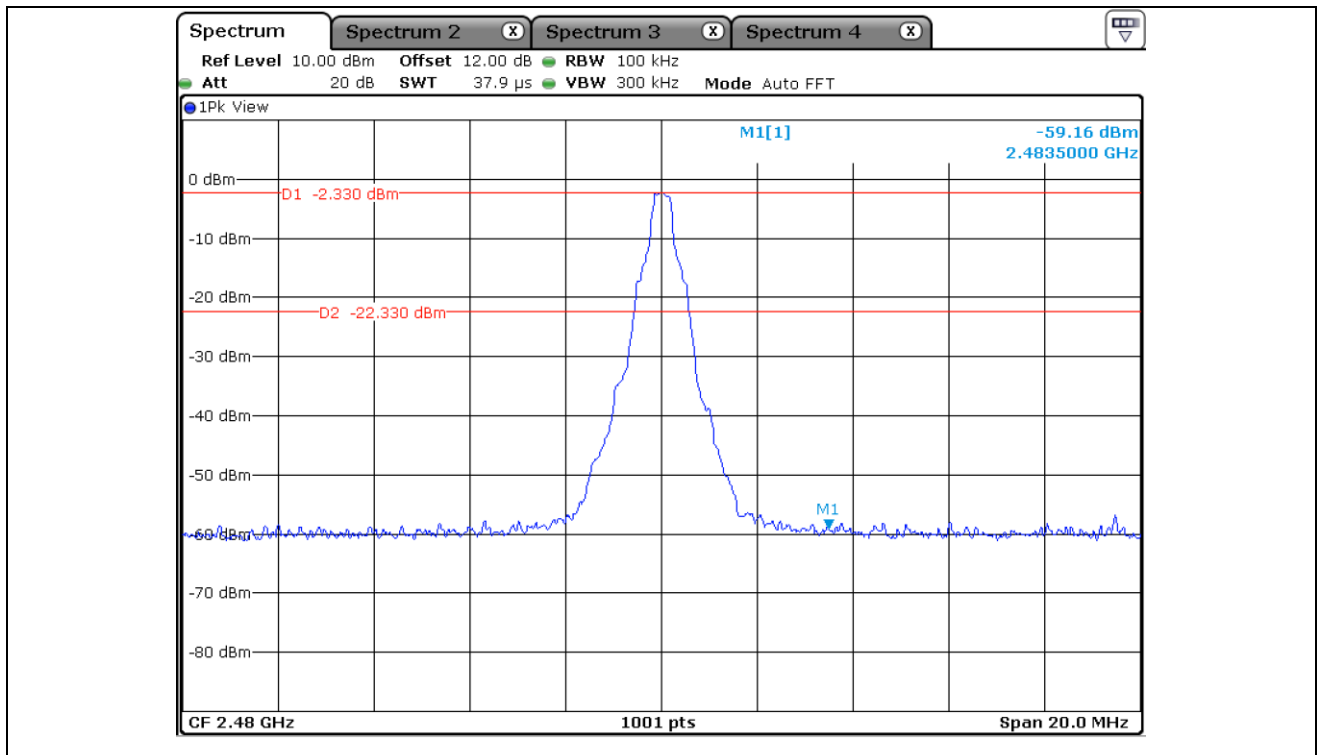
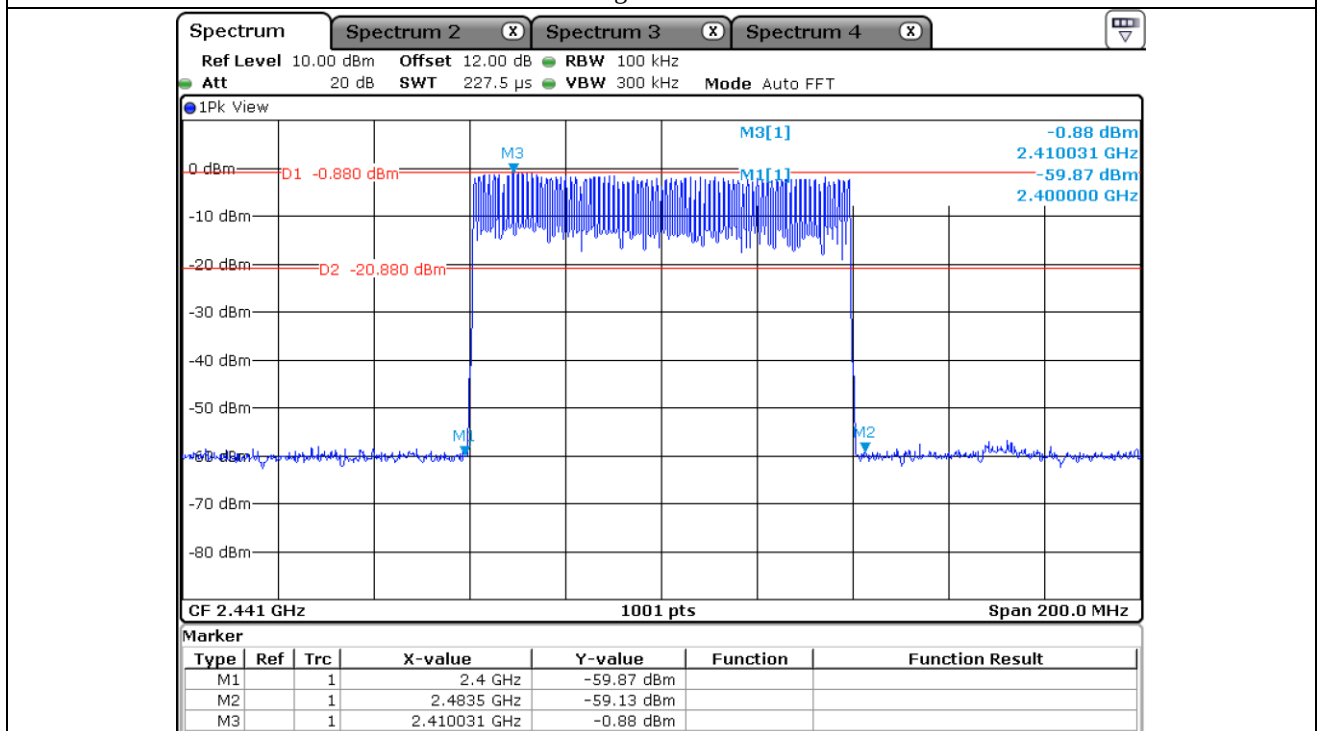
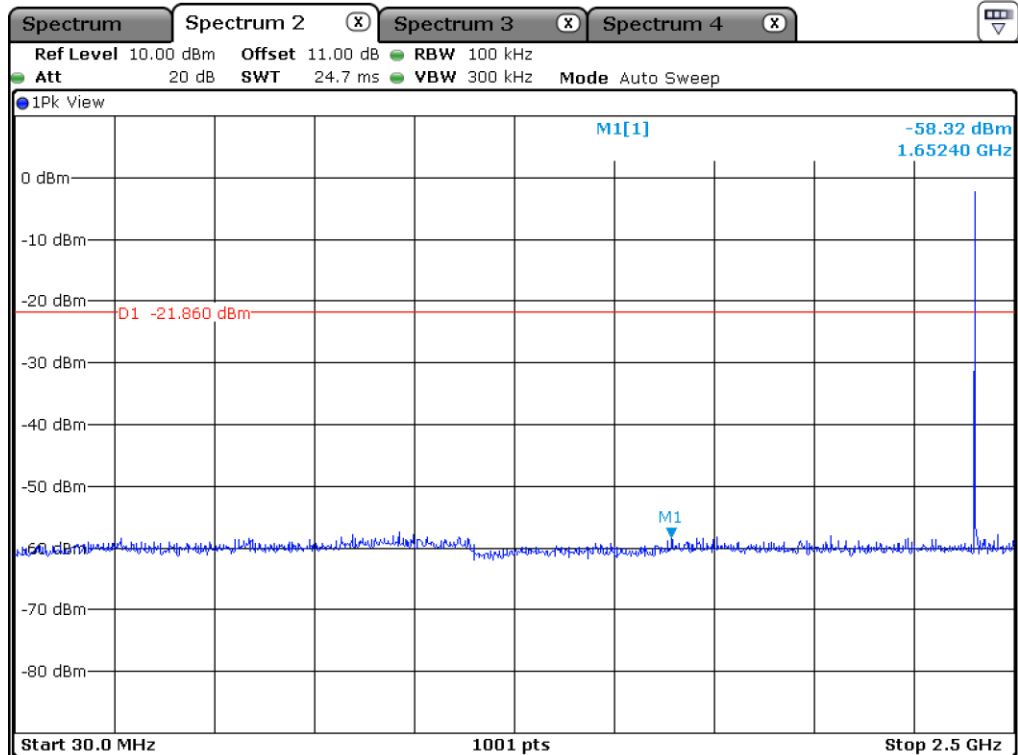




