

**KES Co., Ltd.**

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Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea
Tel: +82-31-425-6200 / Fax: +82-31-424-0450
www.kes.co.kr

Report No.:

KES-RF1-22T0071

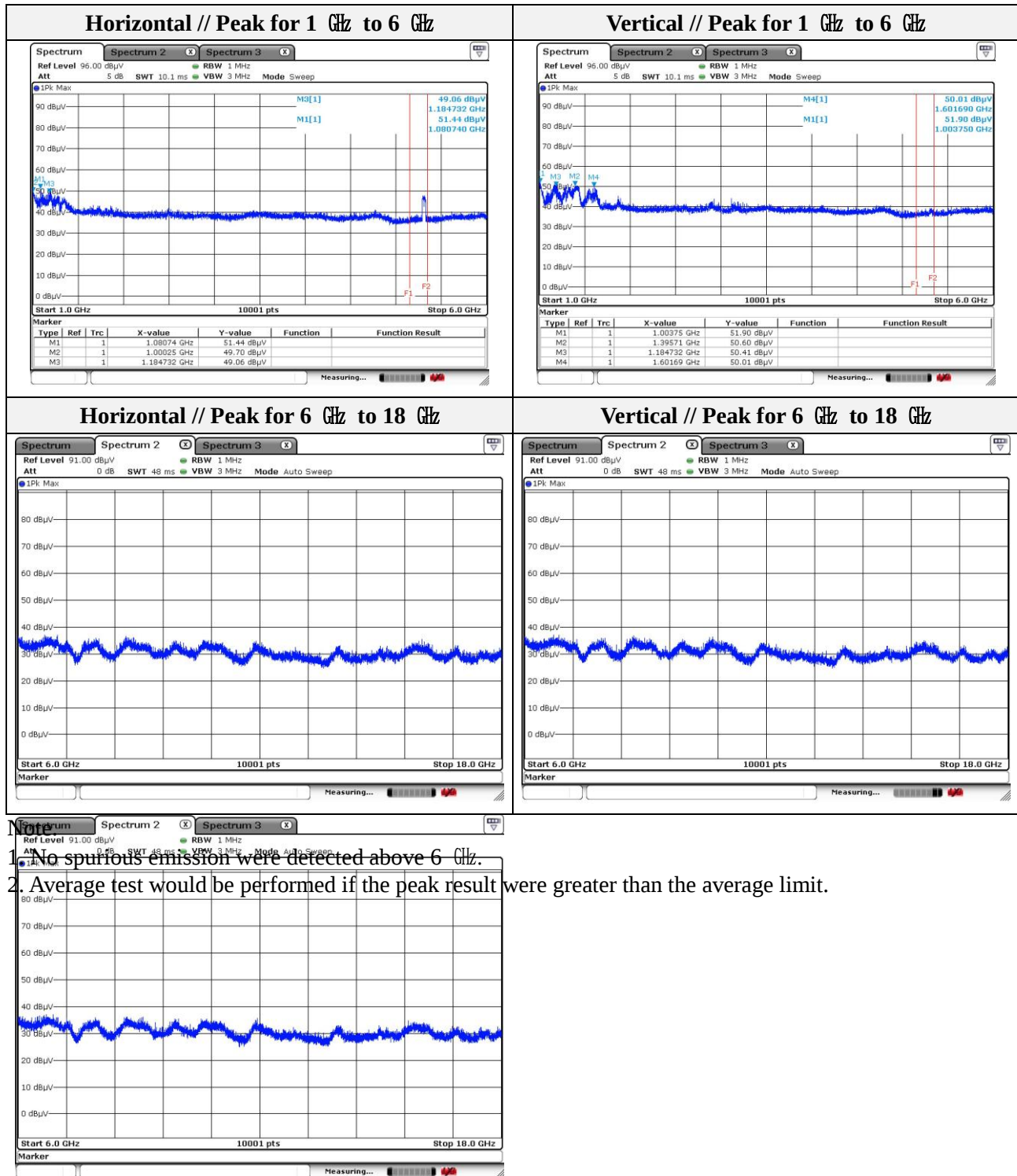
Page (139) of (214)

Mode: 802.11an_HT40
Band: UNII-2A
Distance of measurement: 3 meter
Channel: 62

- 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)
1000.25	49.70	Peak	H	-9.44	-	40.26	74.00	33.74
1003.75	51.90	Peak	V	-9.44	-	42.46	74.00	31.54
1080.74	51.44	Peak	H	-9.36	-	42.08	74.00	31.92
1184.73	49.06	Peak	H	-9.25	-	39.81	74.00	34.19
1184.73	50.41	Peak	V	-9.25	-	41.16	74.00	32.84
1395.71	50.60	Peak	V	-8.97	-	41.63	74.00	32.37
1601.69	50.01	Peak	V	-4.93	-	45.08	74.00	28.92

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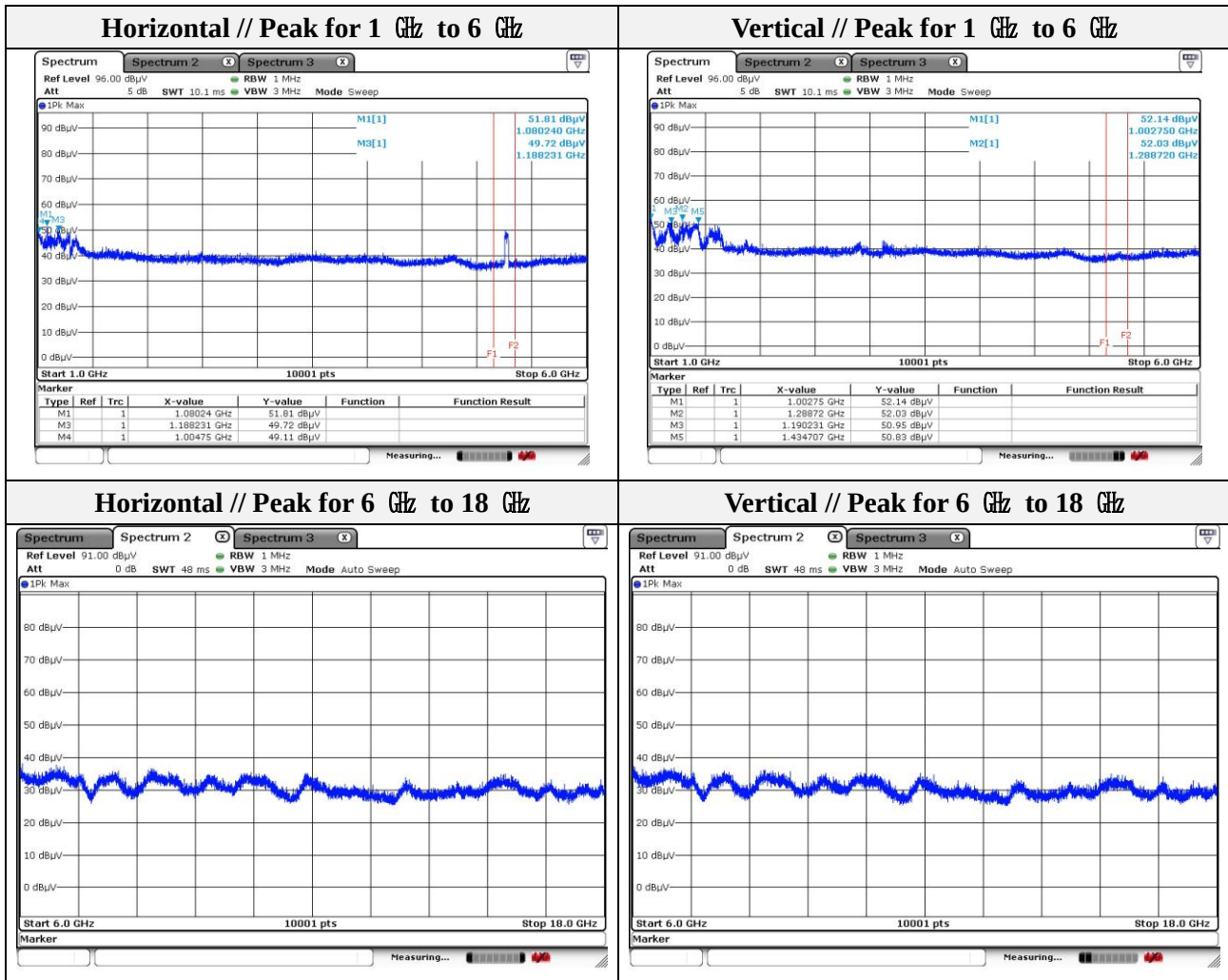


Mode: 802.11ac_HT40
Band: UNII-1
Distance of measurement: 3 meter
Channel: 54

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 002.75	52.14	Peak	V	-9.44	-	42.70	74.00	31.30
1 004.75	49.11	Peak	H	-9.44	-	39.67	74.00	34.33
1 080.24	51.81	Peak	H	-9.37	-	42.44	74.00	31.56
1 188.23	49.72	Peak	H	-9.25	-	40.47	74.00	33.53
1 190.23	50.95	Peak	V	-9.25	-	41.70	74.00	32.30
1 288.72	52.03	Peak	V	-9.11	-	42.92	74.00	31.08
1 434.71	50.83	Peak	V	-8.96	-	41.87	74.00	32.13

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Note.

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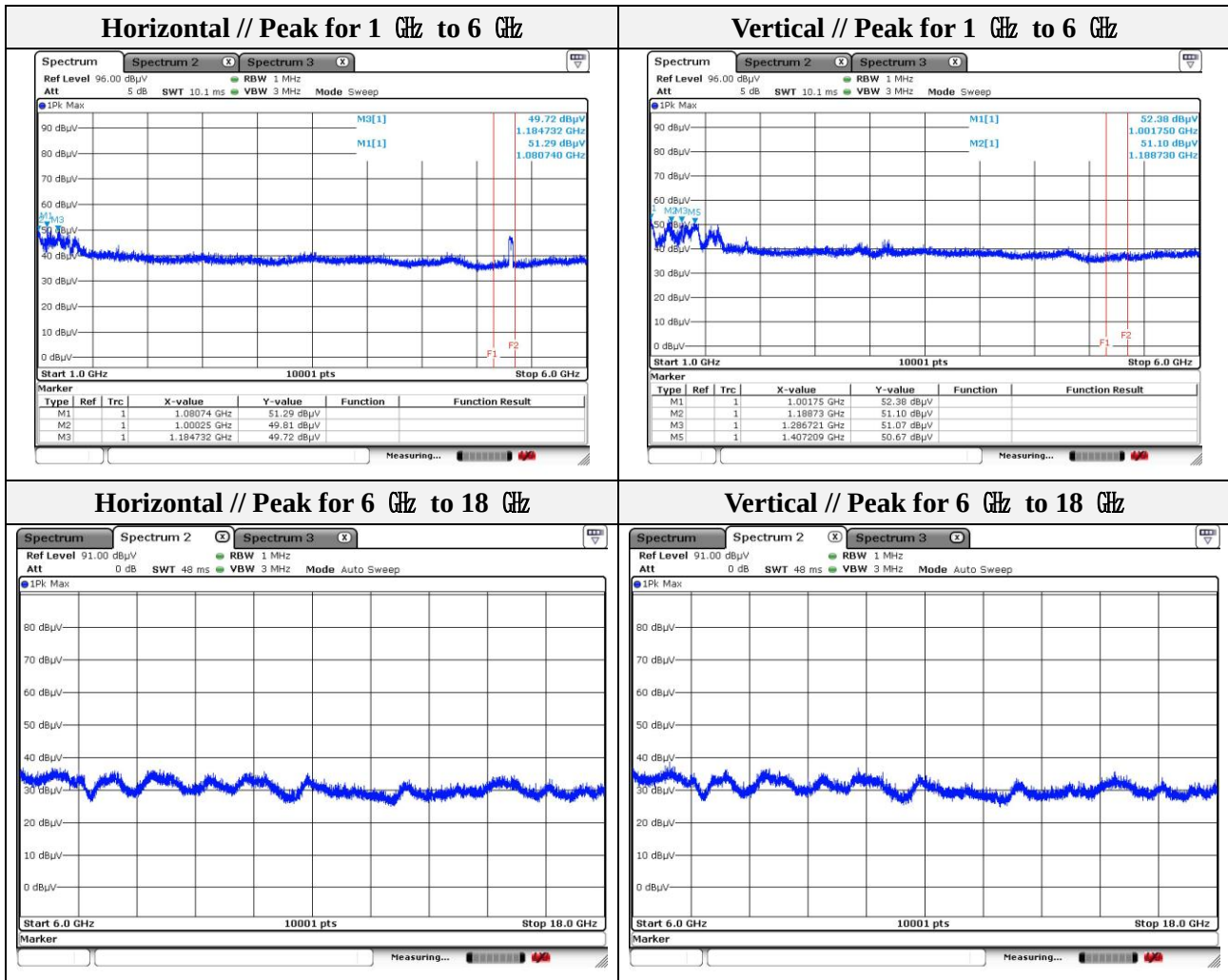
Page (143) of (214)

