



**SGS-CSTC Standards
Technical Services
(Shanghai)Co., Ltd.**

FCC ID: RFHWIFI-RT3593-DB

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Report No.: SHEM120300025401
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Cover Page

Test Report

Application No. : SHEM1203000254RF
Applicant: ICP Electronics Inc.
FCC ID: RFHWIFI-RT3593-DB
Fundamental Frequency : 2400~2483.5MHz, 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.850GHz
Equipment Under Test (EUT):
Trade Mark: 
Name: WIRELESS LAN MODULE
Model No.: WIFI-RT3593-DB
Standards: FCC PART 15 SUBPART C, Section 15.247
Date of Receipt: Mar. 12, 2012
Date of Test: Mar. 14, 2012 to Apr. 22, 2012
Date of Issue: Apr. 28, 2012
Test Result : **PASS ***

* In the configuration tested, the EUT complied with the standards specified above.

Jim Xu
E&E Section Head
SGS-CSTC(Shanghai) Co., Ltd.

Neil Zhang
E&E Project Engineer
SGS-CSTC(Shanghai) Co., Ltd.

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1 Test Summary

TEST ITEM	FCC REFERANCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	Pass
Maximum peak output power	15.247(b)	Pass
Power spectrum density	15.247(e)	Pass
Radiated emission	15.205 & 15.209	Pass
Emission outside the Frequency band	15.247(d)	Pass
Power line conducted emission	15.207	Pass
Channel number of hopping system	15.247(a)(1)(iii)	NA
Average time of occupancy in any channel	15.247(a)(1)(iii)	NA
Antenna Requirement	15.203	Compliance

NOTE:

1. The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 2400 ~ 2483.5MHz and 5.725~5.850GHz. For the 5.15~5.35GHz and 5.47~5.725GHz RF parameters was recorded in the SHEM120300025402 test report.
2. N/A: Not applicable



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3 General Information	
3.1 Client Information	
Applicant :	ICP Electronics Inc.
Applicant Address:	3F., No.22, Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan, R.O.C
Manufacturer:	Armorlink SH Corp.
Address of Manufacturer:	515.Shenfu Rd,Xinzhuang Industrial Development Zone,Minhang District,Shanghai,P.R.China
3.2 Details of E.U.T.	
Trade Mark:	
Name:	WIRELESS LAN MODULE
Model No.:	WIFI-RT3593-DB
Power Supply:	3.3V DC
Hardware Version:	N/A
Software Version:	N/A
Operating Frequency :	For 15.407 802.11a & 802.11n: 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz,5.50 ~ 5.70GHz
	For 15.247 802.11b & 802.11g & 802.11n: 2.412 ~ 2.462GHz 802.11a & 802.11n: 5.745 ~ 5.825GHz
Number of Channel :	For 15.407 19 for 802.11a, 802.11n (20MHz) 9 for 802.11n (40MHz)
	For 15.247(2.4GHz) 11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz)
	For 15.247(5GHz) 5 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)
Modulation Type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology:	DSSS, OFDM

Antenna Information:

Antenna Delivery: 3T3R

Antenna Configuration:



Antenna List:

There are two sets of antennas provided to this EUT, please refer to the following table:

Set 1:

Chains	Antenna Type	Manufacturer	Model No.	Antenna Gain (2.0 dBi)
Chain 100	Dipole	Exceltek Electronics (kunshan) Co., Ltd	C0255-ANG0018	<input checked="" type="checkbox"/> For 2.4GHz <input checked="" type="checkbox"/> For 5GHz:
Chain 010	Dipole		C0255-ANG0018	<input checked="" type="checkbox"/> For 2.4GHz: <input checked="" type="checkbox"/> For 5GHz:
Chain 001	Dipole		C0255-ANG0018	<input checked="" type="checkbox"/> For 2.4GHz: <input checked="" type="checkbox"/> For 5GHz:

Set 2:

Chains	Antenna Type	Manufacturer	Model No.	Antenna Gain (2.0 dBi)
Chain 100	PCB	Exceltek Electronics (kunshan) Co., Ltd	C0255-ANG0016	<input checked="" type="checkbox"/> For 2.4GHz: <input checked="" type="checkbox"/> For 5GHz:
Chain 010	PCB		C0255-ANG0020	<input checked="" type="checkbox"/> For 2.4GHz: <input checked="" type="checkbox"/> For 5GHz:
Chain 001	PCB		C0255-ANG0021	<input checked="" type="checkbox"/> For 2.4GHz: <input checked="" type="checkbox"/> For 5GHz:

The PIFA antenna was pre-tested under the following test modes for three different axes placements:

Test Mode	Description
Mode A	X-Z plane
Mode B	X-Y plane
Mode C	Y-Z plane



From the above modes, the radiated emission worst case was found in Mode C.

Therefore only the test data of the mode was recorded in this report.

Antenna Combination Mode:

Operation Mode	Chain(100)	Chain(010)	Chain(001)	Chain(111)*
802.11b	☒	☒	☒	☐
802.11g	☒	☒	☒	☐
802.11n(20MHz)	☒	☒	☒	☒
802.11n(40MHz)	☒	☒	☒	☒
802.11a	☒	☒	☒	☒

NOTE 1: * means transmitting simultaneously via these chains (Chain(100), Chain(010), Chain(001)).
NOTE 2: The above information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

Operation Frequency Each of Channel:

For 802.11b/g/n(20MHz), Operated in 2400 ~ 2483.5MHz band:

CHANNEL	FREQUENCY(MHz)	CHANNEL	FREQUENCY(MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	N/A	N/A

For 802.11n(40MHz) , Operated in 2400 ~ 2483.5MHz band:

CHANNEL	FREQUENCY(MHz)	CHANNEL	FREQUENCY(MHz)
1	2422	5	2442
2	2427	6	2447
3	2432	7	2452
4	2437	N/A	N/A

Operated in 5725 ~ 5850MHz band:

Five channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY(MHz)	CHANNEL	FREQUENCY(MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	N/A	N/A

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Two channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY(MHz)	CHANNEL	FREQUENCY(MHz)
151	5755	159	5795

3.3 Description of Support Units

Name	Model No.	Remark
17" LCD	Lenovo 9227-AE1	N/A
Mouse	Lenovo M-UAE119	N/A
Mini ATX Board	N/A	N/A

4 Test Location

Tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5655

No tests were sub-contracted.

5 Other Information Requested by the Customer

None.

6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.



7 Test Results

7.1 Test Instruments

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2011-6-3	2012-6-1
2	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2011-6-3	2012-6-1
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2011-3-12	2012-3-10
4	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2011-6-3	2012-6-1
5	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2011-10-7	2012-10-5
6	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY—2009P	--	2011-10-15	2012-10-13
7	CLAMP METER	FLUKE	316	86080010	2011-04-22	2012-04-20
8	Thermo-Hygrometer	ZHICHEN	ZC1-2	01050033	2011-10-14	2012-10-13
9	High-low temperature cabinet	Shanghai YuanZhen	GW2050	--	2011-6-17	2012-6-16
11	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT1800.0/ 2000.0-0.2/40- 5SSK	11	2011-10-26	2012-10-25
12	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/88 0.0-0.2/40-5SSK	9	2011-10-26	2012-10-25
13	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	2011-04-08	2012-04-07
14	Low noise amplifier	TESEQ	LNA6900	70133	2011-07-05	2012-07-04
15	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2011-06-04	2012-06-03
16	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2011-05-07	2012-05-06



7.2 E.U.T. Operation

Input voltage: 120V for the adapter of mainboard

Operating Environment:

Temperature: 24.0 °C

Humidity: 50 % RH

Atmospheric Pressure: 1010 mbar

EUT Operation: The EUT has been tested under operating condition.

Test program was used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode:Channel low (2412MHz) mid(2437MHz) high(2462MHz) with the worst case 1Mbps data rate was report for conductive test and radiated spurious emission test.

802.11 g mode:Channel low (2412MHz) mid(2437MHz) high(2462MHz) with the worst case 6Mbps data rate was report for conductive test and radiated spurious emission test.

802.11 n (20MHz) mode:Channel low (2412MHz) mid(2437MHz) high(2462MHz) with the worst case 6.5Mbps data rate was report for conductive test and radiated spurious emission test.

802.11 n (40MHz BW) 2.4G mode:Channel low (2422MHz) mid(2437MHz) high(2452MHz) with the worst case 6.5Mbps data rate was report for conductive test and radiated spurious emission test.

802.11 a/n(20MHz) 5G mode:Channel low (5745MHz) mid(5785MHz) high(5825MHz) with the worst case 6.5Mbps data rate was report for conductive test and radiated spurious emission test.

802.11 n(40MHz) 5G mode:Channel low (5755MHz) high(5795MHz) with the worst case 6.5Mbps data rate was report for conductive test and radiated spurious emission test.

7.3 Test Procedure & Measurement Data



7.3.1 Conducted Emission Test

Test Requirement: FCC Part15 15.207
Test date: April 16,2012
Standard Applicable According to section 15.207,frequency 150KHz to 30MHz shall not not exceed the limit table as blew.

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

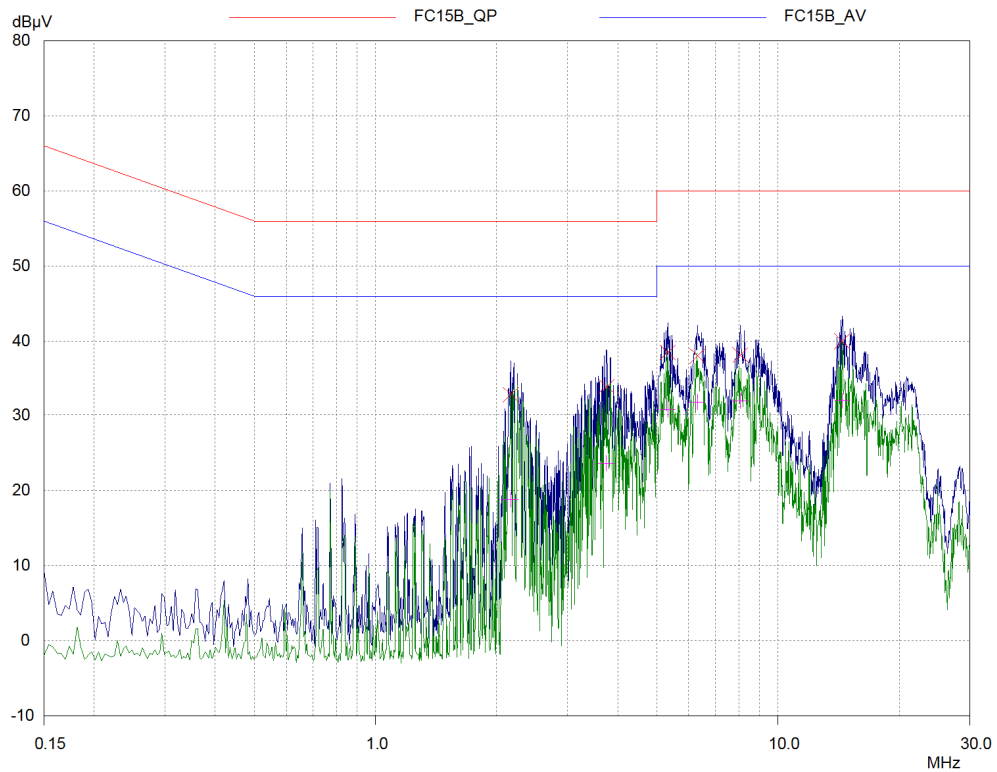
EUT Setup

- 1.The conducted emission tests were performed in the test site,using the setup in accordance with the ANSI C C63.10-2009.
- 2.EUT is charged with AC/DC power adapter.The AC/DC Power adapter was plug-in LISN.The rear of the EUT and periphearals were placed flushed with the rear of the tabletop.
- 3.The LISN was connected with 120V AC/60Hz power source.

Measurement Result Operation mode:WiFi Mode 802.11n (40MHz BW) 6.5Mbps Rate
 Note:All test modes have been tested and record the worst case.



L line:



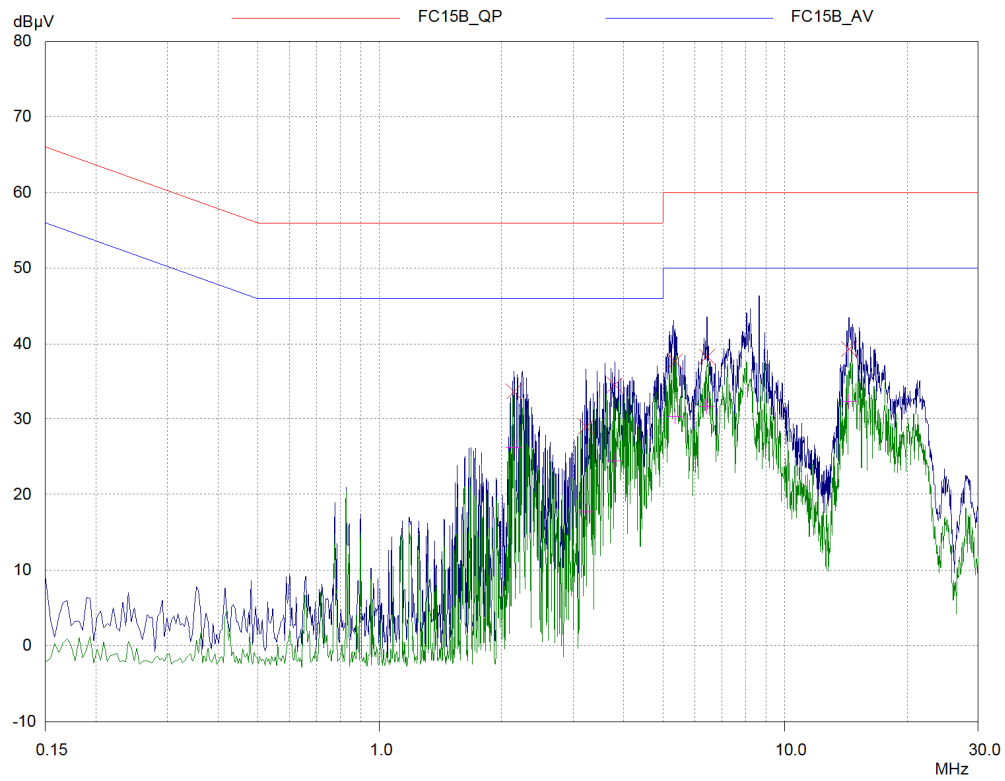
Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.16562	32.80	56.00	23.20
3.74765	33.93	56.00	22.07
5.31796	38.51	60.00	21.49
6.30625	38.01	60.00	21.99
8.06795	38.20	60.00	21.80
14.45078	39.99	60.00	20.01

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
2.16562	18.71	46.00	27.29
3.74765	23.60	46.00	22.40
5.31796	30.76	50.00	19.24
6.30625	31.74	50.00	18.26
8.06795	31.91	50.00	18.09
14.45078	31.97	50.00	18.03



N Line:



Final Measurement Results

Frequency MHz	QP Level dBµV	QP Limit dBµV	QP Delta dB
2.14218	33.68	56.00	22.32
3.22812	28.93	56.00	27.07
3.79843	34.59	56.00	21.41
5.34531	37.71	60.00	22.29
6.41171	38.31	60.00	21.69
14.38437	39.33	60.00	20.67

Frequency MHz	AV Level dBµV	AV Limit dBµV	AV Delta dB
2.14218	26.20	46.00	19.80
3.22812	17.68	46.00	28.32
3.79843	24.39	46.00	21.61
5.34531	30.30	50.00	19.70
6.41171	31.58	50.00	18.42
14.38437	32.31	50.00	17.69



7.3.2 Peak Output Power Measurement

Test Requirement:	FCC Part 15 15.247(a)(2),(b)
Test date	April 2,2012
Standard Applicable:	According to section 15.247(a)(2),(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Measuremet Produre	<ol style="list-style-type: none">1. Place the EUT on the table and set it in transmitting mode.2. Remove the antenna from the EUT and then connect a low loss RF calbe from the antenna port to the spectrum.3. Set the occur band to the entire emission bandwidth of the signal.4. Record the max.channel power reading5. Repeat above procedures until all the frequency measured were complete.



Measurement Result:

The test was performed with 802.11b, the data was shown the worst case 802.11b 1Mbps.

(Chain 100)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	14.77	1.50	16.27	30	PASS
06	2437	15.96		17.46	30	PASS
11	2462	16.14		17.64	30	PASS

(Chain 010)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	16.62	1.50	18.12	30	PASS
06	2437	14.41		15.91	30	PASS
11	2462	14.85		16.35	30	PASS

(Chain 001)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	14.74	1.50	16.24	30	PASS
06	2437	14.60		16.10	30	PASS
11	2462	14.76		16.26	30	PASS

The test was performed with 802.11g, the data was shown the worst case 802.11g 6Mbps.

(Chain 100)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	17.32	1.50	18.82	30	PASS
06	2437	17.39		18.89	30	PASS
11	2462	17.59		19.09	30	PASS

(Chain 010)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	16.48	1.50	17.98	30	PASS
06	2437	16.53		18.03	30	PASS
11	2462	12.80		14.30	30	PASS



(Chain 001)

CH	Frequency (MHz)	Reading Peak Power(dBm)	Cable Loss (dB)	Output Peak Power (dBm)	Limit (dBm)	Result
01	2412	16.73	1.50	18.23	30	PASS
06	2437	16.37		17.87	30	PASS
11	2462	16.68		18.18	30	PASS

The test was performed with 802.11n(20MHz BW), the data was shown the worst case 802.11n 6.5Mbps(2.4G Band).

CH	Frequency (MHz)	Reading Peak Power(dBm)			Cable Loss (dB) 30	Output Peak Power (dBm)	Limit (dBm)	Result
		Chain(100)	Chain(010)	Chain(001)				
01	2412	15.99	16.56	17.48	1.50	22.99	30	PASS
06	2437	18.58	16.49	16.84		23.67	30	PASS
11	2462	18.46	16.34	17.22		23.70	30	PASS

The test was performed with 802.11n(40MHz BW), the data was shown the worst case 802.11n 6.5Mbps(2.4G Band).

CH	Frequency (MHz)	Reading Peak Power(dBm)			Cable Loss (dB) 30	Output Peak Power (dBm)	Limit (dBm)	Result
		Chain(100)	Chain(010)	Chain(001)				
01	2422	18.27	16.97	16.38	1.50	23.55	30	PASS
04	2437	17.77	16.39	16.68		23.26	30	PASS
07	2452	18.04	21.59	19.22		26.15	30	PASS

The test was performed with 802.11a, the data was shown the worst case 802.11a 6.5Mbps.

CH	Frequency (MHz)	Reading Peak Power(dBm)			Cable Loss (dB) 30	Output Peak Power (dBm)	Limit (dBm)	Result
		Chain(100)	Chain(010)	Chain(001)				
149	5745	15.49	15.31	12.85	1.50	20.98	30	PASS
157	5785	14.25	14.45	12.29		20.04	30	PASS
165	5825	12.91	13.31	10.91		18.77	30	PASS

The test was performed with 802.11n(20MHz BW), the data was shown the worst case 802.11n 6.5Mbps(5G Band).

CH	Frequency (MHz)	Reading Peak Power(dBm)			Cable Loss (dB) 30	Output Peak Power (dBm)	Limit (dBm)	Result
		Chain(100)	Chain(010)	Chain(001)				
149	5745	13.68	15.19	15.00	1.50	20.94	30	PASS
157	5785	14.62	14.79	14.37		20.87	30	PASS
165	5825	12.98	13.58	12.70		19.37	30	PASS

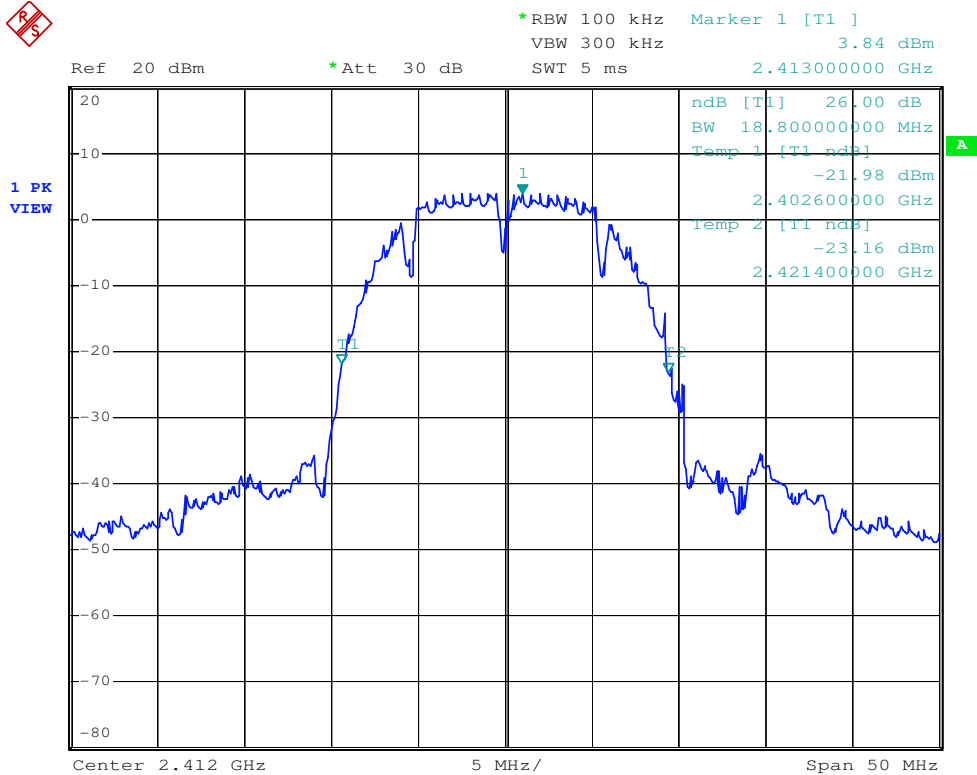


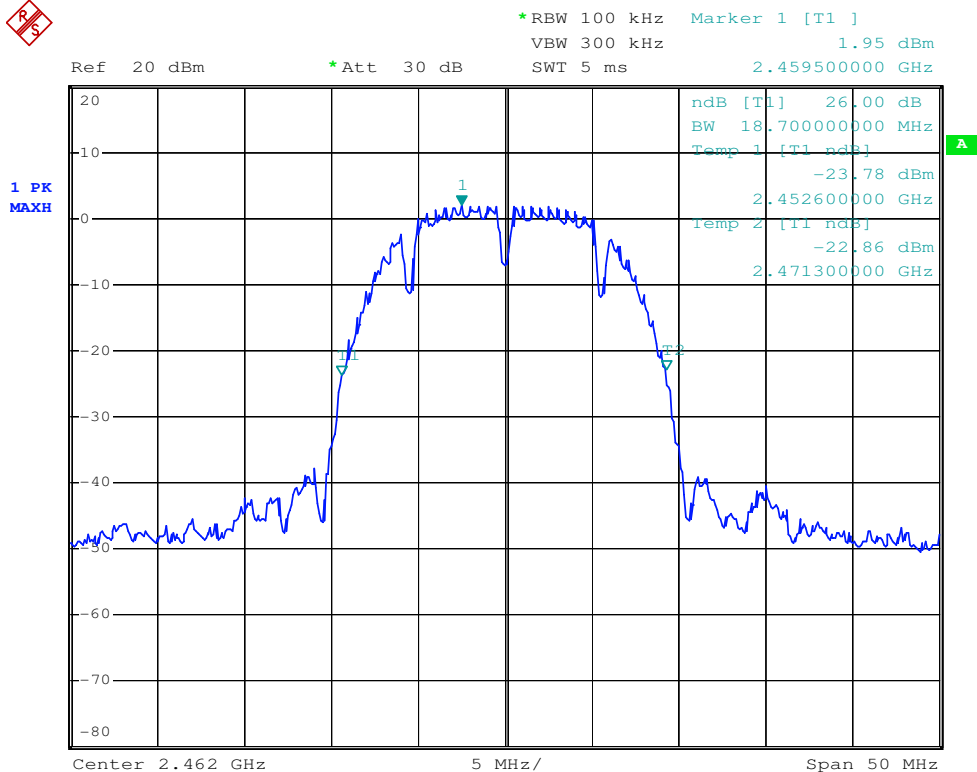
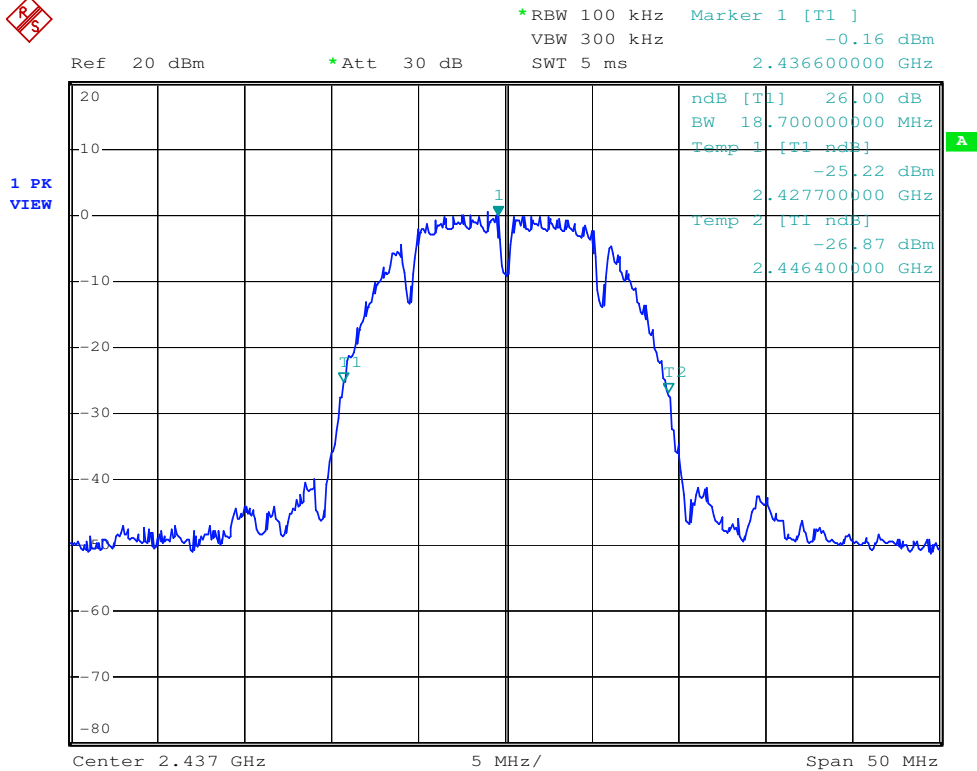
The test was performed with 802.11n(40MHz BW), the data was shown the worst case 802.11n 6.5Mbps(5G Band).

CH	Frequency (MHz)	Reading Peak Power(dBm)			Cable Loss (dB) 30	Output Peak Power (dBm)	Limit (dBm)	Result
		Chain(100)	Chain(010)	Chain(001)				
151	5755	13.21	14.37	14.45	1.50	20.32	30	PASS
159	5795	13.13	13.35	13.42		19.57	30	PASS

Peak Power Output Data Plot 802.11b 1Mbps (Chain 100)

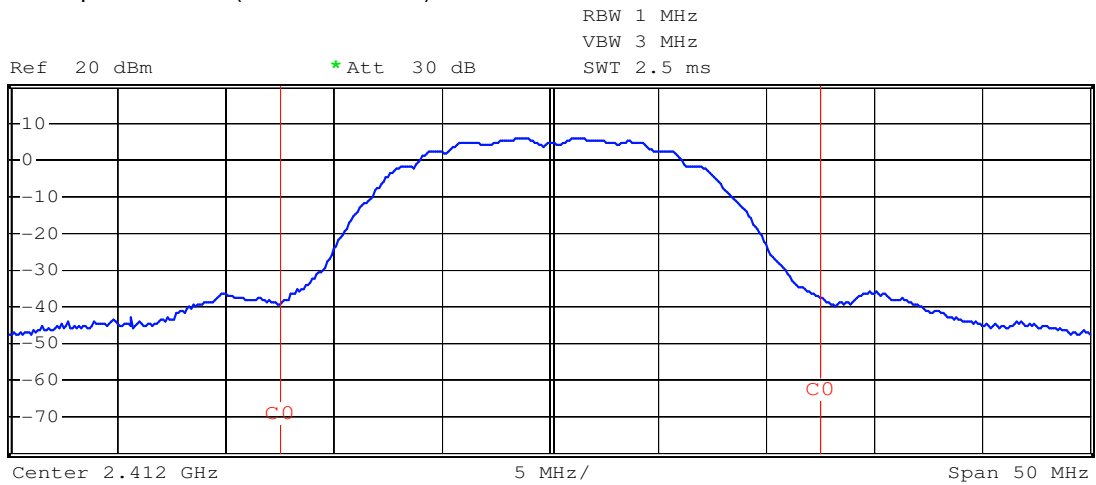
26dB Bandwidth





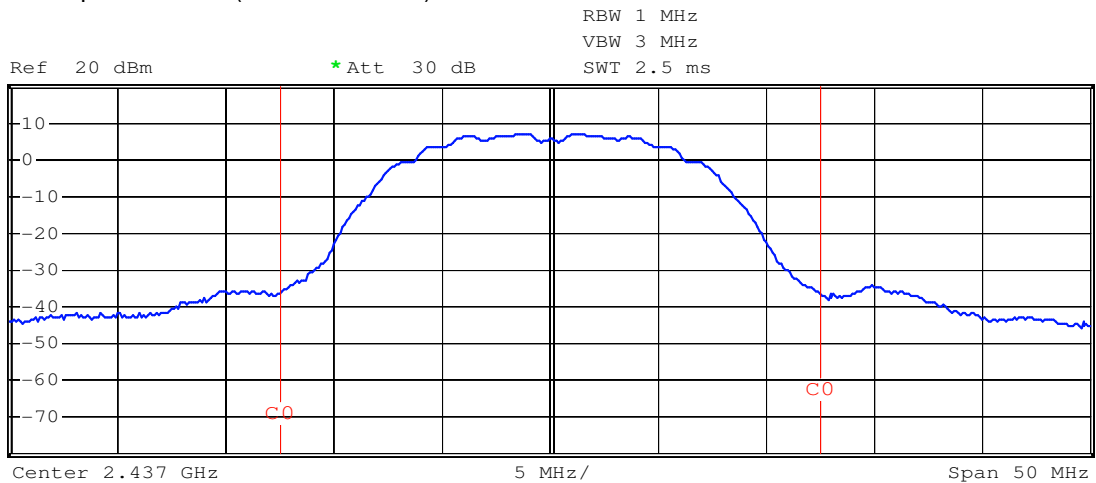


Peak Power Output Data Plot(CH 1 2412MHz)



Tx Channel
Bandwidth 25 MHz Power 14.77 dBm

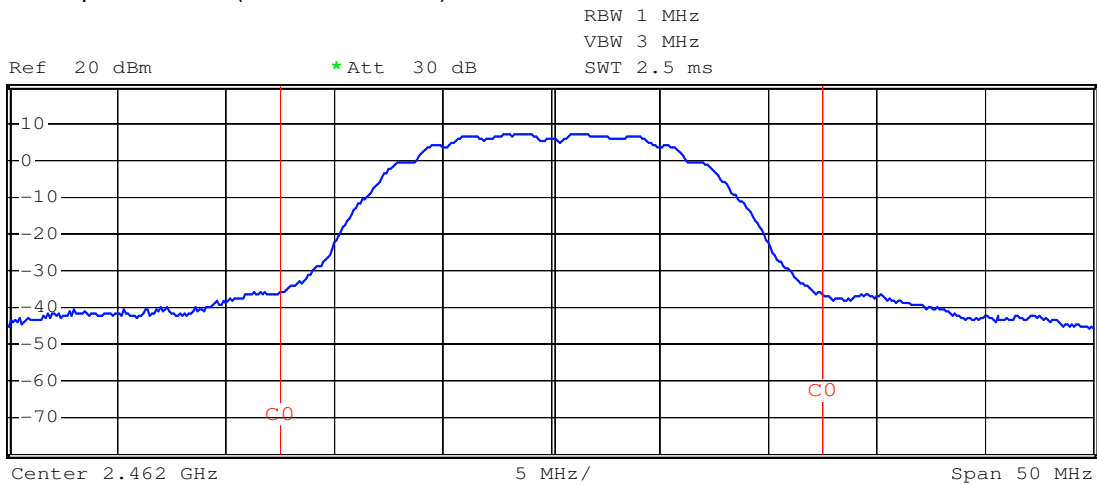
Peak Power Output Data Plot(CH 6 2437MHz)



Tx Channel
Bandwidth 25 MHz Power 15.96 dBm



Peak Power Output Data Plot(CH 11 2462MHz)



Tx Channel

Bandwidth

25 MHz

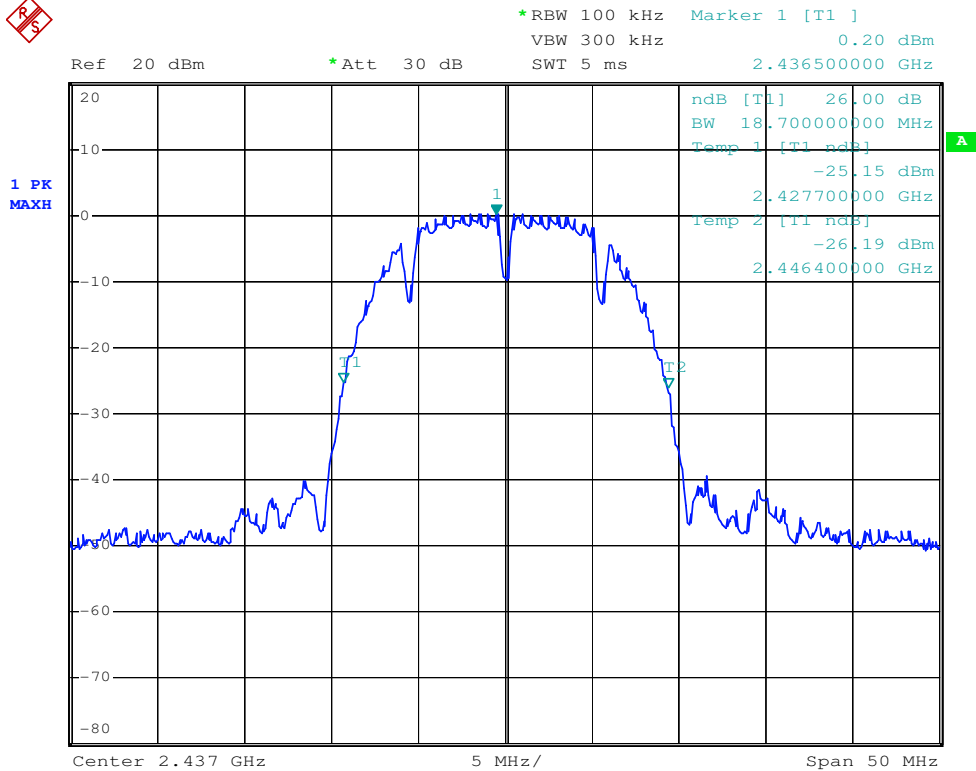
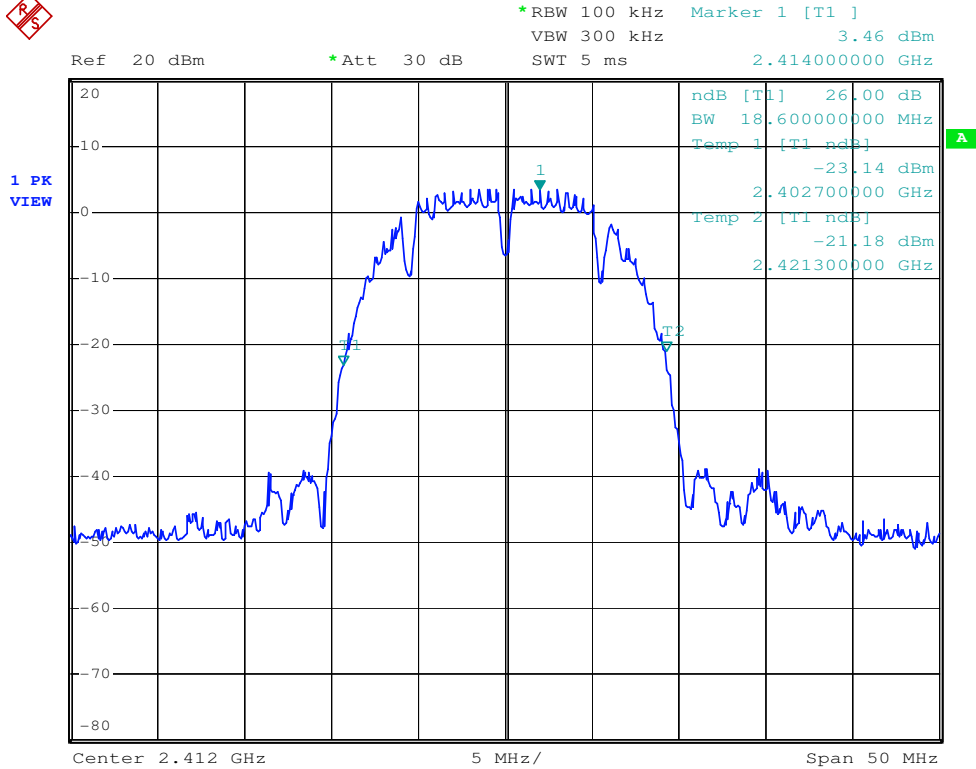
Power

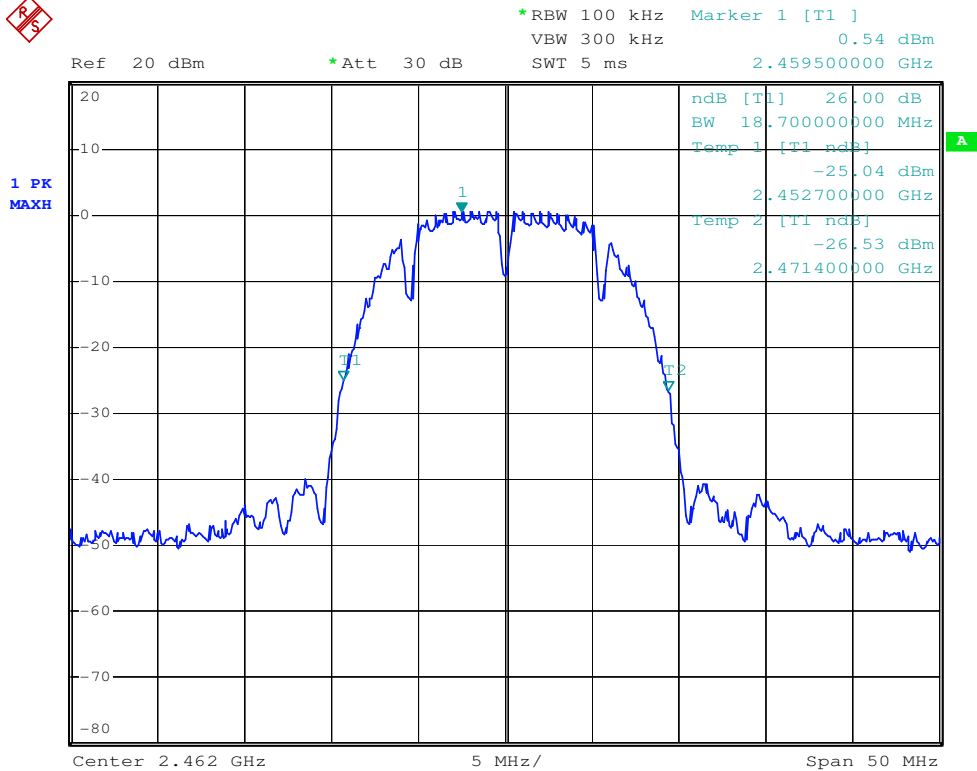
16.14 dBm



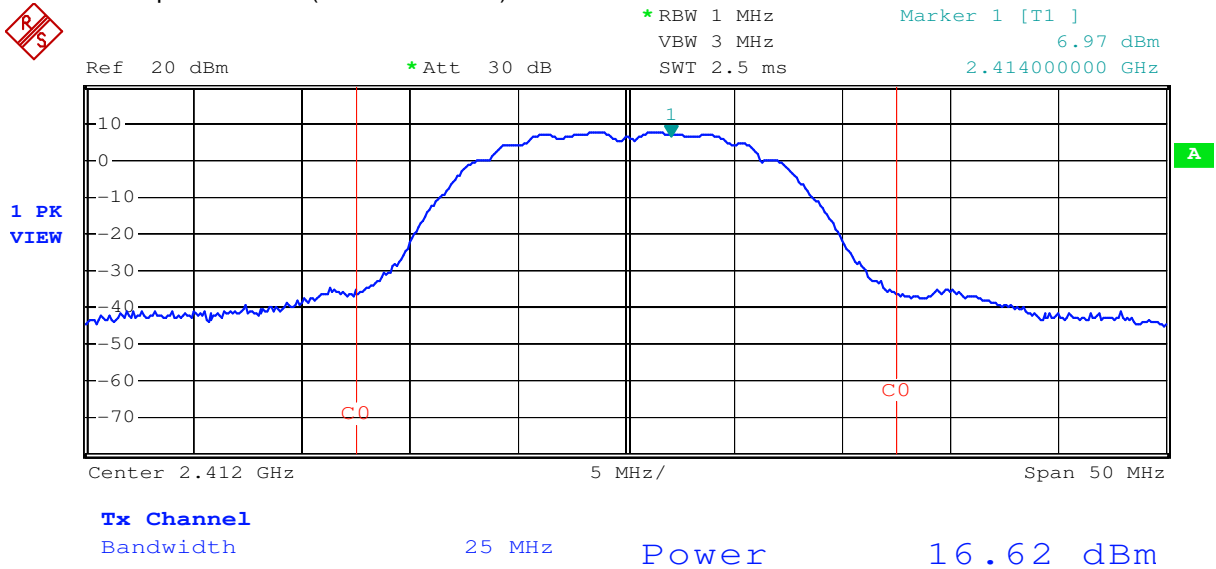
Peak Power Output Data Plot 802.11b 1Mbps (Chain 010)

26dB Bandwidth



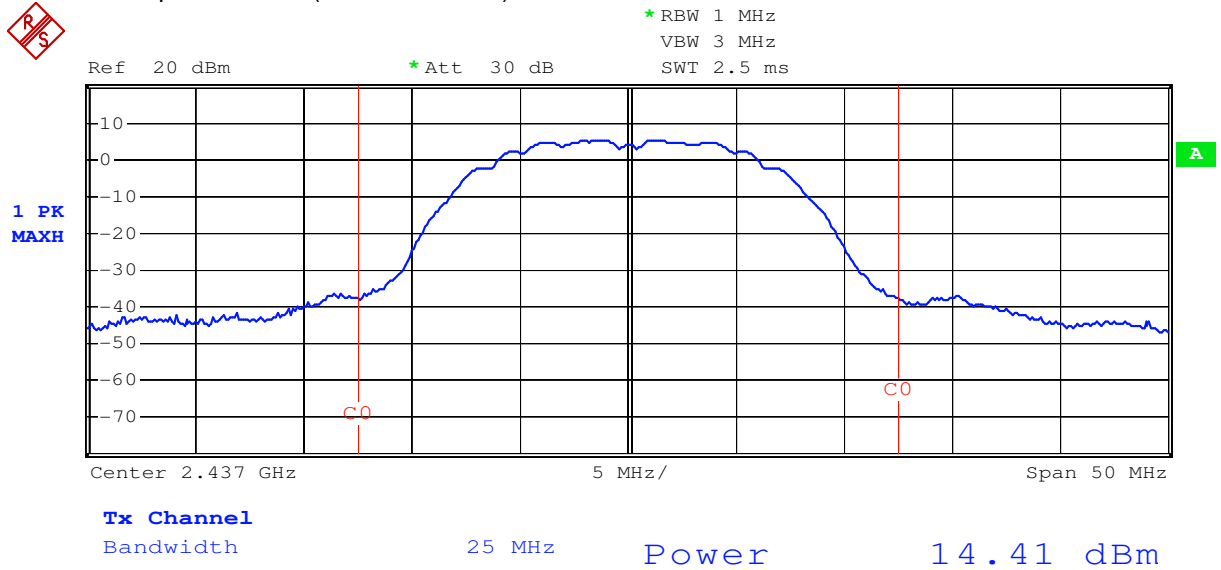


Peak Power Output Data Plot(CH 1 2412MHz)

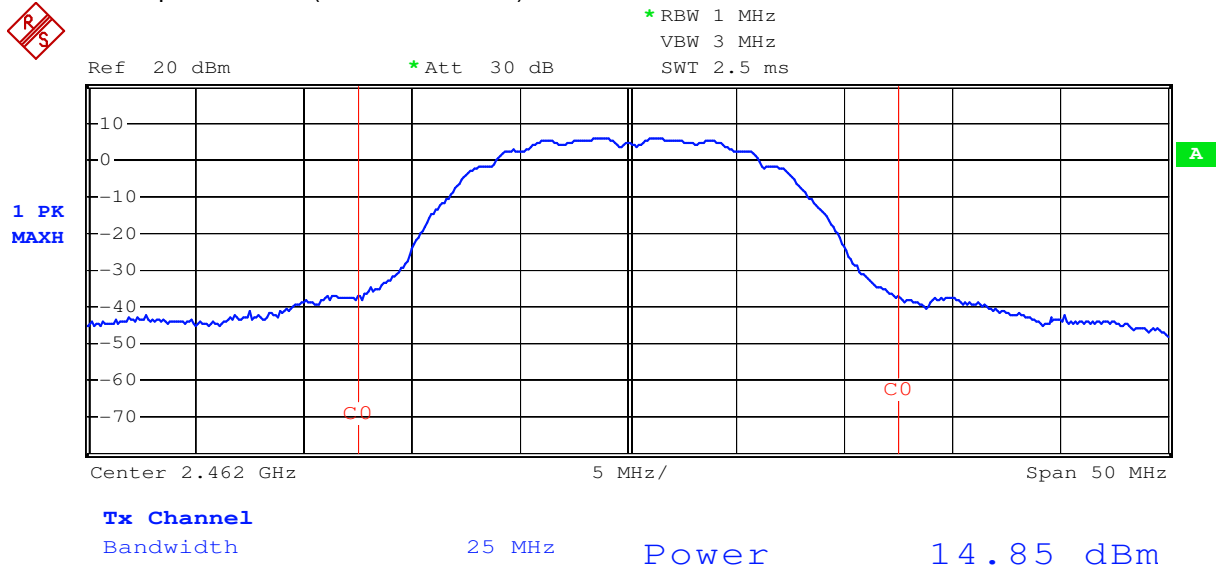




Peak Power Output Data Plot(CH 6 2437MHz)



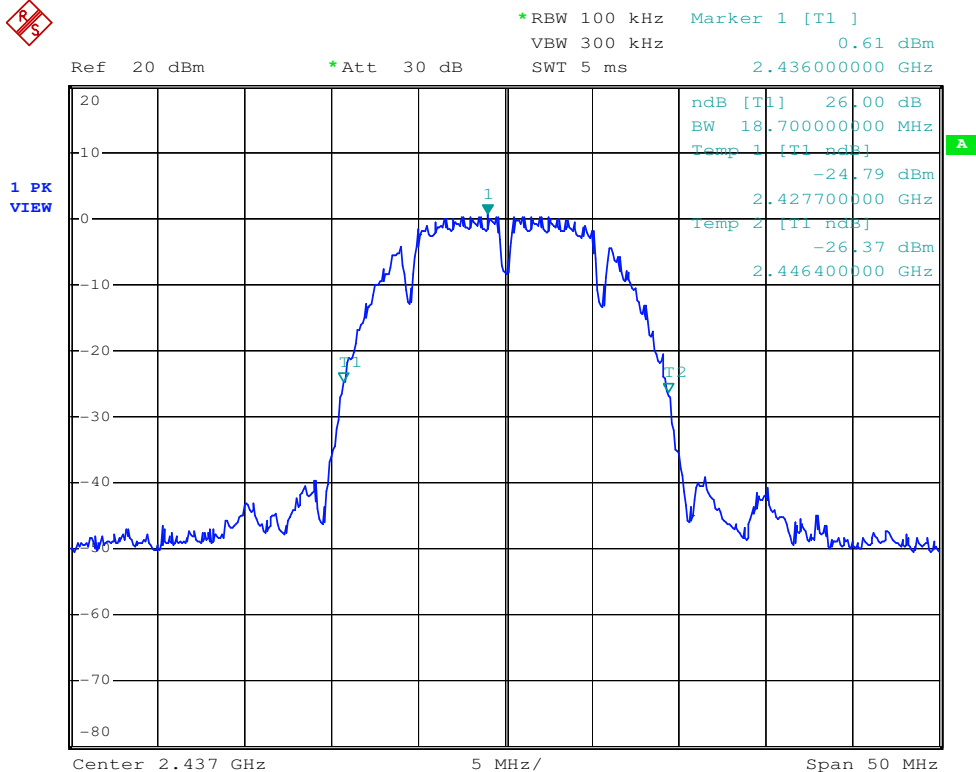
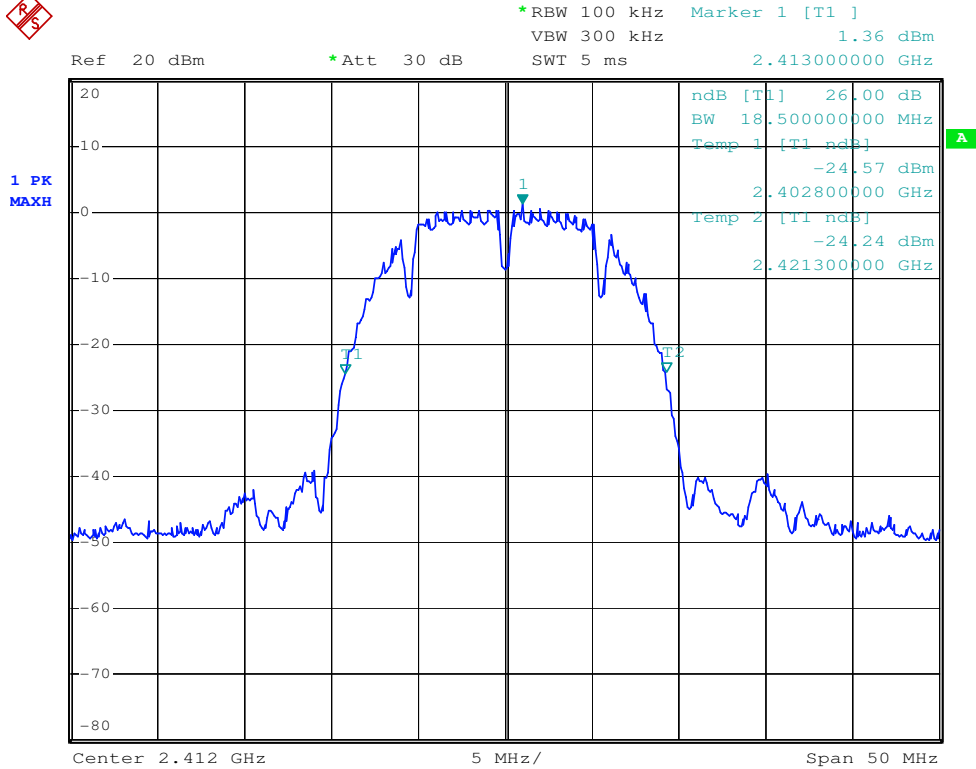
Peak Power Output Data Plot(CH 11 2462MHz)

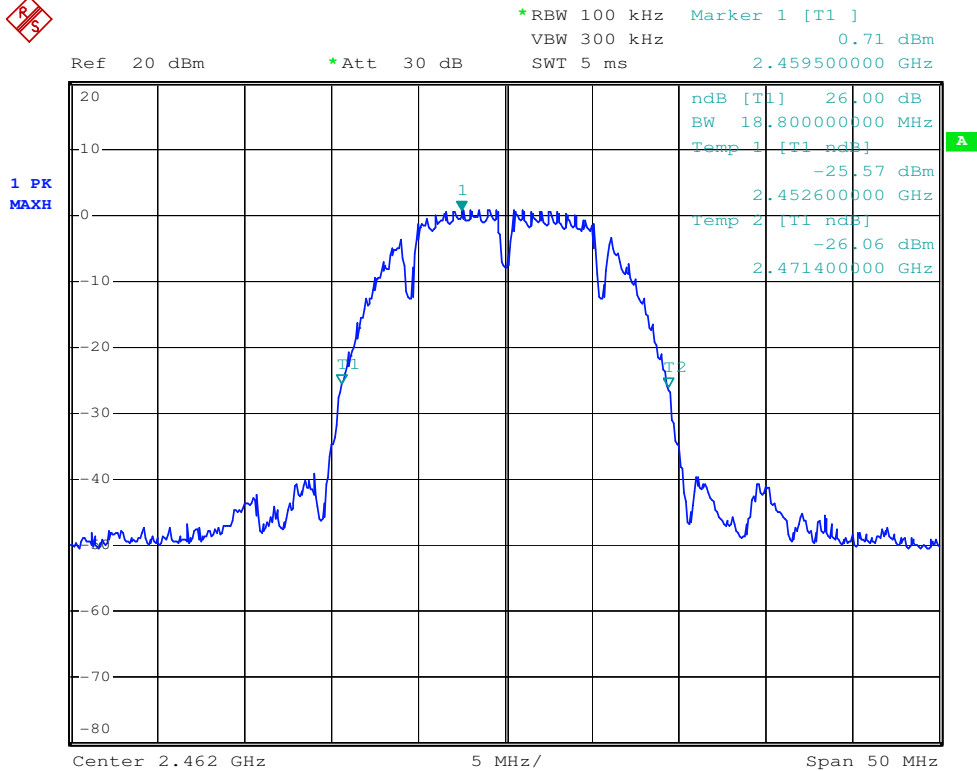




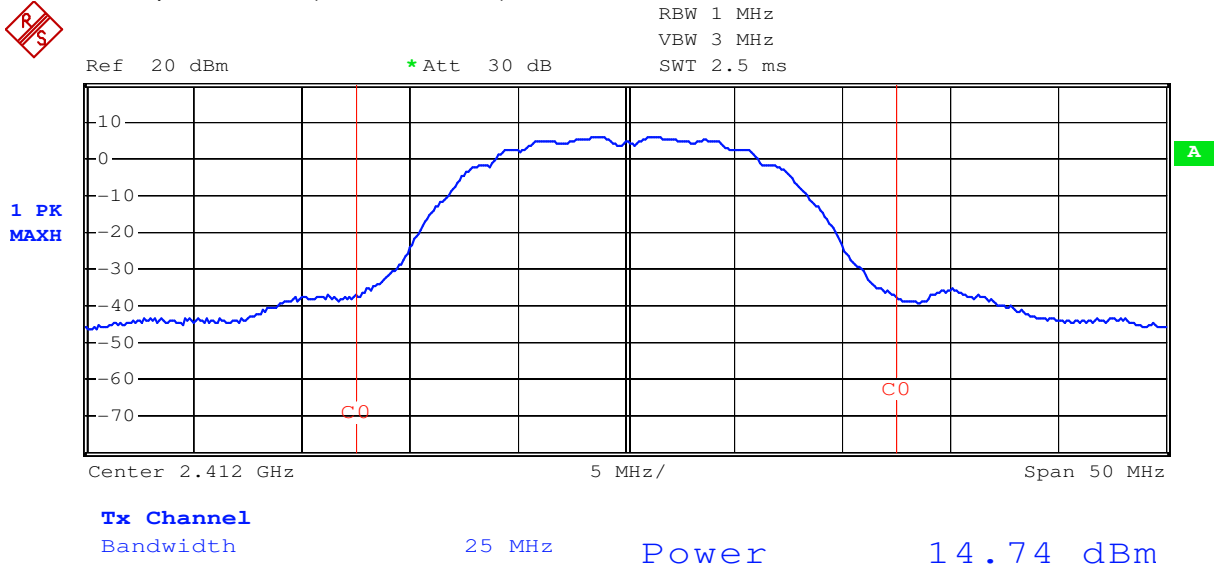
Peak Power Output Data Plot 802.11b 1Mbps (Chain 001)

26dB Bandwidth



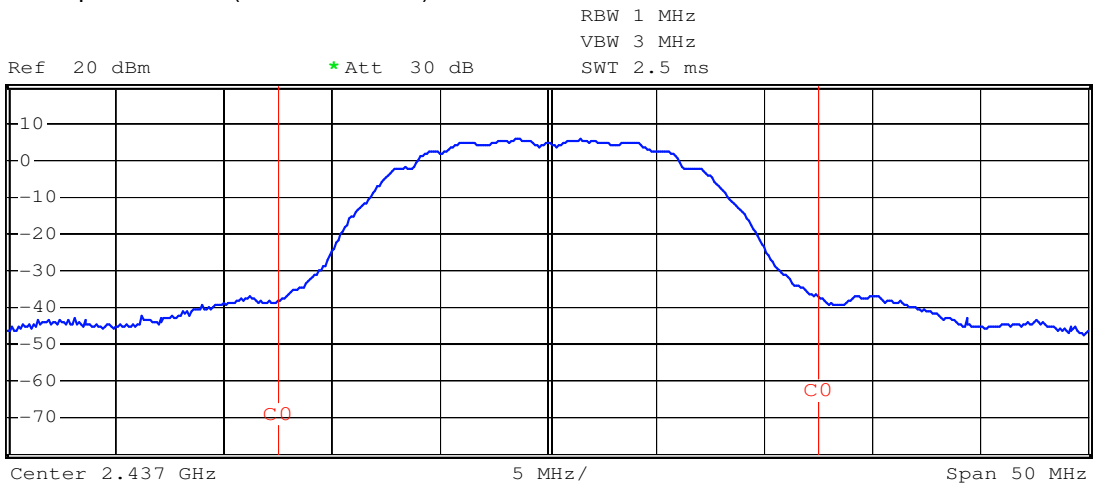


Peak Power Output Data Plot(CH 1 2412MHz)



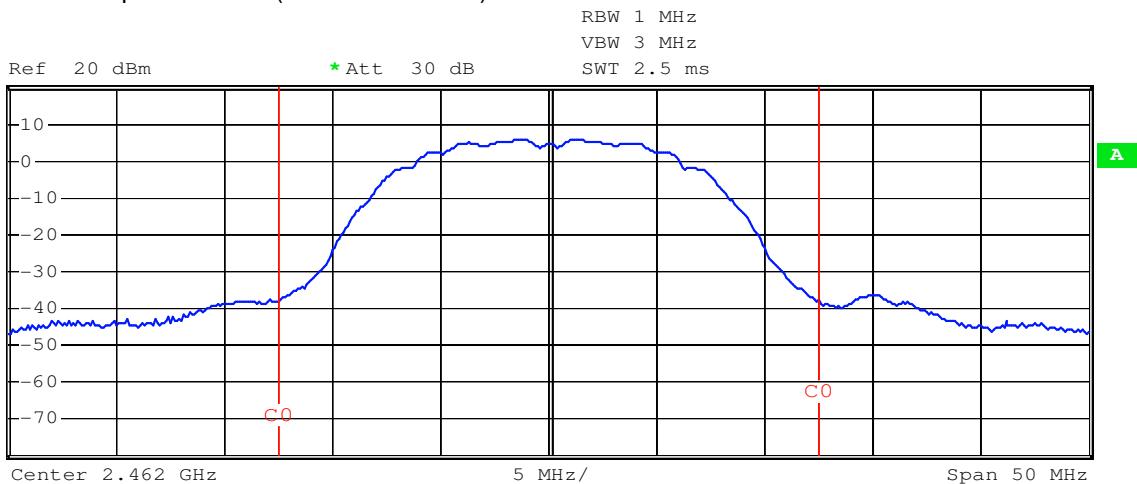


Peak Power Output Data Plot(CH 6 2437MHz)



Tx Channel
Bandwidth 25 MHz Power 14.60 dBm

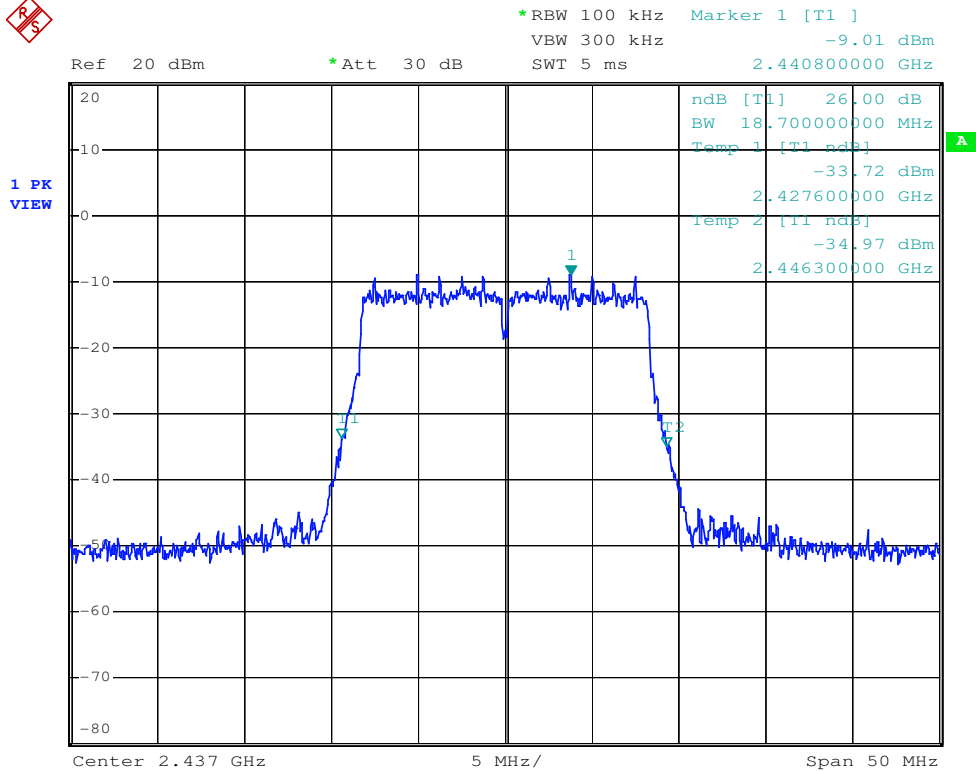
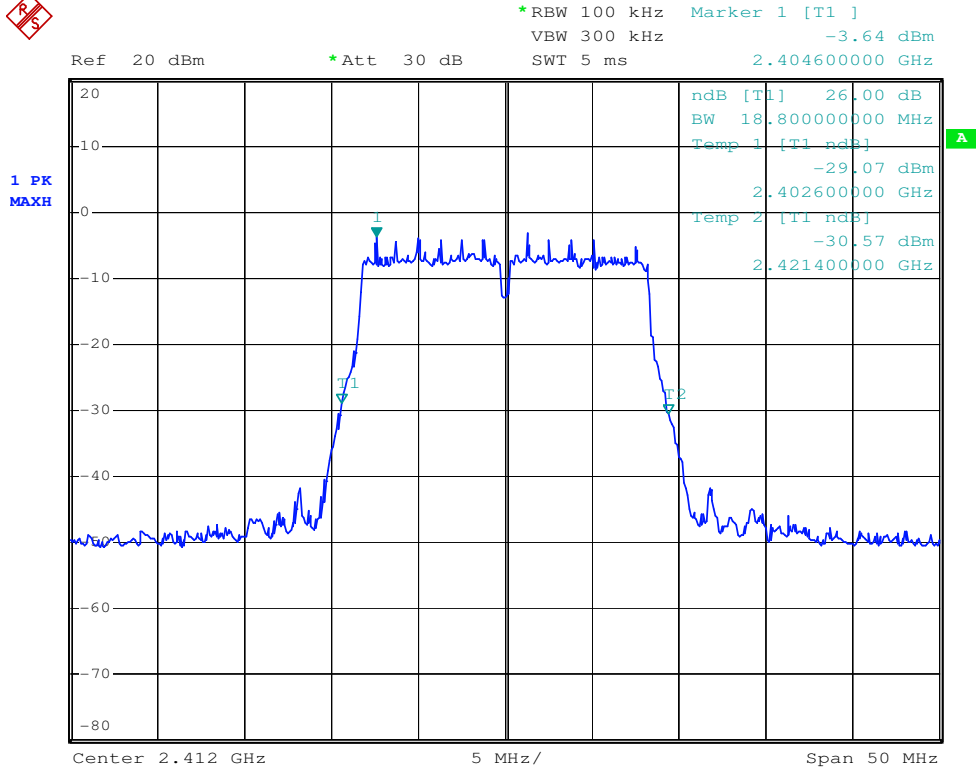
Peak Power Output Data Plot(CH 11 2462MHz)

