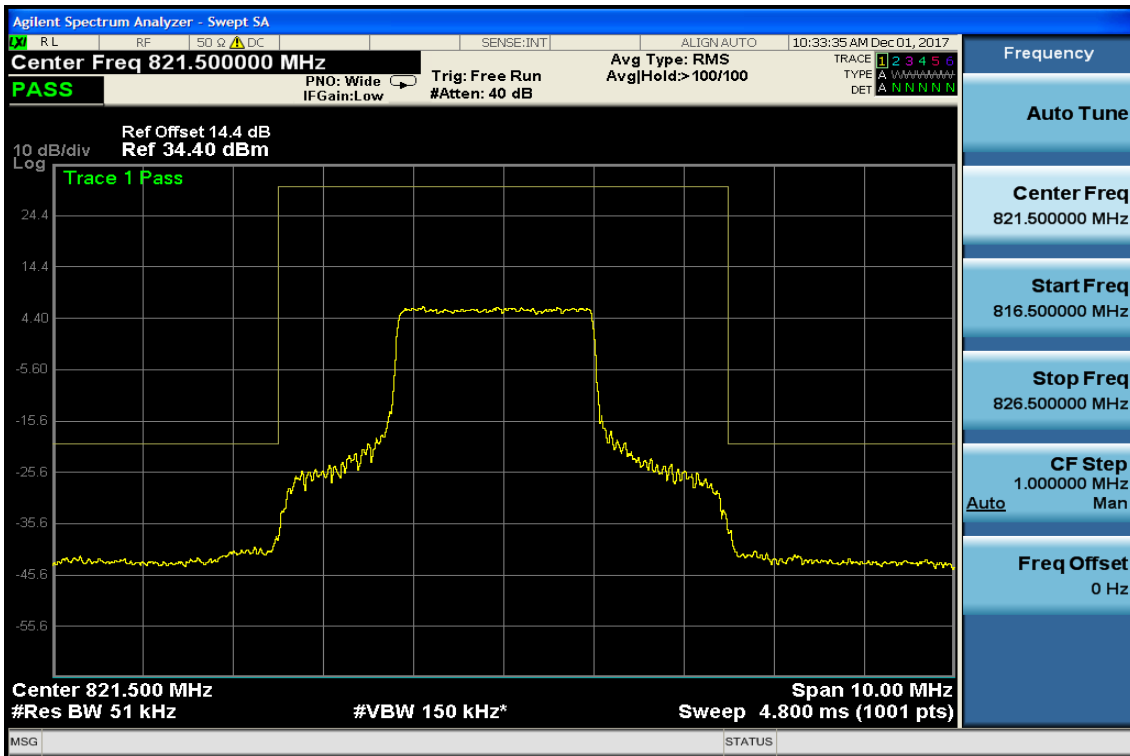
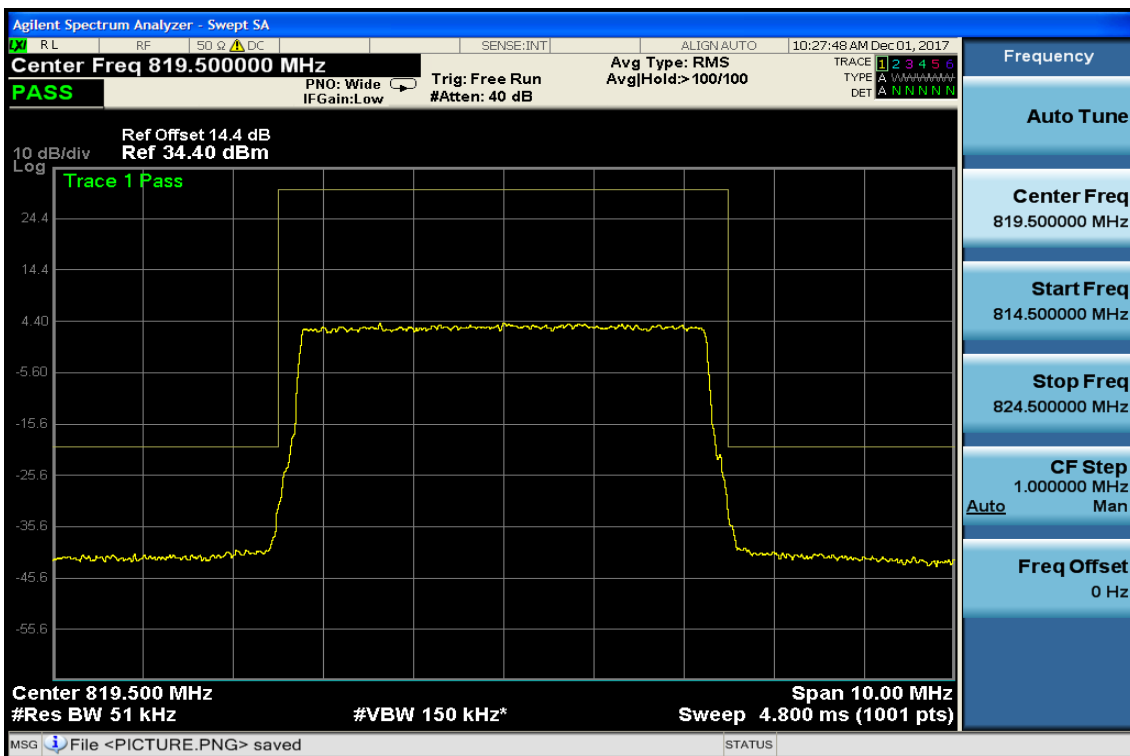


B18 QPSK 5M 12 6 23915 High



B18 QPSK 5M 25 0 23875 Low



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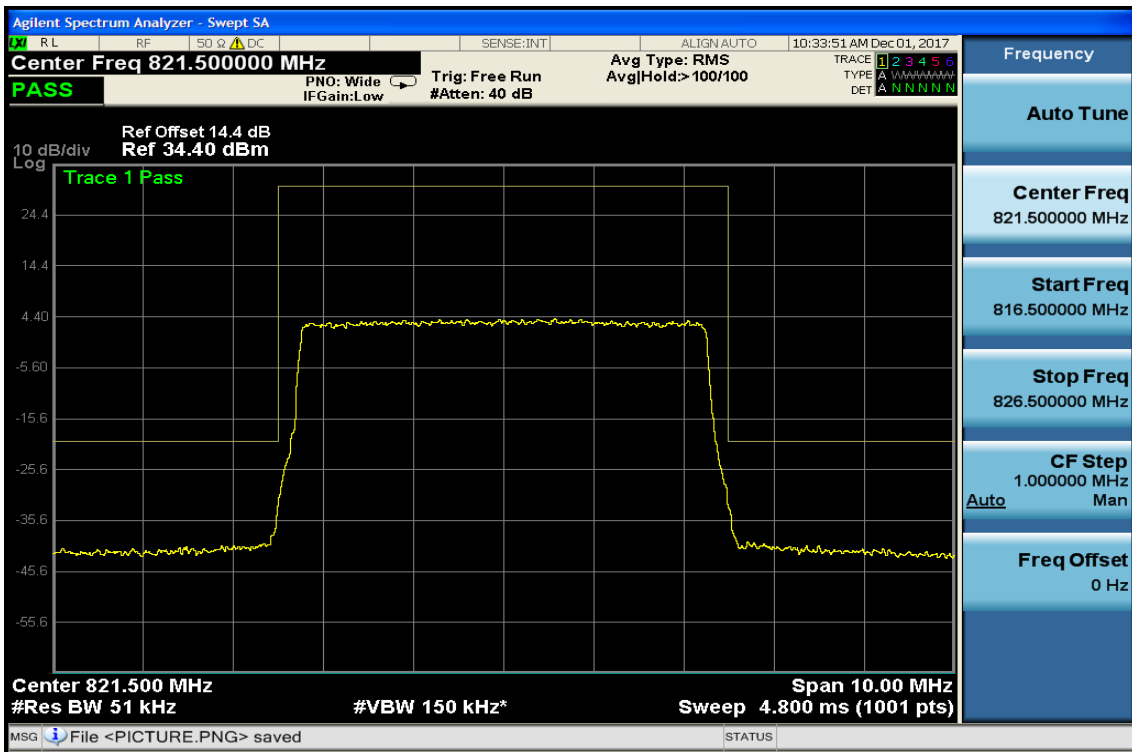
t (886-2) 2299-3279

f (886-2) 2298-0488

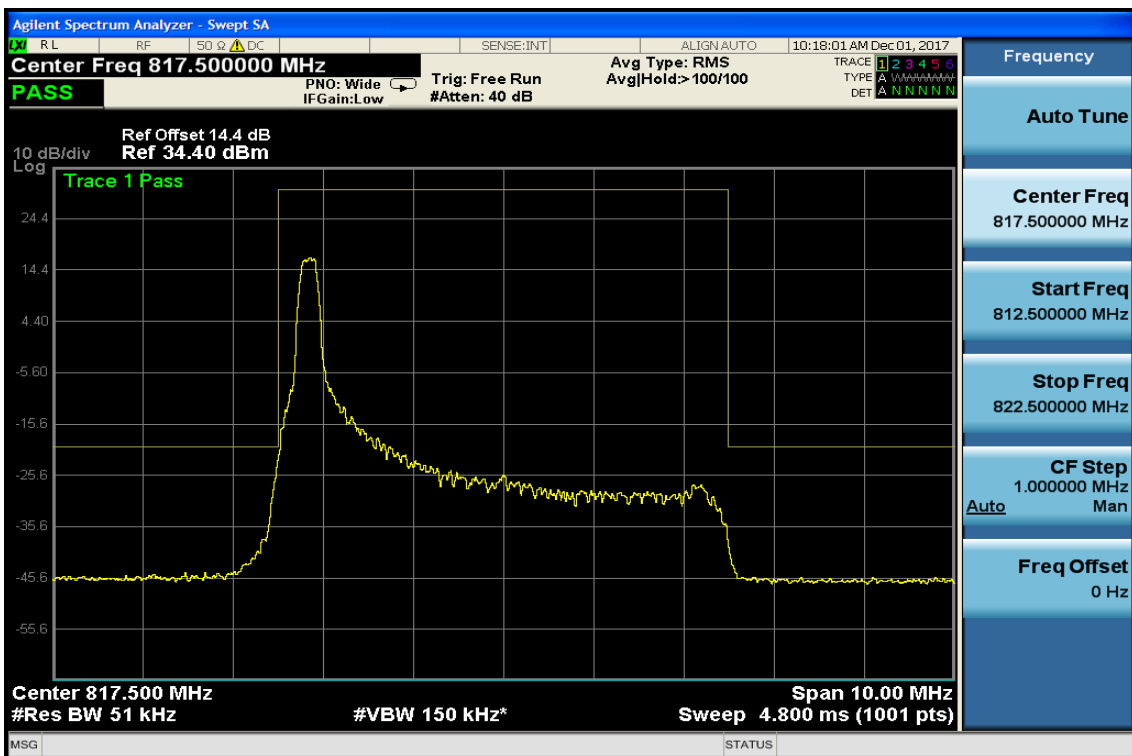
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B18 QPSK 5M 25 0 23915 High



B18 16QAM 5M 1 0 23875 Low



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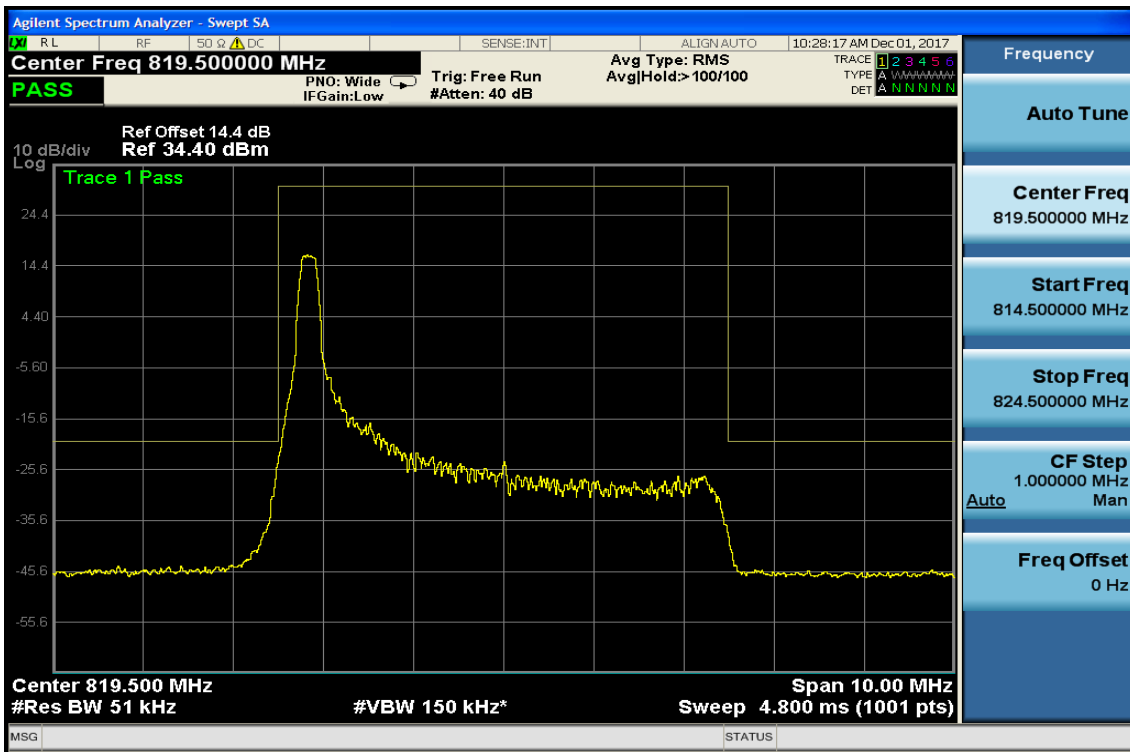
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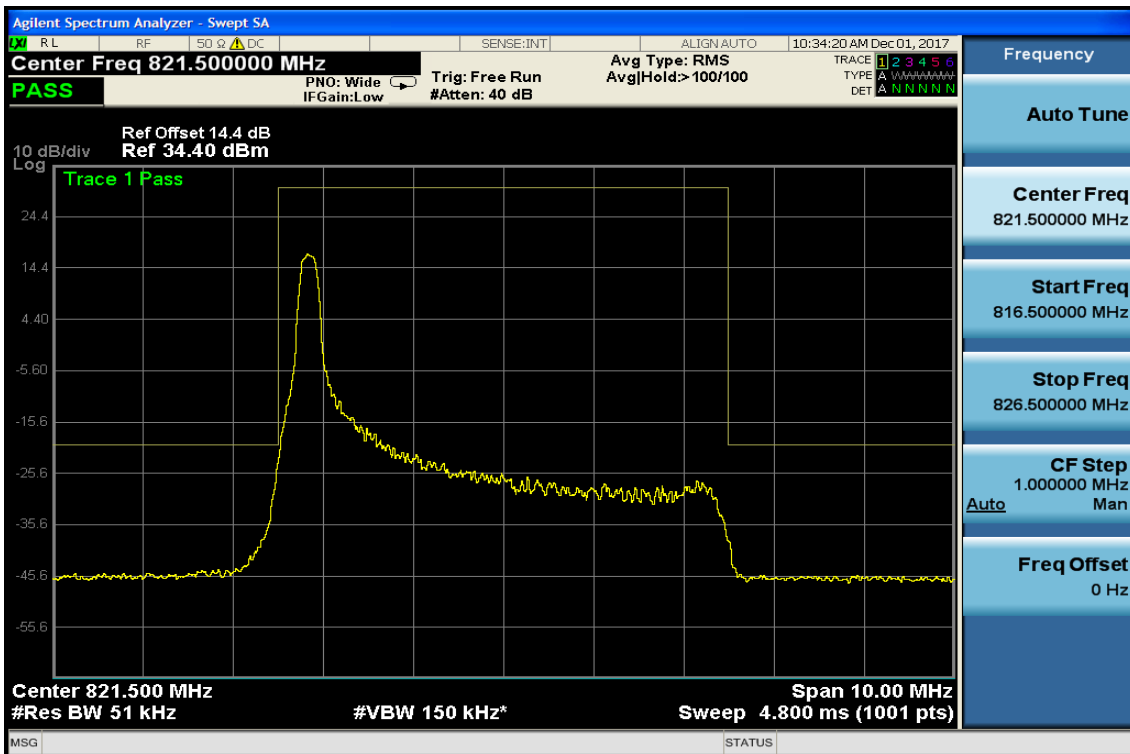
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B18 16QAM 5M 1 0 23895 Mid



B18 16QAM 5M 1 0 23915 High



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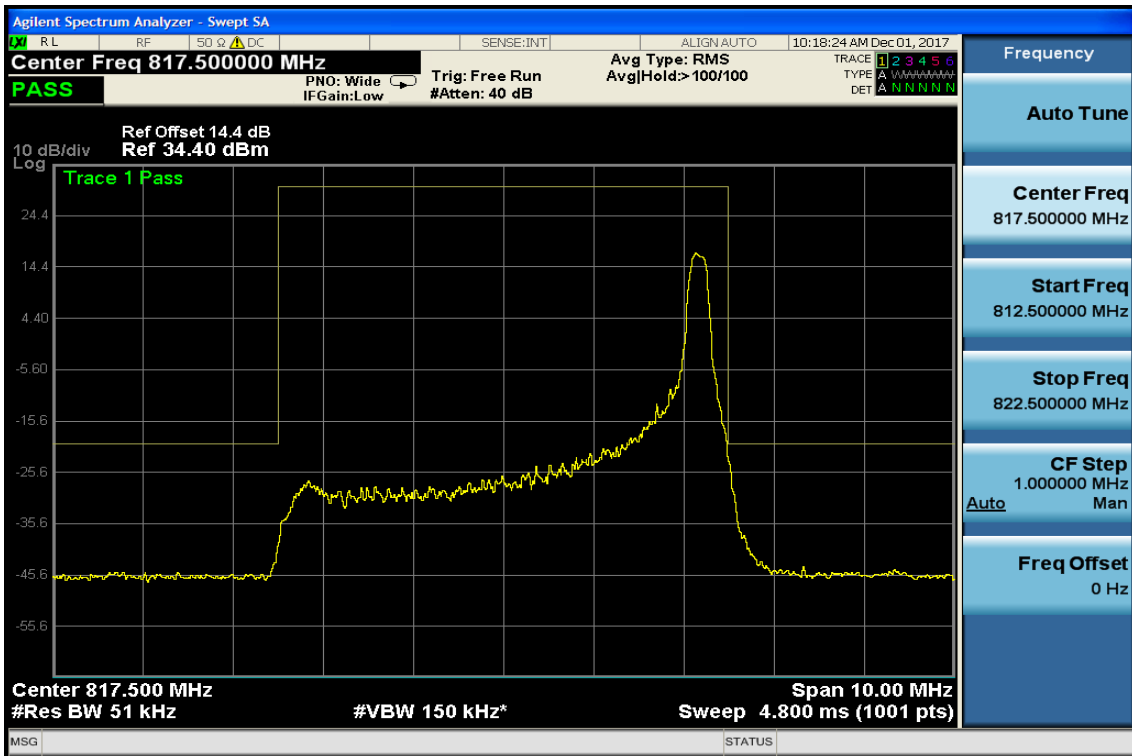
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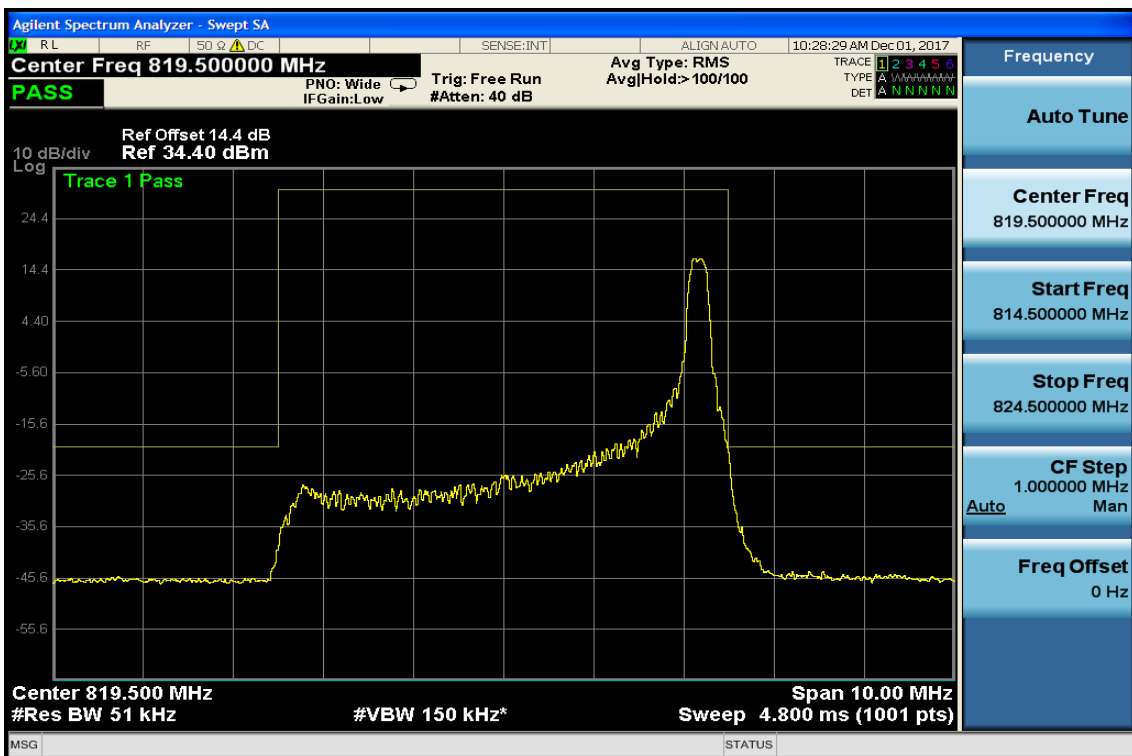
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B18 16QAM 5M 1 24 23875 Low



B18 16QAM 5M 1 24 23895 Mid



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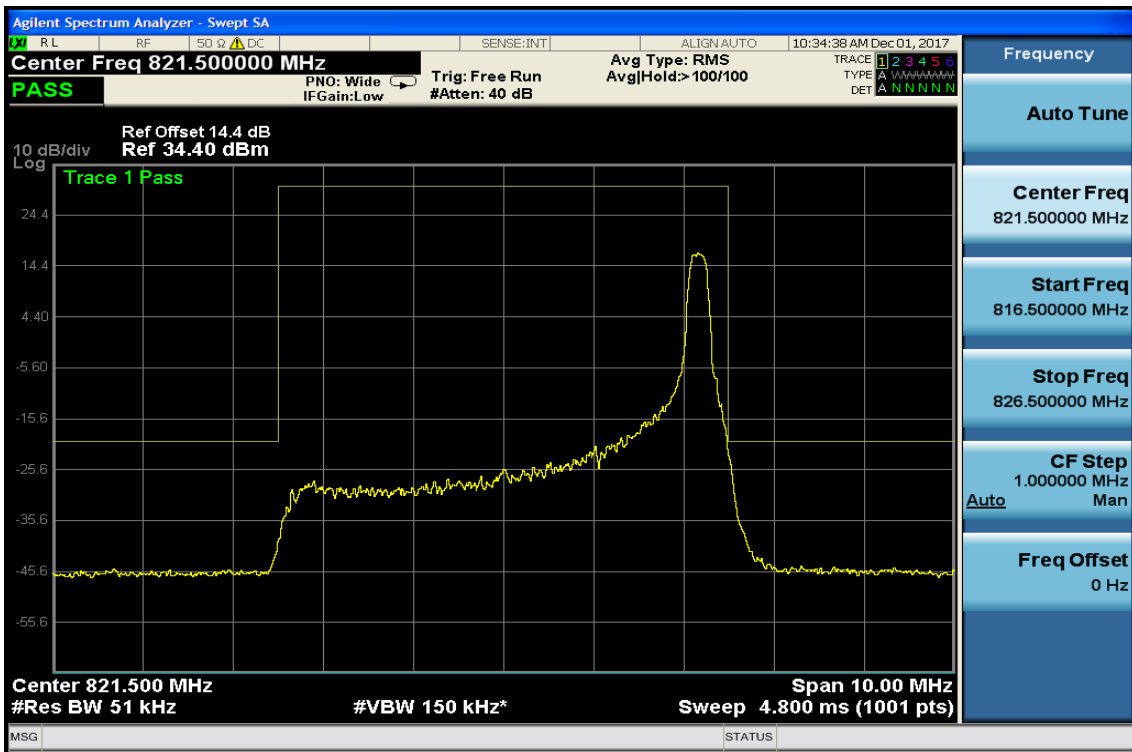
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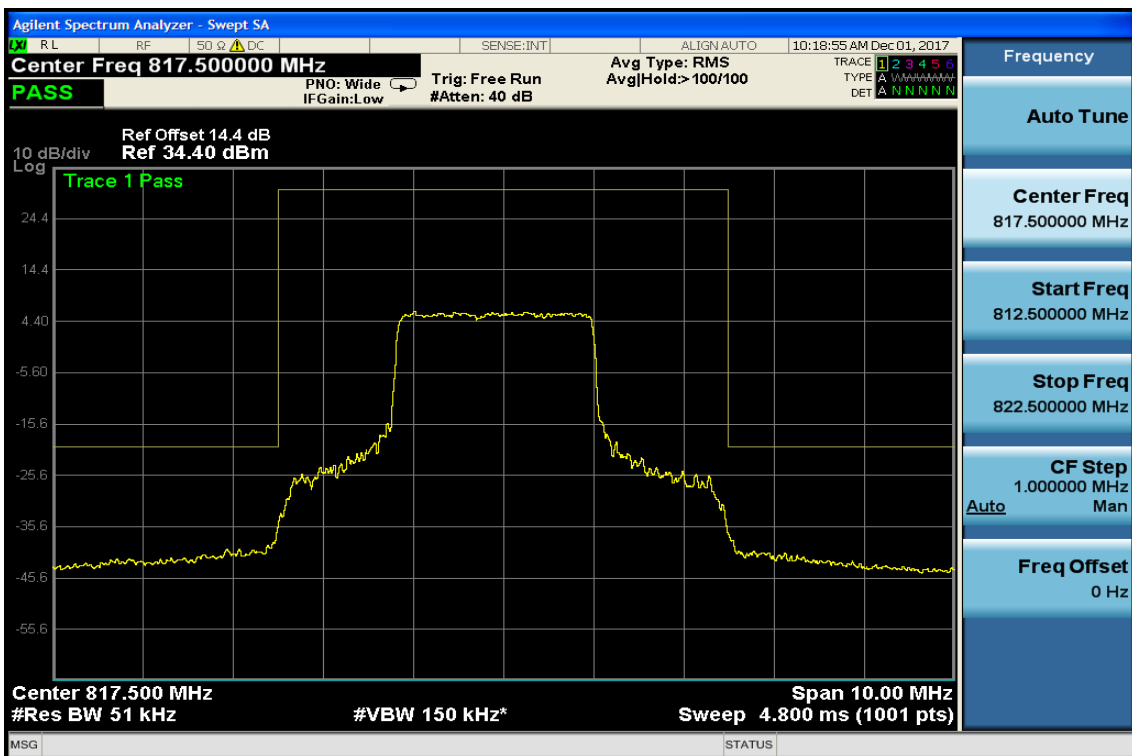
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B18 16QAM 5M 1 24 23915 High



