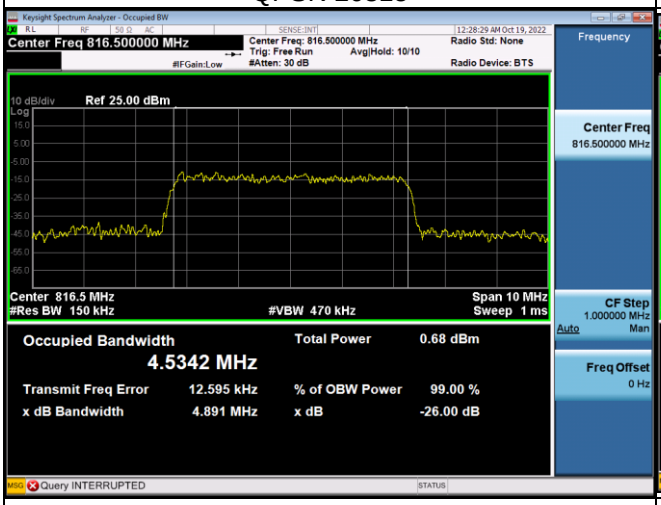
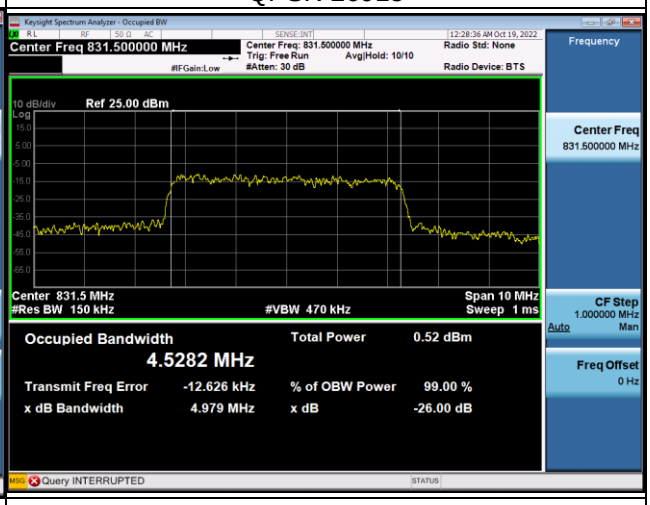
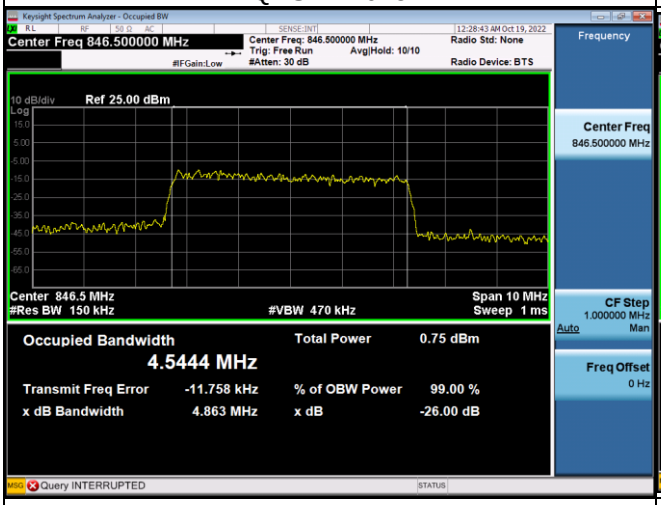
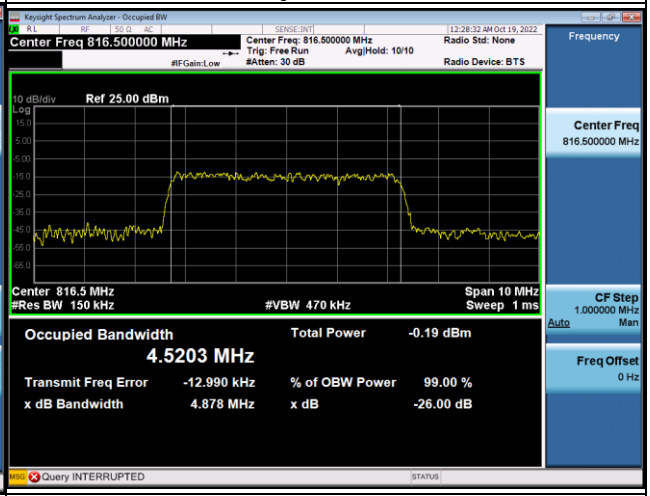
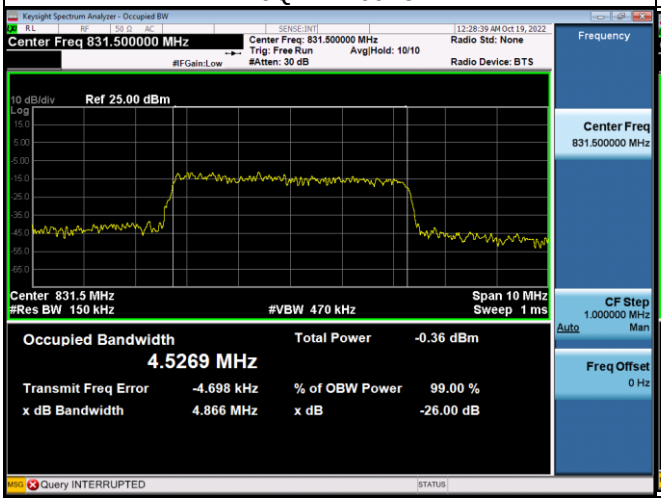
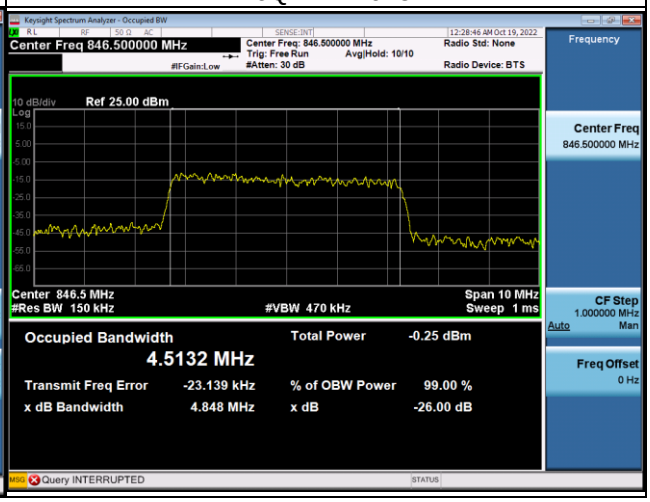
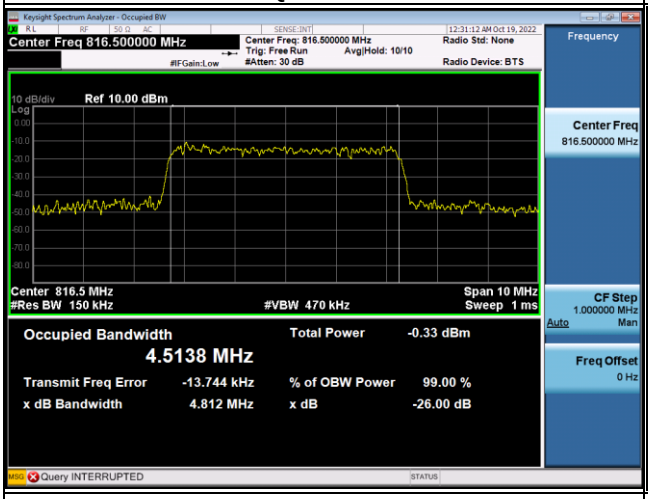
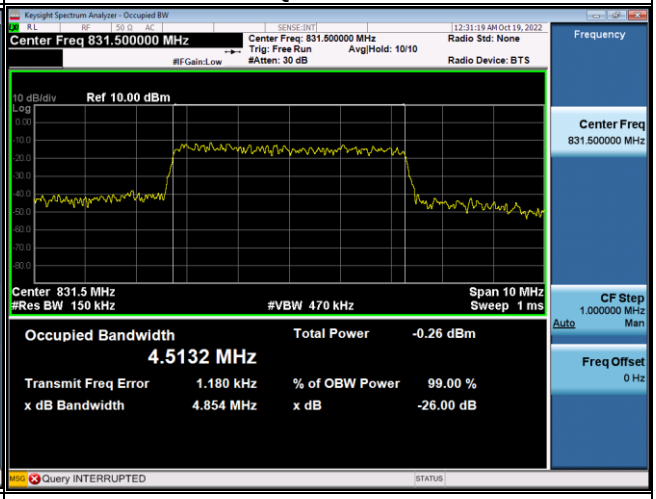
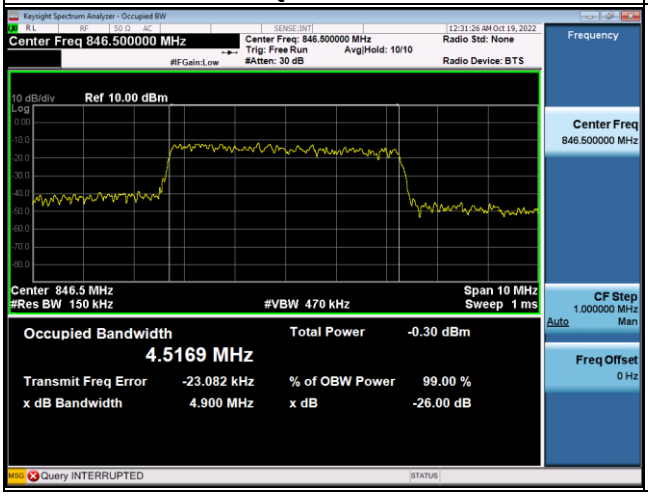
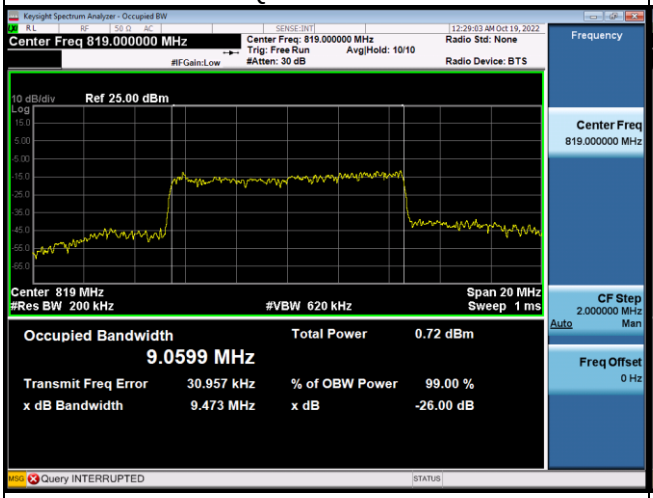
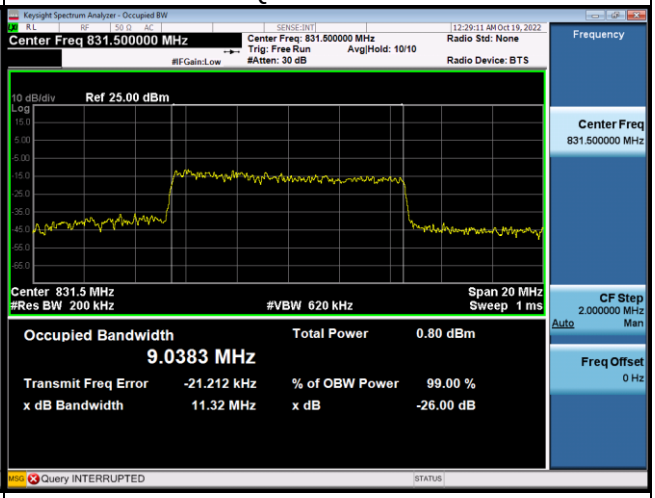
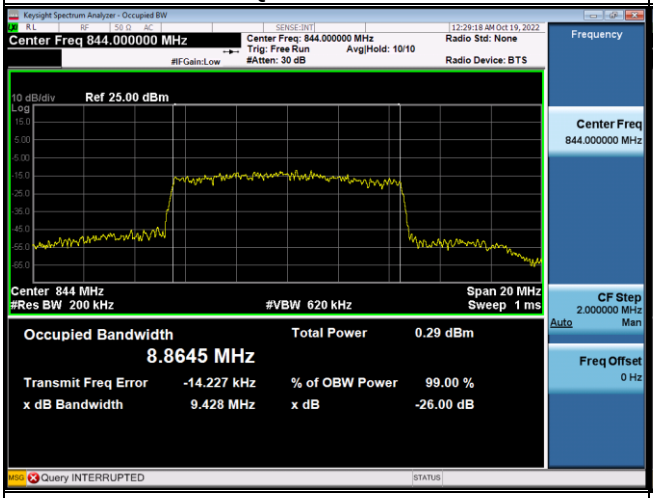
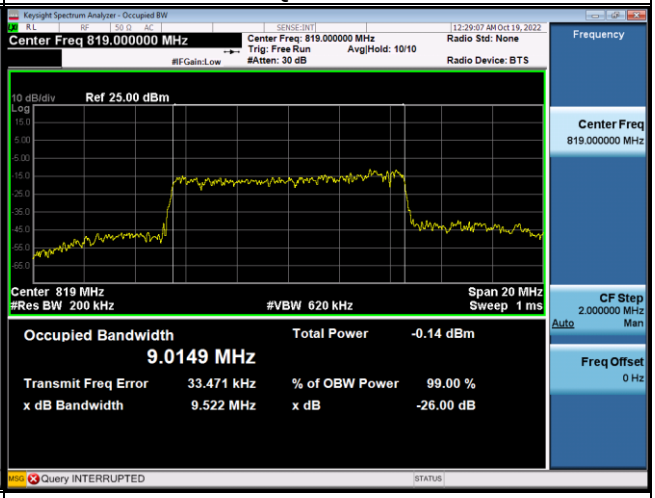
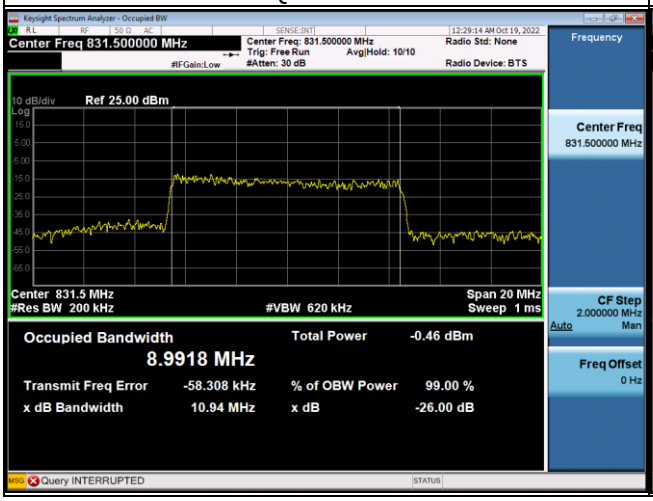
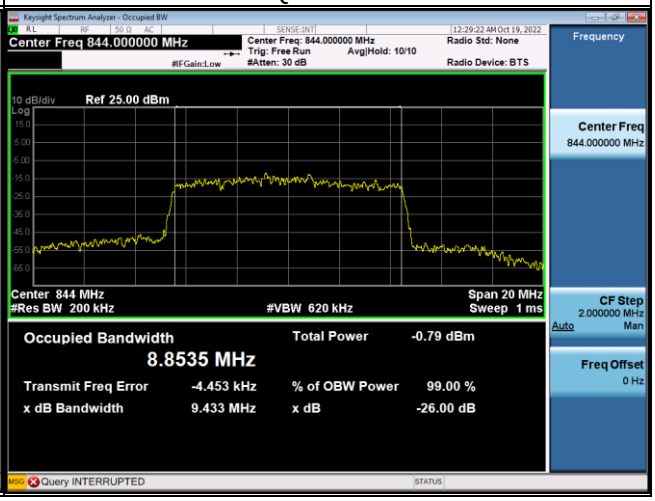
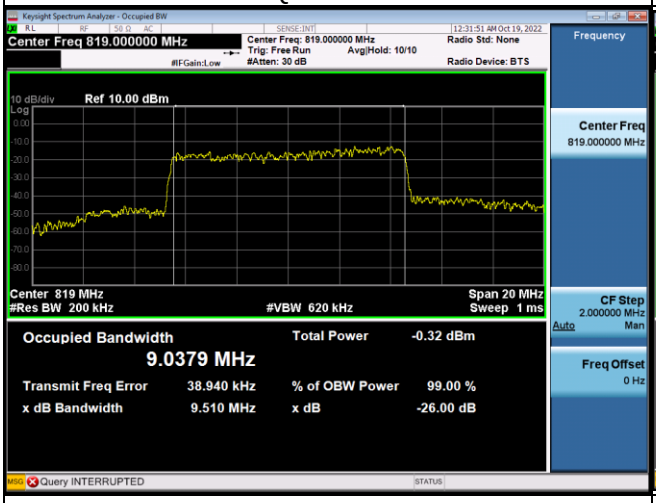
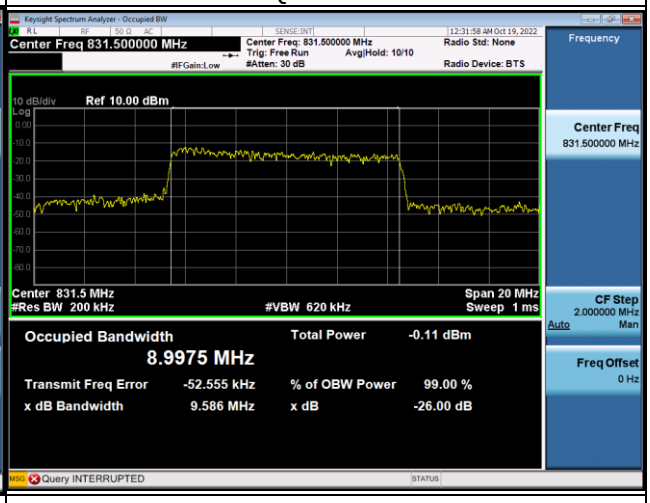
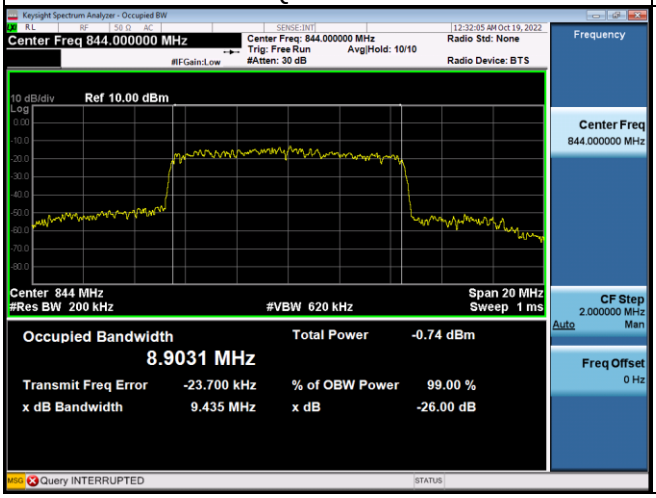
Spectrum Plot	
QPSK-26815	QPSK-26915
	