Mode: 802.11ac_HT40
Band: UNII-1
Distance of measurement: 3 meter
Channel: 62

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	49.81	Peak	H	-9.44	-	40.37	74.00	33.63
1 001.75	52.38	Peak	V	-9.45	-	42.93	74.00	31.07
1 080.74	51.29	Peak	H	-9.36	-	41.93	74.00	32.07
1 184.73	49.72	Peak	H	-9.25	-	40.47	74.00	33.53
1 188.73	51.10	Peak	V	-9.25	-	41.85	74.00	32.15
1 286.72	51.07	Peak	V	-9.12	-	41.95	74.00	32.05
1 407.21	50.67	Peak	V	-8.96	-	41.71	74.00	32.29

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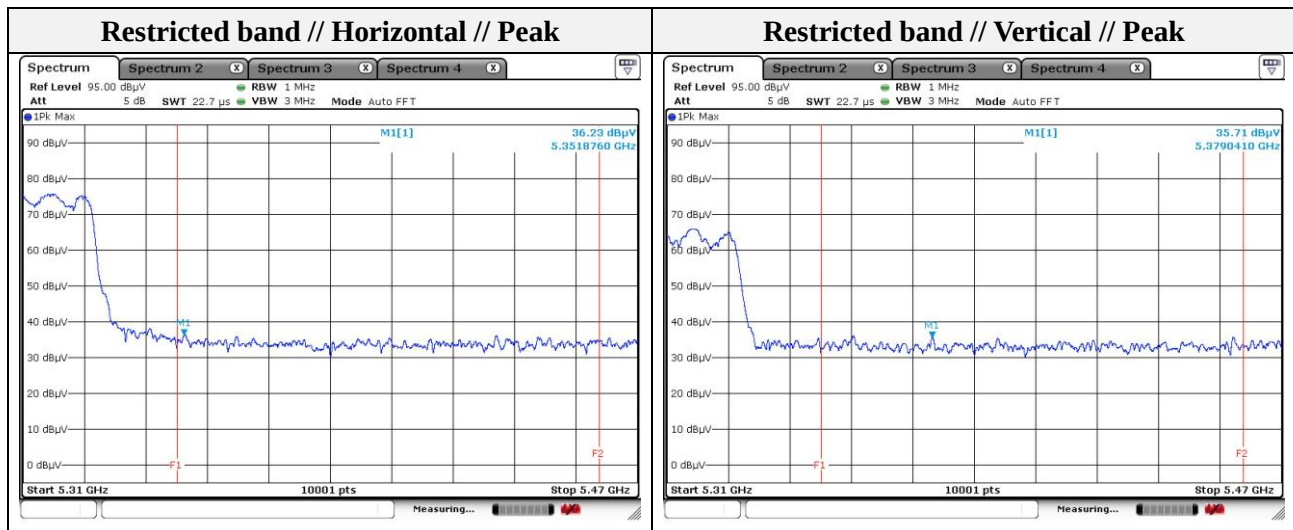
Mode: 802.11ac_HT80
 Band: UNII-2A
 Distance of measurement: 3 meter
 Channel: 58

- Spurious

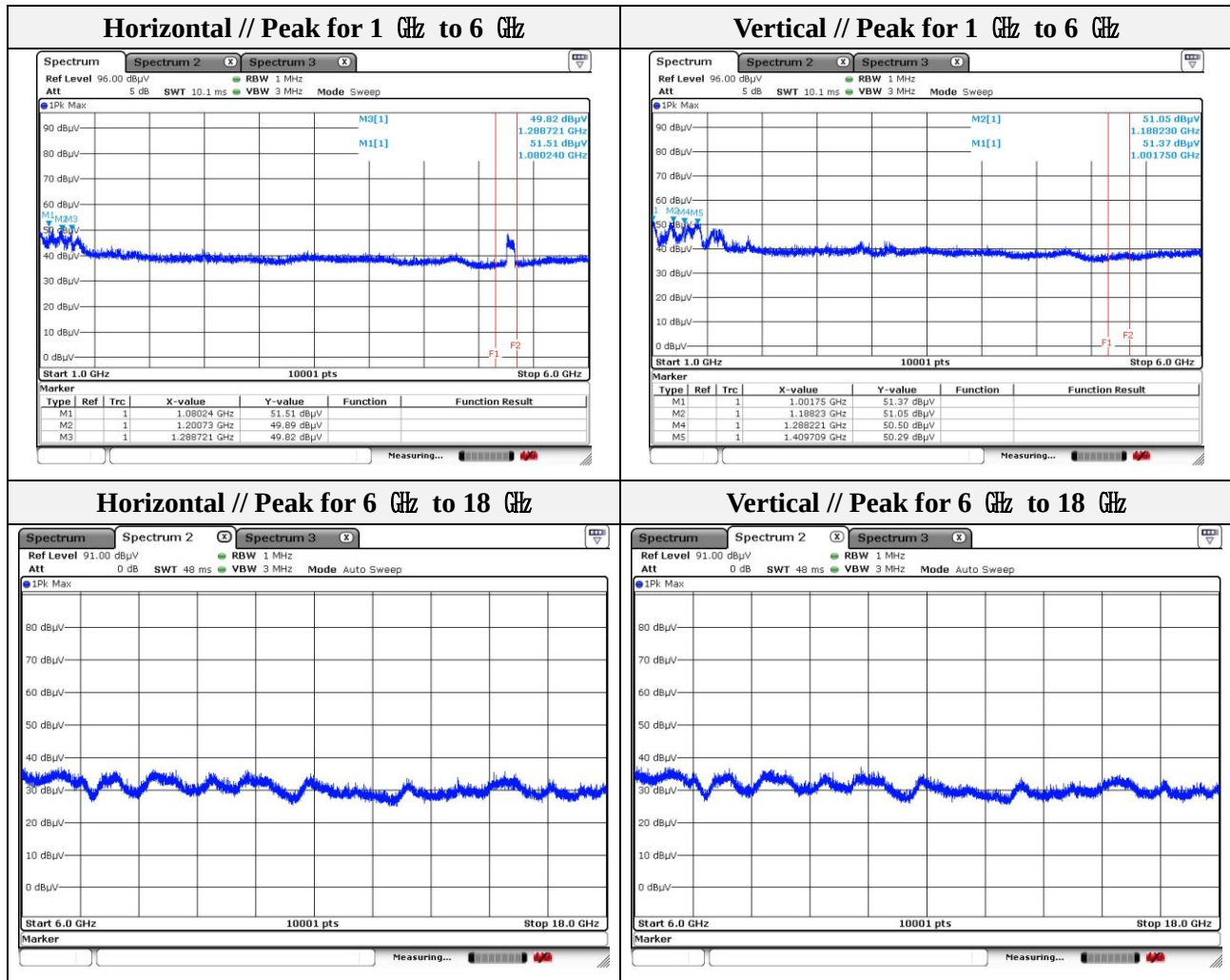
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.75	51.37	Peak	V	-9.45	-	41.92	74.00	32.08
1 080.24	51.51	Peak	H	-9.37	-	42.14	74.00	31.86
1 188.23	51.05	Peak	V	-9.25	-	41.80	74.00	32.20
1 200.73	49.89	Peak	H	-9.24	-	40.65	74.00	33.35
1 288.72	49.82	Peak	H	-9.11	-	40.71	74.00	33.29
1 288.22	50.50	Peak	V	-9.11	-	41.39	74.00	32.61
1 409.71	50.29	Peak	V	-8.96	-	41.33	74.00	32.67

- 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)
5 351.88	36.23	Peak	H	7.25	-	43.48	74.00	30.52
5 379.04	35.71	Peak	V	7.18	-	42.89	74.00	31.11



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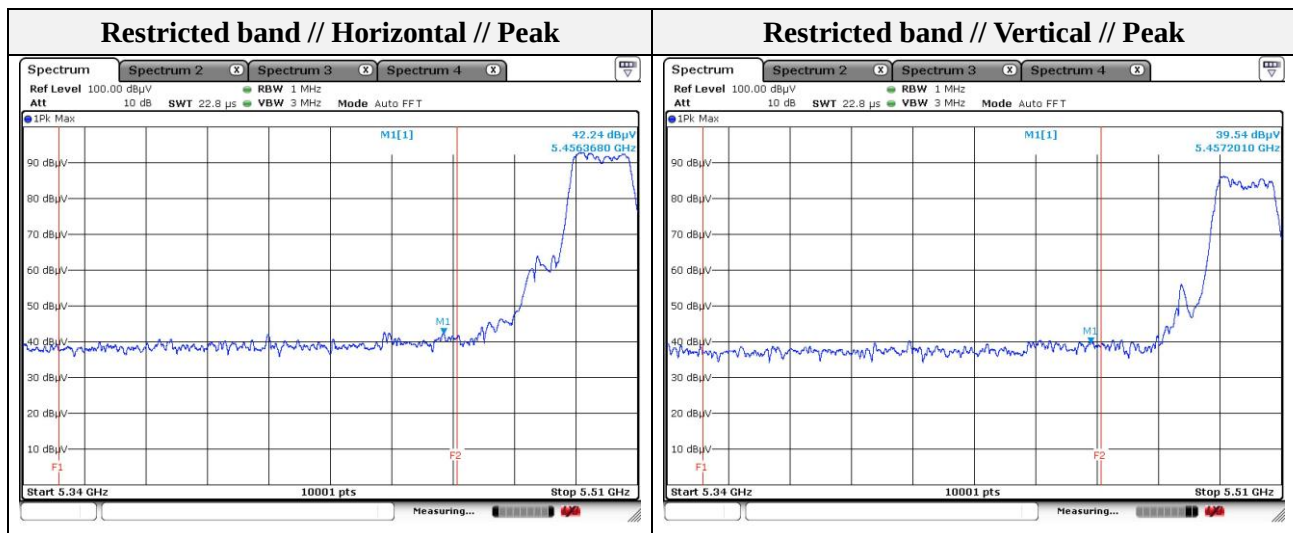
Mode: 802.11a
 Band: UNII-2C
 Distance of measurement: 3 meter
 Channel: 100

- **Spurious**

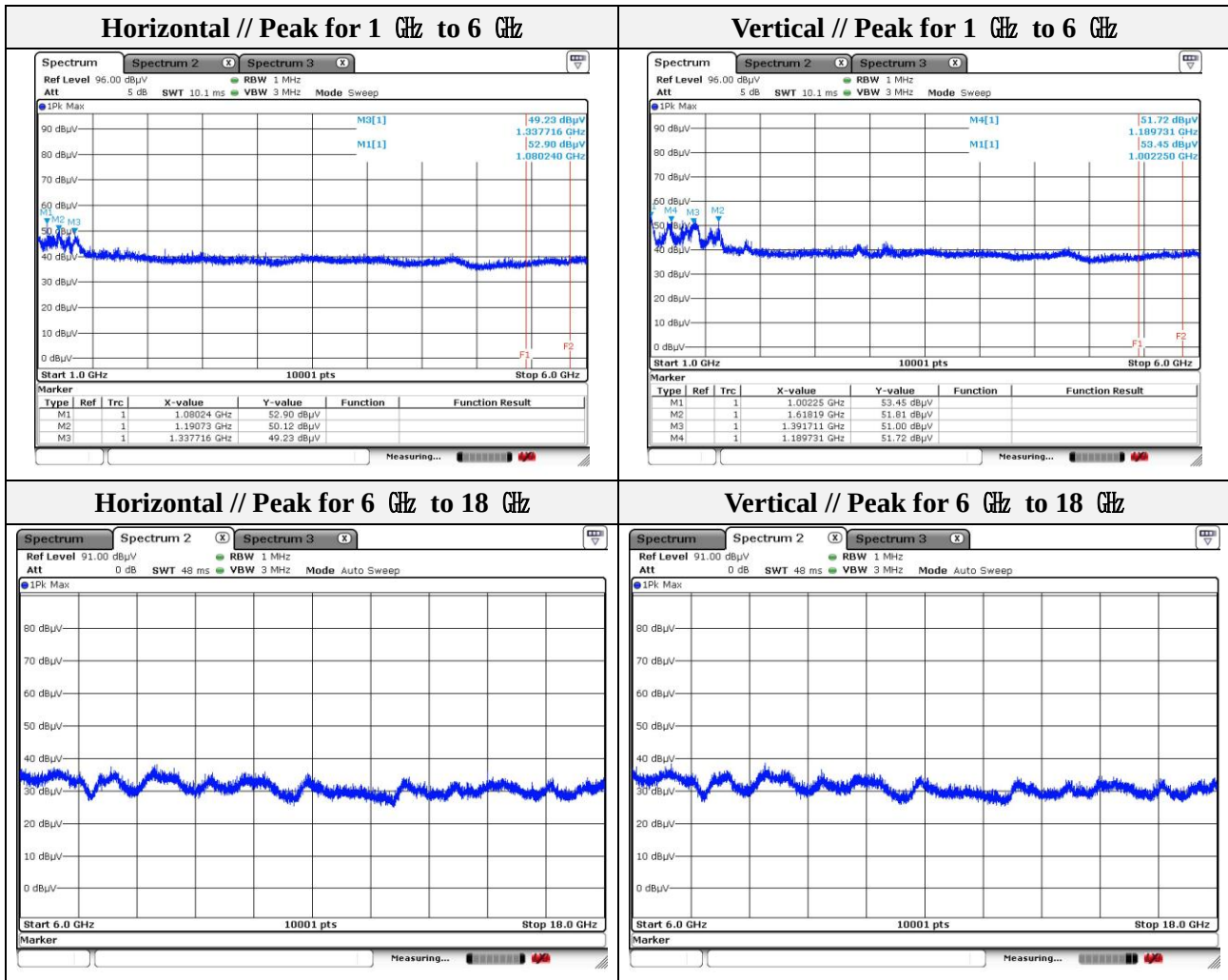
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 002.25	53.45	Peak	V	-9.44	-	44.01	74.00	29.99
1 080.24	52.90	Peak	H	-9.37	-	43.53	74.00	30.47
1 189.73	51.72	Peak	V	-9.25	-	42.47	74.00	31.53
1 190.73	50.12	Peak	H	-9.25	-	40.87	74.00	33.13
1 337.72	49.23	Peak	H	-9.04	-	40.19	74.00	33.81
1 391.71	51.00	Peak	V	-8.97	-	42.03	74.00	31.97
1 618.19	51.81	Peak	V	-4.64	-	47.17	74.00	26.83

