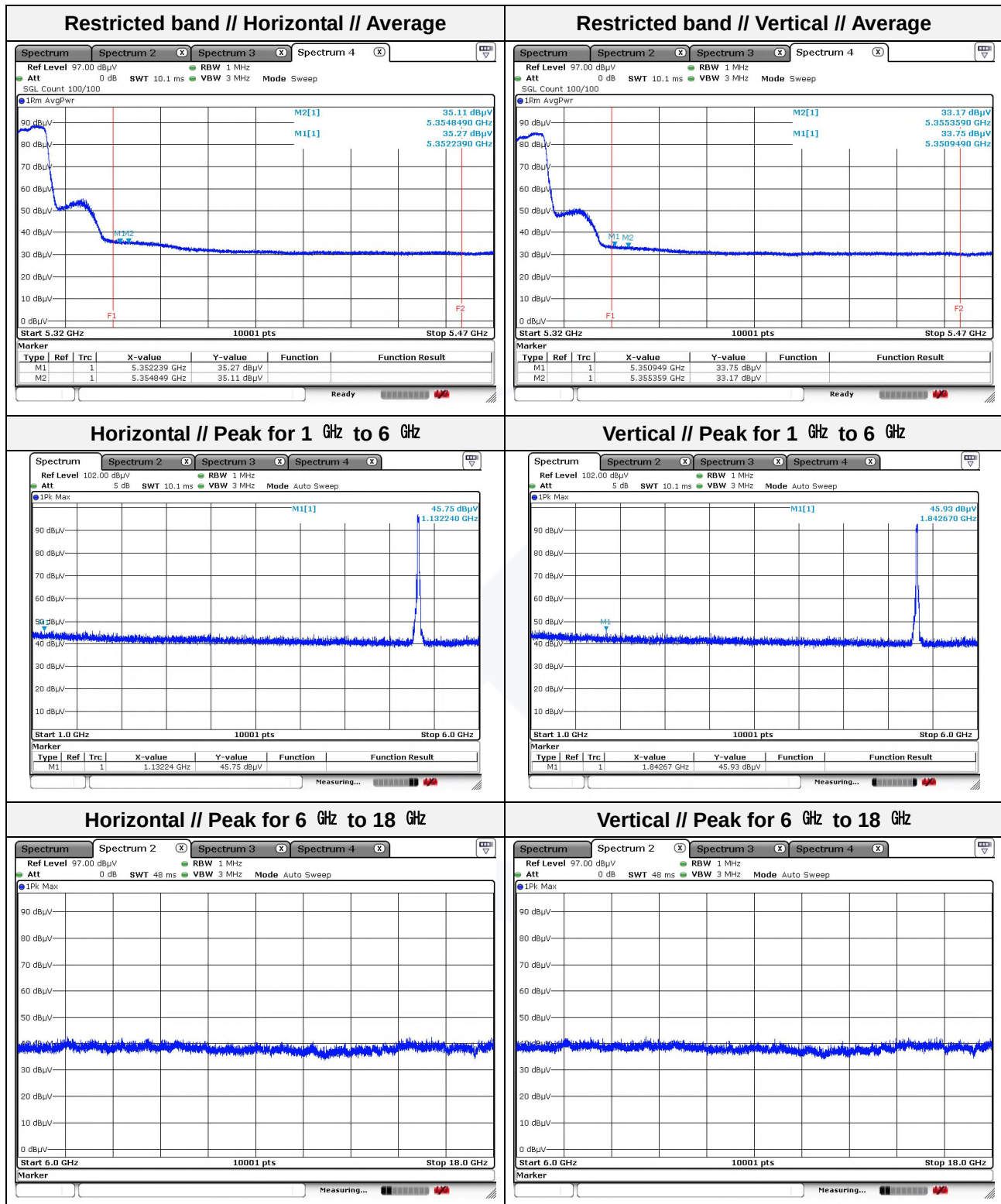




Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



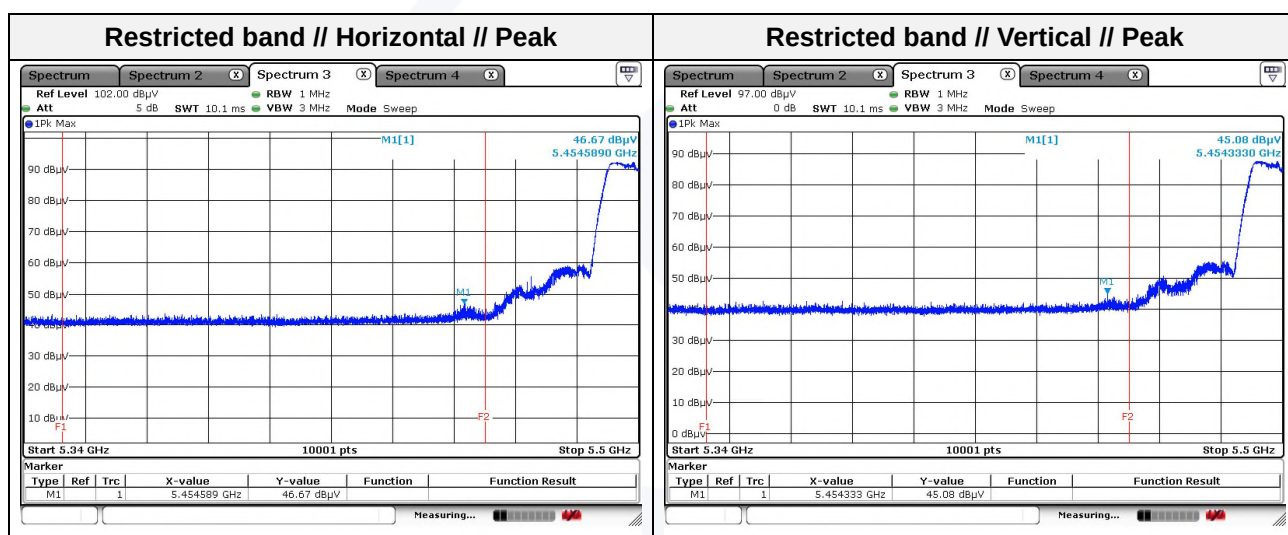
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-2C / 100

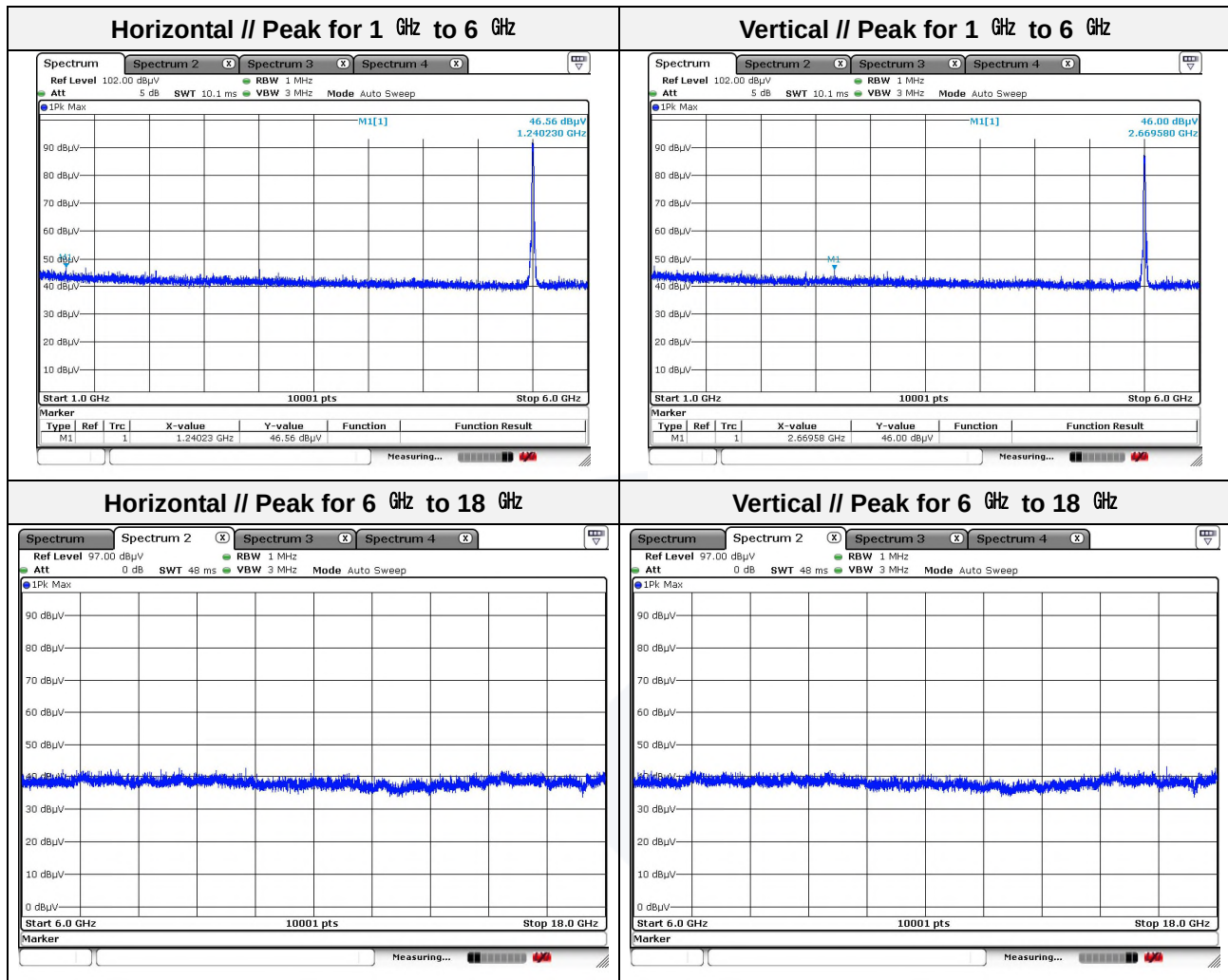
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 240.23	46.56	Peak	H	-7.42	-	39.14	74.00	34.86
2 669.58	46.00	Peak	V	0.20	-	46.20	74.00	27.80

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 454.33	45.08	Peak	V	7.32	-	52.40	74.00	21.60
5 454.59	46.67	Peak	H	7.32	-	53.99	74.00	20.01





Note.

