

TEST REPORT

Report No.: SHE20120008-02CE

Date: 2021-01-07

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Applicant : Shanghai BroadMobi Communication Technology Co., Ltd.
Address of Applicant : 15F, Building 9, No.99 Tianzhou Rd.,Xuhui District,
Shanghai, P.R.China

Product Name : LTE Desk Router
Model No. : R520
Sample No. : E20120008-01#04
E20120008-01#02
FCC ID : 2AON8R520

Standards : FCC CFR47 Part 15, Subpart C

Date of Receipt : 2020-12-17
Date of Test : 2020-12-22 ~ 2021-01-07
Date of Issue : 2021-01-07

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Prepared by: Jennifer Zhou
(Jennifer Zhou)

Reviewed by: Oliver Xiang
(Oliver Xiang)

Approved by: Guoyou Chi
(Authorized signatory Guoyou Chi)

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2019-10-31	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai BroadMobi Communication Technology Co., Ltd.
Address	15F, Building 9, No.99 Tianzhou Rd.,Xuhui District, Shanghai, P.R.China
Contact Person	Jiang Tao
Telephone	60913308-825
Email	jiangtao@broadmobi.com

1.3 Details of EUT

Product Name	LTE Desk Router
Brand Name	Broadmobi
Model No.	R520
FCC ID	2AON8R520
Network and Wireless connectivity	WLAN 802.11b/g/n(HT20/HT40)
Mode of Operation	WLAN 802.11b/g/n(HT20/HT40)
Frequency Range	2400MHz ~ 2483.5MHz
Channel Separation	5 MHz
Modulation Type	DSSS, OFDM
Antenna Type	External Antenna
Antenna0 Gain	1.03dBi
Antenna1 Gain	2.13dBi
Extreme Temperature Range	0℃ ~ +40℃
Test Voltage	DC 12V
Hardware version	V2.0
Software version	V1.0

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
KDB Publication 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

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2 Test Condition

2.1 Test Facility

2.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.3 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2021-08-18
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2021-06-08
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2021-06-08
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2021-06-08
V-network	SCHWARZBECK	NSLK 8127	8127-902	2021-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2021-08-18
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2021-06-08
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2021-06-08
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2021-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2021-06-08
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2021-06-08
Test Software	BL	BL410_E	N/A	N/A

2.4 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:

For 802.11b/g/n (HT20)

Channel	Frequency	Remark
CH1	2412MHz	2412MHz
CH6	2437MHz	2437MHz
CH11	2462MHz	2462MHz

For 802.11n (HT40)

Channel	Frequency	Remark
CH3	2422MHz	2422MHz
CH6	2437MHz	2437MHz
CH9	2452MHz	2452MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate (For Chain 0)	Data rate (For Chain 1)
802.11b	11Mbps	11Mbps
802.11g	54Mbps	54Mbps
802.11n(HT20)	MCS7	MCS7
802.11n(HT40)	MCS7	MCS7

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

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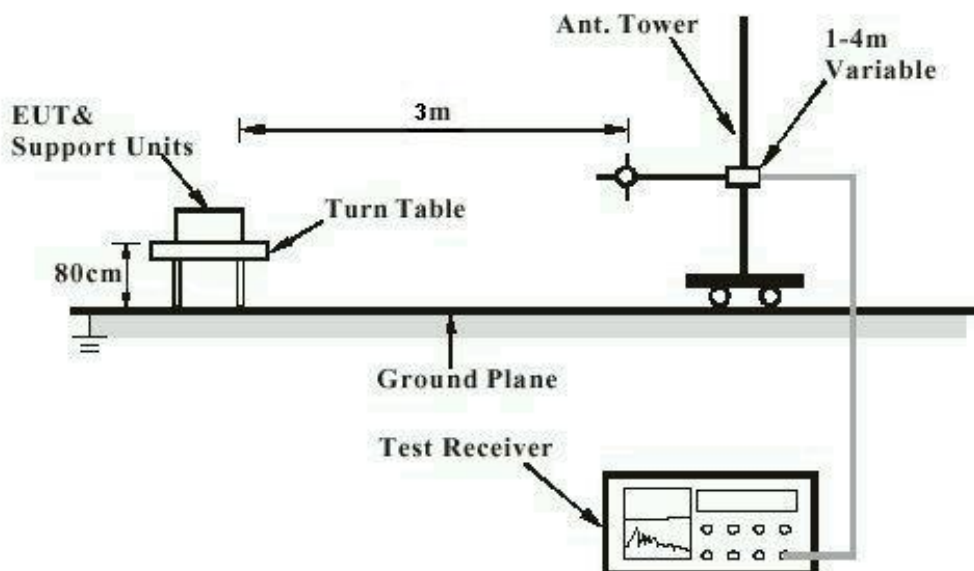
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3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A
USB DATA Cable	N/A	N/A	N/A

3.3 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement

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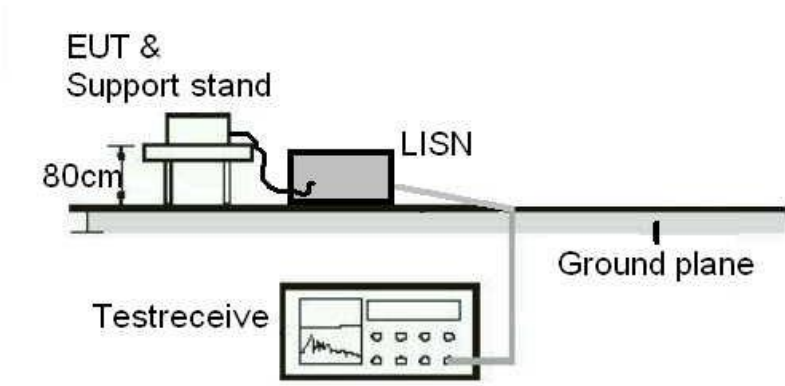
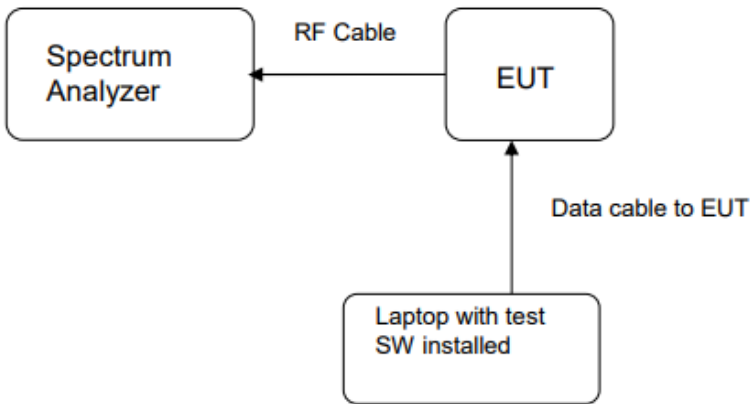


Diagram of Measurement Equipment Configuration for Transmitter Measurement



3.4 Support Software

Description	Manufacturer	Software Name
ADB Command	N/A	ADB Command

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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard : FCC Part 15.247(b)(4), Part 15.203

Requirement : The use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a max gain of 2.13 dBi. The antenna is an External antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Peak Output Power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Table 1: Peak Output Power

Table 2: Peak Output Power						
Test Mode	Test Channel (MHz)	Measured Peak Power				Limit (W)
		Chain 0		Chain 1		
		(dBm)	(mW)	(dBm)	(mW)	
802.11b	2412	16.38	43.45	16.98	49.89	< 1
	2437	18.37	68.71	18.42	69.50	
	2462	17.32	53.95	17.52	56.49	
802.11g	2412	12.41	17.42	13.16	20.70	
	2437	14.15	26.00	14.15	26.00	
	2462	13.32	21.48	13.82	24.10	
802.11n(HT20)	2412	12.36	17.22	13.34	21.58	
	2437	13.97	24.95	14.19	26.24	
	2462	13.34	21.58	13.78	23.88	
802.11n(HT40)	2422	12.66	18.45	12.94	19.68	
	2437	12.92	19.59	13.11	20.46	
	2452	12.61	18.24	12.92	19.59	

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Test Mode	Test Channel (MHz)	Measured Peak Power						Limit (W)
		MIMO Chain 0		MIMO Chain 1		MIMO		
		(dBm)	(mW)	(dBm)	(mW)	(dBm)	(mW)	
802.11n(HT20)	2412	11.82	15.21	12.76	18.88	15.33	34.09	< 1
	2437	13.43	22.03	13.59	22.86	16.52	44.89	
	2462	12.63	18.32	13.27	21.23	15.97	39.56	
802.11n(HT40)	2422	11.89	15.45	12.35	17.18	15.14	32.63	
	2437	12.29	16.94	12.48	17.70	15.40	34.64	
	2452	11.84	15.28	12.30	16.98	15.09	32.26	
Note 1: The 802.11 n20,n40 mode can support MIMO. Note 2: The 802.11 b, g mode can not support MIMO Note 3 :2.4G MIMO gain is 2.13dBi + 10log(2) =5.14dBi (2.13dBi is MAX gain of 2.4G)								

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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Notes

Test plots please refer to the annex document "WIFI2.4G 6dB EXHIBIT A of SHE20120008-02CE Chain 0".

Test plots please refer to the annex document "WIFI2.4G 6dB EXHIBIT A of SHE20120008-02CE Chain 1".

Test plots please refer to the annex document "WIFI2.4G 99% Bandwidth EXHIBIT A of SHE20120008-02CE Chain 0".

Test plots please refer to the annex document "WIFI2.4G 99% Bandwidth EXHIBIT A of SHE20120008-02CE Chain 1".

Table 2: Chain 0 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	9.207	15.164	>0.5
	2437	9.355	14.893	
	2462	9.082	15.103	
802.11g	2412	16.298	17.089	
	2437	16.496	16.914	
	2462	16.468	17.039	
802.11n(HT20)	2412	17.388	18.262	
	2437	17.628	18.110	
	2462	17.700	18.130	
802.11n(HT40)	2422	34.238	36.078	
	2437	35.452	36.098	
	2452	36.056	36.251	

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Table 3: Chain 1 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	9.302	15.176	>0.5
	2437	9.341	15.019	
	2462	9.254	15.138	
802.11g	2412	16.417	17.099	
	2437	16.366	16.997	
	2462	16.445	17.021	
802.11n(HT20)	2412	17.580	18.176	
	2437	17.743	18.269	
	2462	17.571	18.217	
802.11n(HT40)	2422	35.310	36.137	
	2437	35.701	36.217	
	2452	36.020	36.238	

Note:

The all chains were tested respectively, but only the worst configuration shown here.

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4.1.4 Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.247(e)

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

Notes

Test plots please refer to the annex document "WIFI2.4G PSD EXHIBIT A of SHE20120008-02CE Chain 0".

Test plots please refer to the annex document "WIFI2.4G PSD EXHIBIT A of SHE20120008-02CE Chain 1".

Test plots please refer to the annex document "WIFI2.4G PSD EXHIBIT A of SHE20120008-02CE MIMO Chain0".

Test plots please refer to the annex document "WIFI2.4G PSD EXHIBIT A of SHE20120008-02CE MIMO Chain1".

Table 4: Chain 0 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	2.89	8
	2437	-5.20	
	2462	3.19	
802.11g	2412	-15.30	
	2437	-13.39	
	2462	-14.70	
802.11n(HT20)	2412	-13.68	
	2437	-13.07	
	2462	-13.60	
802.11n(HT40)	2422	-16.72	
	2437	-17.14	
	2452	-17.89	

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Table 5: Chain 1 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-6.57	8
	2437	-2.96	
	2462	-6.01	
802.11g	2412	-14.71	
	2437	-13.23	
	2462	-14.21	
802.11n(HT20)	2412	-13.33	
	2437	-12.99	
	2462	-12.93	
802.11n(HT40)	2422	-17.08	
	2437	-16.84	
	2452	-17.42	

Table 6: MIMO Chain 0 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11n(HT20)	2412	-14.52	8
	2437	-13.69	
	2462	-14.07	
802.11n(HT40)	2422	-17.80	
	2437	-17.74	
	2452	-17.85	

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Table 7: MIMO Chain 1 Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11n(HT20)	2412	-13.91	8
	2437	-13.83	
	2462	-13.24	
802.11n(HT40)	2422	-16.91	
	2437	-17.11	
	2452	-17.36	

Table 8: MIMO Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11n(HT20)	2412	-11.19	8
	2437	-10.76	
	2462	-10.66	
802.11n(HT40)	2422	-14.32	
	2437	-14.44	
	2452	-14.69	

Note:

The 802.11 n20,n40 mode can support MIMO

The 802.11 b, g mode can not support MIMO

The all chains were tested respectively, but only the worst configuration shown here.

MIMO PSD= Chain1+Chain2 (mw)

2.4G MIMO gain is 2.13dBi + 10log(2) =5.14dBi (2.13dBi is MAX gain of 2.4G)

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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard : FCC Part 15.247(d), 15.209

Requirement : ANSI C63.10-2013, KDB 558074

Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High for spurious, Low/High for Band
Edge

Operation Mode : A.1.a

Ambient temperature : 25°C

Relative humidity : 52%

For details refer to following test plot.

Note:

The all chains were tested respectively, but only the worst configuration shown here.

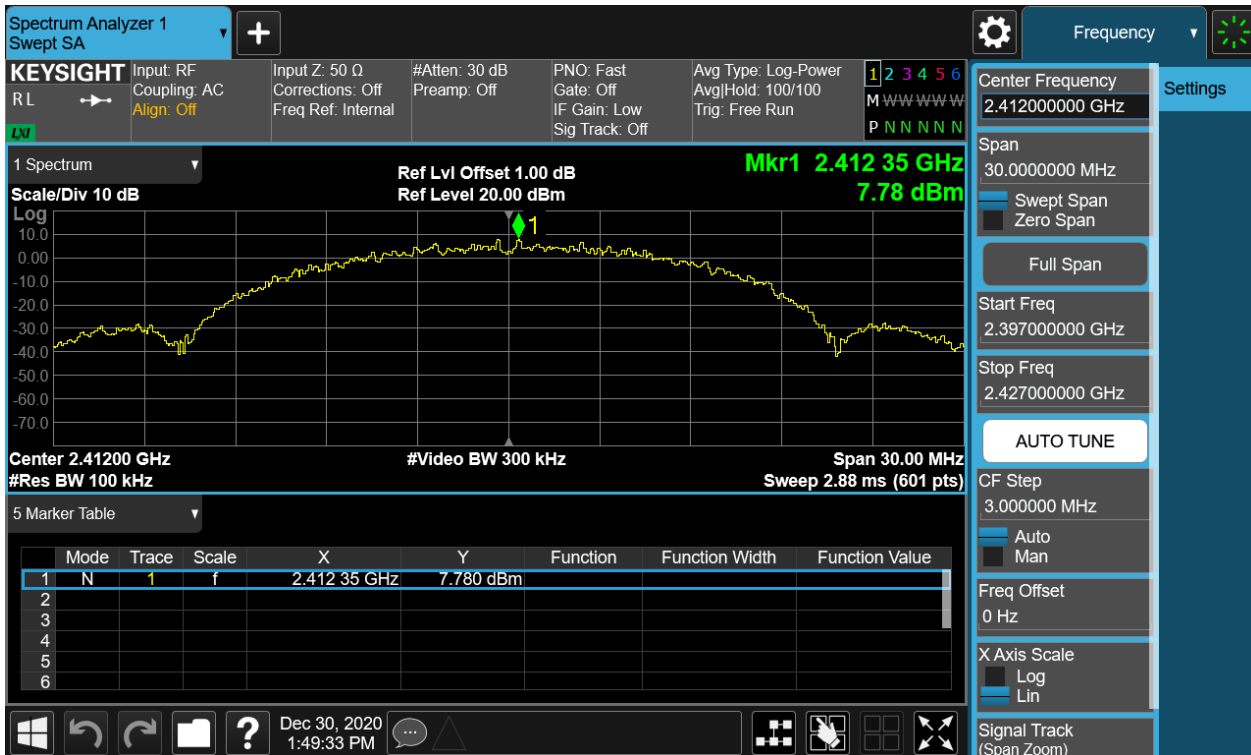
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2412MHz Carrier Level



Band Edge



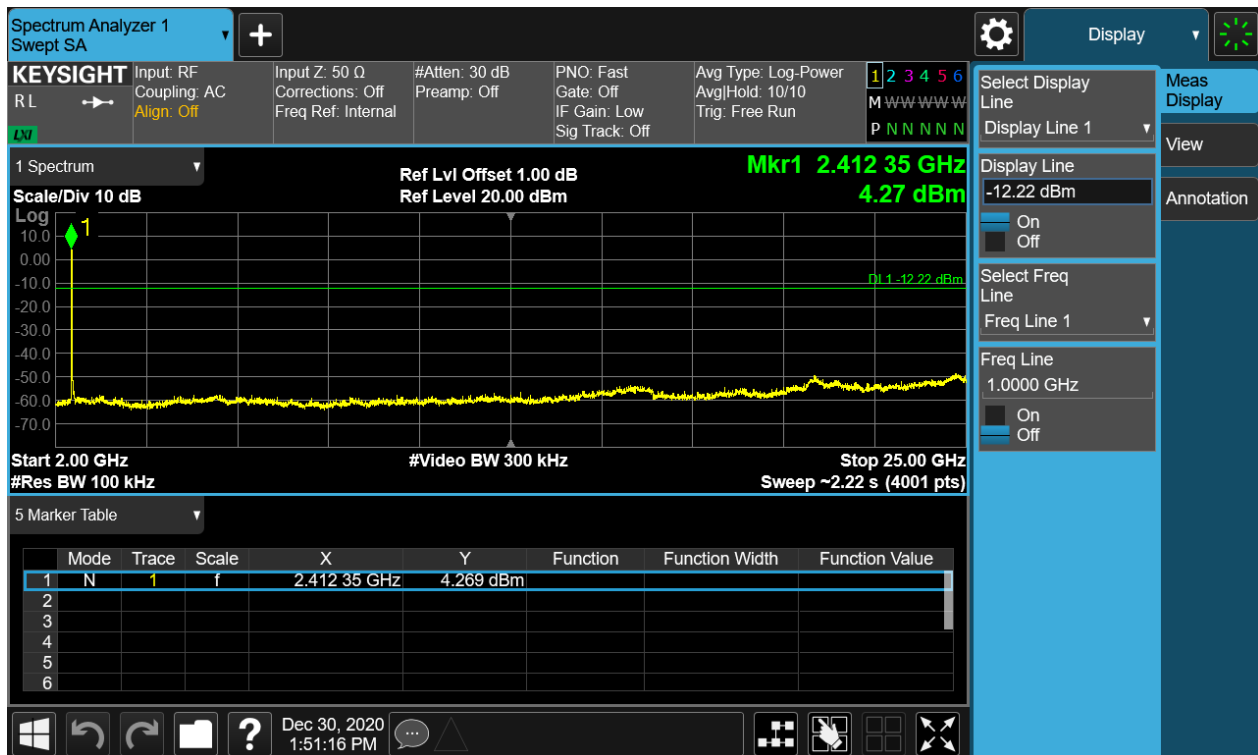
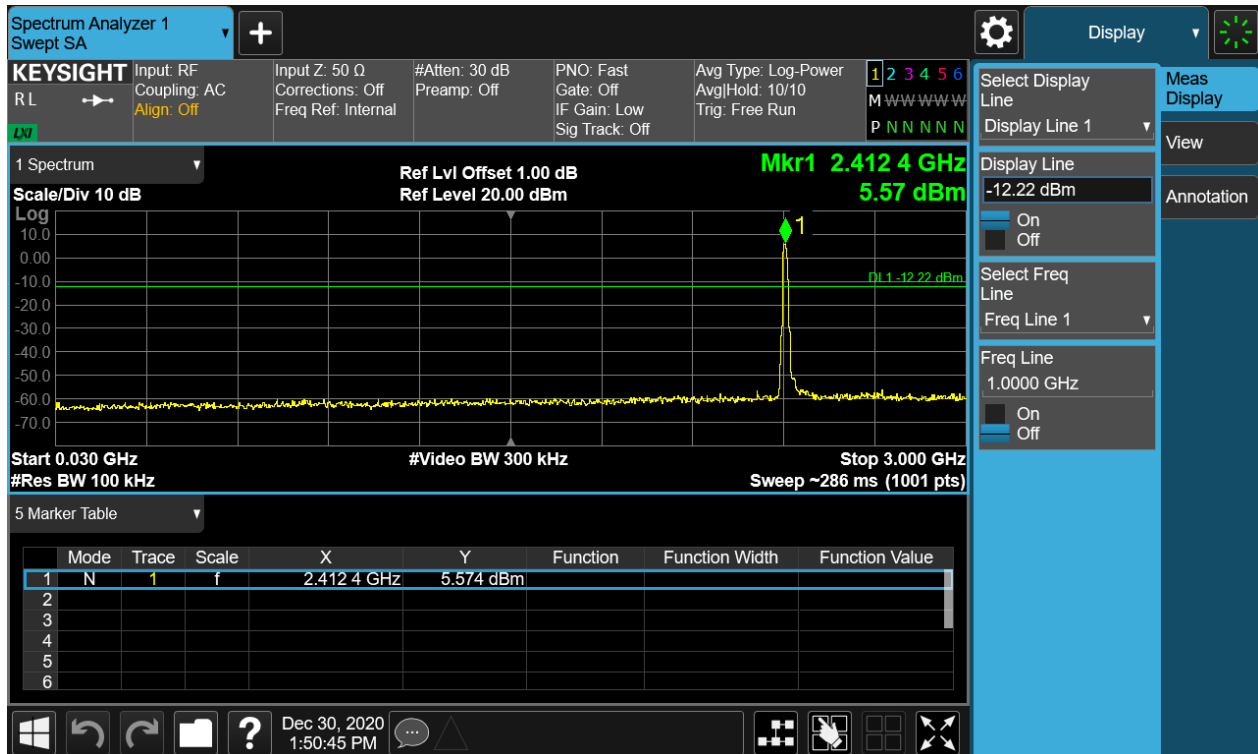
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Conducted spurious emissions 30MHz-25GHz



