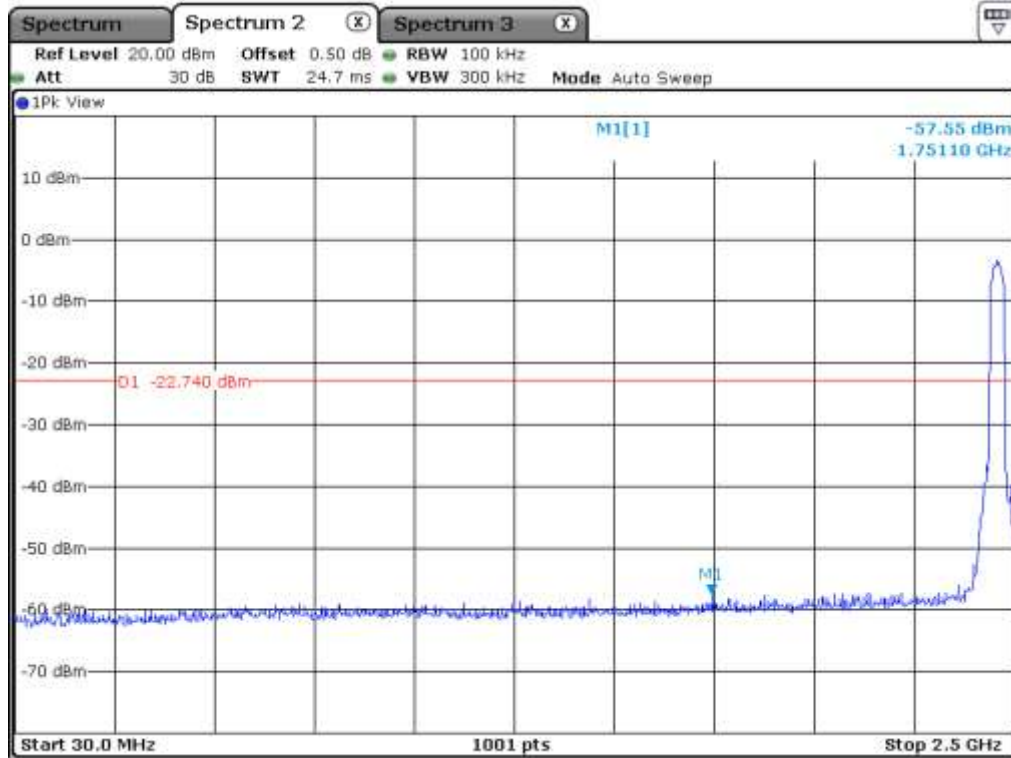
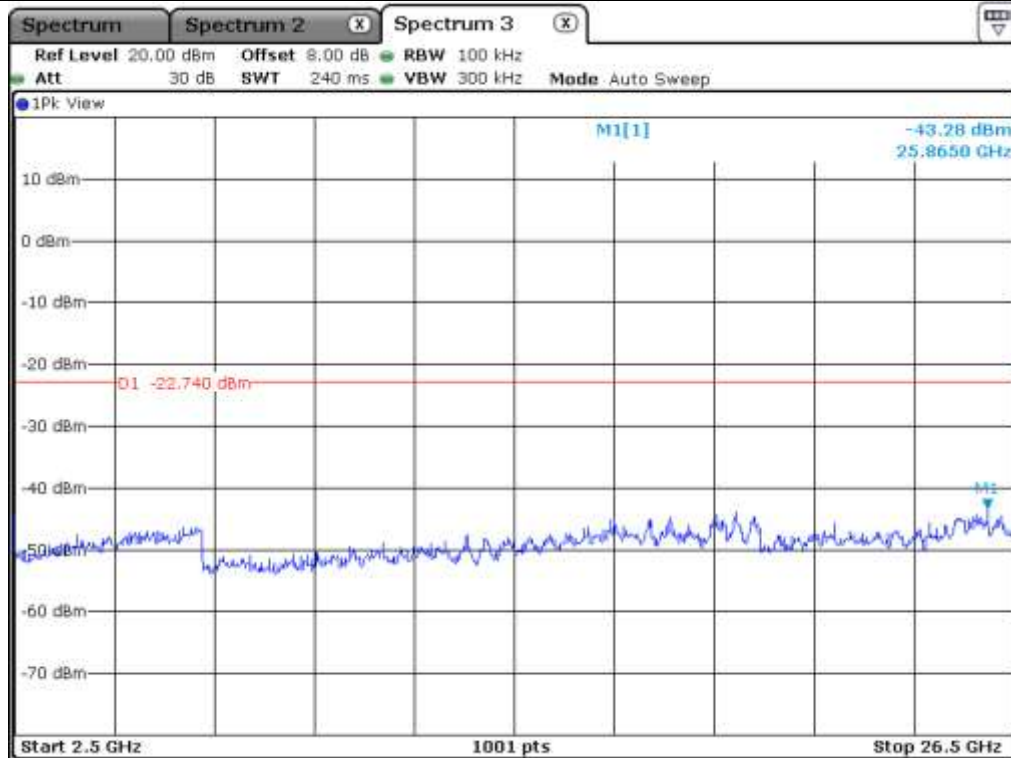
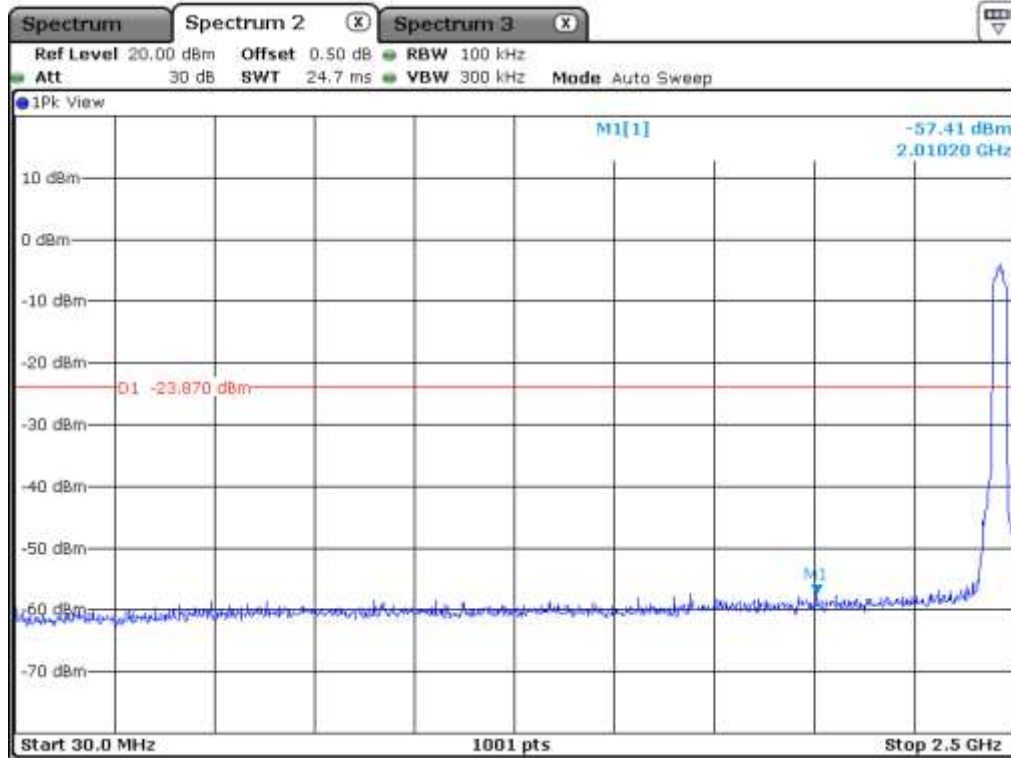




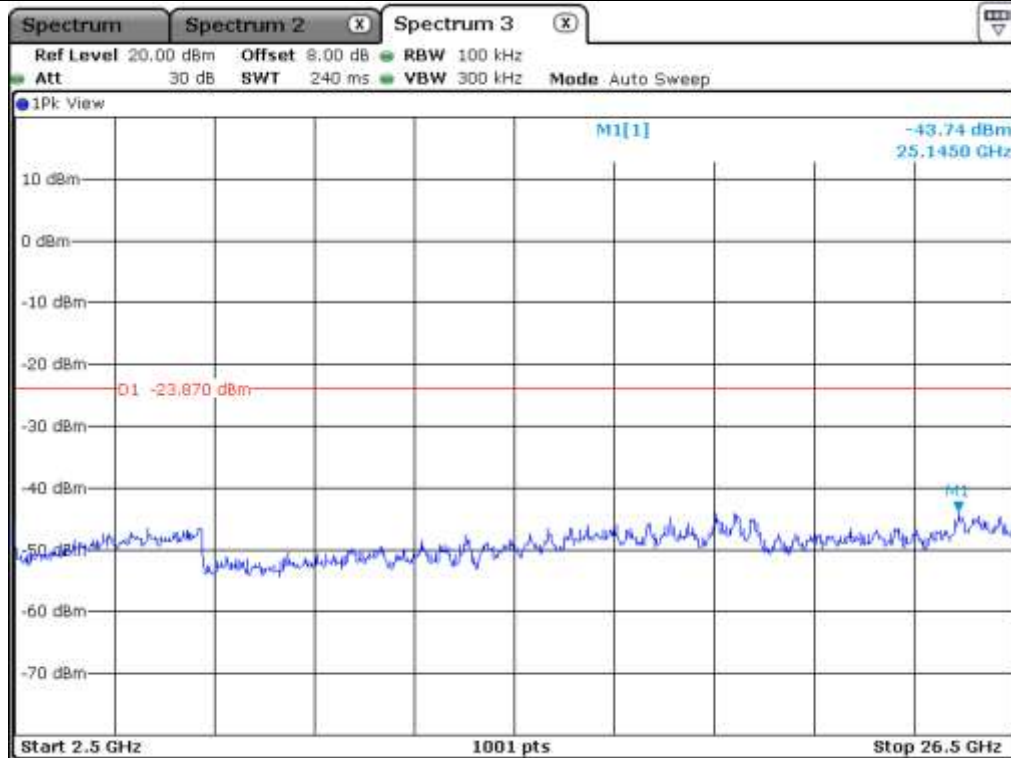
High Channel 10



High Channel 10



High Channel 11



High Channel 11

9.6 Test data for radiated emission

9.6.1 Radiated Emission which fall in the Restricted Band

9.6.1.1 Test data for 802.11b WLAN Mode

9.6.1.1.1 Test data for Antenna 0

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
2 339.37	28.31	Peak	H	27.90	2.91	59.12	74.00	14.88
2 387.24	11.37	Average	H	27.90	2.91	42.18	54.00	11.82
2 385.80	17.87	Peak	V	27.90	2.91	48.68	74.00	25.32
2 372.22	7.93	Average	V	27.90	2.91	38.74	54.00	15.26
Test Data for High 11 Channel								
2 485.88	27.57	Peak	H	27.50	2.91	57.98	74.00	16.02
2 486.87	14.96	Average	H	27.50	2.91	45.37	54.00	8.63
2 486.44	20.03	Peak	V	27.50	2.91	50.44	74.00	23.56
2 486.57	12.48	Average	V	27.50	2.91	42.89	54.00	11.11

Test Data for High 12 Channel								
2 484.33	30.60	Peak	H	27.50	2.91	61.01	74.00	12.99
2 484.22	22.14	Average	H	27.50	2.91	52.55	54.00	1.45
2 483.57	26.98	Peak	V	27.50	2.91	57.39	74.00	16.61
2 483.51	20.94	Average	V	27.50	2.91	51.35	54.00	2.65
Test Data for High 13 Channel								
2 484.53	30.55	Peak	H	27.50	2.91	60.96	74.00	13.04
2 484.17	20.98	Average	H	27.50	2.91	51.39	54.00	2.61
2 484.61	23.59	Peak	V	27.50	2.91	54.00	74.00	20.00
2 487.20	18.37	Average	V	27.50	2.91	48.78	54.00	5.22

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.1.1.2 Test data for Antenna 1

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
2 385.77	21.10	Peak	H	27.90	2.91	51.91	74.00	22.09
2 386.28	14.28	Average	H	27.90	2.91	45.09	54.00	8.91
2 385.56	19.61	Peak	V	27.90	2.91	50.42	74.00	23.58
2 386.20	12.69	Average	V	27.90	2.91	43.50	54.00	10.50
Test Data for High 11 Channel								
2 488.14	23.96	Peak	H	27.50	2.91	54.37	74.00	19.63
2 487.66	17.22	Average	H	27.50	2.91	47.63	54.00	6.37
2 487.61	19.06	Peak	V	27.50	2.91	49.47	74.00	24.53
2 487.76	12.56	Average	V	27.50	2.91	42.97	54.00	11.03

Test Data for High 12 Channel								
2 483.51	26.02	Peak	H	27.50	2.91	56.43	74.00	17.57
2 484.58	22.04	Average	H	27.50	2.91	52.45	54.00	1.55
2 483.51	25.22	Peak	V	27.50	2.91	55.63	74.00	18.37
2 483.51	18.32	Average	V	27.50	2.91	48.73	54.00	5.27
Test Data for High 13 Channel								
2 484.59	26.45	Peak	H	27.50	2.91	56.86	74.00	17.14
2 486.90	22.17	Average	H	27.50	2.91	52.58	54.00	1.42
2 484.60	22.40	Peak	V	27.50	2.91	52.81	74.00	21.19
2 484.79	16.39	Average	V	27.50	2.91	46.80	54.00	7.20

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.1.2 Test data for 802.11g WLAN Mode

9.6.1.2.1 Test data for Multiple Transmit

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
2 389.96	30.54	Peak	H	27.90	2.91	61.35	74.00	12.65
2 389.32	15.13	Average	H	27.90	2.91	45.94	54.00	8.06
2 388.76	30.68	Peak	V	27.90	2.91	61.49	74.00	12.51
2 390.96	19.64	Average	V	27.90	2.91	50.45	54.00	3.55
Test Data for High 11 Channel								
2 483.51	36.56	Peak	H	27.50	2.91	66.97	74.00	7.03
2 483.79	22.12	Average	H	27.50	2.91	52.53	54.00	1.47
2 483.51	34.33	Peak	V	27.50	2.91	64.74	74.00	9.26
2 483.51	20.79	Average	V	27.50	2.91	51.20	54.00	2.80

Test Data for High 12 Channel								
2 484.43	39.42	Peak	H	27.50	2.91	69.83	74.00	4.17
2 484.38	21.25	Average	H	27.50	2.91	51.66	54.00	2.34
2 483.51	37.52	Peak	V	27.50	2.91	67.93	74.00	6.07
2 483.51	21.18	Average	V	27.50	2.91	51.59	54.00	2.41
Test Data for High 13 Channel								
2 487.66	39.89	Peak	H	27.50	2.91	70.30	74.00	3.70
2 484.00	22.24	Average	H	27.50	2.91	52.65	54.00	1.35
2 486.56	37.47	Peak	V	27.50	2.91	67.88	74.00	6.12
2 483.51	21.92	Average	V	27.50	2.91	52.33	54.00	1.67

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.1.3 Test data for 802.11n_HT20 WLAN Mode

9.6.1.3.1 Test data for Multiple Transmit

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
2 389.96	31.43	Peak	H	27.90	2.91	62.24	74.00	11.76
2 389.96	16.85	Average	H	27.90	2.91	47.66	54.00	6.34
2 389.96	28.34	Peak	V	27.90	2.91	59.15	74.00	14.85
2 389.96	18.64	Average	V	27.90	2.91	49.45	54.00	4.55
Test Data for High 11 Channel								
2 483.51	35.02	Peak	H	27.50	2.91	65.43	74.00	8.57
2 483.51	20.32	Average	H	27.50	2.91	50.73	54.00	3.27
2 485.34	32.74	Peak	V	27.50	2.91	63.15	74.00	10.85
2 483.51	17.77	Average	V	27.50	2.91	48.18	54.00	5.82

Test Data for High 12 Channel								
2 483.51	39.79	Peak	H	27.50	2.91	70.20	74.00	3.80
2 483.51	22.09	Average	H	27.50	2.91	52.50	54.00	1.50
2 483.66	38.30	Peak	V	27.50	2.91	68.71	74.00	5.29
2 483.51	21.76	Average	V	27.50	2.91	52.17	54.00	1.83
Test Data for High 13 Channel								
2 483.51	35.39	Peak	H	27.50	2.91	65.80	74.00	8.20
2 483.51	22.00	Average	H	27.50	2.91	52.41	54.00	1.59
2 483.54	37.93	Peak	V	27.50	2.91	68.34	74.00	5.66
2 483.51	22.04	Average	V	27.50	2.91	52.45	54.00	1.55

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.1.4 Test data for 802.11n_HT40 WLAN Mode

9.6.1.4.1 Test data for Multiple Transmit

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
2 386.92	33.36	Peak	H	27.90	2.91	64.17	74.00	9.83
2 388.92	21.39	Average	H	27.90	2.91	52.20	54.00	1.80
2 387.80	32.22	Peak	V	27.90	2.91	63.03	74.00	10.97
2 388.44	21.48	Average	V	27.90	2.91	52.29	54.00	1.71
Test Data for High 9 Channel								
2 483.89	34.49	Peak	H	27.50	2.91	64.90	74.00	9.10
2 483.51	21.52	Average	H	27.50	2.91	51.93	54.00	2.07
2 486.23	35.66	Peak	V	27.50	2.91	66.07	74.00	7.93
2 484.71	21.40	Average	V	27.50	2.91	51.81	54.00	2.19

Test Data for High 10 Channel								
2 483.51	32.46	Peak	H	27.50	2.91	62.87	74.00	11.13
2 483.54	21.08	Average	H	27.50	2.91	51.49	54.00	2.51
2 485.31	36.83	Peak	V	27.50	2.91	67.24	74.00	6.76
2 485.16	22.37	Average	V	27.50	2.91	52.78	54.00	1.22
Test Data for High 11 Channel								
2 483.51	34.08	Peak	H	27.50	2.91	64.49	74.00	9.51
2 483.51	21.78	Average	H	27.50	2.91	52.19	54.00	1.81
2 487.04	34.30	Peak	V	27.50	2.91	64.71	74.00	9.29
2 483.51	20.17	Average	V	27.50	2.91	50.58	54.00	3.42

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.2 Spurious & Harmonic Radiated Emission

9.6.2.1 Test data for 802.11b WLAN Mode

9.6.2.1.1 Test data for Antenna 0

- Test Date : December 03, 2019 ~ December 05, 2019
- 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 : > 98 %
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
4 824.00	16.61	Peak	H	30.84	7.28	54.73	74.00	19.27
4 824.00	7.88	Average	H	30.84	7.28	46.00	54.00	8.00
4 824.00	16.63	Peak	V	30.84	7.28	54.75	74.00	19.25
4 824.00	7.59	Average	V	30.84	7.28	45.71	54.00	8.29
Test Data for Middle Channel								
4 874.00	16.39	Peak	H	30.01	7.42	53.82	74.00	20.18
4 874.00	8.47	Average	H	30.01	7.42	45.90	54.00	8.10
4 874.00	16.69	Peak	V	30.01	7.42	54.12	74.00	19.88
4 874.00	7.59	Average	V	30.01	7.42	45.02	54.00	8.98

