



Report No.: T201102D09-RP16

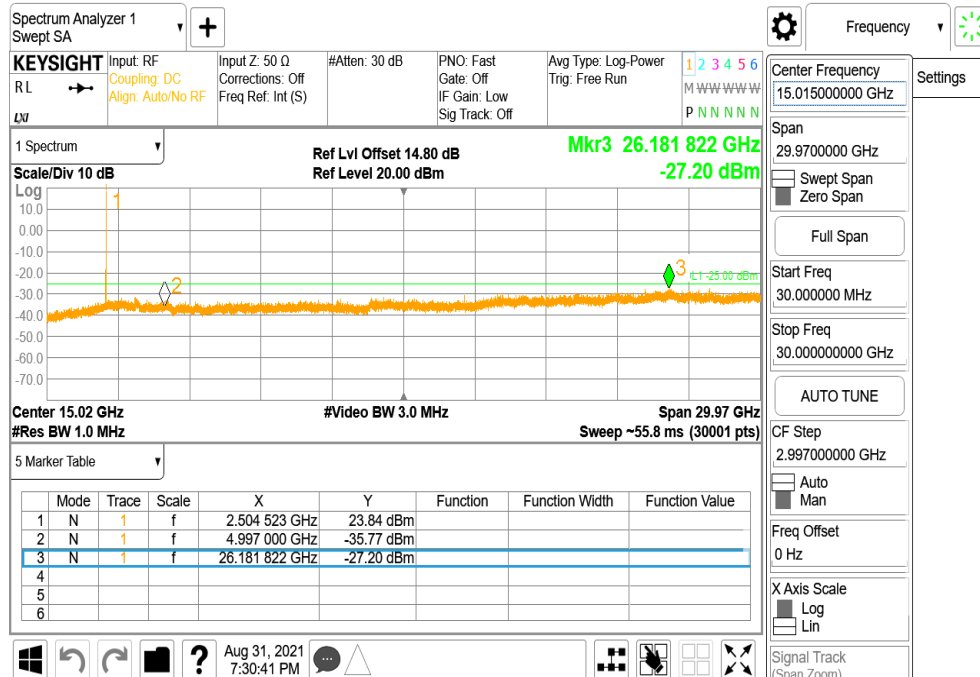
Spurious Emission

LTE Band 41

For IC low ch

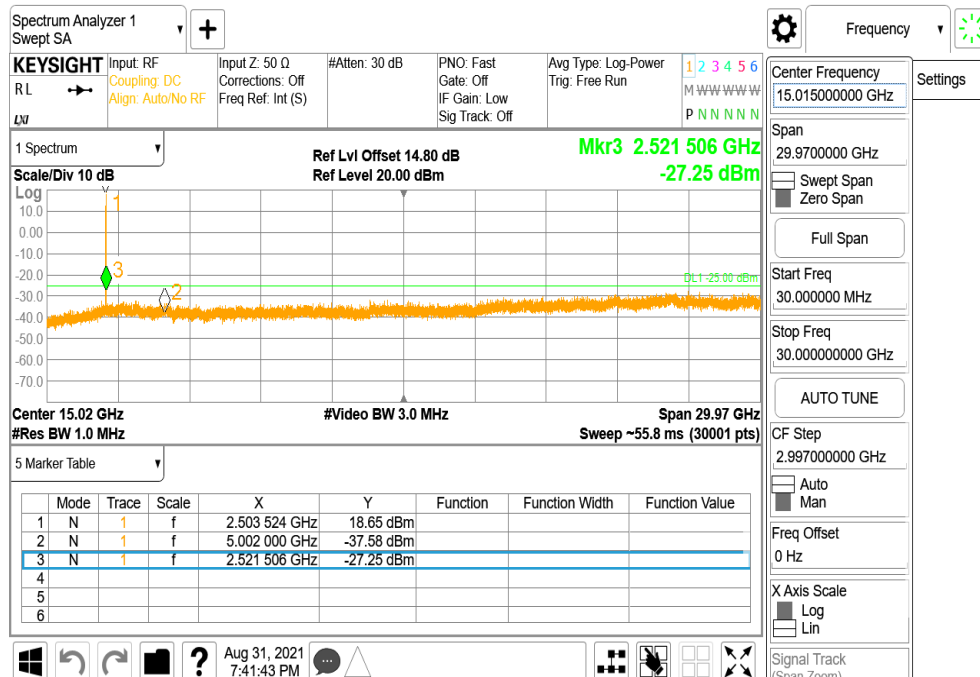
CHANNEL BANDWIDTH: 5MHz /QPSK / RB =1, RB Offset = 0