QPSK-27015	16QAM-26815
	
16QAM-26915	16QAM-27015
	

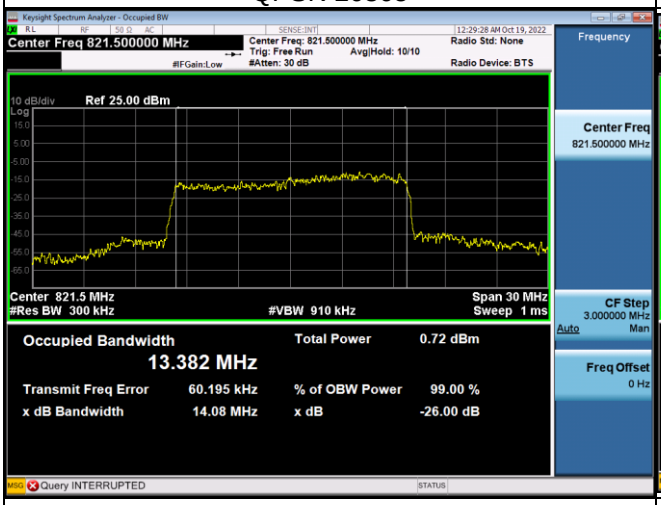
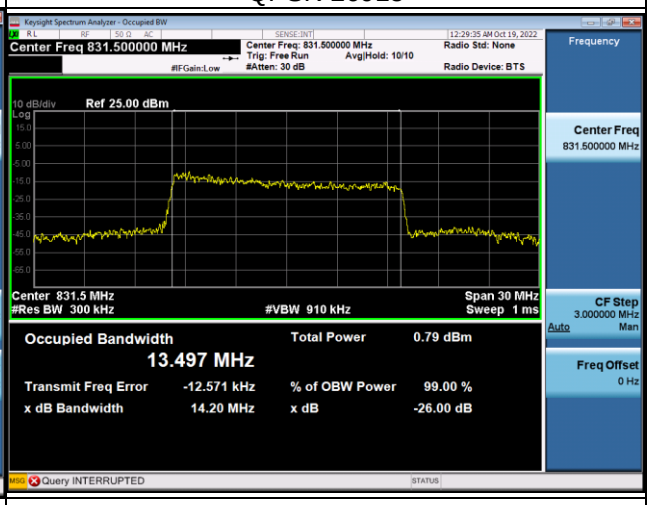
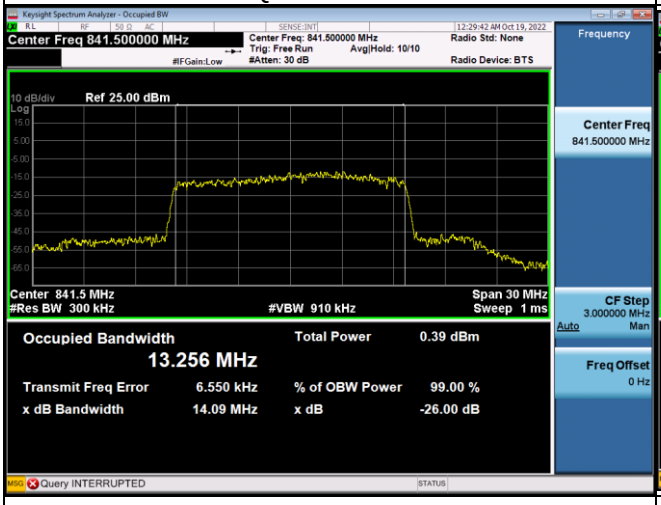
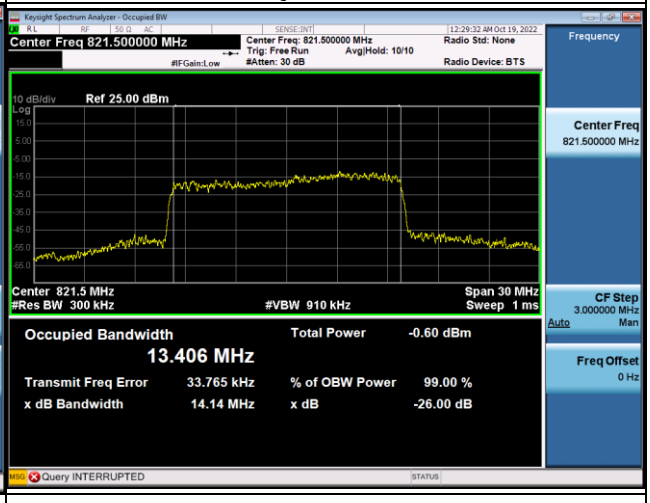
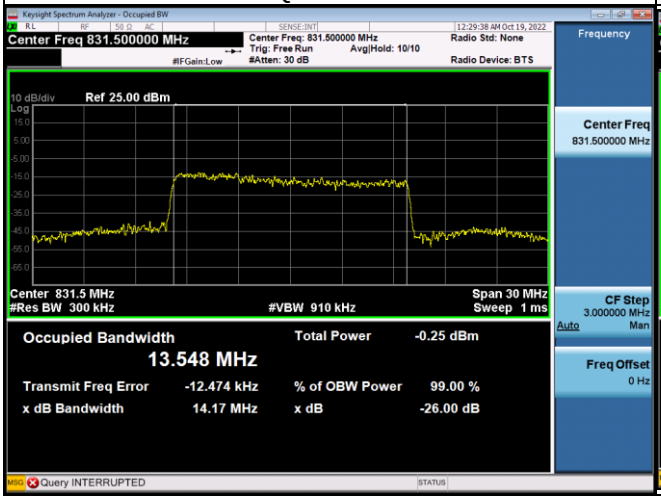
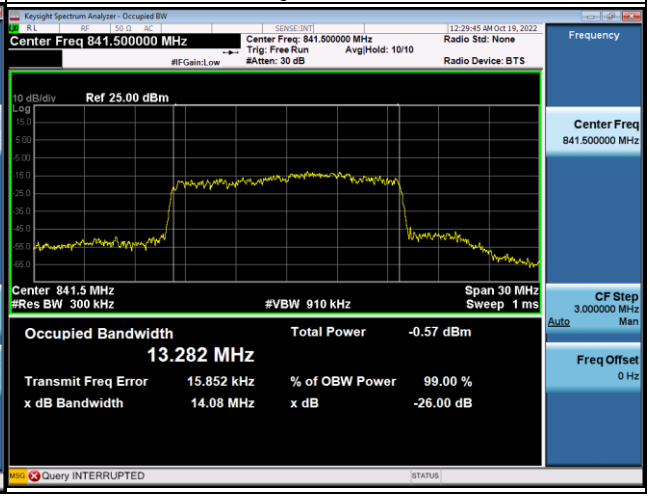
Spectrum Plot	
64QAM-26815	64QAM-26915
	
