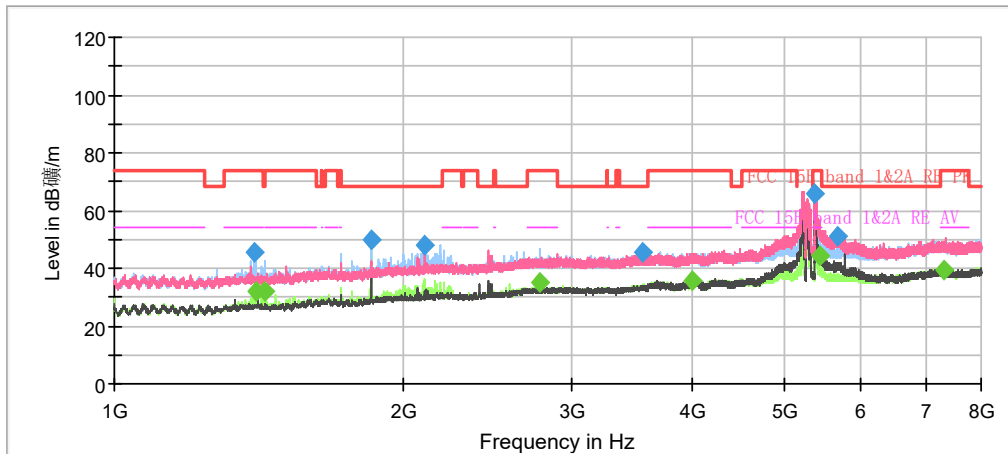


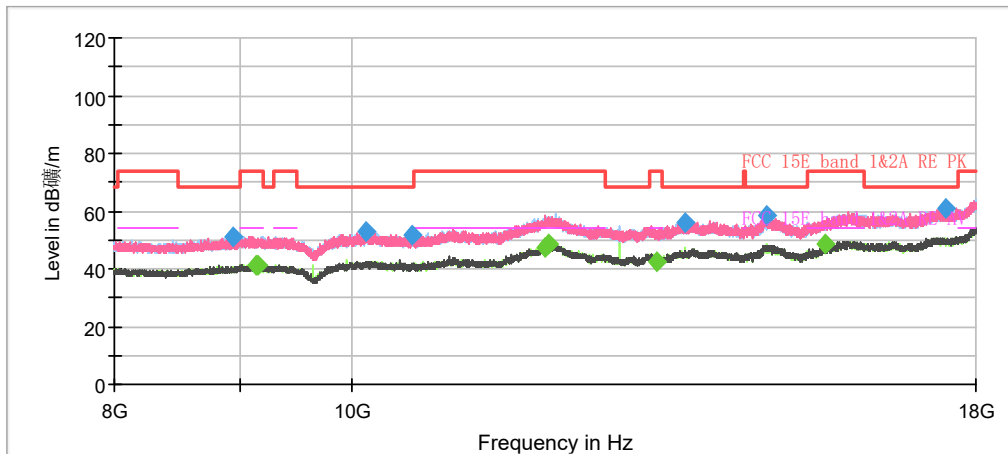
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1388.033333	44.83	---	74.00	29.17	500.0	200.0	H	316.0	-19.0
1390.833333	---	31.58	54.00	22.42	500.0	100.0	H	0.0	-18.9
1575.166667	---	30.04	54.00	23.96	500.0	200.0	H	339.0	-17.9
1933.800000	49.07	---	68.20	19.13	500.0	200.0	H	305.0	-15.9
2115.566667	49.72	---	68.20	18.48	500.0	200.0	H	0.0	-15.3
2774.966667	---	34.81	54.00	19.19	500.0	100.0	H	299.0	-13.5
3012.733333	44.33	---	68.20	23.87	500.0	100.0	H	253.0	-12.6
3989.466667	---	35.28	54.00	18.72	500.0	200.0	H	272.0	-9.6
5129.066667	60.30	---	74.00	13.70	500.0	200.0	V	232.0	-6.1
5129.766667	---	50.42	54.00	3.58	500.0	200.0	V	209.0	-6.1
5760.000000	50.40	---	68.20	17.80	500.0	200.0	V	173.0	-5.1
7321.000000	---	39.18	54.00	14.82	500.0	100.0	H	30.0	-1.7
12095.333333	---	48.54	54.00	5.46	500.0	100.0	H	344.0	6.3
15674.666667	---	48.35	54.00	5.65	500.0	200.0	V	255.0	6.1