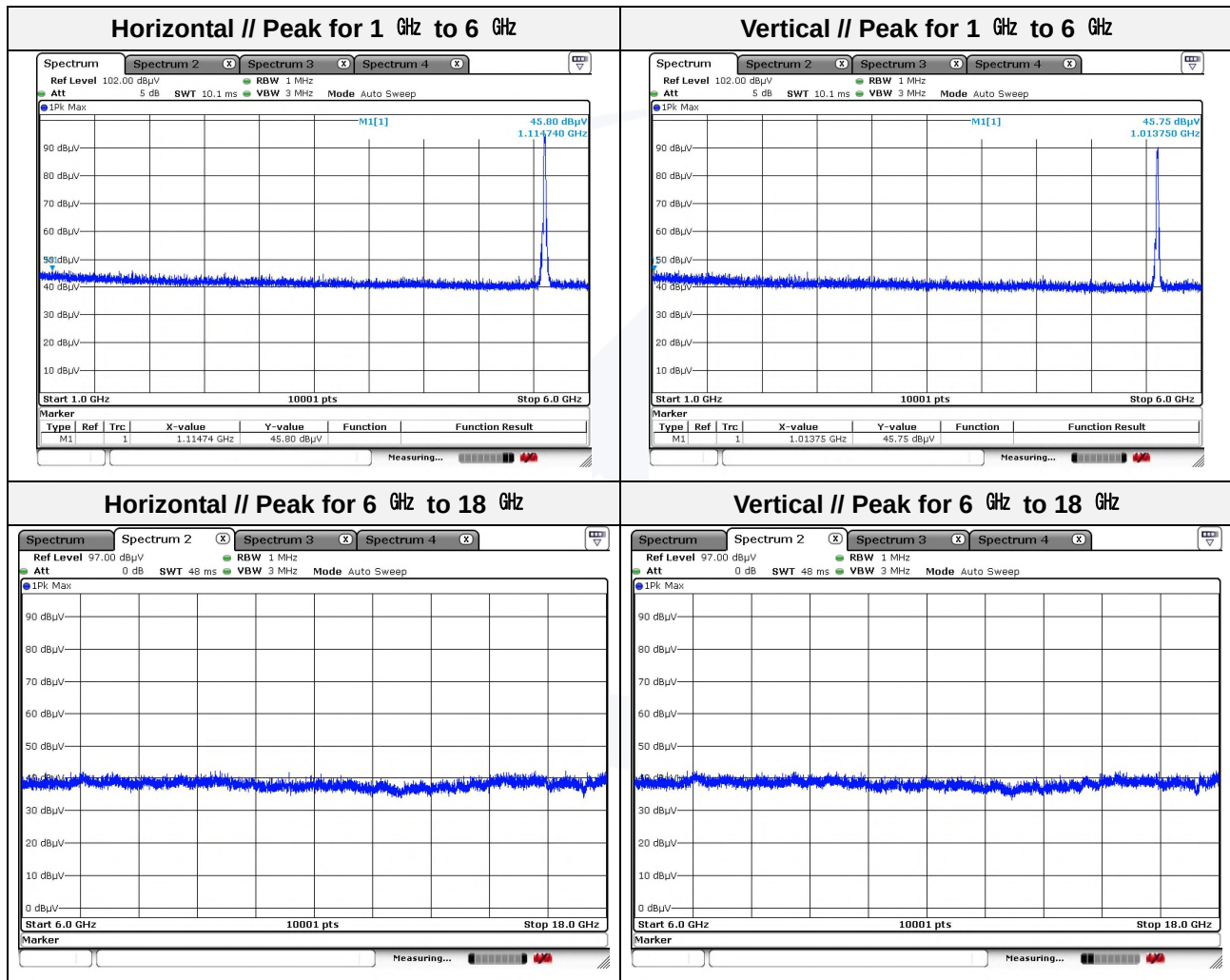
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-2C / 120

- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 013.75	45.75	Peak	V	-8.48	-	37.27	74.00	36.73
1 114.74	45.80	Peak	H	-8.00	-	37.80	74.00	36.20



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



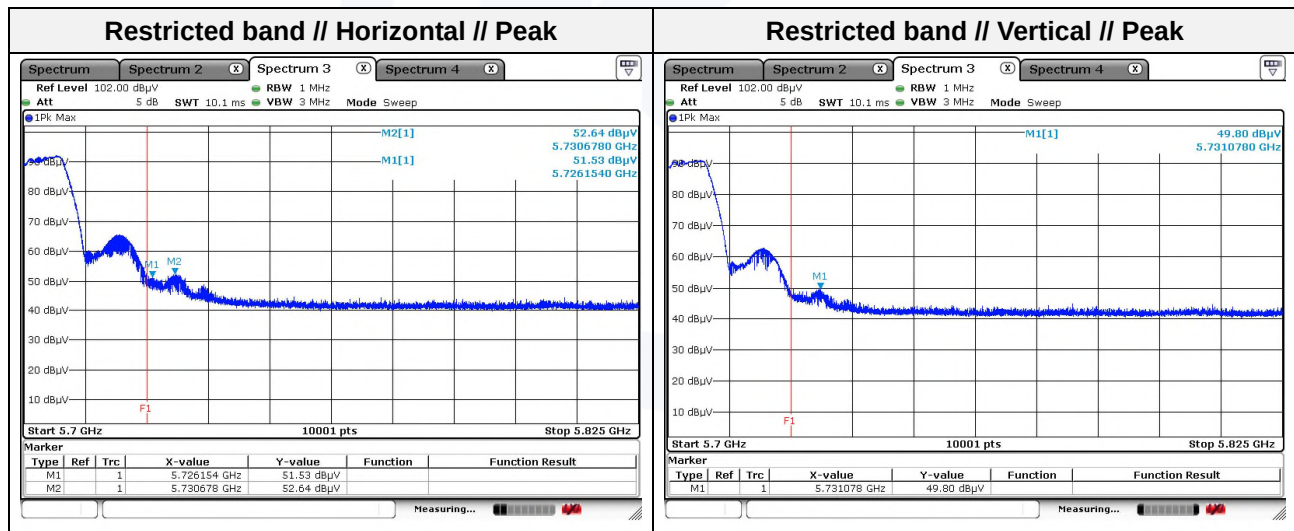
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-2C / 140

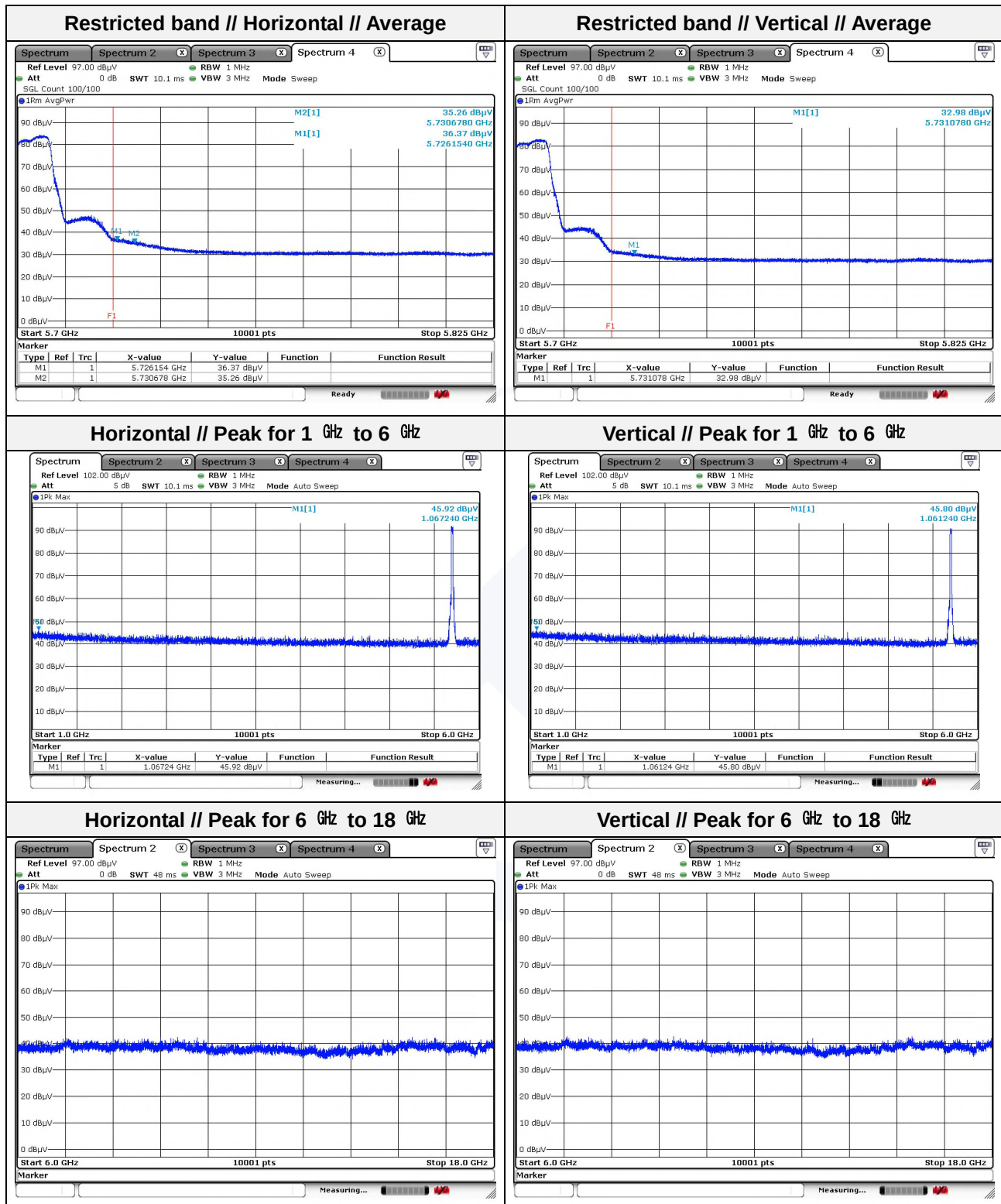
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 061.24	45.80	Peak	V	-8.26	-	37.54	74.00	36.46
1 067.24	45.92	Peak	H	-8.23	-	37.69	74.00	36.31

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 726.15	51.53	Peak	H	7.98	-	59.51	74.00	14.49
5 726.15	36.37	Average	H	7.98	-	44.35	54.00	9.65
5 730.68	52.64	Peak	H	7.99	-	60.63	74.00	13.37
5 730.68	35.26	Average	H	7.99	-	43.25	54.00	10.75
5 731.08	49.80	Peak	V	8.00	-	57.80	74.00	16.20
5 731.08	32.98	Average	V	8.00	-	40.98	54.00	13.02





Note.

