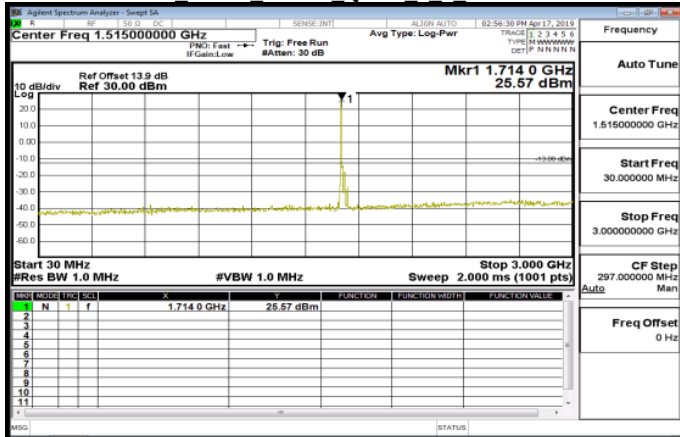
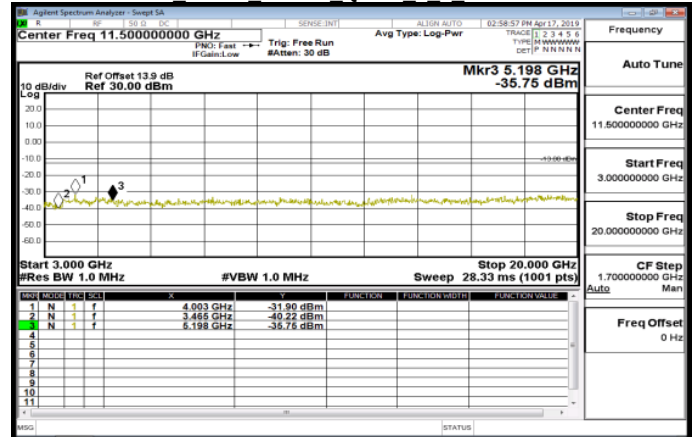


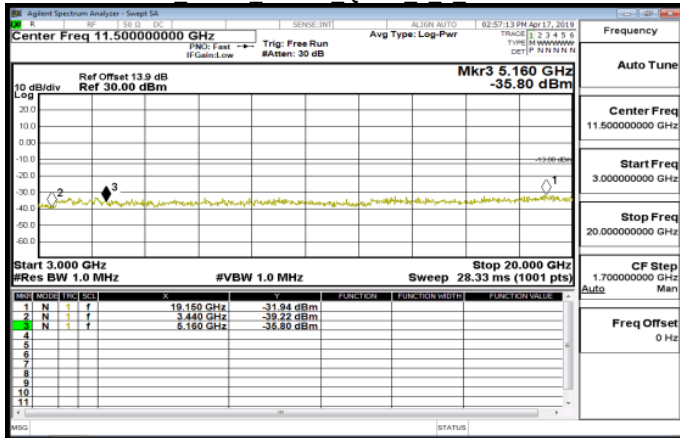
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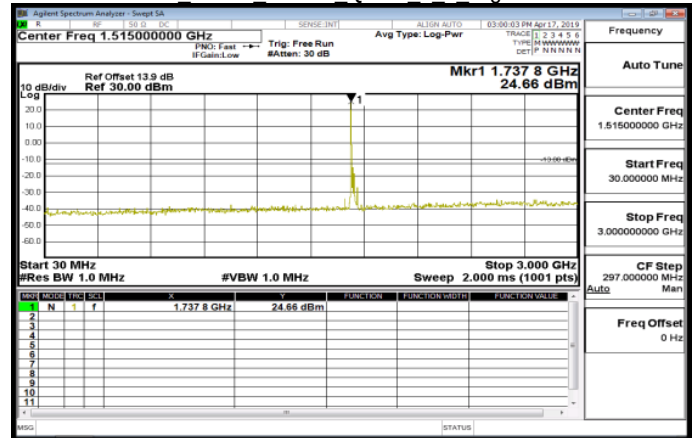
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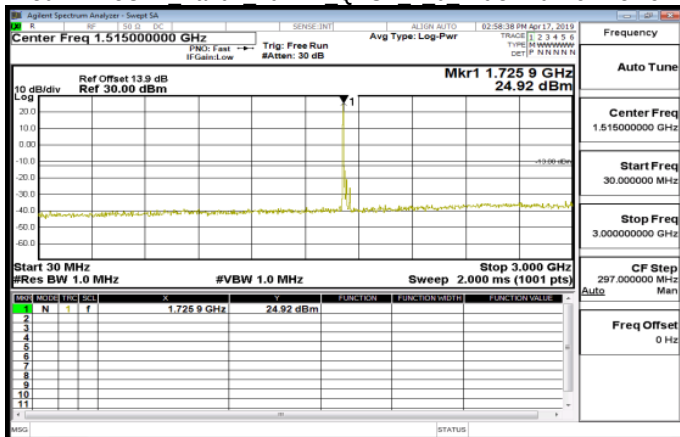
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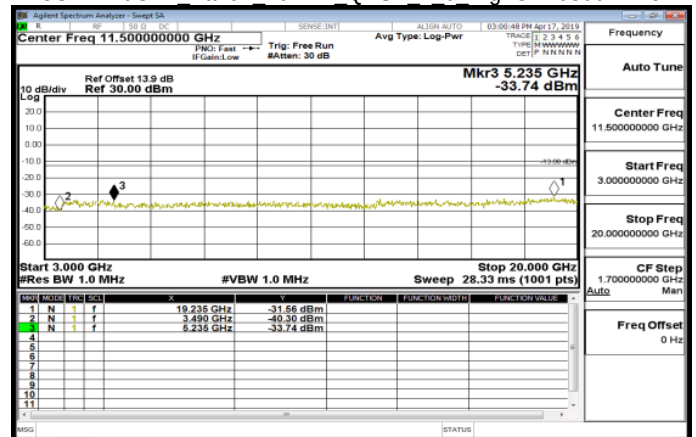
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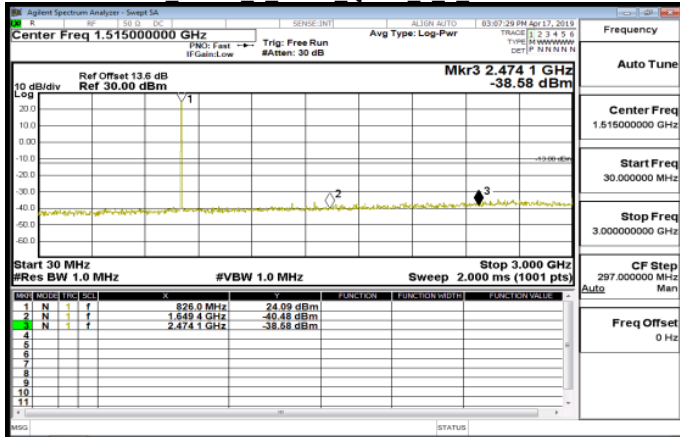


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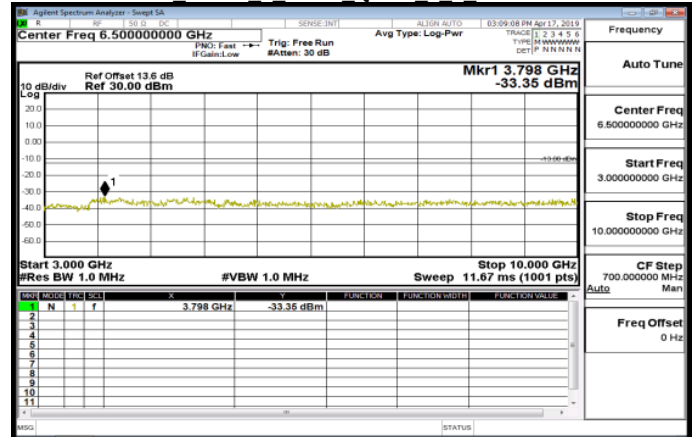
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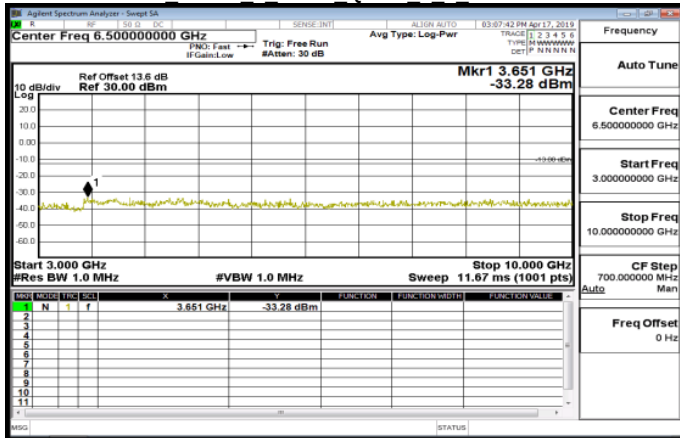
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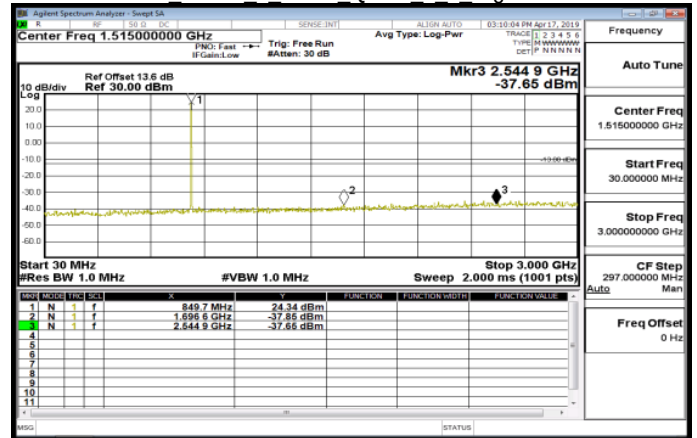
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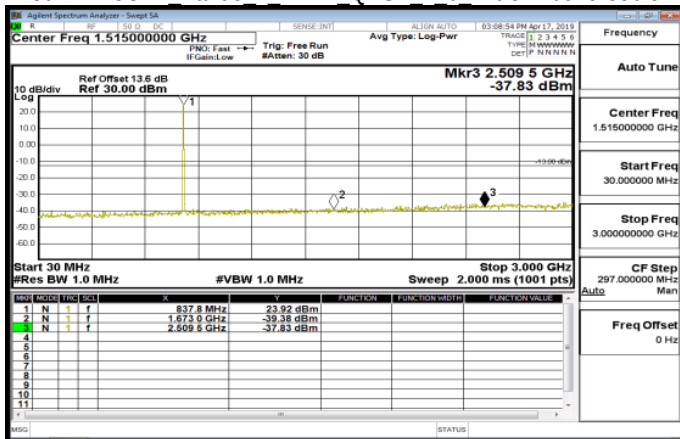
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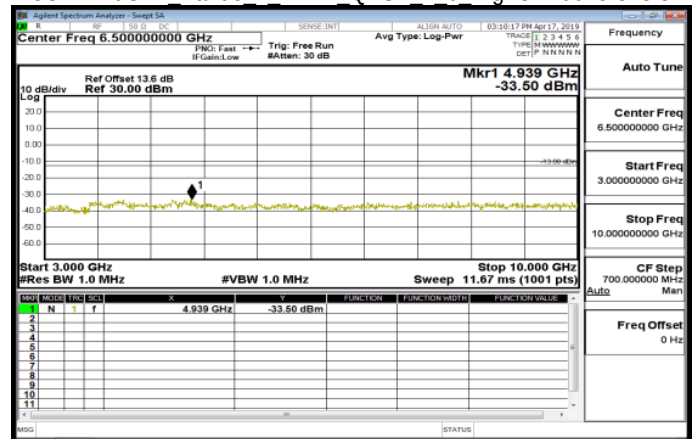
30MHz~3GHz Band5 1 4MHz QPSK 1 0 HighCH20643-848.3



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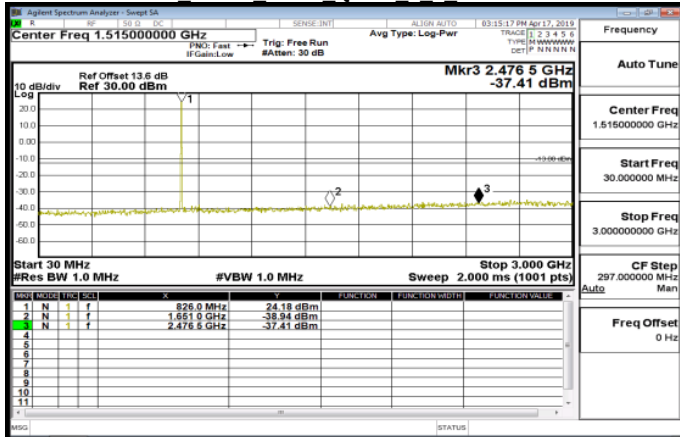


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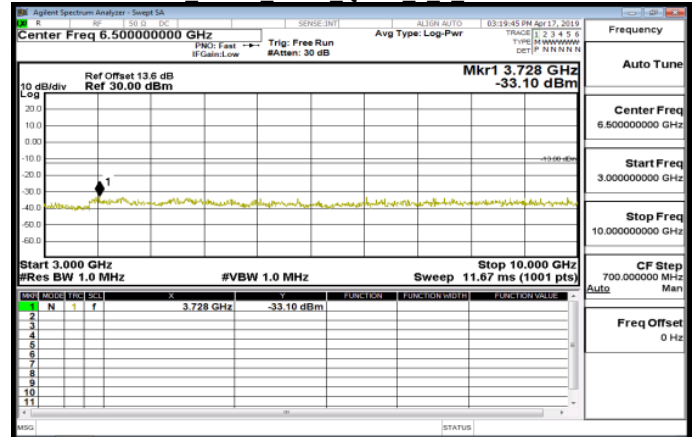
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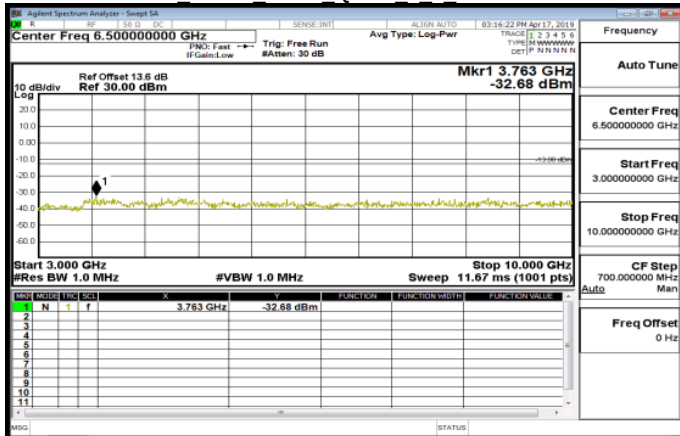
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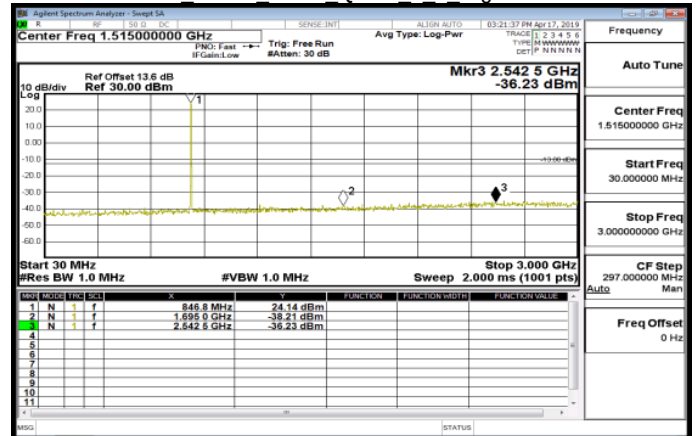
3GHz~10GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



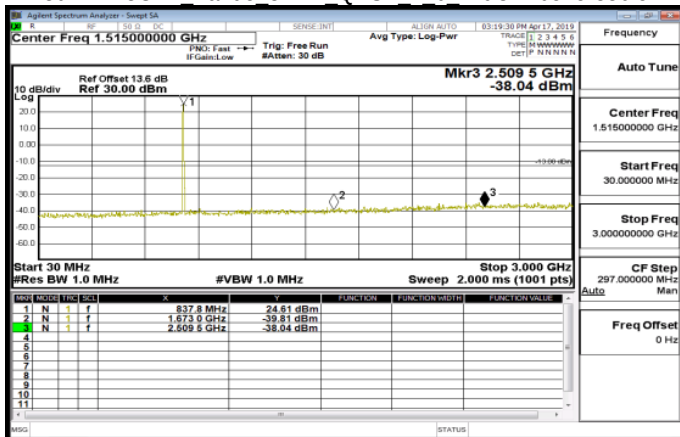
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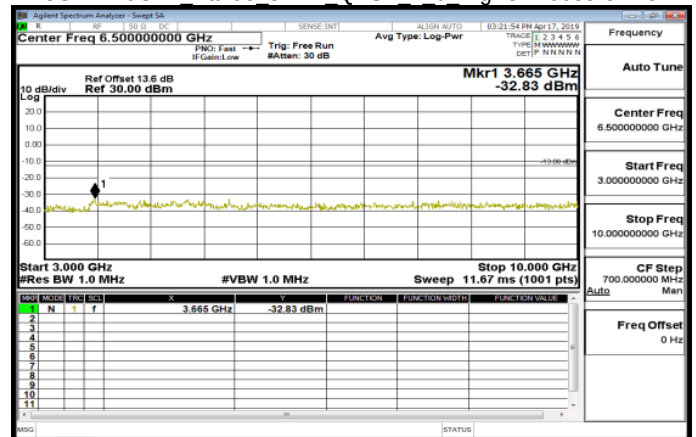
30MHz~3GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5



30MHz~3GHz Band5 3MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 3MHz QPSK 1 0 HighCH20635-847.5

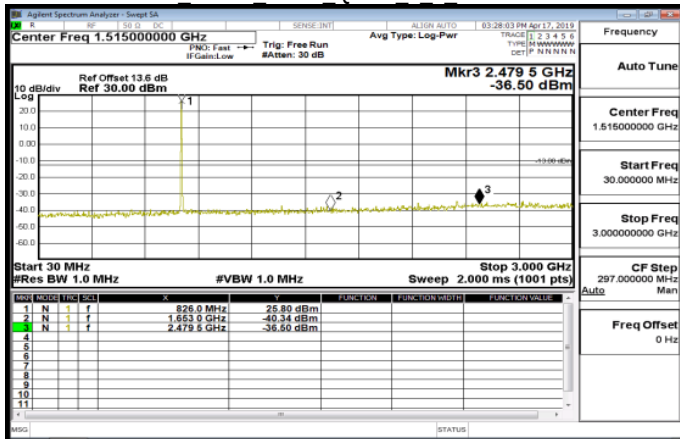


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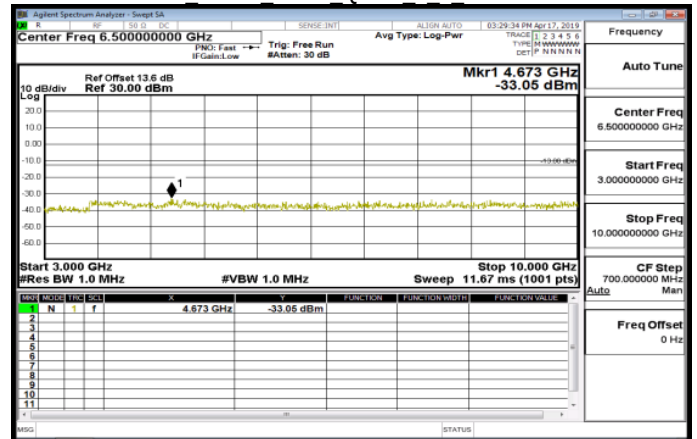
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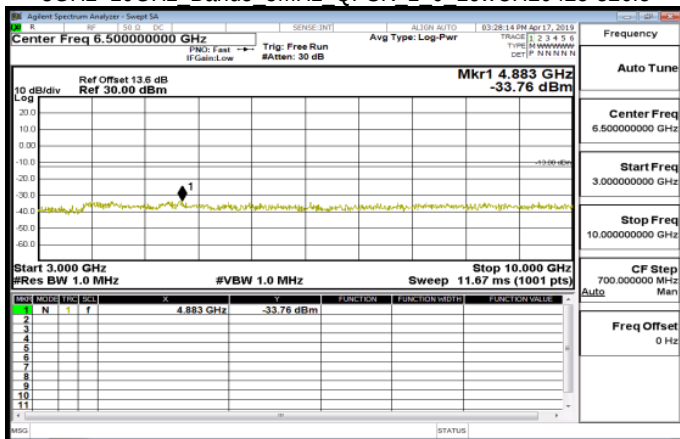
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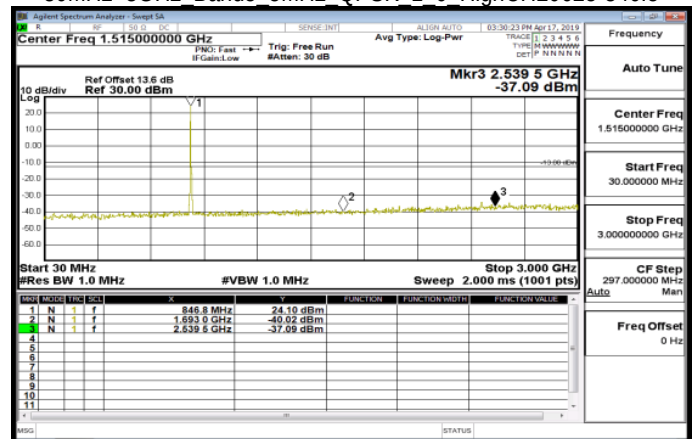
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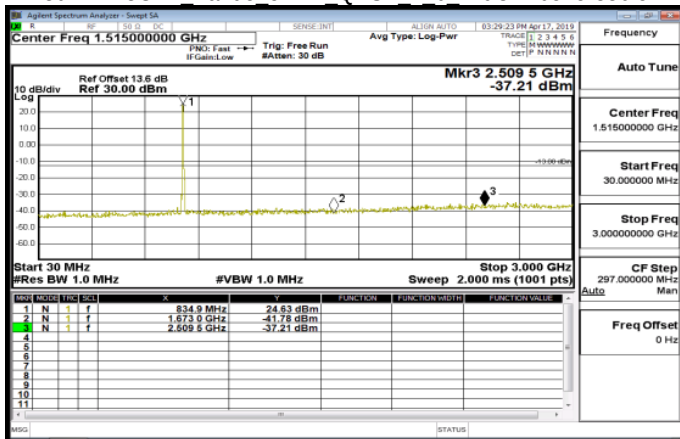
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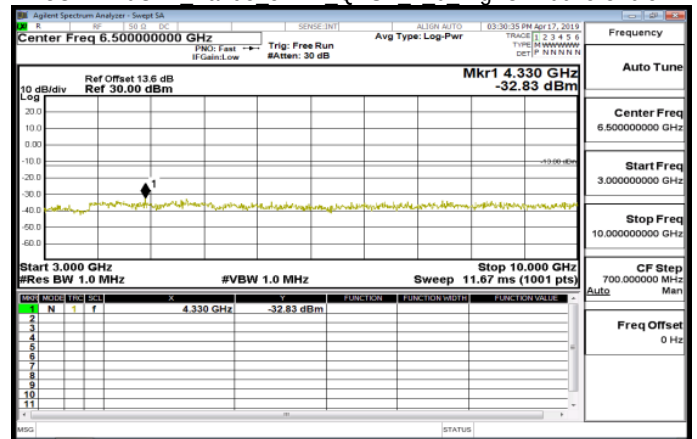
30MHz~3GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5



30MHz~3GHz Band5 5MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 5MHz QPSK 1 0 HighCH20625-846.5

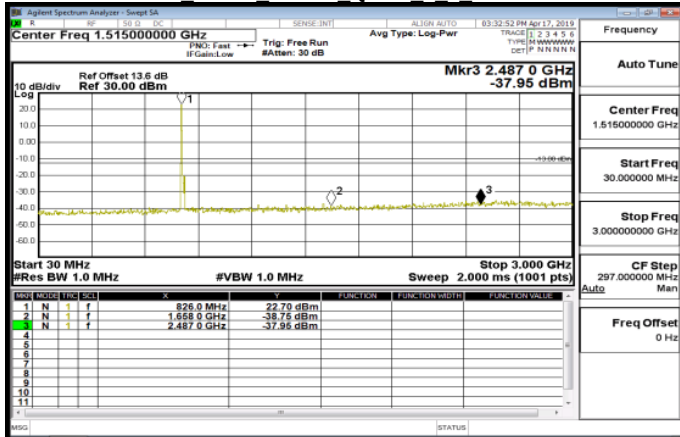


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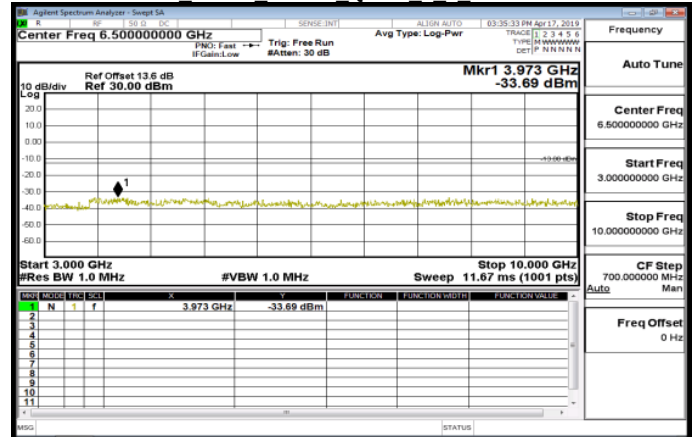
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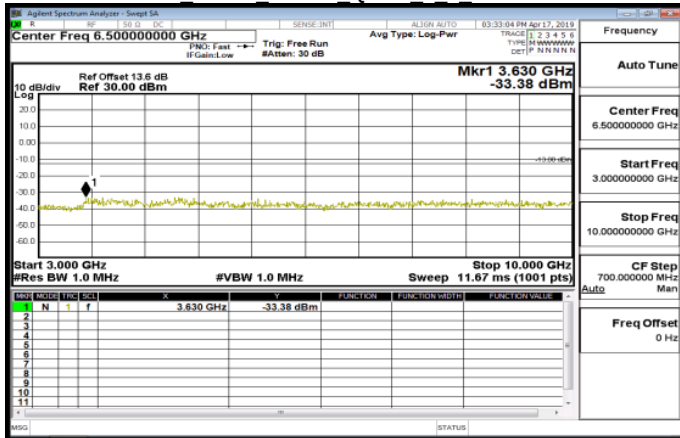
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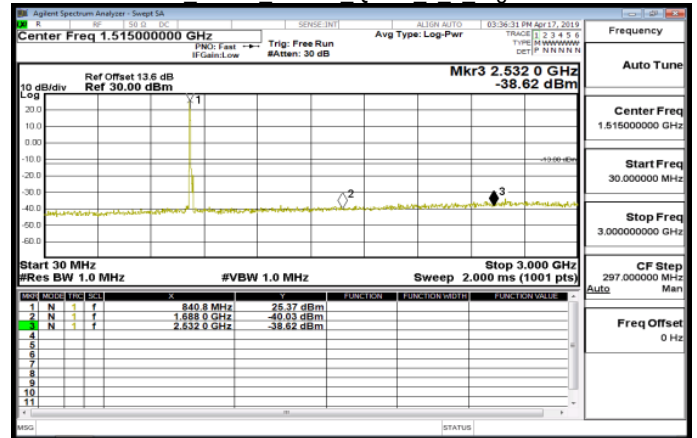
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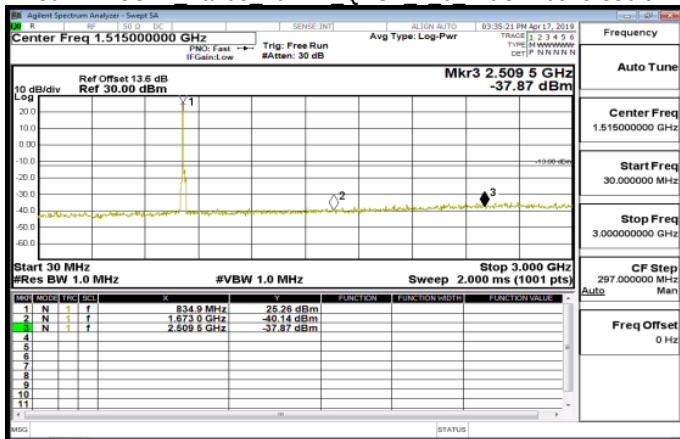
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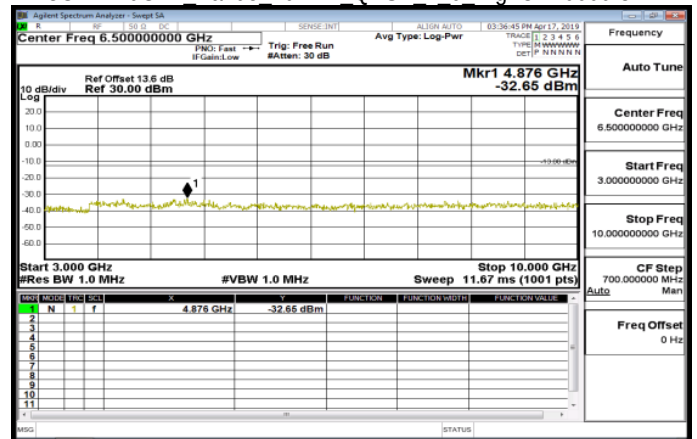
30MHz~3GHz Band5 10MHz QPSK 1 0 HighCH20600-844



30MHz~3GHz Band5 10MHz QPSK 1 0 MidCH20525-836.5



3GHz~10GHz Band5 10MHz QPSK 1 0 HighCH20600-844

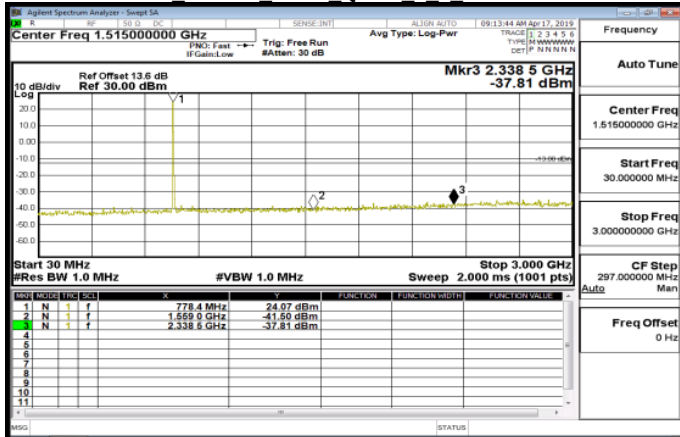


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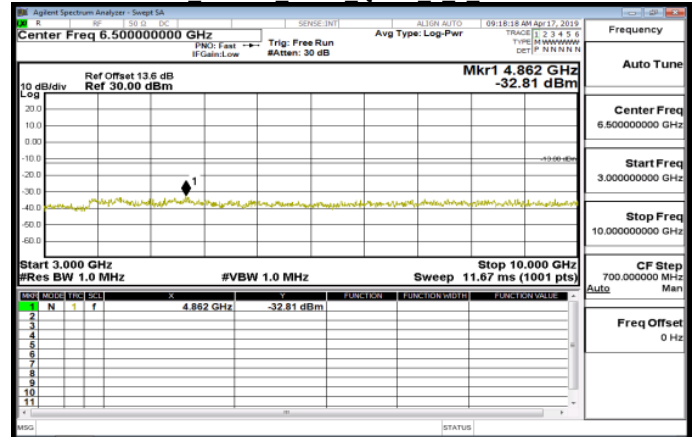
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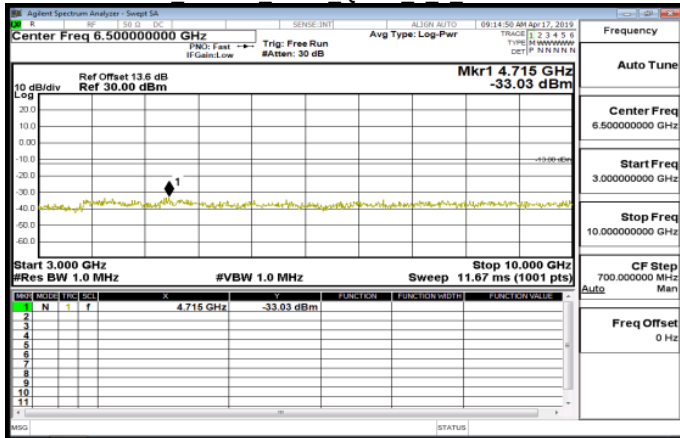
30MHz~3GHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