Test Data for High 11 Channel								
4 924.00	16.45	Peak	H	30.01	7.42	53.88	74.00	20.12
4 924.00	7.36	Average	H	30.01	7.42	44.79	54.00	9.21
4 924.00	16.39	Peak	V	30.01	7.42	53.82	74.00	20.18
4 924.00	7.31	Average	V	30.01	7.42	44.74	54.00	9.26
Test Data for High 12 Channel								
4 934.00	17.23	Peak	H	30.01	7.42	54.66	74.00	19.34
4 934.00	7.28	Average	H	30.01	7.42	44.71	54.00	9.29
4 934.00	16.98	Peak	V	30.01	7.42	54.41	74.00	19.59
4 934.00	7.07	Average	V	30.01	7.42	44.50	54.00	9.50
Test Data for High 13 Channel								
4 944.00	16.10	Peak	H	31.15	7.40	54.65	74.00	19.35
4 944.00	7.01	Average	H	31.15	7.40	45.56	54.00	8.44
4 944.00	17.24	Peak	V	31.15	7.40	55.79	74.00	18.21
4 944.00	6.88	Average	V	31.15	7.40	45.43	54.00	8.57

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.2.1.2 Test data for Antenna 1

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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 : > 98 %
- . Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
4 824.00	16.23	Peak	H	30.84	7.28	54.35	74.00	19.65
4 824.00	6.68	Average	H	30.84	7.28	44.80	54.00	9.20
4 824.00	16.84	Peak	V	30.84	7.28	54.96	74.00	19.04
4 824.00	6.95	Average	V	30.84	7.28	45.07	54.00	8.93
Test Data for Middle Channel								
4 874.00	16.74	Peak	H	30.01	7.42	54.17	74.00	19.83
4 874.00	6.81	Average	H	30.01	7.42	44.24	54.00	9.76
4 874.00	16.97	Peak	V	30.01	7.42	54.40	74.00	19.60
4 874.00	6.97	Average	V	30.01	7.42	44.40	54.00	9.60

Test Data for High 11 Channel								
4 924.00	16.63	Peak	H	30.01	7.42	54.06	74.00	19.94
4 924.00	7.16	Average	H	30.01	7.42	44.59	54.00	9.41
4 924.00	16.78	Peak	V	30.01	7.42	54.21	74.00	19.79
4 924.00	6.98	Average	V	30.01	7.42	44.41	54.00	9.59
Test Data for High 12 Channel								
4 934.00	16.55	Peak	H	30.01	7.42	53.98	74.00	20.02
4 934.00	7.05	Average	H	30.01	7.42	44.48	54.00	9.52
4 934.00	16.90	Peak	V	30.01	7.42	54.33	74.00	19.67
4 934.00	7.56	Average	V	30.01	7.42	44.99	54.00	9.01
Test Data for High 13 Channel								
4 944.00	16.25	Peak	H	31.15	7.40	54.80	74.00	19.20
4 944.00	6.57	Average	H	31.15	7.40	45.12	54.00	8.88
4 944.00	17.08	Peak	V	31.15	7.40	55.63	74.00	18.37
4 944.00	7.62	Average	V	31.15	7.40	46.17	54.00	7.83

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.2.2 Test data for 802.11g WLAN Mode

9.6.2.2.1 Test data for Multiple Transmit

- Test Date : December 03, 2019 ~ December 05, 2019
- 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 : > 98 %
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
4 824.00	16.39	Peak	H	30.84	7.28	54.51	74.00	19.49
4 824.00	6.61	Average	H	30.84	7.28	44.73	54.00	9.27
4 824.00	16.57	Peak	V	30.84	7.28	54.69	74.00	19.31
4 824.00	6.63	Average	V	30.84	7.28	44.75	54.00	9.25
Test Data for Middle Channel								
4 874.00	16.67	Peak	H	30.01	7.42	54.10	74.00	19.90
4 874.00	6.65	Average	H	30.01	7.42	44.08	54.00	9.92
4 874.00	17.36	Peak	V	30.01	7.42	54.79	74.00	19.21
4 874.00	6.81	Average	V	30.01	7.42	44.24	54.00	9.76

Test Data for High 11 Channel								
4 924.00	16.23	Peak	H	30.01	7.42	53.66	74.00	20.34
4 924.00	6.65	Average	H	30.01	7.42	44.08	54.00	9.92
4 924.00	17.55	Peak	V	30.01	7.42	54.98	74.00	19.02
4 924.00	7.09	Average	V	30.01	7.42	44.52	54.00	9.48
Test Data for High 12 Channel								
4 934.00	16.15	Peak	H	30.01	7.42	53.58	74.00	20.42
4 934.00	7.11	Average	H	30.01	7.42	44.54	54.00	9.46
4 934.00	16.67	Peak	V	30.01	7.42	54.10	74.00	19.90
4 934.00	6.96	Average	V	30.01	7.42	44.39	54.00	9.61
Test Data for High 13 Channel								
4 944.00	15.99	Peak	H	31.15	7.40	54.54	74.00	19.46
4 944.00	7.27	Average	H	31.15	7.40	45.82	54.00	8.18
4 944.00	16.43	Peak	V	31.15	7.40	54.98	74.00	19.02
4 944.00	7.05	Average	V	31.15	7.40	45.60	54.00	8.40

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.2.3 Test data for 802.11n_HT20 WLAN Mode

9.6.2.3.1 Test data for Multiple Transmit

- Test Date : December 03, 2019 ~ December 05, 2019
- 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 : > 98 %
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
4 824.00	16.54	Peak	H	30.84	7.28	54.66	74.00	19.34
4 824.00	6.68	Average	H	30.84	7.28	44.80	54.00	9.20
4 824.00	16.43	Peak	V	30.84	7.28	54.55	74.00	19.45
4 824.00	6.96	Average	V	30.84	7.28	45.08	54.00	8.92
Test Data for Middle Channel								
4 874.00	16.42	Peak	H	30.01	7.42	53.85	74.00	20.15
4 874.00	6.88	Average	H	30.01	7.42	44.31	54.00	9.69
4 874.00	16.34	Peak	V	30.01	7.42	53.77	74.00	20.23
4 874.00	6.94	Average	V	30.01	7.42	44.37	54.00	9.63

Test Data for High 11 Channel								
4 924.00	16.36	Peak	H	30.01	7.42	53.79	74.00	20.21
4 924.00	6.65	Average	H	30.01	7.42	44.08	54.00	9.92
4 924.00	17.41	Peak	V	30.01	7.42	54.84	74.00	19.16
4 924.00	7.23	Average	V	30.01	7.42	44.66	54.00	9.34
Test Data for High 12 Channel								
4 934.00	16.96	Peak	H	30.01	7.42	54.39	74.00	19.61
4 934.00	6.97	Average	H	30.01	7.42	44.40	54.00	9.60
4 934.00	16.40	Peak	V	30.01	7.42	53.83	74.00	20.17
4 934.00	7.08	Average	V	30.01	7.42	44.51	54.00	9.49
Test Data for High 13 Channel								
4 944.00	16.90	Peak	H	31.15	7.40	55.45	74.00	18.55
4 944.00	7.06	Average	H	31.15	7.40	45.61	54.00	8.39
4 944.00	17.12	Peak	V	31.15	7.40	55.67	74.00	18.33
4 944.00	6.94	Average	V	31.15	7.40	45.49	54.00	8.51

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



Tested by: Ha-Ram, Lee / Assistant Manager

9.6.2.4 Test data for 802.11n_HT40 WLAN Mode

9.6.2.4.1 Test data for Multiple Transmit

- Test Date : December 03, 2019 ~ December 05, 2019
- 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 : > 98 %
- Result : PASSED

Frequency (GHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel								
4 844.00	16.11	Peak	H	30.84	7.28	54.23	74.00	19.77
4 844.00	6.64	Average	H	30.84	7.28	44.76	54.00	9.24
4 844.00	16.47	Peak	V	30.84	7.28	54.59	74.00	19.41
4 844.00	6.60	Average	V	30.84	7.28	44.72	54.00	9.28
Test Data for Middle Channel								
4 874.00	16.27	Peak	H	30.01	7.42	53.70	74.00	20.30
4 874.00	7.02	Average	H	30.01	7.42	44.45	54.00	9.55
4 874.00	16.65	Peak	V	30.01	7.42	54.08	74.00	19.92
4 874.00	6.62	Average	V	30.01	7.42	44.05	54.00	9.95

Test Data for High 11 Channel								
4 904.00	16.74	Peak	H	30.01	7.42	54.17	74.00	19.83
4 904.00	7.34	Average	H	30.01	7.42	44.77	54.00	9.23
4 904.00	17.93	Peak	V	30.01	7.42	55.36	74.00	18.64
4 904.00	7.59	Average	V	30.01	7.42	45.02	54.00	8.98
Test Data for High 12 Channel								
4 914.00	16.69	Peak	H	30.01	7.42	54.12	74.00	19.88
4 914.00	6.82	Average	H	30.01	7.42	44.25	54.00	9.75
4 914.00	16.29	Peak	V	30.01	7.42	53.72	74.00	20.28
4 914.00	7.08	Average	V	30.01	7.42	44.51	54.00	9.49
Test Data for High 13 Channel								
4 924.00	16.70	Peak	H	31.15	7.40	55.25	74.00	18.75
4 924.00	6.93	Average	H	31.15	7.40	45.48	54.00	8.52
4 924.00	17.26	Peak	V	31.15	7.40	55.81	74.00	18.19
4 924.00	6.74	Average	V	31.15	7.40	45.29	54.00	8.71

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



Tested by: Ha-Ram, Lee / Assistant Manager

10. PEAK POWER SPECTRAL DENSITY

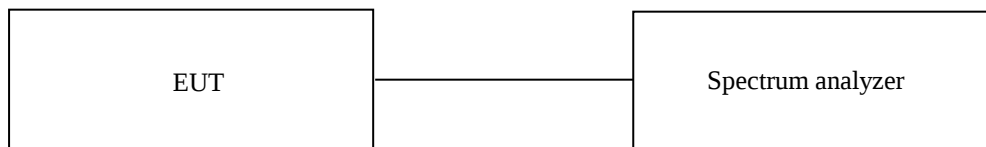
10.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 % R.H.

10.2 Test set-up

The antenna output of the EUT was connected to the spectrum analyzer.

The resolution bandwidth is set to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$, the video bandwidth is set to 3 times the resolution bandwidth.



10.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ -	FSV30	Rohde & Schwarz	Signal Analyzer	101199	Mar. 11, 2019 (1Y)

All test equipment used is calibrated on a regular basis.

10.4 Test data for 802.11b WLAN Mode

10.4.1 Test data for Antenna 0

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

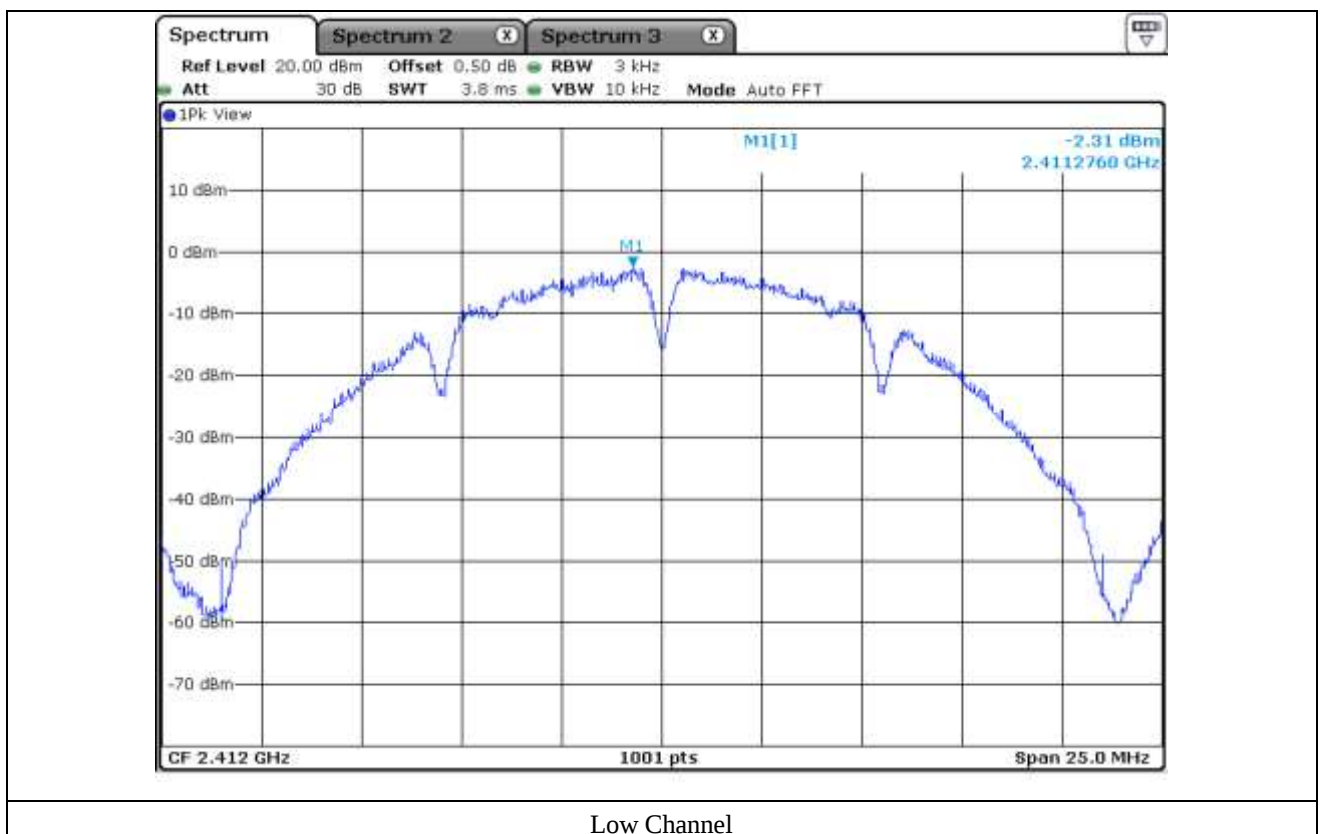
-. Operating Condition : Continuous transmitting mode

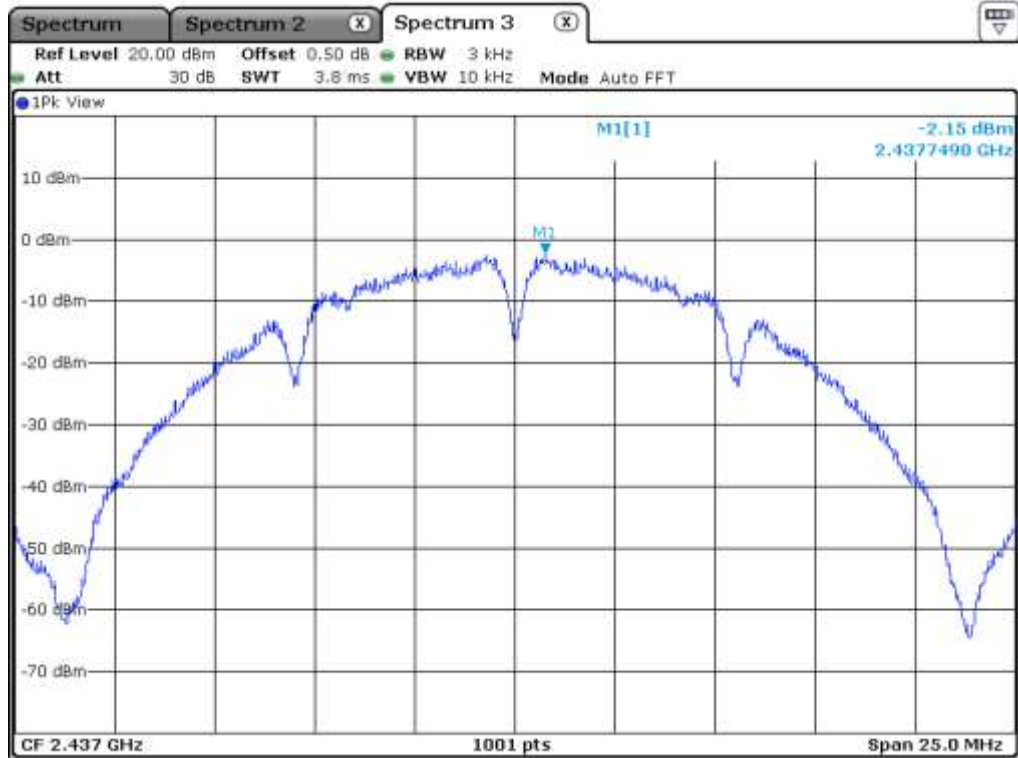
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-2.31	8.00	10.31
Middle	2 437.00	-2.15	8.00	9.97
High 11	2 462.00	-2.43	8.00	10.43
High 12	2 467.00	-4.30	8.00	12.30
High 13	2 472.00	-8.42	8.00	16.42

Remark. Margin = Limit – Measured value

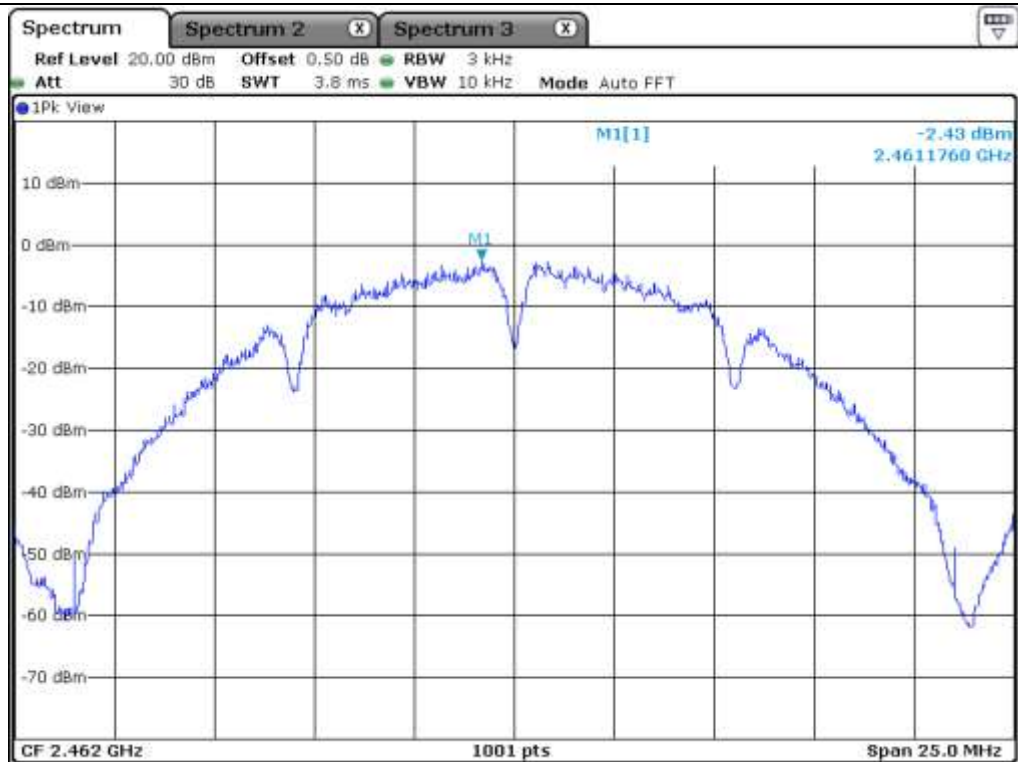


Tested by: Ha-Ram, Lee / Assistant Manager





Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.4.2 Test data for Antenna 1

