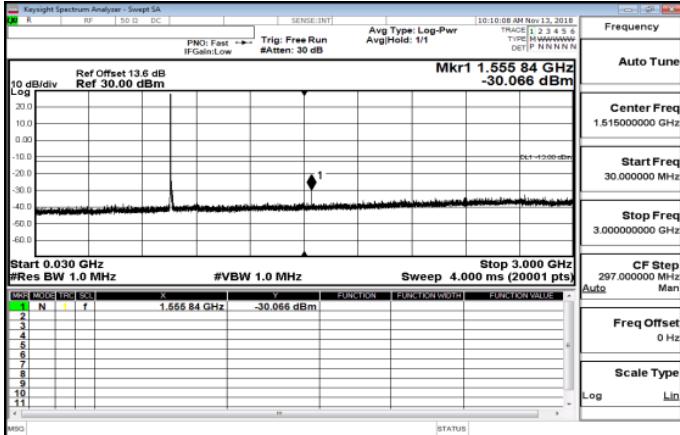
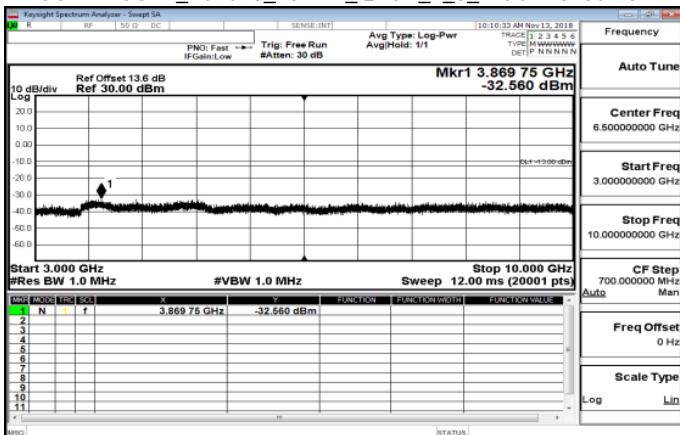


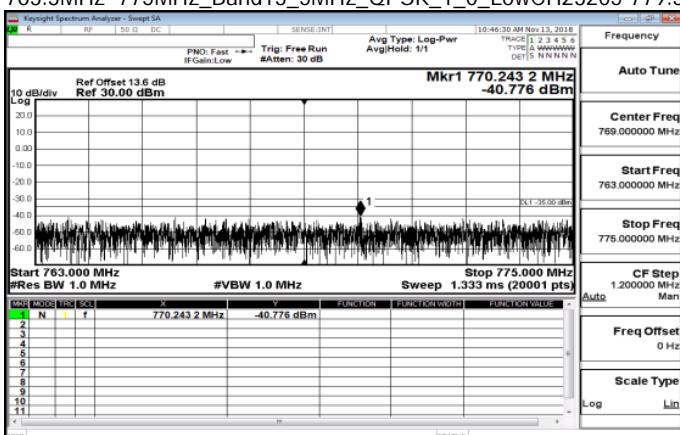
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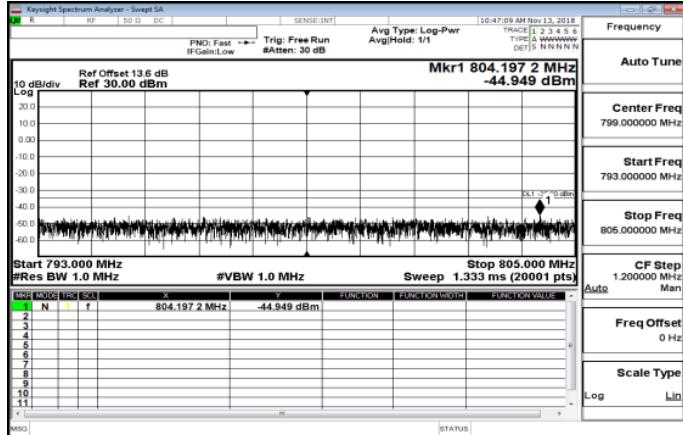
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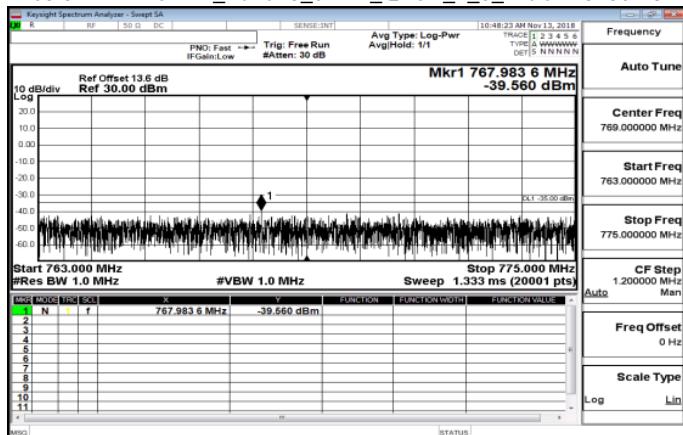
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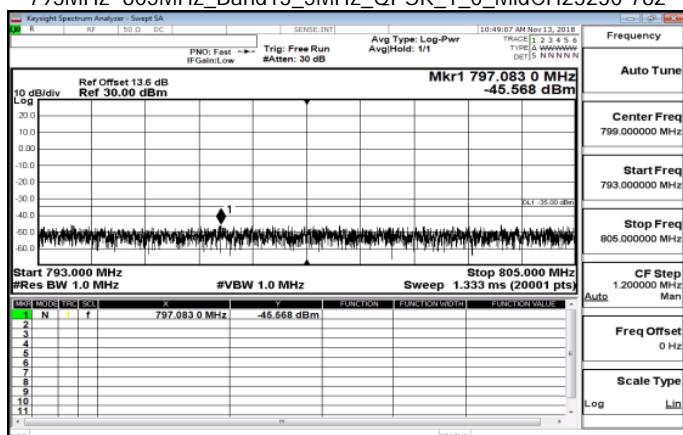
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793MHz~805MHz\_Band13\_5MHz\_QPSK\_1\_0\_MidCH23230-782



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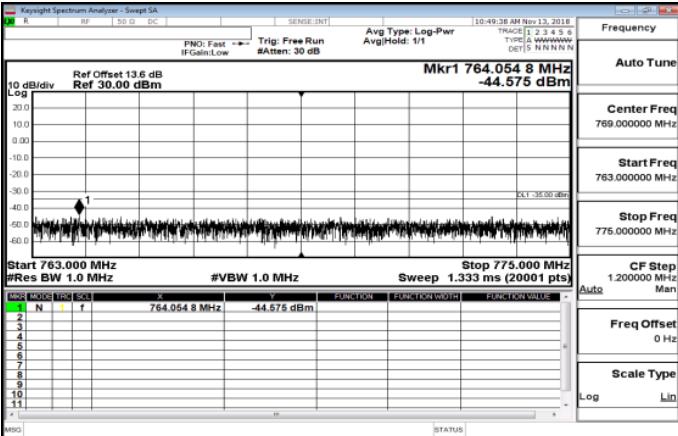
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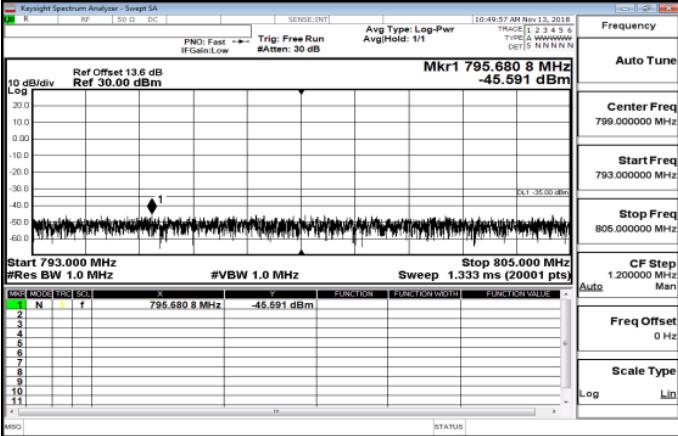
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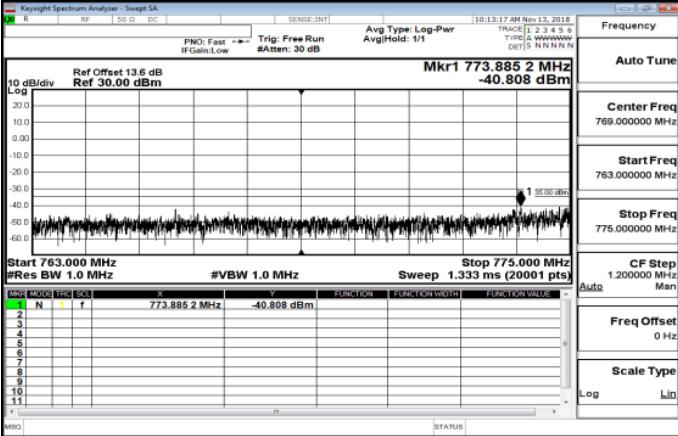
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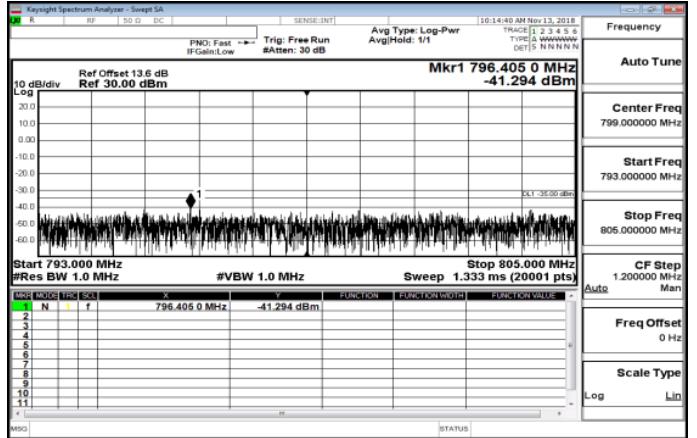
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793MHz~805MHz\_Band13\_10MHz\_QPSK\_1\_0\_MidCH23230-782



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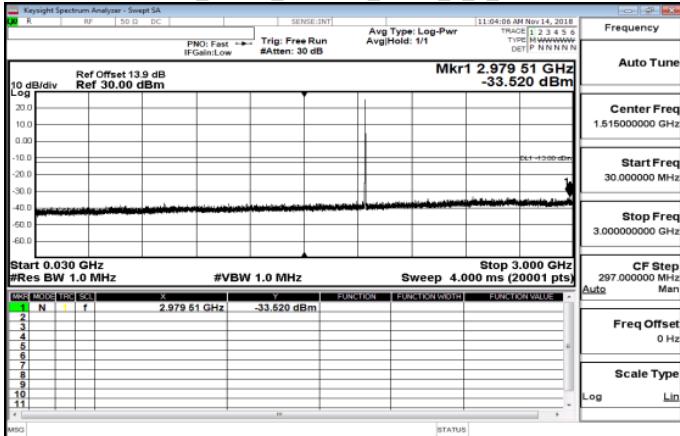
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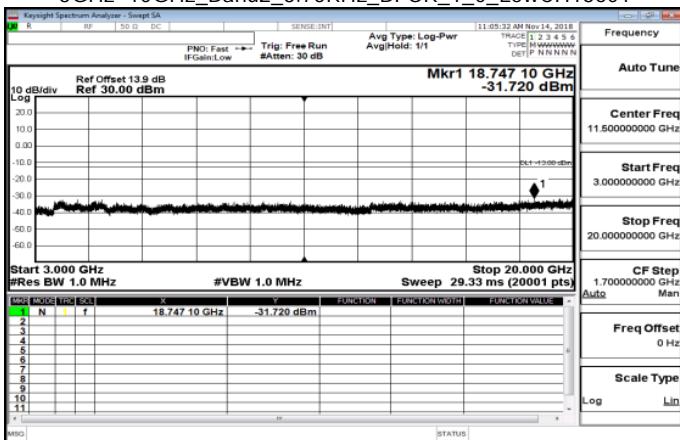
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NB-IOT Spurious Emission

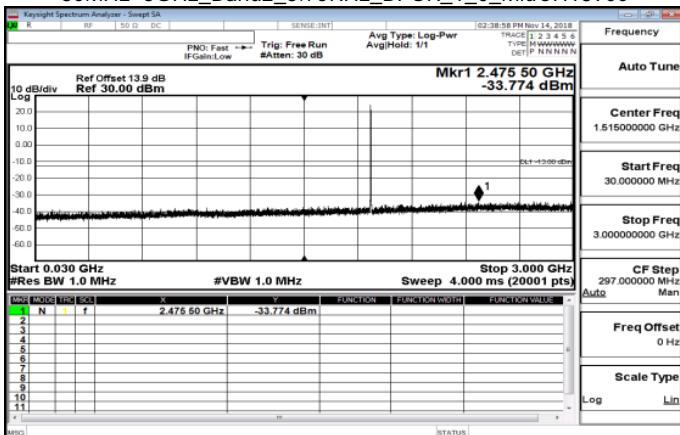
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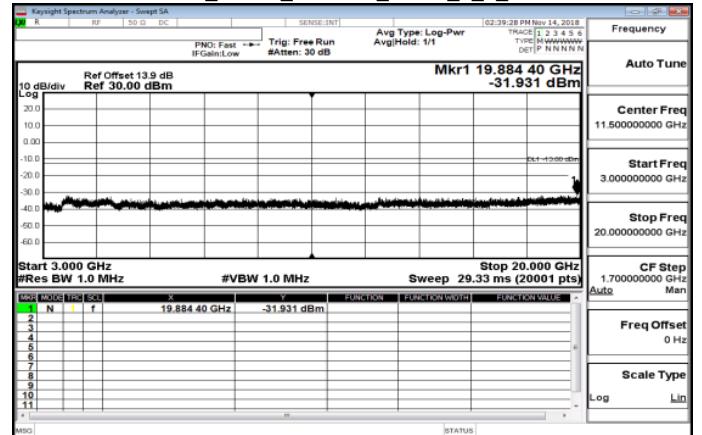
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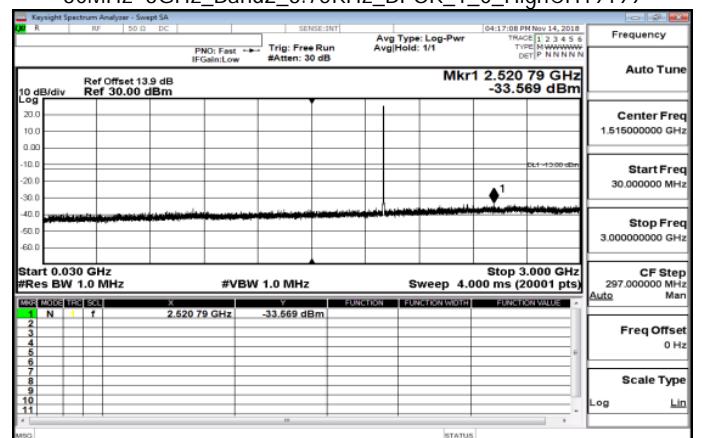
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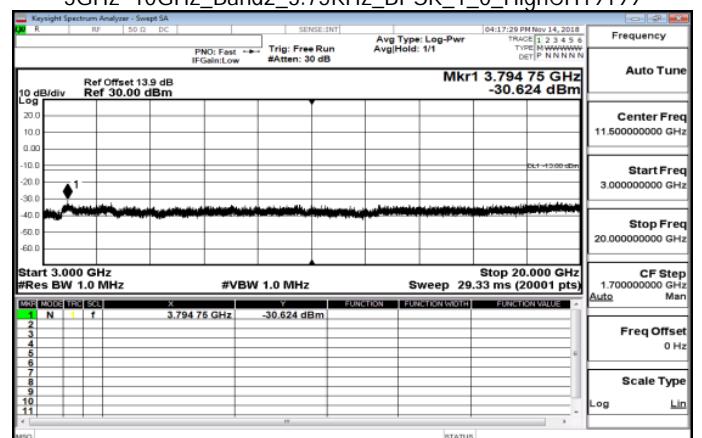
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3GHz~10GHz\_Band2\_3.75KHz\_BPSK\_1\_0\_HighCH19199



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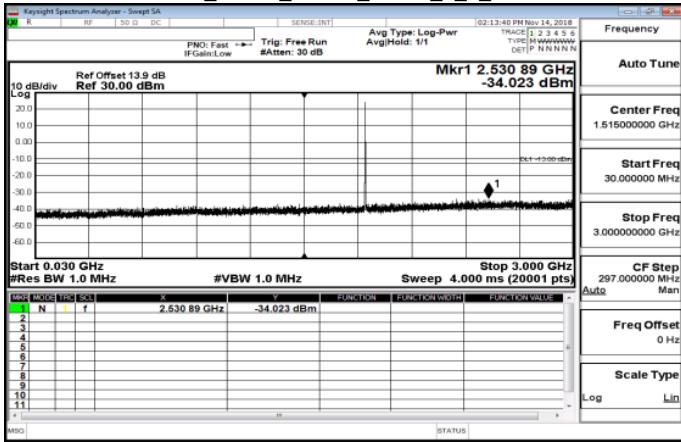
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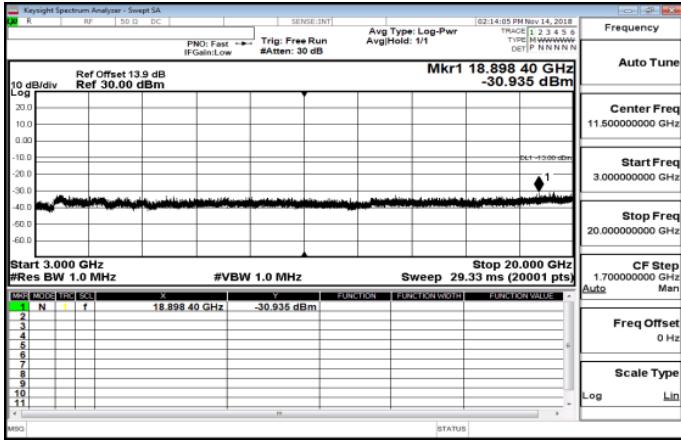
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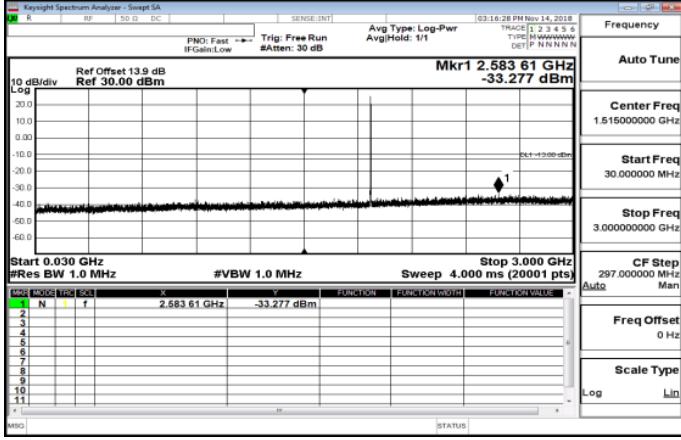
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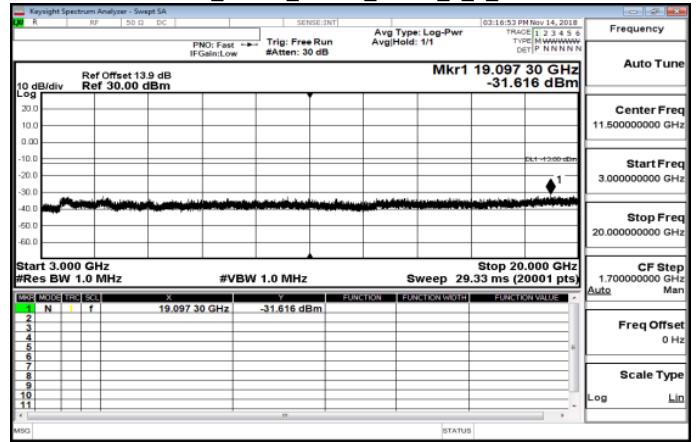
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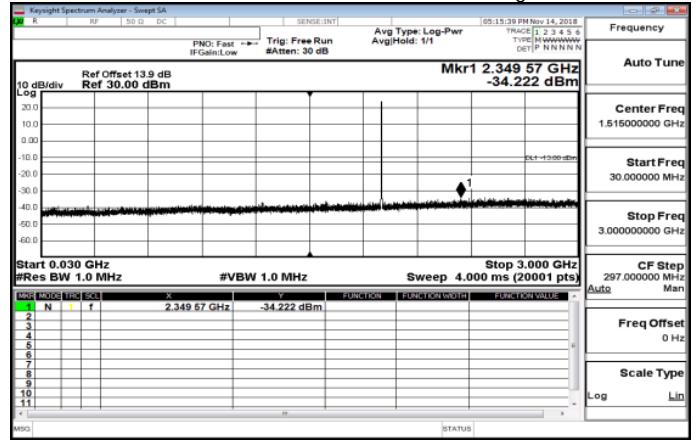
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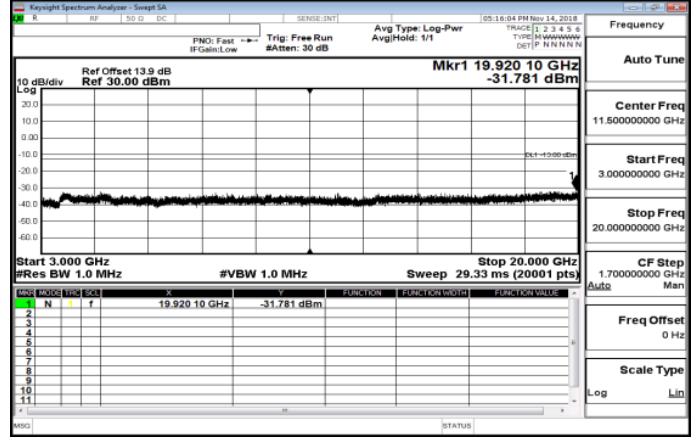
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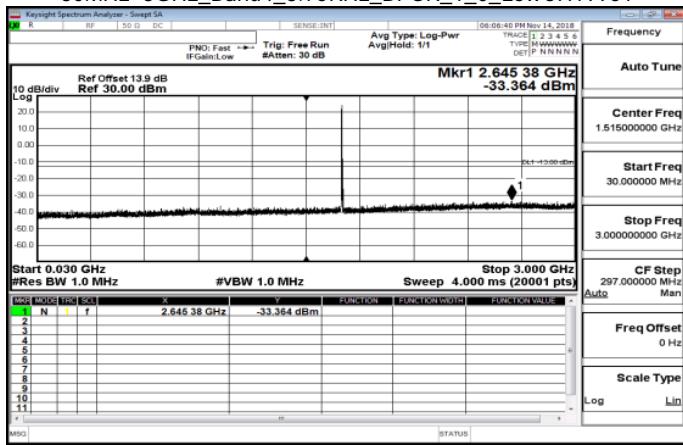
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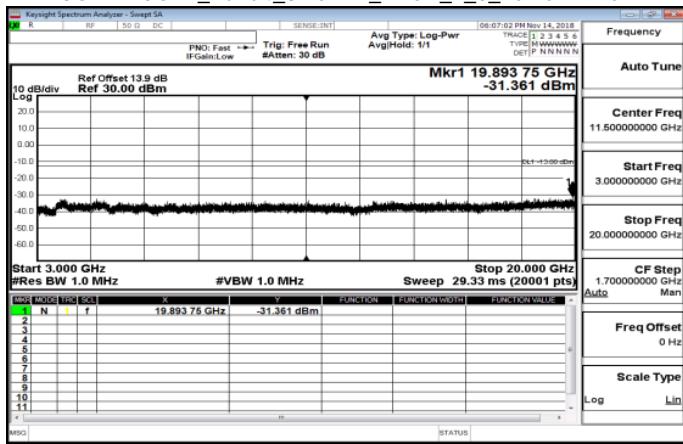
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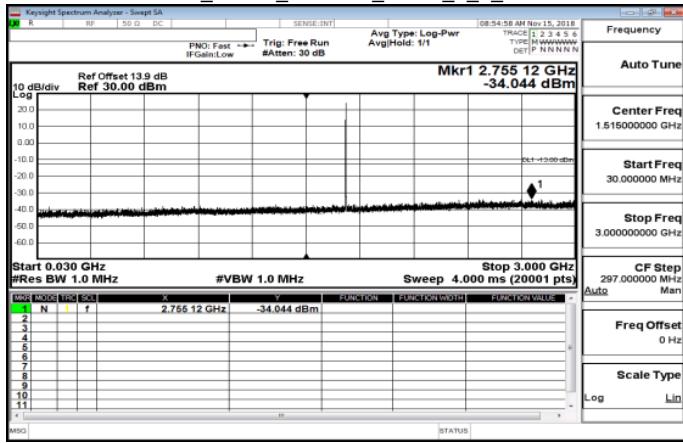
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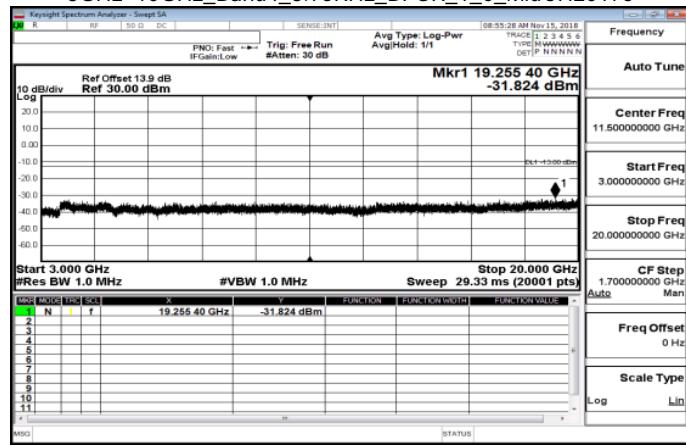
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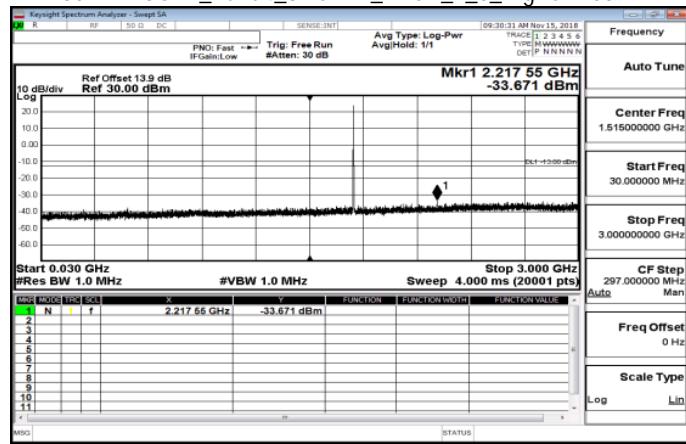
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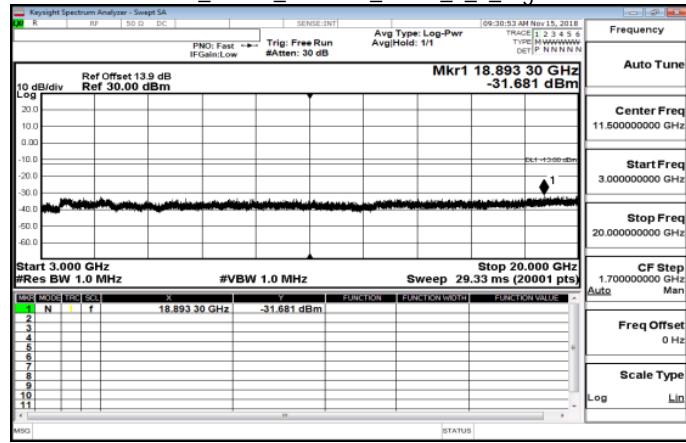
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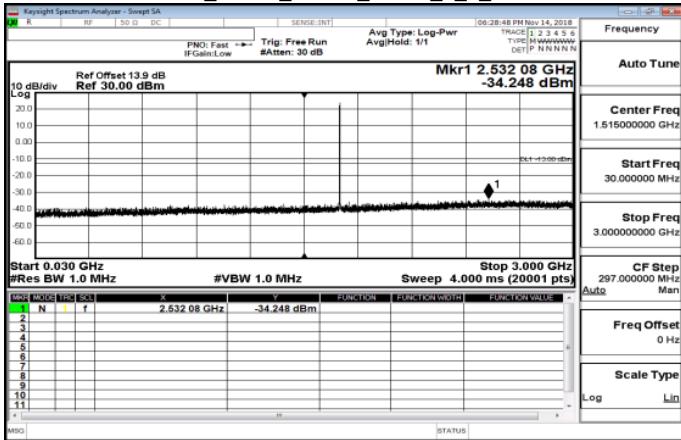
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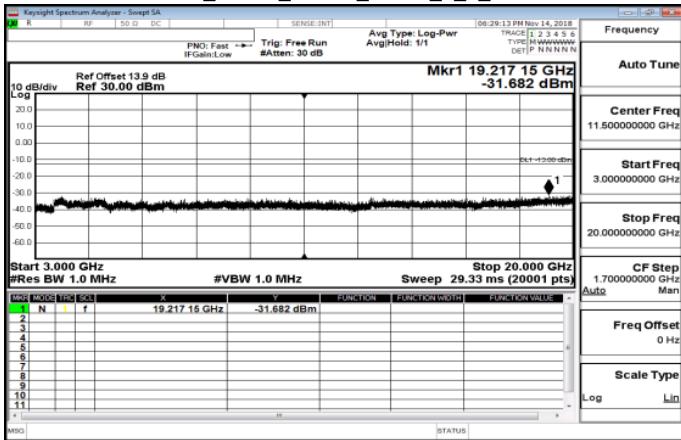
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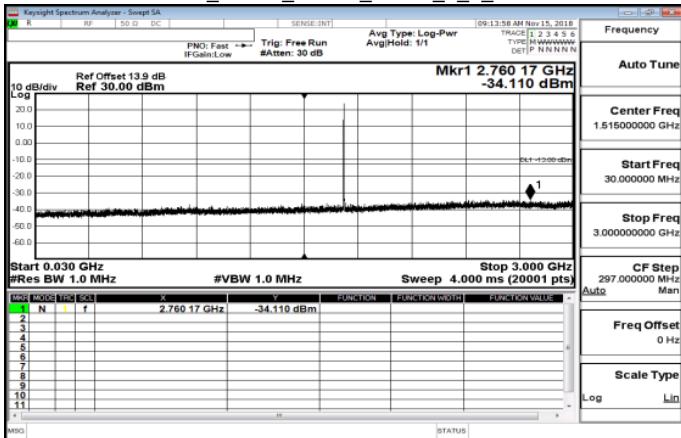
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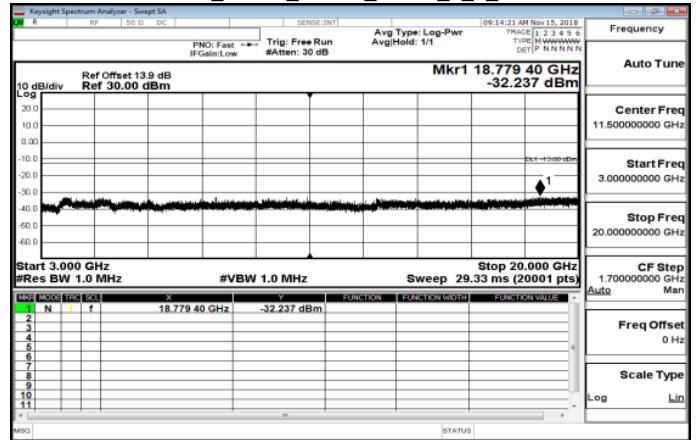
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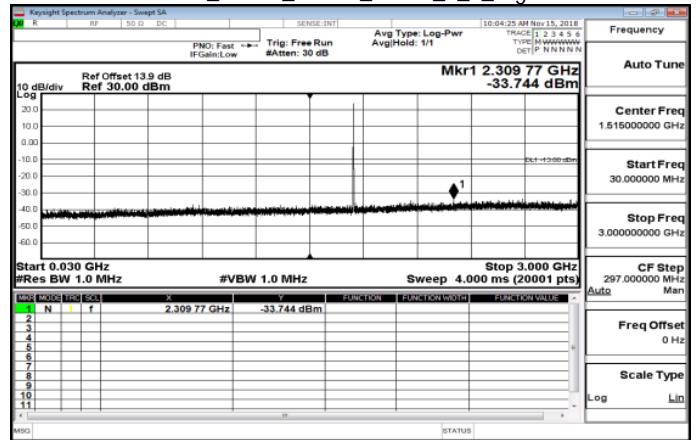
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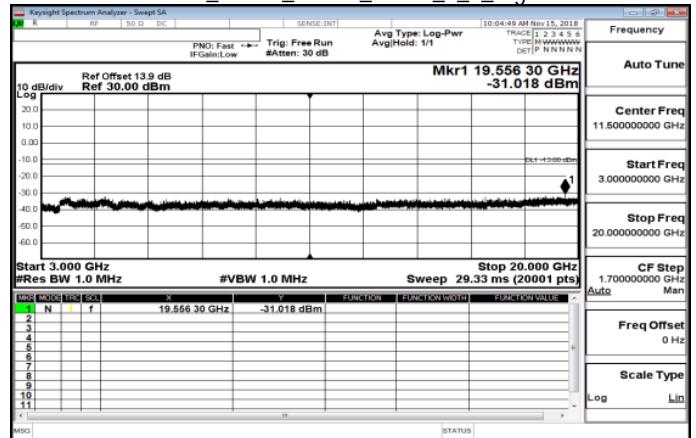
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3GHz~10GHz\_Band4\_15KHz\_QPSK\_1\_0\_HighCH20399