CH Low



CHANNEL BANDWIDTH: 10MHz /QPSK / RB =1, RB Offset = 0

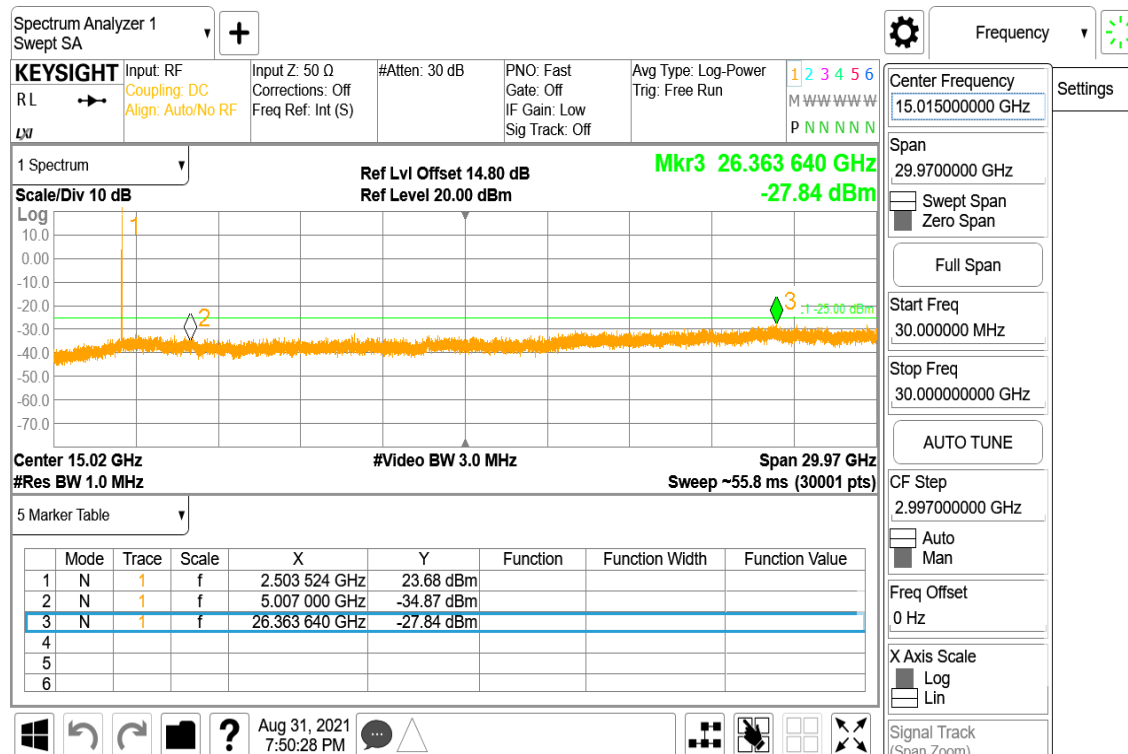
CH Low



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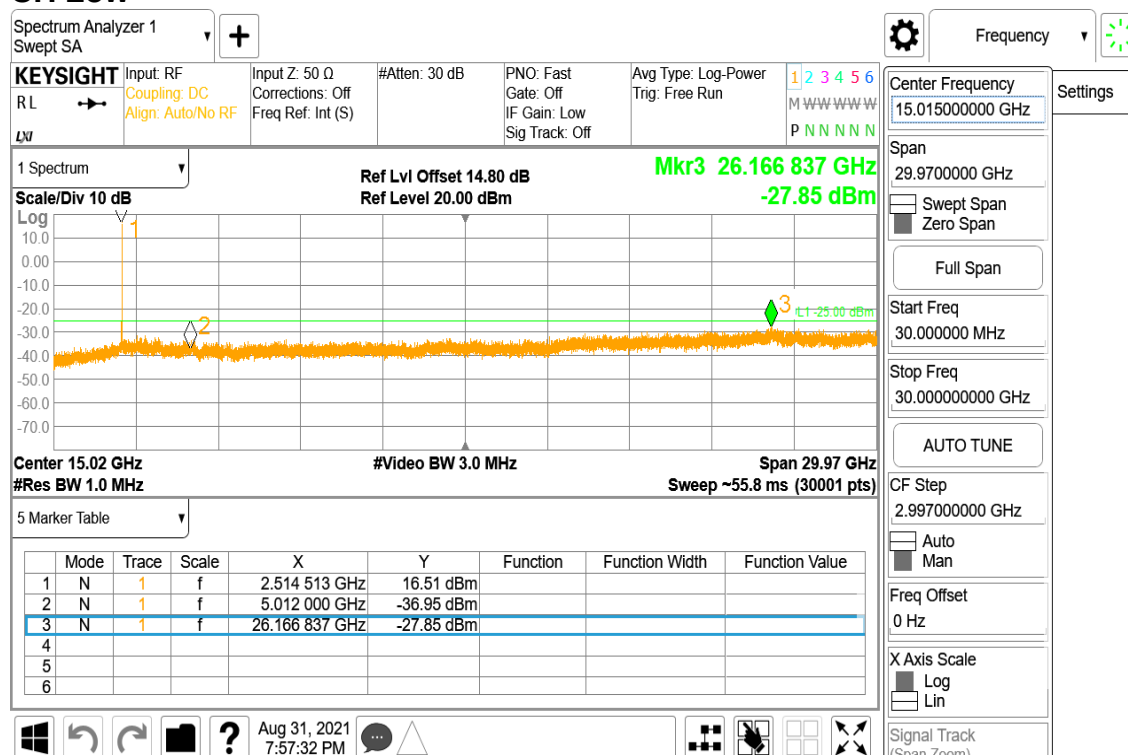
CHANNEL BANDWIDTH: 15MHz /QPSK / RB =1, RB Offset = 0

CH Low



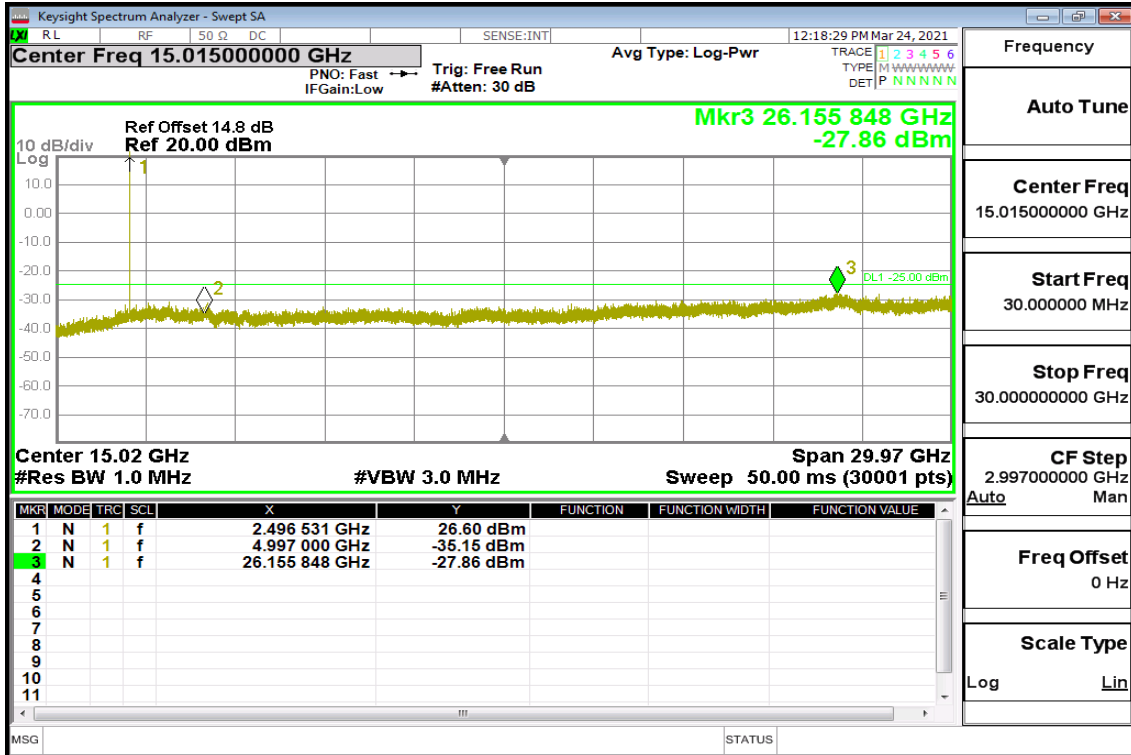
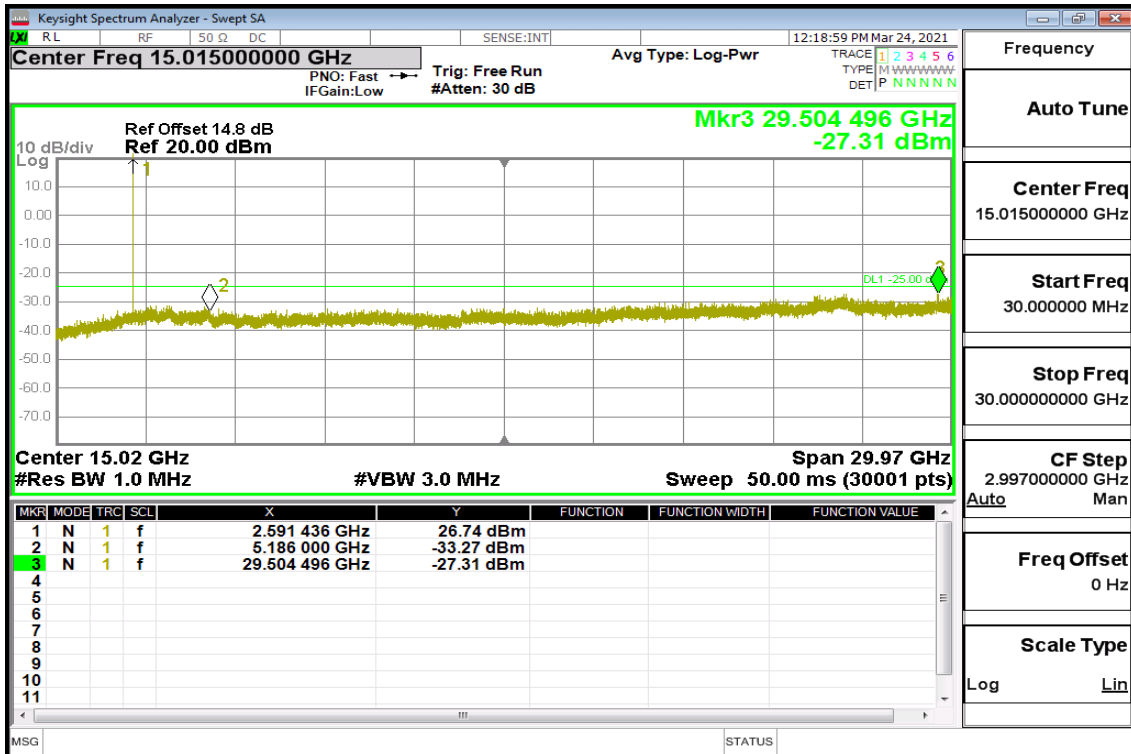
CHANNEL BANDWIDTH: 20MHz /QPSK / RB =1, RB Offset = 0