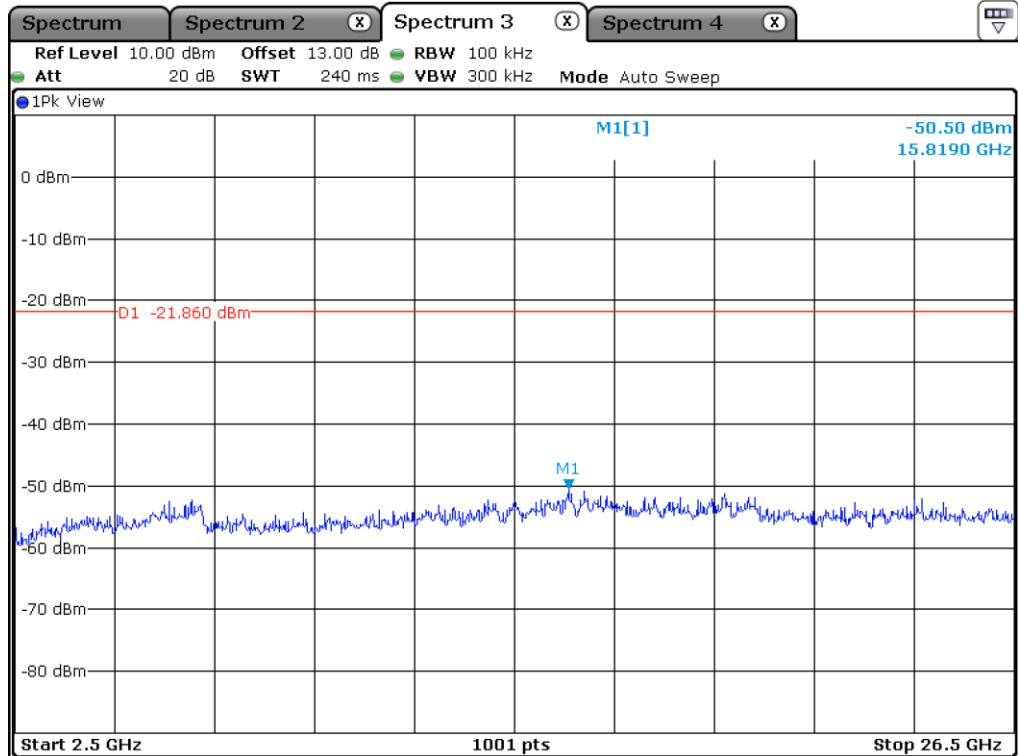
High Channel



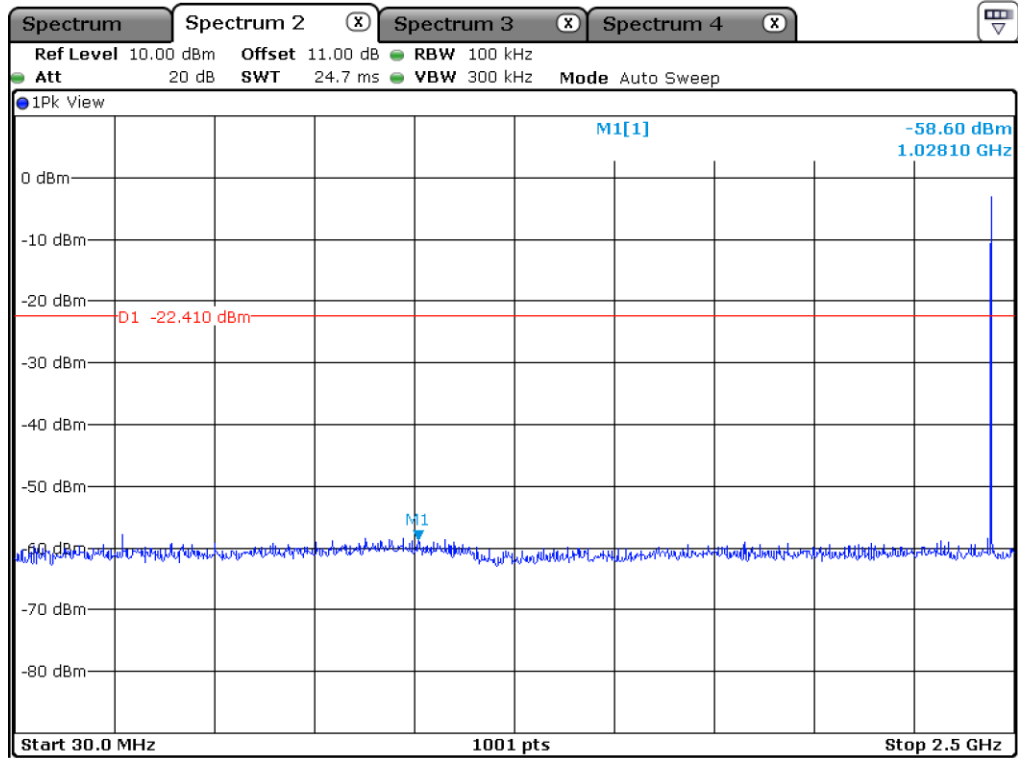
Hopping Mode



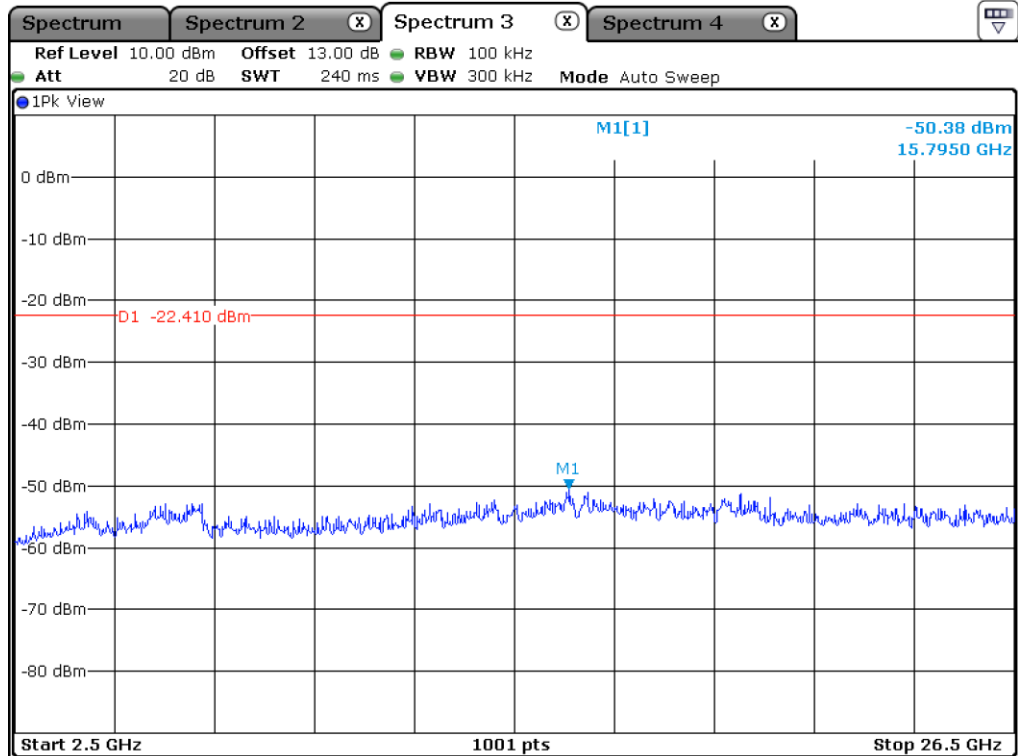
Low Channel



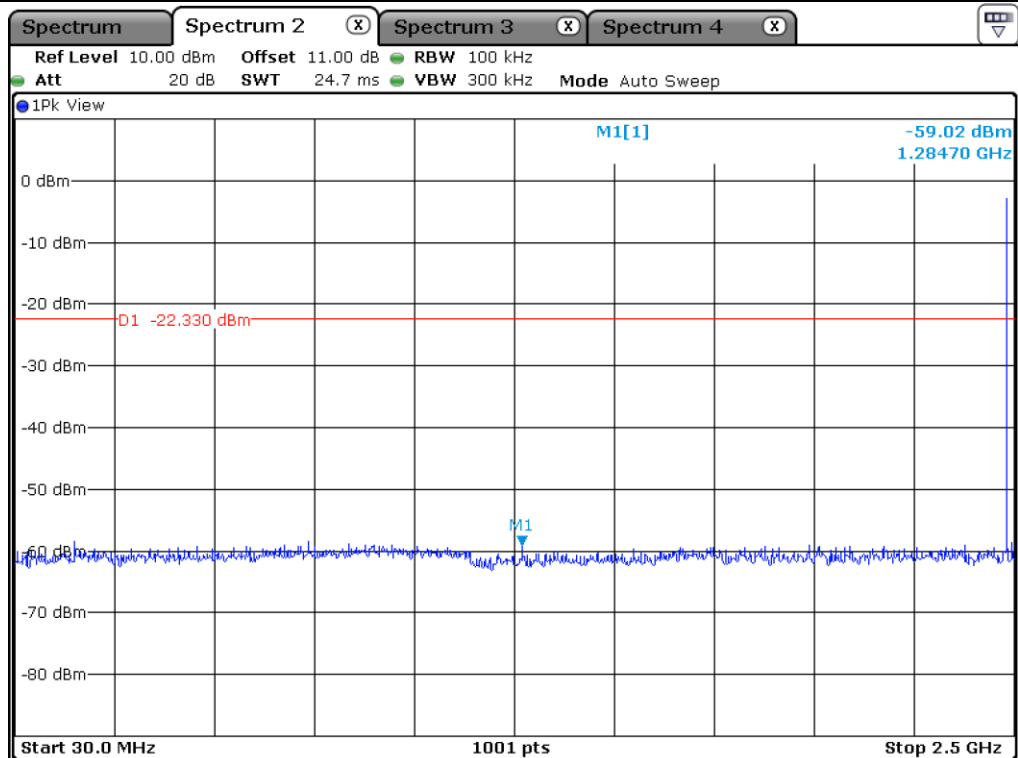
Low Channel



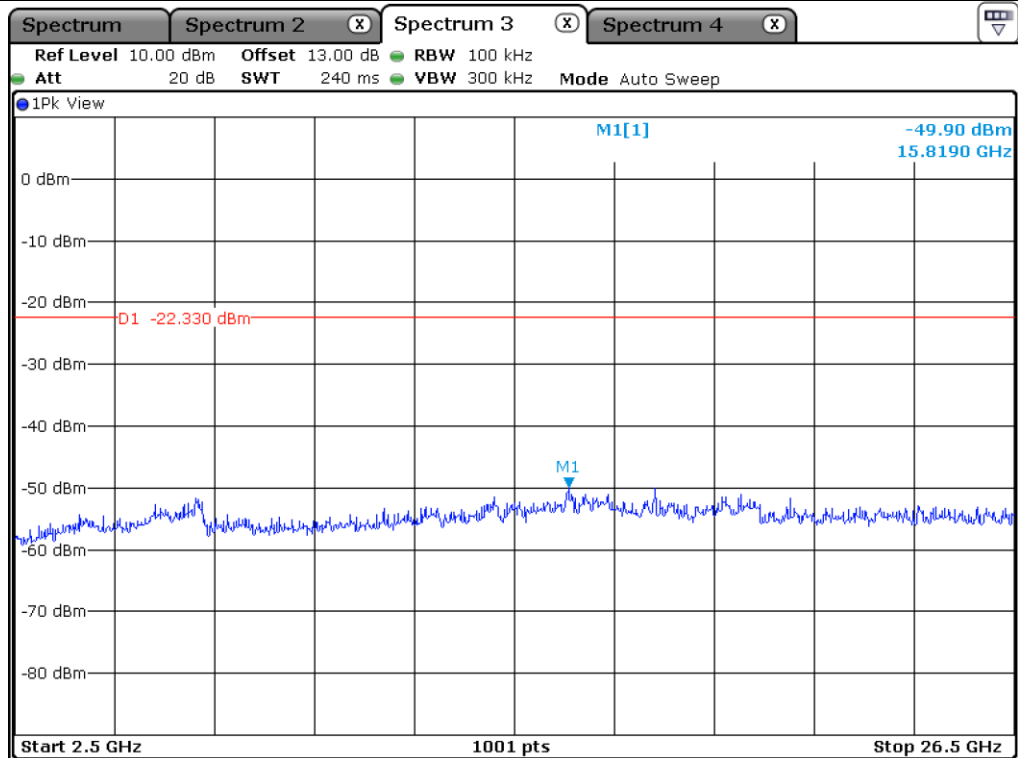
Middle Channel



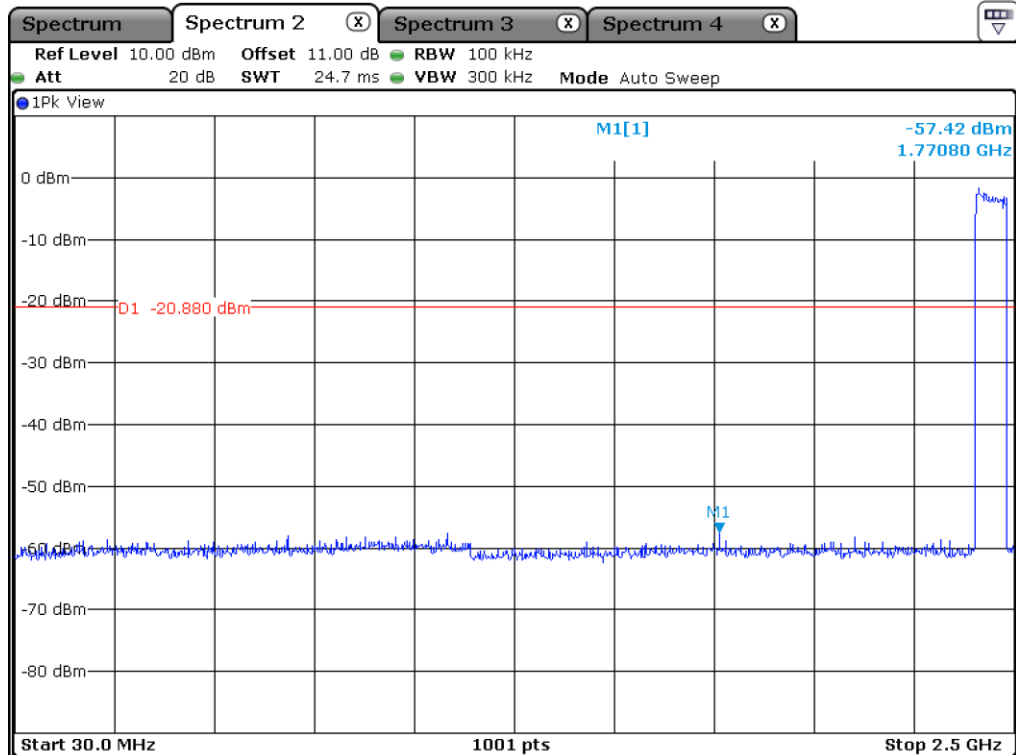
Middle Channel



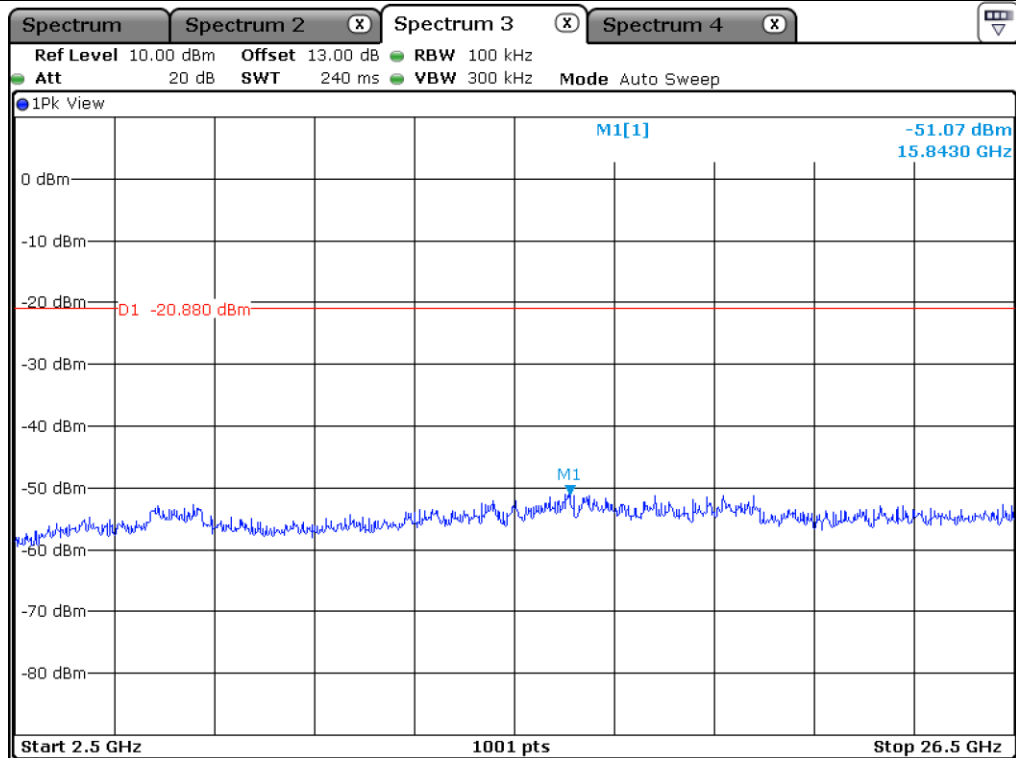
High Channel



High Channel

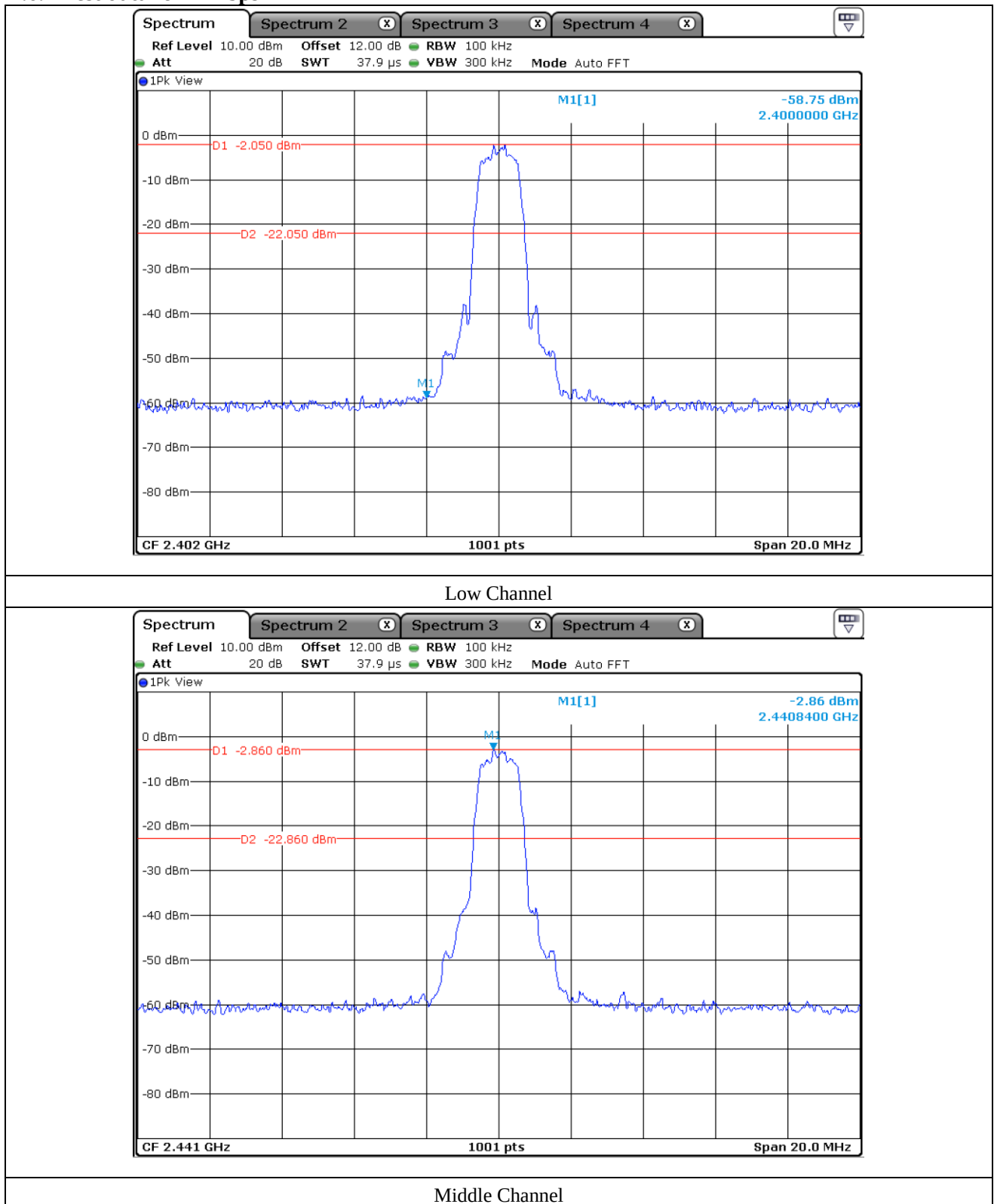


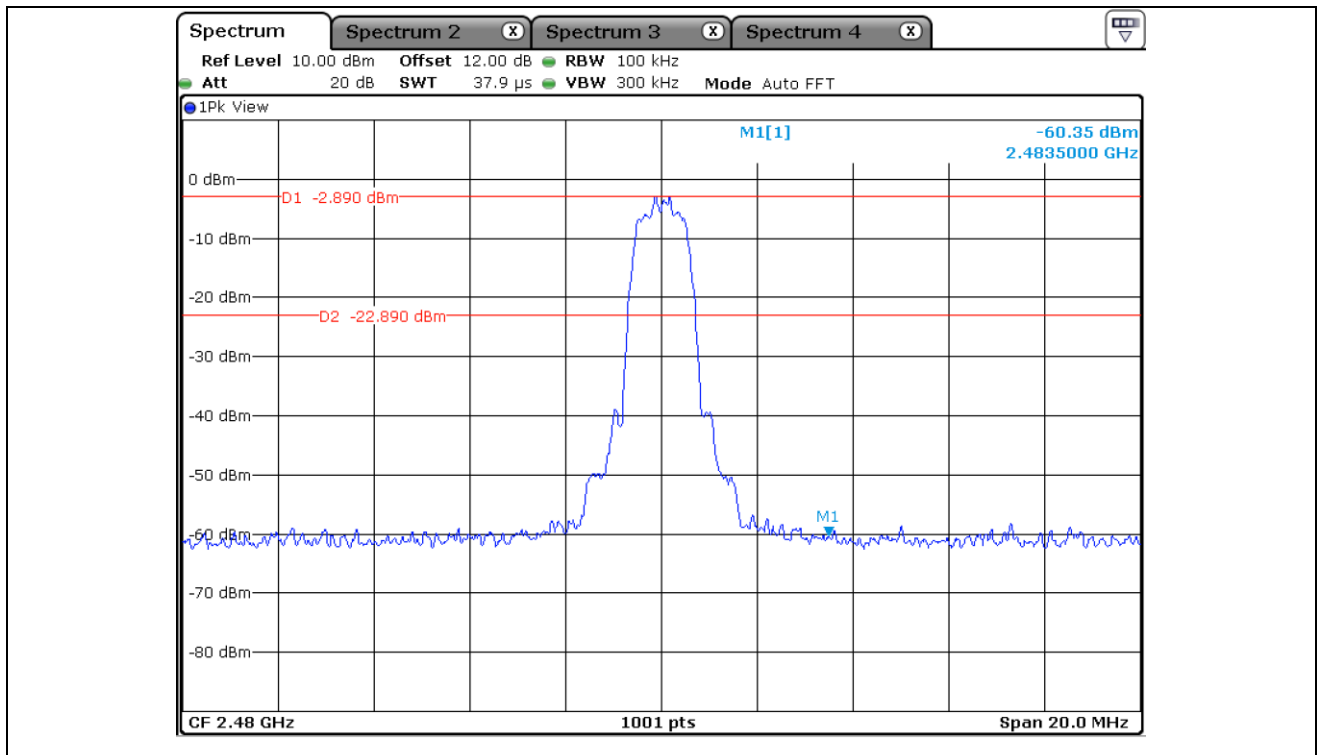
Hopping Mode