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

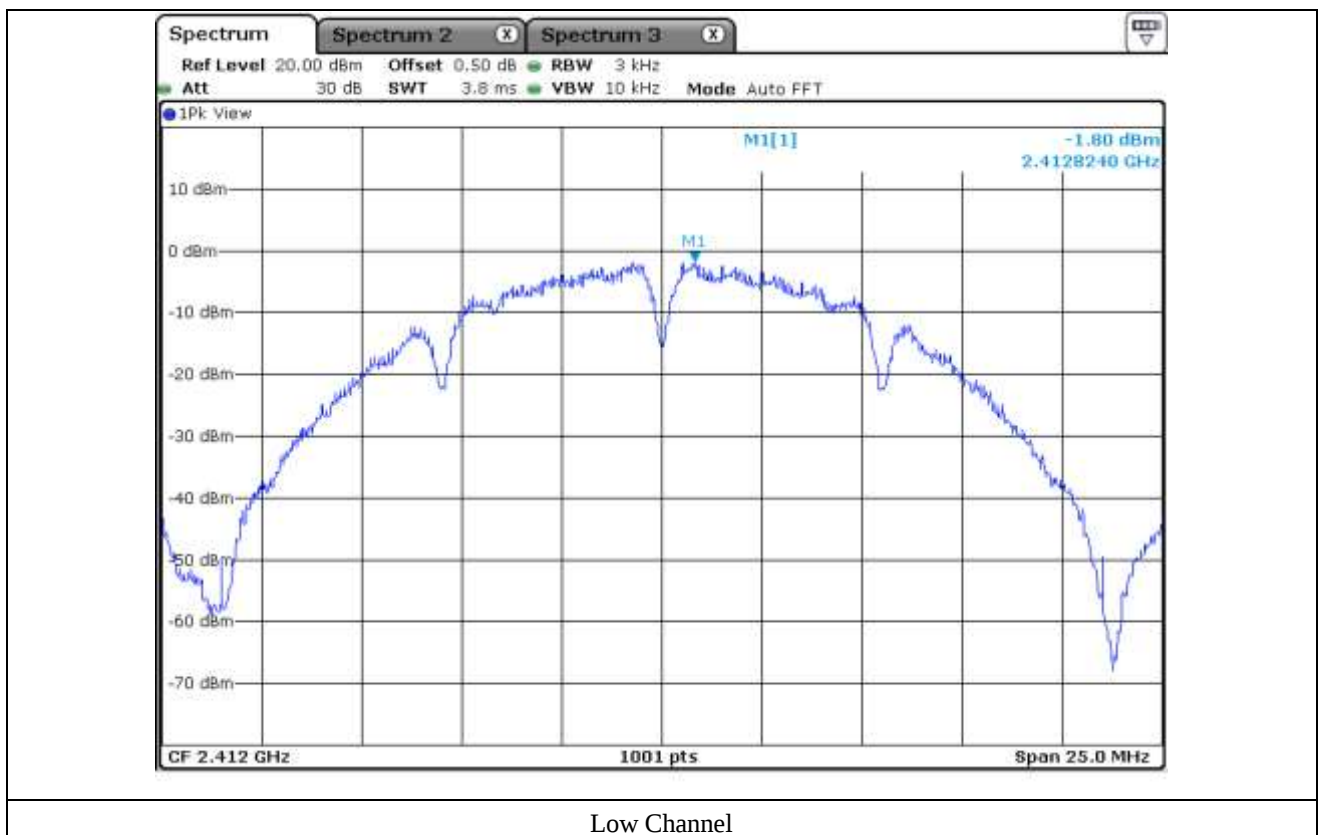
-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-1.80	8.00	9.80
Middle	2 437.00	-1.80	8.00	9.25
High 11	2 462.00	-1.53	8.00	9.53
High 12	2 467.00	-3.61	8.00	11.61
High 13	2 472.00	-6.62	8.00	14.62

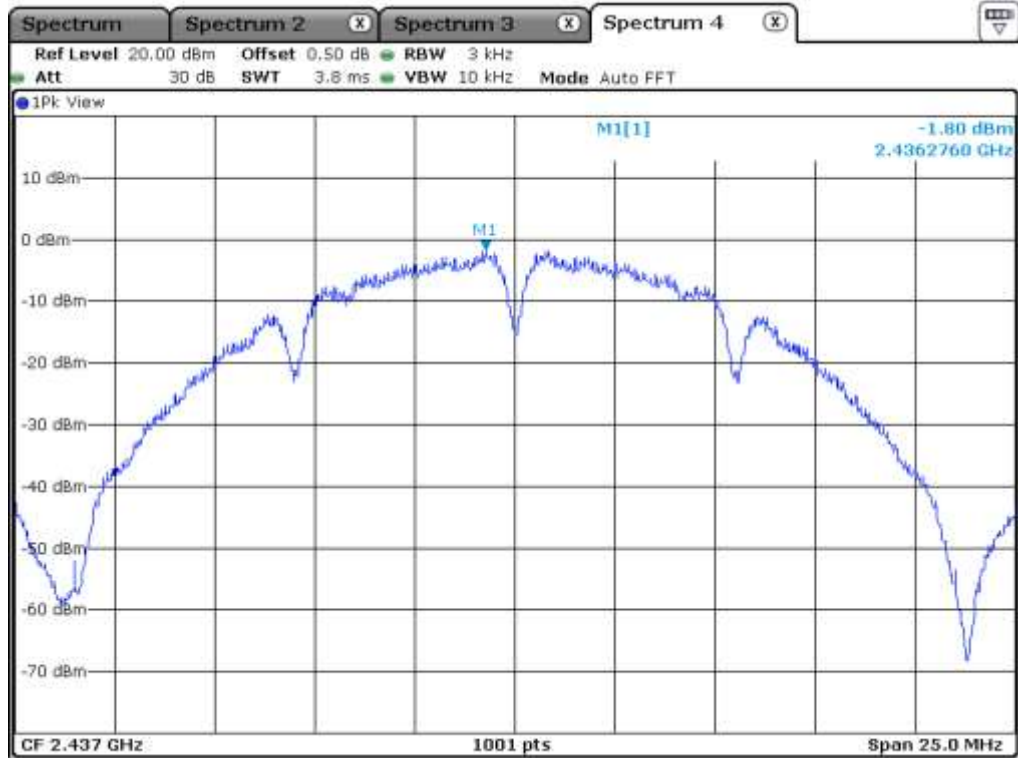
Remark. Margin = Limit – Measured value



Tested by: Ha-Ram, Lee / Assistant Manager



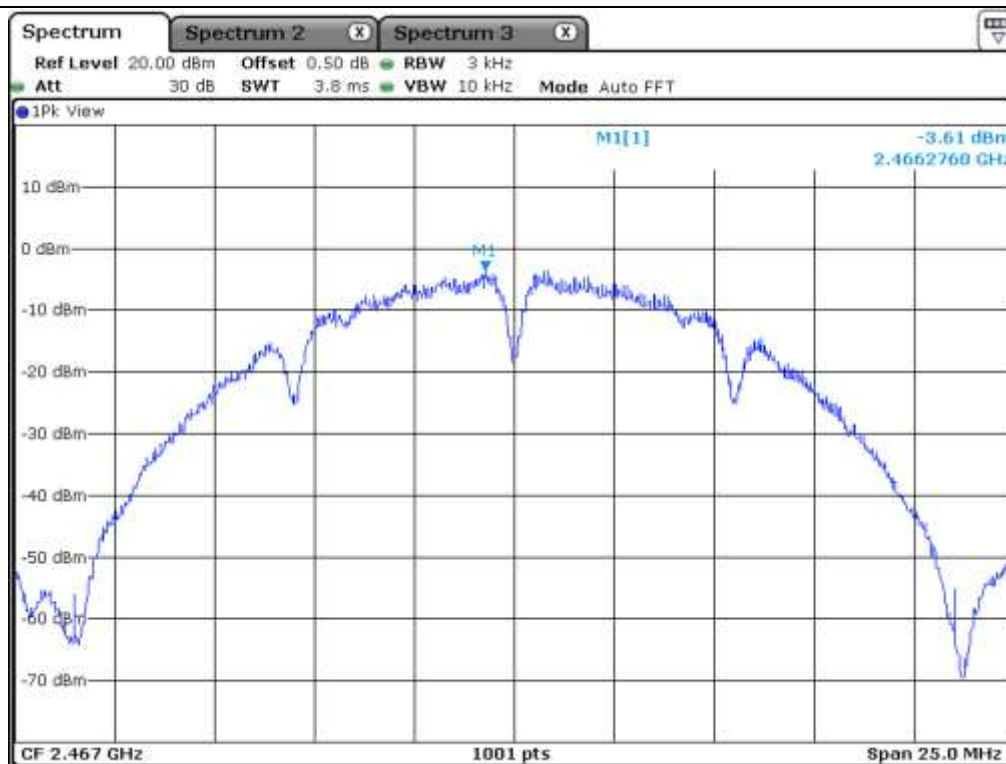
Low Channel



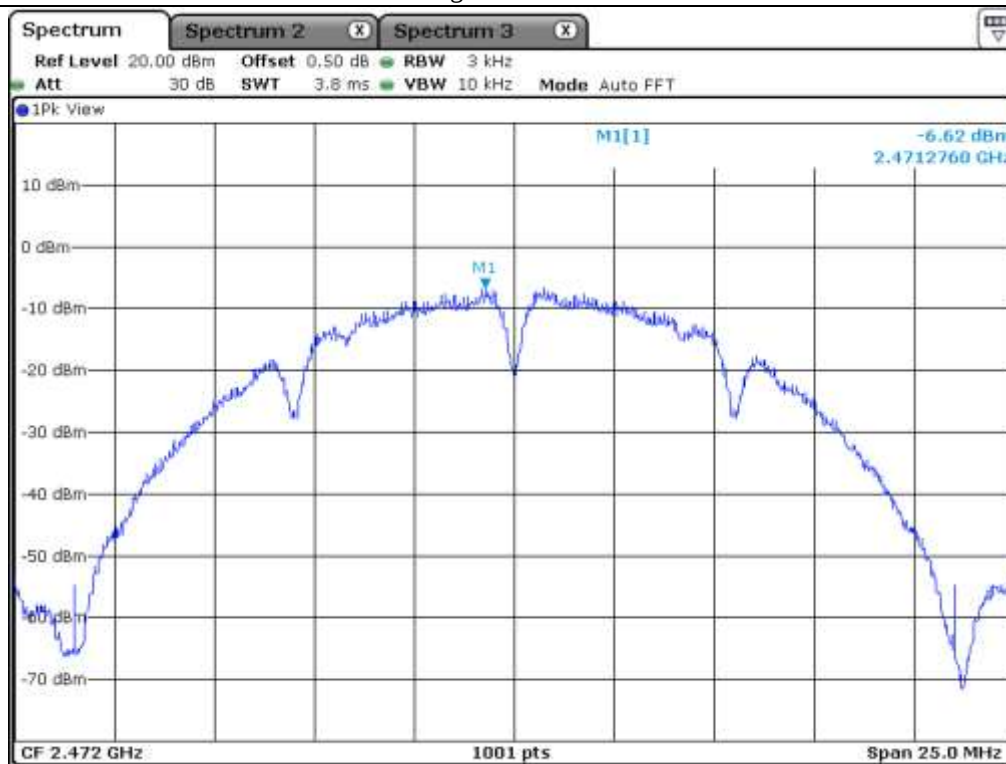
Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.5 Test data for 802.11g WLAN Mode

10.5.1 Test data for Antenna 0

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

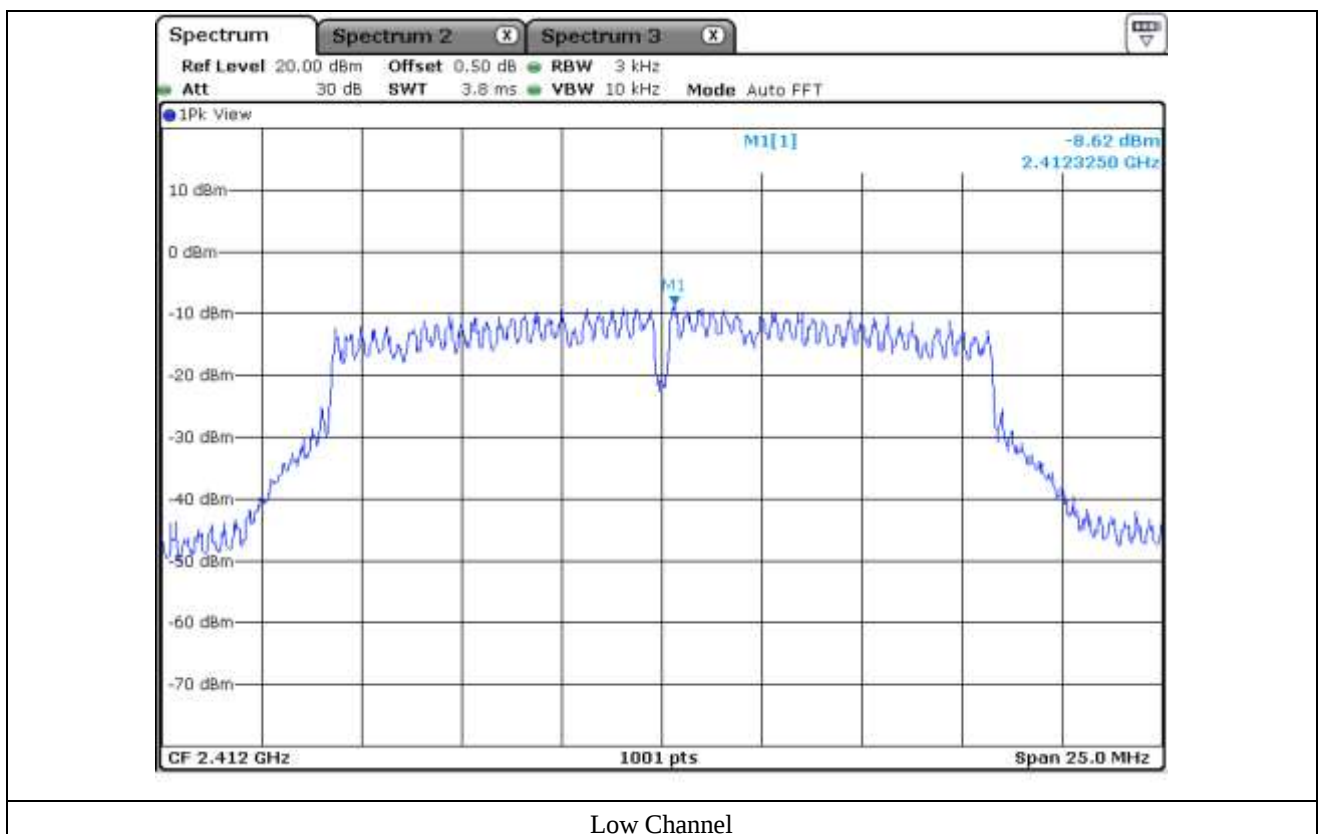
-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-8.62	8.00	16.62
Middle	2 437.00	-8.91	8.00	16.56
High 11	2 462.00	-8.59	8.00	16.59
High 12	2 467.00	-11.12	8.00	19.12
High 13	2 472.00	-13.77	8.00	21.77

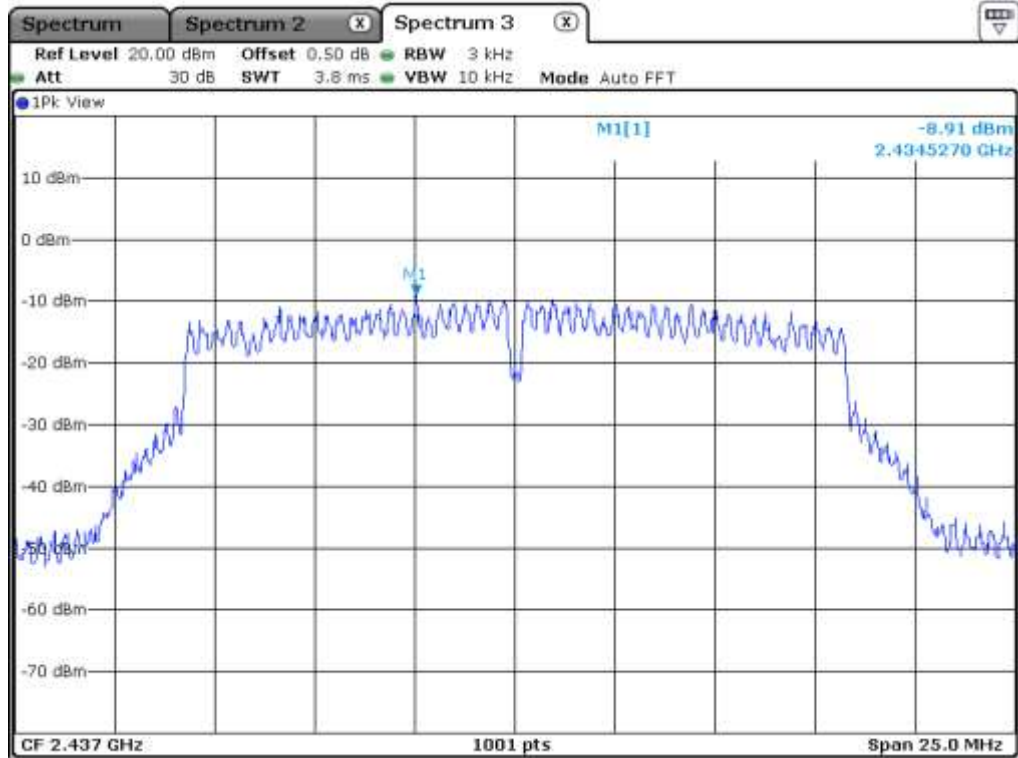
Remark. Margin = Limit – Measured value



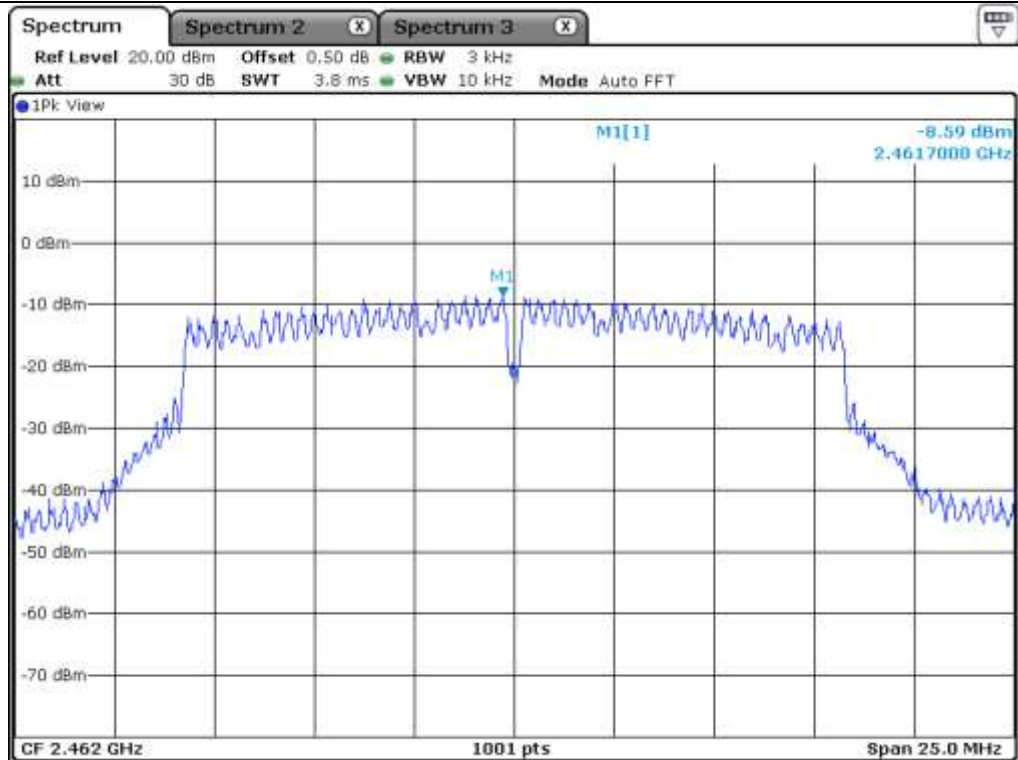
Tested by: Ha-Ram, Lee / Assistant Manager