B18 16QAM 5M 12 6 23875 Low



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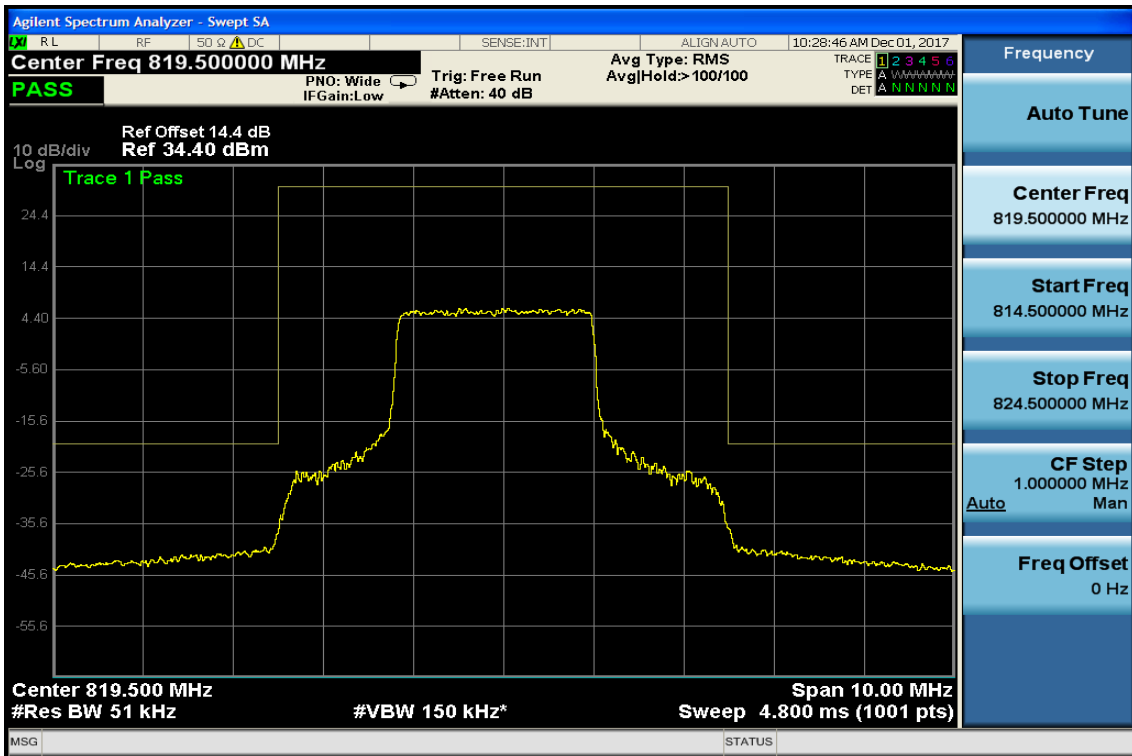
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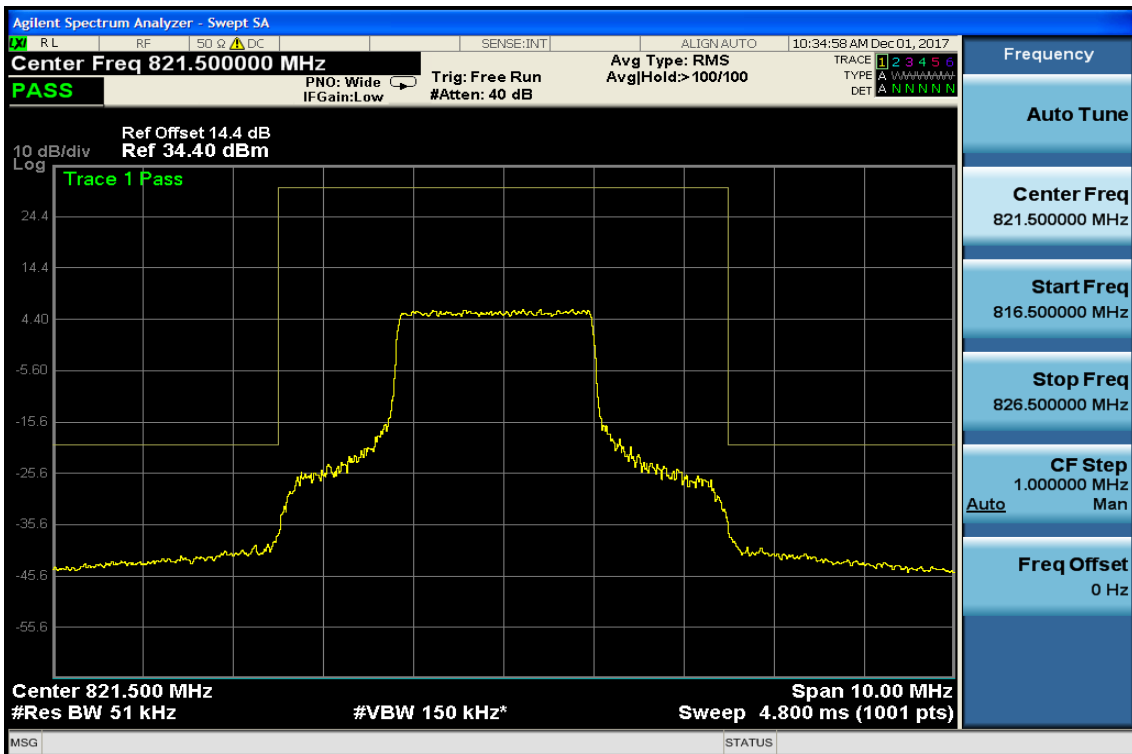
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B18 16QAM 5M 12 6 23895 Mid



B18 16QAM 5M 12 6 23915 High



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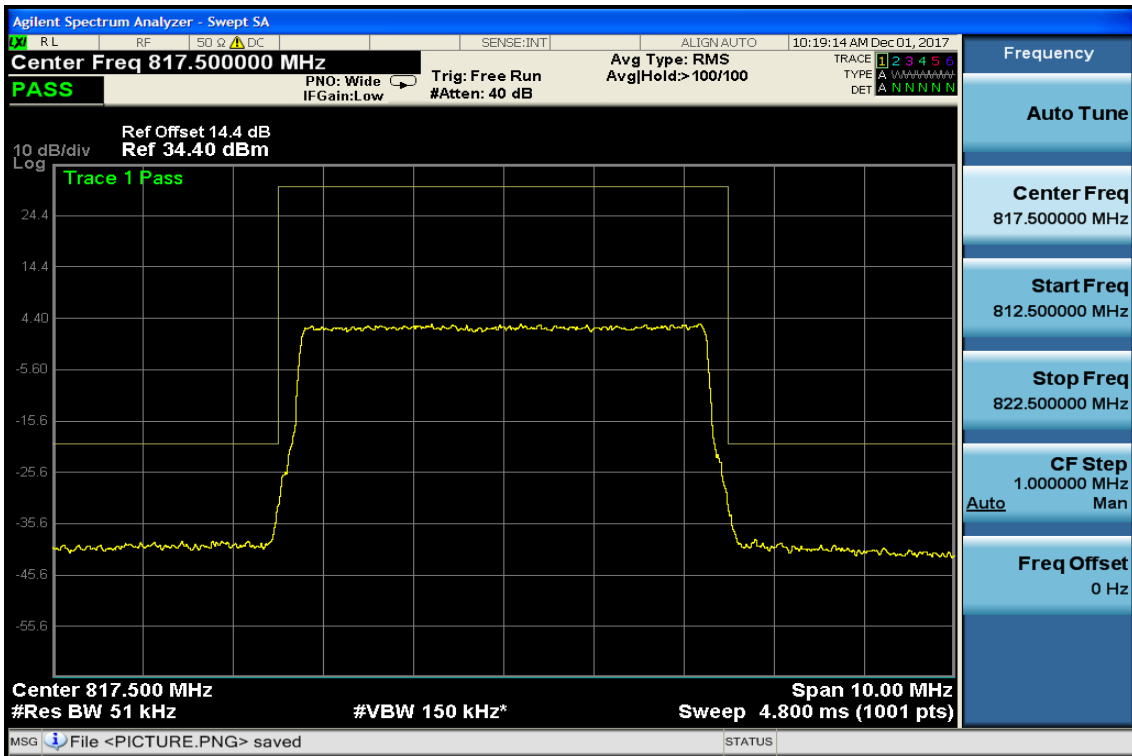
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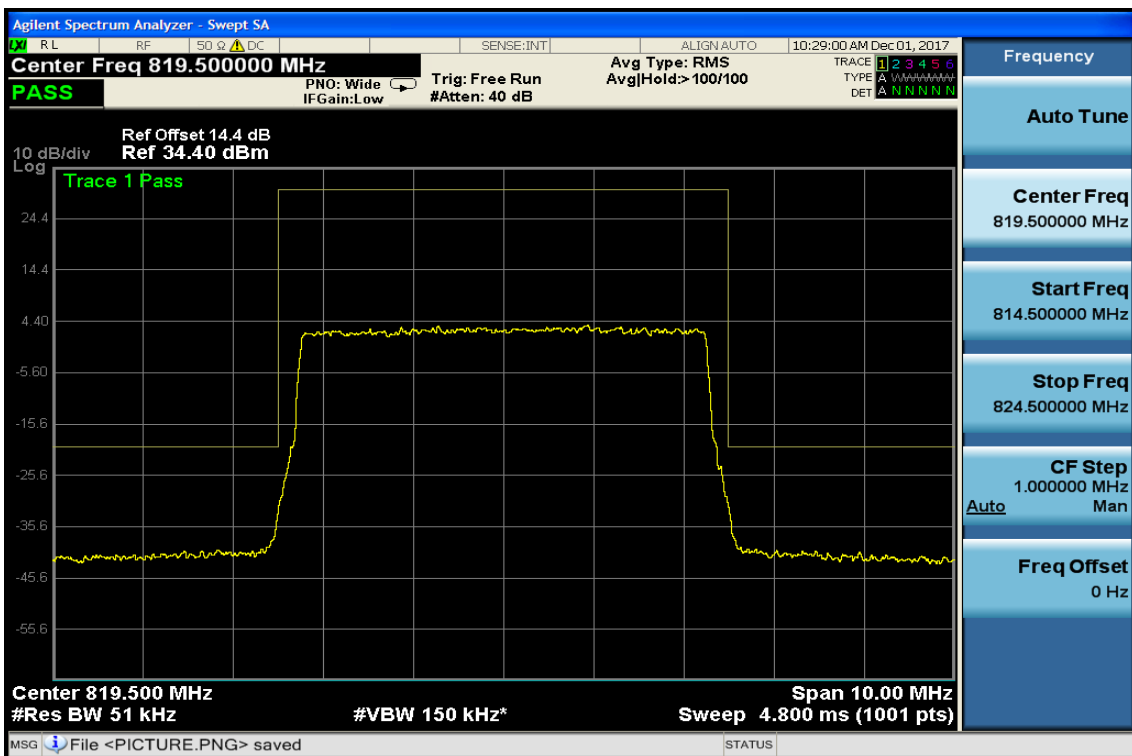
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B18 16QAM 5M 25 0 23875 Low



B18 16QAM 5M 25 0 23895 Mid



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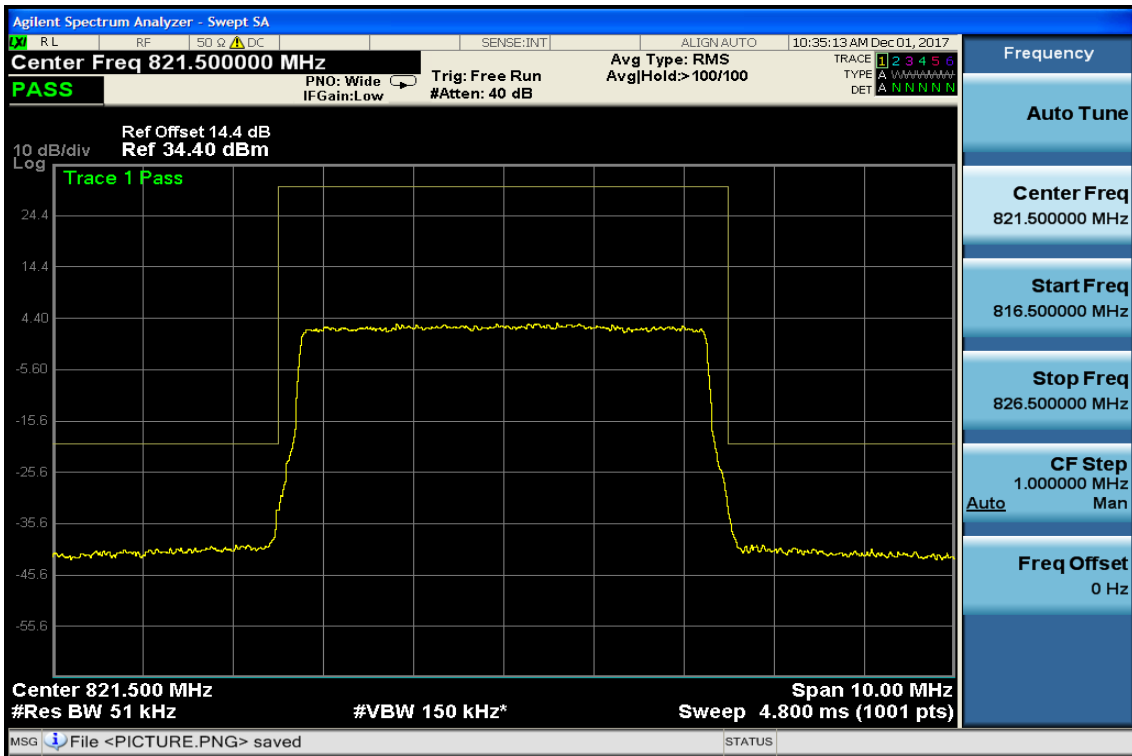
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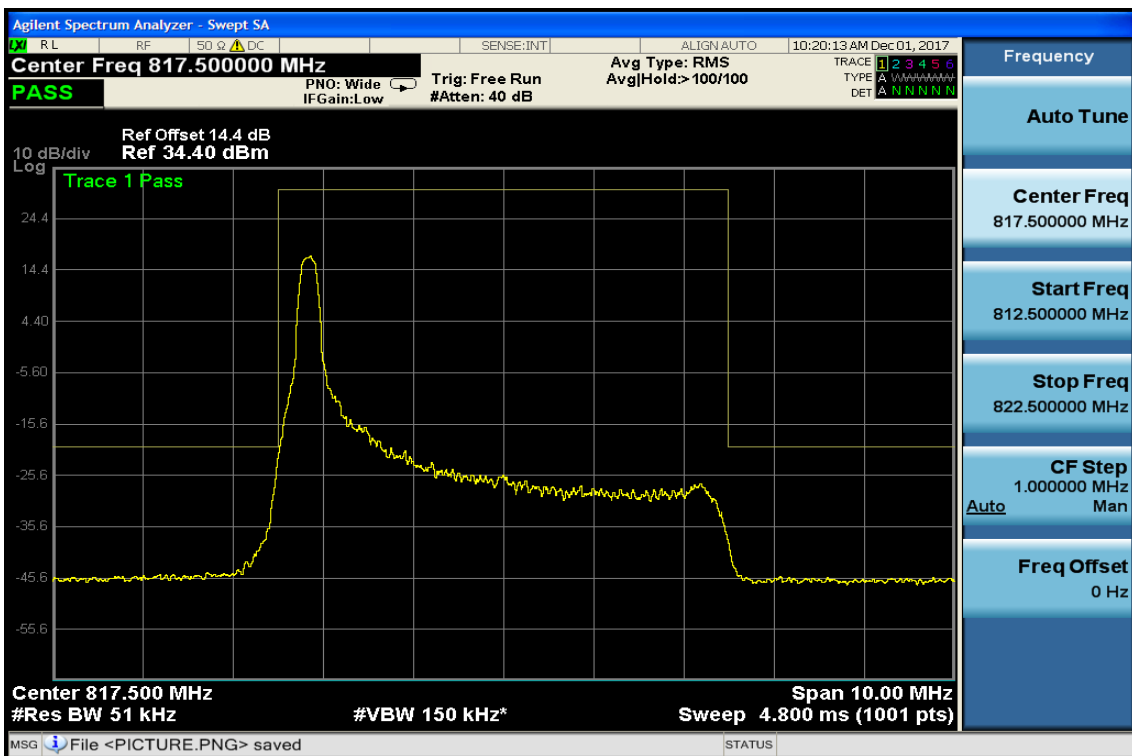
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B18 16QAM 5M 25 0 23915 High



B18 64QAM 5M 1 0 23875 Low



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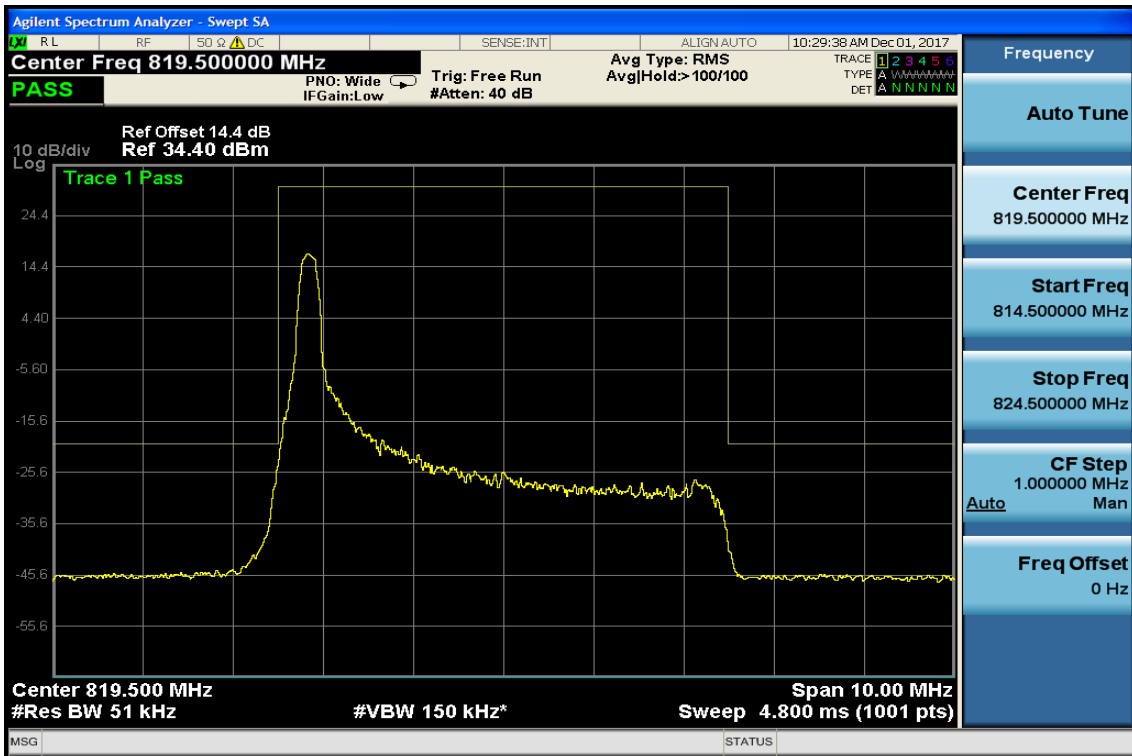
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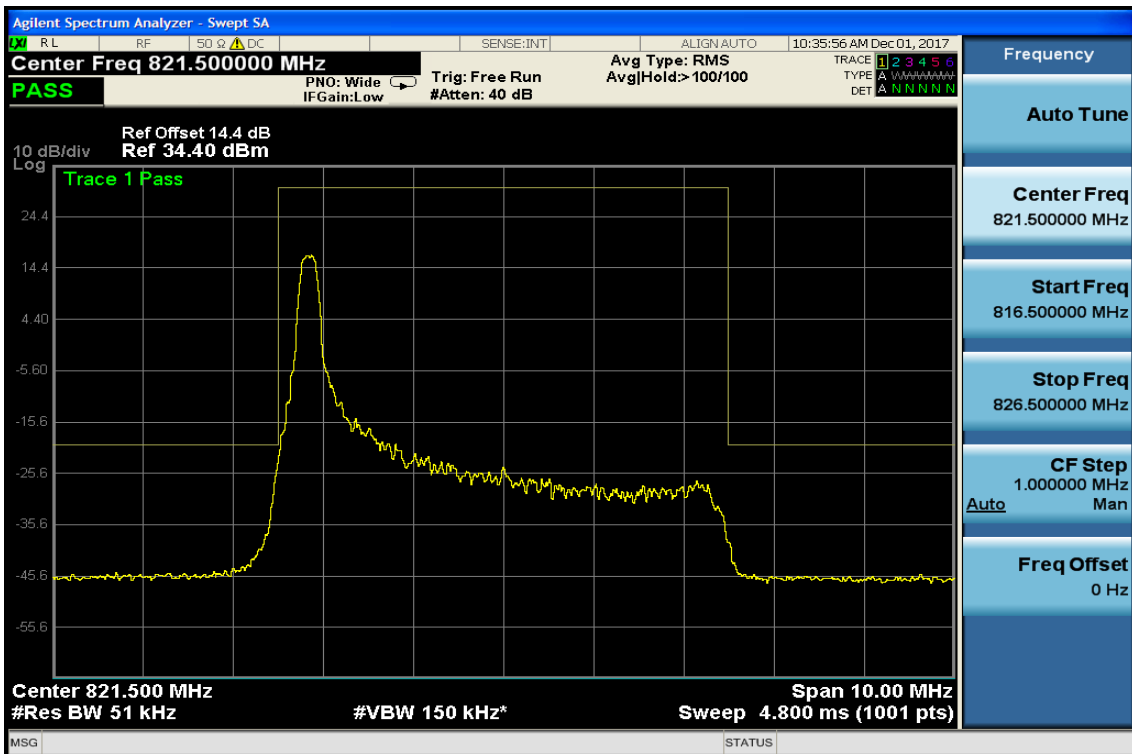
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B18 64QAM 5M 1 0 23895 Mid



B18 64QAM 5M 1 0 23915 High



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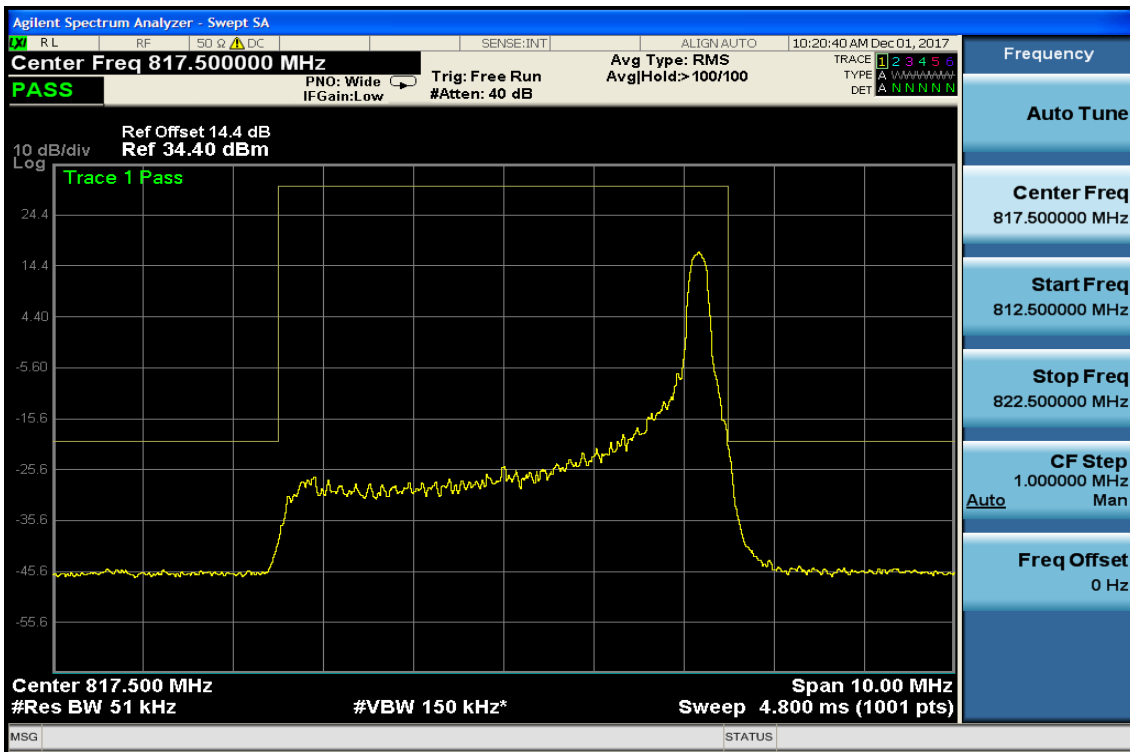
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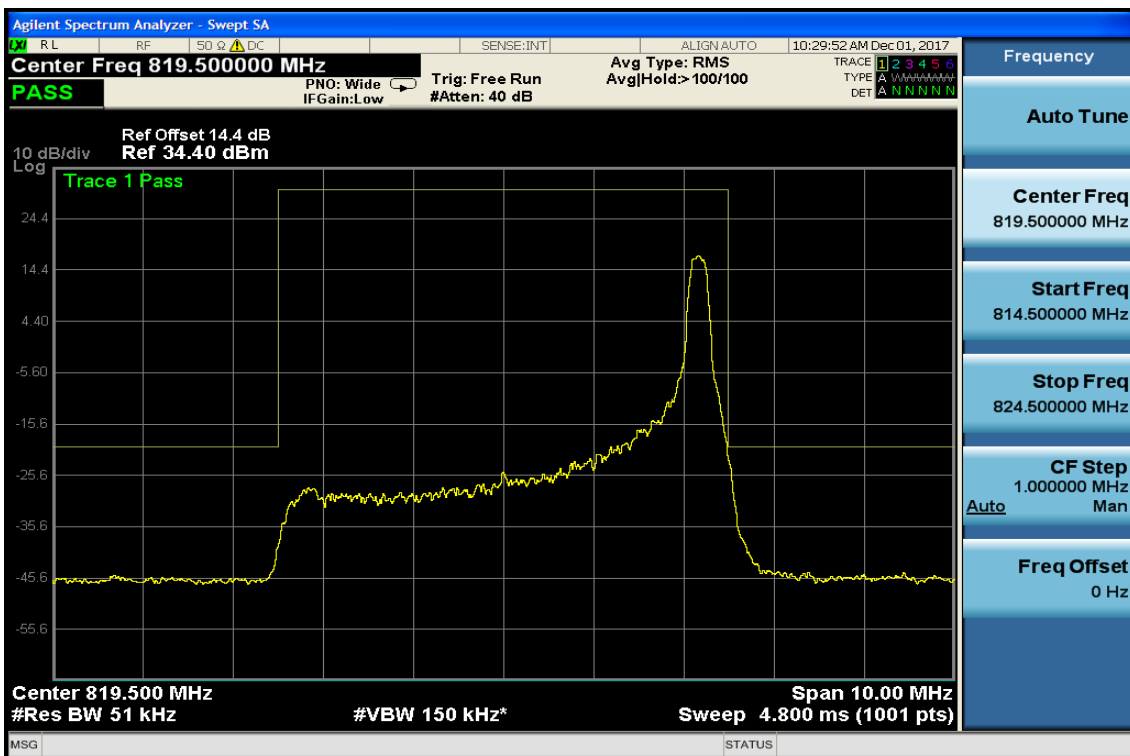
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B18 64QAM 5M 1 24 23875 Low