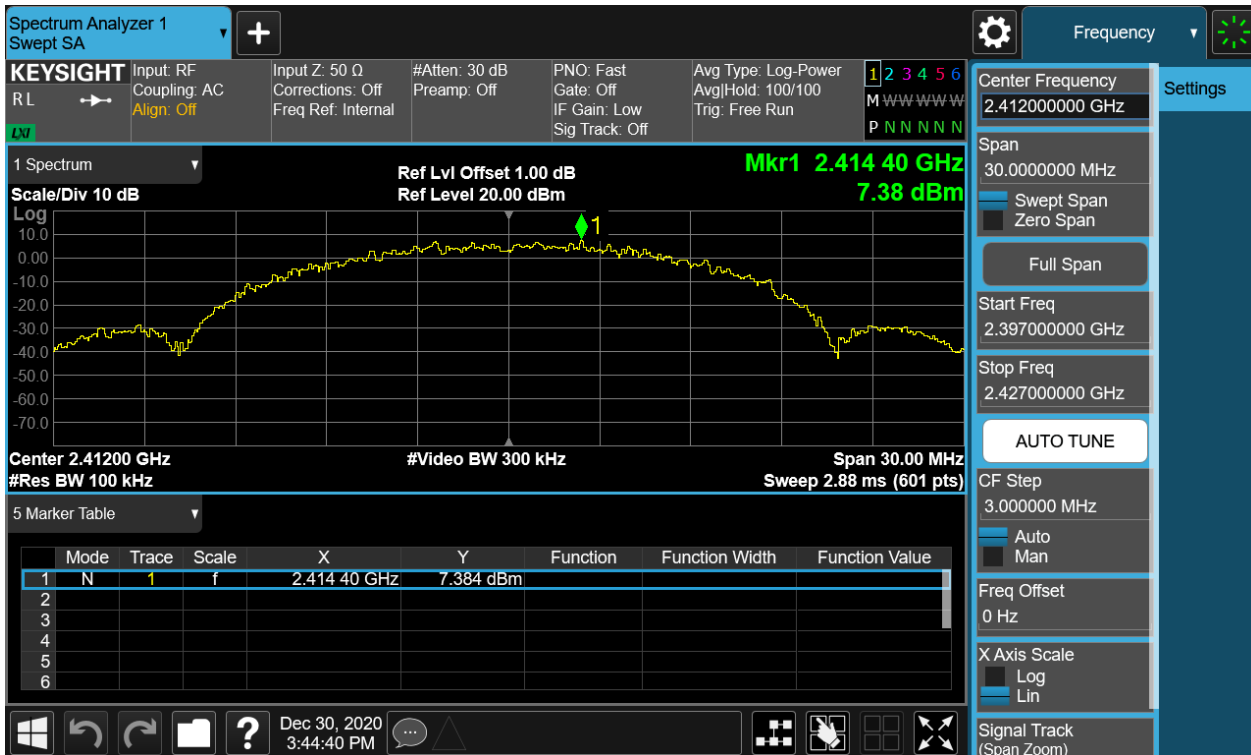
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2412MHz Carrier Level



Band Edge



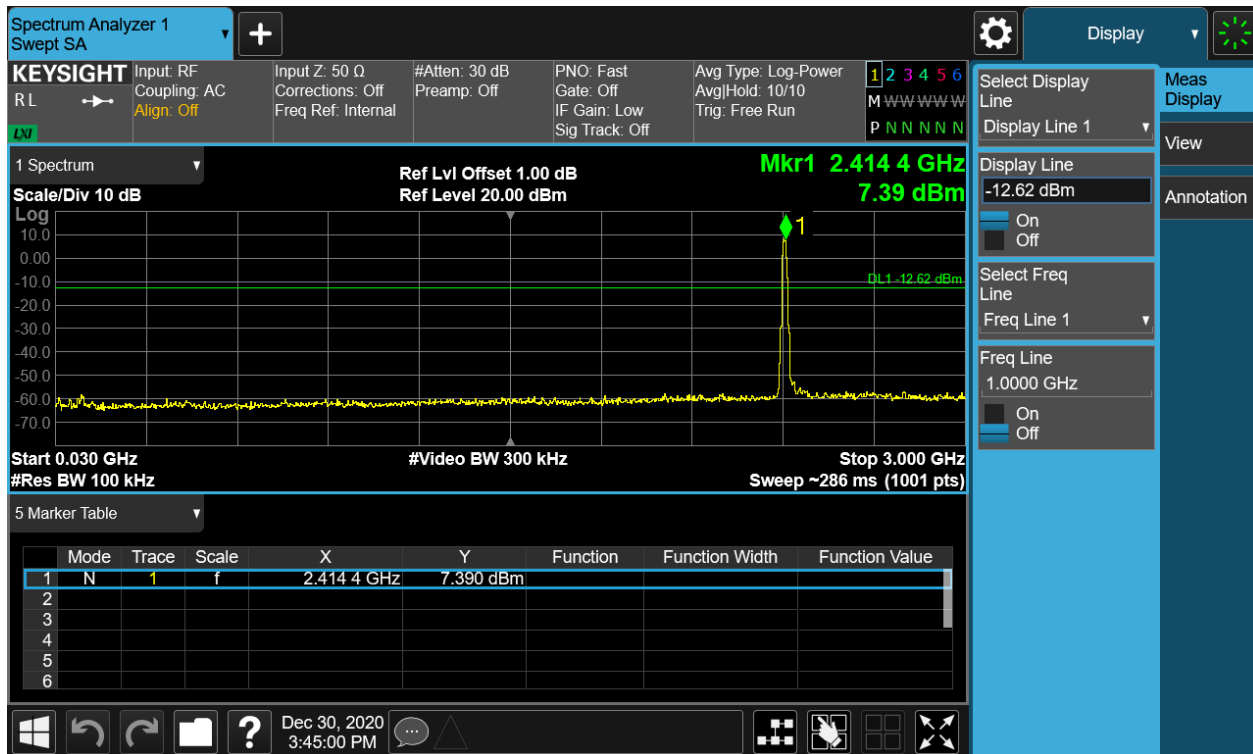
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Conducted spurious emissions 30MHz-25GHz



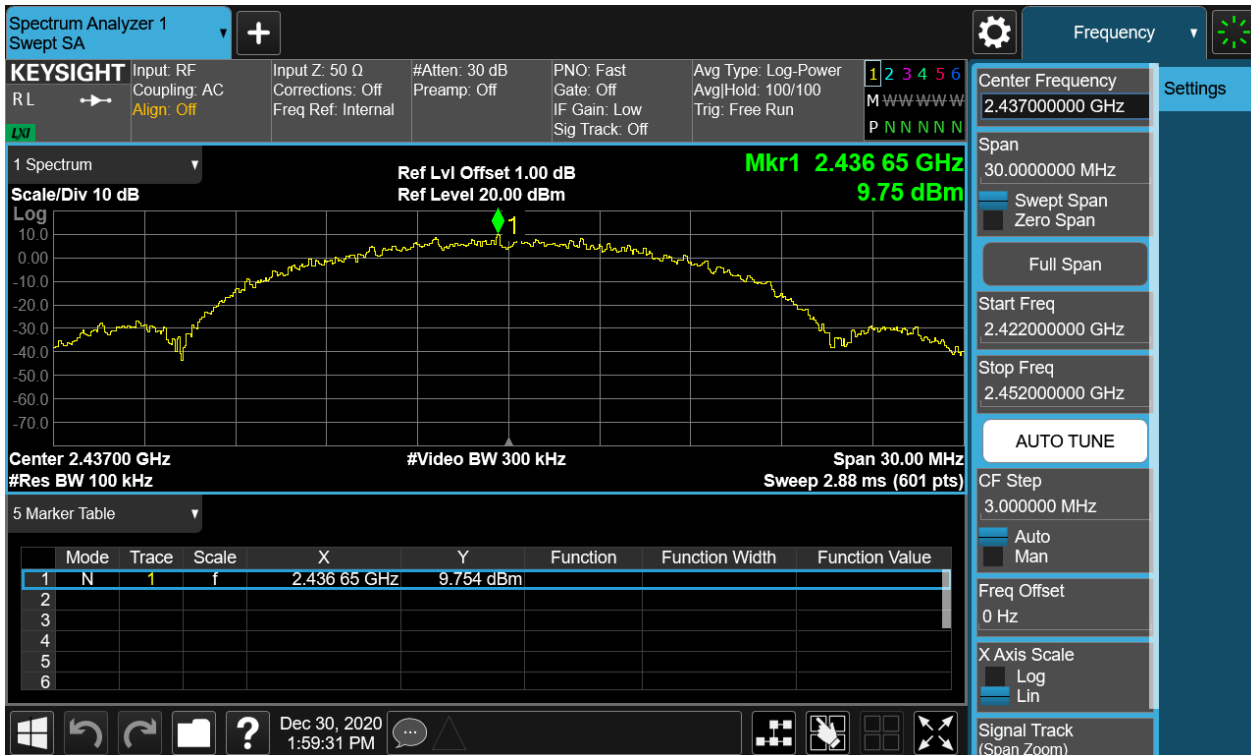
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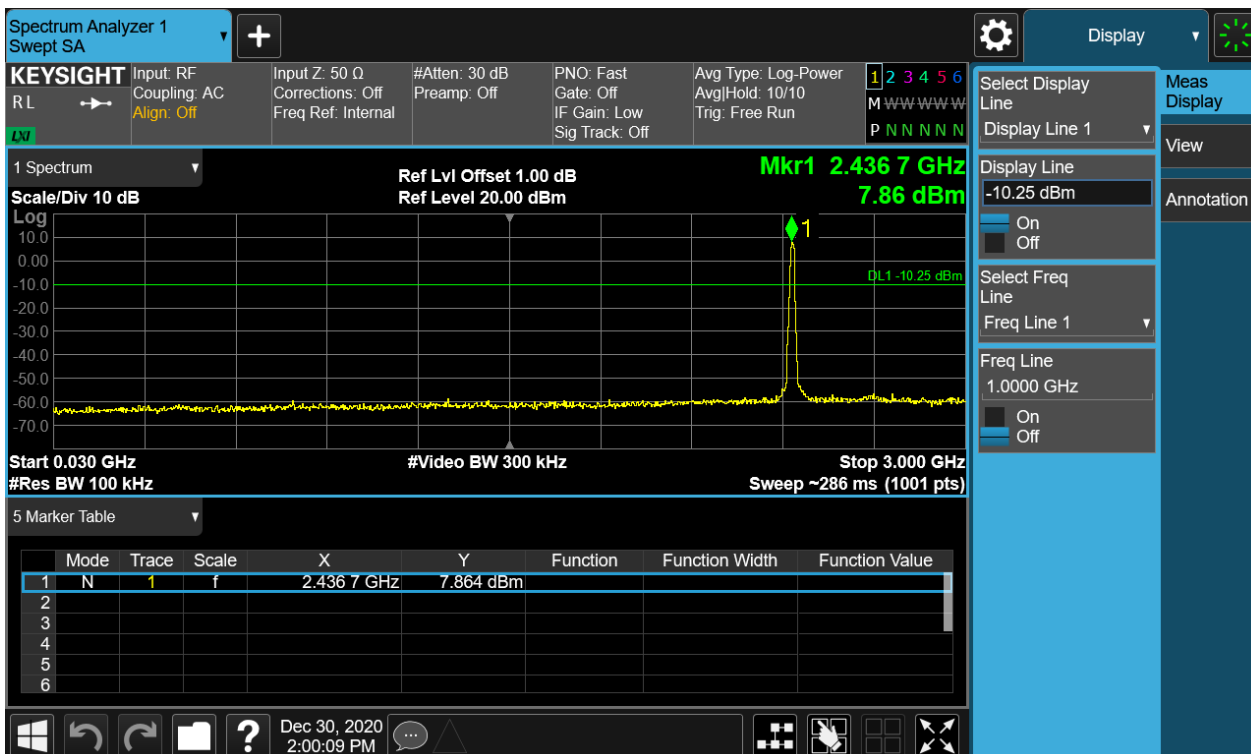
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz

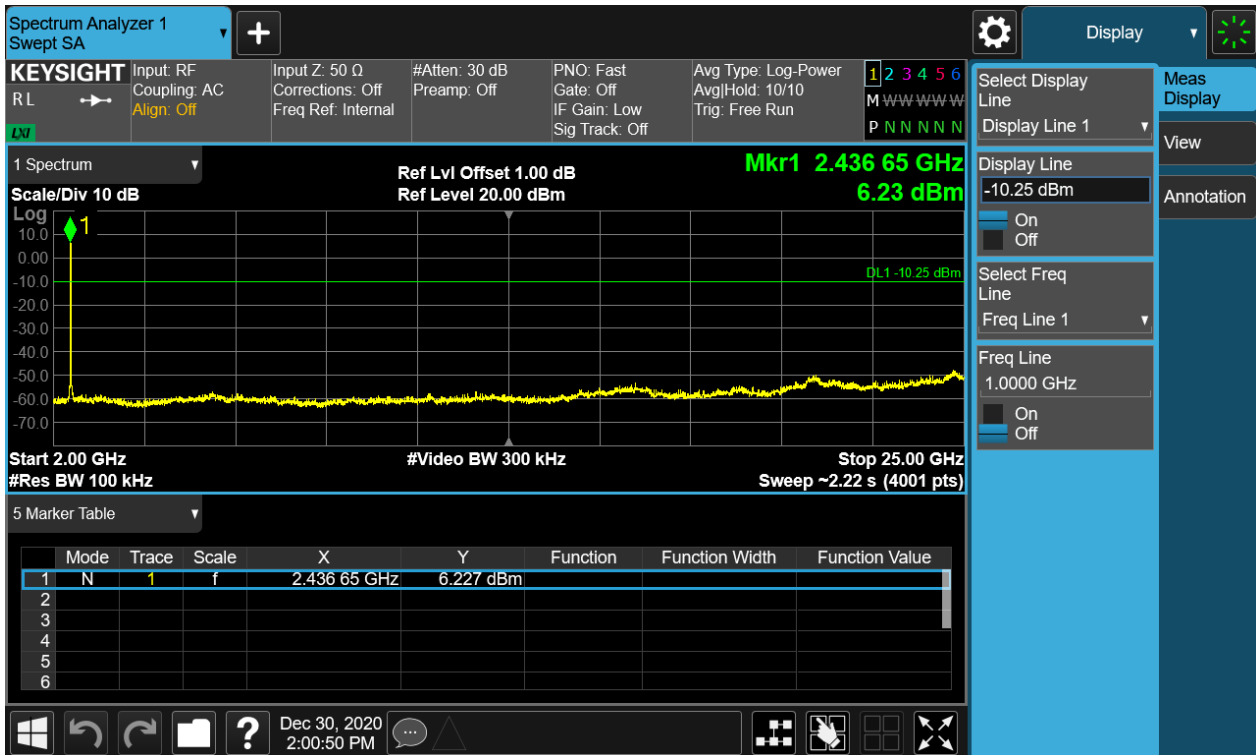


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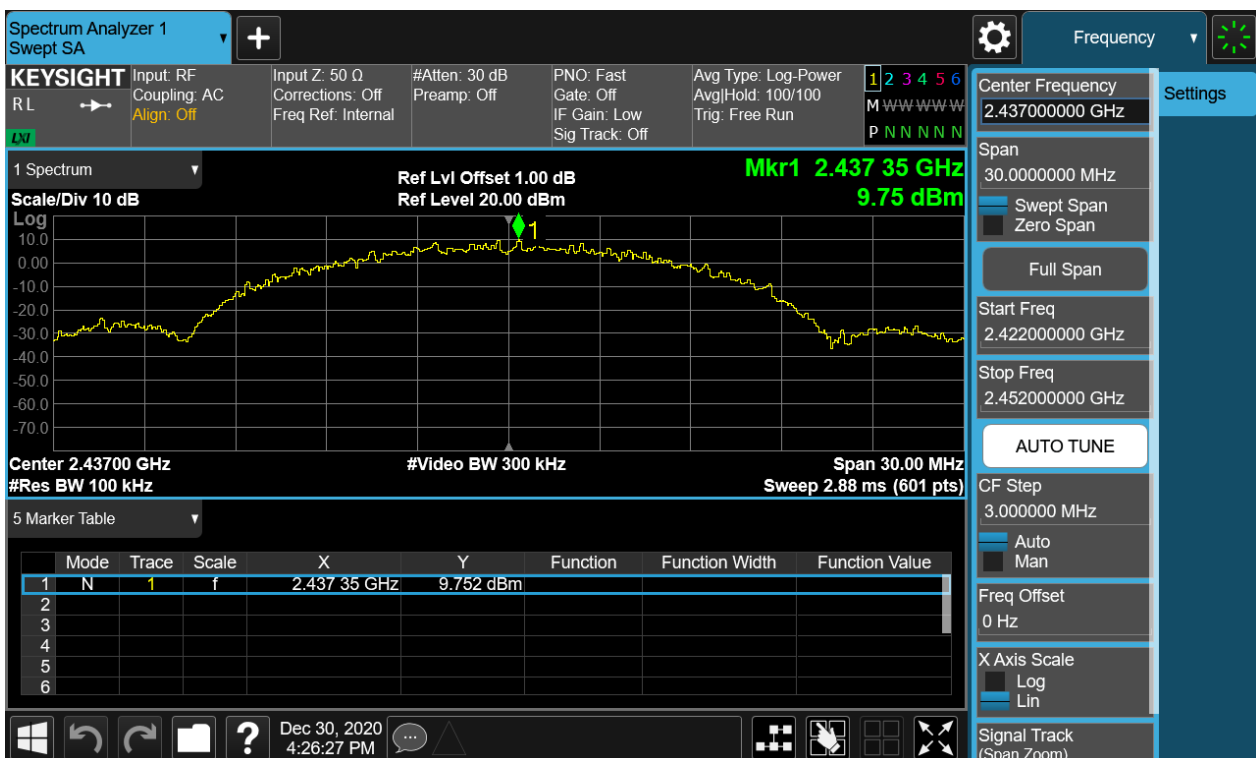
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2437MHz Carrier Level