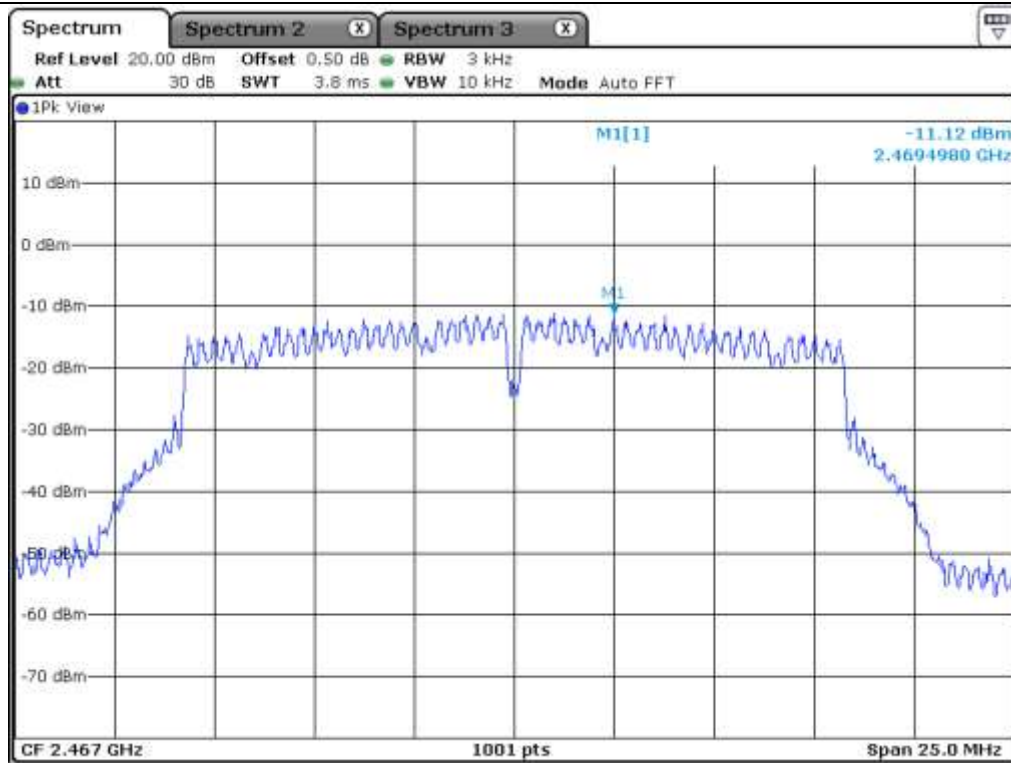
Low Channel



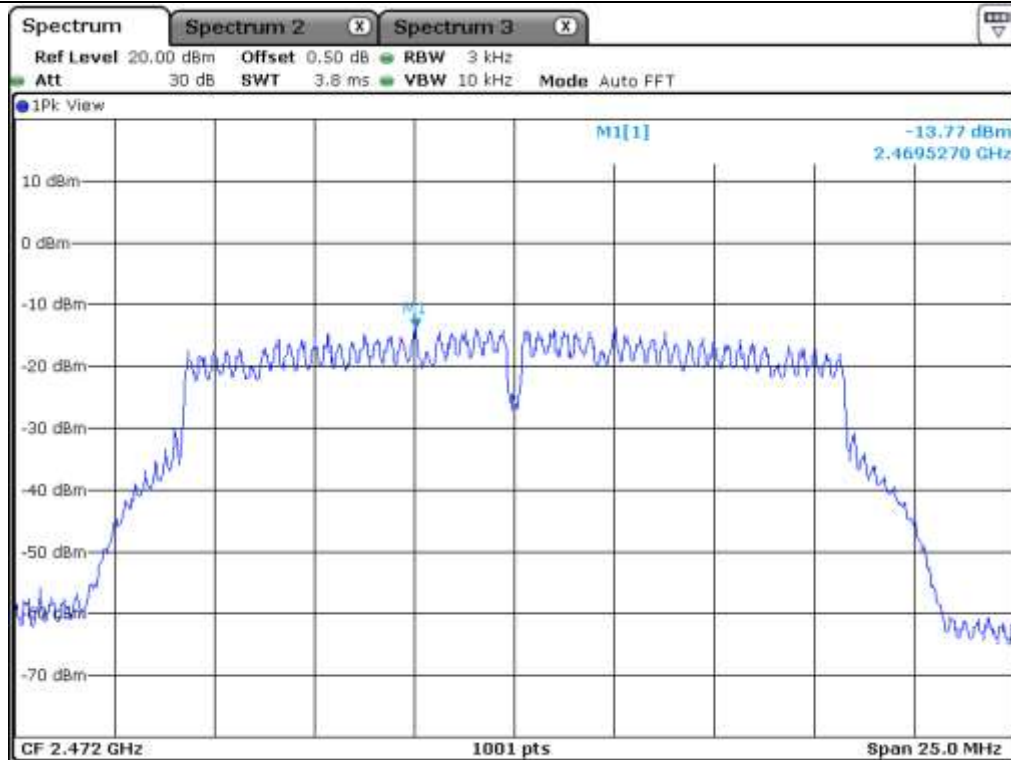
Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.5.2 Test data for Antenna 1

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

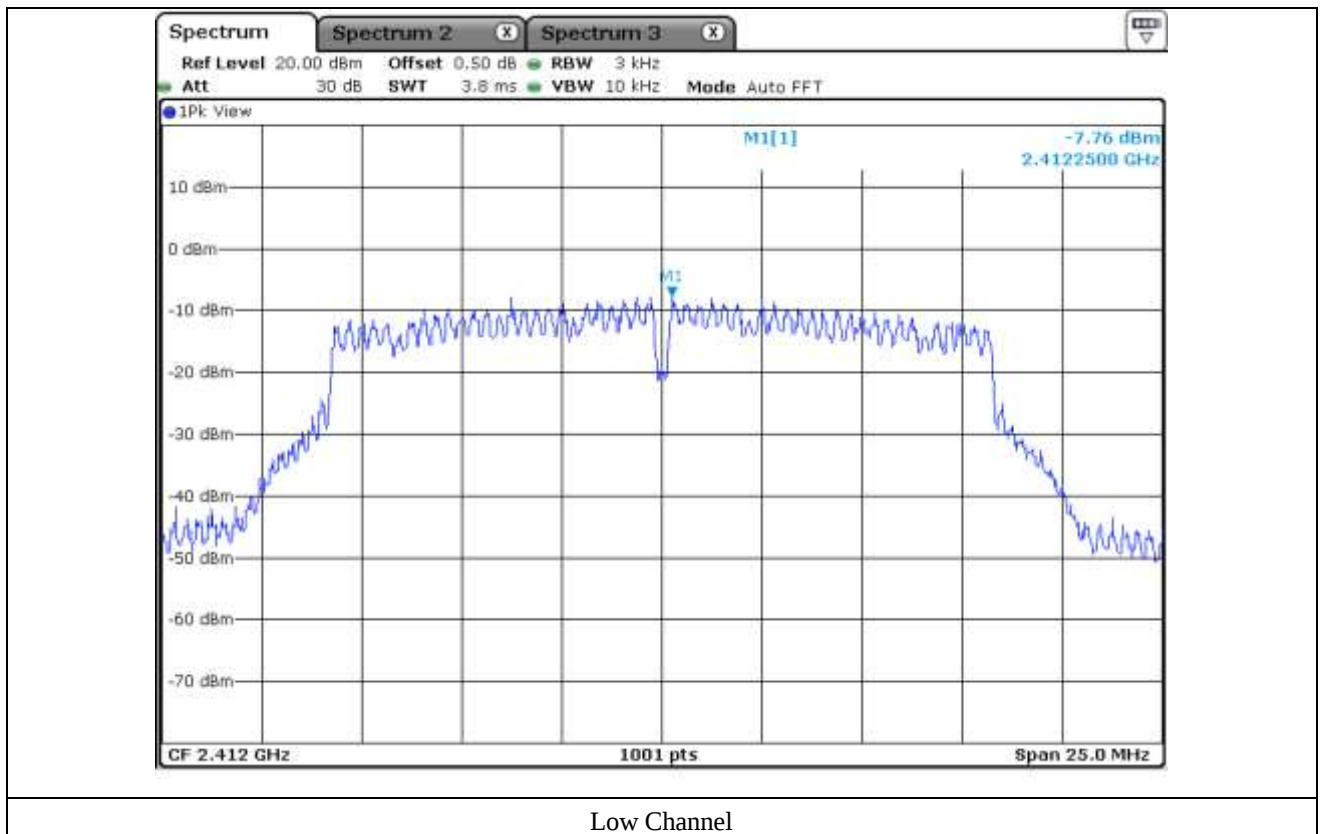
-. Operating Condition : Continuous transmitting mode

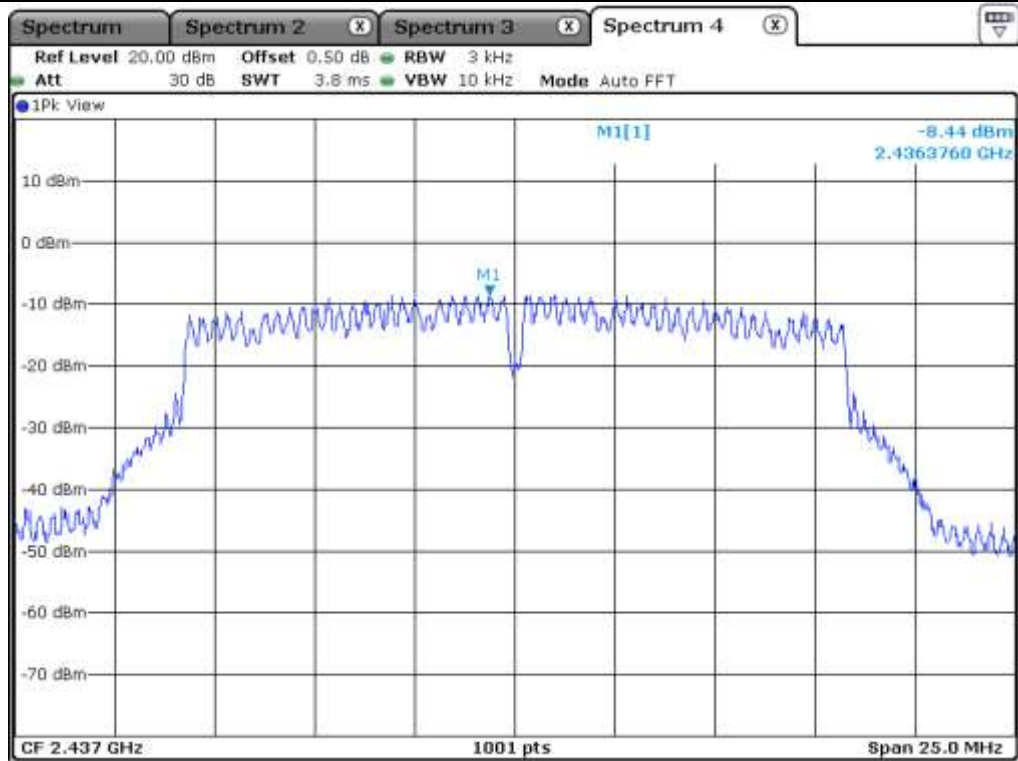
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-7.76	8.00	15.76
Middle	2 437.00	-8.44	8.00	15.81
High 11	2 462.00	-7.91	8.00	15.91
High 12	2 467.00	-10.30	8.00	18.30
High 13	2 472.00	-11.99	8.00	19.99

Remark. Margin = Limit – Measured value

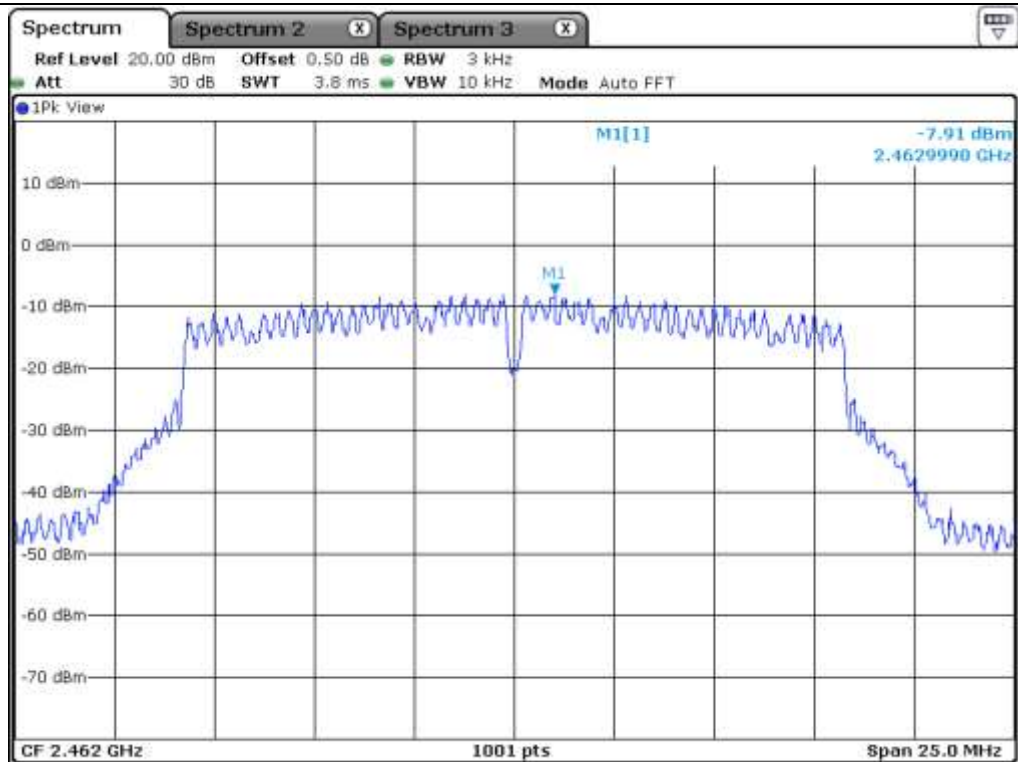


Tested by: Ha-Ram, Lee / Assistant Manager

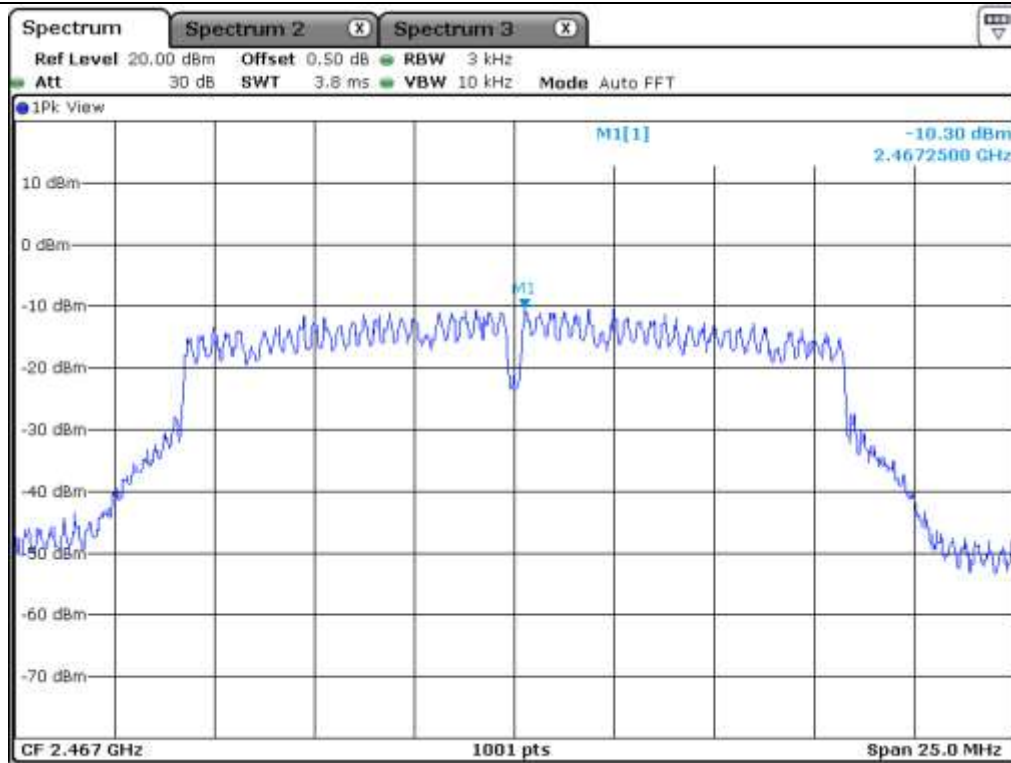




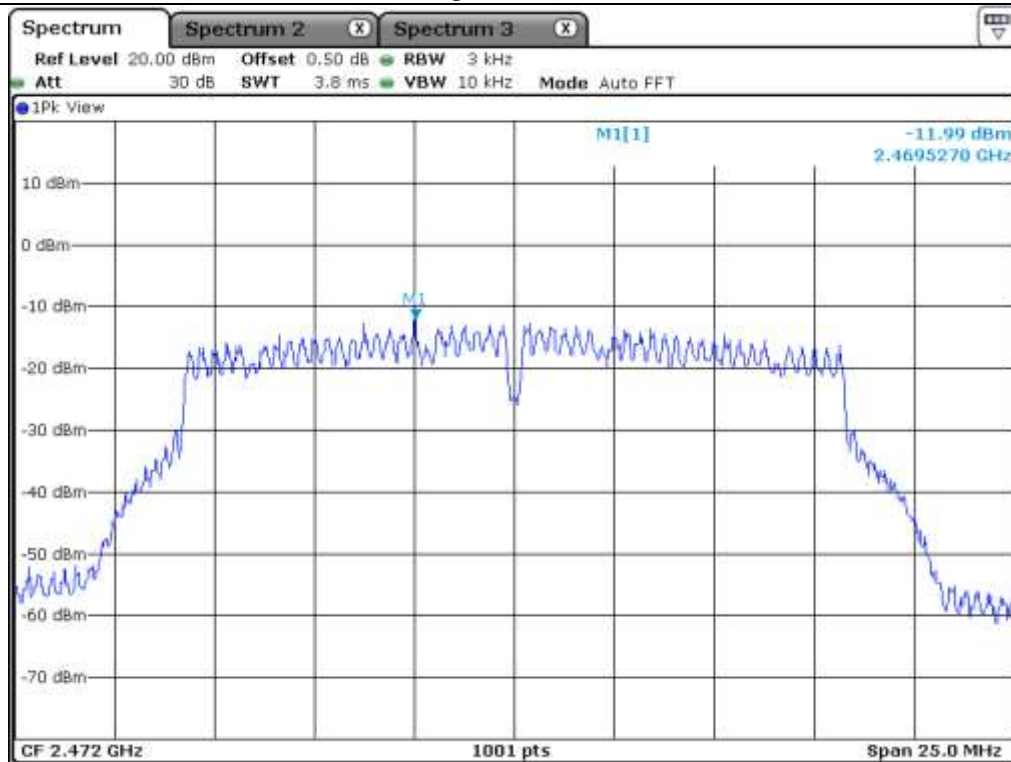
Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.5.3 Test data for Multiple Transmit

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-5.16	8.00	13.16
Middle	2 437.00	-5.66	8.00	13.16
High 11	2 462.00	-5.23	8.00	13.23
High 12	2 467.00	-7.68	8.00	15.68
High 13	2 472.00	-9.78	8.00	17.78