CH Low





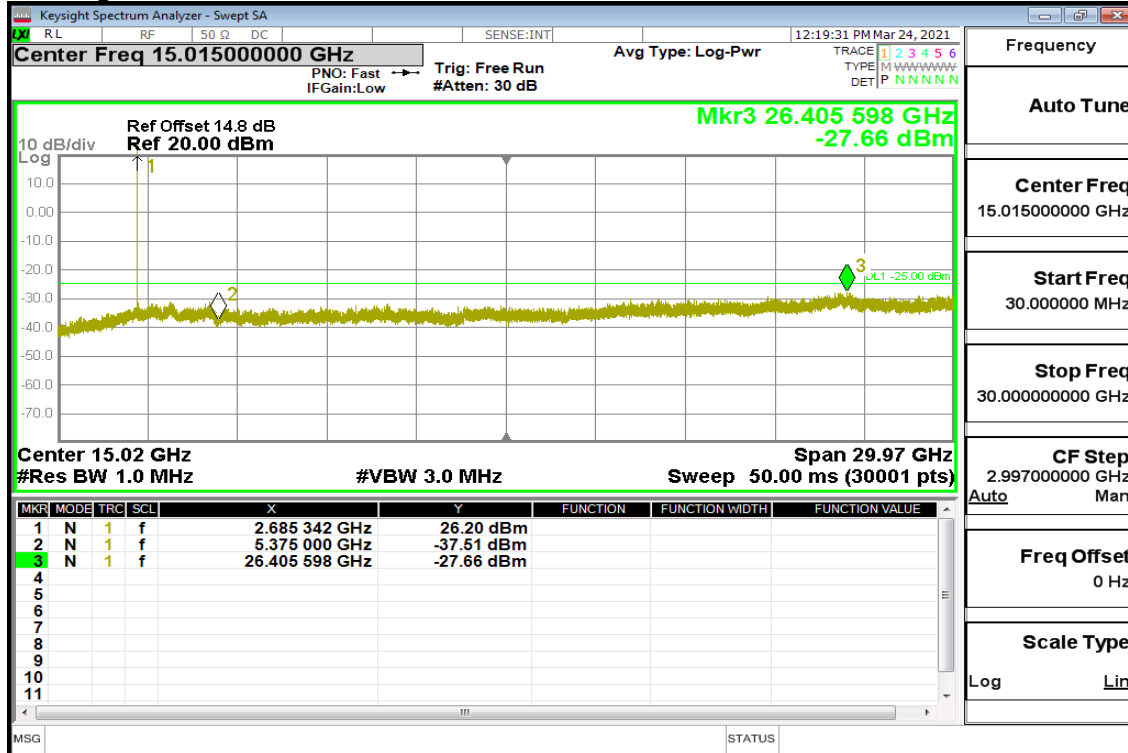
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CHANNEL BANDWIDTH: 5MHz / QPSK / RB =1, RB Offset = 0
CH Low**CH Mid**