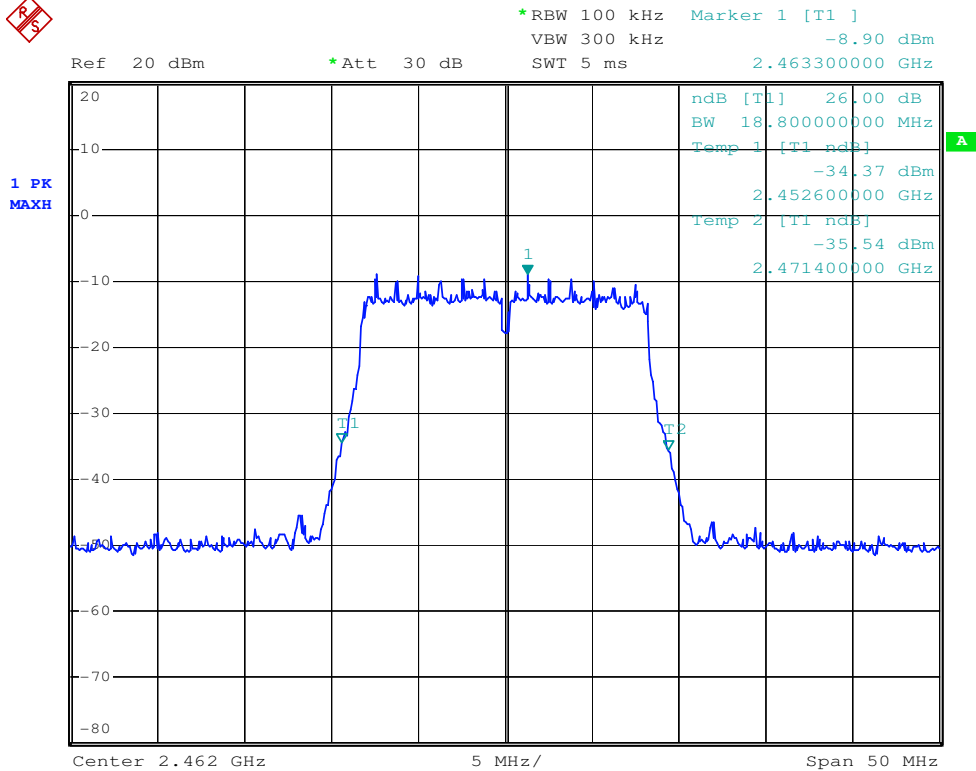


Tx Channel
Bandwidth 25 MHz Power 14.76 dBm

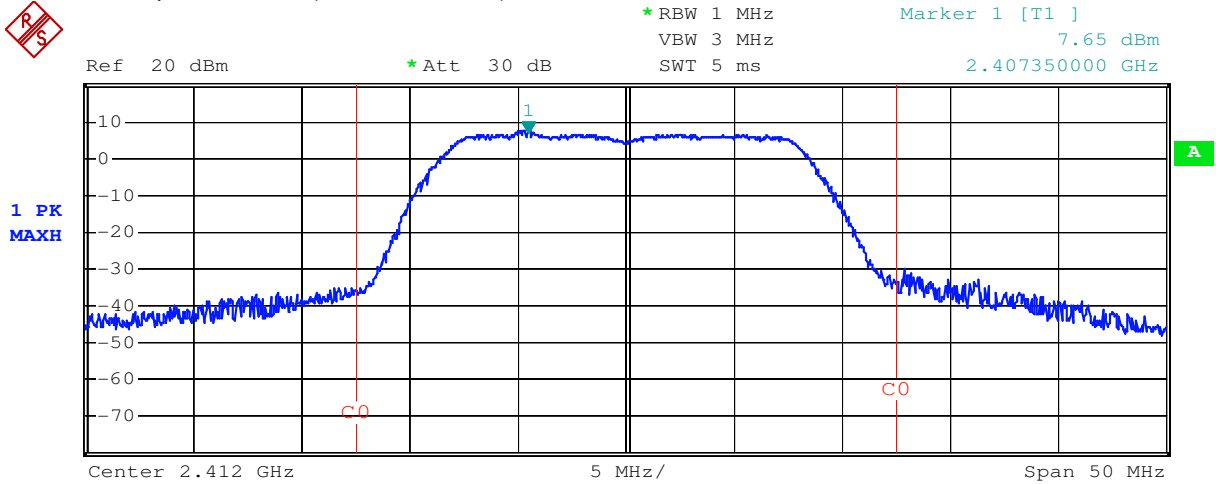
Peak Power Output Data Plot 802.11g 6Mbps (Chain 100)

26dB Bandwidth





Peak Power Output Data Plot(CH 1 2412MHz)



Tx Channel
Bandwidth

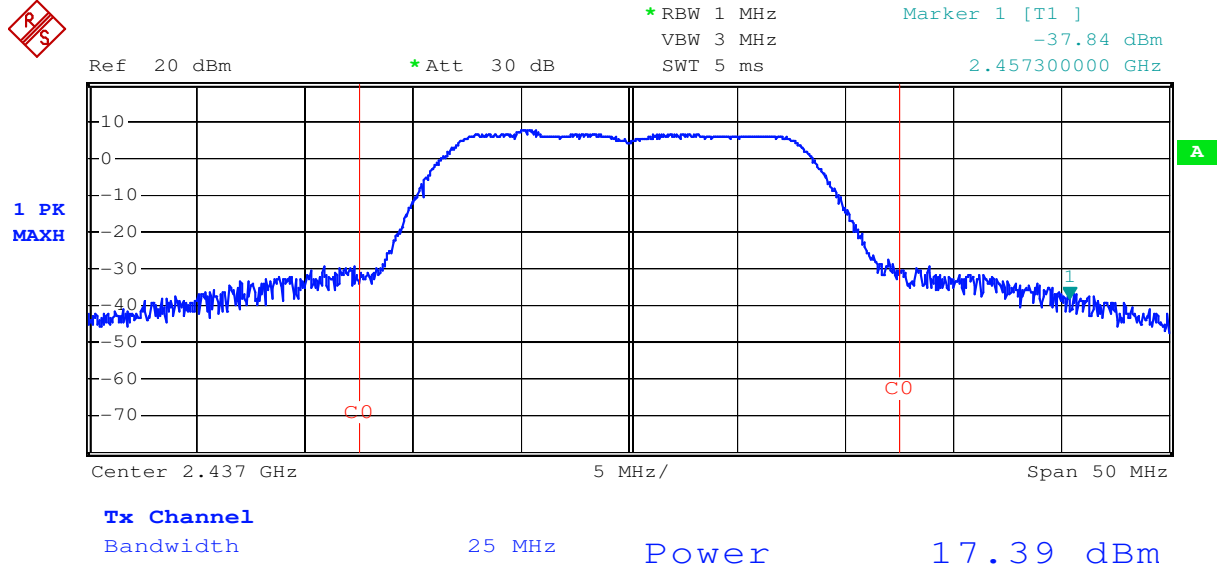
25 MHz

Power

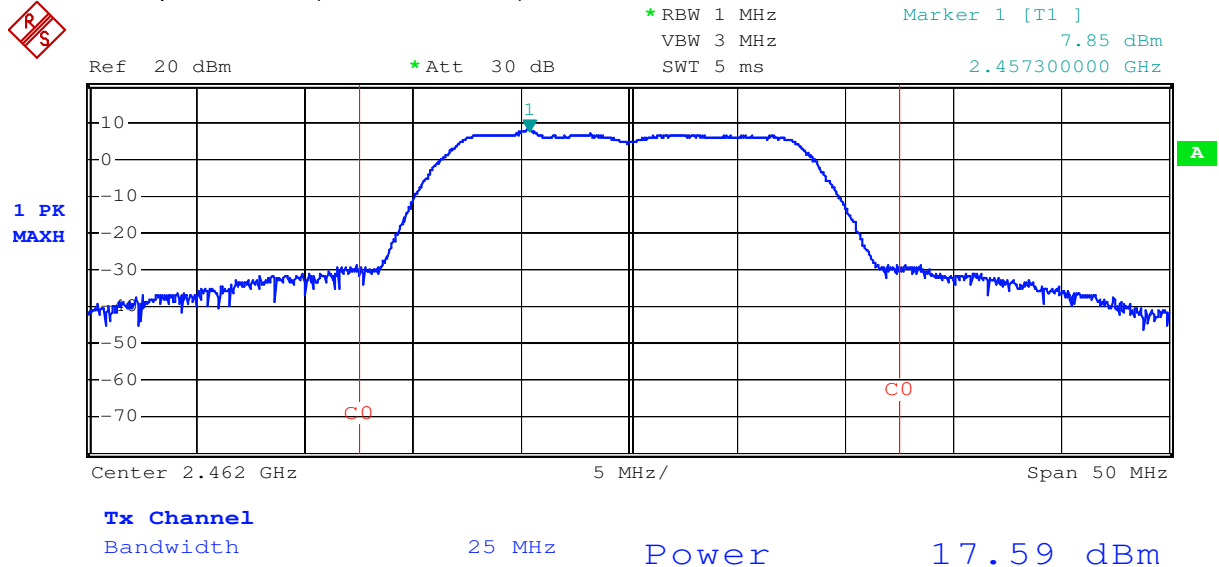
17.32 dBm



Peak Power Output Data Plot(CH 6 2437MHz)

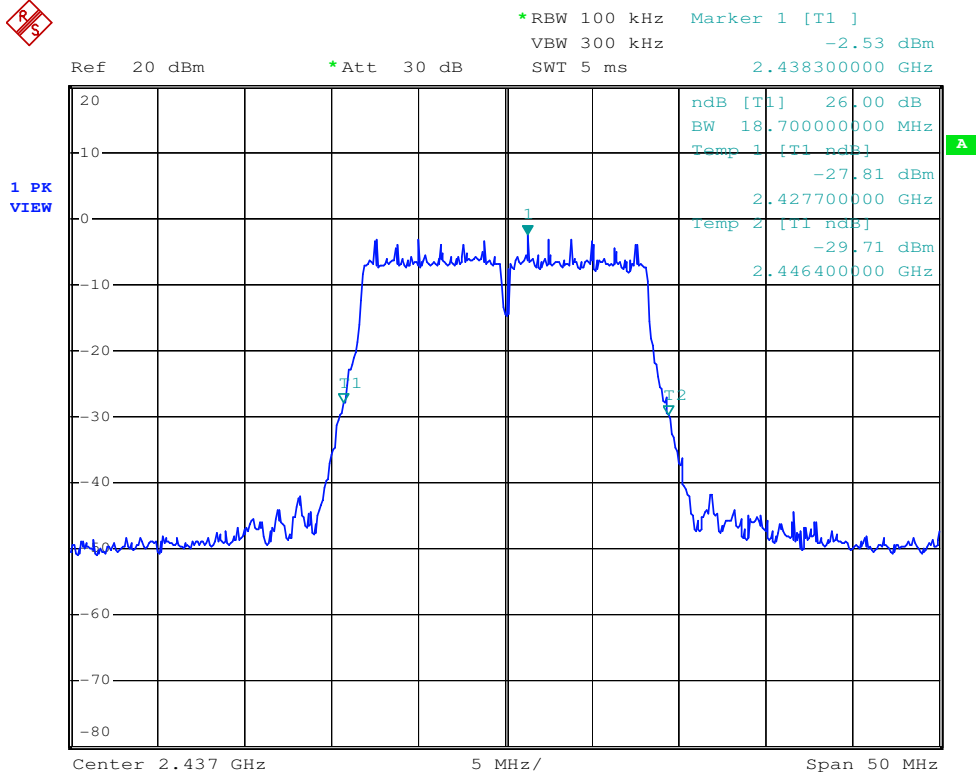
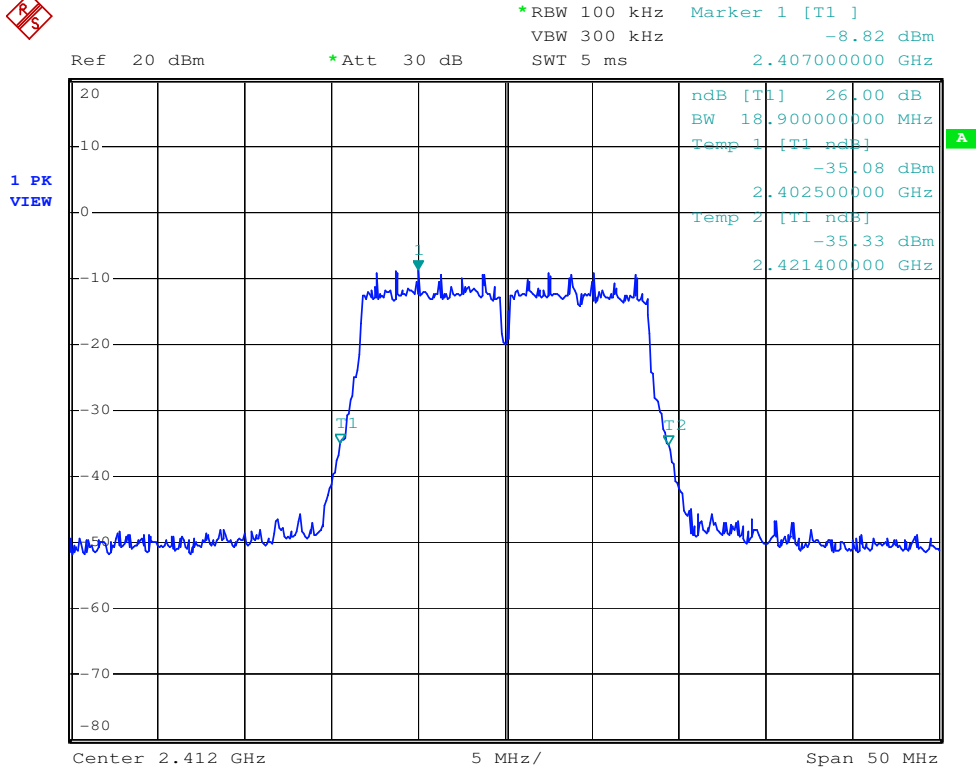


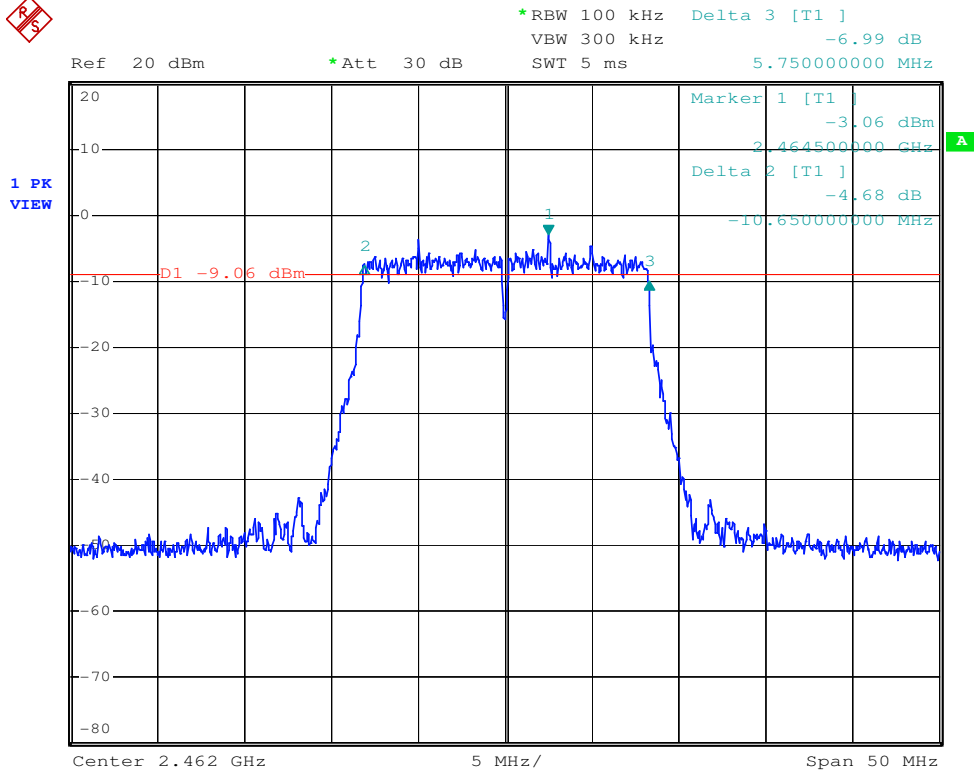
Peak Power Output Data Plot(CH 11 2462MHz)



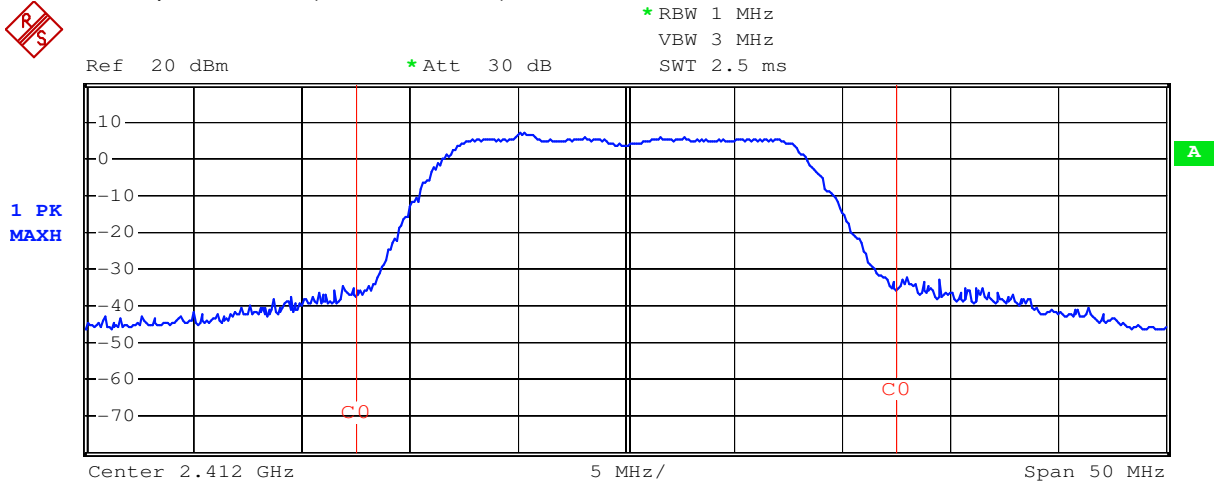
Peak Power Output Data Plot 802.11g 6Mbps (Chain 010)

26dB Bandwidth





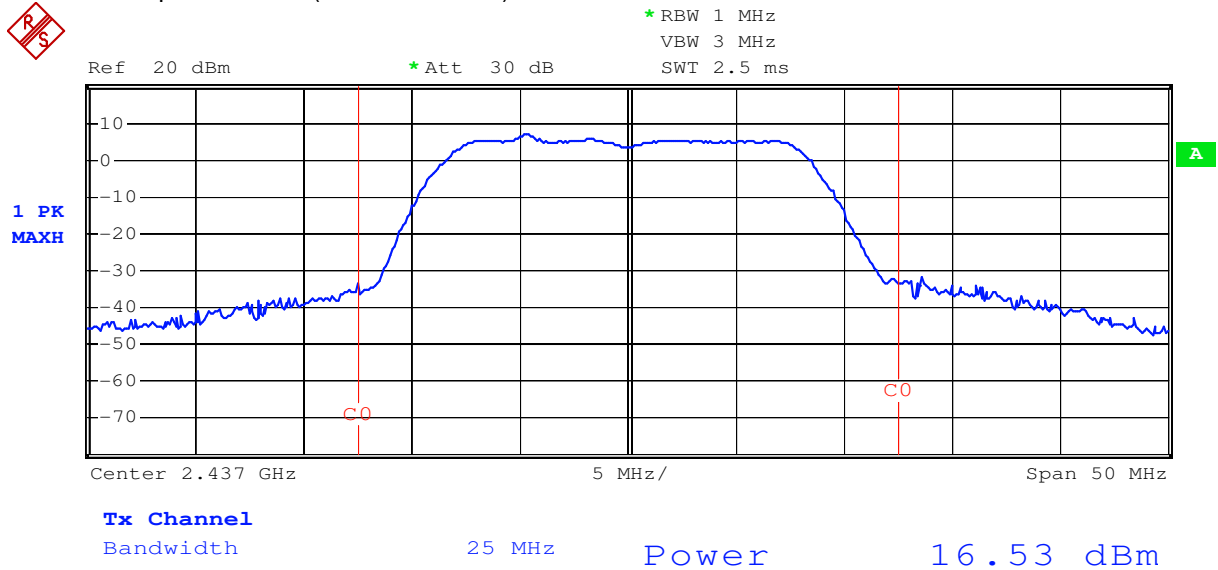
Peak Power Output Data Plot(CH 1 2412MHz)



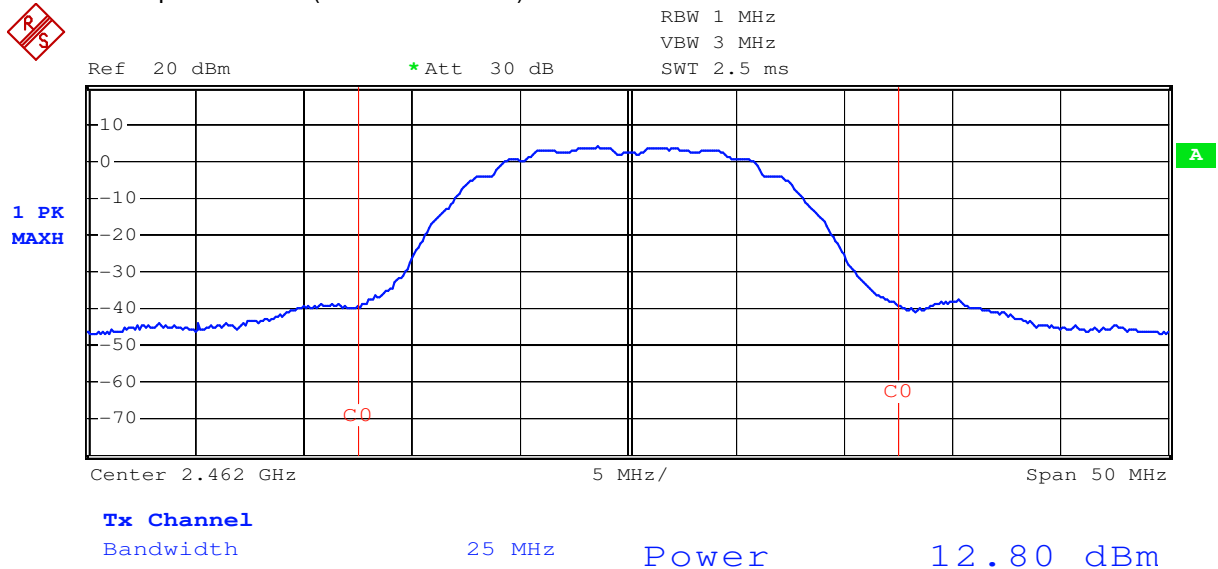
Tx Channel
 Bandwidth 25 MHz Power 16.48 dBm



Peak Power Output Data Plot(CH 6 2437MHz)



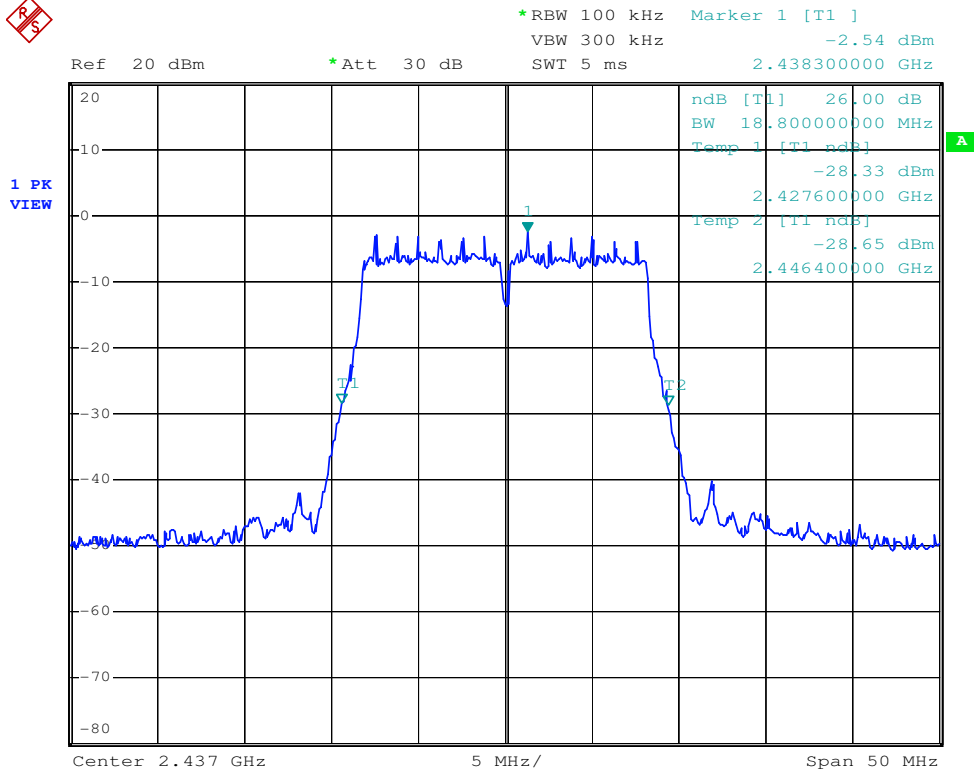
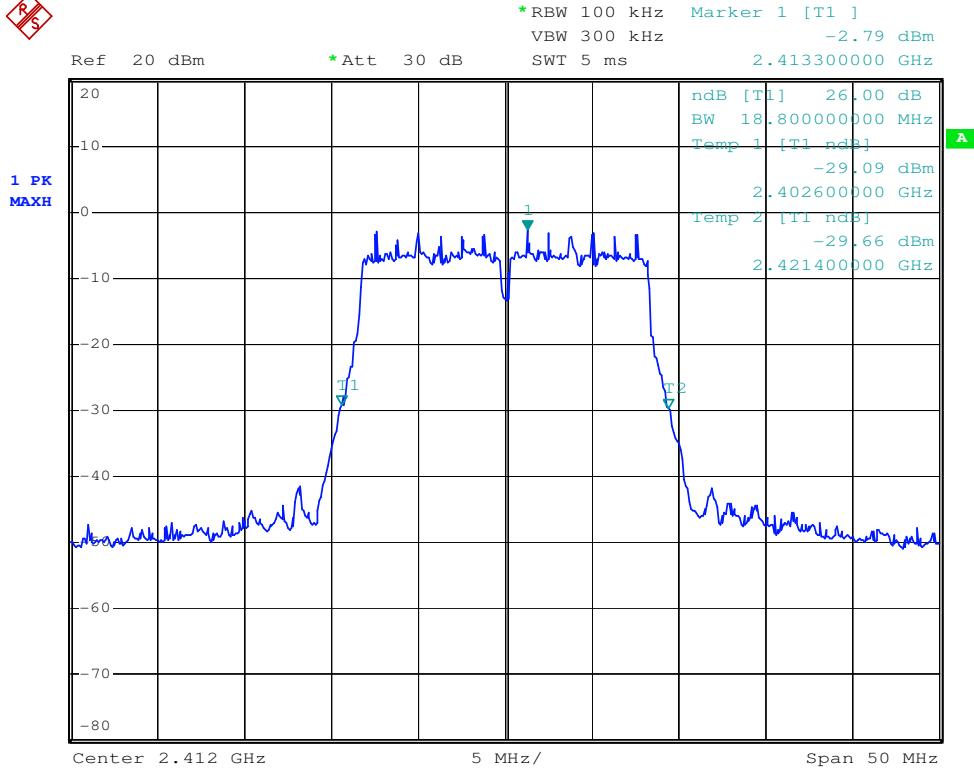
Peak Power Output Data Plot(CH 11 2462MHz)

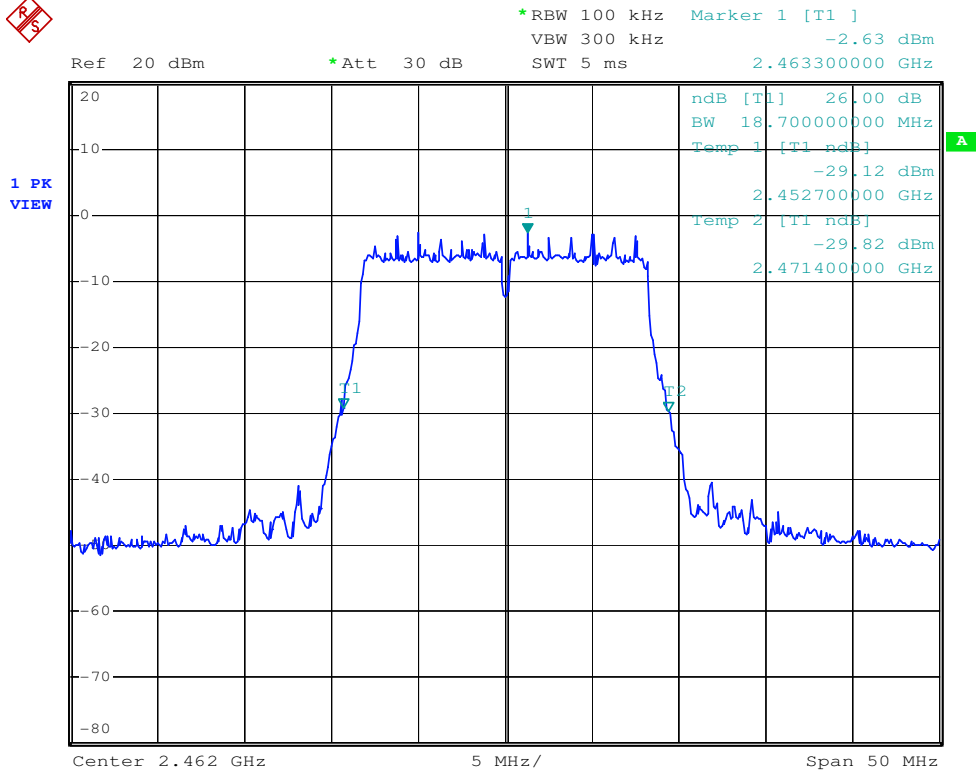




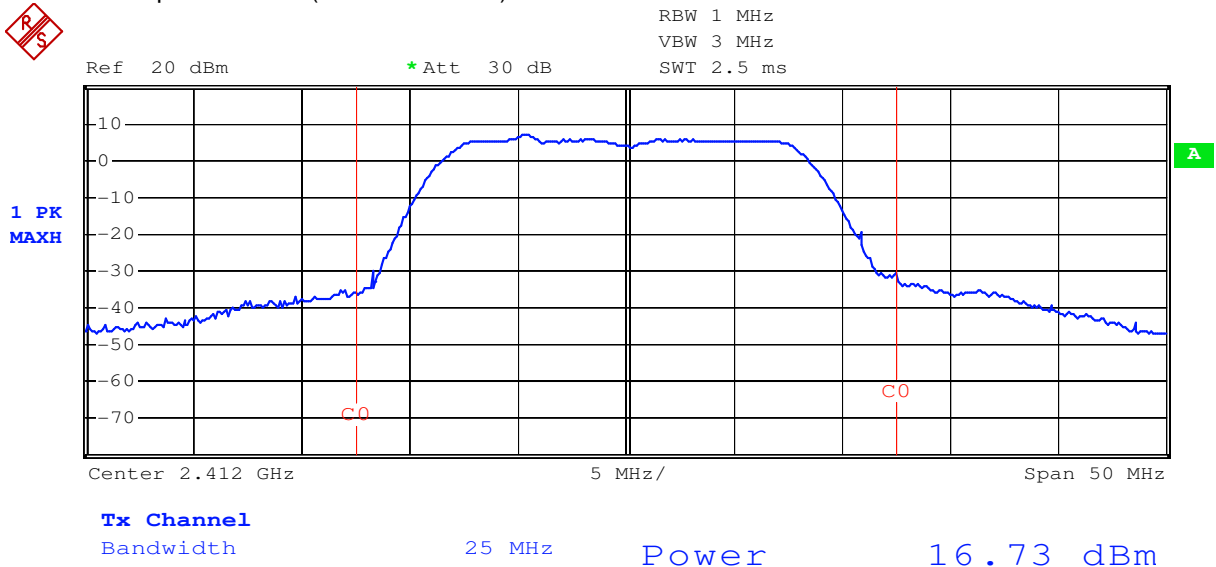
Peak Power Output Data Plot 802.11g 6Mbps (Chain 001)

26dB Bandwidth



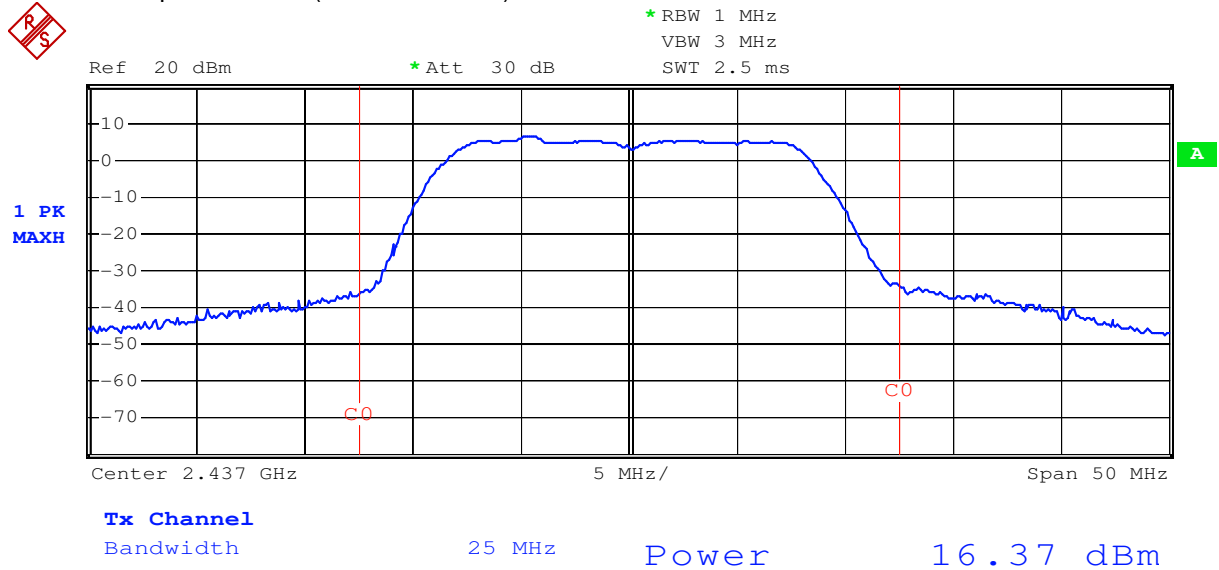


Peak Power Output Data Plot(CH 1 2412MHz)

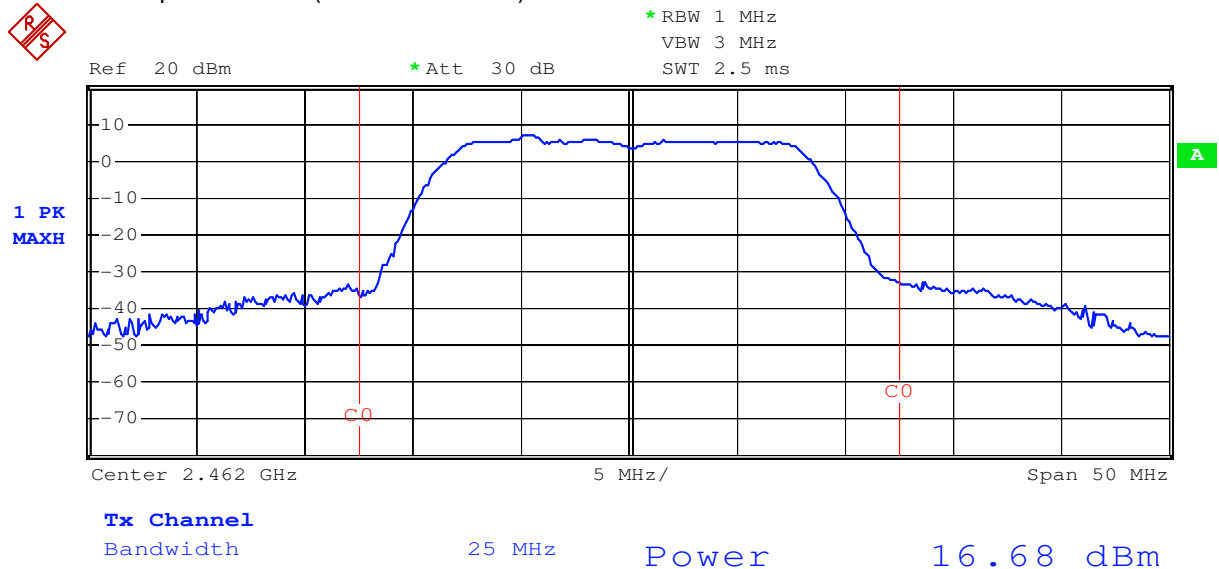




Peak Power Output Data Plot(CH 6 2437MHz)



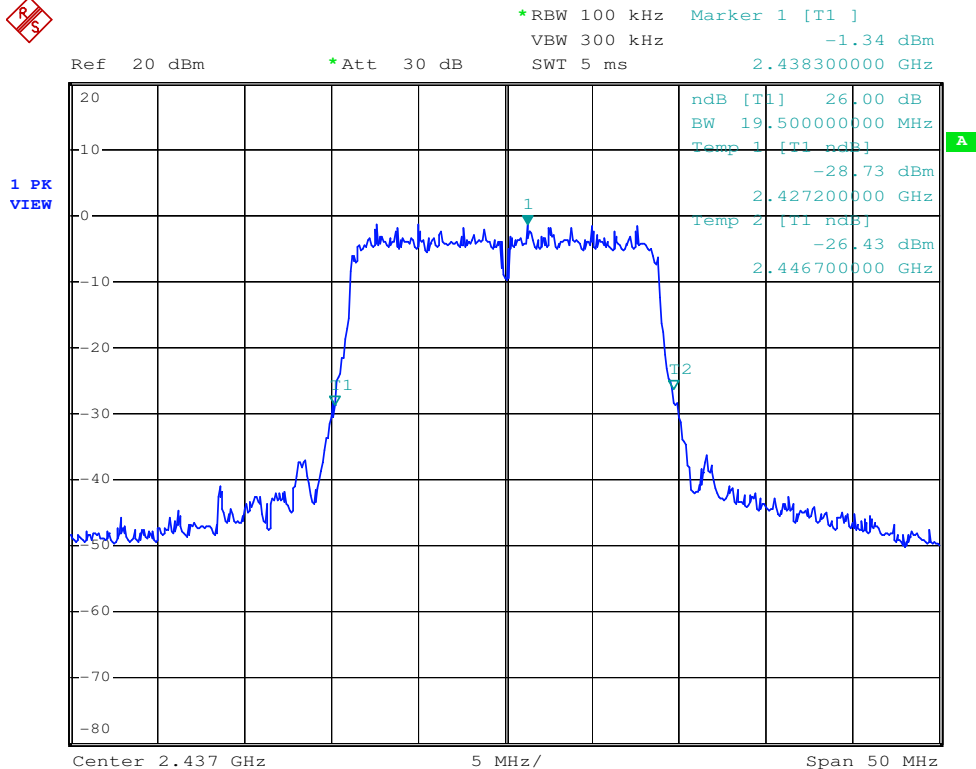
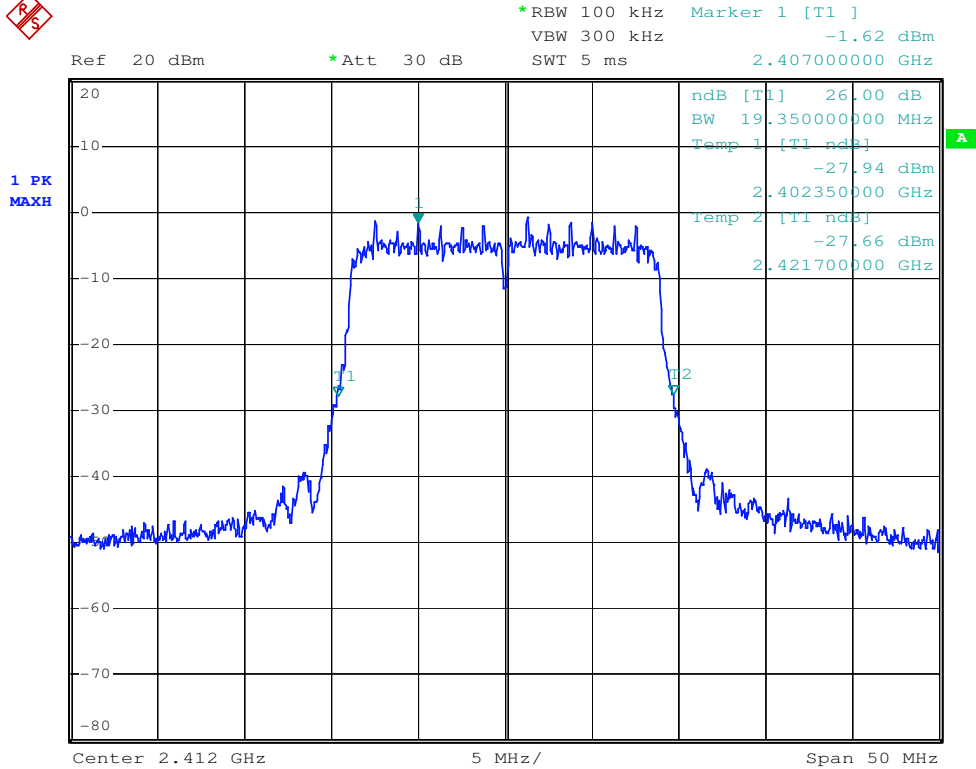
Peak Power Output Data Plot(CH 11 2462MHz)

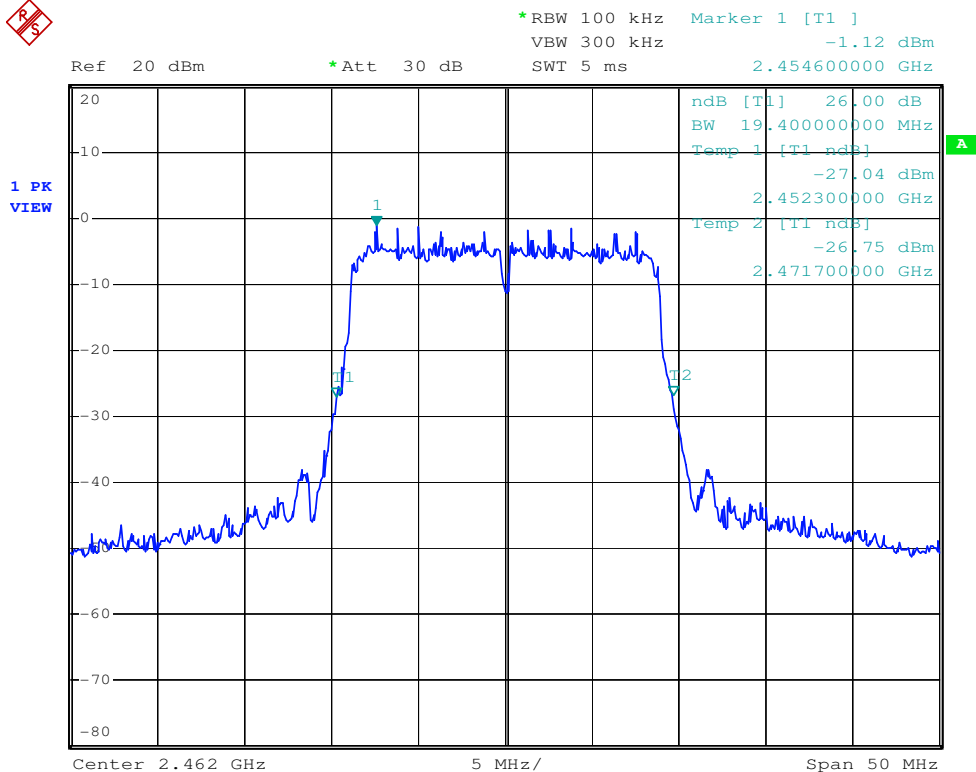




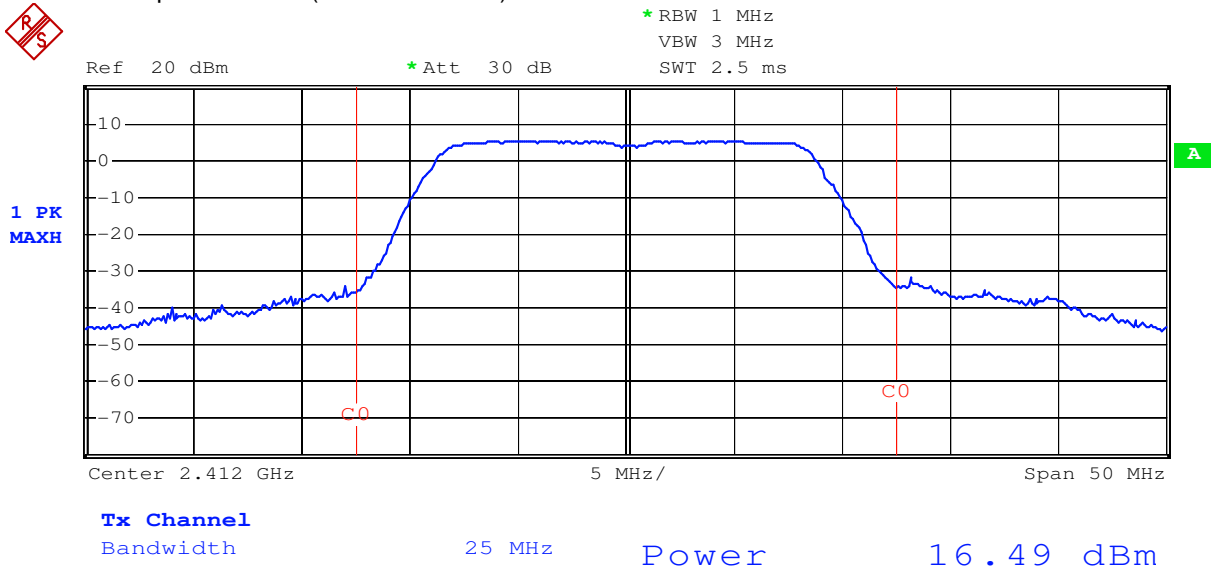
Peak Power Output Data Plot 802.11n 2.4G Band (20MHz BW) 6.5Mbps (Chain 100)

26dB Bandwidth





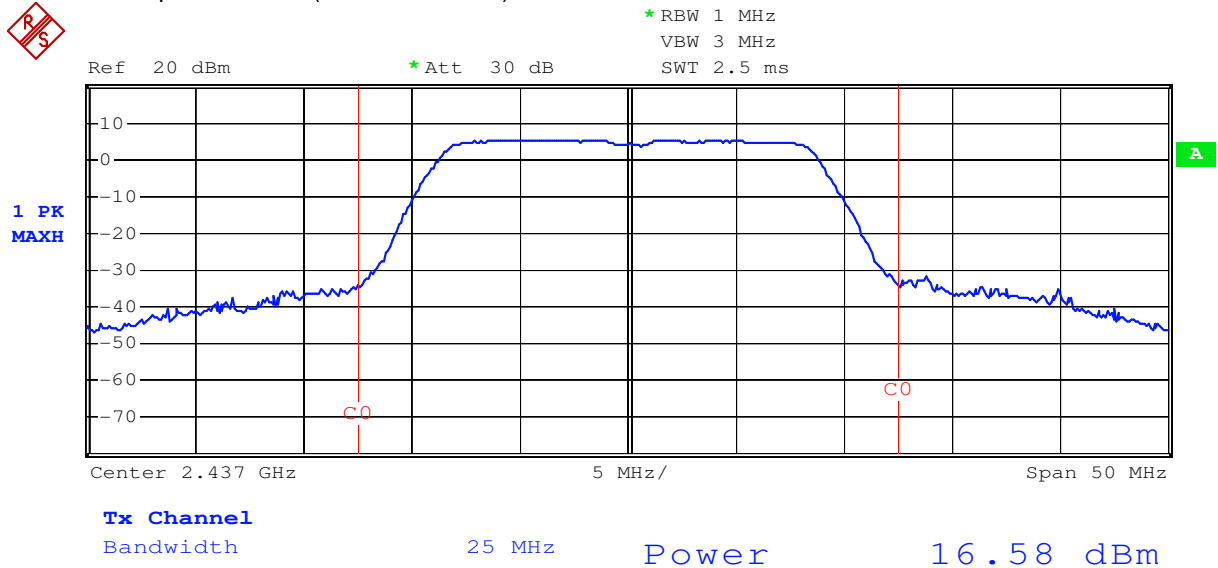
Peak Power Output Data Plot(CH 1 2412MHz)



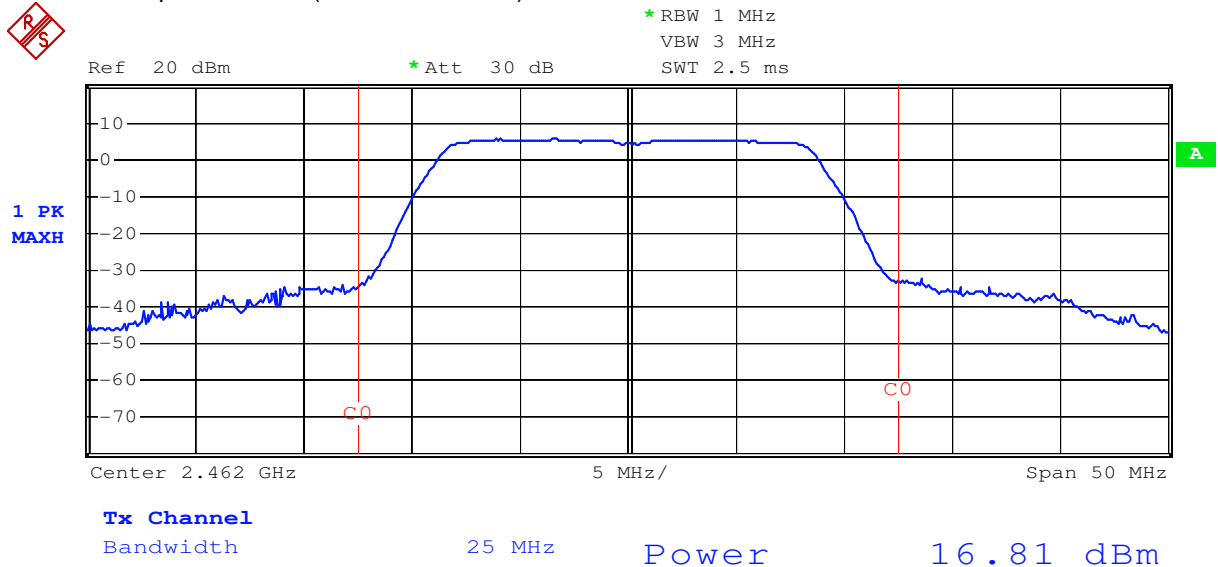
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Peak Power Output Data Plot(CH 6 2437MHz)



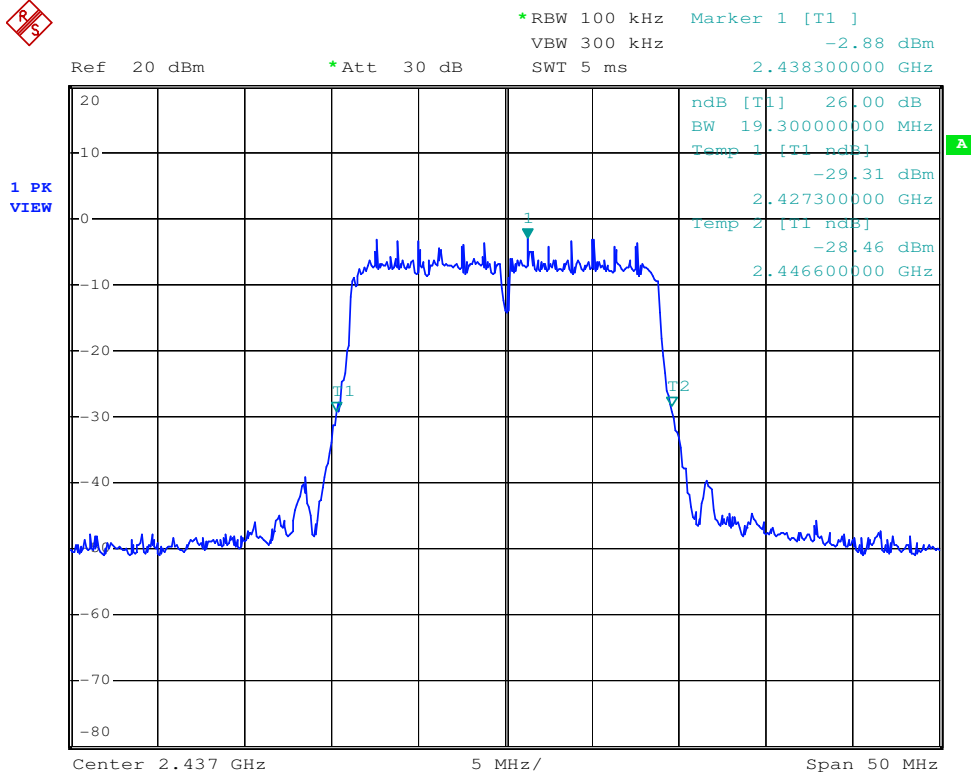
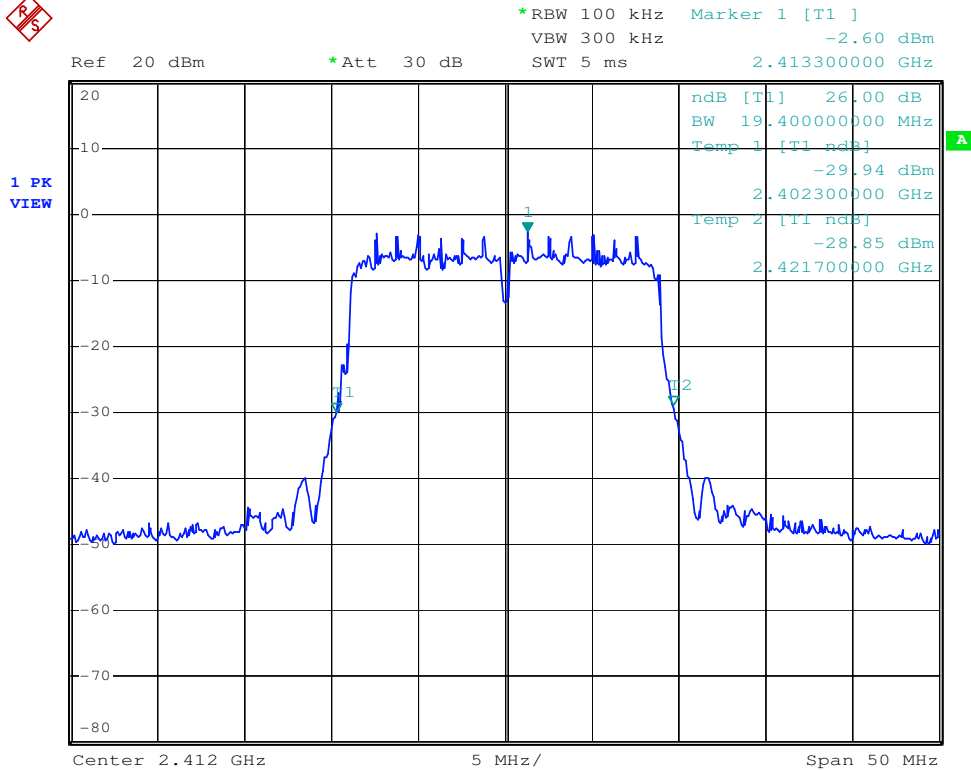
Peak Power Output Data Plot(CH 11 2462MHz)

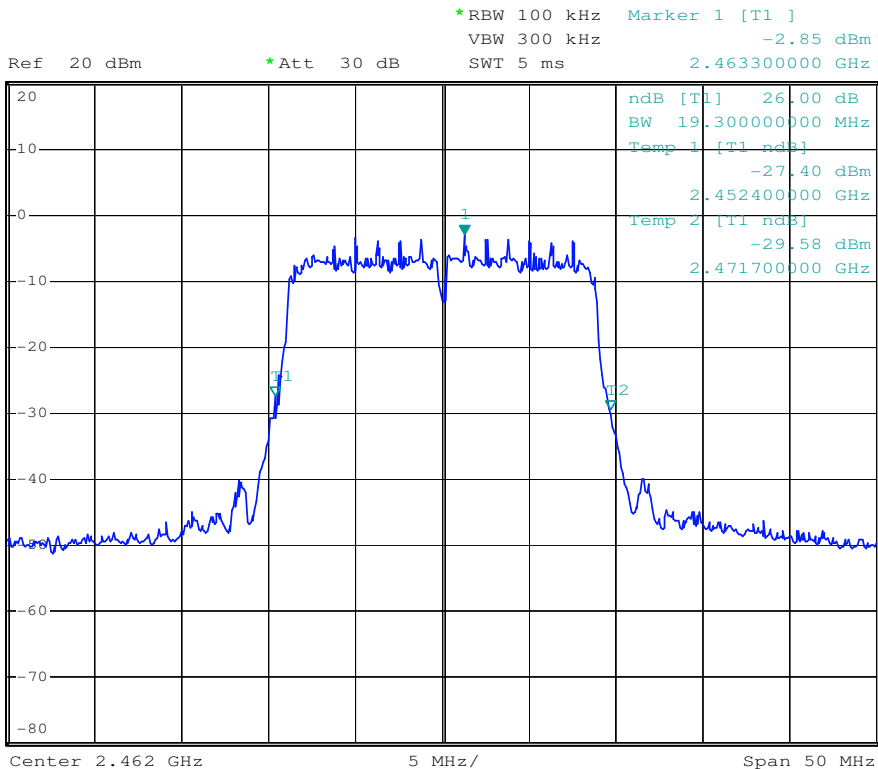




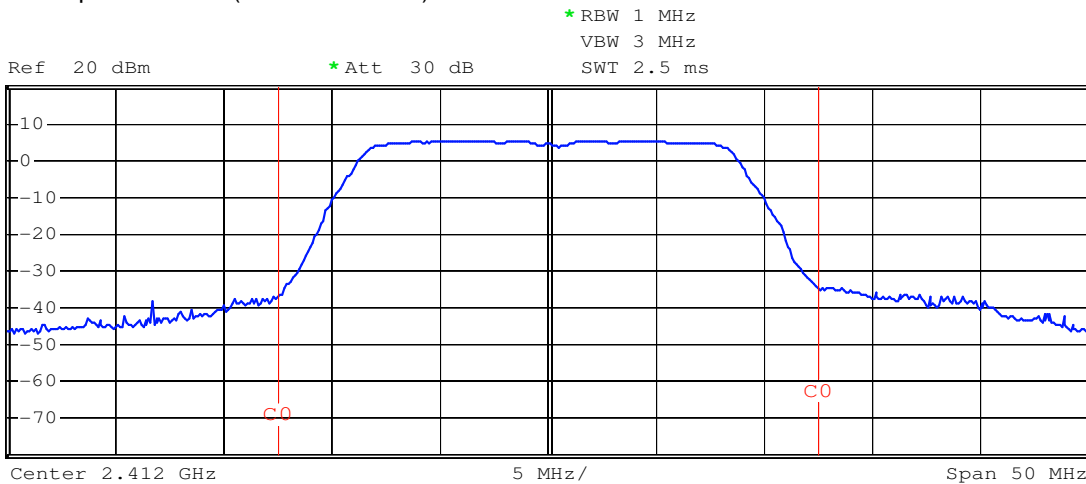
Peak Power Output Data Plot 802.11n 2.4G Band (20MHz BW) 6.5Mbps (Chain 010)

26dB Bandwidth





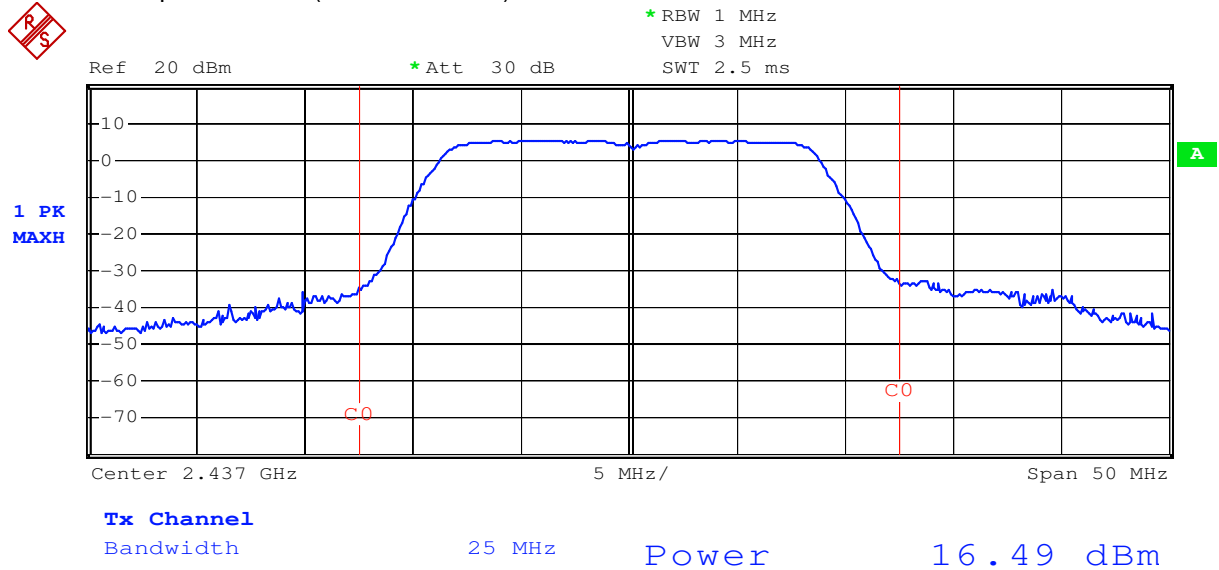
Peak Power Output Data Plot(CH 1 2412MHz)



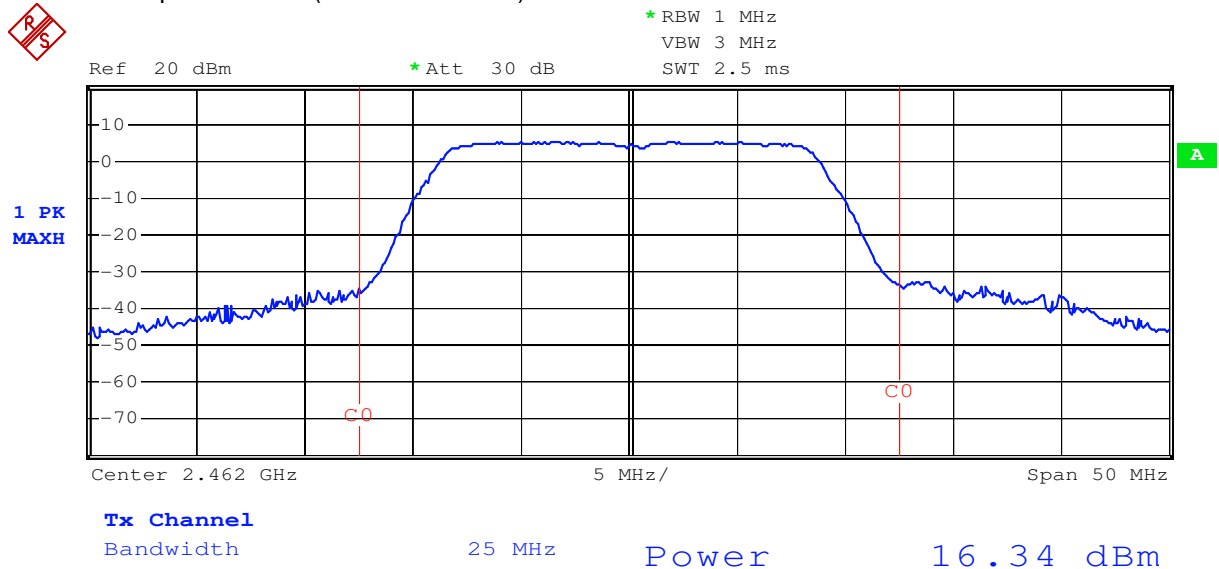
Tx Channel
Bandwidth 25 MHz Power 16.56 dBm



Peak Power Output Data Plot(CH 6 2437MHz)