64QAM-27015	-
	-

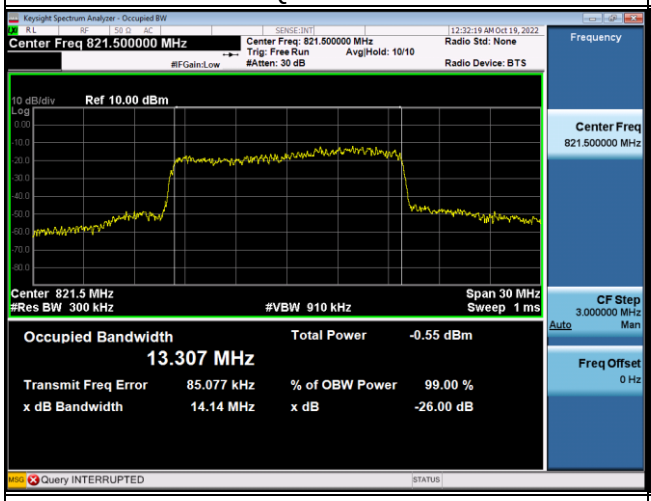
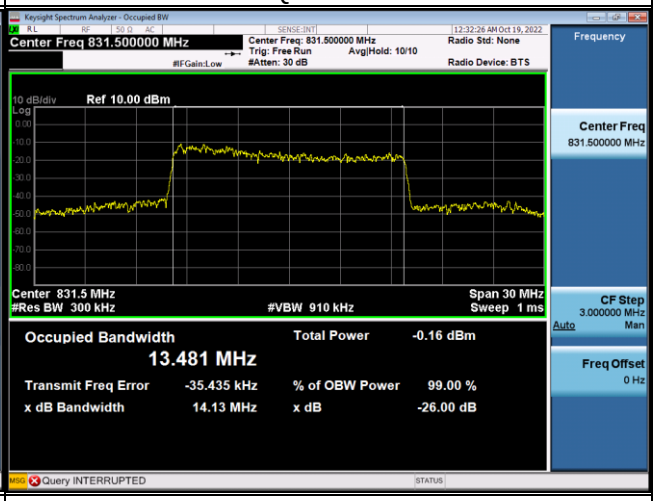
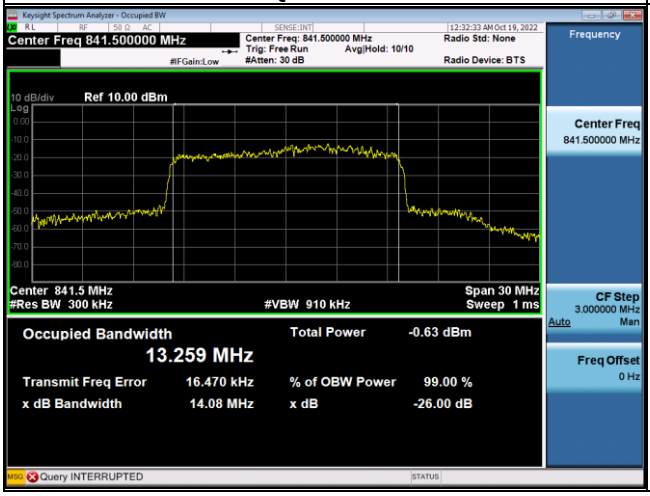
LTE Band 26_10M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0599	26840	829	9.473
26915	836.5	9.0383	26915	836.5	11.32
26990	844	8.8645	26990	844	9.428
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0149	26840	829	9.522
26915	836.5	8.9918	26915	836.5	10.94
26990	844	8.8535	26990	844	9.433
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26840	829	9.0379	26840	829	9.510
26915	836.5	8.9975	26915	836.5	9.586
26990	844	8.9031	26990	844	9.435

Spectrum Plot	
QPSK-26840	QPSK-26915
	
QPSK-26990	16QAM-26840
	
16QAM-26915	16QAM-26990
	

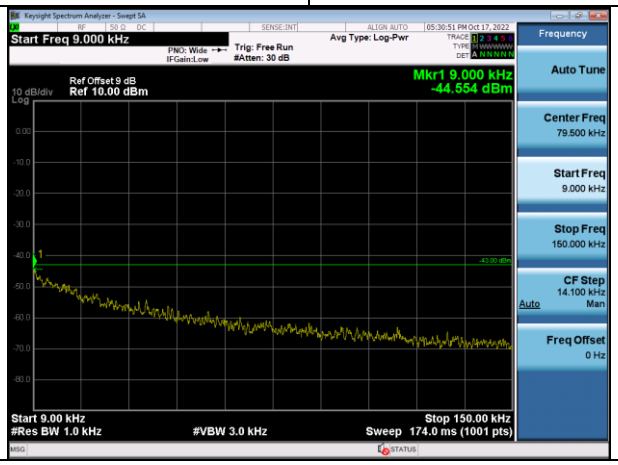
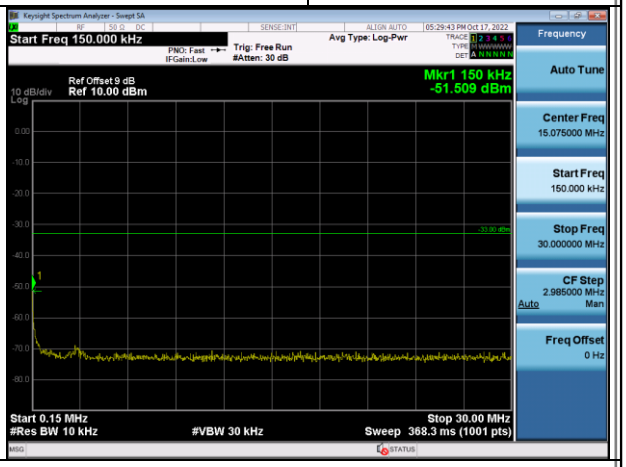
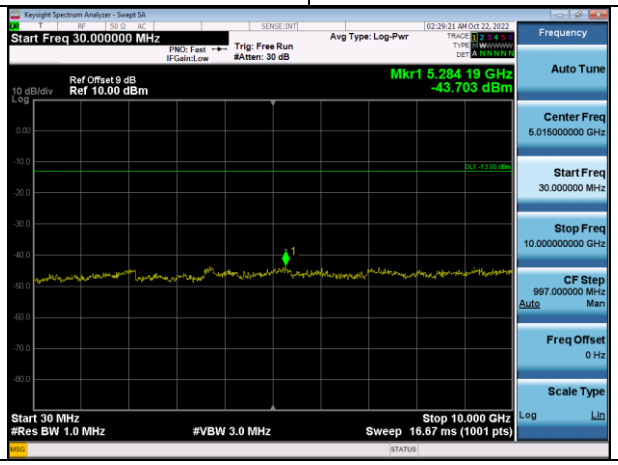
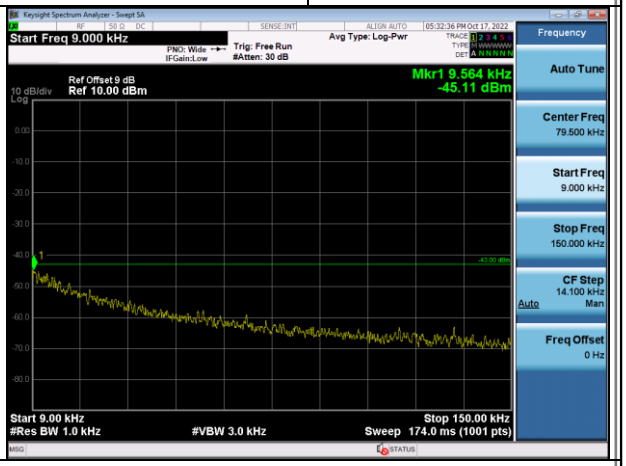
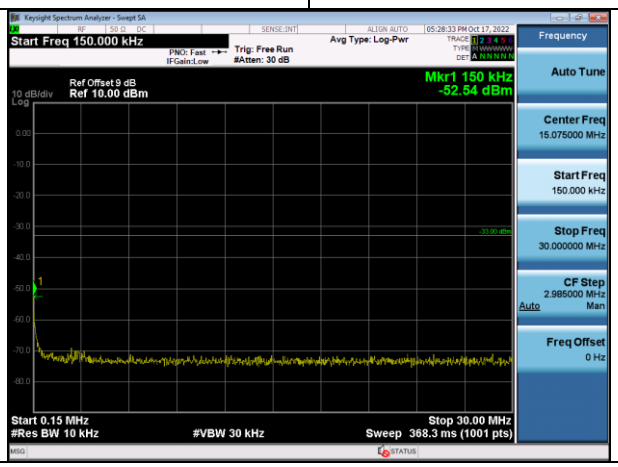
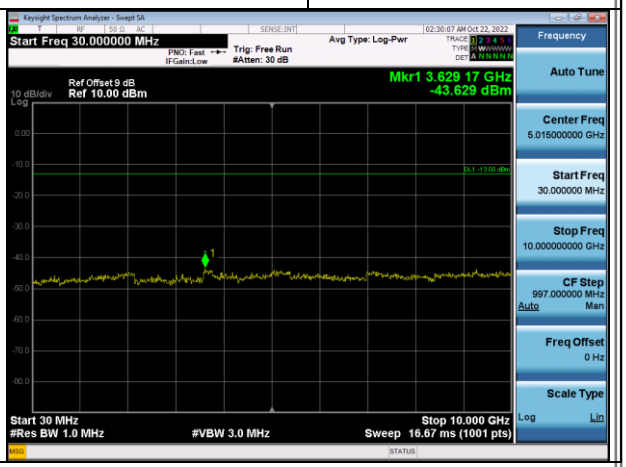
Spectrum Plot	
64QAM-26840	64QAM-26915
	
