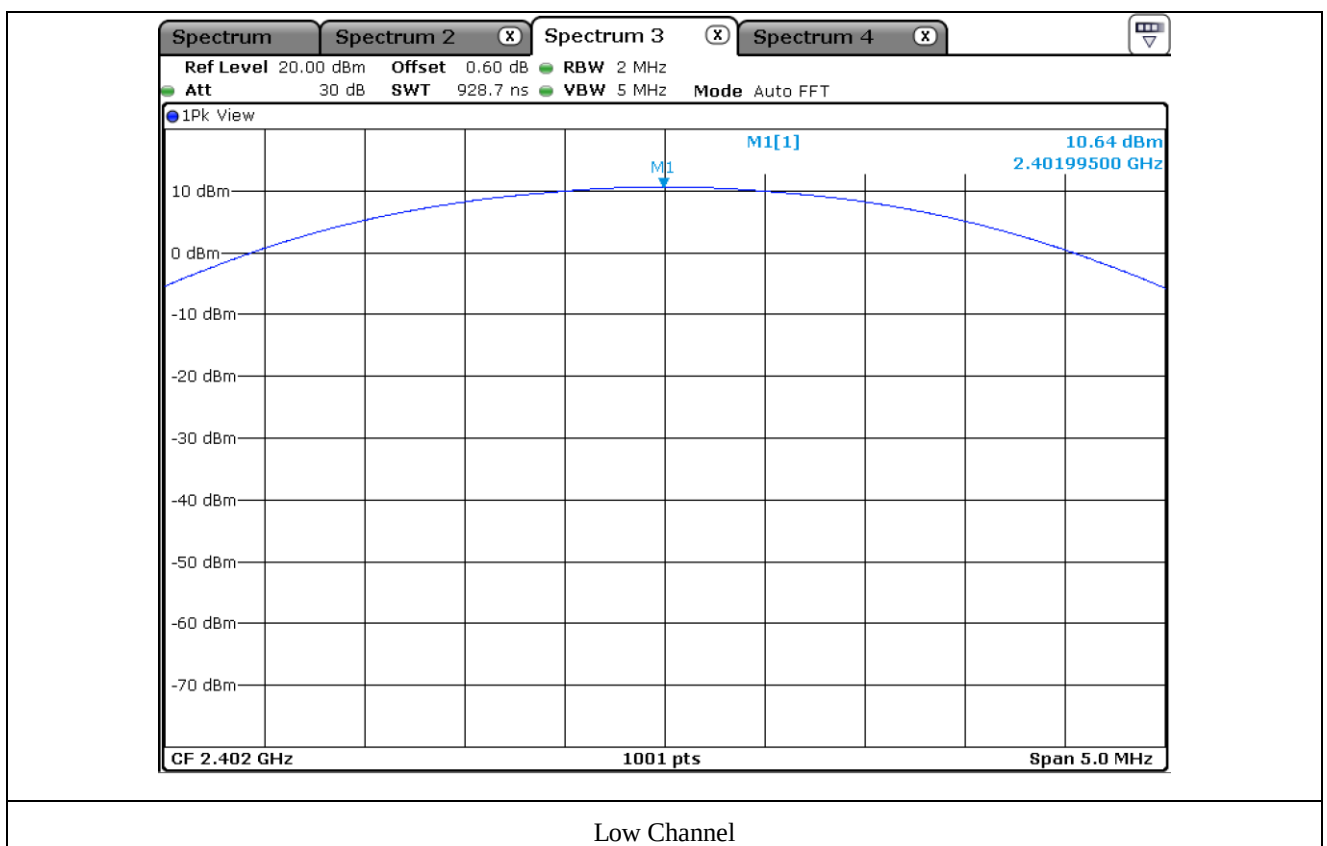


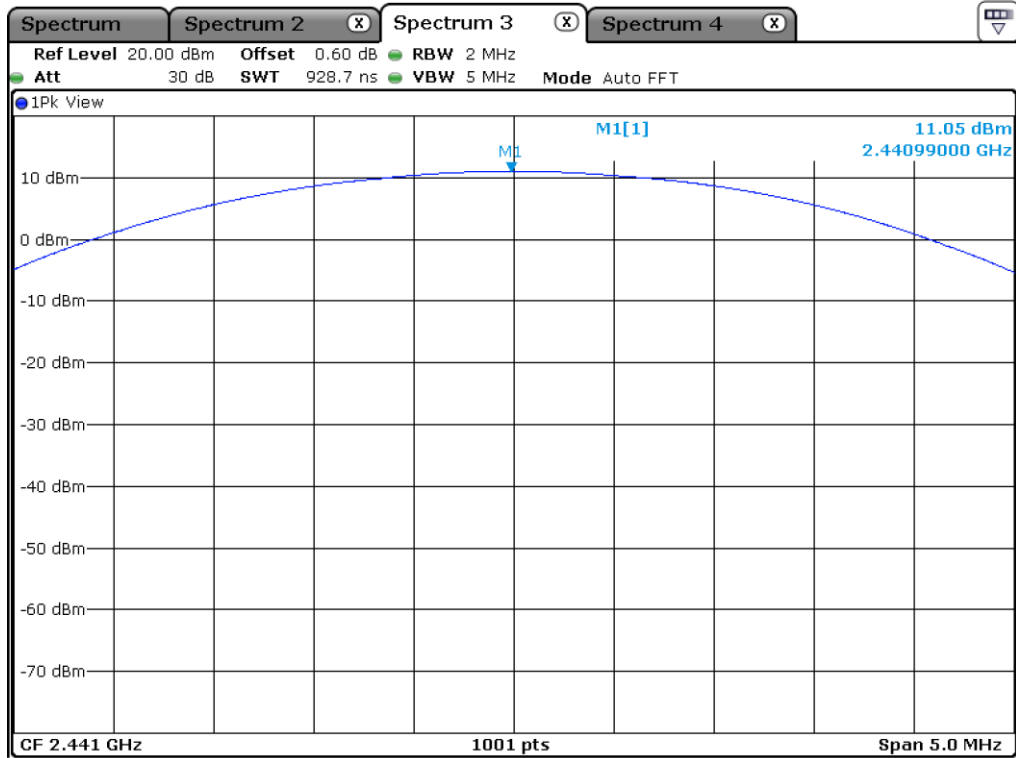
11.6 Test data for 3 Mbps

-. Test Result : Pass

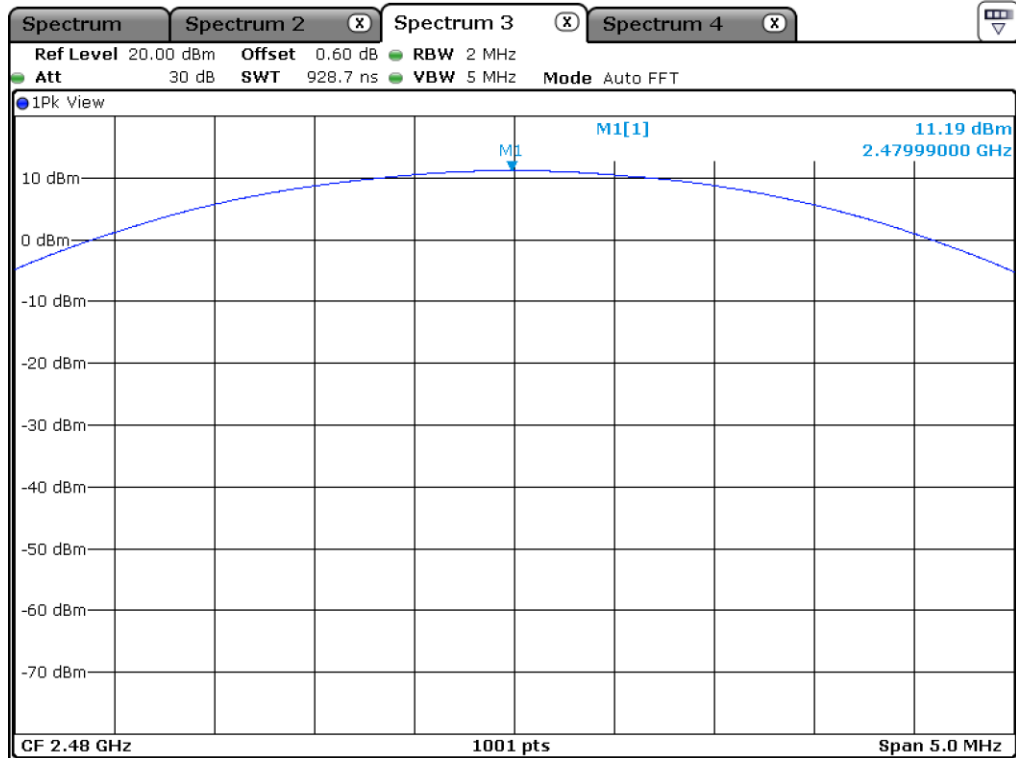
CHANNEL	FREQUENCY (MHz)	MEASURED VLAUE (dBm)	LIMIT (dBm)	MARGIN (dB)
LOW	2 402.00	10.64	21.00	10.36
MIDDLE	2 441.00	11.05	21.00	9.95
HIGH	2 480.00	11.19	21.00	9.81

Remark. Margin = Limit – Measured Value (=Receiver Reading + Cable Loss)





Middle Channel



High Channel

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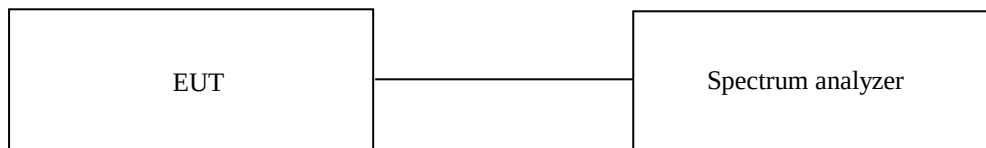
12. 100 kHz BANDWIDTH OUTSIDE THE FREQUENCY BAND

12.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % R.H.

12.2 Test set-up for conducted measurement

The antenna output of the EUT was connected to the spectrum analyzer. The resolution and video bandwidth is set to 100 kHz, and peak detection was used.



12.3 Test set-up for radiated measurement

The radiated emissions measurements were performed on the 3 m semi anechoic chamber. The EUT was placed on turntable approximately 1.5 m above the ground plane.

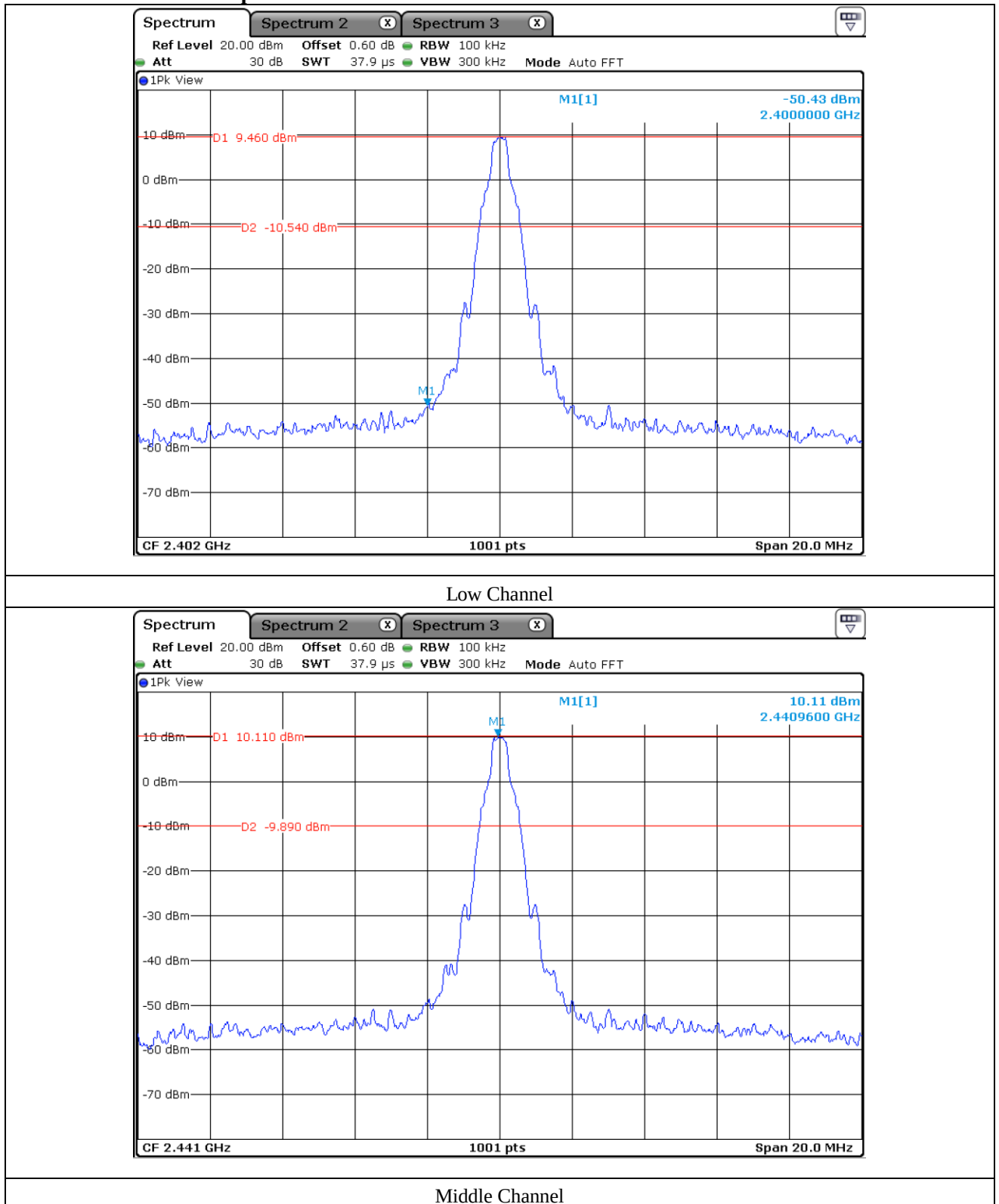
The frequency spectrum from 30 MHz to 26.5 GHz was scanned and maximum emission levels at each frequency recorded. The system was rotated 360°, and the antenna was varied in the height between 1.0 m and 4.0 m in order to determine the maximum emission levels. This procedure was performed for horizontal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

12.4 Test Date

October 07, 2021 ~ October 20, 2021

12.5 Test data for conducted emission

12.5.1 Test data for 1 Mbps

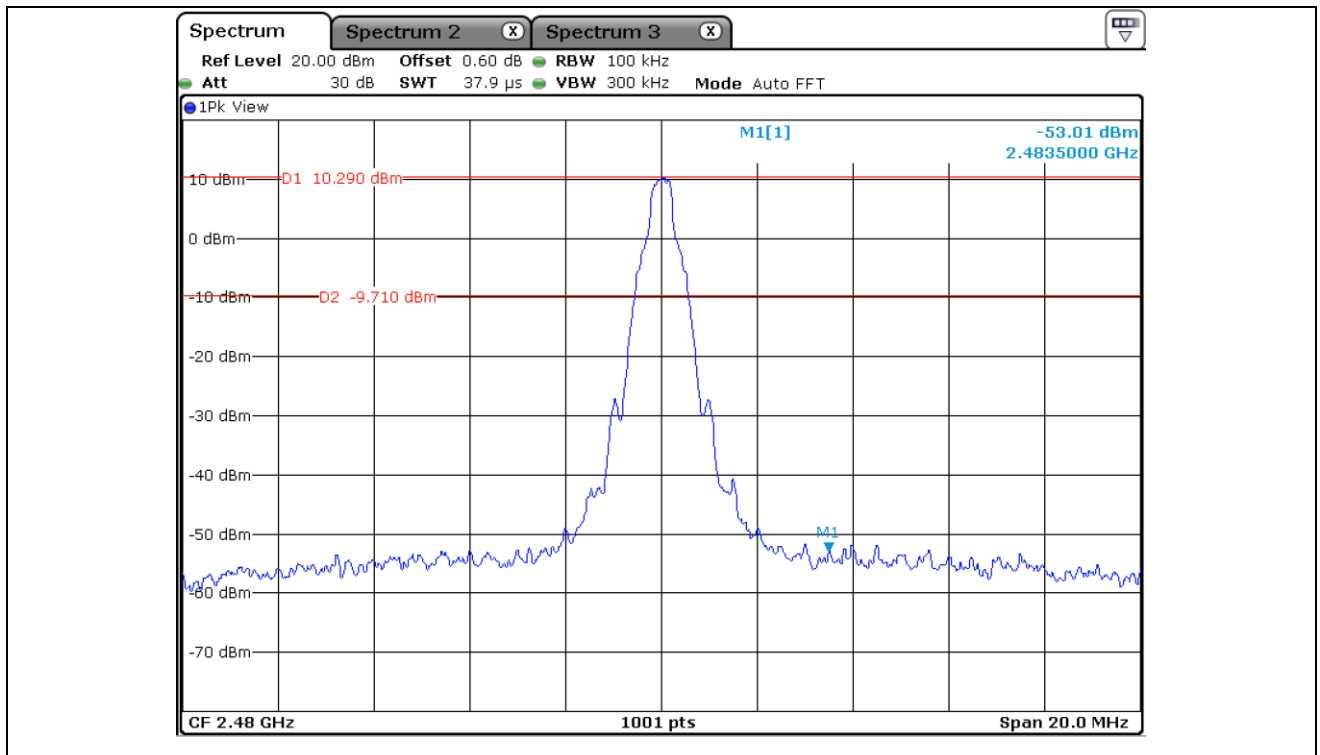


This Report is not correlated with the authentication of KOLAS

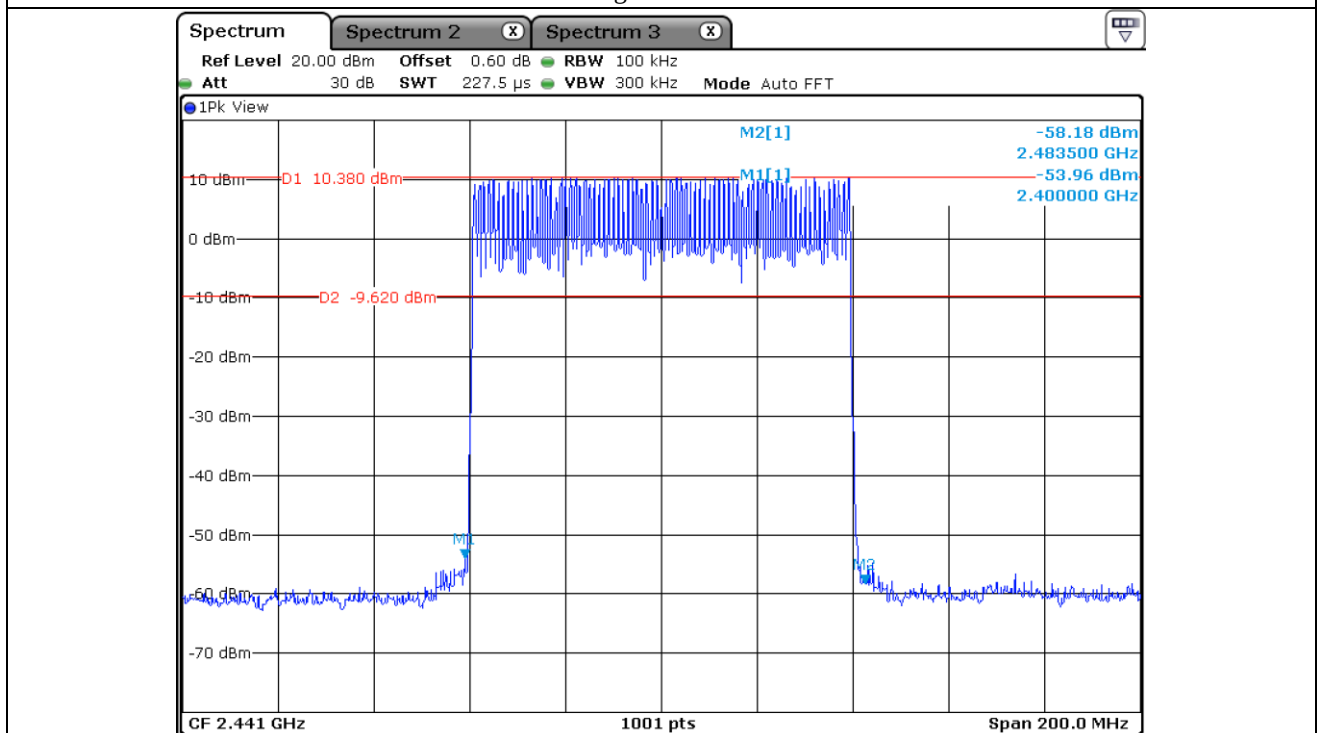
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High Channel



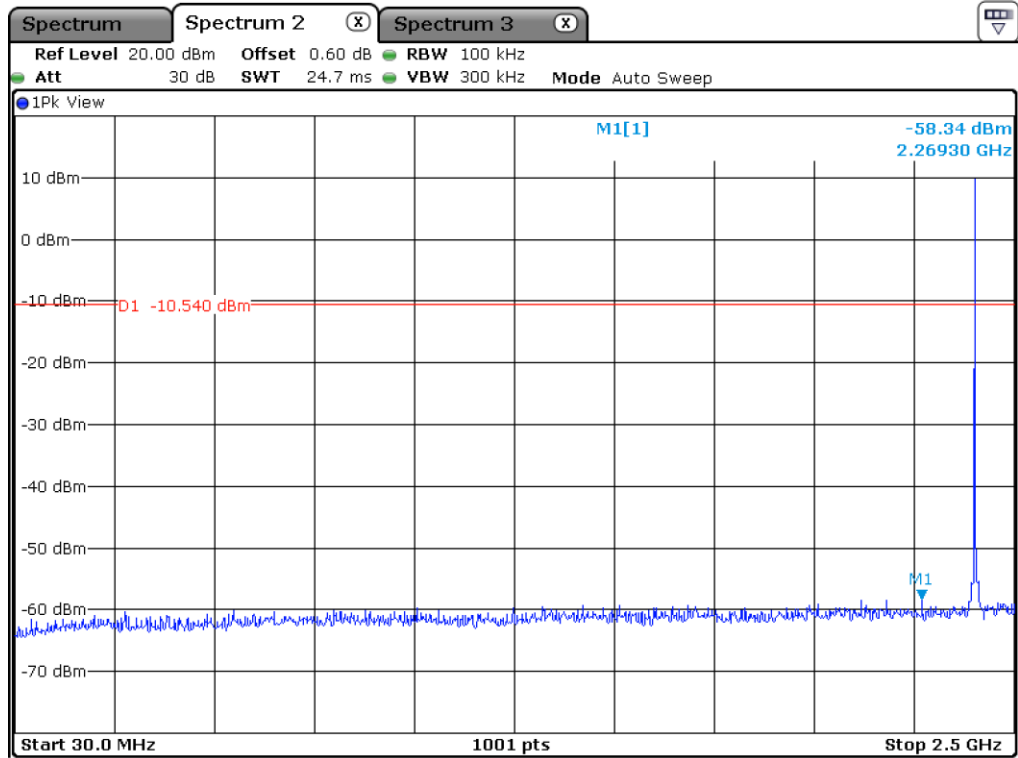
Hopping Mode

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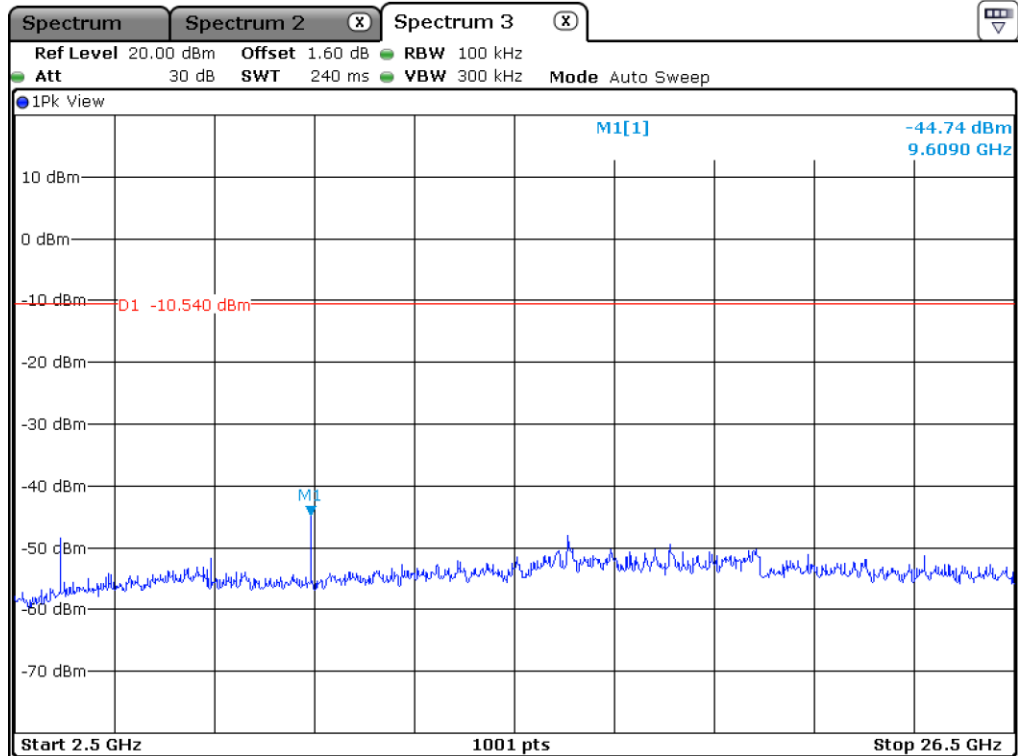
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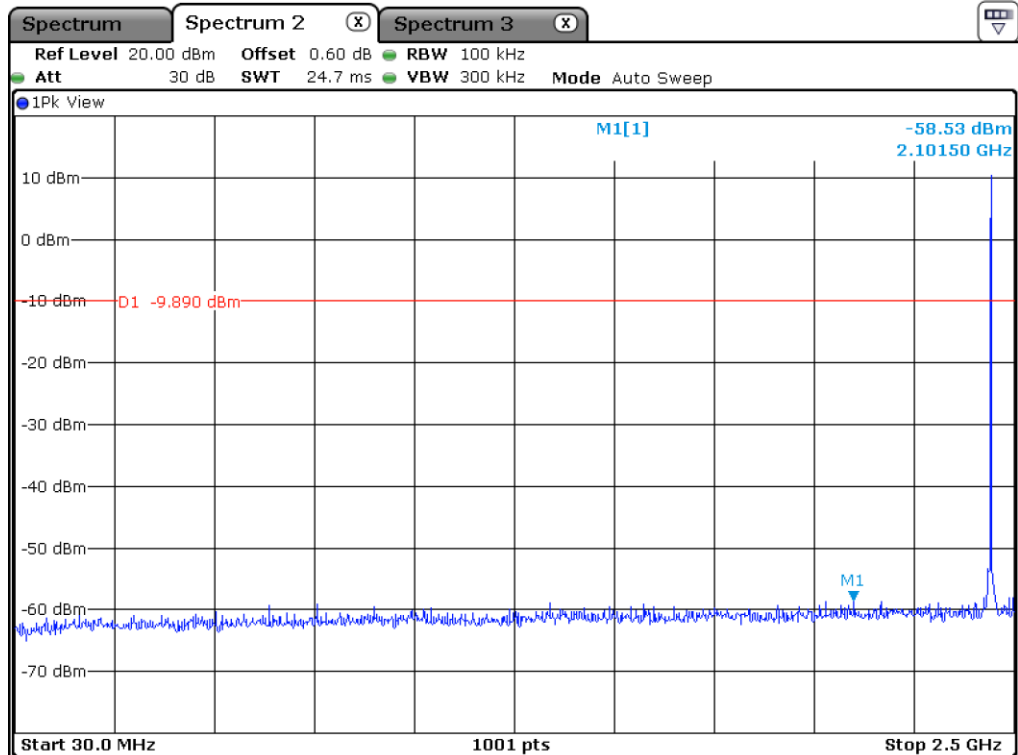
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