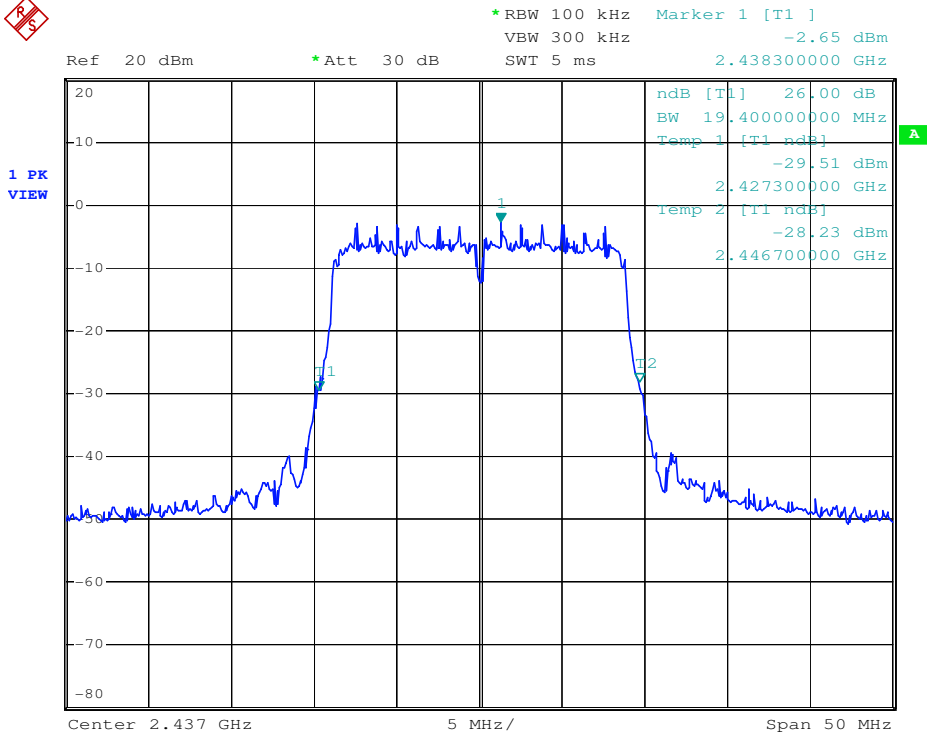
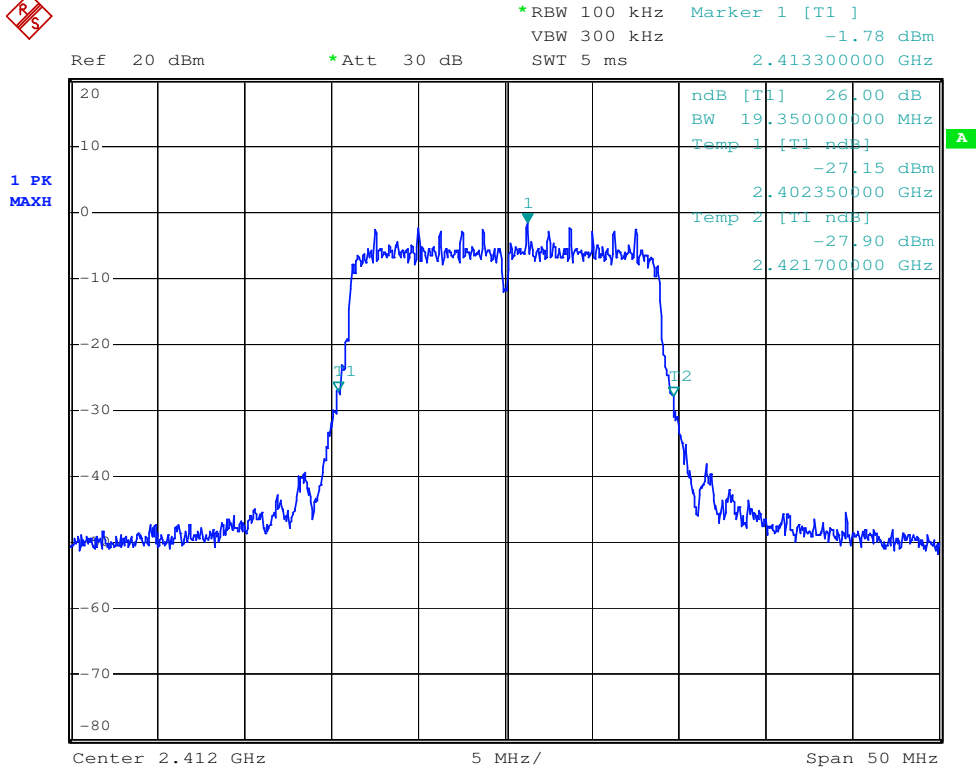


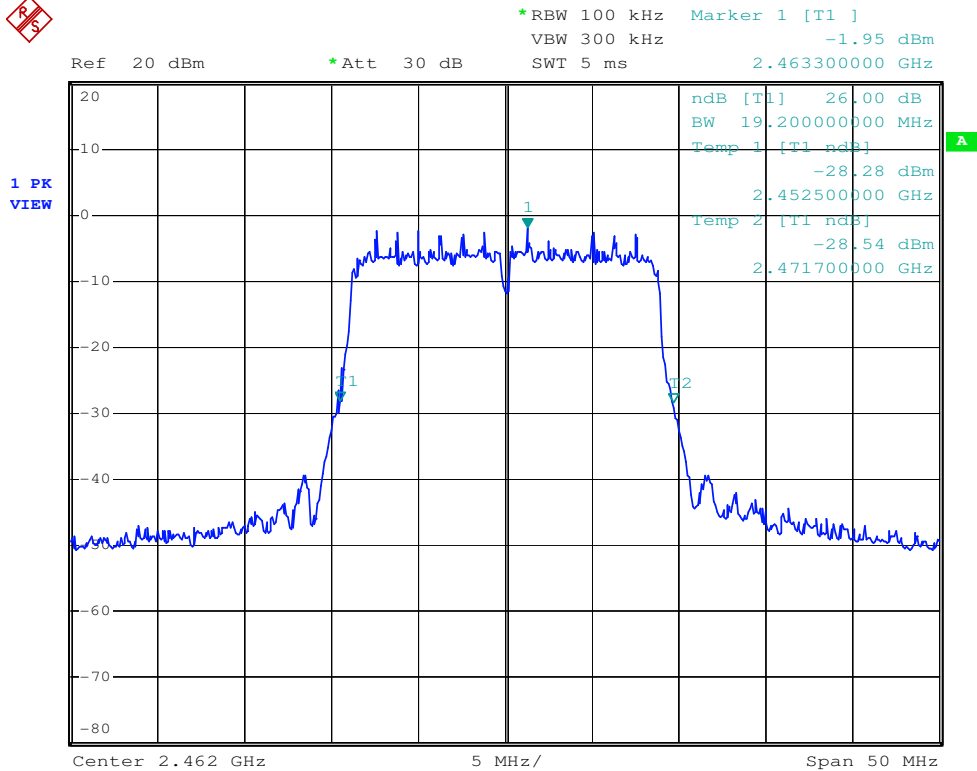
Peak Power Output Data Plot(CH 11 2462MHz)



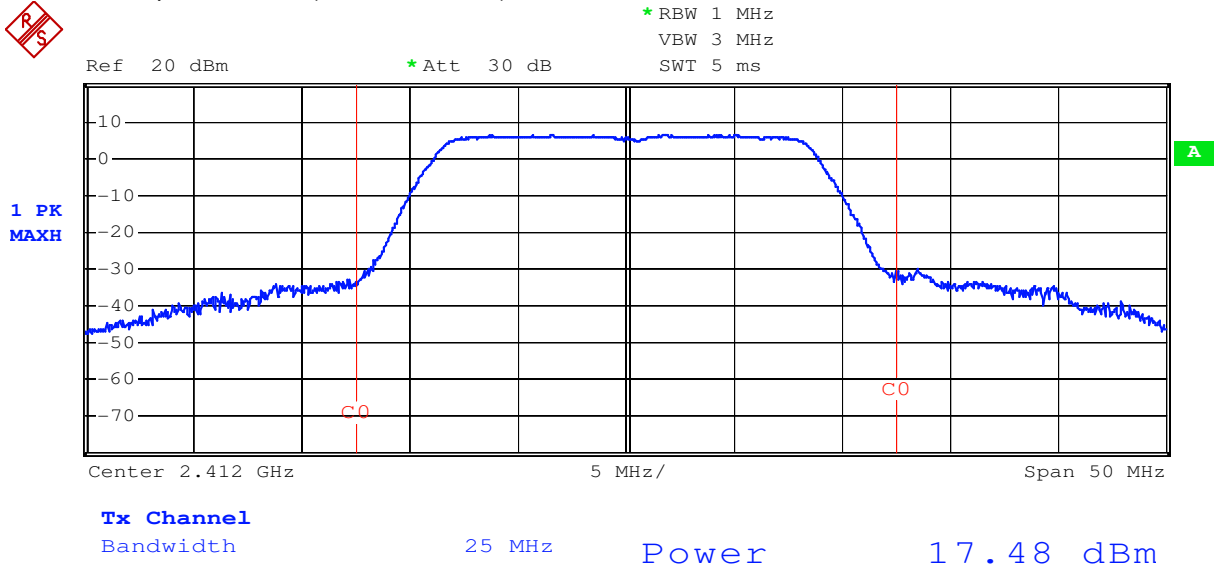
Peak Power Output Data Plot 802.11n 2.4G Band (20MHz BW) 6.5Mbps (Chain 001)

26dB Bandwidth



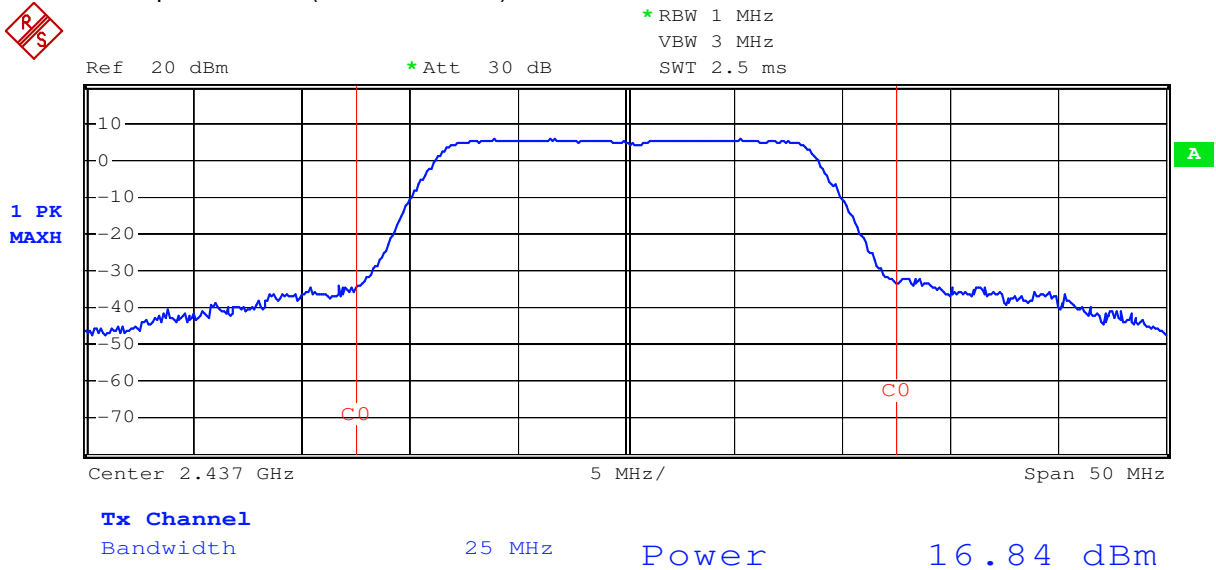


Peak Power Output Data Plot(CH 1 2412MHz)

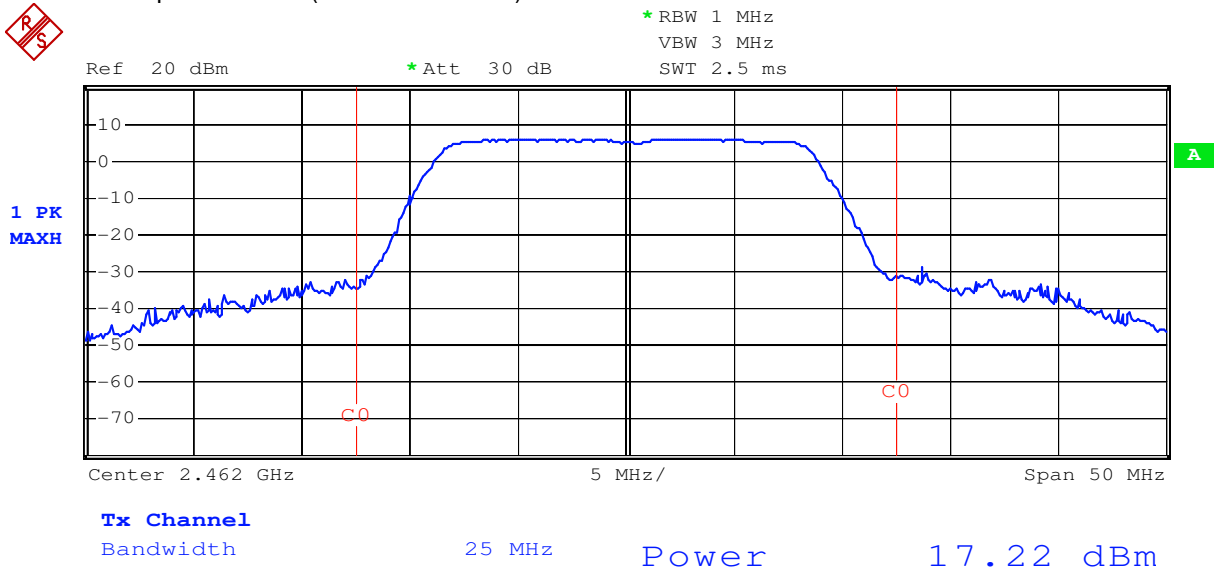




Peak Power Output Data Plot(CH 6 2437MHz)

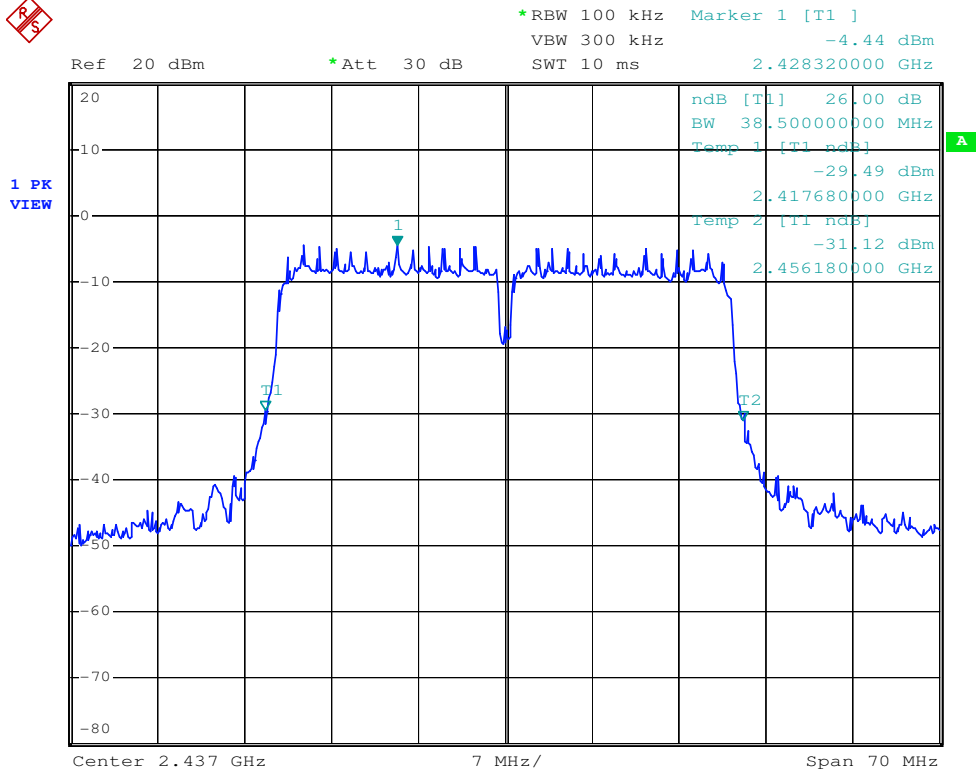
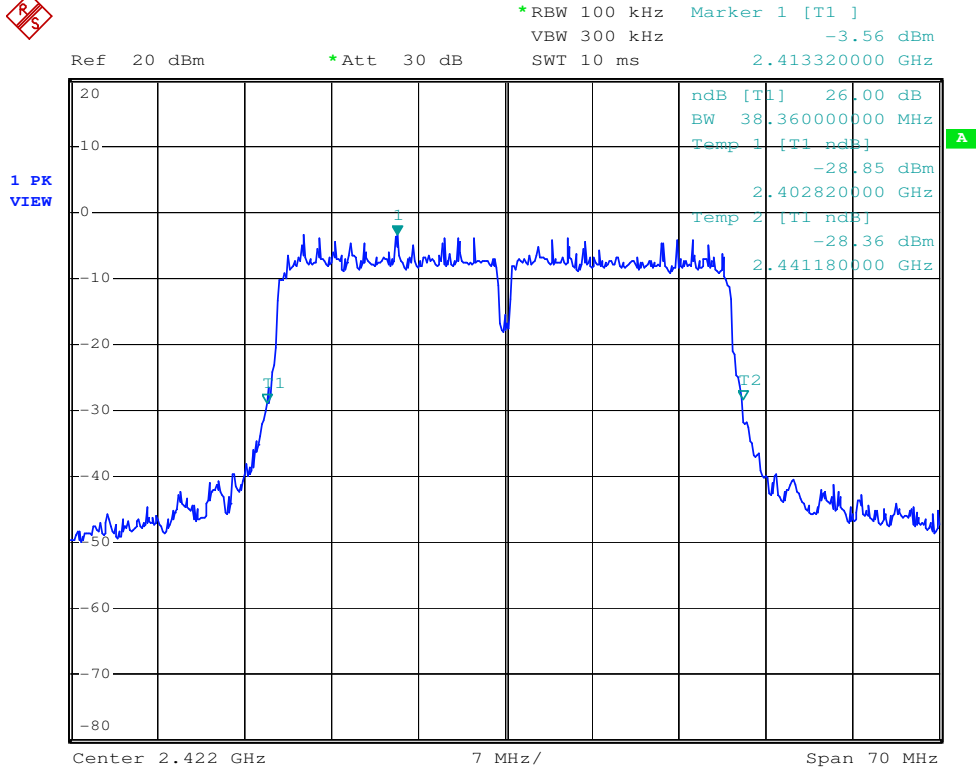


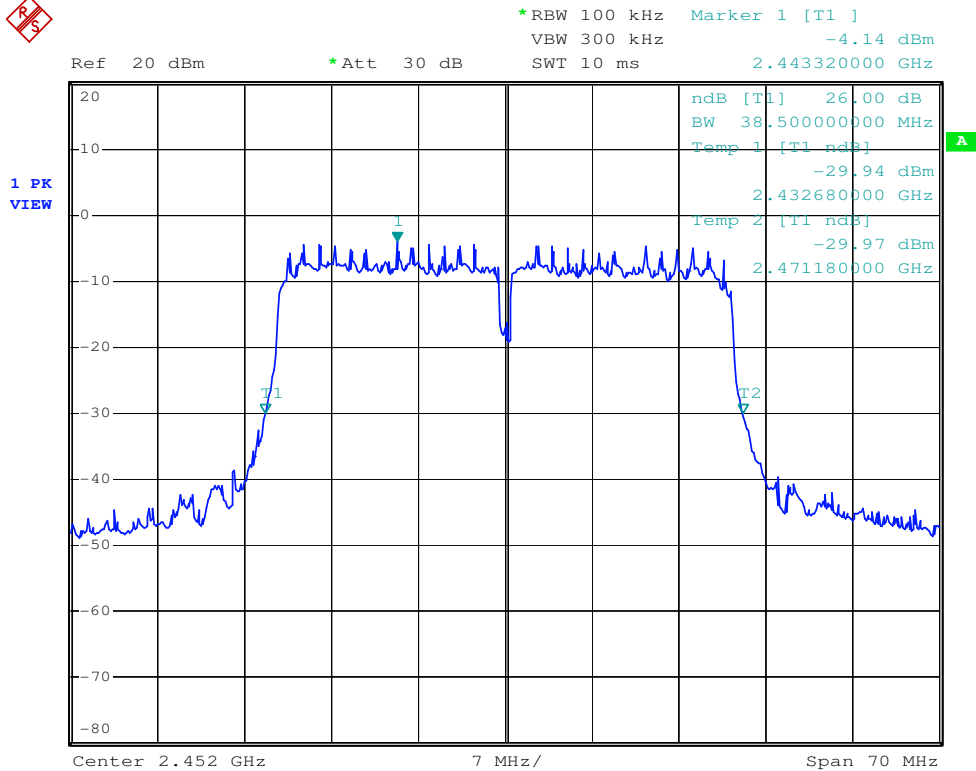
Peak Power Output Data Plot(CH 11 2462MHz)



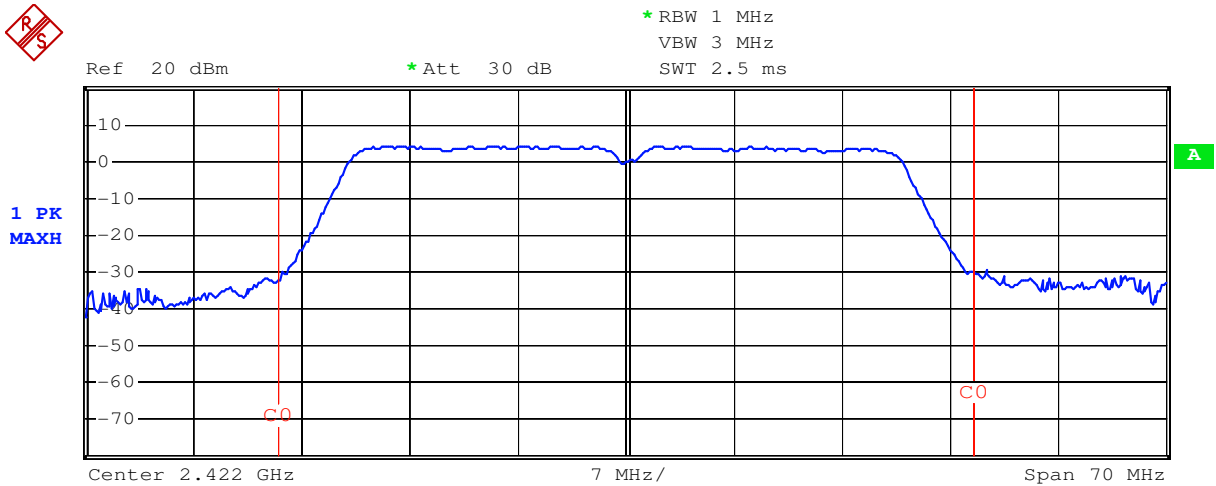
Peak Power Output Data Plot 802.11n 2.4G Band (40MHz BW) 6.5Mbps (Chain 100)

26dB Bandwidth





Peak Power Output Data Plot(CH 1 2422MHz)



Tx Channel

Bandwidth

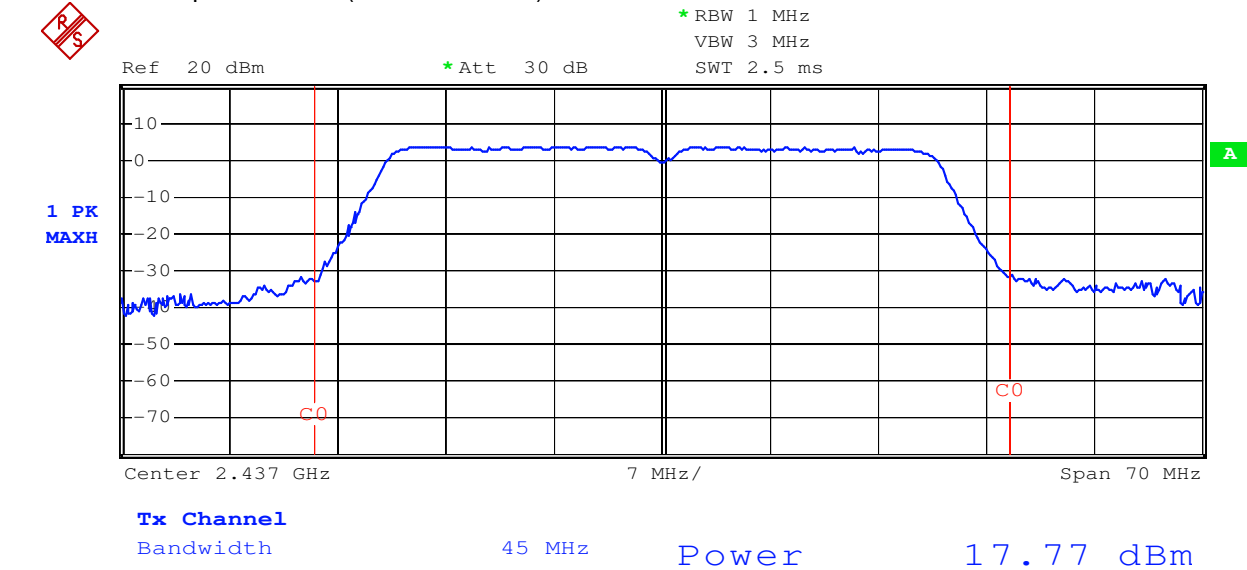
45 MHz

Power

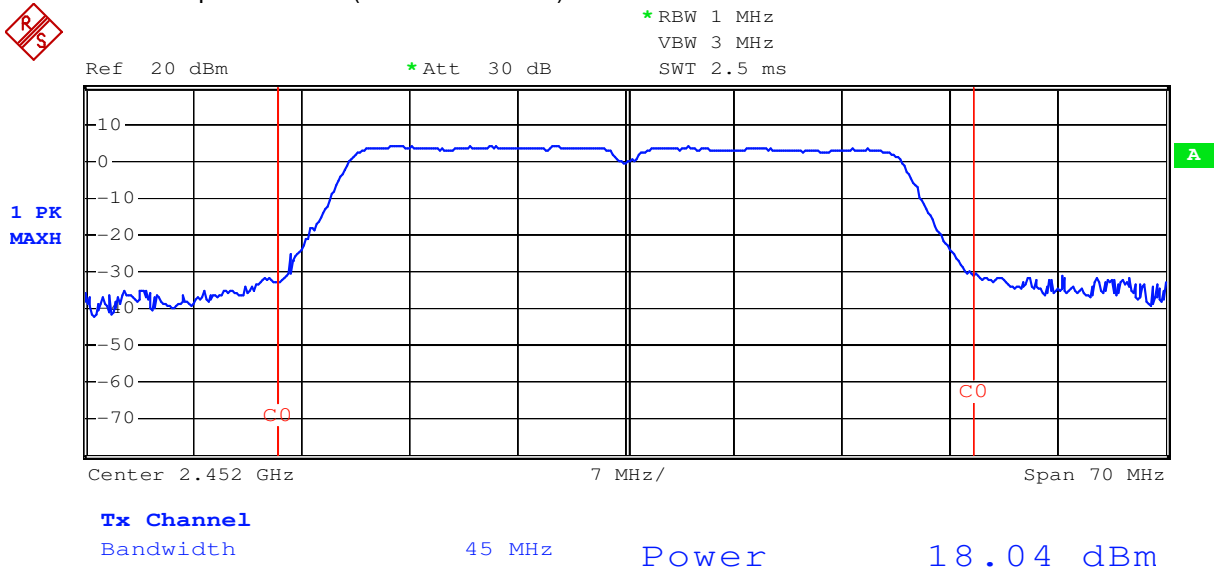
18.27 dBm



Peak Power Output Data Plot(CH 6 2437MHz)



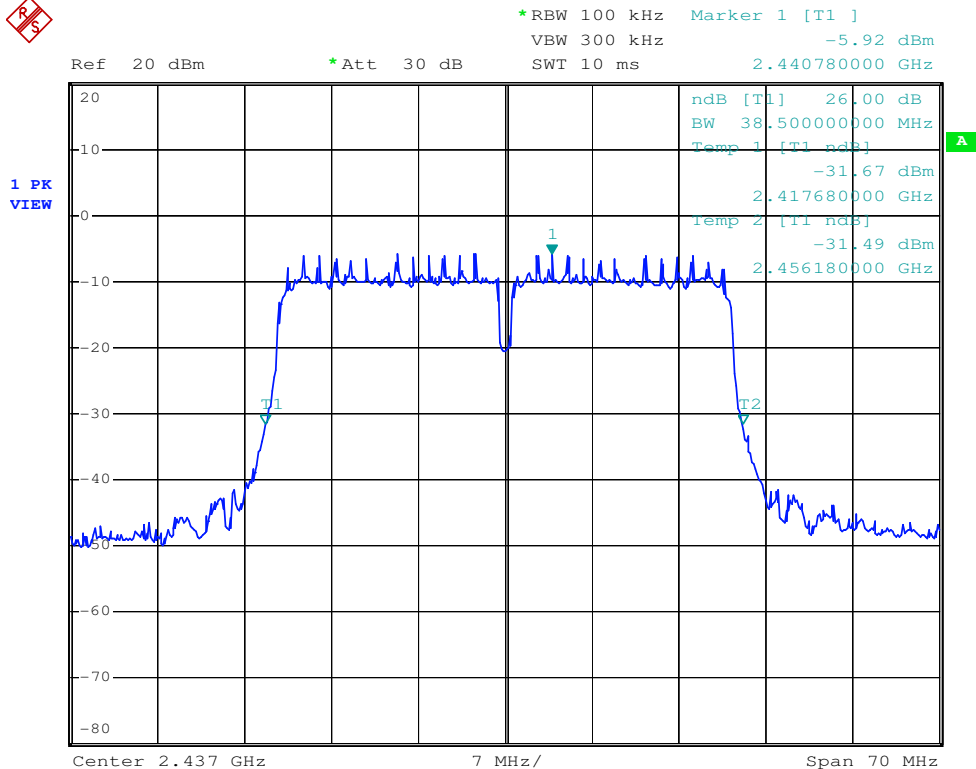
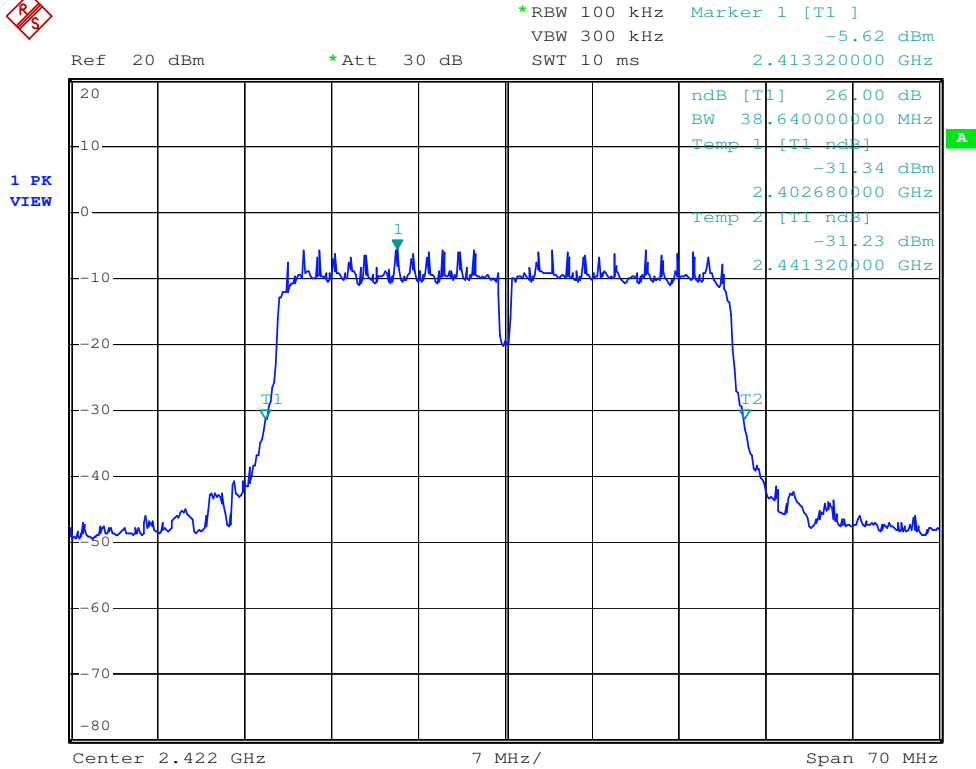
Peak Power Output Data Plot(CH 11 2452MHz)

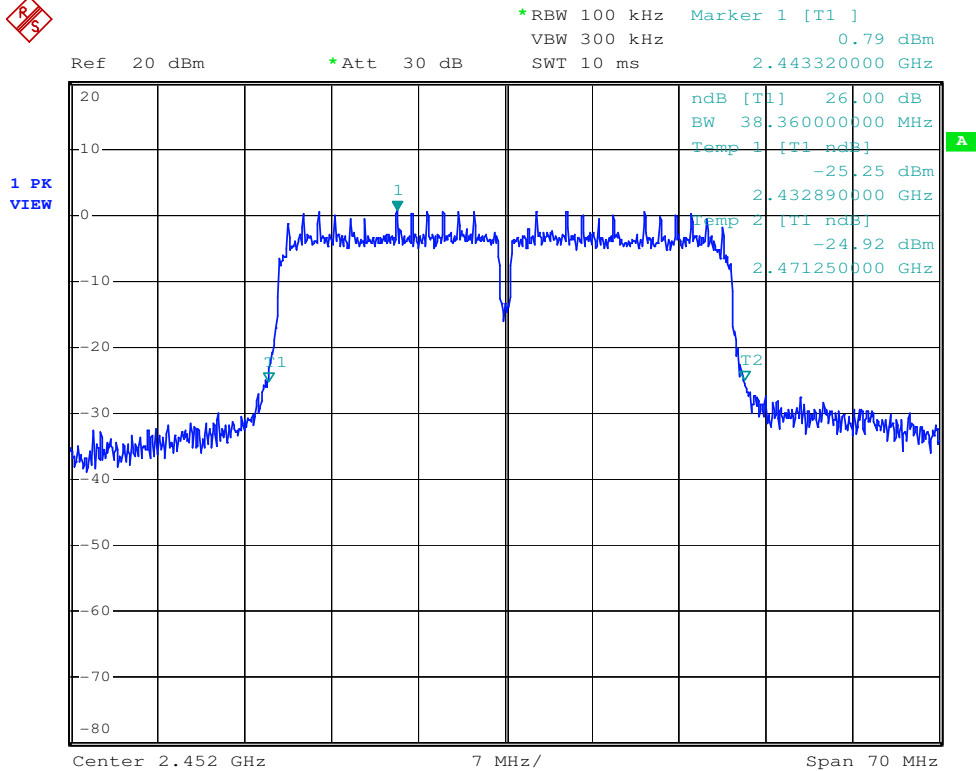




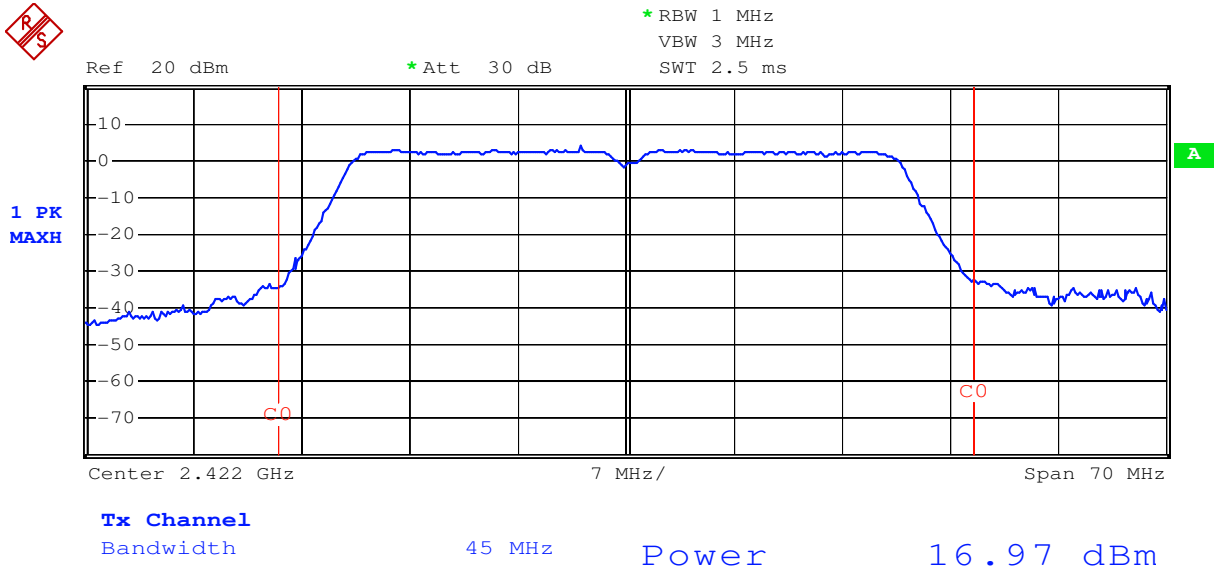
Peak Power Output Data Plot 802.11n 2.4G Band (40MHz BW) 6.5Mbps (Chain 010)

26dB Bandwidth





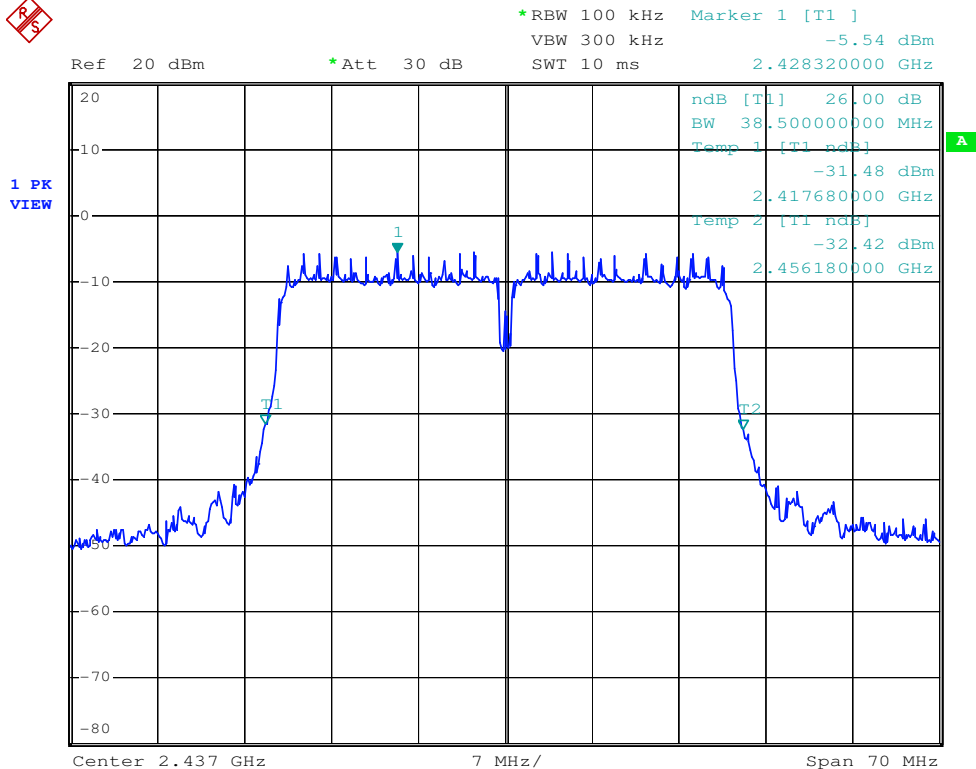
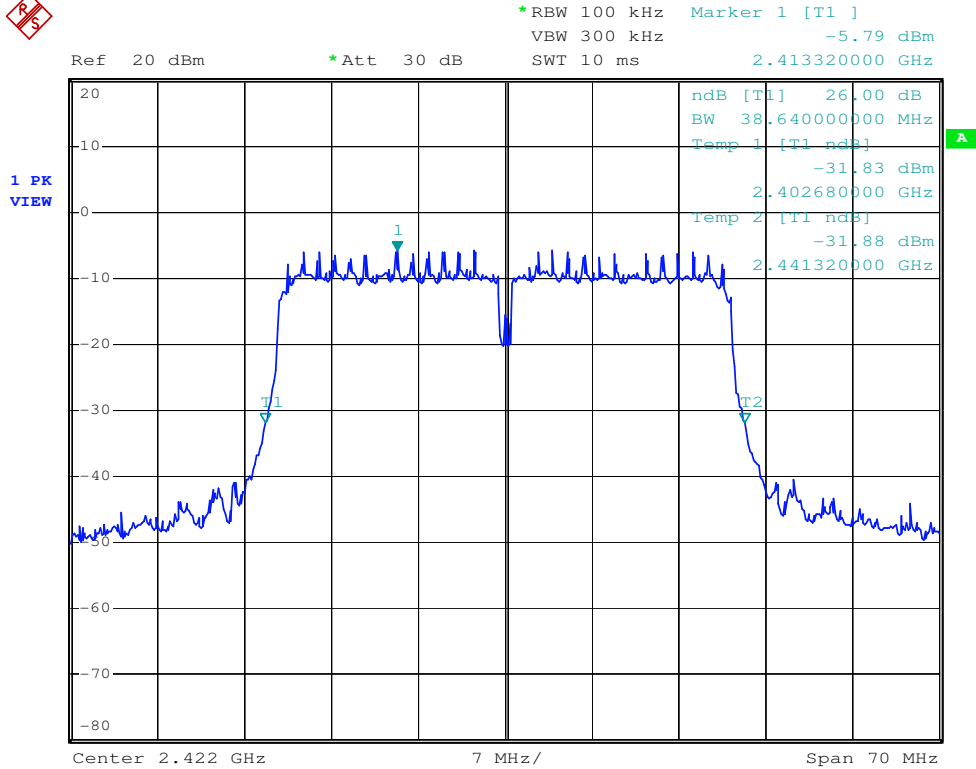
Peak Power Output Data Plot(CH 1 2422MHz)

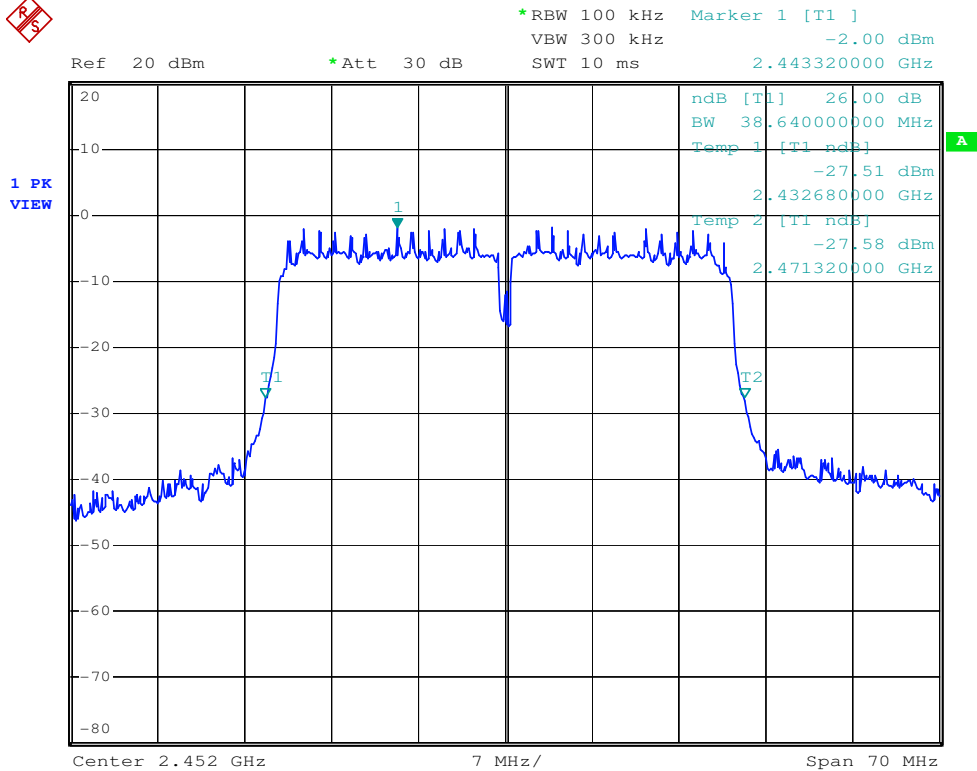




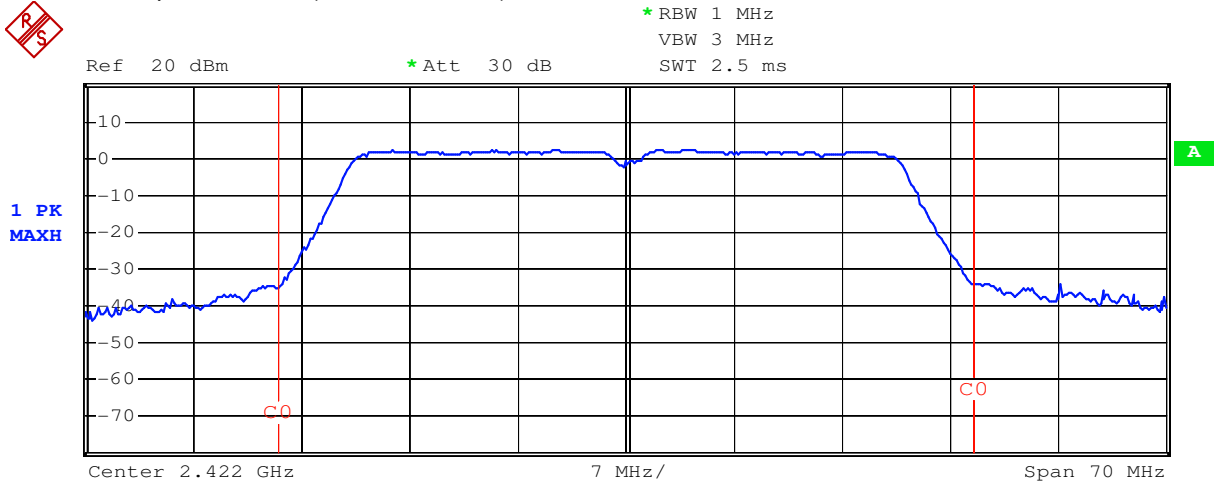
Peak Power Output Data Plot 802.11n 2.4G Band (40MHz BW) 6.5Mbps (Chain 001)

26dB Bandwidth





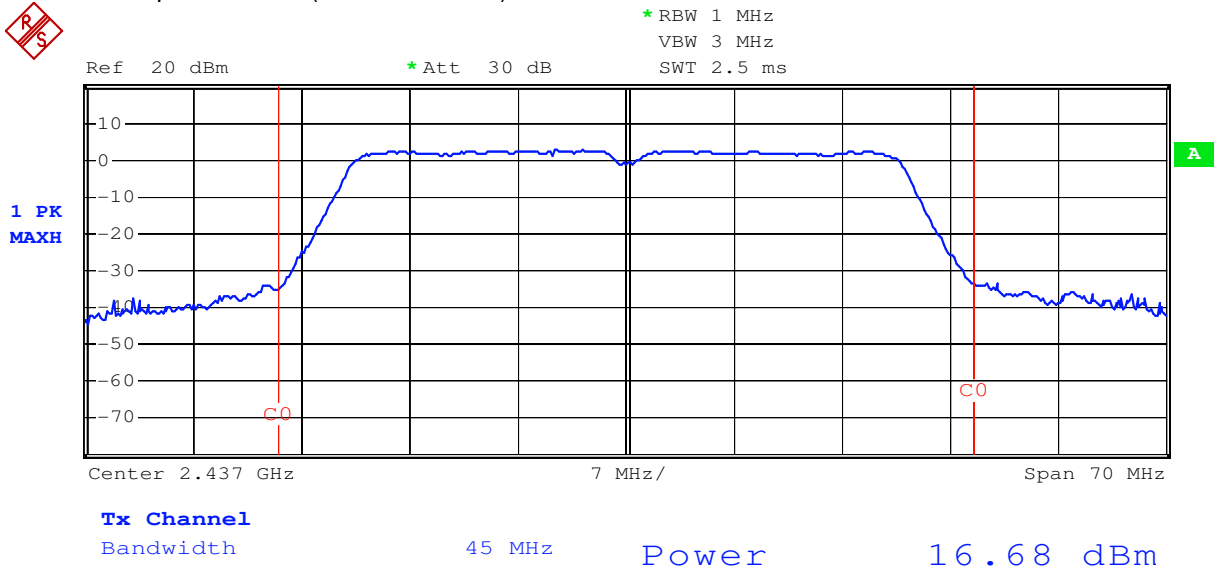
Peak Power Output Data Plot(CH 1 2422MHz)



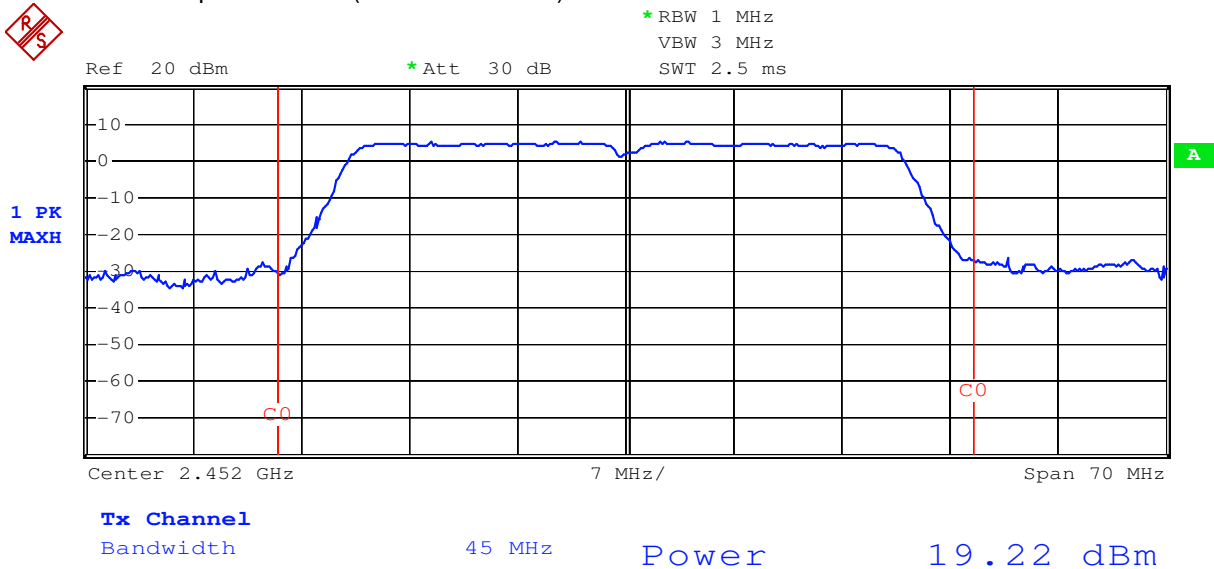
Tx Channel
Bandwidth 45 MHz Power 16.38 dBm



Peak Power Output Data Plot(CH 6 2437MHz)

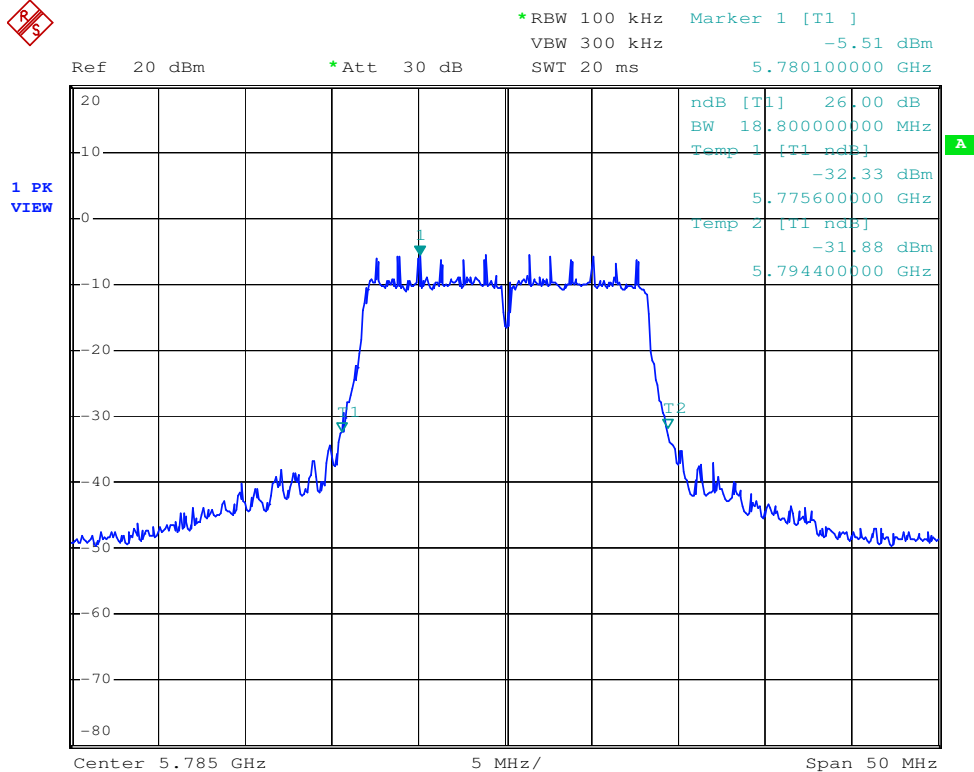
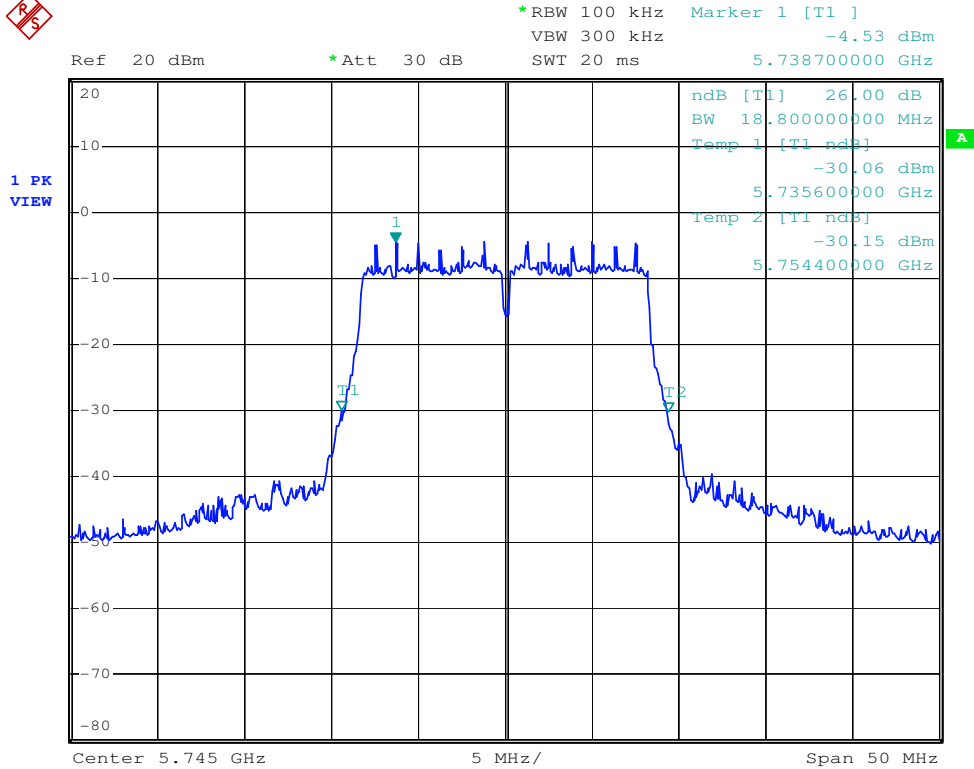


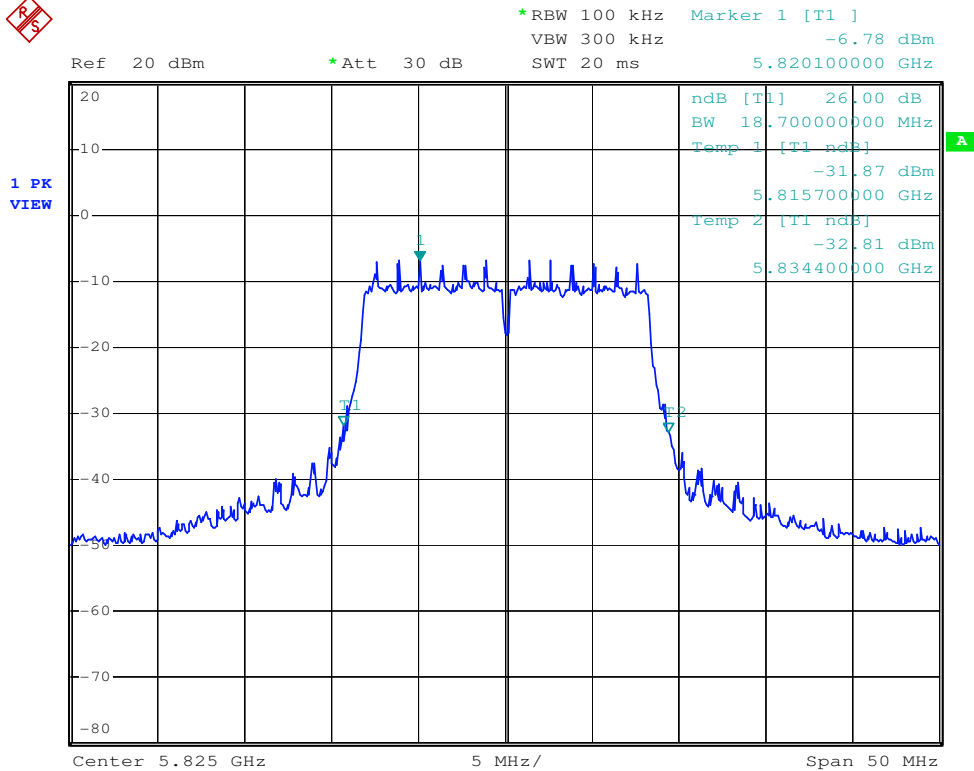
Peak Power Output Data Plot(CH 11 2452MHz)



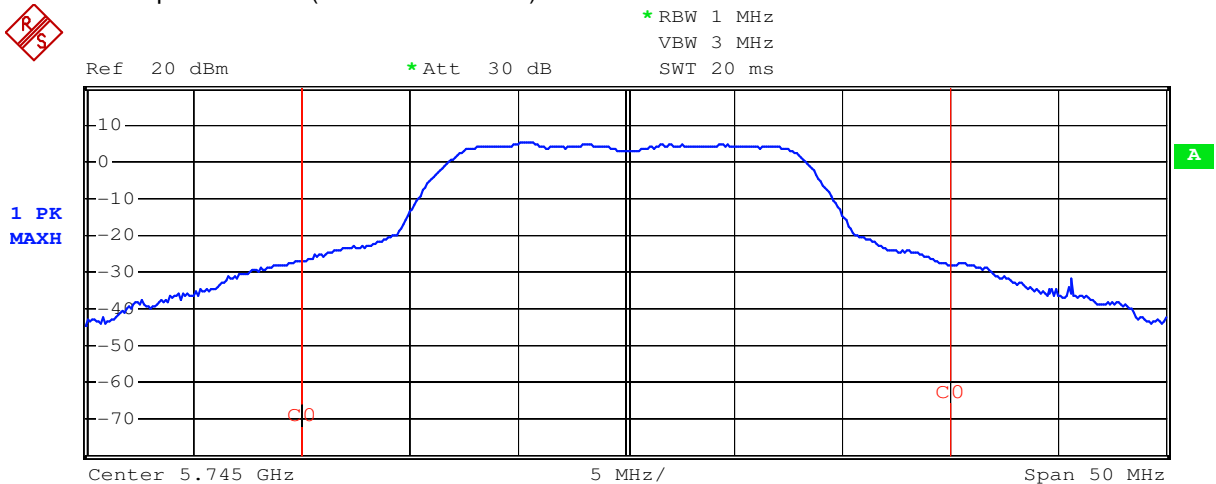
Peak Power Output Data Plot 802.11a 6.5Mbps (Chain 100)

26dB Bandwidth





Peak Power Output Data Plot(CH 149 5745MHz)



Tx Channel

Bandwidth

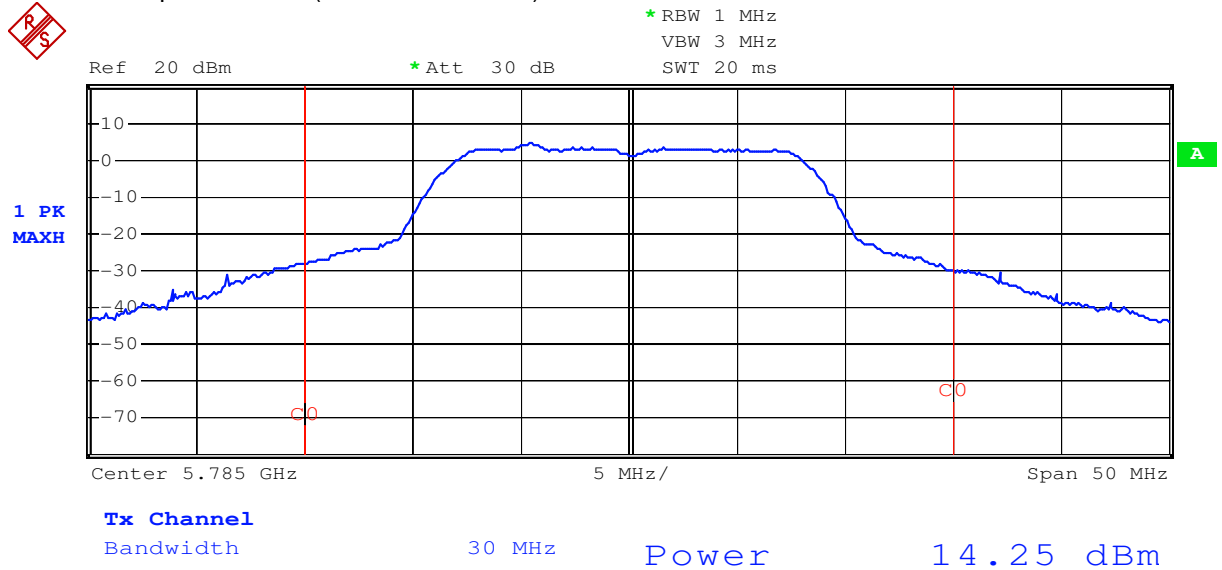
30 MHz

Power

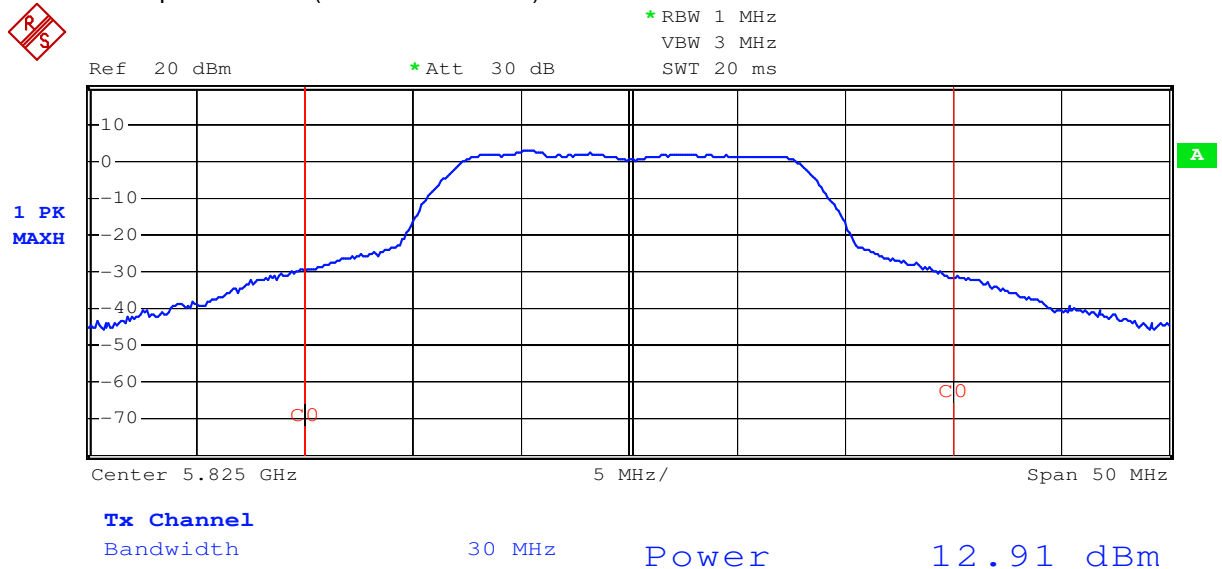
15.49 dBm



Peak Power Output Data Plot(CH 157 5785MHz)



Peak Power Output Data Plot(CH 165 5825MHz)

