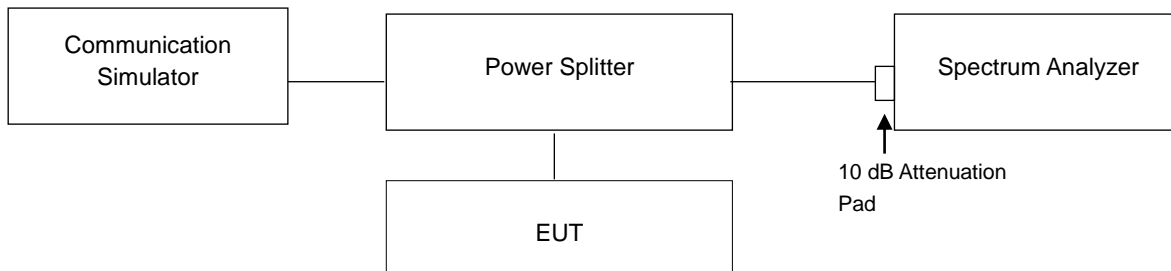


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.6.2 Test Setup

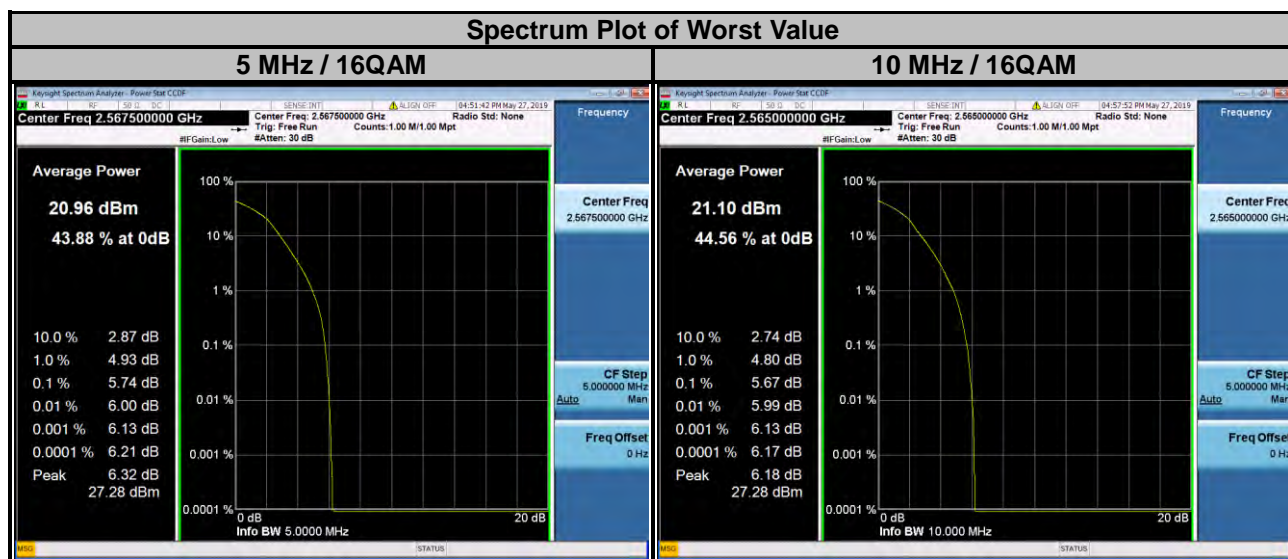


4.6.3 Test Procedures

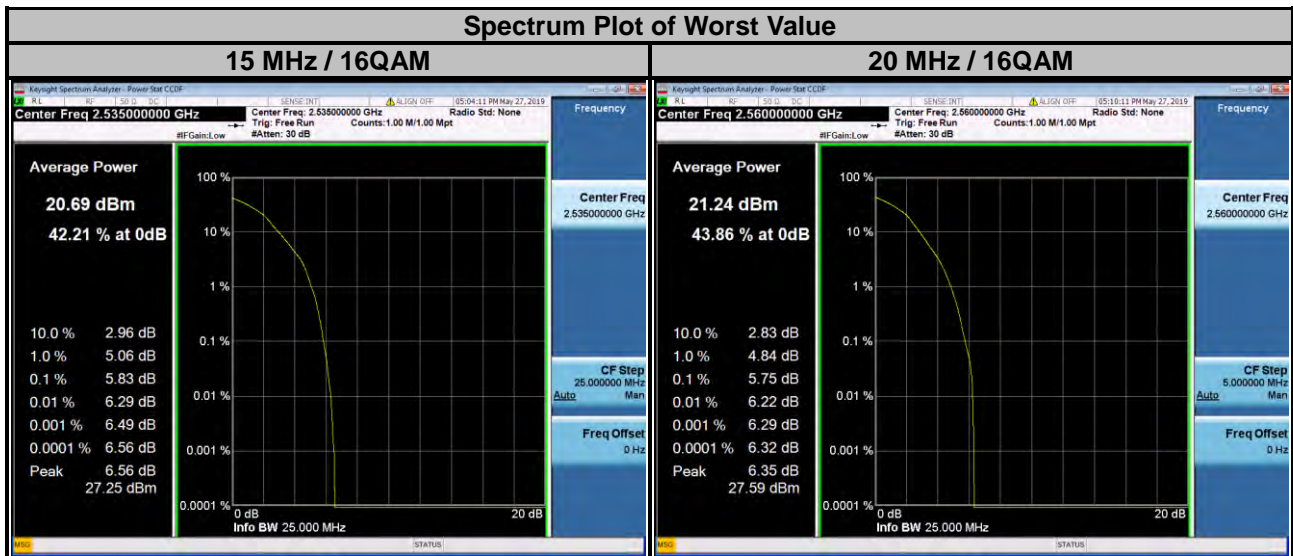
1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

4.6.4 Test Results

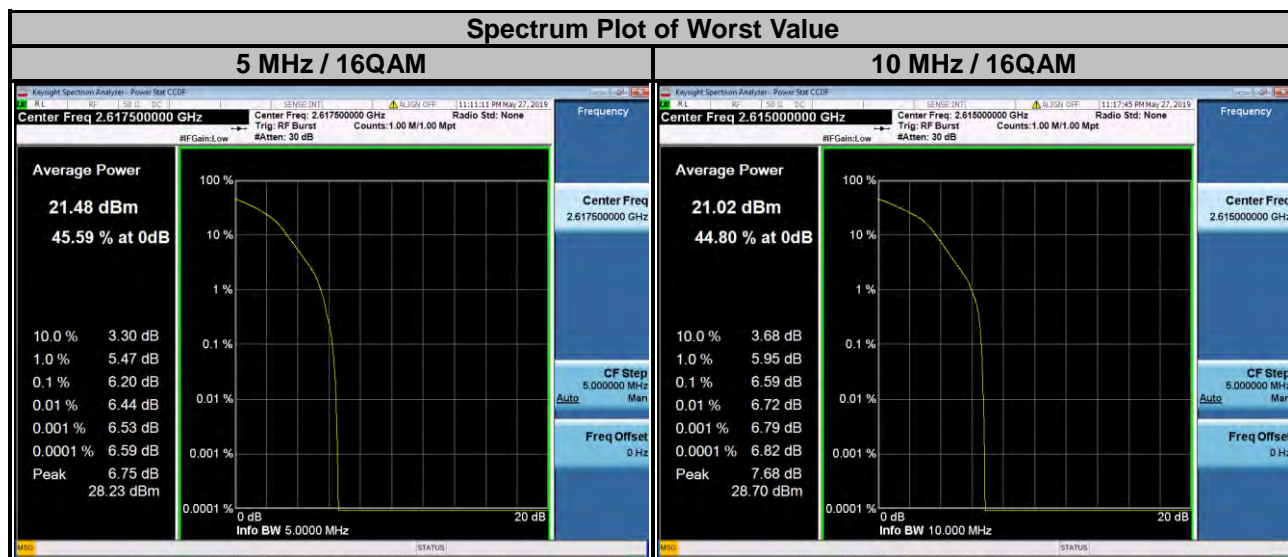
LTE Band 7							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20775	2502.5	4.75	5.05	20800	2505.0	4.74	5.12
21100	2535.0	4.84	5.70	21100	2535.0	4.85	5.65
21425	2567.5	5.04	5.74	21400	2565.0	5.03	5.67



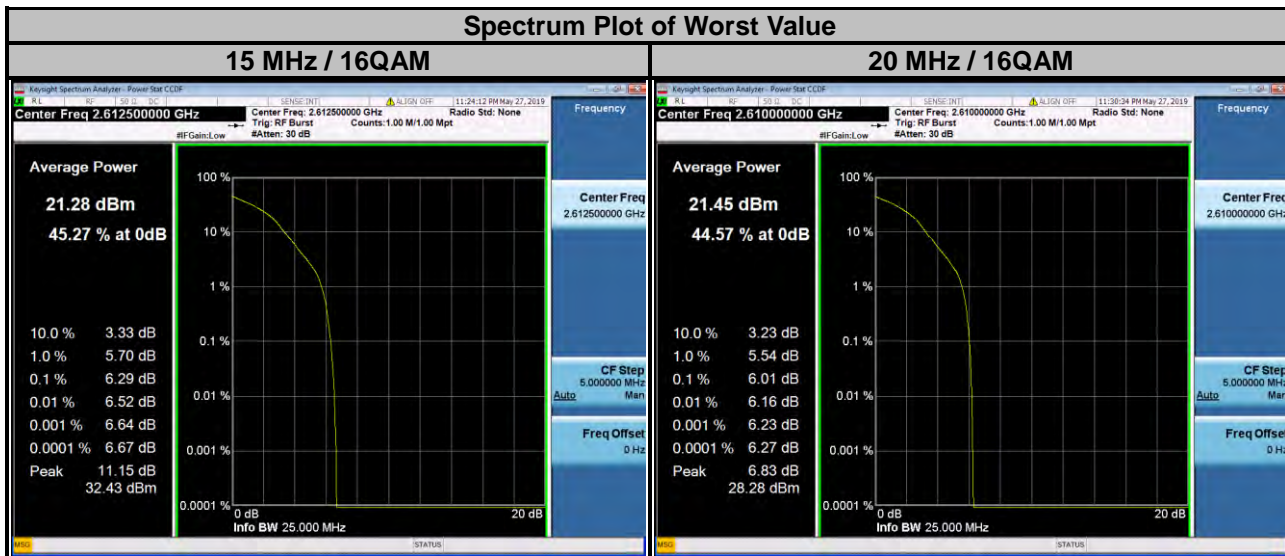
LTE Band 7							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
20825	2507.5	4.72	5.23	20850	2510.0	4.72	5.26
21100	2535.0	5.01	5.83	21100	2535.0	5.11	5.72
21375	2562.5	4.98	5.74	21350	2560.0	4.97	5.75



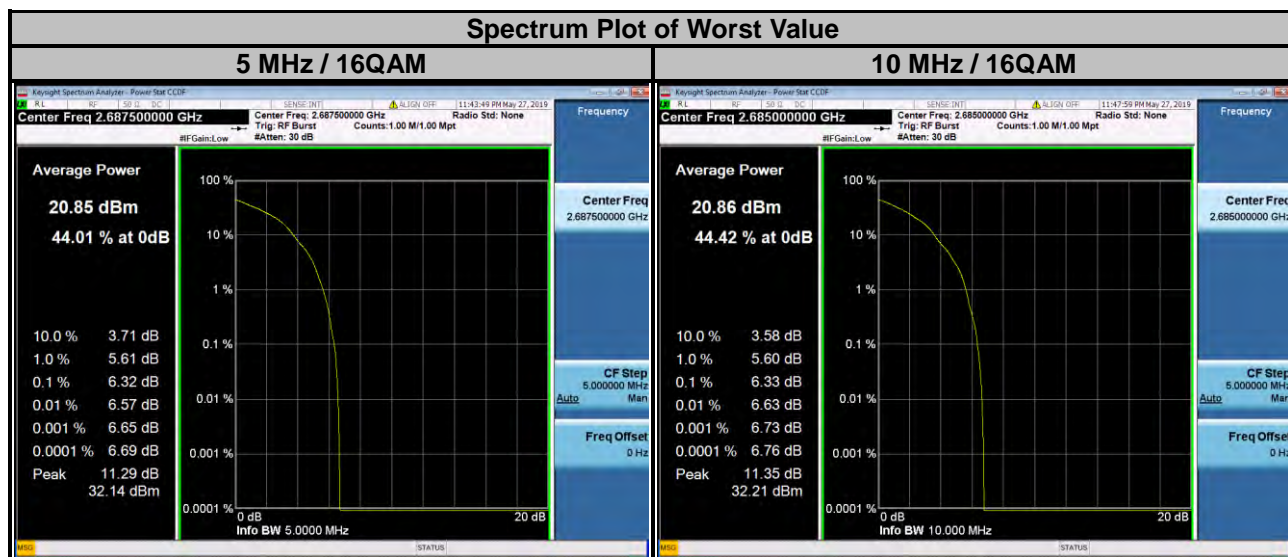
LTE Band 38							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
37775	2572.5	5.29	6.10	37800	2575.0	5.16	5.94
38000	2595.0	5.20	6.08	38000	2595.0	5.22	6.03
38225	2617.5	5.60	6.20	38200	2615.0	5.38	6.59



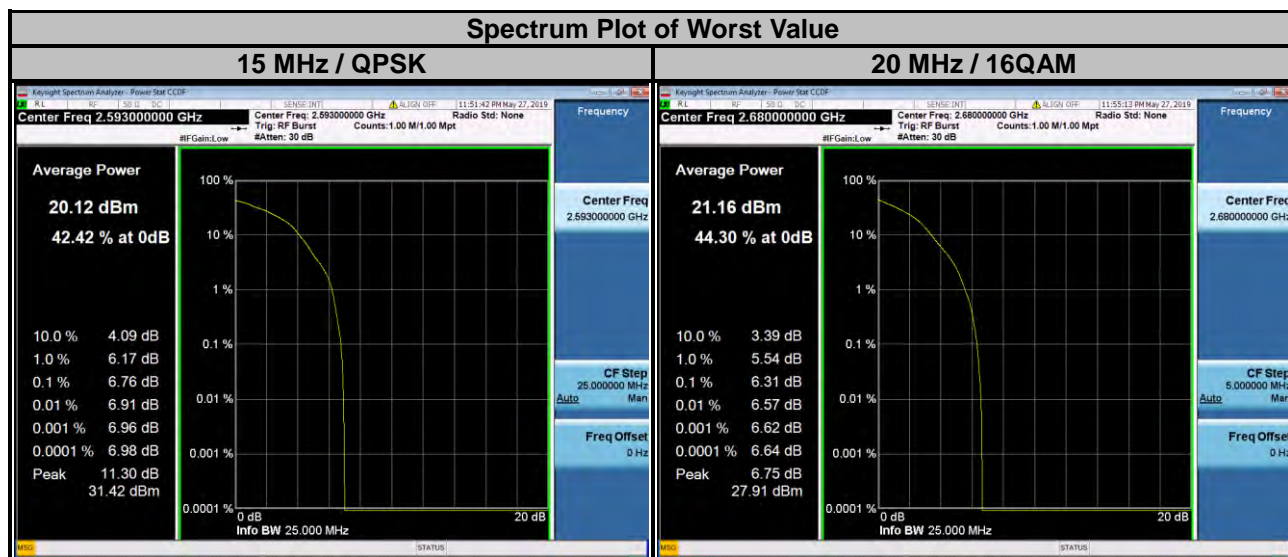
LTE Band 38							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
37825	2577.5	5.42	6.13	37850	2580.0	5.33	5.60
38000	2595.0	5.42	5.93	38000	2595.0	5.87	5.84
38175	2612.5	5.11	6.29	38150	2610.0	4.97	6.01



LTE Band 41							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
39675	2498.5	5.44	5.92	39700	2501.0	5.39	5.73
40620	2593.0	5.53	6.12	40620	2593.0	5.64	6.06
41565	2687.5	5.17	6.32	41540	2685.0	5.22	6.33



LTE Band 41							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
39725	2503.5	5.44	6.69	39750	2506.0	5.54	6.10
40620	2593.0	5.25	6.76	40620	2593.0	5.58	5.93
41515	2682.5	5.20	6.76	41490	2680.0	4.95	6.31

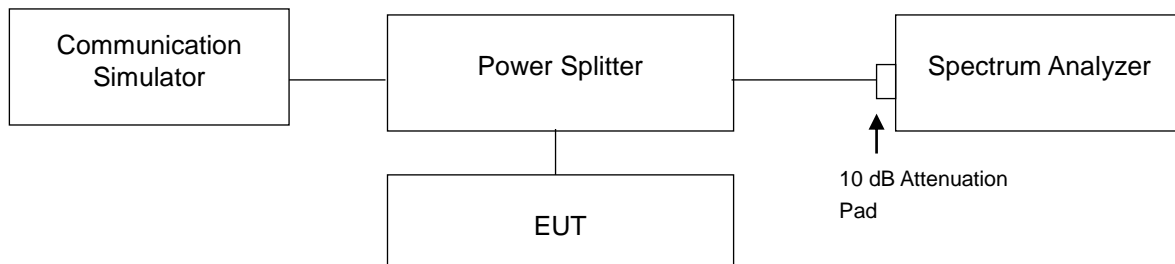


4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log (P)$ dB. The limit of emission is equal to -25 dBm.

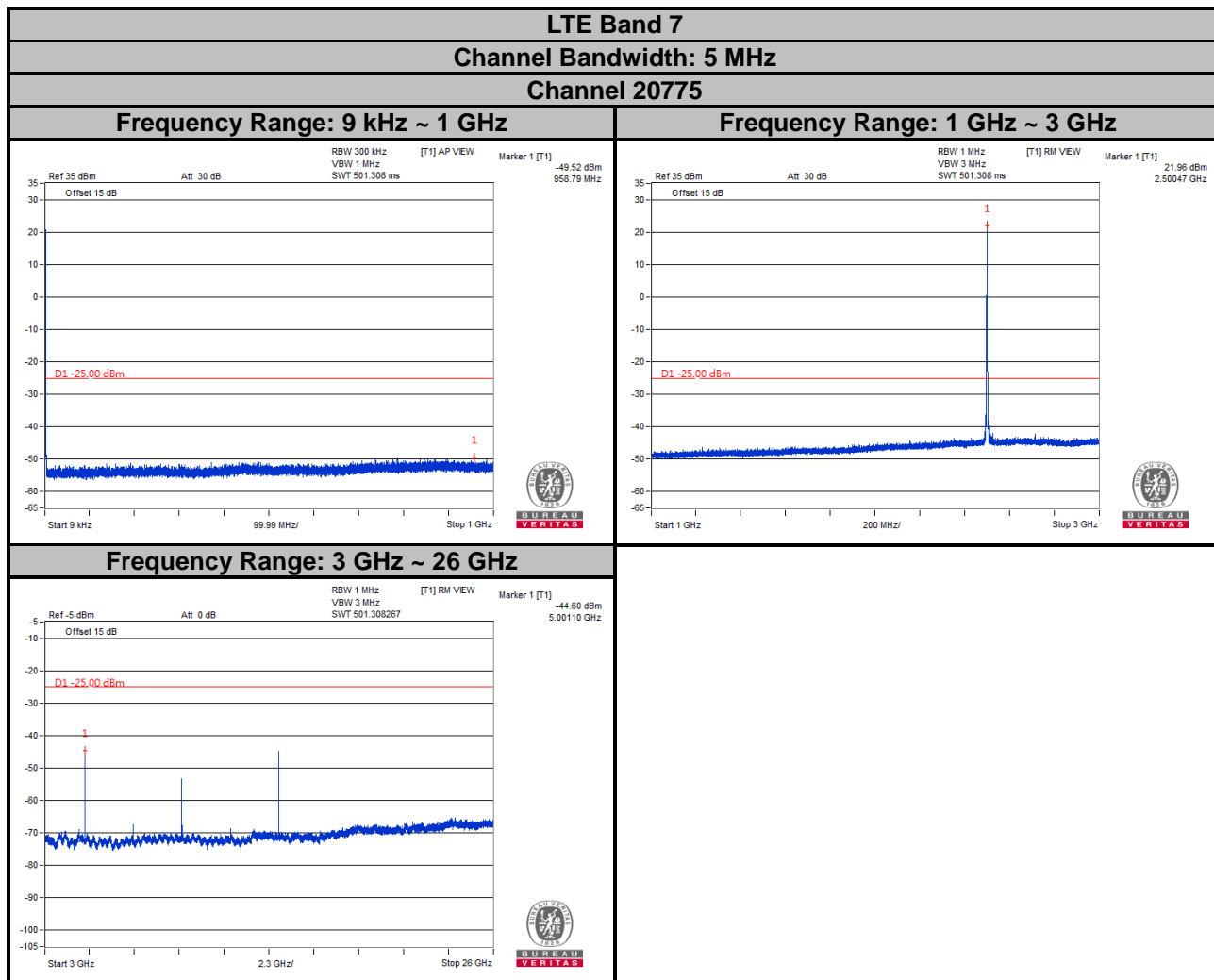
4.7.2 Test Setup



4.7.3 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 3 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 300 kHz and VBW = 1 MHz are used for conducted emission measurement.
- Measuring frequency range is from 3 GHz to 26 or 27 GHz. 10 dB attenuation pad is connected with spectrum. RBW = 1 MHz and VBW = 3 MHz are used for conducted emission measurement.

4.7.4 Test Results



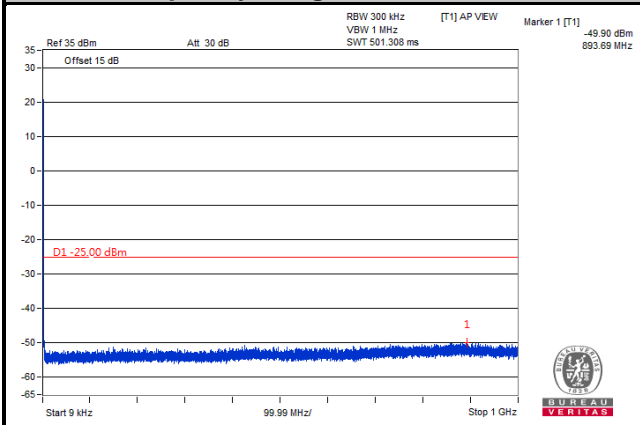
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 7

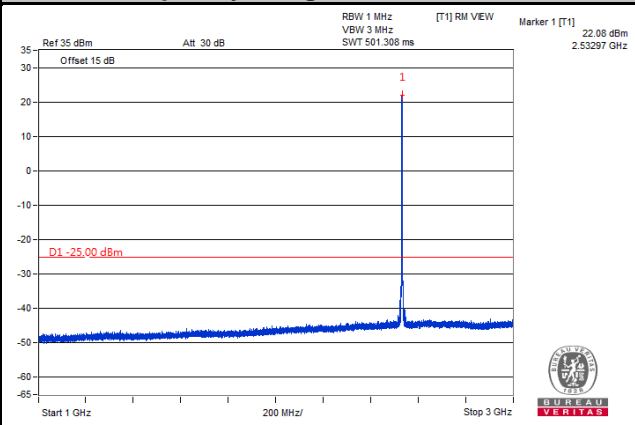
Channel Bandwidth: 5 MHz

Channel 21100

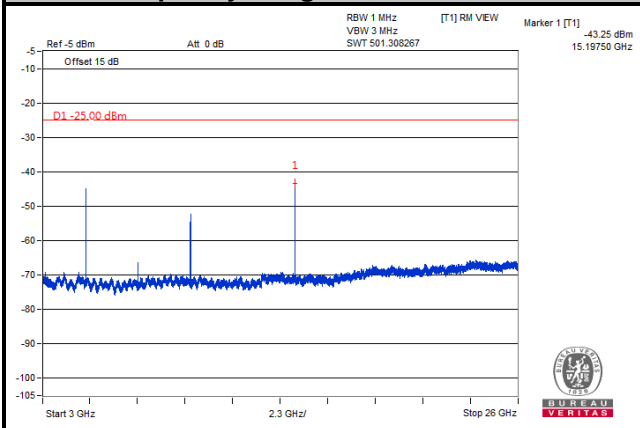
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 3 GHz



Frequency Range: 3 GHz ~ 26 GHz



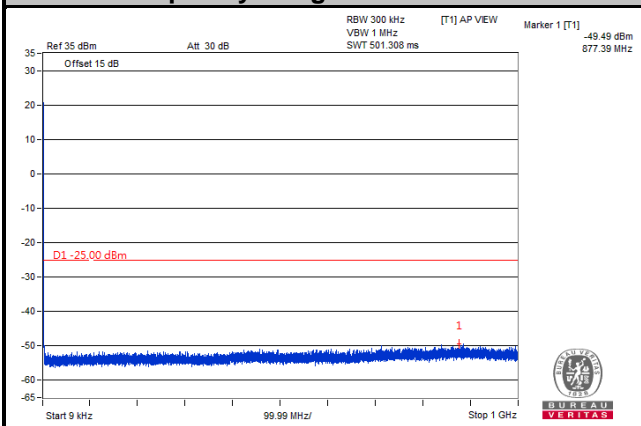
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 7

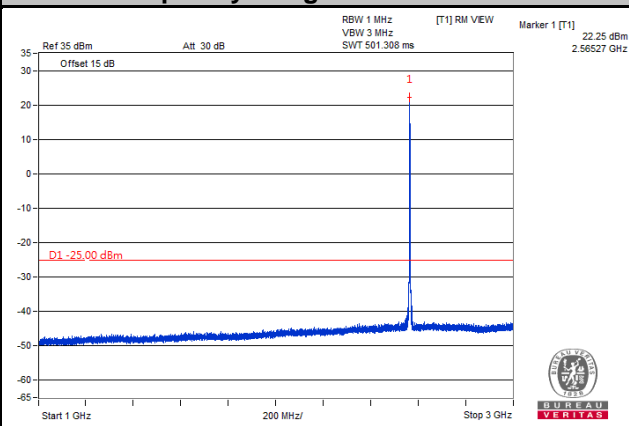
Channel Bandwidth: 5 MHz

Channel 21425

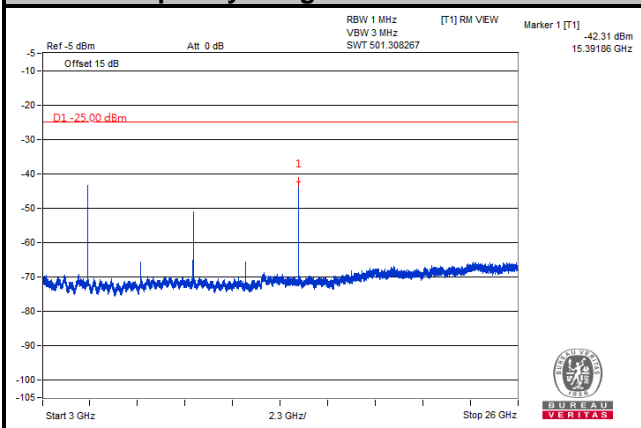
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 3 GHz