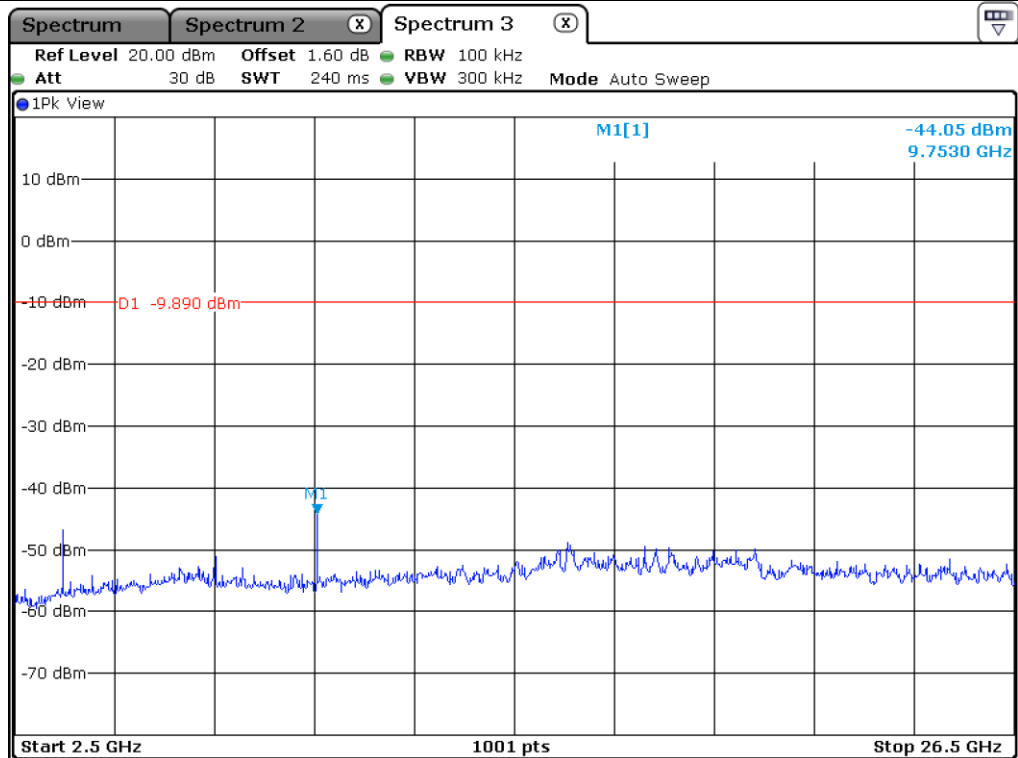
Low Channel



Low Channel



Middle Channel



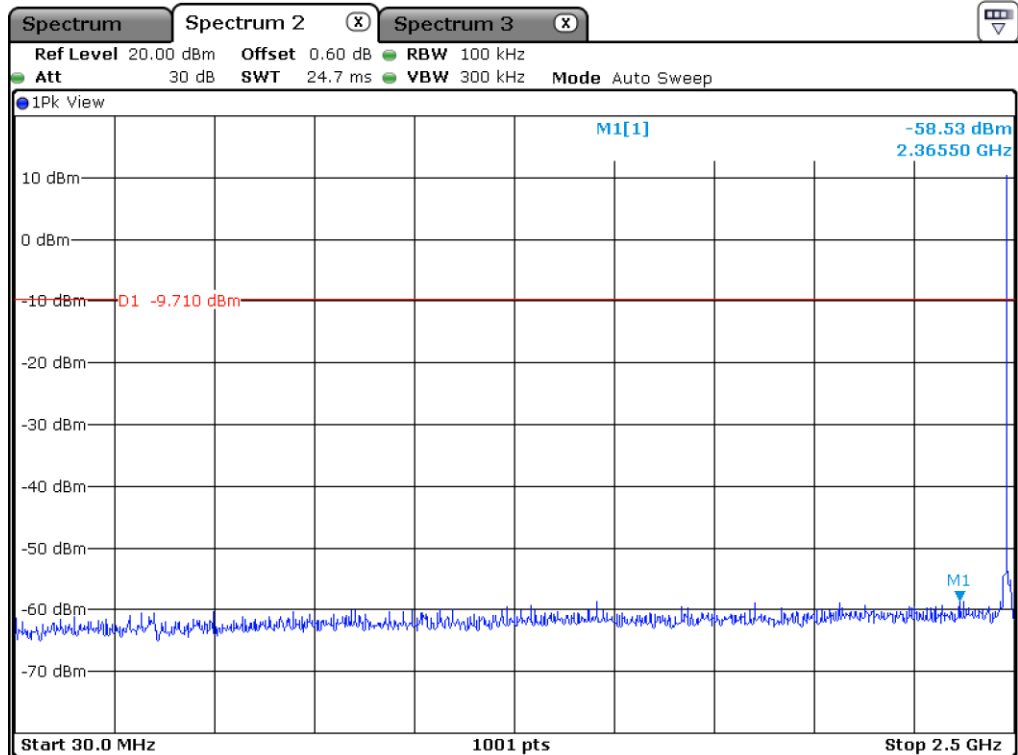
Middle Channel

This Report is not correlated with the authentication of KOLAS

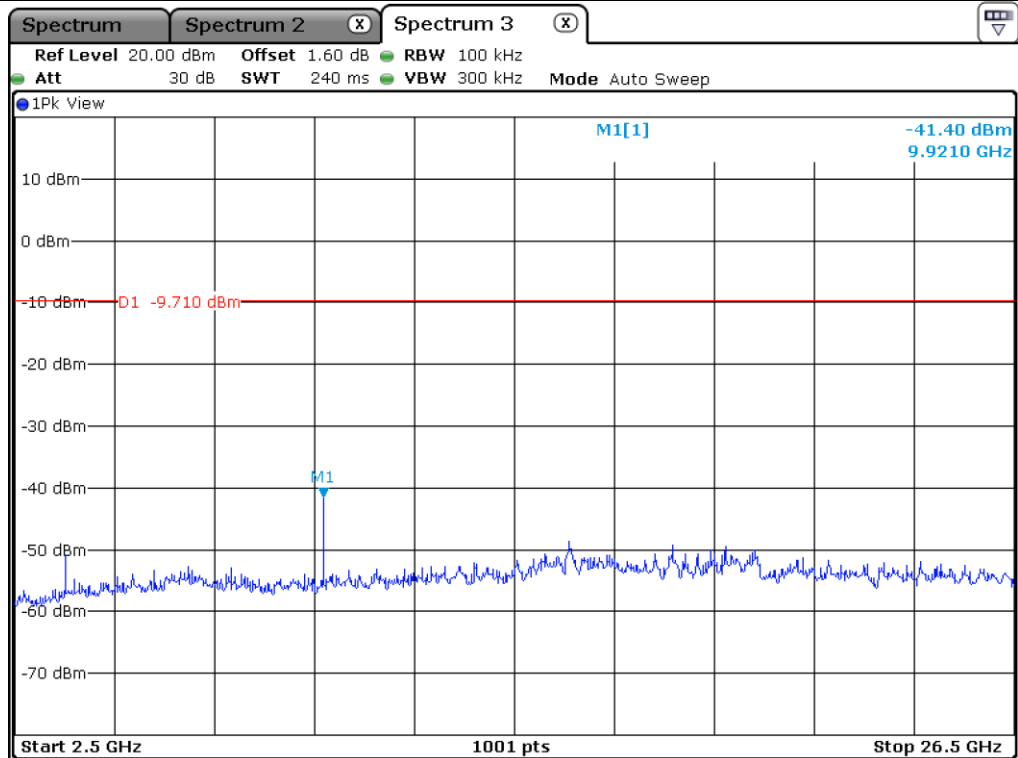
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High Channel



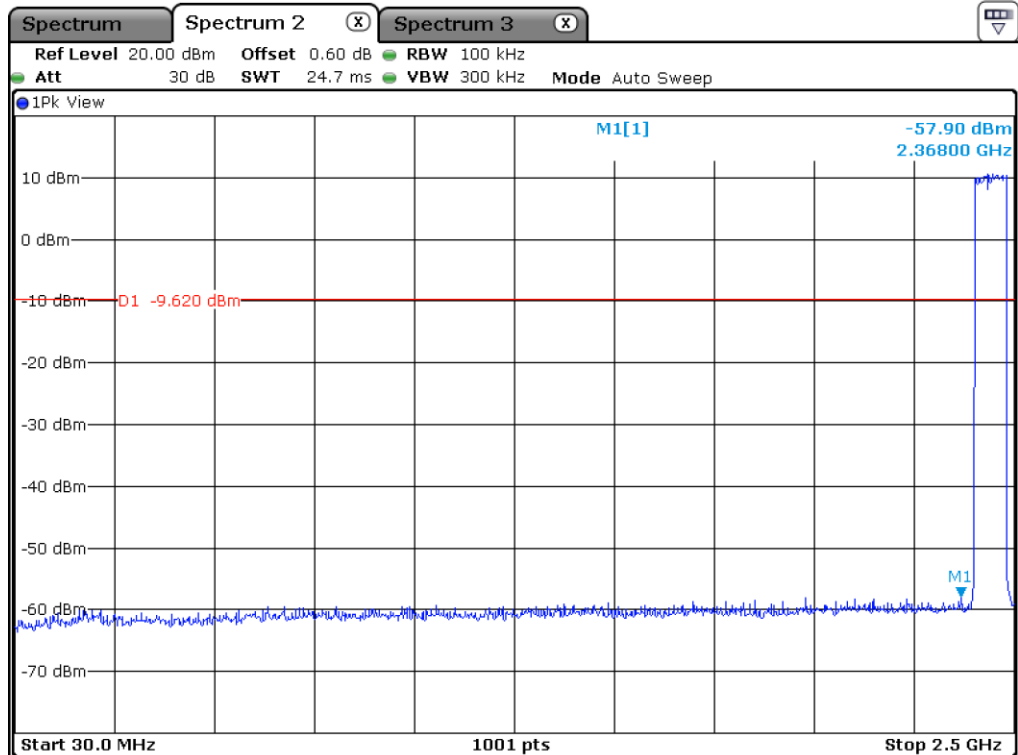
High Channel

This Report is not correlated with the authentication of KOLAS

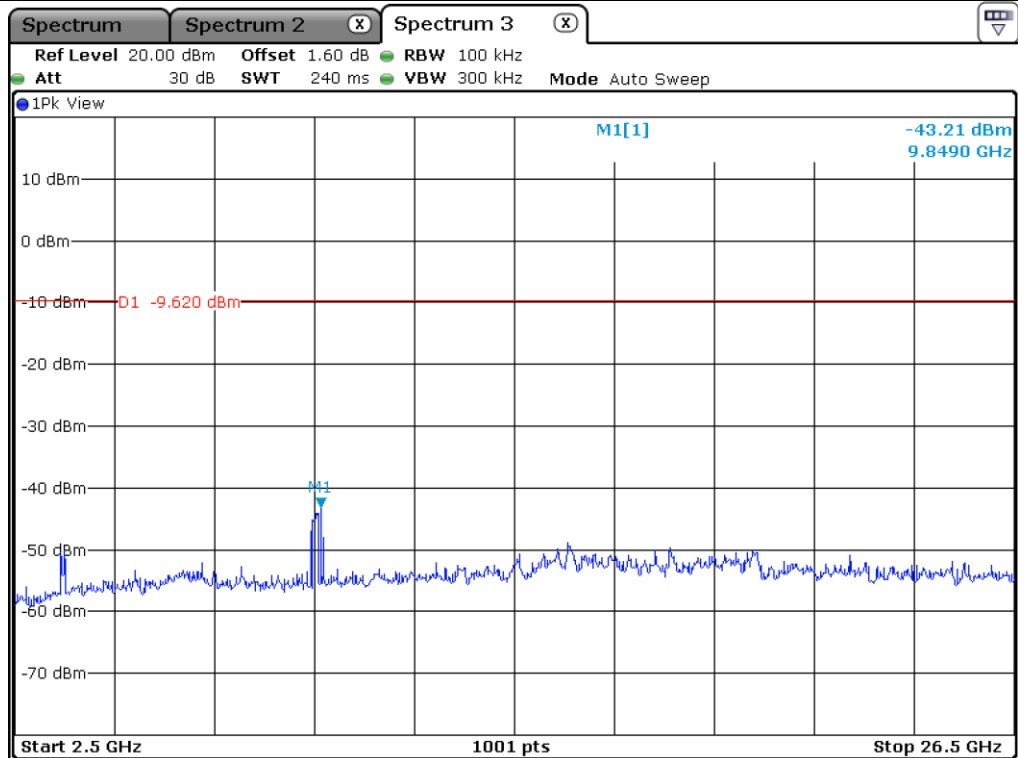
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Hopping Mode



Hopping Mode

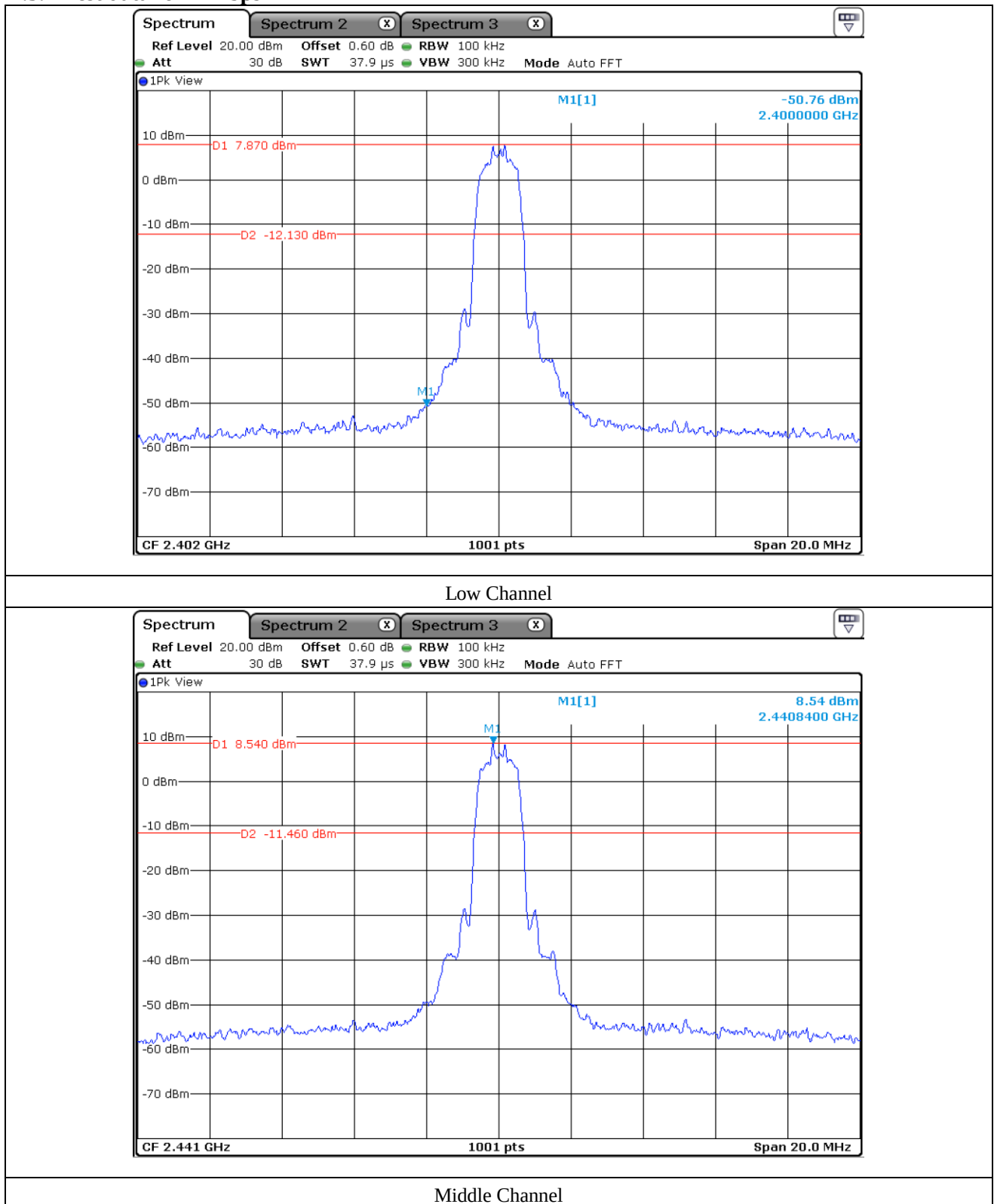
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12.5.2 Test data for 2 Mbps

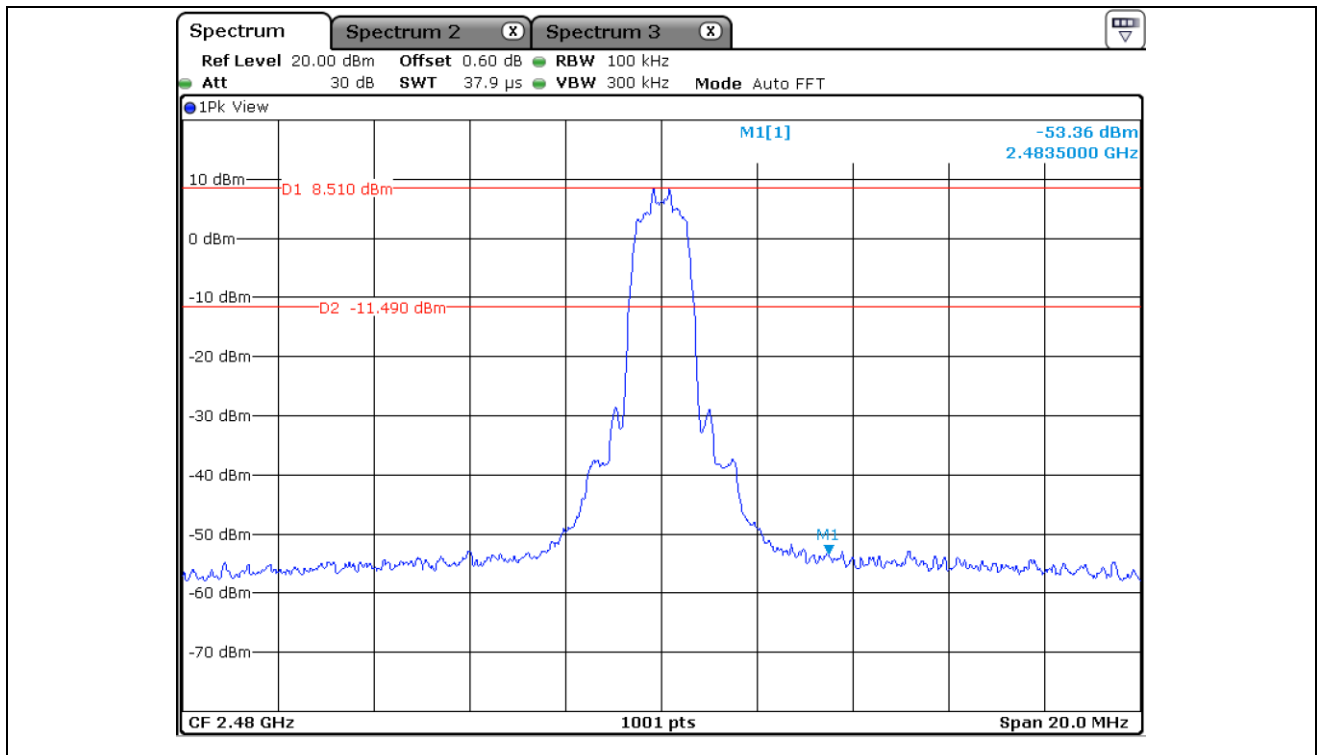


This Report is not correlated with the authentication of KOLAS

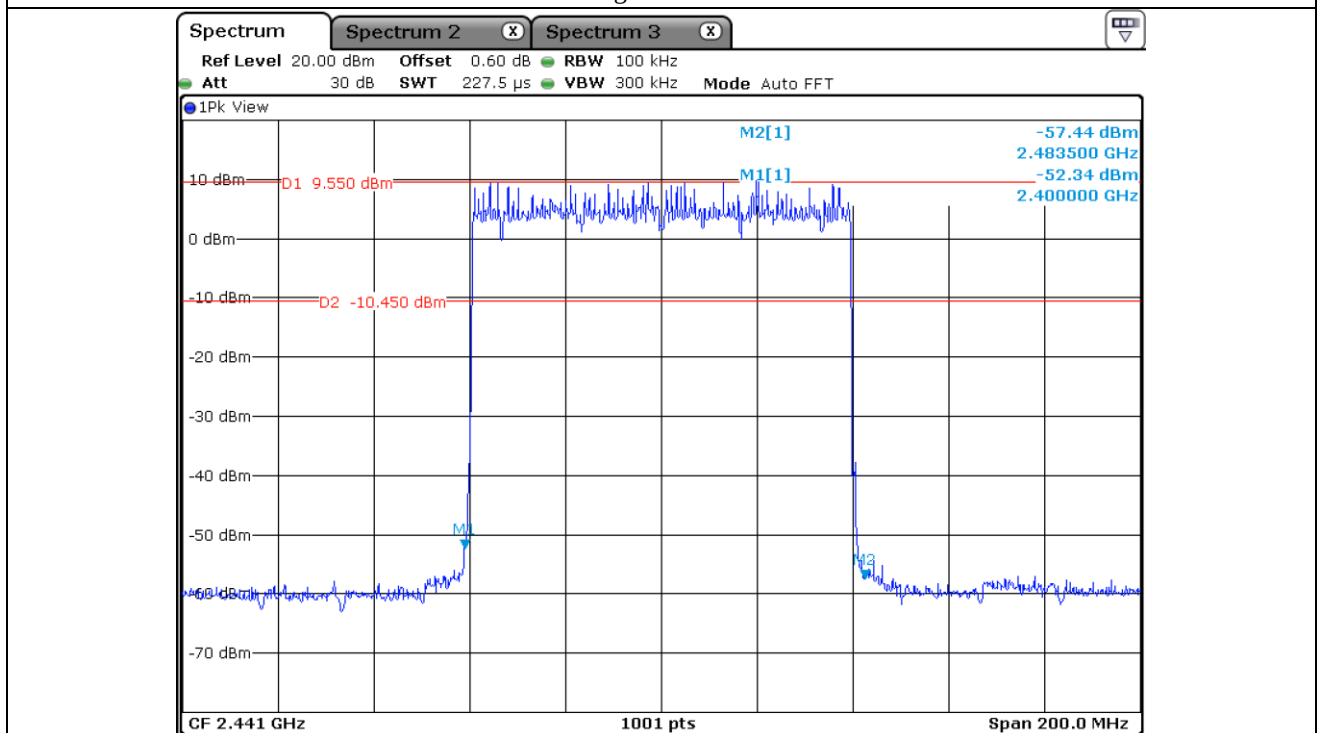
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High Channel