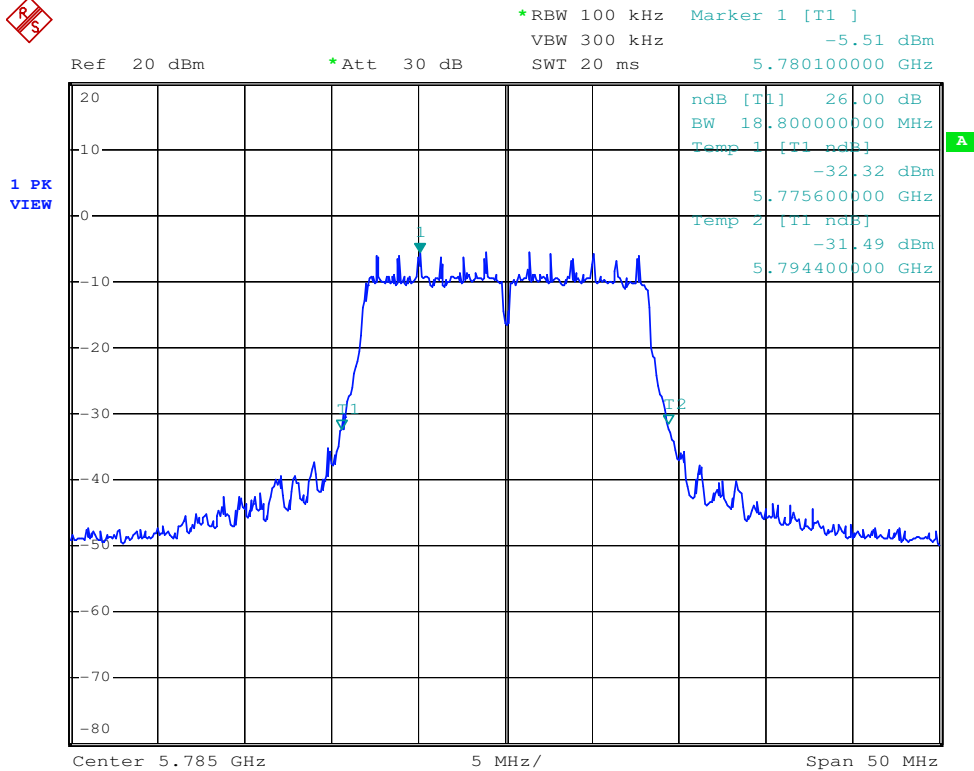
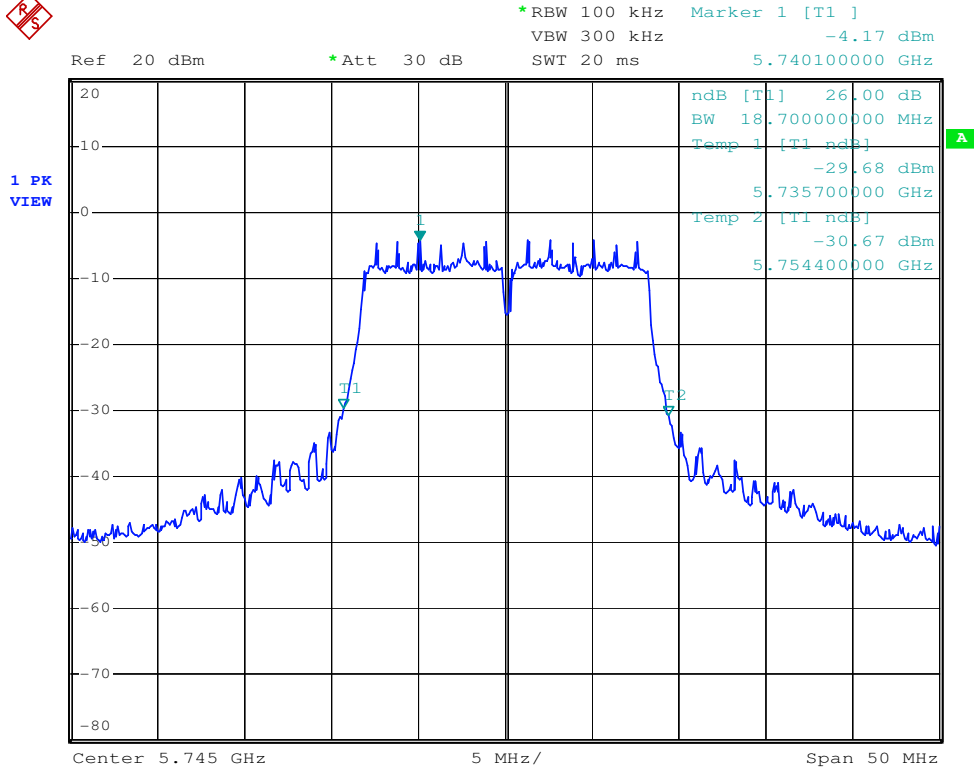


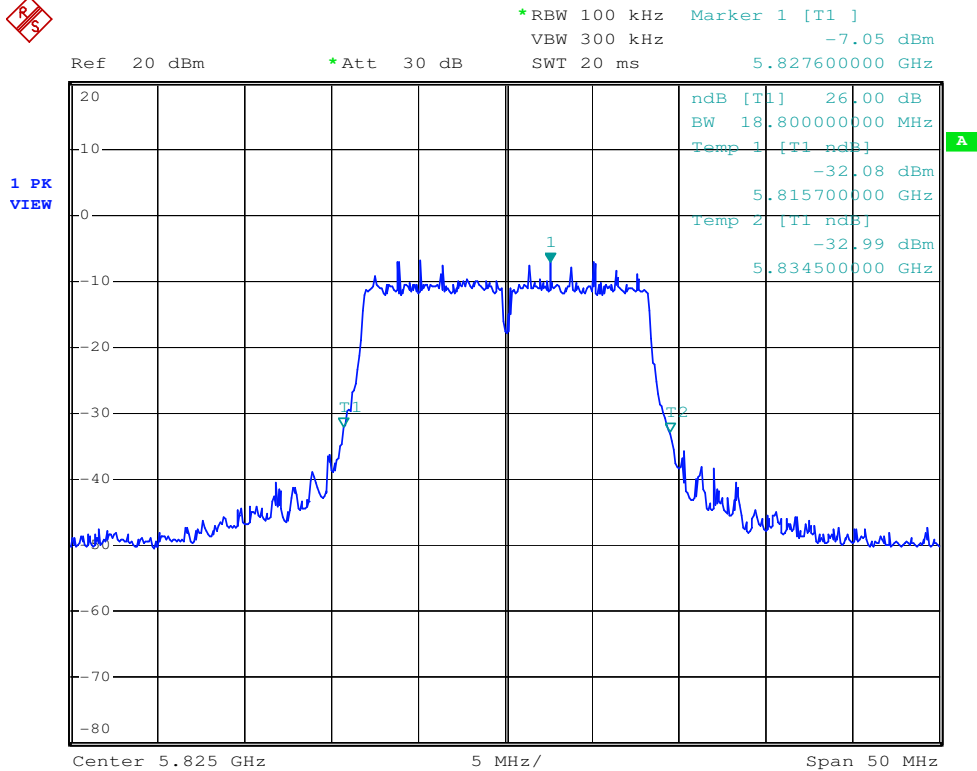
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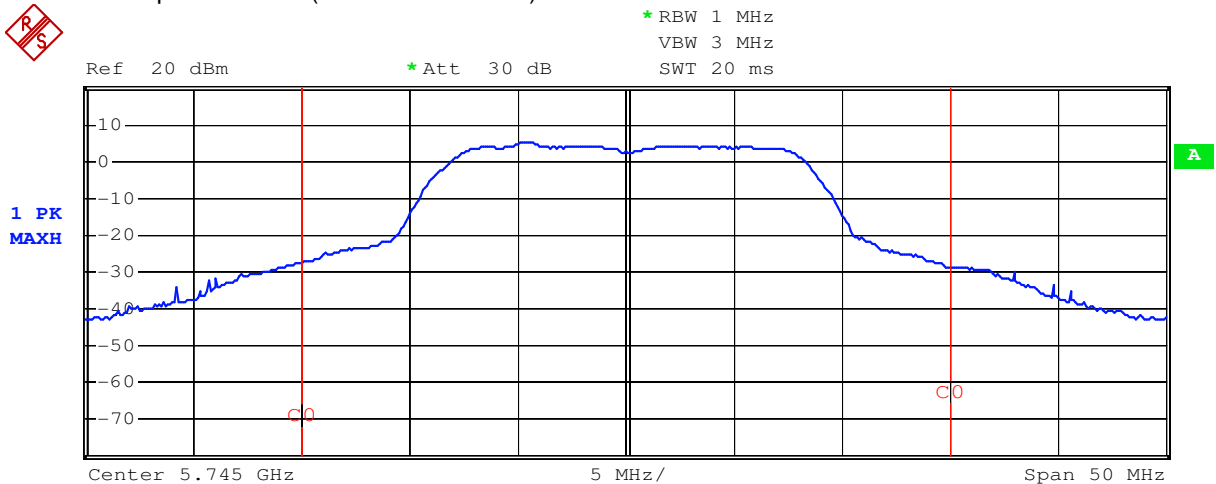
Peak Power Output Data Plot 802.11a 6.5Mbps (Chain 010)

26dB Bandwidth





Peak Power Output Data Plot(CH 149 5745MHz)



Tx Channel

Bandwidth

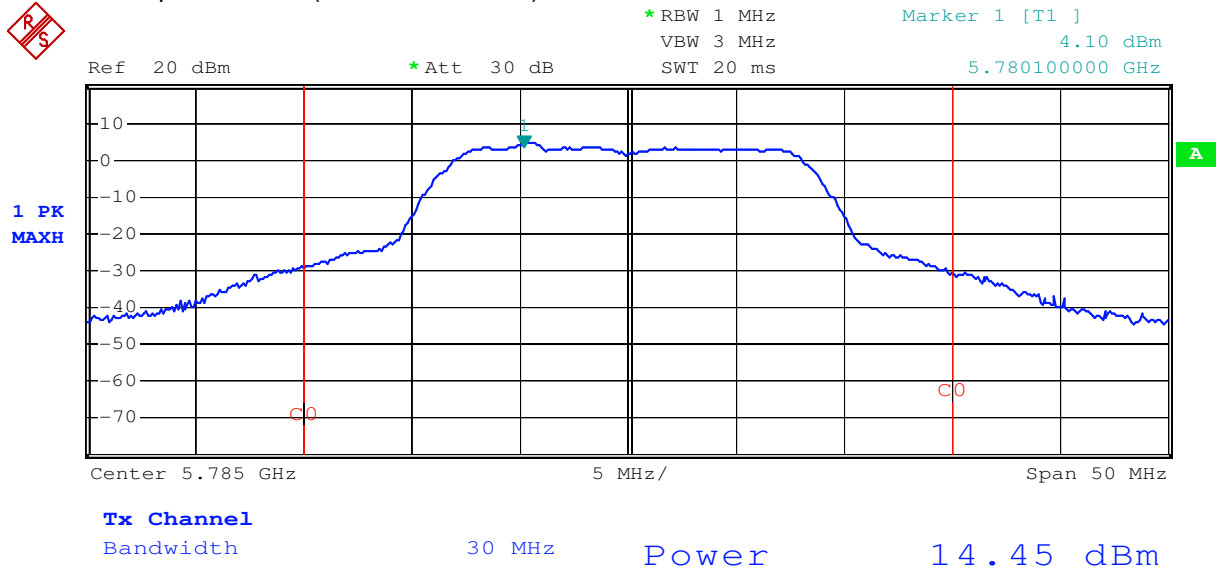
30 MHz

Power

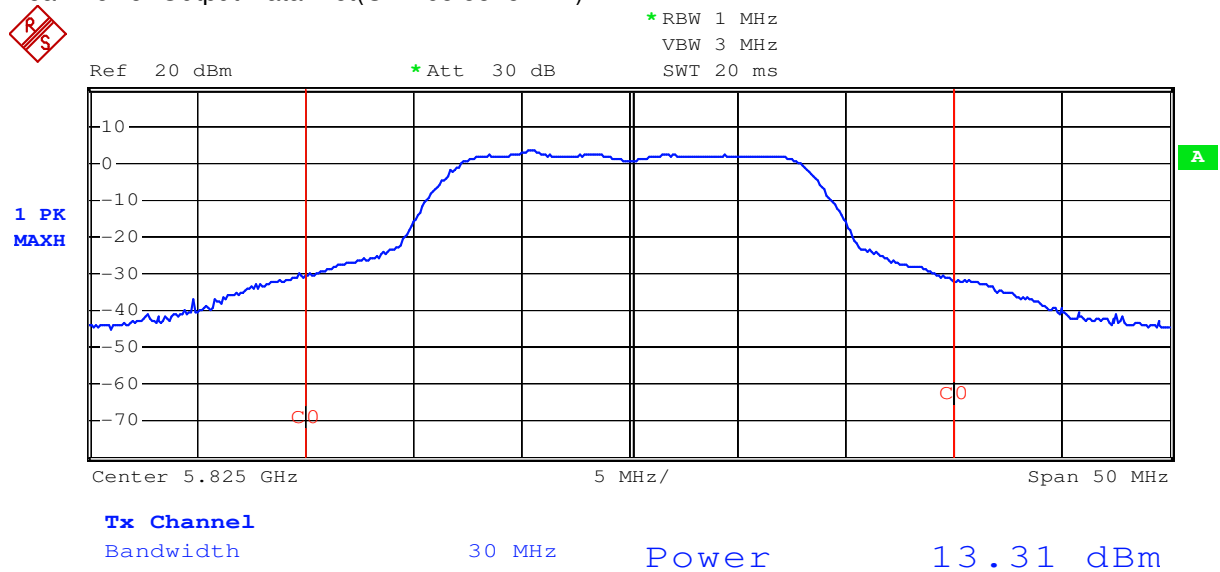
15.31 dBm



Peak Power Output Data Plot(CH 157 5785MHz)



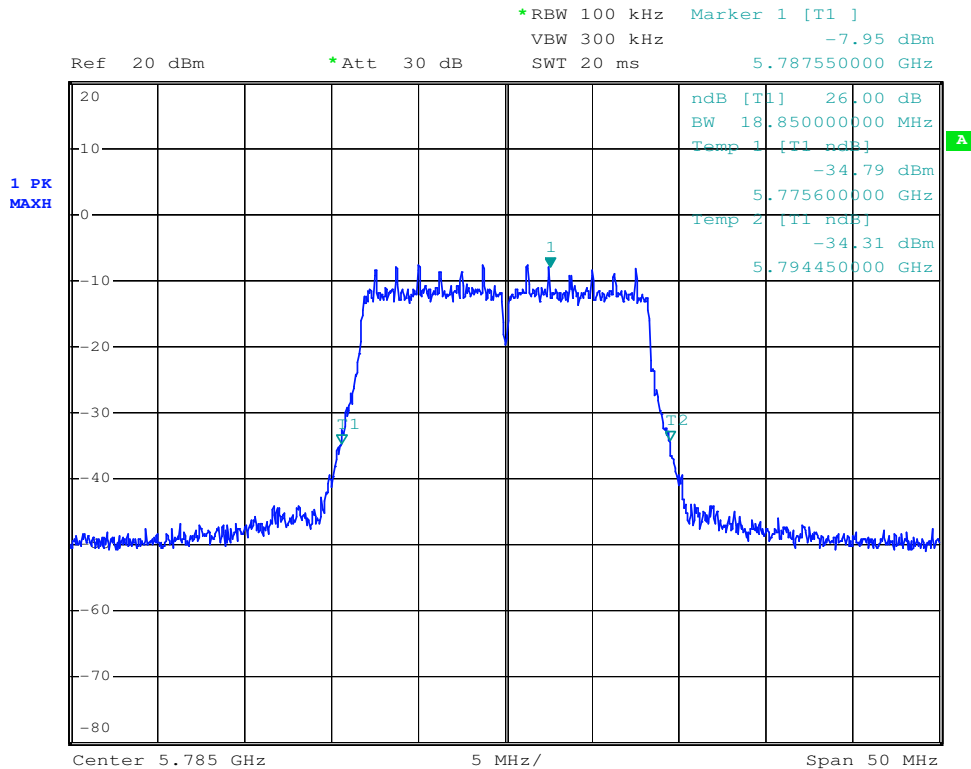
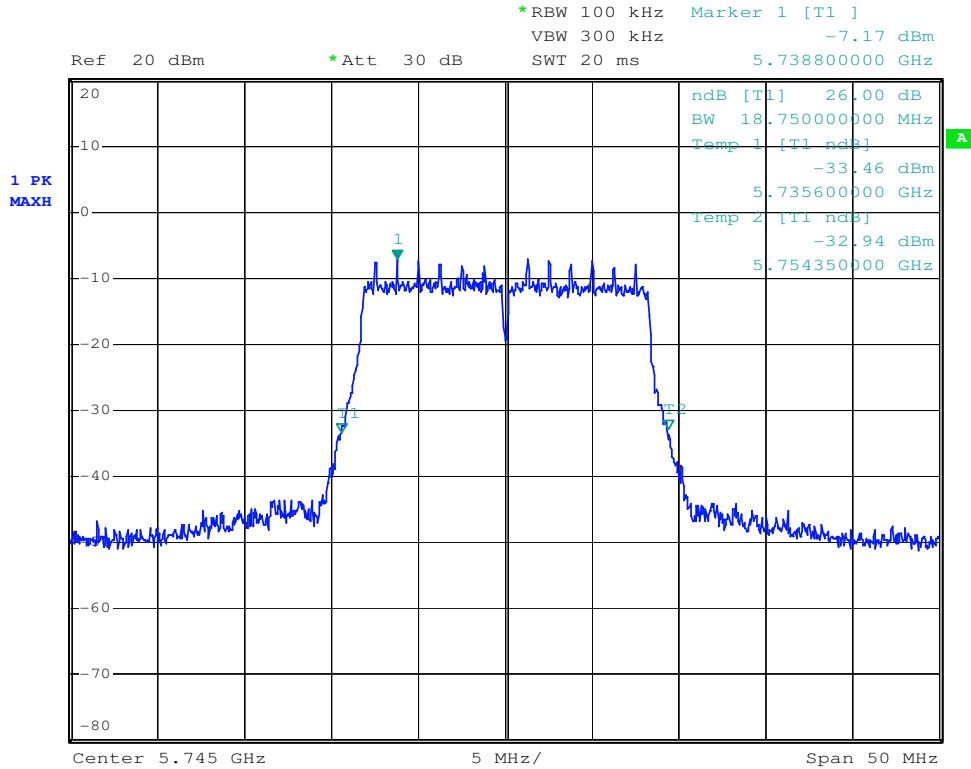
Peak Power Output Data Plot(CH 165 5825MHz)

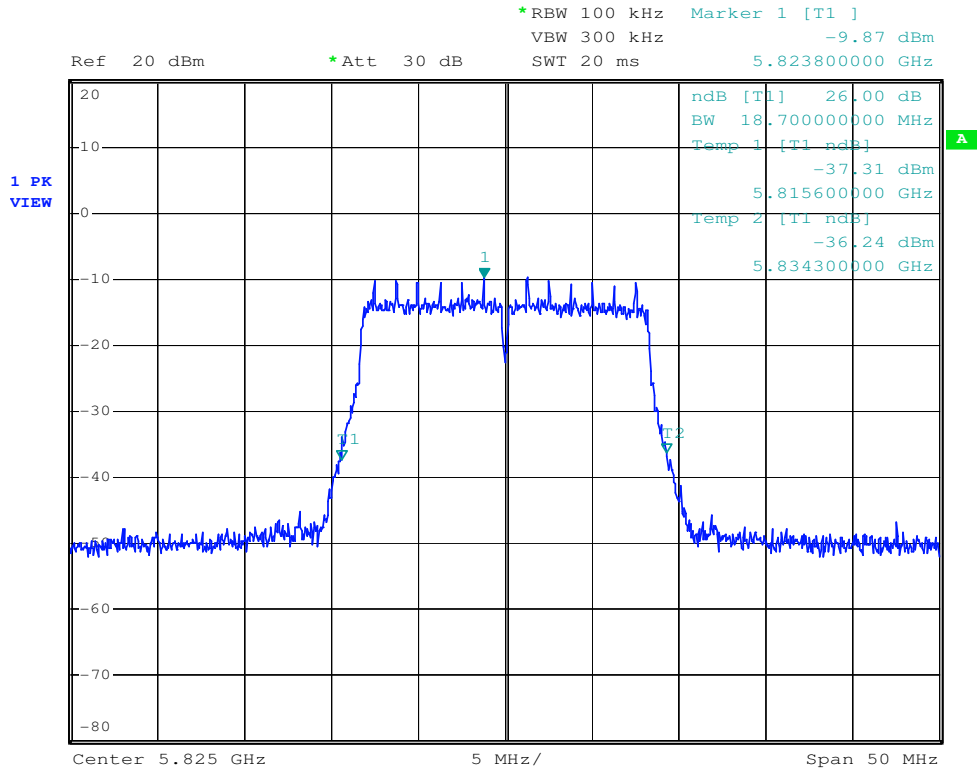




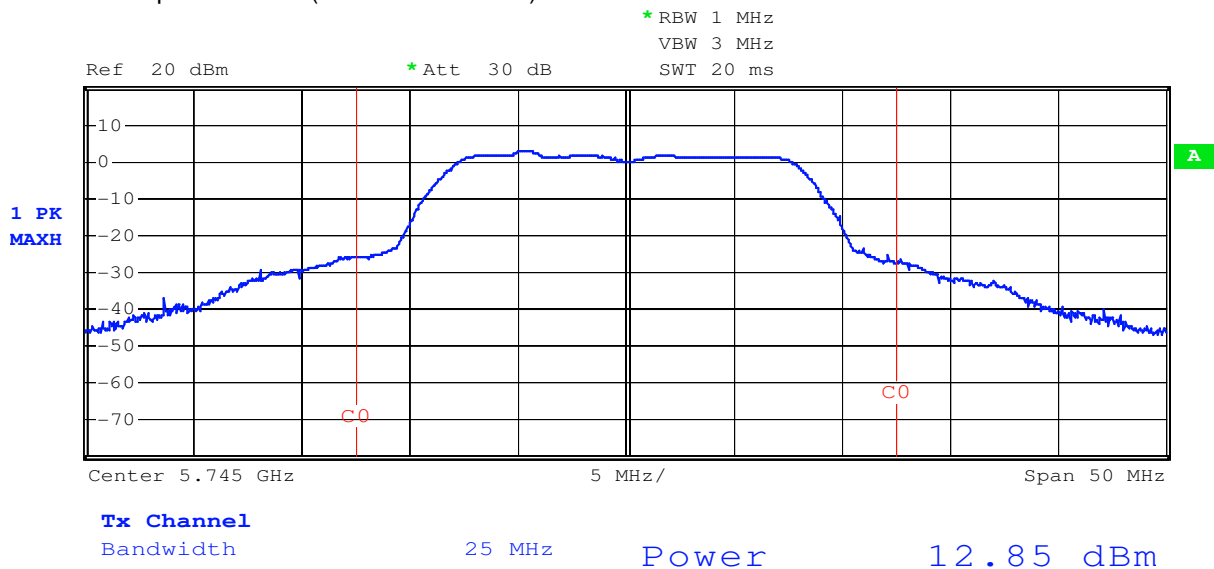
Peak Power Output Data Plot 802.11a 6.5Mbps (Chain 001)

26dB Bandwidth



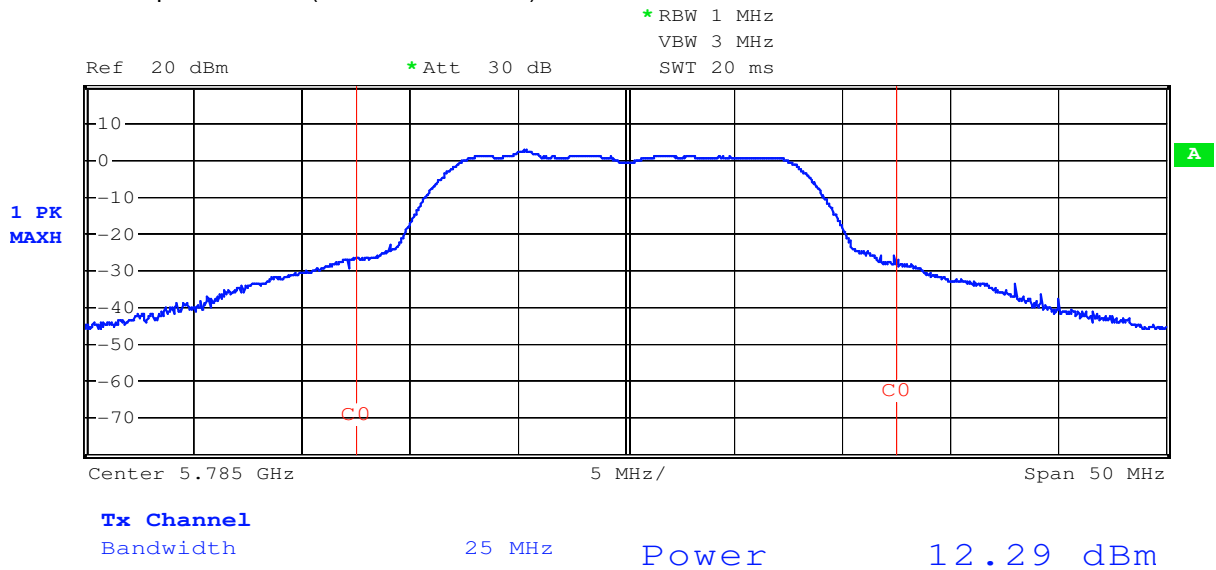


Peak Power Output Data Plot(CH 149 5745MHz)

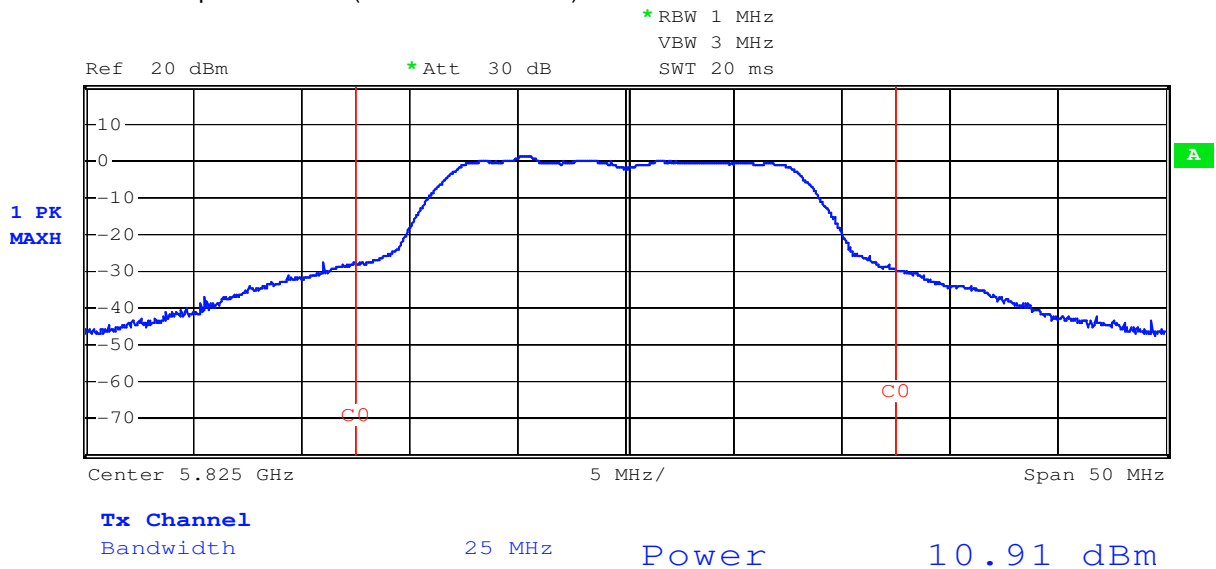




Peak Power Output Data Plot(CH 157 5785MHz)



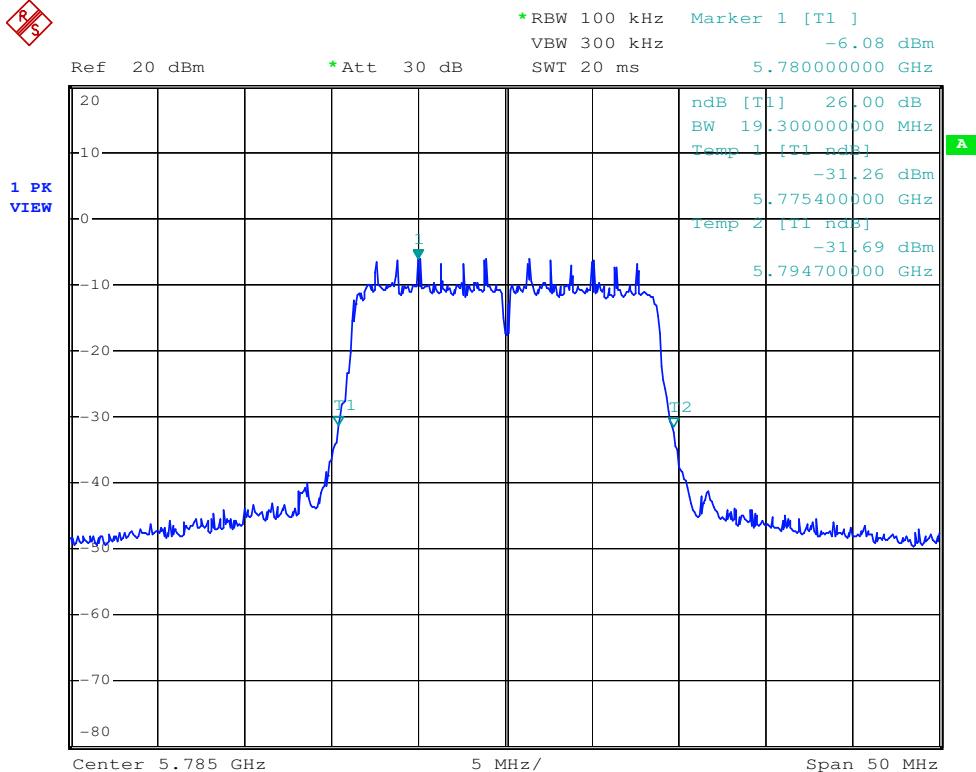
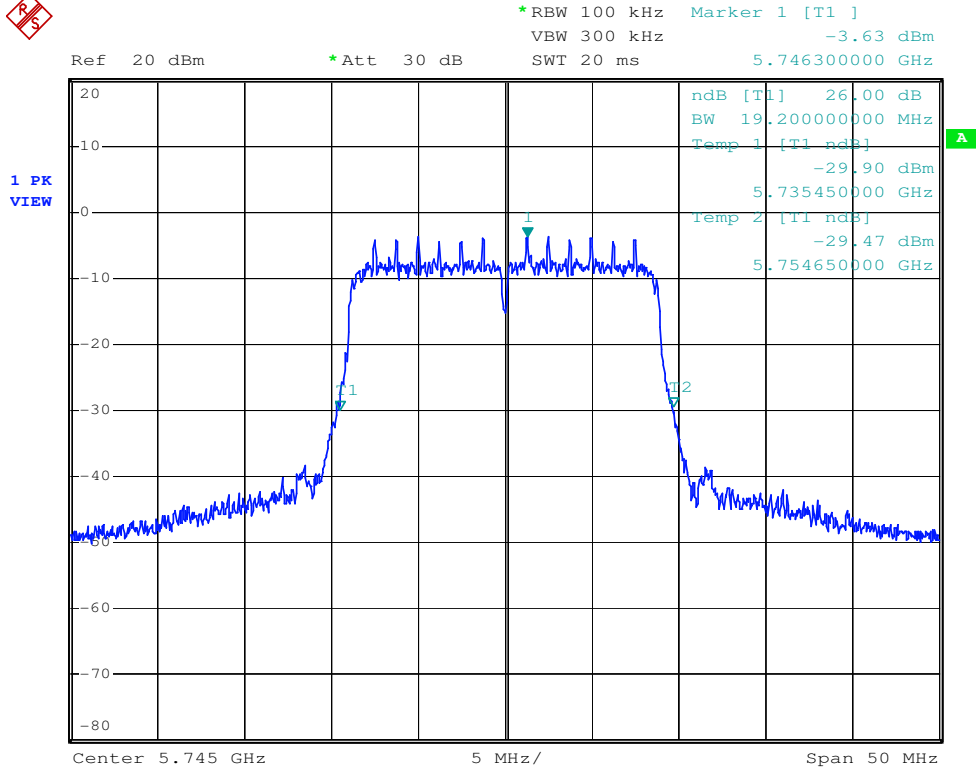
Peak Power Output Data Plot(CH 165 5825MHz)

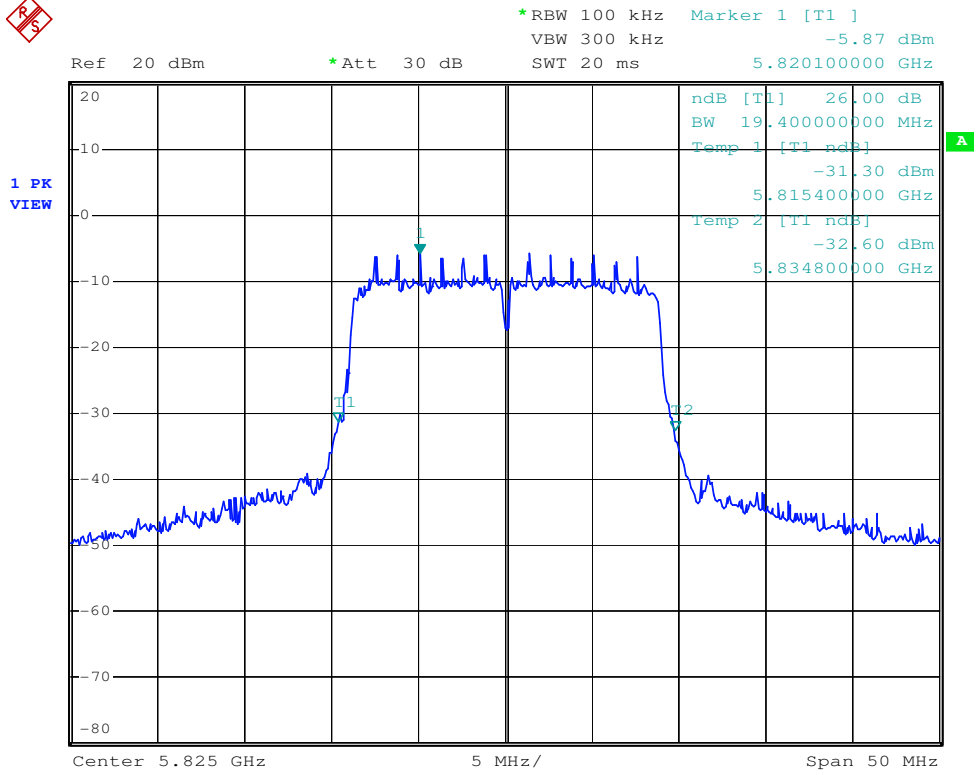




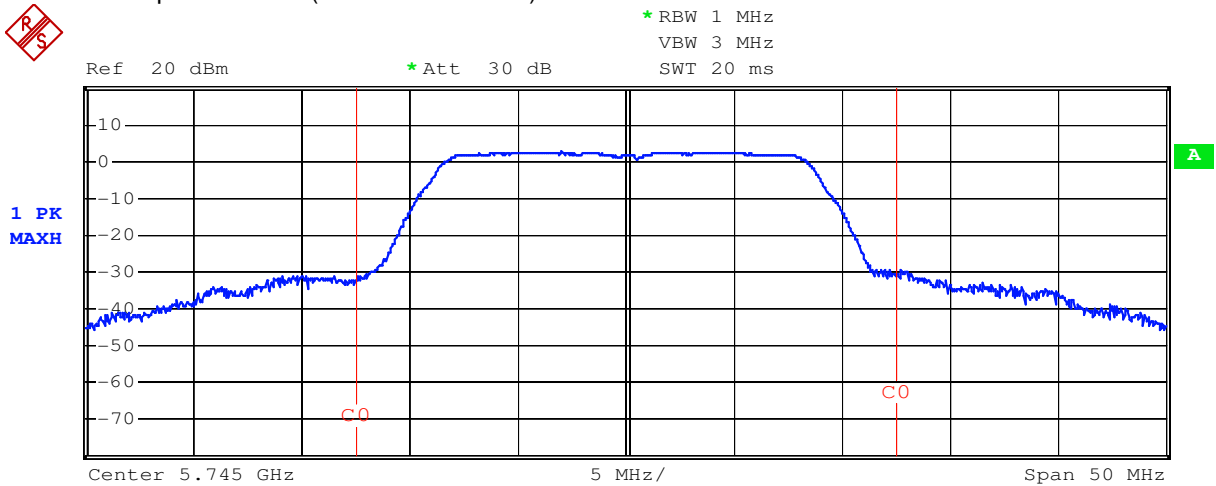
Peak Power Output Data Plot 802.11n 5G Band (20MHz BW) 6.5Mbps (Chain 100)

26dB Bandwidth





Peak Power Output Data Plot(CH 149 5745MHz)



Tx Channel

Bandwidth

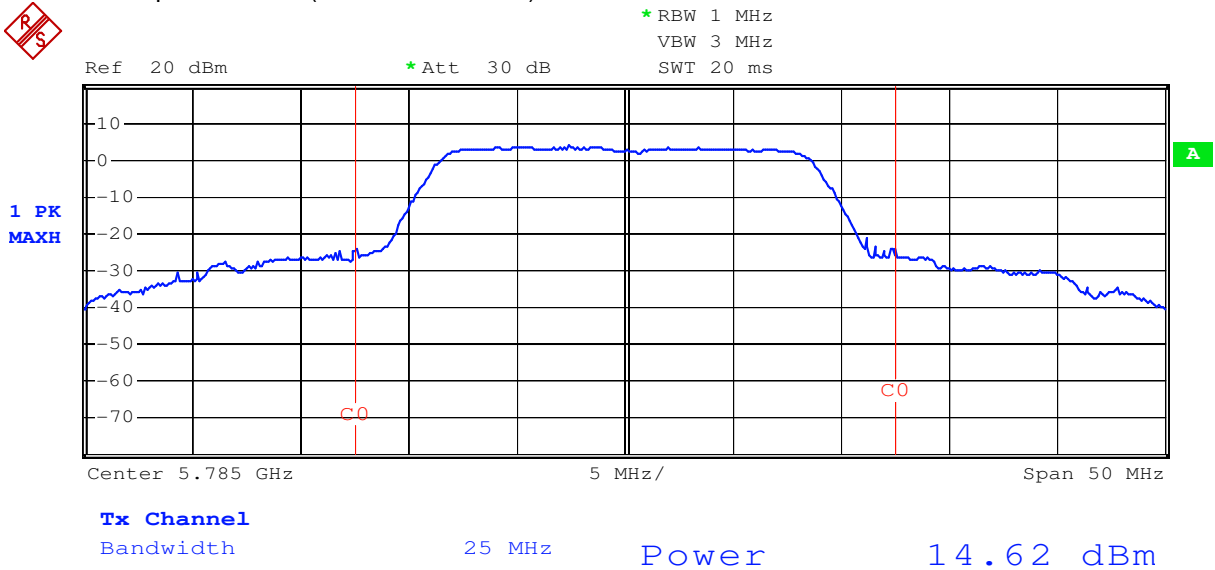
25 MHz

Power

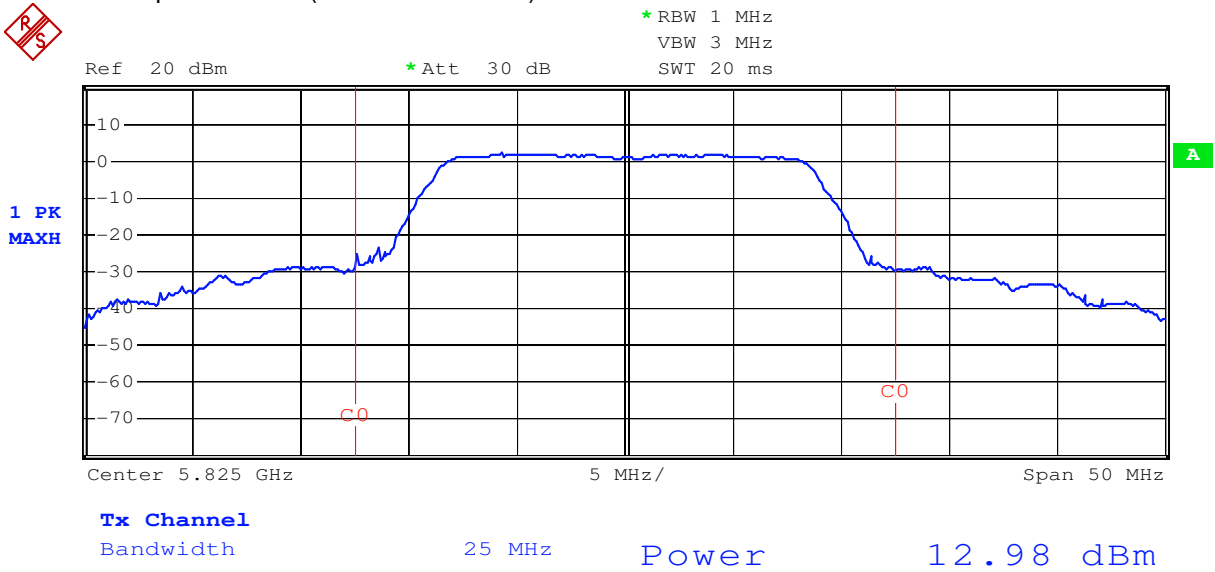
13.68 dBm



Peak Power Output Data Plot(CH 157 5785MHz)

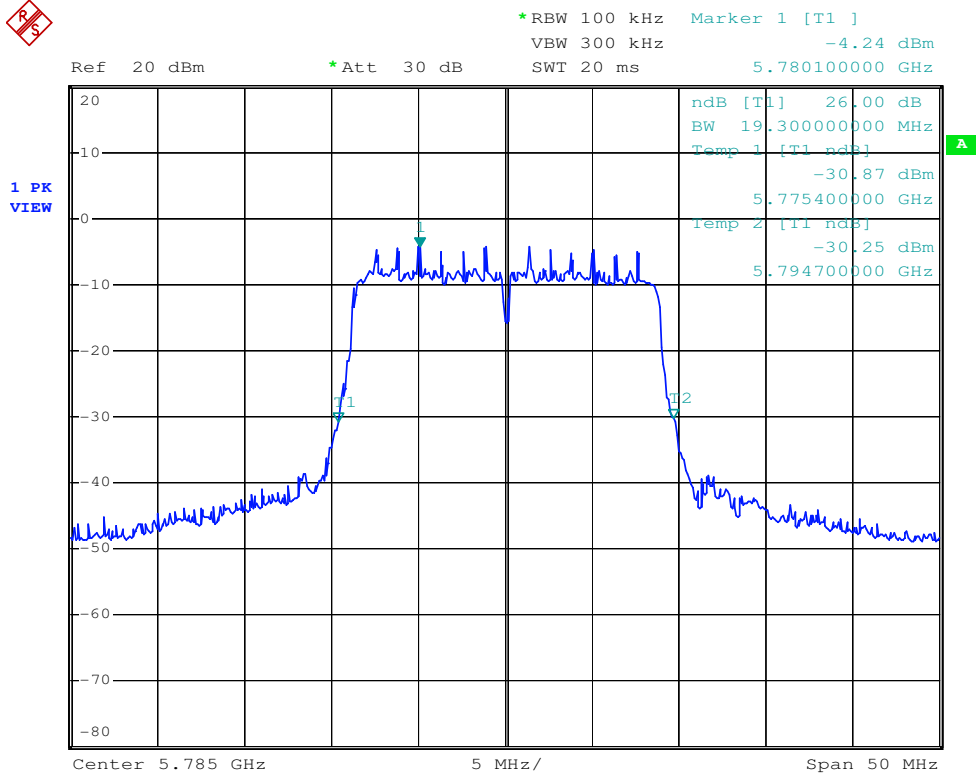
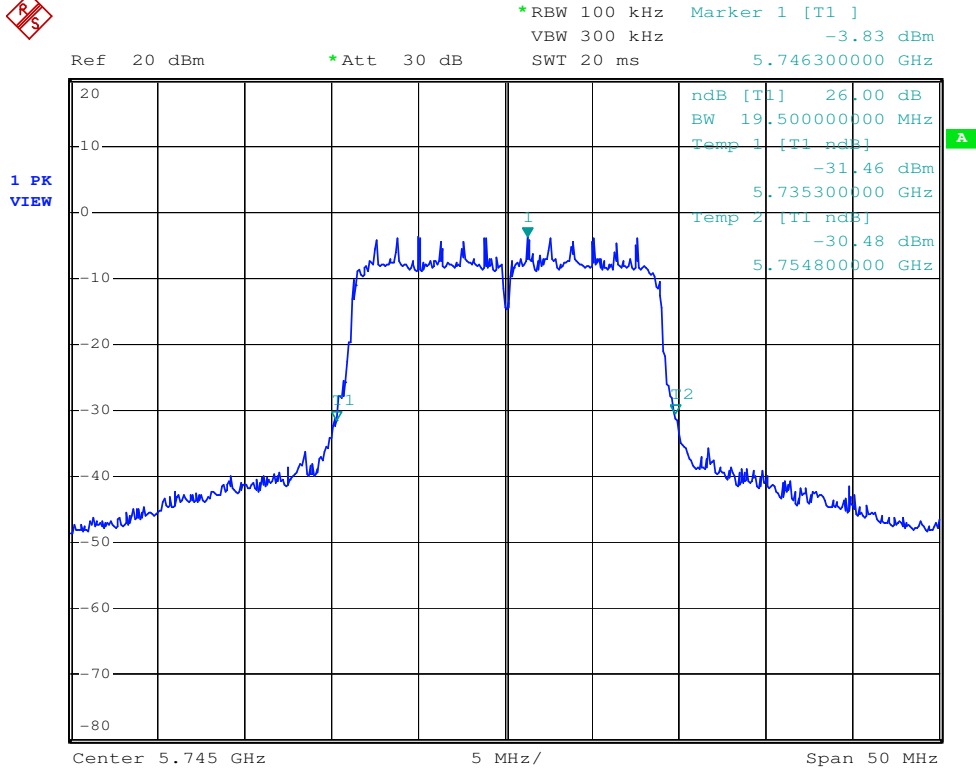


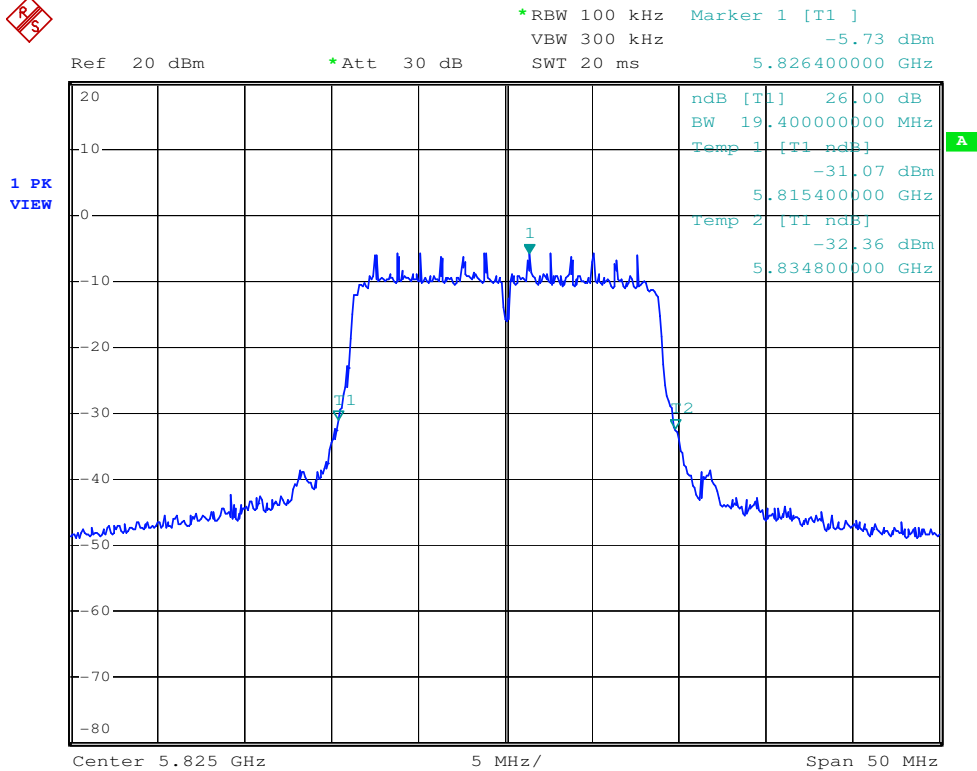
Peak Power Output Data Plot(CH 165 5825MHz)



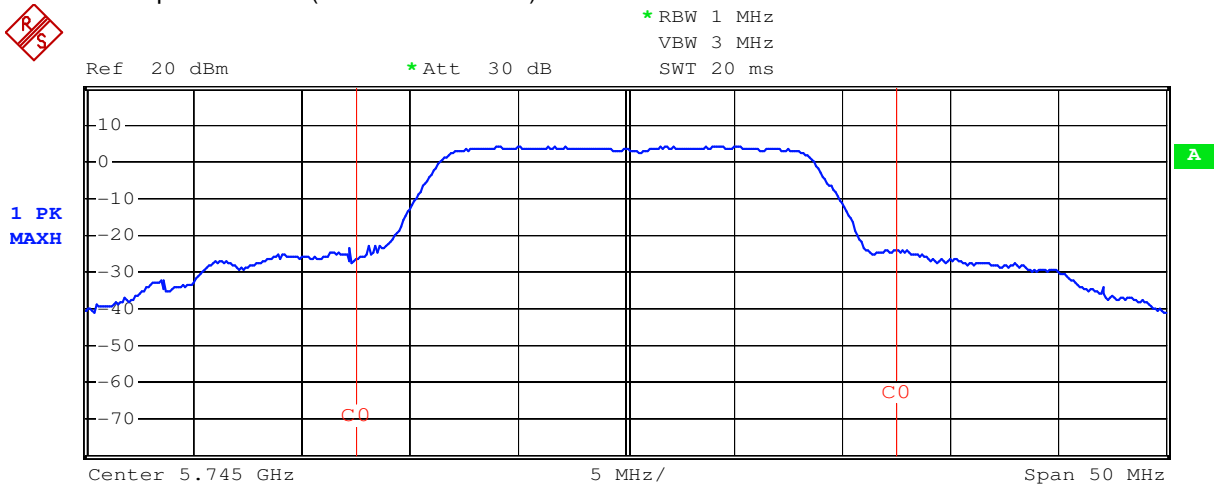
Peak Power Output Data Plot 802.11n 5G Band (20MHz BW) 6.5Mbps (Chain 010)

26dB Bandwidth





Peak Power Output Data Plot(CH 149 5745MHz)



Tx Channel

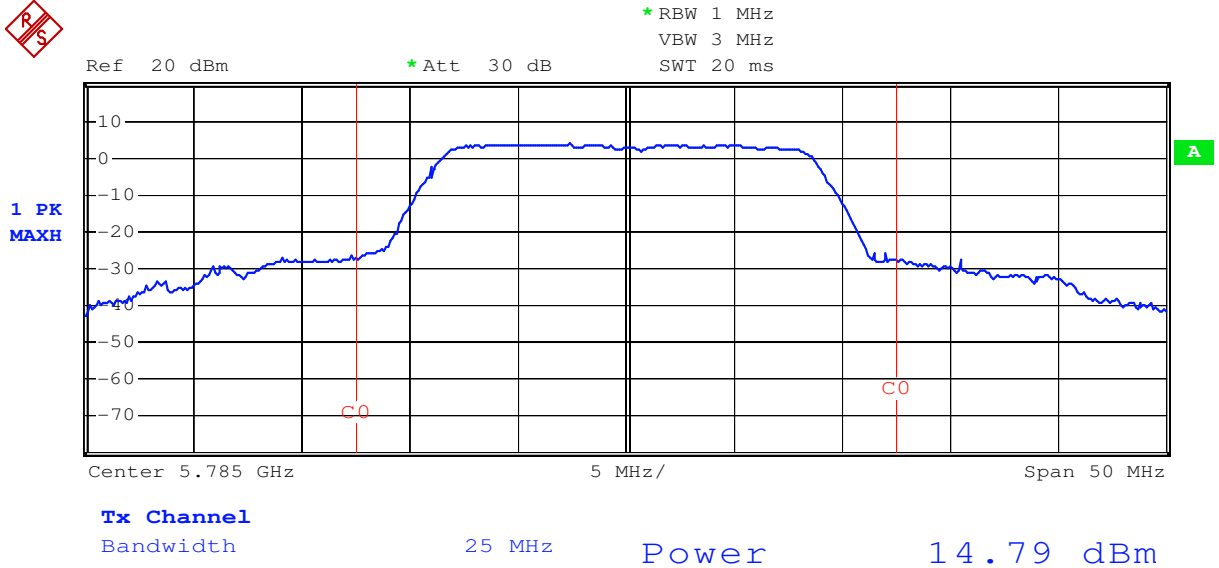
Bandwidth

25 MHz

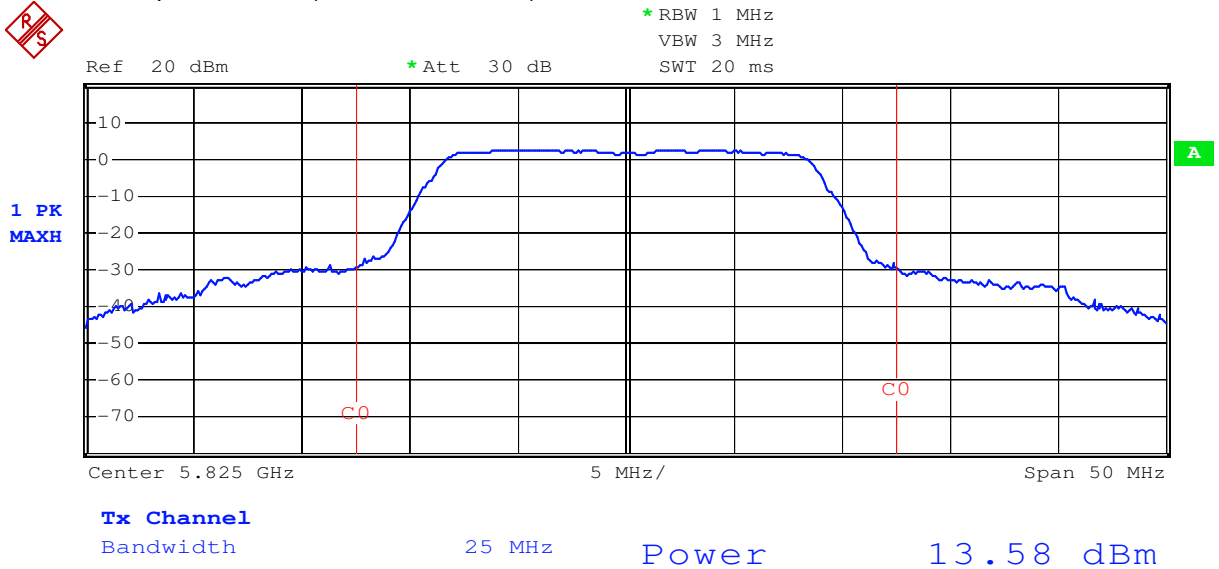
Power

15.19 dBm

Peak Power Output Data Plot(CH 157 5785MHz)

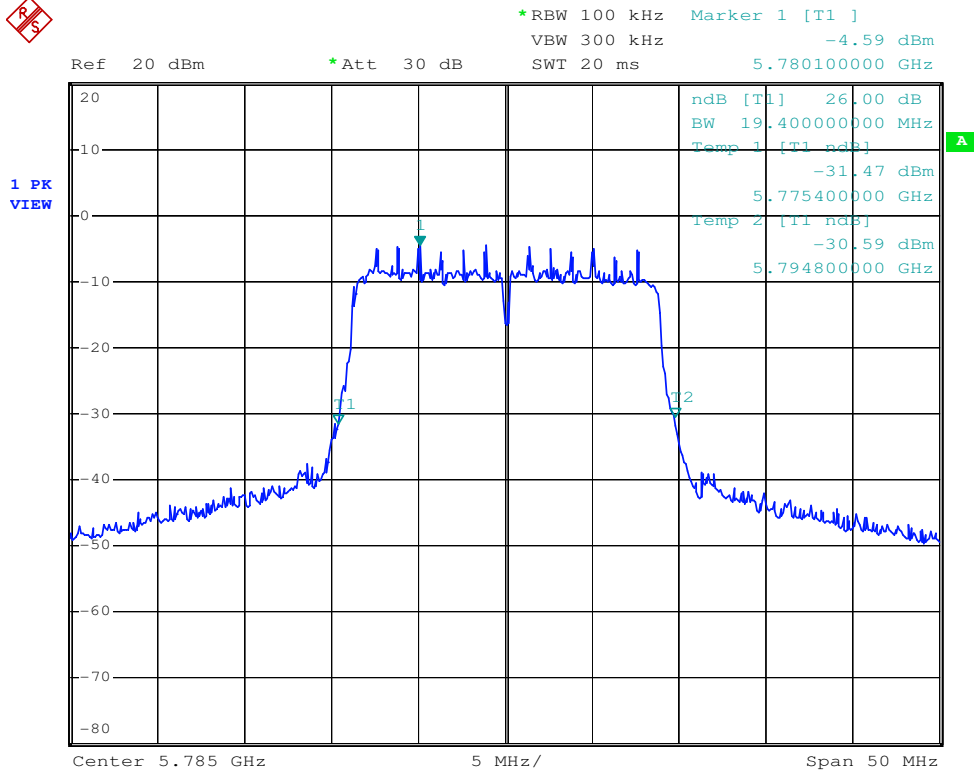
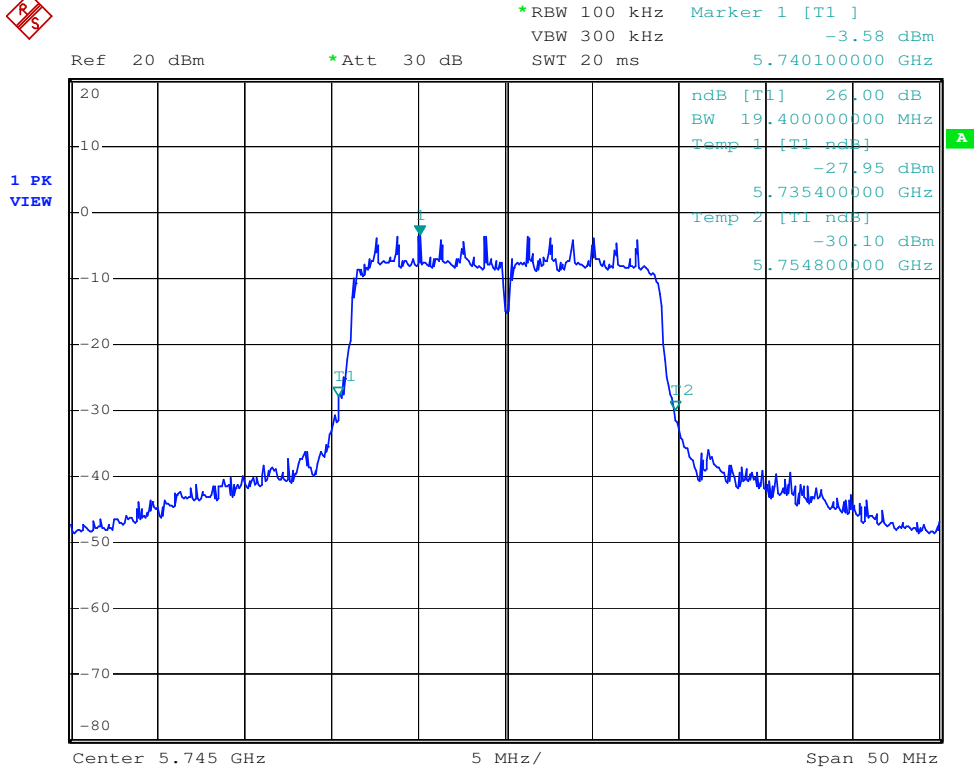


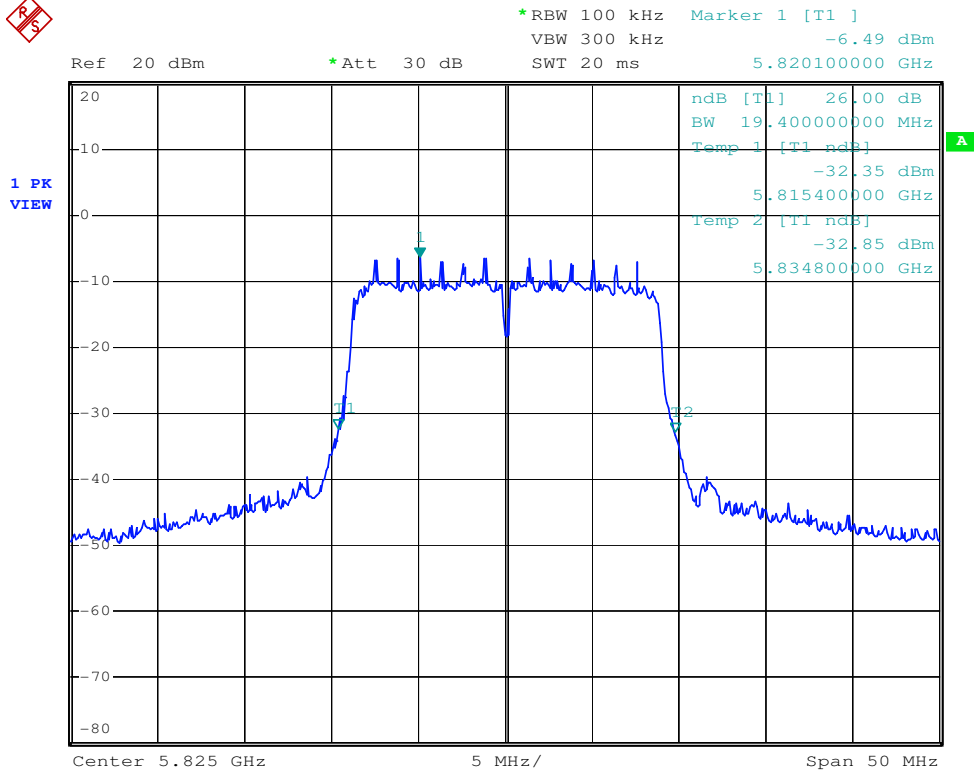
Peak Power Output Data Plot(CH 165 5825MHz)



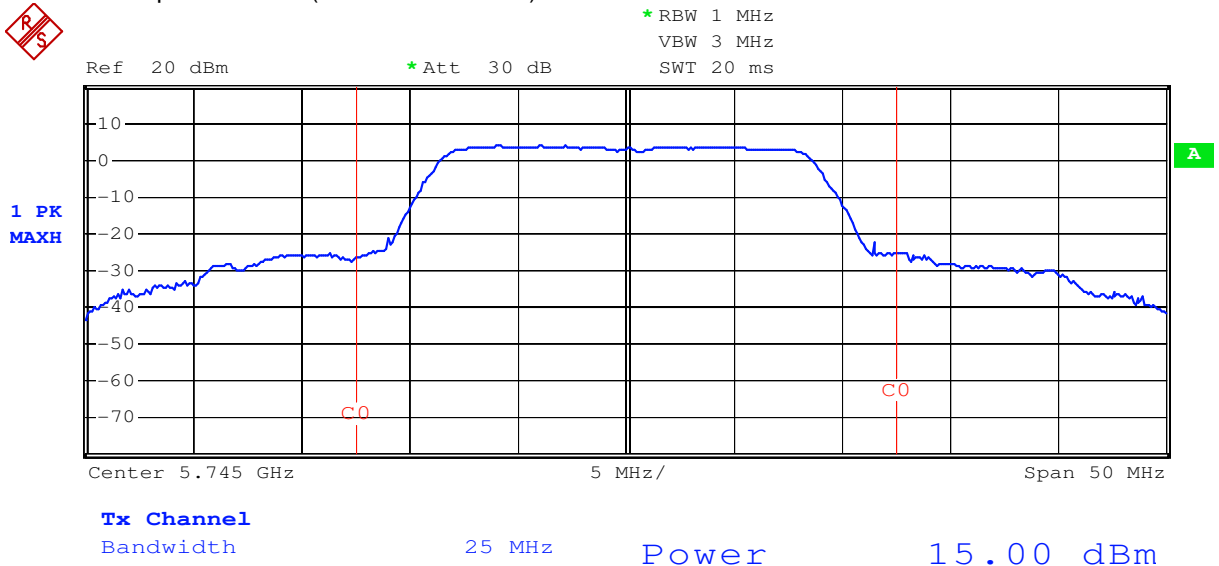
Peak Power Output Data Plot 802.11n 5G Band (20MHz BW) 6.5Mbps (Chain 001)

