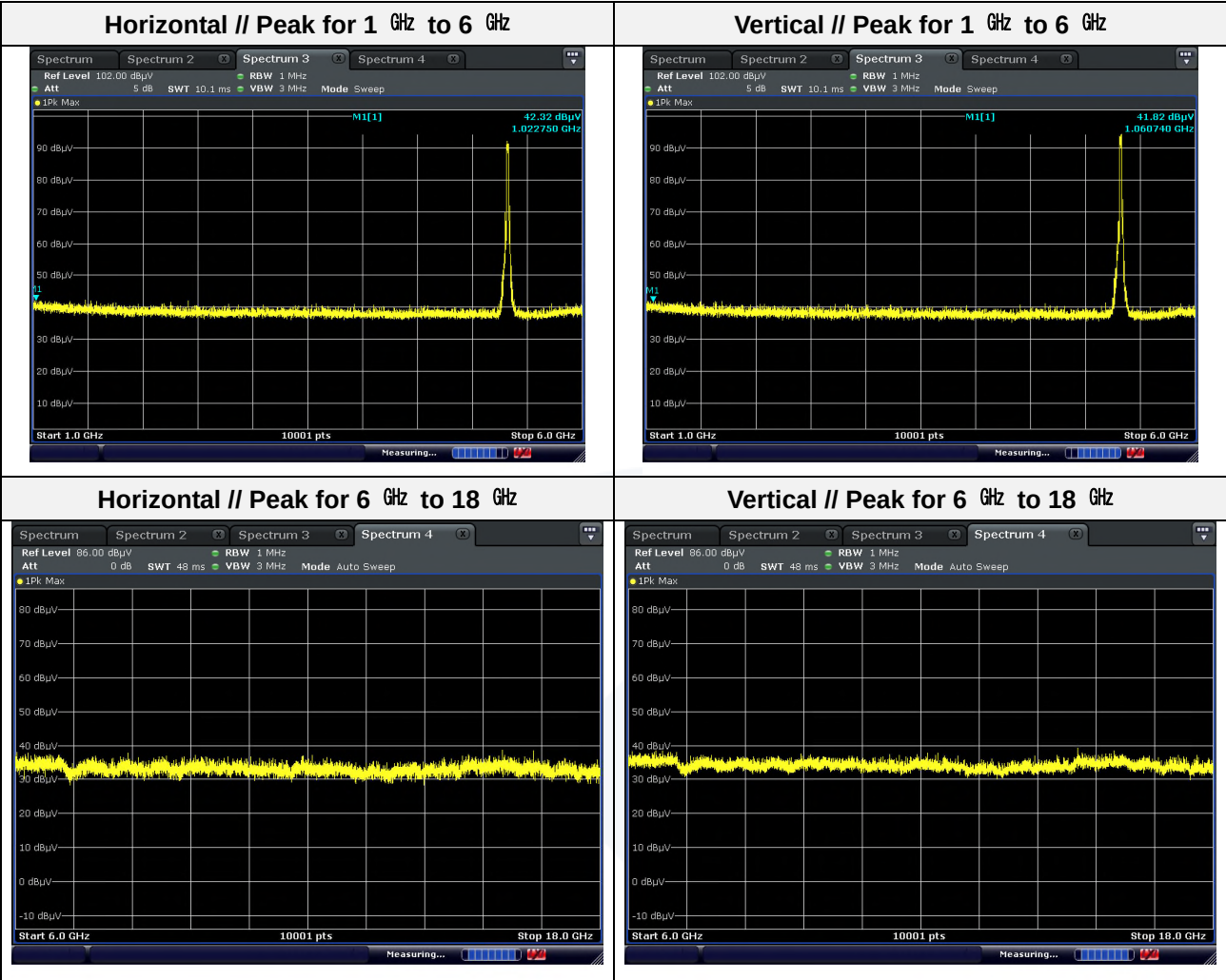




Note.

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-RF250775

Mode: 802.11a (6 Mbps)

Distance of measurement: 3 meter

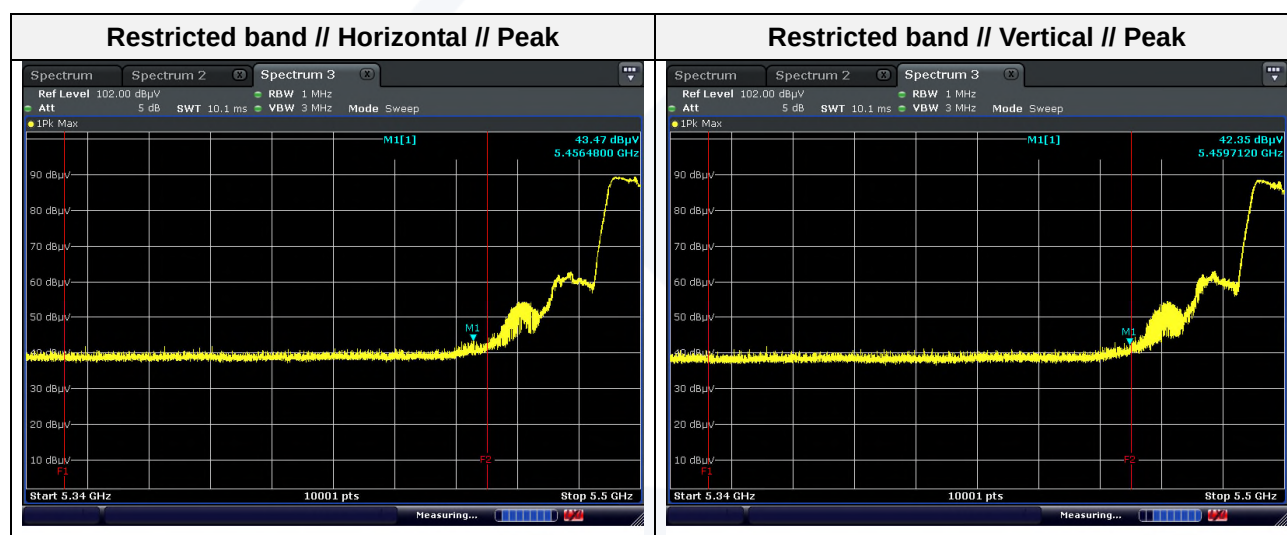
Channel: UNII-2C / 100

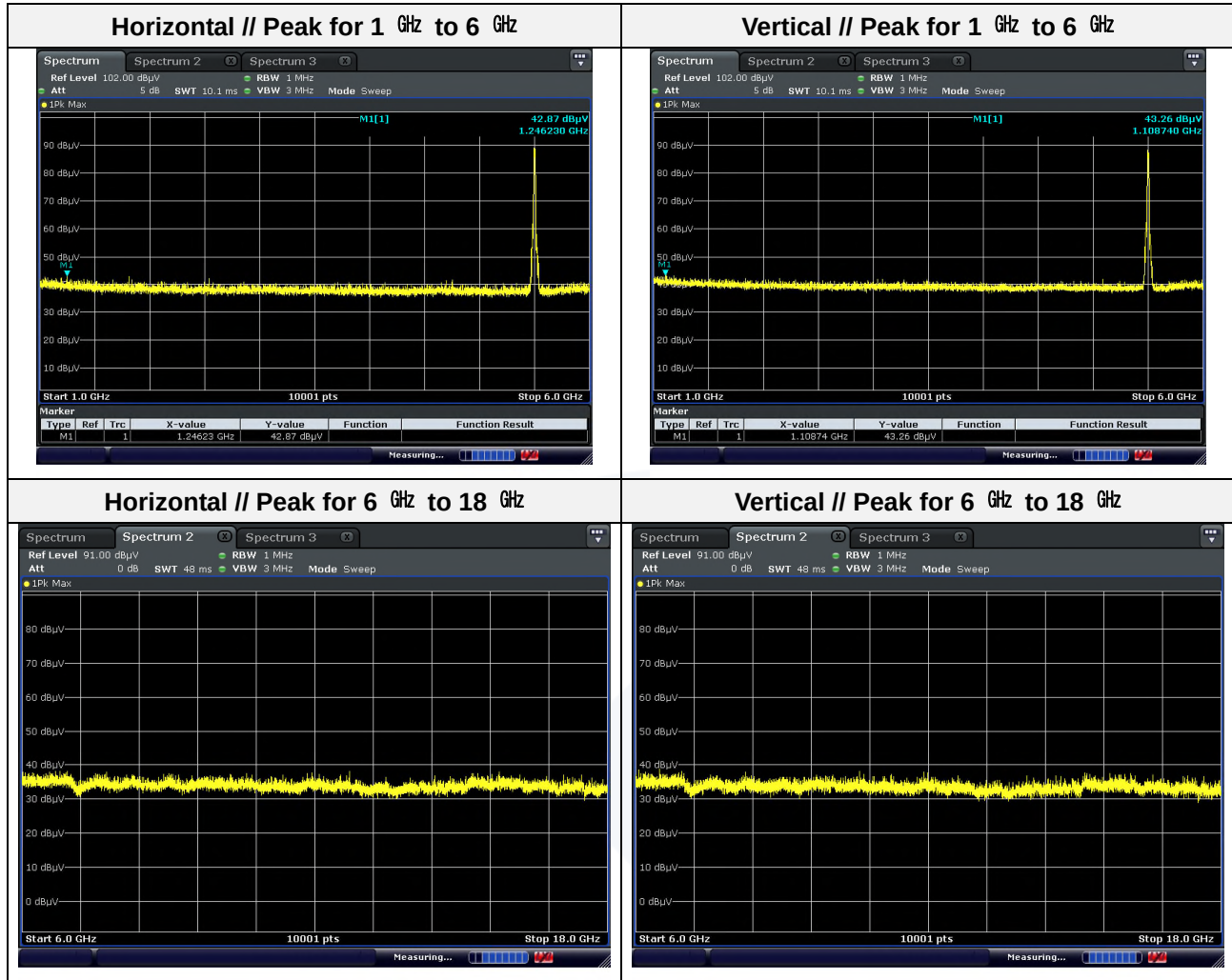
- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 108.74	43.26	Peak	V	-7.50	-	35.76	74.00	38.24
1 246.23	42.87	Peak	H	-6.62	-	36.25	68.23	31.98

- 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)
5 456.48	43.47	Peak	H	7.96	-	51.43	74.00	22.57
5 459.71	42.35	Peak	V	7.97	-	50.32	74.00	23.68





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.

