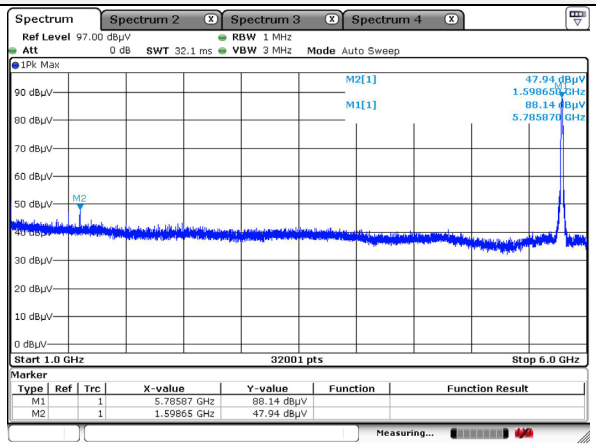
Mode: 802.11a_ANT 1
Distance of measurement: 3 meter
Channel: 157

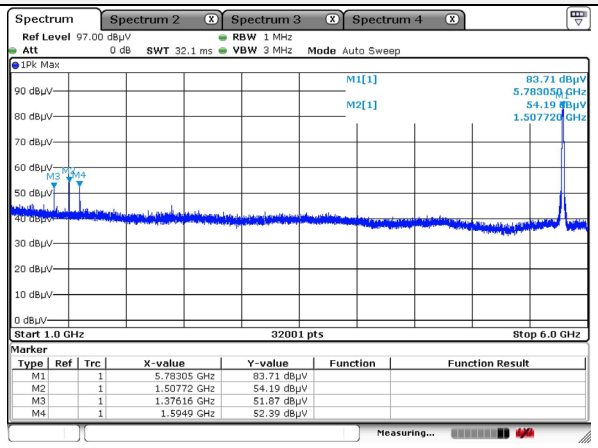
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 376.16	51.87	Peak	V	-7.17	-	44.70	74.00	29.30
1 507.72	54.19	Peak	V	-6.62	-	47.57	74.00	26.43
1 594.90	52.39	Peak	V	-6.07	-	46.32	74.00	27.68
1 598.65	47.94	Peak	H	-6.04	-	41.90	74.00	32.10
6 780.16	39.31	Peak	V	8.85	-	48.16	68.23	20.07
8 751.48	39.36	Peak	H	12.37	-	51.73	68.23	16.50

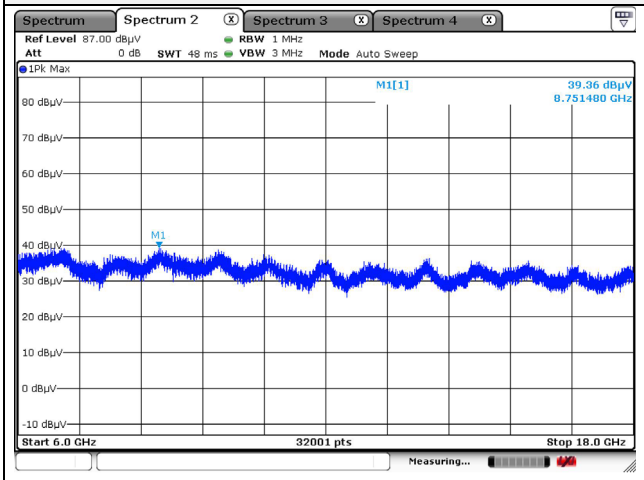
Horizontal // Peak for 1 ㎓ to 6 ㎓



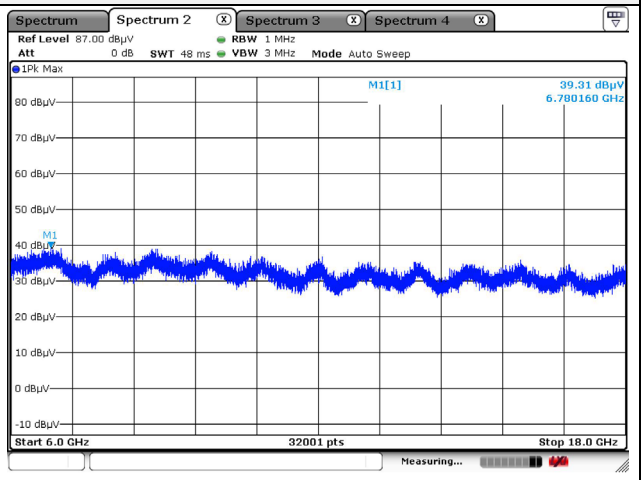
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓



Note.
1. Average test would be performed if the peak result were greater than the average limit.

Mode: 802.11a_ANT 1
Distance of measurement: 3 meter
Channel: 165

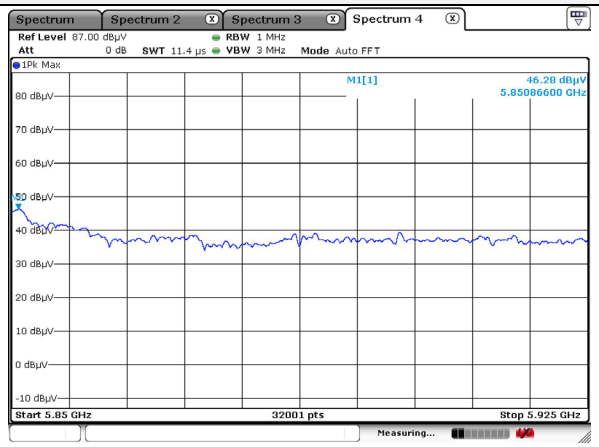
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 592.09	48.01	Peak	V	-6.08	-	41.93	74.00	32.07
1 943.17	44.57	Peak	H	-2.55	-	42.02	68.23	26.21
6 567.54	40.05	Peak	V	8.55	-	48.60	68.23	19.63
8 768.73	39.18	Peak	H	12.30	-	51.48	68.23	16.75