26dB Bandwidth



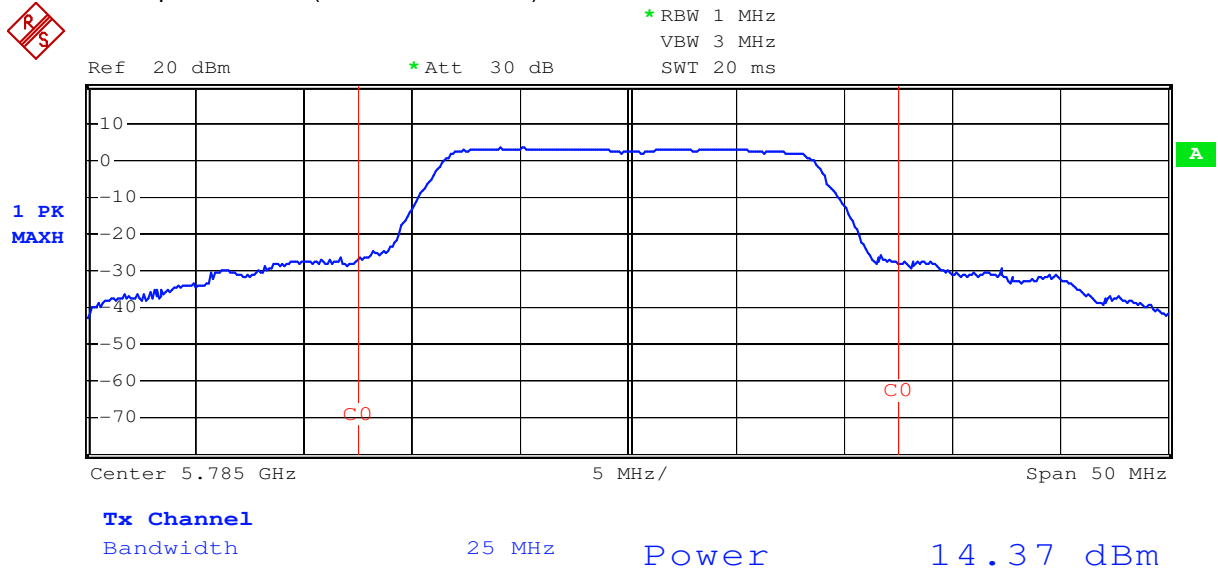


Peak Power Output Data Plot(CH 149 5745MHz)

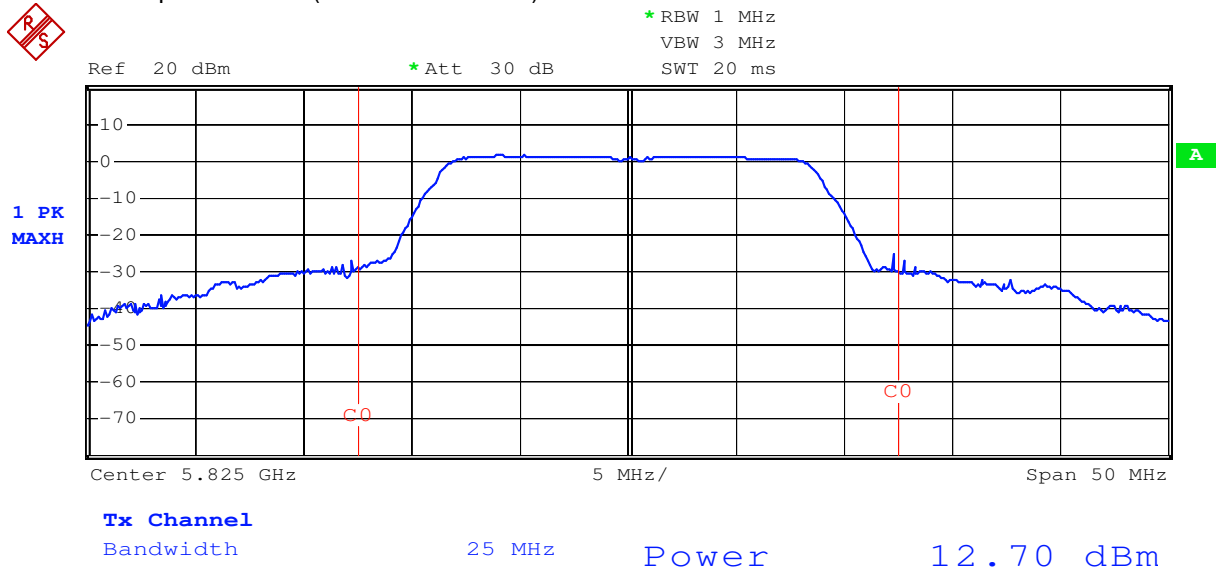




Peak Power Output Data Plot(CH 157 5785MHz)



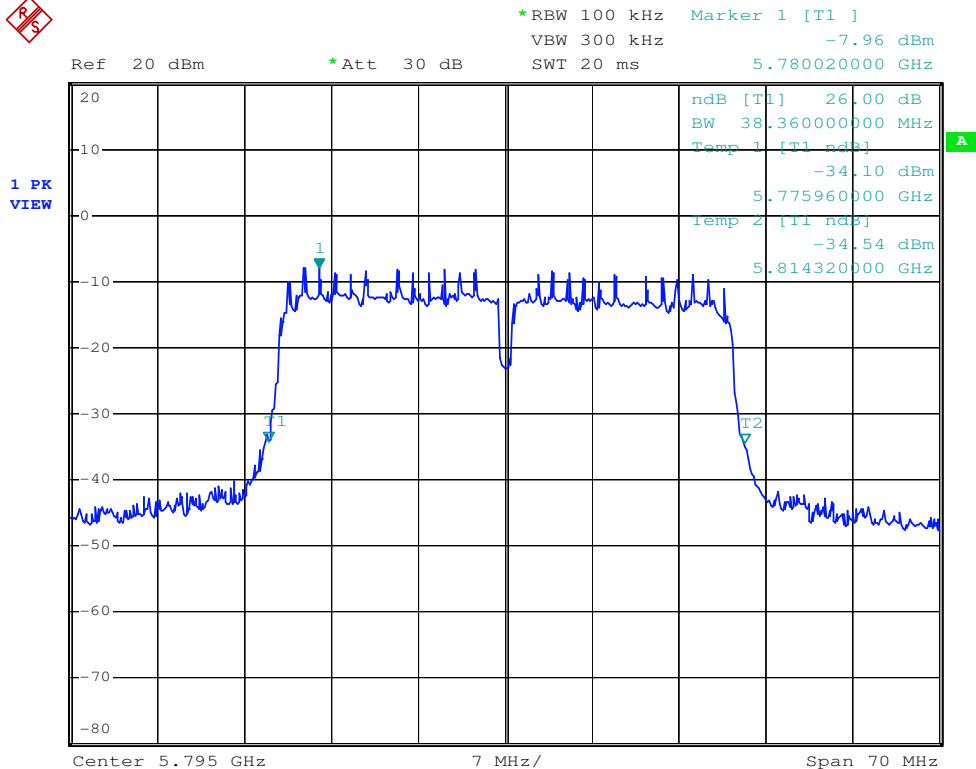
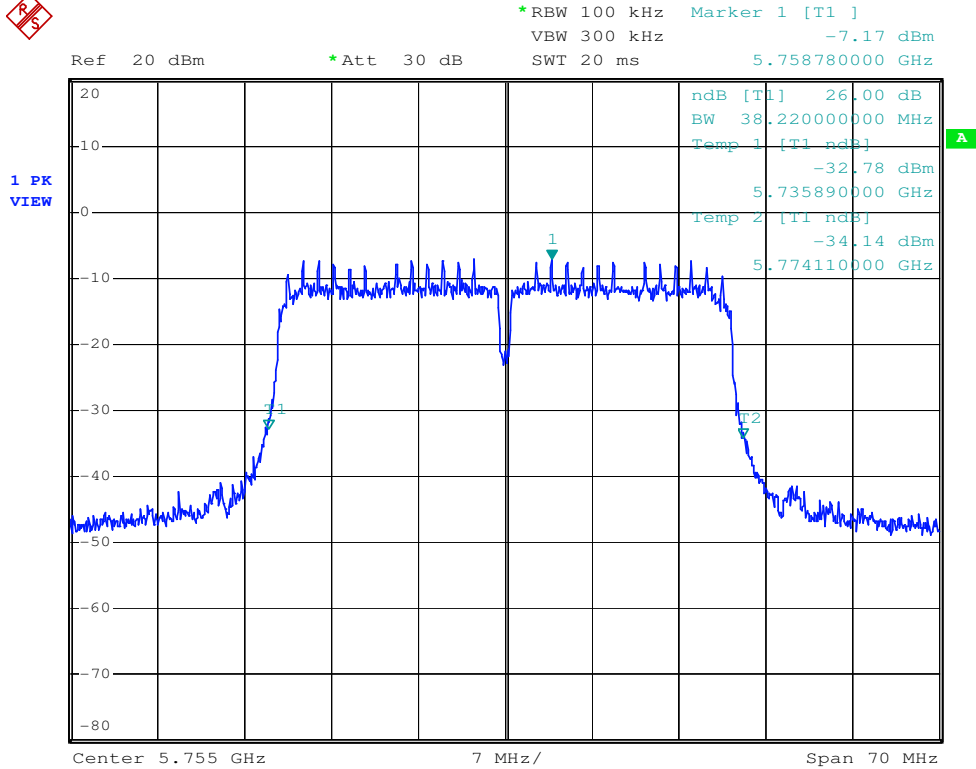
Peak Power Output Data Plot(CH 165 5825MHz)





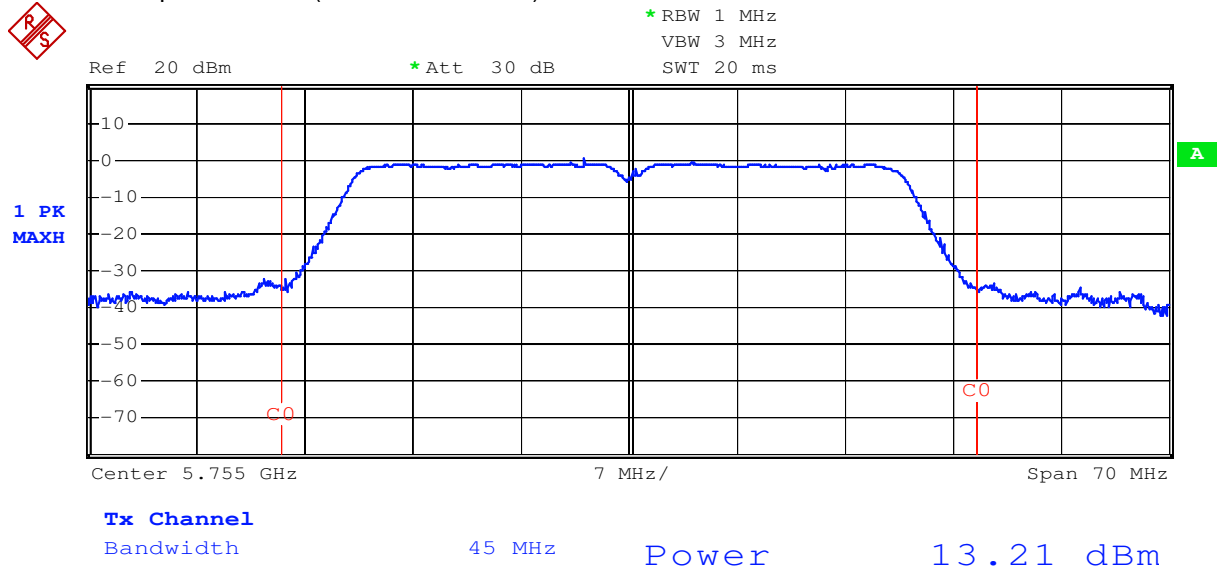
Peak Power Output Data Plot 802.11n 5G Band (40MHz BW) 6.5Mbps (Chain 100)

26dB Bandwidth

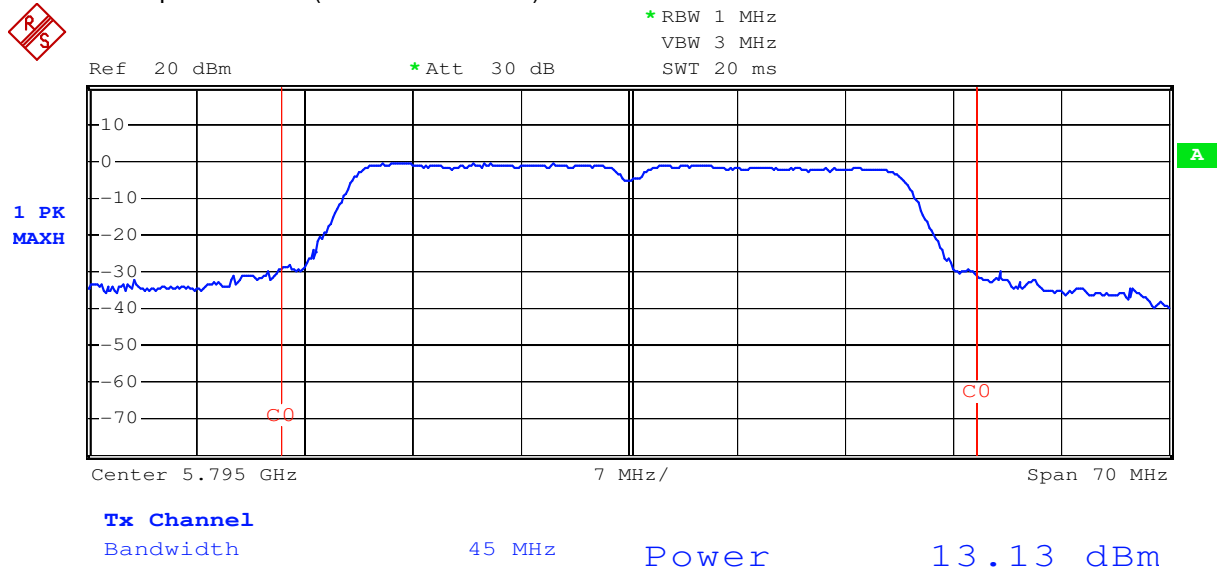




Peak Power Output Data Plot(CH 151 5755MHz)



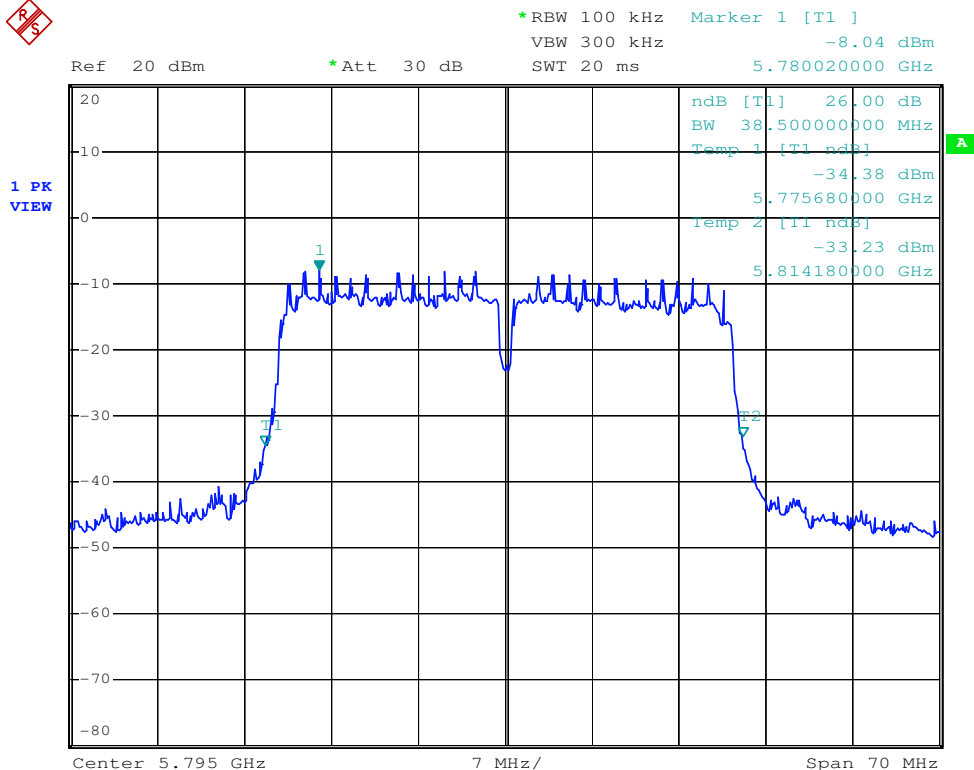
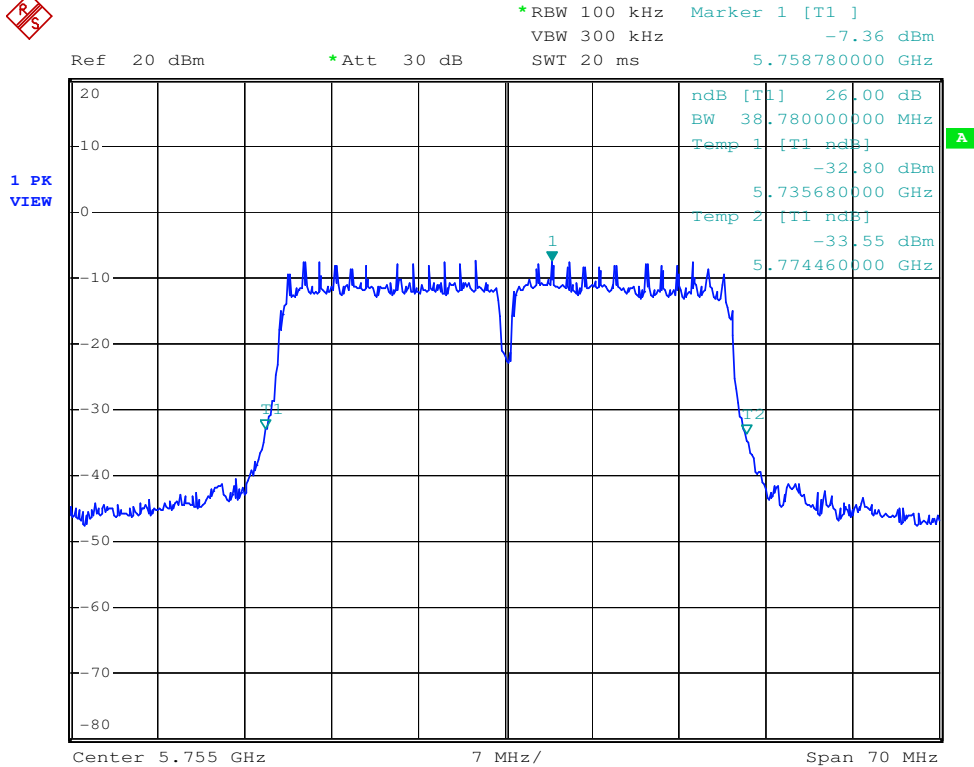
Peak Power Output Data Plot(CH 159 5795MHz)





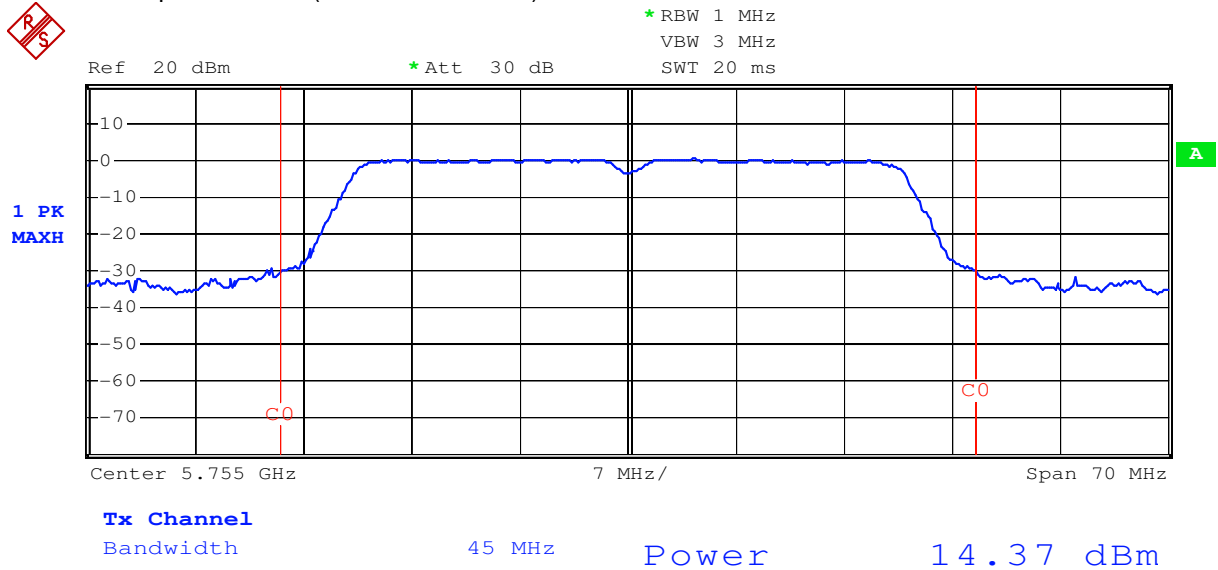
Peak Power Output Data Plot 802.11n 5G Band (40MHz BW) 6.5Mbps (Chain 010)

26dB Bandwidth

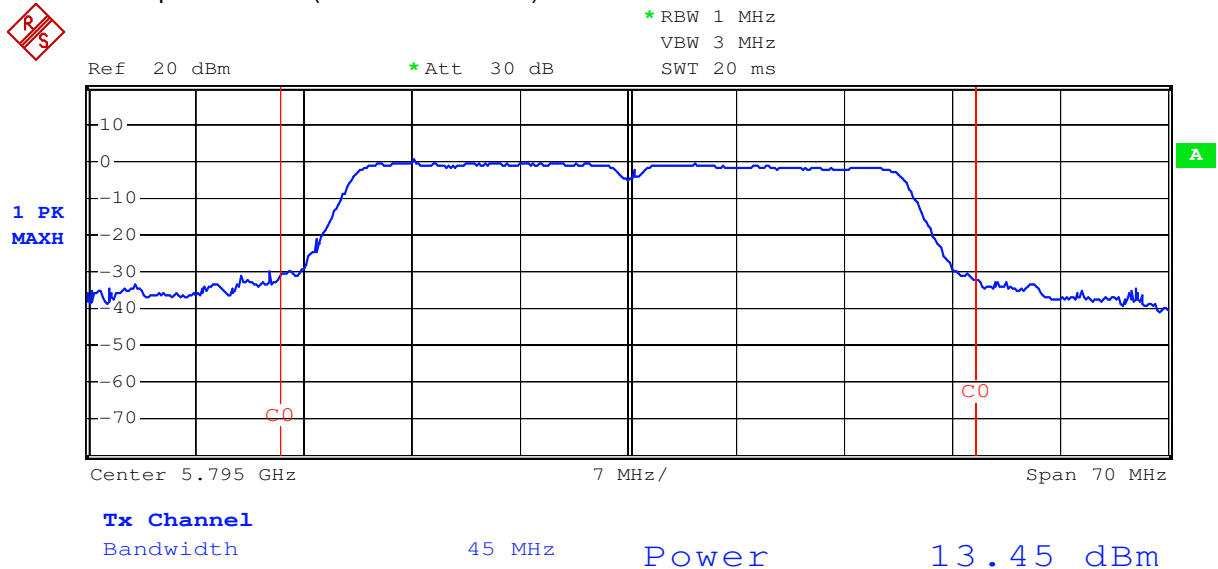




Peak Power Output Data Plot(CH 151 5755MHz)



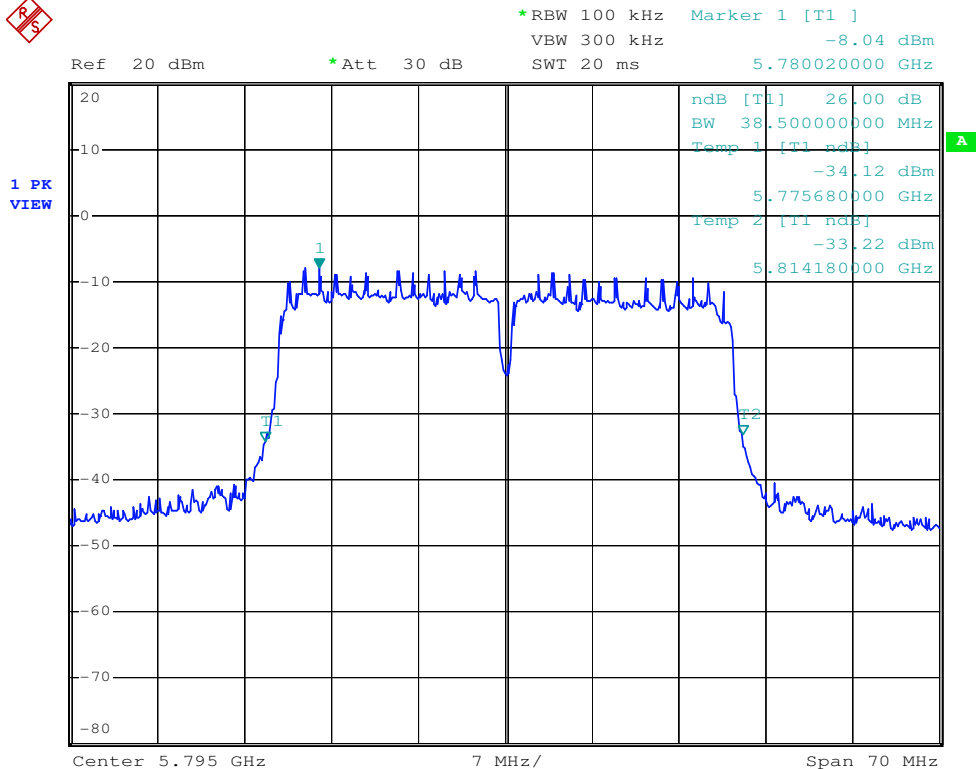
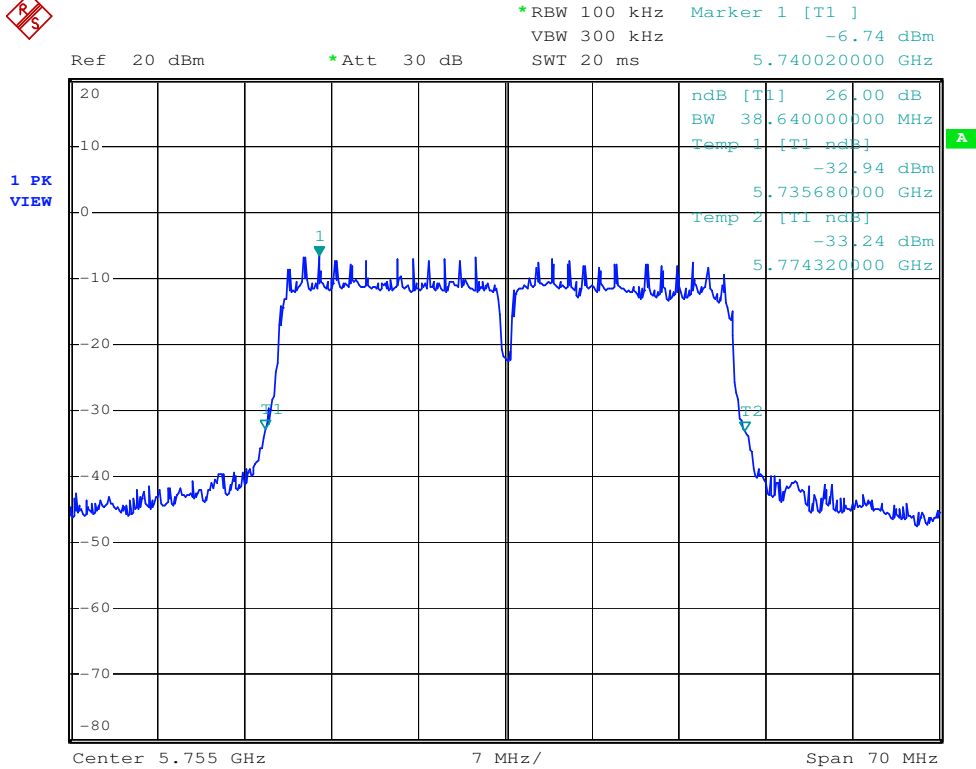
Peak Power Output Data Plot(CH 159 5795MHz)





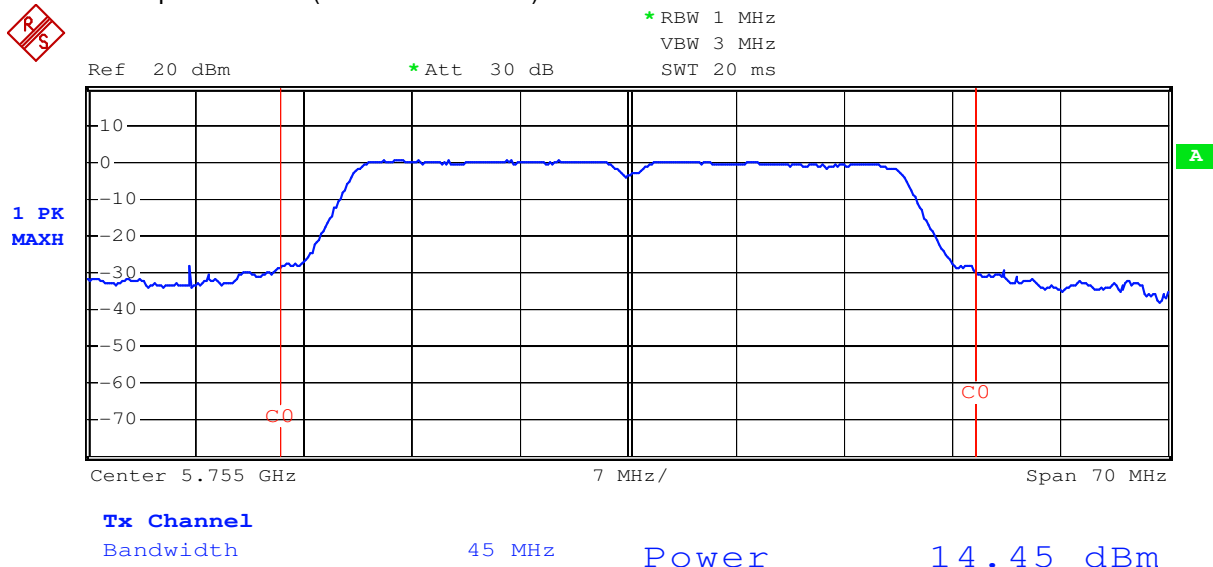
Peak Power Output Data Plot 802.11n 5G Band (40MHz BW) 6.5Mbps (Chain 001)

26dB Bandwidth

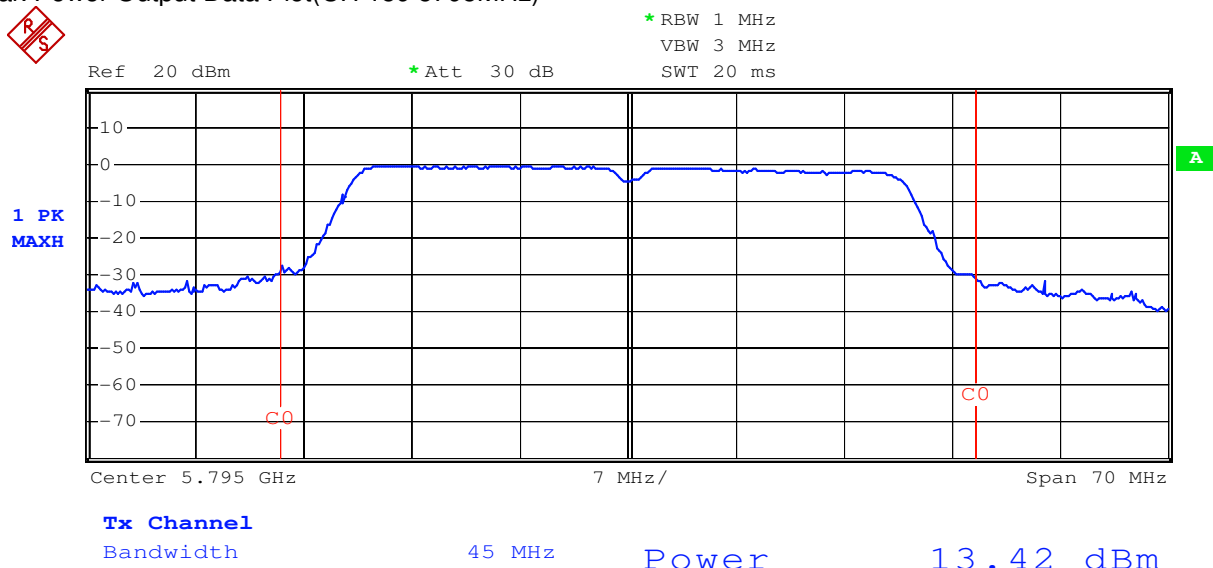




Peak Power Output Data Plot(CH 151 5755MHz)



Peak Power Output Data Plot(CH 159 5795MHz)



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7.3.3 6dB Bandwidth

- Test Requirement:** FCC Part15 247(a)(2)
- Test date:** March 21,2012 ~March 25,2012
- Standard Applicable:** According to section 15.247(a)(2),Systems using digital modulationg techniques may operate in the 902-928MHz,2400-2483.5MHz,and 5725-5850MHz bands.The minimum 6dB bandwidth shall be at least 500KHz.
- Measurement Procedure:**
1. Place the EUT on the table and set it in transmitting mode.
 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
 3. Set the spectrum analyzer as RBW=100KHz, VBW =3* RBW, Span=30/ 50MHz, Sweep=auto
 4. Mark the peak frequency and -6dB (upper and lower) frequency.
 5. Repeat above procedures until all frequency and antenna port measured were complete.

Measurement Result:

The test was performed with 802.11b, the data was shown the worst case 802.11b 1Mbps.

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	12.80	500	PASS
06	2437	13.00	500	PASS
11	2462	13.10	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	13.00	500	PASS
06	2437	13.00	500	PASS
11	2462	13.10	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	13.00	500	PASS
06	2437	13.00	500	PASS
11	2462	13.10	500	PASS



The test was performed with 802.11g, the data was shown the worst case 802.11g 6Mbps.
(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	16.50	500	PASS
06	2437	16.40	500	PASS
11	2462	16.40	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	16.50	500	PASS
06	2437	16.40	500	PASS
11	2462	16.30	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	16.50	500	PASS
06	2437	16.40	500	PASS
11	2462	16.40	500	PASS

The test was performed with 802.11n(20MHz BW), the data was shown the worst case 802.11n 6.5Mbps(2.4G Band).

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	17.50	500	PASS
06	2437	17.80	500	PASS
11	2462	17.60	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	17.30	500	PASS
06	2437	17.30	500	PASS
11	2462	17.30	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2412	17.50	500	PASS
06	2437	17.50	500	PASS
11	2462	17.50	500	PASS



The test was performed with 802.11n(40MHz BW), the data was shown the worst case 802.11n 6.5Mbps(2.4G Band).

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2422	35.70	500	PASS
04	2437	35.70	500	PASS
07	2452	35.70	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2422	35.42	500	PASS
04	2437	35.70	500	PASS
07	2452	35.28	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
01	2422	35.70	500	PASS
04	2437	35.56	500	PASS
07	2452	35.56	500	PASS

The test was performed with 802.11a, the data was shown the worst case 802.11a 6.5Mbps.

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	16.40	500	PASS
157	5785	16.20	500	PASS
165	5825	16.40	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	16.40	500	PASS
157	5785	16.40	500	PASS
165	5825	16.40	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	16.40	500	PASS
157	5785	16.10	500	PASS
165	5825	16.30	500	PASS



The test was performed with 802.11n(20MHz BW), the data was shown the worst case 802.11n 6.5Mbps(5G Band).

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	17.10	500	PASS
157	5785	17.30	500	PASS
165	5825	17.30	500	PASS

(Chain 010)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	17.60	500	PASS
157	5785	17.40	500	PASS
165	5825	17.30	500	PASS

(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
149	5745	17.30	500	PASS
157	5785	17.10	500	PASS
165	5825	17.40	500	PASS

The test was performed with 802.11n(40MHz BW), the data was shown the worst case 802.11n 6.5Mbps(5G Band).

(Chain 100)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
151	5755	35.42	500	PASS
159	5795	35.42	500	PASS

(Chain 010)

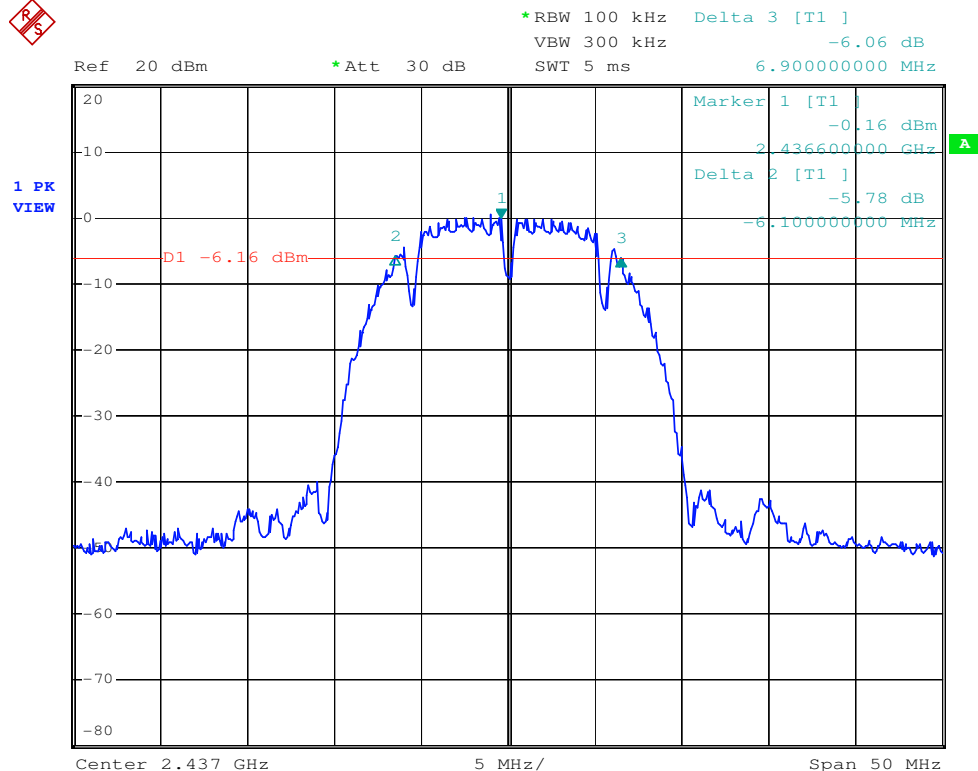
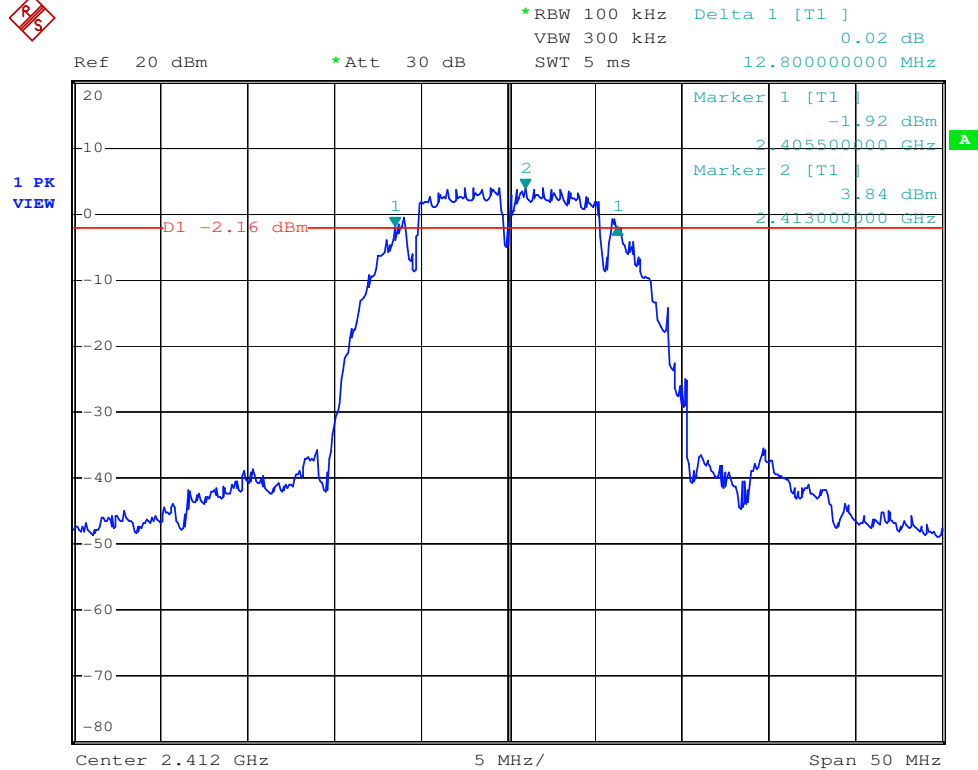
CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
151	5755	35.56	500	PASS
159	5795	35.28	500	PASS

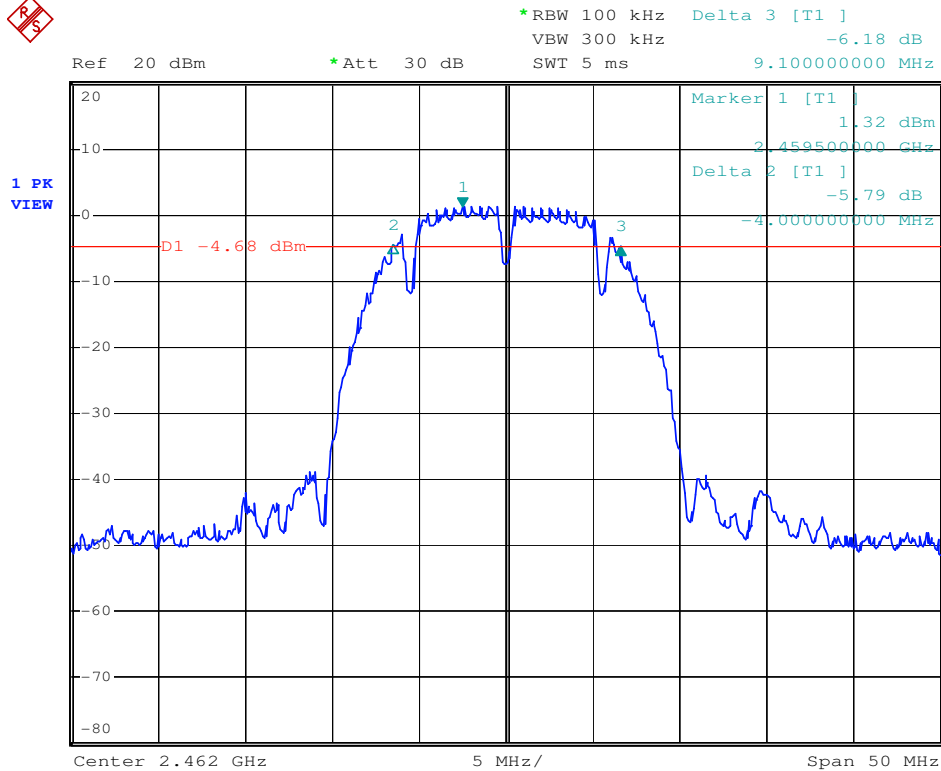
(Chain 001)

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
151	5755	35.42	500	PASS
159	5795	35.28	500	PASS

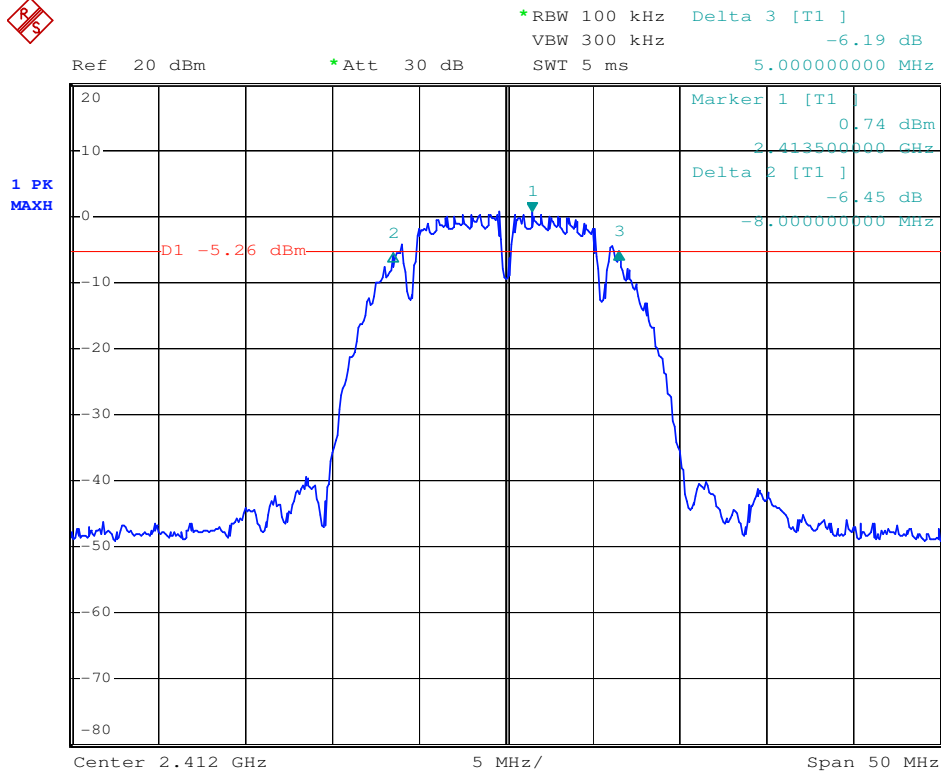


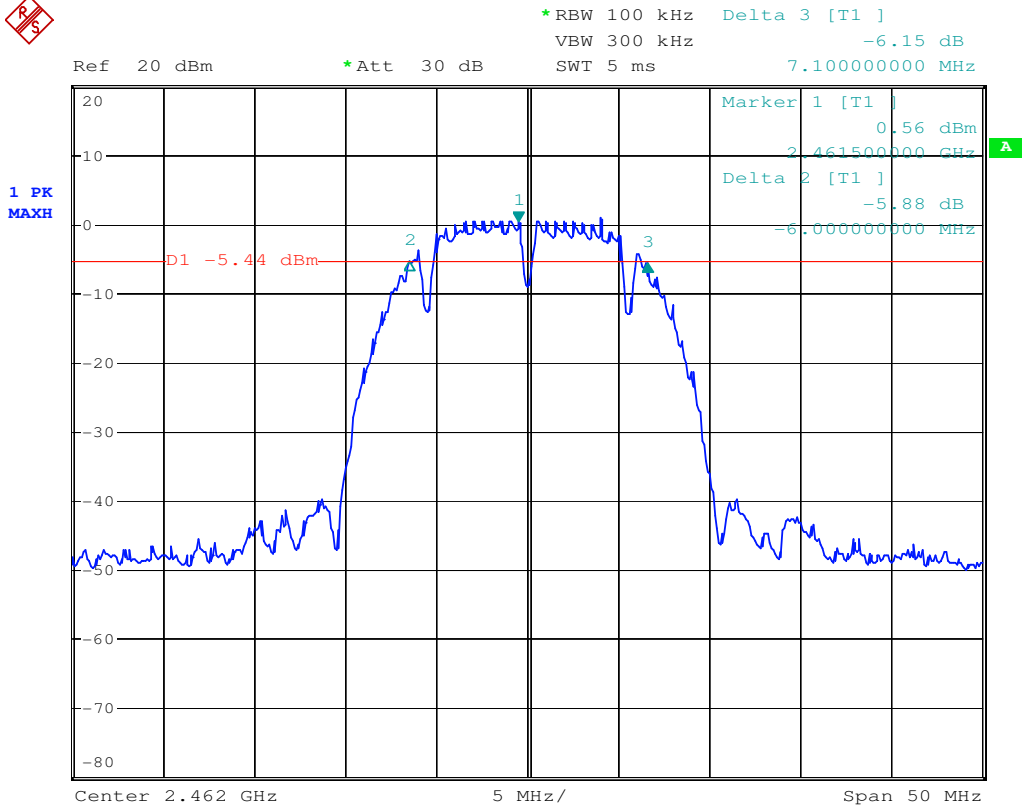
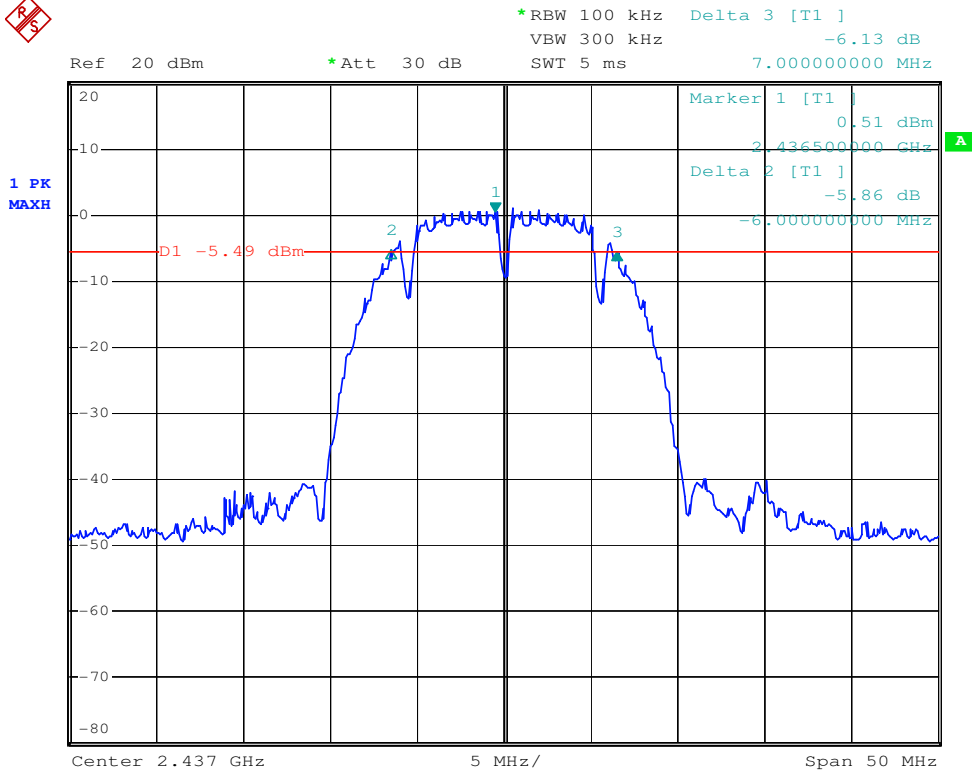
The test was performed with 802.11b, the data was shown the worst case 802.11b 1Mbps.
(Chain 100)





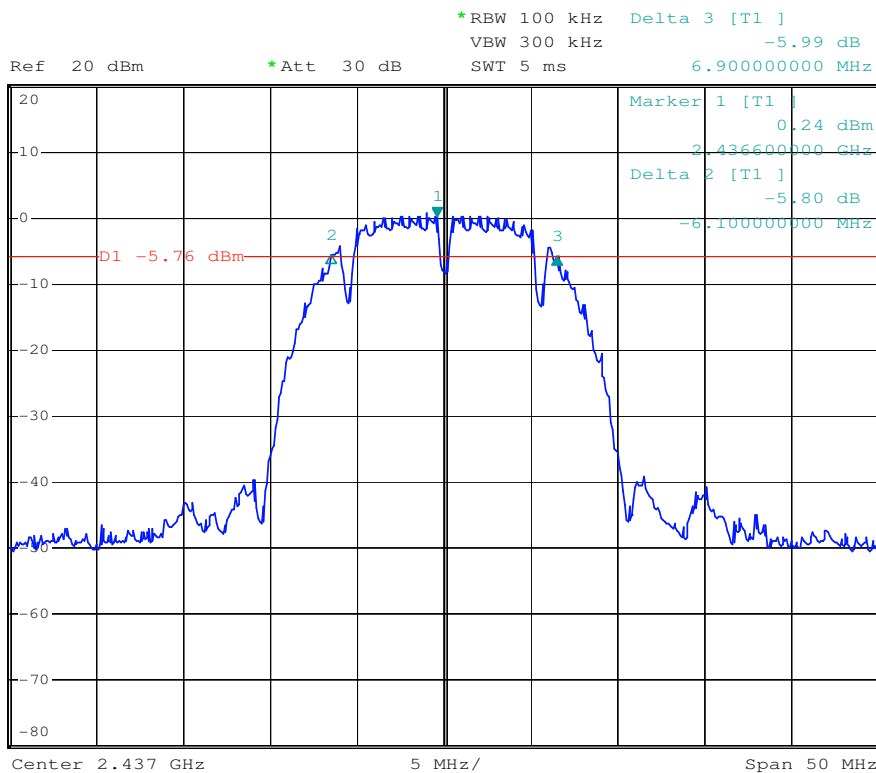
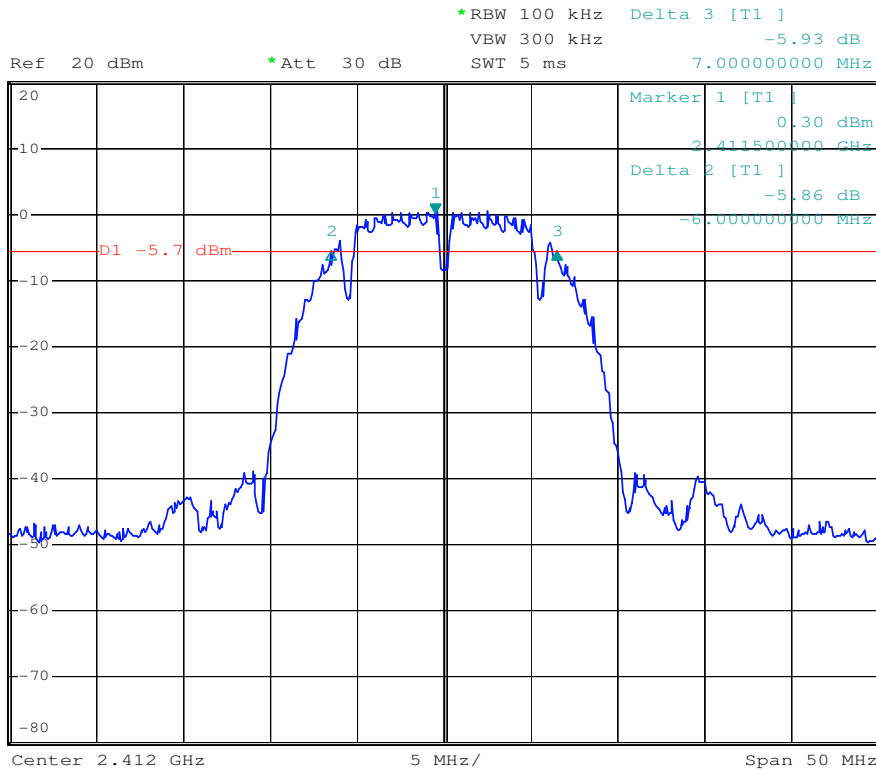
(Chain 010)



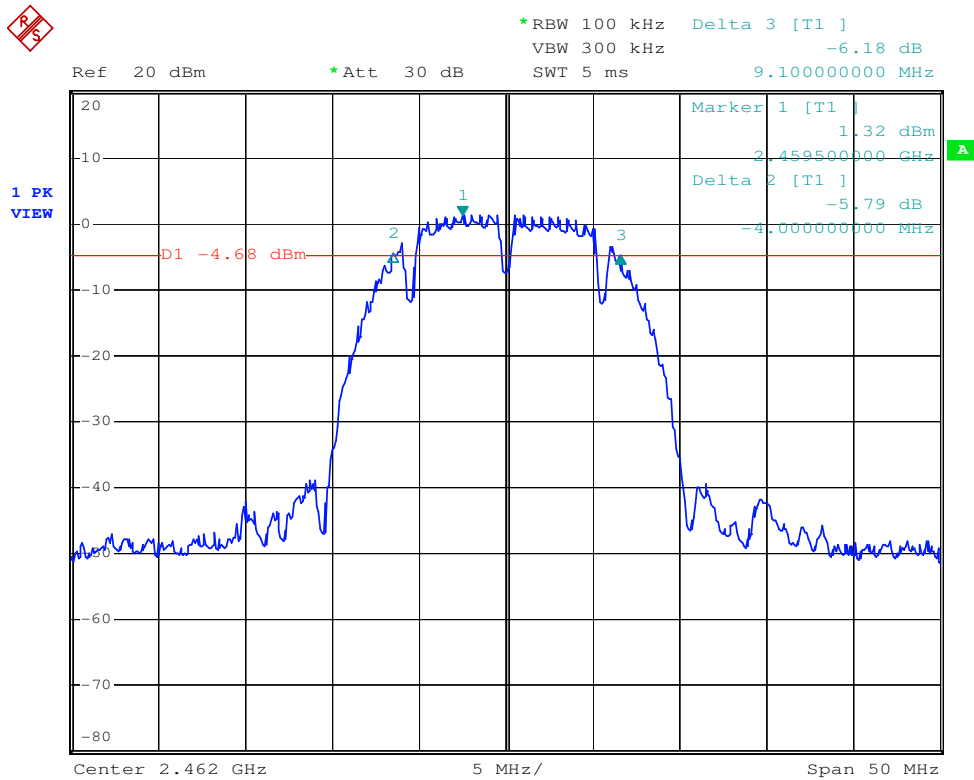




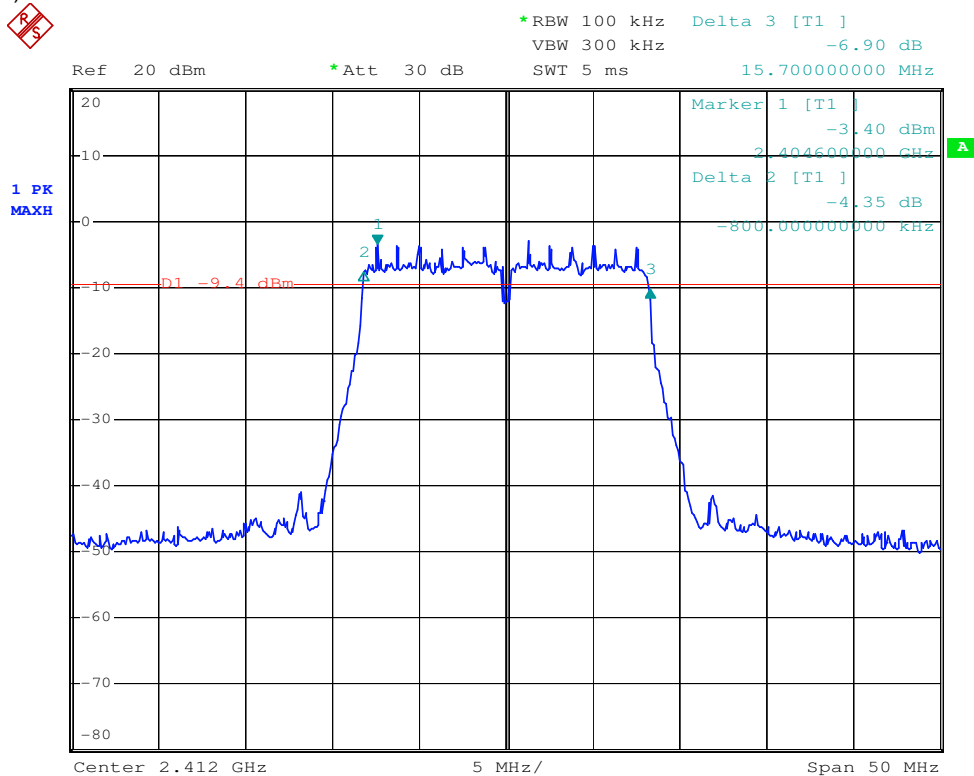
(Chain 001)

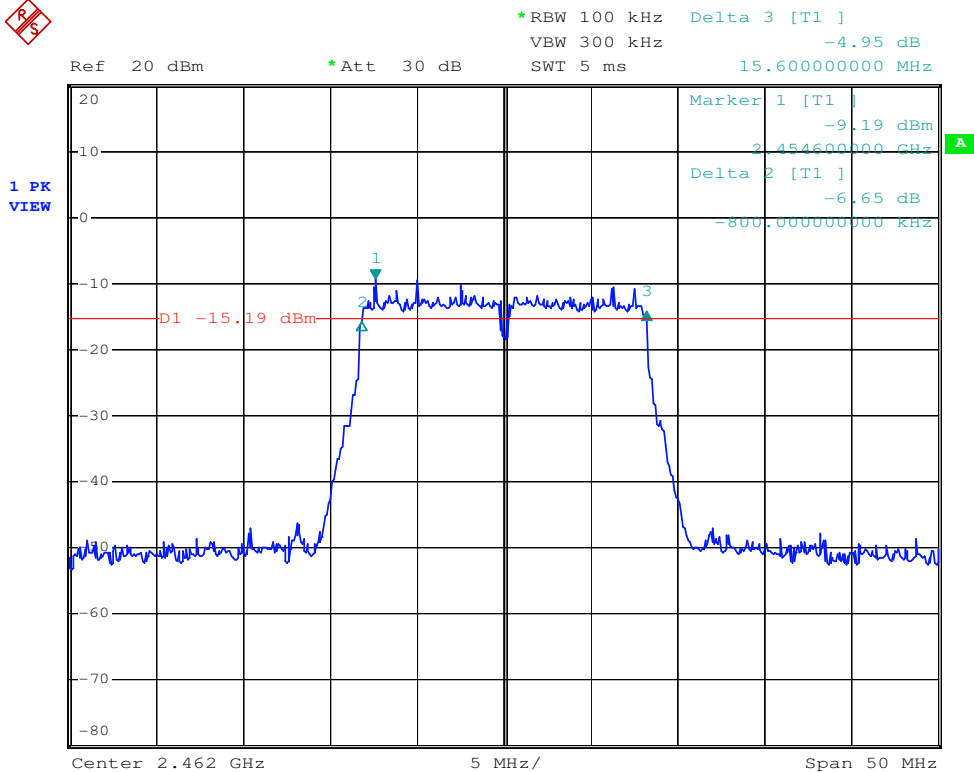
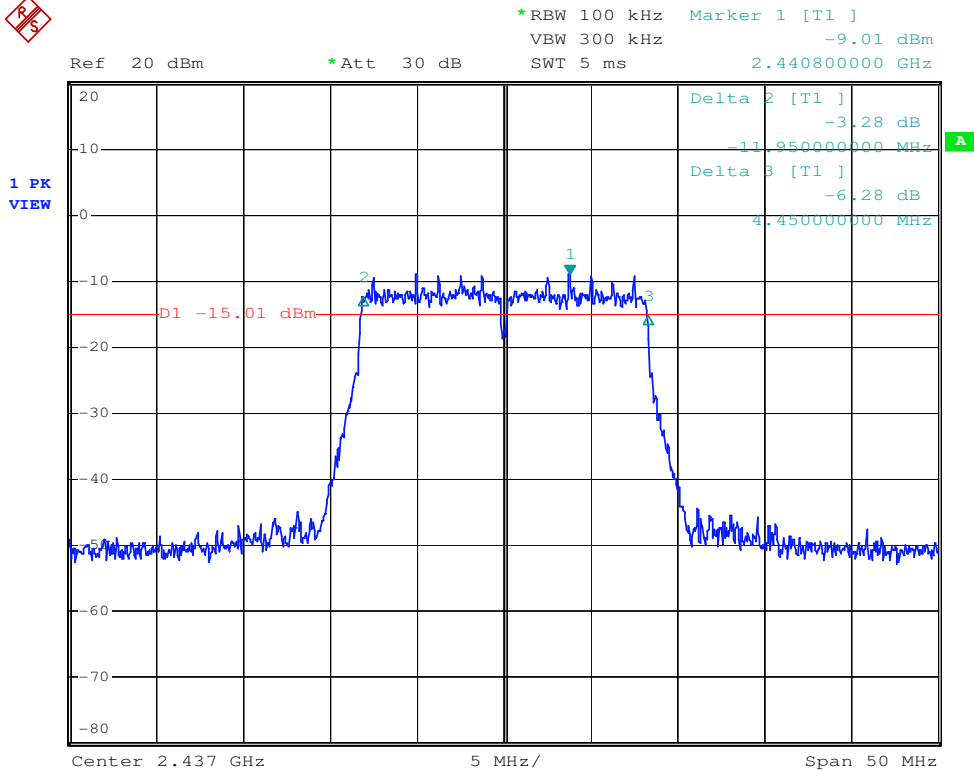