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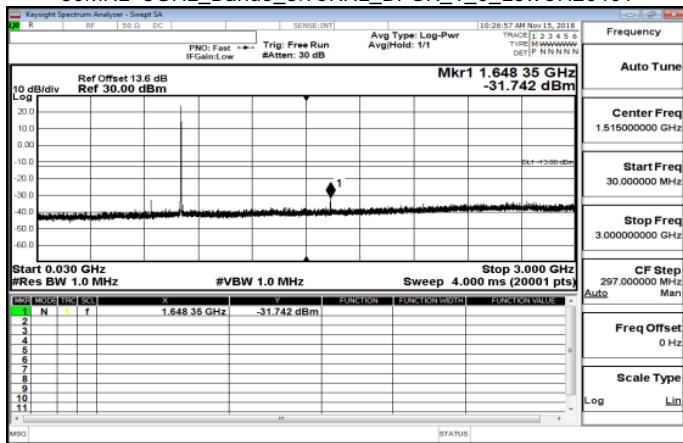
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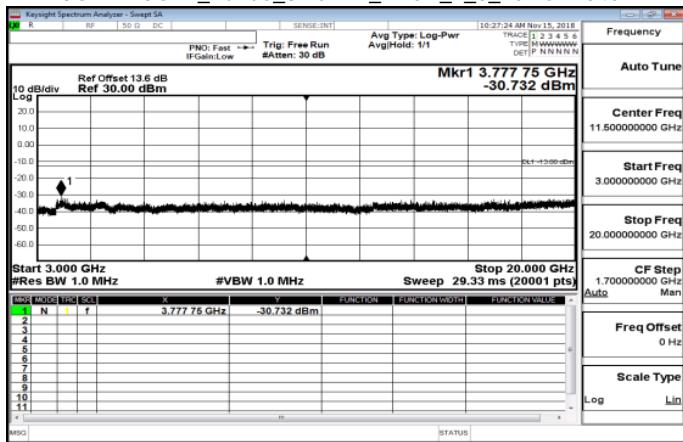
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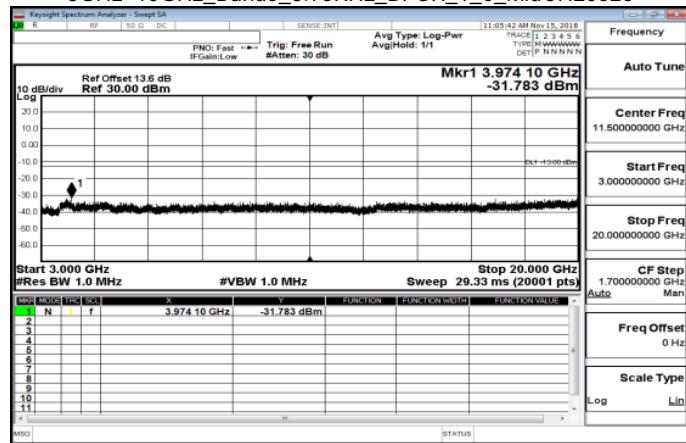
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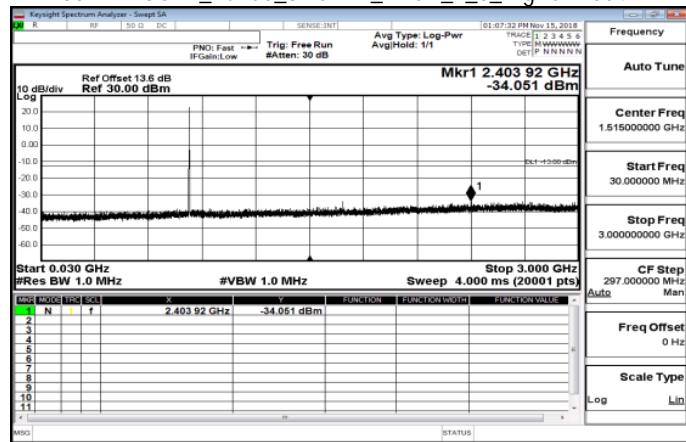
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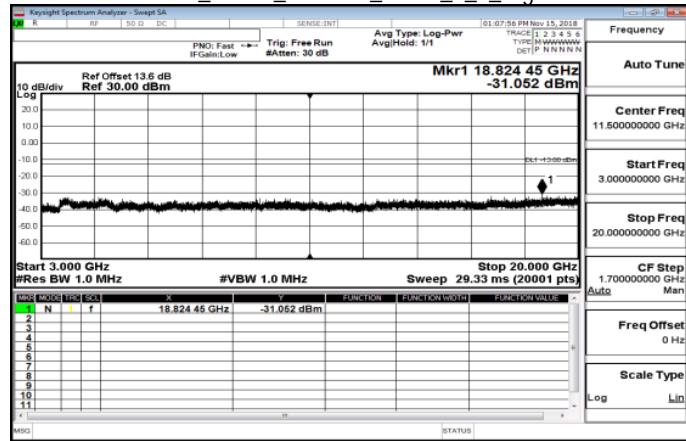
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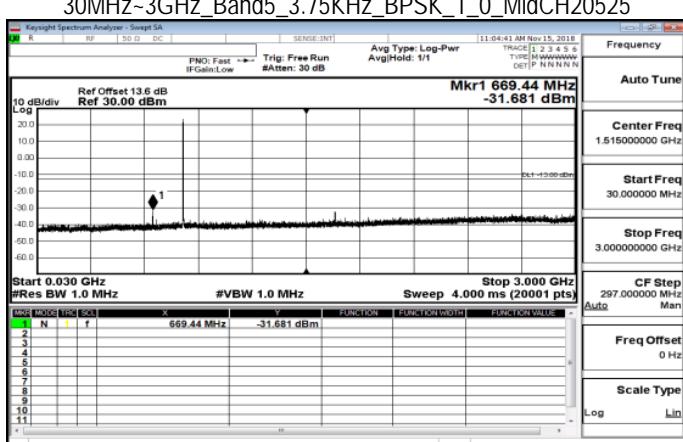
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30MHz~3GHz\_Band5\_3.75KHz\_BPSK\_1\_0\_MidCH20525



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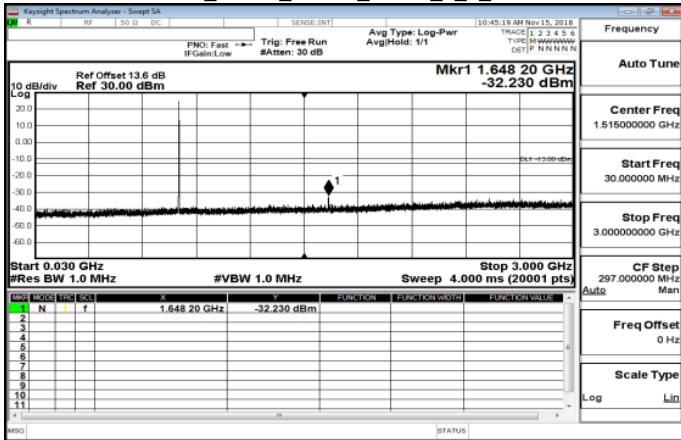
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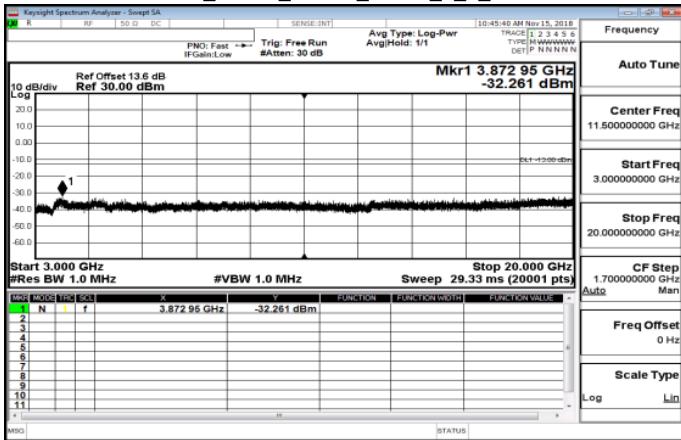
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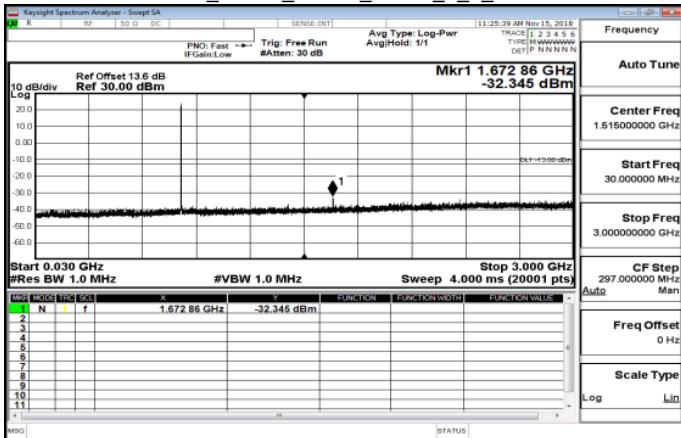
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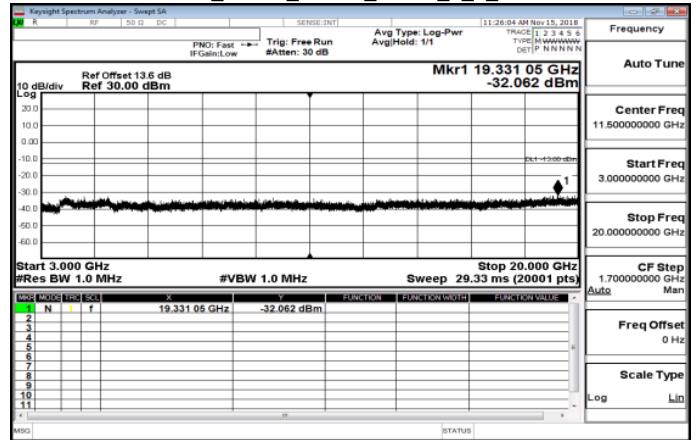
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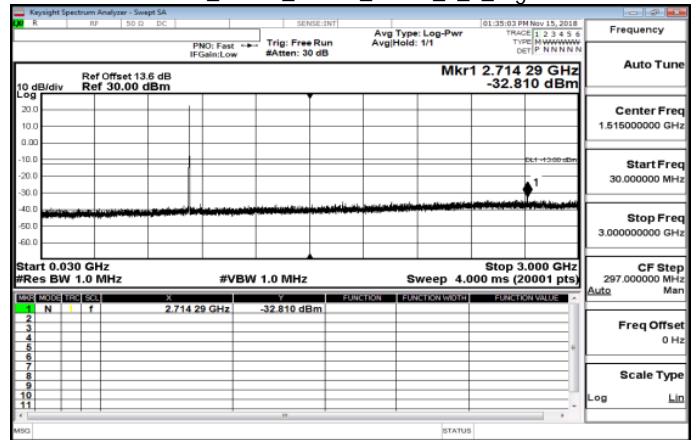
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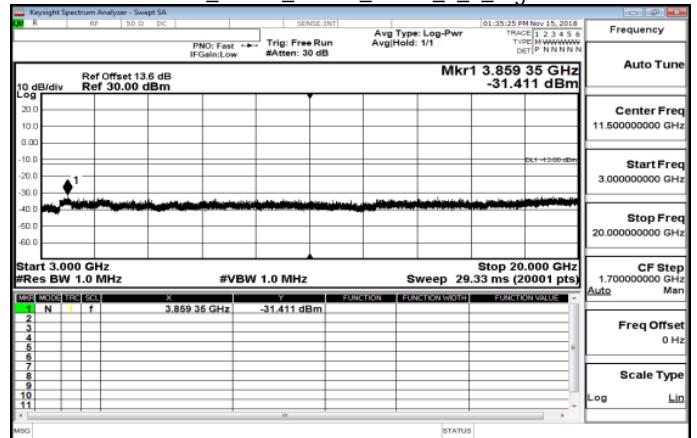
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30MHz~3GHz\_Band5\_15KHz\_QPSK\_1\_0\_HighCH20649



3GHz~10GHz\_Band5\_15KHz\_QPSK\_1\_0\_HighCH20649



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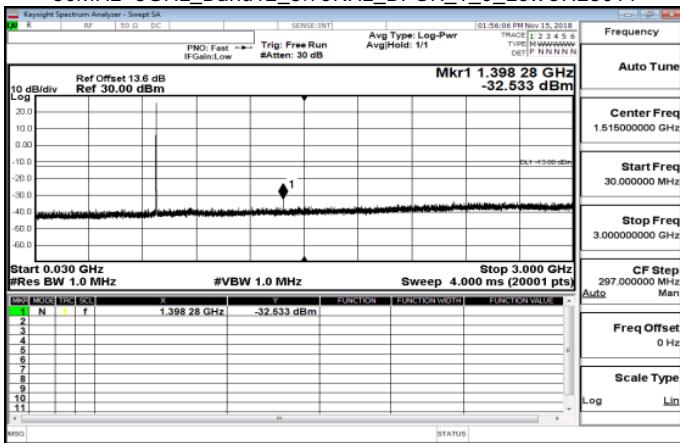
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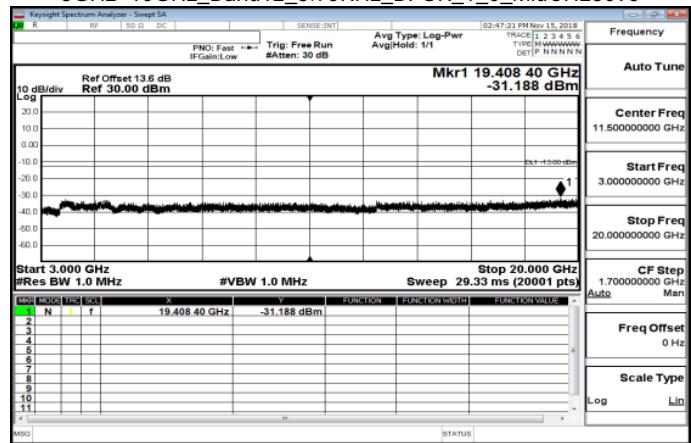
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30MHz~3GHz\_Band12\_3.75KHz\_BPSK\_1\_0\_LowCH23011

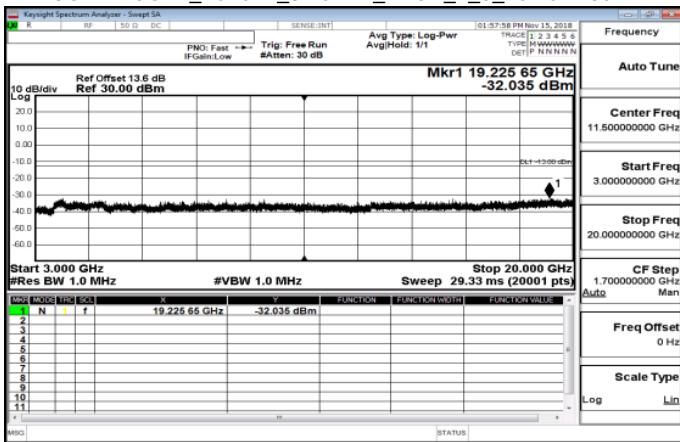


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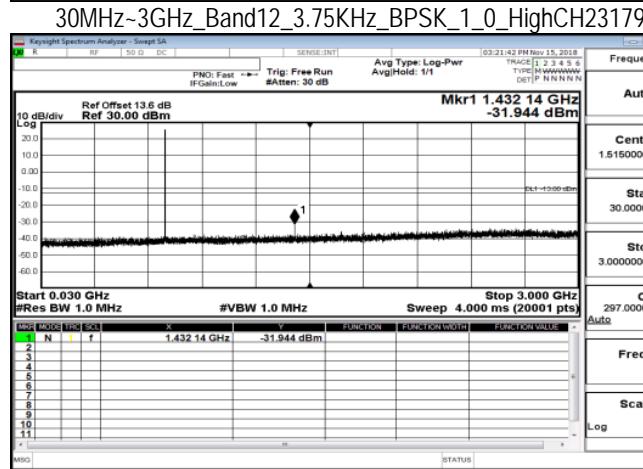
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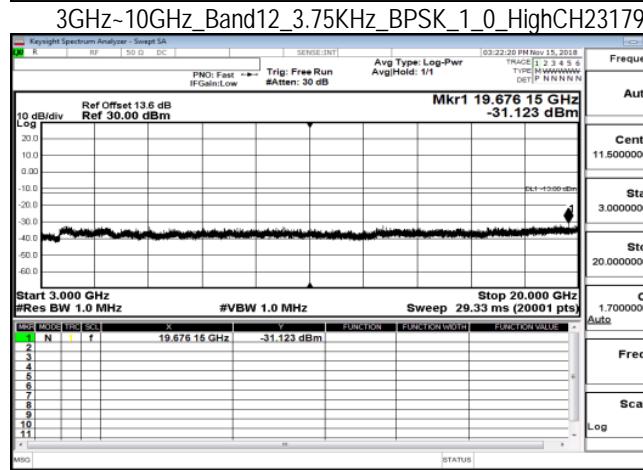
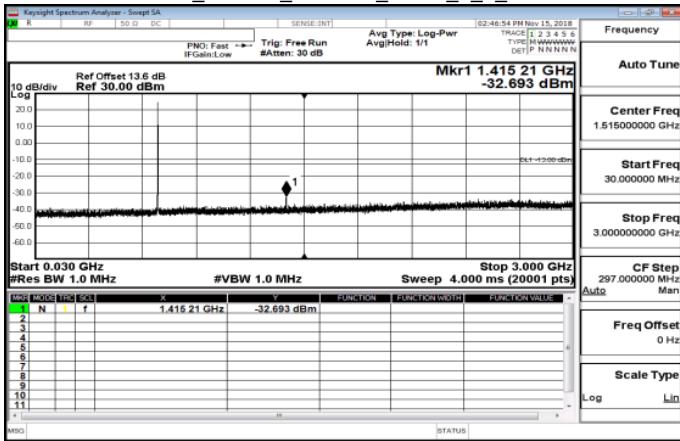
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30MHz~3GHz\_Band12\_3.75KHz\_BPSK\_1\_0\_MidCH23095



