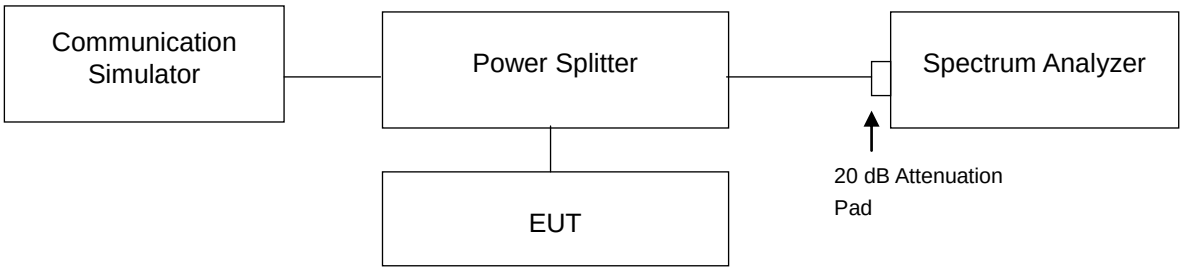
4.6 Conducted Spurious Emissions

4.6.1 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 43 +10 log10(P) dB. The limit of emission is equal to -13 dBm.

4.6.2 Test Setup



4.6.3 Test Procedure

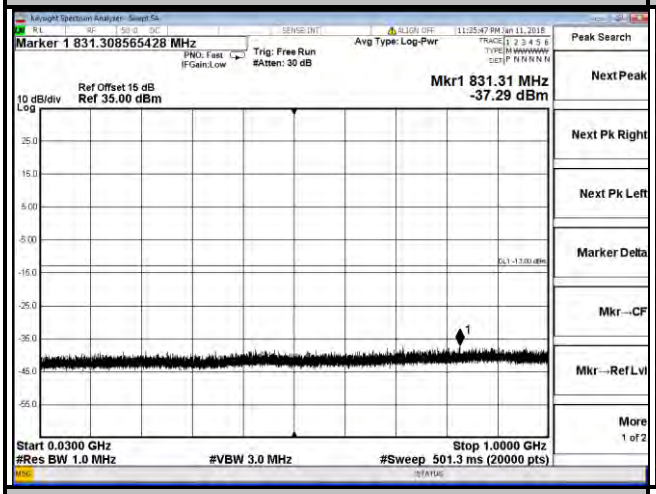
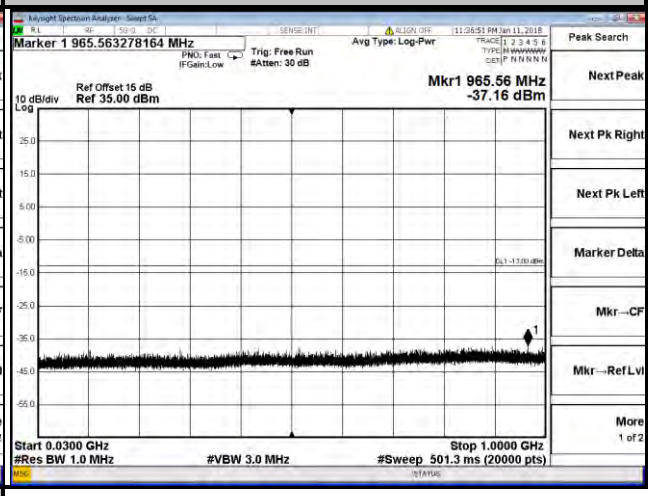
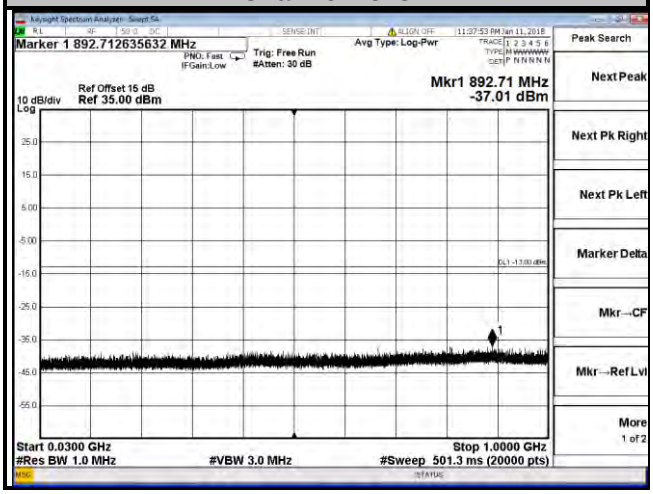
a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 30 MHz to 8 GHz for LTE Band 17 and from 30 MHz to 18 GHz for LTE Band 4. 10 dB attenuation pad is connected with spectrum. RBW = 100 kHz and VBW = 300 kHz are used for conducted emission measurement.