- **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)
5 456.37	42.24	Peak	H	7.16	-	49.40	74.00	24.60
5 457.20	39.54	Peak	V	7.16	-	46.70	74.00	27.30



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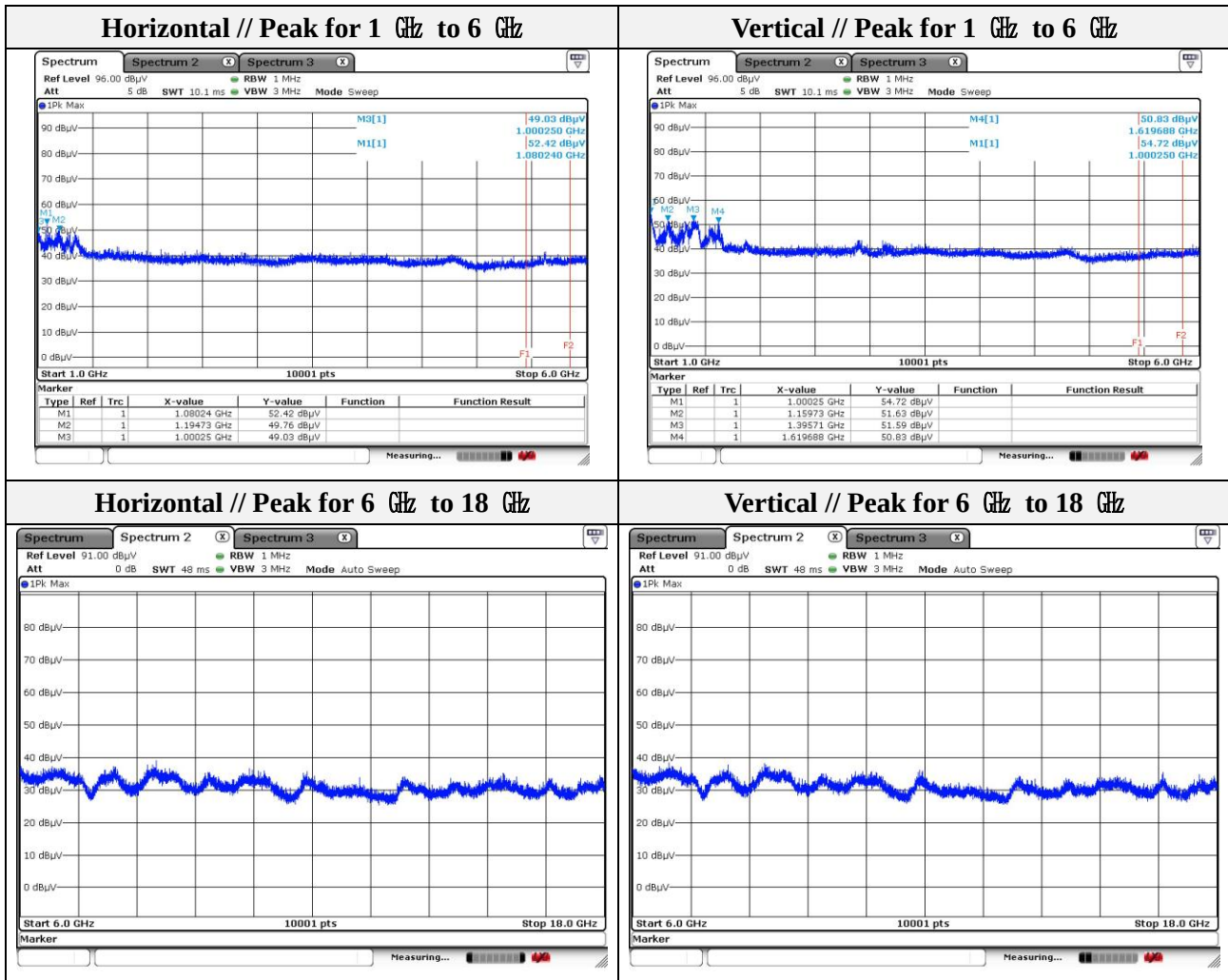


Mode: 802.11a
Band: UNII-1
Distance of measurement: 3 meter
Channel: 124

- **Spurious**

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	54.72	Peak	V	-9.44	-	45.28	74.00	28.72
1 000.25	49.03	Peak	H	-9.44	-	39.59	74.00	34.41
1 080.24	52.42	Peak	H	-9.37	-	43.05	74.00	30.95
1 194.73	49.76	Peak	H	-9.24	-	40.52	74.00	33.48
1 159.73	51.63	Peak	V	-9.28	-	42.35	74.00	31.65
1 395.71	51.59	Peak	V	-8.97	-	42.62	74.00	31.38
1 619.69	50.83	Peak	V	-4.62	-	46.21	74.00	27.79

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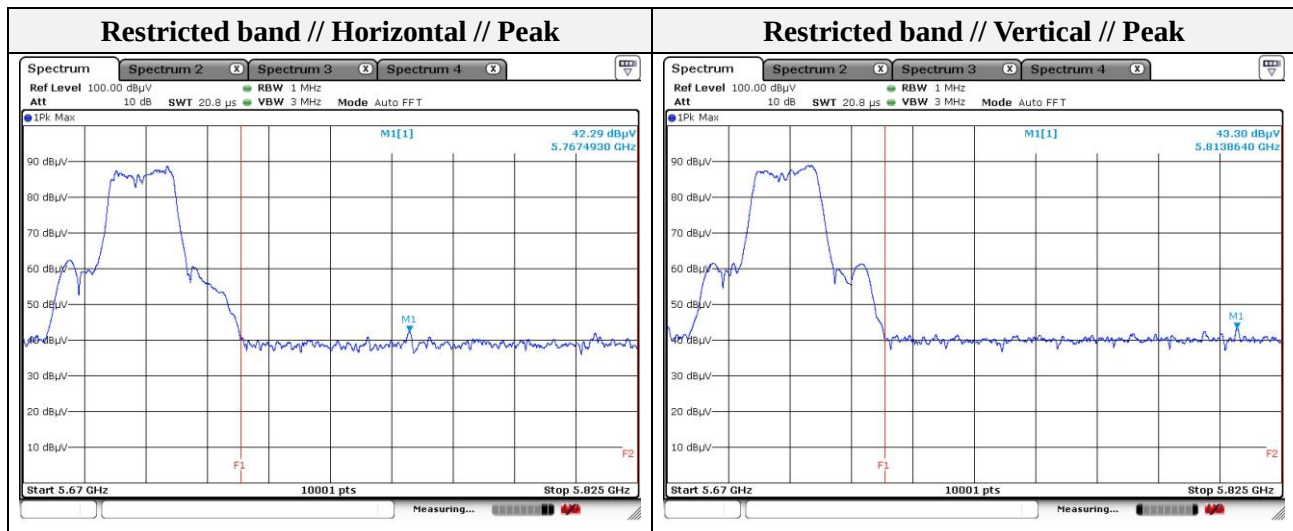
Mode: 802.11a
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 140

- Spurious

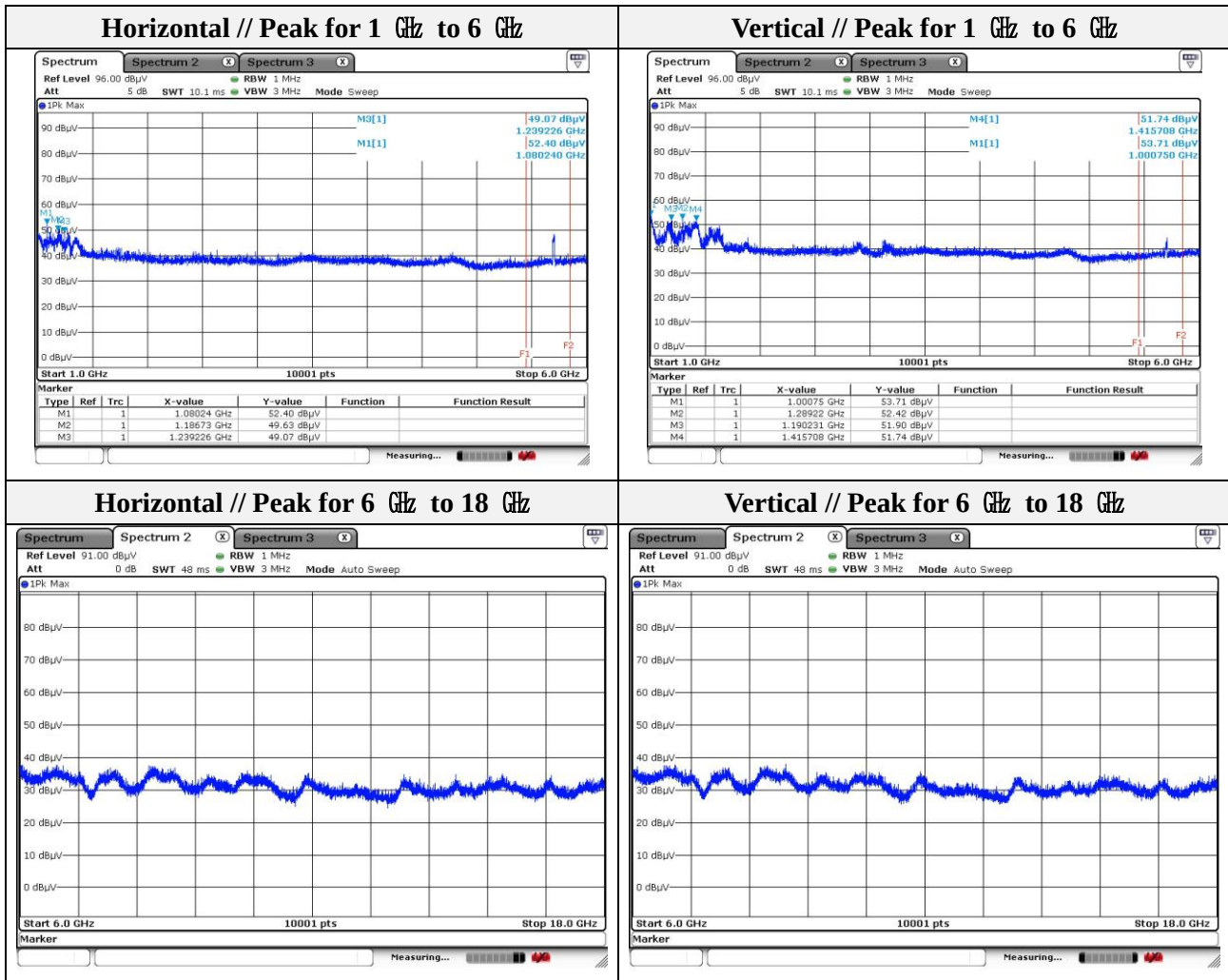
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.75	53.71	Peak	V	-9.44	-	44.27	74.00	29.73
1 080.24	52.40	Peak	H	-9.37	-	43.03	74.00	30.97
1 186.73	49.63	Peak	H	-9.26	-	40.37	74.00	33.63
1 190.23	51.90	Peak	V	-9.25	-	42.65	74.00	31.35
1 239.23	49.07	Peak	H	-9.18	-	39.89	74.00	34.11
1 289.22	52.42	Peak	V	-9.12	-	43.30	74.00	30.70
1 415.71	51.74	Peak	V	-8.97	-	42.77	74.00	31.23

- 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)
5 432.69	40.43	Peak	V	7.14	-	47.57	74.00	26.43
5 455.92	43.28	Peak	H	7.16	-	50.44	74.00	23.56