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CH High

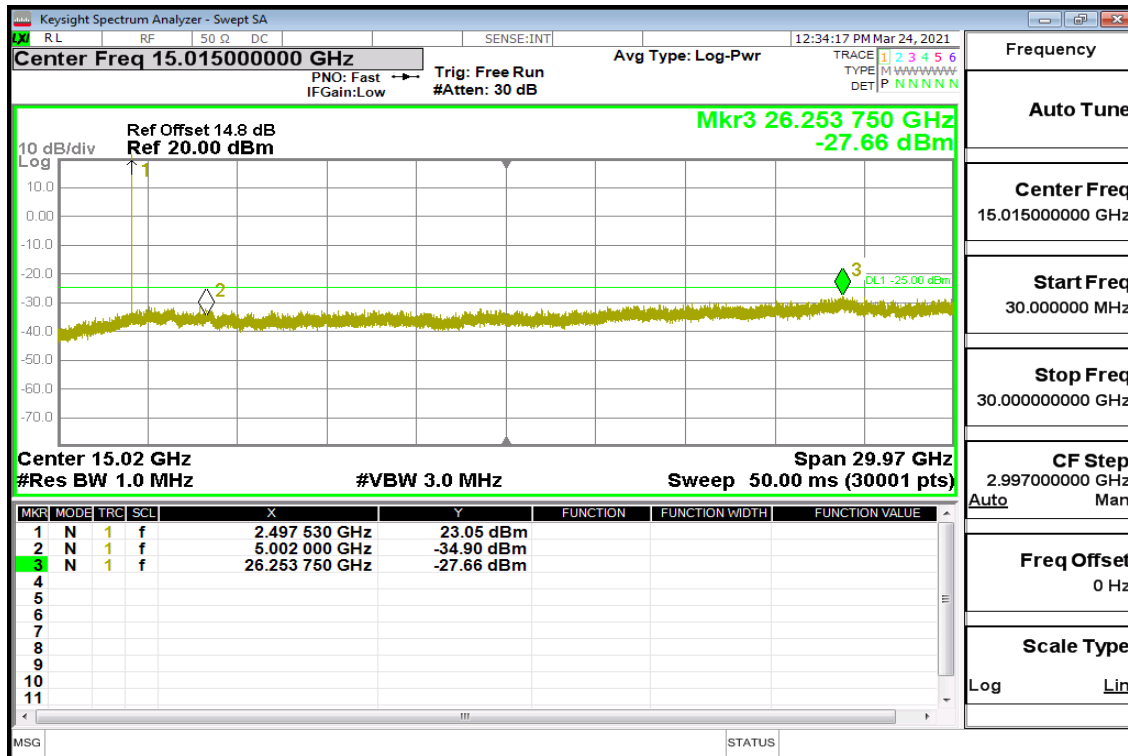




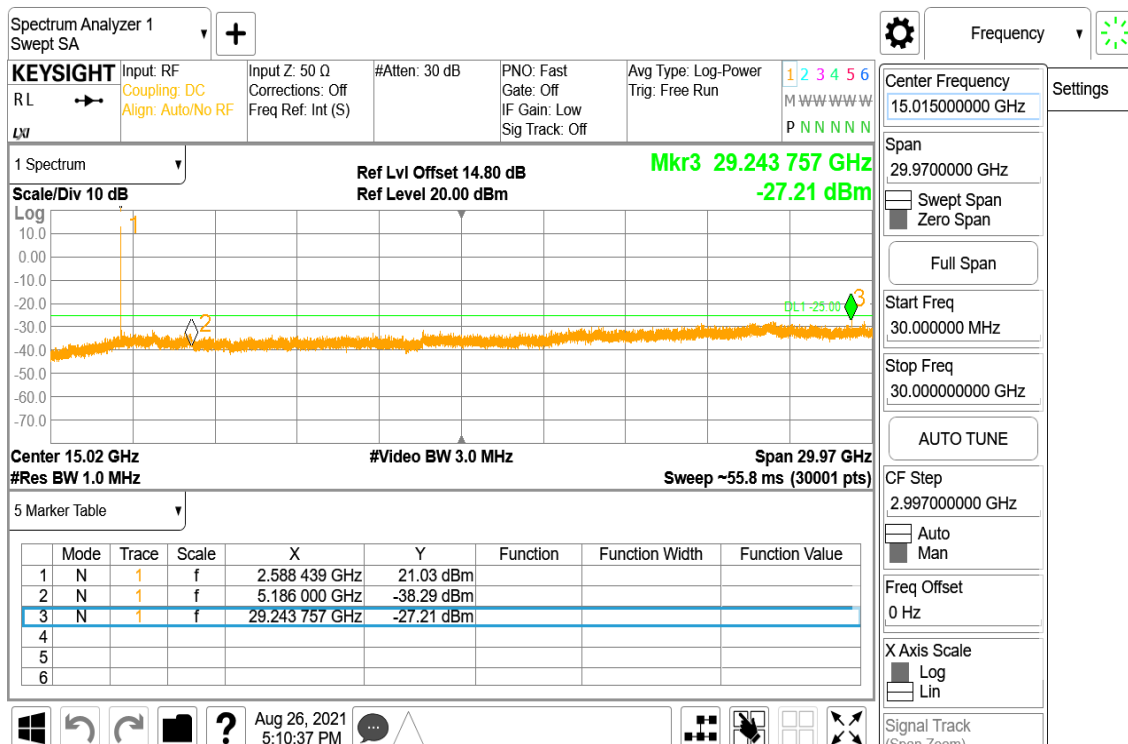
Report No.: T201102D09-RP16

CHANNEL BANDWIDTH: 10MHz /QPSK / RB =1, RB Offset = 0

CH Low



CH Mid



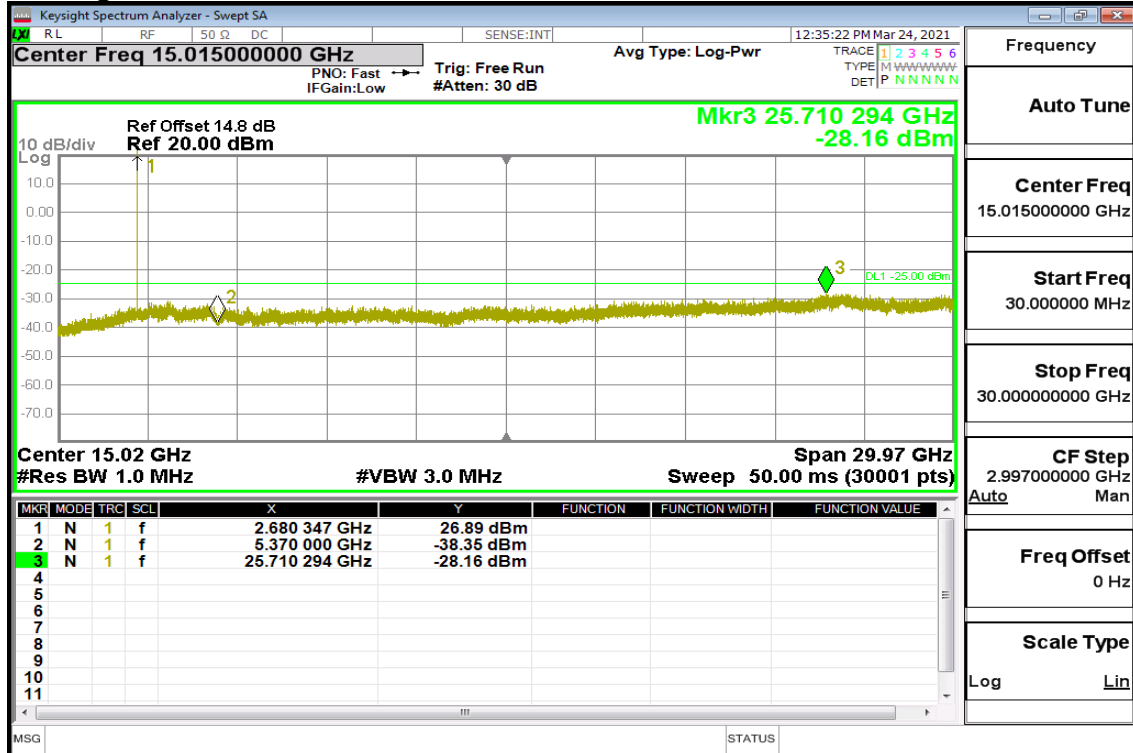


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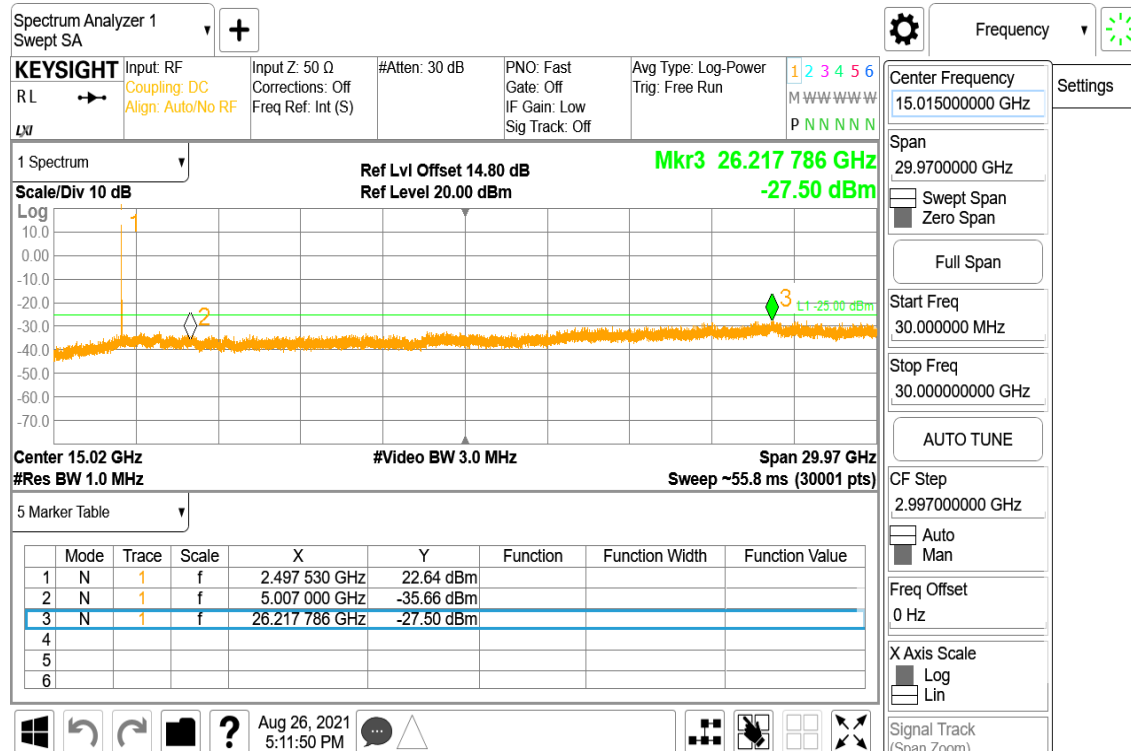
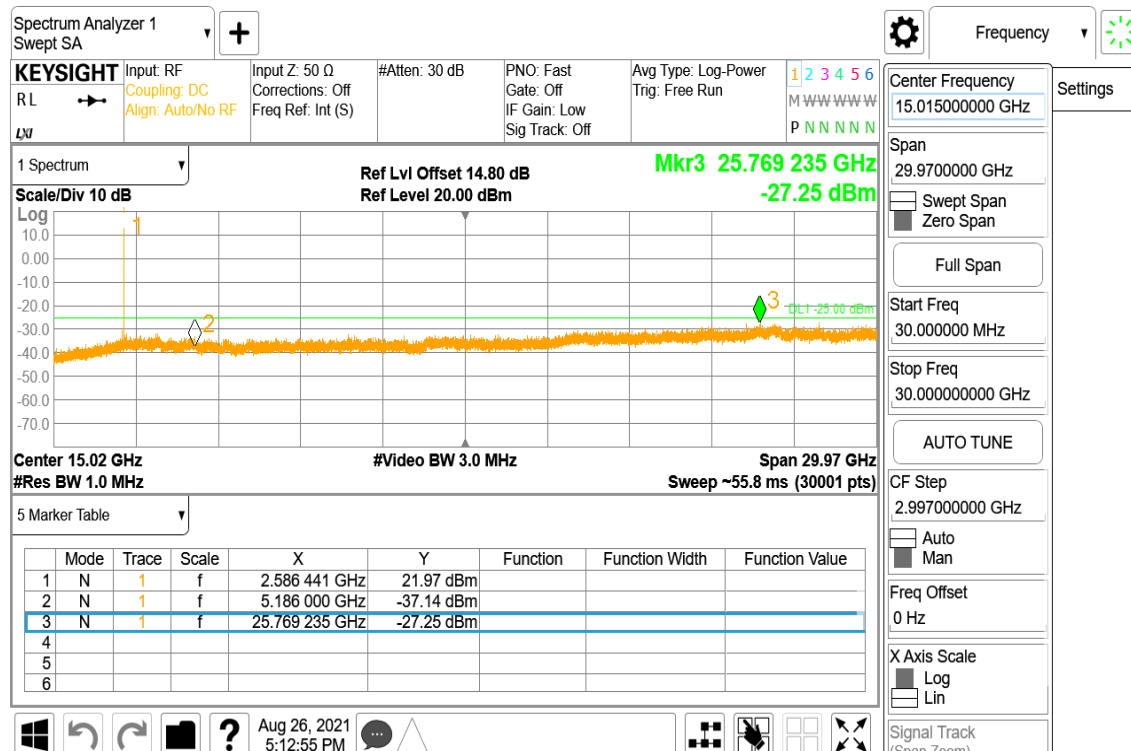
Rev.: 00