30MHz~3GHz\_Band12\_3.75KHz\_BPSK\_1\_0\_HighCH23179



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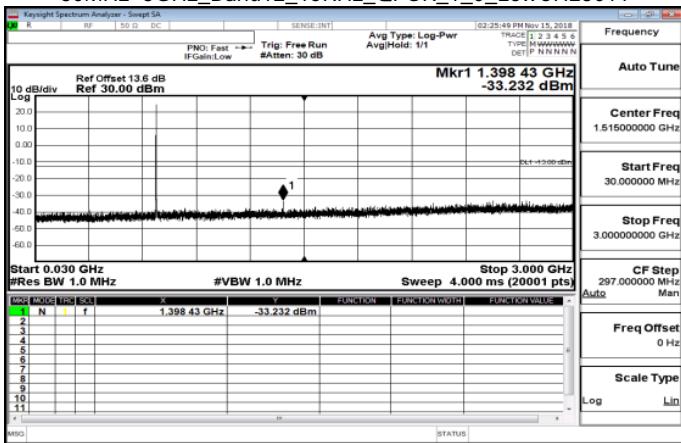
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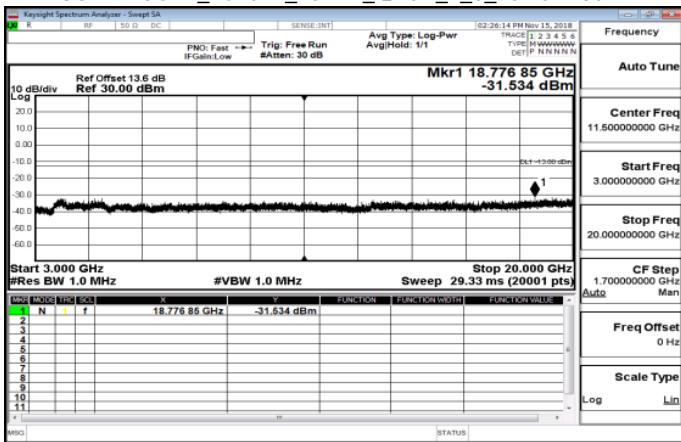
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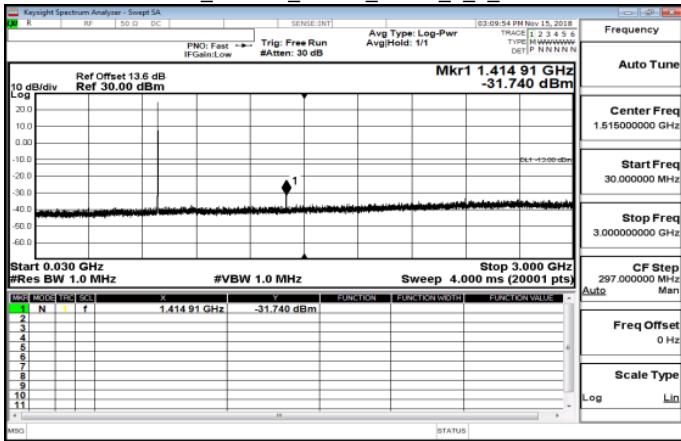
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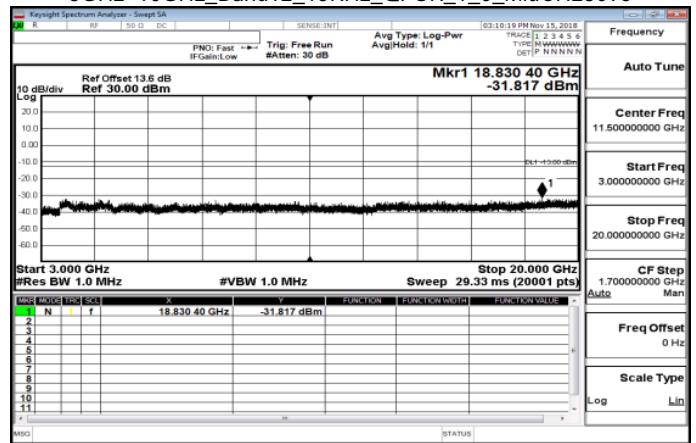
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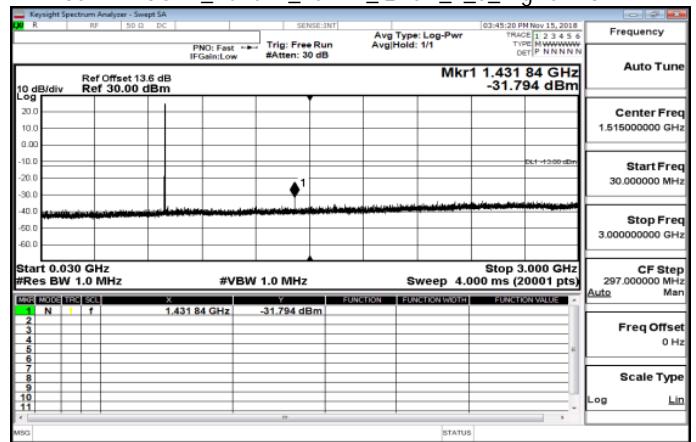
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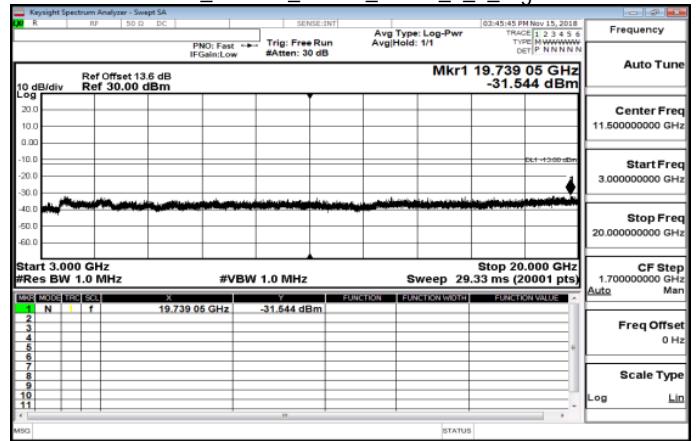
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30MHz~3GHz\_Band12\_15KHz\_QPSK\_1\_0\_HighCH23179



3GHz~10GHz\_Band12\_15KHz\_QPSK\_1\_0\_HighCH23179



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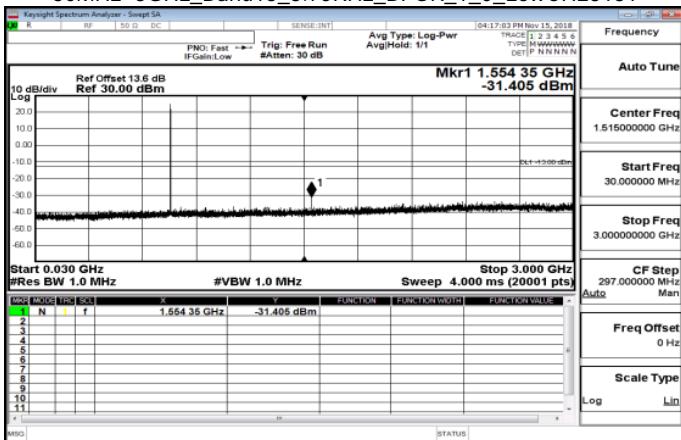
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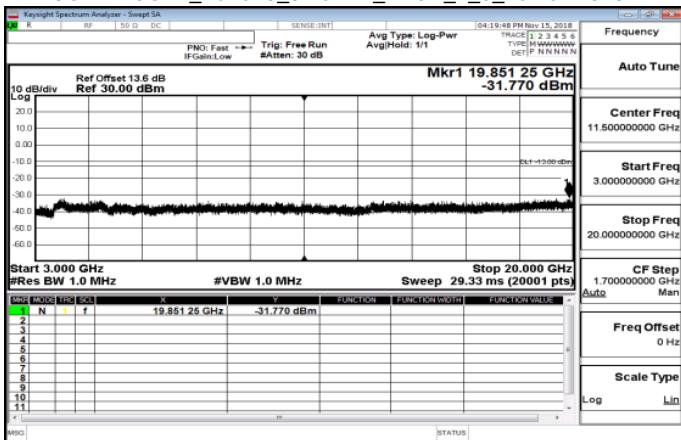
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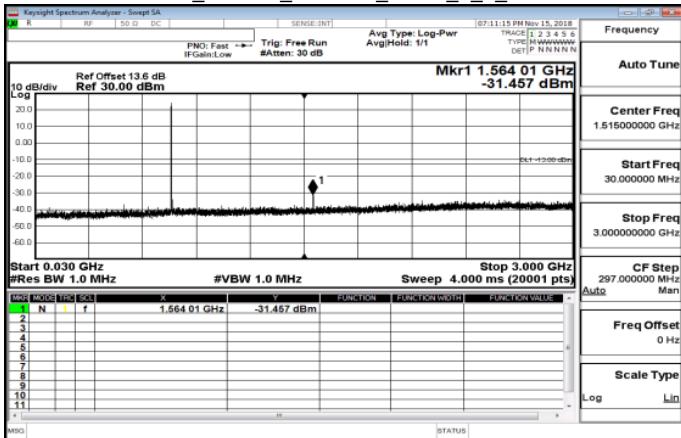
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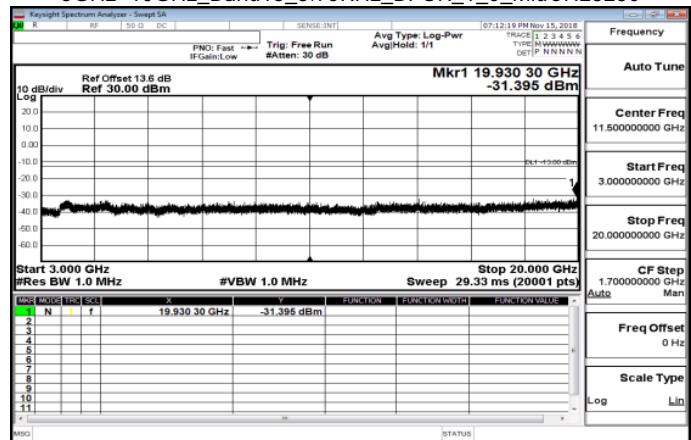


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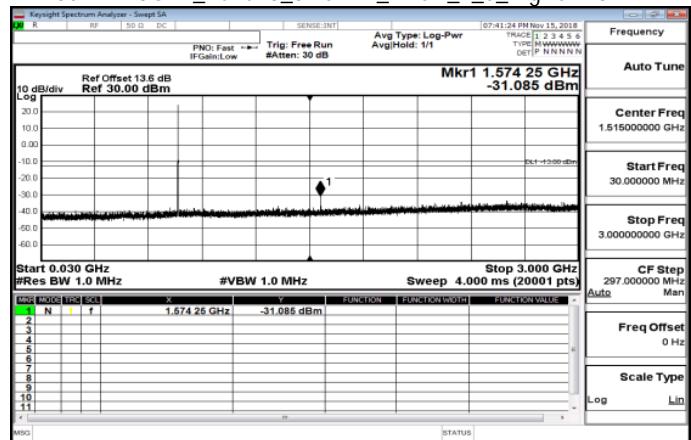


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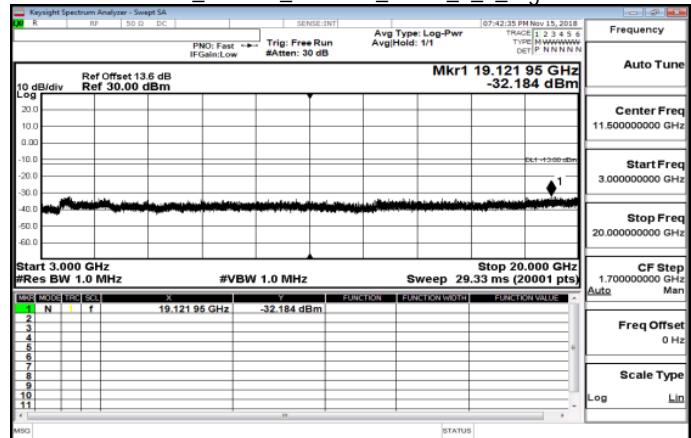
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30MHz~3GHz\_Band13\_3.75KHz\_BPSK\_1\_0\_HighCH23279



3GHz~10GHz\_Band13\_3.75KHz\_BPSK\_1\_0\_HighCH23279



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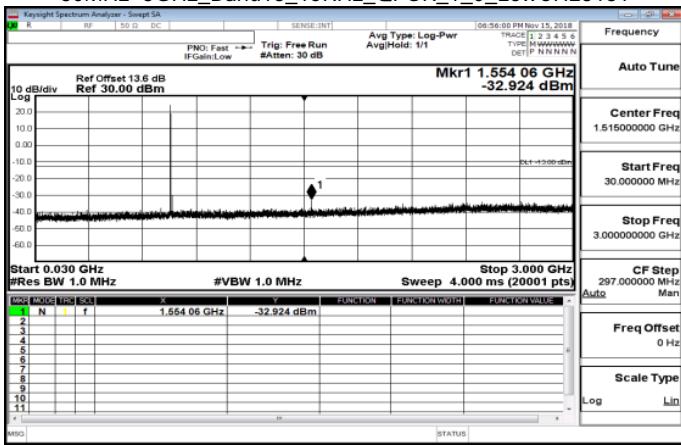
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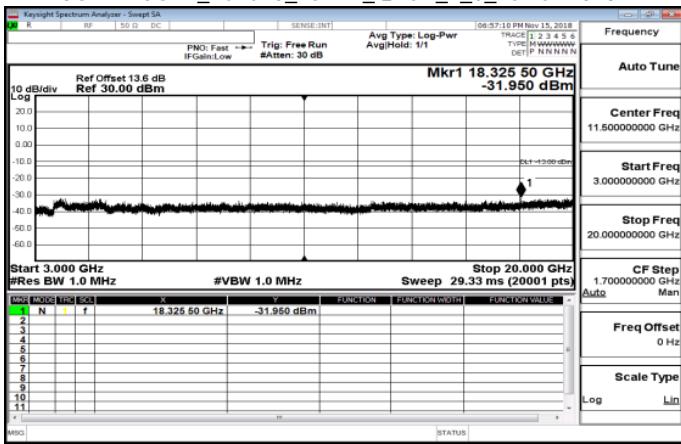
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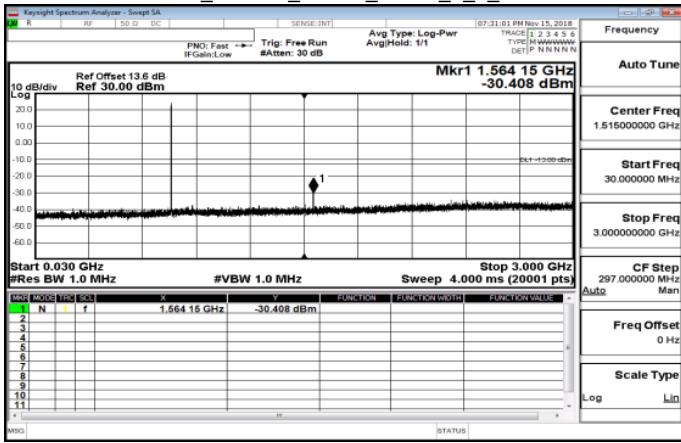
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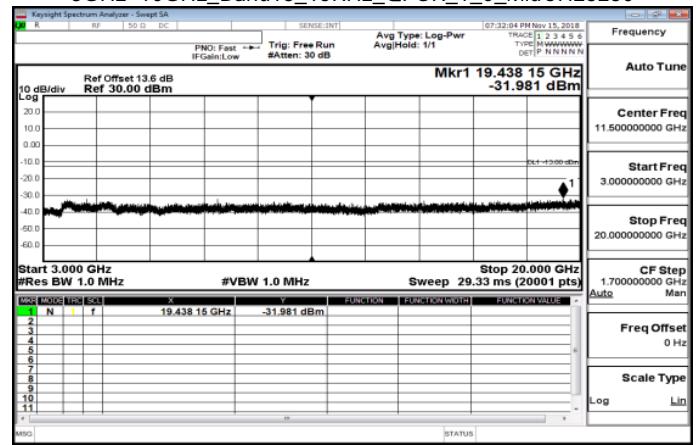
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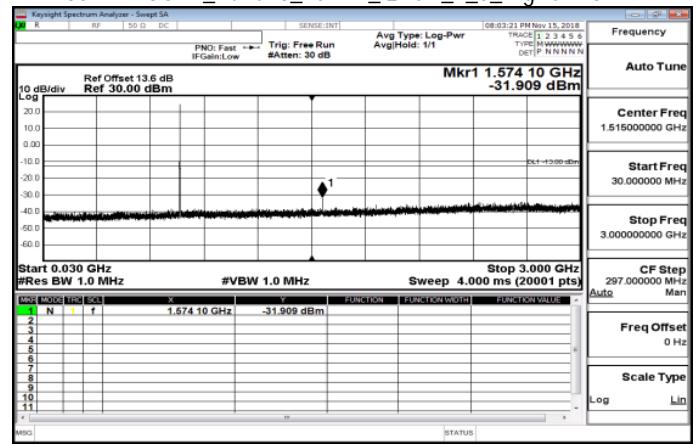
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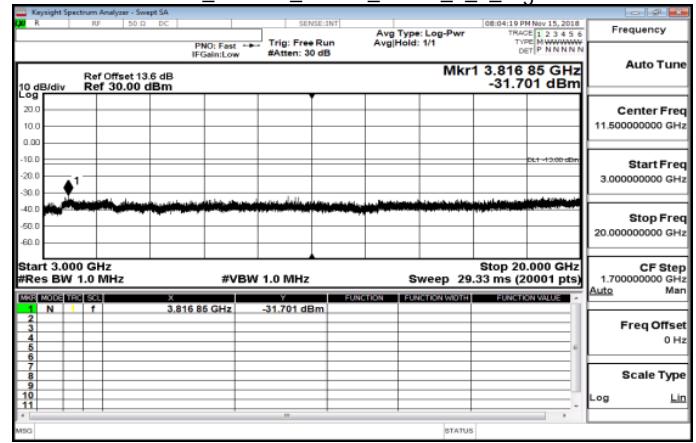
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3GHz~10GHz\_Band13\_15KHz\_QPSK\_1\_0\_HighCH23279



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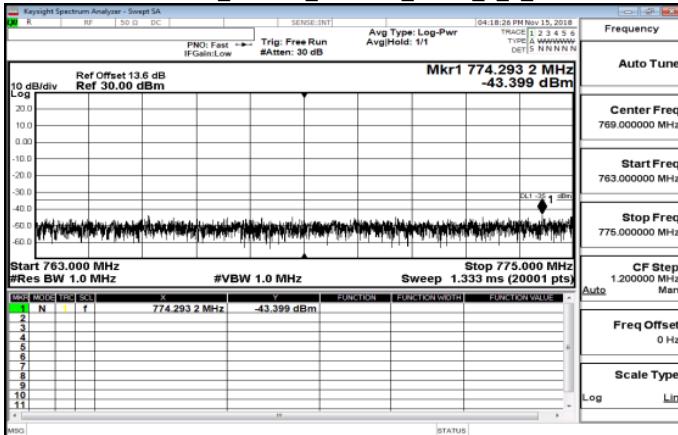
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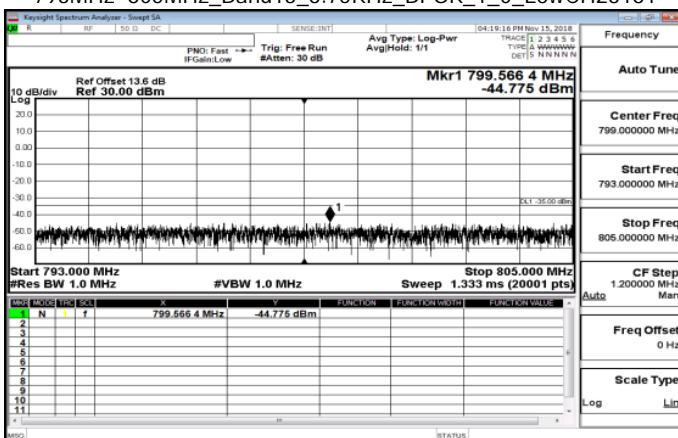
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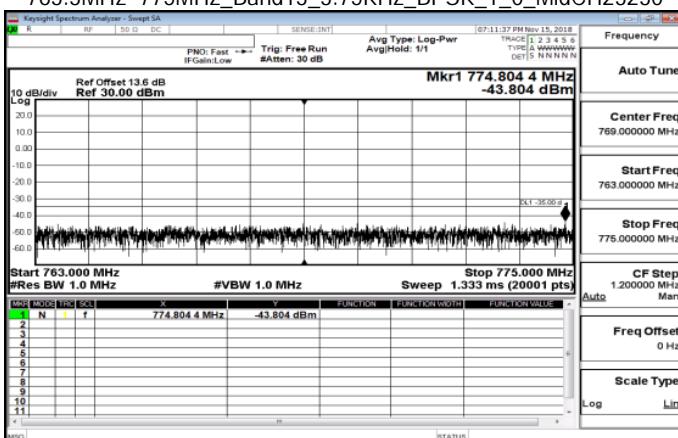
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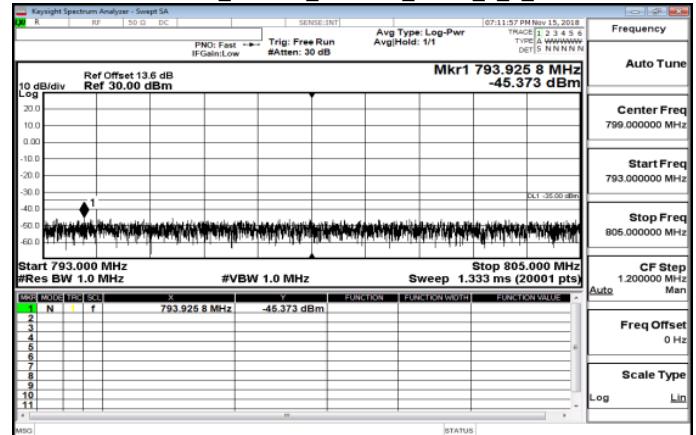
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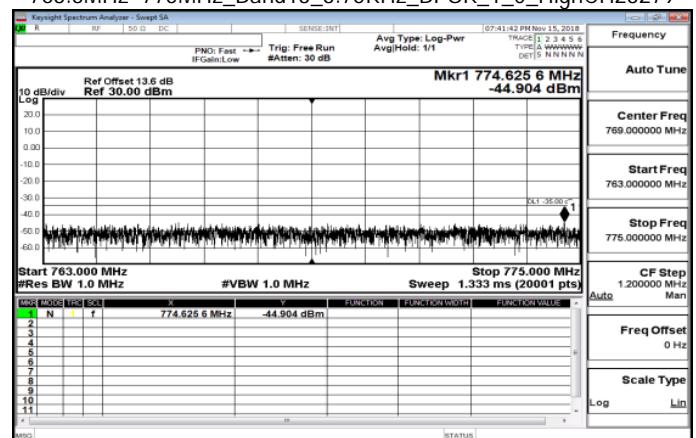
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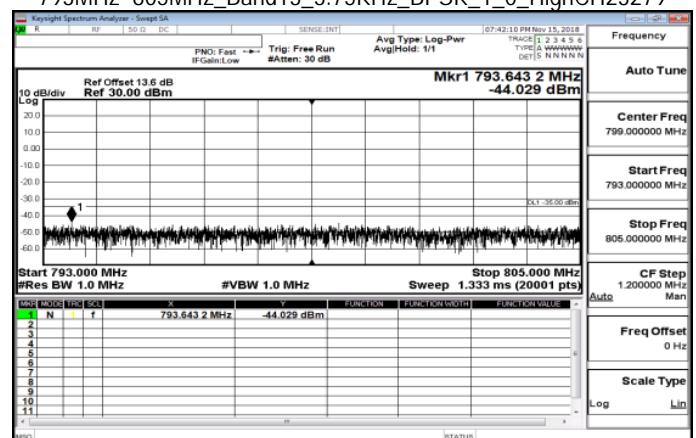
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763.3MHz~775MHz\_Band13\_3.75KHz\_BPSK\_1\_0\_HighCH23279



