

Appendix B_Radiated Spurious Emission Data for 2.4GHz WIFI:

1.Radiated Spurious Emission and Restricted Band

Test Result

Radiated Spurious Emission:

For 9 kHz ~ 30 MHz

Note:

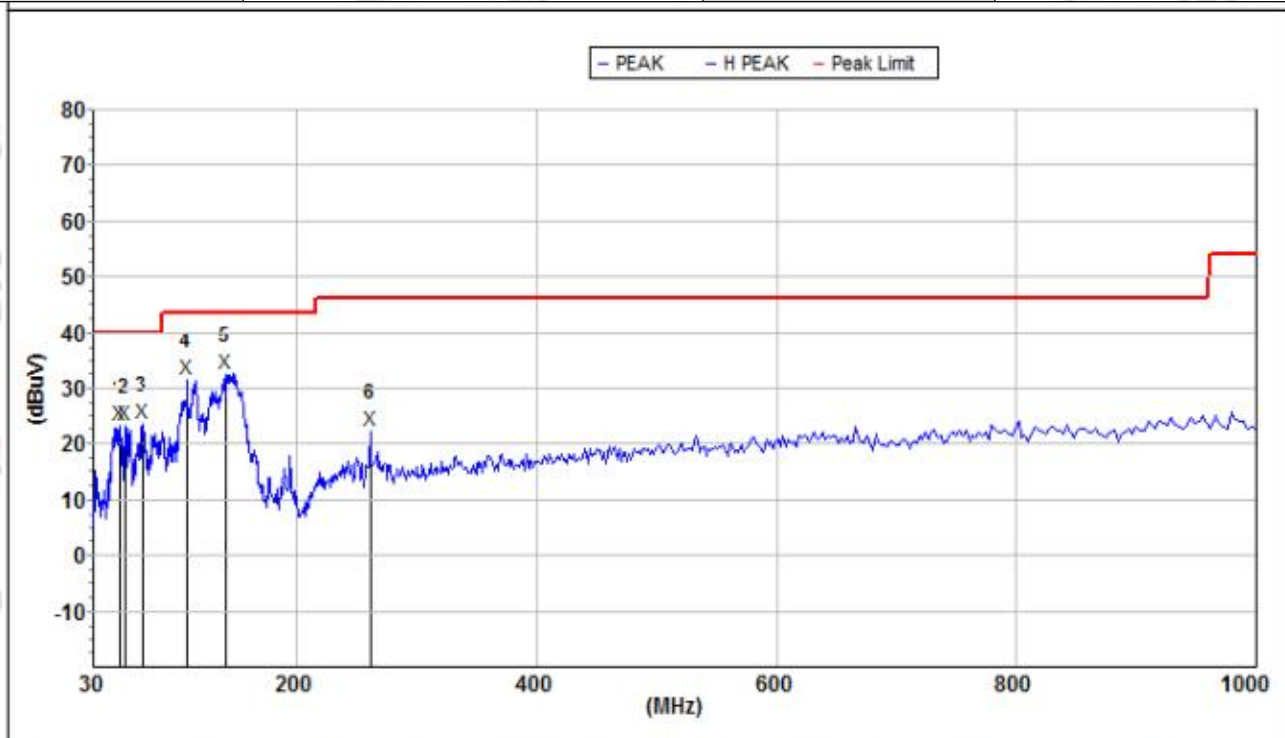
- 1.The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported data.
- 2.The all data rate modes had been test, but only worse test data was recorded in the test report.

Below 1GHz:

Note:

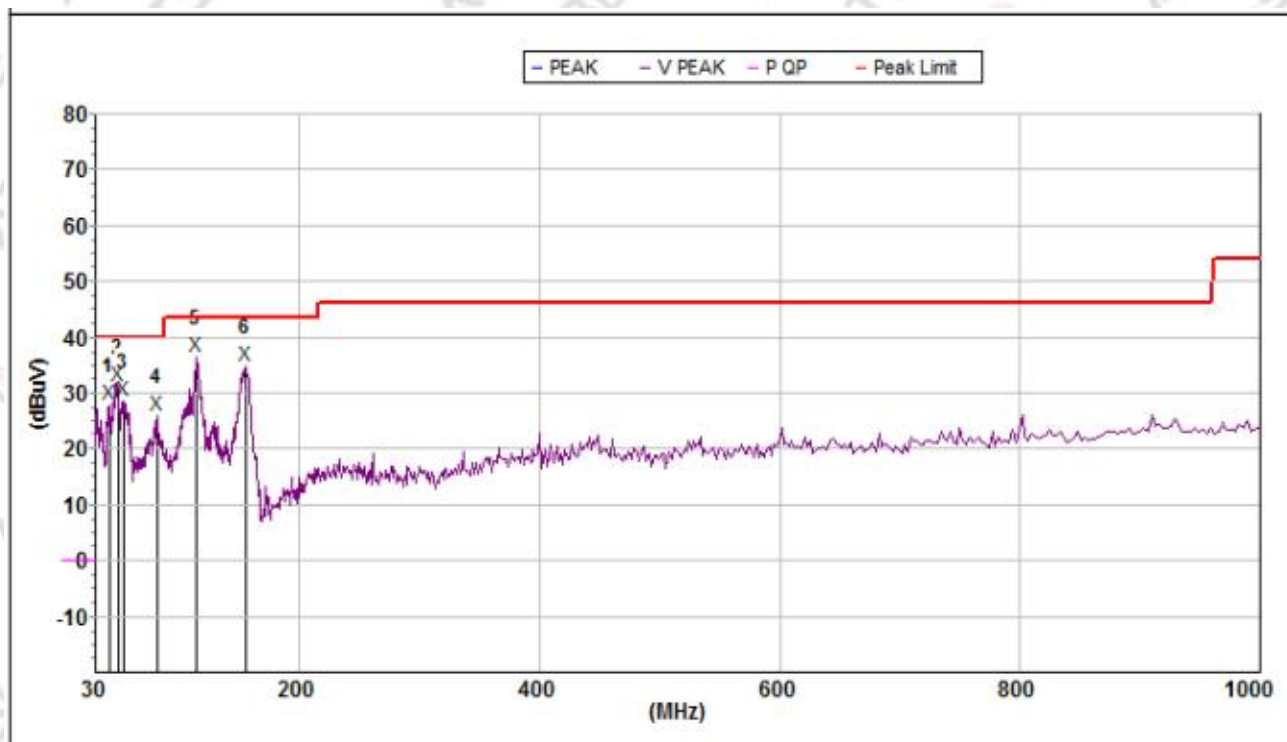
- 1.All modes have been tested, only worst (802.11n20-TX Channel 6)mode was recorded in the test report.
- 2.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
- 3.Correction Factor (dB/m) = Antenna Pol. Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
- 4.The emission levels of other frequencies were less than 20dB margin against the limit.
- 5.Margin value = Emission level-Limit value.

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol. Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	51.843	65.8	-42.4	23.4	40.0	16.6	H
2	57.191	66.6	-43.3	23.3	40.0	16.7	H
3	71.330	68.8	-44.9	23.9	40.0	16.1	H
4	107.888	69.9	-38.1	31.8	43.5	11.7	H
5	140.835	65.9	-33.2	32.7	43.5	10.8	H
6	261.058	49.9	-27.6	22.3	46.0	23.7	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol.	Vertical



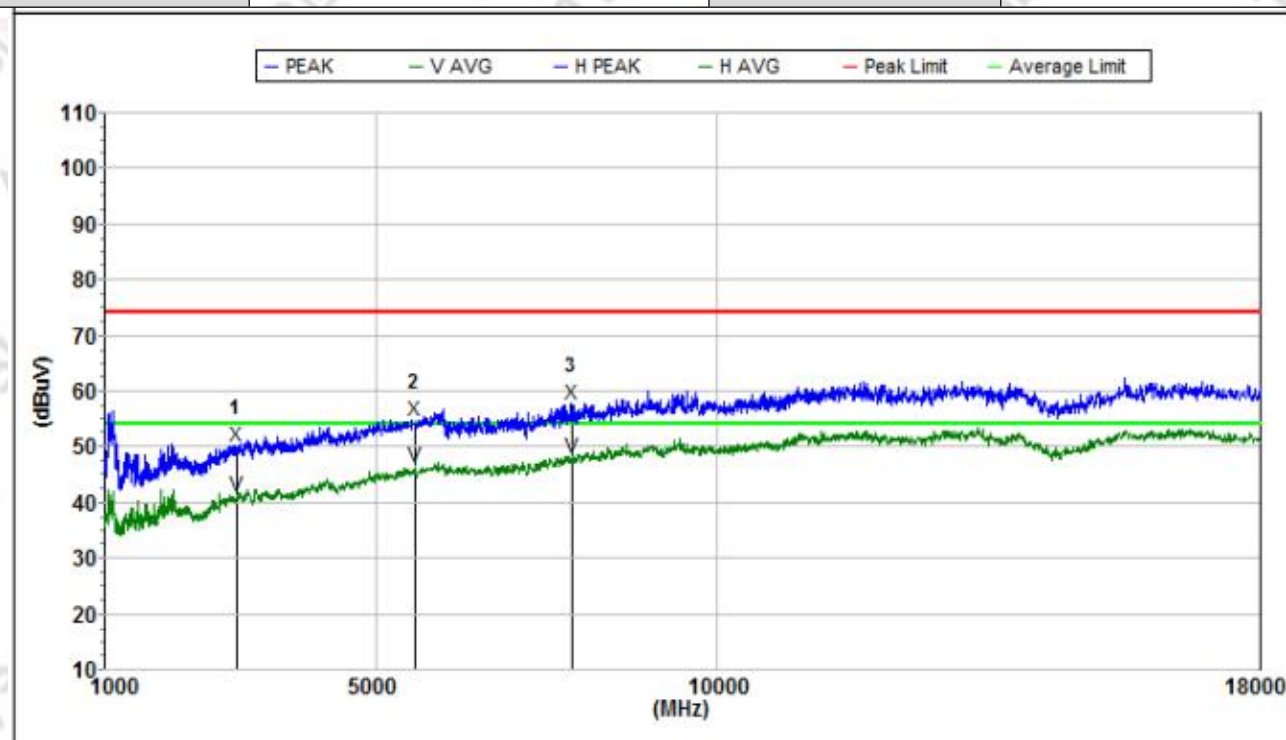
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	41.132	73.5	-45.4	28.1	40.0	11.9	V
2	48.502	75.5	-44.1	31.4	40.0	8.6	V
3	53.131	72.1	-43.5	28.6	40.0	11.4	V
4	80.927	69.0	-43.0	26.0	40.0	14.0	V
5	114.515	68.4	-31.9	36.5	43.5	7.0	V
6	154.821	70.3	-35.3	35.0	43.5	8.5	V

1GHz-18GHz:

Note:

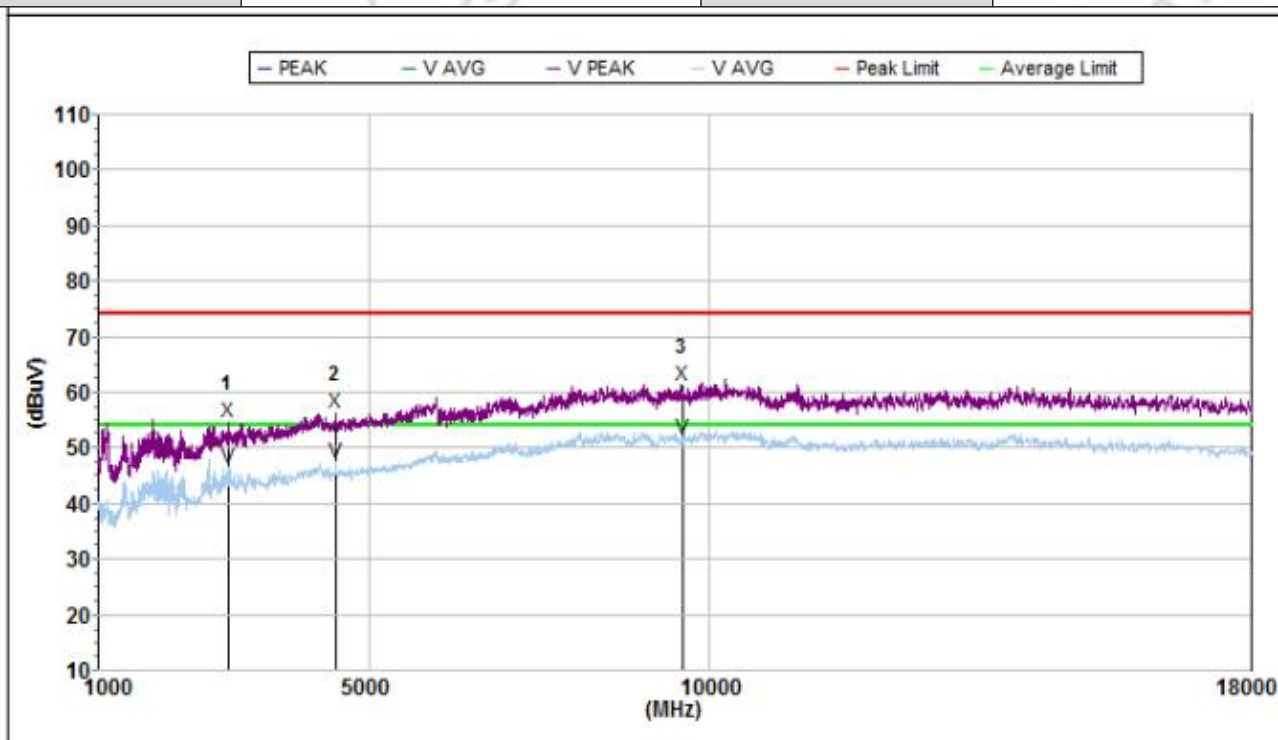
- 1.All modes have been tested, only worst (802.11n)mode was recorded in the test report.
- 2.We used the filter to test and the main frequency was filtered out.
- 3.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
4. Correction Factor (dB/m) = Antenna Pol. Factor (dB/m) + Cable Factor (dB)-Amplifier Gain.
5. Margin value = Emission level-Limit value.

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 1	Antenna Pol.	Horizontal



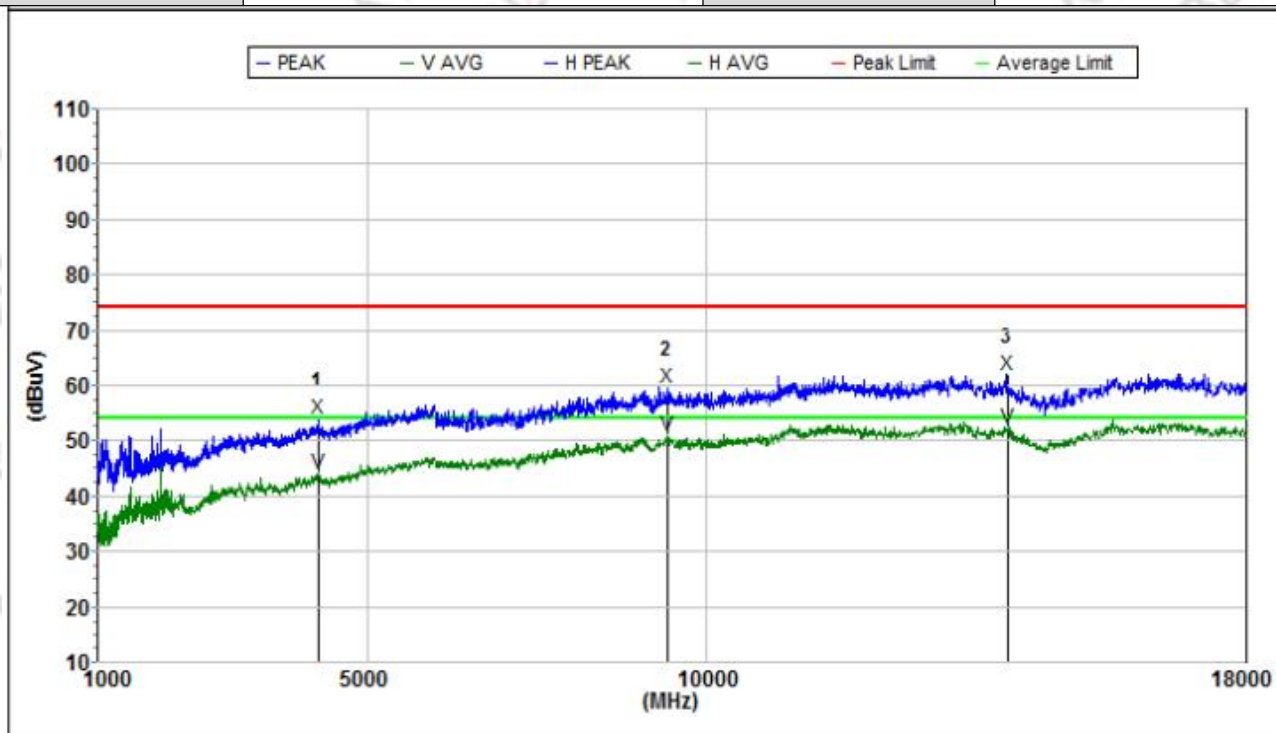
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2945.000	61.6	-11.4	50.2	74.0	23.8	H
2	5575.000	59.4	-4.6	54.8	74.0	19.2	H
3	7866.000	58.9	-1.2	57.7	74.0	16.3	H
Avg							
1	2945.000	52.8	-11.4	41.4	54.0	12.6	H
2	5575.000	51.1	-4.6	46.5	54.0	7.5	H
3	7866.000	49.4	-1.2	48.2	54.0	5.8	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 1	Antenna Pol.	Vertical



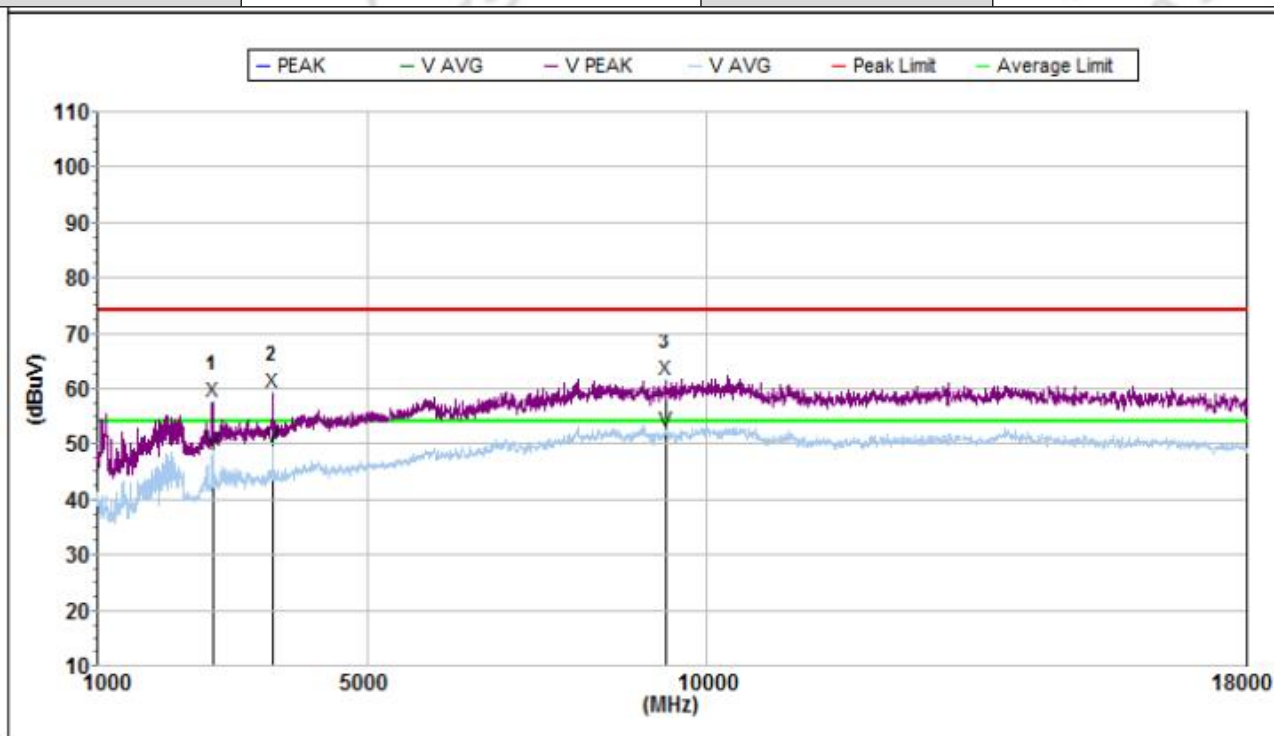
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2932.500	64.1	-9.4	54.7	74.0	19.3	V
2	4505.000	61.3	-5.0	56.3	74.0	17.7	V
3	9618.000	58.9	2.5	61.4	74.0	12.6	V
Avg							
1	2932.500	55.8	-9.4	46.4	54.0	7.6	V
2	4505.000	52.5	-5.0	47.5	54.0	6.5	V
3	9618.000	49.2	2.5	51.7	54.0	2.3	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol.	Horizontal



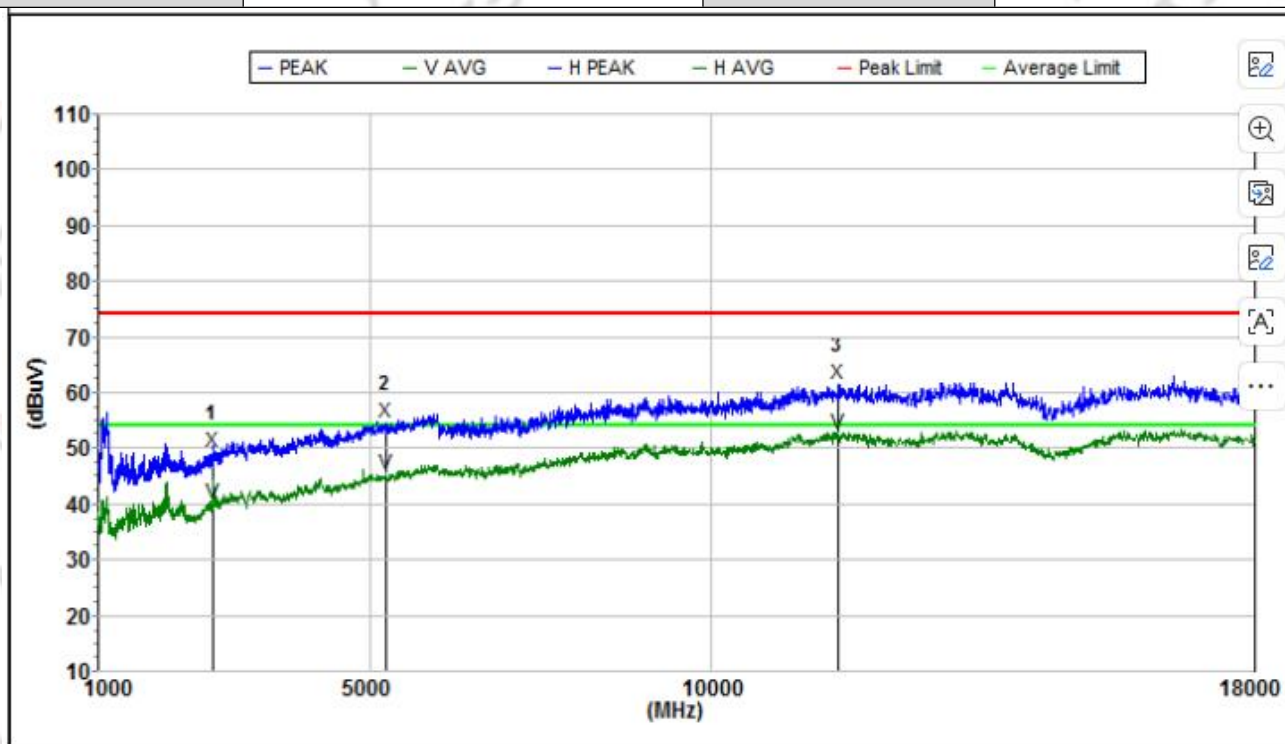
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	4270.000	62.0	-7.8	54.2	74.0	19.8	H
2	9444.000	59.1	0.5	59.6	74.0	14.4	H
3	14478.000	59.7	2.4	62.1	74.0	11.9	H
Avg							
1	4270.000	52.1	-7.8	44.3	54.0	9.7	H
2	9444.000	50.6	0.5	51.1	54.0	2.9	H
3	14478.000	50.1	2.4	52.5	54.0	1.5	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol.	Vertical