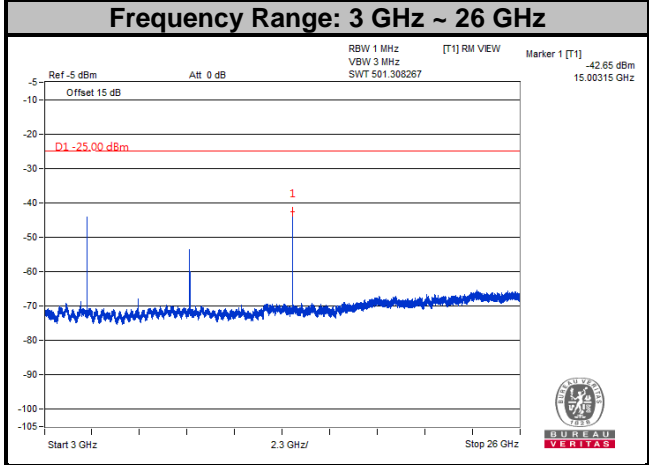
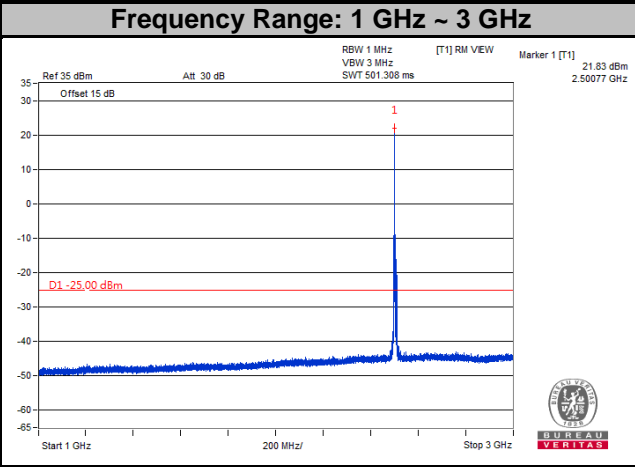
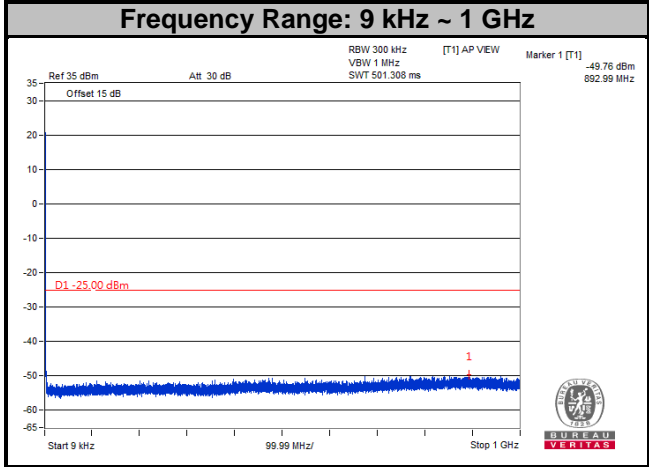


Frequency Range: 3 GHz ~ 26 GHz

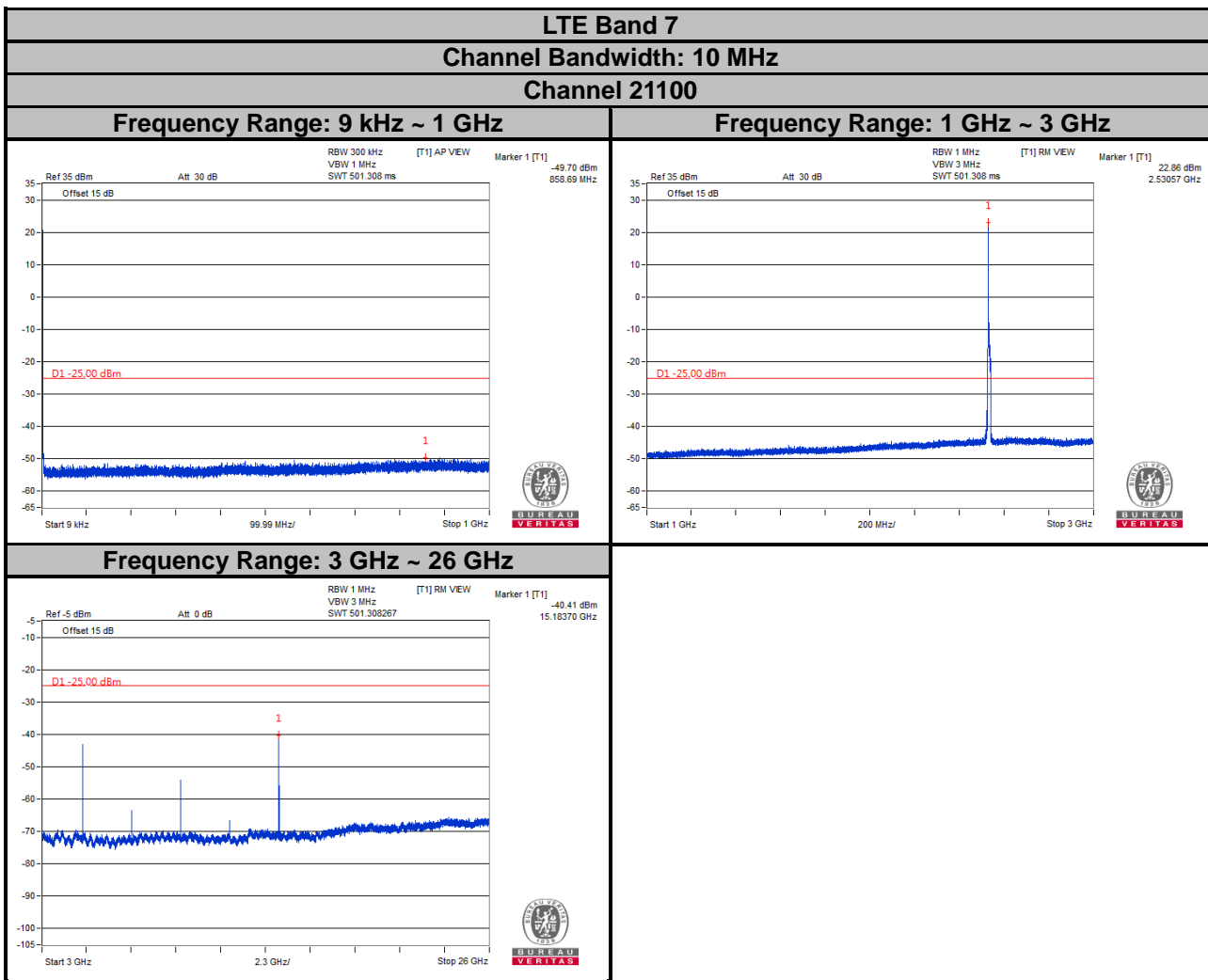


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

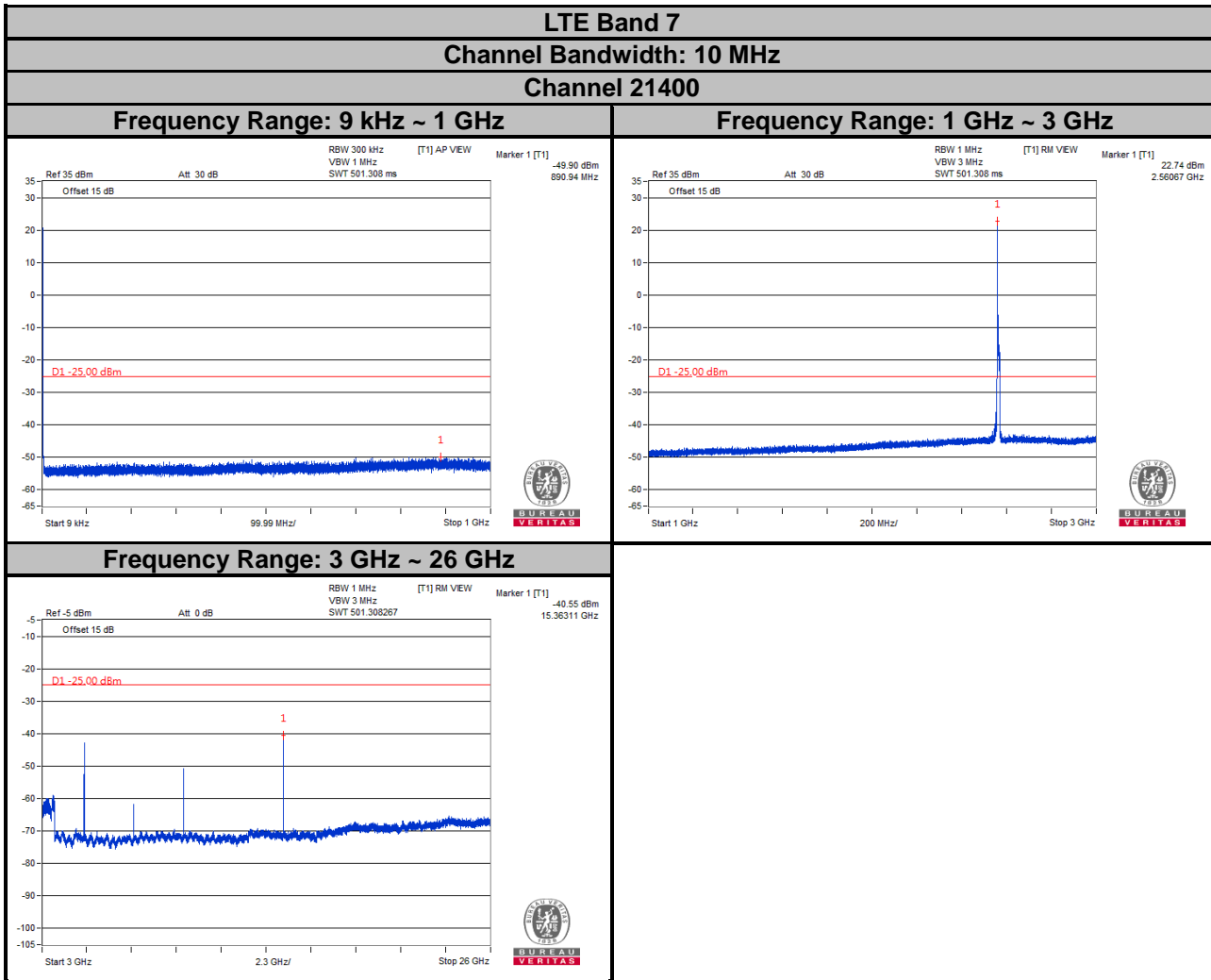
LTE Band 7
Channel Bandwidth: 10 MHz
Channel 20800



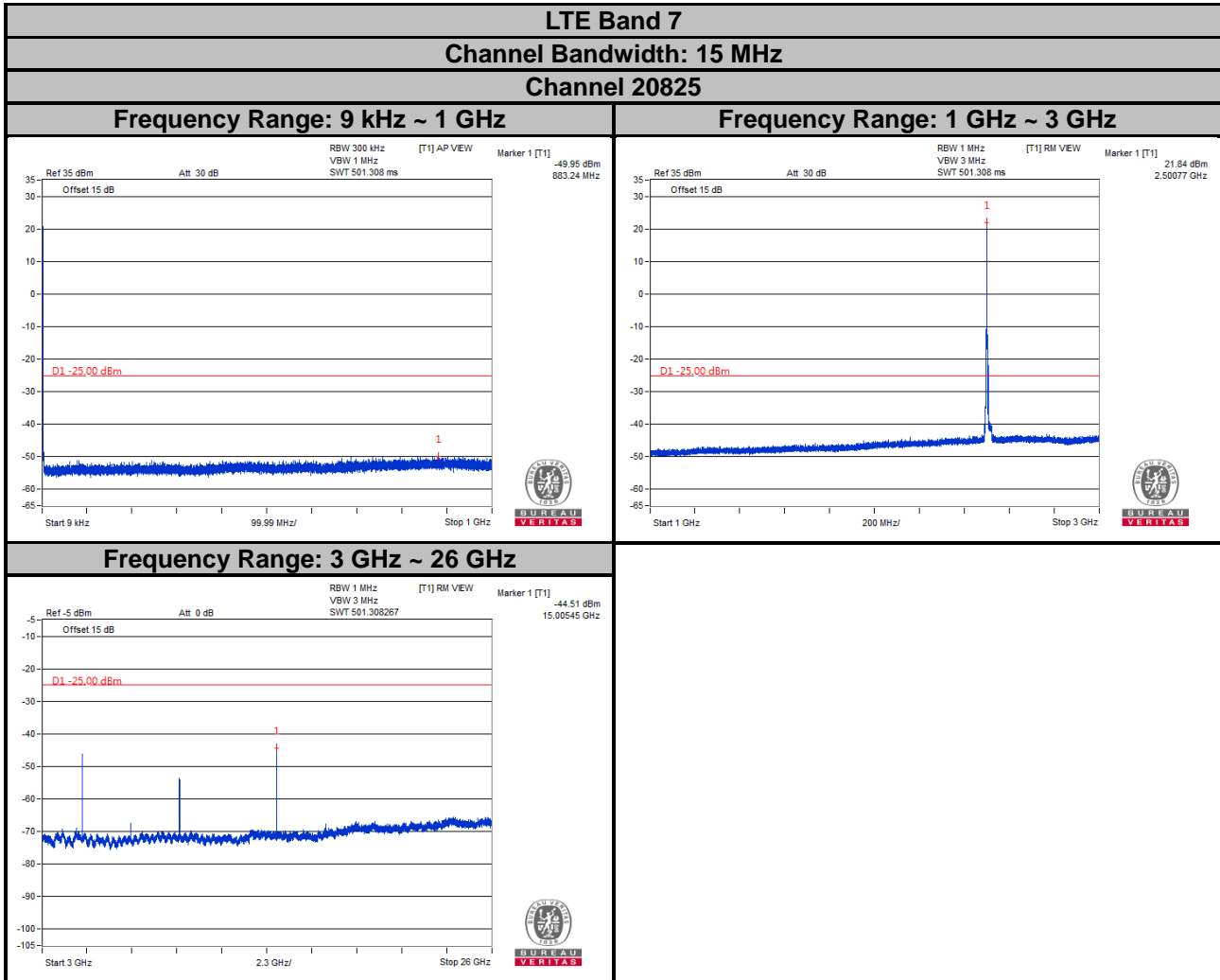
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



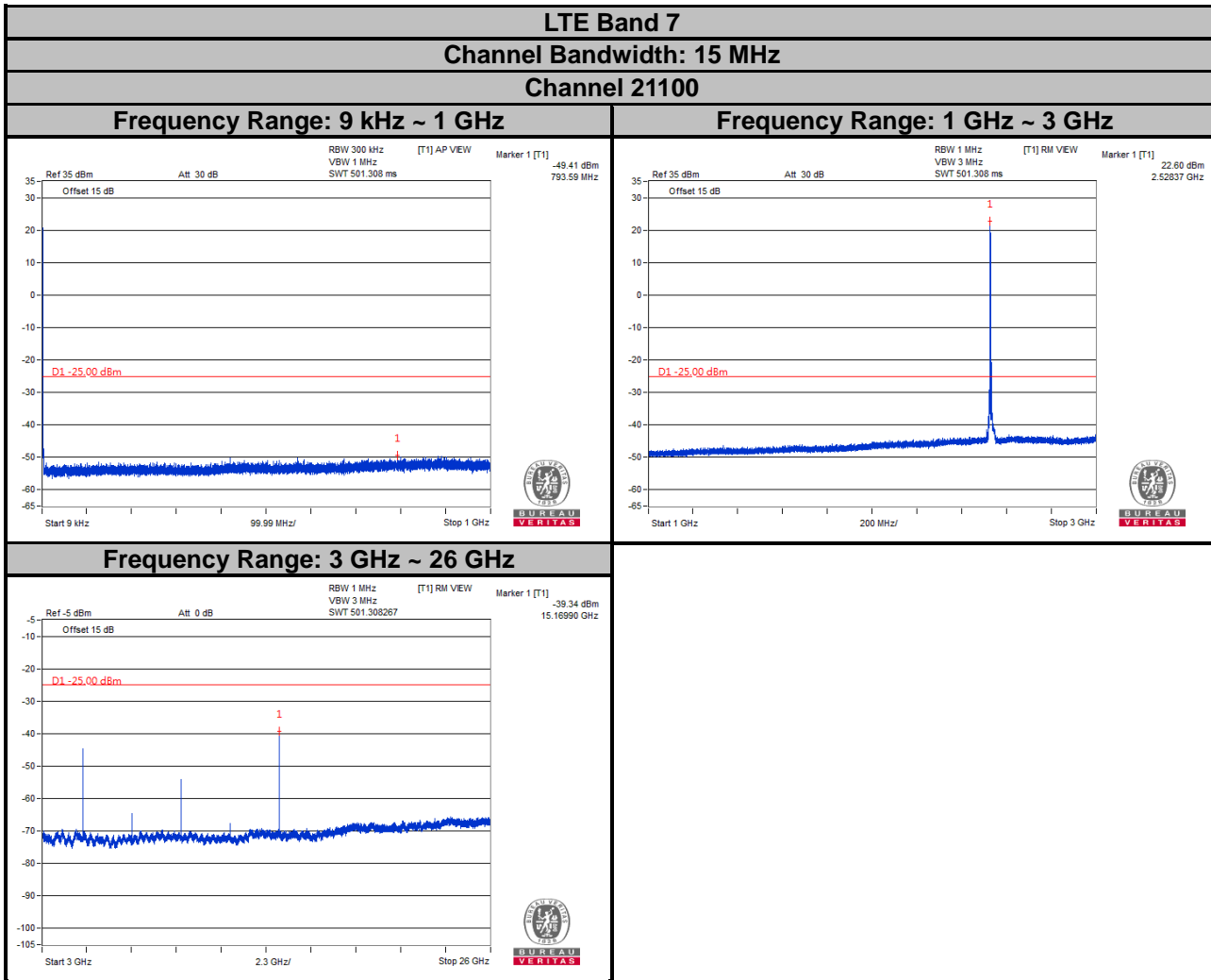
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



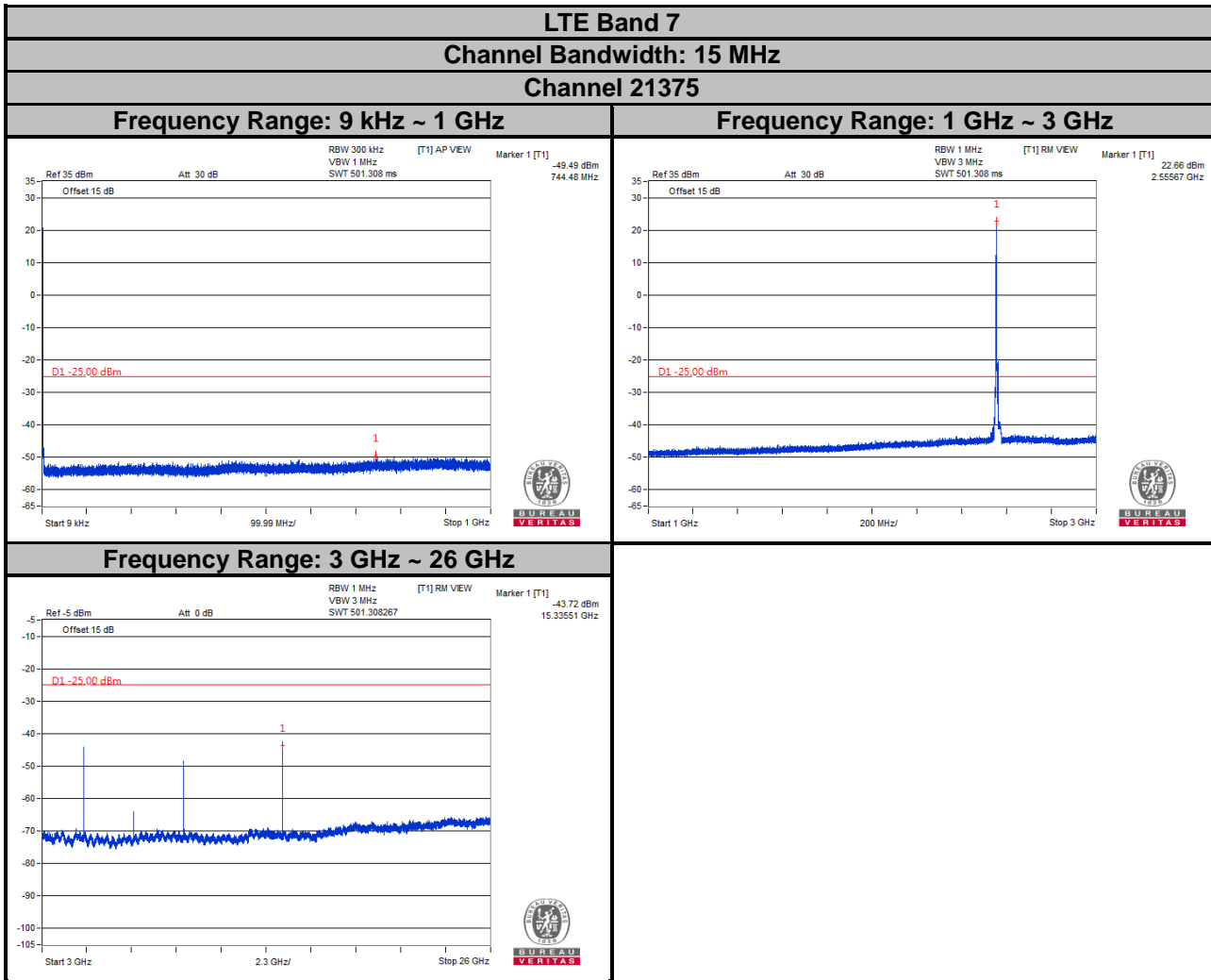
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

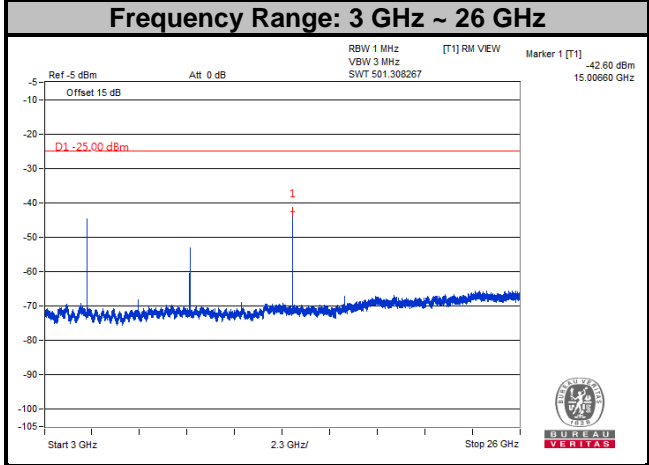
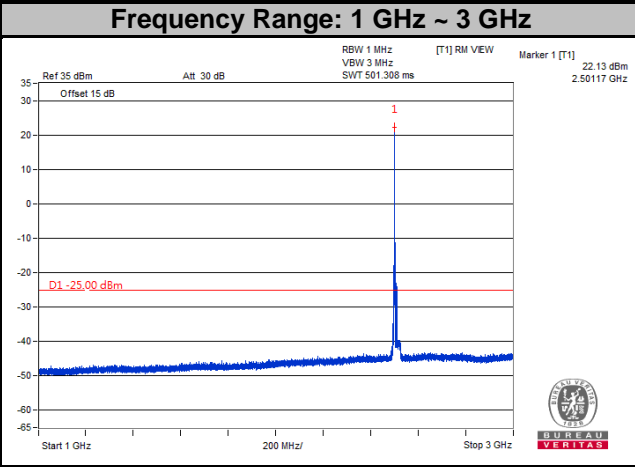
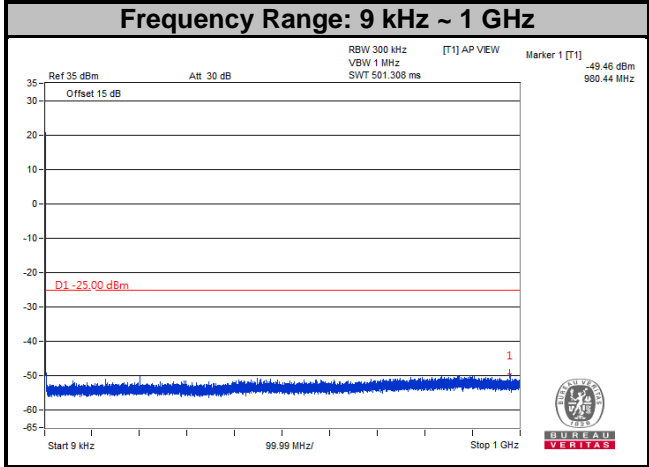