4.6.4 Test Results

WCDMA

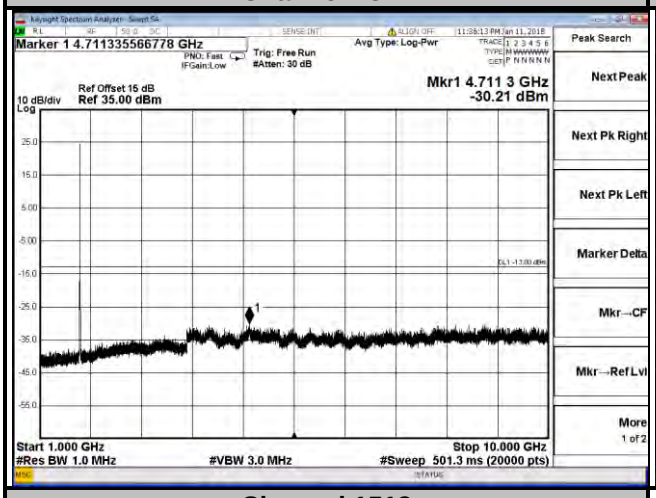
30MHz ~ 1GHz

WCDMA	
Channel 1312	**Channel 1413**
	
Channel 1513	
	

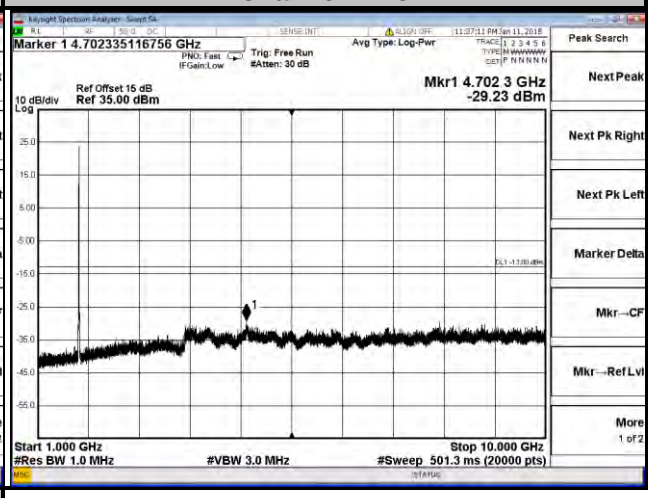
1GHz ~ 10GHz

WCDMA

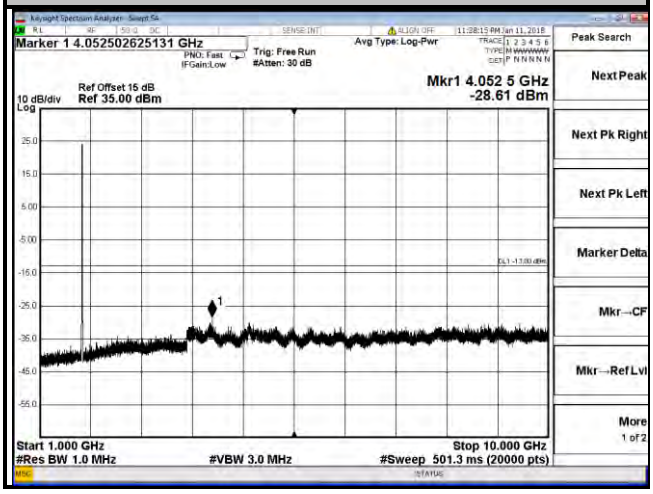
Channel 1312



Channel 1413



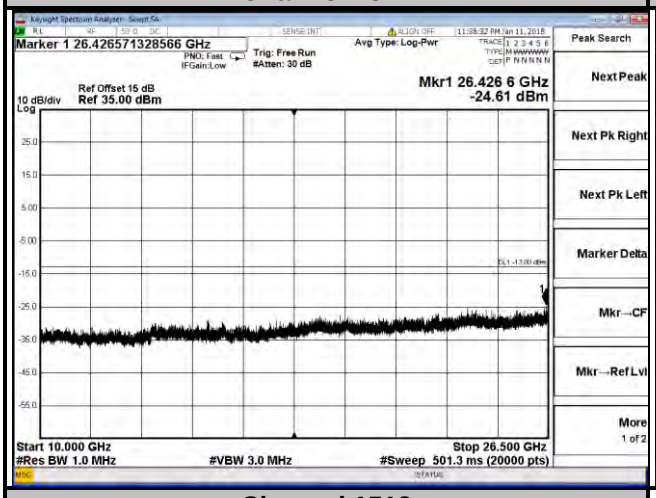
Channel 1513



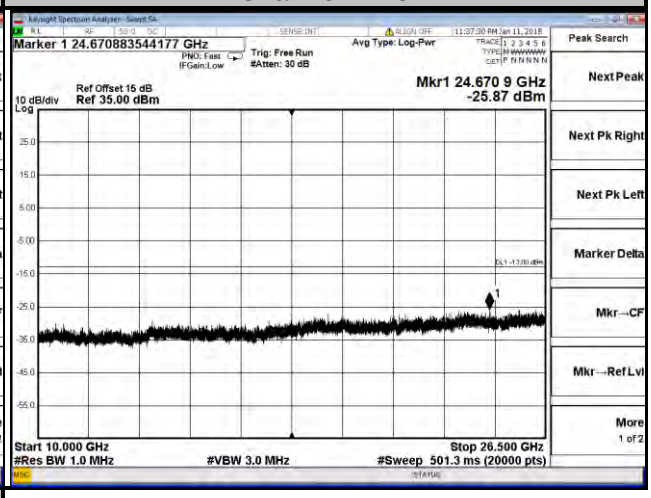
10GHz ~ 26.5GHz

WCDMA

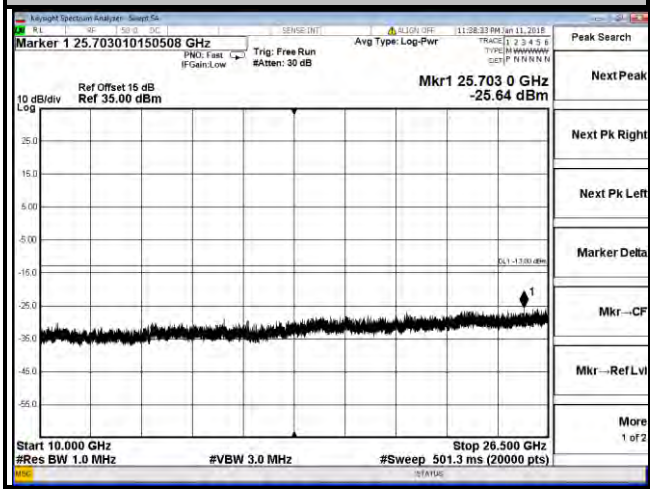
Channel 1312



Channel 1413



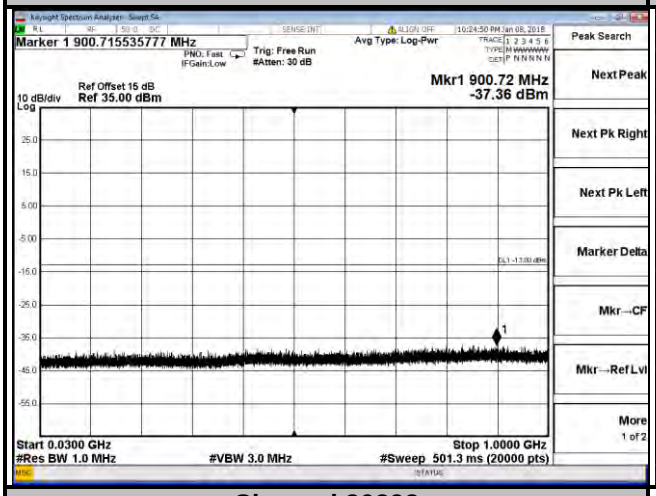
Channel 1513

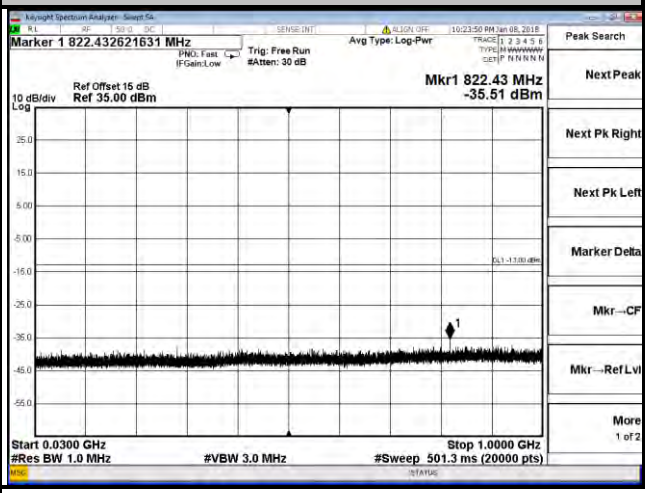


LTE Band 4

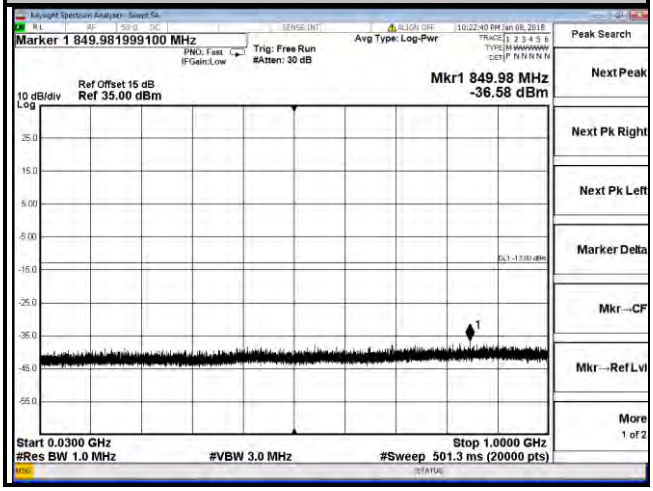
30MHz ~ 1GHz

LTE Band 4	
Channel Bandwidth: 1.4 MHz	
Channel 19957	Channel 20175

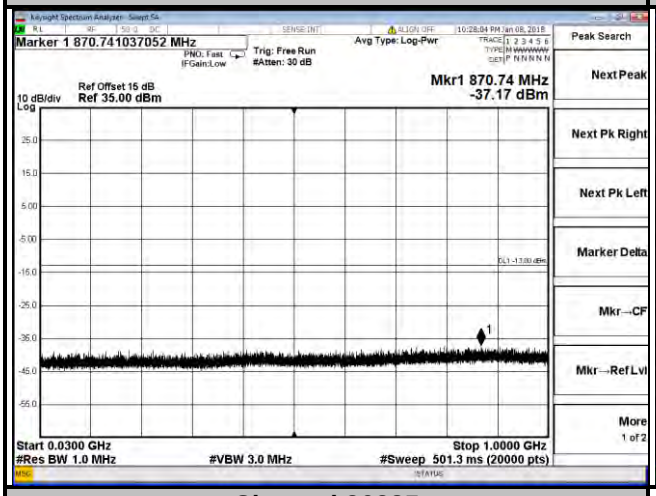


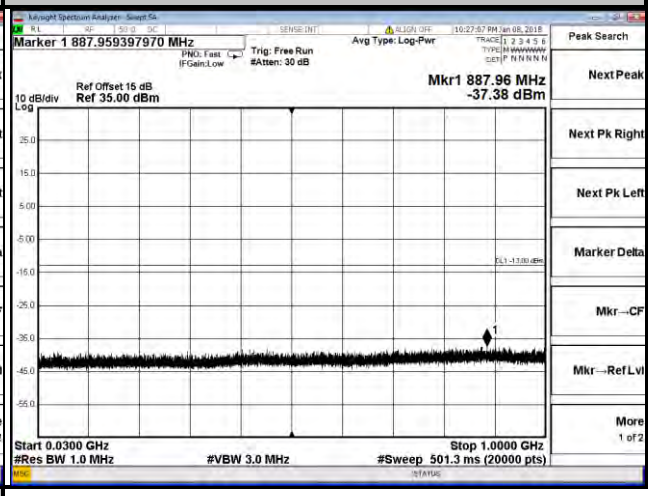


Channel 20393

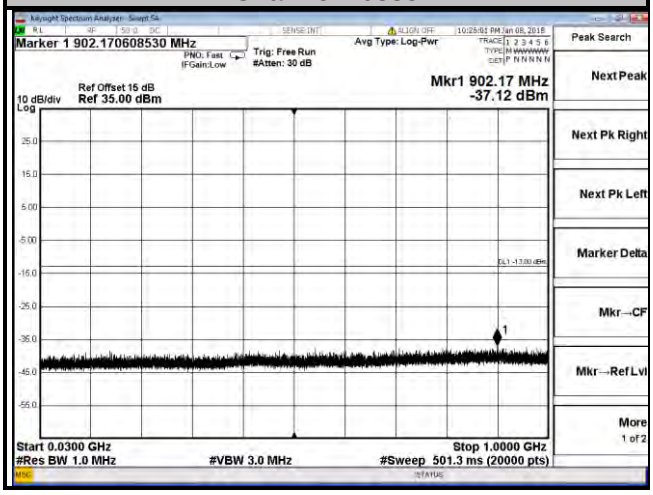


LTE Band 4	
Channel Bandwidth: 3 MHz	
Channel 19965	Channel 20175

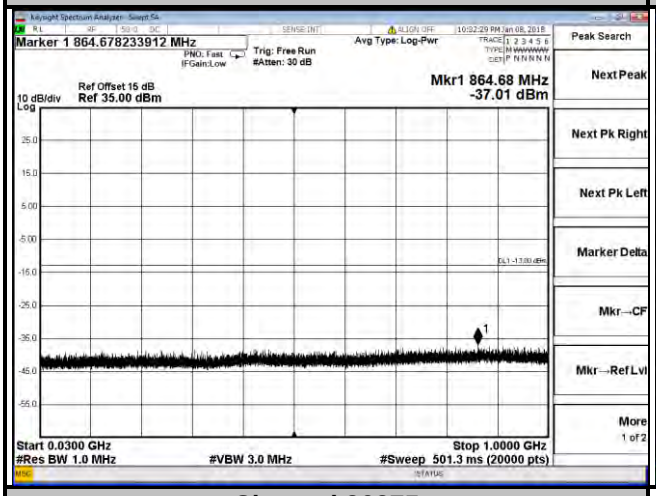


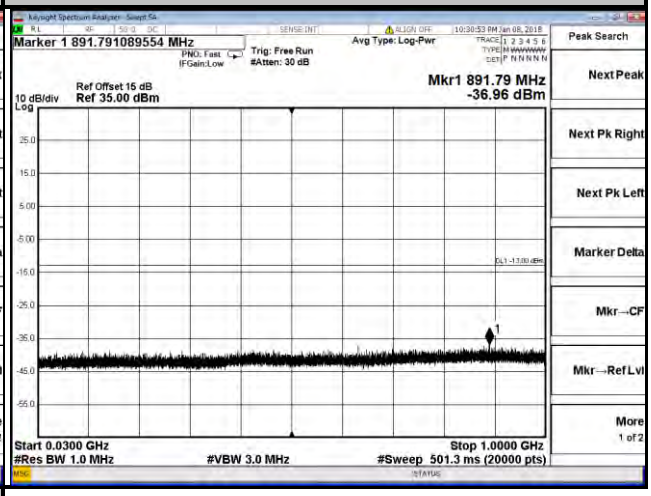


Channel 20385

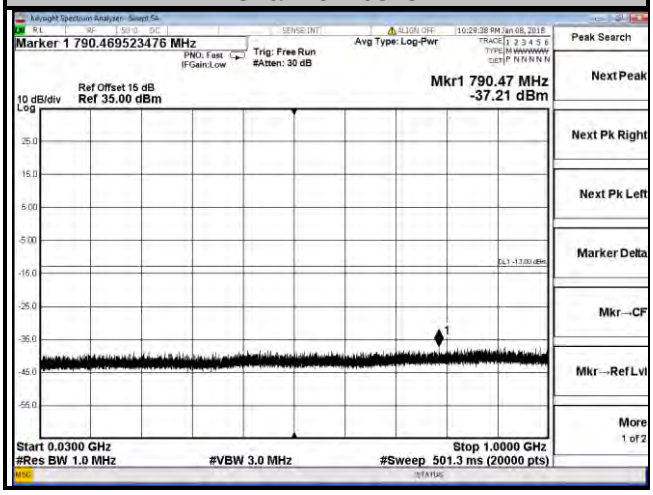


LTE Band 4	
Channel Bandwidth: 5 MHz	
Channel 19975	Channel 20175

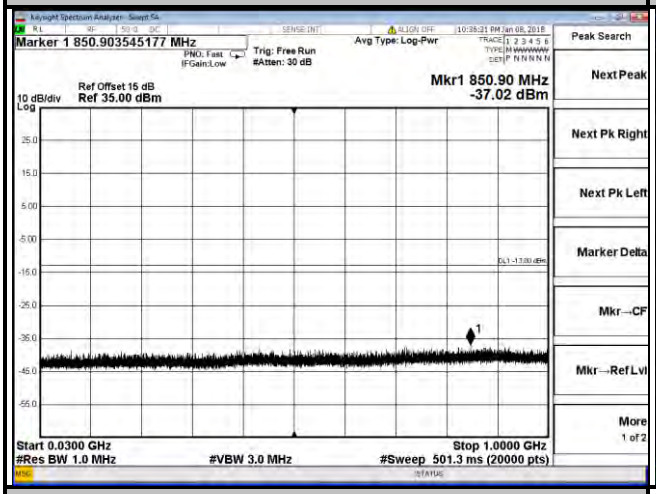


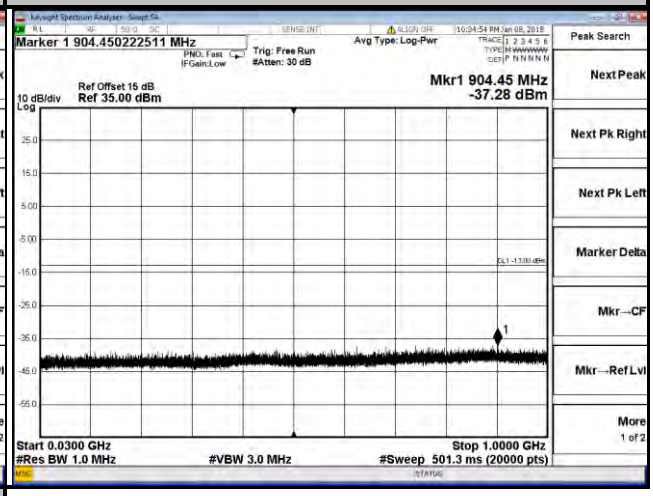


Channel 20375

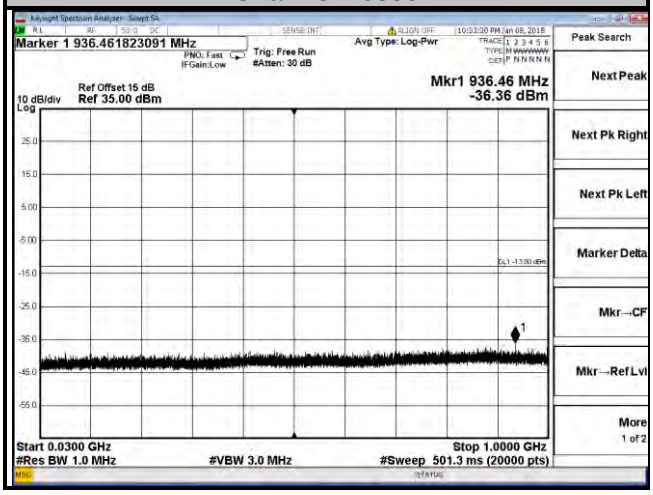


LTE Band 4	
Channel Bandwidth: 10 MHz	
Channel 20000	Channel 20175

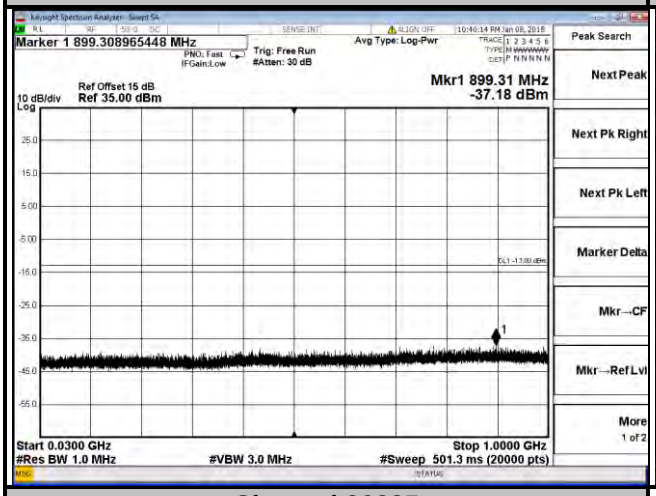


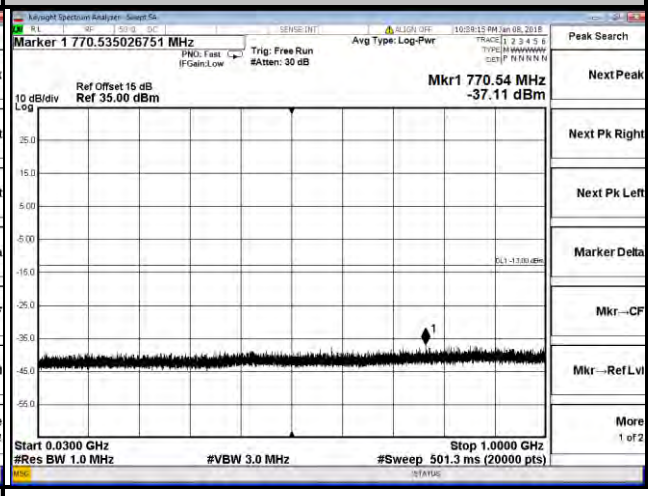


Channel 20350

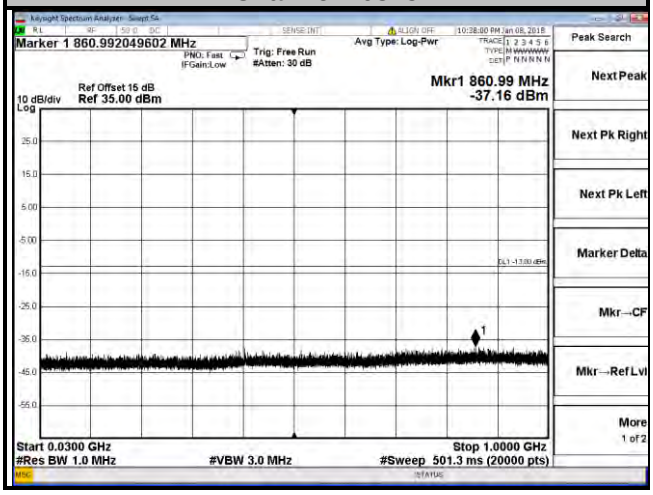


LTE Band 4	
Channel Bandwidth: 15 MHz	
Channel 20025	Channel 20175

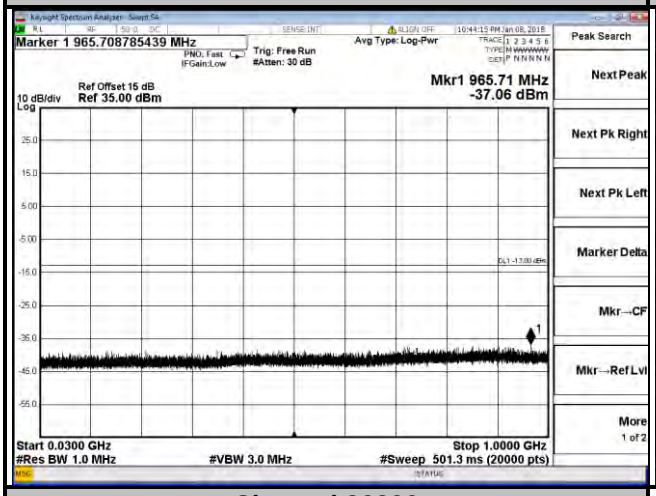


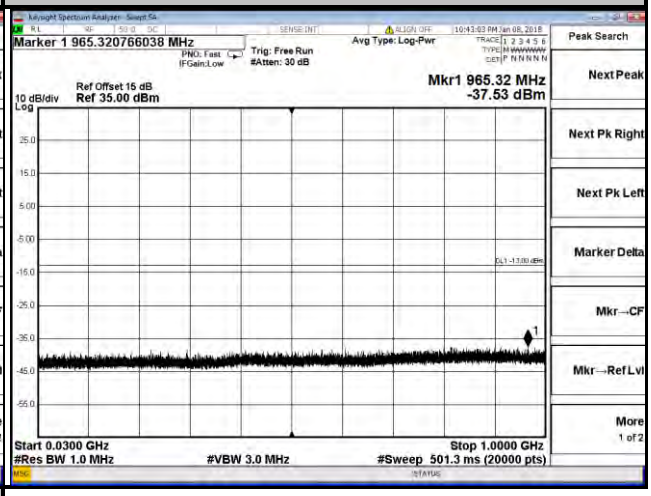


Channel 20325

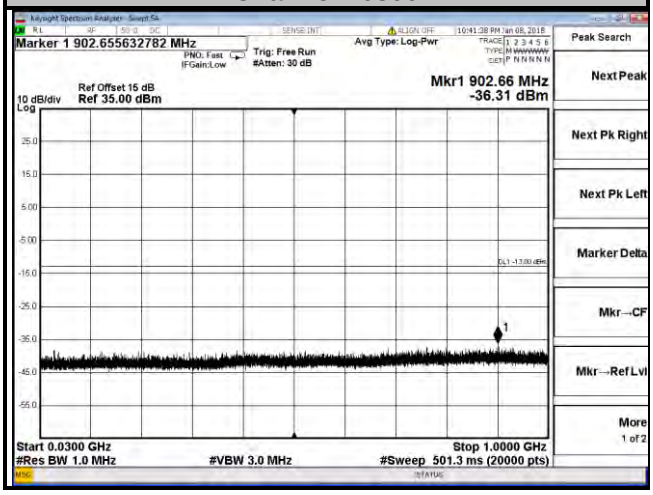


LTE Band 4	
Channel Bandwidth: 20 MHz	
Channel 20050	Channel 20175