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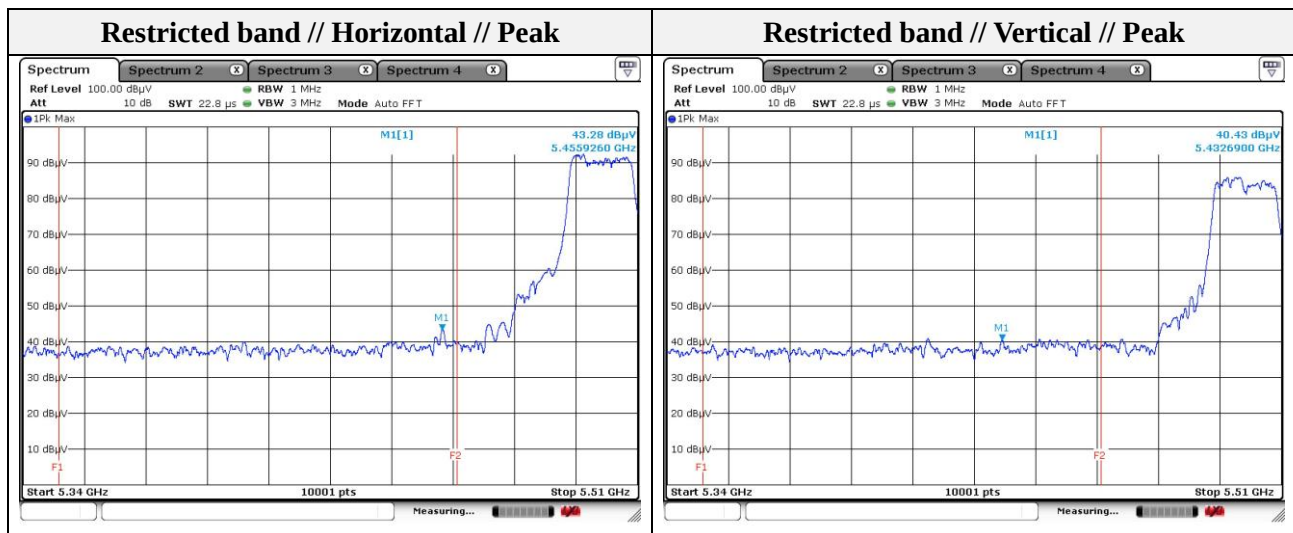
Mode: 802.11an_HT20
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 100

- Spurious

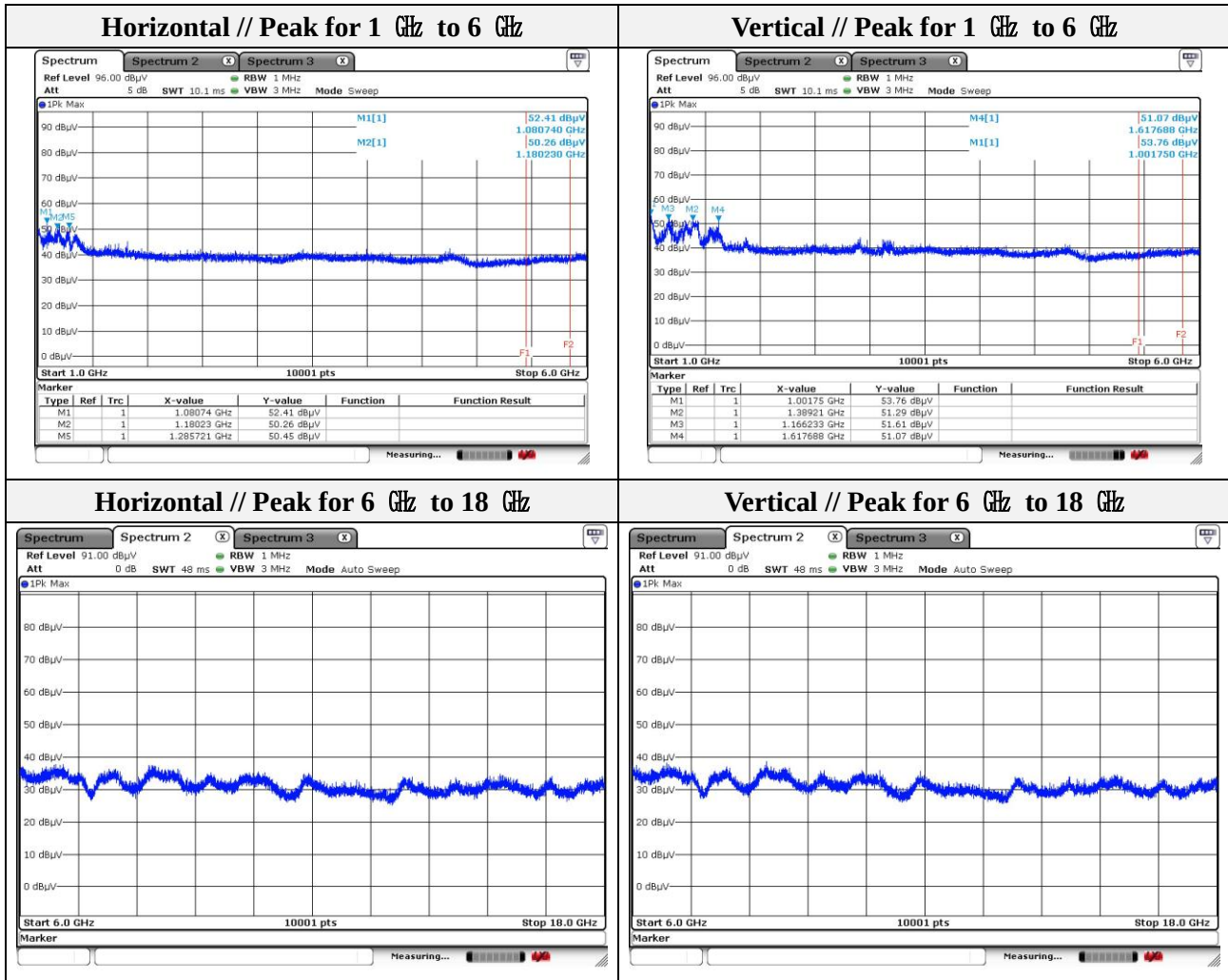
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.75	53.76	Peak	V	-9.45	-	44.31	74.00	29.69
1 180.23	50.26	Peak	H	-9.26	-	41.00	74.00	33.00
1 080.24	52.41	Peak	H	-9.37	-	43.04	74.00	30.96
1 166.23	51.61	Peak	V	-9.27	-	42.34	74.00	31.66
1 285.72	50.45	Peak	H	-9.12	-	41.33	74.00	32.67
1 389.21	51.29	Peak	V	-8.98	-	42.31	74.00	31.69
1 617.69	51.07	Peak	V	-4.65	-	46.42	74.00	27.58

- 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)
5 432.69	40.43	Peak	V	7.14	-	47.57	74.00	26.43
5 455.92	43.28	Peak	H	7.16	-	50.44	74.00	23.56



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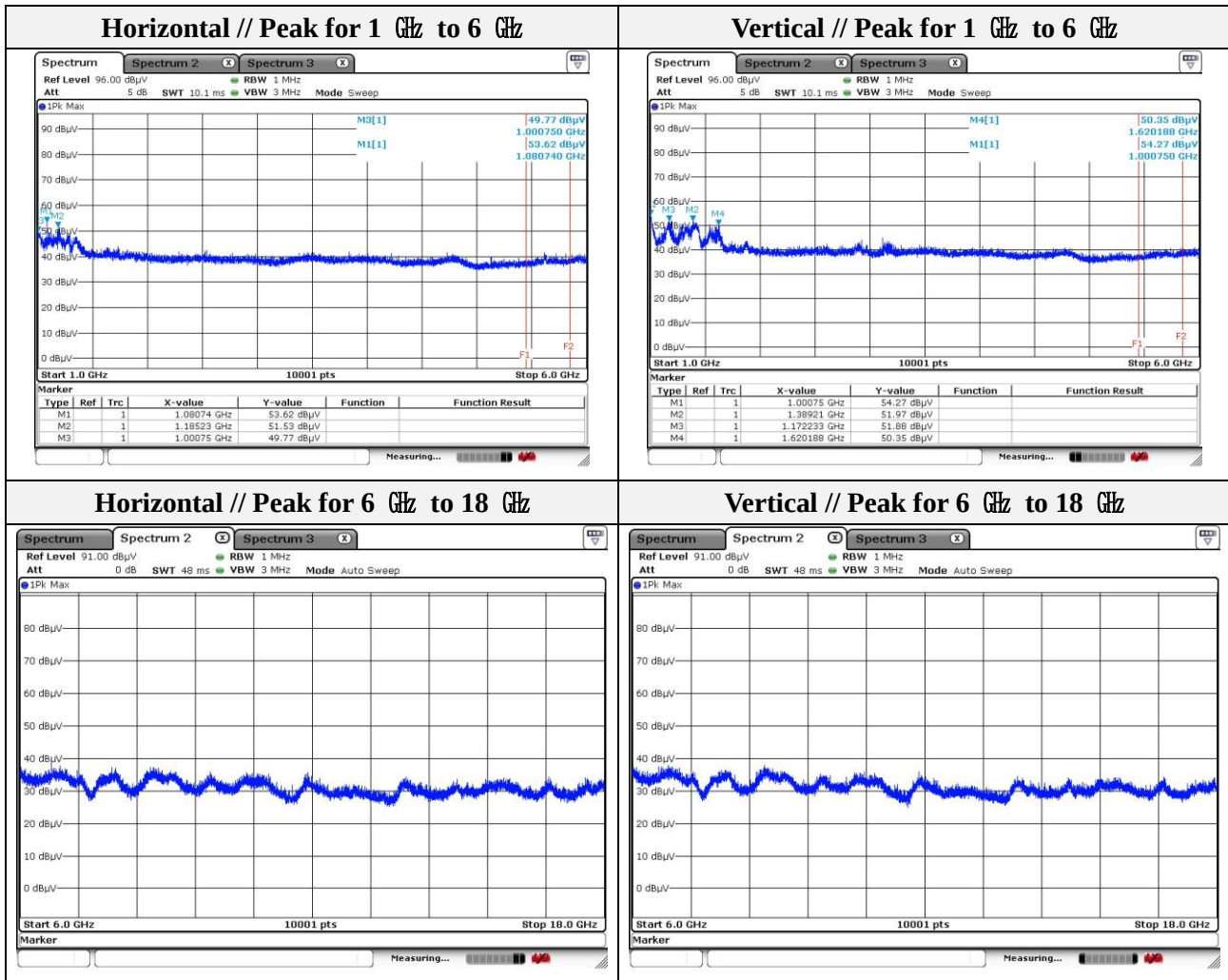
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Mode: 802.11an_HT20
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 124

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.75	49.77	Peak	H	-9.44	-	40.33	74.00	33.67
1 000.75	54.27	Peak	V	-9.44	-	44.83	74.00	29.17
1 080.74	53.62	Peak	H	-9.36	-	44.26	74.00	29.74
1 172.23	51.88	Peak	V	-9.27	-	42.61	74.00	31.39
1 185.23	51.53	Peak	H	-9.25	-	42.28	74.00	31.72
1 389.21	51.97	Peak	V	-8.98	-	42.99	74.00	31.01
1 620.19	50.35	Peak	V	-4.60	-	45.75	74.00	28.25

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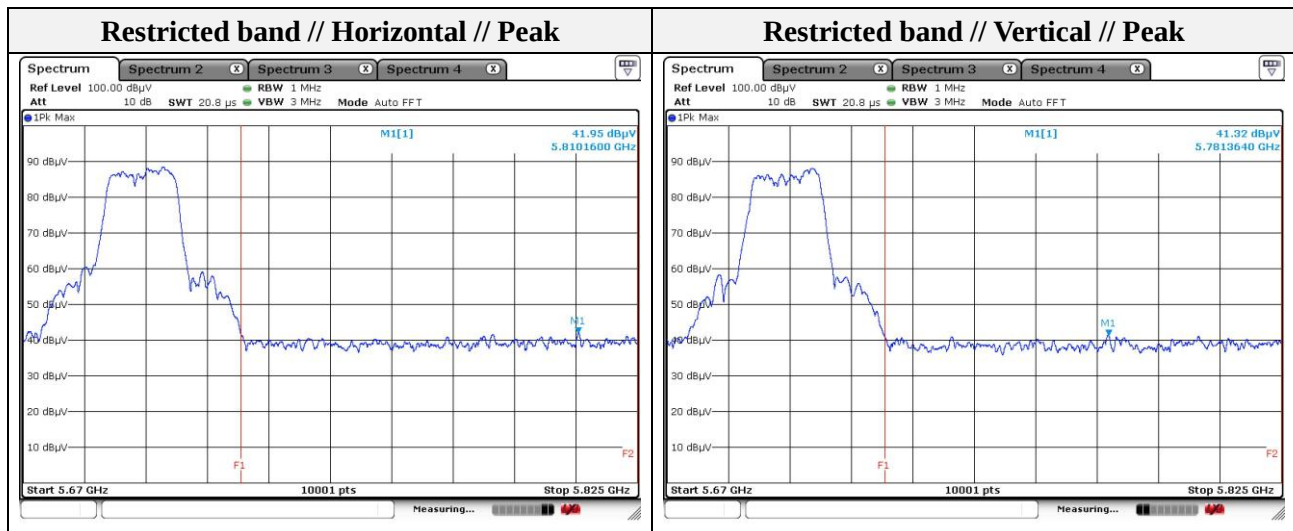
Mode: 802.11an_HT20
 Band: UNII-2C
 Distance of measurement: 3 meter
 Channel: 140

