



Report No. : RF-230254

Duty cycle

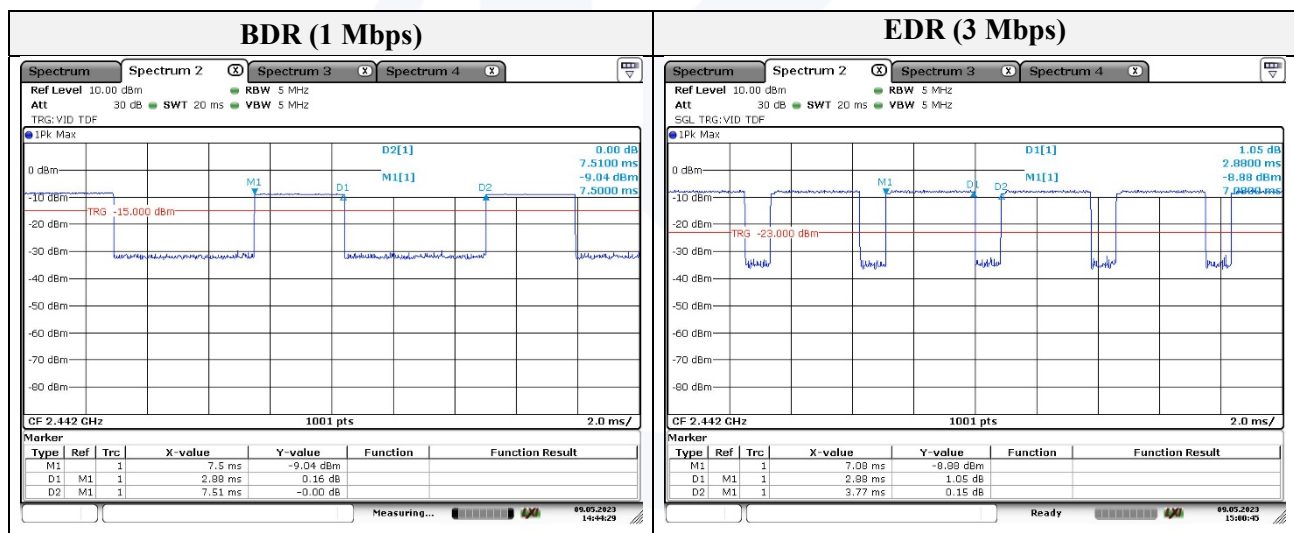
Regarding to KDB 558074 D01_v05 r02, 6. Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- A diode detector and an oscilloscope that together have sufficiently short response time to permit accurate measurements of the on- and off-times of the transmitted signal.
- The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on- and off-times of the transmitted signal.

Mode	T _{on} time (ms)	Period (ms)	Duty cycle (Linear)	Duty cycle (%)	Duty cycle correction factor (dB)
BDR(1 Mbps)	2.880	7.510	0.383	38.35	4.16
EDR(3 Mbps)	2.880	3.770	0.764	76.39	1.17

Duty cycle (Linear) = T_{on} time/Period

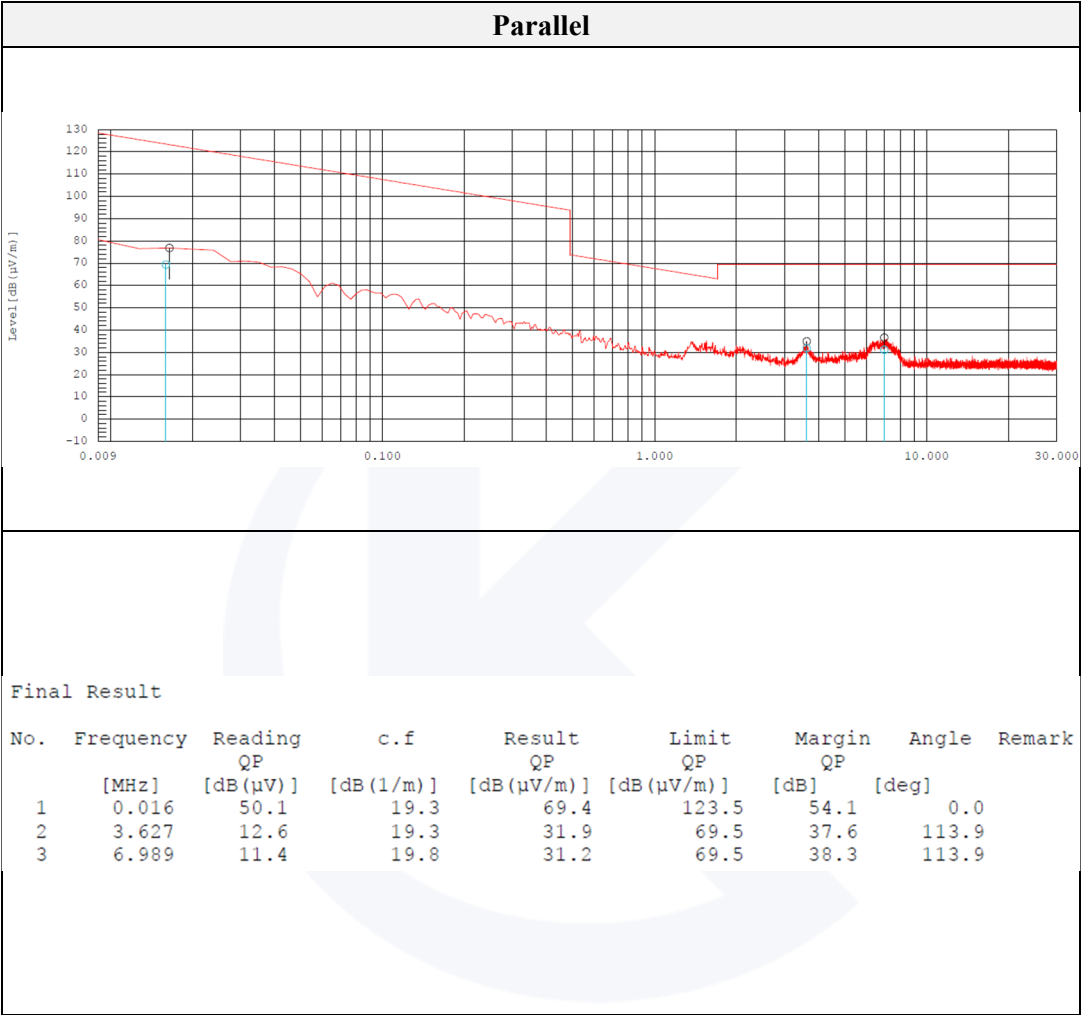
DCF(Duty cycle correction factor (dB)) = 10log(1/duty cycle)





