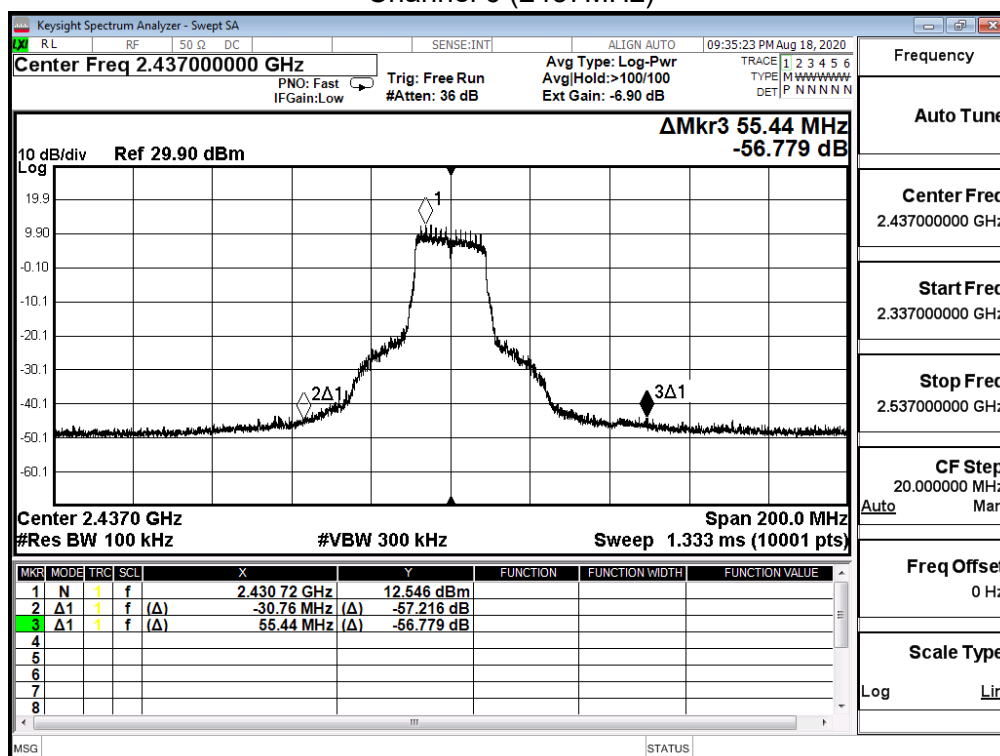
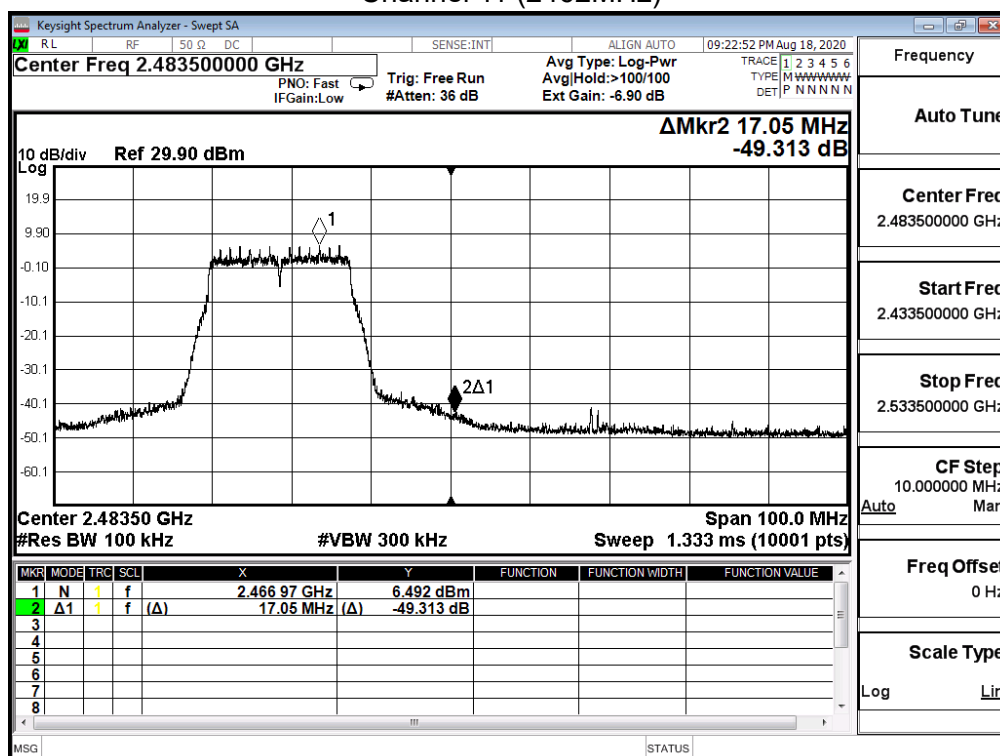


Channel 6 (2437MHz)



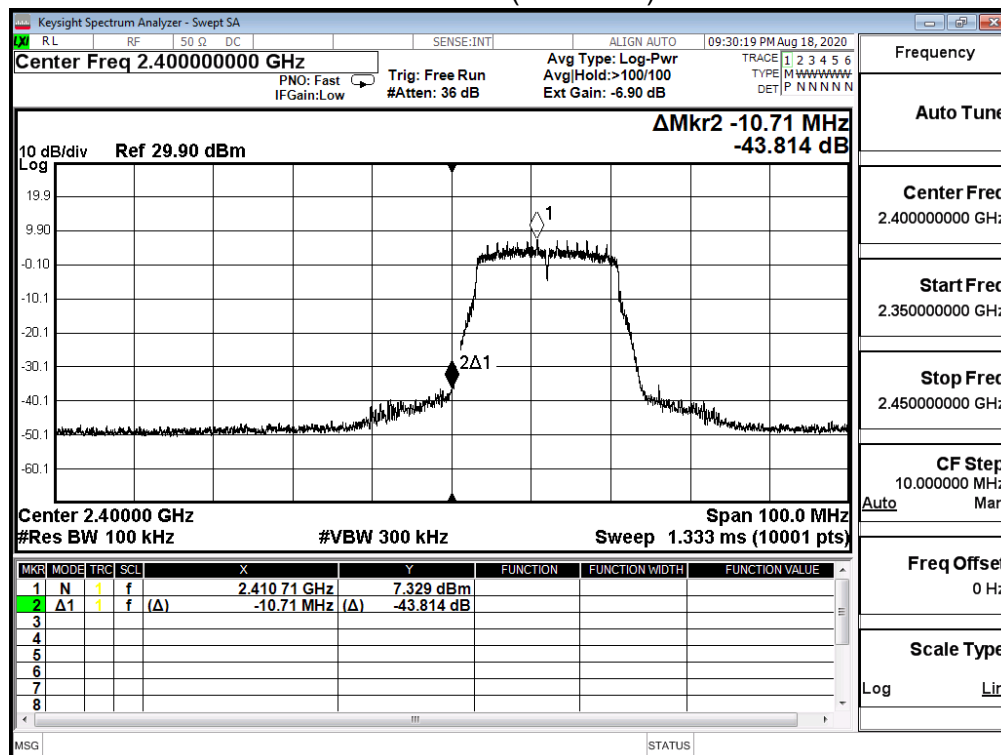
Channel 11 (2462MHz)



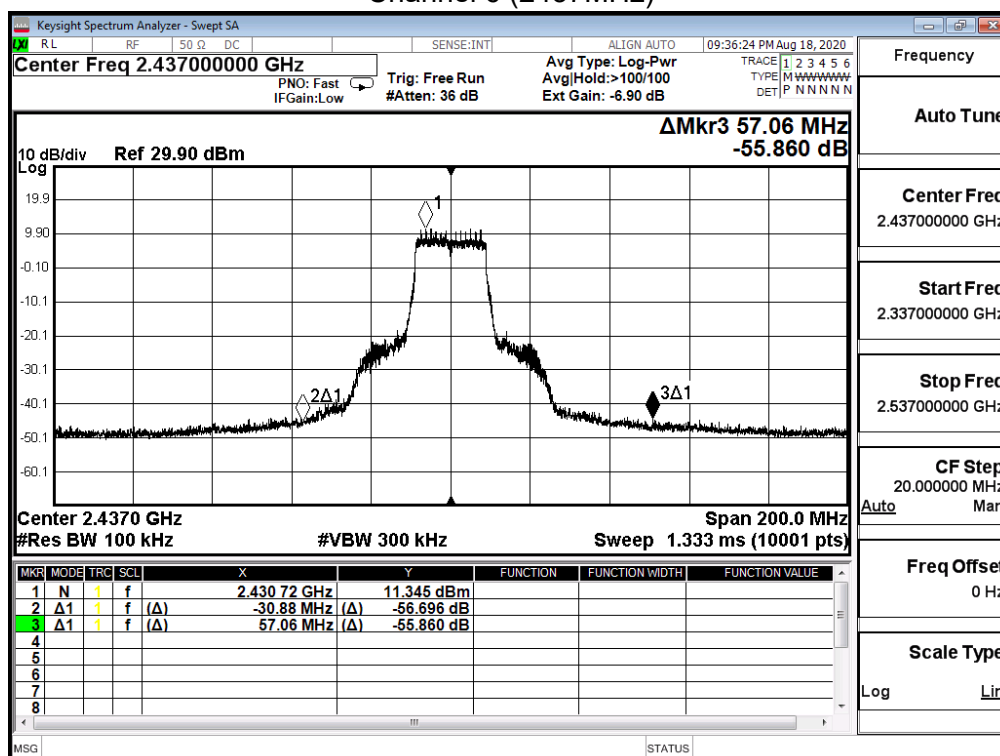
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

IEEE 802.11n(20M)(ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.814	≥ 30	Pass
6	2437	50.749	≥ 30	Pass
11	2462	45.306	≥ 30	Pass

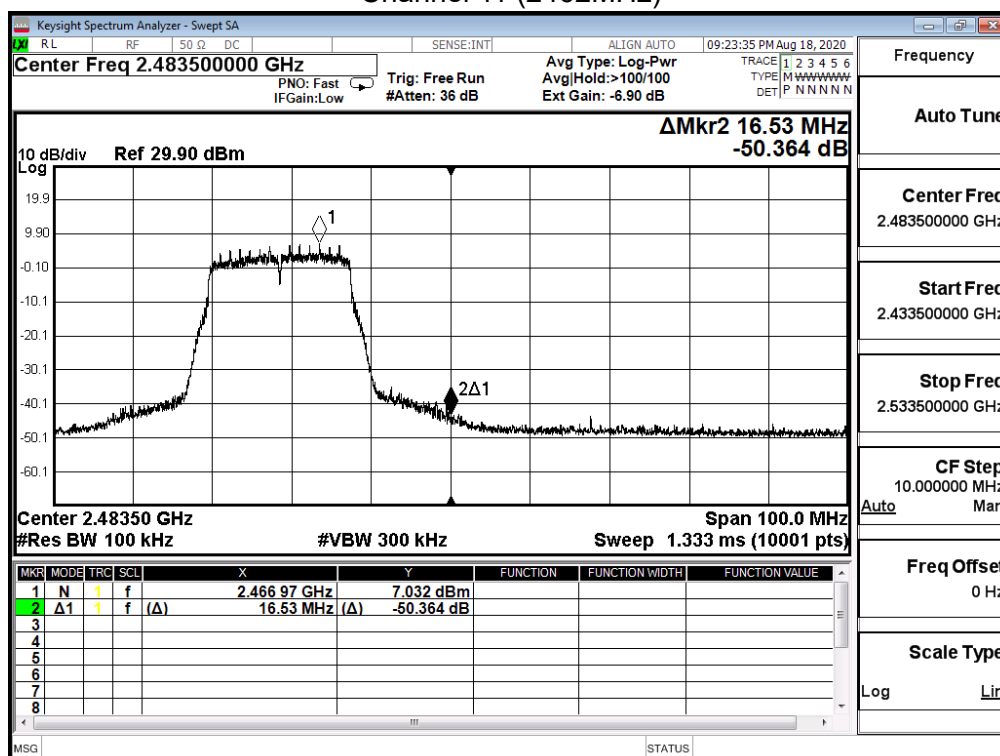
Channel 1 (2412MHz)



Channel 6 (2437MHz)



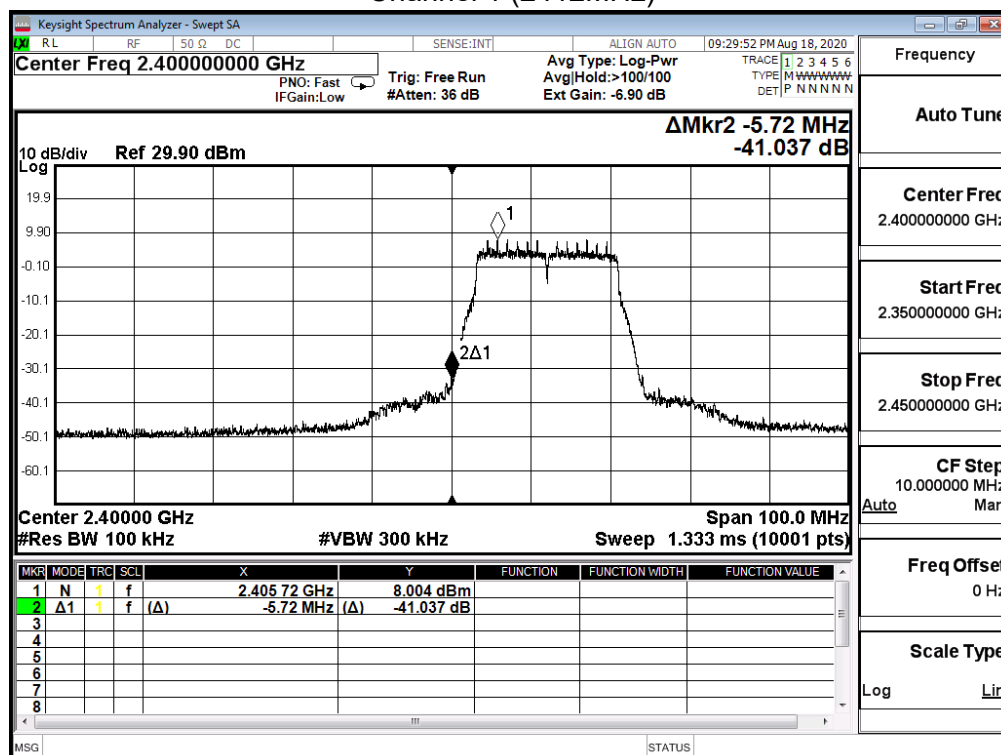
Channel 11 (2462MHz)



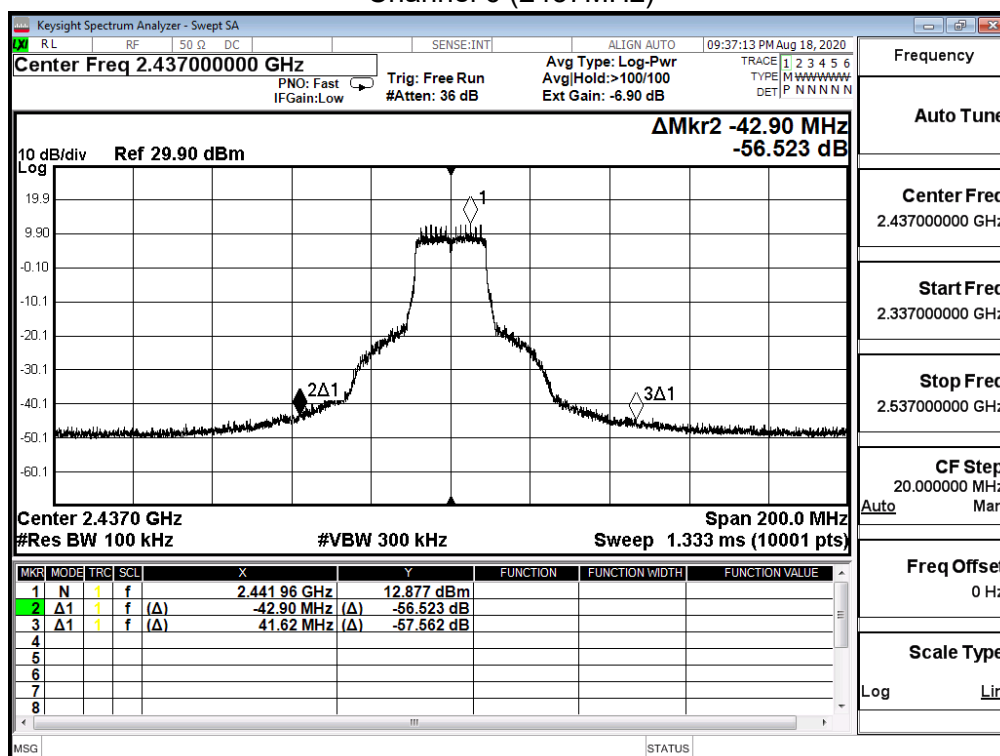
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0℃	Test Humidity	69.0%

IEEE 802.11n(20M)(ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.037	≥30	Pass
6	2437	50.749	≥30	Pass
11	2462	44.283	≥30	Pass

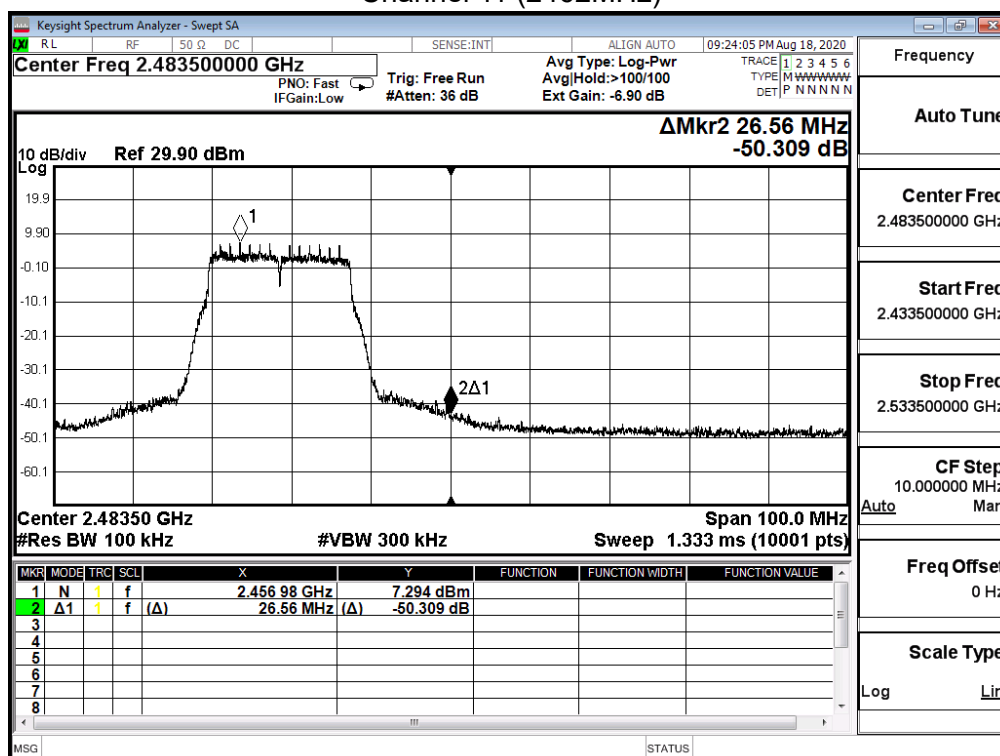
Channel 1 (2412MHz)



Channel 6 (2437MHz)



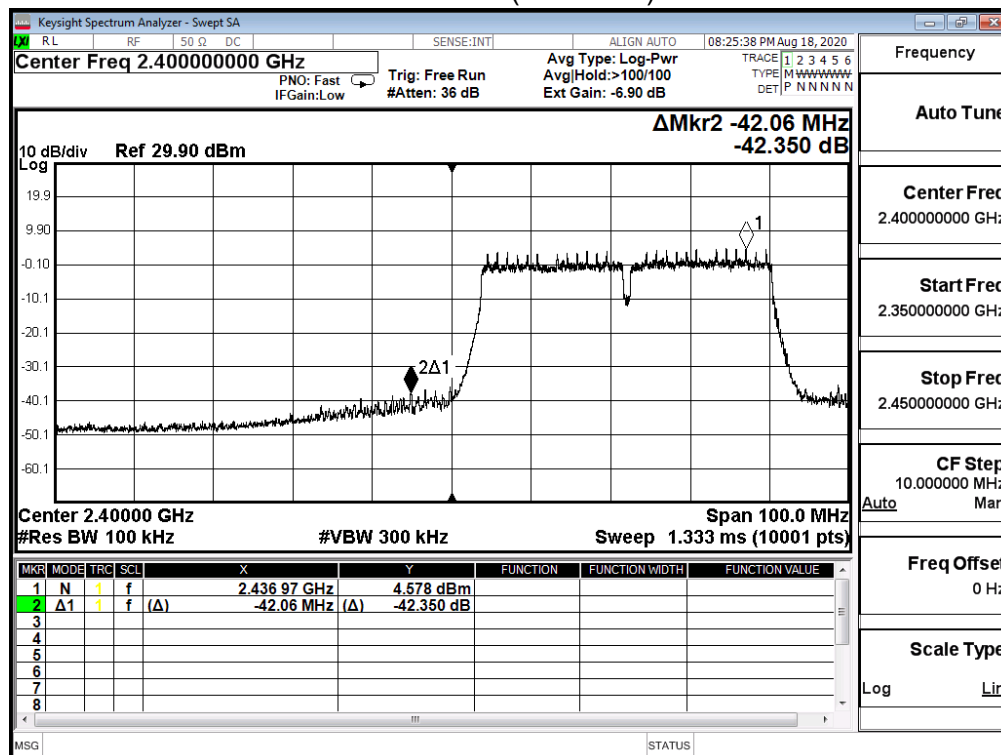
Channel 11 (2462MHz)



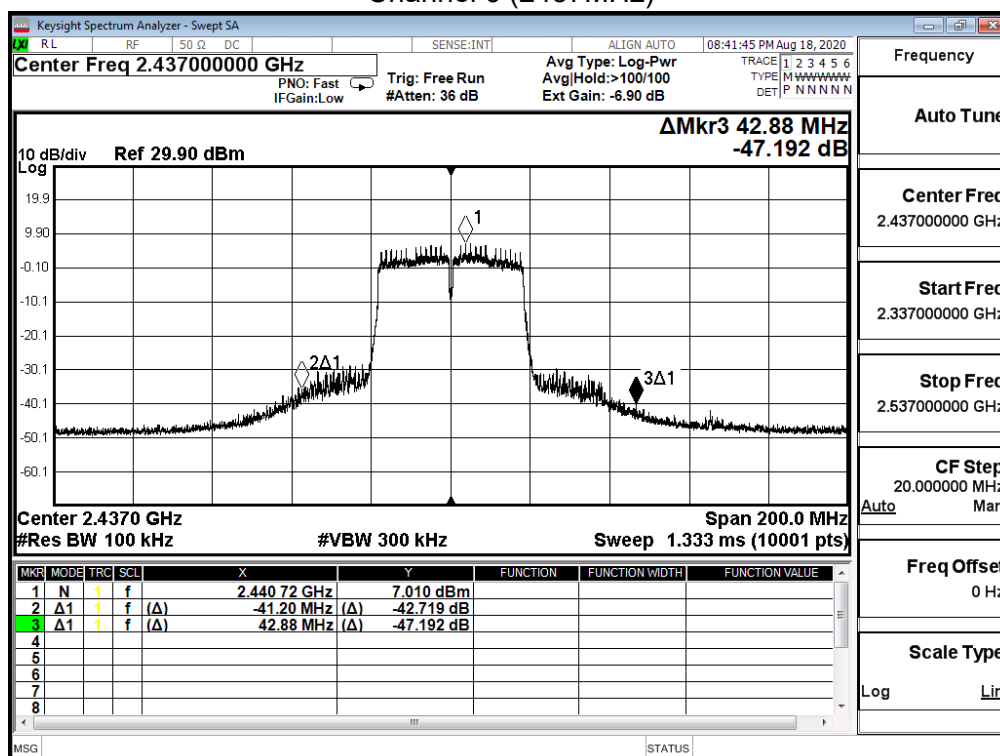
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

IEEE 802.11n(40M)(ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	42.350	≥ 30	Pass
6	2437	42.719	≥ 30	Pass
9	2452	41.393	≥ 30	Pass

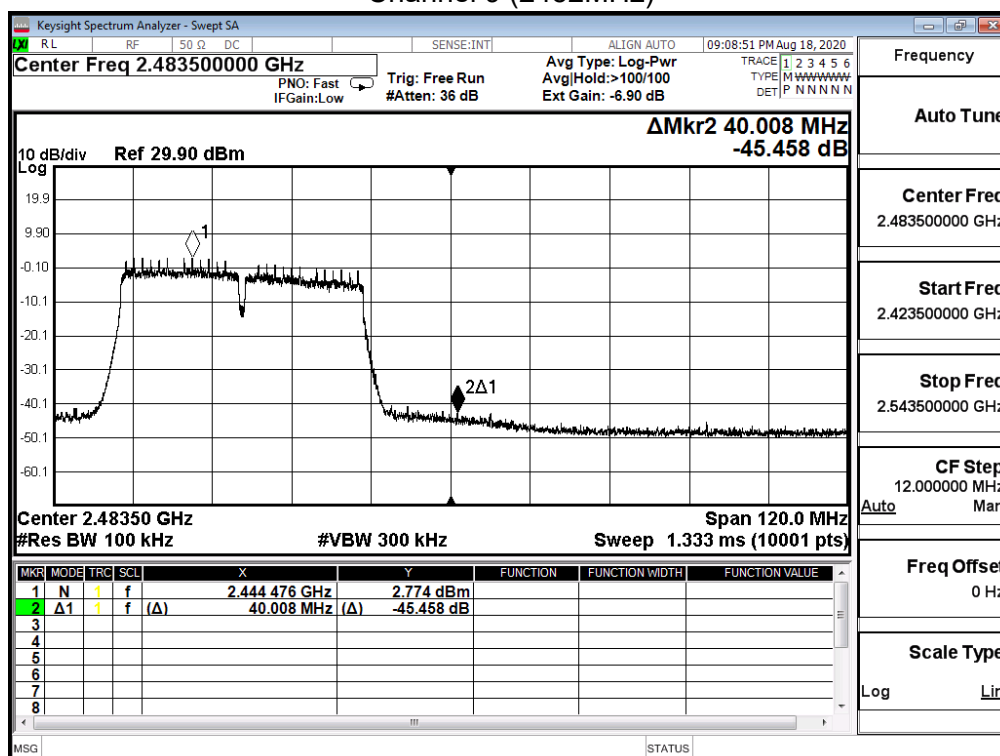
Channel 3 (2422MHz)



Channel 6 (2437MHz)



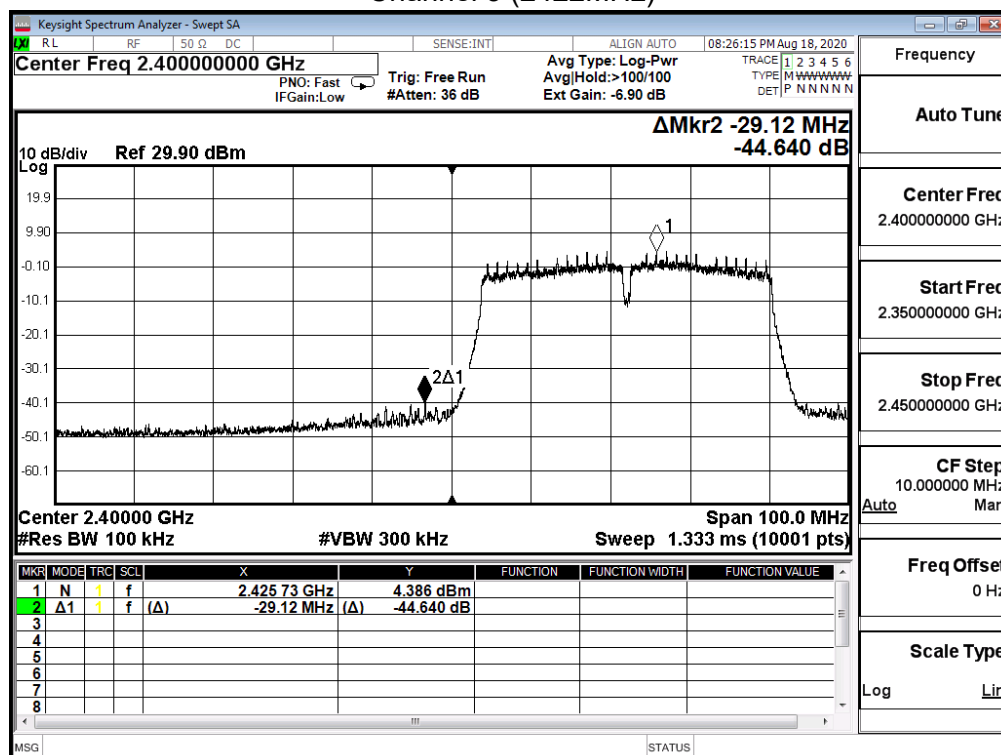
Channel 9 (2452MHz)



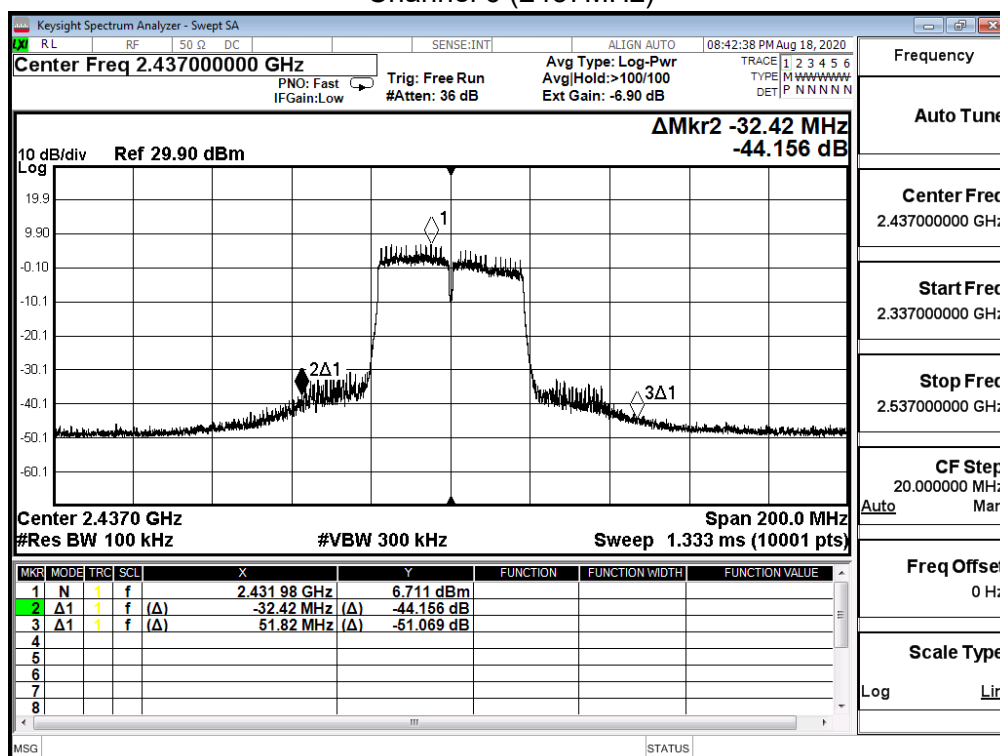
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

IEEE 802.11n(40M)(ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	42.848	≥ 30	Pass
6	2437	42.719	≥ 30	Pass
9	2452	42.712	≥ 30	Pass

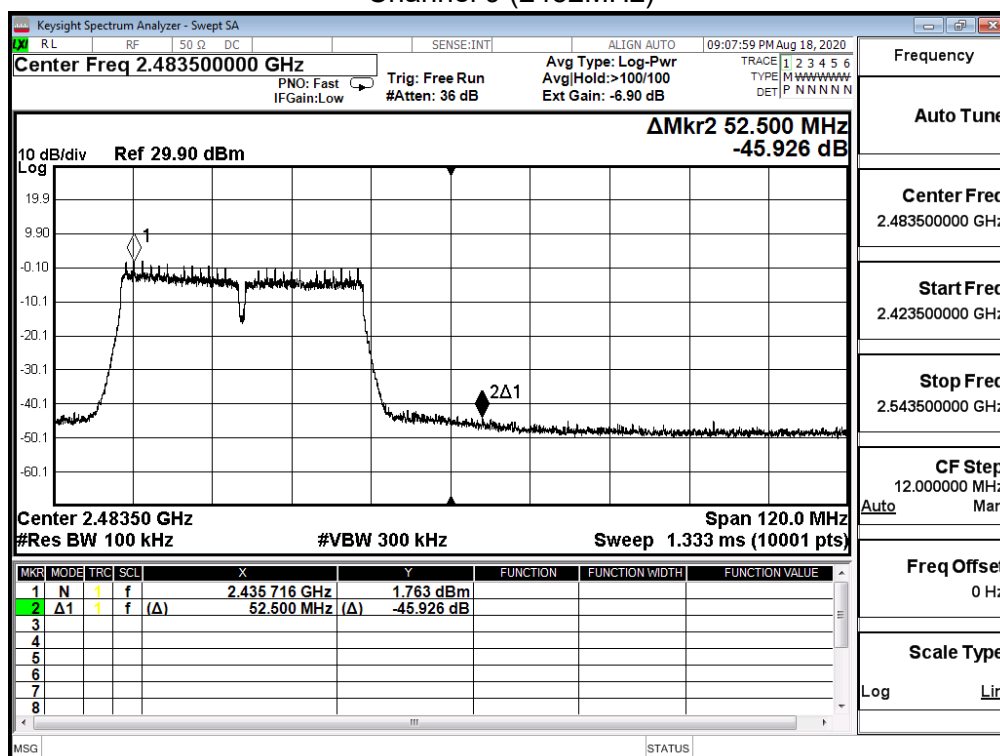
Channel 3 (2422MHz)