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

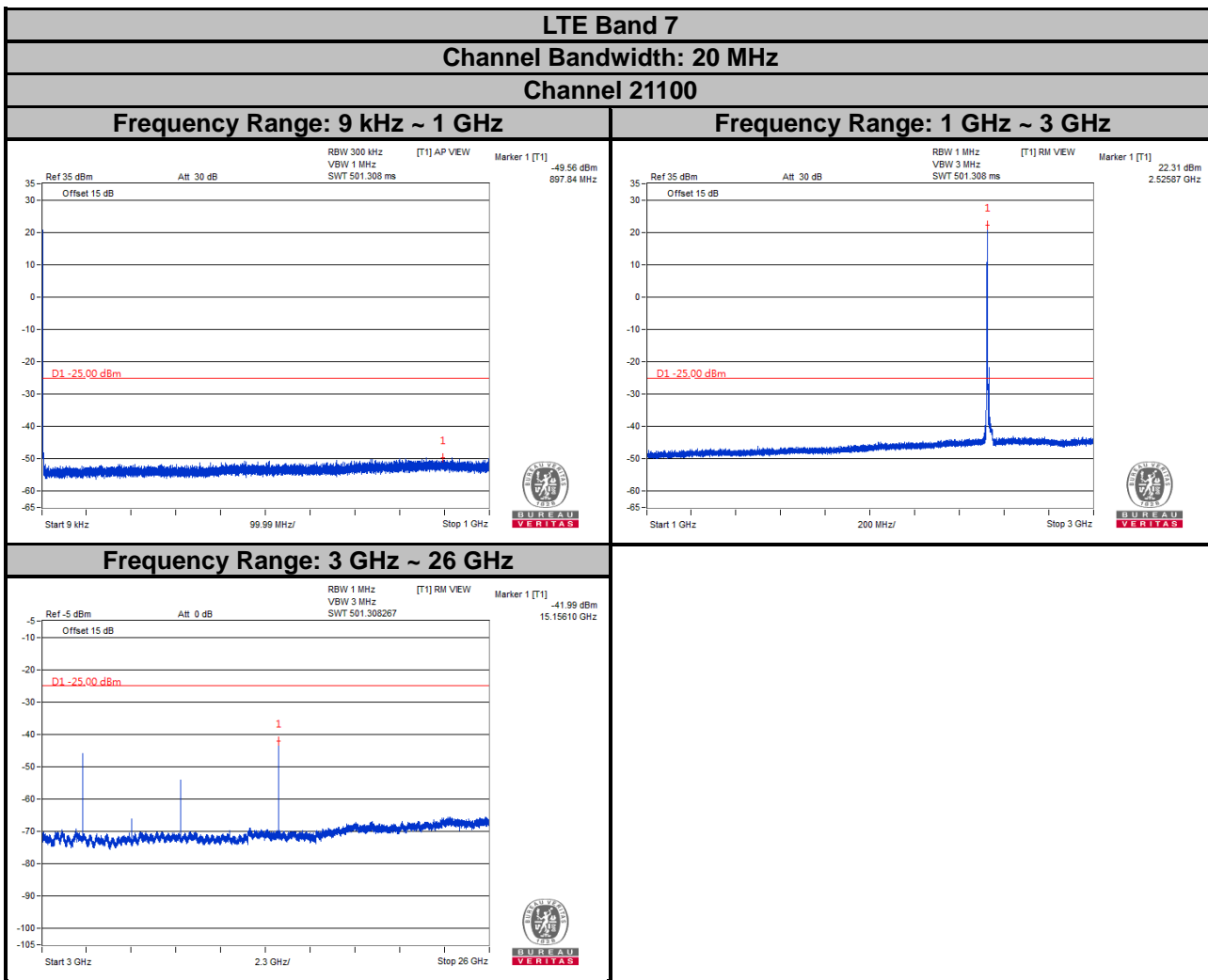


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

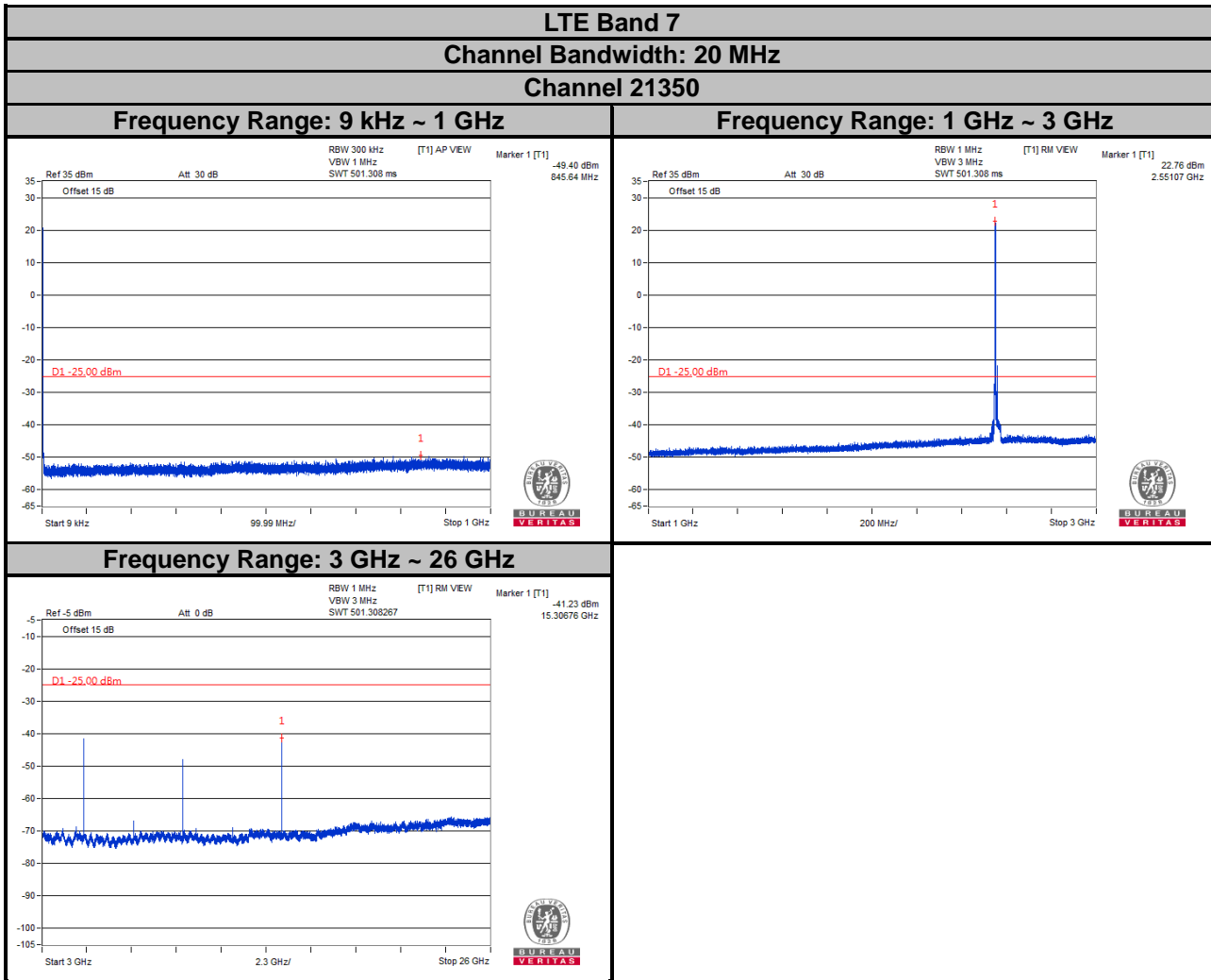
LTE Band 7
Channel Bandwidth: 20 MHz
Channel 20850



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



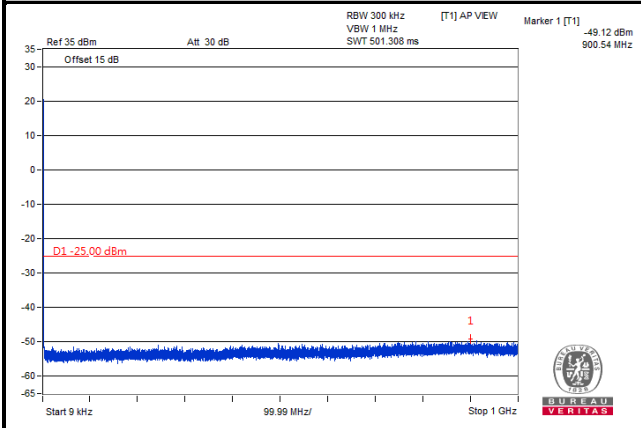
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 38

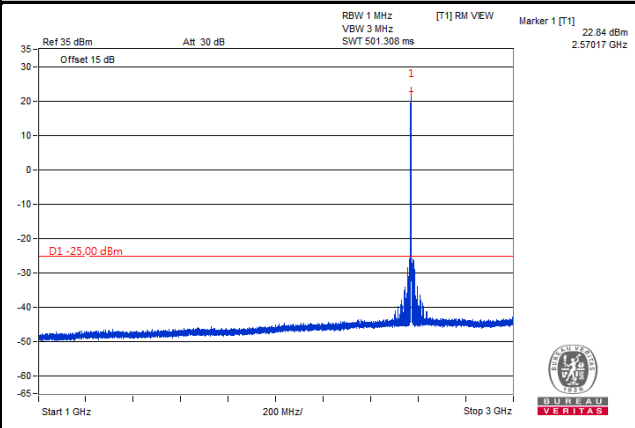
Channel Bandwidth: 5 MHz

Channel 37775

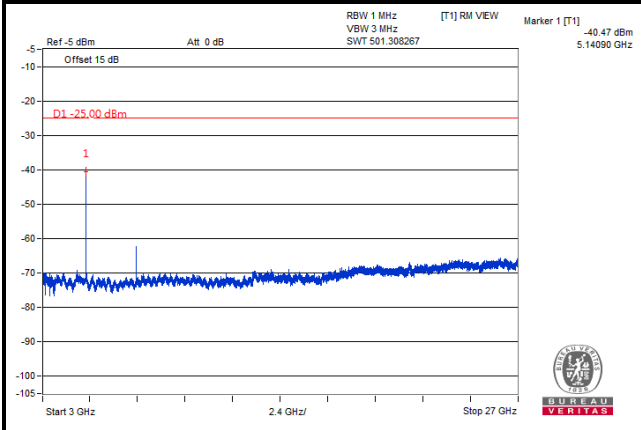
Frequency Range: 9 kHz ~ 1 GHz



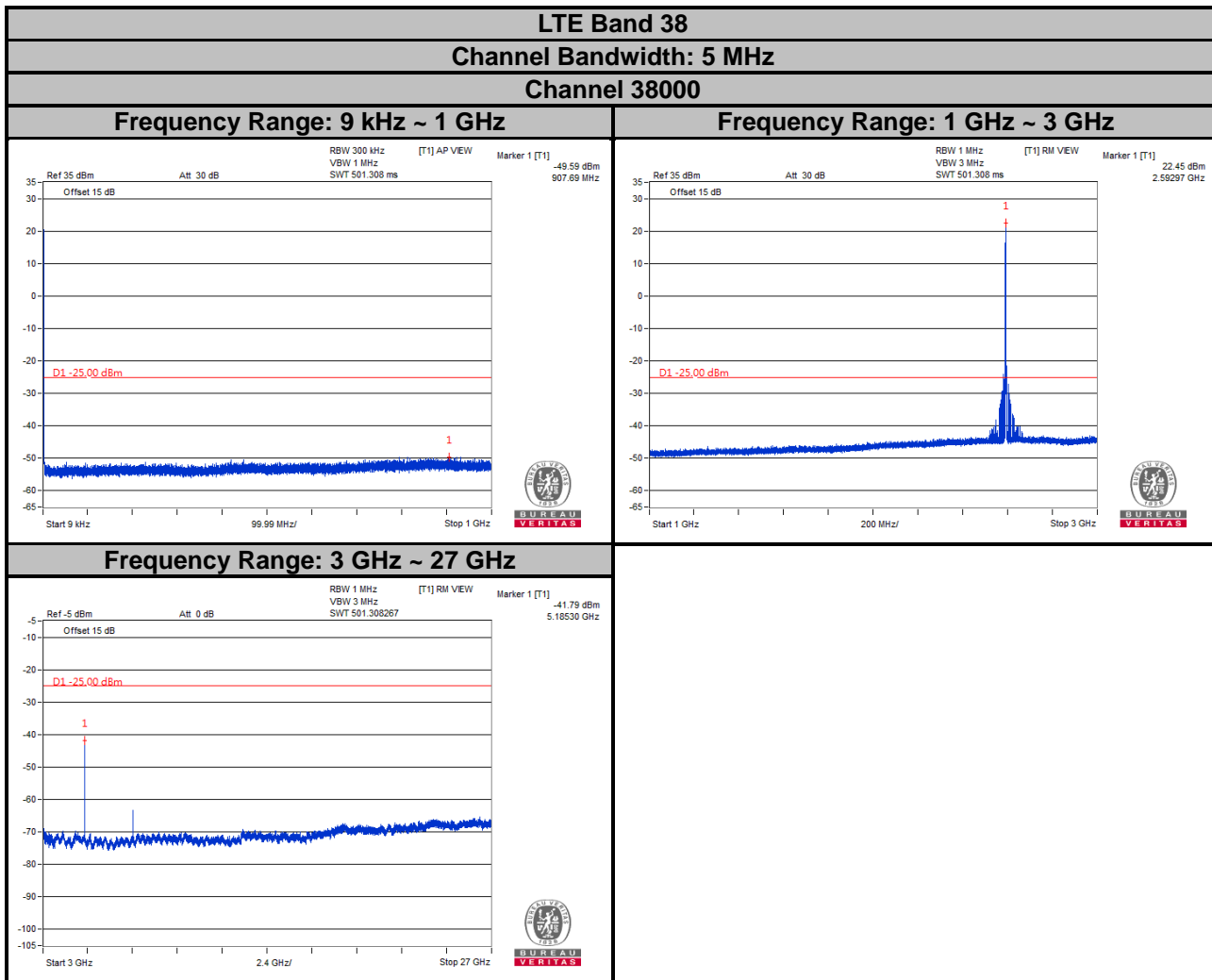
Frequency Range: 1 GHz ~ 3 GHz



Frequency Range: 3 GHz ~ 27 GHz



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



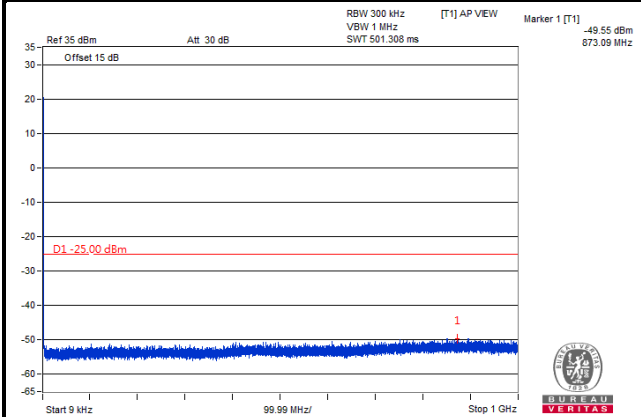
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 38

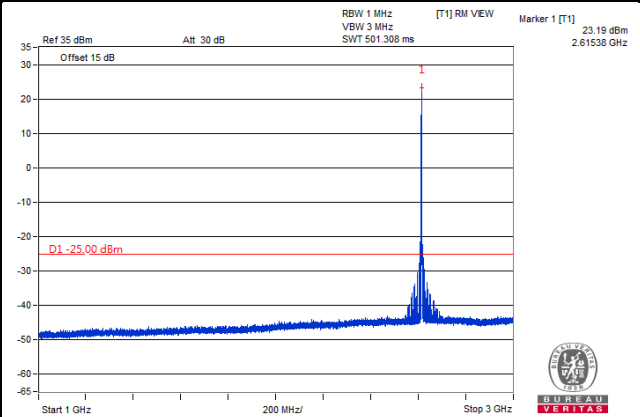
Channel Bandwidth: 5 MHz

Channel 38225

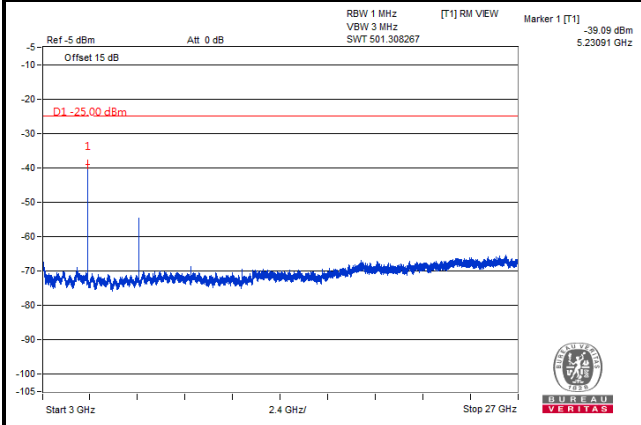
Frequency Range: 9 kHz ~ 1 GHz



Frequency Range: 1 GHz ~ 3 GHz

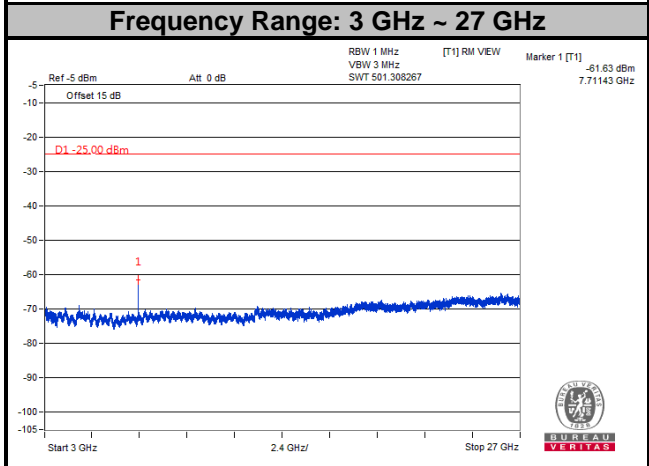
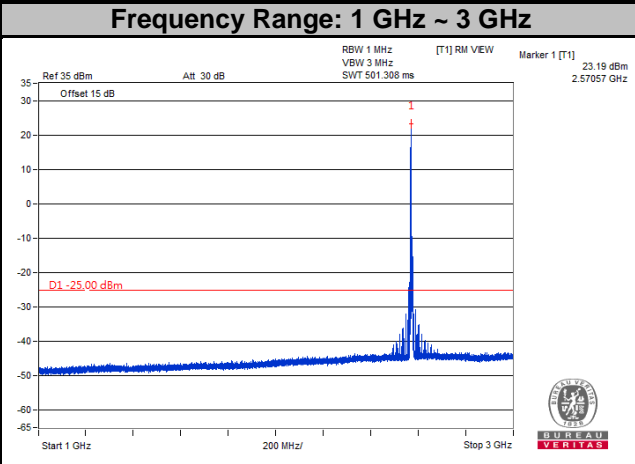
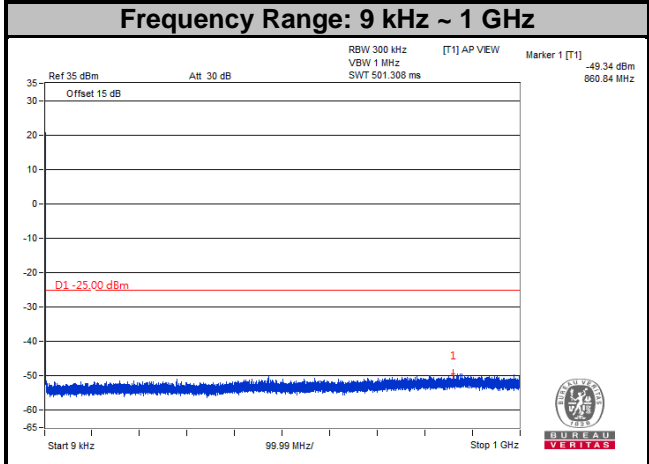


Frequency Range: 3 GHz ~ 27 GHz

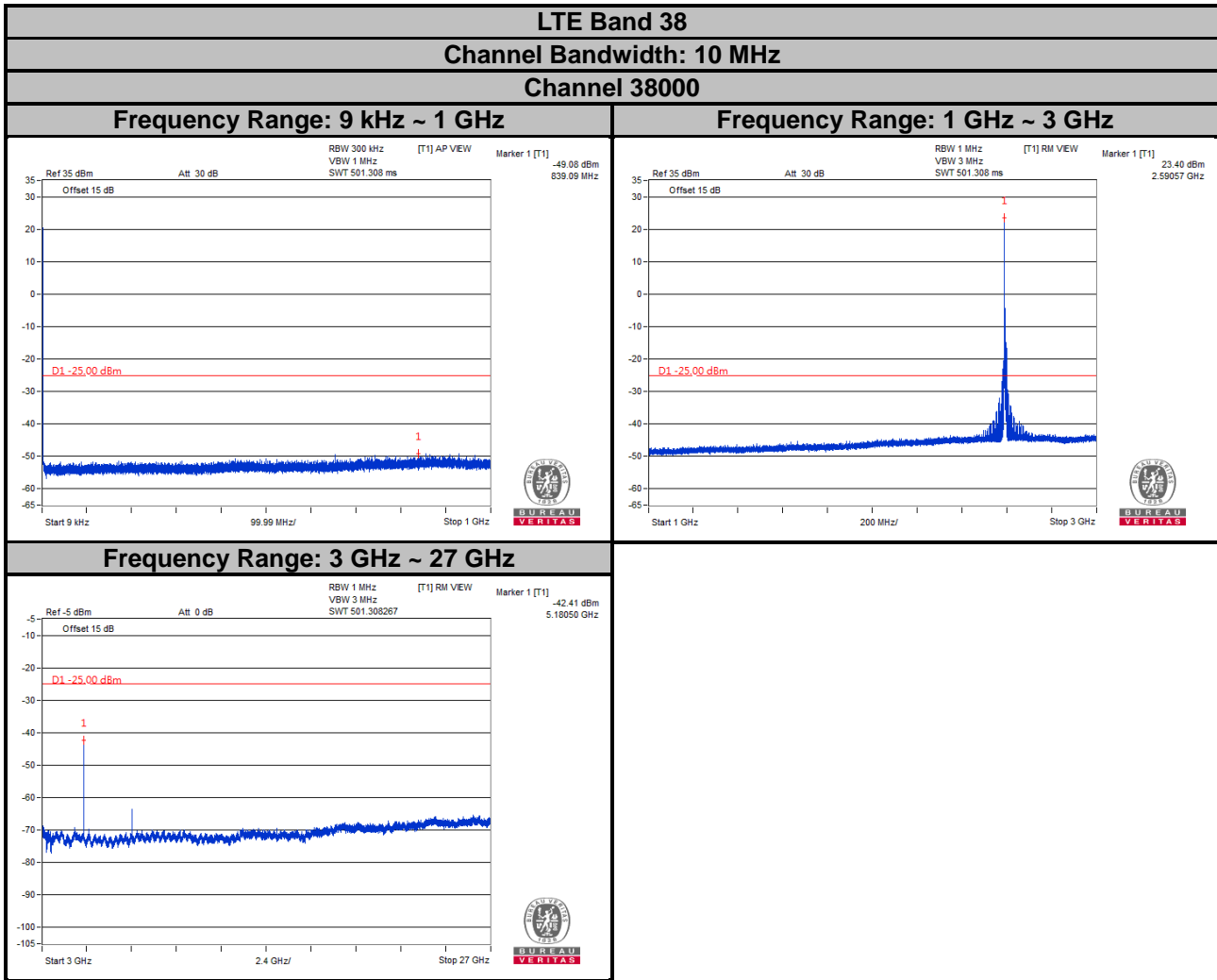


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

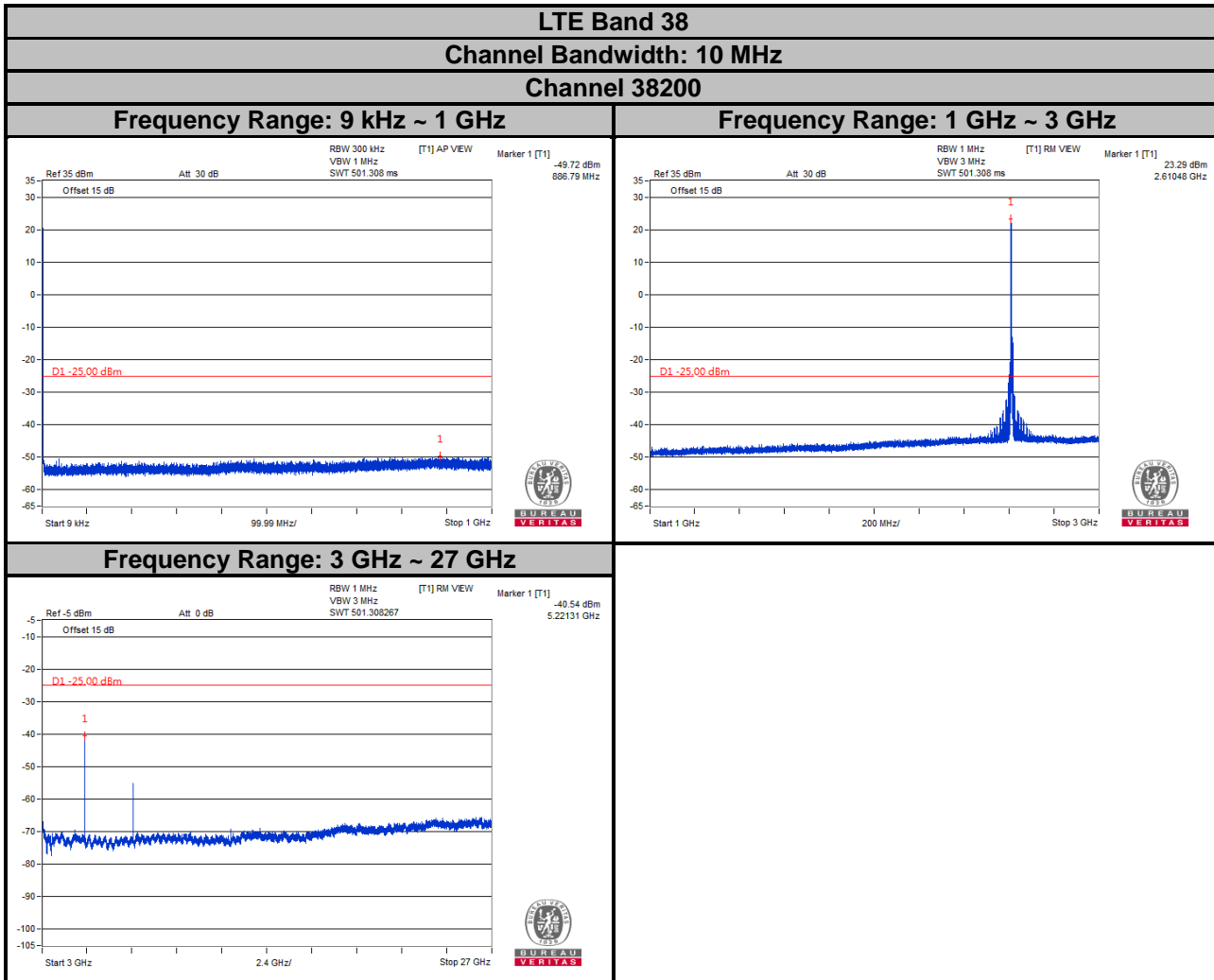
LTE Band 38
Channel Bandwidth: 10 MHz
Channel 37800



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

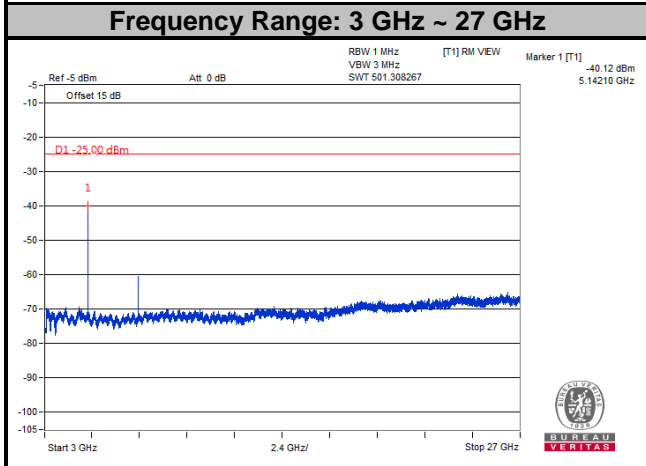
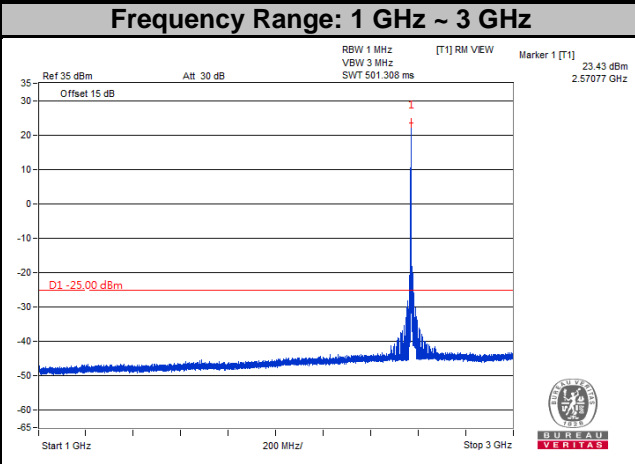
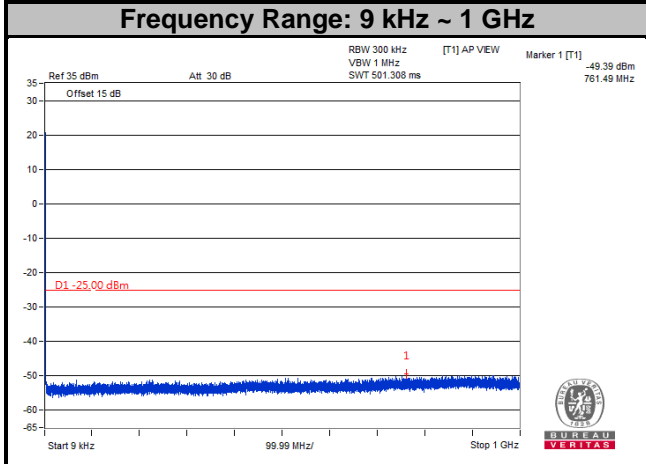


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

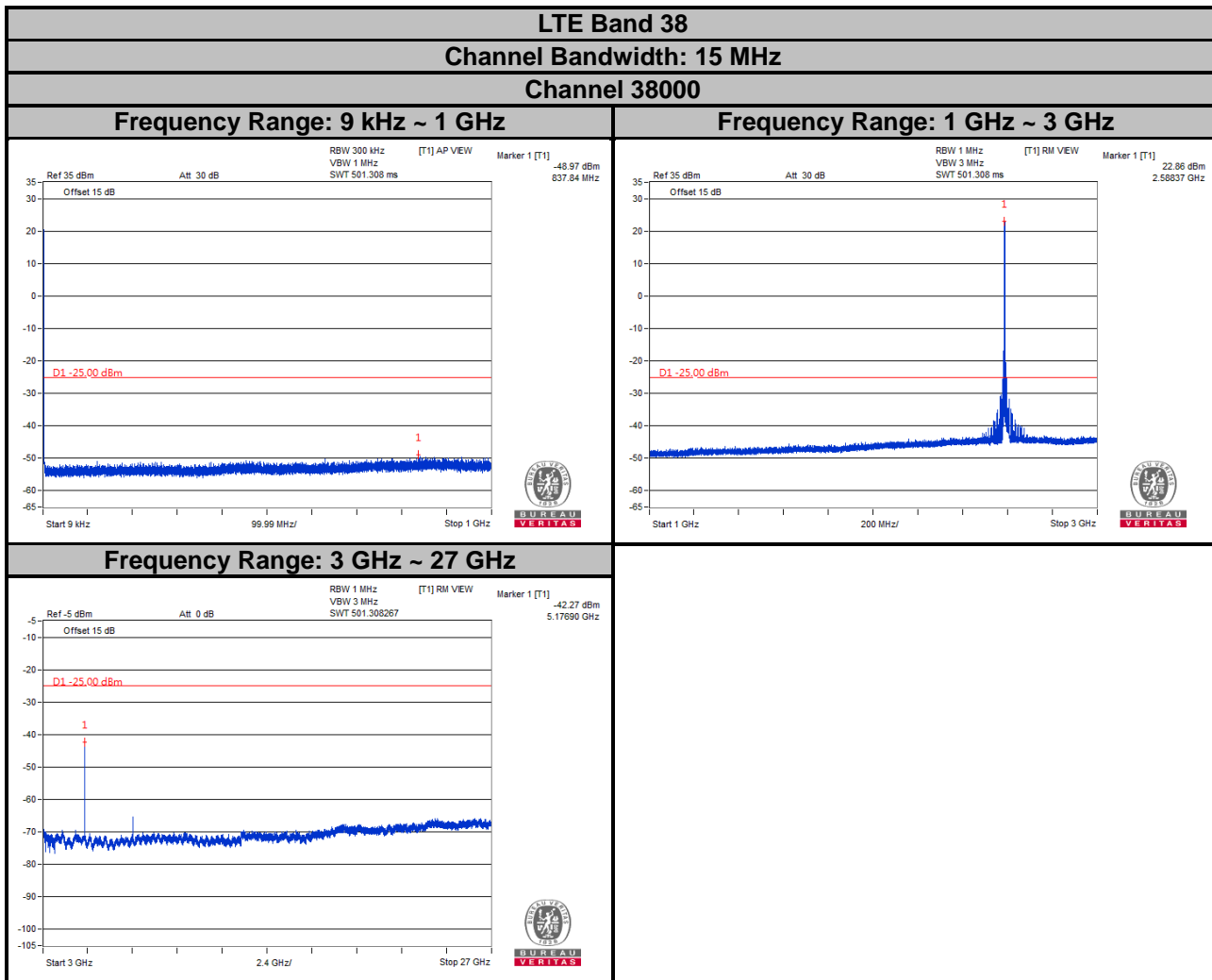


Note: The signal over the limit in 9 kHz is from spectrum analyzer.