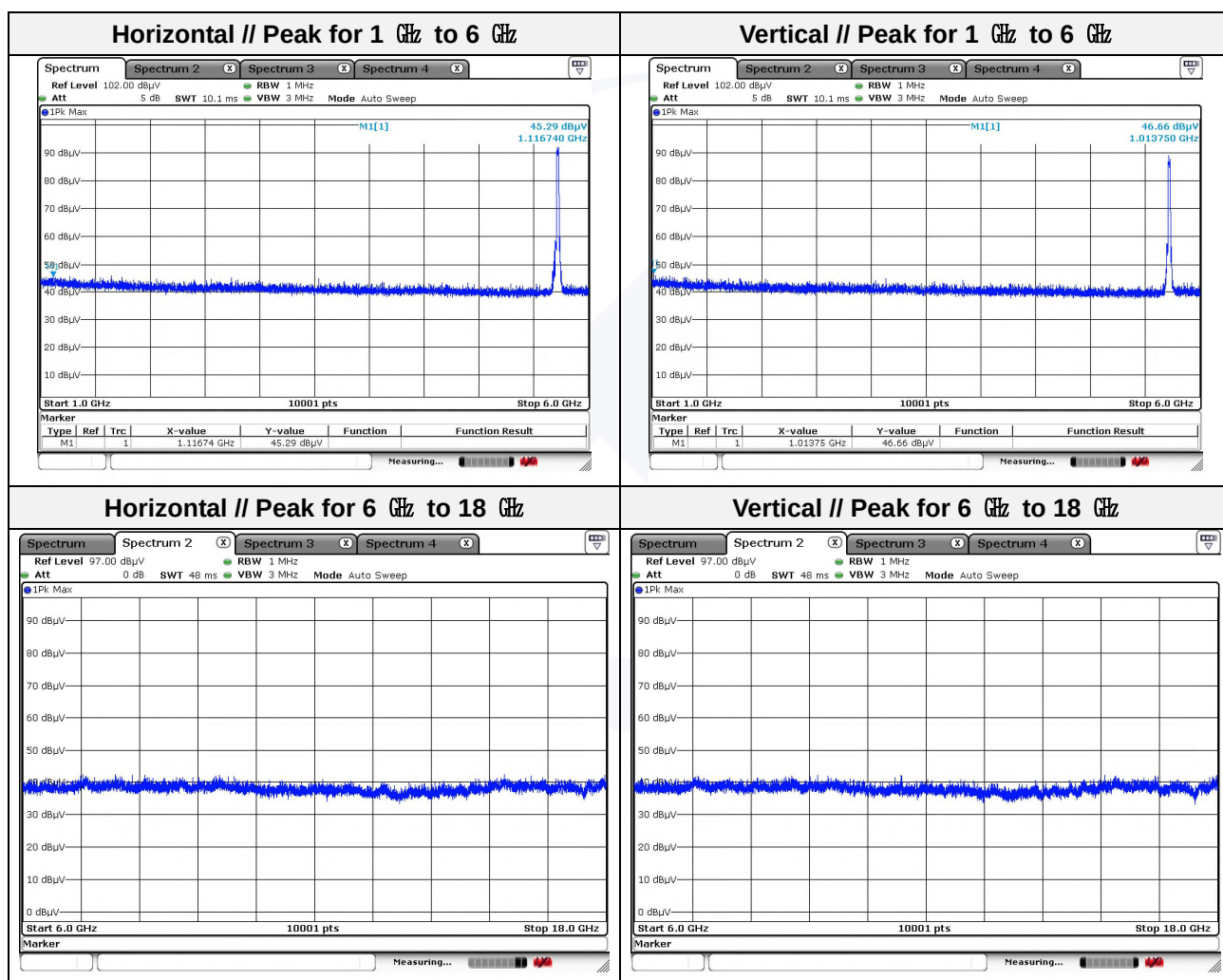
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11a (6 Mbps)
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 144

- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 013.75	46.66	Peak	V	-8.48	-	38.18	74.00	35.82
1 116.74	45.29	Peak	H	-7.99	-	37.30	74.00	36.70



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



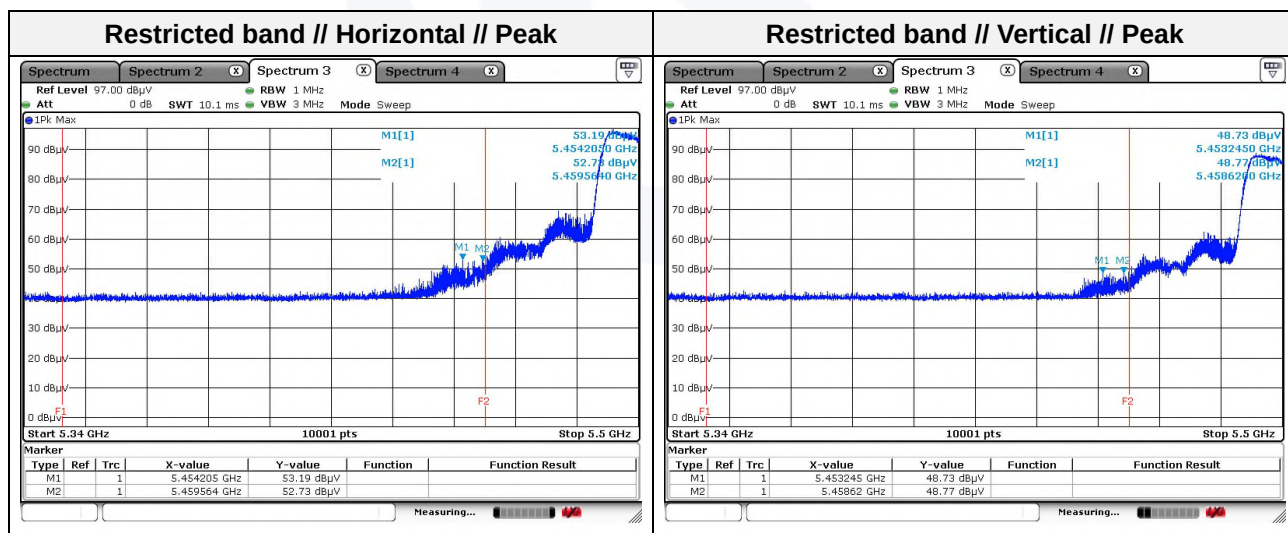
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-2C / 100

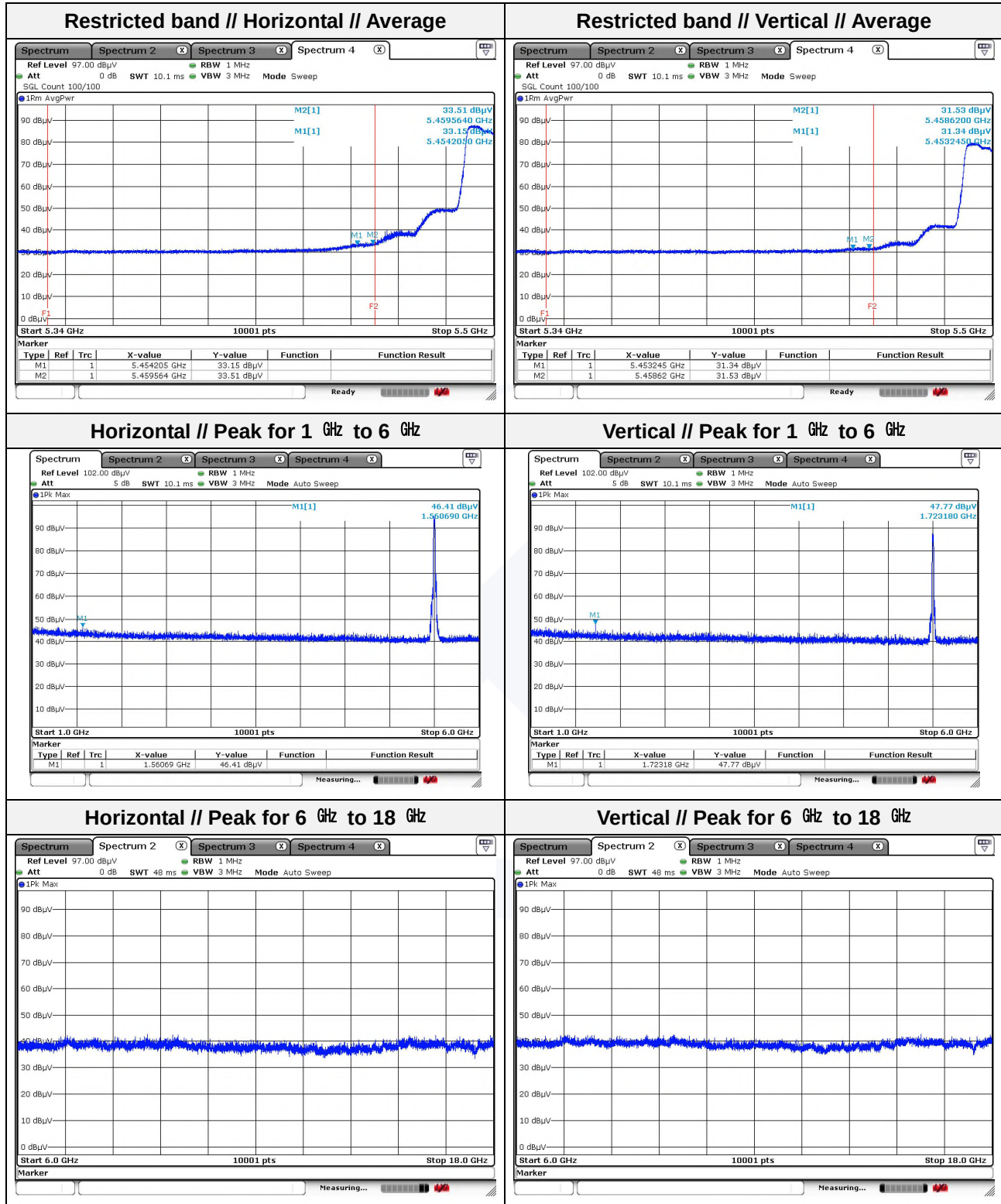
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 560.69	46.41	Peak	H	-5.60	-	40.81	74.00	33.19
1 723.18	47.77	Peak	V	-4.17	-	43.60	74.00	30.40

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 453.25	48.73	Peak	V	7.32	-	56.05	74.00	17.95
5 453.25	31.34	Average	V	7.32	-	38.66	54.00	15.34
5 454.21	53.19	Peak	H	7.32	-	60.51	74.00	13.49
5 454.21	33.15	Average	H	7.32	-	40.47	54.00	13.53
5 458.62	48.77	Peak	V	7.32	-	56.09	74.00	17.91
5 458.62	31.53	Average	V	7.32	-	38.85	54.00	15.15
5 459.56	52.73	Peak	H	7.32	-	60.05	74.00	13.95
5 459.56	33.51	Average	H	7.32	-	40.83	54.00	13.17





Note.