Remark 1 : Margin = Limit – Measured value

Remark 2 : Calculated Power Density = $10\log(10^{(\text{Antenna 0 Power Density}/10)} + 10^{(\text{Antenna 1 Power Density}/10)})$

Remark 3 : Directional gain = $10*\log[(10^{G0/20} + 10^{G1/20})^2/N]$ dBi



Tested by: Ha-Ram, Lee / Assistant Manager

10.6 Test data for 802.11n_HT20 WLAN Mode

10.6.1 Test data for Antenna 0

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

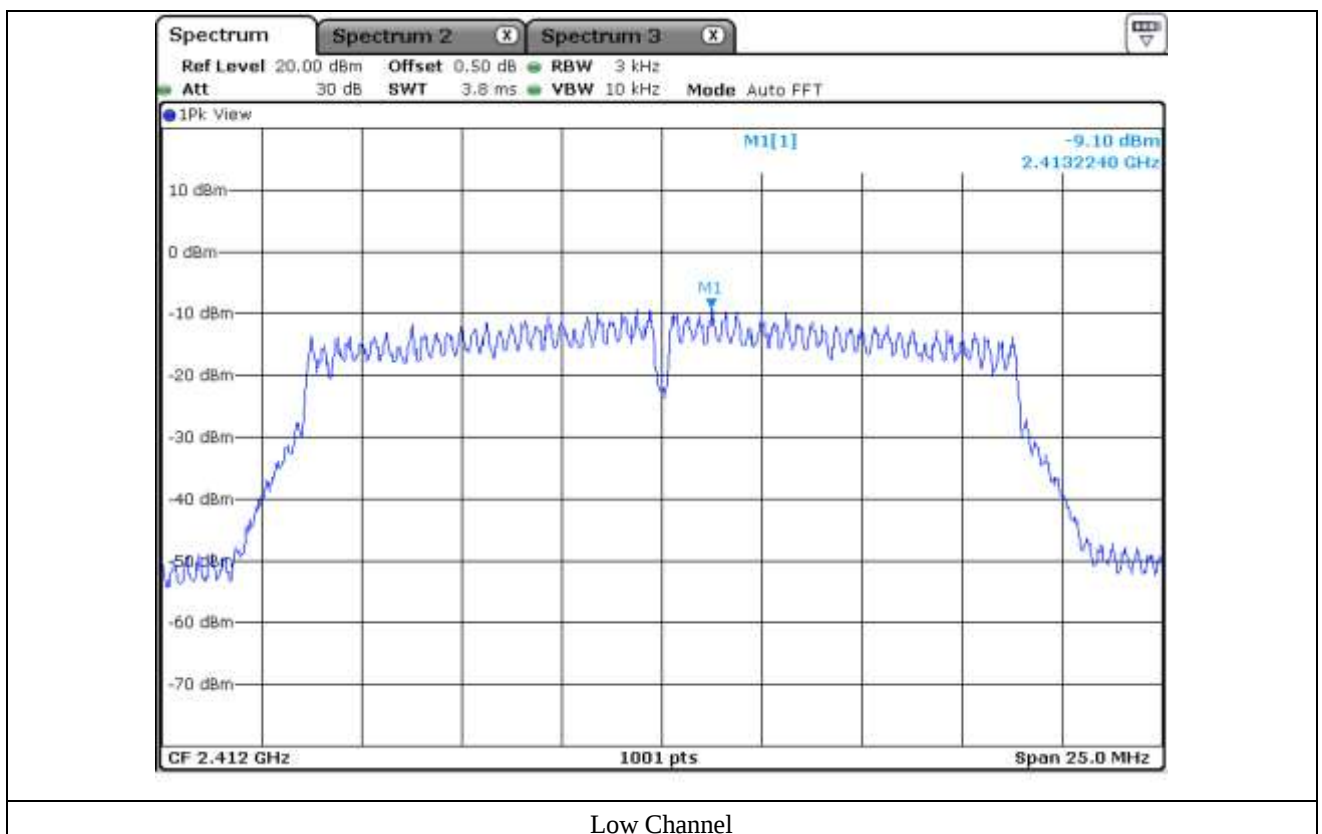
-. Operating Condition : Continuous transmitting mode

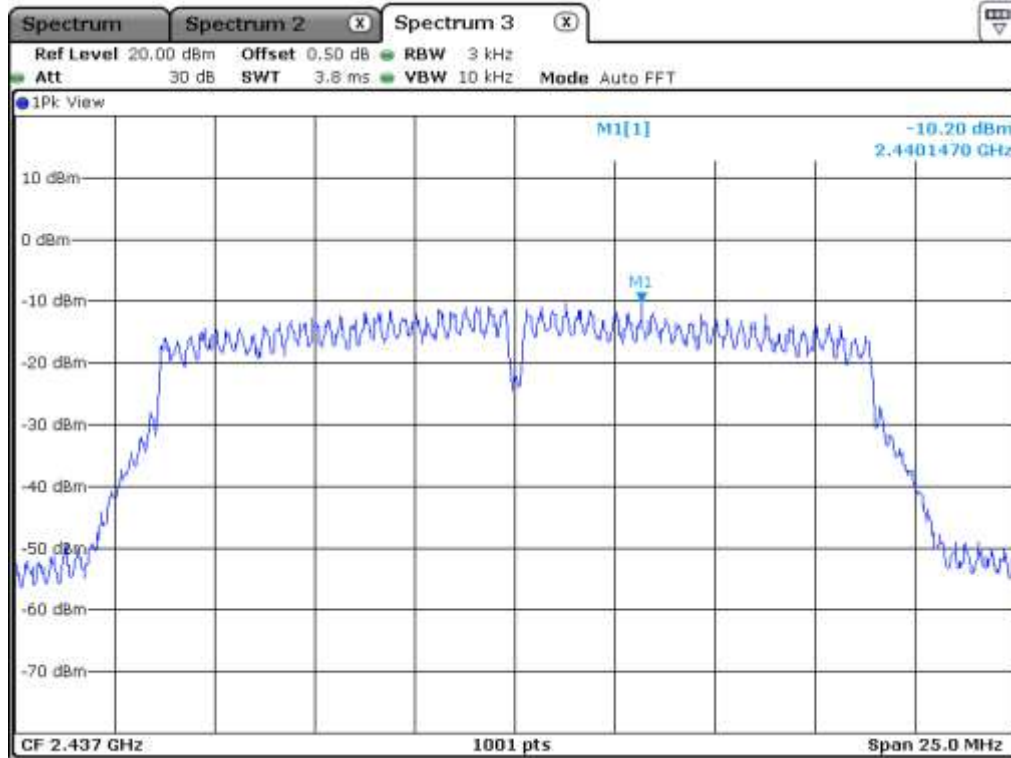
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-9.10	8.00	17.10
Middle	2 437.00	-10.20	8.00	17.86
High 11	2 462.00	-9.62	8.00	17.62
High 12	2 467.00	-11.82	8.00	19.82
High 13	2 472.00	-13.06	8.00	21.06

Remark. Margin = Limit – Measured value

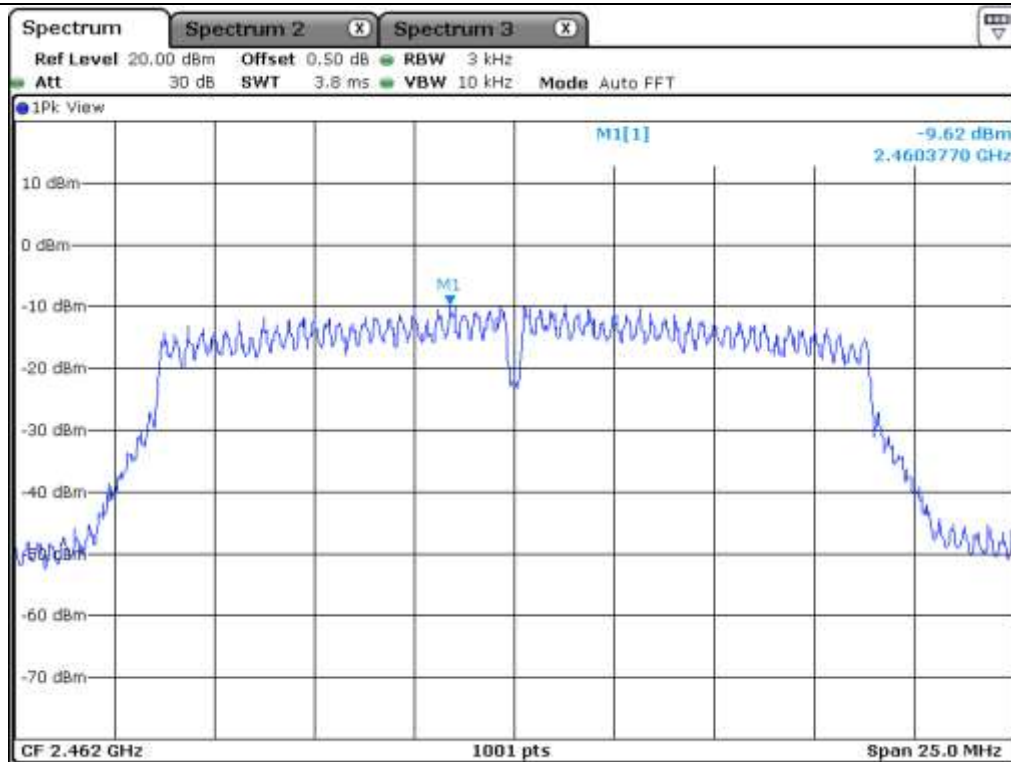


Tested by: Ha-Ram, Lee / Assistant Manager

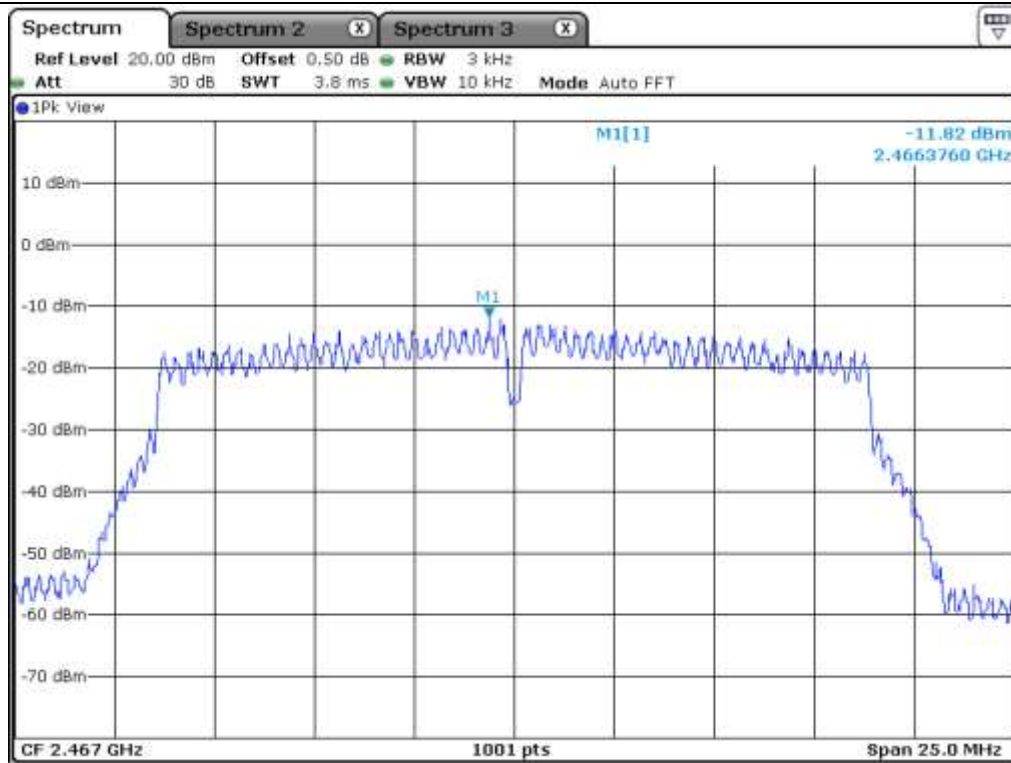




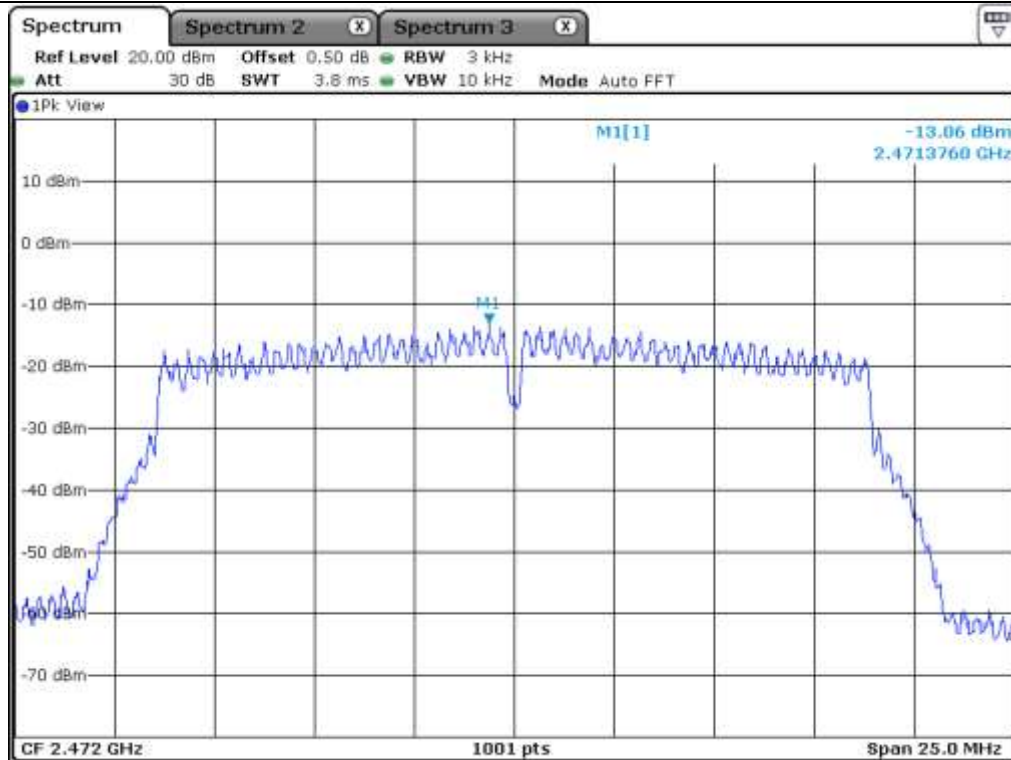
Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.6.2 Test data for Antenna 1

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

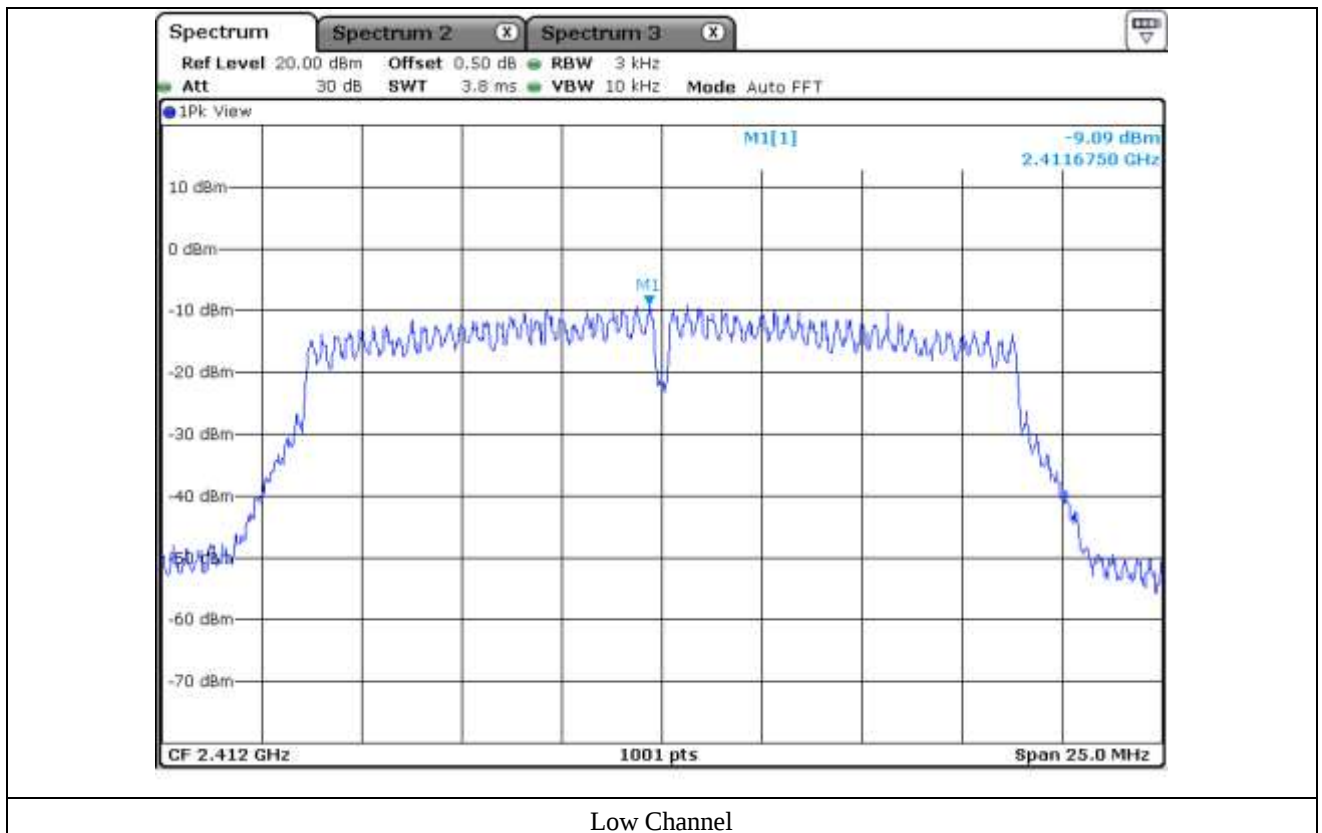
-. Operating Condition : Continuous transmitting mode

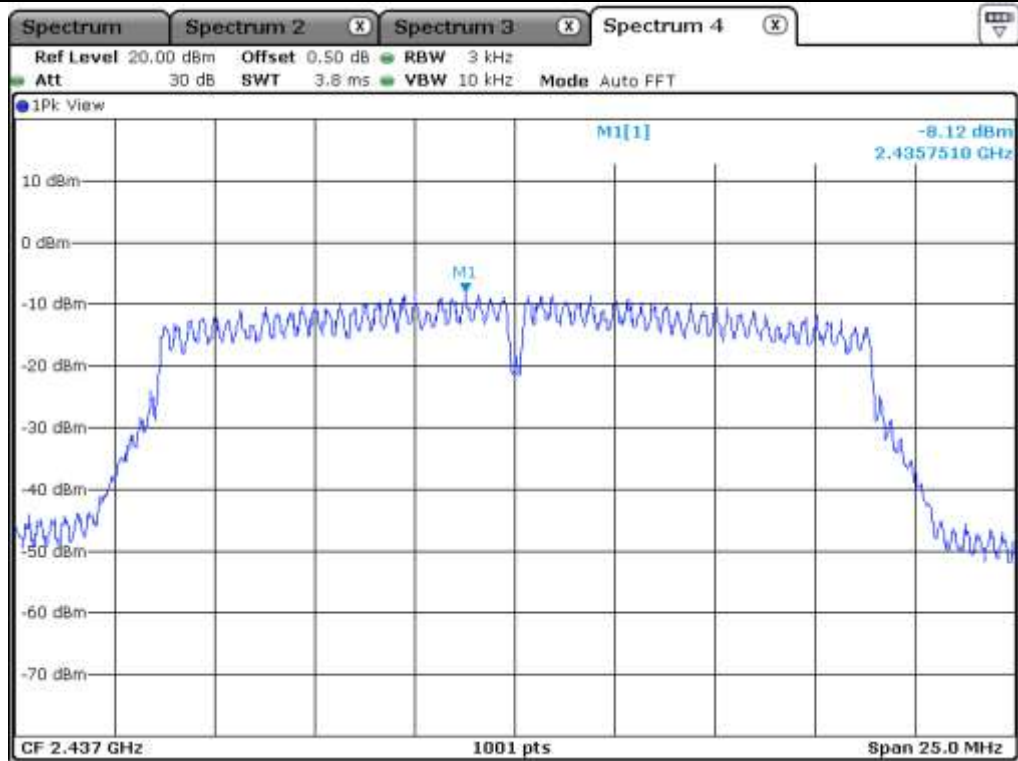
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-9.09	8.00	17.09
Middle	2 437.00	-8.12	8.00	17.43
High 11	2 462.00	-8.85	8.00	16.85
High 12	2 467.00	-11.47	8.00	19.47
High 13	2 472.00	-13.03	8.00	21.03