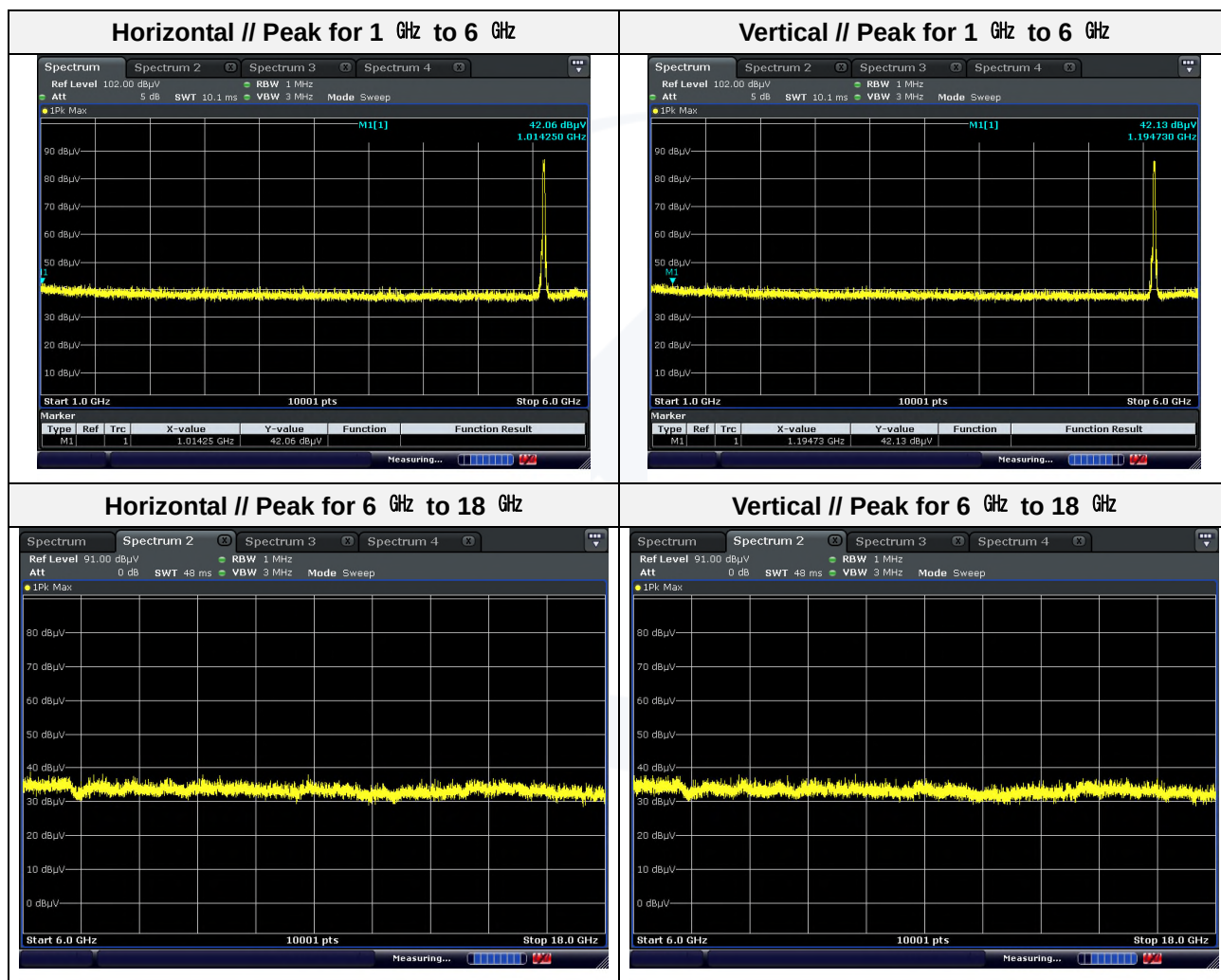


Report No. : KES-RF250775

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)
1 014.25	42.06	Peak	H	-8.06	-	34.00	74.00	40.00
1 194.73	42.13	Peak	V	-6.99	-	35.14	74.00	38.86



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-RF250775

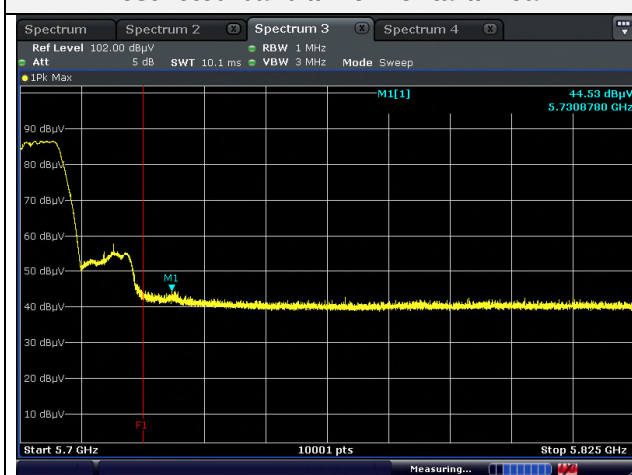
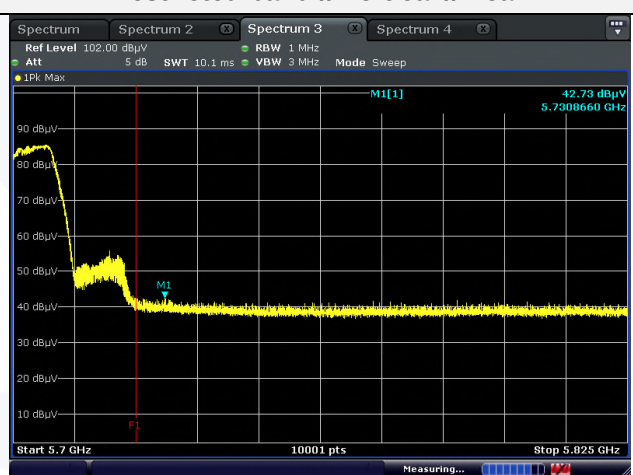
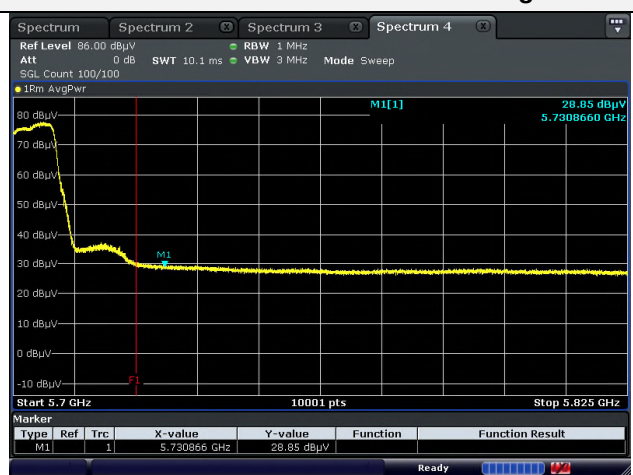
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-2C / 140

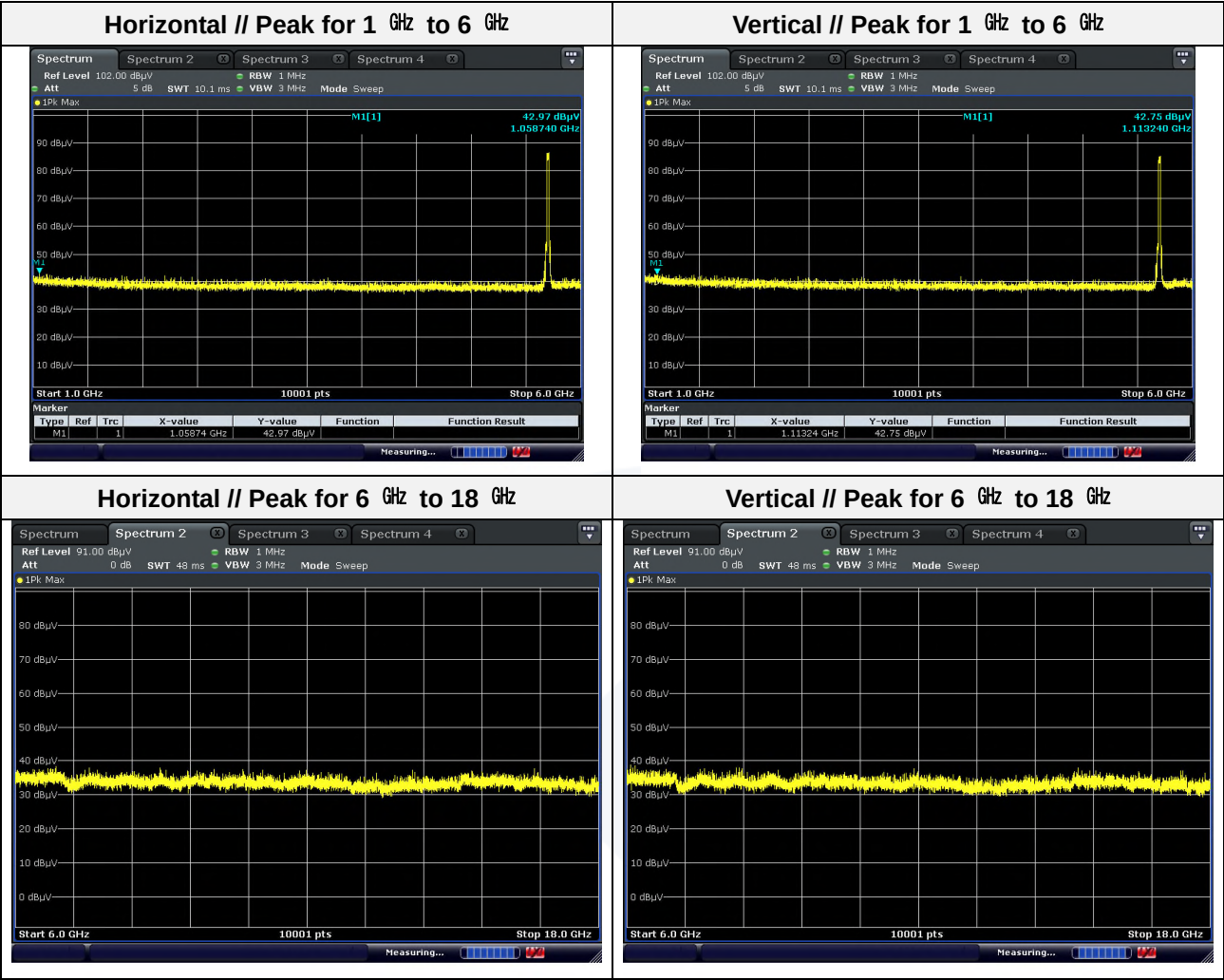
- Spurious

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)
1 058.74	42.97	Peak	H	-7.80	-	35.17	74.00	38.83
1 113.24	42.75	Peak	V	-7.47	-	35.28	74.00	38.72

- 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)
5 730.87	42.73	Peak	V	8.93	-	51.66	68.23	16.57
5 730.87	28.85	Average	V	8.93	-	37.78	48.23	10.45
5 730.88	44.53	Peak	H	8.93	-	53.46	68.23	14.77
5 730.88	29.44	Average	H	8.93	-	38.37	48.23	9.86

Restricted band // Horizontal // Peak**Restricted band // Vertical // Peak****Restricted band // Horizontal // Average****Restricted band // Vertical // Average**



- 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.