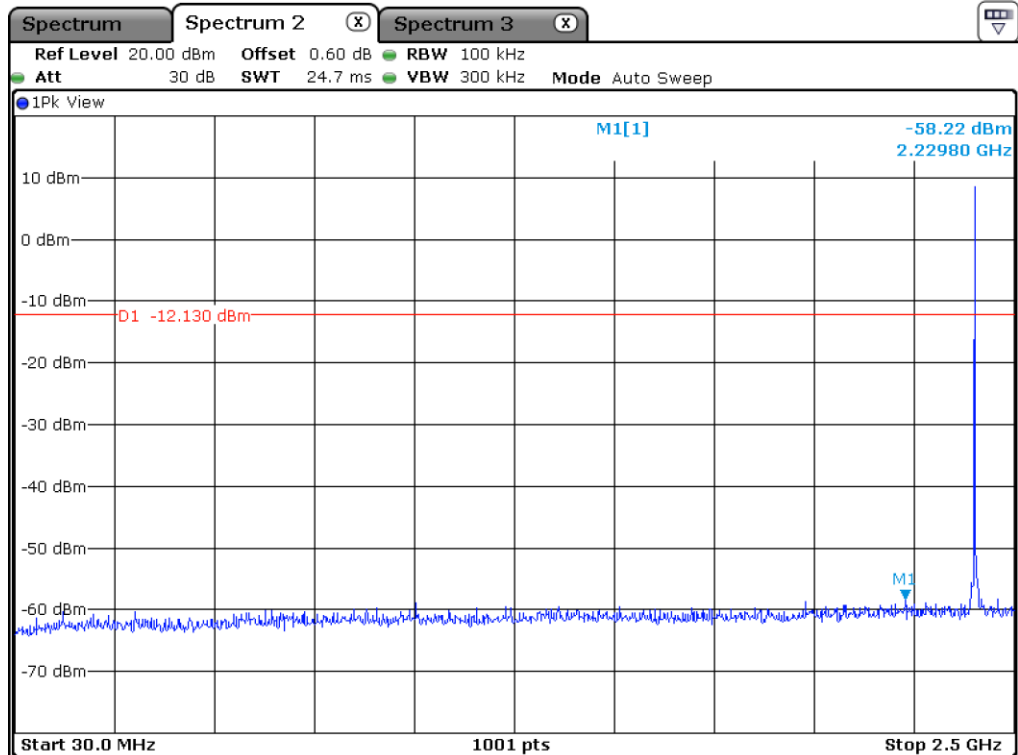
Hopping Mode

This Report is not correlated with the authentication of KOLAS

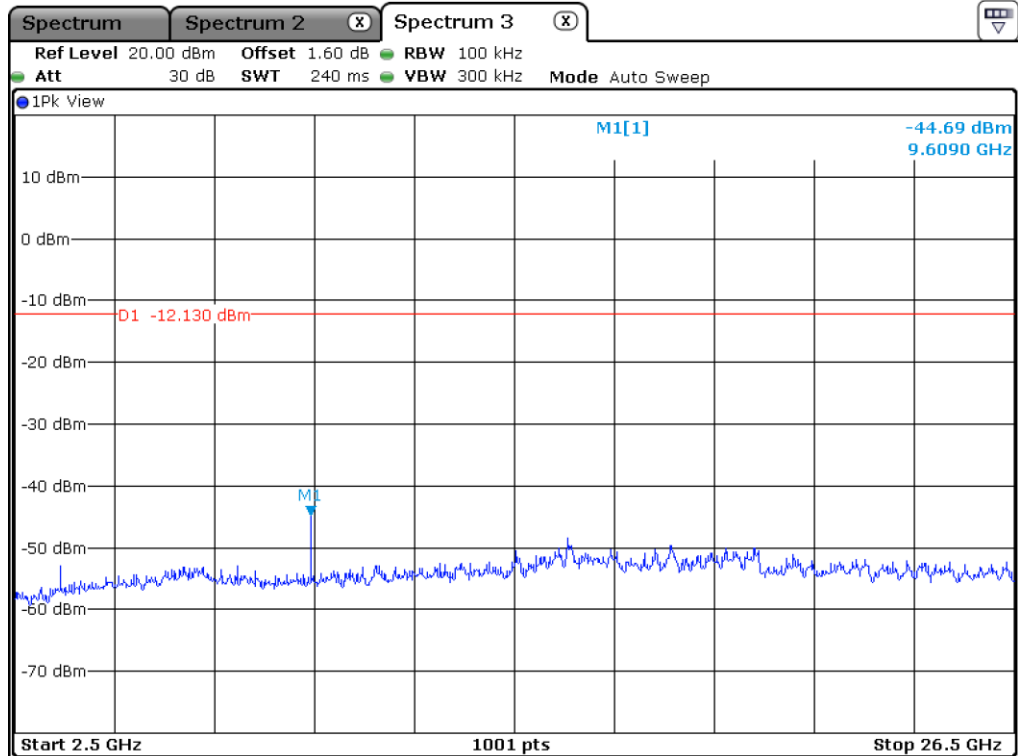
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Low Channel



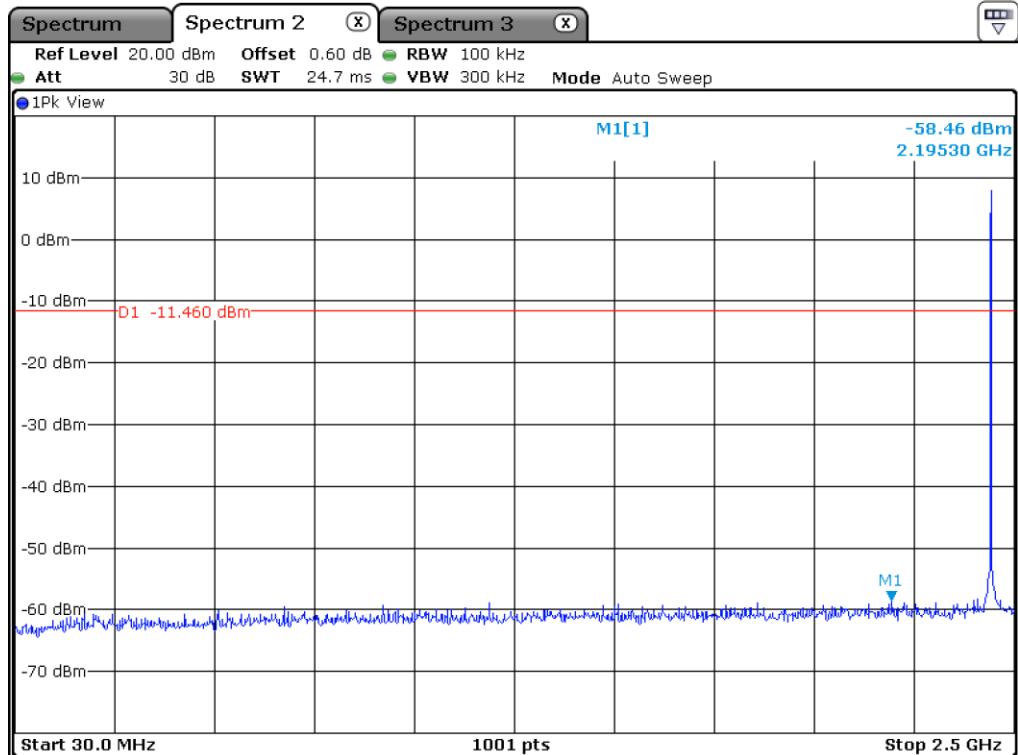
Low Channel

This Report is not correlated with the authentication of KOLAS

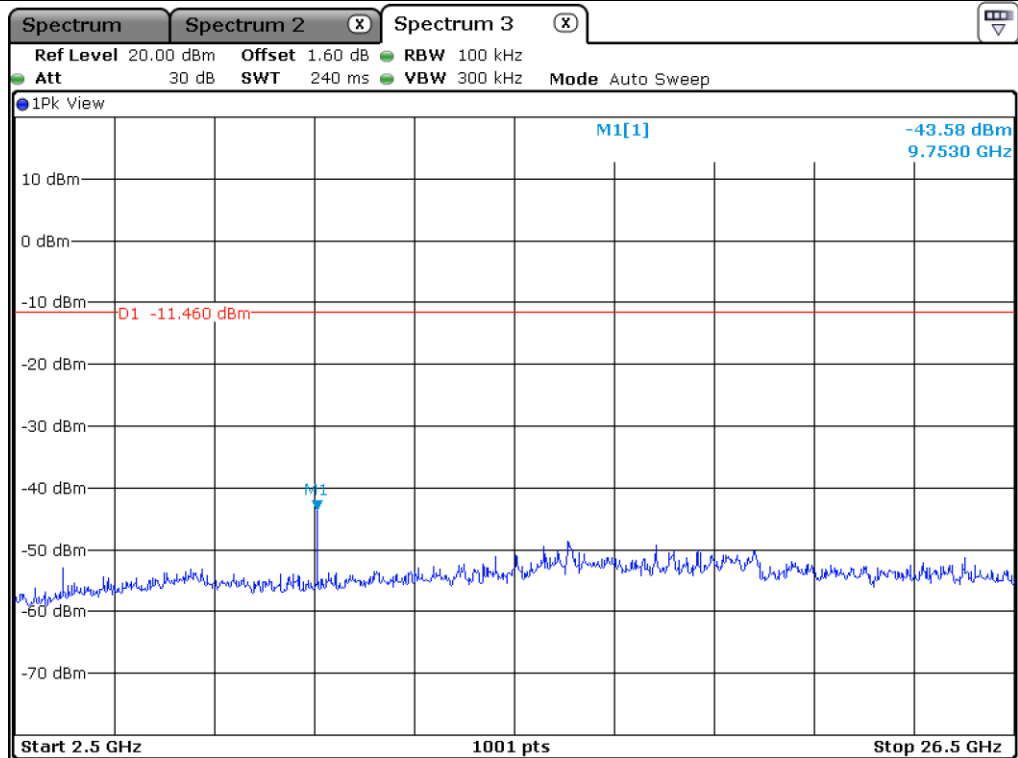
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OTC-TRF-RF-001(0)

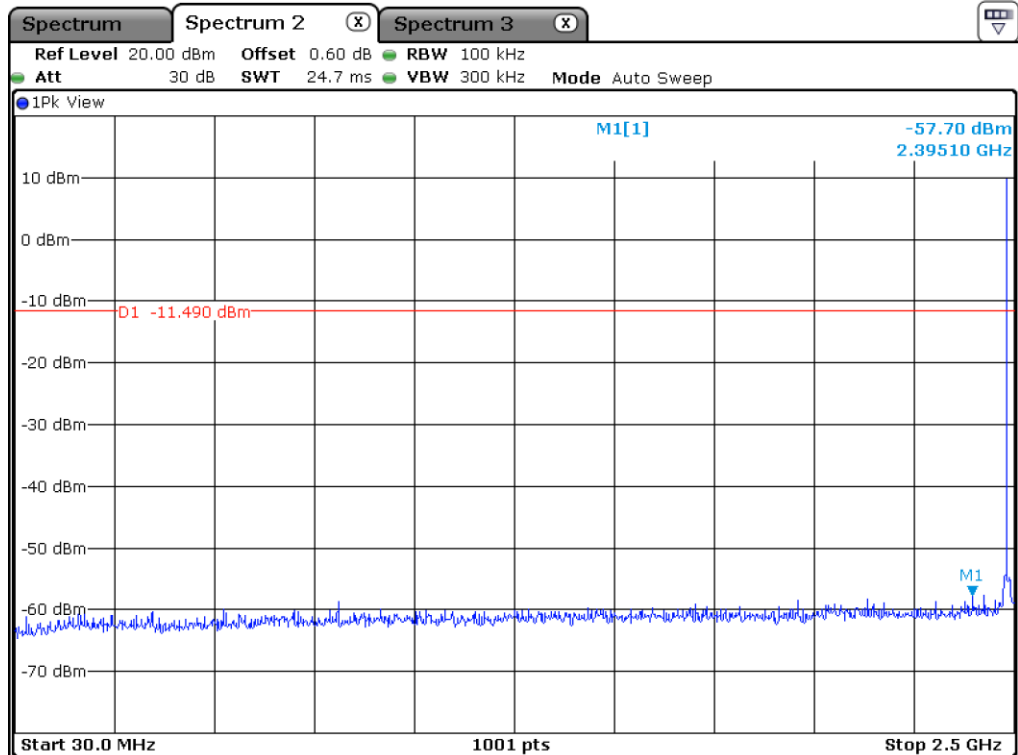
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



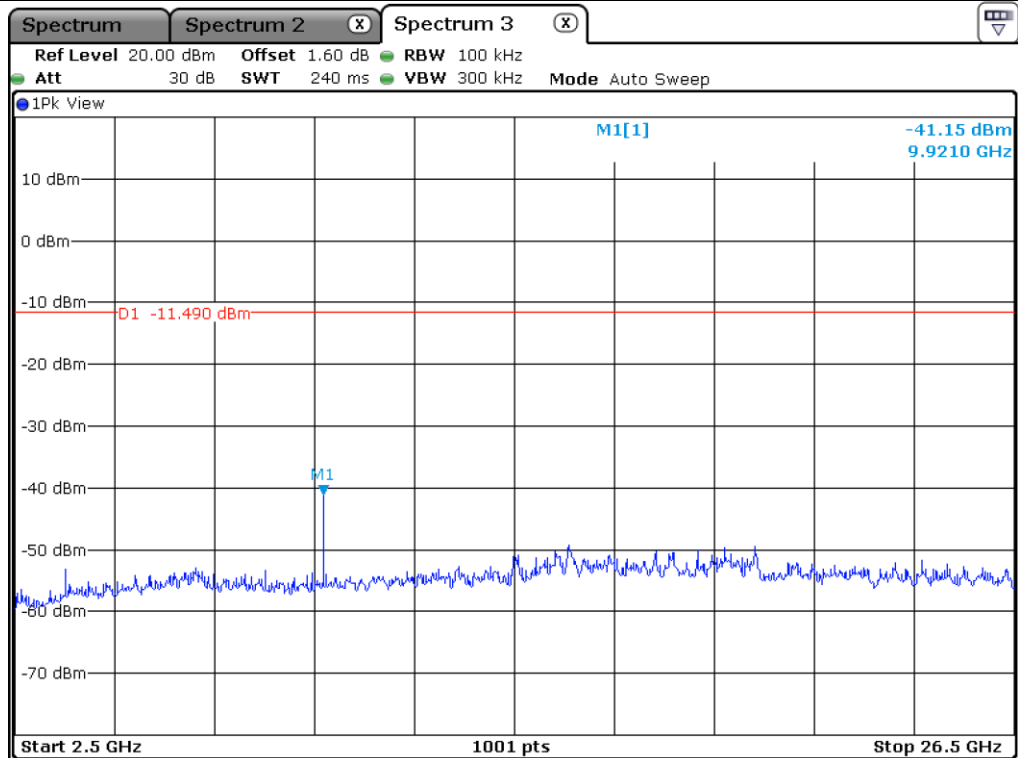
Middle Channel



Middle Channel



High Channel



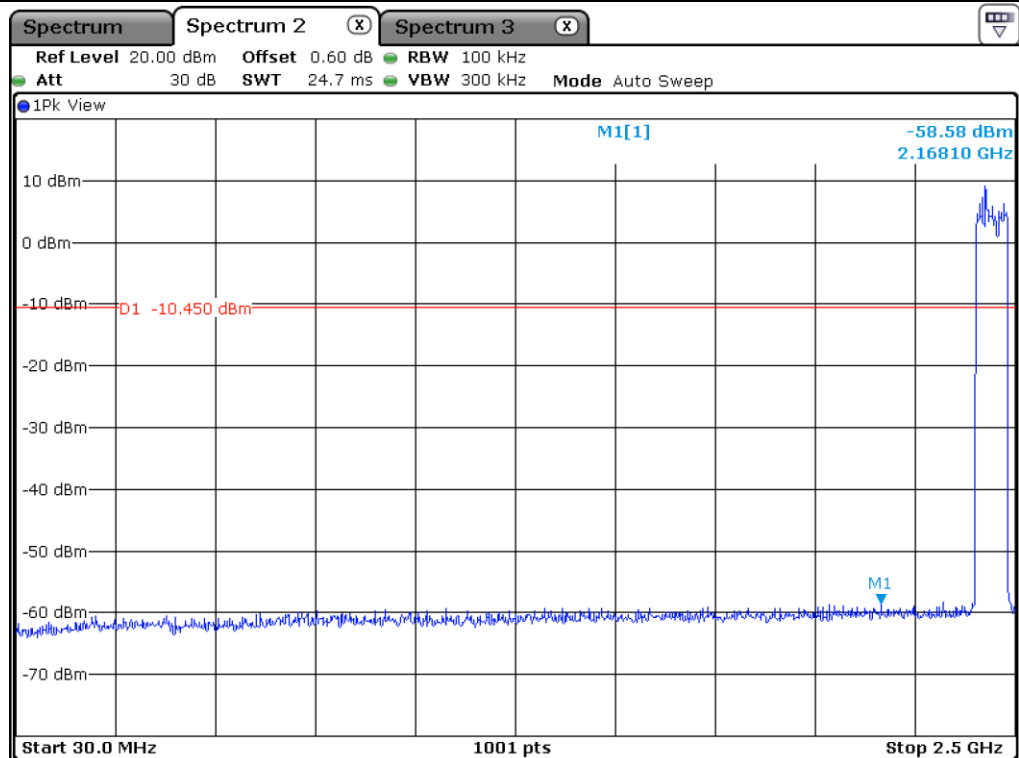
High Channel

This Report is not correlated with the authentication of KOLAS

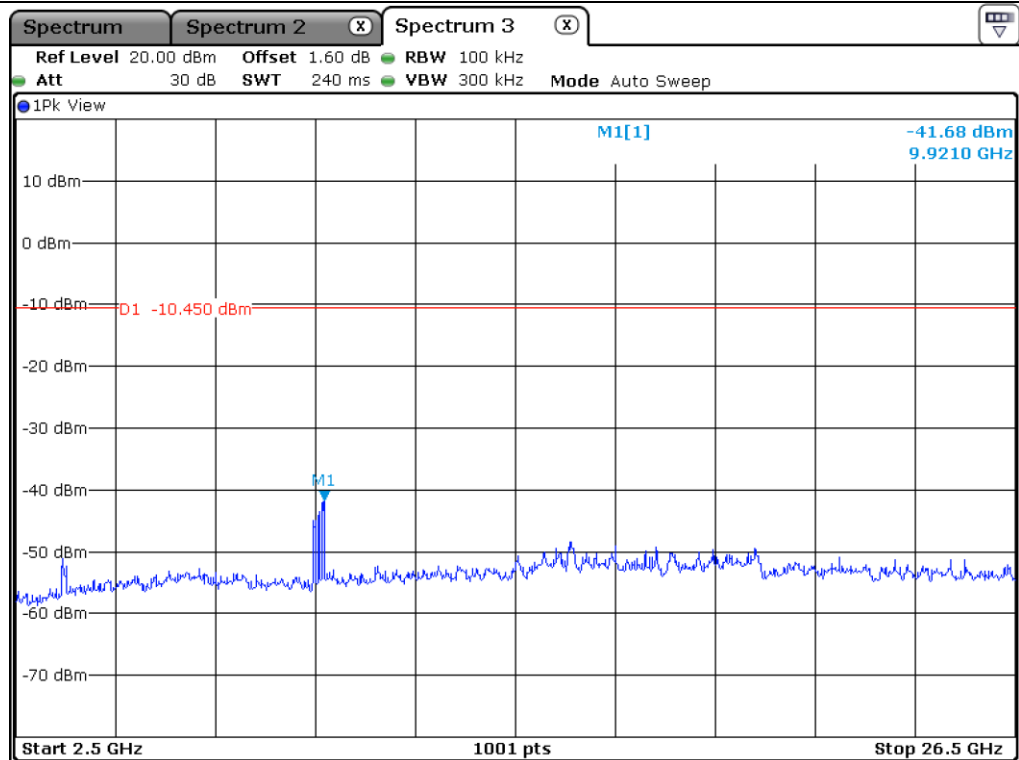
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Hopping Mode



Hopping Mode

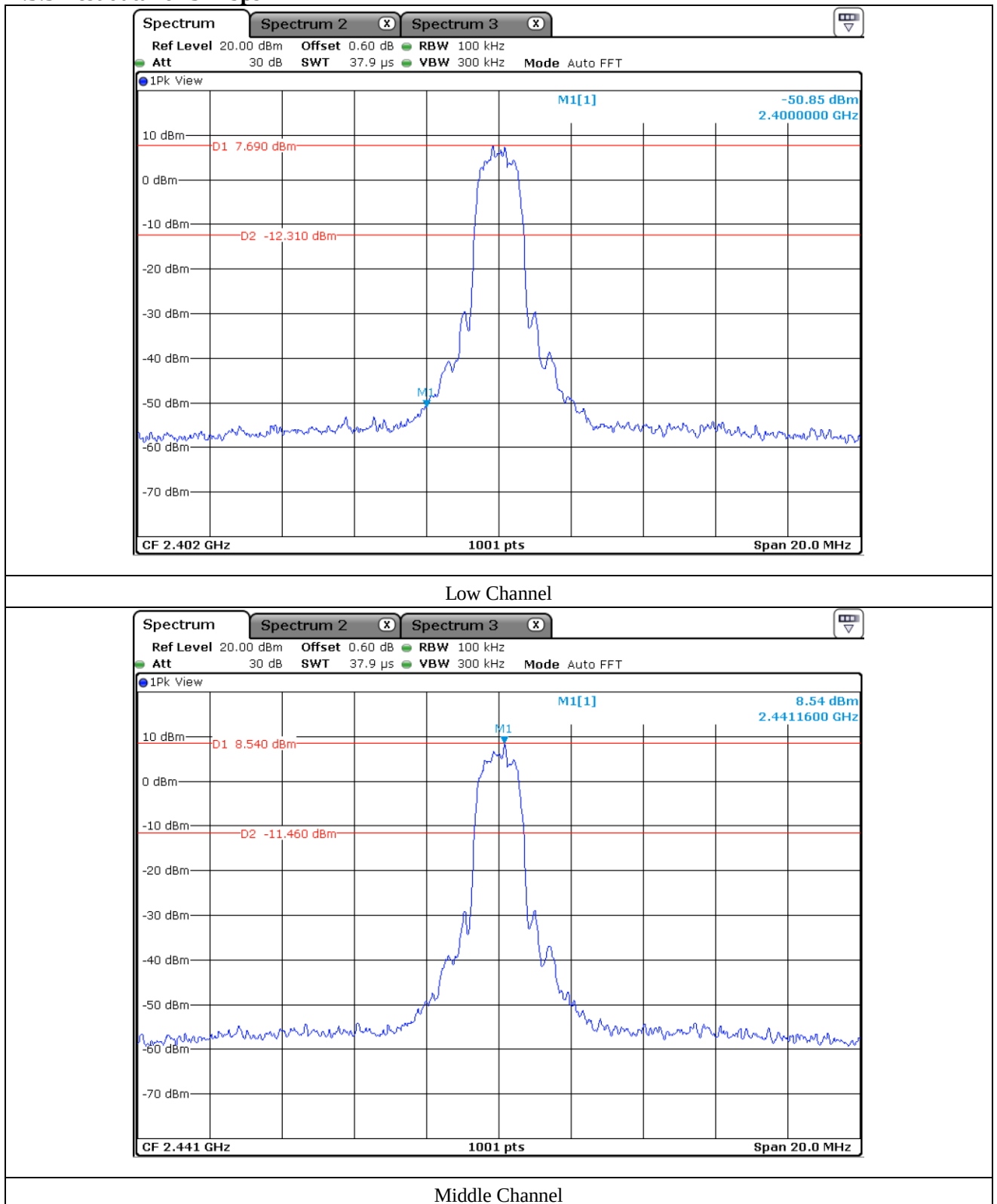
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12.5.3 Test data for 3 Mbps