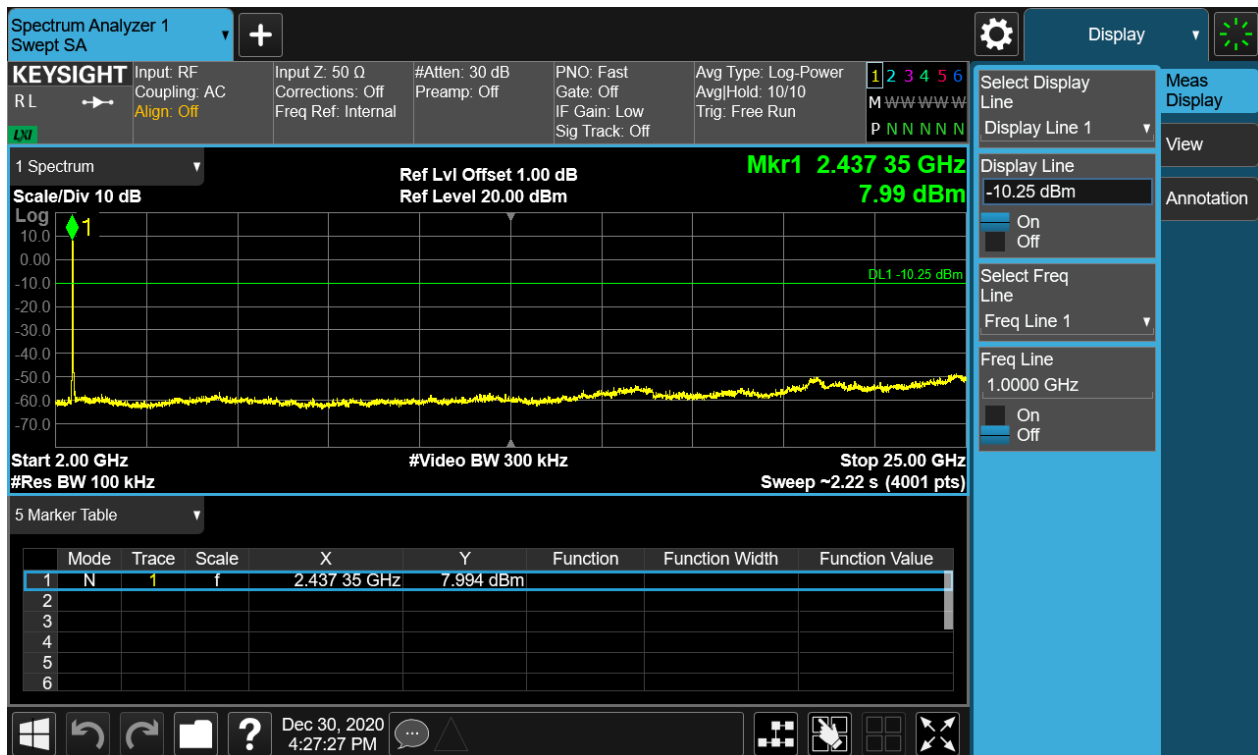
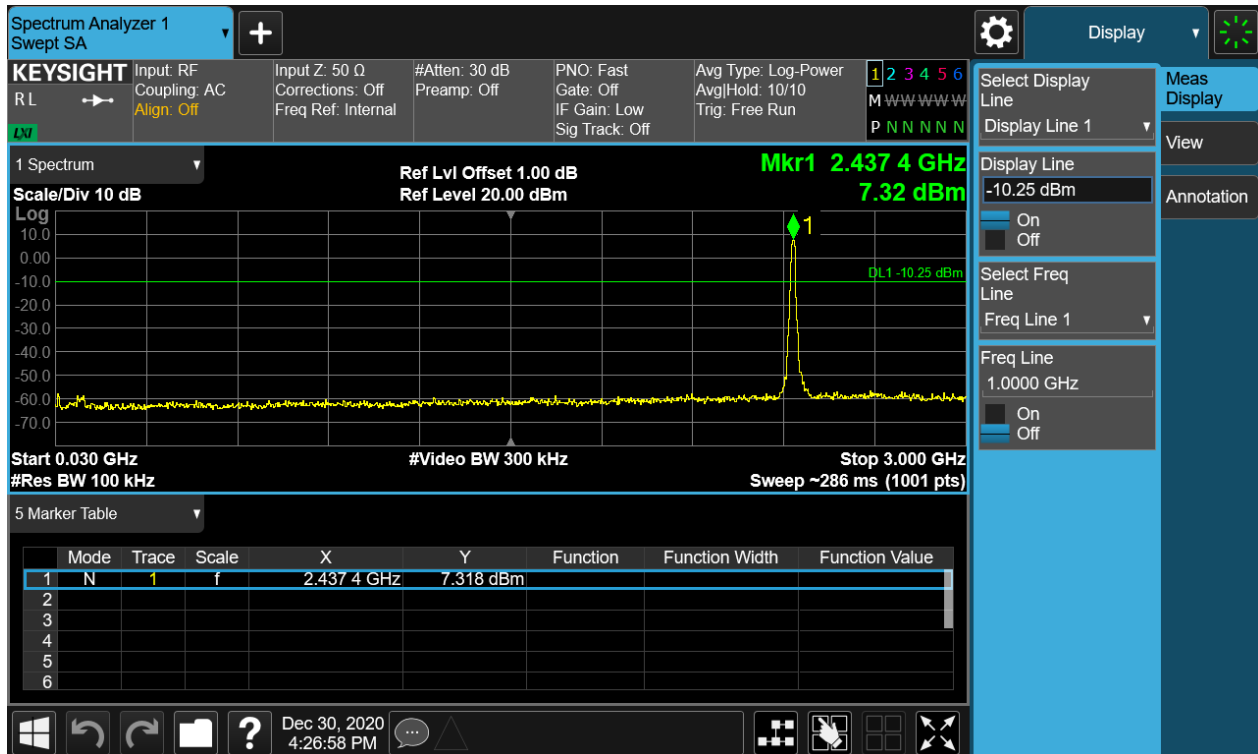
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Conducted spurious emissions 30MHz-25GHz



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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



Band Edge



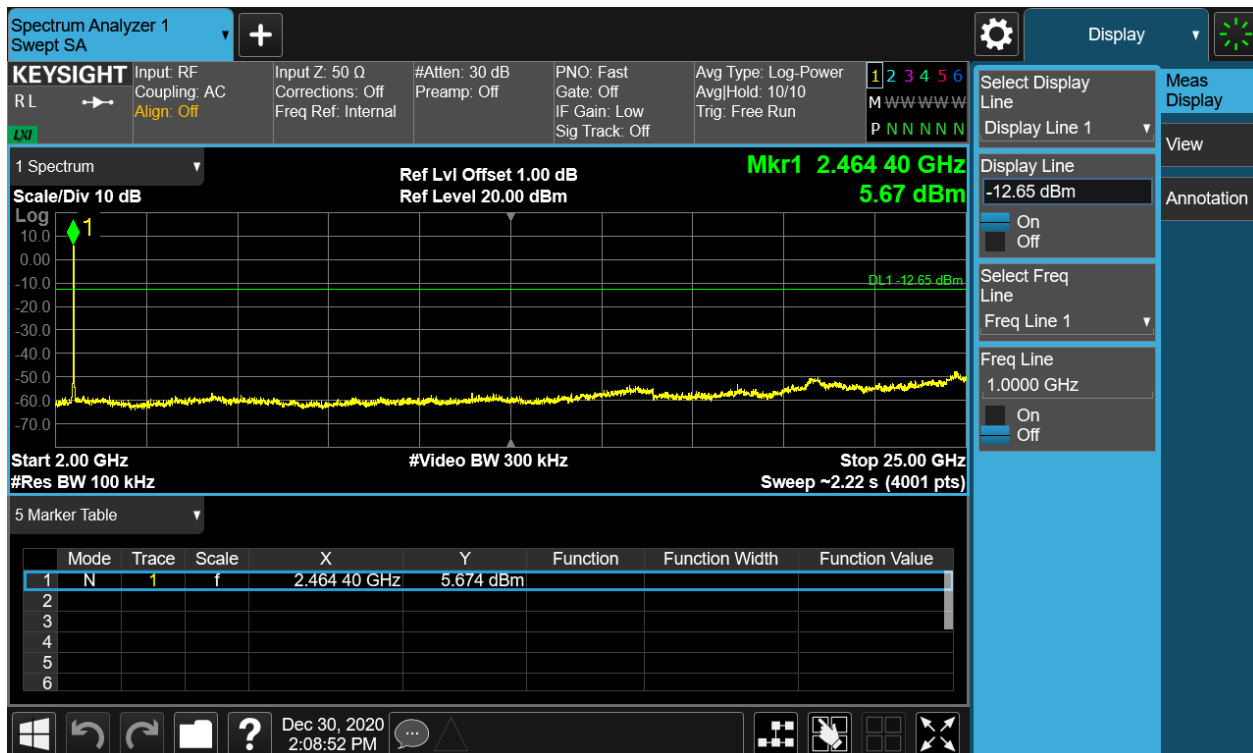
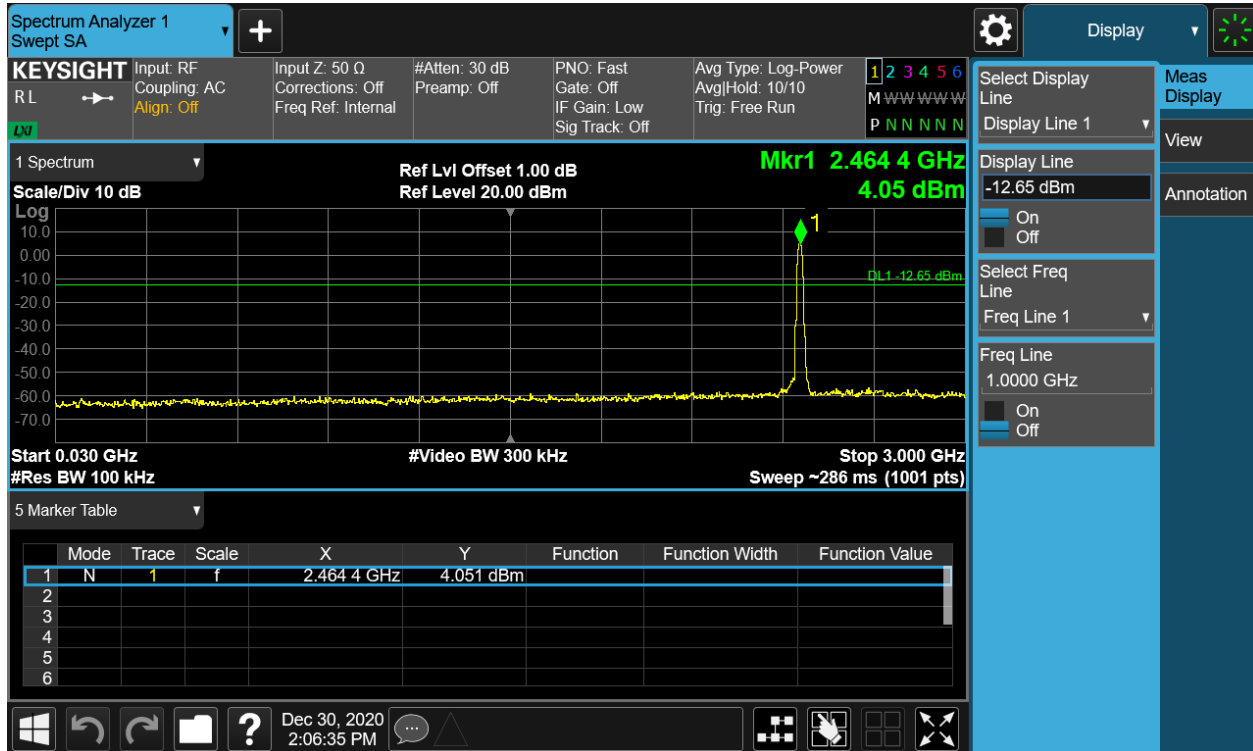
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Conducted spurious emissions 30MHz-25GHz



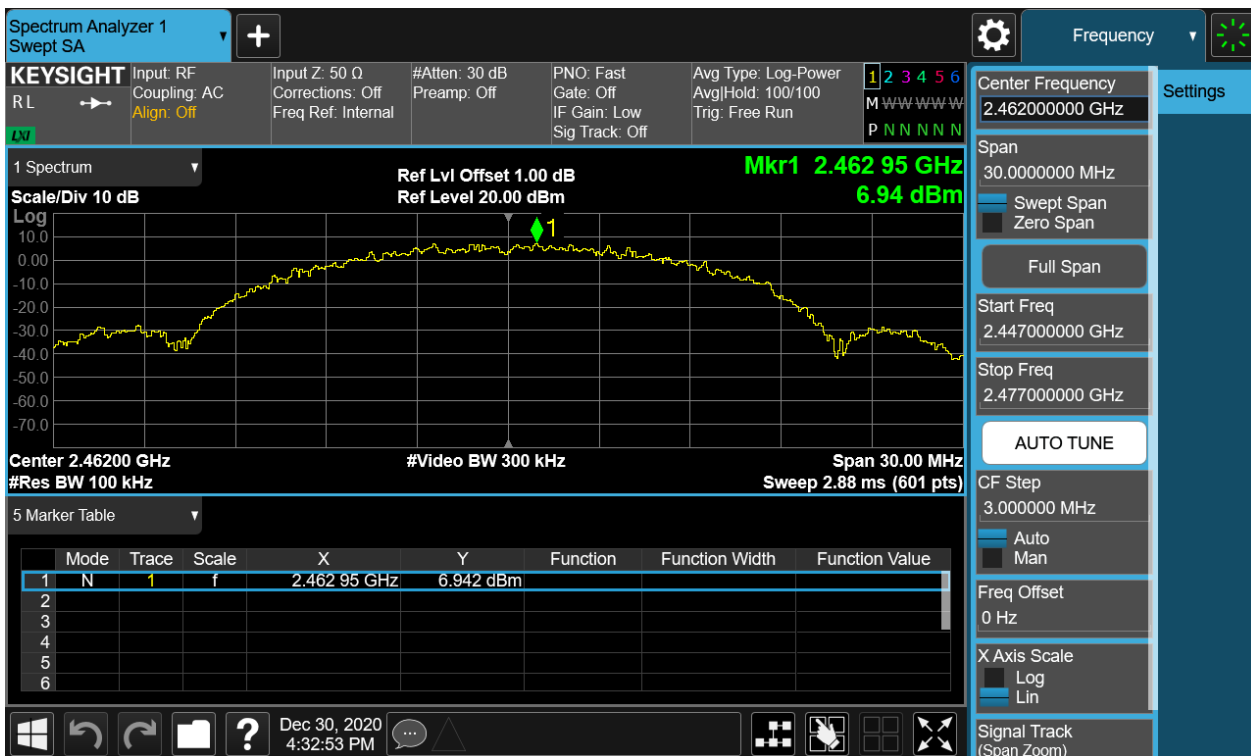
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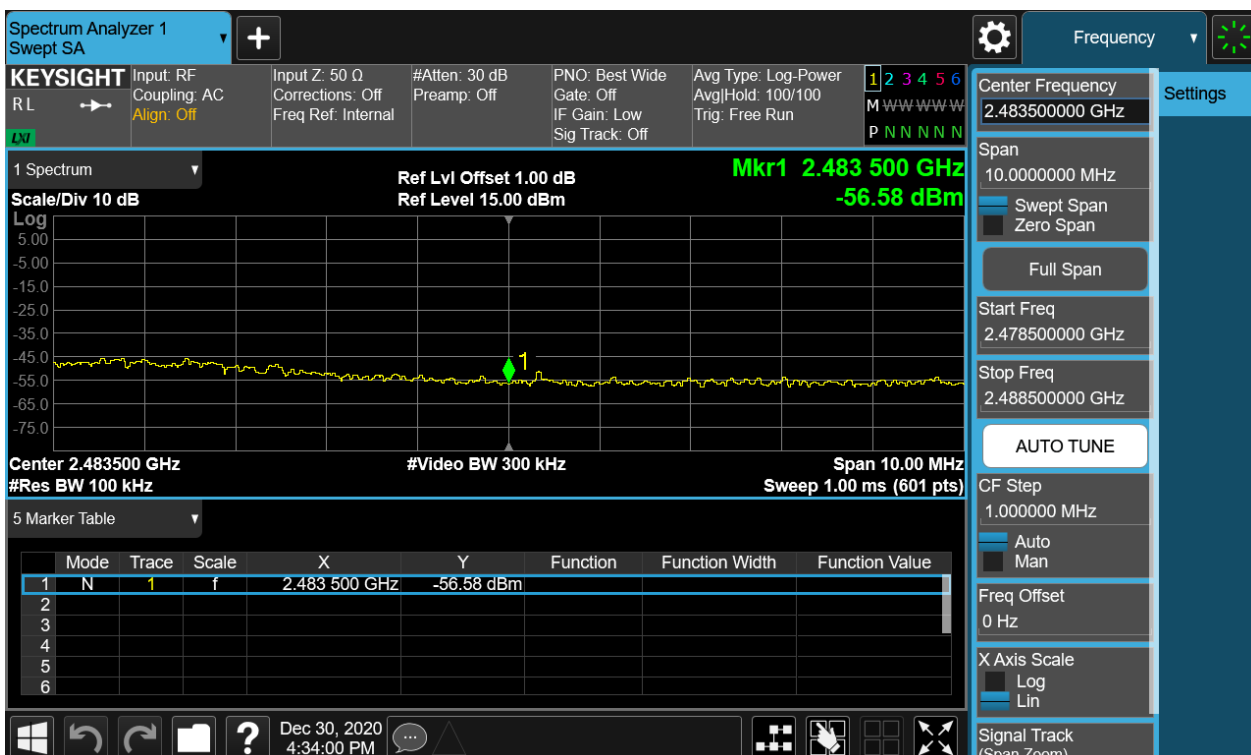
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