Remark. Margin = Limit – Measured value

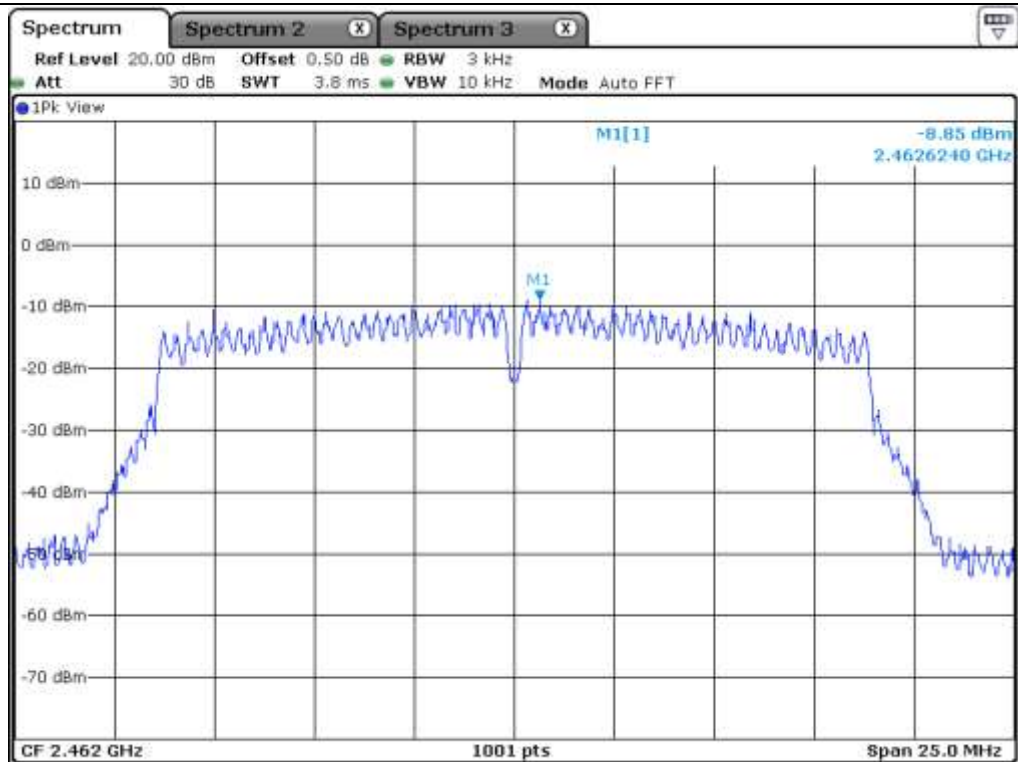


Tested by: Ha-Ram, Lee / Assistant Manager

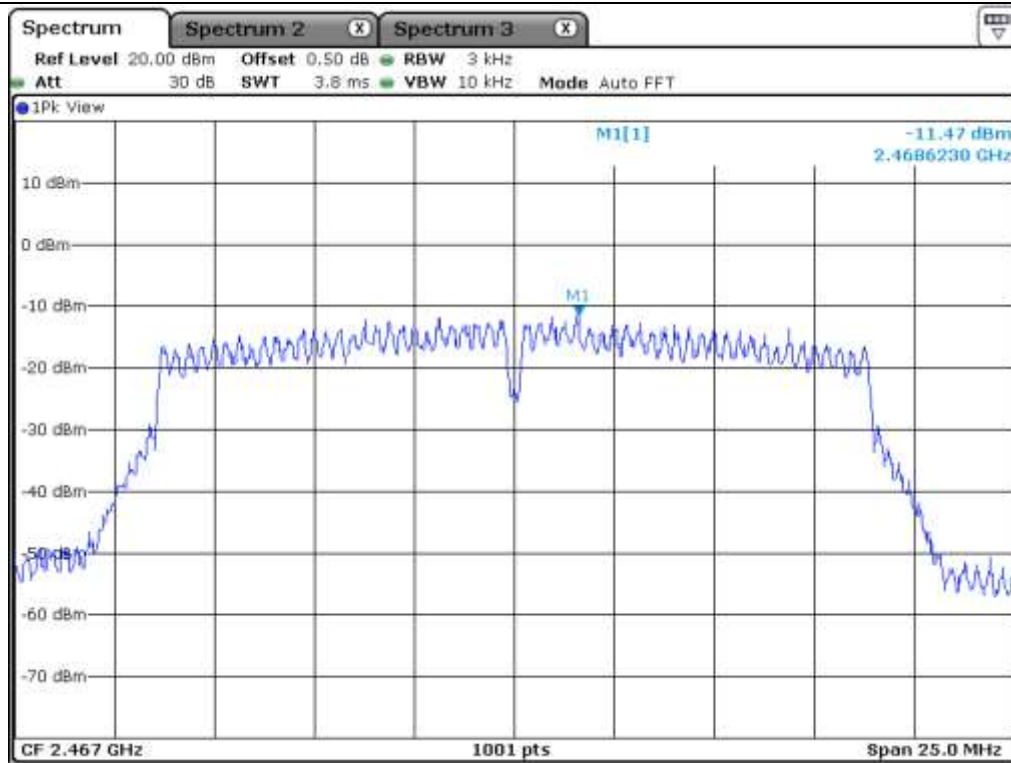




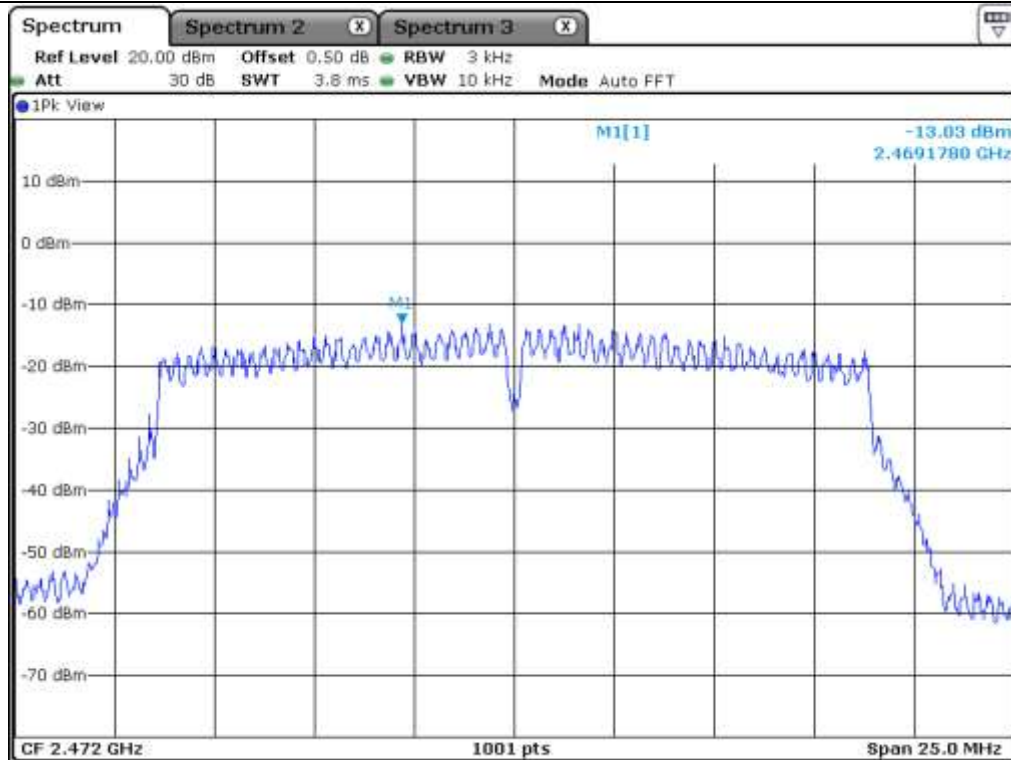
Middle Channel



High Channel 11



High Channel 12



High Channel 13

10.6.3 Test data for Multiple Transmit

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-6.08	8.00	14.08
Middle	2 437.00	-6.03	8.00	14.63
High 11	2 462.00	-6.21	8.00	14.21
High 12	2 467.00	-8.63	8.00	16.63
High 13	2 472.00	-10.03	8.00	18.03

Remark 1 : Margin = Limit – Measured value

Remark 2 : Calculated Power Density = $10\log(10^{(\text{Antenna 0 Power Density}/10)} + 10^{(\text{Antenna 1 Power Density}/10)})$

Remark 3 : Directional gain = $10*\log[(10^{G0/20} + 10^{G1/20})^2/N]$ dBi



Tested by: Ha-Ram, Lee / Assistant Manager

10.7 Test data for 802.11n_HT40 WLAN Mode

10.7.1 Test data for Antenna 0

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

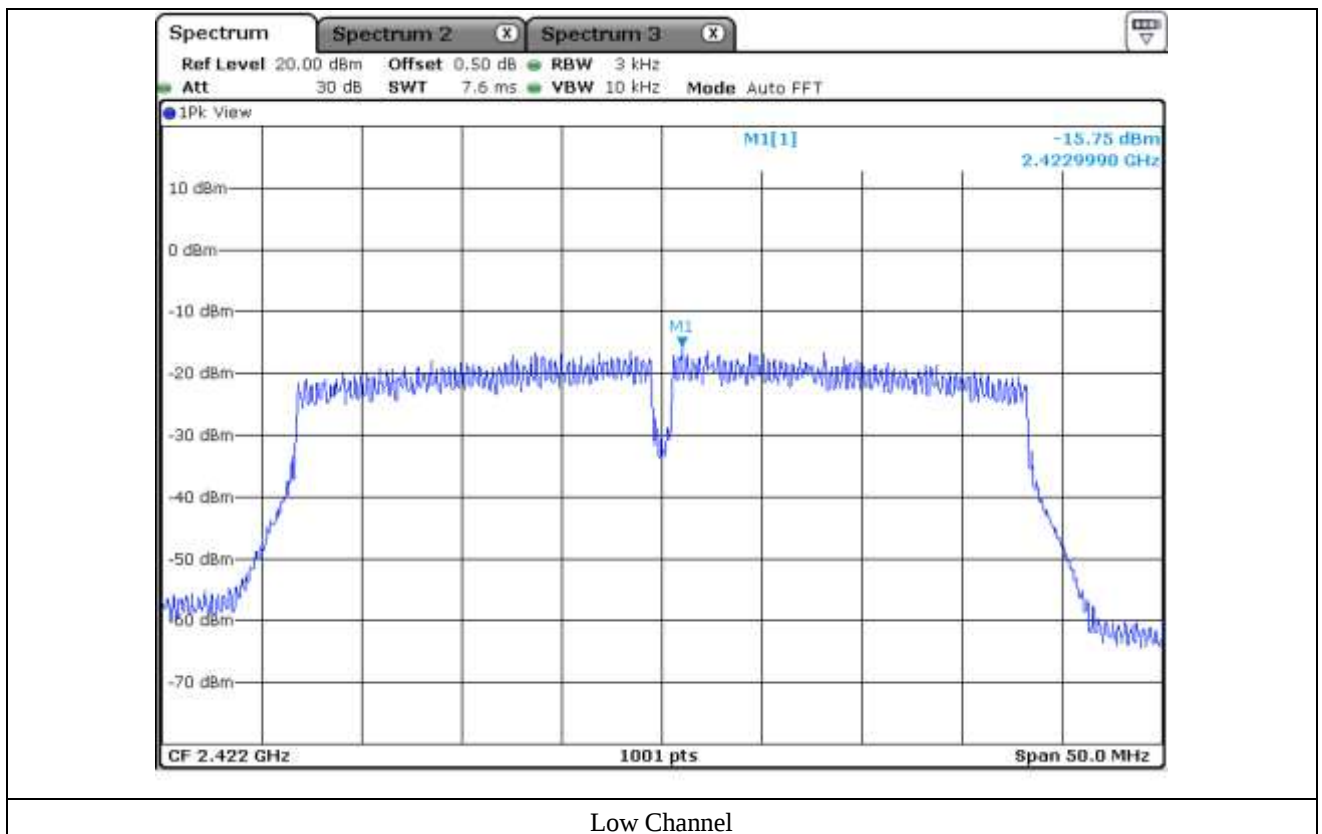
-. Operating Condition : Continuous transmitting mode

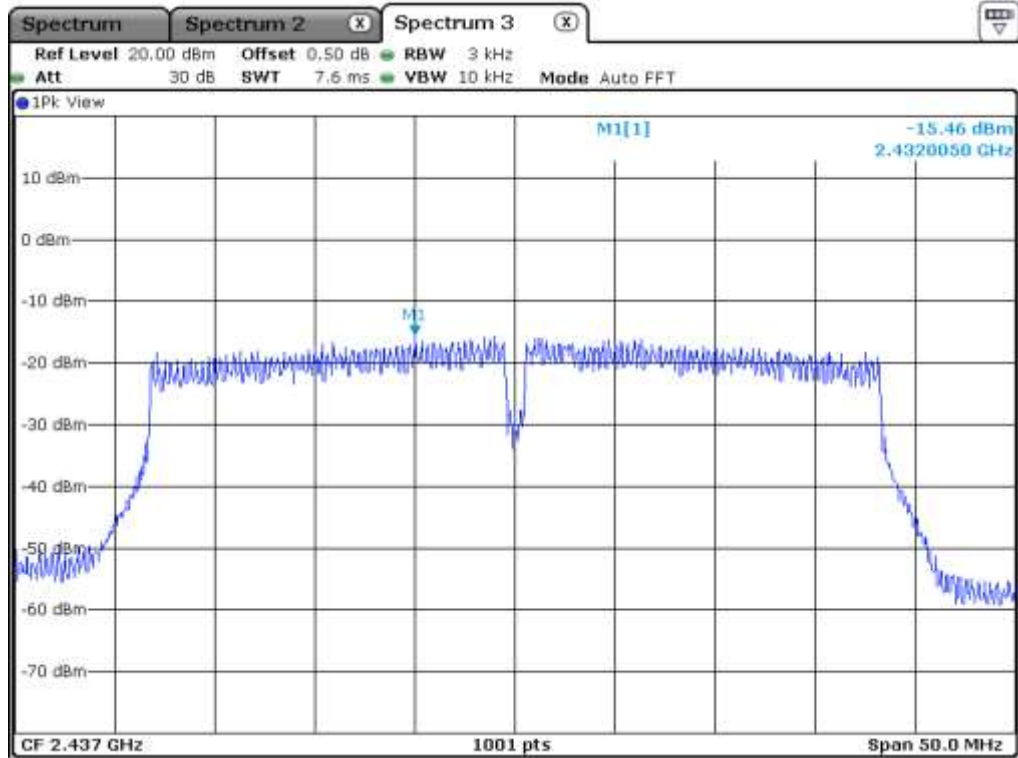
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-15.75	8.00	23.75
Middle	2 437.00	-15.46	8.00	23.15
High 9	2 452.00	-14.58	8.00	22.58
High 10	2 457.00	-15.21	8.00	23.21
High 11	2 462.00	-16.72	8.00	24.72