64QAM-26990	-
	-

LTE Band 26_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.382	26865	831.5	14.08
26915	836.5	13.497	26915	836.5	14.20
26965	841.5	13.256	26965	841.5	14.09
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.406	26865	831.5	14.14
26915	836.5	13.548	26915	836.5	14.17
26965	841.5	13.282	26965	841.5	14.08
64QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
26865	831.5	13.307	26865	831.5	14.14
26915	836.5	13.481	26915	836.5	14.13
26965	841.5	13.259	26965	841.5	14.08

Spectrum Plot	
QPSK-26865	QPSK-26915
	
QPSK-26965	16QAM-26865
	
16QAM-26915	16QAM-26965
	

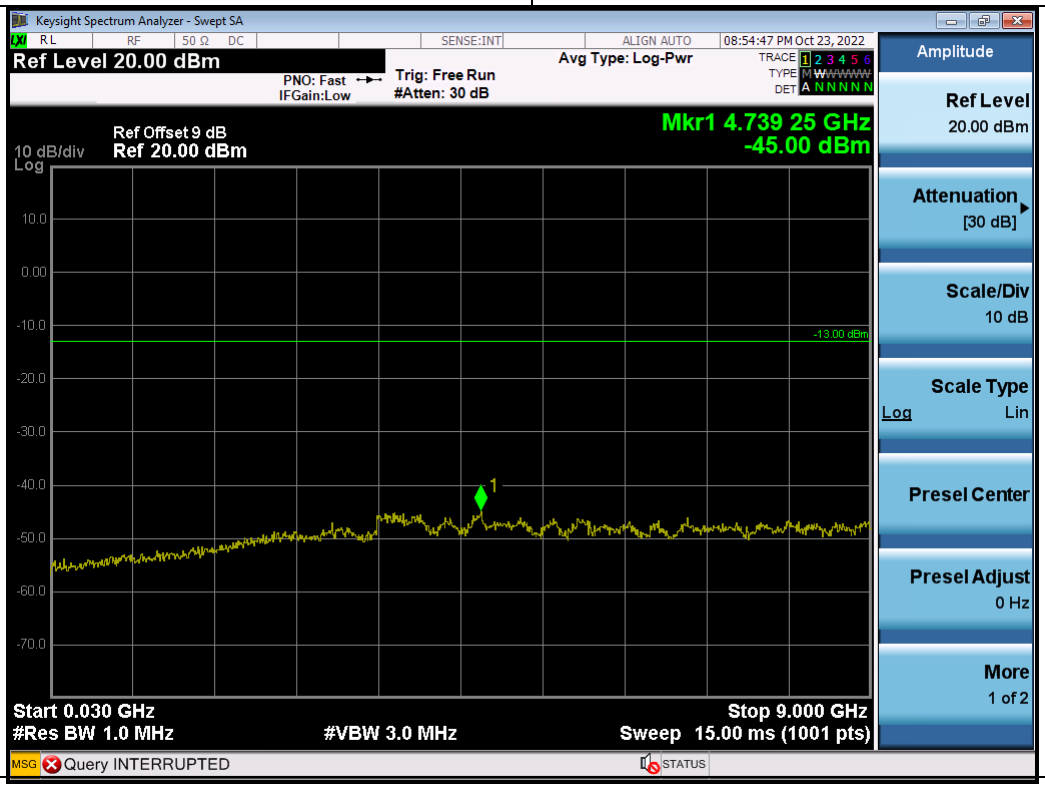
Spectrum Plot	
64QAM-26865	64QAM-26915
	
64QAM-26965	-
	-

APPENDIX C CONDUCTED SPURIOUS EMISSION

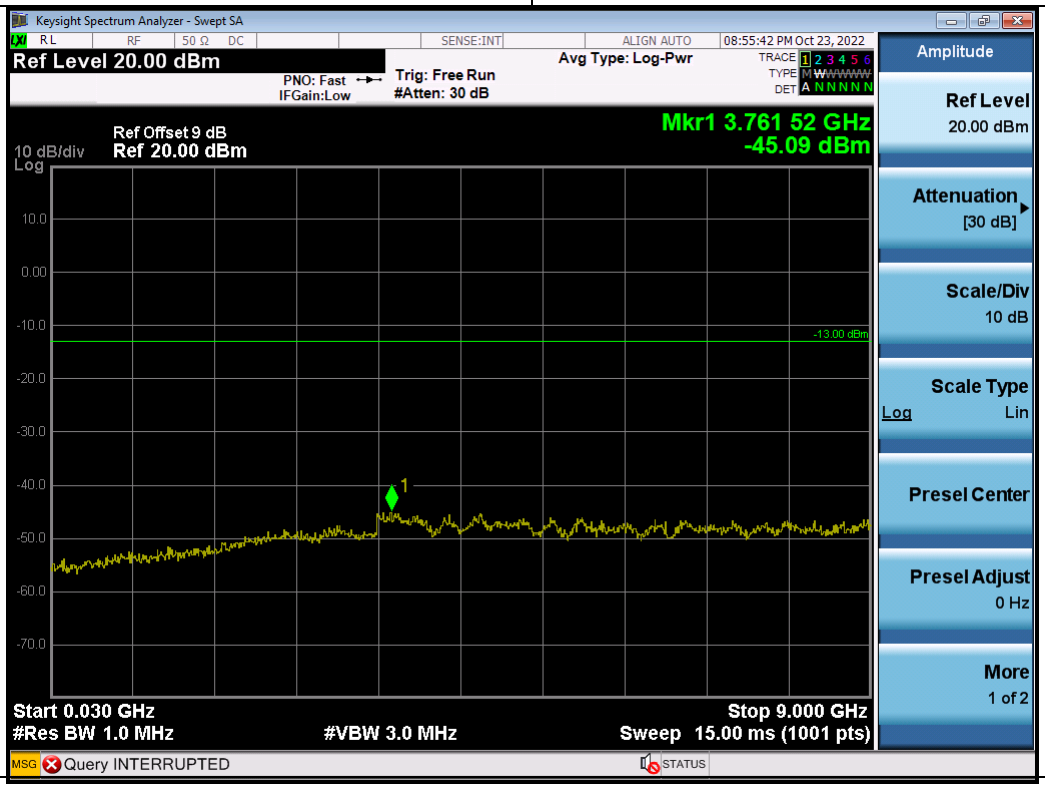
GSM 850 Spectrum Plot			
GSM		GSM	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
			
GSM		EDGE	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
			
EDGE		EDGE	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
190	836.6	190	836.6
			