793MHz~805MHz\_Band13\_3.75KHz\_BPSK\_1\_0\_HighCH23279



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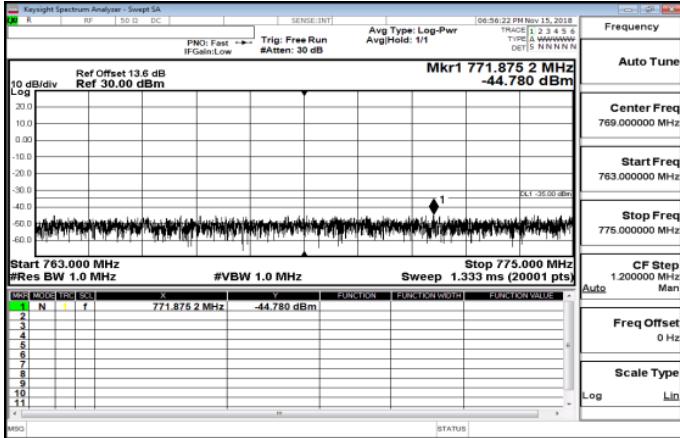
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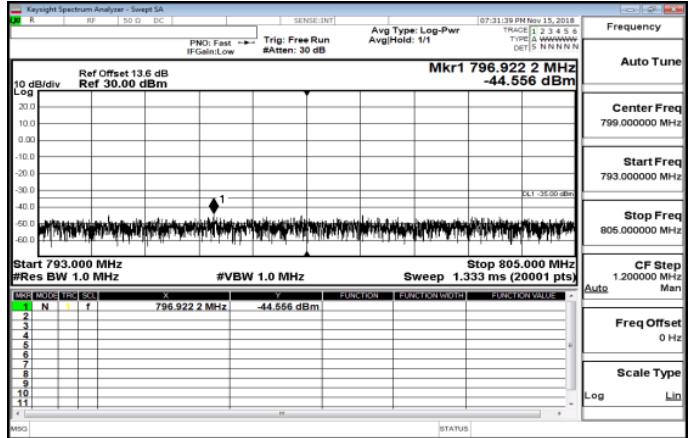
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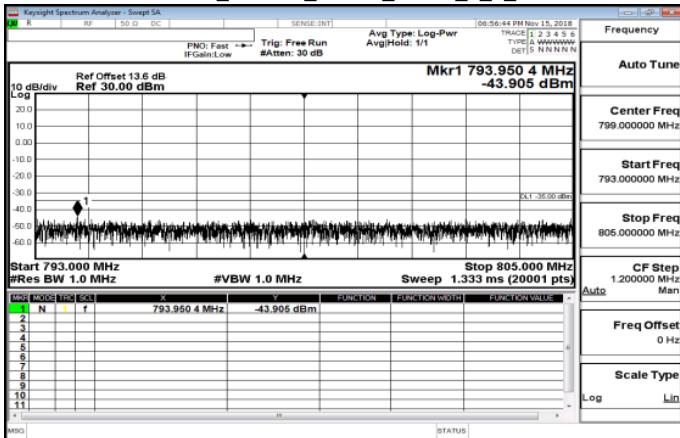
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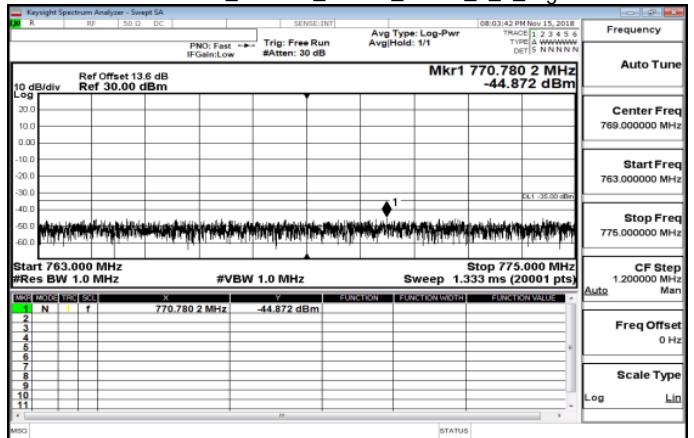
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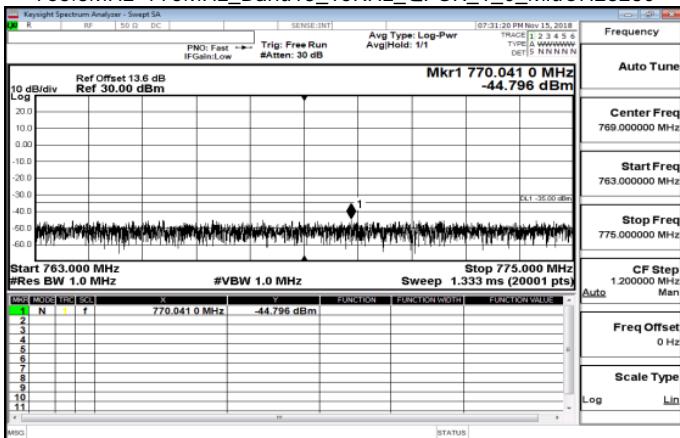
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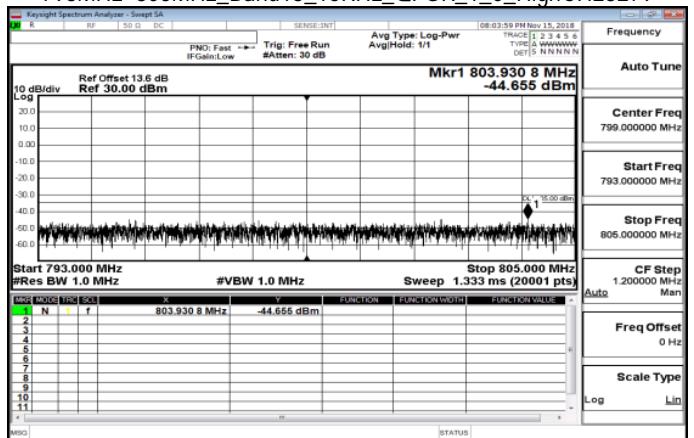
763.3MHz-775MHz\_Band13\_15KHz\_QPSK\_1\_0\_HighCH23279



763.3MHz-775MHz\_Band13\_15KHz\_QPSK\_1\_0\_MidCH23230



793MHz-805MHz\_Band13\_15KHz\_QPSK\_1\_0\_HighCH23279



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## 9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 9.3 Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53 (h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than  $43 + 10 \log$  (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (c)

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than  $65 + 10 \log (P)$  dB in a 6.25 kHz band segment, for mobile and portable stations;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h) (3)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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#### According to RSS-130 §4.6

The power of any unwanted emissions in any 100 kHz bandwidth on any frequency outside the frequency range(s) within which the equipment is designed to operate shall be attenuated below the transmitter power,  $P$  (dBW), by at least  $43 + 10 \log_{10} p$  (watts), dB. However, in the 100 kHz band immediately outside the equipment's operating frequency range, a resolution bandwidth of 30 kHz may be employed.

In addition to the limit outlined in Section 4.6.1 above, equipment operating in the frequency bands 746-756 MHz and 777-787 MHz shall also comply with the following restrictions:

(a) The power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P$  (dBW), by at least:

- (i)  $76 + 10 \log_{10} p$  (watts), dB, for base and fixed equipment, and
- (ii)  $65 + 10 \log_{10} p$  (watts), dB, for mobile and portable equipment.

#### According to RSS-133 §6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power  $P$  (dBW) by at least  $43 + 10 \log_{10} p$  (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power  $P$  (dBW) by at least  $43 + 10 \log_{10} p$  (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

#### According to RSS-139 §6.5

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power  $P$  (in watts) by at least  $43 + 10 \log_{10}(P)$ , dB.

(ii) After the first 1.0 MHz outside the equipment's operating frequency block, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power  $P$  (in watts) by at least  $43 + 10 \log_{10}(P)$ , dB.

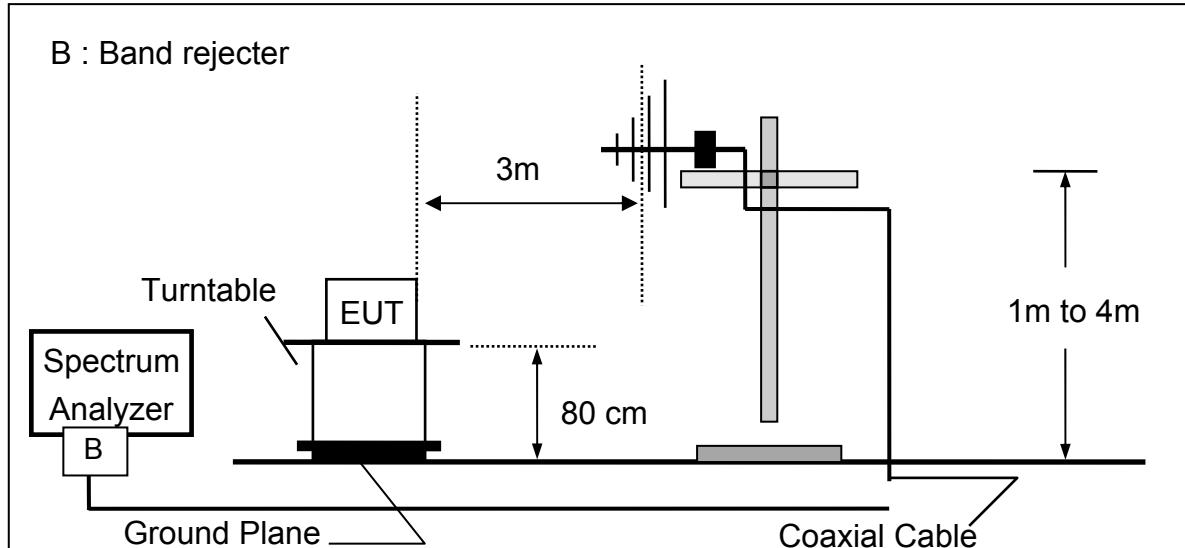
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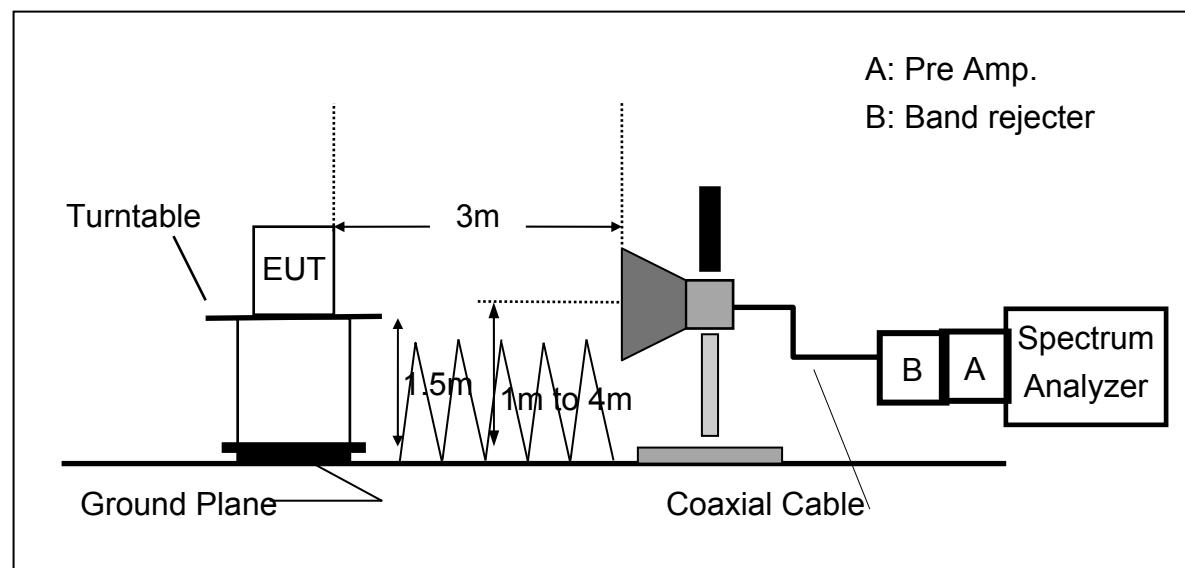
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## 9.4 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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## 9.5 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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## 9.6 Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35243	2018/10/30	2019/10/29
Horn Antenna	Schwarzbeck	BBHA9120D	1341	2018/06/07	2019/06/06
Horn Antenna	SCHWAZBECK	BBHA9170	184	2017/12/12	2018/12/11
EMI Test Receiver	R&S	ESU 40	100363	2018/04/11	2019/04/10
Radio Communication Analyser	Anritsu	MT8821C	6261786084	2018/01/03	2019/01/02
Pre-Amplifier	EMC Instruments	EMC330	980096	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC0011830	980199	2017/12/26	2018/12/25
Pre-Amplifier	EMC Instruments	EMC184045B	980135	2018/10/02	2019/10/01
Attenuator	Marvelous	MVE2213-30	RF28	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0037	RF105	2017/12/26	2018/12/25
Notch Filter	Woken	EWT-54-0038	RF55	2017/12/26	2018/12/25
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	EMC106-SM-SM-9100	150704	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	2017/12/26	2018/12/25
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	2017/12/26	2018/12/25

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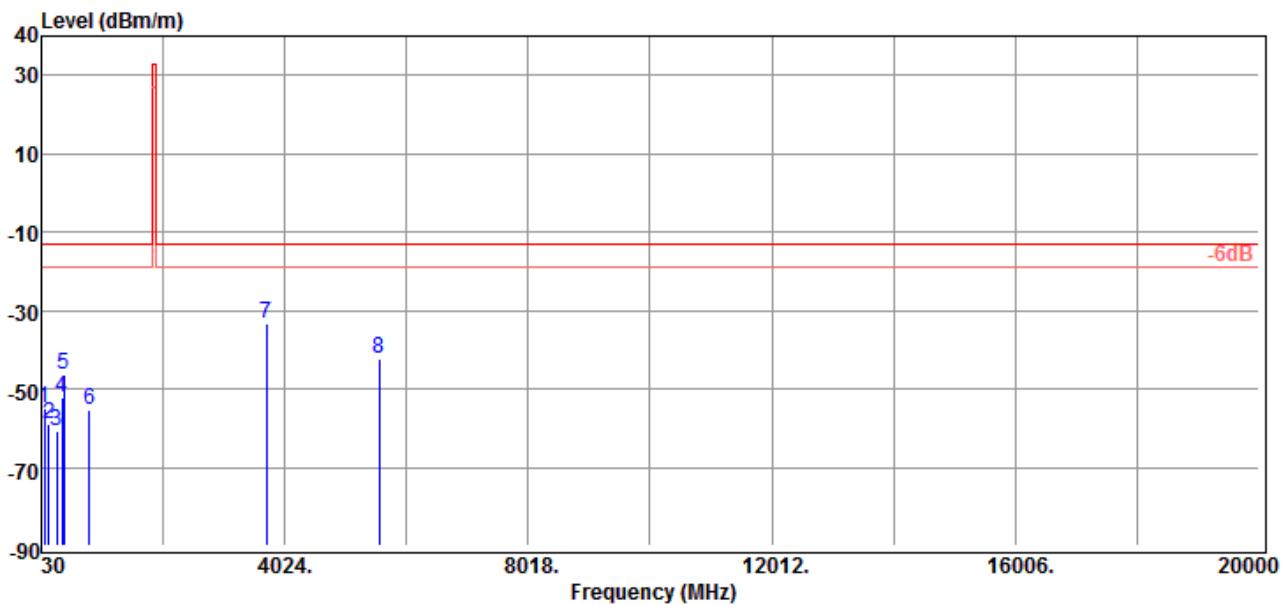
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## 9.7 Measurement Result:

### Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)(Cat M1)

Operation Mode	:LTEM1B2 5M 16QAM RB6,0	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1857.5 MHz	Engineer	:Ashton



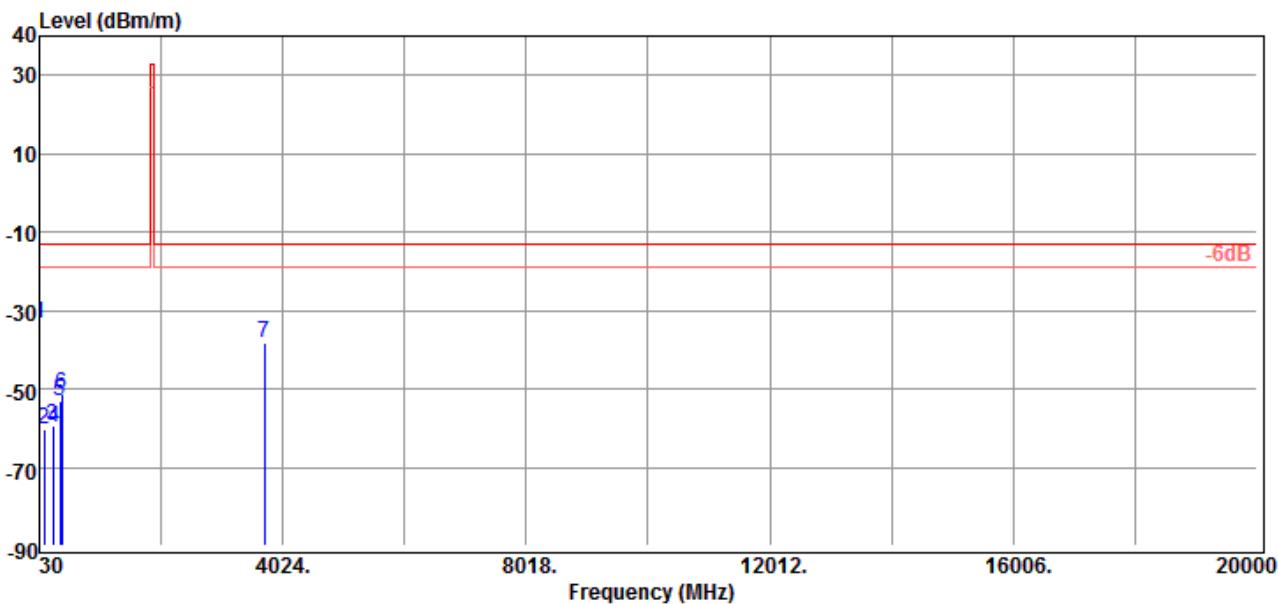
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
75.59	-54.93	-54.77	0.60	-0.76	-13.00	-41.93
159.98	-59.18	-61.40	3.27	-1.05	-13.00	-46.18
286.08	-60.63	-64.73	5.67	-1.57	-13.00	-47.63
375.32	-52.07	-55.73	5.66	-2.00	-13.00	-39.07
397.63	-46.58	-50.10	5.56	-2.04	-13.00	-33.58
823.46	-55.46	-60.60	7.54	-2.40	-13.00	-42.46
3715.00	-33.19	-38.89	12.43	-6.73	-13.00	-20.19
5572.50	-42.43	-49.00	13.01	-6.44	-13.00	-29.43

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Operation Mode	:LTEM1B2 5M 16QAM RB6,0	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1857.5 MHz	Engineer	:Ashton



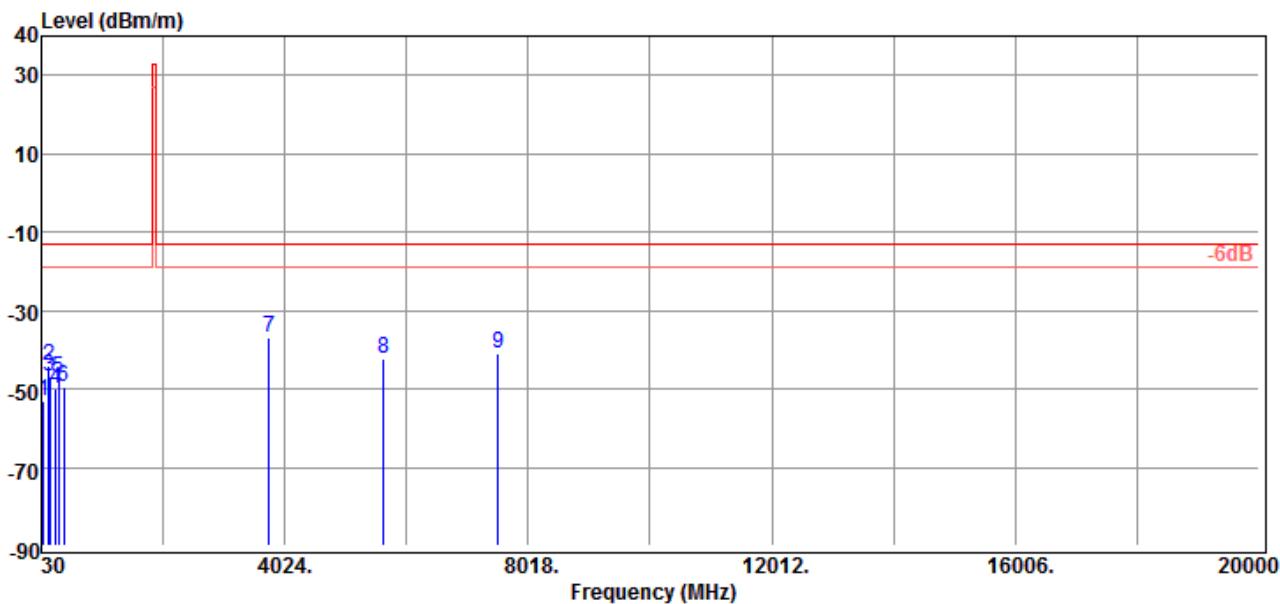
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.61	-33.52	-23.01	-9.90	-0.61	-13.00	-20.52
108.57	-60.19	-59.10	-0.20	-0.89	-13.00	-47.19
250.19	-59.55	-63.28	5.17	-1.44	-13.00	-46.55
264.74	-59.89	-63.78	5.38	-1.49	-13.00	-46.89
375.32	-53.11	-56.77	5.66	-2.00	-13.00	-40.11
404.42	-51.11	-54.67	5.60	-2.04	-13.00	-38.11
3715.00	-38.28	-43.98	12.43	-6.73	-13.00	-25.28

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Operation Mode	:LTEM1B2 5M 16QAM RB6,0	Test Date	:2018-11-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Ashton



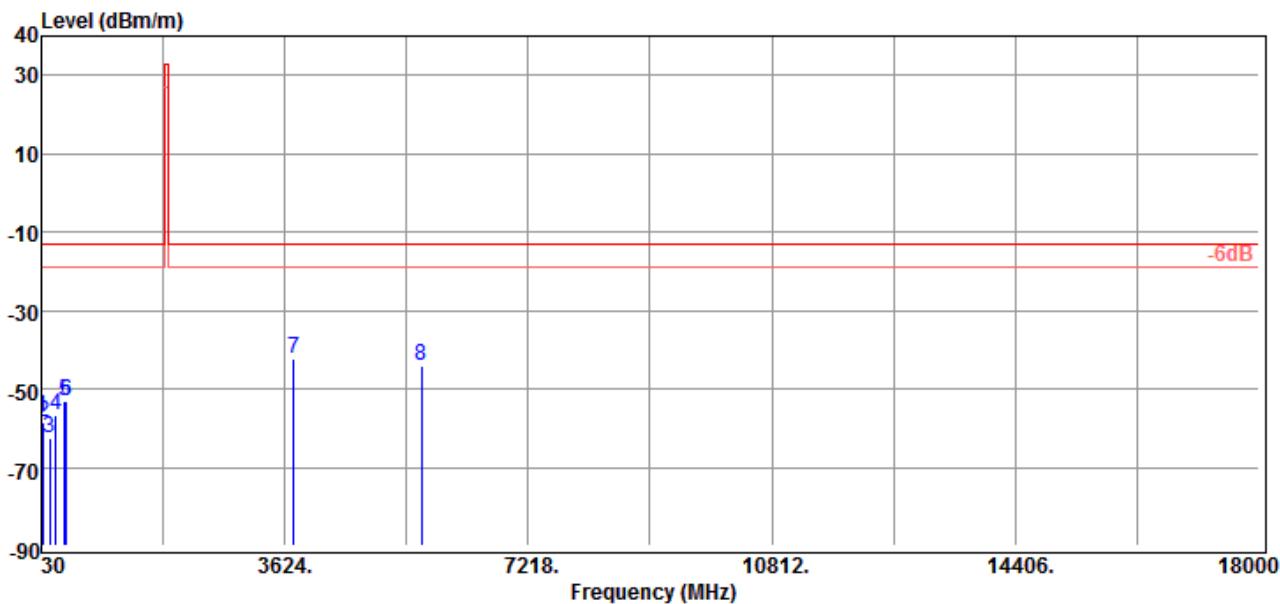
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
64.92	-52.91	-52.08	-0.14	-0.69	-13.00	-39.91
156.10	-44.12	-46.08	2.99	-1.03	-13.00	-31.12
166.77	-46.79	-49.46	3.75	-1.08	-13.00	-33.79
264.74	-50.08	-53.97	5.38	-1.49	-13.00	-37.08
316.15	-47.42	-51.52	5.83	-1.73	-13.00	-34.42
402.48	-49.32	-52.86	5.58	-2.04	-13.00	-36.32
3760.00	-37.07	-42.86	12.46	-6.67	-13.00	-24.07
5640.00	-42.41	-48.84	13.03	-6.60	-13.00	-29.41
7520.00	-40.83	-44.81	11.30	-7.32	-13.00	-27.83