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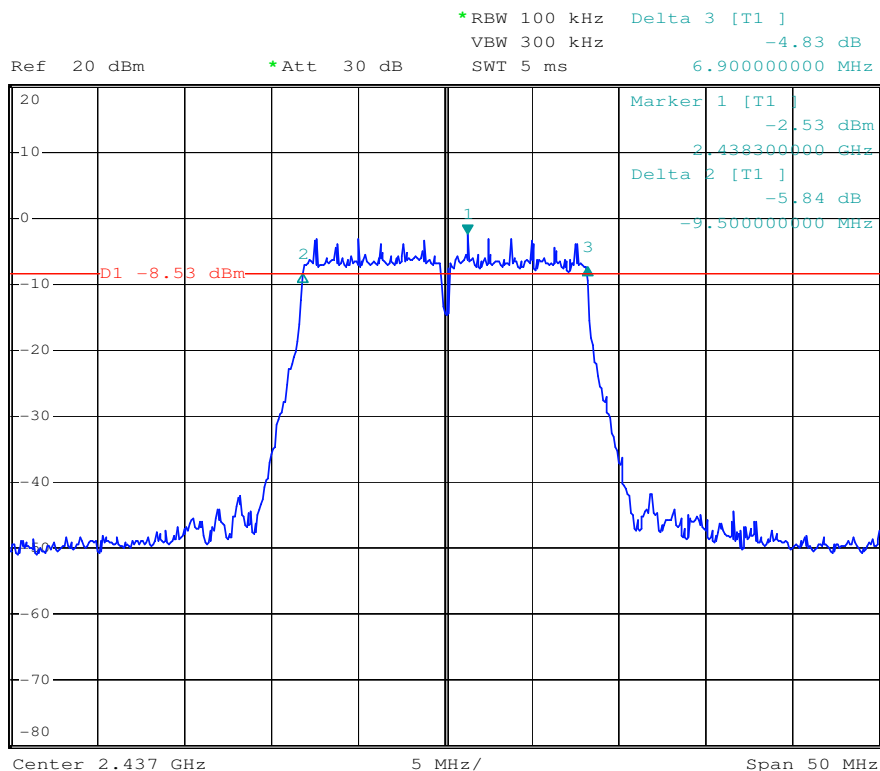
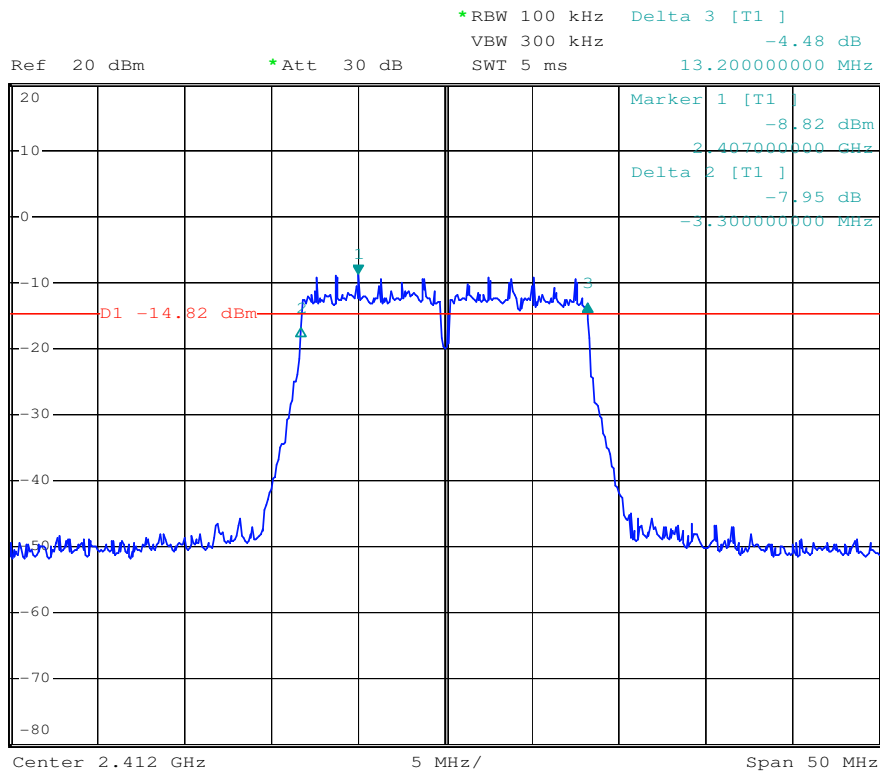
The test was performed with 802.11g, the data was shown the worst case 802.11g 6Mbps. (Chain 100)

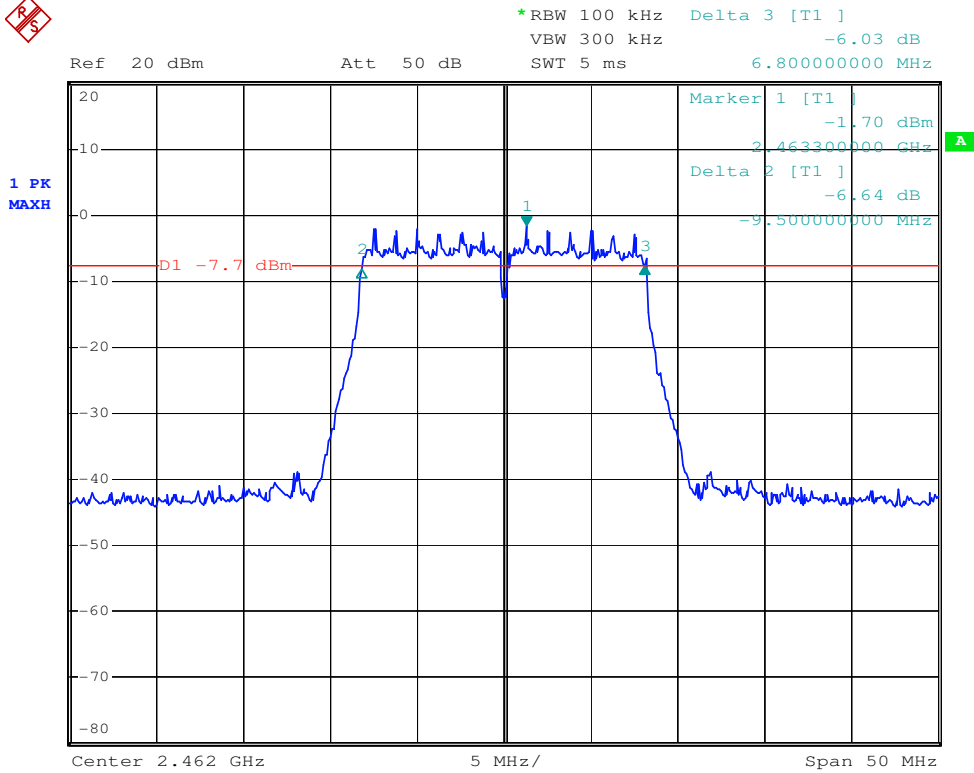




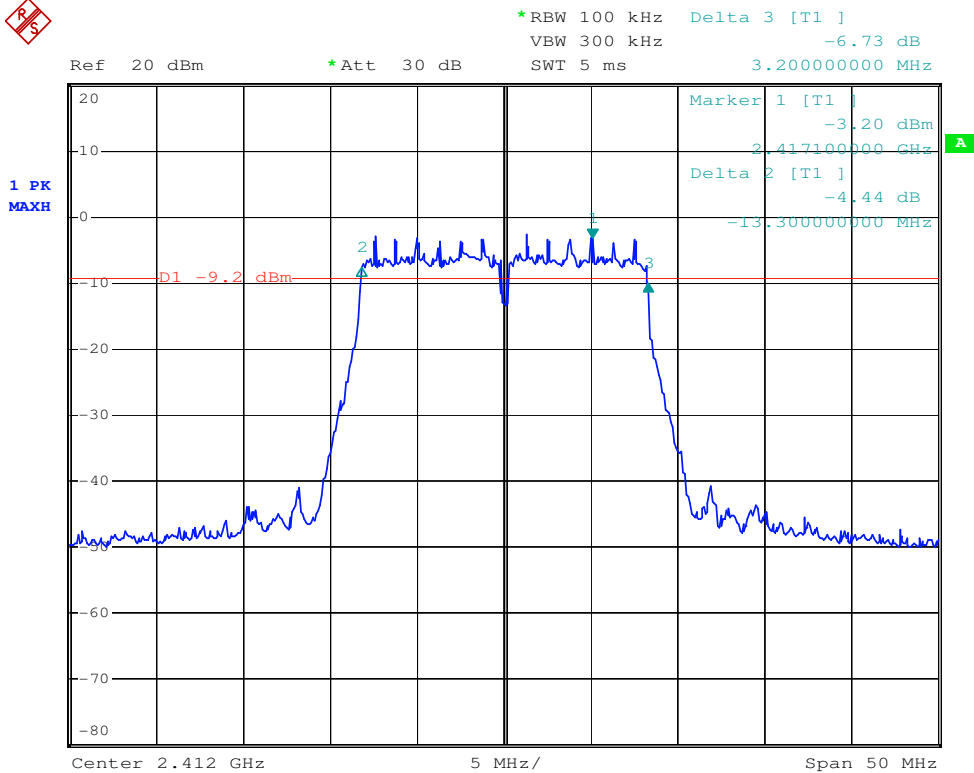


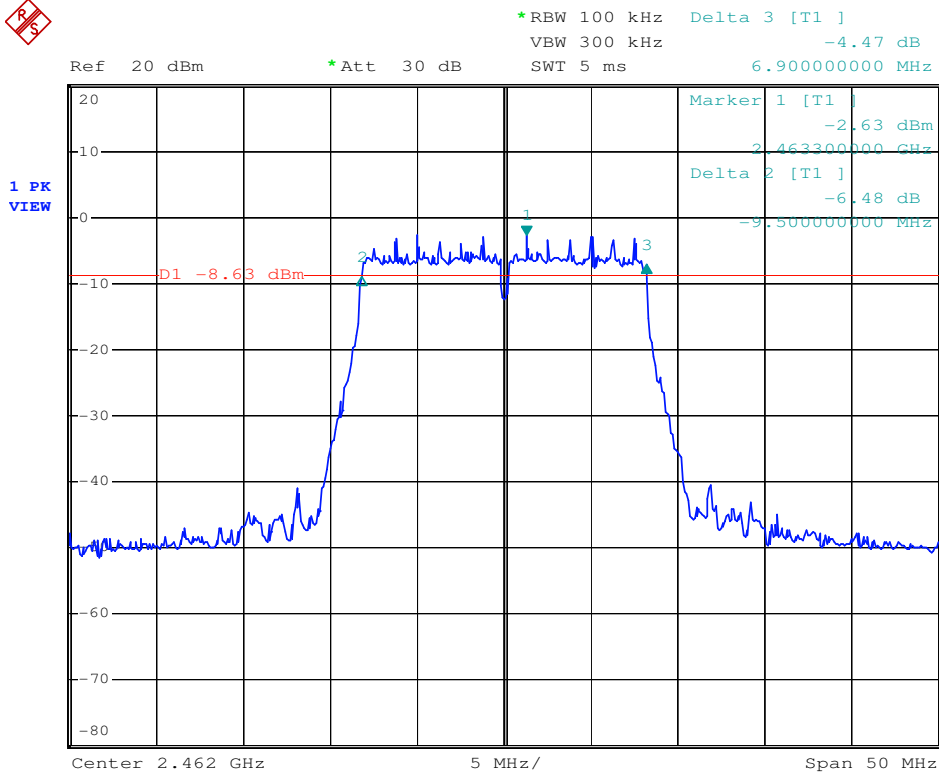
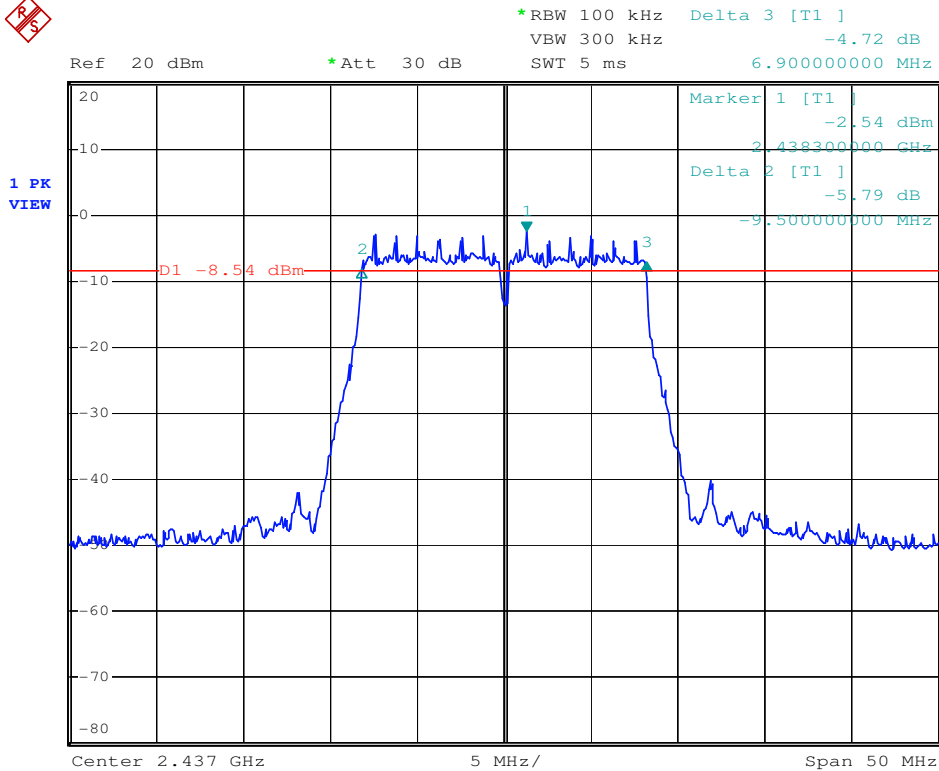
(Chain 010)





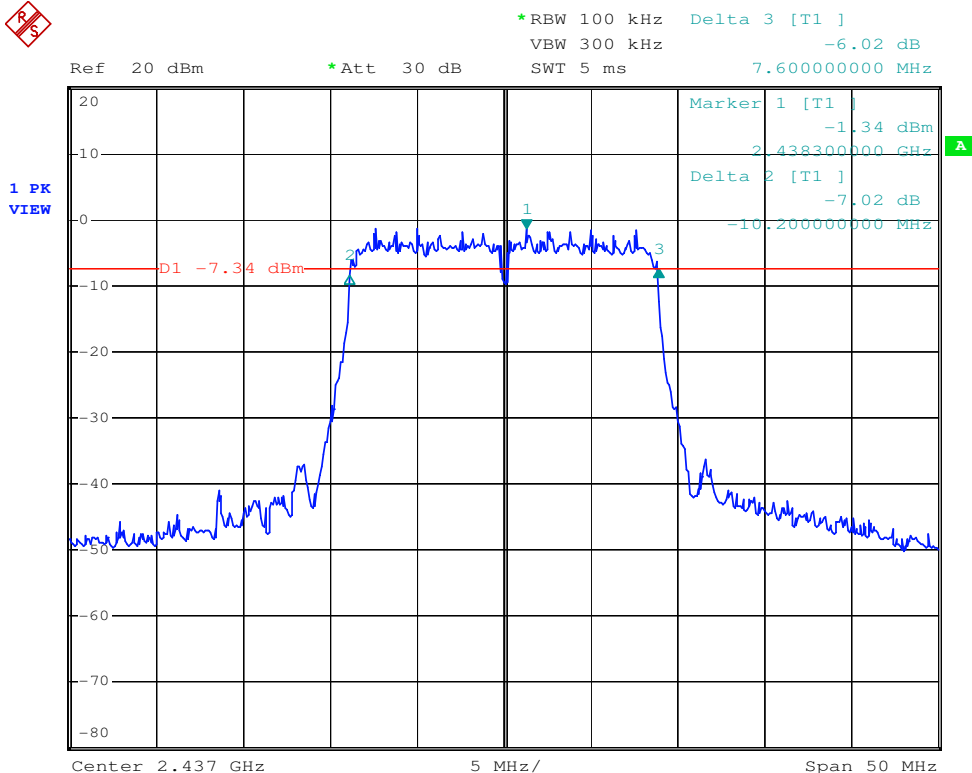
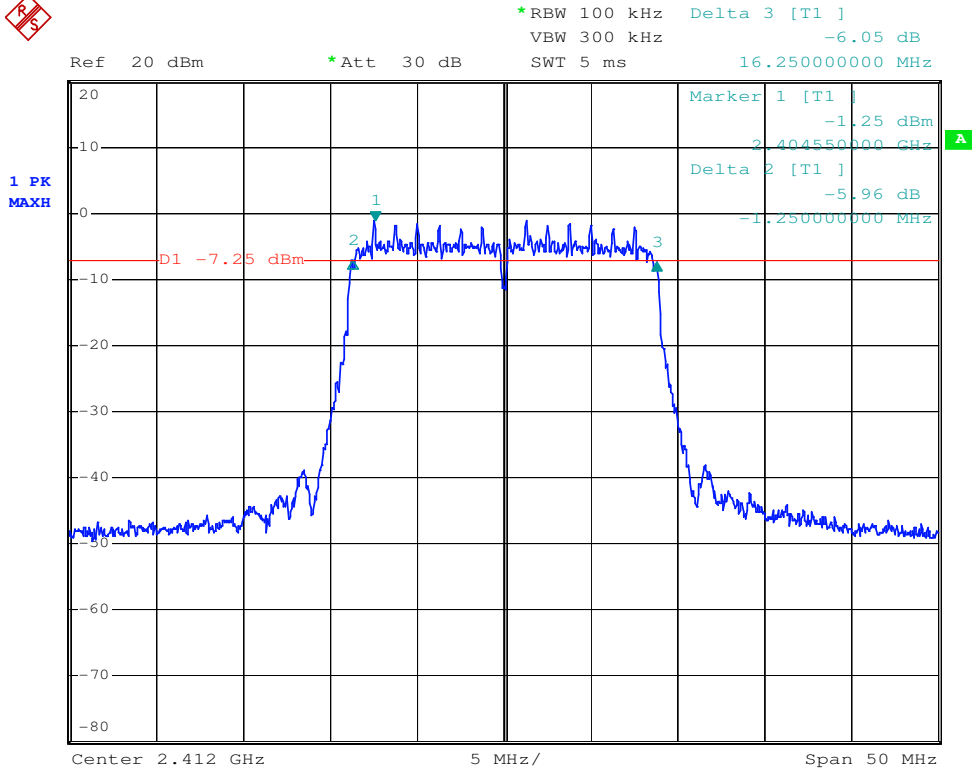
(Chain 001)

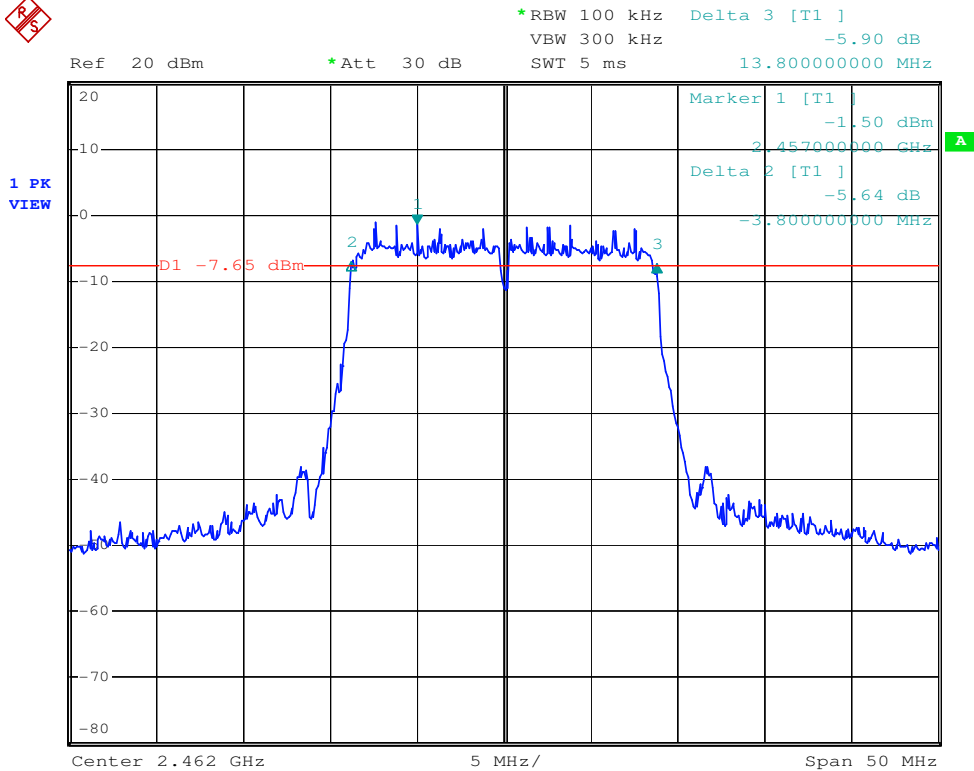




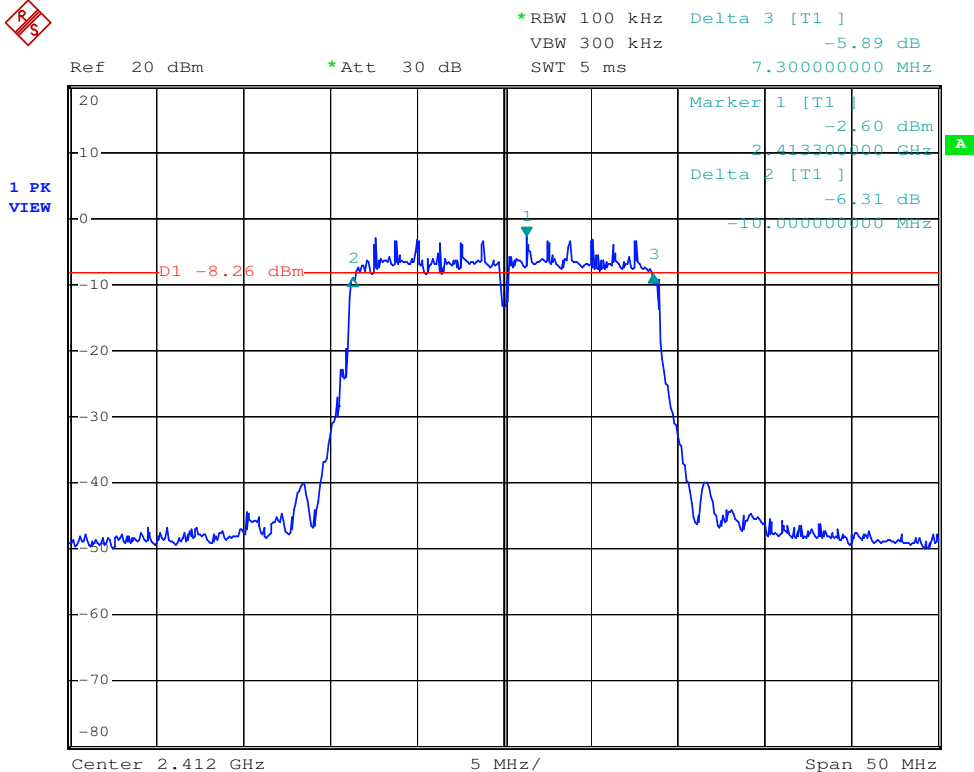


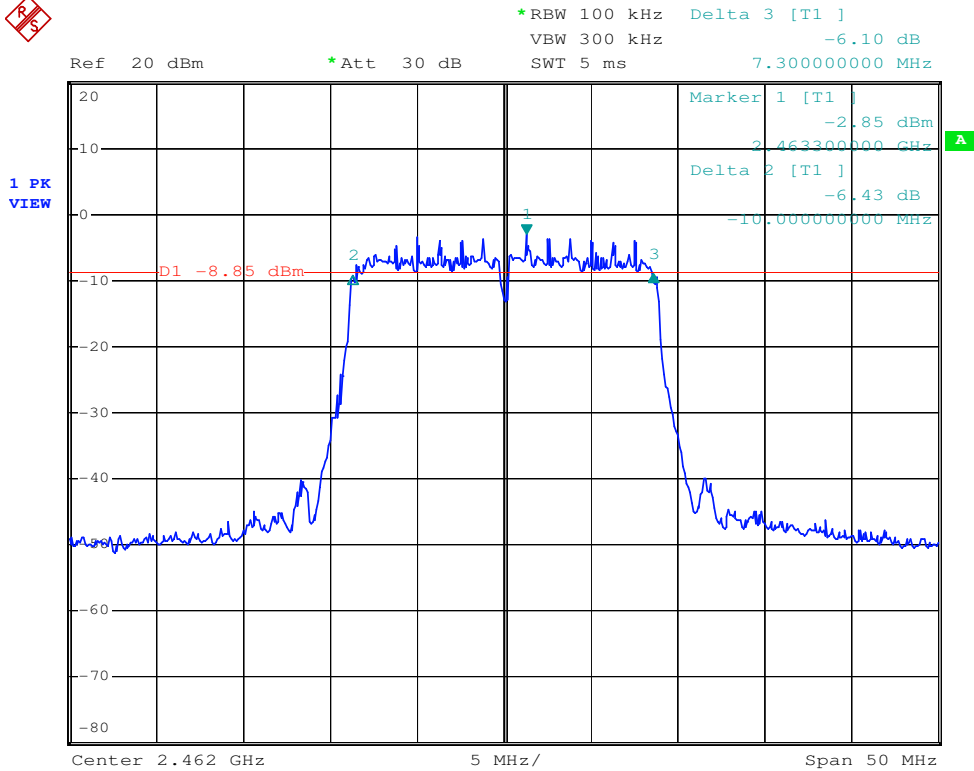
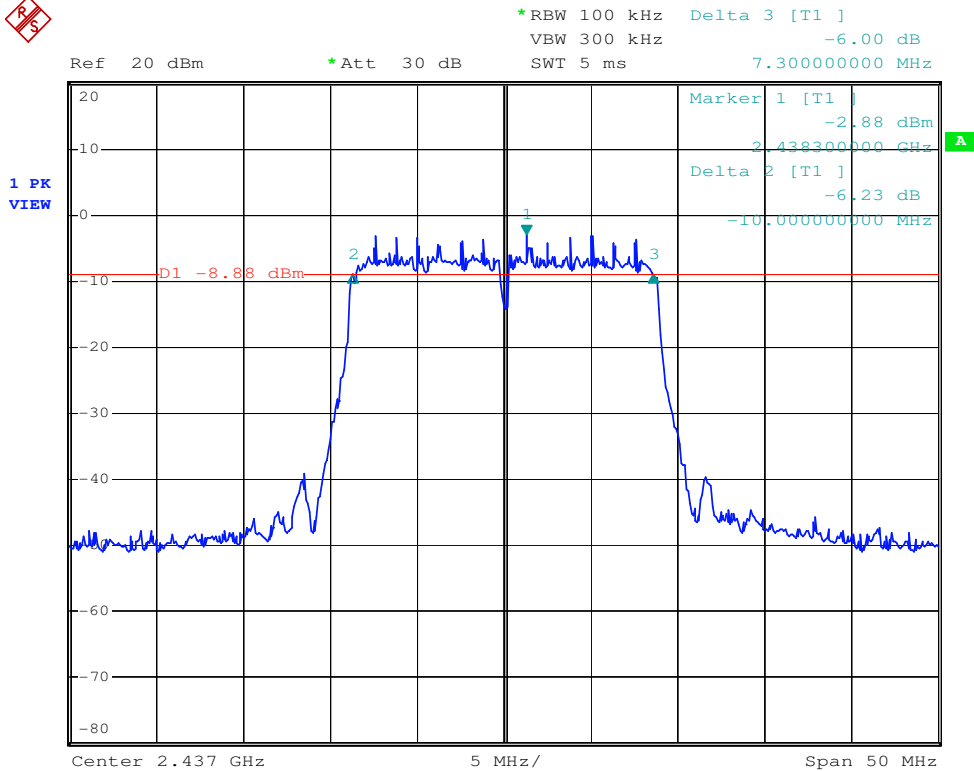
The test was performed with 802.11n(20MHz BW, 2.4G Band), the data was shown the worst case
802.11n(20MHz) 6.5Mbps.
(Chain 100)





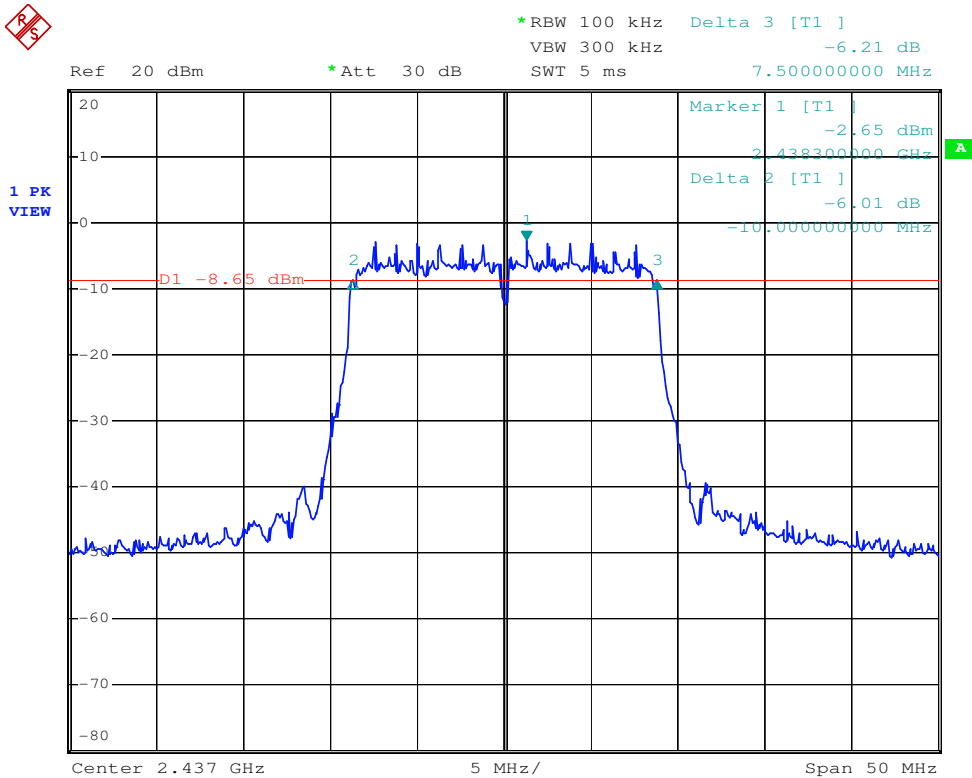
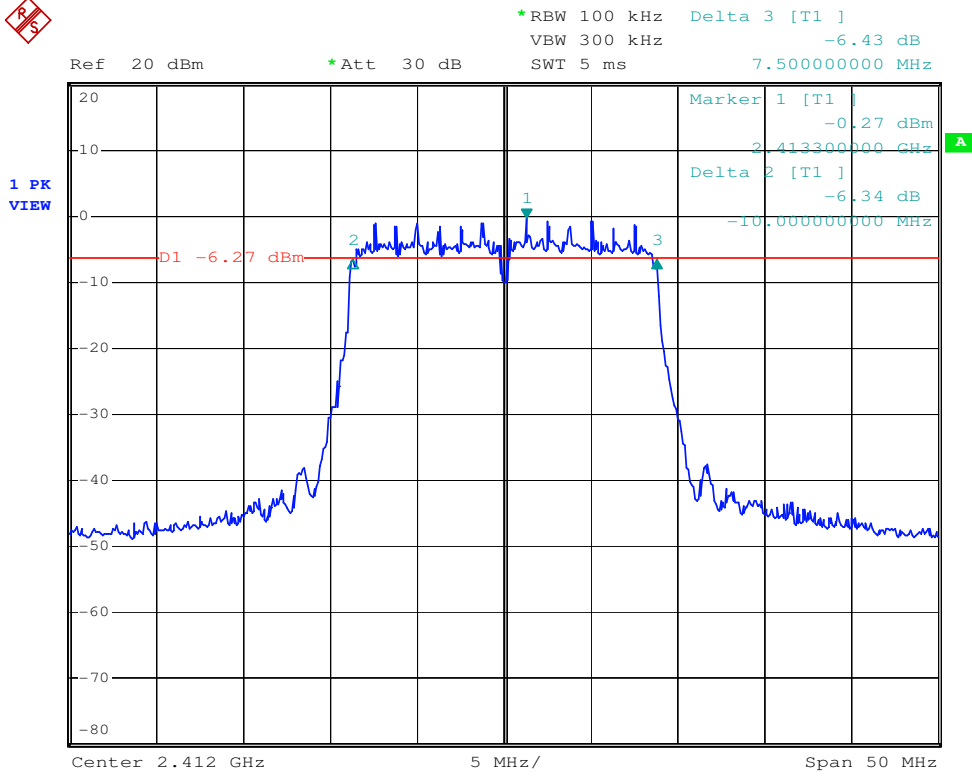
(Chain 010)

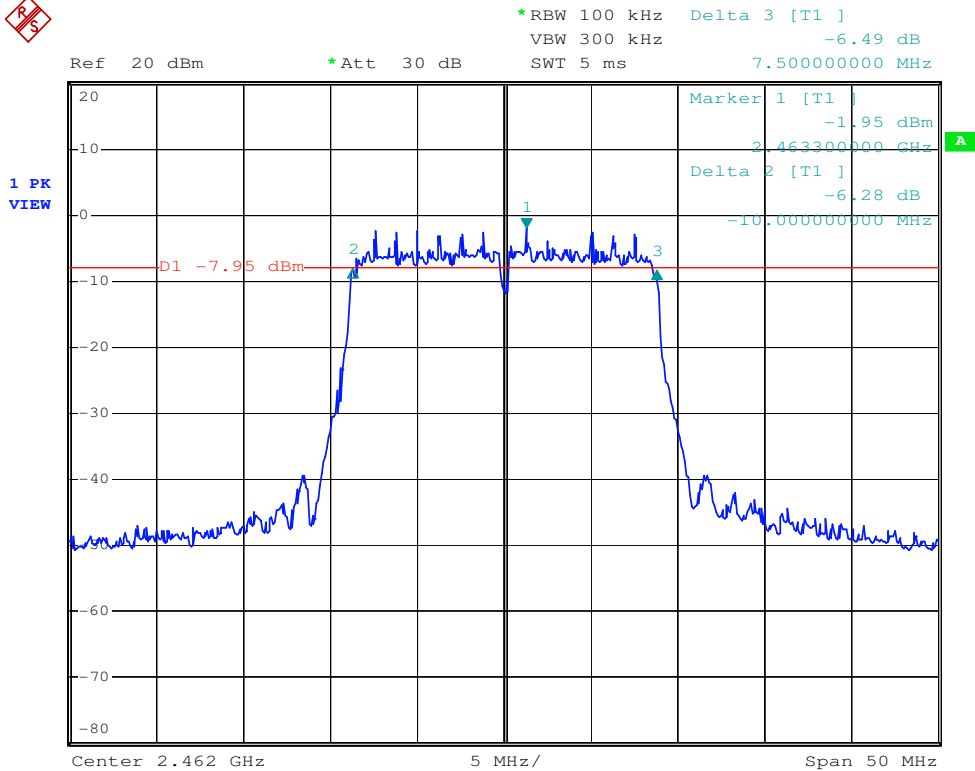






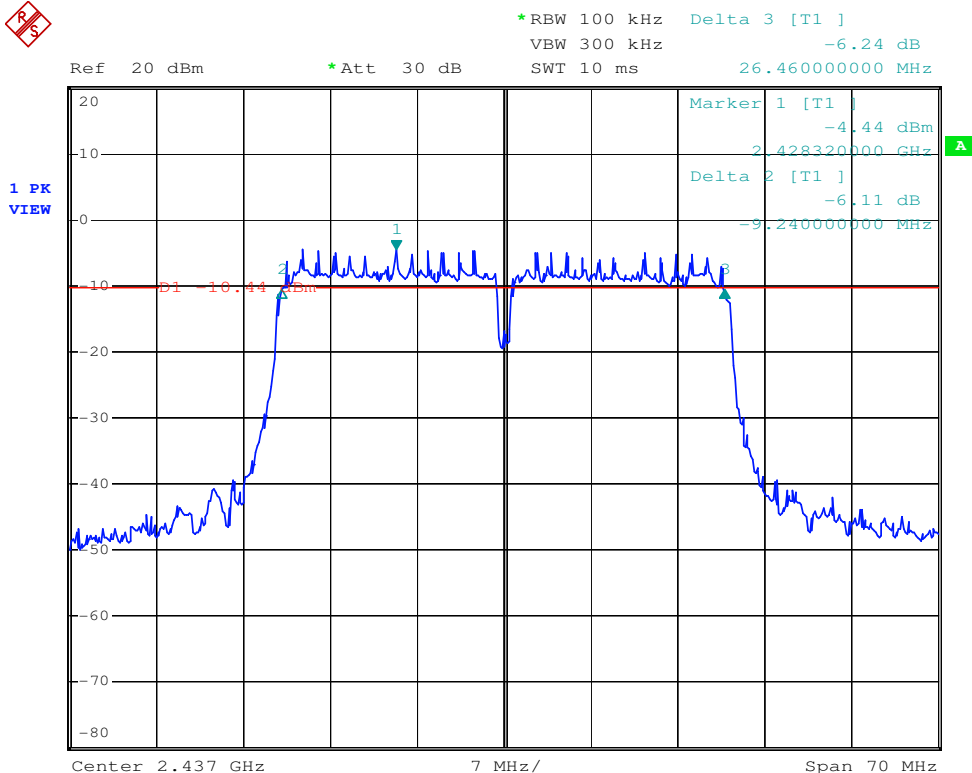
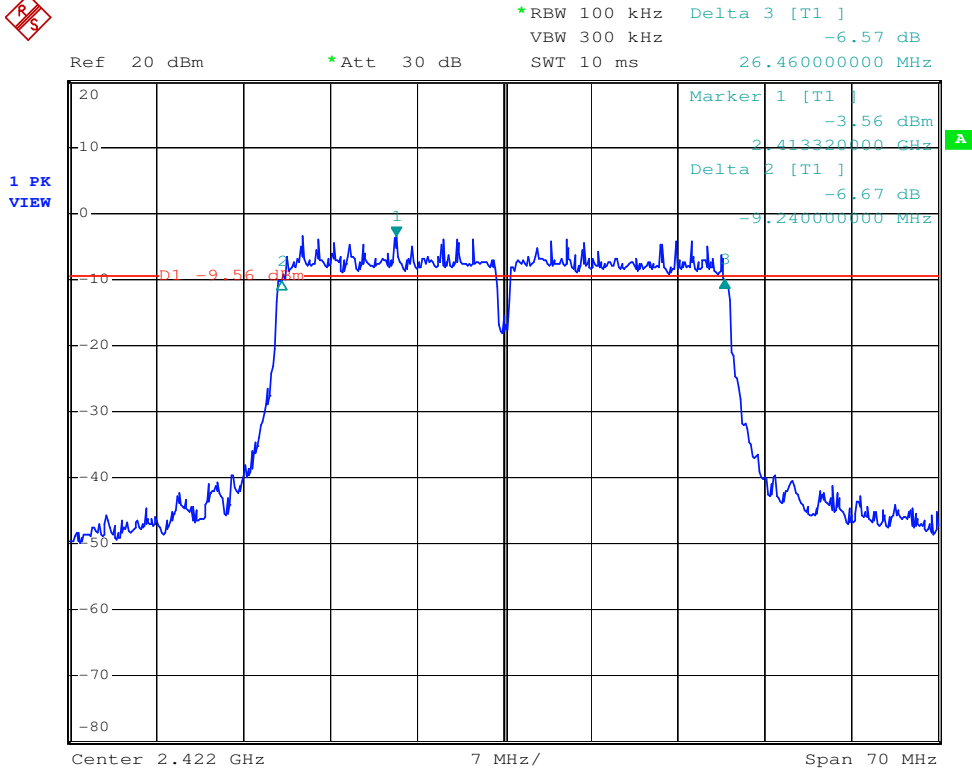
(Chain 001)

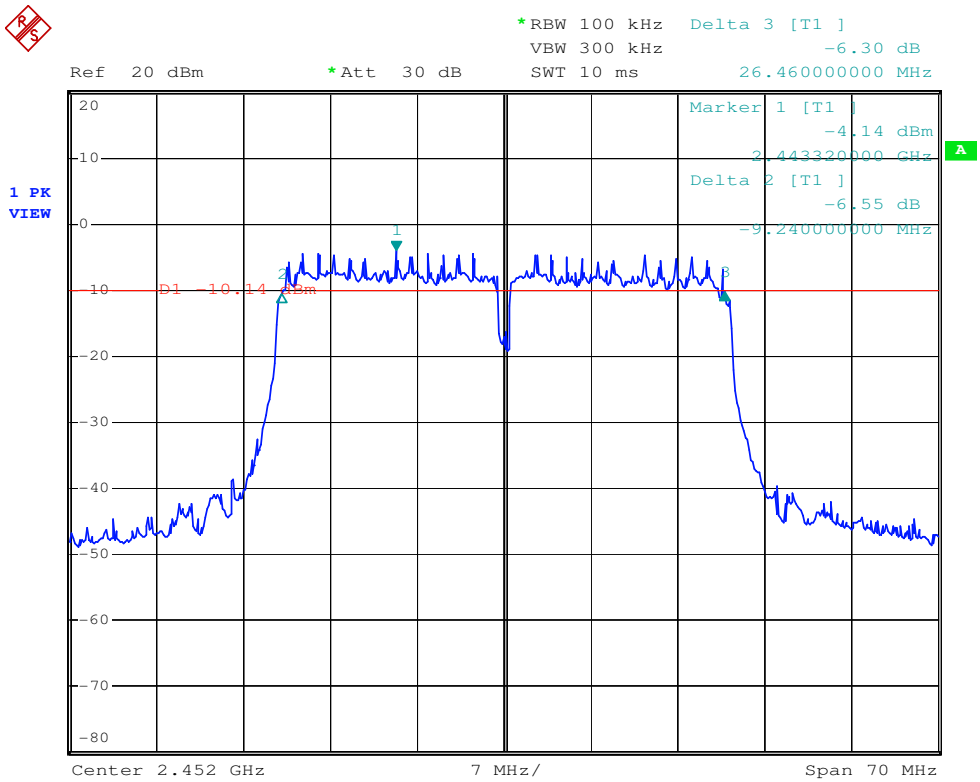




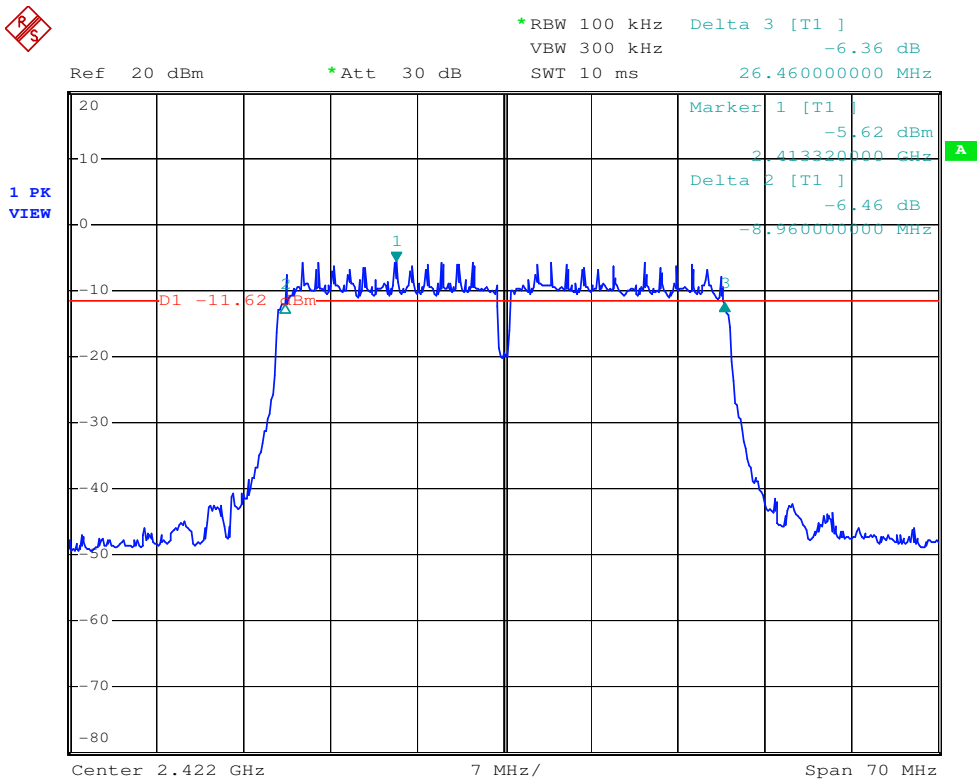


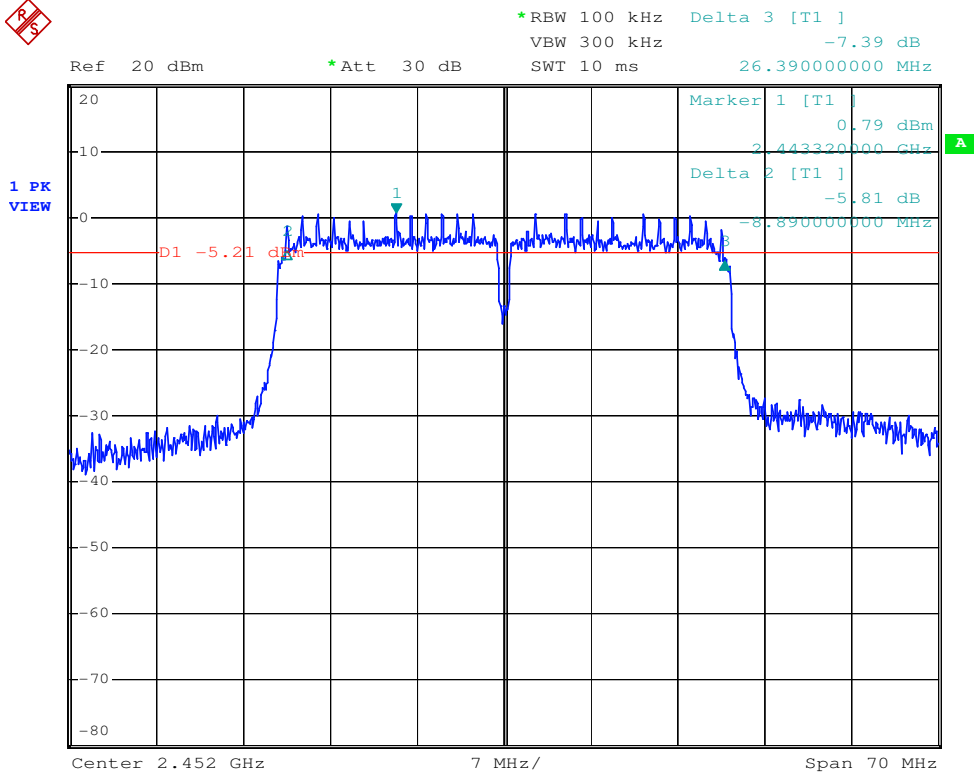
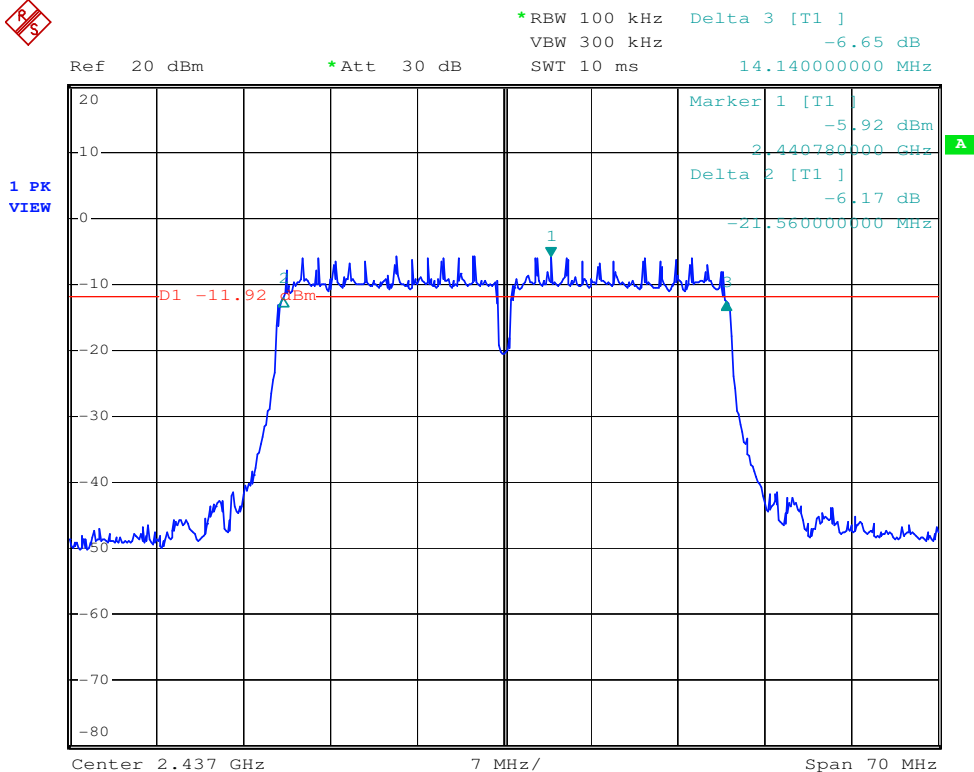
The test was performed with 802.11n(40MHz BW, 2.4G Band), the data was shown the worst case 802.11n(40MHz) 6.5Mbps. (Chain 100)





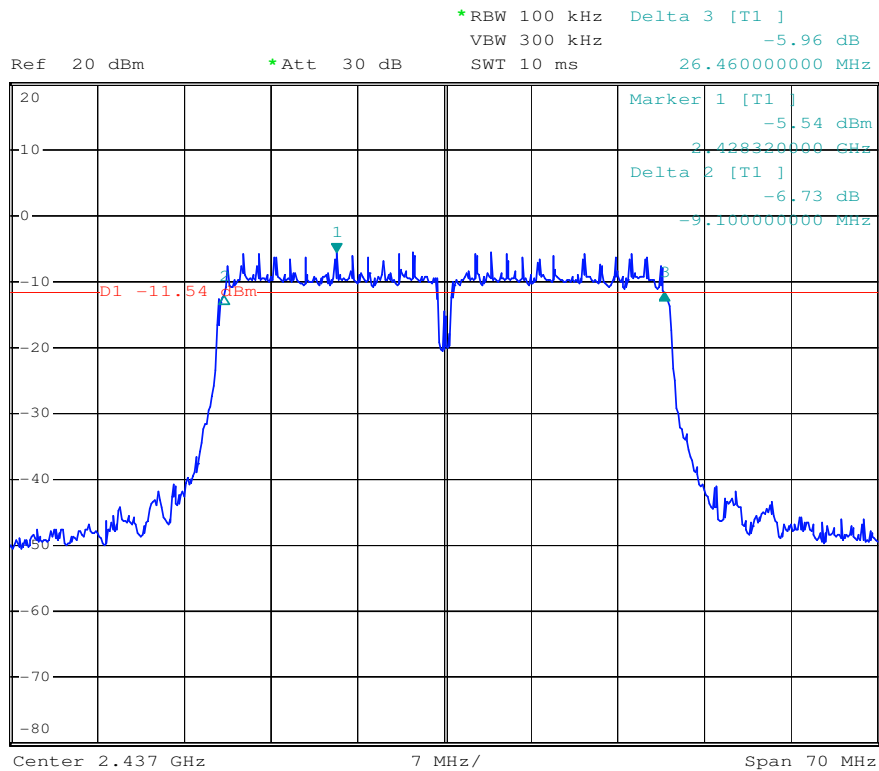
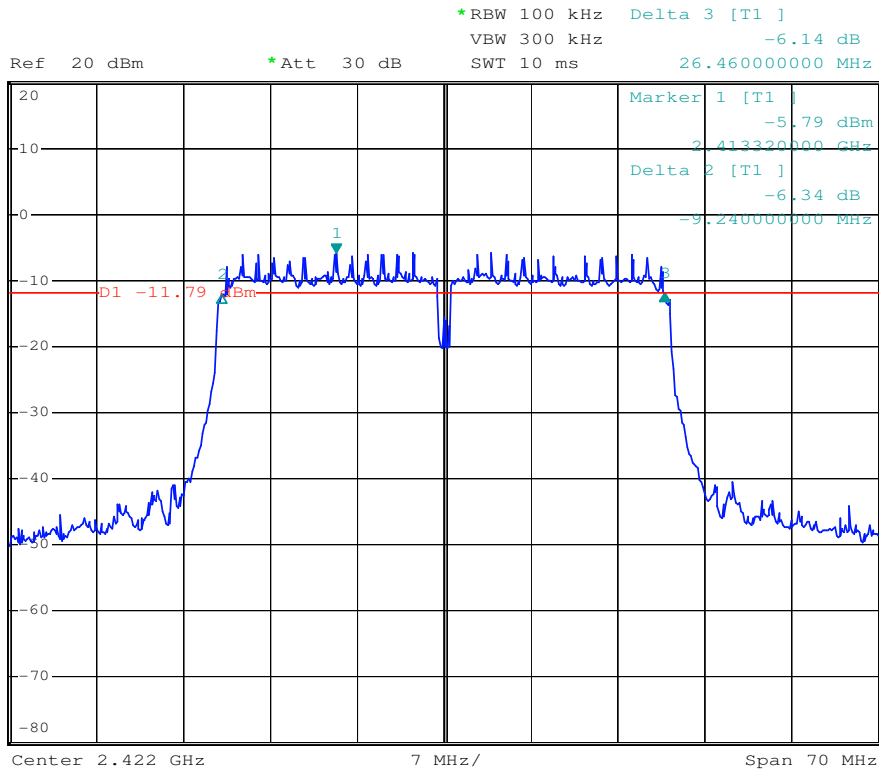
(Chain 010)

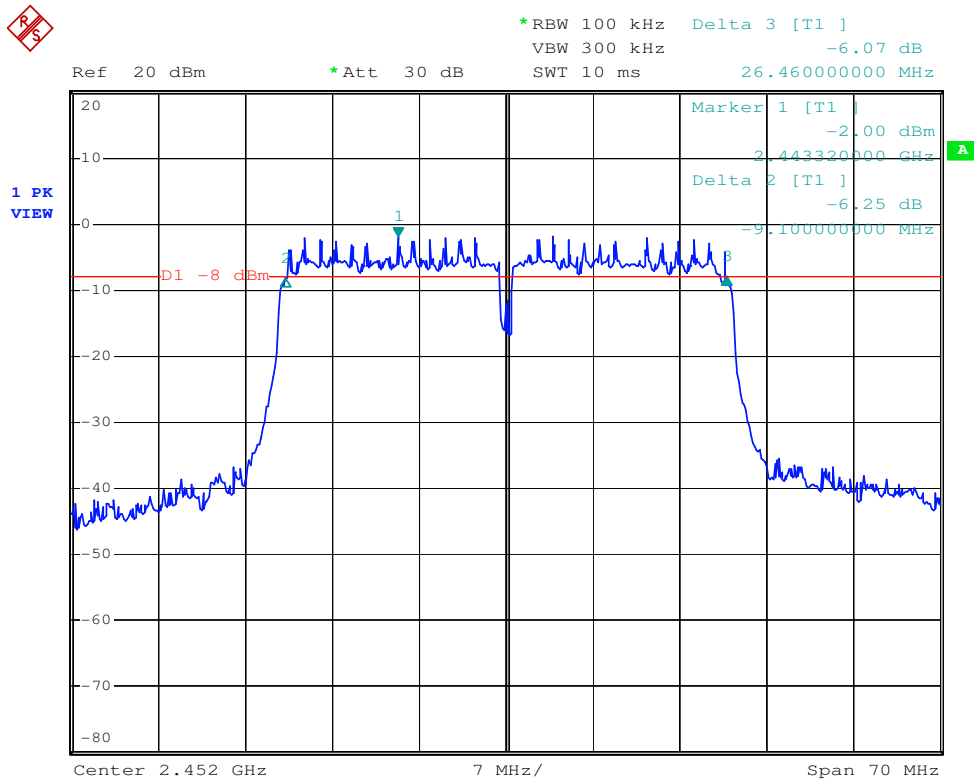




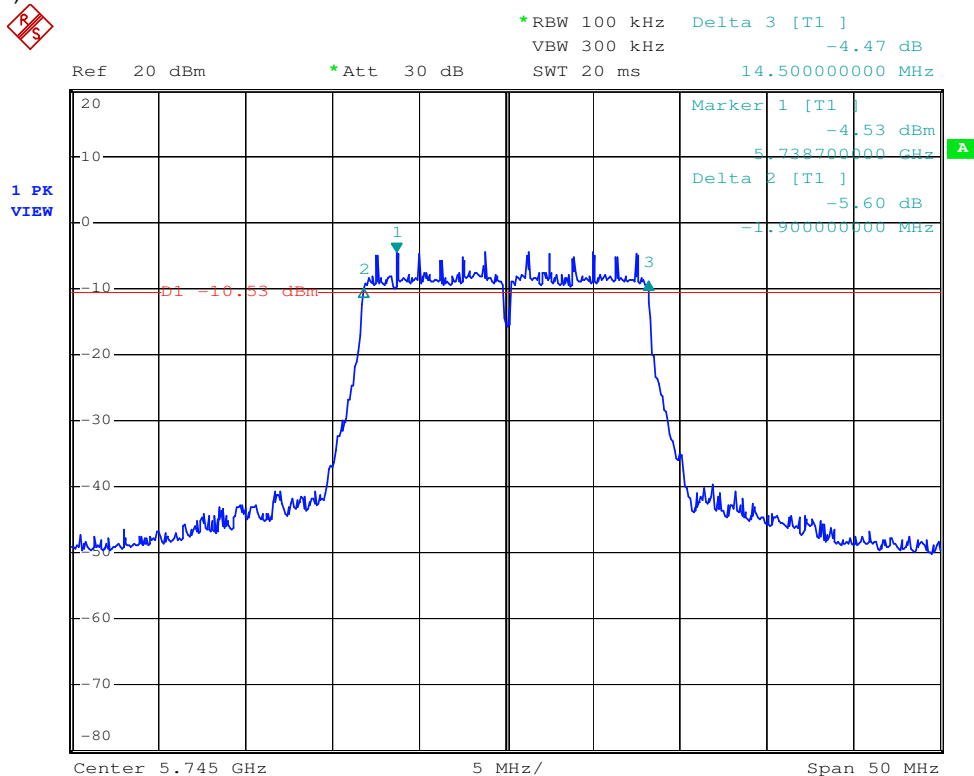


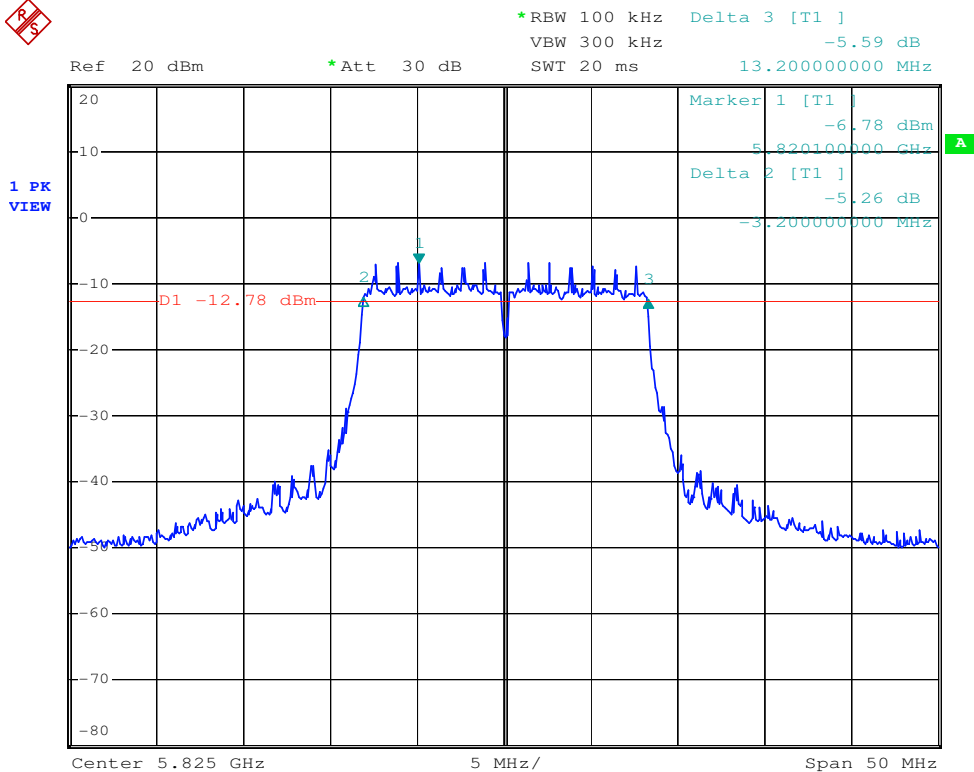
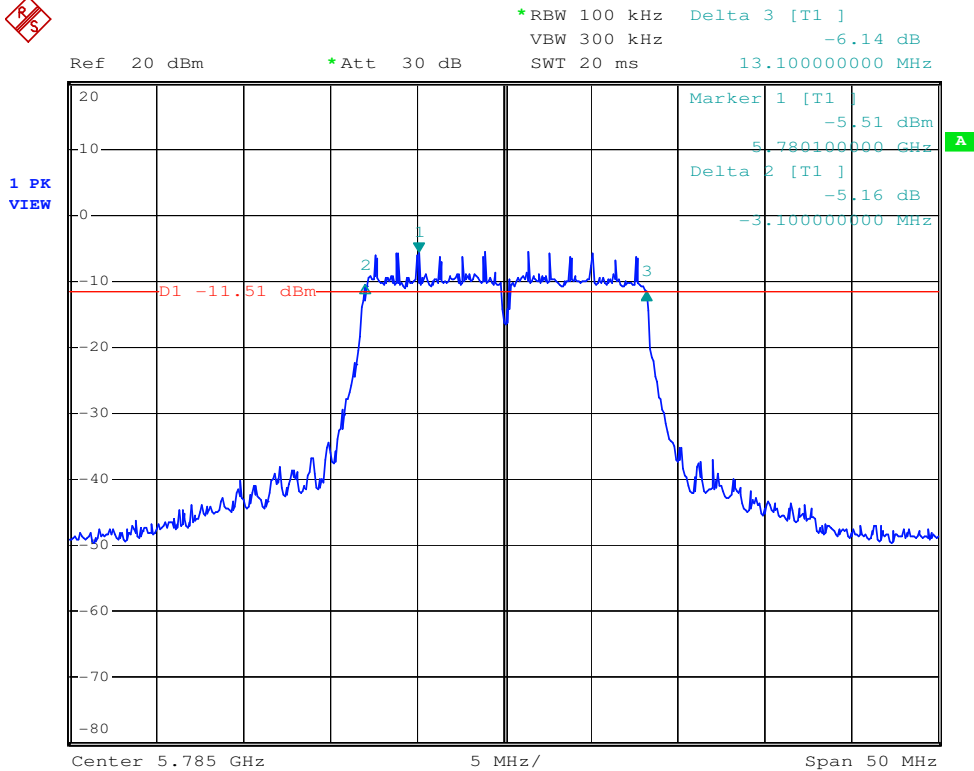
(Chain 001)