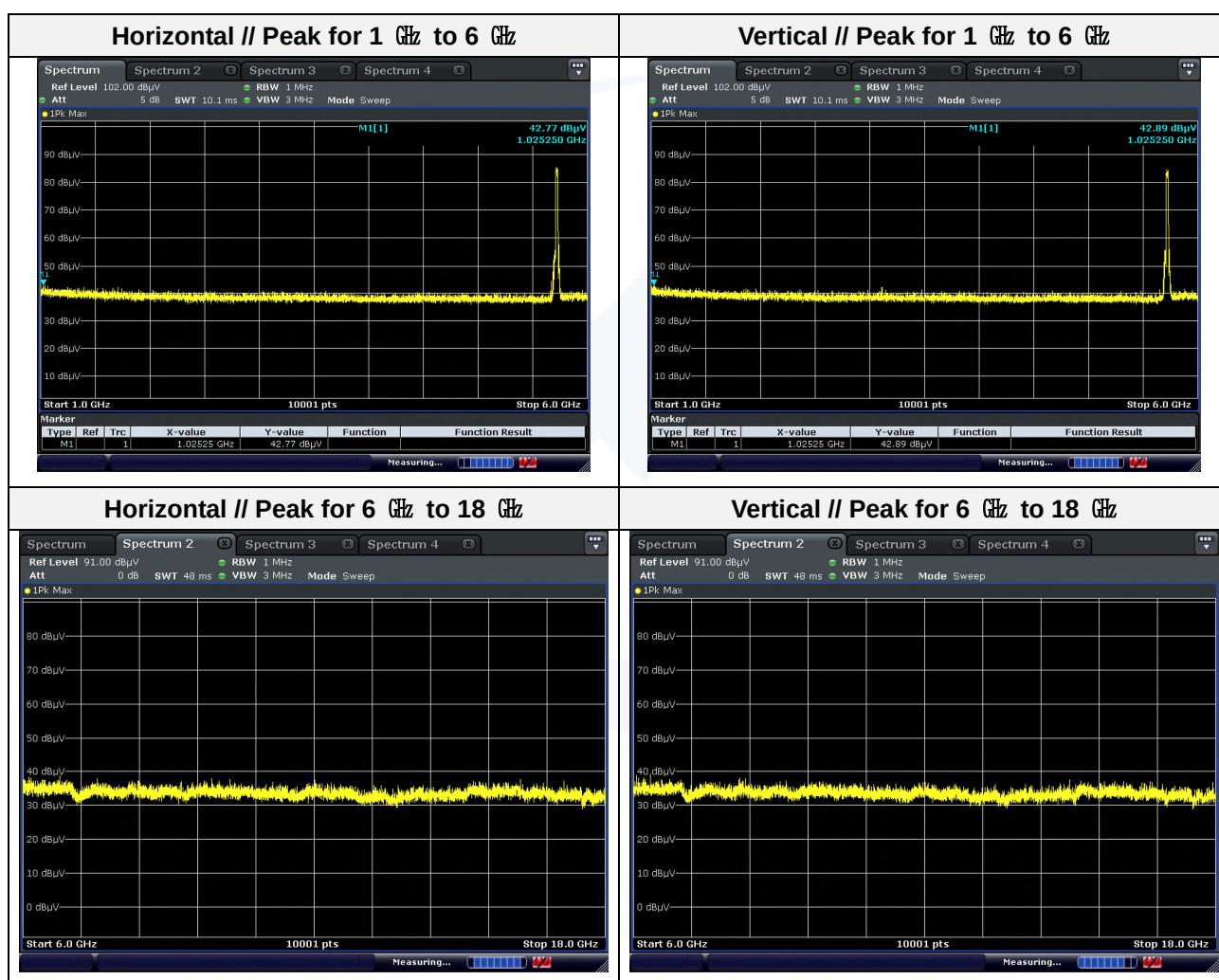


Report No. : KES-RF250775

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)
1 025.25	42.77	Peak	H	-7.99	-	34.78	74.00	39.22
1 025.25	42.89	Peak	V	-7.99	-	34.90	74.00	39.10



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-RF250775

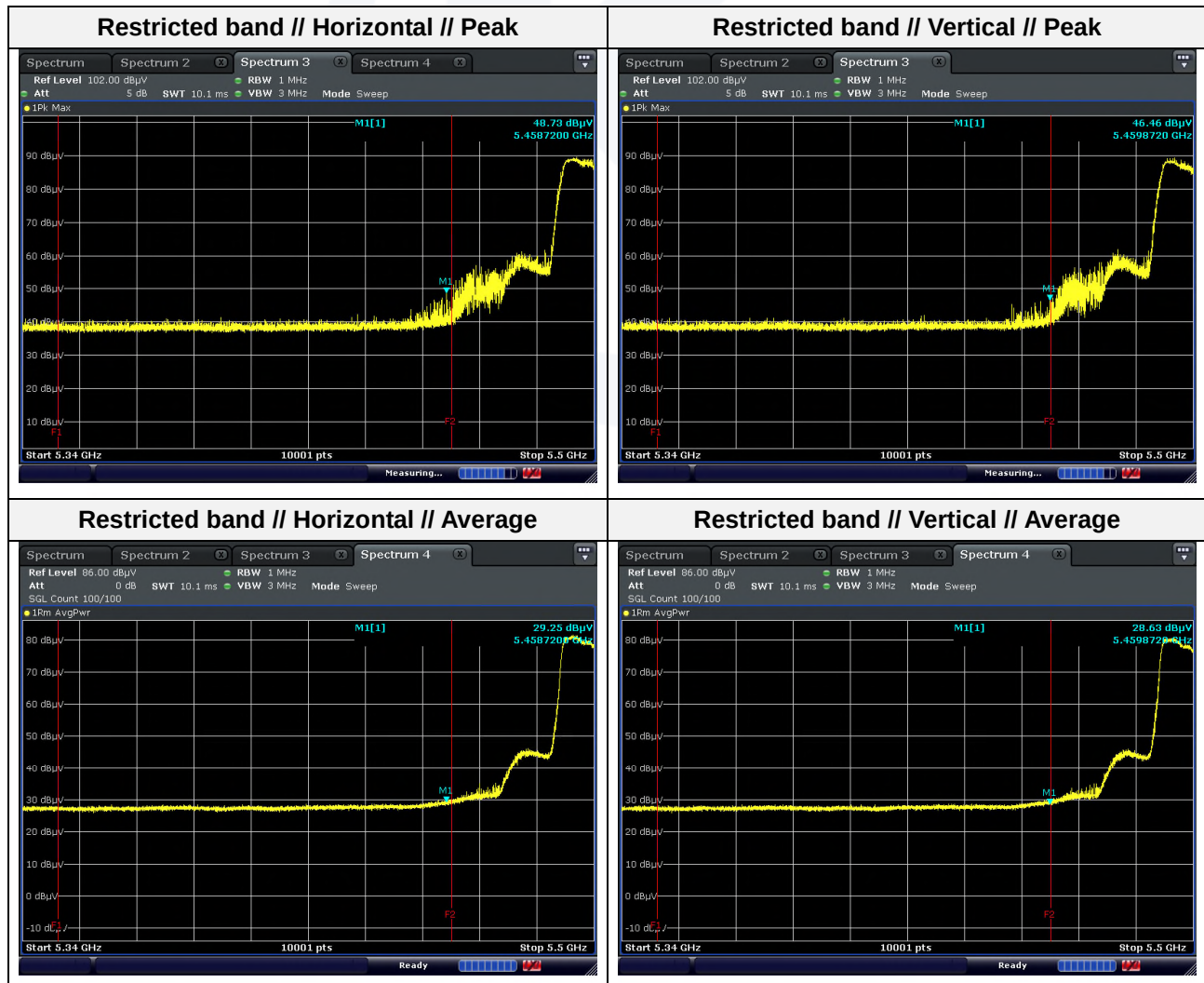
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-2C / 100

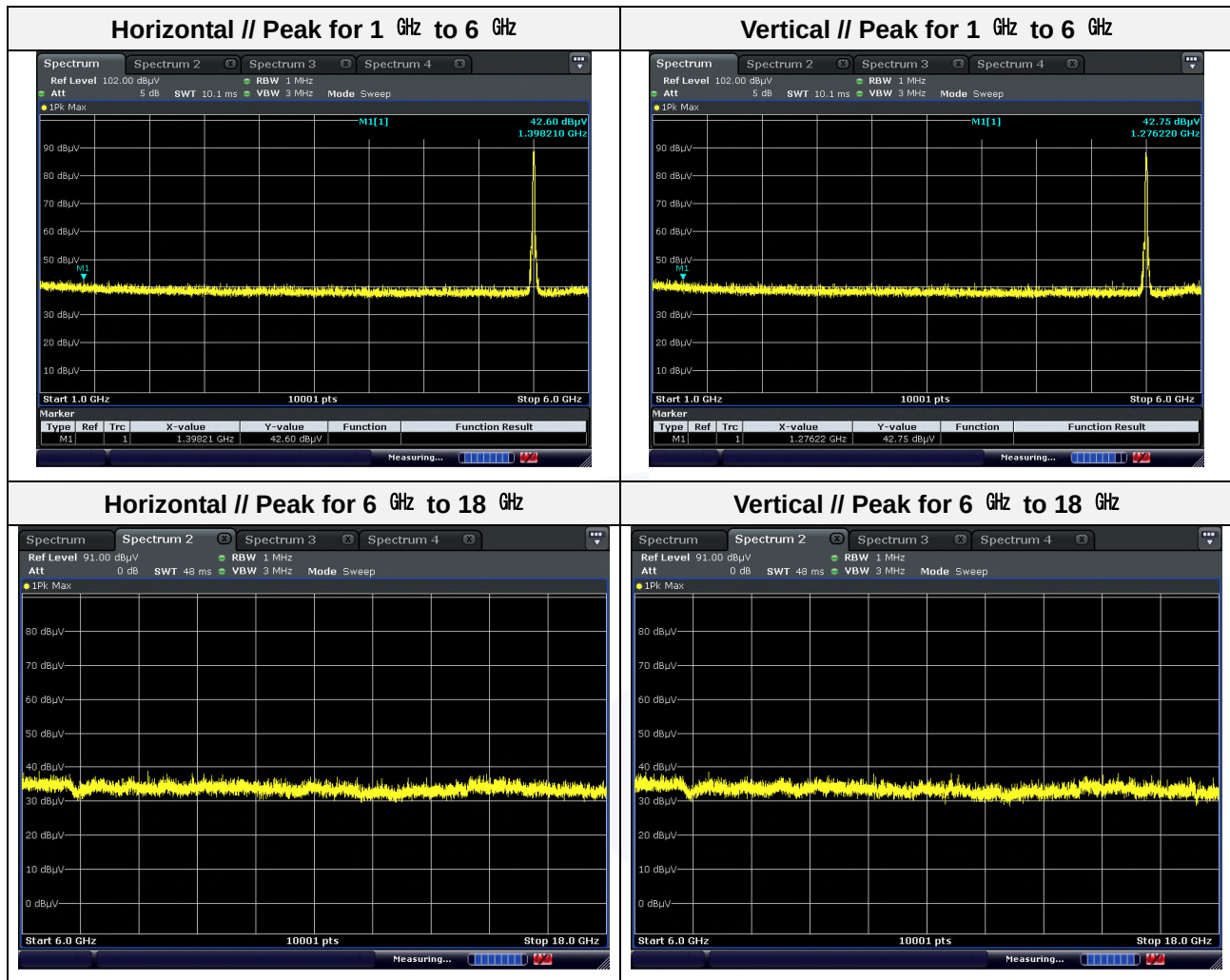
- Spurious

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)
1 276.22	42.75	Peak	V	-6.40	-	36.35	68.23	31.88
1 398.21	42.60	Peak	H	-5.52	-	37.08	74.00	36.92

- 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)
5 458.72	48.73	Peak	H	7.97	-	56.70	74.00	17.30
5 458.72	29.25	Average	H	7.97	-	37.22	54.00	16.78
5 459.87	46.46	Peak	V	7.97	-	54.43	74.00	19.57
5 459.87	28.63	Average	V	7.97	-	36.60	54.00	17.40





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.