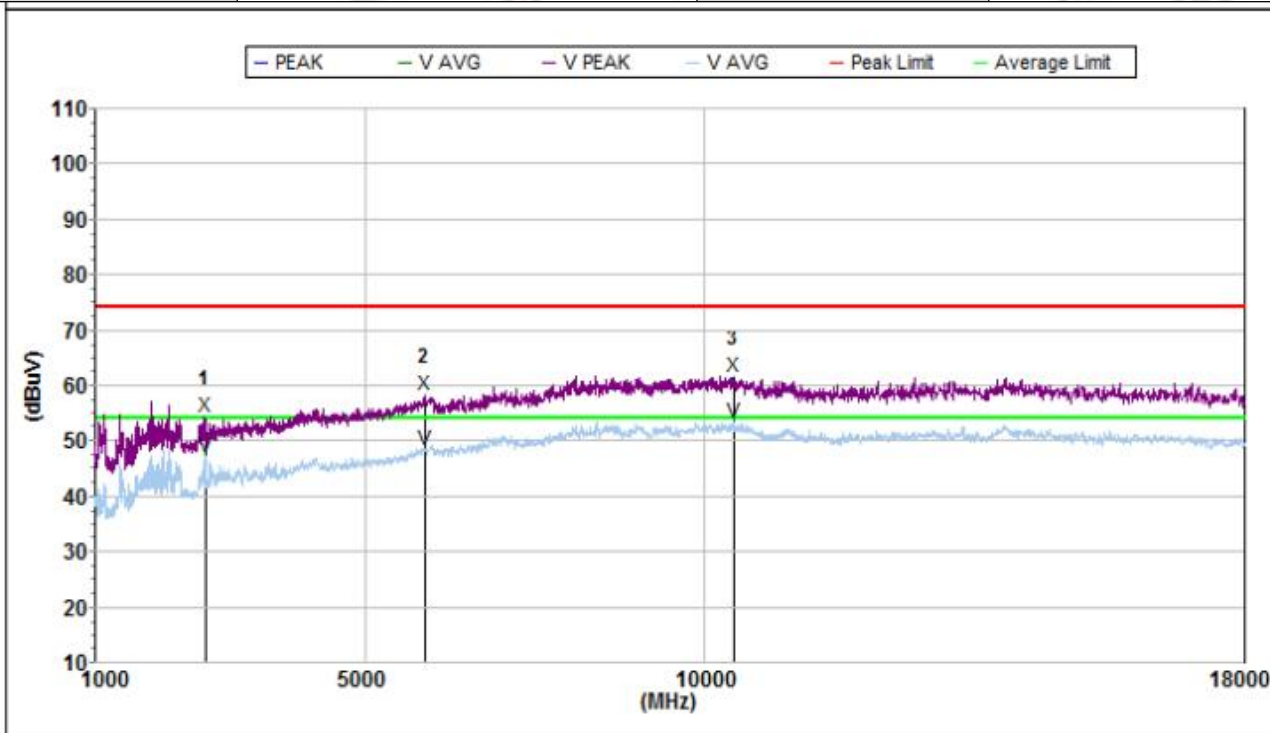
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2700.000	68.4	-10.7	57.7	74.0	16.3	V
2	3590.000	67.7	-8.3	59.4	74.0	14.6	V
3	9420.000	59.4	2.3	61.7	74.0	12.3	V
Avg							
1	2700.000	59.4	-10.7	48.7	54.0	5.3	V
2	3590.000	57.7	-8.3	49.4	54.0	4.6	V
3	9420.000	50.2	2.3	52.5	54.0	1.5	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 11	Antenna Pol.	Horizontal



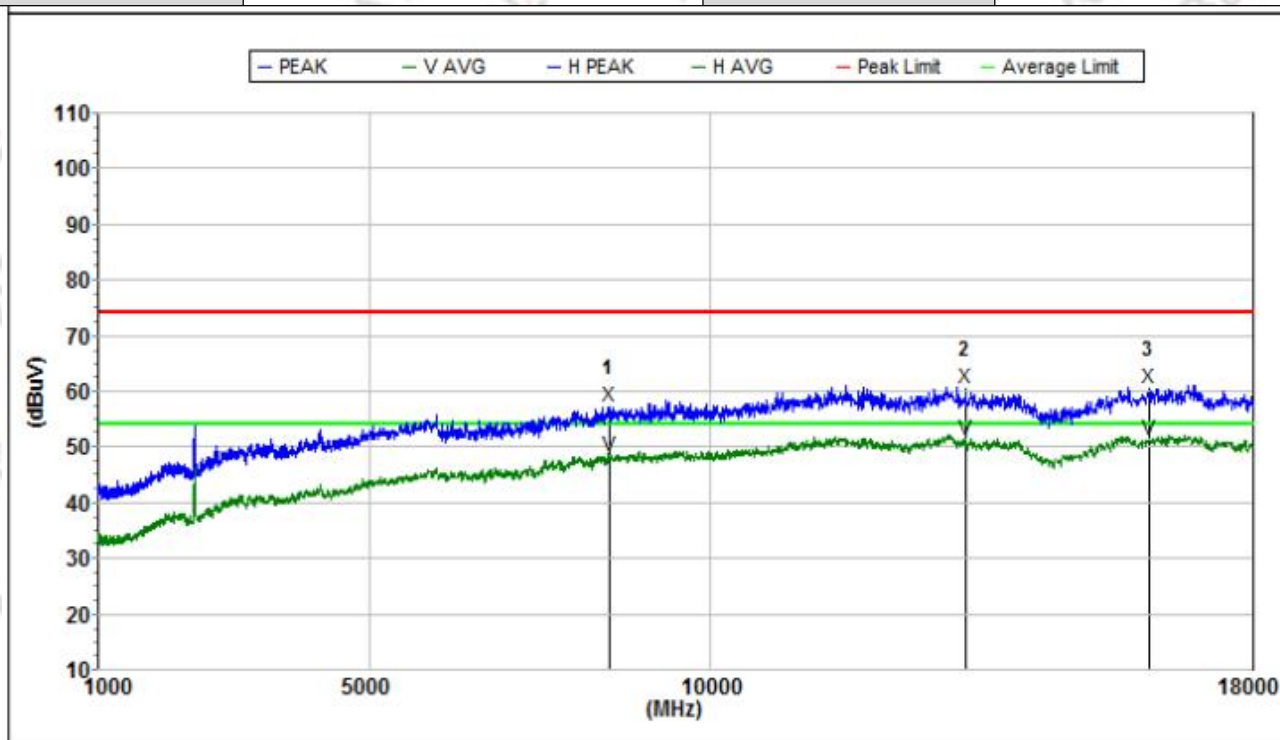
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2685.000	62.5	-13.0	49.5	74.0	24.5	H
2	5220.000	60.1	-5.2	54.9	74.0	19.1	H
3	11868.000	58.9	2.9	61.8	74.0	12.2	H
Avg							
1	2685.000	53.2	-13.0	40.2	54.0	13.8	H
2	5220.000	50.6	-5.2	45.4	54.0	8.6	H
3	11868.000	49.8	2.9	52.7	54.0	1.3	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 11	Antenna Pol.	Vertical



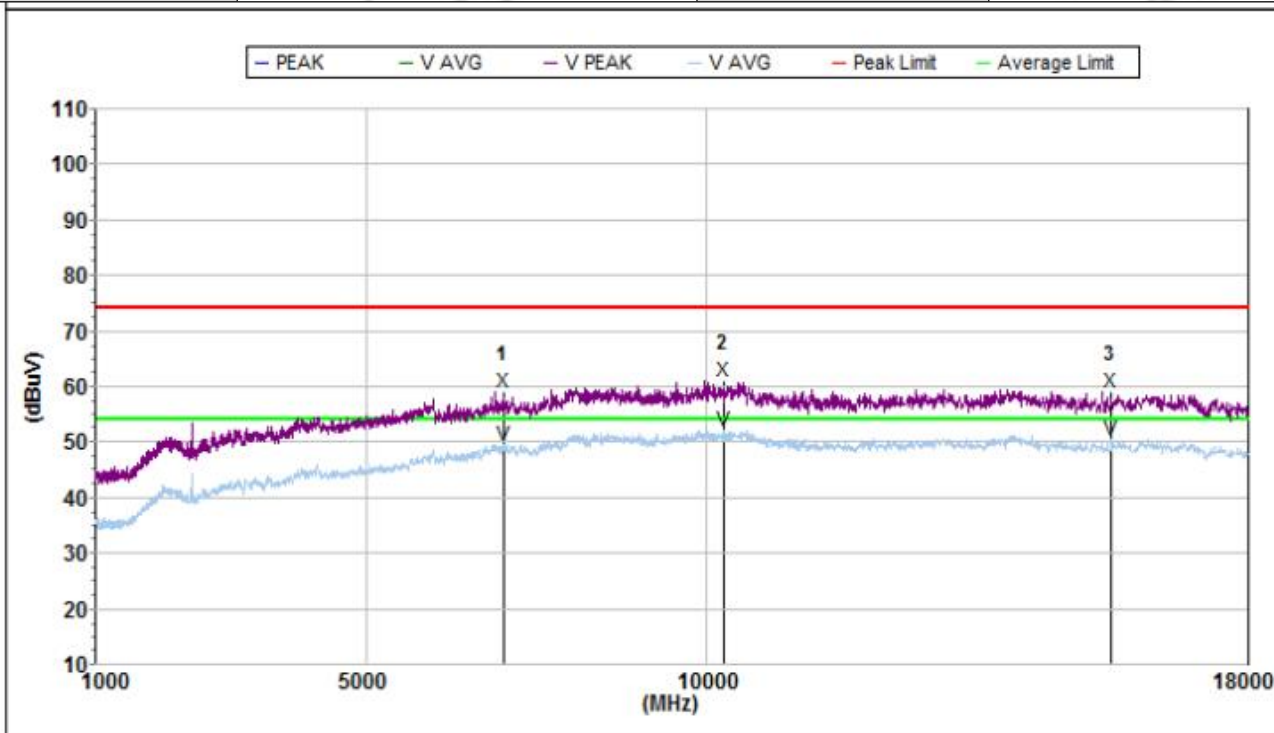
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2622.500	65.4	-11.1	54.3	74.0	19.7	V
2	5887.500	60.1	-1.6	58.5	74.0	15.5	V
3	10452.000	58.2	3.3	61.5	74.0	12.5	V
Avg							
1	2622.500	58.4	-11.1	47.3	54.0	6.7	V
2	5887.500	50.1	-1.6	48.5	54.0	5.5	V
3	10452.000	50.1	3.3	53.4	54.0	0.6	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 3	Antenna Pol.	Horizontal