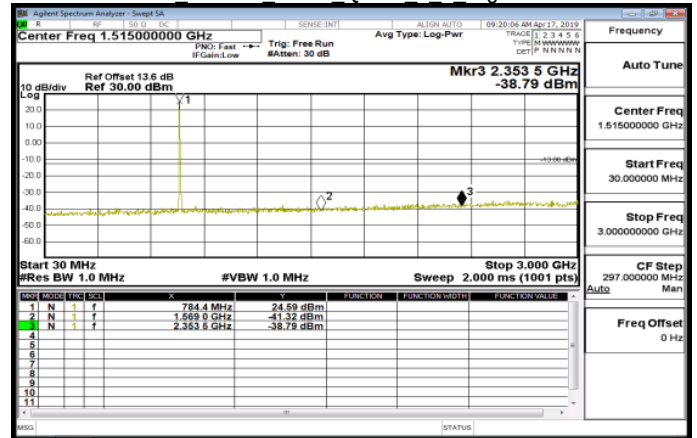
3GHz~10GHz Band13 5MHz QPSK 1 0 MidCH23230-782



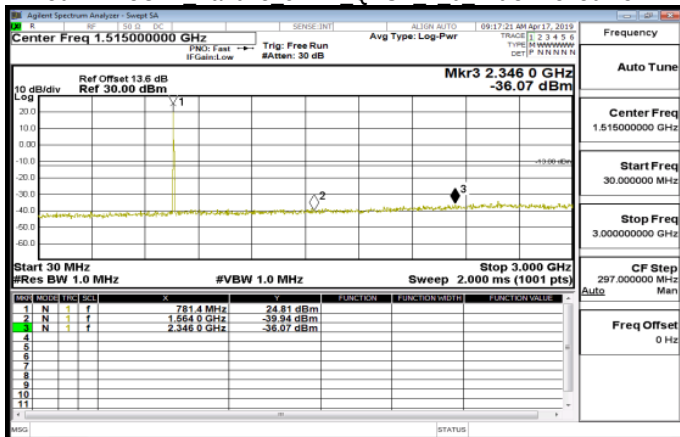
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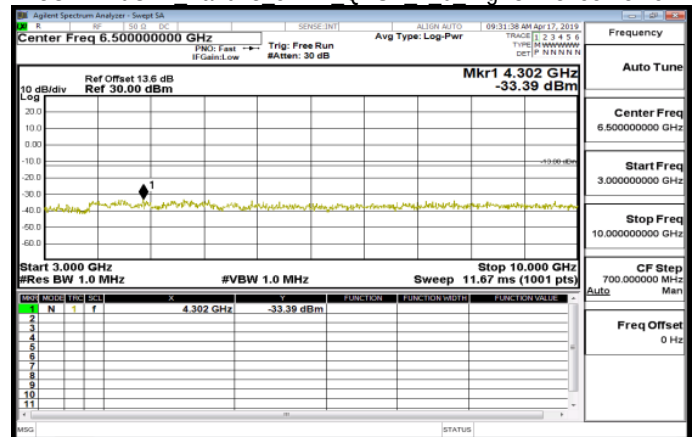
30MHz~3GHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



30MHz~3GHz Band13 5MHz QPSK 1 0 MidCH23230-782



3GHz~10GHz Band13 5MHz QPSK 1 0 HighCH23255-784.5

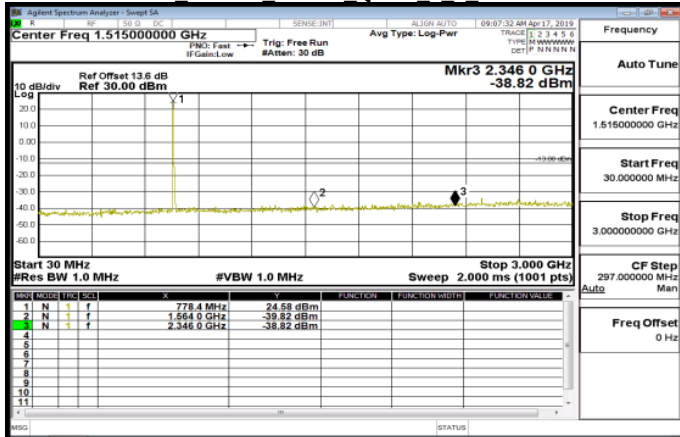


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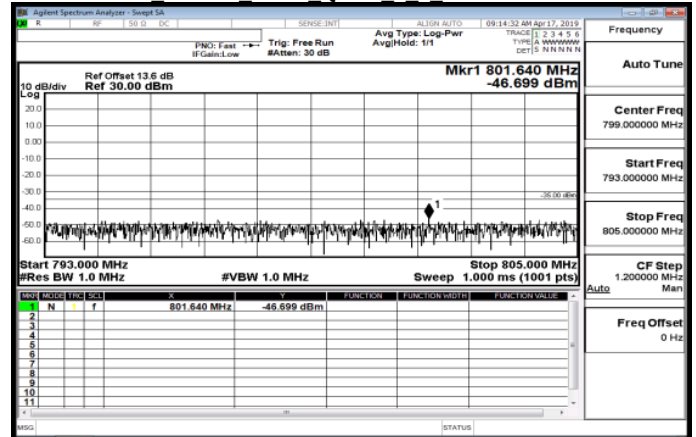
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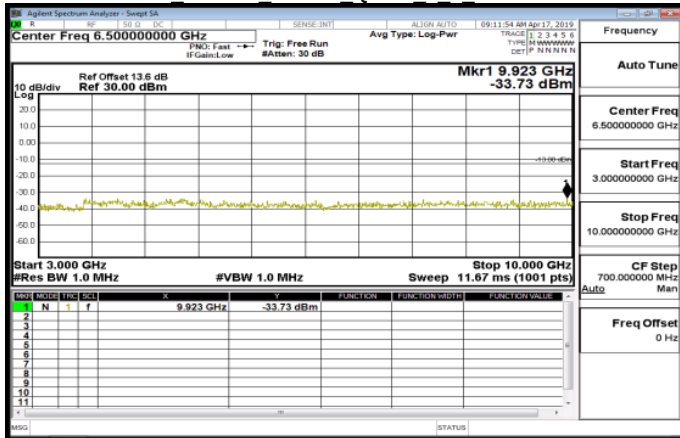
30MHz~3GHz Band13 10MHz QPSK 1 0 LowCH23230-782



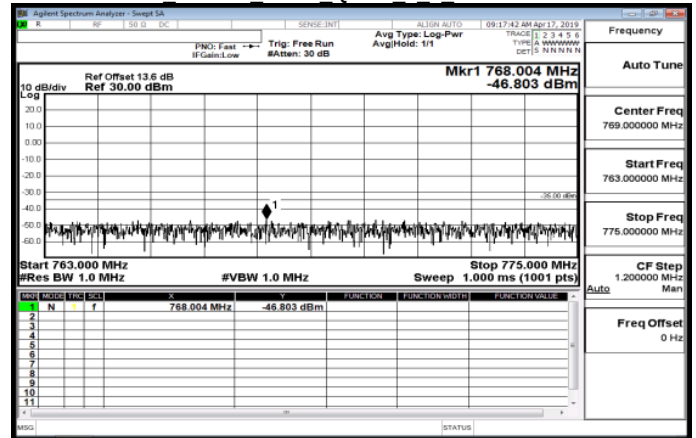
Inband-2 Band13 5MHz QPSK 1 0 LowCH23205-779.5



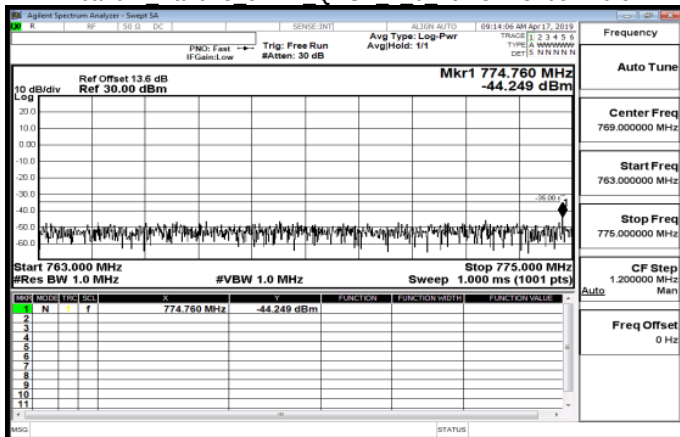
3GHz~10GHz Band13 10MHz QPSK 1 0 Low CH23230-782



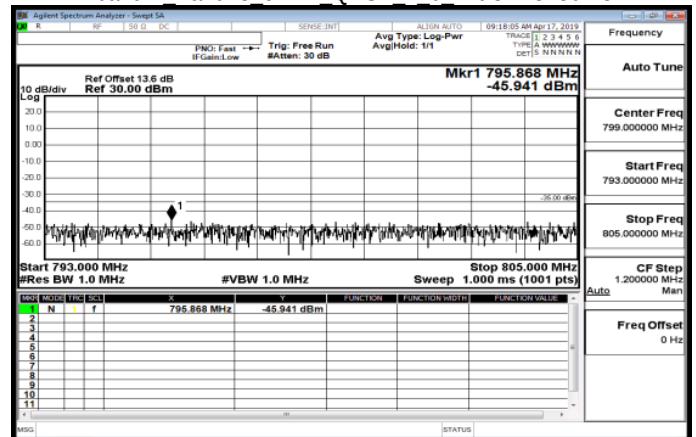
Inband-1 Band13 5MHz QPSK 1 0 MidCH23230-782



Inband-1 Band13 5MHz QPSK 1 0 LowCH23205-779.5



Inband-2 Band13 5MHz QPSK 1 0 MidCH23230-782

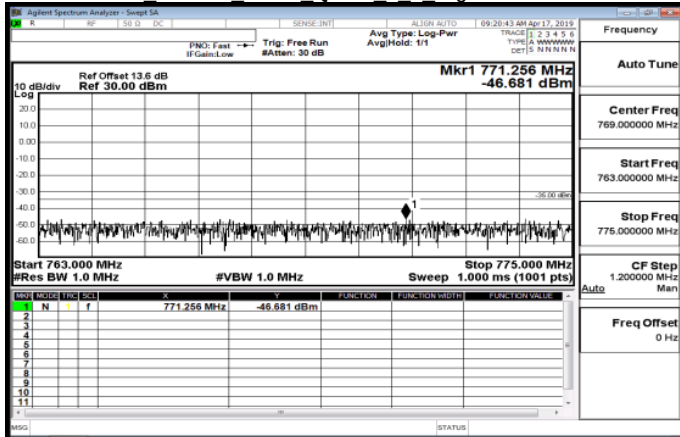


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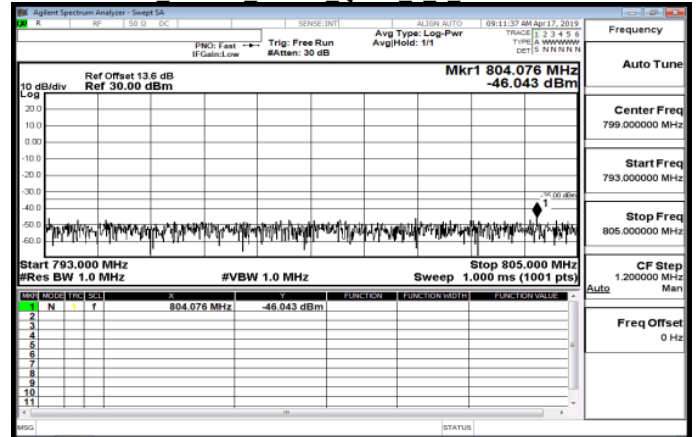
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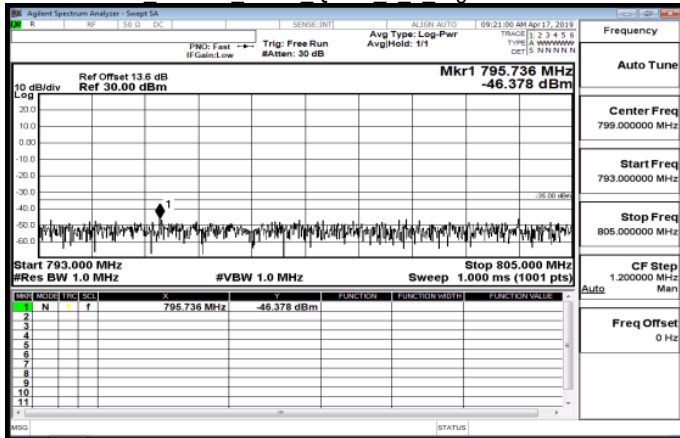
Inband-1 Band13 5MHz QPSK 1 0 HighCH23255-784.5



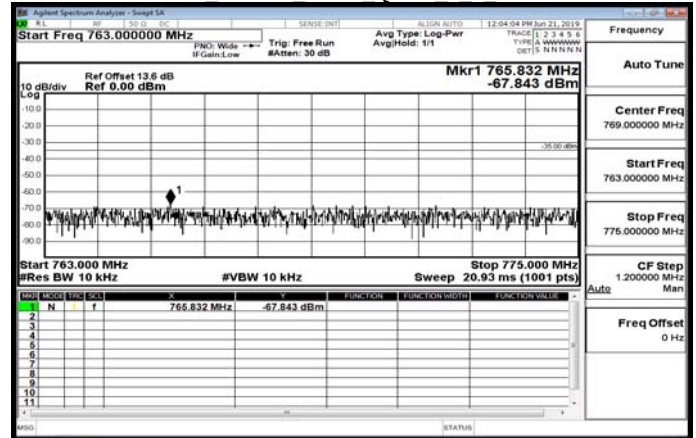
Inband-2 Band13 10MHz QPSK 1 0 MidCH23230-782



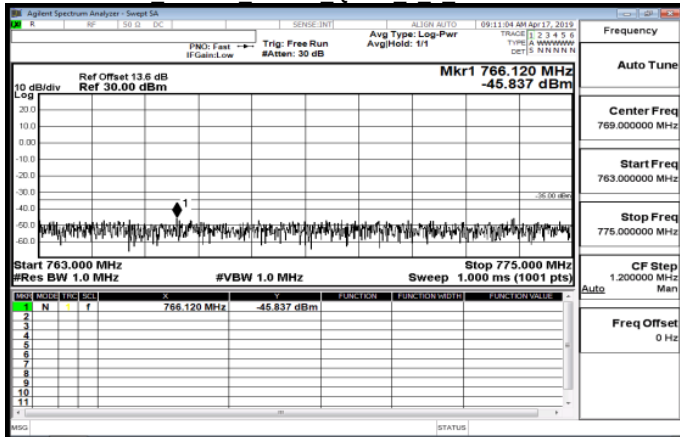
Inband-2 Band13 5MHz QPSK 1 0 HighCH23255-784.5



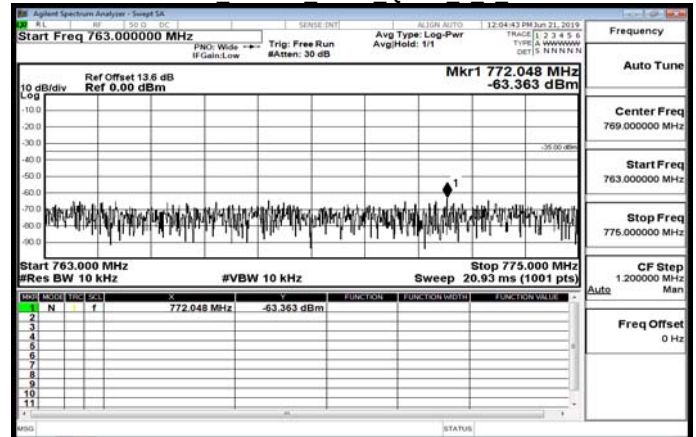
763.3MHz-775MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



Inband-1 Band13 10MHz QPSK 1 0 MidCH23230-782



763.3MHz-775MHz Band13 5MHz QPSK 1 0 MidCH23230-782

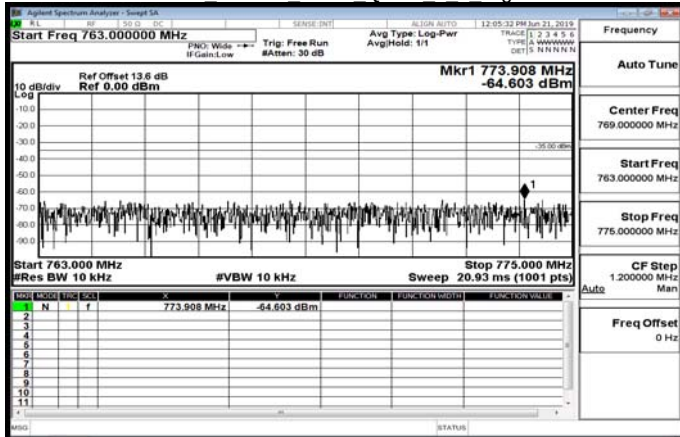


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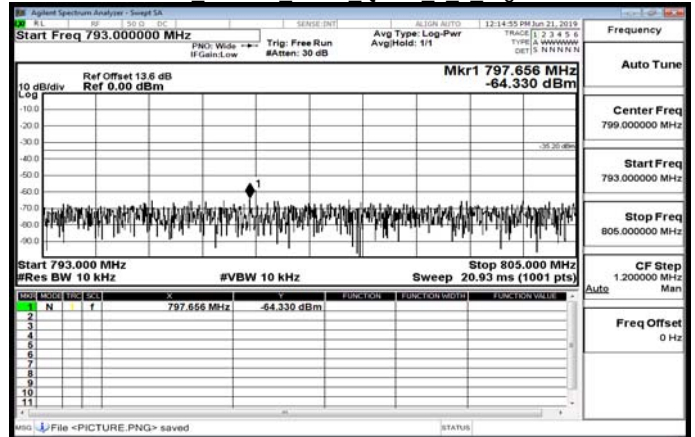
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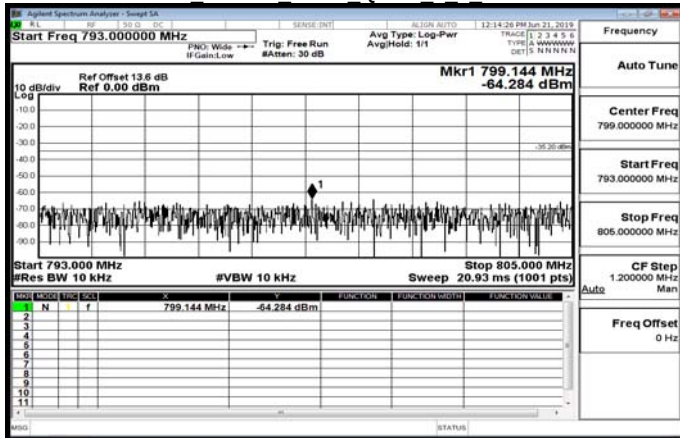
763.3MHz~775MHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



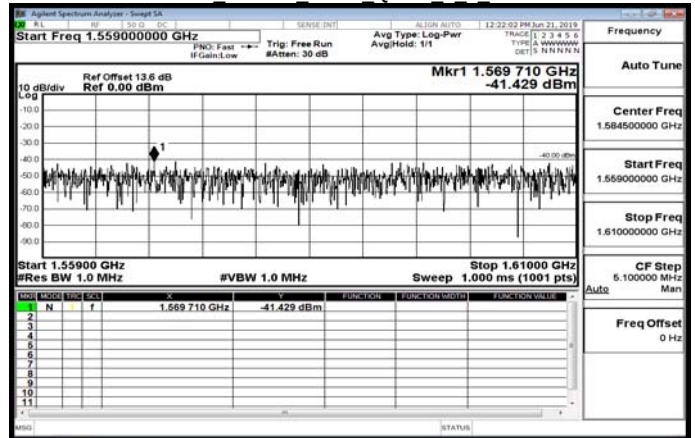
793MHz~806MHz Band13 5MHz QPSK 1 0 HighCH23255-784.5



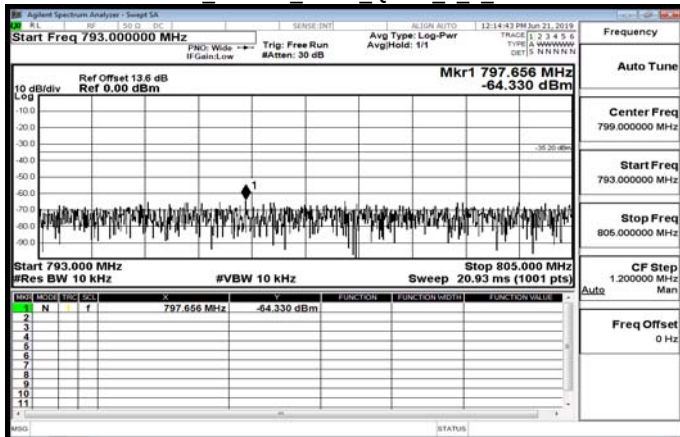
793MHz~806MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



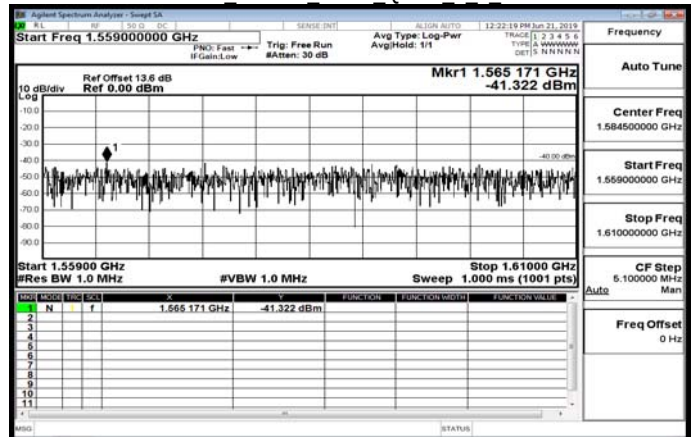
1559MHz~1610MHz Band13 5MHz QPSK 1 0 LowCH23205-779.5



793MHz~806MHz Band13 5MHz QPSK 1 0 MidCH23230-782



1559MHz~1610MHz Band13 5MHz QPSK 1 0 MidCH23230-782

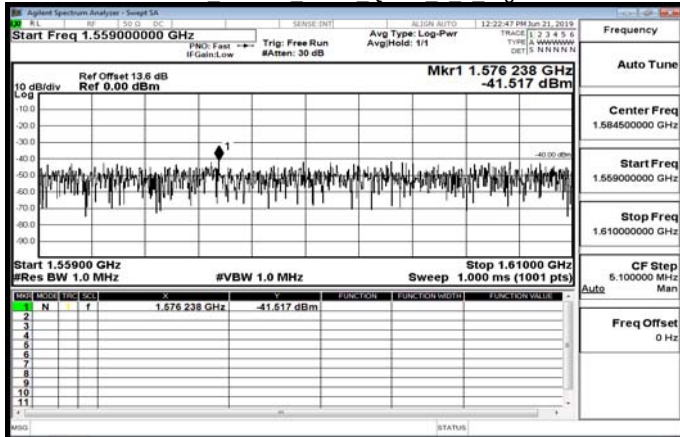


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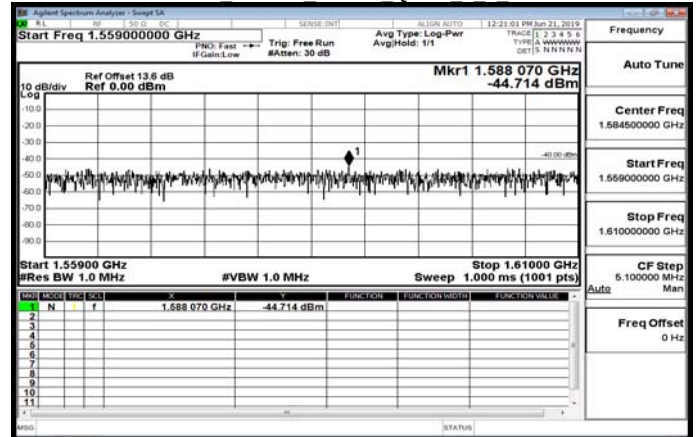
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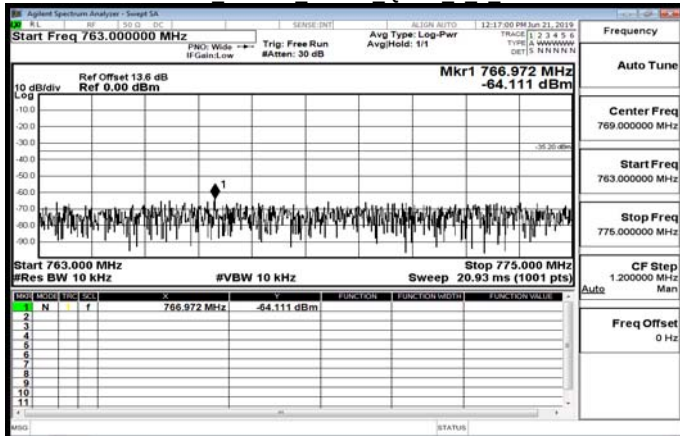
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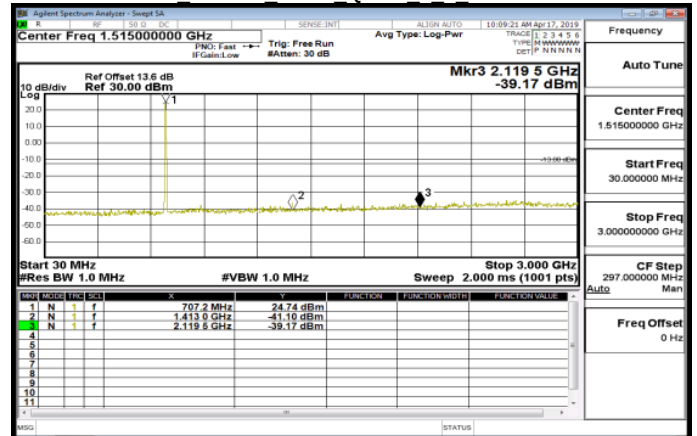
1559MHz~1610MHz Band13 10MHz QPSK 1 0 MidCH23230-782



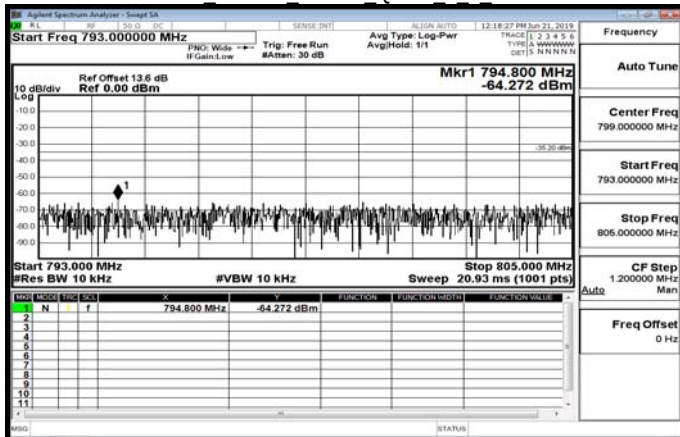
763.3MHz~775MHz Band13 10MHz QPSK 1 0 MidCH23230-782



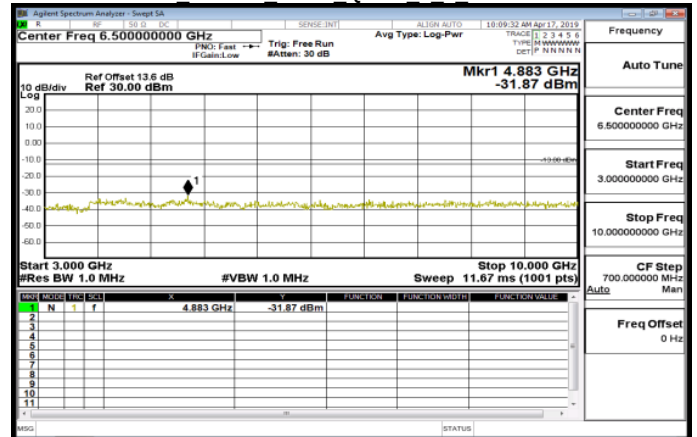
30MHz~3GHz Band17 5MHz QPSK 1 0 LowCH23755-706.5



793MHz~806MHz Band13 10MHz QPSK 1 0 MidCH23230-782



3GHz~10GHz Band17 5MHz QPSK 1 0 LowCH23755-706.5

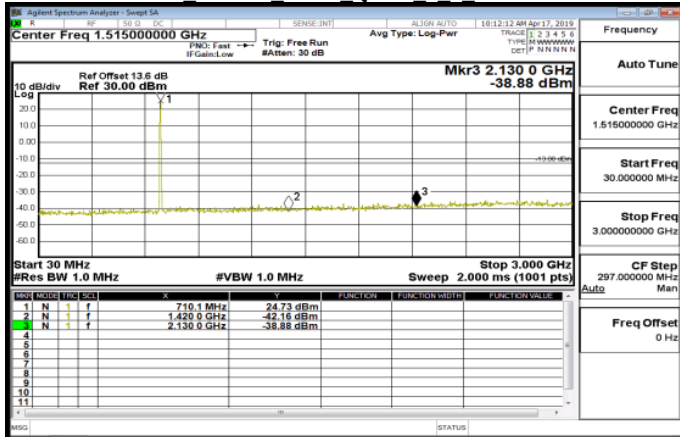


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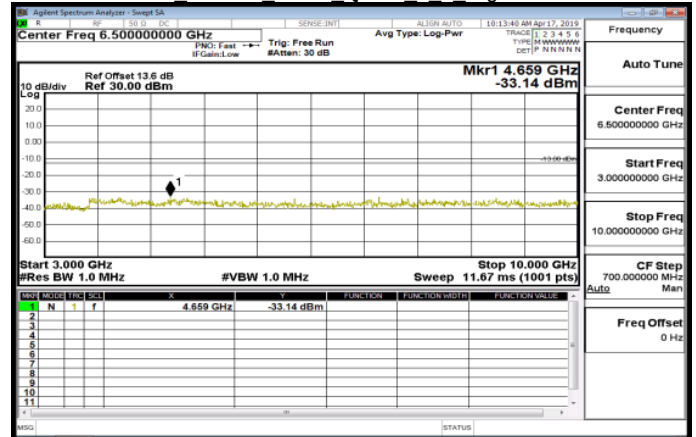
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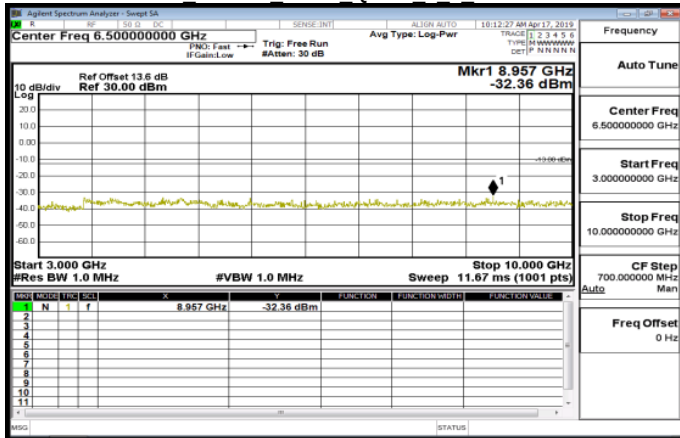
30MHz~3GHz Band17 5MHz QPSK 1 0 MidCH23790-710