Band Edge



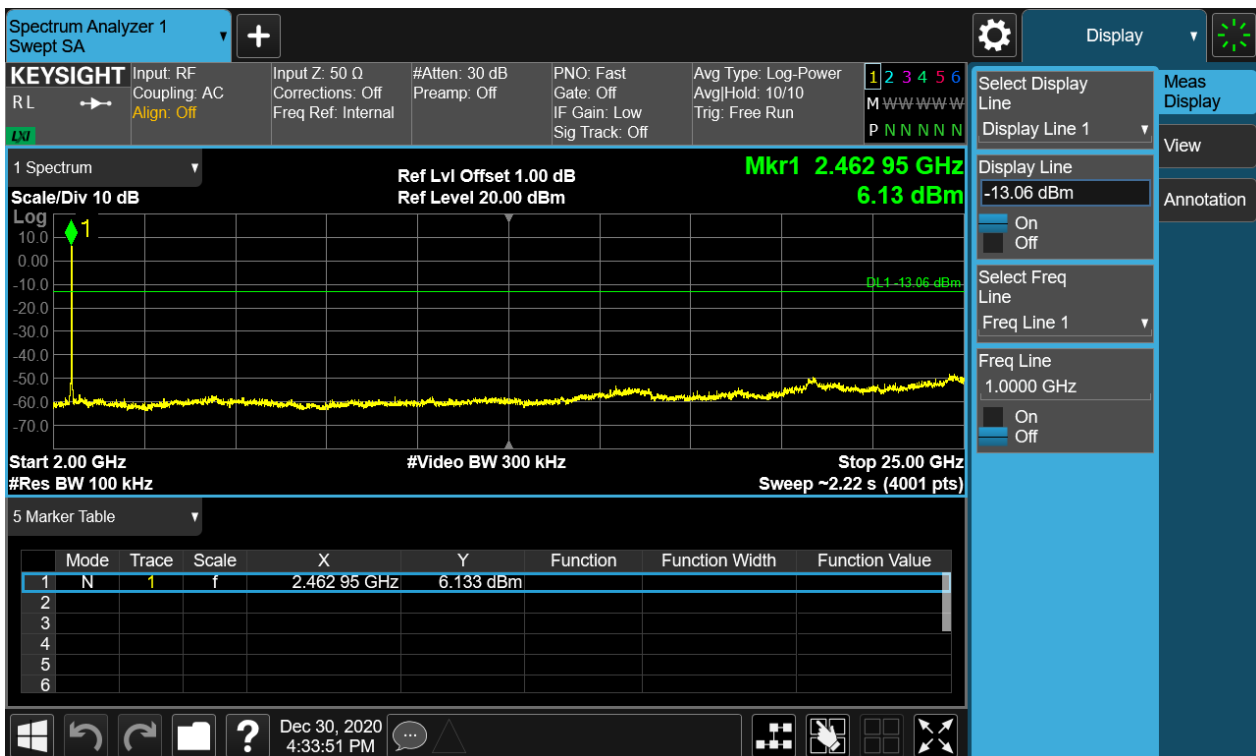
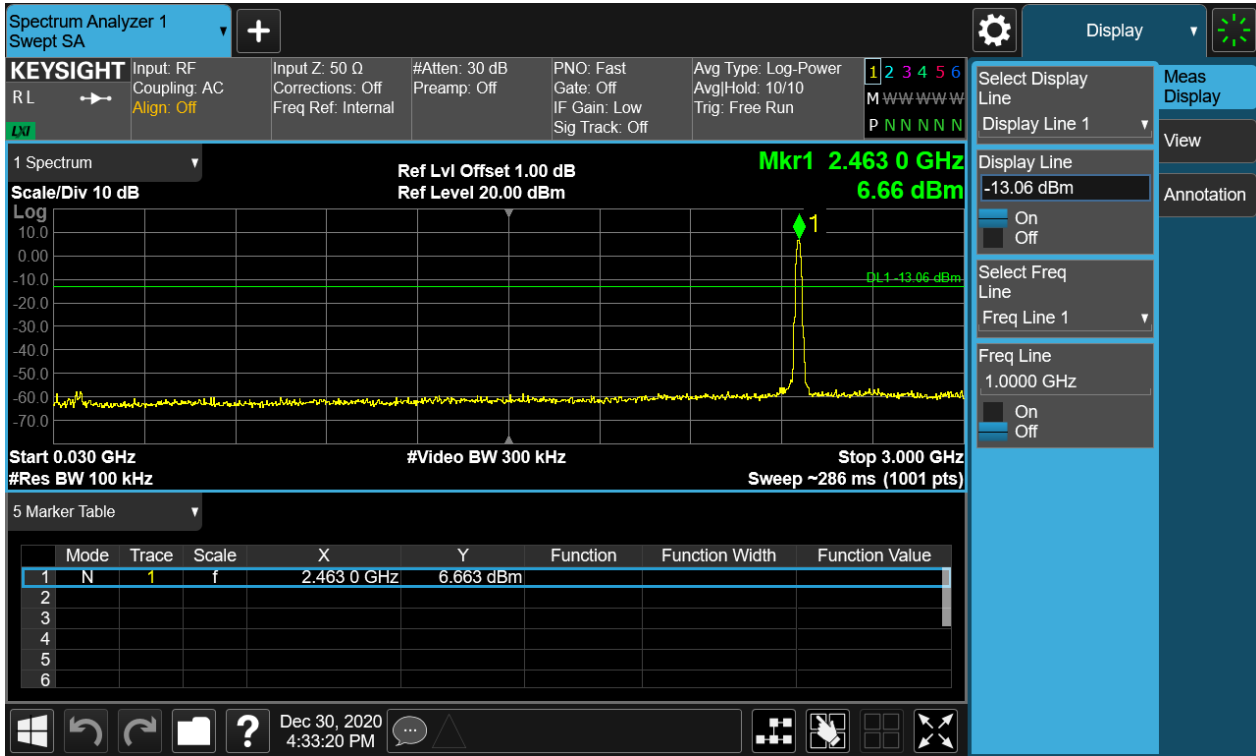
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Conducted spurious emissions 30MHz-25GHz



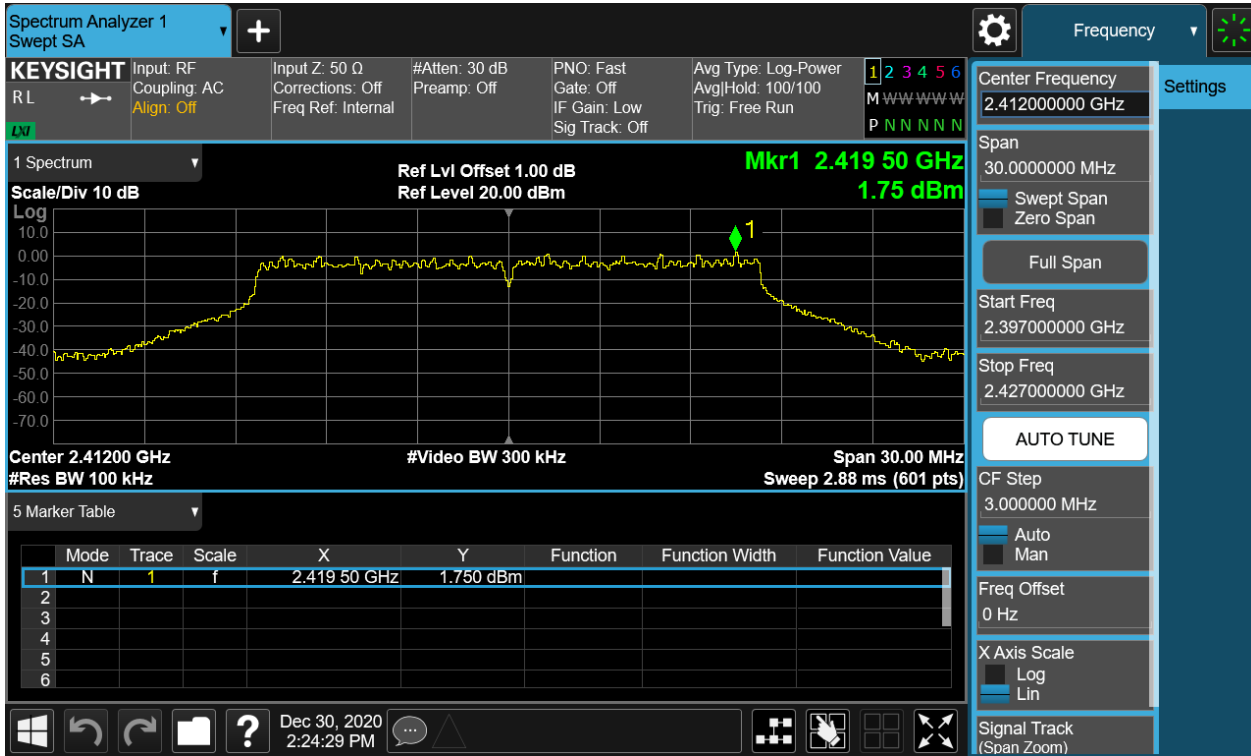
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



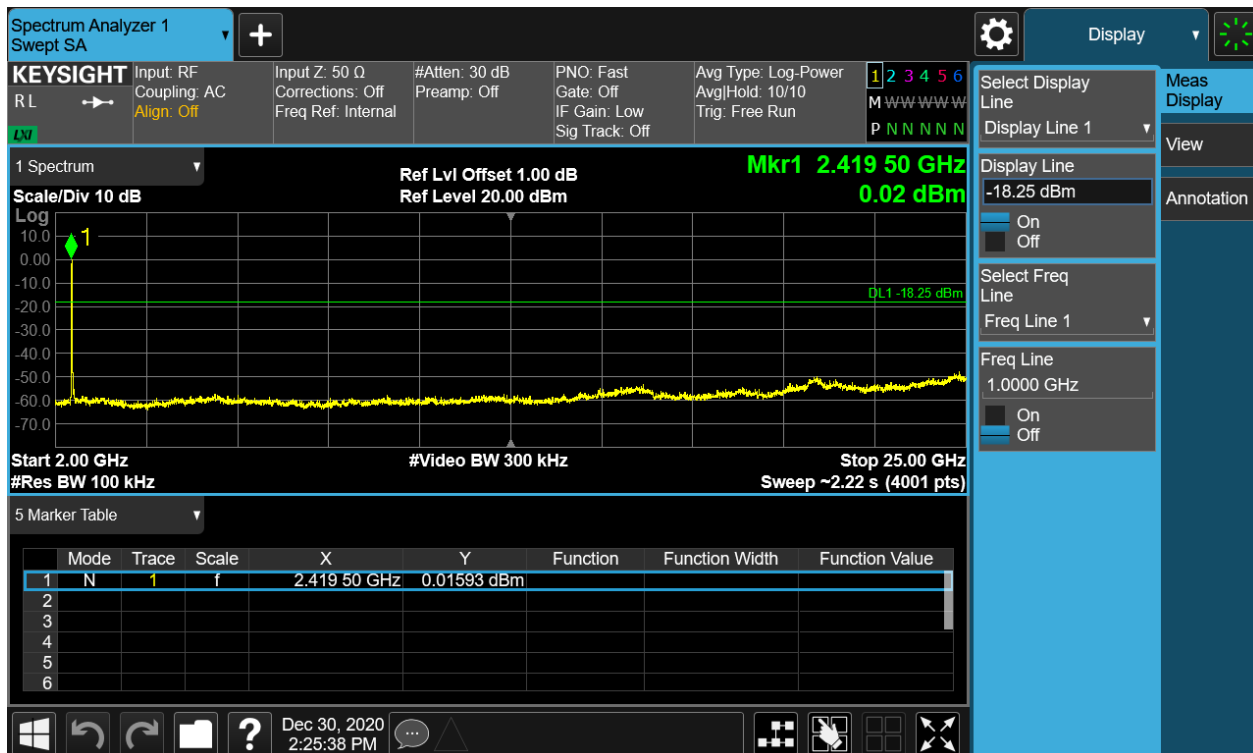
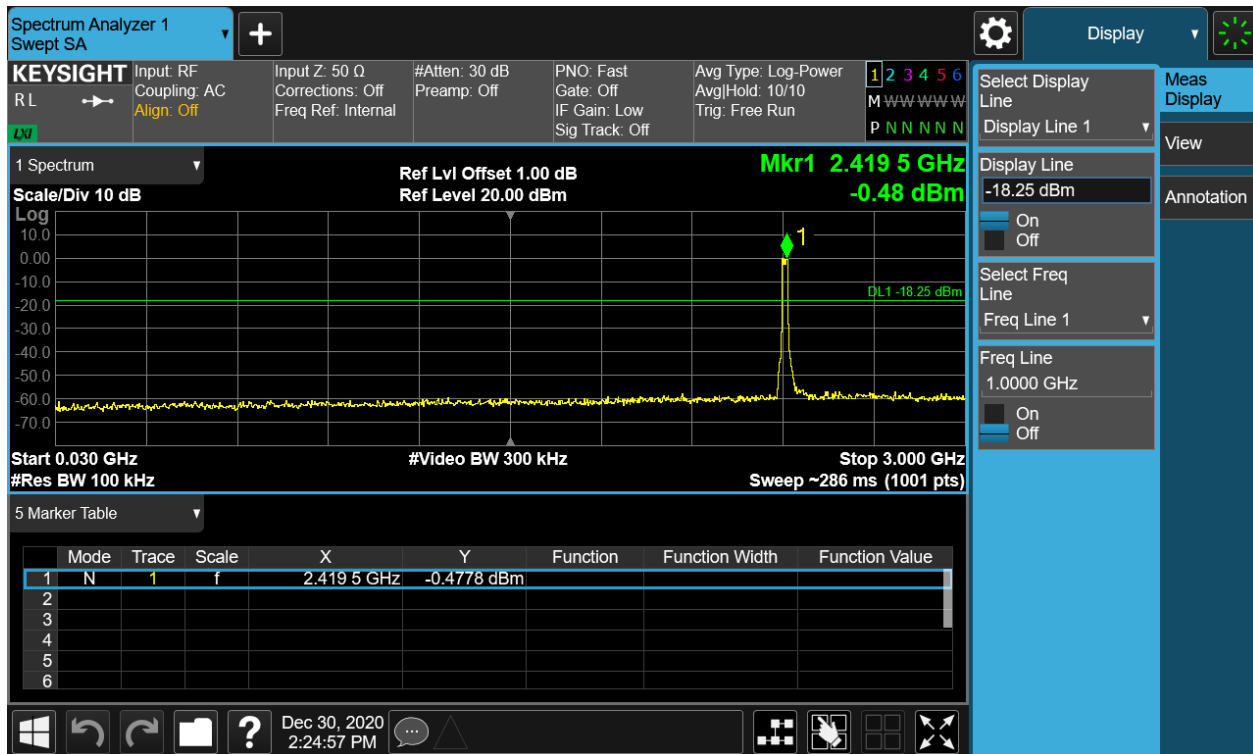
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Conducted spurious emissions 30MHz-25GHz



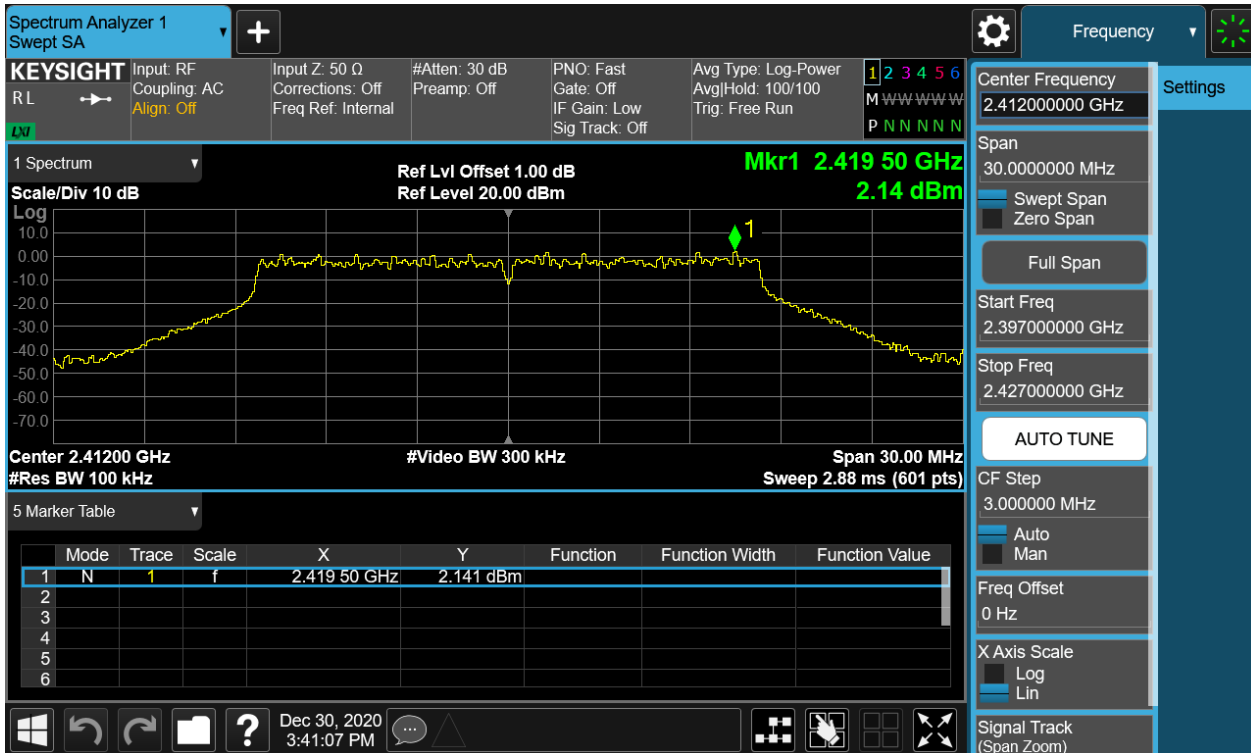
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



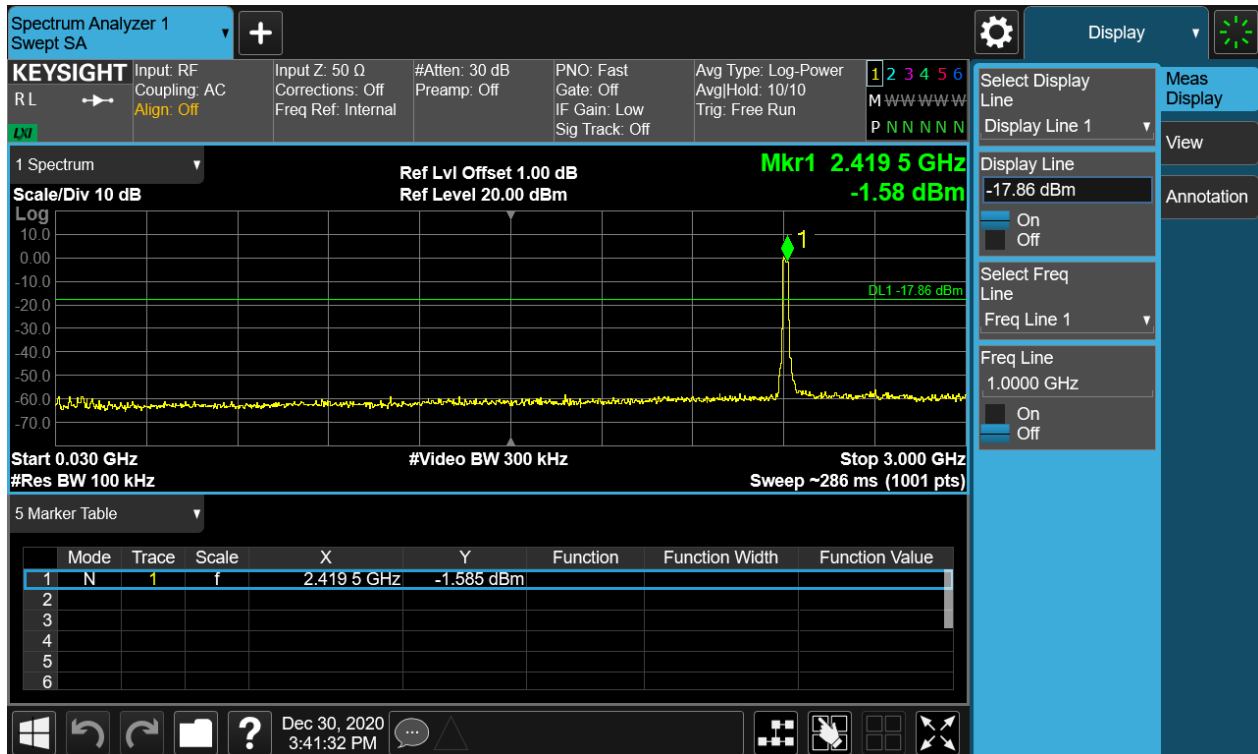
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Conducted spurious emissions 30MHz-25GHz