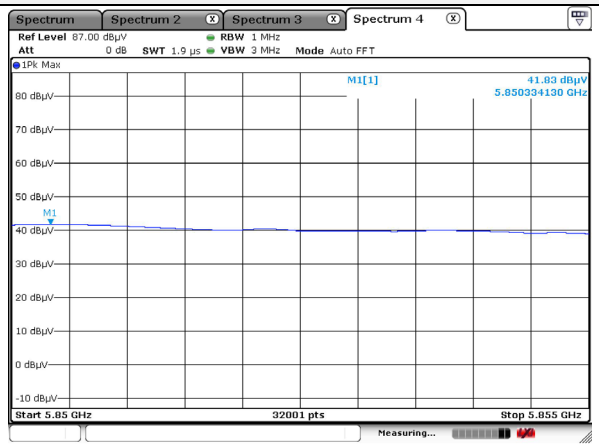
- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
5 850.33	41.83	Peak	V	8.53	-	50.36	121.48	71.12
5 850.87	46.28	Peak	H	8.53	-	54.81	120.25	65.44

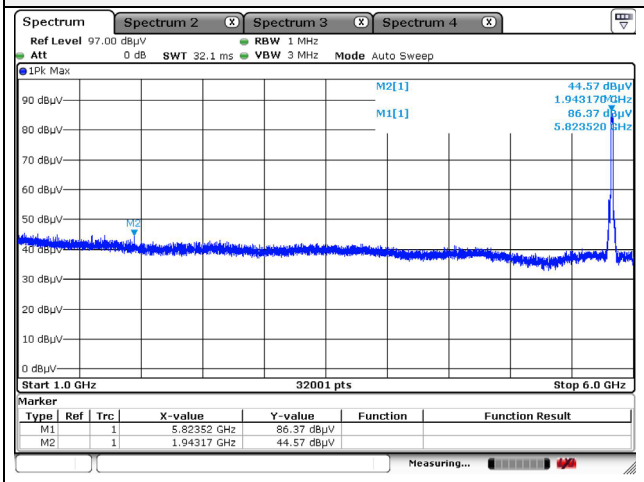
Band edge // Horizontal // Peak



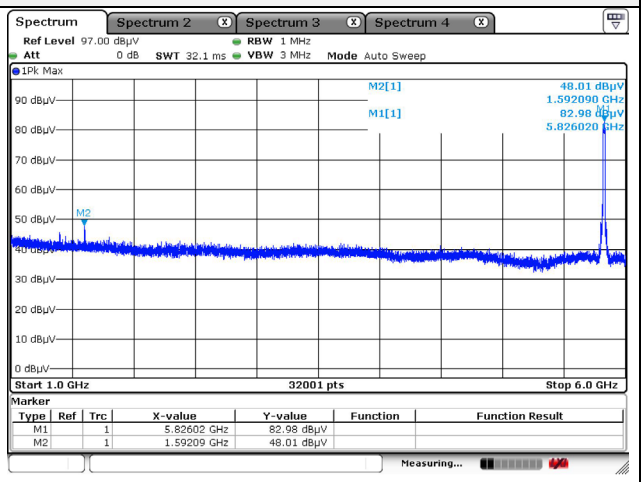
Band edge // Vertical // Peak



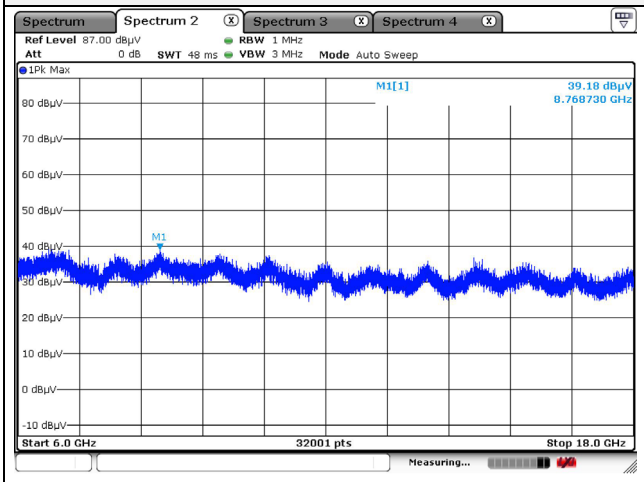
Horizontal // Pea for 1 ㎓ to 6 ㎓



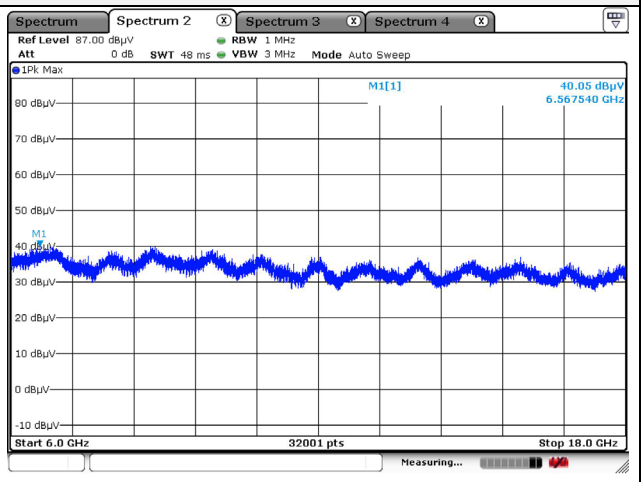
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓



Note.
1. Average test would be performed if the peak result were greater than the average limit.