Channel 6 (2437MHz)



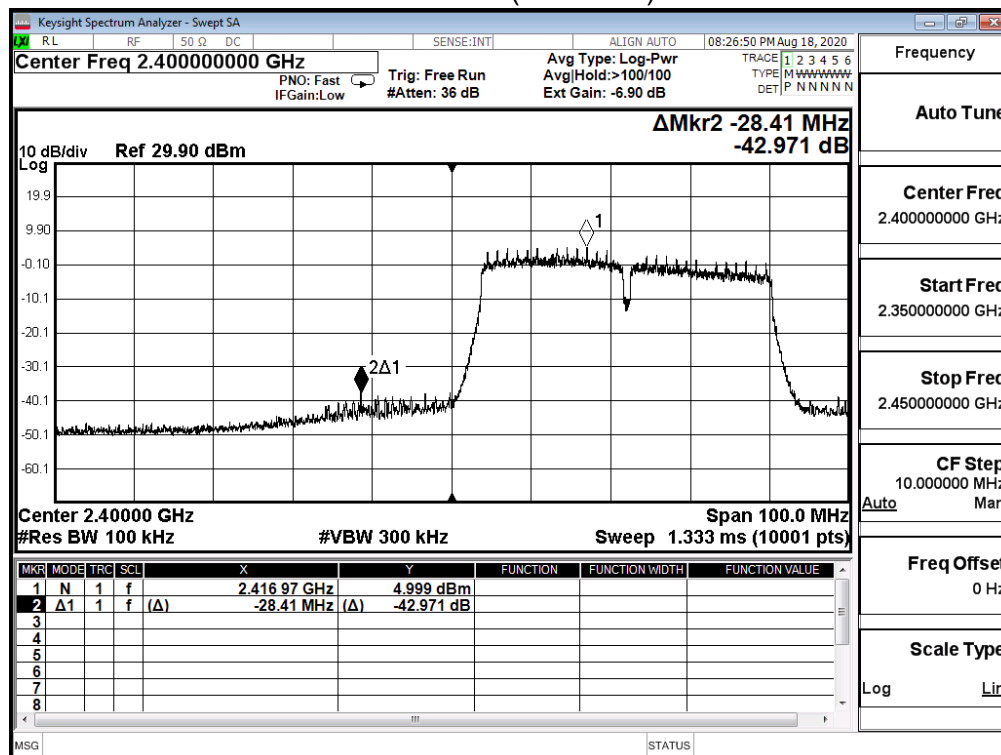
Channel 9 (2452MHz)



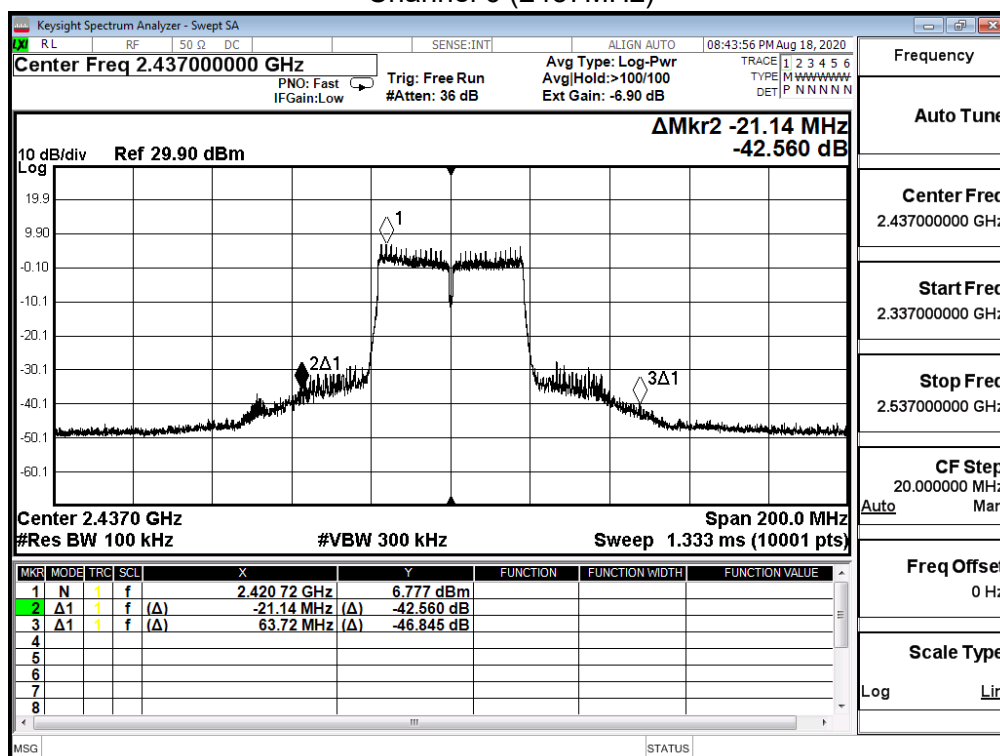
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

IEEE 802.11n(40M)(ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	42.971	≥ 30	Pass
6	2437	42.560	≥ 30	Pass
9	2452	42.679	≥ 30	Pass

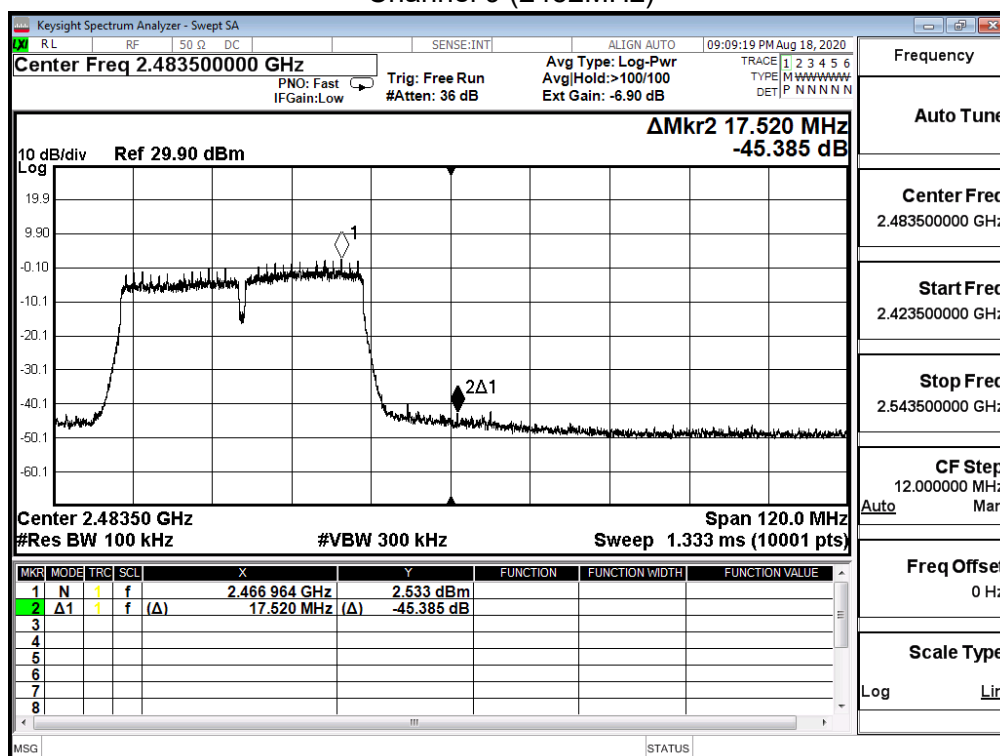
Channel 3 (2422MHz)



Channel 6 (2437MHz)



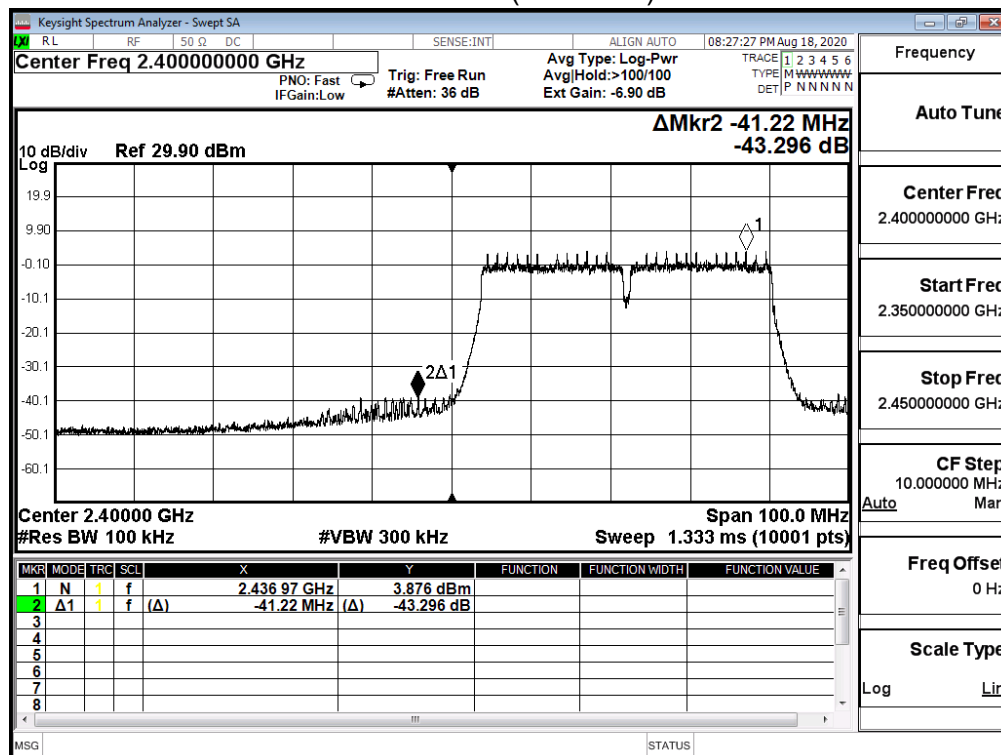
Channel 9 (2452MHz)



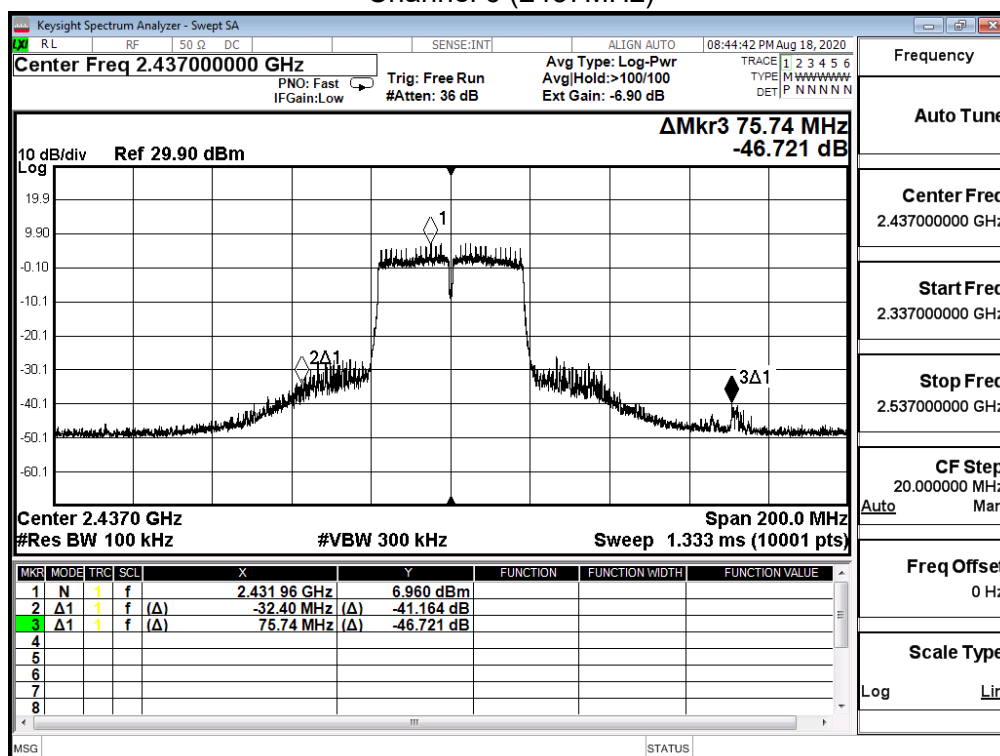
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

IEEE 802.11n(40M)(ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	43.296	≥ 30	Pass
6	2437	41.164	≥ 30	Pass
9	2452	40.699	≥ 30	Pass

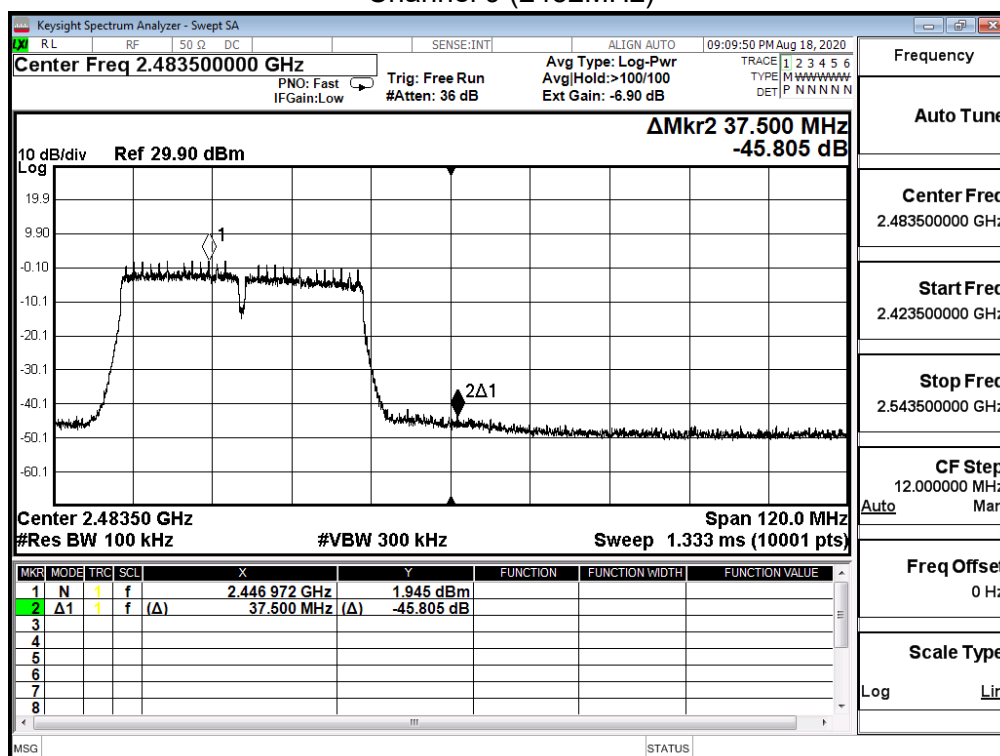
Channel 3 (2422MHz)



Channel 6 (2437MHz)



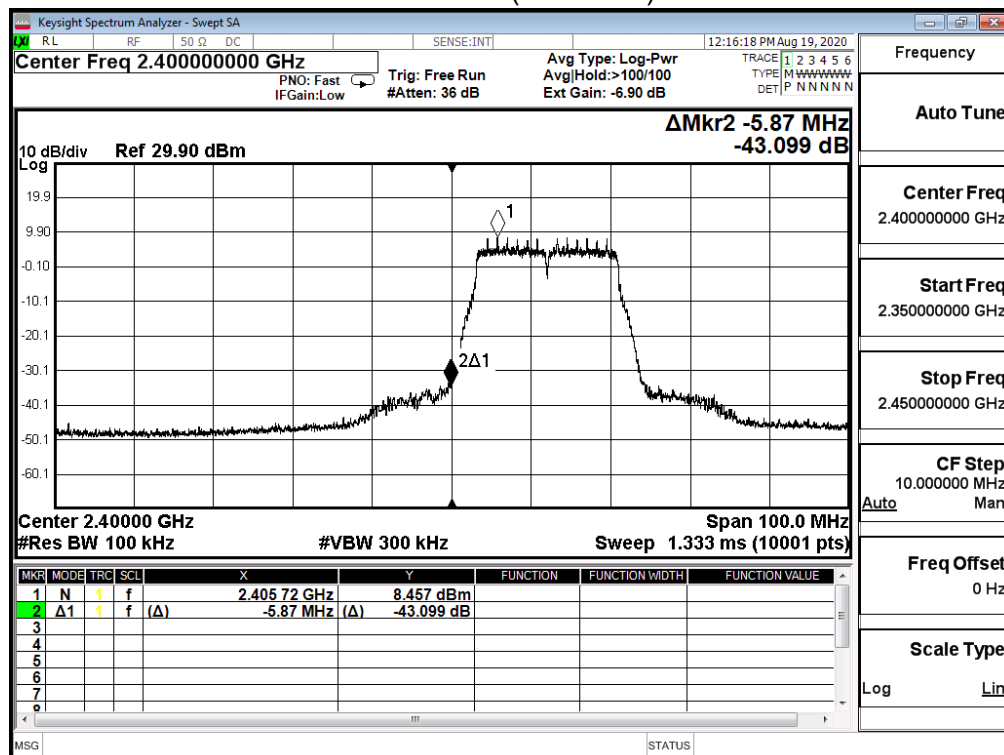
Channel 9 (2452MHz)



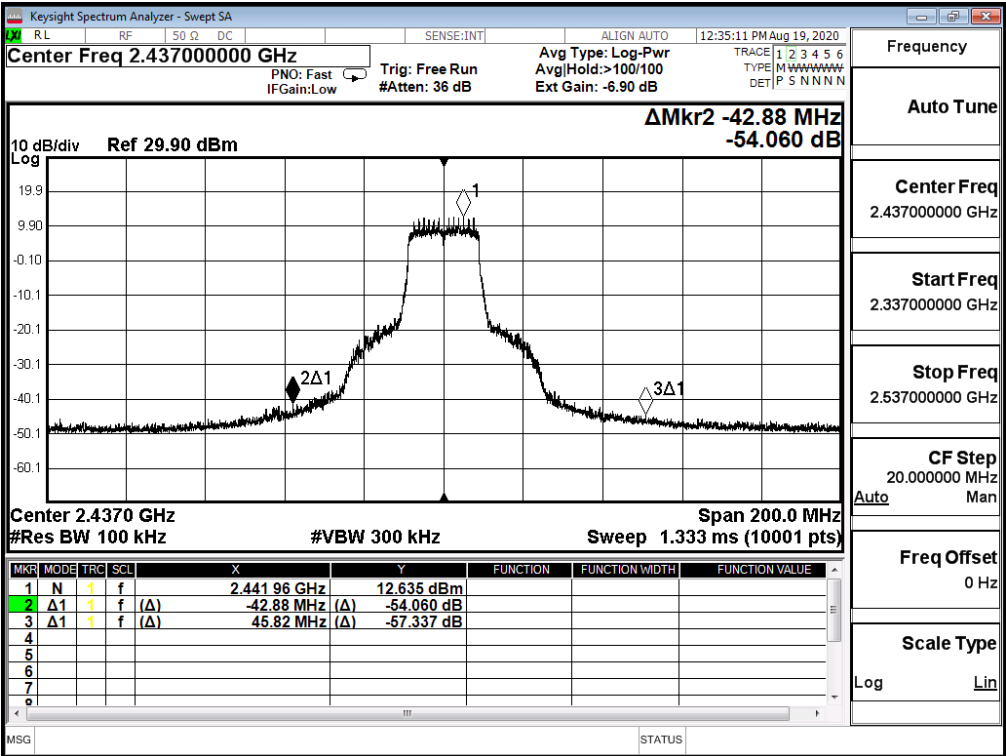
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(20M)(ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.099	≥ 30	Pass
6	2437	51.137	≥ 30	Pass
11	2462	46.747	≥ 30	Pass

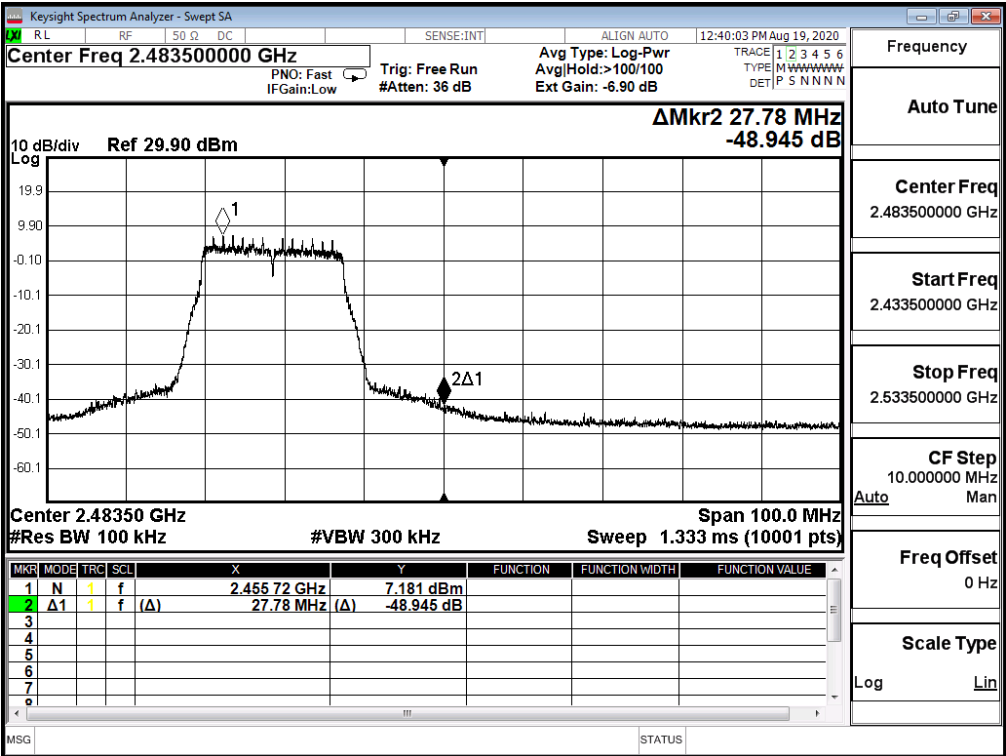
Channel 1 (2412MHz)



Channel 6 (2437MHz)



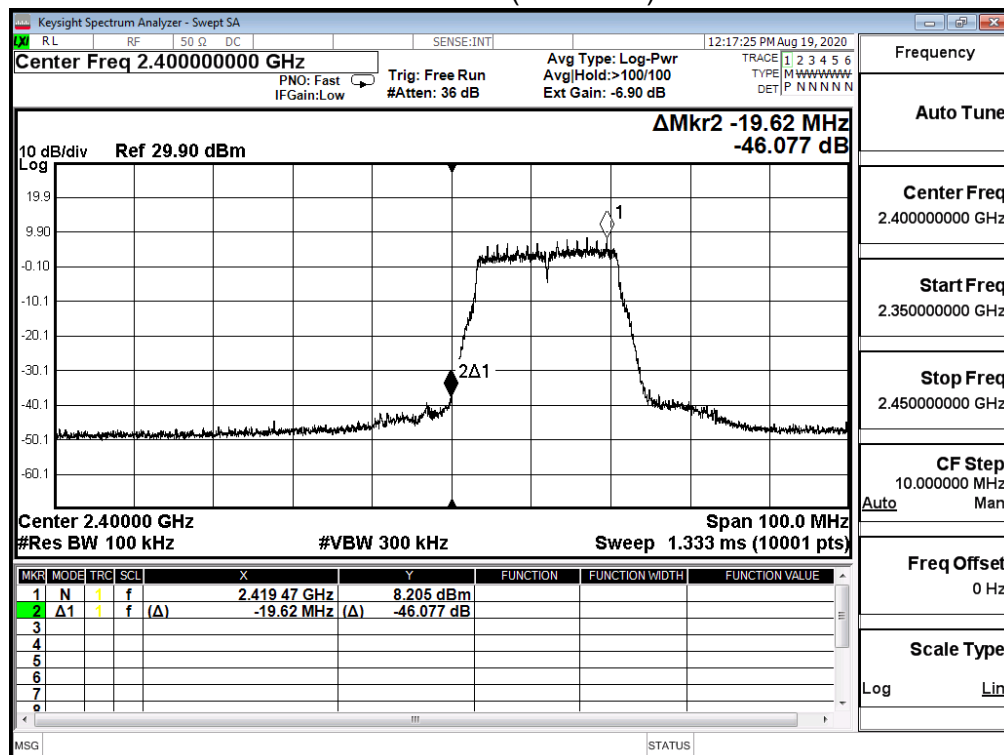
Channel 11 (2462MHz)



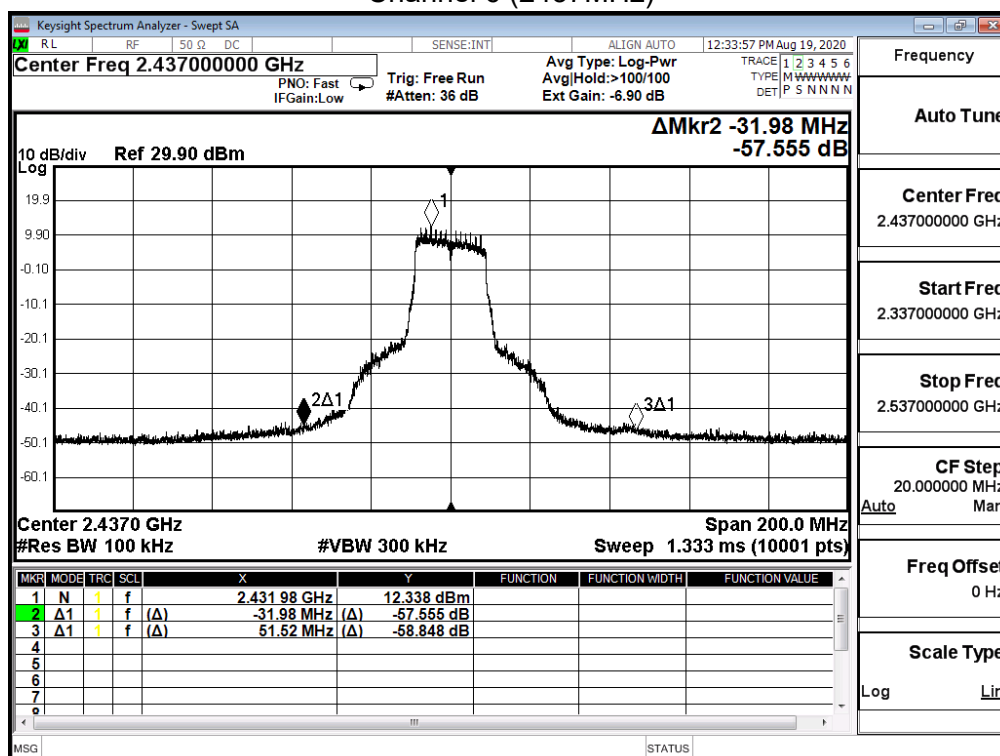
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(20M)(ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.653	≥ 30	Pass
6	2437	50.983	≥ 30	Pass
11	2462	47.409	≥ 30	Pass

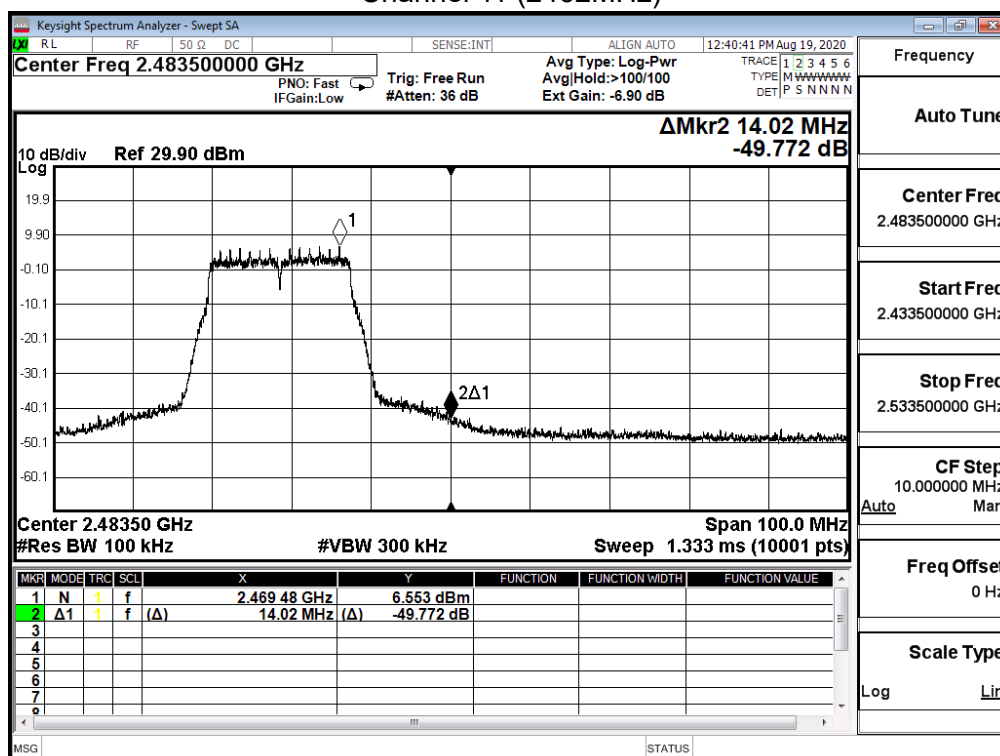
Channel 1 (2412MHz)



Channel 6 (2437MHz)



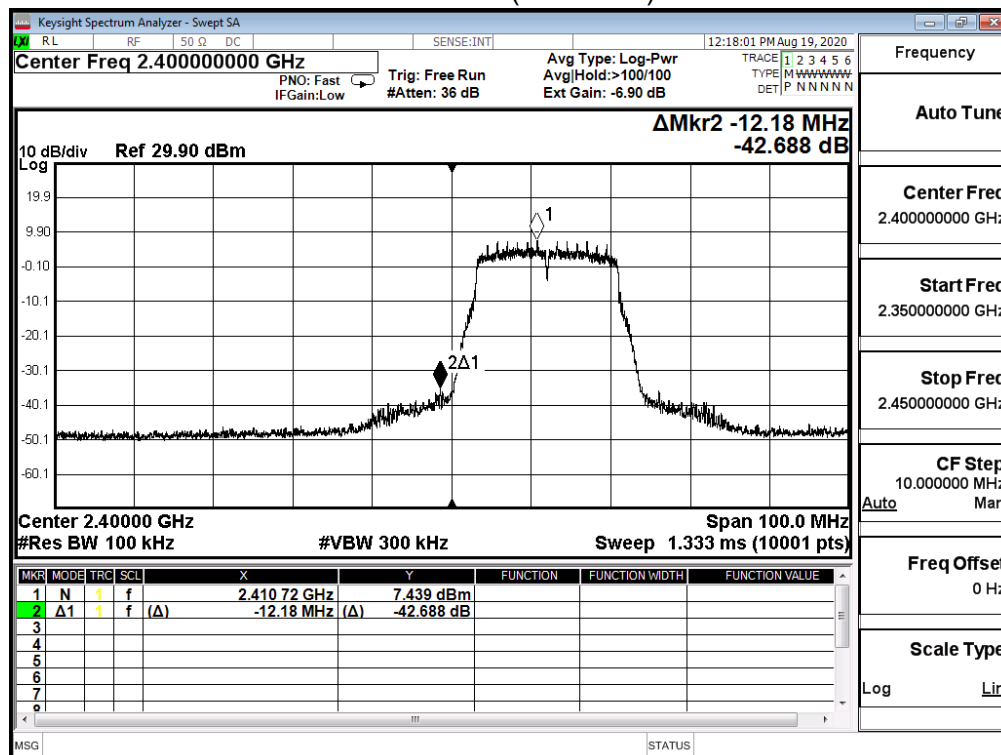
Channel 11 (2462MHz)



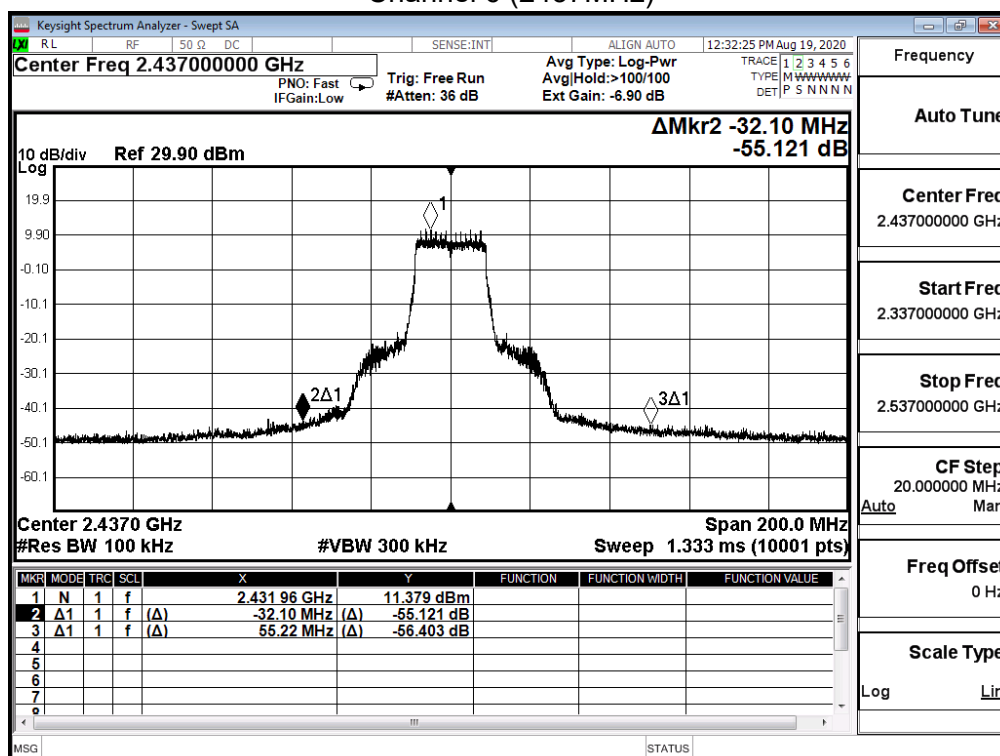
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(20M)(ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.688	≥ 30	Pass
6	2437	50.973	≥ 30	Pass
11	2462	47.830	≥ 30	Pass