Remark. Margin = Limit – Measured value

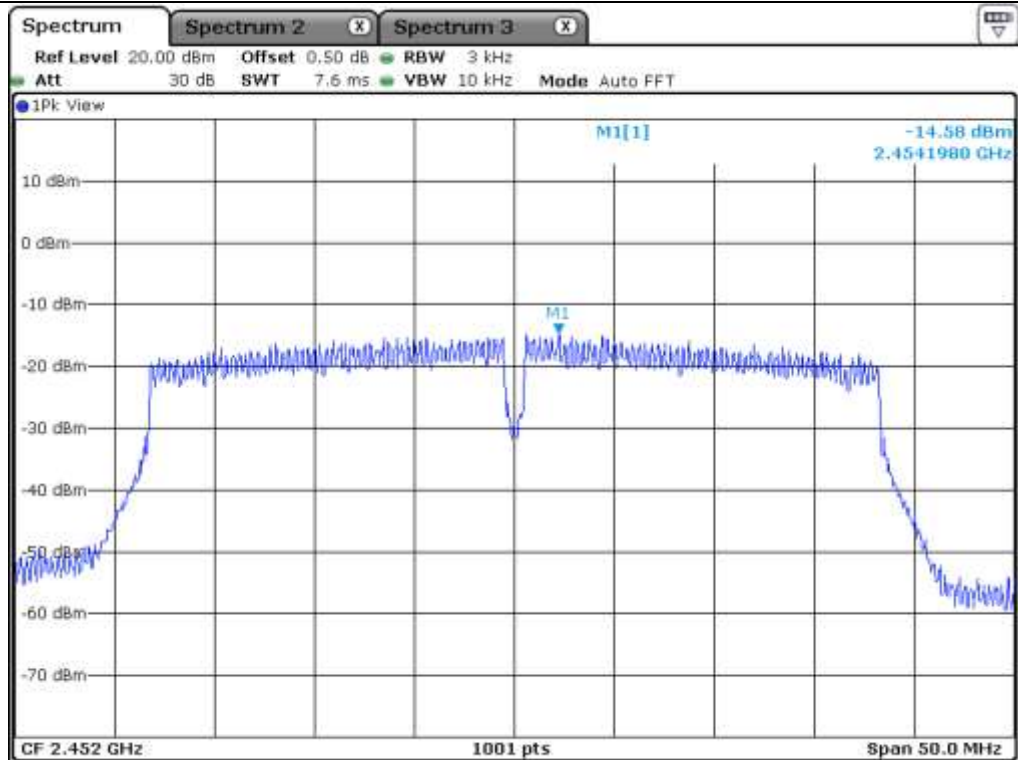


Tested by: Ha-Ram, Lee / Assistant Manager

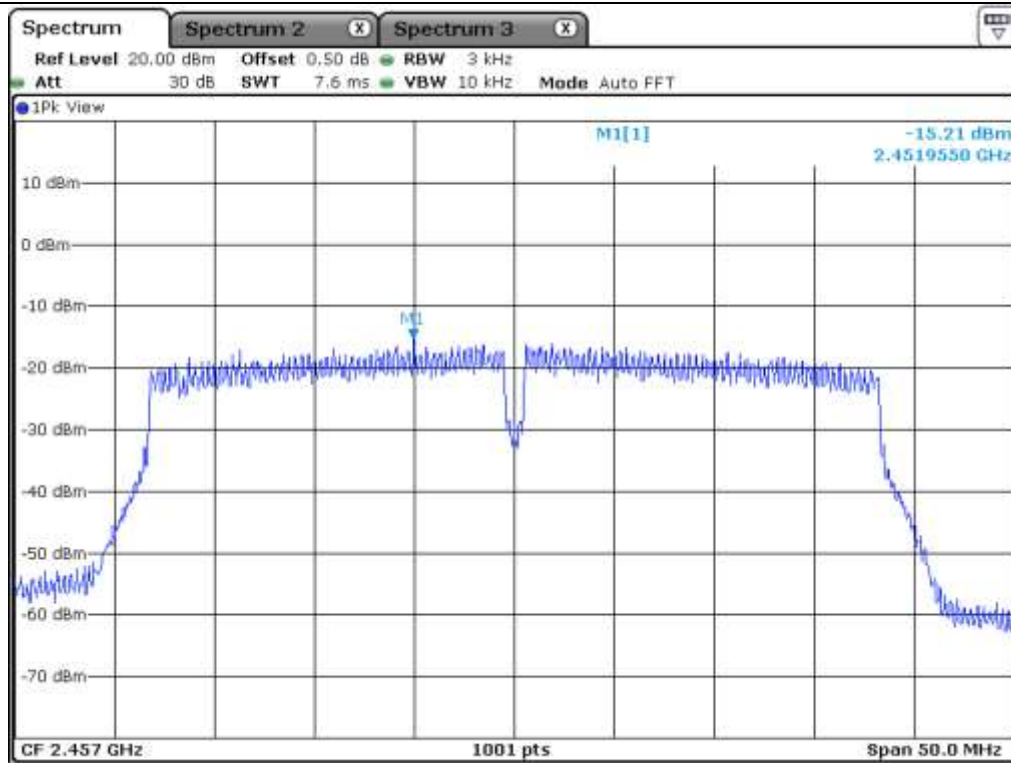




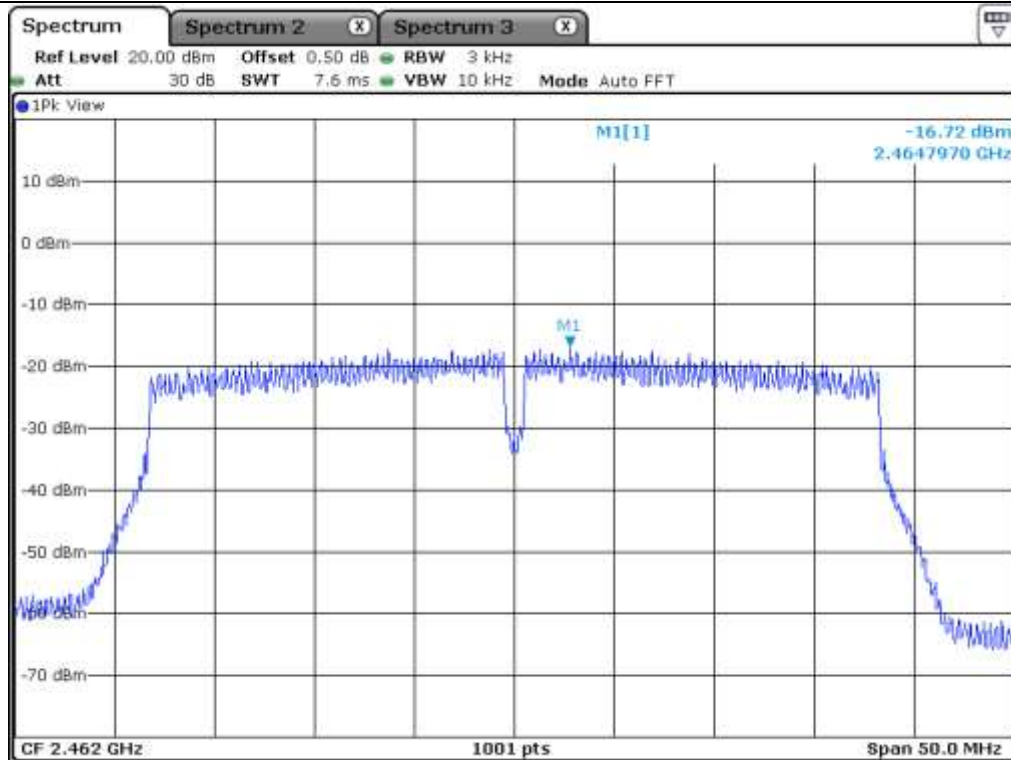
Middle Channel



High Channel 9



High Channel 10



High Channel 11

10.7.2 Test data for Antenna 1

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

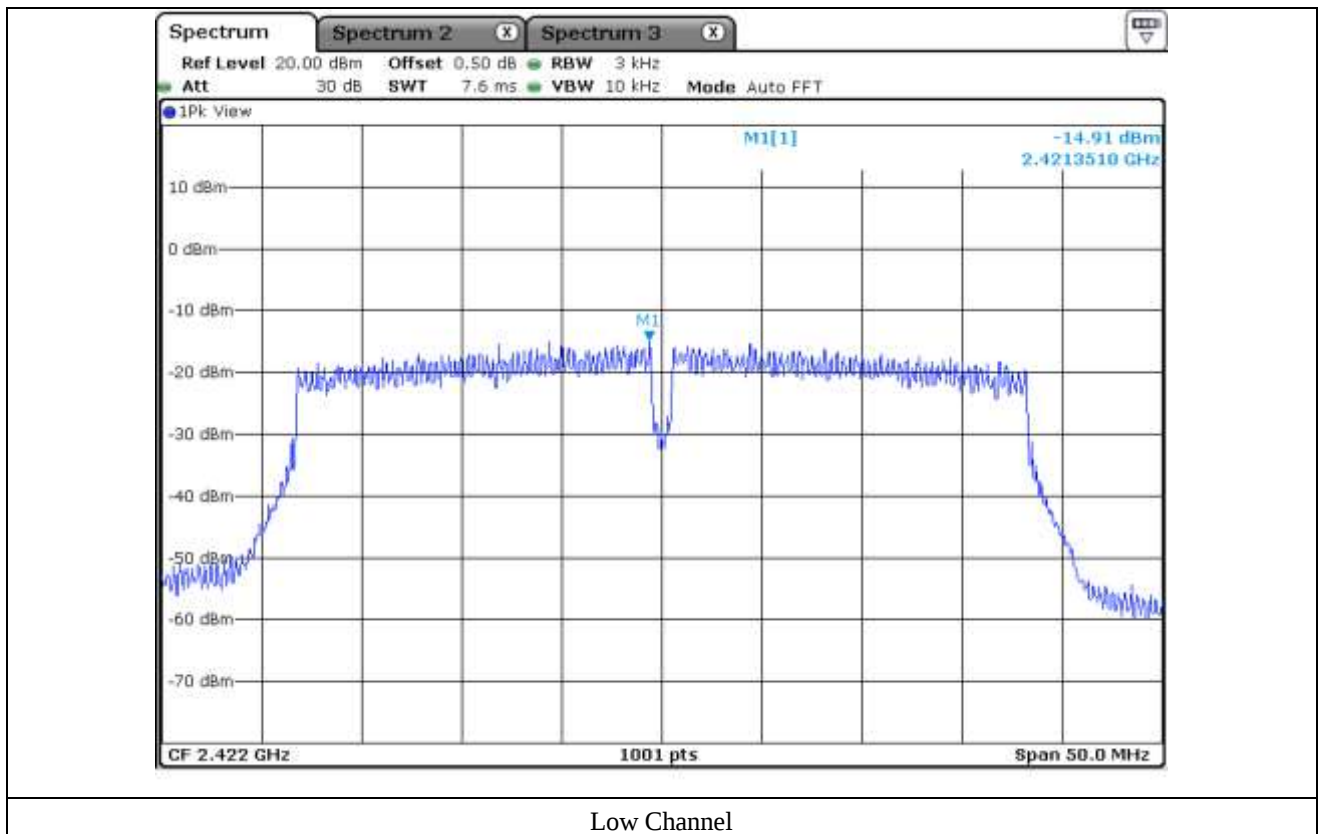
-. Operating Condition : Continuous transmitting mode

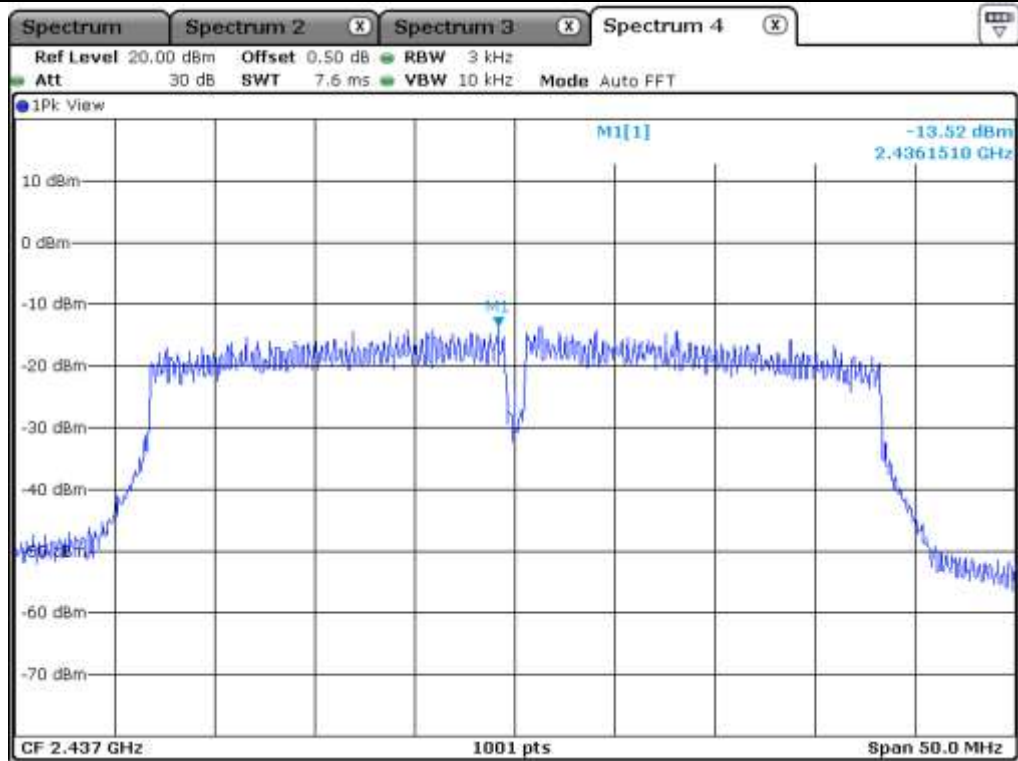
CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-14.91	8.00	22.91
Middle	2 437.00	-13.52	8.00	21.20
High 9	2 452.00	-13.59	8.00	21.56
High 10	2 457.00	-14.52	8.00	22.52
High 11	2 462.00	-14.71	8.00	22.71

Remark. Margin = Limit – Measured value

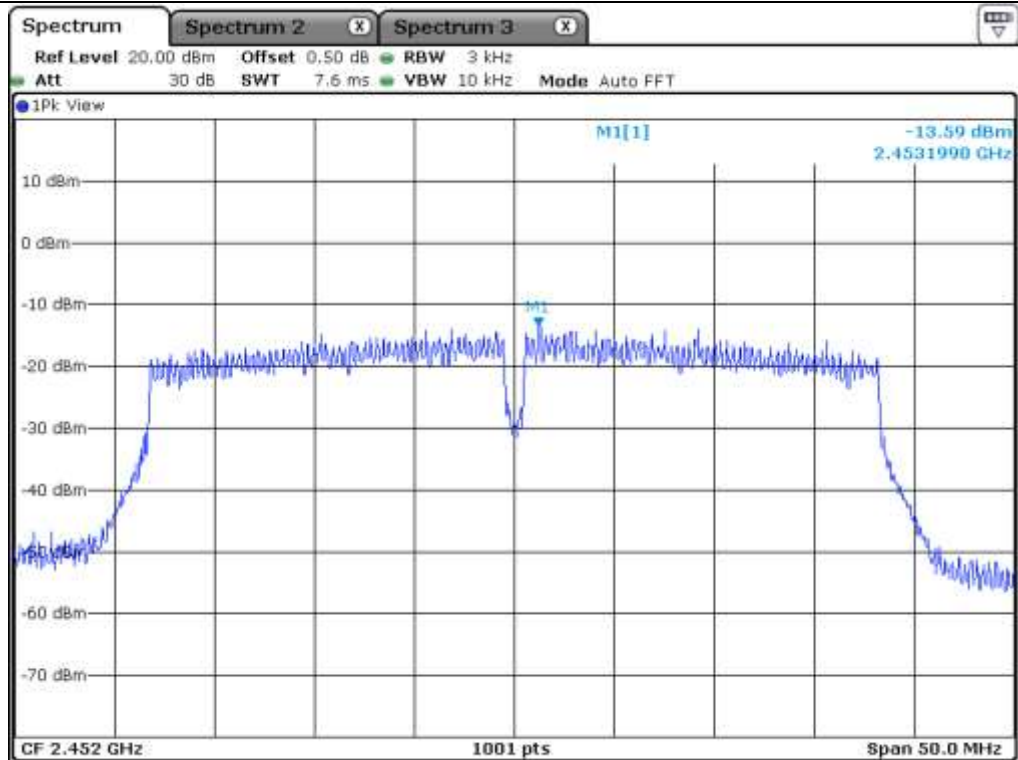


Tested by: Ha-Ram, Lee / Assistant Manager

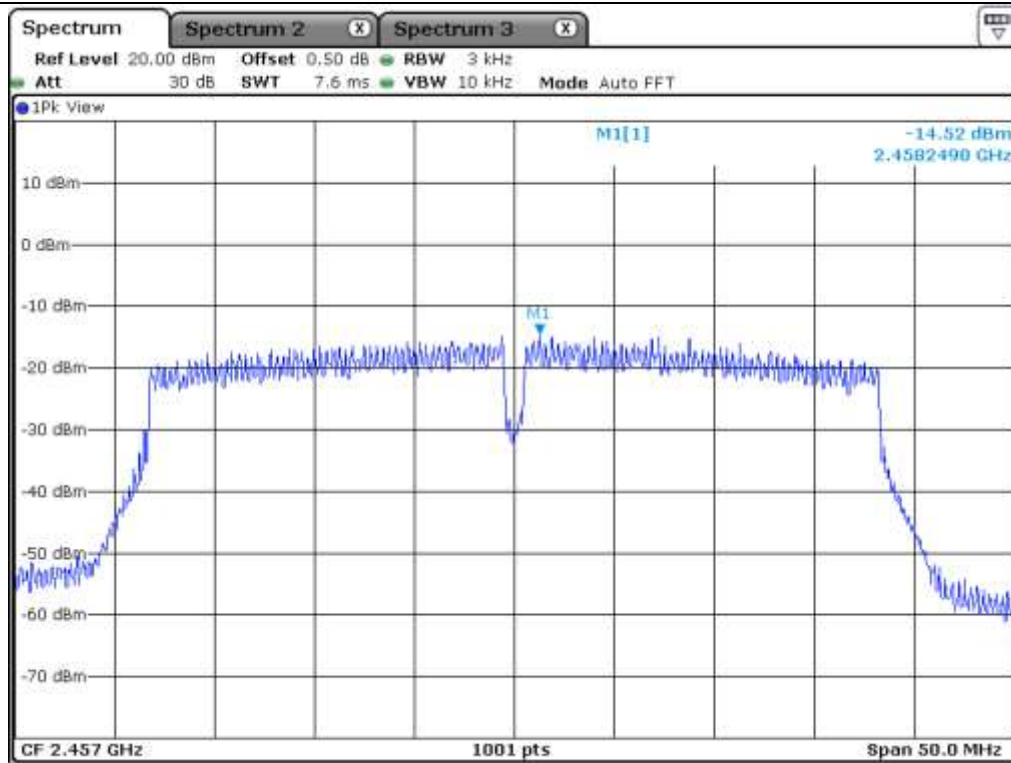




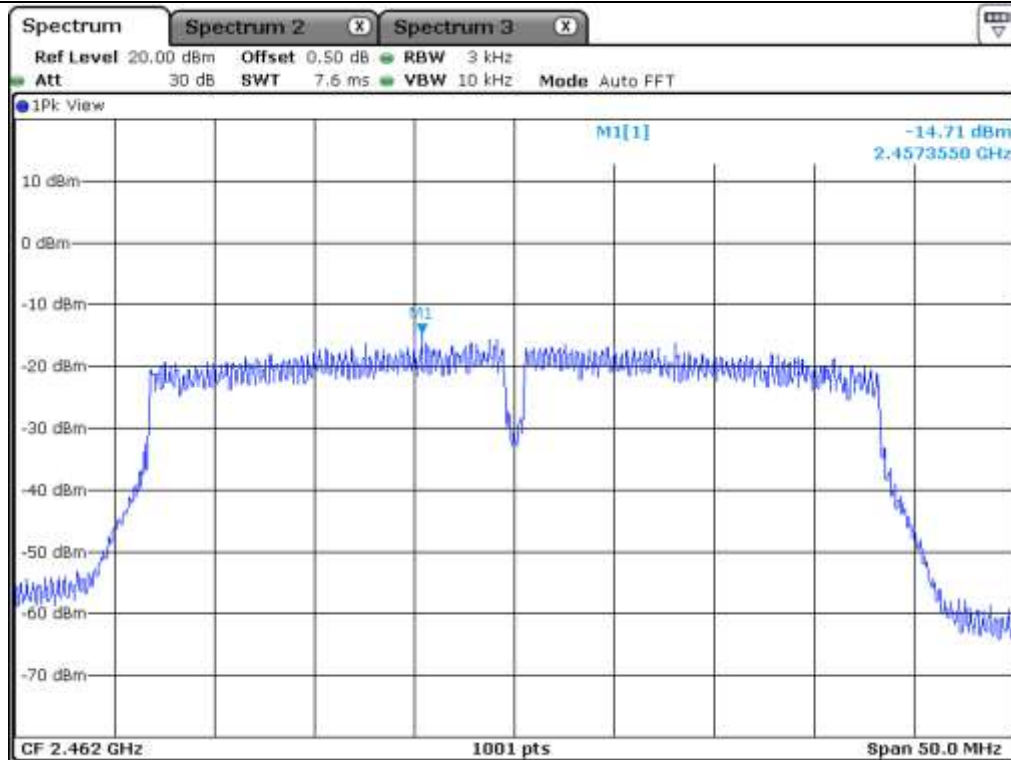
Middle Channel



High Channel 9



High Channel 10



High Channel 11

10.7.3 Test data for Multiple Transmit

-. Test Date : December 03, 2019 ~ December 05, 2019

-. Test Result : Pass

-. Operating Condition : Continuous transmitting mode

CHANNEL	FREQUENCY(MHz)	MEASURED VALUE (dBm)	LIMIT (dBm)	MARGIN (dB)
Low	2 412.00	-12.30	8.00	20.30
Middle	2 437.00	-11.37	8.00	19.06
High 9	2 452.00	-11.05	8.00	19.03
High 10	2 457.00	-11.84	8.00	19.84
High 11	2 462.00	-12.59	8.00	20.59

Remark 1 : Margin = Limit – Measured value

Remark 2 : Calculated Power Density = $10\log(10^{(\text{Antenna 0 Power Density}/10)} + 10^{(\text{Antenna 1 Power Density}/10)})$

Remark 3 : Directional gain = $10*\log[(10^{G0/20} + 10^{G1/20})^2/N]$ dBi



Tested by: Ha-Ram, Lee / Assistant Manager

11. RADIATED EMISSION TEST

11.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 % R.H.

11.2 Test set-up

The radiated emissions measurements were on the 3 m semi anechoic chamber. The EUT and other support equipment were placed on 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.