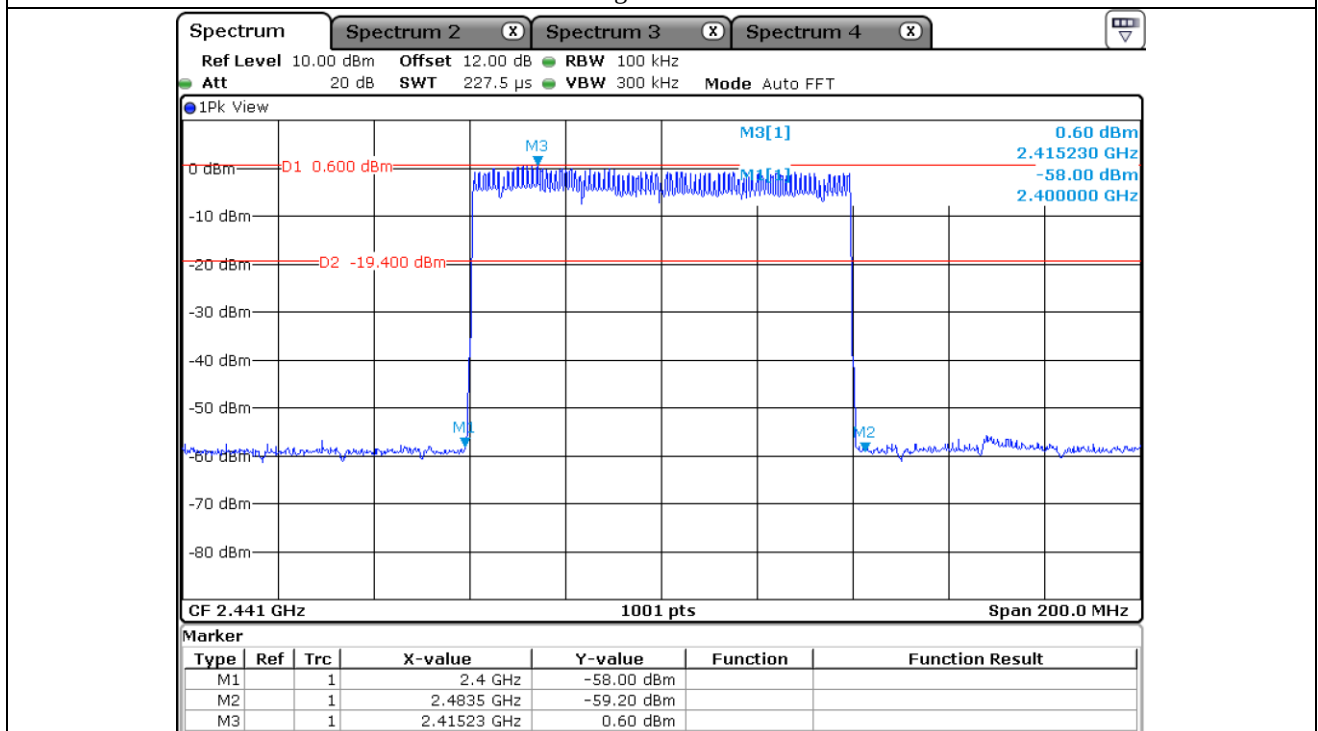
Hopping Mode

12.6.2 Test data for 2 Mbps

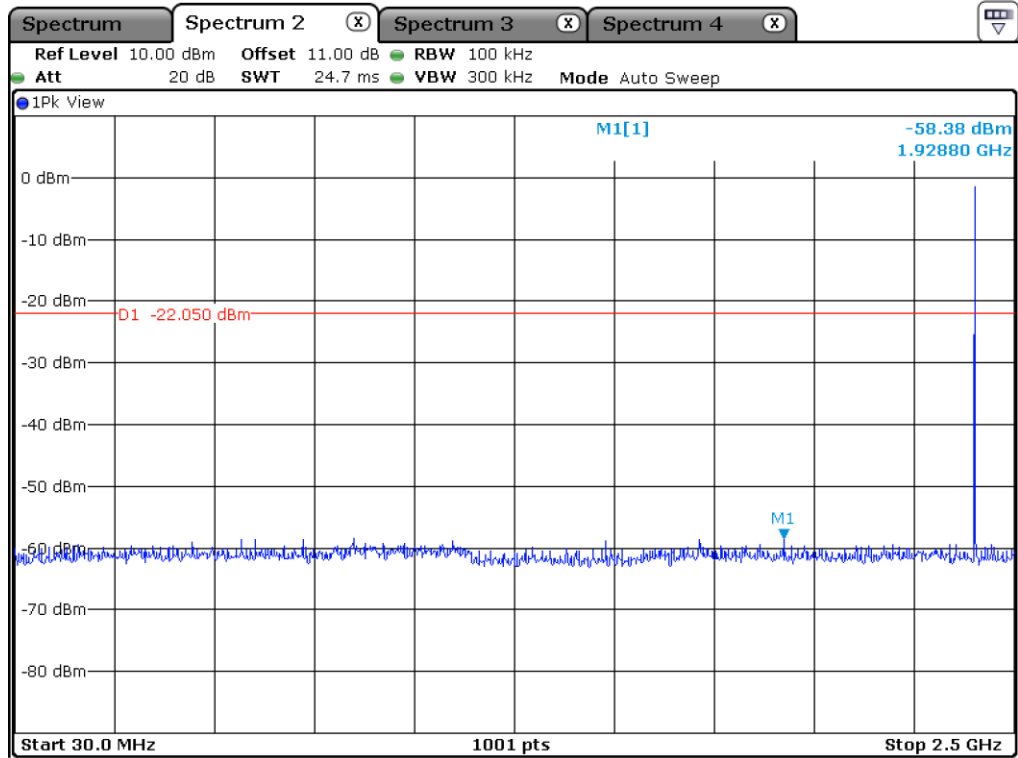




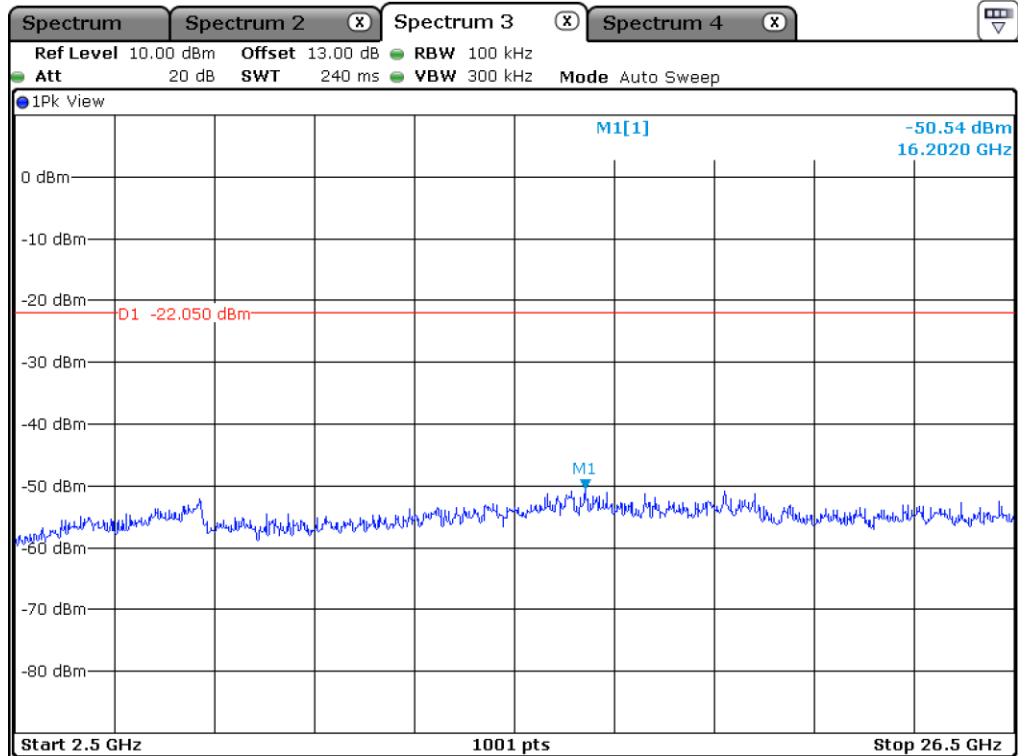
High Channel



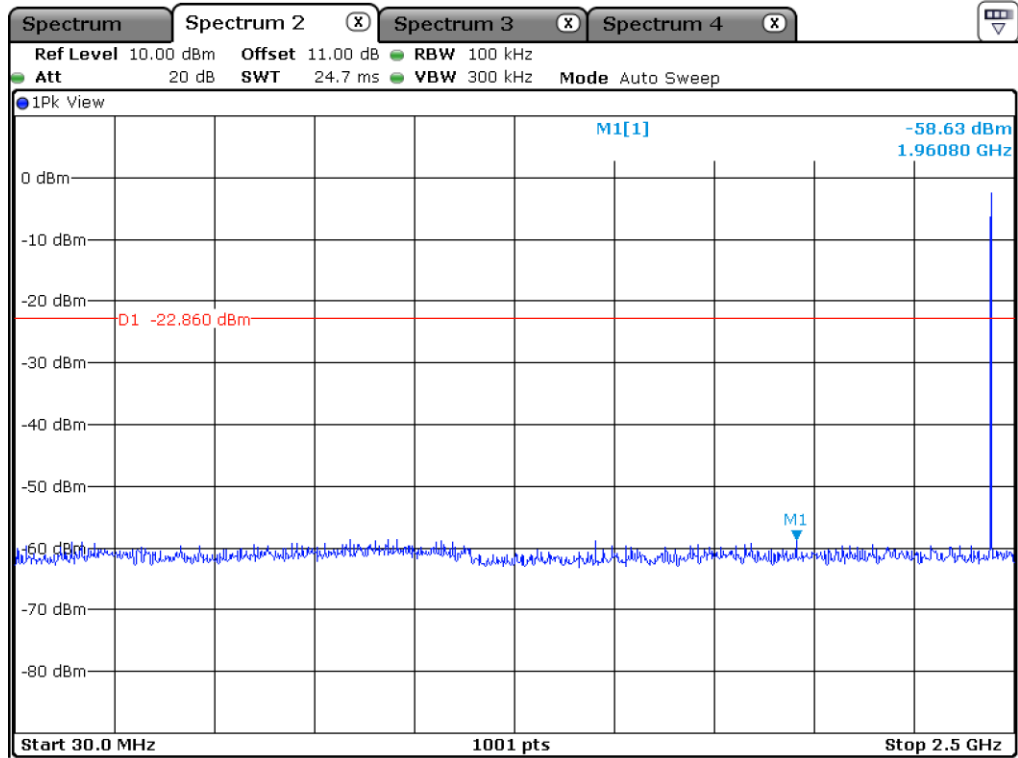
Hopping Mode



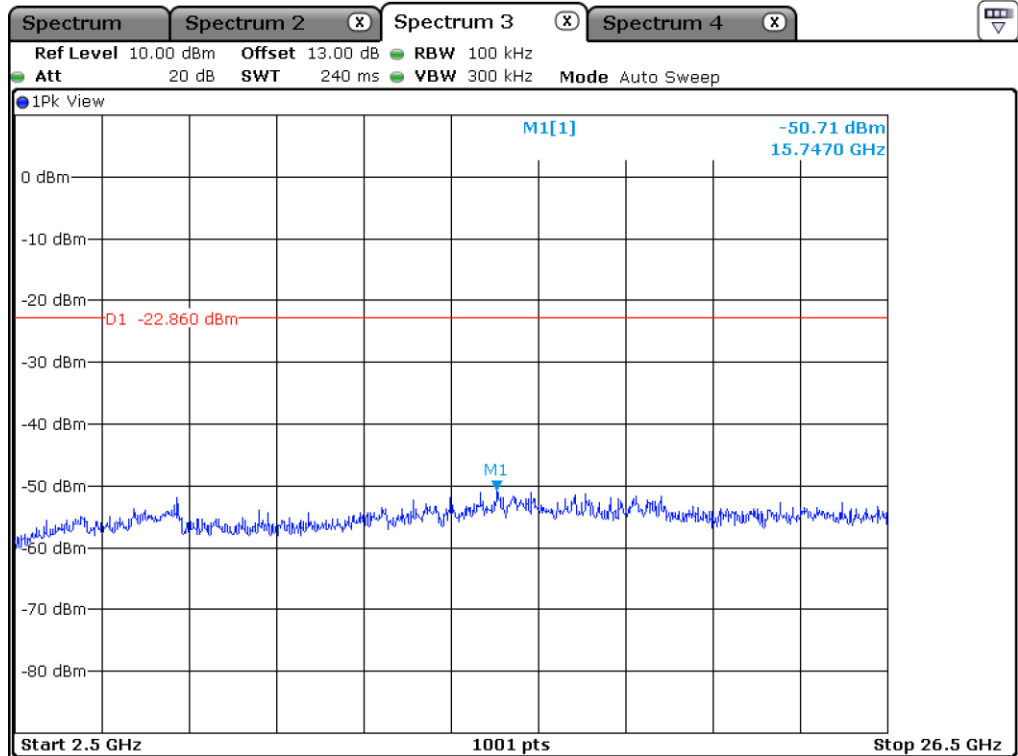
Low Channel



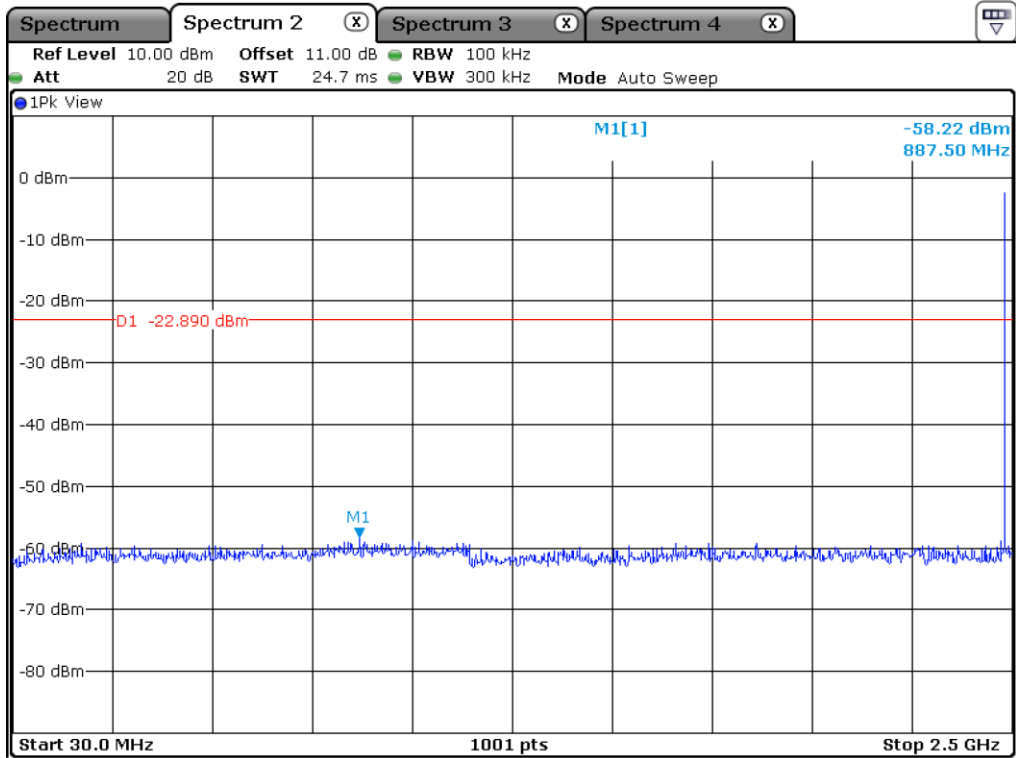
Low Channel



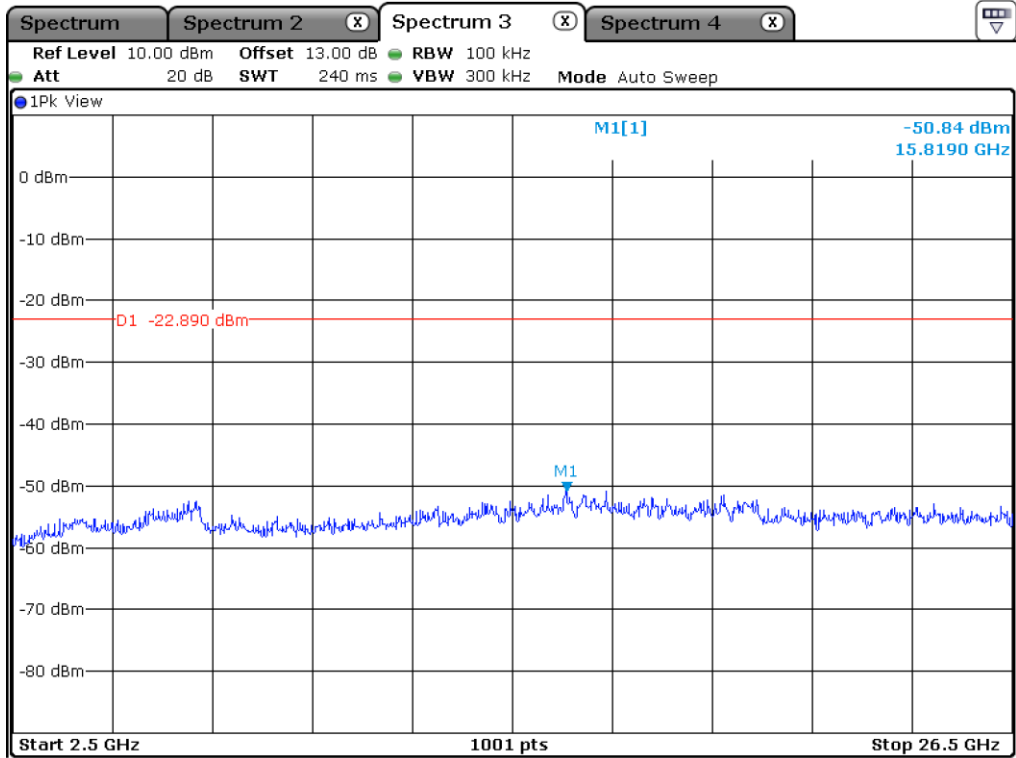
Middle Channel



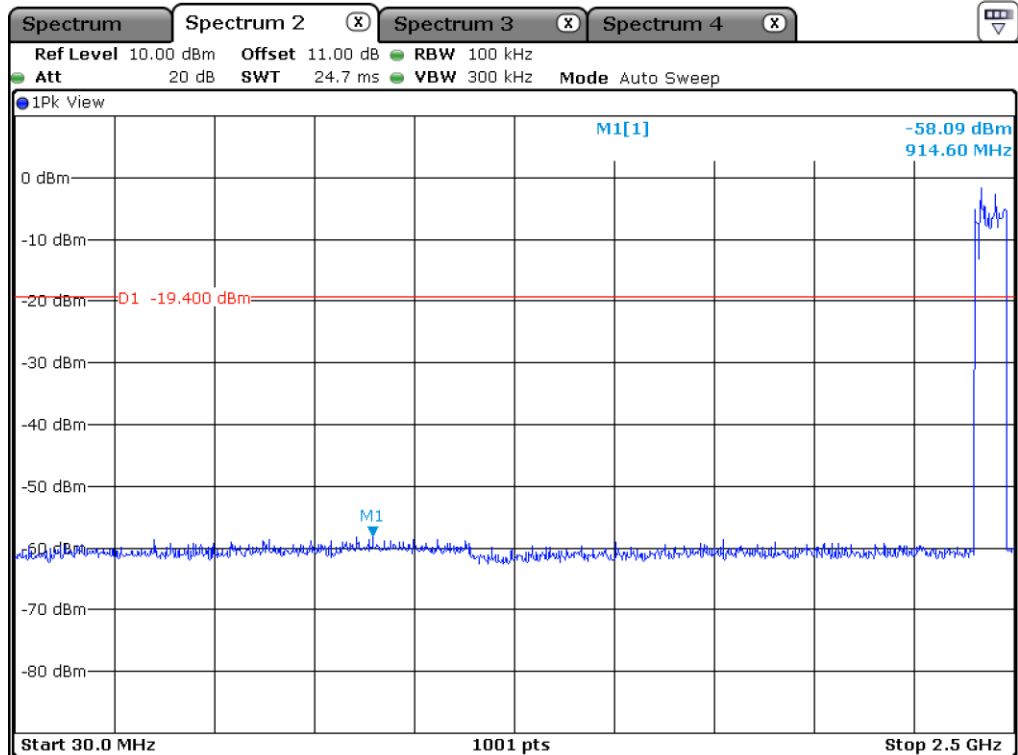
Middle Channel



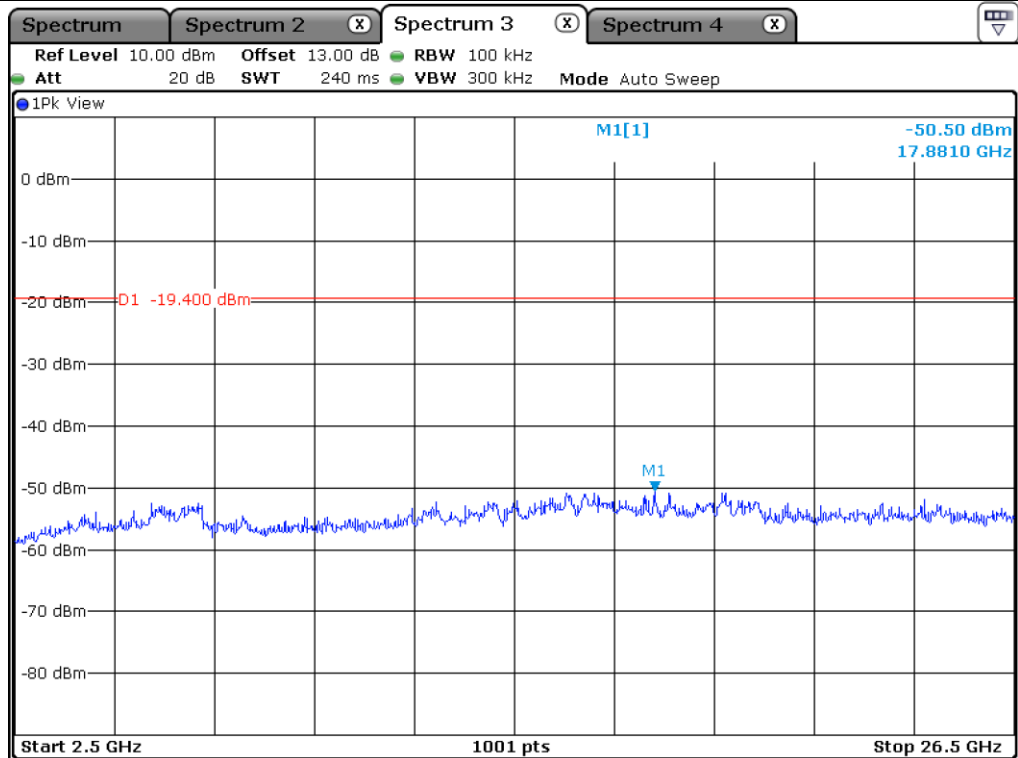