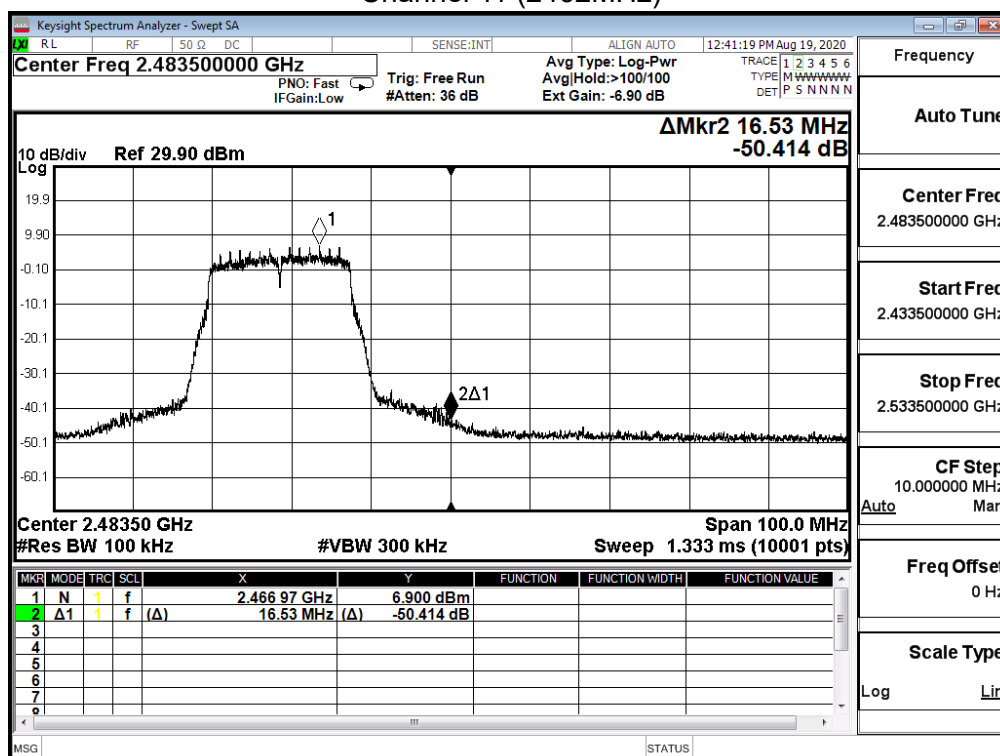
Channel 1 (2412MHz)



Channel 6 (2437MHz)



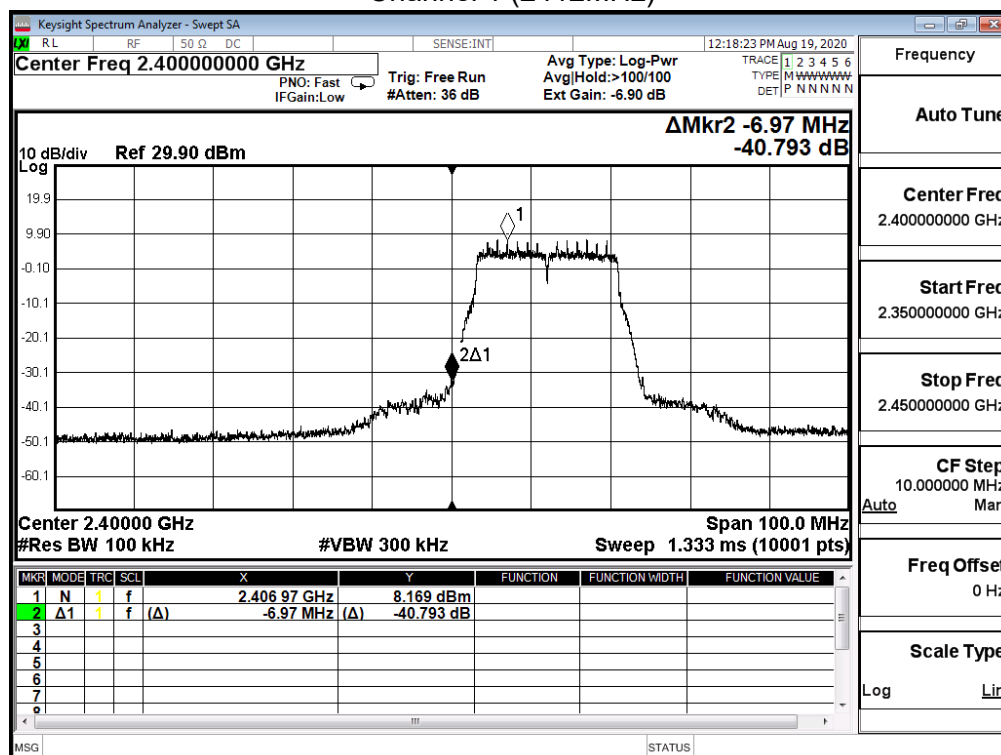
Channel 11 (2462MHz)



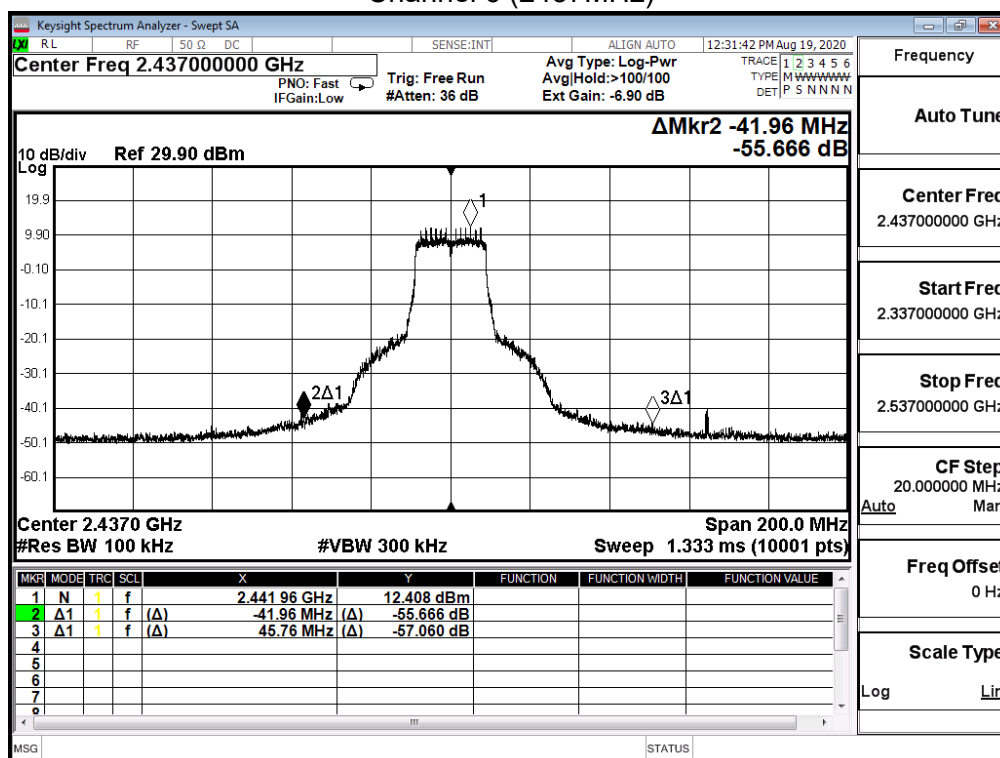
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(20M)(ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	40.793	≥ 30	Pass
6	2437	52.762	≥ 30	Pass
11	2462	47.830	≥ 30	Pass

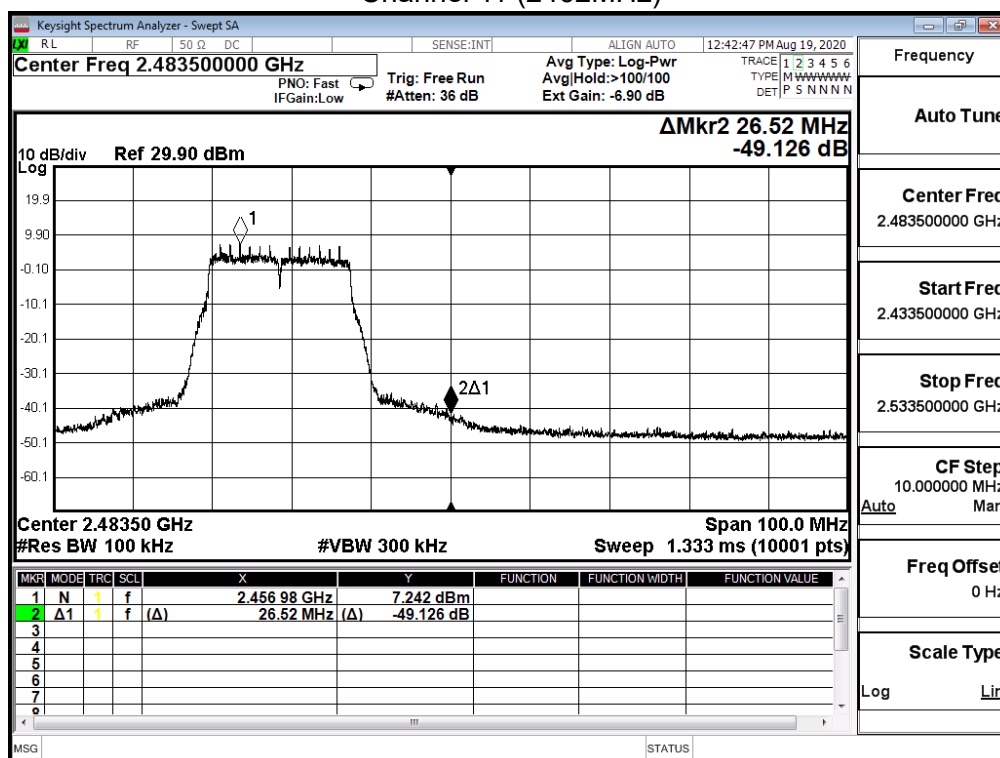
Channel 1 (2412MHz)



Channel 6 (2437MHz)



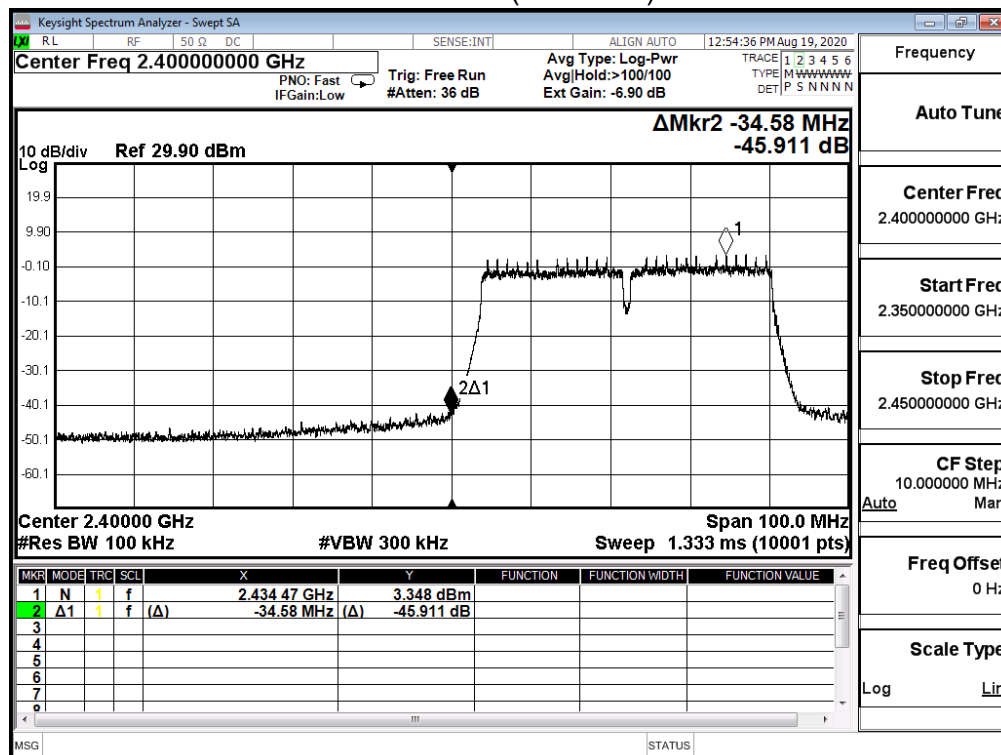
Channel 11 (2462MHz)



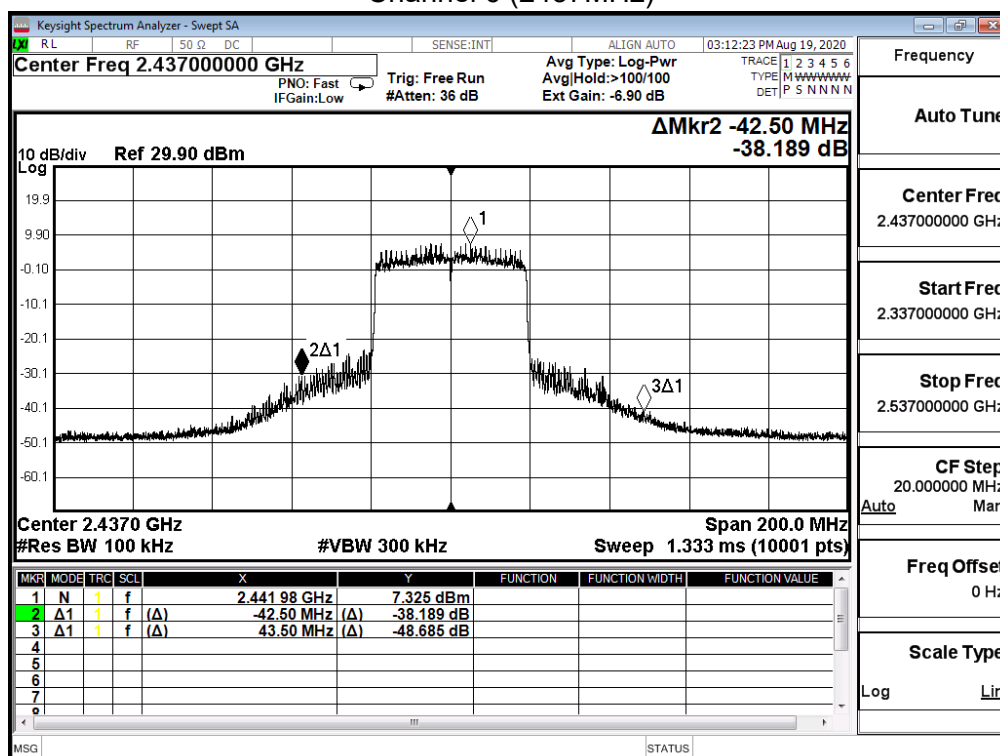
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(40M)(ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	43.493	≥ 30	Pass
6	2437	38.189	≥ 30	Pass
9	2452	42.892	≥ 30	Pass

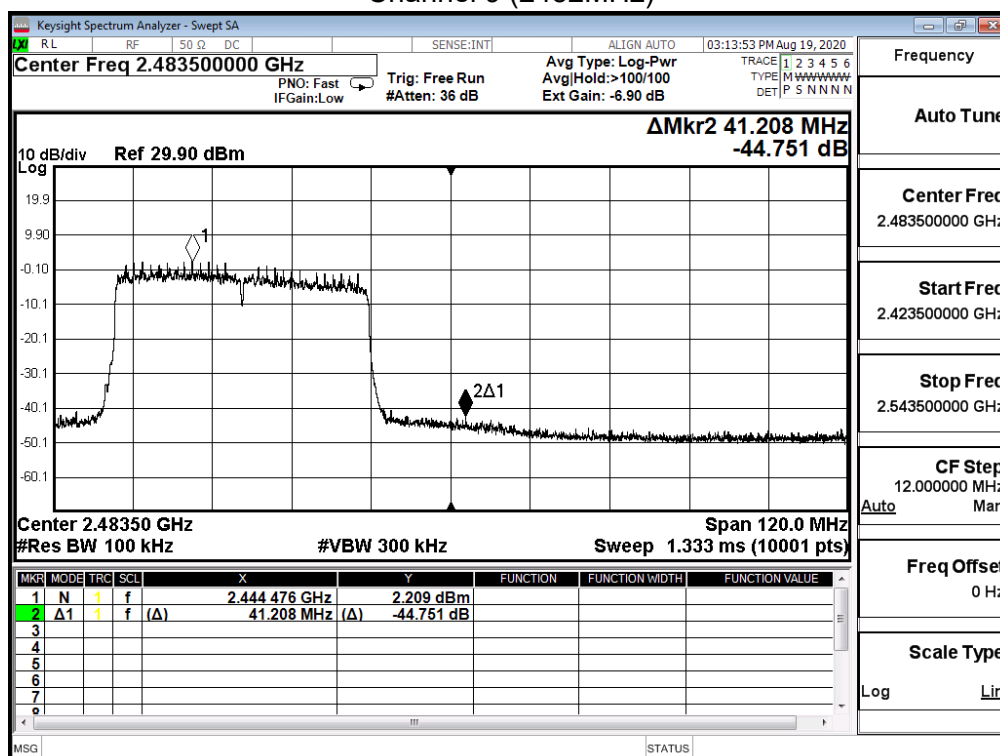
Channel 3 (2422MHz)



Channel 6 (2437MHz)



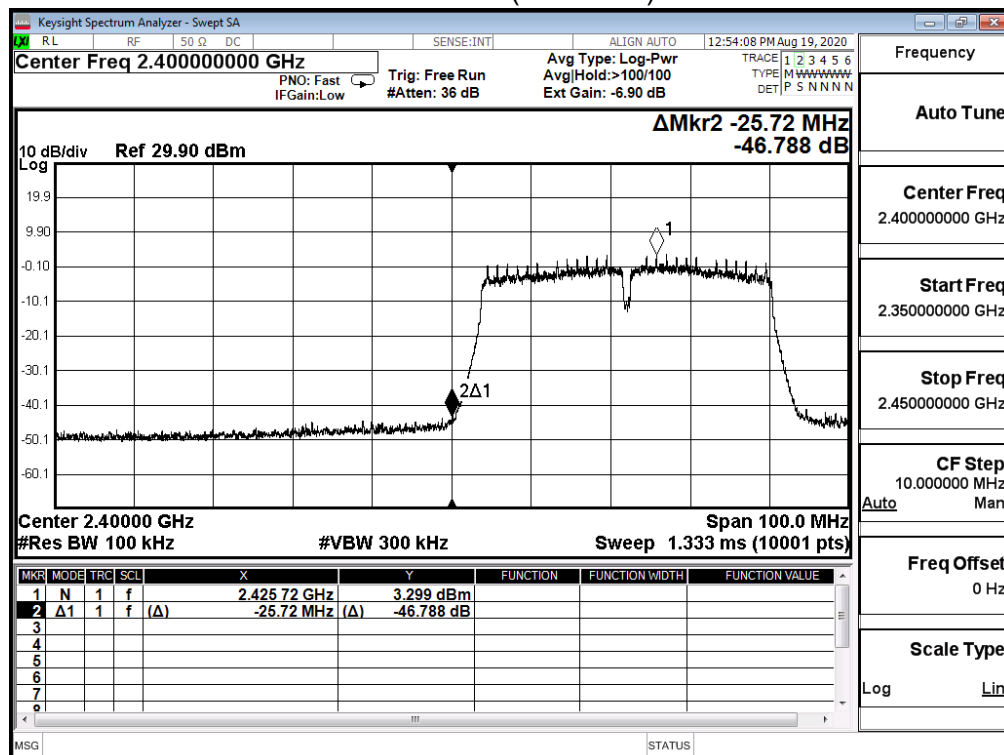
Channel 9 (2452MHz)



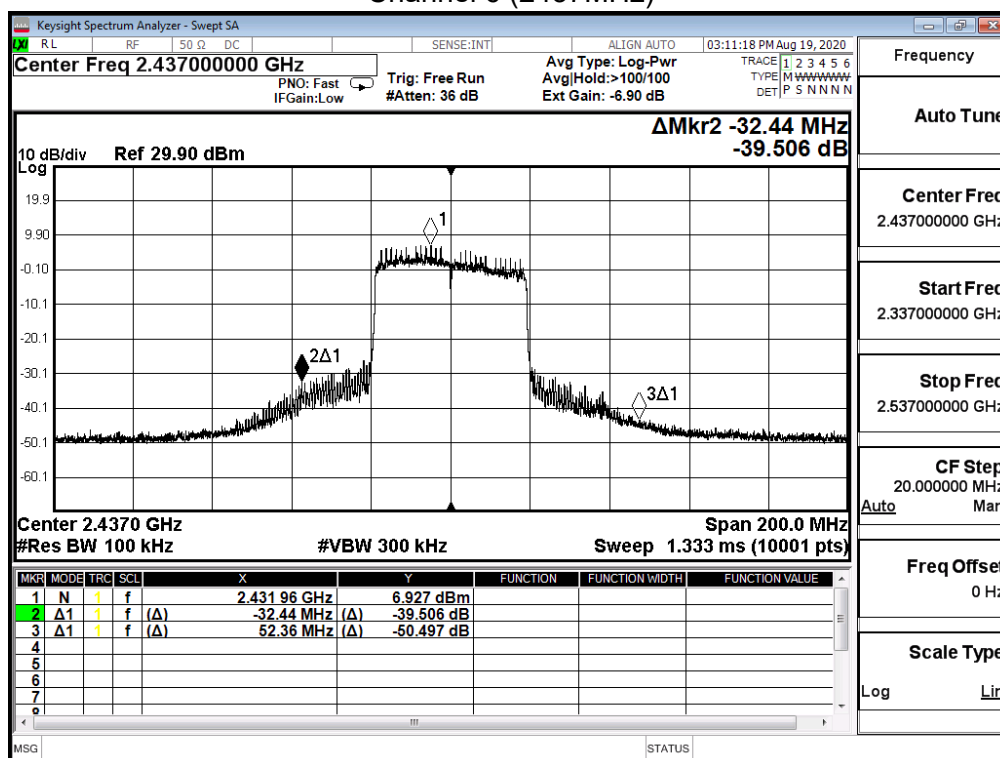
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(40M)(ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.557	≥ 30	Pass
6	2437	39.506	≥ 30	Pass
9	2452	41.855	≥ 30	Pass

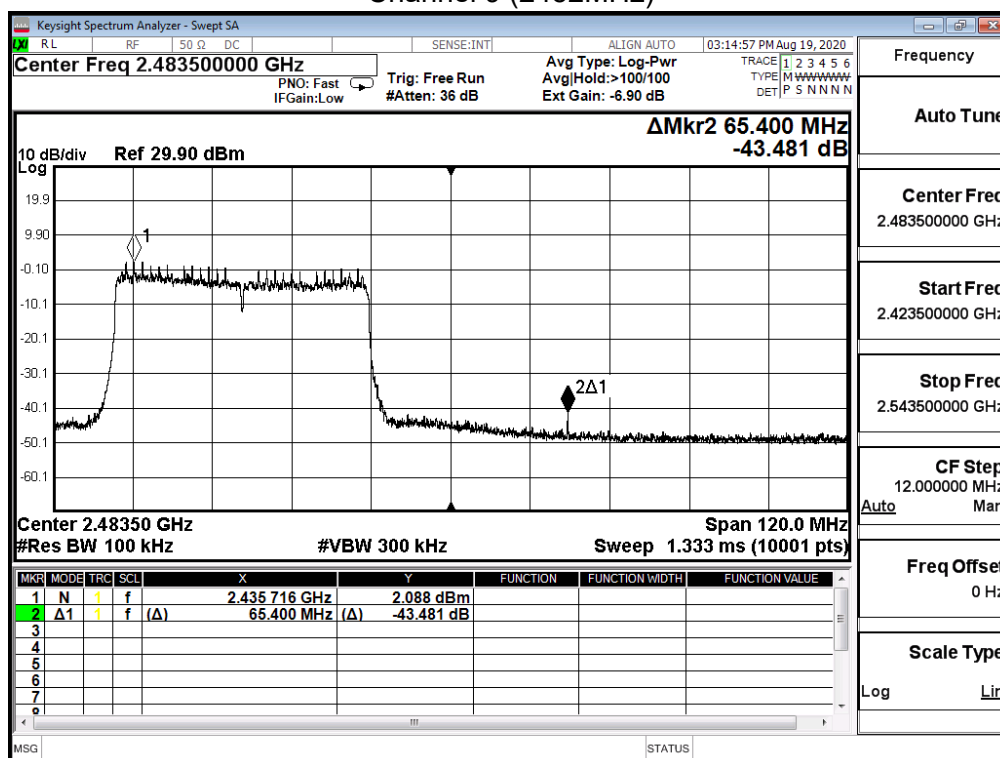
Channel 3 (2422MHz)



Channel 6 (2437MHz)



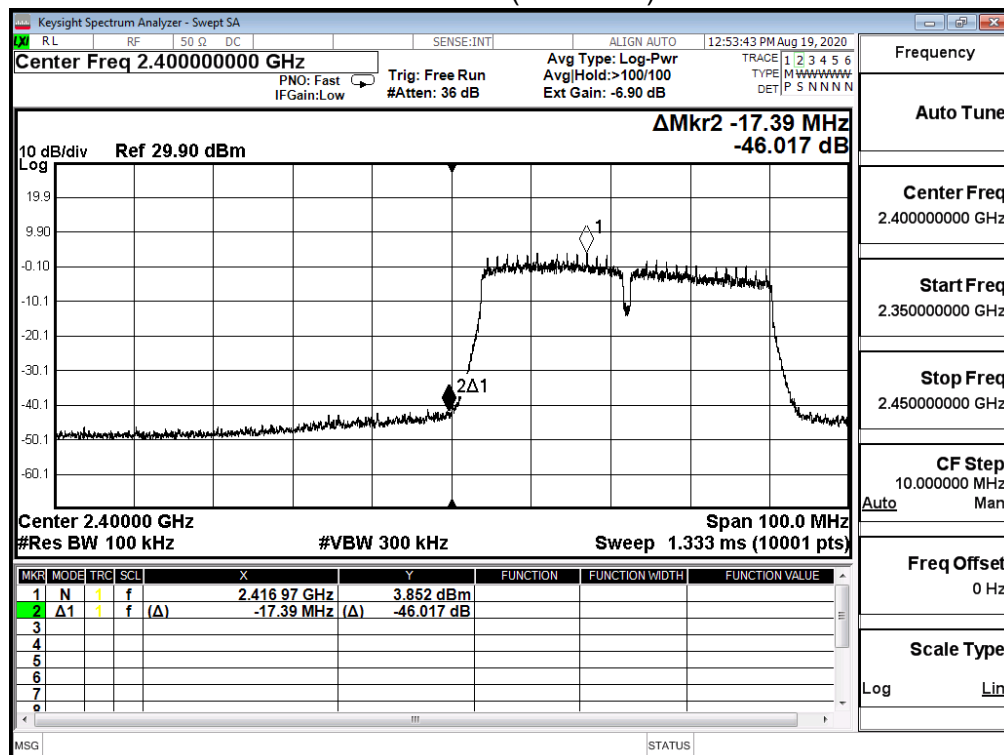
Channel 9 (2452MHz)



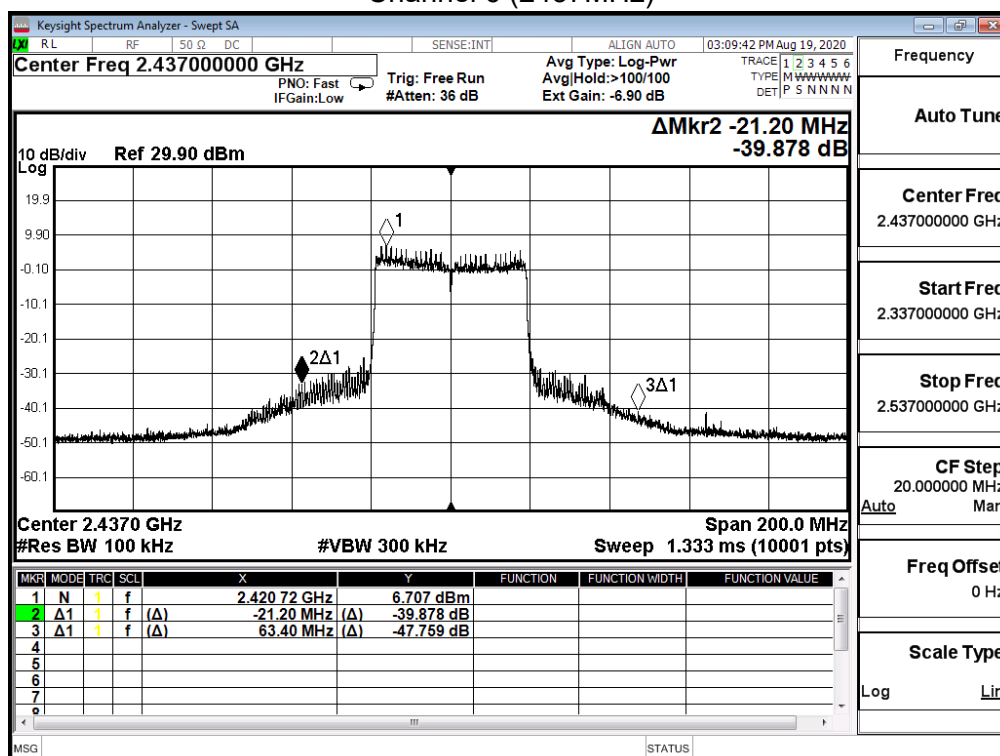
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(40M)(ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	43.075	≥ 30	Pass
6	2437	39.878	≥ 30	Pass
9	2452	42.087	≥ 30	Pass

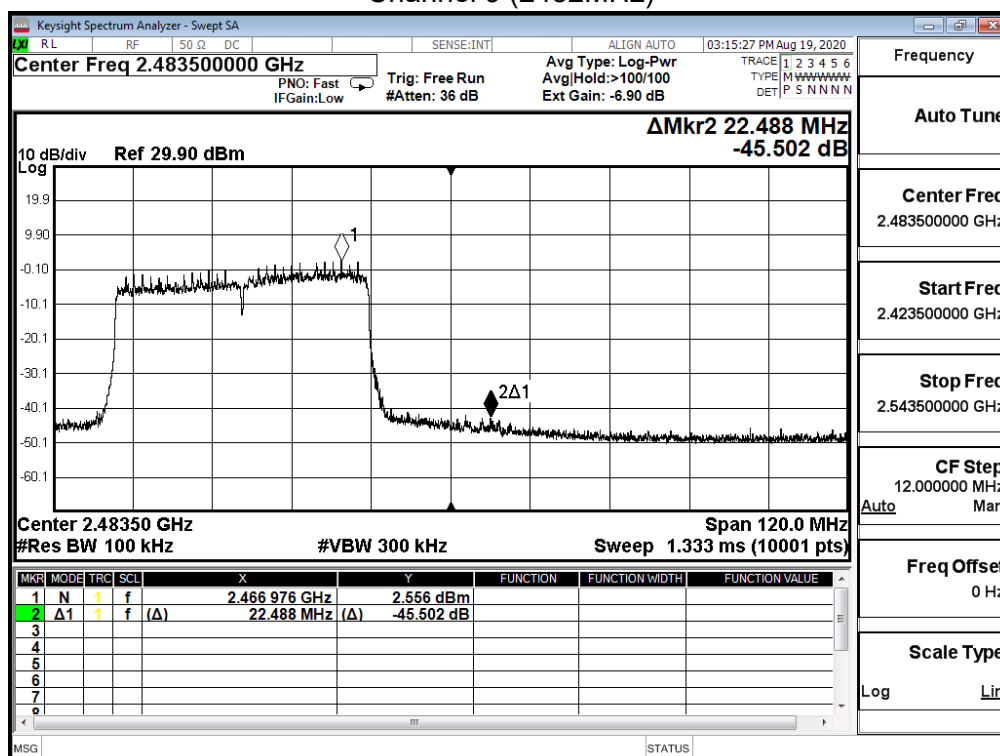
Channel 3 (2422MHz)



Channel 6 (2437MHz)