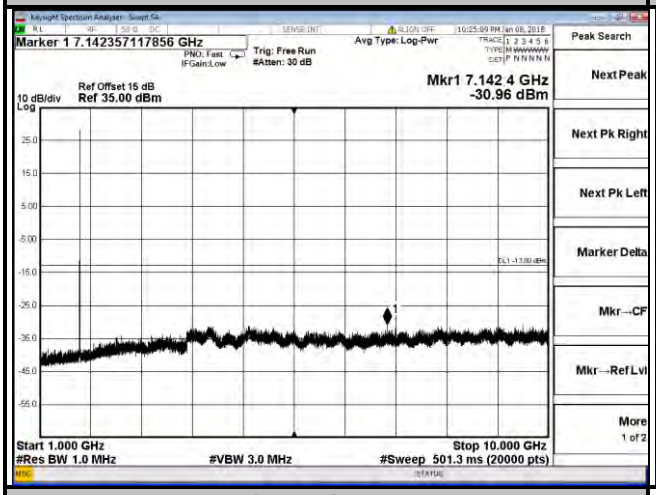


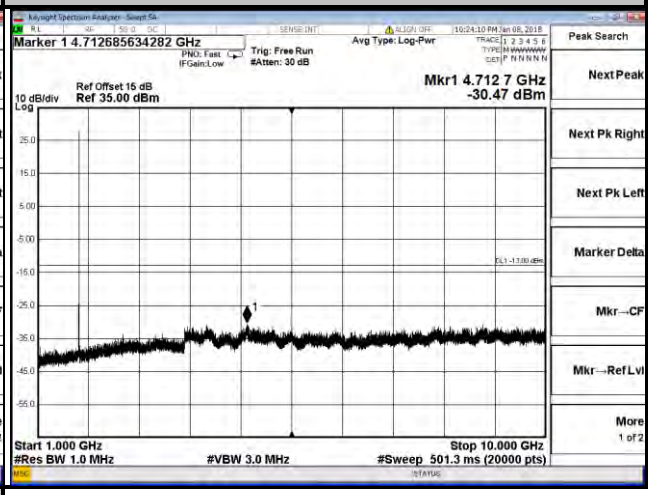
Channel 20300



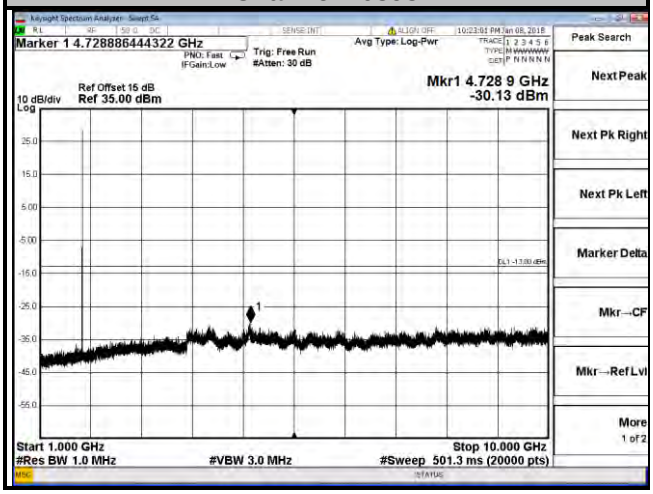
1GHz ~ 10GHz

LTE Band 4	
Channel Bandwidth: 1.4 MHz	
Channel 19957	Channel 20175

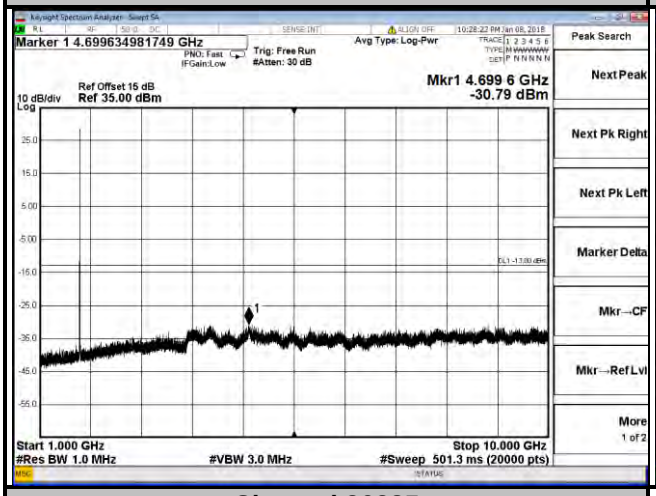


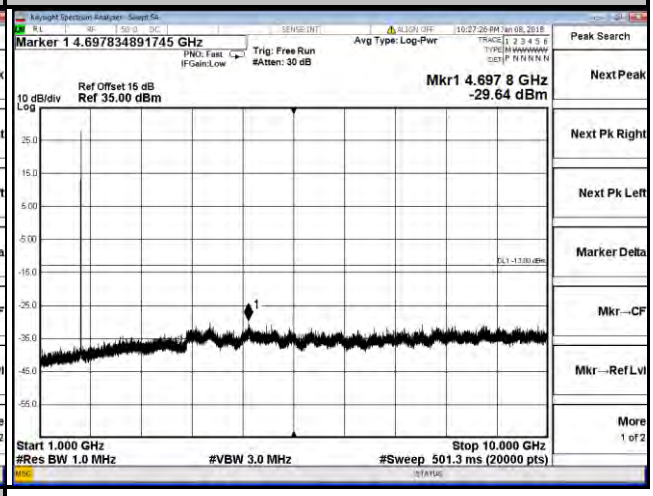


Channel 20393

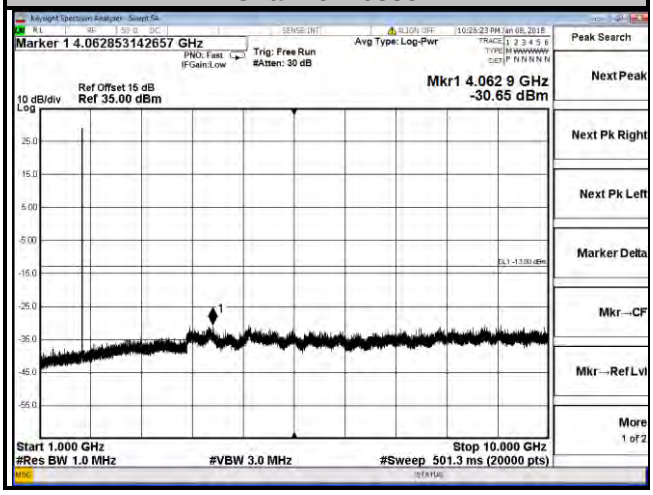


LTE Band 4	
Channel Bandwidth: 3 MHz	
Channel 19965	Channel 20175

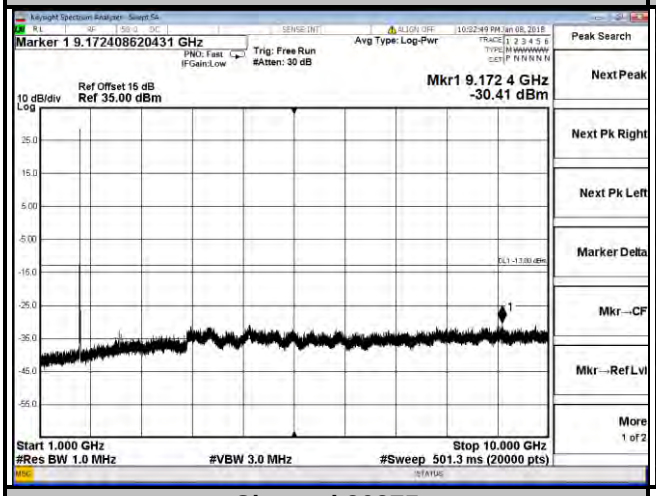


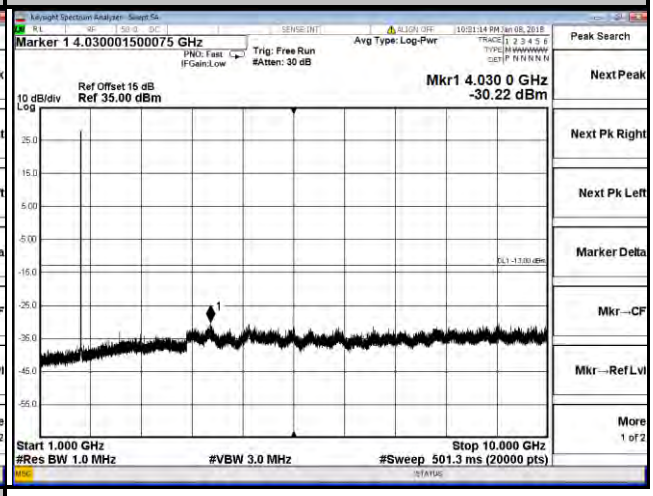


Channel 20385

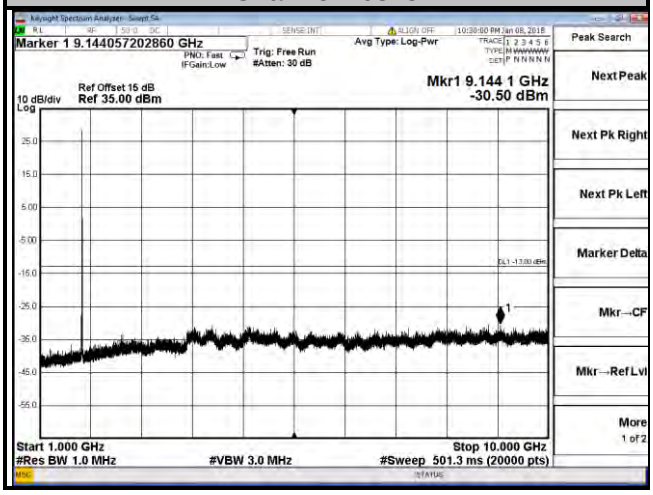


LTE Band 4	
Channel Bandwidth: 5 MHz	
Channel 19975	Channel 20175

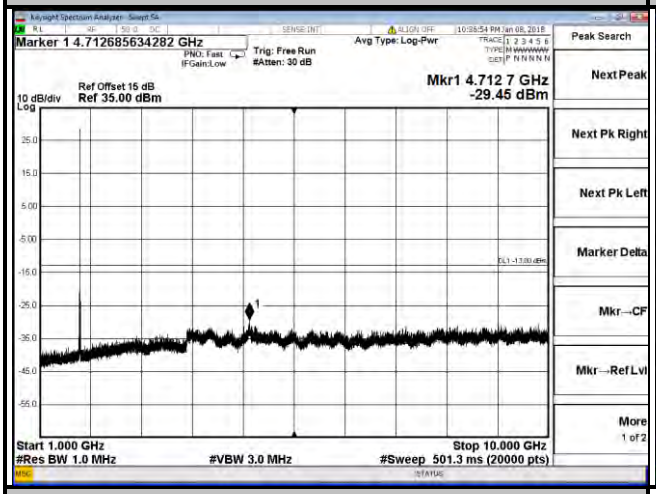


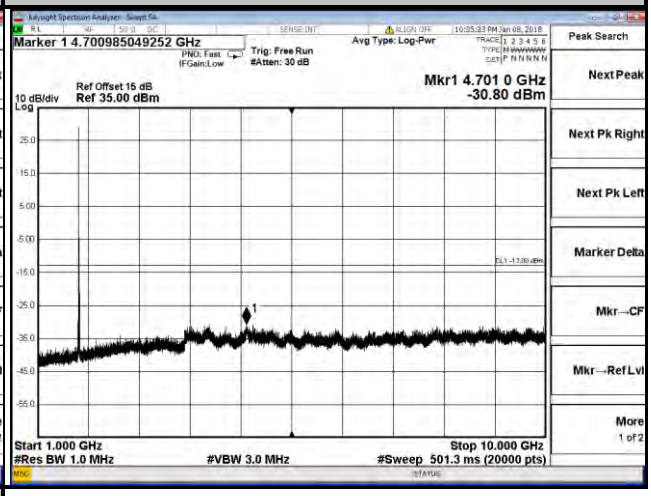


Channel 20375

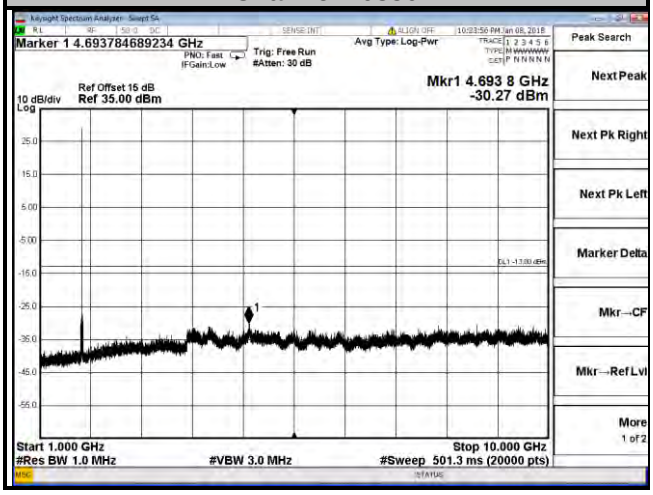


LTE Band 4	
Channel Bandwidth: 10 MHz	
Channel 20000	Channel 20175

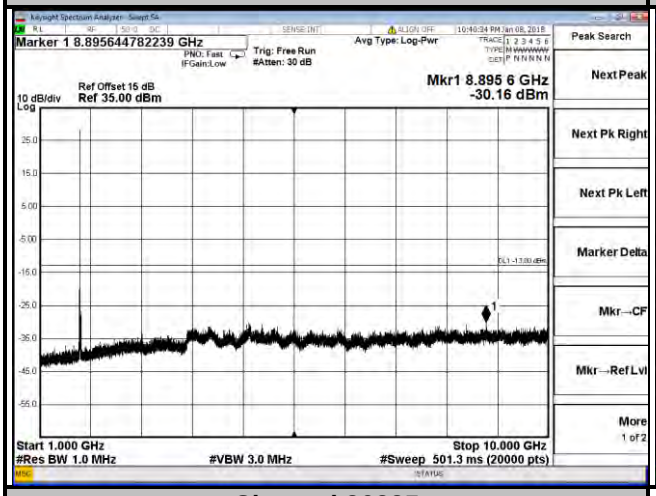


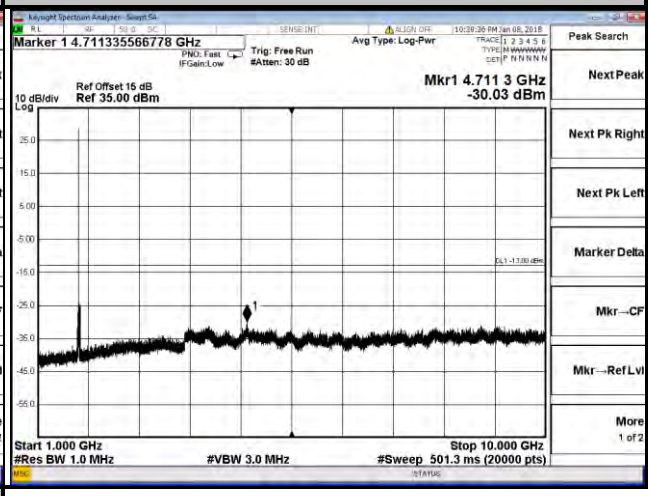


Channel 20350

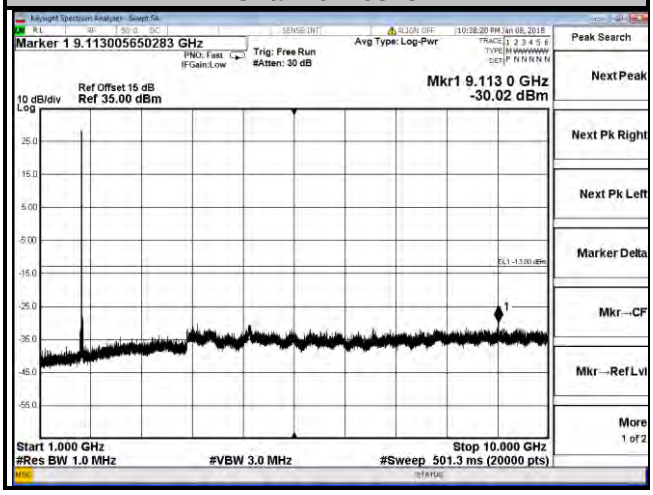


LTE Band 4	
Channel Bandwidth: 15 MHz	
Channel 20025	Channel 20175

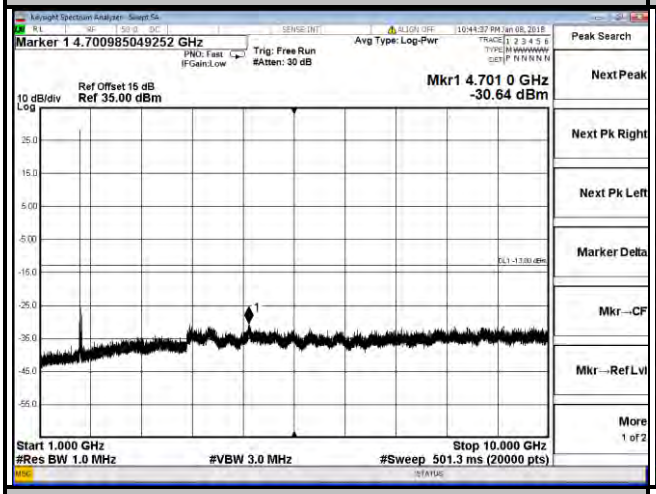


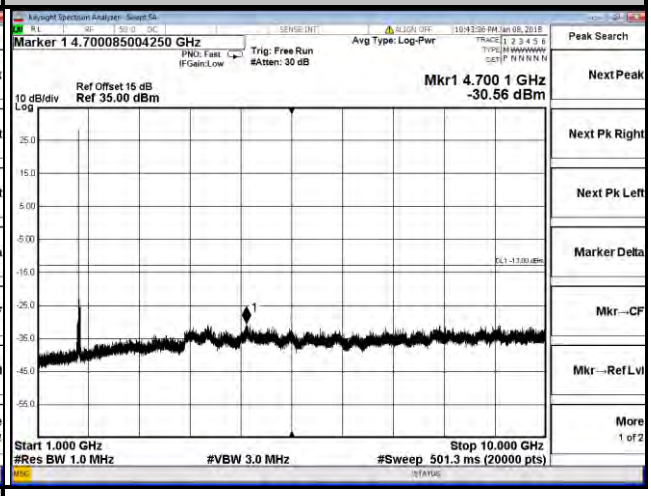


Channel 20325

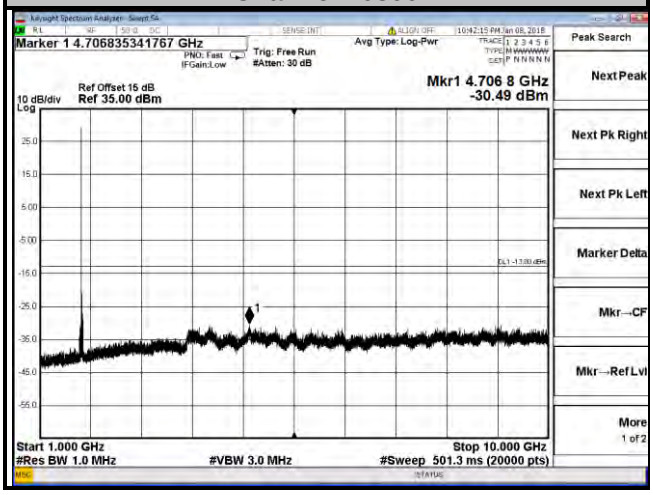


LTE Band 4	
Channel Bandwidth: 20 MHz	
Channel 20050	Channel 20175



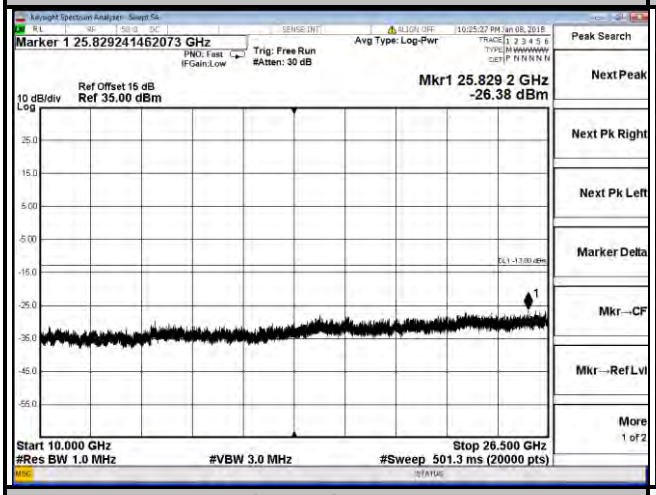


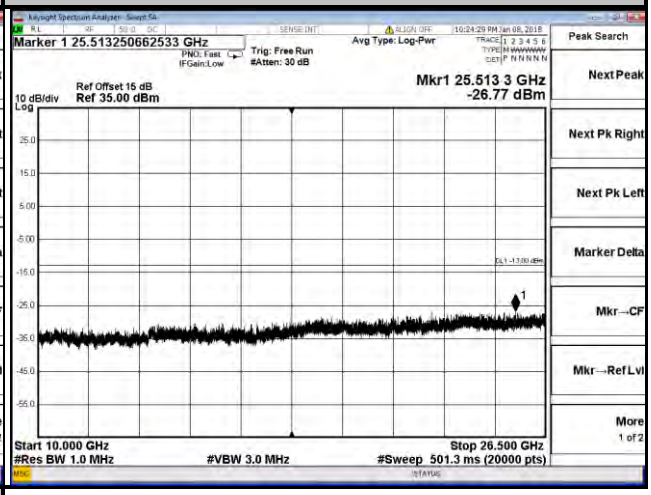
Channel 20300



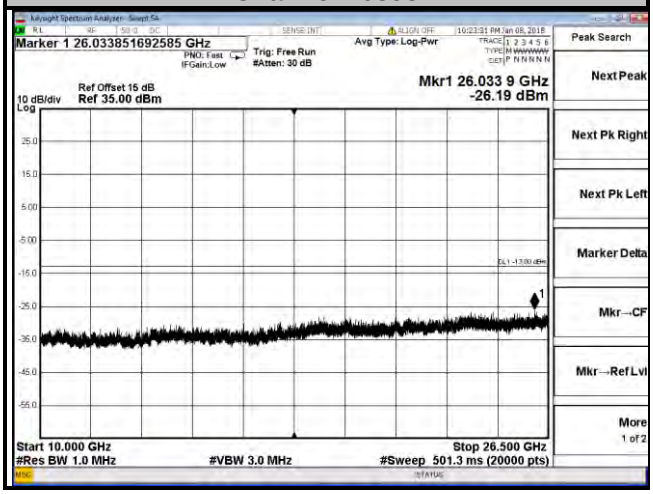
10GHz ~ 26.5GHz

LTE Band 4	
Channel Bandwidth: 1.4 MHz	
Channel 19957	Channel 20175

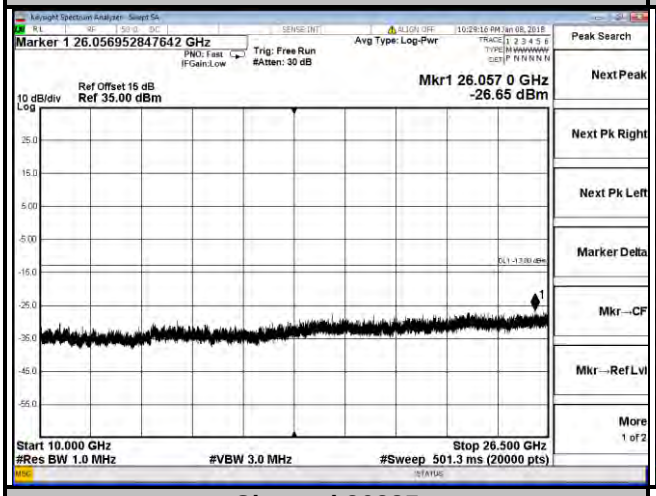


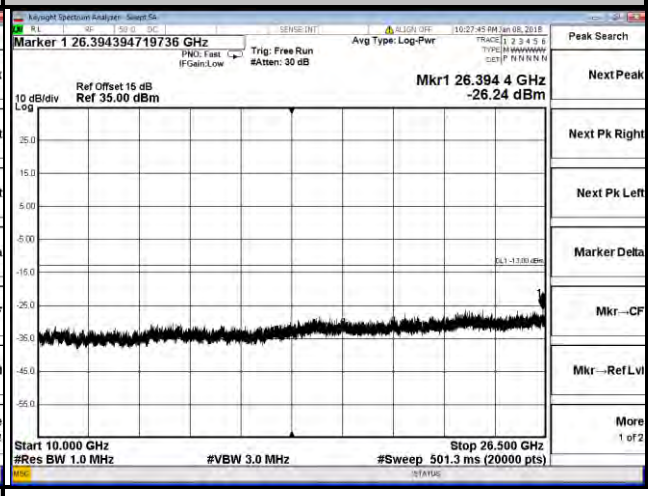


Channel 20393

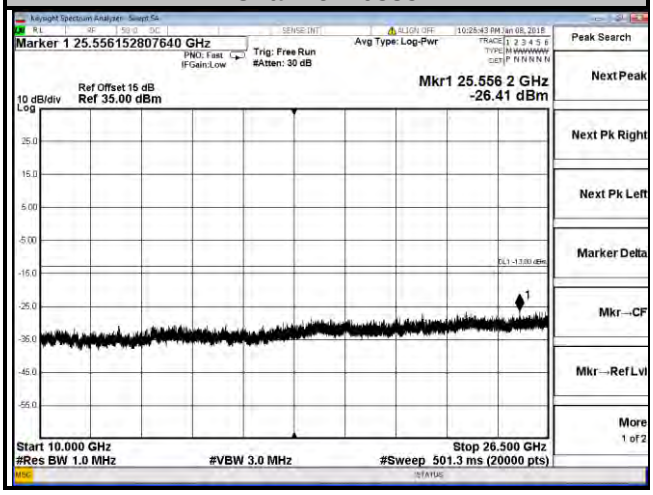


LTE Band 4	
Channel Bandwidth: 3 MHz	
Channel 19965	Channel 20175

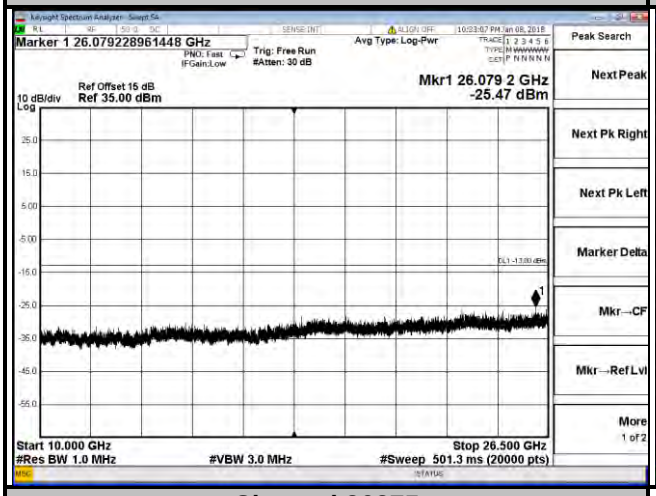


