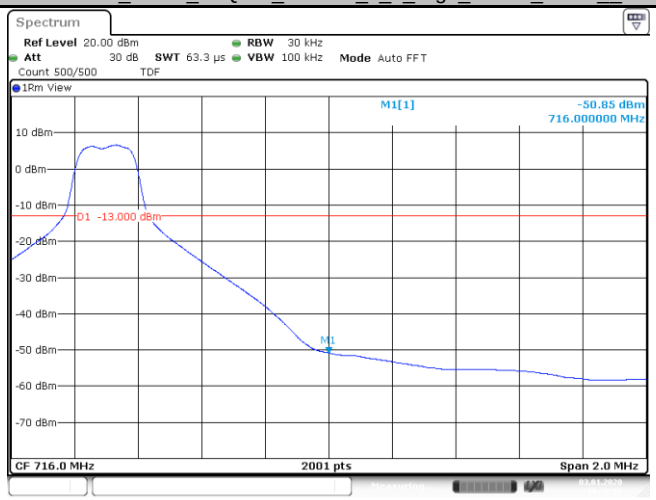
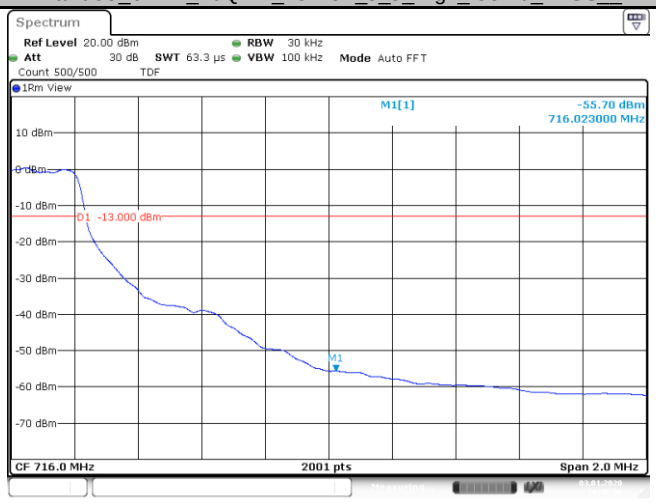
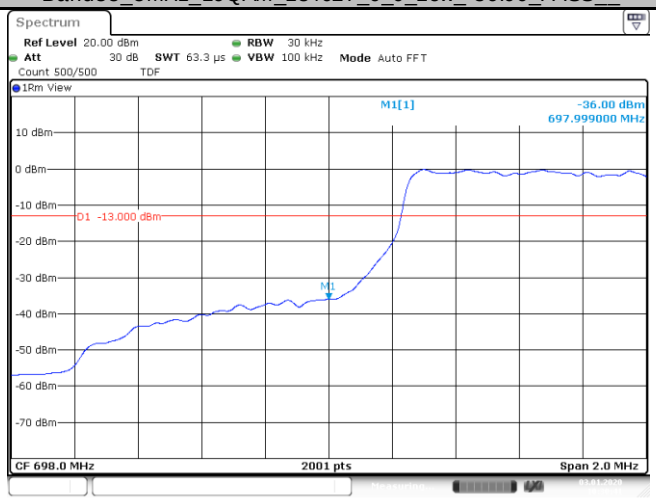
Band85_5MHz_16QAM_134157_1_5_High_-50.85_PASS__



Band85_5MHz_16QAM_134157_3_3_High_-55.70_PASS__



Band85_5MHz_16QAM_134027_6_0_Low_-36.00_PASS__



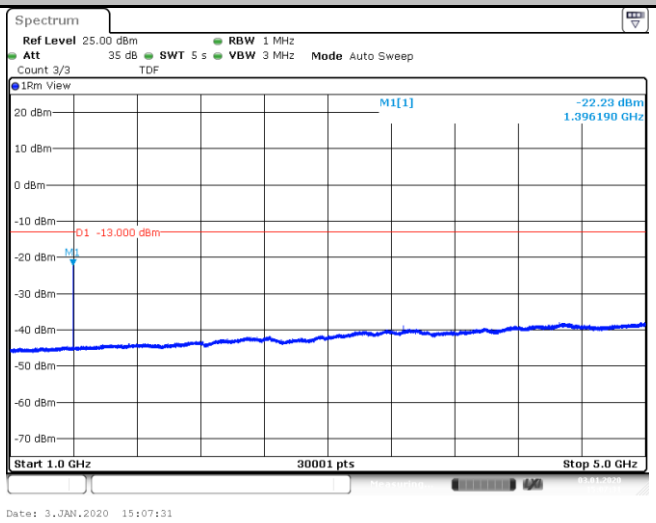
Appendix J.5: Conducted Spurious Emission for M1

Test Result

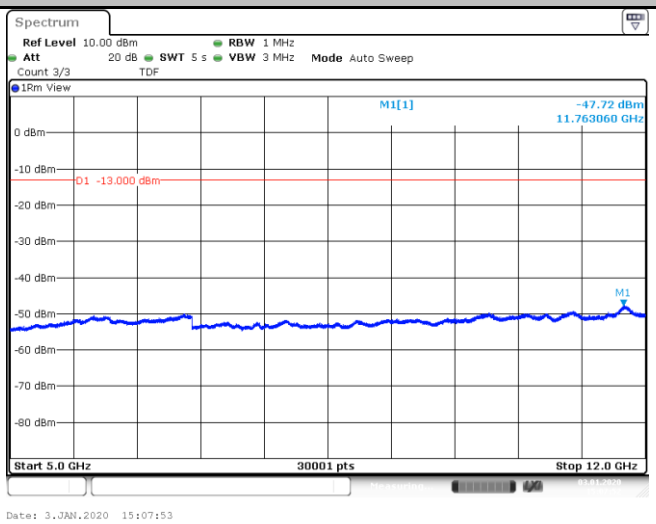
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band85	5MHz	QPSK	134027	1	0	Low	1000	5000	-22.23	PASS
Band85	5MHz	QPSK	134027	1	0	Low	5000	12000	-47.72	PASS
Band85	5MHz	QPSK	134027	1	0	Low	12000	26500	-41.68	PASS
Band85	5MHz	QPSK	134027	1	0	Low	30	1000	-35.35	PASS
Band85	5MHz	QPSK	134092	1	0	Low	5000	12000	-47.68	PASS
Band85	5MHz	QPSK	134092	1	0	Low	1000	5000	-24.2	PASS
Band85	5MHz	QPSK	134092	1	0	Low	30	1000	-35.58	PASS
Band85	5MHz	QPSK	134092	1	0	Low	12000	26500	-41.43	PASS
Band85	5MHz	QPSK	134157	1	5	High	5000	12000	-47.7	PASS
Band85	5MHz	QPSK	134157	1	5	High	1000	5000	-25.7	PASS
Band85	5MHz	QPSK	134157	1	5	High	12000	26500	-41.61	PASS
Band85	5MHz	QPSK	134157	1	5	High	30	1000	-35.44	PASS
Band85	5MHz	QPSK	134157	3	3	High	12000	26500	-41.58	PASS
Band85	5MHz	QPSK	134157	3	3	High	5000	12000	-47.73	PASS
Band85	5MHz	QPSK	134157	3	3	High	1000	5000	-28.64	PASS
Band85	5MHz	QPSK	134157	3	3	High	30	1000	-35.11	PASS
Band85	5MHz	QPSK	134027	6	0	Low	5000	12000	-47.63	PASS
Band85	5MHz	QPSK	134027	6	0	Low	12000	26500	-41.5	PASS
Band85	5MHz	QPSK	134027	6	0	Low	1000	5000	-23.33	PASS
Band85	5MHz	QPSK	134027	6	0	Low	30	1000	-35.97	PASS
Band85	5MHz	QPSK	134092	6	0	Low	5000	12000	-47.75	PASS
Band85	5MHz	QPSK	134092	6	0	Low	1000	5000	-32.64	PASS
Band85	5MHz	QPSK	134092	6	0	Low	30	1000	-34.93	PASS
Band85	5MHz	QPSK	134092	6	0	Low	12000	26500	-41.68	PASS
Band85	5MHz	16QAM	134027	1	0	Low	12000	26500	-41.59	PASS
Band85	5MHz	16QAM	134027	1	0	Low	30	1000	-35.42	PASS
Band85	5MHz	16QAM	134027	1	0	Low	1000	5000	-14.65	PASS
Band85	5MHz	16QAM	134027	1	0	Low	5000	12000	-47.71	PASS
Band85	5MHz	16QAM	134092	1	0	Low	30	1000	-36.19	PASS
Band85	5MHz	16QAM	134092	1	0	Low	1000	5000	-23.58	PASS
Band85	5MHz	16QAM	134092	1	0	Low	12000	26500	-41.58	PASS
Band85	5MHz	16QAM	134092	1	0	Low	5000	12000	-47.81	PASS
Band85	5MHz	16QAM	134157	1	5	High	12000	26500	-41.65	PASS
Band85	5MHz	16QAM	134157	1	5	High	5000	12000	-47.84	PASS
Band85	5MHz	16QAM	134157	1	5	High	1000	5000	-24.1	PASS
Band85	5MHz	16QAM	134157	1	5	High	30	1000	-35.94	PASS
Band85	5MHz	16QAM	134157	3	3	High	1000	5000	-27.02	PASS
Band85	5MHz	16QAM	134157	3	3	High	30	1000	-35.32	PASS
Band85	5MHz	16QAM	134157	3	3	High	5000	12000	-47.81	PASS
Band85	5MHz	16QAM	134157	3	3	High	12000	26500	-41.6	PASS
Band85	5MHz	16QAM	134027	6	0	Low	1000	5000	-21.97	PASS
Band85	5MHz	16QAM	134027	6	0	Low	5000	12000	-47.33	PASS
Band85	5MHz	16QAM	134027	6	0	Low	12000	26500	-41.75	PASS
Band85	5MHz	16QAM	134027	6	0	Low	30	1000	-35.57	PASS
Band85	5MHz	16QAM	134092	6	0	Low	1000	5000	-29.03	PASS
Band85	5MHz	16QAM	134092	6	0	Low	5000	12000	-47.71	PASS
Band85	5MHz	16QAM	134092	6	0	Low	30	1000	-35.98	PASS
Band85	5MHz	16QAM	134092	6	0	Low	12000	26500	-41.44	PASS

Test Graphs

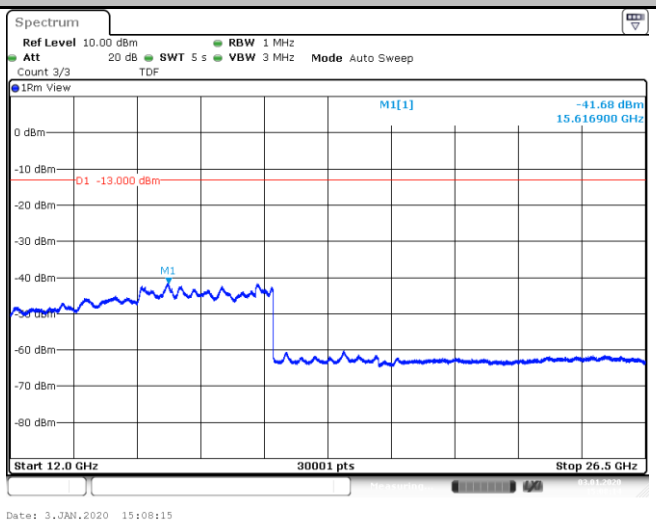
Band85_5MHz_QPSK_134027_1_0_Low_1000_5000_-22.23_PASS__



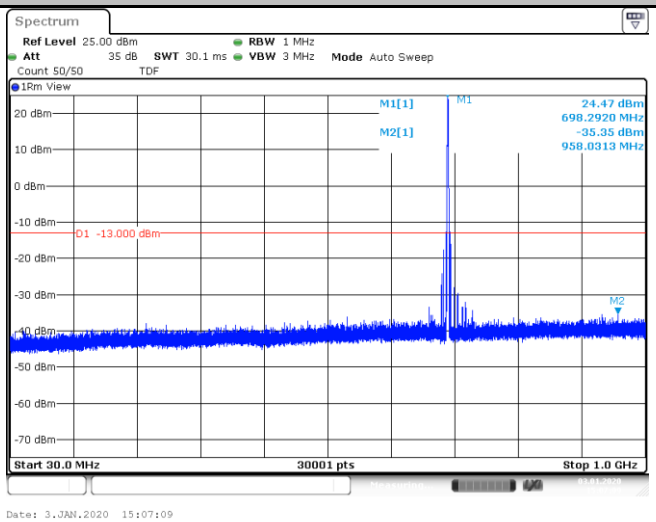
Band85_5MHz_QPSK_134027_1_0_Low_5000_12000_-47.72_PASS__



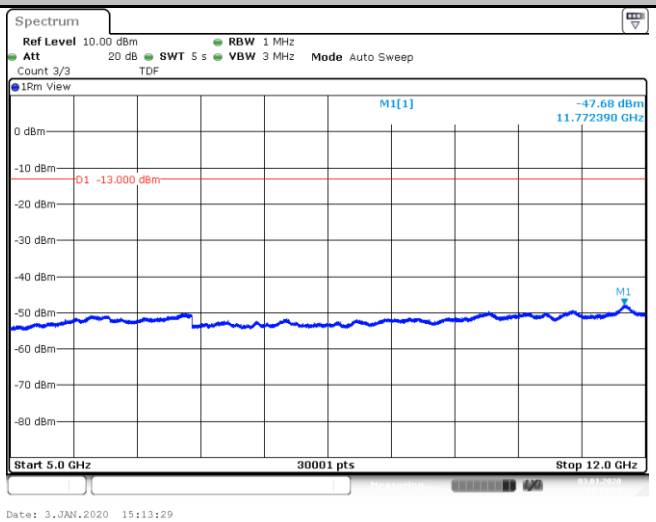
Band85_5MHz_QPSK_134027_1_0_Low_12000_26500_-41.68_PASS__



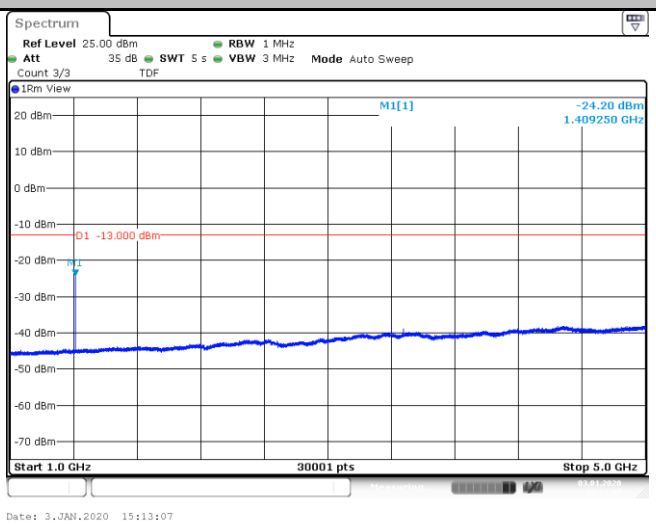
Band85_5MHz_QPSK_134027_1_0_Low_30_1000_-35.35_PASS__



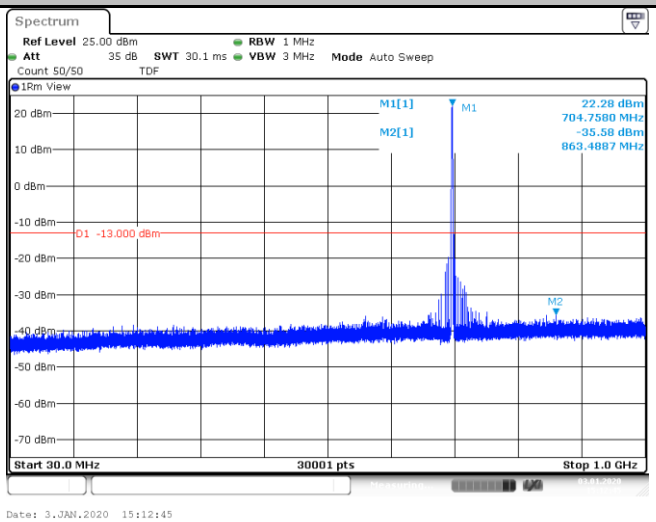
Band85_5MHz_QPSK_134092_1_0_Low_5000_12000_-47.68_PASS__