WCDMA Band V_WCDMA Spectrum Plot	
Channel	Frequency (MHz)
4183	836.6

LTE Band 5_1.4M Spectrum Plot	
Channel	Frequency (MHz)
20525	836.5

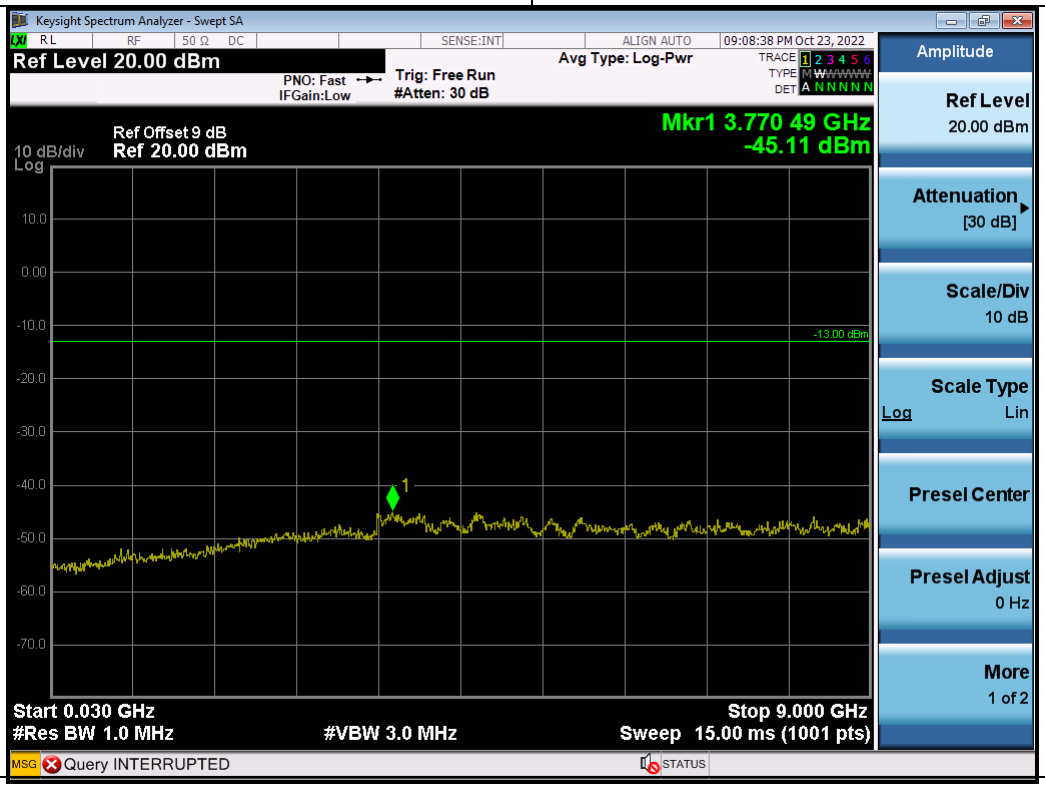


LTE Band 5_5M Spectrum Plot	
Channel	Frequency (MHz)
20525	836.5

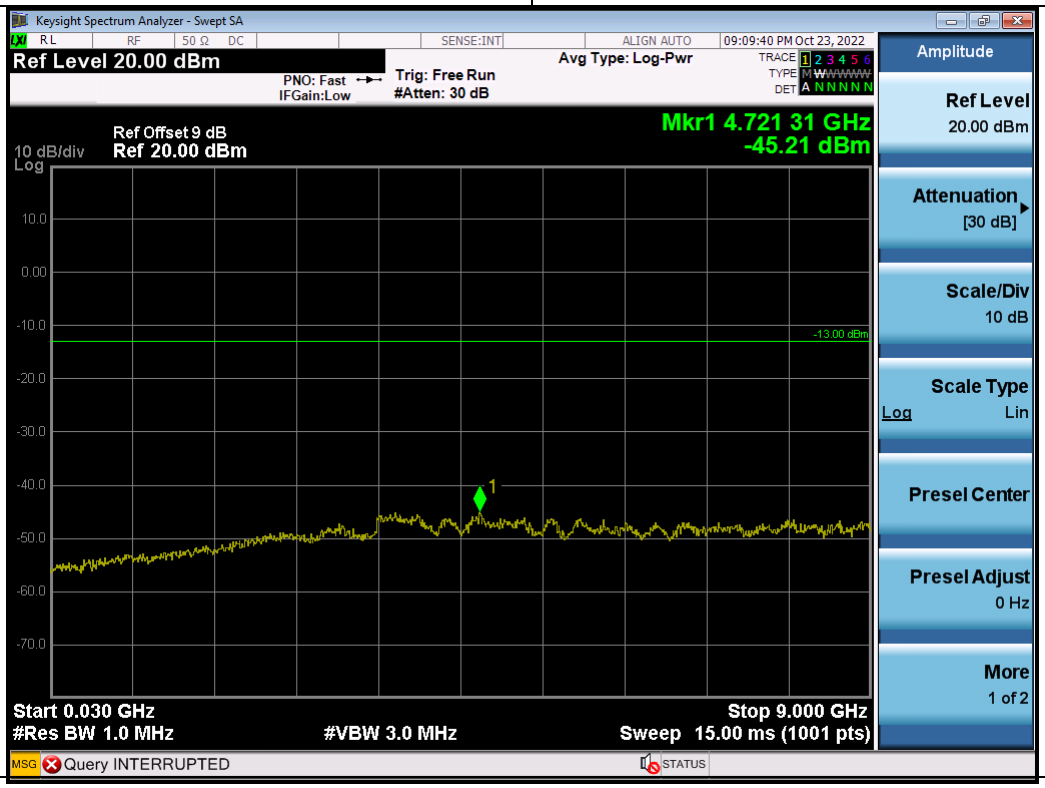


LTE Band 5_10M Spectrum Plot	
Channel	Frequency (MHz)
20525	836.5

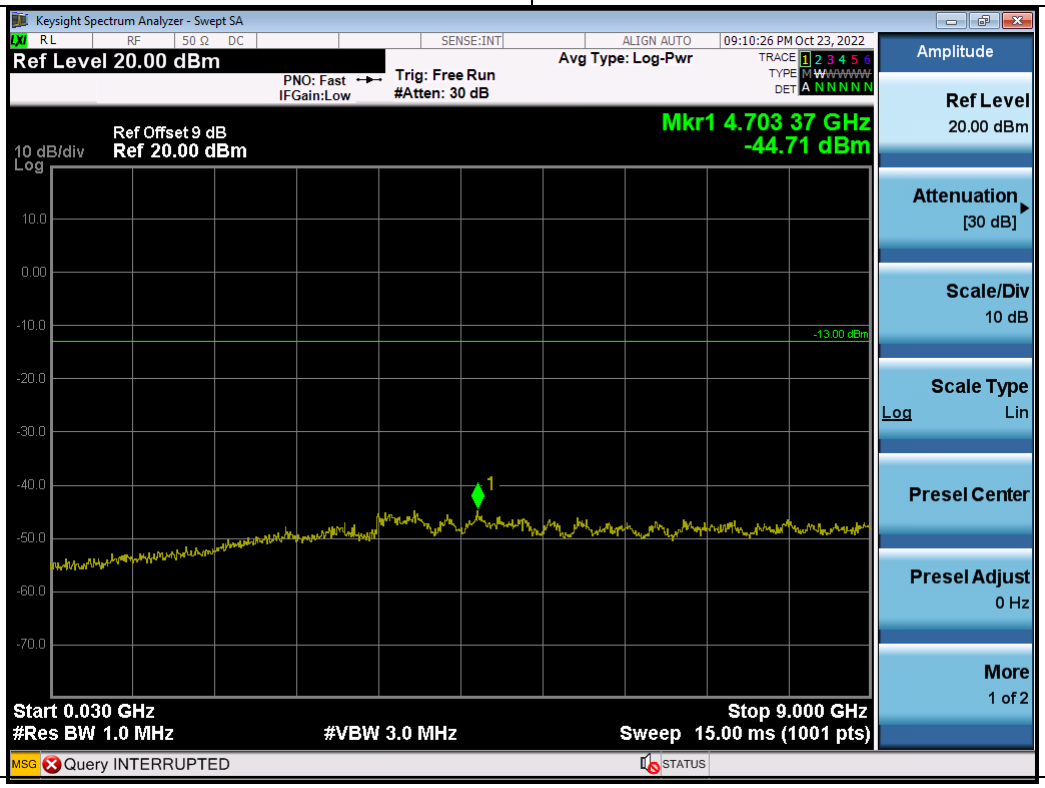
LTE Band 26_1.4M Spectrum Plot	
Channel	Frequency (MHz)
26797	824.7



LTE Band 26_5M Spectrum Plot	
Channel	Frequency (MHz)
26815	826.5

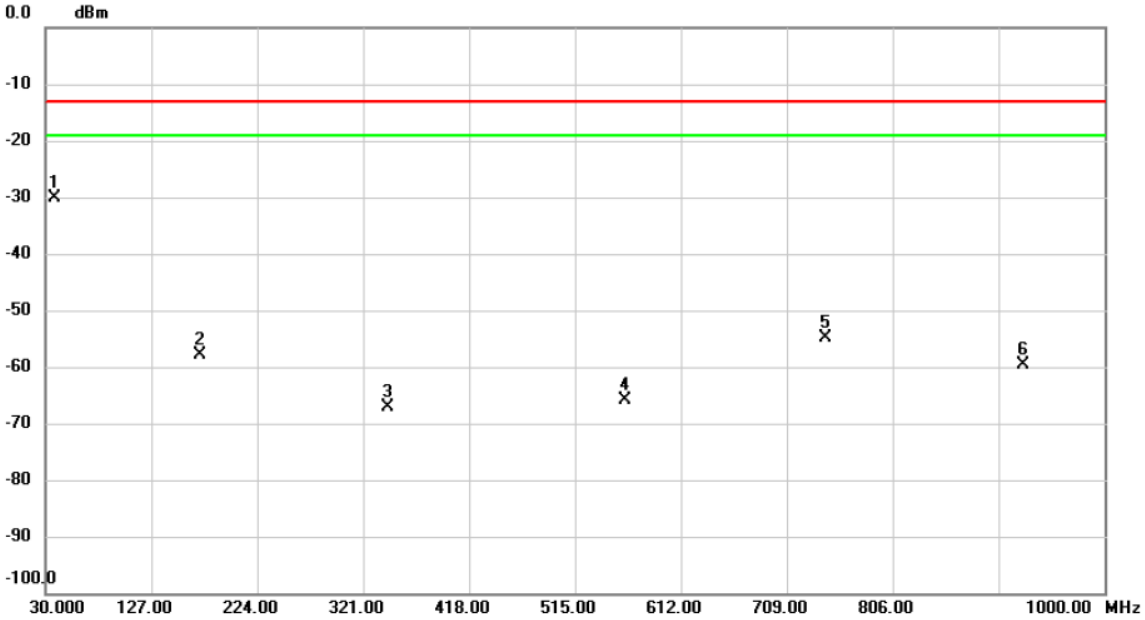


LTE Band 26_15M Spectrum Plot	
Channel	Frequency (MHz)
26865	831.5



APPENDIX D RADIATED SPURIOUS EMISSIONS

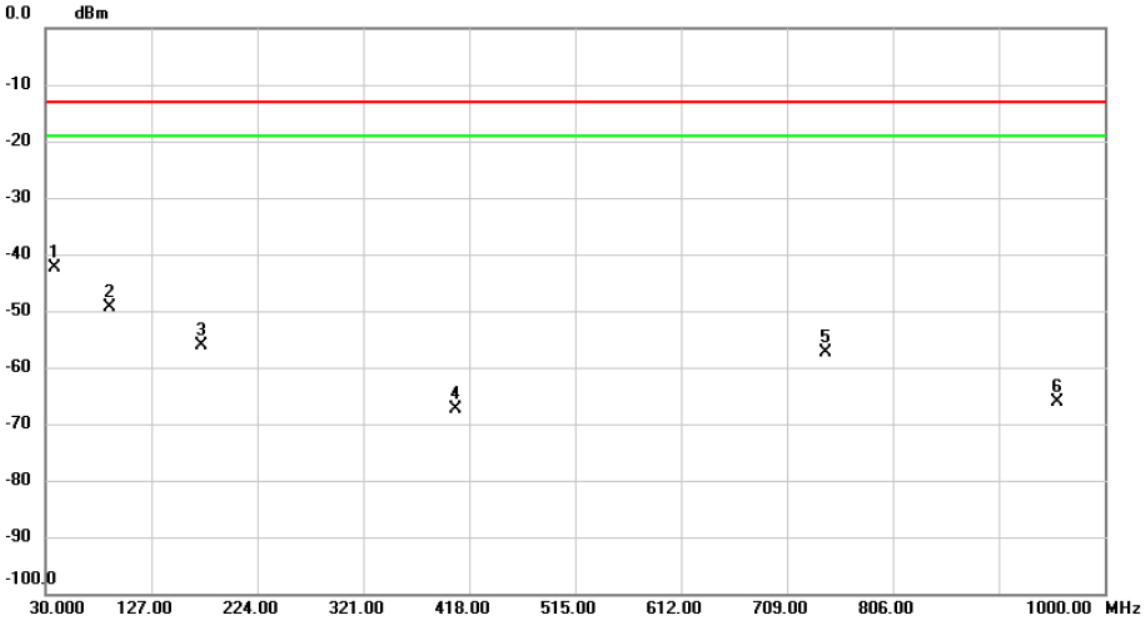
Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	37.8247	-53.00	22.82	-30.18	-13.00	-17.18	peak	
2		171.1673	-74.42	16.46	-57.96	-13.00	-44.96	peak	
3		343.8597	-76.12	8.93	-67.19	-13.00	-54.19	peak	
4		560.6547	-76.29	10.53	-65.76	-13.00	-52.76	peak	
5		745.0840	-64.75	9.91	-54.84	-13.00	-41.84	peak	
6		924.9867	-70.90	11.26	-59.64	-13.00	-46.64	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

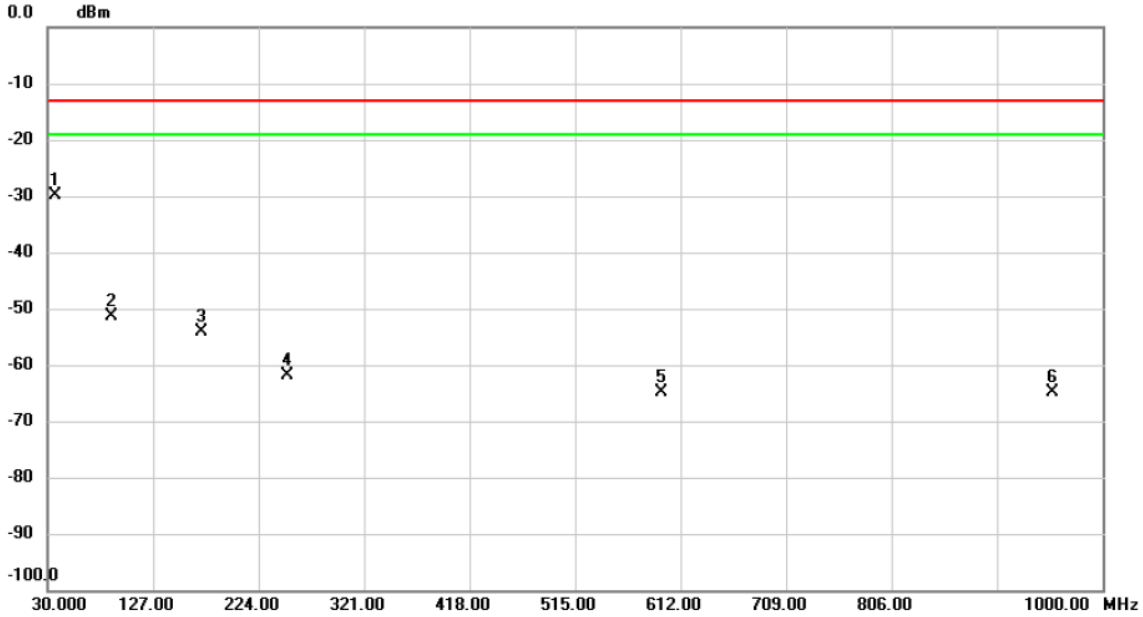
Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	38.1802	-67.09	24.70	-42.39	-13.00	-29.39	peak	
2		88.6850	-64.69	15.36	-49.33	-13.00	-36.33	peak	
3		173.3983	-68.52	12.30	-56.22	-13.00	-43.22	peak	
4		405.2606	-75.66	8.30	-67.36	-13.00	-54.36	peak	
5		744.7283	-66.66	9.18	-57.48	-13.00	-44.48	peak	
6		956.2853	-76.02	9.95	-66.07	-13.00	-53.07	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