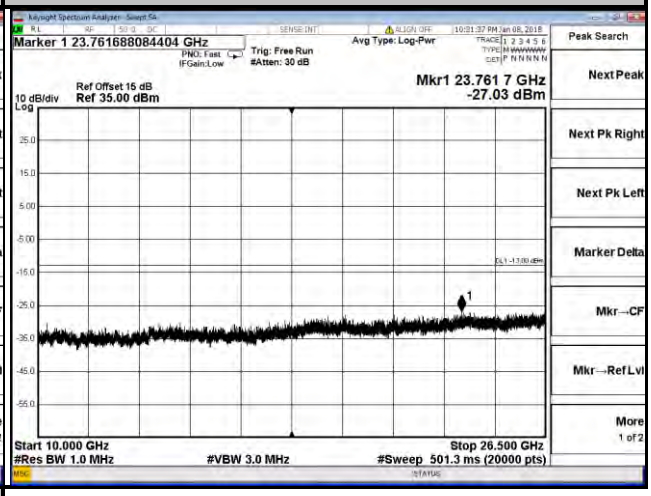


Channel 20385

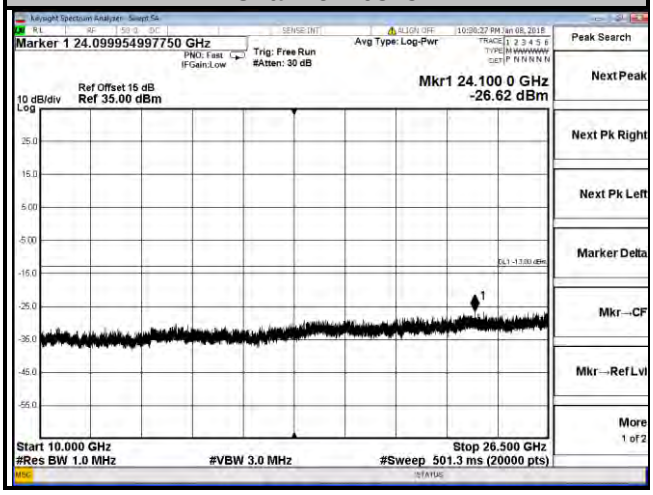


LTE Band 4	
Channel Bandwidth: 5 MHz	
Channel 19975	Channel 20175

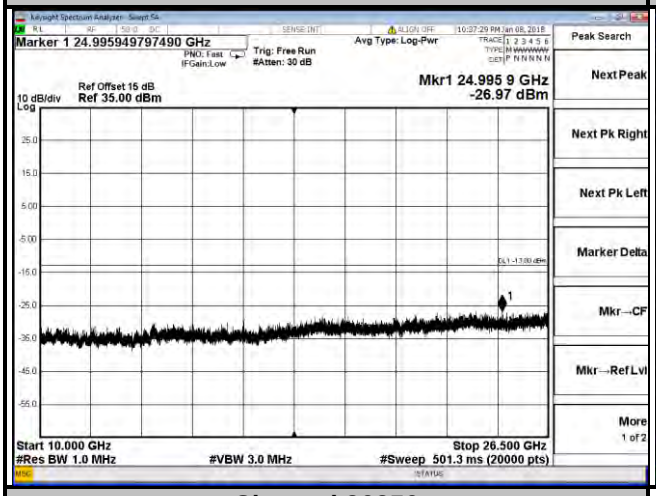


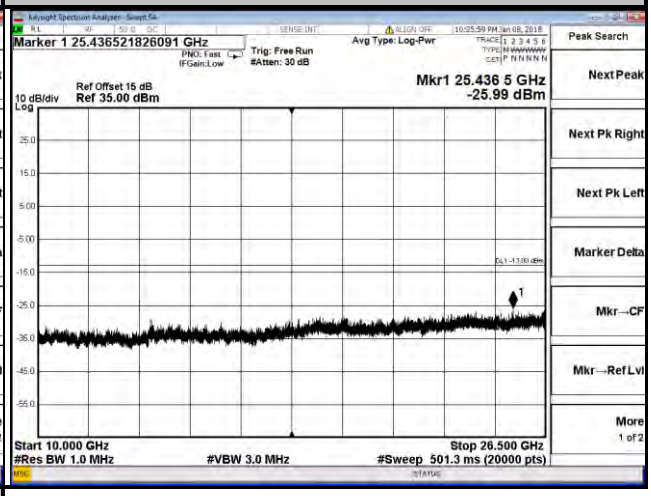


Channel 20375

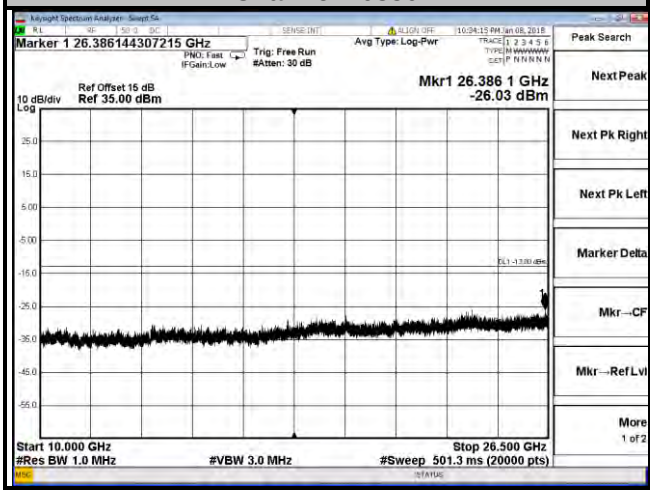


LTE Band 4	
Channel Bandwidth: 10 MHz	
Channel 20000	Channel 20175

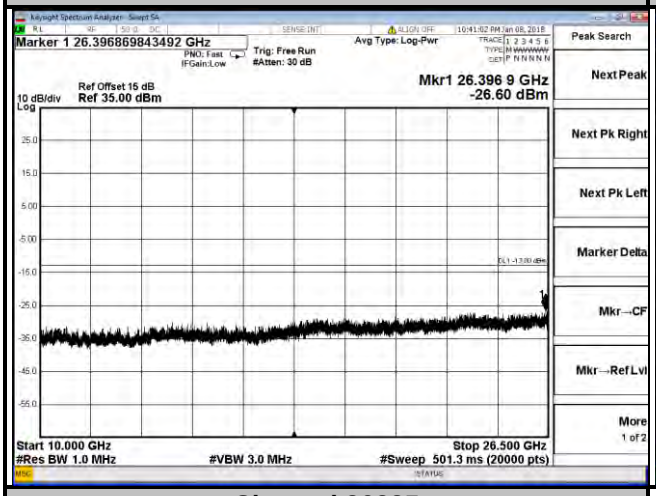


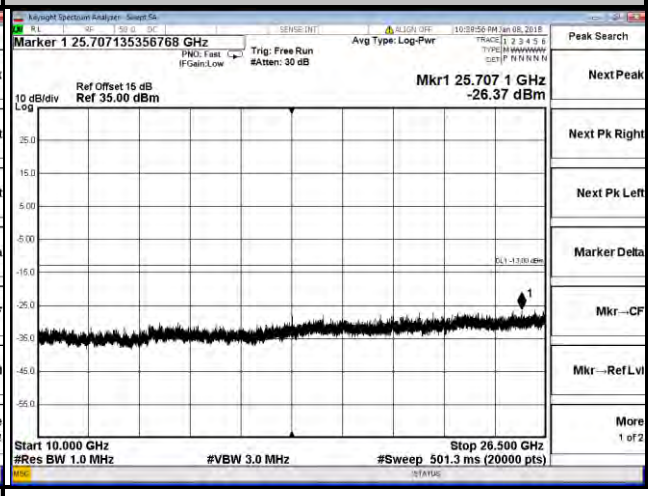


Channel 20350

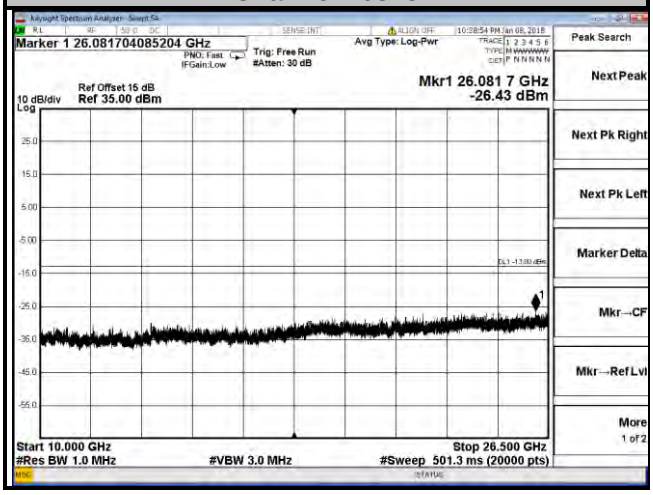


LTE Band 4	
Channel Bandwidth: 15 MHz	
Channel 20025	Channel 20175

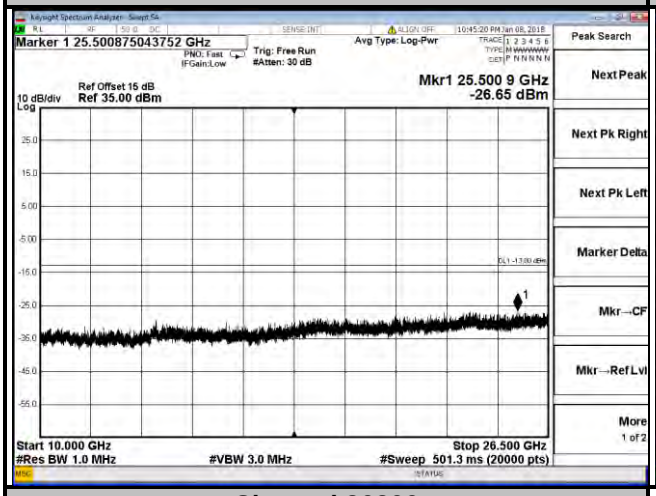


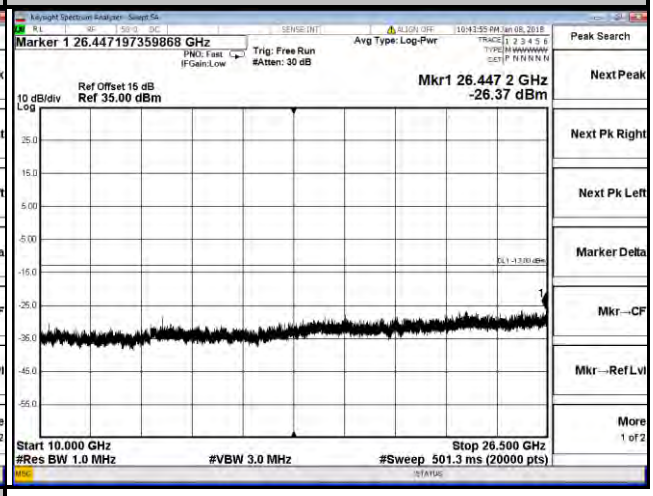


Channel 20325

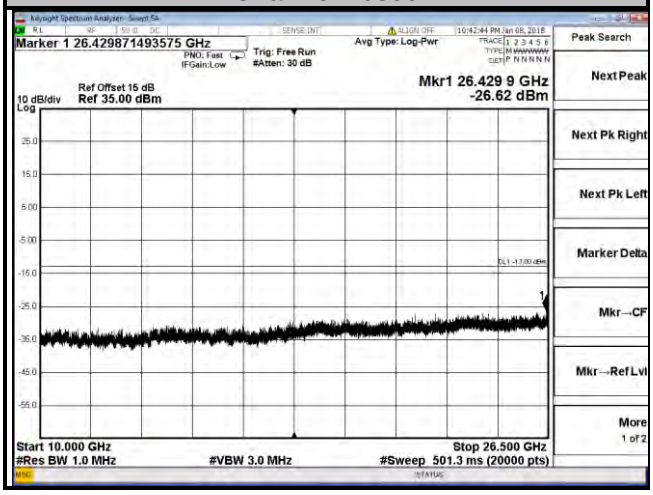


LTE Band 4	
Channel Bandwidth: 20 MHz	
Channel 20050	Channel 20175





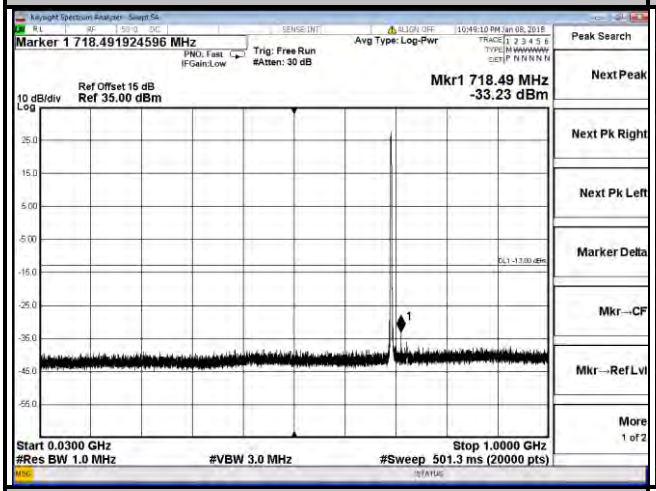
Channel 20300

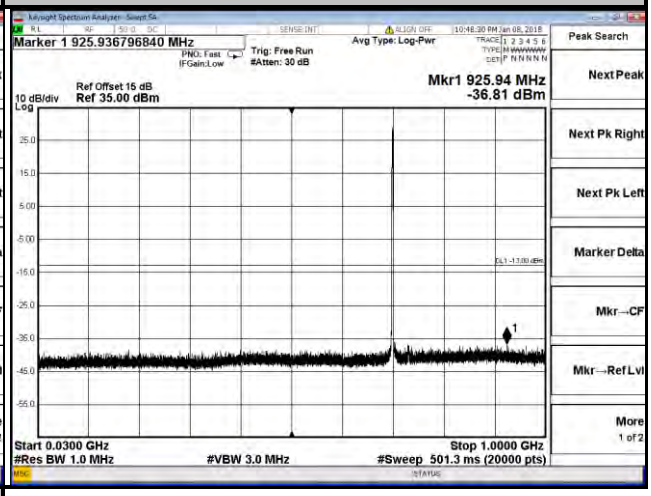


LTE Band 12

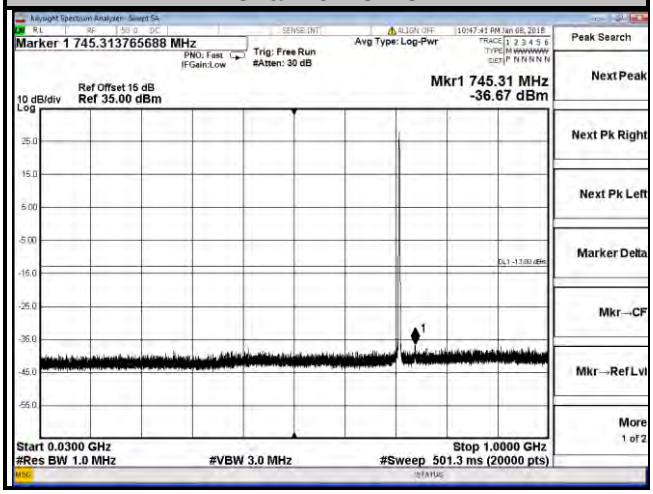
30MHz ~ 1GHz

LTE Band 12	
Channel Bandwidth: 1.4 MHz	
Channel 23017	Channel 23095





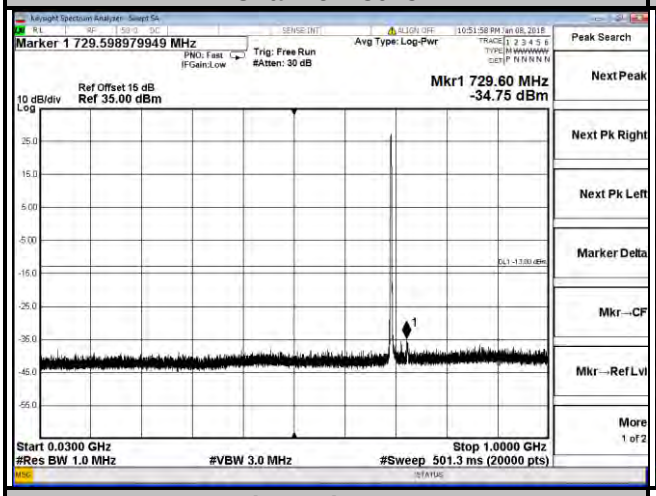
Channel 23173



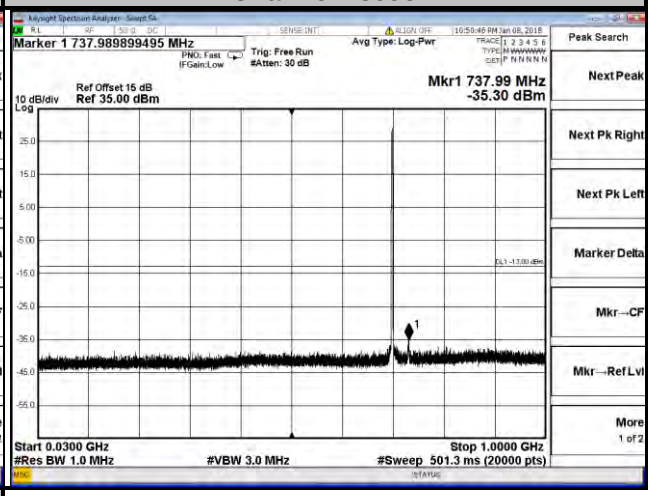
LTE Band 12

Channel Bandwidth: 3 MHz

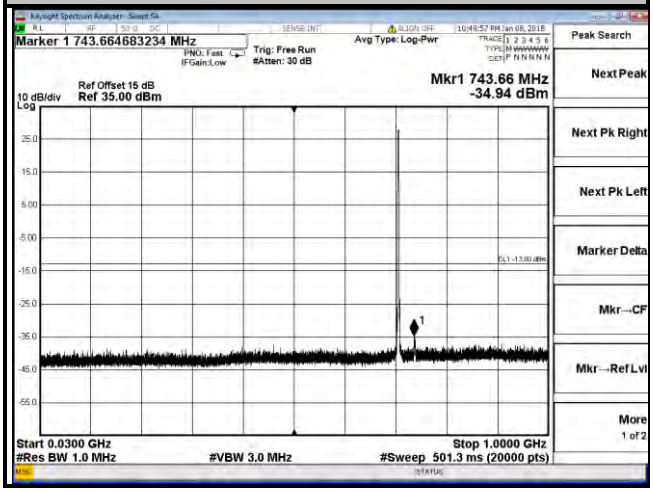
Channel 23025



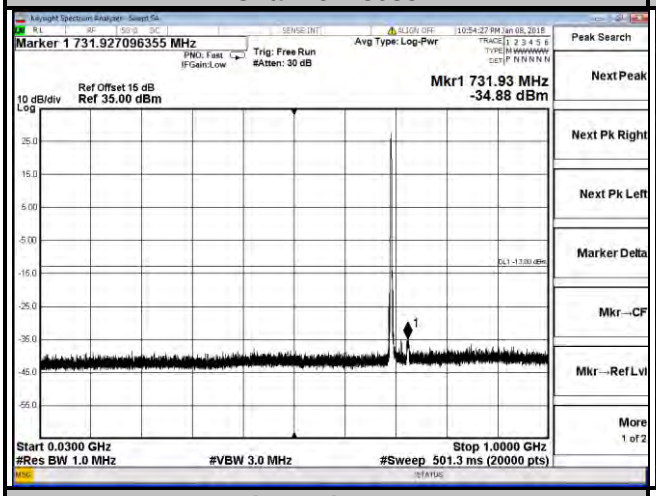
Channel 23095

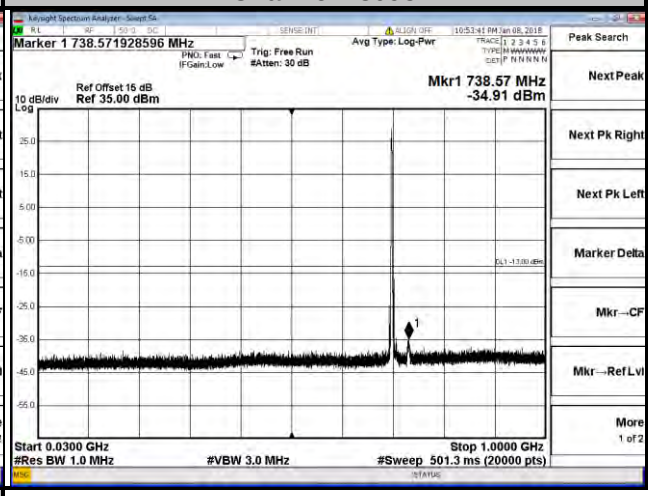


Channel 23165

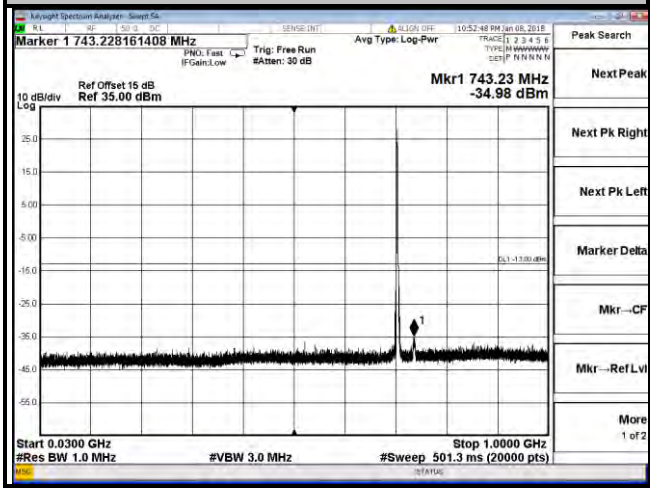


LTE Band 12	
Channel Bandwidth: 5 MHz	
Channel 23035	Channel 23095

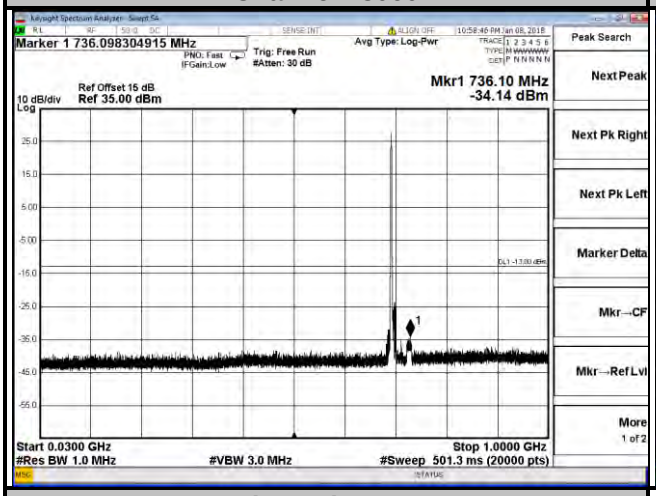


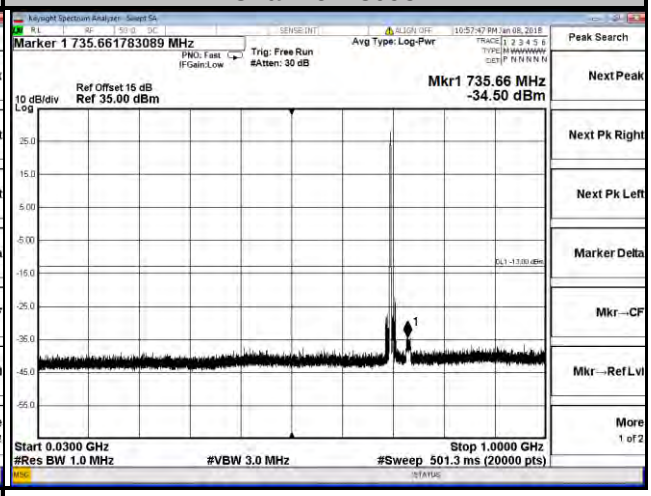


Channel 23155

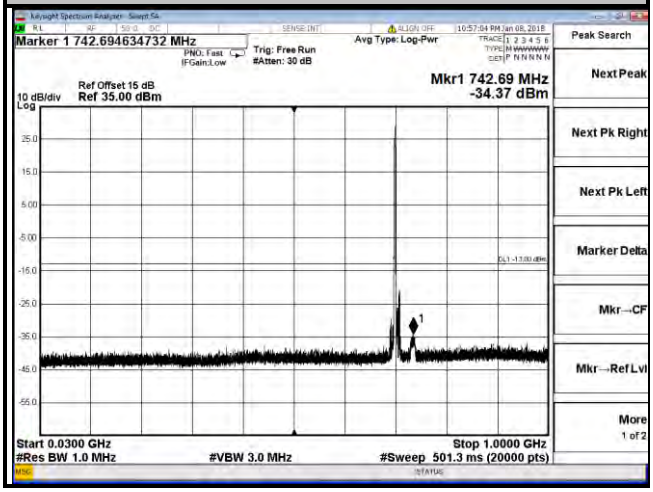


LTE Band 12	
Channel Bandwidth: 10 MHz	
Channel 23060	Channel 23095



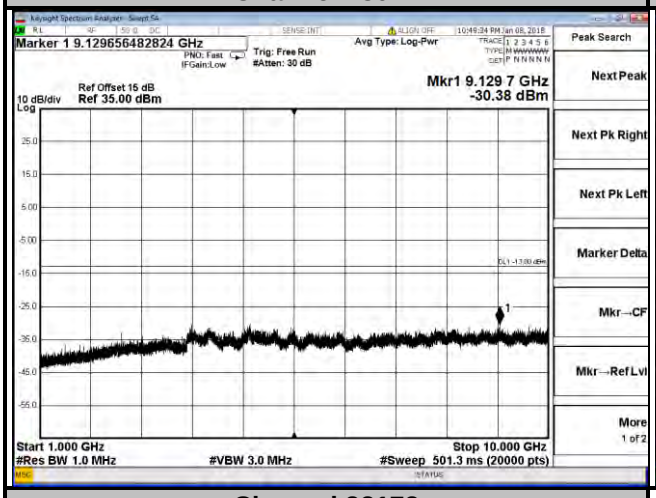


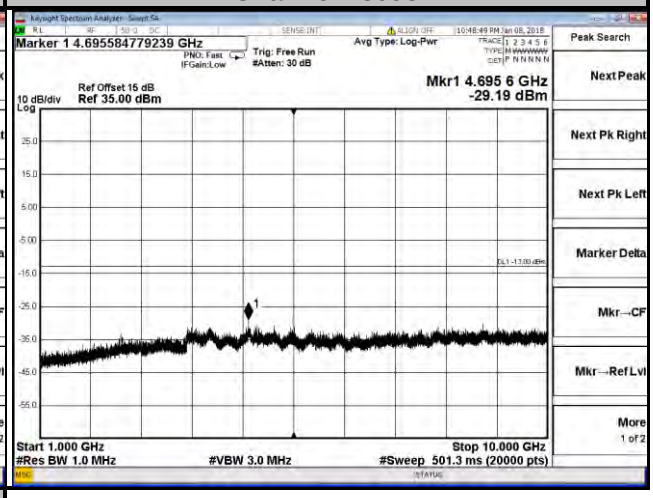
Channel 23130