Test results (Below 30 MHz)

Mode: BDR
Distance of measurement: 3 meter
Channel: 00 (Worst case)

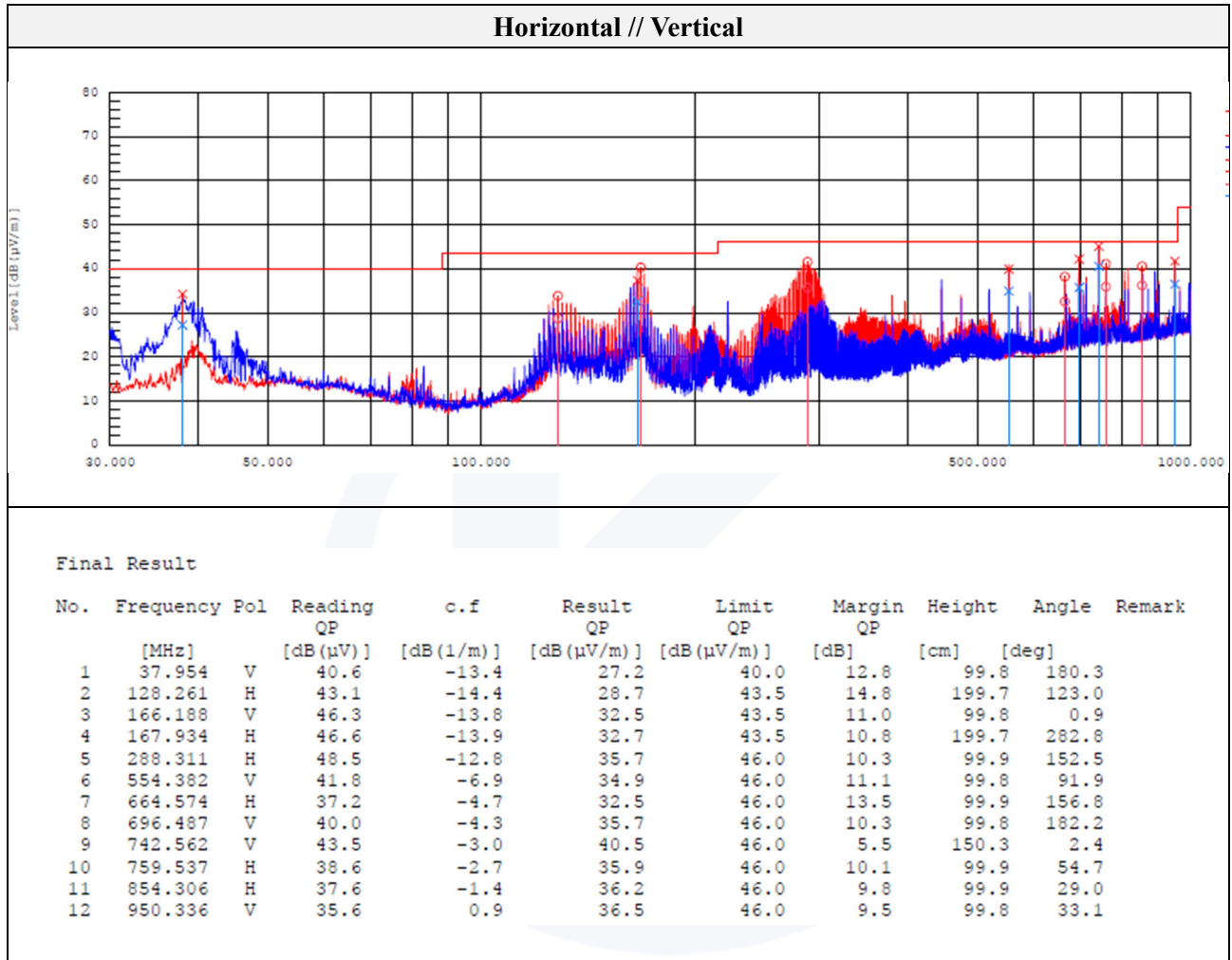




Report No. : RF-230254

Test results (Below 1 000 MHz) – Worst case

Mode: BDR
Distance of measurement: 3 meter
Channel: 00 (Worst case)





Report No. : RF-230254

Test results (Above 1 000 MHz)

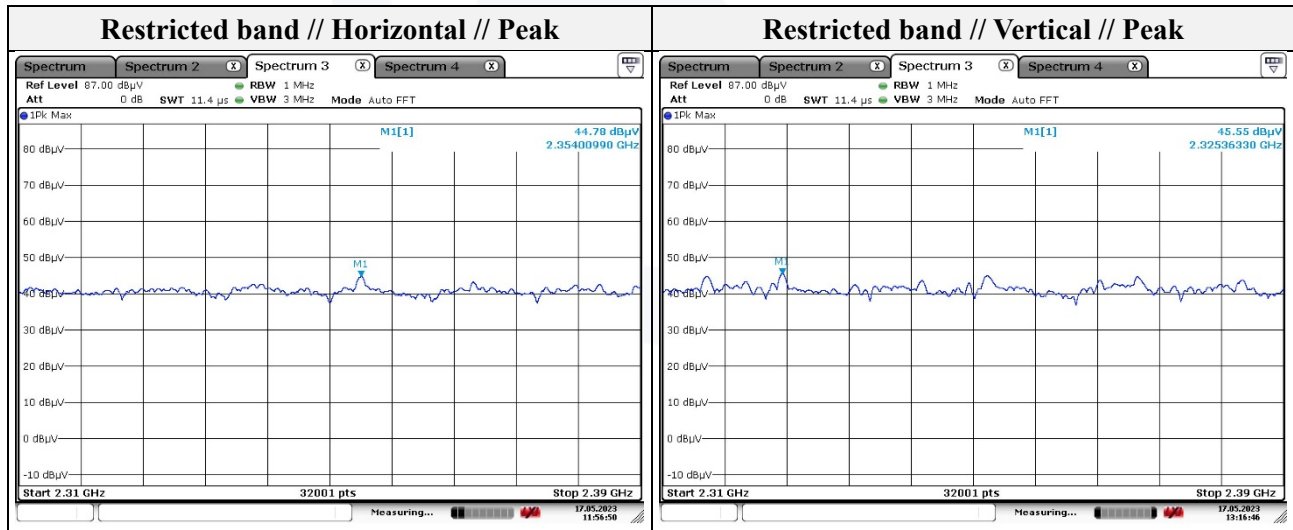
Mode: BDR
Distance of measurement: 3 meter
Channel: 00