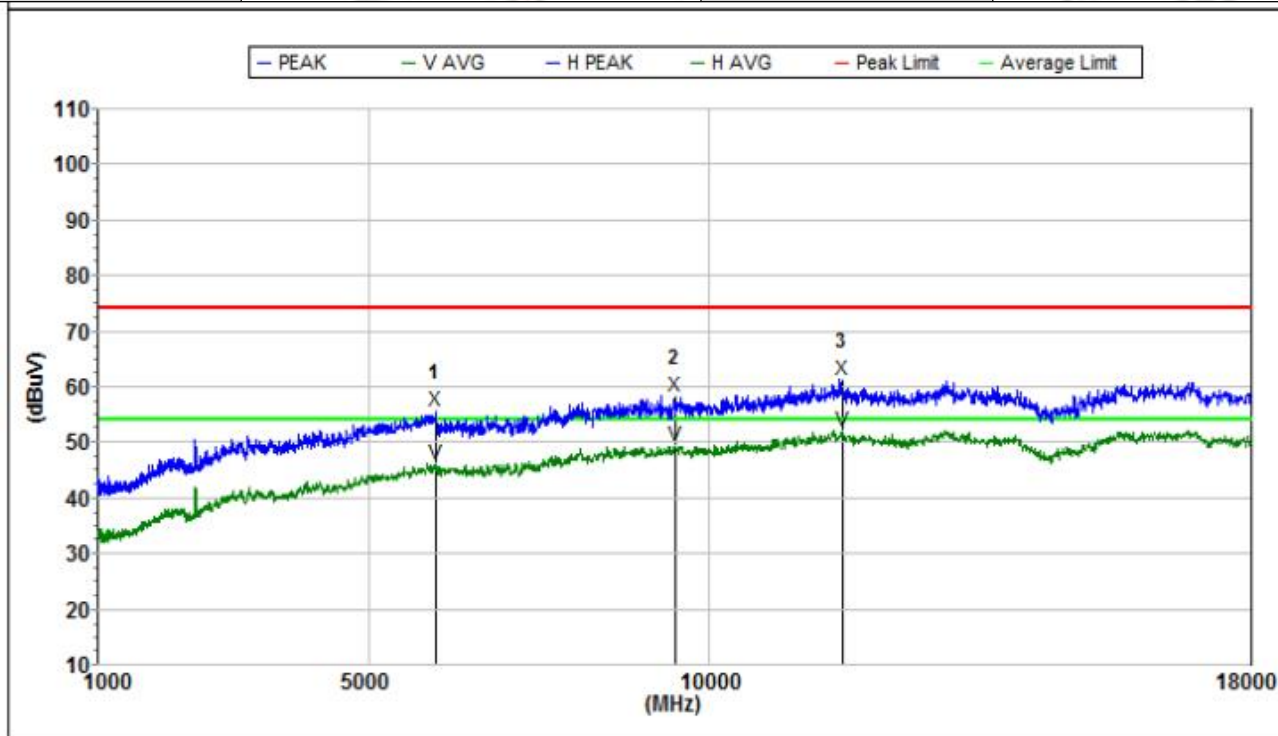
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	8514.000	57.9	-0.5	57.4	74.0	16.6	H
2	13758.000	58.0	2.7	60.7	74.0	13.3	H
3	16464.000	57.1	3.6	60.7	74.0	13.3	H
Avg							
1	8514.000	49.0	-0.5	48.5	54.0	5.5	H
2	13758.000	48.7	2.7	51.4	54.0	2.6	H
3	16464.000	47.8	3.6	51.4	54.0	2.6	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 3	Antenna Pol.	Vertical



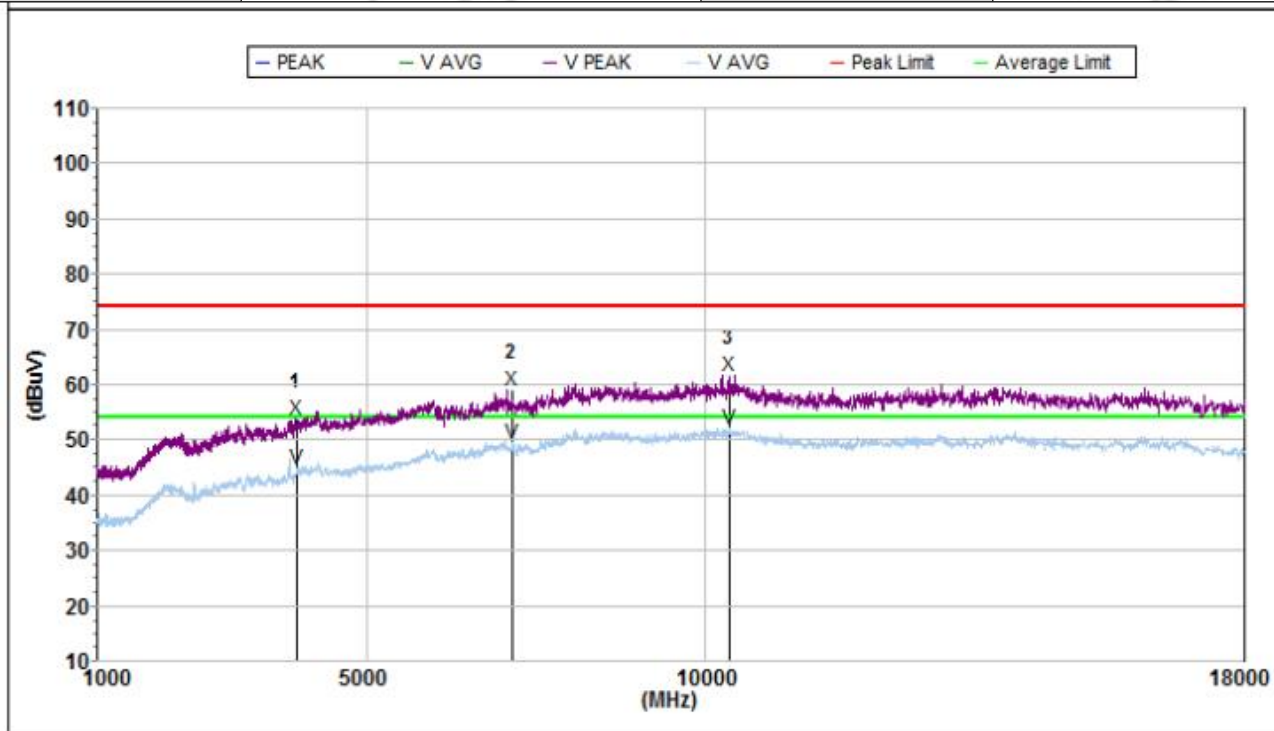
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	7026.000	58.2	0.8	59.0	74.0	15.0	V
2	10254.000	57.9	3.2	61.1	74.0	12.9	V
3	15984.000	57.2	1.7	58.9	74.0	15.1	V
Avg							
1	7026.000	48.7	0.8	49.5	54.0	4.5	V
2	10254.000	48.9	3.2	52.1	54.0	1.9	V
3	15984.000	48.6	1.7	50.3	54.0	3.7	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 6	Antenna Pol.	Horizontal



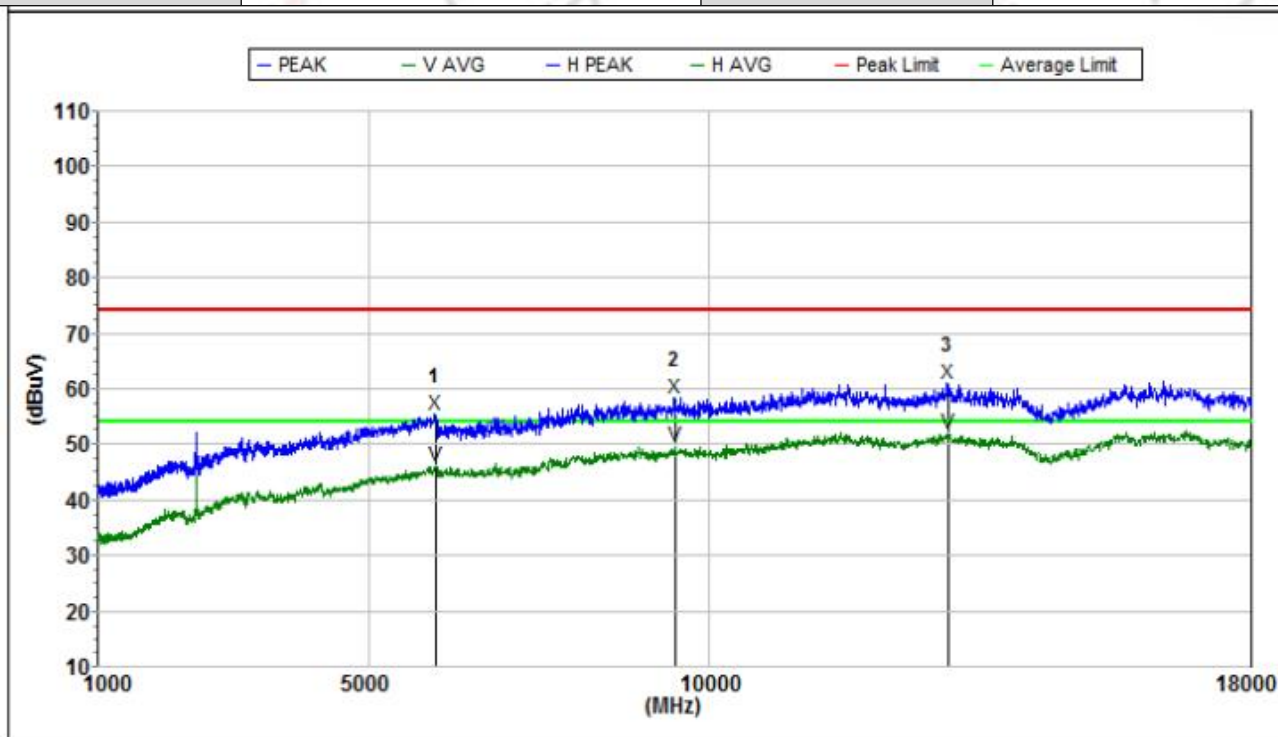
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	5985.000	58.9	-3.2	55.7	74.0	18.3	H
2	9504.000	57.8	0.5	58.3	74.0	15.7	H
3	11982.000	58.2	3.1	61.3	74.0	12.7	H
Avg							
1	5985.000	49.4	-3.2	46.2	54.0	7.8	H
2	9504.000	49.1	0.5	49.6	54.0	4.4	H
3	11982.000	49.1	3.1	52.2	54.0	1.8	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 6	Antenna Pol.	Vertical