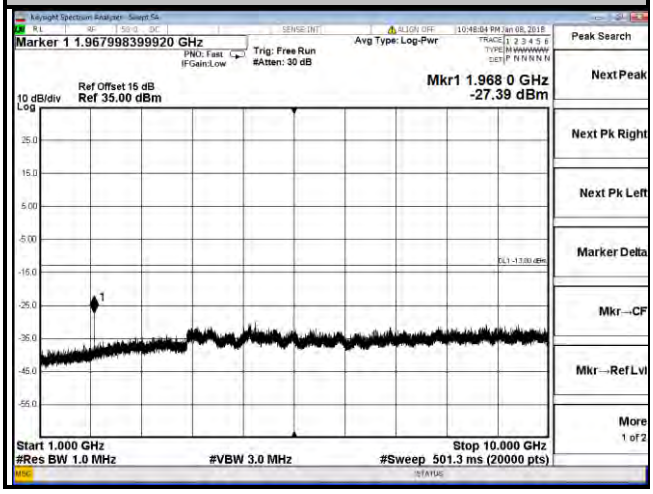
1GHz ~ 10GHz

LTE Band 12	
Channel Bandwidth: 1.4 MHz	
Channel 23017	Channel 23095





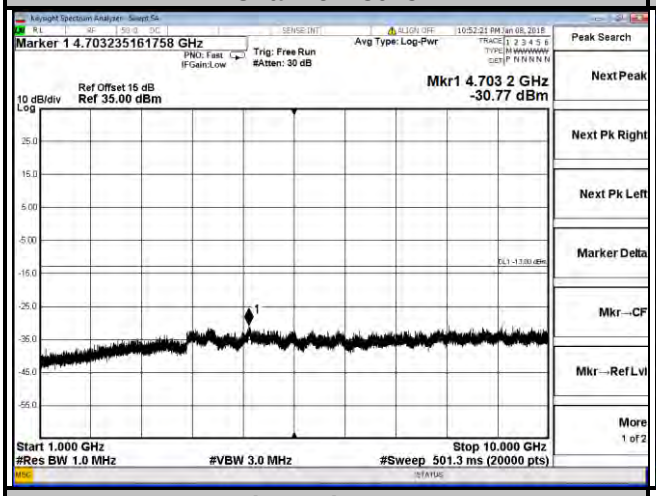
Channel 23173



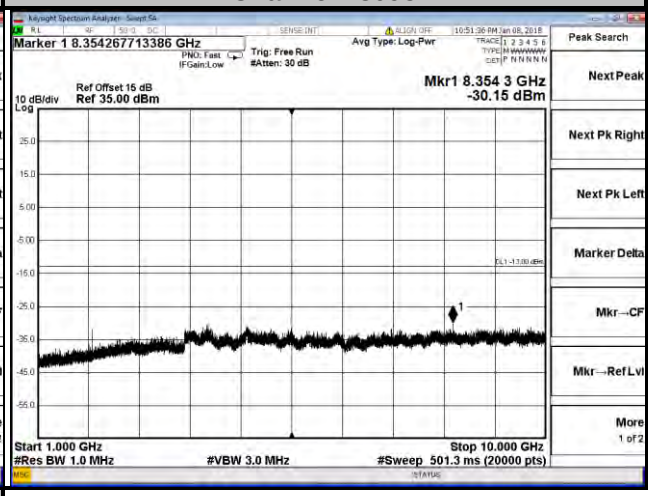
LTE Band 12

Channel Bandwidth: 3 MHz

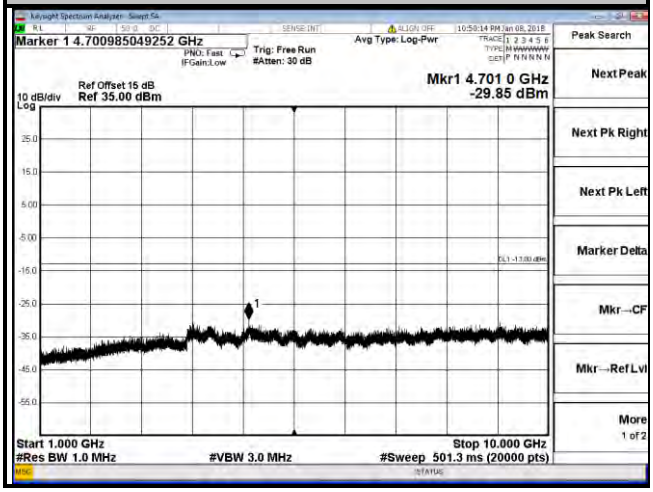
Channel 23025



Channel 23095



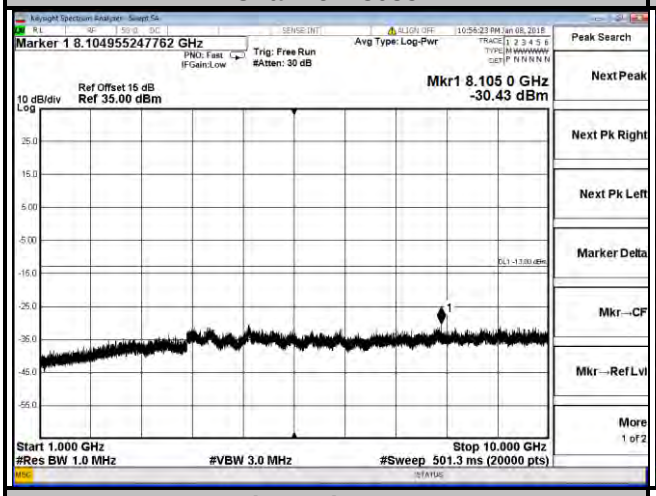
Channel 23165



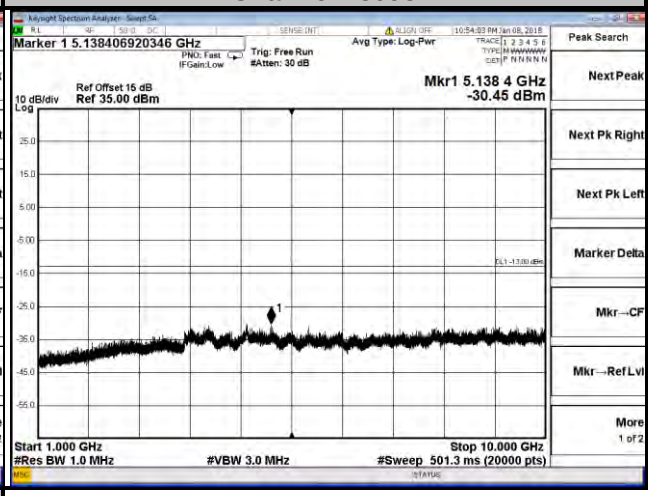
LTE Band 12

Channel Bandwidth: 5 MHz

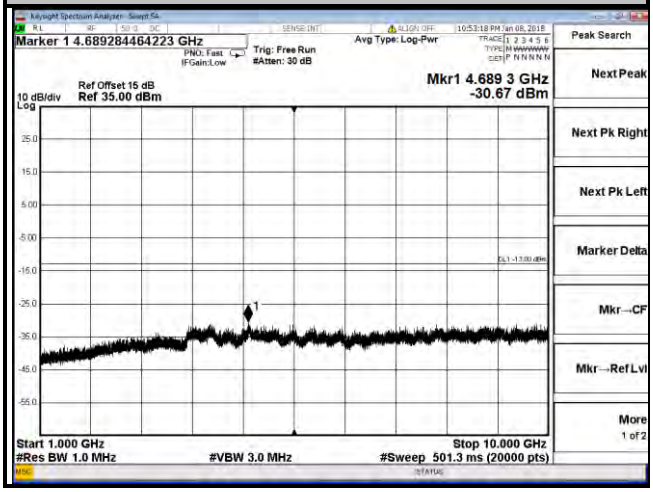
Channel 23035



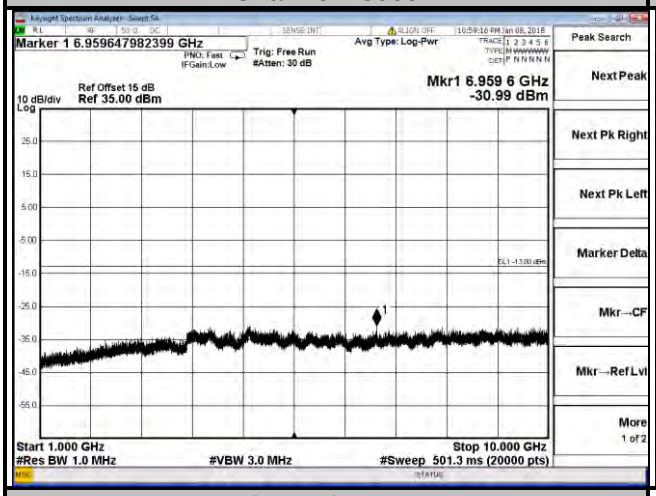
Channel 23095

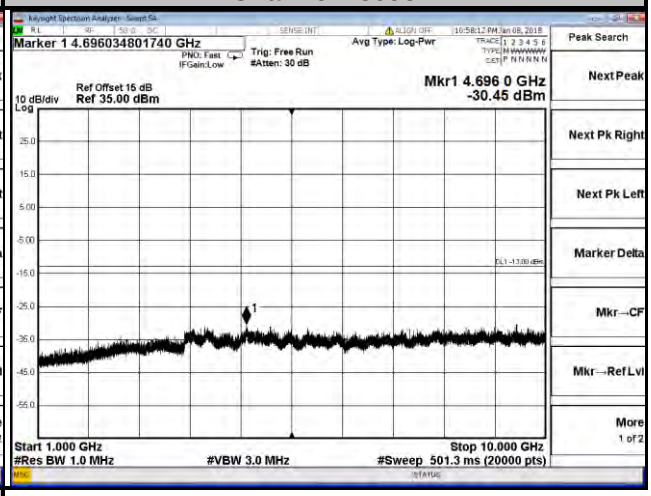


Channel 23155

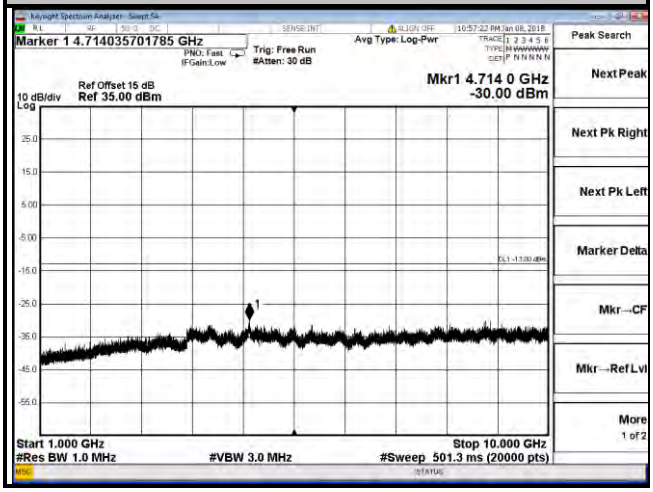


LTE Band 12	
Channel Bandwidth: 10 MHz	
Channel 23060	Channel 23095





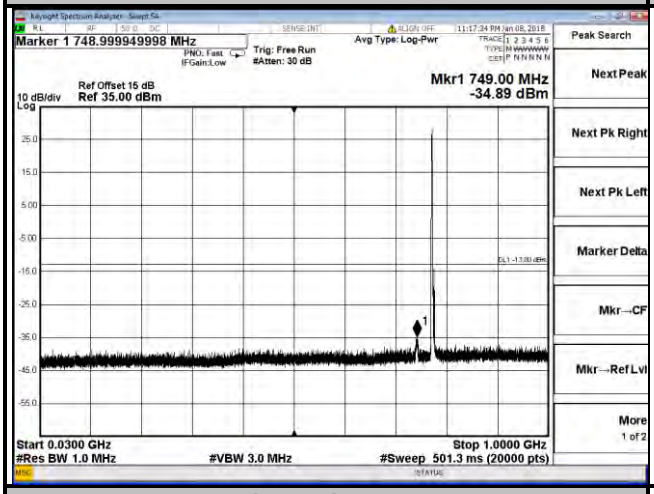
Channel 23130

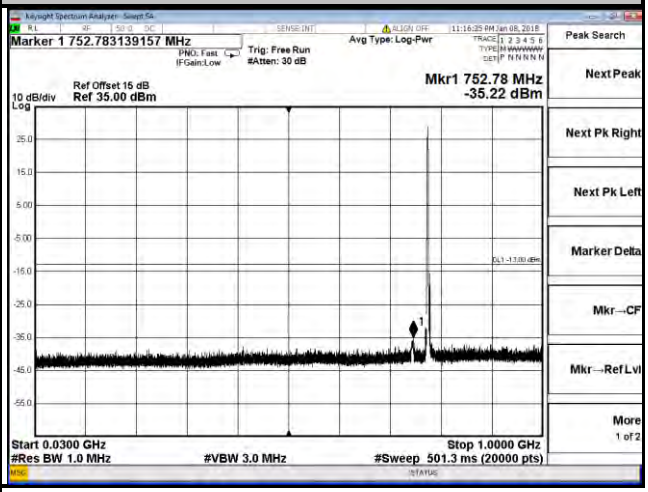


LTE Band 13

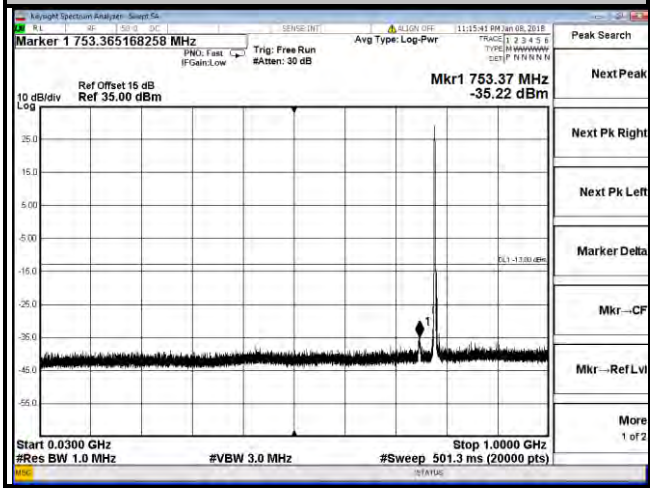
30MHz ~ 1GHz

LTE Band 13	
Channel Bandwidth: 5 MHz	
Channel 23205	Channel 23230

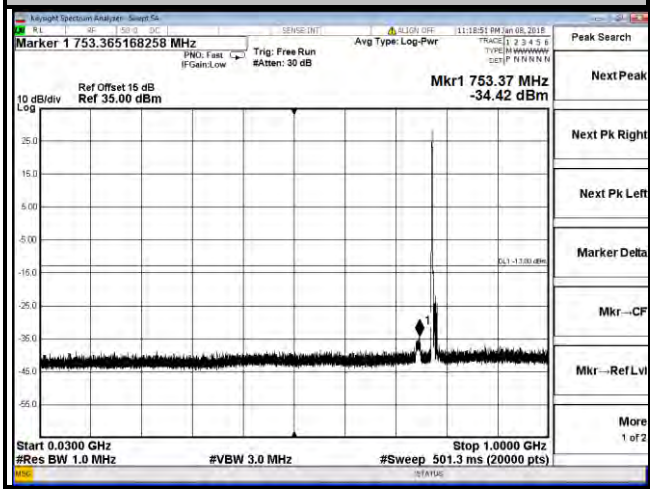




Channel 23255

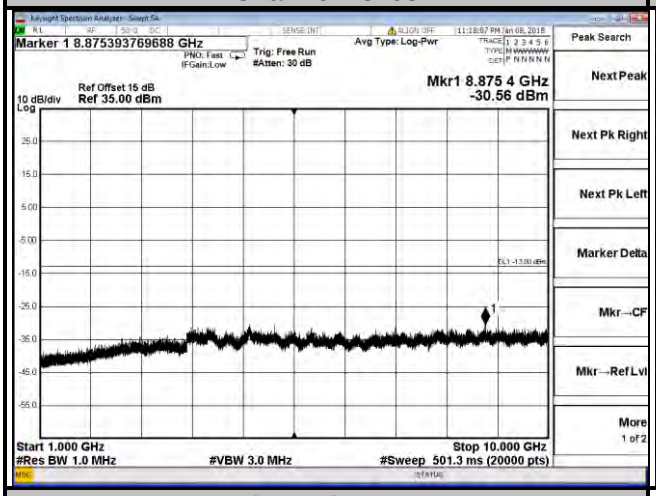


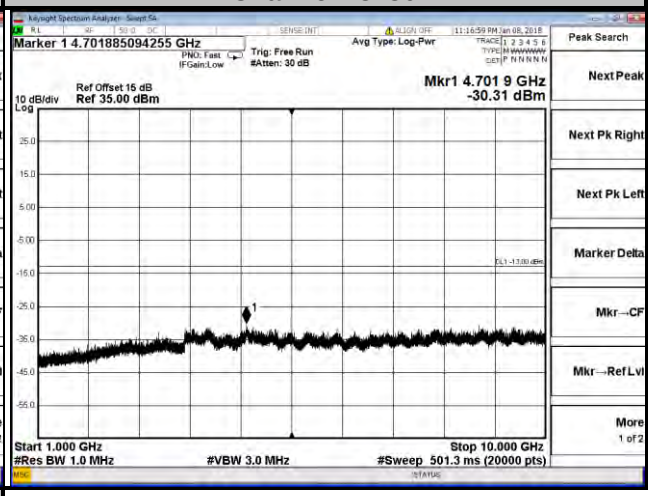
LTE Band 13
Channel Bandwidth: 10 MHz
Channel 23230



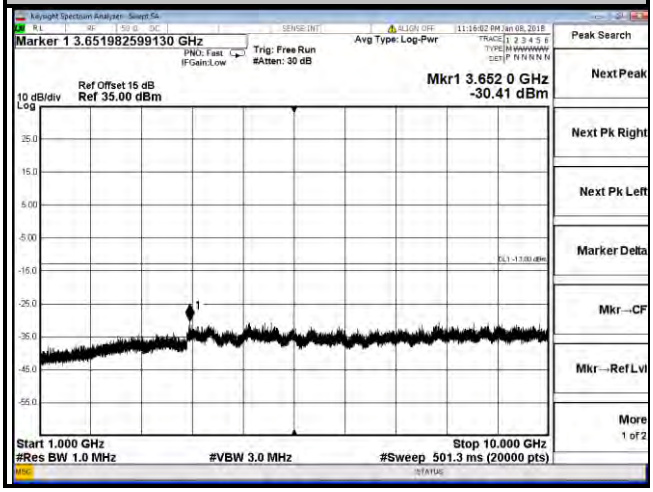
1GHz ~ 10GHz

LTE Band 13	
Channel Bandwidth: 5 MHz	
Channel 23205	Channel 23230

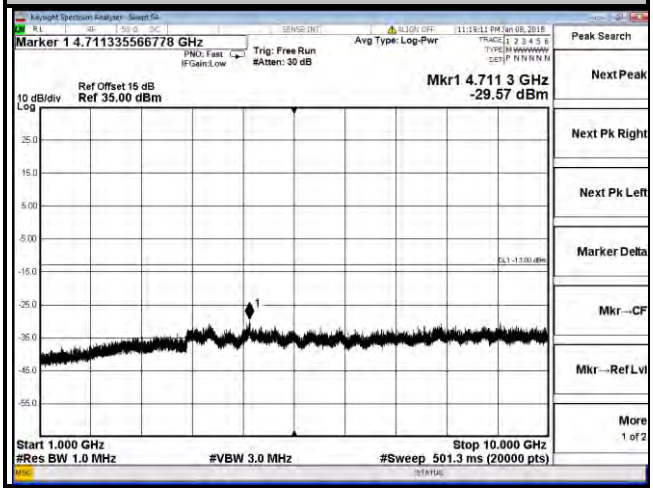




Channel 23255

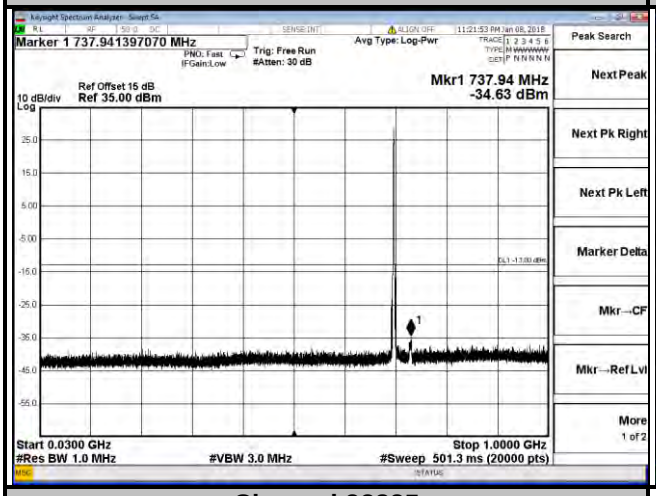
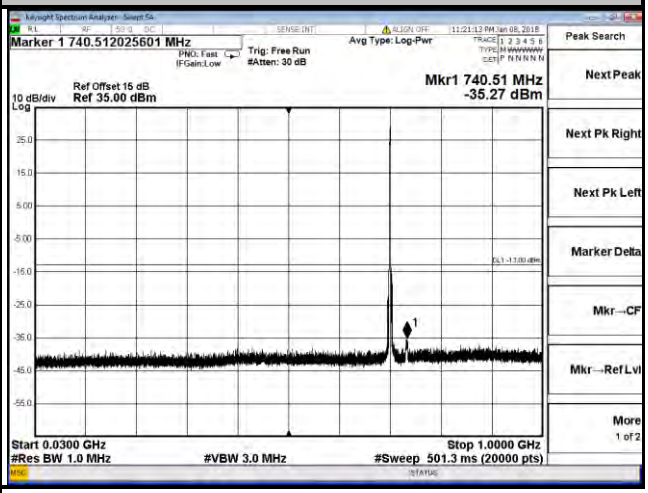
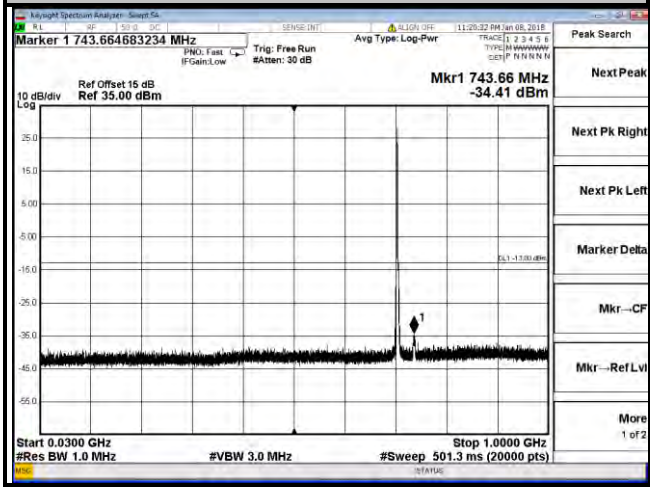


LTE Band 13
Channel Bandwidth: 10 MHz
Channel 23230

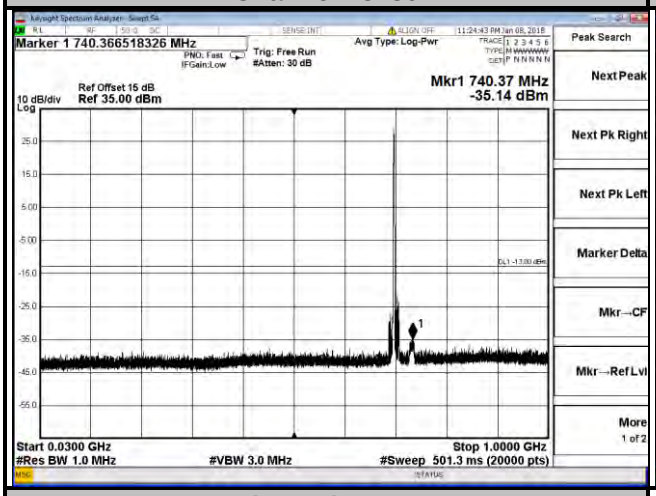


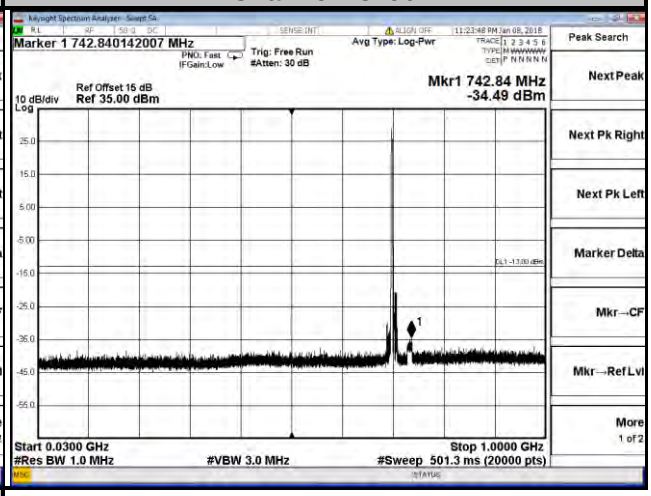
LTE Band 17

30MHz ~ 1GHz

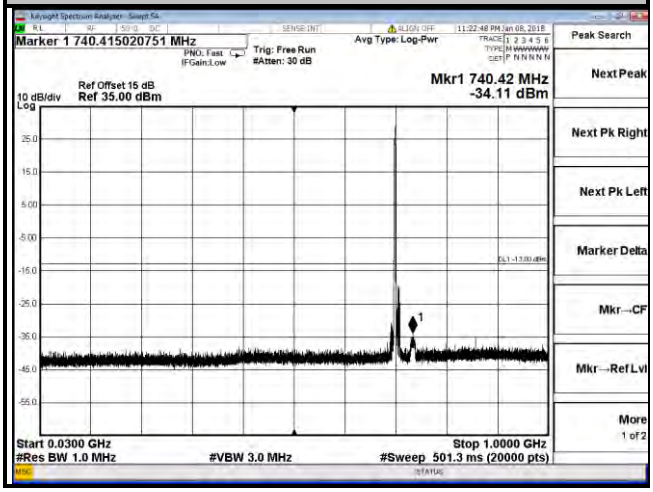
LTE Band 17	
Channel Bandwidth: 5 MHz	
Channel 23755	Channel 23790
	
