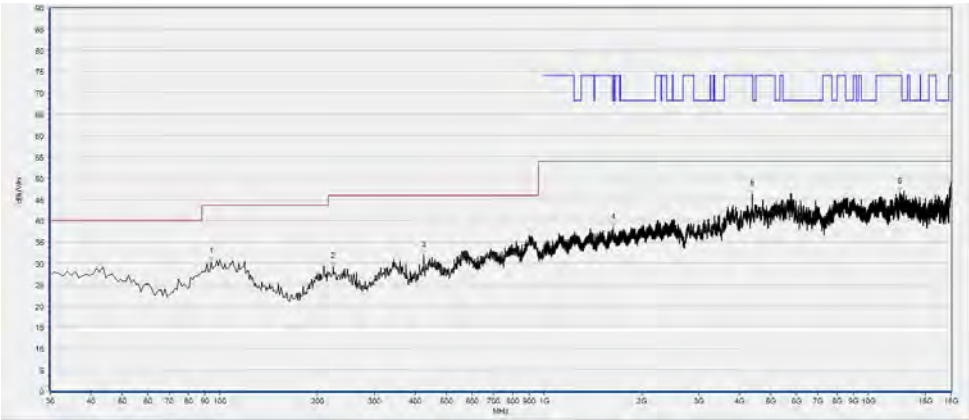
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 60



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
101.852	31.19	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
238.759	29.54	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
572.773	34.28	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1594.331	38.80	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
3903.101	45.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
11727.866	46.41	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

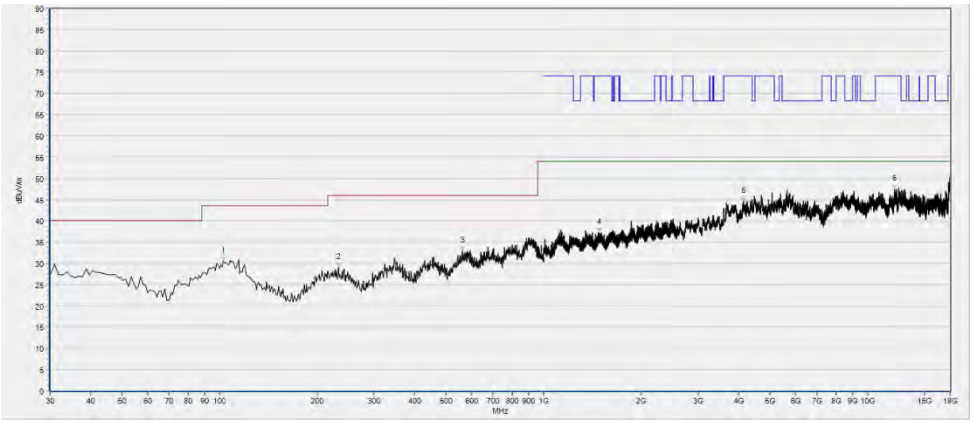
(Antenna Horizontal, 30MHz to 18GHz)



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
94.084	30.30	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
224.194	29.22	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
426.156	31.83	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1638.079	38.43	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4395.999	46.25	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12528.826	46.74	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

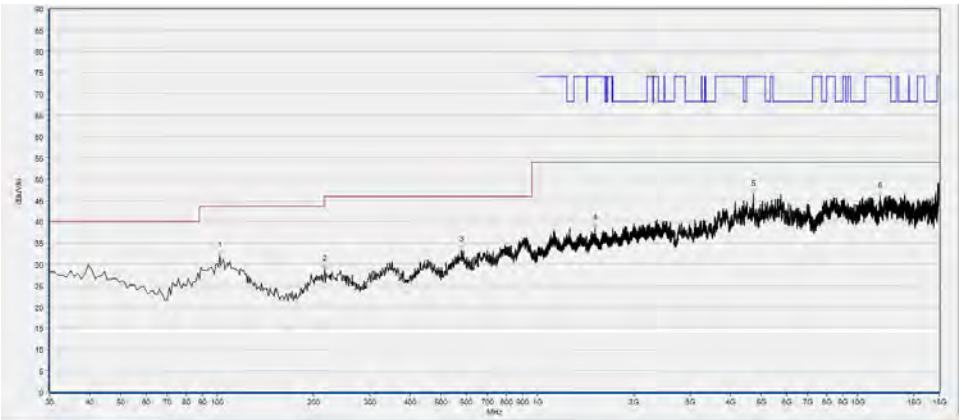
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 64