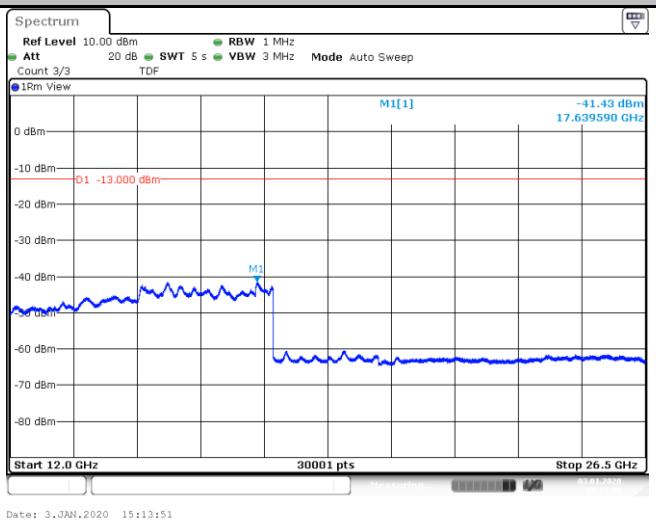
Band85_5MHz_QPSK_134092_1_0_Low_1000_5000_-24.2_PASS__



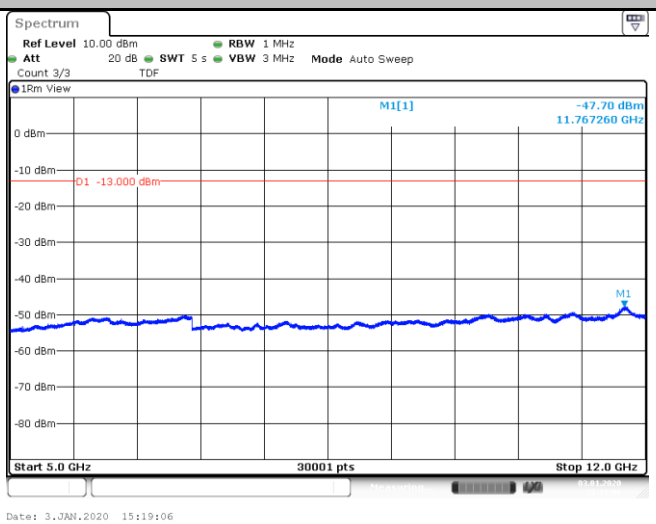
Band85_5MHz_QPSK_134092_1_0_Low_30_1000_-35.58_PASS__



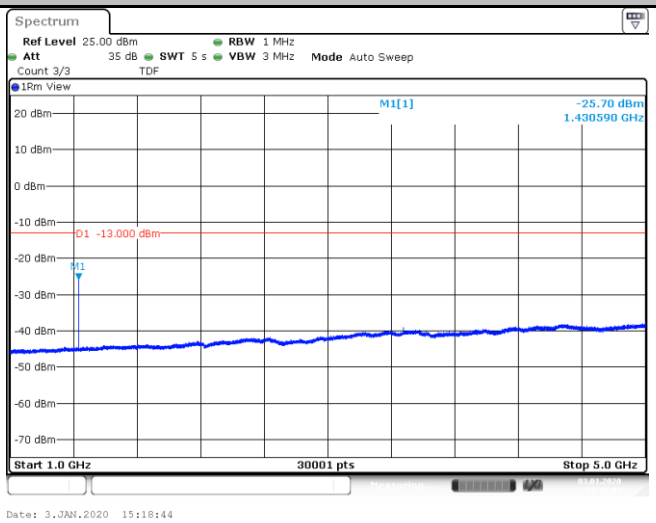
Band85_5MHz_QPSK_134092_1_0_Low_12000_26500_-41.43_PASS__



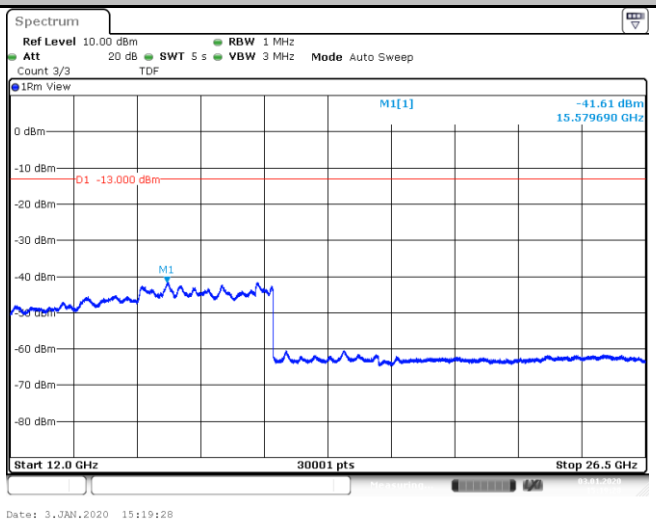
Band85_5MHz_QPSK_134157_1_5_High_5000_12000_-47.7_PASS__



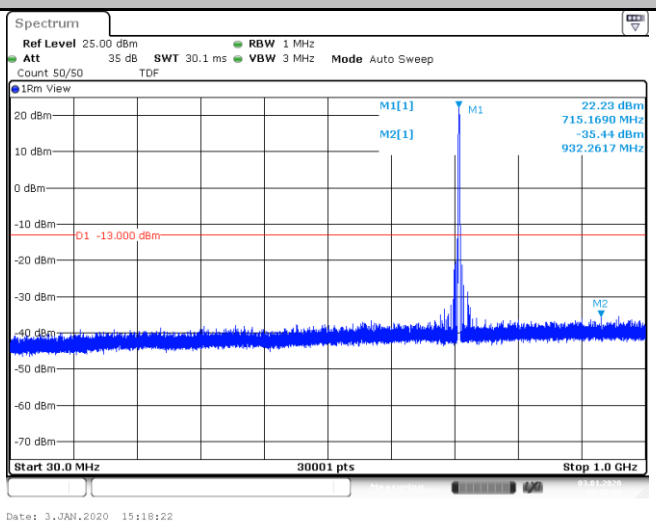
Band85_5MHz_QPSK_134157_1_5_High_1000_5000_-25.7_PASS__



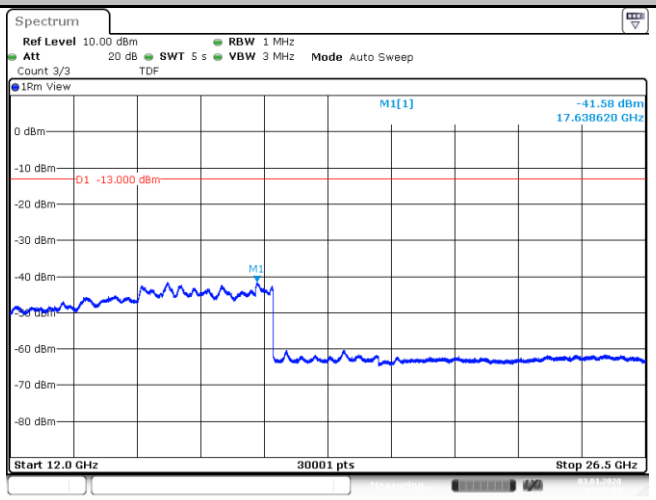
Band85_5MHz_QPSK_134157_1_5_High_12000_26500_-41.61_PASS__



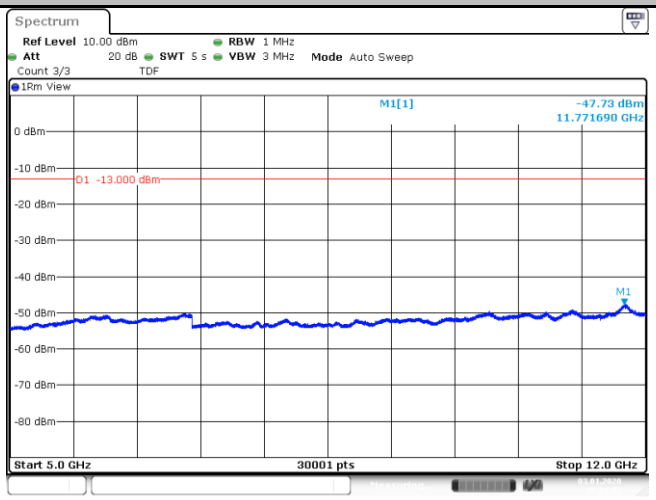
Band85_5MHz_QPSK_134157_1_5_High_30_1000_-35.44_PASS__



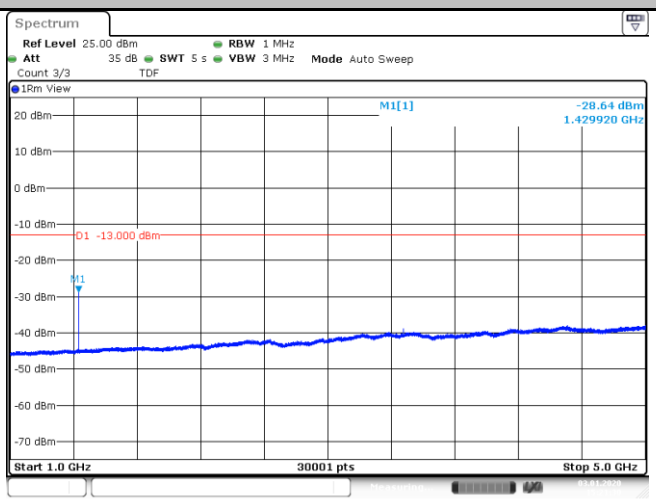
Band85_5MHz_QPSK_134157_3_3_High_12000_26500_-41.58_PASS__



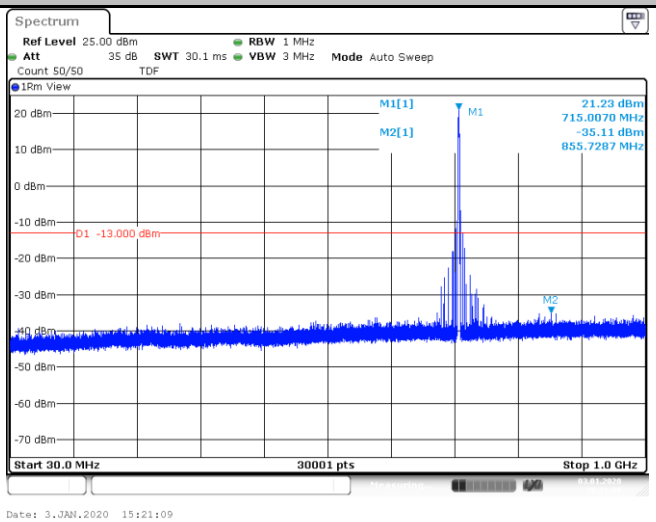
Band85_5MHz_QPSK_134157_3_3_High_5000_12000_-47.73_PASS__



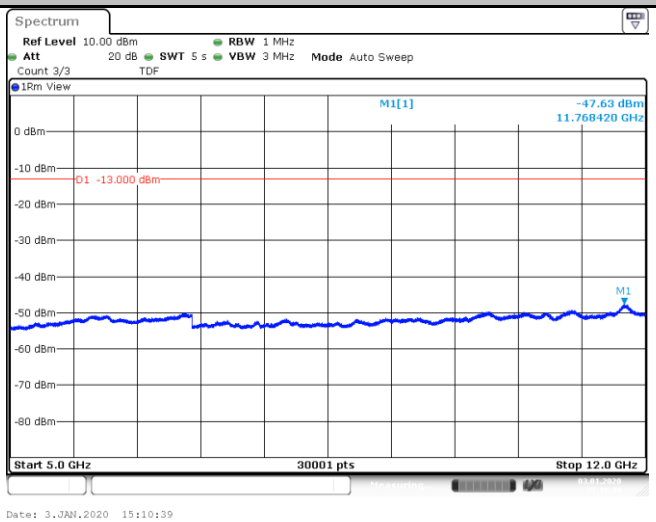
Band85_5MHz_QPSK_134157_3_3_High_1000_5000_-28.64_PASS__



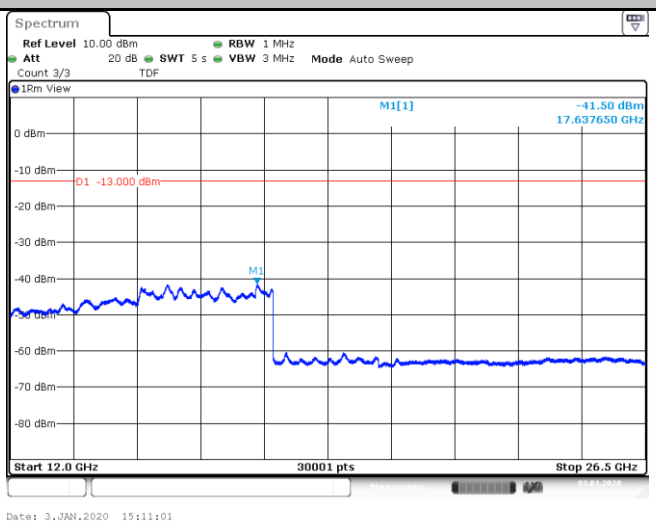
Band85_5MHz_QPSK_134157_3_3_High_30_1000_-35.11_PASS__



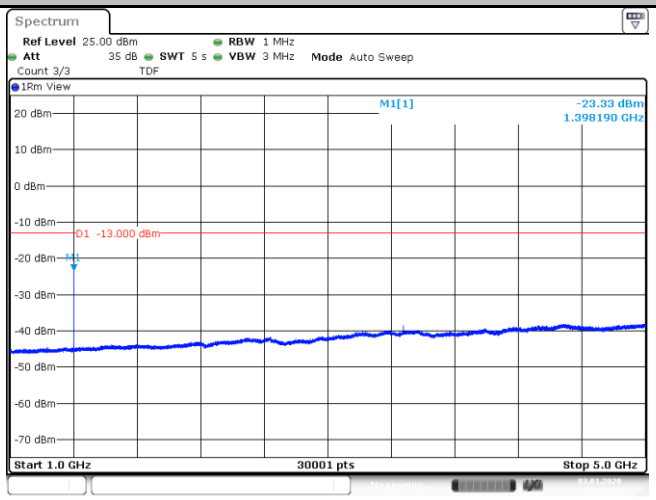
Band85_5MHz_QPSK_134027_6_0_Low_5000_12000_-47.63_PASS__



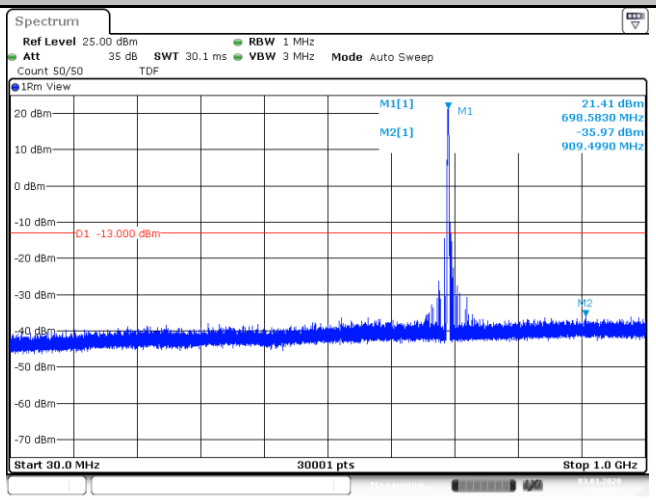
Band85_5MHz_QPSK_134027_6_0_Low_12000_26500_-41.5_PASS__