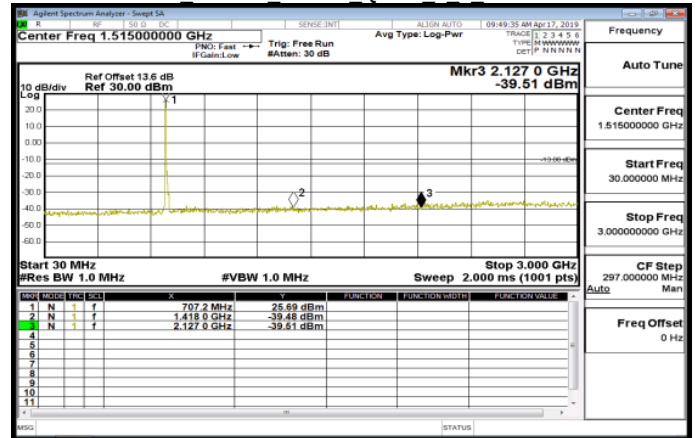
3GHz~10GHz Band17 5MHz QPSK 1 0 HighCH23825-713.5



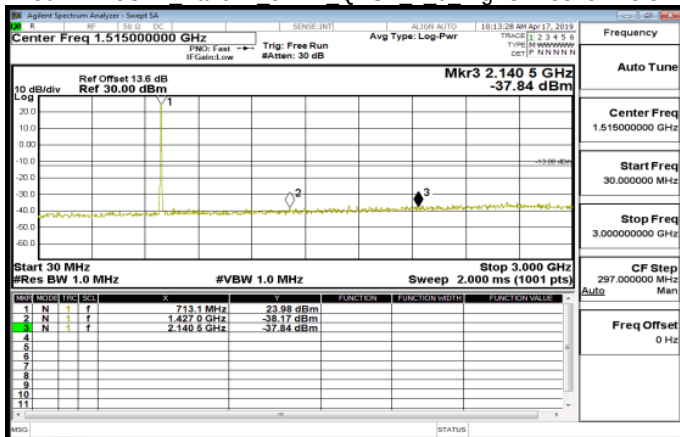
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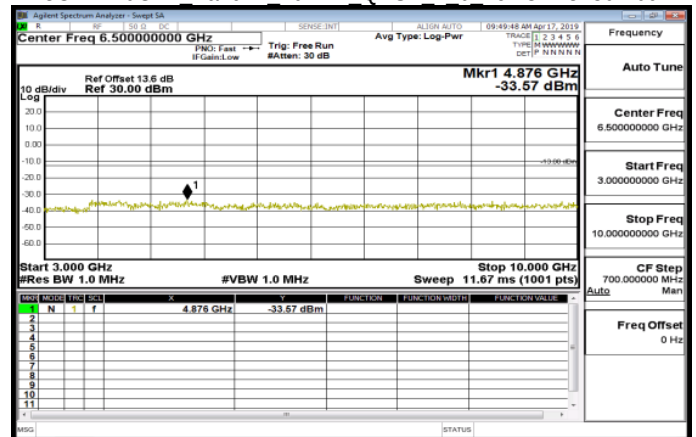
30MHz~3GHz Band17 10MHz QPSK 1 0 LowCH23780-709



30MHz~3GHz Band17 5MHz QPSK 1 0 HighCH23825-713.5



3GHz~10GHz Band17 10MHz QPSK 1 0 LowCH23780-709

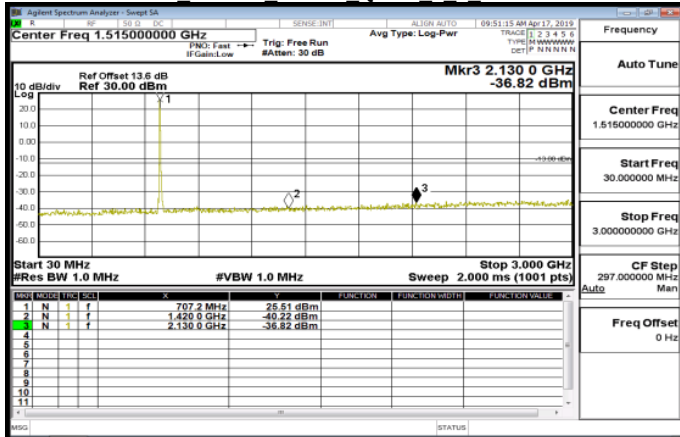


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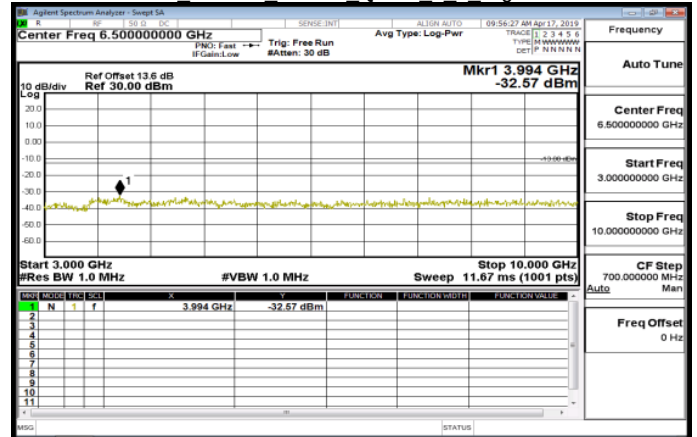
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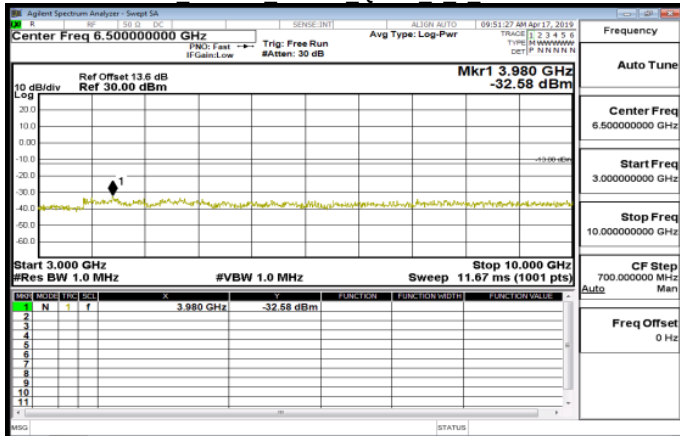
30MHz~3GHz Band17 10MHz QPSK 1 0 MidCH23790-710



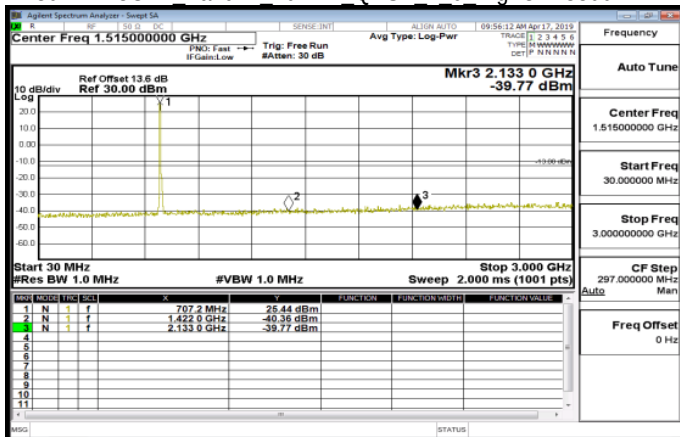
3GHz~10GHz Band17 10MHz QPSK 1 0 HighCH23800-711



3GHz~10GHz Band17 10MHz QPSK 1 0 MidCH23790-710



30MHz~3GHz Band17 10MHz QPSK 1 0 HighCH23800-711



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9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(a) , §24.238(a) , 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 licensee's frequency block (-13dBm).

FCC §27.53(g) (h)

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.

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

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)

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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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{\text{Note}}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{\text{Note}}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

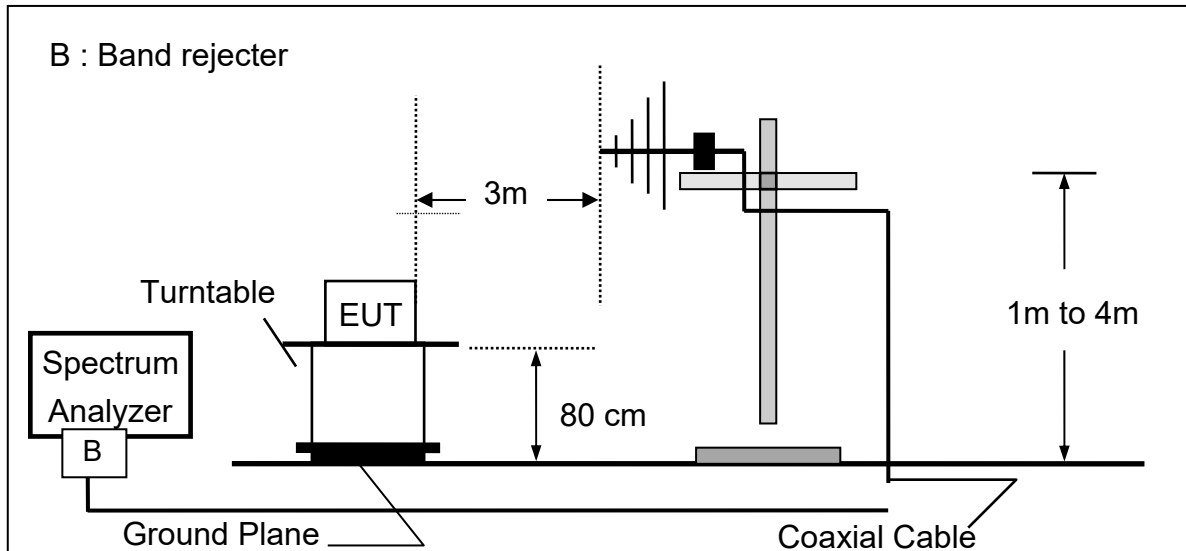
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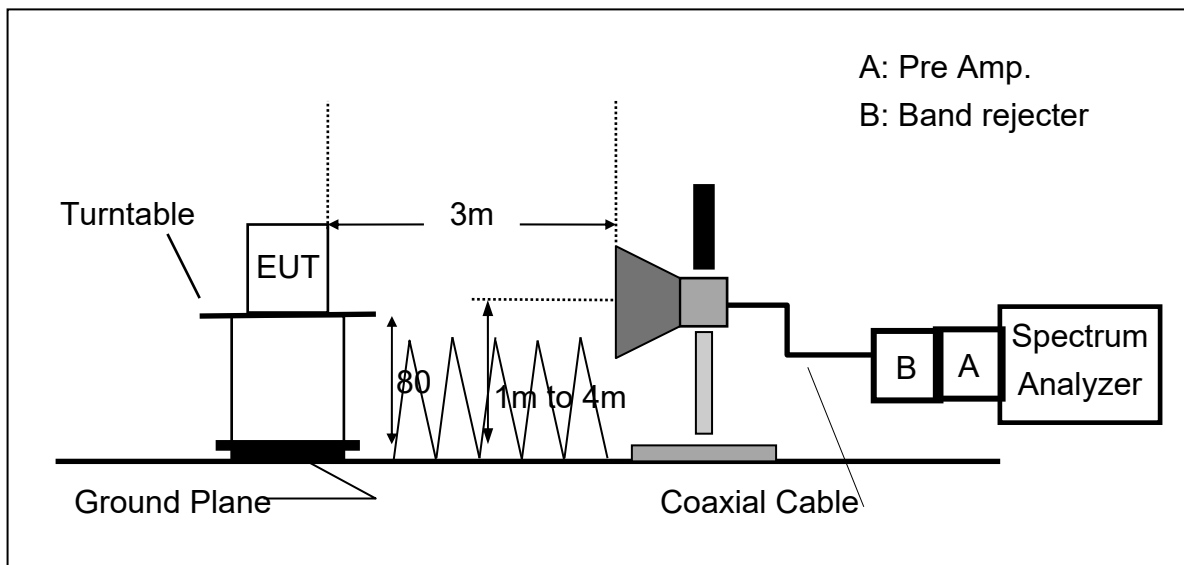
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9.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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9.3. 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.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4. Measurement Equipment Used:

966A Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020
PSA Series Spectrum Analyzer	Agilent	E4446A	MY46180323	05/31/2018	05/30/2019
Digital Thermo-Hygro Meter	WISEWIND	1206	D07	01/30/2019	01/29/2020
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	02/26/2019	02/25/2020
Pre-Amplifier	EMEC	EM330	60609	02/26/2019	02/25/2020
Pre-Amplifier	HP	8449B	3008A00965	02/26/2019	02/25/2020
Horn Antenna	Schwarzbeck	BBHA9170	184	12/27/2018	12/26/2019
Horn Antenna	ETS LINDGREN	3116	26370	12/26/2018	12/25/2019
Horn Antenna	SCHWARZBECK	BBHA 9120D	779	03/09/2019	03/08/2020
Bilog Antenna	Sunol Sciences	JB3	A030105	07/13/2018	07/12/2019
Bilog Antenna	Sunol Sciences	JB1	A052609	03/06/2019	03/05/2020
double Ridged Guide Horn Antenna	ETC	MCTD 1209	DRH13M02003	08/20/2018	08/19/2019
Loop Antenna	COM-POWER	AL-130	121051	03/22/2019	03/21/2020
Loop Antenna	ETS.LINDGREN	6502	148045	10/08/2018	10/07/2019
Digital Radio Communication Tester	R&S	CMU200	100535	09/17/2018	09/16/2019
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Wireless Communication Test Set	Agilent	8960/E5515C	MY48363204	07/23/2018	07/22/2019
Wideband Radio Communication Tester	R&S	CMW 500	116875	04/20/2018	04/19/2019
Cable	HUBER SUHNER	SUCOFLEX 104PEA	25157	02/26/2019	02/25/2020
Cable	HUBER SUHNER	SUCOFLEX 104PEA	20995	02/26/2019	02/25/2020
DC Power Supply	GWINSTEK	SPS-3610	GPE880163	01/14/2019	01/13/2020
High Pass Filter	Woken	EWT-57-0209	RF43	02/26/2019	02/25/2020
Notch Filter	EWT	EWT-54-0037	RF53	02/26/2019	02/25/2020
Notch Filter	EWT	EWT-54-0038	RF55	02/26/2019	02/25/2020
Software	EZ-EMC (CCS-3A1RE)				

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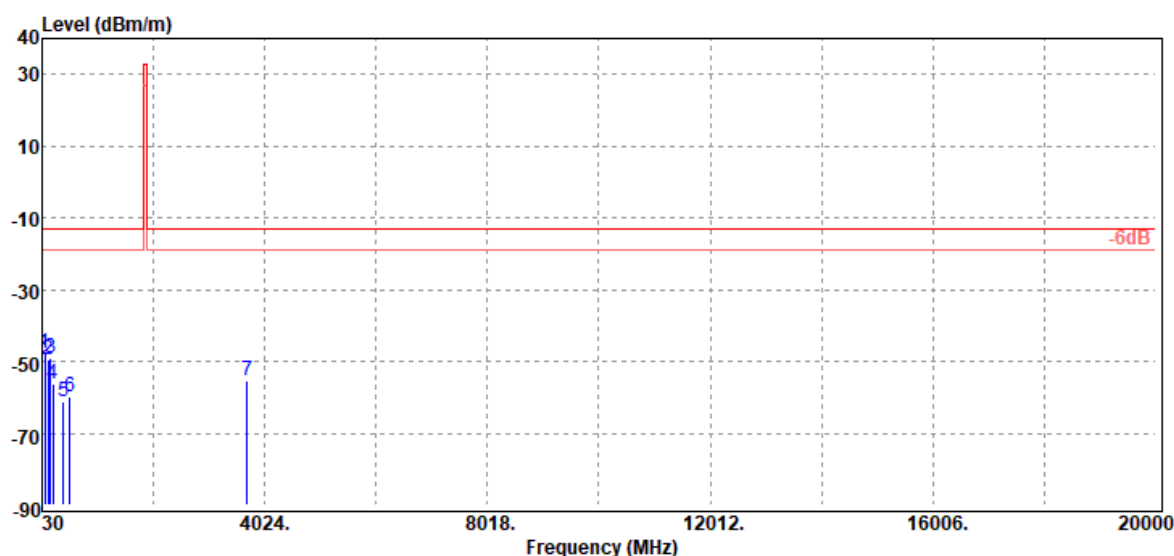
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9.5. Measurement Result:

Radiated Spurious Emission Measurement Result: WCDMA Band 2 Mode

Project Number	: T190327W11	Test Date	: 2019-05-21
Operation Band	: WCDMA B2	Temp./Humi.	: 21.2/61
Fundamental Frequency	: 1852.4 MHz	Engineer	: Jerry
Operation Mode	: Tx CH Low	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: E2 Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-47.63	-37.83	-9.10	-0.70	-13.00	-34.63
141.55	-49.40	-40.12	-8.30	-0.98	-13.00	-36.40
178.41	-48.91	-43.25	-4.56	-1.10	-13.00	-35.91
221.09	-56.14	-52.94	-1.98	-1.22	-13.00	-43.14
418.00	-61.34	-57.75	-1.90	-1.69	-13.00	-48.34
534.40	-59.90	-56.67	-1.30	-1.93	-13.00	-46.90
3704.80	-55.47	-62.24	12.49	-5.72	-13.00	-42.47

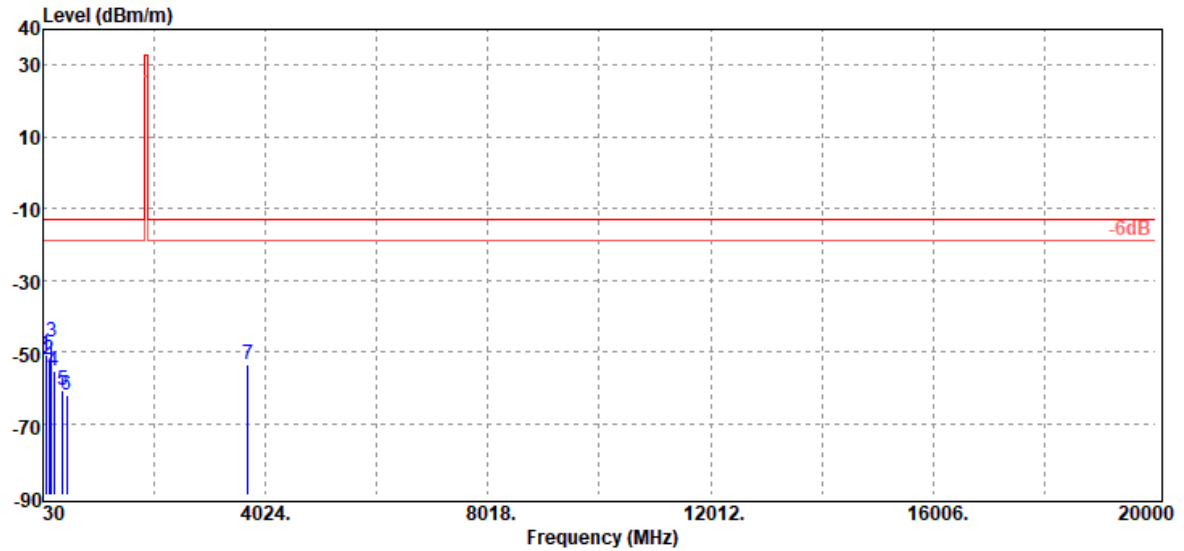
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Project Number : T190327W11
Operation Band : WCDMA B2
Fundamental Frequency : 1852.4 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.80	-41	-9.10	-0.70	-13.00	-37.80
141.55	-52.00	-42.72	-8.30	-0.98	-13.00	-39.00
180.35	-47.26	-41.8	-4.36	-1.10	-13.00	-34.26
219.15	-55.17	-51.93	-2.02	-1.22	-13.00	-42.17
386.96	-60.81	-57.78	-1.40	-1.63	-13.00	-47.81
456.80	-62.00	-58.13	-2.10	-1.77	-13.00	-49.00
3704.80	-53.75	-60.52	12.49	-5.72	-13.00	-40.75

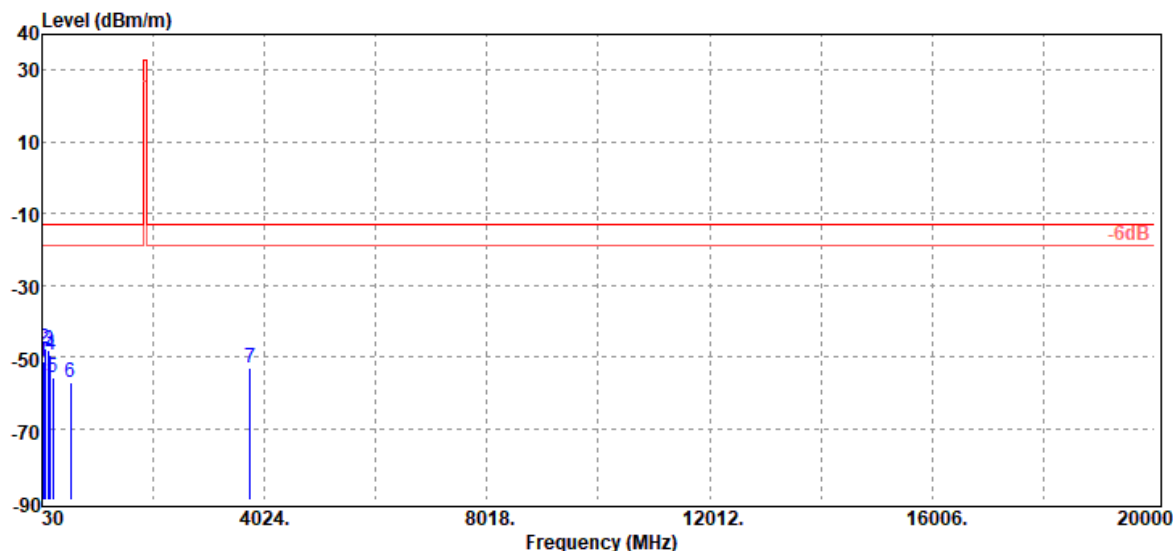
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Project Number : T190327W11
Operation Band : WCDMA B2
Fundamental Frequency : 1880 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-51.12	-36.21	-14.36	-0.55	-13.00	-38.12
73.65	-47.68	-37.88	-9.10	-0.70	-13.00	-34.68
148.34	-48.16	-39.89	-7.27	-1.00	-13.00	-35.16
178.41	-49.43	-43.77	-4.56	-1.10	-13.00	-36.43
221.09	-55.94	-52.74	-1.98	-1.22	-13.00	-42.94
539.25	-57.38	-54.15	-1.30	-1.93	-13.00	-44.38
3760.00	-52.97	-59.63	12.42	-5.76	-13.00	-39.97

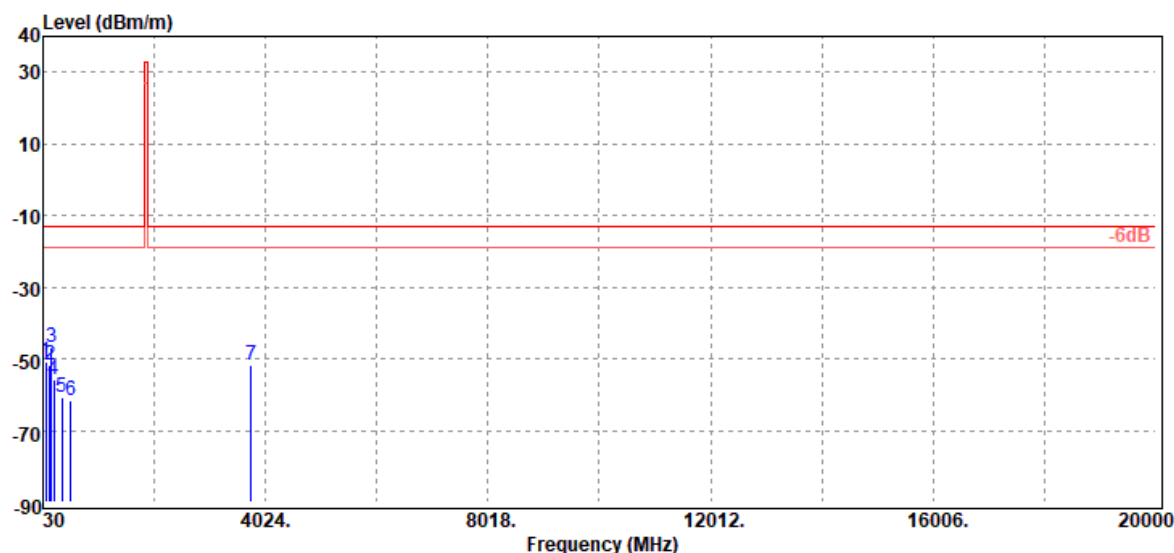
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Project Number : T190327W11
Operation Band : WCDMA B2
Fundamental Frequency : 1880 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.73	-40.93	-9.10	-0.70	-13.00	-37.73
149.31	-51.72	-43.55	-7.17	-1.00	-13.00	-38.72
178.41	-46.94	-41.28	-4.56	-1.10	-13.00	-33.94
219.15	-55.72	-52.48	-2.02	-1.22	-13.00	-42.72
376.29	-60.85	-57.59	-1.65	-1.61	-13.00	-47.85
527.61	-61.87	-58.65	-1.30	-1.92	-13.00	-48.87
3760.00	-51.73	-58.39	12.42	-5.76	-13.00	-38.73

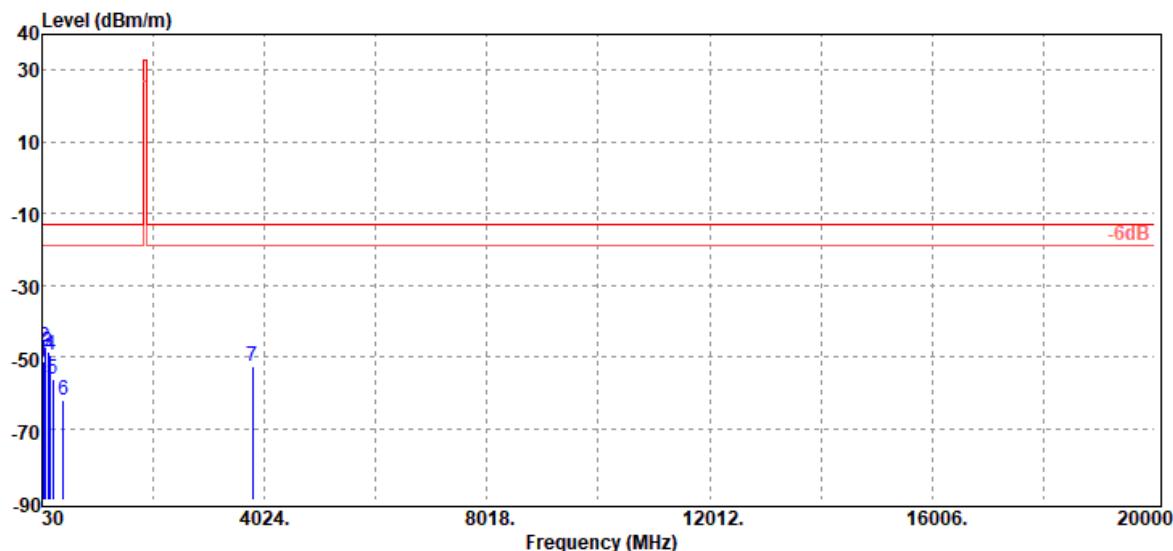
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Project Number : T190327W11
Operation Band : WCDMA B2
Fundamental Frequency : 1907.6 MHz
Operation Mode : Tx CH High
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-51.13	-37.04	-13.53	-0.56	-13.00	-38.13
73.65	-47.18	-37.38	-9.10	-0.70	-13.00	-34.18
144.46	-48.75	-39.95	-7.81	-0.99	-13.00	-35.75
178.41	-49.36	-43.7	-4.56	-1.10	-13.00	-36.36
221.09	-56.36	-53.16	-1.98	-1.22	-13.00	-43.36
415.09	-62.15	-58.56	-1.90	-1.69	-13.00	-49.15
3815.20	-52.53	-59.2	12.47	-5.80	-13.00	-39.53

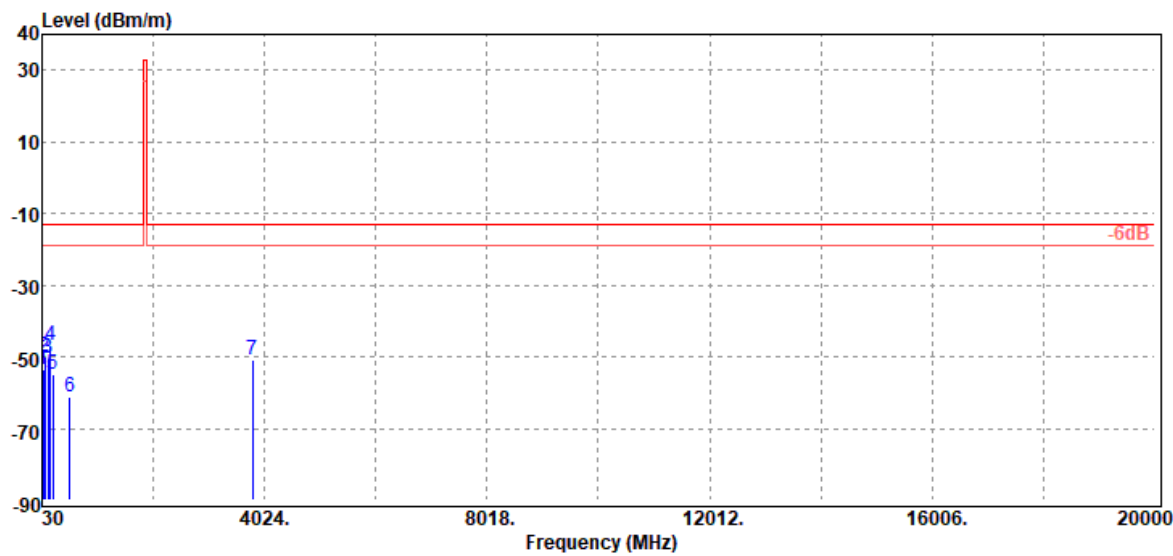
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Project Number : T190327W11
Operation Band : WCDMA B2
Fundamental Frequency : 1907.6 MHz
Operation Mode : Tx CH High
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-53.44	-39.35	-13.53	-0.56	-13.00	-40.44
73.65	-50.10	-40.3	-9.10	-0.70	-13.00	-37.10
143.49	-50.52	-41.54	-8.00	-0.98	-13.00	-37.52
185.20	-46.99	-41.79	-4.08	-1.12	-13.00	-33.99
221.09	-54.86	-51.66	-1.98	-1.22	-13.00	-41.86
532.46	-61.12	-57.9	-1.30	-1.92	-13.00	-48.12
3815.20	-50.86	-57.53	12.47	-5.80	-13.00	-37.86