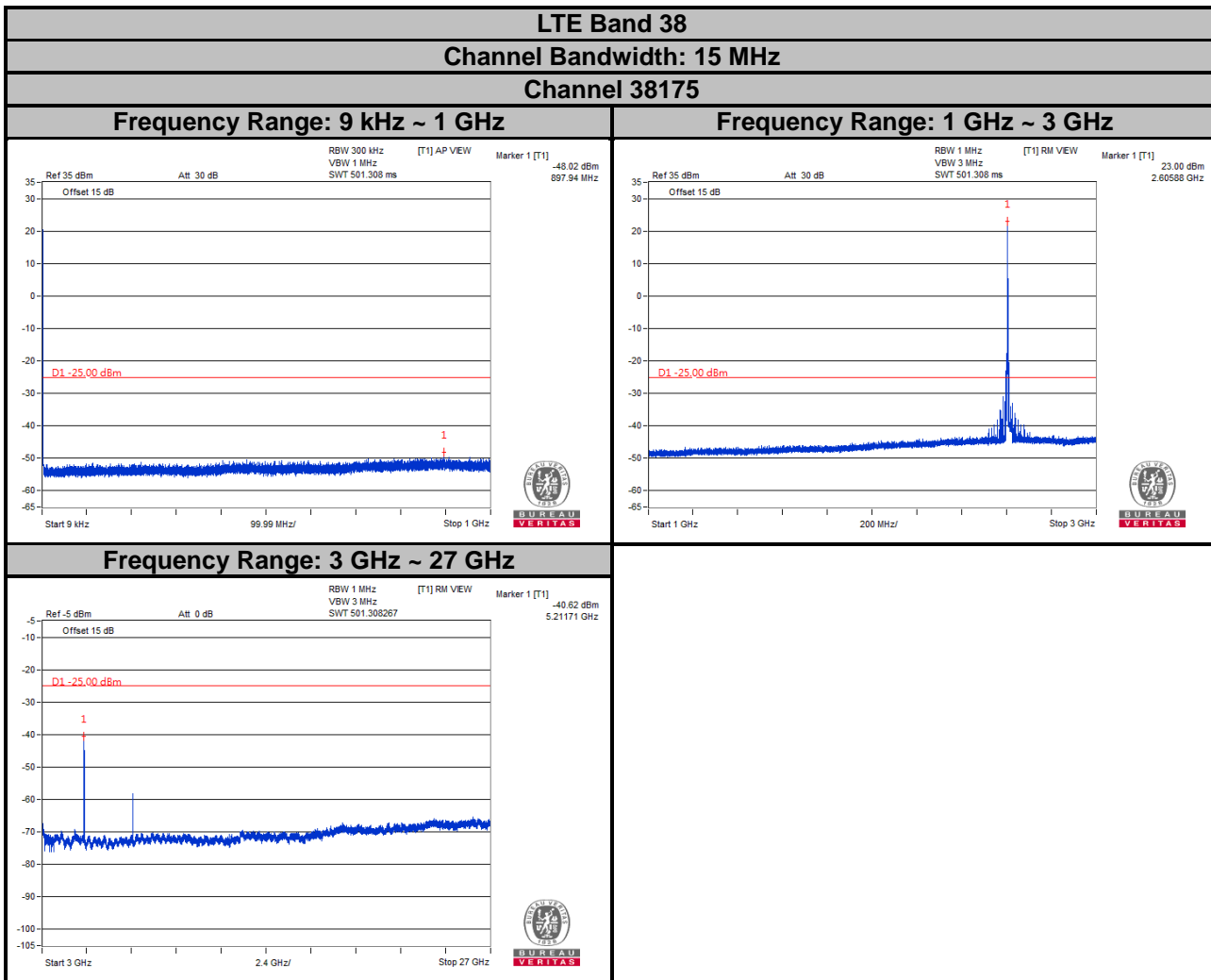
LTE Band 38
Channel Bandwidth: 15 MHz
Channel 37825



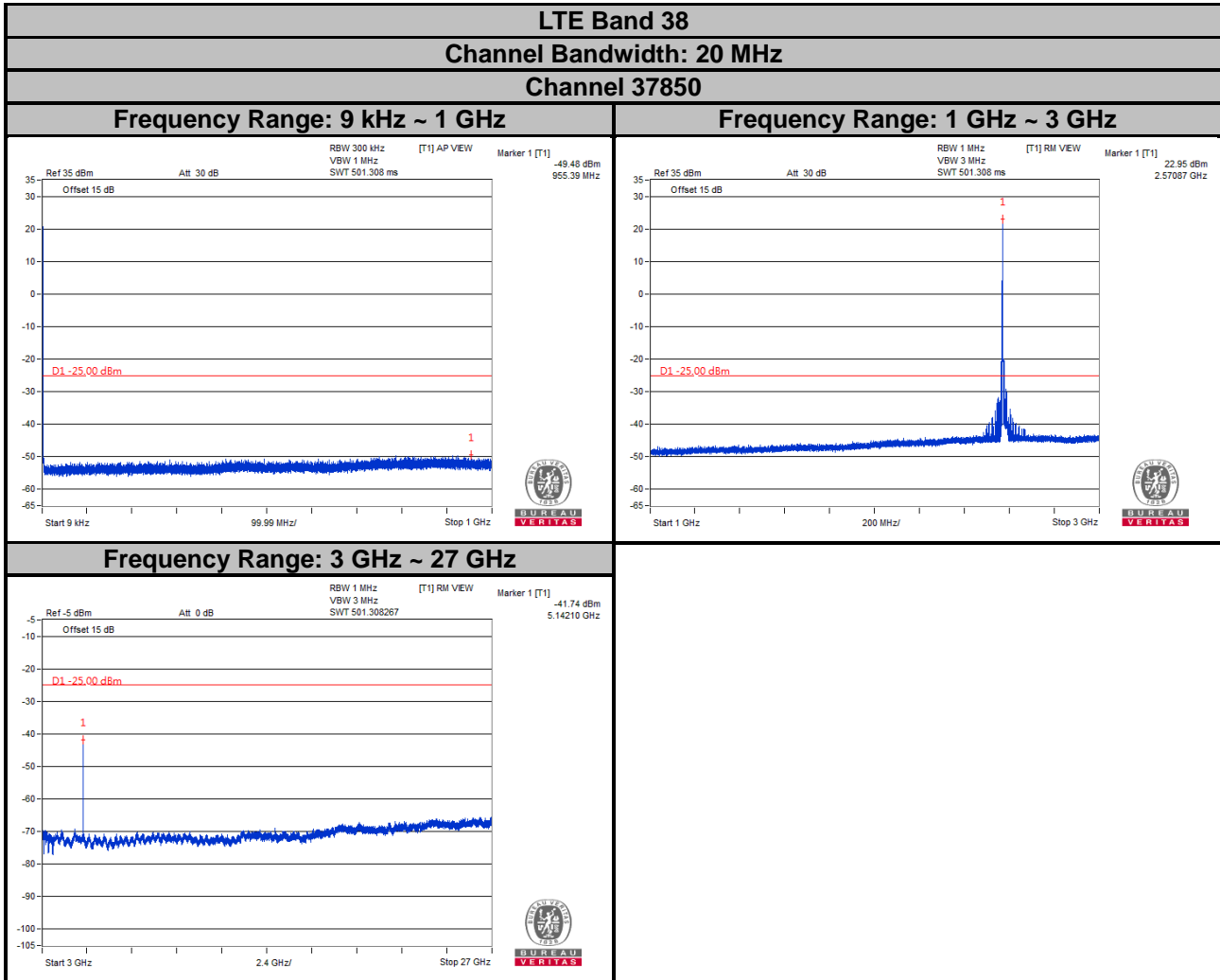
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



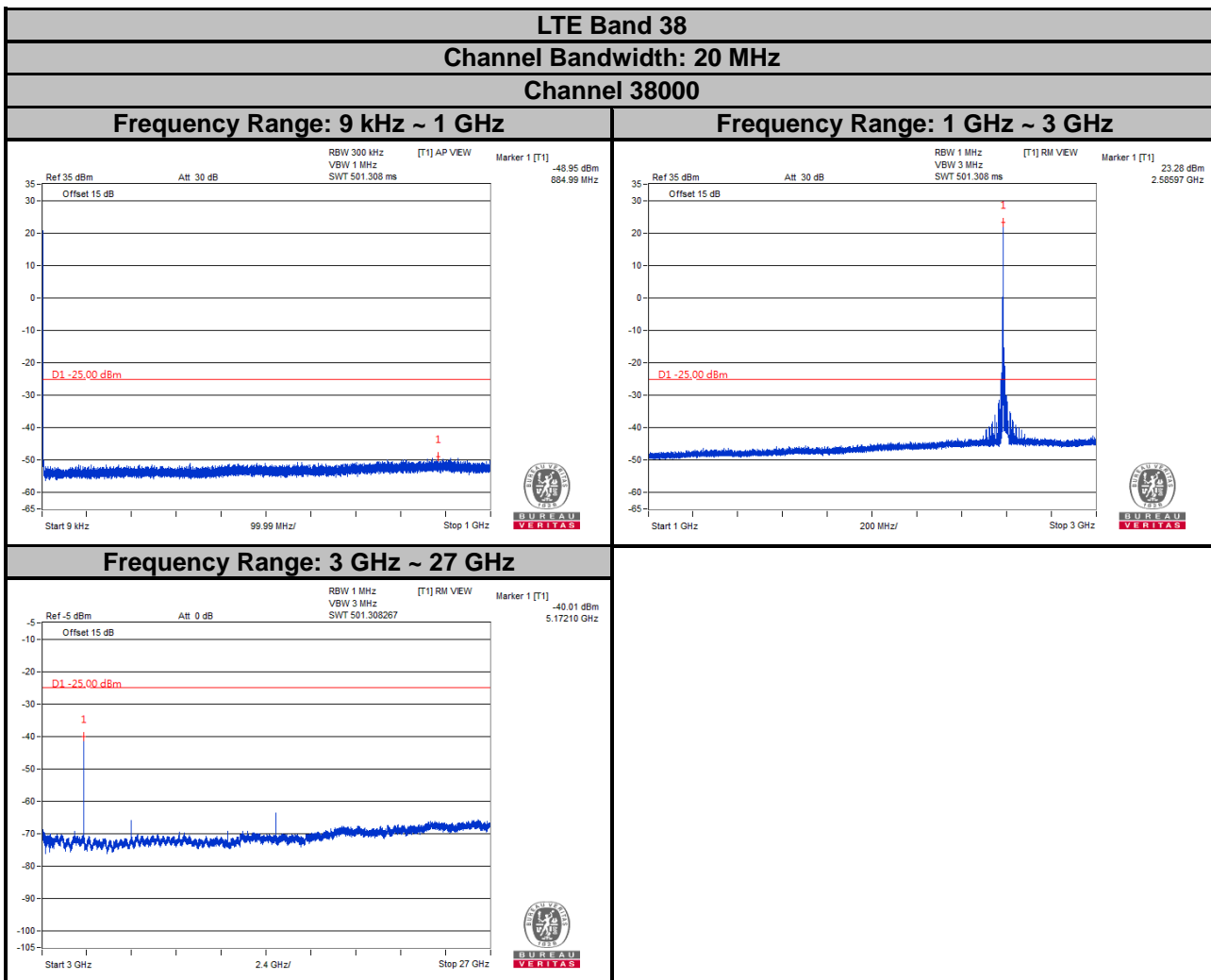
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



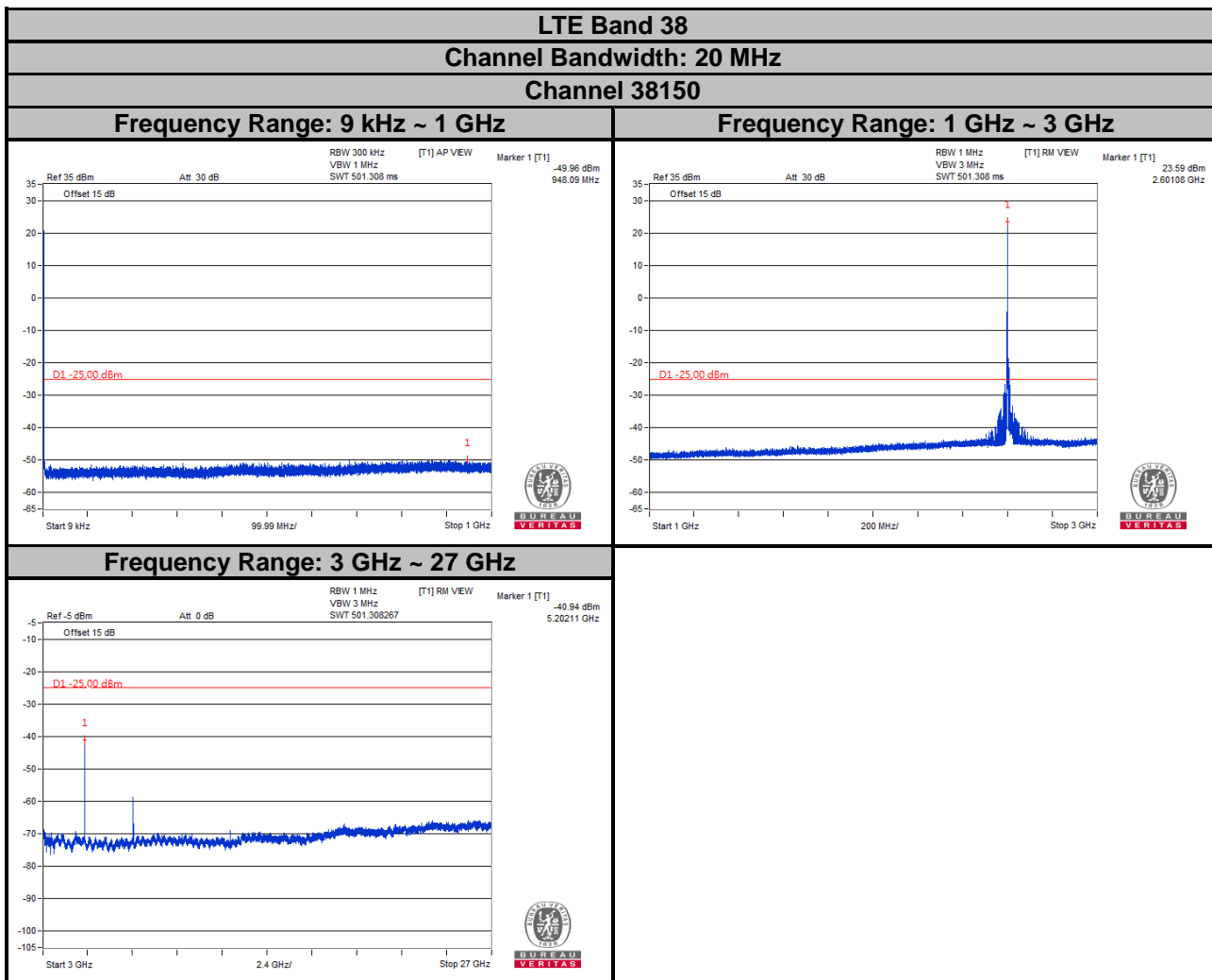
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



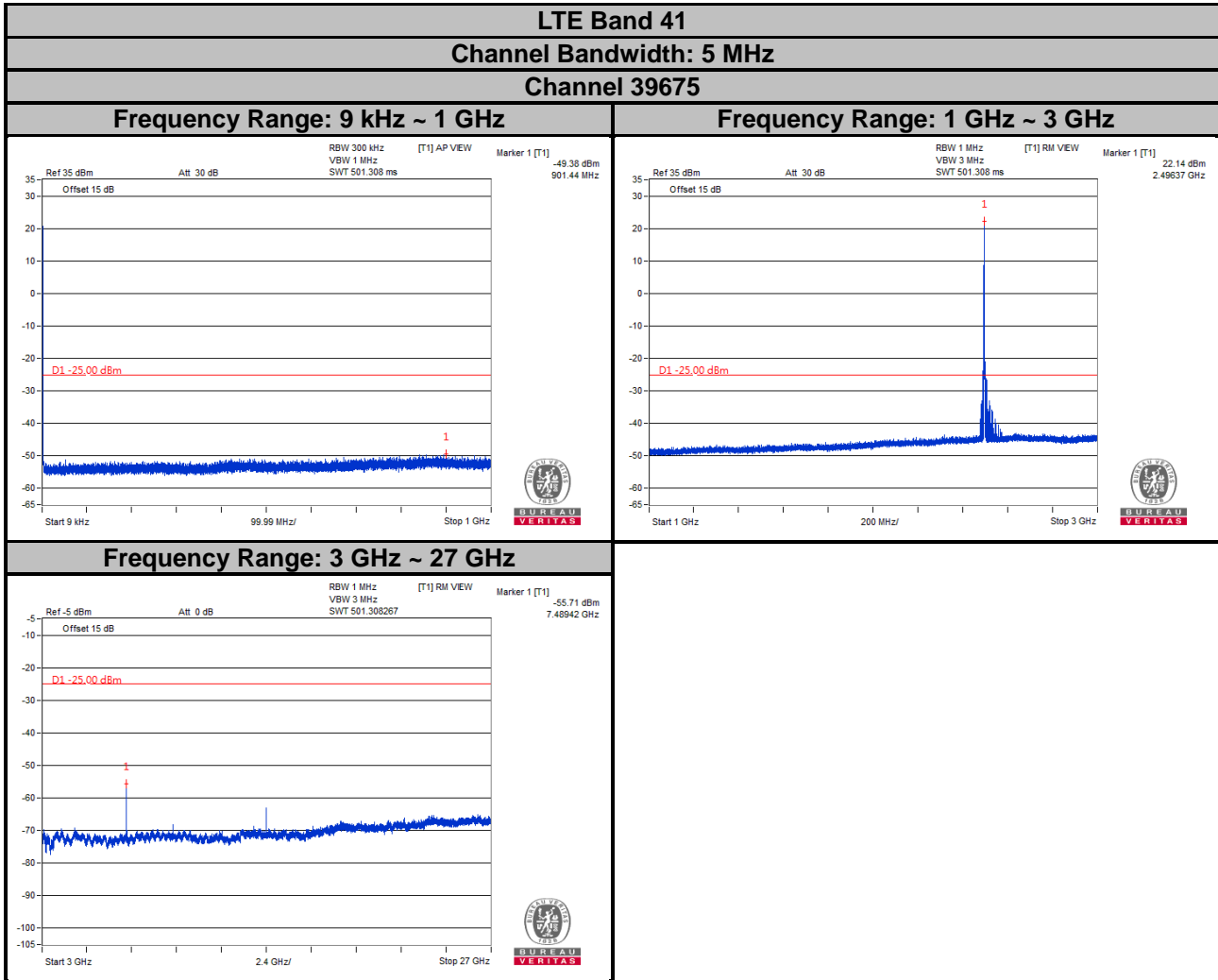
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



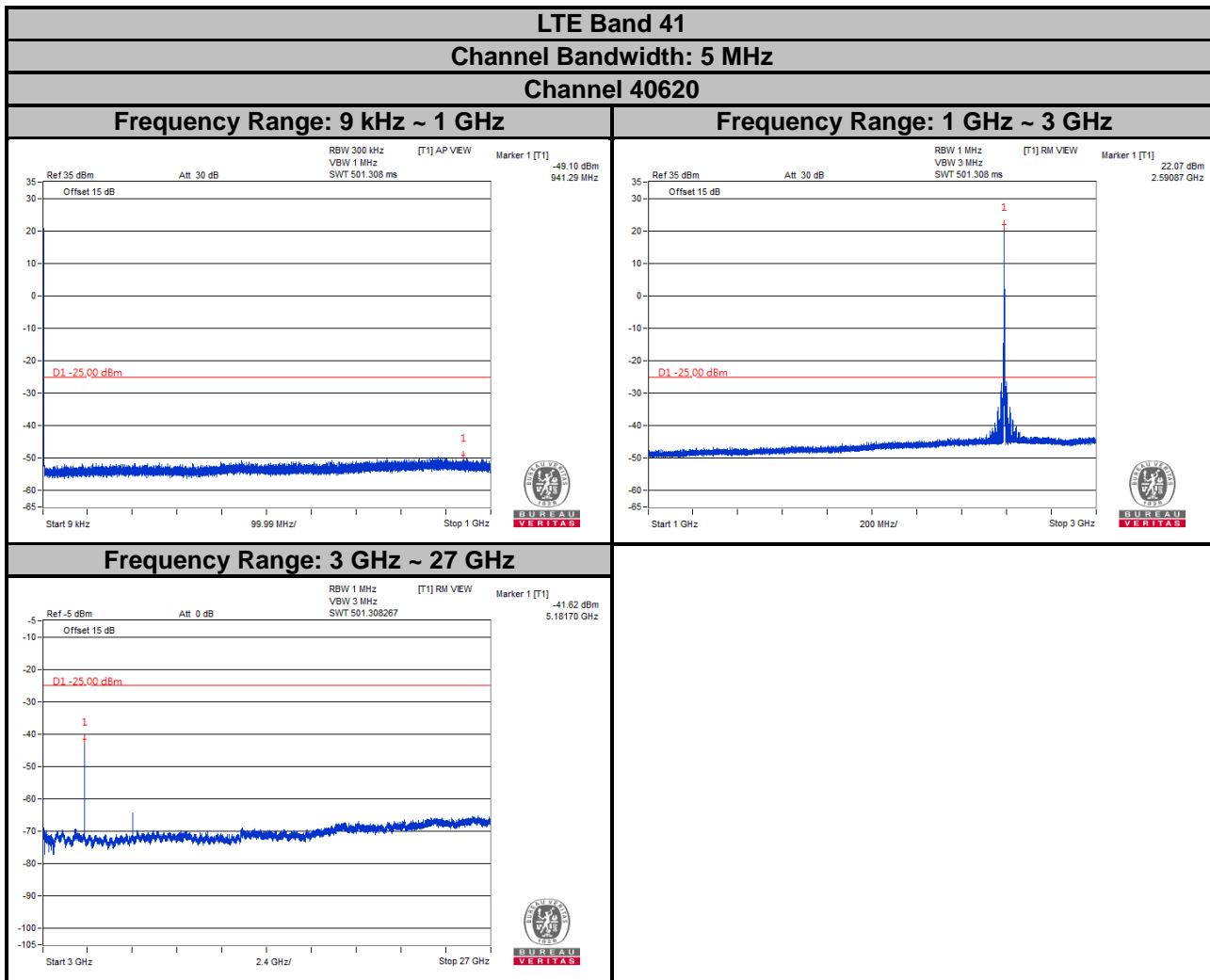
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



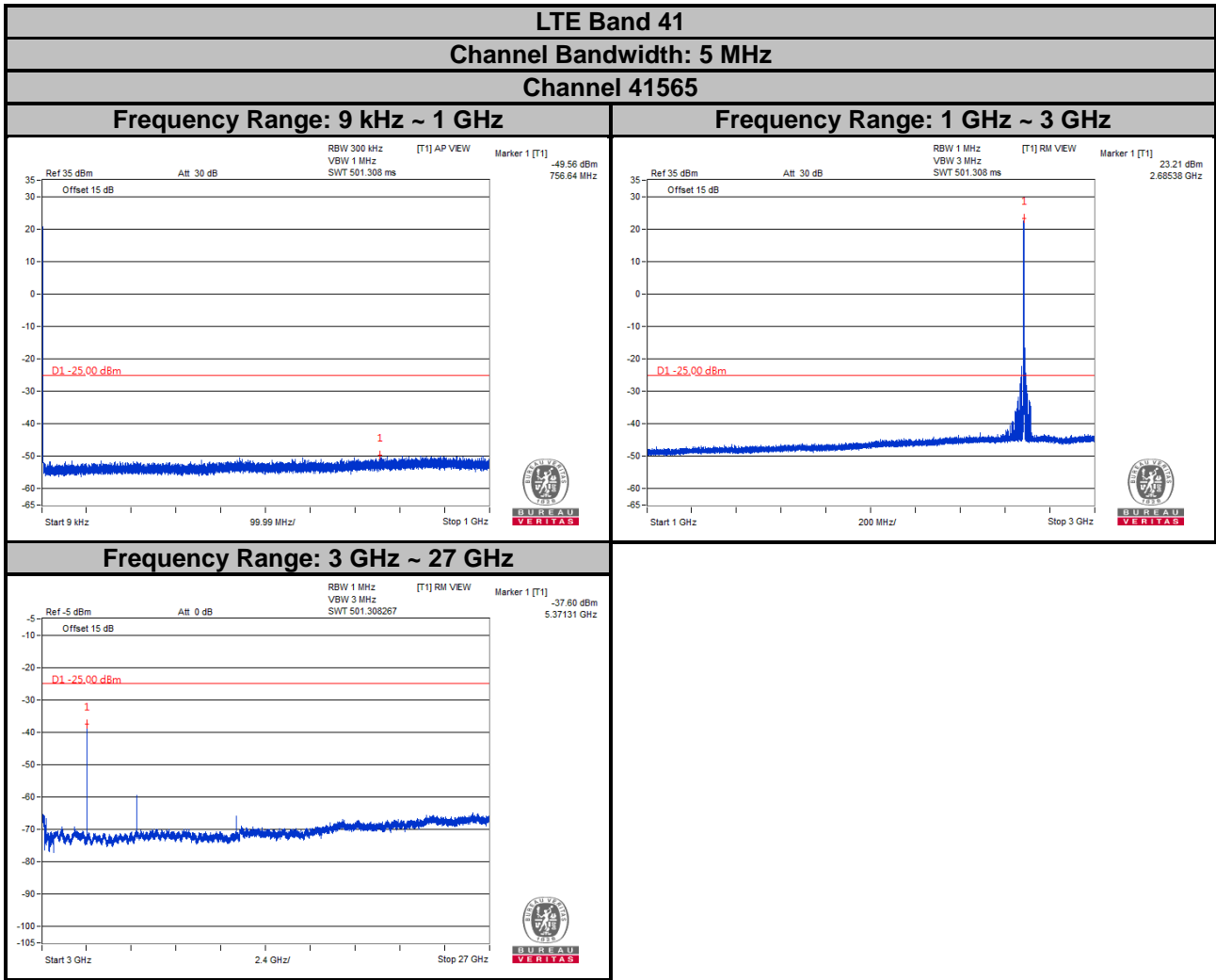
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