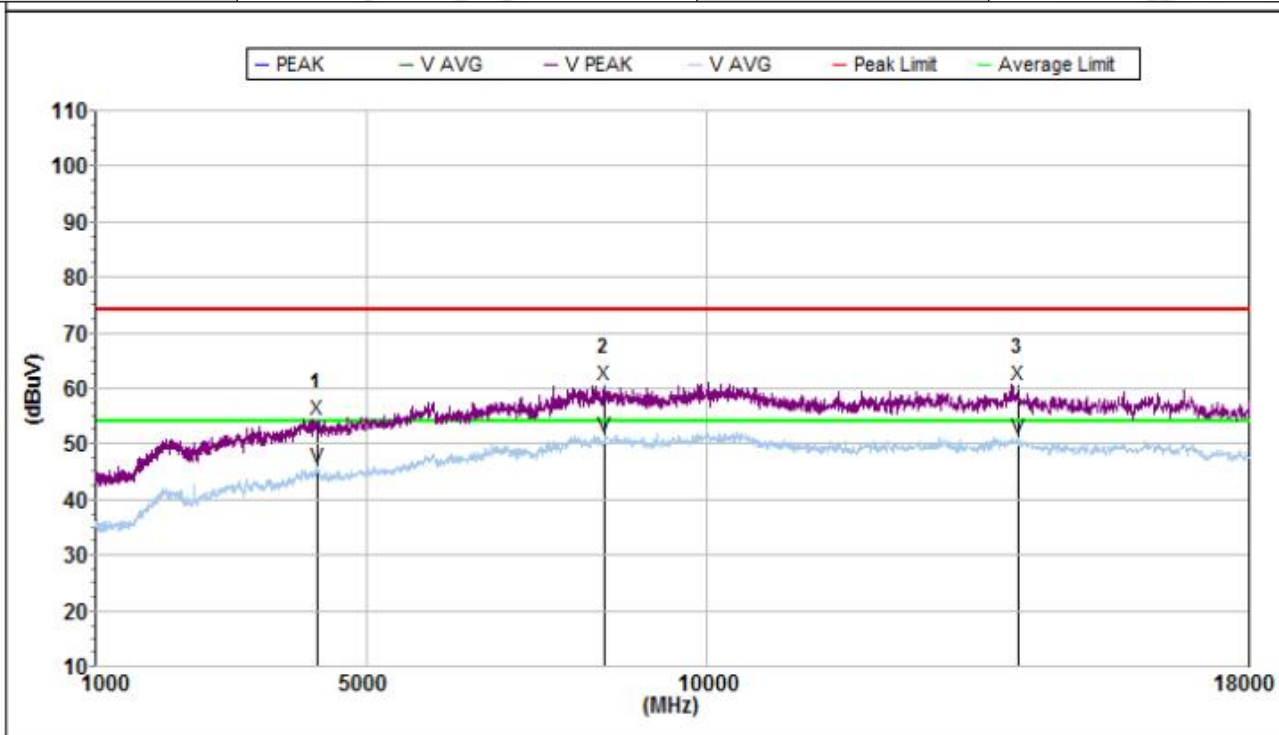
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	3960.000	59.3	-5.6	53.7	74.0	20.3	V
2	7158.000	58.3	0.7	59.0	74.0	15.0	V
3	10368.000	58.4	3.3	61.7	74.0	12.3	V
Avg							
1	3960.000	50.5	-5.6	44.9	54.0	9.1	V
2	7158.000	48.9	0.7	49.6	54.0	4.4	V
3	10368.000	48.8	3.3	52.1	54.0	1.9	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 9	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	5982.500	58.6	-3.2	55.4	74.0	18.6	H
2	9510.000	57.7	0.5	58.2	74.0	15.8	H
3	13530.000	57.9	3.2	61.1	74.0	12.9	H
Avg							
1	5982.500	49.4	-3.2	46.2	54.0	7.8	H
2	9510.000	49.2	0.5	49.7	54.0	4.3	H
3	13530.000	48.9	3.2	52.1	54.0	1.9	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40-TX Channel 9	Antenna Pol.	Vertical



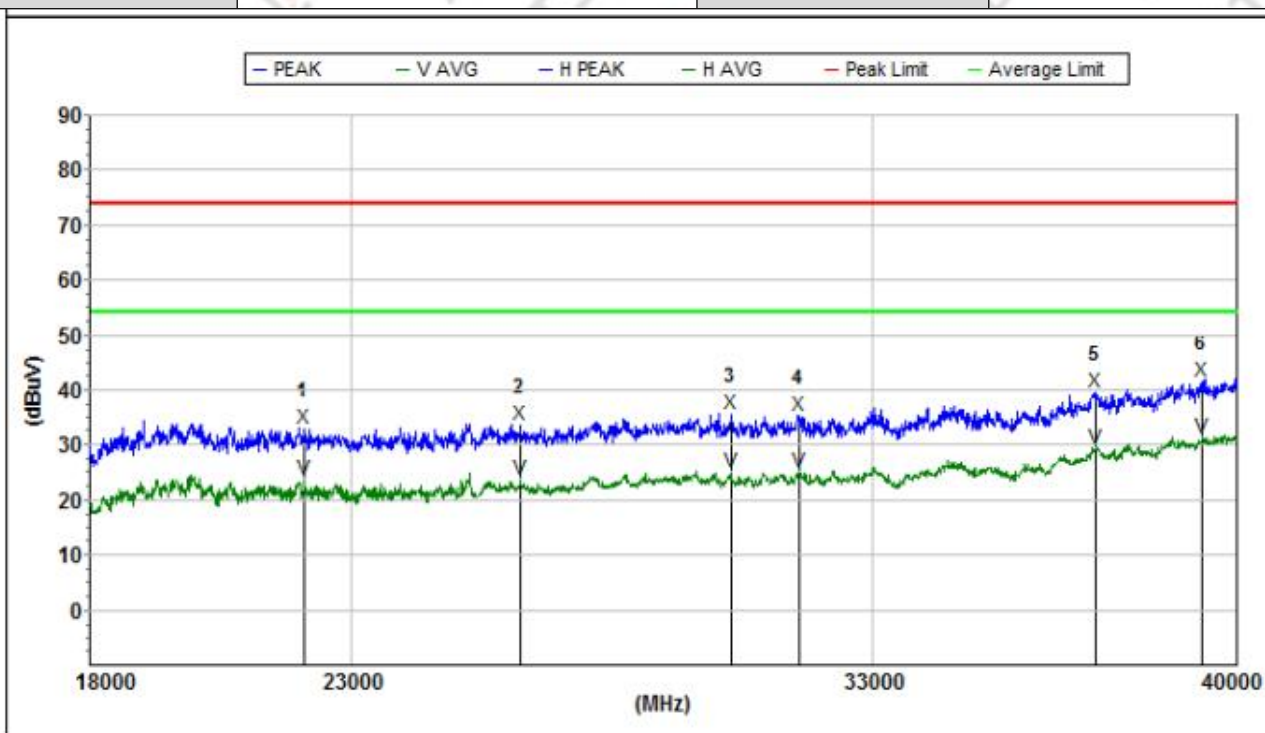
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	4275.000	59.5	-5.1	54.4	74.0	19.6	V
2	8502.000	58.3	2.4	60.7	74.0	13.3	V
3	14598.000	58.3	2.3	60.6	74.0	13.4	V
Avg							
1	4275.000	50.9	-5.1	45.8	54.0	8.2	V
2	8502.000	49.0	2.4	51.4	54.0	2.6	V
3	14598.000	48.7	2.3	51.0	54.0	3.0	V

18GHz-40GHz:

Note:

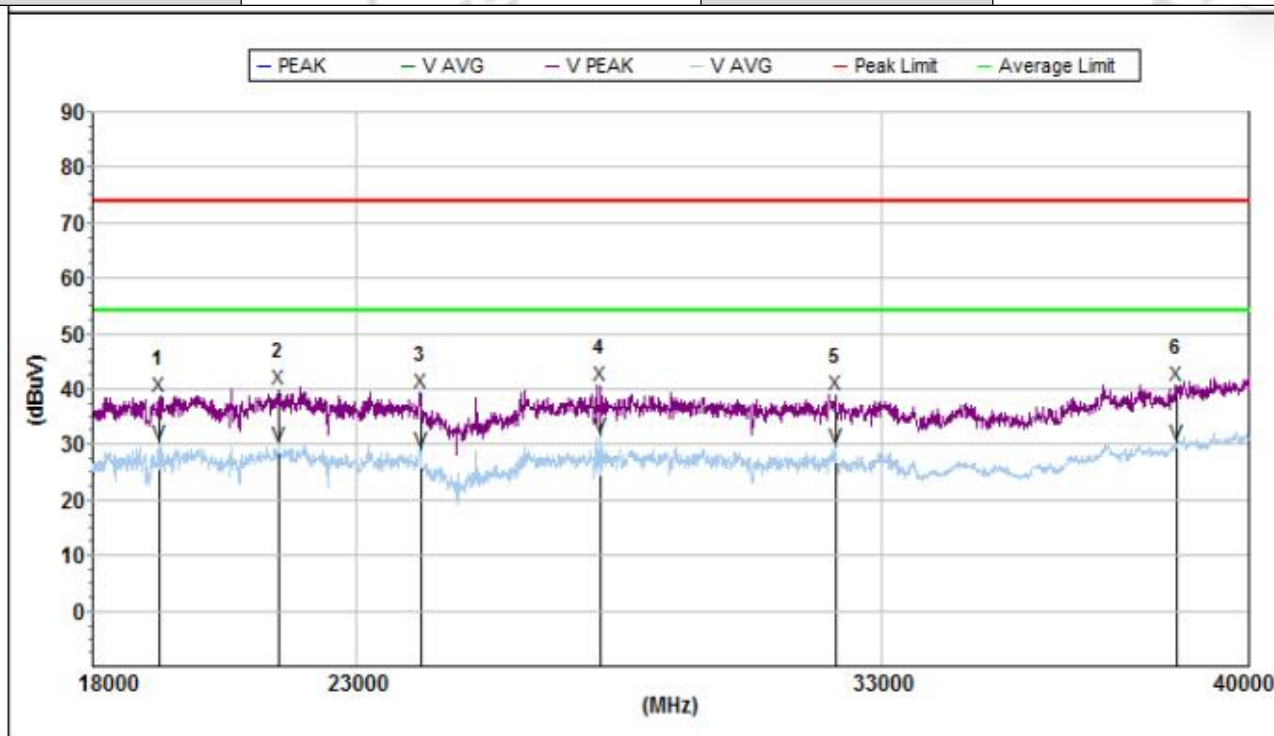
All modes have been tested, only worst (802.11n40-TX Channel 3)mode was recorded in the test report.

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	22114.000	54.8	-21.6	33.2	74.0	40.8	H
2	26261.000	51.3	-17.7	33.6	74.0	40.4	H
3	30298.000	52.8	-17.0	35.8	74.0	38.2	H
4	31618.000	52.1	-16.8	35.3	74.0	38.7	H
5	37305.000	56.5	-16.8	39.7	74.0	34.3	H
6	39340.000	56.9	-15.3	41.6	74.0	32.4	H
Avg							
1	22114.000	45.4	-21.6	23.8	54.0	30.2	H
2	26261.000	41.7	-17.7	24.0	54.0	30.0	H
3	30298.000	42.2	-17.0	25.2	54.0	28.8	H
4	31618.000	42.1	-16.8	25.3	54.0	28.7	H
5	37305.000	46.3	-16.8	29.5	54.0	24.5	H
6	39340.000	46.9	-15.3	31.6	54.0	22.4	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Antenna Pol.	Vertical