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Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Ashton



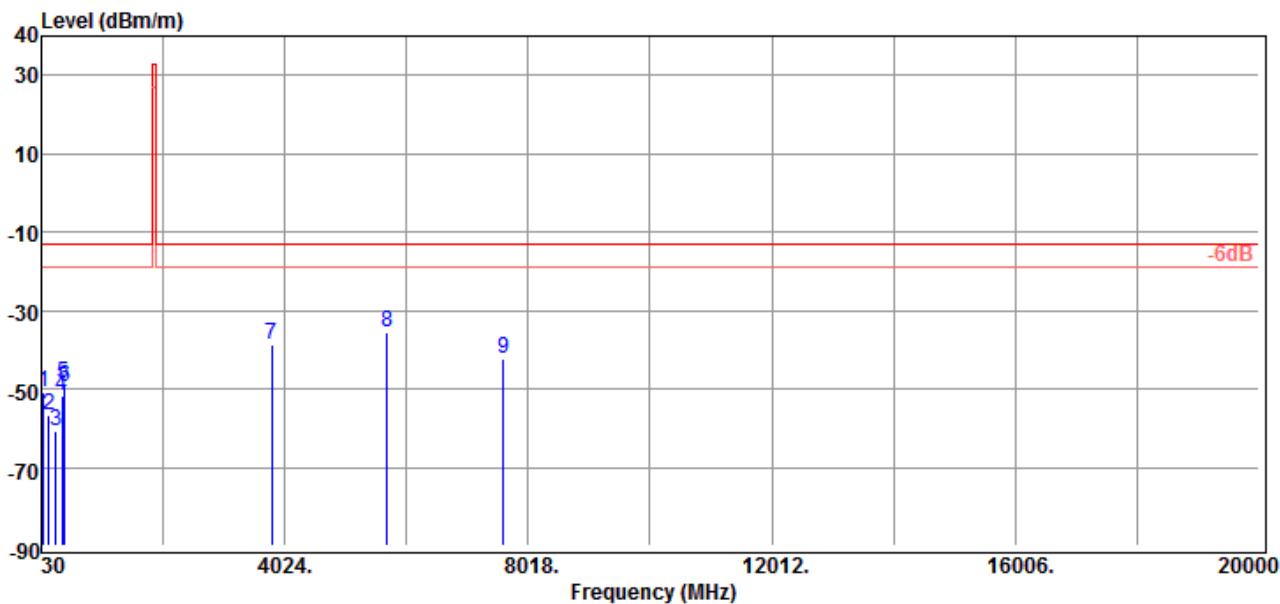
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.05	-36.56	-20.05	-0.44	-13.00	-44.05
63.95	-58.49	-57.53	-0.28	-0.68	-13.00	-45.49
156.10	-62.64	-64.60	2.99	-1.03	-13.00	-49.64
250.19	-56.84	-60.57	5.17	-1.44	-13.00	-43.84
375.32	-53.33	-56.99	5.66	-2.00	-13.00	-40.33
399.57	-53.01	-56.52	5.55	-2.04	-13.00	-40.01
3760.00	-42.42	-48.21	12.46	-6.67	-13.00	-29.42
5640.00	-44.31	-50.74	13.03	-6.60	-13.00	-31.31

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Operation Mode	:LTEM1B2 5M 16QAM RB6,0	Test Date	:2018-11-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1902.5 MHz	Engineer	:Ashton



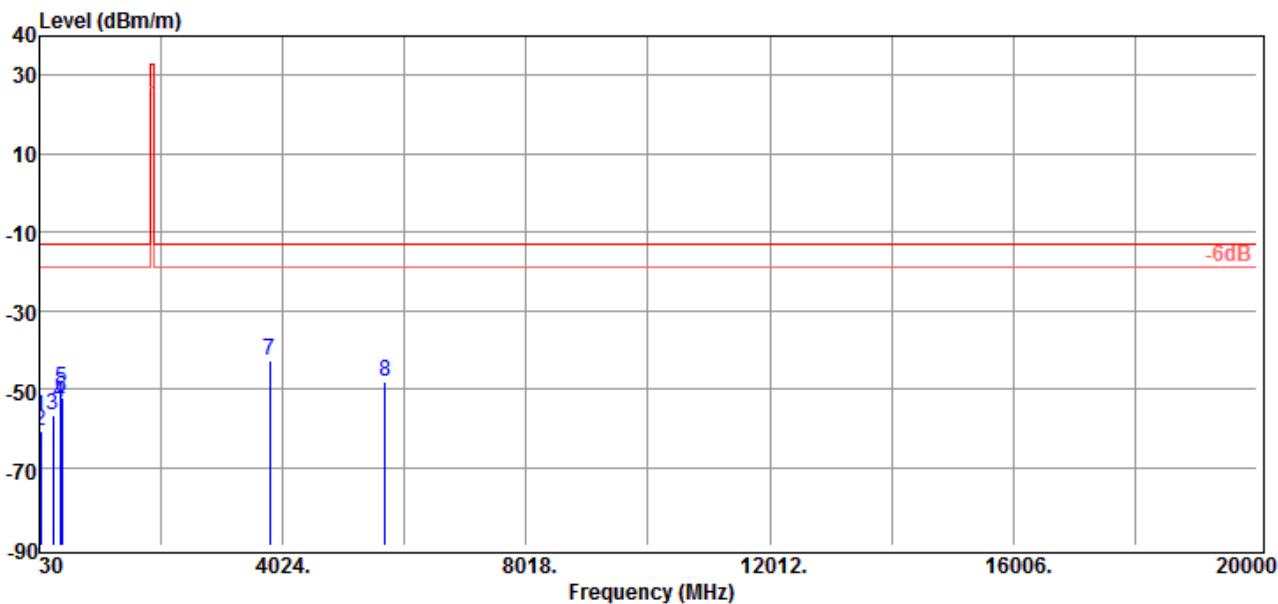
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
69.77	-51.01	-50.76	0.48	-0.73	-13.00	-38.01
155.13	-56.62	-58.52	2.92	-1.02	-13.00	-43.62
263.77	-60.91	-64.79	5.37	-1.49	-13.00	-47.91
374.35	-51.83	-55.51	5.67	-1.99	-13.00	-38.83
398.60	-48.62	-52.14	5.56	-2.04	-13.00	-35.62
408.30	-49.30	-52.90	5.64	-2.04	-13.00	-36.30
3805.00	-38.82	-44.70	12.49	-6.61	-13.00	-25.82
5707.50	-35.47	-41.78	13.04	-6.73	-13.00	-22.47
7610.00	-42.31	-46.20	11.30	-7.41	-13.00	-29.31

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Operation Mode	:LTEM1B2 5M 16QAM RB6,0	Test Date	:2018-11-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1902.5 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.07	-36.58	-20.05	-0.44	-13.00	-44.07
58.13	-60.64	-58.49	-1.50	-0.65	-13.00	-47.64
250.19	-56.90	-60.63	5.17	-1.44	-13.00	-43.90
375.32	-53.56	-57.22	5.66	-2.00	-13.00	-40.56
390.84	-49.92	-53.49	5.59	-2.02	-13.00	-36.92
402.48	-52.04	-55.58	5.58	-2.04	-13.00	-39.04
3805.00	-42.88	-48.76	12.49	-6.61	-13.00	-29.88
5707.50	-48.15	-54.46	13.04	-6.73	-13.00	-35.15

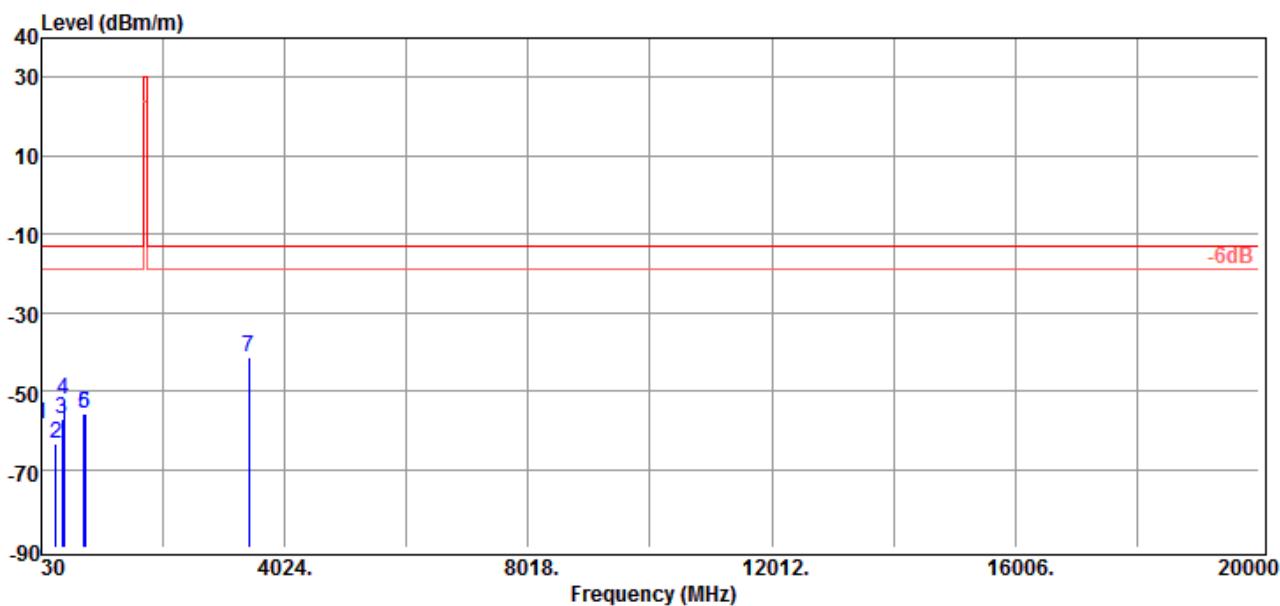
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**Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)**

Operation Mode :LTEM1B4 20M 16QAM RB1,0 Test Date :2018-11-23  
Test Mode :TX CH LOW Temp./Humi. :25/60  
EUT Pol :E2 Plan Antenna Pol. :VERTICAL  
Test Channel :1720 MHz Engineer :Ashton



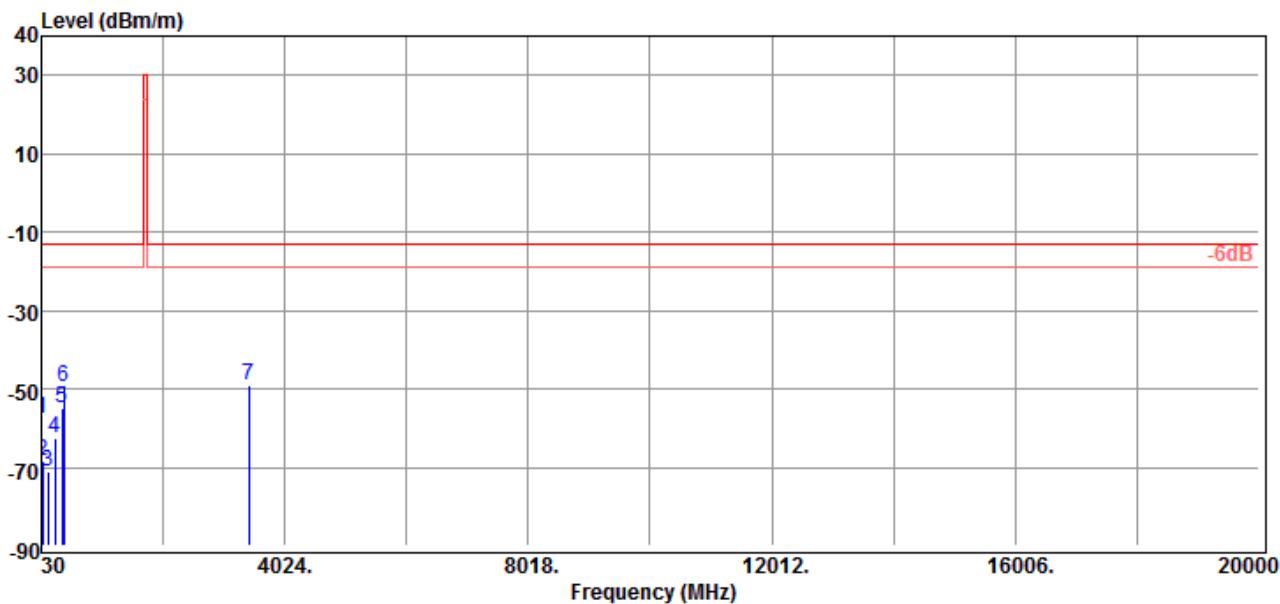
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.59	-38.10	-20.05	-0.44	-13.00	-45.59
267.65	-63.32	-67.24	5.42	-1.50	-13.00	-50.32
375.32	-56.97	-60.63	5.66	-2.00	-13.00	-43.97
396.66	-52.03	-55.57	5.57	-2.03	-13.00	-39.03
729.37	-55.68	-60.90	7.37	-2.15	-13.00	-42.68
746.83	-55.71	-61.04	7.40	-2.07	-13.00	-42.71
3440.00	-41.33	-46.80	12.19	-6.72	-13.00	-28.33

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Operation Mode	:LTEM1B4 20M 16QAM RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1720 MHz	Engineer	:Ashton



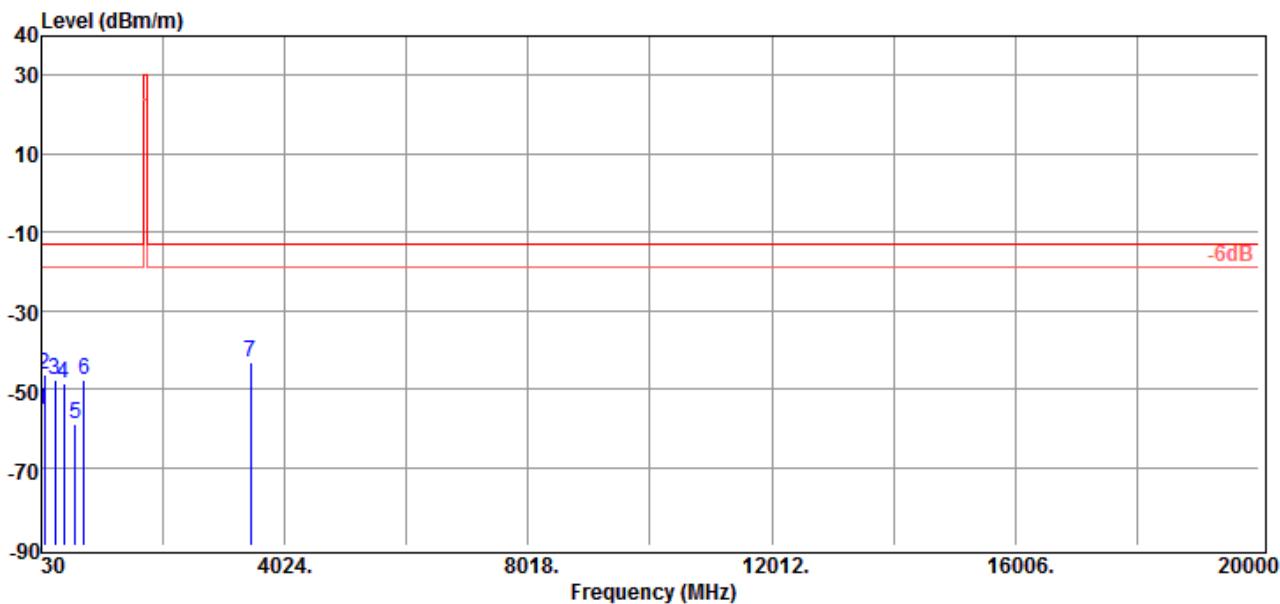
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.57	-37.08	-20.05	-0.44	-13.00	-44.57
51.34	-68.38	-63.57	-4.15	-0.66	-13.00	-55.38
145.43	-71.09	-72.37	2.27	-0.99	-13.00	-58.09
250.19	-62.67	-66.40	5.17	-1.44	-13.00	-49.67
375.32	-54.94	-58.60	5.66	-2.00	-13.00	-41.94
395.69	-49.42	-52.96	5.57	-2.03	-13.00	-36.42
3440.00	-48.87	-54.34	12.19	-6.72	-13.00	-35.87

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Operation Mode	:LTEM1B4 20M 16QAM RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1732.5 MHz	Engineer	:Ashton



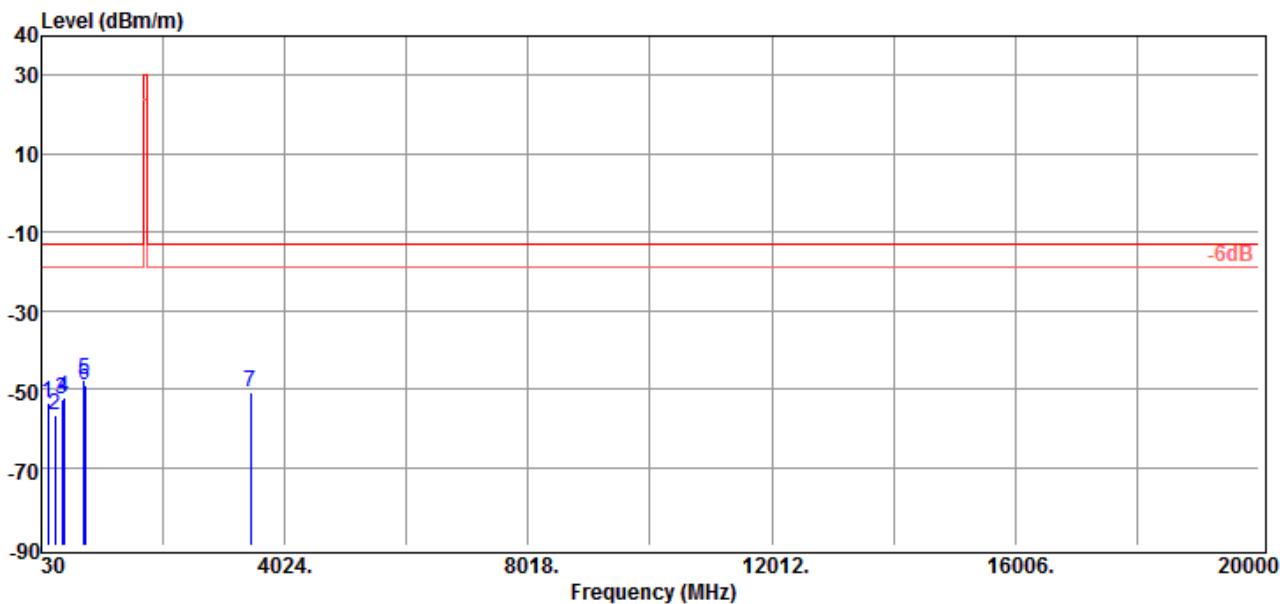
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
37.76	-55.21	-41.08	-13.57	-0.56	-13.00	-42.21
75.59	-46.19	-46.03	0.60	-0.76	-13.00	-33.19
248.25	-47.92	-51.68	5.19	-1.43	-13.00	-34.92
403.45	-48.42	-51.97	5.59	-2.04	-13.00	-35.42
585.81	-58.84	-63.20	6.55	-2.19	-13.00	-45.84
730.34	-47.78	-53.01	7.37	-2.14	-13.00	-34.78
3465.00	-43.00	-48.39	12.23	-6.84	-13.00	-30.00

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Operation Mode	:LTEM1B4 20M 16QAM RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1732.5 MHz	Engineer	:Ashton



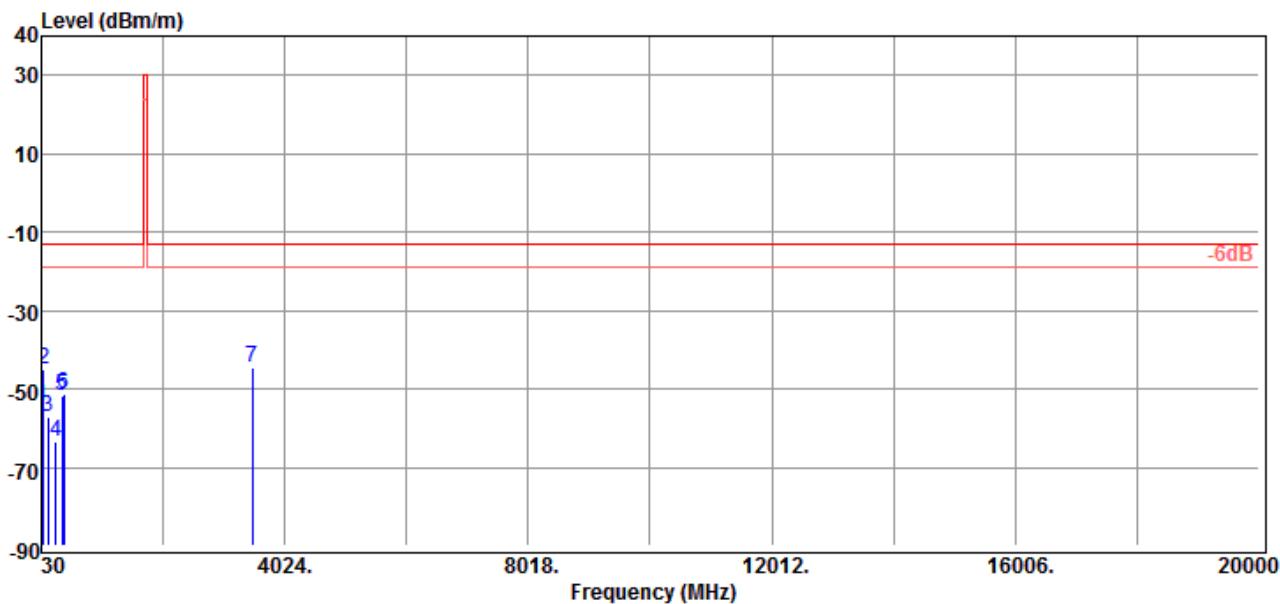
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
143.49	-53.66	-54.84	2.16	-0.98	-13.00	-40.66
250.19	-56.87	-60.60	5.17	-1.44	-13.00	-43.87
375.32	-52.88	-56.54	5.66	-2.00	-13.00	-39.88
396.66	-52.07	-55.61	5.57	-2.03	-13.00	-39.07
732.28	-47.54	-52.78	7.38	-2.14	-13.00	-34.54
746.83	-49.05	-54.38	7.40	-2.07	-13.00	-36.05
3465.00	-51.00	-56.39	12.23	-6.84	-13.00	-38.00

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Operation Mode	:LTEM1B4 20M 16QAM RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1745 MHz	Engineer	:Ashton



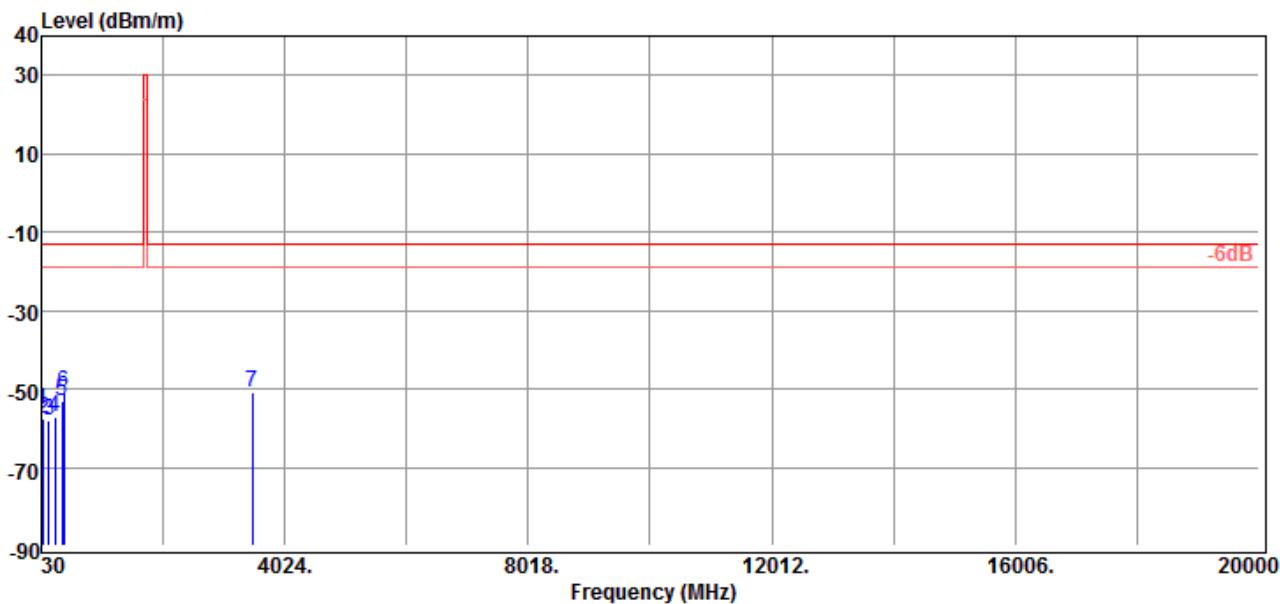
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-54.31	-34.70	-19.15	-0.46	-13.00	-41.31
62.98	-45.14	-44.06	-0.41	-0.67	-13.00	-32.14
133.79	-57.01	-57.62	1.57	-0.96	-13.00	-44.01
264.74	-63.31	-67.20	5.38	-1.49	-13.00	-50.31
375.32	-51.63	-55.29	5.66	-2.00	-13.00	-38.63
402.48	-51.13	-54.67	5.58	-2.04	-13.00	-38.13
3490.00	-44.37	-49.69	12.28	-6.96	-13.00	-31.37