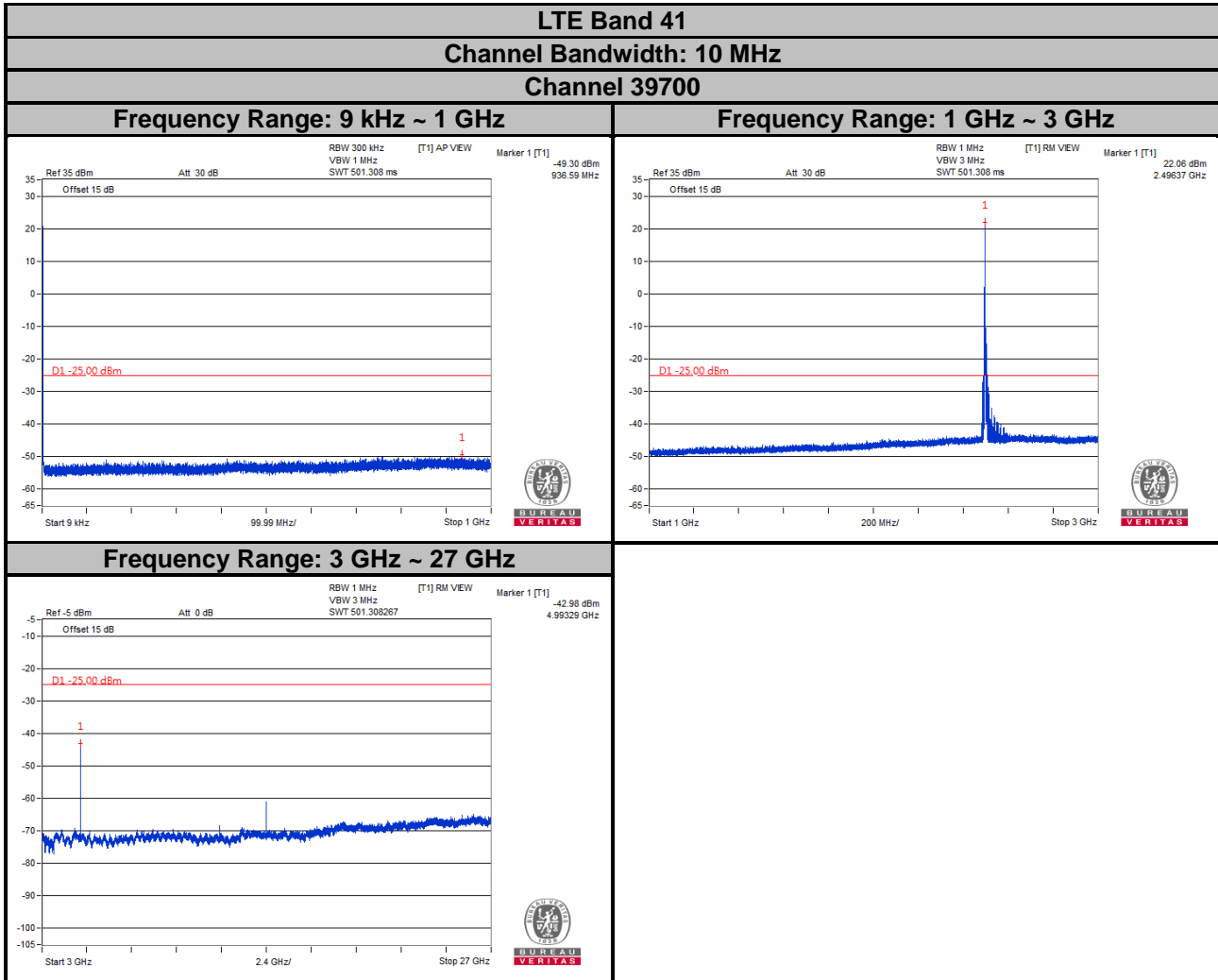
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



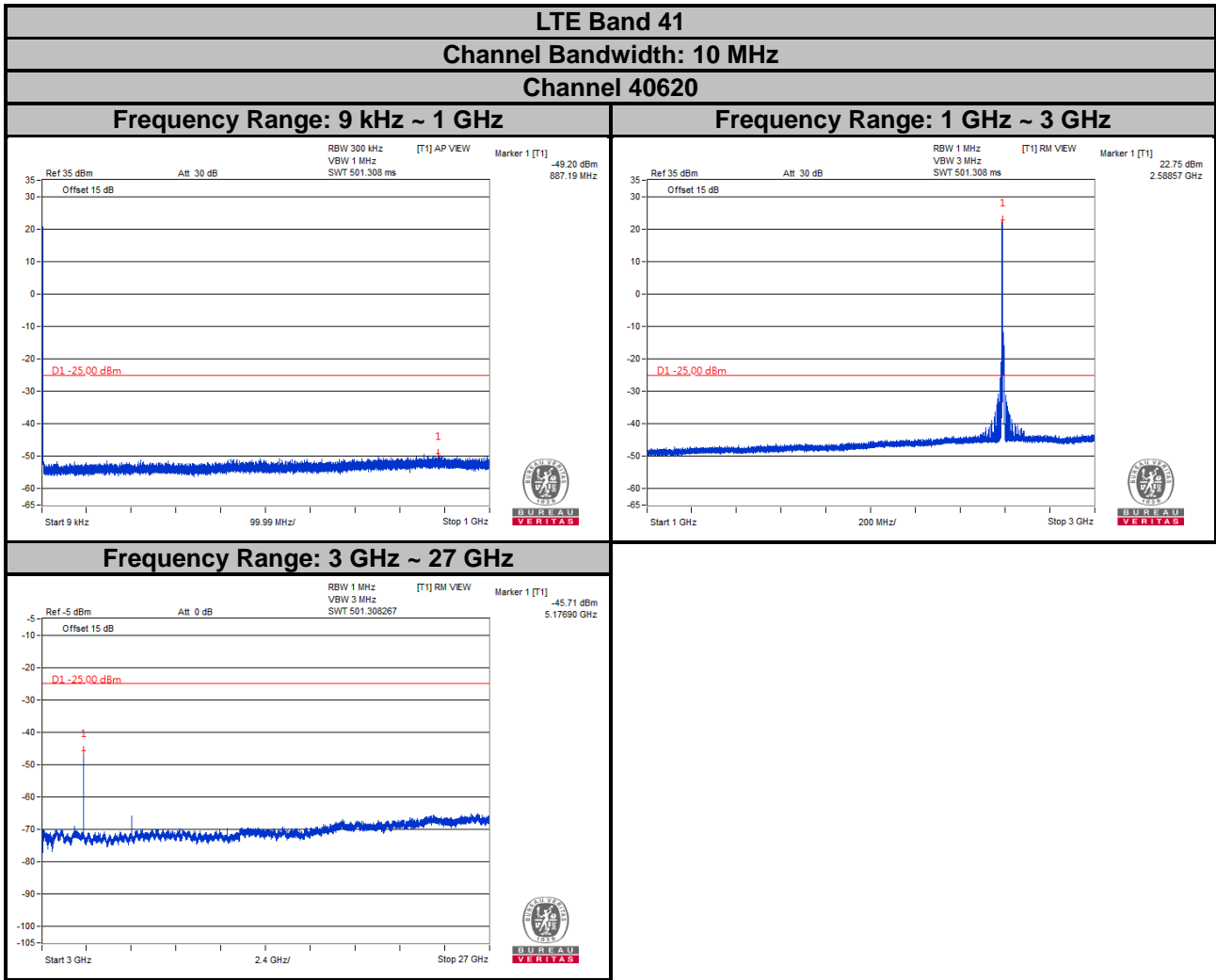
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



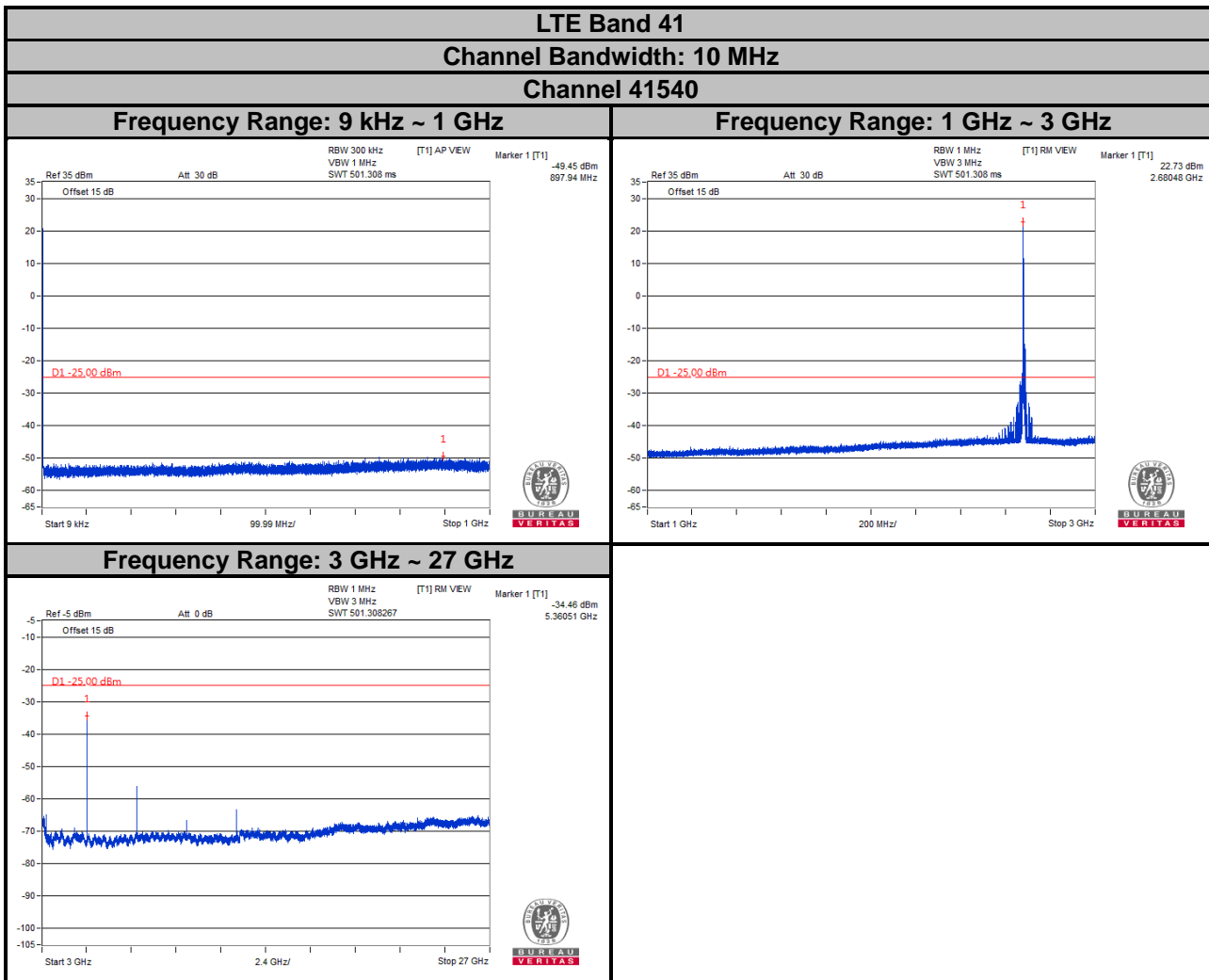
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



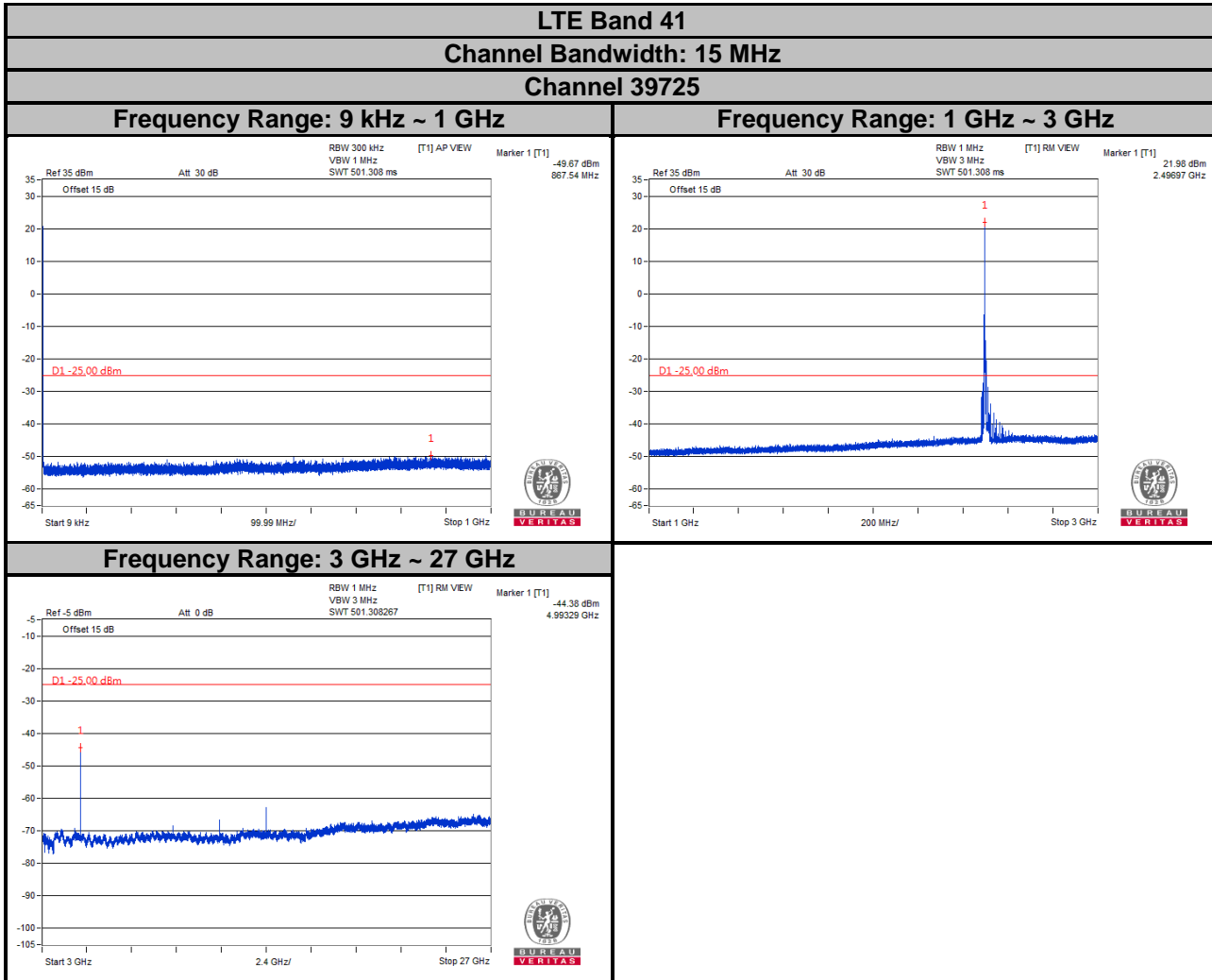
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



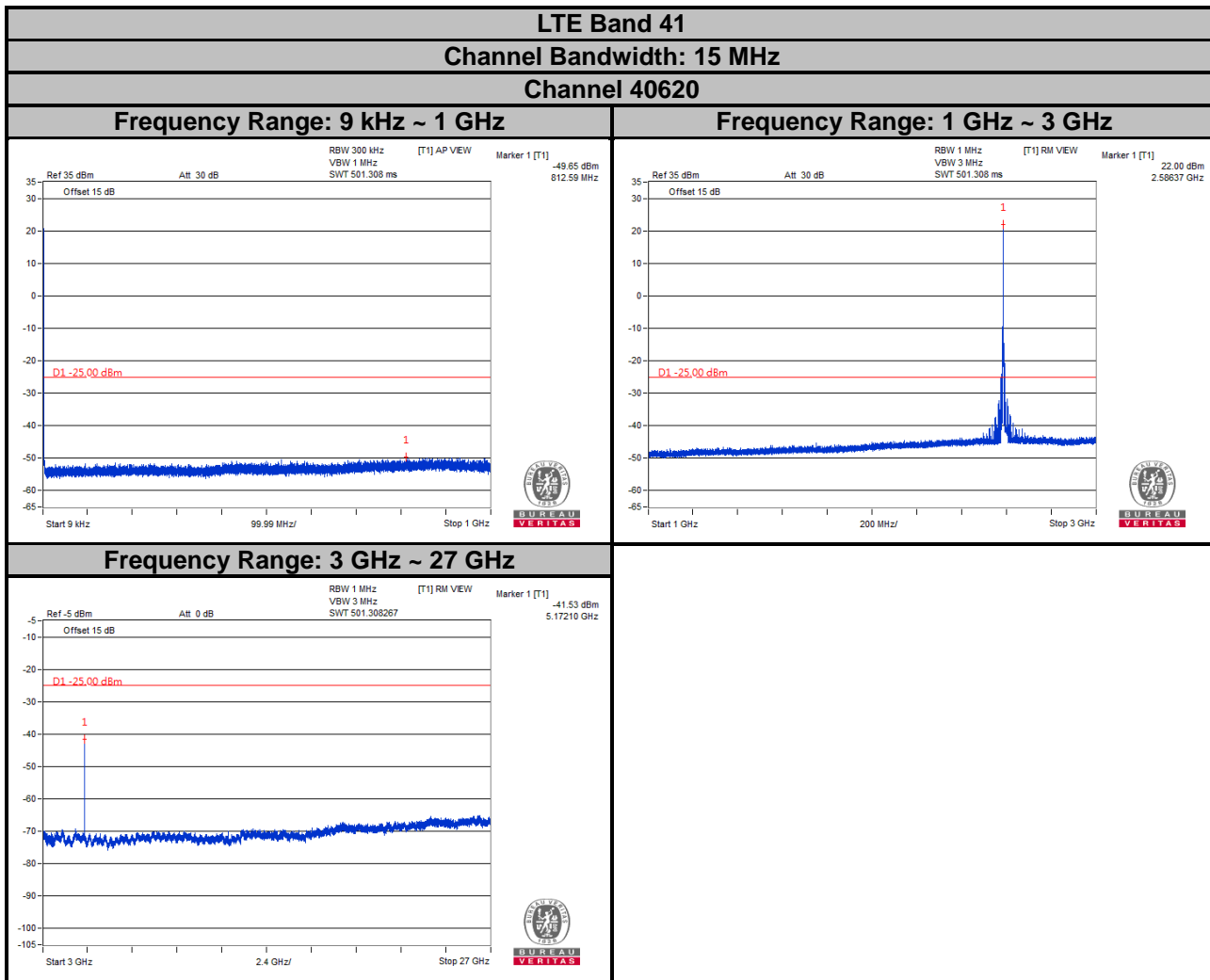
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



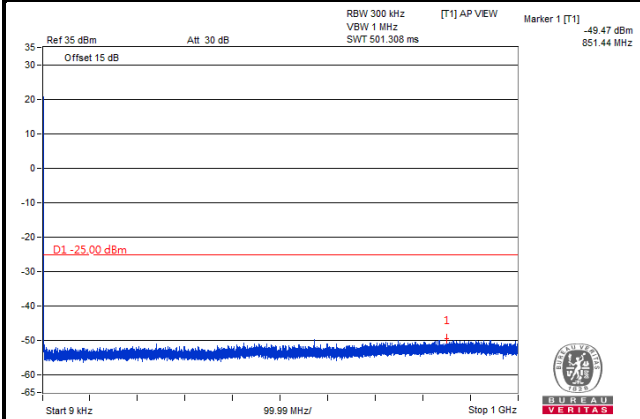
Note: The signal over the limit in 9 kHz is from spectrum analyzer.