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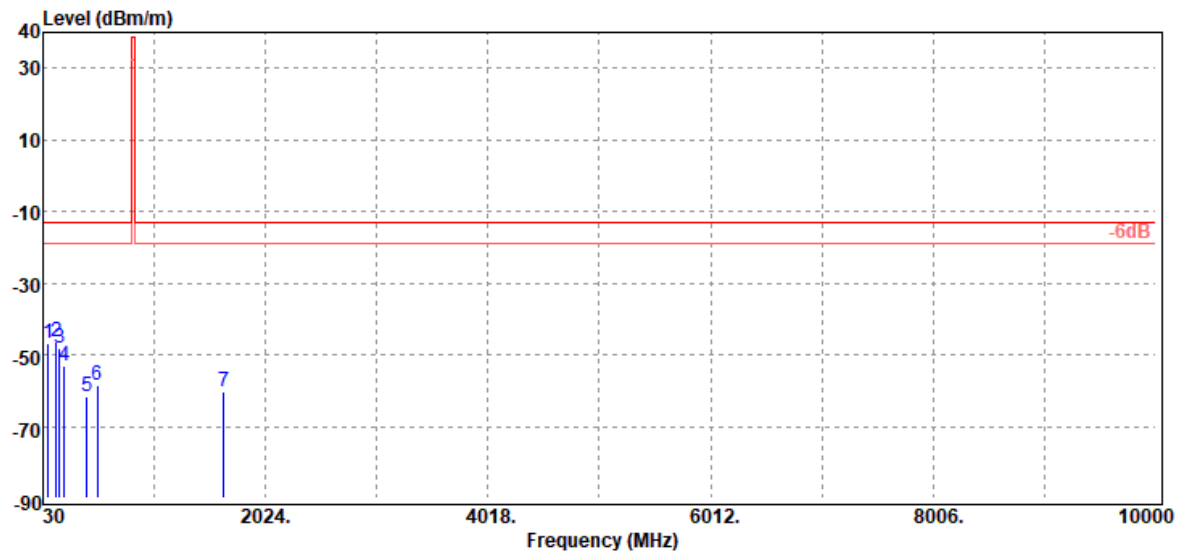
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Radiated Spurious Emission Measurement Result: WCDMA Band 5 Mode

Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 826.4 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-46.76	-36.96	-9.10	-0.70	-13.00	-33.76
146.40	-46.42	-37.89	-7.54	-0.99	-13.00	-33.42
178.41	-48.12	-42.46	-4.56	-1.10	-13.00	-35.12
219.15	-52.90	-49.66	-2.02	-1.22	-13.00	-39.90
419.94	-61.64	-58.04	-1.90	-1.70	-13.00	-48.64
516.94	-58.49	-55.13	-1.46	-1.90	-13.00	-45.49
1652.80	-60.53	-66.7	9.72	-3.55	-13.00	-47.53

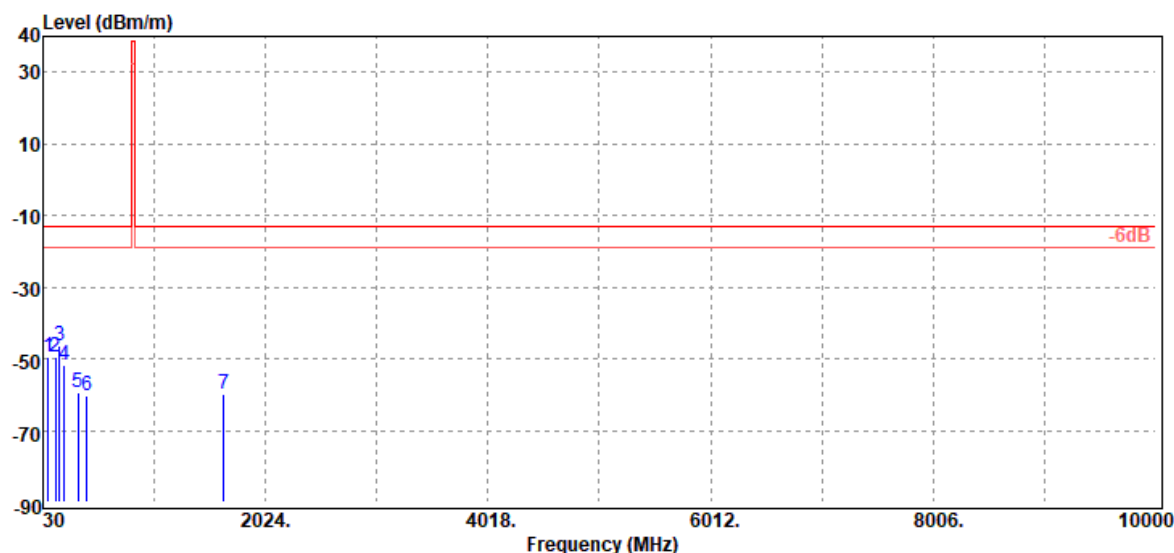
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Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 826.4 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-49.30	-39.5	-9.10	-0.70	-13.00	-36.30
141.55	-49.55	-40.27	-8.30	-0.98	-13.00	-36.55
178.41	-46.18	-40.52	-4.56	-1.10	-13.00	-33.18
219.15	-51.95	-48.71	-2.02	-1.22	-13.00	-38.95
347.19	-59.39	-56.35	-1.50	-1.54	-13.00	-46.39
422.85	-60.40	-56.8	-1.90	-1.70	-13.00	-47.40
1652.80	-59.72	-65.89	9.72	-3.55	-13.00	-46.72

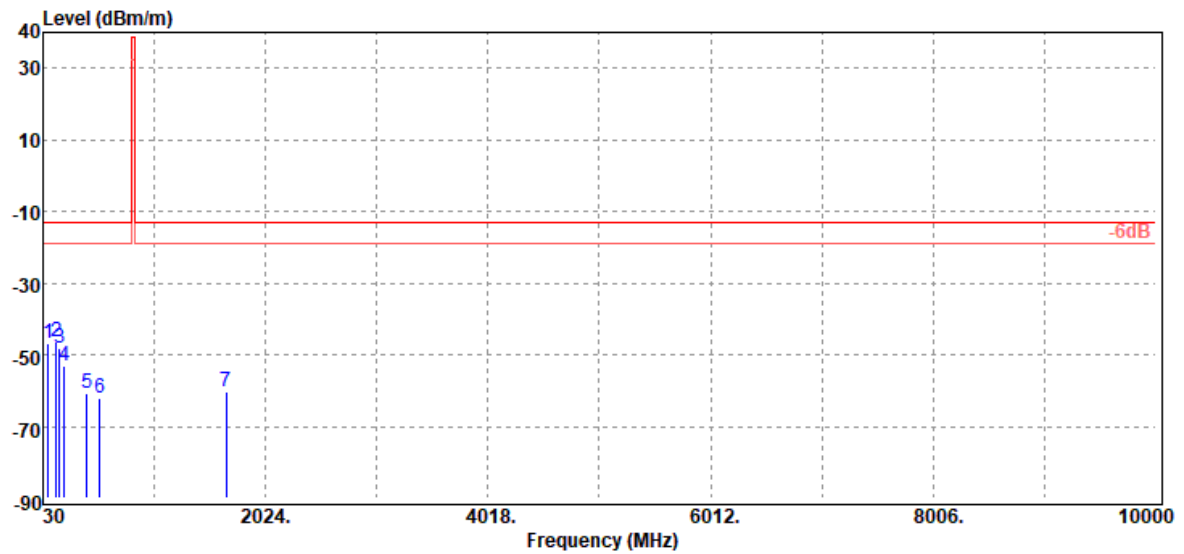
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Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 836.6 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-46.69	-36.89	-9.10	-0.70	-13.00	-33.69
146.40	-46.55	-38.02	-7.54	-0.99	-13.00	-33.55
178.41	-48.01	-42.35	-4.56	-1.10	-13.00	-35.01
219.15	-53.04	-49.8	-2.02	-1.22	-13.00	-40.04
419.94	-60.83	-57.23	-1.90	-1.70	-13.00	-47.83
539.25	-62.00	-58.77	-1.30	-1.93	-13.00	-49.00
1673.20	-60.45	-66.71	9.84	-3.58	-13.00	-47.45

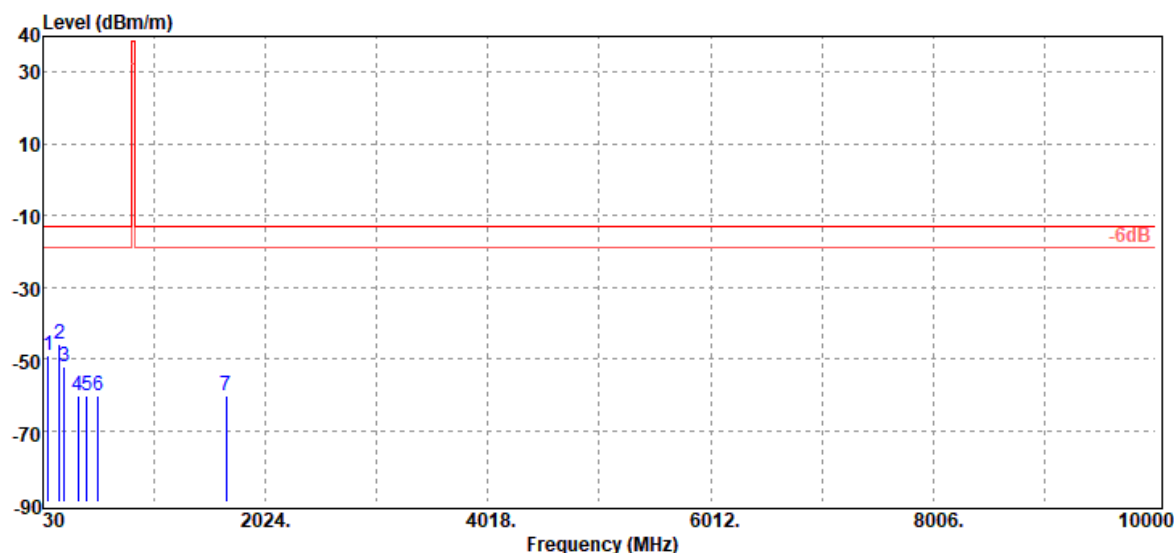
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Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 836.6 MHz
Operation Mode : Tx CH Mid
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-49.08	-39.28	-9.10	-0.70	-13.00	-36.08
178.41	-45.89	-40.23	-4.56	-1.10	-13.00	-32.89
219.15	-52.02	-48.78	-2.02	-1.22	-13.00	-39.02
347.19	-60.33	-57.29	-1.50	-1.54	-13.00	-47.33
419.94	-60.33	-56.73	-1.90	-1.70	-13.00	-47.33
527.61	-60.49	-57.27	-1.30	-1.92	-13.00	-47.49
1673.20	-60.23	-66.49	9.84	-3.58	-13.00	-47.23

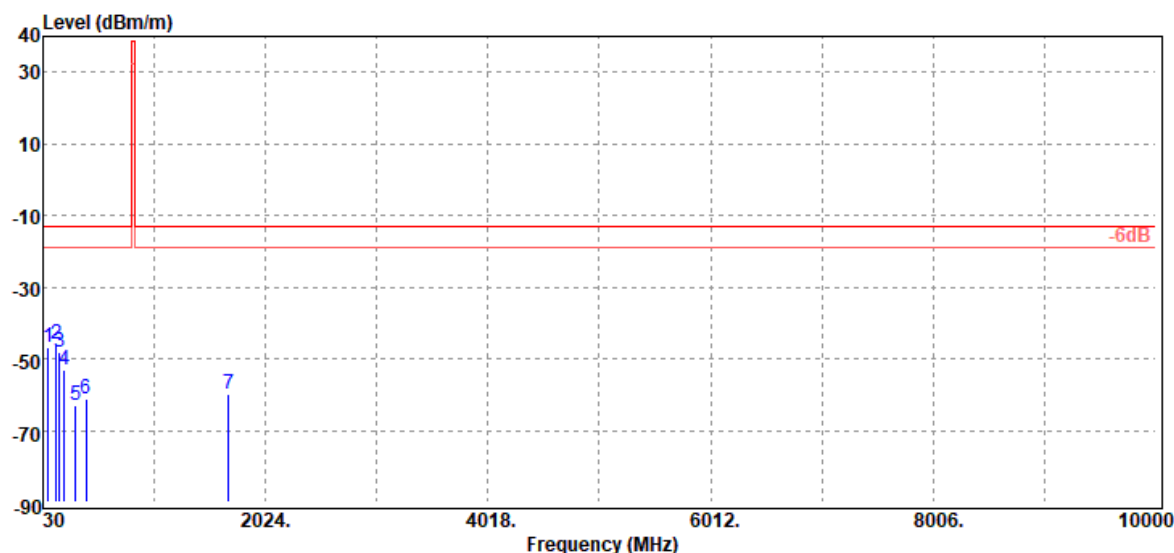
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Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 846.6 MHz
Operation Mode : Tx CH High
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-46.78	-36.98	-9.10	-0.70	-13.00	-33.78
148.34	-46.06	-37.79	-7.27	-1.00	-13.00	-33.06
178.41	-48.30	-42.64	-4.56	-1.10	-13.00	-35.30
219.15	-52.91	-49.67	-2.02	-1.22	-13.00	-39.91
322.94	-63.14	-59.85	-1.80	-1.49	-13.00	-50.14
418.00	-61.24	-57.65	-1.90	-1.69	-13.00	-48.24
1693.20	-59.96	-66.32	9.96	-3.60	-13.00	-46.96

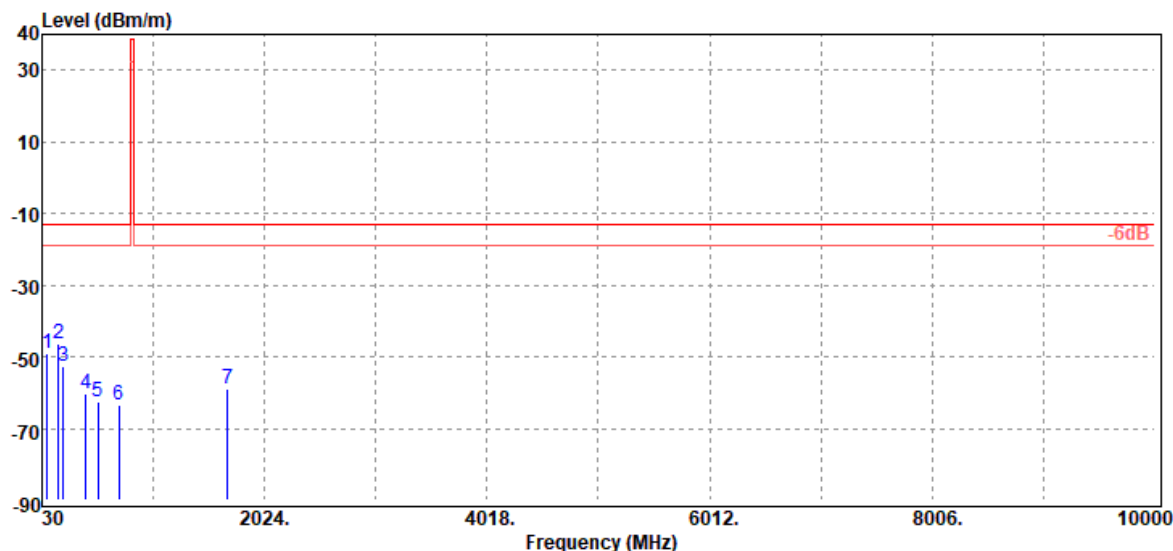
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Project Number : T190327W11
Operation Band : WCDMA B5
Fundamental Frequency : 846.6 MHz
Operation Mode : Tx CH High
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-48.88	-39.08	-9.10	-0.70	-13.00	-35.88
178.41	-46.28	-40.62	-4.56	-1.10	-13.00	-33.28
219.15	-52.63	-49.39	-2.02	-1.22	-13.00	-39.63
419.94	-60.41	-56.81	-1.90	-1.70	-13.00	-47.41
532.46	-62.68	-59.46	-1.30	-1.92	-13.00	-49.68
720.64	-63.35	-59.69	-1.40	-2.26	-13.00	-50.35
1693.20	-58.91	-65.27	9.96	-3.60	-13.00	-45.91

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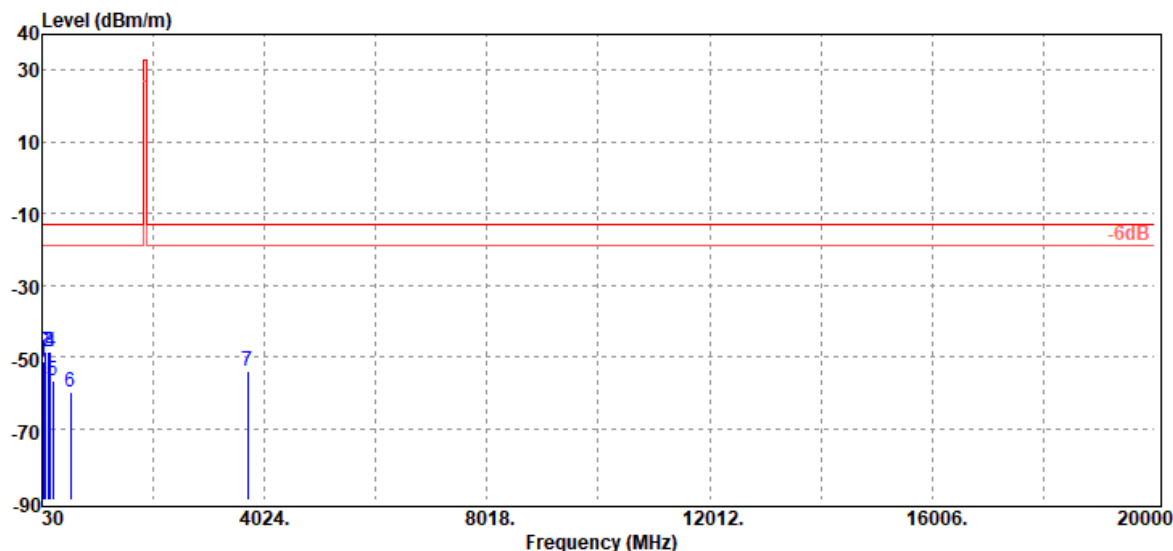
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Radiated Spurious Emission Measurement Result: LTE-Band 2 (The Worst Case)

Project Number : T190327W11
Operation Band : LTE B2 20 QPSK 1.0
Fundamental Frequency : 1860 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-20
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-51.11	-37.02	-13.53	-0.56	-13.00	-38.11
83.35	-48.47	-39.49	-8.23	-0.75	-13.00	-35.47
148.34	-48.61	-40.34	-7.27	-1.00	-13.00	-35.61
180.35	-48.68	-43.22	-4.36	-1.10	-13.00	-35.68
219.15	-56.88	-53.64	-2.02	-1.22	-13.00	-43.88
539.25	-59.82	-56.59	-1.30	-1.93	-13.00	-46.82
3720.00	-53.87	-60.6	12.46	-5.73	-13.00	-40.87

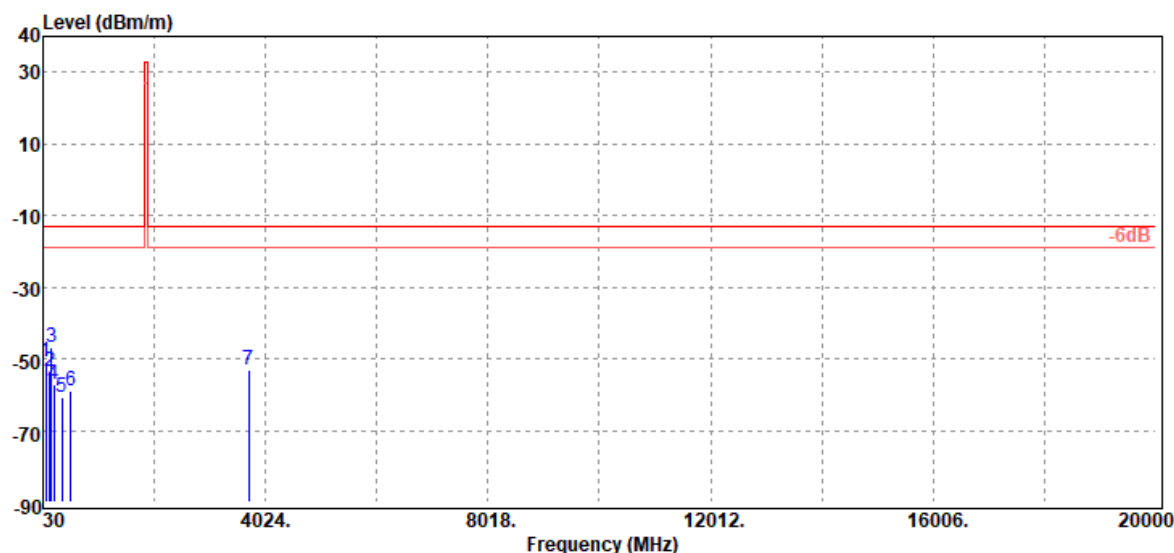
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Project Number : T190327W11
Operation Band :LTE B2 20 QPSK 1.0
Fundamental Frequency :1860 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.77	-40.97	-9.10	-0.70	-13.00	-37.77
149.31	-53.63	-45.46	-7.17	-1.00	-13.00	-40.63
178.41	-47.02	-41.36	-4.56	-1.10	-13.00	-34.02
221.09	-57.15	-53.95	-1.98	-1.22	-13.00	-44.15
374.35	-60.76	-57.45	-1.71	-1.60	-13.00	-47.76
532.46	-59.05	-55.83	-1.30	-1.92	-13.00	-46.05
3720.00	-52.97	-59.7	12.46	-5.73	-13.00	-39.97

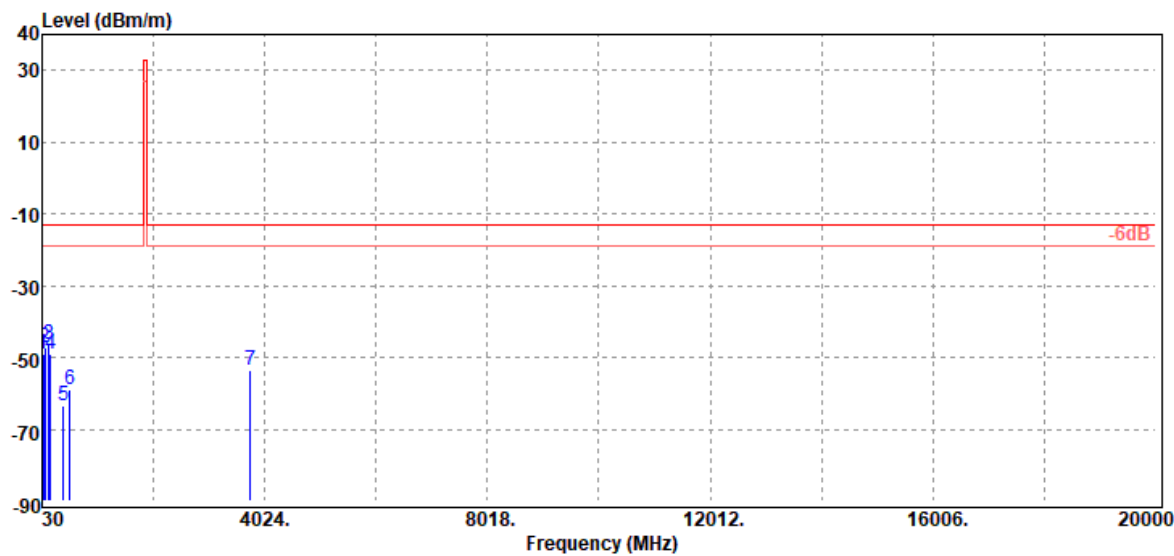
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Project Number : T190327W11
Operation Band :LTE B2 20 QPSK 1.0
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.24	-35.15	-13.53	-0.56	-13.00	-36.24
73.65	-47.30	-37.5	-9.10	-0.70	-13.00	-34.30
146.40	-46.47	-37.94	-7.54	-0.99	-13.00	-33.47
178.41	-49.18	-43.52	-4.56	-1.10	-13.00	-36.18
415.09	-63.39	-59.8	-1.90	-1.69	-13.00	-50.39
534.40	-59.11	-55.88	-1.30	-1.93	-13.00	-46.11
3760.00	-53.46	-60.12	12.42	-5.76	-13.00	-40.46

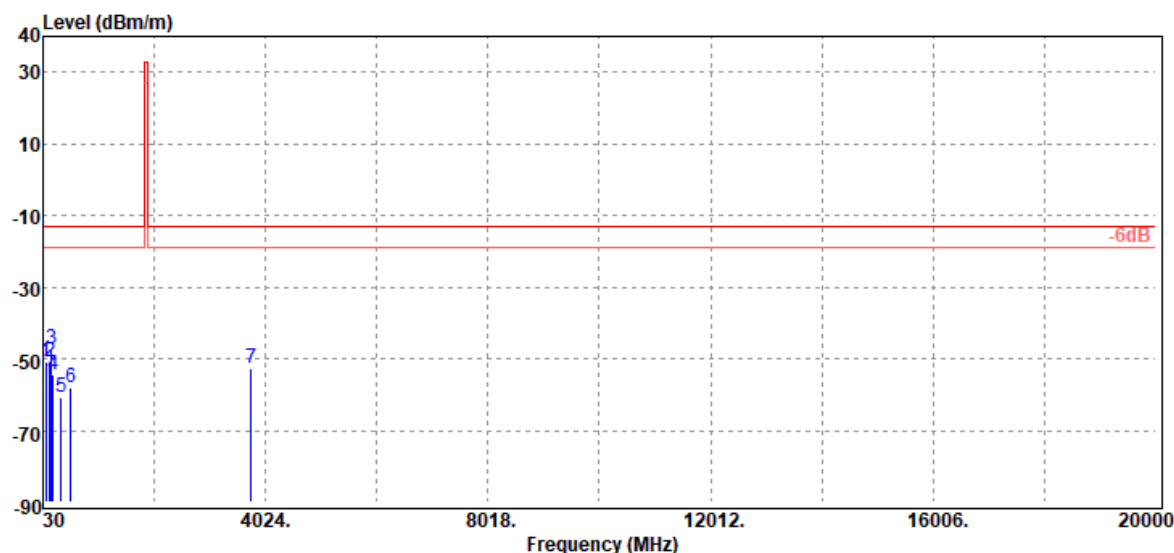
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Project Number : T190327W11
Operation Band :LTE B2 20 QPSK 1.0
Fundamental Frequency :1880 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.69	-40.89	-9.10	-0.70	-13.00	-37.69
149.31	-50.76	-42.59	-7.17	-1.00	-13.00	-37.76
180.35	-47.29	-41.83	-4.36	-1.10	-13.00	-34.29
217.21	-54.51	-51.24	-2.06	-1.21	-13.00	-41.51
354.95	-60.69	-57.73	-1.40	-1.56	-13.00	-47.69
532.46	-57.94	-54.72	-1.30	-1.92	-13.00	-44.94
3760.00	-52.80	-59.46	12.42	-5.76	-13.00	-39.80

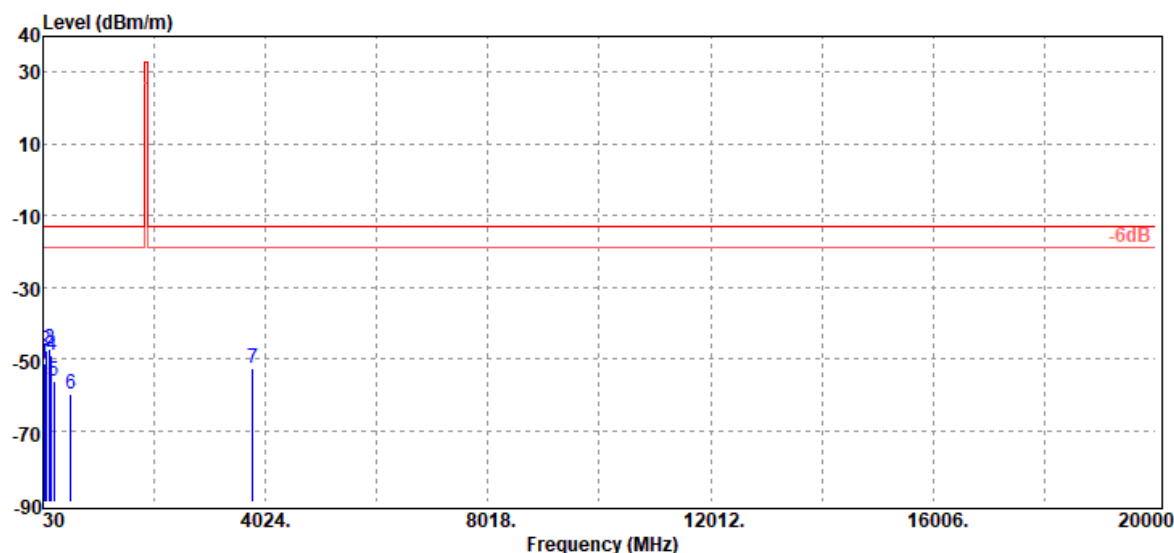
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Project Number : T190327W11
Operation Band :LTE B2 20 QPSK 1.0
Fundamental Frequency :1900 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-51.25	-36.34	-14.36	-0.55	-13.00	-38.25
73.65	-47.72	-37.92	-9.10	-0.70	-13.00	-34.72
148.34	-47.15	-38.88	-7.27	-1.00	-13.00	-34.15
178.41	-48.98	-43.32	-4.56	-1.10	-13.00	-35.98
221.09	-56.20	-53	-1.98	-1.22	-13.00	-43.20
526.64	-60.05	-56.83	-1.30	-1.92	-13.00	-47.05
3800.00	-52.68	-59.39	12.50	-5.79	-13.00	-39.68

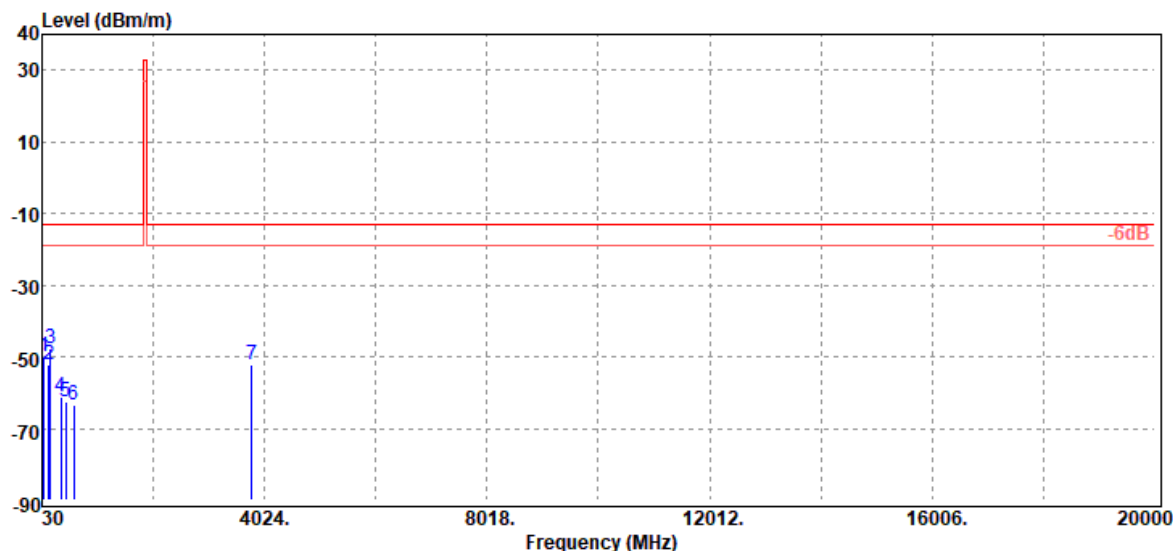
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Project Number : T190327W11
Operation Band :LTE B2 20 QPSK 1.0
Fundamental Frequency :1900 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
71.71	-50.19	-39.89	-9.60	-0.70	-13.00	-37.19
148.34	-52.16	-43.89	-7.27	-1.00	-13.00	-39.16
178.41	-47.49	-41.83	-4.56	-1.10	-13.00	-34.49
374.35	-61.33	-58.02	-1.71	-1.60	-13.00	-48.33
458.74	-62.62	-58.74	-2.10	-1.78	-13.00	-49.62
602.30	-63.65	-60.63	-0.95	-2.07	-13.00	-50.65
3800.00	-52.25	-58.96	12.50	-5.79	-13.00	-39.25