B18 64QAM 5M 1 24 23895 Mid



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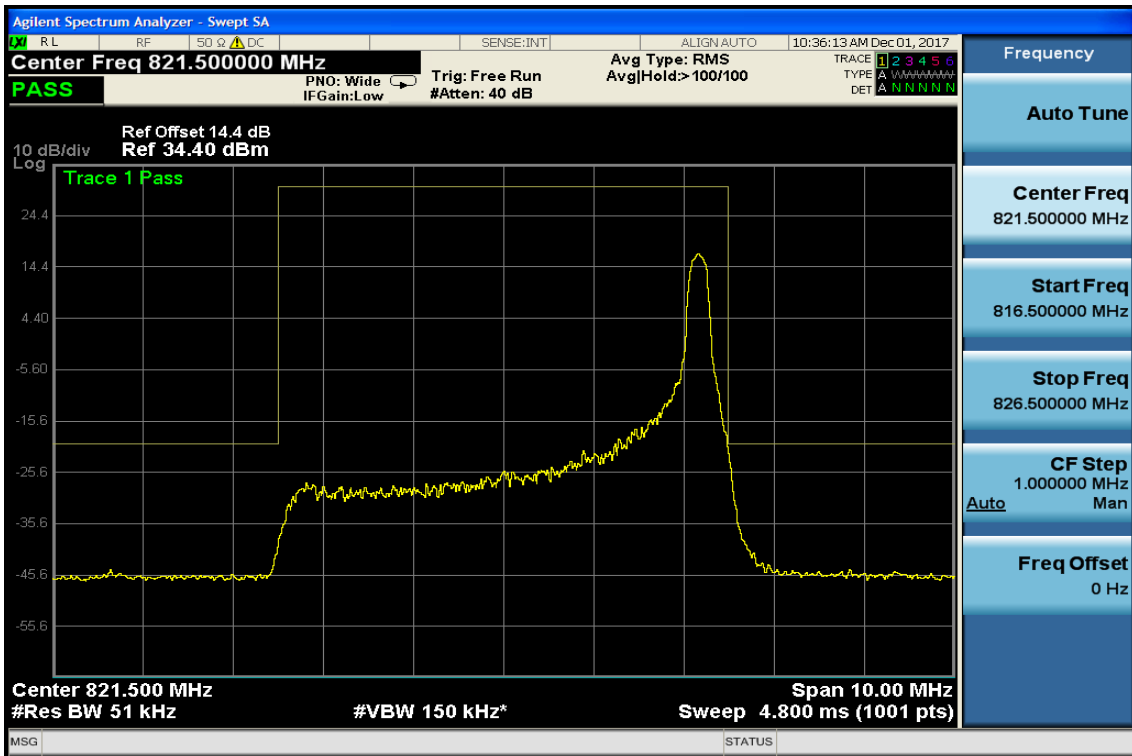
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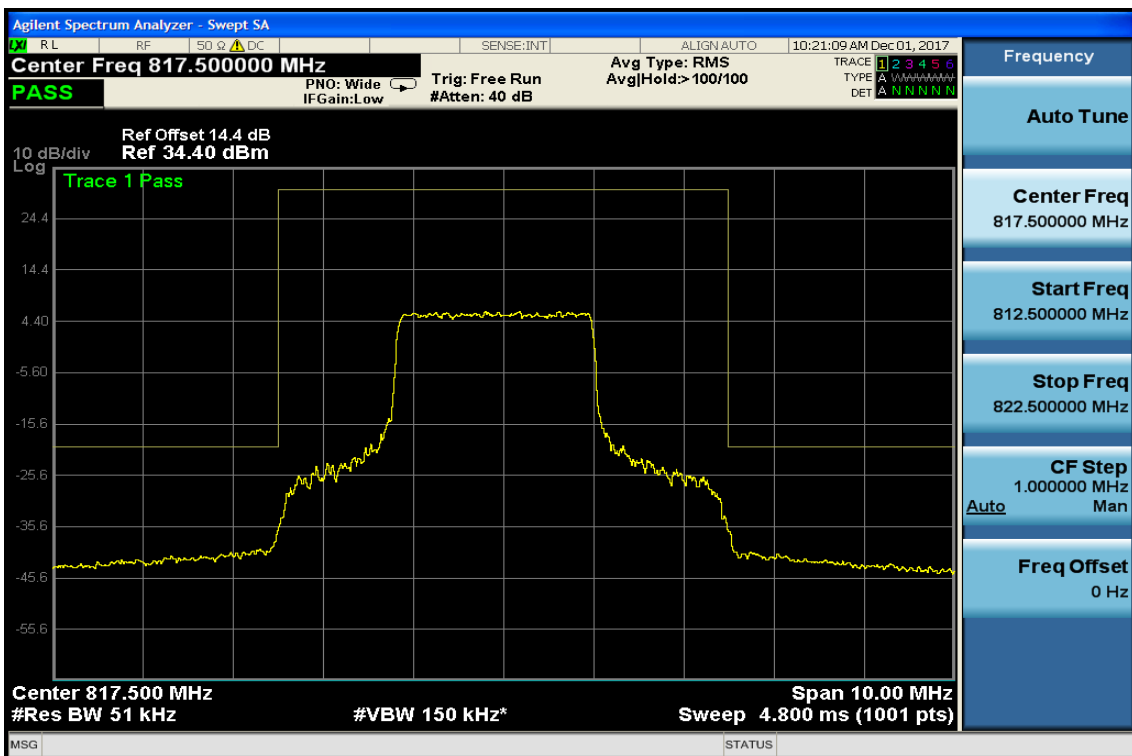
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B18 64QAM 5M 1 24 23915 High



B18 64QAM 5M 12 6 23875 Low



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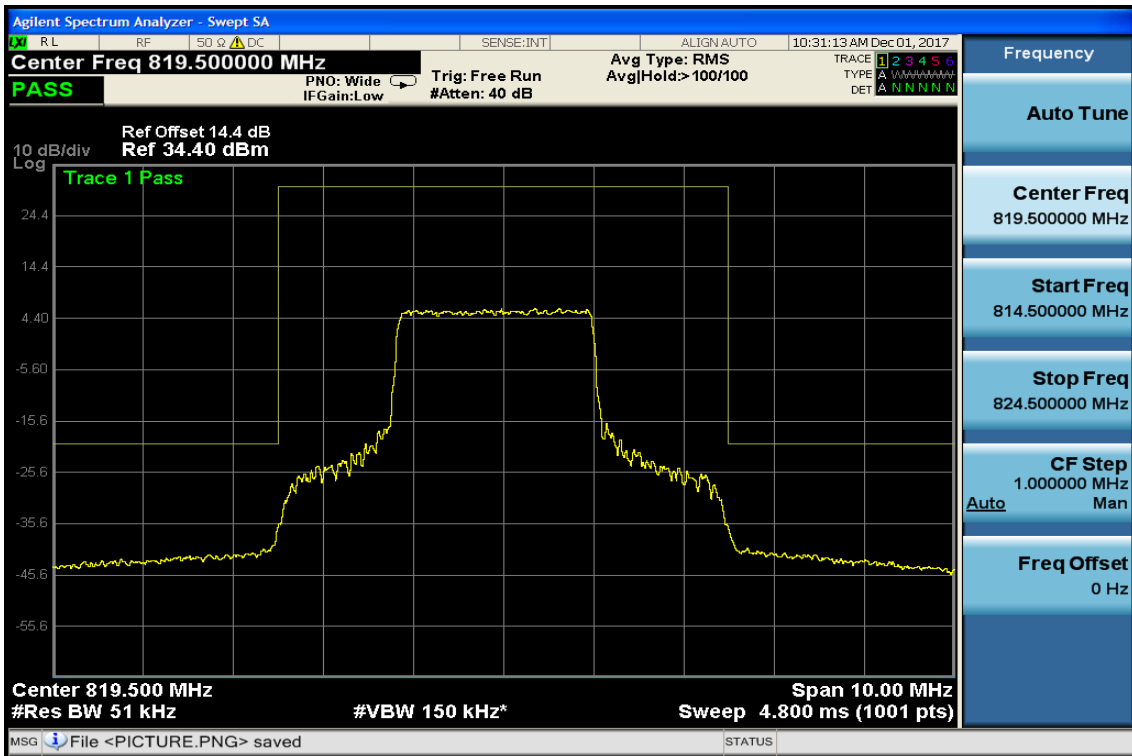
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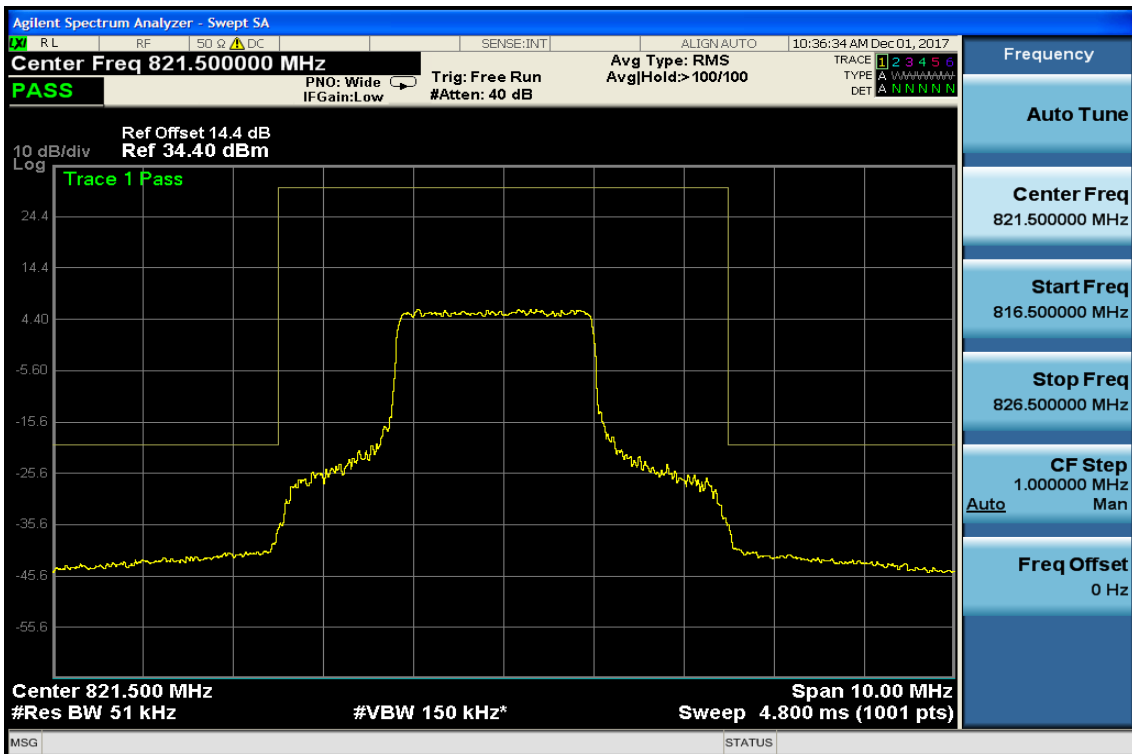
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B18 64QAM 5M 12 6 23895 Mid



B18 64QAM 5M 12 6 23915 High



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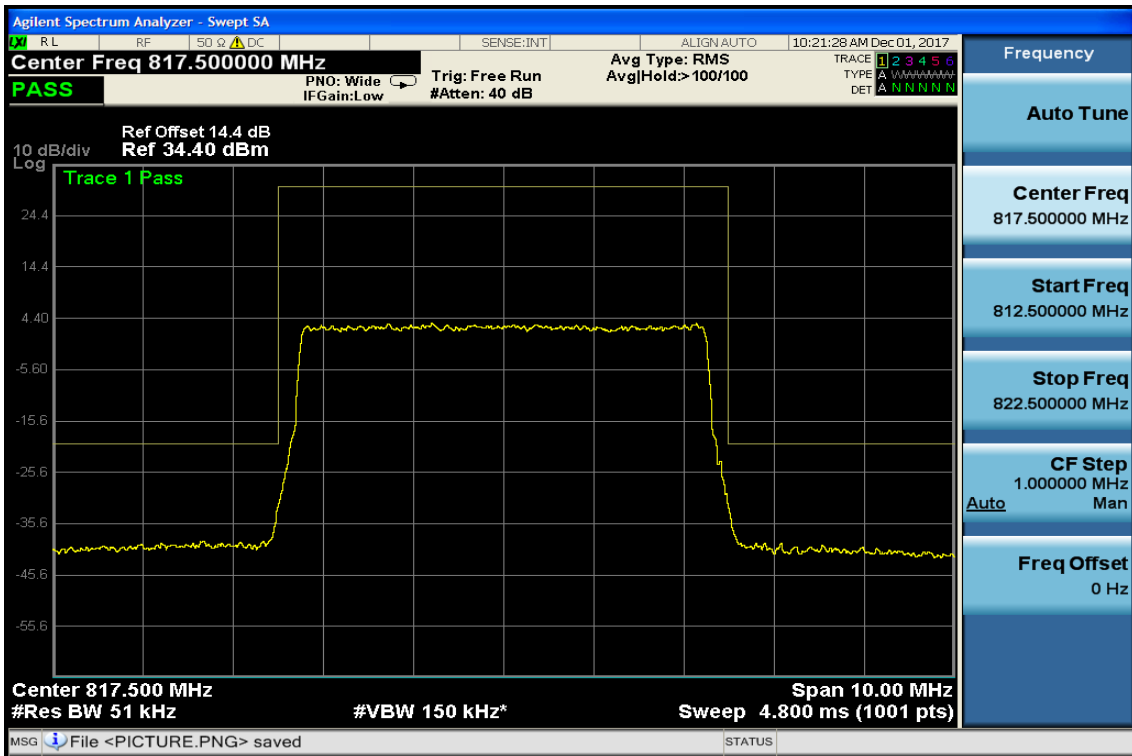
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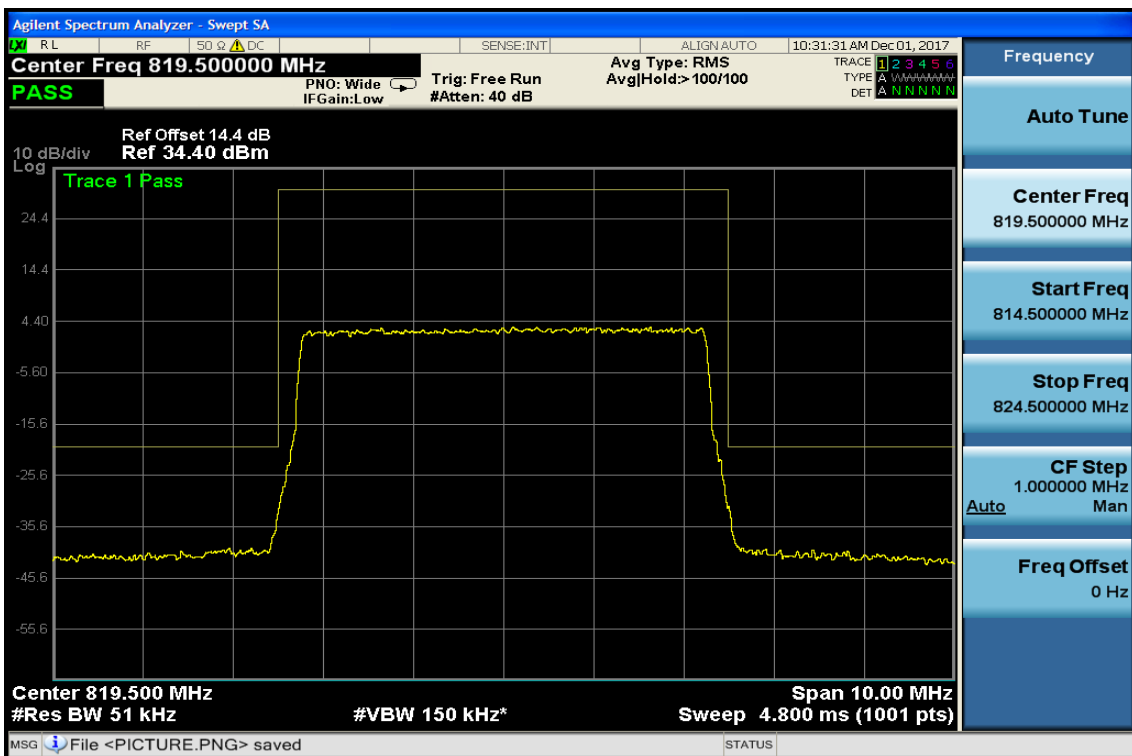
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B18 64QAM 5M 25 0 23875 Low



B18 64QAM 5M 25 0 23895 Mid



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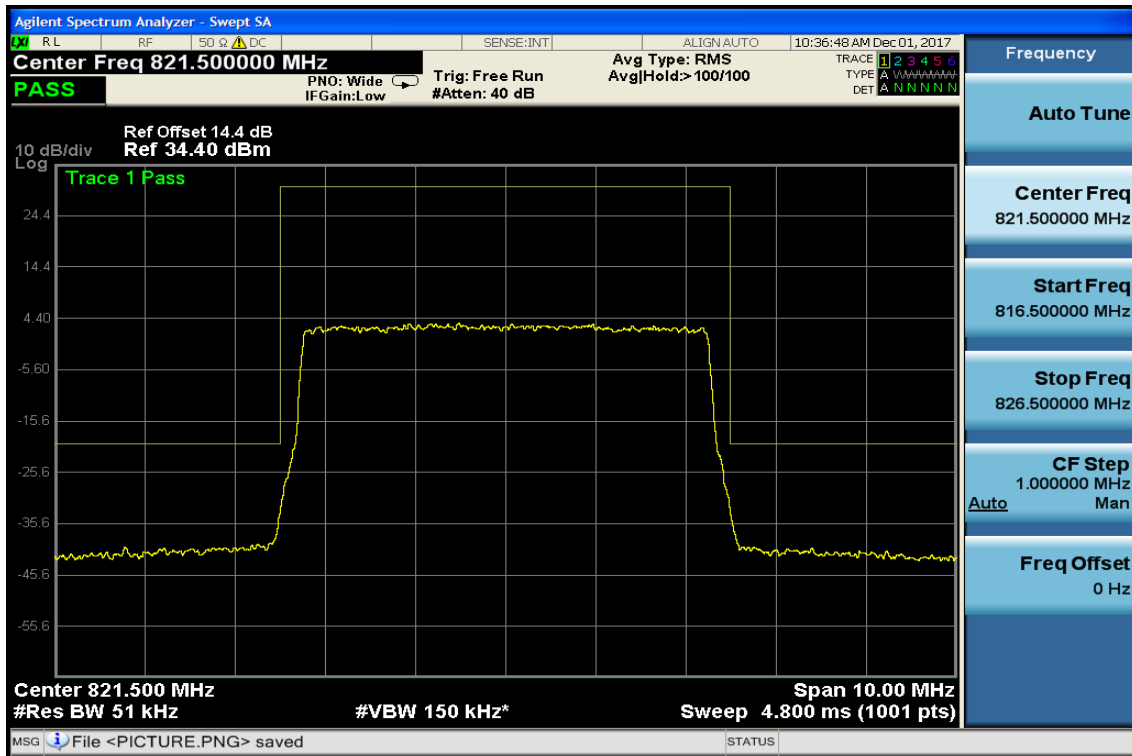
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10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1. Standard Applicable

According to FCC §2.1053,

FCC §22.917(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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§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \text{ Log}_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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	$43 + 10 \log_{10}(P)$ ^{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	$43 + 10 \log_{10}(P)$ ^{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 5.2 for the permitted frequency ranges for various equipment types.

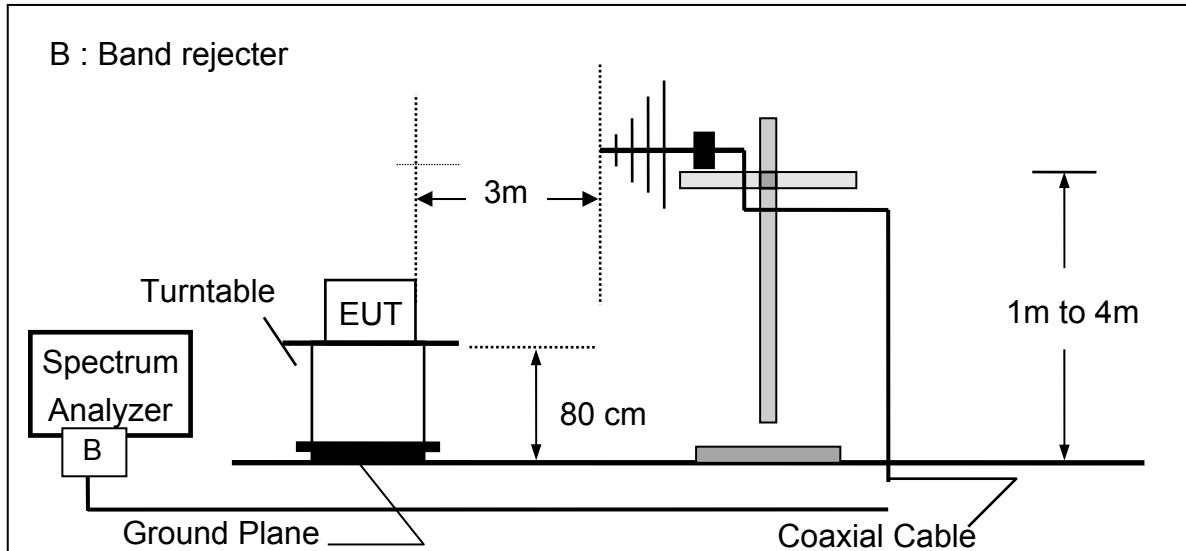
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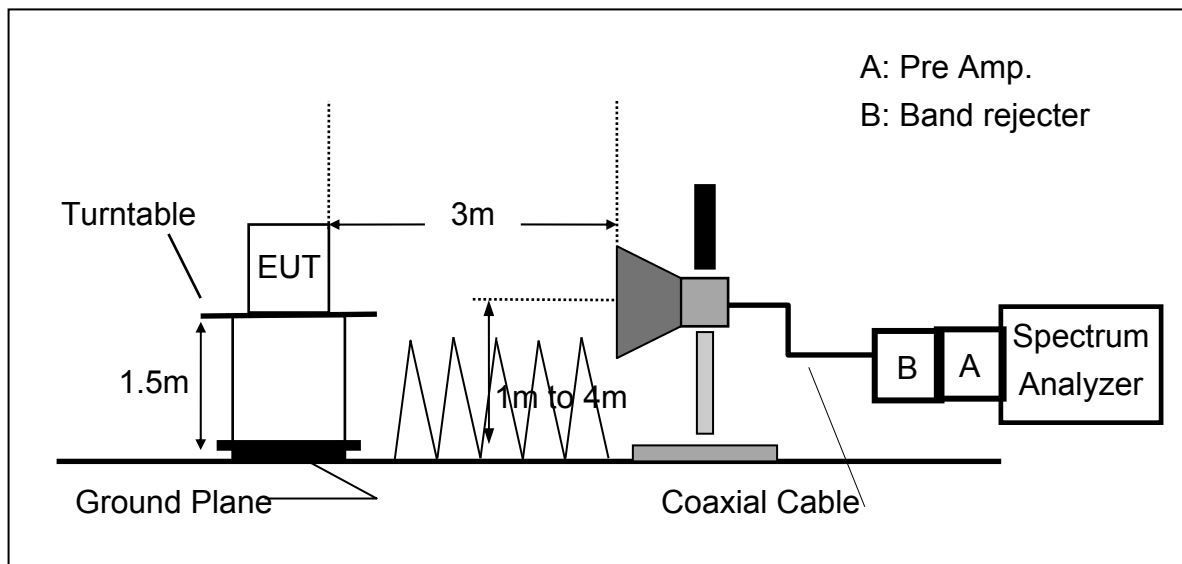
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10.2. EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.3. 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)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
“---” : denotes Noise Floor.