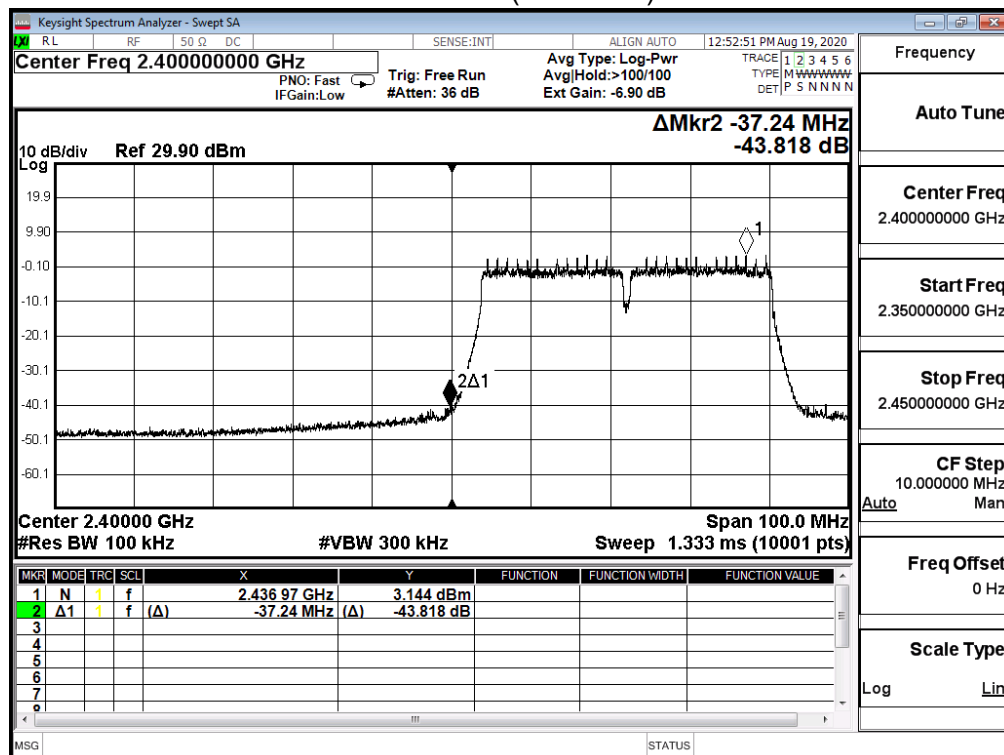
Channel 9 (2452MHz)



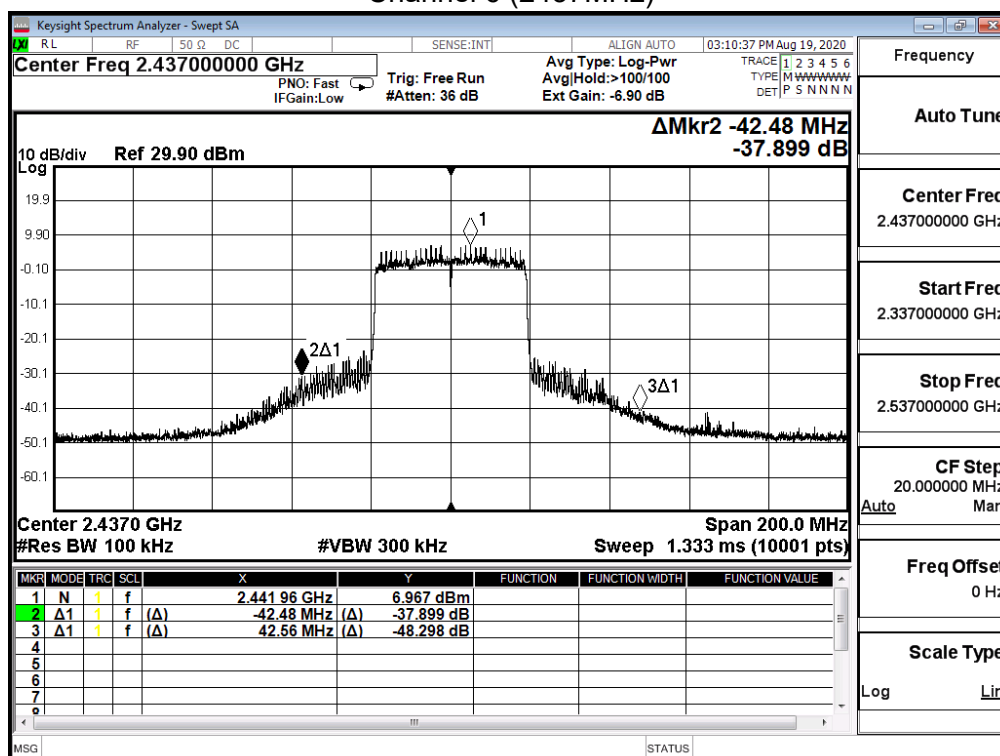
Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

IEEE 802.11ax(40M)(ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	43.818	≥ 30	Pass
6	2437	37.899	≥ 30	Pass
9	2452	40.278	≥ 30	Pass

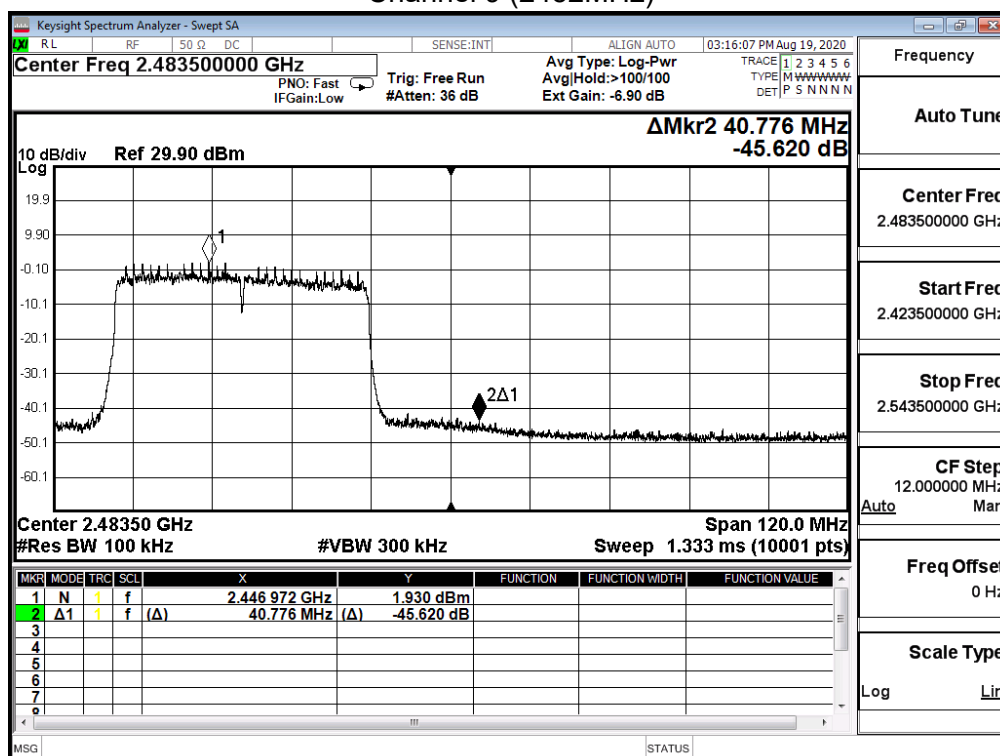
Channel 3 (2422MHz)



Channel 6 (2437MHz)

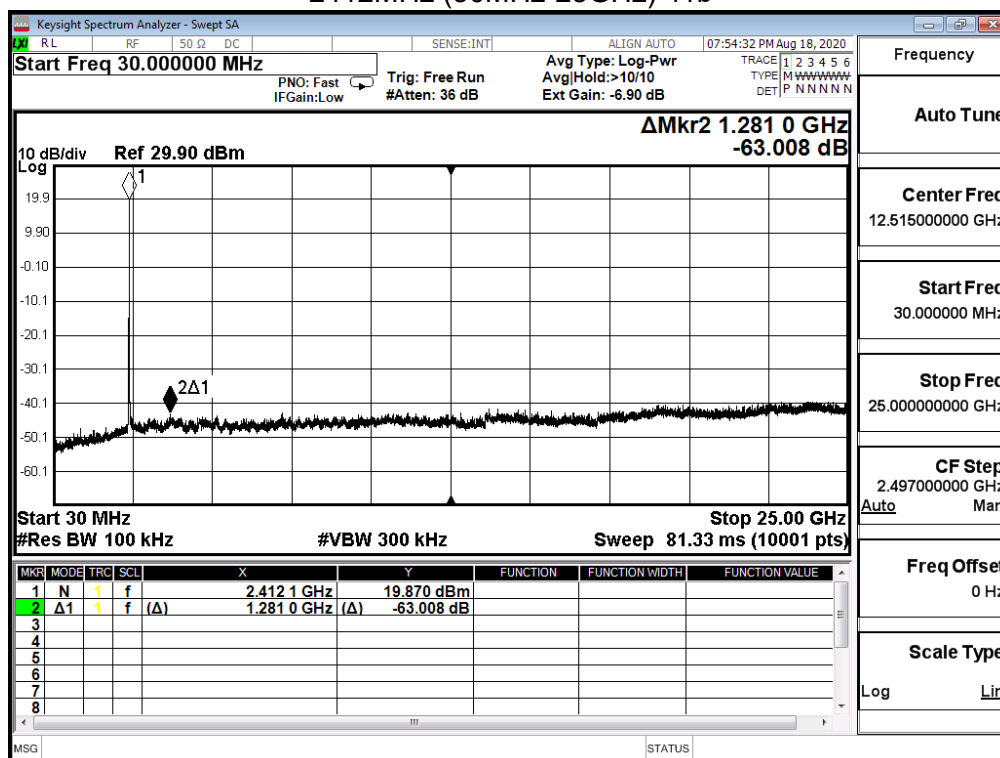


Channel 9 (2452MHz)

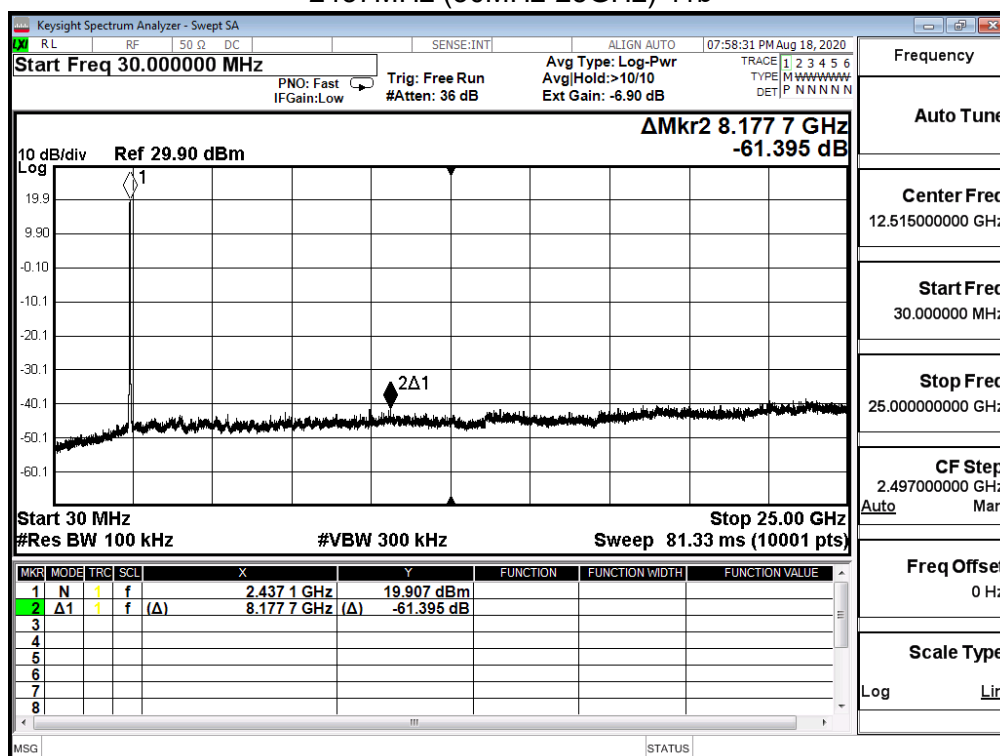


Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/18	Test Site	SR12-H
Test Temperature	25.0°C	Test Humidity	69.0%

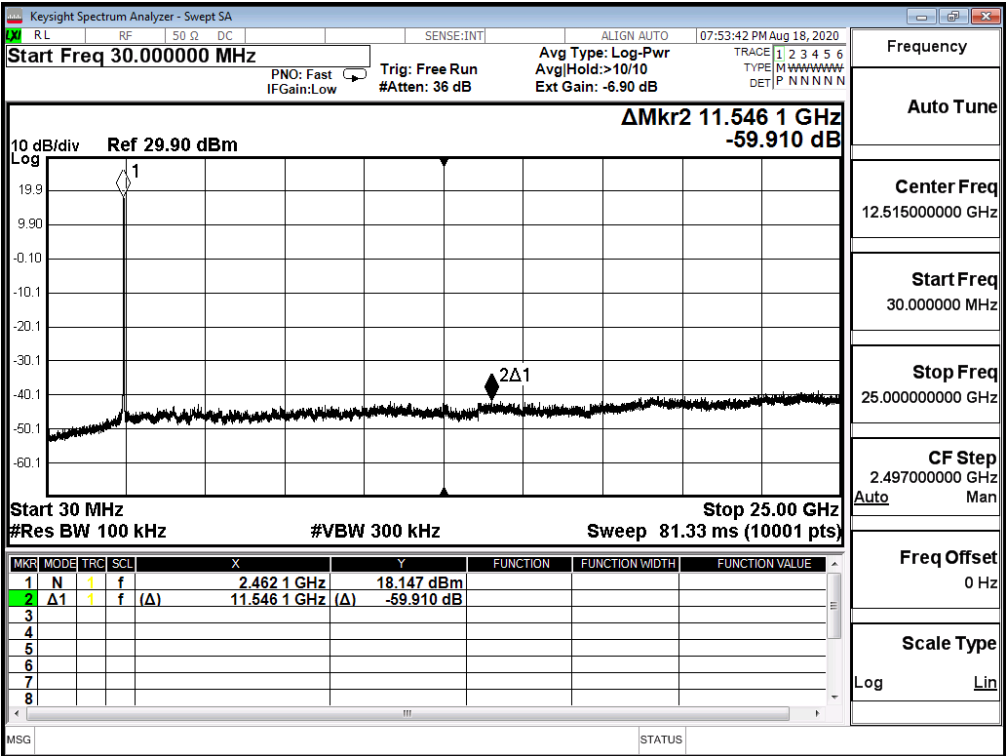
2412MHz (30MHz-25GHz)-11b



2437MHz (30MHz-25GHz)-11b

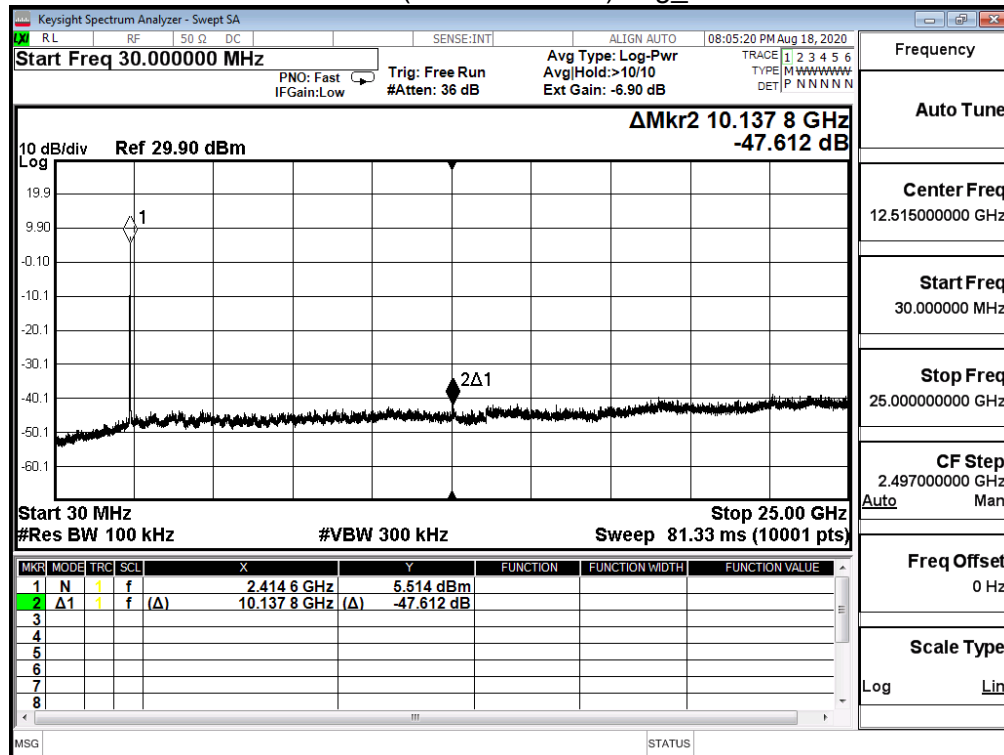


2462MHz (30MHz-25GHz)- 11b

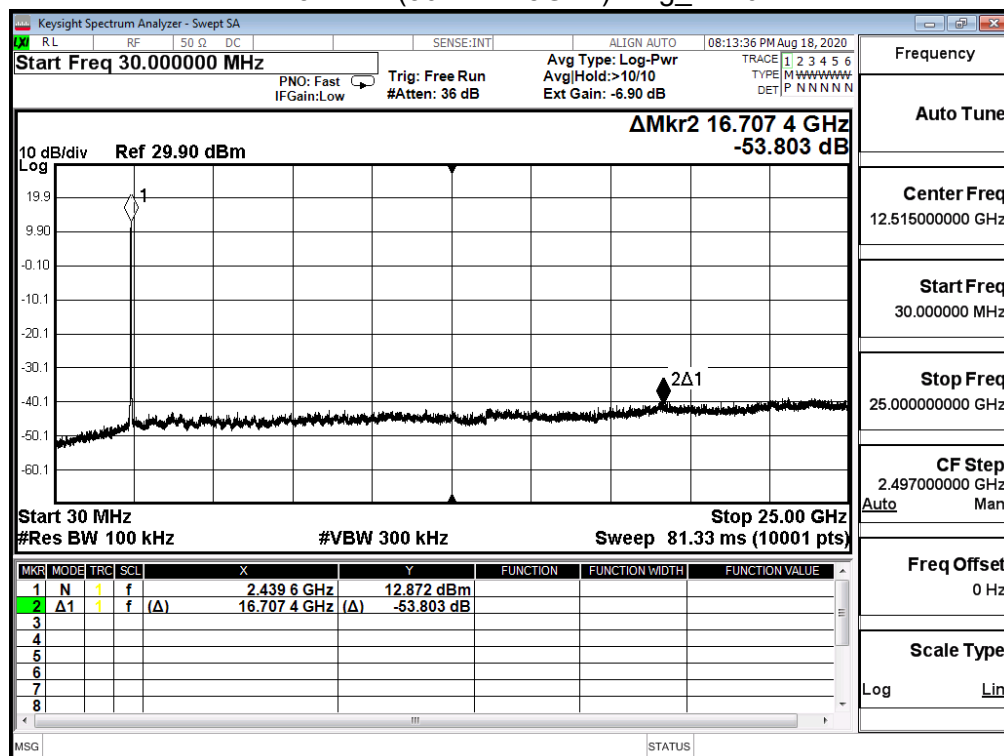


Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: SISO Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