CH High





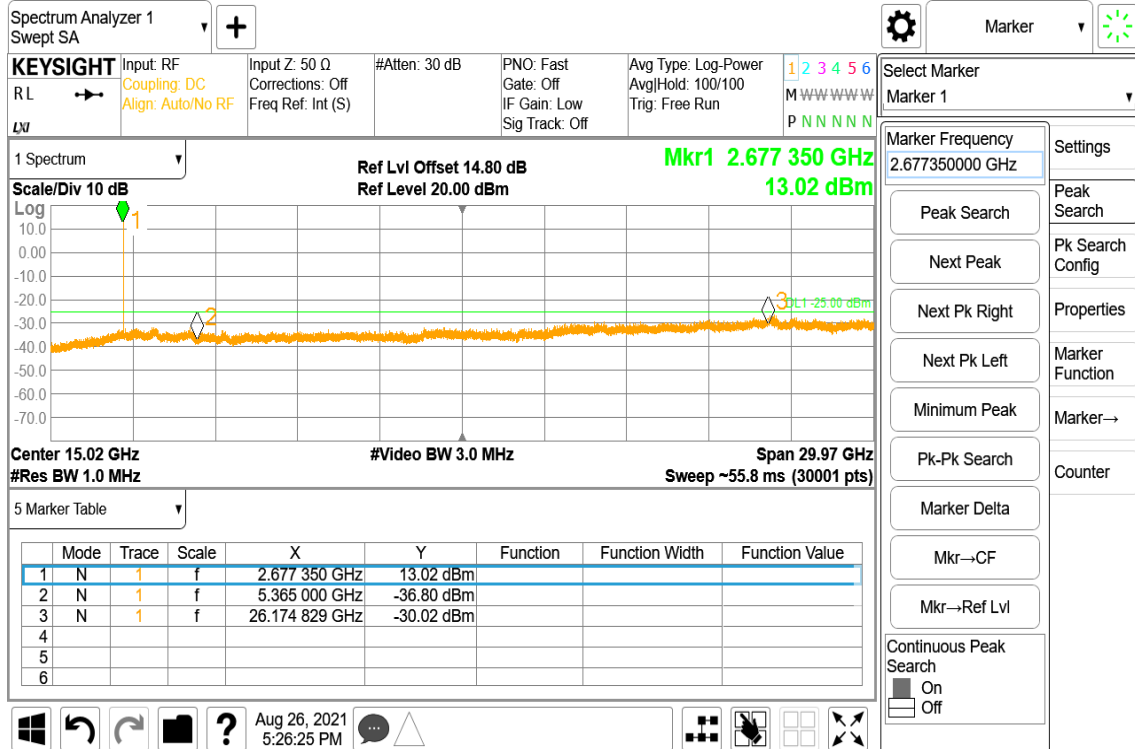
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CHANNEL BANDWIDTH: 15MHz /QPSK / RB =1, RB Offset = 0**CH Low****CH Mid**