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 257.52	48.10	Peak	H	-8.16	-	39.94	74.00	34.06
1 398.52	53.93	Peak	V	-6.98	-	46.95	74.00	27.05
1 596.45	51.82	Peak	V	-6.06	-	45.76	74.00	28.24
1 731.20	49.75	Peak	H	-4.39	-	45.36	74.00	28.64
4 803.46	42.98	Peak	H	5.16	-	48.14	74.00	25.86
4 803.93	43.13	Peak	V	5.16	-	48.29	74.00	25.71

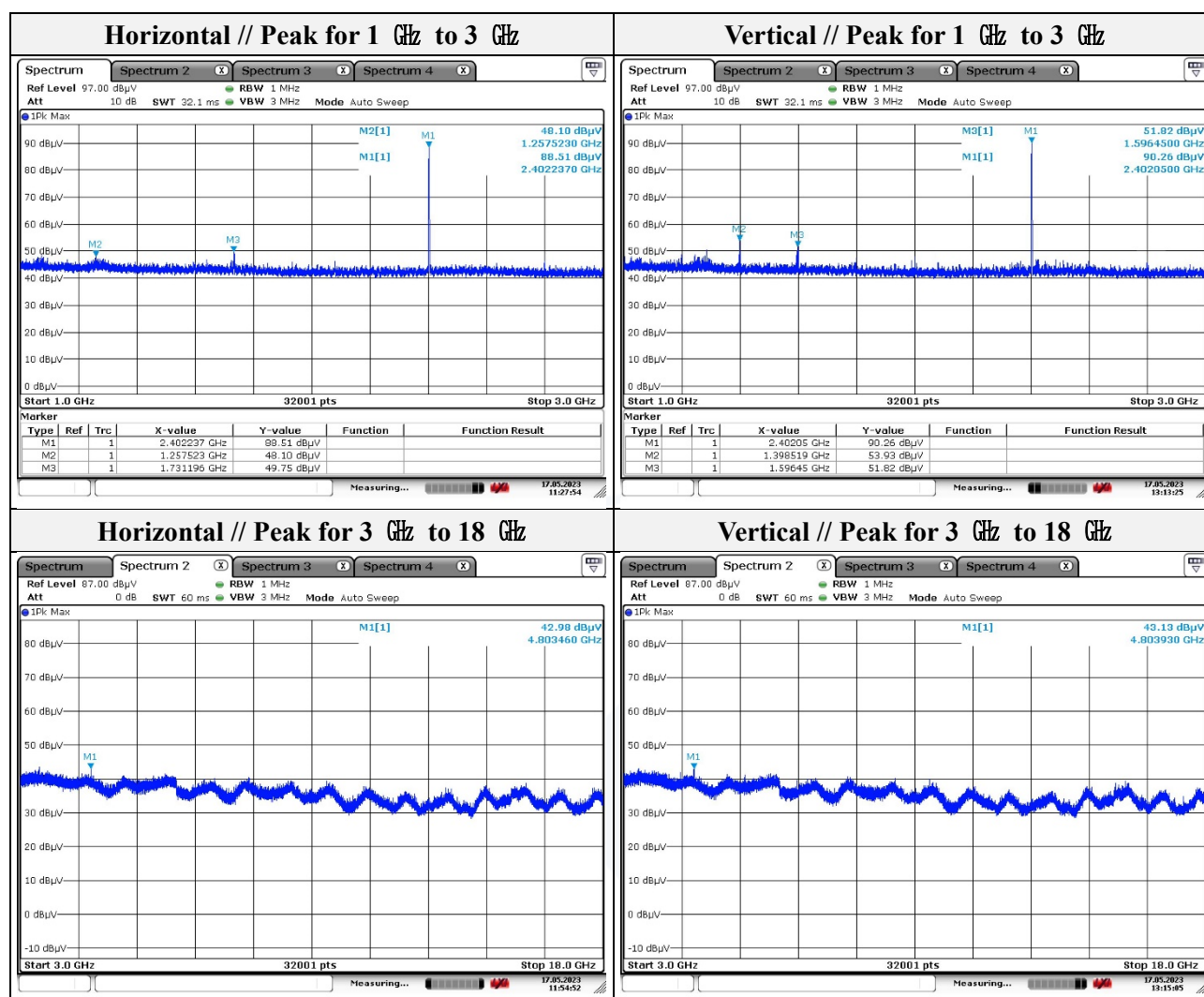
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 354.01	44.78	Peak	H	-1.87	-	42.91	74.00	31.09
2 325.36	45.55	Peak	V	-1.88	-	43.67	74.00	30.33





Report No. : RF-230254



Note.