Mode: 802.11a_ANT 2
Distance of measurement: 3 meter
Channel: 149

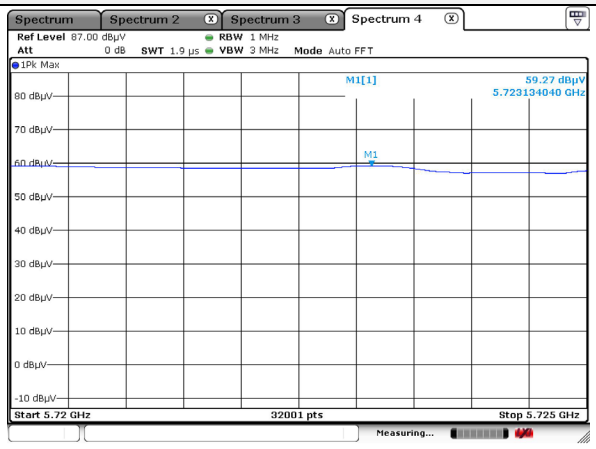
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 152.89	48.69	Peak	H	-8.96	-	39.73	74.00	34.27
1 401.00	50.27	Peak	V	-6.96	-	43.31	74.00	30.69
1 472.56	49.04	Peak	H	-6.75	-	42.29	74.00	31.71
2 411.13	47.89	Peak	V	-1.84	-	46.05	68.23	22.18
6 856.66	40.27	Peak	H	9.11	-	49.38	68.23	18.85
6 870.16	41.06	Peak	V	9.16	-	50.22	68.23	18.01

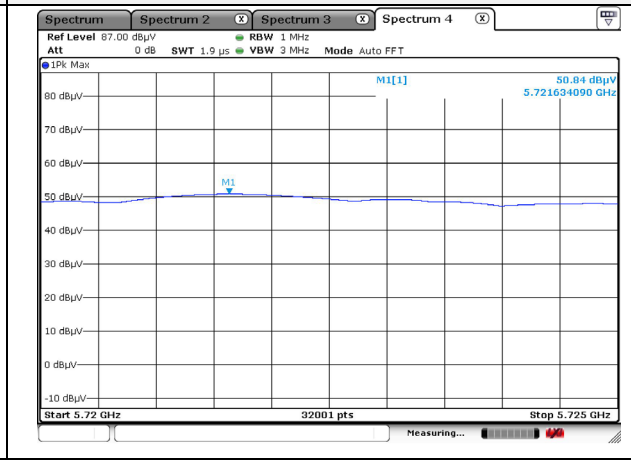
- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
5 721.63	50.84	Peak	V	7.92	-	58.76	114.55	55.79
5 723.13	59.27	Peak	H	7.93	-	67.20	117.97	50.77