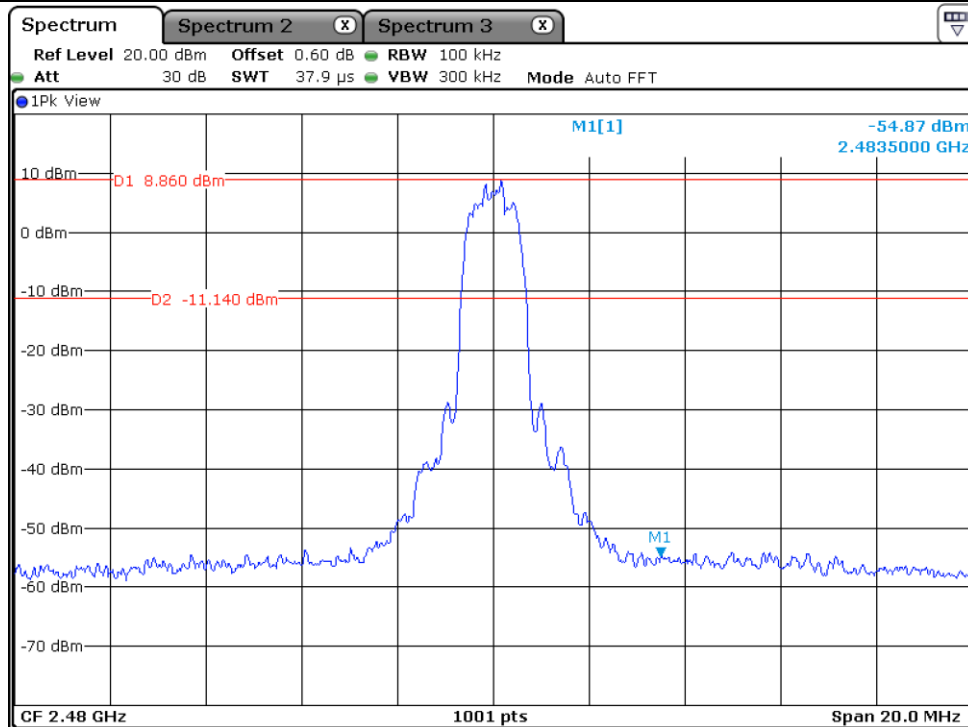


This Report is not correlated with the authentication of KOLAS

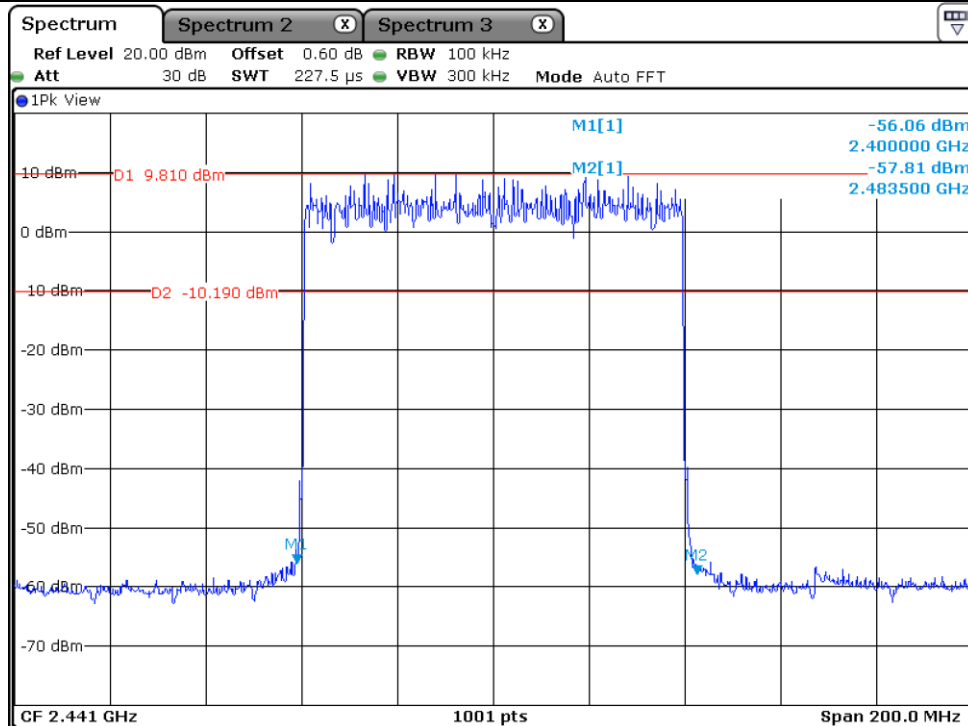
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High Channel



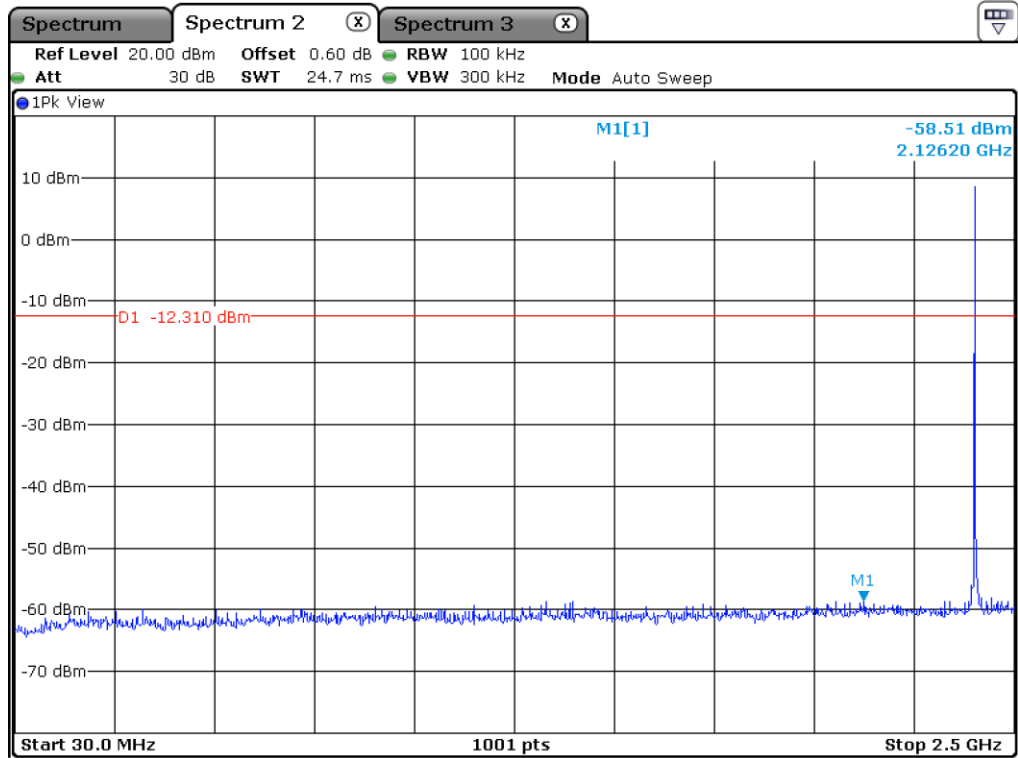
Hopping Mode

This Report is not correlated with the authentication of KOLAS

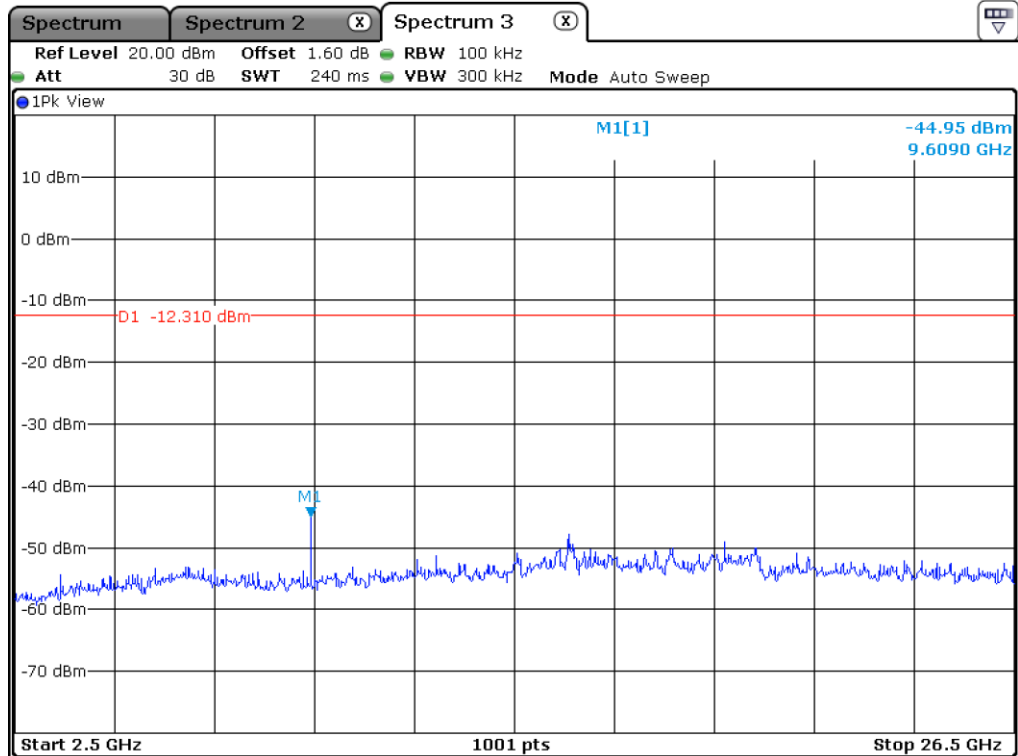
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OTC-TRF-RF-001(0)

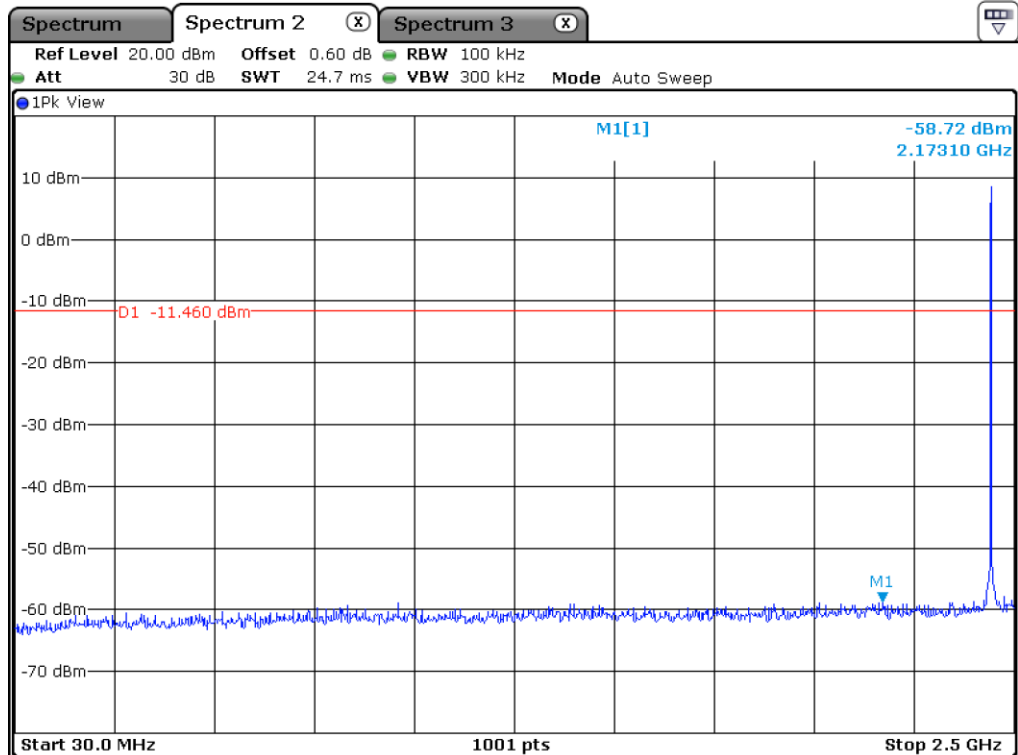
ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)



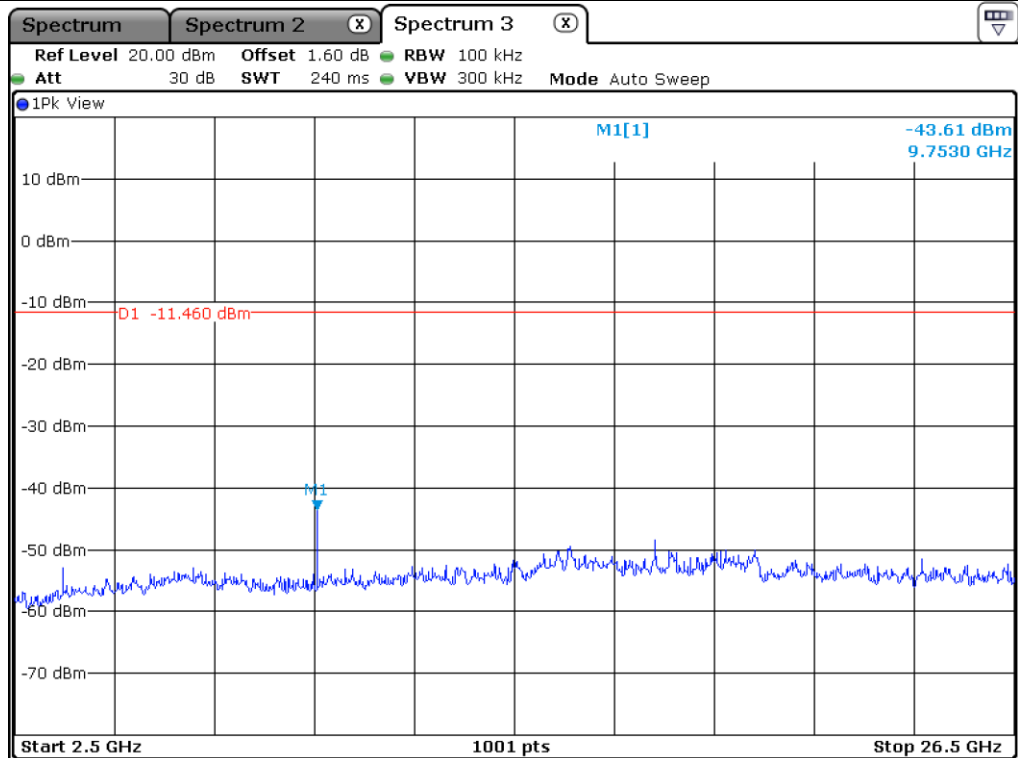
Low Channel



Low Channel



Middle Channel



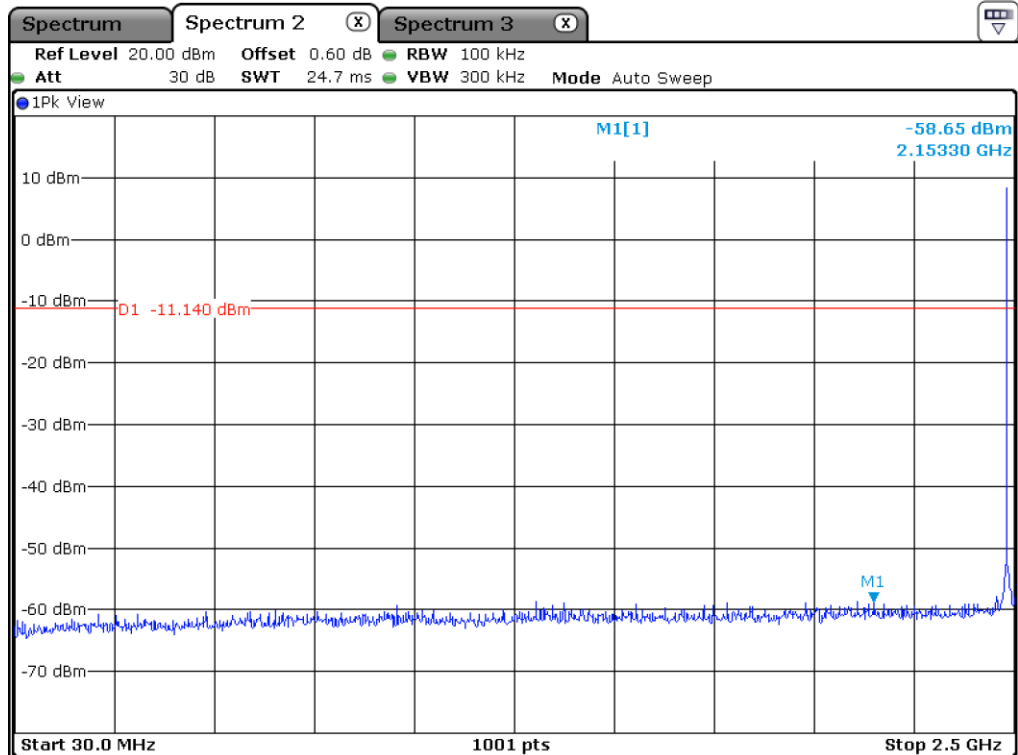
Middle Channel

This Report is not correlated with the authentication of KOLAS

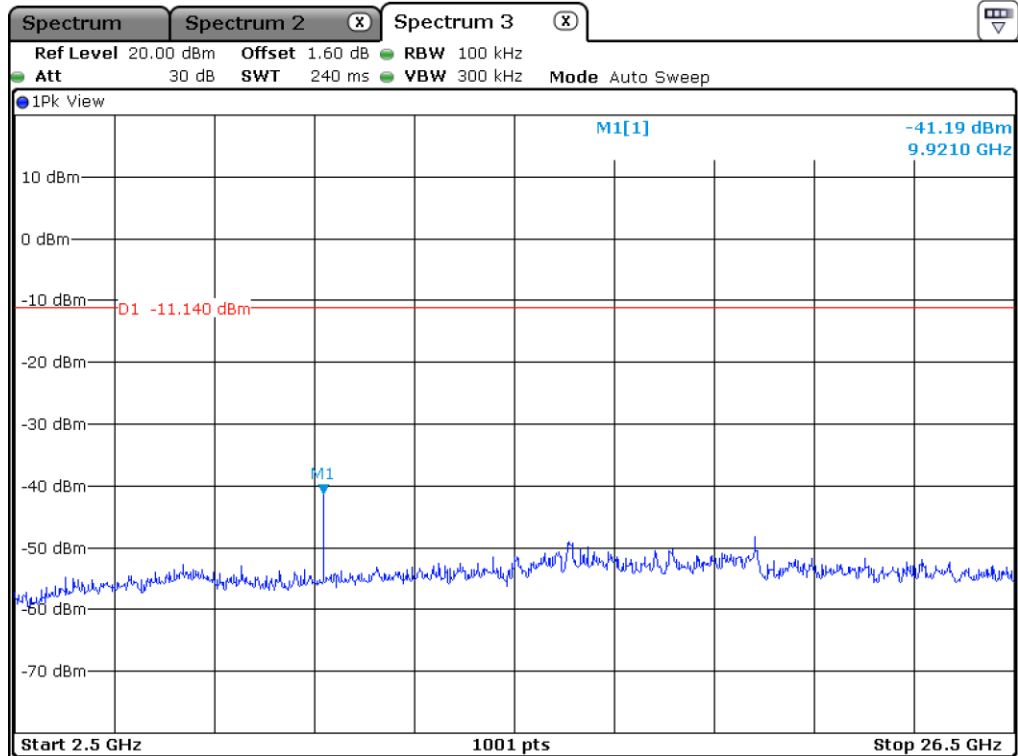
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High Channel



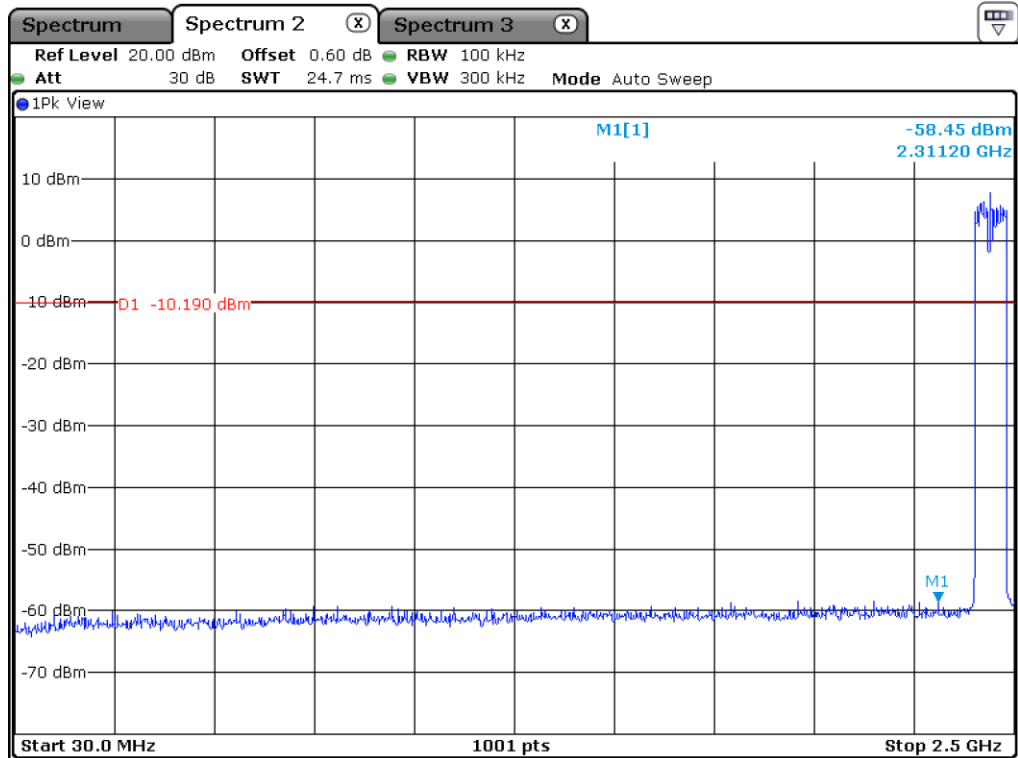
High Channel

This Report is not correlated with the authentication of KOLAS

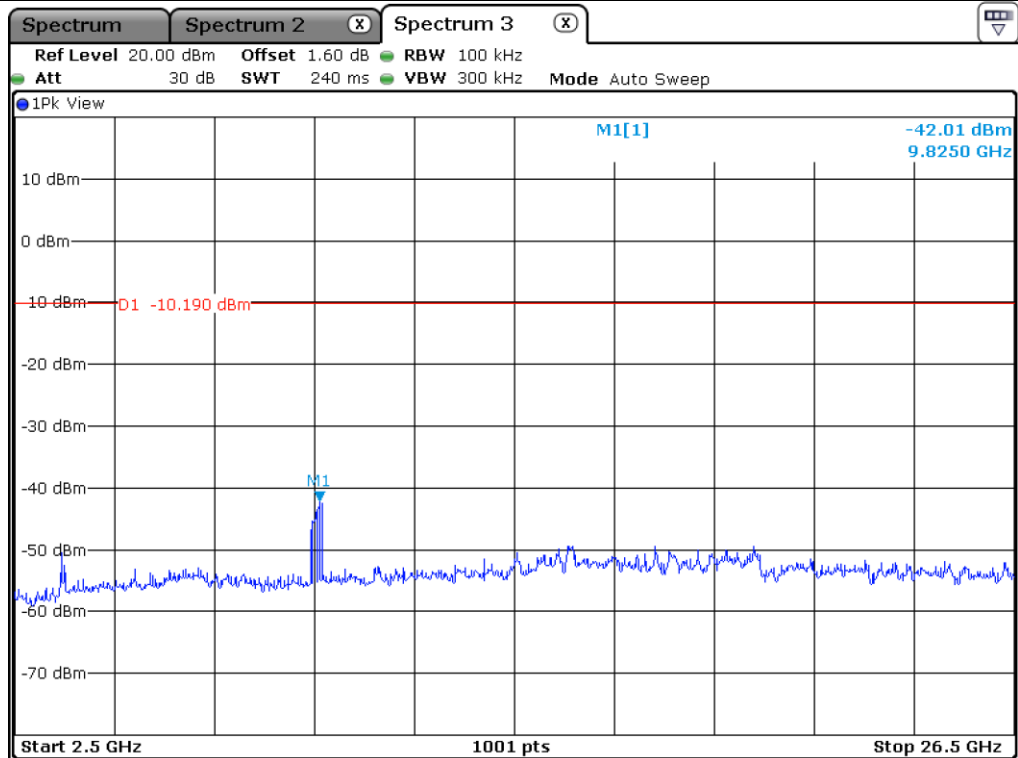
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Hopping Mode



Hopping Mode

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12.6 Test data for Transmitting mode radiated emission

12.6.1 Radiated Emission which fall in the Restricted Band

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 : 57.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 364.37	51.43	Peak	H	27.50	8.20	45.79	-	41.34	74.00	32.66
2 390.00	42.20	Average	H	27.50	8.20	45.79	2.40	34.51	54.00	19.49
2 390.00	50.65	Peak	V	27.50	8.20	45.79	-	40.56	74.00	33.44
2 390.00	41.87	Average	V	27.50	8.20	45.79	2.40	34.18	54.00	19.82
Test Data for High Channel										
2 483.50	58.89	Peak	H	27.30	8.33	45.79	-	48.73	74.00	25.27
2 483.50	47.86	Average	H	27.30	8.33	45.79	2.40	40.10	54.00	13.90
2 483.50	58.43	Peak	V	27.30	8.33	45.79	-	48.27	74.00	25.73
2 484.47	47.55	Average	V	27.30	8.33	45.79	2.40	39.79	54.00	14.21