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



Report No. : RF-230254

Mode: BDR

Distance of measurement: 3 meter

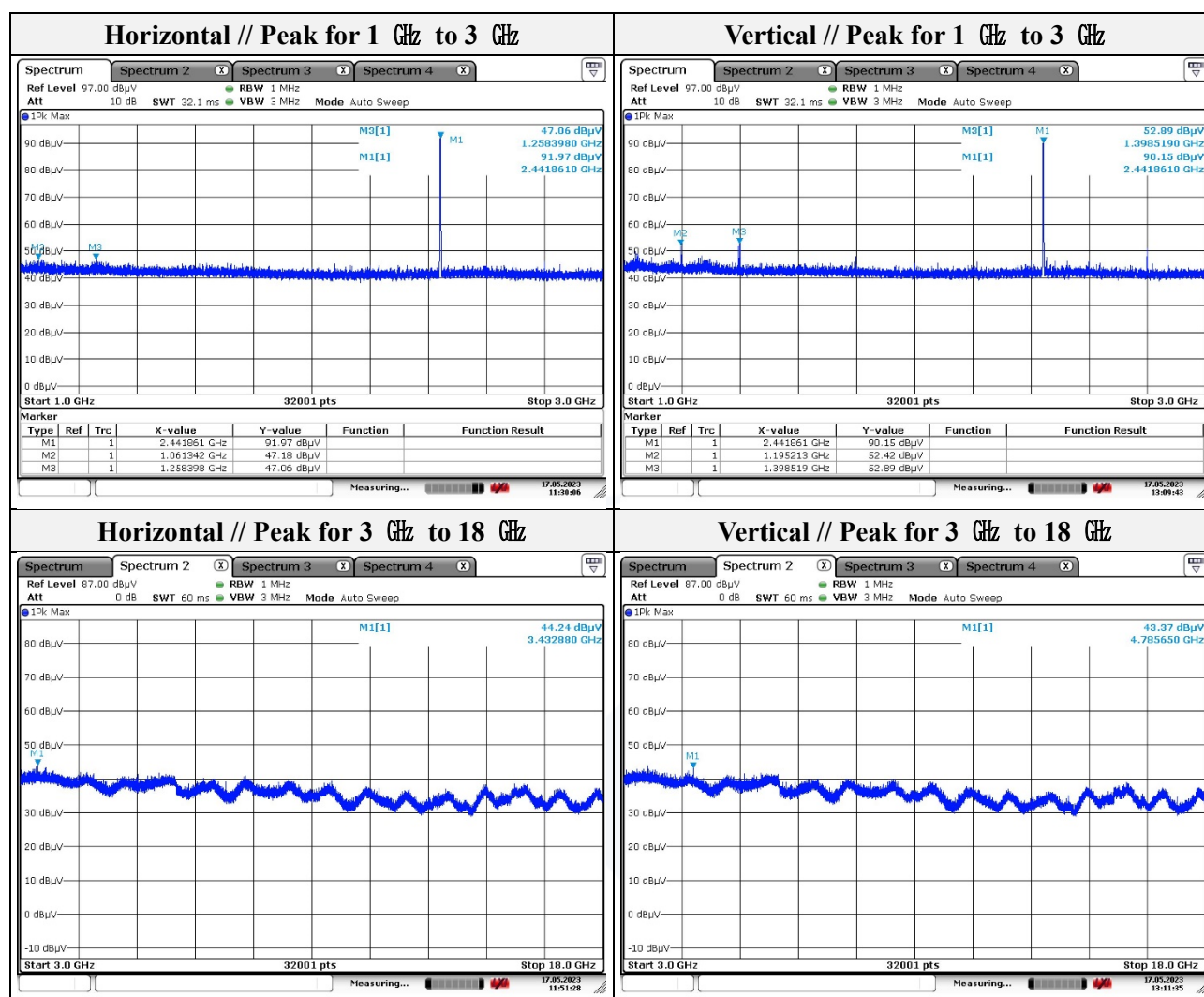
Channel: 40

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)
1 061.34	47.18	Peak	H	-9.57	-	37.61	74.00	36.39
1 195.21	52.42	Peak	V	-8.68	-	43.74	74.00	30.26
1 258.40	47.06	Peak	H	-8.16	-	38.90	74.00	35.10
1 398.52	52.89	Peak	V	-6.98	-	45.91	74.00	28.09
3 432.88	44.24	Peak	H	0.42	-	44.66	74.00	29.34
4 785.65	43.37	Peak	V	5.07	--	48.44	74.00	25.56





Report No. : RF-230254



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Report No. : RF-230254

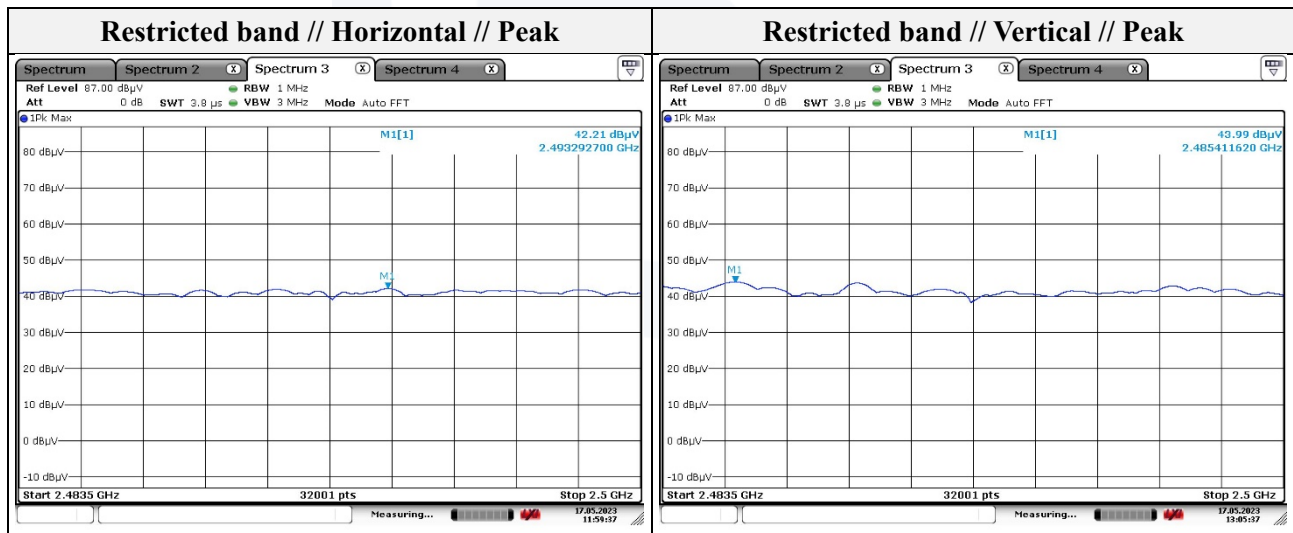
Mode: BDR
Transfer rate: 1 Mbps
Distance of measurement: 3 meter
Channel: 78

- 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)
1 276.90	47.51	Peak	H	-8.00	-	39.51	74.00	34.49
1 399.39	52.30	Peak	V	-6.97	-	45.33	74.00	28.67
1 597.58	54.09	Peak	V	-6.05	-	48.04	74.00	25.96
2 078.87	46.19	Peak	H	-2.06	-	44.13	74.00	29.87
4 959.55	42.83	Peak	V	6.23	-	49.06	74.00	24.94
4 960.02	44.09	Peak	H	6.23	-	50.32	74.00	23.68