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10.4. Measurement Equipment Used:

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/11/2017	05/10/2018
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/25/2017	04/24/2018
Loop Antenna	ETS-Lindgren	6502	148045	09/20/2017	09/19/2018
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/04/2017	08/03/2018
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2017	01/02/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/03/2017	01/02/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2017	06/30/2018
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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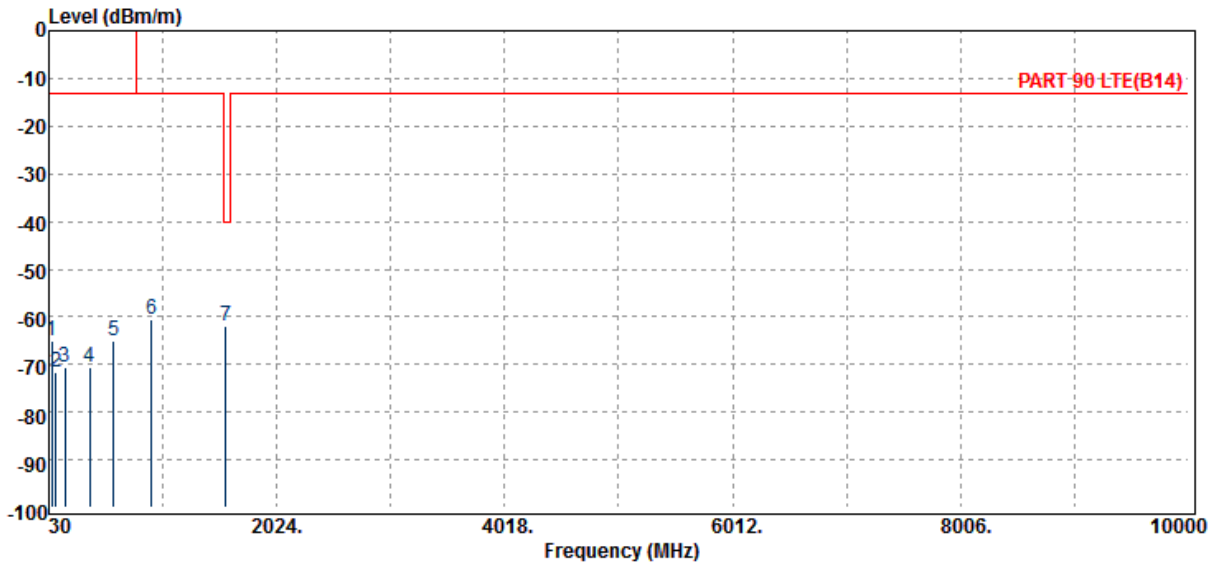
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10.5. Measurement Result:

Radiated Spurious Emission Measurement Result: LTE Band 14 Mode (Main Antenna)

Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:790.5 MHz	Engineer	:Kane
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-65.21	-54.45	-9.69	-1.07	-13.00	-52.21
93.05	S	-71.54	-69.51	-0.81	-1.22	-13.00	-58.54
173.56	S	-70.73	-68.94	-0.26	-1.53	-13.00	-57.73
385.99	S	-70.50	-72.03	3.83	-2.30	-13.00	-57.50
597.45	S	-65.17	-65.68	3.26	-2.75	-13.00	-52.17
929.19	S	-60.58	-60.46	3.13	-3.25	-13.00	-47.58
1581.00	H	-62.08	-66.93	9.01	-4.16	-13.00	-49.08

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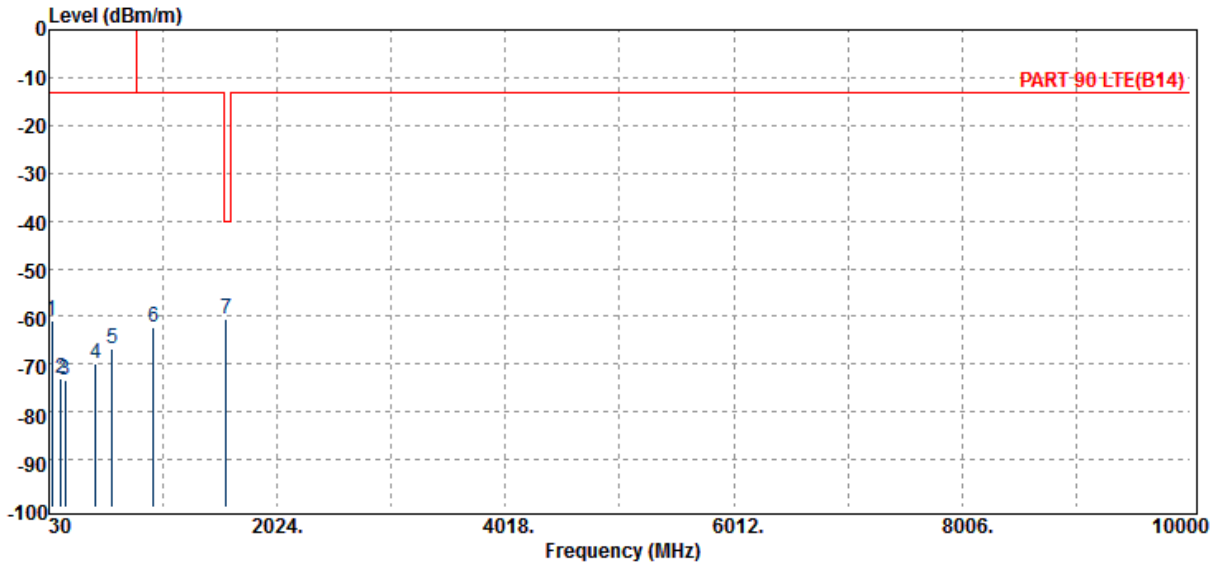
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Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:790.5 MHz	Engineer	:Kane
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-60.76	-49.51	-10.18	-1.06	-13.00	-47.76
133.79	S	-73.10	-69.06	-2.66	-1.37	-13.00	-60.10
167.74	S	-73.43	-70.84	-1.07	-1.51	-13.00	-60.43
435.46	S	-69.89	-71.35	3.69	-2.23	-13.00	-56.89
580.96	S	-66.89	-67.48	3.37	-2.79	-13.00	-53.89
944.71	S	-62.36	-62.22	3.06	-3.19	-13.00	-49.36
1581.00	H	-60.60	-65.45	9.01	-4.16	-13.00	-47.60

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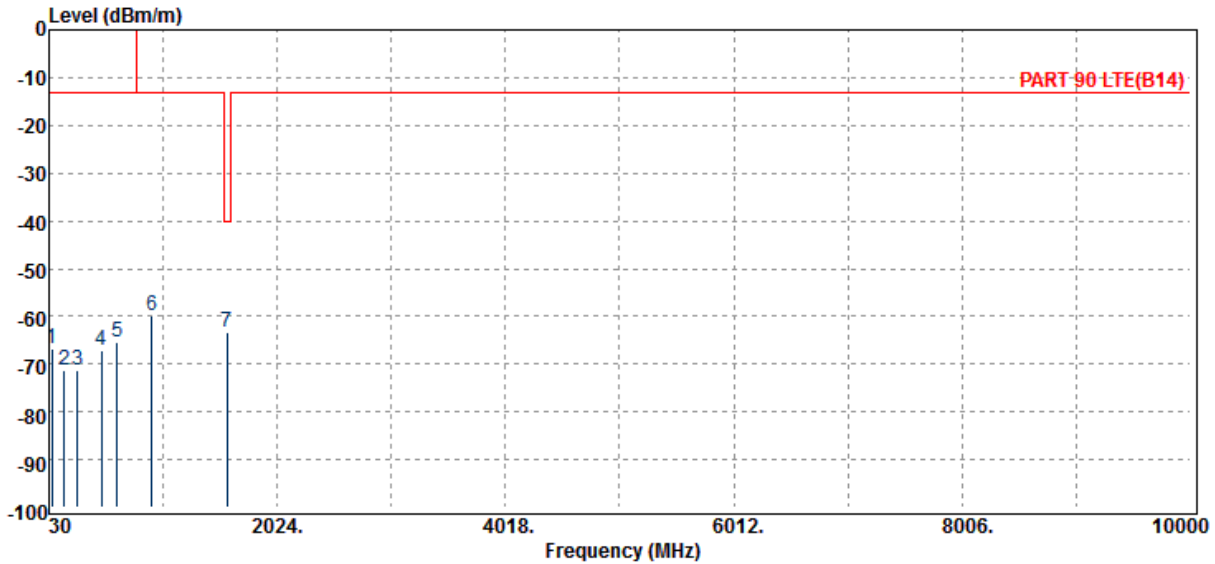
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Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:793 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
52.31	S	-66.81	-55.05	-10.70	-1.05	-13.00	-53.81
162.89	S	-71.42	-68.51	-1.42	-1.49	-13.00	-58.42
275.41	S	-71.23	-72.84	3.46	-1.85	-13.00	-58.23
485.90	S	-67.00	-68.55	3.80	-2.26	-13.00	-54.00
625.58	S	-65.27	-65.96	3.19	-2.50	-13.00	-52.27
929.19	S	-59.72	-59.61	3.13	-3.25	-13.00	-46.72
1586.00	H	-63.24	-68.10	9.03	-4.17	-13.00	-50.24

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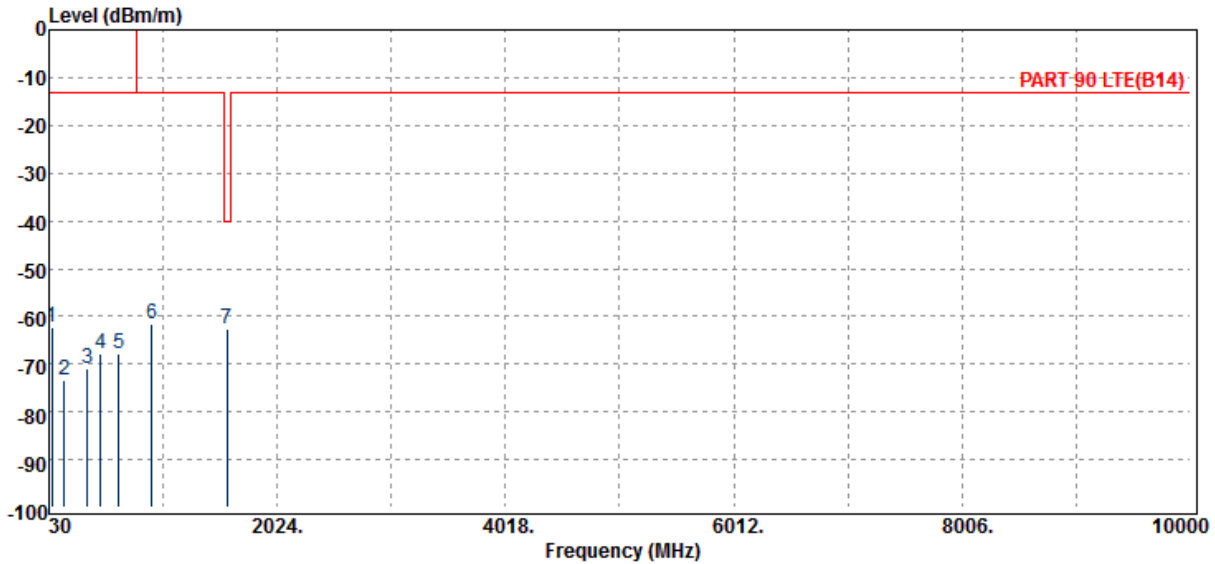
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Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:793 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-62.19	-51.44	-9.69	-1.07	-13.00	-49.19
165.80	S	-73.23	-70.52	-1.21	-1.50	-13.00	-60.23
364.65	S	-70.80	-72.48	3.85	-2.16	-13.00	-57.80
479.11	S	-67.84	-69.37	3.77	-2.24	-13.00	-54.84
636.25	S	-67.87	-68.59	3.17	-2.45	-13.00	-54.87
930.16	S	-61.73	-61.61	3.12	-3.24	-13.00	-48.73
1586.00	H	-62.52	-67.37	9.03	-4.17	-13.00	-49.52

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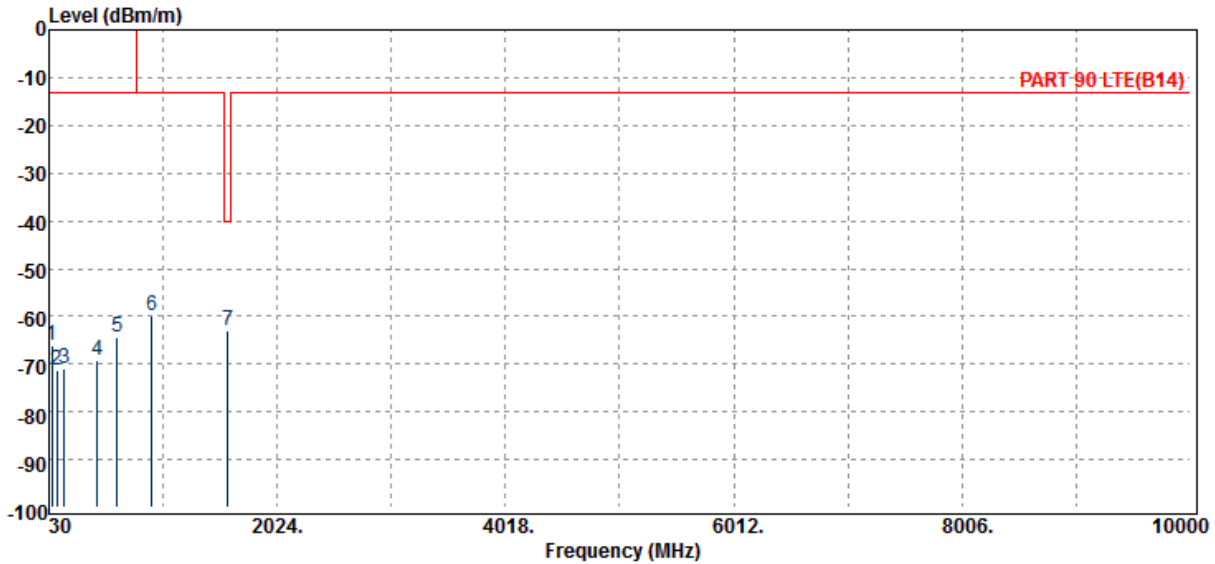
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Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:795.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-66.07	-55.31	-9.69	-1.07	-13.00	-53.07
95.96	S	-71.13	-68.74	-1.16	-1.23	-13.00	-58.13
165.80	S	-70.80	-68.08	-1.21	-1.50	-13.00	-57.80
449.04	S	-69.11	-70.57	3.65	-2.19	-13.00	-56.11
628.49	S	-64.53	-65.24	3.18	-2.47	-13.00	-51.53
930.16	S	-59.81	-59.69	3.12	-3.24	-13.00	-46.81
1591.00	H	-62.83	-67.70	9.05	-4.18	-13.00	-49.83

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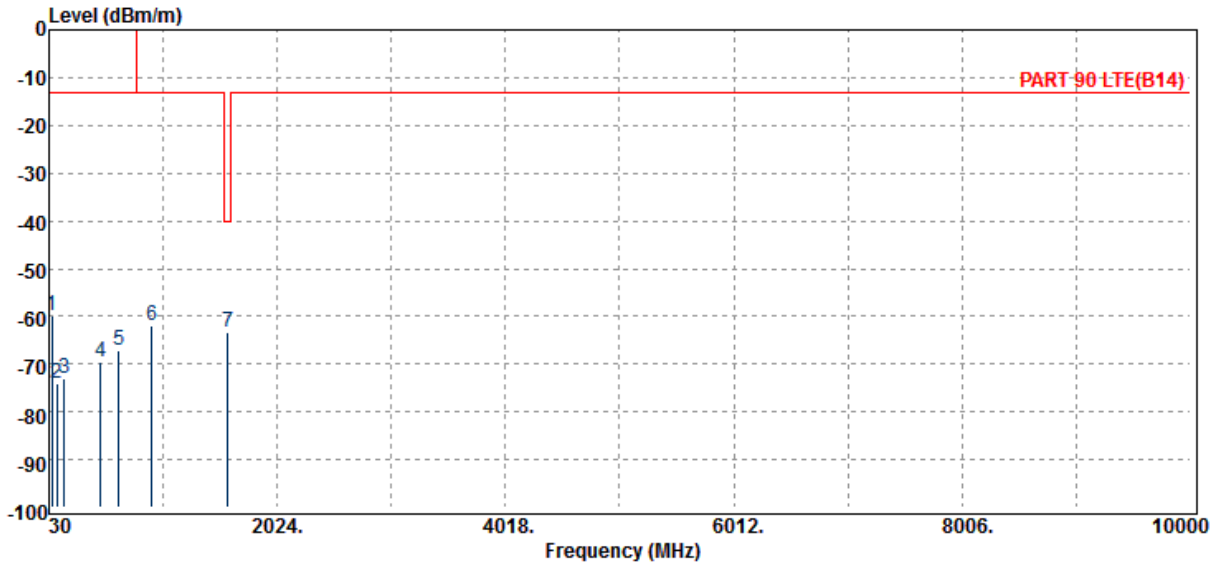
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Operation Band	:LTE B14	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:795.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-59.82	-49.30	-9.44	-1.07	-13.00	-46.82
95.96	S	-74.20	-71.81	-1.16	-1.23	-13.00	-61.20
159.98	S	-73.09	-69.97	-1.64	-1.48	-13.00	-60.09
478.14	S	-69.51	-71.04	3.77	-2.24	-13.00	-56.51
641.10	S	-67.10	-67.82	3.16	-2.43	-13.00	-54.10
929.19	S	-62.07	-61.95	3.13	-3.25	-13.00	-49.07
1591.00	H	-63.39	-68.26	9.05	-4.18	-13.00	-50.39

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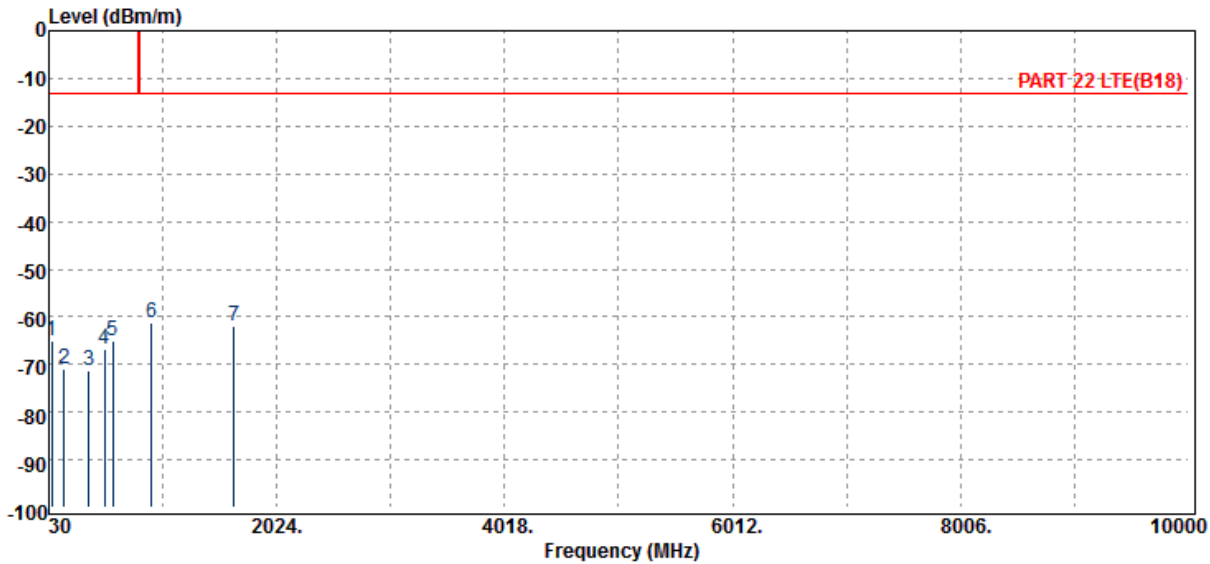
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Radiated Spurious Emission Measurement Result: LTE Band 18 Mode

Operation Band :LTE B18 Temp./Humi. :22.1 deg_C / 68 RH
 Fundamental Frequency :826.5 MHz Engineer :Kane
 Operation Mode :TX LOW
 EUT Pol. :H Plane Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-65.19	-54.67	-9.44	-1.07	-13.00	-52.19
159.98	S	-70.93	-67.81	-1.64	-1.48	-13.00	-57.93
382.11	S	-71.24	-72.80	3.83	-2.27	-13.00	-58.24
516.94	S	-66.93	-68.32	3.76	-2.37	-13.00	-53.93
590.66	S	-65.06	-65.57	3.31	-2.80	-13.00	-52.06
930.16	S	-61.34	-61.22	3.12	-3.24	-13.00	-48.34
1653.00	H	-62.05	-67.09	9.27	-4.24	-13.00	-49.05

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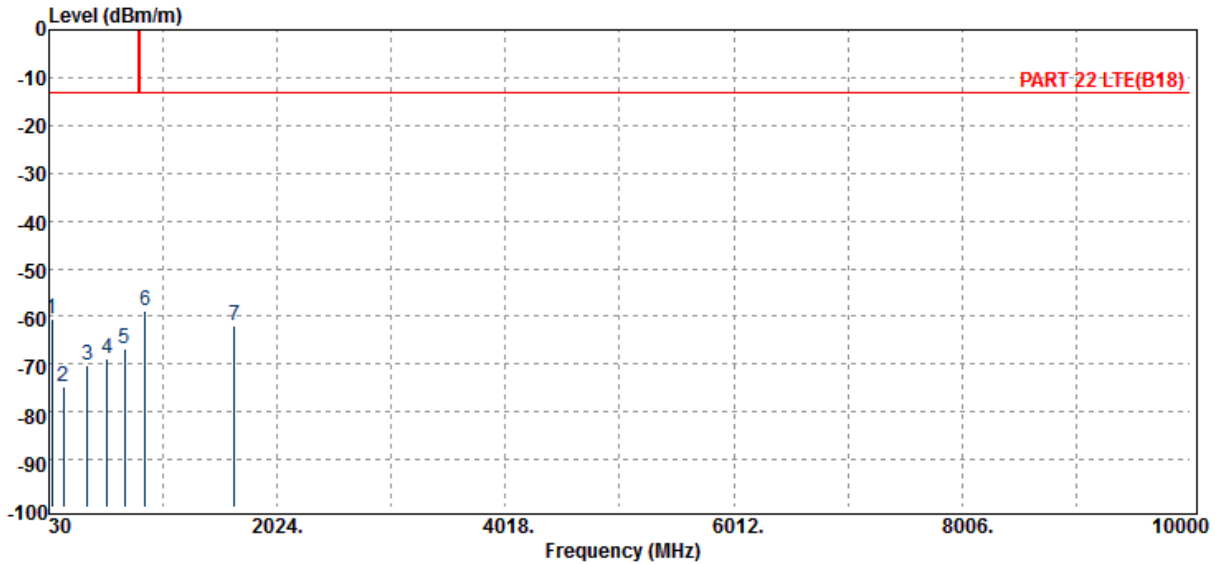
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:826.5 MHz	Engineer	:Kane
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
52.31	S	-60.61	-48.85	-10.70	-1.05	-13.00	-47.61
153.19	S	-74.57	-71.18	-1.95	-1.44	-13.00	-61.57
364.65	S	-70.31	-72.00	3.85	-2.16	-13.00	-57.31
537.31	S	-68.93	-70.01	3.65	-2.57	-13.00	-55.93
692.51	S	-66.80	-67.05	3.09	-2.84	-13.00	-53.80
871.96	S	-58.83	-58.92	3.27	-3.18	-13.00	-45.83
1653.00	H	-61.79	-66.83	9.27	-4.24	-13.00	-48.79

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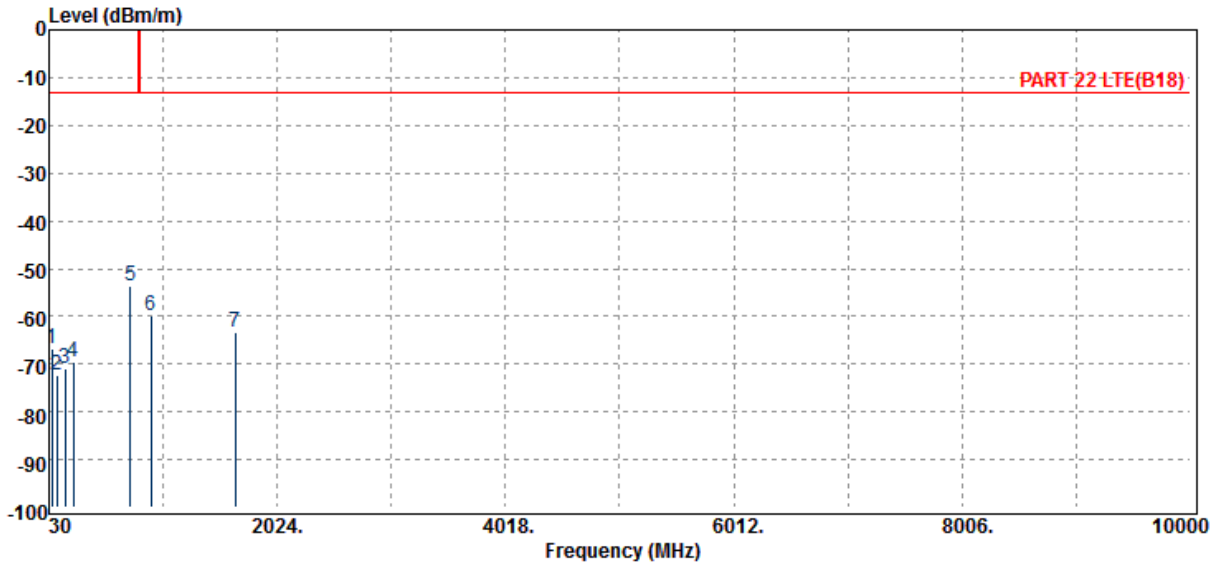
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:827 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-66.65	-56.14	-9.44	-1.07	-13.00	-53.65
97.90	S	-72.16	-69.54	-1.38	-1.24	-13.00	-59.16
173.56	S	-71.05	-69.25	-0.26	-1.53	-13.00	-58.05
240.49	S	-69.49	-71.05	3.29	-1.74	-13.00	-56.49
742.95	S	-53.79	-53.84	3.17	-3.12	-13.00	-40.79
922.40	S	-59.85	-59.75	3.16	-3.26	-13.00	-46.85
1654.00	H	-63.27	-68.31	9.28	-4.24	-13.00	-50.27

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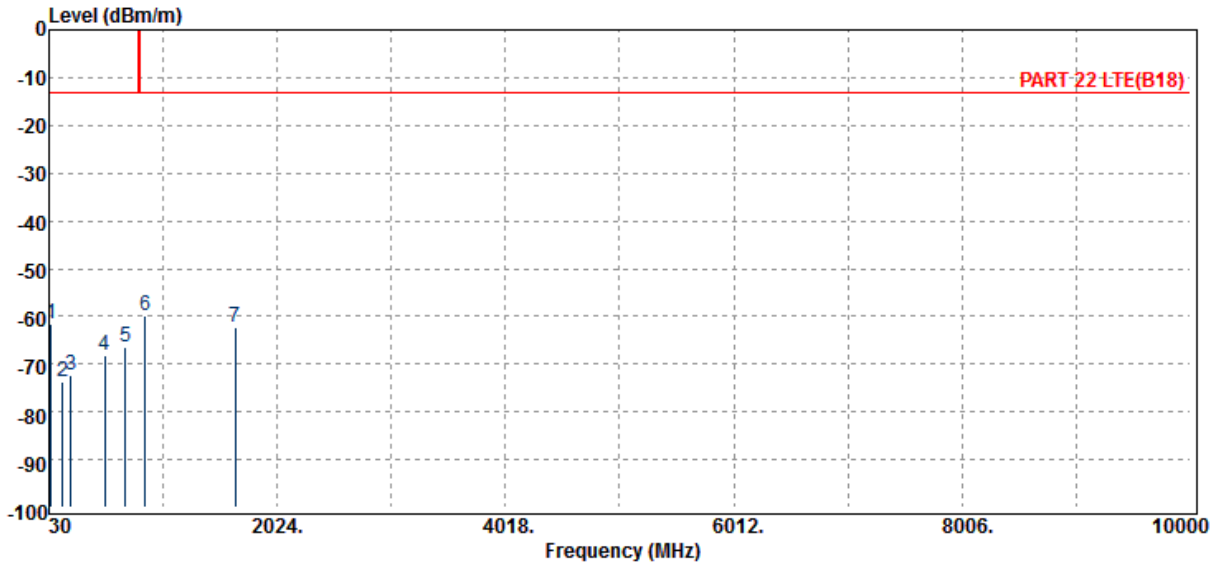
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:827 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
51.34	S	-61.68	-49.66	-10.97	-1.05	-13.00	-48.68
148.34	S	-73.81	-70.19	-2.19	-1.42	-13.00	-60.81
224.00	S	-72.22	-73.75	3.24	-1.71	-13.00	-59.22
519.85	S	-68.29	-69.65	3.75	-2.39	-13.00	-55.29
694.45	S	-66.28	-66.49	3.09	-2.88	-13.00	-53.28
870.99	S	-59.82	-59.92	3.27	-3.17	-13.00	-46.82
1654.00	H	-62.13	-67.16	9.28	-4.24	-13.00	-49.13