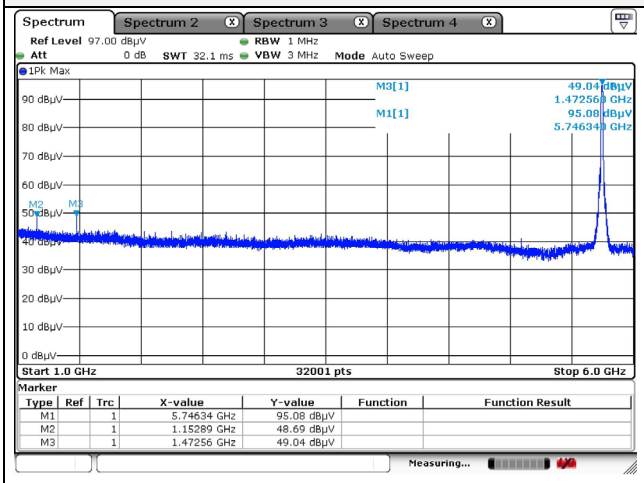
Band edge // Horizontal // Peak



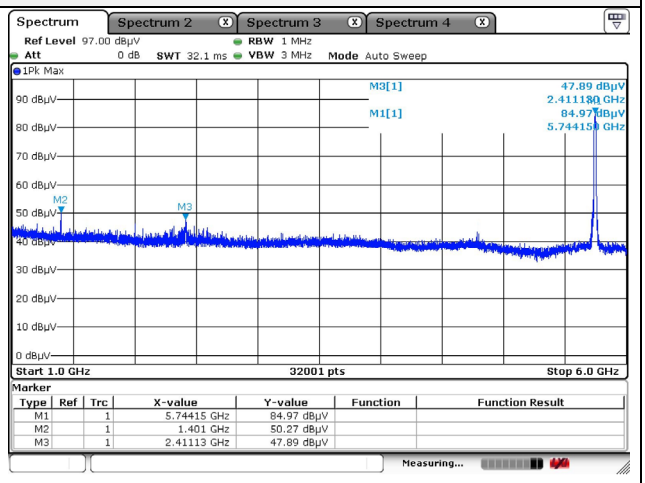
Band edge // Vertical // Peak



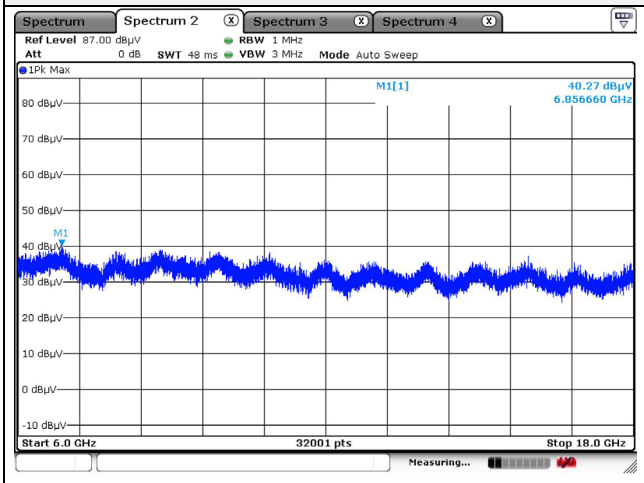
Horizontal // Peak for 1 ㎓ to 6 ㎓



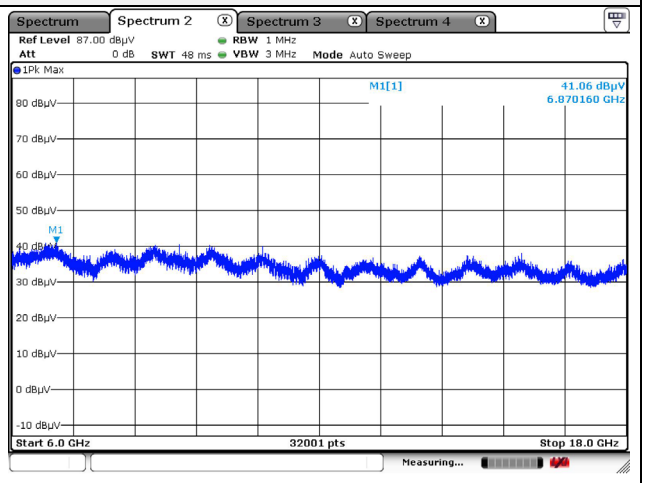
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓



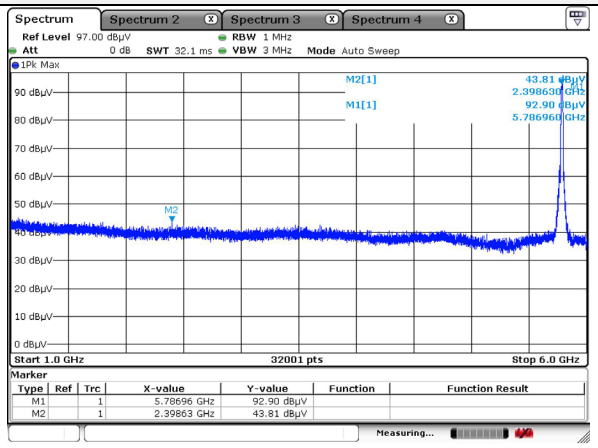
Note.
1. Average test would be performed if the peak result were greater than the average limit.

Mode: 802.11a_ANT 2
Distance of measurement: 3 meter
Channel: 157

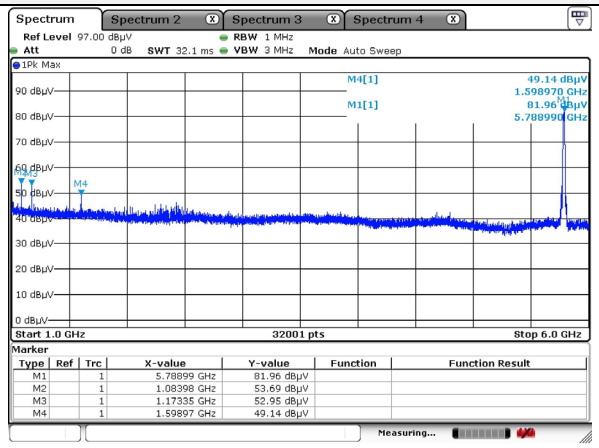
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 083.98	53.69	Peak	V	-9.42	-	44.27	74.00	29.73
1 173.35	52.95	Peak	V	-8.82	-	44.13	74.00	29.87
1 598.97	49.14	Peak	V	-6.04	-	43.10	74.00	30.90
2 398.63	43.81	Peak	H	-1.86	-	41.95	68.23	26.28
6 698.04	39.60	Peak	H	8.74	-	48.34	68.23	19.89
8 762.73	39.96	Peak	V	12.33	-	52.29	68.23	15.94