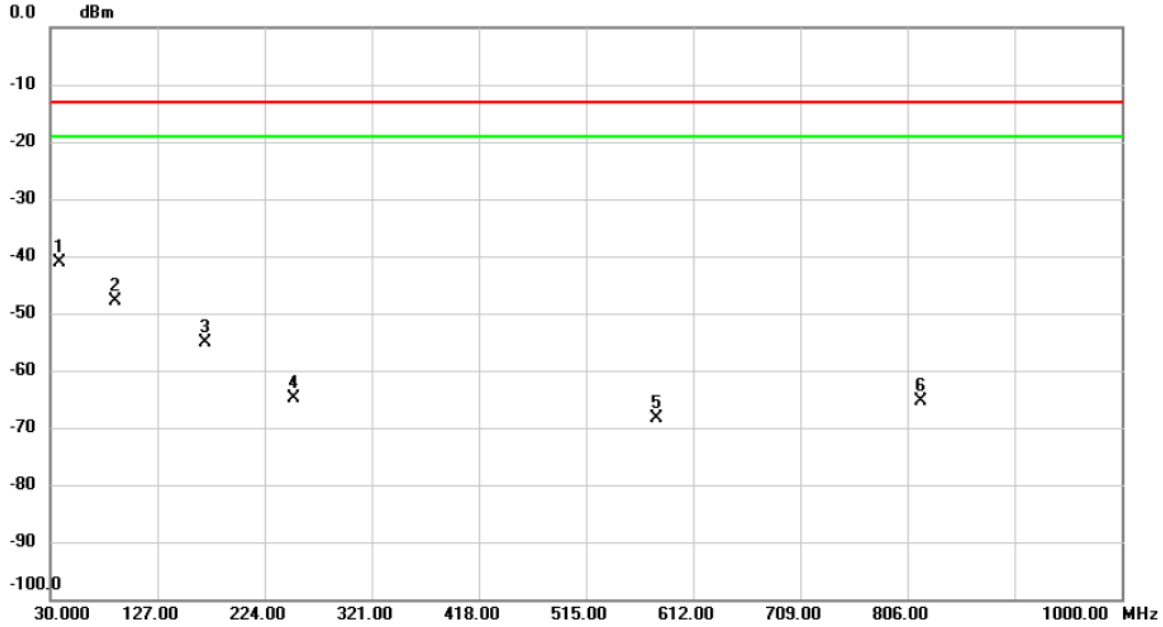
Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	37.7277	-52.63	22.80	-29.83	-13.00	-16.83	peak	
2		88.9113	-68.79	17.39	-51.40	-13.00	-38.40	peak	
3		171.7817	-70.43	16.33	-54.10	-13.00	-41.10	peak	
4		249.9960	-74.12	12.14	-61.98	-13.00	-48.98	peak	
5		594.8957	-75.61	10.66	-64.95	-13.00	-51.95	peak	
6		954.7333	-76.52	11.60	-64.92	-13.00	-51.92	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

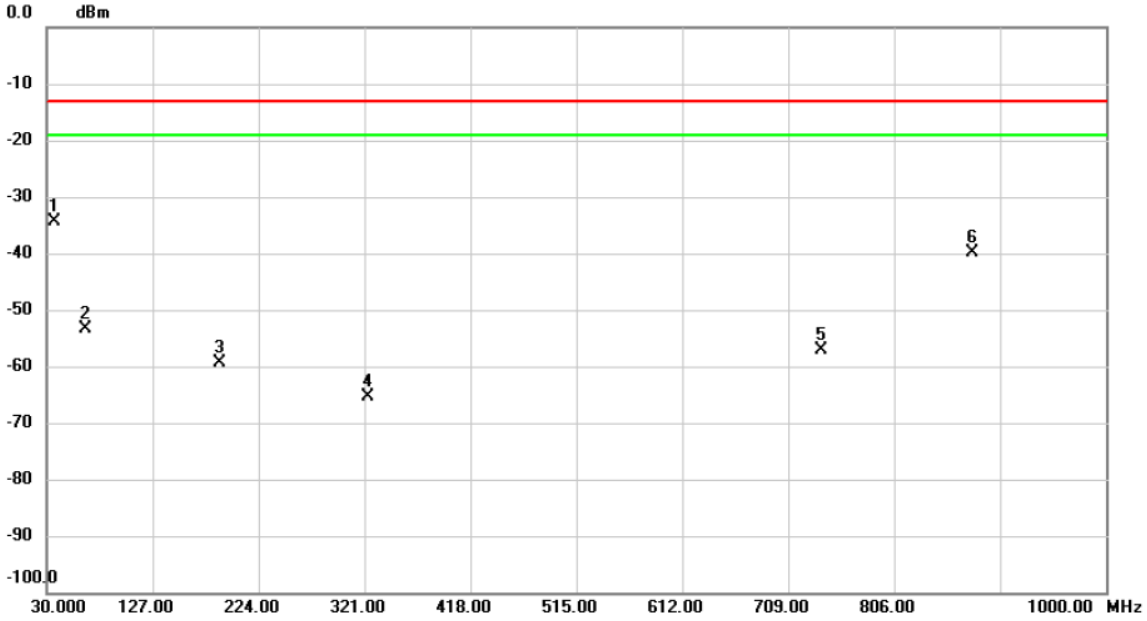
Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	38.0510	-65.72	24.63	-41.09	-13.00	-28.09	peak	
2		88.8790	-63.33	15.34	-47.99	-13.00	-34.99	peak	
3		170.5530	-68.23	13.00	-55.23	-13.00	-42.23	peak	
4		249.9960	-72.09	7.12	-64.97	-13.00	-51.97	peak	
5		578.5027	-75.84	7.51	-68.33	-13.00	-55.33	peak	
6		818.2220	-75.60	10.12	-65.48	-13.00	-52.48	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

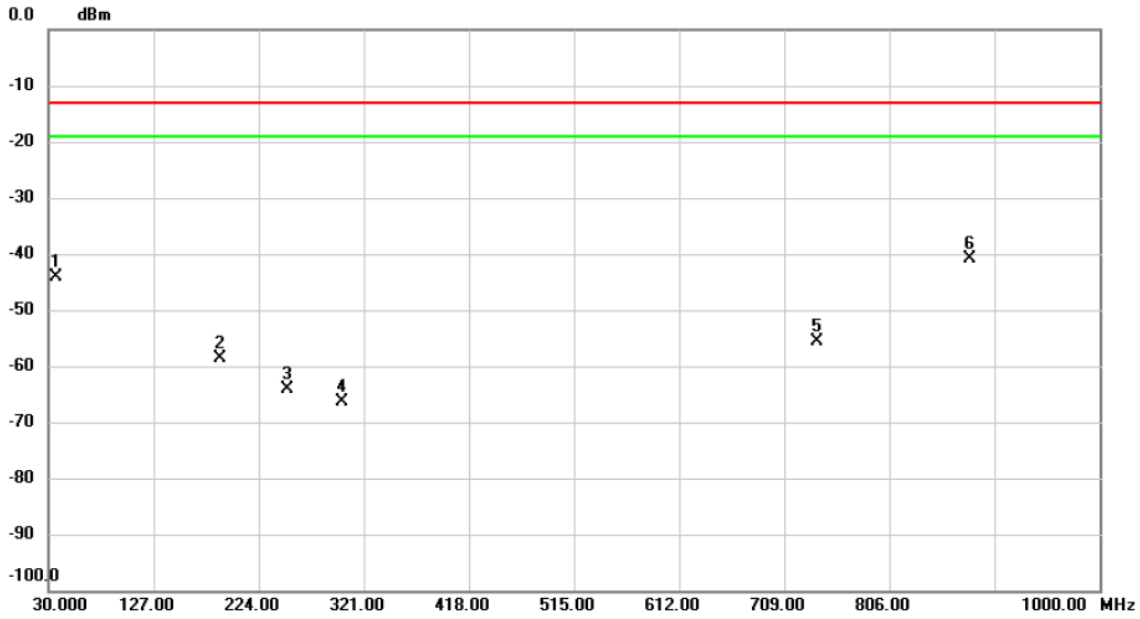
Test Mode	LTE Band 5	Test Date	2022/10/21
Test Channel	CH20525	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	36.6607	-56.89	22.60	-34.29	-13.00	-21.29	peak	
2		66.2132	-70.62	17.13	-53.49	-13.00	-40.49	peak	
3		188.5302	-72.16	12.77	-59.39	-13.00	-46.39	peak	
4		324.5242	-74.49	9.09	-65.40	-13.00	-52.40	peak	
5		739.1992	-67.09	9.99	-57.10	-13.00	-44.10	peak	
6		877.6507	-50.46	10.51	-39.95	-13.00	-26.95	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

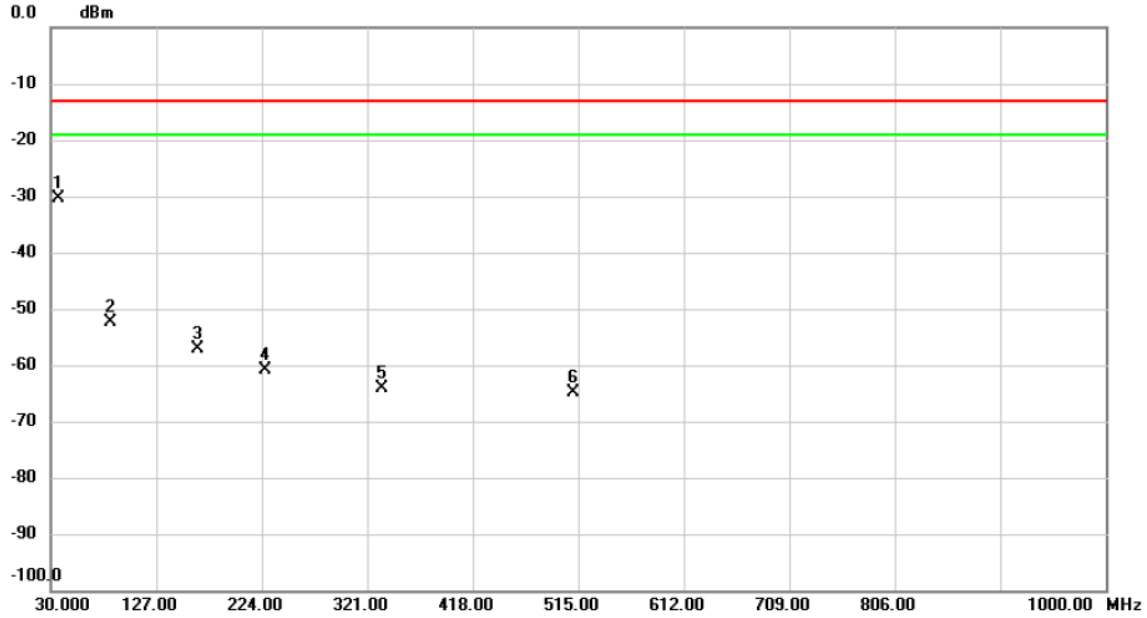
Test Mode	LTE Band 5	Test Date	2022/10/21
Test Channel	CH20525	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		36.9517	-68.06	24.02	-44.04	-13.00	-31.04	peak	
2		188.0453	-66.83	8.20	-58.63	-13.00	-45.63	peak	
3		250.0283	-71.34	7.12	-64.22	-13.00	-51.22	peak	
4		300.7593	-72.73	6.40	-66.33	-13.00	-53.33	peak	
5		739.0053	-64.82	9.15	-55.67	-13.00	-42.67	peak	
6	*	879.9787	-50.44	9.46	-40.98	-13.00	-27.98	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