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Operation Mode	:LTEM1B4 20M 16QAM RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH HIGH	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1745 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-55.35	-38.22	-16.63	-0.50	-13.00	-42.35
70.74	-57.48	-57.27	0.52	-0.73	-13.00	-44.48
158.04	-57.86	-59.95	3.13	-1.04	-13.00	-44.86
250.19	-56.98	-60.71	5.17	-1.44	-13.00	-43.98
375.32	-53.27	-56.93	5.66	-2.00	-13.00	-40.27
395.69	-50.65	-54.19	5.57	-2.03	-13.00	-37.65
3490.00	-50.93	-56.25	12.28	-6.96	-13.00	-37.93

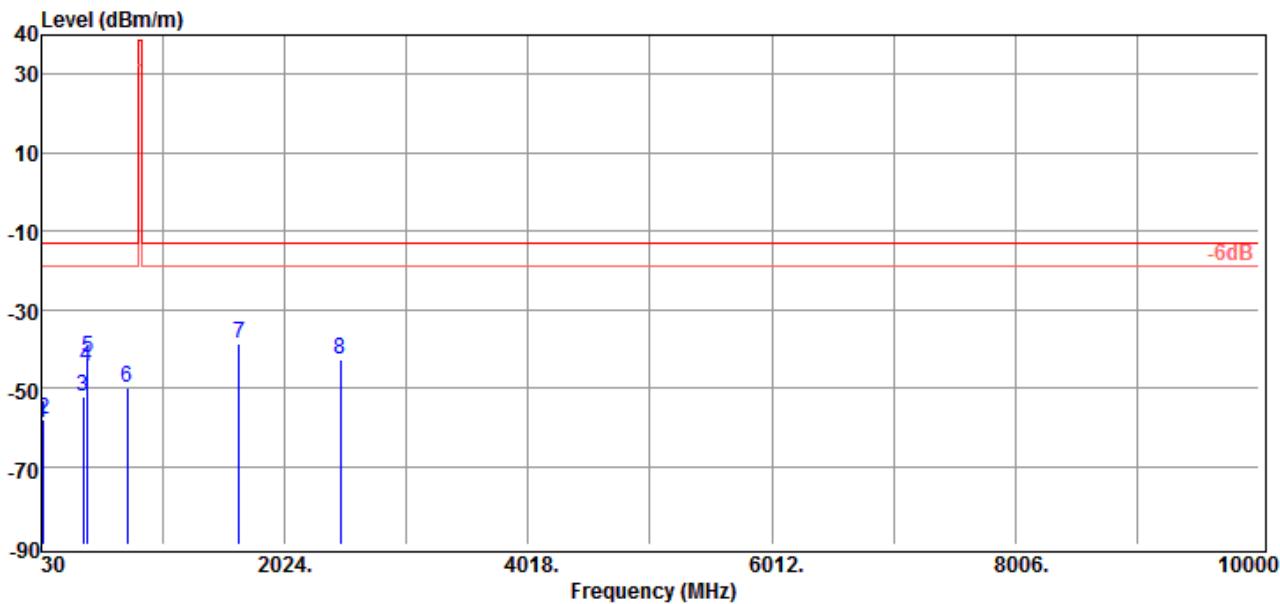
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## Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Operation Mode	:LTEM1B5 3M QPSK RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:825.5 MHz	Engineer	:Ashton



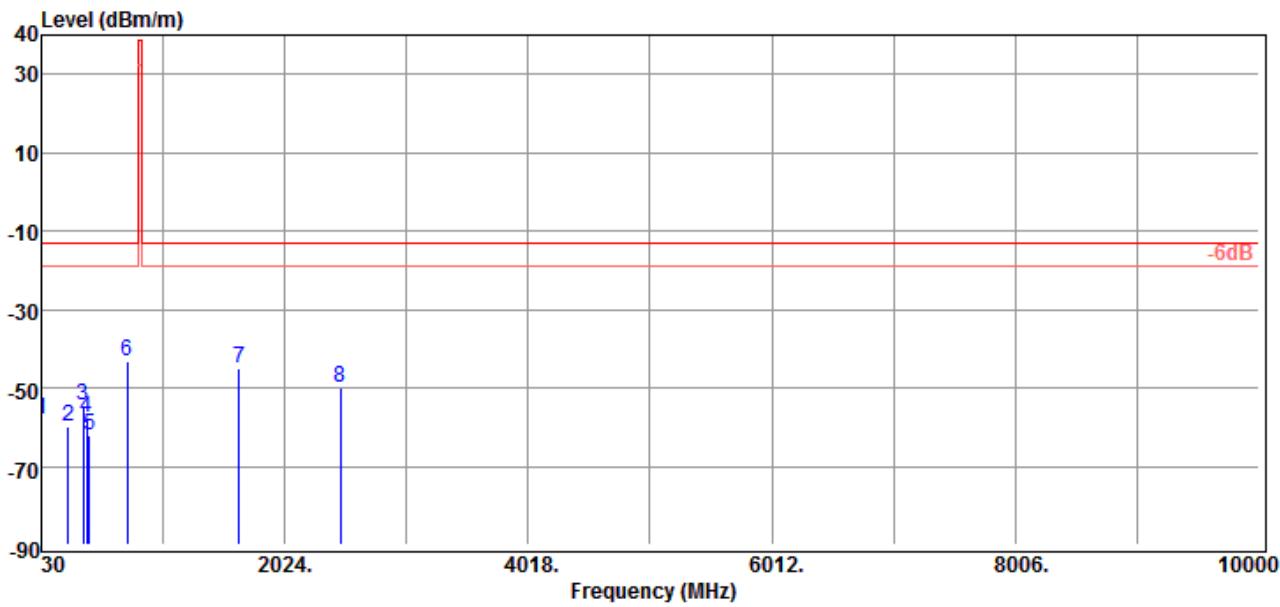
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.83	-38.34	-20.05	-0.44	-13.00	-45.83
51.34	-57.91	-53.10	-4.15	-0.66	-13.00	-44.91
375.32	-52.01	-55.67	5.66	-2.00	-13.00	-39.01
403.45	-44.69	-48.24	5.59	-2.04	-13.00	-31.69
407.33	-42.40	-45.99	5.63	-2.04	-13.00	-29.40
736.16	-49.82	-55.08	7.38	-2.12	-13.00	-36.82
1651.00	-38.90	-43.87	8.80	-3.83	-13.00	-25.90
2476.50	-42.81	-49.11	10.68	-4.38	-13.00	-29.81

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Operation Mode	:LTEM1B5 3M QPSK RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:825.5 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.20	-37.71	-20.05	-0.44	-13.00	-45.20
250.19	-59.86	-63.59	5.17	-1.44	-13.00	-46.86
375.32	-54.26	-57.92	5.66	-2.00	-13.00	-41.26
404.42	-57.49	-61.05	5.60	-2.04	-13.00	-44.49
425.76	-62.03	-65.81	5.83	-2.05	-13.00	-49.03
730.34	-43.23	-48.46	7.37	-2.14	-13.00	-30.23
1651.00	-45.04	-50.01	8.80	-3.83	-13.00	-32.04
2476.50	-49.89	-56.19	10.68	-4.38	-13.00	-36.89

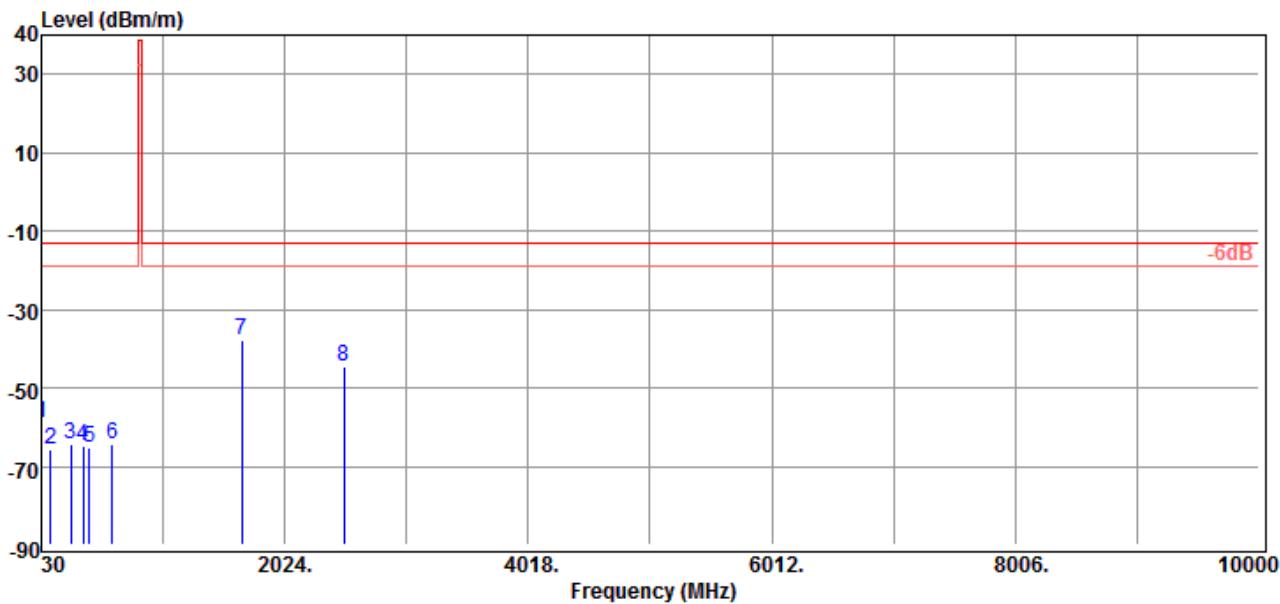
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Operation Mode :LTEM1B5 3M QPSK RB1,0  
 Test Mode :TX CH MID  
 EUT Pol :E2 Plan  
 Test Channel :836.5 MHz

Test Date :2018-11-23  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



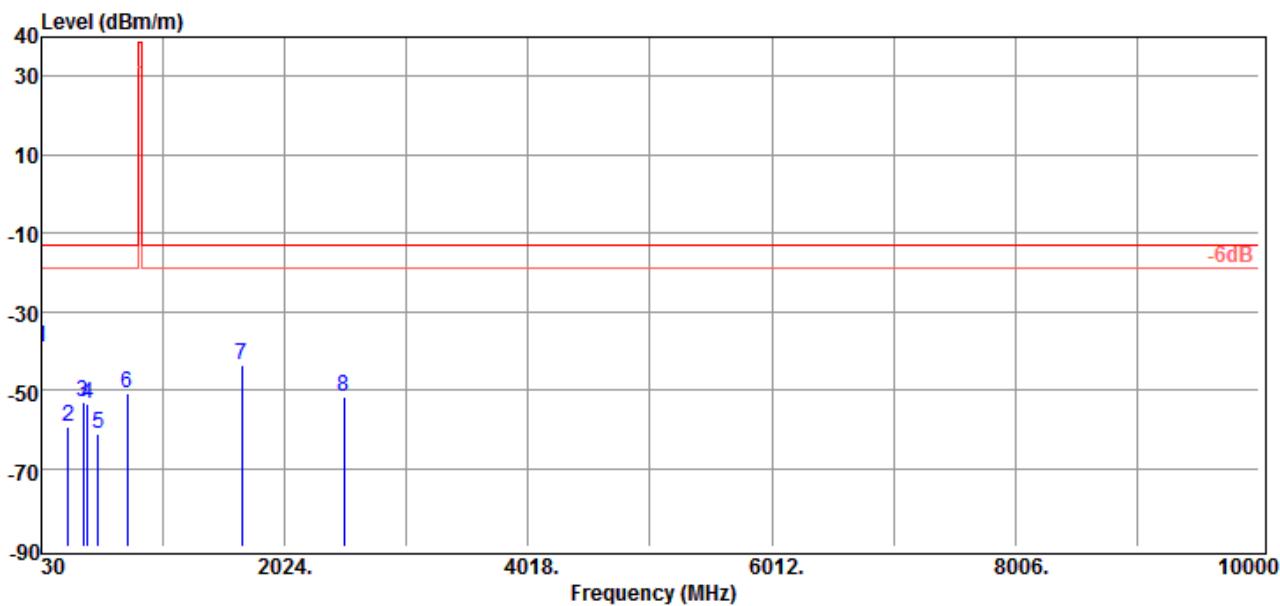
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.82	-38.33	-20.05	-0.44	-13.00	-45.82
102.75	-65.71	-64.18	-0.66	-0.87	-13.00	-52.71
268.62	-64.21	-68.14	5.44	-1.51	-13.00	-51.21
375.32	-64.70	-68.36	5.66	-2.00	-13.00	-51.70
425.76	-65.48	-69.26	5.83	-2.05	-13.00	-52.48
610.06	-64.23	-68.74	6.71	-2.20	-13.00	-51.23
1673.00	-37.91	-42.95	8.90	-3.86	-13.00	-24.91
2509.50	-44.44	-50.76	10.71	-4.39	-13.00	-31.44

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Operation Mode	:LTEM1B5 3M QPSK RB1,0	Test Date	:2018-11-23
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:836.5 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
33.88	-39.05	-21.92	-16.63	-0.50	-13.00	-26.05
249.22	-59.52	-63.26	5.18	-1.44	-13.00	-46.52
375.32	-53.10	-56.76	5.66	-2.00	-13.00	-40.10
405.39	-53.64	-57.21	5.61	-2.04	-13.00	-40.64
491.72	-61.17	-64.90	6.26	-2.53	-13.00	-48.17
730.34	-50.77	-56.00	7.37	-2.14	-13.00	-37.77
1673.00	-43.83	-48.87	8.90	-3.86	-13.00	-30.83
2509.50	-51.81	-58.13	10.71	-4.39	-13.00	-38.81

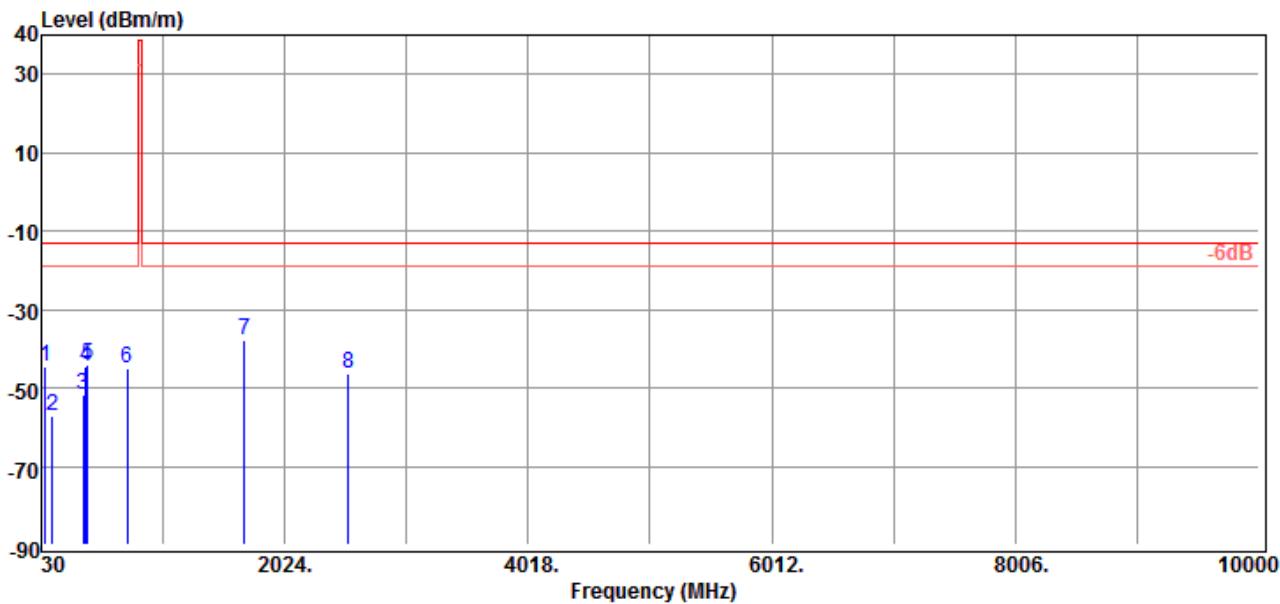
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Operation Mode :LTEM1B5 3M QPSK RB1,0  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan  
 Test Channel :847.5 MHz

Test Date :2018-11-23  
 Temp./Humi. :25/60  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
64.92	-44.50	-43.67	-0.14	-0.69	-13.00	-31.50
117.30	-57.05	-56.60	0.46	-0.91	-13.00	-44.05
375.32	-51.76	-55.42	5.66	-2.00	-13.00	-38.76
394.72	-44.56	-48.10	5.57	-2.03	-13.00	-31.56
405.39	-43.98	-47.55	5.61	-2.04	-13.00	-30.98
730.34	-44.81	-50.04	7.37	-2.14	-13.00	-31.81
1695.00	-37.87	-42.97	8.99	-3.89	-13.00	-24.87
2542.50	-46.22	-52.58	10.76	-4.40	-13.00	-33.22

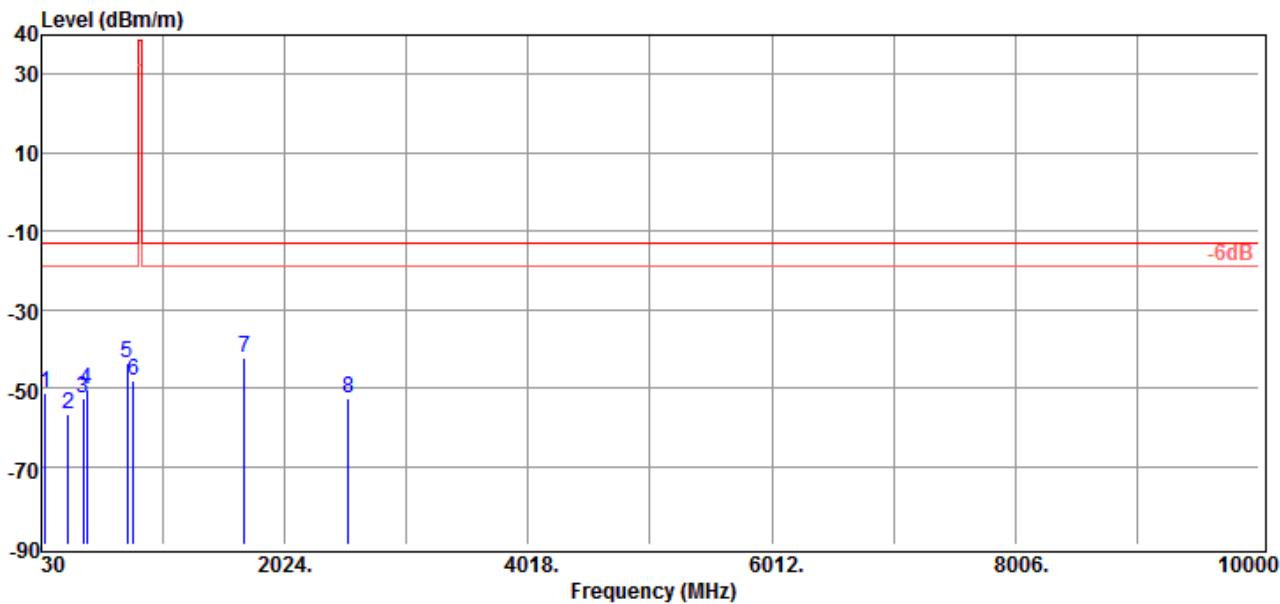
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Operation Mode :LTEM1B5 3M QPSK RB1,0  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan  
 Test Channel :847.5 MHz

Test Date :2018-11-23  
 Temp./Humi. :25/60  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit	Margin
					dBm	dB
64.92	-51.43	-50.60	-0.14	-0.69	-13.00	-38.43
250.19	-56.75	-60.48	5.17	-1.44	-13.00	-43.75
375.32	-52.75	-56.41	5.66	-2.00	-13.00	-39.75
400.54	-50.58	-54.10	5.56	-2.04	-13.00	-37.58
730.34	-43.79	-49.02	7.37	-2.14	-13.00	-30.79
784.66	-47.97	-53.17	7.52	-2.32	-13.00	-34.97
1695.00	-42.16	-47.26	8.99	-3.89	-13.00	-29.16
2542.50	-52.67	-59.03	10.76	-4.40	-13.00	-39.67

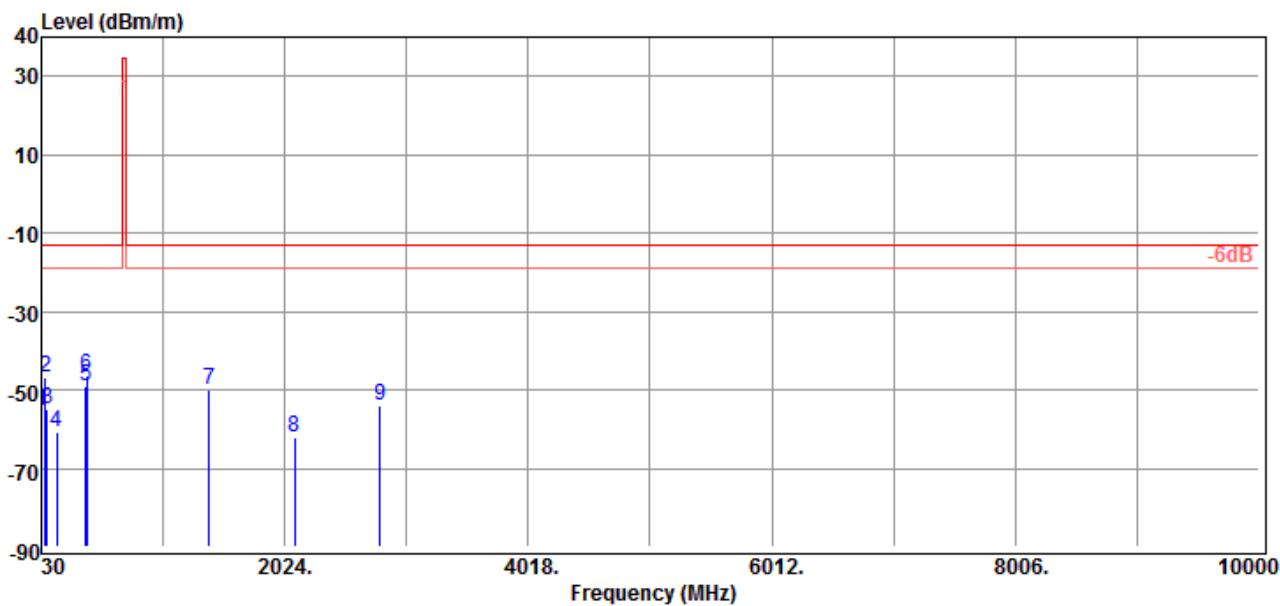
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## Radiated Spurious Emission Measurement Result: LTE-Band 12 (The Worst Case)

Operation Mode	:LTEM1B12 5M QPSK RB1,5	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:701.5 MHz	Engineer	:Ashton