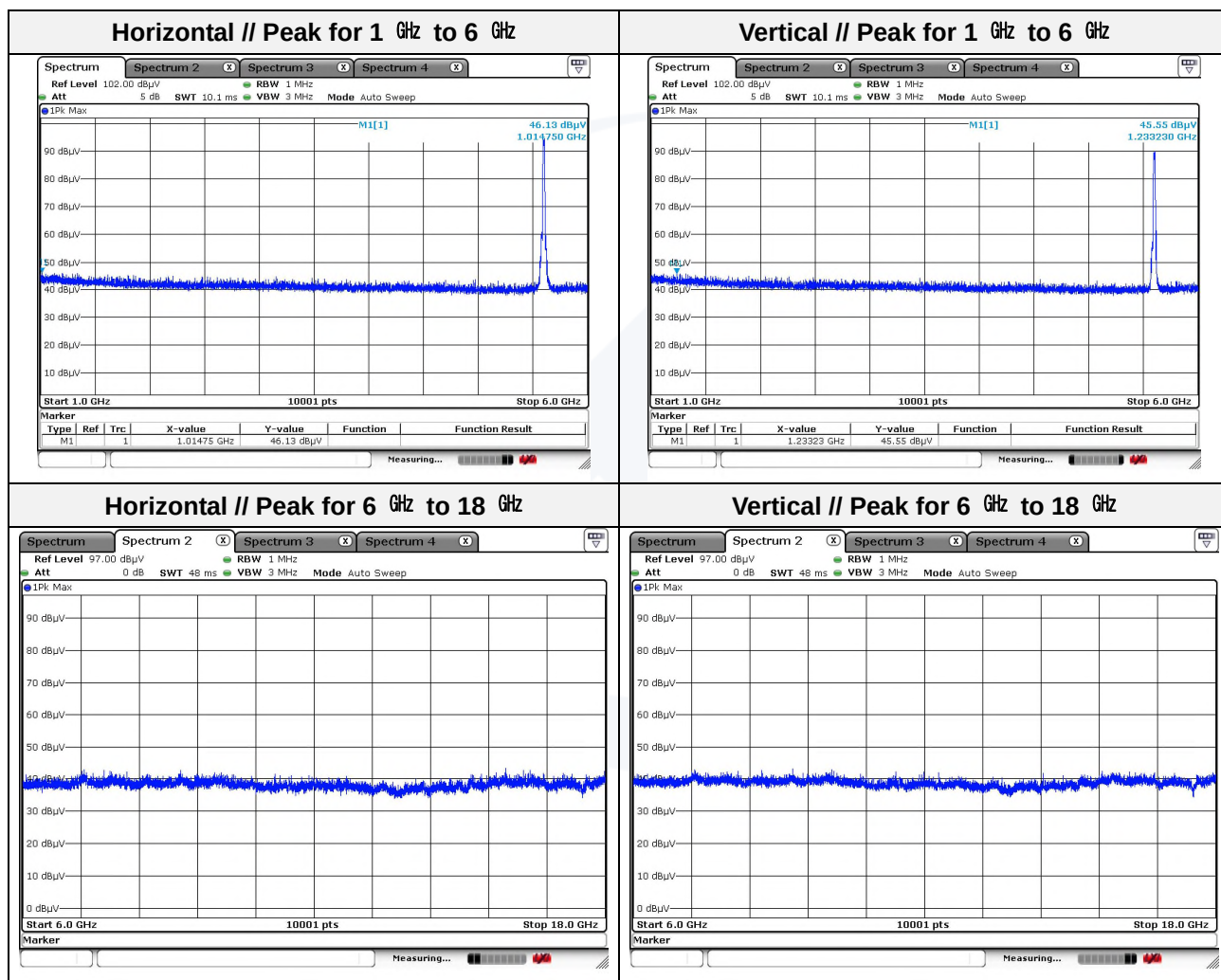
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-2C / 120

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 014.75	46.13	Peak	H	-8.48	-	37.65	74.00	36.35
1 233.23	45.55	Peak	V	-7.45	-	38.10	74.00	35.90



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Report No. : KES-RF260218

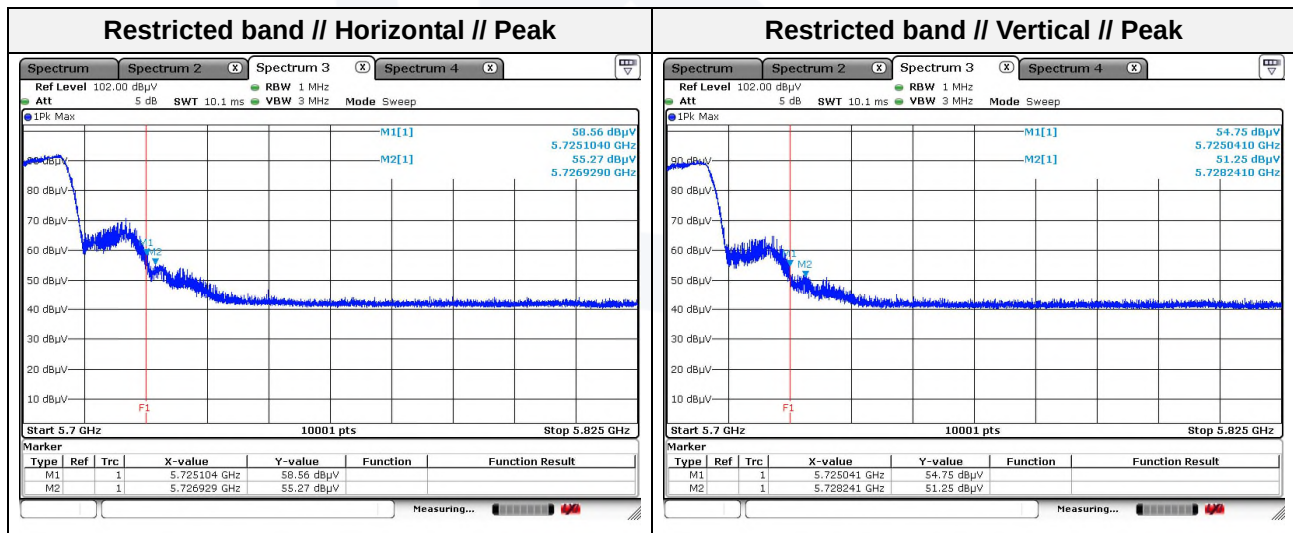
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-2C / 140

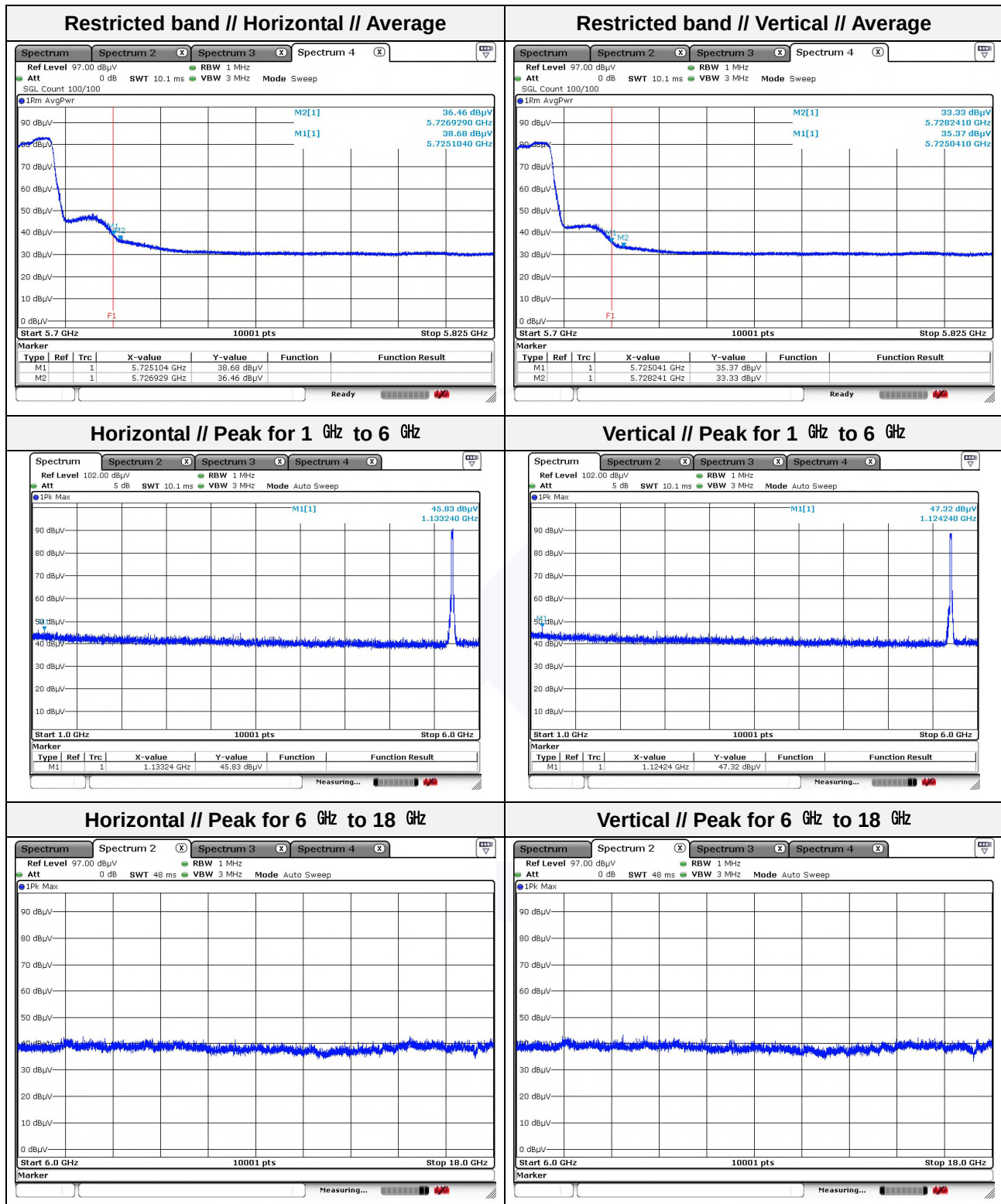
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 124.24	47.32	Peak	V	-7.96	-	39.36	74.00	34.64
1 133.24	45.83	Peak	H	-7.91	-	37.92	74.00	36.08

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 725.04	54.75	Peak	V	7.97	-	62.72	74.00	11.28
5 725.04	35.37	Average	V	7.97	-	43.34	54.00	10.66
5 725.10	58.56	Peak	H	7.97	-	66.53	74.00	7.47
5 725.10	38.68	Average	H	7.97	-	46.65	54.00	7.35
5 726.93	55.27	Peak	H	7.98	-	63.25	74.00	10.75
5 726.93	36.46	Average	H	7.98	-	44.44	54.00	9.56
5 728.24	51.25	Peak	V	7.98	-	59.23	74.00	14.77
5 728.24	33.33	Average	V	7.98	-	41.31	54.00	12.69





Note.