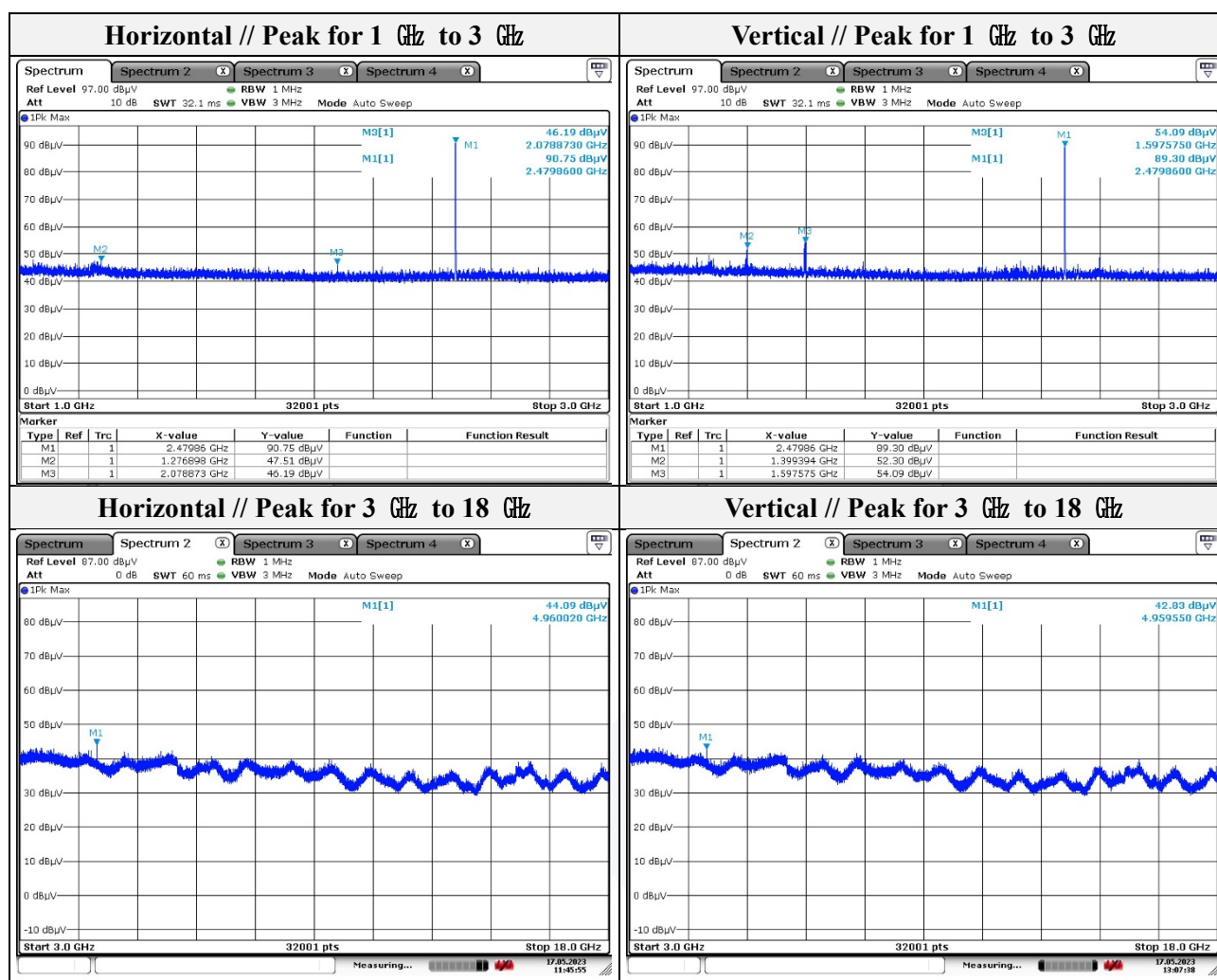
- Band edge

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)
2493.29	42.21	Peak	H	-1.64	-	40.57	74.00	33.43
2485.41	43.99	Peak	V	-1.66	-	42.33	74.00	31.67





Report No. : RF-230254



Note.

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



Report No. : RF-230254

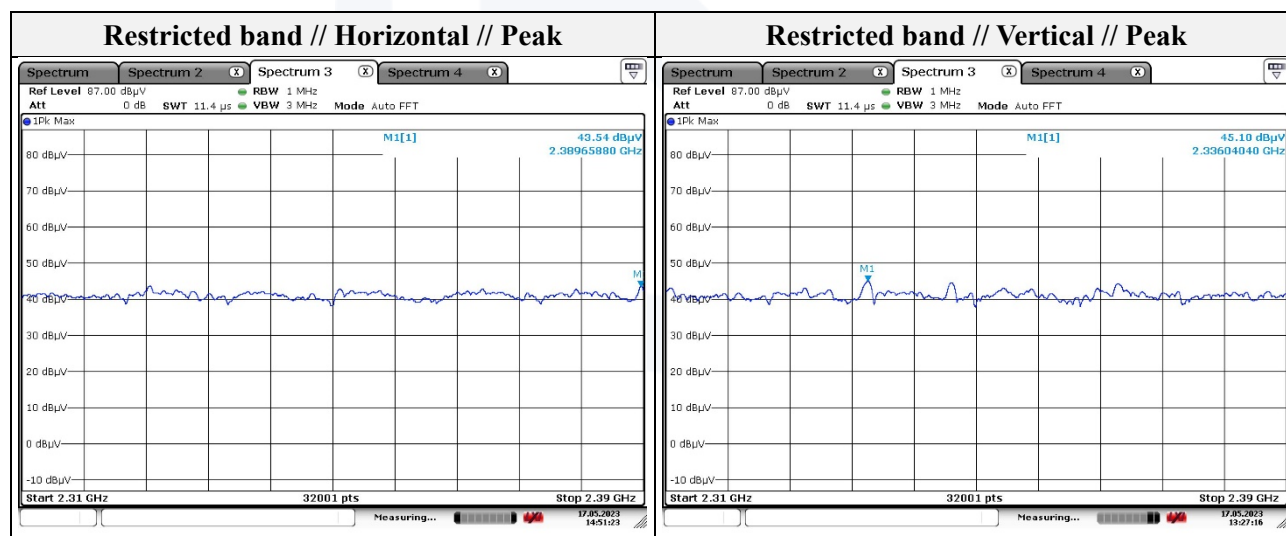
Mode: EDR
Transfer rate: 3 Mbps(Worst case)
Distance of measurement: 3 meter
Channel: 00