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CH High

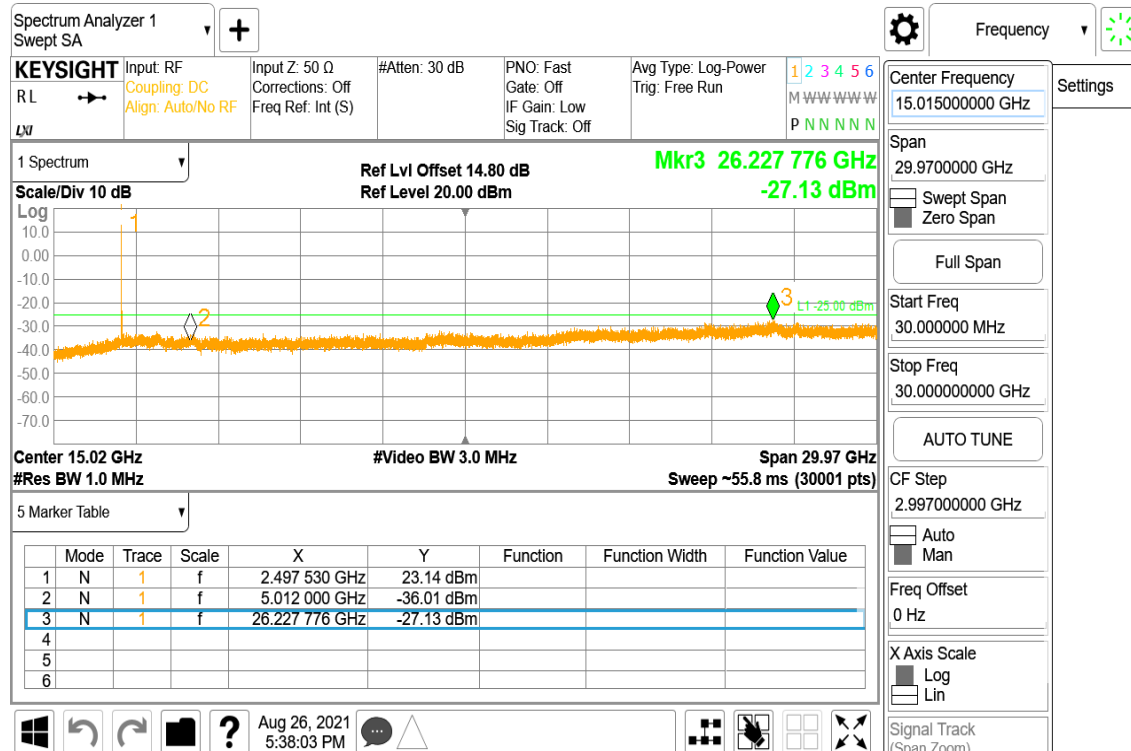




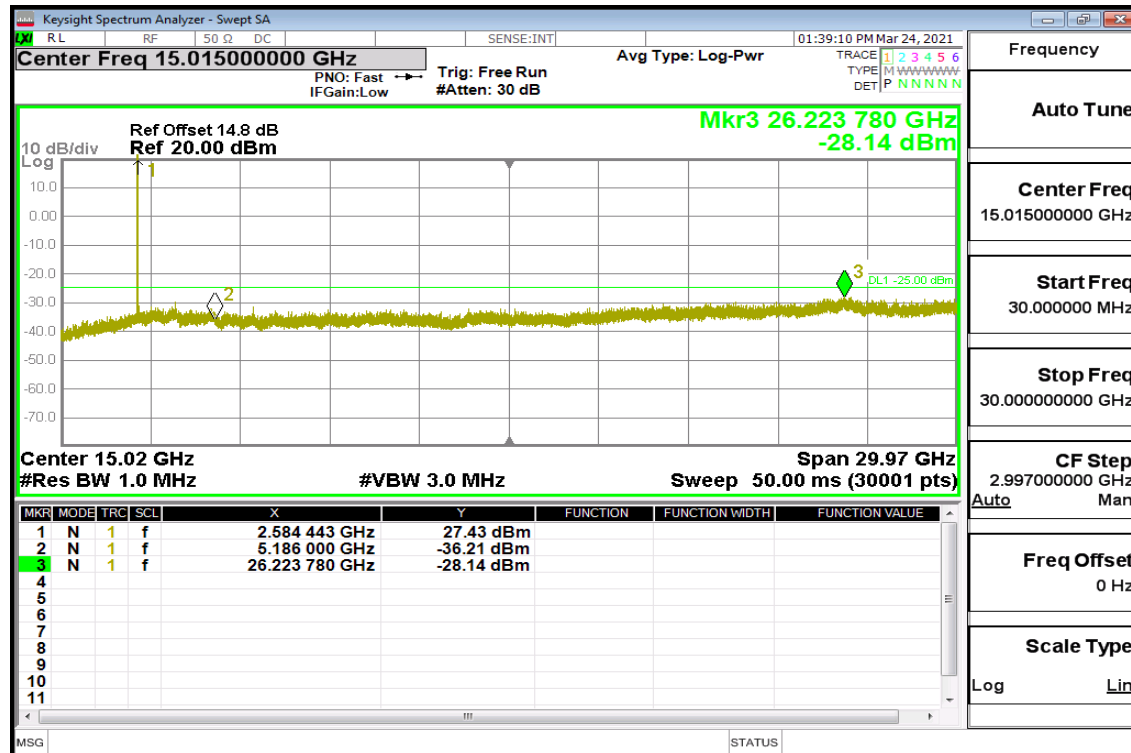
Report No.: T201102D09-RP16

CHANNEL BANDWIDTH: 20MHz /QPSK / RB =1, RB Offset = 0

CH Low



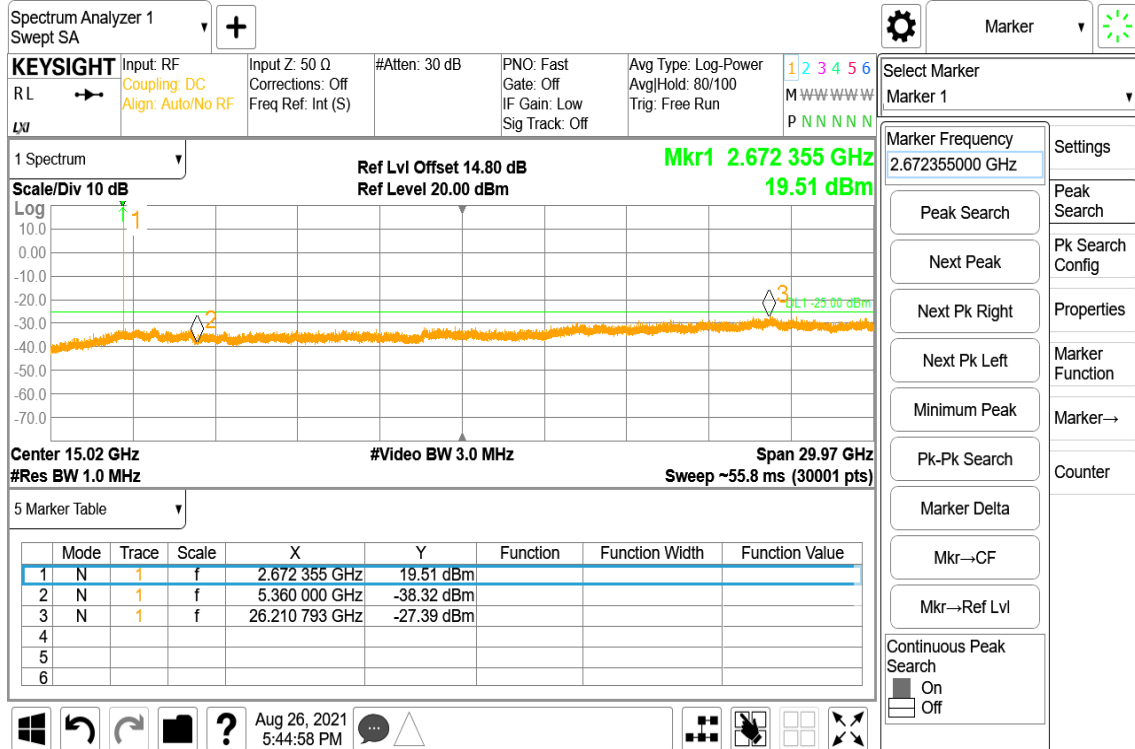
CH Mid





Report No.: T201102D09-RP16

CH High



8.6 RADIATED EMISSION MEASUREMENT

LIMITS

FCC §27.53(h), Band 41

General protection levels. Except as otherwise specified below, for operations in the 1710-1755MHz bands, 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.

According to RSS-199, Band 41

For mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

- (i) $40 + 10 \log_{10} p$ from the channel edges to 5 MHz away
- (ii) $43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and
- (iii) $55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

p is the transmitter power measured in watts and **X** is 6 MHz or the equipment occupied bandwidth, whichever is greater.

TEST PROCEDURES

1. According to KDB 971168 D01 and ANSI C63.26.
2. The EUT was placed on a turntable
 - (1) Below 1G : 0.8m
 - (2) Above 1G : 1.5m
 - (3) EUT set 3m from the receiving antenna
 - (4) The table was rotated 360 degrees of the highest spurious emission to determine the position.
3. Set the spectrum analyzer , RBW=1MHz, VBW=3MHz.
4. A horn antenna was driven by a signal generator.
5. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.



Report No.: T201102D09-RP16

Test Results**LTE Band 41 / BW: 20MHz / QPSK / RB =1, RB Offset = 0****Operation Mode:** Tx / Low CH**Test Date:**

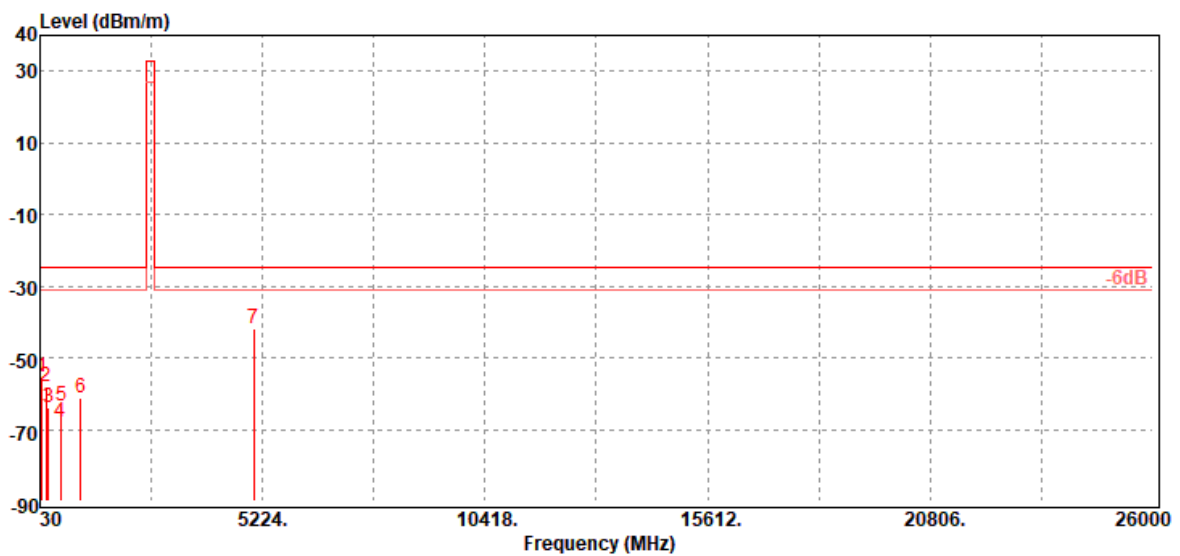
December 15, 2020

Temperature: 21.5°C**Tested by:**

Jerry Chang

Humidity: 60% RH**Polarity:**

Ver.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
85.29	-55.32	-46.76	-7.81	-0.75	-25.00	-30.32	V
163.86	-58.00	-51.04	-5.91	-1.05	-25.00	-33.00	V
219.15	-63.97	-60.73	-2.02	-1.22	-25.00	-38.97	V
500.45	-68.10	-64.24	-1.99	-1.87	-25.00	-43.10	V
531.49	-63.57	-60.35	-1.30	-1.92	-25.00	-38.57	V
985.45	-60.99	-56.93	-1.40	-2.66	-25.00	-35.99	V
5012.00	-41.84	-47.75	12.48	-6.57	-25.00	-16.84	V