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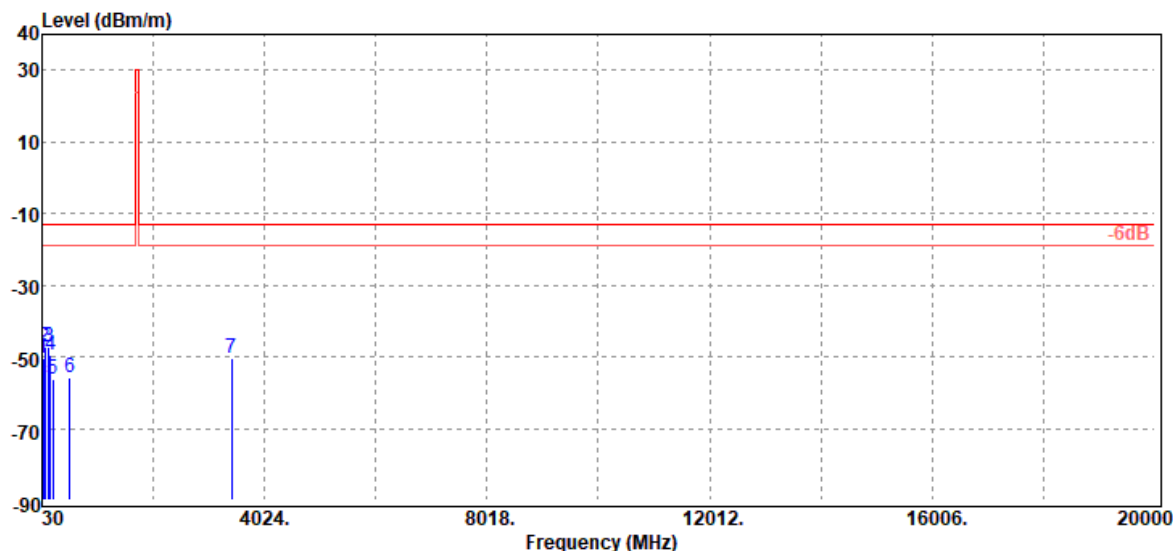
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Radiated Spurious Emission Measurement Result: LTE-Band 4 (The Worst Case)

Project Number : T190327W11
Operation Band : LTE B4 15 QPSK 1.0
Fundamental Frequency : 1717.5 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-21
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-50.46	-36.37	-13.53	-0.56	-13.00	-37.46
73.65	-47.46	-37.66	-9.10	-0.70	-13.00	-34.46
148.34	-47.27	-39	-7.27	-1.00	-13.00	-34.27
178.41	-49.43	-43.77	-4.56	-1.10	-13.00	-36.43
221.09	-56.31	-53.11	-1.98	-1.22	-13.00	-43.31
532.46	-55.82	-52.6	-1.30	-1.92	-13.00	-42.82
3435.00	-50.40	-57.63	12.73	-5.50	-13.00	-37.40

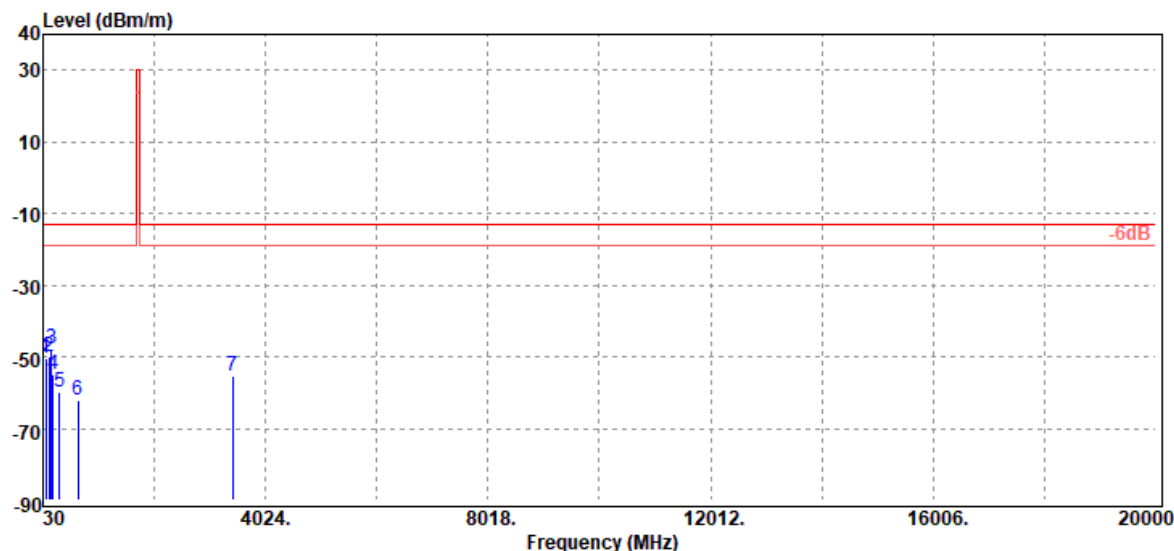
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Project Number : T190327W11
Operation Band :LTE B4 15 QPSK 1.0
Fundamental Frequency :1717.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.37	-40.57	-9.10	-0.70	-13.00	-37.37
141.55	-50.15	-40.87	-8.30	-0.98	-13.00	-37.15
178.41	-47.51	-41.85	-4.56	-1.10	-13.00	-34.51
217.21	-54.77	-51.5	-2.06	-1.21	-13.00	-41.77
322.94	-60.05	-56.76	-1.80	-1.49	-13.00	-47.05
663.41	-61.94	-58.3	-1.47	-2.17	-13.00	-48.94
3435.00	-55.24	-62.47	12.73	-5.50	-13.00	-42.24

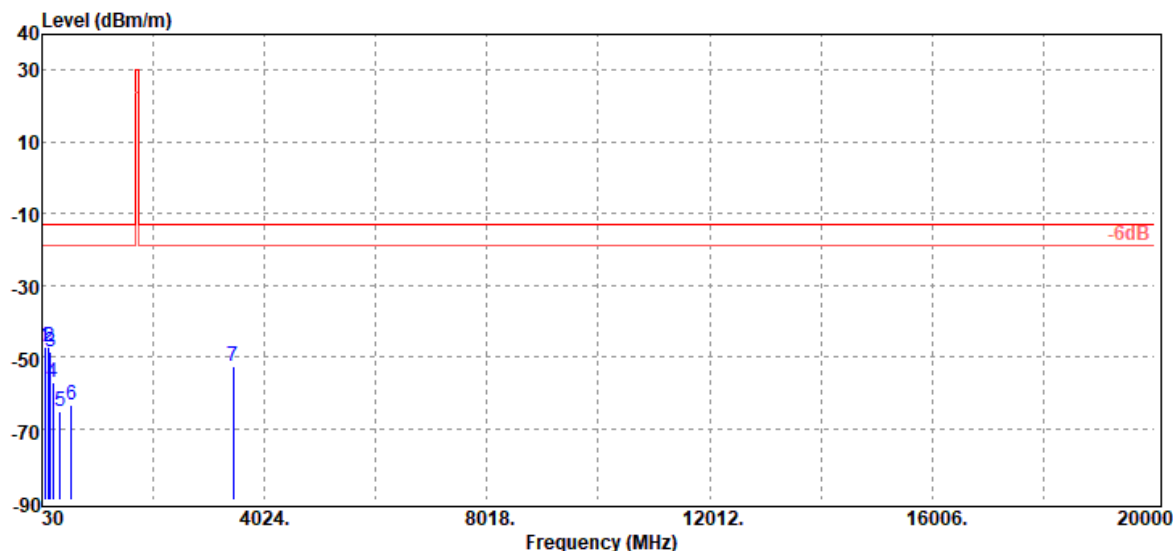
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Project Number : T190327W11
Operation Band :LTE B4 15 QPSK 1.0
Fundamental Frequency :1732.5 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-47.30	-37.5	-9.10	-0.70	-13.00	-34.30
148.34	-47.16	-38.89	-7.27	-1.00	-13.00	-34.16
178.41	-48.42	-42.76	-4.56	-1.10	-13.00	-35.42
221.09	-57.07	-53.87	-1.98	-1.22	-13.00	-44.07
359.80	-65.09	-61.74	-1.78	-1.57	-13.00	-52.09
550.89	-63.40	-60.23	-1.22	-1.95	-13.00	-50.40
3465.00	-52.89	-60	12.64	-5.53	-13.00	-39.89

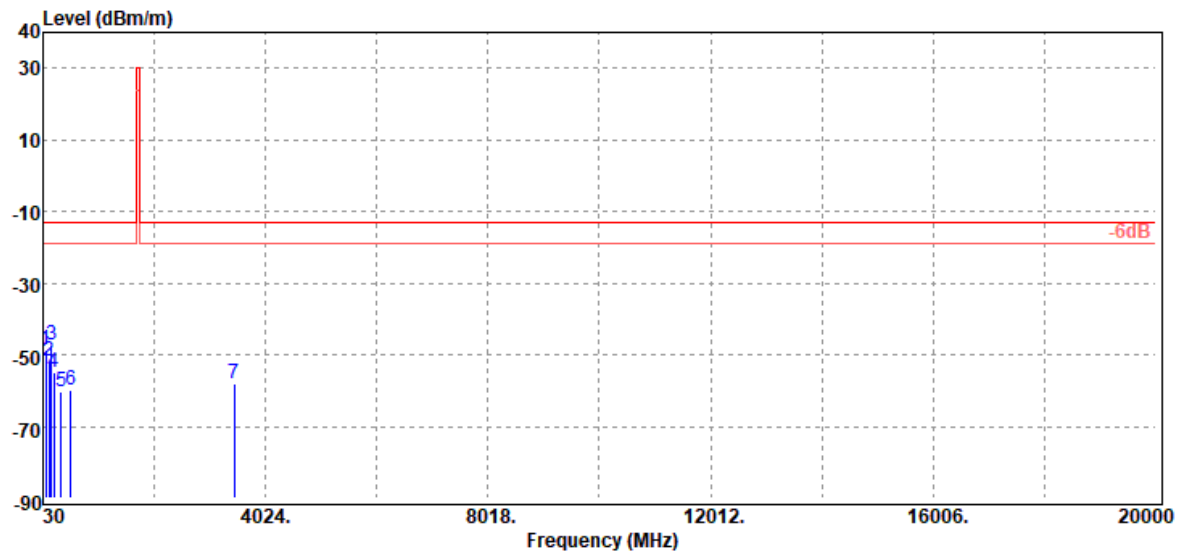
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Project Number : T190327W11
Operation Band :LTE B4 15 QPSK 1.0
Fundamental Frequency :1732.5 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-48.60	-38.8	-9.10	-0.70	-13.00	-35.60
138.64	-51.59	-41.88	-8.74	-0.97	-13.00	-38.59
178.41	-47.17	-41.51	-4.56	-1.10	-13.00	-34.17
219.15	-55.03	-51.79	-2.02	-1.22	-13.00	-42.03
348.16	-60.46	-57.42	-1.50	-1.54	-13.00	-47.46
532.46	-59.92	-56.7	-1.30	-1.92	-13.00	-46.92
3465.00	-58.16	-65.27	12.64	-5.53	-13.00	-45.16

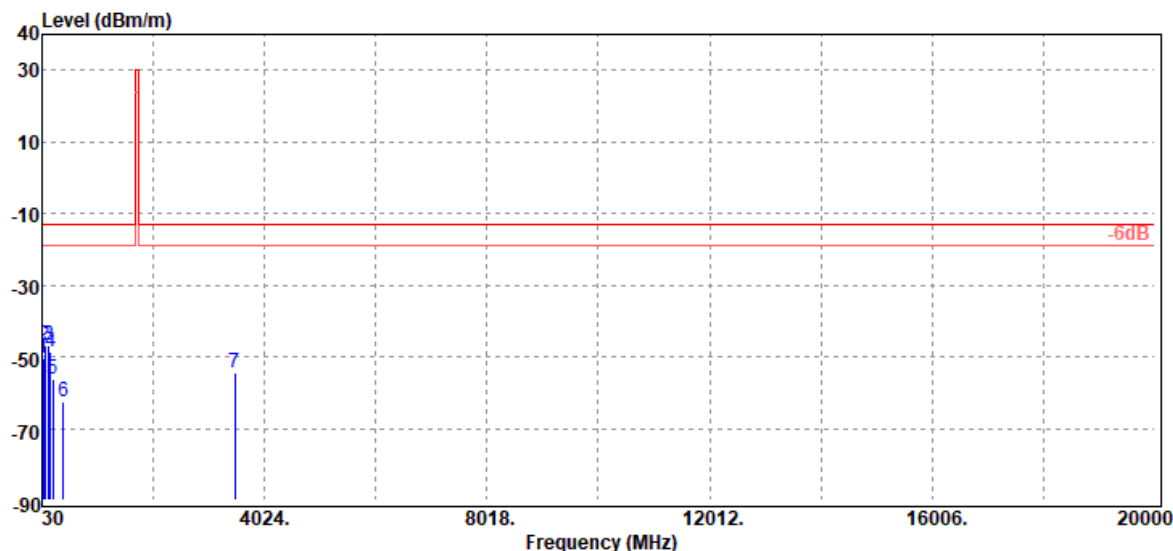
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Project Number : T190327W11
Operation Band :LTE B4 15 QPSK 1.0
Fundamental Frequency :1747.5 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-50.47	-36.38	-13.53	-0.56	-13.00	-37.47
73.65	-47.01	-37.21	-9.10	-0.70	-13.00	-34.01
148.34	-46.81	-38.54	-7.27	-1.00	-13.00	-33.81
178.41	-48.70	-43.04	-4.56	-1.10	-13.00	-35.70
219.15	-56.14	-52.9	-2.02	-1.22	-13.00	-43.14
416.06	-62.59	-59	-1.90	-1.69	-13.00	-49.59
3495.00	-54.61	-61.58	12.52	-5.55	-13.00	-41.61

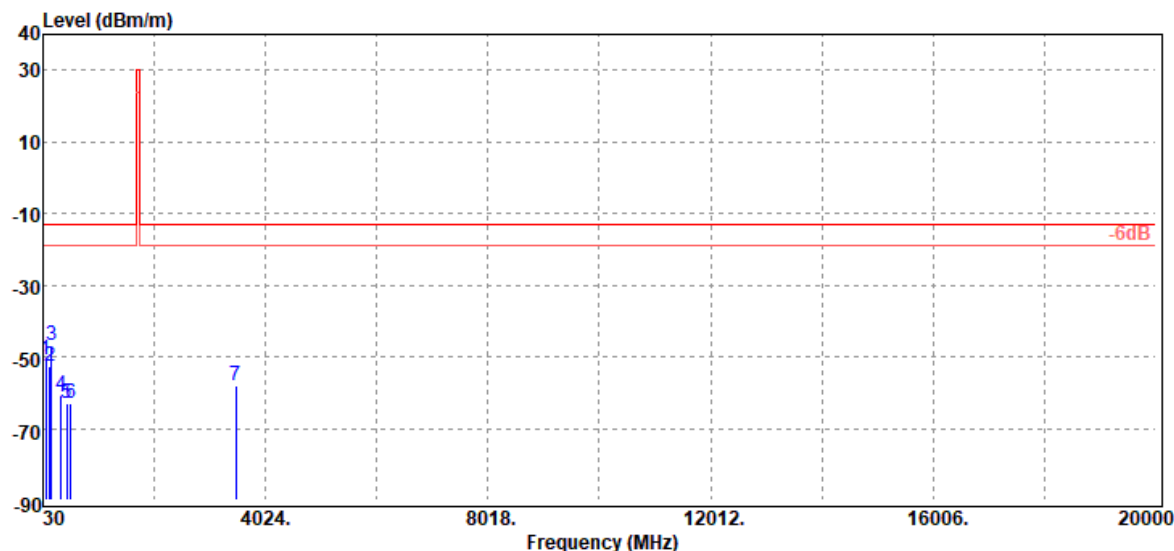
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Project Number : T190327W11
Operation Band :LTE B4 15 QPSK 1.0
Fundamental Frequency :1747.5 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.64	-40.84	-9.10	-0.70	-13.00	-37.64
148.34	-52.54	-44.27	-7.27	-1.00	-13.00	-39.54
178.41	-46.84	-41.18	-4.56	-1.10	-13.00	-33.84
353.01	-60.73	-57.74	-1.44	-1.55	-13.00	-47.73
459.71	-63.08	-59.2	-2.10	-1.78	-13.00	-50.08
532.46	-63.17	-59.95	-1.30	-1.92	-13.00	-50.17
3495.00	-58.16	-65.13	12.52	-5.55	-13.00	-45.16

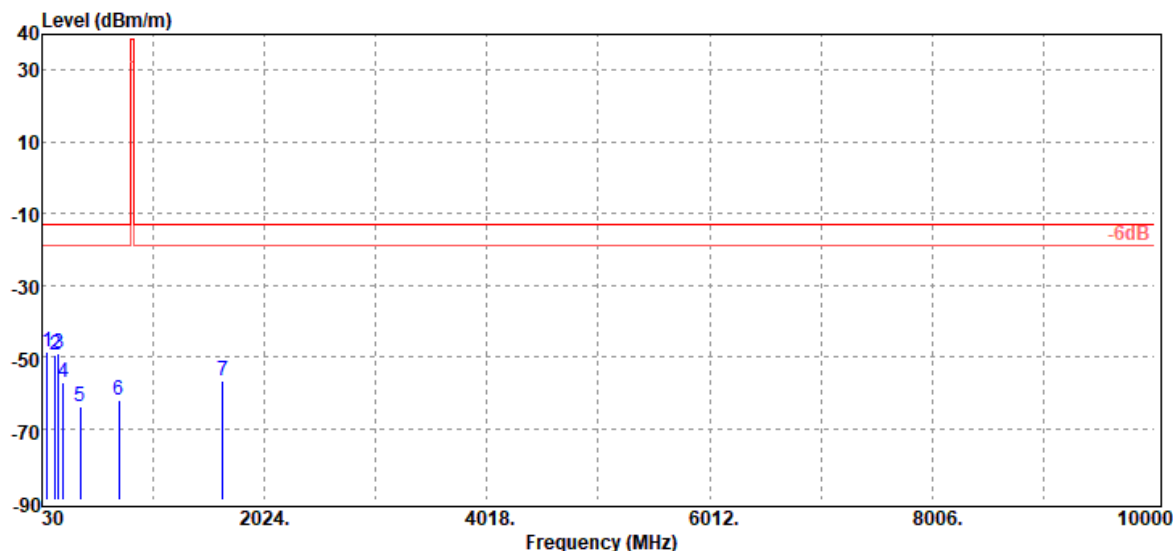
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Radiated Spurious Emission Measurement Result: LTE-Band 5 (The Worst Case)

Project Number	: T190327W11	Test Date	:2019-05-20
Operation Band	:LTE B5 3 QPSK 1.14	Temp./Humi.	:21.2/61
Fundamental Frequency	:825.5 MHz	Engineer	:Jerry
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-48.63	-38.83	-9.10	-0.70	-13.00	-35.63
149.31	-49.43	-41.26	-7.17	-1.00	-13.00	-36.43
180.35	-49.14	-43.68	-4.36	-1.10	-13.00	-36.14
222.06	-57.03	-53.85	-1.96	-1.22	-13.00	-44.03
374.35	-64.10	-60.79	-1.71	-1.60	-13.00	-51.10
720.64	-61.94	-58.28	-1.40	-2.26	-13.00	-48.94
1651.00	-56.67	-62.83	9.71	-3.55	-13.00	-43.67

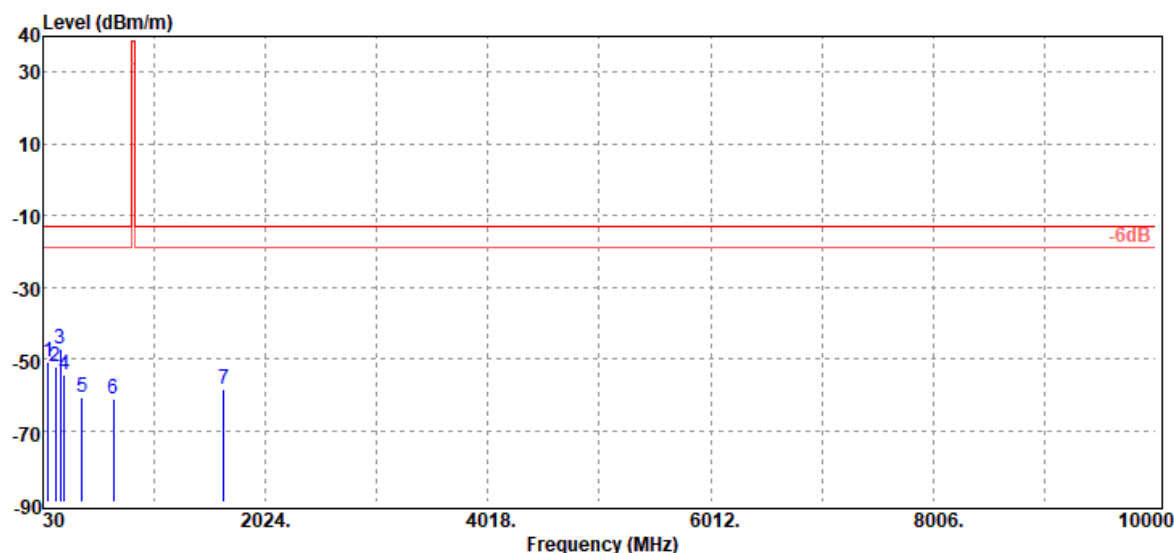
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Project Number : T190327W11
Operation Band :LTE B5 3 QPSK 1.14
Fundamental Frequency :825.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.84	-41.04	-9.10	-0.70	-13.00	-37.84
143.49	-52.13	-43.15	-8.00	-0.98	-13.00	-39.13
185.20	-47.06	-41.86	-4.08	-1.12	-13.00	-34.06
219.15	-54.52	-51.28	-2.02	-1.22	-13.00	-41.52
379.20	-60.92	-57.78	-1.53	-1.61	-13.00	-47.92
663.41	-61.09	-57.45	-1.47	-2.17	-13.00	-48.09
1651.00	-58.73	-64.89	9.71	-3.55	-13.00	-45.73

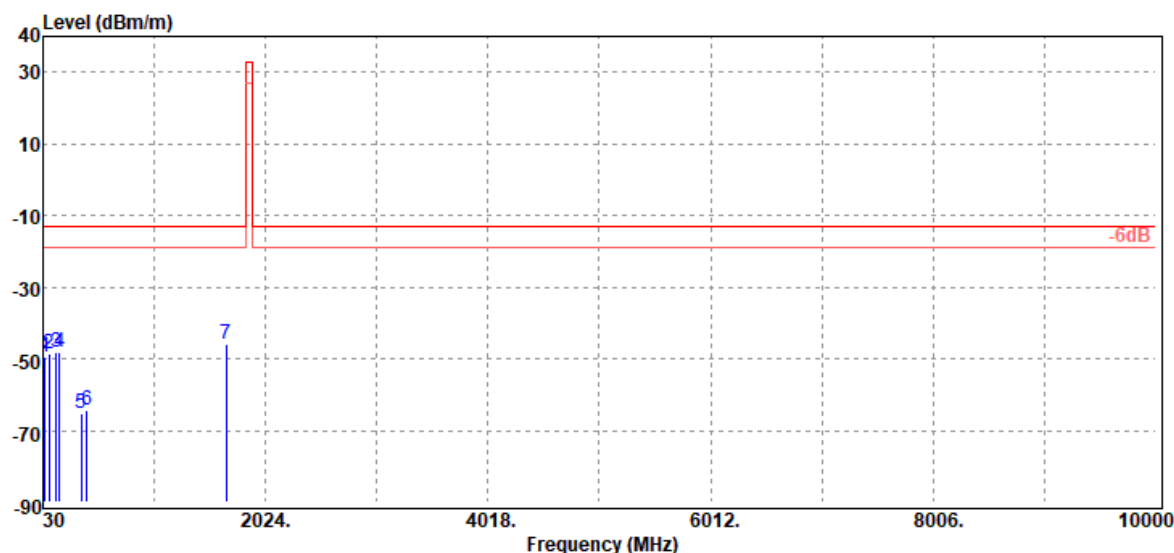
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Project Number : T190327W11
Operation Band :LTE B5 3 QPSK 1.14
Fundamental Frequency :836.5 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-49.68	-35.59	-13.53	-0.56	-13.00	-36.68
83.35	-48.40	-39.42	-8.23	-0.75	-13.00	-35.40
149.31	-48.23	-40.06	-7.17	-1.00	-13.00	-35.23
178.41	-48.36	-42.7	-4.56	-1.10	-13.00	-35.36
369.50	-65.48	-62.09	-1.80	-1.59	-13.00	-52.48
420.91	-64.21	-60.61	-1.90	-1.70	-13.00	-51.21
1673.00	-45.82	-52.08	9.84	-3.58	-13.00	-32.82

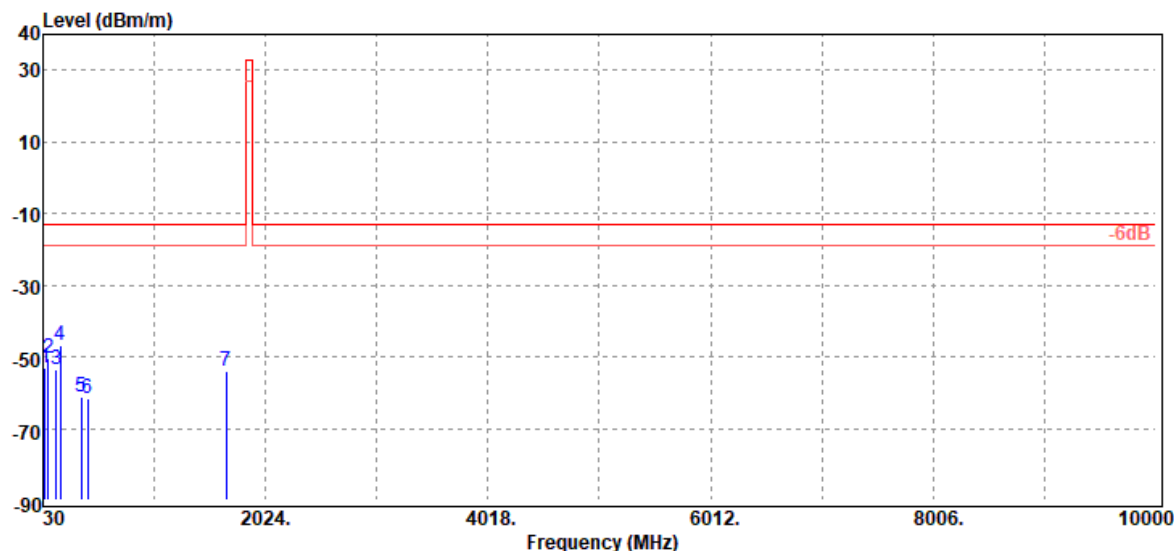
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Project Number : T190327W11
Operation Band :LTE B5 3 QPSK 1.14
Fundamental Frequency :836.5 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-53.17	-38.26	-14.36	-0.55	-13.00	-40.17
73.65	-50.63	-40.83	-9.10	-0.70	-13.00	-37.63
148.34	-53.40	-45.13	-7.27	-1.00	-13.00	-40.40
182.29	-46.81	-41.5	-4.20	-1.11	-13.00	-33.81
374.35	-61.02	-57.71	-1.71	-1.60	-13.00	-48.02
427.70	-61.45	-57.84	-1.90	-1.71	-13.00	-48.45
1673.00	-54.22	-60.48	9.84	-3.58	-13.00	-41.22

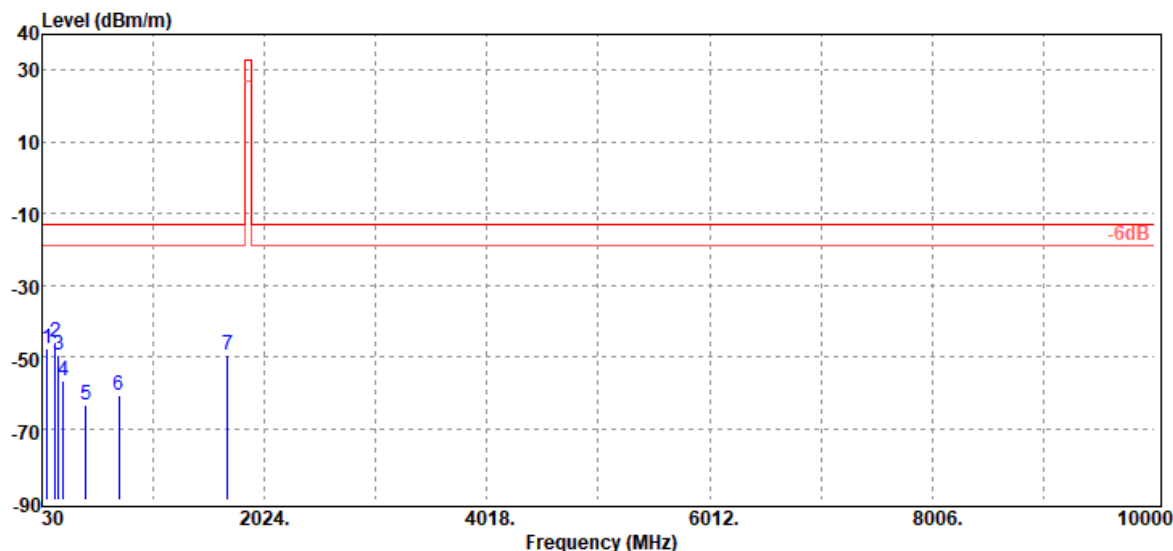
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Project Number : T190327W11
Operation Band :LTE B5 3 QPSK 1.14
Fundamental Frequency :847.5 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-47.70	-37.9	-9.10	-0.70	-13.00	-34.70
148.34	-45.86	-37.59	-7.27	-1.00	-13.00	-32.86
178.41	-49.50	-43.84	-4.56	-1.10	-13.00	-36.50
219.15	-56.63	-53.39	-2.02	-1.22	-13.00	-43.63
422.85	-63.61	-60.01	-1.90	-1.70	-13.00	-50.61
720.64	-60.82	-57.16	-1.40	-2.26	-13.00	-47.82
1695.00	-49.42	-55.79	9.97	-3.60	-13.00	-36.42

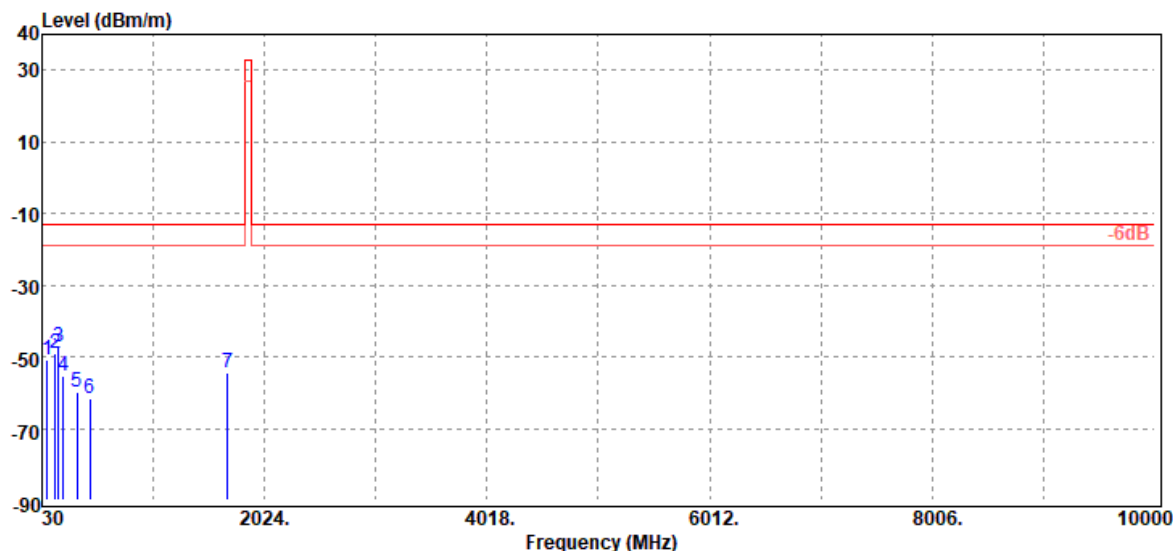
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Project Number : T190327W11
Operation Band :LTE B5 3 QPSK 1.14
Fundamental Frequency :847.5 MHz
Operation Mode :Tx CH High
EUT Pol. :E2 Plan