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE80) CH58



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz

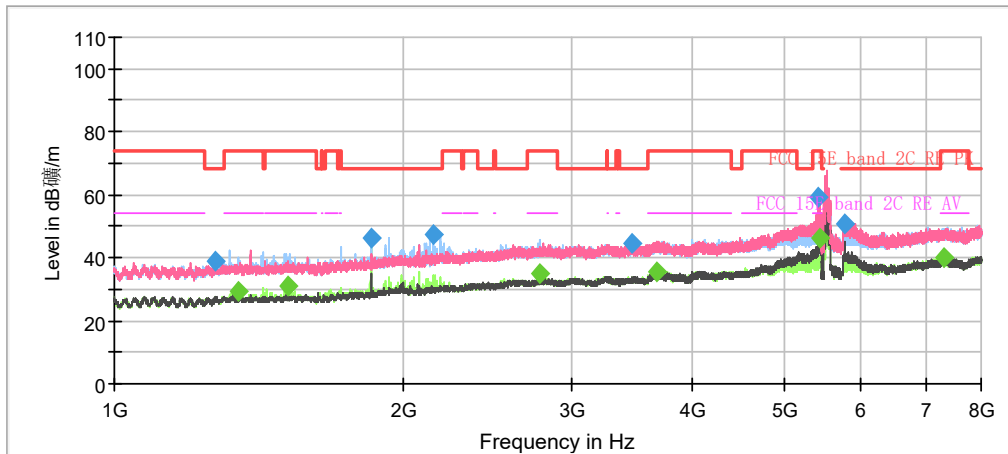


Radiates Emission from 8GHz to 18GHz

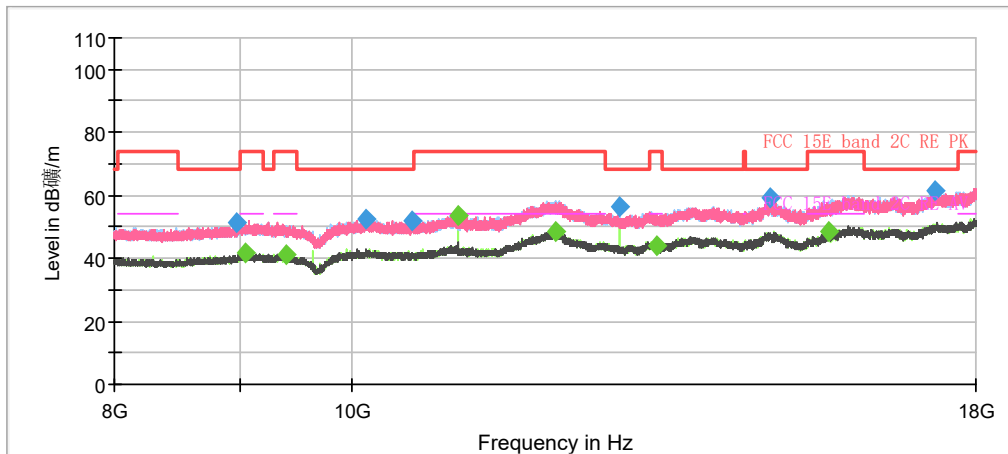
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1397.600000	45.45	---	74.00	28.55	500.0	100.0	H	1.0	-18.9
1406.466667	---	31.81	54.00	22.19	500.0	100.0	H	312.0	-18.8
1436.333333	---	32.25	54.00	21.75	500.0	100.0	H	336.0	-18.7
1849.800000	49.66	---	68.20	18.54	500.0	200.0	H	338.0	-16.3
2108.566667	48.21	---	68.20	19.99	500.0	200.0	H	0.0	-15.3
2774.966667	---	35.35	54.00	18.65	500.0	100.0	H	11.0	-13.5
3546.366667	45.39	---	68.20	22.81	500.0	200.0	V	0.0	-11.2
3994.133333	---	35.61	54.00	18.39	500.0	100.0	H	254.0	-9.5
5374.533333	65.55	---	74.00	8.45	500.0	200.0	V	241.0	-5.8
5424.933333	---	44.30	54.00	9.70	500.0	200.0	V	289.0	-5.5
5665.266667	51.04	---	68.20	17.16	500.0	200.0	V	289.0	-5.3
7310.966667	---	39.65	54.00	14.35	500.0	200.0	V	96.0	-1.7
12031.666667	---	48.54	54.00	5.46	500.0	200.0	H	344.0	6.0
15613.666667	---	48.67	54.00	5.33	500.0	100.0	H	286.0	5.5

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE80) CH106



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



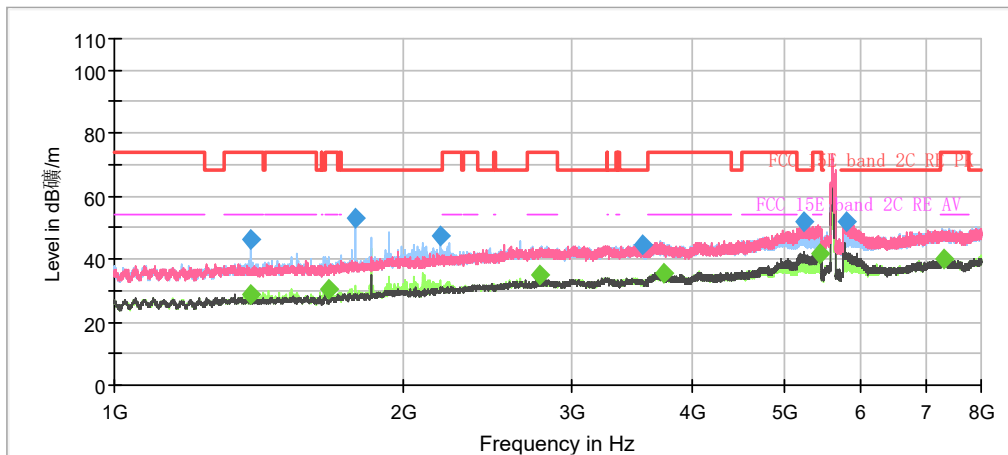
Radiates Emission from 8GHz to 18GHz

Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1276.500000	38.77	---	68.20	29.43	500.0	100.0	H	317.0	-19.7
1345.566667	---	29.16	54.00	24.84	500.0	100.0	H	328.0	-19.3
1517.300000	---	30.95	54.00	23.05	500.0	200.0	H	187.0	-18.2
1850.033333	46.29	---	68.20	21.91	500.0	100.0	H	350.0	-16.3
2146.133333	47.38	---	68.20	20.82	500.0	100.0	H	1.0	-15.2
2774.966667	---	35.13	54.00	18.87	500.0	100.0	H	328.0	-13.5
3464.000000	44.46	---	68.20	23.74	500.0	200.0	H	153.0	-11.4
3674.700000	---	35.74	54.00	18.26	500.0	100.0	H	350.0	-10.2
5420.033333	59.15	---	74.00	14.85	500.0	200.0	V	252.0	-5.6
5442.666667	---	46.22	54.00	7.78	500.0	200.0	V	274.0	-5.4
5760.233333	50.72	---	68.20	17.48	500.0	200.0	V	25.0	-5.1
7329.166667	---	39.80	54.00	14.20	500.0	100.0	V	290.0	-1.7
11060.000000	---	53.73	54.00	0.27	500.0	200.0	H	152.0	0.6
12121.000000	---	48.38	54.00	5.62	500.0	200.0	V	45.0	6.2
15666.000000	---	48.44	54.00	5.56	500.0	200.0	V	169.0	6.0