LTE Band 41

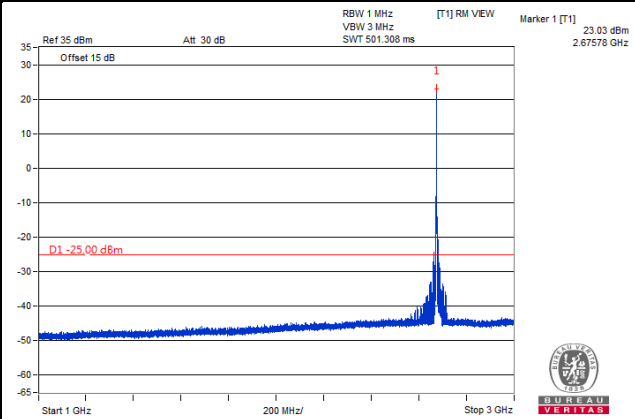
Channel Bandwidth: 15 MHz

Channel 41515

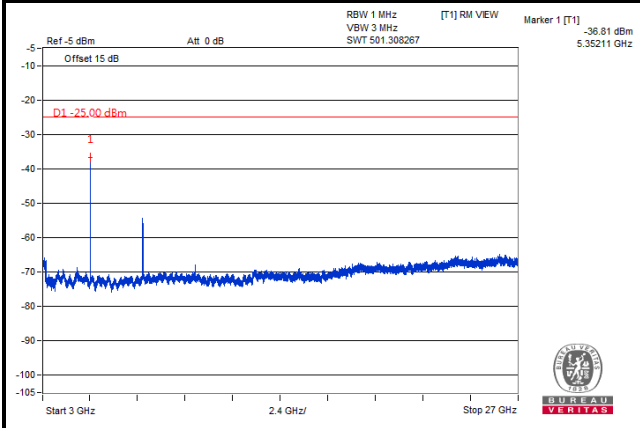
Frequency Range: 9 kHz ~ 1 GHz



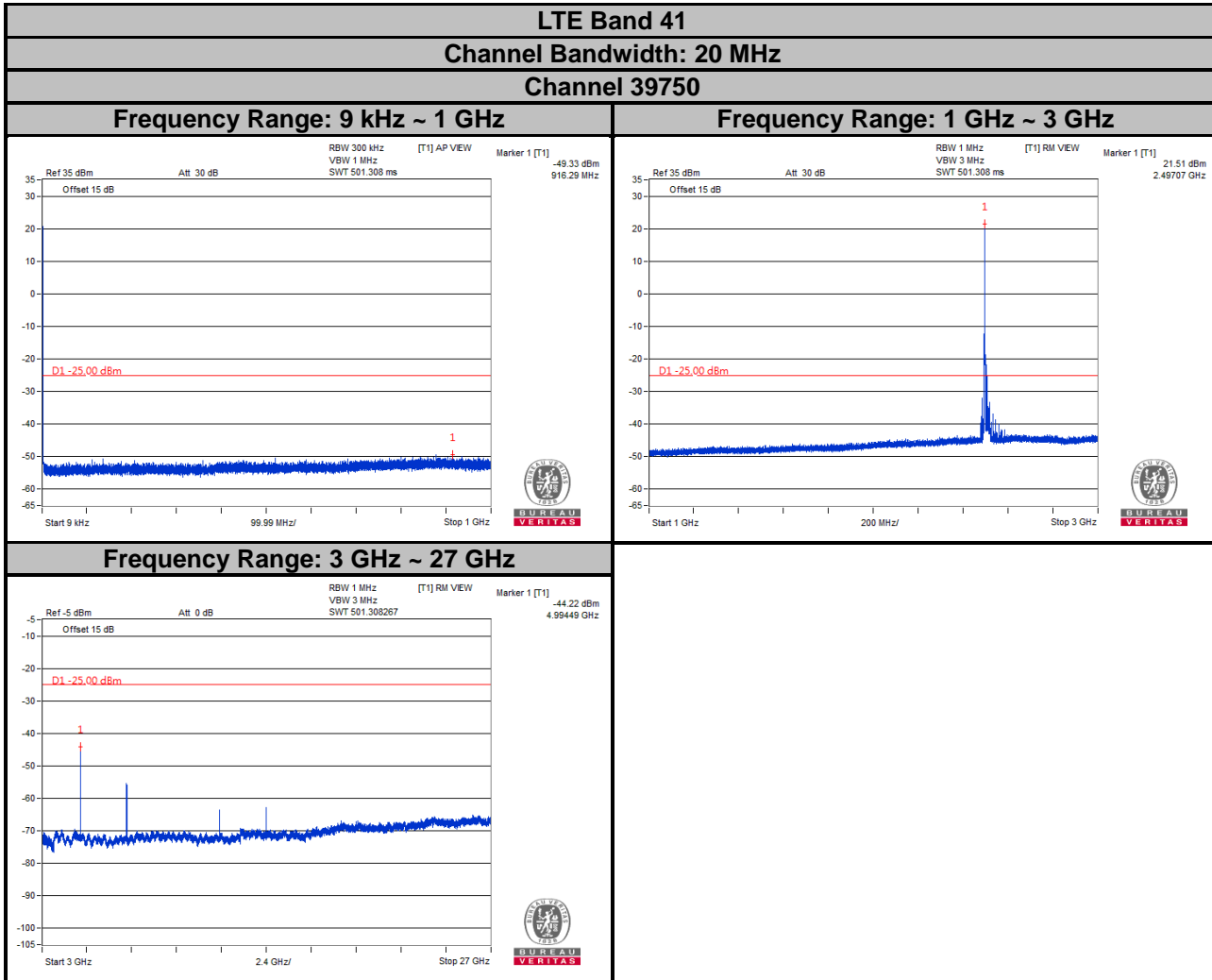
Frequency Range: 1 GHz ~ 3 GHz



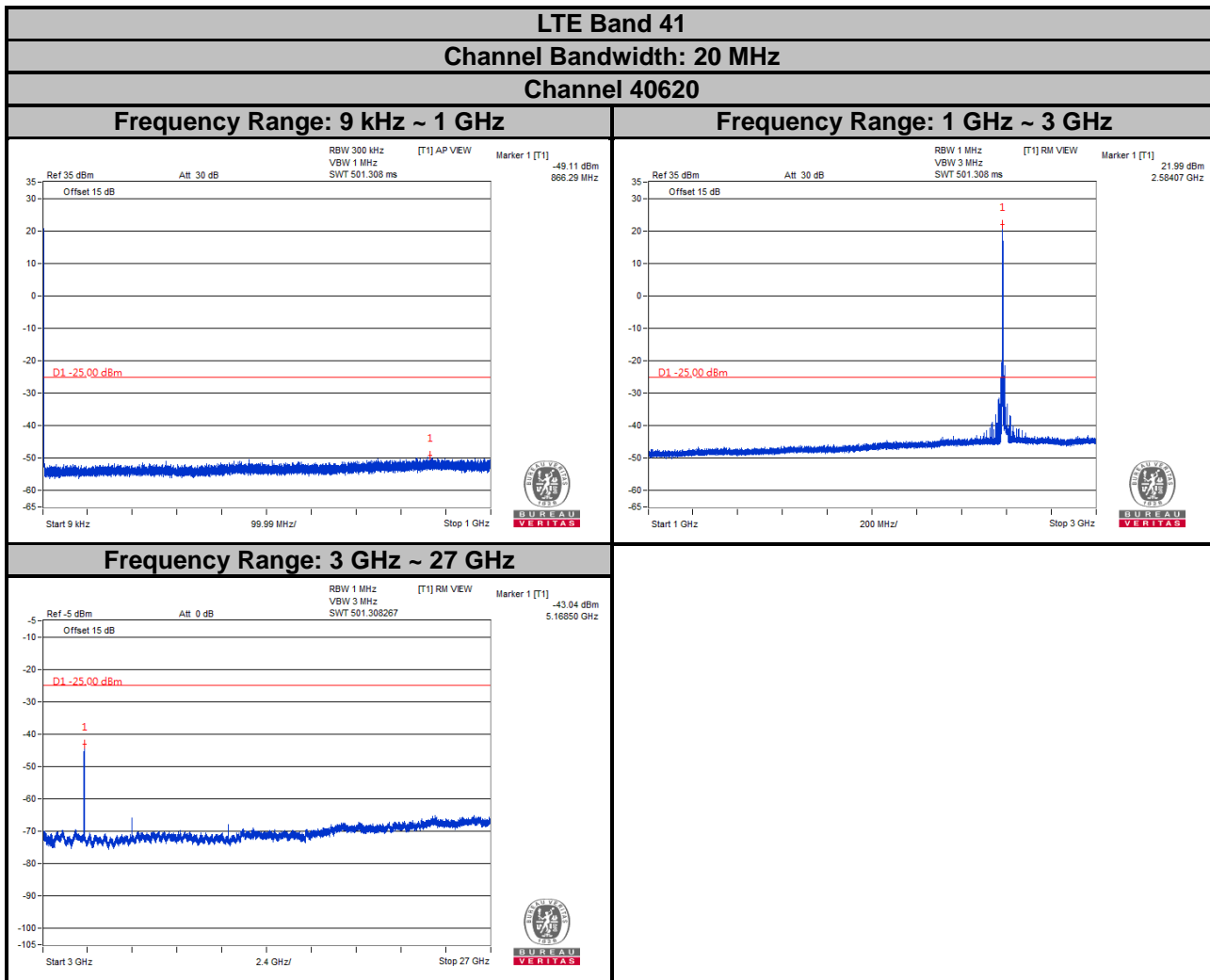
Frequency Range: 3 GHz ~ 27 GHz



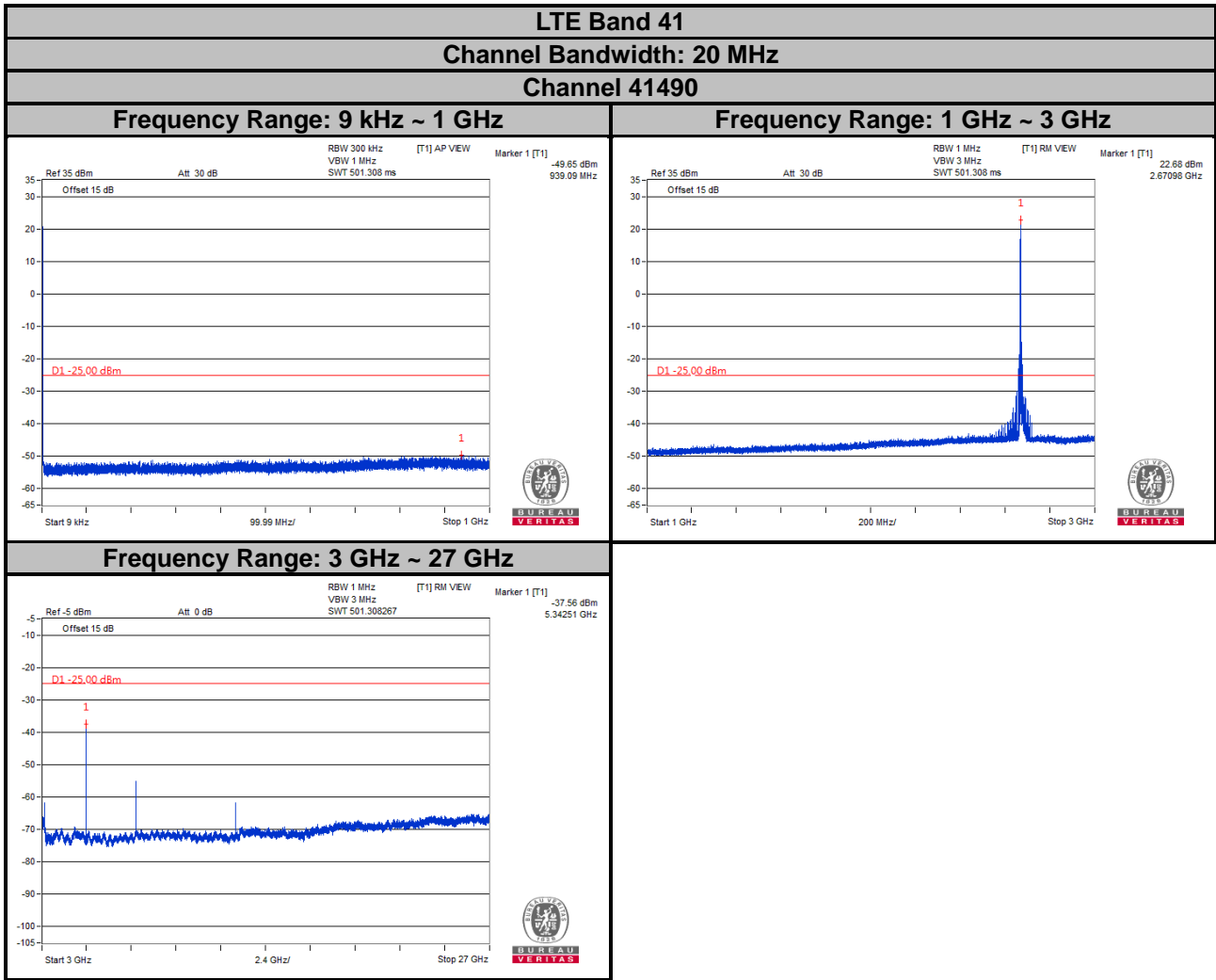
Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.



Note: The signal over the limit in 9 kHz is from spectrum analyzer.

4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $55 + 10 \log (P)$ dB. The limit of emission is equal to -25 dBm.

4.8.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.R.P \text{ power} - 2.15 \text{ dB}$.

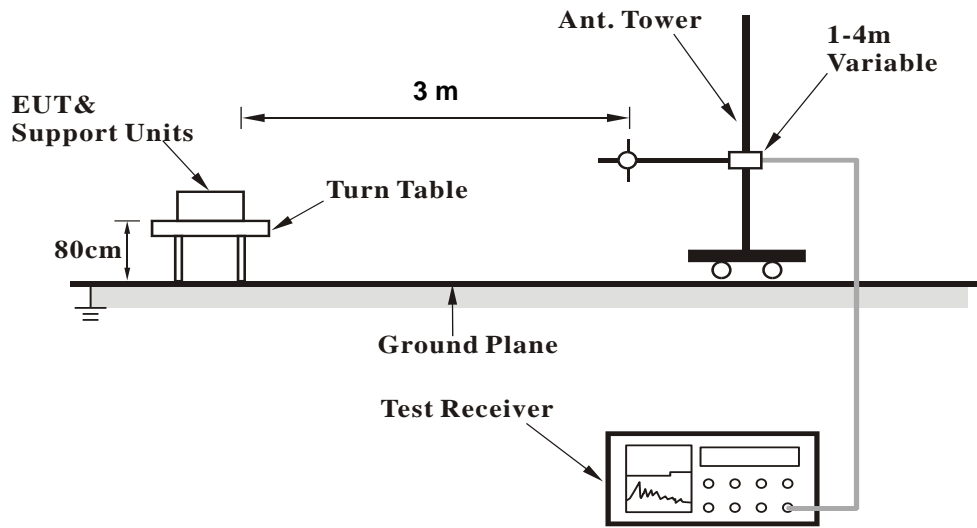
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.8.3 Deviation from Test Standard

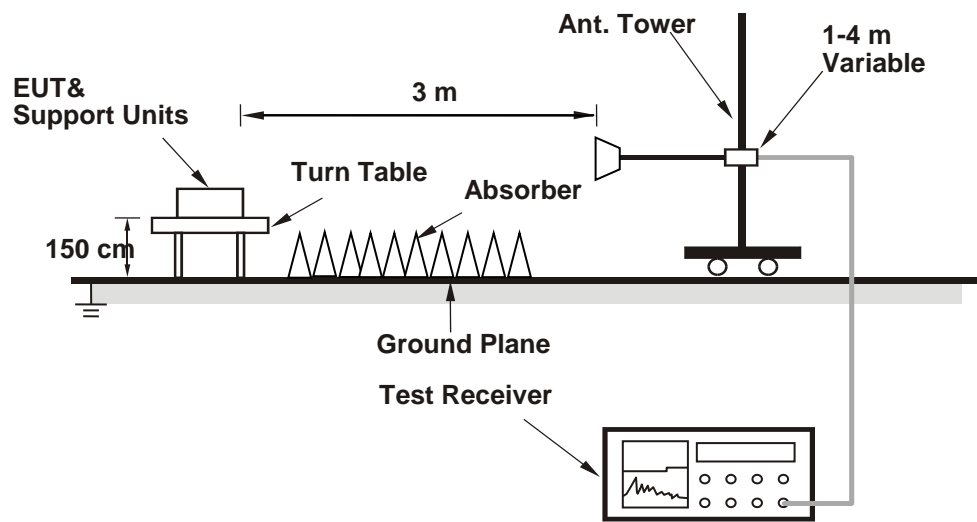
No deviation.

4.8.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.5 Test Results

LTE Band 7

Channel Bandwidth: 5 MHz / QPSK

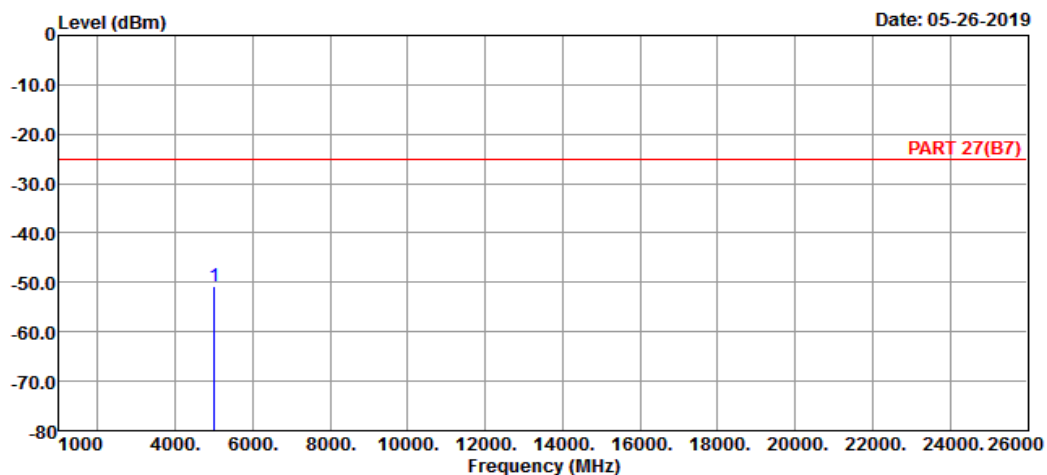
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
 Condition: PART 27(B7) HORIZONTAL
 Remark : LTE Band 7 QPSK_5M Link_L-CH
 Tested by: Getaz Yang

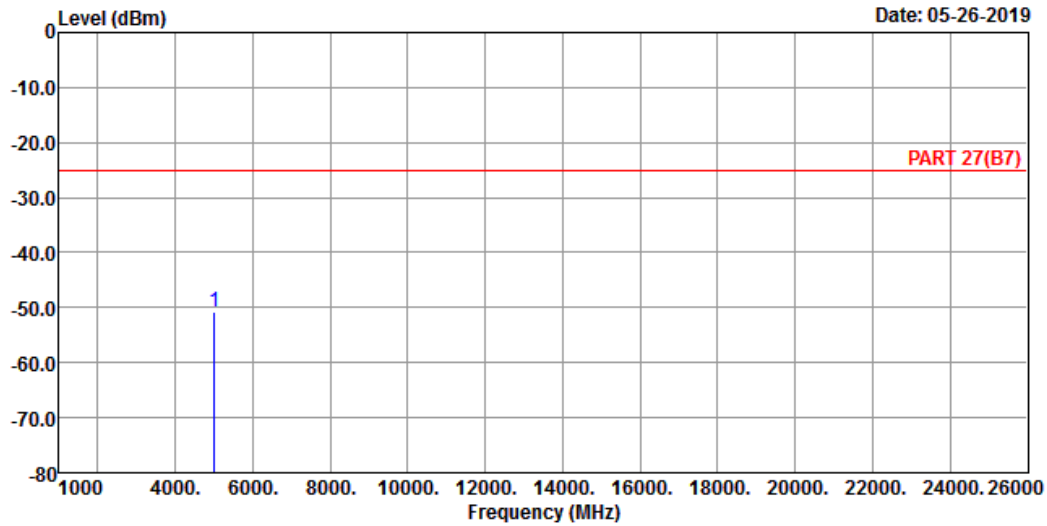
Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5005.00	-50.80	-48.34	-25.00	-2.46	-25.80	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 4



Date: 05-26-2019

Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remark : LTE Band 7 QPSK_5M Link_L-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5005.00	-50.90	-48.44	-25.00	-2.46	-25.90	Peak

Middle Channel

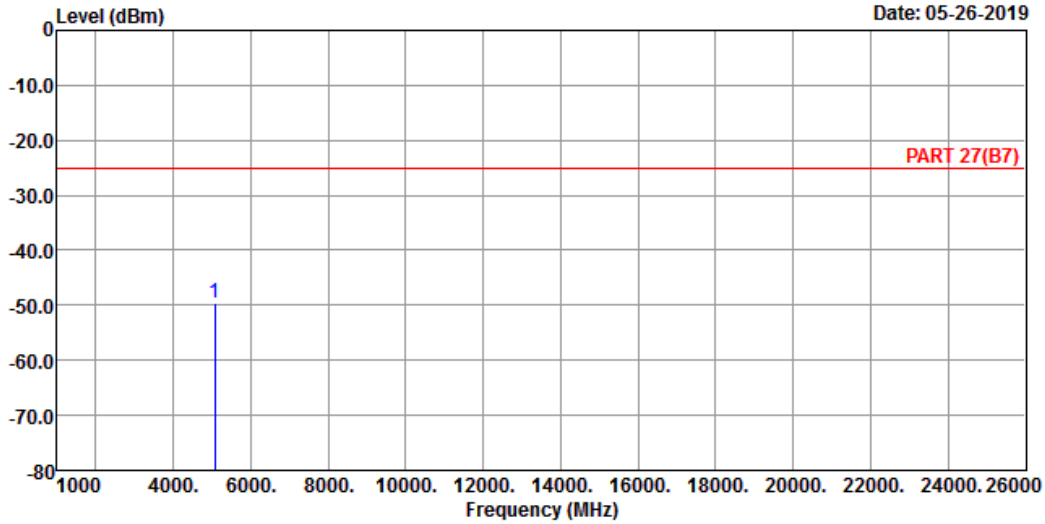


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) HORIZONTAL
 Remak : LTE Band 7 QPSK_5M Link_M-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5070.00 -49.48 -47.61 -25.00 -1.87 -24.48 Peak

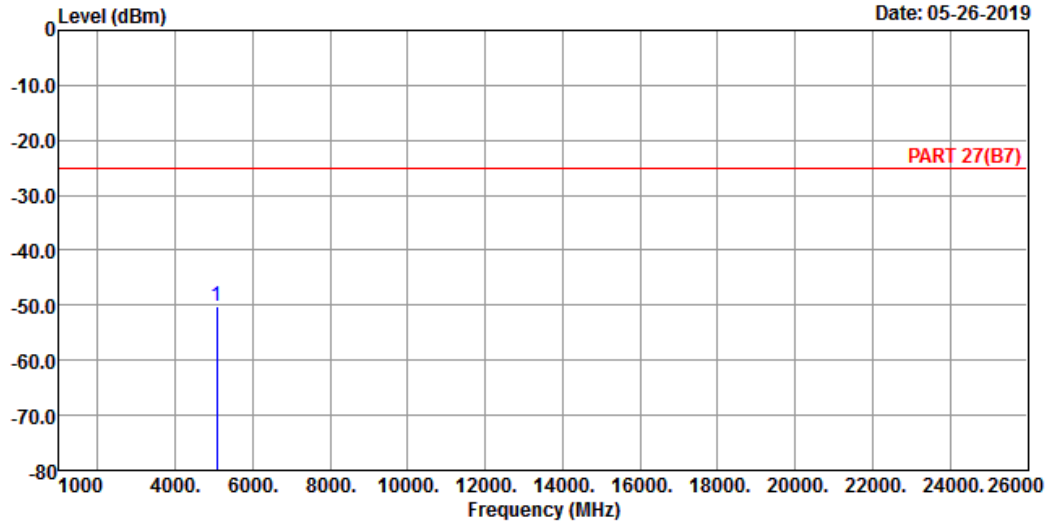


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remark : LTE Band 7 QPSK_5M Link_M-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5070.00	-50.14	-48.27	-25.00	-1.87	-25.14	Peak

High Channel

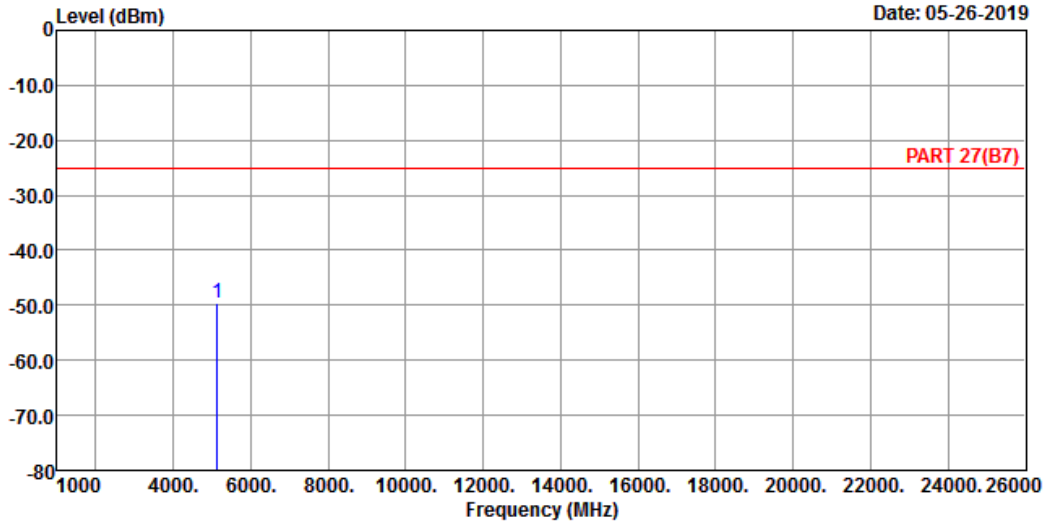


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) HORIZONTAL
 Remak : LTE Band 7 QPSK_5M Link_H-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5135.00 -49.55 -47.81 -25.00 -1.74 -24.55 Peak

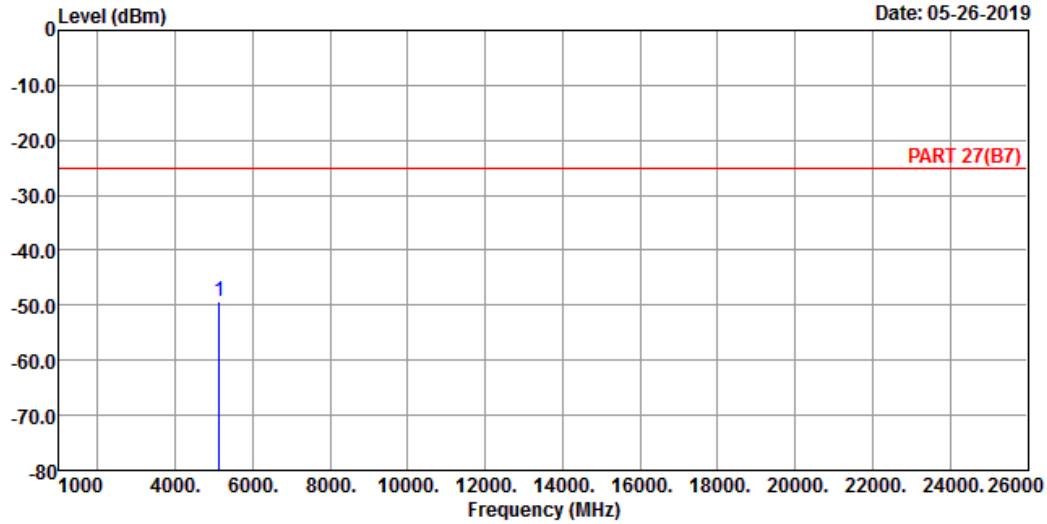


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remark : LTE Band 7 QPSK_5M Link_H-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5135.00	-49.19	-47.45	-25.00	-1.74	-24.19	Peak

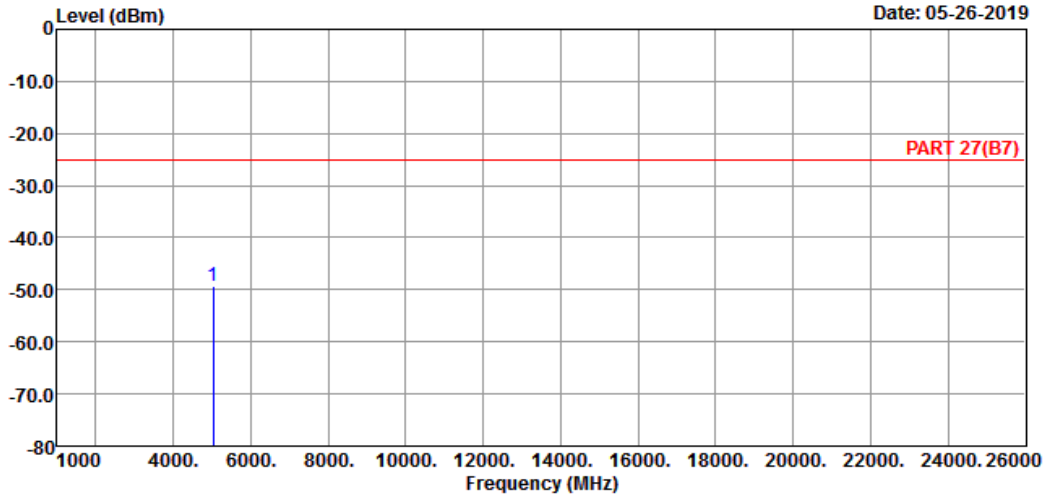
Channel Bandwidth: 20 MHz / QPSK
Low Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3



Site : 966 Chamber 5
Condition: PART 27(B7) HORIZONTAL
Remak : LTE Band 7 QPSK_20M Link_L-CH
Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	dB
1 pp 5020.00	-49.28	-46.96	-25.00	-2.32	-24.28 Peak

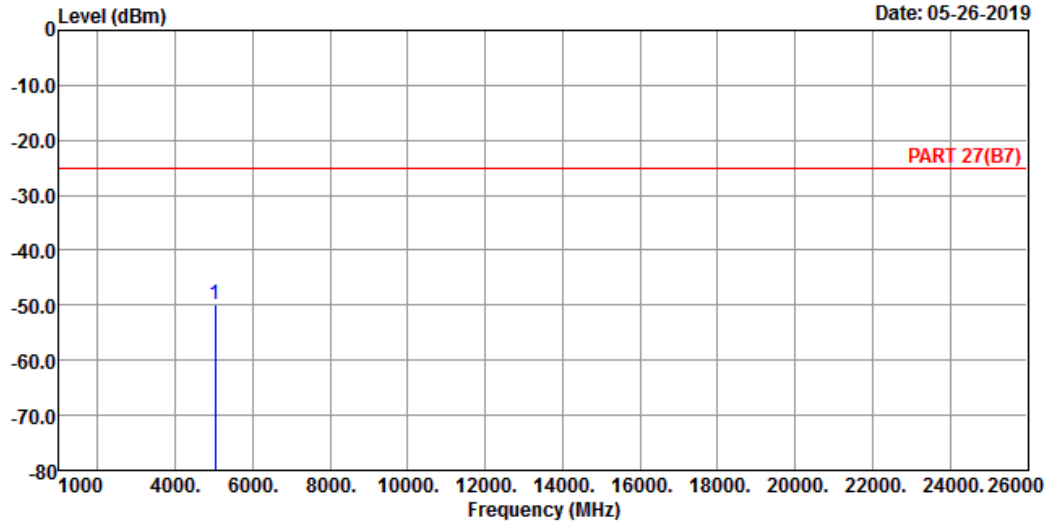


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remark : LTE Band 7 QPSK_20M Link_L-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5020.00	-49.76	-47.44	-25.00	-2.32	-24.76	Peak

Middle Channel

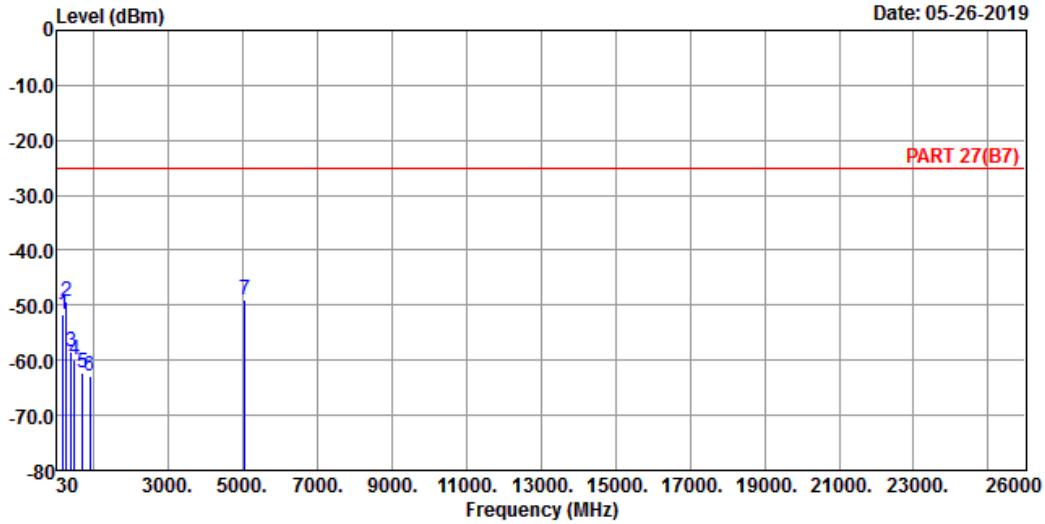


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) HORIZONTAL
 Remak : LTE Band 7 QPSK_20M Link_M-CH
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	199.75	-51.80	-43.78	-25.00	-8.02	-26.80	Peak
2	265.71	-49.33	-43.02	-25.00	-6.31	-24.33	Peak
3	398.60	-58.43	-52.48	-25.00	-5.95	-33.43	Peak
4	487.84	-59.81	-54.96	-25.00	-4.85	-34.81	Peak
5	712.88	-62.25	-62.40	-25.00	0.15	-37.25	Peak
6	913.67	-62.92	-63.83	-25.00	0.91	-37.92	Peak
7 pp	5070.00	-48.92	-47.05	-25.00	-1.87	-23.92	Peak