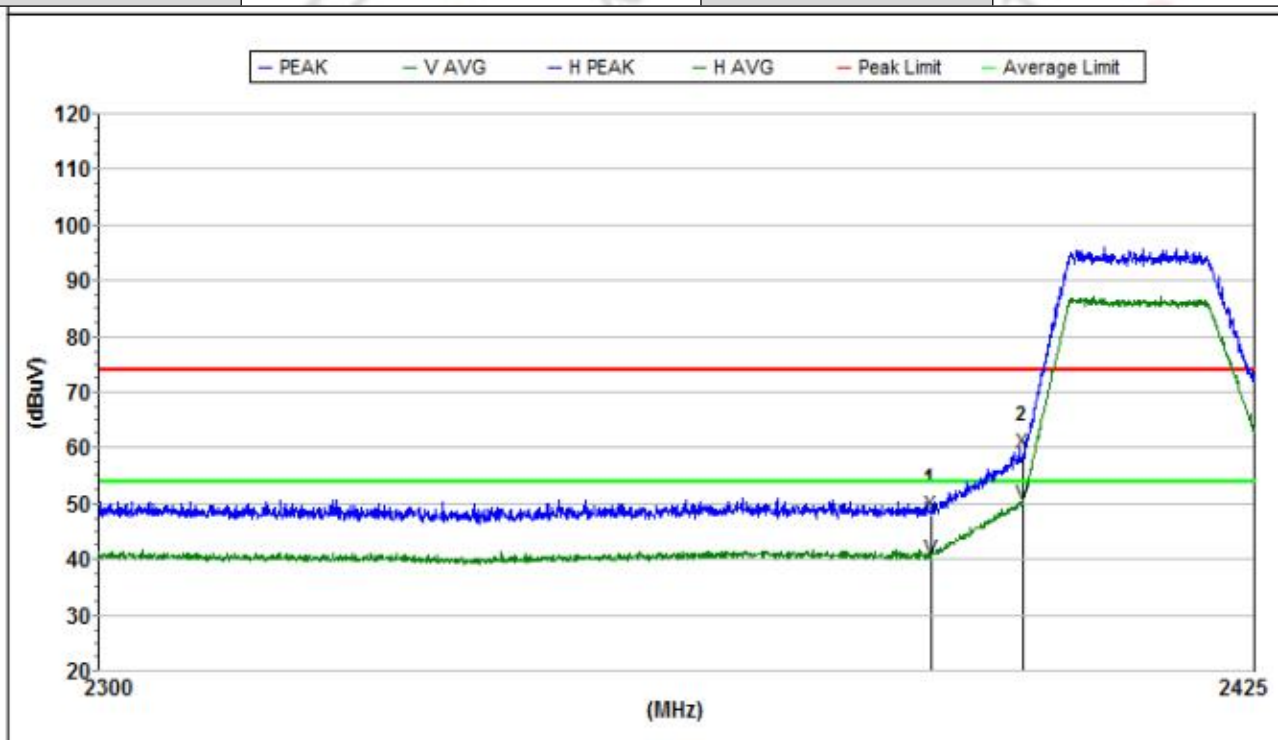
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	19287.000	38.8	0.0	38.8	74.0	35.2	V
2	21542.000	39.9	0.0	39.9	74.0	34.1	V
3	24248.000	39.4	0.0	39.4	74.0	34.6	V
4	27658.000	40.7	0.0	40.7	74.0	33.3	V
5	32135.000	39.0	0.0	39.0	74.0	35.0	V
6	38636.000	40.8	0.0	40.8	74.0	33.2	V
Avg							
1	19287.000	30.1	0.0	30.1	54.0	23.9	V
2	21542.000	29.8	0.0	29.8	54.0	24.2	V
3	24248.000	28.8	0.0	28.8	54.0	25.2	V
4	27658.000	31.5	0.0	31.5	54.0	22.5	V
5	32135.000	29.5	0.0	29.5	54.0	24.5	V
6	38636.000	30.1	0.0	30.1	54.0	23.9	V

Restricted Band:

Note:

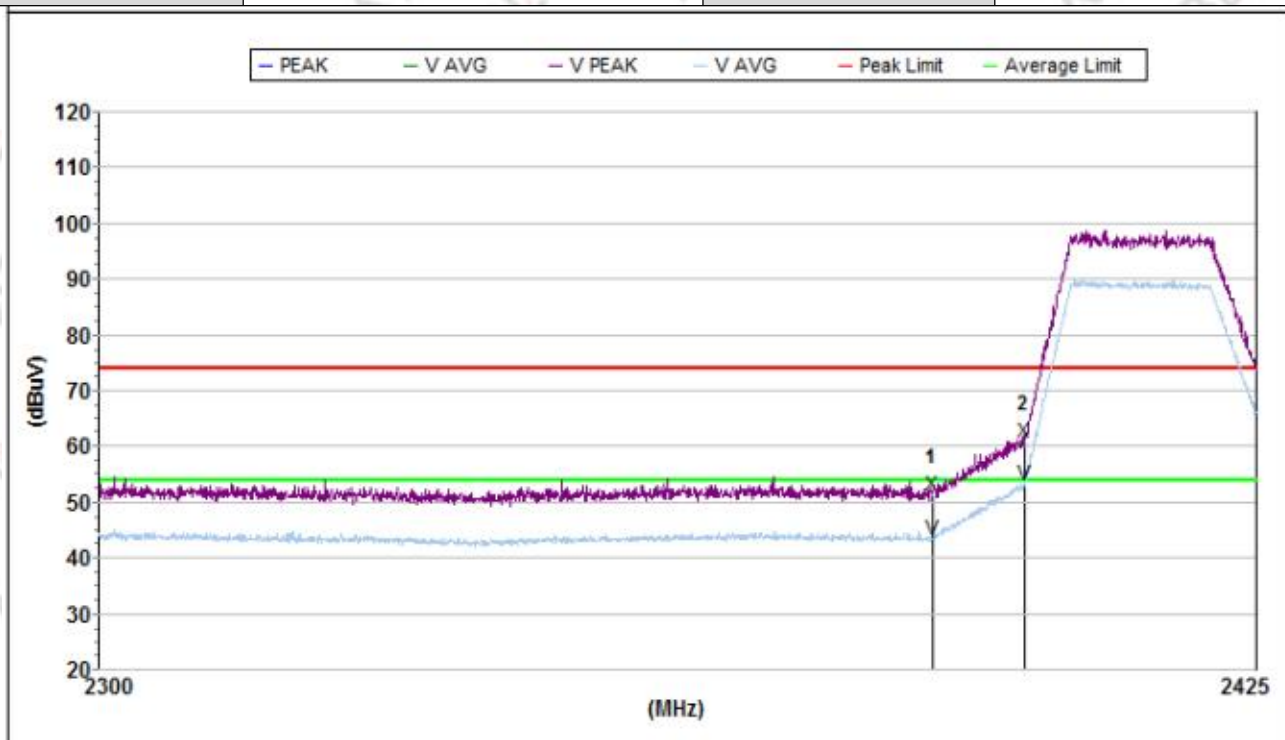
- 1.Only the worst 802.11n data is represented in the report.
- 2.Margin=Level-Limit=Reading+factor-Limit

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20_CH1 2412	Antenna Pol.	Horizontal



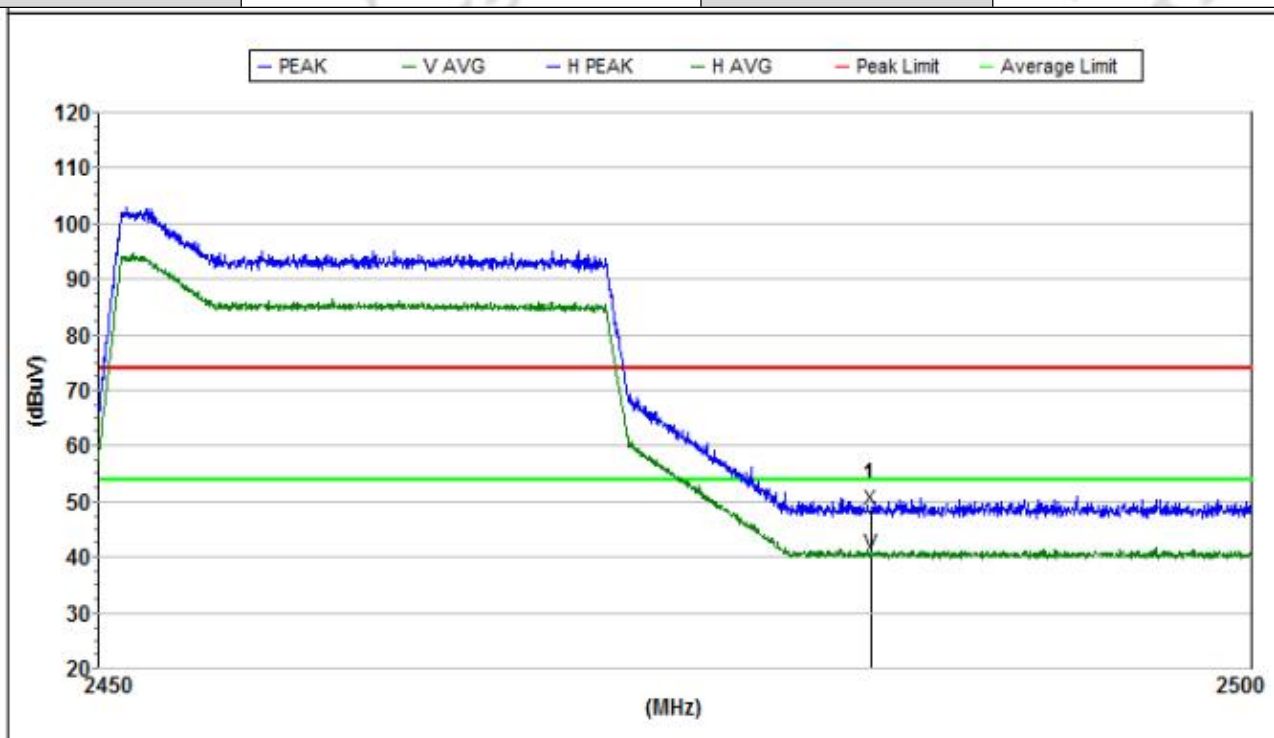
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2390.000	58.6	-10.7	47.9	74.0	26.1	H
2	2400.000	59.9	-0.9	59.0	74.0	15.0	H
Avg							
1	2390.000	50.9	-10.7	40.2	54.0	13.8	H
2	2400.000	50.8	-0.9	49.9	54.0	4.1	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20_CH1 2412	Antenna Pol.	Vertical



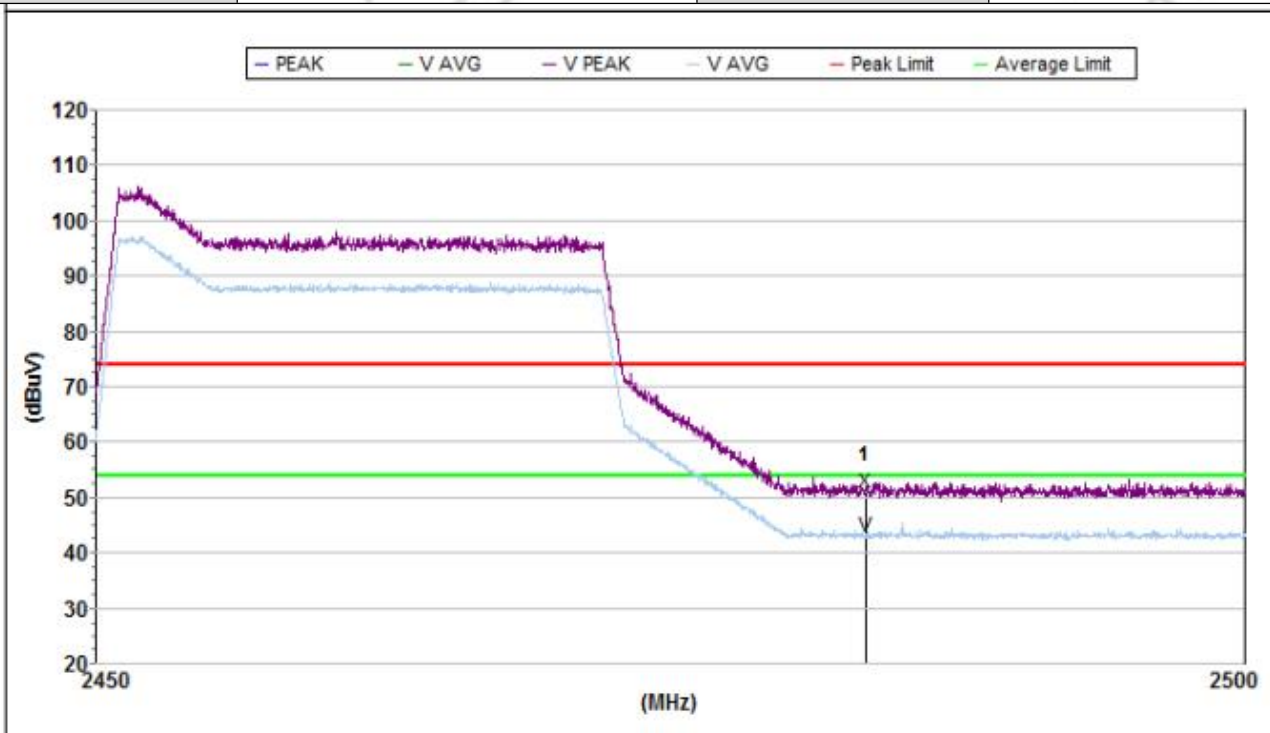
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2390.000	58.9	-7.8	51.1	74.0	22.9	V
2	2400.000	58.8	1.9	60.7	74.0	13.3	V
Avg							
1	2390.000	51.1	-7.8	43.3	54.0	10.7	V
2	2400.000	51.2	1.9	53.1	54.0	0.9	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20_CH11 2462	Antenna Pol.	Horizontal