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 Gain + Duty 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 : 57.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 381.00	52.86	Peak	H	27.50	8.20	45.79	-	42.77	74.00	31.23
2 390.00	42.23	Average	H	27.50	8.20	45.79	2.40	34.54	54.00	19.46
2 377.32	51.66	Peak	V	27.50	8.20	45.79	-	41.57	74.00	32.43
2 390.00	41.75	Average	V	27.50	8.20	45.79	2.40	34.06	54.00	19.94
Test Data for High Channel										
2 483.50	58.13	Peak	H	27.30	8.33	45.79	-	47.97	74.00	26.03
2 483.50	46.56	Average	H	27.30	8.33	45.79	2.40	38.80	54.00	15.20
2 483.50	57.55	Peak	V	27.30	8.33	45.79	-	47.39	74.00	26.61
2 483.50	45.85	Average	V	27.30	8.33	45.79	2.40	38.09	54.00	15.91

Tabulated test data for Restricted Band

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

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

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

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 : 57.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
2 390.00	51.57	Peak	H	27.50	8.20	45.79	-	41.48	74.00	32.52
2 390.00	42.34	Average	H	27.50	8.20	45.79	2.40	34.65	54.00	19.35
2 341.17	50.95	Peak	V	27.50	8.20	45.79	-	40.86	74.00	33.14
2 390.00	41.79	Average	V	27.50	8.20	45.79	2.40	34.10	54.00	19.90
Test Data for High Channel										
2 483.50	58.70	Peak	H	27.30	8.33	45.79	-	48.54	74.00	25.46
2 483.50	46.75	Average	H	27.30	8.33	45.79	2.40	38.99	54.00	15.01
2 483.50	57.66	Peak	V	27.30	8.33	45.79	-	47.50	74.00	26.50
2 483.50	46.03	Average	V	27.30	8.33	45.79	2.40	38.27	54.00	15.73

Tabulated test data for Restricted Band

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

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

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

12.6.2 Spurious & Harmonic Radiated Emission above 1 GHz

12.6.2.1 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 : 57.60 %
- . Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	49.47	Peak	H	31.10	11.19	45.10	-	46.66	74.00	27.34
4 804.00	39.33	Average	H	31.10	11.19	45.10	2.40	38.92	54.00	15.08
4 804.00	49.54	Peak	V	31.10	11.19	45.10	-	46.73	74.00	27.27
4 804.00	39.15	Average	V	31.10	11.19	45.10	2.40	38.74	54.00	15.26
Test Data for Middle Channel										
4 882.00	49.30	Peak	H	31.10	11.24	45.10	-	46.54	74.00	27.46
4 882.00	39.20	Average	H	31.10	11.24	45.10	2.40	38.84	54.00	15.16
4 882.00	49.32	Peak	V	31.10	11.24	45.10	-	46.56	74.00	27.44
4 882.00	39.18	Average	V	31.10	11.24	45.10	2.40	38.82	54.00	15.18
Test Data for High Channel										
4 960.00	49.39	Peak	H	31.20	11.33	45.03	-	46.89	74.00	27.11
4 960.00	39.18	Average	H	31.20	11.33	45.03	2.40	39.08	54.00	14.92
4 960.00	49.31	Peak	V	31.20	11.33	45.03	-	46.81	74.00	27.19
4 960.00	39.30	Average	V	31.20	11.33	45.03	2.40	39.20	54.00	14.80

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

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

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

12.6.2.2 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 : 57.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	49.35	Peak	H	31.10	11.19	45.10	-	46.54	74.00	27.46
4 804.00	39.16	Average	H	31.10	11.19	45.10	2.40	38.75	54.00	15.25
4 804.00	49.55	Peak	V	31.10	11.19	45.10	-	46.74	74.00	27.26
4 804.00	39.34	Average	V	31.10	11.19	45.10	2.40	38.93	54.00	15.07
Test Data for Middle Channel										
4 882.00	49.59	Peak	H	31.10	11.24	45.10	-	46.83	74.00	27.17
4 882.00	39.45	Average	H	31.10	11.24	45.10	2.40	39.09	54.00	14.91
4 882.00	49.42	Peak	V	31.10	11.24	45.10	-	46.66	74.00	27.34
4 882.00	39.43	Average	V	31.10	11.24	45.10	2.40	39.07	54.00	14.93
Test Data for High Channel										
4 960.00	49.31	Peak	H	31.20	11.33	45.03	-	46.81	74.00	27.19
4 960.00	39.33	Average	H	31.20	11.33	45.03	2.40	39.23	54.00	14.77
4 960.00	49.61	Peak	V	31.20	11.33	45.03	-	47.11	74.00	26.89
4 960.00	39.16	Average	V	31.20	11.33	45.03	2.40	39.06	54.00	14.94

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

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

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

12.6.2.3 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 : 57.60 %
- Result : PASSED

Frequency (MHz)	Reading (dBμV)	Detector Mode	Ant. Pol. (H/V)	Ant. Factor	Cable Loss	AMP Gain	Duty Factor (dB)	Total (dBμV/m)	Limits (dBμV/m)	Margin (dB)
Test Data for Low Channel										
4 804.00	49.54	Peak	H	31.10	11.19	45.10	-	46.73	74.00	27.27
4 804.00	39.28	Average	H	31.10	11.19	45.10	2.40	38.87	54.00	15.13
4 804.00	49.53	Peak	V	31.10	11.19	45.10	-	46.72	74.00	27.28
4 804.00	39.24	Average	V	31.10	11.19	45.10	2.40	38.83	54.00	15.17
Test Data for Middle Channel										
4 882.00	49.34	Peak	H	31.10	11.24	45.10	-	46.58	74.00	27.42
4 882.00	39.43	Average	H	31.10	11.24	45.10	2.40	39.07	54.00	14.93
4 882.00	49.51	Peak	V	31.10	11.24	45.10	-	46.75	74.00	27.25
4 882.00	39.16	Average	V	31.10	11.24	45.10	2.40	38.80	54.00	15.20
Test Data for High Channel										
4 960.00	49.57	Peak	H	31.20	11.33	45.03	-	47.07	74.00	26.93
4 960.00	39.30	Average	H	31.20	11.33	45.03	2.40	39.20	54.00	14.80
4 960.00	49.62	Peak	V	31.20	11.33	45.03	-	47.12	74.00	26.88
4 960.00	39.33	Average	V	31.20	11.33	45.03	2.40	39.23	54.00	14.77

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

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

Total Level = Reading + Antenna Factor + Cable Loss – AMP Gain + Duty Factor

13. RADIATED EMISSION TEST

13.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % 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

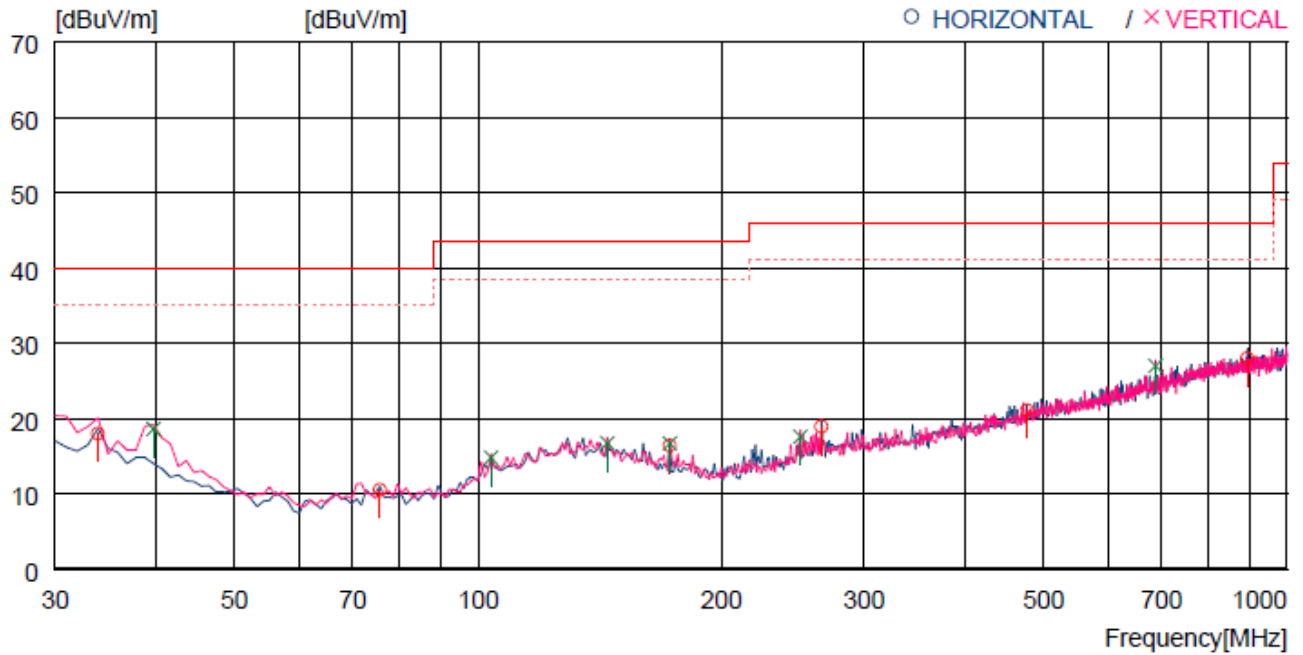
October 07, 2021 ~ October 20, 2021

13.4 Test data for 30 MHz ~ 1 000 MHz

13.4.1 Test data for the Basic model (WCB731M)

13.4.1.1 Test data for Bluetooth Mode

- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	33.880	29.3	19.5	1.2	32.0	18.0	40.0	22.0	100	325
2	75.590	28.0	12.9	1.6	32.0	10.5	40.0	29.5	100	341
3	172.590	29.0	17.1	2.3	32.0	16.4	43.5	27.1	100	341
4	265.710	29.8	18.2	2.9	32.0	18.9	46.0	27.1	100	158
5	477.171	27.0	22.6	3.8	32.3	21.1	46.0	24.9	100	341
6	892.319	26.9	27.5	5.3	31.7	28.0	46.0	18.0	100	241
---- Vertical ----										
7	39.700	31.9	17.4	1.3	32.0	18.6	40.0	21.4	100	258
8	103.720	29.1	15.9	1.8	32.0	14.8	43.5	28.7	100	70
9	144.460	27.5	19.1	2.1	32.0	16.7	43.5	26.8	100	20
10	172.590	29.3	17.1	2.3	32.0	16.7	43.5	26.8	100	86
11	250.190	29.0	17.8	2.8	32.0	17.6	46.0	28.4	100	20
12	687.655	29.3	25.4	4.6	32.3	27.0	46.0	19.0	100	20

13.4.1.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

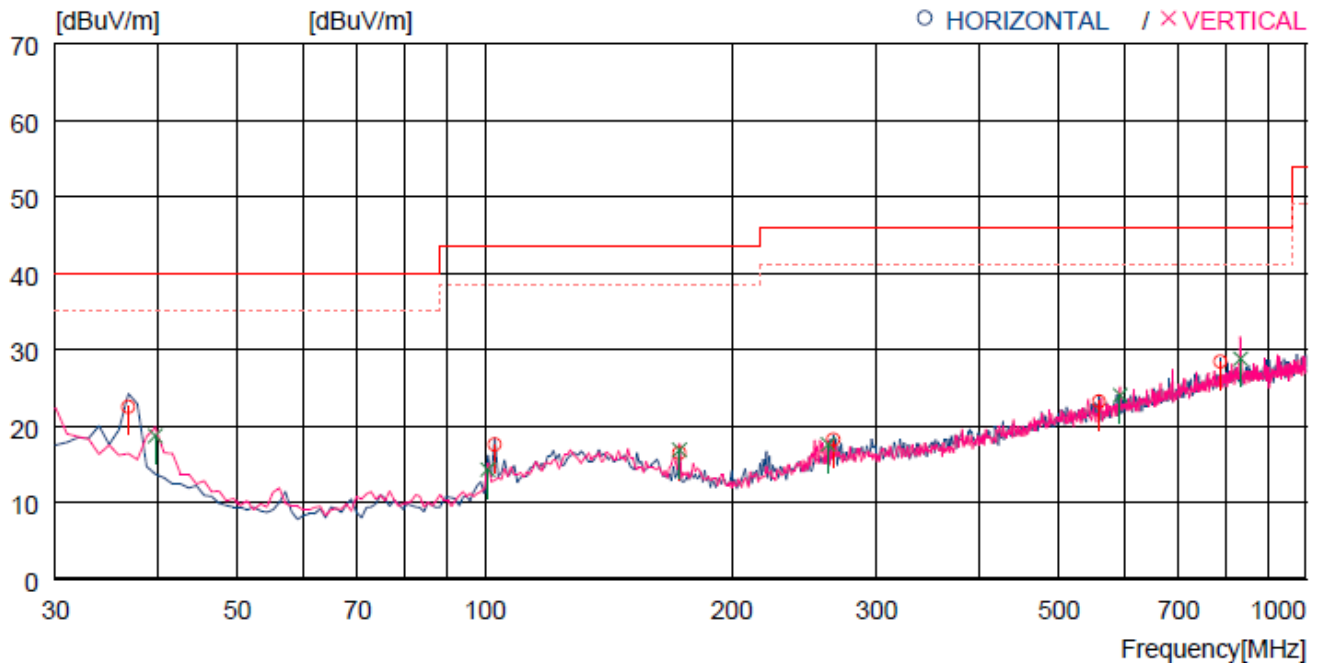
Humidity Level : 46 % R.H. Temperature: 22 °C

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

Result : PASSED

EUT : Wi-Fi/BT Transceiver

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	36.790	34.7	18.5	1.3	32.0	22.5	40.0	17.5	100	303
2	102.750	32.0	15.8	1.8	32.0	17.6	43.5	25.9	100	303
3	172.590	29.1	17.1	2.3	32.0	16.5	43.5	27.0	100	354
4	265.710	29.1	18.2	2.9	32.0	18.2	46.0	27.8	100	354
5	559.619	27.7	23.8	4.1	32.4	23.2	46.0	22.8	100	354
6	786.592	28.6	26.9	4.9	32.0	28.4	46.0	17.6	100	354
---- Vertical ----										
7	39.700	32.0	17.4	1.3	32.0	18.7	40.0	21.3	100	210
8	100.810	29.1	15.4	1.8	32.0	14.3	43.5	29.2	100	357
9	172.590	29.5	17.1	2.3	32.0	16.9	43.5	26.6	100	357
10	261.830	28.7	18.1	2.8	32.0	17.6	46.0	28.4	100	203
11	593.568	28.1	24.1	4.2	32.4	24.0	46.0	22.0	100	235
12	832.181	28.4	27.2	5.1	31.9	28.8	46.0	17.2	100	318

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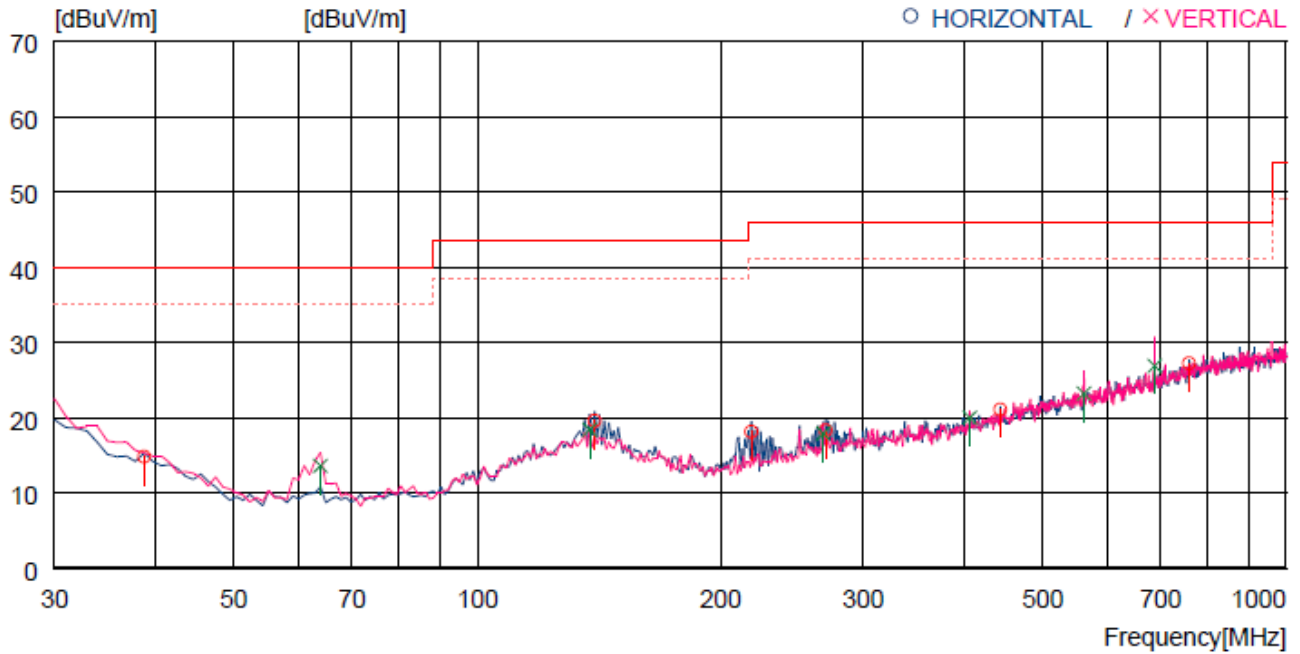
OTC-TRF-RF-001(0)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

13.4.2 Test data for the Multiple model (WCB730M)

13.4.1.1 Test data for Bluetooth Mode

- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	38.730	27.7	17.8	1.3	32.0	14.8	40.0	25.2	212	359
2	139.610	30.0	19.5	2.1	32.0	19.6	43.5	23.9	212	359
3	218.180	31.1	16.4	2.6	32.0	18.1	46.0	27.9	200	123
4	269.590	29.1	18.3	2.9	32.0	18.3	46.0	27.7	100	294
5	443.221	27.9	21.7	3.7	32.2	21.1	46.0	24.9	100	0
6	758.463	28.0	26.5	4.8	32.1	27.2	46.0	18.8	100	85
---- Vertical ----										
7	63.950	31.8	12.4	1.5	32.1	13.6	40.0	26.4	100	0
8	137.670	28.9	19.4	2.1	32.0	18.4	43.5	25.1	100	281
9	267.650	28.7	18.3	2.9	32.0	17.9	46.0	28.1	200	147
10	406.360	27.7	20.9	3.5	32.1	20.0	46.0	26.0	212	359
11	562.529	27.7	23.8	4.1	32.4	23.2	46.0	22.8	212	359
12	687.655	29.2	25.4	4.6	32.3	26.9	46.0	19.1	212	359

13.4.1.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

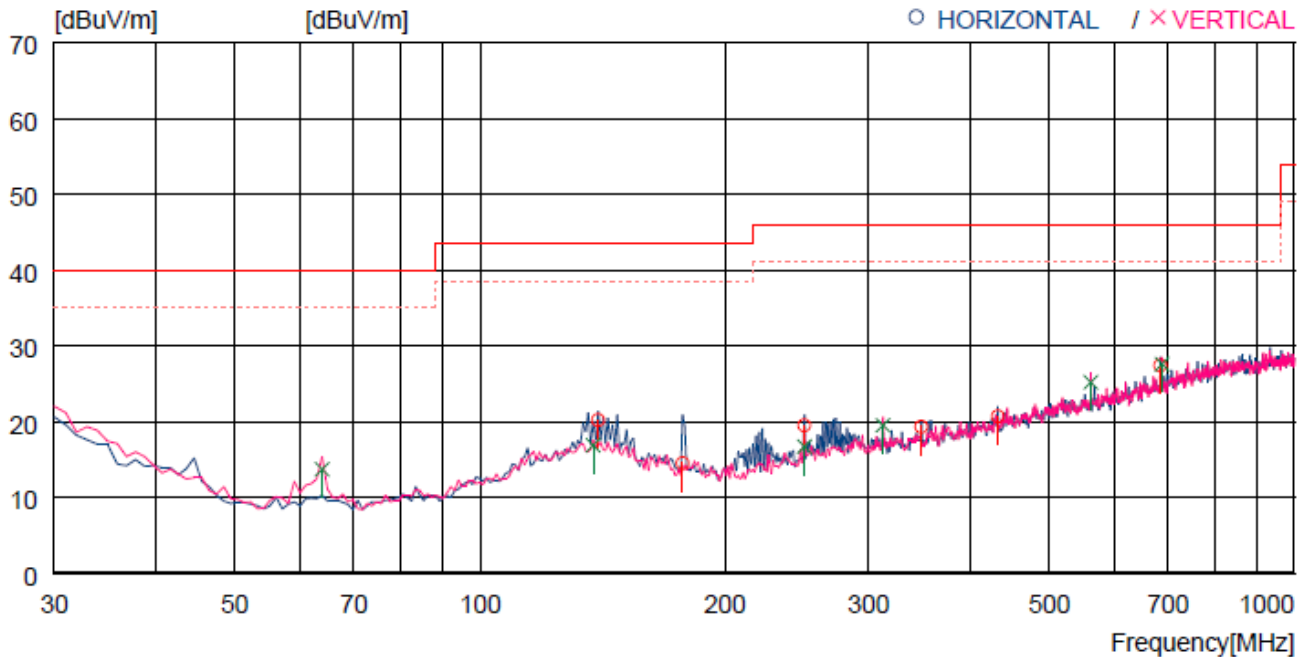
Humidity Level : 46 % R.H. Temperature: 22 °C

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

Result : PASSED

EUT : Wi-Fi/BT Transceiver

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	139.610	30.6	19.5	2.1	32.0	20.2	43.5	23.3	211	0
2	177.440	27.4	16.8	2.3	32.0	14.5	43.5	29.0	100	359
3	250.190	30.9	17.8	2.8	32.0	19.5	46.0	26.5	211	0
4	348.160	28.2	19.9	3.2	32.0	19.3	46.0	26.7	100	86
5	432.551	27.8	21.5	3.6	32.2	20.7	46.0	25.3	100	358
6	684.745	29.7	25.4	4.6	32.3	27.4	46.0	18.6	200	262
---- Vertical ----										
7	63.950	31.9	12.4	1.5	32.1	13.7	40.0	26.3	290	0
8	137.670	27.4	19.4	2.1	32.0	16.9	43.5	26.6	300	119
9	250.190	28.1	17.8	2.8	32.0	16.7	46.0	29.3	290	0
10	312.270	29.0	19.4	3.1	32.0	19.5	46.0	26.5	400	58
11	562.529	29.7	23.8	4.1	32.4	25.2	46.0	20.8	300	356
12	687.655	29.9	25.4	4.6	32.3	27.6	46.0	18.4	400	226

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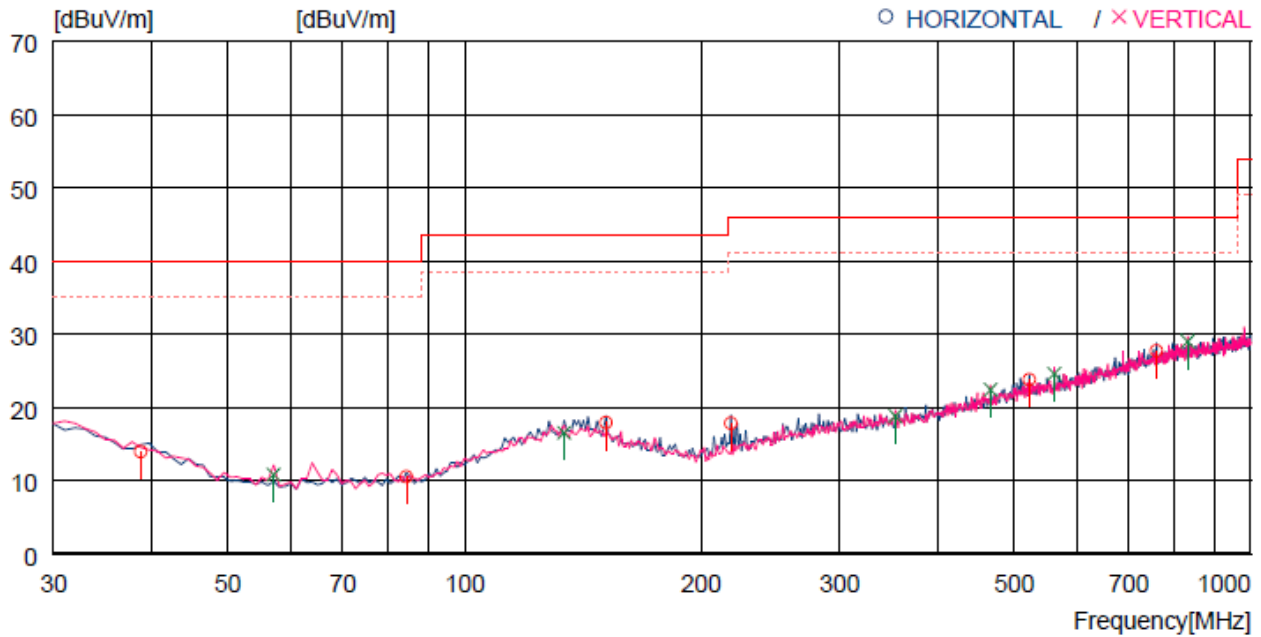
OTC-TRF-RF-001(0)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