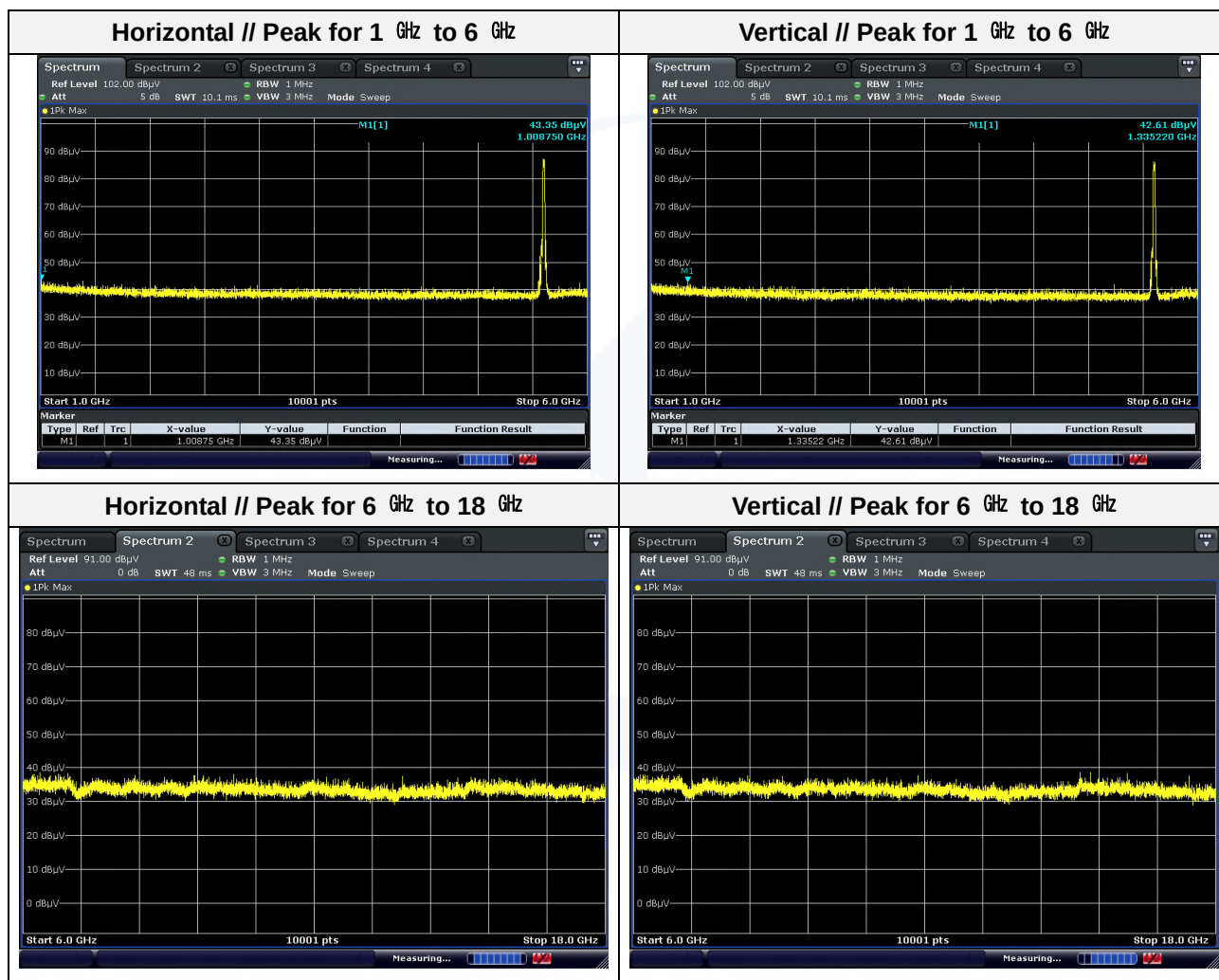


Report No. : KES-RF250775

Mode: 802.11n_HT20 (MCS 0)
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)
1 008.75	43.35	Peak	H	-8.09	-	35.26	74.00	38.74
1 335.22	42.61	Peak	V	-5.97	-	36.64	74.00	37.36



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.



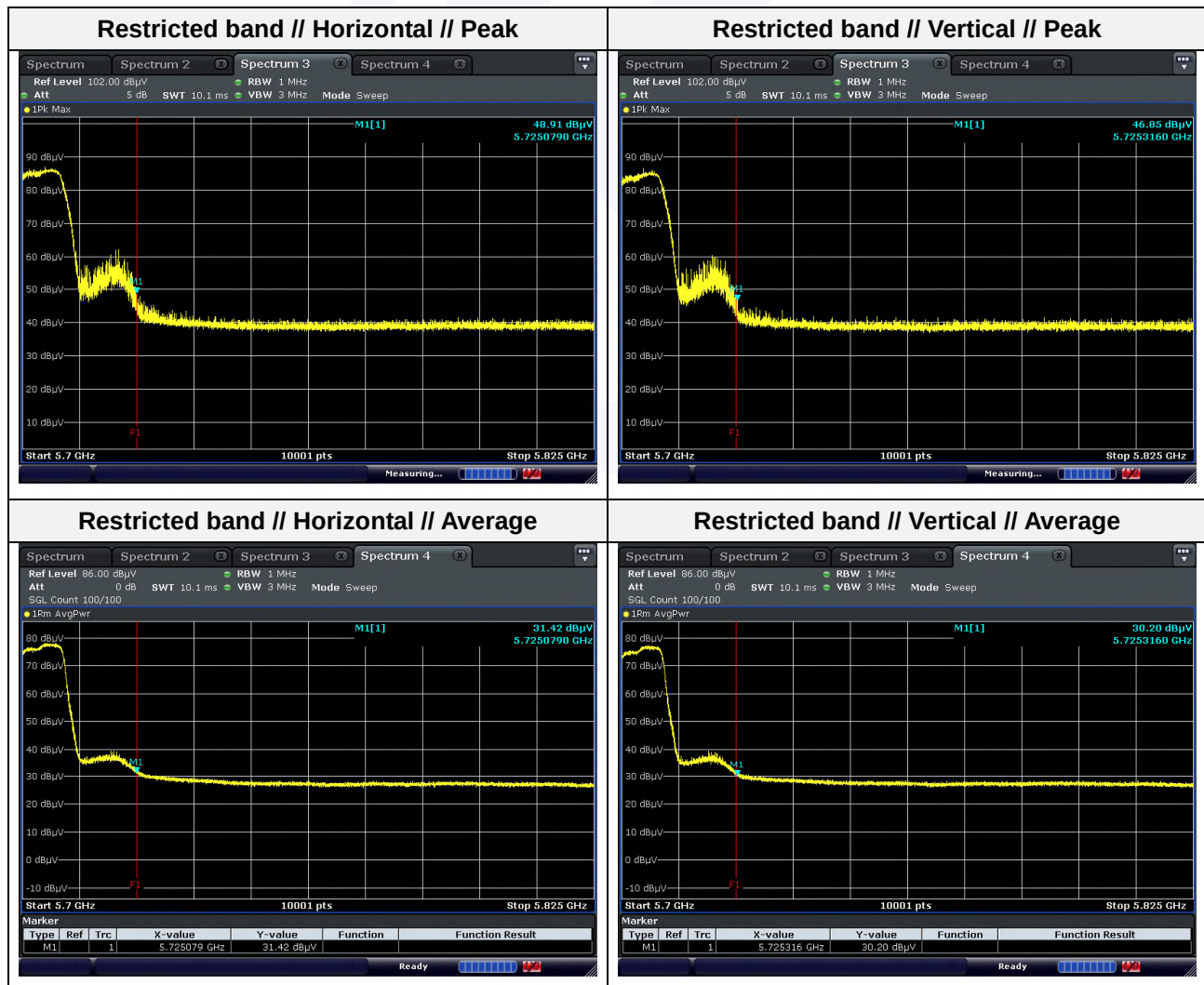
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-2C / 140

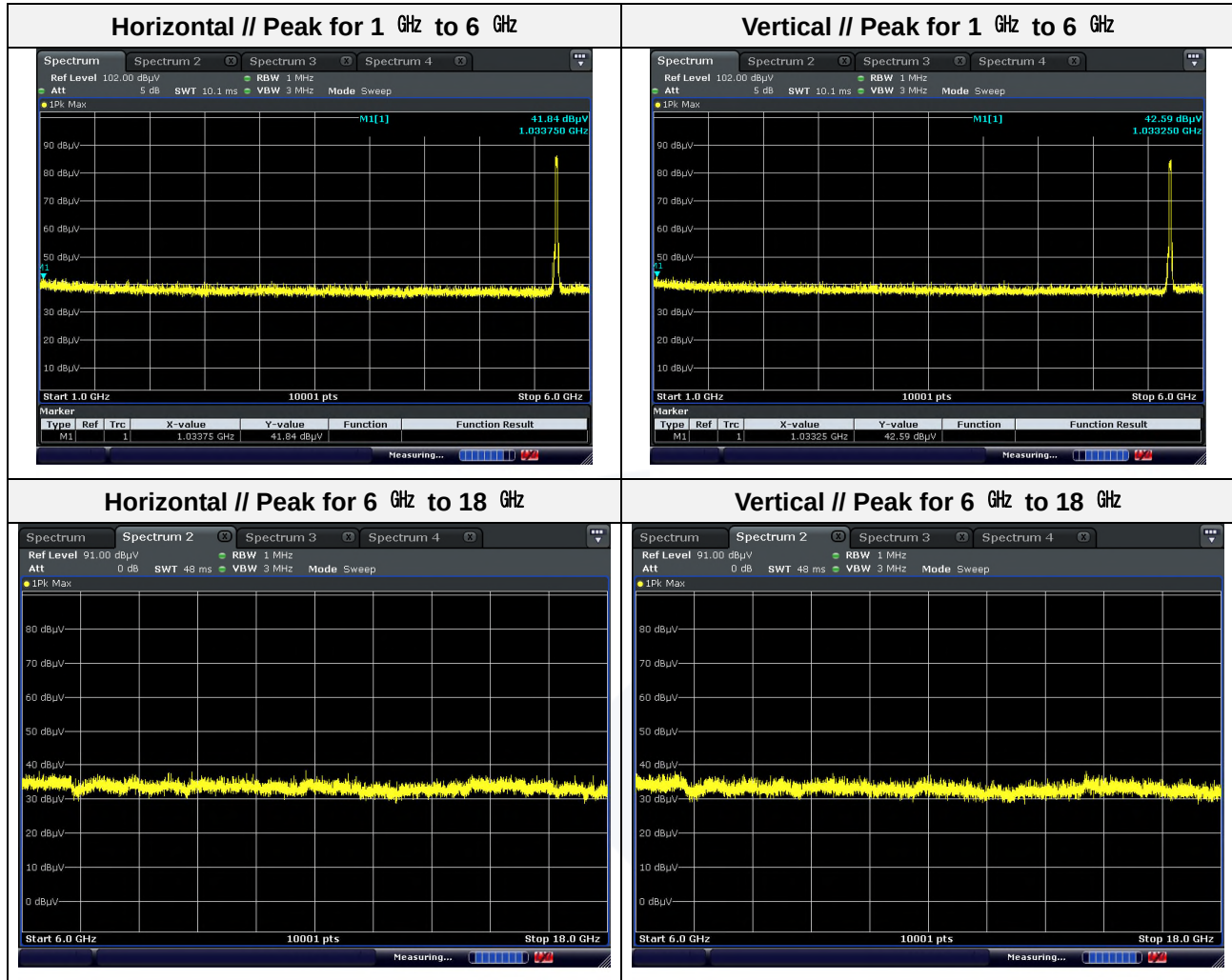
- Spurious

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)
1 033.25	42.59	Peak	V	-7.95	-	34.64	74.00	39.36
1 033.75	41.84	Peak	H	-7.94	-	33.90	74.00	40.10

- 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)
5 725.08	48.91	Peak	H	8.91	-	57.82	68.23	10.41
5 725.08	31.42	Average	H	8.91	-	40.33	48.23	7.90
5 725.32	46.85	Peak	V	8.91	-	55.76	68.23	12.47
5 725.32	30.20	Average	V	8.91	-	39.11	48.23	9.12





Note.