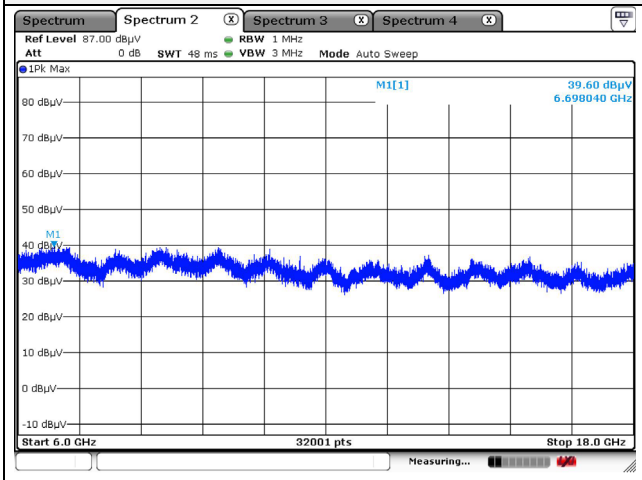
Horizontal // Peak for 1 ㎓ to 6 ㎓



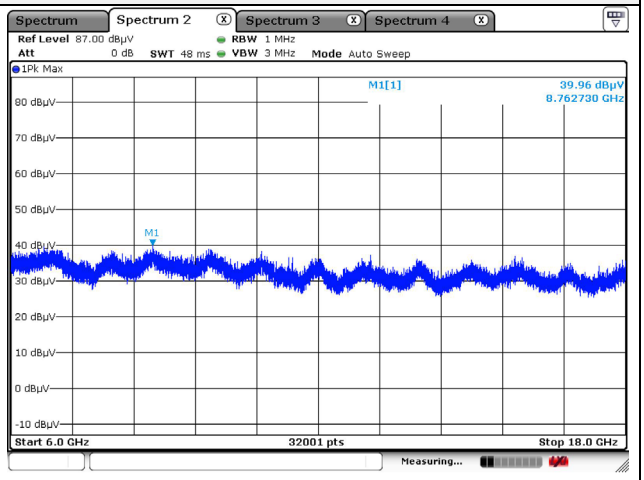
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



Vertical // Peak for 6 ㎓ to 18 ㎓



Note.
1. Average test would be performed if the peak result were greater than the average limit.

Mode: 802.11a_ANT 2
Distance of measurement: 3 meter
Channel: 165

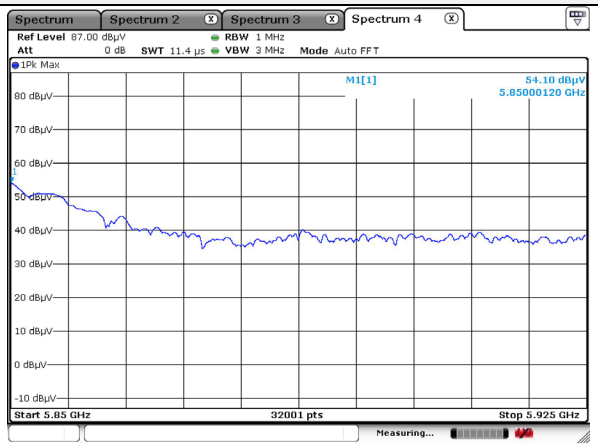
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 200.23	46.06	Peak	V	-8.64	-	37.42	74.00	36.58
1 558.65	49.79	Peak	H	-6.30	-	43.49	74.00	30.51
2 212.85	49.29	Peak	V	-1.89	-	47.40	74.00	26.60
2 243.01	45.98	Peak	V	-1.89	-	44.09	74.00	29.91
6 932.03	40.46	Peak	V	9.42	-	49.88	74.00	24.12
8 784.48	40.34	Peak	H	12.25	-	52.59	74.00	21.41

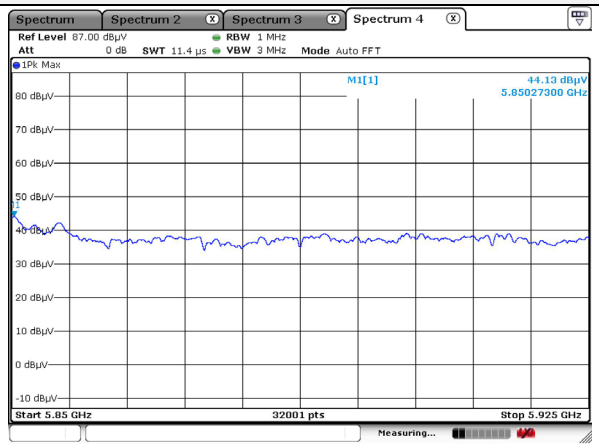
- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
5 850.27	44.13	Peak	V	8.53	-	52.66	122.20	69.54
5 850.00	54.10	Peak	H	8.53	-	62.63	120.25	57.62

