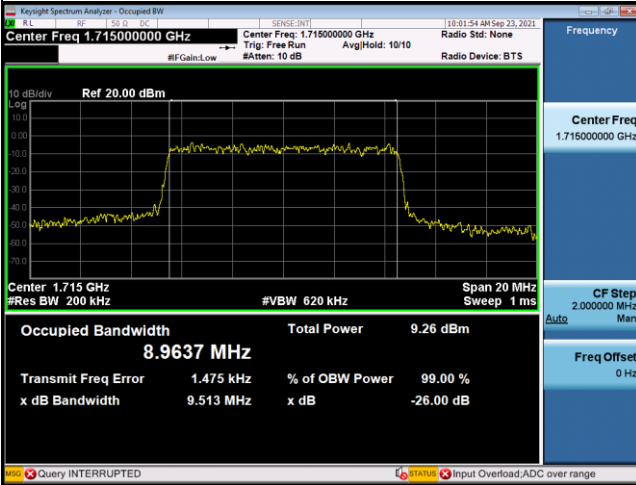
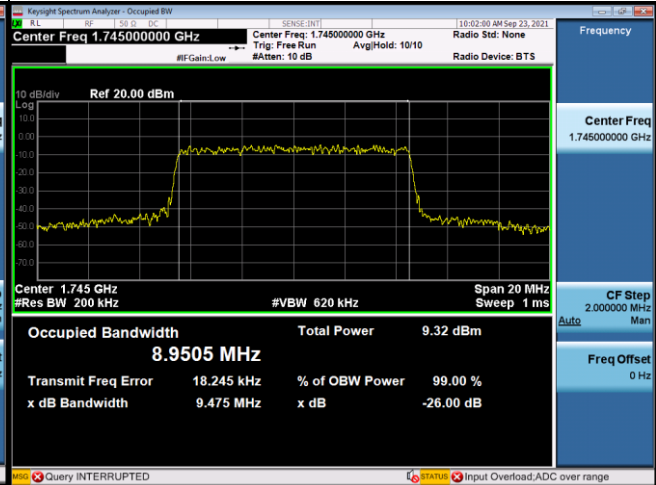


## Spectrum Plot

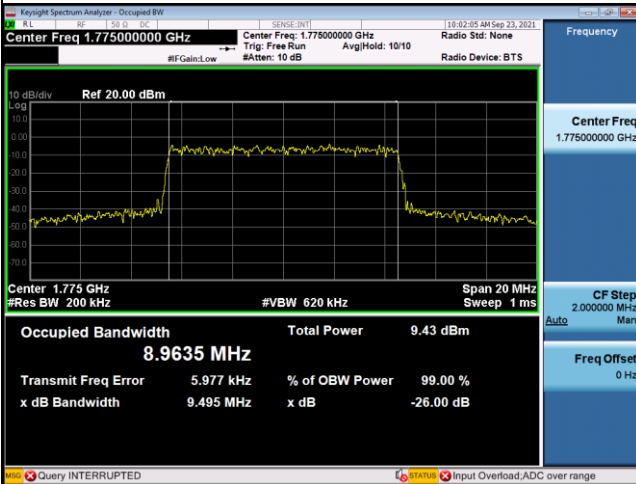
### QPSK-132022



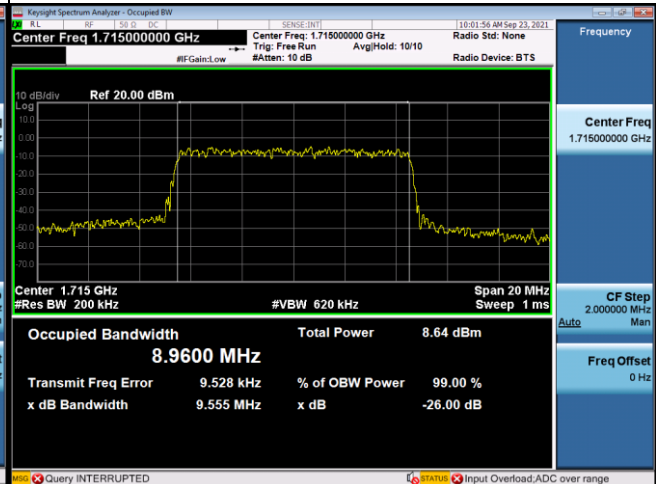
### QPSK-132322



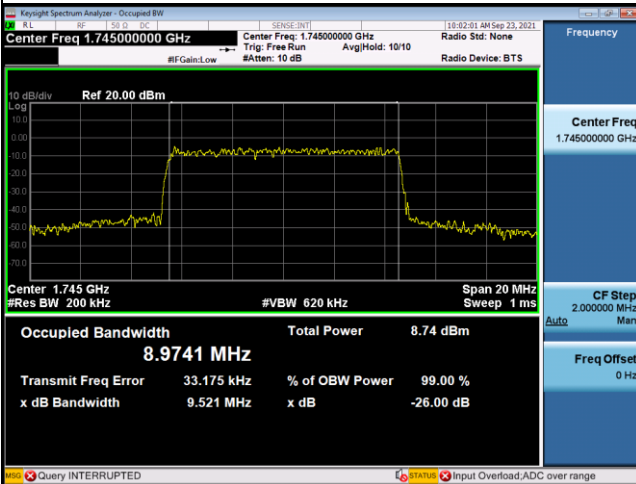
### QPSK-132622



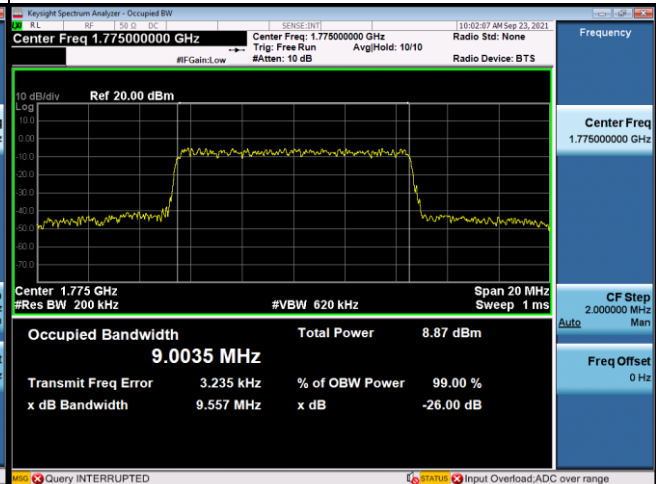
### 16QAM-132022



### 16QAM-132322

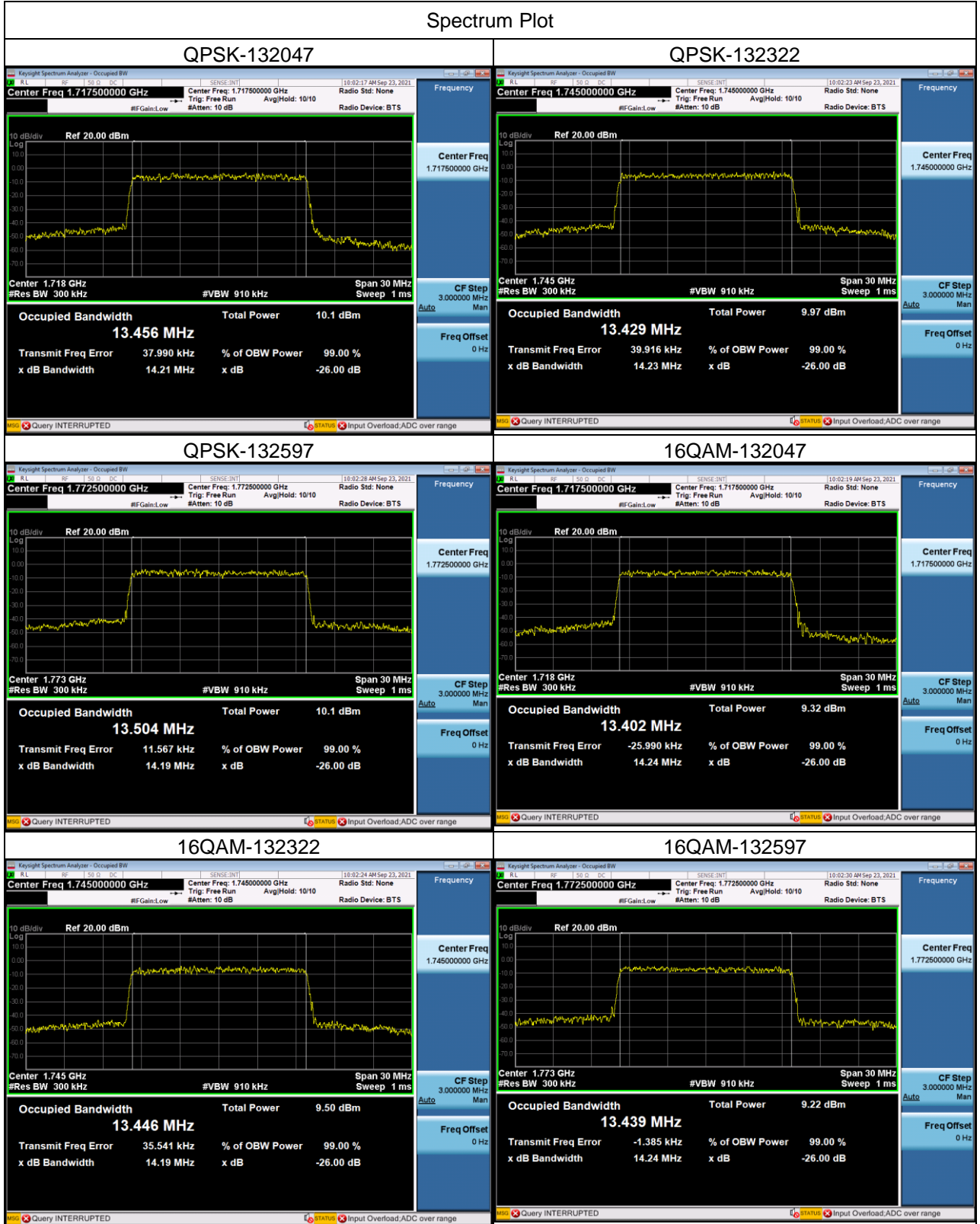


### 16QAM-132622



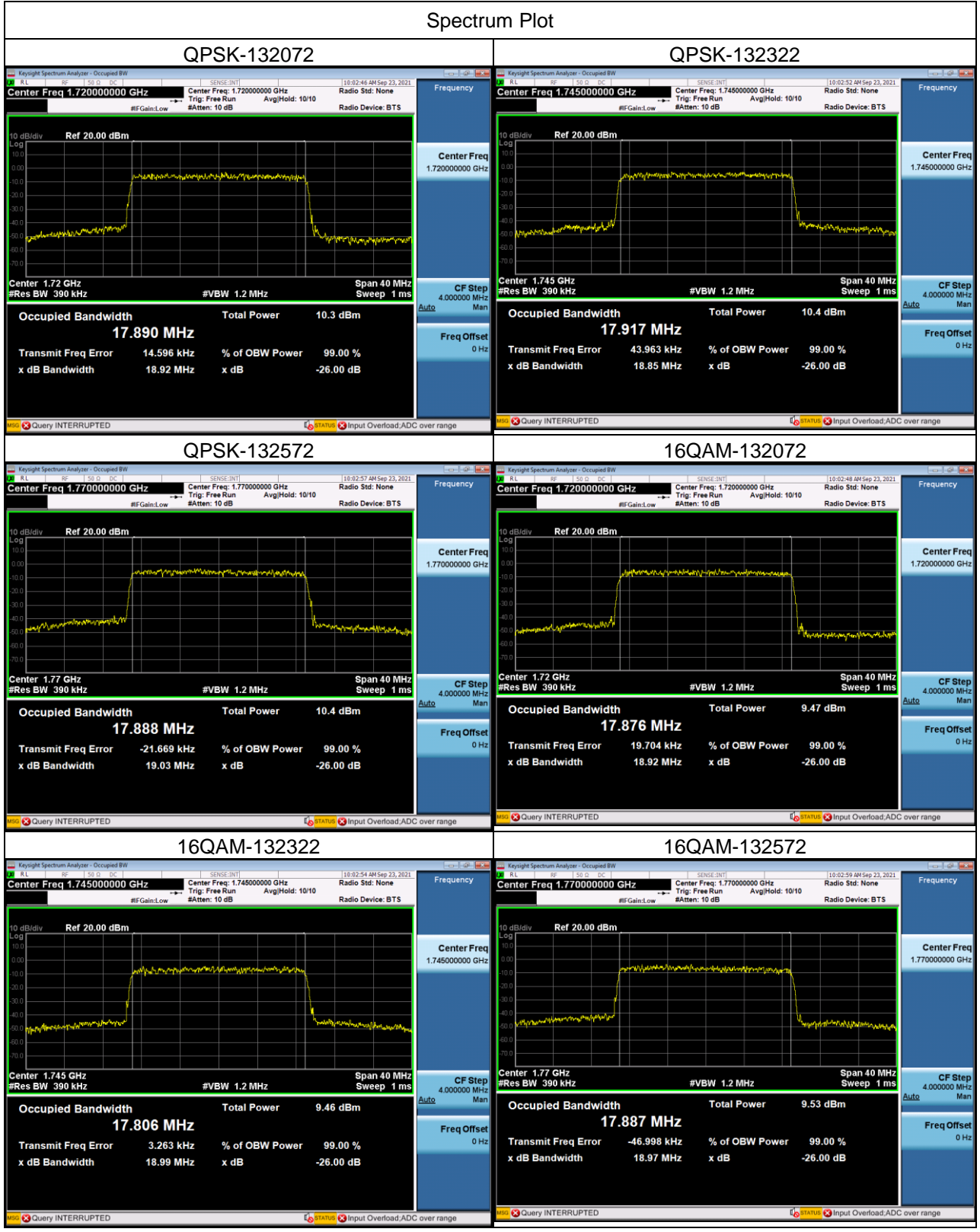
LTE Band 66_15M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
132047	1717.5	13.456	132047	1717.5	14.21
132322	1745	13.429	132322	1745	14.23
132597	1772.5	13.504	132597	1772.5	14.19
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
132047	1717.5	13.402	132047	1717.5	14.24
132322	1745	13.446	132322	1745	14.19
132597	1772.5	13.439	132597	1772.5	14.24

## Spectrum Plot

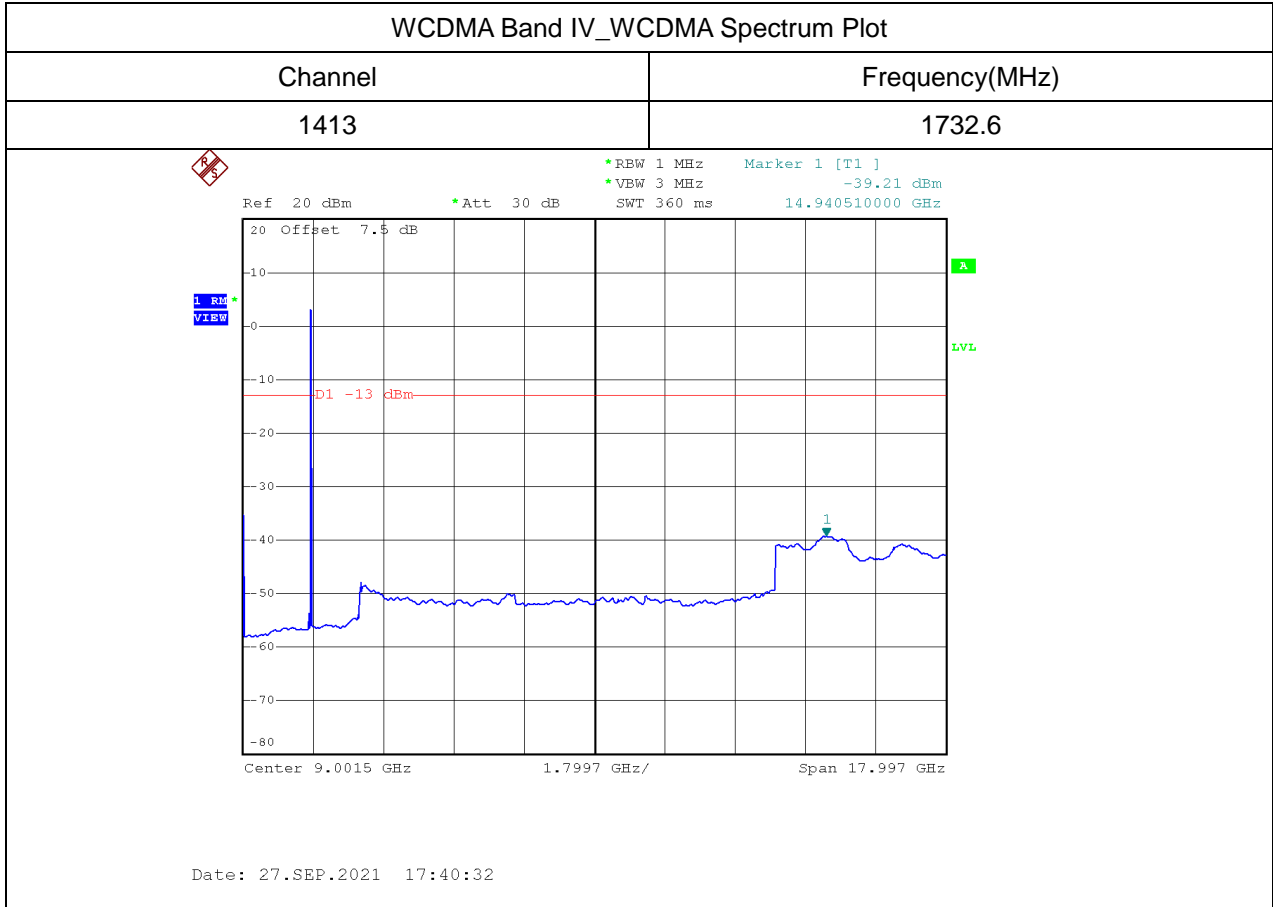


LTE Band 66_20M					
QPSK					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
132072	1720	17.890	132072	1720	18.92
132322	1745	17.917	132322	1745	18.85
132572	1770	17.888	132572	1770	19.03
16QAM					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
132072	1720	17.876	132072	1720	18.92
132322	1745	17.806	132322	1745	18.99
132572	1770	17.887	132572	1770	18.97