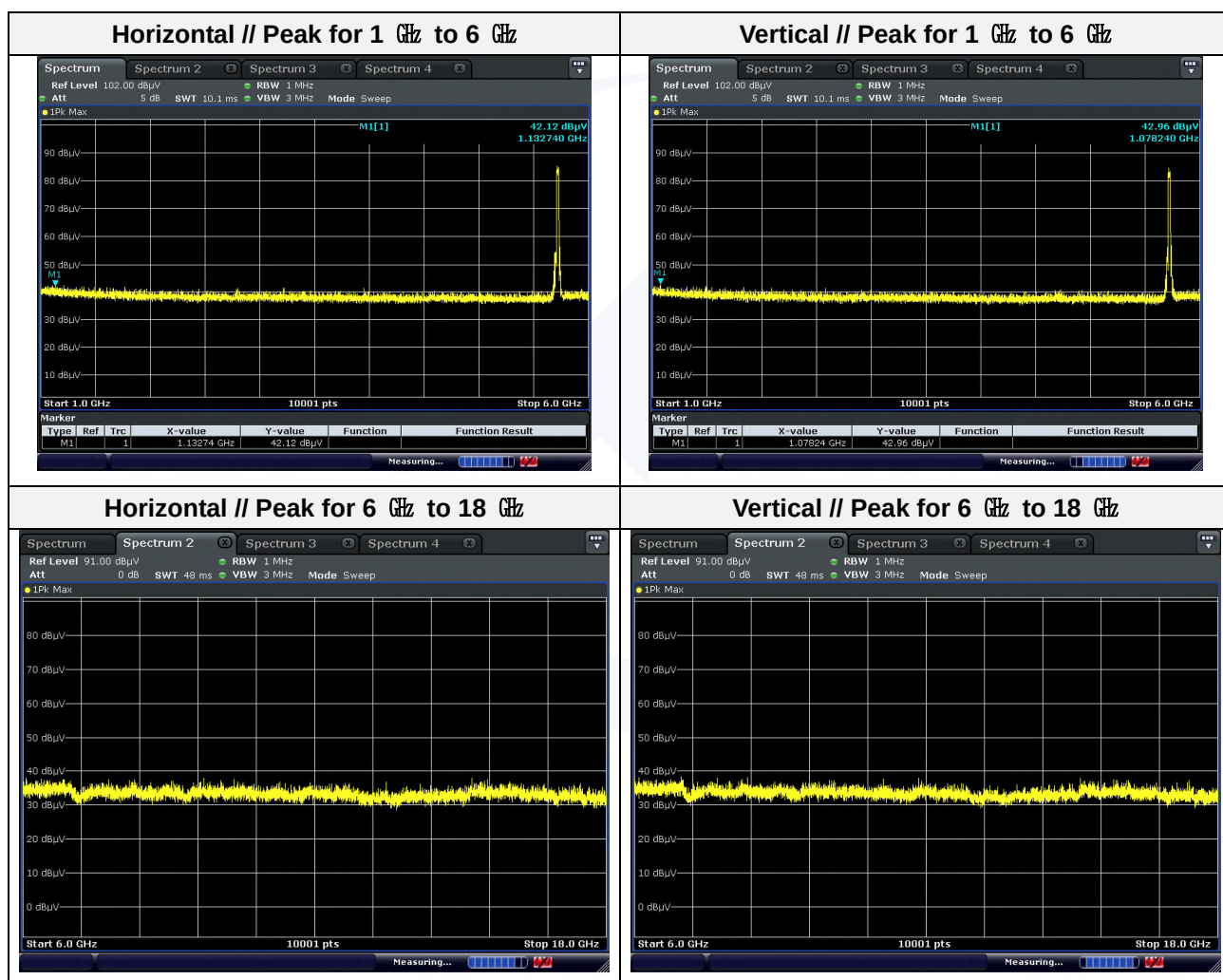
1. No spurious emission were detected above 6 GHz.
2. Average test would be performed if the peak result were greater than the average limit.



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)
1 078.24	42.96	Peak	V	-7.68	-	35.28	74.00	38.72
1 132.74	42.12	Peak	H	-7.36	-	34.76	74.00	39.24



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.



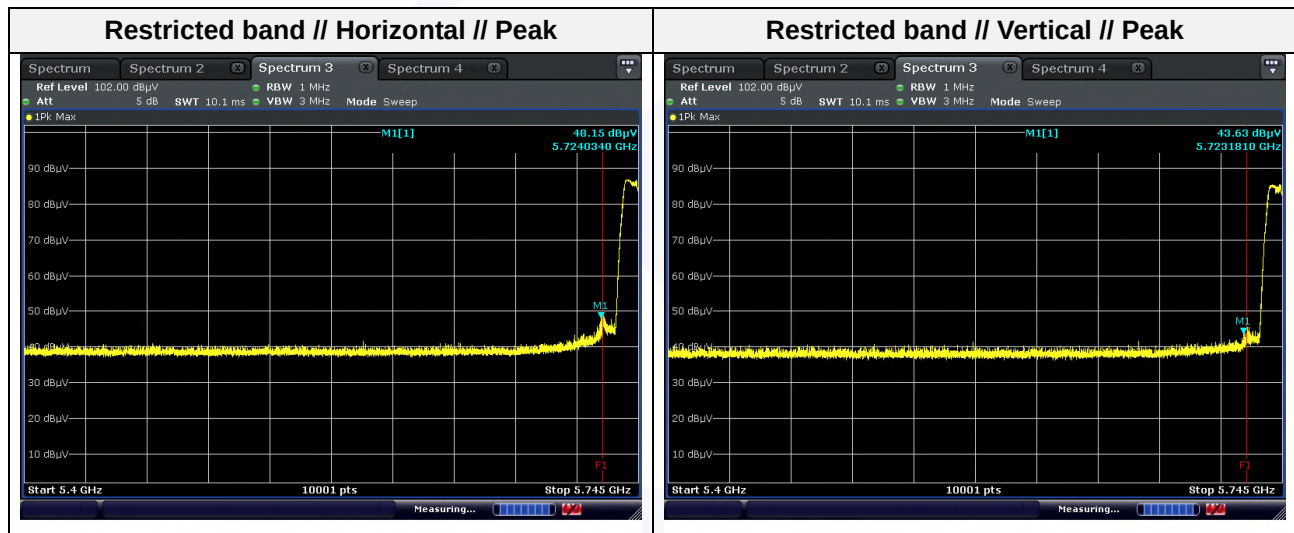
Mode: 802.11a (6 Mbps)
Distance of measurement: 3 meter
Channel: UNII-3 / 149

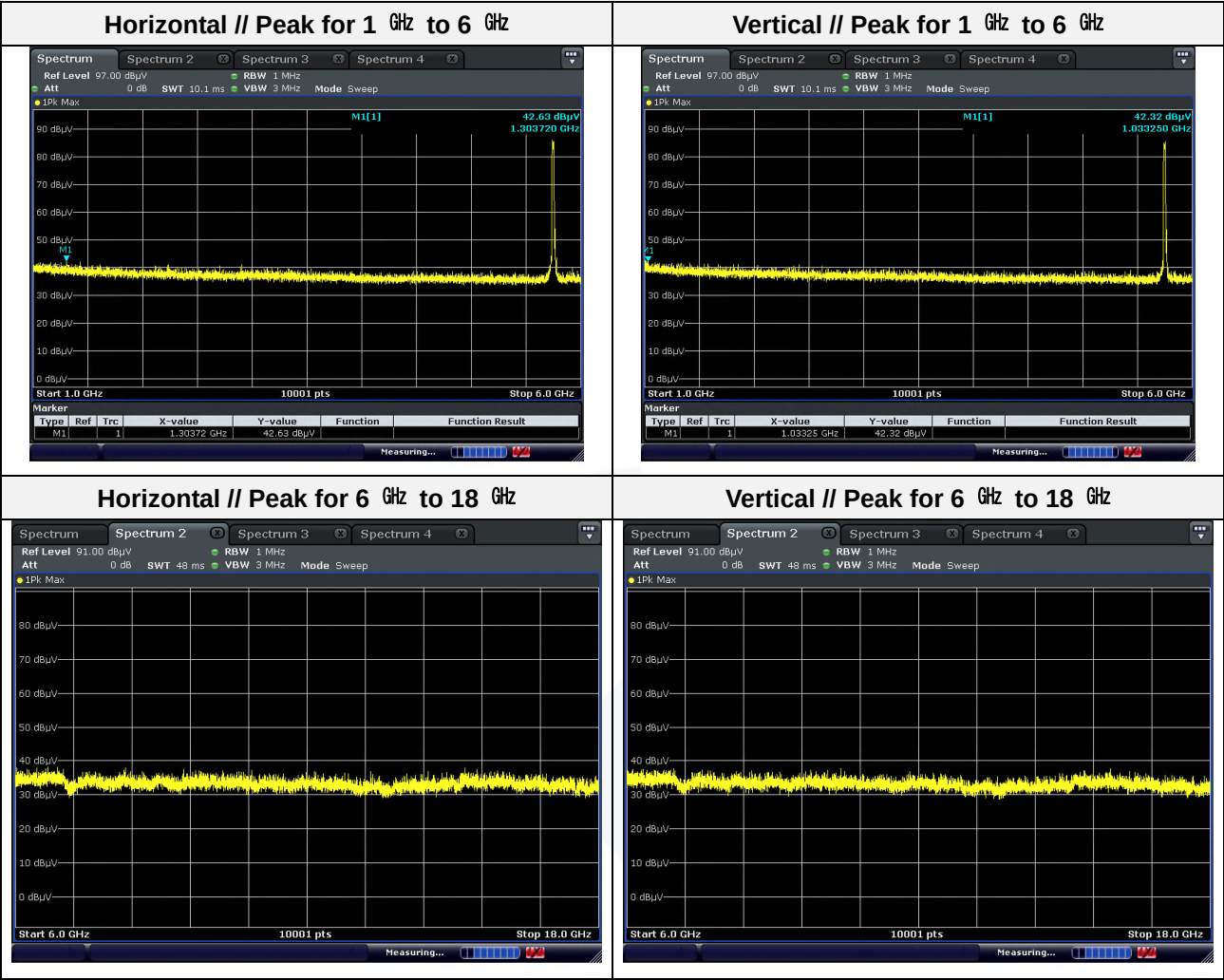
- Spurious

Frequency (MHz)	Level (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)
1 033.25	42.32	Peak	V	-7.95	-	34.37	74.00	39.63
1 303.72	42.63	Peak	H	-6.20	-	36.43	74.00	37.57

- 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)
5 723.18	43.63	Peak	V	8.90	-	52.53	118.08	65.55
5 724.03	48.15	Peak	H	8.91	-	57.06	120.02	62.96





- 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.