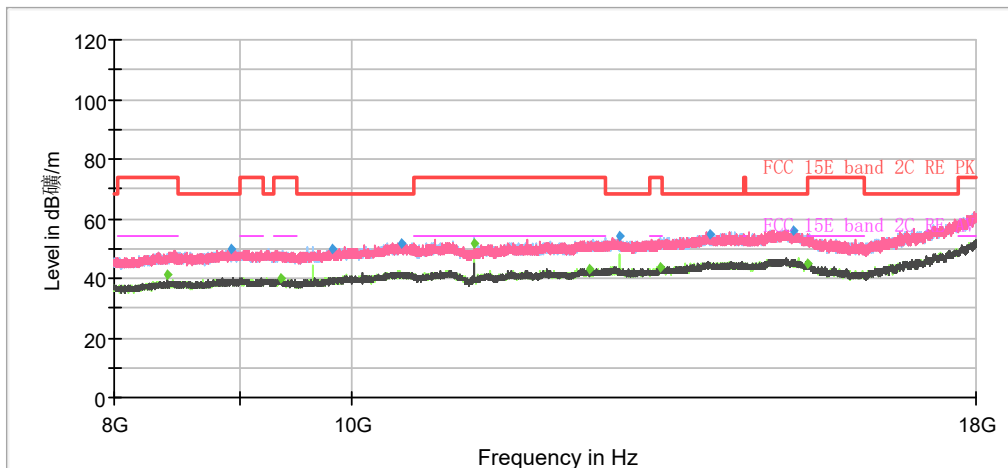
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**



802.11ax (HE80) CH122



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz

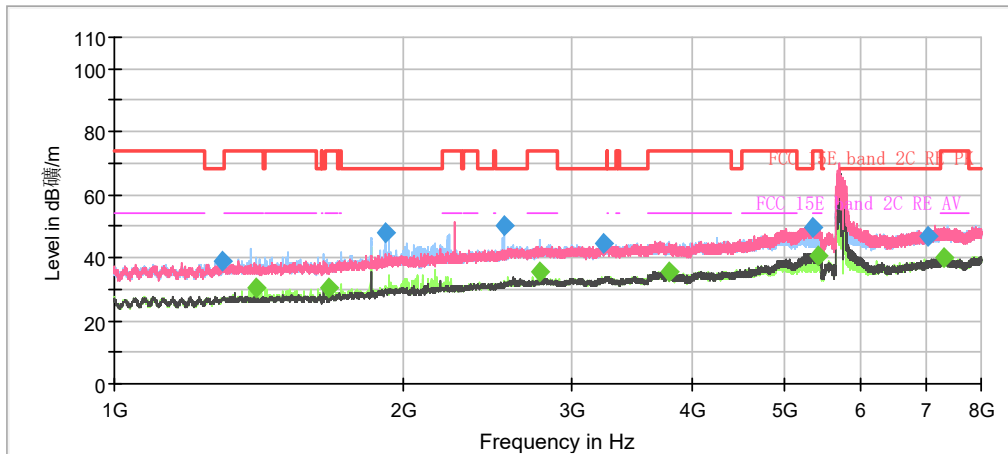


Radiates Emission from 8GHz to 18GHz

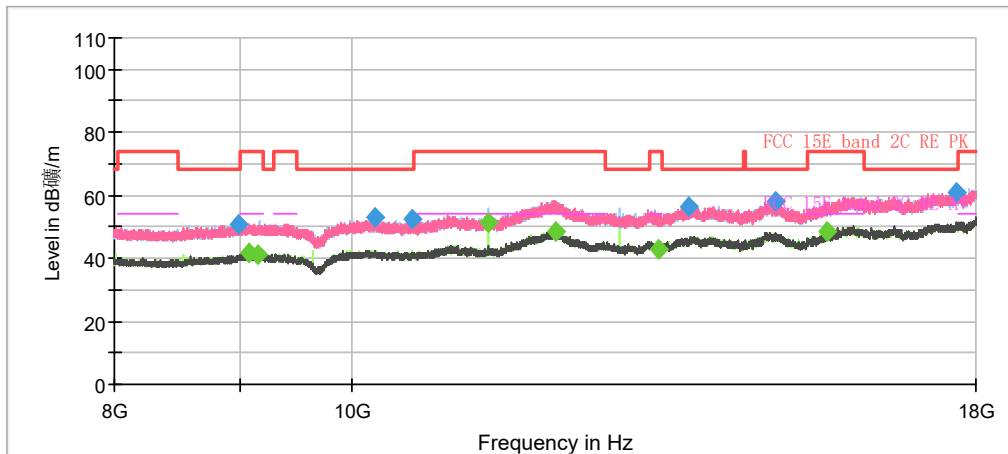
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1388.500000	---	28.93	54.00	25.07	500.0	200.0	H	0.0	-19.0
1388.500000	46.09	---	74.00	27.91	500.0	200.0	H	0.0	-19.0
1670.366667	---	30.71	54.00	23.29	500.0	200.0	H	154.0	-17.3
1785.166667	53.30	---	68.20	14.90	500.0	200.0	H	143.0	-16.7
2187.900000	47.12	---	68.20	21.08	500.0	200.0	H	290.0	-15.2
2774.733333	---	35.06	54.00	18.94	500.0	100.0	H	304.0	-13.5
3551.966667	44.51	---	68.20	23.69	500.0	200.0	V	339.0	-11.2
3729.066667	---	35.66	54.00	18.34	500.0	100.0	V	85.0	-10.3
5221.933333	52.13	---	68.20	16.07	500.0	200.0	V	306.0	-6.0
5423.066667	---	41.79	54.00	12.21	500.0	200.0	V	284.0	-5.5
5778.666667	52.10	---	68.20	16.10	500.0	200.0	V	228.0	-5.0
7325.433333	---	39.91	54.00	14.09	500.0	200.0	V	94.0	-1.7
11220.000000	---	51.44	54.00	3.56	500.0	200.0	H	163.0	1