High Channel



High Channel

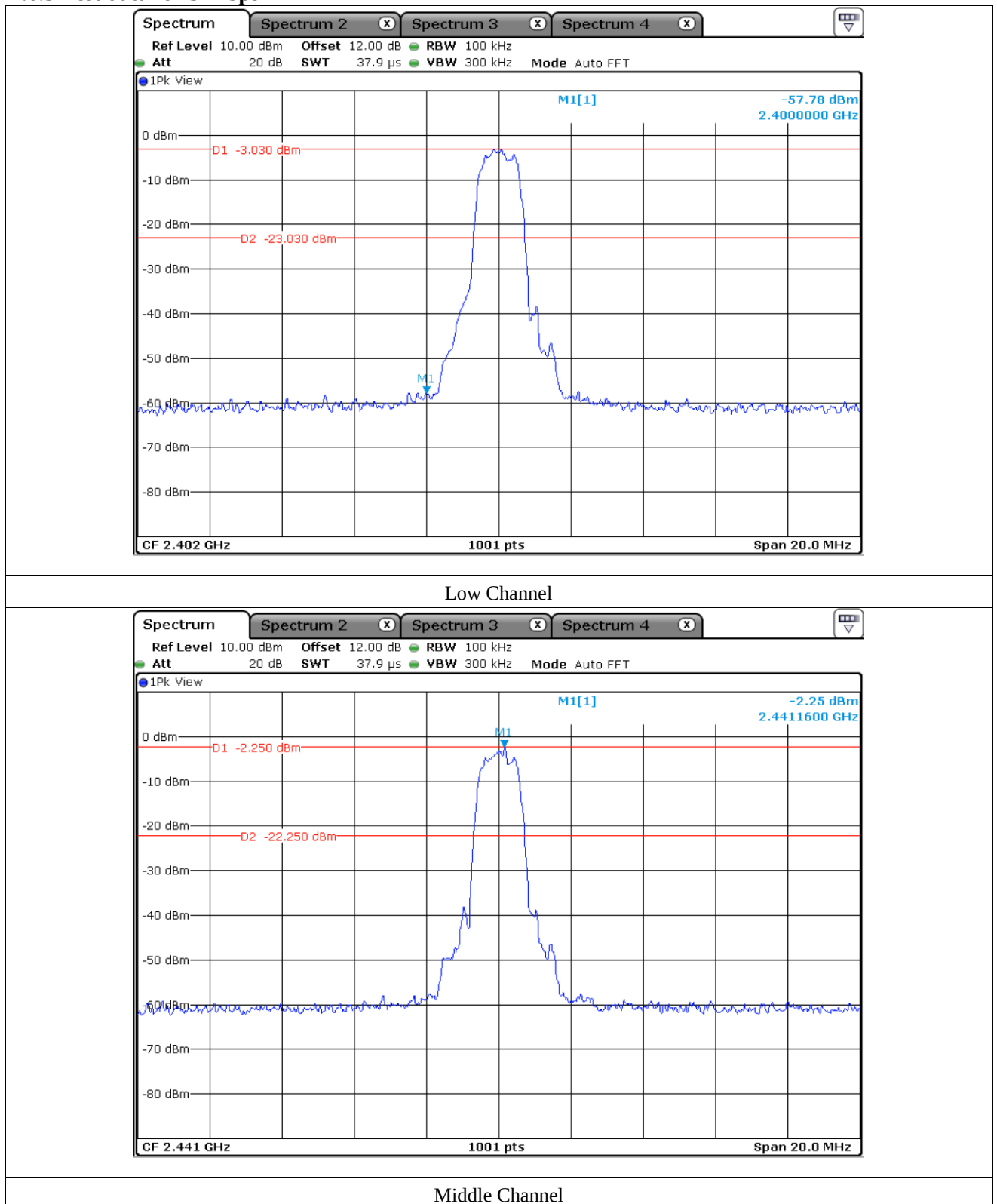


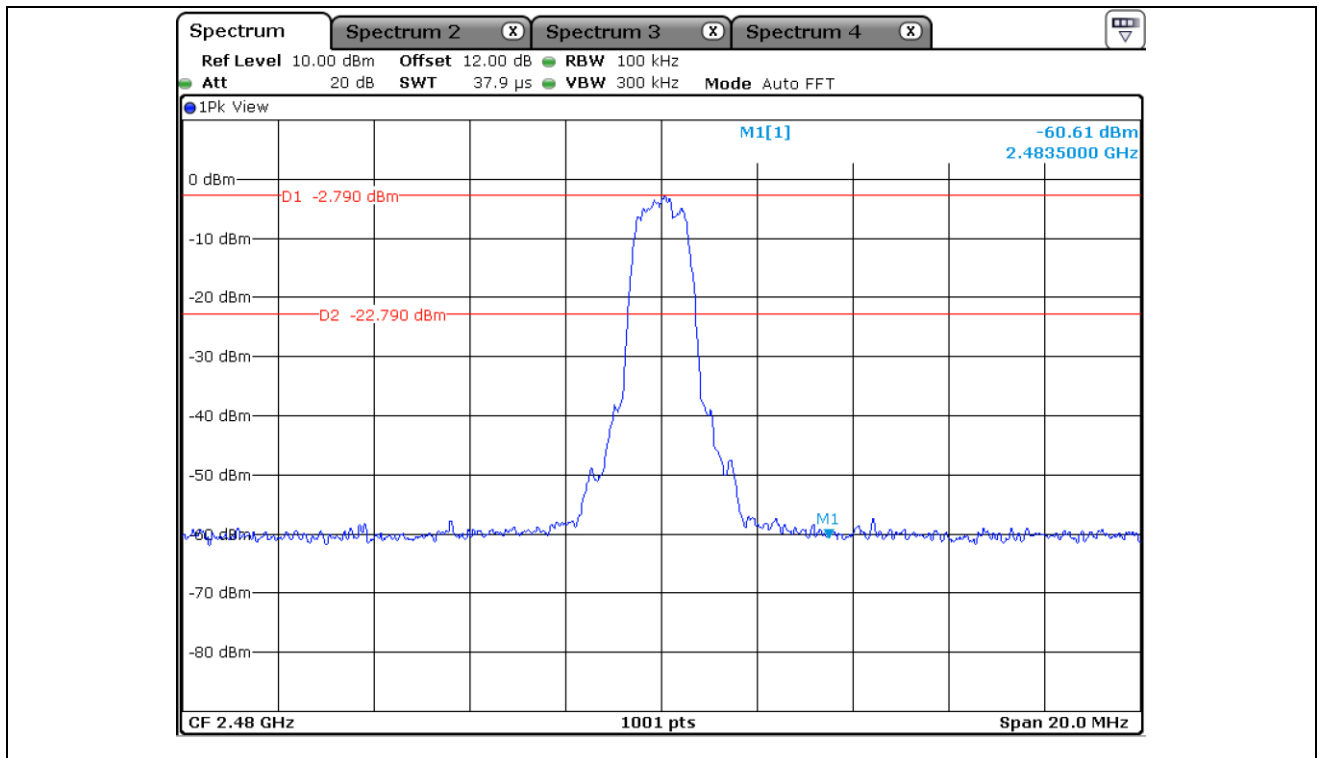
Hopping Mode



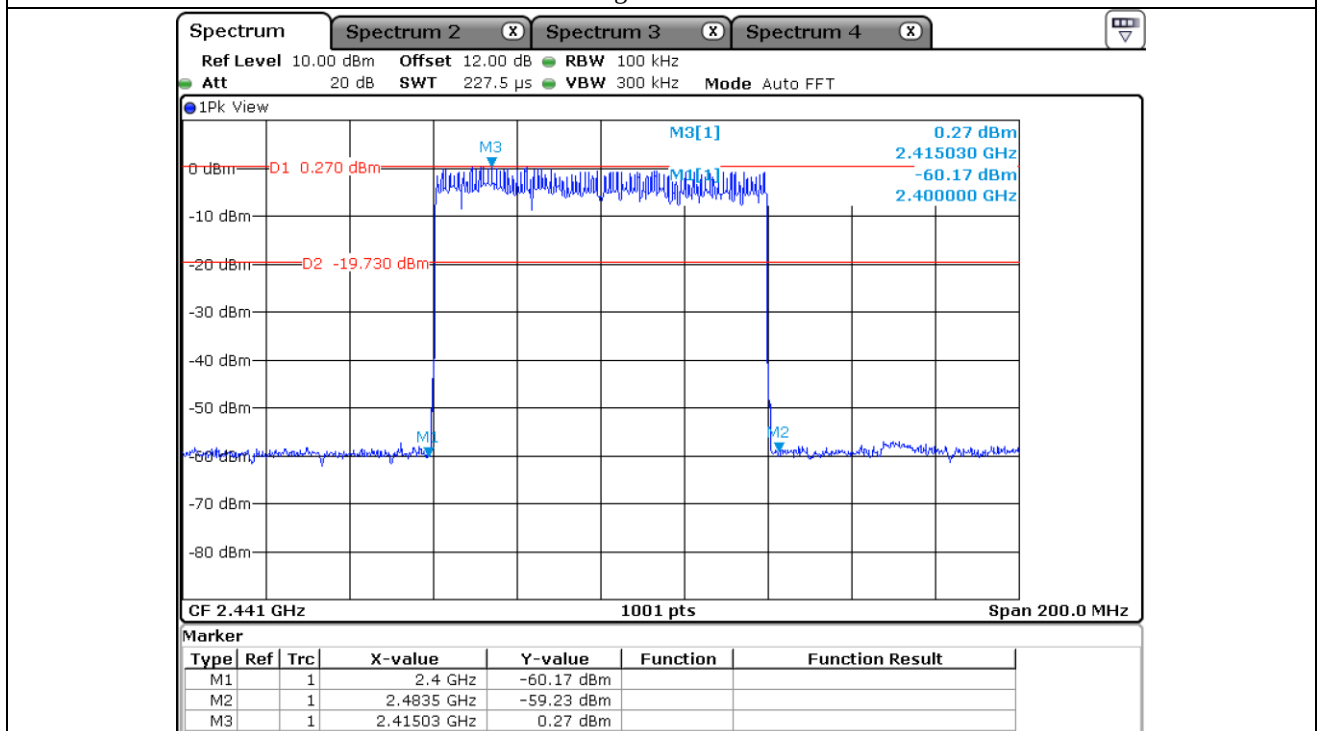
Hopping Mode

12.6.3 Test data for 3 Mbps

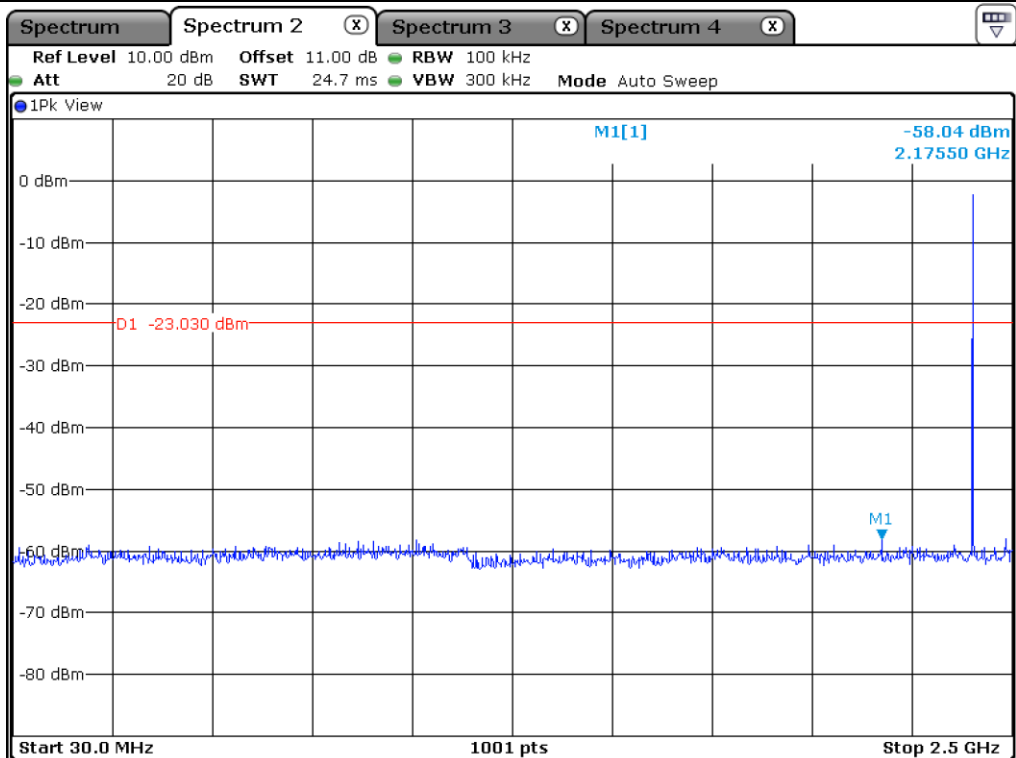




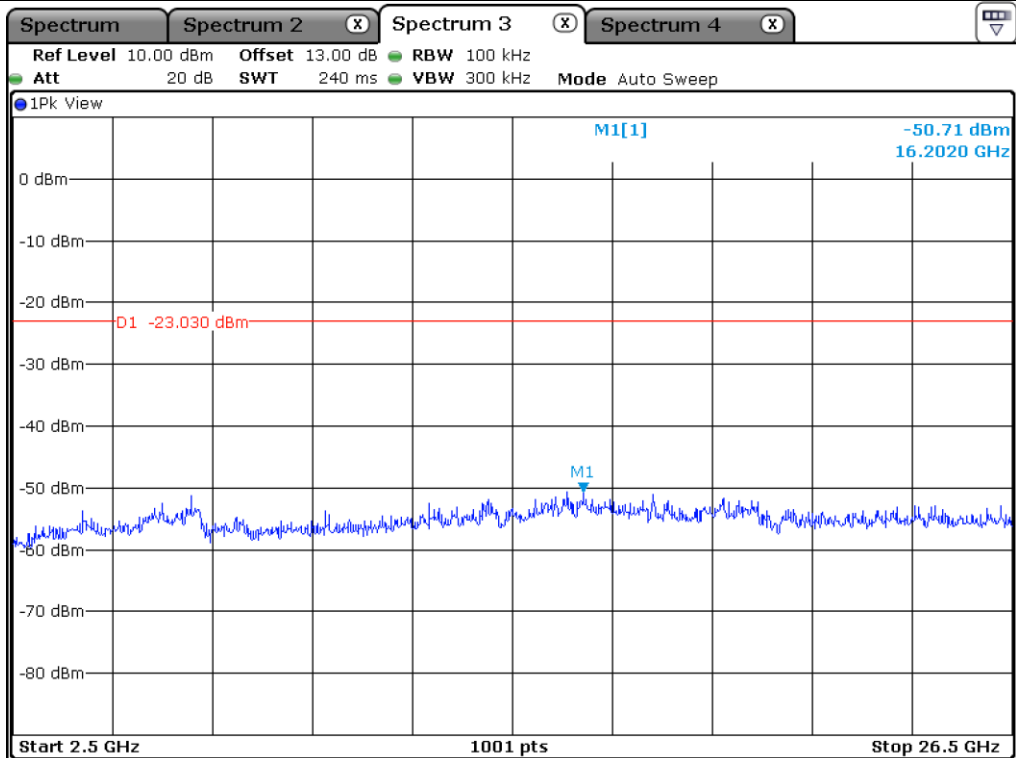
High Channel



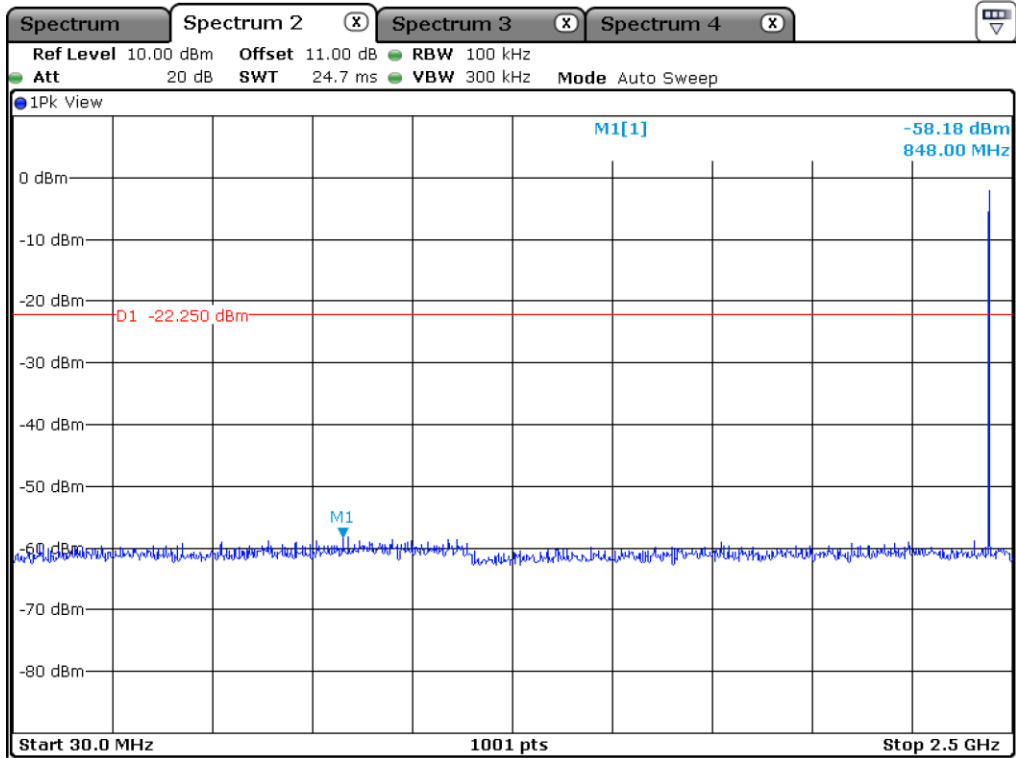
Hopping Mode



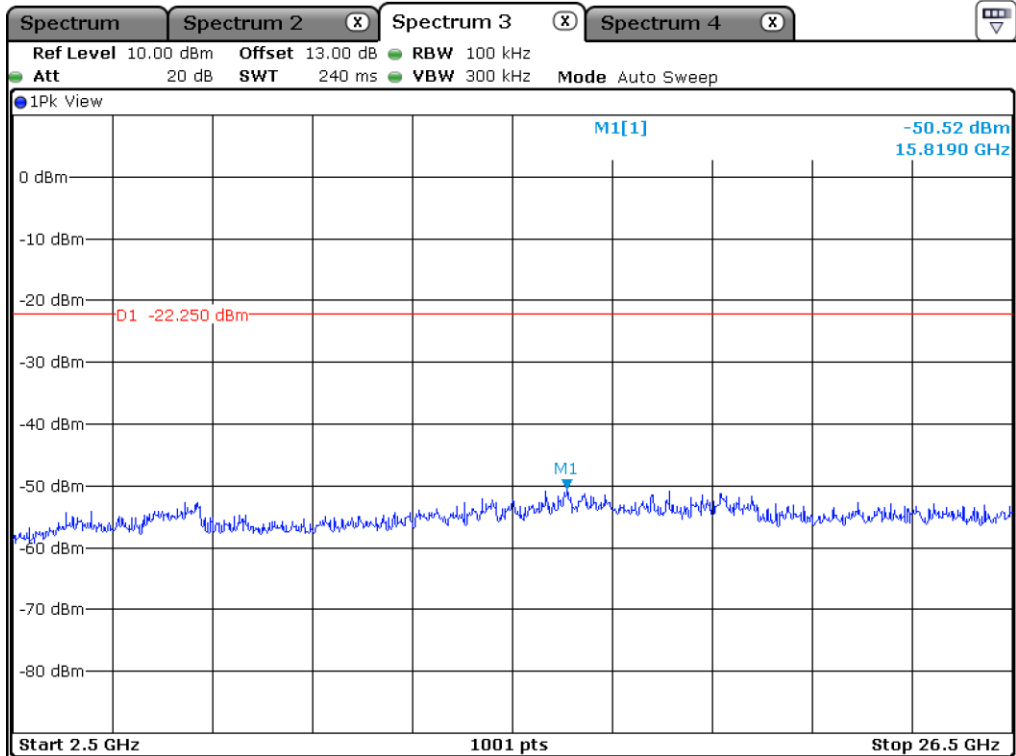
Low Channel



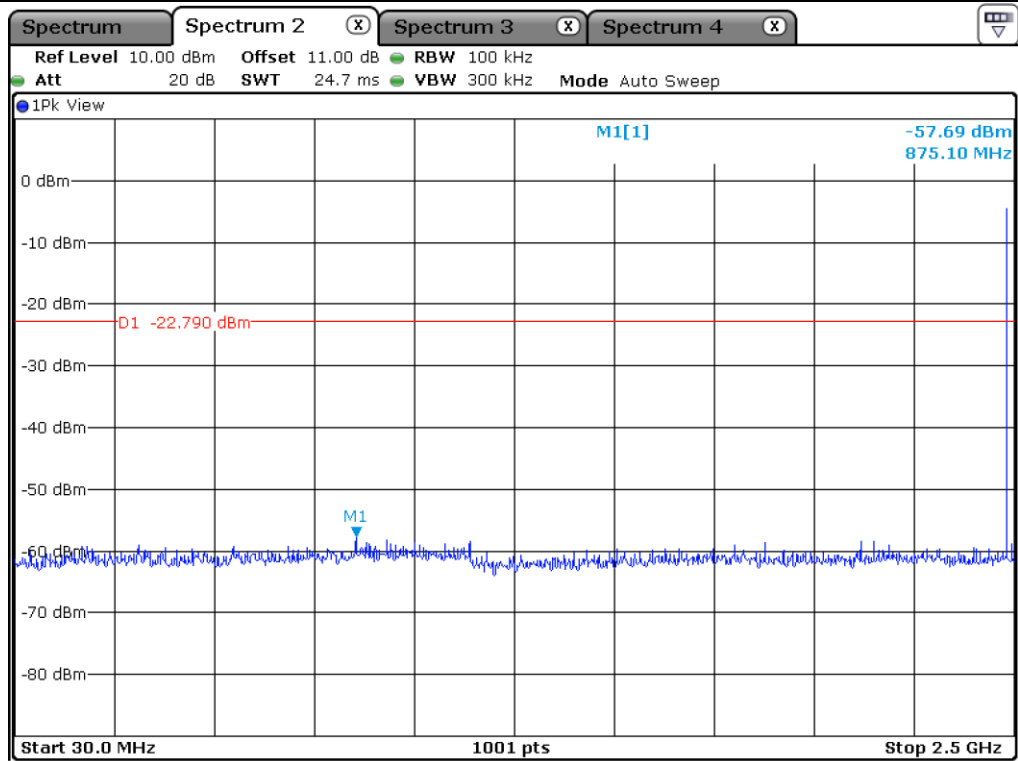
Low Channel