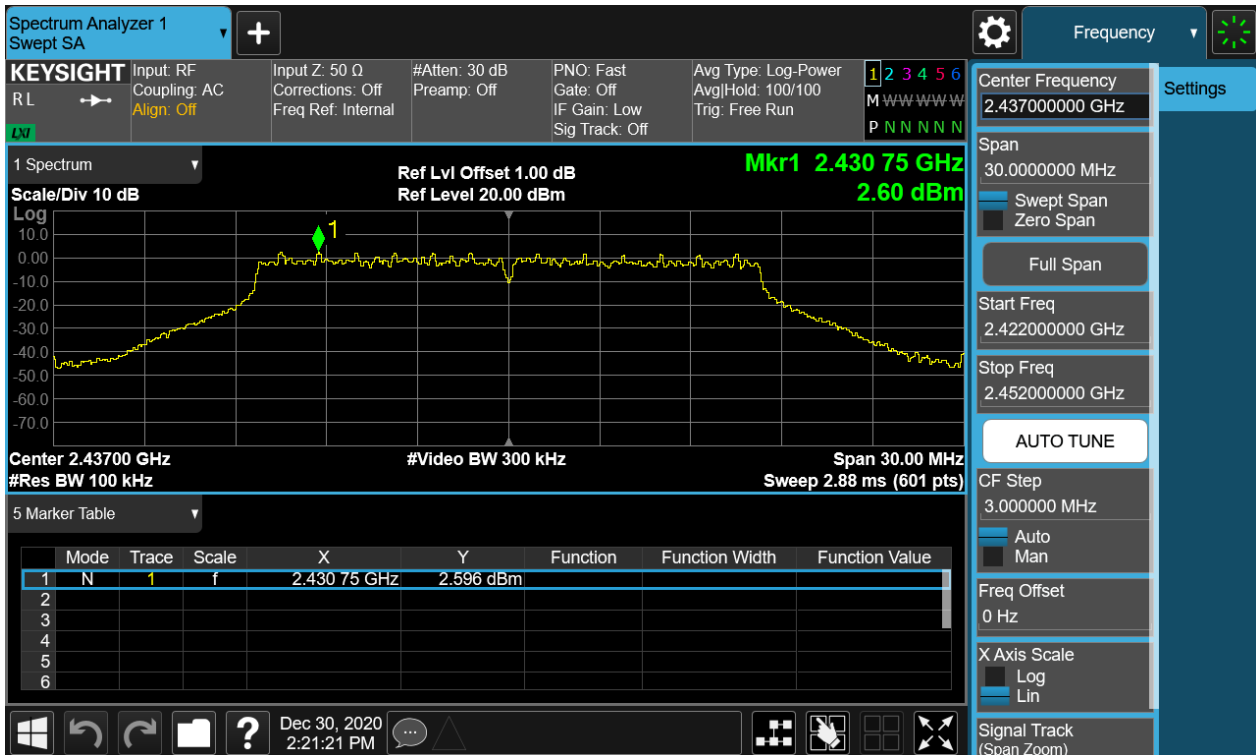
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



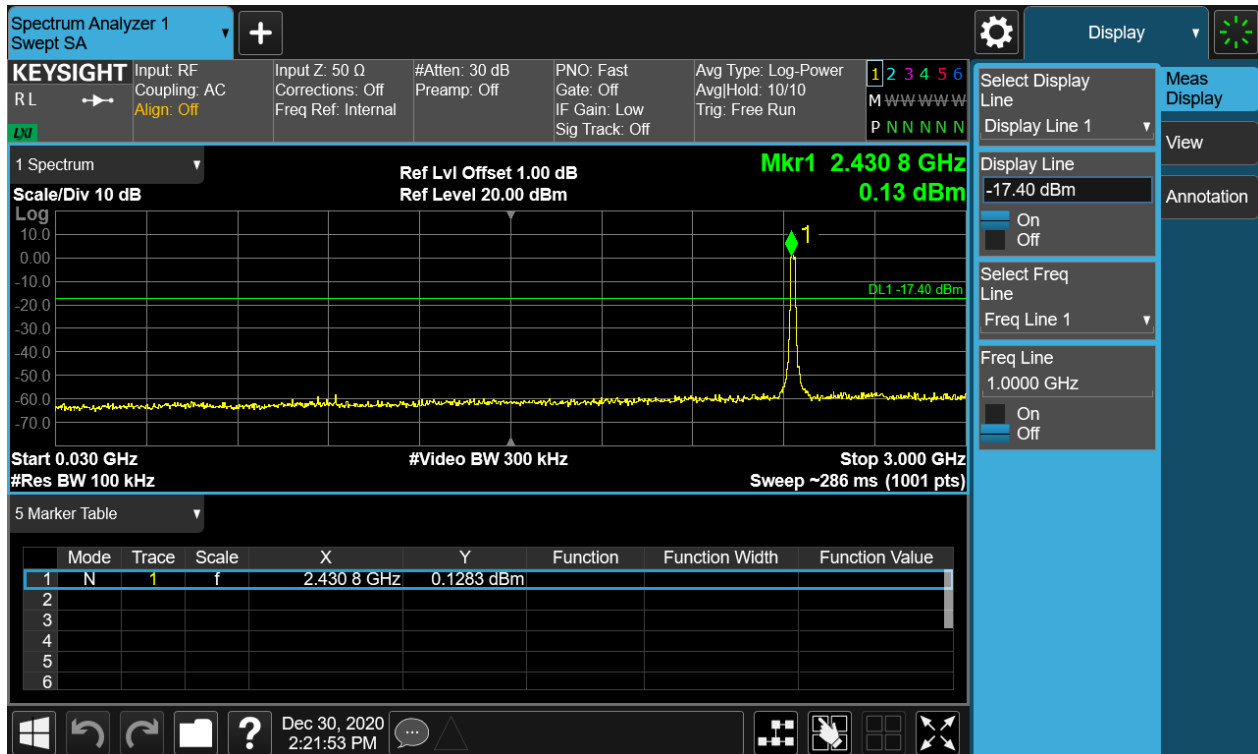
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Conducted spurious emissions 30MHz-25GHz



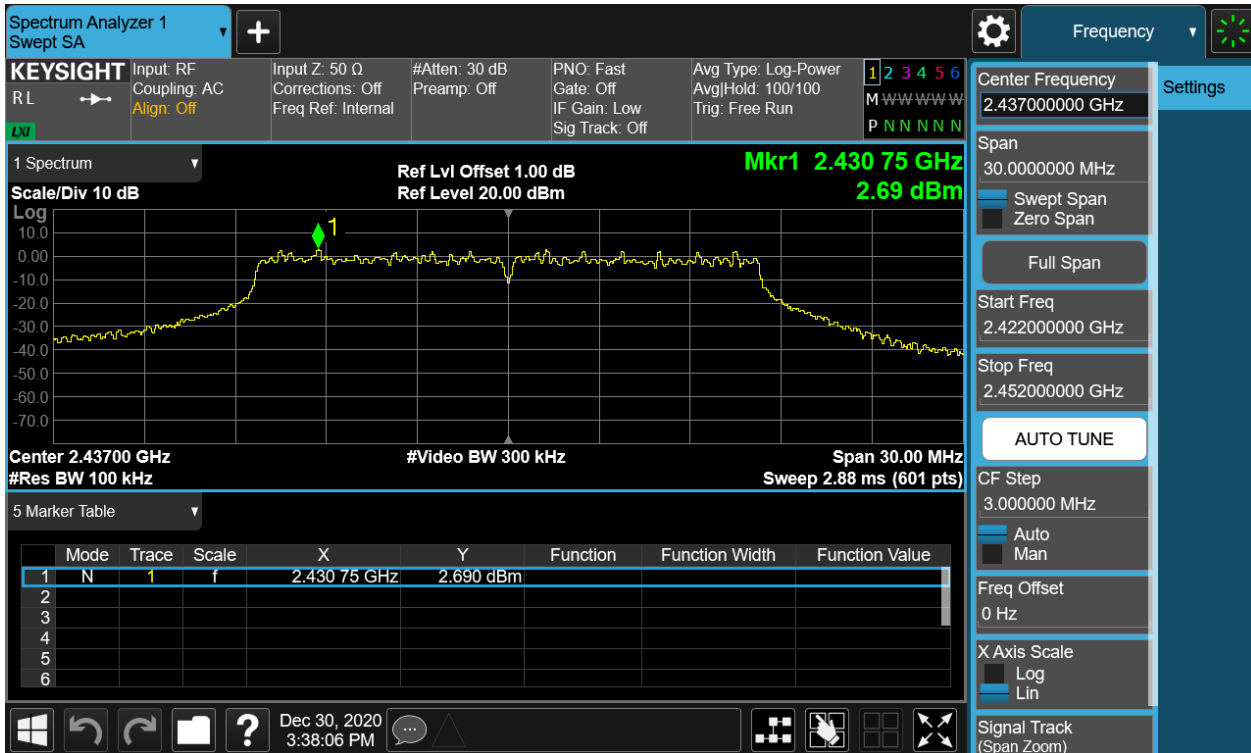
TEST REPORT

Report No.: SHE20120008-02CE

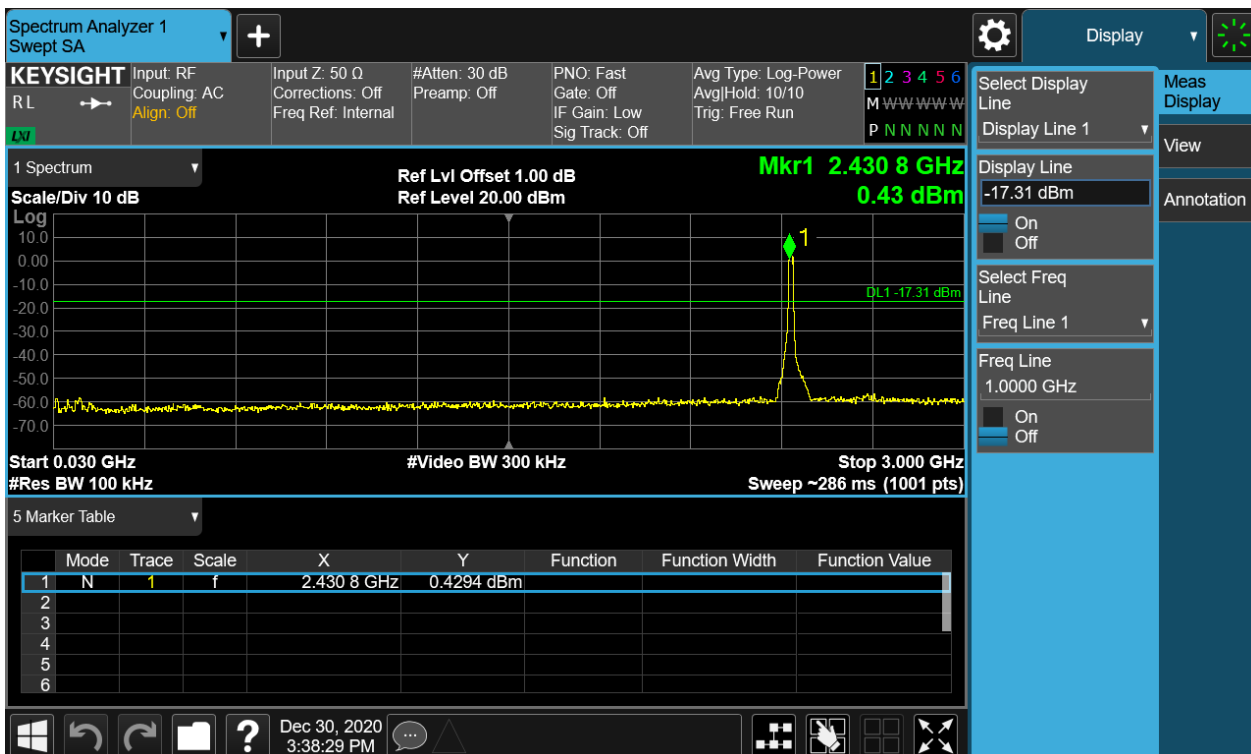
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

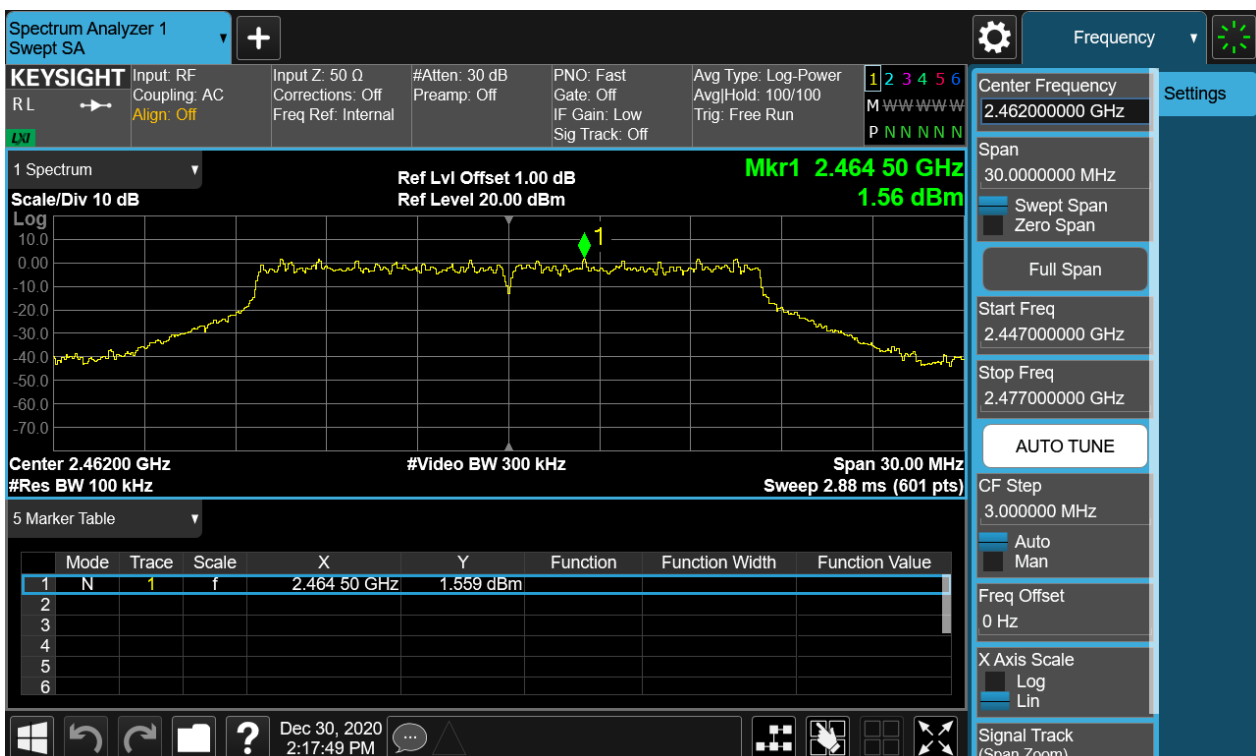
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



TEST REPORT

Report No.: SHE20120008-02CE

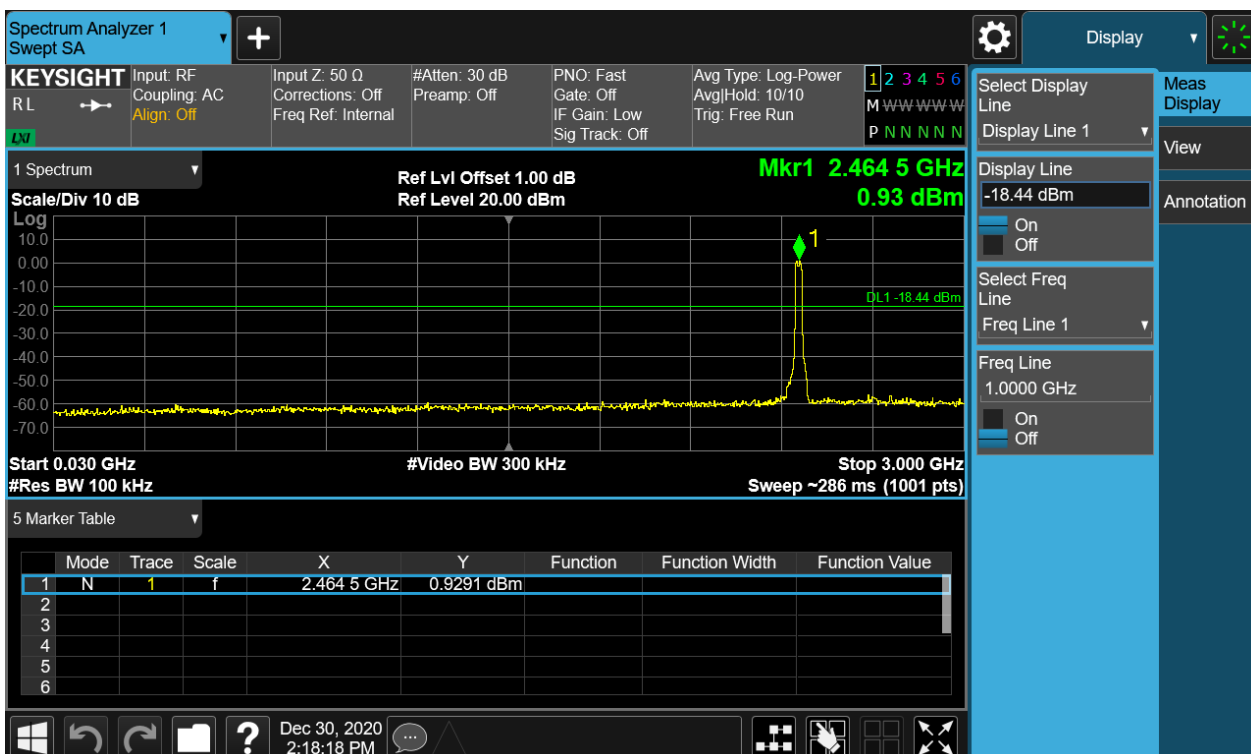
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Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