13.4.3 Test data for the Multiple model (WCB737M)

13.4.3.1 Test data for Bluetooth Mode

- . Resolution bandwidth : 120 kHz
- . Frequency range : 30 MHz ~ 1 000 MHz
- . Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA TABLE	
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	38.730	26.8	17.8	1.3	32.0	13.9	40.0	26.1	300	359
2	84.320	27.6	13.2	1.7	32.0	10.5	40.0	29.5	300	71
3	151.250	29.1	18.6	2.2	32.0	17.9	43.5	25.6	200	225
4	218.180	30.8	16.4	2.6	32.0	17.8	46.0	28.2	200	114
5	522.760	28.7	23.4	4.0	32.3	23.8	46.0	22.2	400	0
6	758.463	28.5	26.5	4.8	32.1	27.7	46.0	18.3	300	5
---- Vertical ----										
7	57.160	29.0	12.4	1.5	32.1	10.8	40.0	29.2	100	0
8	133.790	27.2	19.2	2.1	32.0	16.5	43.5	27.0	300	0
9	353.010	27.6	20.0	3.3	32.1	18.8	46.0	27.2	300	0
10	466.501	28.6	22.3	3.7	32.2	22.4	46.0	23.6	200	59
11	562.529	29.1	23.8	4.1	32.4	24.6	46.0	21.4	400	359
12	831.211	28.6	27.2	5.1	31.9	29.0	46.0	17.0	300	289

13.4.1.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

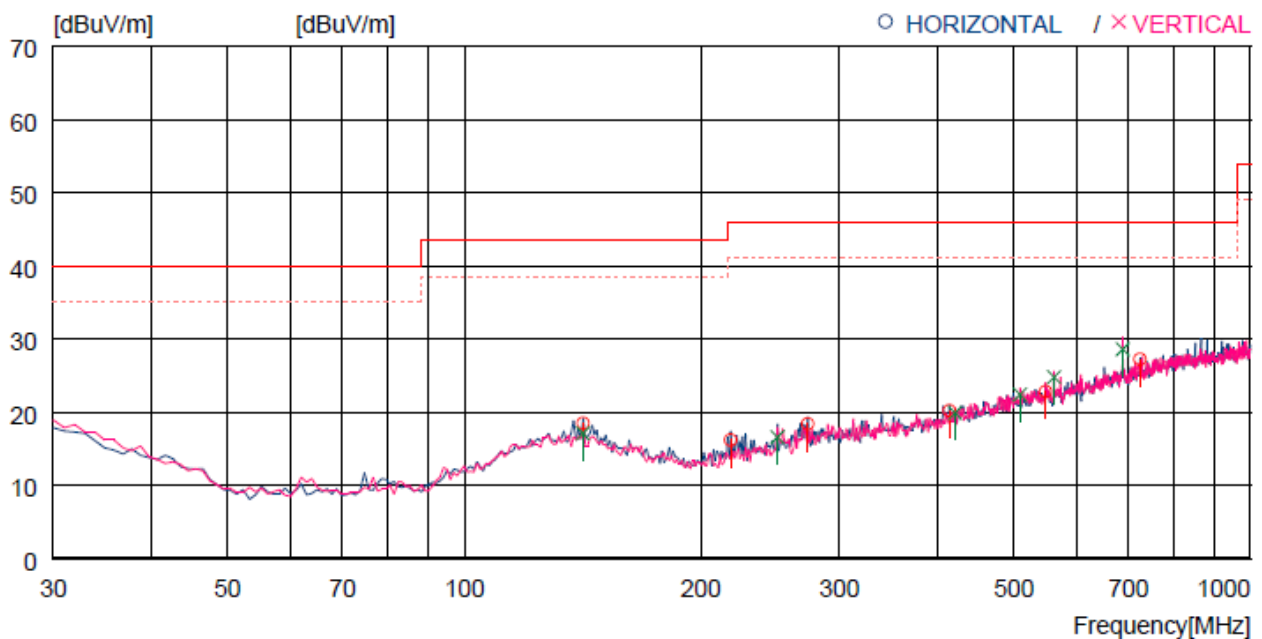
Humidity Level : 46 % R.H. Temperature: 22 °C

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

Result : PASSED

EUT : Wi-Fi/BT Transceiver

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	141.550	29.0	19.4	2.1	32.0	18.5	43.5	25.0	200	358
2	218.180	29.2	16.4	2.6	32.0	16.2	46.0	29.8	200	221
3	273.470	29.0	18.5	2.9	32.0	18.4	46.0	27.6	100	309
4	414.121	27.8	21.0	3.5	32.1	20.2	46.0	25.8	200	5
5	548.950	27.5	23.6	4.0	32.3	22.8	46.0	23.2	200	257
6	723.544	28.7	26.0	4.7	32.2	27.2	46.0	18.8	100	36
----- Vertical -----										
7	141.550	27.6	19.4	2.1	32.0	17.1	43.5	26.4	200	358
8	250.190	28.0	17.8	2.8	32.0	16.6	46.0	29.4	100	321
9	420.911	27.2	21.2	3.6	32.1	19.9	46.0	26.1	200	358
10	509.181	27.6	23.2	3.9	32.3	22.4	46.0	23.6	100	321
11	562.529	29.3	23.8	4.1	32.4	24.8	46.0	21.2	200	358
12	687.655	30.9	25.4	4.6	32.3	28.6	46.0	17.4	200	358

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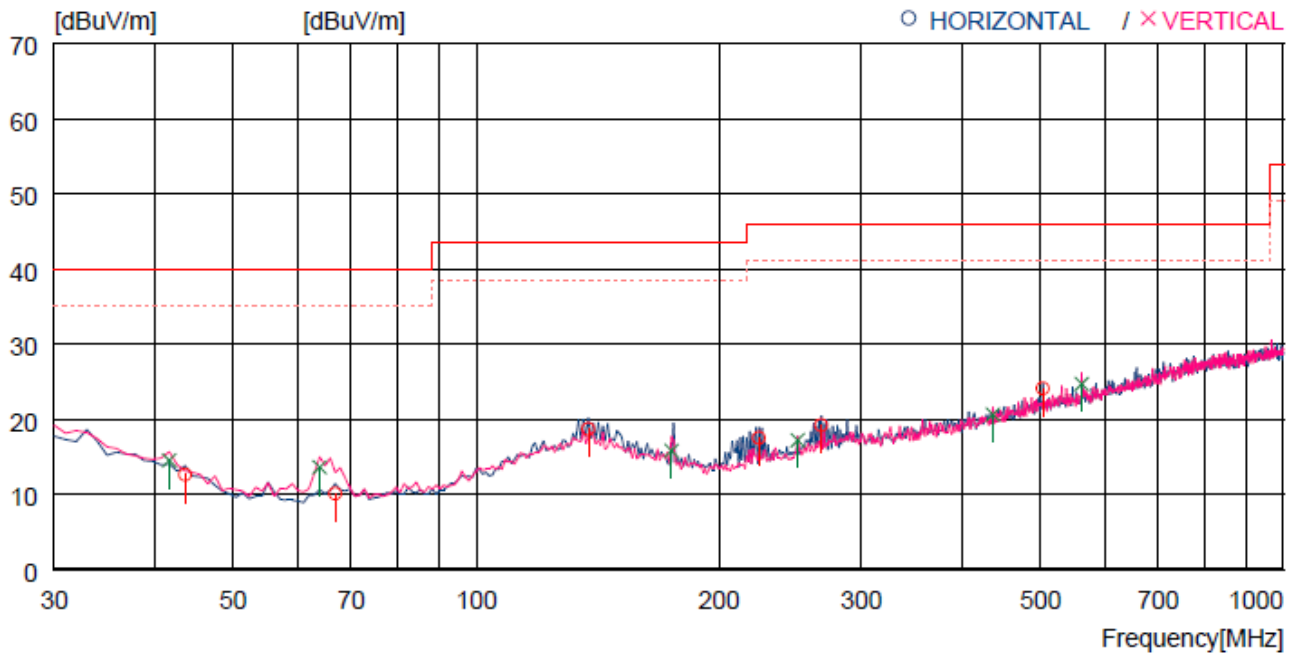
OTC-TRF-RF-001(0)

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

13.4.4 Test data for the Multiple model (WCB736M)

13.4.4.1 Test data for Bluetooth Mode

- Resolution bandwidth : 120 kHz
- Frequency range : 30 MHz ~ 1 000 MHz
- Measurement distance : 3 m



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
---- Horizontal ----										
1	43.580	27.5	15.8	1.3	32.0	12.6	40.0	27.4	100	359
2	66.860	28.0	12.6	1.6	32.1	10.1	40.0	29.9	400	236
3	137.670	29.2	19.4	2.1	32.0	18.7	43.5	24.8	200	0
4	224.000	30.2	16.7	2.6	32.0	17.5	46.0	28.5	200	118
5	267.650	30.0	18.3	2.9	32.0	19.2	46.0	26.8	100	116
6	503.361	29.4	23.1	3.9	32.3	24.1	46.0	21.9	400	94
---- Vertical ----										
7	41.640	28.6	16.6	1.3	32.0	14.5	40.0	25.5	200	359
8	63.950	31.8	12.4	1.5	32.1	13.6	40.0	26.4	100	9
9	174.530	28.5	17.0	2.3	32.0	15.8	43.5	27.7	400	359
10	250.190	28.6	17.8	2.8	32.0	17.2	46.0	28.8	200	359
11	436.431	27.6	21.6	3.6	32.2	20.6	46.0	25.4	200	359
12	562.529	29.2	23.8	4.1	32.4	24.7	46.0	21.3	100	0

13.4.4.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

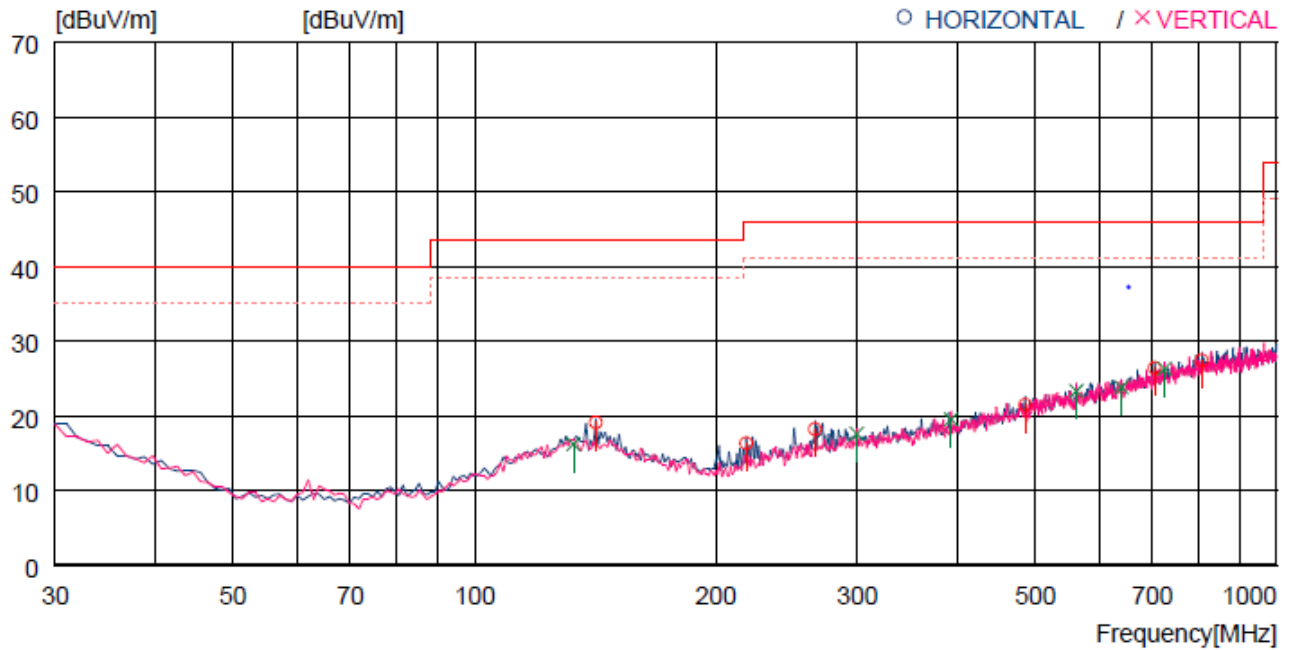
Humidity Level : 46 % R.H. Temperature: 22 °C

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

Result : PASSED

EUT : Wi-Fi/BT Transceiver

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



No.	FREQ	READING	ANT	LOSS	GAIN	RESULT	LIMIT	MARGIN	ANTENNA	TABLE
	[MHz]	[dBuV]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[cm]	[DEG]
----- Horizontal -----										
1	141.550	29.6	19.4	2.1	32.0	19.1	43.5	24.4	200	249
2	218.180	29.3	16.4	2.6	32.0	16.3	46.0	29.7	200	123
3	265.710	29.1	18.2	2.9	32.0	18.2	46.0	27.8	100	90
4	485.901	27.2	22.8	3.8	32.3	21.5	46.0	24.5	200	342
5	704.145	28.3	25.7	4.7	32.3	26.4	46.0	19.6	100	355
6	806.962	27.3	27.1	5.0	32.0	27.4	46.0	18.6	100	32
----- Vertical -----										
7	132.820	26.9	19.2	2.1	32.0	16.2	43.5	27.3	100	0
8	299.660	27.4	19.2	3.0	32.0	17.6	46.0	28.4	100	235
9	392.780	27.6	20.6	3.4	32.1	19.5	46.0	26.5	100	118
10	562.529	27.8	23.8	4.1	32.4	23.3	46.0	22.7	100	0
11	640.127	27.0	24.8	4.4	32.4	23.8	46.0	22.2	100	1
12	724.514	27.8	26.0	4.7	32.2	26.3	46.0	19.7	100	0

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ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

13.5 Test data for Below 30 MHz

- . 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 (dB μ V)	Ant. Pol. (H/V)	Ant. Factor (dB/m)	Cable Loss	Amp Gain	Emission Level(dB μ V/m)	Limits (dB μ V/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

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

14. CONDUCTED EMISSION TEST

14.1 Operating environment

Temperature : 22 °C
Relative humidity : 46 % R.H.

14.2 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.

14.3 Test Date

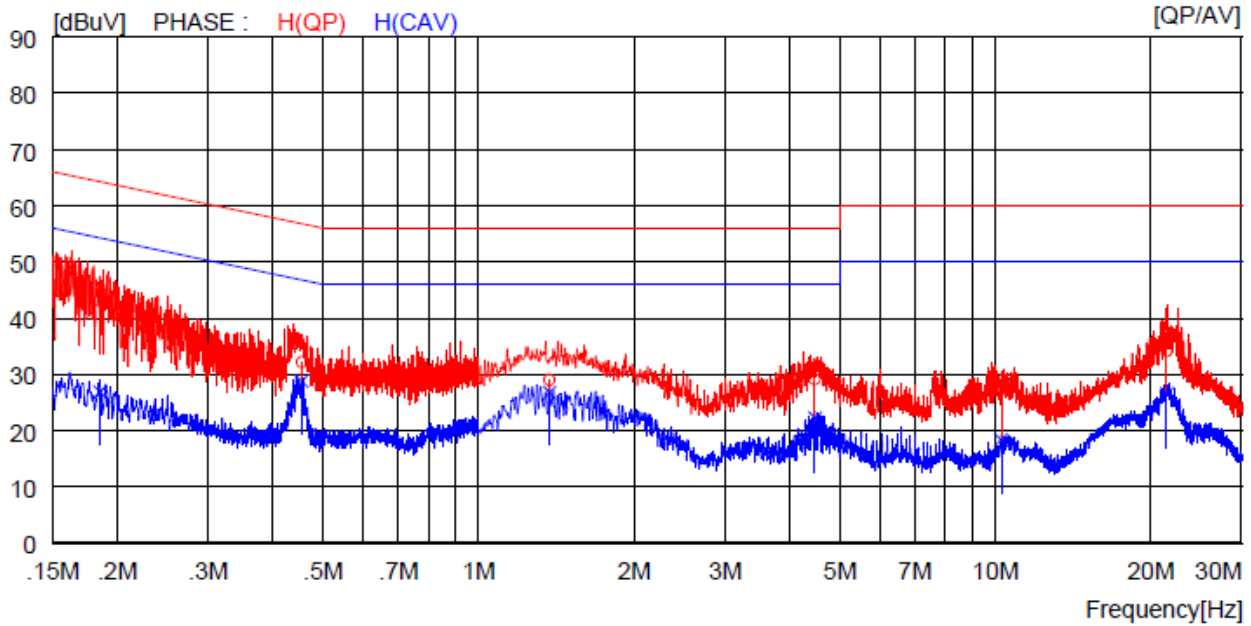
October 07, 2021 ~ October 20, 2021

14.4 Test data for the Basic model (WCB731M)

14.4.1 Test data for Bluetooth

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.18500	33.1	----	10.0	43.1	----	64.3	----	21.2	----	H (QP)
2	0.45500	22.2	----	10.0	32.2	----	56.8	----	24.6	----	H (QP)
3	1.37200	18.9	----	10.1	29.0	----	56.0	----	27.0	----	H (QP)
4	4.48000	19.0	----	10.1	29.1	----	56.0	----	26.9	----	H (QP)
5	10.27000	17.2	----	10.2	27.4	----	60.0	----	32.6	----	H (QP)
6	21.48000	23.7	----	10.4	34.1	----	60.0	----	25.9	----	H (QP)
7	0.18500	----	16.9	10.0	----	26.9	----	54.3	----	27.4	H (CAV)
8	0.45500	----	18.8	10.0	----	28.8	----	46.8	----	18.0	H (CAV)
9	1.37200	----	16.7	10.1	----	26.8	----	46.0	----	19.2	H (CAV)
10	4.48000	----	12.1	10.1	----	22.2	----	46.0	----	23.8	H (CAV)
11	10.27000	----	8.1	10.2	----	18.3	----	50.0	----	31.7	H (CAV)
12	21.48000	----	16.1	10.4	----	26.5	----	50.0	----	23.5	H (CAV)

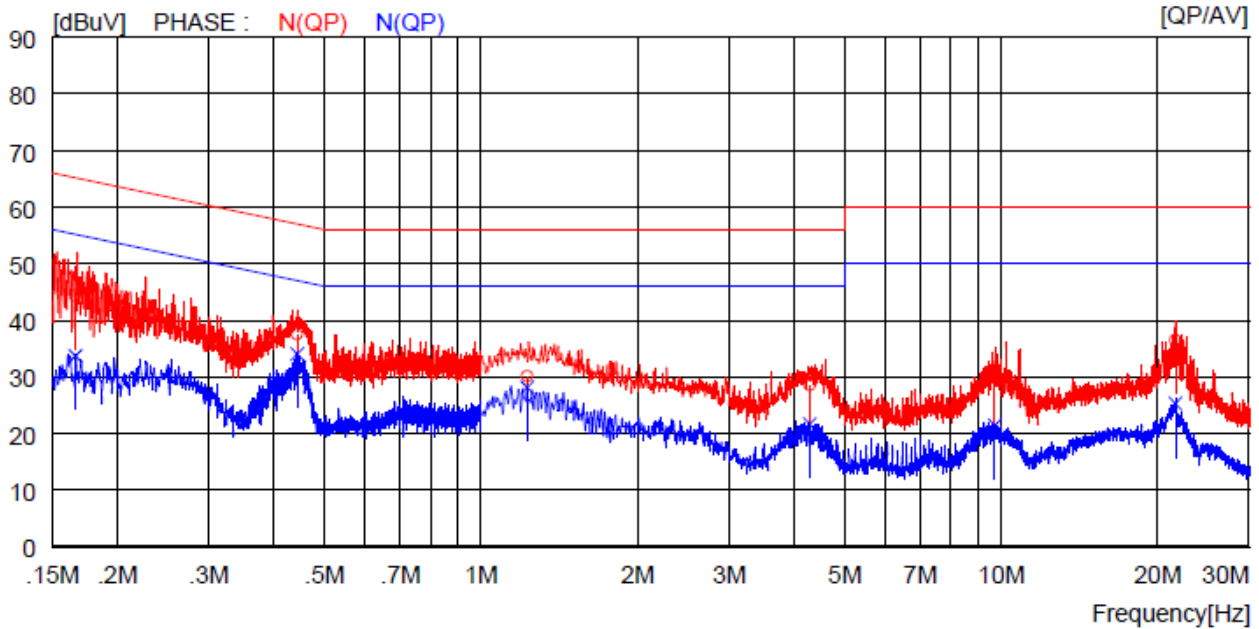
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-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.16600	34.3	----	10.0	44.3	----	65.2	----	20.9	----	N (QP)
2	0.44300	27.5	----	10.0	37.5	----	57.0	----	19.5	----	N (QP)
3	1.22800	20.0	----	10.1	30.1	----	56.0	----	25.9	----	N (QP)
4	4.28800	18.4	----	10.1	28.5	----	56.0	----	27.5	----	N (QP)
5	9.73500	19.6	----	10.2	29.8	----	60.0	----	30.2	----	N (QP)
6	21.67000	26.1	----	10.4	36.5	----	60.0	----	23.5	----	N (QP)
7	0.16600	----	23.7	10.0	----	33.7	----	55.2	----	21.5	N (CAV)
8	0.44300	----	24.0	10.0	----	34.0	----	47.0	----	13.0	N (CAV)
9	1.22800	----	18.0	10.1	----	28.1	----	46.0	----	17.9	N (CAV)
10	4.28800	----	11.6	10.1	----	21.7	----	46.0	----	24.3	N (CAV)
11	9.73500	----	11.2	10.2	----	21.4	----	50.0	----	28.6	N (CAV)
12	21.67000	----	14.9	10.4	----	25.3	----	50.0	----	24.7	N (CAV)

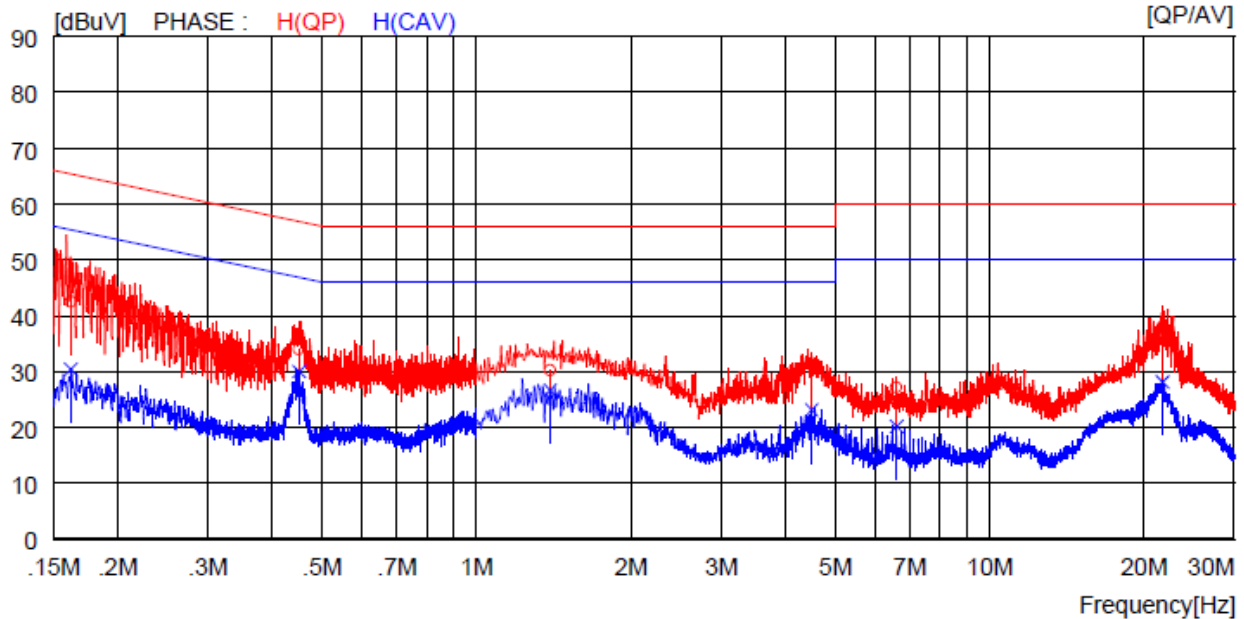
Remark: Margin (dB) = Limit – Level (Result)

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

14.4.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	32.5	----	10.0	42.5	----	65.4	----	22.9	----	H (QP)
2	0.45100	24.0	----	10.0	34.0	----	56.9	----	22.9	----	H (QP)
3	1.39200	20.1	----	10.1	30.2	----	56.0	----	25.8	----	H (QP)
4	4.50400	21.1	----	10.2	31.3	----	56.0	----	24.7	----	H (QP)
5	6.58500	17.0	----	10.2	27.2	----	60.0	----	32.8	----	H (QP)
6	21.75000	27.7	----	10.4	38.1	----	60.0	----	21.9	----	H (QP)
7	0.16200	----	20.4	10.0	----	30.4	----	55.4	----	25.0	H (CAV)
8	0.45100	----	20.0	10.0	----	30.0	----	46.9	----	16.9	H (CAV)
9	1.39200	----	16.6	10.1	----	26.7	----	46.0	----	19.3	H (CAV)
10	4.50400	----	12.9	10.2	----	23.1	----	46.0	----	22.9	H (CAV)
11	6.58500	----	10.0	10.2	----	20.2	----	50.0	----	29.8	H (CAV)
12	21.75000	----	17.7	10.4	----	28.1	----	50.0	----	21.9	H (CAV)