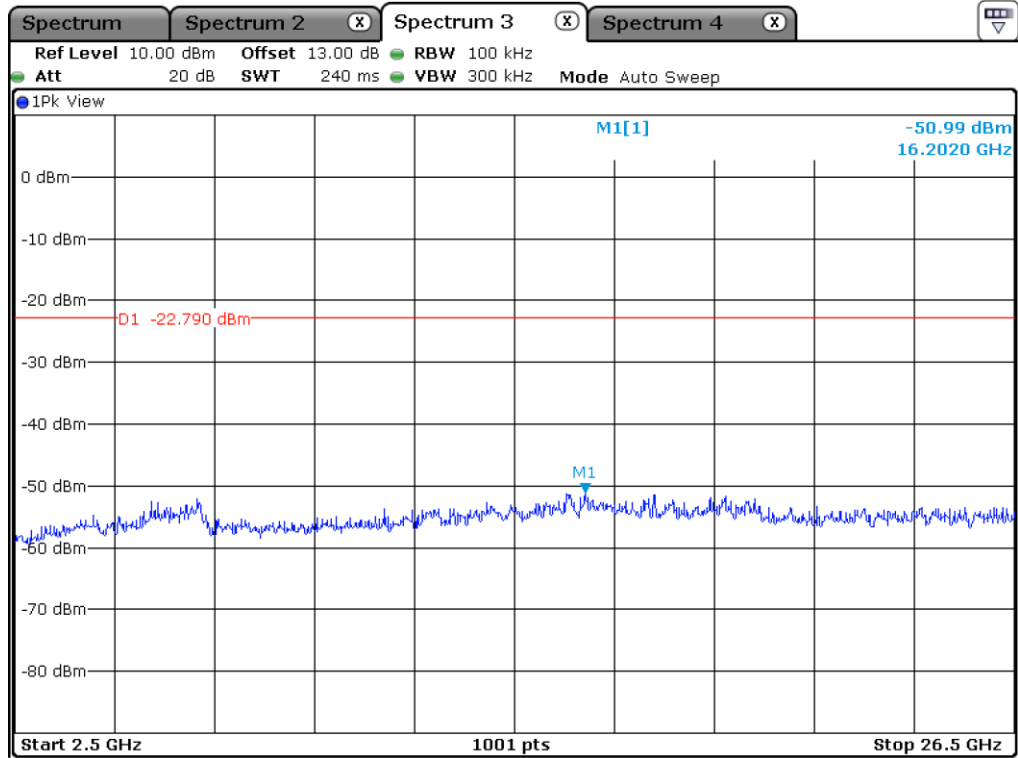
Middle Channel



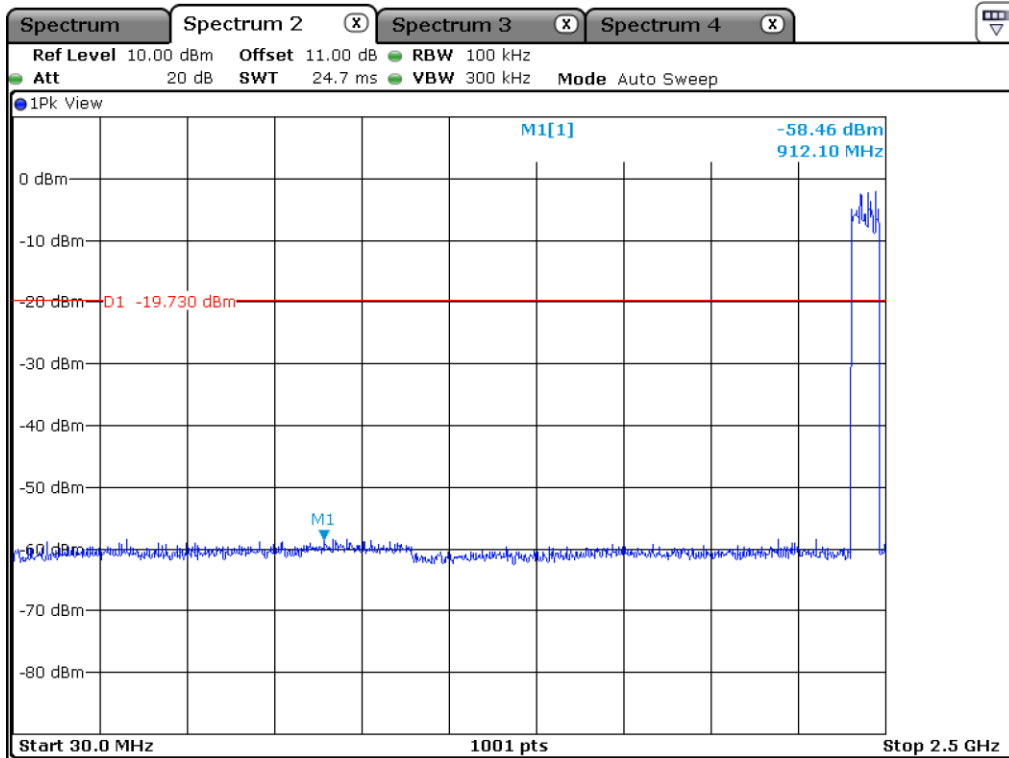
Middle Channel



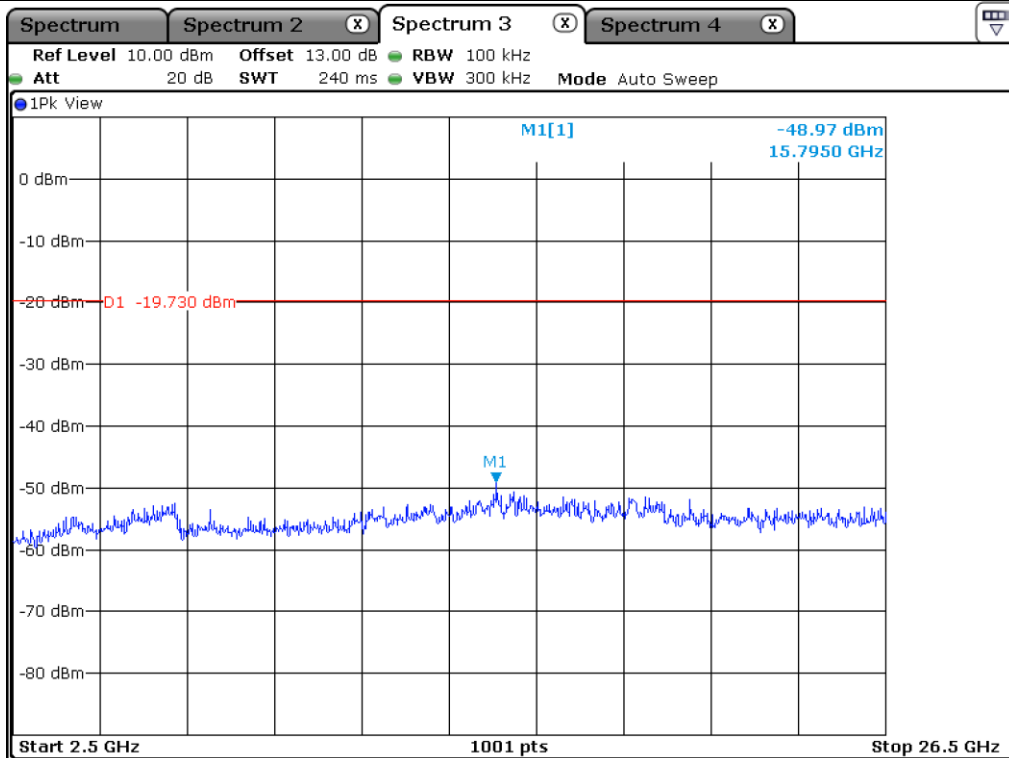
High Channel



High Channel



Hopping Mode



Hopping Mode

12.6 Test data for Transmitting mode radiated emission

12.6.1 Radiated Emission which fall in the Restricted Band (Left Side)

12.6.1.1 Test data for 1 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 71.77 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 342.248	52.22	Peak	H	28.30	8.21	45.31		43.42	74.00	30.58
2 328.981	40.27	Average	H	28.30	8.21	45.31	1.15	32.62	54.00	21.38
2 323.067	52.01	Peak	V	28.30	8.21	45.31		43.21	74.00	30.79
2 316.354	40.09	Average	V	28.30	8.21	45.31	1.15	32.44	54.00	21.56
Test Data for High Channel										
2 483.755	51.69	Peak	H	28.80	8.33	45.81		43.01	74.00	30.99
2 483.805	40.12	Average	H	28.80	8.33	45.81	1.15	32.59	54.00	21.41
2 499.745	51.44	Peak	V	28.80	8.33	45.81		42.76	74.00	31.24
2 499.827	41.93	Average	V	28.80	8.33	45.81	1.15	34.40	54.00	19.60