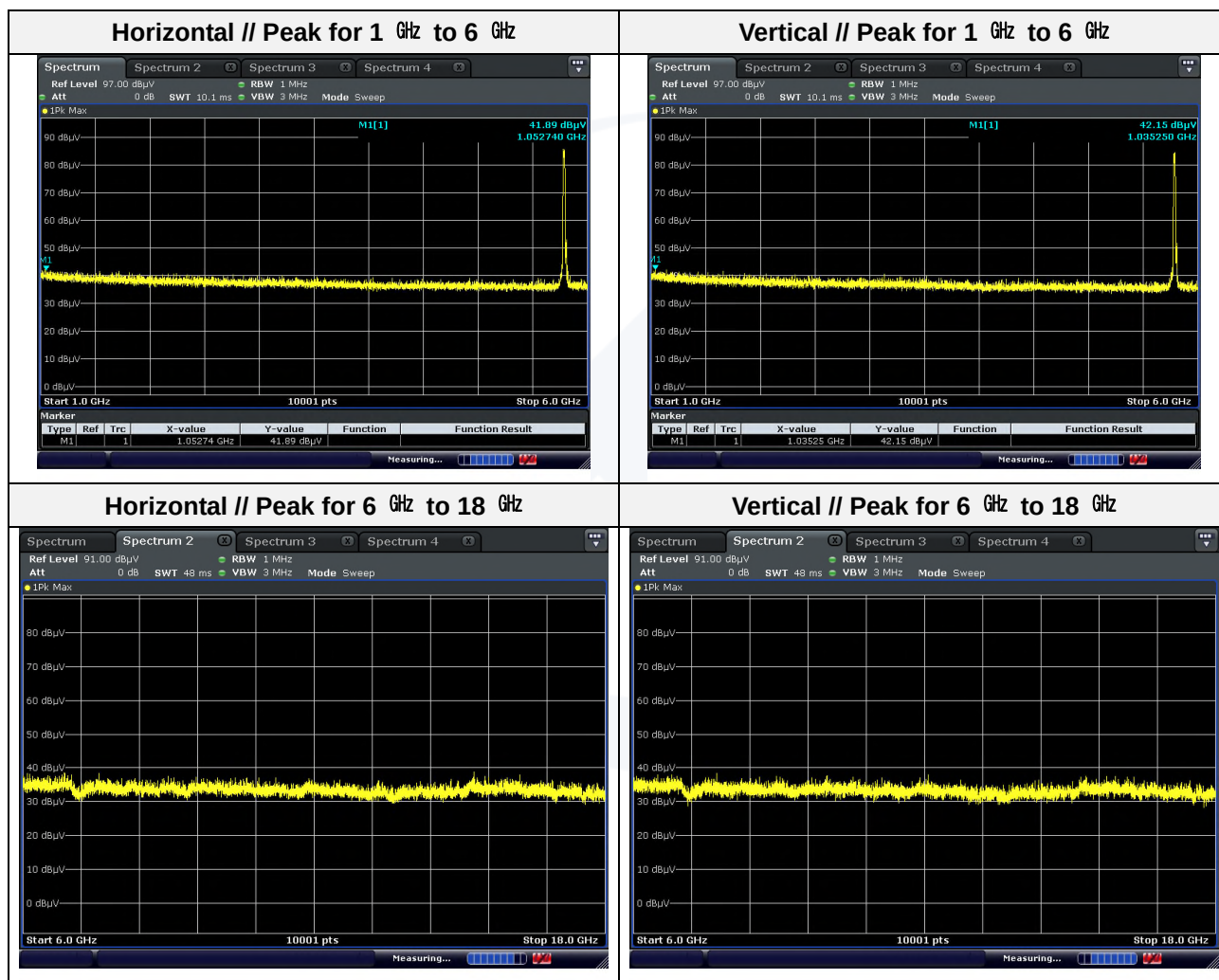


Report No. : KES-RF250775

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)
1 035.25	42.15	Peak	V	-7.94	-	34.21	74.00	39.79
1 052.74	41.89	Peak	H	-7.83	-	34.06	74.00	39.94



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-RF250775

Mode: 802.11a (6 Mbps)

Distance of measurement: 3 meter

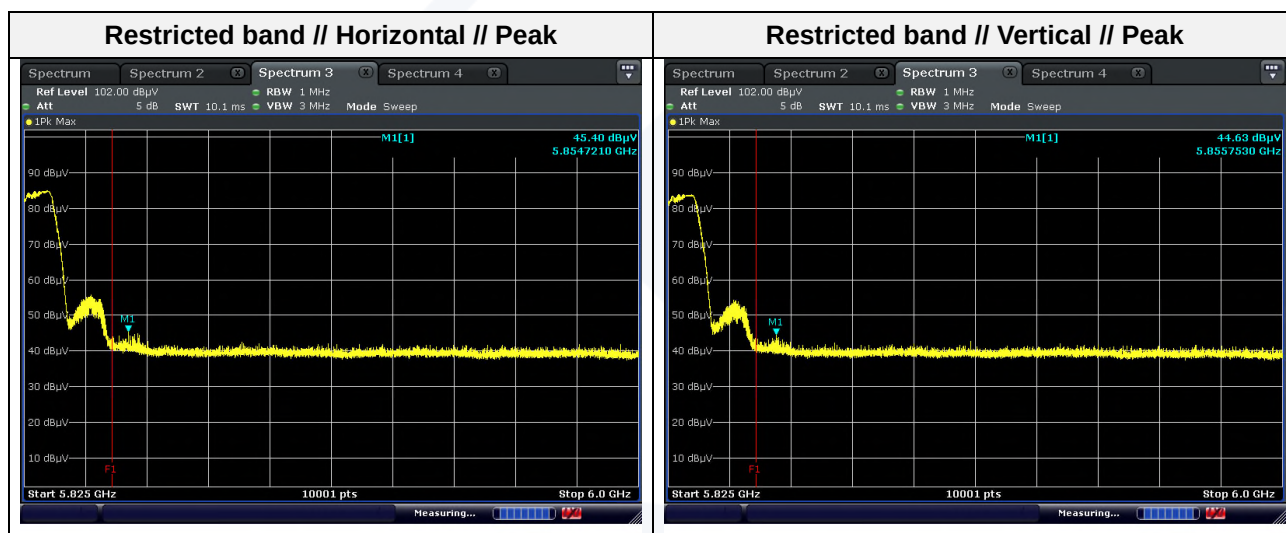
Channel: UNII-3 / 165

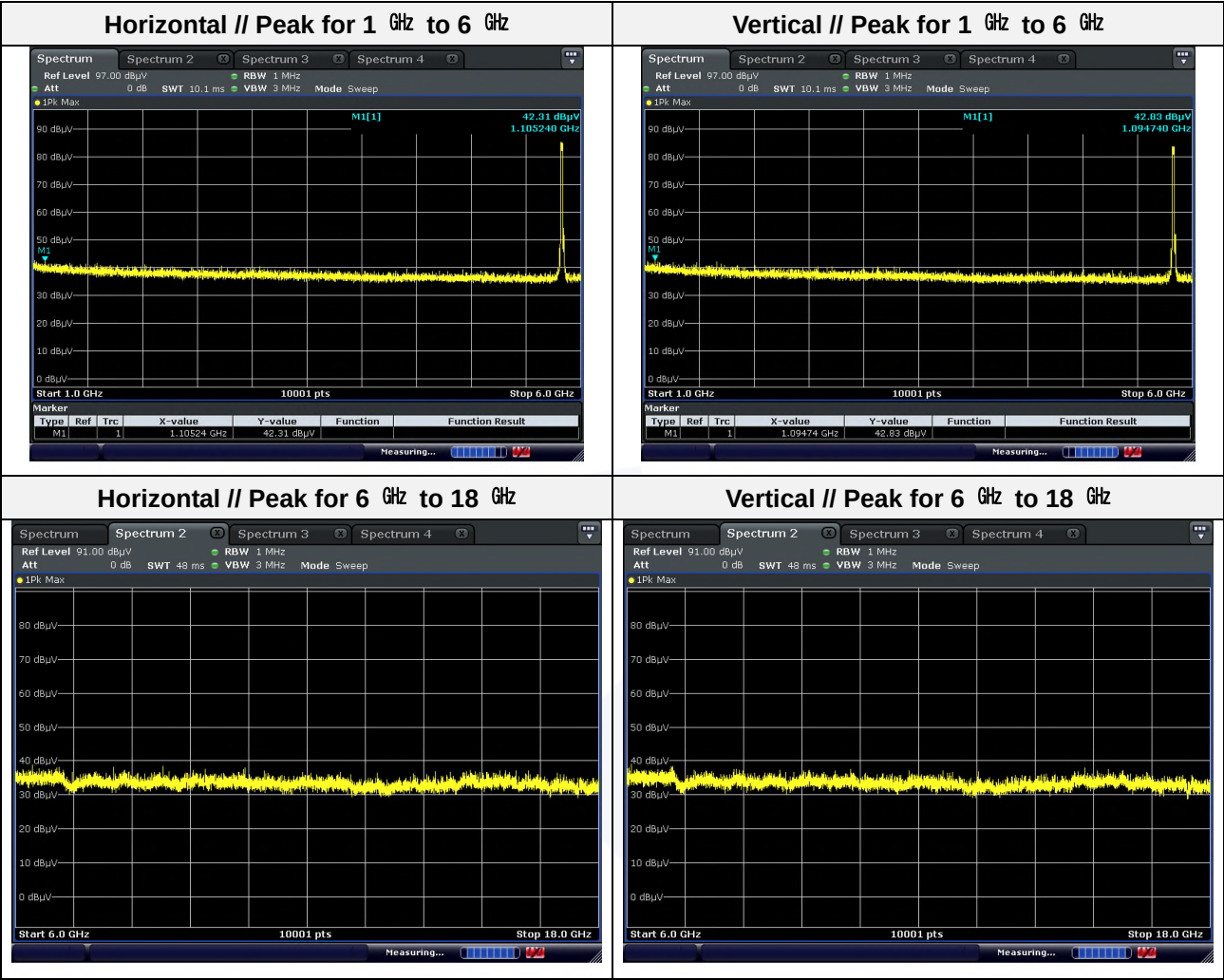
- Spurious

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)
1 094.74	42.83	Peak	V	-7.58	-	35.25	74.00	38.75
1 105.24	42.31	Peak	H	-7.52	-	34.79	74.00	39.21

- 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)
5 854.72	45.40	Peak	H	9.31	-	54.71	111.47	56.76
5 855.75	44.63	Peak	H	9.31	-	53.94	110.62	56.68





- 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-RF250775

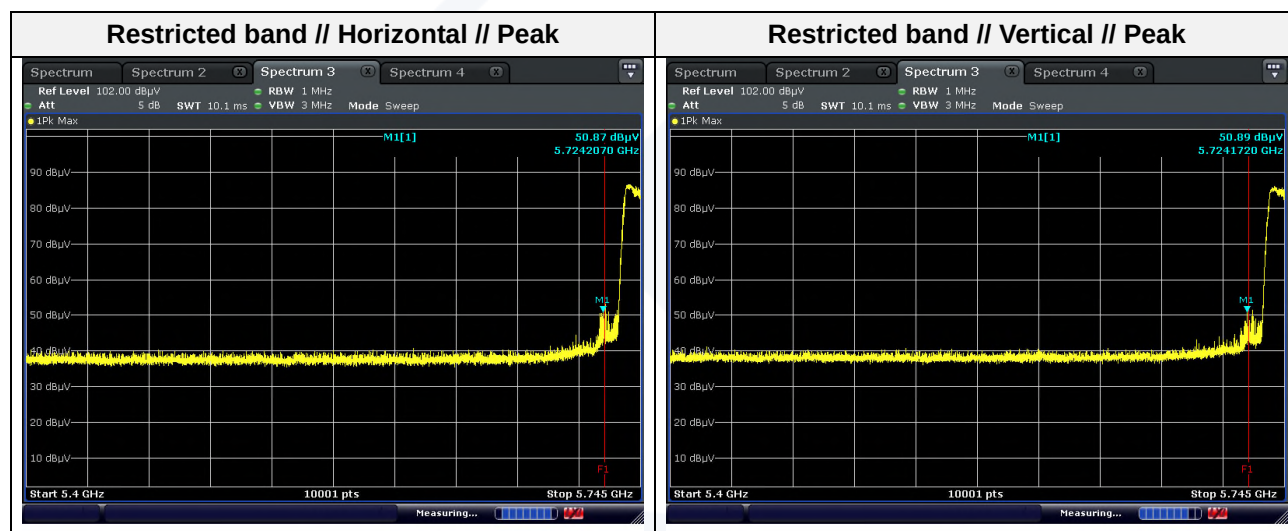
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-3 / 149