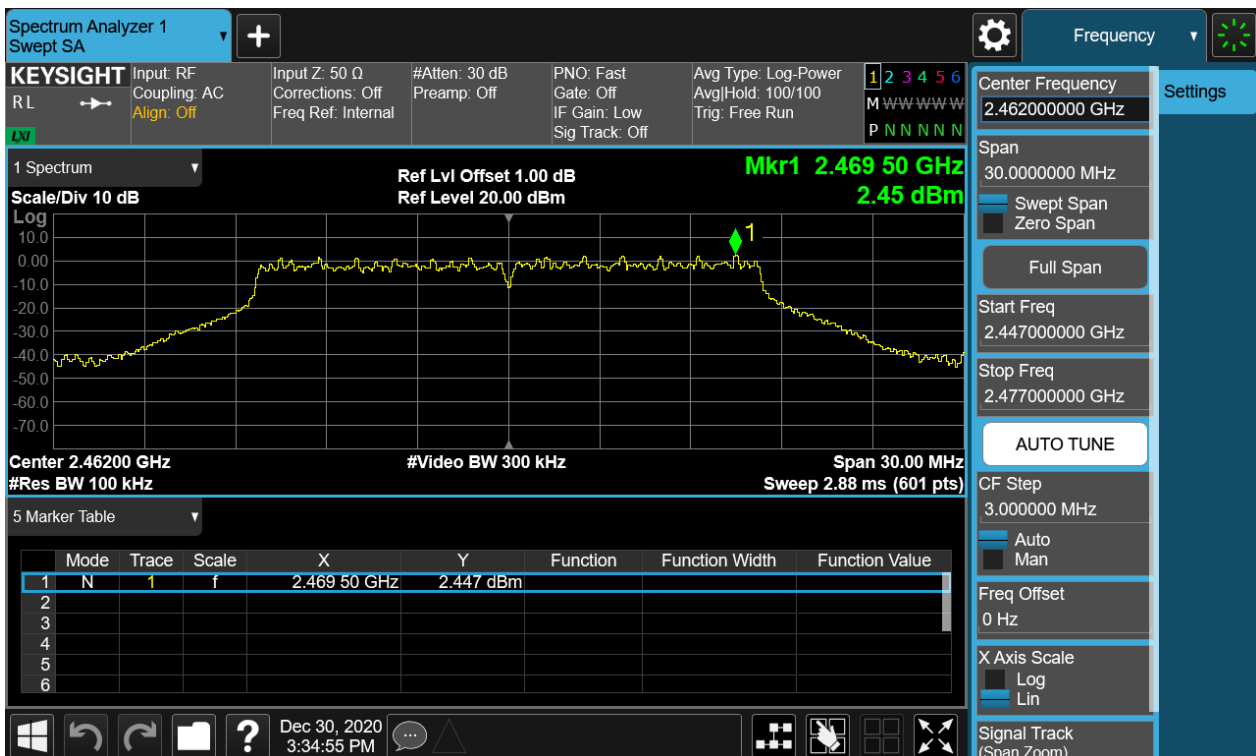
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



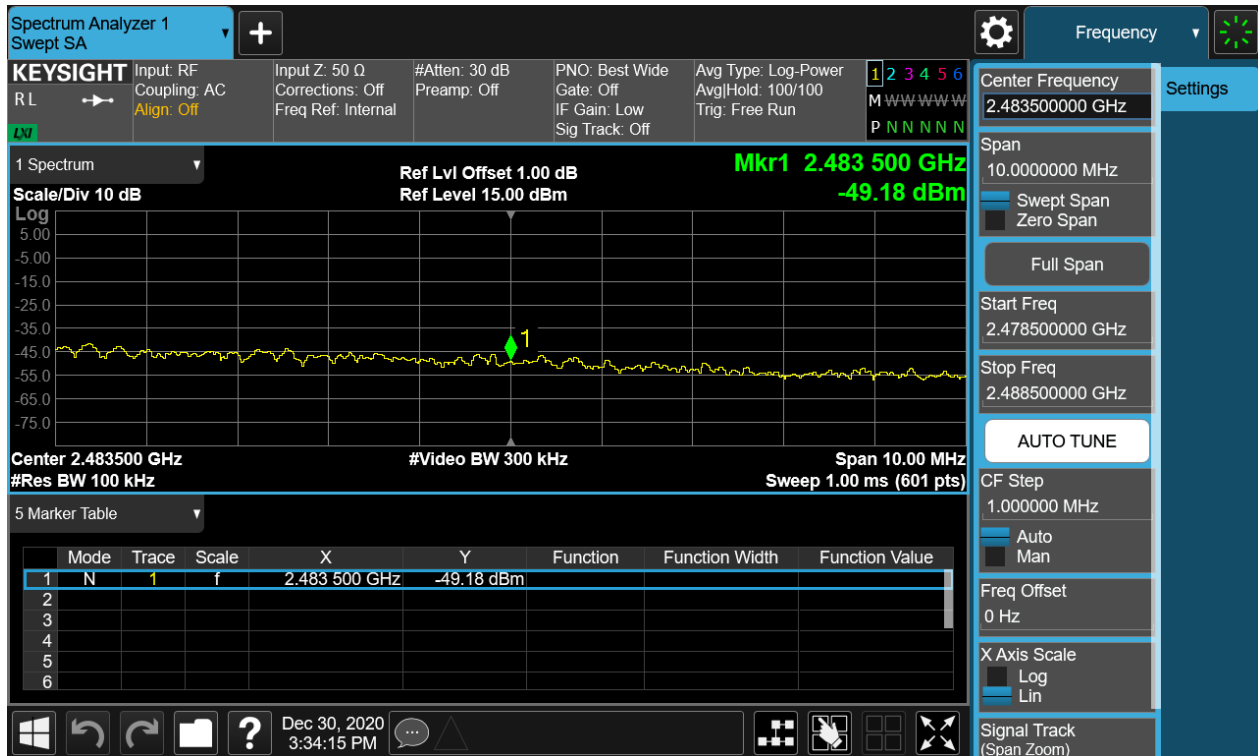
TEST REPORT

Report No.: SHE20120008-02CE

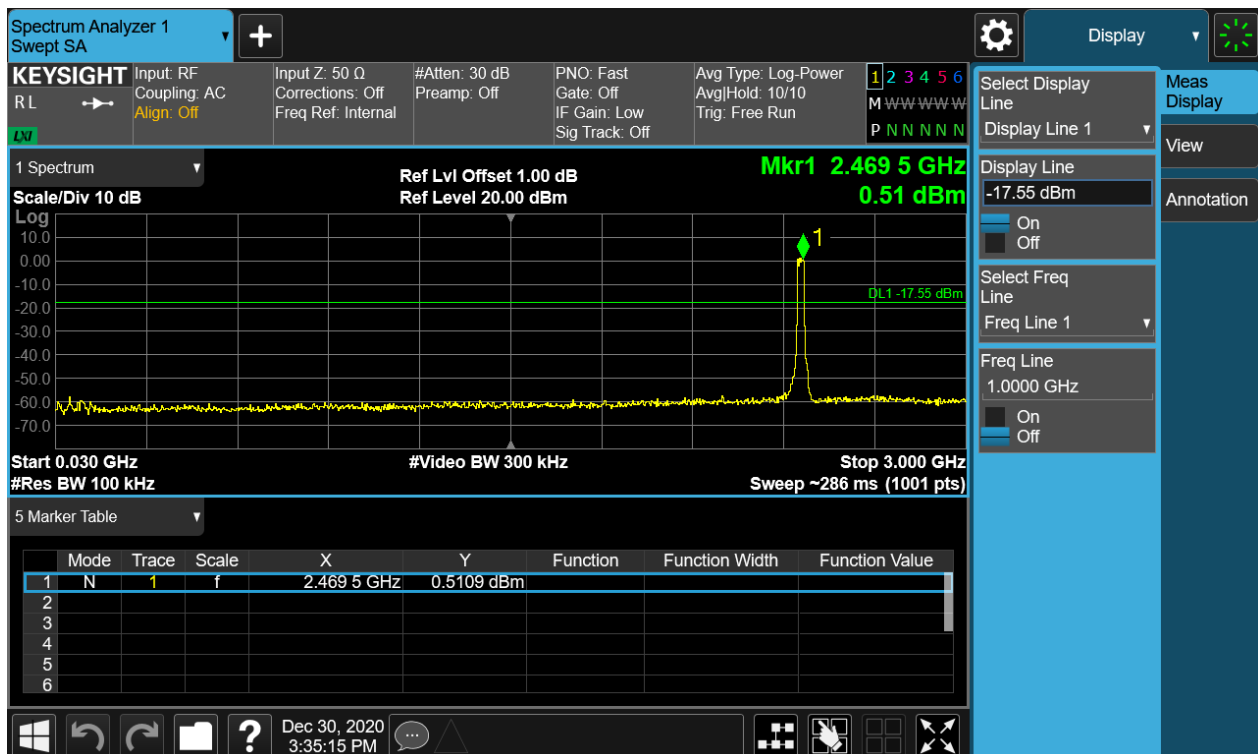
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Band Edge



Conducted spurious emissions 30MHz-25GHz

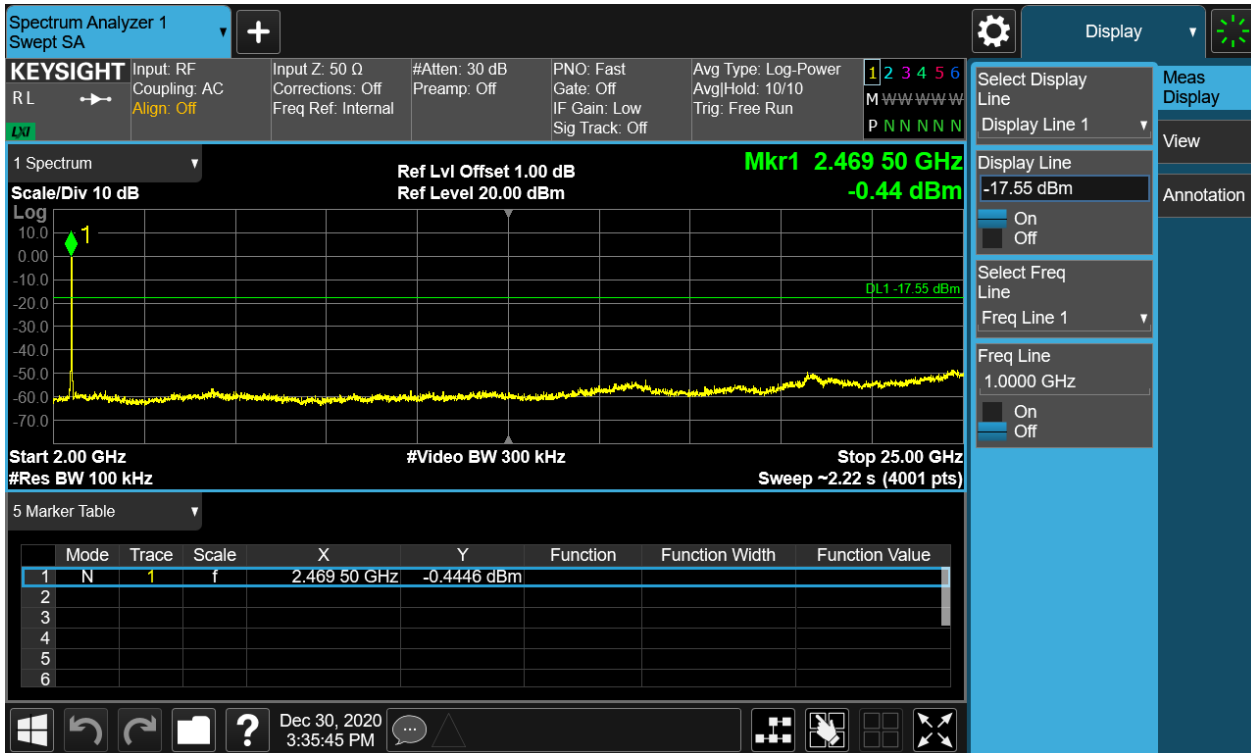


TEST REPORT

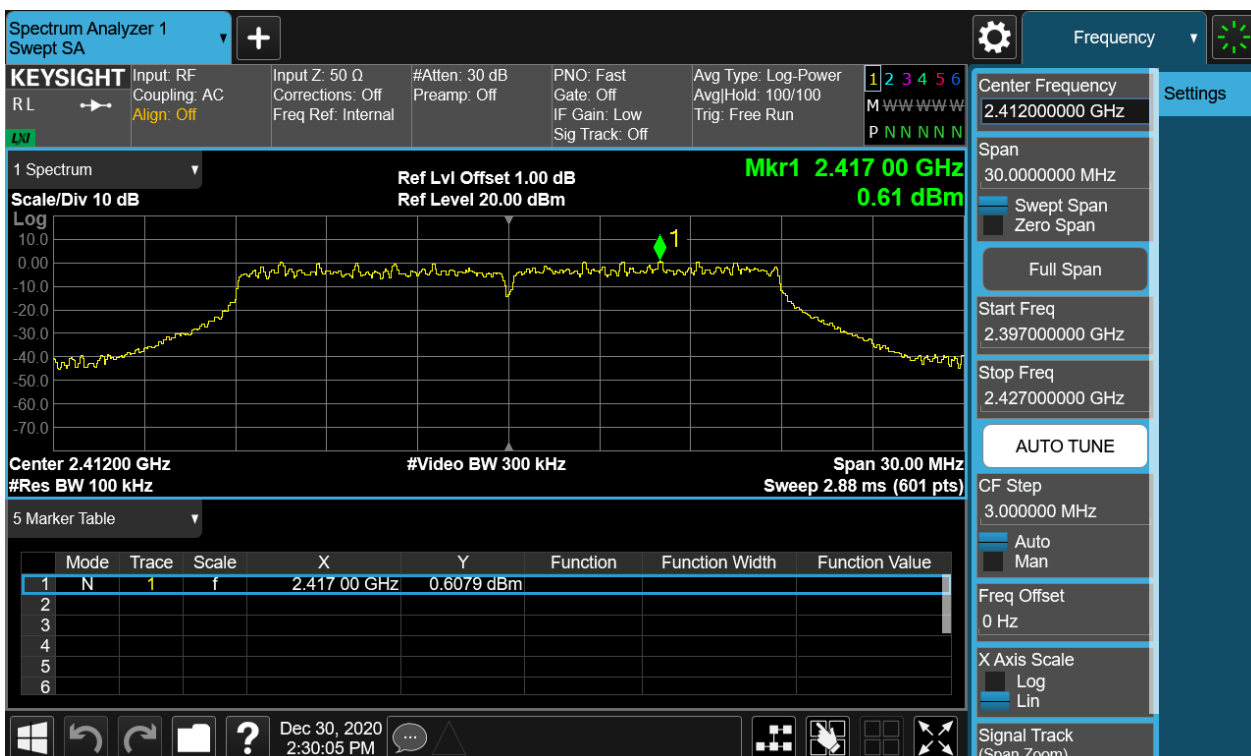
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



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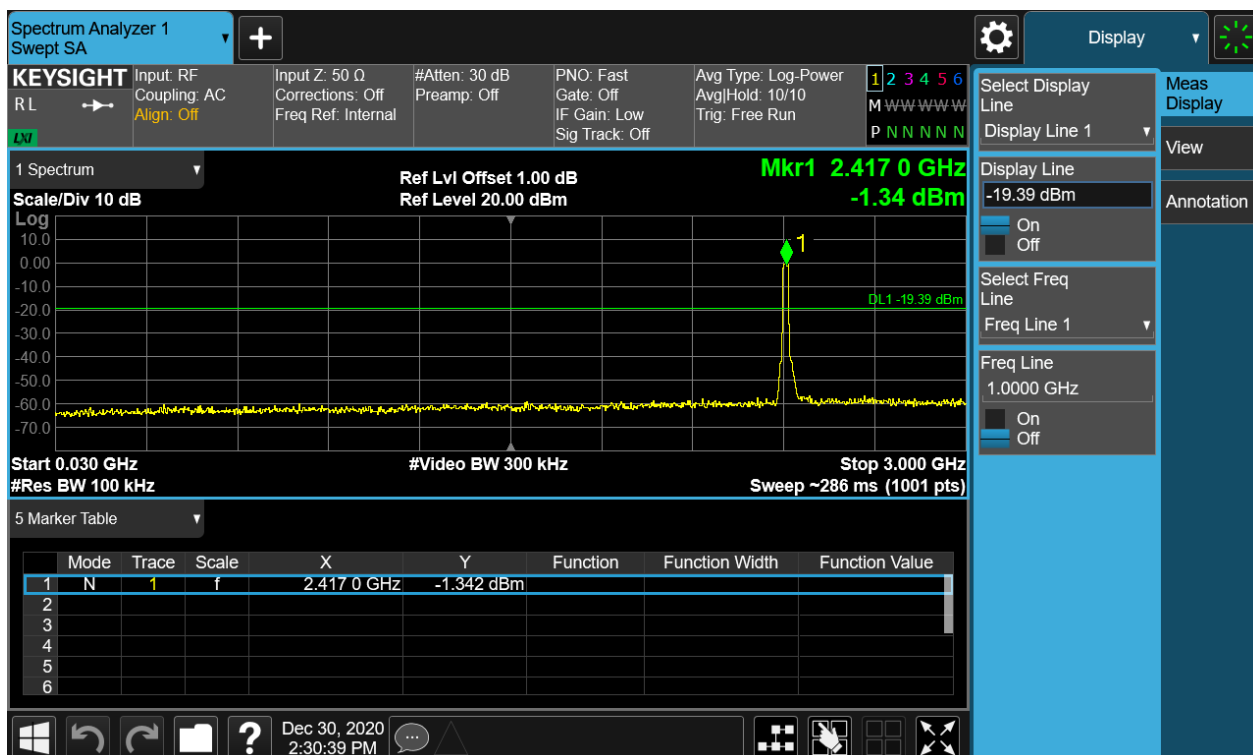
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Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

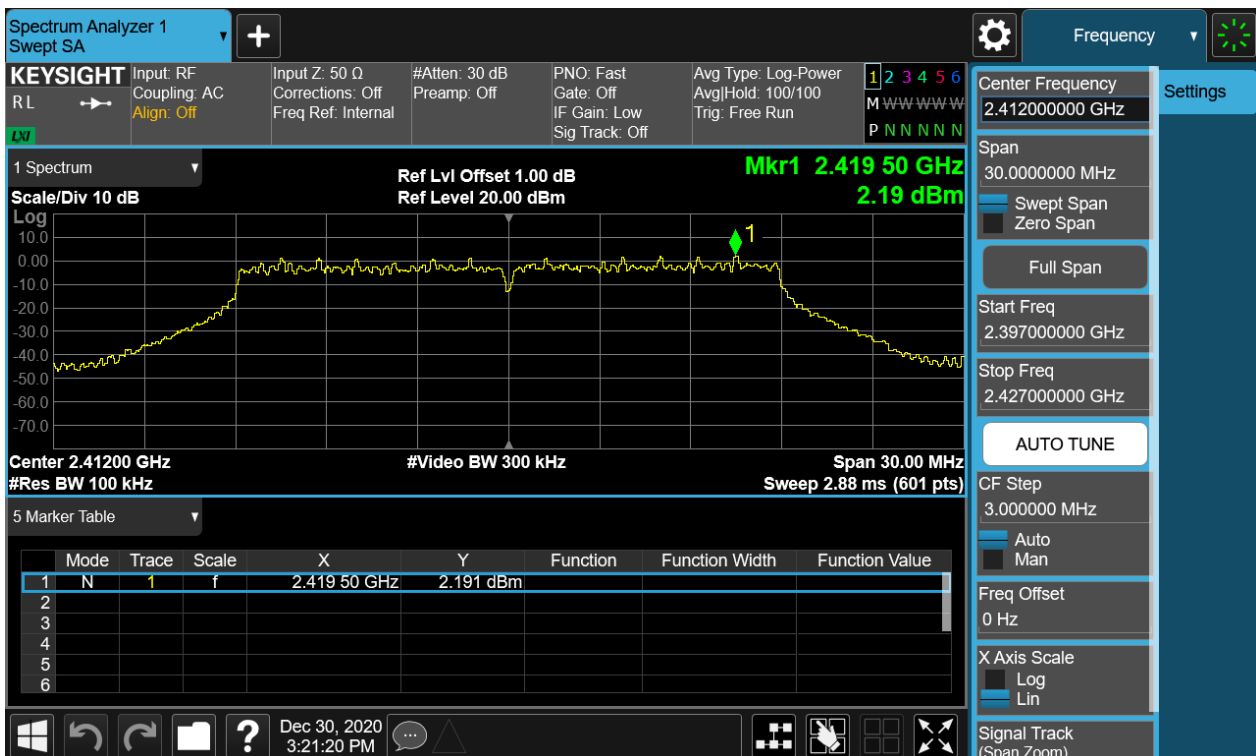
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