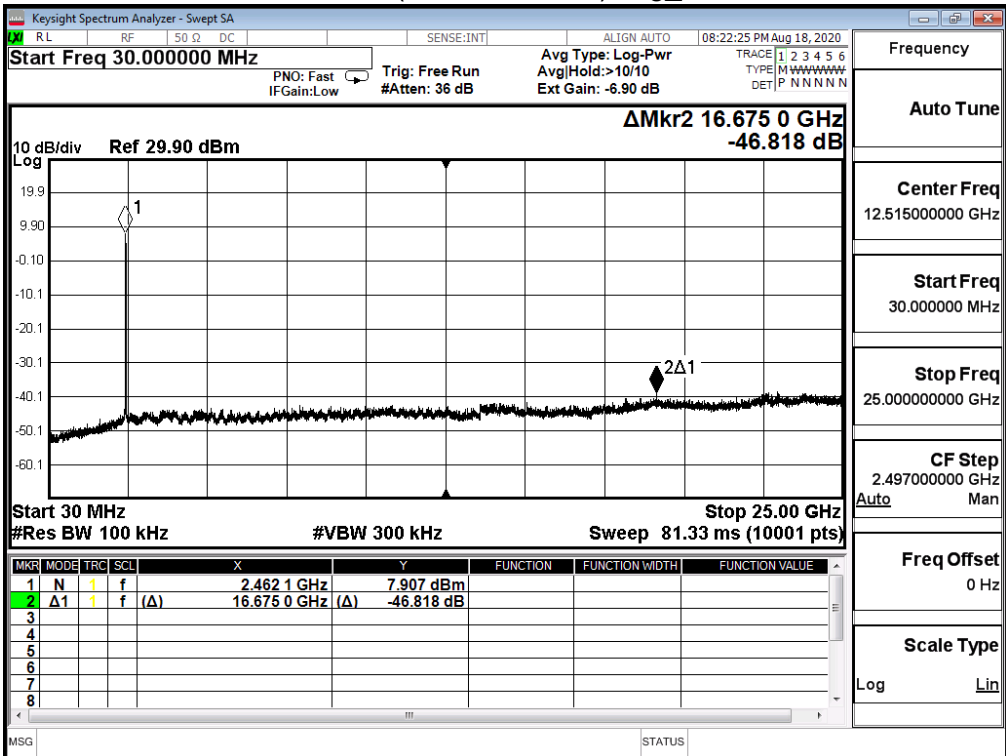
2412MHz (30MHz-25GHz)-11g_Ant 0



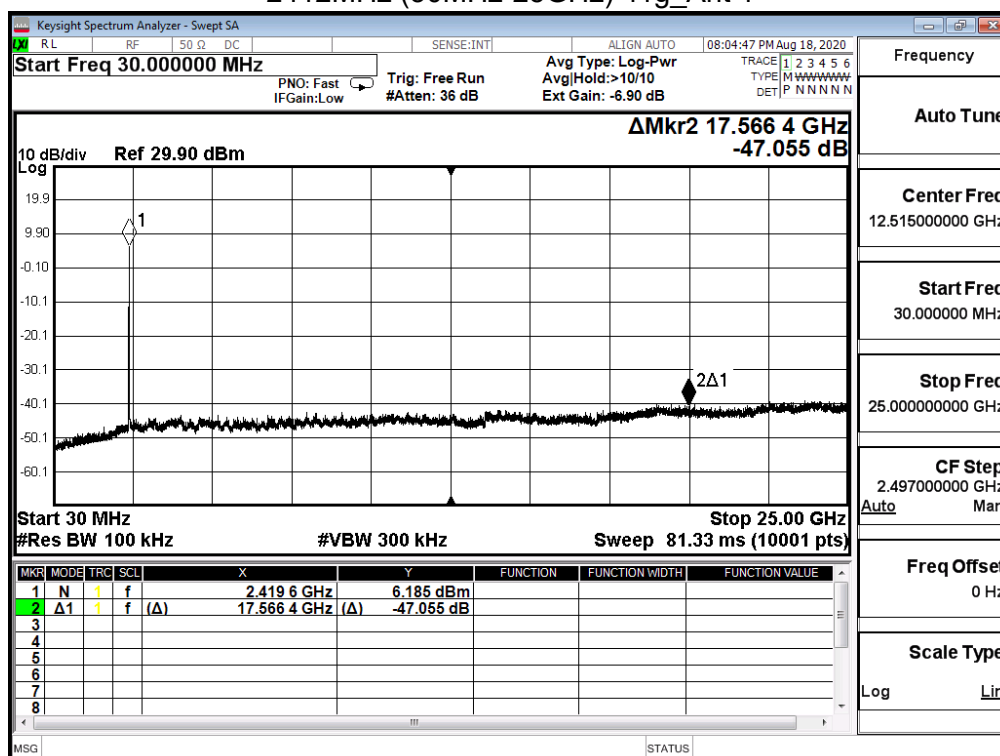
2437MHz (30MHz-25GHz)- 11g_Ant 0



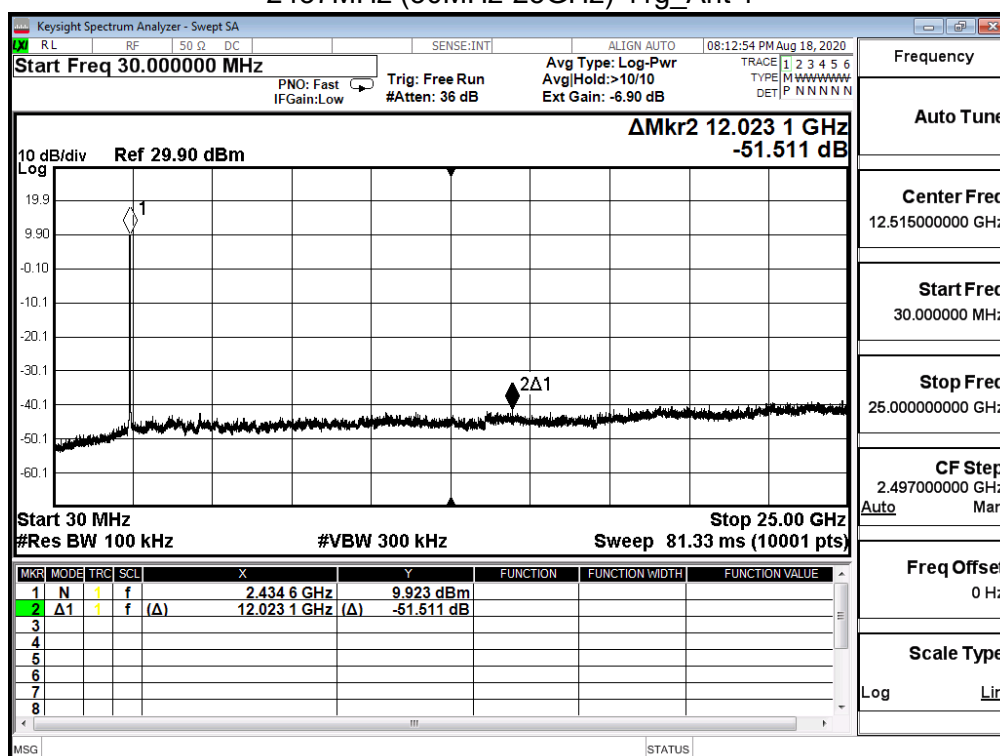
2462MHz (30MHz-25GHz)-11g_Ant 0



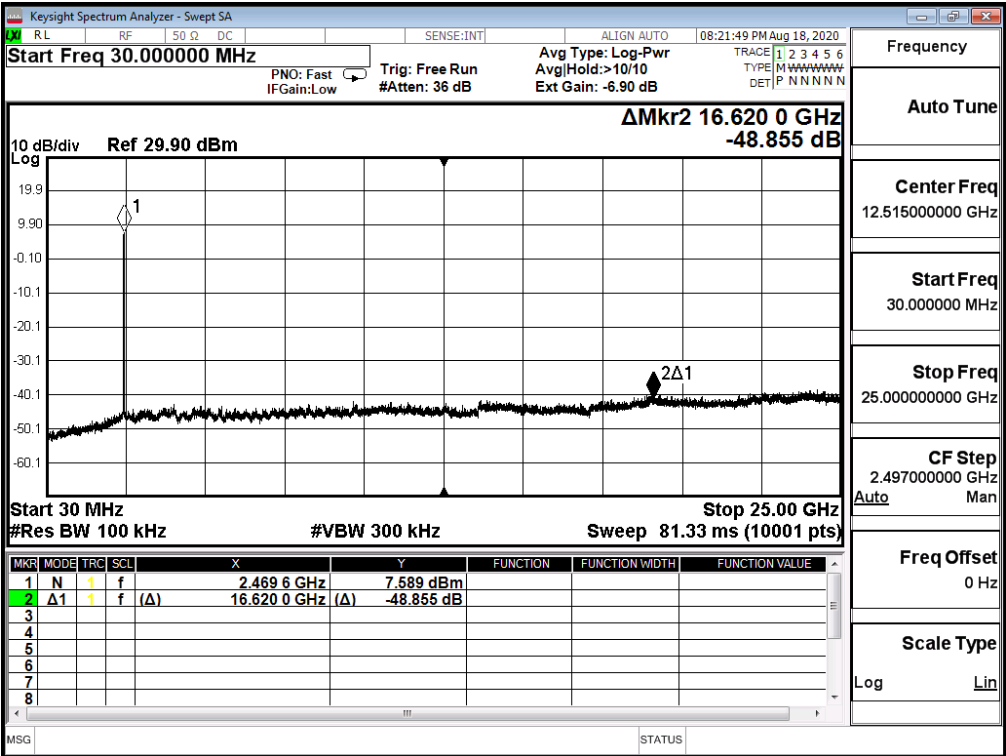
2412MHz (30MHz-25GHz)-11g_Ant 1



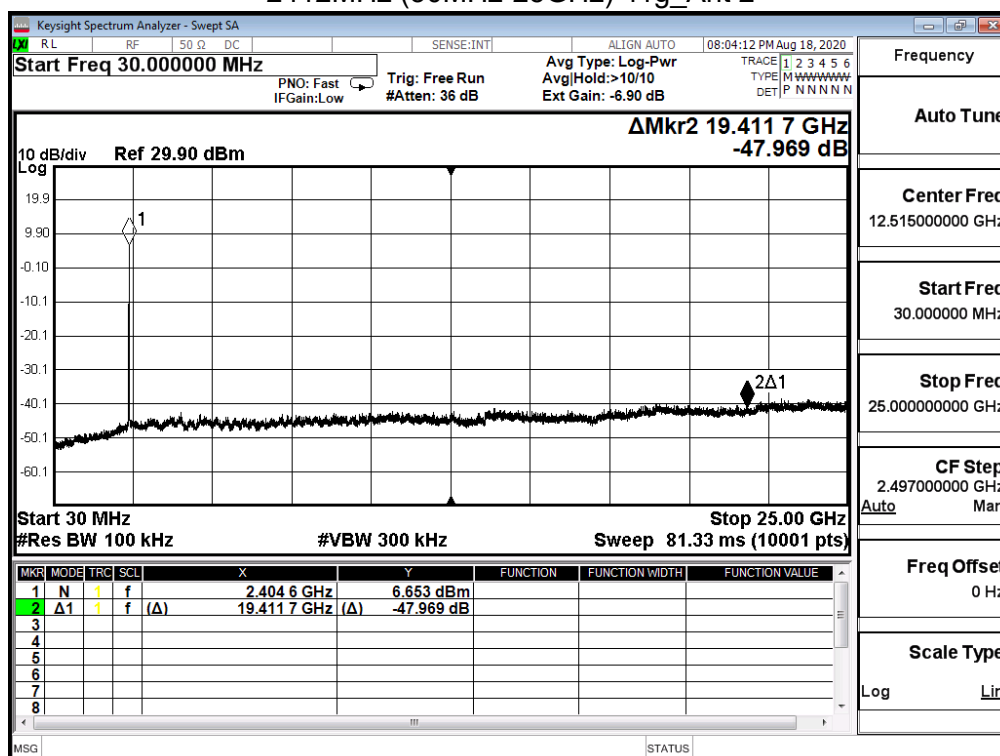
2437MHz (30MHz-25GHz)-11g_Ant 1



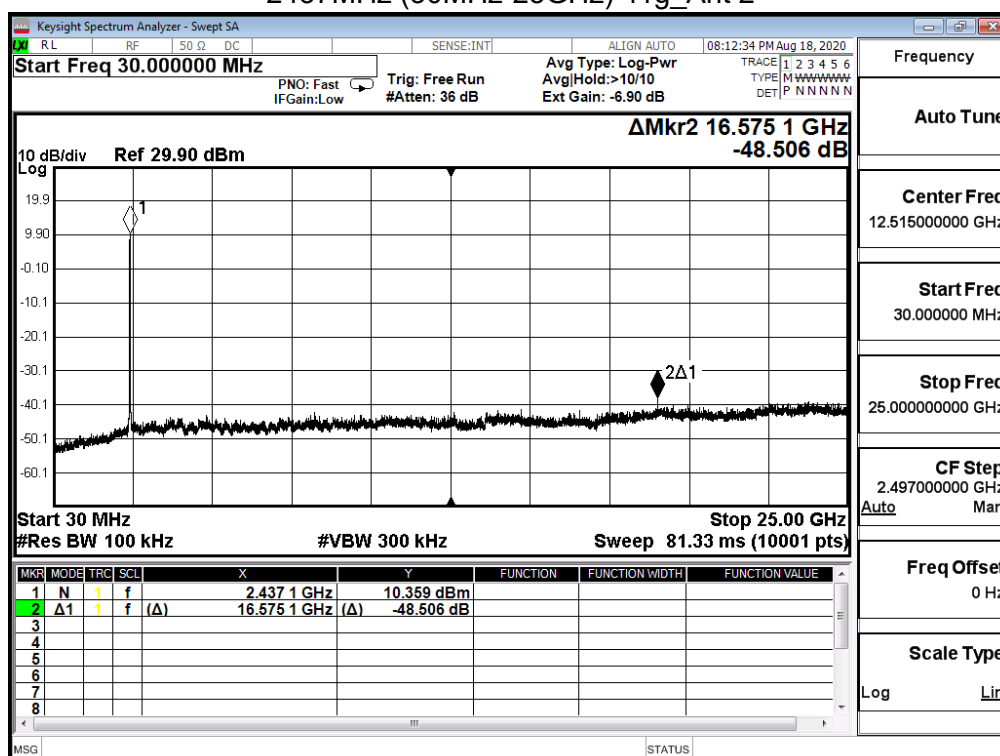
2462MHz (30MHz-25GHz)-11g_Ant 1



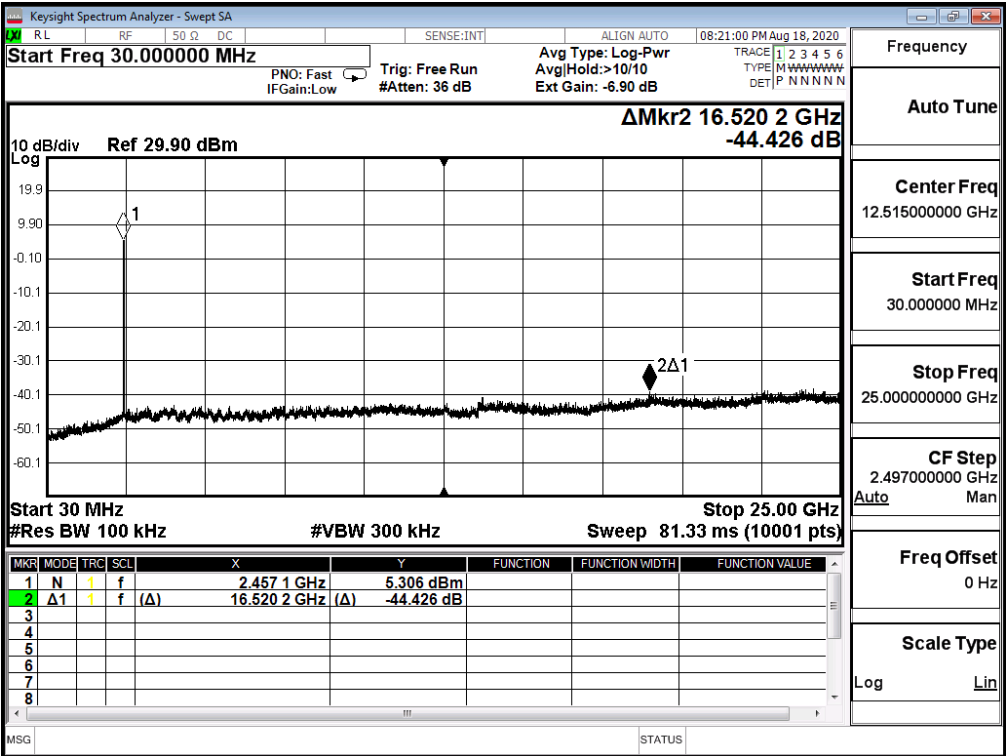
2412MHz (30MHz-25GHz)-11g_Ant 2



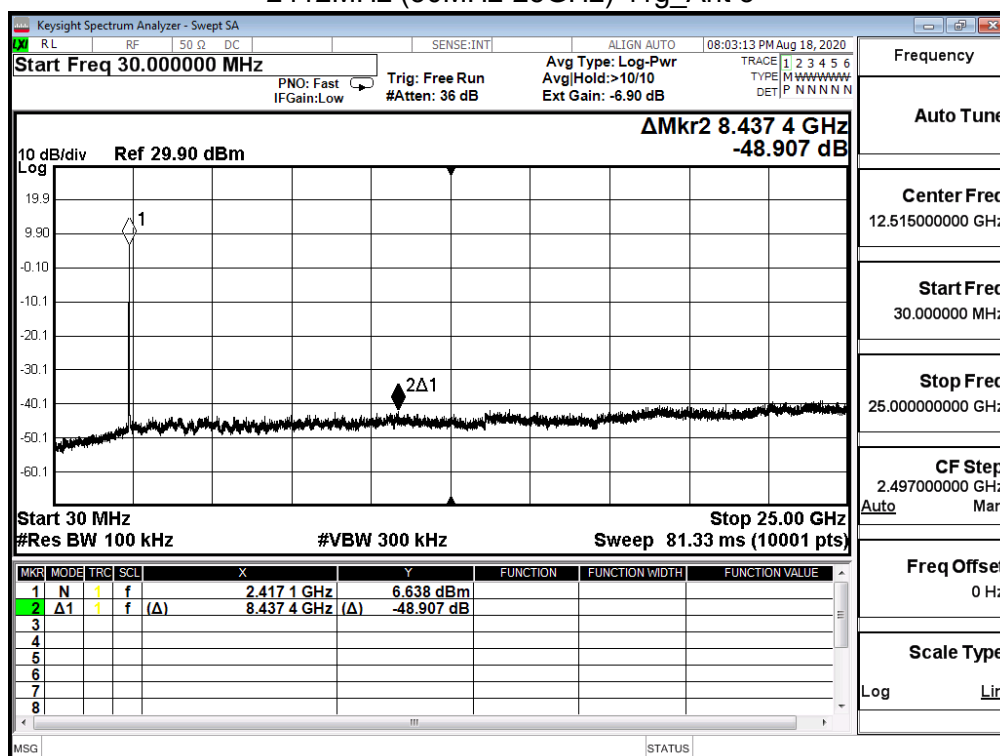
2437MHz (30MHz-25GHz)-11g_Ant 2



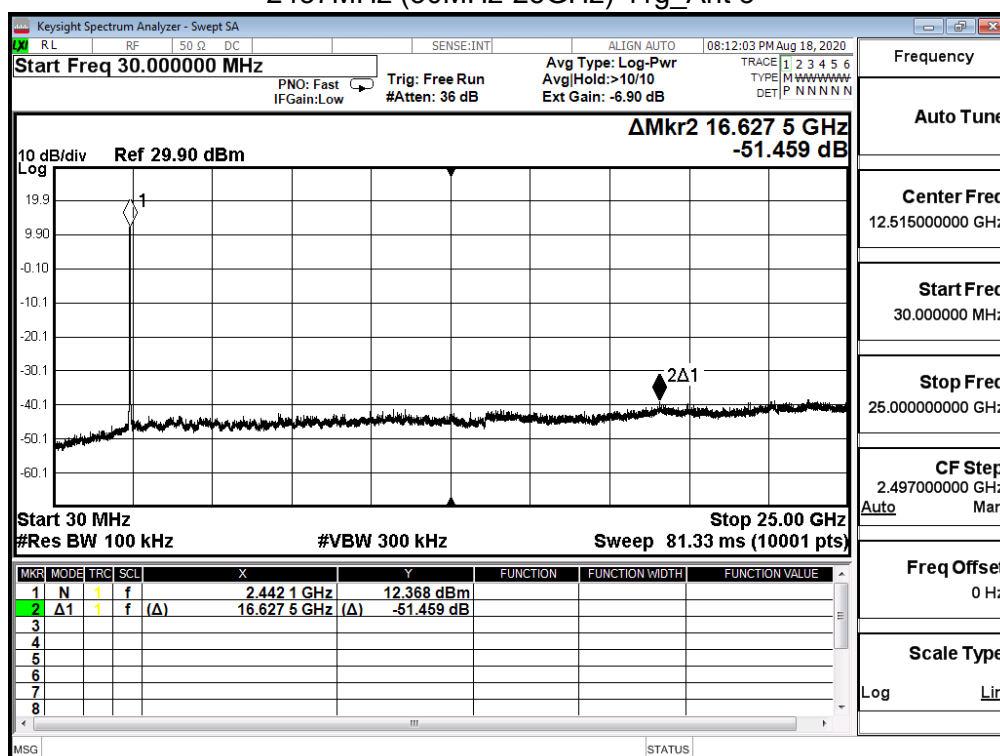
2462MHz (30MHz-25GHz)-11g_Ant 2



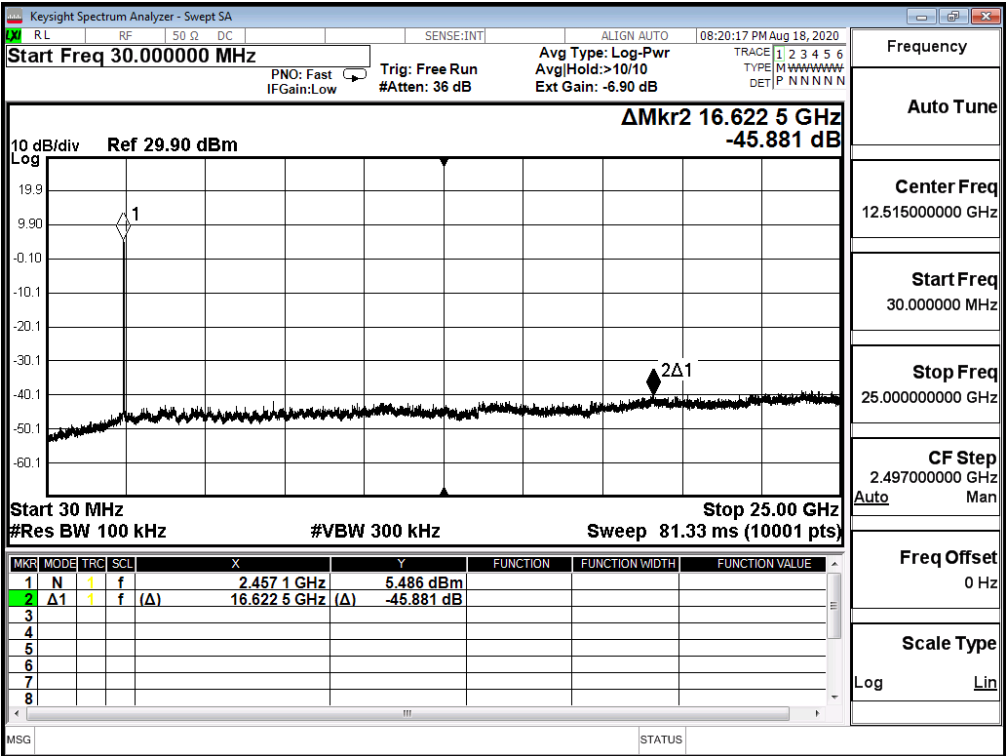
2412MHz (30MHz-25GHz)-11g_Ant 3



2437MHz (30MHz-25GHz)-11g_Ant 3

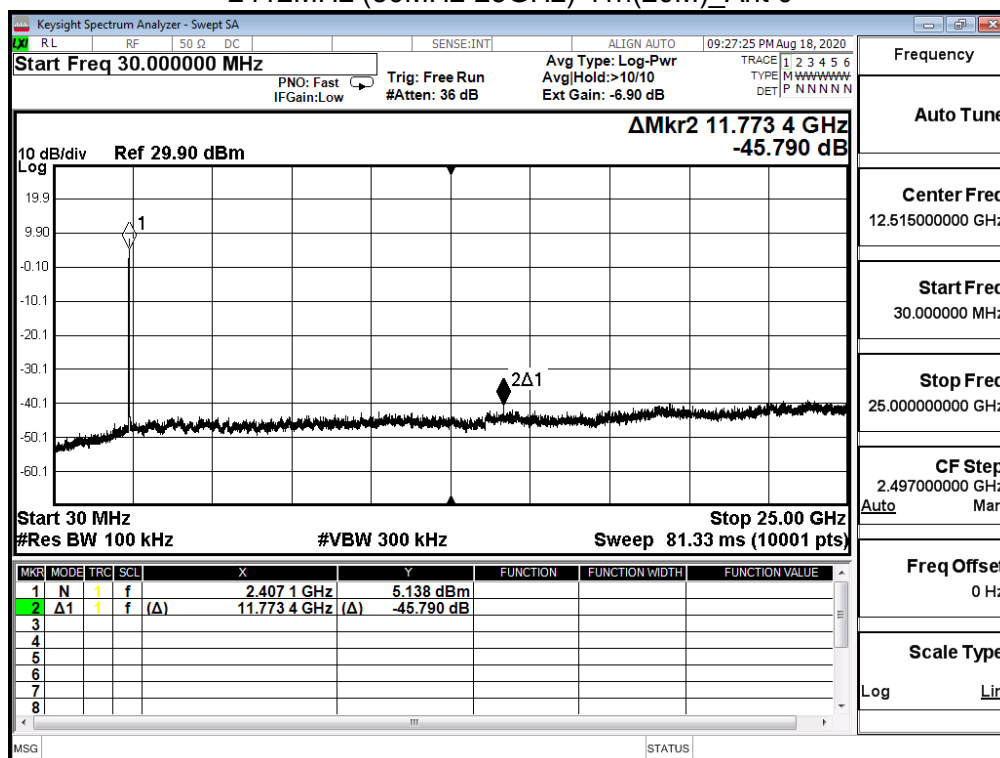


2462MHz (30MHz-25GHz)-11g_Ant 3

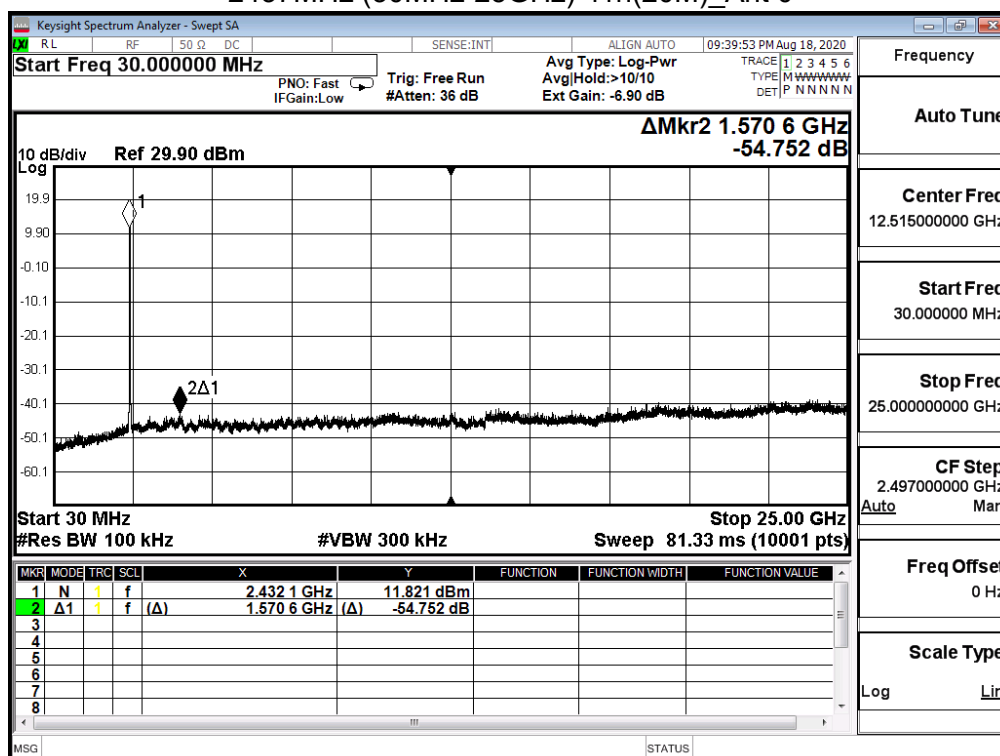


Product	FiberGateway		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: CDD Mode		
Date of Test	2020/08/19	Test Site	SR12-H
Test Temperature	23.0°C	Test Humidity	67.0%