- 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)
1 395.14	51.08	Peak	V	-7.01	-	44.07	74.00	29.93
1 592.64	52.09	Peak	V	-6.08	-	46.01	74.00	27.99
1 594.26	50.38	Peak	H	-6.07	-	44.31	74.00	29.69
2 799.10	49.73	Peak	H	-0.09	-	49.64	74.00	24.36
3 319.91	43.84	Peak	H	0.69	-	44.53	74.00	29.47
4 788.93	44.29	Peak	V	5.09	-	49.38	74.00	24.62

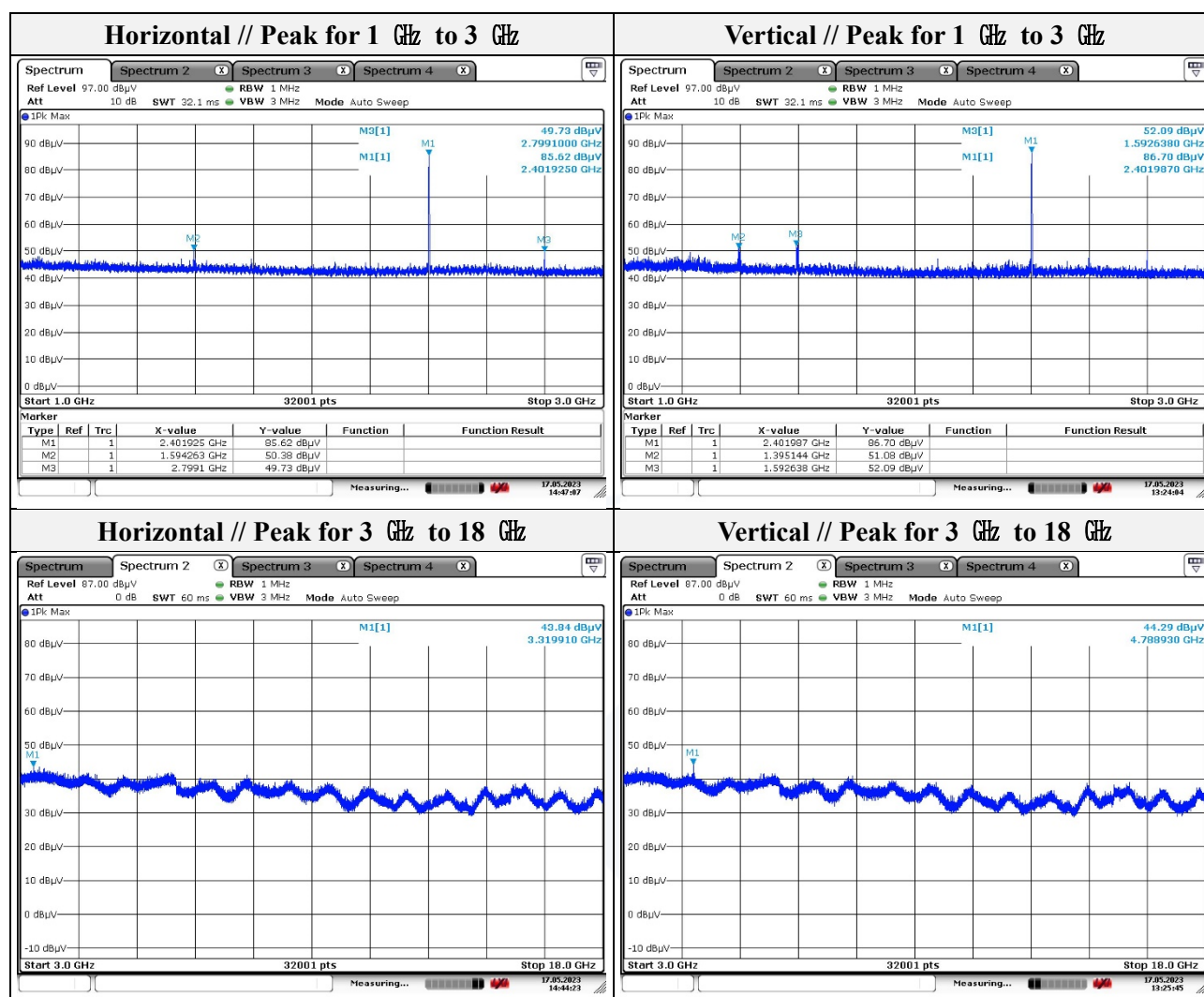
- Band edge

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)
2 389.66	43.54	Peak	H	-1.86	-	41.68	74.00	32.32
2 336.04	45.10	Peak	V	-1.87	-	43.23	74.00	30.77





Report No. : RF-230254



Note.