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
102.823	30.49	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	28.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
562.092	32.92	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1485.495	37.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
4149.550	44.51	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12146.829	47.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

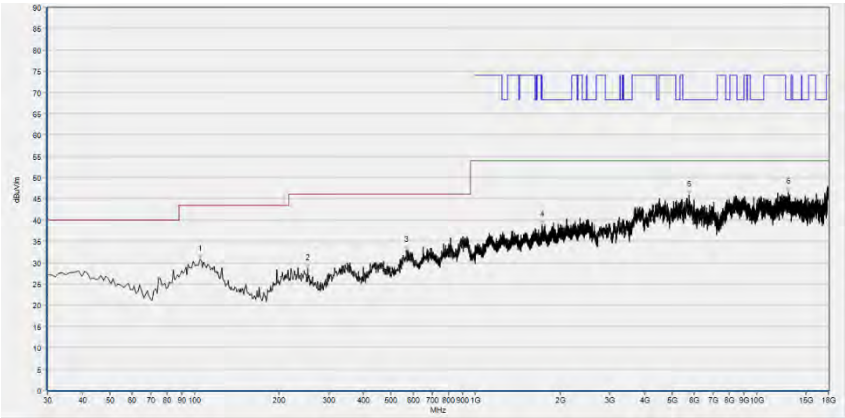
(Antenna Horizontal, 30MHz to 18GHz)



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
101.852	31.95	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
217.397	28.85	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
579.570	33.27	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1513.238	38.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4725.625	46.50	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
11749.430	45.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

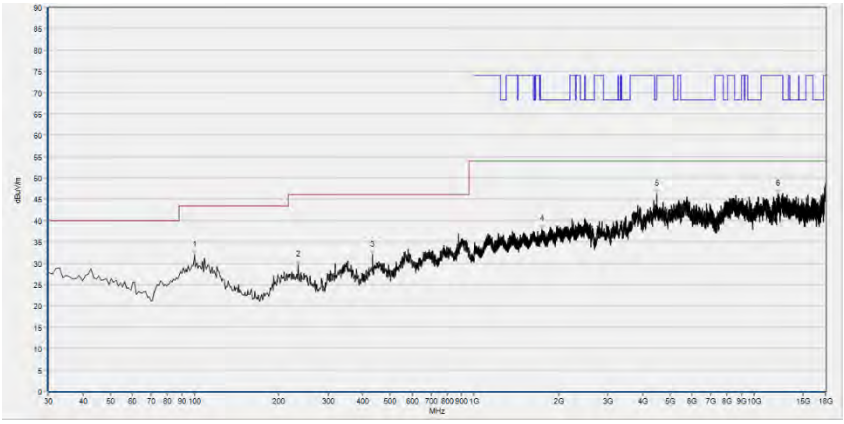
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 100



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
104.765	30.84	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
253.323	28.65	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
567.918	32.96	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1723.441	38.81	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	45.88	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
12932.386	46.61	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