## Spectrum Plot

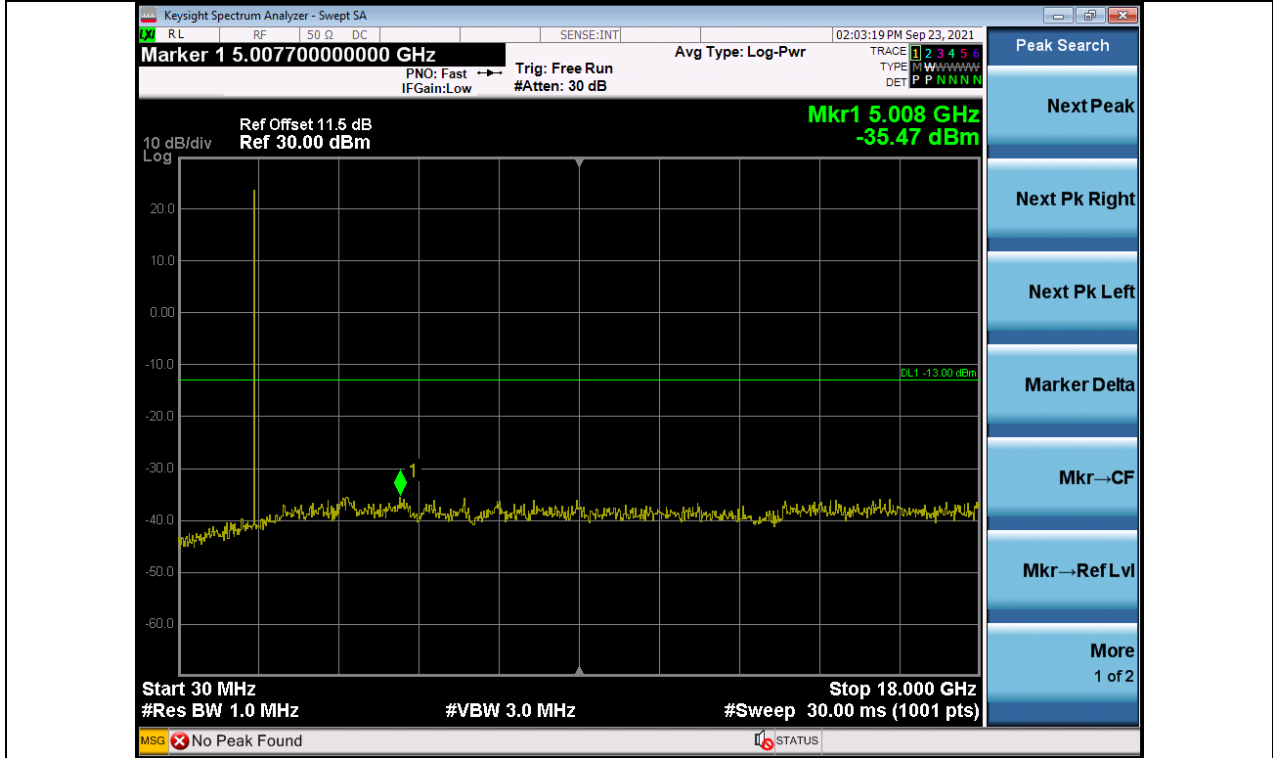


## **APPENDIX D CONDUCTED SPURIOUS EMISSIONS**



## LTE Band 4\_1.4M Spectrum Plot

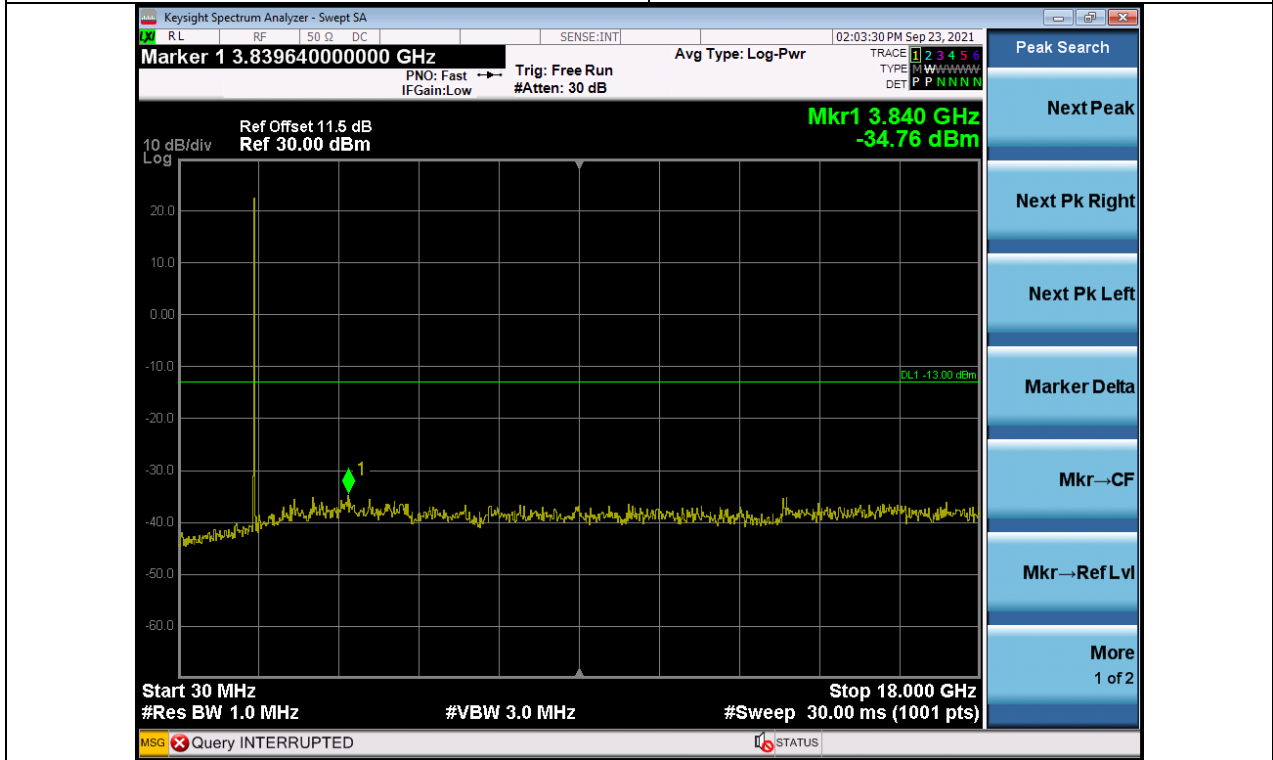
Channel	Frequency(MHz)
20175	1732.5





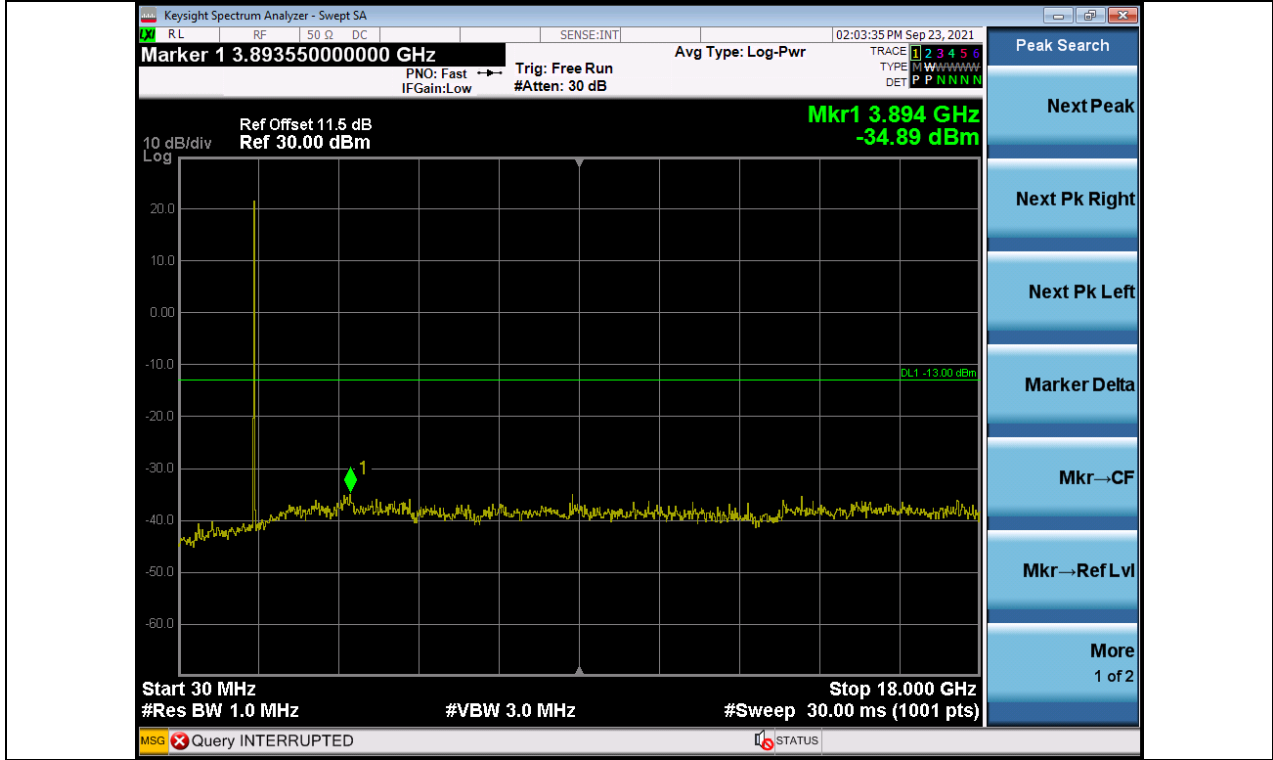
## LTE Band 4\_3M Spectrum Plot

Channel	Frequency(MHz)
20175	1732.5



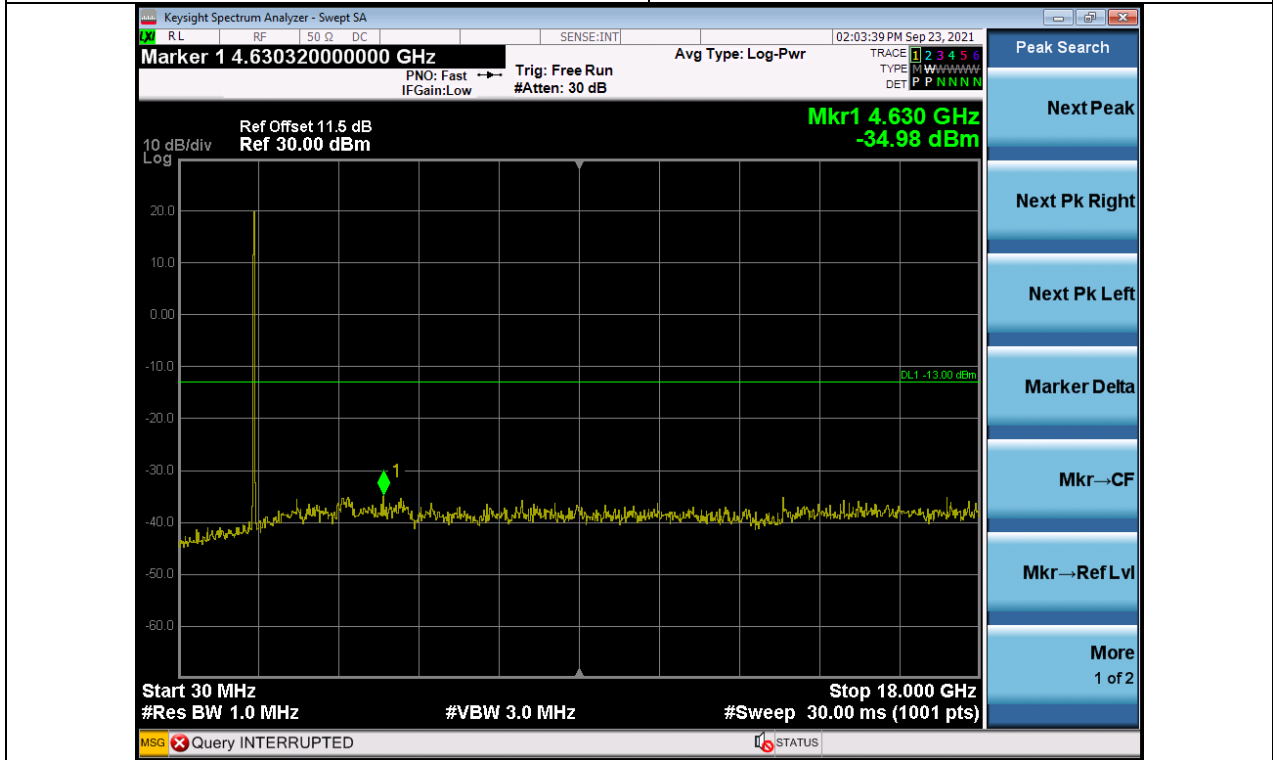
## LTE Band 4\_5M Spectrum Plot

Channel	Frequency(MHz)
20175	1732.5



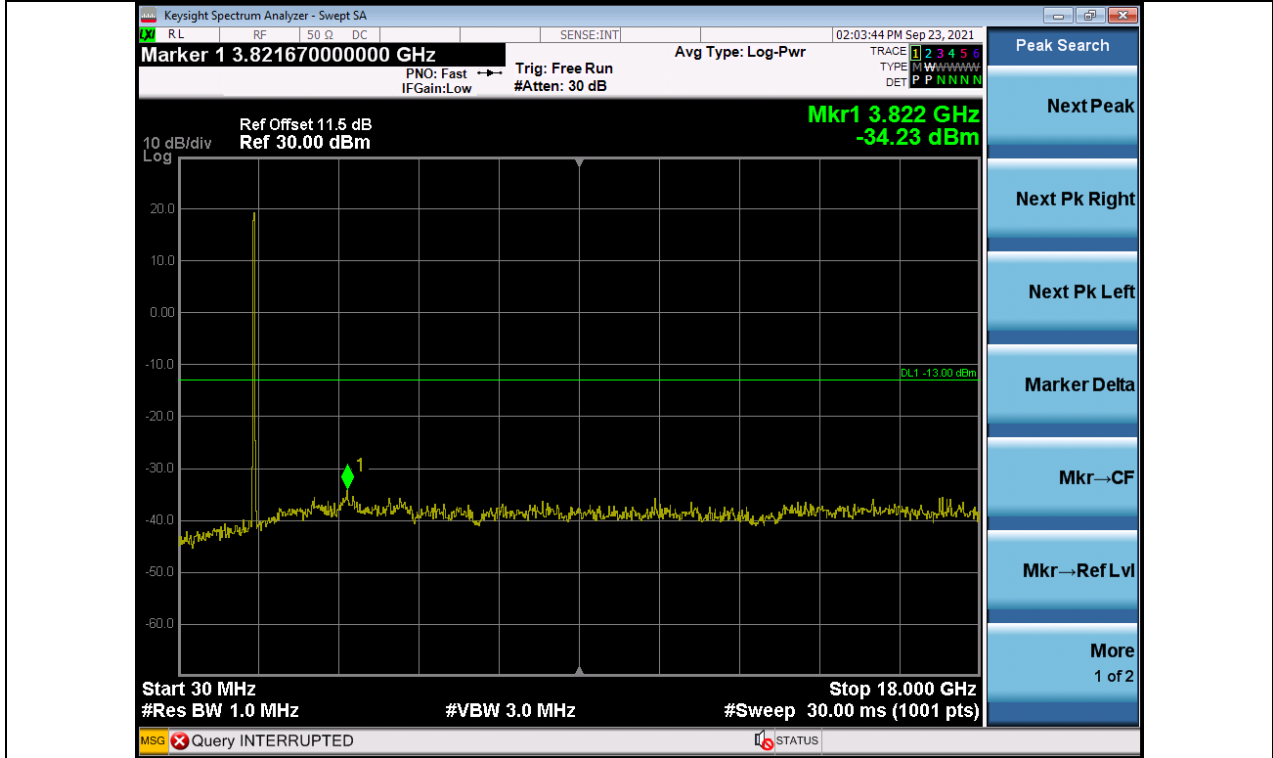
## LTE Band 4\_10M Spectrum Plot

Channel	Frequency(MHz)
20175	1732.5



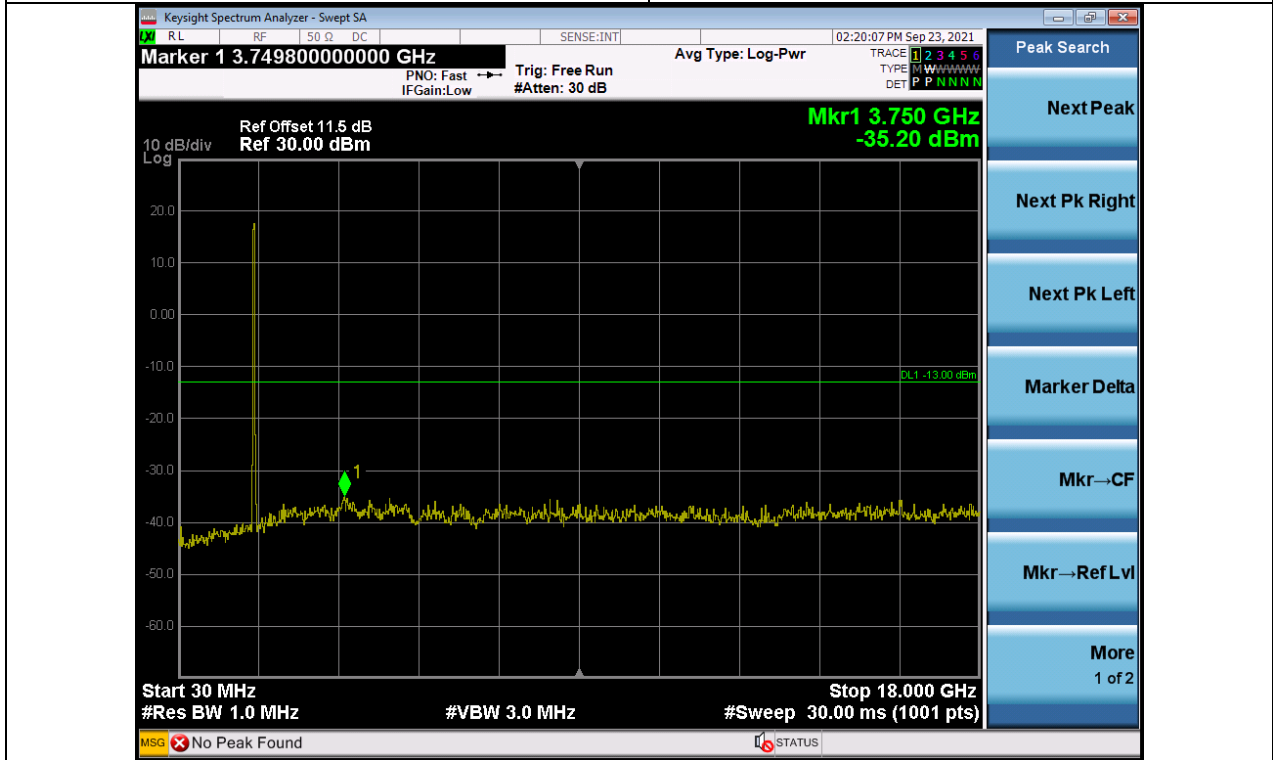
## LTE Band 4\_15M Spectrum Plot

Channel	Frequency(MHz)
20175	1732.5



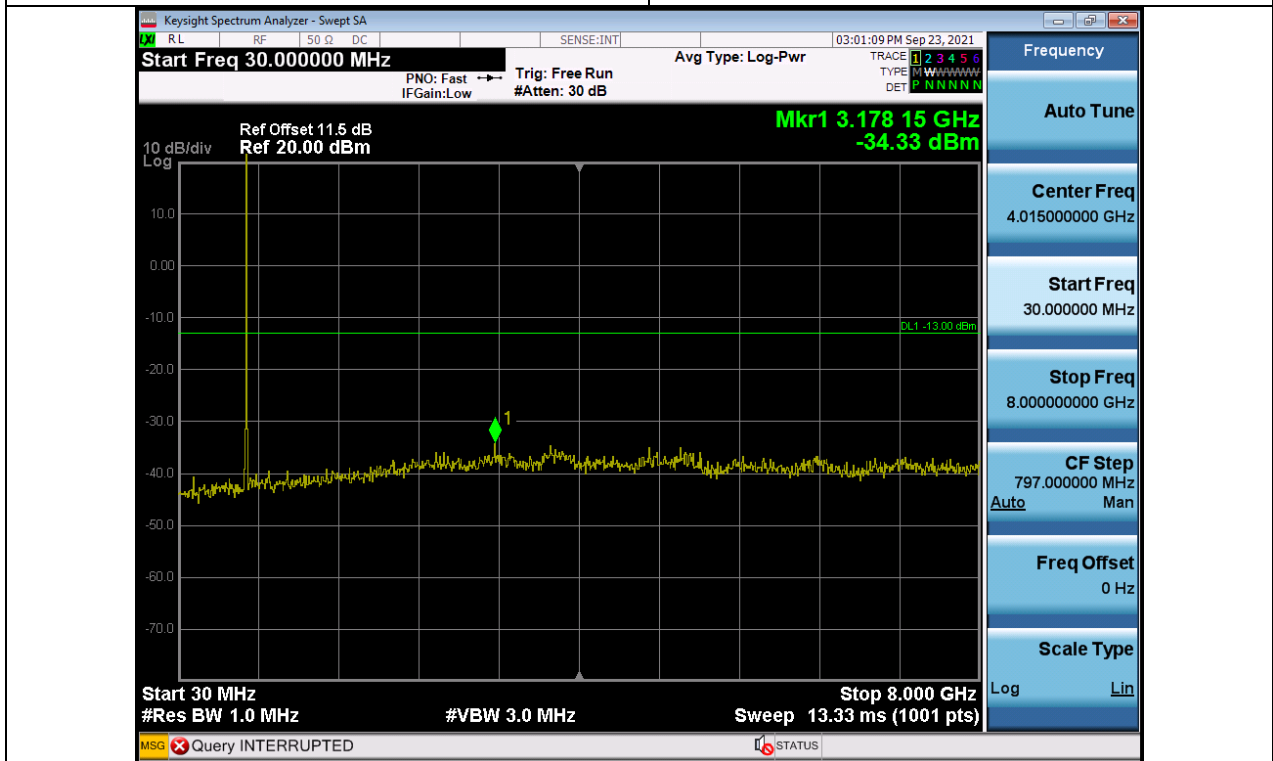
## LTE Band 4\_20M Spectrum Plot

Channel	Frequency(MHz)
20175	1732.5



## LTE Band 12\_1.4M Spectrum Plot

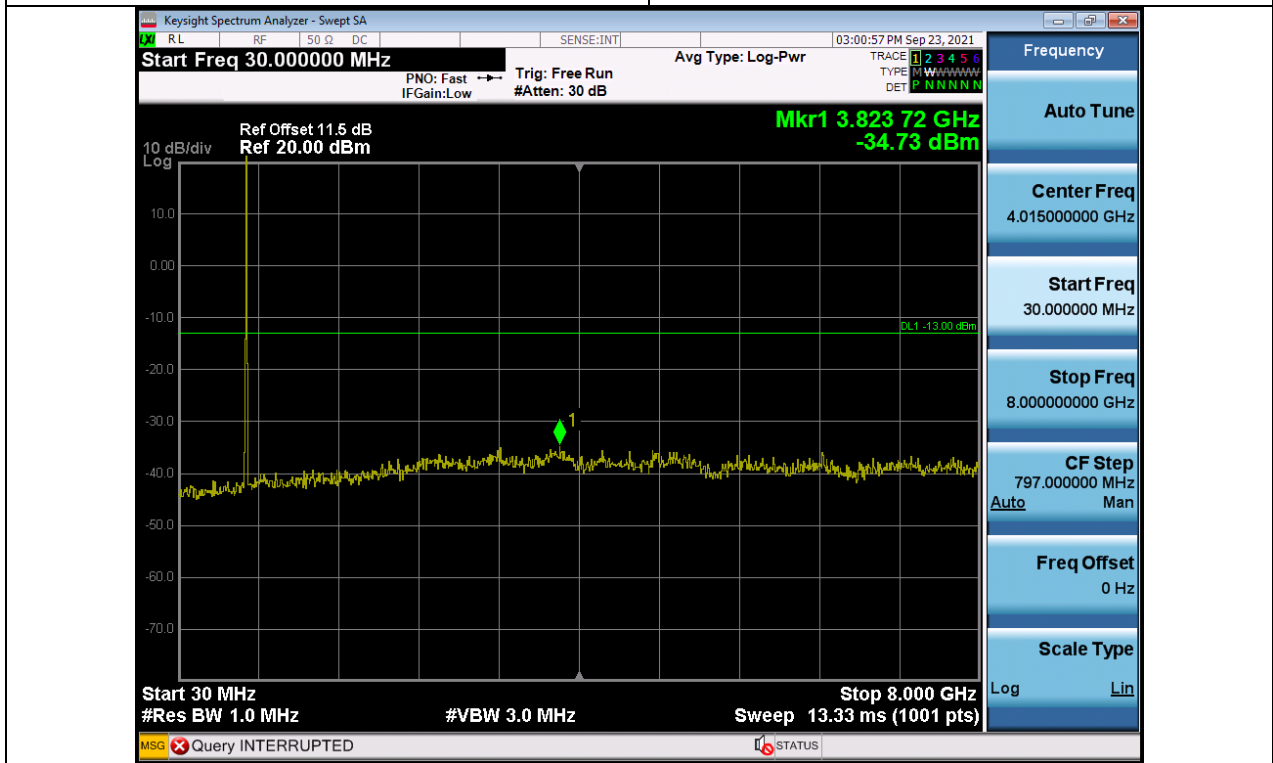
Channel	Frequency(MHz)
23095	707.5





## LTE Band 12\_5M Spectrum Plot

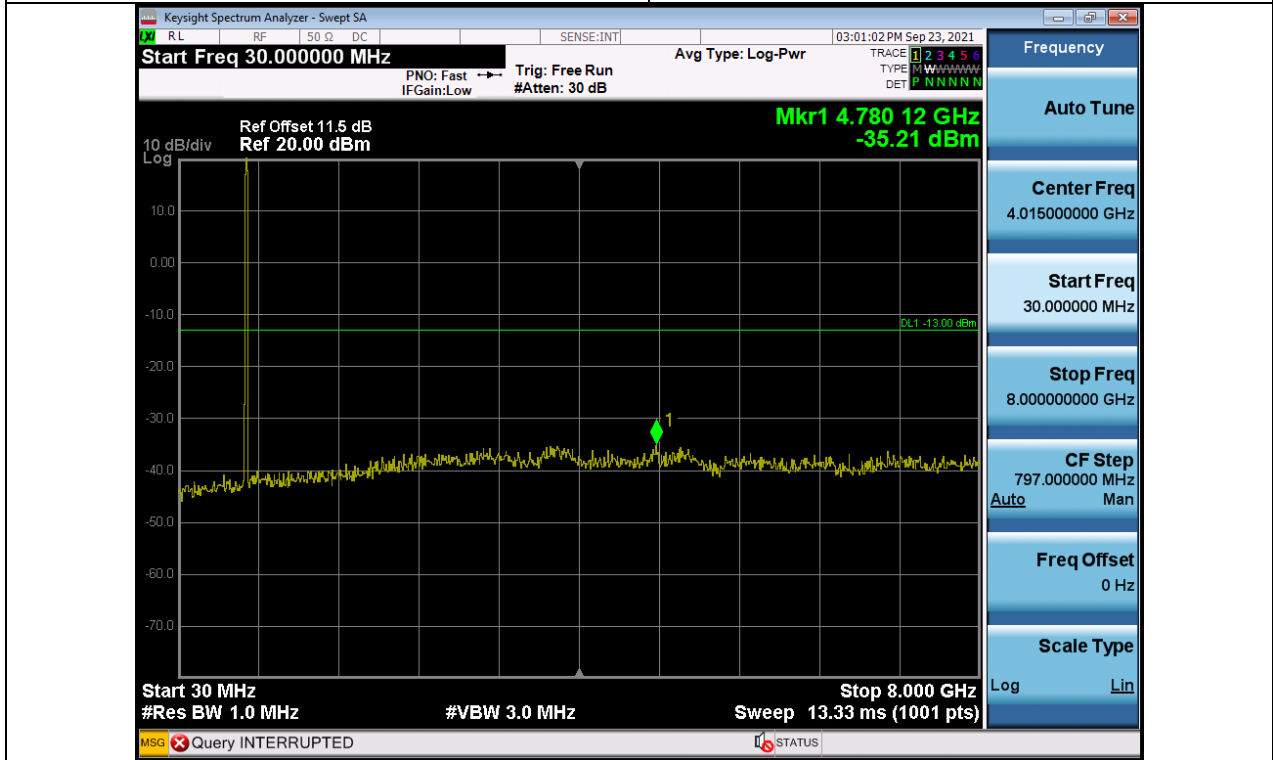