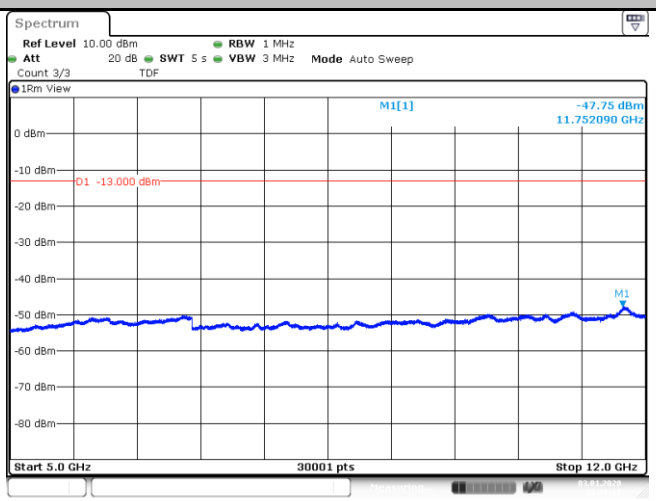
Band85_5MHz_QPSK_134027_6_0_Low_1000_5000_-23.33_PASS__



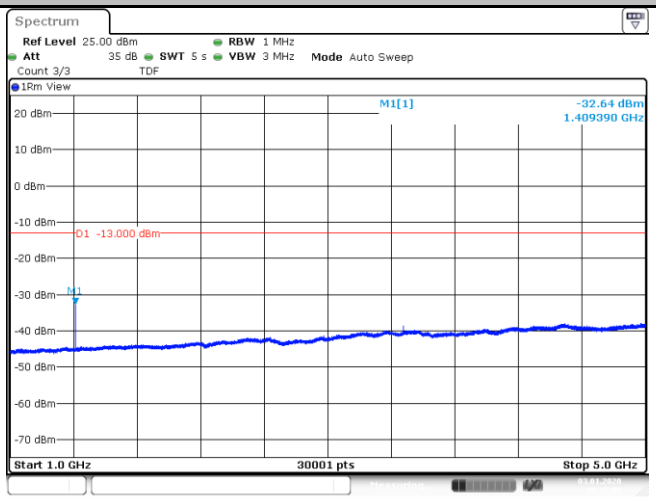
Band85_5MHz_QPSK_134027_6_0_Low_30_1000_-35.97_PASS__



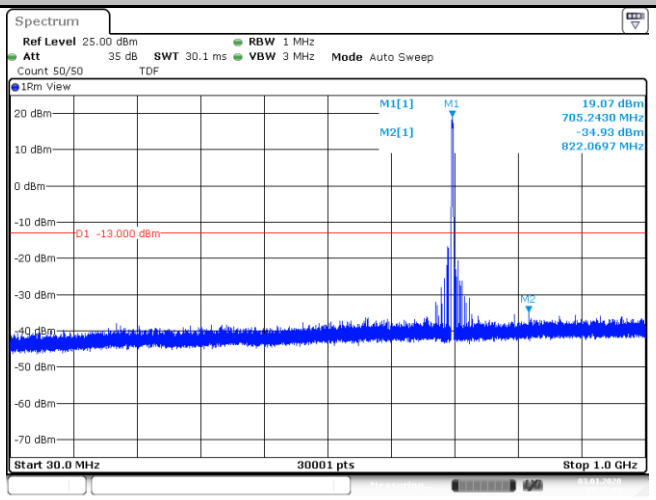
Band85_5MHz_QPSK_134092_6_0_Low_5000_12000_-47.75_PASS__



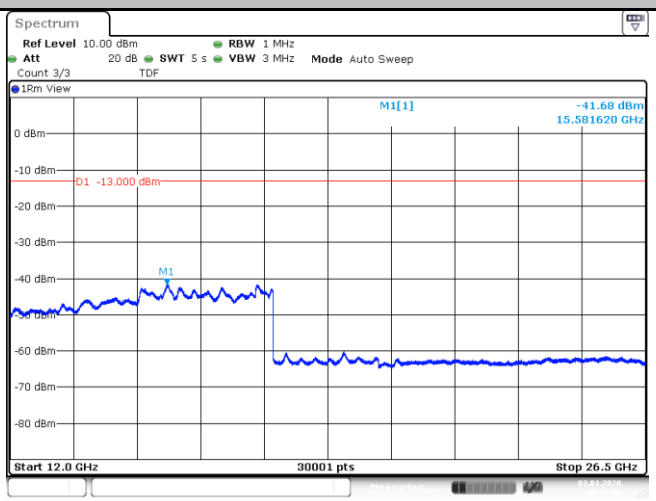
Band85_5MHz_QPSK_134092_6_0_Low_1000_5000_-32.64_PASS__



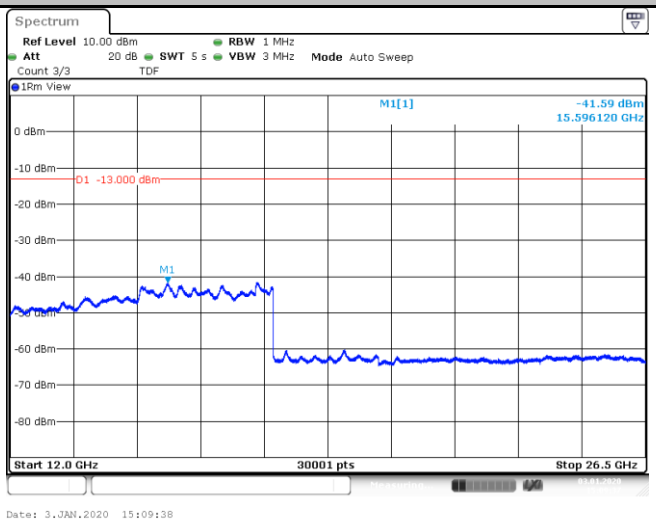
Band85_5MHz_QPSK_134092_6_0_Low_30_1000_-34.93_PASS__



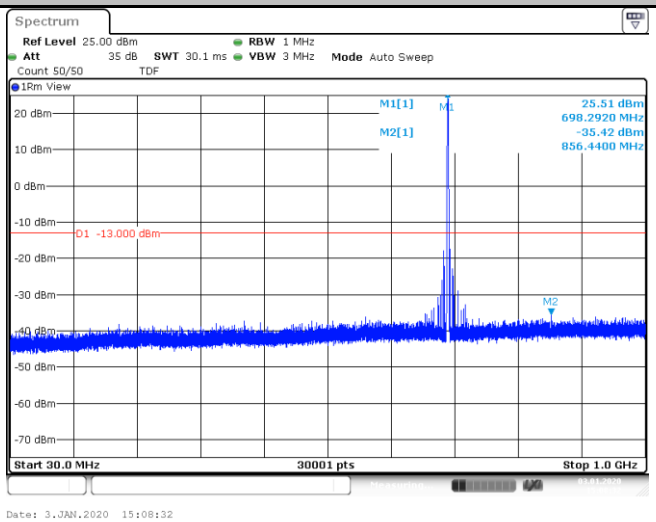
Band85_5MHz_QPSK_134092_6_0_Low_12000_26500_-41.68_PASS__



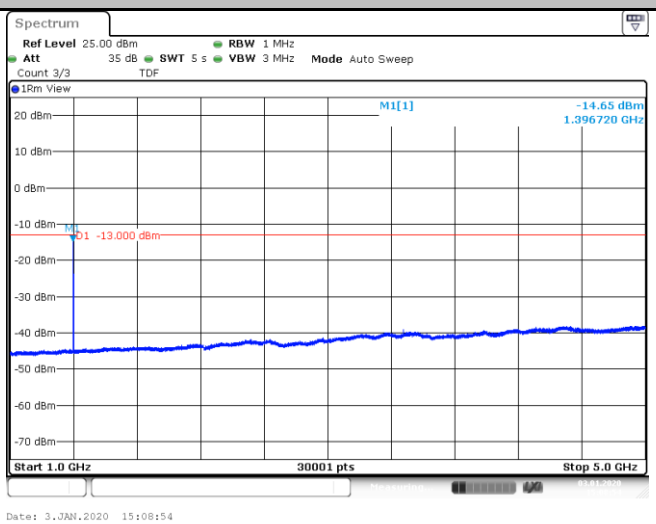
Band85_5MHz_16QAM_134027_1_0_Low_12000_26500_-41.59_PASS__



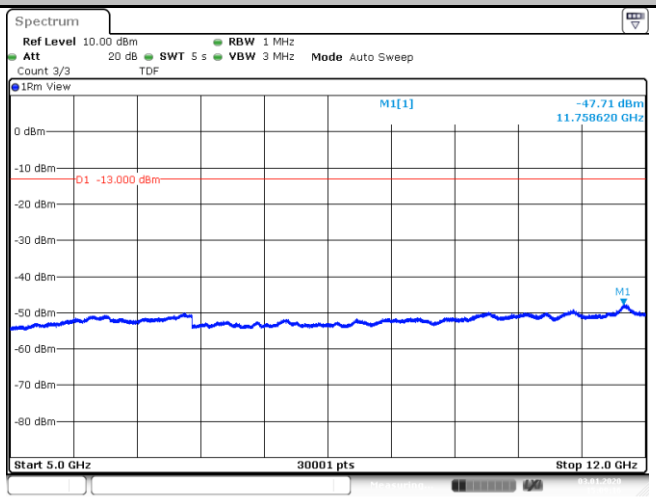
Band85_5MHz_16QAM_134027_1_0_Low_30_1000_-35.42_PASS__



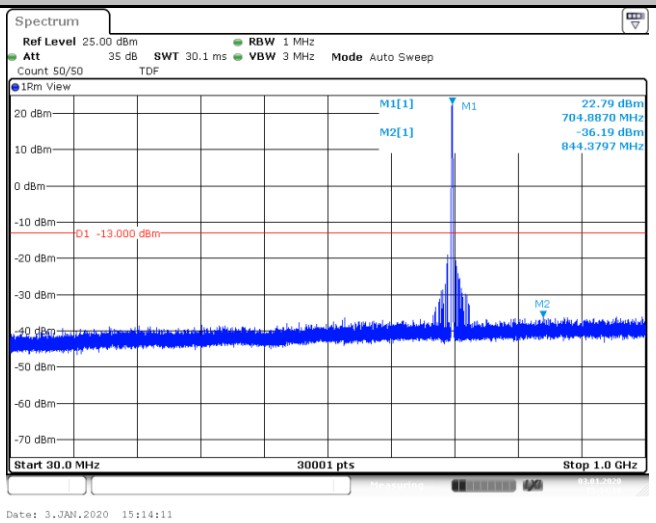
Band85_5MHz_16QAM_134027_1_0_Low_1000_5000_-14.65_PASS__



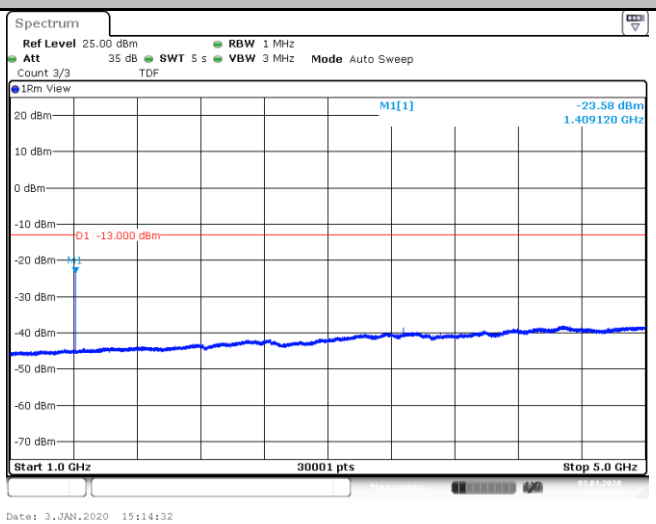
Band85_5MHz_16QAM_134027_1_0_Low_5000_12000_-47.71_PASS__



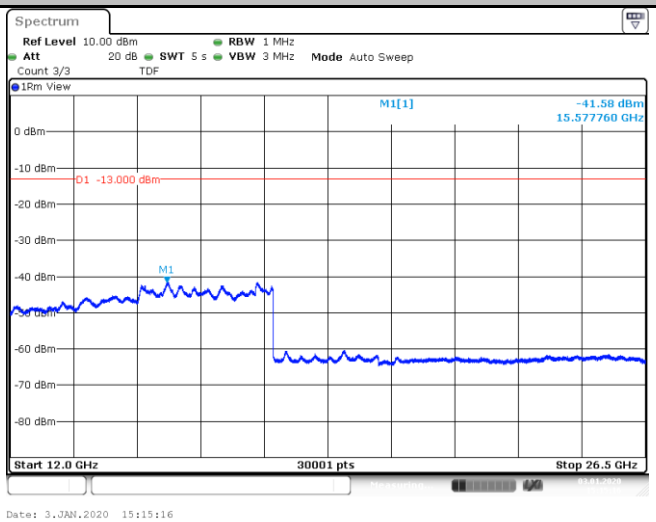
Band85_5MHz_16QAM_134092_1_0_Low_30_1000_-36.19_PASS__



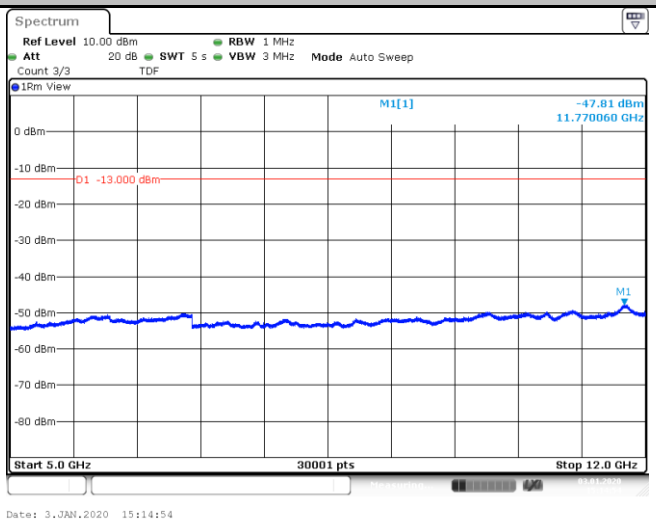
Band85_5MHz_16QAM_134092_1_0_Low_1000_5000_-23.58_PASS__



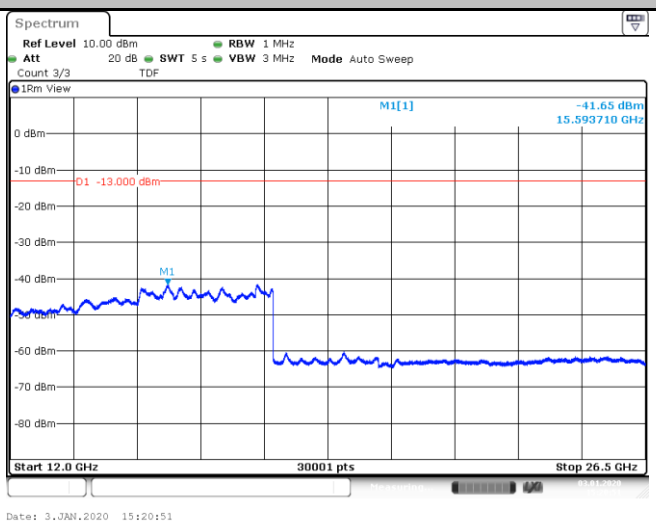
Band85_5MHz_16QAM_134092_1_0_Low_12000_26500_-41.58_PASS__