Test Date :2019-05-21
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
73.65	-50.83	-41.03	-9.10	-0.70	-13.00	-37.83
148.34	-49.24	-40.97	-7.27	-1.00	-13.00	-36.24
178.41	-47.42	-41.76	-4.56	-1.10	-13.00	-34.42
221.09	-55.31	-52.11	-1.98	-1.22	-13.00	-42.31
347.19	-59.75	-56.71	-1.50	-1.54	-13.00	-46.75
459.71	-61.68	-57.8	-2.10	-1.78	-13.00	-48.68
1695.00	-54.63	-61	9.97	-3.60	-13.00	-41.63

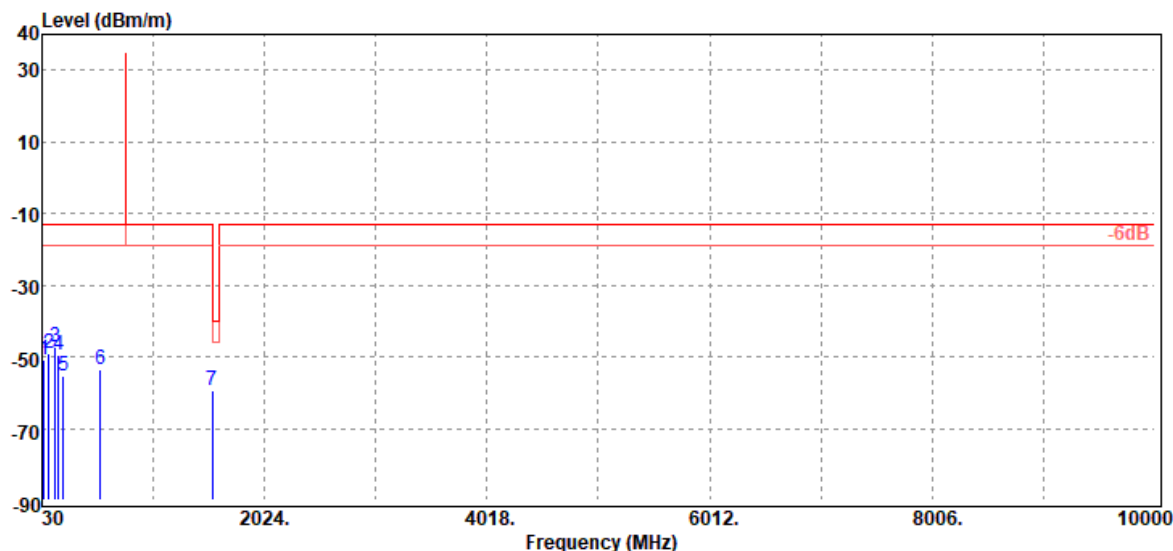
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Radiated Spurious Emission Measurement Result: LTE-Band 13 (The Worst Case)

Project Number	: T190327W11	Test Date	: 2019-05-20
Operation Band	: LTE B13 5 QPSK 1.24	Temp./Humi.	: 21.2/61
Fundamental Frequency	: 779.5 MHz	Engineer	: Jerry
Operation Mode	: Tx CH Low	Measurement Antenna Pol.	: VERTICAL
EUT Pol.	: E2 Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-50.82	-35.91	-14.36	-0.55	-13.00	-37.82
88.20	-48.85	-40.92	-7.16	-0.77	-13.00	-35.85
148.34	-47.43	-39.16	-7.27	-1.00	-13.00	-34.43
180.35	-49.59	-44.13	-4.36	-1.10	-13.00	-36.59
219.15	-55.36	-52.12	-2.02	-1.22	-13.00	-42.36
550.89	-53.78	-50.61	-1.22	-1.95	-13.00	-40.78
1559.00	-59.47	-65.38	9.35	-3.44	-40.00	-19.47

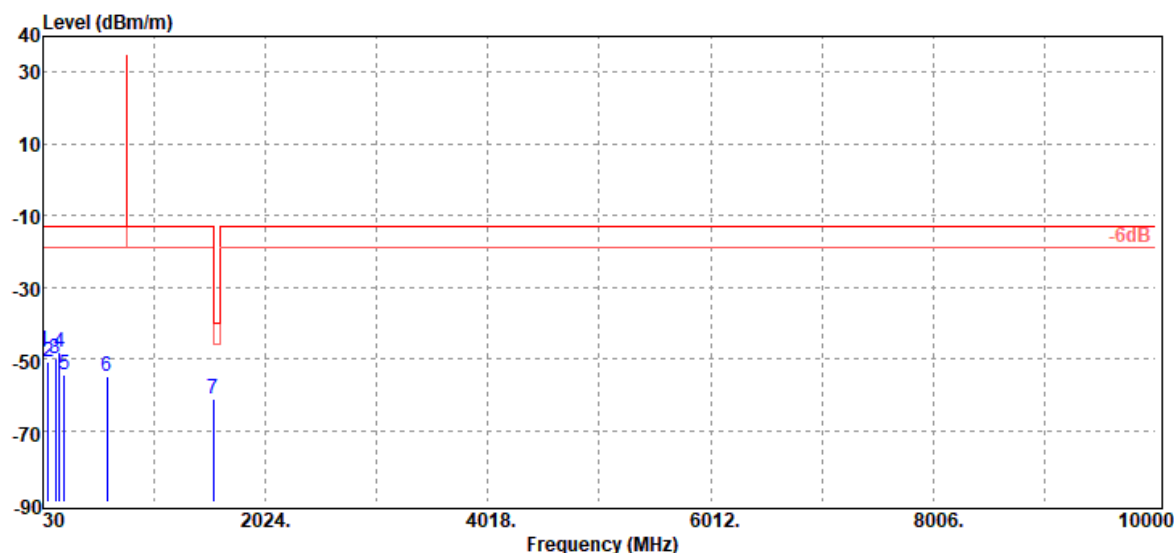
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :779.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.92	-17.37	-30.10	-0.45	-13.00	-34.92
73.65	-50.74	-40.94	-9.10	-0.70	-13.00	-37.74
143.49	-49.78	-40.8	-8.00	-0.98	-13.00	-36.78
180.35	-48.01	-42.55	-4.36	-1.10	-13.00	-35.01
219.15	-54.61	-51.37	-2.02	-1.22	-13.00	-41.61
605.21	-55.07	-51.99	-1.00	-2.08	-13.00	-42.07
1559.00	-61.27	-67.18	9.35	-3.44	-40.00	-21.27

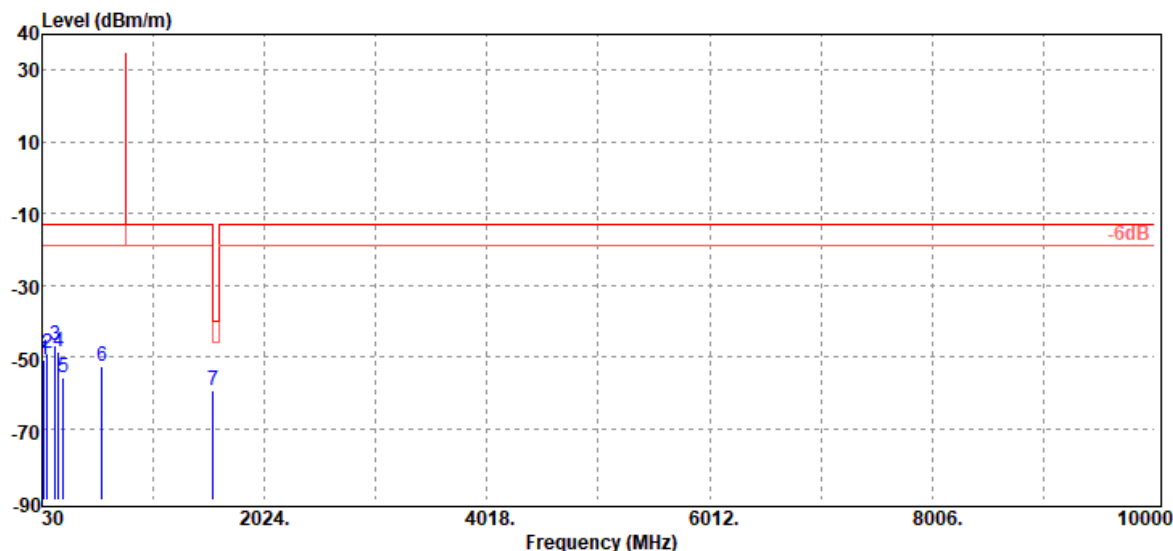
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-50.84	-35.93	-14.36	-0.55	-13.00	-37.84
73.65	-49.26	-39.46	-9.10	-0.70	-13.00	-36.26
146.40	-46.77	-38.24	-7.54	-0.99	-13.00	-33.77
178.41	-48.53	-42.87	-4.56	-1.10	-13.00	-35.53
221.09	-55.93	-52.73	-1.98	-1.22	-13.00	-42.93
568.35	-52.76	-49.37	-1.40	-1.99	-13.00	-39.76
1564.00	-59.61	-65.55	9.38	-3.44	-40.00	-19.61

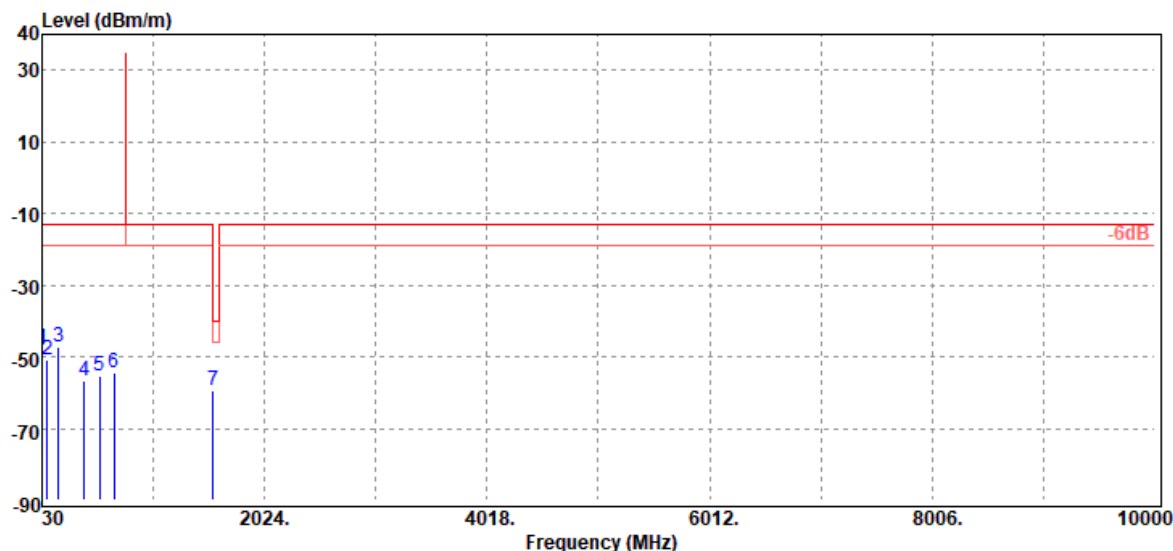
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.74	-17.19	-30.10	-0.45	-13.00	-34.74
73.65	-51.00	-41.2	-9.10	-0.70	-13.00	-38.00
178.41	-47.06	-41.4	-4.56	-1.10	-13.00	-34.06
405.39	-56.85	-53.38	-1.80	-1.67	-13.00	-43.85
544.10	-55.43	-52.27	-1.22	-1.94	-13.00	-42.43
676.99	-54.33	-50.84	-1.30	-2.19	-13.00	-41.33
1564.00	-59.34	-65.28	9.38	-3.44	-40.00	-19.34

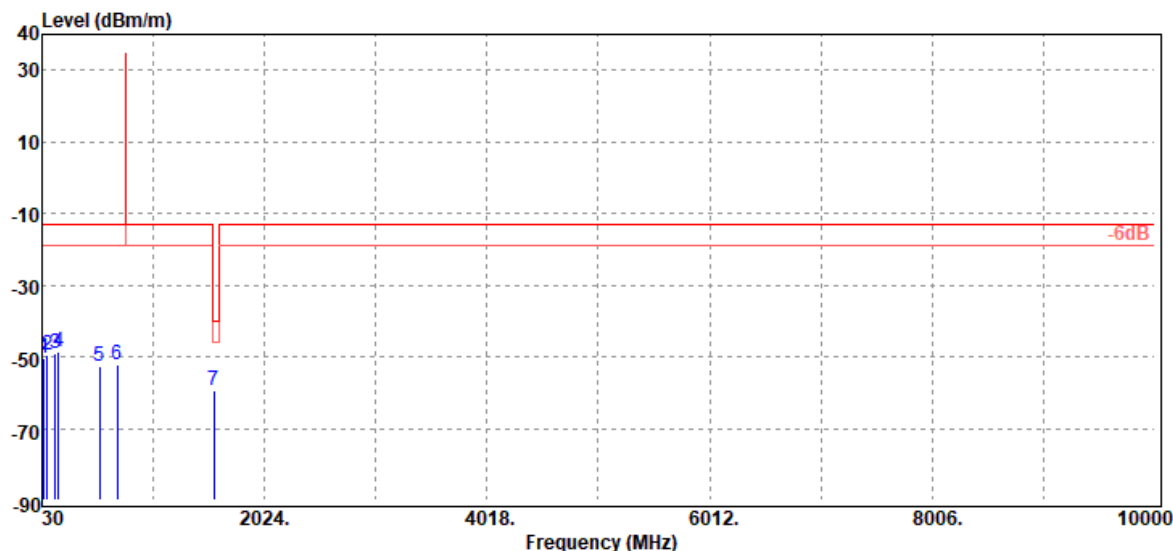
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-50.58	-35.67	-14.36	-0.55	-13.00	-37.58
73.65	-49.46	-39.66	-9.10	-0.70	-13.00	-36.46
149.31	-48.86	-40.69	-7.17	-1.00	-13.00	-35.86
180.35	-48.50	-43.04	-4.36	-1.10	-13.00	-35.50
548.95	-52.66	-49.51	-1.20	-1.95	-13.00	-39.66
706.09	-52.40	-48.68	-1.48	-2.24	-13.00	-39.40
1569.00	-59.53	-65.49	9.41	-3.45	-40.00	-19.53

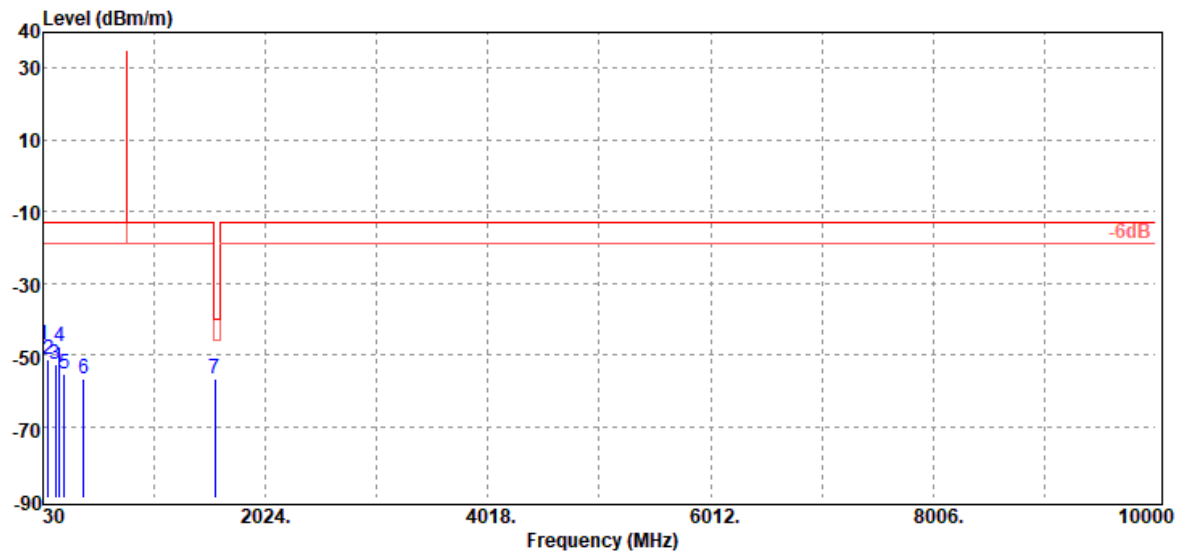
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.37	-16.82	-30.10	-0.45	-13.00	-34.37
73.65	-51.31	-41.51	-9.10	-0.70	-13.00	-38.31
143.49	-52.67	-43.69	-8.00	-0.98	-13.00	-39.67
180.35	-47.63	-42.17	-4.36	-1.10	-13.00	-34.63
219.15	-55.50	-52.26	-2.02	-1.22	-13.00	-42.50
390.84	-56.62	-53.55	-1.43	-1.64	-13.00	-43.62
1569.00	-56.67	-62.63	9.41	-3.45	-40.00	-16.67

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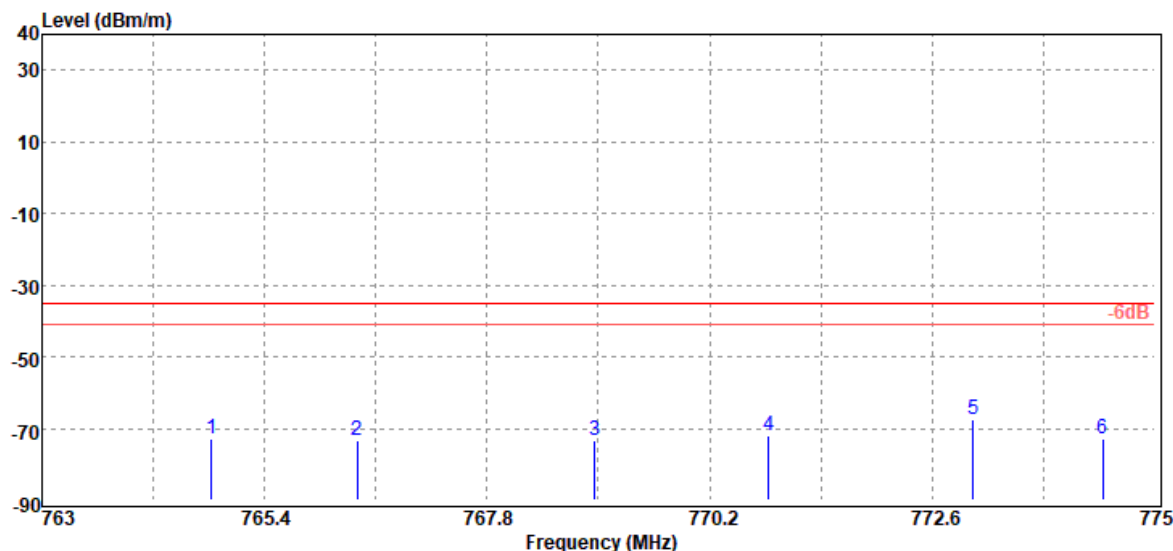
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Radiated Spurious Emission Measurement Result: LTE-Band 13(763-775) (The Worst Case)

Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :779.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.82	-72.83	-69.1	-1.40	-2.33	-35.00	-37.83
766.40	-73.47	-69.74	-1.40	-2.33	-35.00	-38.47
768.96	-73.24	-69.51	-1.40	-2.33	-35.00	-38.24
770.84	-71.79	-68.06	-1.40	-2.33	-35.00	-36.79
773.04	-67.51	-63.77	-1.40	-2.34	-35.00	-32.51
774.44	-72.92	-69.18	-1.40	-2.34	-35.00	-37.92

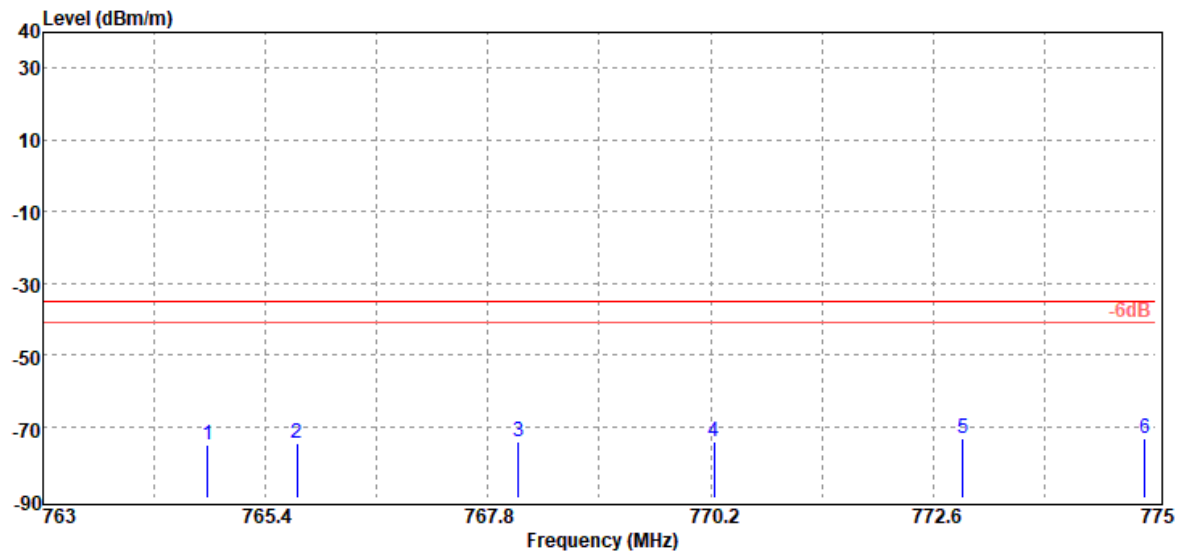
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :779.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.78	-75.12	-71.39	-1.40	-2.33	-35.00	-40.12
765.74	-74.88	-71.15	-1.40	-2.33	-35.00	-39.88
768.12	-74.48	-70.75	-1.40	-2.33	-35.00	-39.48
770.24	-74.44	-70.71	-1.40	-2.33	-35.00	-39.44
772.92	-73.21	-69.47	-1.40	-2.34	-35.00	-38.21
774.88	-73.48	-69.74	-1.40	-2.34	-35.00	-38.48

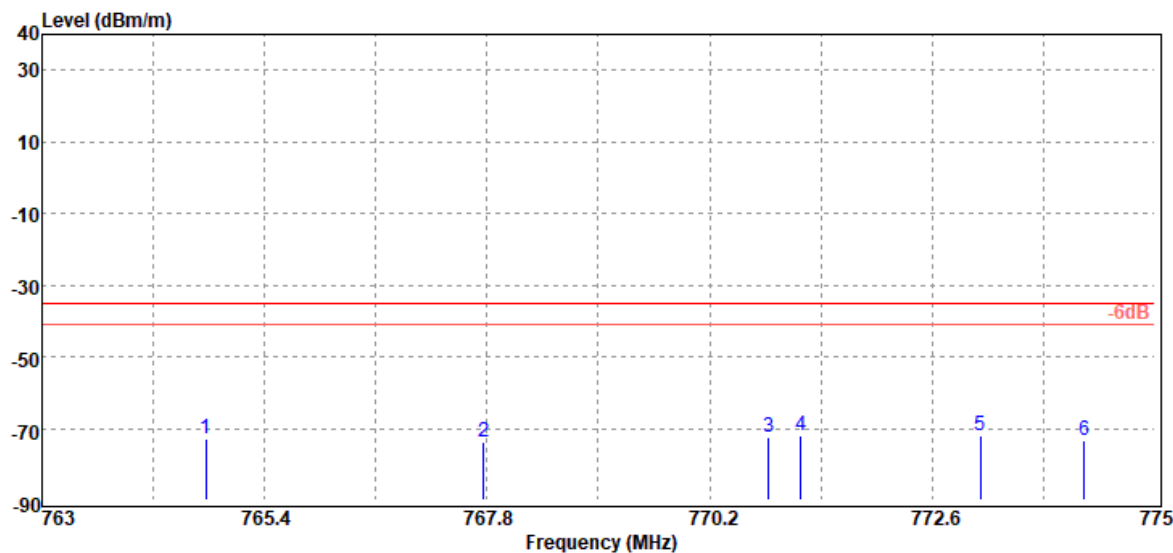
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.76	-73.06	-69.33	-1.40	-2.33	-35.00	-38.06
767.76	-73.68	-69.95	-1.40	-2.33	-35.00	-38.68
770.84	-72.41	-68.68	-1.40	-2.33	-35.00	-37.41
771.18	-72.19	-68.46	-1.40	-2.33	-35.00	-37.19
773.12	-71.86	-68.12	-1.40	-2.34	-35.00	-36.86
774.24	-73.18	-69.44	-1.40	-2.34	-35.00	-38.18

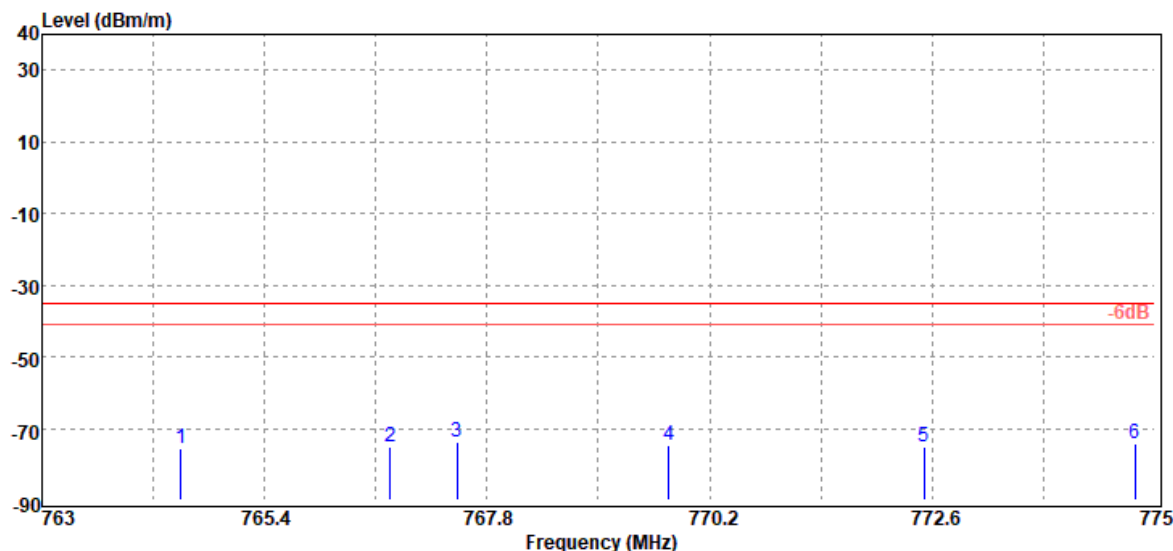
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
764.50	-75.40	-71.67	-1.40	-2.33	-35.00	-40.40
766.76	-75.13	-71.4	-1.40	-2.33	-35.00	-40.13
767.48	-74.03	-70.3	-1.40	-2.33	-35.00	-39.03
769.76	-74.70	-70.97	-1.40	-2.33	-35.00	-39.70
772.52	-75.05	-71.31	-1.40	-2.34	-35.00	-40.05
774.78	-74.06	-70.32	-1.40	-2.34	-35.00	-39.06

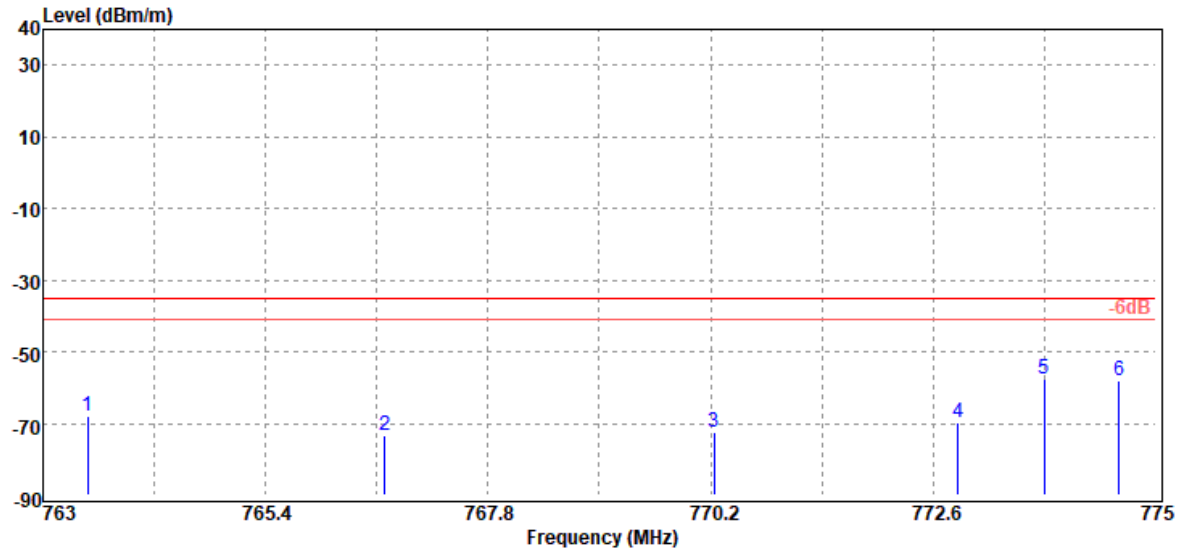
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
763.48	-67.99	-64.26	-1.40	-2.33	-35.00	-32.99
766.68	-73.17	-69.44	-1.40	-2.33	-35.00	-38.17
770.24	-72.34	-68.61	-1.40	-2.33	-35.00	-37.34
772.86	-69.60	-65.86	-1.40	-2.34	-35.00	-34.60
773.80	-57.71	-53.97	-1.40	-2.34	-35.00	-22.71
774.60	-58.27	-54.53	-1.40	-2.34	-35.00	-23.27

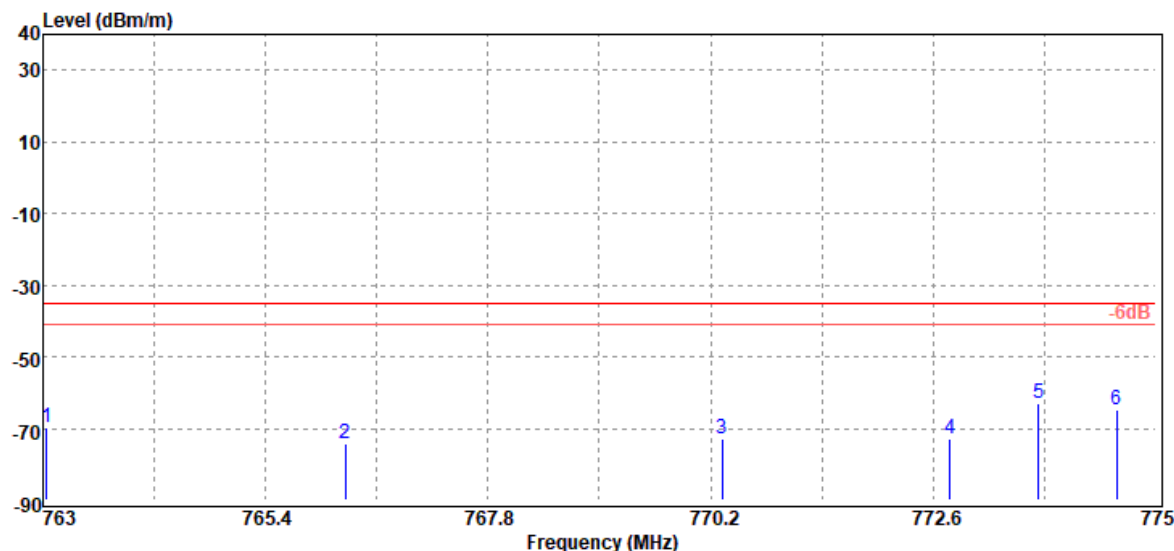
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
763.04	-69.58	-65.85	-1.40	-2.33	-35.00	-34.58
766.26	-74.05	-70.32	-1.40	-2.33	-35.00	-39.05
770.32	-73.00	-69.27	-1.40	-2.33	-35.00	-38.00
772.78	-72.80	-69.06	-1.40	-2.34	-35.00	-37.80
773.74	-62.96	-59.22	-1.40	-2.34	-35.00	-27.96
774.58	-64.99	-61.25	-1.40	-2.34	-35.00	-29.99