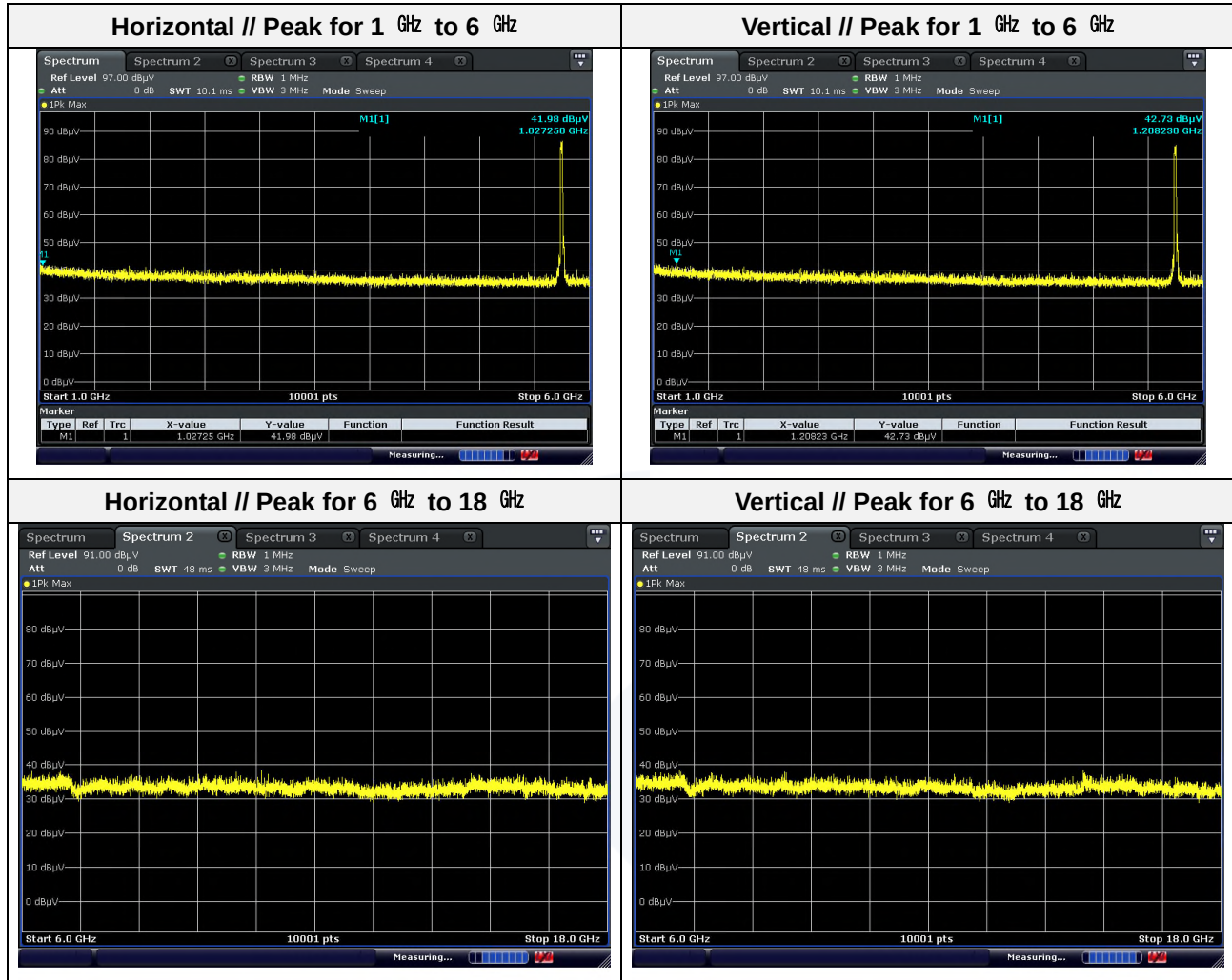
- Spurious

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)
1 027.25	41.98	Peak	H	-7.98	-	34.00	74.00	40.00
1 208.23	42.73	Peak	V	-6.90	-	35.83	74.00	38.17

- 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)
5 724.17	50.89	Peak	V	8.91	-	59.80	120.34	60.54
5 724.21	50.87	Peak	H	8.91	-	59.78	120.43	60.65





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.

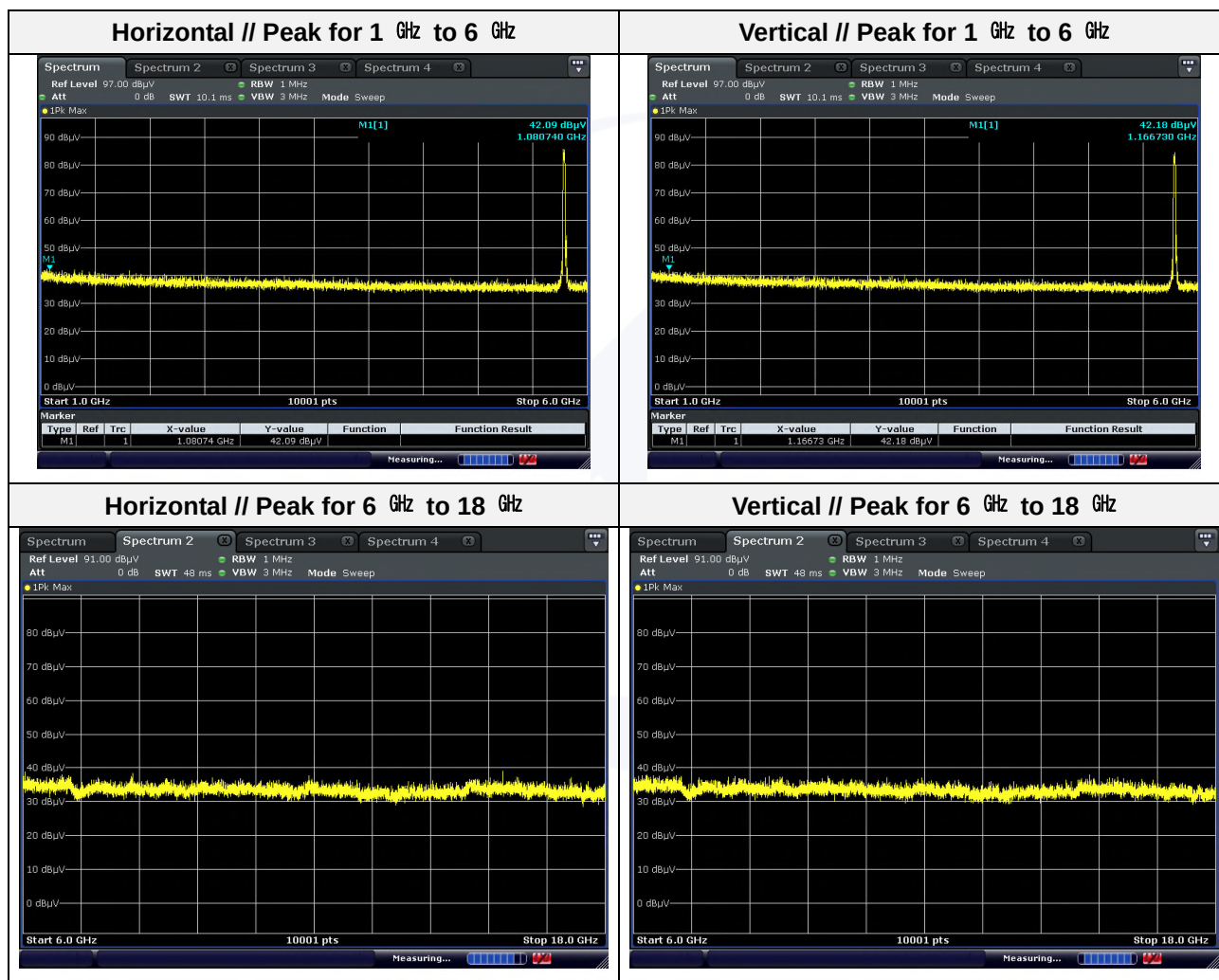


Report No. : KES-RF250775

Mode: 802.11n_HT20 (MCS 0)
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)
1 080.74	42.09	Peak	H	-7.66	-	34.43	74.00	39.57
1 166.73	42.18	Peak	V	-7.15	-	35.03	74.00	38.97



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-RF250775

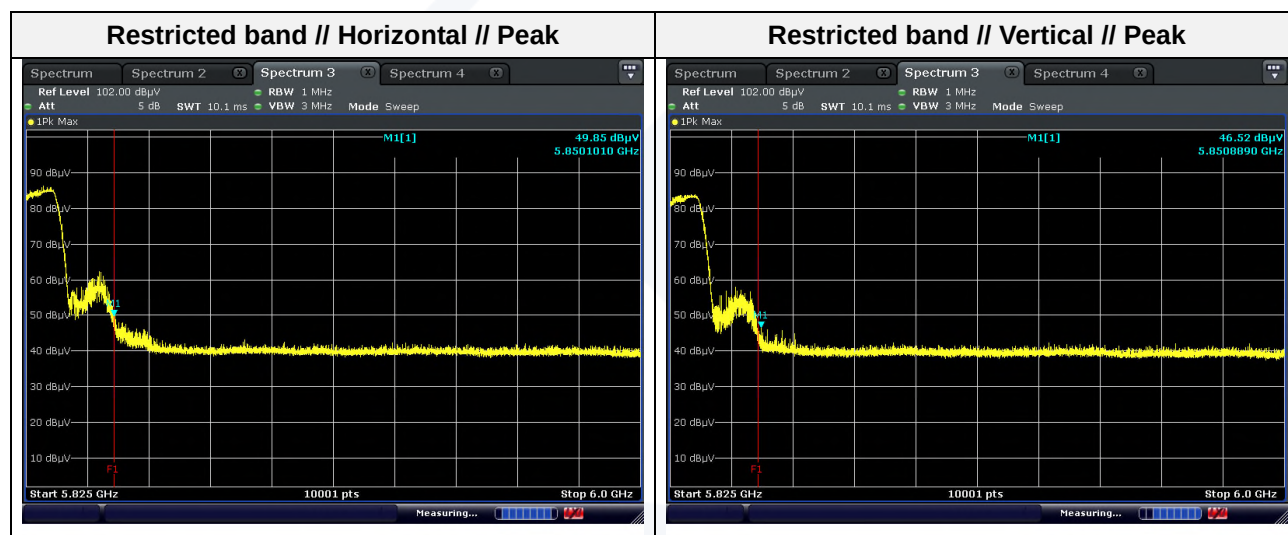
Mode: 802.11n_HT20 (MCS 0)
Distance of measurement: 3 meter
Channel: UNII-3 / 165