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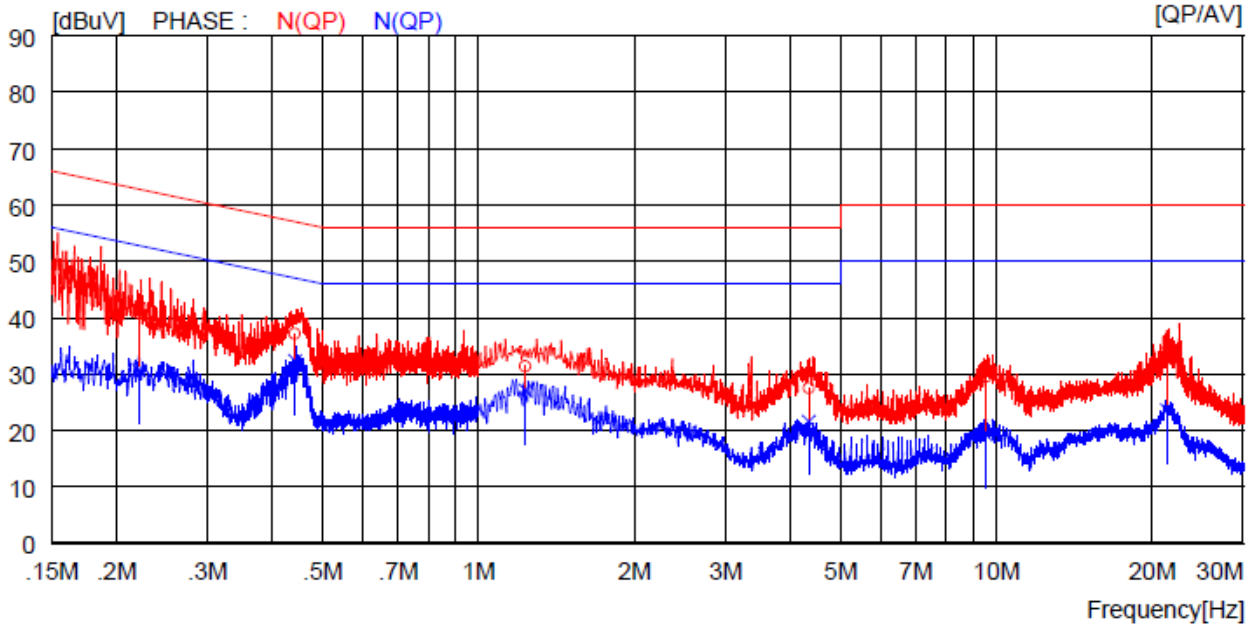
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ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.22100	30.8	----	10.0	40.8	----	62.8	----	22.0	----	N (QP)
2	0.44200	27.2	----	10.0	37.2	----	57.0	----	19.8	----	N (QP)
3	1.23200	21.3	----	10.1	31.4	----	56.0	----	24.6	----	N (QP)
4	4.34800	17.4	----	10.1	27.5	----	56.0	----	28.5	----	N (QP)
5	9.56500	19.3	----	10.2	29.5	----	60.0	----	30.5	----	N (QP)
6	21.36000	23.7	----	10.4	34.1	----	60.0	----	25.9	----	N (QP)
7	0.22100	----	20.6	10.0	----	30.6	----	52.8	----	22.2	N (CAV)
8	0.44200	----	22.4	10.0	----	32.4	----	47.0	----	14.6	N (CAV)
9	1.23200	----	17.0	10.1	----	27.1	----	46.0	----	18.9	N (CAV)
10	4.34800	----	11.5	10.1	----	21.6	----	46.0	----	24.4	N (CAV)
11	9.56500	----	9.1	10.2	----	19.3	----	50.0	----	30.7	N (CAV)
12	21.36000	----	13.2	10.4	----	23.6	----	50.0	----	26.4	N (CAV)

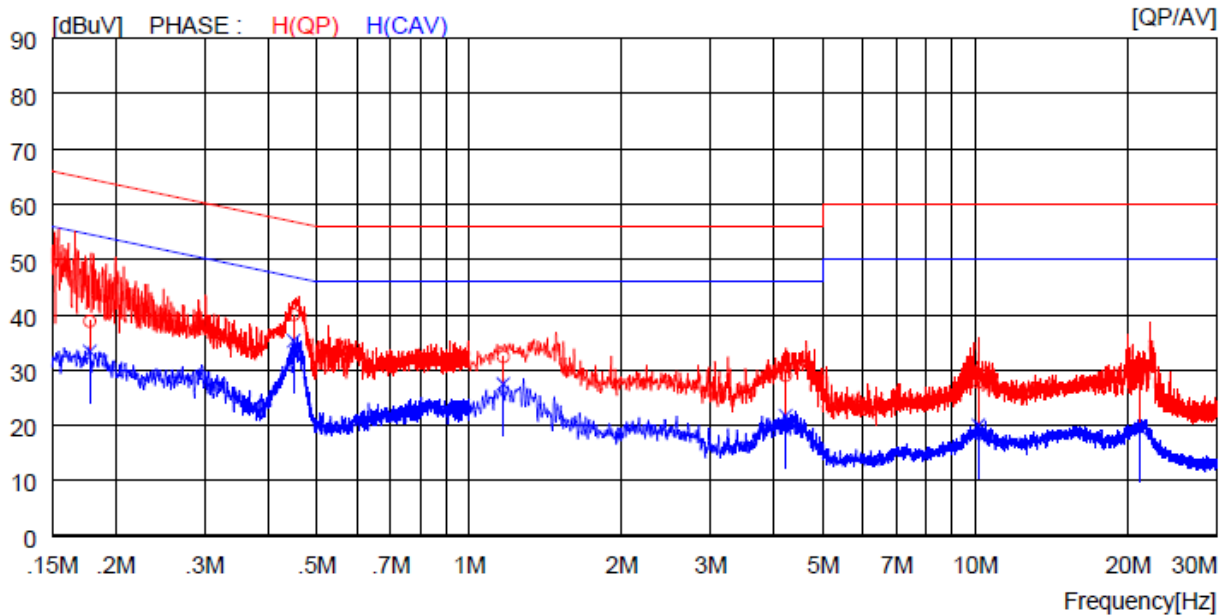
Remark: Margin (dB) = Limit – Level (Result)

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

14.5 Test data for the Multiple model (WCB730M)

14.5.1 Test data for Bluetooth

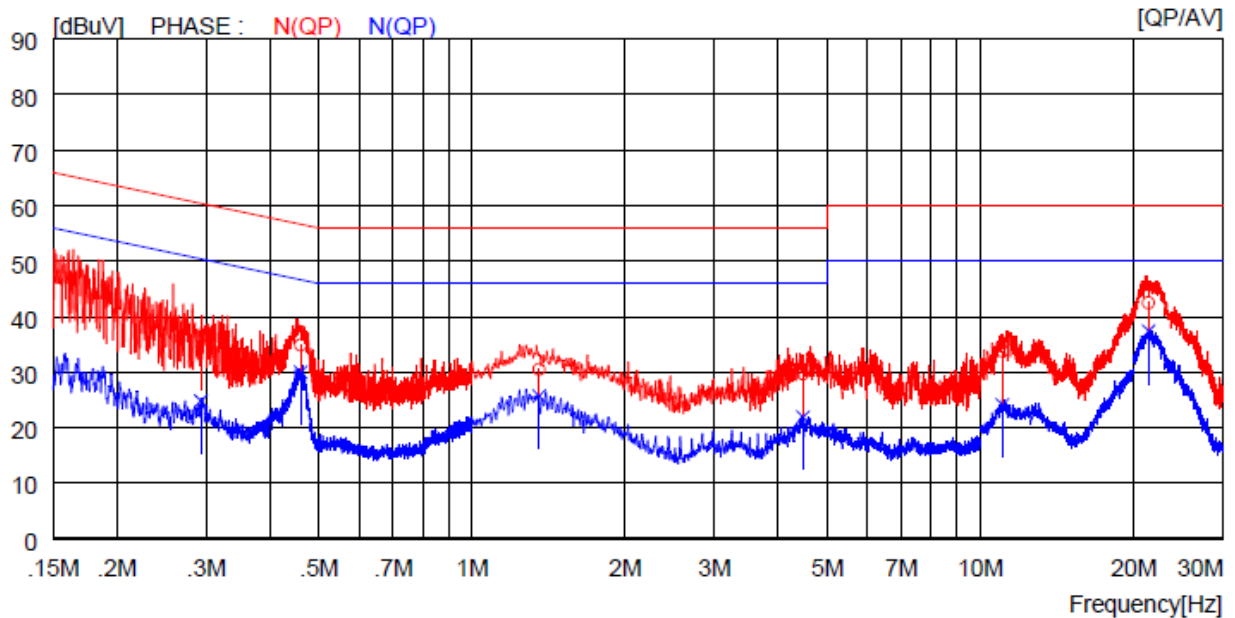
- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE



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	0.17800	28.9	----	9.9	38.8	----	64.6	----	25.8	----	H (QP)
2	0.45000	30.1	----	9.9	40.0	----	56.9	----	16.9	----	H (QP)
3	1.16800	22.4	----	10.0	32.4	----	56.0	----	23.6	----	H (QP)
4	4.22000	18.9	----	10.1	29.0	----	56.0	----	27.0	----	H (QP)
5	10.14000	17.6	----	10.2	27.8	----	60.0	----	32.2	----	H (QP)
6	21.22000	19.8	----	10.4	30.2	----	60.0	----	29.8	----	H (QP)
7	0.17800	----	23.5	9.9	----	33.4	----	54.6	----	21.2	H (CAV)
8	0.45000	----	25.4	9.9	----	35.3	----	46.9	----	11.6	H (CAV)
9	1.16800	----	17.5	10.0	----	27.5	----	46.0	----	18.5	H (CAV)
10	4.22000	----	11.6	10.1	----	21.7	----	46.0	----	24.3	H (CAV)
11	10.14000	----	9.8	10.2	----	20.0	----	50.0	----	30.0	H (CAV)
12	21.22000	----	8.9	10.4	----	19.3	----	50.0	----	30.7	H (CAV)

-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.29300	26.4	----	9.9	36.3	----	60.4	----	24.1	----	N (QP)
2	0.46100	25.0	----	9.9	34.9	----	56.7	----	21.8	----	N (QP)
3	1.35600	20.4	----	10.1	30.5	----	56.0	----	25.5	----	N (QP)
4	4.48000	19.6	----	10.1	29.7	----	56.0	----	26.3	----	N (QP)
5	11.04000	23.6	----	10.2	33.8	----	60.0	----	26.2	----	N (QP)
6	21.43000	32.1	----	10.4	42.5	----	60.0	----	17.5	----	N (QP)
7	0.29300	----	14.9	9.9	----	24.8	----	50.4	----	25.6	N (CAV)
8	0.46100	----	20.1	9.9	----	30.0	----	46.7	----	16.7	N (CAV)
9	1.35600	----	15.6	10.1	----	25.7	----	46.0	----	20.3	N (CAV)
10	4.48000	----	11.8	10.1	----	21.9	----	46.0	----	24.1	N (CAV)
11	11.04000	----	13.9	10.2	----	24.1	----	50.0	----	25.9	N (CAV)
12	21.43000	----	27.0	10.4	----	37.4	----	50.0	----	12.6	N (CAV)

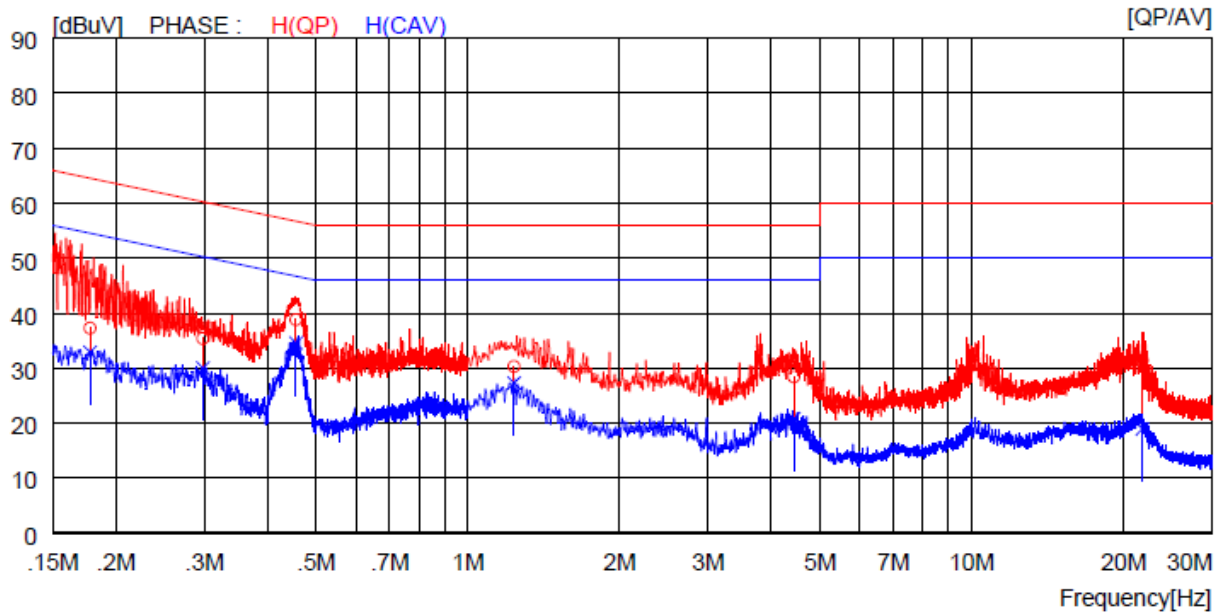
Remark: Margin (dB) = Limit – Level (Result)

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

14.5.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.17800	27.4	----	9.9	37.3	----	64.6	----	27.3	----	H (QP)
2	0.29800	25.5	----	9.9	35.4	----	60.3	----	24.9	----	H (QP)
3	0.45600	28.9	----	9.9	38.8	----	56.8	----	18.0	----	H (QP)
4	1.23600	20.2	----	10.1	30.3	----	56.0	----	25.7	----	H (QP)
5	4.44000	18.3	----	10.1	28.4	----	56.0	----	27.6	----	H (QP)
6	21.83000	21.1	----	10.4	31.5	----	60.0	----	28.5	----	H (QP)
7	0.17800	----	23.0	9.9	----	32.9	----	54.6	----	21.7	H (CAV)
8	0.29800	----	20.1	9.9	----	30.0	----	50.3	----	20.3	H (CAV)
9	0.45600	----	24.7	9.9	----	34.6	----	46.8	----	12.2	H (CAV)
10	1.23600	----	17.2	10.1	----	27.3	----	46.0	----	18.7	H (CAV)
11	4.44000	----	10.7	10.1	----	20.8	----	46.0	----	25.2	H (CAV)
12	21.83000	----	8.6	10.4	----	19.0	----	50.0	----	31.0	H (CAV)

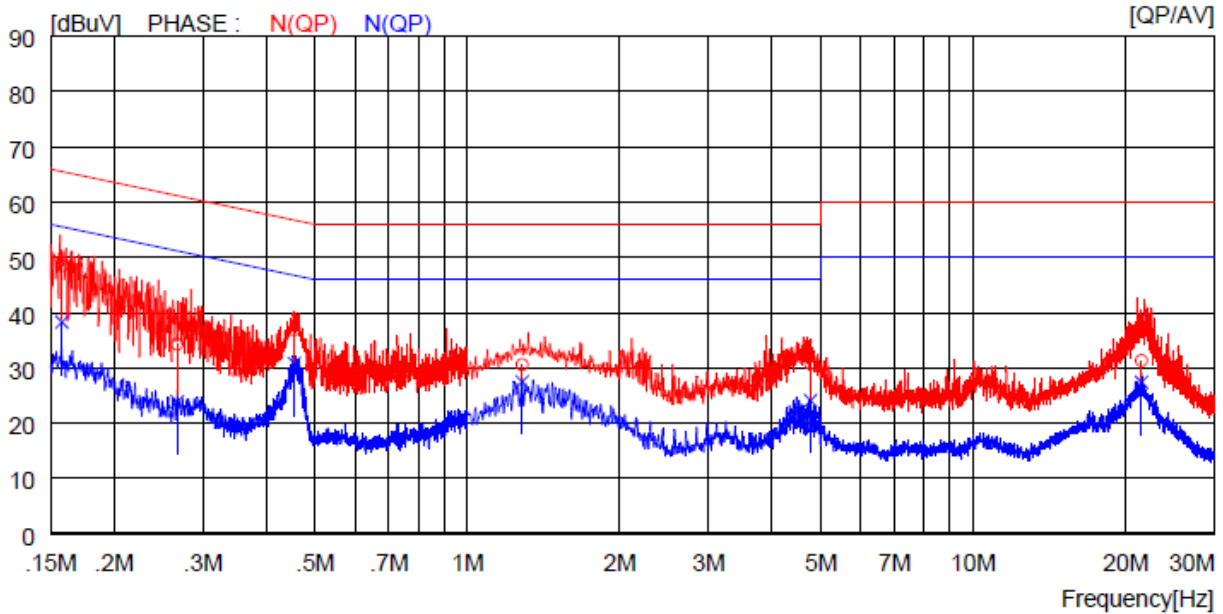
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-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.15800	38.6	----	9.9	48.5	----	65.6	----	17.1	----	N (QP)
2	0.26700	24.4	----	9.9	34.3	----	61.2	----	26.9	----	N (QP)
3	0.45500	27.0	----	9.9	36.9	----	56.8	----	19.9	----	N (QP)
4	1.28400	20.5	----	10.1	30.6	----	56.0	----	25.4	----	N (QP)
5	4.77200	20.7	----	10.1	30.8	----	56.0	----	25.2	----	N (QP)
6	21.55000	20.9	----	10.4	31.3	----	60.0	----	28.7	----	N (QP)
7	0.15800	----	28.4	9.9	----	38.3	----	55.6	----	17.3	N (CAV)
8	0.26700	----	14.0	9.9	----	23.9	----	51.2	----	27.3	N (CAV)
9	0.45500	----	20.9	9.9	----	30.8	----	46.8	----	16.0	N (CAV)
10	1.28400	----	17.4	10.1	----	27.5	----	46.0	----	18.5	N (CAV)
11	4.77200	----	14.0	10.1	----	24.1	----	46.0	----	21.9	N (CAV)
12	21.55000	----	17.0	10.4	----	27.4	----	50.0	----	22.6	N (CAV)

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

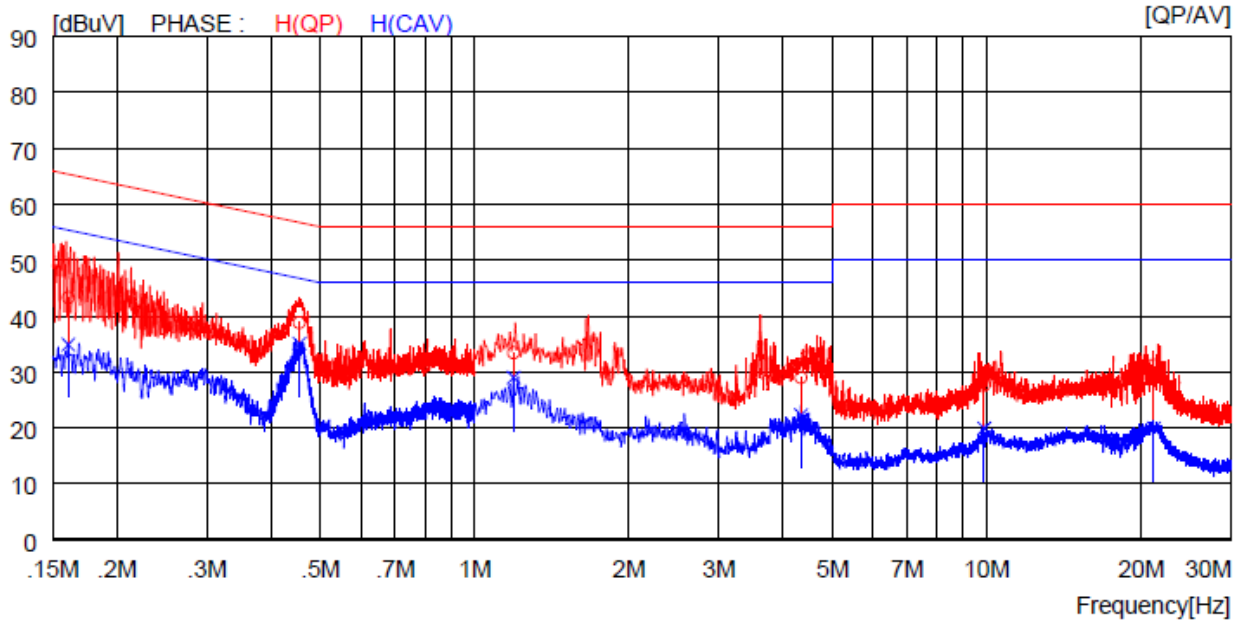
The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

14.6 Test data for the Multiple model (WCB737M)

14.6.1 Test data for Bluetooth

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



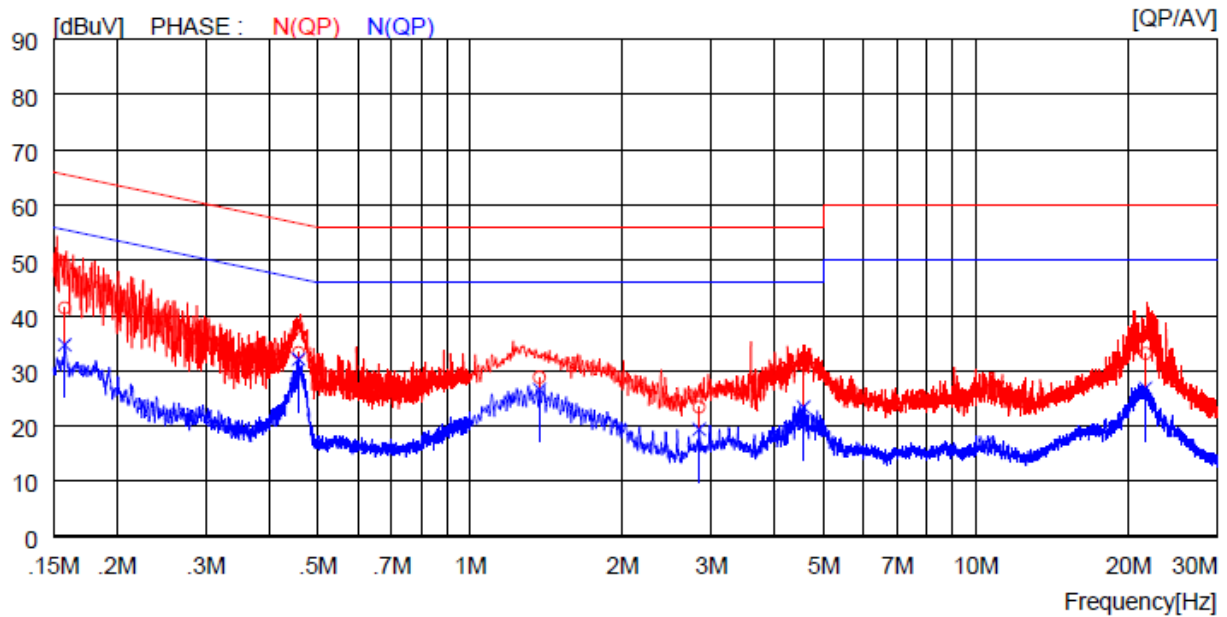
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.16100	33.4	----	9.9	43.3	----	65.4	----	22.1	----	H (QP)
2	0.45500	28.9	----	9.9	38.8	----	56.8	----	18.0	----	H (QP)
3	1.19200	23.4	----	10.0	33.4	----	56.0	----	22.6	----	H (QP)
4	4.34000	18.9	----	10.1	29.0	----	56.0	----	27.0	----	H (QP)
5	9.89000	17.4	----	10.2	27.6	----	60.0	----	32.4	----	H (QP)
6	21.20000	20.8	----	10.4	31.2	----	60.0	----	28.8	----	H (QP)
7	0.16100	----	25.0	9.9	----	34.9	----	55.4	----	20.5	H (CAV)
8	0.45500	----	25.2	9.9	----	35.1	----	46.8	----	11.7	H (CAV)
9	1.19200	----	19.0	10.0	----	29.0	----	46.0	----	17.0	H (CAV)
10	4.34000	----	12.2	10.1	----	22.3	----	46.0	----	23.7	H (CAV)
11	9.89000	----	9.7	10.2	----	19.9	----	50.0	----	30.1	H (CAV)
12	21.20000	----	9.5	10.4	----	19.9	----	50.0	----	30.1	H (CAV)

-. Tested Line : NEUTRAL LINE

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.