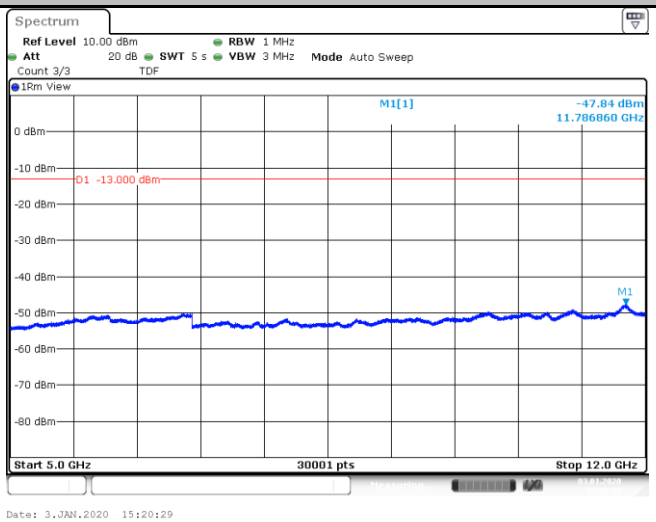
Band85_5MHz_16QAM_134092_1_0_Low_5000_12000_-47.81_PASS__



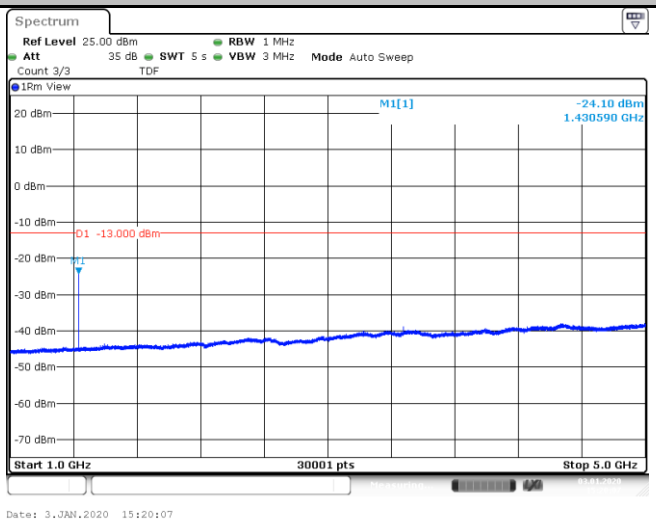
Band85_5MHz_16QAM_134157_1_5_High_12000_26500_-41.65_PASS__



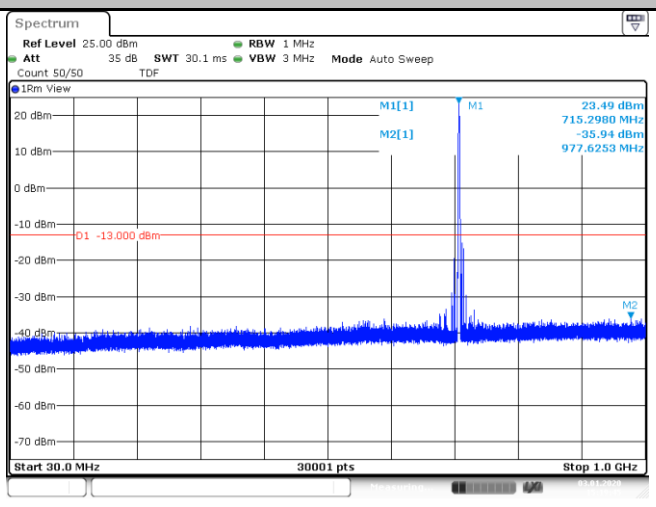
Band85_5MHz_16QAM_134157_1_5_High_5000_12000_-47.84_PASS__



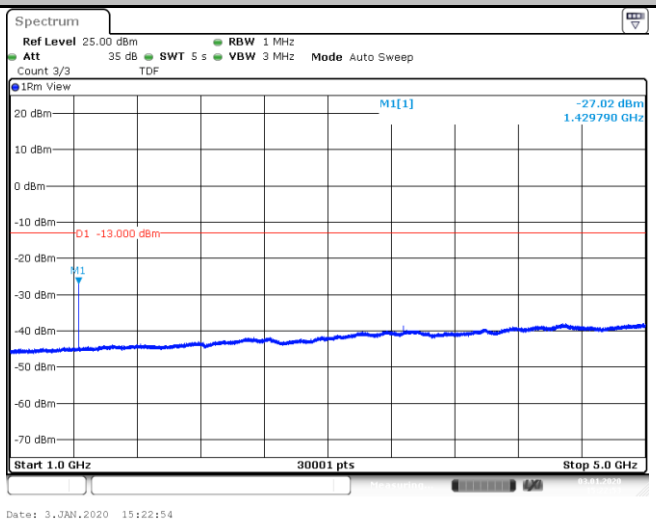
Band85_5MHz_16QAM_134157_1_5_High_1000_5000_-24.1_PASS__



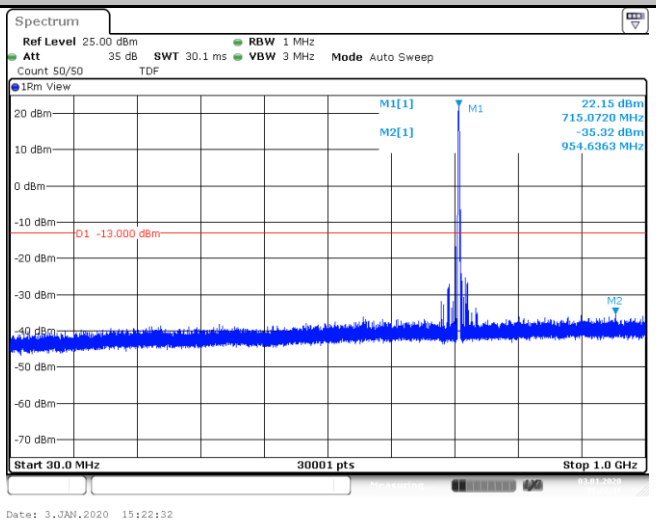
Band85_5MHz_16QAM_134157_1_5_High_30_1000_-35.94_PASS__



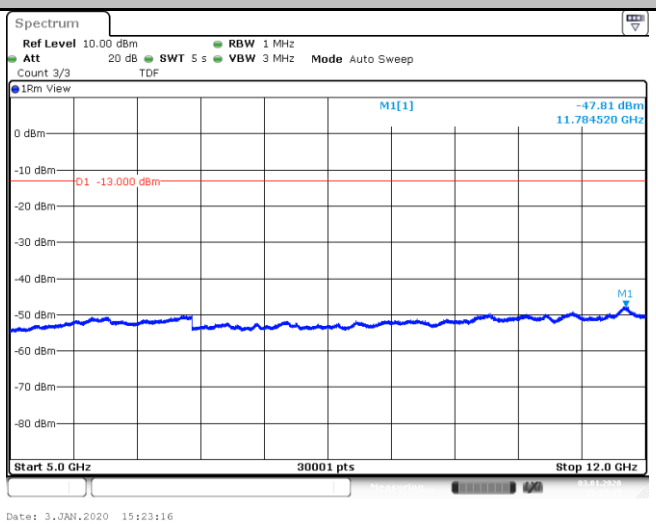
Band85_5MHz_16QAM_134157_3_3_High_1000_5000_-27.02_PASS__

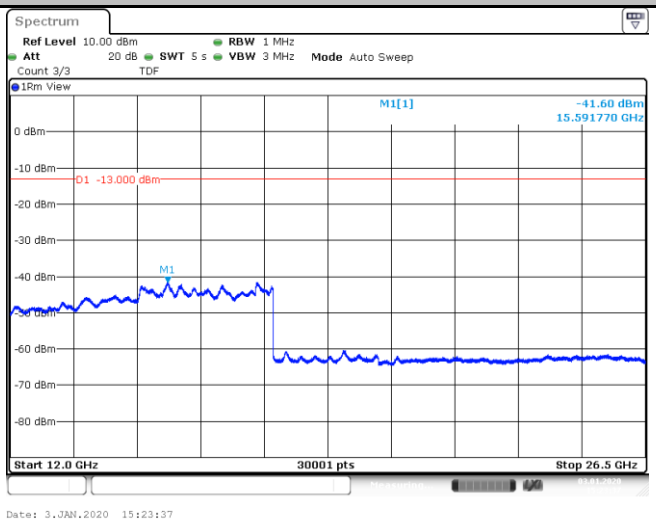


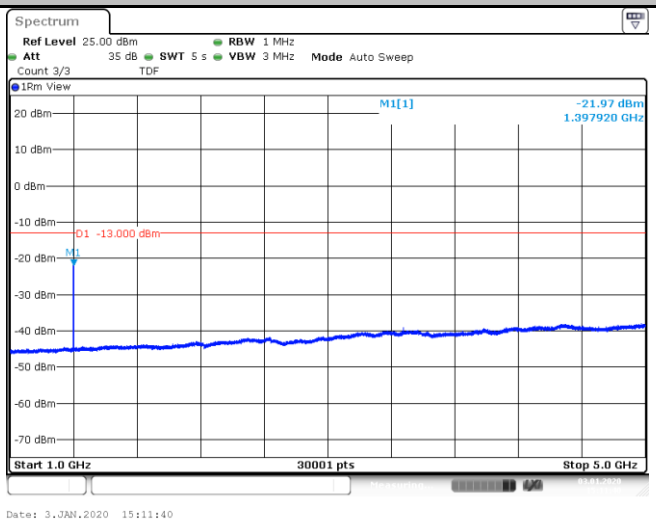
Band85_5MHz_16QAM_134157_3_3_High_30_1000_-35.32_PASS__

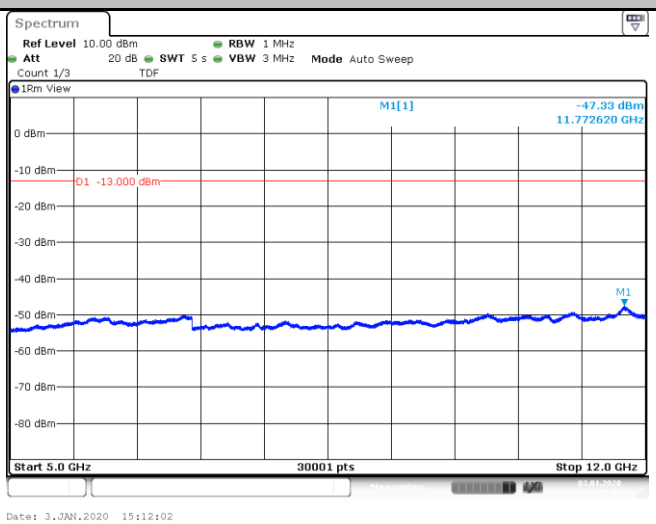


Band85_5MHz_16QAM_134157_3_3_High_5000_12000_-47.81_PASS__

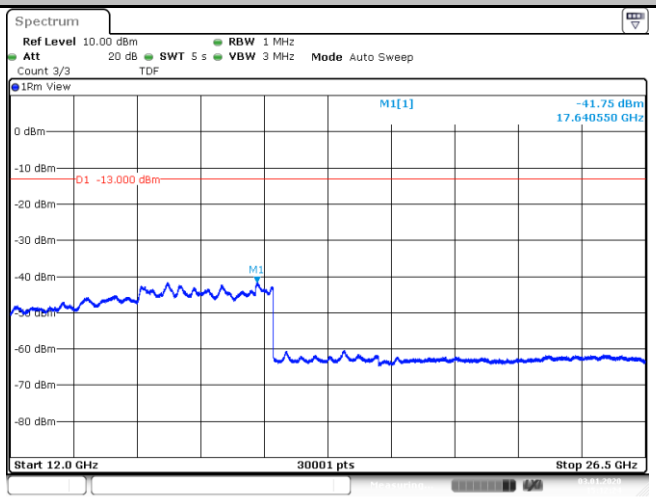


Band85_5MHz_16QAM_134157_3_3_High_12000_26500_-41.6_PASS__


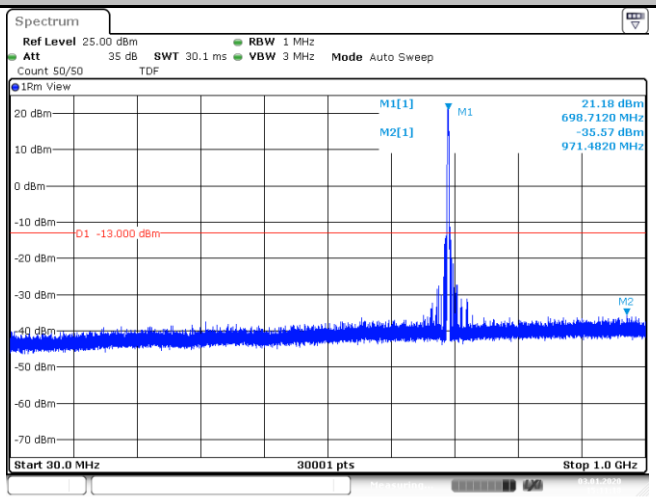
Band85_5MHz_16QAM_134027_6_0_Low_1000_5000_-21.97_PASS__


Band85_5MHz_16QAM_134027_6_0_Low_5000_12000_-47.33_PASS__


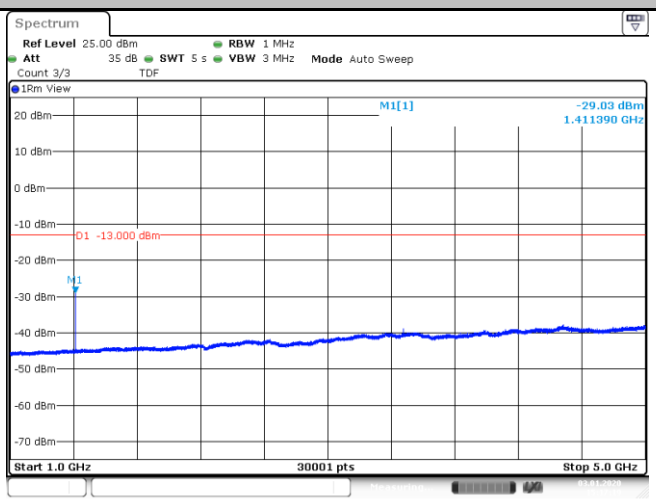
Band85_5MHz_16QAM_134027_6_0_Low_12000_26500_-41.75_PASS__



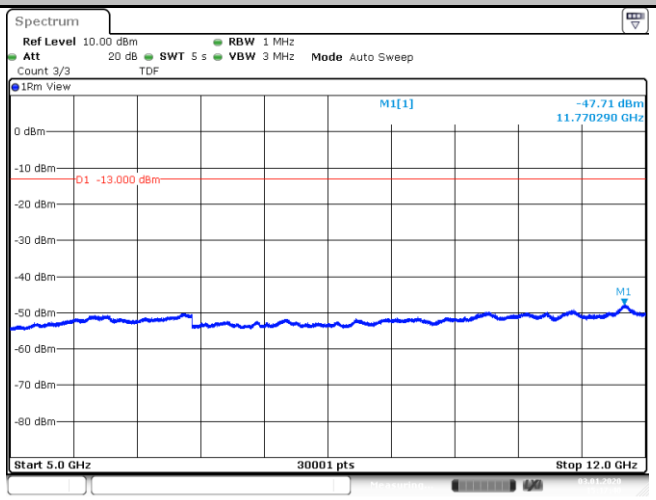
Band85_5MHz_16QAM_134027_6_0_Low_30_1000_-35.57_PASS__