- Spurious

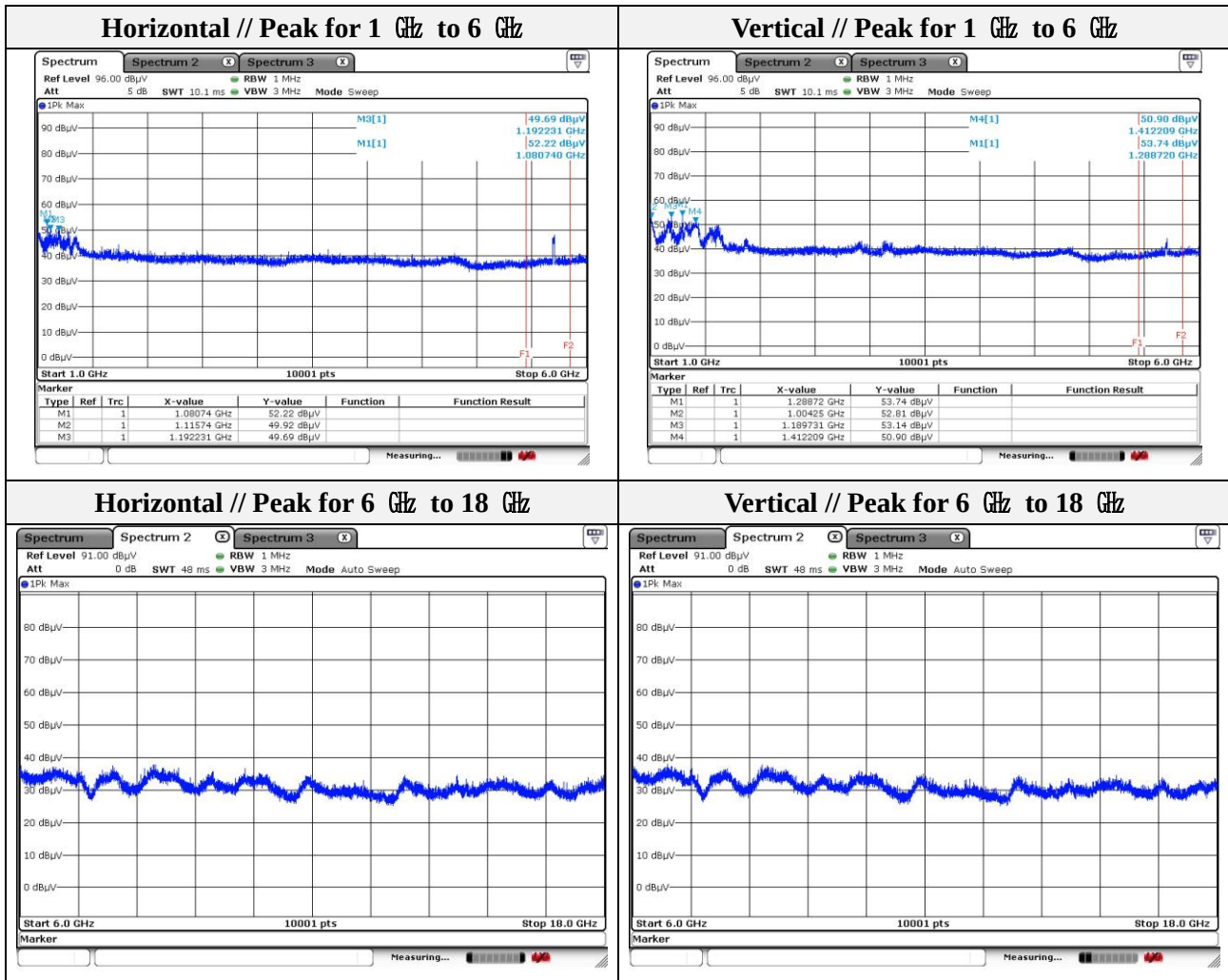
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 004.25	52.81	Peak	V	-9.44	-	43.37	74.00	30.63
1 080.74	52.22	Peak	H	-9.36	-	42.86	74.00	31.14
1 115.74	49.92	Peak	H	-9.33	-	40.59	74.00	33.41
1 189.73	53.14	Peak	V	-9.25	-	43.89	74.00	30.11
1 192.23	49.69	Peak	H	-9.25	-	40.44	74.00	33.56
1 288.72	53.74	Peak	V	-9.11	-	44.63	74.00	29.37
1 412.21	50.90	Peak	V	-8.97	-	41.93	74.00	32.07

- 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)
5 781.36	41.32	Peak	V	9.90	-	51.22	74.00	22.78
5 810.02	41.95	Peak	H	10.05	-	52.00	74.00	22.00



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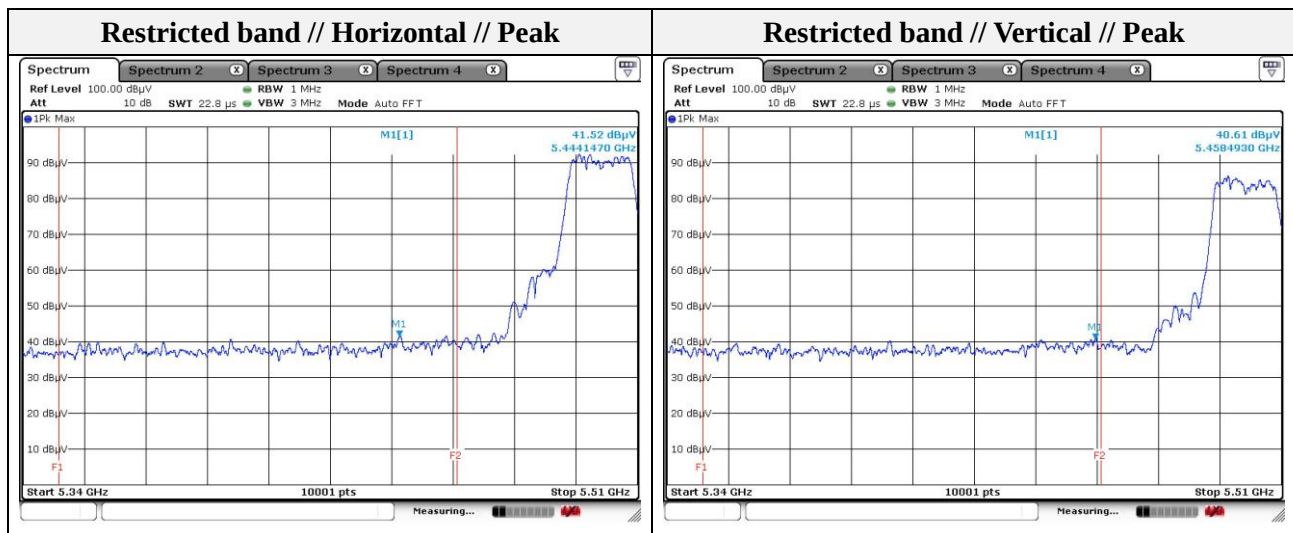
Mode: 802.11ac_HT20
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 100

- Spurious

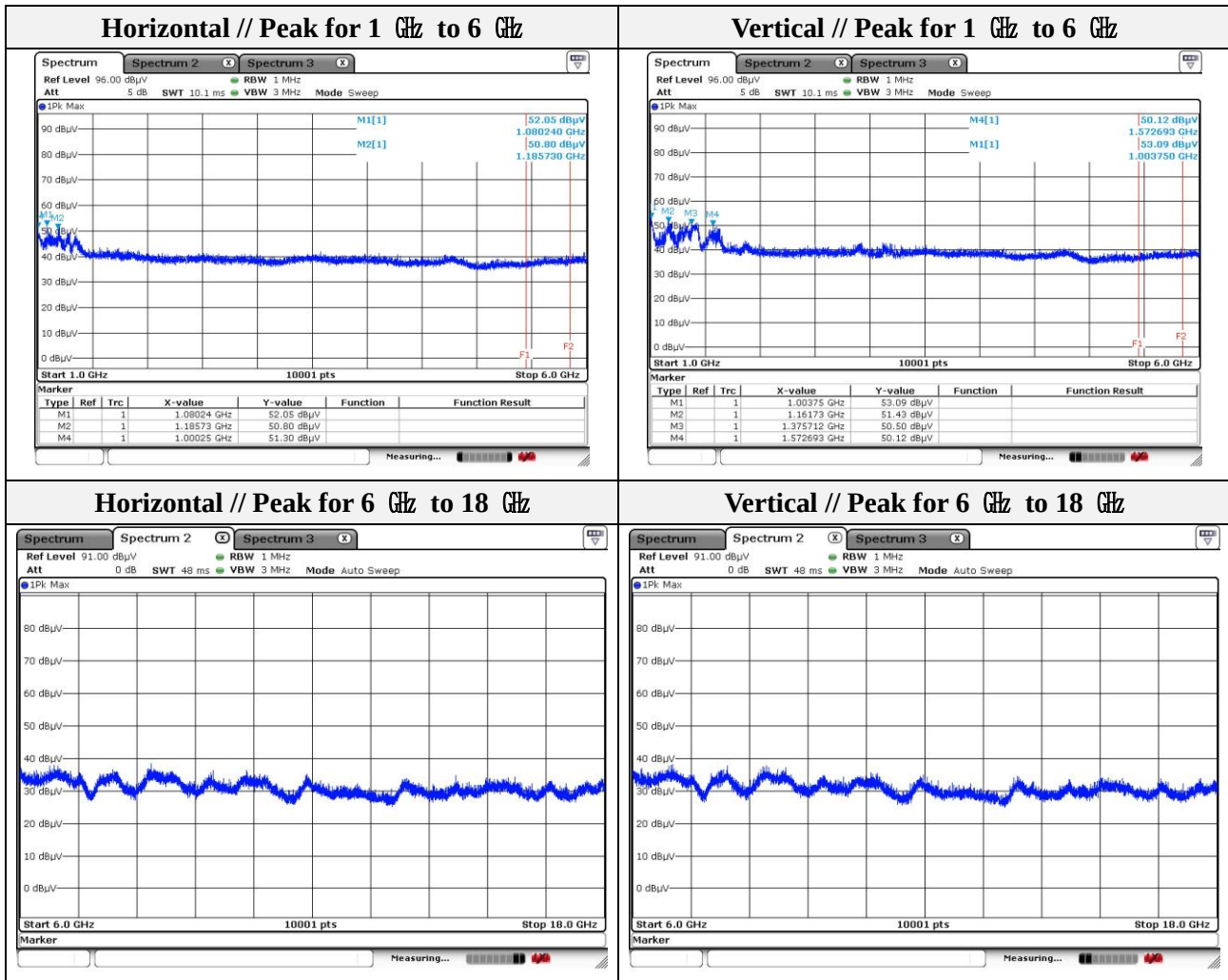
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	51.30	Peak	H	-9.44	-	41.86	74.00	32.14
1 003.75	53.09	Peak	V	-9.44	-	43.65	74.00	30.35
1 080.24	52.05	Peak	H	-9.37	-	42.68	74.00	31.32
1 161.73	51.43	Peak	V	-9.28	-	42.15	74.00	31.85
1 185.73	50.80	Peak	H	-9.25	-	41.55	74.00	32.45
1 375.71	50.50	Peak	V	-9.00	-	41.50	74.00	32.50
1 572.69	50.12	Peak	V	-5.40	-	44.72	74.00	29.28

- 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)
5 444.15	41.52	Peak	H	7.15	-	48.67	74.00	25.33
5 458.49	40.61	Peak	V	7.16	-	47.77	74.00	26.23