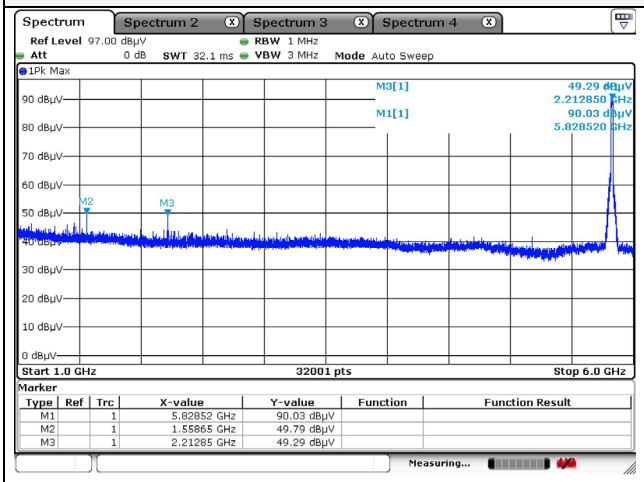
Band edge // Horizontal // Peak



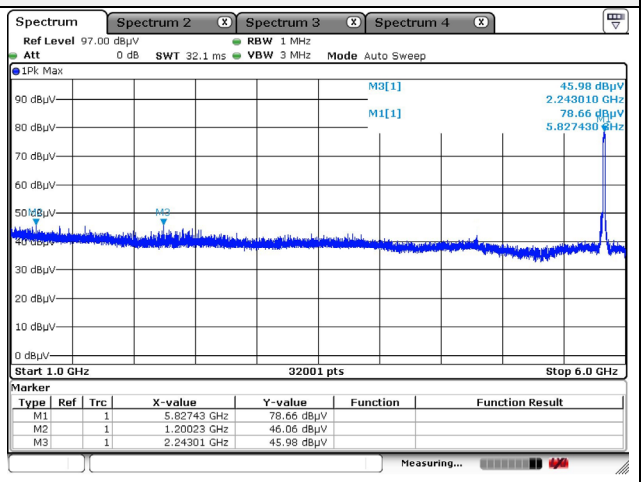
Band edge // Vertical // Peak



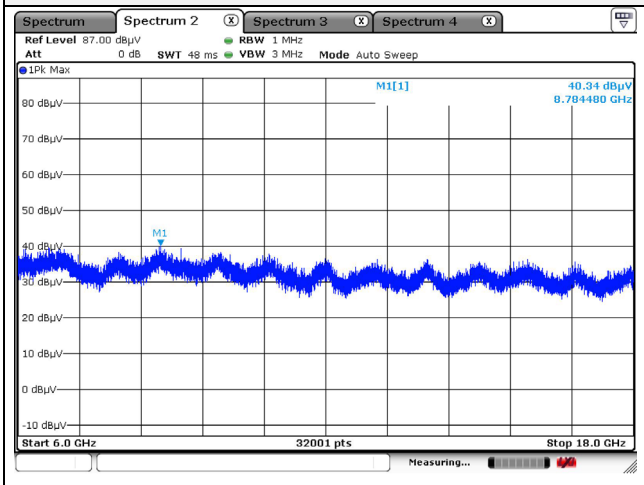
Horizontal // Peak for 1 ㎓ to 6 ㎓



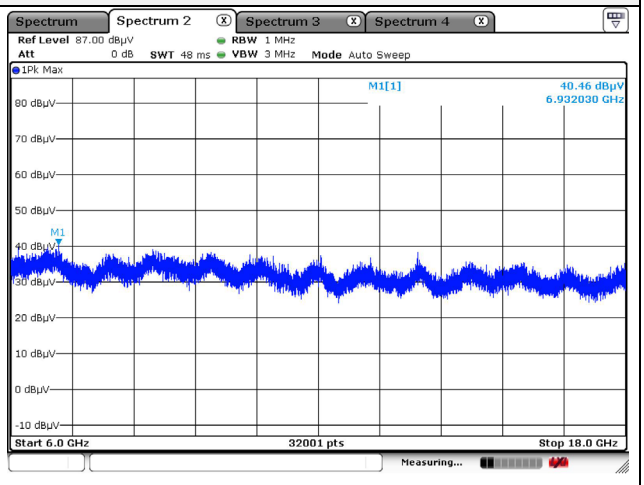
Vertical // Peak for 1 ㎓ to 6 ㎓



Horizontal // Peak for 6 ㎓ to 18 ㎓



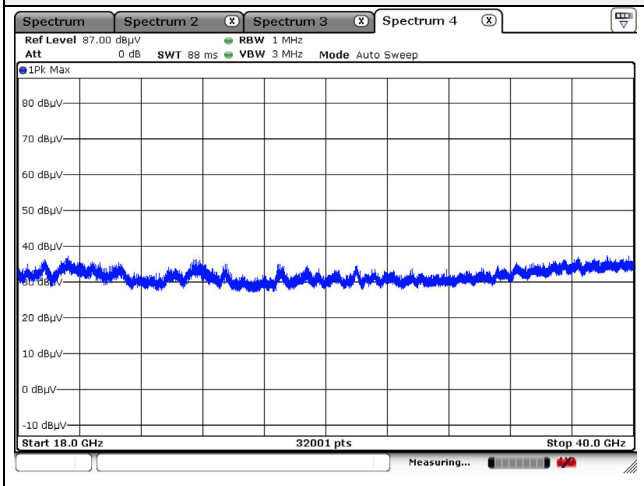
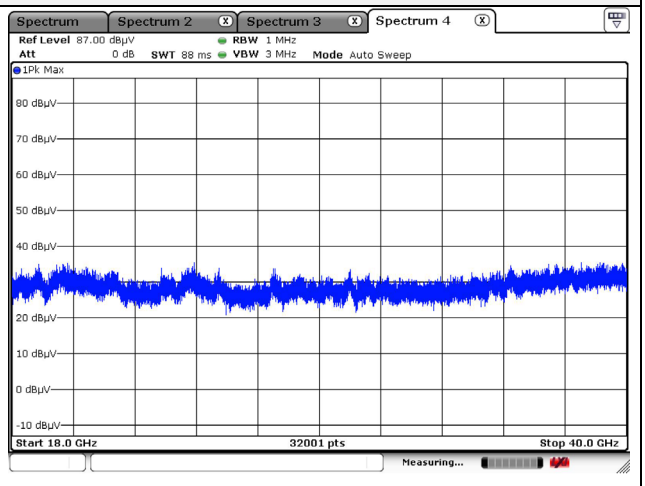
Vertical // Peak for 6 ㎓ to 18 ㎓



Note.
1. Average test would be performed if the peak result were greater than the average limit.