Channel 23825	
	

LTE Band 17	
Channel Bandwidth: 10 MHz	
Channel 23780	Channel 23790



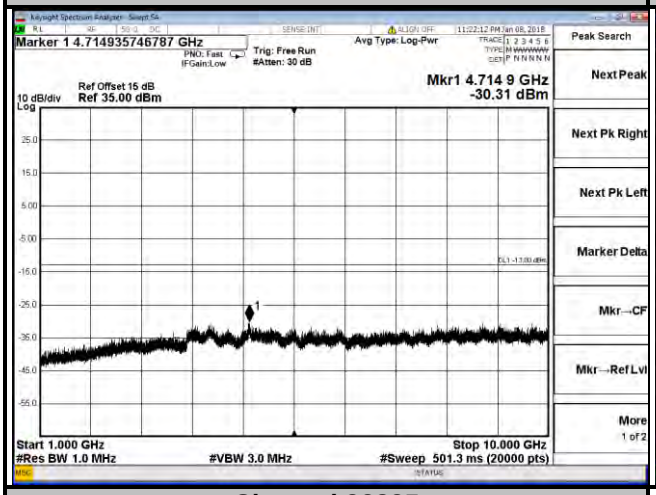


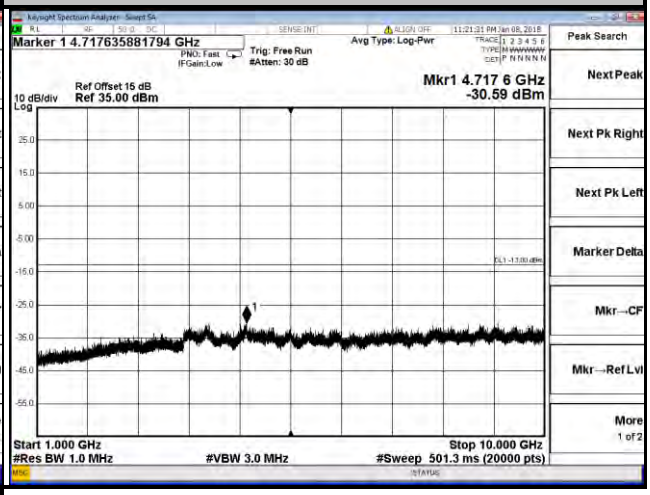
Channel 23800



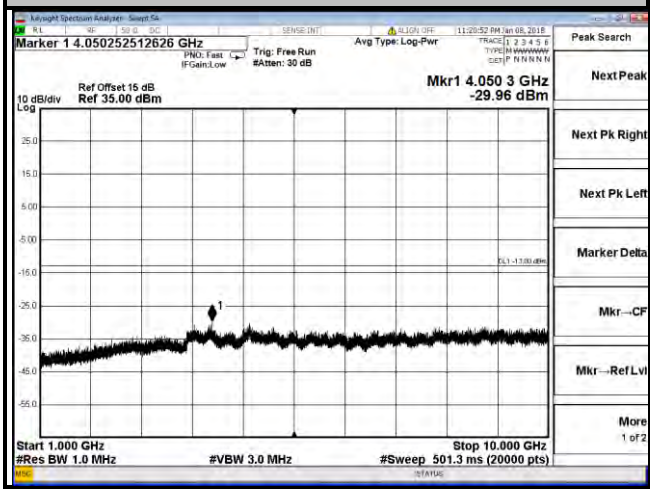
1GHz ~ 10GHz

LTE Band 17	
Channel Bandwidth: 5 MHz	
Channel 23755	Channel 23790

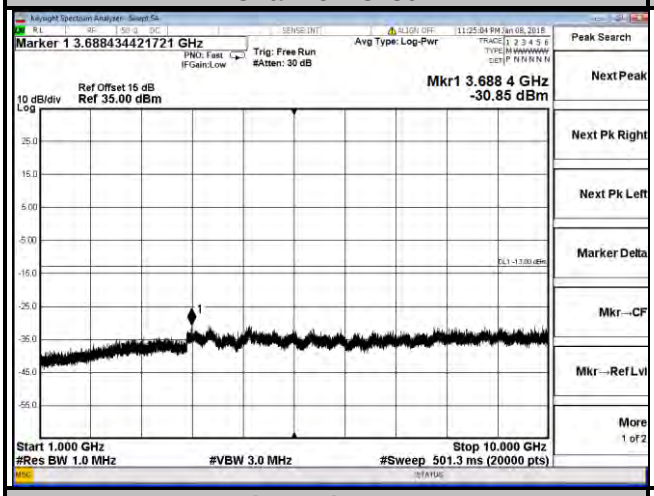


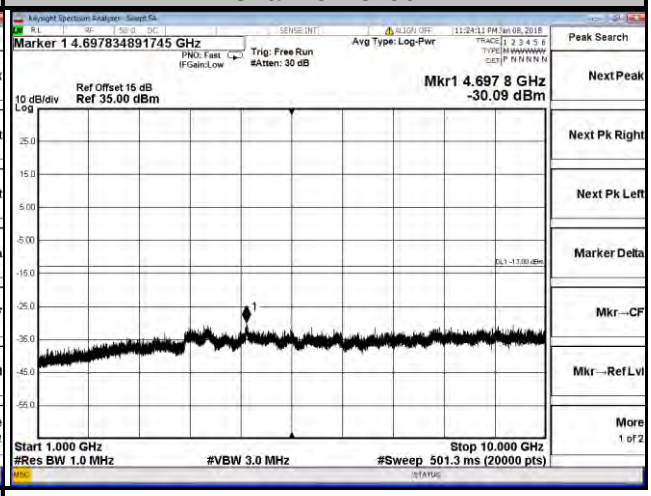


Channel 23825

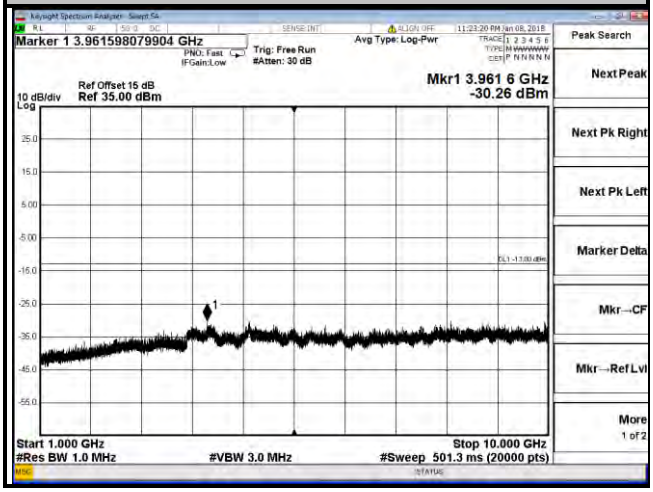


LTE Band 17	
Channel Bandwidth: 10 MHz	
Channel 23780	Channel 23790





Channel 23800



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

a. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 +10 log10(P) dB. The limit of emission is equal to -13 dBm.
b. For operations in the 775-788 MHz, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz. The limit of emissions is equal to -40 dBm.

4.7.2 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 = Output power level of S.G – TX cable loss + 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 power = E.I.P.R power - 2.15 dBi.

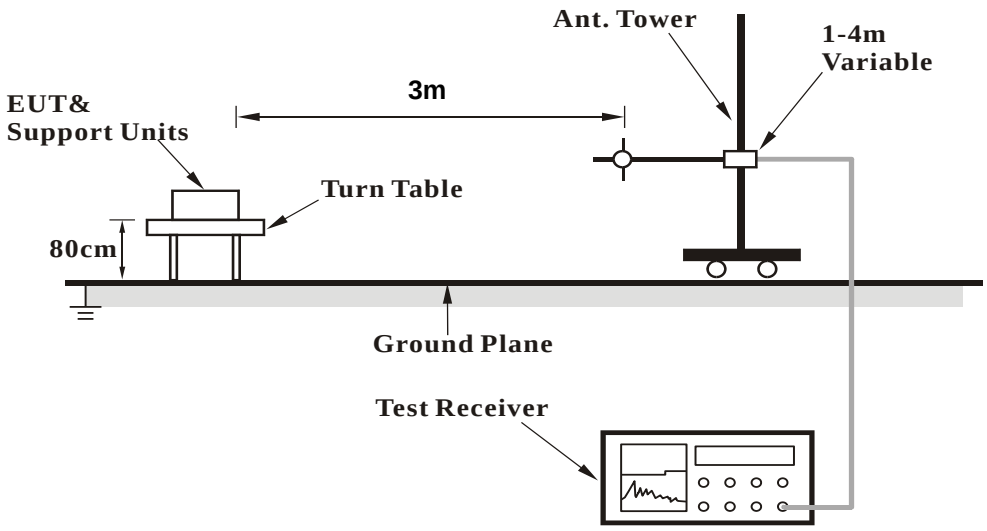
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 Deviation from Test Standard

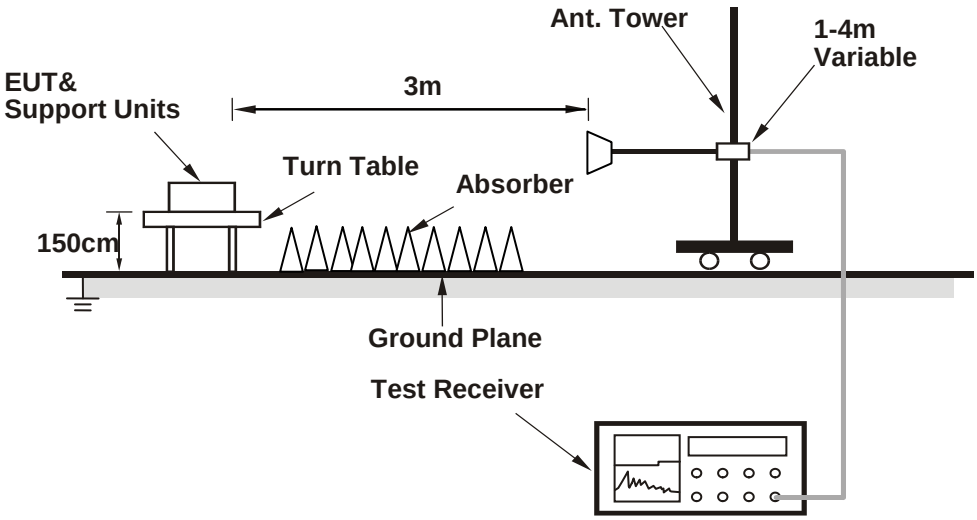
No deviation.

4.7.4 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).

4.7.5 Test Results

WCDMA:

Low Channel

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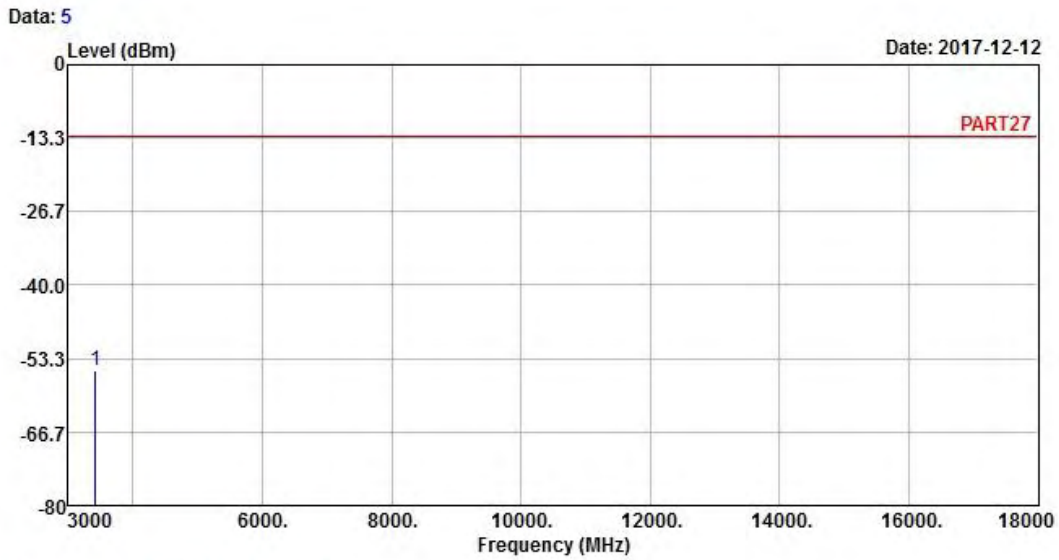

Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remark : WCDMA Band 4 Link_L-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3424.80	-55.63	-46.54	-13.00	-42.63	-9.09	Peak

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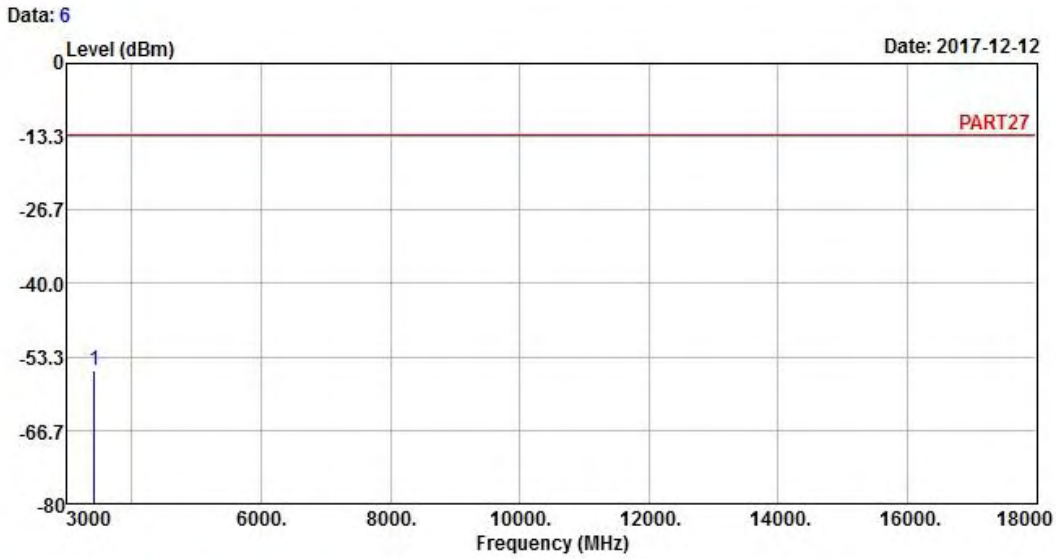
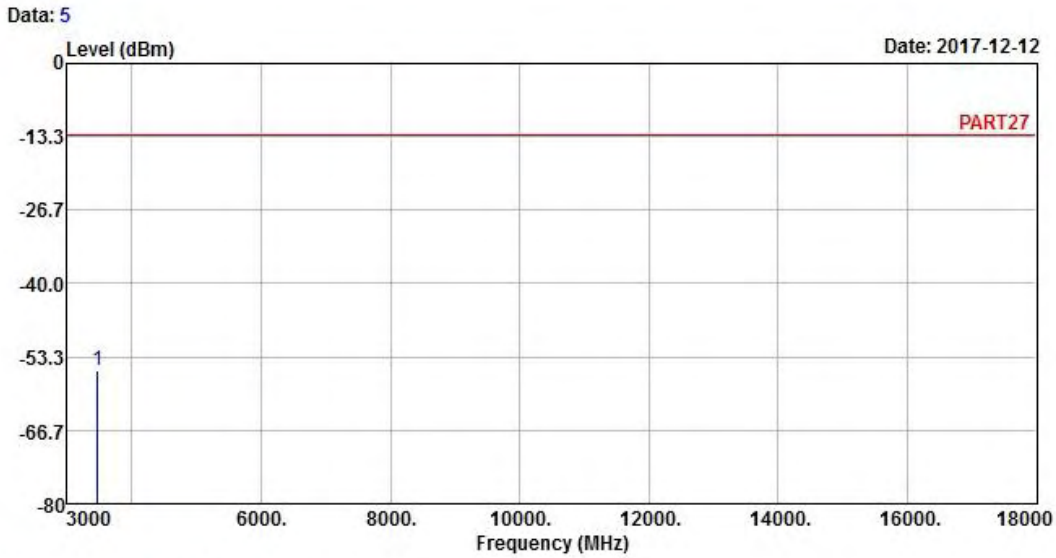


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remark : WCDMA Band 4 Link_L-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3424.80	-55.67	-46.58	-13.00	-42.67	-9.09	Peak

Middle Channel

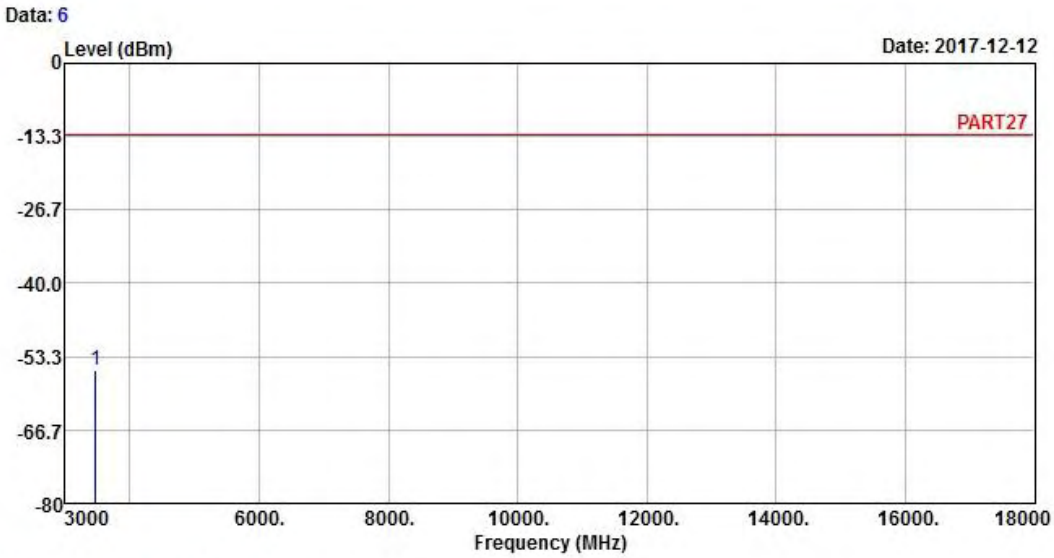
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remark : WCDMA Band 4 Link_M-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3465.20	-55.70	-46.79	-13.00	-42.70	-8.91	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remark : WCDMA Band 4 Link_M-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3465.20	-55.89	-46.98	-13.00	-42.89	-8.91	Peak

High Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

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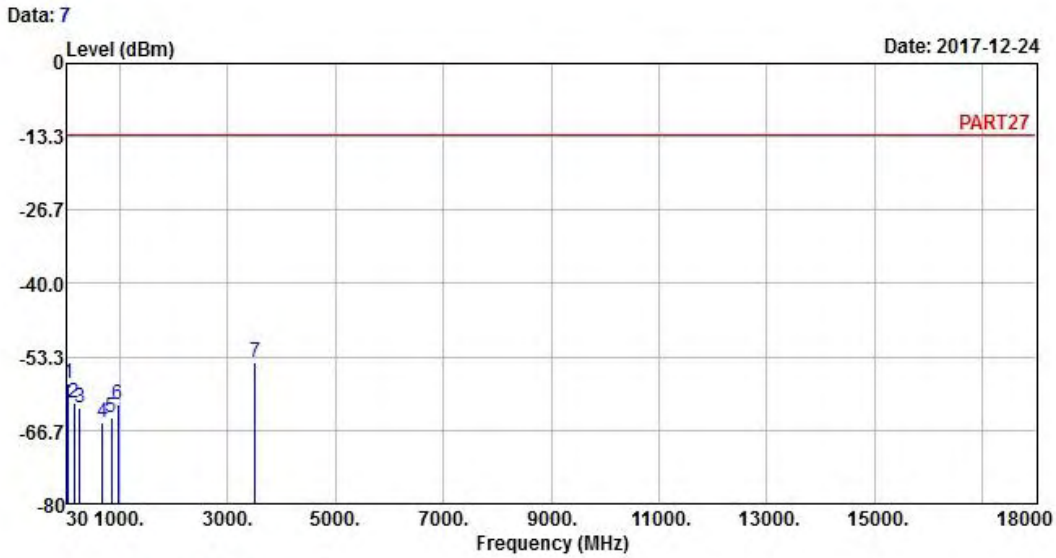

Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remark : WCDMA Band 4 Link_H-CH
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-58.16	-57.22	-13.00	-45.16	-0.94	Peak
2	160.95	-61.57	-56.66	-13.00	-48.57	-4.91	Peak
3	256.01	-62.69	-56.58	-13.00	-49.69	-6.11	Peak
4	677.96	-65.19	-64.74	-13.00	-52.19	-0.45	Peak
5	841.89	-64.23	-64.59	-13.00	-51.23	0.36	Peak
6	968.96	-62.12	-64.60	-13.00	-49.12	2.48	Peak
7 pp	3505.20	-54.30	-46.19	-13.00	-41.30	-8.11	Peak