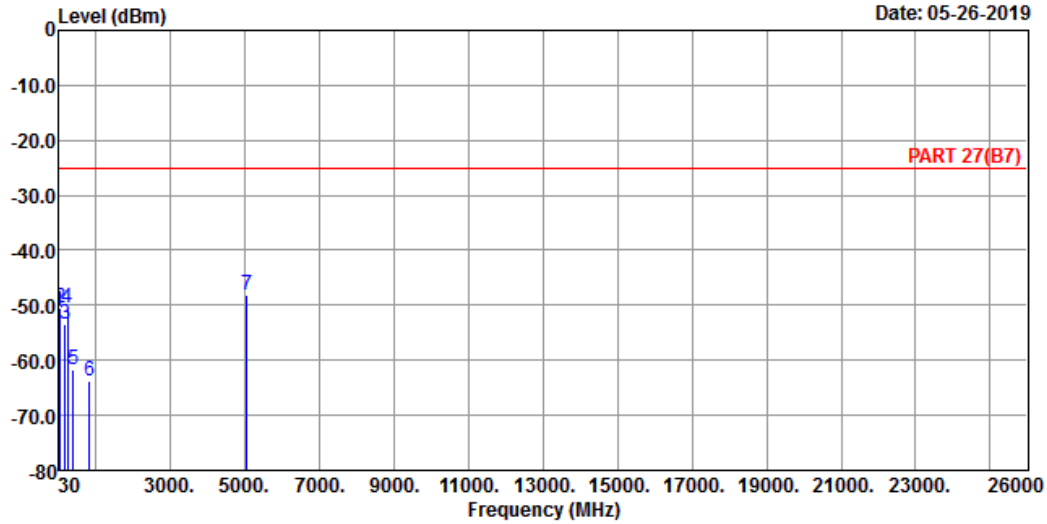


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remak : LTE Band 7 QPSK_20M Link_M-CH
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-51.11	-50.17	-25.00	-0.94	-26.11	Peak
2	68.80	-50.48	-42.16	-25.00	-8.32	-25.48	Peak
3	180.35	-53.52	-46.12	-25.00	-7.40	-28.52	Peak
4	256.01	-50.48	-44.37	-25.00	-6.11	-25.48	Peak
5	396.66	-61.79	-55.82	-25.00	-5.97	-36.79	Peak
6	846.74	-63.69	-64.01	-25.00	0.32	-38.69	Peak
7 pp	5070.00	-48.02	-46.15	-25.00	-1.87	-23.02	Peak

High Channel

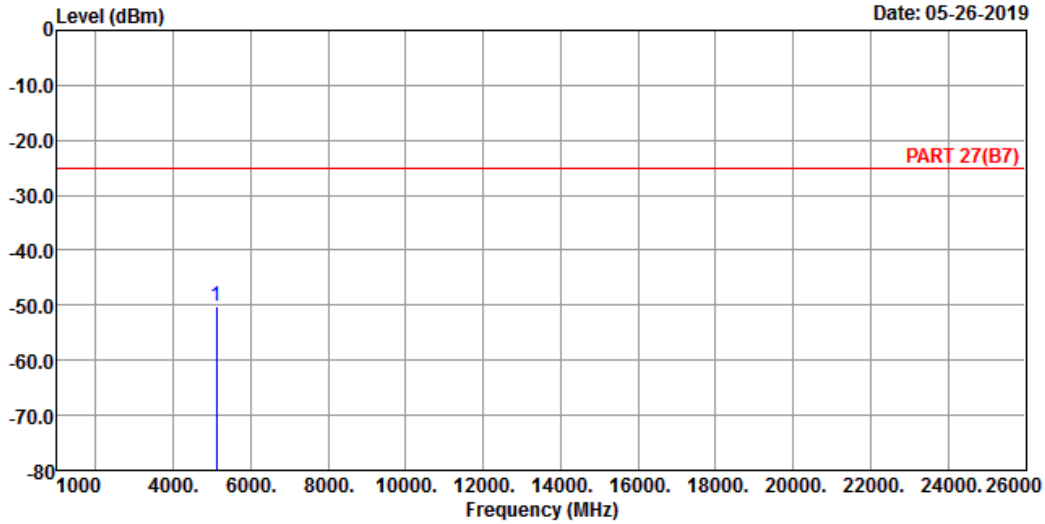


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A D T

Data: 3

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) HORIZONTAL
 Remak : LTE Band 7 QPSK_20M Link_H-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5120.00 -50.14 -48.48 -25.00 -1.66 -25.14 Peak

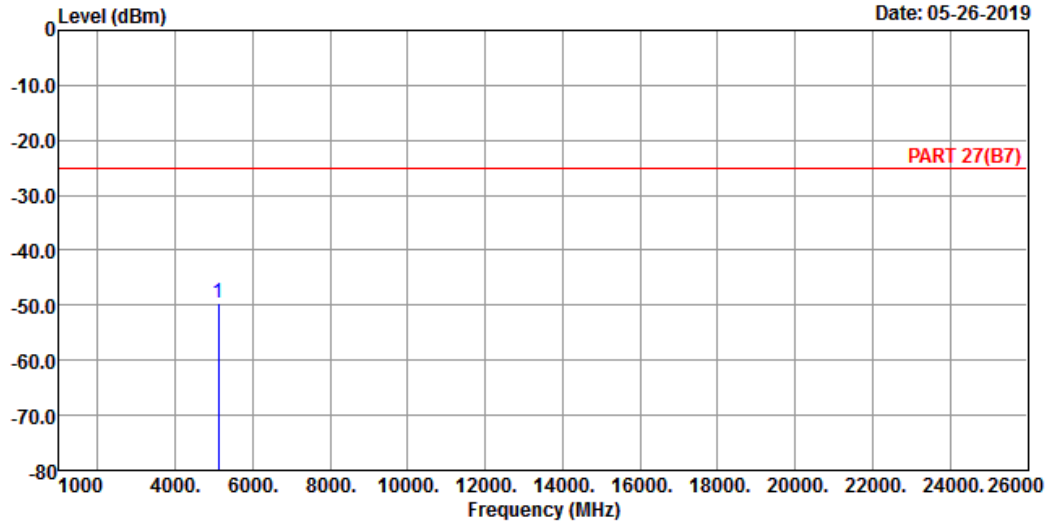


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 05-26-2019



Site : 966 Chamber 5
 Condition: PART 27(B7) VERTICAL
 Remak : LTE Band 7 QPSK_20M Link_H-CH
 Tested by: Getaz Yang

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5120.00	-49.54	-47.88	-25.00	-1.66	-24.54	Peak

LTE Band 38
 Channel Bandwidth: 5 MHz / QPSK
 Low Channel

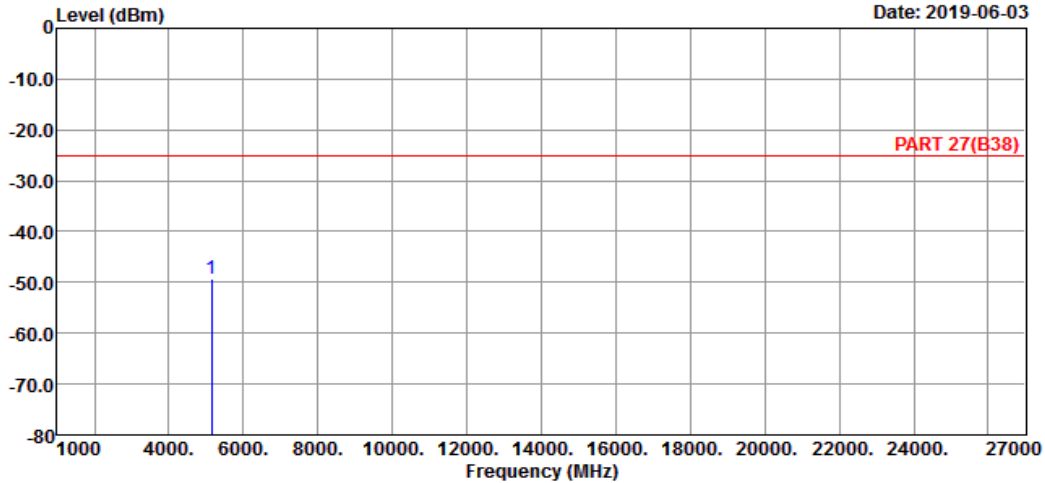


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) HORIZONTAL
 Remark : LTE Band 38 QPSK_5M Link_L-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5145.00	-49.34	-47.51	-25.00	-1.83	-24.34	Peak

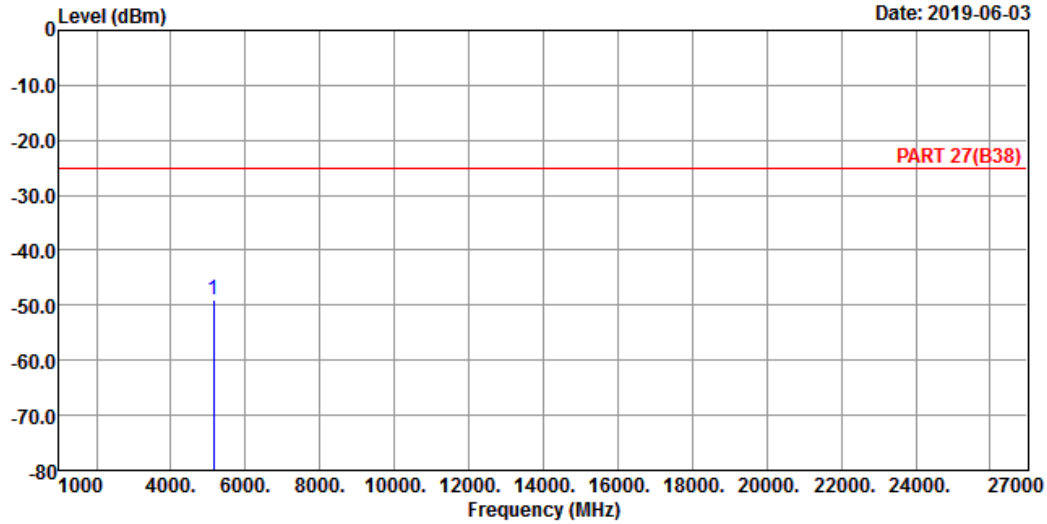


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_5M Link_L-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5145.00	-48.90	-47.07	-25.00	-1.83	-23.90	Peak

Middle Channel

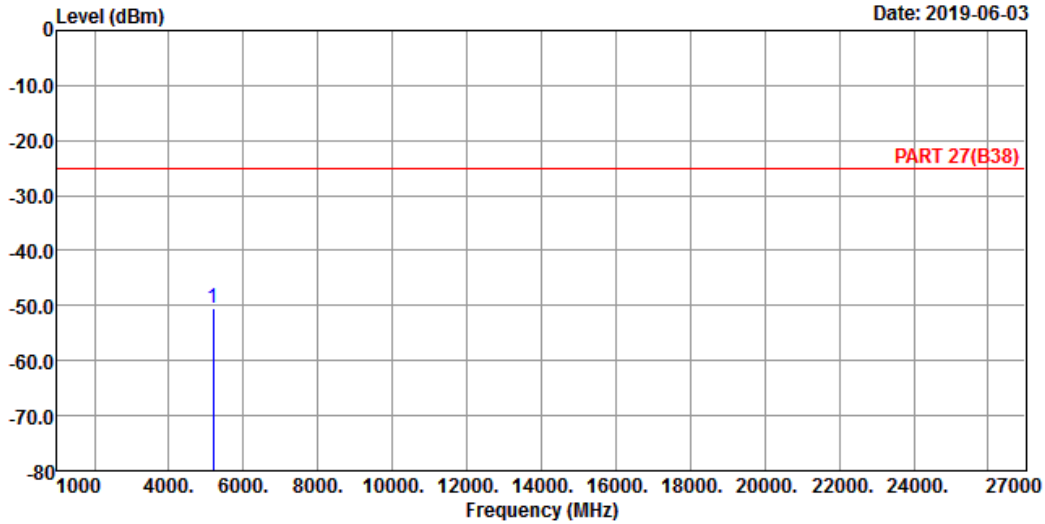


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) HORIZONTAL
 Remak : LTE Band 38 QPSK_5M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5190.00 -50.37 -48.30 -25.00 -2.07 -25.37 Peak

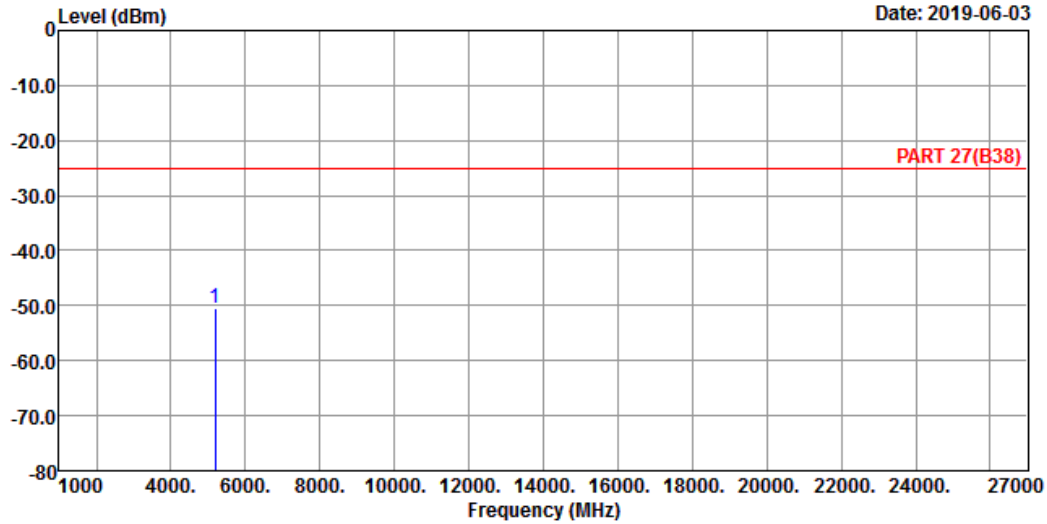


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_5M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5190.00	-50.35	-48.28	-25.00	-2.07	-25.35	Peak

High Channel

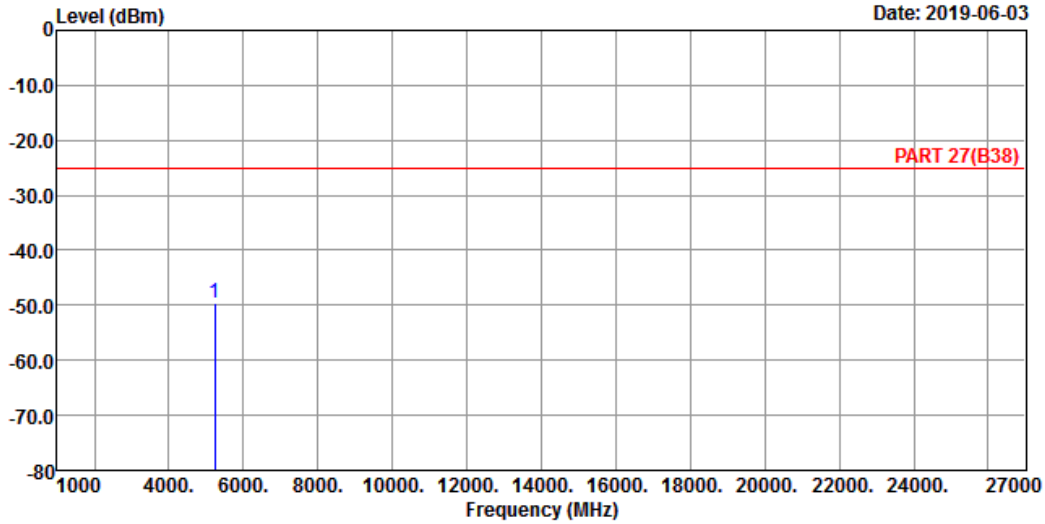


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) HORIZONTAL
 Remak : LTE Band 38 QPSK_5M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5235.00 -49.57 -47.16 -25.00 -2.41 -24.57 Peak

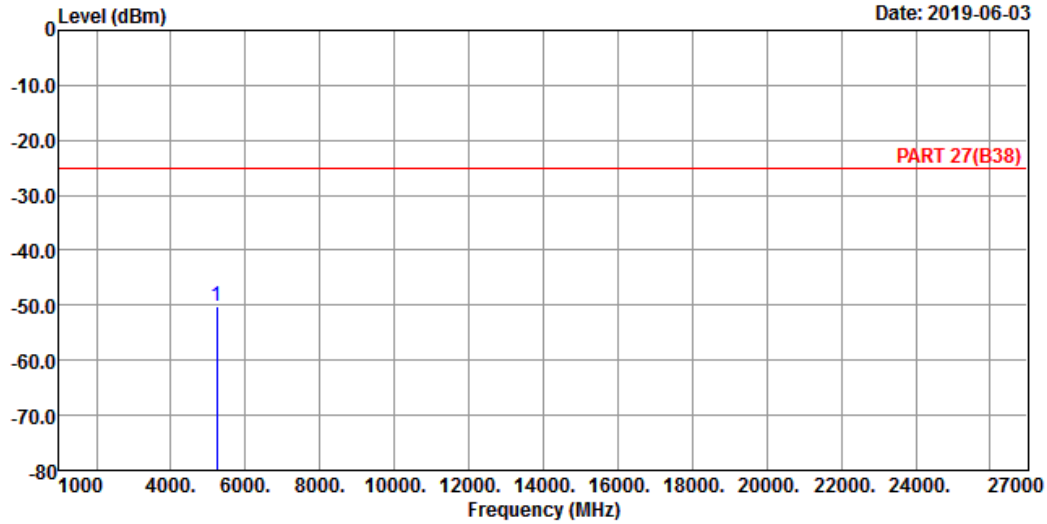


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_5M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5235.00	-50.31	-47.90	-25.00	-2.41	-25.31	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

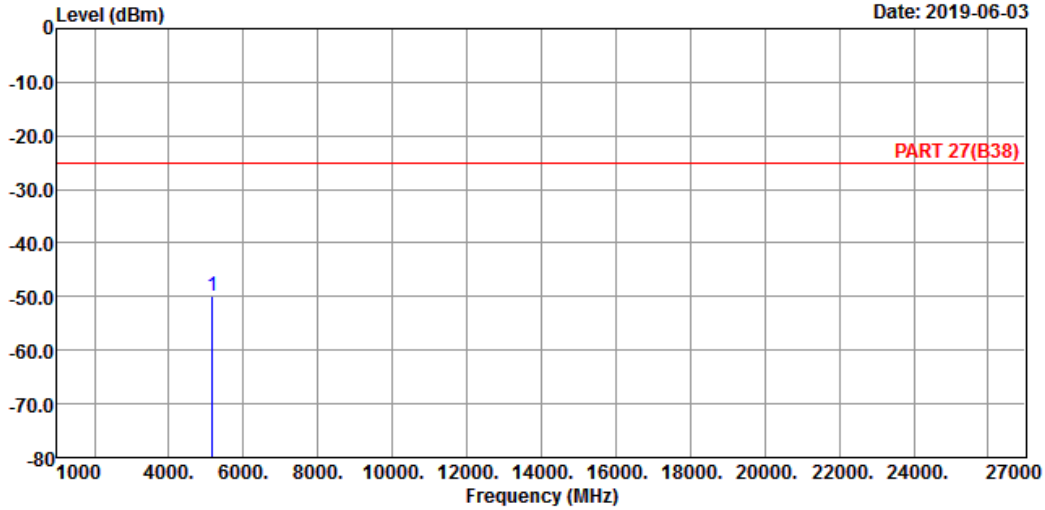


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

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Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
Condition: PART 27(B38) HORIZONTAL
Remak : LTE Band 38 QPSK_20M Link_L-CH
Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5160.00	-49.89	-47.98	-25.00	-1.91	-24.89	Peak

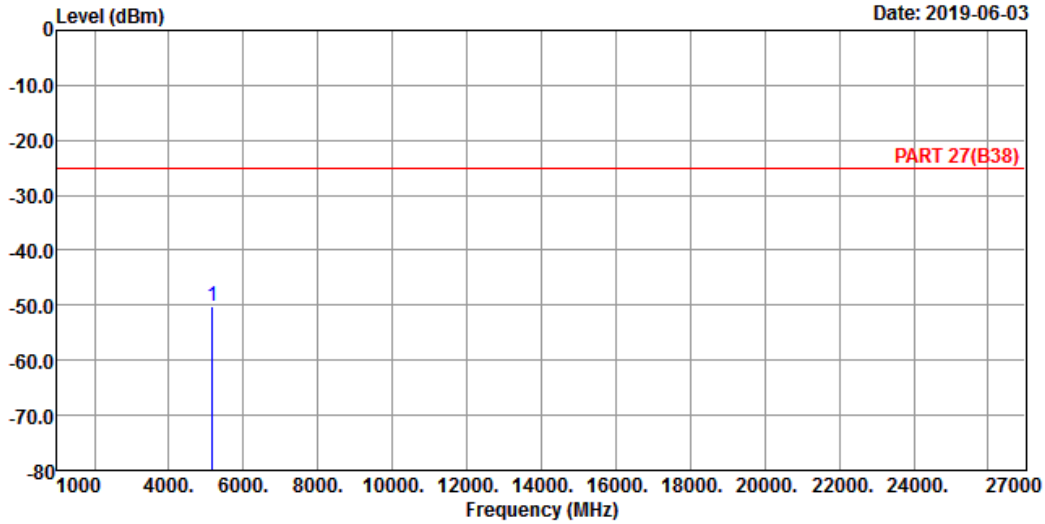


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_20M Link_L-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5160.00	-50.13	-48.22	-25.00	-1.91	-25.13	Peak

Middle Channel

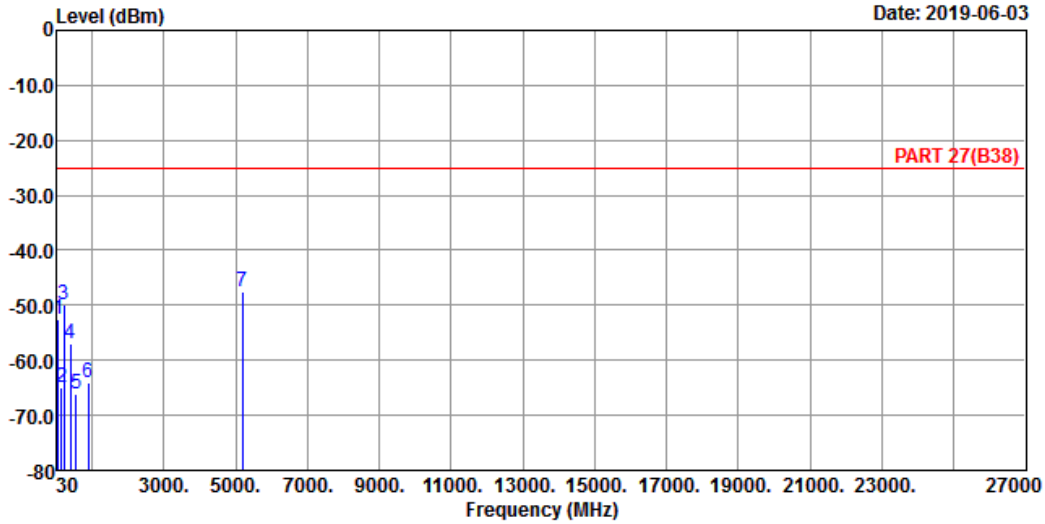


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) HORIZONTAL
 Remak : LTE Band 38 QPSK_20M Link_M-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit	Over	Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	53.28	-52.50	-46.69	-25.00	-5.81	-27.50	Peak
2	152.22	-64.98	-57.95	-25.00	-7.03	-39.98	Peak
3	213.33	-49.96	-42.49	-25.00	-7.47	-24.96	Peak
4	399.57	-57.05	-51.10	-25.00	-5.95	-32.05	Peak
5	546.04	-66.04	-63.05	-25.00	-2.99	-41.04	Peak
6	897.18	-63.99	-64.54	-25.00	0.55	-38.99	Peak
7 pp	5190.00	-47.46	-45.39	-25.00	-2.07	-22.46	Peak

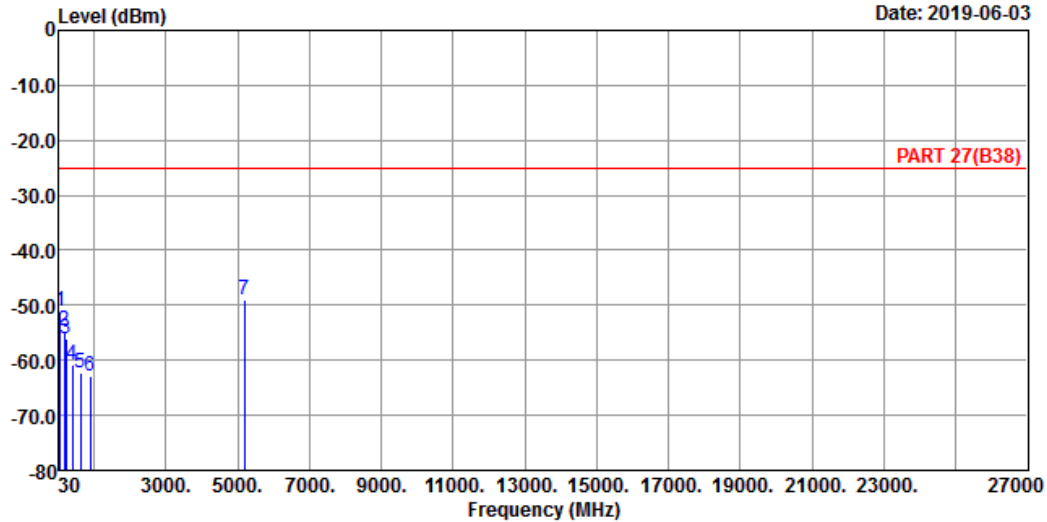


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_20M Link_M-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	68.80	-51.04	-42.72	-25.00	-8.32	-26.04	Peak
2	181.32	-54.74	-47.37	-25.00	-7.37	-29.74	Peak
3	217.21	-55.96	-48.64	-25.00	-7.32	-30.96	Peak
4	397.63	-60.84	-54.88	-25.00	-5.96	-35.84	Peak
5	628.49	-62.39	-61.56	-25.00	-0.83	-37.39	Peak
6	901.06	-62.94	-63.54	-25.00	0.60	-37.94	Peak
7 pp	5190.00	-48.97	-46.90	-25.00	-2.07	-23.97	Peak