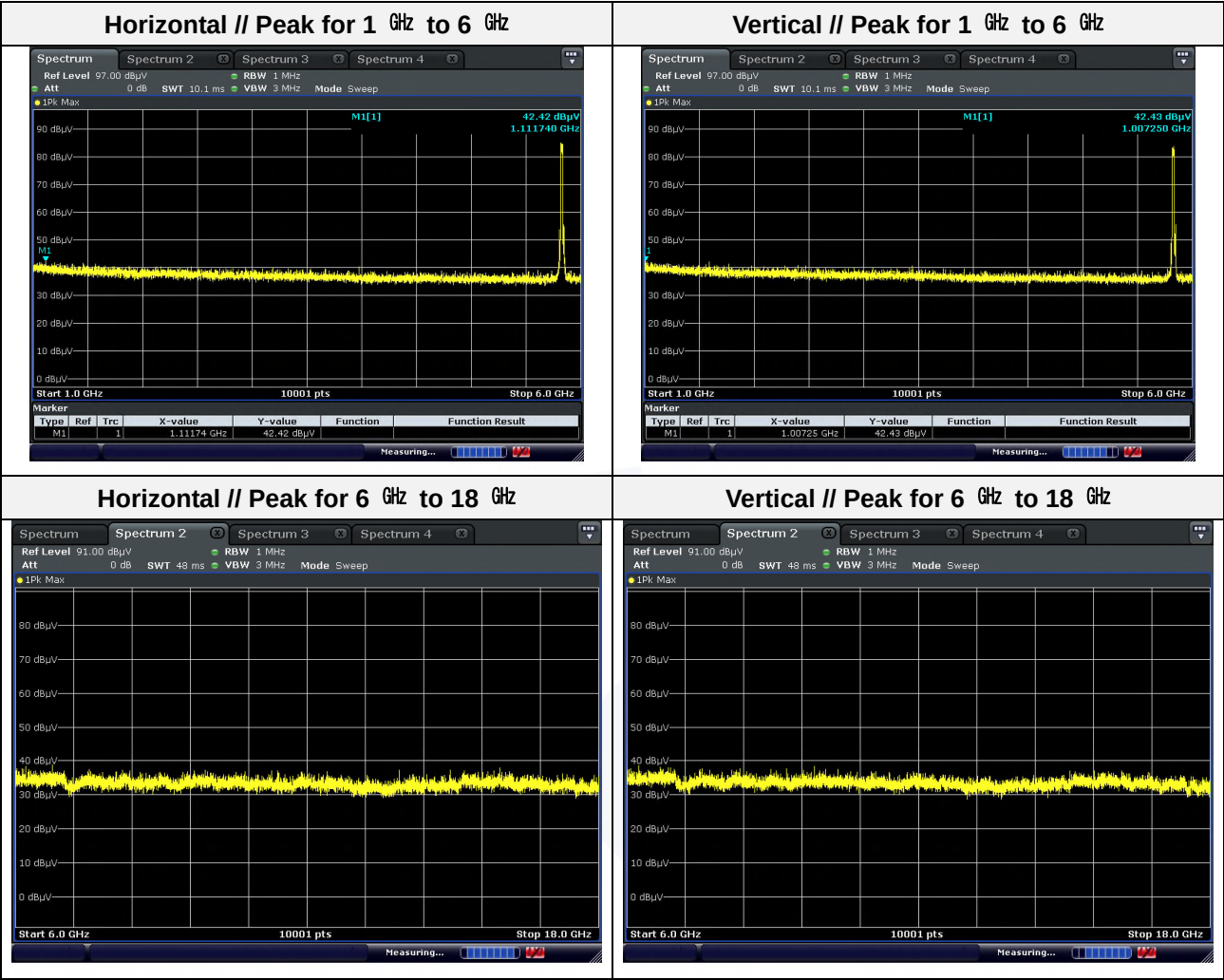
- Spurious

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)
1 007.25	42.43	Peak	V	-8.10	-	34.33	74.00	39.67
1 111.74	42.42	Peak	H	-7.48	-	34.94	74.00	39.06

- 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)
5 850.10	49.85	Peak	H	9.29	-	59.14	122.00	62.86
5 850.89	46.52	Peak	V	9.30	-	55.82	120.20	64.38





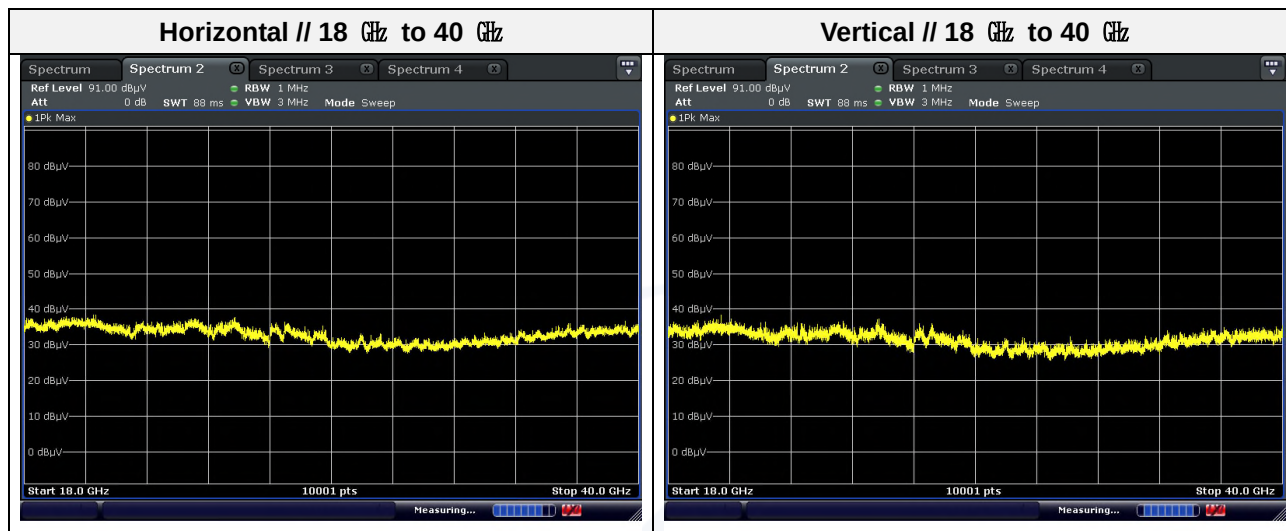
- Note.
1. No spurious emission were detected above 6 GHz.
 2. Average test would be performed if the peak result were greater than the average limit.

**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



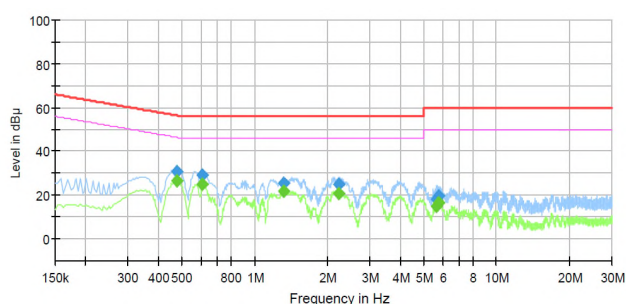
Test results

Mode: 802.11a (6 Mbps) (Worst case)

Band: UNII-3

Channel: 149 (Worst Case)

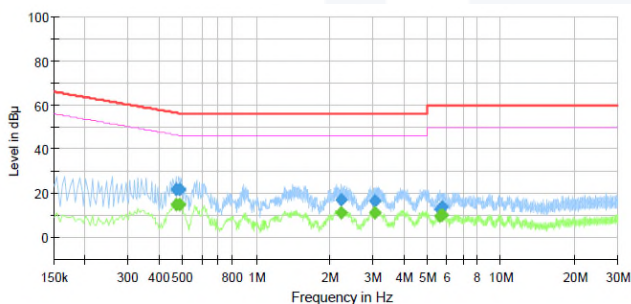
Hot Line



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.478000	30.49	---	56.37	25.88	1000.0	9.000	L1	19.7
0.478000	---	26.27	46.37	20.10	1000.0	9.000	L1	19.7
0.610000	---	25.04	46.00	20.96	1000.0	9.000	L1	19.7
0.610000	26.89	---	56.00	27.11	1000.0	9.000	L1	19.7
1.318000	---	21.70	46.00	24.30	1000.0	9.000	L1	19.8
1.318000	25.42	---	56.00	30.58	1000.0	9.000	L1	19.8
2.222000	---	20.87	46.00	25.13	1000.0	9.000	L1	19.8
2.222000	24.79	---	56.00	31.21	1000.0	9.000	L1	19.8
5.634000	---	14.90	50.00	35.10	1000.0	9.000	L1	20.2
5.634000	18.26	---	60.00	41.74	1000.0	9.000	L1	20.2
5.766000	---	16.19	50.00	33.81	1000.0	9.000	L1	20.2
5.766000	19.67	---	60.00	40.33	1000.0	9.000	L1	20.2

Neutral Line



Final_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.470000	---	14.84	46.51	31.67	1000.0	9.000	N	19.6
0.470000	21.79	---	56.51	34.72	1000.0	9.000	N	19.6
0.486000	---	14.67	46.24	31.57	1000.0	9.000	N	19.6
0.486000	21.74	---	56.24	34.50	1000.0	9.000	N	19.6
2.222000	---	11.36	46.00	34.64	1000.0	9.000	N	19.7
2.222000	17.19	---	56.00	38.81	1000.0	9.000	N	19.7
3.070000	---	11.39	46.00	34.61	1000.0	9.000	N	19.8
3.070000	16.49	---	56.00	39.51	1000.0	9.000	N	19.8
5.654000	---	9.67	50.00	40.33	1000.0	9.000	N	20.1
5.654000	12.95	---	60.00	47.05	1000.0	9.000	N	20.1
5.786000	---	10.19	50.00	39.81	1000.0	9.000	N	20.1
5.786000	13.71	---	60.00	46.29	1000.0	9.000	N	20.1



3.3. Antenna Requirement

According to 15.207(a), 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
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2026.04.16
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2026.04.21
LOOP ANTENNA	TESEQ	HLA6121	66547	2 years	2026.01.22
TRILOG-BROADBAND ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2026.04.19
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2026.02.13
Horn Antenna	A.H.	SAS-571	414	1 year	2026.01.13
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2026.01.13
Amplifier	SONOMA INSTRUMENT	310N	401123	1 year	2026.02.13
PREAMPLIFIER	HP	8449B	3008A00899	1 year	2026.03.05
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2026.01.09
DC Power Supply	Agilent	6632B	MY43004090	1 year	2026.06.12
EMI Test Receiver	R&S	ESR7	101190	1 year	2026.04.30
BAND REJECT FILTER	MICRO-TRONICS	BRM50716	G199	1 year	2026.01.08
EMI Test Receiver	R&S	ESR3	101783	1 year	2026.11.03
PULSE LIMITER	R&S	ESH2-Z2	101915	1 year	2026.11.03
LISN	R&S	ENV216	101786	1 year	2026.01.09
Cable (SR #6)	RG 400	-	-	0.5 year	2026.01.25
Cable (SAC #5)	SUCOFLEX106	HUBER_SUHNER	-	0.5 year	2026.01.25
	SUCOFLEX106	HUBER_SUHNER	-		
	LH21D/2xSMA	OSI Cable	-		
Cable (SAC #6)	TCLH21D-SMSM-2.5M 0222	OSI Cable	-	0.5 year	2026.01.25
	TCLH21D-NMNM-10.0M 0222	OSI Cable	-		
	TCLH21D-SMSM-7.0M 0222	OSI Cable	-		

* 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

The End.