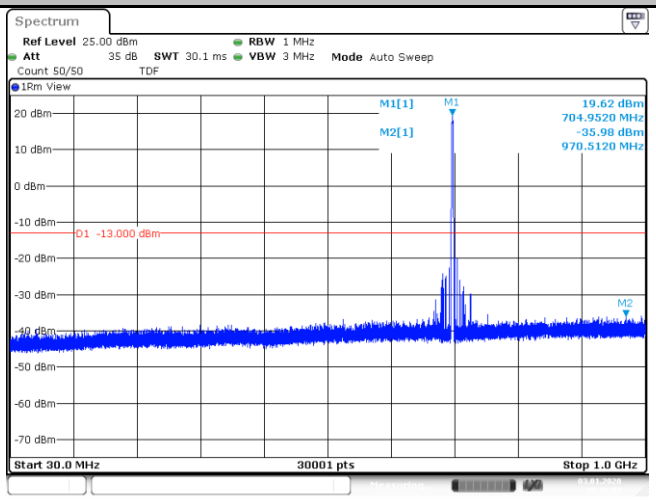
Band85_5MHz_16QAM_134092_6_0_Low_1000_5000_-29.03_PASS__



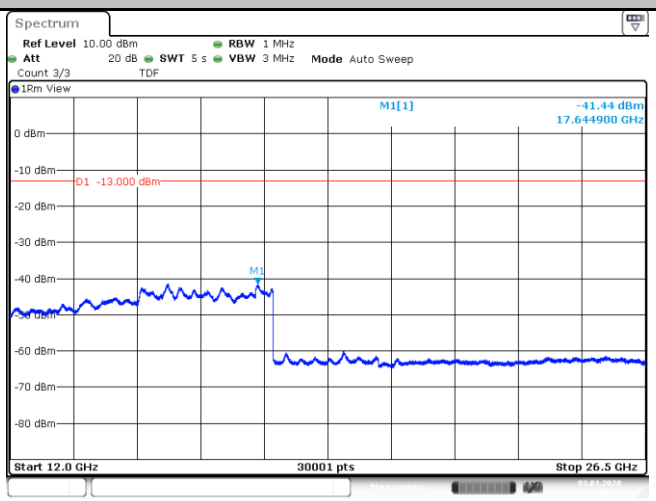
Band85_5MHz_16QAM_134092_6_0_Low_5000_12000_-47.71_PASS__



Band85_5MHz_16QAM_134092_6_0_Low_30_1000_-35.98_PASS__



Band85_5MHz_16QAM_134092_6_0_Low_12000_26500_-41.44_PASS__



Appendix J.6: Frequency Stability for M1

Test Result

Voltage												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band85	5MHz	QPSK	134092	1	0	Low	HV	NT	5.56	0.007864	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	LV	NT	5.87	0.008303	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	NT	5.51	0.007793	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	HV	NT	8.67	0.012263	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	LV	NT	9.56	0.013522	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	NT	10.99	0.015545	±2.5	PASS

Temperature												
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band85	5MHz	QPSK	134092	1	0	Low	NV	85	5.52	0.007808	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	-30	4.98	0.007044	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	-20	5.36	0.007581	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	-10	5.58	0.007893	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	0	5.87	0.008303	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	10	4.82	0.006818	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	20	6.45	0.009123	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	30	5.34	0.007553	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	40	5.24	0.007412	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	50	5.36	0.007581	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	60	5.88	0.008317	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	70	5.56	0.007864	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	-40	5.19	0.007341	±2.5	PASS
Band85	5MHz	QPSK	134092	1	0	Low	NV	80	6.31	0.008925	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	85	9.43	0.013338	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	-30	10.63	0.015035	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	-20	9.68	0.013692	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	-10	9.16	0.012956	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	0	11.86	0.016775	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	10	11.23	0.015884	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	20	8.11	0.011471	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	30	8.80	0.012447	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	40	9.14	0.012928	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	50	9.64	0.013635	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	60	10.19	0.014413	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	70	8.27	0.011697	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	80	8.50	0.012023	±2.5	PASS
Band85	5MHz	16QAM	134092	1	0	Low	NV	-40	10.63	0.015035	±2.5	PASS

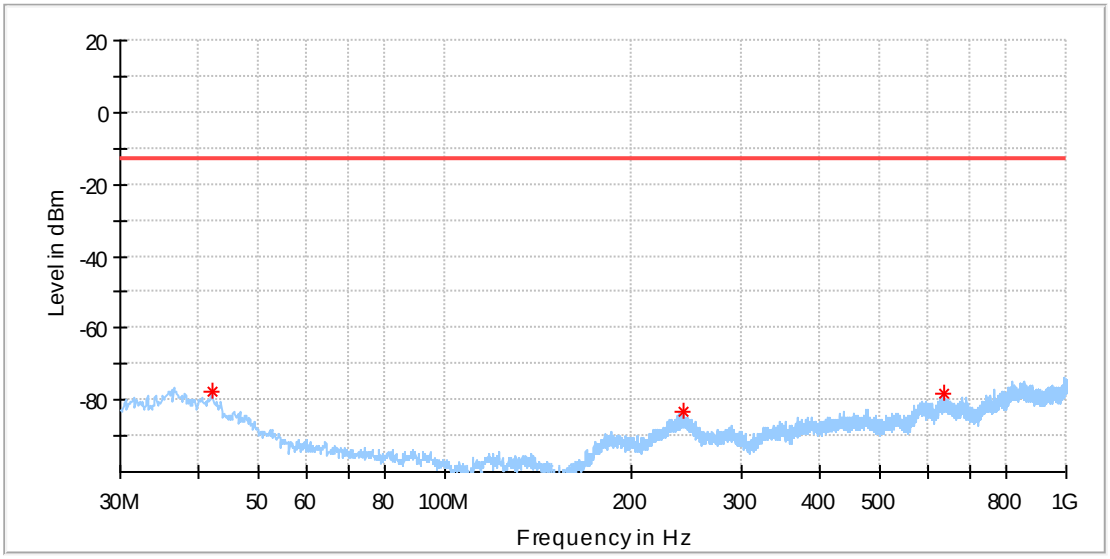
Appendix K: Test Results of Field Strength of Spurious Radiation for eMTC operation

Appendix K.1: Field Strength of Spurious Radiation for Band 2

Test Result of QPSK modulation
Below 1 GHz

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

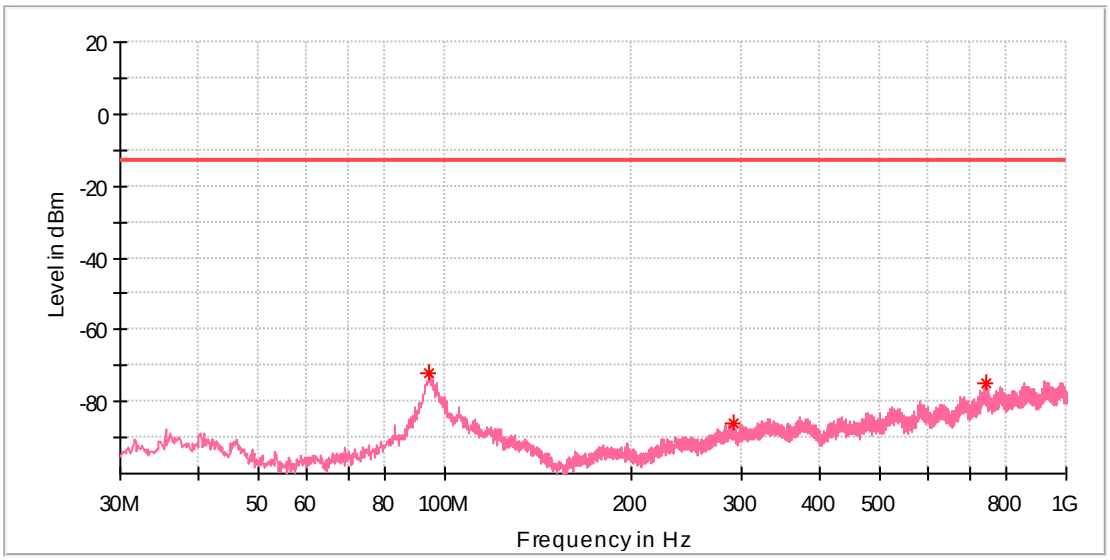


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.125000	-77.91	-13.00	64.91	100.0	H	359.0	-112.3
241.338750	-83.40	-13.00	70.40	100.0	H	66.0	-110.2
635.158750	-78.35	-13.00	65.35	100.0	H	179.0	-104.8

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



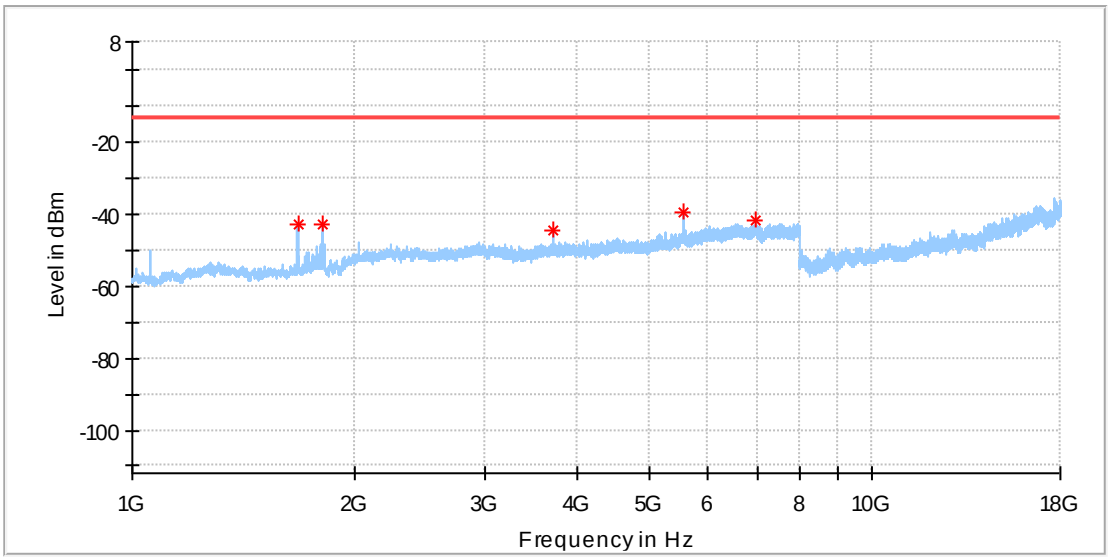
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
94.141250	-72.22	-13.00	59.22	100.0	V	45.0	-99.7
290.566250	-86.29	-13.00	73.29	100.0	V	247.0	-112.5
742.586250	-74.74	-13.00	61.74	100.0	V	86.0	-102.0

Above 1 GHz
Low Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

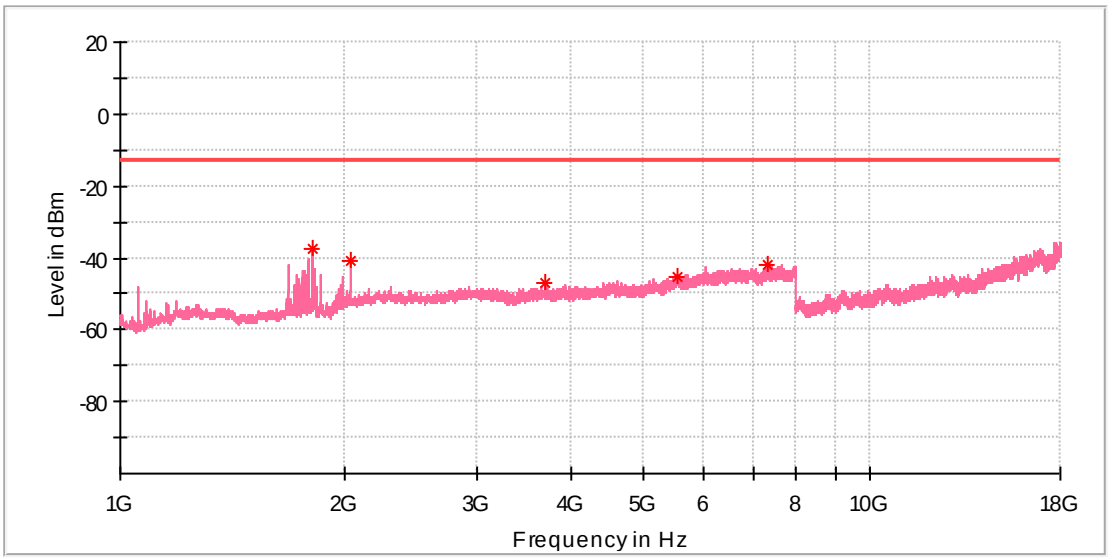


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1674.000000	-43.04	-13.00	30.04	100.0	H	274.0	-92.5
1811.500000	-42.93	-13.00	29.93	100.0	H	95.0	-90.2
3700.000000	-44.64	-13.00	31.64	100.0	H	316.0	-86.7
5550.500000	-39.17	-13.00	26.17	100.0	H	135.0	-83.2
6970.500000	-41.56	-13.00	28.56	100.0	H	288.0	-80.8

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



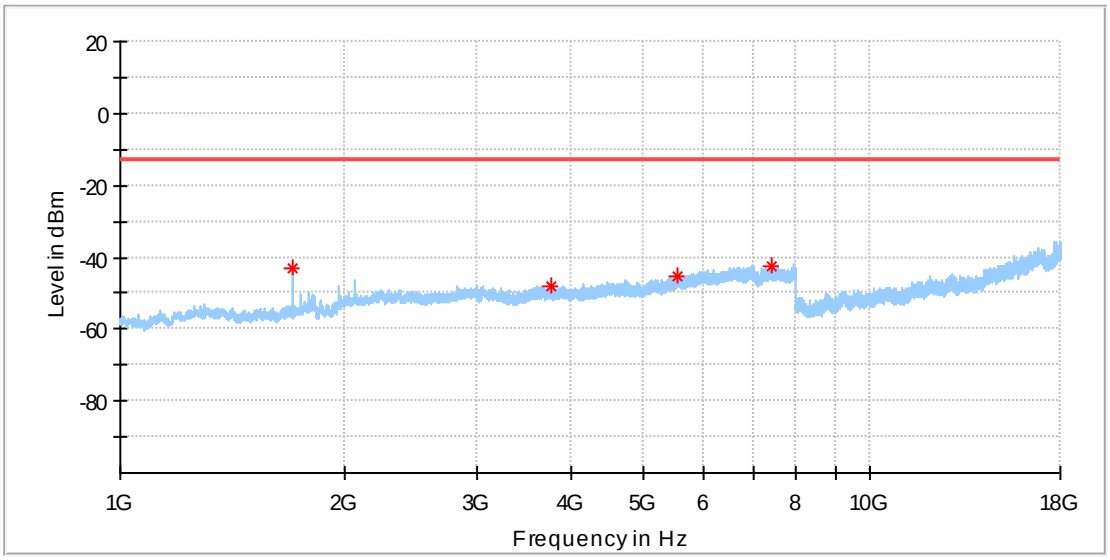
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1804.500000	-37.70	-13.00	24.70	100.0	V	172.0	-90.6
2026.500000	-40.95	-13.00	27.95	100.0	V	103.0	-88.7
3700.500000	-46.87	-13.00	33.87	100.0	V	0.0	-86.7
5559.500000	-45.34	-13.00	32.34	100.0	V	16.0	-83.2
7324.500000	-41.84	-13.00	28.84	100.0	V	280.0	-79.8