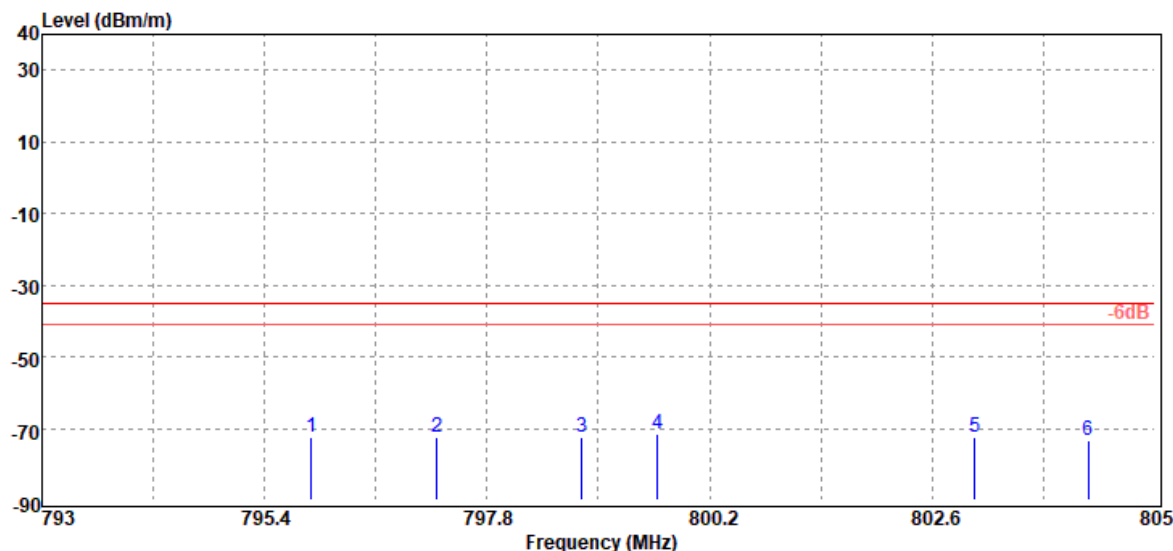
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Radiated Spurious Emission Measurement Result: LTE-Band 13(793-805) (The Worst Case)

Project Number	: T190327W11	Test Date	:2019-05-20
Operation Band	:LTE B13 5 QPSK 1.24	Temp./Humi.	:21.2/61
Fundamental Frequency	:779.5 MHz	Engineer	:Jerry
Operation Mode	:Tx CH Low	Measurement Antenna Pol.	:VERTICAL
EUT Pol.	:E2 Plan		



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
795.90	-72.25	-68.67	-1.22	-2.36	-35.00	-37.25
797.26	-72.35	-68.73	-1.25	-2.37	-35.00	-37.35
798.82	-72.56	-68.91	-1.28	-2.37	-35.00	-37.56
799.64	-71.49	-67.83	-1.29	-2.37	-35.00	-36.49
803.06	-72.50	-68.76	-1.36	-2.38	-35.00	-37.50
804.28	-73.29	-69.52	-1.39	-2.38	-35.00	-38.29

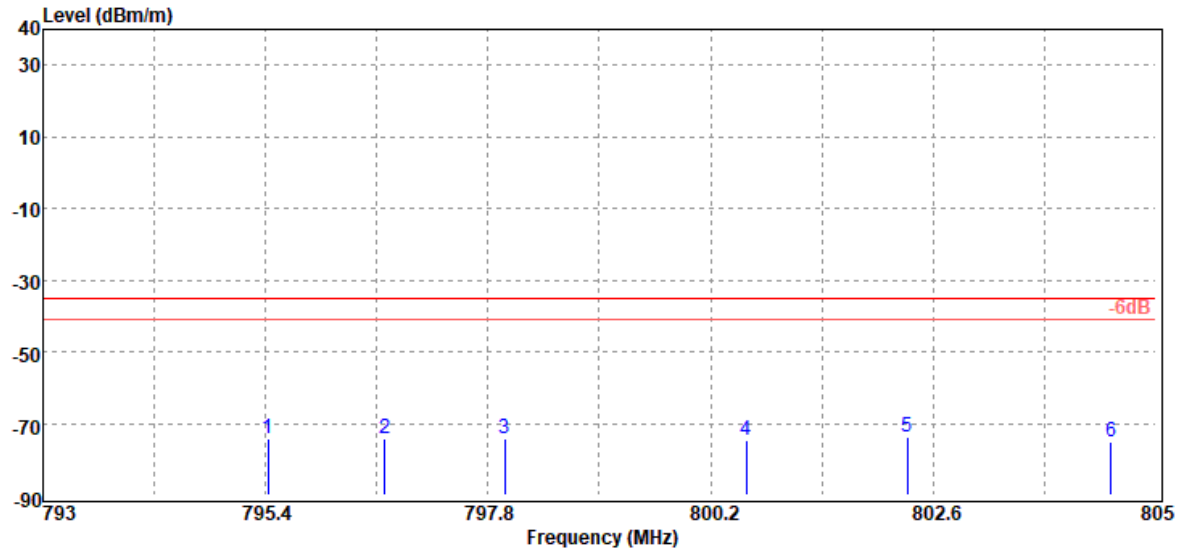
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :779.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
795.42	-74.43	-70.86	-1.21	-2.36	-35.00	-39.43
796.68	-74.24	-70.64	-1.23	-2.37	-35.00	-39.24
797.98	-74.20	-70.57	-1.26	-2.37	-35.00	-39.20
800.58	-74.57	-70.89	-1.31	-2.37	-35.00	-39.57
802.32	-73.97	-70.25	-1.35	-2.37	-35.00	-38.97
804.52	-75.19	-71.42	-1.39	-2.38	-35.00	-40.19

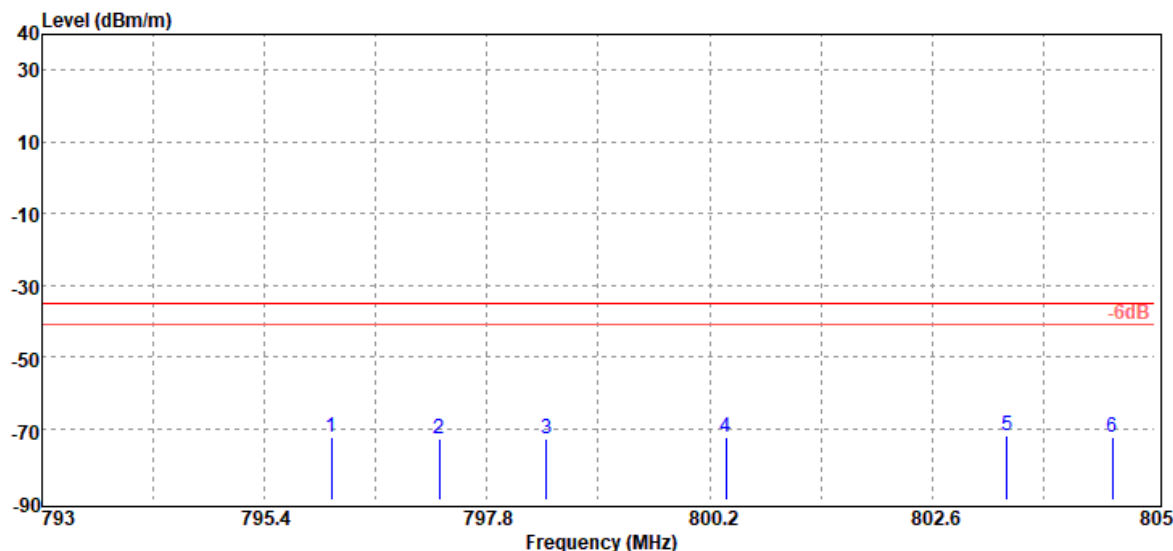
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
796.12	-72.63	-69.05	-1.22	-2.36	-35.00	-37.63
797.28	-72.69	-69.07	-1.25	-2.37	-35.00	-37.69
798.44	-73.08	-69.44	-1.27	-2.37	-35.00	-38.08
800.38	-72.33	-68.65	-1.31	-2.37	-35.00	-37.33
803.40	-72.05	-68.3	-1.37	-2.38	-35.00	-37.05
804.54	-72.45	-68.68	-1.39	-2.38	-35.00	-37.45

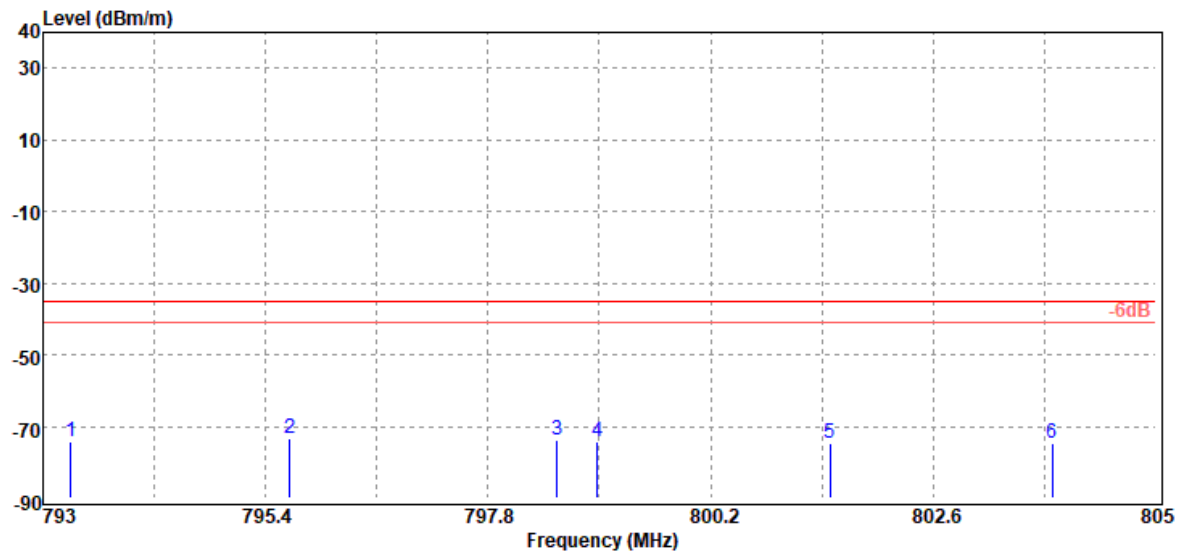
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :782 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
793.30	-74.09	-70.5	-1.23	-2.36	-35.00	-39.09
795.66	-73.40	-69.83	-1.21	-2.36	-35.00	-38.40
798.54	-73.68	-70.04	-1.27	-2.37	-35.00	-38.68
798.98	-74.07	-70.42	-1.28	-2.37	-35.00	-39.07
801.48	-74.51	-70.81	-1.33	-2.37	-35.00	-39.51
803.88	-74.63	-70.87	-1.38	-2.38	-35.00	-39.63

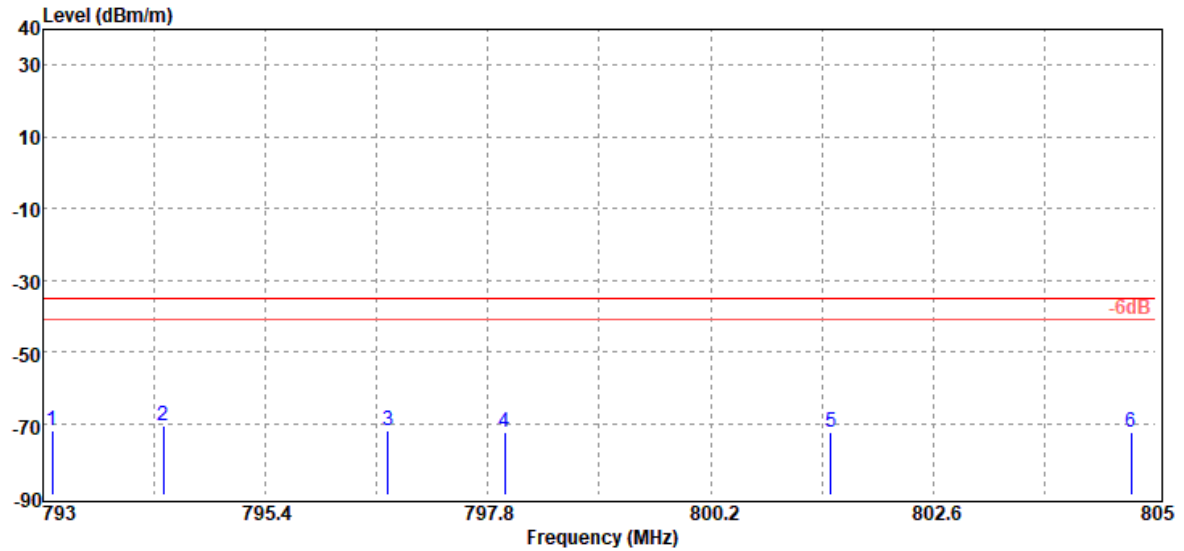
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
793.10	-71.79	-68.19	-1.24	-2.36	-35.00	-36.79
794.30	-70.56	-66.99	-1.21	-2.36	-35.00	-35.56
796.72	-71.84	-68.24	-1.23	-2.37	-35.00	-36.84
797.98	-72.43	-68.8	-1.26	-2.37	-35.00	-37.43
801.50	-72.47	-68.77	-1.33	-2.37	-35.00	-37.47
804.74	-72.30	-68.53	-1.39	-2.38	-35.00	-37.30

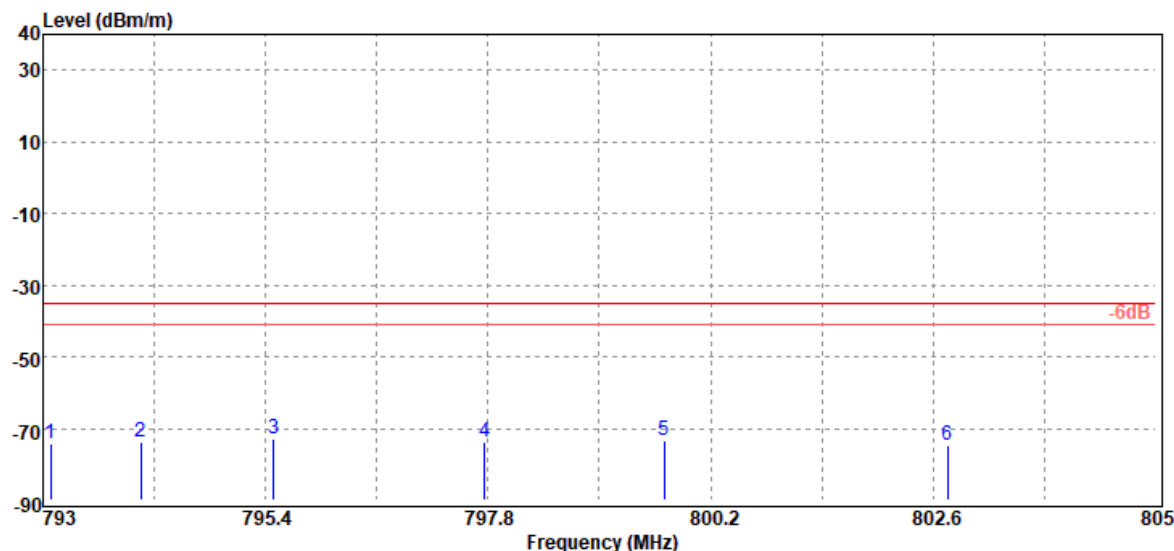
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Project Number : T190327W11
Operation Band :LTE B13 5 QPSK 1.24
Fundamental Frequency :784.5MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
793.08	-74.28	-70.68	-1.24	-2.36	-35.00	-39.28
794.06	-73.77	-70.19	-1.22	-2.36	-35.00	-38.77
795.48	-72.94	-69.37	-1.21	-2.36	-35.00	-37.94
797.76	-74.03	-70.4	-1.26	-2.37	-35.00	-39.03
799.70	-73.52	-69.86	-1.29	-2.37	-35.00	-38.52
802.76	-74.49	-70.75	-1.36	-2.38	-35.00	-39.49

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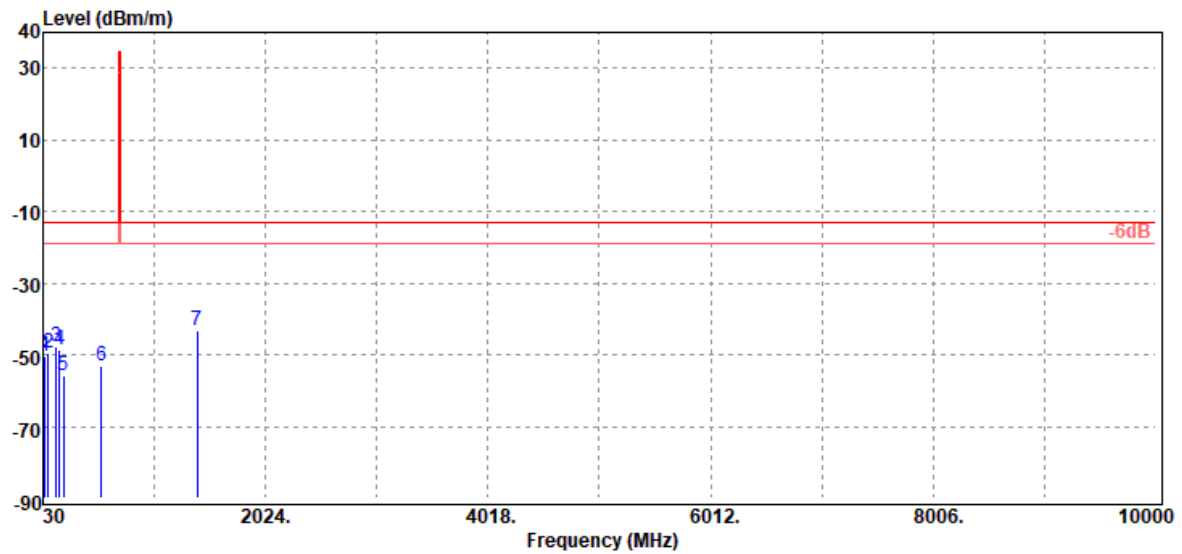
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Radiated Spurious Emission Measurement Result: LTE-Band 17 (The Worst Case)

Project Number : T190327W11
Operation Band : LTE B17 5 QPSK 1.24
Fundamental Frequency : 706.5 MHz
Operation Mode : Tx CH Low
EUT Pol. : E2 Plan

Test Date : 2019-05-20
Temp./Humi. : 21.2/61
Engineer : Jerry
Measurement Antenna Pol. : VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
46.49	-50.52	-35.61	-14.36	-0.55	-13.00	-37.52
73.65	-49.33	-39.53	-9.10	-0.70	-13.00	-36.33
149.31	-47.62	-39.45	-7.17	-1.00	-13.00	-34.62
177.44	-48.42	-42.67	-4.66	-1.09	-13.00	-35.42
214.30	-55.86	-52.56	-2.10	-1.20	-13.00	-42.86
551.86	-53.23	-50.04	-1.24	-1.95	-13.00	-40.23
1413.00	-43.13	-47.96	8.08	-3.25	-13.00	-30.13

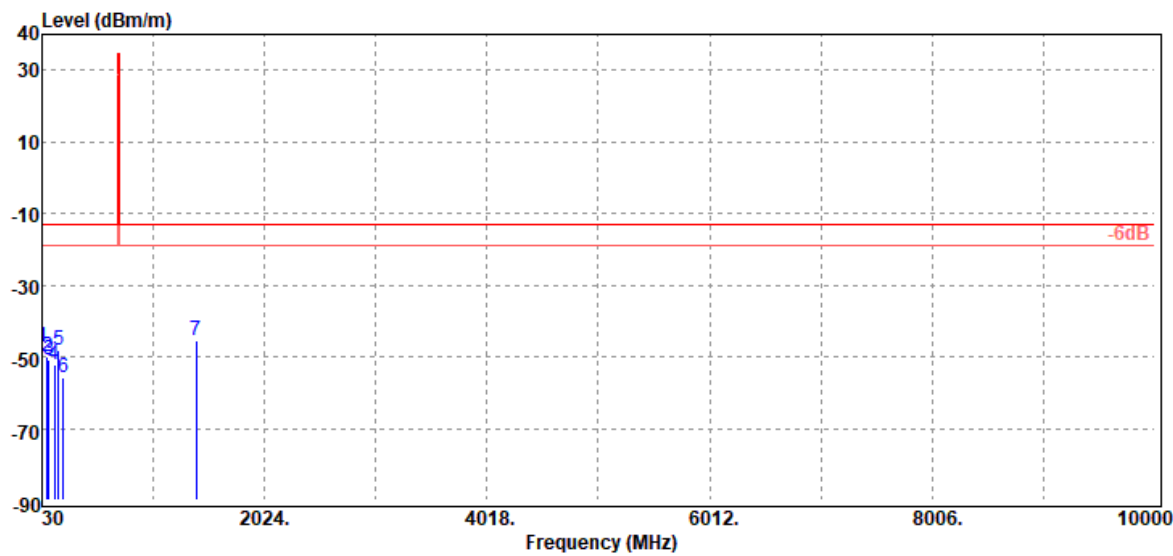
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Project Number : T190327W11
Operation Band :LTE B17 5 QPSK 1.24
Fundamental Frequency :706.5 MHz
Operation Mode :Tx CH Low
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.47	-16.92	-30.10	-0.45	-13.00	-34.47
73.65	-50.09	-40.29	-9.10	-0.70	-13.00	-37.09
88.20	-50.71	-42.78	-7.16	-0.77	-13.00	-37.71
143.49	-52.43	-43.45	-8.00	-0.98	-13.00	-39.43
180.35	-47.97	-42.51	-4.36	-1.10	-13.00	-34.97
219.15	-55.90	-52.66	-2.02	-1.22	-13.00	-42.90
1413.00	-45.56	-50.39	8.08	-3.25	-13.00	-32.56

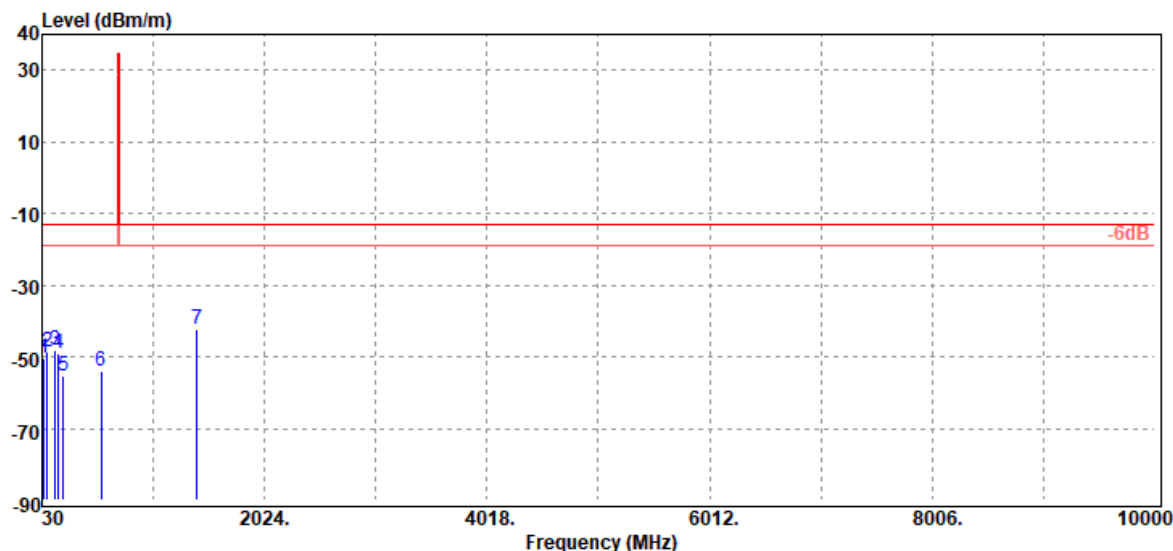
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Project Number : T190327W11
Operation Band :LTE B17 5 QPSK 1.24
Fundamental Frequency :710 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-50.55	-36.46	-13.53	-0.56	-13.00	-37.55
75.59	-48.69	-39	-8.98	-0.71	-13.00	-35.69
149.31	-48.22	-40.05	-7.17	-1.00	-13.00	-35.22
180.35	-49.04	-43.58	-4.36	-1.10	-13.00	-36.04
221.09	-55.48	-52.28	-1.98	-1.22	-13.00	-42.48
556.71	-53.92	-50.63	-1.33	-1.96	-13.00	-40.92
1420.00	-42.36	-47.22	8.12	-3.26	-13.00	-29.36

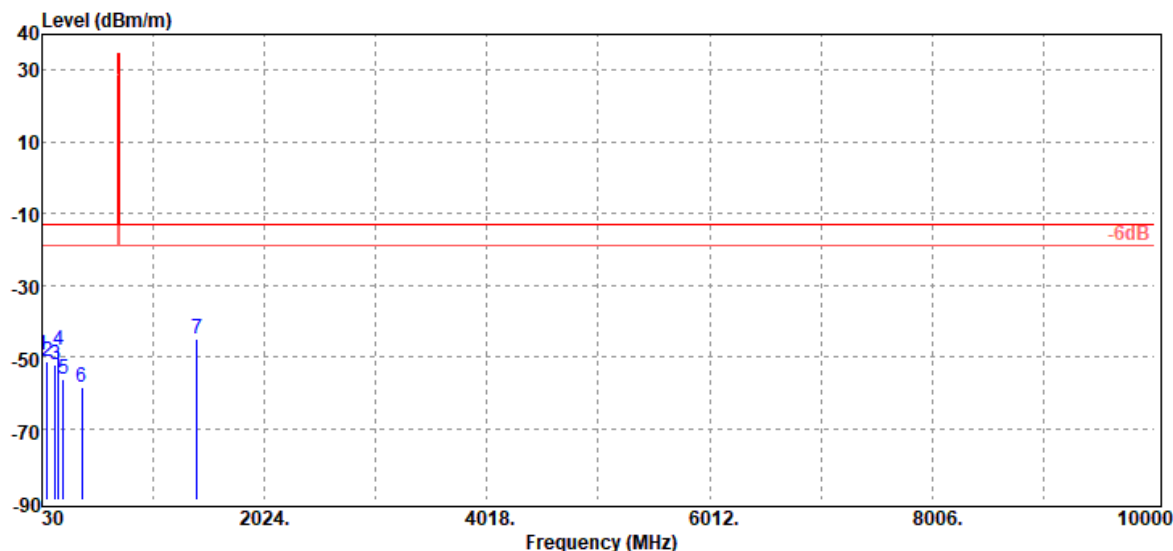
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Project Number : T190327W11
Operation Band :LTE B17 5 QPSK 1.24
Fundamental Frequency :710 MHz
Operation Mode :Tx CH Mid
EUT Pol. :E2 Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-49.43	-18.88	-30.10	-0.45	-13.00	-36.43
73.65	-51.32	-41.52	-9.10	-0.70	-13.00	-38.32
148.34	-52.28	-44.01	-7.27	-1.00	-13.00	-39.28
178.41	-48.06	-42.4	-4.56	-1.10	-13.00	-35.06
219.15	-56.09	-52.85	-2.02	-1.22	-13.00	-43.09
384.05	-58.71	-55.67	-1.42	-1.62	-13.00	-45.71
1420.00	-44.93	-49.79	8.12	-3.26	-13.00	-31.93

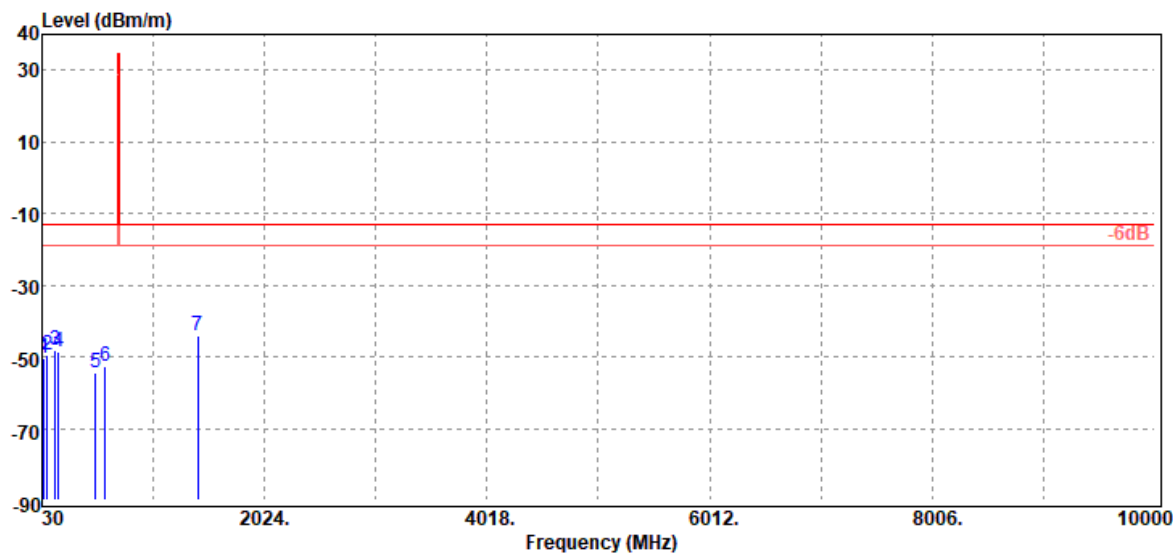
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Project Number : T190327W11
Operation Band :LTE B17 5 QPSK 1.24
Fundamental Frequency :713.5 MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :VERTICAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
47.46	-50.60	-36.51	-13.53	-0.56	-13.00	-37.60
73.65	-49.48	-39.68	-9.10	-0.70	-13.00	-36.48
149.31	-48.21	-40.04	-7.17	-1.00	-13.00	-35.21
177.44	-48.42	-42.67	-4.66	-1.09	-13.00	-35.42
507.24	-54.65	-50.95	-1.81	-1.89	-13.00	-41.65
597.45	-52.76	-49.85	-0.85	-2.06	-13.00	-39.76
1427.00	-44.07	-48.96	8.16	-3.27	-13.00	-31.07