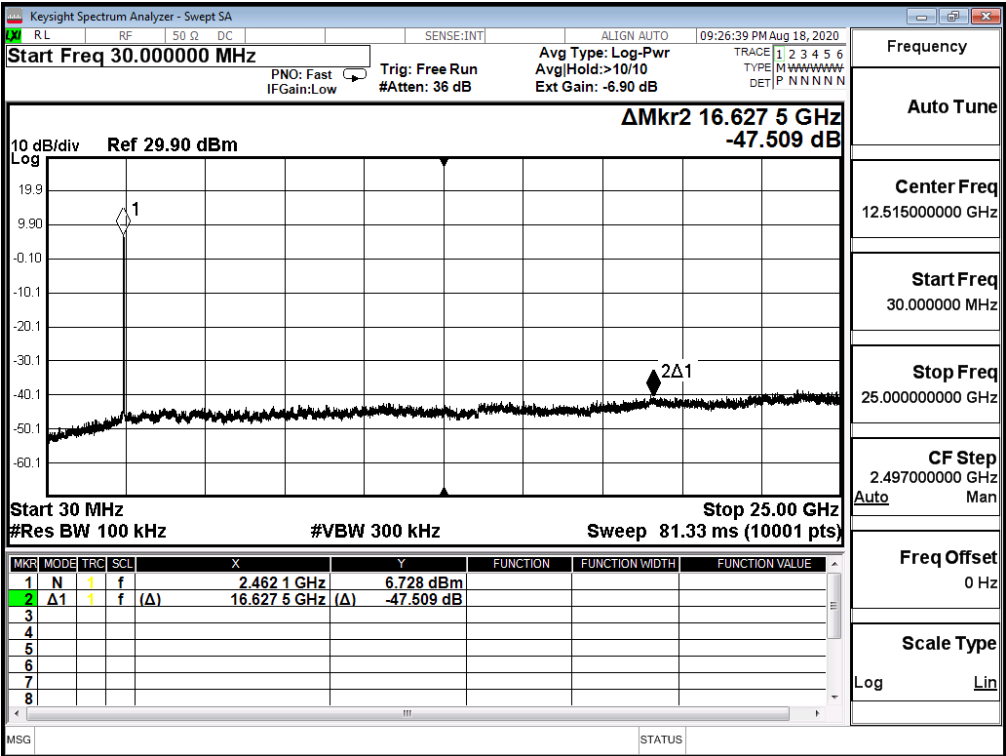
2412MHz (30MHz-25GHz)-11n(20M)_Ant 0



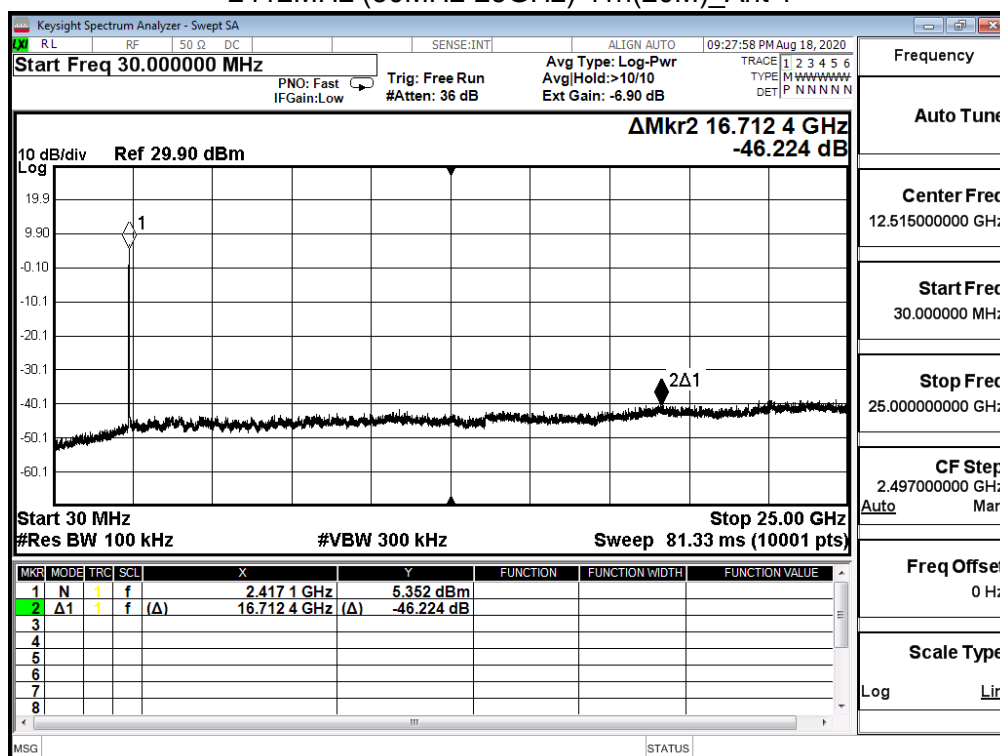
2437MHz (30MHz-25GHz)-11n(20M)_Ant 0



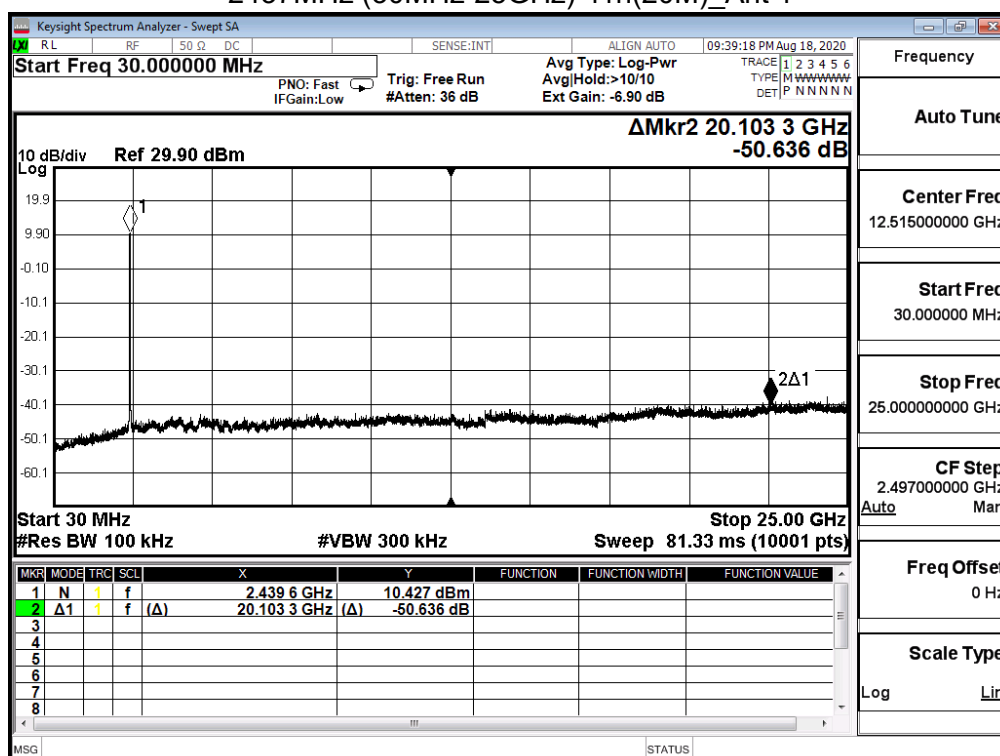
2462MHz (30MHz-25GHz)-11n(20M)_Ant 0



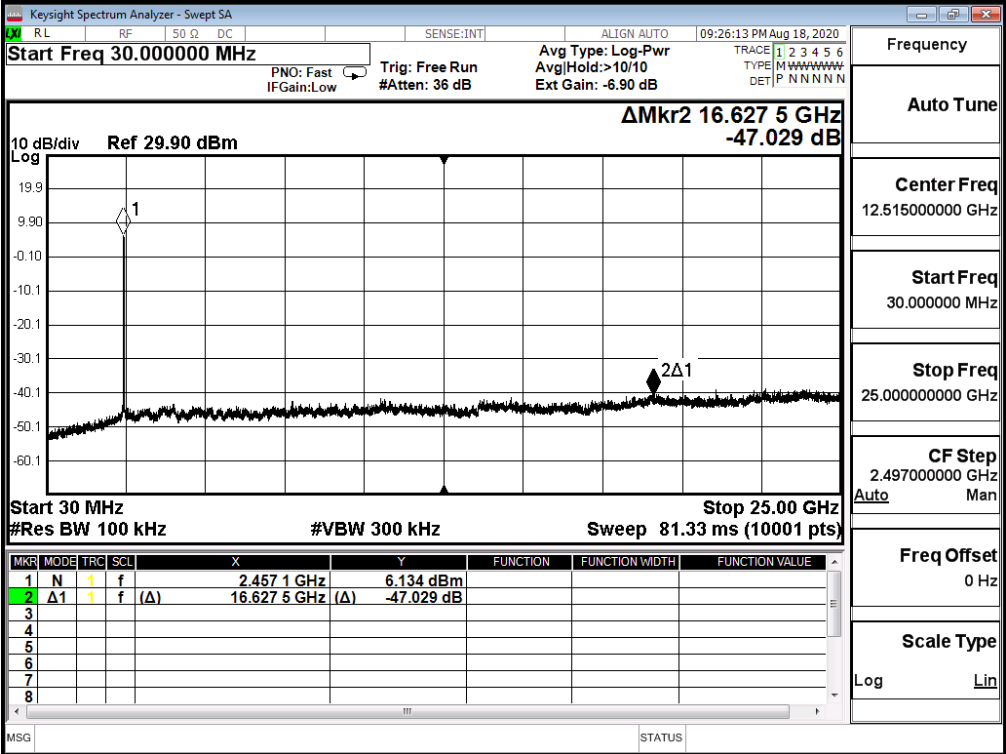
2412MHz (30MHz-25GHz)-11n(20M)_Ant 1



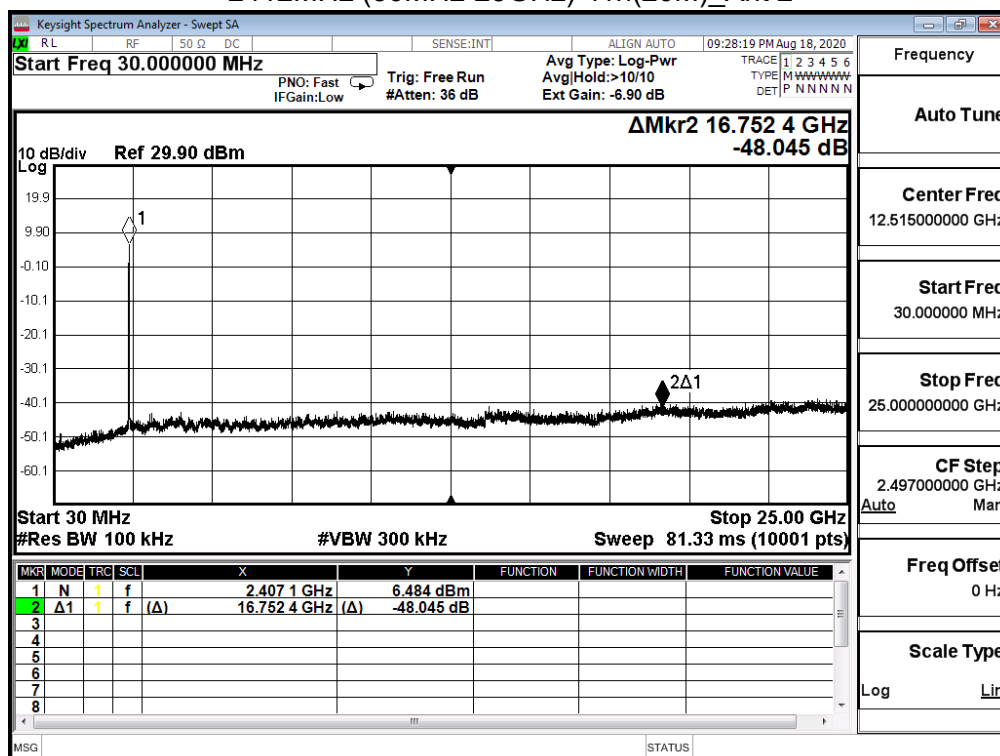
2437MHz (30MHz-25GHz)-11n(20M)_Ant 1



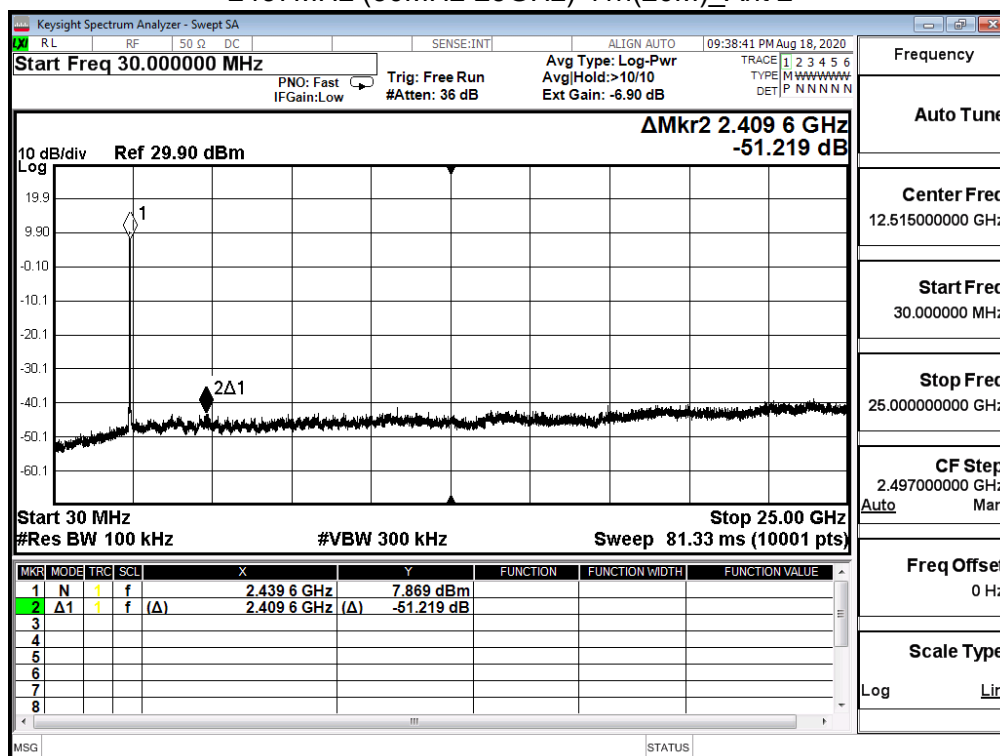
2462MHz (30MHz-25GHz)-11n(20M)_Ant 1



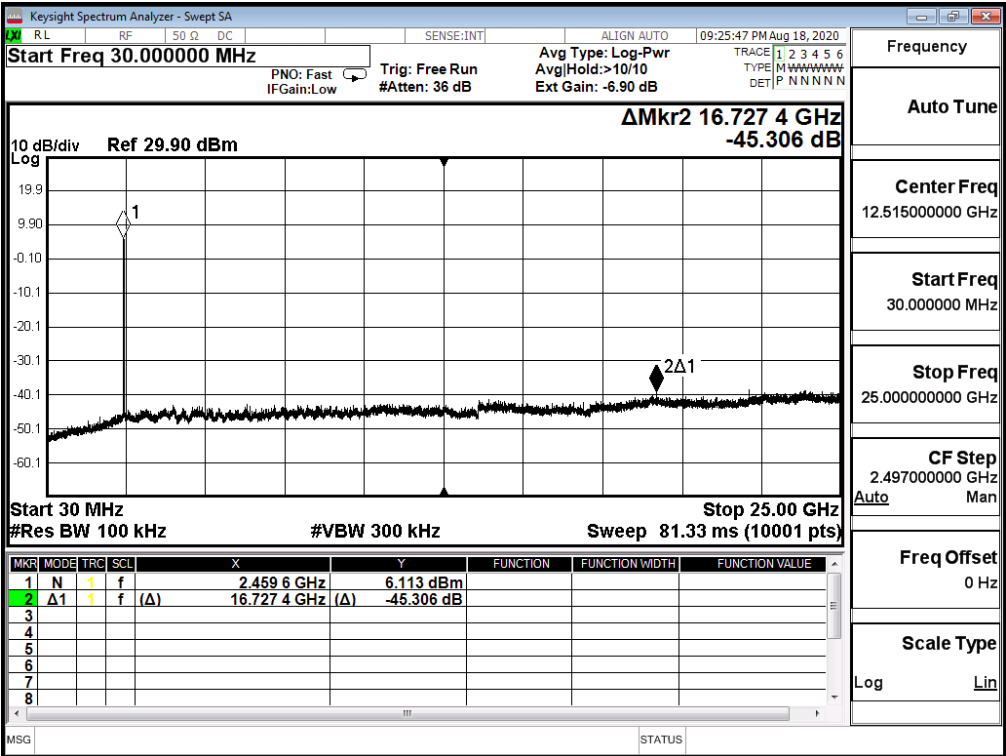
2412MHz (30MHz-25GHz)-11n(20M)_Ant 2



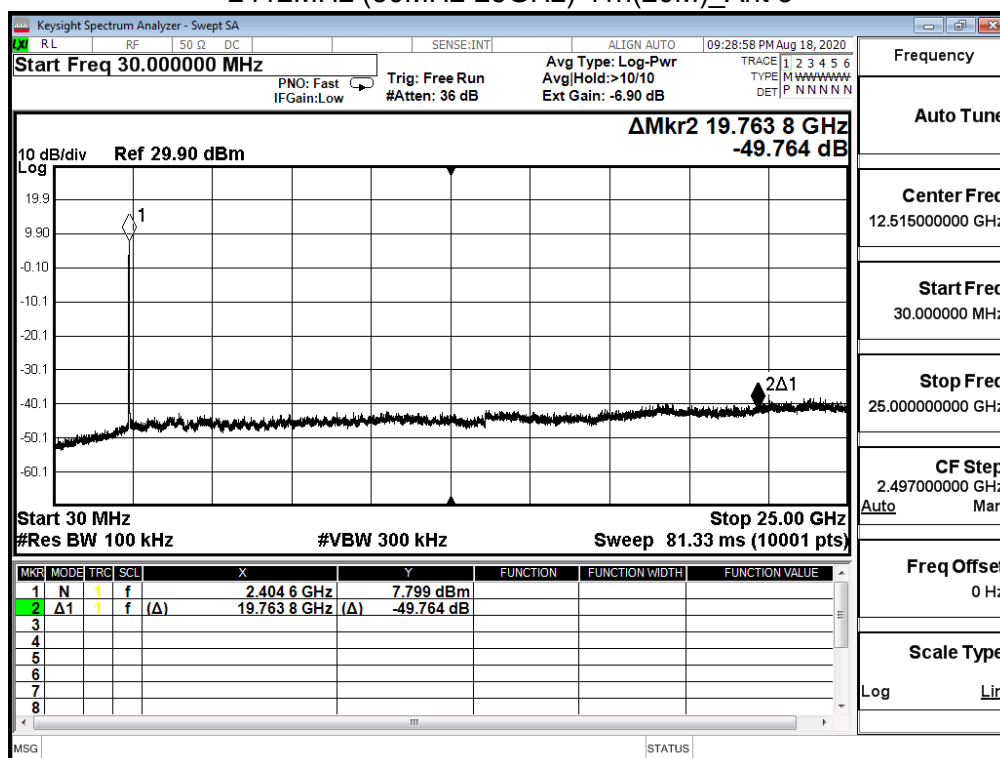
2437MHz (30MHz-25GHz)-11n(20M)_Ant 2



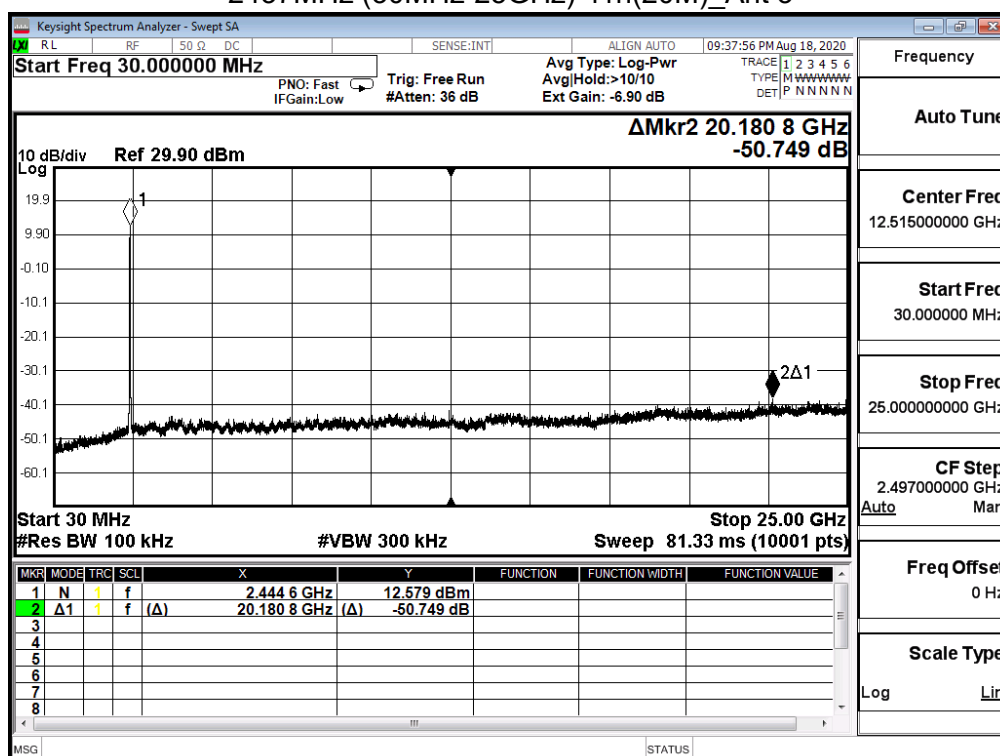
2462MHz (30MHz-25GHz)-11n(20M)_Ant 2



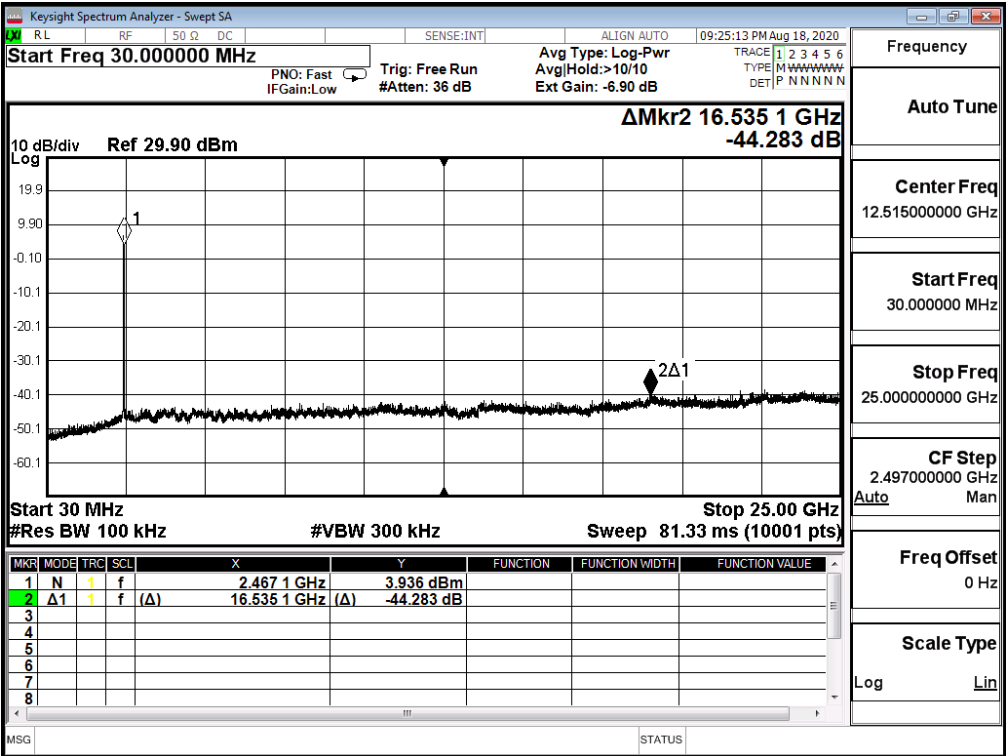
2412MHz (30MHz-25GHz)-11n(20M)_Ant 3



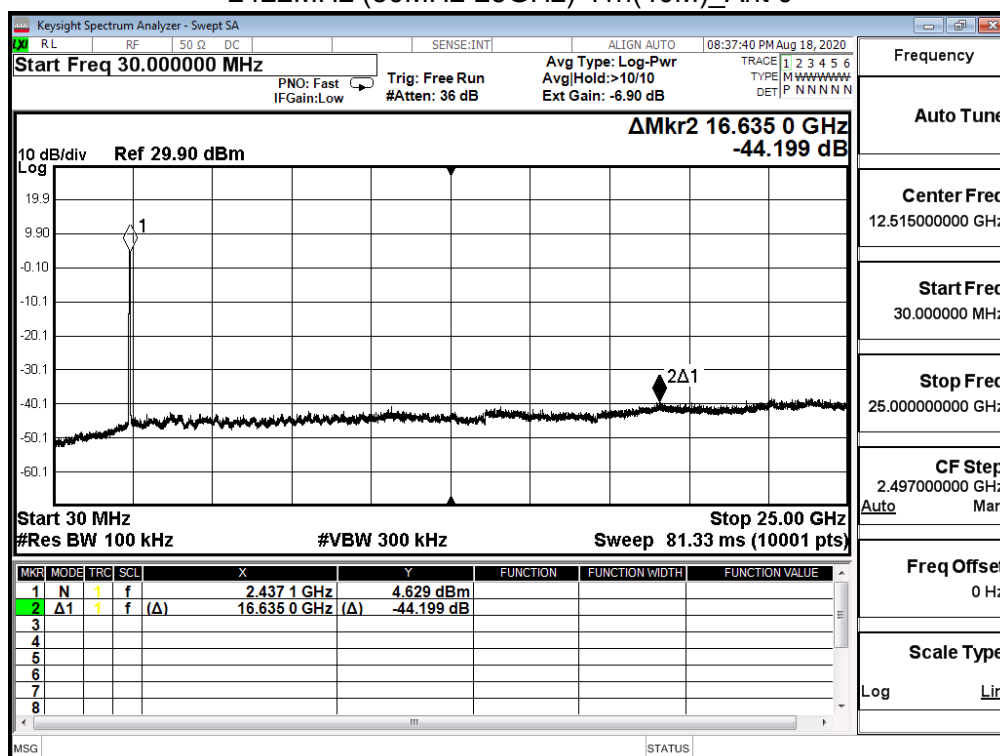
2437MHz (30MHz-25GHz)-11n(20M)_Ant 3



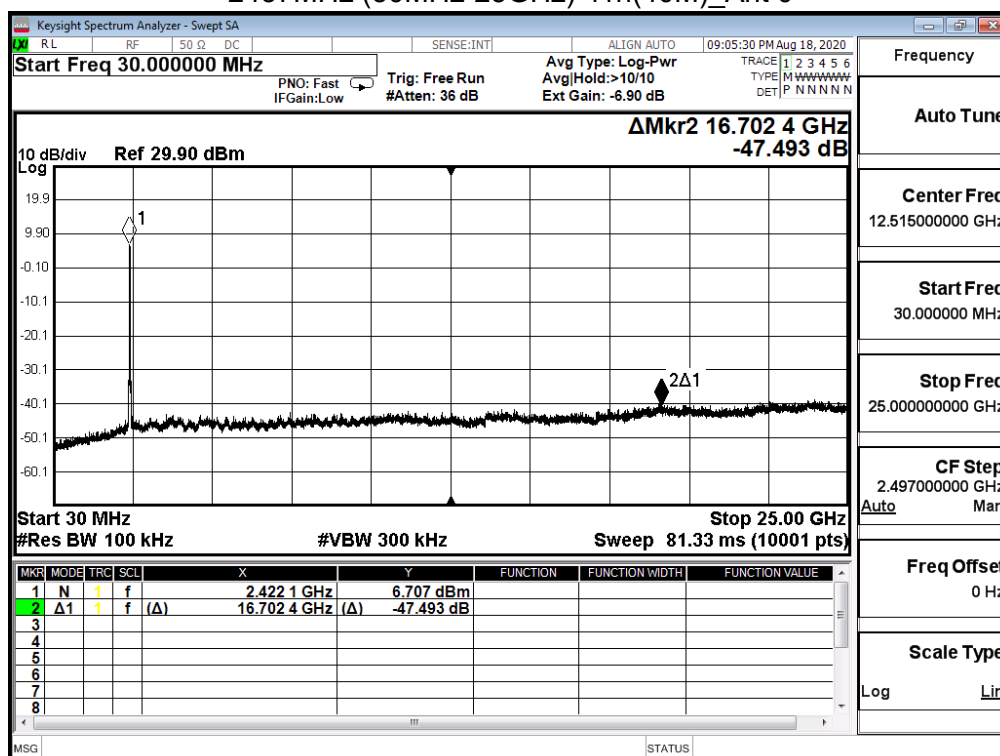
2462MHz (30MHz-25GHz)-11n(20M)_Ant 3



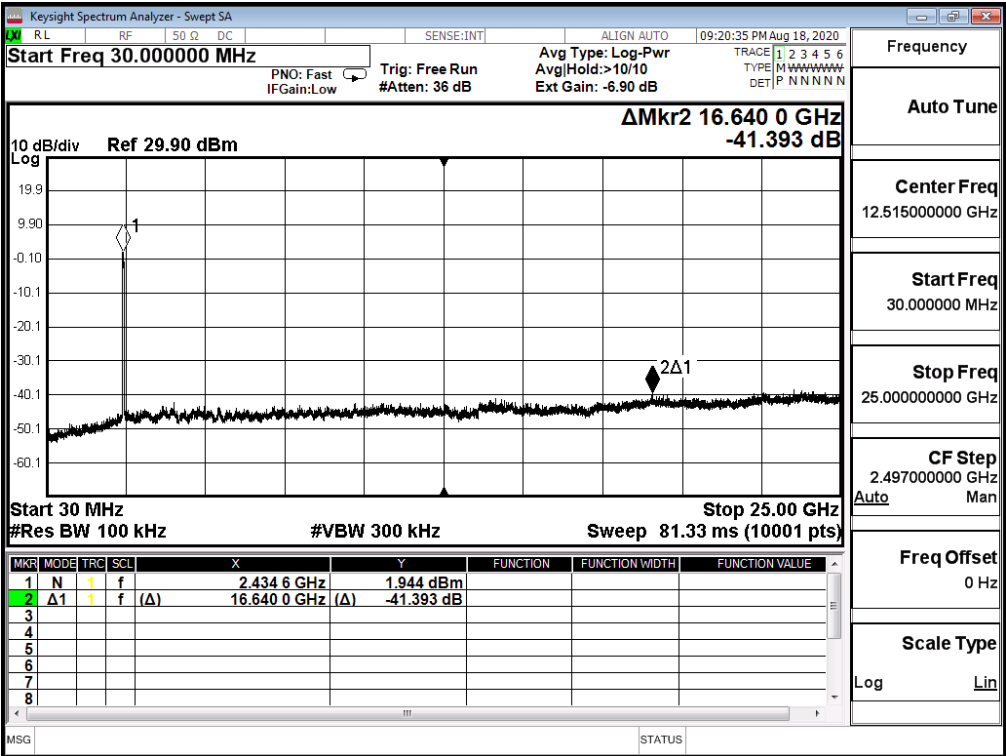
2422MHz (30MHz-25GHz)-11n(40M)_Ant 0



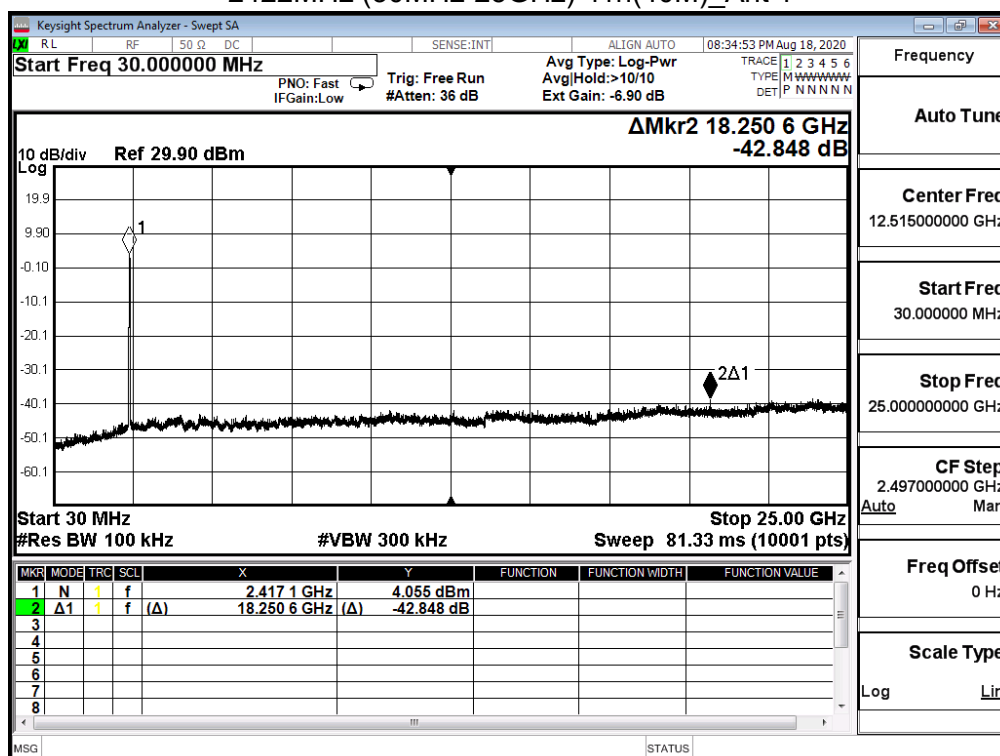
2437MHz (30MHz-25GHz)-11n(40M)_Ant 0



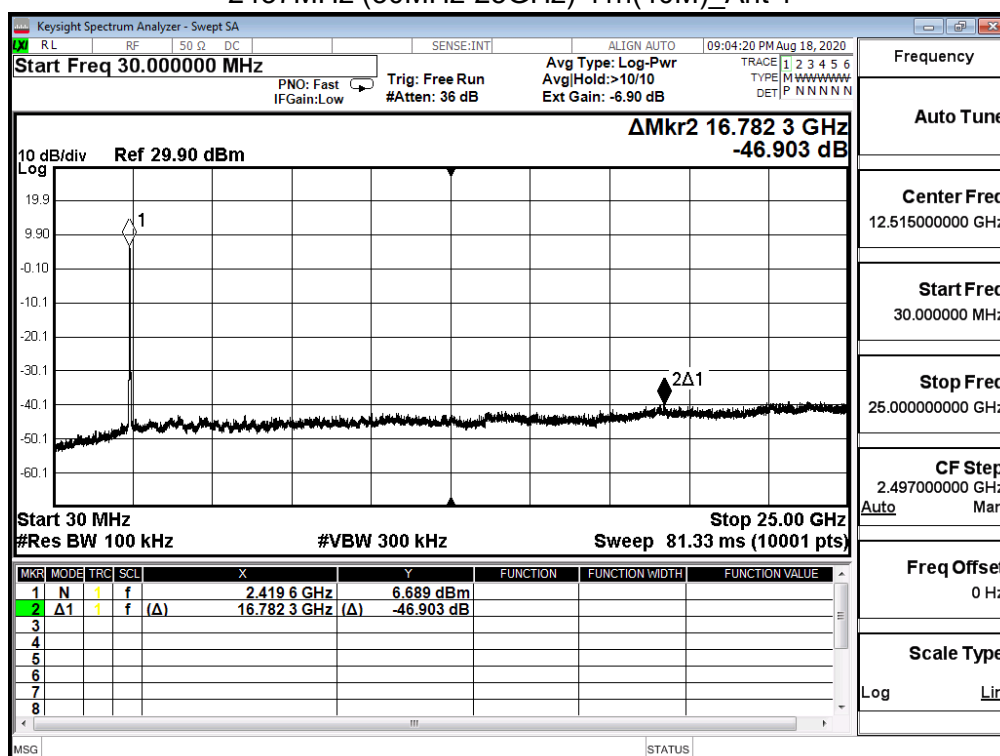
2452MHz (30MHz-25GHz)-11n(40M)_Ant 0



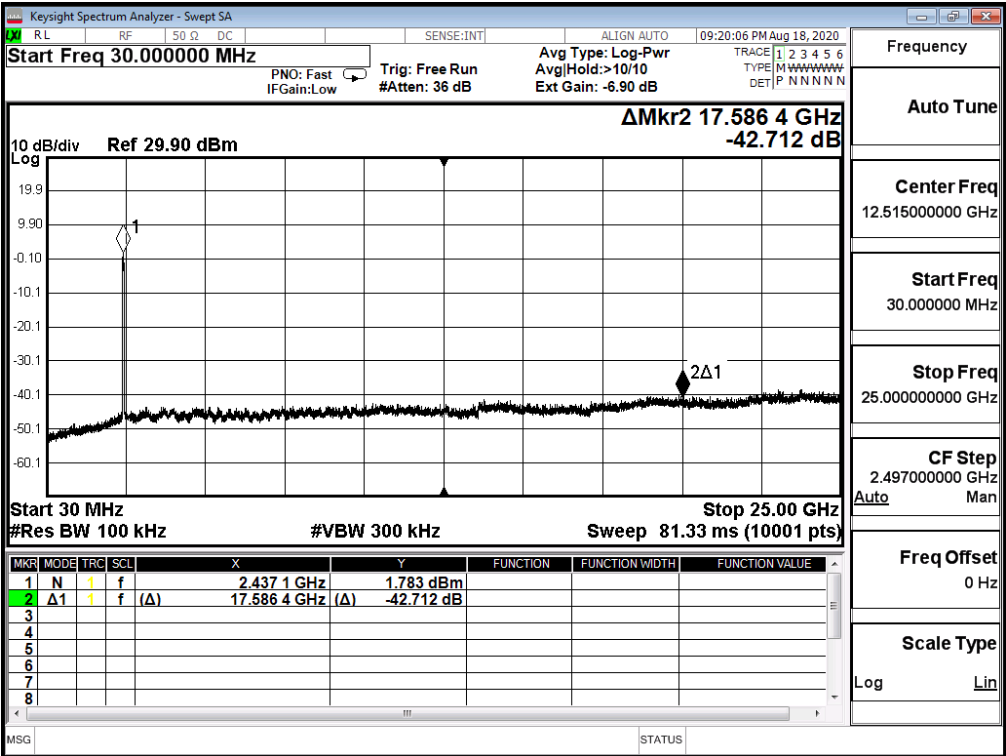
2422MHz (30MHz-25GHz)-11n(40M)_Ant 1



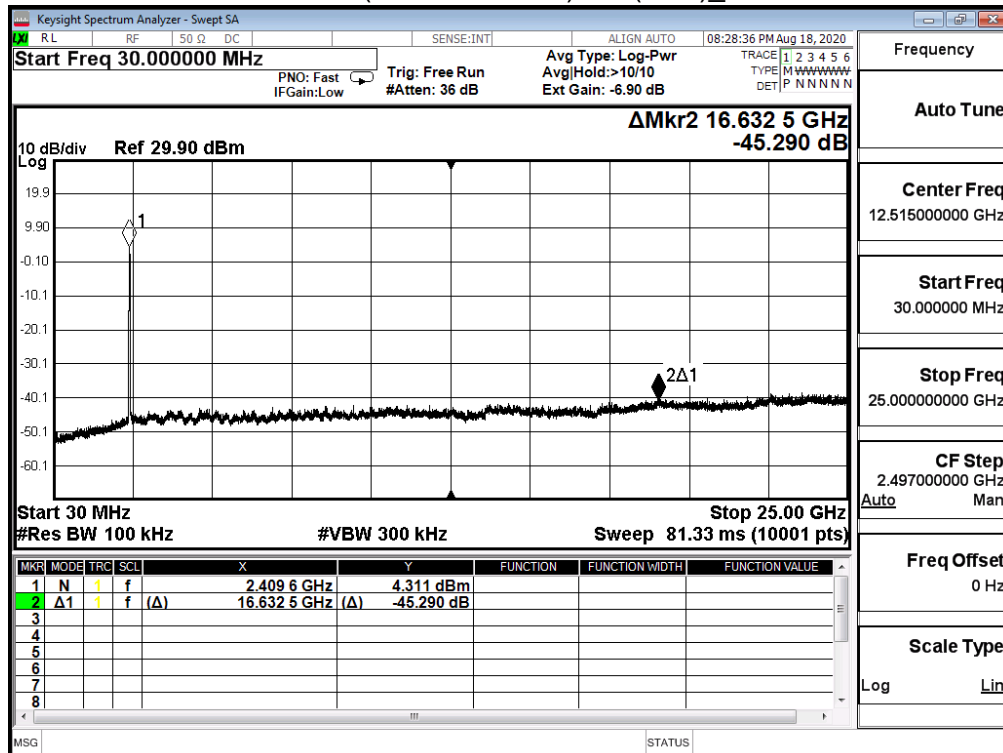
2437MHz (30MHz-25GHz)-11n(40M)_Ant 1



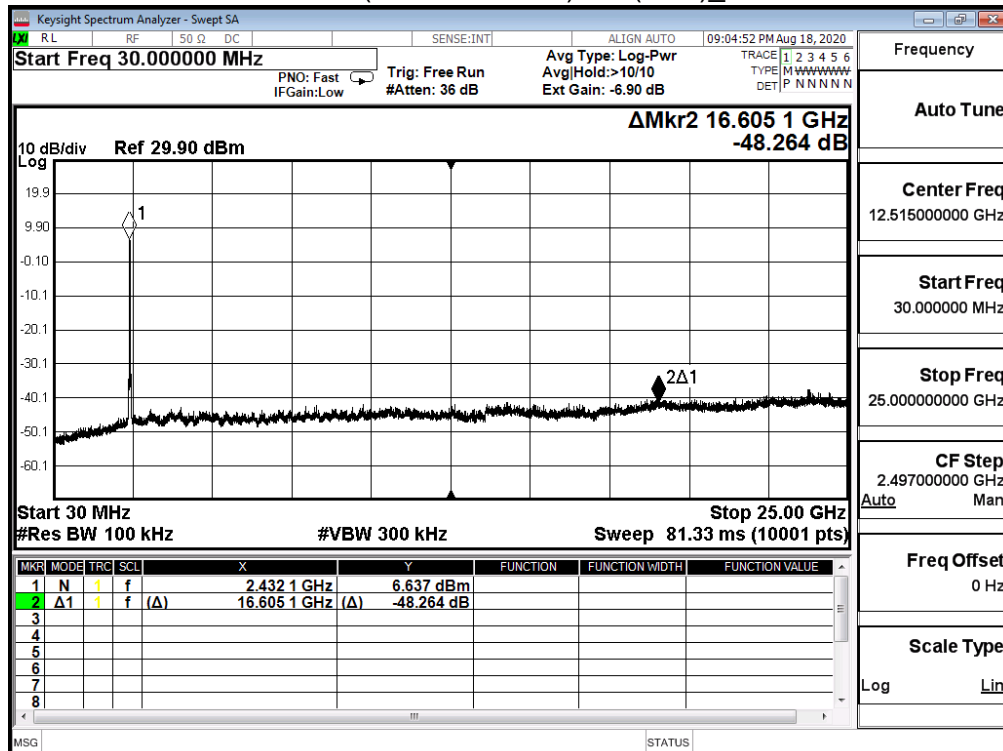
2452MHz (30MHz-25GHz)-11n(40M)_Ant 1



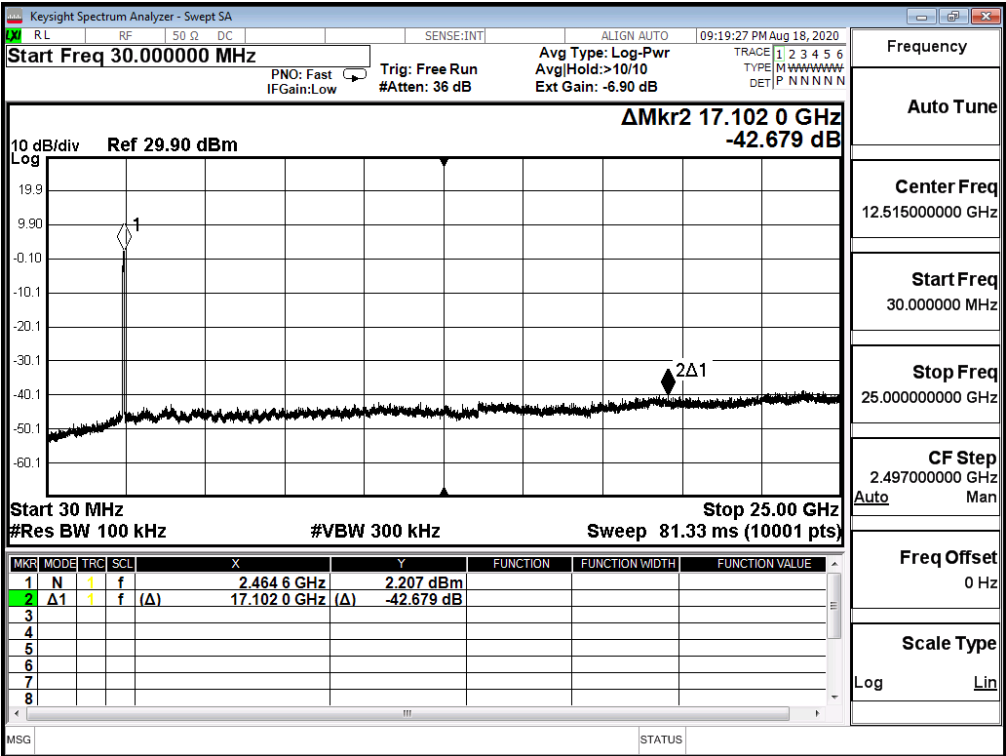
2422MHz (30MHz-25GHz)-11n(40M)_Ant 2



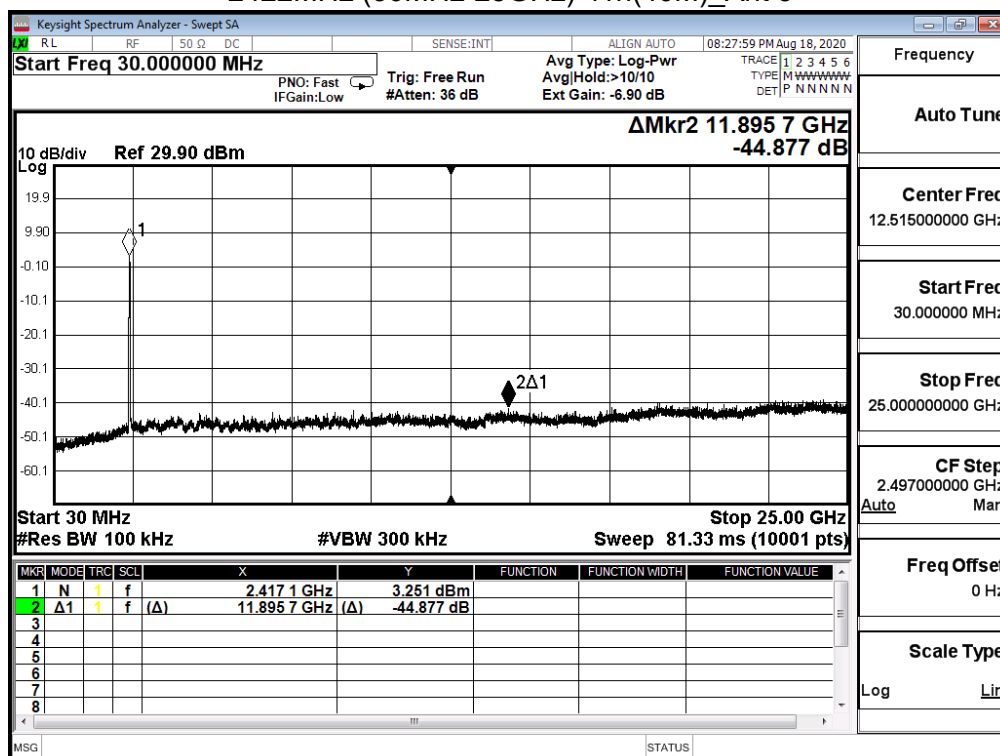
2437MHz (30MHz-25GHz)-11n(40M)_Ant 2



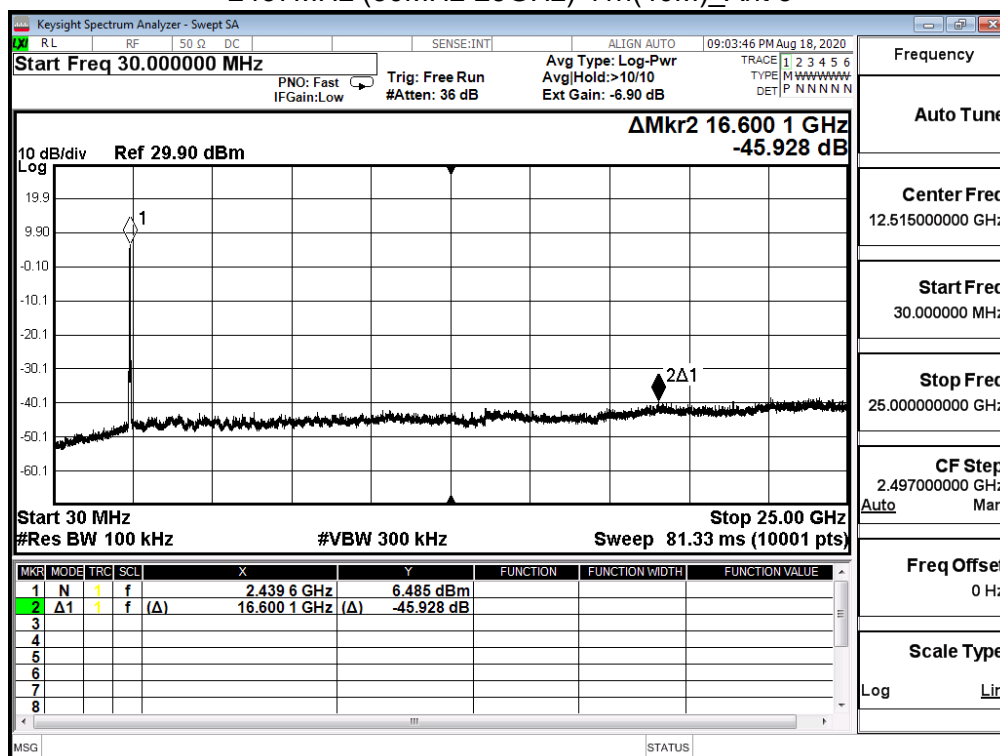
2452MHz (30MHz-25GHz)-11n(40M)_Ant 2



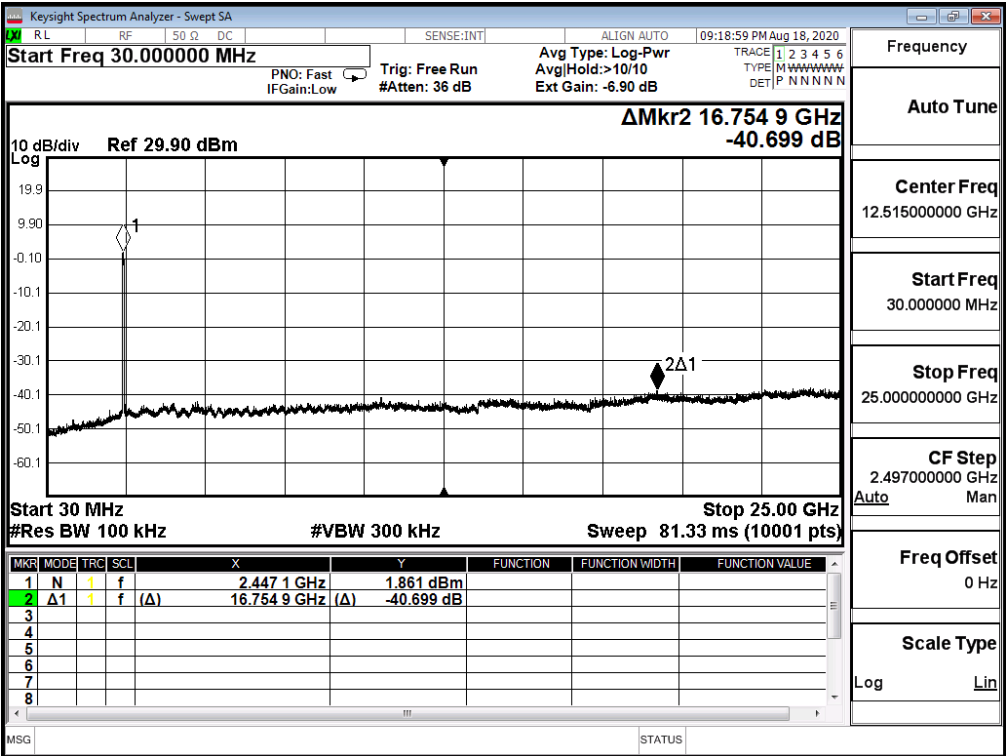
2422MHz (30MHz-25GHz)-11n(40M)_Ant 3