Mid Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

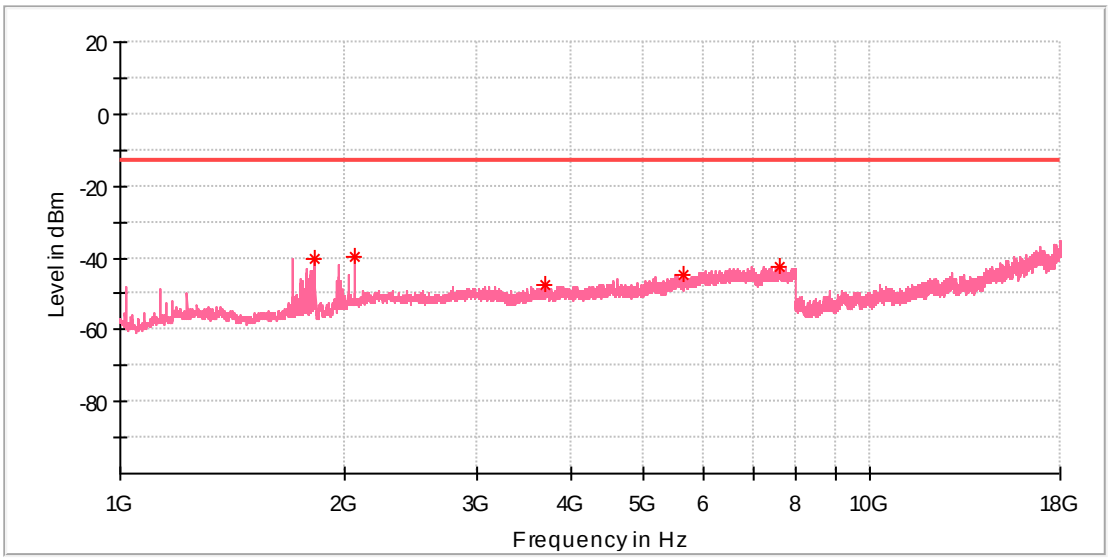


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1700.500000	-43.08	-13.00	30.08	100.0	H	271.0	-92.3
3770.000000	-48.02	-13.00	35.02	100.0	H	169.0	-86.6
5538.000000	-45.12	-13.00	32.12	100.0	H	79.0	-83.2
7402.500000	-42.62	-13.00	29.62	100.0	H	0.0	-79.7

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



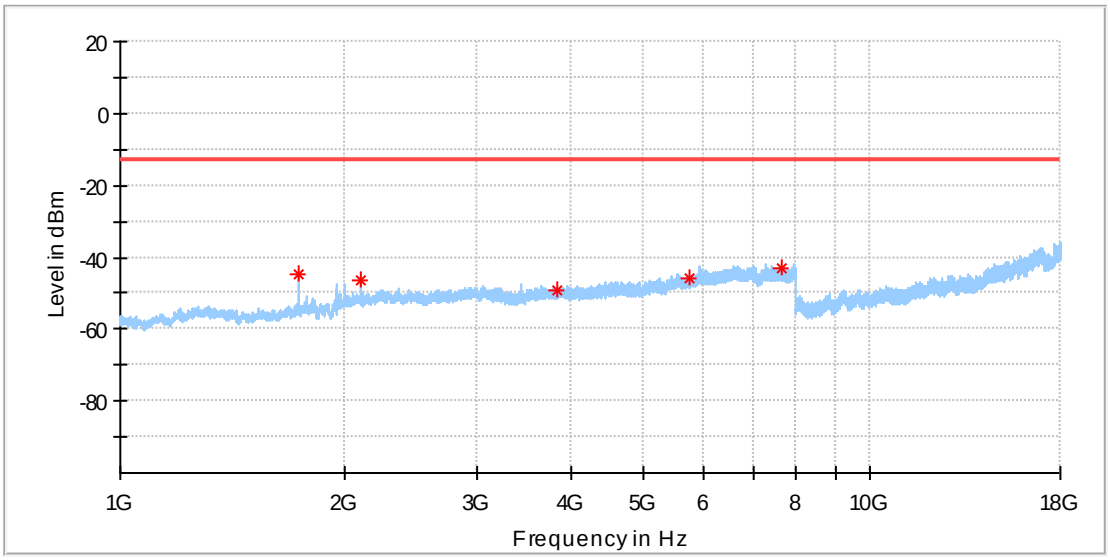
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1817.000000	-40.05	-13.00	27.05	100.0	V	277.0	-89.8
2058.500000	-39.70	-13.00	26.70	100.0	V	8.0	-89.0
3704.000000	-47.67	-13.00	34.67	100.0	V	273.0	-86.7
5664.000000	-44.98	-13.00	31.98	100.0	V	183.0	-83.7
7573.500000	-42.75	-13.00	29.75	100.0	V	51.0	-79.4

High Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M QPSK 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

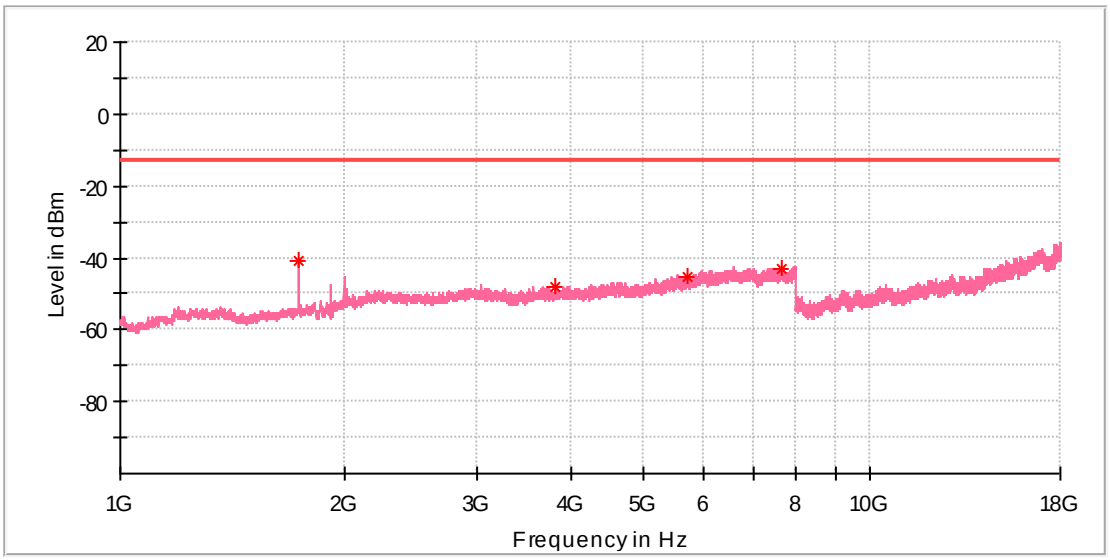


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1728.000000	-44.48	-13.00	31.48	100.0	H	203.0	-91.5
2092.000000	-46.64	-13.00	33.64	100.0	H	0.0	-88.7
3824.500000	-48.96	-13.00	35.96	100.0	H	280.0	-86.8
5743.500000	-46.09	-13.00	33.09	100.0	H	196.0	-83.5
7654.500000	-43.10	-13.00	30.10	100.0	H	169.0	-79.7

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M QPSK 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



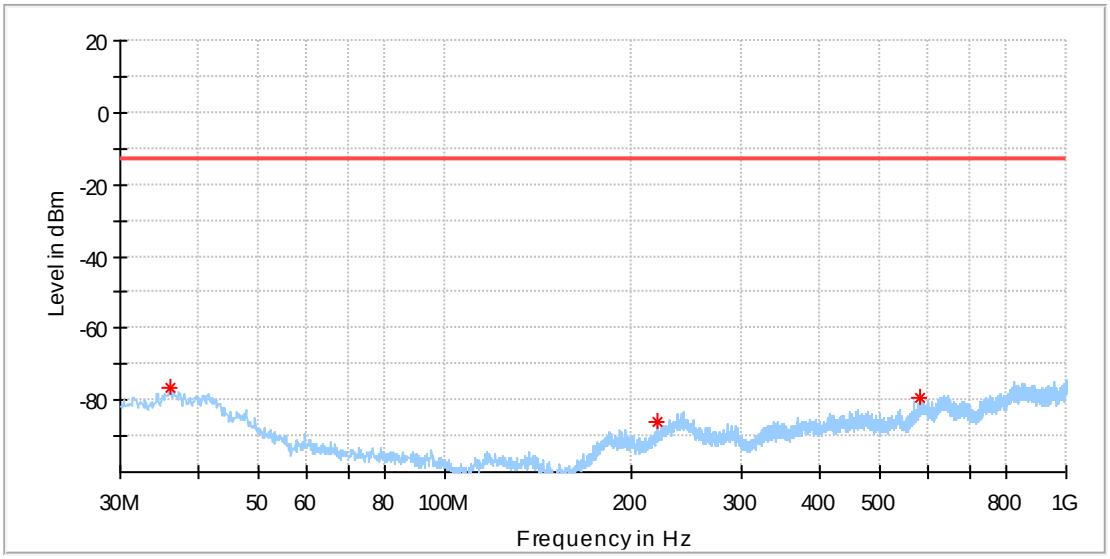
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1727.000000	-40.92	-13.00	27.92	100.0	V	0.0	-91.6
3817.000000	-47.97	-13.00	34.97	100.0	V	323.0	-87.0
5735.500000	-45.28	-13.00	32.28	100.0	V	5.0	-83.6
7624.500000	-43.30	-13.00	30.30	100.0	V	0.0	-79.4

Test Result of 16QAM modulation
Below 1 GHz

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

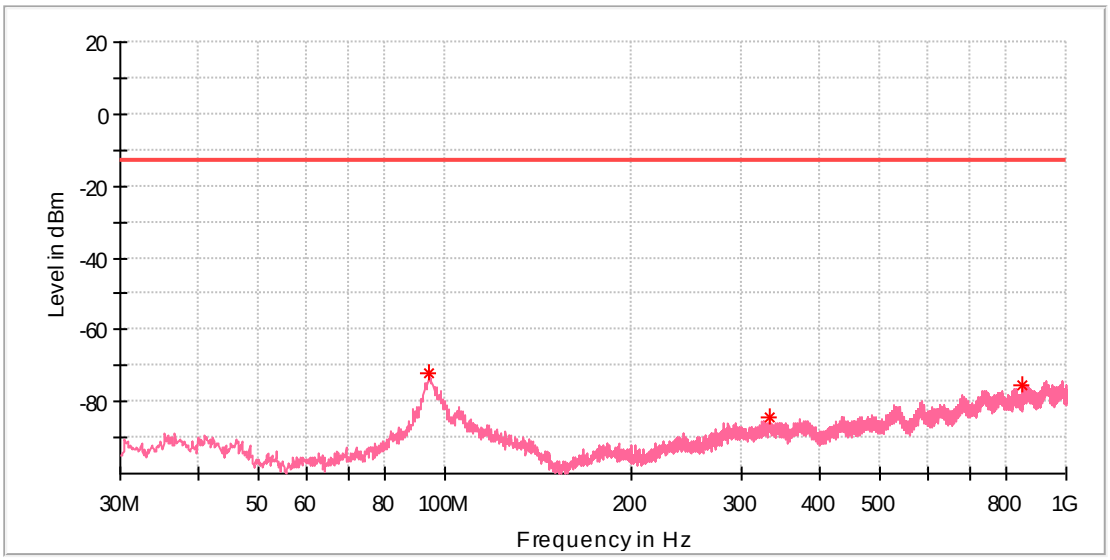


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.062500	-76.51	-13.00	63.51	100.0	H	193.0	-113.3
219.998750	-85.97	-13.00	72.97	100.0	H	63.0	-114.2
580.717500	-79.21	-13.00	66.21	100.0	H	312.0	-106.3

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



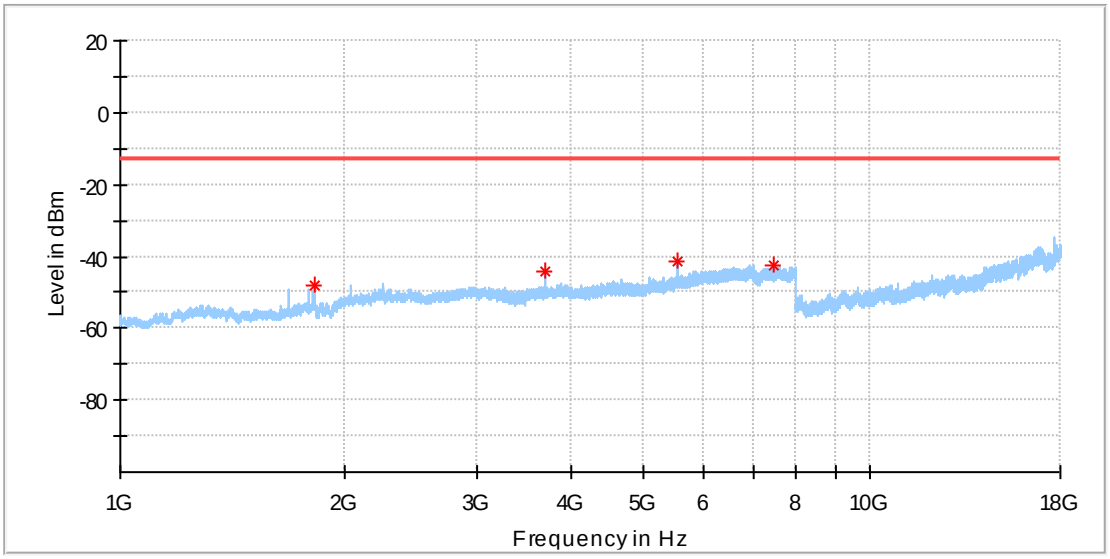
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
94.505000	-72.28	-13.00	59.28	100.0	V	114.0	-99.6
332.882500	-84.29	-13.00	71.29	100.0	V	19.0	-111.9
851.590000	-75.42	-13.00	62.42	100.0	V	83.0	-102.2

Above 1 GHz
Low Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

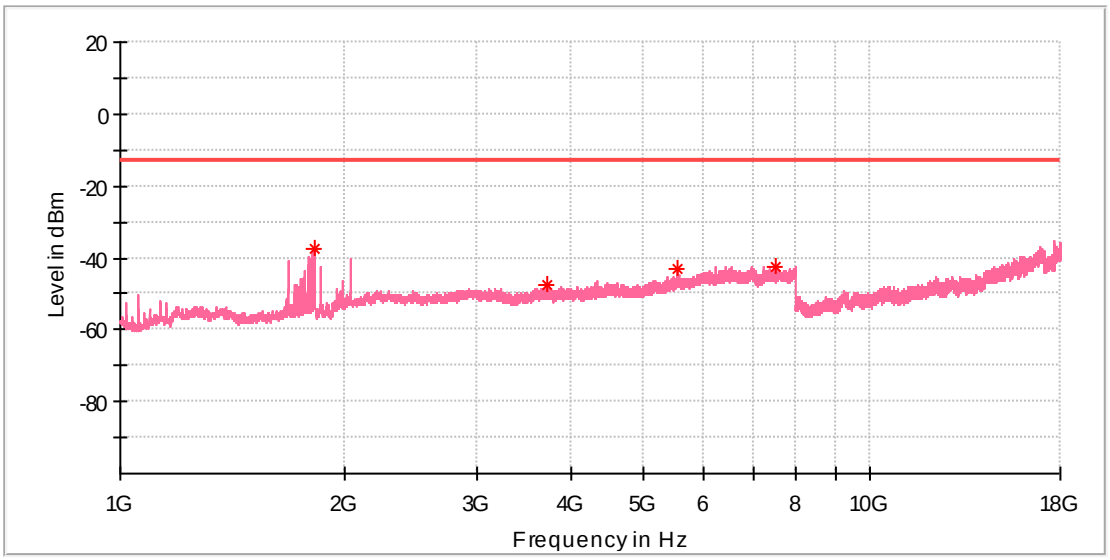


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1818.000000	-47.98	-13.00	34.98	100.0	H	0.0	-90.1
3700.500000	-44.46	-13.00	31.46	100.0	H	121.0	-86.7
5550.500000	-41.49	-13.00	28.49	100.0	H	65.0	-83.2
7479.000000	-42.48	-13.00	29.48	100.0	H	135.0	-79.4