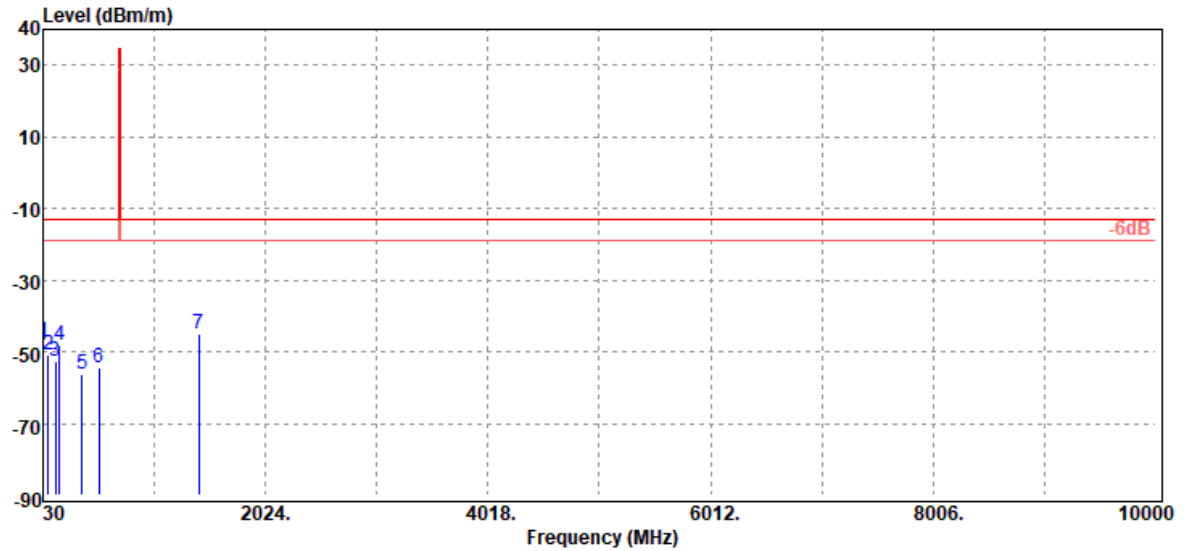
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Project Number : T190327W11
Operation Band :LTE B17 5 QPSK 1.24
Fundamental Frequency :713.5 MHz
Operation Mode :Tx CH High
EUT Pol. :H Plan

Test Date :2019-05-20
Temp./Humi. :21.2/61
Engineer :Jerry
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
30.00	-47.48	-16.93	-30.10	-0.45	-13.00	-34.48
73.65	-50.93	-41.13	-9.10	-0.70	-13.00	-37.93
143.49	-52.65	-43.67	-8.00	-0.98	-13.00	-39.65
178.41	-48.14	-42.48	-4.56	-1.10	-13.00	-35.14
376.29	-56.19	-52.93	-1.65	-1.61	-13.00	-43.19
532.46	-54.59	-51.37	-1.30	-1.92	-13.00	-41.59
1427.00	-45.20	-50.09	8.16	-3.27	-13.00	-32.20

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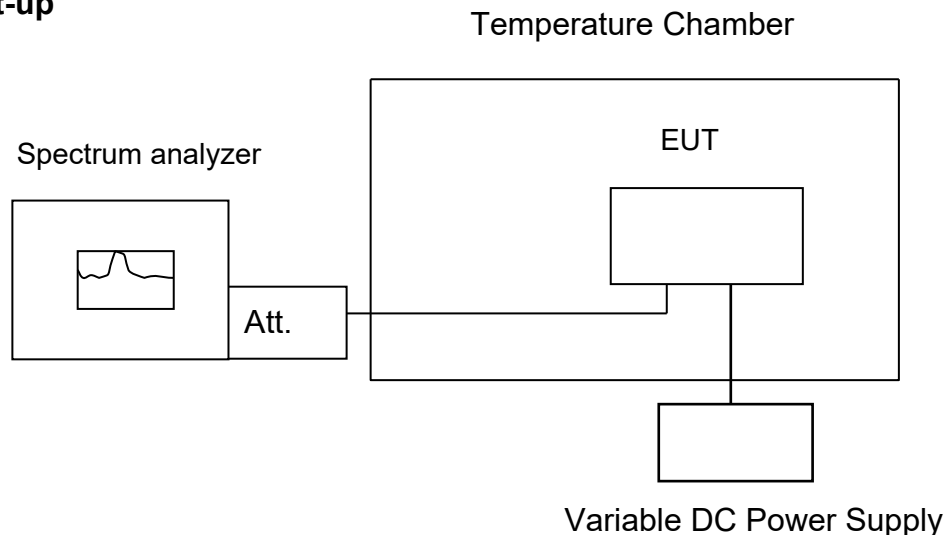
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10. FREQUENCY STABILITY MEASUREMENT

10.1. Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

10.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

10.3. Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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10.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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10.5. Measurement Result

WCDMA II Mid Channel 1880 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
48	20	1880.000002	2	4700
24	20	1880.000004	4	4700
12	20	1879.999998	-2	4700
8.2 (End point)	20	1880.000001	0	4700
FREQUENCY ERROR vs. Temp.				
24	50	1879.999997	-3	4700
24	40	1880.000002	2	4700
24	30	1880.000001	1	4700
24	20	1880.000001	0	4700
24	10	1879.999998	-2	4700
24	0	1879.999997	-3	4700
24	-10	1879.999999	-1	4700
24	-20	1879.999998	-2	4700
24	-30	1880.000001	1	4700

WCDMA V Mid Channel 836.6 MHz				
Limit: +/- 2.5 ppm				
Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit (Hz)
FREQUENCY ERROR vs. VOLTAGE				
48	20	836.5999989	-1	2091
24	20	836.5999977	-2	2091
12	20	836.5999995	-1	2091
8.2 (End point)	20	836.6000028	3	2091
FREQUENCY ERROR vs. Temp.				
24	50	836.599997	-3	2091
24	40	836.6000054	5	2091
24	30	836.6000043	4	2091
24	20	836.6000018	2	2091
24	10	836.6000025	2	2091
24	0	836.6000037	4	2091
24	-10	836.5999978	-2	2091
24	-20	836.5999985	-2	2091
24	-30	836.6000018	2	2091

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Reference Freq.: LTE B2 Mid Channel 1880 MHz 20M QPSK CH 18900				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
48	25	1880.000001	1	4700
24	25	1880.000006	6	4700
12	25	1879.999997	-3	4700
8.2 (End Point)	25	1880.000005	5	4700
Freq. ERROR vs. Temp.				
24	-30	1879.999999	-1	4700
24	-20	1879.999995	-5	4700
24	-10	1880.000006	6	4700
24	0	1880.000000	0	4700
24	10	1879.999997	-3	4700
24	20	1880.000000	0	4700
24	30	1880.000004	4	4700
24	40	1879.999996	-4	4700
24	50	1880.000001	1	4700

Reference Freq.: LTE B4 Mid Channel 1732.5 MHz 20M QPSK CH 20175				
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
48	25	1732.499995	-5	4331
24	25	1732.500009	9	4331
12	25	1732.500006	6	4331
8.2 (End Point)	25	1732.500000	0	4331
Freq. ERROR vs. Temp.				
24	-30	1732.500004	4	4331
24	-20	1732.499997	-3	4331
24	-10	1732.500005	5	4331
24	0	1732.499995	-5	4331
24	10	1732.500004	4	4331
24	20	1732.500002	2	4331
24	30	1732.499995	-5	4331
24	40	1732.500004	4	4331
24	50	1732.500003	3	4331

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Reference Freq.:		LTE B5 Mid Channel		836.5	MHz 10M QPSK CH 20525
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
48	25	836.500005	5	2091	
24	25	836.500006	6	2091	
12	25	836.500006	6	2091	
8.2 (End Point)	25	836.500008	8	2091	
Freq. ERROR vs. Temp.					
24	-30	836.500002	2	2091	
24	-20	836.500007	7	2091	
24	-10	836.499997	-3	2091	
24	0	836.500005	5	2091	
24	10	836.500001	1	2091	
24	20	836.500005	5	2091	
24	30	836.499997	-3	2091	
24	40	836.500004	4	2091	
24	50	836.500009	9	2091	

Reference Freq.:		LTE B13 Mid Channel		782	MHz 10M QPSK CH 23230
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
48	25	782.000007	7	1955	
24	25	782.000007	7	1955	
12	25	782.000000	0	1955	
8.2 (End Point)	25	782.000008	8	1955	
Freq. ERROR vs. Temp.					
24	-30	781.999999	-1	1955	
24	-20	781.999999	-1	1955	
24	-10	781.999998	-2	1955	
24	0	782.000009	9	1955	
24	10	782.000007	7	1955	
24	20	781.999997	-3	1955	
24	30	782.000007	7	1955	
24	40	781.999997	-3	1955	
24	50	782.000005	5	1955	

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Reference Freq.:		LTE B17 Mid Channel		710 MHz 10M QPSK CH 23790
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
48	25	710.000001	1	1775
24	25	710.000009	9	1775
12	25	709.999995	-5	1775
8.2 (End Point)	25	710.000006	6	1775
Freq. ERROR vs. Temp.				
24	-30	710.000008	8	1775
24	-20	710.000000	0	1775
24	-10	710.000008	8	1775
24	0	709.999996	-4	1775
24	10	710.000007	7	1775
24	20	709.999998	-2	1775
24	30	710.000002	2	1775
24	40	710.000004	4	1775
24	50	709.999997	-3	1775

Note: The power supply is rated 24Vdc.

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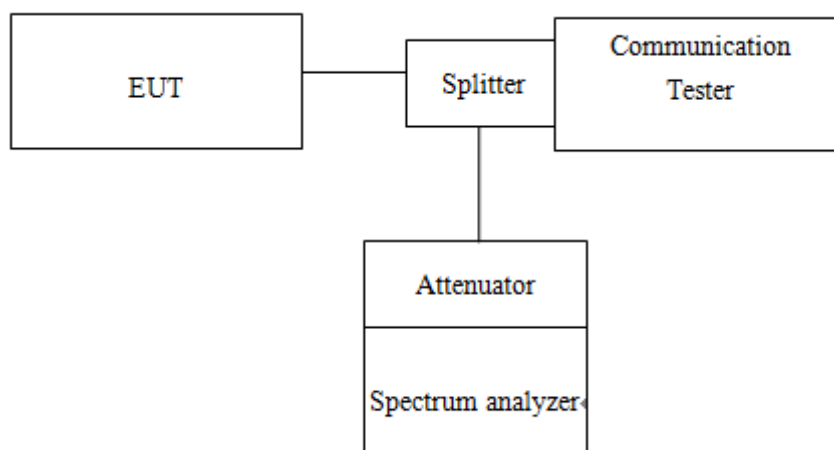
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11. PEAK TO AVERAGE RATIO

11.1. Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

11.2. Test SET-UP



11.3. Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal =1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

11.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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11.5. Measurement Result

Tabular Results:

Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		
		WCDMA II	HSDPA II	HSUPA II
1852.4	9262	2.95	4.06	4.26
1880	9400	2.97	3.89	4.24
1907.6	9538	2.96	4.37	4.28

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1850.7	18607	6.70	13	1851.5	18615	6.70	13
1880.0	18900	6.72	13	1880.0	18900	5.99	13
1909.3	19193	6.70	13	1908.5	19185	6.70	13

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1852.5	18625	6.58	13	1855.0	18650	6.56	13
1880.0	18900	6.41	13	1880.0	18900	6.58	13
1907.5	19175	6.74	13	1905.0	19150	6.51	13

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1857.5	18675	6.53	13	1860.0	18700	6.56	13
1880.0	18900	6.48	13	1880.0	18900	6.47	13
1902.5	19125	6.59	13	1900.0	19100	6.49	13

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1710.7	19957	6.87	13	1711.5	19965	6.74	13
1732.5	20175	6.15	13	1732.5	20175	6.39	13
1754.3	20393	6.68	13	1753.5	20385	6.85	13

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1712.5	19957	6.63	13	1715.0	20000	6.55	13
1732.5	20175	6.14	13	1732.5	20175	6.32	13
1752.5	20375	6.73	13	1750.0	20350	6.60	13

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
1717.5	20025	6.57	13	1720.0	20050	6.41	13
1732.5	20175	6.11	13	1732.5	20175	6.21	13
1747.5	20325	6.51	13	1745.0	20300	6.60	13

LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
824.7	20407	6.19	13	825.5	20415	5.96	13
836.5	20525	6.94	13	836.5	20525	7.00	13
848.3	20643	5.85	13	847.5	20635	5.91	13

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
826.5	20425	5.79	13	829.0	20450	6.08	13
836.5	20525	6.60	13	836.5	20525	6.79	13
846.5	20625	5.88	13	844.0	20600	5.45	13

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LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
779.5	23205	6.46	13	782.0	23230	6.46	13
782.0	23230	6.42	13				
784.5	23255	6.46	13				

LTE BAND 17							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Freq. (MHz)	CH	PAPR (dB)		Freq. (MHz)	CH	PAPR (dB)	
		16QAM	Limit			16QAM	Limit
706.5	23755	5.98	13	709.0	23780	6.34	13
710.0	23790	6.62	13	710.0	23790	6.44	13
713.5	23825	6.52	13	711.0	23800	6.45	13

Measurement Results:

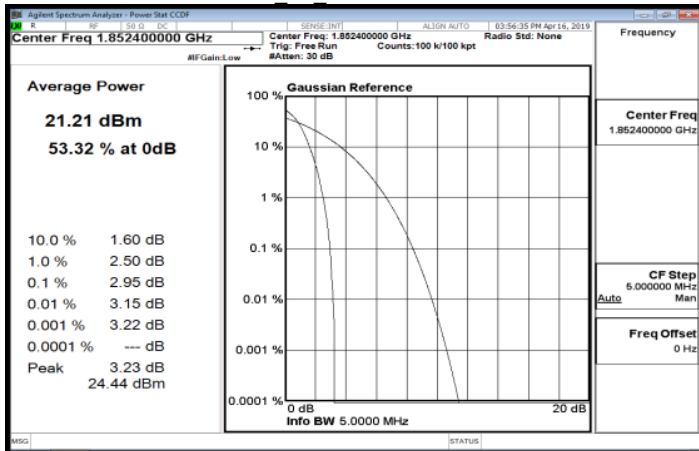
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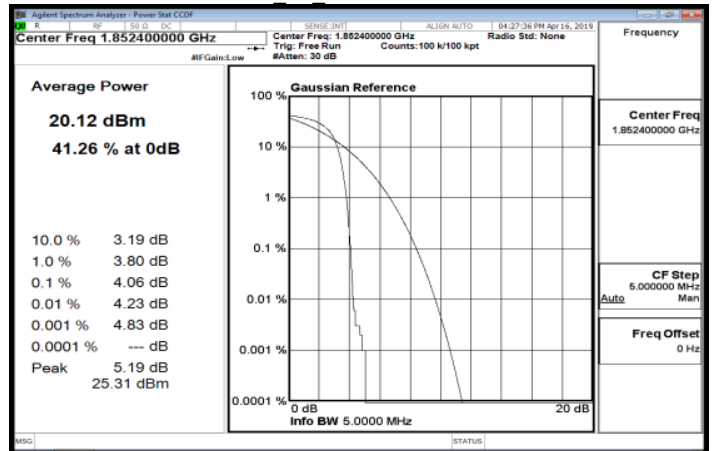
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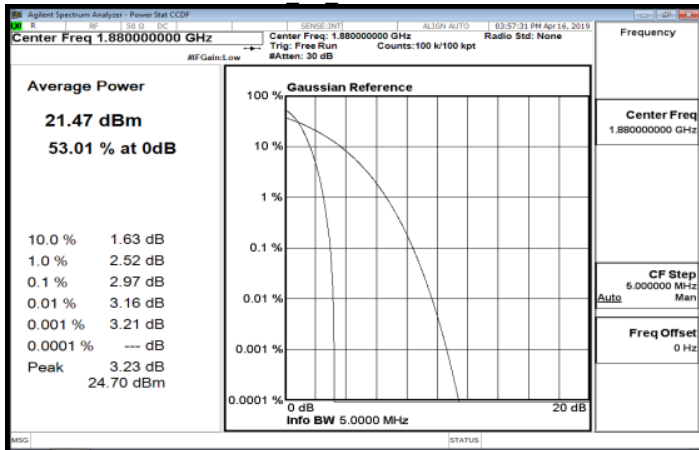
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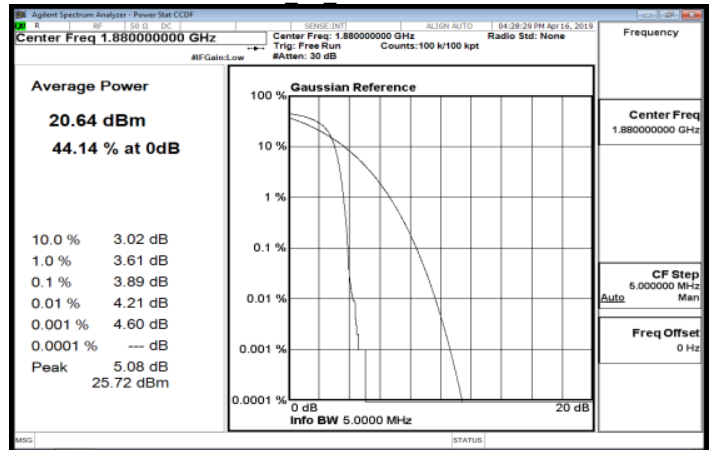
HSDPA B2 LowCH9262-1852.4



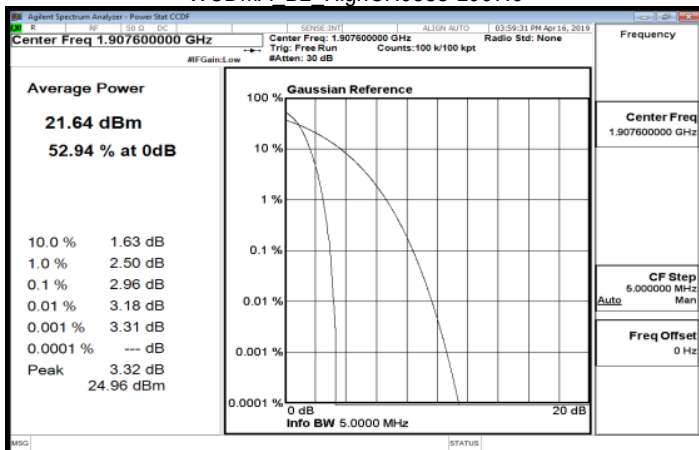
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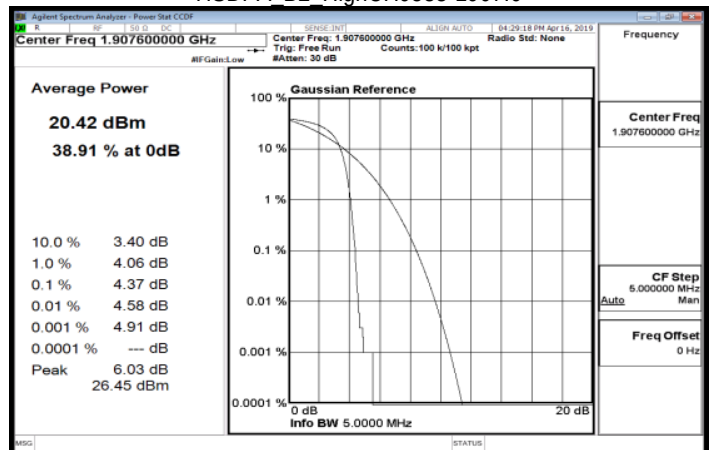
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WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6

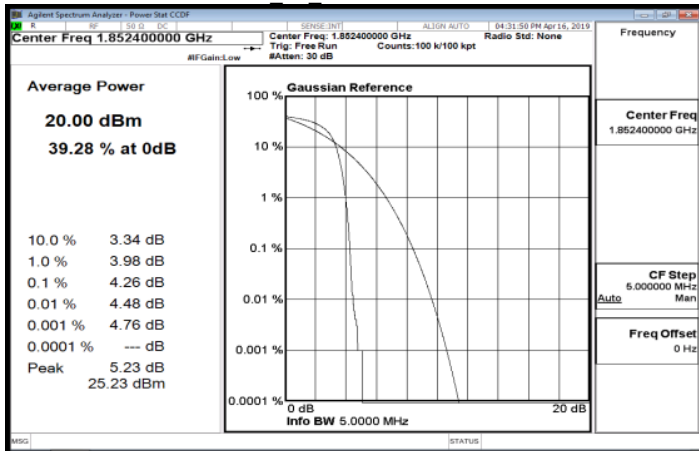


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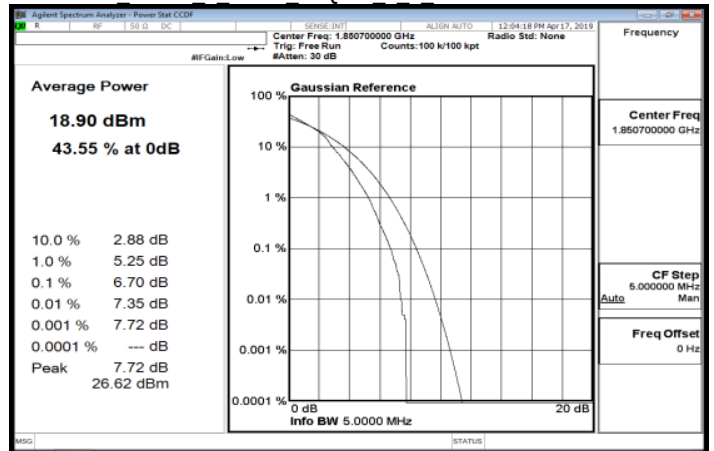
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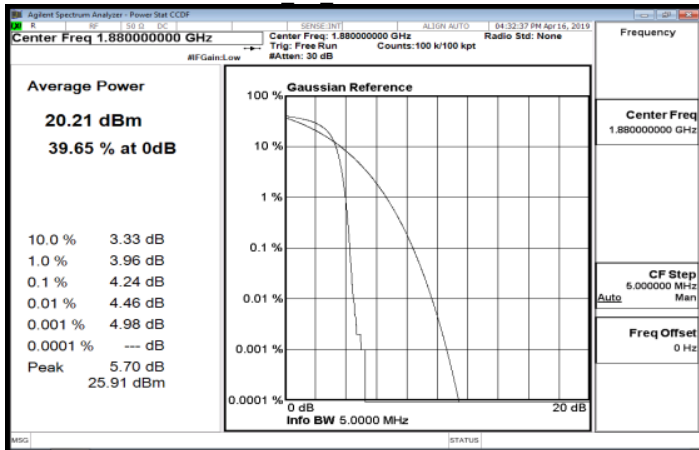
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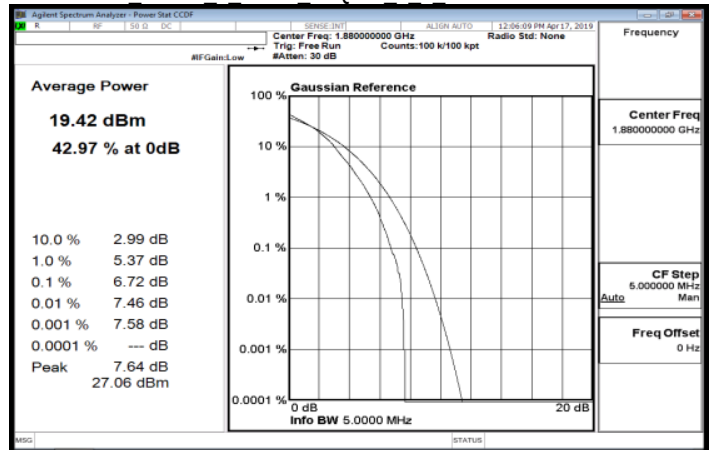
LTE Band2 1 4MHz 16QAM 6 0 LowCH18607-1850.7



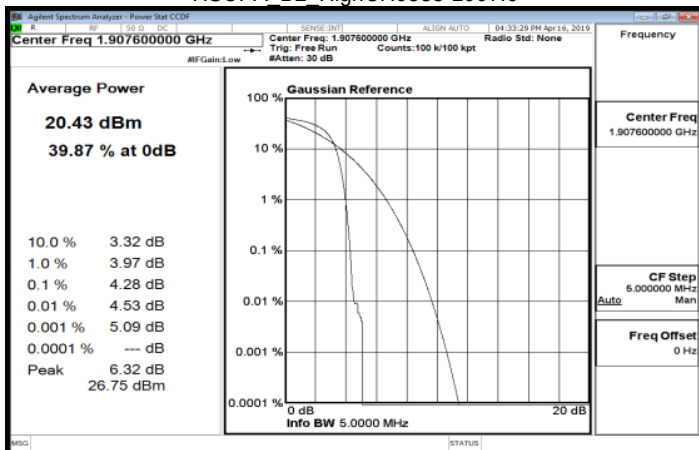
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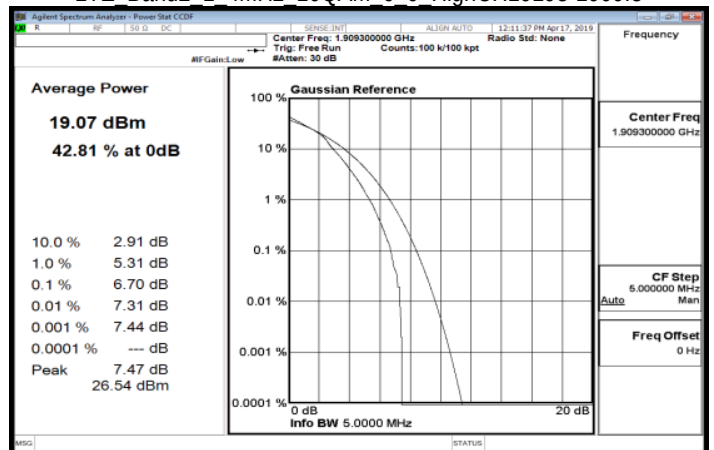
LTE Band2 1 4MHz 16QAM 6 0 MidCH18900-1880



HSUPA B2 HighCH9538-1907.6



LTE Band2 1 4MHz 16QAM 6 0 HighCH19193-1909.3

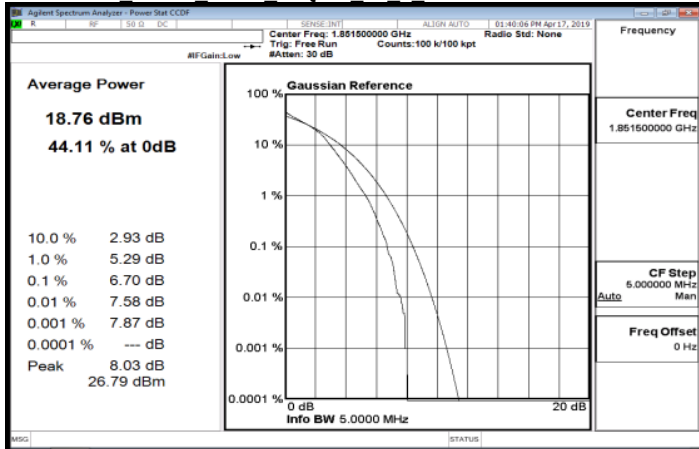


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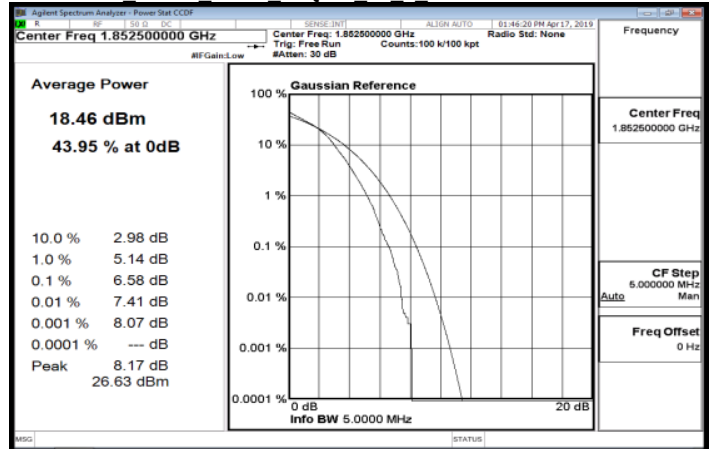
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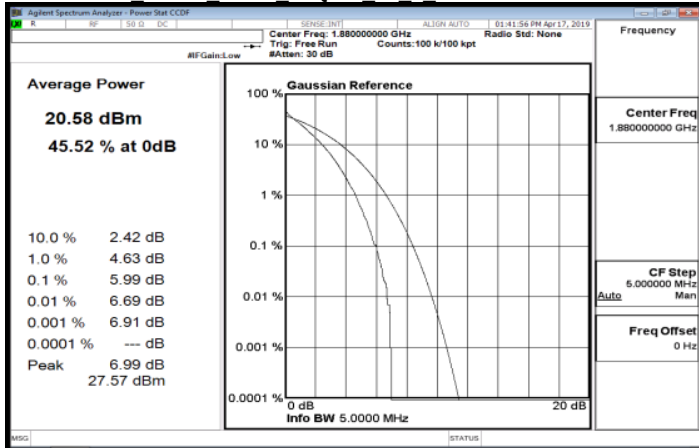
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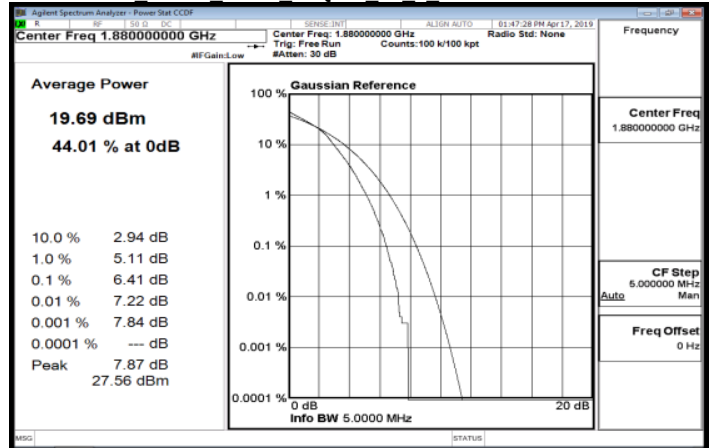
LTE Band2 5MHz 16QAM 25 0 LowCH18625-1852.5



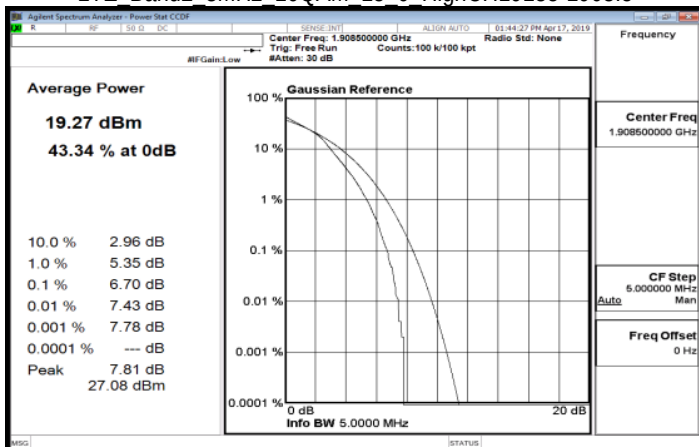
LTE Band2 3MHz 16QAM 15 0 MidCH18900-1880



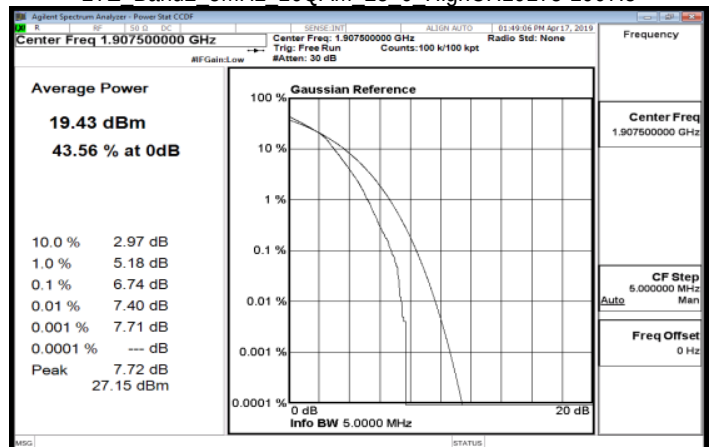
LTE Band2 5MHz 16QAM 25 0 MidCH18900-1880



LTE Band2 3MHz 16QAM 15 0 HighCH19185-1908.5



LTE Band2 5MHz 16QAM 25 0 HighCH19175-1907.5



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