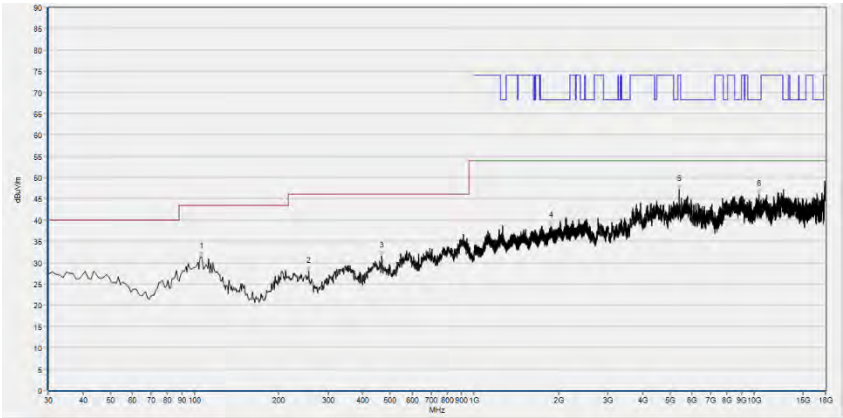
(Antenna Horizontal, 30MHz to 18GHz)



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
99.910	31.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
234.875	29.55	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
432.953	31.84	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1741.047	38.08	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
4485.337	46.16	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12177.636	46.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

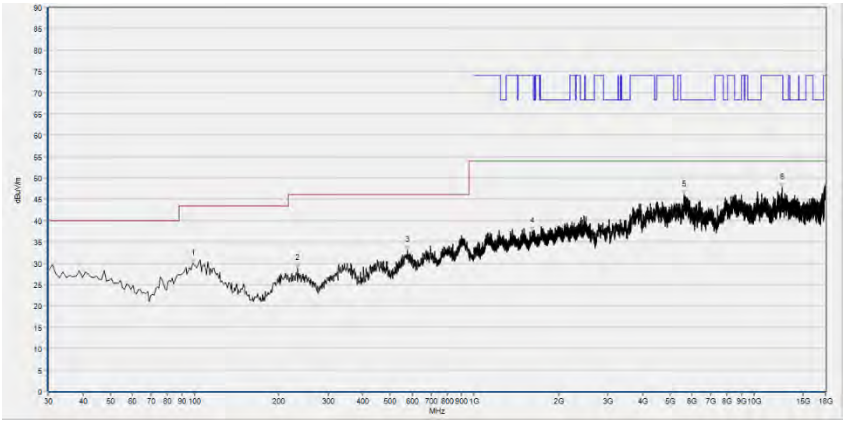
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 120



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
105.736	31.37	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
256.236	27.94	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
466.937	31.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1874.958	38.64	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5403.361	47.14	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10381.636	46.12	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

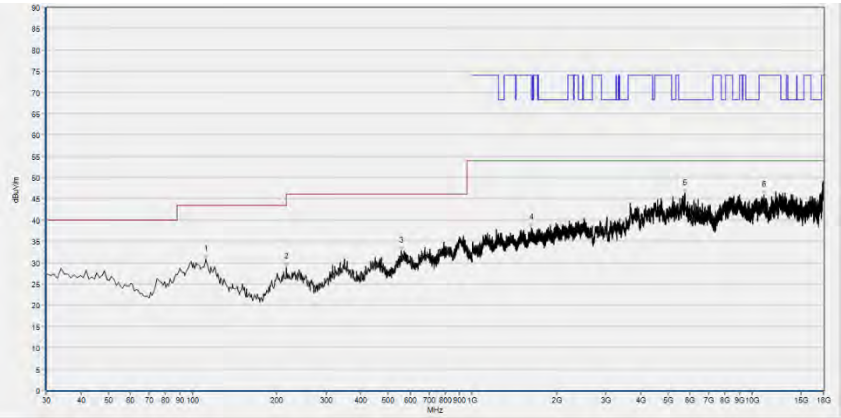
(Antenna Horizontal, 30MHz to 18GHz)



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
98.939	29.93	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
233.904	28.80	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
575.686	33.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1606.069	37.45	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5628.246	46.02	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12575.035	47.64	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