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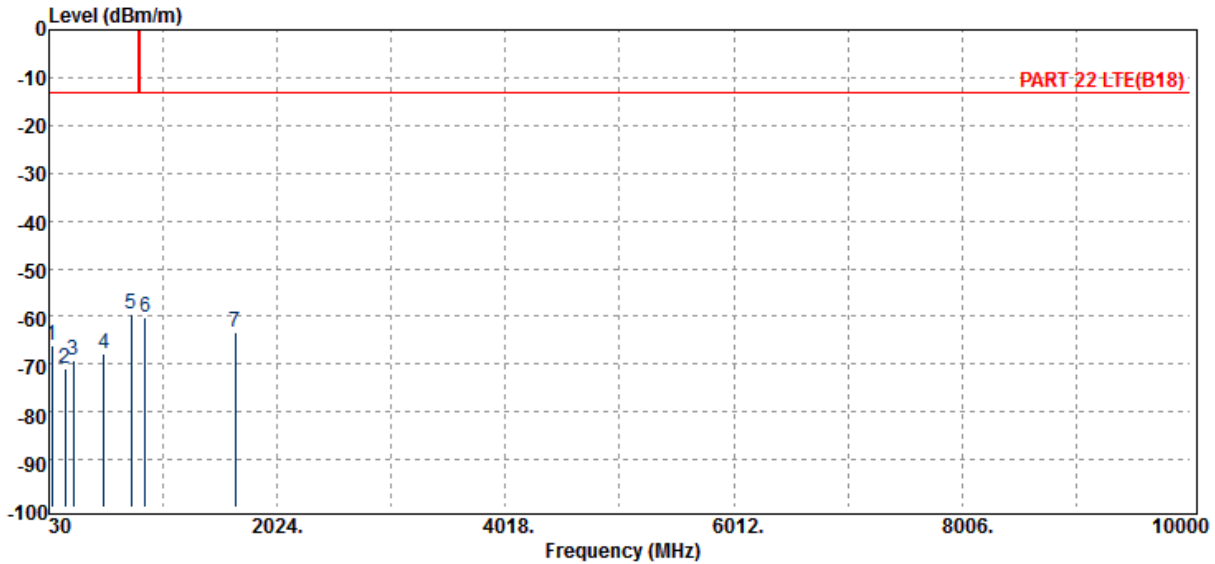
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:827.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-66.26	-55.01	-10.18	-1.06	-13.00	-53.26
170.65	S	-71.10	-68.79	-0.79	-1.52	-13.00	-58.10
241.46	S	-69.08	-70.64	3.31	-1.74	-13.00	-56.08
512.09	S	-67.78	-69.22	3.79	-2.35	-13.00	-54.78
747.80	S	-59.55	-59.64	3.18	-3.09	-13.00	-46.55
873.90	S	-60.08	-60.15	3.27	-3.19	-13.00	-47.08
1655.00	H	-63.47	-68.51	9.28	-4.25	-13.00	-50.47

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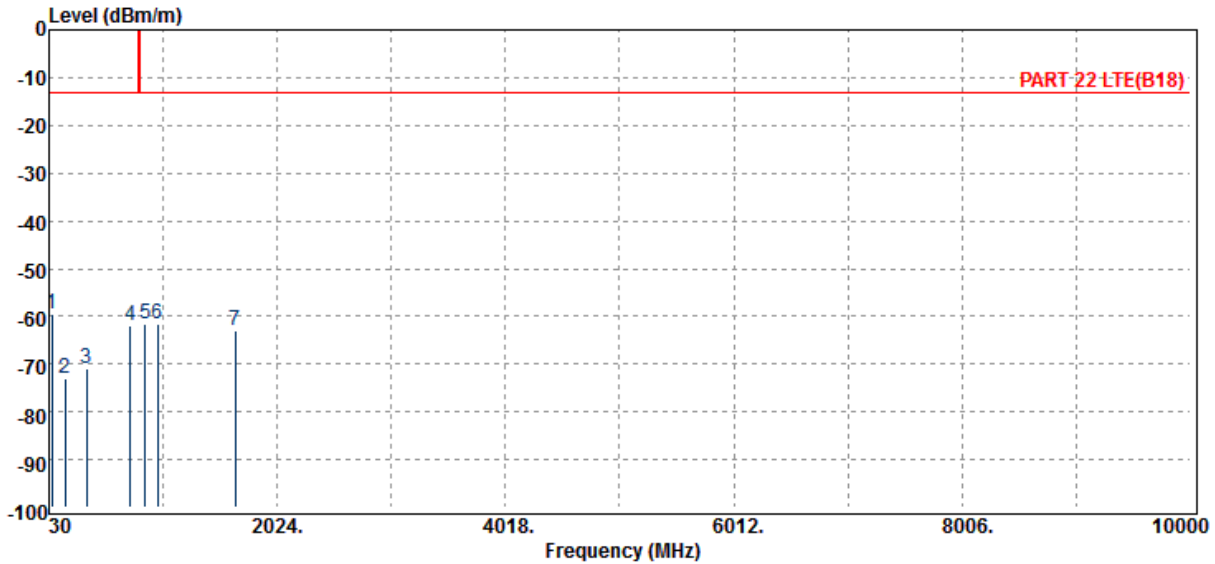
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:827.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-59.35	-48.10	-10.18	-1.06	-13.00	-46.35
167.74	S	-73.18	-70.60	-1.07	-1.51	-13.00	-60.18
357.86	S	-71.01	-72.76	3.85	-2.11	-13.00	-58.01
742.95	S	-61.77	-61.82	3.17	-3.12	-13.00	-48.77
870.99	S	-61.46	-61.56	3.27	-3.17	-13.00	-48.46
975.75	S	-61.46	-61.84	3.56	-3.18	-13.00	-48.46
1655.00	H	-62.82	-67.86	9.28	-4.25	-13.00	-49.82

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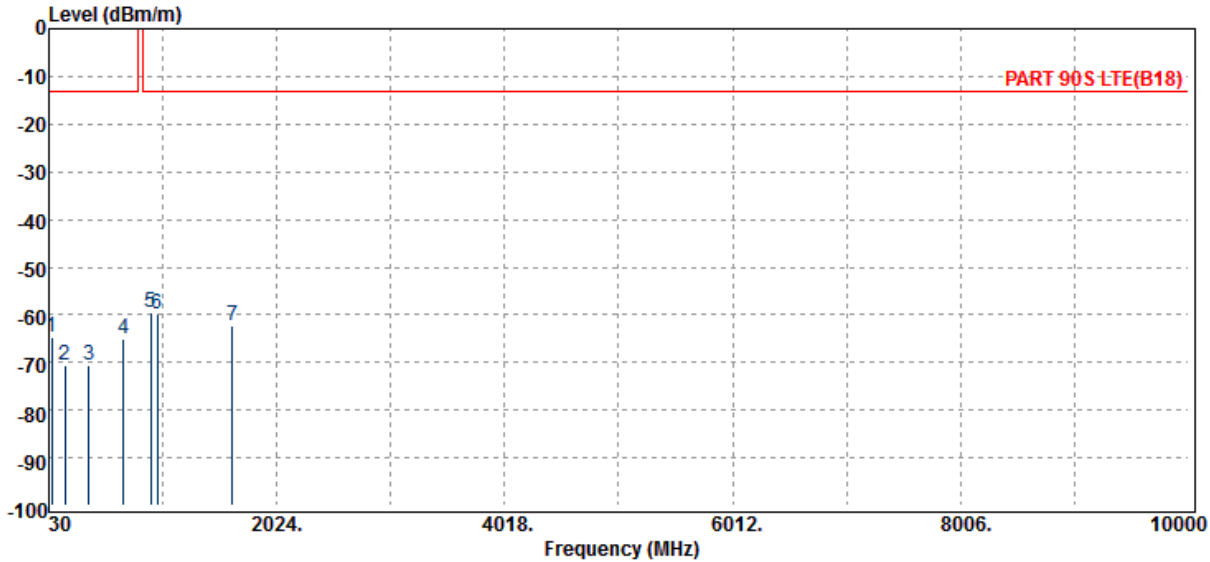
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Radiated Spurious Emission Measurement Result: LTE Band 18 Mode (Part 90S)

Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:817.5 MHz	Engineer	:Kane
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
57.16	S	-64.76	-54.24	-9.44	-1.07	-13.00	-51.76
167.74	S	-70.69	-68.10	-1.07	-1.51	-13.00	-57.69
382.11	S	-70.74	-72.31	3.83	-2.27	-13.00	-57.74
684.75	S	-64.89	-65.28	3.10	-2.70	-13.00	-51.89
924.34	S	-59.36	-59.25	3.15	-3.26	-13.00	-46.36
975.75	S	-60.01	-60.39	3.56	-3.18	-13.00	-47.01
1635.00	H	-62.35	-67.38	9.21	-4.17	-13.00	-49.35

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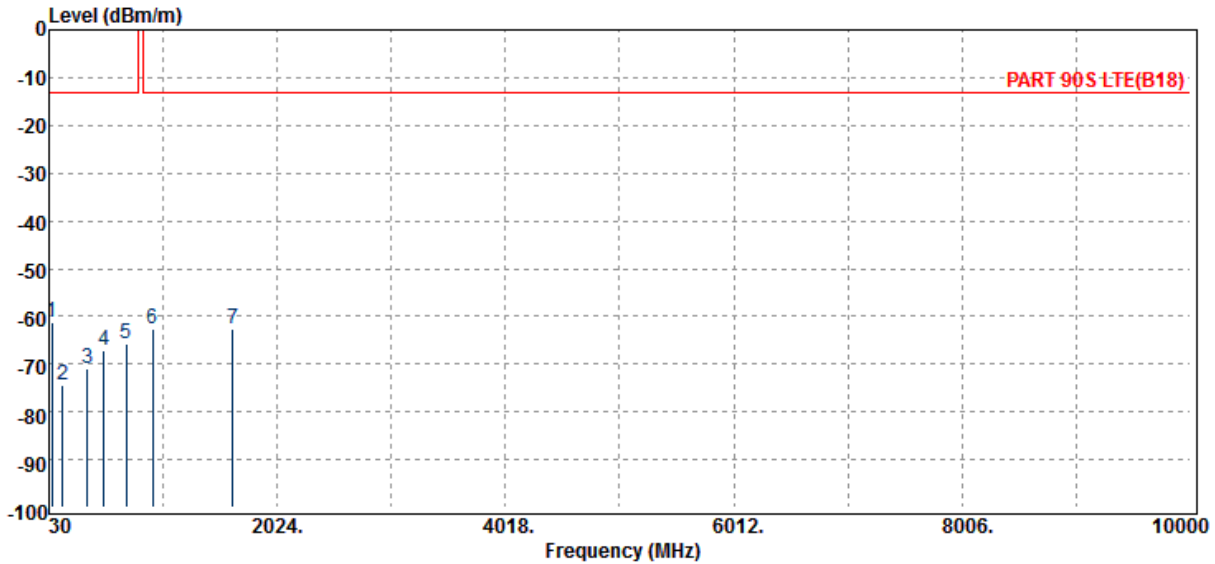
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:817.5 MHz	Engineer	:Kane
Operation Mode	:TX LOW		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-61.32	-50.07	-10.18	-1.06	-13.00	-48.32
146.40	S	-74.41	-70.68	-2.31	-1.42	-13.00	-61.41
367.56	S	-71.04	-72.70	3.85	-2.18	-13.00	-58.04
513.06	S	-67.17	-68.61	3.79	-2.35	-13.00	-54.17
701.24	S	-65.73	-65.82	3.08	-3.00	-13.00	-52.73
938.89	S	-62.49	-62.37	3.08	-3.21	-13.00	-49.49
1635.00	H	-62.79	-67.82	9.21	-4.17	-13.00	-49.79

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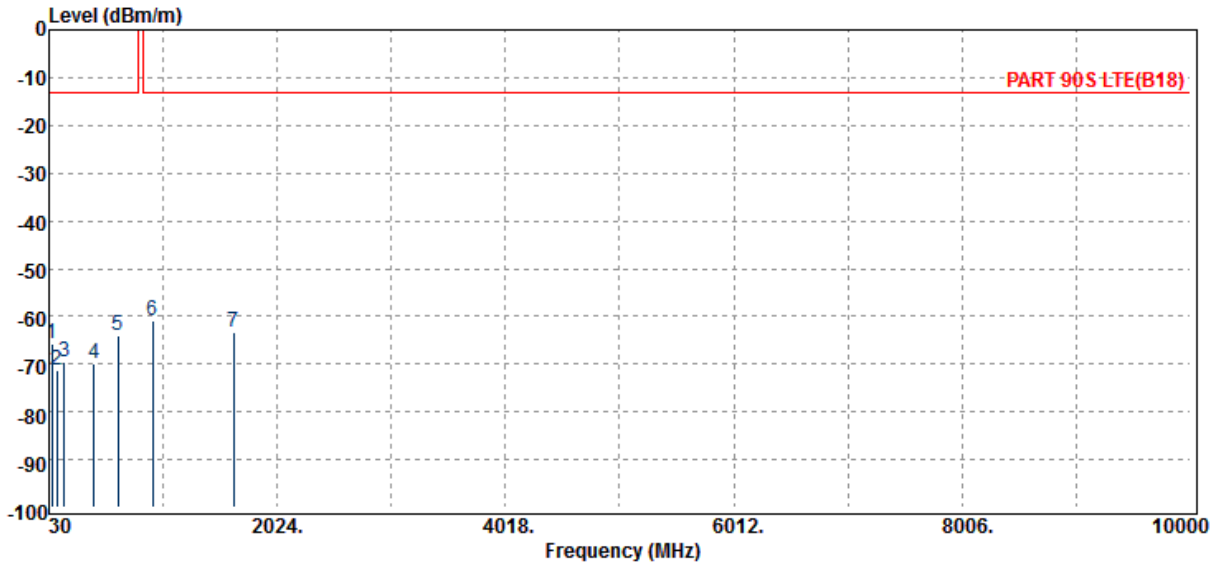
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.5 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
56.19	S	-65.87	-55.12	-9.69	-1.07	-13.00	-52.87
95.96	S	-71.14	-68.75	-1.16	-1.23	-13.00	-58.14
160.95	S	-69.51	-66.47	-1.57	-1.48	-13.00	-56.51
422.85	S	-69.90	-71.33	3.74	-2.31	-13.00	-56.90
631.40	S	-64.07	-64.78	3.18	-2.46	-13.00	-51.07
932.10	S	-60.91	-60.79	3.12	-3.23	-13.00	-47.91
1639.00	H	-63.30	-68.33	9.22	-4.19	-13.00	-50.30

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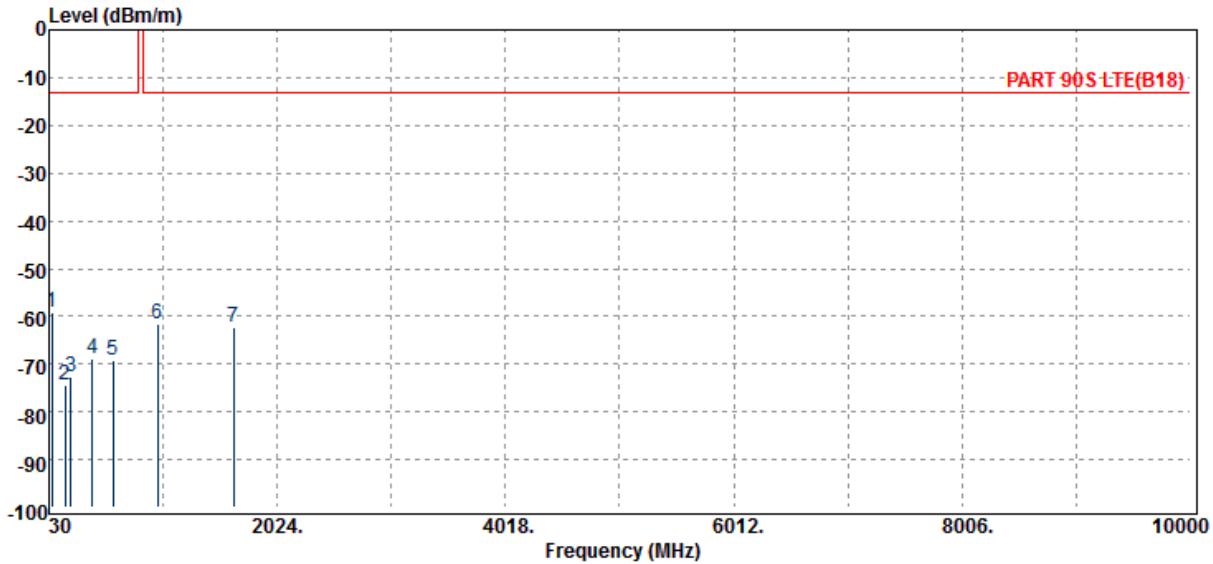
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:819.5 MHz	Engineer	:Kane
Operation Mode	:TX MID		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-59.32	-48.08	-10.18	-1.06	-13.00	-46.32
172.59	S	-74.44	-72.47	-0.44	-1.53	-13.00	-61.44
224.00	S	-72.53	-74.06	3.24	-1.71	-13.00	-59.53
410.24	S	-68.85	-70.24	3.78	-2.40	-13.00	-55.85
585.81	S	-69.16	-69.71	3.34	-2.79	-13.00	-56.16
978.66	S	-61.65	-62.08	3.62	-3.19	-13.00	-48.65
1639.00	H	-62.37	-67.40	9.22	-4.19	-13.00	-49.37

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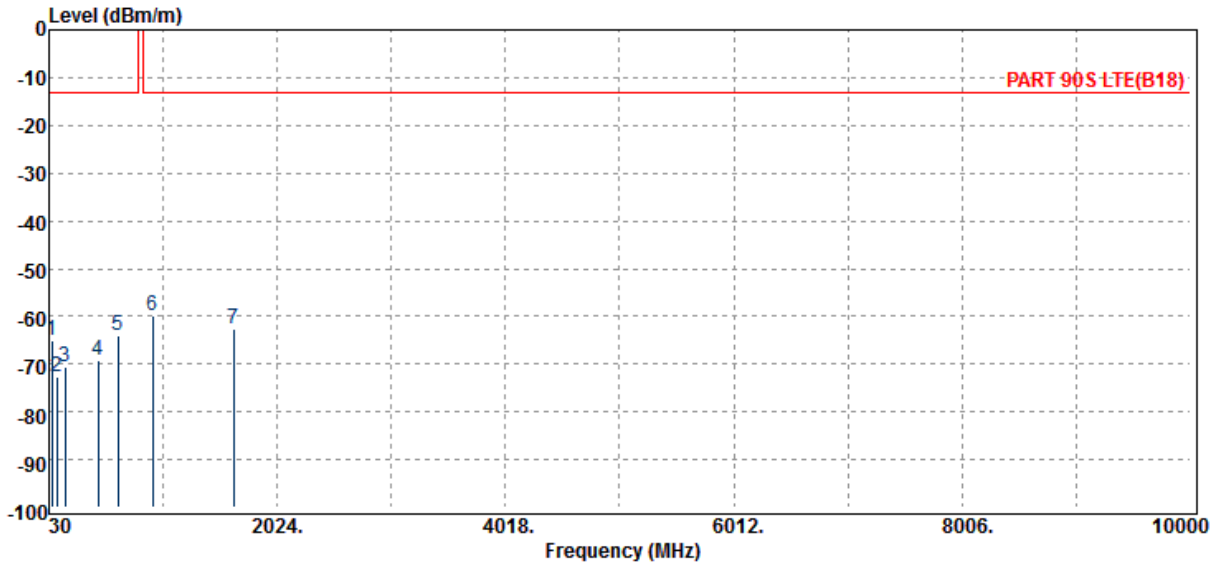
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
54.25	S	-64.96	-53.72	-10.18	-1.06	-13.00	-51.96
95.96	S	-72.83	-70.44	-1.16	-1.23	-13.00	-59.83
167.74	S	-70.63	-68.05	-1.07	-1.51	-13.00	-57.63
459.71	S	-69.28	-70.76	3.69	-2.21	-13.00	-56.28
634.31	S	-63.84	-64.56	3.17	-2.45	-13.00	-50.84
936.95	S	-59.89	-59.77	3.09	-3.22	-13.00	-46.89
1643.00	H	-62.63	-67.66	9.24	-4.20	-13.00	-49.63

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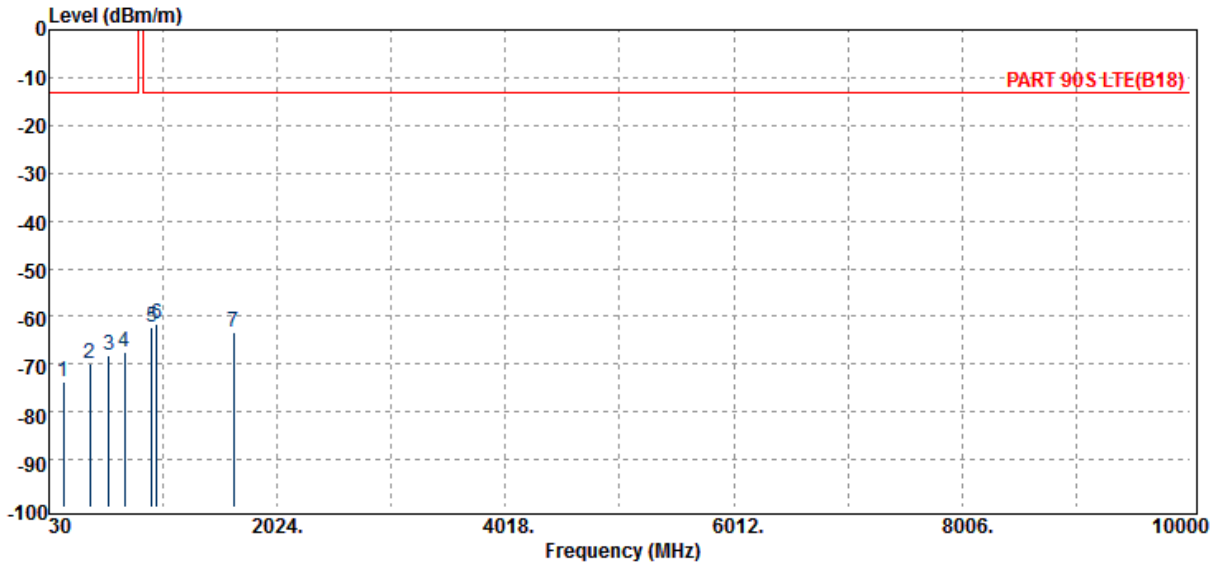
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Operation Band	:LTE B18	Temp./Humi.	:22.1 deg_C / 68 RH
Fundamental Frequency	:821.5 MHz	Engineer	:Kane
Operation Mode	:TX HIGH		
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB
153.19	S	-73.61	-70.22	-1.95	-1.44	-13.00	-60.61
388.90	S	-70.06	-71.57	3.83	-2.31	-13.00	-57.06
555.74	S	-68.27	-69.06	3.55	-2.75	-13.00	-55.27
687.66	S	-67.49	-67.83	3.10	-2.76	-13.00	-54.49
927.25	S	-62.42	-62.31	3.14	-3.25	-13.00	-49.42
973.81	S	-61.67	-62.02	3.52	-3.18	-13.00	-48.67
1643.00	H	-63.25	-68.29	9.24	-4.20	-13.00	-50.25

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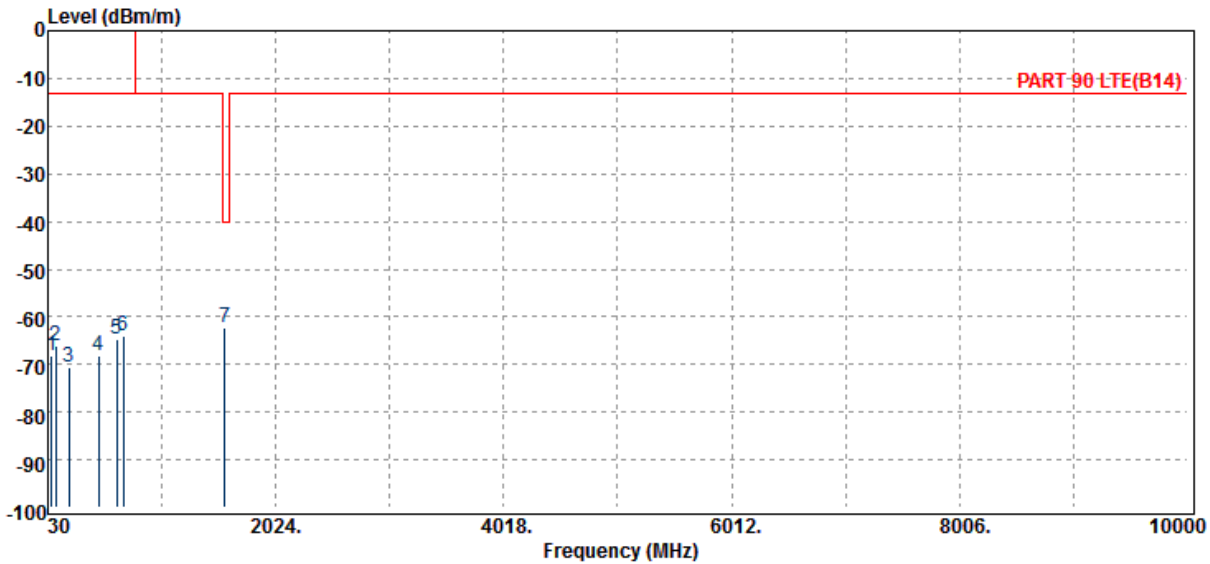
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Radiated Spurious Emission Measurement Result: LTE Band 14 (AUX antenna)

Operation Band	:LTE B14	Test Date	:2017-11-29
Fundamental Frequency	:790.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:TX LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
61.04	S	Peak	0.00	-68.02	-68.02	-13.00	-55.02
94.99	S	Peak	0.00	-66.19	-66.19	-13.00	-53.19
216.24	S	Peak	0.00	-70.48	-70.48	-13.00	-57.48
471.35	S	Peak	-0.01	-68.17	-68.18	-13.00	-55.18
629.46	S	Peak	0.00	-64.65	-64.65	-13.00	-51.65
686.69	S	Peak	0.00	-64.11	-64.11	-13.00	-51.11
1581.00	H	Peak	0.00	-62.38	-62.38	-13.00	-49.38

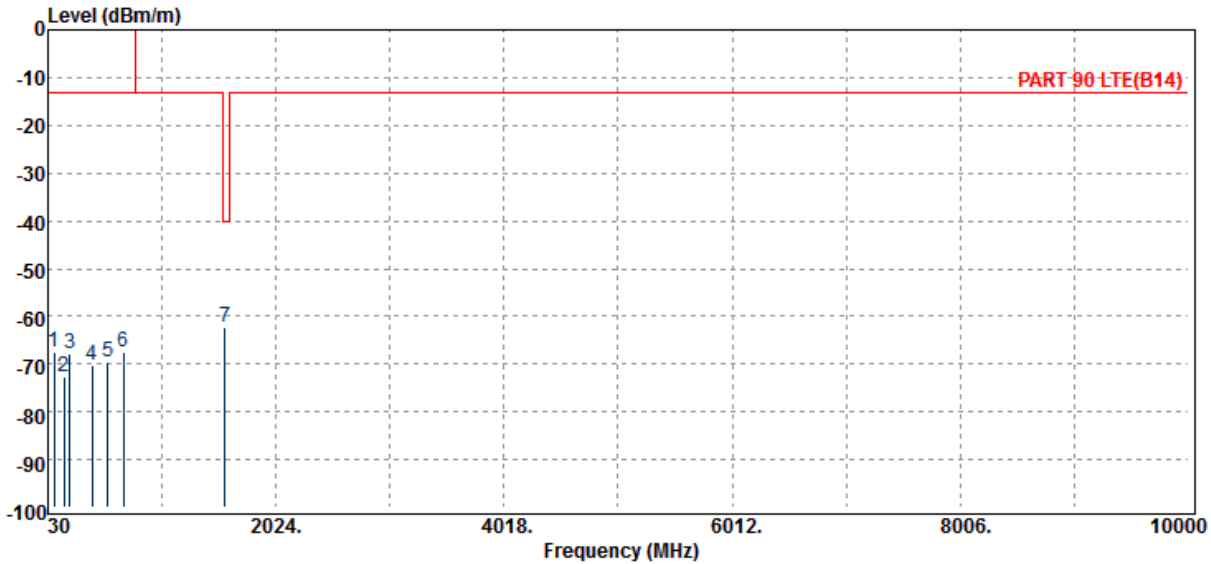
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Operation Band :LTE B14
Fundamental Frequency :790.5 MHz
Operation Mode :TX LOW
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
83.35	S	Peak	0.00	-67.53	-67.53	-13.00	-54.53
173.56	S	Peak	0.00	-72.65	-72.65	-13.00	-59.65
219.15	S	Peak	0.00	-67.85	-67.85	-13.00	-54.85
413.15	S	Peak	0.00	-70.10	-70.10	-13.00	-57.10
550.89	S	Peak	0.00	-69.53	-69.53	-13.00	-56.53
687.66	S	Peak	0.00	-67.37	-67.37	-13.00	-54.37
1581.00	H	Peak	0.00	-62.15	-62.15	-13.00	-49.15