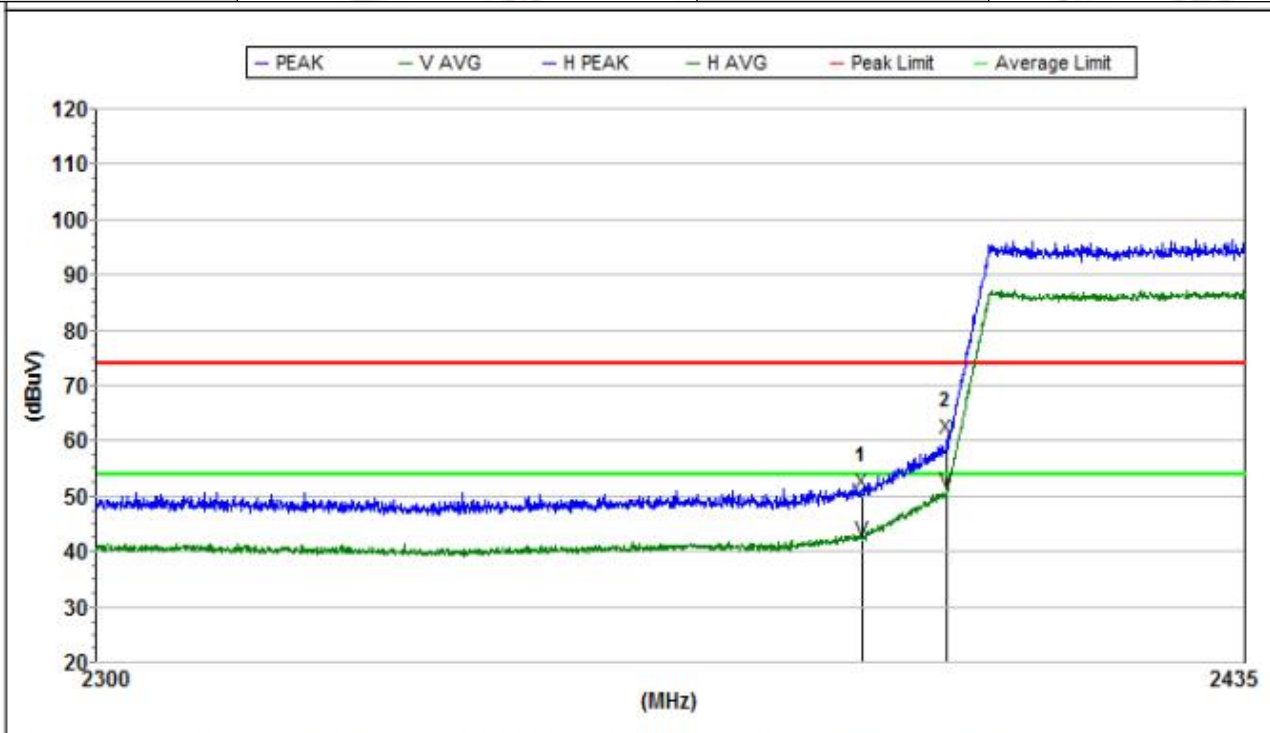
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2483.500	59.3	-10.8	48.5	74.0	25.5	H
Avg							
1	2483.500	51.4	-10.8	40.6	54.0	13.4	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20_CH11 2462	Antenna Pol.	Vertical



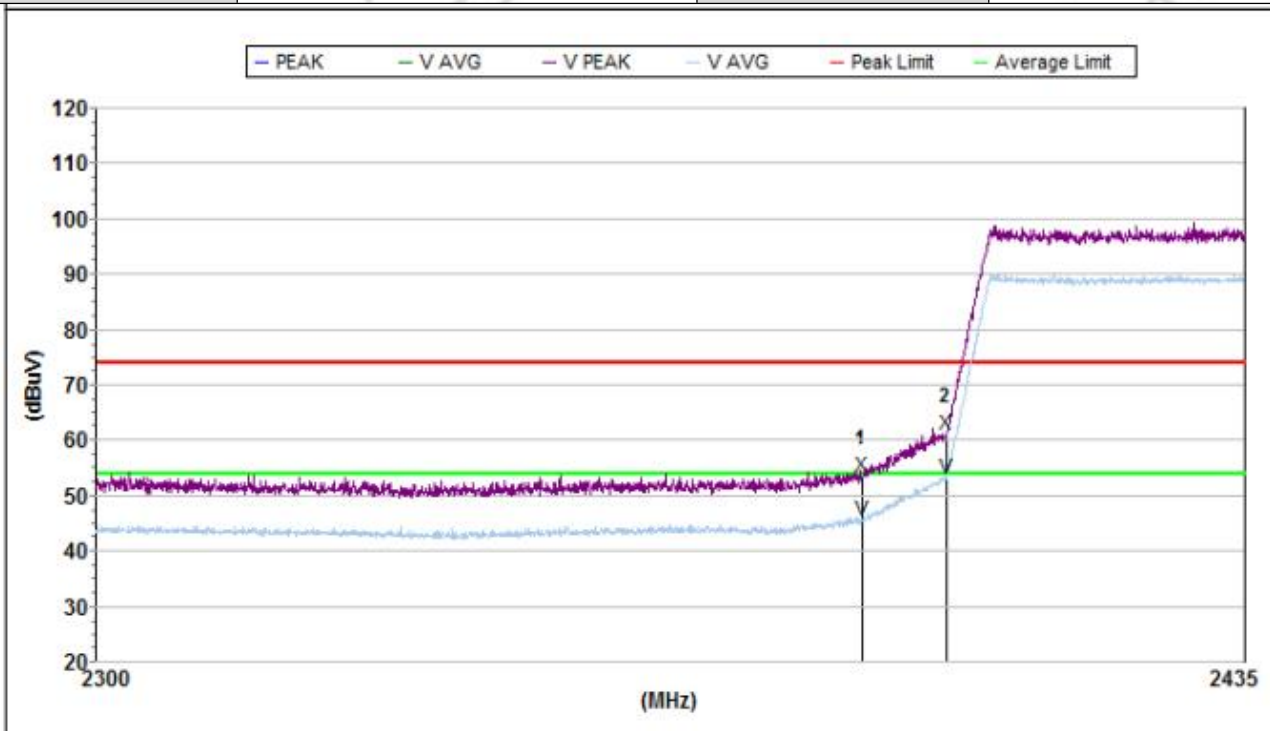
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2483.500	59.0	-8.2	50.8	74.0	23.2	V
Avg							
1	2483.500	51.3	-8.2	43.1	54.0	10.9	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40_CH3 2422	Antenna Pol.	Horizontal



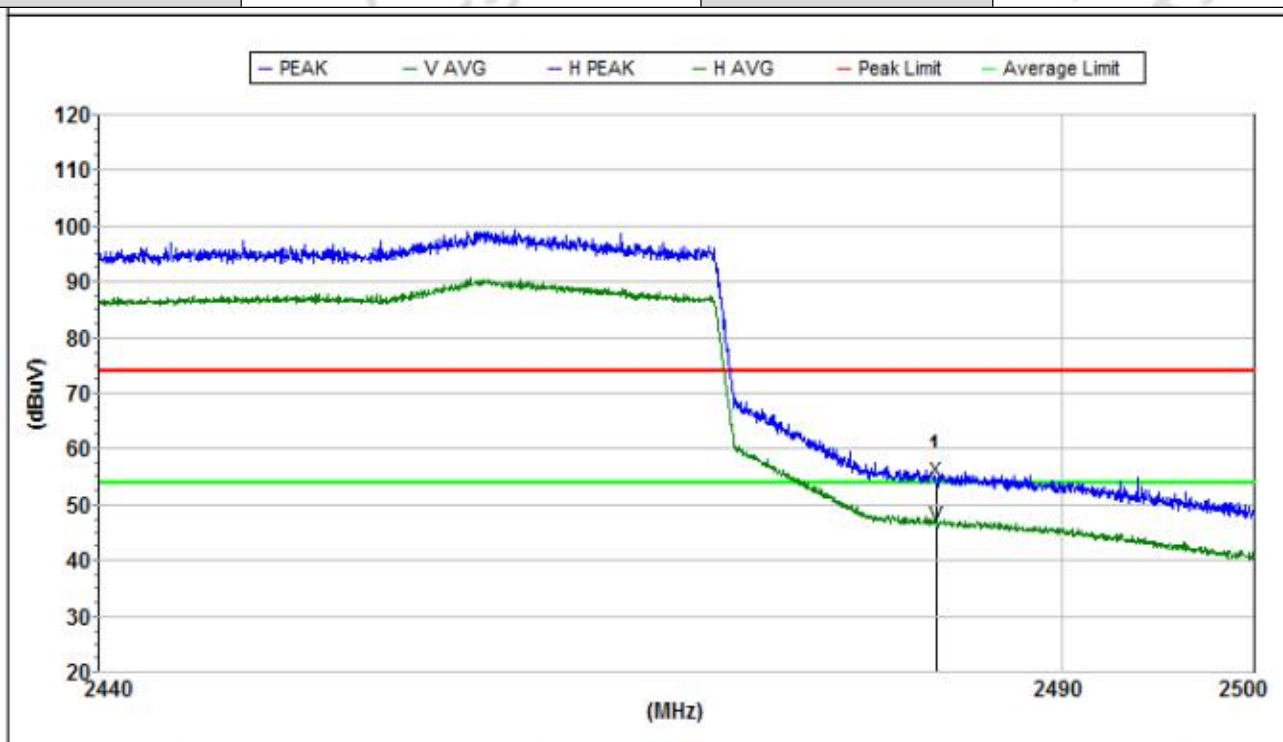
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2390.000	59.4	-8.7	50.7	74.0	23.3	H
2	2400.000	61.3	-0.7	60.6	74.0	13.4	H
Avg							
1	2390.000	50.9	-8.7	42.2	54.0	11.8	H
2	2400.000	51.5	-0.7	50.8	54.0	3.2	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40_CH3 2422	Antenna Pol.	Vertical