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



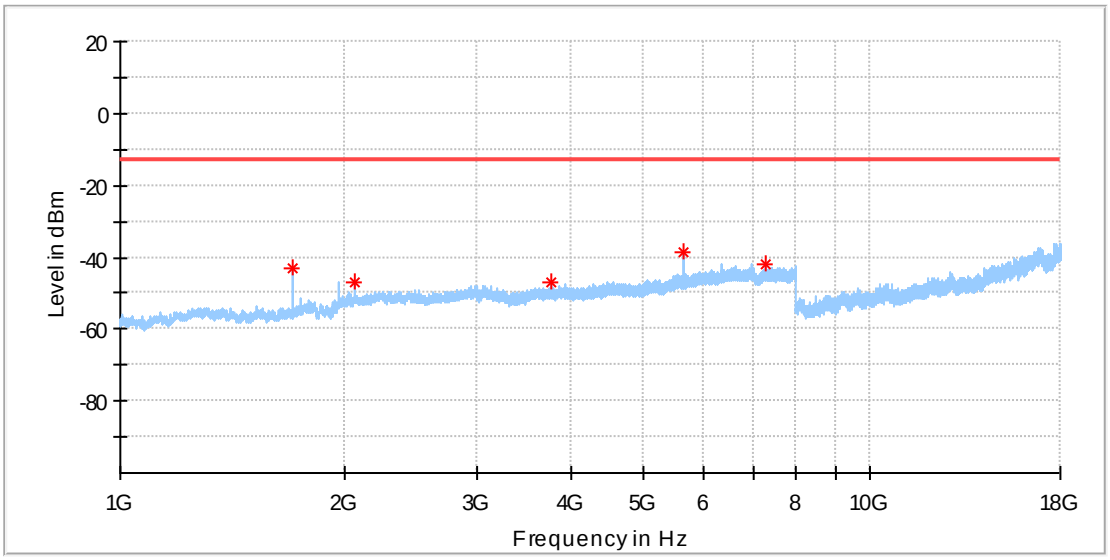
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1815.000000	-37.74	-13.00	24.74	100.0	V	0.0	-89.9
3726.500000	-47.62	-13.00	34.62	100.0	V	107.0	-86.7
5551.500000	-43.01	-13.00	30.01	100.0	V	10.0	-83.1
7511.000000	-42.56	-13.00	29.56	100.0	V	252.0	-79.5

Mid Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

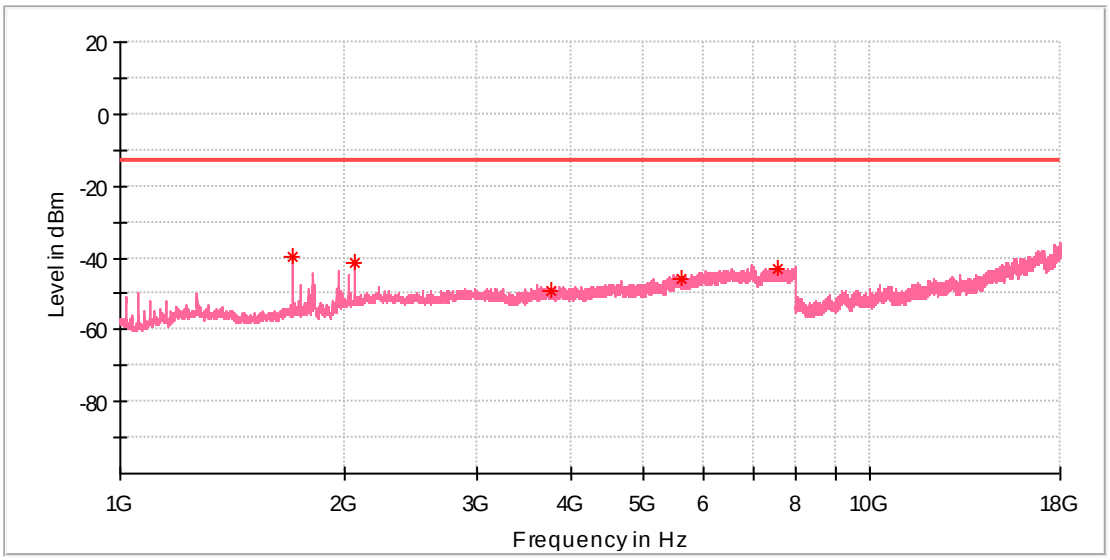


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1700.500000	-43.18	-13.00	30.18	100.0	H	206.0	-92.3
2058.000000	-47.04	-13.00	34.04	100.0	H	78.0	-88.4
3758.500000	-46.95	-13.00	33.95	100.0	H	63.0	-86.6
5638.500000	-38.36	-13.00	25.36	100.0	H	70.0	-83.8
7255.000000	-41.99	-13.00	28.99	100.0	H	320.0	-79.6

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



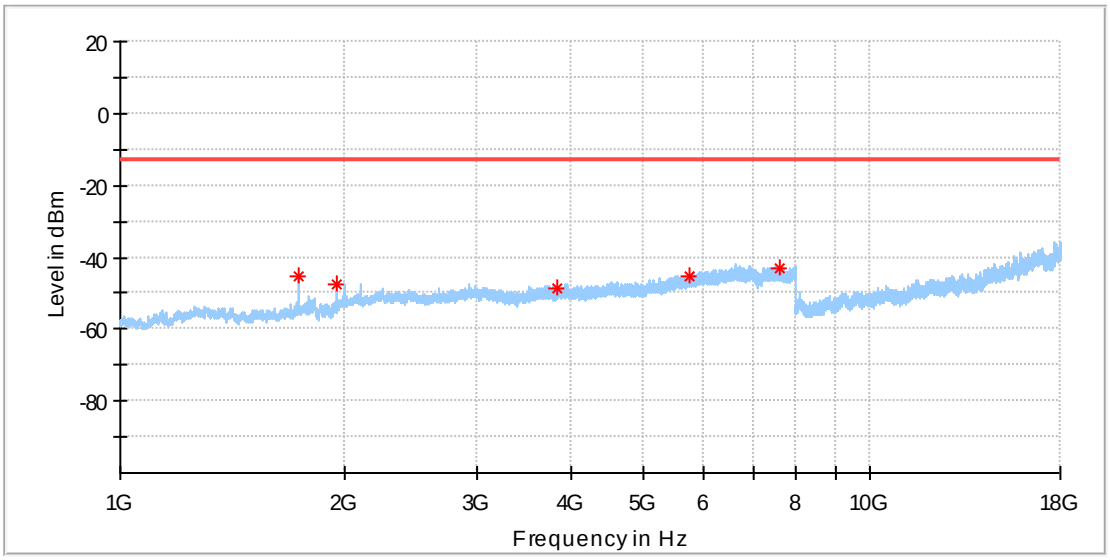
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1700.500000	-39.80	-13.00	26.80	100.0	V	174.0	-92.0
2058.500000	-41.38	-13.00	28.38	100.0	V	356.0	-89.0
3756.500000	-48.98	-13.00	35.98	100.0	V	176.0	-86.9
5629.500000	-46.03	-13.00	33.03	100.0	V	135.0	-83.8
7538.000000	-43.21	-13.00	30.21	100.0	V	204.0	-79.5

High Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M 16QAM 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

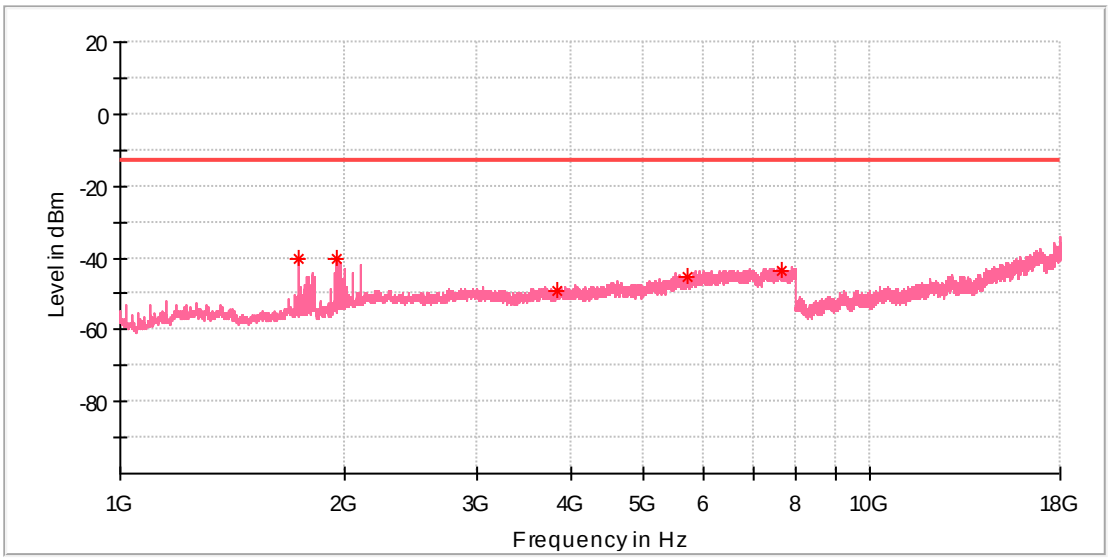


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1728.000000	-45.10	-13.00	32.10	100.0	H	273.0	-91.5
1944.000000	-47.28	-13.00	34.28	100.0	H	325.0	-89.9
3831.500000	-48.56	-13.00	35.56	100.0	H	253.0	-86.9
5744.000000	-45.24	-13.00	32.24	100.0	H	102.0	-83.5
7612.000000	-43.00	-13.00	30.00	100.0	H	158.0	-79.6

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M 16QAM 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 24 and RSS-133 Issue 6
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

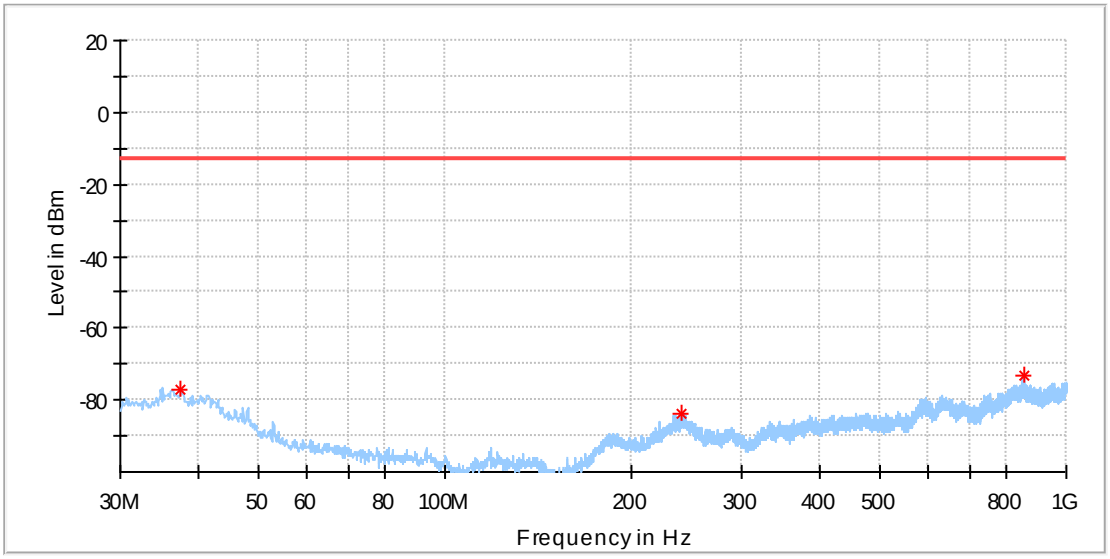
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1728.000000	-40.12	-13.00	27.12	100.0	V	172.0	-91.6
1944.000000	-40.05	-13.00	27.05	100.0	V	177.0	-89.6
3830.000000	-49.03	-13.00	36.03	100.0	V	31.0	-86.9
5726.500000	-45.57	-13.00	32.57	100.0	V	24.0	-83.6
7651.000000	-43.51	-13.00	30.51	100.0	V	87.0	-79.6

Appendix K.2: Field Strength of Spurious Radiation for Band 4

Test Result of QPSK modulation
Below 1 GHz

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

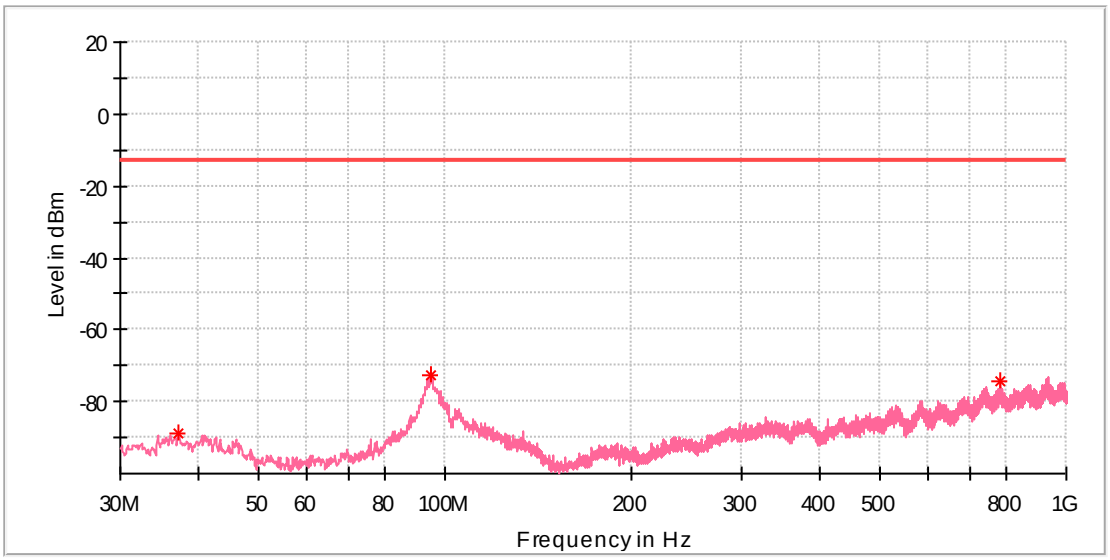


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.517500	-76.95	-13.00	63.95	100.0	H	205.0	-113.7
239.398750	-84.02	-13.00	71.02	100.0	H	196.0	-110.6
852.681250	-73.05	-13.00	60.05	100.0	H	37.0	-100.2

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



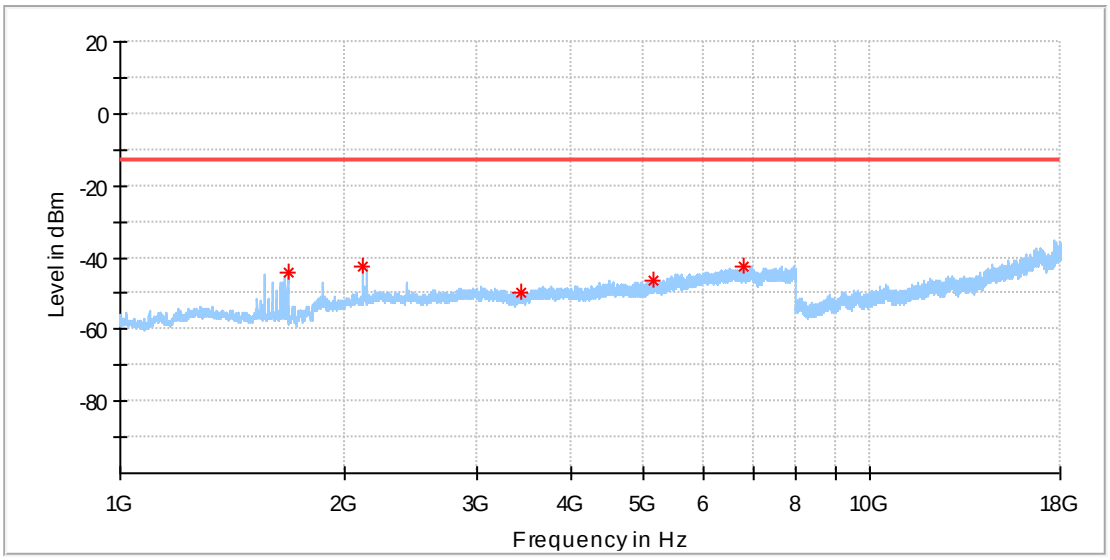
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.275000	-88.77	-13.00	75.77	100.0	V	181.0	-125.7
94.747500	-72.41	-13.00	59.41	100.0	V	0.0	-99.6
780.780000	-74.51	-13.00	61.51	100.0	V	33.0	-102.5