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



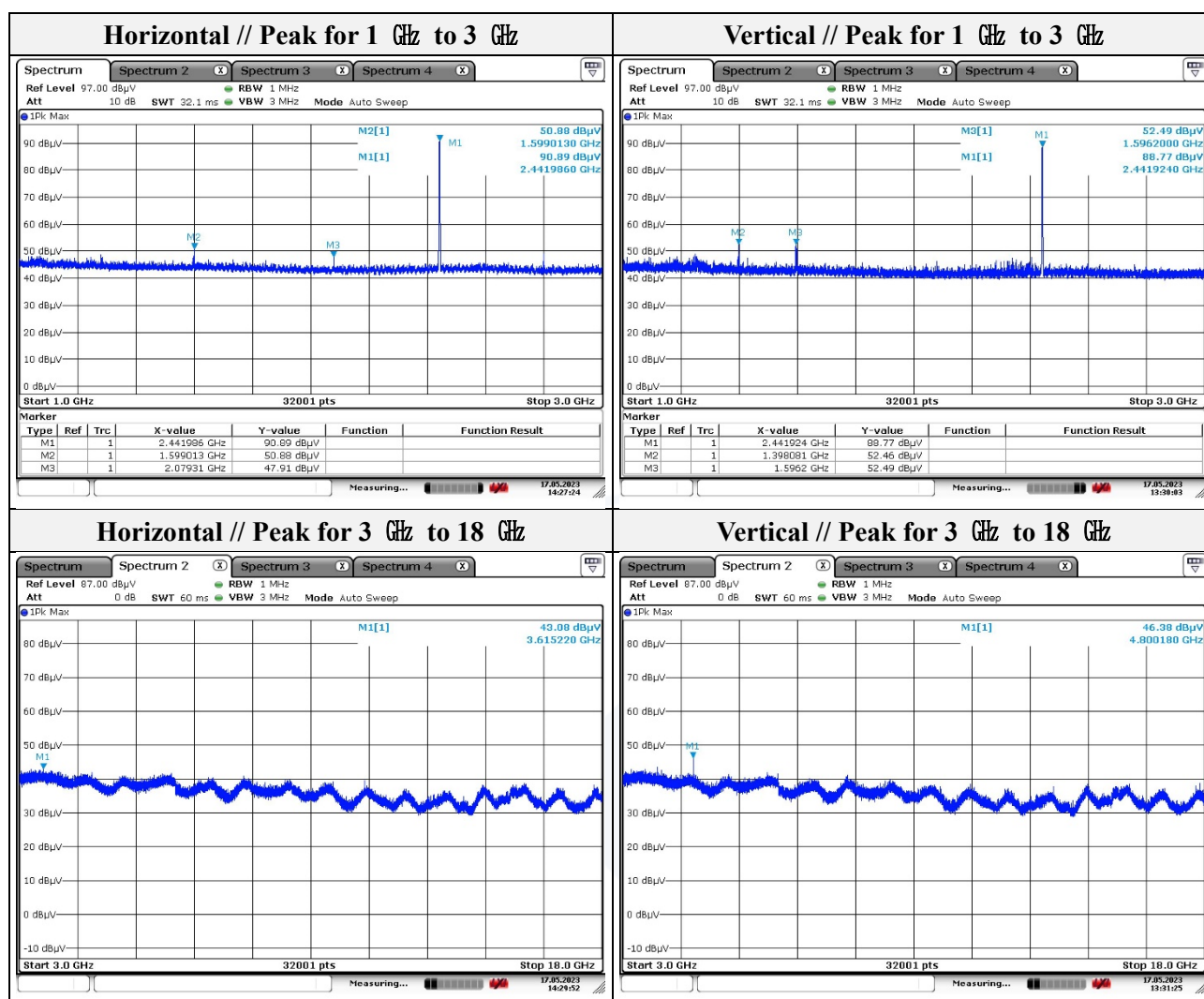
Mode: EDR
Transfer rate: 3 Mbps(Worst case)
Distance of measurement: 3 meter
Channel: 40

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 398.08	52.46	Peak	V	-6.98	-	45.48	74.00	28.52
1 596.20	52.49	Peak	V	-6.06	-	46.43	74.00	27.57
1 599.01	50.88	Peak	H	-6.04	-	44.84	74.00	29.16
2 079.31	47.91	Peak	H	-2.06	-	45.85	74.00	28.15
3 615.22	43.08	Peak	H	0.80	-	43.88	74.00	30.12
4 800.18	46.38	Peak	V	5.14	-	51.52	74.00	22.48



Report No. : RF-230254



Note.

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



Report No. : RF-230254

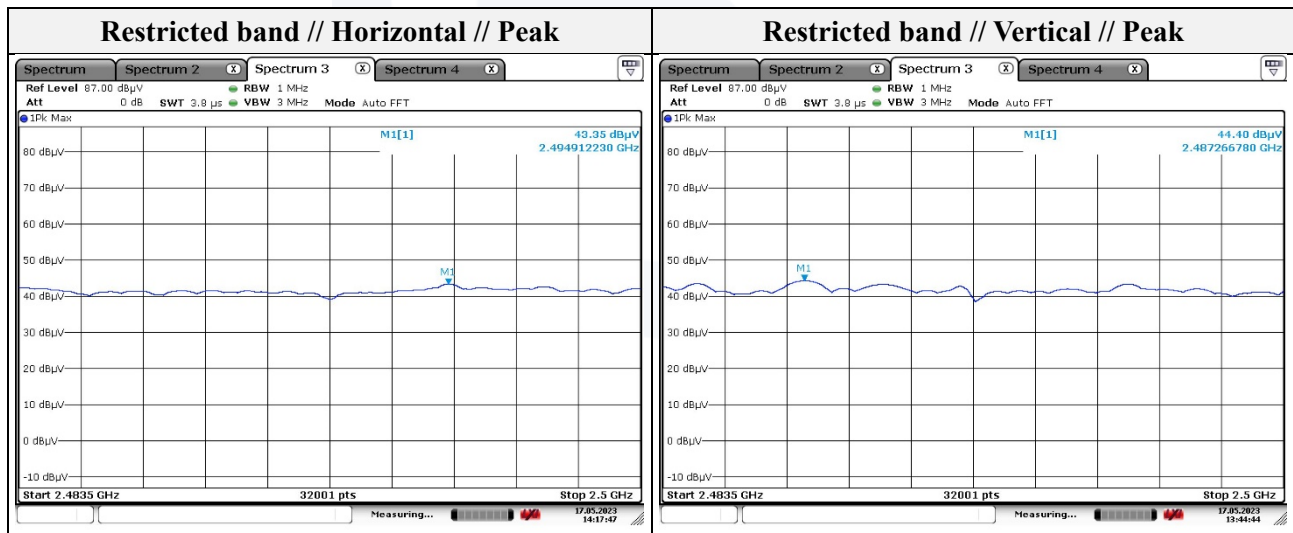
Mode: EDR
Transfer rate: 3 Mbps(Worst case)
Distance of measurement: 3 meter
Channel: 78

- Spurious

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 062.97	46.96	Peak	H	-9.55	-	37.41	74.00	36.59
1 396.58	50.10	Peak	V	-7.00	-	43.10	74.00	30.90
1 595.45	51.47	Peak	V	-6.06	-	45.41	74.00	28.59
2 799.29	45.98	Peak	H	-0.09	-	45.89	74.00	28.11
3 447.88	44.08	Peak	H	0.40	-	44.48	74.00	29.52
4 779.55	43.46	Peak	V	5.04	-	48.50	74.00	25.50