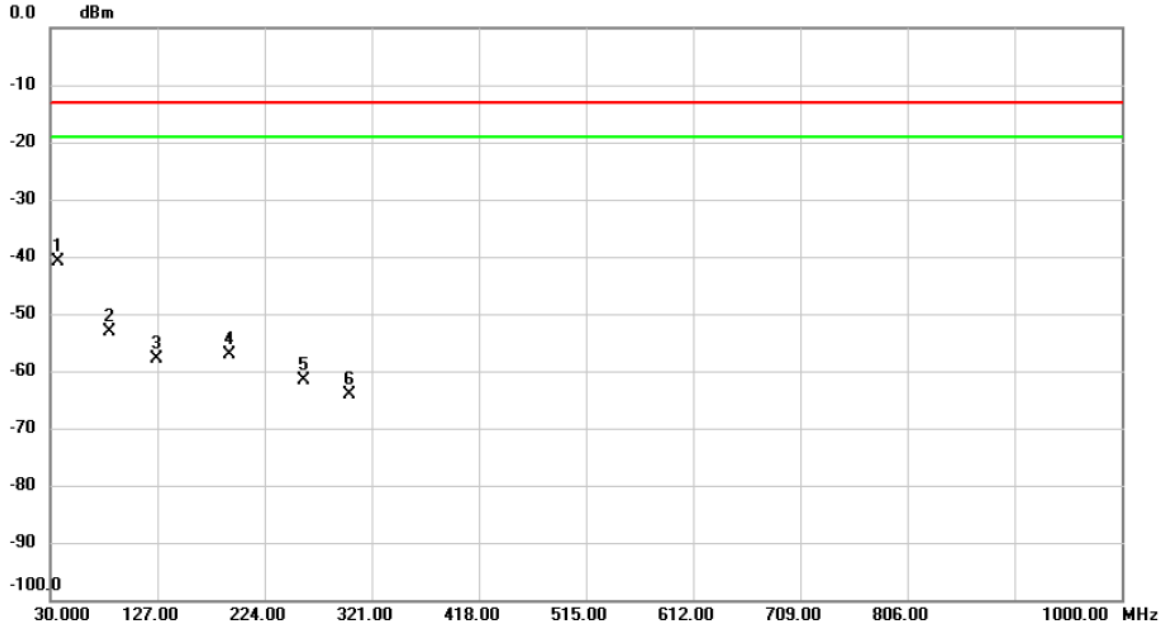
Test Mode	LTE Band 26	Test Date	2022/10/21
Test Channel	CH26915	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	37.2103	-55.18	24.85	-30.33	-13.00	-17.33	peak	
2		84.4170	-71.83	19.42	-52.41	-13.00	-39.41	peak	
3		165.3473	-75.73	18.50	-57.23	-13.00	-44.23	peak	
4		227.1363	-75.44	14.52	-60.92	-13.00	-47.92	peak	
5		334.3860	-75.36	11.16	-64.20	-13.00	-51.20	peak	
6		510.1500	-75.98	11.07	-64.91	-13.00	-51.91	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

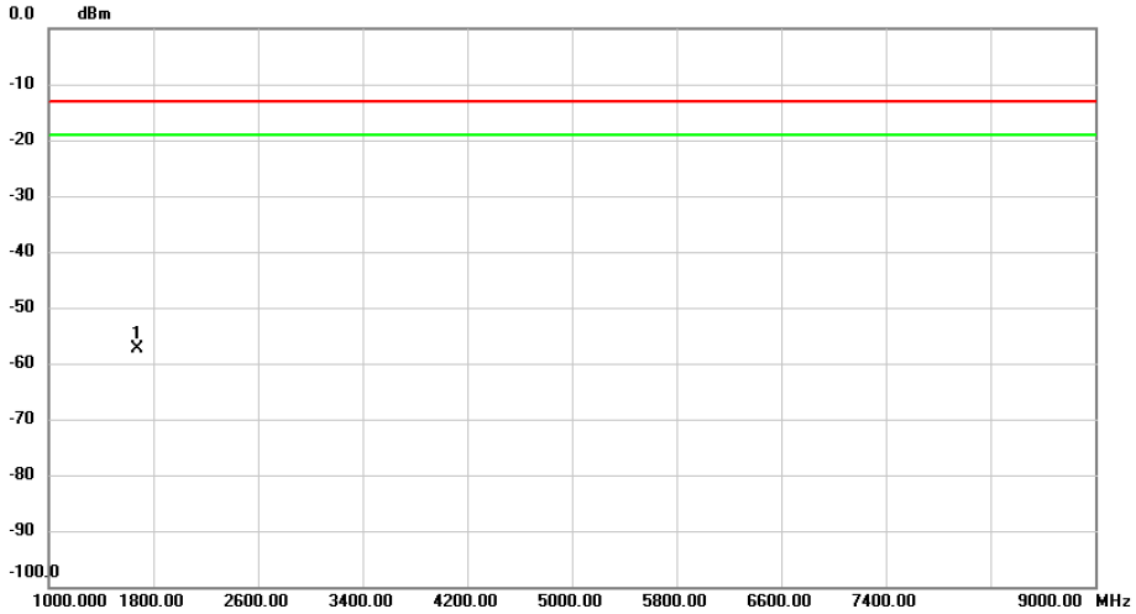
Test Mode	LTE Band 26	Test Date	2022/10/21
Test Channel	CH26915	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	36.9517	-67.09	26.17	-40.92	-13.00	-27.92	peak	
2		84.0613	-71.35	18.16	-53.19	-13.00	-40.19	peak	
3		126.7736	-73.68	15.93	-57.75	-13.00	-44.75	peak	
4		192.4427	-66.64	9.47	-57.17	-13.00	-44.17	peak	
5		259.8577	-70.79	9.12	-61.67	-13.00	-48.67	peak	
6		300.8240	-72.77	8.55	-64.22	-13.00	-51.22	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

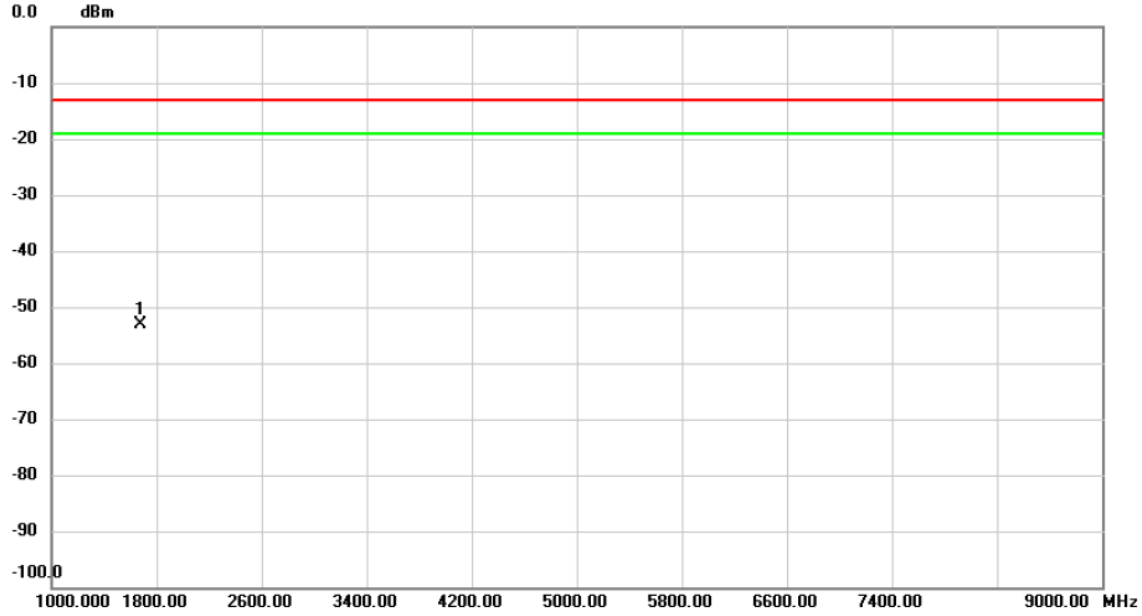
Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.867	-62.00	4.53	-57.47	-13.00	-44.47	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

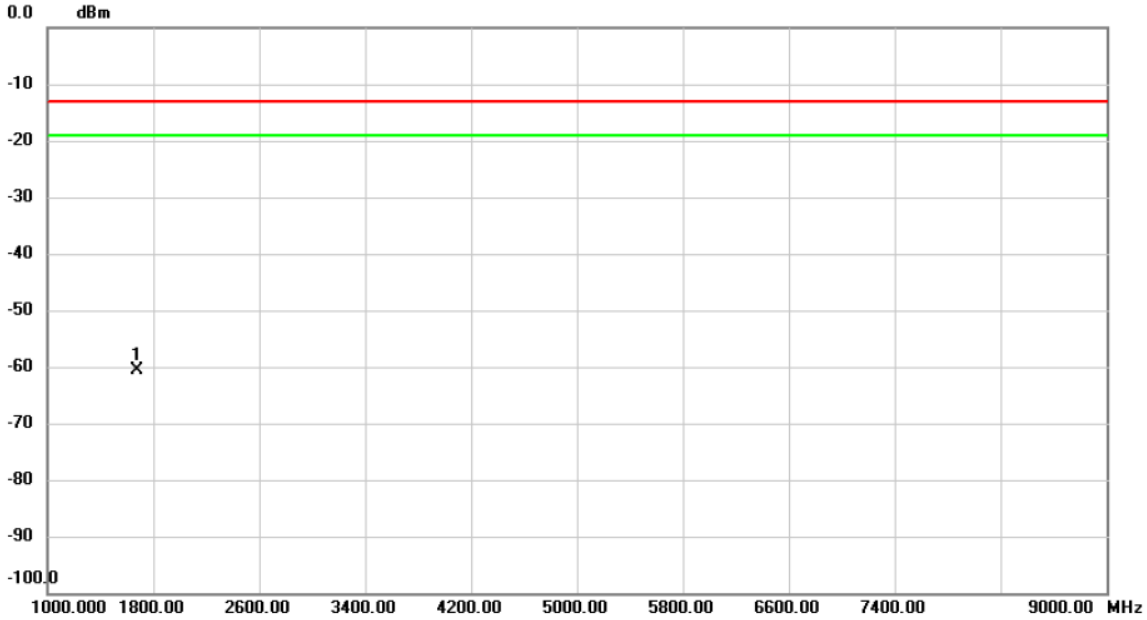
Test Mode	GSM 850	Test Date	2022/10/19
Test Channel	CH190	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.600	-57.61	4.52	-53.09	-13.00	-40.09	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

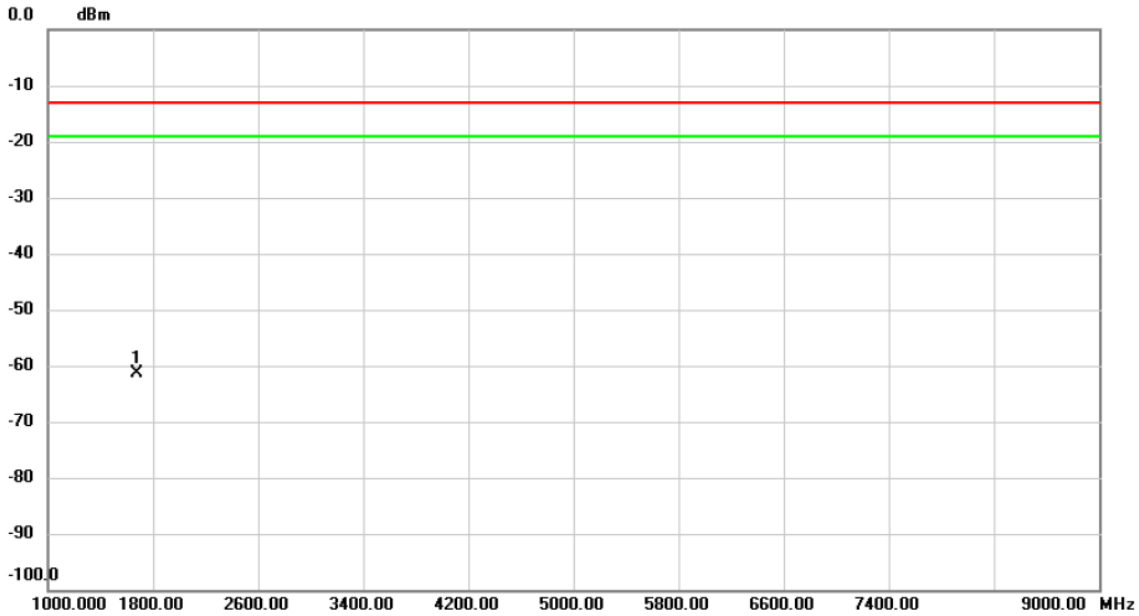
Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1672.800	-65.16	4.53	-60.63	-13.00	-47.63	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