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE80) CH138



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



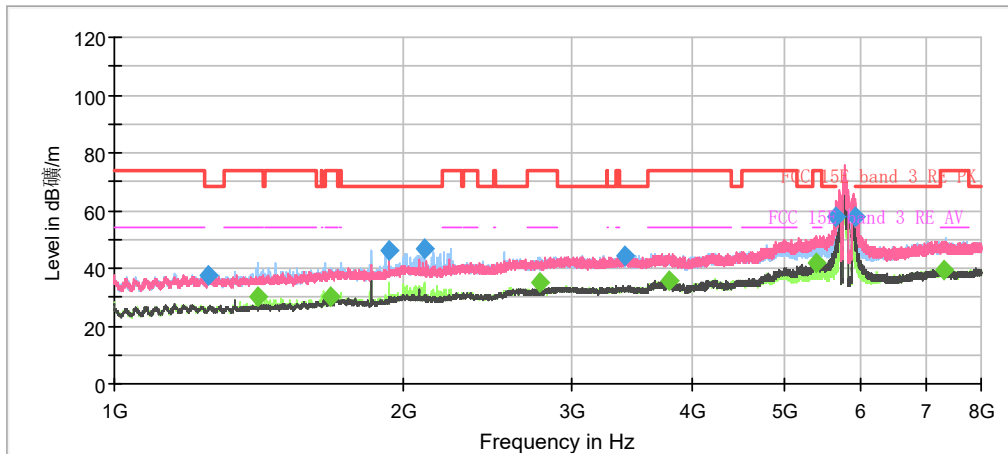
Radiates Emission from 8GHz to 18GHz



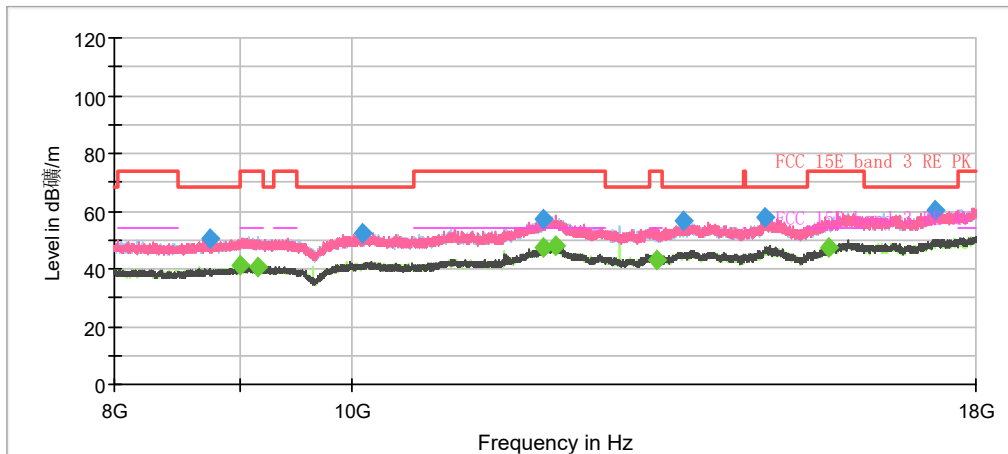
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1297.966667	38.70	---	68.20	29.50	500.0	100.0	V	140.0	-19.6
1407.400000	---	30.62	54.00	23.38	500.0	100.0	H	0.0	-18.8
1670.833333	---	30.34	54.00	23.66	500.0	200.0	H	176.0	-17.3
1919.100000	48.14	---	68.20	20.06	500.0	200.0	H	312.0	-16.0
2548.400000	50.34	---	68.20	17.86	500.0	100.0	H	340.0	-14.4
2774.733333	---	35.27	54.00	18.73	500.0	200.0	H	312.0	-13.5
3229.266667	44.81	---	68.20	23.39	500.0	200.0	V	276.0	-12.1
3781.800000	---	35.55	54.00	18.45	500.0	100.0	V	42.0	-10.1
5349.333333	49.83	---	68.20	18.37	500.0	200.0	V	287.0	-5.9
5401.600000	---	40.59	54.00	13.41	500.0	200.0	V	320.0	-5.7
7055.933333	46.99	---	68.20	21.21	500.0	100.0	H	0.0	-2.2
7326.833333	---	40.14	54.00	13.86	500.0	200.0	H	348.0	-1.7
11380.000000	---	51.30	54.00	2.70	500.0	200.0	H	151.0	1.2
12116.666667	---	48.59	54.00	5.41	500.0	100.0	H	89.0	6.2
15648.666667	---	48.32	54.00	5.68	500.0	100.0	H	180.0	5.9