Channel	Frequency(MHz)
23095	707.5

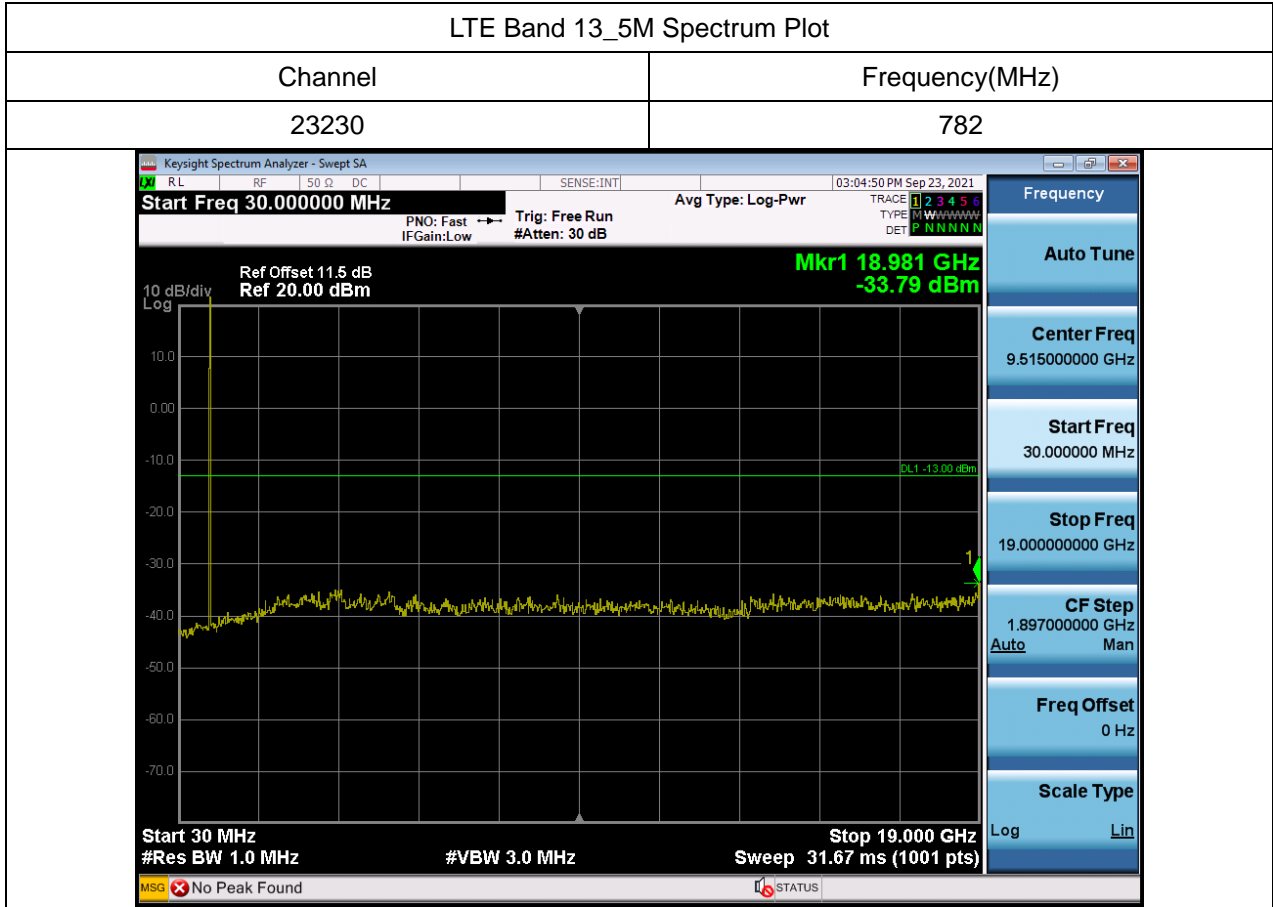




## LTE Band 12\_10M Spectrum Plot

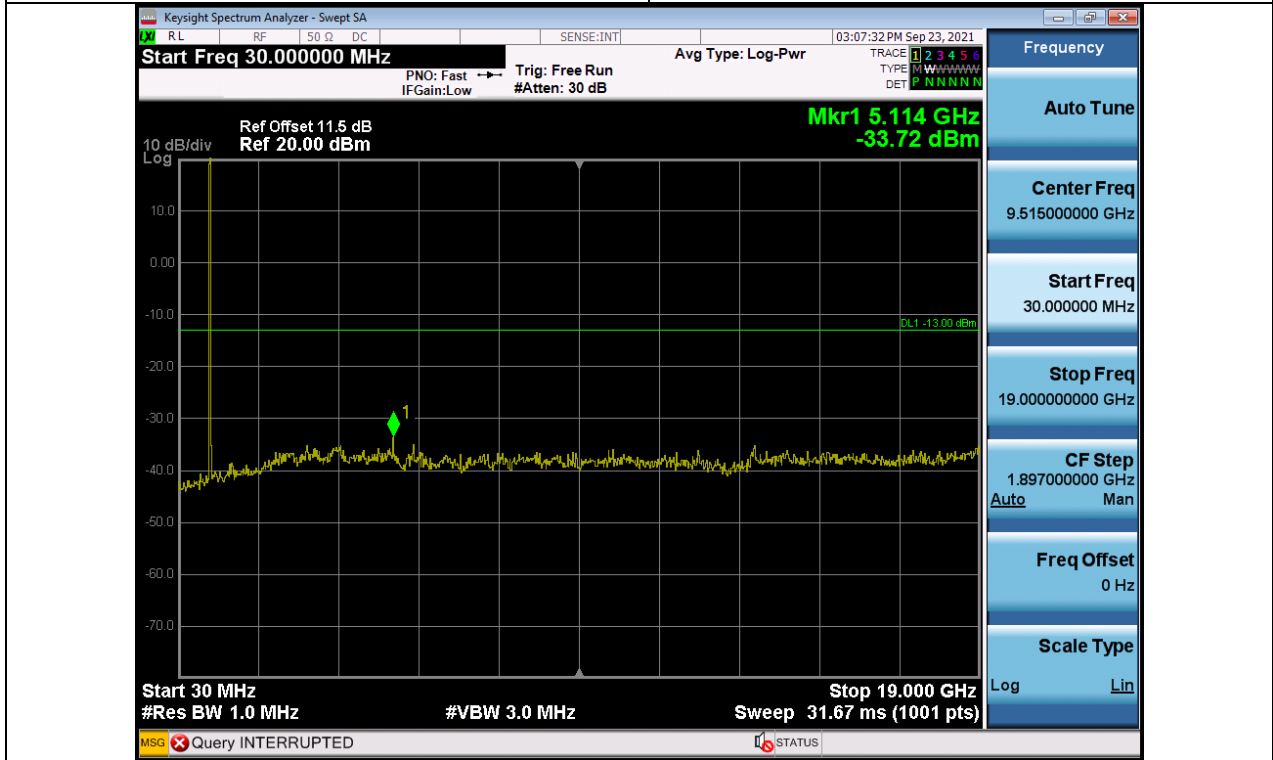
Channel	Frequency(MHz)
23095	782





## LTE Band 13\_10M Spectrum Plot

Channel	Frequency(MHz)
23230	782

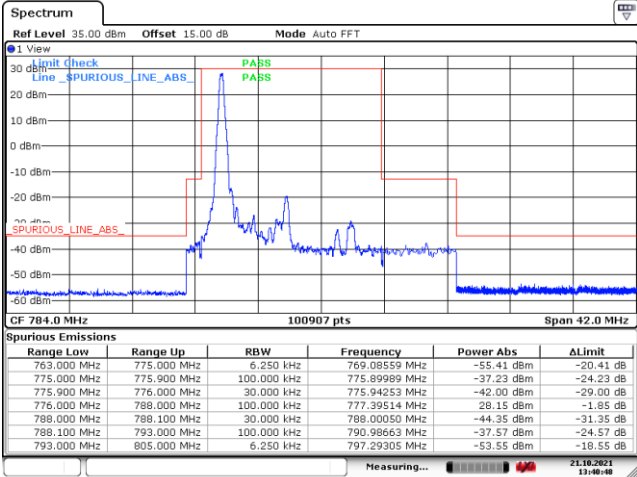


## LTE Band 13\_5M Spectrum Plot

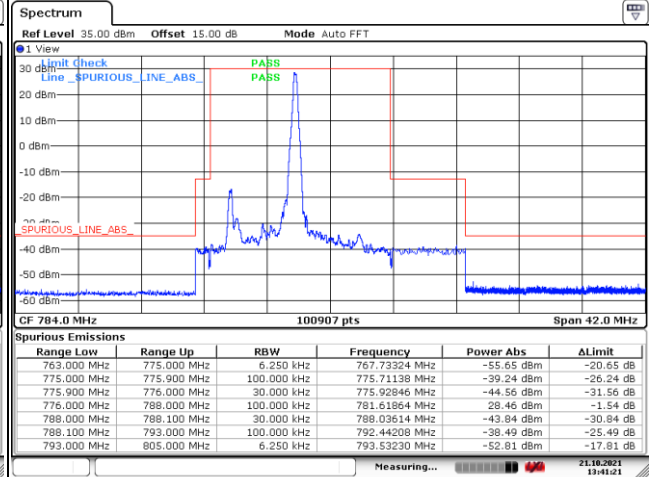
### Channel\_23205

1RB0

1RB24



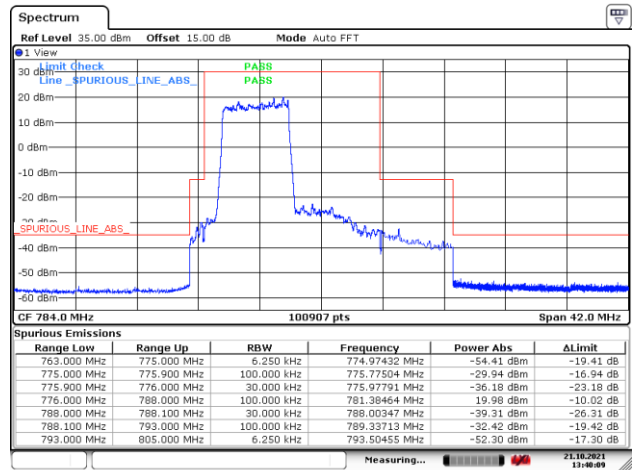
Date: 21.OCT.2021 13:40:49



Date: 21.OCT.2021 13:41:21

25RB0

-



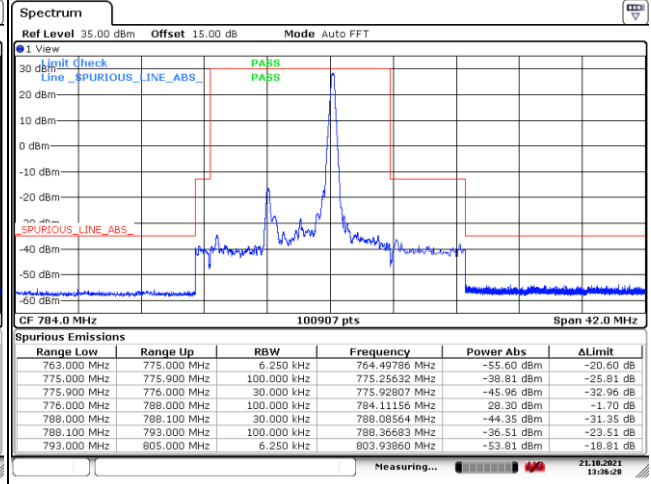
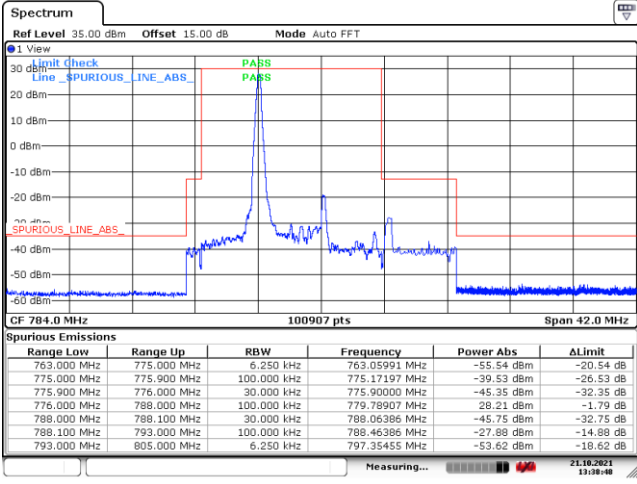
Date: 21.OCT.2021 13:40:09

## LTE Band 13\_5M Spectrum Plot

### Channel\_23230

1RB0

1RB24

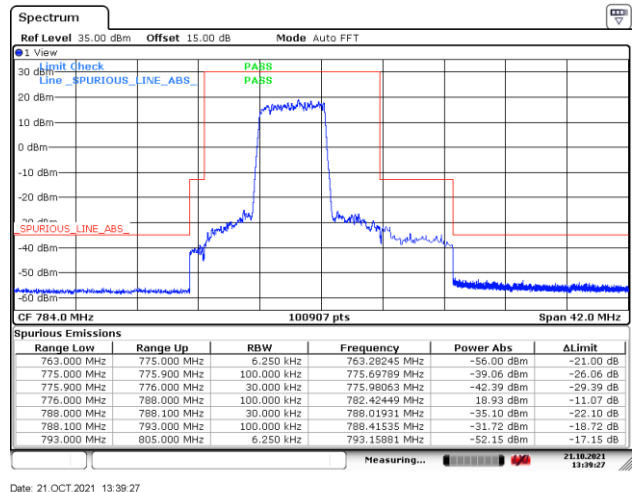


Date: 21.OCT.2021 13:38:48

Date: 21.OCT.2021 13:36:27

25RB0

-



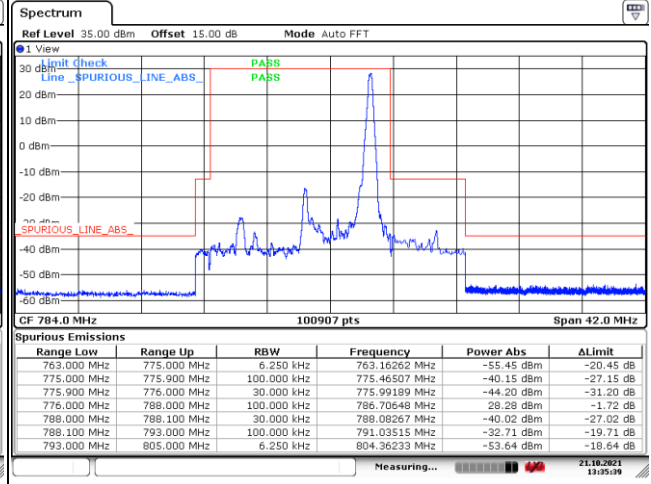
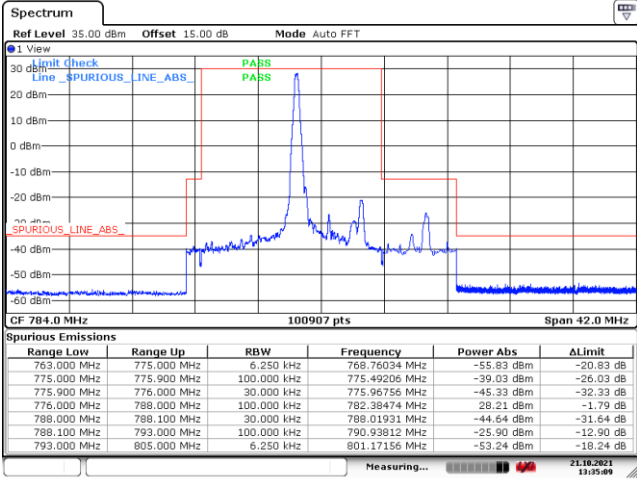
Date: 21.OCT.2021 13:39:27