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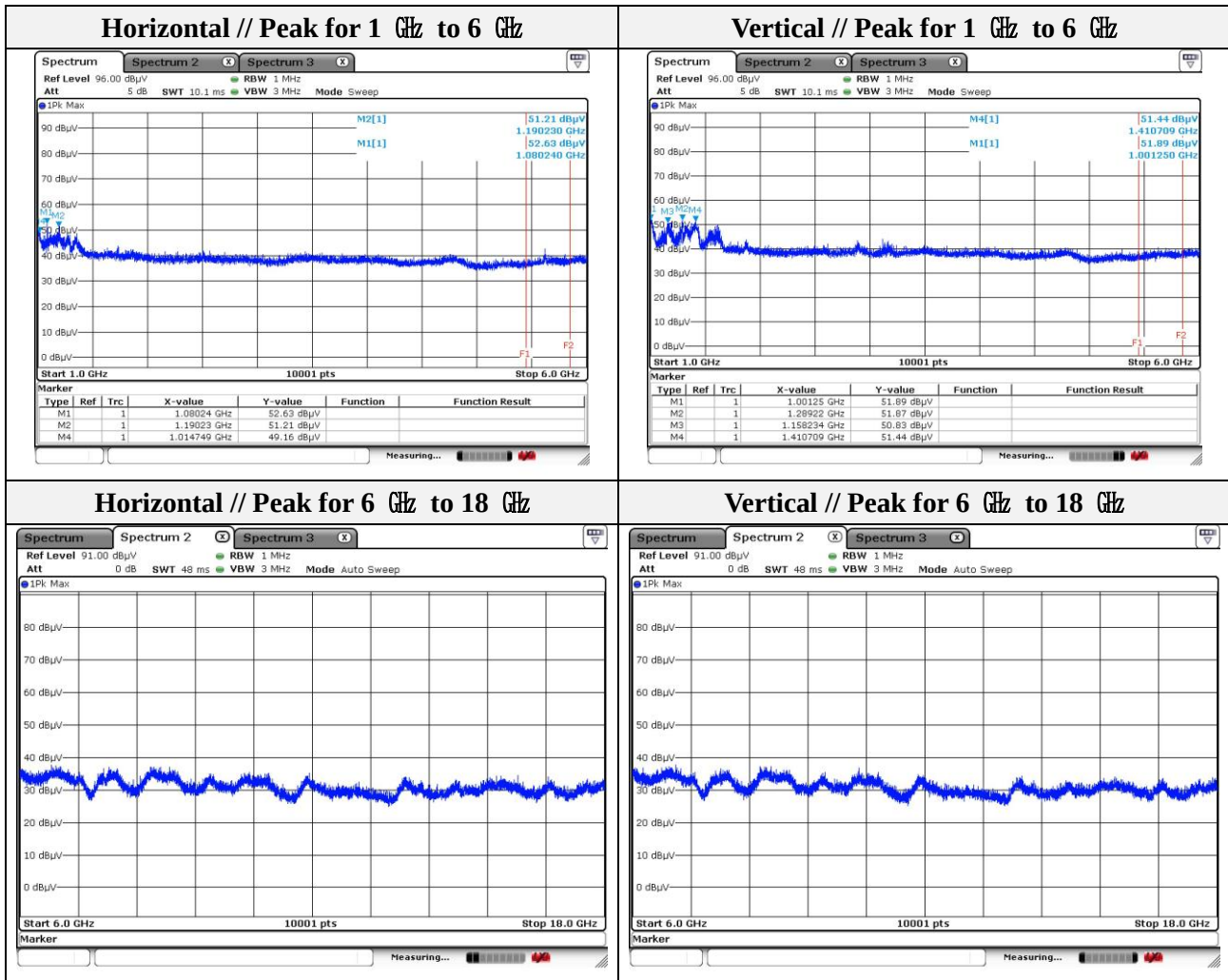
Page (161) of (214)

Mode: 802.11ac_HT20
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 124

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 001.25	51.89	Peak	V	-9.44	-	42.45	74.00	31.55
1 014.75	49.16	Peak	H	-9.43	-	39.73	74.00	34.27
1 080.24	52.63	Peak	H	-9.37	-	43.26	74.00	30.74
1 158.23	50.83	Peak	V	-9.28	-	41.55	74.00	32.45
1 190.23	51.21	Peak	H	-9.25	-	41.96	74.00	32.04
1 289.22	51.87	Peak	V	-9.12	-	42.75	74.00	31.25
1 410.71	51.44	Peak	V	-8.96	-	42.48	74.00	31.52

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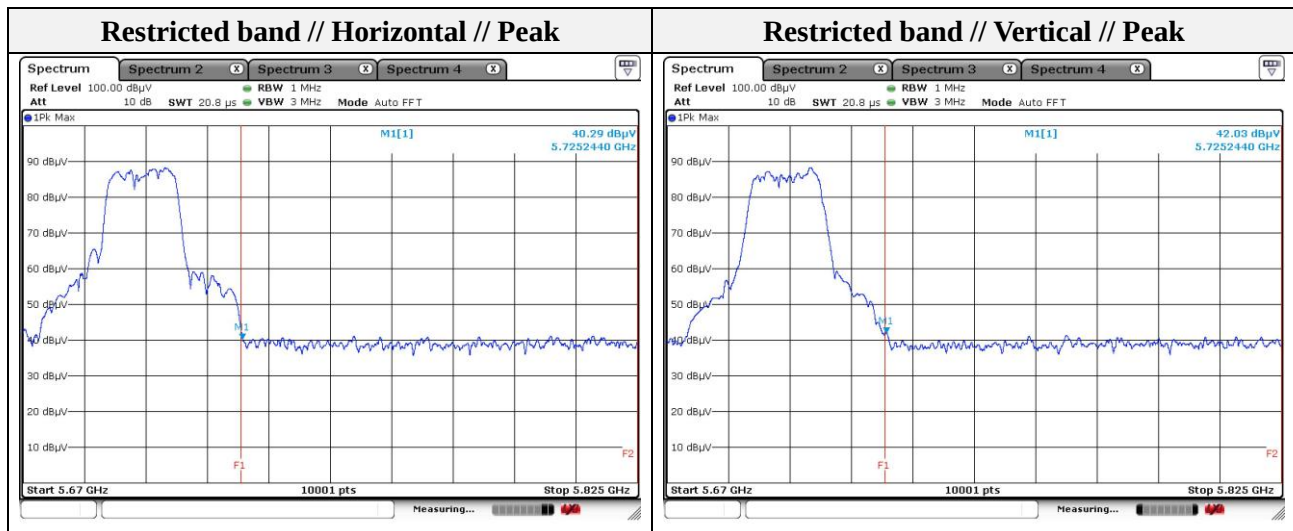
Mode: 802.11ac_HT20
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 140

- Spurious

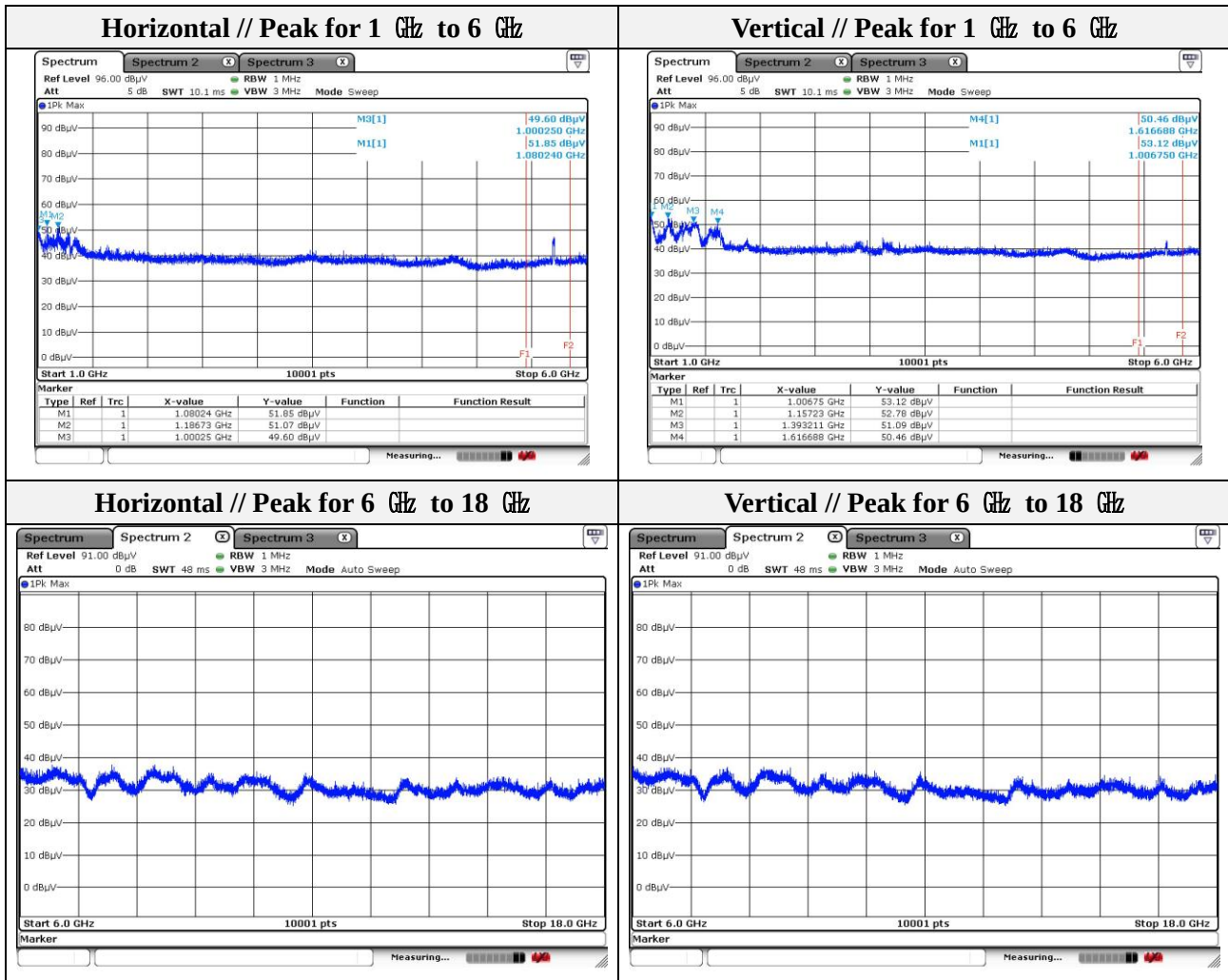
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	49.60	Peak	H	-9.44	-	40.16	74.00	33.84
1 006.75	53.12	Peak	V	-9.43	-	43.69	74.00	30.31
1 080.24	51.85	Peak	H	-9.37	-	42.48	74.00	31.52
1 157.23	52.78	Peak	V	-9.28	-	43.50	74.00	30.50
1 186.73	51.07	Peak	H	-9.26	-	41.81	74.00	32.19
1 393.21	51.09	Peak	V	-8.97	-	42.12	74.00	31.88
1 616.69	50.46	Peak	V	-4.67	-	45.79	74.00	28.21

- 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)
5725.24	40.29	Peak	H	9.68	-	49.97	74.00	24.03
5725.24	42.03	Peak	V	9.68	-	51.71	74.00	22.29



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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.

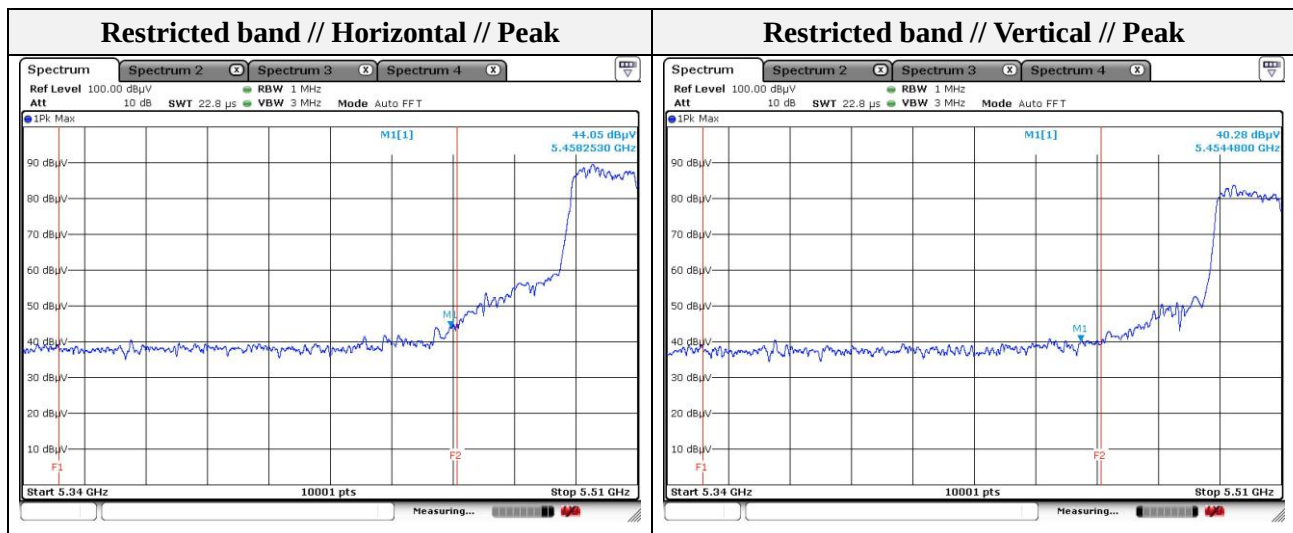
Mode: 802.11an_HT40
 Band: UNII-2C
 Distance of measurement: 3 meter
 Channel: 102