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE80) CH155



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz

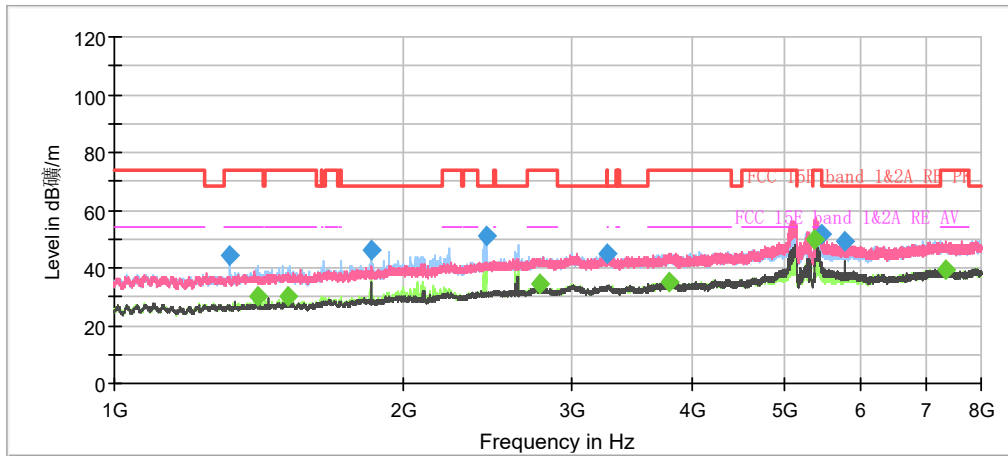


Radiates Emission from 8GHz to 18GHz

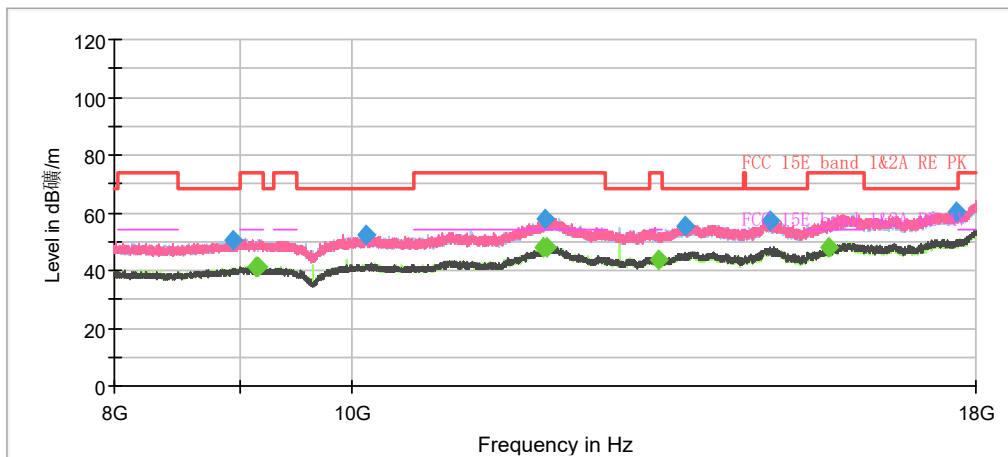
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1252.700000	37.34	---	68.20	30.86	500.0	200.0	H	1.0	-19.9
1409.966667	---	30.04	54.00	23.96	500.0	200.0	H	326.0	-18.8
1682.966667	---	30.35	54.00	23.65	500.0	200.0	H	166.0	-17.2
1932.400000	46.37	---	68.20	21.83	500.0	200.0	H	299.0	-15.9
2108.100000	46.82	---	68.20	21.38	500.0	200.0	H	0.0	-15.3
2774.966667	---	34.84	54.00	19.16	500.0	100.0	H	319.0	-13.5
3407.766667	44.60	---	68.20	23.60	500.0	200.0	V	234.0	-11.5
3778.533333	---	35.54	54.00	18.46	500.0	100.0	V	167.0	-10.1
5383.166667	---	41.86	54.00	12.14	500.0	200.0	V	220.0	-5.7
5634.700000	57.72	---	68.20	10.48	500.0	200.0	V	234.0	-5.4
5926.600000	57.87	---	68.20	10.33	500.0	200.0	V	261.0	-5.0
7322.400000	---	39.62	54.00	14.38	500.0	100.0	H	249.0	-1.7
12128.666667	---	48.12	54.00	5.88	500.0	200.0	V	80.0	6.2

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE160) CH50



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz

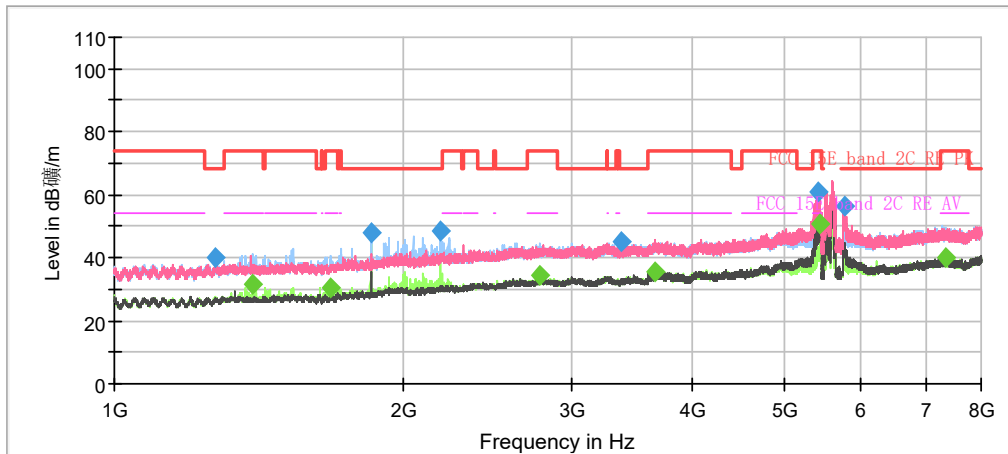


Radiates Emission from 8GHz to 18GHz

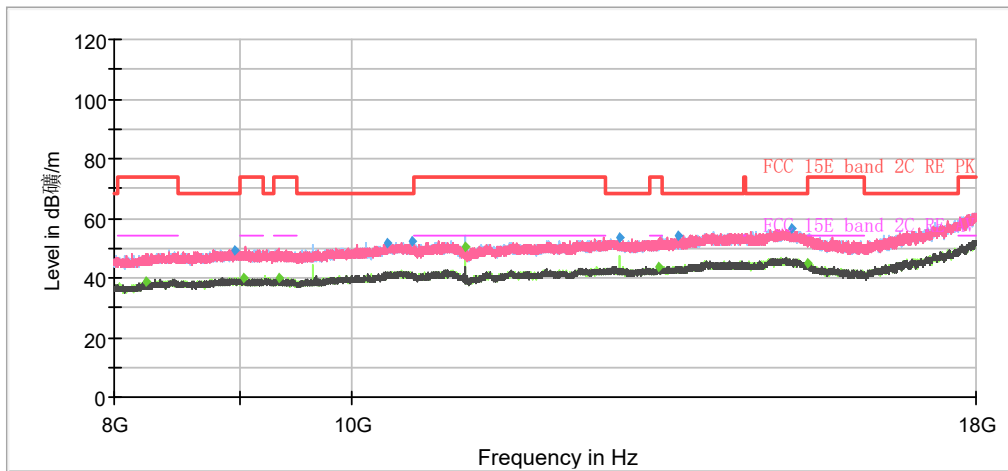
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1319.200000	44.41	---	74.00	29.59	500.0	100.0	H	152.0
1409.033333	---	29.98	54.00	24.02	500.0	200.0	H	0.0
1515.666667	---	30.18	54.00	23.82	500.0	100.0	H	0.0
1849.800000	45.90	---	68.20	22.30	500.0	100.0	H	336.0
2438.266667	50.89	---	68.20	17.31	500.0	100.0	H	30.0
2774.966667	---	34.76	54.00	19.24	500.0	100.0	H	312.0
3257.500000	44.75	---	68.20	23.45	500.0	100.0	H	197.0
3786.933333	---	35.38	54.00	18.62	500.0	100.0	H	74.0
5372.433333	---	49.94	54.00	4.06	500.0	100.0	V	231.0
5464.600000	51.54	---	68.20	16.66	500.0	200.0	V	289.0
5759.766667	49.47	---	68.20	18.73	500.0	200.0	V	164.0
7343.633333	---	39.17	54.00	14.83	500.0	100.0	V	342.0
12024.333333	---	48.24	54.00	5.76	500.0	200.0	H	204.0
15666.666667	---	48.16	54.00	5.84	500.0	200.0	V	162.0