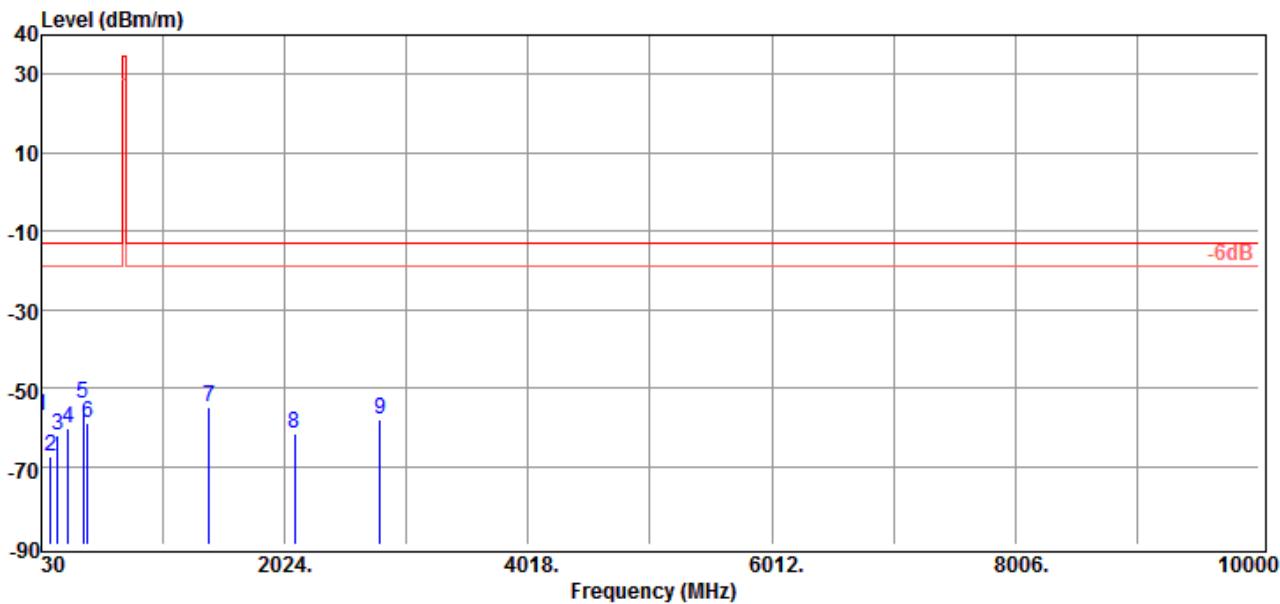
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-55.37	-35.76	-19.15	-0.46	-13.00	-42.37
60.07	-47.01	-45.54	-0.82	-0.65	-13.00	-34.01
78.50	-54.91	-54.79	0.65	-0.77	-13.00	-41.91
156.10	-60.87	-62.83	2.99	-1.03	-13.00	-47.87
393.75	-49.16	-52.71	5.58	-2.03	-13.00	-36.16
401.51	-46.44	-49.97	5.57	-2.04	-13.00	-33.44
1403.00	-49.75	-53.97	7.70	-3.48	-13.00	-36.75
2104.50	-61.98	-67.99	10.31	-4.30	-13.00	-48.98
2806.00	-54.20	-60.79	11.08	-4.49	-13.00	-41.20

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Operation Mode	:LTEM1B12 5M QPSK RB1,5	Test Date	:2018-11-23
Test Mode	:TX CH LOW	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:701.5 MHz	Engineer	:Ashton



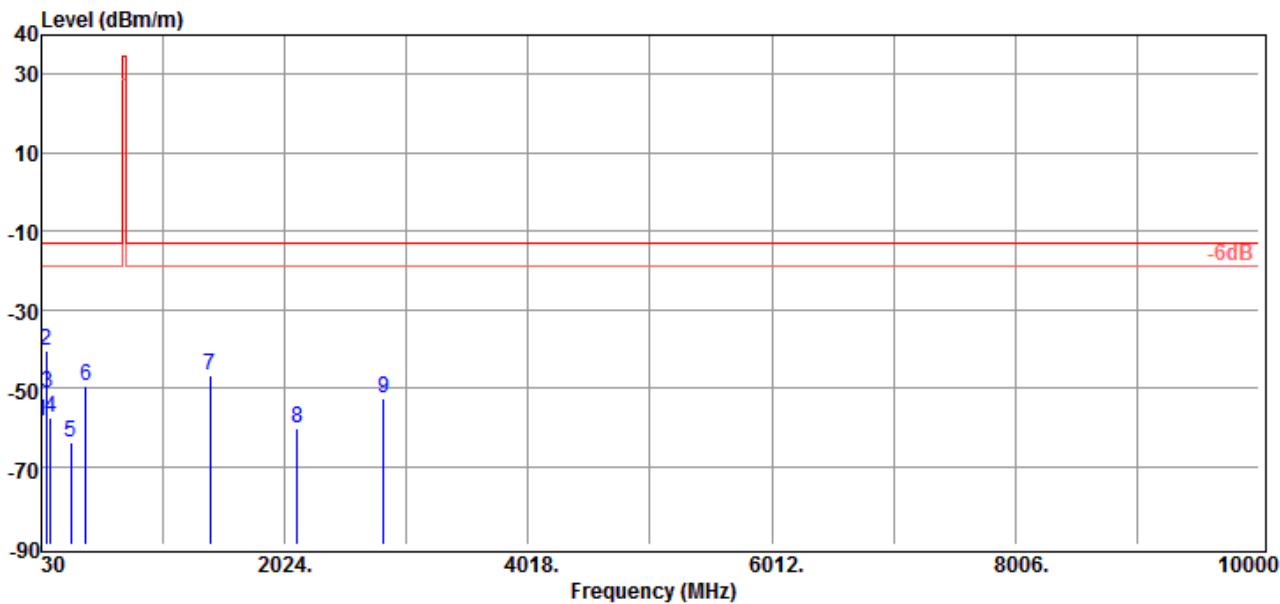
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-57.14	-36.65	-20.05	-0.44	-13.00	-44.14
104.69	-67.69	-66.31	-0.50	-0.88	-13.00	-54.69
160.95	-61.96	-64.25	3.34	-1.05	-13.00	-48.96
250.19	-60.53	-64.26	5.17	-1.44	-13.00	-47.53
375.32	-54.21	-57.87	5.66	-2.00	-13.00	-41.21
407.33	-58.94	-62.53	5.63	-2.04	-13.00	-45.94
1403.00	-54.74	-58.96	7.70	-3.48	-13.00	-41.74
2104.50	-61.49	-67.50	10.31	-4.30	-13.00	-48.49
2806.00	-58.25	-64.84	11.08	-4.49	-13.00	-45.25

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Operation Mode :LTEM1B12 5M QPSK RB1,5 Test Date :2018-11-23  
 Test Mode :TX CH MID Temp./Humi. :25/60  
 EUT Pol :E2 Plan Antenna Pol. :VERTICAL  
 Test Channel :707.5 MHz Engineer :Ashton



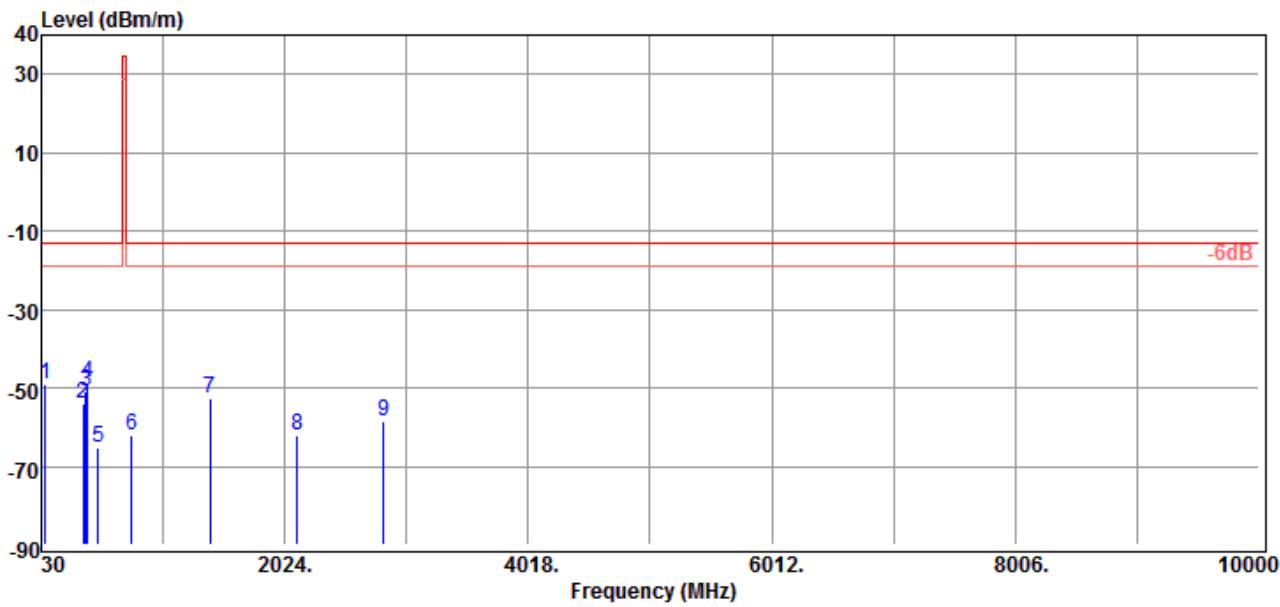
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit	Margin
					dBm	dB
30.00	-58.38	-37.89	-20.05	-0.44	-13.00	-45.38
66.86	-40.46	-39.87	0.11	-0.70	-13.00	-27.46
76.56	-51.34	-51.20	0.62	-0.76	-13.00	-38.34
102.75	-57.84	-56.31	-0.66	-0.87	-13.00	-44.84
271.53	-63.77	-67.73	5.48	-1.52	-13.00	-50.77
395.69	-49.49	-53.03	5.57	-2.03	-13.00	-36.49
1415.00	-47.01	-51.26	7.75	-3.50	-13.00	-34.01
2122.50	-60.20	-66.22	10.33	-4.31	-13.00	-47.20
2830.00	-52.70	-59.31	11.11	-4.50	-13.00	-39.70

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Operation Mode :LTEM1B12 5M QPSK RB1,5 Test Date :2018-11-23  
 Test Mode :TX CH MID Temp./Humi. :25/60  
 EUT Pol :E2 Plan Antenna Pol. :HORIZONTAL  
 Test Channel :707.5 MHz Engineer :Ashton



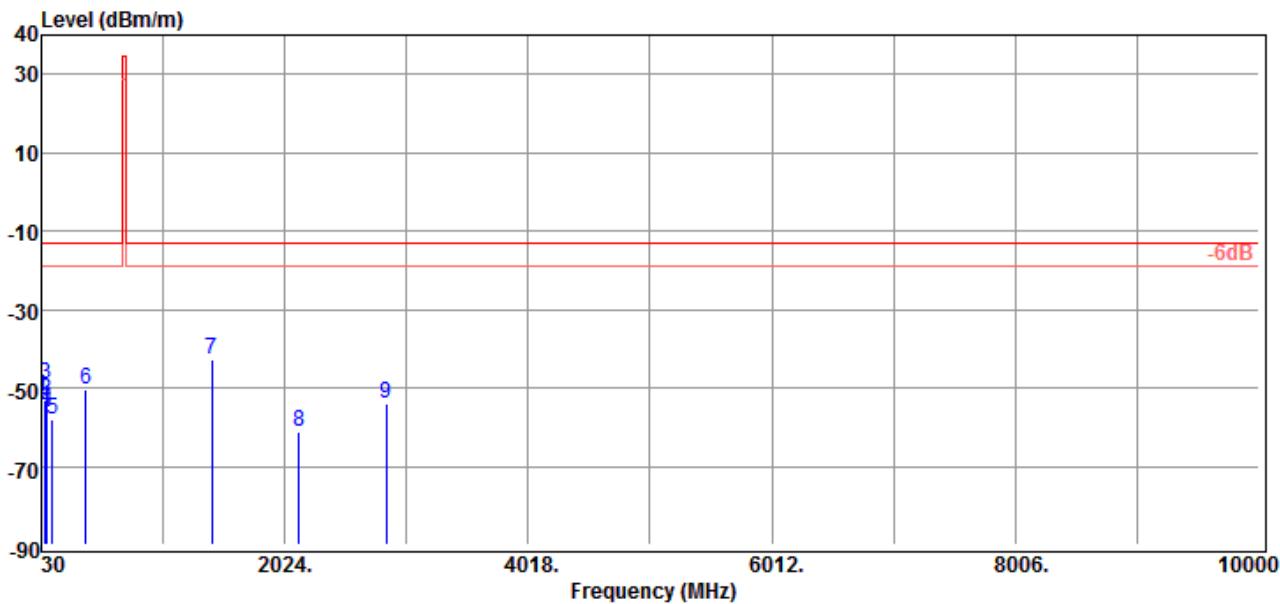
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
62.98	-48.91	-47.83	-0.41	-0.67	-13.00	-35.91
375.32	-54.12	-57.78	5.66	-2.00	-13.00	-41.12
395.69	-50.81	-54.35	5.57	-2.03	-13.00	-37.81
409.27	-48.54	-52.15	5.65	-2.04	-13.00	-35.54
496.57	-65.07	-68.77	6.28	-2.58	-13.00	-52.07
772.05	-61.99	-67.25	7.48	-2.22	-13.00	-48.99
1415.00	-52.63	-56.88	7.75	-3.50	-13.00	-39.63
2122.50	-62.12	-68.14	10.33	-4.31	-13.00	-49.12
2830.00	-58.65	-65.26	11.11	-4.50	-13.00	-45.65

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Operation Mode :LTEM1B12 5M QPSK RB1,5 Test Date :2018-11-23  
 Test Mode :TX CH HIGH Temp./Humi. :25/60  
 EUT Pol :E2 Plan Antenna Pol. :VERTICAL  
 Test Channel :713.5 MHz Engineer :Ashton



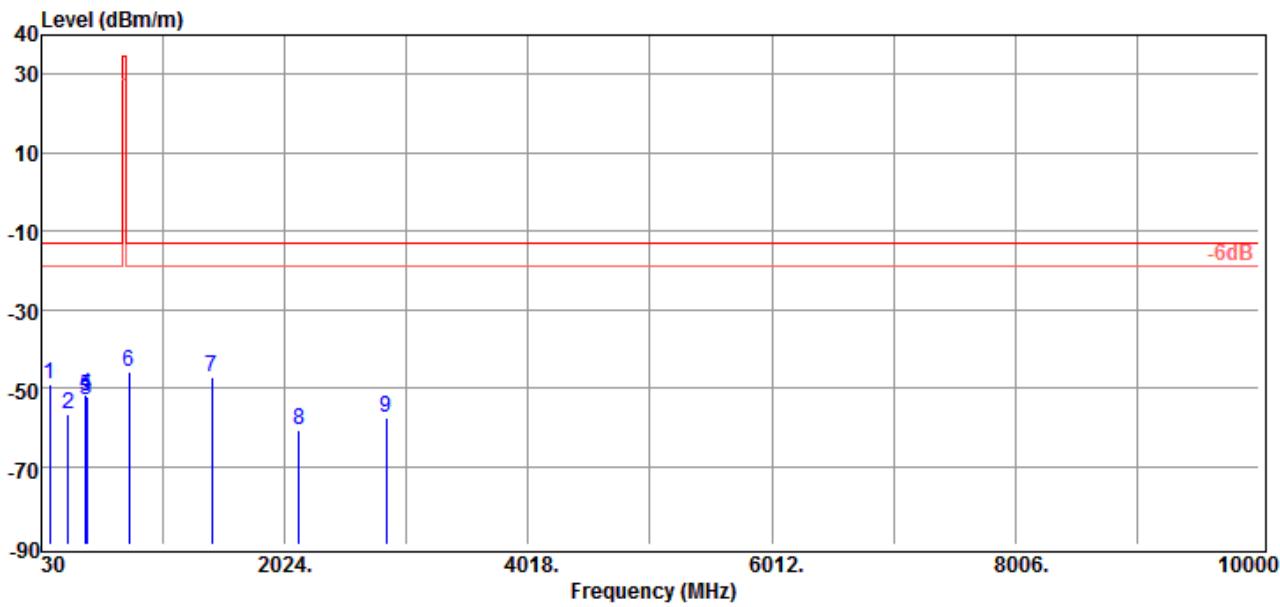
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-52.19	-32.58	-19.15	-0.46	-13.00	-39.19
62.01	-53.14	-51.94	-0.54	-0.66	-13.00	-40.14
68.80	-48.97	-48.61	0.36	-0.72	-13.00	-35.97
74.62	-55.51	-55.35	0.59	-0.75	-13.00	-42.51
122.15	-58.08	-57.95	0.80	-0.93	-13.00	-45.08
396.66	-50.30	-53.84	5.57	-2.03	-13.00	-37.30
1427.00	-42.67	-46.95	7.80	-3.52	-13.00	-29.67
2140.50	-61.28	-67.32	10.35	-4.31	-13.00	-48.28
2854.00	-53.93	-60.56	11.14	-4.51	-13.00	-40.93

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Operation Mode :LTEM1B12 5M QPSK RB1,5 Test Date :2018-11-23  
 Test Mode :TX CH HIGH Temp./Humi. :25/60  
 EUT Pol :E2 Plan Antenna Pol. :HORIZONTAL  
 Test Channel :713.5 MHz Engineer :Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
94.99	-49.02	-47.72	-0.46	-0.84	-13.00	-36.02
249.22	-56.78	-60.52	5.18	-1.44	-13.00	-43.78
390.84	-53.22	-56.79	5.59	-2.02	-13.00	-40.22
395.69	-51.79	-55.33	5.57	-2.03	-13.00	-38.79
403.45	-52.06	-55.61	5.59	-2.04	-13.00	-39.06
746.83	-45.73	-51.06	7.40	-2.07	-13.00	-32.73
1427.00	-47.11	-51.39	7.80	-3.52	-13.00	-34.11
2140.50	-60.81	-66.85	10.35	-4.31	-13.00	-47.81
2854.00	-57.64	-64.27	11.14	-4.51	-13.00	-44.64

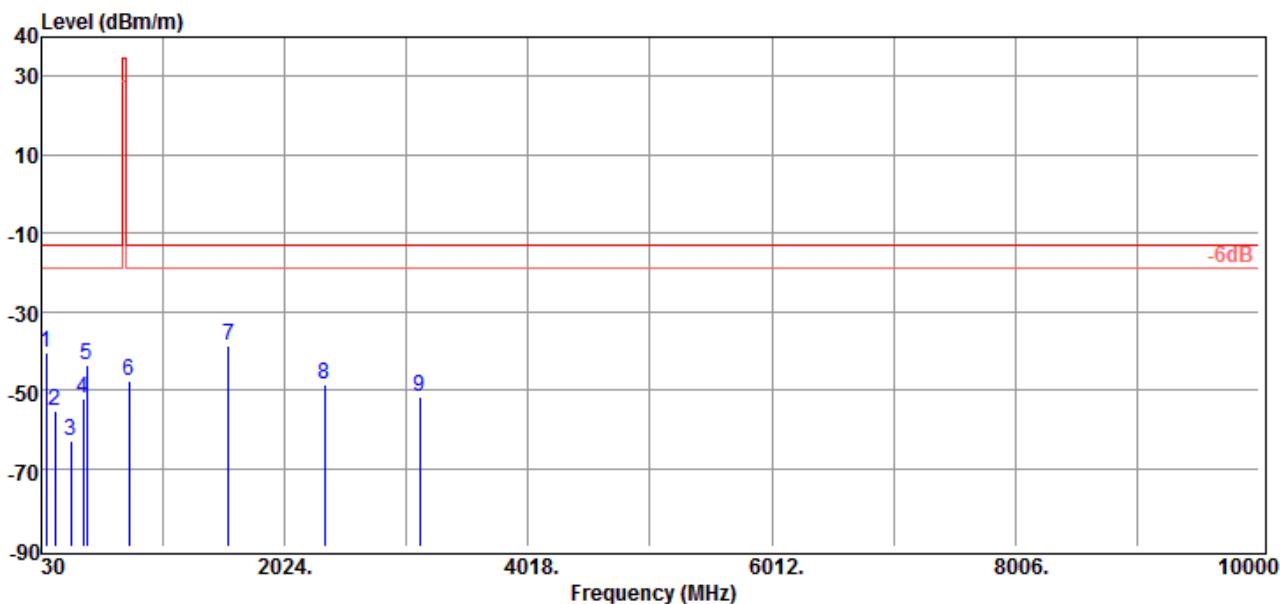
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## Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Operation Mode	:LTEM1B13 10M 16QAM	Test Date	:2018-11-23
	RB1,0		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:782 MHz	Engineer	:Ashton



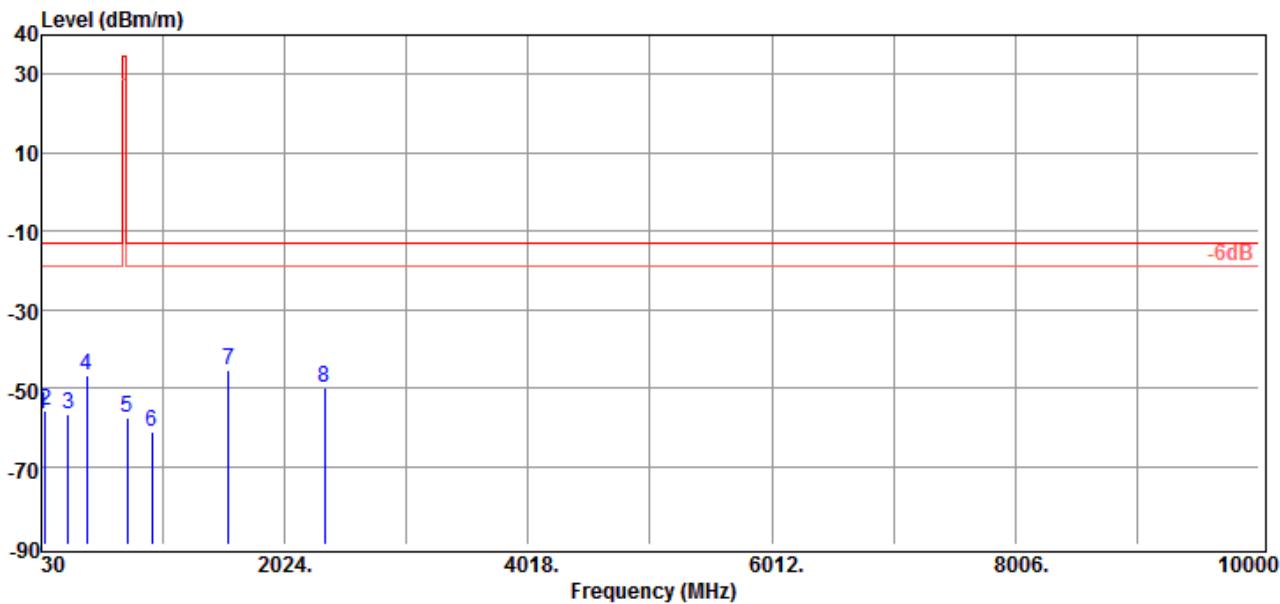
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.80	-40.74	-40.38	0.36	-0.72	-13.00	-27.74
140.58	-55.38	-56.39	1.98	-0.97	-13.00	-42.38
274.44	-63.19	-67.18	5.52	-1.53	-13.00	-50.19
375.32	-52.16	-55.82	5.66	-2.00	-13.00	-39.16
404.42	-43.79	-47.35	5.60	-2.04	-13.00	-30.79
746.83	-47.86	-53.19	7.40	-2.07	-13.00	-34.86
1564.00	-38.78	-43.41	8.33	-3.70	-13.00	-25.78
2346.00	-48.47	-54.67	10.56	-4.36	-13.00	-35.47
3128.00	-51.91	-58.29	11.57	-5.19	-13.00	-38.91

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Operation Mode	:LTEM1B13 10M 16QAM	Test Date	:2018-11-23
	RB1,0		
Test Mode	:TX CH MID	Temp./Humi.	:25/60
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:782 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-56.75	-36.26	-20.05	-0.44	-13.00	-43.75
62.98	-55.76	-54.68	-0.41	-0.67	-13.00	-42.76
250.19	-56.80	-60.53	5.17	-1.44	-13.00	-43.80
400.54	-46.91	-50.43	5.56	-2.04	-13.00	-33.91
730.34	-57.50	-62.73	7.37	-2.14	-13.00	-44.50
935.98	-61.07	-66.06	7.64	-2.65	-13.00	-48.07
1564.00	-45.26	-49.89	8.33	-3.70	-13.00	-32.26
2346.00	-50.15	-56.35	10.56	-4.36	-13.00	-37.15

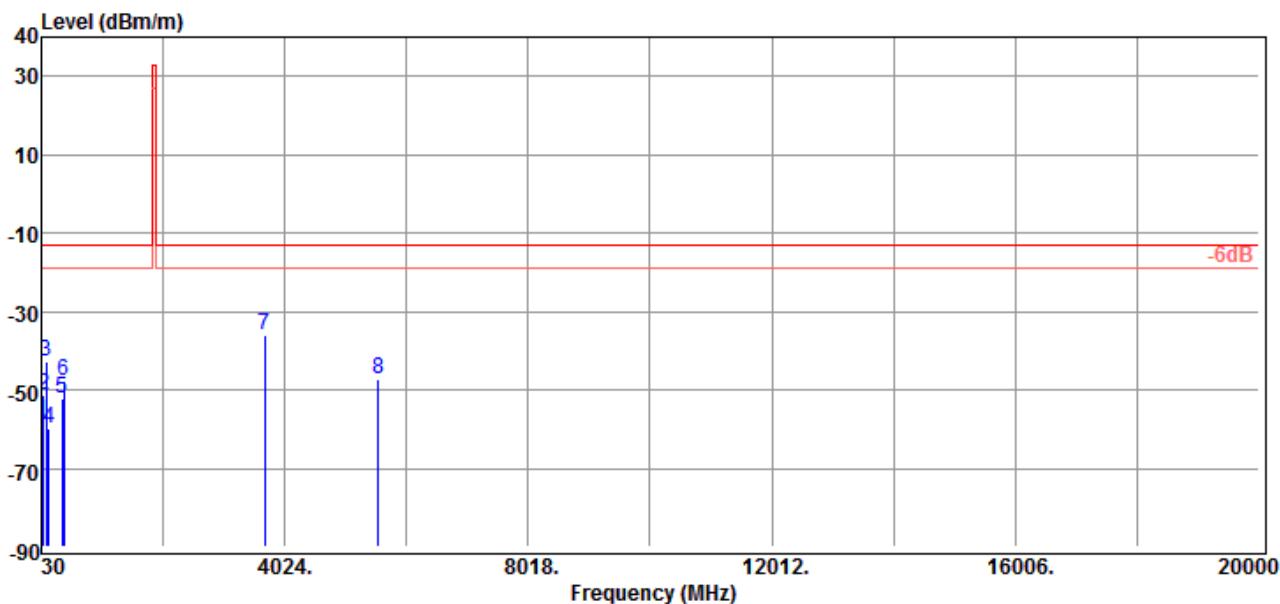
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## Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)(NB IoT)