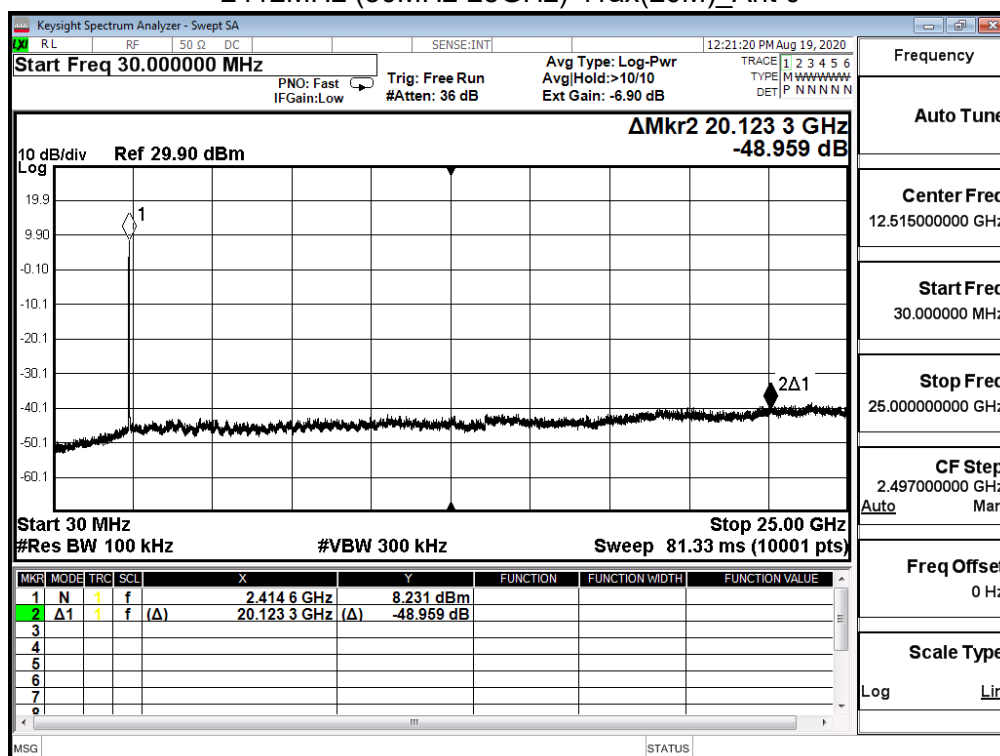
2437MHz (30MHz-25GHz)-11n(40M)_Ant 3



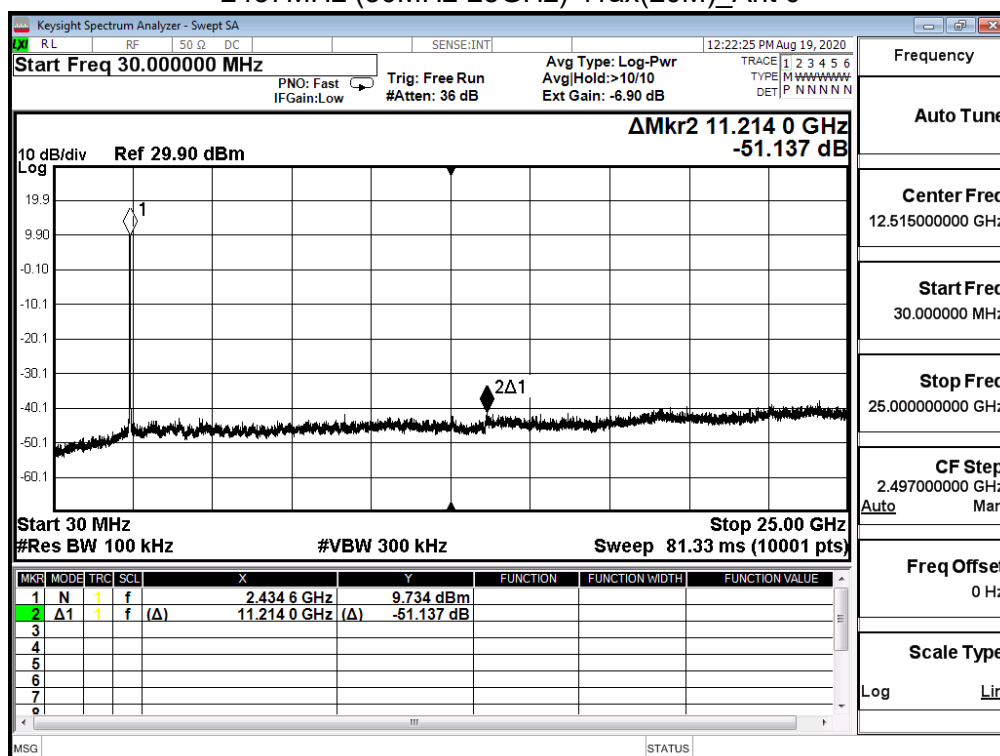
2452MHz (30MHz-25GHz)-11n(40M)_Ant 3



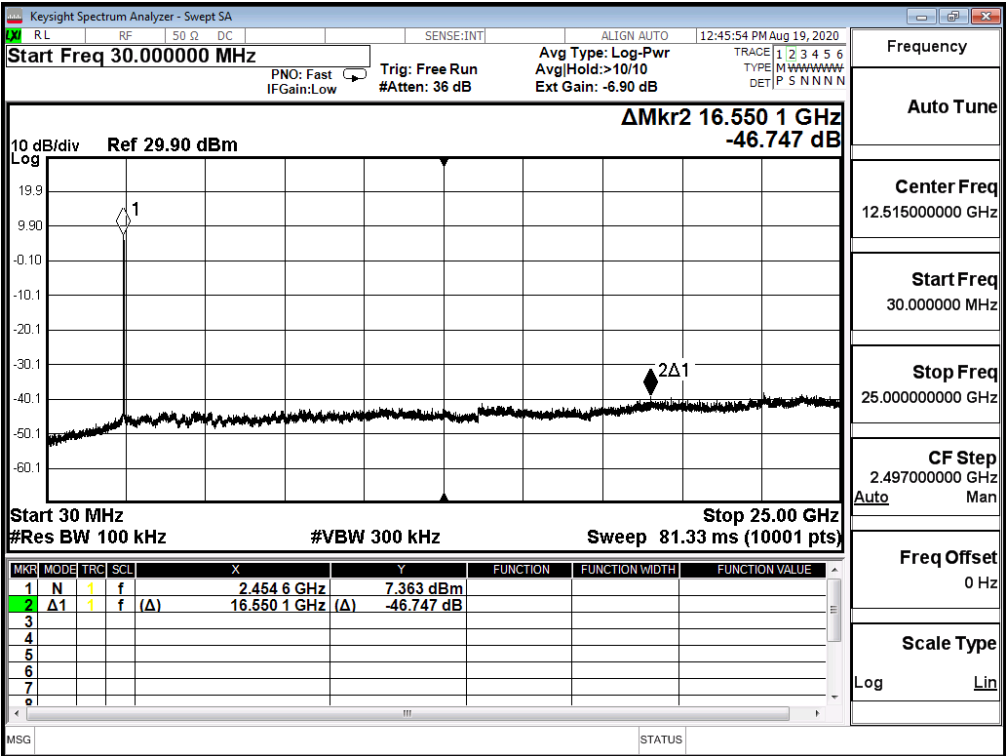
2412MHz (30MHz-25GHz)-11ax(20M)_Ant 0



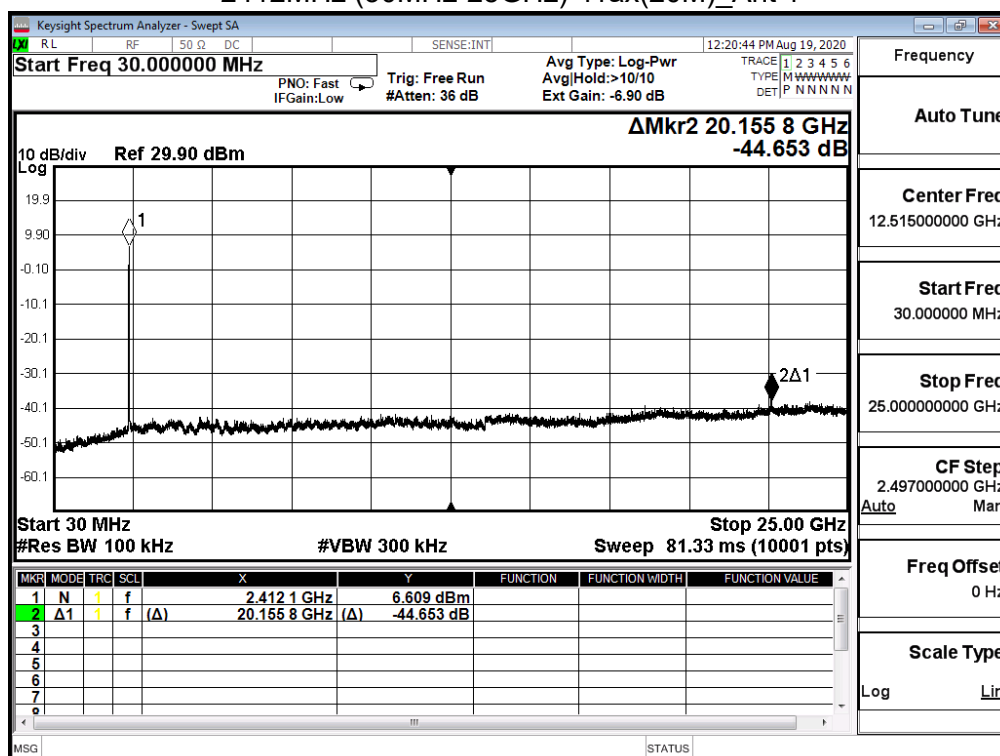
2437MHz (30MHz-25GHz)-11ax(20M)_Ant 0



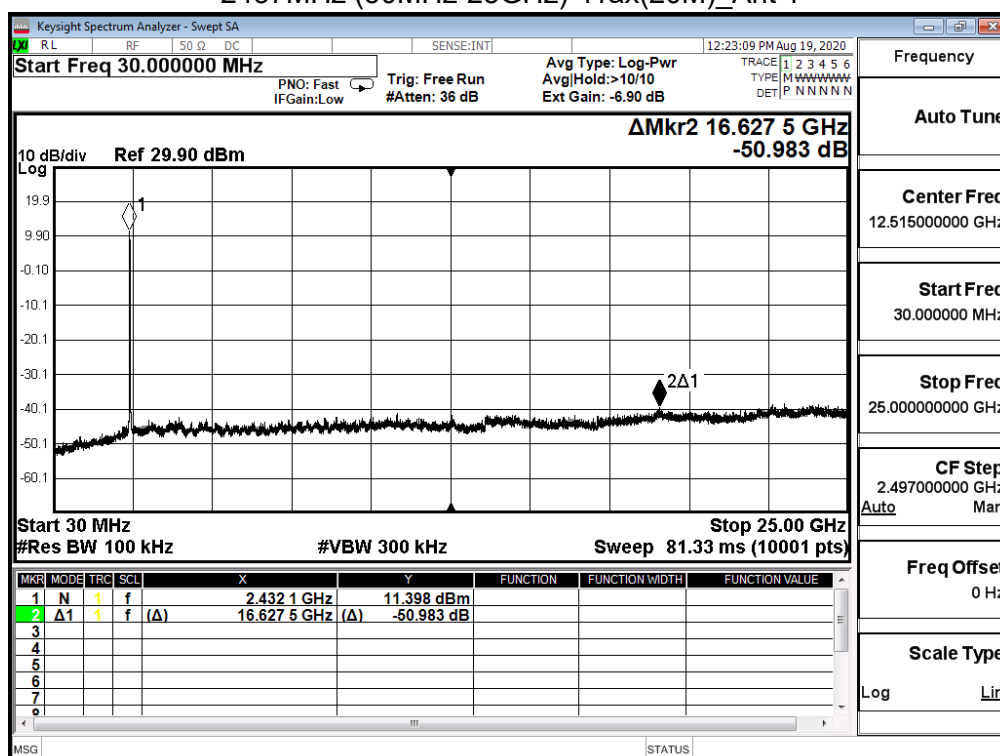
2462MHz (30MHz-25GHz)-11ax(20M)_Ant 0



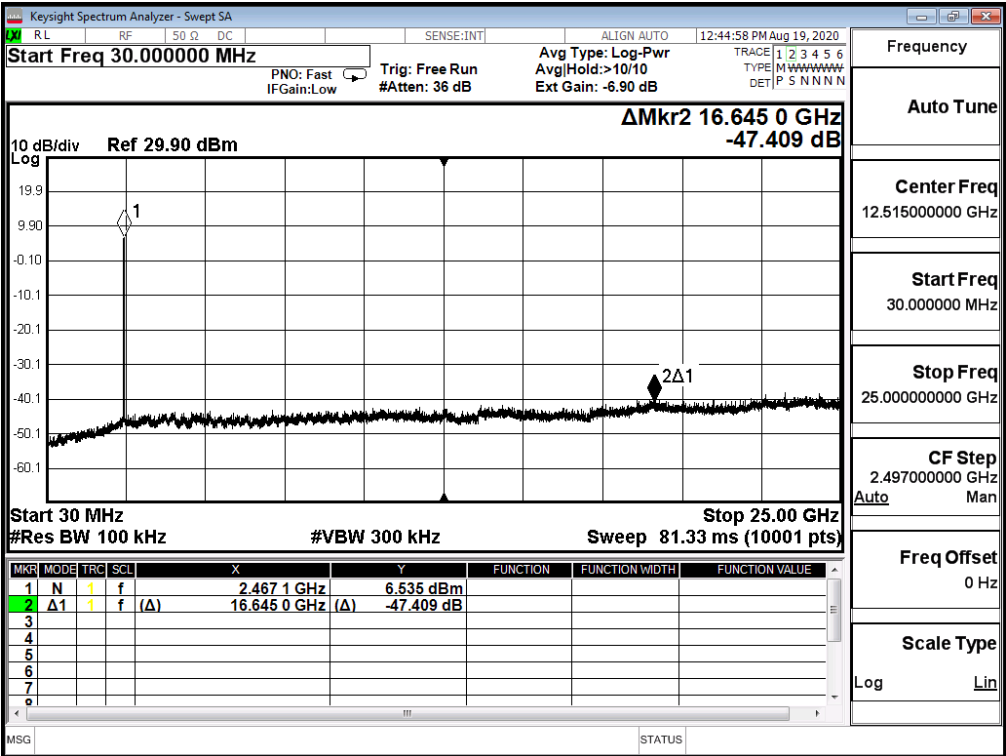
2412MHz (30MHz-25GHz)-11ax(20M)_Ant 1



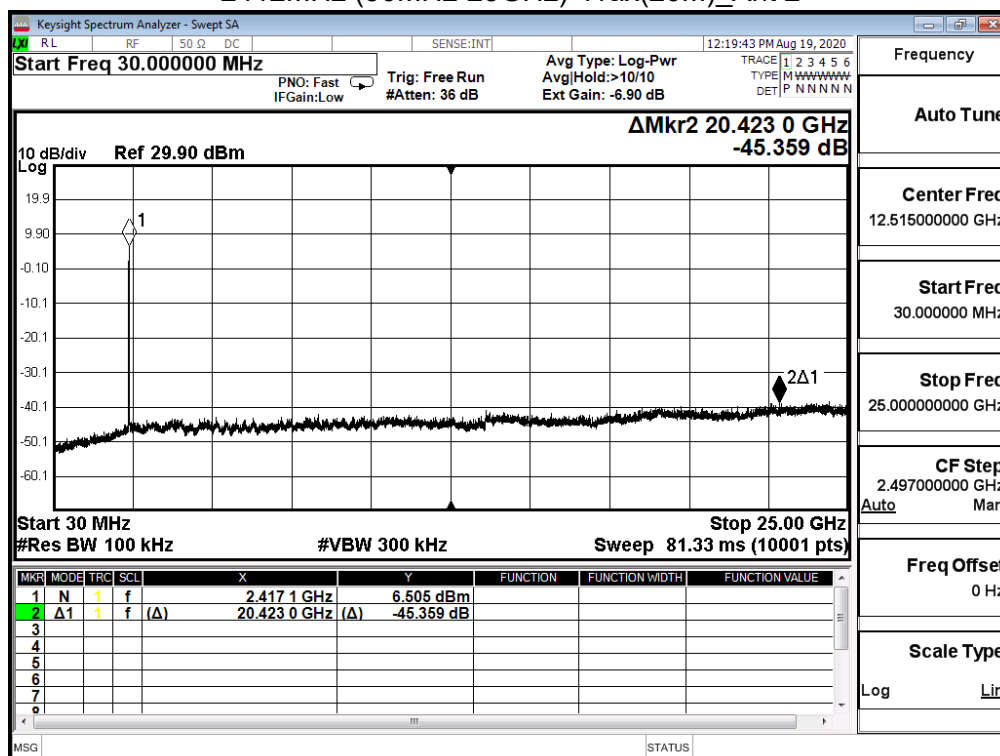
2437MHz (30MHz-25GHz)-11ax(20M)_Ant 1



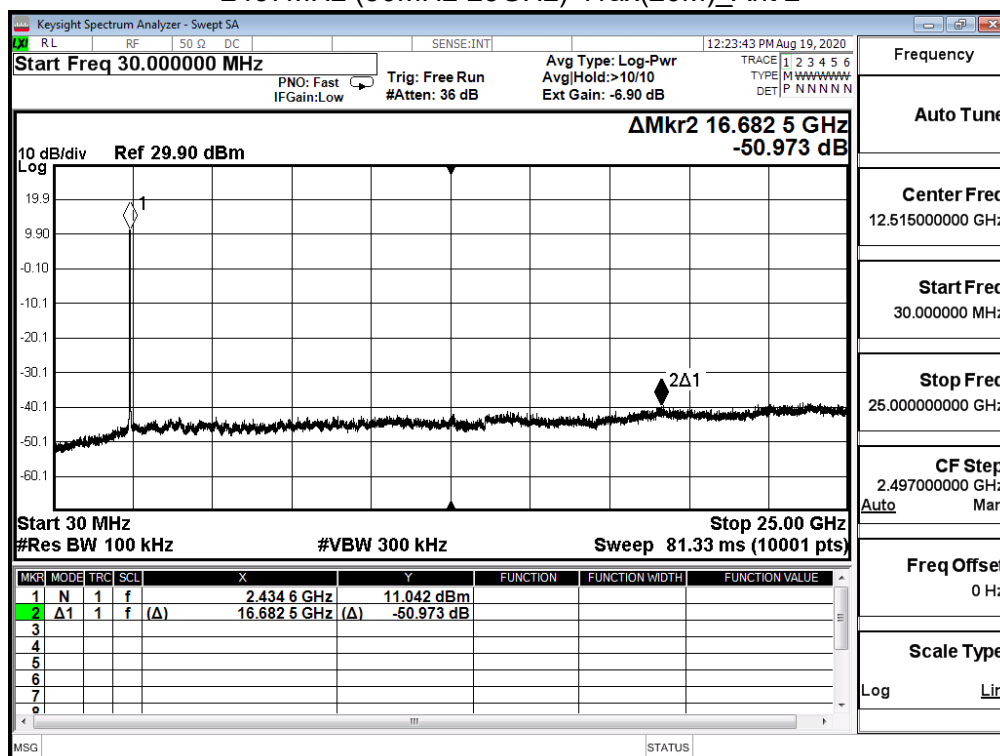
2462MHz (30MHz-25GHz)-11ax(20M)_Ant 1



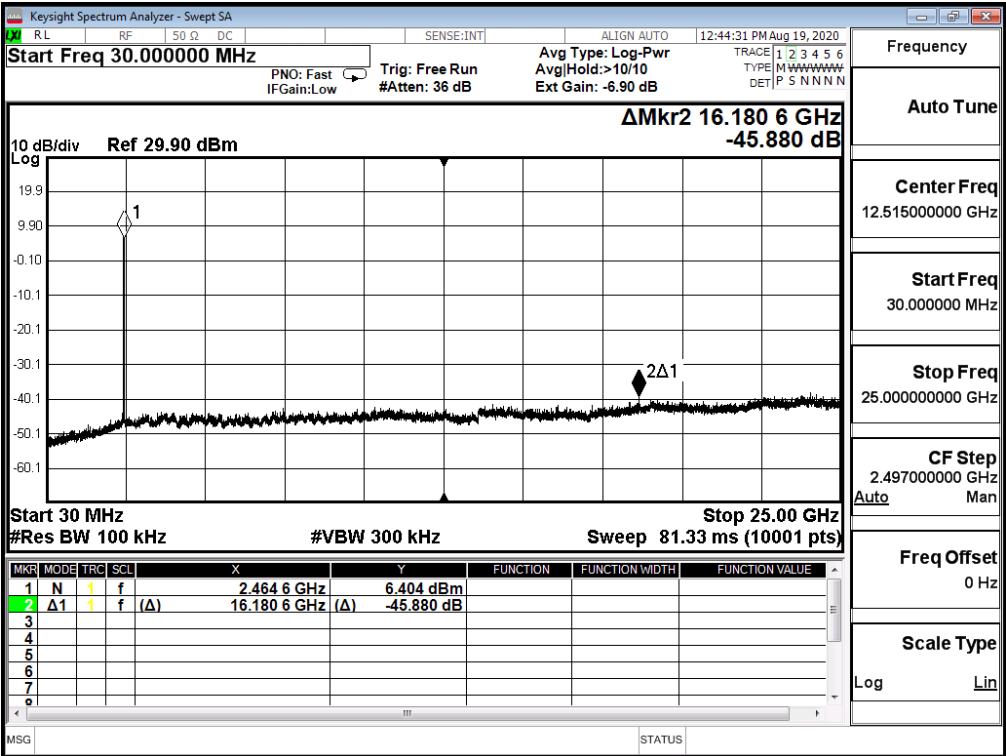
2412MHz (30MHz-25GHz)-11ax(20M)_Ant 2



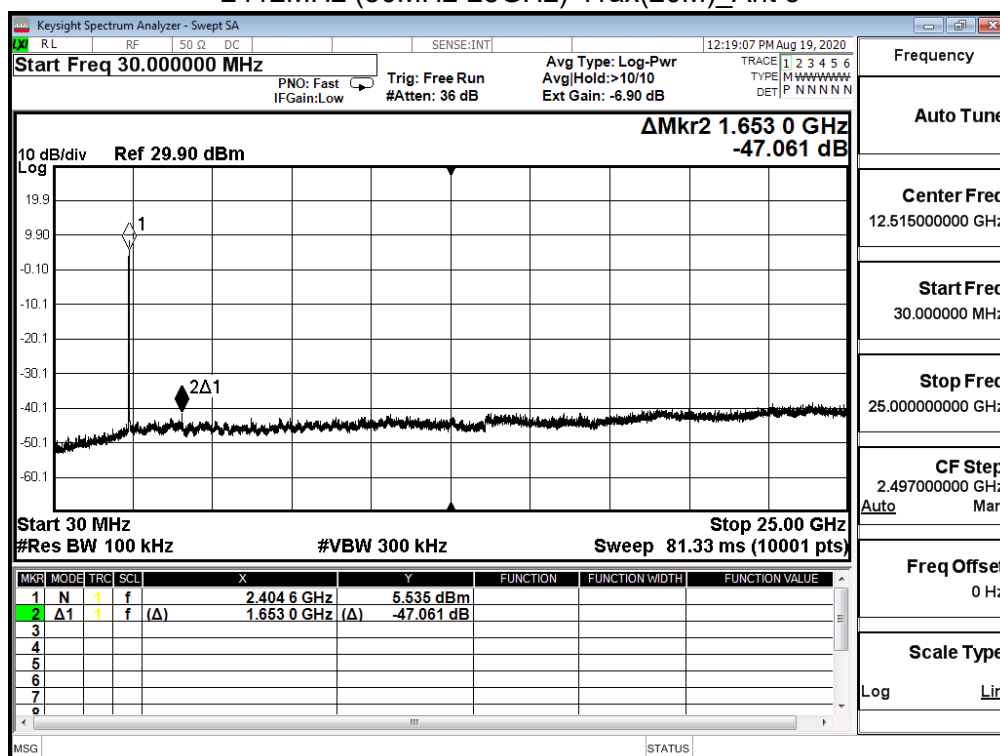
2437MHz (30MHz-25GHz)-11ax(20M)_Ant 2



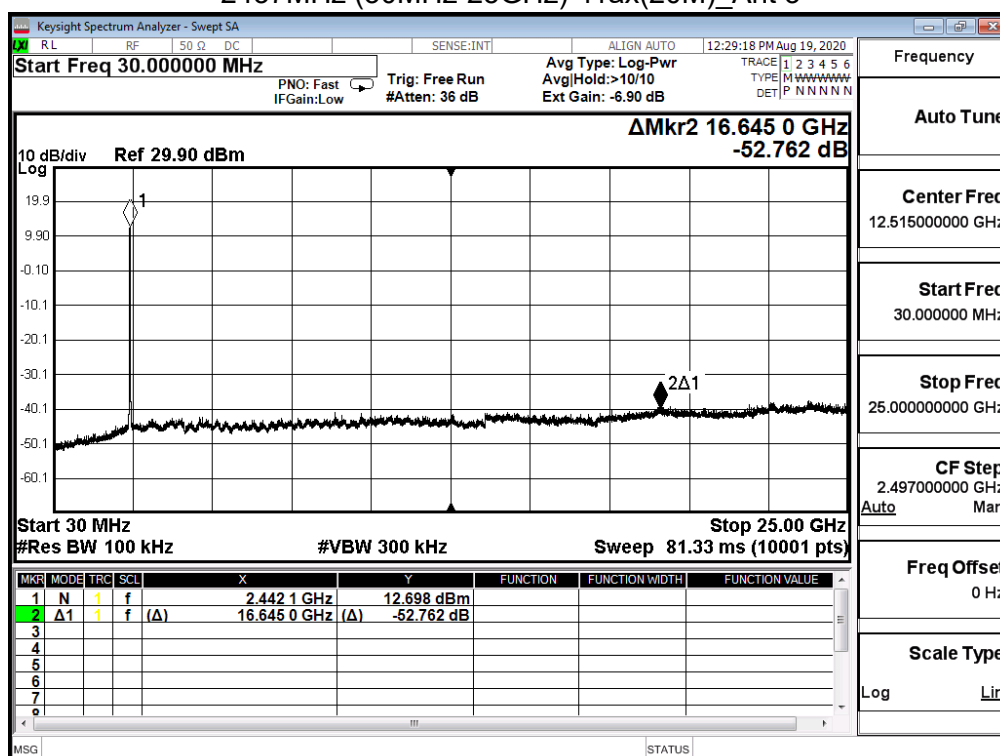
2462MHz (30MHz-25GHz)-11ax(20M)_Ant 2



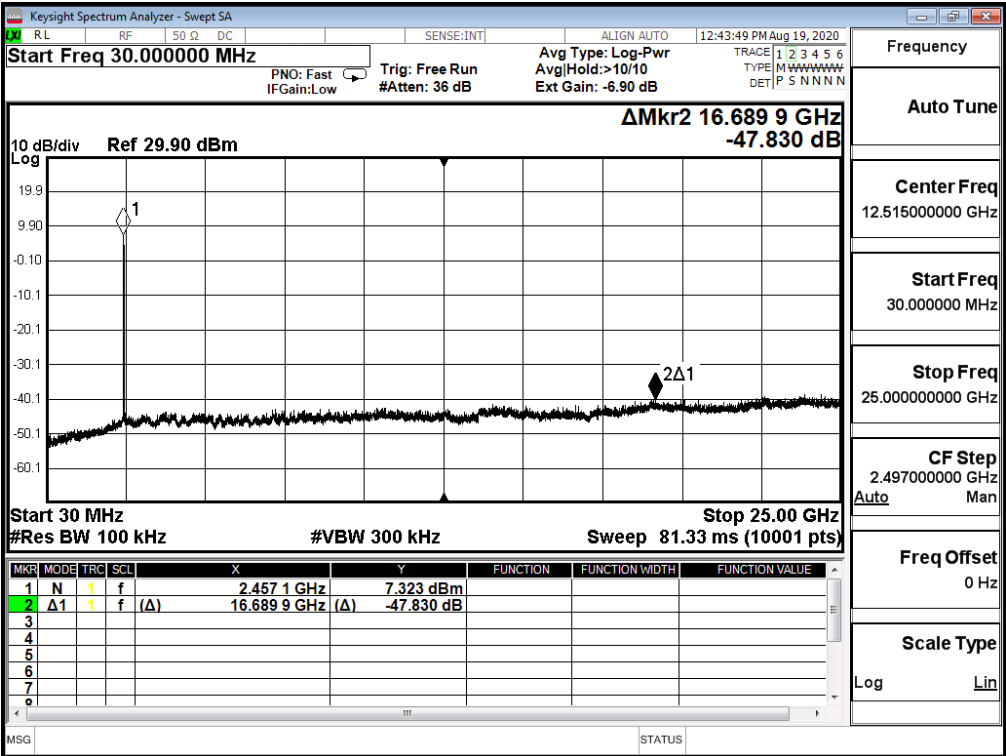
2412MHz (30MHz-25GHz)-11ax(20M)_Ant 3



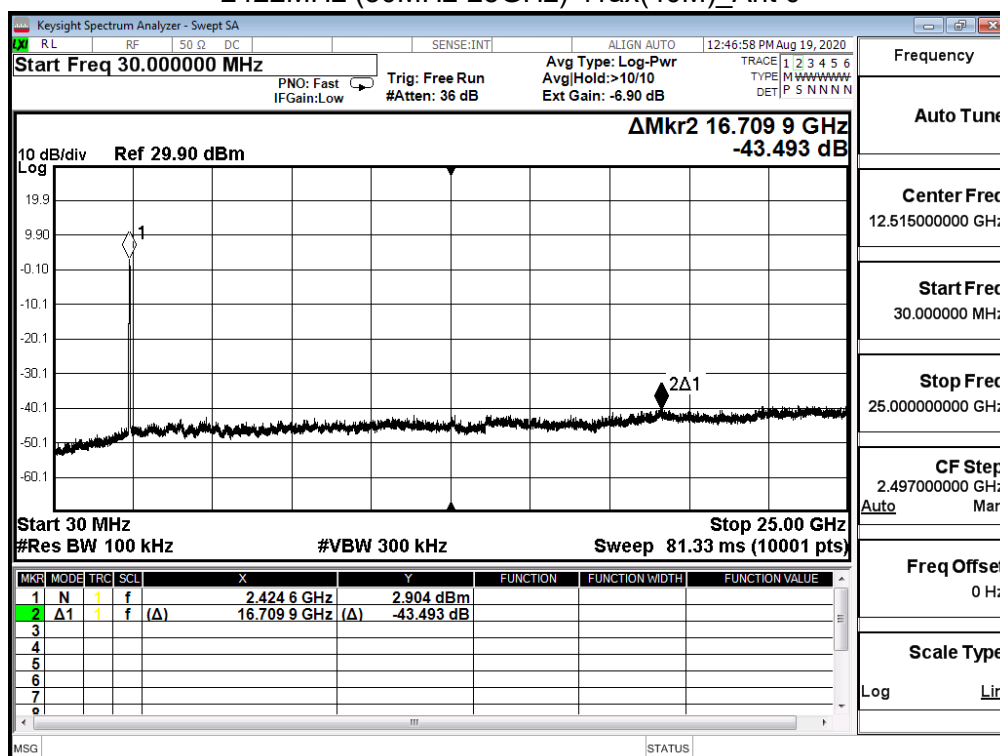
2437MHz (30MHz-25GHz)-11ax(20M)_Ant 3



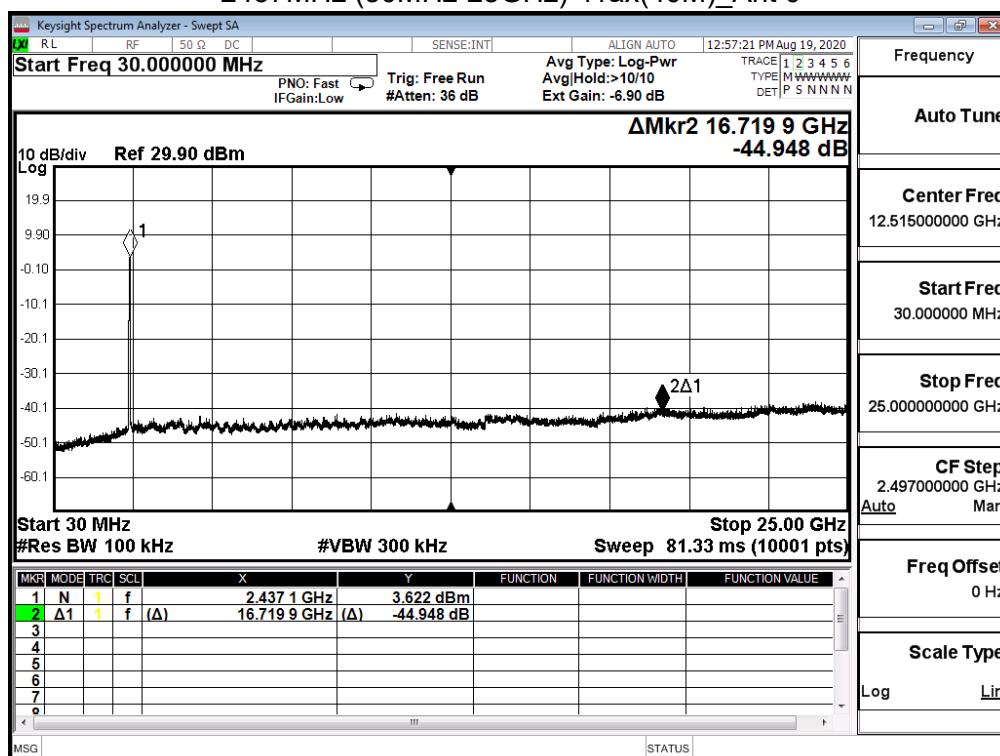
2462MHz (30MHz-25GHz)-11ax(20M)_Ant 3



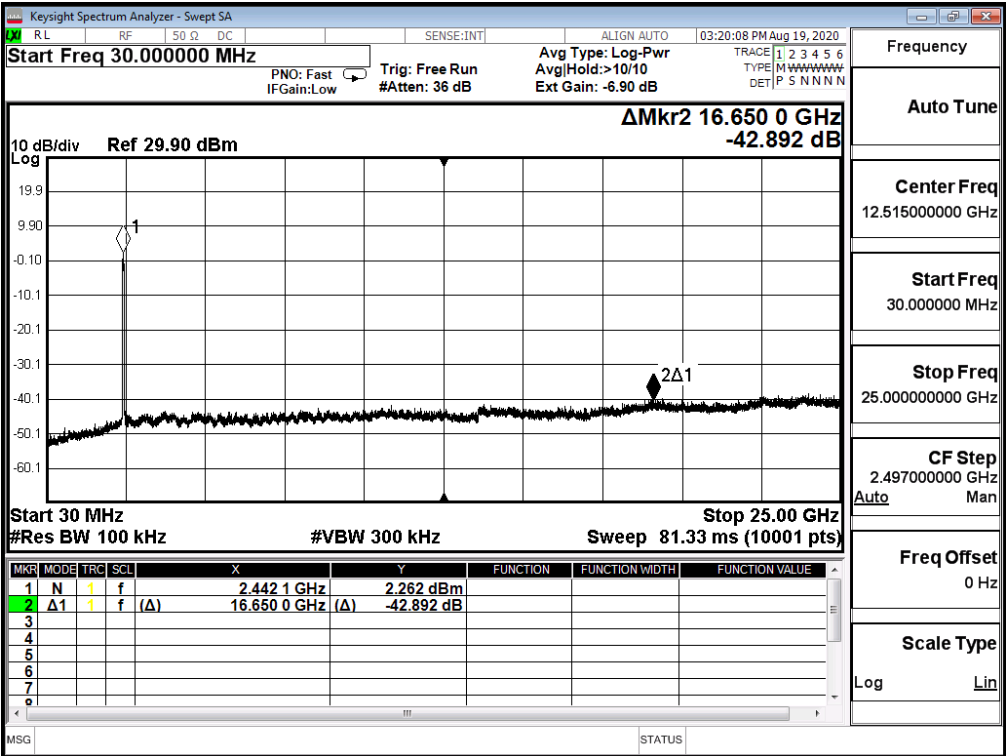
2422MHz (30MHz-25GHz)-11ax(40M)_Ant 0



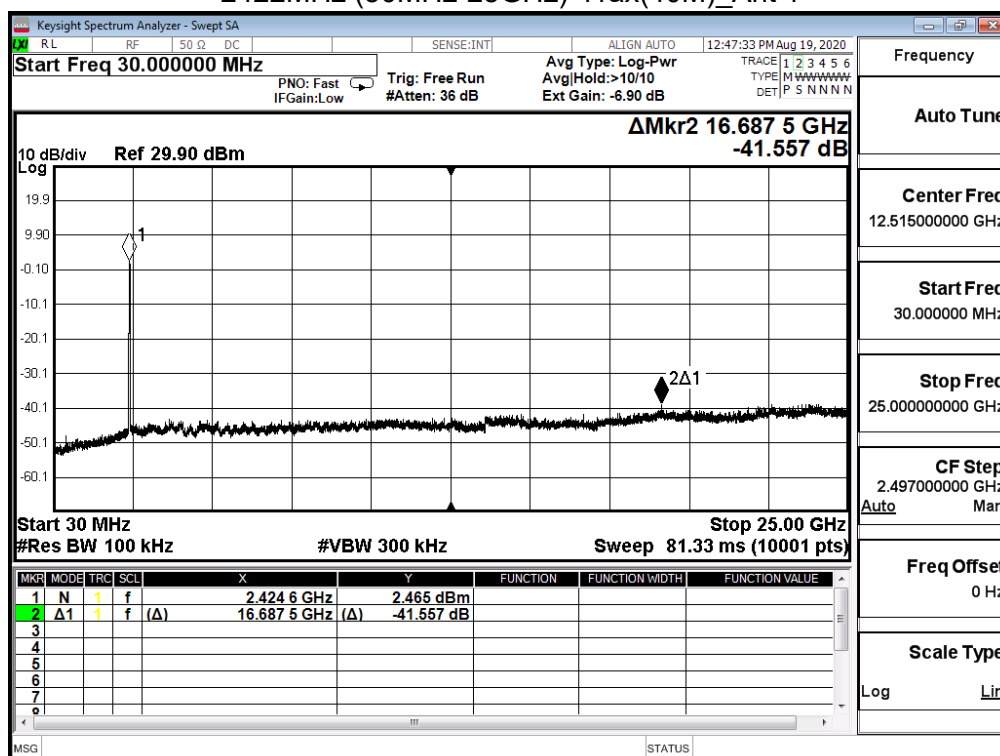
2437MHz (30MHz-25GHz)-11ax(40M)_Ant 0



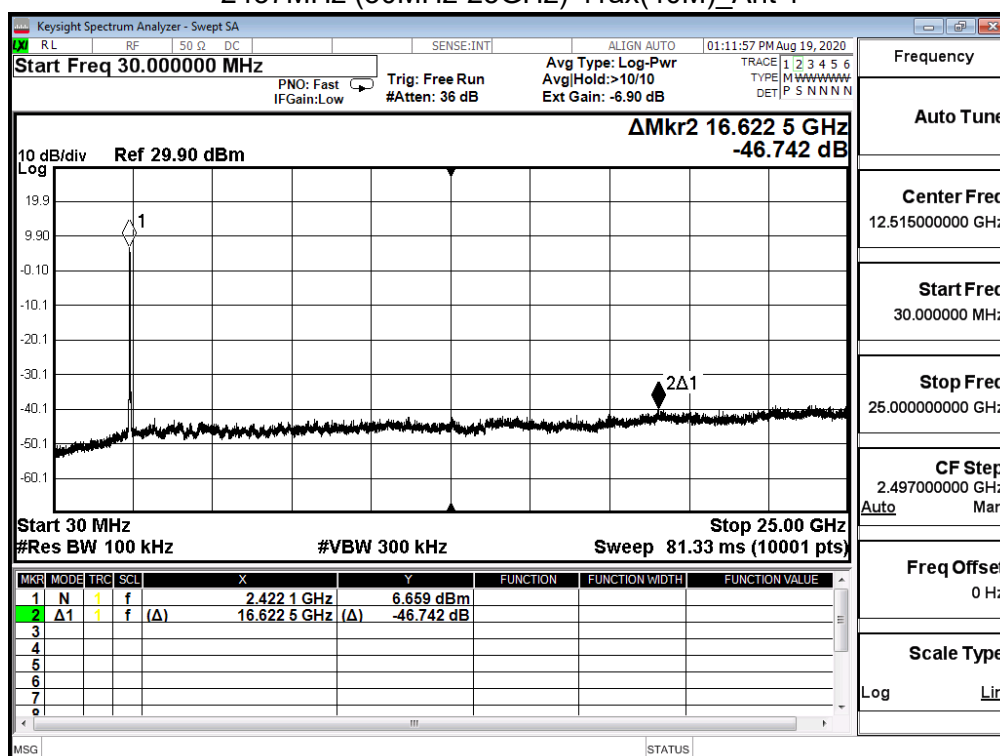
2452MHz (30MHz-25GHz)-11ax(40M)_Ant 0



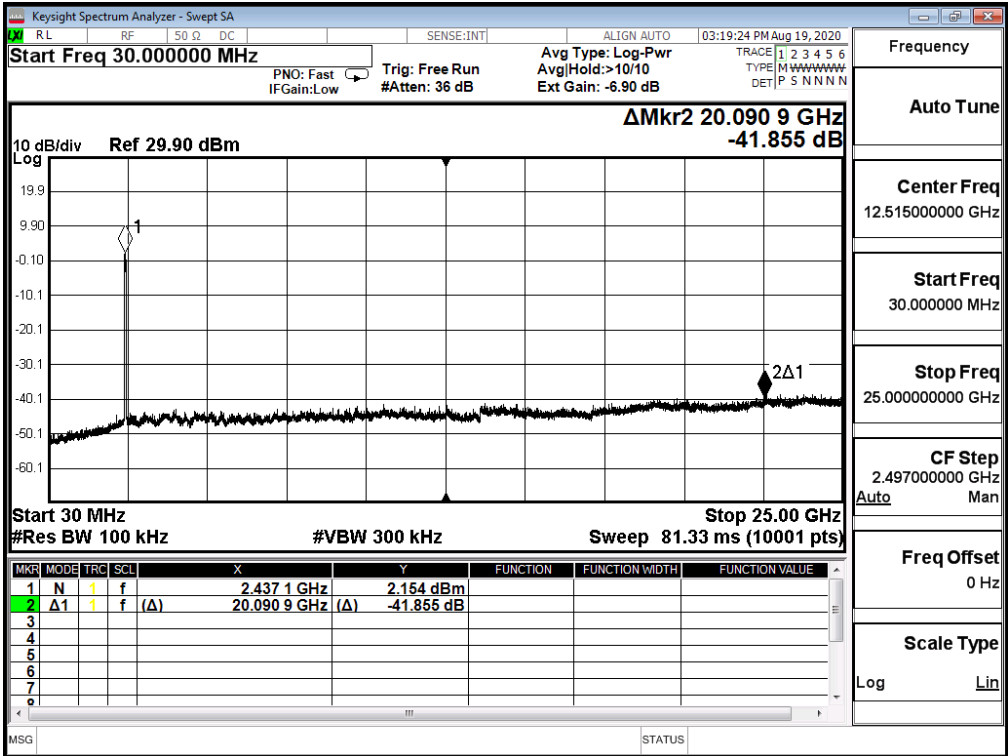
2422MHz (30MHz-25GHz)-11ax(40M)_Ant 1



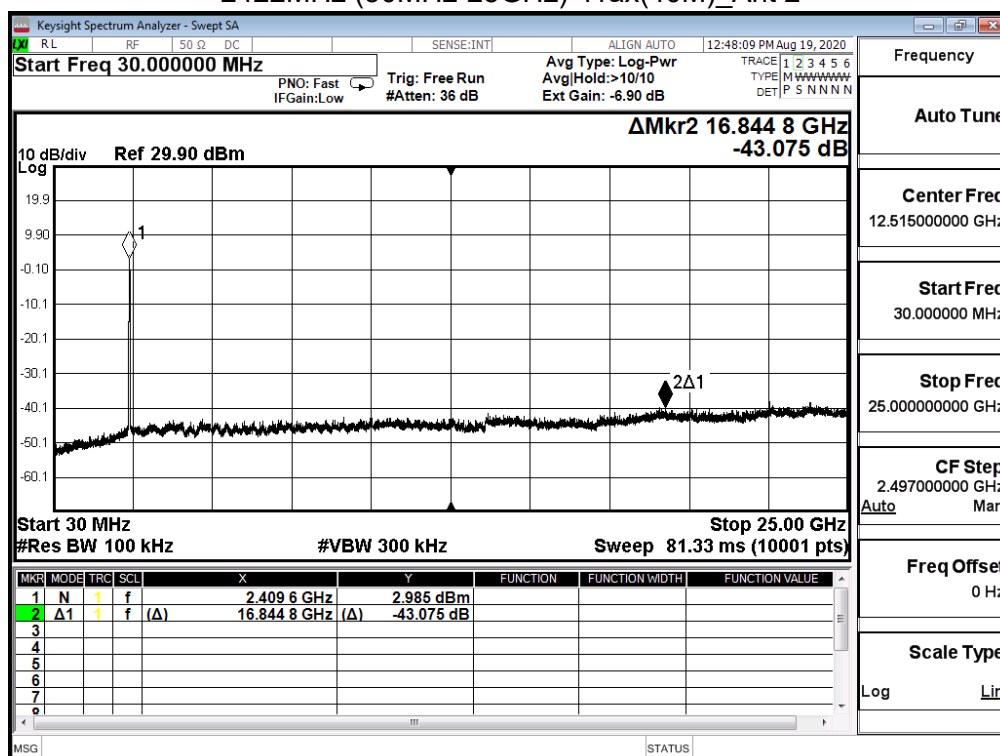
2437MHz (30MHz-25GHz)-11ax(40M)_Ant 1



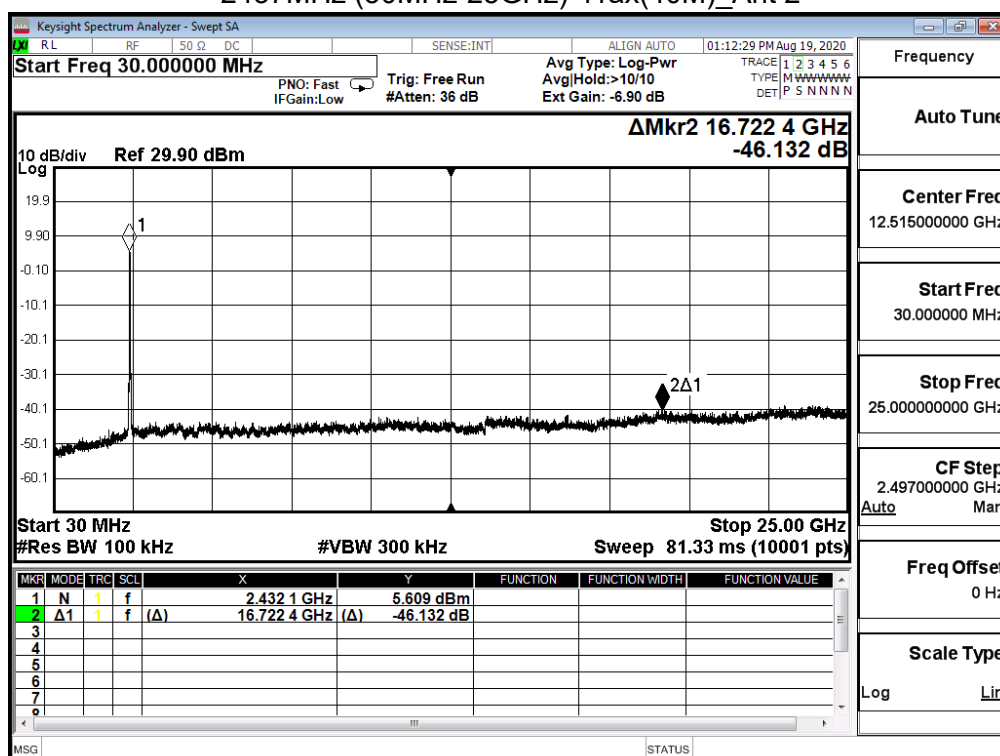
2452MHz (30MHz-25GHz)-11ax(40M)_Ant 1



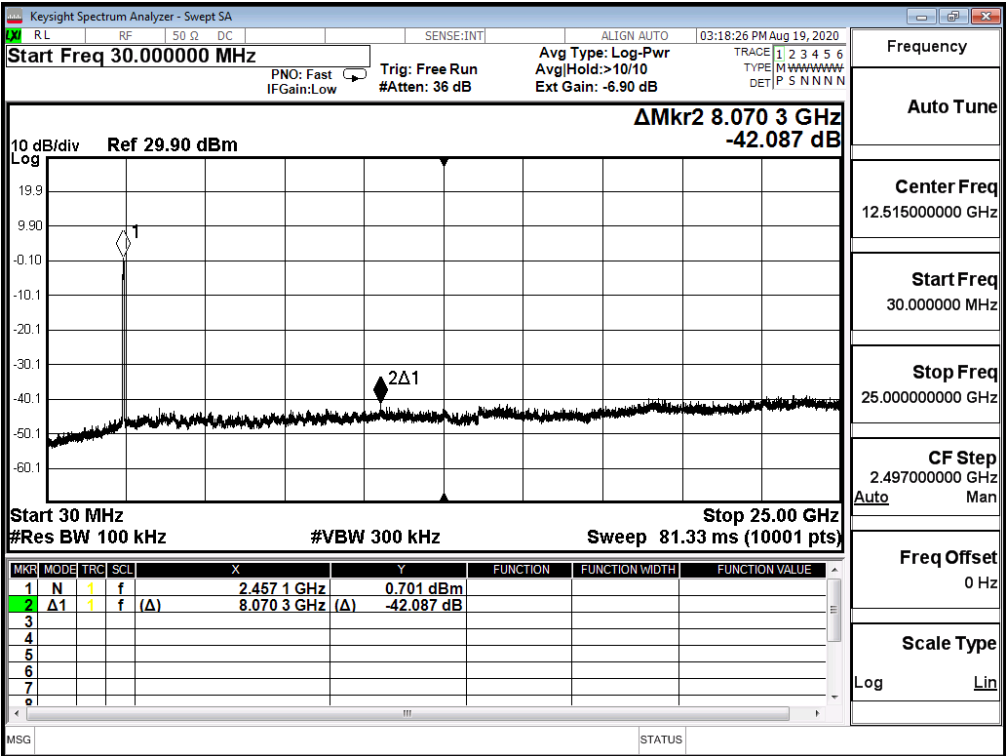
2422MHz (30MHz-25GHz)-11ax(40M)_Ant 2



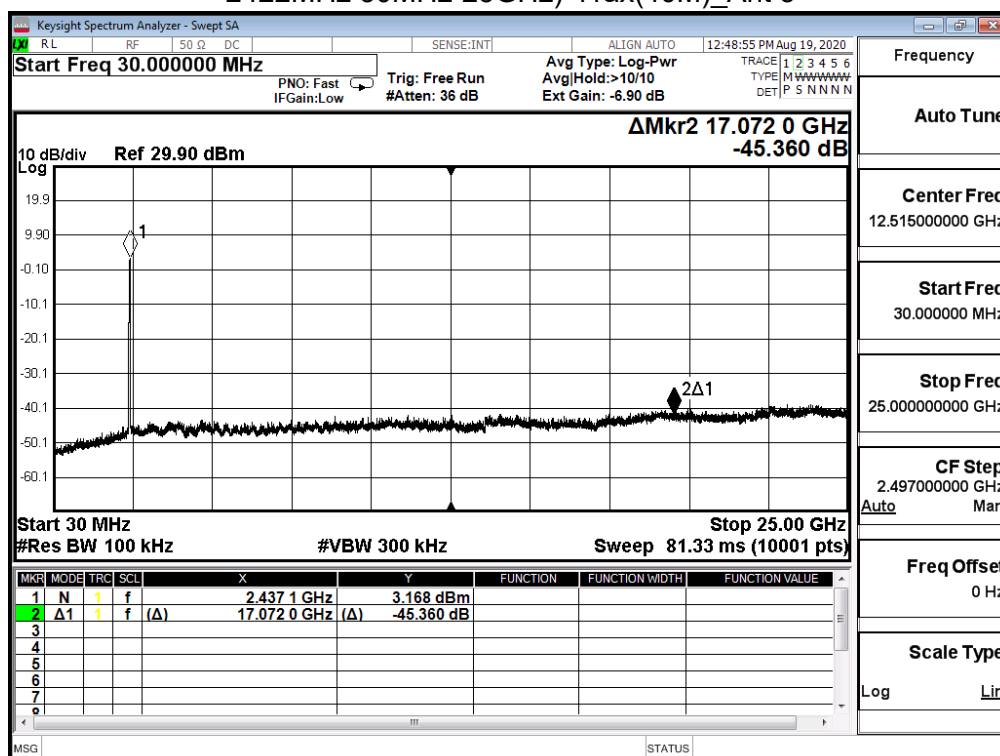