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

802.11ax (HE160) CH114



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz

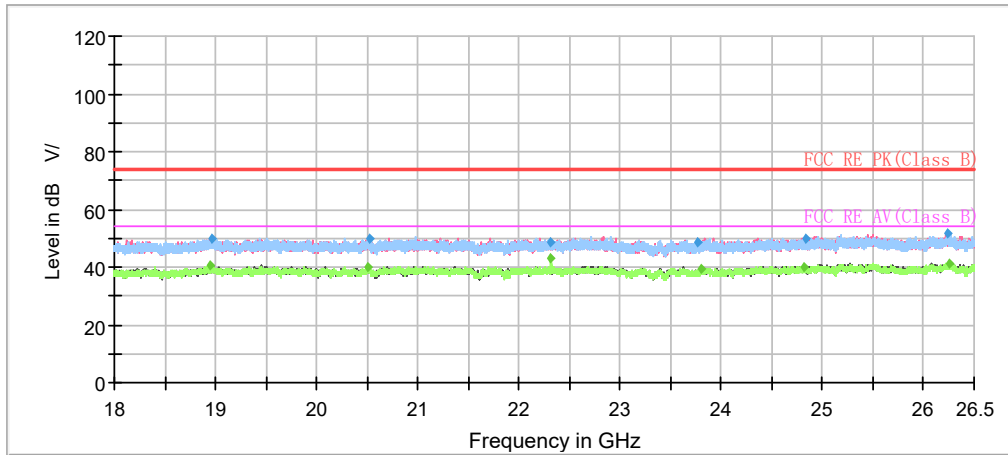


Radiates Emission from 8GHz to 18GHz

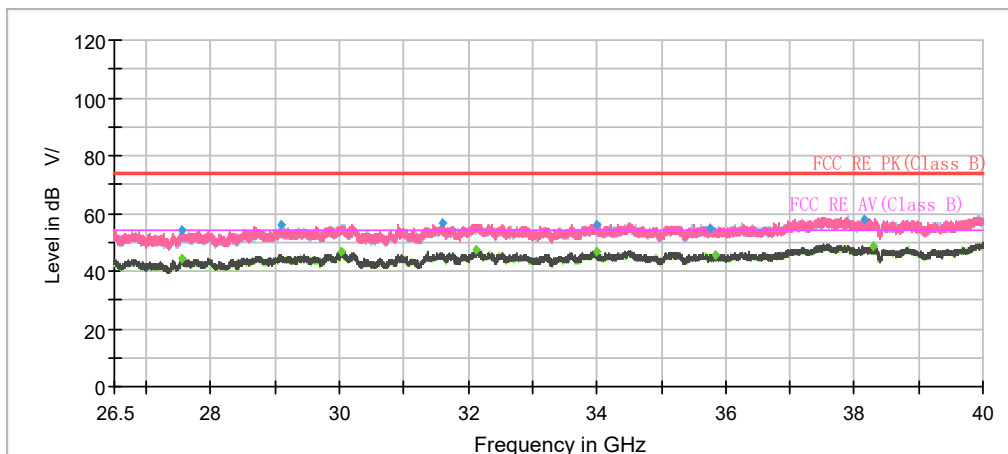
Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
1276.266667	40.09	---	68.20	28.11	500.0	200.0	H	66.0
1395.266667	---	31.49	54.00	22.51	500.0	200.0	H	324.0
1682.500000	---	30.57	54.00	23.43	500.0	100.0	H	36.0
1850.033333	47.74	---	68.20	20.46	500.0	200.0	H	0.0
2187.200000	48.60	---	68.20	19.60	500.0	200.0	H	0.0
2774.733333	---	34.66	54.00	19.34	500.0	200.0	H	359.0
3375.333333	45.14	---	68.20	23.06	500.0	100.0	V	120.0
3658.133333	---	35.42	54.00	18.58	500.0	100.0	H	196.0
5411.633333	61.17	---	74.00	12.83	500.0	200.0	V	232.0
5431.000000	---	50.69	54.00	3.31	500.0	200.0	V	232.0
5771.200000	56.21	---	68.20	11.99	500.0	200.0	V	232.0
7357.166667	---	39.87	54.00	14.13	500.0	100.0	V	120.0
11140.000000	---	50.54	54.00	3.46	500.0	200.0	H	164.0

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

During the test, the Radiates Emission from 18GHz to 40GHz was performed in all modes with all channels, 802.11ac VHT80, Channel 106 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.



Radiates Emission from 18GHz to 26.5GHz



Radiates Emission from 26.5GHz to 40GHz



Frequency (MHz)	Peak (dBuV/m)	Average (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
18947.183333	---	40.31	54.00	13.69	100.0	H	18.0	-1
18964.750000	49.56	---	74.00	24.44	100.0	H	135.0	-1
20509.766667	---	40.19	54.00	13.81	100.0	V	0.0	0
20518.833333	49.90	---	74.00	24.10	200.0	V	10.0	0
22319.700000	48.67	---	74.00	25.33	200.0	H	167.0	2
22319.983333	---	43.15	54.00	10.85	100.0	H	155.0	2
23759.600000	48.66	---	74.00	25.34	100.0	V	353.0	2
23793.033333	---	39.40	54.00	14.60	200.0	V	94.0	2
24821.533333	---	40.31	54.00	13.69	200.0	H	270.0	3
24836.833333	49.91	---	74.00	24.09	200.0	V	303.0	3
26243.866667	51.55	---	74.00	22.45	100.0	H	183.0	3
26258.033333	---	41.47	54.00	12.53	200.0	V	0.0	3

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

## 5.6. Conducted Emission

### Ambient condition

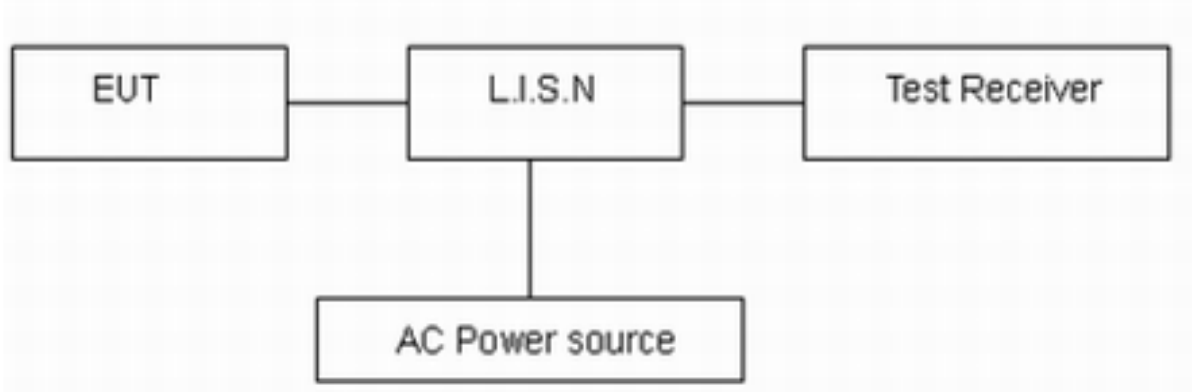
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Methods of Measurement

The EUT IS placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10. Connect the AC power line of the EUT to the LISN Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9kHz, VBW is set to 30kHz The measurement result should include both L line and N line.