11.3 Test equipment used

Model Number	Manufacturer	Description	Serial Number	Last Cal.
■ - FSV30	Rohde & Schwarz	Signal Analyzer	101199	Mar. 11, 2019 (1Y)
■ - ESW	Rohde & Schwarz	EMI Test Receiver	101851	Aug. 07, 2019 (1Y)
■ - 310N	Sonoma Instrument	Pre-Amplifier	312544	Mar. 18, 2019 (1Y)
■ - DT3000-3t	Innco System	Turn Table	DT3000/093	N/A
■ - MA-4000XPET	Innco System	Antenna Master	MA4000/509	N/A
■ - Loop Antenna	Schwarzbeck	FMZB 1513	1513-235	May. 13, 2018 (2Y)
■ - VULB9163	Schwarzbeck	TRILOG Broadband Antenna	777	Apr. 13, 2018 (2Y)
■ - BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jul. 16, 2019 (1Y)

All test equipment used is calibrated on a regular basis.

11.4 Test data for 30 MHz ~ 1 GHz

11.4.1 Test data for WLAN 2.4 GHz

Humidity Level : 48 % R.H.

Temperature: 24 °C

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

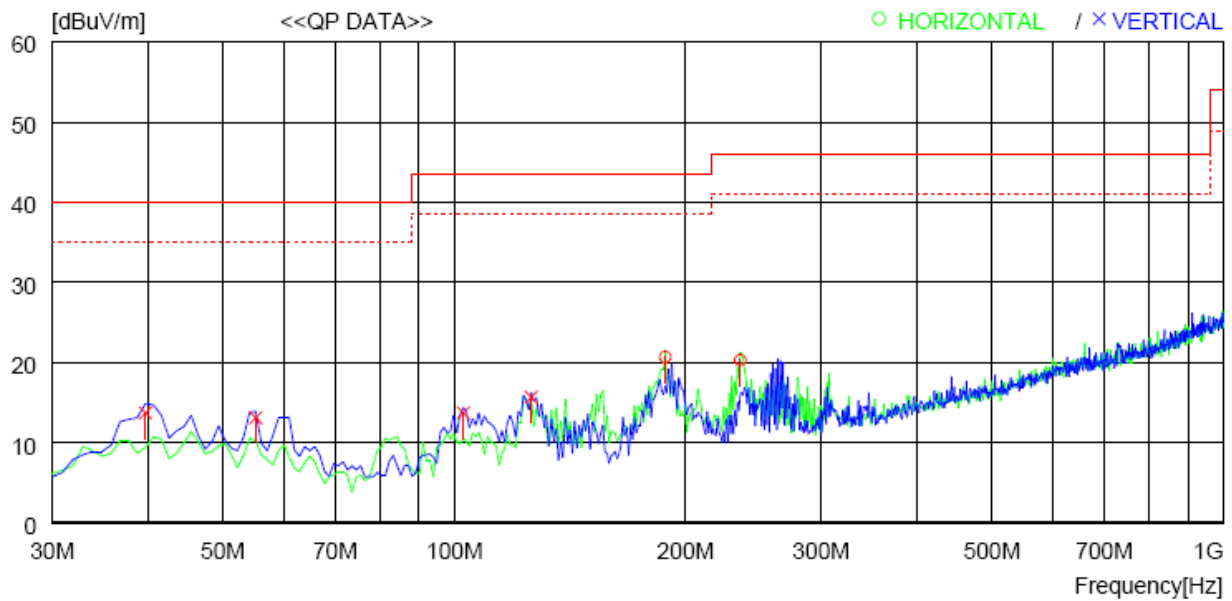
Result : PASSED

EUT : Wi-Fi/BT Transceiver

Date: December 03, 2019 ~ December 05, 2019

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

-.Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
		QP	FACTOR							
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	188.110	41.2	9.9	2.7	33.1	20.7	43.5	22.8	100	359
2	235.640	38.4	11.9	3.0	33.0	20.3	46.0	25.7	200	0
----- Vertical -----										
3	39.700	31.8	13.6	1.4	33.1	13.7	40.0	26.3	100	0
4	55.220	31.1	13.5	1.6	33.1	13.1	40.0	26.9	100	0
5	102.750	32.8	11.9	2.1	33.1	13.7	43.5	29.8	100	208
6	126.030	36.8	9.8	2.2	33.1	15.7	43.5	27.8	100	172



Tested by: Ha-Ram, Lee / Assistant Manager

11.4.2 Test data for Intermodulation Mode(Bluetooth LE + WLAN 2.4 GHz)

Humidity Level : 48 % R.H.

Temperature: 24 °C

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

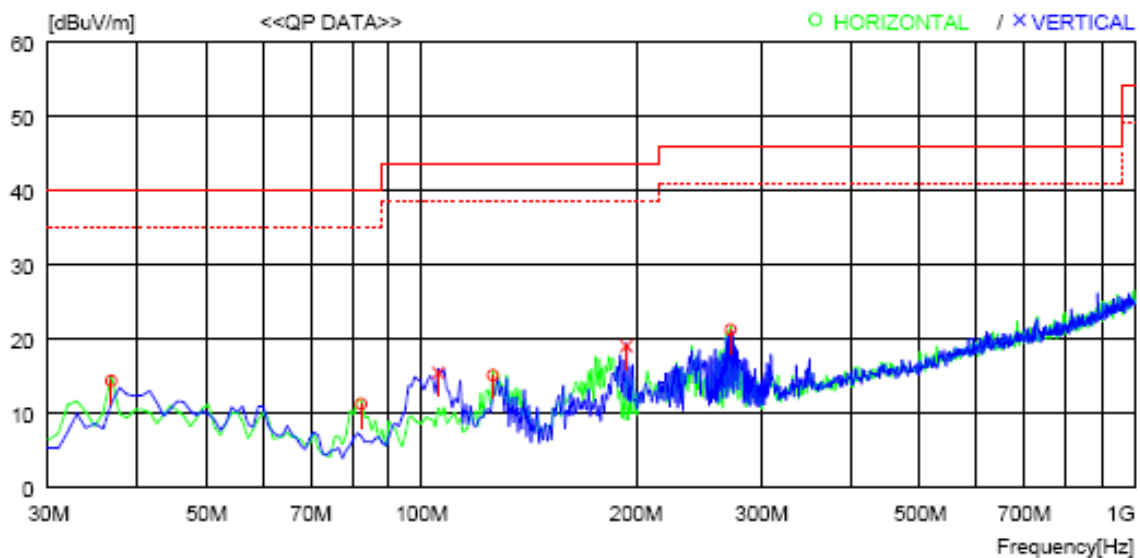
Result : PASSED

EUT : Wi-Fi/BT Transceiver

Date: December 03, 2019 ~ December 05, 2019

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

- Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



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	36.790	33.1	13.0	1.3	33.1	14.3	40.0	25.7	100	154
2	82.380	34.2	8.2	1.9	33.1	11.2	40.0	28.8	400	8
3	126.030	36.2	9.8	2.2	33.1	15.1	43.5	28.4	200	76
4	271.530	38.1	12.9	3.2	33.0	21.2	46.0	24.8	100	359
----- Vertical -----										
5	105.660	34.8	11.6	2.1	33.1	15.4	43.5	28.1	100	0
6	193.930	39.2	10.2	2.7	33.1	19.0	43.5	24.5	100	0



Tested by: Ha-Ram, Lee / Assistant Manager

11.4.3 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz)

Humidity Level : 48 % R.H.

Temperature: 24 °C

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

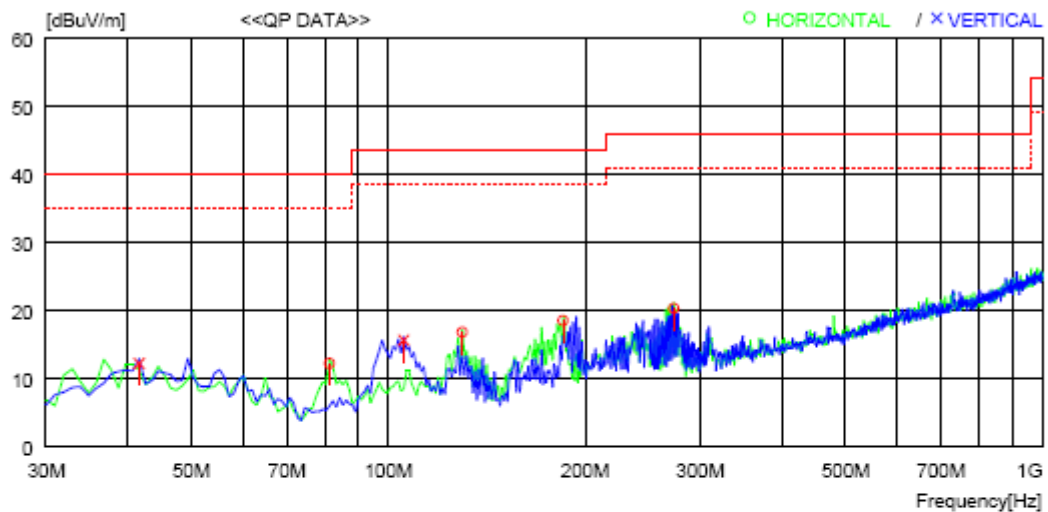
Result : PASSED

EUT : Wi-Fi/BT Transceiver

Date: December 03, 2019 ~ December 05, 2019

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

-.Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



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	81.410	35.4	8.0	1.9	33.1	12.2	40.0	27.8	300	165
2	129.910	38.2	9.4	2.2	33.0	16.8	43.5	26.7	200	47
3	185.200	39.1	9.8	2.7	33.1	18.5	43.5	25.0	100	359
4	273.470	37.2	12.9	3.2	33.0	20.3	46.0	25.7	100	359
----- Vertical -----										
5	41.640	30.1	13.8	1.4	33.1	12.2	40.0	27.8	200	359
6	105.660	35.0	11.6	2.1	33.1	15.6	43.5	27.9	100	56



Tested by: Ha-Ram, Lee / Assistant Manager

11.5 Test data for Below 30 MHz

- . Test Date : December 03, 2019 ~ December 05, 2019
- . 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
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
All emissions observed were 20 dB below the limit.									

11.6 Test data for above 1 GHz

- . Test Date : December 03, 2019 ~ December 05, 2019
- . Resolution bandwidth : 1 MHz for Peak and Average Mode
- . Video bandwidth : 1 MHz for Peak Mode, 10 Hz for Average Mode
- . Frequency range : 1 GHz ~ 26.5 GHz
- . Measurement distance : 3 m
- . Operating mode : Transmitting mode

Frequency (MHz)	Reading (dBμV)	Ant. Pol. (H/V)	Ant. Height (m)	Angle (°)	Ant. Factor (dB/m)	Cable Loss	Emission Level(dBμV/m)	Limits (dBμV/m)	Margin (dB)
All emissions observed were 20 dB below the limit.									



Tested by: Ha-Ram, Lee / Assistant Manager

12. CONDUCTED EMISSION TEST

12.1 Operating environment

Temperature : 24 °C
Relative humidity : 48 % R.H.

12.2 Test set-up

The EUT was placed on a wooden table, 0.8 m height above the floor. Power was fed to the EUT through a 50 Ω / 50 μ H + 5 Ω Artificial Mains Network (AMN). The ground plane was electrically bonded to the reference ground system and all power lines were filtered from ambient.

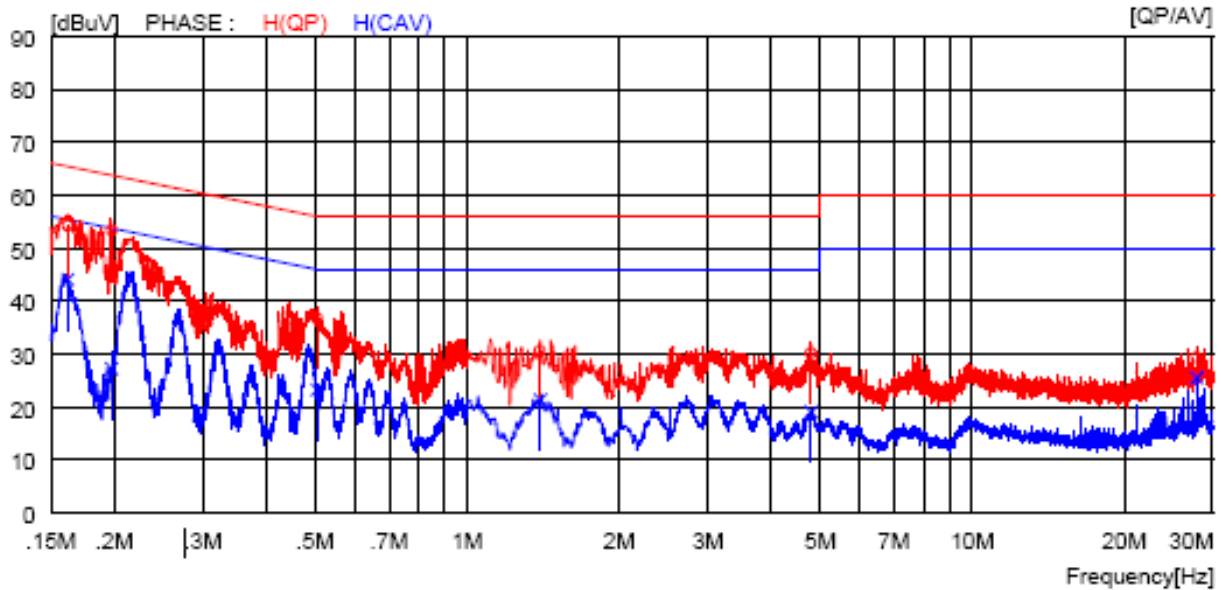
12.3 Test equipment used

	Model Number	Manufacturer	Description	Serial Number	Last Cal. (Interval)
■ -	ESCI	Rohde & Schwarz	Test Receiver	101012	Oct. 22, 2019 (1Y)
□ -	ESU	Rohde & Schwarz	Test Receiver	100261	Mar. 28, 2019 (1Y)
□ -	NSLK8128	Schwarzbeck	AMN	8128-216	Mar. 20, 2019 (1Y)
■ -	NSLK8126	Schwarzbeck	AMN	8126-404	Mar. 19, 2019 (1Y)
□ -	3825/2	EMCO	AMN	9109-1869	Mar. 19, 2019 (1Y)
■ -	3825/2	EMCO	AMN	9109-1867	Mar. 27, 2019 (1Y)

All test equipment used is calibrated on a regular basis.

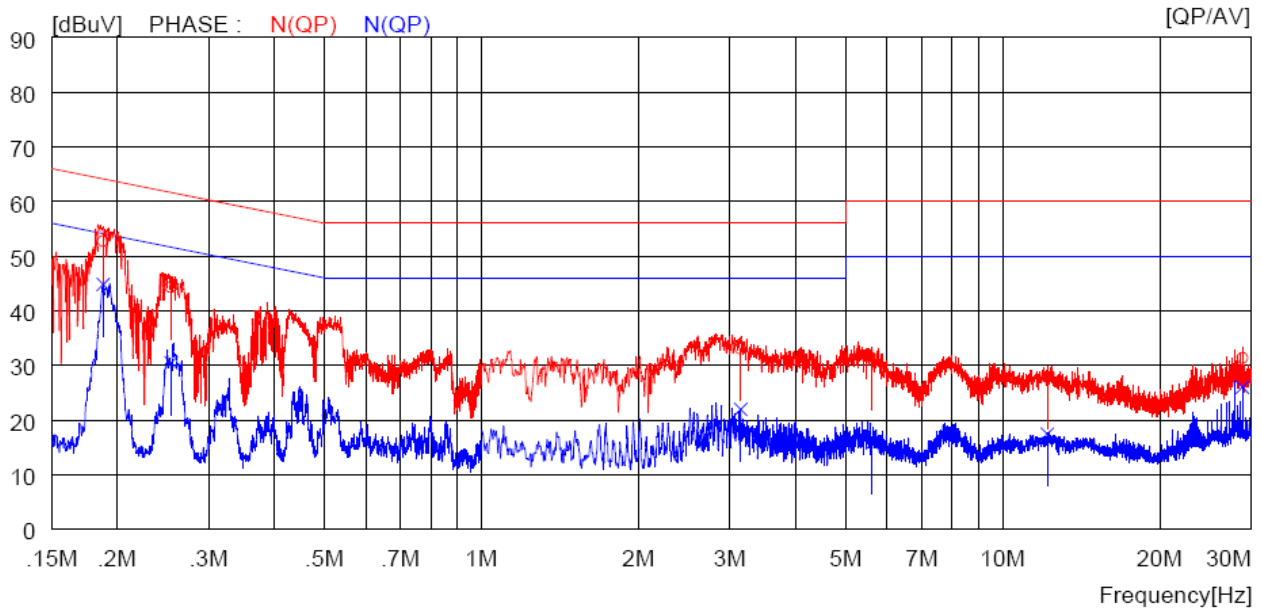
12.4 Test data

- . Test Date : December 09, 2019
- . Resolution bandwidth : 9 kHz
- . Frequency range : 0.15 MHz ~ 30 MHz
- . Tested Line : HOT LINE
- . Antenna 0, Antenna 1 and Multiple transmit tested, but the worst data were recorded.



NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16200	44.2	----	10.0	54.2	----	65.4	----	11.2	----	H (QP)
2	0.19800	43.3	----	10.0	53.3	----	63.7	----	10.4	----	H (QP)
3	0.50500	26.7	----	10.0	36.7	----	56.0	----	19.3	----	H (QP)
4	1.39600	20.5	----	10.1	30.6	----	56.0	----	25.4	----	H (QP)
5	4.80000	20.0	----	10.1	30.1	----	56.0	----	25.9	----	H (QP)
6	27.88000	18.5	----	10.8	29.3	----	60.0	----	30.7	----	H (QP)
7	0.16200	----	34.0	10.0	----	44.0	----	55.4	----	11.4	H (CAV)
8	0.19800	----	17.2	10.0	----	27.2	----	53.7	----	26.5	H (CAV)
9	0.50500	----	13.2	10.0	----	23.2	----	46.0	----	22.8	H (CAV)
10	1.39600	----	11.2	10.1	----	21.3	----	46.0	----	24.7	H (CAV)
11	4.80000	----	8.9	10.1	----	19.0	----	46.0	----	27.0	H (CAV)
12	27.88000	----	14.7	10.8	----	25.5	----	50.0	----	24.5	H (CAV)

-. Tested Line : NEUTRAL LINE



NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.18800	42.8	----	10.0	52.8	----	64.1	----	11.3	----	N (QP)
2	0.25400	34.3	----	10.0	44.3	----	61.6	----	17.3	----	N (QP)
3	3.14400	23.0	----	10.1	33.1	----	56.0	----	22.9	----	N (QP)
4	5.62000	21.2	----	10.2	31.4	----	60.0	----	28.6	----	N (QP)
5	12.19000	17.4	----	10.5	27.9	----	60.0	----	32.1	----	N (QP)
6	28.86000	20.6	----	10.8	31.4	----	60.0	----	28.6	----	N (QP)
7	0.18800	----	34.8	10.0	----	44.8	----	54.1	----	9.3	N (CAV)
8	0.25400	----	20.5	10.0	----	30.5	----	51.6	----	21.1	N (CAV)
9	3.14400	----	11.9	10.1	----	22.0	----	46.0	----	24.0	N (CAV)
10	5.62000	----	5.7	10.2	----	15.9	----	50.0	----	34.1	N (CAV)
11	12.19000	----	7.0	10.5	----	17.5	----	50.0	----	32.5	N (CAV)
12	28.86000	----	15.3	10.8	----	26.1	----	50.0	----	23.9	N (CAV)

Remark: Margin (dB) = Limit – Level (Result)

The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.



Tested by: Ha-Ram, Lee / Assistant Manager