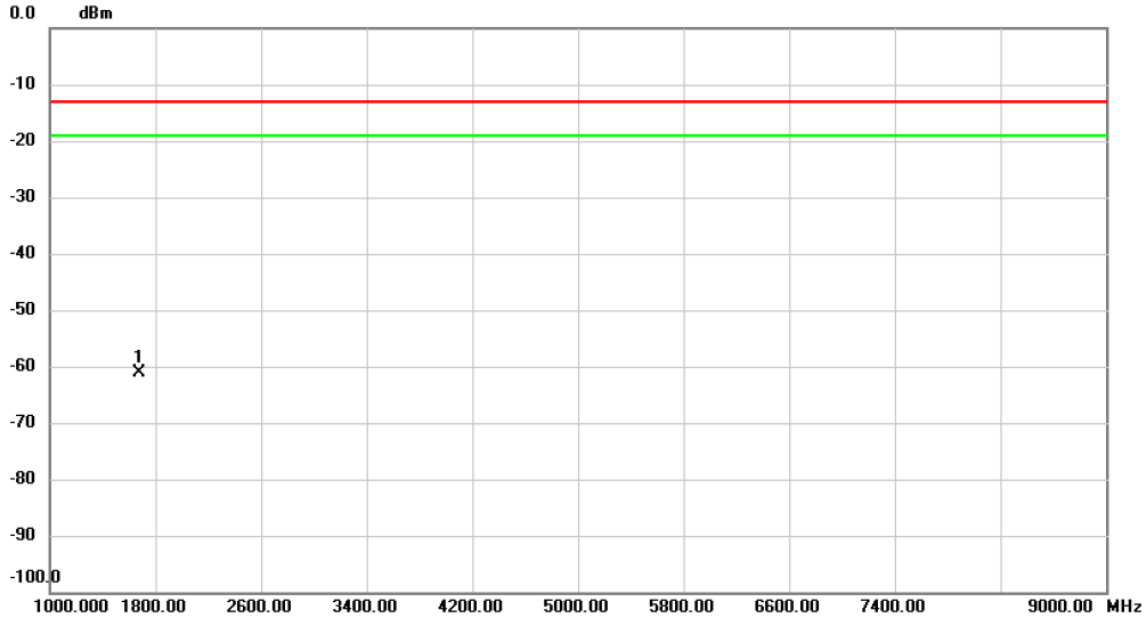
Test Mode	WCDMA Band V	Test Date	2022/10/19
Test Channel	CH4183	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1672.800	-65.90	4.52	-61.38	-13.00	-48.38	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

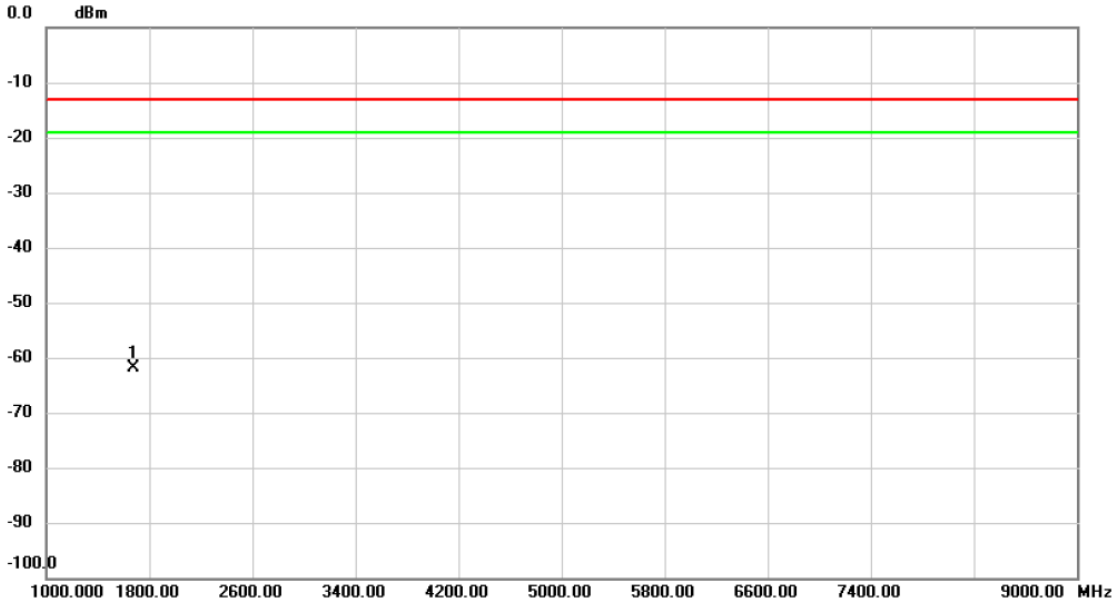
Test Mode	LTE Band 5	Test Date	2022/10/20
Test Channel	CH20525	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-65.74	4.53	-61.21	-13.00	-48.21	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

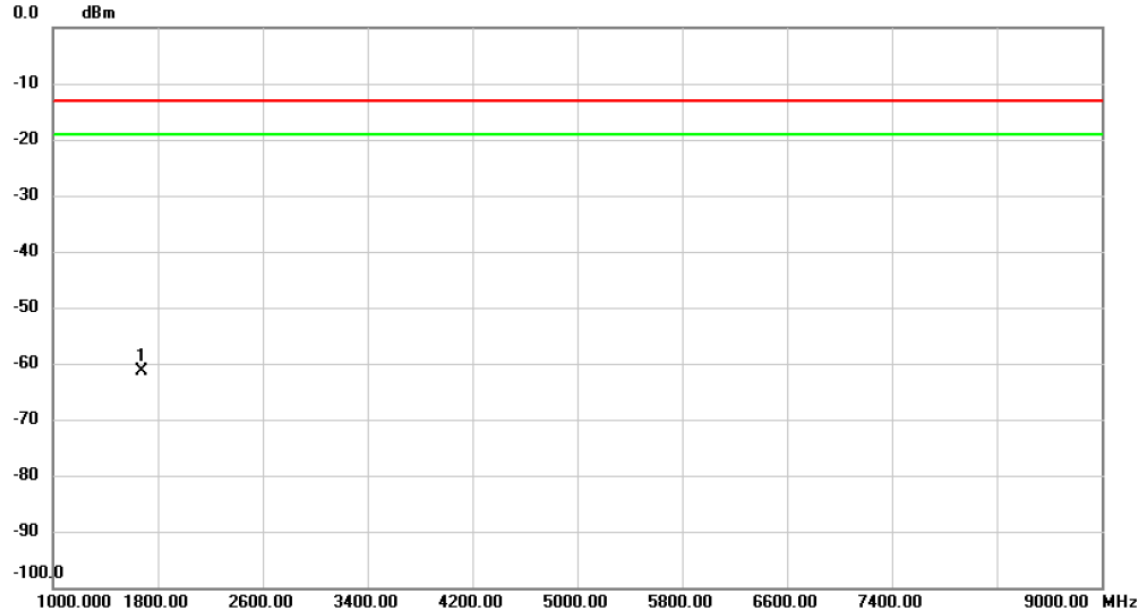
Test Mode	LTE Band 5	Test Date	2022/10/20
Test Channel	CH20525	Polarization	Horizontal
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.44	4.52	-61.92	-13.00	-48.92	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

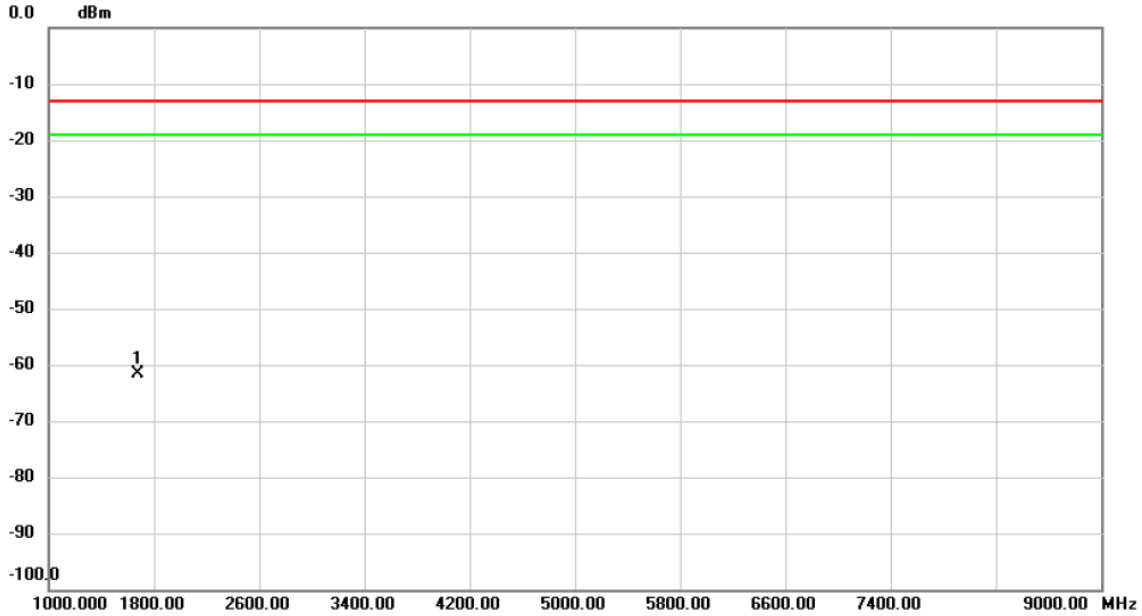
Test Mode	LTE Band 26	Test Date	2022/10/20
Test Channel	CH26915	Polarization	Vertical
Temp	23°C	Hum.	59%



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.00	4.53	-61.47	-13.00	-48.47	peak	

REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

Test Mode	LTE Band 26	Test Date	2022/10/20
Test Channel	CH26915	Polarization	Horizontal
Temp	23°C	Hum.	59%

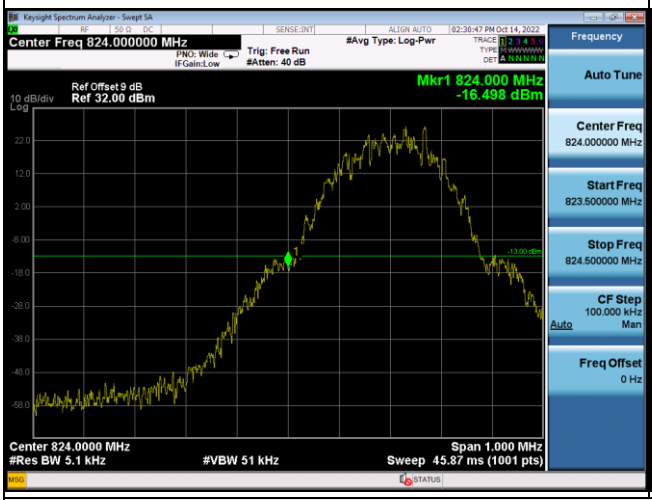


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1673.000	-66.24	4.52	-61.72	-13.00	-48.72	peak	

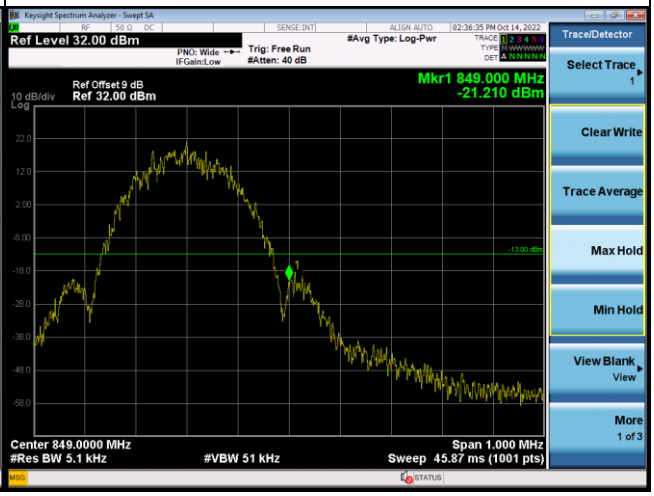
REMARKS:
(1) Measurement Value = Reading Level + Correct Factor.
(2) Margin Level = Measurement Value - Limit Value.

APPENDIX E BAND EDGE

GSM850_GSM Spectrum Plot			
Channel	128	Channel	251



GSM850_EDGE Spectrum Plot			
Channel	128	Channel	251



WCDMA Band V_WCDMA Spectrum Plot			
Channel	4132	Channel	4233