The test is in transmitting mode.

### Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

### Limits

Frequency (MHz)	Conducted Limits(dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

\*: Decreases with the logarithm of the frequency.

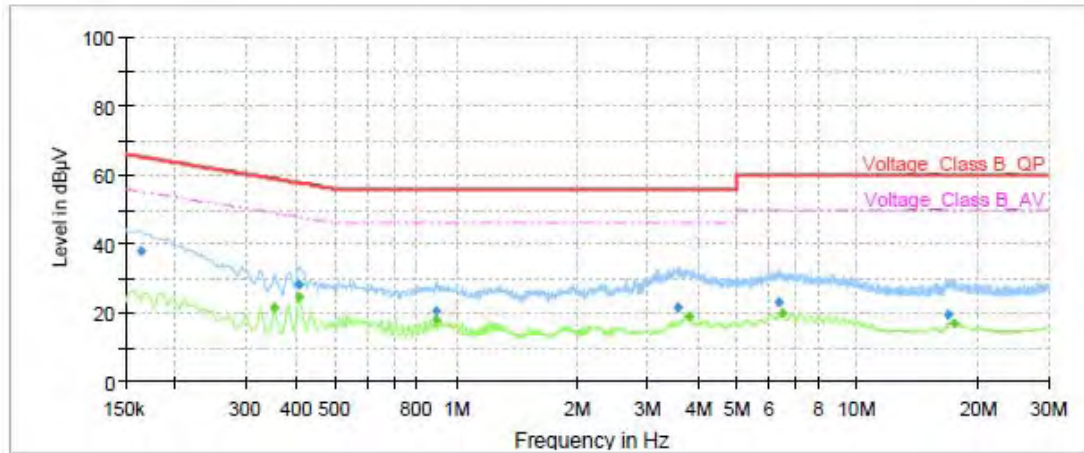
### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

**Test Results:**

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11ax HE20, Channel 60 for HL , 802.11ac VHT80, Channel 106 for DZZ are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

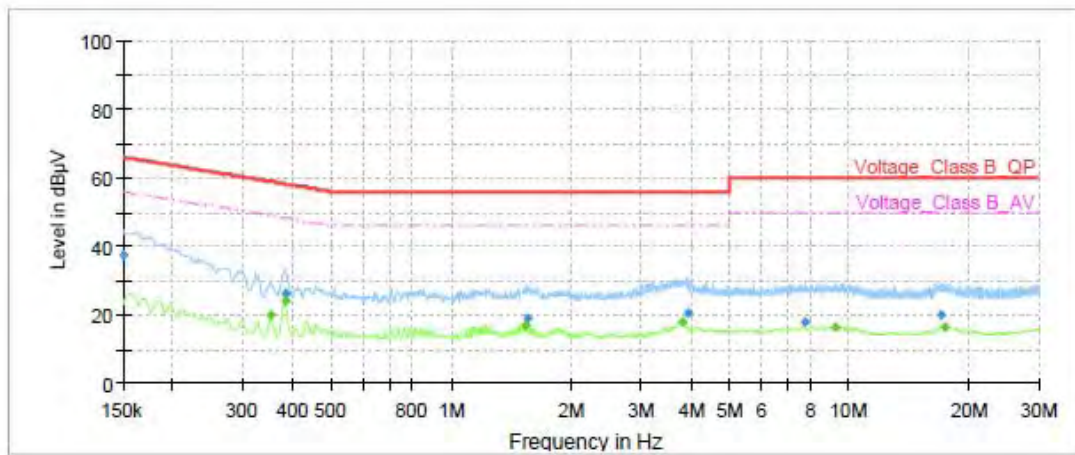
**Internal Antenna 1: HL**



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	37.88	---	65.28	27.40	70.0	9.000	L1	ON	21
0.35	---	21.70	48.90	27.20	70.0	9.000	L1	ON	21
0.41	---	24.49	47.72	23.23	70.0	9.000	L1	ON	20
0.41	28.02	---	57.72	29.70	70.0	9.000	L1	ON	20
0.89	20.70	---	56.00	35.30	70.0	9.000	L1	ON	20
0.89	---	18.13	46.00	27.87	70.0	9.000	L1	ON	20
3.58	21.74	---	56.00	34.26	70.0	9.000	L1	ON	19
3.79	---	18.84	46.00	27.16	70.0	9.000	L1	ON	19
6.33	23.10	---	60.00	36.90	70.0	9.000	L1	ON	19
6.47	---	20.19	50.00	29.81	70.0	9.000	L1	ON	19
16.87	19.74	---	60.00	40.26	70.0	9.000	L1	ON	20
17.42	---	16.70	50.00	33.30	70.0	9.000	L1	ON	20