- Spurious

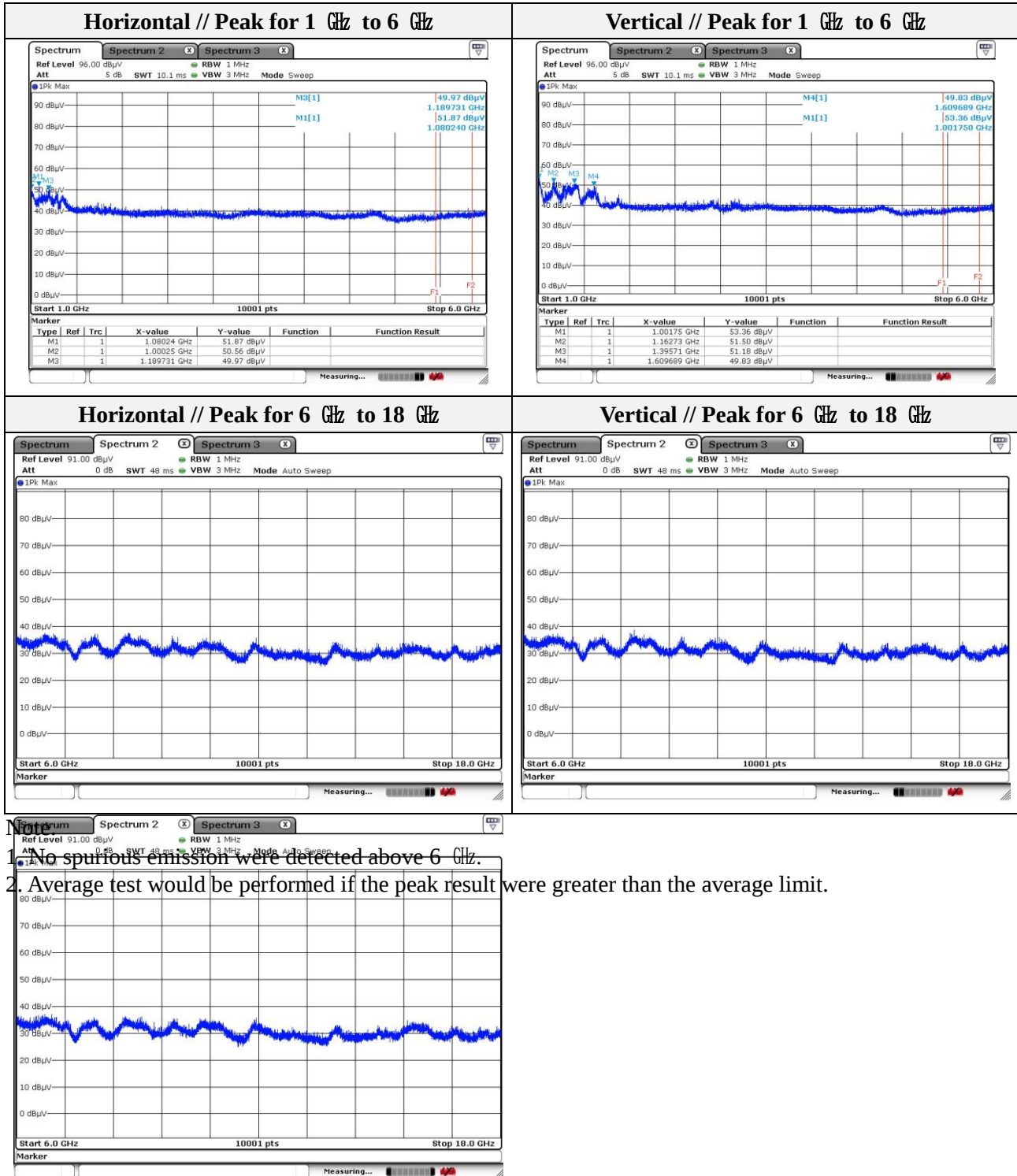
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	50.56	Peak	H	-9.44	-	41.12	74.00	32.88
1 001.75	53.36	Peak	V	-9.45	-	43.91	74.00	30.09
1 080.24	51.87	Peak	H	-9.37	-	42.50	74.00	31.50
1 162.73	51.50	Peak	V	-9.27	-	42.23	74.00	31.77
1 189.73	49.97	Peak	H	-9.25	-	40.72	74.00	33.28
1 395.71	51.18	Peak	V	-8.97	-	42.21	74.00	31.79
1 609.69	49.83	Peak	V	-4.79	-	45.04	74.00	28.96

- 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)
5 454.48	40.28	Peak	V	7.16	-	47.44	74.00	26.56
5 458.25	44.05	Peak	H	7.16	-	51.21	74.00	22.79



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Report No.:

KES-RF1-22T0071

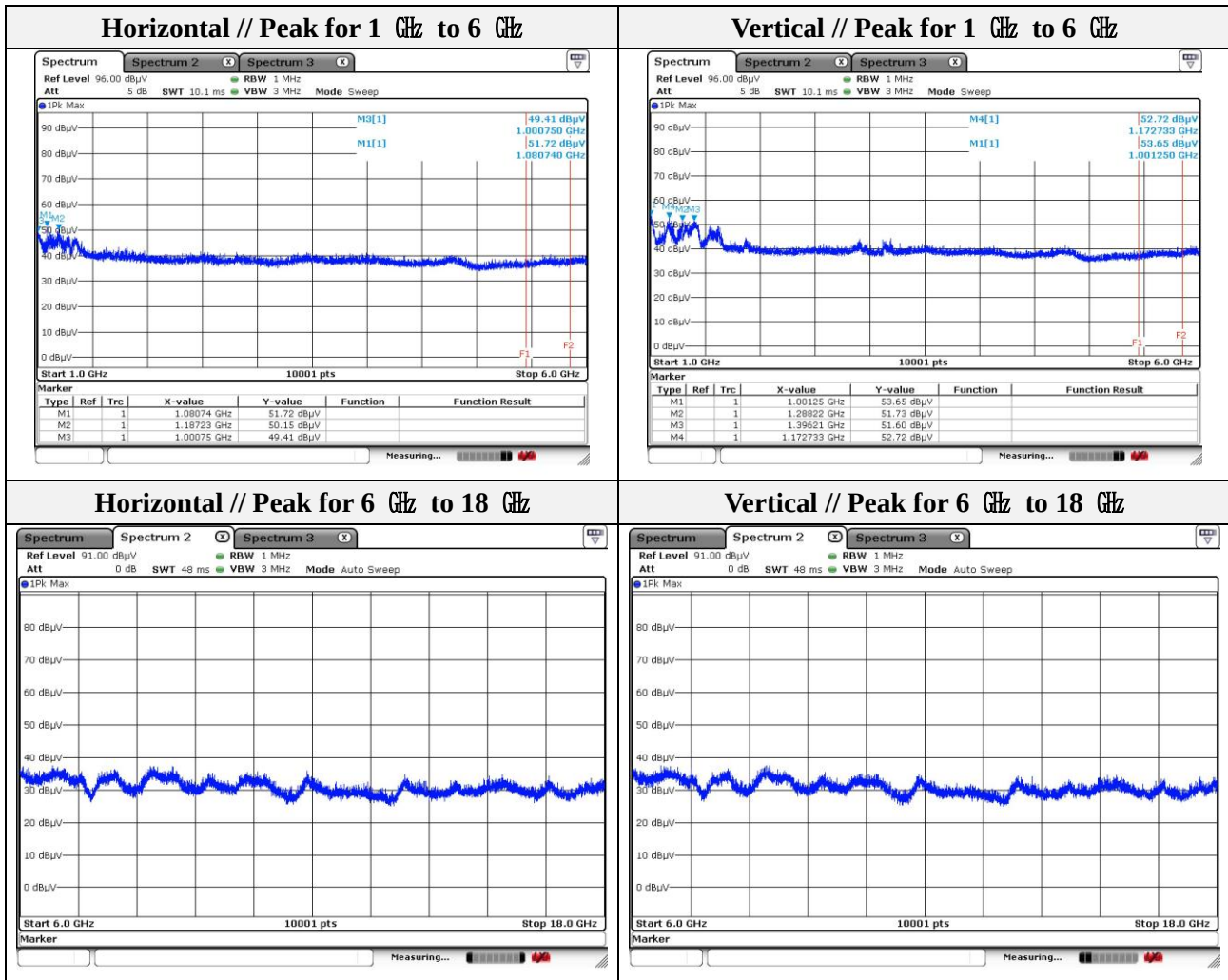
Page (167) of (214)

Mode: 802.11an_HT40
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 126

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.75	49.41	Peak	H	-9.44	-	39.97	74.00	34.03
1 001.25	53.65	Peak	V	-9.44	-	44.21	74.00	29.79
1 080.74	51.72	Peak	H	-9.36	-	42.36	74.00	31.64
1 172.73	52.72	Peak	V	-9.27	-	43.45	74.00	30.55
1 187.23	50.15	Peak	H	-9.26	-	40.89	74.00	33.11
1 288.22	51.73	Peak	V	-9.11	-	42.62	74.00	31.38
1 396.21	51.60	Peak	V	-8.97	-	42.63	74.00	31.37

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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.

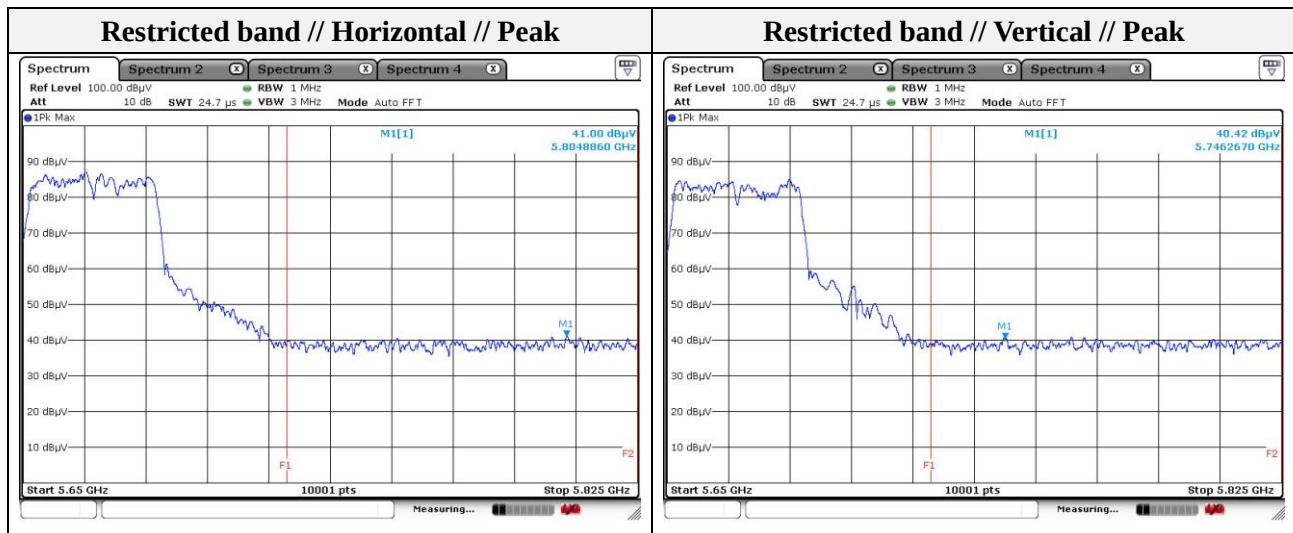
Mode: 802.11an_HT40
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 142

- Spurious

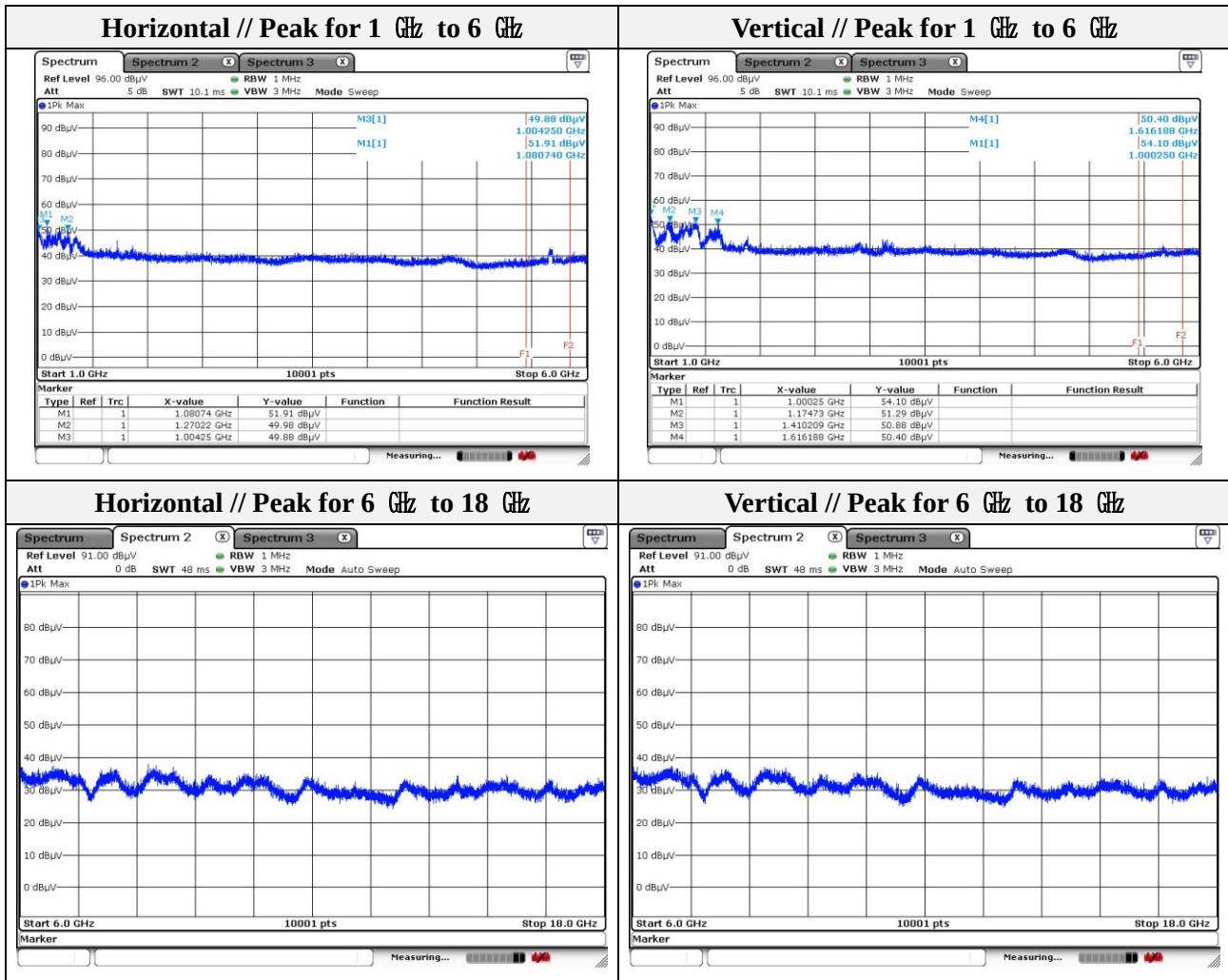
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	54.10	Peak	V	-9.44	-	44.66	74.00	29.34
1 004.25	49.88	Peak	H	-9.44	-	40.44	74.00	33.56
1 080.74	51.91	Peak	H	-9.36	-	42.55	74.00	31.45
1 174.73	51.29	Peak	V	-9.26	-	42.03	74.00	31.97
1 270.22	49.98	Peak	H	-9.14	-	40.84	74.00	33.16
1 410.21	50.88	Peak	V	-8.96	-	41.92	74.00	32.08
1 616.19	50.40	Peak	V	-4.67	-	45.73	74.00	28.27

- 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)
5 746.27	40.42	Peak	V	9.76	-	50.18	74.00	23.82
5 804.89	41.00	Peak	H	10.01	-	51.01	74.00	22.99



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Note.