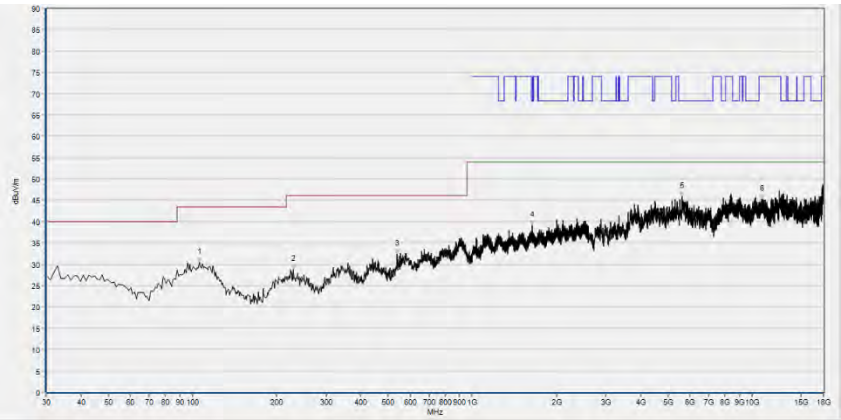
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 144



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
111.562	30.70	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
216.426	28.90	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
557.237	32.79	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1631.677	38.22	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5748.390	46.27	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
11007.001	45.82	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

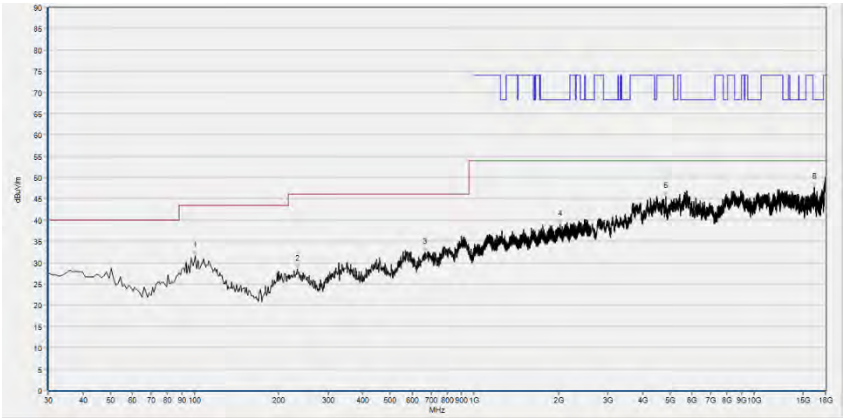
(Antenna Horizontal, 30MHz to 18GHz)



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
105.736	30.42	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
230.020	28.85	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
538.789	32.39	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1638.079	39.21	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5631.326	45.90	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
10825.245	45.19	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

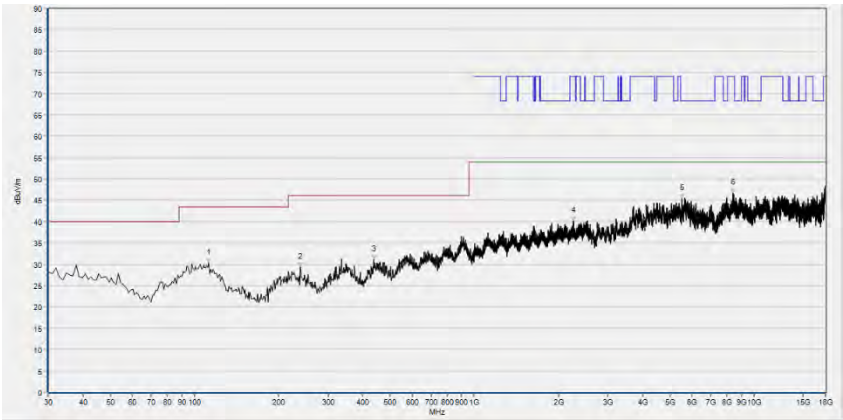
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 149



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
100.881	31.62	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
232.933	28.40	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
665.986	32.43	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2024.341	39.00	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4839.608	45.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
16416.563	47.70	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