Operation Mode: Tx / Low CH

Test Date:

December 15, 2020

Temperature: 21.5°C

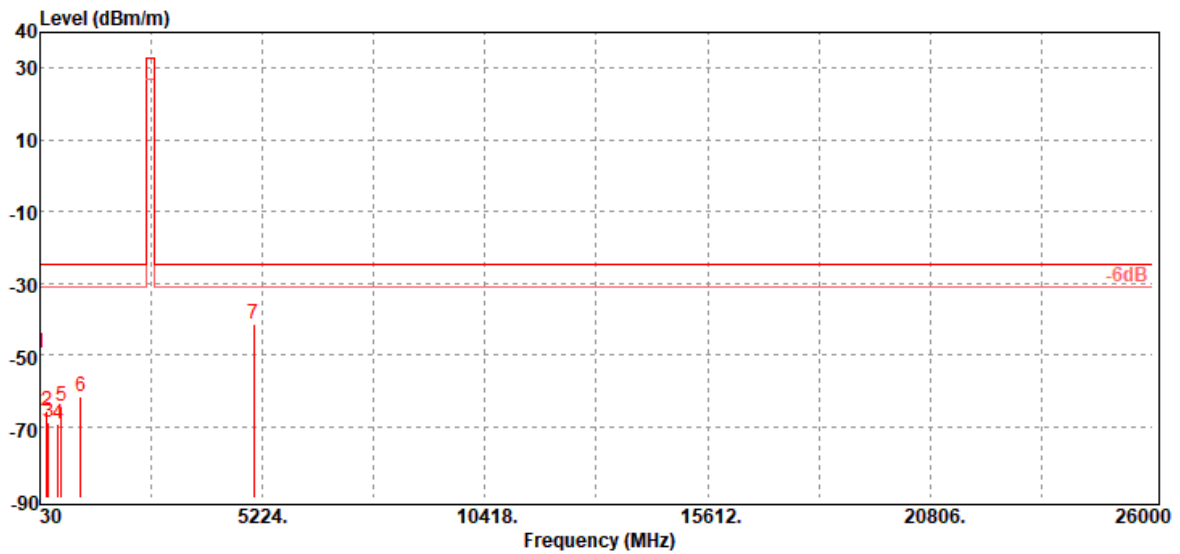
Tested by:

Jerry Chang

Humidity: 60% RH

Polarity:

Hor.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
41.64	-49.39	-30.25	-18.62	-0.52	-25.00	-24.39	H
180.35	-65.62	-60.16	-4.36	-1.10	-25.00	-40.62	H
222.06	-68.72	-65.54	-1.96	-1.22	-25.00	-43.72	H
444.19	-69.34	-65.49	-2.10	-1.75	-25.00	-44.34	H
529.55	-64.19	-60.97	-1.30	-1.92	-25.00	-39.19	H
988.36	-61.55	-57.49	-1.40	-2.66	-25.00	-36.55	H
5012.00	-41.20	-47.11	12.48	-6.57	-25.00	-16.20	H



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Rev.: 00

Operation Mode: Tx / Mid CH

Test Date:

December 15, 2020

Temperature: 21.5°C

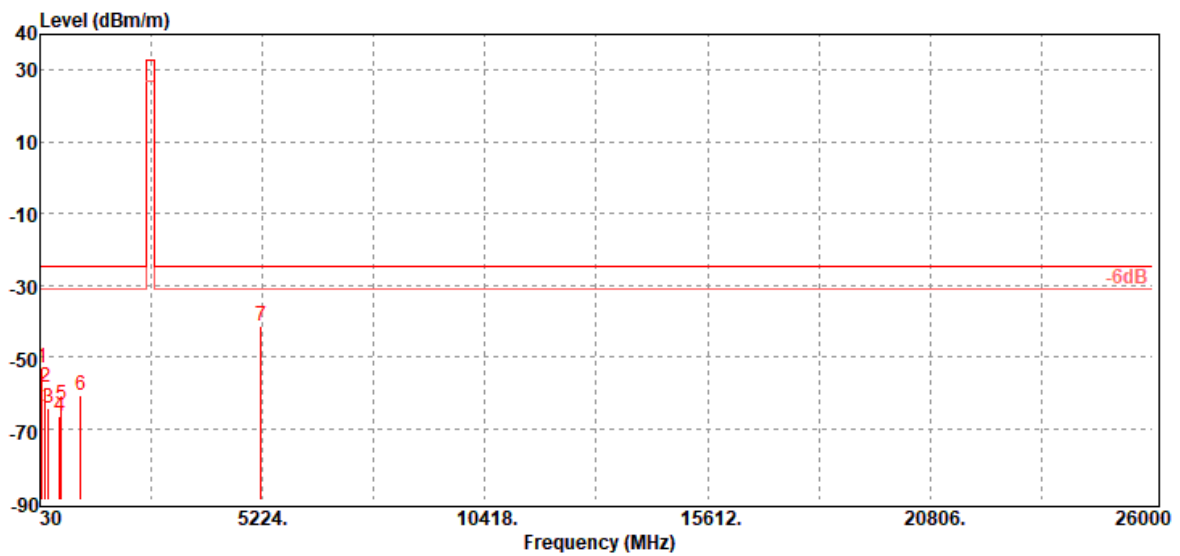
Tested by:

Jerry Chang

Humidity: 60% RH

Polarity:

Ver.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
86.26	-53.00	-44.69	-7.55	-0.76	-25.00	-28.00	V
152.22	-58.69	-50.82	-6.86	-1.01	-25.00	-33.69	V
219.15	-64.22	-60.98	-2.02	-1.22	-25.00	-39.22	V
481.05	-66.70	-62.50	-2.38	-1.82	-25.00	-41.70	V
527.61	-63.56	-60.34	-1.30	-1.92	-25.00	-38.56	V
975.75	-60.68	-56.66	-1.38	-2.64	-25.00	-35.68	V
5186.00	-41.40	-47.58	12.92	-6.74	-25.00	-16.40	V



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Operation Mode: Tx / Mid CH

Test Date:

December 15, 2020

Temperature: 21.5°C

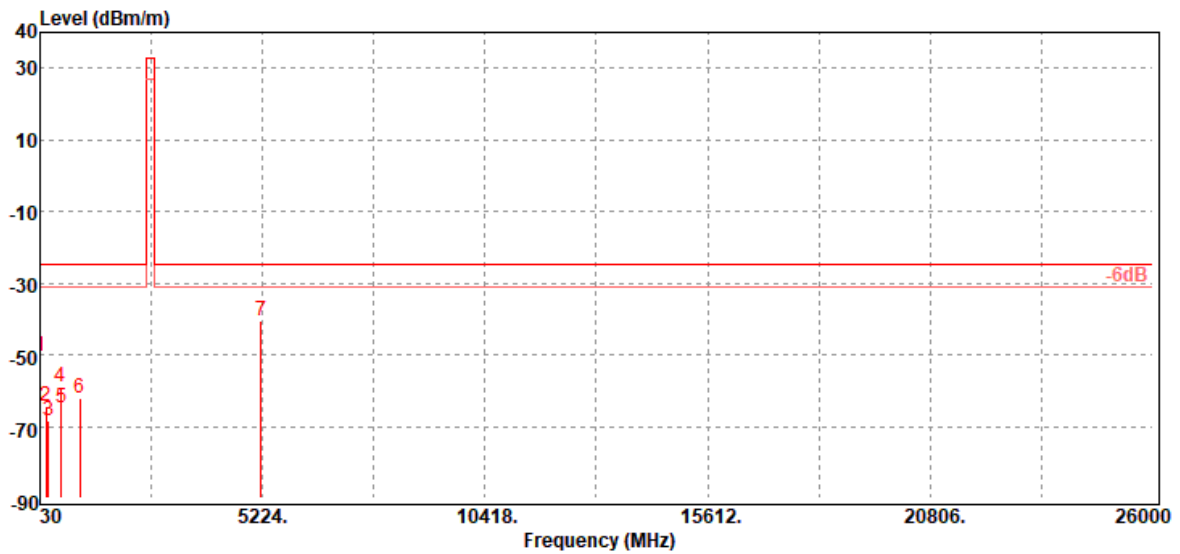
Tested by:

Jerry Chang

Humidity: 60% RH

Polarity:

Hor.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
44.55	-50.62	-34.22	-15.86	-0.54	-25.00	-25.62	H
172.59	-64.28	-58.06	-5.14	-1.08	-25.00	-39.28	H
219.15	-68.46	-65.22	-2.02	-1.22	-25.00	-43.46	H
500.45	-59.10	-55.24	-1.99	-1.87	-25.00	-34.10	H
527.61	-64.87	-61.65	-1.30	-1.92	-25.00	-39.87	H
963.14	-61.98	-58.05	-1.30	-2.63	-25.00	-36.98	H
5186.00	-40.60	-46.78	12.92	-6.74	-25.00	-15.60	H



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Rev.: 00

Operation Mode: Tx / High CH

Test Date:

December 15, 2020

Temperature: 21.5°C

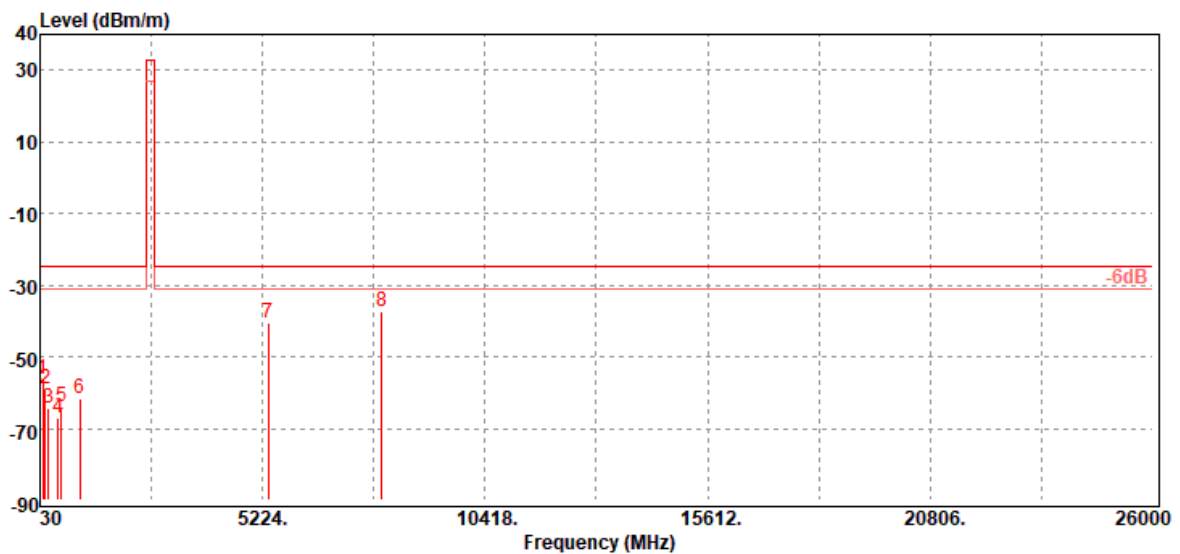
Tested by:

Jerry Chang

Humidity: 60% RH

Polarity:

Ver.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
88.20	-56.15	-48.22	-7.16	-0.77	-25.00	-31.15	V
153.19	-58.88	-51.14	-6.72	-1.02	-25.00	-33.88	V
221.09	-64.40	-61.20	-1.98	-1.22	-25.00	-39.40	V
447.10	-67.15	-63.30	-2.10	-1.75	-25.00	-42.15	V
527.61	-63.86	-60.64	-1.30	-1.92	-25.00	-38.86	V
956.35	-61.62	-57.77	-1.23	-2.62	-25.00	-36.62	V
5360.00	-40.72	-47.07	13.26	-6.91	-25.00	-15.72	V
8000.00	-37.36	-39.47	10.50	-8.39	-25.00	-12.36	V



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Rev.: 00

Operation Mode: Tx / High CH

Test Date:

December 15, 2020

Temperature: 21.5°C

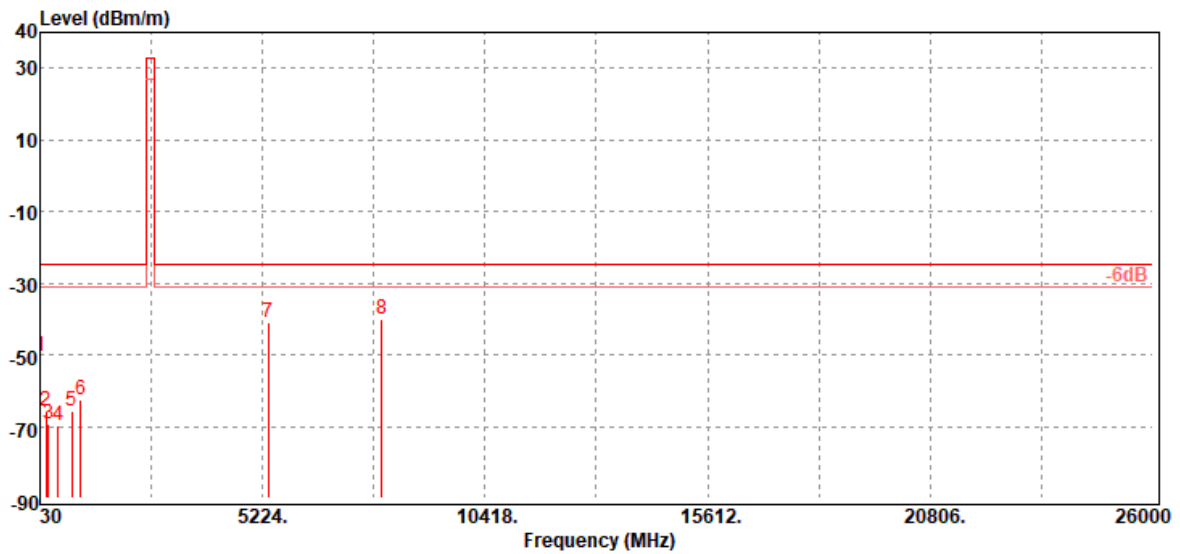
Tested by:

Jerry Chang

Humidity: 60% RH

Polarity:

Hor.



Freq. MHz	ERP/EIRP dBm	SG Output Level dBm	Antenna Gain dBd/dBi	Cable Loss dB	Limit dBm	Margin dB	Antenna Polarization (V/H)
42.61	-50.23	-31.95	-17.75	-0.53	-25.00	-25.23	H
172.59	-65.88	-59.66	-5.14	-1.08	-25.00	-40.88	H
222.06	-69.32	-66.14	-1.96	-1.22	-25.00	-44.32	H
458.74	-69.63	-65.75	-2.10	-1.78	-25.00	-44.63	H
776.90	-65.92	-62.14	-1.44	-2.34	-25.00	-40.92	H
988.36	-62.48	-58.42	-1.40	-2.66	-25.00	-37.48	H
5360.00	-40.96	-47.31	13.26	-6.91	-25.00	-15.96	H
8000.00	-40.05	-42.16	10.50	-8.39	-25.00	-15.05	H

- End of Test Report -