Test results (18 ㎓ to 40 ㎓)

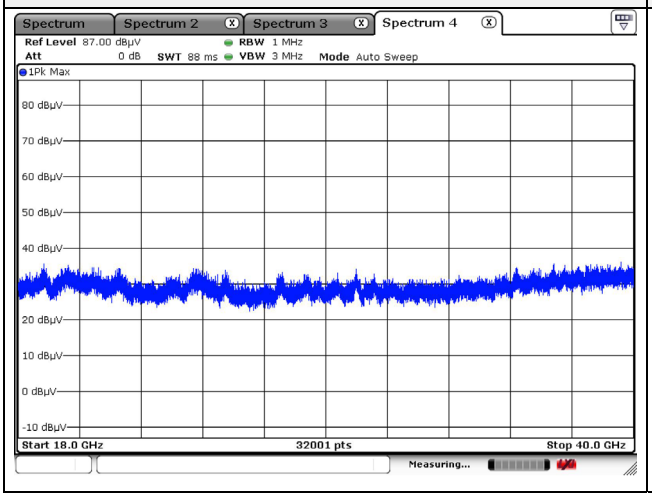
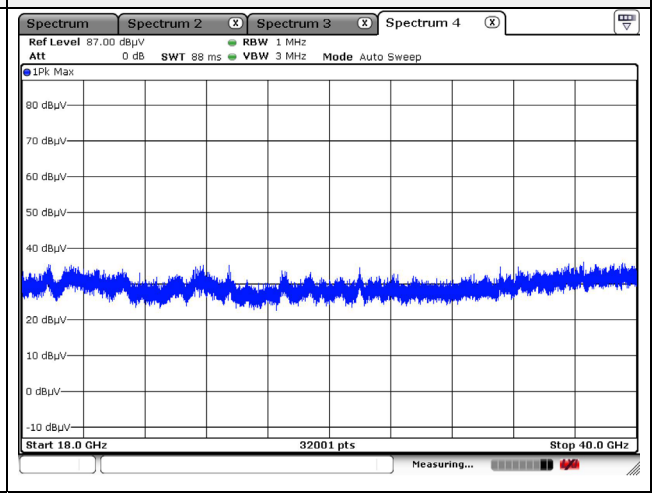
Mode:	802.11a_ANT 1
Channel:	100 (Worst Case)
Distance of measurement:	3 meter

Horizontal // 18 GHz ~ 40 GHz	Vertical // 18 GHz ~ 40 GHz
	

Note.

1. No spurious emission were detected above 18 ㎓.

Mode:	802.11a_ANT 2
Channel:	100 (Worst Case)
Distance of measurement:	3 meter

Horizontal // 18 GHz ~ 40 GHz	Vertical // 18 GHz ~ 40 GHz
	

Note.

1. No spurious emission were detected above 18 ㎓.

3.3. AC conducted emissions

Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 ㎑ to 30 ㎒, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

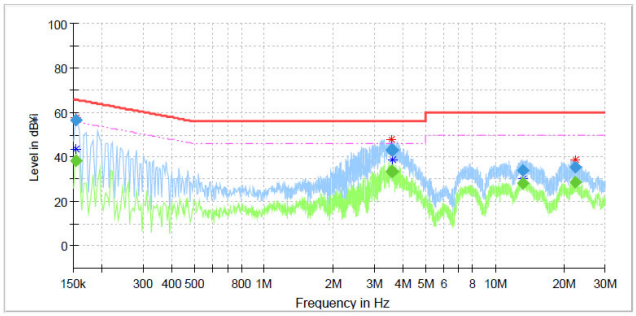
Frequency of Emission (㎒)	Conducted limit (dB㎶/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Test results

Mode: 802.11a_ANT 1

Channel 100 (Worst Case)

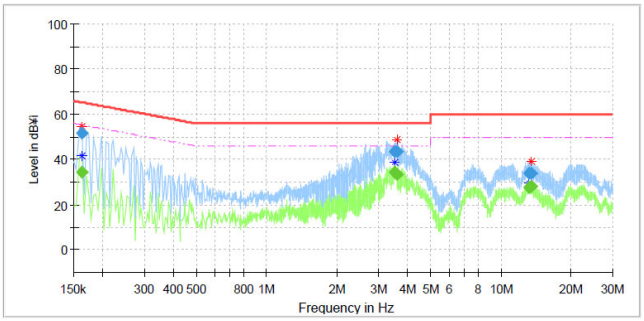
Hot Line



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	---	38.27	55.78	17.51	1000.0	9.000	L1	19.6
0.154000	56.77	---	65.78	9.01	1000.0	9.000	L1	19.6
3.582000	---	33.37	46.00	12.63	1000.0	9.000	L1	20.2
3.582000	43.27	---	56.00	12.73	1000.0	9.000	L1	20.2
3.594000	---	33.22	46.00	12.78	1000.0	9.000	L1	20.2
3.594000	42.97	---	56.00	13.03	1000.0	9.000	L1	20.2
13.222000	---	28.00	50.00	22.00	1000.0	9.000	L1	20.5
13.222000	34.10	---	60.00	25.90	1000.0	9.000	L1	20.5
22.350000	---	28.40	50.00	21.60	1000.0	9.000	L1	21.0
22.350000	35.38	---	60.00	24.62	1000.0	9.000	L1	21.0