**Remark: Correct factor=cable loss + LISN factor**

L line Conducted Emission from 150 KHz to 30 MHz

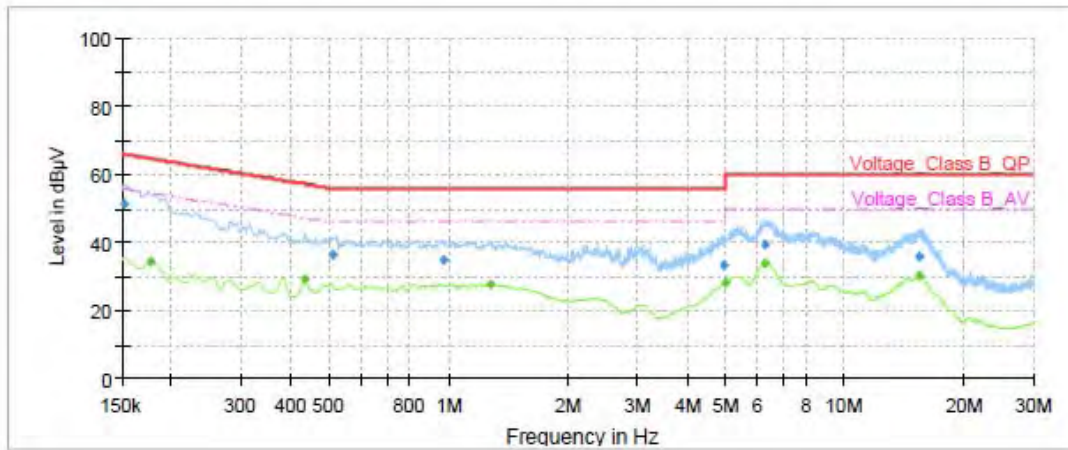


Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	37.63	---	66.00	28.37	70.0	9.000	N	ON	21
0.35	---	20.01	48.90	28.89	70.0	9.000	N	ON	21
0.38	---	23.97	48.24	24.27	70.0	9.000	N	ON	21
0.38	26.41	---	58.24	31.83	70.0	9.000	N	ON	21
1.54	---	16.93	46.00	29.07	70.0	9.000	N	ON	20
1.56	18.90	---	56.00	37.10	70.0	9.000	N	ON	20
3.82	---	17.85	46.00	28.15	70.0	9.000	N	ON	19
3.91	20.64	---	56.00	35.36	70.0	9.000	N	ON	19
7.76	18.04	---	60.00	41.96	70.0	9.000	N	ON	20
9.24	---	16.64	50.00	33.36	70.0	9.000	N	ON	20
16.96	19.78	---	60.00	40.22	70.0	9.000	N	ON	20
17.38	---	16.45	50.00	33.55	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

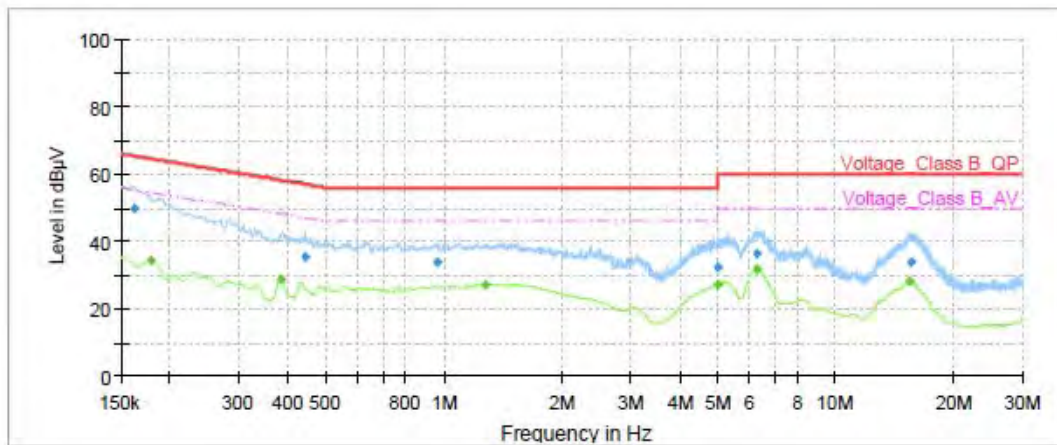
Internal Antenna 2: DZZ



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.15	51.31	---	65.88	14.57	70.0	9.000	L1	ON	21
0.18	---	34.25	54.63	20.38	70.0	9.000	L1	ON	21
0.43	---	29.32	47.23	17.91	70.0	9.000	L1	ON	20
0.51	36.35	---	56.00	19.65	70.0	9.000	L1	ON	20
0.97	34.76	---	56.00	21.24	70.0	9.000	L1	ON	20
1.27	---	27.56	46.00	18.44	70.0	9.000	L1	ON	20
4.95	33.32	---	56.00	22.68	70.0	9.000	L1	ON	19
5.00	---	28.42	46.00	17.58	70.0	9.000	L1	ON	19
6.32	39.28	---	60.00	20.72	70.0	9.000	L1	ON	19
6.32	---	34.10	50.00	15.90	70.0	9.000	L1	ON	19
15.43	---	30.22	50.00	19.78	70.0	9.000	L1	ON	20
15.44	35.87	---	60.00	24.13	70.0	9.000	L1	ON	20

Remark: Correct factor=cable loss + LISN factor

L line Conducted Emission from 150 KHz to 30 MHz



Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.16	49.75	---	65.40	15.65	70.0	9.000	N	ON	21
0.18	---	34.37	54.52	20.15	70.0	9.000	N	ON	21
0.38	---	28.84	48.19	19.35	70.0	9.000	N	ON	21
0.44	35.36	---	57.02	21.65	70.0	9.000	N	ON	20
0.96	34.07	---	56.00	21.93	70.0	9.000	N	ON	20
1.28	---	27.40	46.00	18.60	70.0	9.000	N	ON	20
4.99	---	27.30	46.00	18.70	70.0	9.000	N	ON	19
5.00	32.18	---	56.00	23.82	70.0	9.000	N	ON	19
6.30	---	31.58	50.00	18.42	70.0	9.000	N	ON	20
6.30	36.32	---	60.00	23.68	70.0	9.000	N	ON	20
15.34	---	28.35	50.00	21.65	70.0	9.000	N	ON	20
15.63	33.64	---	60.00	26.36	70.0	9.000	N	ON	20

Remark: Correct factor=cable loss + LISN factor

N line Conducted Emission from 150 KHz to 30 MHz

## 6. Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Date
Power Sensor	R&S	NRP18S	101955	2021-05-15	2022-05-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420163	2020-12-13	2021-12-12
Climate Chamber	ESPEC	SU-242	93000506	2020-12-13	2021-12-12
EMI Test Receiver	R&S	ESR	102389	2020-12-13	2021-12-12
Signal Analyzer	R&S	FSV40	100815	2020-12-13	2021-12-12
TRILOG Broadband Antenna	SCHWARZBECK	9163	1023	2020-05-05	2023-05-04
Horn Antenna	Schwarzbeck	BBHA 9120D	430	2021-07-26	2024-07-25
Artificial main network	R&S	ENV216	102191	2020-12-13	2022-12-12
EMI Test Receiver	R&S	ESR	101667	2021-05-15	2022-05-14
Software	R&S	EMC32	10.35.10	/	/

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

## ANNEX A: The EUT Appearance

The EUT Appearance are submitted separately.



## ANNEX B: Test Setup Photos

The Test Setup Photos are submitted separately.

## ANNEX C: Product Change Description

The Product Change Description are submitted separately.