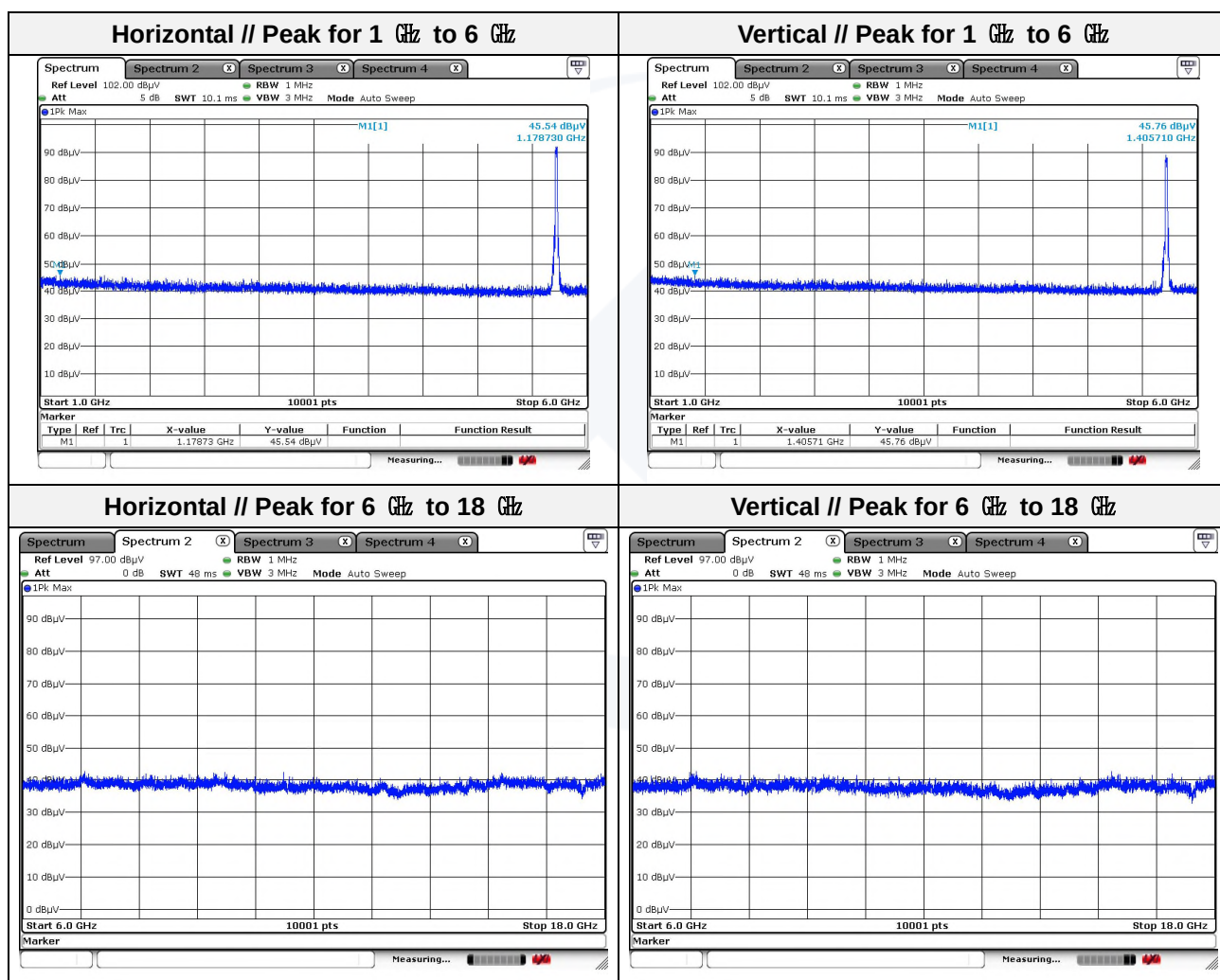
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11n_HT20 (MCS0)
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 144

- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 178.73	45.54	Peak	H	-7.70	-	37.84	74.00	36.16
1 405.71	45.76	Peak	V	-6.67	-	39.09	74.00	34.91

**Note.**

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



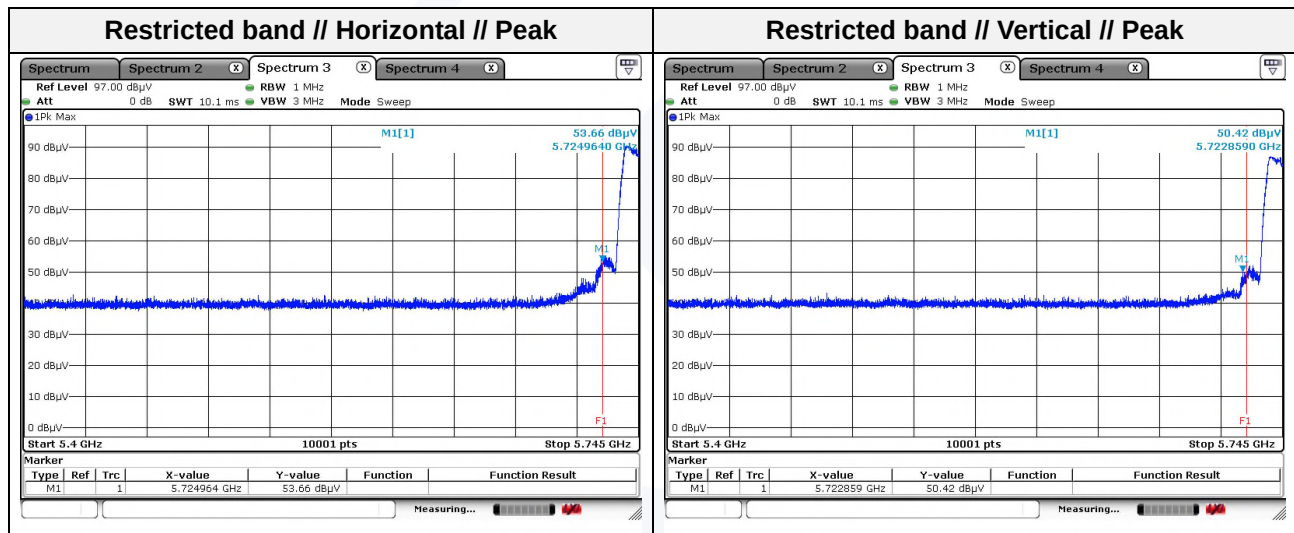
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-3 / 149

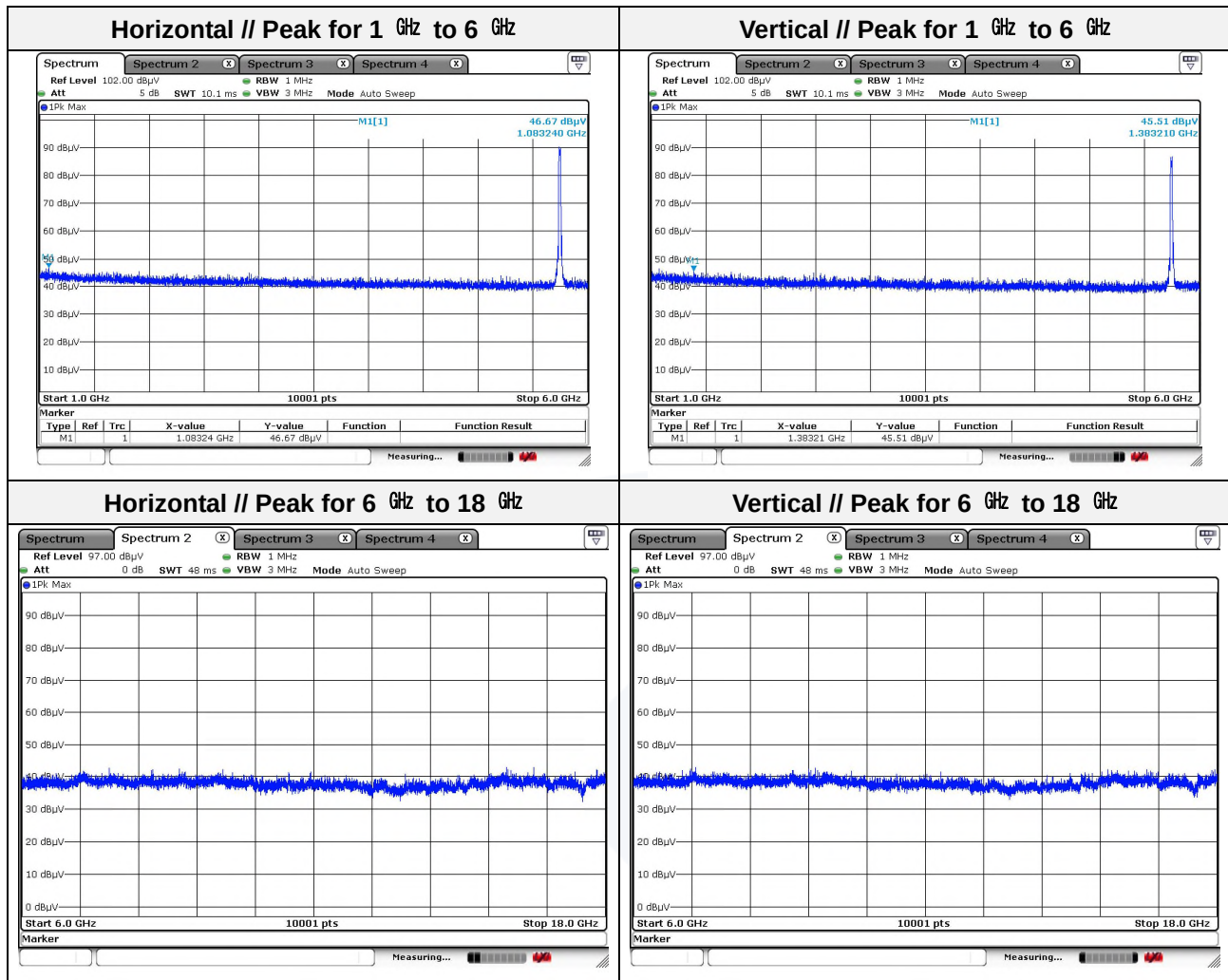
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 083.24	46.67	Peak	H	-8.15	-	38.52	74.00	35.48
1 383.21	45.51	Peak	V	-6.77	-	38.74	74.00	35.26

- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
5 722.86	50.42	Peak	V	7.96	-	58.38	117.35	58.97
5 724.96	53.66	Peak	H	7.97	-	61.63	122.14	60.51





Note.