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)

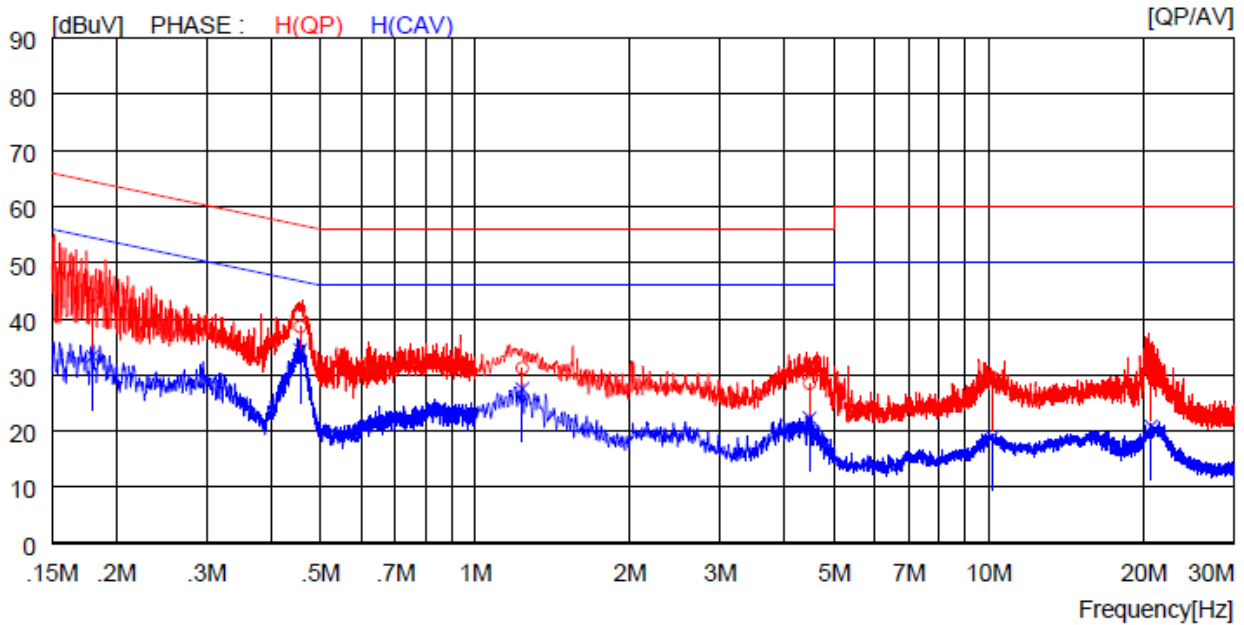


NO	FREQ [MHz]	READING		C. FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15800	31.5	----	9.9	41.4	----	65.6	----	24.2	----	N (QP)
2	0.45800	23.4	----	9.9	33.3	----	56.7	----	23.4	----	N (QP)
3	1.37200	18.7	----	10.1	28.8	----	56.0	----	27.2	----	N (QP)
4	2.83600	13.3	----	10.1	23.4	----	56.0	----	32.6	----	N (QP)
5	4.56400	21.1	----	10.1	31.2	----	56.0	----	24.8	----	N (QP)
6	21.65000	22.7	----	10.4	33.1	----	60.0	----	26.9	----	N (QP)
7	0.15800	----	24.8	9.9	----	34.7	----	55.6	----	20.9	N (CAV)
8	0.45800	----	22.2	9.9	----	32.1	----	46.7	----	14.6	N (CAV)
9	1.37200	----	16.5	10.1	----	26.6	----	46.0	----	19.4	N (CAV)
10	2.83600	----	9.3	10.1	----	19.4	----	46.0	----	26.6	N (CAV)
11	4.56400	----	13.3	10.1	----	23.4	----	46.0	----	22.6	N (CAV)
12	21.65000	----	16.4	10.4	----	26.8	----	50.0	----	23.2	N (CAV)

14.6.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

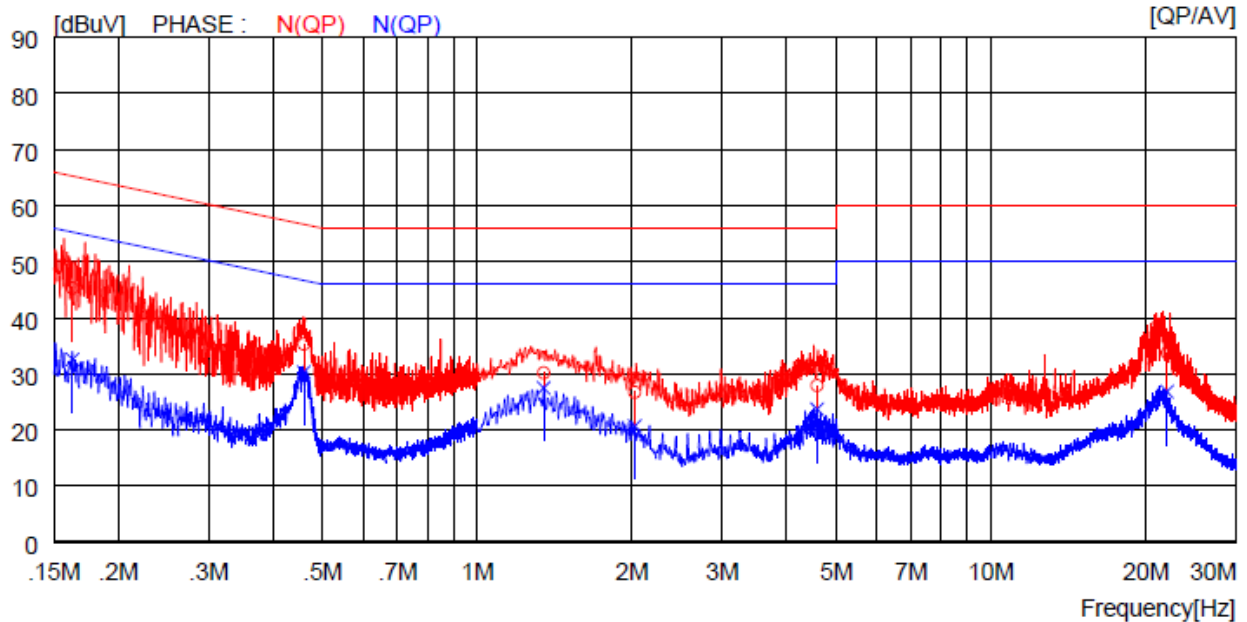
LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.18000	34.4	----	9.9	44.3	----	64.5	----	20.2	----	H (QP)
2	0.45700	28.7	----	9.9	38.6	----	56.7	----	18.1	----	H (QP)
3	1.23600	21.1	----	10.1	31.2	----	56.0	----	24.8	----	H (QP)
4	4.48000	18.4	----	10.1	28.5	----	56.0	----	27.5	----	H (QP)
5	10.15000	19.4	----	10.2	29.6	----	60.0	----	30.4	----	H (QP)
6	20.68000	21.1	----	10.4	31.5	----	60.0	----	28.5	----	H (QP)
7	0.18000	----	23.4	9.9	----	33.3	----	54.5	----	21.2	H (CAV)
8	0.45700	----	24.5	9.9	----	34.4	----	46.7	----	12.3	H (CAV)
9	1.23600	----	17.4	10.1	----	27.5	----	46.0	----	18.5	H (CAV)
10	4.48000	----	12.2	10.1	----	22.3	----	46.0	----	23.7	H (CAV)
11	10.15000	----	8.8	10.2	----	19.0	----	50.0	----	31.0	H (CAV)
12	20.68000	----	10.4	10.4	----	20.8	----	50.0	----	29.2	H (CAV)

-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.16300	35.4	----	9.9	45.3	----	65.3	----	20.0	----	N (QP)
2	0.46000	25.4	----	9.9	35.3	----	56.7	----	21.4	----	N (QP)
3	1.34800	20.1	----	10.1	30.2	----	56.0	----	25.8	----	N (QP)
4	2.02800	16.6	----	10.1	26.7	----	56.0	----	29.3	----	N (QP)
5	4.59200	17.8	----	10.1	27.9	----	56.0	----	28.1	----	N (QP)
6	22.02000	23.3	----	10.4	33.7	----	60.0	----	26.3	----	N (QP)
7	0.16300	----	22.7	9.9	----	32.6	----	55.3	----	22.7	N (CAV)
8	0.46000	----	20.4	9.9	----	30.3	----	46.7	----	16.4	N (CAV)
9	1.34800	----	17.4	10.1	----	27.5	----	46.0	----	18.5	N (CAV)
10	2.02800	----	10.6	10.1	----	20.7	----	46.0	----	25.3	N (CAV)
11	4.59200	----	13.6	10.1	----	23.7	----	46.0	----	22.3	N (CAV)
12	22.02000	----	16.4	10.4	----	26.8	----	50.0	----	23.2	N (CAV)

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

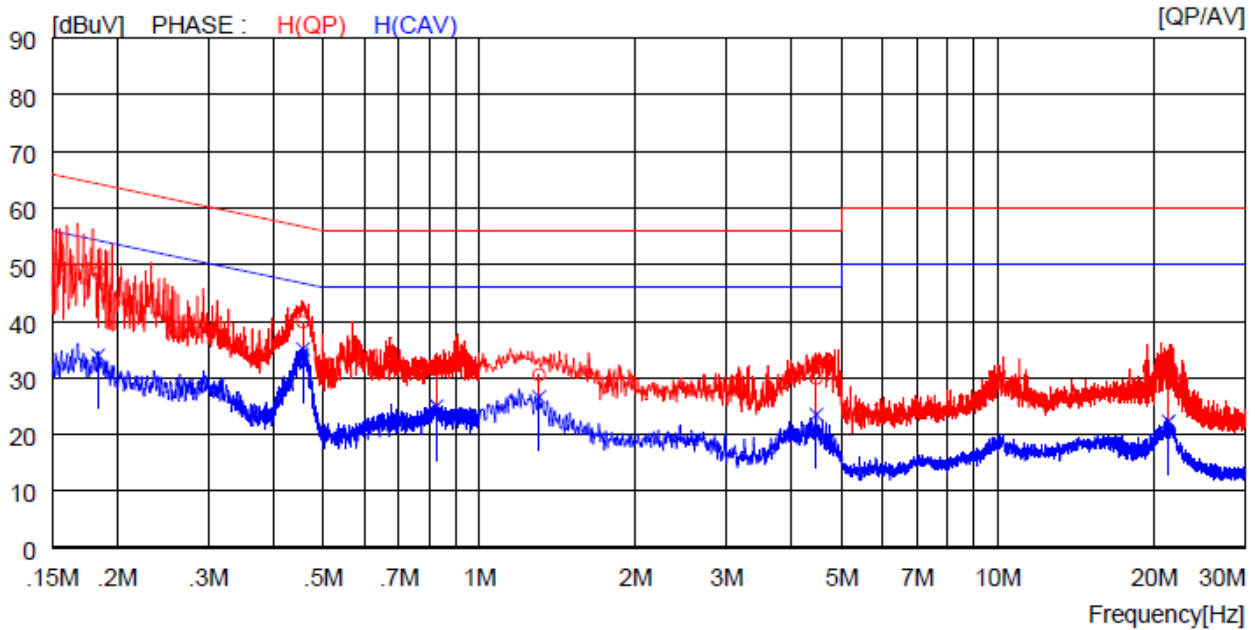
The emission level in above table is included the transducer factor that means insertion loss (LISN), cable loss and attenuator.

14.7 Test data for the Multiple model (WCB736M)

14.7.1 Test data for Bluetooth

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.18400	38.7	----	9.9	48.6	----	64.3	----	15.7	----	H (QP)
2	0.45700	30.0	----	9.9	39.9	----	56.7	----	16.8	----	H (QP)
3	0.82700	21.4	----	10.0	31.4	----	56.0	----	24.6	----	H (QP)
4	1.30400	20.4	----	10.1	30.5	----	56.0	----	25.5	----	H (QP)
5	4.46400	19.8	----	10.1	29.9	----	56.0	----	26.1	----	H (QP)
6	21.34000	20.1	----	10.4	30.5	----	60.0	----	29.5	----	H (QP)
7	0.18400	----	24.1	9.9	----	34.0	----	54.3	----	20.3	H (CAV)
8	0.45700	----	25.2	9.9	----	35.1	----	46.7	----	11.6	H (CAV)
9	0.82700	----	15.0	10.0	----	25.0	----	46.0	----	21.0	H (CAV)
10	1.30400	----	16.5	10.1	----	26.6	----	46.0	----	19.4	H (CAV)
11	4.46400	----	13.4	10.1	----	23.5	----	46.0	----	22.5	H (CAV)
12	21.34000	----	11.9	10.4	----	22.3	----	50.0	----	27.7	H (CAV)

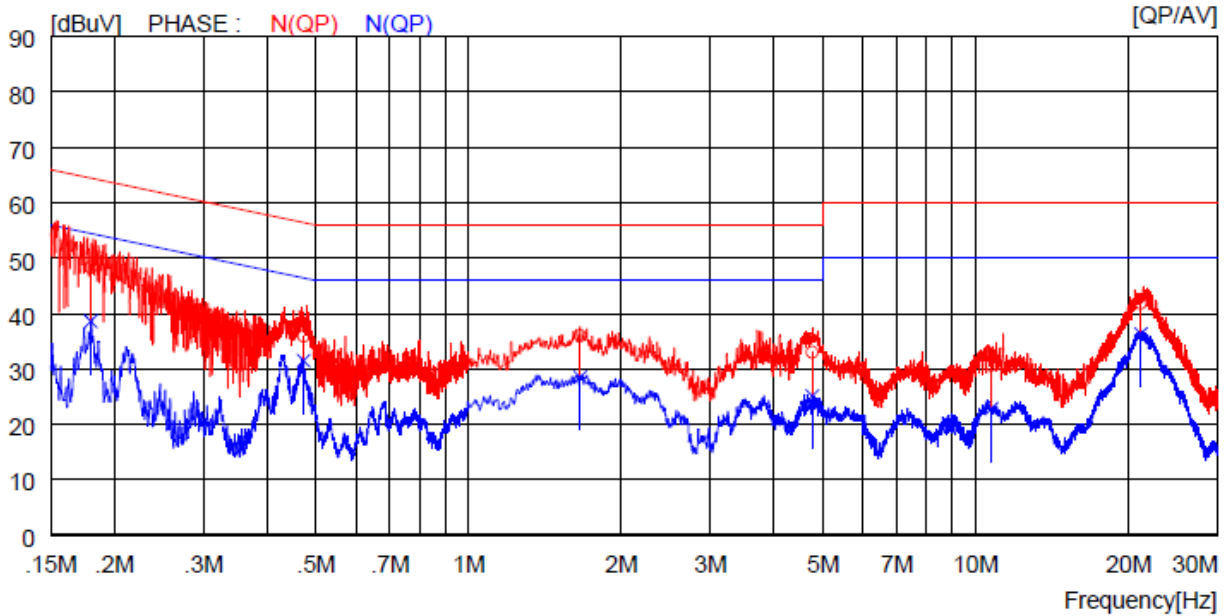
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OTC-TRF-RF-001(0)

-. Tested Line : NEUTRAL LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.18000	38.4	----	9.9	48.3	----	64.5	----	16.2	----	N(QP)
2	0.47300	26.0	----	9.9	35.9	----	56.5	----	20.6	----	N(QP)
3	1.66000	25.9	----	10.1	36.0	----	56.0	----	20.0	----	N(QP)
4	4.76400	22.9	----	10.1	33.0	----	56.0	----	23.0	----	N(QP)
5	10.75000	20.5	----	10.2	30.7	----	60.0	----	29.3	----	N(QP)
6	21.17000	31.5	----	10.4	41.9	----	60.0	----	18.1	----	N(QP)
7	0.18000	----	28.7	9.9	----	38.6	----	54.5	----	15.9	N(CAV)
8	0.47300	----	21.6	9.9	----	31.5	----	46.5	----	15.0	N(CAV)
9	1.66000	----	18.4	10.1	----	28.5	----	46.0	----	17.5	N(CAV)
10	4.76400	----	15.0	10.1	----	25.1	----	46.0	----	20.9	N(CAV)
11	10.75000	----	12.6	10.2	----	22.8	----	50.0	----	27.2	N(CAV)
12	21.17000	----	25.9	10.4	----	36.3	----	50.0	----	13.7	N(CAV)

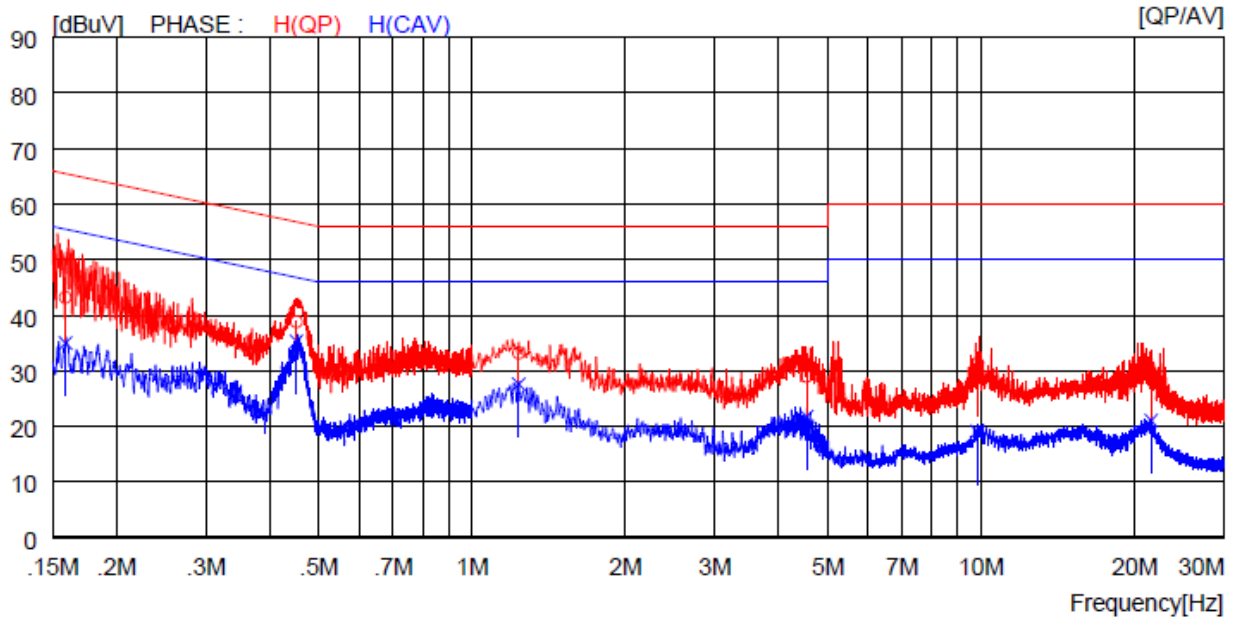
Remark: Margin (dB) = Limit – Level (Result)

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

14.7.2 Test data for Intermodulation Mode(Bluetooth + WLAN 2.4 GHz + WLAN 5 GHz)

- Resolution bandwidth : 9 kHz
- Frequency range : 0.15 MHz ~ 30 MHz
- Tested Line : LIVE LINE

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



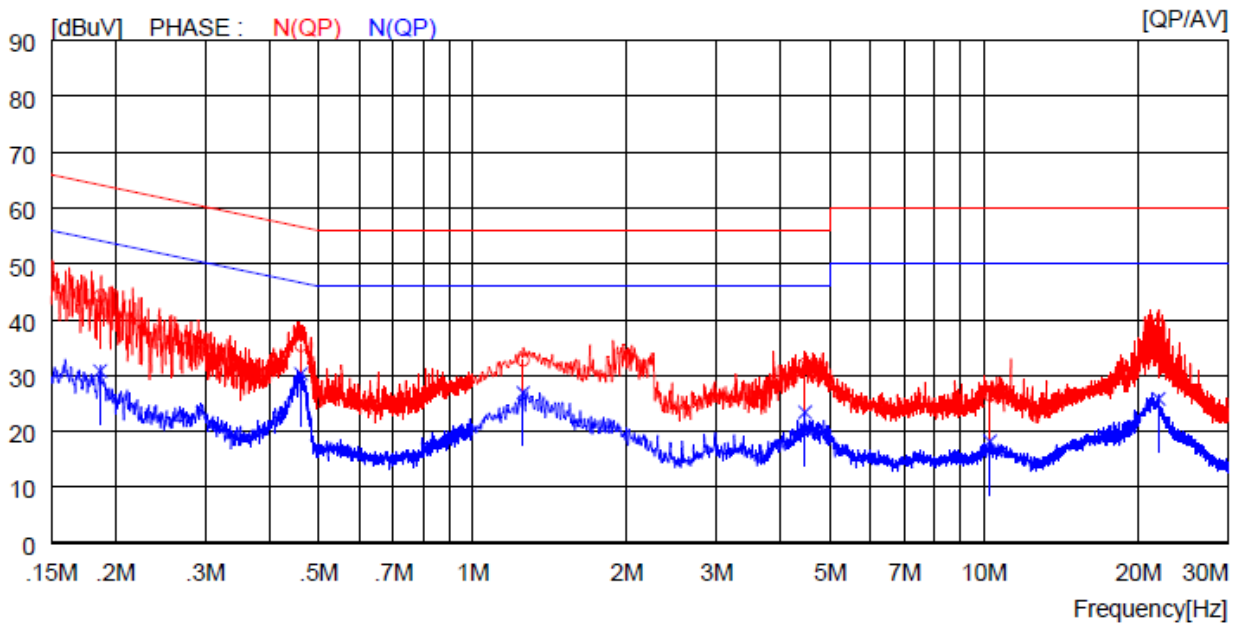
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	
1	0.15900	33.3	----	9.9	43.2	----	65.5	----	22.3	----	H (QP)
2	0.45200	28.9	----	9.9	38.8	----	56.8	----	18.0	----	H (QP)
3	1.23600	23.1	----	10.1	33.2	----	56.0	----	22.8	----	H (QP)
4	4.54400	18.9	----	10.1	29.0	----	56.0	----	27.0	----	H (QP)
5	9.83500	21.1	----	10.2	31.3	----	60.0	----	28.7	----	H (QP)
6	21.59000	19.4	----	10.4	29.8	----	60.0	----	30.2	----	H (QP)
7	0.15900	----	25.1	9.9	----	35.0	----	55.5	----	20.5	H (CAV)
8	0.45200	----	25.4	9.9	----	35.3	----	46.8	----	11.5	H (CAV)
9	1.23600	----	17.5	10.1	----	27.6	----	46.0	----	18.4	H (CAV)
10	4.54400	----	11.6	10.1	----	21.7	----	46.0	----	24.3	H (CAV)
11	9.83500	----	8.9	10.2	----	19.1	----	50.0	----	30.9	H (CAV)
12	21.59000	----	10.6	10.4	----	21.0	----	50.0	----	29.0	H (CAV)

-. Tested Line : NEUTRAL LINE

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.

LIMIT : EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Quasi-Peak Limits (Mains Ports)
EN.KN.FCC.VCCI_CISPR Pub.22 Class B, Average Limits (Mains Ports)



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	0.18700	34.4	----	9.9	44.3	----	64.2	----	19.9	----	N (QP)
2	0.46200	25.5	----	9.9	35.4	----	56.7	----	21.3	----	N (QP)
3	1.25600	22.6	----	10.1	32.7	----	56.0	----	23.3	----	N (QP)
4	4.46400	21.9	----	10.1	32.0	----	56.0	----	24.0	----	N (QP)
5	10.27000	16.3	----	10.2	26.5	----	60.0	----	33.5	----	N (QP)
6	21.94000	28.8	----	10.4	39.2	----	60.0	----	20.8	----	N (QP)
7	0.18700	----	20.9	9.9	----	30.8	----	54.2	----	23.4	N (CAV)
8	0.46200	----	20.4	9.9	----	30.3	----	46.7	----	16.4	N (CAV)
9	1.25600	----	16.8	10.1	----	26.9	----	46.0	----	19.1	N (CAV)
10	4.46400	----	13.3	10.1	----	23.4	----	46.0	----	22.6	N (CAV)
11	10.27000	----	8.0	10.2	----	18.2	----	50.0	----	31.8	N (CAV)
12	21.94000	----	15.4	10.4	----	25.8	----	50.0	----	24.2	N (CAV)

15. LIST OF TEST EQUIPMENT

Model Number	Manufacturer	Description	Serial Number	Last Cal.(Interval)
FSV40-N	Rohde & Schwarz	Signal Analyzer	102177	Apr. 16, 2021 (1Y)
ESW 44	Rohde & Schwarz	EMI Test Receiver	101851	Mar. 23, 2021 (1Y)
310N	Sonoma Instrument	Pre-Amplifier	392756	Oct. 14, 2021 (1Y)
SCU18	Rohde & Schwarz	Pre-Amplifier	102266	Jul. 14, 2021 (1Y)
PAM-840A	Com-Power	Pre-Amplifier	461339	Oct. 12, 2021 (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)
BBHA9120D	Schwarzbeck	Horn Antenna	9120D-1366	Jul. 20, 2021 (1Y)
BBHA9170	Schwarzbeck	Horn Antenna	BBHA9170178	Jan. 07, 2021(1Y)
HPF 3GHz	Rohde & Schwarz	High Pass Filter	N/A	Feb. 08, 2021 (1Y)
ESCI	Rohde & Schwarz	EMI TEST RECEIVER	101012	Oct. 20, 2021 (1Y)
NSLK8126	Schwarzbeck	AMN	8126-404	Mar. 16, 2021 (1Y)
ESH3-Z2	Rohde & Schwarz	PULSE LIMITER	100655	Mar. 15, 2021 (1Y)