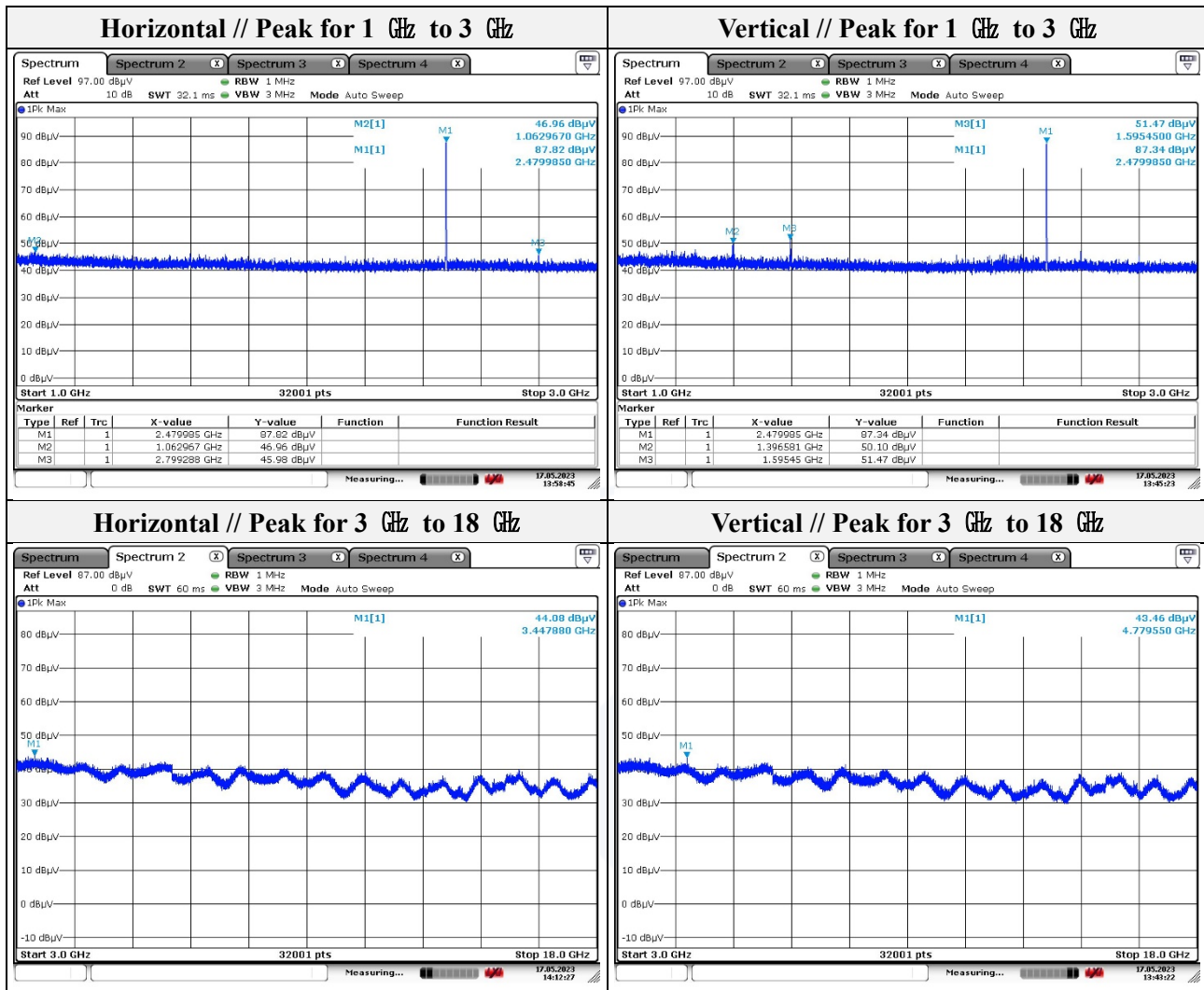
- Band edge

Frequency (MHz)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 389.66	43.54	Peak	H	-1.86	-	41.68	74.00	32.32
2 336.04	45.10	Peak	V	-1.87	-	43.23	74.00	30.77





Report No. : RF-230254



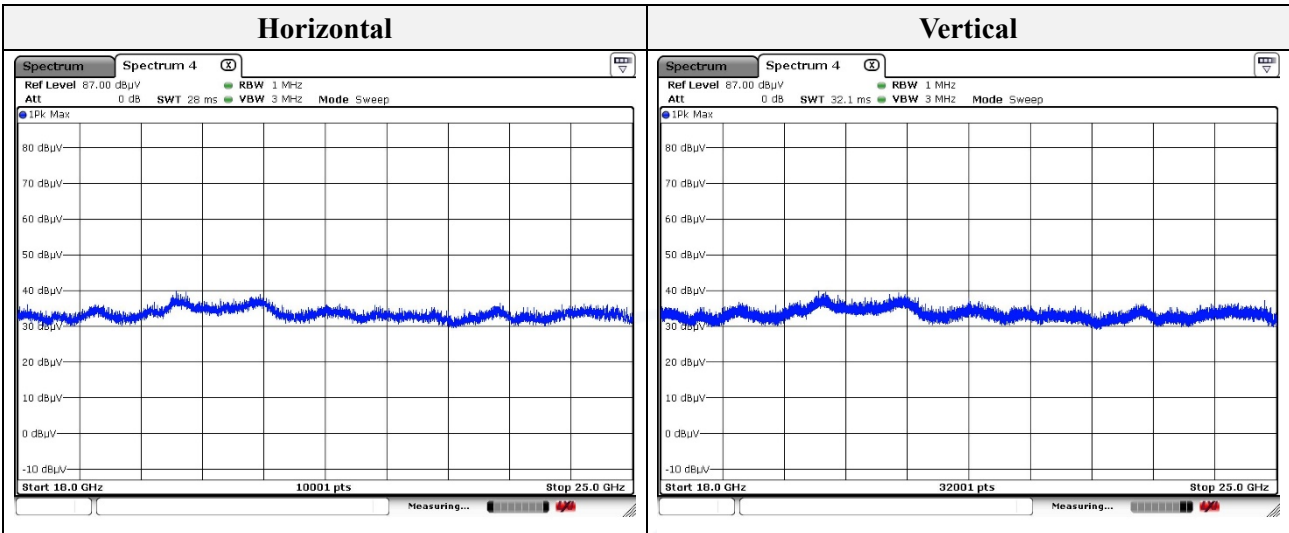
Note.

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



Test results (18 GHz to 25 GHz) – Worst case

Mode:	BDR
Distance of measurement:	3 meter
Channel:	00 (Worst case)



Note.

1. No spurious emission were detected above 18 GHz.