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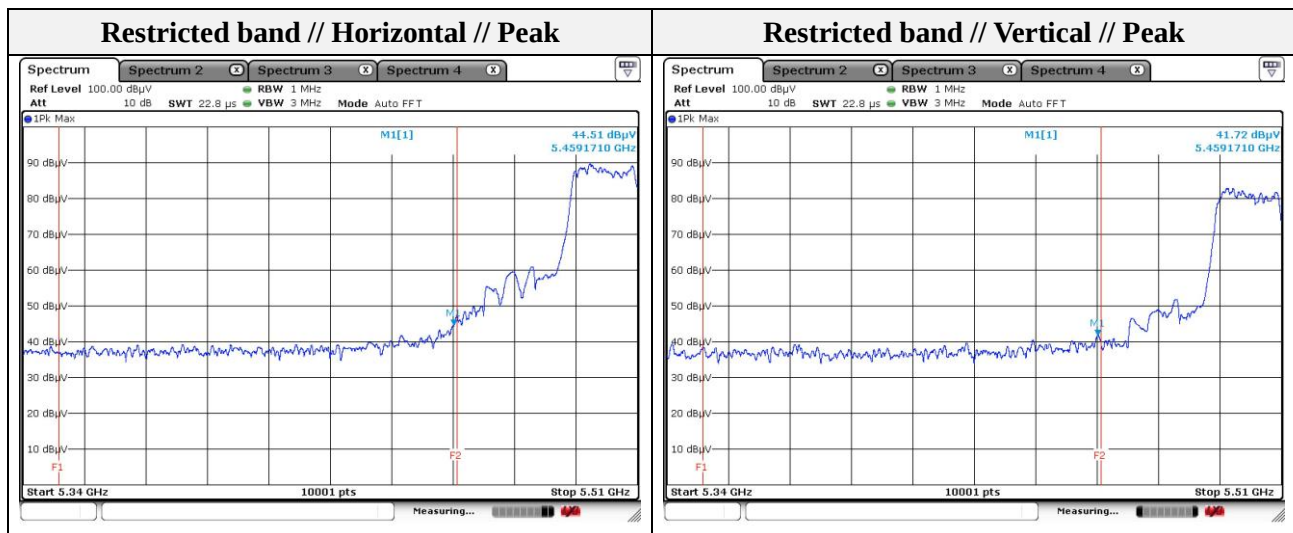
Mode: 802.11ac_HT40
 Band: UNII-2C
 Distance of measurement: 3 meter
 Channel: 102

- Spurious

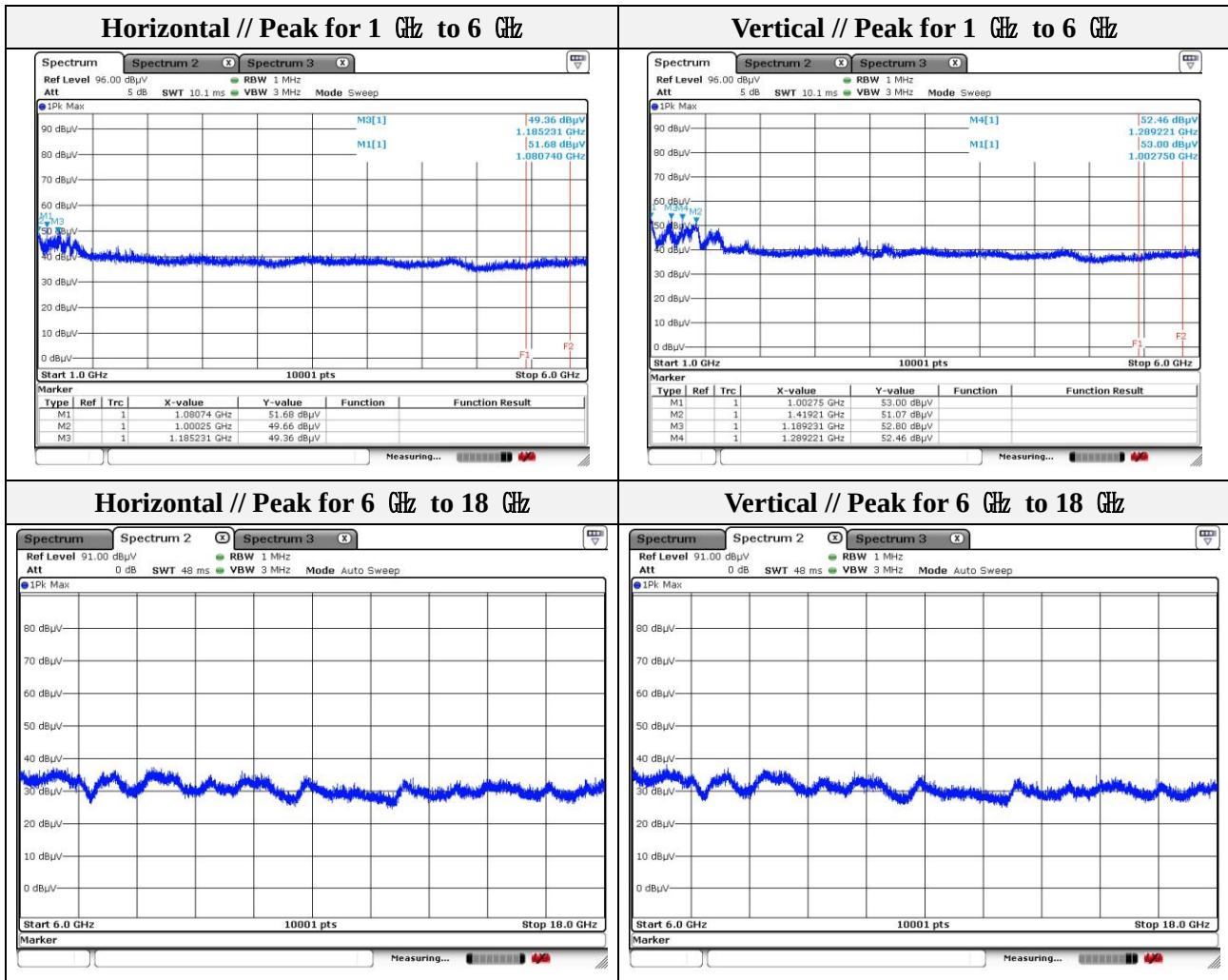
Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.25	49.66	Peak	H	-9.44	-	40.22	74.00	33.78
1 002.75	53.00	Peak	V	-9.44	-	43.56	74.00	30.44
1 080.74	51.68	Peak	H	-9.36	-	42.32	74.00	31.68
1 185.23	49.36	Peak	H	-9.25	-	40.11	74.00	33.89
1 189.23	52.80	Peak	V	-9.25	-	43.55	74.00	30.45
1 289.22	52.46	Peak	V	-9.12	-	43.34	74.00	30.66
1 419.21	51.07	Peak	V	-8.97	-	42.10	74.00	31.90

- 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)
5 459.17	44.51	Peak	H	7.16	-	51.67	74.00	22.33
5 459.17	41.72	Peak	V	7.16	-	48.88	74.00	25.12



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Note.

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

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www.kes.co.kr

Report No.:

KES-RF1-22T0071

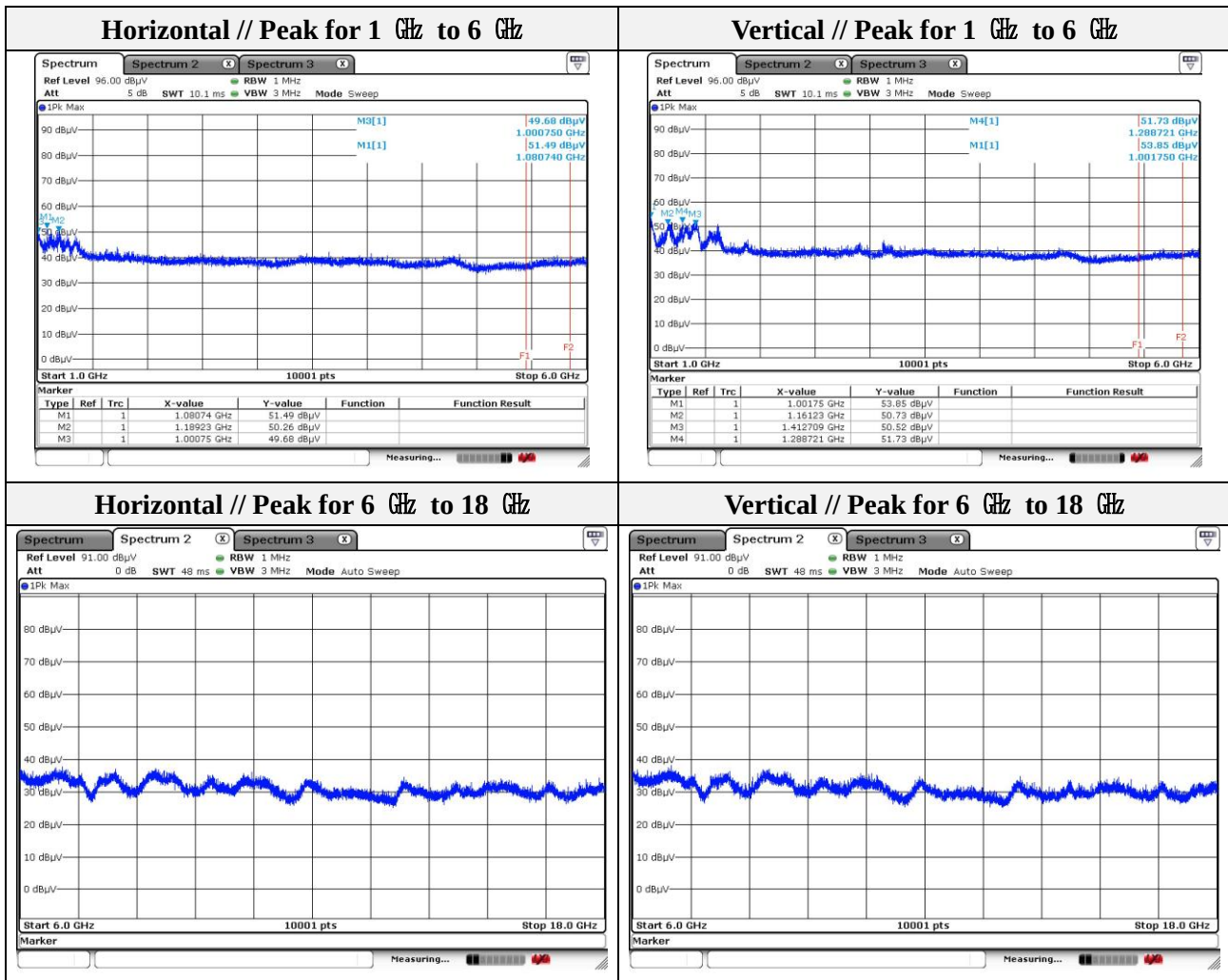
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Mode: 802.11ac_HT40
Band: UNII-2C
Distance of measurement: 3 meter
Channel: 126

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 000.75	49.68	Peak	H	-9.44	-	40.24	74.00	33.76
1 001.75	53.85	Peak	V	-9.45	-	44.40	74.00	29.60
1 080.74	51.49	Peak	H	-9.36	-	42.13	74.00	31.87
1 161.23	50.73	Peak	V	-9.28	-	41.45	74.00	32.55
1 189.23	50.26	Peak	H	-9.25	-	41.01	74.00	32.99
1 288.72	51.73	Peak	V	-9.11	-	42.62	74.00	31.38
1 412.71	50.52	Peak	V	-8.96	-	41.56	74.00	32.44

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Note.

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