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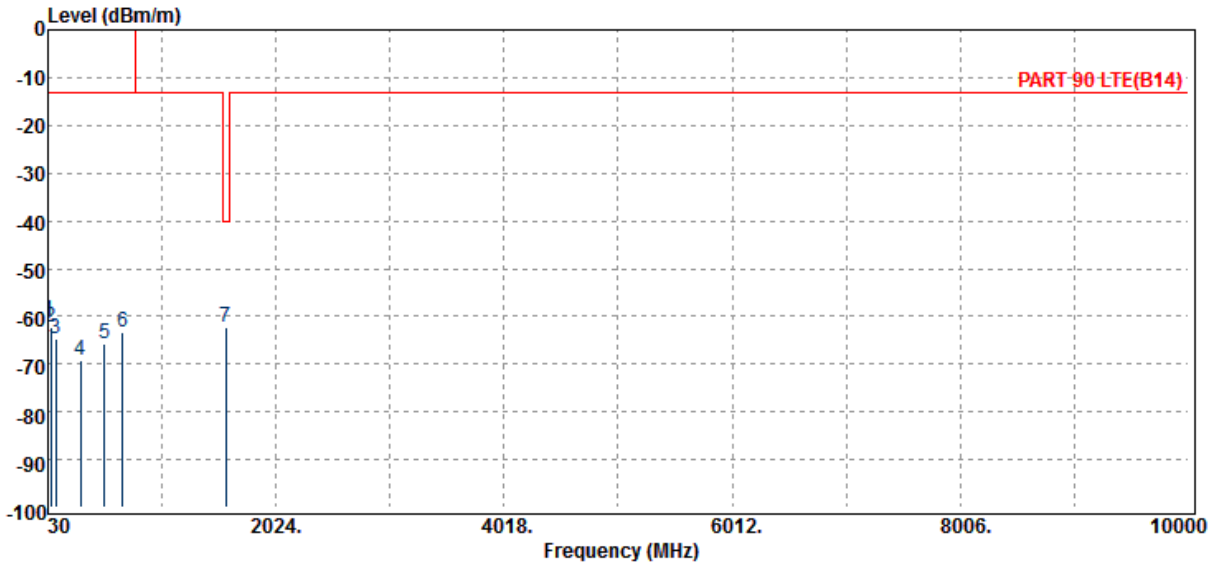
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Operation Band :LTE B14
Fundamental Frequency :793 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
34.85	S	Peak	0.00	-61.06	-61.06	-13.00	-48.06
57.16	S	Peak	-0.01	-62.29	-62.30	-13.00	-49.30
95.96	S	Peak	0.01	-64.81	-64.80	-13.00	-51.80
313.24	S	Peak	-0.01	-69.18	-69.19	-13.00	-56.19
526.64	S	Peak	0.00	-65.69	-65.69	-13.00	-52.69
679.90	S	Peak	0.01	-63.23	-63.22	-13.00	-50.22
1586.00	H	Peak	0.00	-62.14	-62.14	-13.00	-49.14

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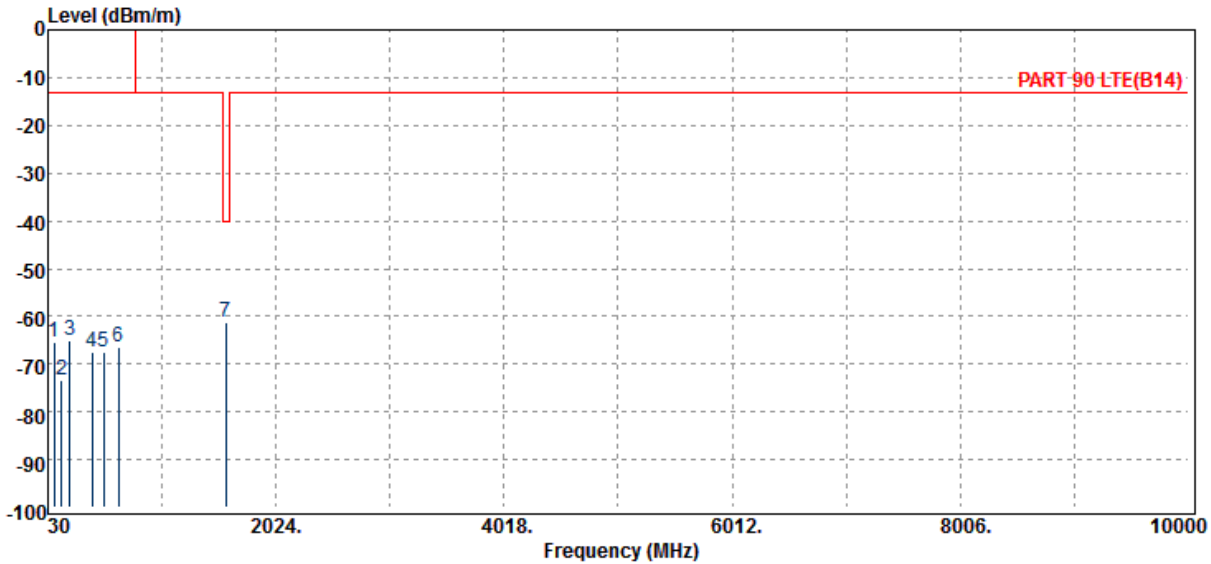
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Operation Band :LTE B14
Fundamental Frequency :793 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
85.29	S	Peak	0.00	-65.44	-65.44	-13.00	-52.44
152.22	S	Peak	0.00	-73.27	-73.27	-13.00	-60.27
219.15	S	Peak	0.01	-65.22	-65.21	-13.00	-52.21
413.15	S	Peak	0.00	-67.59	-67.59	-13.00	-54.59
519.85	S	Peak	0.00	-67.64	-67.64	-13.00	-54.64
647.89	S	Peak	0.00	-66.40	-66.40	-13.00	-53.40
1586.00	H	Peak	0.00	-61.26	-61.26	-13.00	-48.26

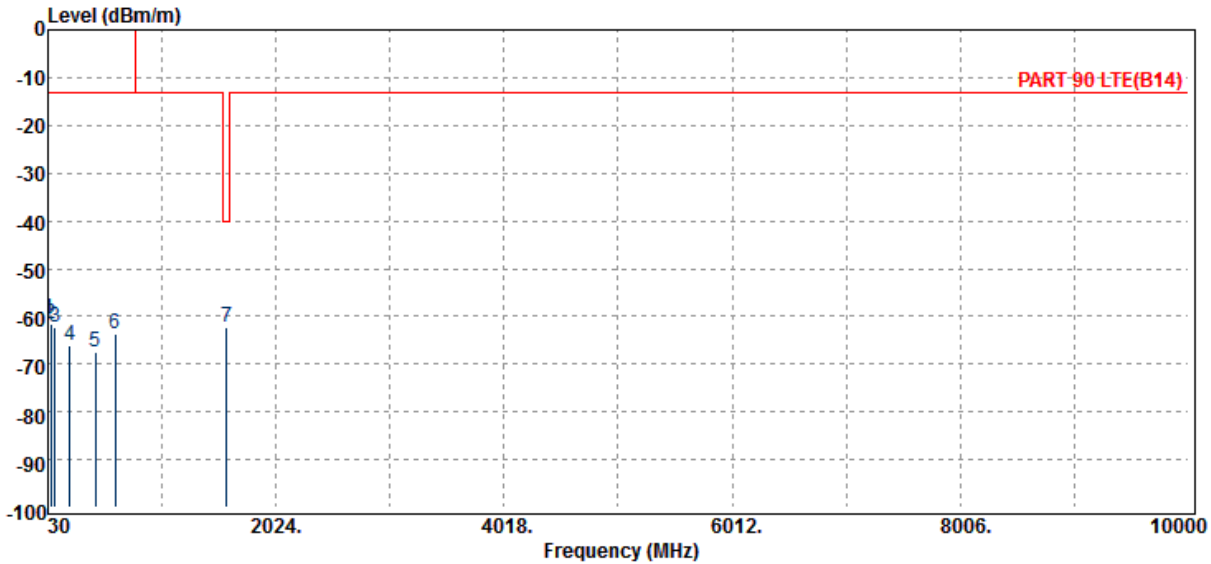
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Operation Band :LTE B14
Fundamental Frequency :795 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
36.79	S	Peak	0.01	-60.54	-60.53	-13.00	-47.53
56.19	S	Peak	0.00	-61.74	-61.74	-13.00	-48.74
90.14	S	Peak	0.00	-62.40	-62.40	-13.00	-49.40
219.15	S	Peak	0.01	-66.05	-66.04	-13.00	-53.04
445.16	S	Peak	0.00	-67.62	-67.62	-13.00	-54.62
618.79	S	Peak	0.01	-63.76	-63.75	-13.00	-50.75
1591.00	H	Peak	0.00	-62.45	-62.45	-13.00	-49.45

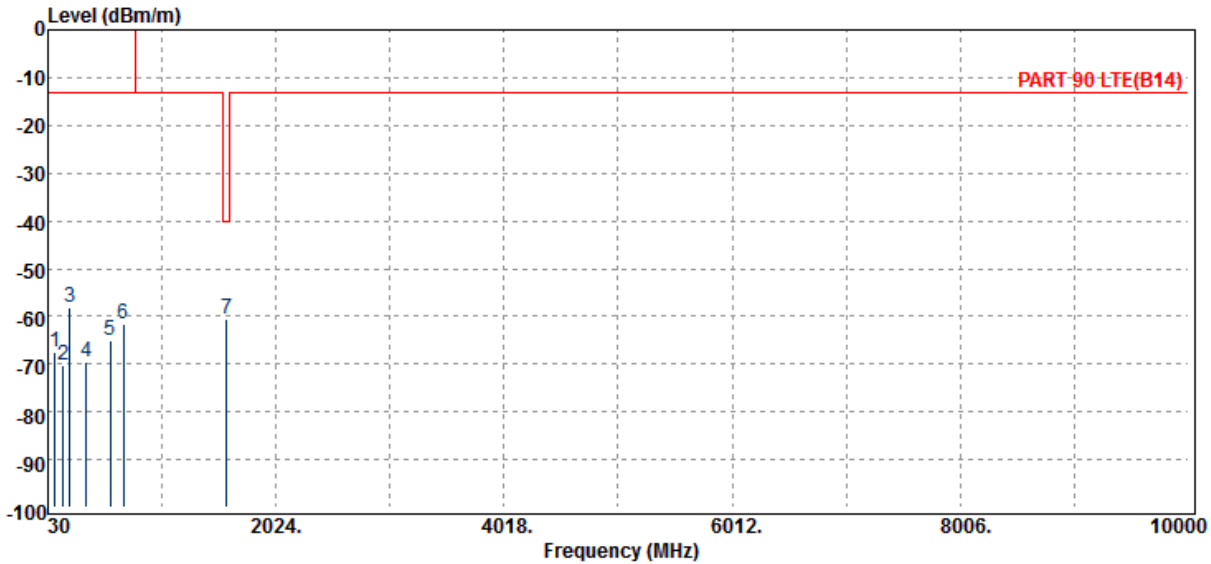
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Operation Band :LTE B14
Fundamental Frequency :795 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
88.20	S	Peak	0.00	-67.36	-67.36	-13.00	-54.36
165.80	S	Peak	0.00	-70.29	-70.29	-13.00	-57.29
221.09	S	Peak	0.01	-58.01	-58.00	-13.00	-45.00
367.56	S	Peak	0.00	-69.63	-69.63	-13.00	-56.63
574.17	S	Peak	0.00	-65.14	-65.14	-13.00	-52.14
689.60	S	Peak	0.00	-61.48	-61.48	-13.00	-48.48
1591.00	H	Peak	0.00	-60.49	-60.49	-13.00	-47.49

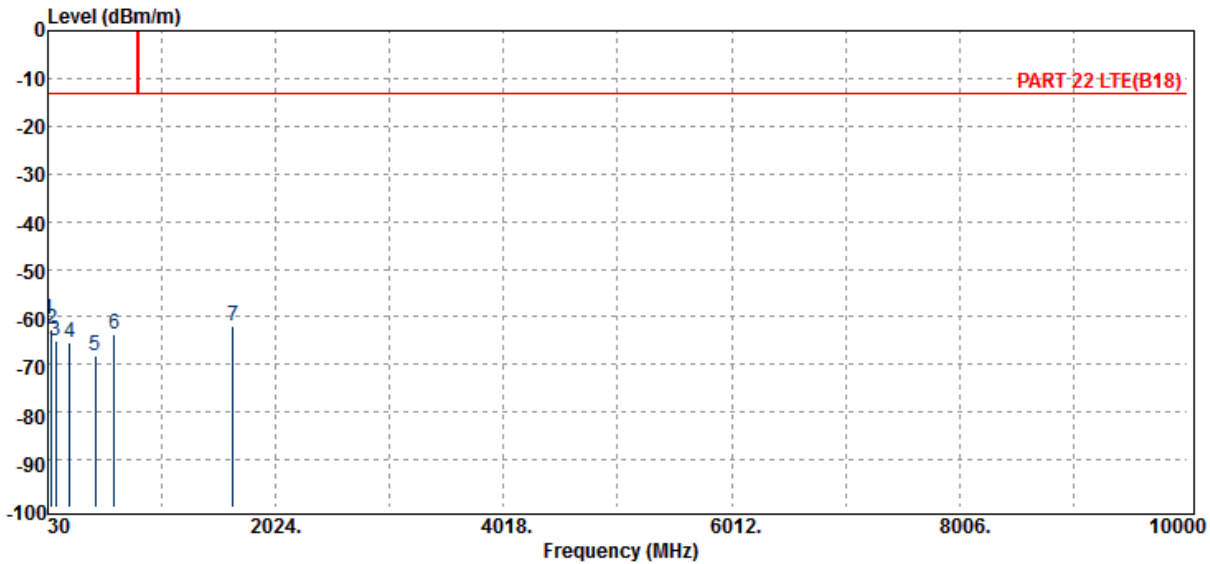
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Radiated Spurious Emission Measurement Result: LTE Band 18

Operation Band	:LTE B18	Test Date	:2017-11-29
Fundamental Frequency	:826.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:TX LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
34.85	S	Peak	-0.01	-60.50	-60.51	-13.00	-47.51
59.10	S	Peak	0.00	-62.54	-62.54	-13.00	-49.54
95.96	S	Peak	0.00	-64.88	-64.88	-13.00	-51.88
219.15	S	Peak	0.01	-65.28	-65.27	-13.00	-52.27
445.16	S	Peak	0.00	-68.22	-68.22	-13.00	-55.22
613.94	S	Peak	0.00	-63.52	-63.52	-13.00	-50.52
1653.00	H	Peak	0.00	-61.97	-61.97	-13.00	-48.97

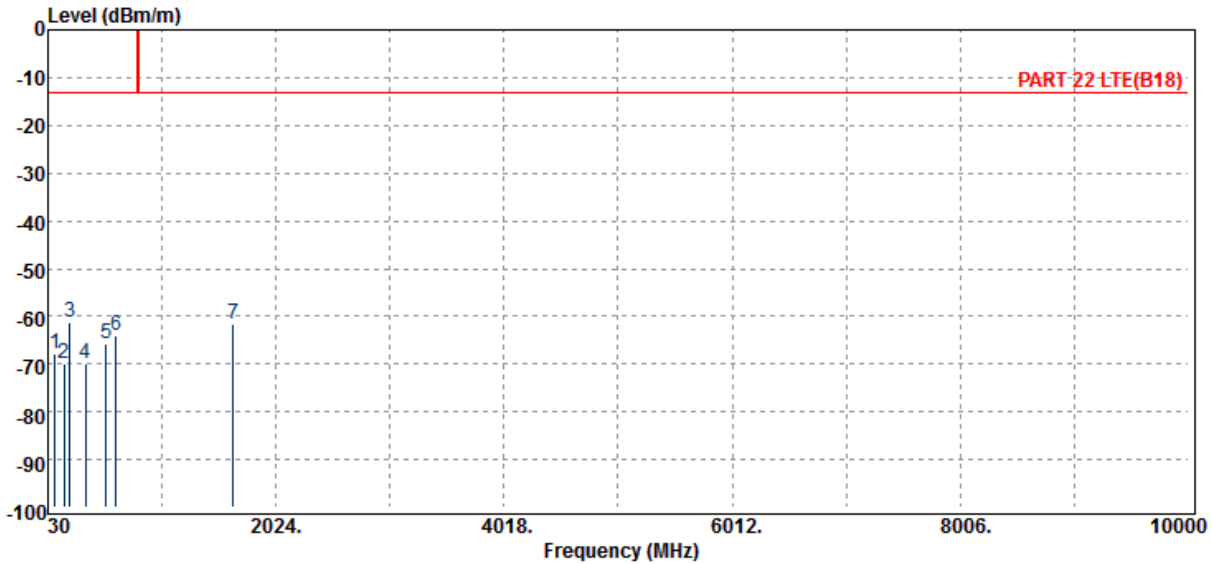
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Operation Band :LTE B18
Fundamental Frequency :826.5 MHz
Operation Mode :TX LOW
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
90.14	S	Peak	0.00	-67.86	-67.86	-13.00	-54.86
168.71	S	Peak	-0.01	-70.02	-70.03	-13.00	-57.03
219.15	S	Peak	0.00	-61.18	-61.18	-13.00	-48.18
361.74	S	Peak	0.00	-69.89	-69.89	-13.00	-56.89
539.25	S	Peak	0.01	-65.92	-65.91	-13.00	-52.91
624.61	S	Peak	0.00	-63.88	-63.88	-13.00	-50.88
1653.00	H	Peak	0.01	-61.68	-61.67	-13.00	-48.67

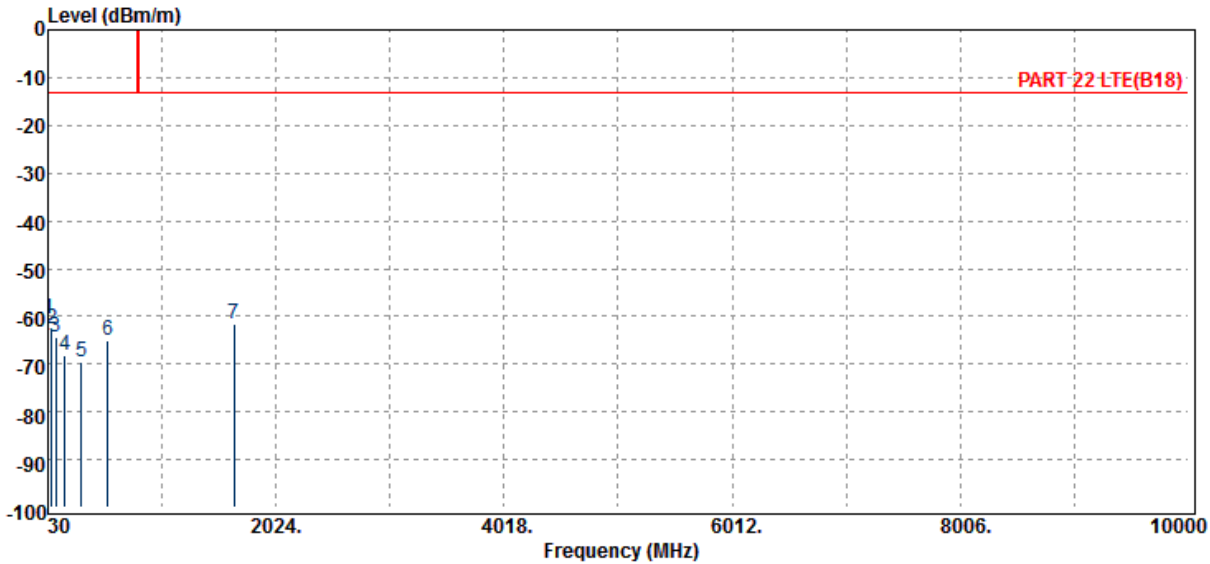
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Operation Band :LTE B18
Fundamental Frequency :827 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
34.85	S	Peak	0.00	-60.66	-60.66	-13.00	-47.66
59.10	S	Peak	-0.01	-62.68	-62.69	-13.00	-49.69
95.96	S	Peak	0.00	-64.40	-64.40	-13.00	-51.40
175.50	S	Peak	-0.01	-68.31	-68.32	-13.00	-55.32
323.91	S	Peak	0.00	-69.47	-69.47	-13.00	-56.47
550.89	S	Peak	0.00	-64.93	-64.93	-13.00	-51.93
1654.00	H	Peak	-0.01	-61.50	-61.51	-13.00	-48.51

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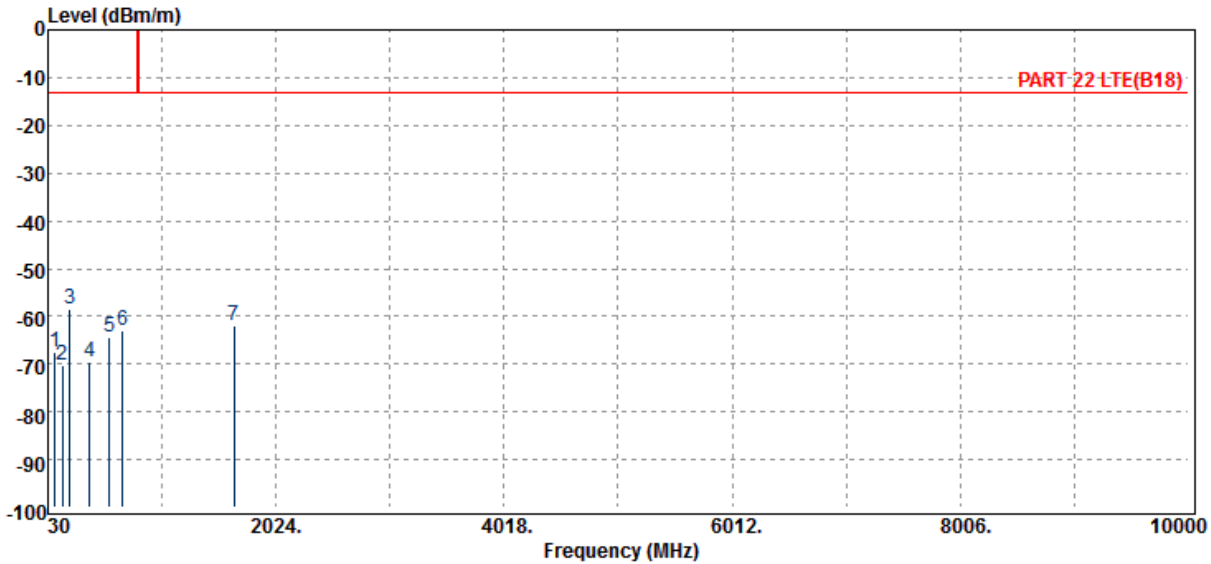
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Operation Band :LTE B18
Fundamental Frequency :827 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
90.14	S	Peak	0.00	-67.64	-67.64	-13.00	-54.64
159.01	S	Peak	-0.01	-70.38	-70.39	-13.00	-57.39
219.15	S	Peak	0.01	-58.60	-58.59	-13.00	-45.59
390.84	S	Peak	0.00	-69.64	-69.64	-13.00	-56.64
570.29	S	Peak	0.00	-64.38	-64.38	-13.00	-51.38
684.75	S	Peak	-0.01	-63.13	-63.14	-13.00	-50.14
1654.00	H	Peak	-0.01	-61.81	-61.82	-13.00	-48.82

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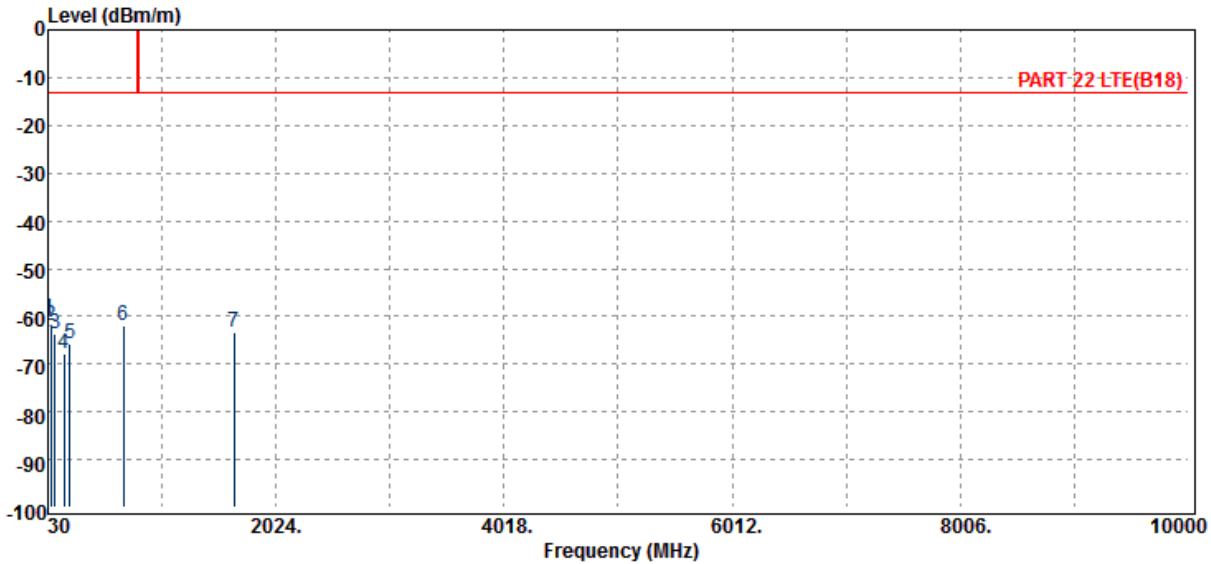
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Operation Band :LTE B18
Fundamental Frequency :827.5 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
36.79	S	Peak	0.01	-60.67	-60.66	-13.00	-47.66
56.19	S	Peak	0.01	-62.06	-62.05	-13.00	-49.05
90.14	S	Peak	0.00	-63.68	-63.68	-13.00	-50.68
168.71	S	Peak	-0.01	-67.94	-67.95	-13.00	-54.95
219.15	S	Peak	0.01	-65.61	-65.60	-13.00	-52.60
689.60	S	Peak	0.00	-61.90	-61.90	-13.00	-48.90
1655.00	H	Peak	0.01	-63.19	-63.18	-13.00	-50.18