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.1.2 Test data for 2 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.83 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 370.699	52.53	Peak	H	28.30	8.21	45.31		43.73	74.00	30.27
2 318.511	40.33	Average	H	28.30	8.21	45.31	1.14	32.67	54.00	21.33
2 388.521	51.15	Peak	V	28.30	8.21	45.31		42.35	74.00	31.65
2 311.239	40.15	Average	V	28.30	8.21	45.31	1.14	32.49	54.00	21.51
Test Data for High Channel										
2 486.327	51.96	Peak	H	28.80	8.33	45.81		43.28	74.00	30.72
2 497.717	40.05	Average	H	28.80	8.33	45.81	1.14	32.51	54.00	21.49
2 499.090	52.11	Peak	V	28.80	8.33	45.81		43.43	74.00	30.57
2 499.860	41.84	Average	V	28.80	8.33	45.81	1.14	34.30	54.00	19.70

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Factor + Correction Factor

12.6.1.3 Test data for 3 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 77.20 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 365.984	52.12	Peak	H	28.30	8.21	45.31		43.32	74.00	30.68
2 337.133	40.34	Average	H	28.30	8.21	45.31	1.12	32.66	54.00	21.34
2 357.033	52.30	Peak	V	28.30	8.21	45.31		43.50	74.00	30.50
2 347.522	40.14	Average	V	28.30	8.21	45.31	1.12	32.46	54.00	21.54
Test Data for High Channel										
2 487.794	51.46	Peak	H	28.80	8.33	45.81		42.78	74.00	31.22
2 489.310	40.13	Average	H	28.80	8.33	45.81	1.12	32.57	54.00	21.43
2 499.365	52.25	Peak	V	28.80	8.33	45.81		43.57	74.00	30.43
2 499.810	41.74	Average	V	28.80	8.33	45.81	1.12	34.18	54.00	19.82

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Factor + Correction Factor

12.6.2 Radiated Emission which fall in the Restricted Band (Right Side)

12.6.2.1 Test data for 1 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Measurement distance : 3 m
- Duty Cycle : 77.17 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 376.853	52.83	Peak	H	28.30	8.21	45.31		44.03	74.00	29.97
2 317.632	40.41	Average	H	28.30	8.21	45.31	1.13	32.74	54.00	21.26
2 330.100	52.10	Peak	V	28.30	8.21	45.31		43.30	74.00	30.70
2 337.692	40.24	Average	V	28.30	8.21	45.31	1.13	32.57	54.00	21.43
Test Data for High Channel										
2 490.201	51.75	Peak	H	28.80	8.33	45.81		43.07	74.00	30.93
2 485.338	39.85	Average	H	28.80	8.33	45.81	1.13	32.30	54.00	21.70
2 488.470	53.00	Peak	V	28.80	8.33	45.81		44.32	74.00	29.68
2 488.668	40.49	Average	V	28.80	8.33	45.81	1.13	32.94	54.00	21.06

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.2.2 Test data for 2 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 77.26 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 363.906	52.14	Peak	H	28.30	8.21	45.31		43.34	74.00	30.66
2 317.313	40.40	Average	H	28.30	8.21	45.31	1.12	32.72	54.00	21.28
2 372.378	51.95	Peak	V	28.30	8.21	45.31		43.15	74.00	30.85
2 337.293	40.39	Average	V	28.30	8.21	45.31	1.12	32.71	54.00	21.29
Test Data for High Channel										
2 496.580	51.38	Peak	H	28.80	8.33	45.81		42.70	74.00	31.30
2 487.547	40.06	Average	H	28.80	8.33	45.81	1.12	32.50	54.00	21.50
2 487.365	52.24	Peak	V	28.80	8.33	45.81		43.56	74.00	30.44
2 488.157	40.39	Average	V	28.80	8.33	45.81	1.12	32.83	54.00	21.17

Tabulated test data for Restricted Band

Remark: “H”: Horizontal, “V”: Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Factor + Correction Factor

12.6.2.3 Test data for 3 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Measurement distance : 3 m
- . Duty Cycle : 76.90 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 342.967	51.20	Peak	H	28.30	8.21	45.31		42.40	74.00	31.60
2 319.391	39.93	Average	H	28.30	8.21	45.31	1.14	32.27	54.00	21.73
2 347.443	51.77	Peak	V	28.30	8.21	45.31		42.97	74.00	31.03
2 311.558	39.95	Average	V	28.30	8.21	45.31	1.14	32.29	54.00	21.71
Test Data for High Channel										
2 485.223	50.66	Peak	H	28.80	8.33	45.81		41.98	74.00	32.02
2 490.876	38.75	Average	H	28.80	8.33	45.81	1.14	31.21	54.00	22.79
2 484.794	53.19	Peak	V	28.80	8.33	45.81		44.51	74.00	29.49
2 499.893	40.22	Average	V	28.80	8.33	45.81	1.14	32.68	54.00	21.32

Tabulated test data for Restricted Band

Remark: "H": Horizontal, "V": Vertical

Margin (dB) = Limits (dBμV/m) - Total Level (dBμV/m)

Total Level = Reading + Antenna Factor + Cable Loss – AMP Factor + Correction Factor

12.6.3 Spurious & Harmonic Radiated Emission above 1 GHz (Left Side)

12.6.3.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Duty Cycle : 76.77 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	50.02	Peak	H	33.40	11.18	46.33		48.27	74.00	25.73
4 804.000	37.21	Average	H	33.40	11.18	46.33	1.15	36.61	54.00	17.39
4 804.000	50.12	Peak	V	33.40	11.18	46.33		48.37	74.00	25.63
4 804.000	37.29	Average	V	33.40	11.18	46.33	1.15	36.69	54.00	17.31
Test Data for Middle Channel										
4 882.000	50.20	Peak	H	33.30	11.31	46.35		48.46	74.00	25.54
4 882.000	37.33	Average	H	33.30	11.31	46.35	1.15	36.74	54.00	17.26
4 882.000	50.04	Peak	V	33.30	11.31	46.35		48.30	74.00	25.70
4 882.000	37.37	Average	V	33.30	11.31	46.35	1.15	36.78	54.00	17.22
Test Data for High Channel										
4 960.000	50.22	Peak	H	33.30	11.41	46.35		48.58	74.00	25.42
4 960.000	36.79	Average	H	33.30	11.41	46.35	1.15	36.30	54.00	17.70
4 960.000	50.18	Peak	V	33.30	11.41	46.35		48.54	74.00	25.46
4 960.000	36.72	Average	V	33.30	11.41	46.35	1.15	36.23	54.00	17.77

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.3.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.83 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	49.88	Peak	H	33.40	11.18	46.33		48.13	74.00	25.87
4 804.000	37.03	Average	H	33.40	11.18	46.33	1.14	36.42	54.00	17.58
4 804.000	49.76	Peak	V	33.40	11.18	46.33		48.01	74.00	25.99
4 804.000	36.88	Average	V	33.40	11.18	46.33	1.14	36.27	54.00	17.73
Test Data for Middle Channel										
4 882.000	49.99	Peak	H	33.30	11.31	46.35		48.25	74.00	25.75
4 882.000	37.04	Average	H	33.30	11.31	46.35	1.14	36.44	54.00	17.56
4 882.000	50.20	Peak	V	33.30	11.31	46.35		48.46	74.00	25.54
4 882.000	37.00	Average	V	33.30	11.31	46.35	1.14	36.40	54.00	17.60
Test Data for High Channel										
4 960.000	49.97	Peak	H	33.30	11.41	46.35		48.33	74.00	25.67
4 960.000	36.72	Average	H	33.30	11.41	46.35	1.14	36.22	54.00	17.78
4 960.000	50.24	Peak	V	33.30	11.41	46.35		48.60	74.00	25.40
4 960.000	37.03	Average	V	33.30	11.41	46.35	1.14	36.53	54.00	17.47

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.3.3 Test data for 3 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 77.20 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	50.03	Peak	H	33.40	11.18	46.33		48.28	74.00	25.72
4 804.000	37.05	Average	H	33.40	11.18	46.33	1.12	36.42	54.00	17.58
4 804.000	49.62	Peak	V	33.40	11.18	46.33		47.87	74.00	26.13
4 804.000	36.85	Average	V	33.40	11.18	46.33	1.12	36.22	54.00	17.78
Test Data for Middle Channel										
4 882.000	50.09	Peak	H	33.30	11.31	46.35		48.35	74.00	25.65
4 882.000	37.23	Average	H	33.30	11.31	46.35	1.12	36.61	54.00	17.39
4 882.000	50.09	Peak	V	33.30	11.31	46.35		48.35	74.00	25.65
4 882.000	37.10	Average	V	33.30	11.31	46.35	1.12	36.48	54.00	17.52
Test Data for High Channel										
4 960.000	49.99	Peak	H	33.30	11.41	46.35		48.35	74.00	25.65
4 960.000	36.81	Average	H	33.30	11.41	46.35	1.12	36.29	54.00	17.71
4 960.000	50.11	Peak	V	33.30	11.41	46.35		48.47	74.00	25.53
4 960.000	36.93	Average	V	33.30	11.41	46.35	1.12	36.41	54.00	17.59

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.4 Spurious & Harmonic Radiated Emission above 1 GHz (Right Side)

12.6.4.1 Test data for 1 Mbps

- . Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- . Video bandwidth : 3 MHz for Peak and Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Duty Cycle : 77.17 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	50.15	Peak	H	33.40	11.18	46.33		48.40	74.00	25.60
4 804.000	37.22	Average	H	33.40	11.18	46.33	1.13	36.60	54.00	17.40
4 804.000	50.24	Peak	V	33.40	11.18	46.33		48.49	74.00	25.51
4 804.000	37.32	Average	V	33.40	11.18	46.33	1.13	36.70	54.00	17.30
Test Data for Middle Channel										
4 882.000	50.32	Peak	H	33.30	11.31	46.35		48.58	74.00	25.42
4 882.000	37.32	Average	H	33.30	11.31	46.35	1.13	36.71	54.00	17.29
4 882.000	50.12	Peak	V	33.30	11.31	46.35		48.38	74.00	25.62
4 882.000	37.23	Average	V	33.30	11.31	46.35	1.13	36.62	54.00	17.38
Test Data for High Channel										
4 960.000	50.31	Peak	H	33.30	11.41	46.35		48.67	74.00	25.33
4 960.000	36.99	Average	H	33.30	11.41	46.35	1.13	36.48	54.00	17.52
4 960.000	50.22	Peak	V	33.30	11.41	46.35		48.58	74.00	25.42
4 960.000	36.85	Average	V	33.30	11.41	46.35	1.13	36.34	54.00	17.66

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.4.2 Test data for 2 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 77.26 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	50.10	Peak	H	33.40	11.18	46.33		48.35	74.00	25.65
4 804.000	37.33	Average	H	33.40	11.18	46.33	1.12	36.70	54.00	17.30
4 804.000	49.85	Peak	V	33.40	11.18	46.33		48.10	74.00	25.90
4 804.000	36.83	Average	V	33.40	11.18	46.33	1.12	36.20	54.00	17.80
Test Data for Middle Channel										
4 882.000	50.05	Peak	H	33.30	11.31	46.35		48.31	74.00	25.69
4 882.000	37.04	Average	H	33.30	11.31	46.35	1.12	36.42	54.00	17.58
4 882.000	49.98	Peak	V	33.30	11.31	46.35		48.24	74.00	25.76
4 882.000	36.72	Average	V	33.30	11.31	46.35	1.12	36.10	54.00	17.90
Test Data for High Channel										
4 960.000	50.21	Peak	H	33.30	11.41	46.35		48.57	74.00	25.43
4 960.000	37.45	Average	H	33.30	11.41	46.35	1.12	36.93	54.00	17.07
4 960.000	50.24	Peak	V	33.30	11.41	46.35		48.60	74.00	25.40
4 960.000	37.36	Average	V	33.30	11.41	46.35	1.12	36.84	54.00	17.16

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dBμV/m)} - \text{Total Level (dBμV/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

12.6.4.3 Test data for 3 Mbps

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode for the emissions fall in restricted band,
1 MHz and RMS Detector for Average Mode for the emissions fall in restricted band
100 kHz for Peak Mode for the emissions outside restricted band
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m
- Duty Cycle : 76.90 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Factor	C.F (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.000	50.01	Peak	H	33.40	11.18	46.33		48.26	74.00	25.74
4 804.000	37.04	Average	H	33.40	11.18	46.33	1.14	36.43	54.00	17.57
4 804.000	49.88	Peak	V	33.40	11.18	46.33		48.13	74.00	25.87
4 804.000	36.91	Average	V	33.40	11.18	46.33	1.14	36.30	54.00	17.70
Test Data for Middle Channel										
4 882.000	50.11	Peak	H	33.30	11.31	46.35		48.37	74.00	25.63
4 882.000	37.03	Average	H	33.30	11.31	46.35	1.14	36.43	54.00	17.57
4 882.000	50.28	Peak	V	33.30	11.31	46.35		48.54	74.00	25.46
4 882.000	36.86	Average	V	33.30	11.31	46.35	1.14	36.26	54.00	17.74
Test Data for High Channel										
4 960.000	50.06	Peak	H	33.30	11.41	46.35		48.42	74.00	25.58
4 960.000	36.92	Average	H	33.30	11.41	46.35	1.14	36.42	54.00	17.58
4 960.000	50.28	Peak	V	33.30	11.41	46.35		48.64	74.00	25.36
4 960.000	37.16	Average	V	33.30	11.41	46.35	1.14	36.66	54.00	17.34

Remark: "H": Horizontal, "V": Vertical

$$\text{Margin (dB)} = \text{Limits (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$$

$$\text{Total Level} = \text{Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{AMP Factor} + \text{Correction Factor}$$

13. RADIATED EMISSION TEST

13.1 Operating environment

Temperature : 23 °C
Relative humidity : 45 % R.H.

13.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on a non-conductive turntable above the ground plane. The interconnecting cables from outside test site were inserted into ferrite clamps at the point where the cables reach the turntable.