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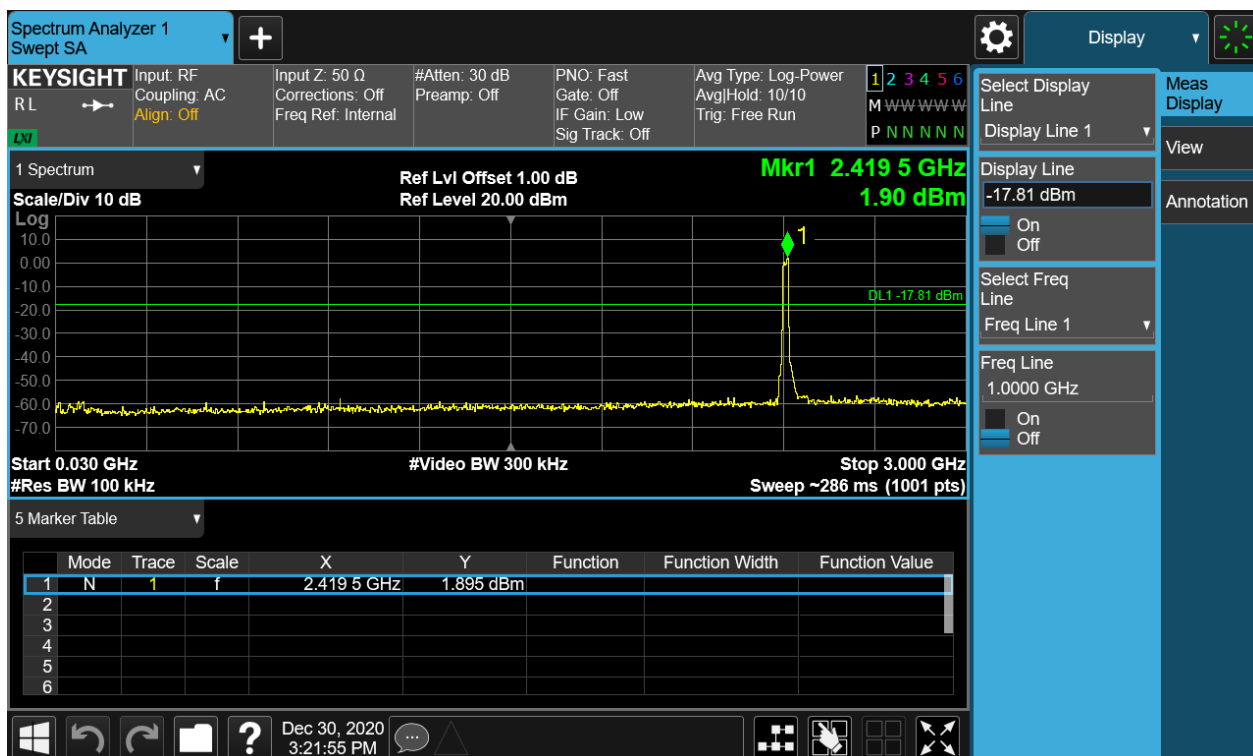
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Band Edge



Conducted spurious emissions 30MHz-25GHz

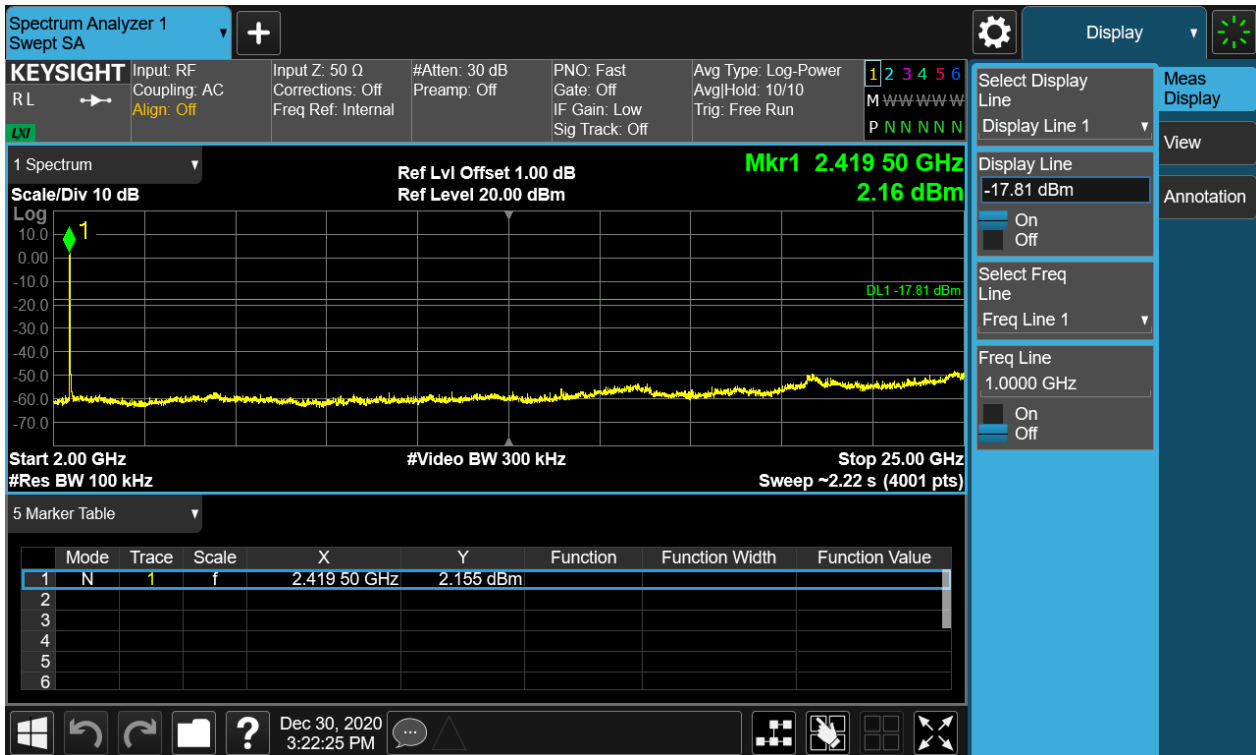


TEST REPORT

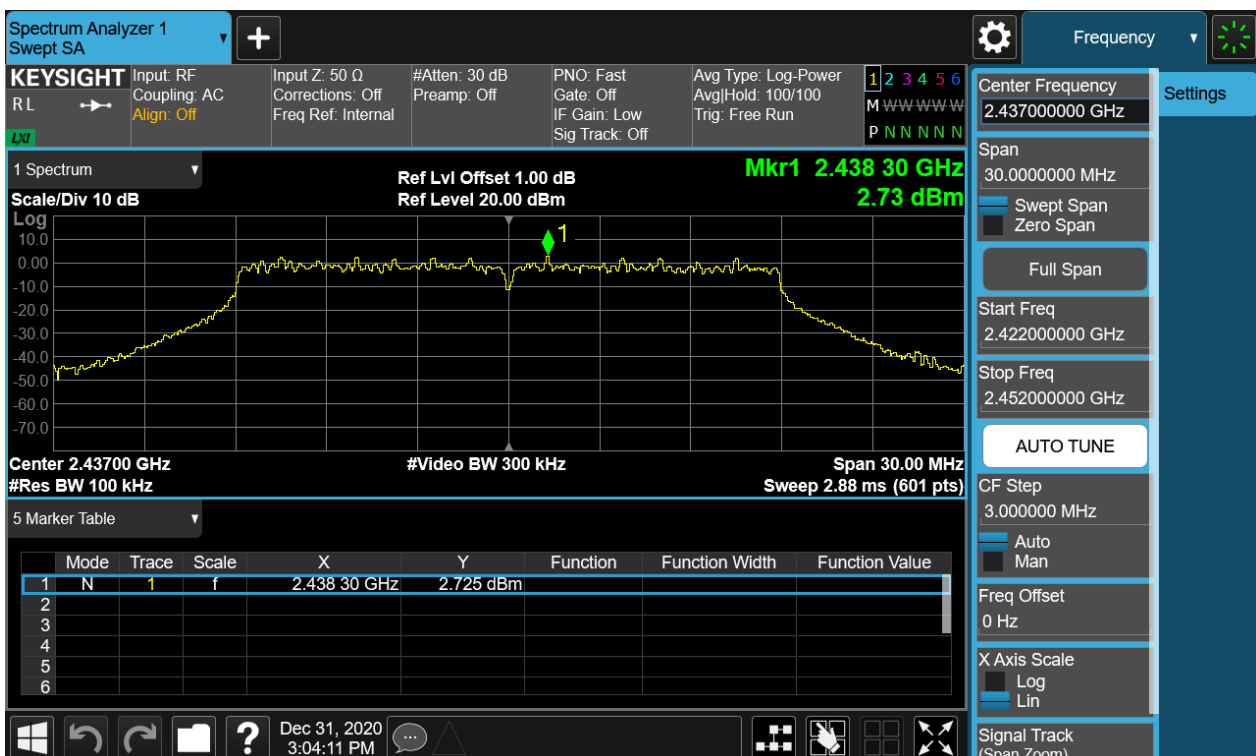
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



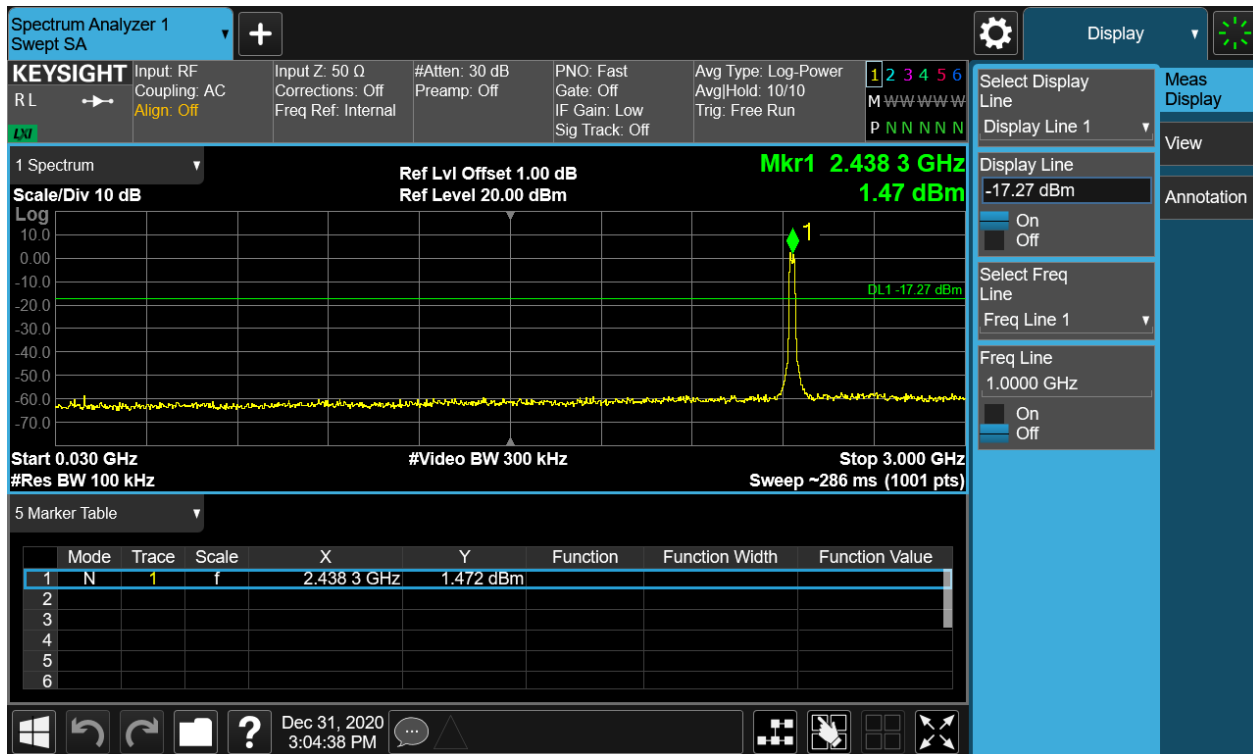
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Conducted spurious emissions 30MHz-25GHz



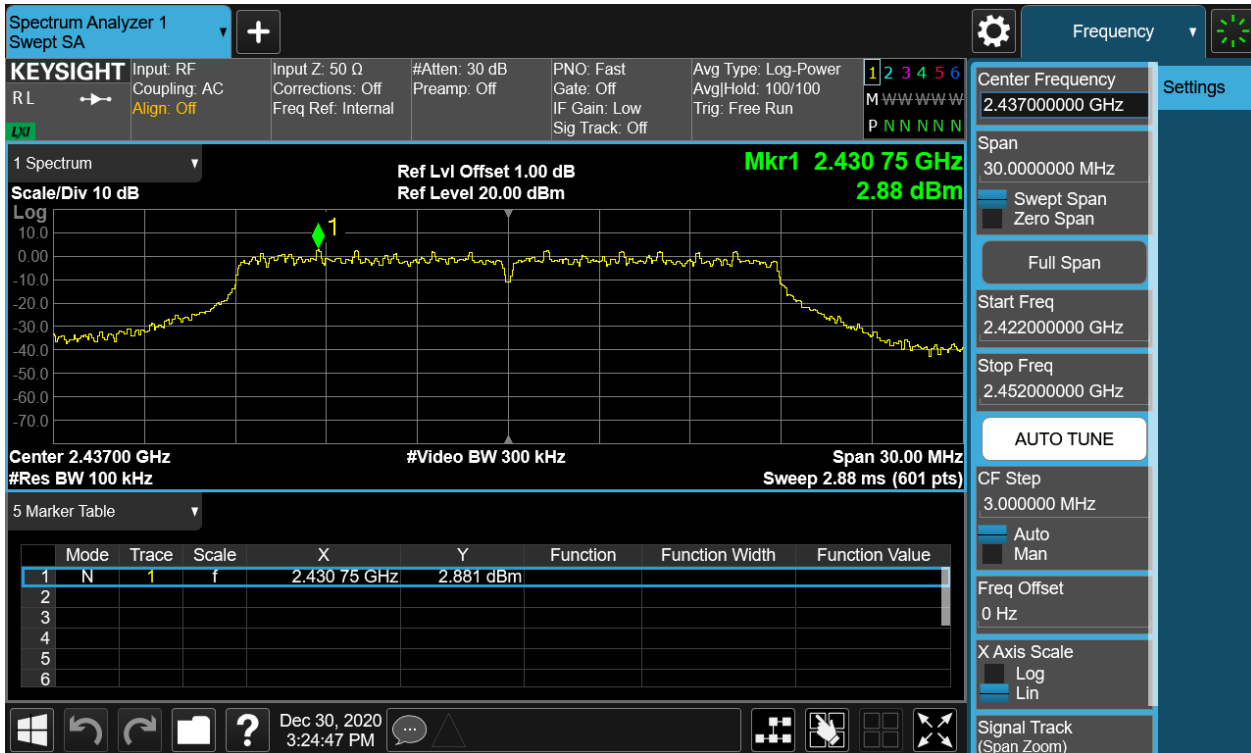
TEST REPORT

Report No.: SHE20120008-02CE

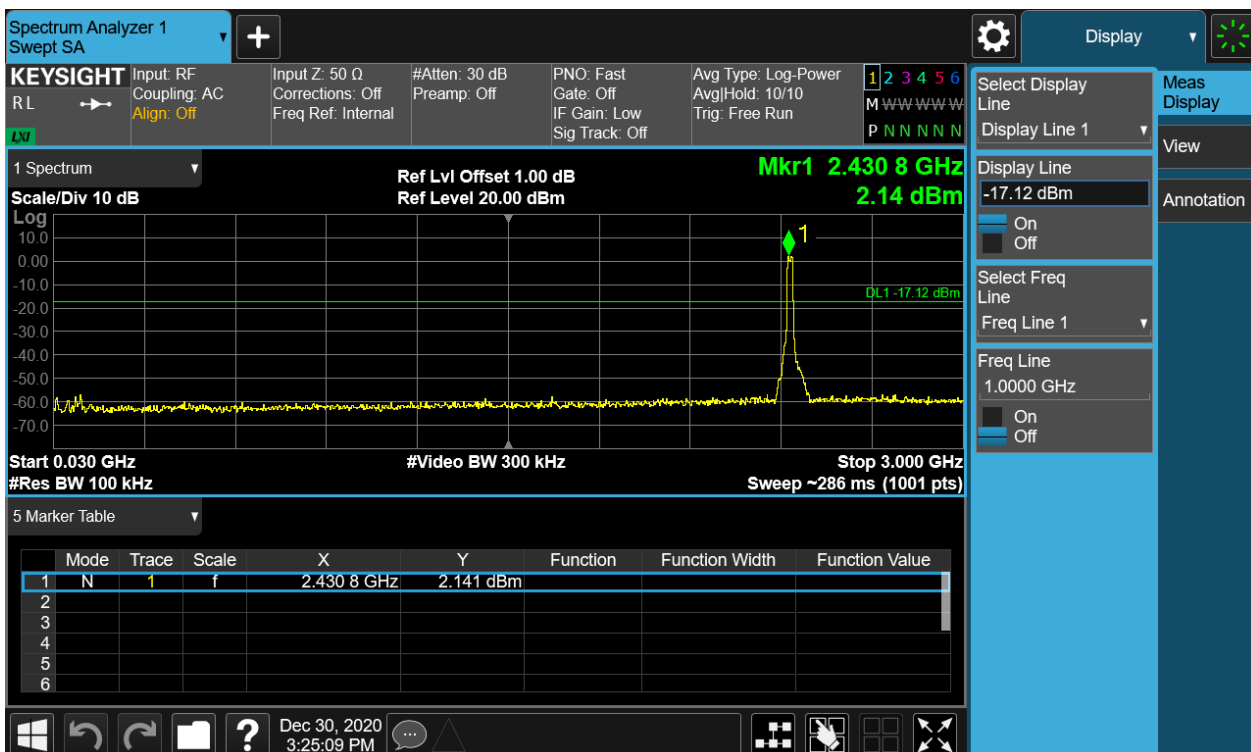
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