Above 1 GHz
Low Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

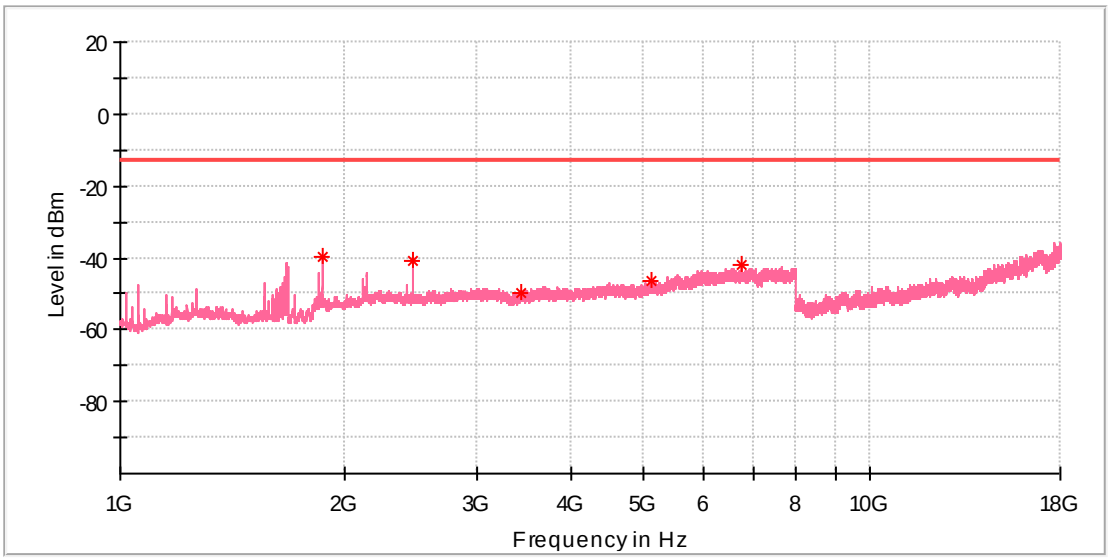


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1674.000000	-44.16	-13.00	31.16	100.0	H	264.0	-92.5
2111.000000	-42.59	-13.00	29.59	100.0	H	310.0	-89.0
3421.000000	-50.03	-13.00	37.03	100.0	H	217.0	-87.9
5152.000000	-46.66	-13.00	33.66	100.0	H	58.0	-84.7
6783.000000	-42.50	-13.00	29.50	100.0	H	79.0	-81.5

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Low 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



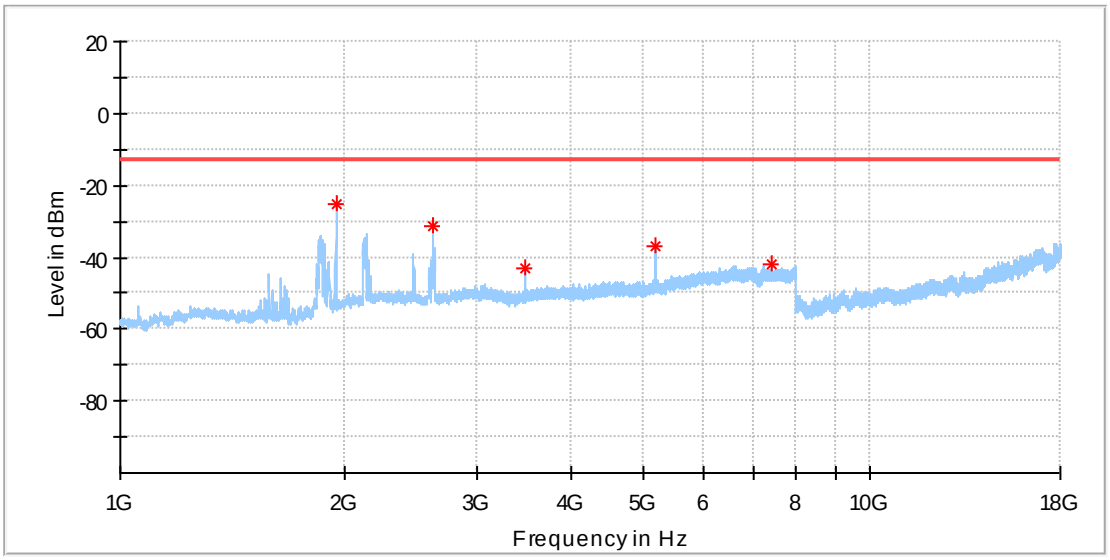
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1859.000000	-39.73	-13.00	26.73	100.0	V	339.0	-90.1
2461.500000	-40.97	-13.00	27.97	100.0	V	190.0	-88.1
3425.000000	-49.61	-13.00	36.61	100.0	V	157.0	-87.6
5130.500000	-46.29	-13.00	33.29	100.0	V	358.0	-84.9
6760.500000	-42.06	-13.00	29.06	100.0	V	233.0	-81.7

Mid Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

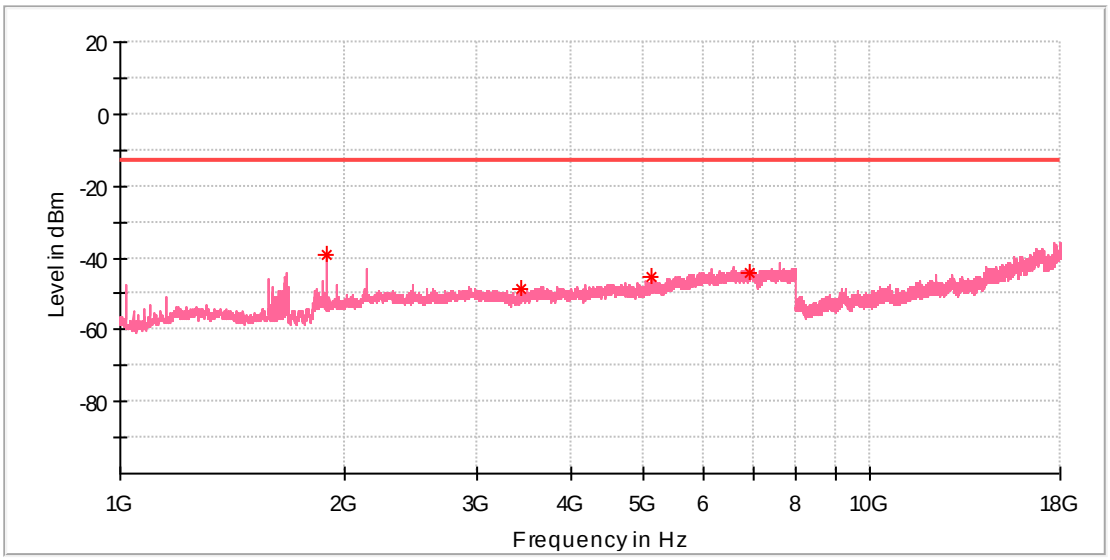


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1943.500000	-25.13	-13.00	12.13	100.0	H	16.0	-89.9
2616.000000	-31.21	-13.00	18.21	100.0	H	11.0	-88.1
3464.000000	-43.12	-13.00	30.12	100.0	H	150.0	-88.1
5196.000000	-37.01	-13.00	24.01	100.0	H	331.0	-84.8
7405.000000	-42.20	-13.00	29.20	100.0	H	0.0	-79.7

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX Mid 1.4M QPSK 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



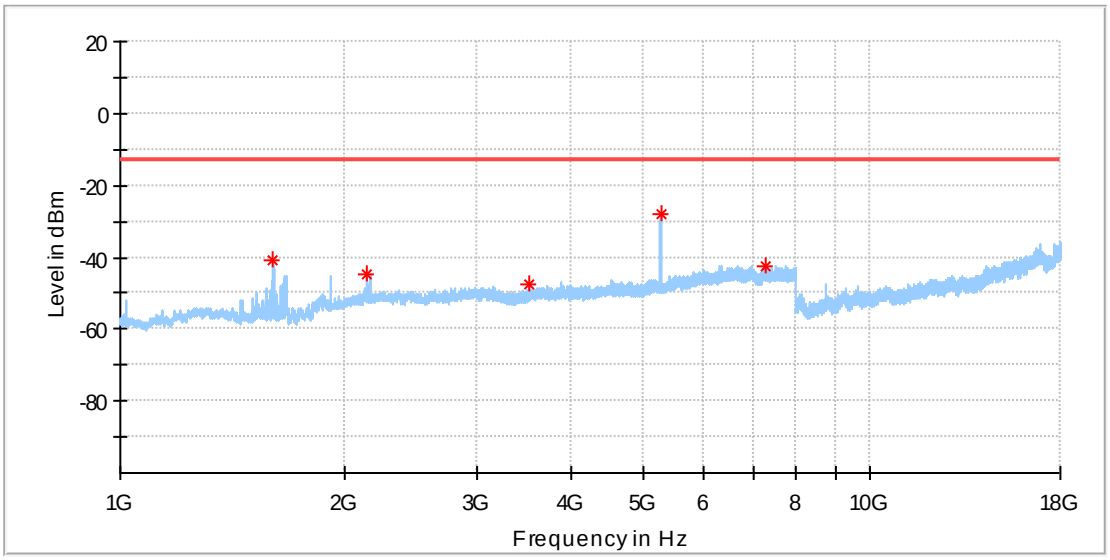
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1882.500000	-39.13	-13.00	26.13	100.0	V	0.0	-90.2
3437.000000	-48.46	-13.00	35.46	100.0	V	10.0	-87.4
5125.000000	-45.49	-13.00	32.49	100.0	V	301.0	-84.9
6929.000000	-43.98	-13.00	30.98	100.0	V	196.0	-81.2

High Channel

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M QPSK 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

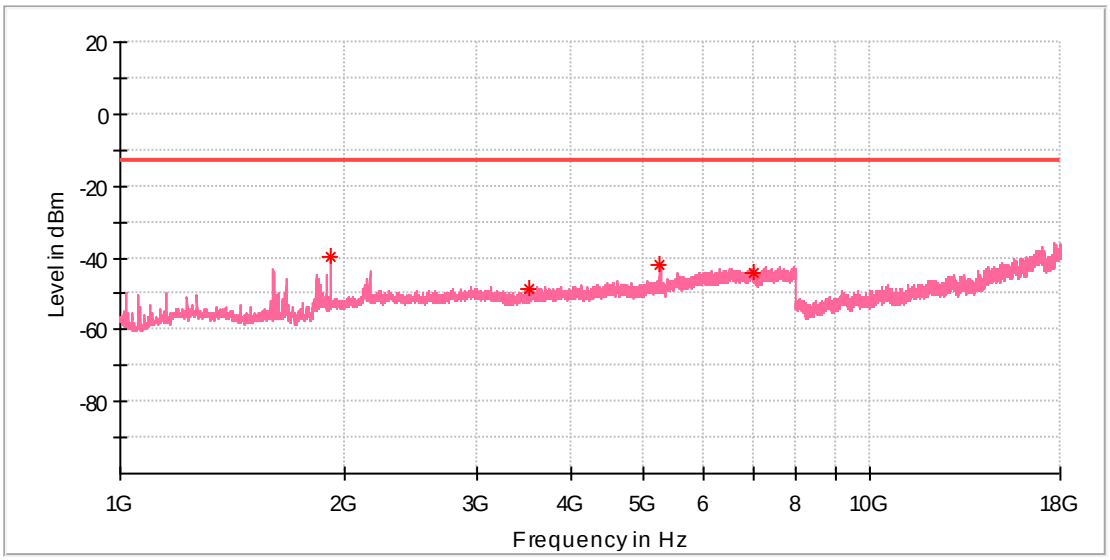


Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1602.000000	-40.73	-13.00	27.73	100.0	H	82.0	-92.8
2132.500000	-44.63	-13.00	31.63	100.0	H	263.0	-88.2
3509.500000	-47.64	-13.00	34.64	100.0	H	41.0	-87.3
5264.500000	-27.90	-13.00	14.90	100.0	H	110.0	-85.0
7254.000000	-42.59	-13.00	29.59	100.0	H	83.0	-79.6

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX High 1.4M QPSK 1@5
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:42%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



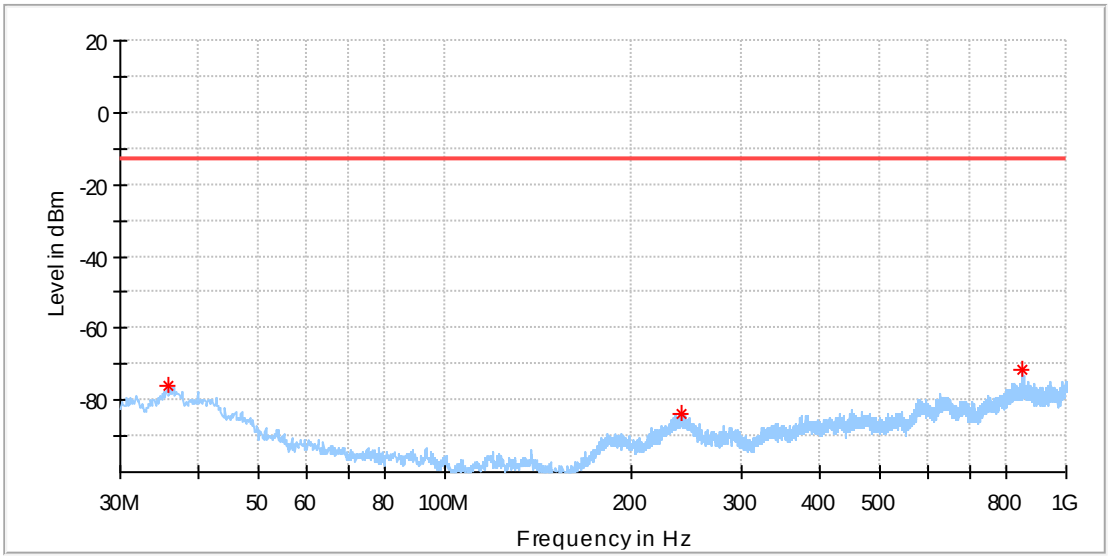
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1907.000000	-39.75	-13.00	26.75	100.0	V	187.0	-90.0
3508.500000	-48.85	-13.00	35.85	100.0	V	142.0	-87.5
5263.500000	-42.01	-13.00	29.01	100.0	V	128.0	-85.1
7024.500000	-44.34	-13.00	31.34	100.0	V	246.0	-80.5

Test Result of 16QAM modulation
Below 1 GHz

EUT Information

EUT Name:	DATA TERMINAL MODULE
Model:	ME310G1-WW
Test Mode:	TX 1.4M 16QAM 1@0
Test Voltage::	DC 3.8V
Remark:	Temp 23 Humi:47%
Test Standard:	FCC Part 27 and RSS-139 Issue 3 and RSS-130 Issue 2
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.820000	-76.15	-13.00	63.15	100.0	H	236.0	-113.5
239.762500	-84.00	-13.00	71.00	100.0	H	267.0	-110.5
851.590000	-71.52	-13.00	58.52	100.0	H	358.0	-100.2