The frequency spectrum from 30 MHz to 26.5 GHz was scanned and emission levels maximized at each frequency recorded. The system was rotated 360°, and the antenna was varied in height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for both horizontal and vertical polarization of the receiving antenna.

13.3 Test Date

January 07, 2021 ~ January 28, 2021

13.4 Test data for 30 MHz ~ 1 000 MHz

13.4.1 Test data for Left Side

Humidity Level : 45 % R.H.

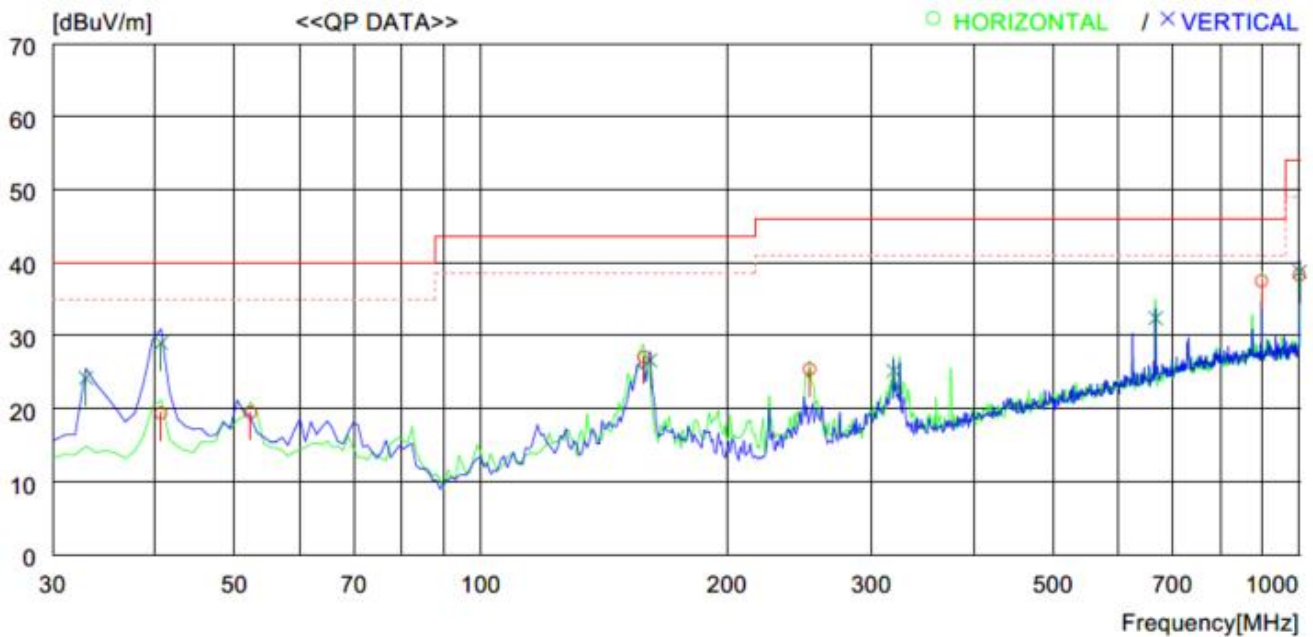
Temperature: 23 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Rear Seat Entertainment system

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	QP	FACTOR							
		[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	40.670	32.0	19.0	1.0	32.6	19.4	40.0	20.6	200	0
2	52.310	31.5	19.6	1.1	32.7	19.5	40.0	20.5	400	43
3	158.040	38.5	19.1	2.1	32.6	27.1	43.5	16.4	200	0
4	252.130	37.5	17.6	2.7	32.4	25.4	46.0	20.6	100	359
5	899.109	35.4	29.0	5.3	32.2	37.5	46.0	8.5	200	264
6	1000.000	34.7	29.8	5.5	31.7	38.3	54.0	15.7	100	359
---- Vertical ----										
7	32.910	38.0	17.9	0.9	32.6	24.2	40.0	15.8	100	272
8	40.670	41.6	19.0	1.0	32.6	29.0	40.0	11.0	100	0
9	160.950	38.0	19.1	2.1	32.6	26.6	43.5	16.9	100	189
10	319.060	34.6	19.9	3.1	32.4	25.2	46.0	20.8	100	82
11	667.286	33.9	26.4	4.5	32.4	32.4	46.0	13.6	100	130
12	1000.000	35.2	29.8	5.5	31.7	38.8	54.0	15.2	100	149

13.4.2 Test data for Right Side

Humidity Level : 45 % R.H.

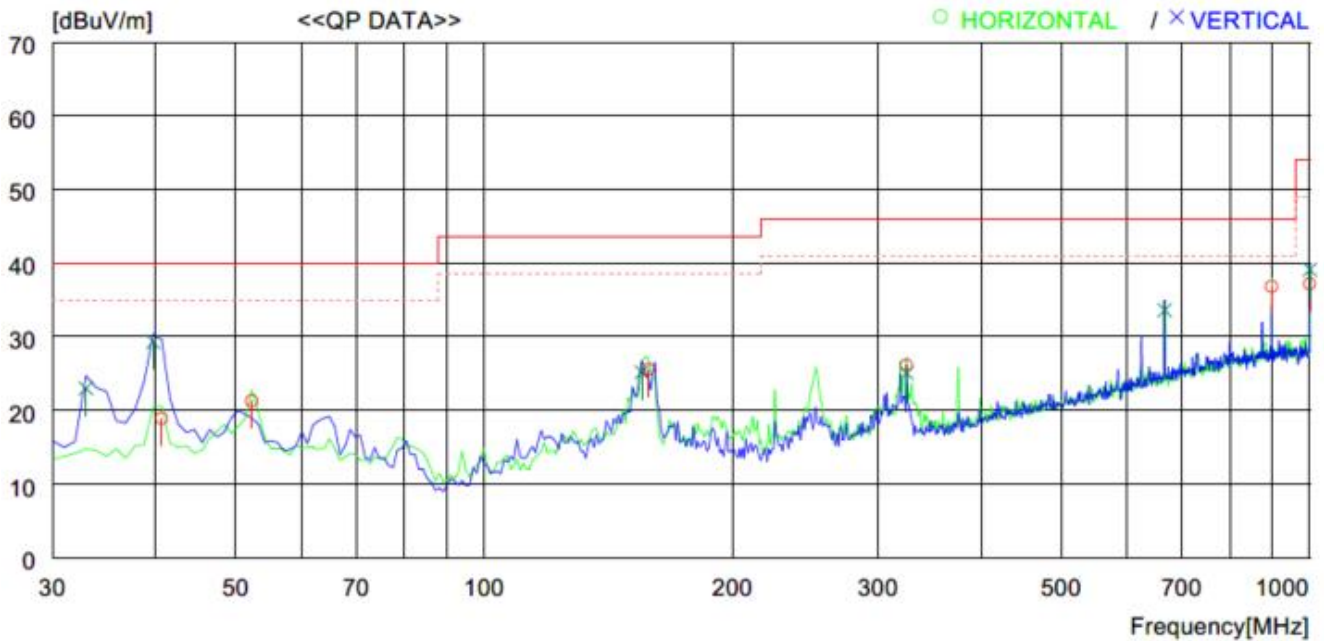
Temperature: 23 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Rear Seat Entertainment system

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	FACTOR	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	40.670	31.5	19.0	1.0	32.6	18.9	40.0	21.1	200	113
2	52.310	33.3	19.6	1.1	32.7	21.3	40.0	18.7	400	75
3	158.040	37.0	19.1	2.1	32.6	25.6	43.5	17.9	200	113
4	324.880	35.4	20.0	3.1	32.4	26.1	46.0	19.9	100	0
5	899.109	34.7	29.0	5.3	32.2	36.8	46.0	9.2	200	359
6	1000.000	33.6	29.8	5.5	31.7	37.2	54.0	16.8	100	0
----- Vertical -----										
7	32.910	36.8	17.9	0.9	32.6	23.0	40.0	17.0	100	359
8	39.700	42.0	18.9	1.0	32.6	29.3	40.0	10.7	100	168
9	155.130	36.7	19.0	2.1	32.6	25.2	43.5	18.3	100	149
10	324.880	34.4	20.0	3.1	32.4	25.1	46.0	20.9	100	37
11	667.286	35.1	26.4	4.5	32.4	33.6	46.0	12.4	100	359
12	1000.000	35.5	29.8	5.5	31.7	39.1	54.0	14.9	100	359

13.4.3 Test data for Intermodulation Mode(Left & Right Side Bluetooth)

Humidity Level : 45 % R.H.

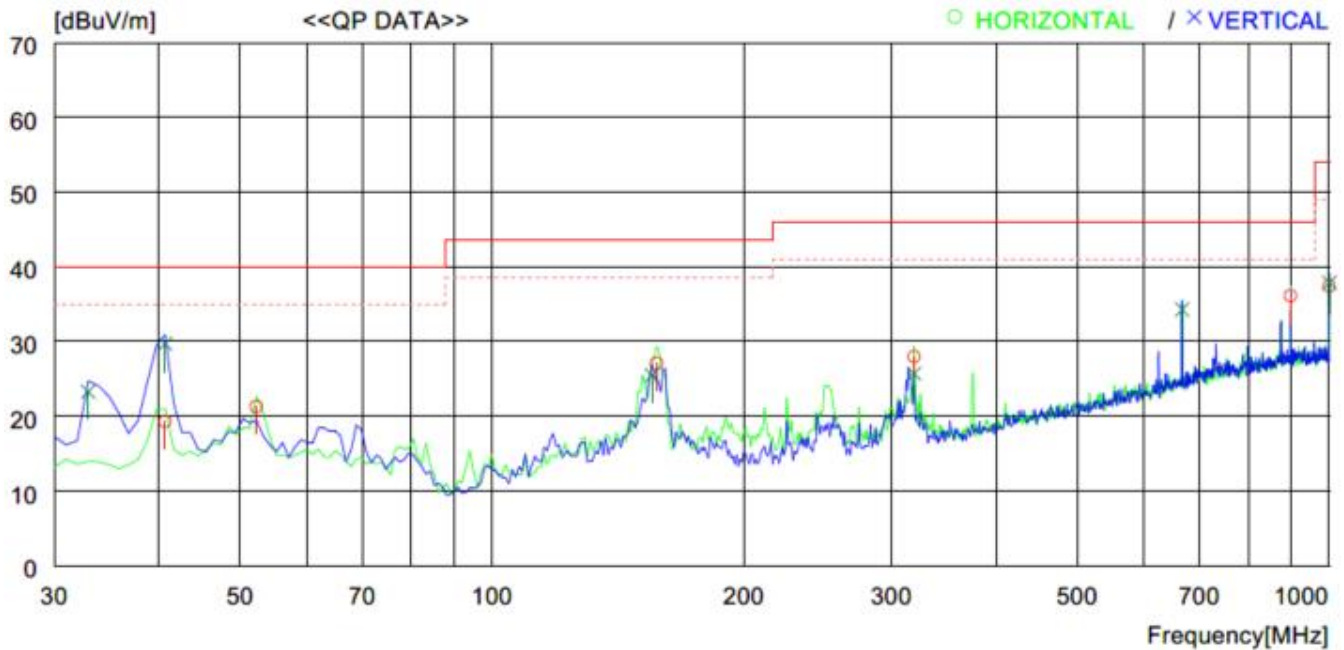
Temperature: 23 °C

Limits apply to : FCC CFR 47, PART 15, SUBPART C, SECTION 15.247

Result : PASSED

EUT : Rear Seat Entertainment system

Detector : CISPR Quasi-Peak (6 dB Bandwidth: 120 kHz)



No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
---- Horizontal ----										
1	40.670	31.9	19.0	1.0	32.6	19.3	40.0	20.7	300	109
2	52.310	33.3	19.6	1.1	32.7	21.3	40.0	18.7	300	231
3	157.070	38.6	19.0	2.1	32.6	27.1	43.5	16.4	200	359
4	319.060	37.4	19.9	3.1	32.4	28.0	46.0	18.0	100	0
5	899.109	34.0	29.0	5.3	32.2	36.1	46.0	9.9	100	0
6	1000.000	33.8	29.8	5.5	31.7	37.4	54.0	16.6	100	0
---- Vertical ----										
7	32.910	37.1	17.9	0.9	32.6	23.3	40.0	16.7	100	359
8	40.670	42.3	19.0	1.0	32.6	29.7	40.0	10.3	100	359
9	155.130	37.0	19.0	2.1	32.6	25.5	43.5	18.0	100	359
10	319.060	35.1	19.9	3.1	32.4	25.7	46.0	20.3	100	86
11	667.286	35.8	26.4	4.5	32.4	34.3	46.0	11.7	100	171
12	1000.000	34.3	29.8	5.5	31.7	37.9	54.0	16.1	100	359

13.5 Test data for Below 30 MHz

13.5.1 Test data for Left Side

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.5.2 Test data for Right Side

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.5.3 Test data for Intermodulation Mode(Left & Right Side Bluetooth)

- . Resolution bandwidth : 200 Hz (from 9 kHz to 0.15 MHz), 9 kHz (from 0.15 MHz to 30 MHz)
- . Frequency range : 9 kHz ~ 30 MHz
- . Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.6 Test data for above 1 GHz

13.6.1 Test data for Left Side

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.6.2 Test data for Right Side

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

13.6.2 Test data for Intermodulation Mode(Left & Right Side Bluetooth)

- Resolution bandwidth : 1 MHz and Peak Detector for Peak Mode
1 MHz and RMS Detector for Average Mode
- Video bandwidth : 3 MHz for Peak and Average Mode
- Frequency range : 1 GHz ~ 26.5 GHz
- Measurement distance : 3 m

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
Emission from the EUT more than 20 dB below the limit in each frequency range.								

14. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	102177	Apr. 20, 2020 (1Y)
FSW43	Rohde & Schwarz	Signal Analyzer	104544	Jul. 15, 2020 (1Y)
ESW	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 27, 2020 (1Y)
CMW500	Rohde & Schwarz	WIDEBAND RADIO COMMUNICATION TESTER	145762	Feb. 09, 2021 (1Y)
TC-3000C	TESCOM	BLUETOOTH TESTER	3000C000634	Feb. 09, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 16, 2020 (1Y)
PAM-118A	Com-Power	Pre-Amplifier	18040081	Oct. 12, 2020 (1Y)
PAM-840A	Com-Power	Pre-Amplifier	461339	Oct. 16, 2020 (1Y)
DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
FMZB 1513	Schwarzbeck	Loop Antenna	1513-235	Mar. 24, 2020 (2Y)
HLP-2008	TDK	Hybrid Antenna	131316	Feb. 27, 2020 (2Y)
AH-118	Com-Power	Horn Antenna	10050061	Oct. 15, 2020 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 07, 2021(1Y)