## LTE Band 13\_5M Spectrum Plot

### Channel\_23255

1RB0

1RB24

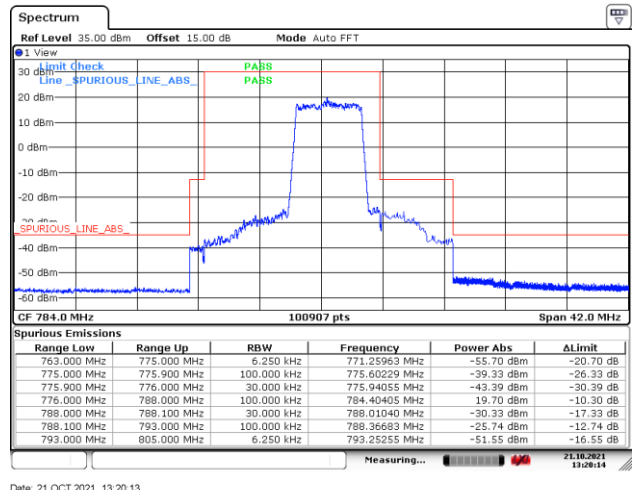


Date: 21.OCT.2021 13:35:08

Date: 21.OCT.2021 13:35:40

25RB0

-



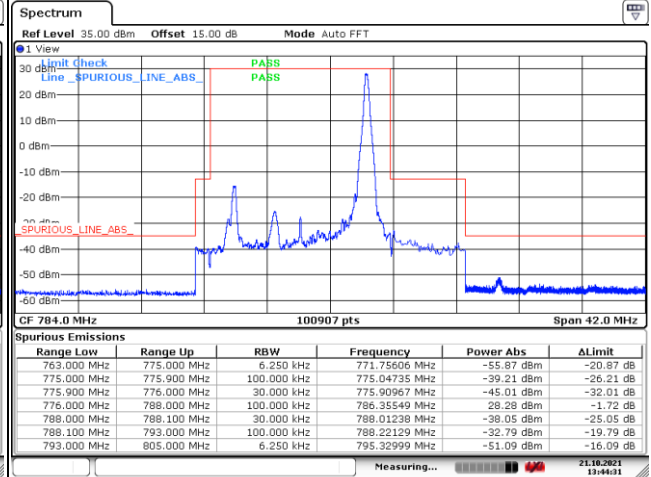
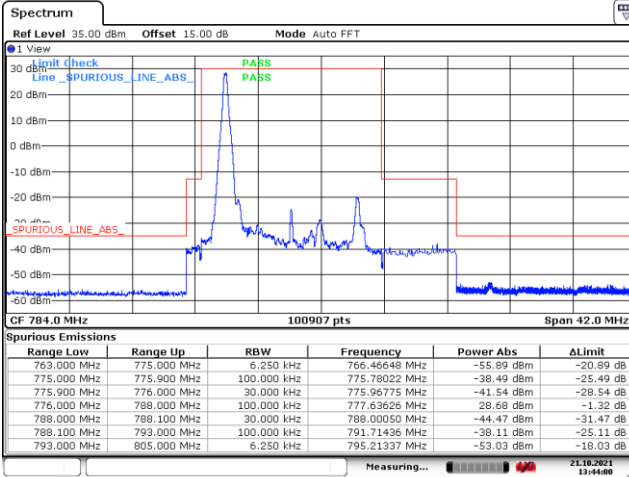
Date: 21.OCT.2021 13:20:13