High Channel

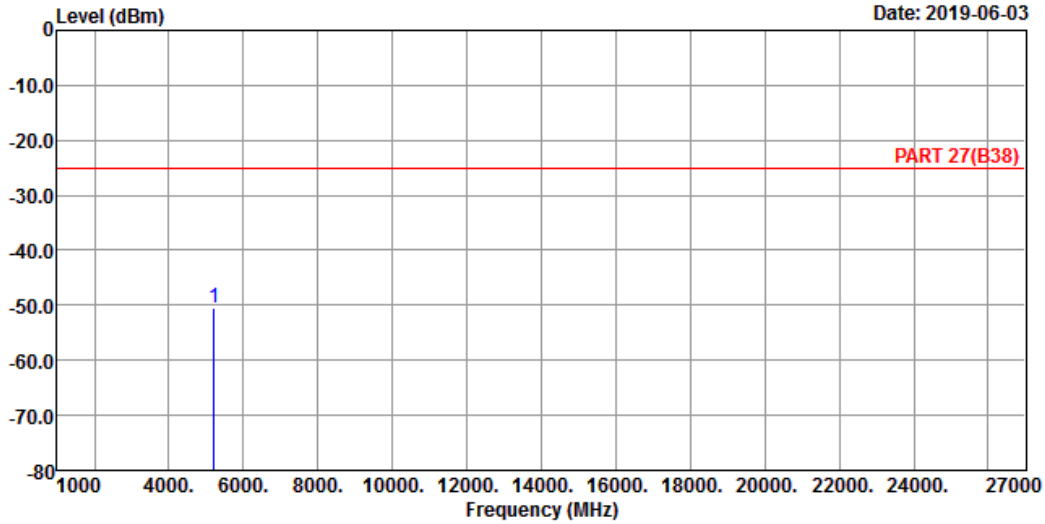


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) HORIZONTAL
 Remak : LTE Band 38 QPSK_20M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5220.00 -50.41 -48.11 -25.00 -2.30 -25.41 Peak

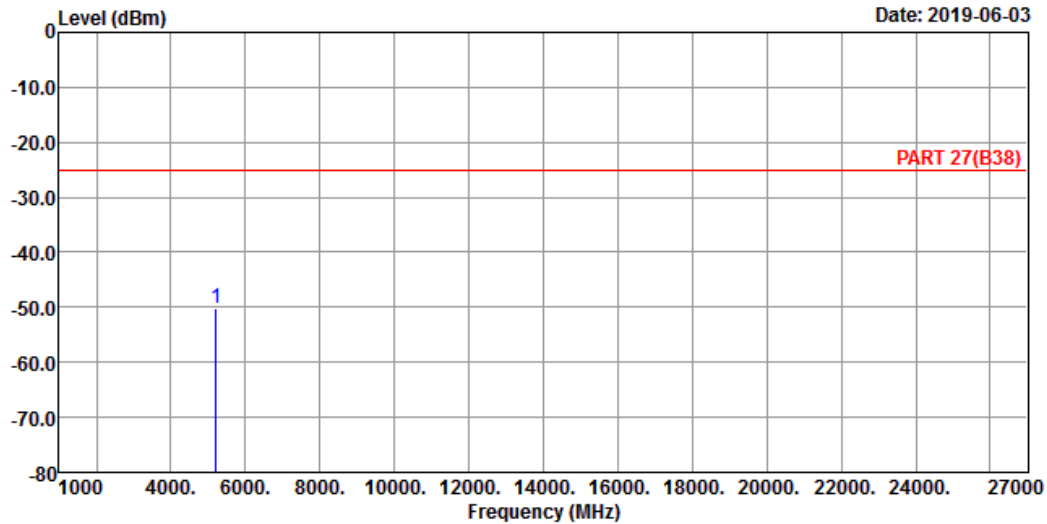


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B38) VERTICAL
 Remak : LTE Band 38 QPSK_20M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5220.00	-50.26	-47.96	-25.00	-2.30	-25.26	Peak

LTE Band 41
 Channel Bandwidth: 5 MHz / QPSK
 Low Channel

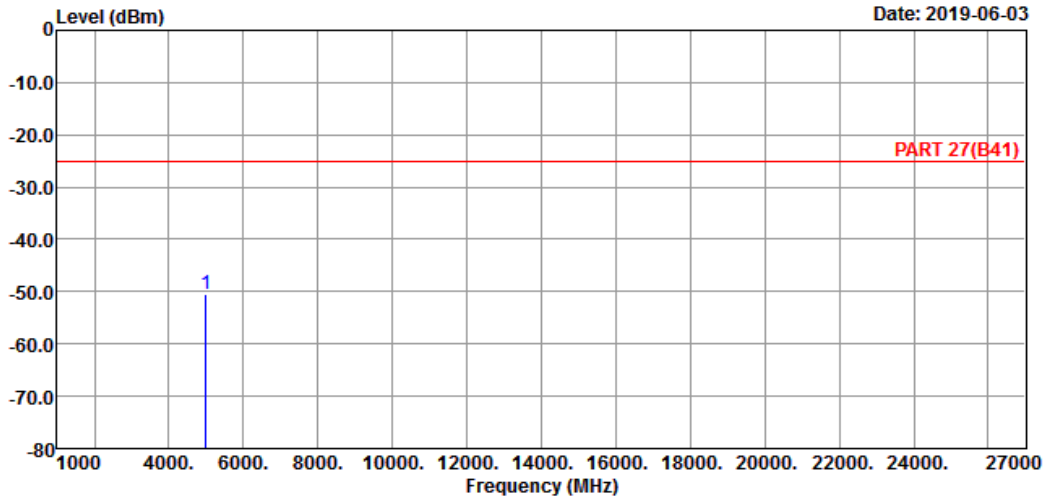


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) HORIZONTAL
 Remak : LTE Band 41 QPSK_5M Link_L-CH
 Tested by: tim-chen

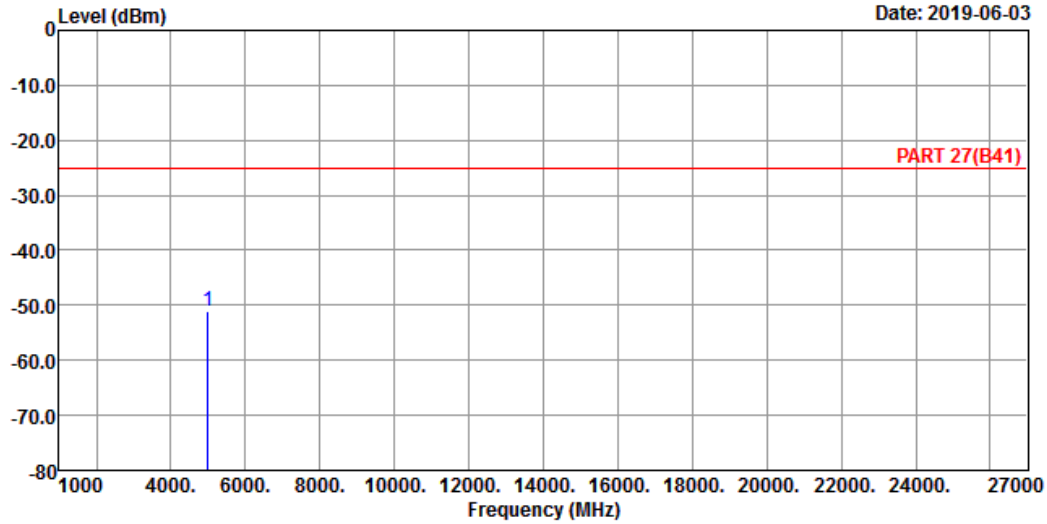
	Read	Limit	Over			
Freq	Level	Level	Line	Factor	Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4997.00	-50.61	-48.00	-25.00	-2.61	-25.61	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_5M Link_L-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 4997.00	-50.95	-48.34	-25.00	-2.61	-25.95	Peak

Middle Channel

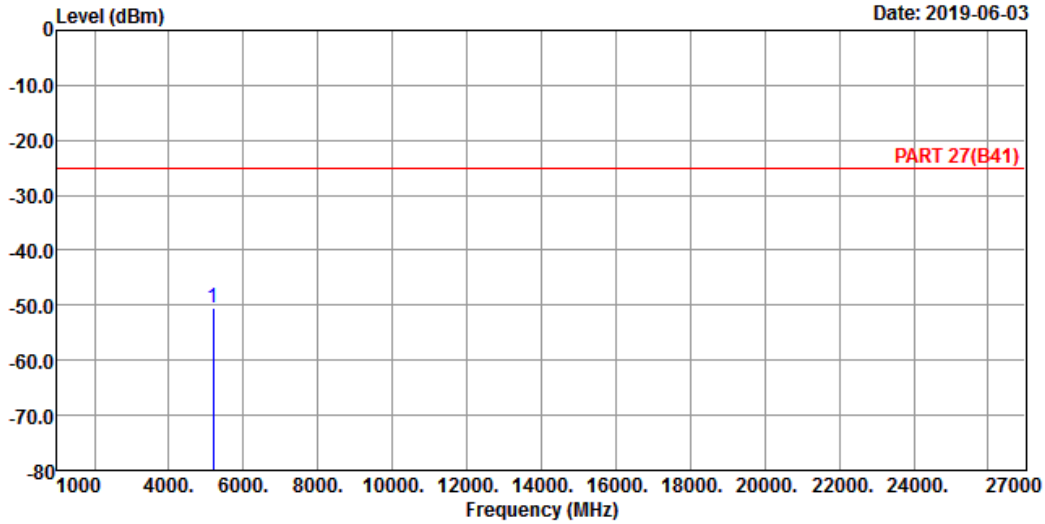


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) HORIZONTAL
 Remak : LTE Band 41 QPSK_5M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5186.00 -50.57 -48.58 -25.00 -1.99 -25.57 Peak

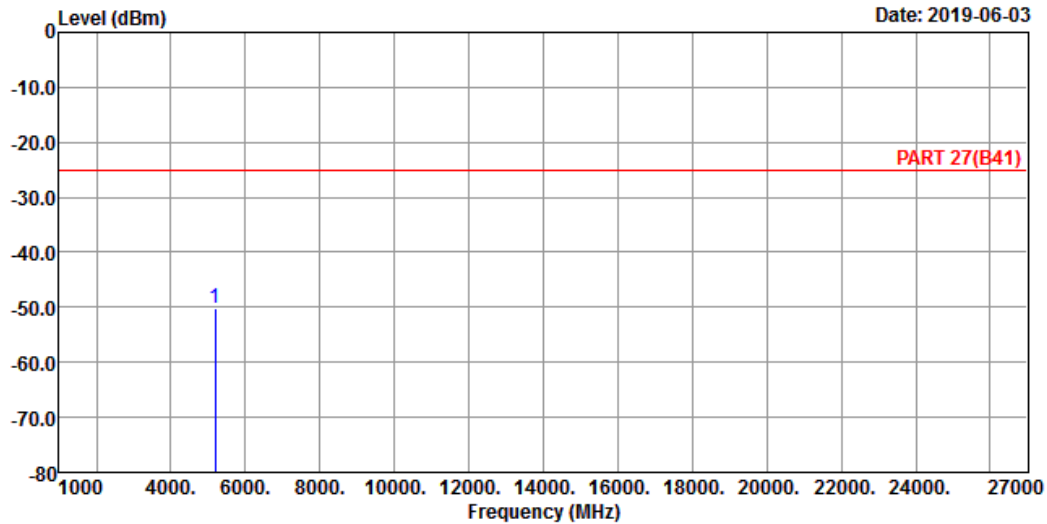


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_5M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5186.00	-50.25	-48.26	-25.00	-1.99	-25.25	Peak

High Channel

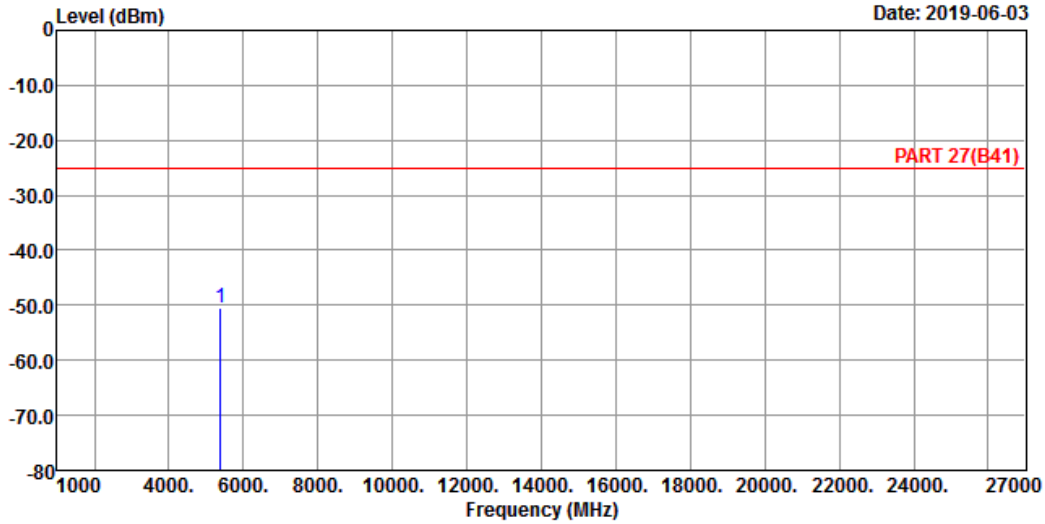


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) HORIZONTAL
 Remak : LTE Band 41 QPSK_5M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5375.00 -50.56 -48.16 -25.00 -2.40 -25.56 Peak

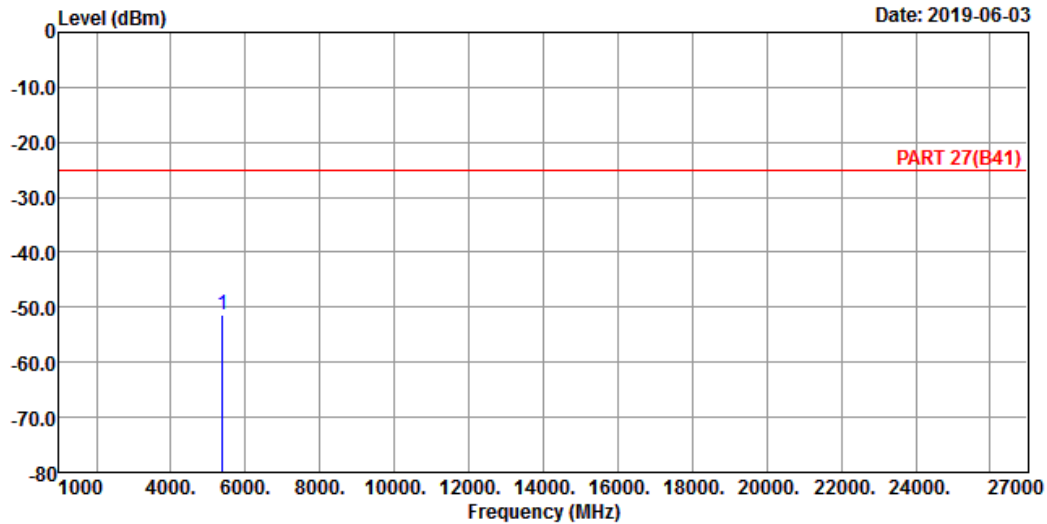


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_5M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5375.00	-51.26	-48.86	-25.00	-2.40	-26.26	Peak

Channel Bandwidth: 20 MHz / QPSK
Low Channel

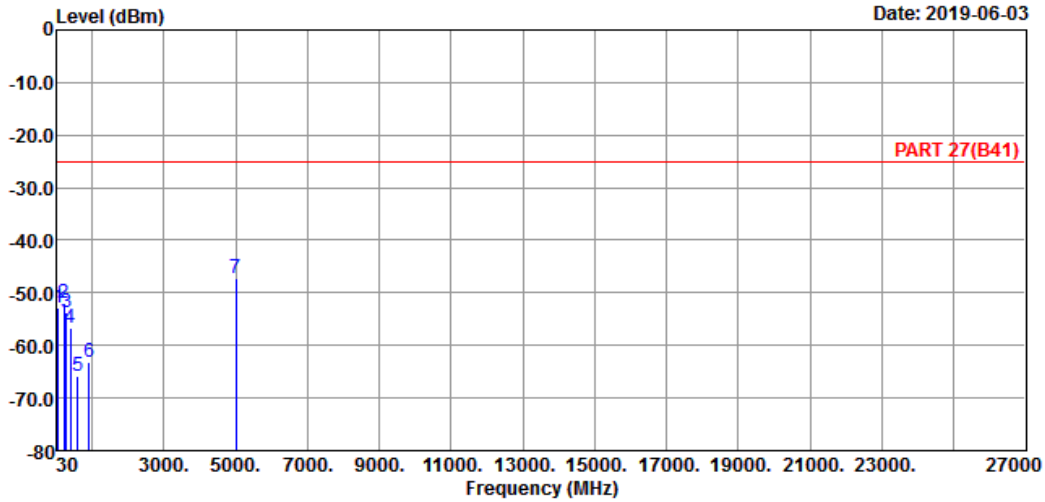


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 5

Date: 2019-06-03



Site : 966 Chamber 5
Condition: PART 27(B41) HORIZONTAL
Remak : LTE Band 41 QPSK_20M Link_L-CH
Tested by: tim-chen

	Freq	Level	Read Level	Limit	Over	Over	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	53.28	-52.71	-46.90	-25.00	-5.81	-27.71	Peak
2	206.54	-52.02	-44.27	-25.00	-7.75	-27.02	Peak
3	285.11	-53.83	-47.12	-25.00	-6.71	-28.83	Peak
4	396.66	-56.70	-50.73	-25.00	-5.97	-31.70	Peak
5	592.60	-65.83	-64.75	-25.00	-1.08	-40.83	Peak
6	926.28	-63.04	-64.26	-25.00	1.22	-38.04	Peak
7 pp	5012.00	-47.09	-44.63	-25.00	-2.46	-22.09	Peak

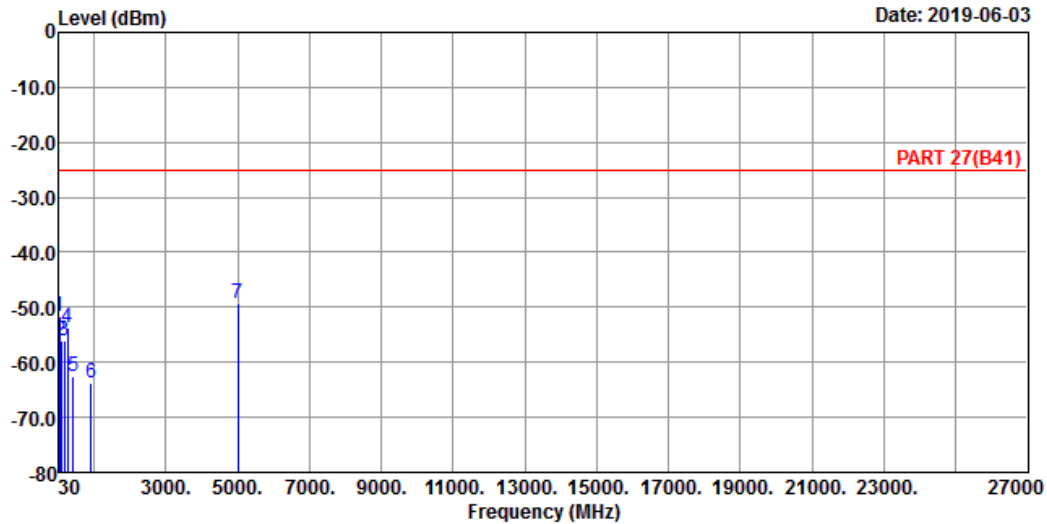


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 6

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_20M Link_L-CH
 Tested by: tim-chen

	Freq	Level	Read Level	Limit Line	Over Factor	Over Limit	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	44.55	-51.70	-49.71	-25.00	-1.99	-26.70	Peak
2	75.59	-56.12	-46.37	-25.00	-9.75	-31.12	Peak
3	182.29	-56.18	-48.84	-25.00	-7.34	-31.18	Peak
4	265.71	-53.80	-47.49	-25.00	-6.31	-28.80	Peak
5	416.06	-62.73	-56.91	-25.00	-5.82	-37.73	Peak
6	920.46	-63.79	-64.87	-25.00	1.08	-38.79	Peak
7 pp	5012.00	-49.42	-46.96	-25.00	-2.46	-24.42	Peak

Middle Channel

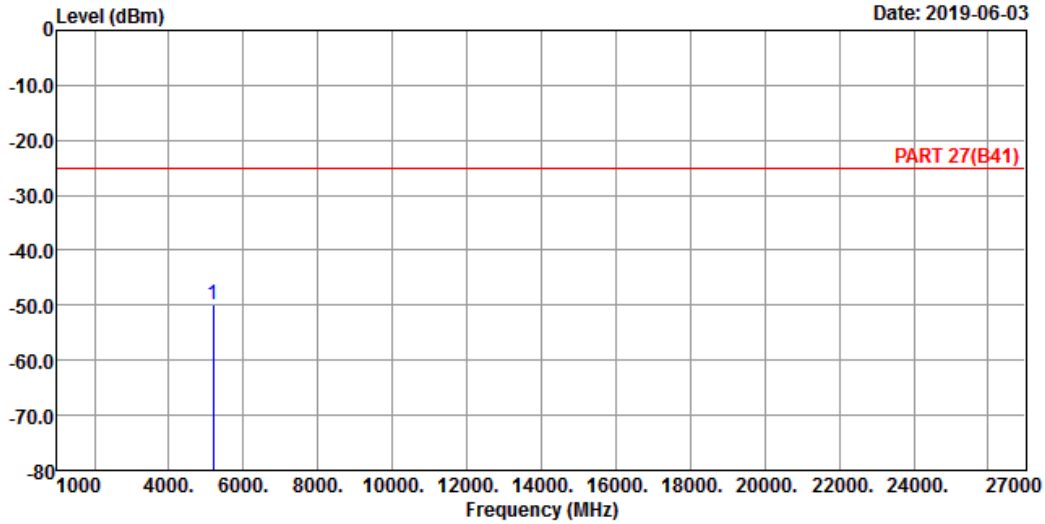


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) HORIZONTAL
 Remak : LTE Band 41 QPSK_20M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

1 pp 5186.00 -49.88 -47.89 -25.00 -1.99 -24.88 Peak

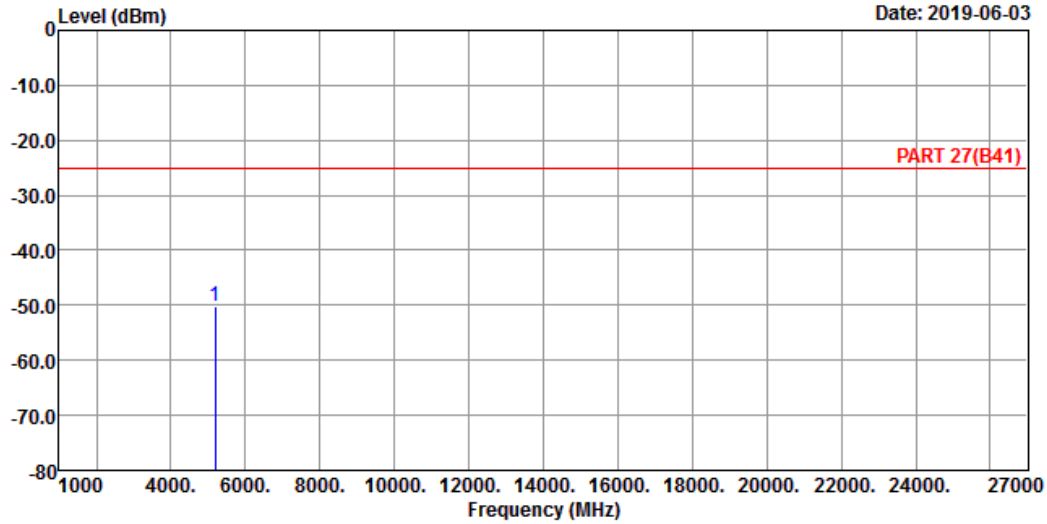


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_20M Link_M-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	
1 pp 5186.00	-50.13	-48.14	-25.00	-1.99	-25.13	Peak

High Channel

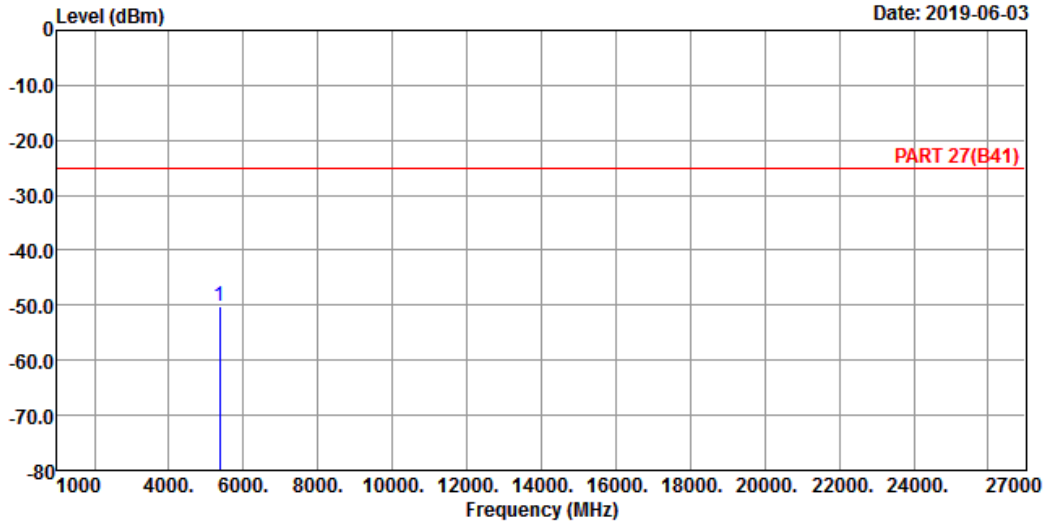


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 3

Date: 2019-06-03



Site : 966 Chamber 5
 Condition: PART 27(B41) HORIZONTAL
 Remak : LTE Band 41 QPSK_20M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Line Factor	Over Limit	Remark
MHz	dBm	dBm	dBm	dB	dB	

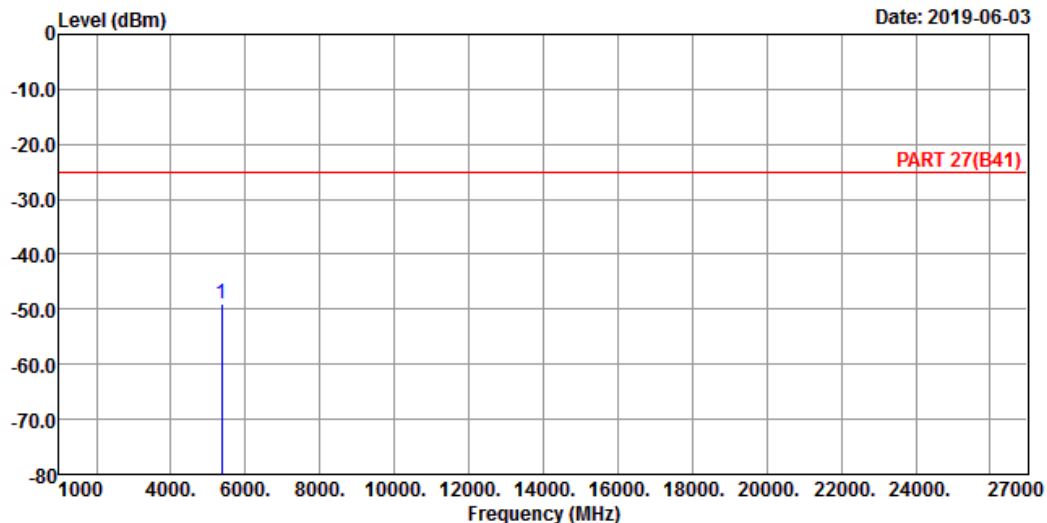
1 pp 5360.00 -50.23 -47.72 -25.00 -2.51 -25.23 Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 4



Site : 966 Chamber 5
 Condition: PART 27(B41) VERTICAL
 Remak : LTE Band 41 QPSK_20M Link_H-CH
 Tested by: tim-chen

Freq	Level	Read Level	Limit	Over	Remark
MHz	dBm	dBm	dBm	dB	
1 pp 5360.00	-49.04	-46.53	-25.00	-2.51	-24.04 Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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