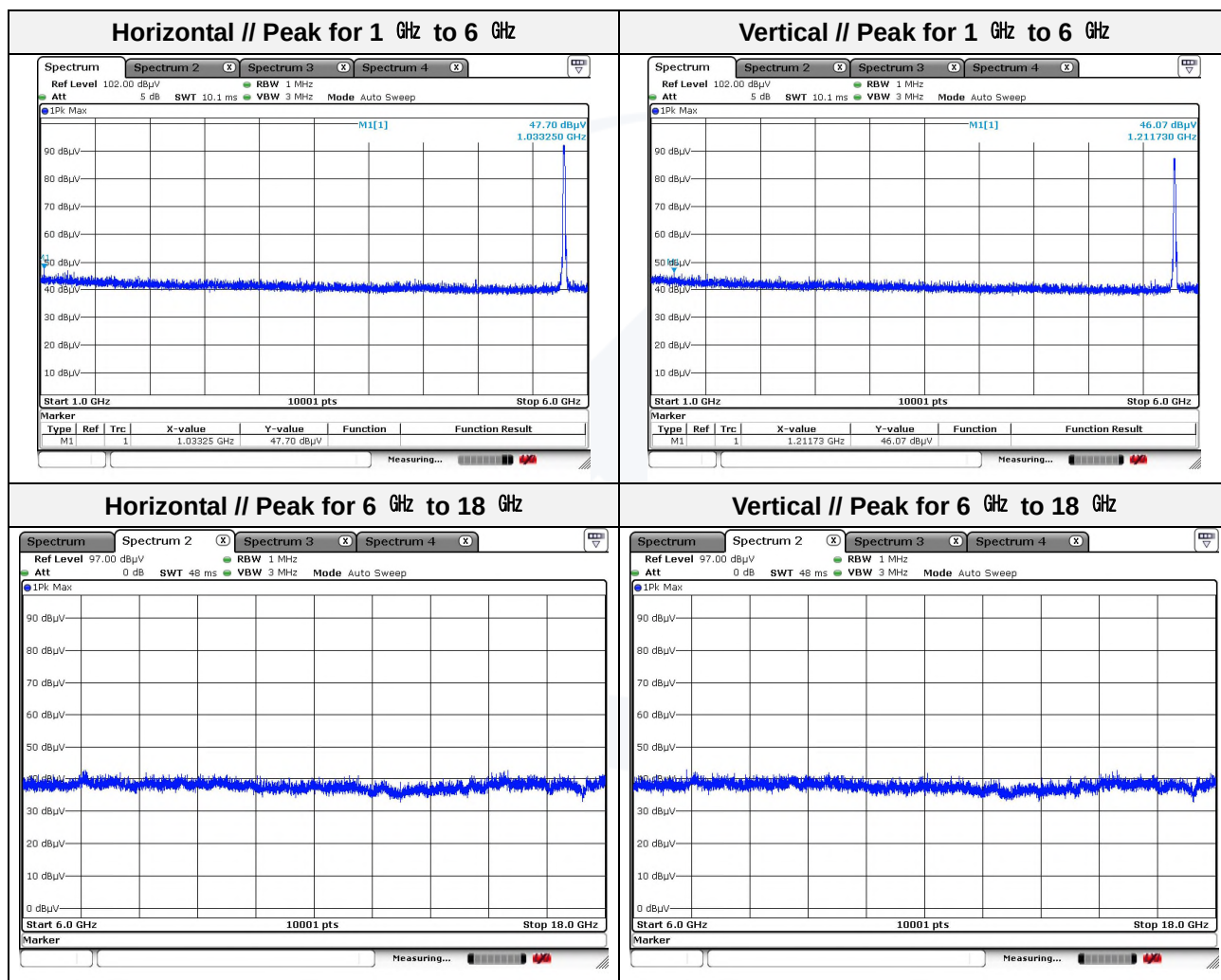
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-3 / 157

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 033.25	47.70	Peak	H	-8.39	-	39.31	74.00	34.69
1 211.73	46.07	Peak	V	-7.54	-	38.53	74.00	35.47



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



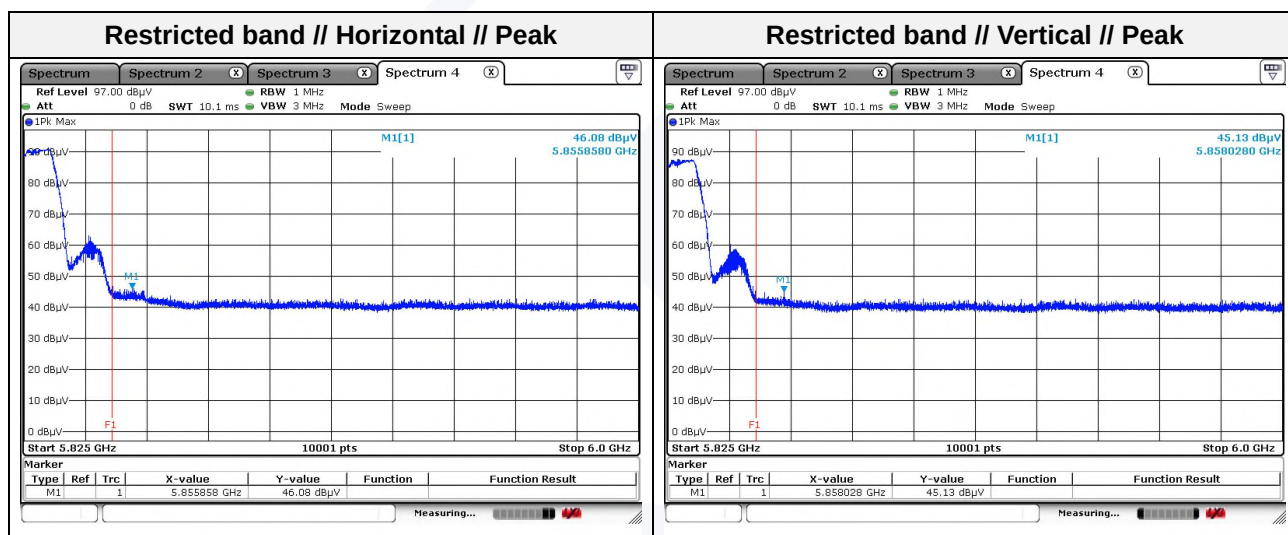
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-3 / 165

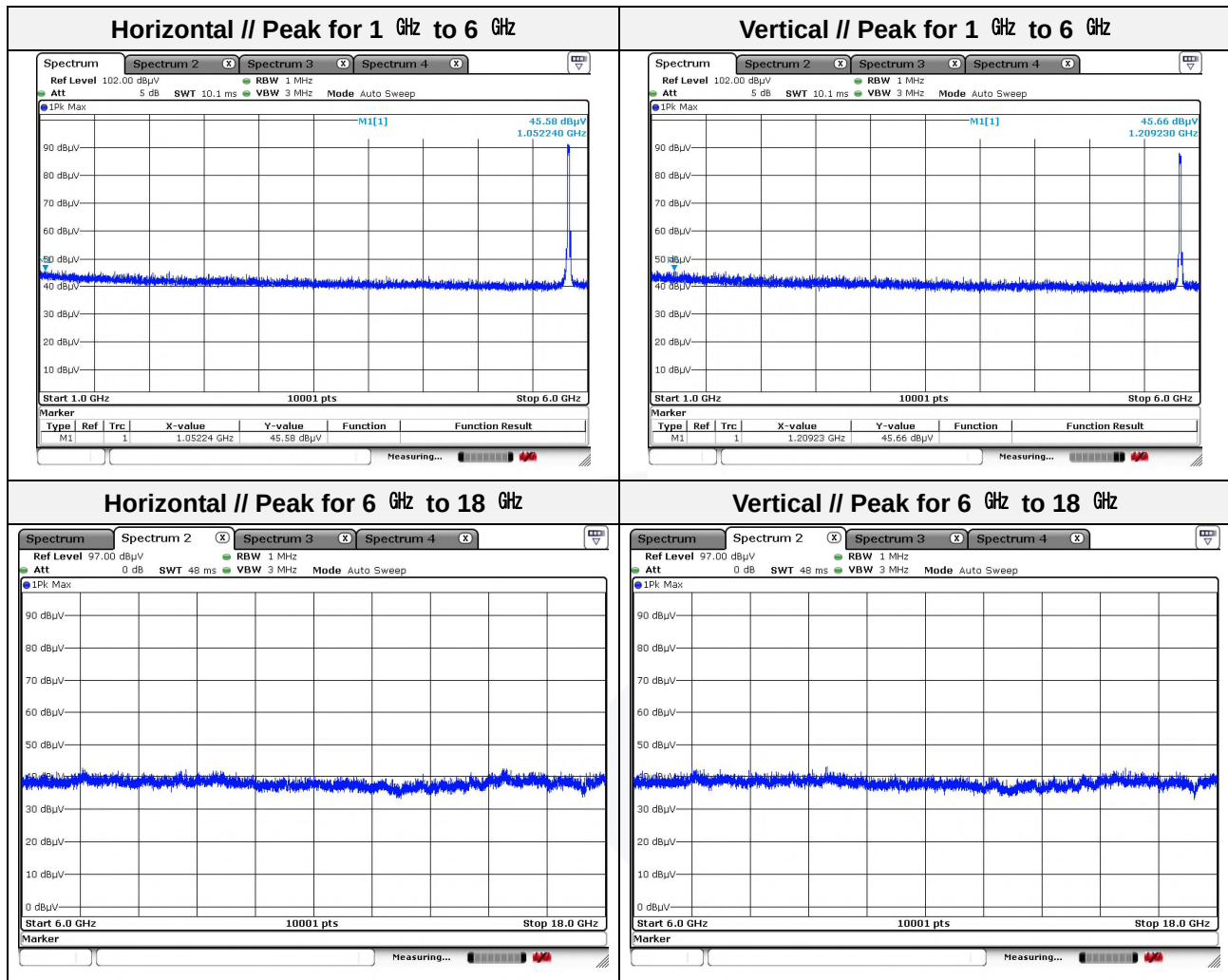
- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 052.24	45.58	Peak	H	-8.30	-	37.28	74.00	36.72
1 209.23	45.66	Peak	V	-7.55	-	38.11	74.00	35.89

- Band edge

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 855.86	46.08	Peak	H	8.28	-	54.36	110.59	56.23
5 858.03	45.13	Peak	V	8.28	-	53.41	109.98	56.57





Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



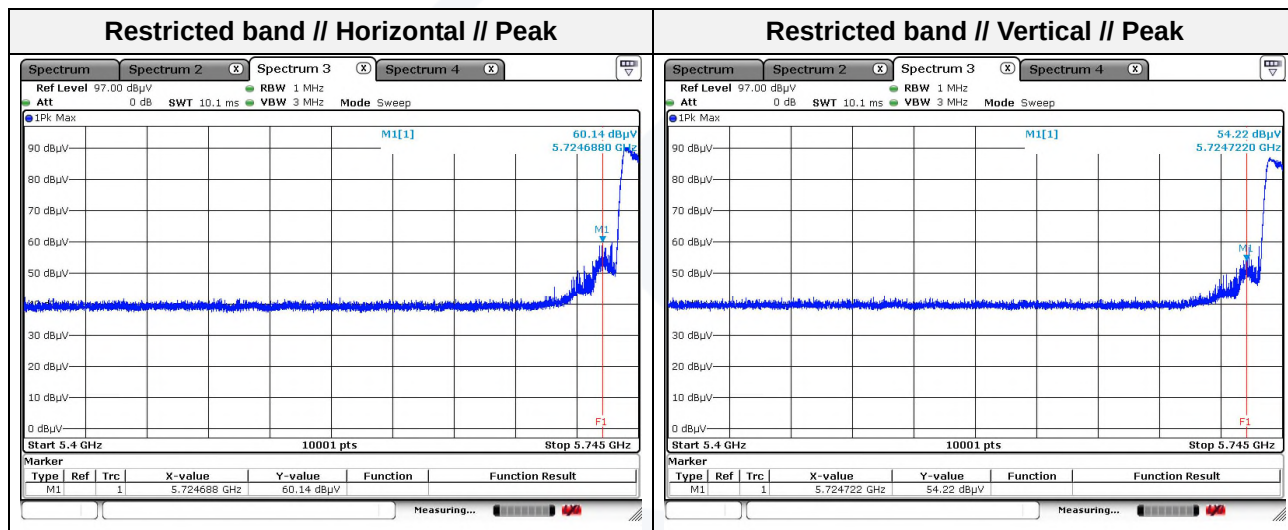
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-3 / 149

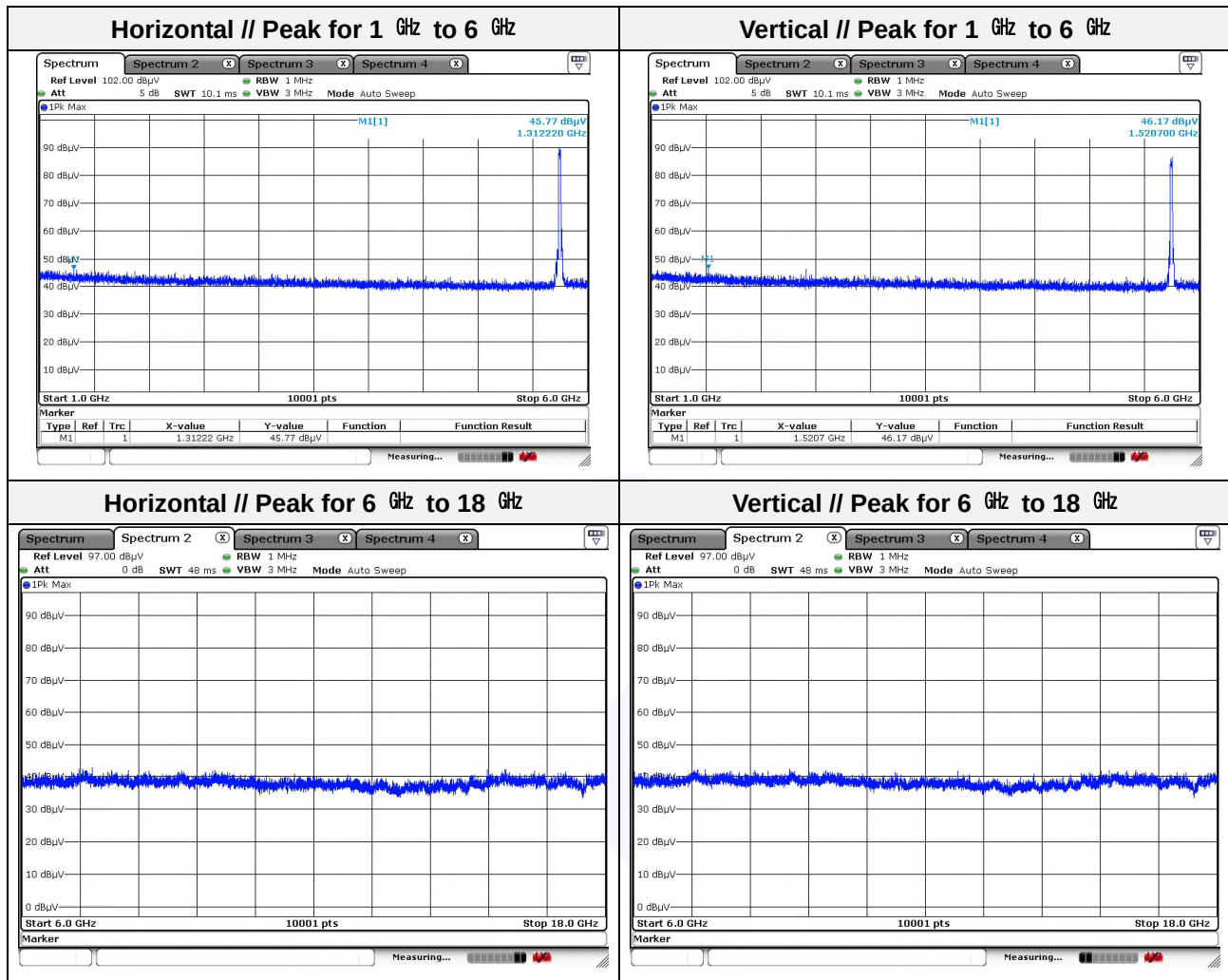
- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 312.22	45.77	Peak	H	-7.09	-	38.68	74.00	35.32
1 520.70	46.17	Peak	V	-5.97	-	40.20	74.00	33.80

- Band edge

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 724.69	60.14	Peak	H	7.97	-	68.11	121.52	53.41
5 724.72	54.22	Peak	V	7.97	-	62.19	121.59	59.40





Note.

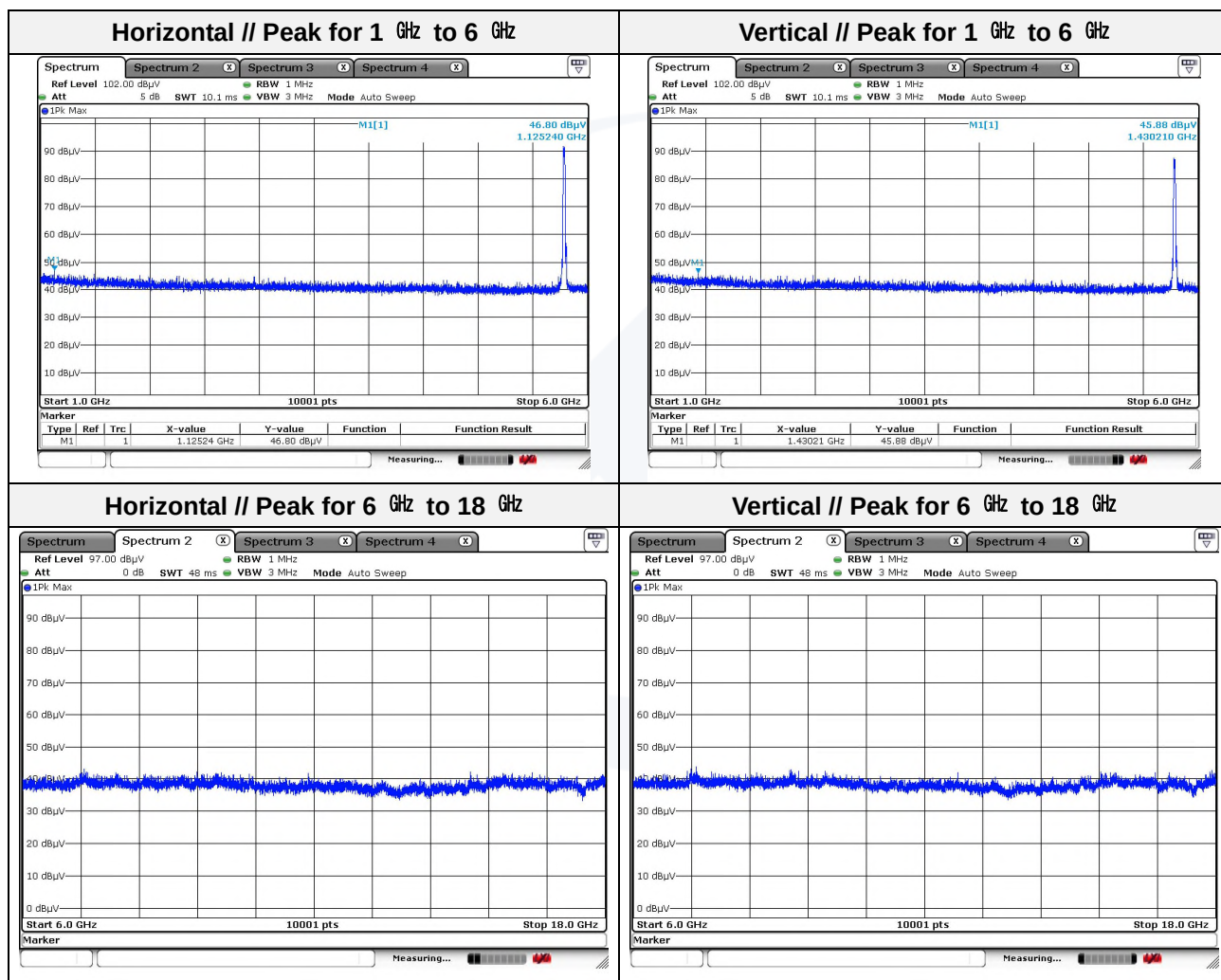
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-3 / 157

- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 125.24	46.80	Peak	H	-7.95	-	38.85	74.00	35.15
1 430.21	45.88	Peak	V	-6.54	-	39.34	74.00	34.66



Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



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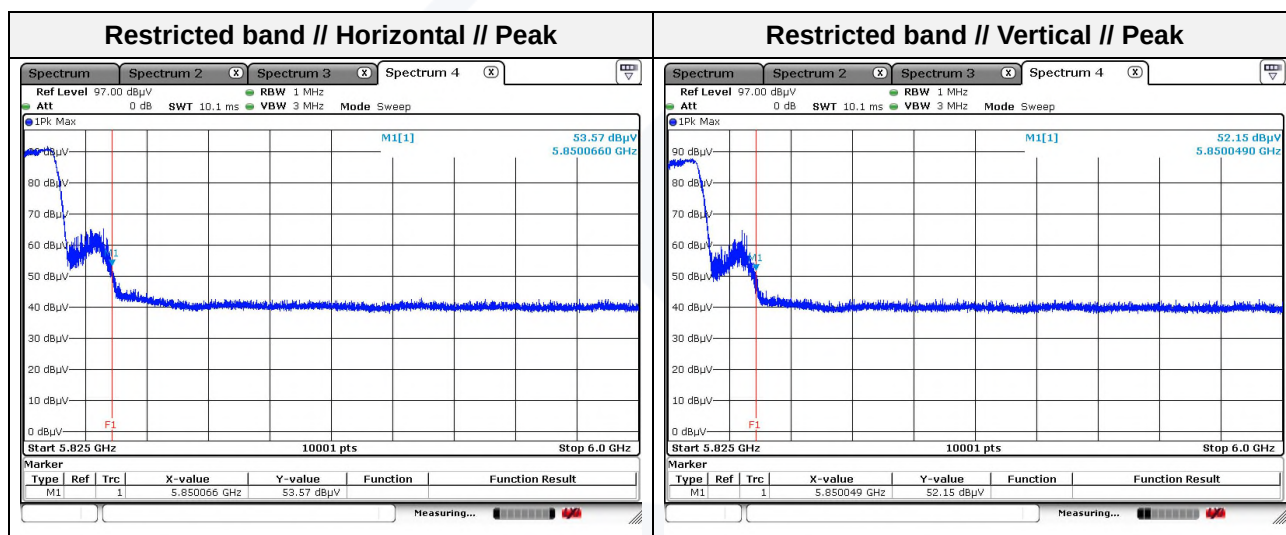
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-3 / 165

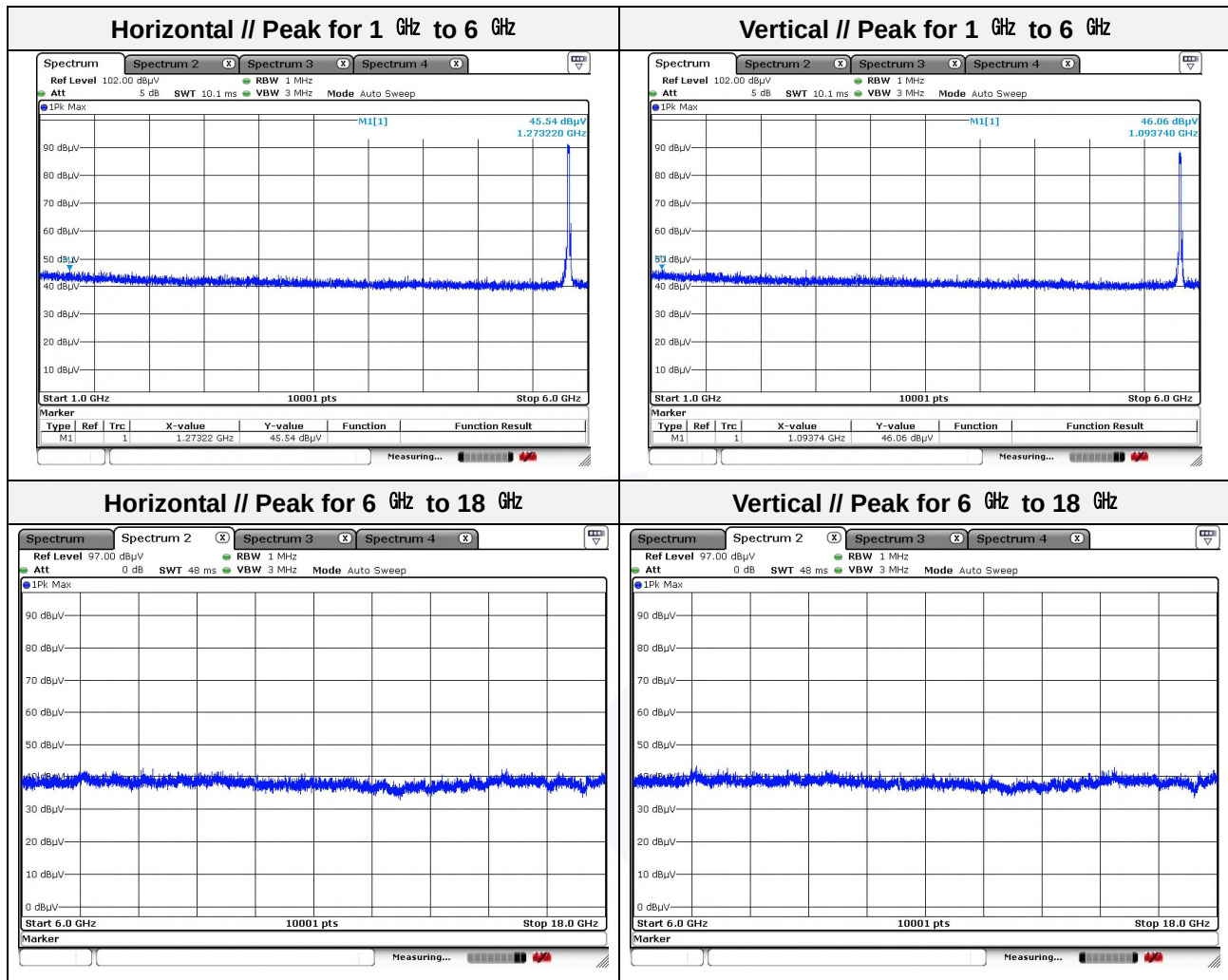
- Spurious

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
1 093.74	46.06	Peak	V	-8.10	-	37.96	74.00	36.04
1 273.22	45.54	Peak	H	-7.27	-	38.27	74.00	35.73

- Band edge

Frequency (MHz)	Level (dB μ V)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
5 850.05	52.15	Peak	V	8.28	-	60.43	122.12	61.69
5 850.07	53.57	Peak	H	8.28	-	61.85	122.07	60.22





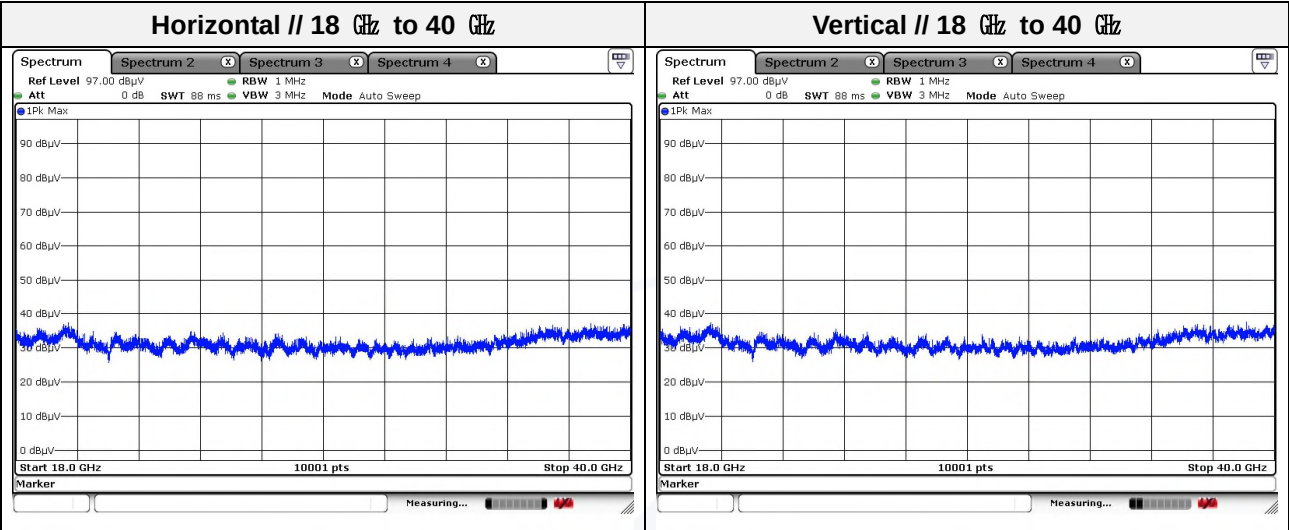
Note.

1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



Test results (18 GHz to 40 GHz)

Mode 802.11a (6 Mbps) (Worst Case)
Distance of measurement: 3 meter
Channel 149 (Worst Case)



Note.

1. No spurious emission were detected above 18 GHz.



3.2. 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 kHz to 30 MHz, 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 (MHz)	Conducted limit (dBμV)	
	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 (6 Mbps) (Worst case)

Band: UNII-3

Channel: 149 (Worst Case)





3.3. Antenna Requirement

According to 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.



**Appendix A. Measurement equipment**

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
Spectrum analyzer	R&S	FSV40	101725	1 year	2026.06.10
Spectrum analyzer	R&S	FSV40	101002	1 year	2027.01.06
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2027.04.02
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2027.04.02
LOOP ANTENNA	TESEQ	HLA6121	66547	2 years	2028.01.13
TRILOG-BROADBAND ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2028.04.16
Horn Antenna	A.H.	SAS-571	414	1 year	2027.01.12
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2027.01.12
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2027.02.12
PREAMPLIFIER	8449B	AGILENT	3008A01742	1 year	2026.10.22
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2027.01.12
EMI TEST RECEIVER	R&S	ESU26	100517	1 year	2026.07.08
EMI Test SW	EP5/RE	TOYO Corporation	6.0.0	-	-
EMI Test Receiver	R&S	ESR3	101783	1 year	2026.11.03
EMI Test SW	R&S	EMC32	9.12.00	-	-
PULSE LIMITER	R&S	ESH2-Z2	101915	1 year	2026.11.03
LISN	R&S	ENV216	101786	1 year	2027.01.08
Cable (SR #6)	RG 400	-	-	0.5 year	2026.07.25
Cable (SAC #5)	SUCOFLEX106	HUBER_SUHNER	-	0.5 year	2026.07.25
	SUCOFLEX106	HUBER_SUHNER	-	0.5 year	2026.07.25
	LH21D/2Xsma	OSI Cable	-	0.5 year	2026.07.25
Cable (SAC #6)	TCLH21D-SMSM-2.5M 0222	OSI Cable	-	0.5 year	2026.07.25
	TCLH21D-NMNM-10.0M 0222	OSI Cable	-	0.5 year	2026.07.25
	TCLH21D-SMSM-7.0M 0222	OSI Cable	-	0.5 year	2026.07.25

* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LGS53	306QCZP560949
AC/DC Adapter	Salcomp (Shenzhen) Co., Ltd	S21A27	73551102435

The End.