## LTE Band 13\_10M Spectrum Plot

### Channel\_23230

1RB0

1RB49

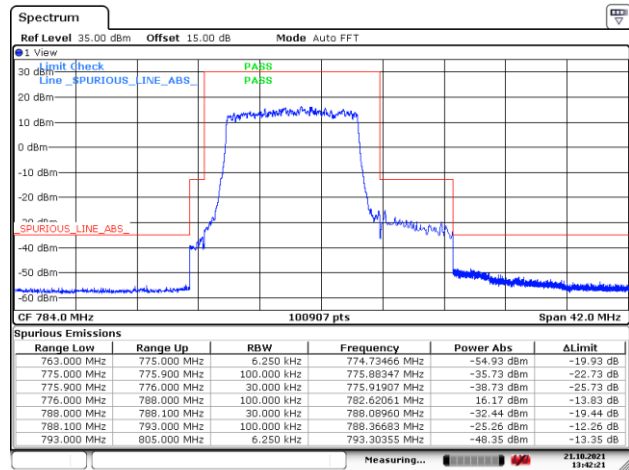


Date: 21.OCT.2021 13:44:00

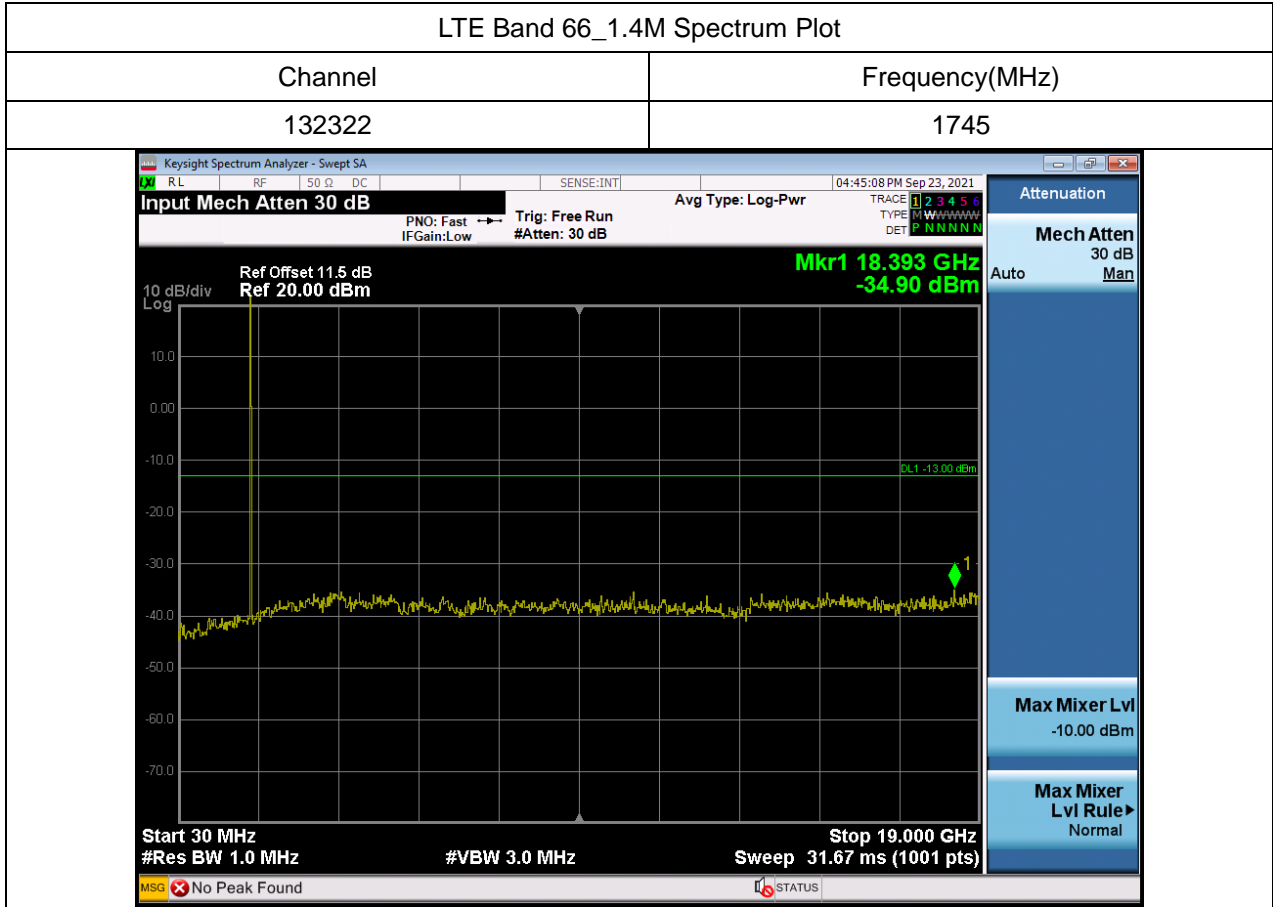
Date: 21.OCT.2021 13:44:31

50RB0

-



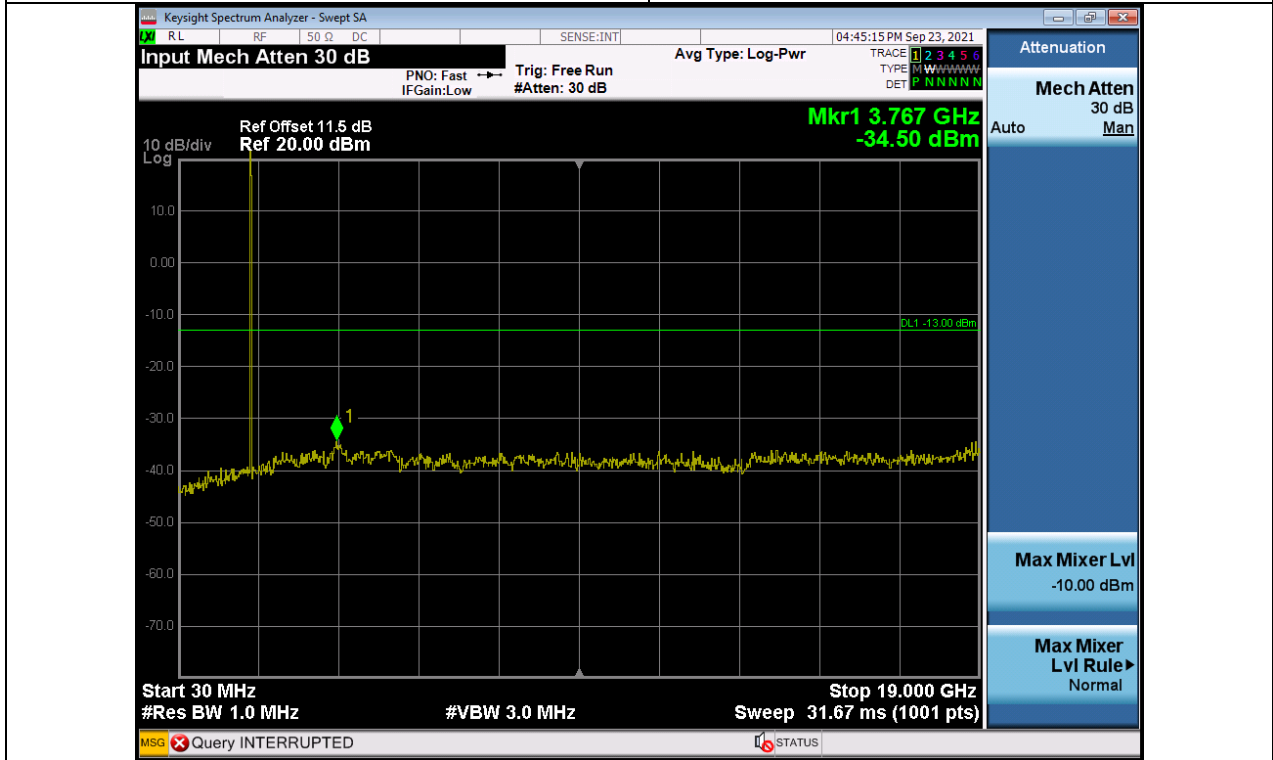
Date: 21.OCT.2021 13:42:21





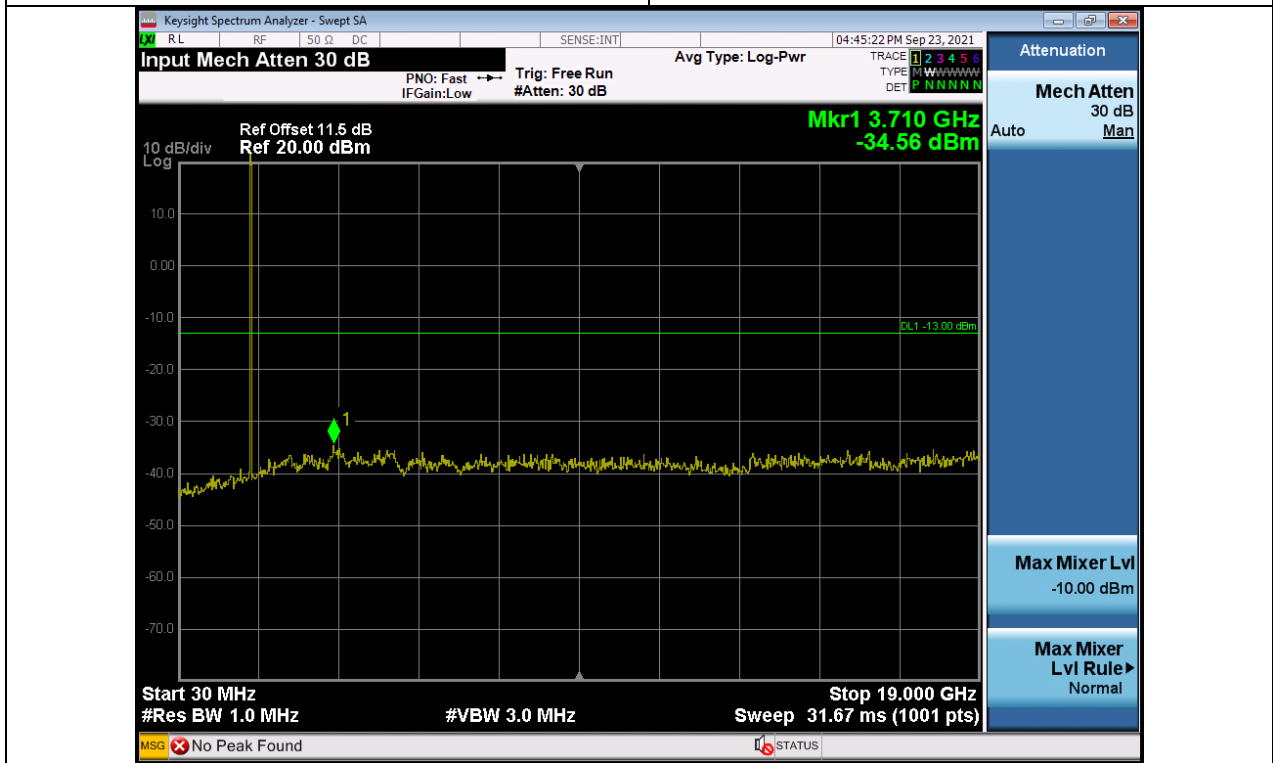
## LTE Band 66\_3M Spectrum Plot

Channel	Frequency(MHz)
132322	1745



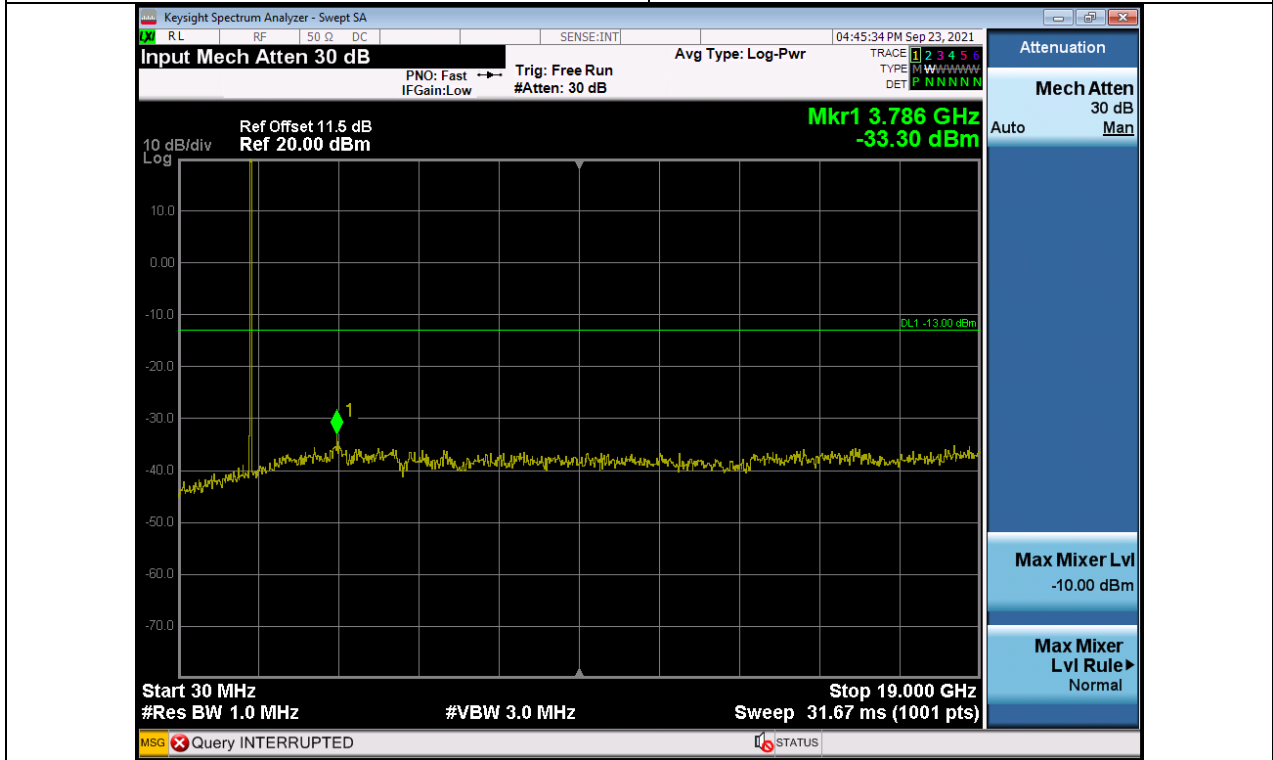
## LTE Band 66\_5M Spectrum Plot

Channel	Frequency(MHz)
132322	1745



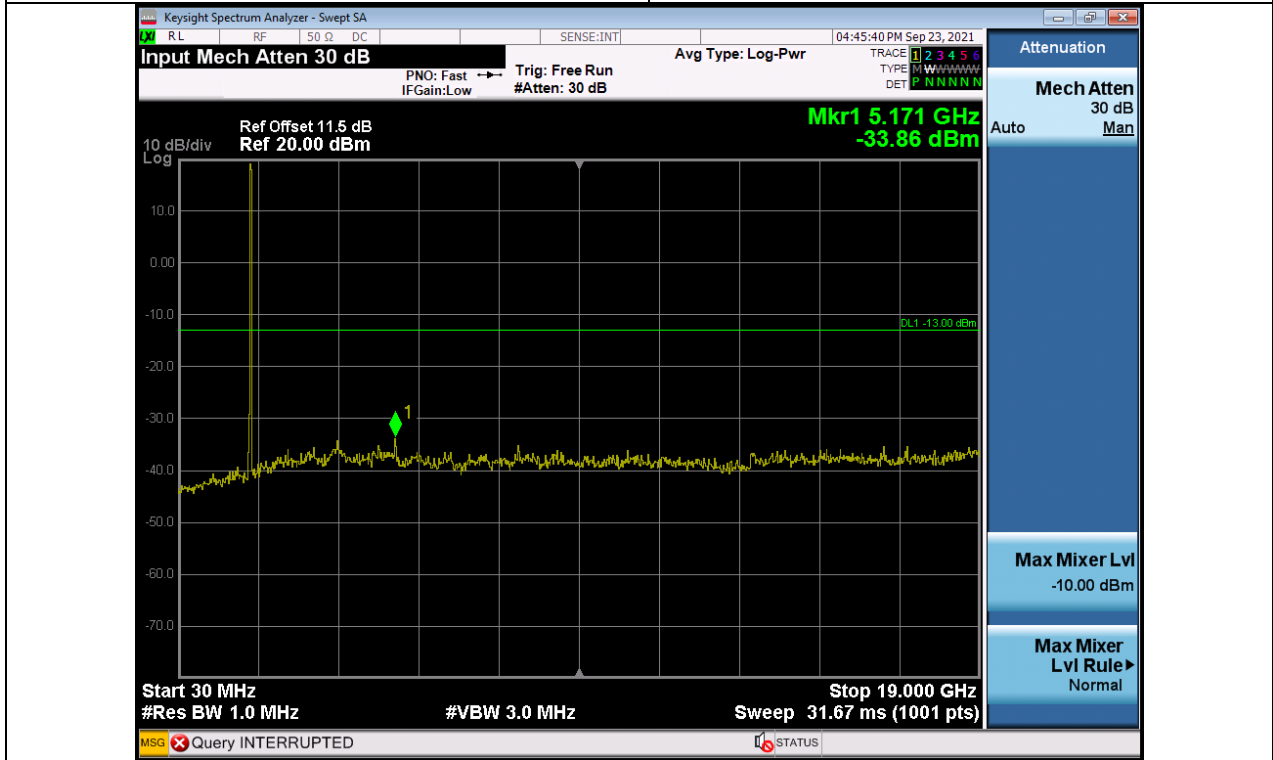
## LTE Band 66\_10M Spectrum Plot

Channel	Frequency(MHz)
132322	1745



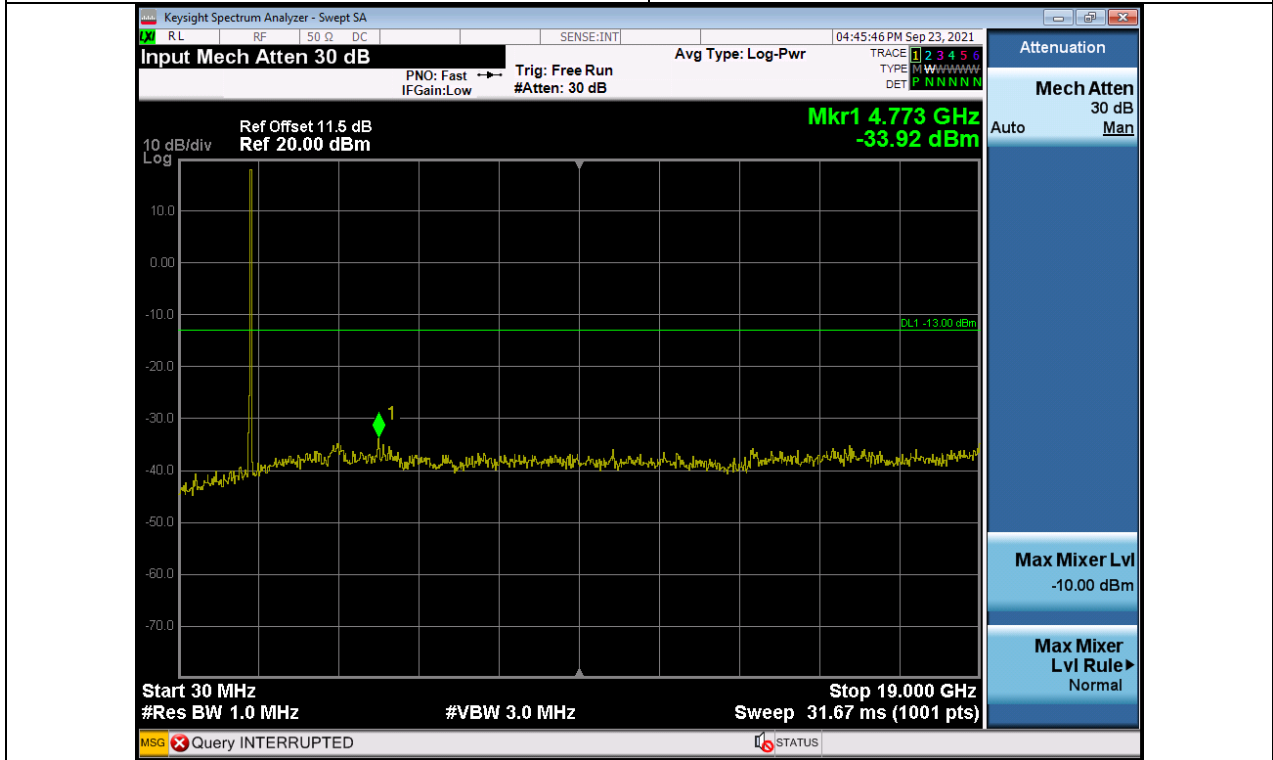
## LTE Band 66\_15M Spectrum Plot

Channel	Frequency(MHz)
132322	1745



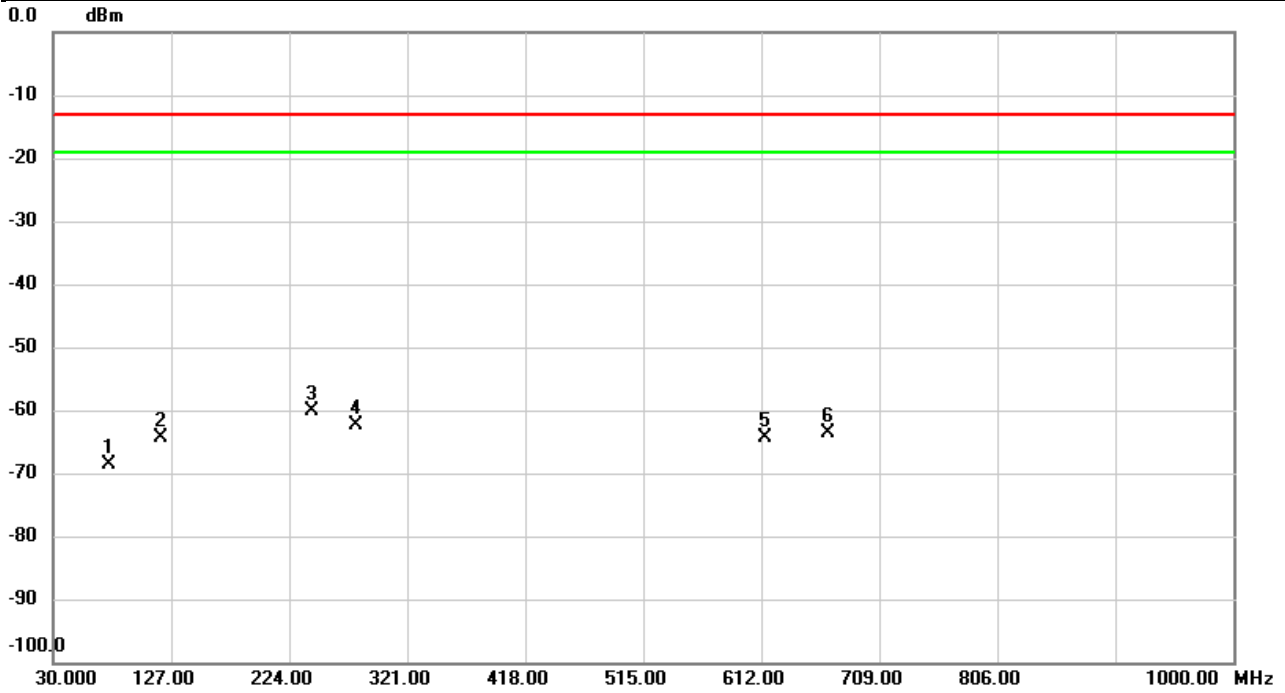
## LTE Band 66\_20M Spectrum Plot

Channel	Frequency(MHz)
132322	1745



## **APPENDIX E    RADIATED SPURIOUS EMISSIONS TEST**

Test Mode	WCDMA Band IV	Test Date	2021/9/17
Test Channel	CH1652	Polarization	Vertical
Temp	25°C	Hum.	52%

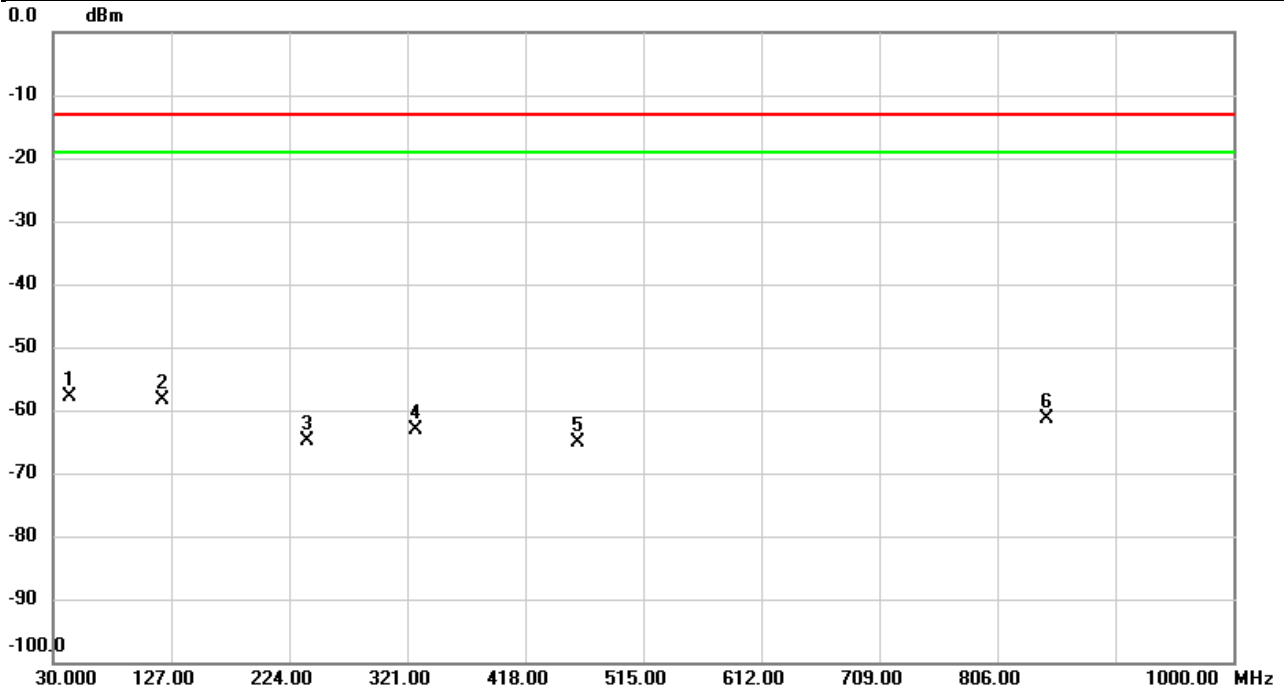


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		75.2990	-66.32	-2.27	-68.59	-13.00	-55.59	peak	
2		119.0783	-63.60	-0.70	-64.30	-13.00	-51.30	peak	
3	*	243.0443	-67.94	7.72	-60.22	-13.00	-47.22	peak	
4		279.3870	-69.92	7.67	-62.25	-13.00	-49.25	peak	
5		614.8130	-77.28	12.88	-64.40	-13.00	-51.40	peak	
6		667.2900	-76.92	13.19	-63.73	-13.00	-50.73	peak	

**REMARKS:**

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

Test Mode	WCDMA Band IV	Test Date	2021/9/17
Test Channel	CH1652	Polarization	Horizontal
Temp	25°C	Hum.	52%



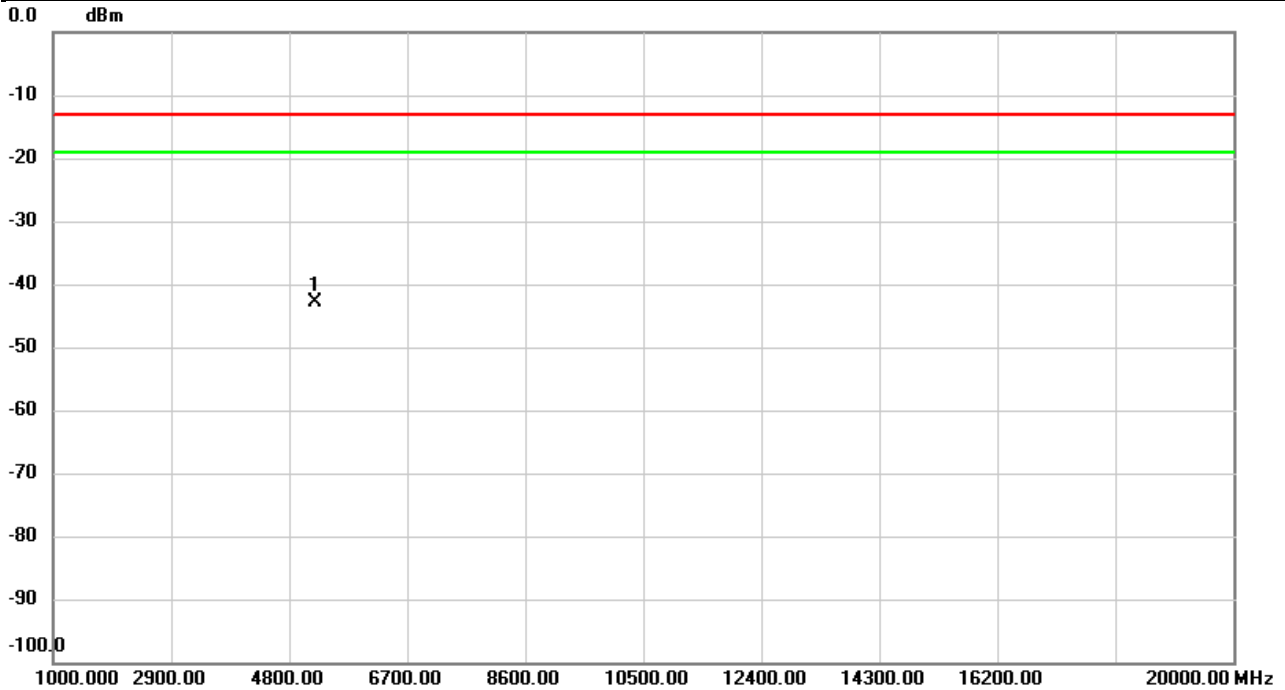
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	43.5476	-73.98	16.17	-57.81	-13.00	-44.81	peak	
2		119.8866	-60.75	2.50	-58.25	-13.00	-45.25	peak	
3		239.4230	-64.49	-0.47	-64.96	-13.00	-51.96	peak	
4		328.6630	-65.71	2.71	-63.00	-13.00	-50.00	peak	
5		461.6500	-77.54	12.44	-65.10	-13.00	-52.10	peak	
6		846.8693	-77.81	16.34	-61.47	-13.00	-48.47	peak	

**REMARKS:**

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



Test Mode	WCDMA Band IV	Test Date	2021/9/17
Test Channel	CH1738	Polarization	Vertical
Temp	25°C	Hum.	52%

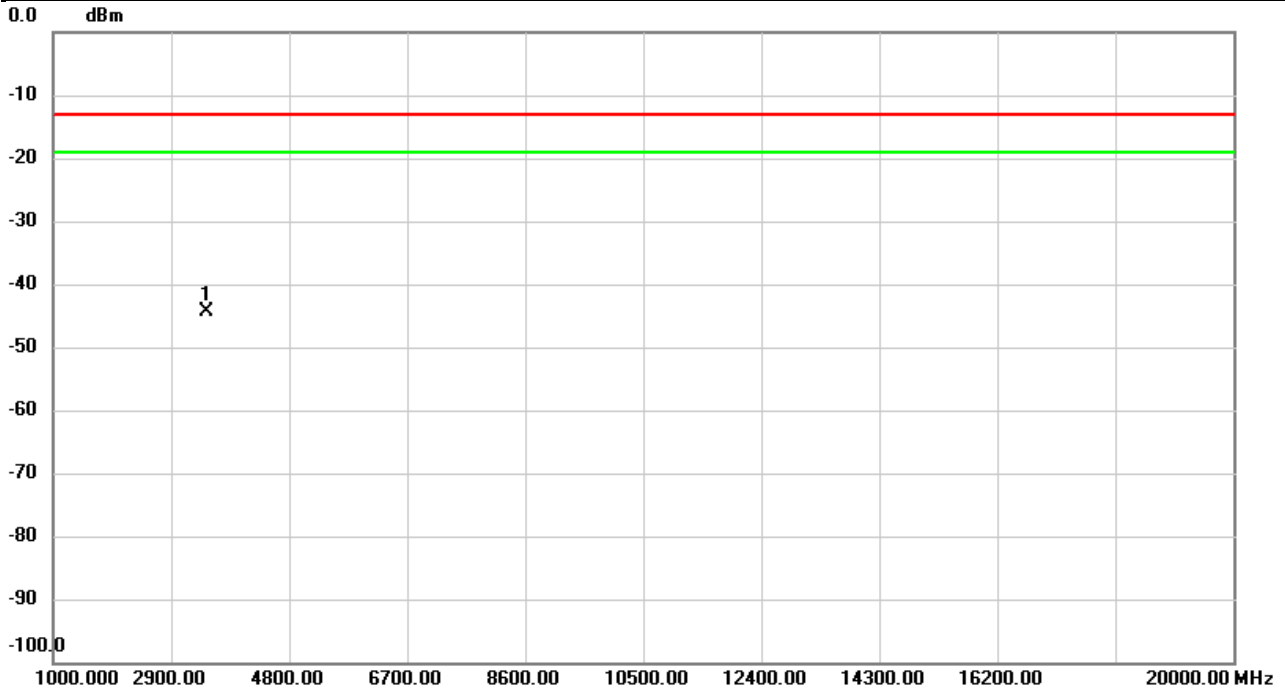


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5210.400	-44.70	1.81	-42.89	-13.00	-29.89	peak	

REMARKS:

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

Test Mode	WCDMA Band IV	Test Date	2021/9/17
Test Channel	CH1738	Polarization	Horizontal
Temp	25°C	Hum.	52%

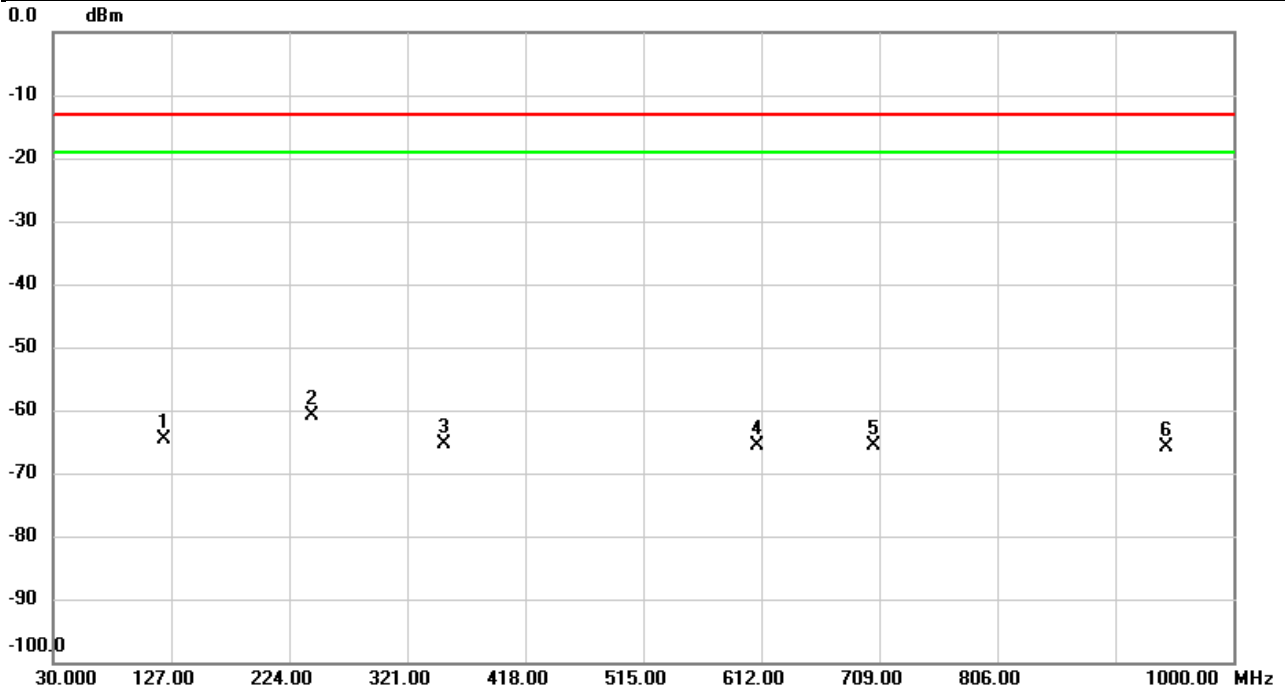


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	3472.533	-42.54	-1.85	-44.39	-13.00	-31.39	peak	