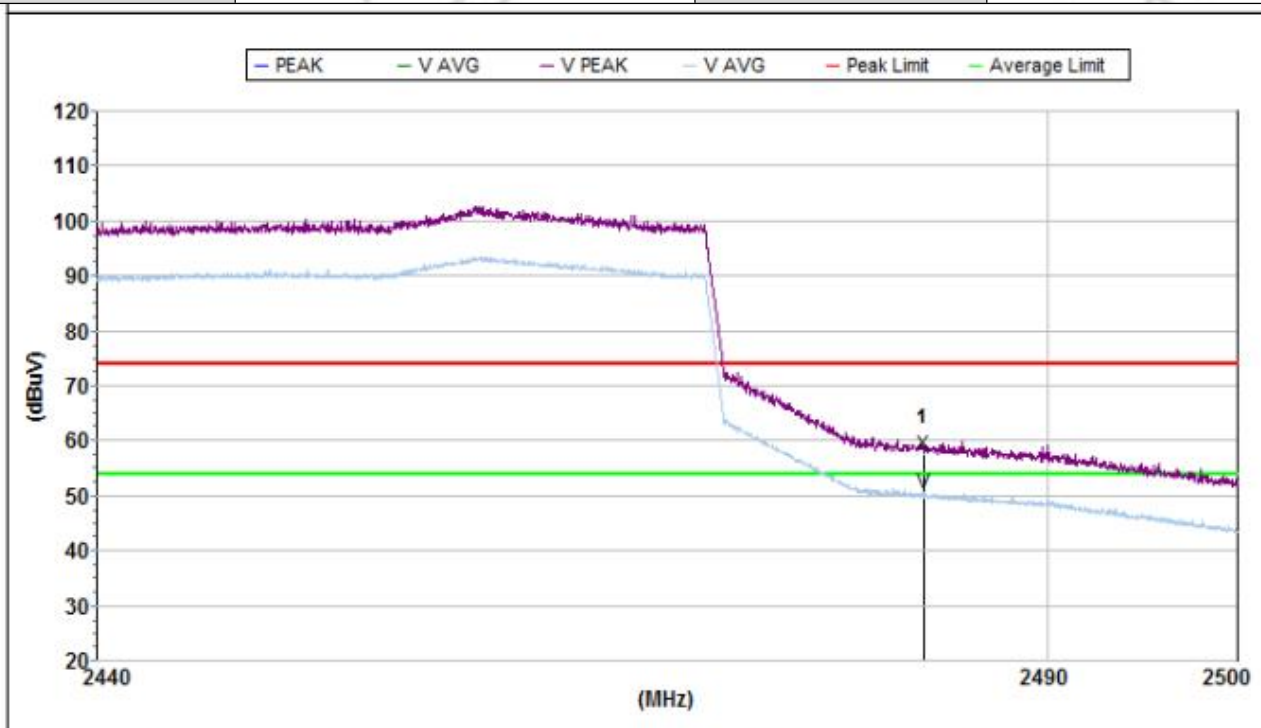
Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2390.000	59.5	-5.8	53.7	74.0	20.3	V
2	2400.000	59.0	2.1	61.1	74.0	12.9	V
Avg							
1	2390.000	51.3	-5.8	45.5	54.0	8.5	V
2	2400.000	51.1	2.1	53.2	54.0	0.8	V

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40_CH3 2452	Antenna Pol.	Horizontal



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2483.500	58.7	-4.5	54.2	74.0	19.8	H
Avg							
1	2483.500	50.7	-4.5	46.2	54.0	7.8	H

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n40_CH9 2452	Antenna Pol.	Vertical



Mk.	Freq.(MHz)	Reading(dBuV/m)	Factor(dB)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Pol.
Peak:							
1	2483.500	59.4	-1.8	57.6	74.0	16.4	V
Avg							
1	2483.500	52.3	-1.8	50.5	54.0	3.5	V

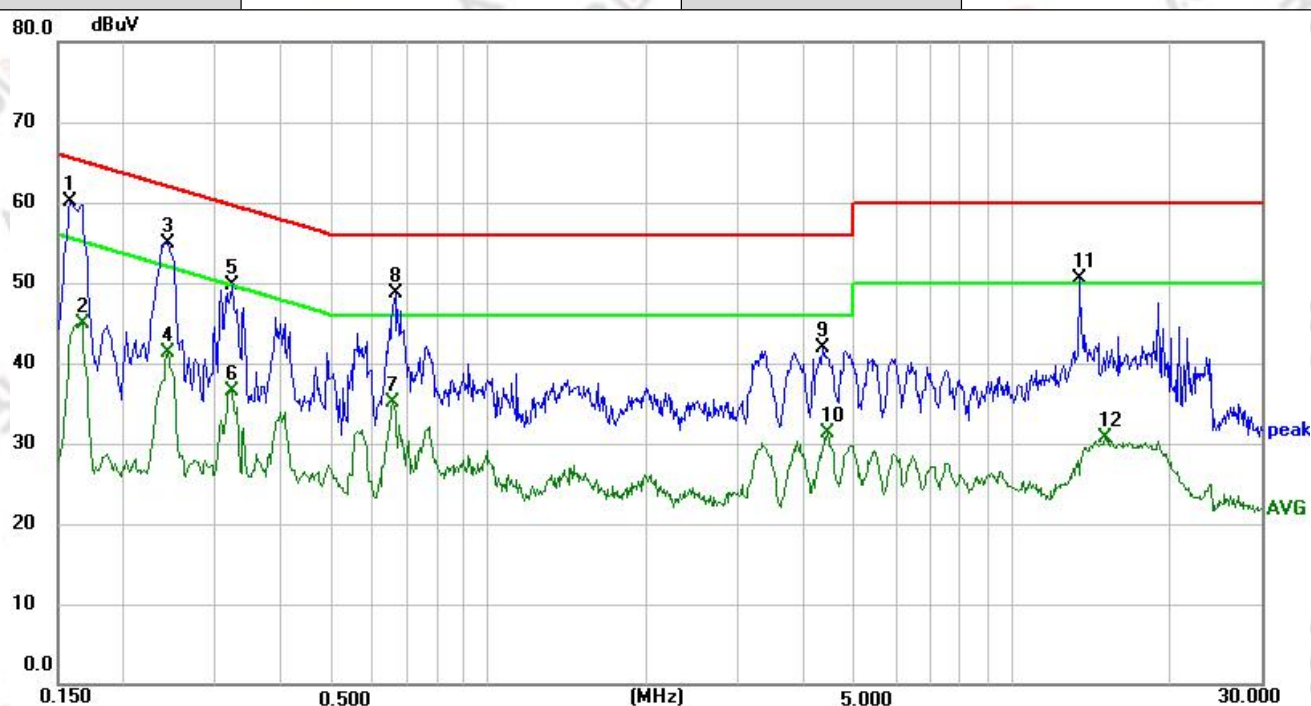
2.AC Power-Line Conducted Emission

Test Result

Note:

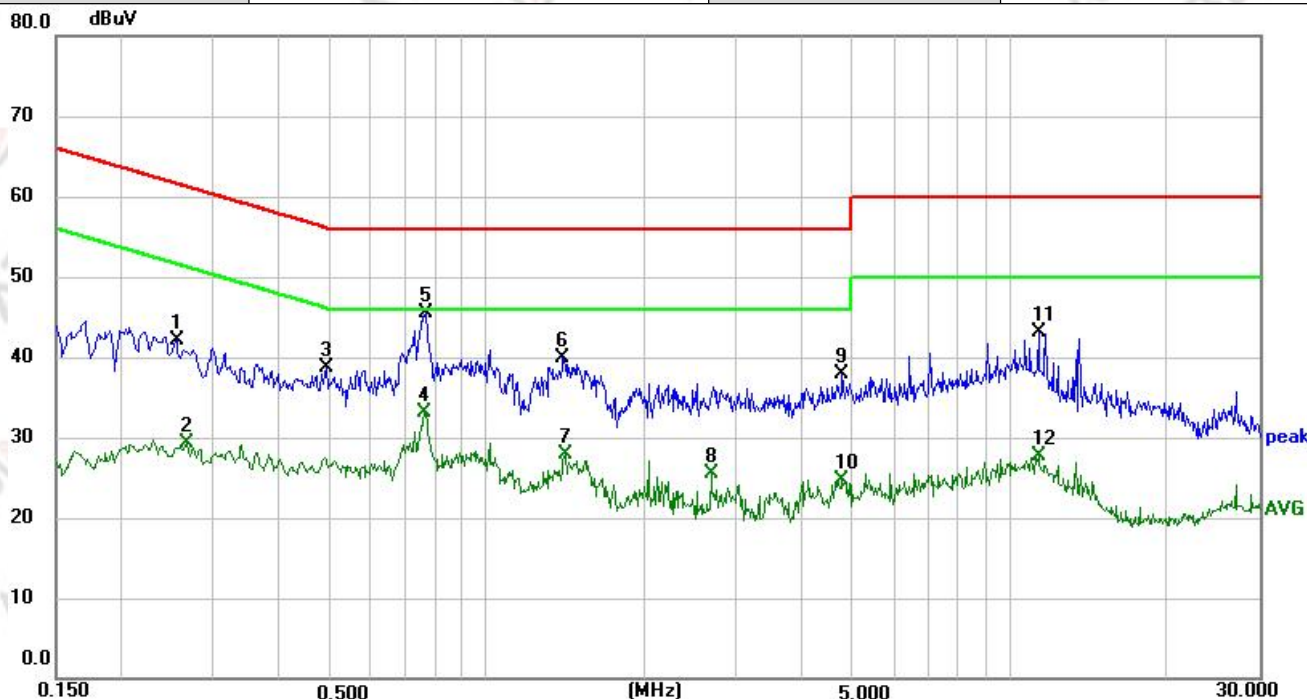
- 1.All modes have been tested, only worst mode(802.11n20-TX Channel 6) was recorded in the test report.
- 2.Emission Level = Reading Value + Correction Factor .
3. Correction Factor = Insertion loss + Cable loss.
4. The emission levels of other frequencies were less than 20dB margin against the limit.
5. Margin value = Emission level-Limit value.

EUT	Smart Phone	Model Name	ORICO-H1-15-680-12256-S V
Test Mode	802.11n20-TX Channel 6	Phase	L1



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1580	40.42	19.74	60.16	65.57	-5.41	peak	P	
2	0.1660	25.08	19.74	44.82	55.16	-10.34	AVG	P	
3	0.2420	35.26	19.73	54.99	62.03	-7.04	peak	P	
4	0.2420	21.63	19.73	41.36	52.03	-10.67	AVG	P	
5	0.3220	29.83	19.80	49.63	59.66	-10.03	peak	P	
6	0.3220	16.80	19.80	36.60	49.66	-13.06	AVG	P	
7	0.6540	15.14	19.93	35.07	46.00	-10.93	AVG	P	
8	0.6620	28.70	19.93	48.63	56.00	-7.37	peak	P	
9	4.3540	21.51	20.33	41.84	56.00	-14.16	peak	P	
10	4.4540	10.87	20.34	31.21	46.00	-14.79	AVG	P	
11	13.4380	28.91	21.59	50.50	60.00	-9.50	peak	P	
12	15.1100	8.60	22.07	30.67	50.00	-19.33	AVG	P	

EUT	Smart Phone	Model Name	Blade30 Pro
Test Mode	802.11n20-TX Channel 6	Phase	N



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2540	22.26	19.93	42.19	61.63	-19.44	peak	P	
2	0.2660	9.41	19.92	29.33	51.24	-21.91	AVG	P	
3	0.4940	19.19	19.56	38.75	56.10	-17.35	peak	P	
4	0.7620	13.42	19.75	33.17	46.00	-12.83	AVG	P	
5 *	0.7660	25.69	19.75	45.44	56.00	-10.56	peak	P	
6	1.4020	20.12	19.88	40.00	56.00	-16.00	peak	P	
7	1.4140	8.08	19.88	27.96	46.00	-18.04	AVG	P	
8	2.6860	5.38	20.08	25.46	46.00	-20.54	AVG	P	
9	4.7900	17.71	20.17	37.88	56.00	-18.12	peak	P	
10	4.7900	4.60	20.17	24.77	46.00	-21.23	AVG	P	
11	11.3180	22.08	21.00	43.08	60.00	-16.92	peak	P	
12	11.3180	6.77	21.00	27.77	50.00	-22.23	AVG	P	