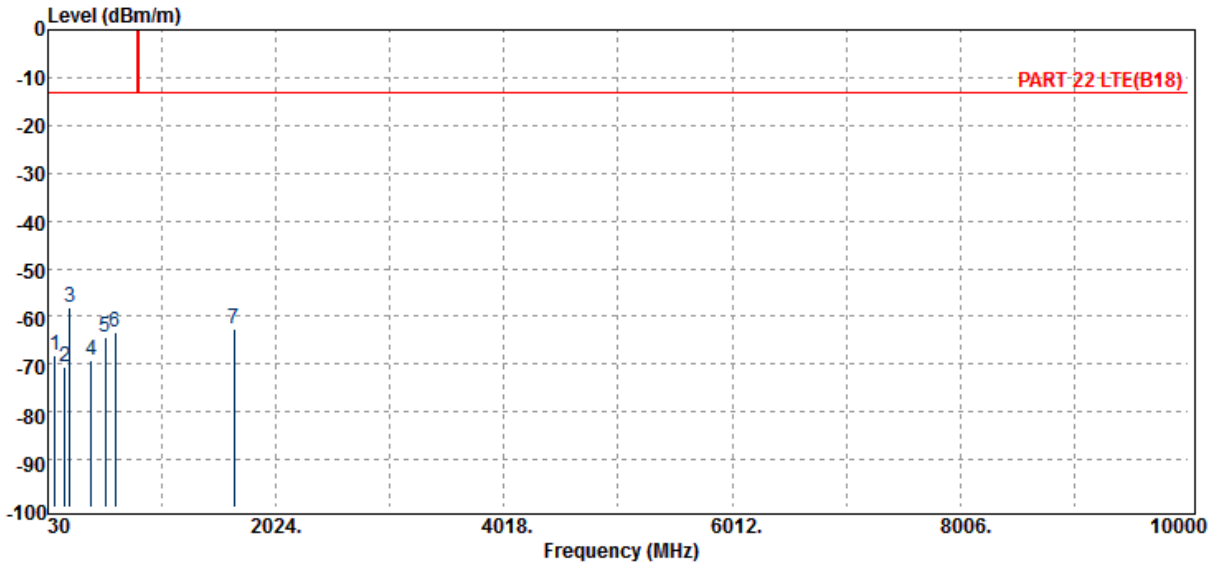
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Operation Band :LTE B18
Fundamental Frequency :827.5 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
90.14	S	Peak	0.00	-68.25	-68.25	-13.00	-55.25
180.35	S	Peak	0.00	-70.68	-70.68	-13.00	-57.68
221.09	S	Peak	0.01	-58.12	-58.11	-13.00	-45.11
405.39	S	Peak	0.00	-69.05	-69.05	-13.00	-56.05
529.55	S	Peak	0.00	-64.43	-64.43	-13.00	-51.43
618.79	S	Peak	0.01	-63.41	-63.40	-13.00	-50.40
1655.00	H	Peak	0.01	-62.71	-62.70	-13.00	-49.70

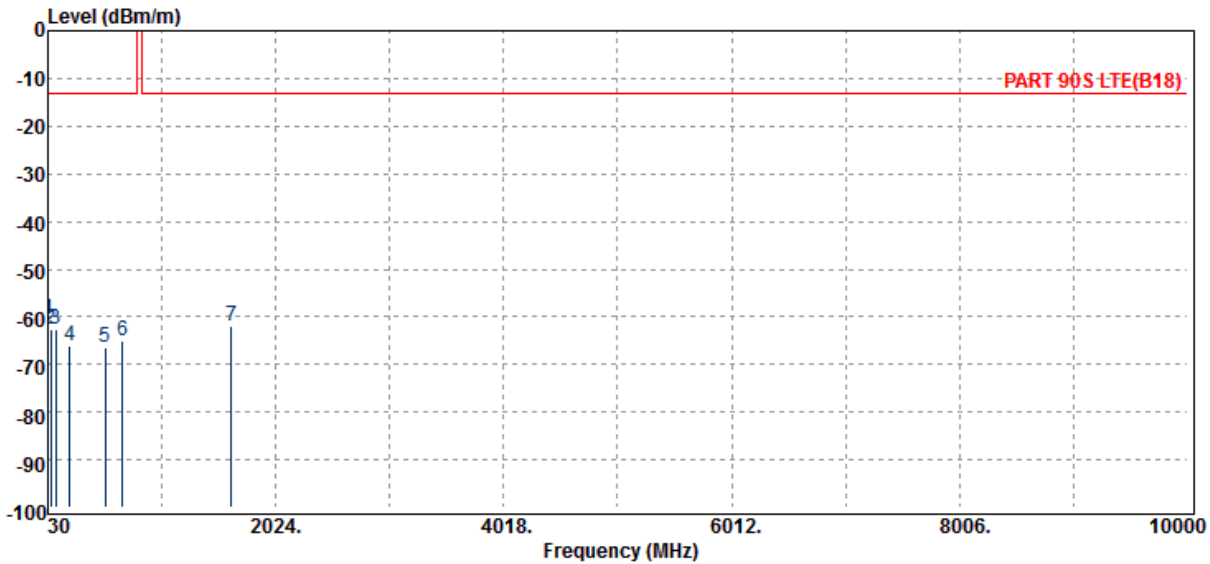
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Radiated Spurious Emission Measurement Result: LTE Band 18 (Part 90S)

Operation Band	:LTE B18	Test Date	:2017-11-29
Fundamental Frequency	:817.5 MHz	Temp./Humi.	:22.1 deg_C / 68 RH
Operation Mode	:TX LOW	Engineer	:Kane
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
34.85	S	Peak	0.00	-60.53	-60.53	-13.00	-47.53
57.16	S	Peak	0.00	-62.70	-62.70	-13.00	-49.70
95.96	S	Peak	0.00	-62.64	-62.64	-13.00	-49.64
219.15	S	Peak	0.00	-66.16	-66.16	-13.00	-53.16
531.49	S	Peak	0.00	-66.41	-66.41	-13.00	-53.41
680.87	S	Peak	0.00	-65.18	-65.18	-13.00	-52.18
1635.00	H	Peak	0.00	-61.91	-61.91	-13.00	-48.91

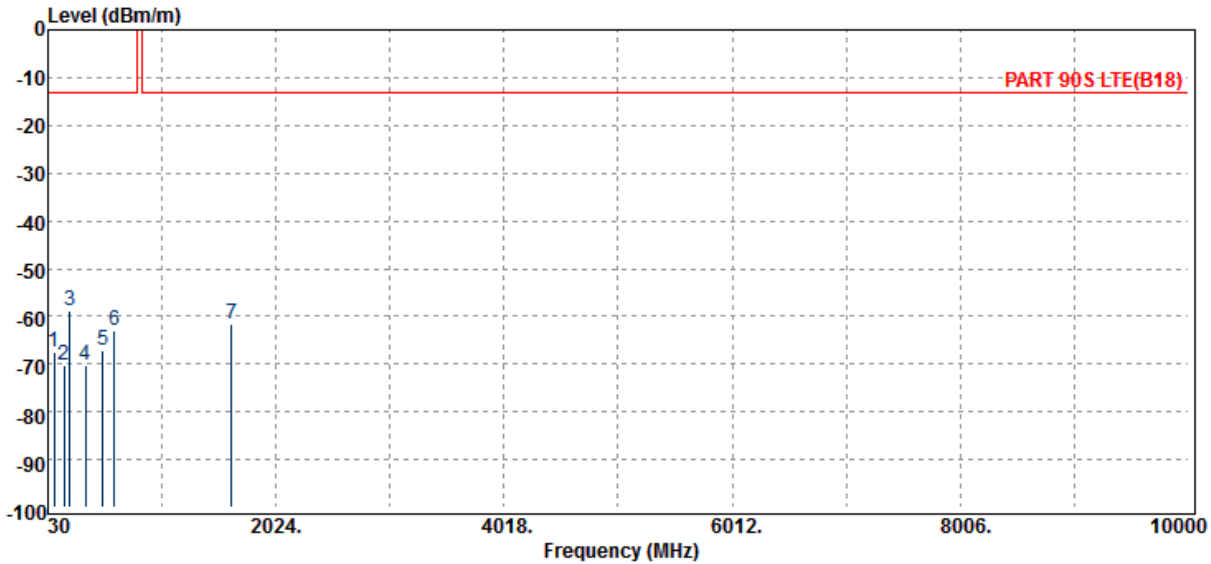
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Operation Band :LTE B18
Fundamental Frequency :817.5 MHz
Operation Mode :TX LOW
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
85.29	S	Peak	0.00	-67.44	-67.44	-13.00	-54.44
167.74	S	Peak	0.00	-70.16	-70.16	-13.00	-57.16
219.15	S	Peak	0.00	-58.75	-58.75	-13.00	-45.75
359.80	S	Peak	0.00	-70.21	-70.21	-13.00	-57.21
513.06	S	Peak	-0.01	-67.18	-67.19	-13.00	-54.19
612.00	S	Peak	0.00	-63.09	-63.09	-13.00	-50.09
1635.00	H	Peak	-0.01	-61.42	-61.43	-13.00	-48.43

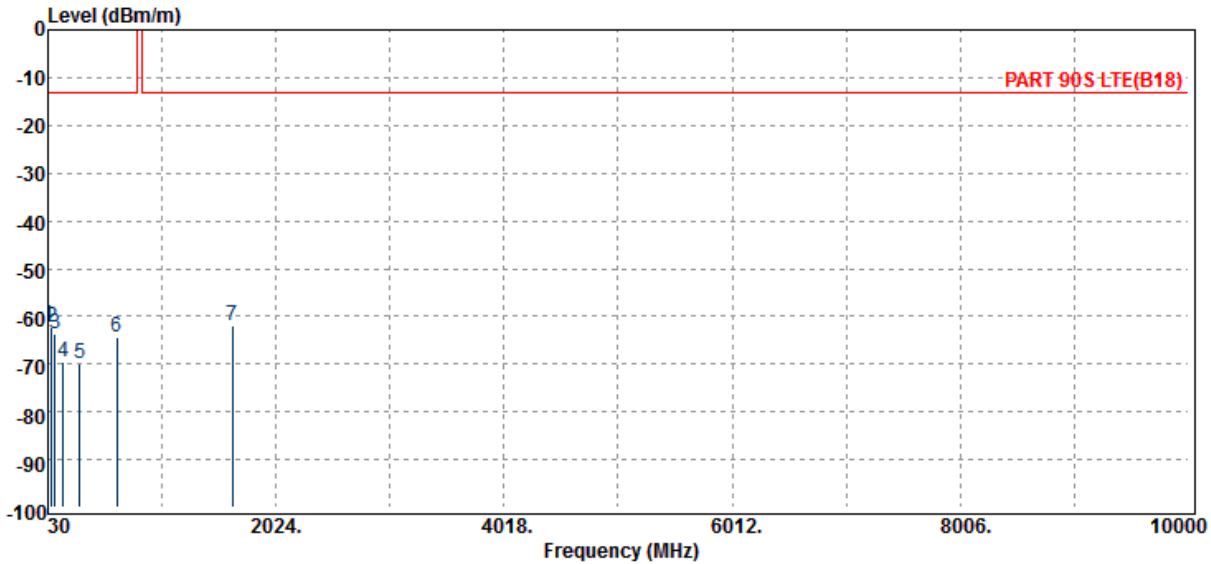
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Operation Band :LTE B18
Fundamental Frequency :819.5 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
34.85	S	Peak	0.00	-61.78	-61.78	-13.00	-48.78
59.10	S	Peak	0.00	-62.17	-62.17	-13.00	-49.17
90.14	S	Peak	0.00	-63.72	-63.72	-13.00	-50.72
160.95	S	Peak	0.01	-69.70	-69.69	-13.00	-56.69
308.39	S	Peak	0.00	-70.05	-70.05	-13.00	-57.05
634.31	S	Peak	-0.01	-64.19	-64.20	-13.00	-51.20
1639.00	H	Peak	0.00	-61.89	-61.89	-13.00	-48.89

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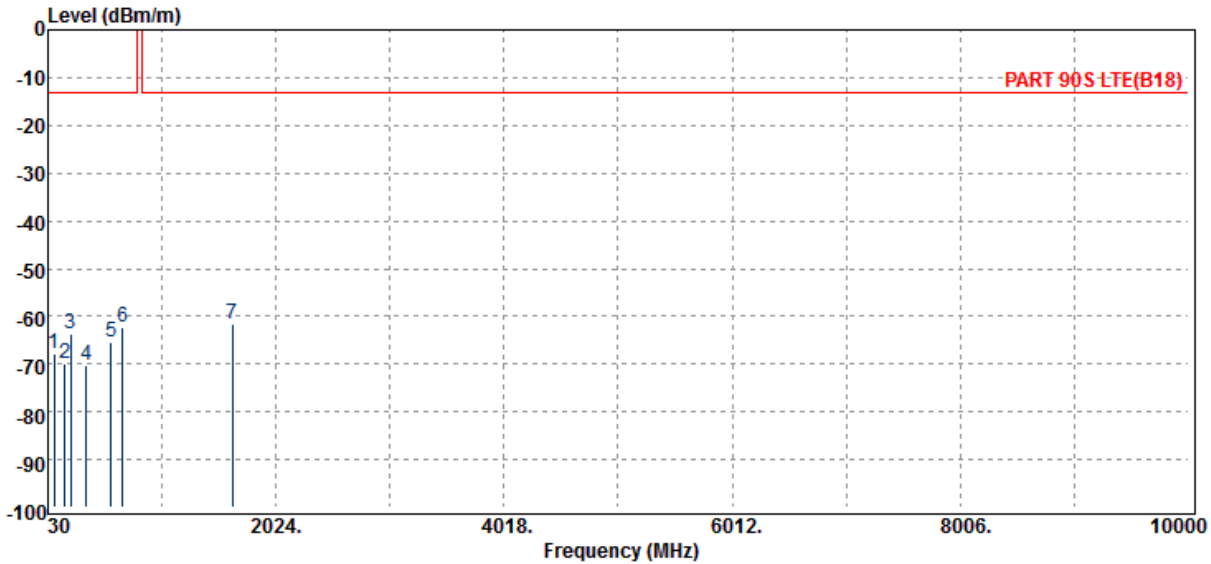
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Operation Band :LTE B18
Fundamental Frequency :819.5 MHz
Operation Mode :TX MID
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
85.29	S	Peak	0.00	-67.95	-67.95	-13.00	-54.95
179.38	S	Peak	0.00	-69.90	-69.90	-13.00	-56.90
224.97	S	Peak	0.01	-63.56	-63.55	-13.00	-50.55
367.56	S	Peak	-0.01	-70.32	-70.33	-13.00	-57.33
580.96	S	Peak	0.01	-65.45	-65.44	-13.00	-52.44
684.75	S	Peak	-0.01	-62.20	-62.21	-13.00	-49.21
1639.00	H	Peak	0.01	-61.48	-61.47	-13.00	-48.47

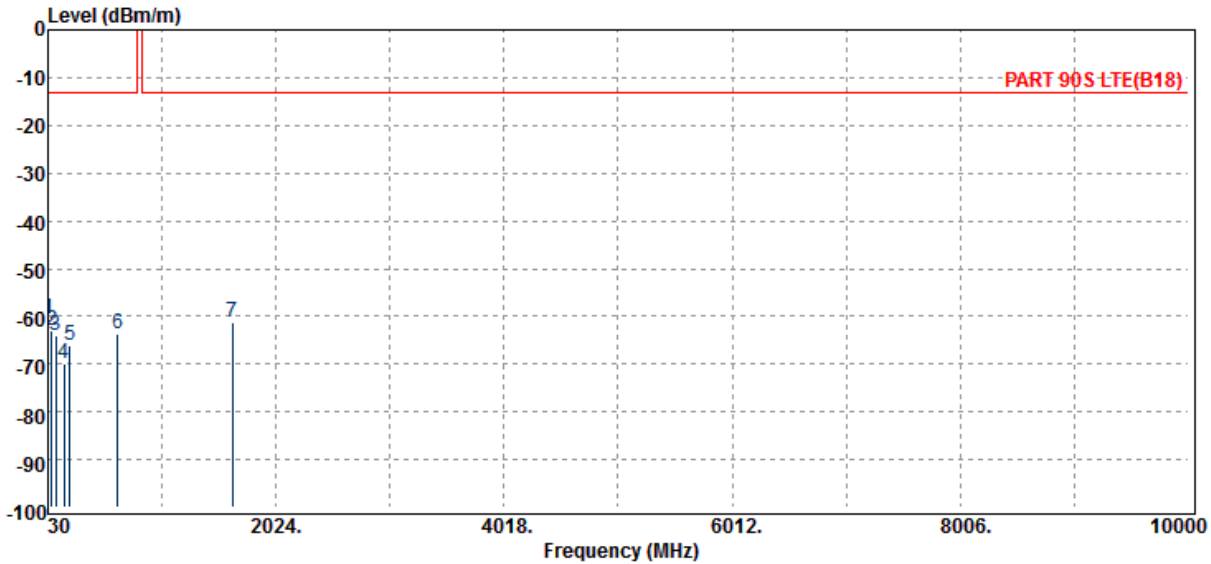
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Operation Band :LTE B18
Fundamental Frequency :821.5 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :VERTICAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
36.79	S	Peak	0.00	-60.41	-60.41	-13.00	-47.41
59.10	S	Peak	0.00	-62.98	-62.98	-13.00	-49.98
95.96	S	Peak	0.00	-64.17	-64.17	-13.00	-51.17
173.56	S	Peak	0.00	-69.99	-69.99	-13.00	-56.99
219.15	S	Peak	0.00	-66.03	-66.03	-13.00	-53.03
636.25	S	Peak	0.00	-63.56	-63.56	-13.00	-50.56
1643.00	H	Peak	-0.01	-61.38	-61.39	-13.00	-48.39

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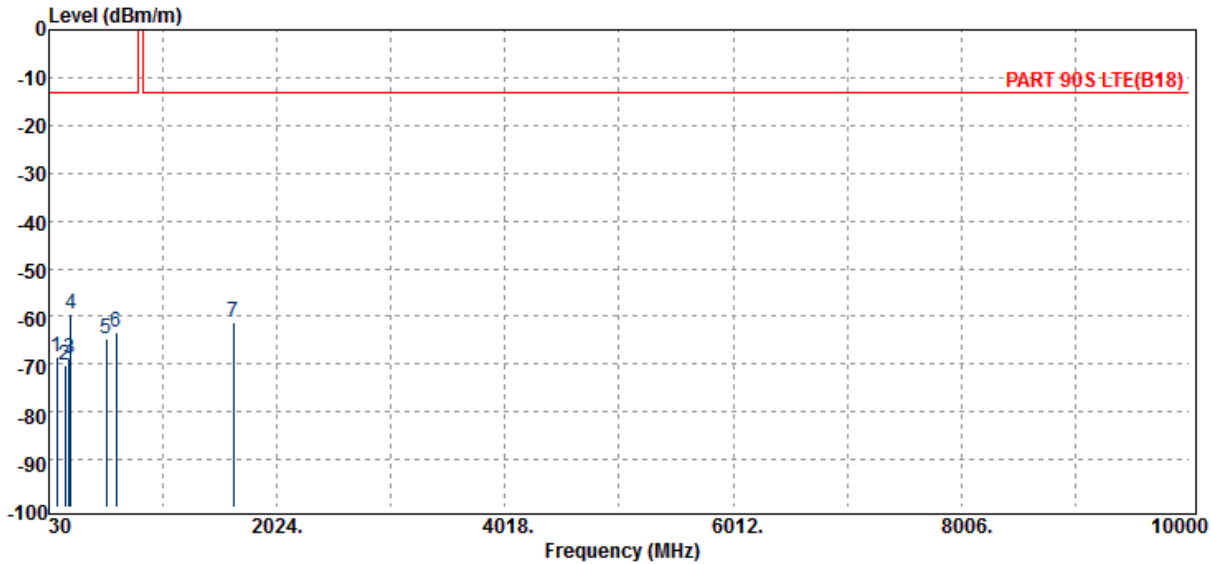
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Operation Band :LTE B18
Fundamental Frequency :821.5 MHz
Operation Mode :TX HIGH
EUT Pol. :H Plane

Test Date :2017-11-29
Temp./Humi. :22.1 deg_C / 68 RH
Engineer :Kane
Measurement Antenna Pol. :HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Safe Margin dB
94.99	S	Peak	0.00	-68.44	-68.44	-13.00	-55.44
167.74	S	Peak	0.00	-70.17	-70.17	-13.00	-57.17
207.51	S	Peak	0.00	-68.84	-68.84	-13.00	-55.84
219.15	S	Peak	0.01	-59.37	-59.36	-13.00	-46.36
529.55	S	Peak	-0.01	-64.68	-64.69	-13.00	-51.69
618.79	S	Peak	0.00	-63.42	-63.42	-13.00	-50.42
1643.00	H	Peak	0.00	-61.27	-61.27	-13.00	-48.27

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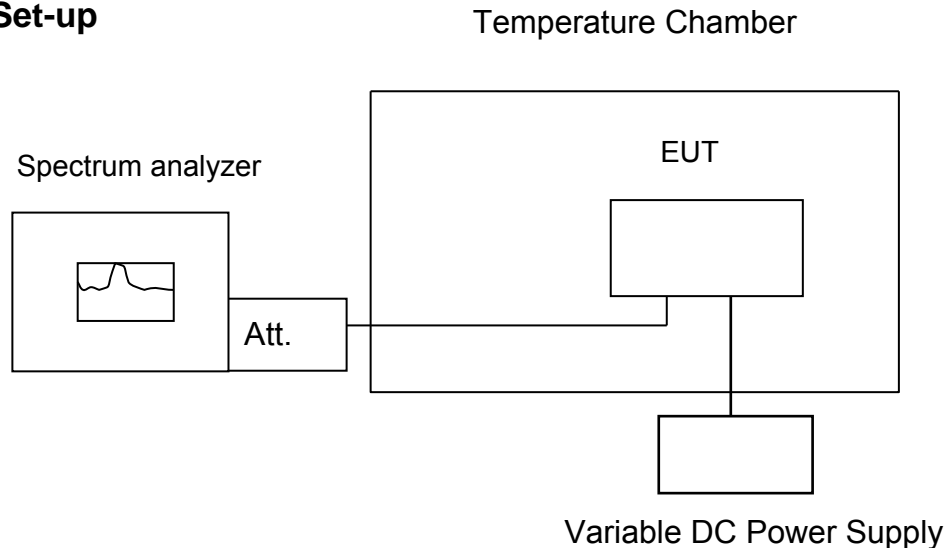
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11. FREQUENCY STABILITY MEASUREMENT

11.1. Standard Applicable

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

11.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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11.3. 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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11.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HU-BER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/03/2017	01/02/2018

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11.5. Measurement Result

Reference Freq.:		LTE B14 Mid Channel		793 MHz 10M QPSK CH 23330	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.5	25	793.0000029	-1.15	4700	
3.82	25	793.000004	0	4700	
3.6	25	792.999996	-8	4700	
3.2 (End Point)	25	792.999998	-6	4700	
Freq. ERROR vs. Temp.					
3.82	-30	792.9999974	-7.03	4700	
3.82	-20	793.0000062	1.75	4700	
3.82	-10	793.0000095	5.12	4700	
3.82	0	792.9999942	-10.25	4700	
3.82	10	793.0000065	2.08	4700	
3.82	20	793.0000044	0	4700	
3.82	30	793.0000069	2.43	4700	
3.82	40	792.9999914	-13.04	4700	
3.82	50	793.0000029	-1.49	4700	

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Reference Freq.:		LTE B18 Mid (Part 22) Channel		827MHz 5M QPSK CH 23970	
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)	
Freq. ERROR vs. VOLTAGE					
4.5	25	827.0000029	1.53	2091	
3.82	25	827.0000014	0	2091	
3.6	25	826.9999973	-4.06	2091	
3.2 (End Point)	25	827.0000037	2.31	2091	
Freq. ERROR vs. Temp.					
3.82	-30	827.0000135	2.18	2091	
3.82	-20	826.9999929	-18.45	2091	
3.82	-10	827.0000147	3.36	2091	
3.82	0	827.0000113	-0.05	2091	
3.82	10	826.9999974	-13.93	2091	
3.82	20	827.0000114	0	2091	
3.82	30	826.9999979	-13.5	2091	
3.82	40	827.0000104	-0.98	2091	
3.82	50	826.9999907	-20.65	2091	

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Reference Freq.:	LTE B18 Mid (Part 90S) Channel		819.5MHz	5M QPSK CH 23895
Power Supply Vdc	Temp. (°C)	Freq. (MHz)	Delta (Hz)	Limit = +/- 2.5 ppm (Hz)
Freq. ERROR vs. VOLTAGE				
4.5	25	819.5000045	1.3	1769
3.82	25	819.5000032	0	1769
3.6	25	819.5000046	1.34	1769
3.2 (End Point)	25	819.5000016	-1.59	1769
Freq. ERROR vs. Temp.				
3.82	-30	819.5000083	6.73	1769
3.82	-20	819.4999902	-11.3	1769
3.82	-10	819.4999955	-6.01	1769
3.82	0	819.5000141	12.61	1769
3.82	10	819.49999	-11.56	1769
3.82	20	819.5000015	0	1769
3.82	30	819.5000016	0.08	1769
3.82	40	819.499992	-9.49	1769
3.82	50	819.5000132	11.63	1769

Note: The battery is rated 3.82V dc.

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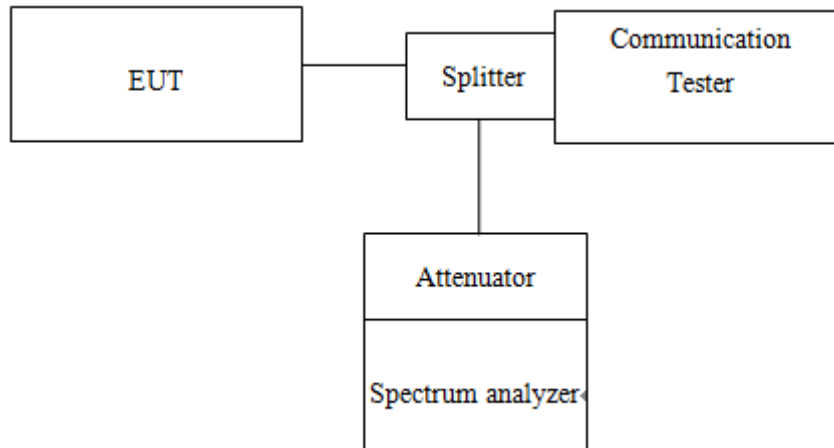
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12. PEAK TO AVERAGE RATIO

12.1. Standard Applicable

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

12.2. Test SET-UP



12.3. 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.

12.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/19/2017	05/18/2018

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12.5. Measurement Result

Tabular Results:

LTE BAND 14							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)		Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit			64QAM	Limit
790.5	23305	5.43	13	793.0	23330	5.51	13
793.0	23330	5.19	13				
795.5	23355	5.78	13				

LTE BAND 18 (Part 22)			
Channel bandwidth: 5MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit
826.5	23965	6.67	13
827	23970	6.68	13
827.5	23975	6.93	13

LTE BAND 18 (Part 90S)			
Channel bandwidth: 5MHz			
Freq. (MHz)	CH	Peak-to-Average Ratio (dB)	
		64QAM	Limit
817.5	23875	6.30	13
819.5	23895	6.61	13
821.5	23915	6.80	13

Measurement Results:

Please refer to next page.