REMARKS:

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

Test Mode	LTE Band 4	Test Date	2021/9/17
Test Channel	CH20175	Polarization	Vertical
Temp	25°C	Hum.	52%

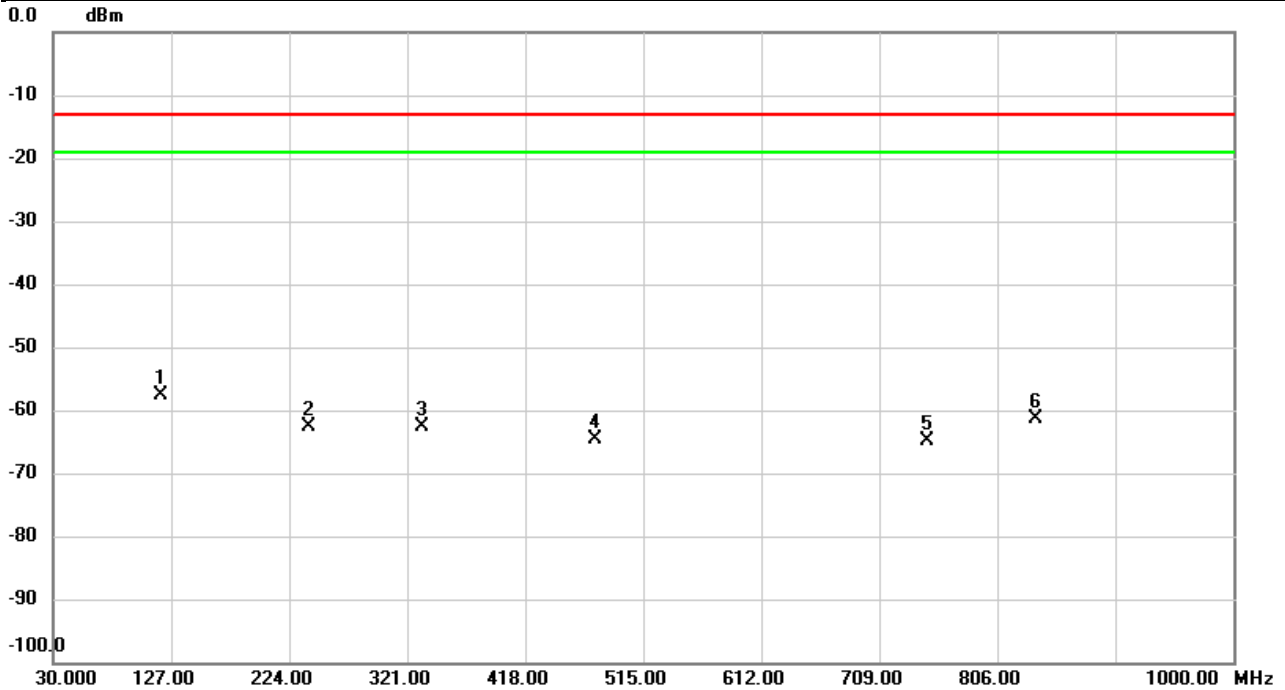


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		120.5656	-63.90	-0.71	-64.61	-13.00	-51.61	peak	
2	*	242.9796	-68.68	7.72	-60.96	-13.00	-47.96	peak	
3		351.5550	-72.39	6.92	-65.47	-13.00	-52.47	peak	
4		608.4433	-78.35	12.80	-65.55	-13.00	-52.55	peak	
5		704.3763	-78.57	12.89	-65.68	-13.00	-52.68	peak	
6		944.6453	-78.14	12.27	-65.87	-13.00	-52.87	peak	

**REMARKS:**

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

Test Mode	LTE Band 4	Test Date	2021/9/17
Test Channel	CH20175	Polarization	Horizontal
Temp	25°C	Hum.	52%

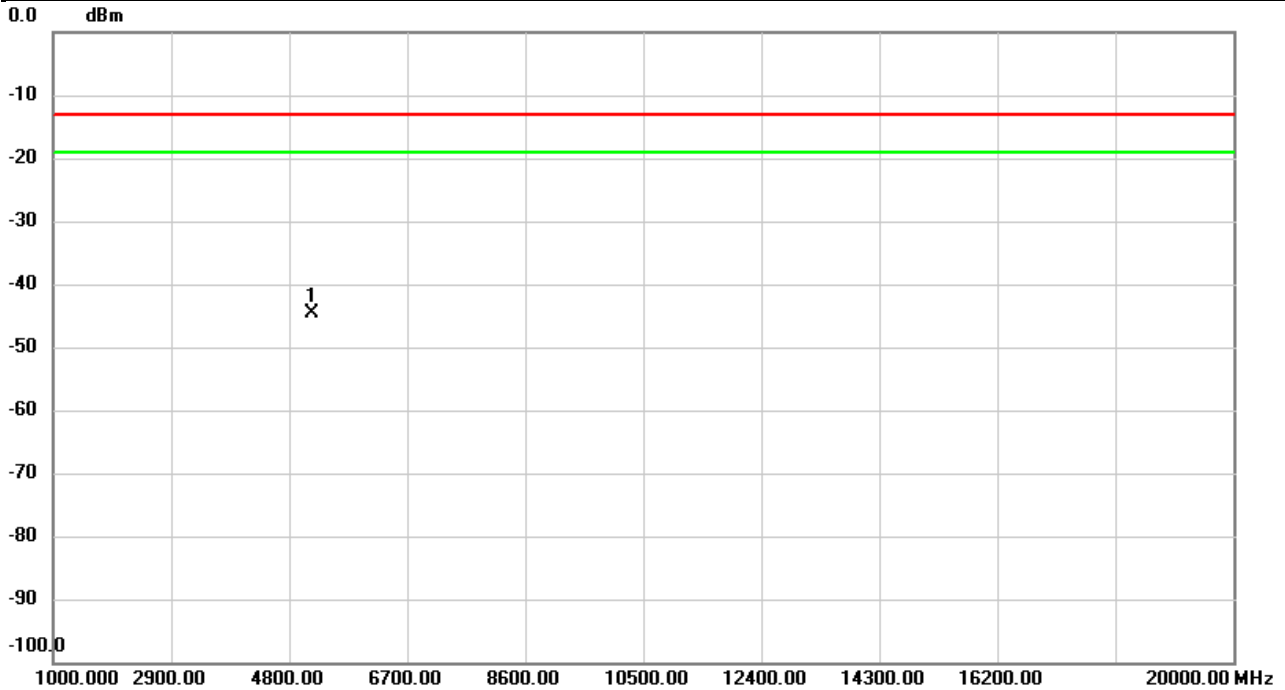


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	118.5610	-60.26	2.62	-57.64	-13.00	-44.64	peak	
2		240.6516	-62.09	-0.48	-62.57	-13.00	-49.57	peak	
3		333.5130	-65.73	3.02	-62.71	-13.00	-49.71	peak	
4		475.1653	-76.57	11.91	-64.66	-13.00	-51.66	peak	
5		748.1556	-77.62	12.64	-64.98	-13.00	-51.98	peak	
6		837.1370	-77.49	16.10	-61.39	-13.00	-48.39	peak	

**REMARKS:**

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

Test Mode	LTE Band 4	Test Date	2021/9/16
Test Channel	CH20175	Polarization	Vertical
Temp	22°C	Hum.	54%

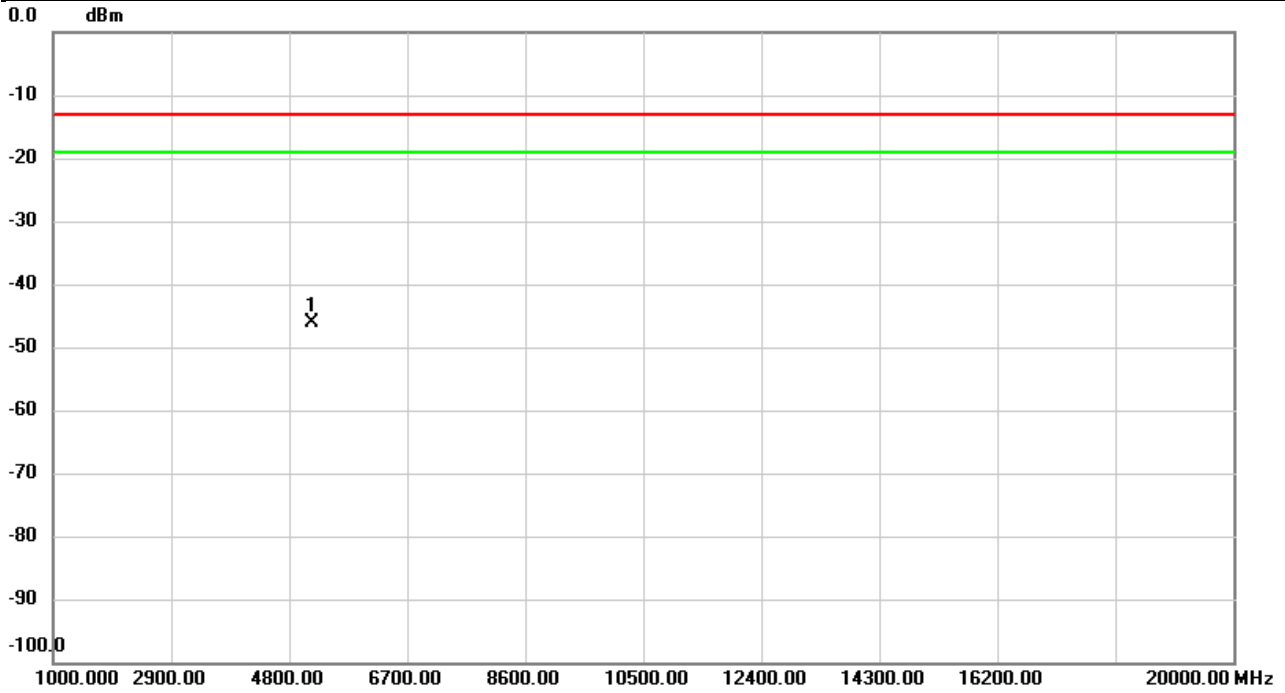


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	5171.133	-46.29	1.68	-44.61	-13.00	-31.61	peak	

REMARKS:

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

Test Mode	LTE Band 4	Test Date	2021/9/16
Test Channel	CH20175	Polarization	Horizontal
Temp	22°C	Hum.	54%

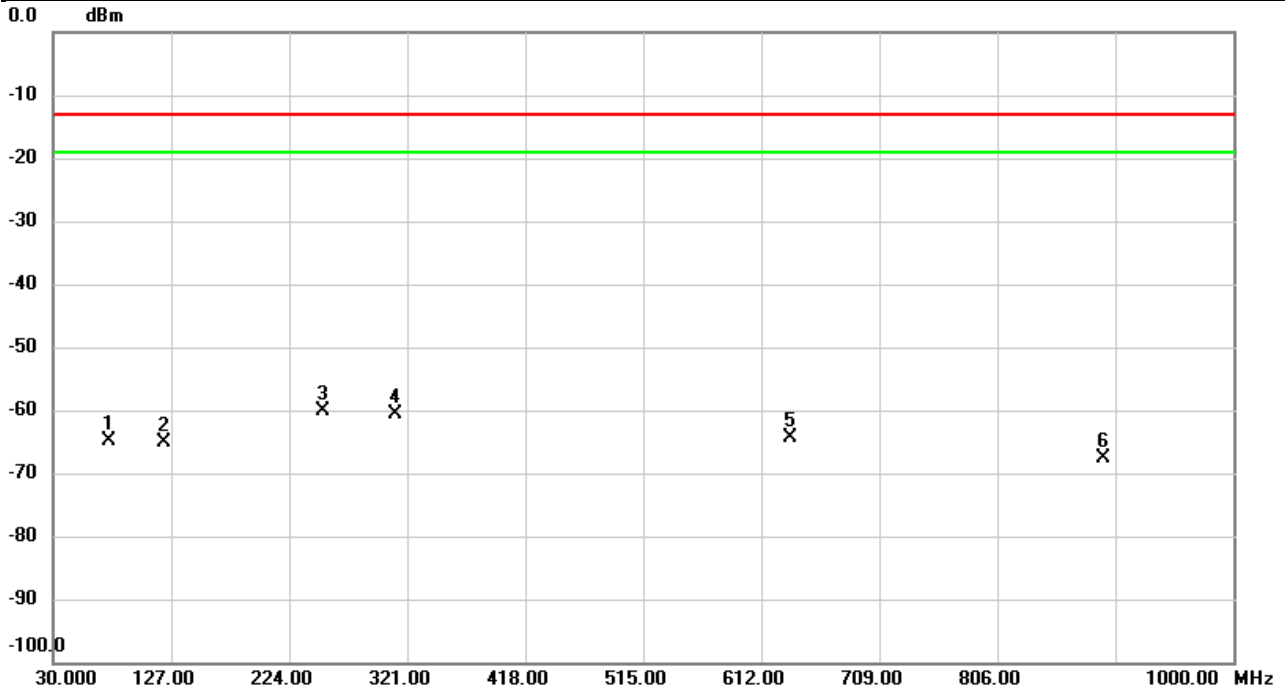


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5171.133	-48.75	2.63	-46.12	-13.00	-33.12	peak	

REMARKS:

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

Test Mode	LTE Band 12	Test Date	2021/9/17
Test Channel	CH23095	Polarization	Vertical
Temp	25°C	Hum.	52%

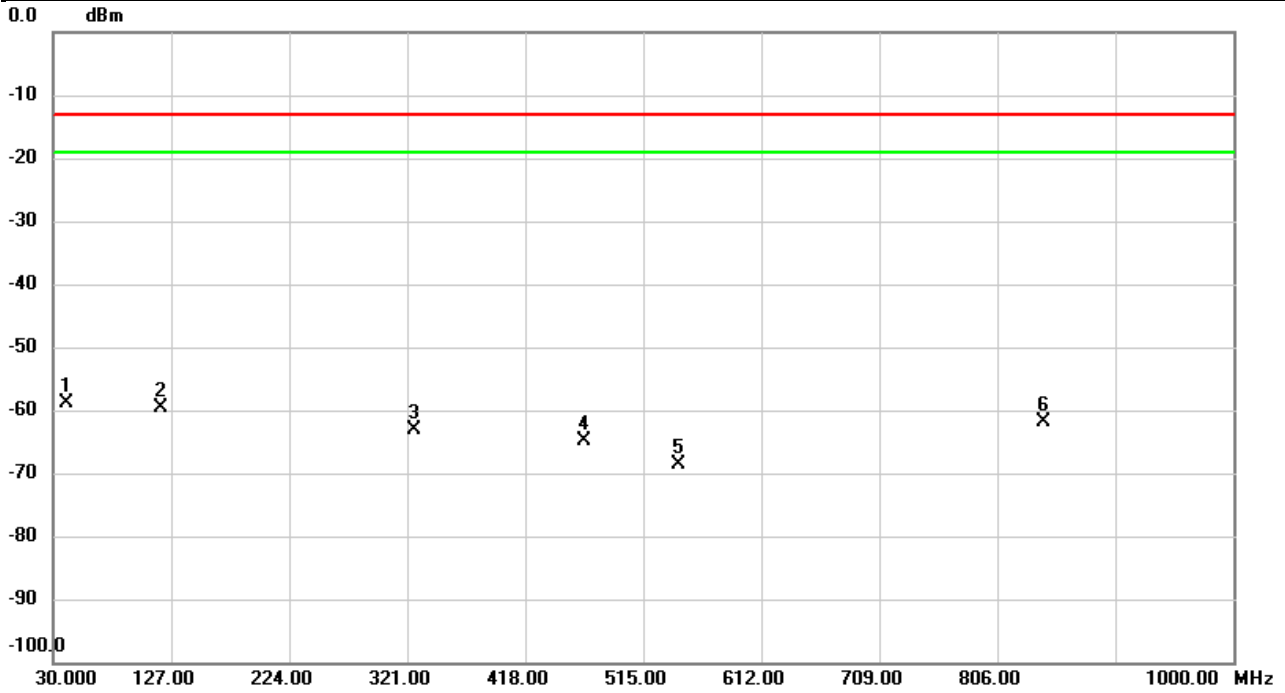


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		75.5577	-62.49	-2.26	-64.75	-13.00	-51.75	peak	
2		121.6650	-64.40	-0.61	-65.01	-13.00	-52.01	peak	
3	*	252.1947	-67.91	7.68	-60.23	-13.00	-47.23	peak	
4		311.3970	-68.23	7.52	-60.71	-13.00	-47.71	peak	
5		636.1853	-77.60	13.12	-64.48	-13.00	-51.48	peak	
6		893.7527	-78.35	10.84	-67.51	-13.00	-54.51	peak	

**REMARKS:**

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

Test Mode	LTE Band 12	Test Date	2021/9/17
Test Channel	CH23095	Polarization	Horizontal
Temp	25°C	Hum.	52%



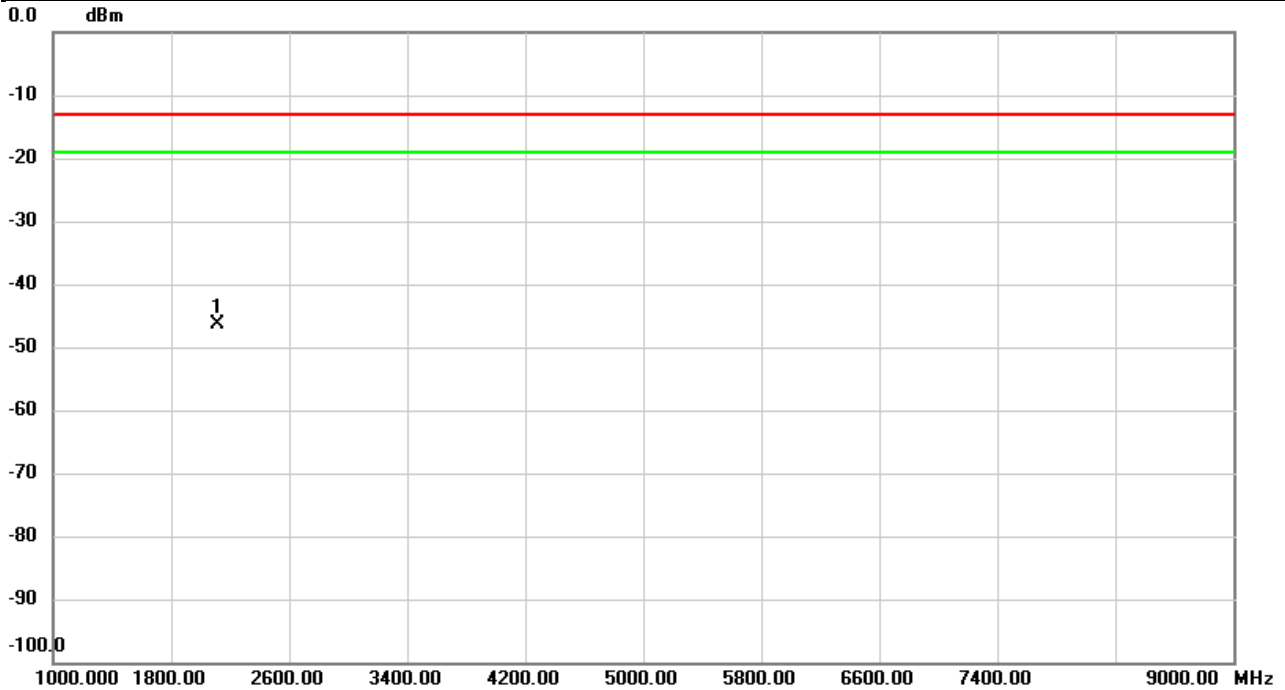
No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1	*	41.2196	-75.73	16.78	-58.95	-13.00	-45.95	peak	
2		118.8520	-62.28	2.59	-59.69	-13.00	-46.69	peak	
3		326.2056	-65.68	2.55	-63.13	-13.00	-50.13	peak	
4		466.6616	-77.08	12.27	-64.81	-13.00	-51.81	peak	
5		544.4880	-77.51	8.96	-68.55	-13.00	-55.55	peak	
6		844.4443	-78.12	16.28	-61.84	-13.00	-48.84	peak	