Operation Mode	:NB lot B2 BPSK 15 RB 1,11	Test Date	:2018-11-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/59
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1850.1 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.28	-37.79	-20.05	-0.44	-13.00	-45.28
62.98	-51.23	-50.15	-0.41	-0.67	-13.00	-38.23
102.75	-42.63	-41.10	-0.66	-0.87	-13.00	-29.63
155.13	-60.08	-61.98	2.92	-1.02	-13.00	-47.08
375.32	-52.16	-55.82	5.66	-2.00	-13.00	-39.16
405.39	-47.78	-51.35	5.61	-2.04	-13.00	-34.78
3700.20	-35.90	-41.57	12.42	-6.75	-13.00	-22.90
5550.30	-47.32	-53.90	13.01	-6.43	-13.00	-34.32

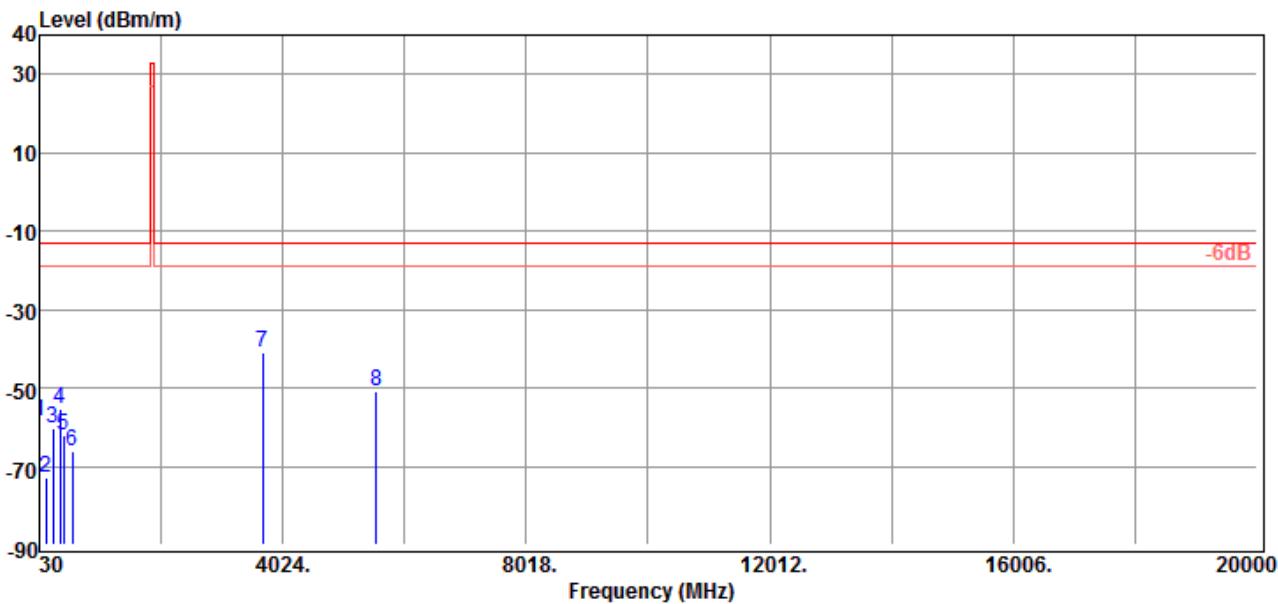
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Operation Mode :NB Iot B2 BPSK 15 RB 1,11  
 Test Mode :TX CH LOW  
 EUT Pol :E2 Plan  
 Test Channel :1850.1 MHz

Test Date :2018-11-22  
 Temp./Humi. :25/59  
 Antenna Pol. :HORIZONTAL  
 Engineer :Ashton



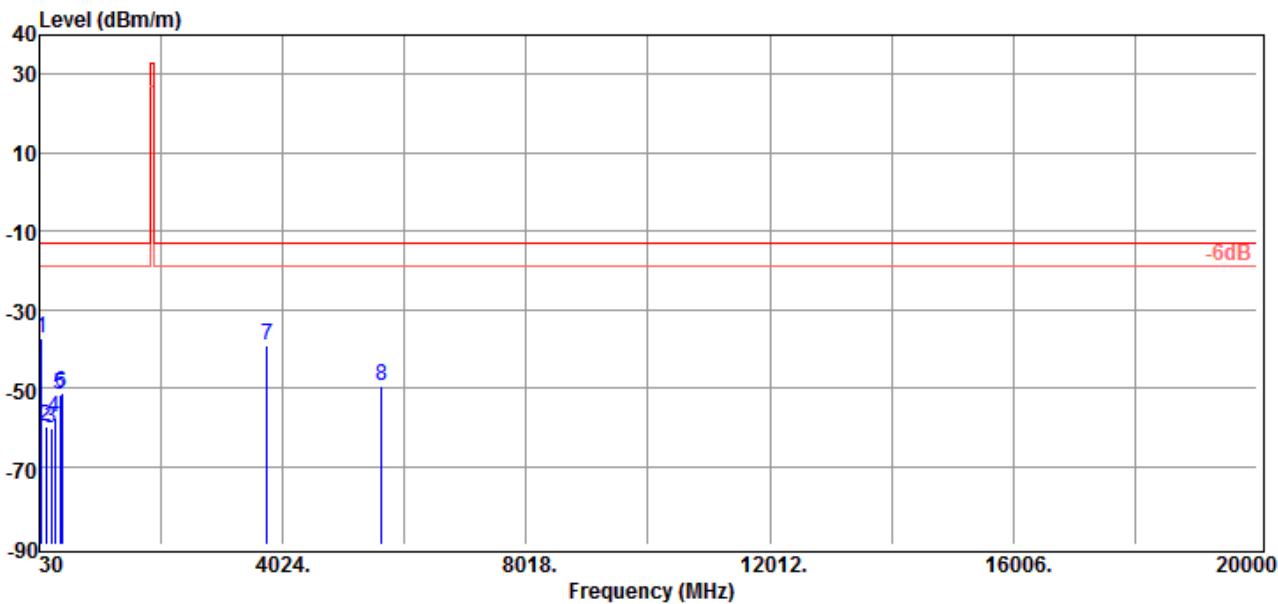
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.00	-58.60	-38.11	-20.05	-0.44	-13.00	-45.60
141.55	-72.85	-73.91	2.04	-0.98	-13.00	-59.85
250.19	-60.18	-63.91	5.17	-1.44	-13.00	-47.18
375.32	-55.28	-58.94	5.66	-2.00	-13.00	-42.28
424.79	-61.93	-65.70	5.82	-2.05	-13.00	-48.93
576.11	-66.03	-70.26	6.46	-2.23	-13.00	-53.03
3700.20	-41.12	-46.79	12.42	-6.75	-13.00	-28.12
5550.30	-50.93	-57.51	13.01	-6.43	-13.00	-37.93

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Operation Mode	:NB Iot B2 BPSK 15 RB 1,11	Test Date	:2018-11-22
Test Mode	:TX CH MID	Temp./Humi.	:25/59
EUT Pol	:E2 Plan	Antenna Pol.	:VERTICAL
Test Channel	:1880 MHz	Engineer	:Ashton



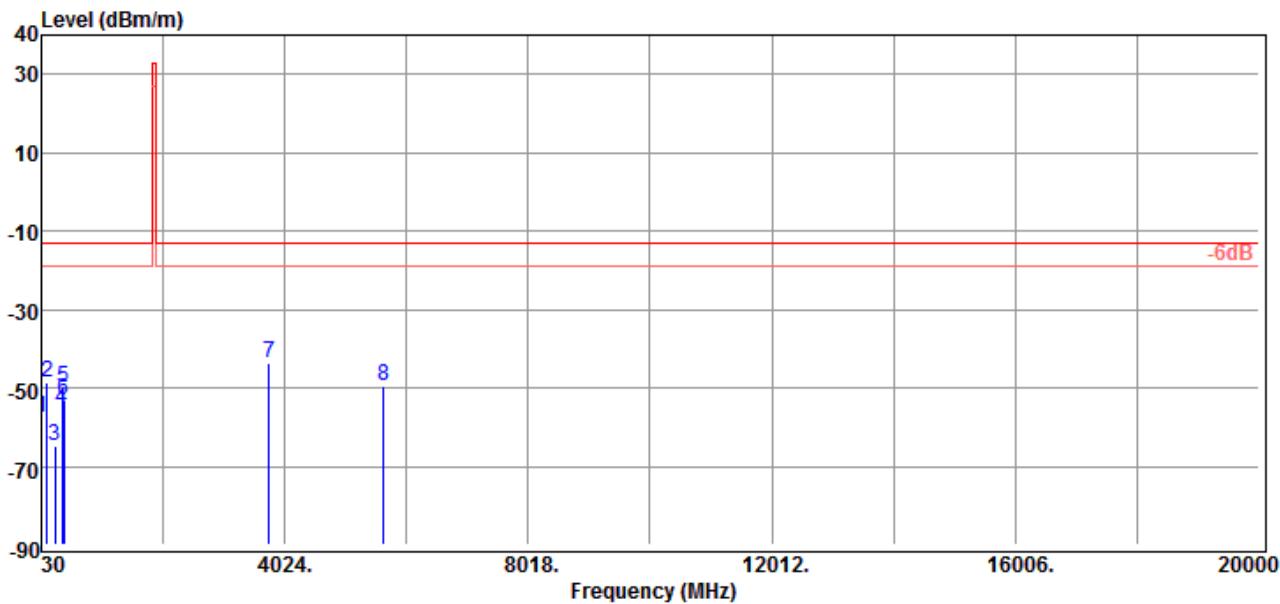
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
66.86	-37.25	-36.66	0.11	-0.70	-13.00	-24.25
141.55	-59.75	-60.81	2.04	-0.98	-13.00	-46.75
230.79	-60.26	-64.31	5.41	-1.36	-13.00	-47.26
281.23	-57.44	-61.50	5.61	-1.55	-13.00	-44.44
375.32	-51.88	-55.54	5.66	-2.00	-13.00	-38.88
403.45	-51.41	-54.96	5.59	-2.04	-13.00	-38.41
3760.00	-39.29	-45.08	12.46	-6.67	-13.00	-26.29
5640.00	-49.69	-56.12	13.03	-6.60	-13.00	-36.69

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Operation Mode	:NB Iot B2 BPSK 15 RB 1,11	Test Date	:2018-11-22
Test Mode	:TX CH MID	Temp./Humi.	:25/59
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1880 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit	Margin
					dBm	dB
30.00	-57.64	-37.15	-20.05	-0.44	-13.00	-44.64
127.97	-48.83	-49.08	1.19	-0.94	-13.00	-35.83
250.19	-64.65	-68.38	5.17	-1.44	-13.00	-51.65
375.32	-55.50	-59.16	5.66	-2.00	-13.00	-42.50
390.84	-50.02	-53.59	5.59	-2.02	-13.00	-37.02
399.57	-53.18	-56.69	5.55	-2.04	-13.00	-40.18
3760.00	-43.57	-49.36	12.46	-6.67	-13.00	-30.57
5640.00	-49.74	-56.17	13.03	-6.60	-13.00	-36.74

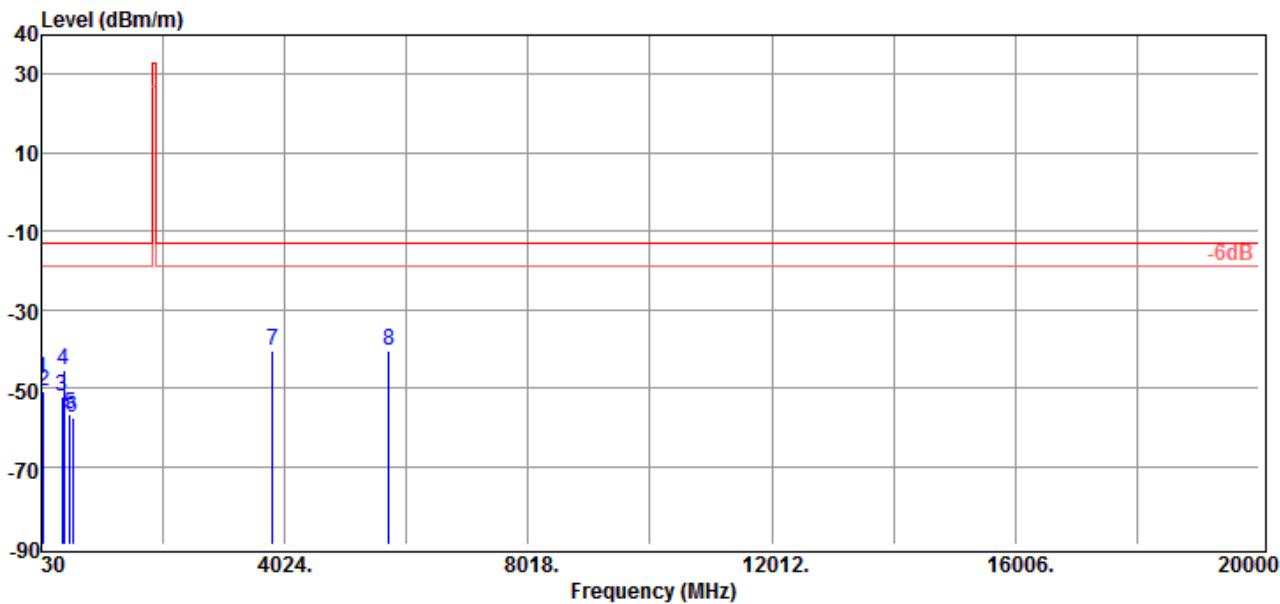
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Operation Mode :NB IoT B2 BPSK 15 RB 1,11  
 Test Mode :TX CH HIGH  
 EUT Pol :E2 Plan  
 Test Channel :1909.1 MHz

Test Date :2018-11-22  
 Temp./Humi. :25/59  
 Antenna Pol. :VERTICAL  
 Engineer :Ashton



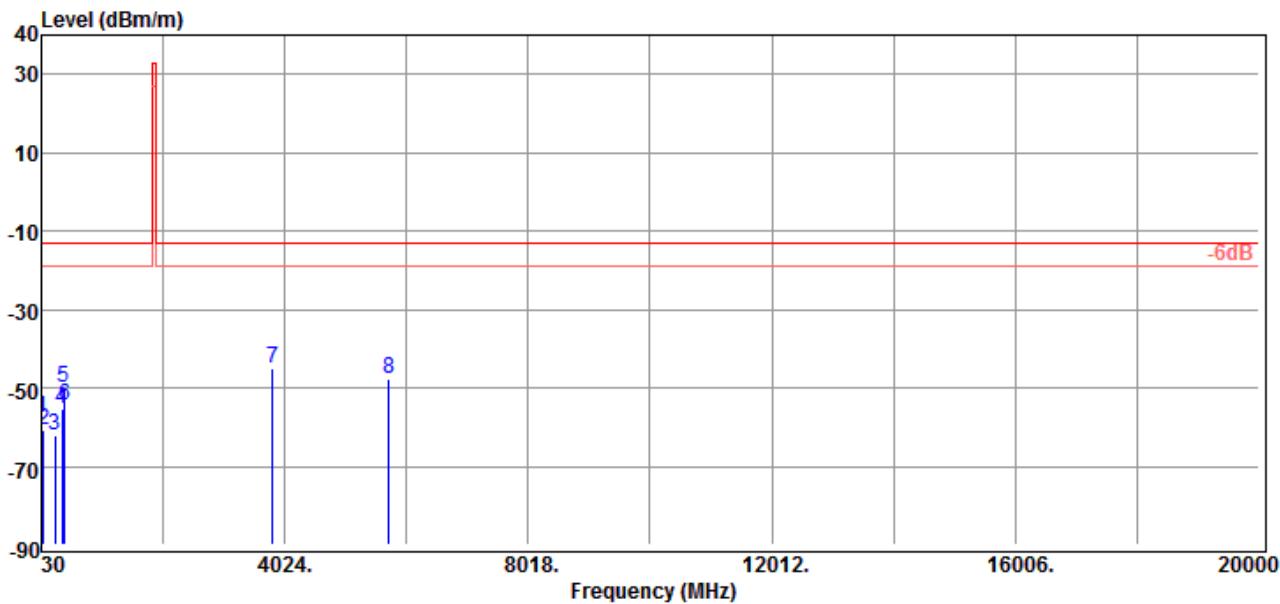
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-47.71	-28.10	-19.15	-0.46	-13.00	-34.71
64.92	-51.07	-50.24	-0.14	-0.69	-13.00	-38.07
375.32	-52.32	-55.98	5.66	-2.00	-13.00	-39.32
394.72	-45.57	-49.11	5.57	-2.03	-13.00	-32.57
495.60	-56.82	-60.52	6.27	-2.57	-13.00	-43.82
549.92	-57.58	-61.45	6.22	-2.35	-13.00	-44.58
3818.20	-40.54	-46.45	12.50	-6.59	-13.00	-27.54
5727.30	-40.31	-46.59	13.05	-6.77	-13.00	-27.31

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Operation Mode	:NB Iot B2 BPSK 15 RB 1,11	Test Date	:2018-11-22
Test Mode	:TX CH HIGH	Temp./Humi.	:25/59
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1909.1 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.47	-37.86	-19.15	-0.46	-13.00	-44.47
64.92	-60.71	-59.88	-0.14	-0.69	-13.00	-47.71
250.19	-62.02	-65.75	5.17	-1.44	-13.00	-49.02
374.35	-55.51	-59.19	5.67	-1.99	-13.00	-42.51
395.69	-49.90	-53.44	5.57	-2.03	-13.00	-36.90
407.33	-54.59	-58.18	5.63	-2.04	-13.00	-41.59
3818.20	-44.86	-50.77	12.50	-6.59	-13.00	-31.86
5727.30	-47.89	-54.17	13.05	-6.77	-13.00	-34.89

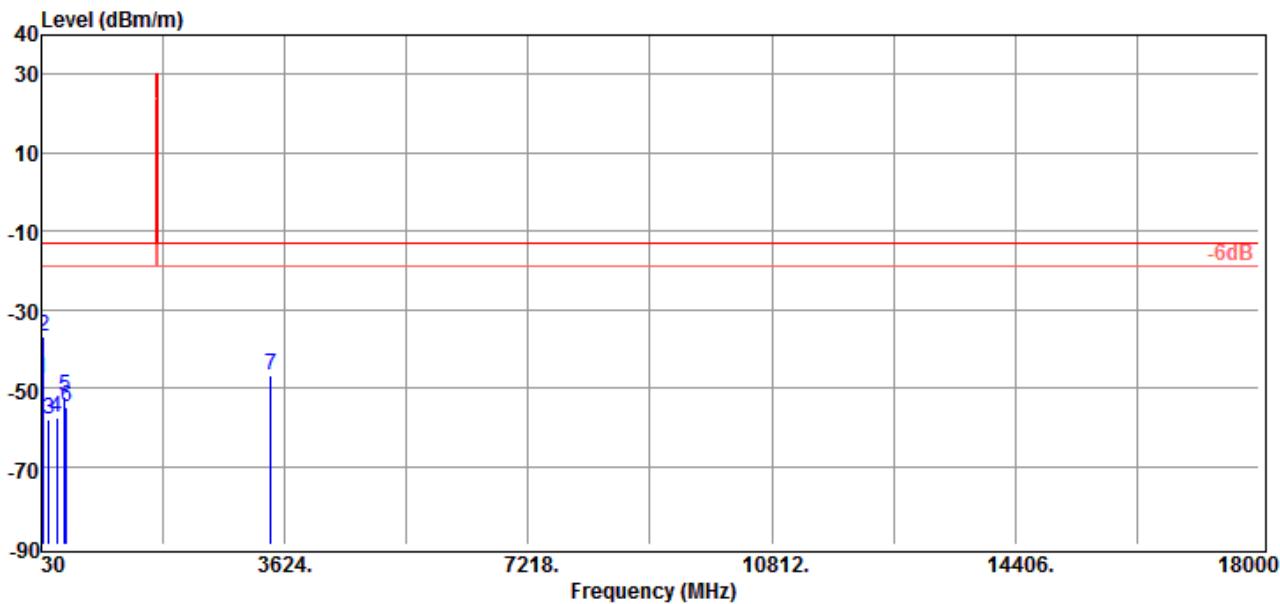
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**Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)**

Operation Mode :NB lot B4 BPSK 15 RB 1,11 Test Date :2018-11-22  
Test Mode :TX CH LOW Temp./Humi. :25/59  
EUT Pol :E2 Plan Antenna Pol. :VERTICAL  
Test Channel :1710.1 MHz Engineer :Ashton



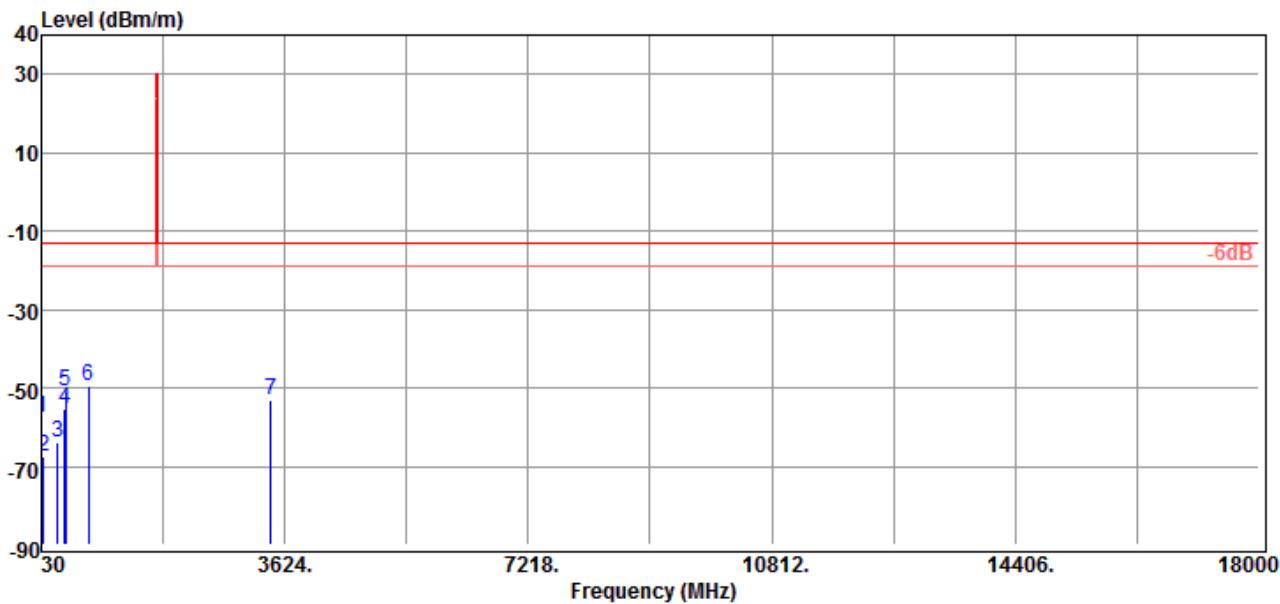
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
36.79	-47.55	-32.69	-14.31	-0.55	-13.00	-34.55
63.95	-36.94	-35.98	-0.28	-0.68	-13.00	-23.94
146.40	-58.16	-59.50	2.33	-0.99	-13.00	-45.16
262.80	-57.62	-61.49	5.36	-1.49	-13.00	-44.62
375.32	-52.13	-55.79	5.66	-2.00	-13.00	-39.13
402.48	-54.80	-58.34	5.58	-2.04	-13.00	-41.80
3420.20	-46.89	-52.42	12.15	-6.62	-13.00	-33.89

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Operation Mode	:NB IoT B4 BPSK 15 RB 1,11	Test Date	:2018-11-22
Test Mode	:TX CH LOW	Temp./Humi.	:25/59
EUT Pol	:E2 Plan	Antenna Pol.	:HORIZONTAL
Test Channel	:1710.1 MHz	Engineer	:Ashton



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
30.97	-57.53	-37.92	-19.15	-0.46	-13.00	-44.53
58.13	-67.61	-65.46	-1.50	-0.65	-13.00	-54.61
269.59	-64.04	-67.98	5.45	-1.51	-13.00	-51.04
375.32	-55.32	-58.98	5.66	-2.00	-13.00	-42.32
391.81	-50.79	-54.35	5.59	-2.03	-13.00	-37.79
730.34	-49.44	-54.67	7.37	-2.14	-13.00	-36.44
3420.20	-53.02	-58.55	12.15	-6.62	-13.00	-40.02

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