Neutral Line



Final_Result

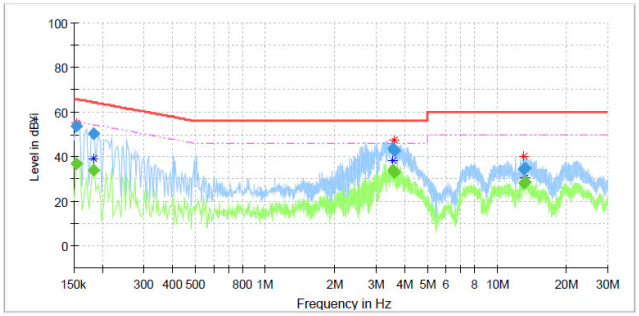
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.162000	---	34.26	55.36	21.10	1000.0	9.000	N	19.5
0.162000	51.74	---	65.36	13.62	1000.0	9.000	N	19.5
3.530000	---	34.40	46.00	11.60	1000.0	9.000	N	20.2
3.530000	43.65	---	56.00	12.35	1000.0	9.000	N	20.2
3.614000	---	33.57	46.00	12.43	1000.0	9.000	N	20.2
3.614000	43.54	---	56.00	12.46	1000.0	9.000	N	20.2
13.218000	---	27.70	50.00	22.30	1000.0	9.000	N	20.5
13.218000	33.83	---	60.00	26.17	1000.0	9.000	N	20.5
13.566000	---	27.96	50.00	22.04	1000.0	9.000	N	20.5
13.566000	34.08	---	60.00	25.92	1000.0	9.000	N	20.5

Test results

Mode: 802.11a_ANT 2

Channel 100 (Worst Case)

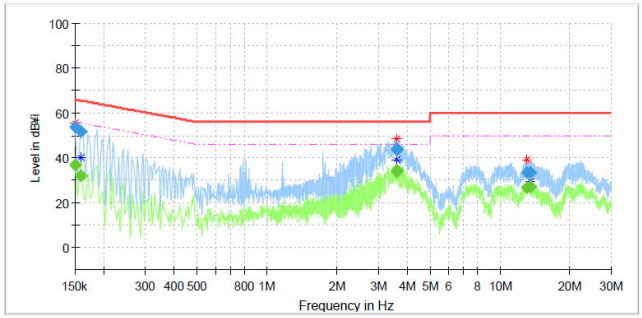
Hot Line



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154000	---	36.81	55.78	18.97	1000.0	9.000	L1	19.6
0.154000	53.62	---	65.78	12.16	1000.0	9.000	L1	19.6
0.182000	---	33.91	54.39	20.48	1000.0	9.000	L1	19.6
0.182000	50.30	---	64.39	14.09	1000.0	9.000	L1	19.6
3.574000	---	34.08	46.00	11.92	1000.0	9.000	L1	20.2
3.574000	43.44	---	56.00	12.56	1000.0	9.000	L1	20.2
3.622000	---	32.92	46.00	13.08	1000.0	9.000	L1	20.2
3.622000	42.64	---	56.00	13.36	1000.0	9.000	L1	20.2
13.094000	---	28.06	50.00	21.94	1000.0	9.000	L1	20.5
13.094000	34.26	---	60.00	25.74	1000.0	9.000	L1	20.5
13.186000	---	28.40	50.00	21.60	1000.0	9.000	L1	20.5
13.186000	34.63	---	60.00	25.37	1000.0	9.000	L1	20.5

Neutral Line



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	36.85	56.00	19.15	1000.0	9.000	N	19.5
0.150000	53.90	---	66.00	12.10	1000.0	9.000	N	19.5
0.158000	---	31.80	55.57	23.77	1000.0	9.000	N	19.5
0.158000	51.86	---	65.57	13.71	1000.0	9.000	N	19.5
3.590000	---	34.33	46.00	11.67	1000.0	9.000	N	20.2
3.590000	43.90	---	56.00	12.10	1000.0	9.000	N	20.2
3.602000	---	33.71	46.00	12.29	1000.0	9.000	N	20.2
3.602000	43.57	---	56.00	12.43	1000.0	9.000	N	20.2
13.006000	---	26.65	50.00	23.35	1000.0	9.000	N	20.5
13.006000	33.24	---	60.00	26.76	1000.0	9.000	N	20.5
13.514000	---	27.39	50.00	22.61	1000.0	9.000	N	20.5
13.514000	33.53	---	60.00	26.47	1000.0	9.000	N	20.5

Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum Analyzer	R&S	FSV40	101725	1 year	2023.06.16
Spectrum Analyzer	R&S	FSV40N	102194	1 year	2023.08.11
ATTENUATOR	KEYSIGHT	8493C	82506	1 year	2024.01.17
Power Meter	Anritsu	ML2495A	1438001	1 year	2024.01.13
Pulse Power Sensor	Anritsu	MA2411B	1339205	1 year	2024.01.13
DC POWER SUPPLY	AGILENT	6632B	MY43004130	1 year	2023.06.17
EMI Test Receiver	R&S	ESU26	100552	1 year	2023.08.01
LISN	R&S	ENV216	101787	1 year	2023.11.10
LISN	R&S	ESH2-Z5	100450	1 year	2023.11.10
EMI TEST RECEIVER	R&S	ERS3	101783	1 year	2023.11.11
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2023.04.27
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2024.01.14
BAND REJECT FILTER	MICRO-TRONICS	BRM50716	G199	1 year	2024.01.11
Attenuator	HUBER+SUHNER	6806.17.A	-	1 year	2023.04.01
Loop Antenna	Schwarzbeck	FMZB1513	1513-257	2 years	2023.03.18
Horn Antenna	A.H	SAS-571	414	1 year	2024.01.16
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2024.01.16
TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	714	2 years	2024.04.19
Amplifier	SONOMA INSTRUMENT	310N	186549	1 year	2023.04.21
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2023.06.02

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LG15N54	504NZJV027828
Jig board	-	-	-