**REMARKS:**

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



Test Mode	LTE Band 12	Test Date	2021/9/17
Test Channel	CH23095	Polarization	Vertical
Temp	25°C	Hum.	52%

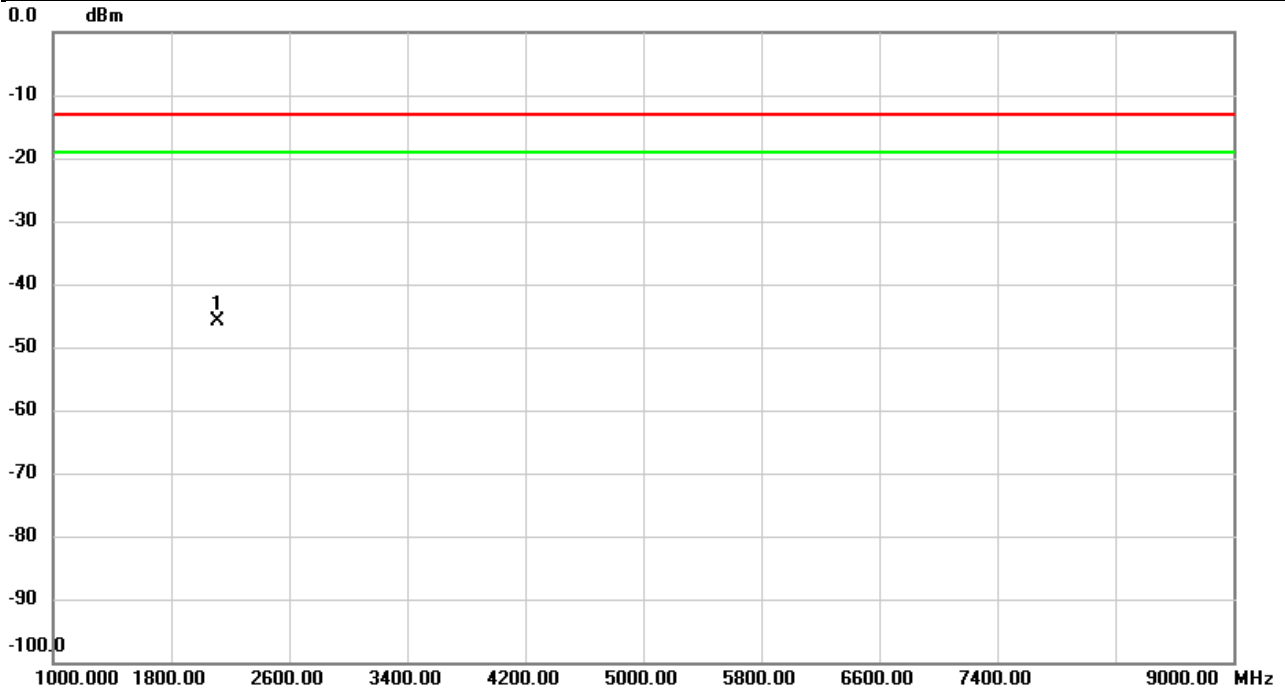


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2109.600	-40.73	-5.54	-46.27	-13.00	-33.27	peak	

REMARKS:

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

Test Mode	LTE Band 12	Test Date	2021/9/17
Test Channel	CH23095	Polarization	Horizontal
Temp	25°C	Hum.	52%

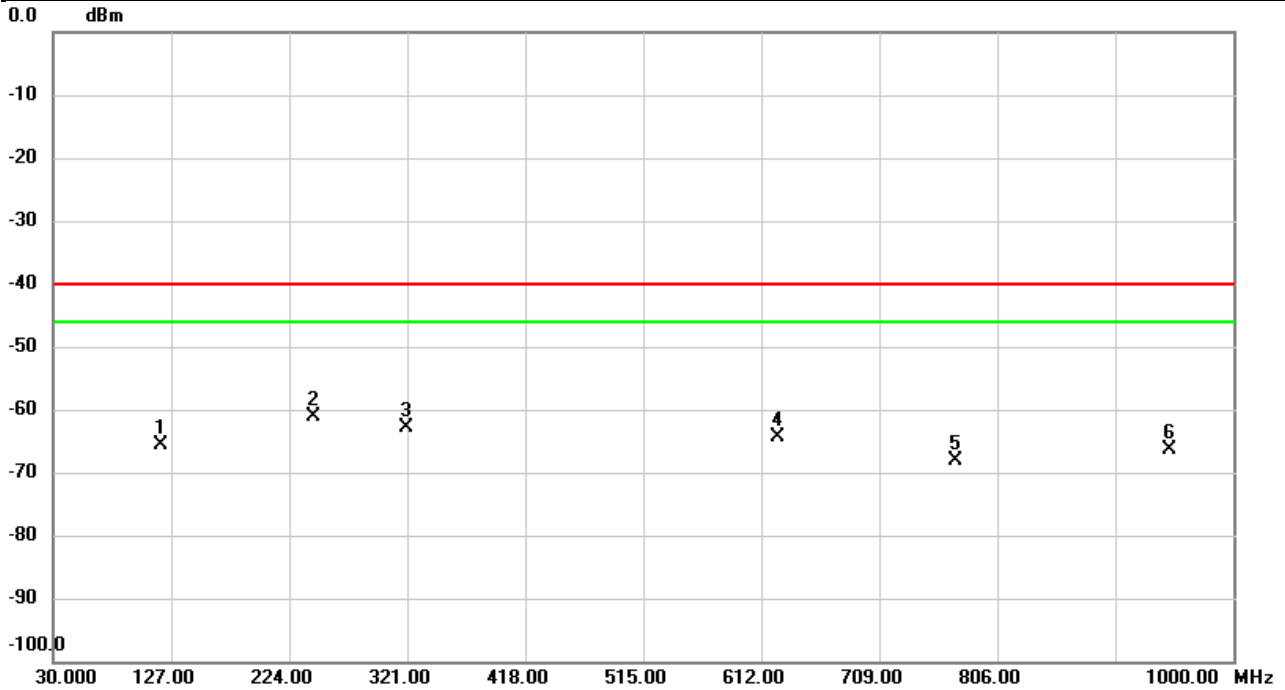


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	2109.600	-40.69	-5.18	-45.87	-13.00	-32.87	peak	

REMARKS:

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

Test Mode	LTE Band 13	Test Date	2021/9/17
Test Channel	CH23230	Polarization	Vertical
Temp	25°C	Hum.	52%

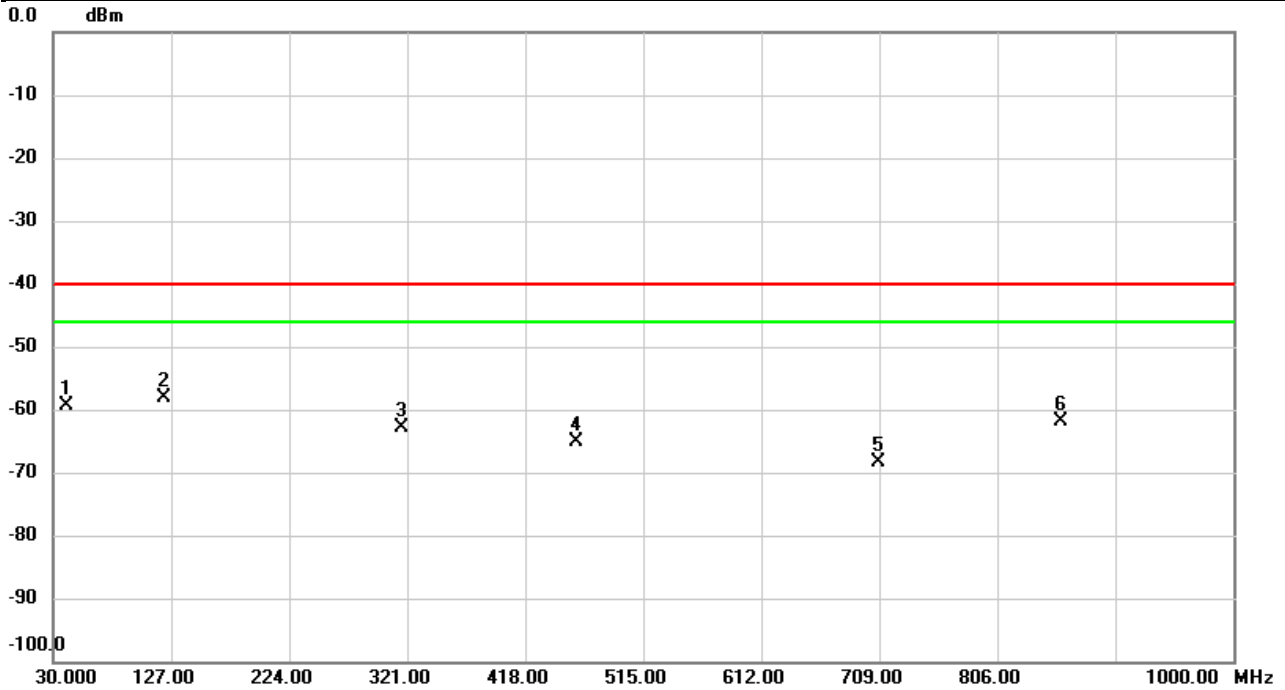


No.	Mk.	Freq. (MHz)	Reading Level (dBm)	Correct Factor (dB)	Measurement (dBm)	Limit (dBm)	Over (dB)	Detector	Comment
1		118.6903	-64.89	-0.68	-65.57	-40.00	-25.57	peak	
2	*	244.3700	-68.91	7.71	-61.20	-40.00	-21.20	peak	
3		320.9030	-70.31	7.40	-62.91	-40.00	-22.91	peak	
4		626.2266	-77.39	13.00	-64.39	-40.00	-24.39	peak	
5		771.6620	-78.16	10.11	-68.05	-40.00	-28.05	peak	
6		947.6846	-78.82	12.35	-66.47	-40.00	-26.47	peak	

**REMARKS:**

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

Test Mode	LTE Band 13	Test Date	2021/9/17
Test Channel	CH23230	Polarization	Horizontal
Temp	25°C	Hum.	52%

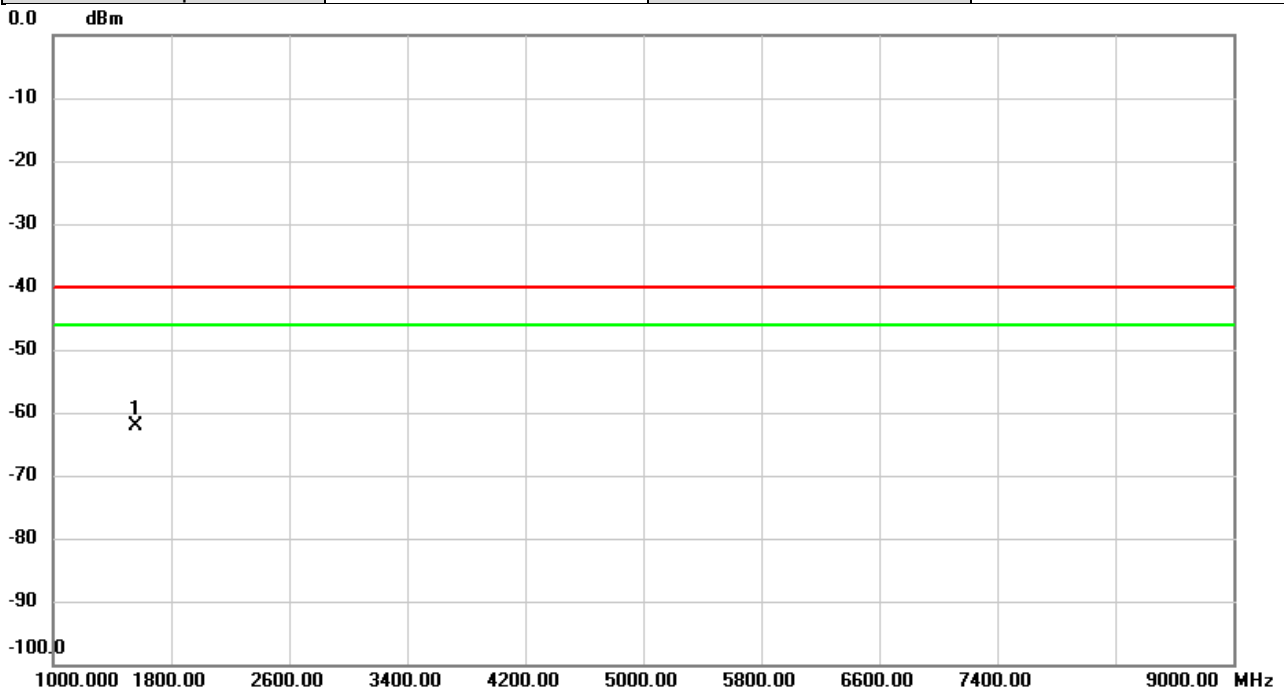


No.	Mk.	Freq. MHz	Reading Level dBm	Correct Factor dB	Measure- ment dBm	Limit dBm	Over dB	Detector	Comment
1		41.1873	-76.18	16.79	-59.39	-40.00	-19.39	peak	
2	*	121.1153	-60.69	2.53	-58.16	-40.00	-18.16	peak	
3		316.4086	-64.80	1.92	-62.88	-40.00	-22.88	peak	
4		460.1950	-77.44	12.43	-65.01	-40.00	-25.01	peak	
5		708.7413	-78.31	9.97	-68.34	-40.00	-28.34	peak	
6		858.5740	-78.14	16.30	-61.84	-40.00	-21.84	peak	

**REMARKS:**

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

Test Mode	LTE Band 13	Test Date	2021/9/17
Test Channel	CH23230	Polarization	Vertical
Temp	25°C	Hum.	52%

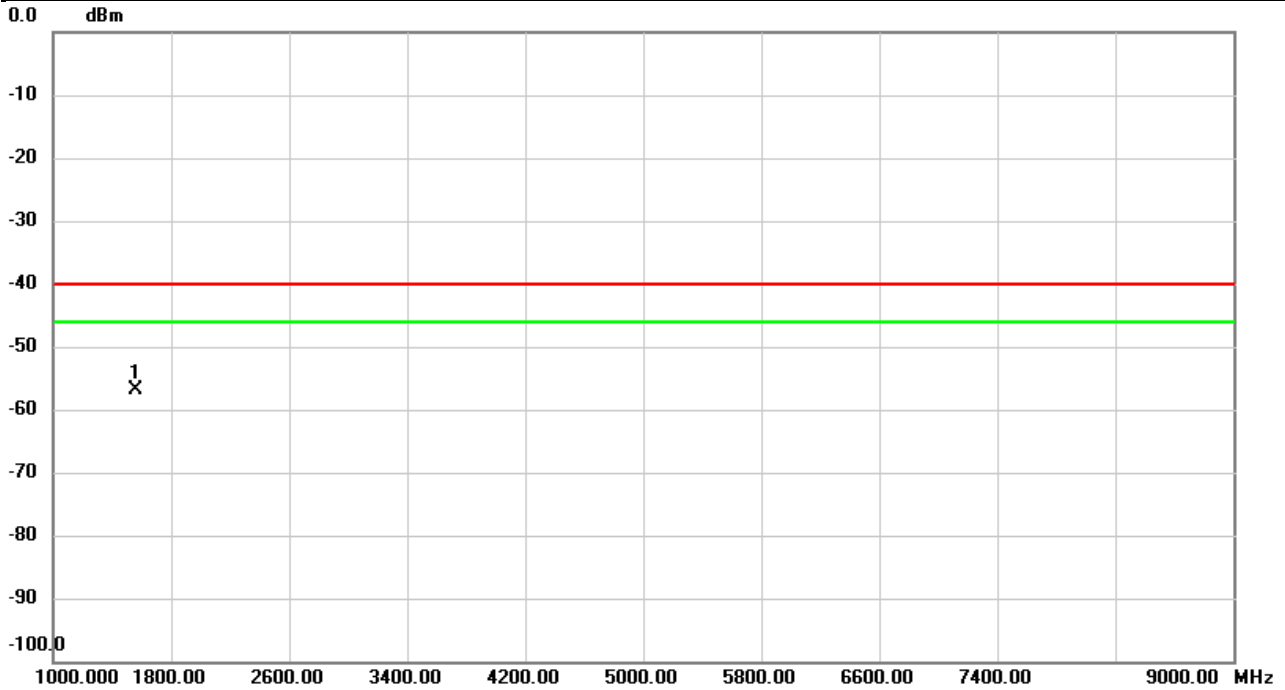


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1555.200	-53.59	-8.53	-62.12	-40.00	-22.12	peak	

REMARKS:

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

Test Mode	LTE Band 13	Test Date	2021/9/17
Test Channel	CH23230	Polarization	Horizontal
Temp	25°C	Hum.	52%

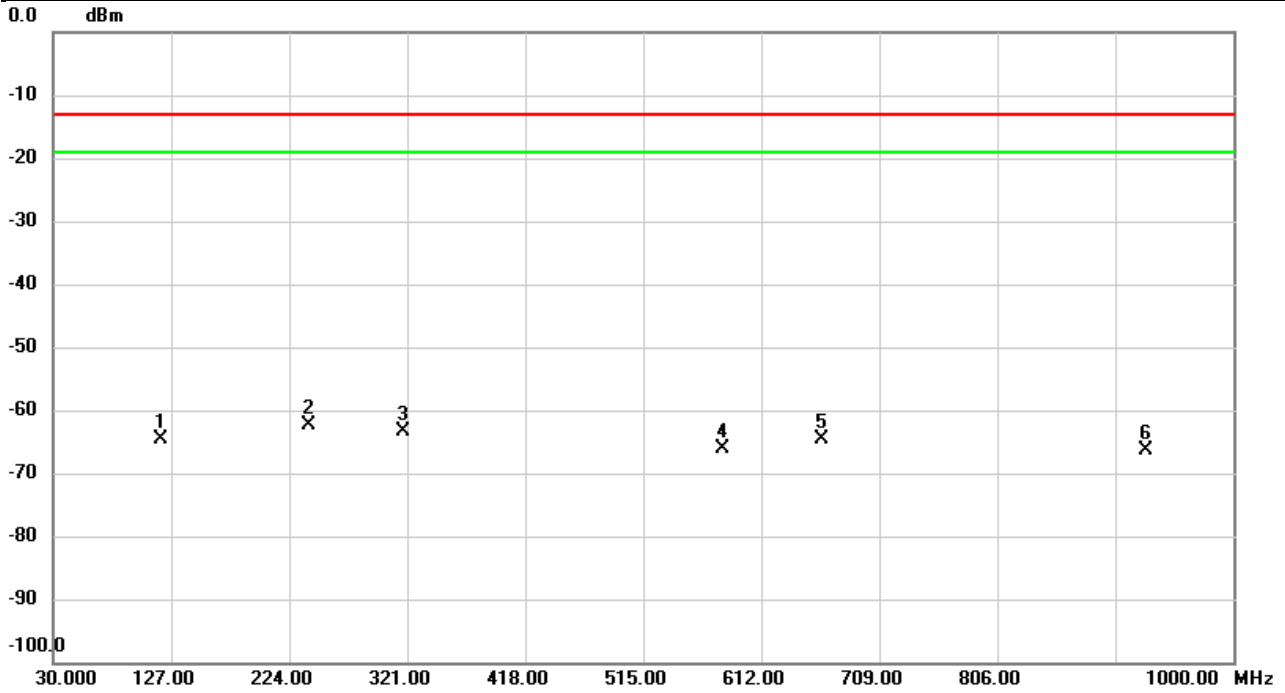


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	1555.467	-49.15	-7.61	-56.76	-40.00	-16.76	peak	

REMARKS:

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

Test Mode	LTE Band 66	Test Date	2021/9/17
Test Channel	CH132322	Polarization	Vertical
Temp	25°C	Hum.	52%