2437MHz (30MHz-25GHz)-11ax(40M)_Ant 2



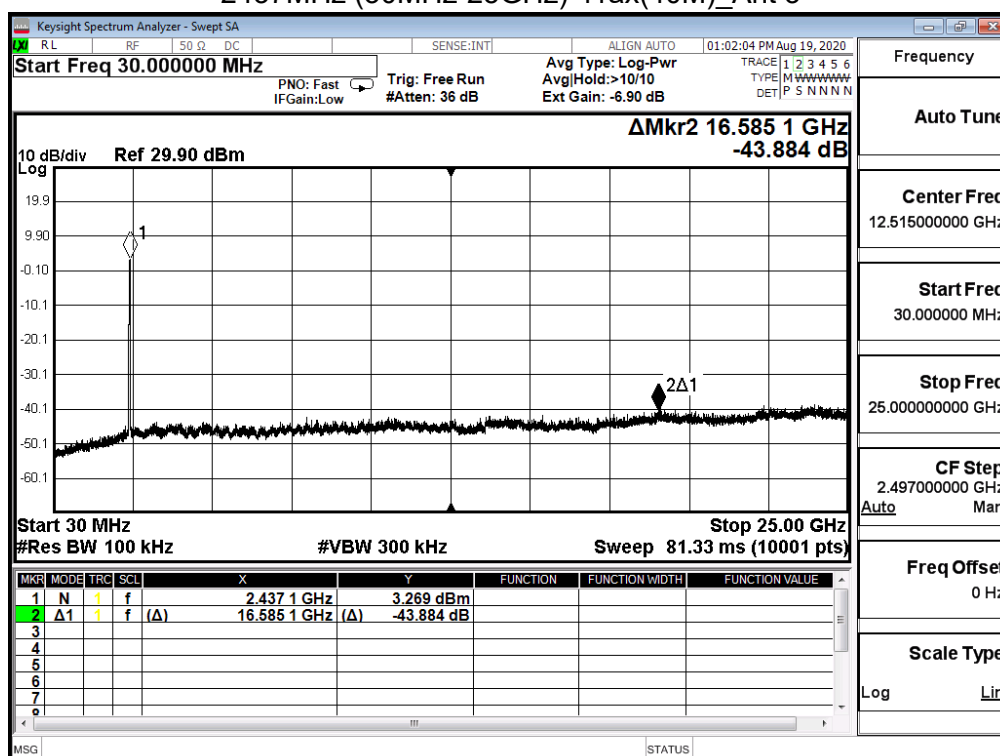
2452MHz (30MHz-25GHz)-11ax(40M)_Ant 2



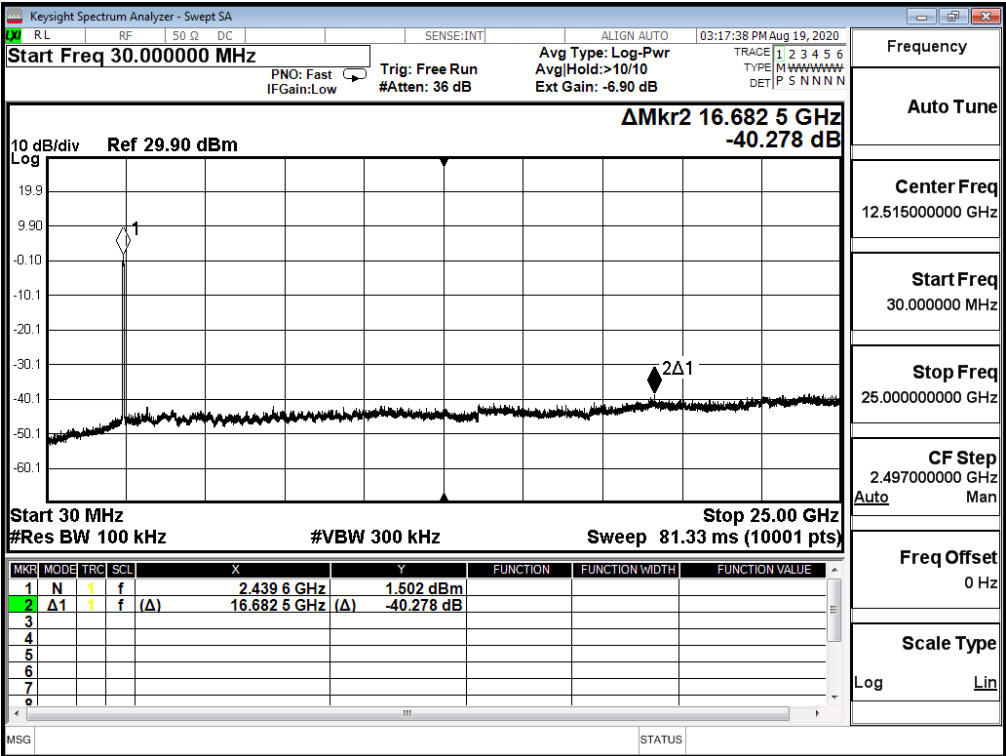
2422MHz 30MHz-25GHz)-11ax(40M)_Ant 3



2437MHz (30MHz-25GHz)-11ax(40M)_Ant 3

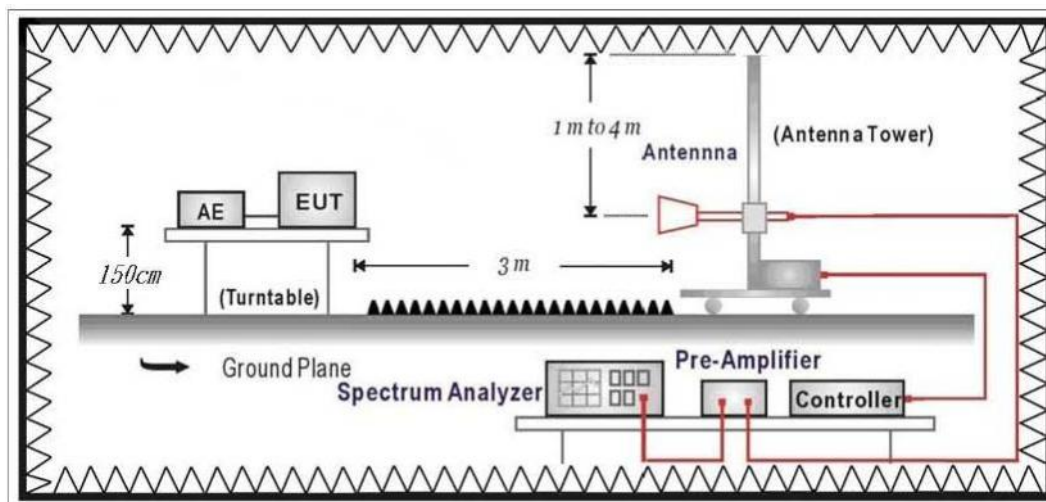


2452MHz (30MHz-25GHz)-11ax(40M)_Ant 3



6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

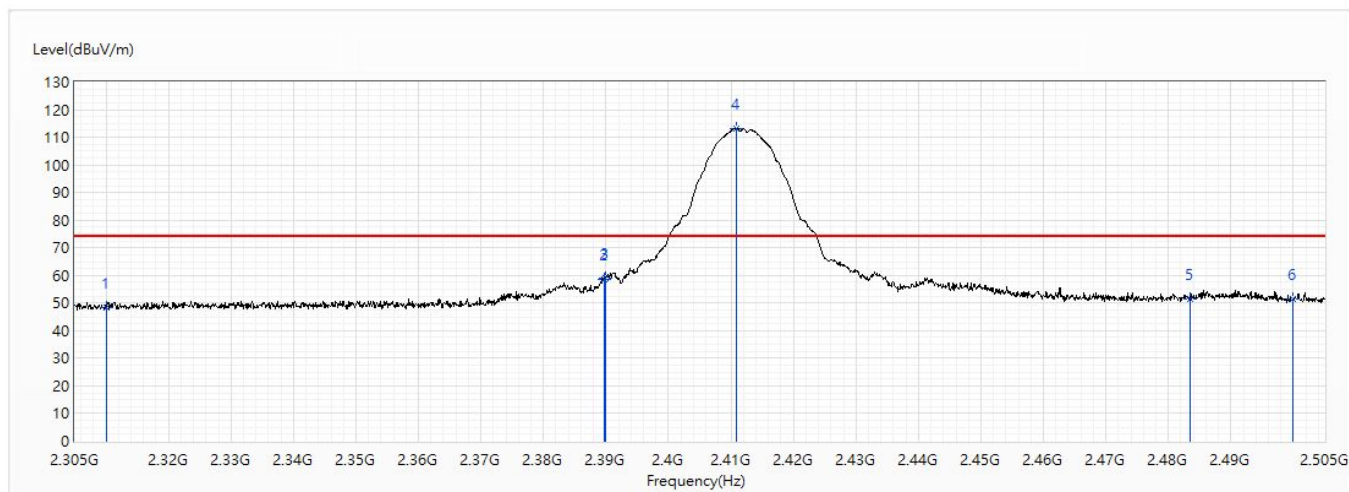
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

6.5. Test Result

Model No	GR140DG	Site	CB4-H
Test Voltage	AC 120V/60Hz	Test Date	2020/8/12
Test Mode	Mode 1: SISO Mode	Engineer	Elwin
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_Ch1_2.412G	Humidity (%RH)	56.0

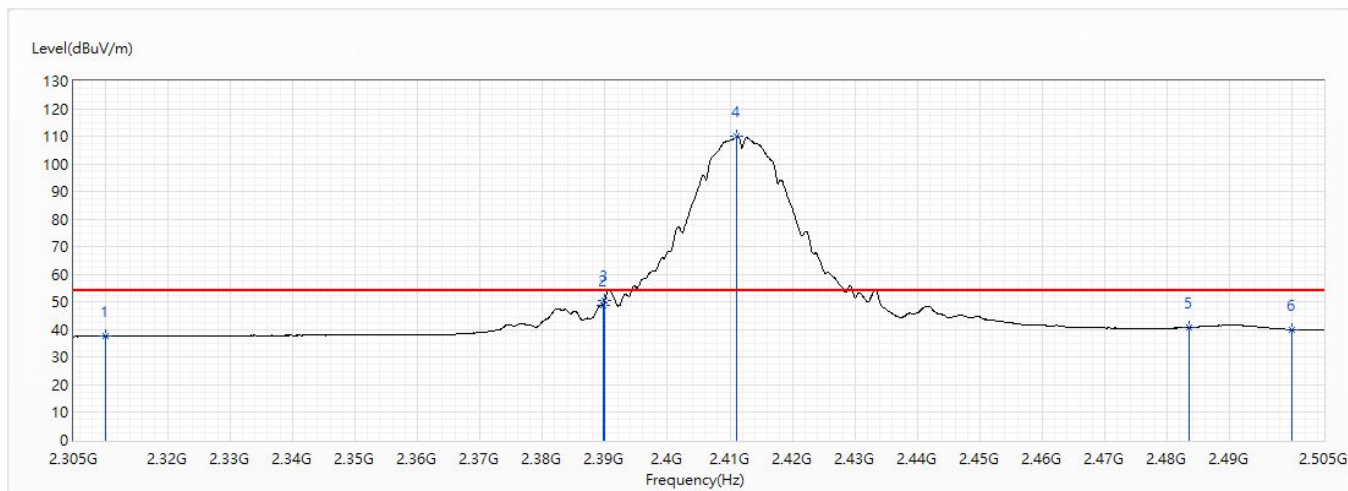


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	48.23	74.00	-25.77	36.61	11.62	PK
2	2389.7	58.57	74.00	-15.43	46.54	12.03	PK
3	2390	59.14	74.00	-14.86	47.11	12.03	PK
! 4	2410.9	113.24	74.00	39.24	101.09	12.15	PK
5	2483.5	51.49	74.00	-22.51	38.98	12.51	PK
6	2500	51.38	74.00	-22.62	38.78	12.60	PK

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.

Model No	GR140DG	Site	CB4-H
Test Voltage	AC 120V/60Hz	Test Date	2020/8/12
Test Mode	Mode 1: SISO Mode	Engineer	Elwin
Polarity	Horizontal	Temperature (°C)	23.5
Test Condition	802.11b_Ch1_2.412G	Humidity (%RH)	56.0



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Detector Type
1	2310	37.61	54.00	-16.39	25.99	11.62	AV
2	2389.7	48.82	54.00	-5.18	36.79	12.03	AV
3	2390	50.55	54.00	-3.45	38.52	12.03	AV
! 4	2411.1	110.08	54.00	56.08	97.93	12.15	AV
5	2483.5	40.82	54.00	-13.18	28.31	12.51	AV
6	2500	40.10	54.00	-13.90	27.50	12.60	AV

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.
4. The fundamental for reference only, it's not restricted by unwanted emission limit.