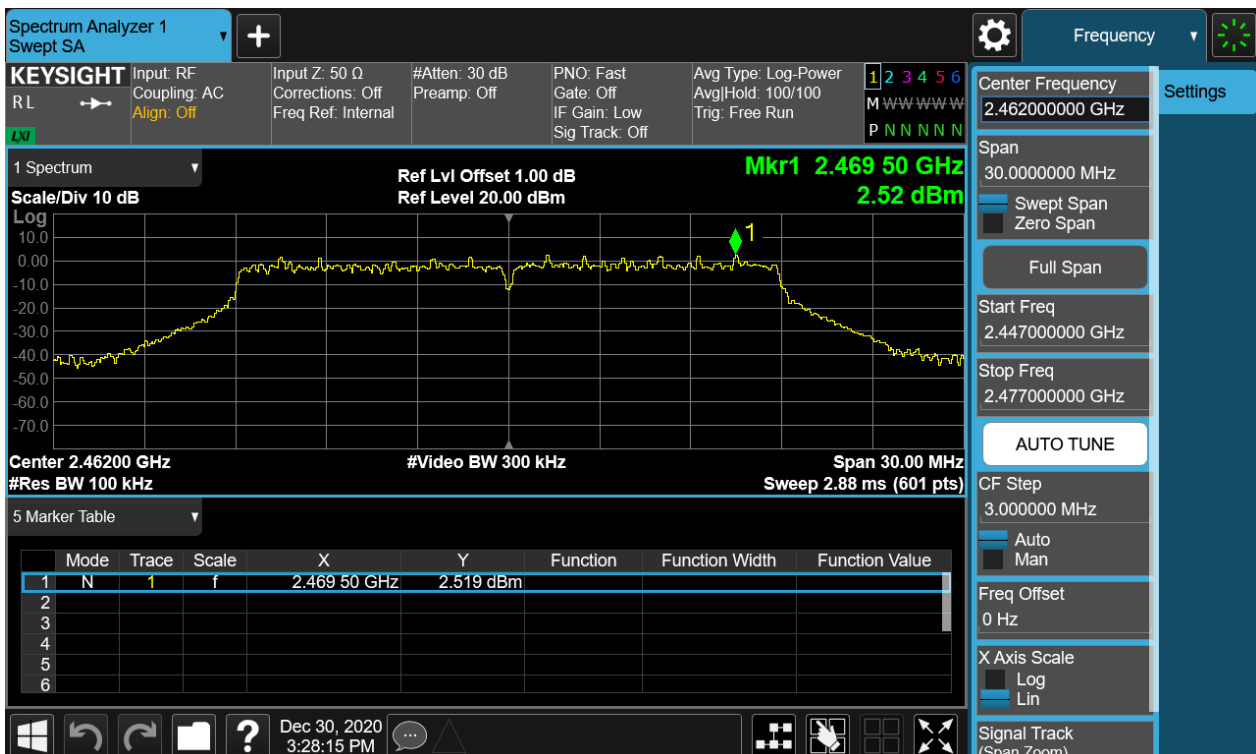
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



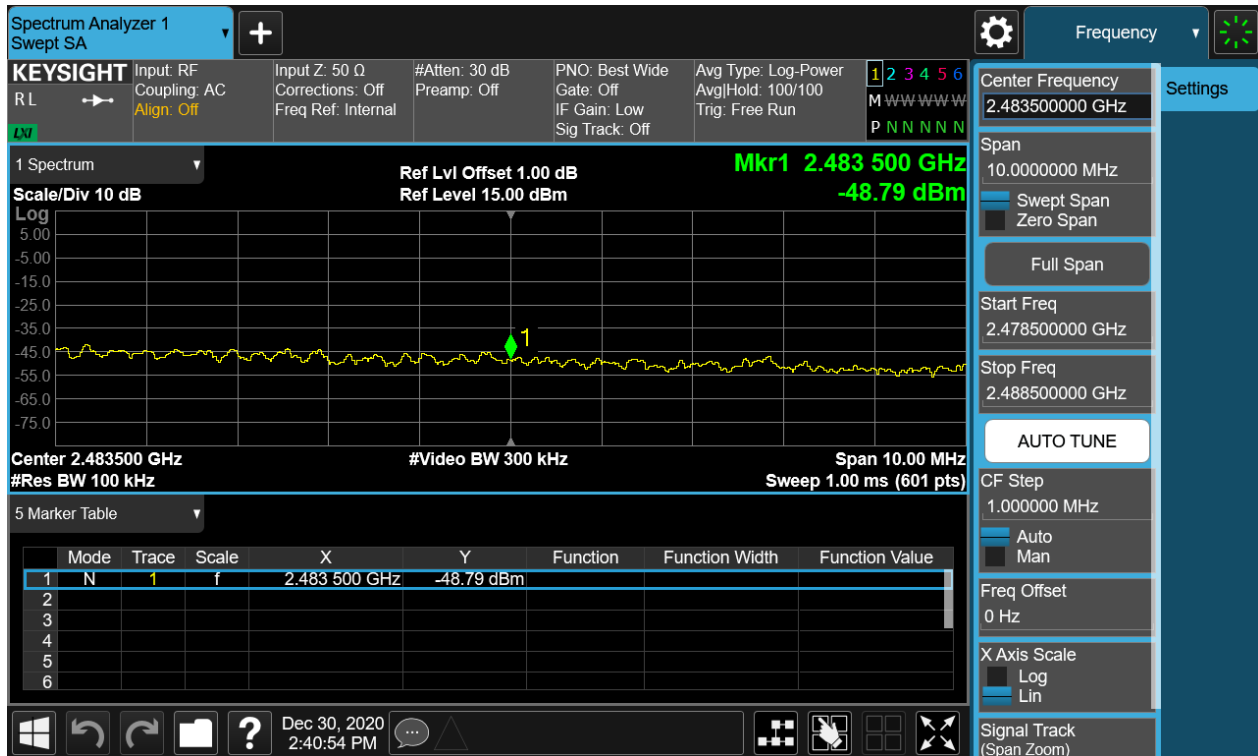
TEST REPORT

Report No.: SHE20120008-02CE

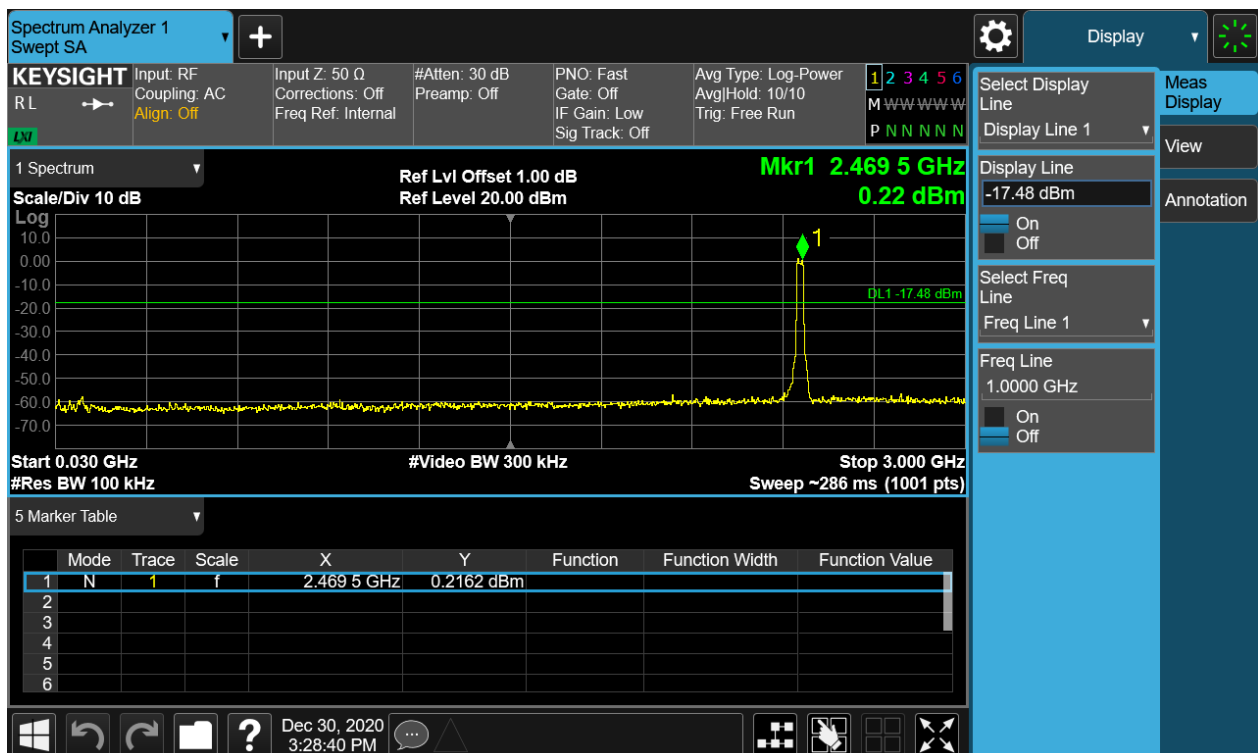
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Band Edge



Conducted spurious emissions 30MHz-25GHz



TEST REPORT

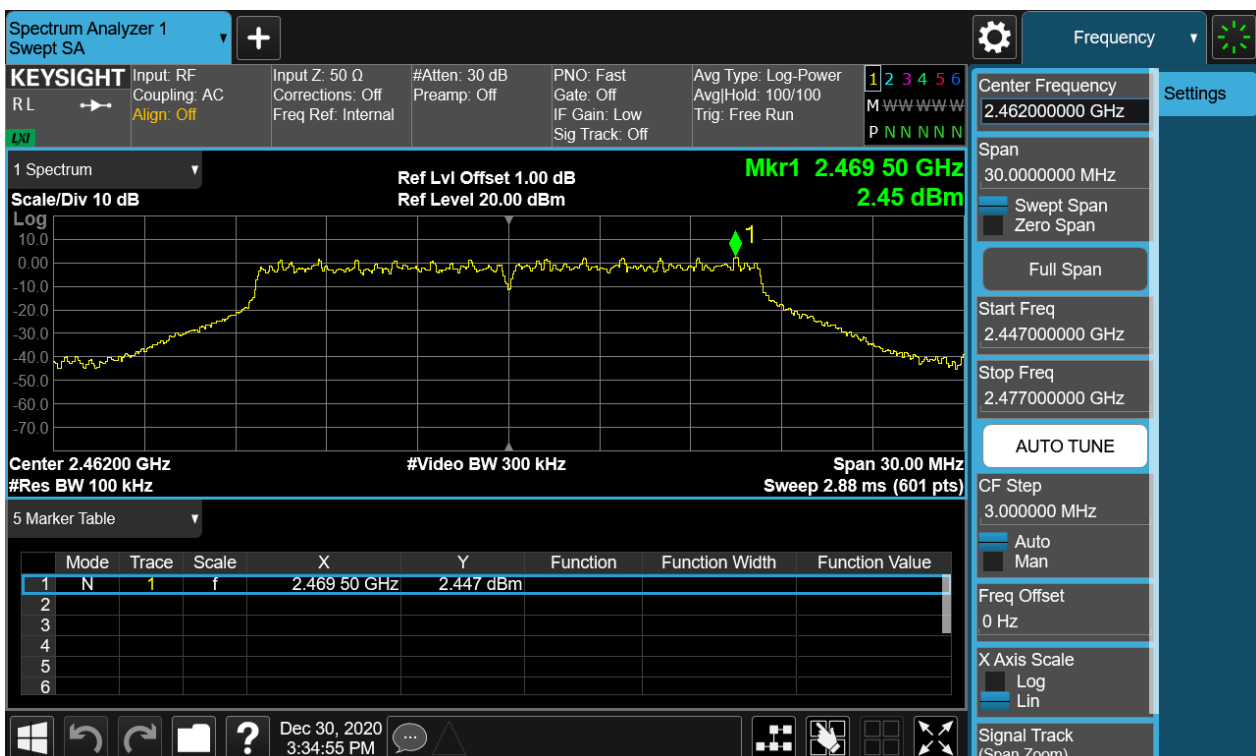
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Chain 1 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



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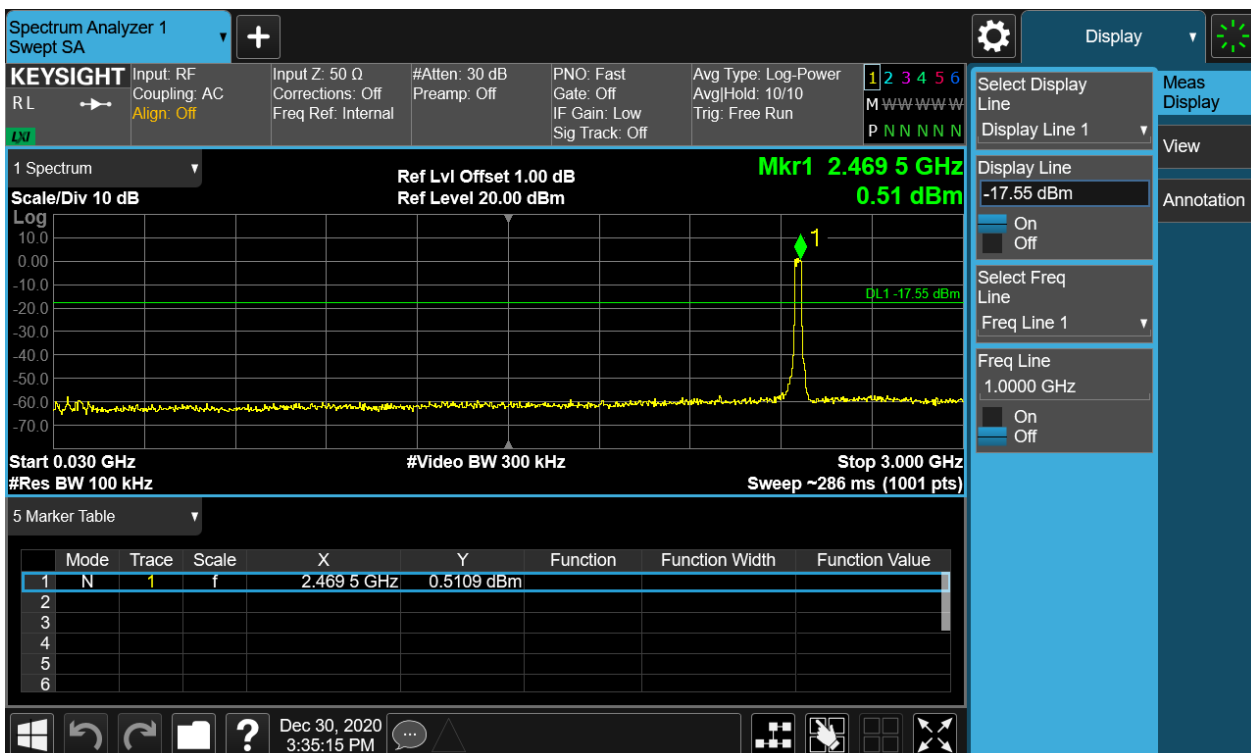
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Band Edge



Conducted spurious emissions 30MHz-25GHz

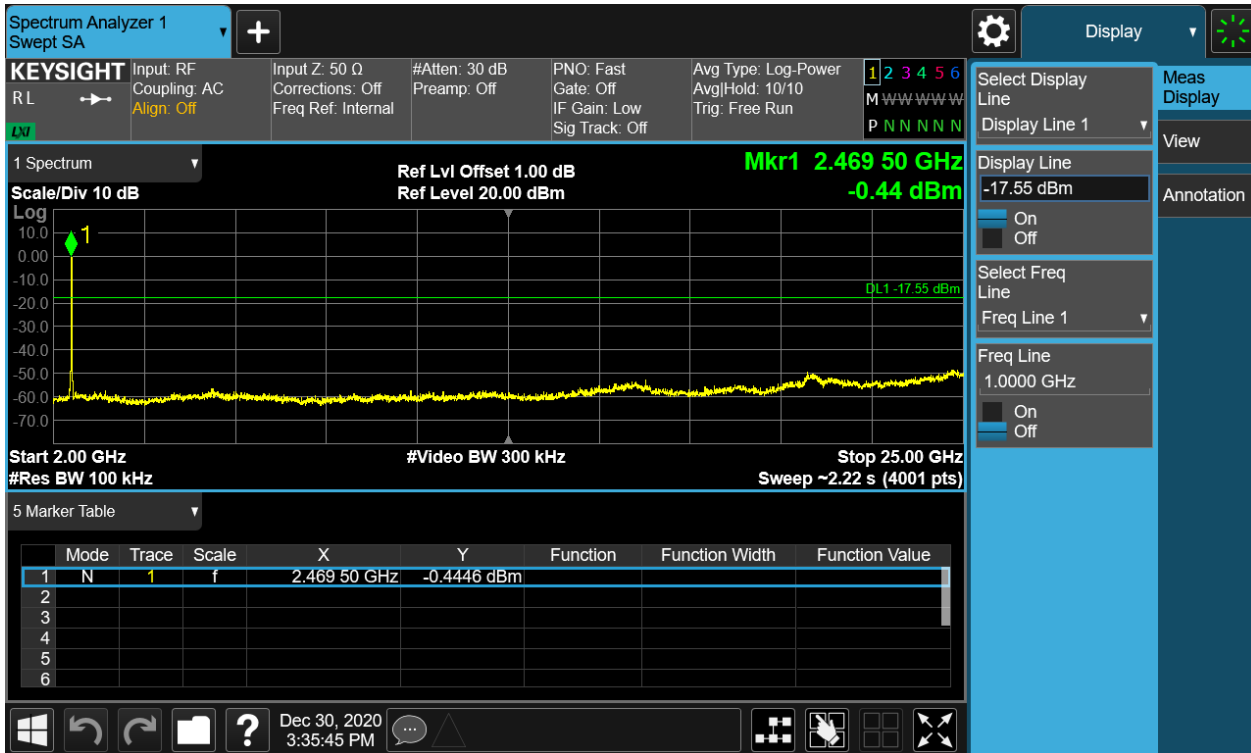


TEST REPORT

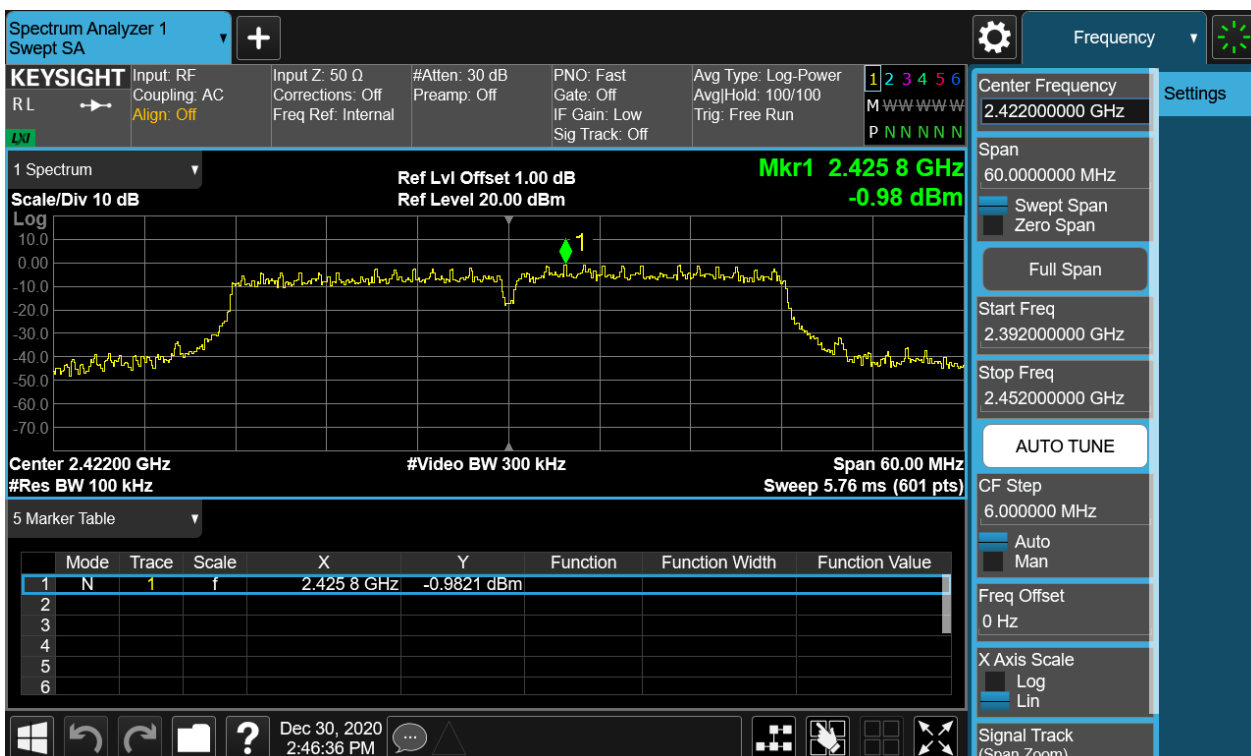
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Chain 0 Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT40), 2422MHz Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz