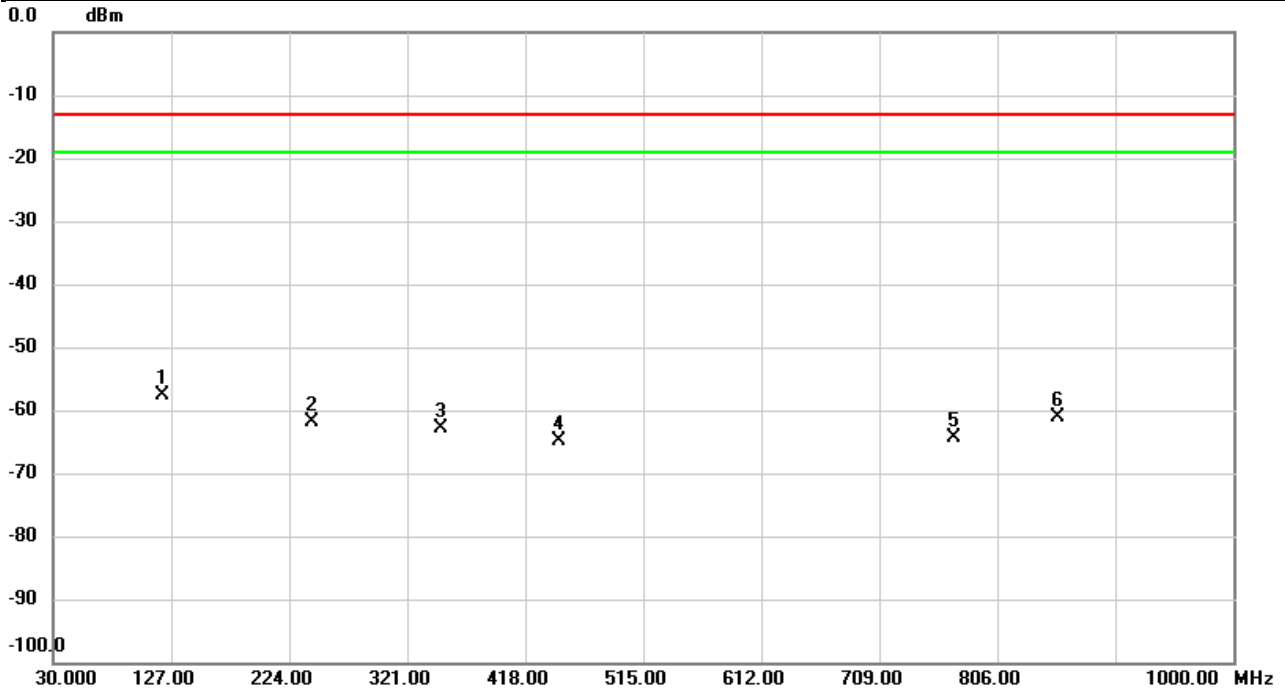


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1		118.3993	-63.98	-0.66	-64.64	-13.00	-51.64	peak	
2	*	240.3606	-70.09	7.74	-62.35	-13.00	-49.35	peak	
3		317.6696	-70.74	7.44	-63.30	-13.00	-50.30	peak	
4		580.7013	-77.37	11.35	-66.02	-13.00	-53.02	peak	
5		661.1790	-77.95	13.22	-64.73	-13.00	-51.73	peak	
6		928.6726	-78.24	11.84	-66.40	-13.00	-53.40	peak	

**REMARKS:**

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

Test Mode	LTE Band 66	Test Date	2021/9/17
Test Channel	CH132322	Polarization	Horizontal
Temp	25°C	Hum.	52%



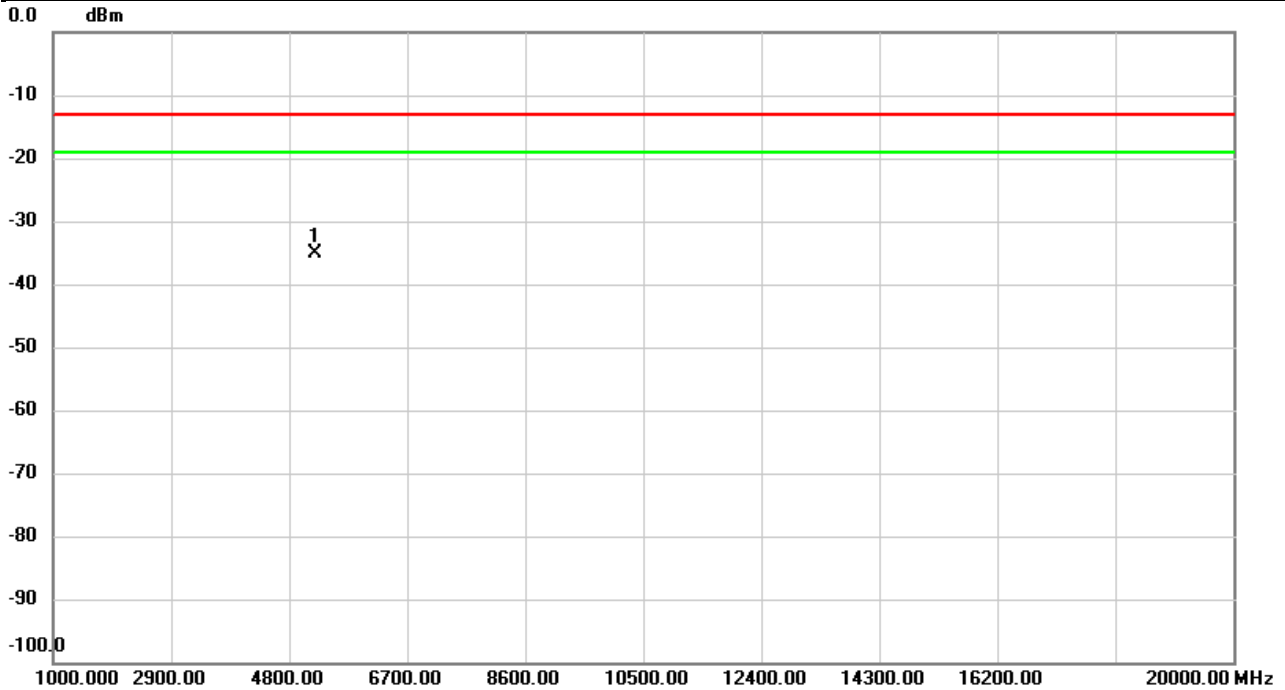
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	120.2746	-60.13	2.50	-57.63	-13.00	-44.63	peak	
2		243.1736	-61.24	-0.54	-61.78	-13.00	-48.78	peak	
3		348.9683	-66.86	4.01	-62.85	-13.00	-49.85	peak	
4		445.6126	-76.60	11.81	-64.79	-13.00	-51.79	peak	
5		769.9160	-78.19	13.73	-64.46	-13.00	-51.46	peak	
6		855.1790	-77.59	16.35	-61.24	-13.00	-48.24	peak	

**REMARKS:**

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



Test Mode	LTE Band 66	Test Date	2021/9/16
Test Channel	CH132322	Polarization	Vertical
Temp	22°C	Hum.	54%

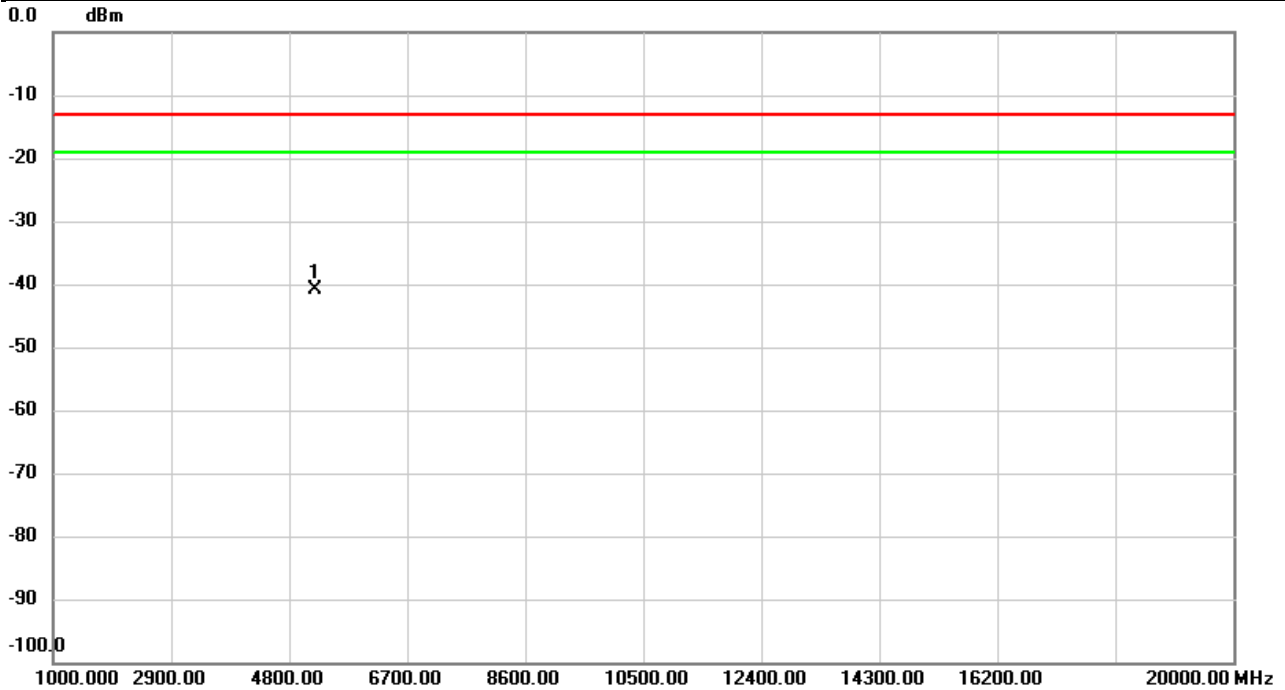


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5208.500	-37.03	1.83	-35.20	-13.00	-22.20	peak	

REMARKS:

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

Test Mode	LTE Band 66	Test Date	2021/9/16
Test Channel	CH132322	Polarization	Horizontal
Temp	22°C	Hum.	54%



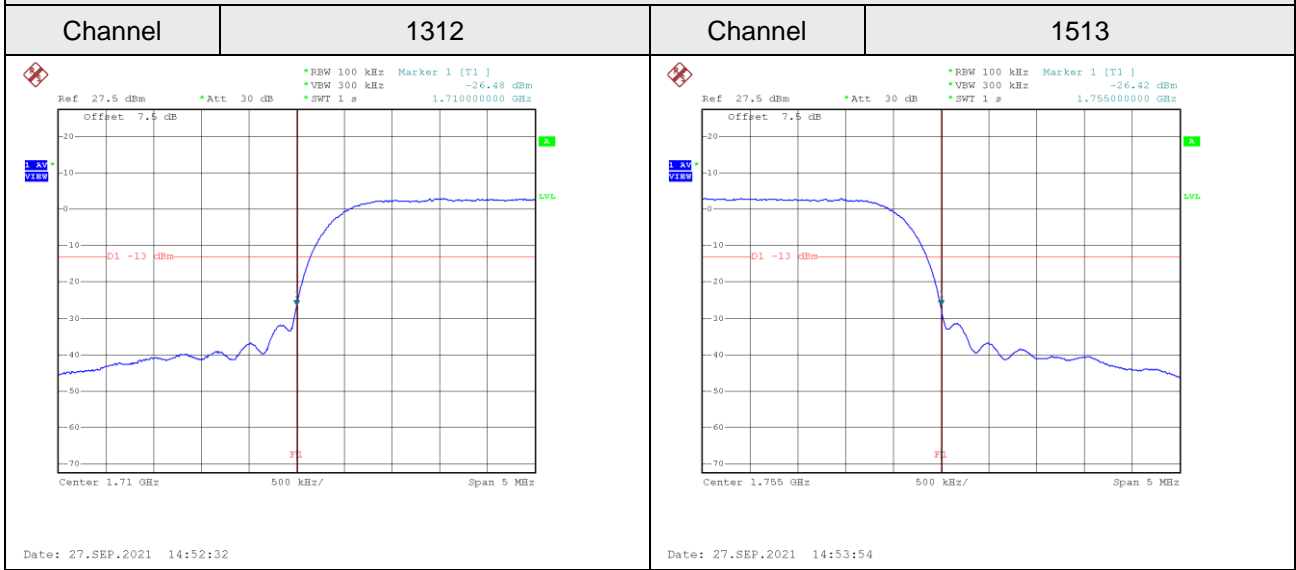
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBm	dB	dBm	dBm	dB		
1	*	5208.500	-43.37	2.45	-40.92	-13.00	-27.92	peak	

REMARKS:

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

## APPENDIX F BAND EDGE

## WCDMA Band IV\_WCDMA Spectrum Plot



## LTE Band 4\_1.4M Spectrum Plot

1RB#0

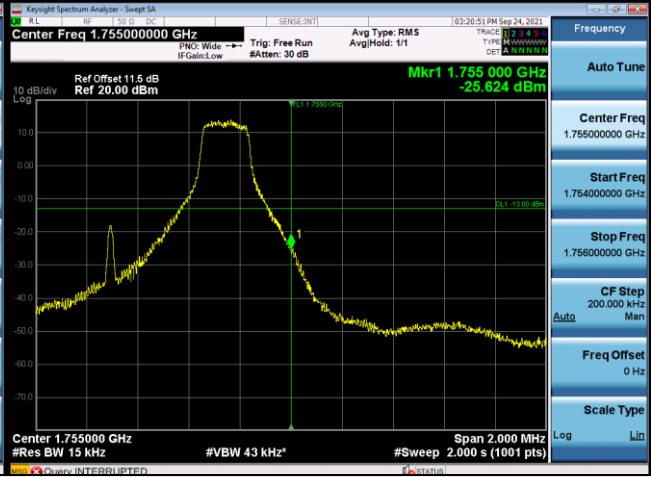
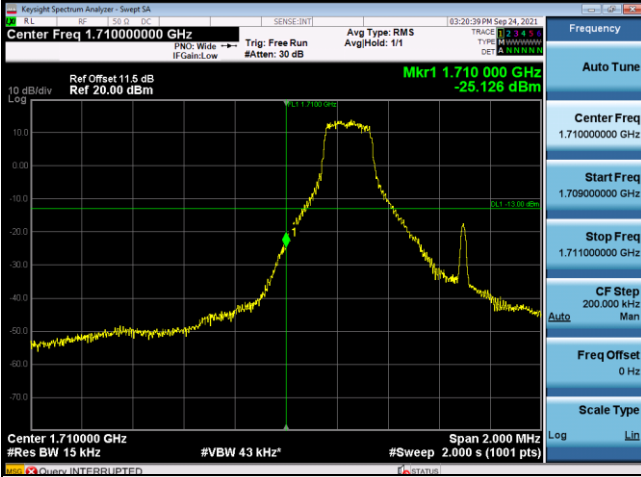
1RB#5

Channel

19957

Channel

20393



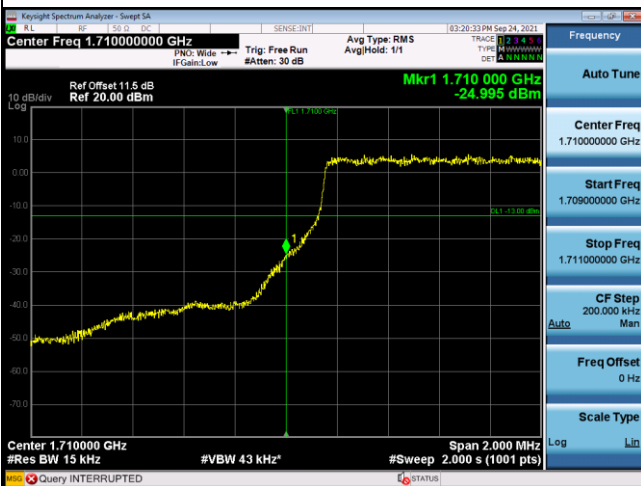
6RB#0

Channel

19957

Channel

20393



## LTE Band 4\_3M Spectrum Plot

1RB#0

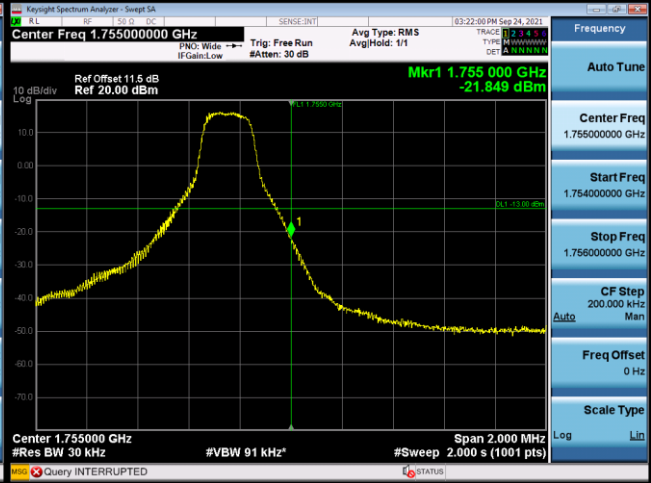
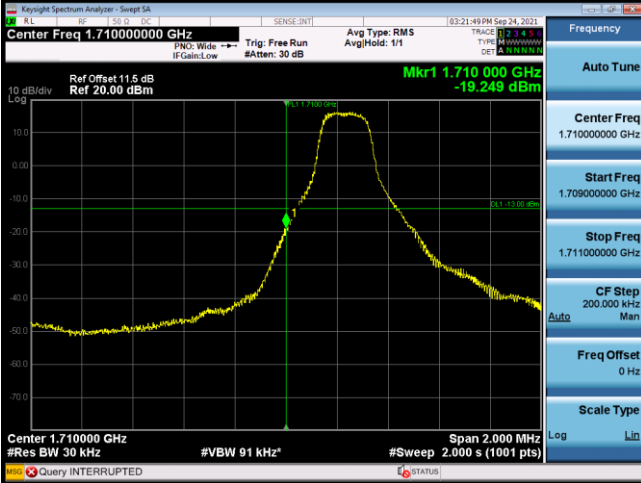
1RB#14

Channel

19965

Channel

20385



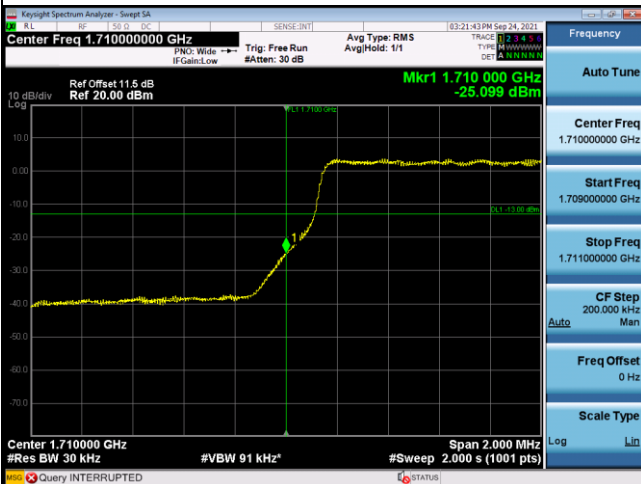
15RB#0

Channel

19965

Channel

20385



## LTE Band 4\_5M Spectrum Plot

1RB#0

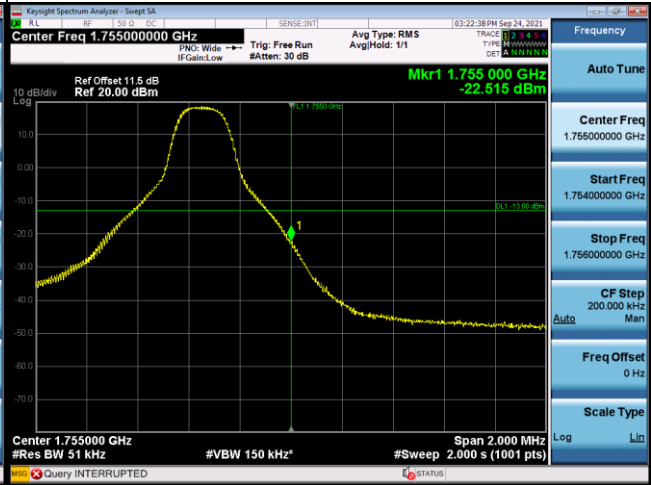
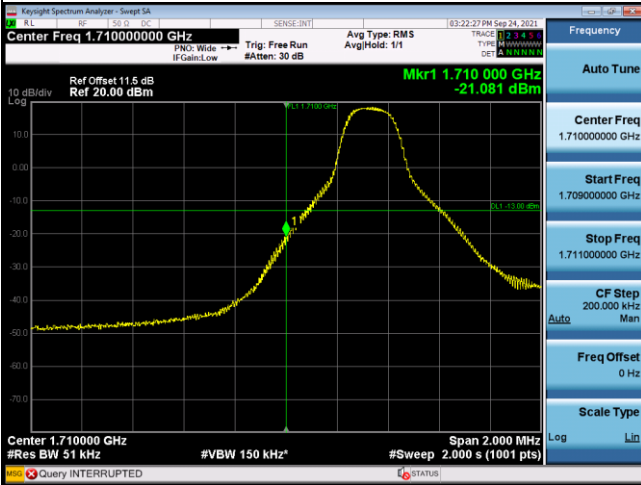
1RB#24

Channel

19975

Channel

20375



## 25RB#0

Channel

19975

Channel

20375