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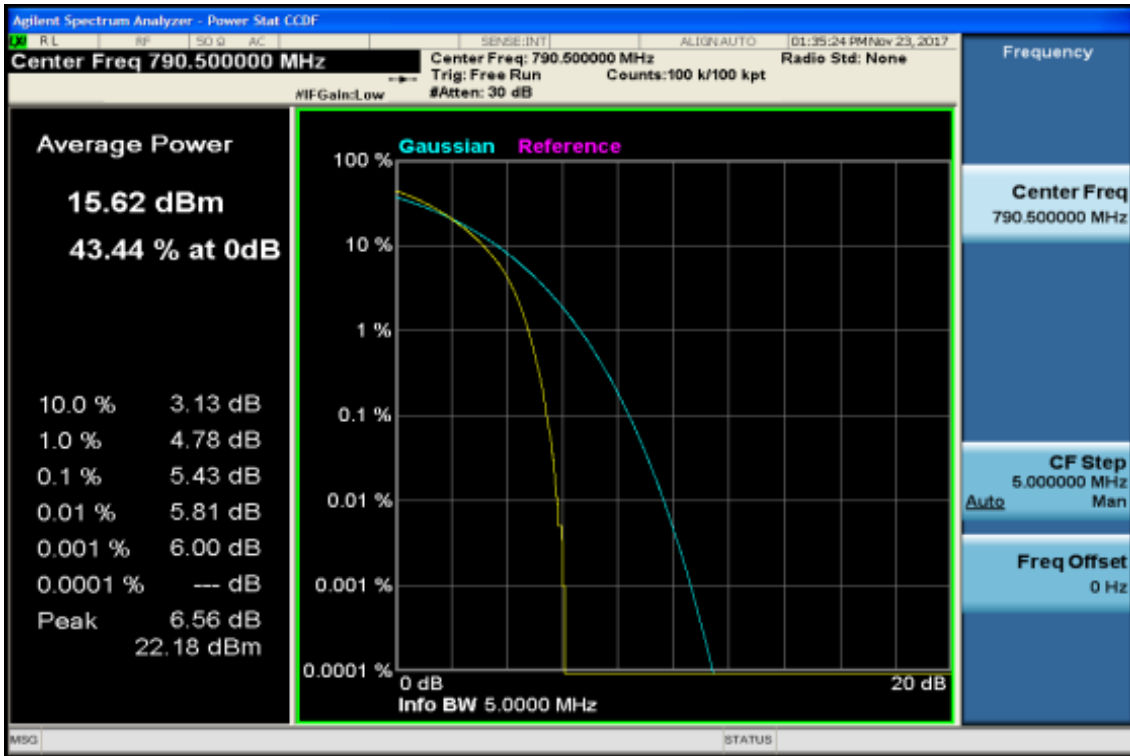
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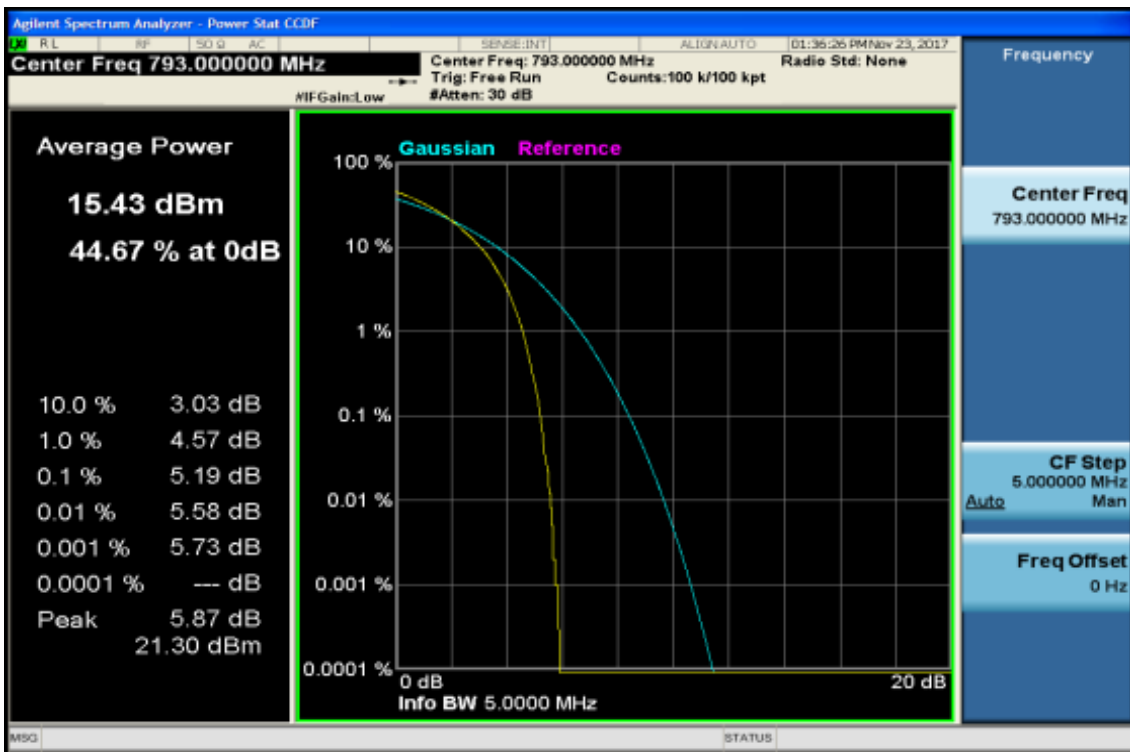
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Band14_5MHz_64QAM_25_0_Low



Band14_5MHz_64QAM_25_0_Mid



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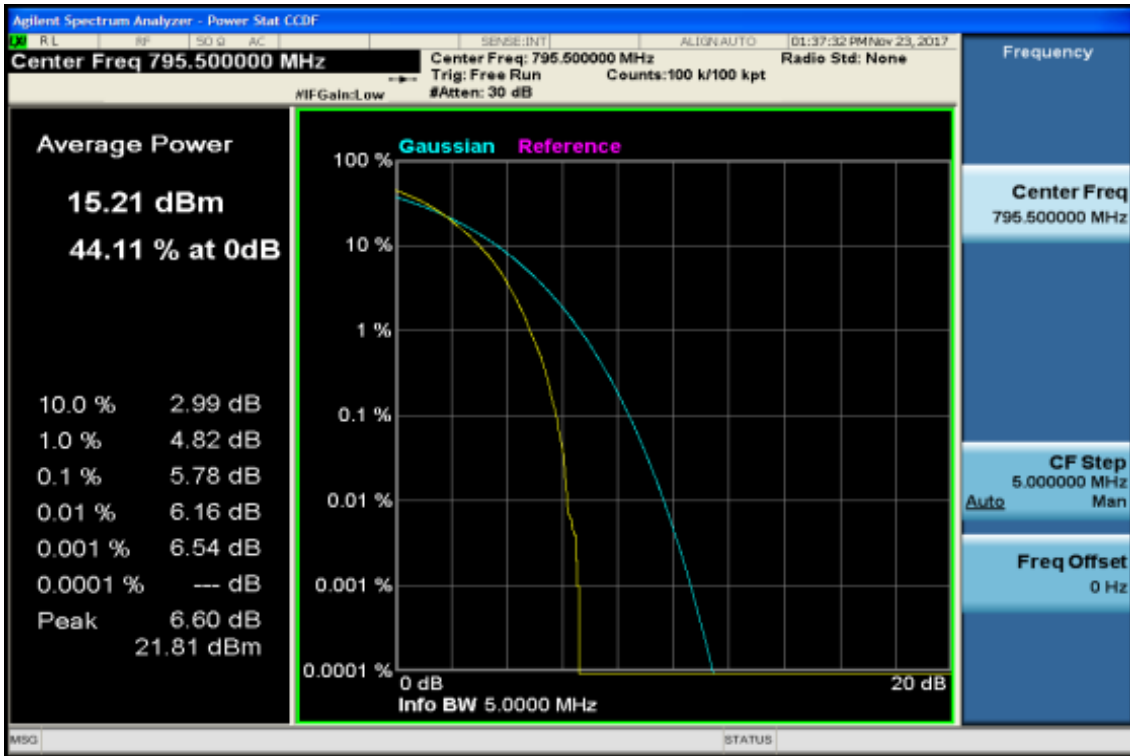
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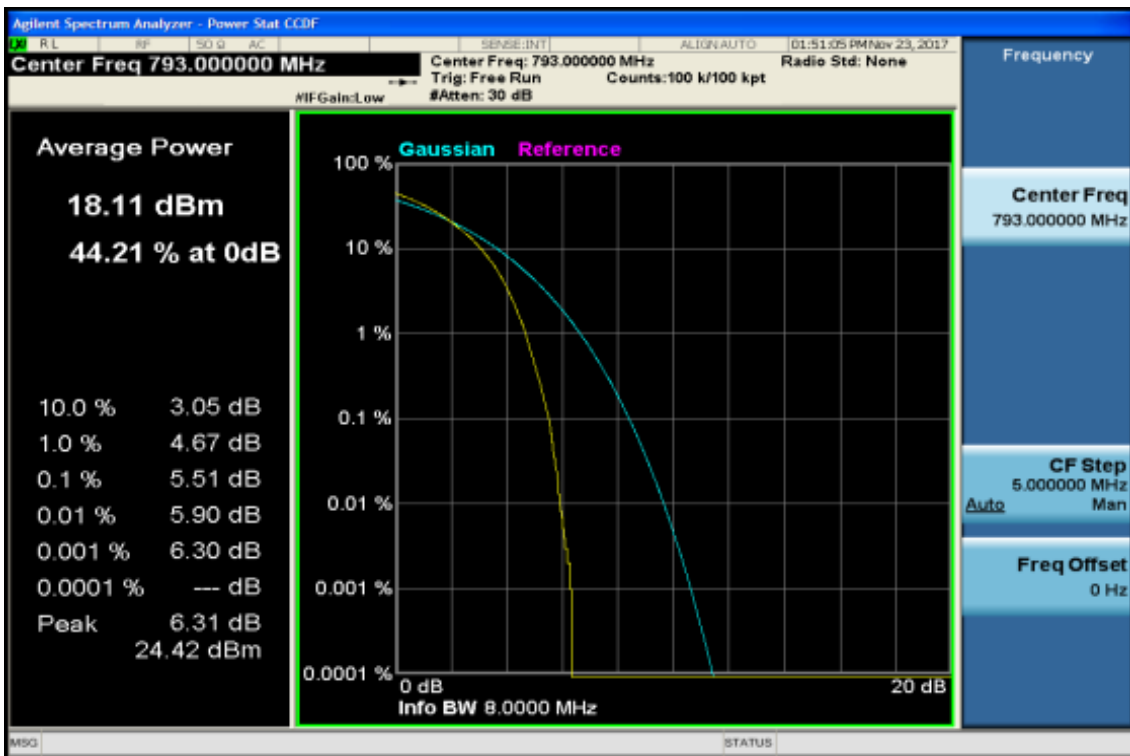
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Band14_5MHz_64QAM_25_0_High



Band14_10MHz_64QAM_50_0_Mid



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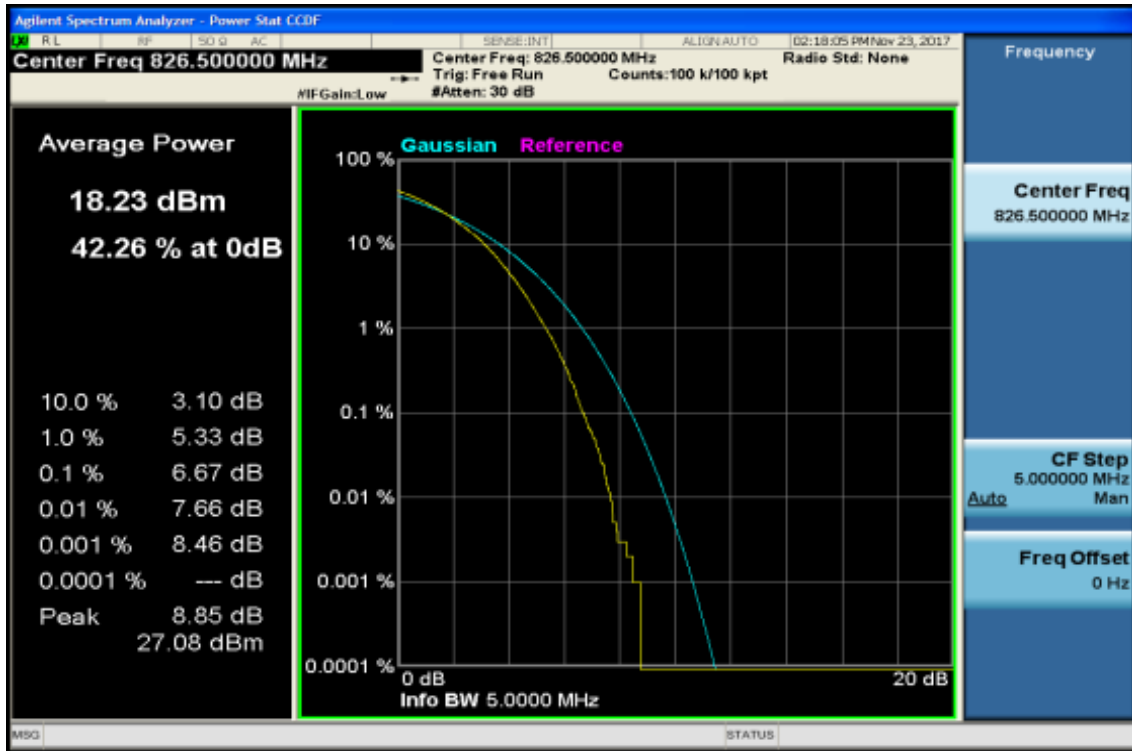
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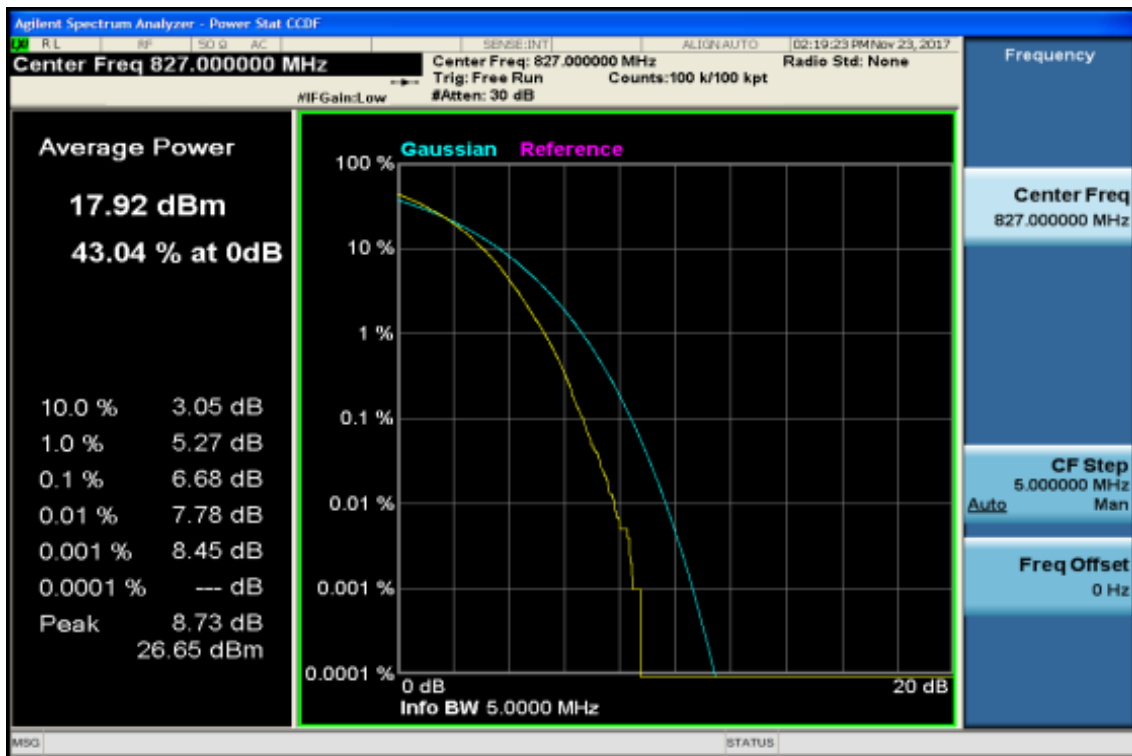
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Band18_5MHz_64QAM_25_0_Low



Band18_5MHz_64QAM_25_0_Mid



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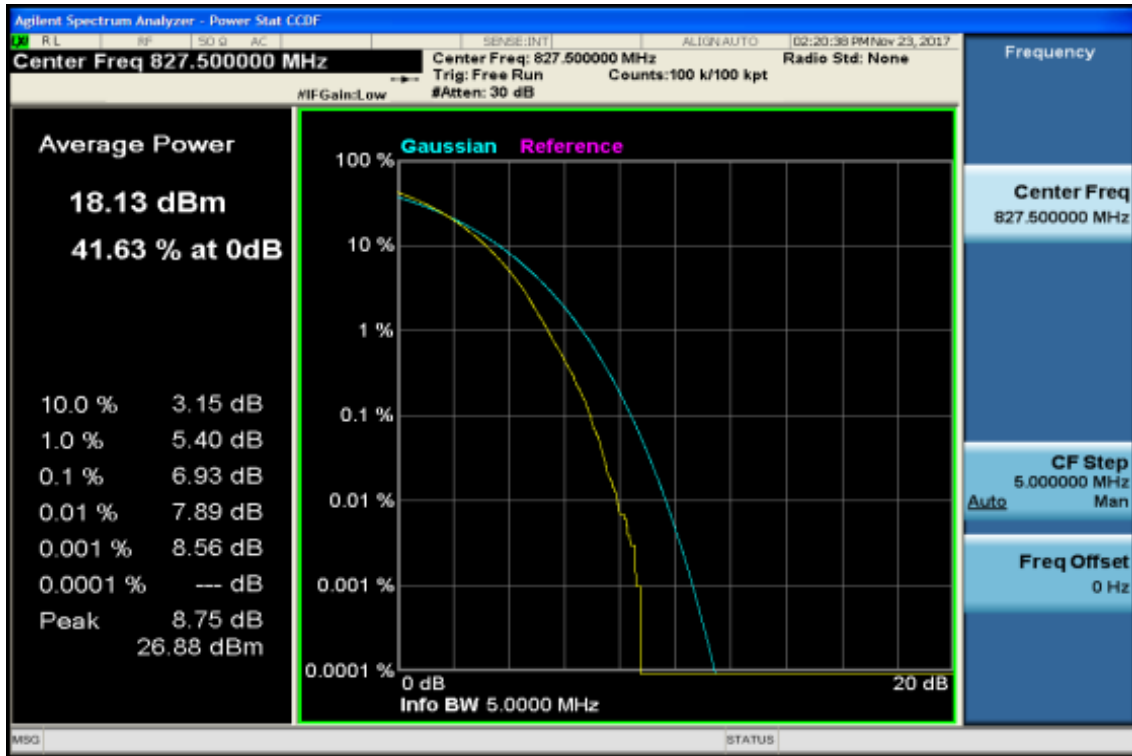
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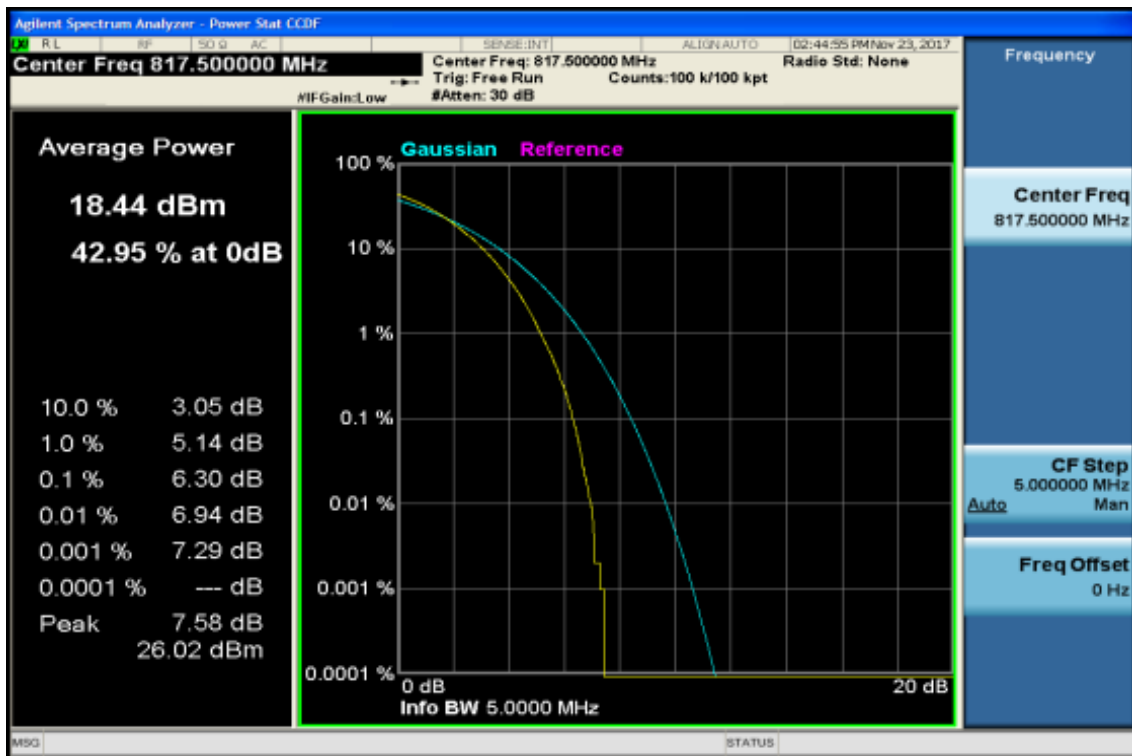
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Band18_5MHz_64QAM_25_0_High



(Part 90S) Band18_5MHz_64QAM_25_0_Low



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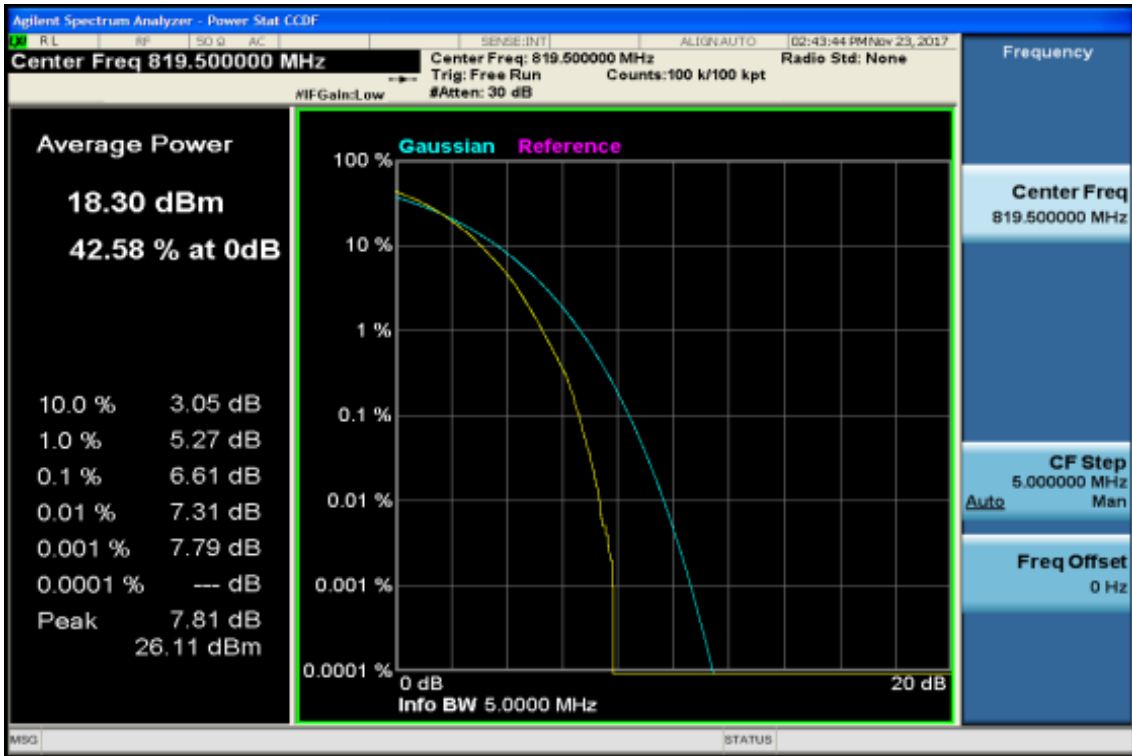
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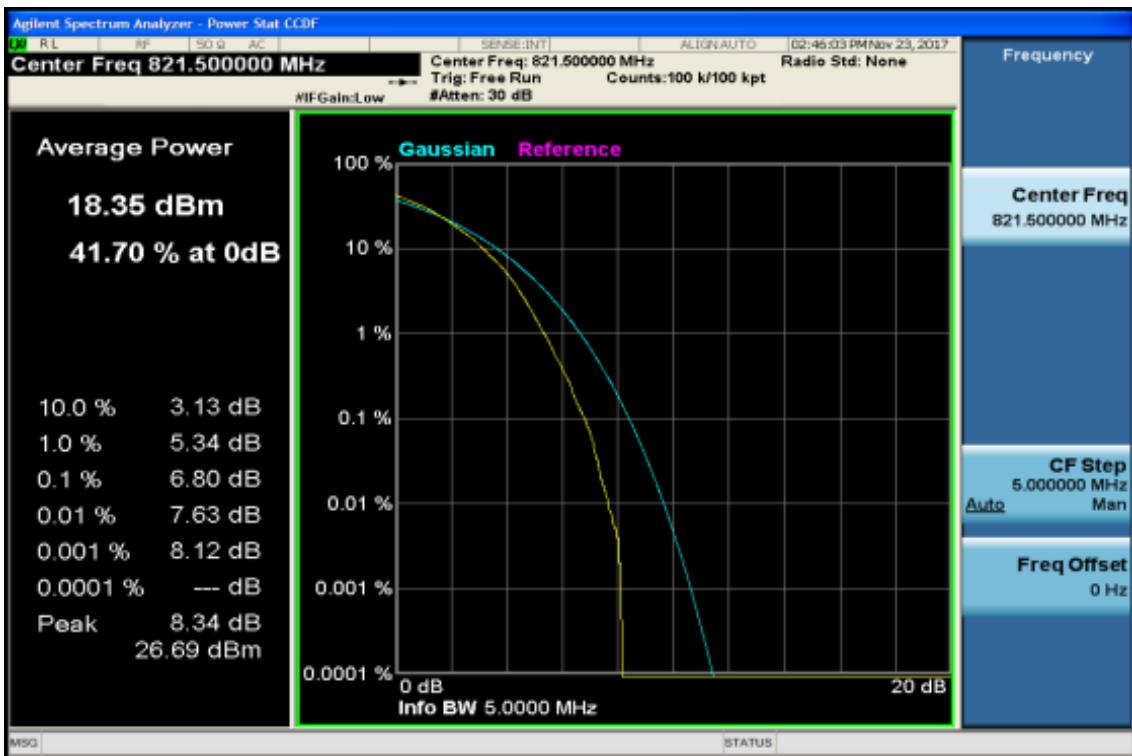
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Band18_5MHz_64QAM_25_0_Mid



Band18_5MHz_64QAM_25_0_High



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