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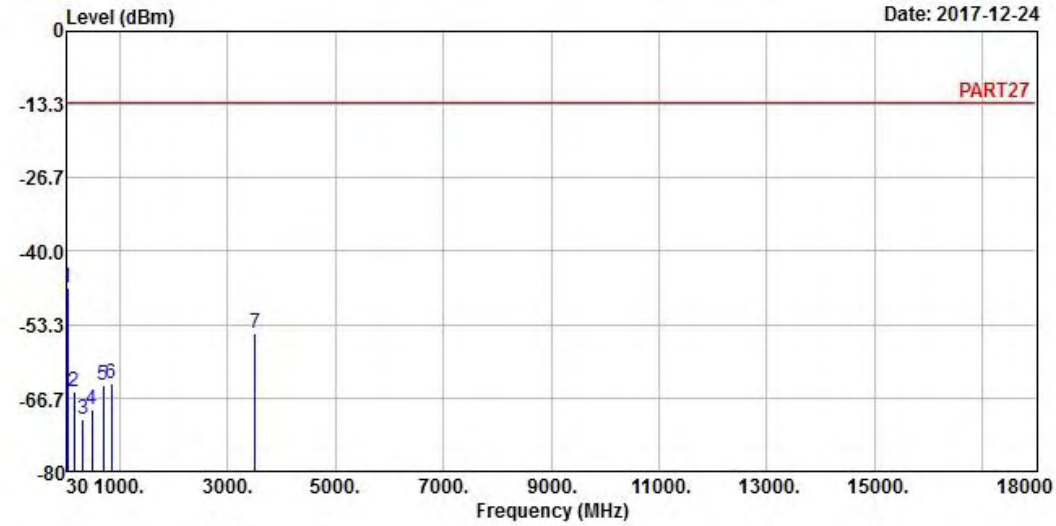
Data: 8



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remark : WCDMA Band 4 Link_H-CH
Tested by: Getaz Yang

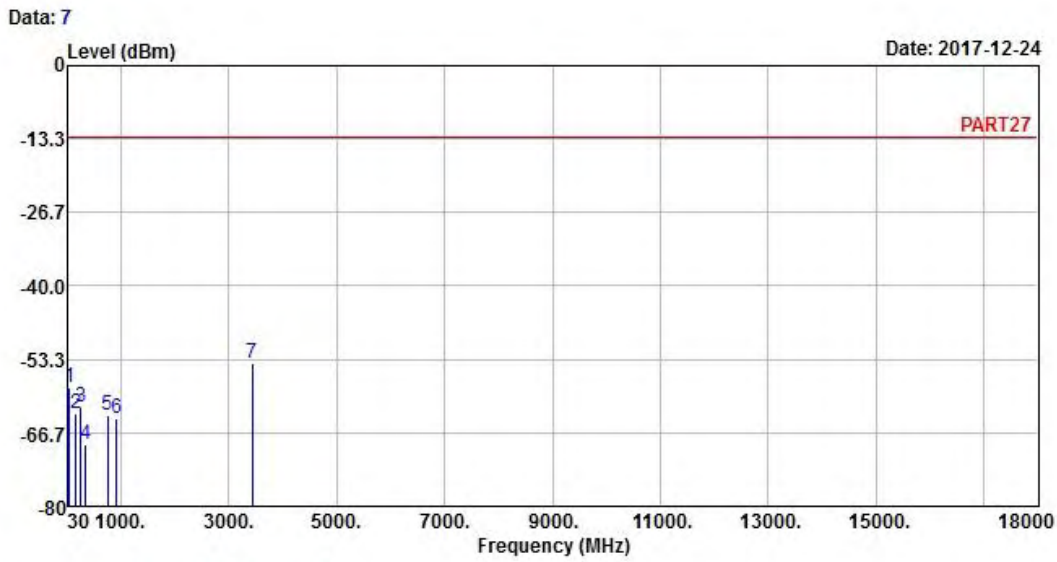
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	41.64	-46.54	-46.13	-13.00	-33.54	-0.41	Peak
2	160.95	-65.64	-60.73	-13.00	-52.64	-4.91	Peak
3	325.85	-70.49	-63.88	-13.00	-57.49	-6.61	Peak
4	489.78	-68.79	-63.98	-13.00	-55.79	-4.81	Peak
5	690.57	-64.38	-64.13	-13.00	-51.38	-0.25	Peak
6	852.56	-63.96	-64.27	-13.00	-50.96	0.31	Peak
7	3505.20	-55.00	-46.89	-13.00	-42.00	-8.11	Peak

LTE Band 4

Channel Bandwidth: 20 MHz / QPSK

Low Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-58.33	-57.39	-13.00	-45.33	-0.94	Peak
2	166.77	-63.12	-57.80	-13.00	-50.12	-5.32	Peak
3	255.04	-62.06	-55.97	-13.00	-49.06	-6.09	Peak
4	355.92	-68.65	-62.45	-13.00	-55.65	-6.20	Peak
5	749.74	-63.51	-64.39	-13.00	-50.51	0.88	Peak
6	915.61	-63.92	-64.88	-13.00	-50.92	0.96	Peak
7 pp	3440.00	-54.03	-45.03	-13.00	-41.03	-9.00	Peak

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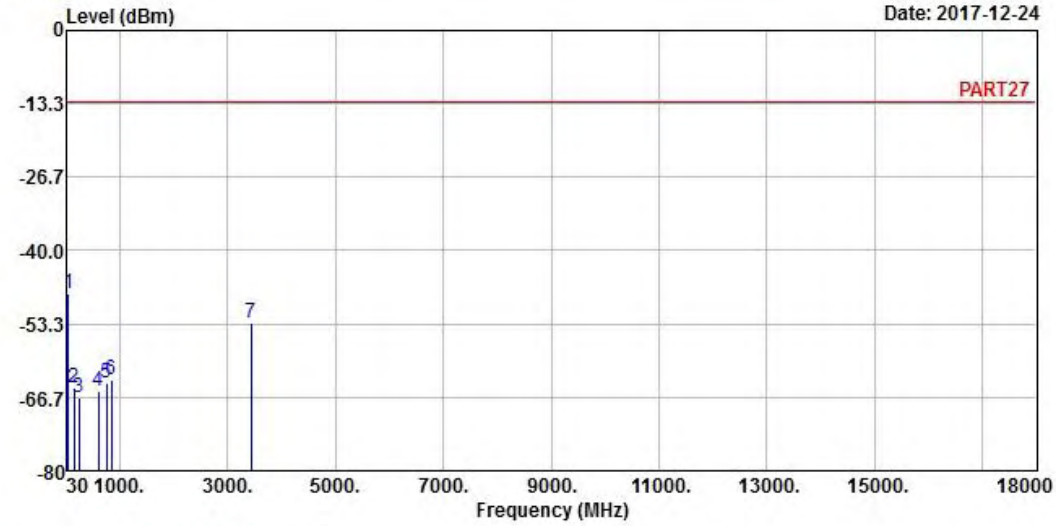
Data: 8



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	43.58	-47.87	-46.40	-13.00	-34.87	-1.47	Peak
2	160.95	-64.82	-59.91	-13.00	-51.82	-4.91	Peak
3	248.25	-66.66	-60.59	-13.00	-53.66	-6.07	Peak
4	601.33	-65.46	-64.70	-13.00	-52.46	-0.76	Peak
5	762.35	-64.01	-64.85	-13.00	-51.01	0.84	Peak
6	853.53	-63.57	-63.88	-13.00	-50.57	0.31	Peak
7	3440.00	-53.19	-44.19	-13.00	-40.19	-9.00	Peak

Middle Channel

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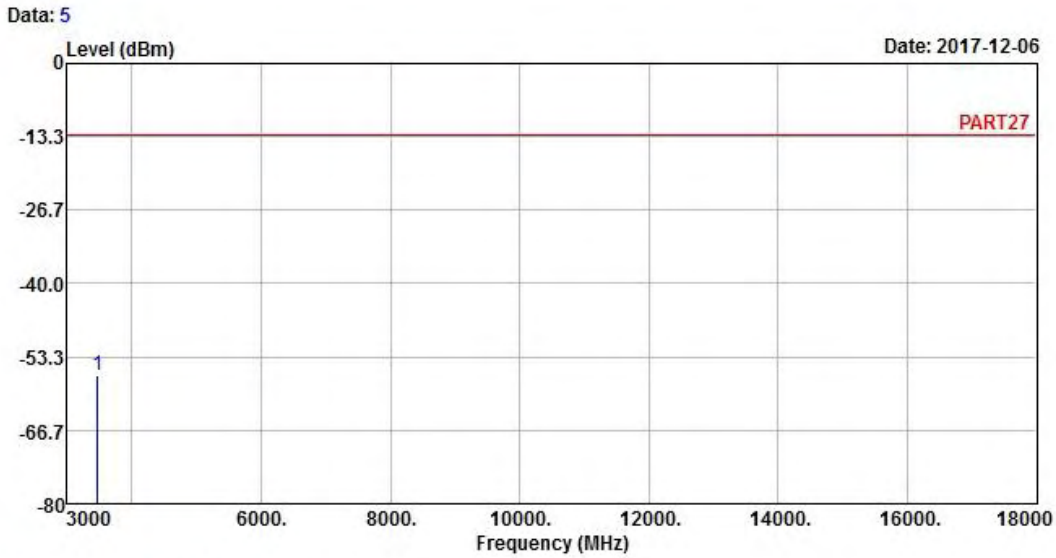
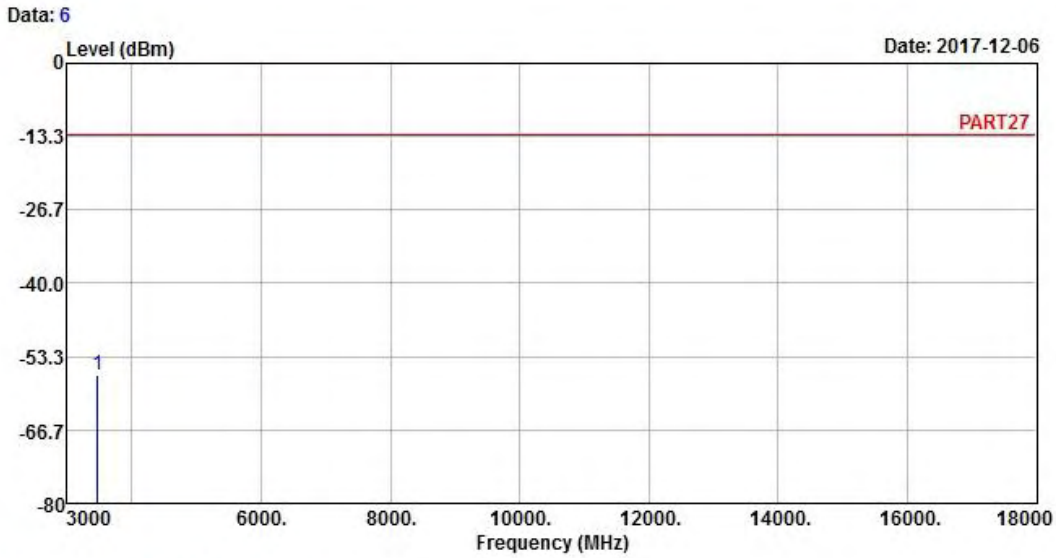


Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3465.00	-56.68	-47.77	-13.00	-43.68	-8.91	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

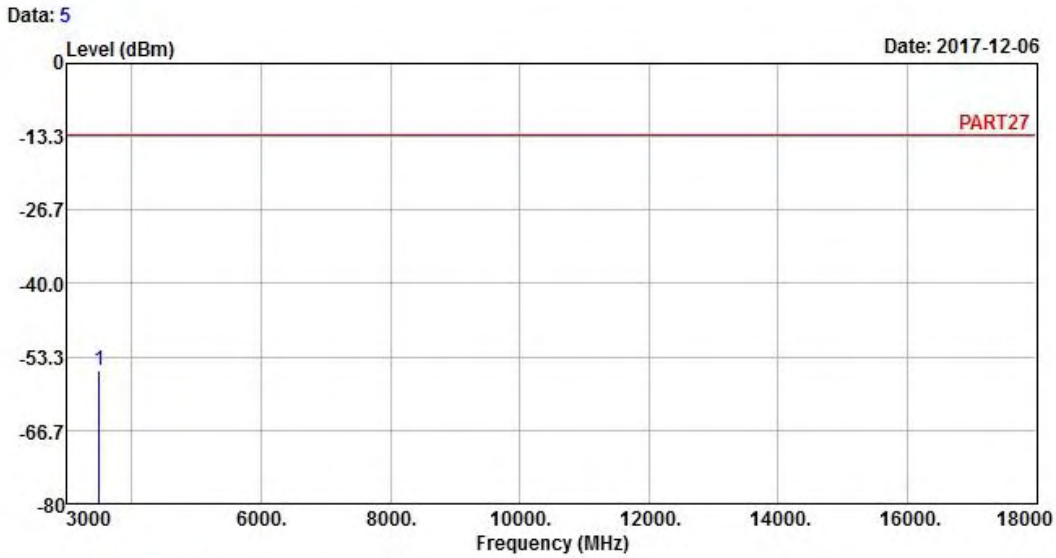


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3465.00	-56.58	-47.67	-13.00	-43.58	-8.91	Peak

High Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3490.00	-55.88	-47.37	-13.00	-42.88	-8.51	Peak

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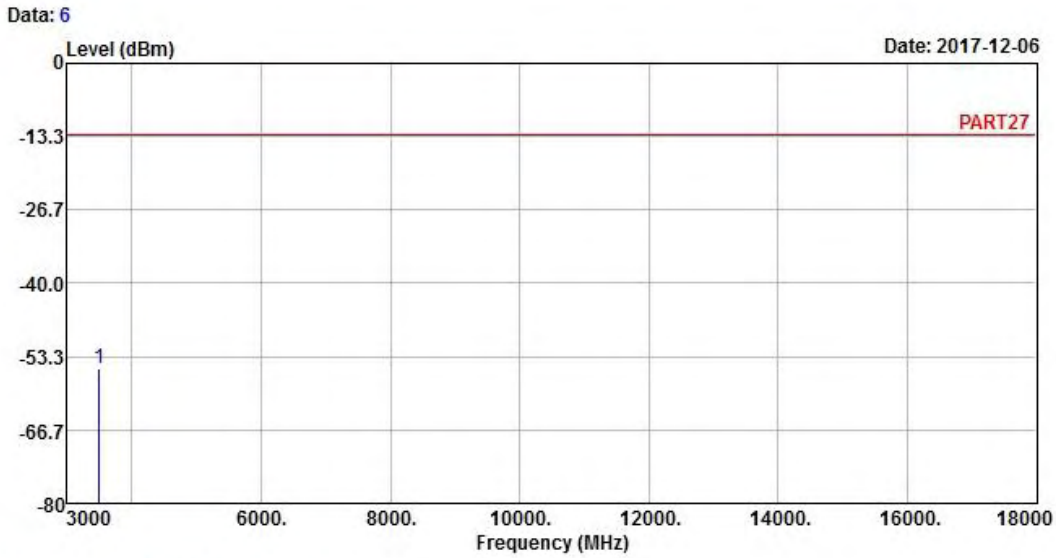


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 4 QPSK_20M Link
Tested by: Jisyong Wang

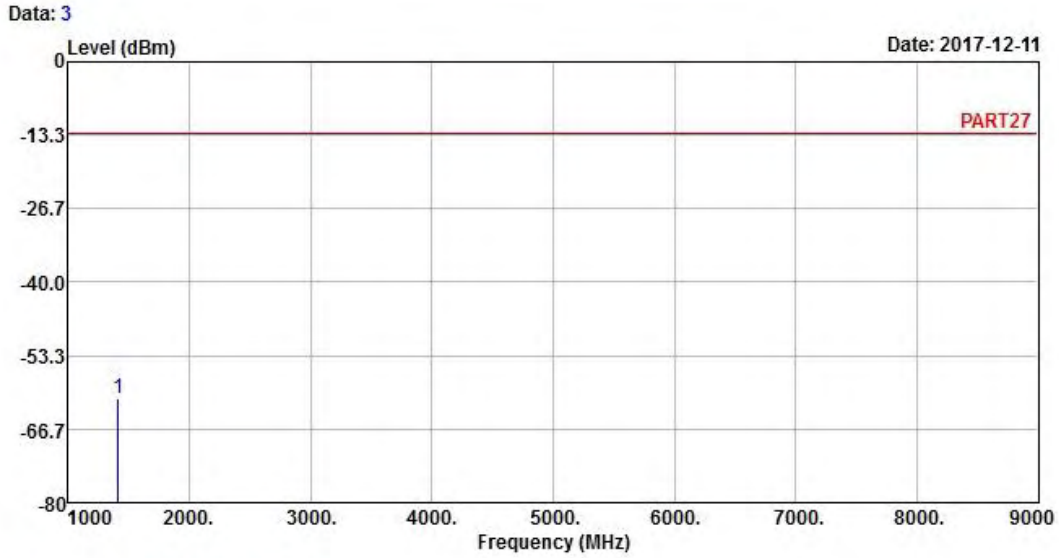
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	3490.00	-55.46	-46.95	-13.00	-42.46	-8.51	Peak

LTE Band 12

Channel Bandwidth: 10 MHz / QPSK

Low Channel

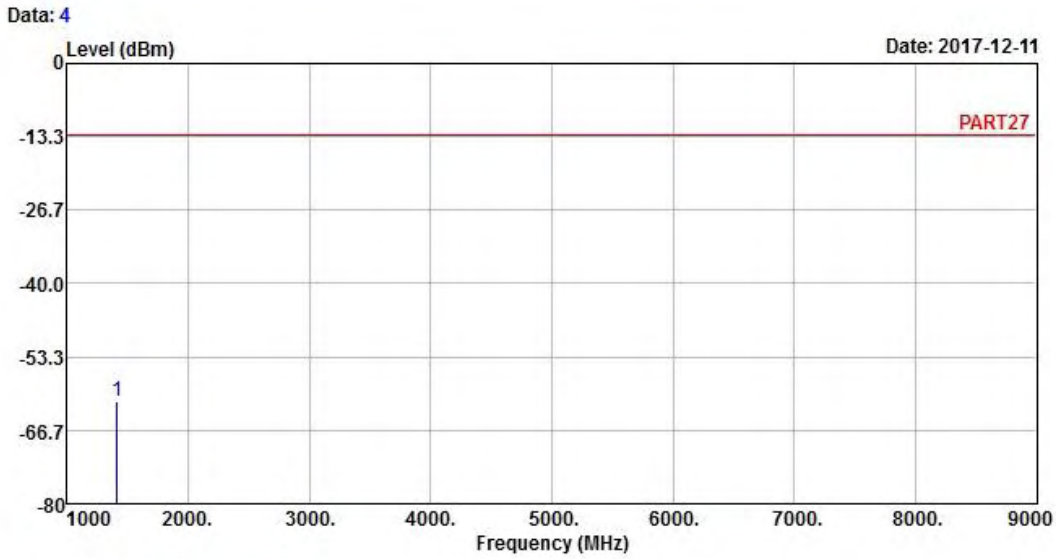
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M _L-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1408.00	-61.04	-46.70	-13.00	-48.04	-14.34	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

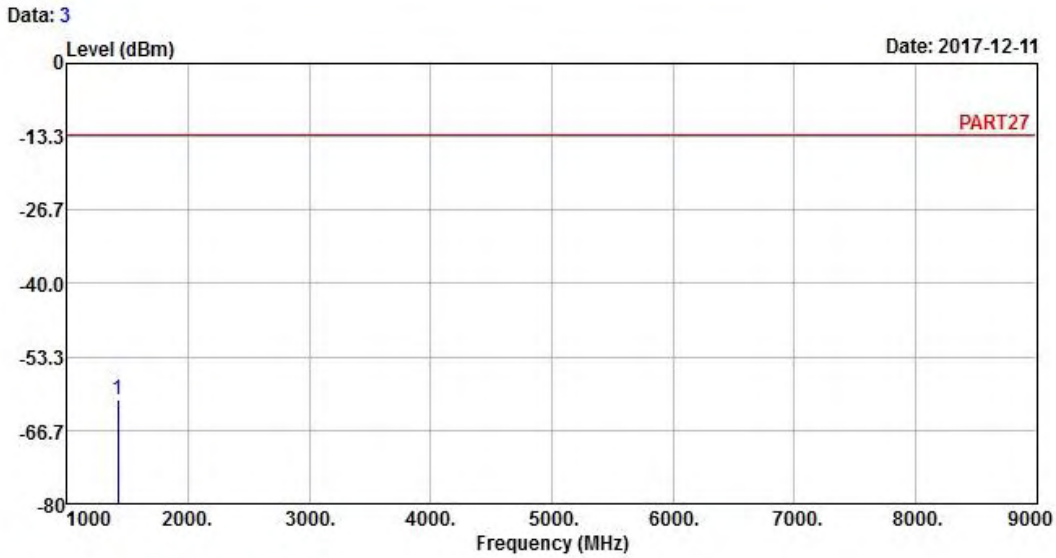


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 12 QPSK_10M _L-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1408.00	-61.49	-47.15	-13.00	-48.49	-14.34	Peak

Middle Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-61.21	-46.87	-13.00	-48.21	-14.34	Peak

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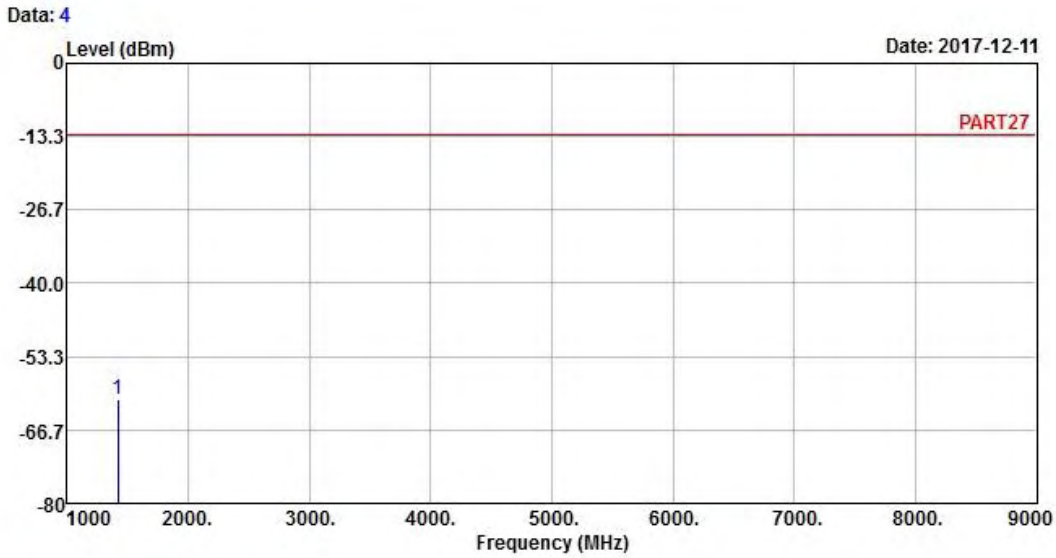

Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 12 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1415.00	-61.04	-46.70	-13.00	-48.04	-14.34	Peak

High Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

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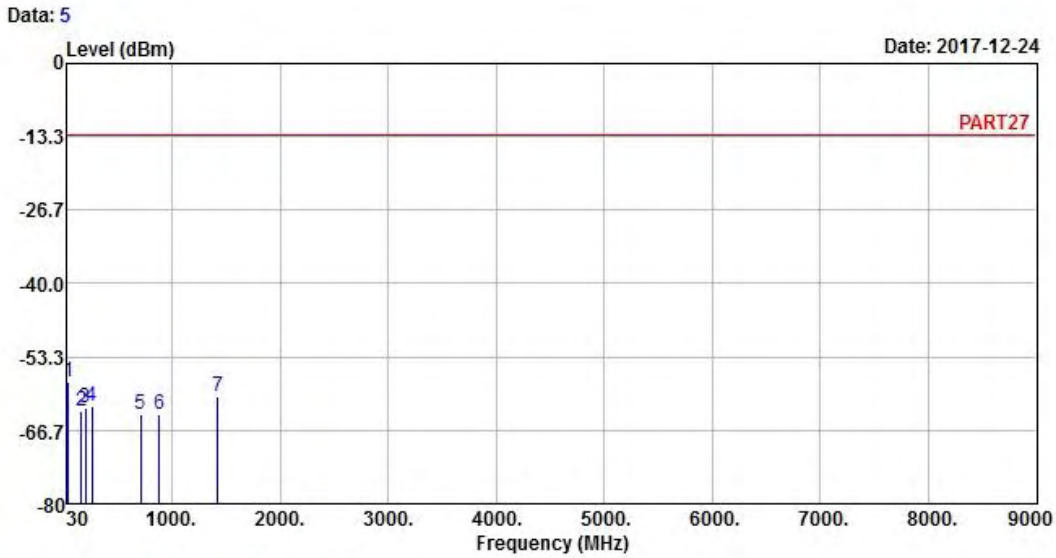

Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 12 QPSK_10M _H-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-57.93	-56.99	-13.00	-44.93	-0.94	Peak
2	161.92	-63.17	-58.19	-13.00	-50.17	-4.98	Peak
3	197.81	-62.59	-54.76	-13.00	-49.59	-7.83	Peak
4	255.04	-62.36	-56.27	-13.00	-49.36	-6.09	Peak
5	706.09	-63.71	-63.73	-13.00	-50.71	0.02	Peak
6	883.60	-63.80	-64.28	-13.00	-50.80	0.48	Peak
7	1422.00	-60.58	-46.24	-13.00	-47.58	-14.34	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

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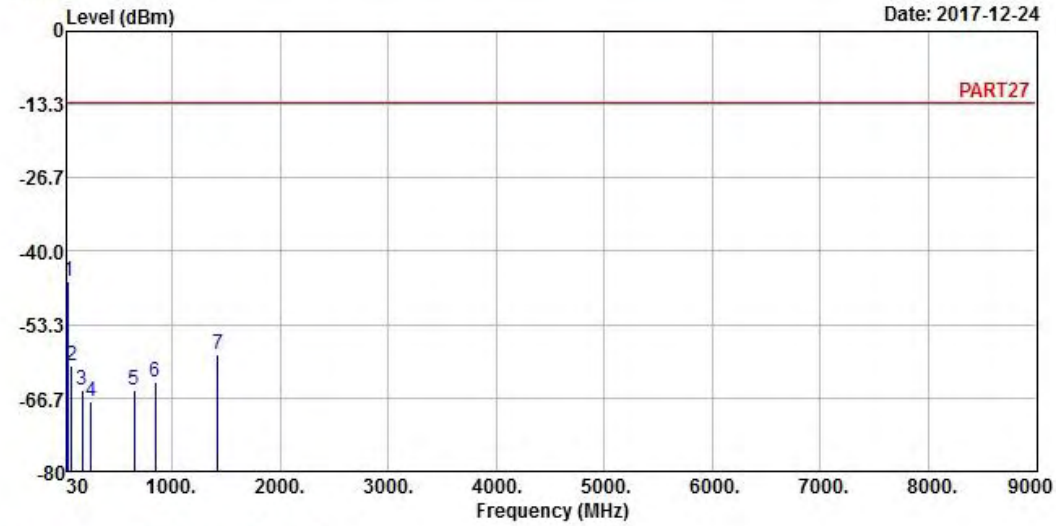
Data: 6

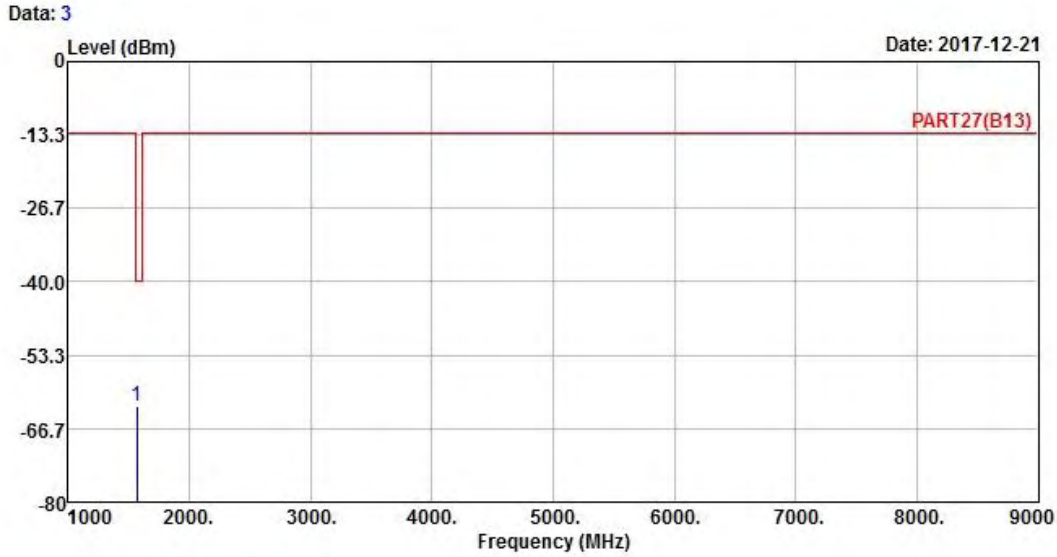


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 12 QPSK_10M _H-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-45.52	-44.58	-13.00	-32.52	-0.94	Peak
2	68.80	-60.75	-52.43	-13.00	-47.75	-8.32	Peak
3	169.68	-65.34	-59.81	-13.00	-52.34	-5.53	Peak
4	249.22	-67.38	-61.35	-13.00	-54.38	-6.03	Peak
5	646.92	-65.30	-64.42	-13.00	-52.30	-0.88	Peak
6	841.89	-63.84	-64.20	-13.00	-50.84	0.36	Peak
7	1422.00	-58.62	-44.28	-13.00	-45.62	-14.34	Peak

LTE Band 13
Channel Bandwidth: 10 MHz / QPSK

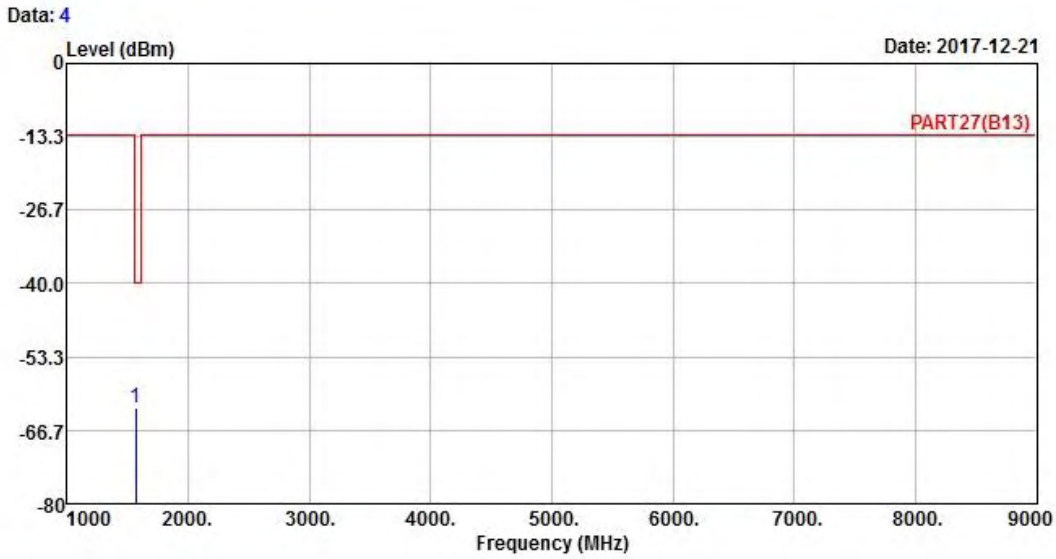
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27(B13) HORIZONTAL
Remak : LTE Band 13 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1564.00	-62.60	-47.58	-40.00	-22.60	-15.02	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

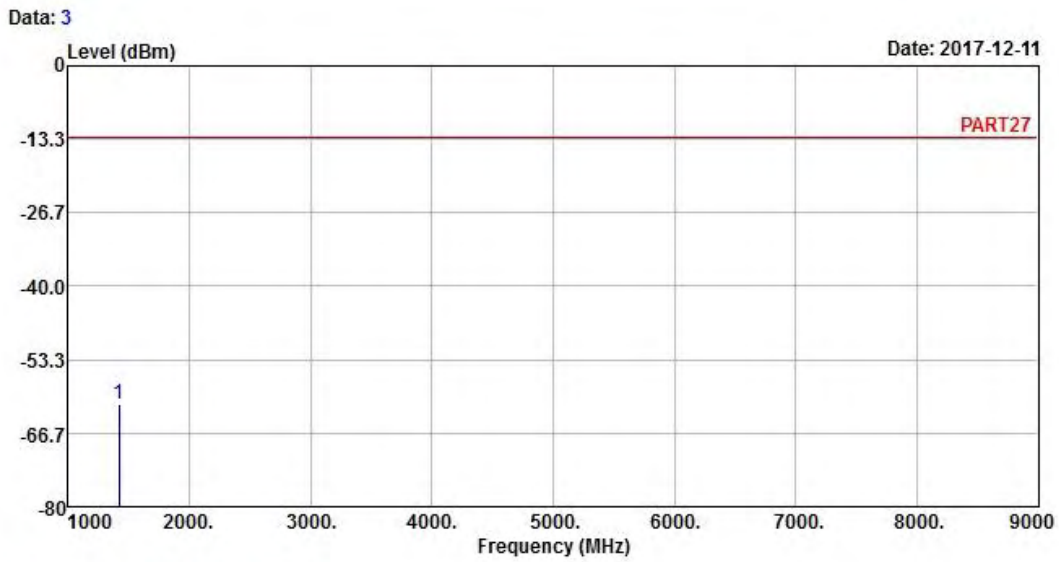


Site : 966 Chamber 5
Condition: PART27(B13) VERTICAL
Remak : LTE Band 13 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1564.00	-62.54	-47.52	-40.00	-22.54	-15.02	Peak

LTE Band 17
Channel Bandwidth: 10 MHz / QPSK
Low Channel

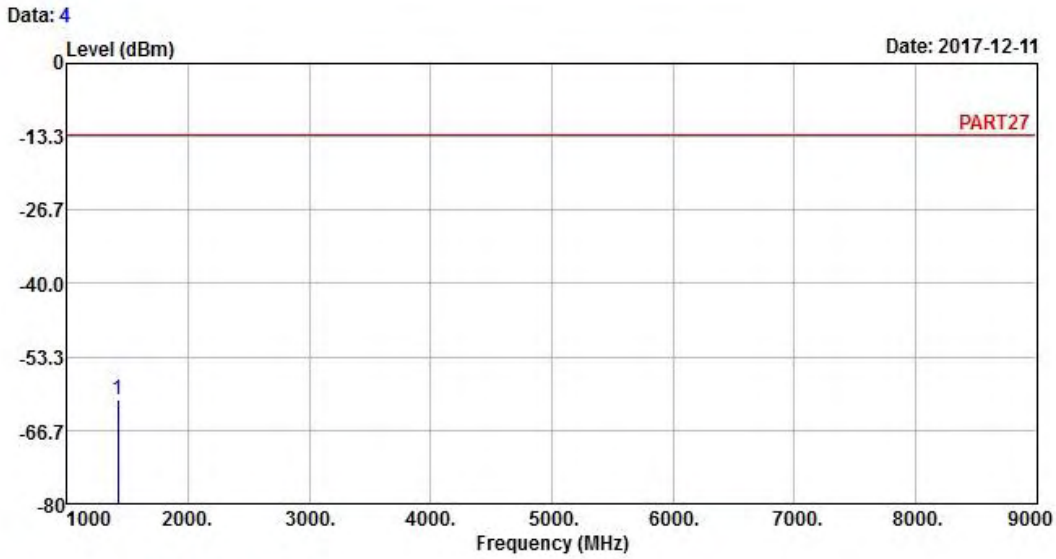
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 17 QPSK_10M _L-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1418.00	-61.43	-47.09	-13.00	-48.43	-14.34	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

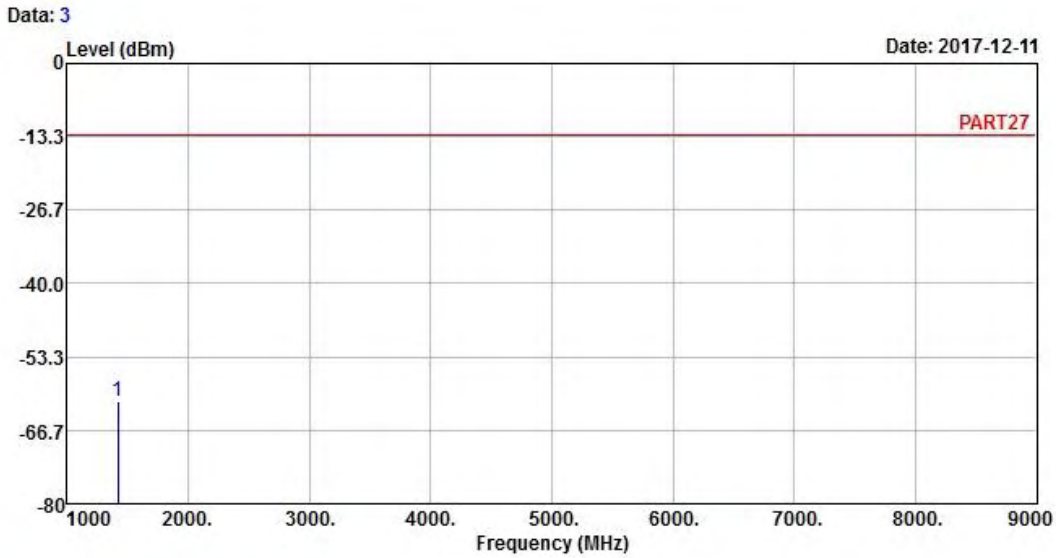


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 17 QPSK_10M _L-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1418.00	-61.12	-46.78	-13.00	-48.12	-14.34	Peak

Middle Channel

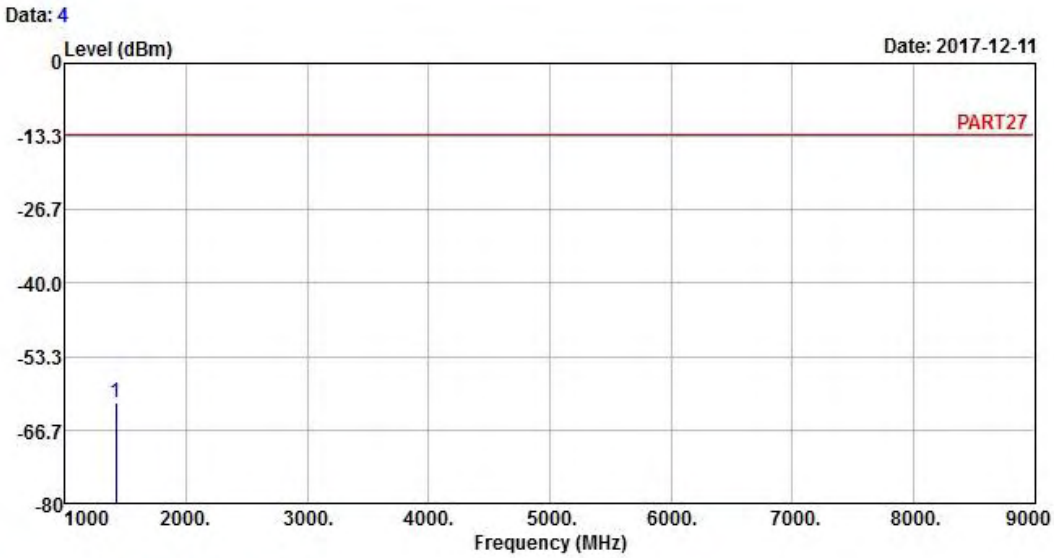
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 17 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1420.00	-61.32	-46.98	-13.00	-48.32	-14.34	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch

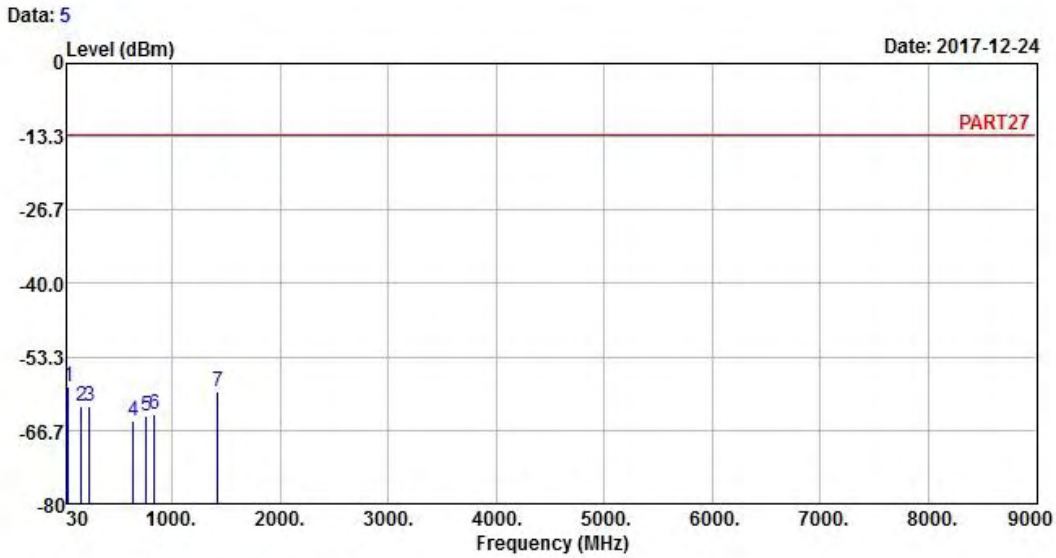


Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 17 QPSK_10M _M-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	1420.00	-61.61	-47.27	-13.00	-48.61	-14.34	Peak

High Channel

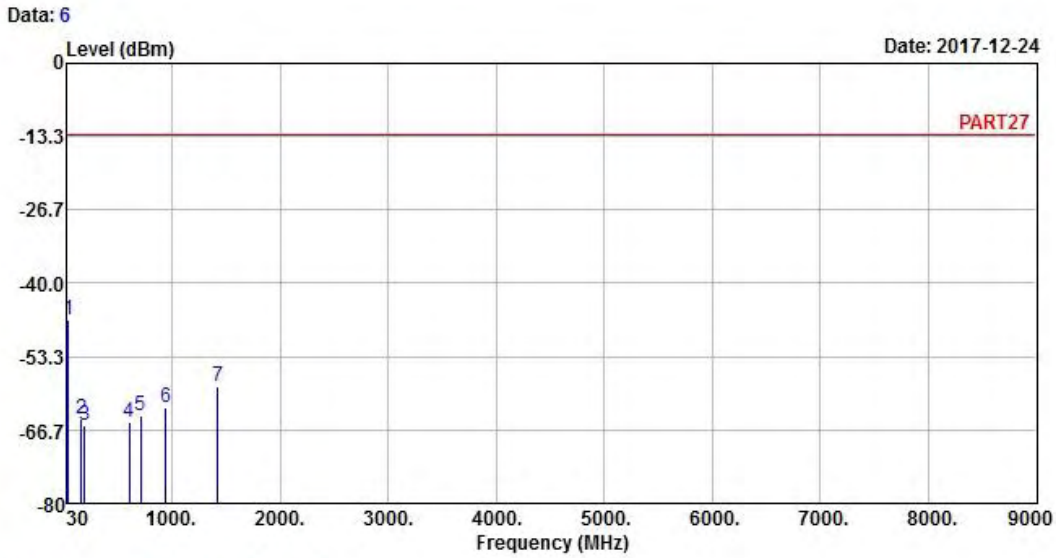
Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 HORIZONTAL
Remak : LTE Band 17 QPSK_10M _H-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	42.61	-58.70	-57.76	-13.00	-45.70	-0.94	Peak
2	160.95	-62.25	-57.34	-13.00	-49.25	-4.91	Peak
3	234.67	-62.35	-55.73	-13.00	-49.35	-6.62	Peak
4	639.16	-64.97	-64.11	-13.00	-51.97	-0.86	Peak
5	759.44	-64.12	-64.97	-13.00	-51.12	0.85	Peak
6	833.16	-63.65	-64.09	-13.00	-50.65	0.44	Peak
7	1422.00	-59.53	-45.19	-13.00	-46.53	-14.34	Peak

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 Chamber 5
Condition: PART27 VERTICAL
Remak : LTE Band 17 QPSK_10M _H-CH
Tested by: Jisyong Wang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	41.64	-46.67	-46.26	-13.00	-33.67	-0.41	Peak
2	160.95	-64.59	-59.68	-13.00	-51.59	-4.91	Peak
3	189.08	-65.82	-58.70	-13.00	-52.82	-7.12	Peak
4	602.30	-65.26	-64.50	-13.00	-52.26	-0.76	Peak
5	711.91	-64.09	-64.22	-13.00	-51.09	0.13	Peak
6	944.71	-62.55	-64.23	-13.00	-49.55	1.68	Peak
7	1422.00	-58.84	-44.50	-13.00	-45.84	-14.34	Peak

5 Pictures of Test Arrangements

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

Appendix – Information on 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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Fax: 886-2-26051924

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Email: service.adt@tw.bureauveritas.com
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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