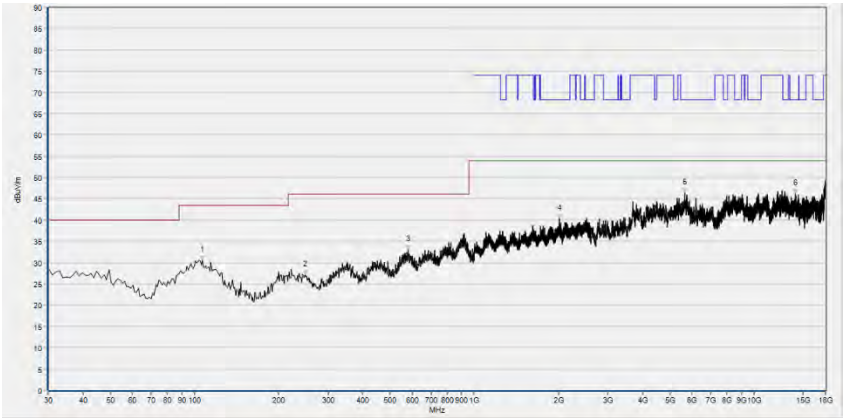
(Antenna Horizontal, 30MHz to 18GHz)



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
112.533	30.33	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
238.759	29.30	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
436.837	31.15	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2263.354	40.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5514.263	45.37	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
8400.800	46.68	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

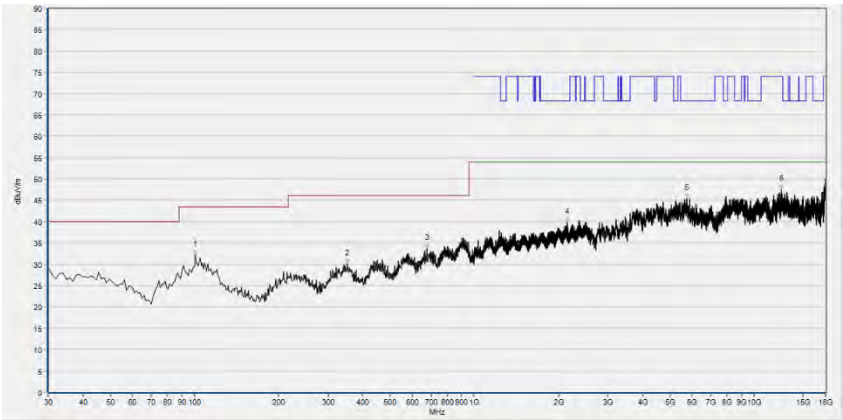
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 157



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
106.707	30.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
248.468	27.21	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
580.541	33.13	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2019.006	40.31	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
5649.810	46.46	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
14019.844	46.19	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

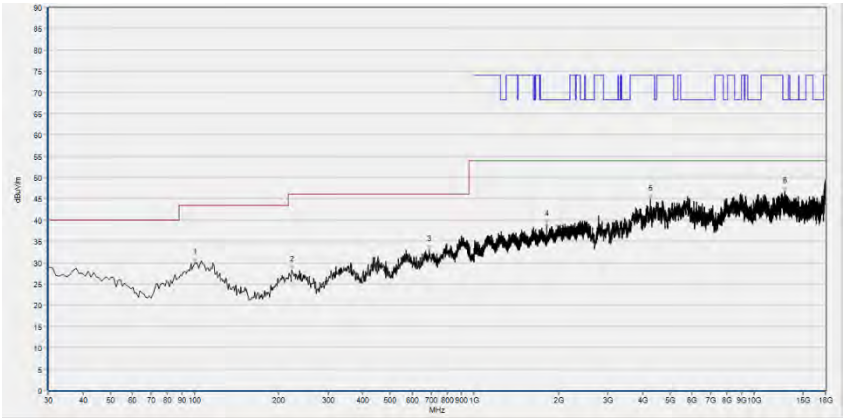
(Antenna Horizontal, 30MHz to 18GHz)



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
100.881	32.23	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
350.420	30.08	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
677.638	33.71	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2144.381	39.76	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
5763.793	45.33	N/A	N/A	68.23	N/A	N/A	Vertical	PASS
12547.309	47.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

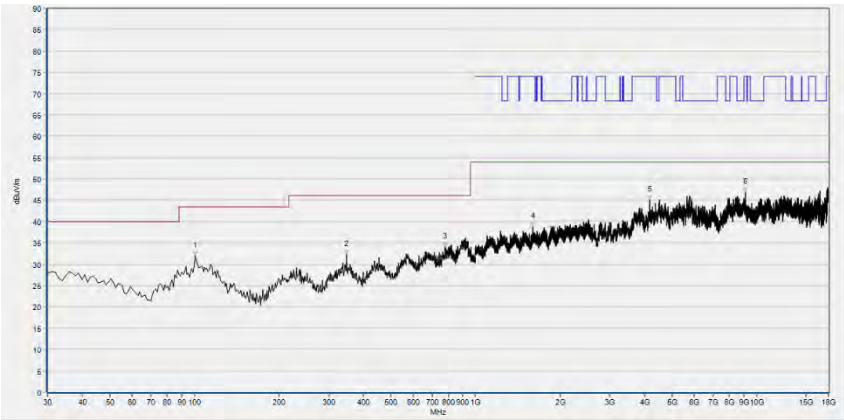
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 165



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
100.881	29.91	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
223.223	28.23	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
688.318	33.13	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1816.806	38.92	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS
4266.613	44.89	N/A	N/A	74.00	N/A	74.00	Horizontal	PASS
12870.774	46.71	N/A	N/A	68.23	N/A	N/A	Horizontal	PASS

(Antenna Horizontal, 30MHz 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
100.881	31.85	N/A	N/A	N/A	43.50	N/A	Vertical	PASS
347.508	32.25	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
778.619	34.07	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1601.267	38.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4155.711	45.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9112.422	46.85	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
Peak Output Power	±2.22dB
Power Spectral Density	±2.22dB
Bandwidth	±5%
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Annex B Testing Laboratory Information

1. Identification of the Responsible 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

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Attenuator 1	N/A	10dB	Resnet	N/A	N/A
EXA Signal Analzyer	MY53470836	N9010A	Agilent	2022.03.01	2023.02.28
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2021.10.21	2022.10.20
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
Temperature Chamber	12108015	DTL-003S101	YOMA	2021.10.20	2022.10.19

4.2 Conducted Emission Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY56400093	N9038A	KEYSIGHT	2022.03.03	2023.03.02
LISN	8127449	NSLK 8127	Schwarzbeck	2022.03.03	2023.03.02
Pulse Limiter (10dB)	VTSD 9561 F-B #206	VTSD 9561-F	Schwarzbeck	2021.07.21	2022.07.20
Coaxial Cable(BNC) (30MHz-26GHz)	CB01	EMC01	Morlab	N/A	N/A
NOTEBOOK	DF2DR A01 DPC	VOSTRO 5370	DELL	NA	NA
ADAPTER	OKXTTW	LA45NM140	DELL	NA	NA

4.3 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
Morlab EMCR V1.2	Morlab	V1.0
TS+ -[JS32-CE]	Tonscend	V2.5.0.0

4.4Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Receiver	MY54130016	N9038A	Agilent	2021.07.16	2022.07.15
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2022.05.25	2025.05.24
Test Antenna - Horn	BBHA9170 #774	BBHA 9170	Schwarzbeck	2022.02.11	2025.02.10
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.07.26	2022.07.25
Test Antenna - Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2022.07.25
Coaxial Cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
Coaxial Cable (N male) (30MHz-40GHz)	CB05	EMC05	Morlab	N/A	N/A
1-18GHz pre-Amplifier	61171/61172	S020180L3203	Tonscend	2021.07.16	2022.07.15
18-26.5GHz pre-Amplifier	46732	S10M100L3802	Tonscend	2021.07.16	2022.07.15
26-40GHz pre-Amplifier	56774	S40M400L4002	Tonscend	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5150-5350	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5470-5725	Wainwright	2021.07.16	2022.07.15
Notch Filter	N/A	WRCG-5725-5850	Wainwright	2021.07.16	2022.07.15

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Anechoic Chamber	N/A	9m*6m*6m	CRT	2020.01.06	2023.01.05

END OF REPORT