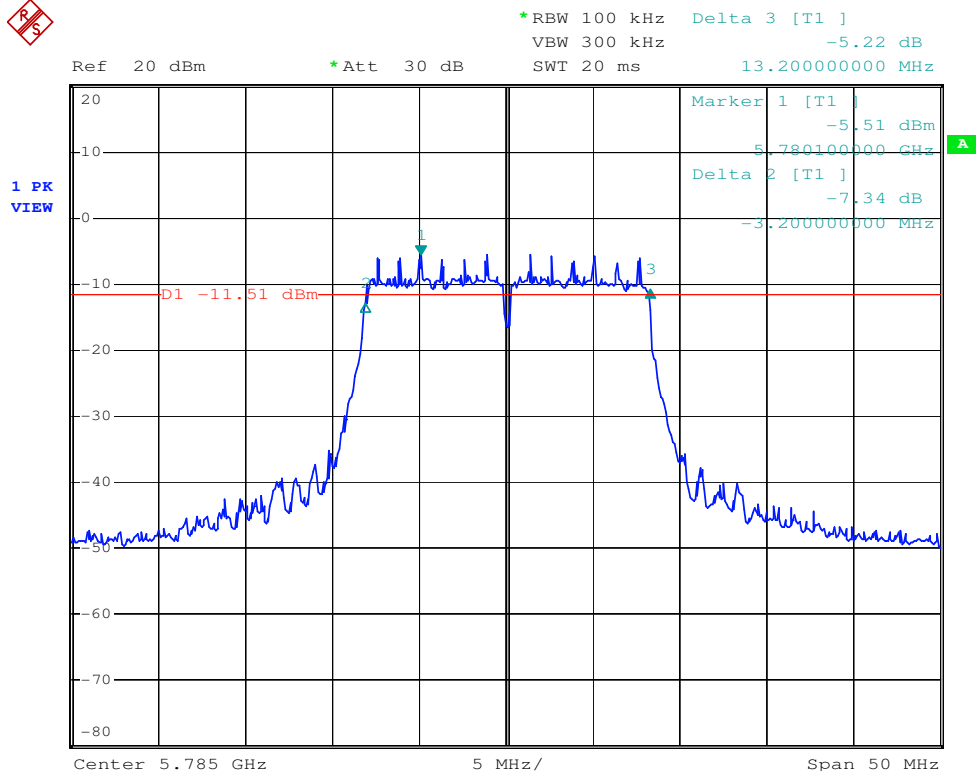
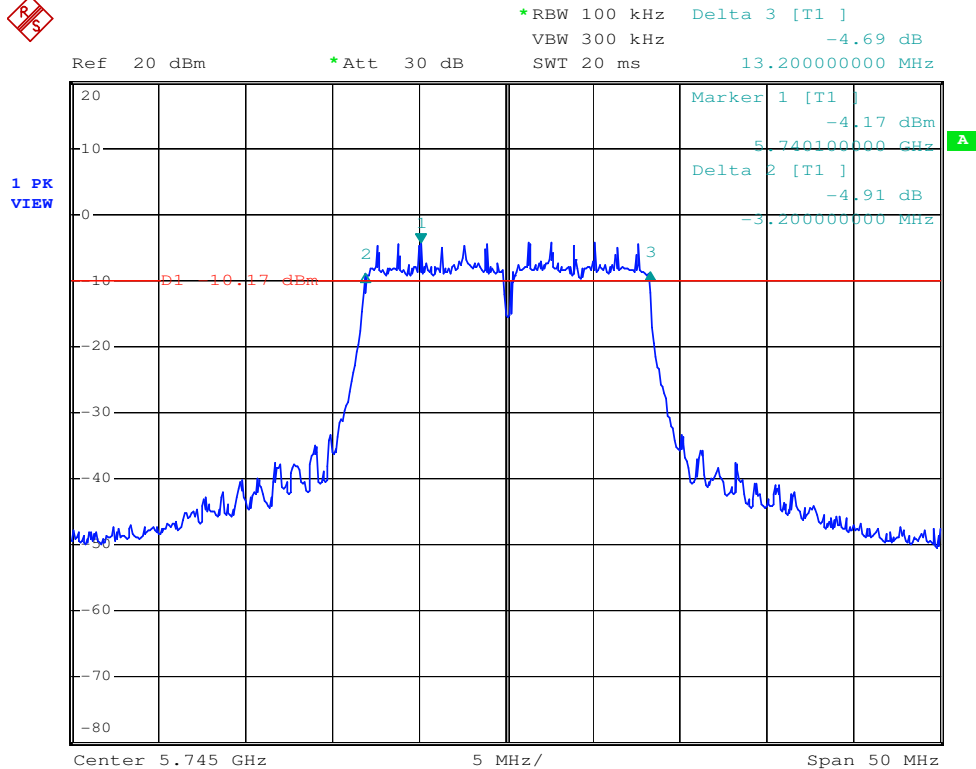
The test was performed with 802.11a, the data was shown the worst case 802.11a 6.5Mbps. (Chain 100)



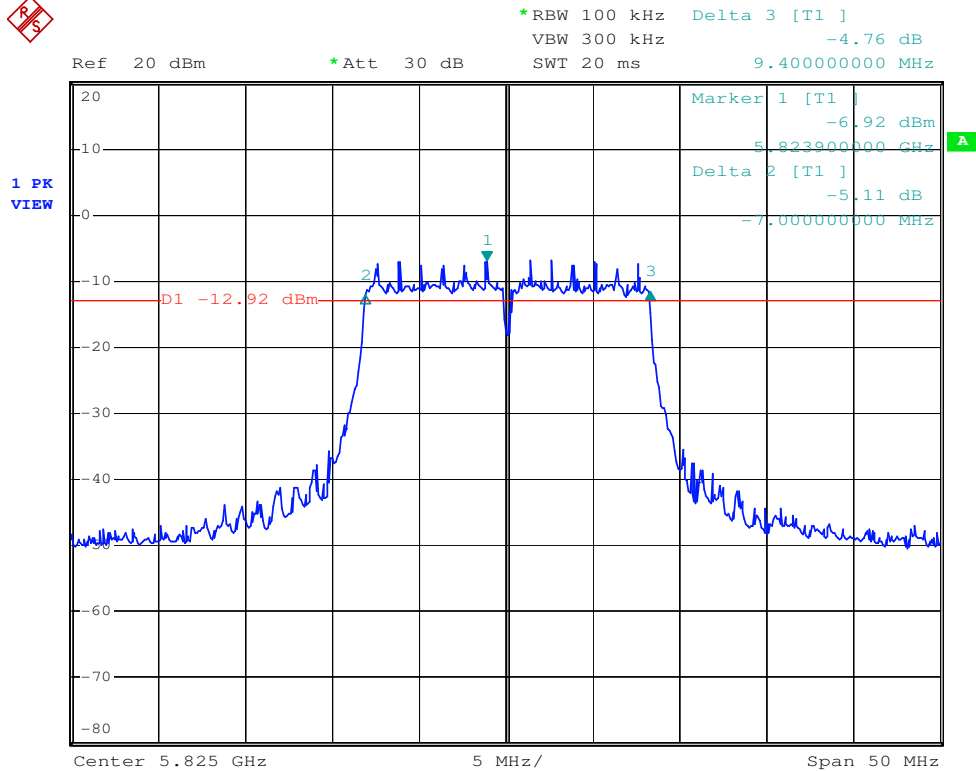




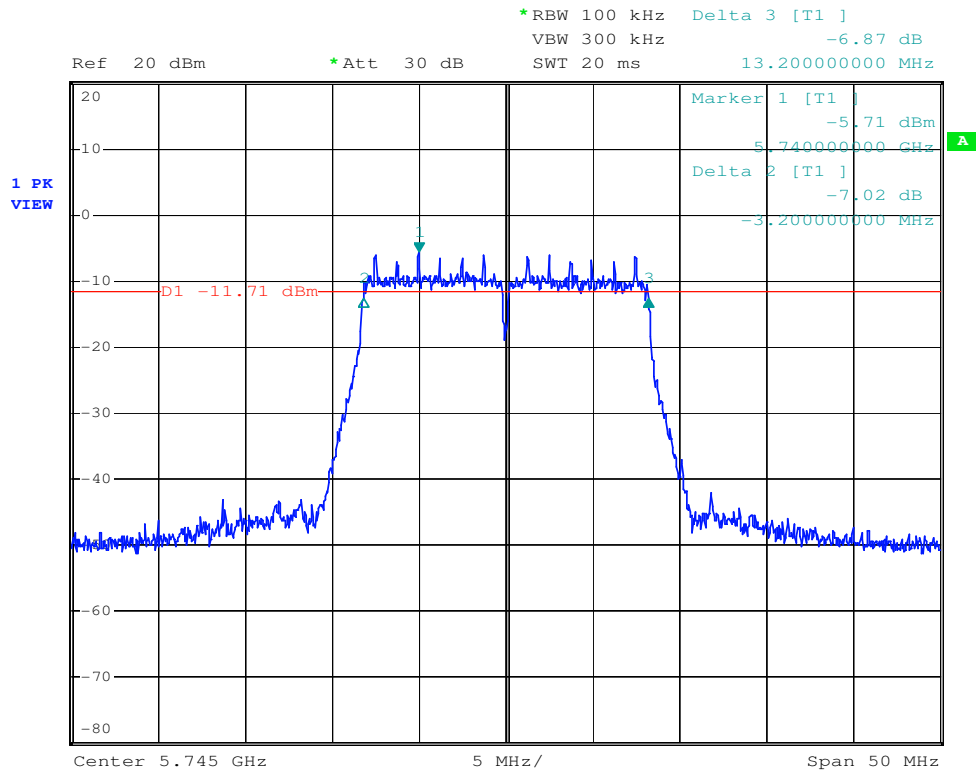
(Chain 010)

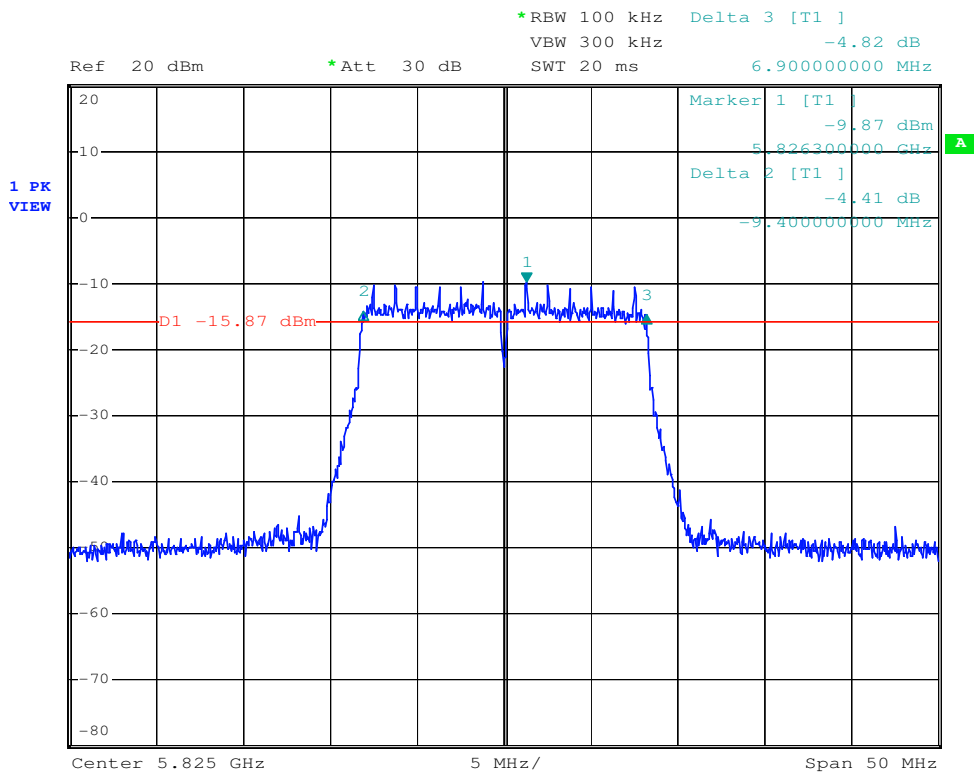
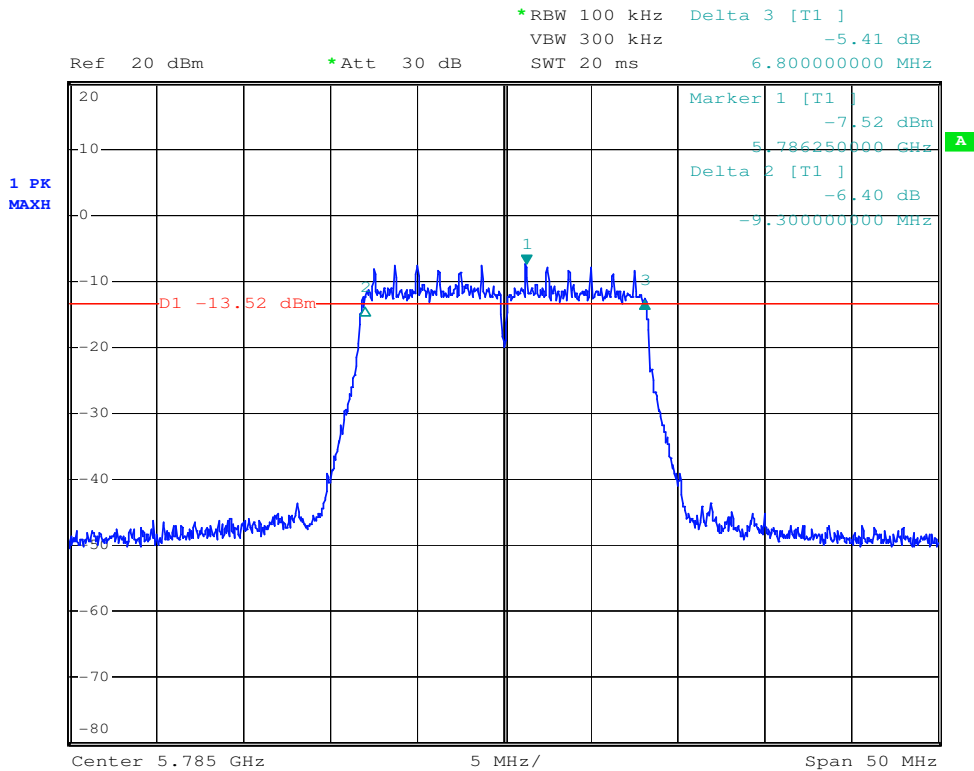


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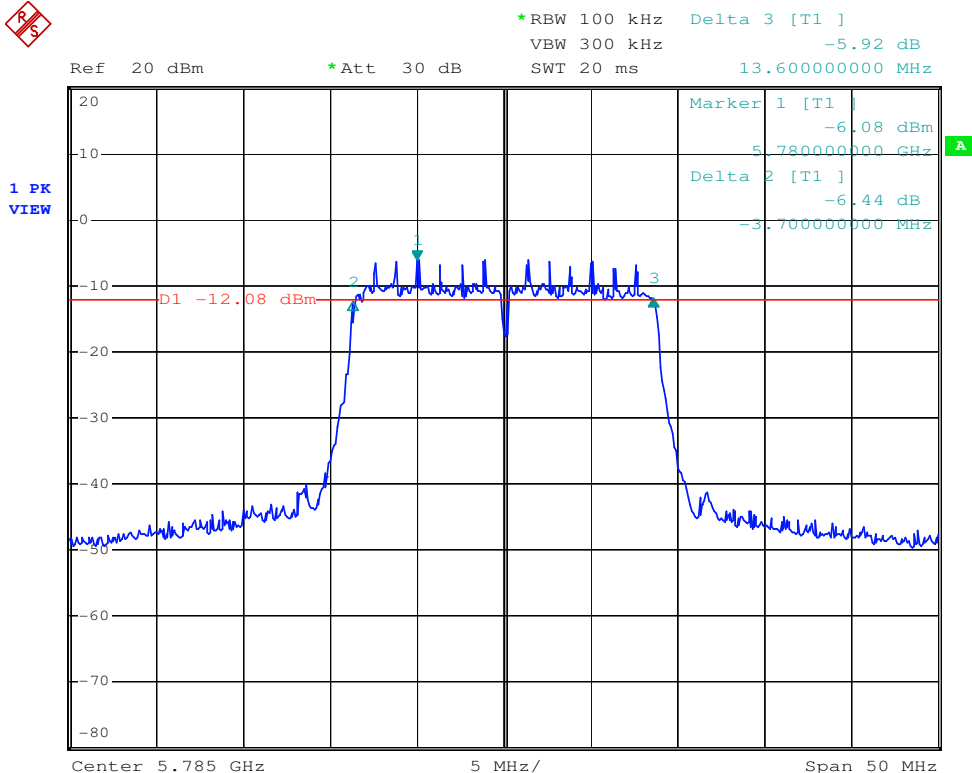
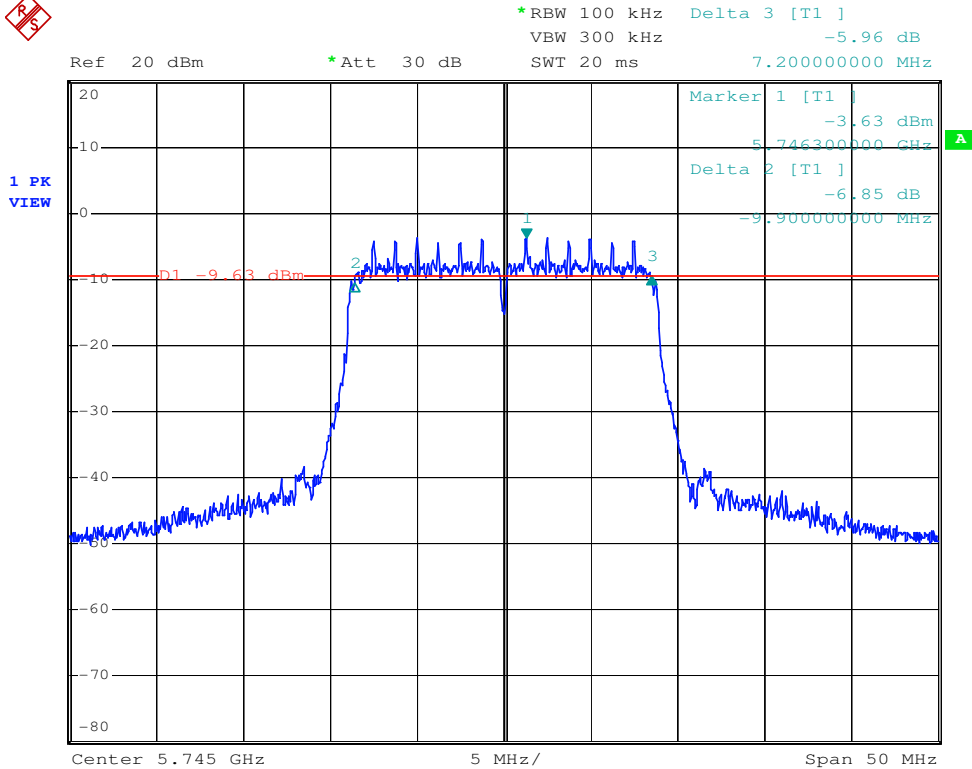
(Chain 001)

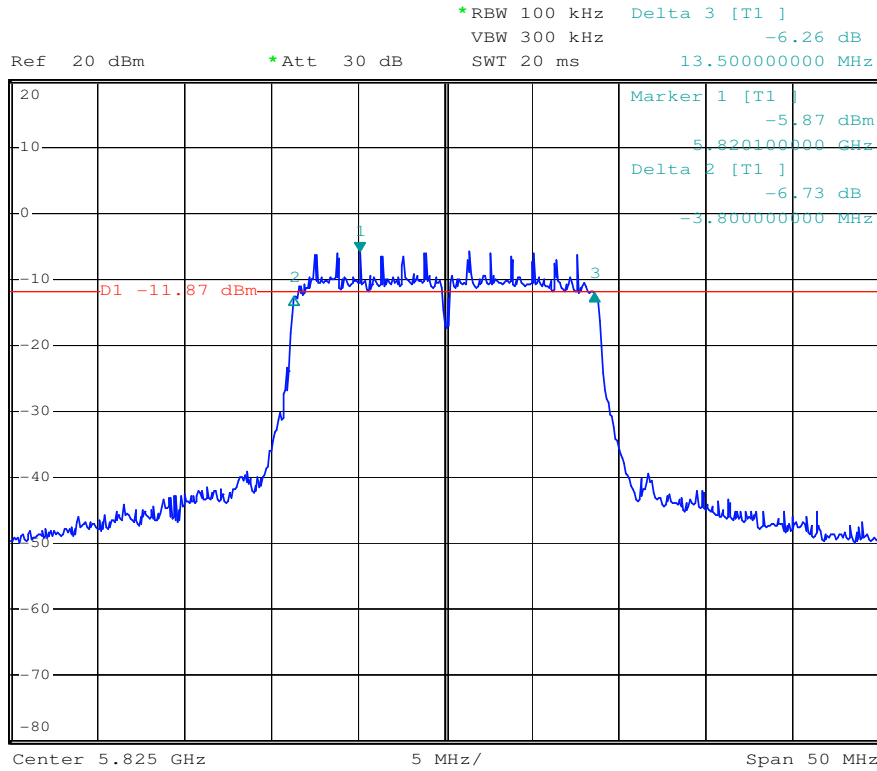




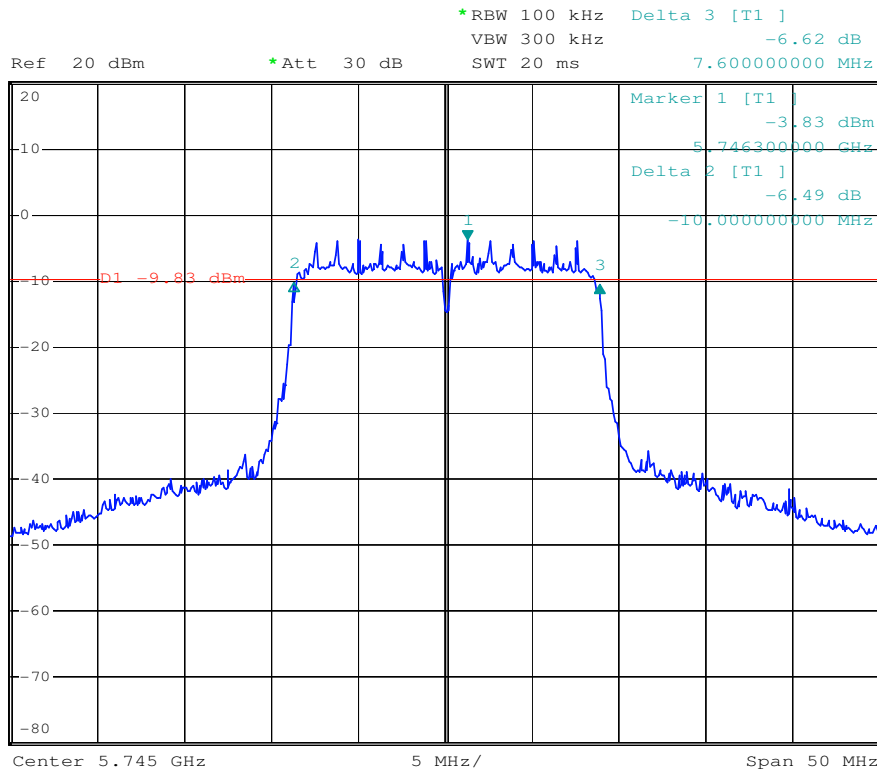


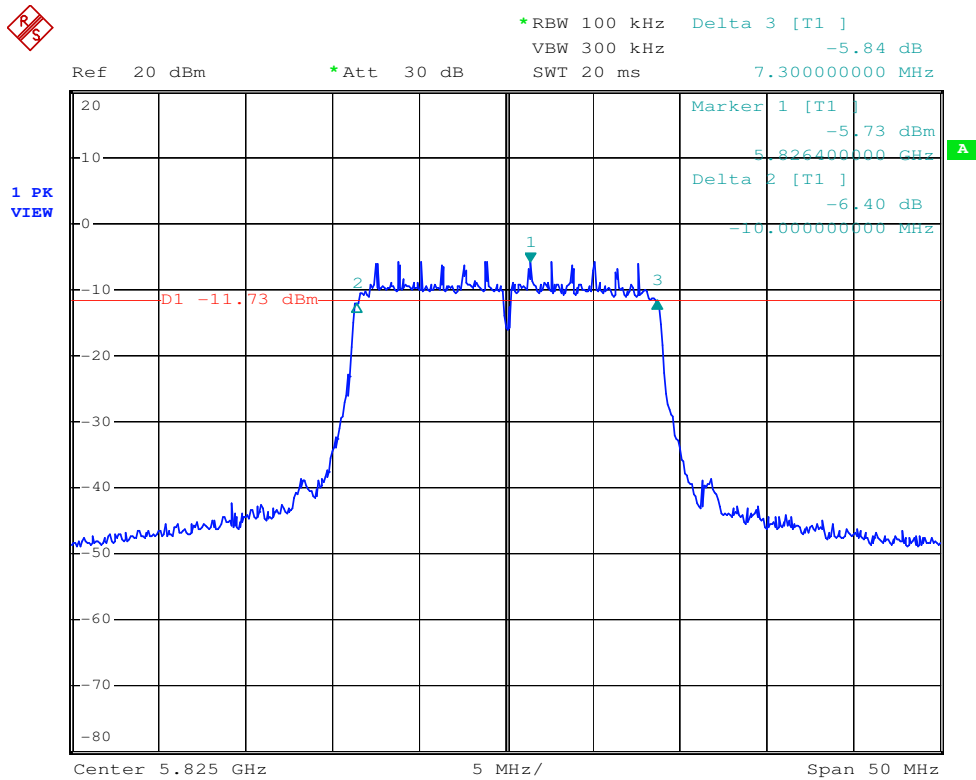
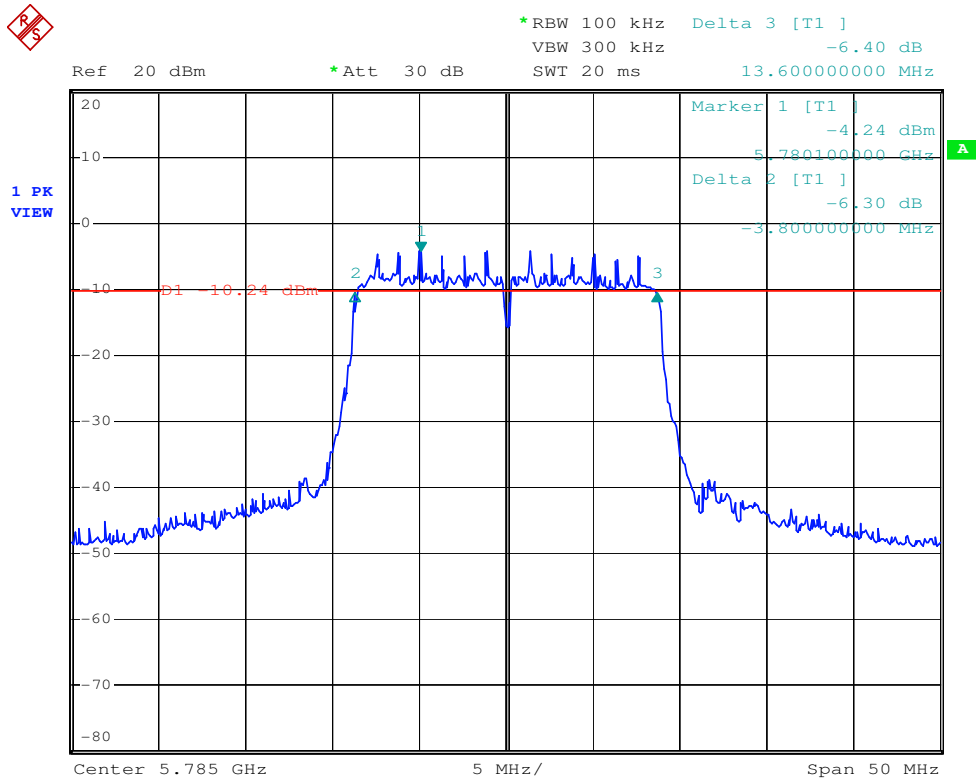
The test was performed with 802.11n(20MHz BW, 5G Band), the data was shown the worst case 802.11n(20MHz) 6.5Mbps. (Chain 100)





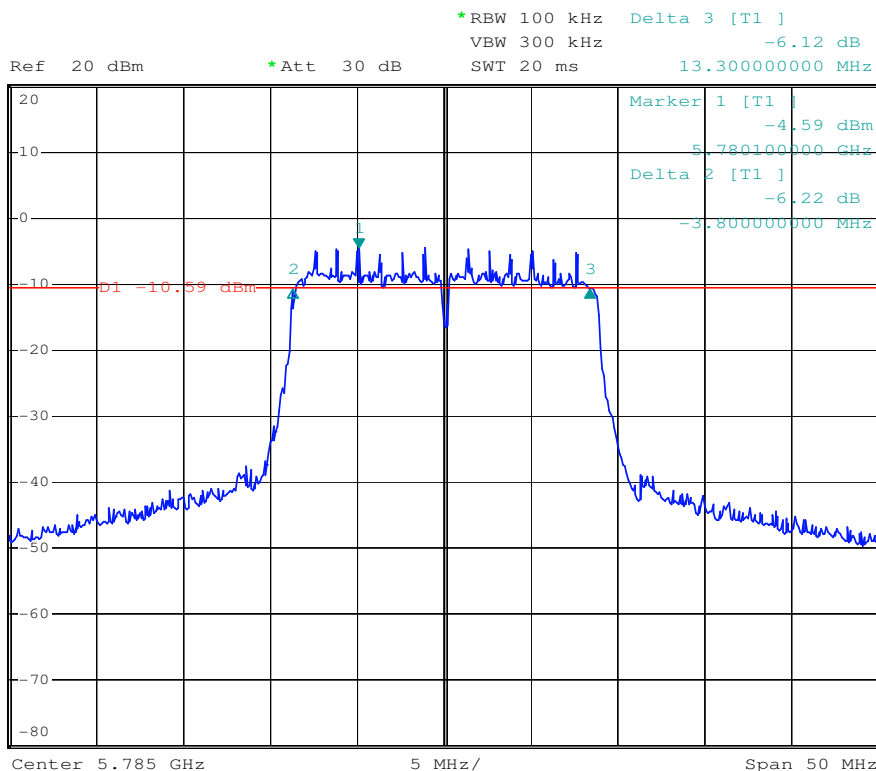
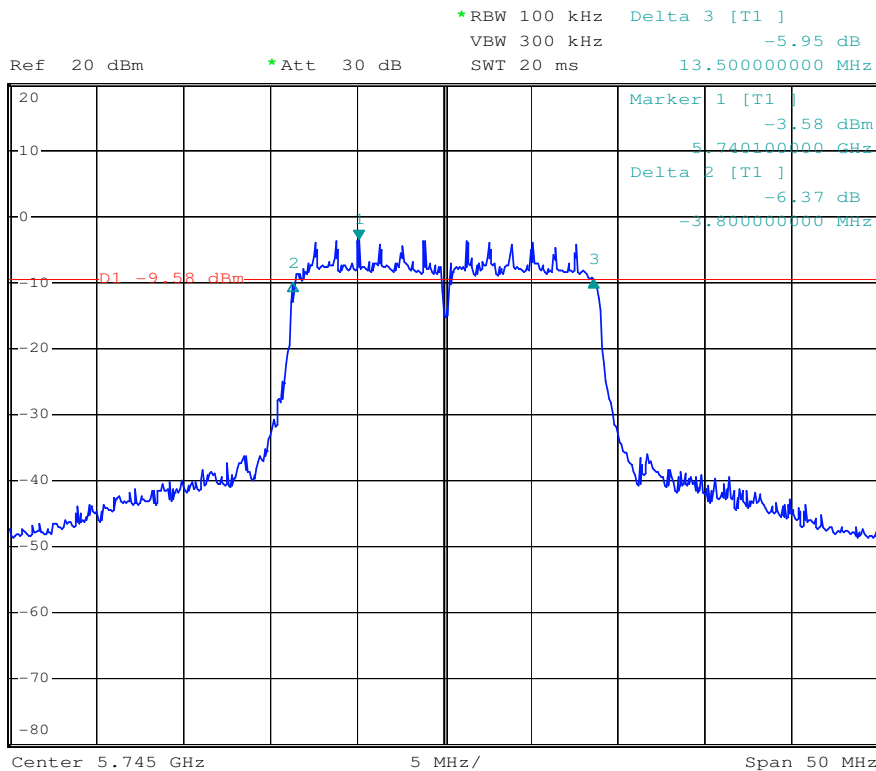
(Chain 010)

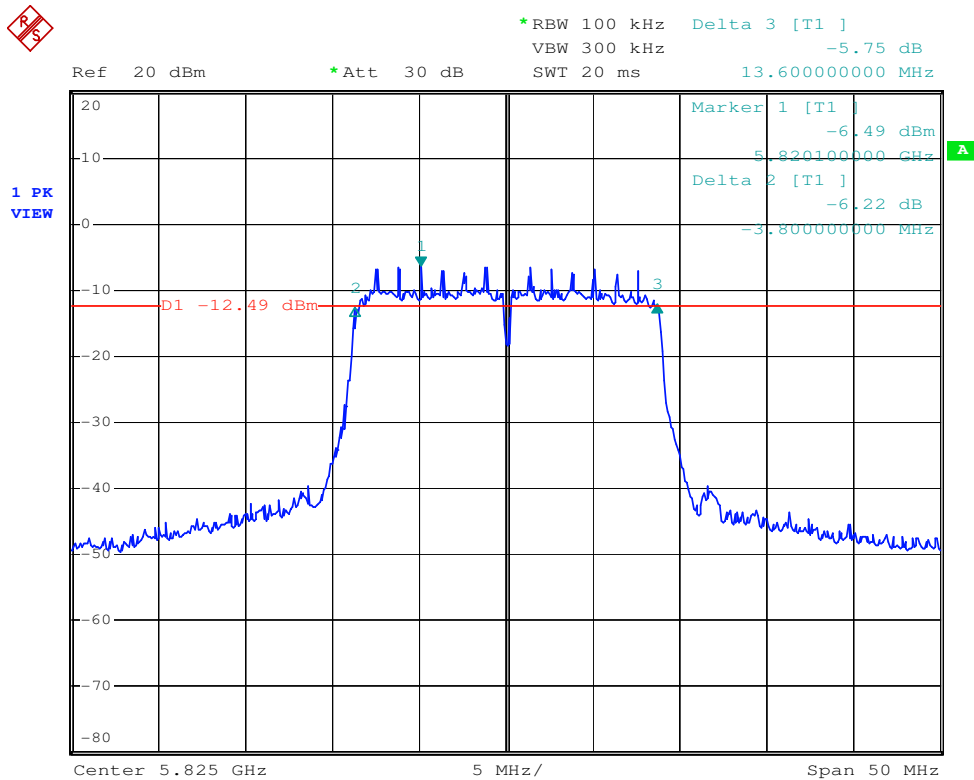




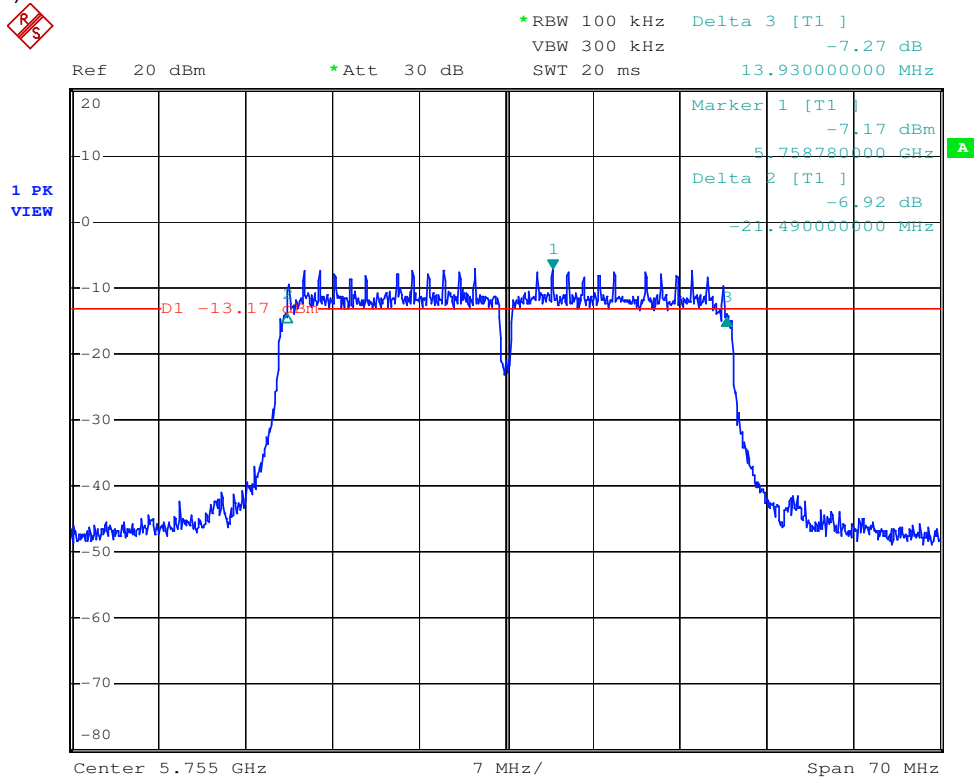


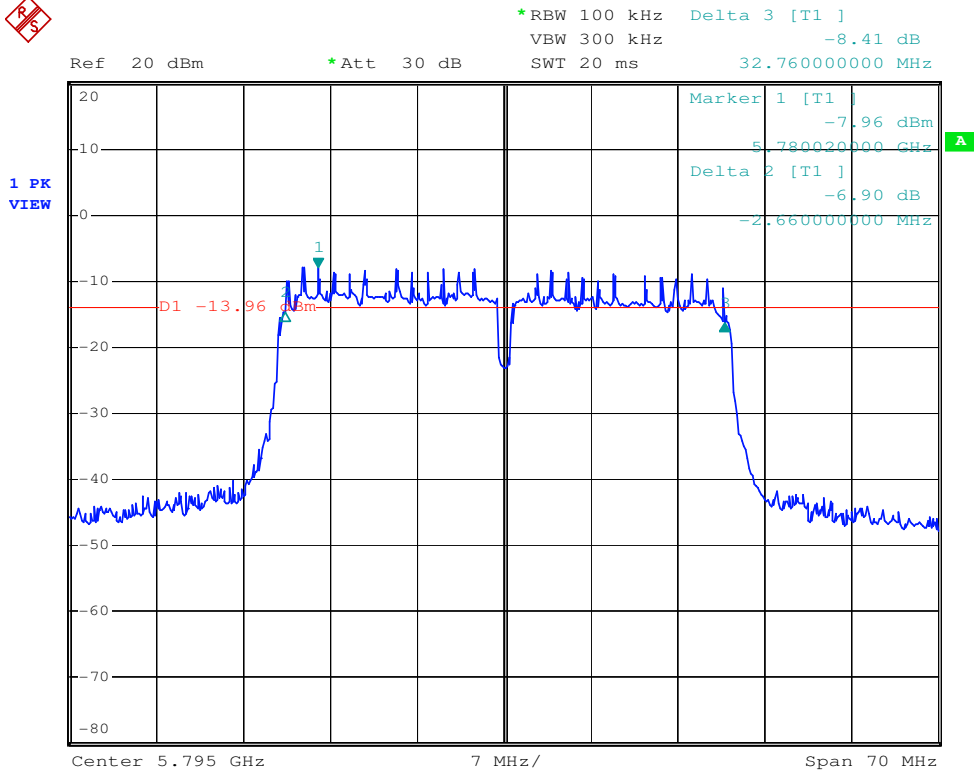
(Chain 001)



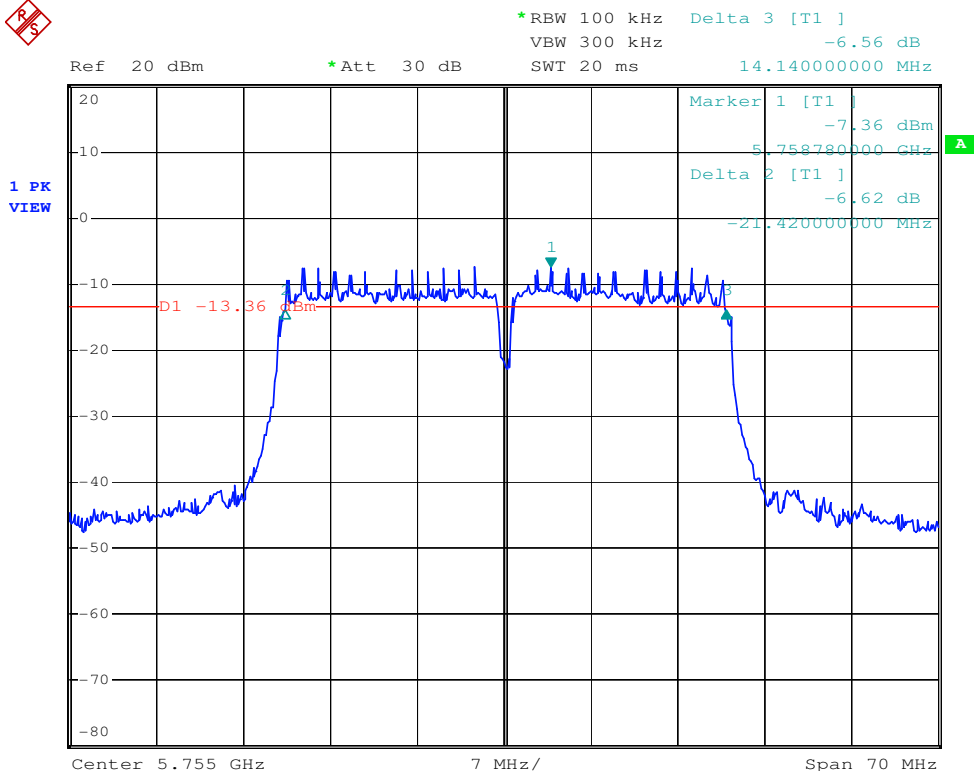


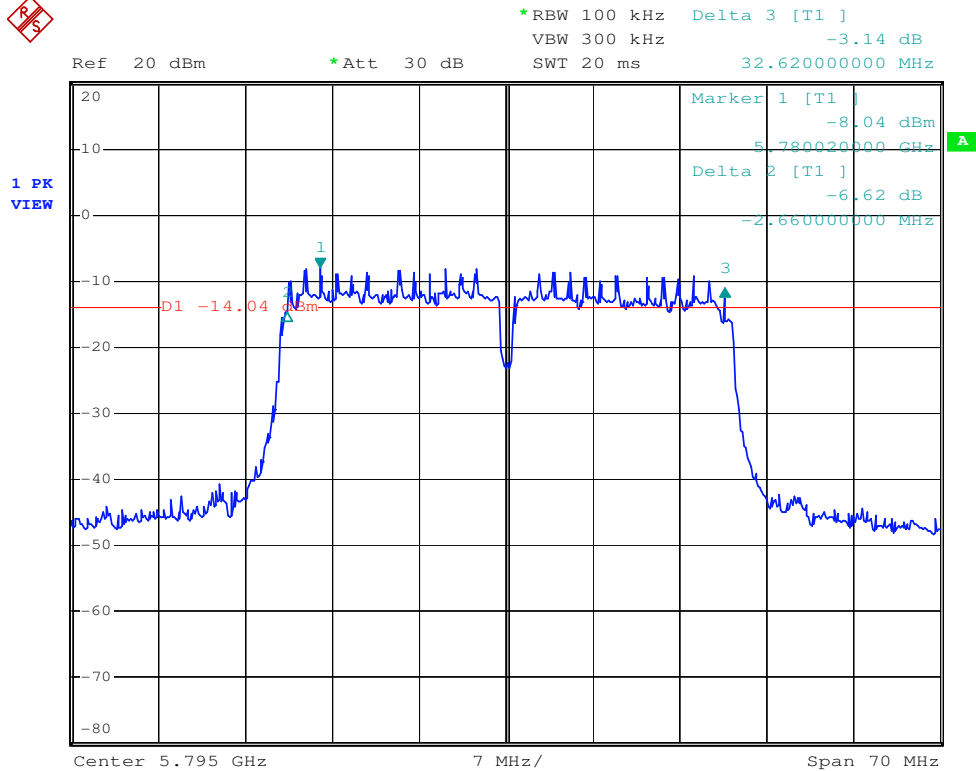
The test was performed with 802.11n(40MHz BW, 5G Band), the data was shown the worst case 802.11n(40MHz) 6.5Mbps. (Chain 100)



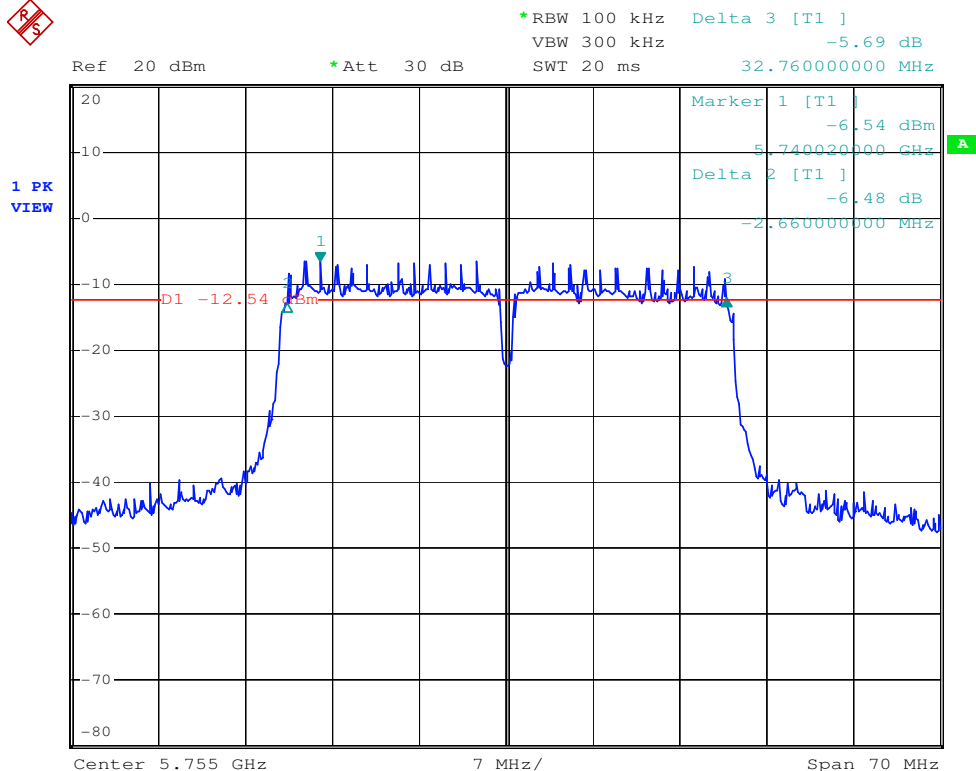


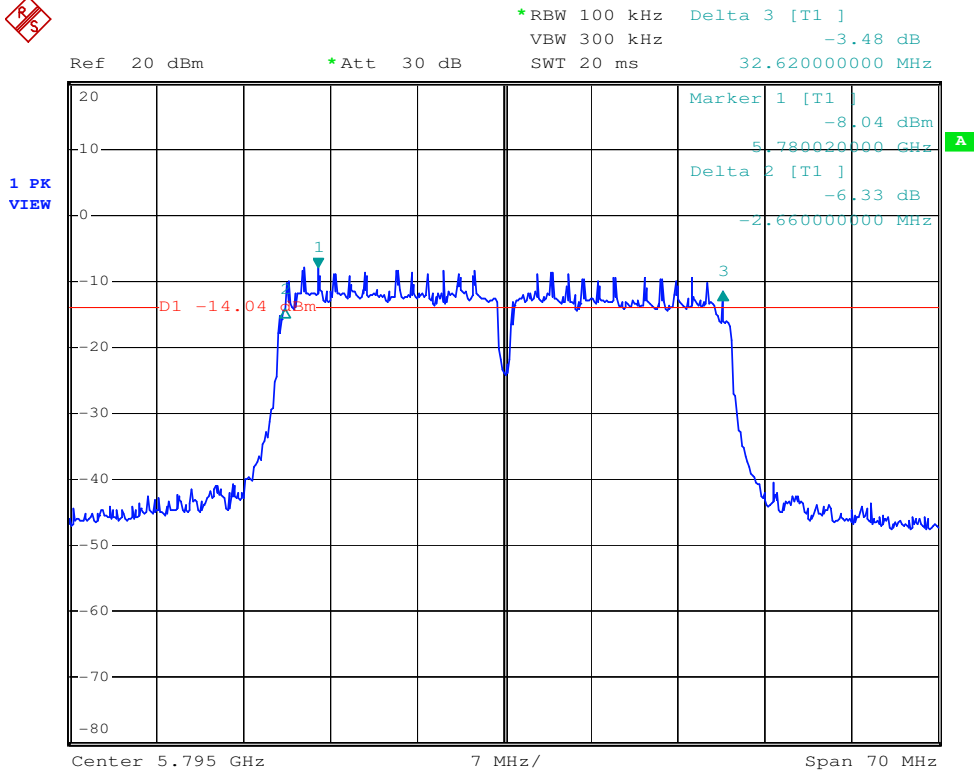
(Chain 010)





(Chain 001)





7.3.4 Radiated Emission Band Edge

Test Requirement: FCC Part15 247(c)
Test date: Mar. 26.2012
Standard Applicable: According to section 15.247(c),in any 100KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating,the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power,In addition,radiated emissions which fall in the restricted bands,as defined in section 15.205(a),must also comply with the radiated emission limits specified in 15.209(a).

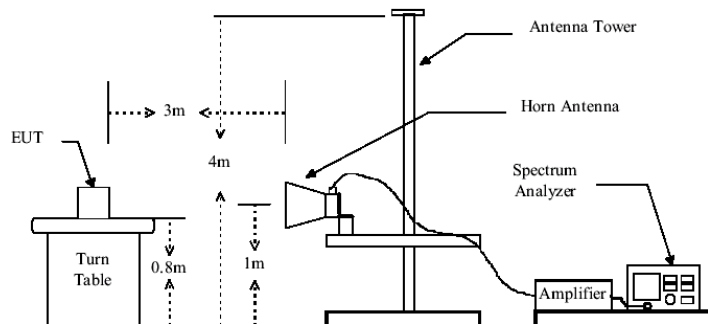
Measurement Procedure: The EUT was setup according to ANSI C63.10,2009 and tested according to ANSI C63.10,2009 for compliance to FCC 47 CFR 15.247 requirements.The EUT is placed on a turn table which is 0.8 m above ground.The turn table is rotated 360 degrees to determine to the position of the maximum emission level.The EUT was positioned such that the distance from antenna to the EUT was 3 meters.The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level This is repeated for both horizontal and vertical polarization of the antenna.In order to find the maximum emission,all of the interface cables were manipulated according to ANSI C63.10:2009 on radiated measurement.

Spectrum analyzer parameters setting as shown below:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

Radiated Emission Test Set-up Frequency Over 1GHz



The field strength is calculated by adding the Antenna Factor, Preamplifier Factor & Cable Factor. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

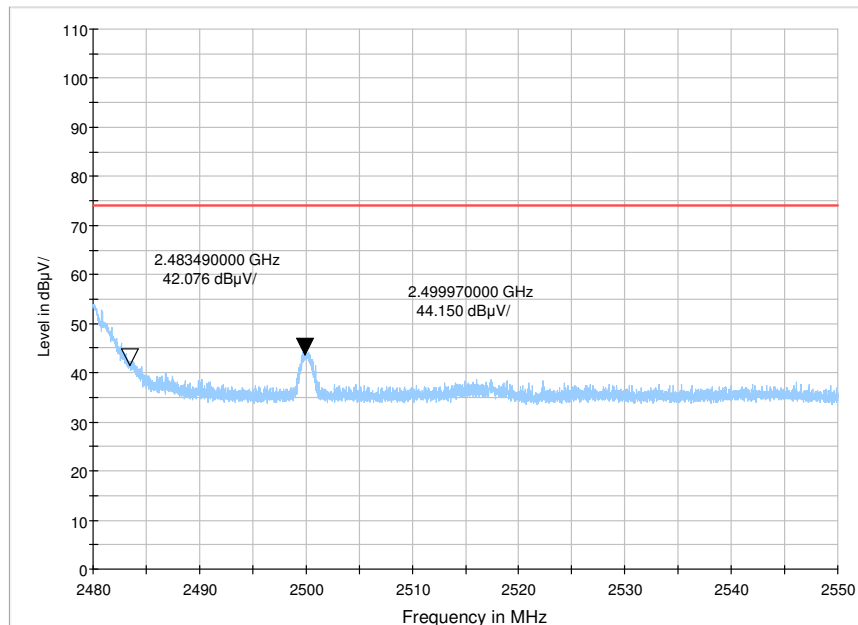
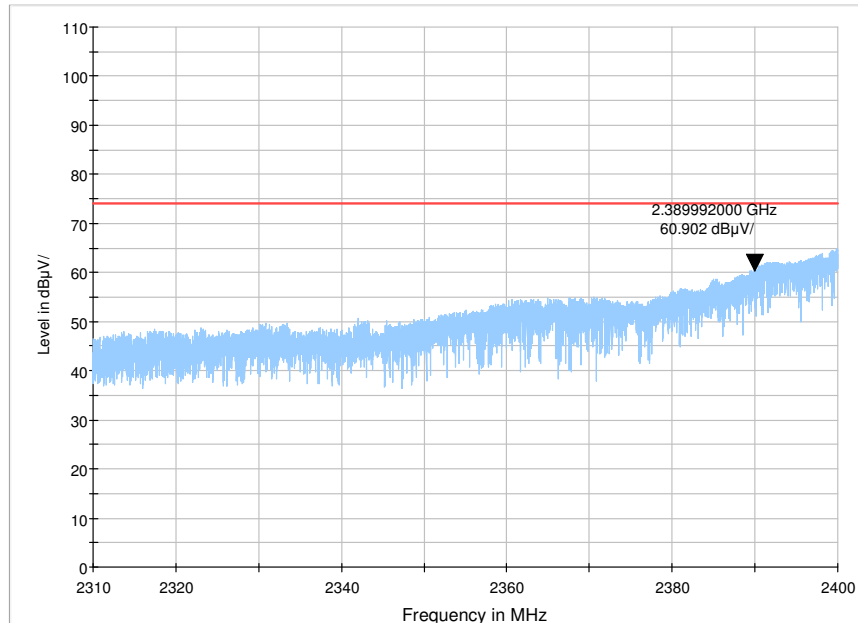
7.3.4.1 Measurement Result (With Dipole Antenna):



CH 802.11b Mode 1Mbps

(Chain 100)

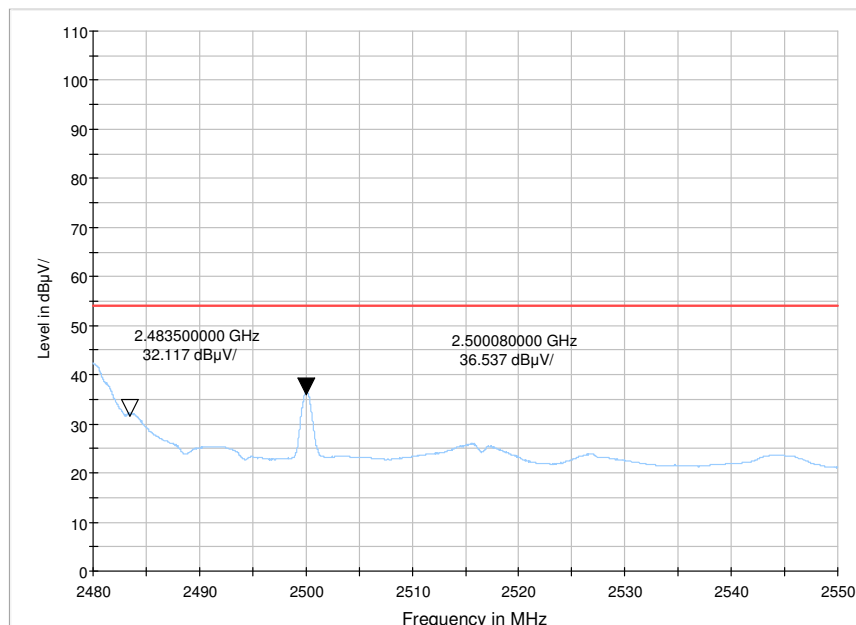
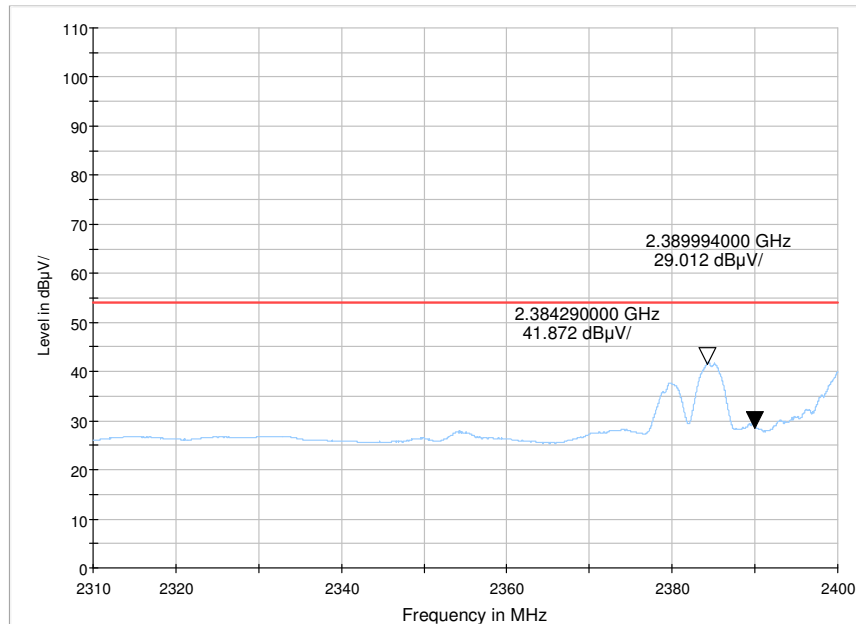
Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2389.99	73.10	-12.2	60.90	74.0	-13.10
2499.97	54.25	-10.1	44.15	74.0	-29.85

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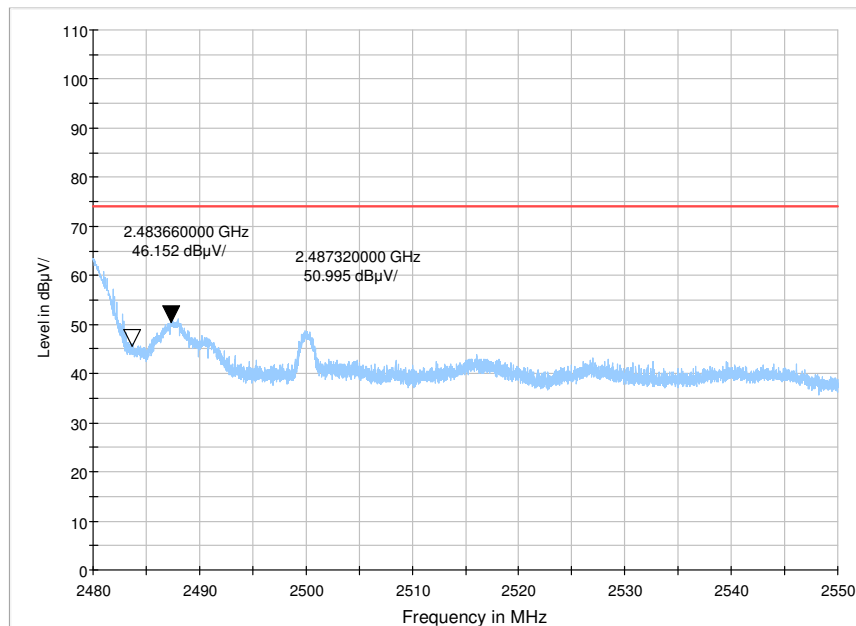
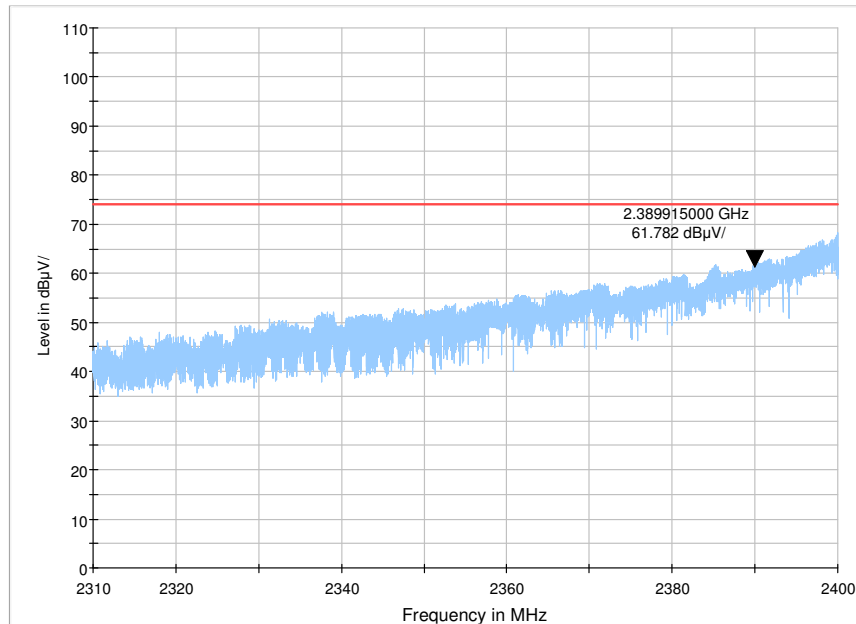
Horizontal, AVG Detector:



Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.29	54.07	-12.2	41.87	54.0	-12.13
2500.08	46.64	-10.1	36.54	54.0	-17.46

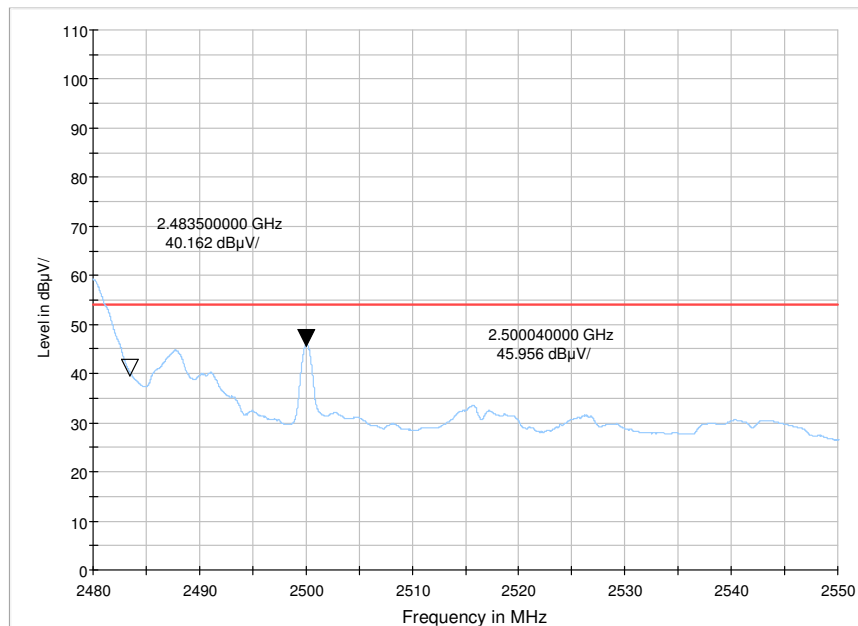
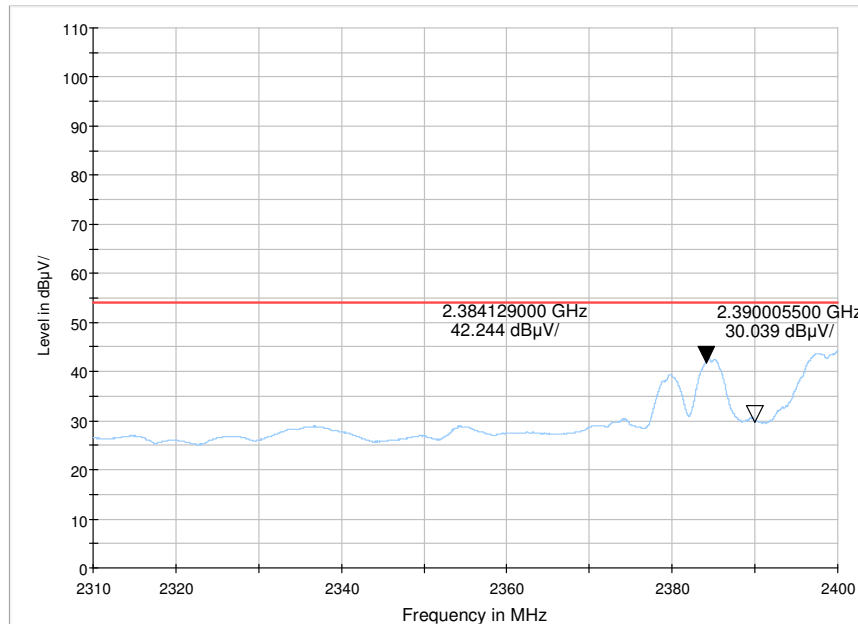
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.92	73.98	-12.2	61.78	74.0	-12.22
2487.32	61.10	-10.1	51.00	74.0	-23.00



Vertical, AVG Detector:

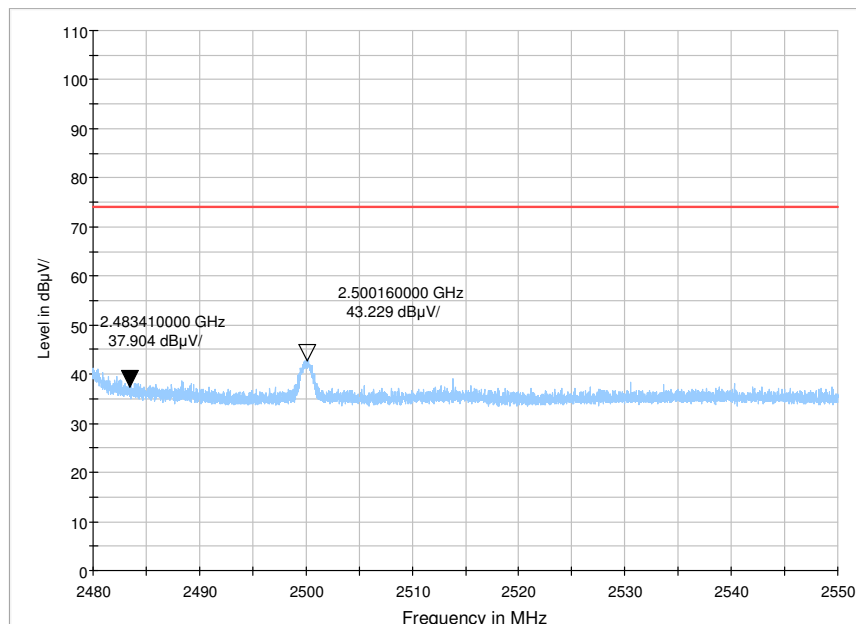
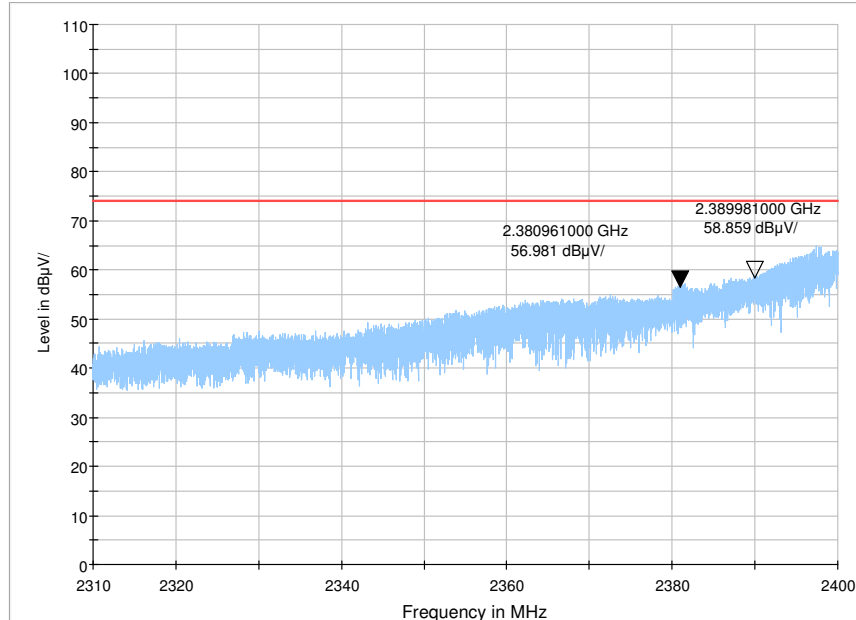


Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.13	54.44	-12.2	42.24	54.0	-11.76
2500.04	56.06	-10.1	45.96	54.0	-8.04



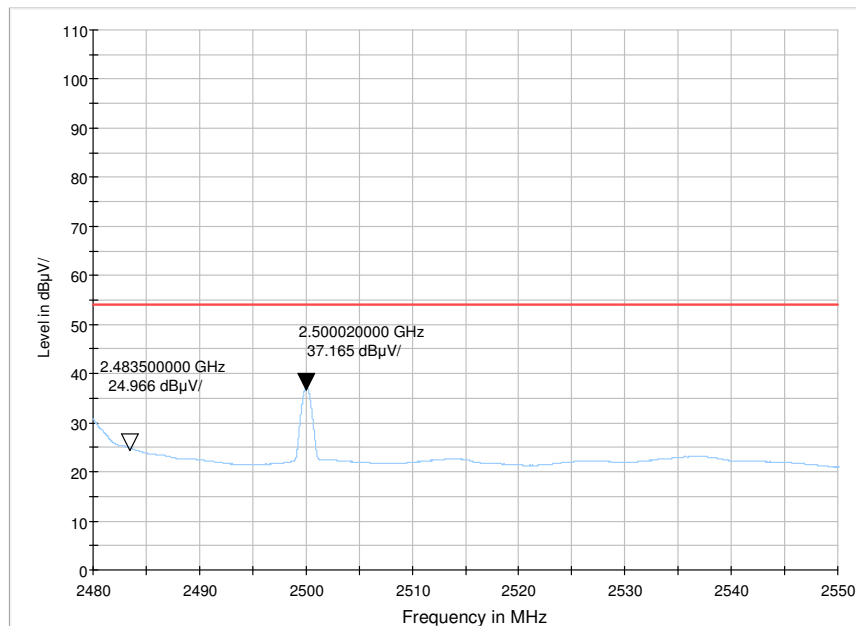
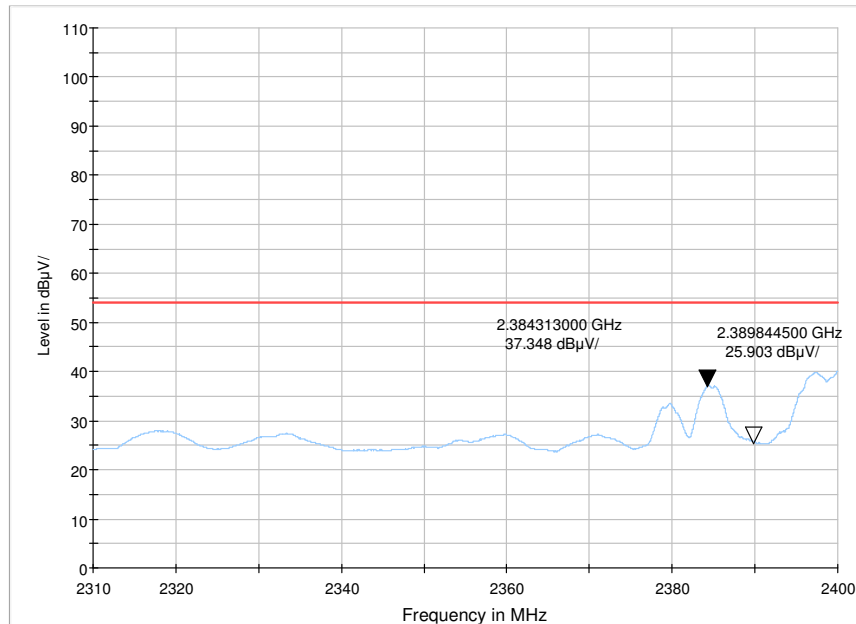
(Chain 010)

Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.98	71.06	-12.2	58.86	74.0	-15.14
2500.16	53.33	-10.1	43.23	74.0	-30.77

Horizontal, AVG Detector:

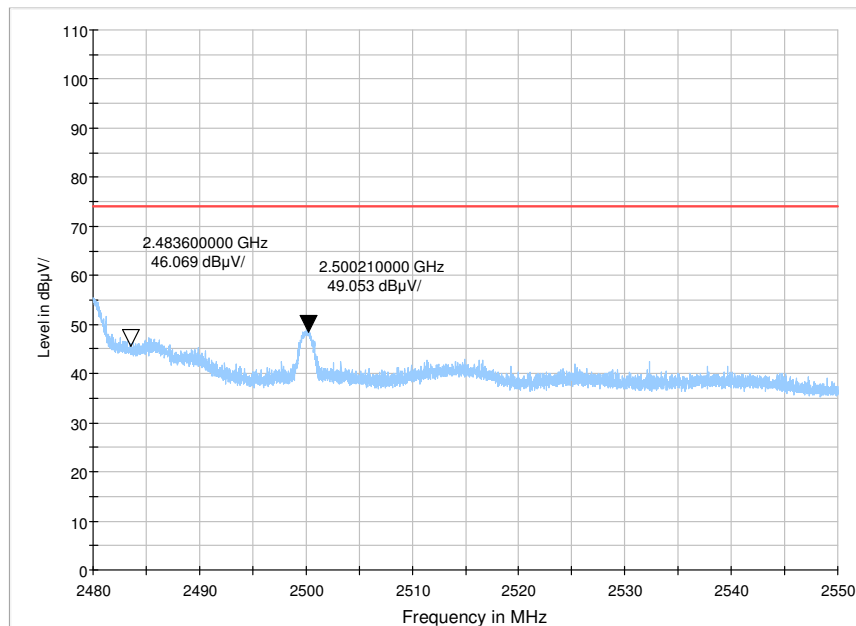
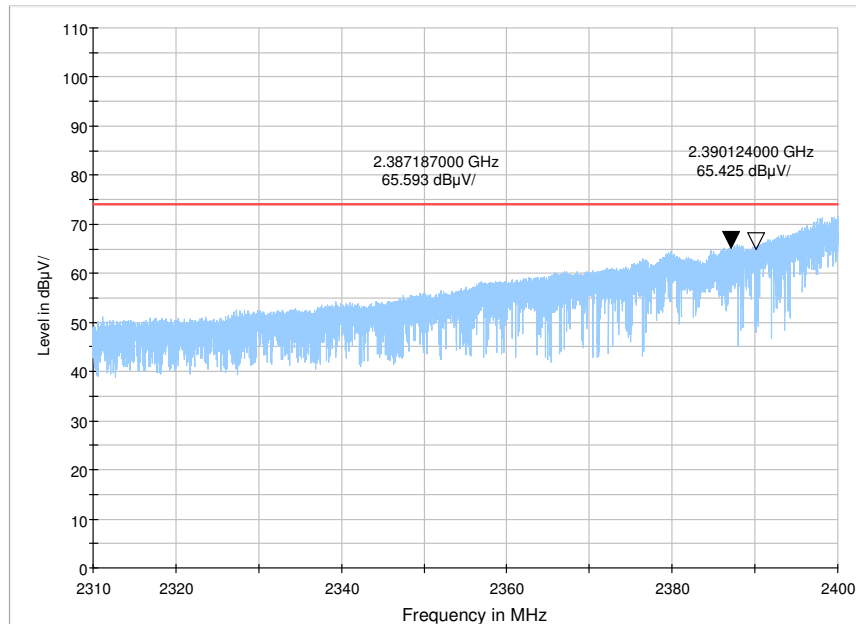


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.31	49.55	-12.2	37.35	54.0	-16.65
2500.02	47.27	-10.1	37.17	54.0	-16.83



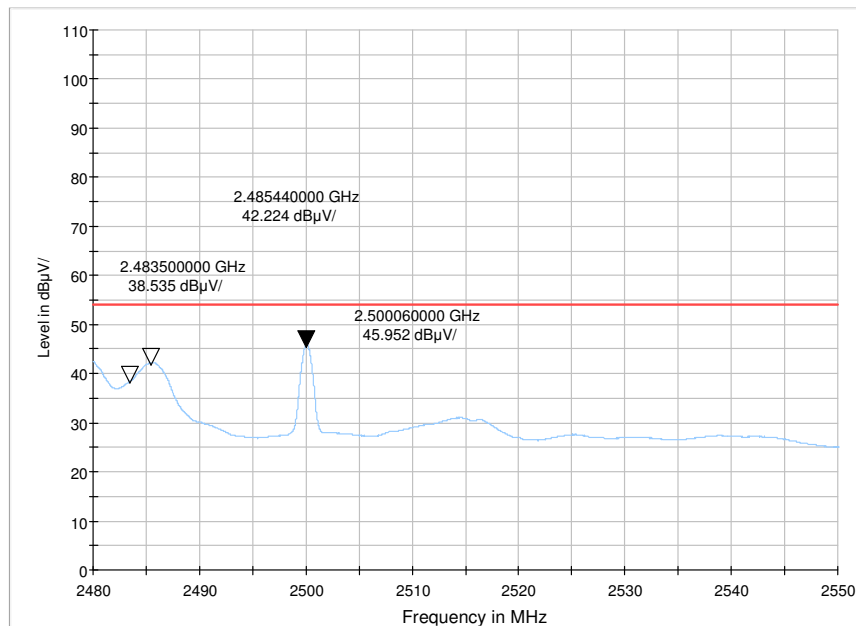
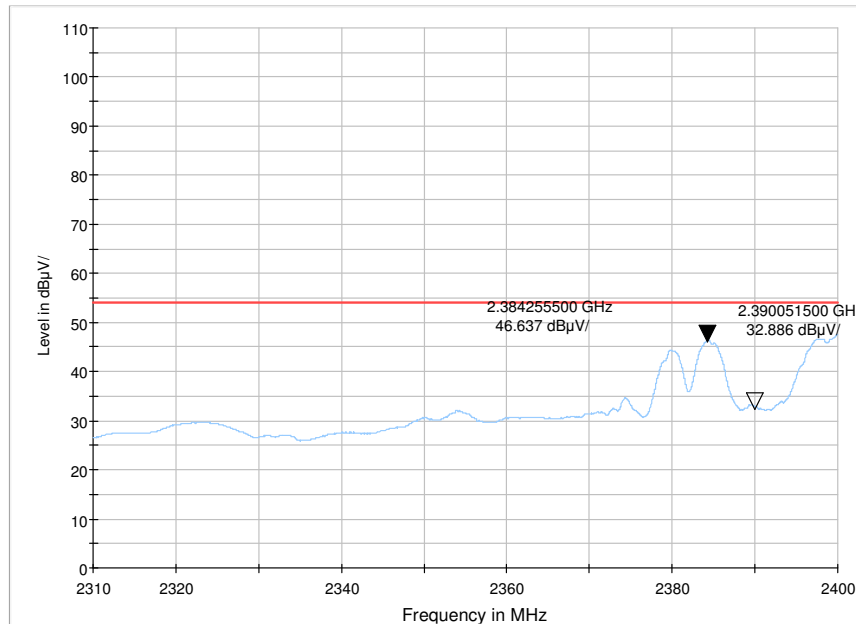
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2387.19	77.79	-12.2	65.59	74.0	-8.41
2500.21	59.15	-10.1	49.05	74.0	-24.95



Vertical, AVG Detector:

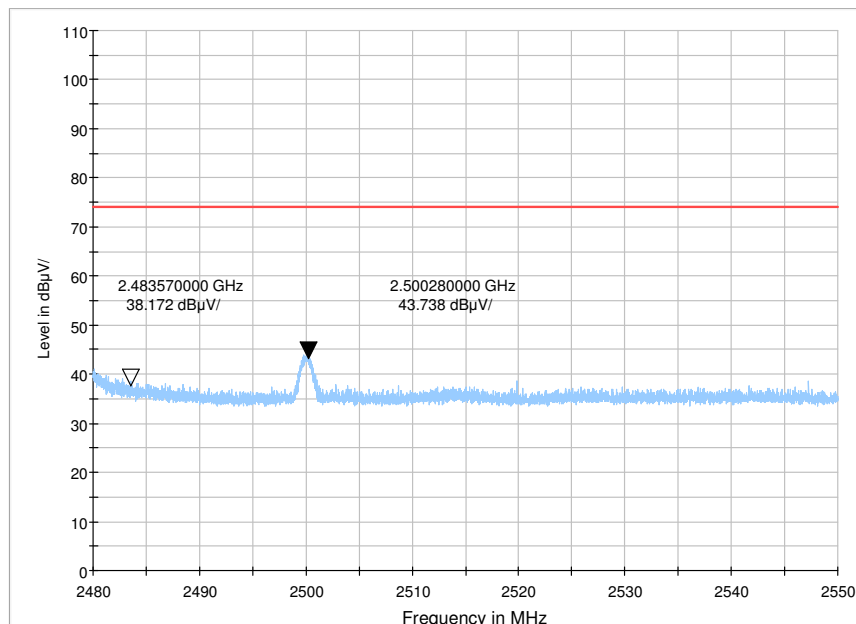
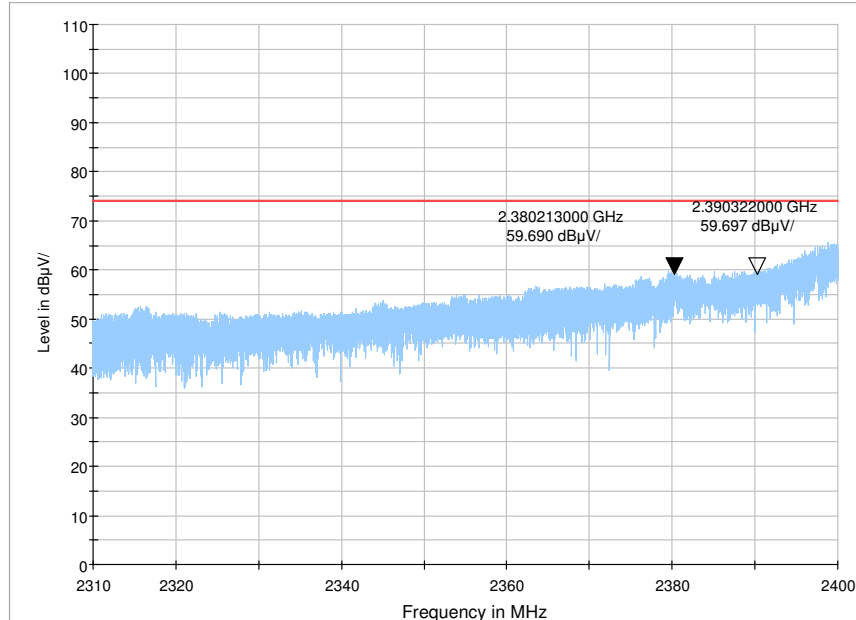


Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2343.26	58.84	-12.2	46.64	54.0	-7.36
2500.06	56.05	-10.1	45.95	54.0	-8.05



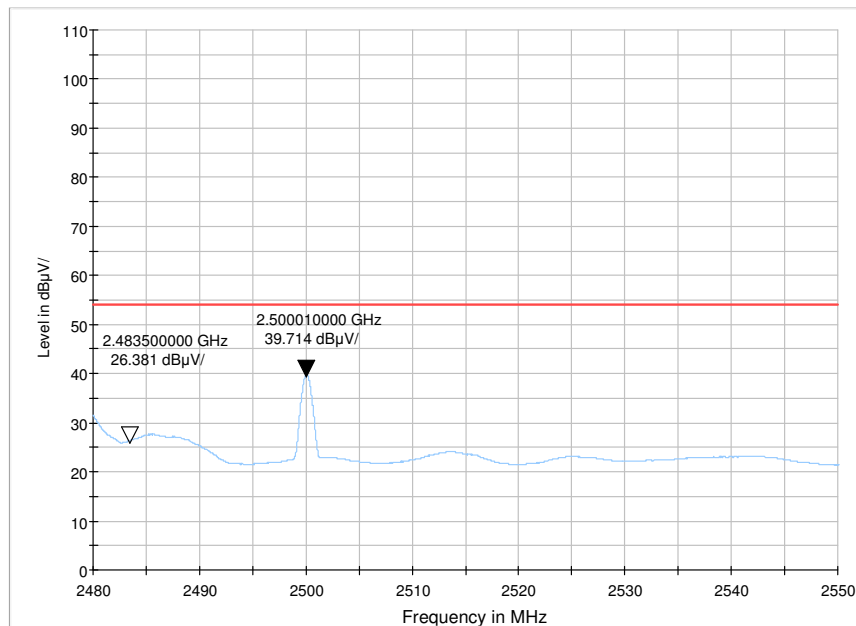
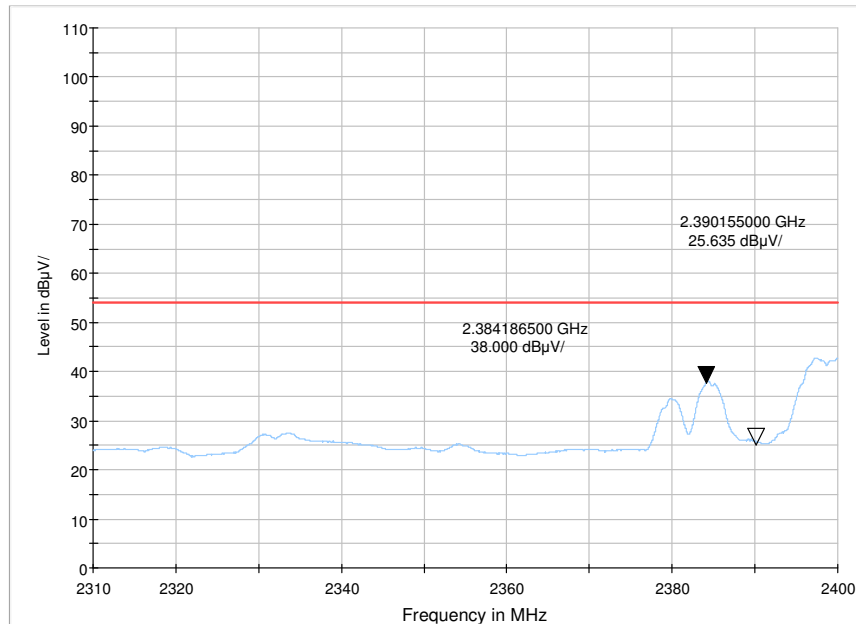
(Chain 001)

Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.32	71.90	-12.2	59.70	74.0	-14.30
2500.28	53.84	-10.1	43.74	74.0	-30.26

Horizontal, AVG Detector:

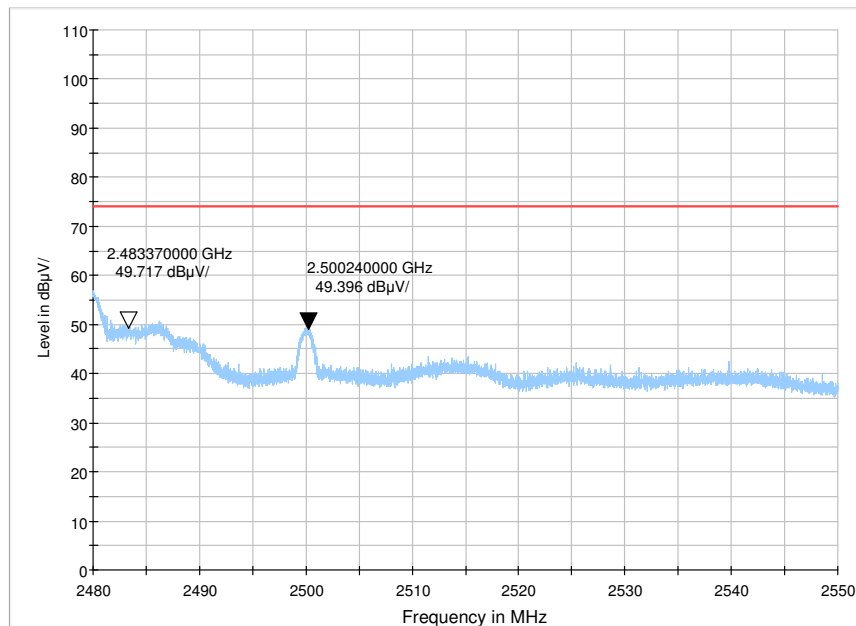
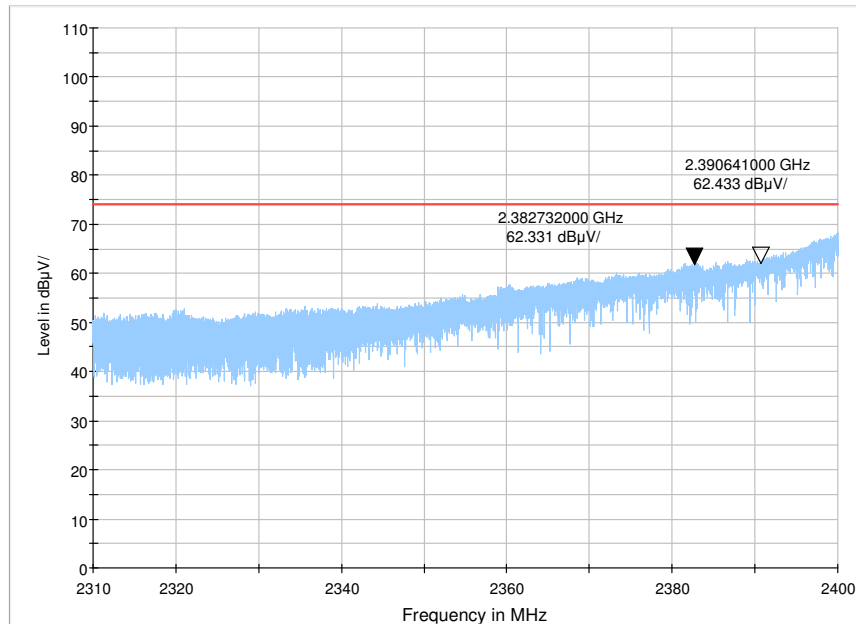


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.19	50.20	-12.2	38.00	54.0	-16.00
2500.01	49.81	-10.1	39.71	54.0	-14.29



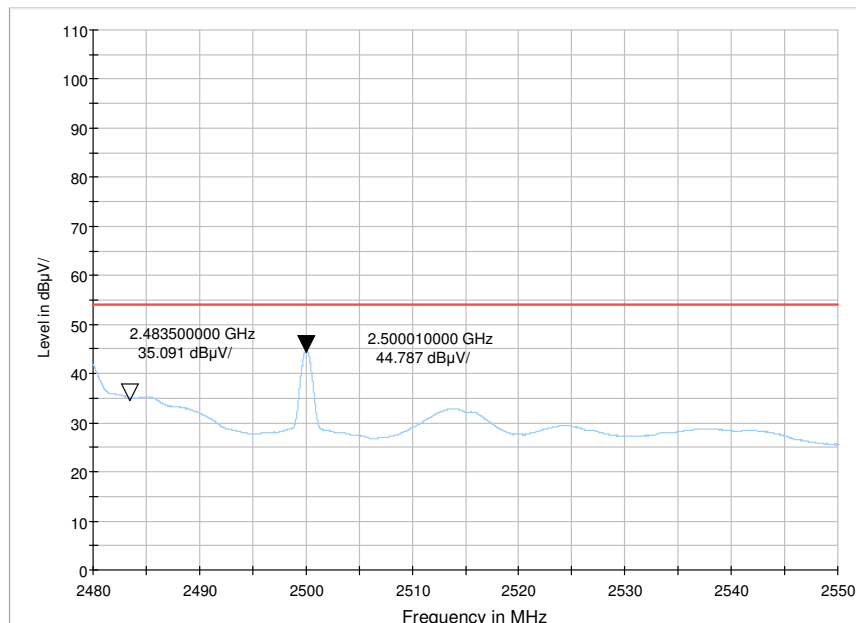
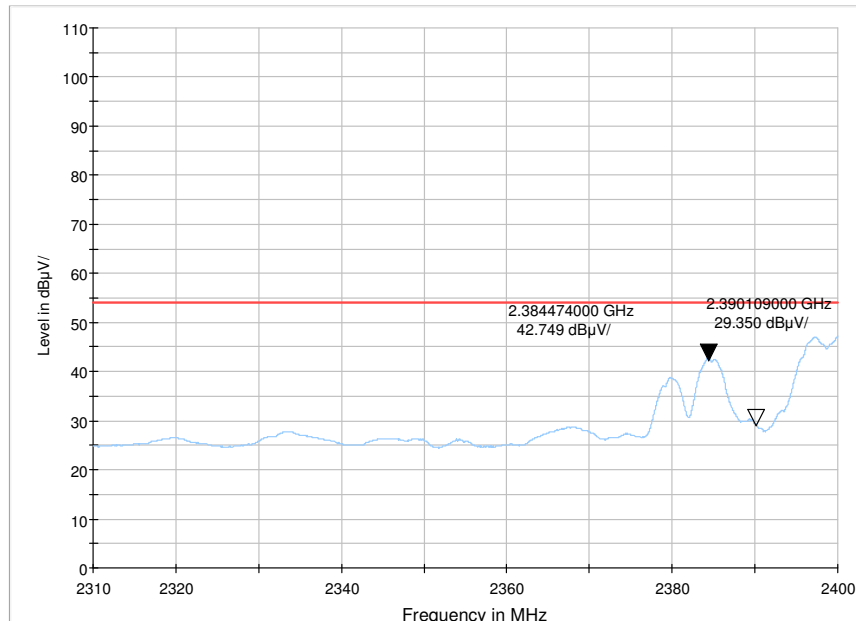
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.64	74.63	-12.2	62.43	74.0	-11.57
2483.37	59.82	-10.1	49.72	74.0	-24.28

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Vertical, AVG Detector:

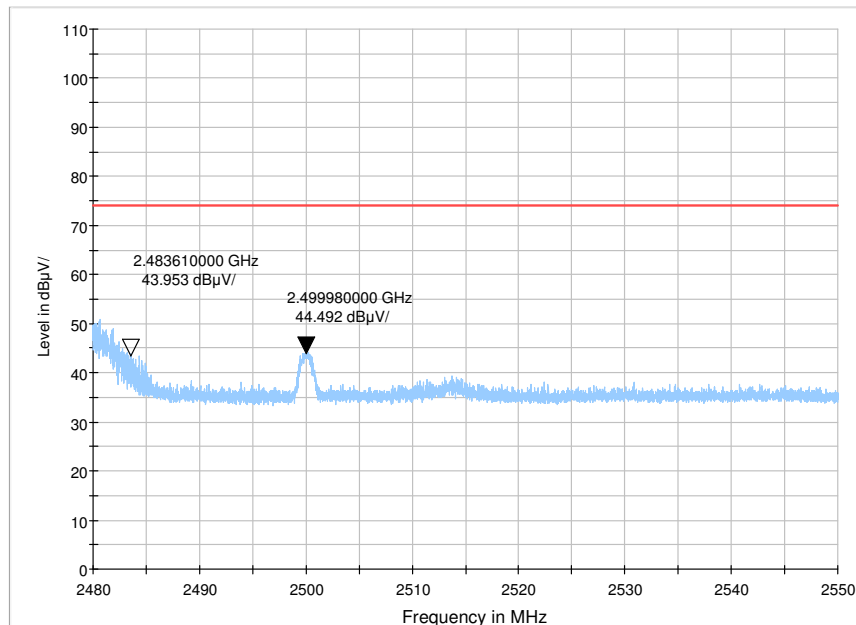
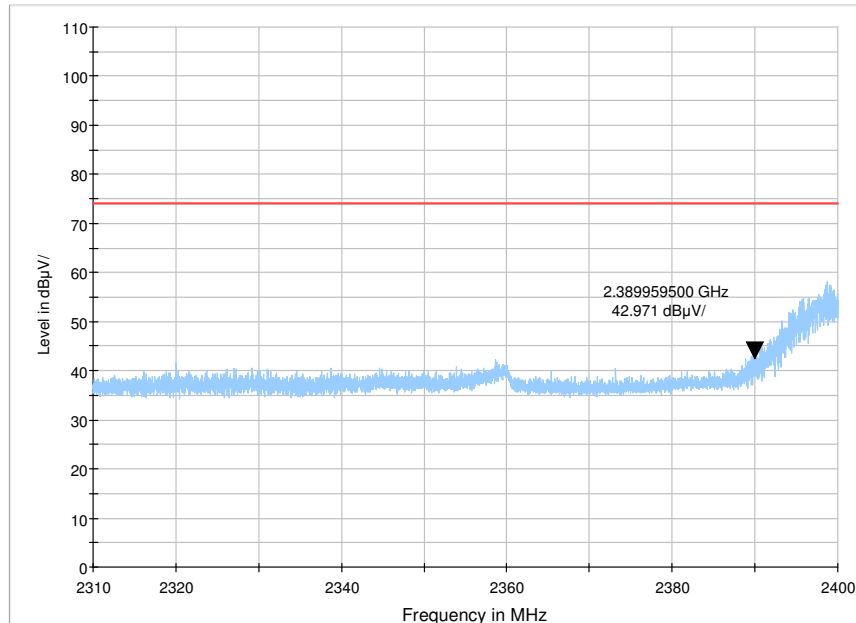


Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.47	54.95	-12.2	42.75	54.0	-11.25
2500.01	54.89	-10.1	44.79	54.0	-9.21



**CH 802.11g Mode 6Mbps
(Chain 100)**

Horizontal, Peak Detector:

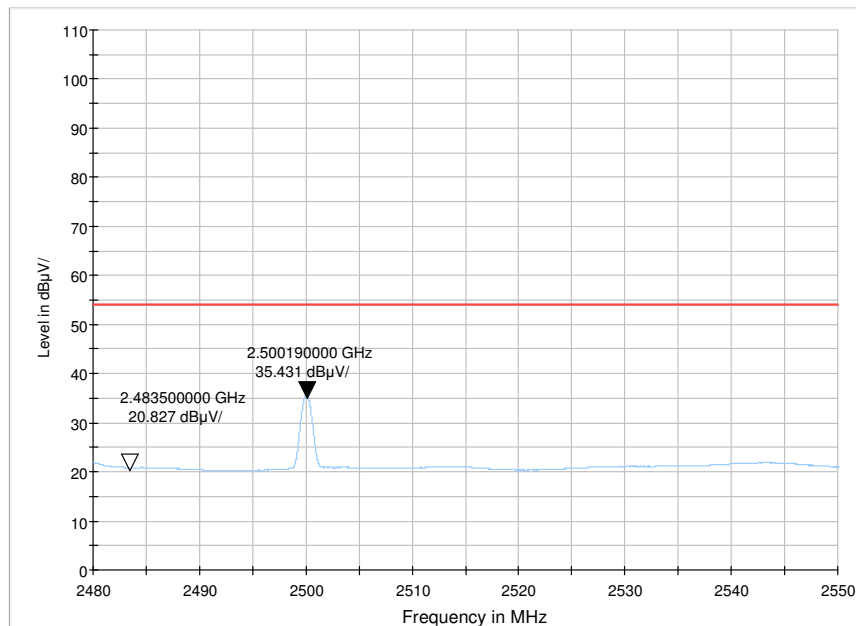
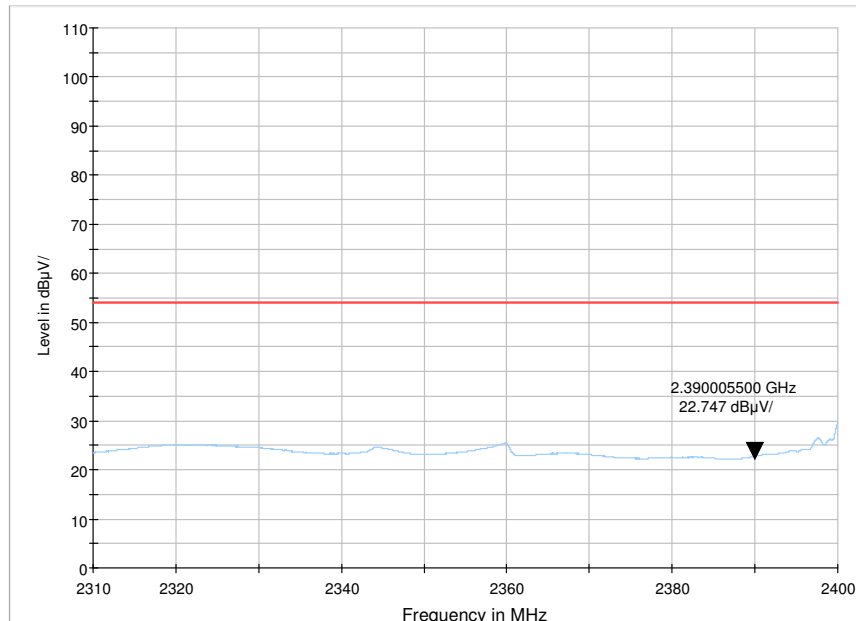


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.96	55.17	-12.2	42.97	74.0	-31.03
2499.98	54.59	-10.1	44.49	74.0	-29.51

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Horizontal, AVG Detector:

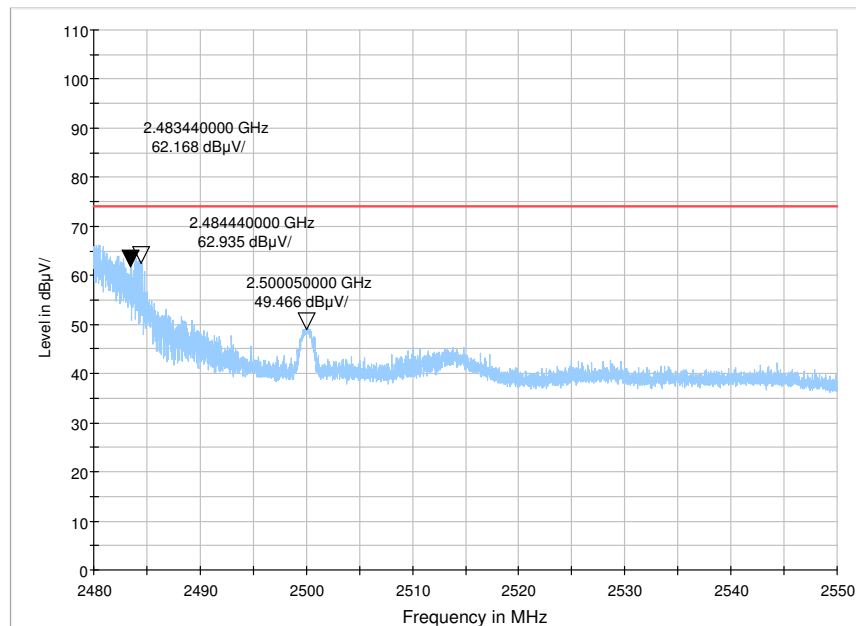
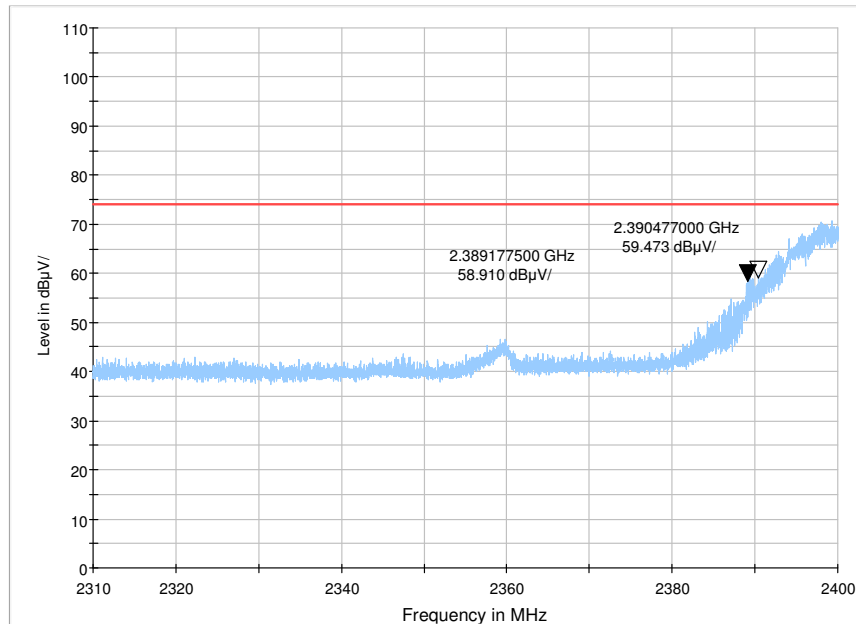


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	34.95	-12.2	22.75	54.0	-31.25
2500.19	45.53	-10.1	35.43	54.0	-18.57



Vertical, Peak Detector:

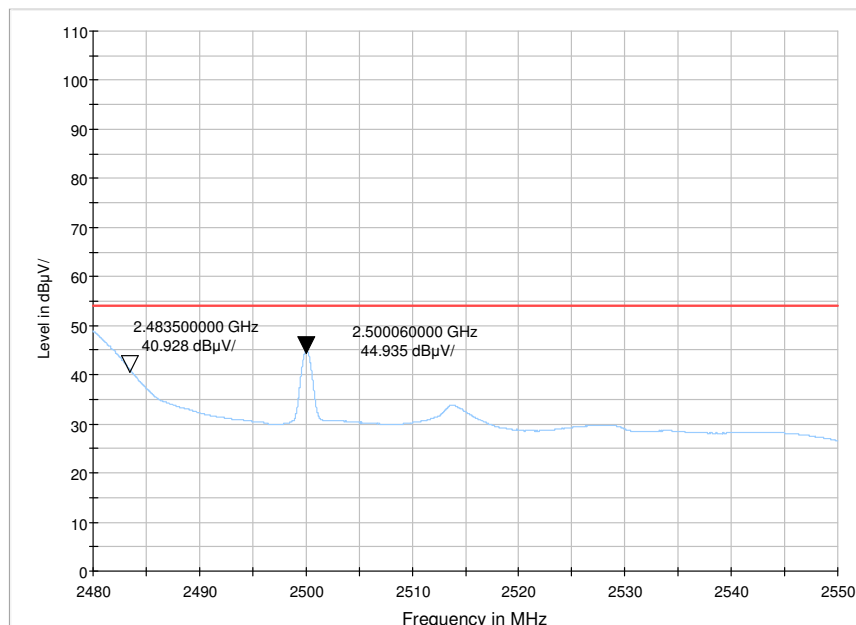
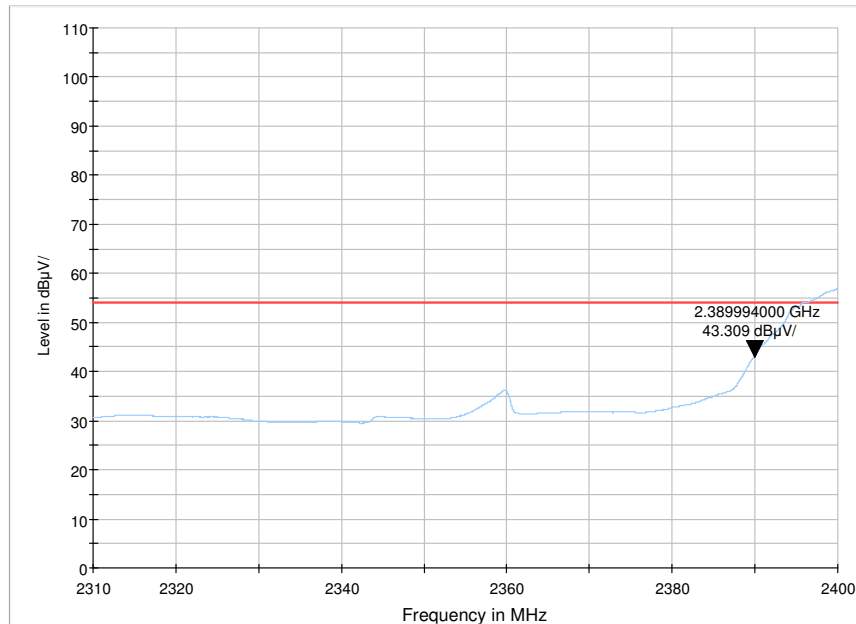


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.48	71.67	-12.2	59.47	74.0	-14.53
2484.44	73.04	-10.1	62.94	74.0	-11.06

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Vertical, AVG Detector:

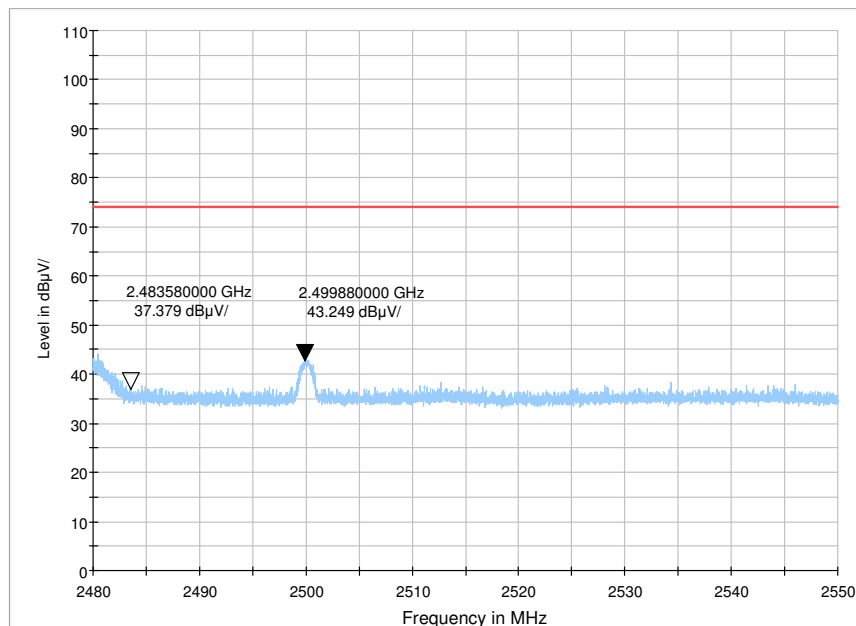
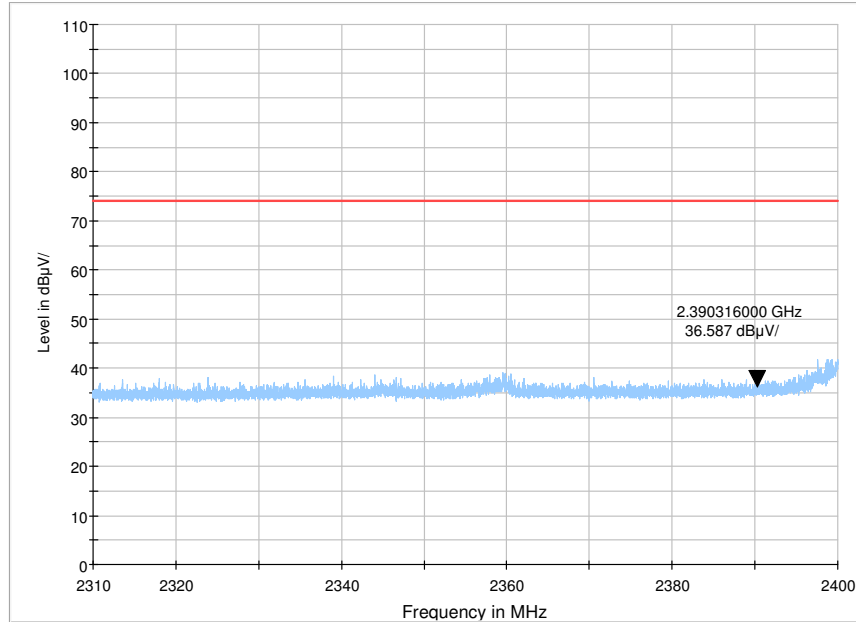


Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2389.99	55.51	-12.2	43.31	54.0	-10.69
2500.06	55.04	-10.1	44.94	54.0	-9.06



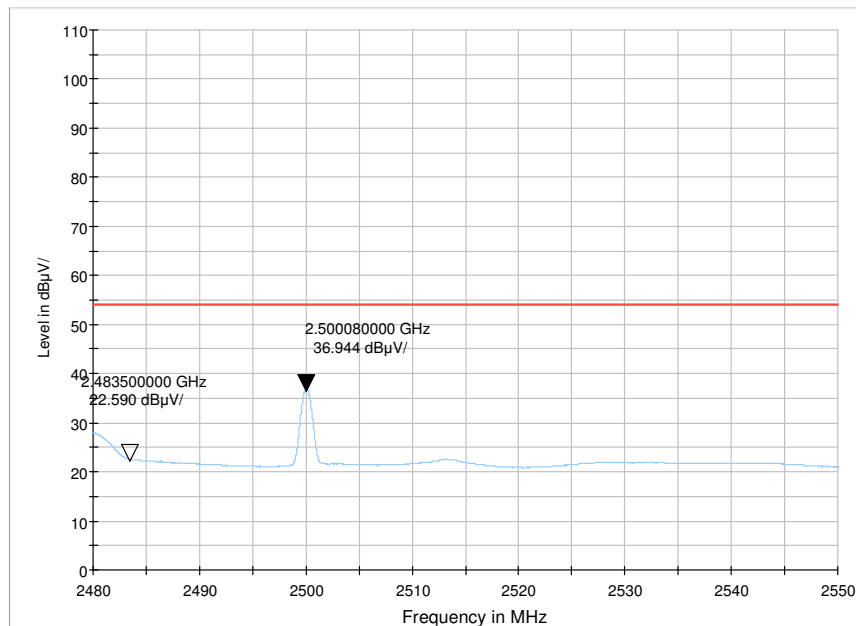
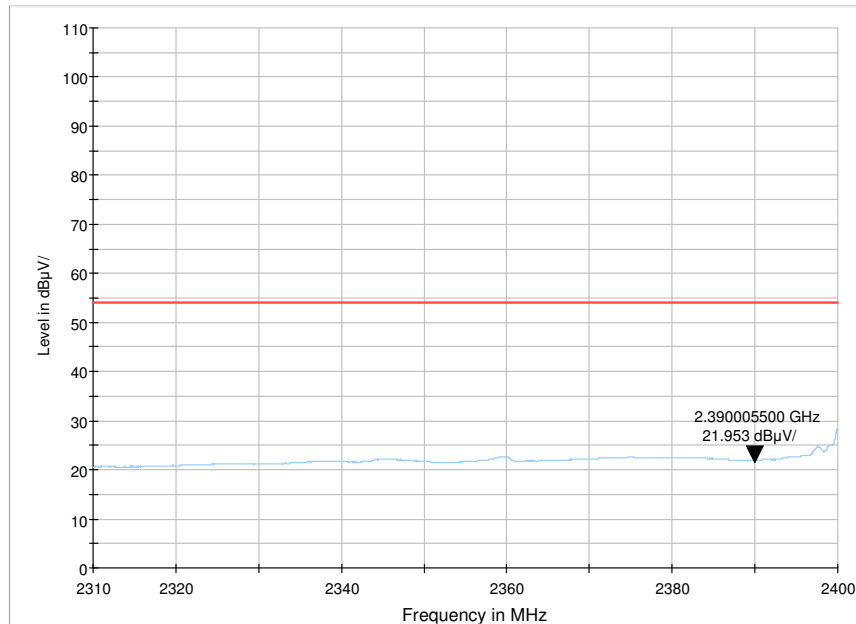
(Chain 010)

Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.32	48.79	-12.2	36.59	74.0	-37.41
2499.88	53.35	-10.1	43.25	74.0	-30.75

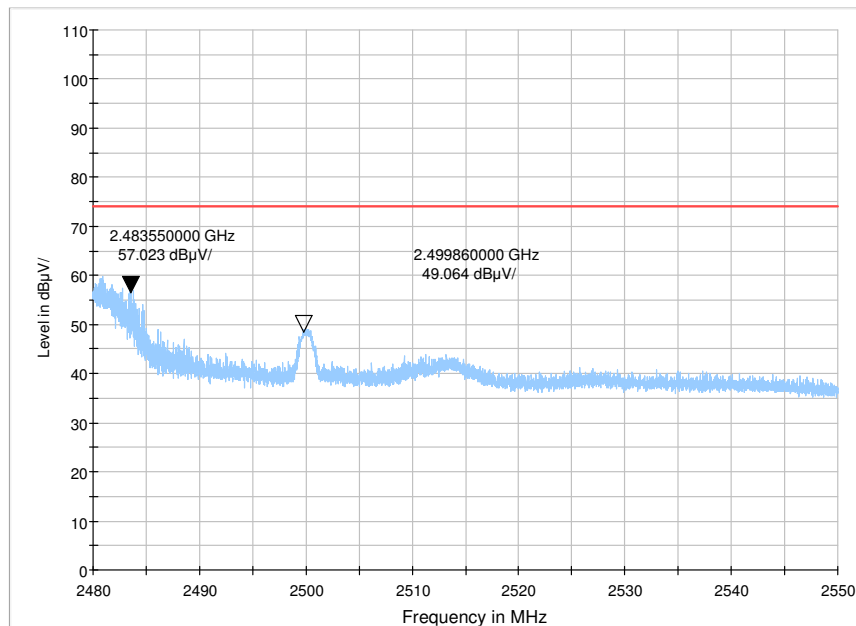
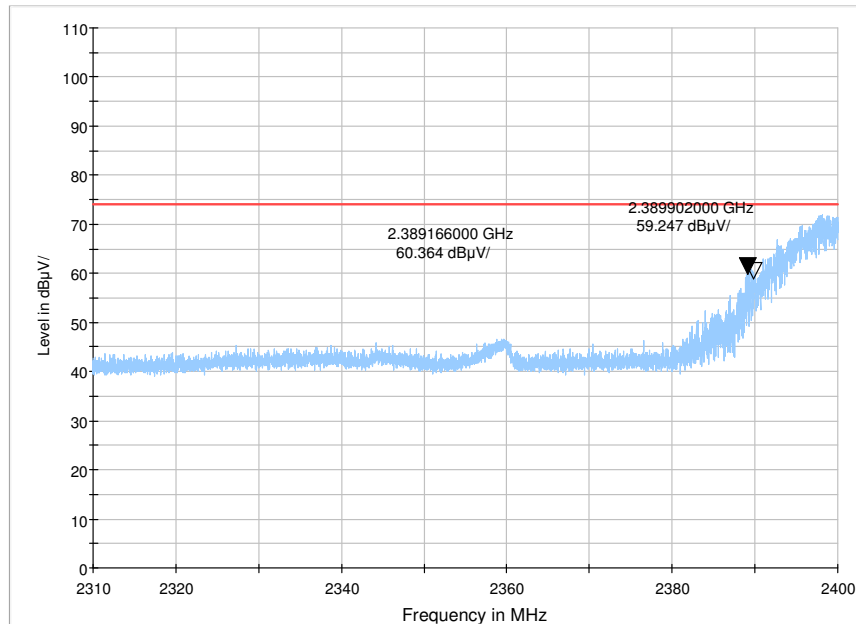
Horizontal, AVG Detector:



Horizontal, AV Detector:

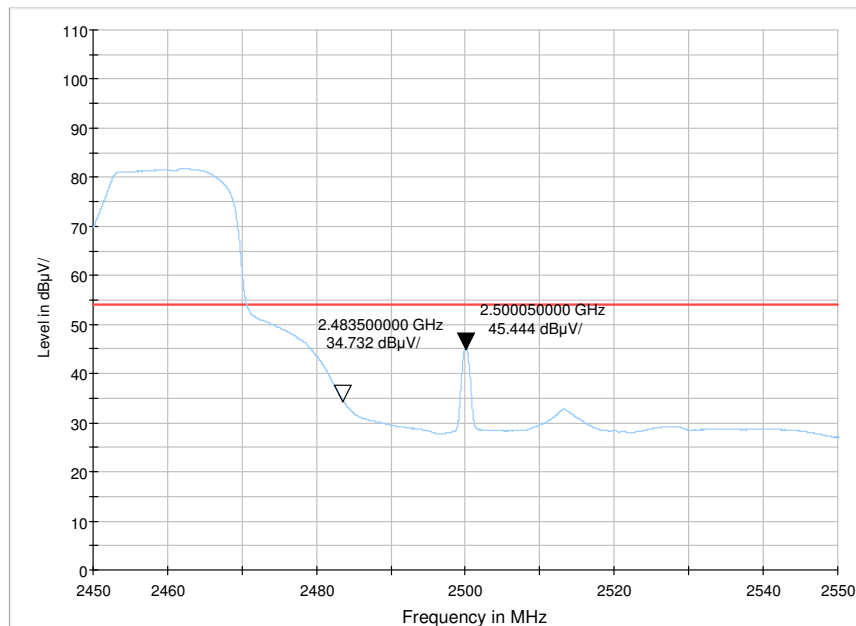
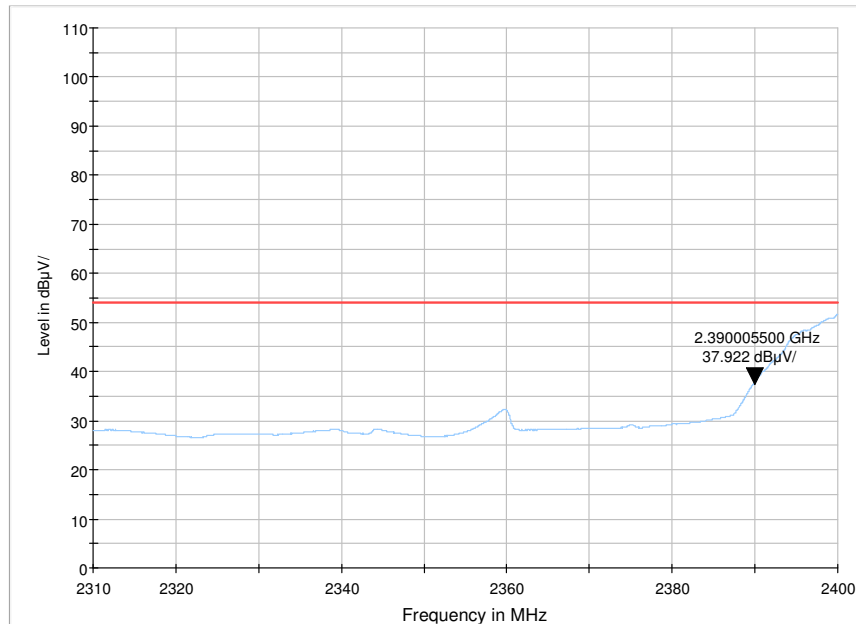
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	34.15	-12.2	21.95	54.0	-32.05
2500.08	47.04	-10.1	36.94	54.0	-17.06

Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.17	72.56	-12.2	60.36	74.0	-13.64
2483.55	67.12	-10.1	57.02	74.0	-16.98

Vertical, AVG Detector:

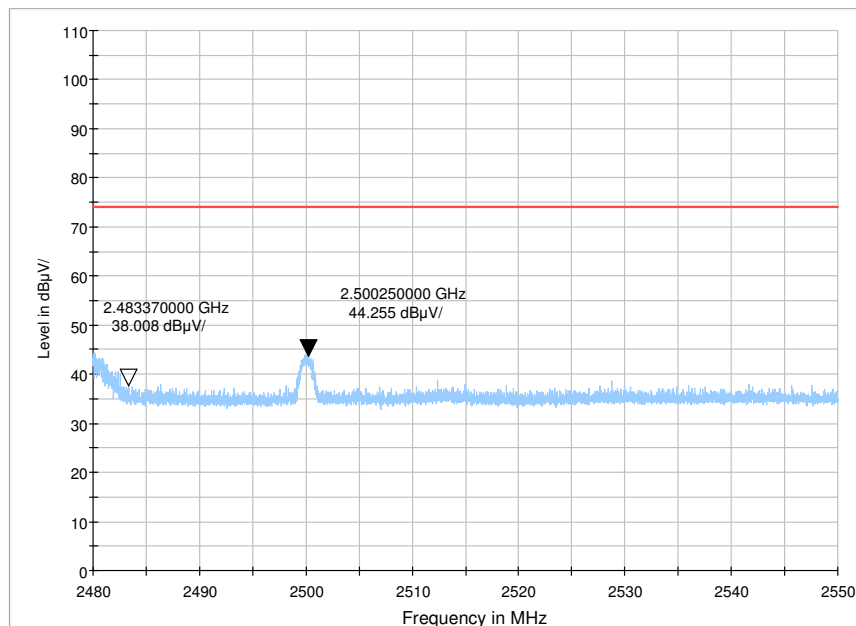
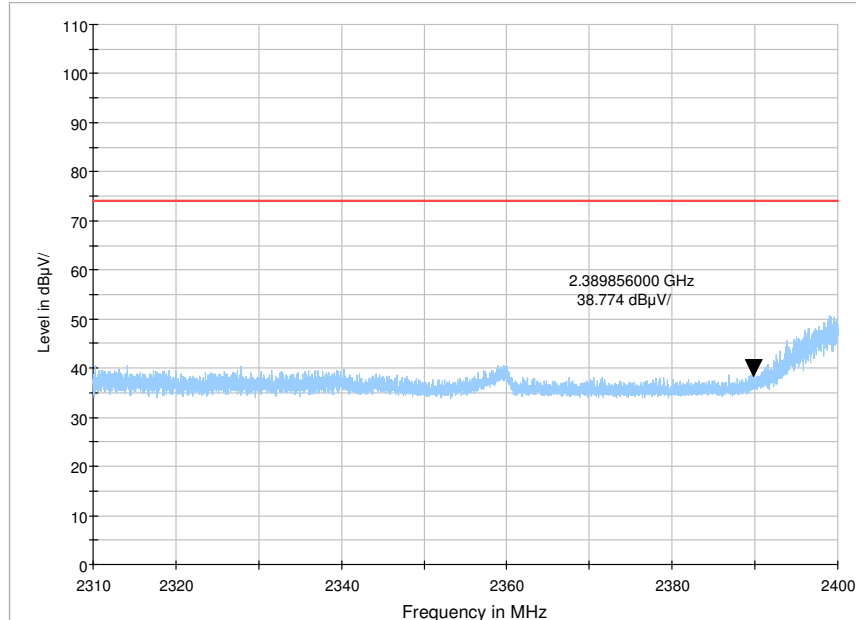


Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2343.26	50.12	-12.2	37.92	54.0	-16.08
2500.05	55.54	-10.1	45.44	54.0	-8.56



(Chain 001)

Horizontal, Peak Detector:

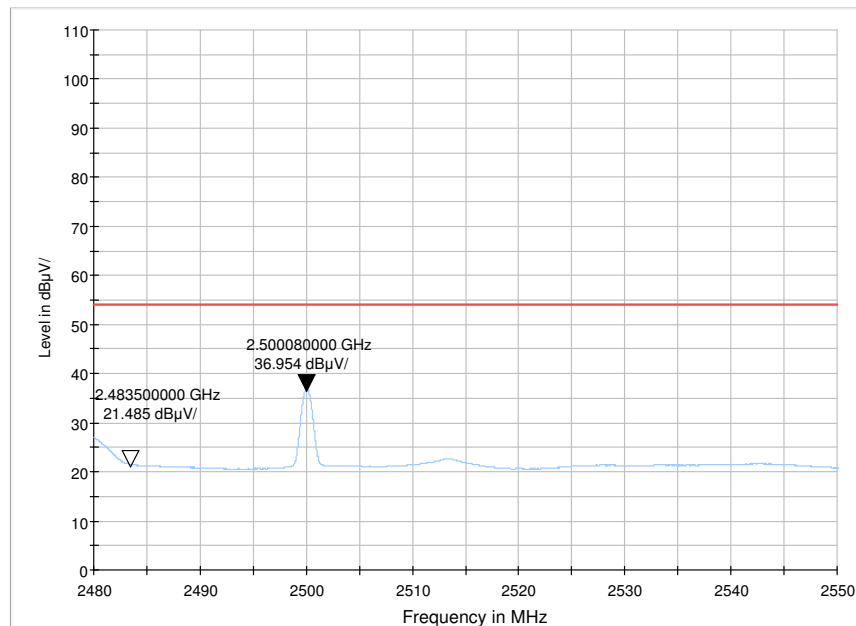
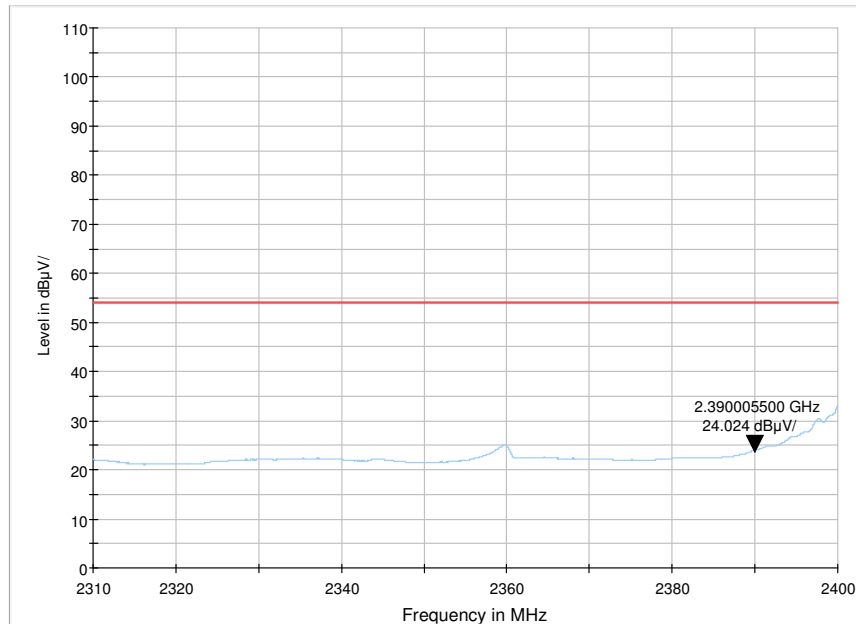


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2389.86	50.97	-12.2	38.77	74.0	-35.23
2500.25	54.36	-10.1	44.26	74.0	-29.74

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Horizontal, AVG Detector:

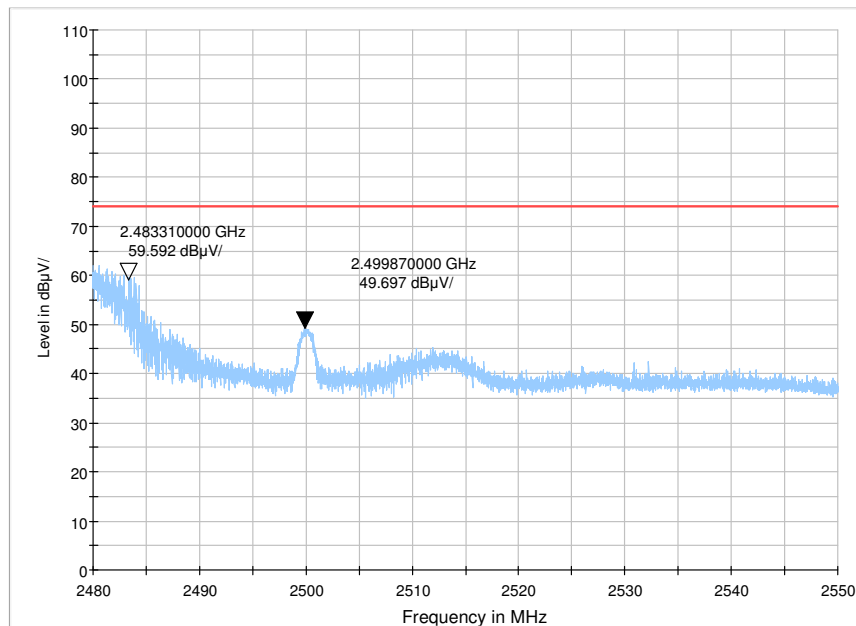
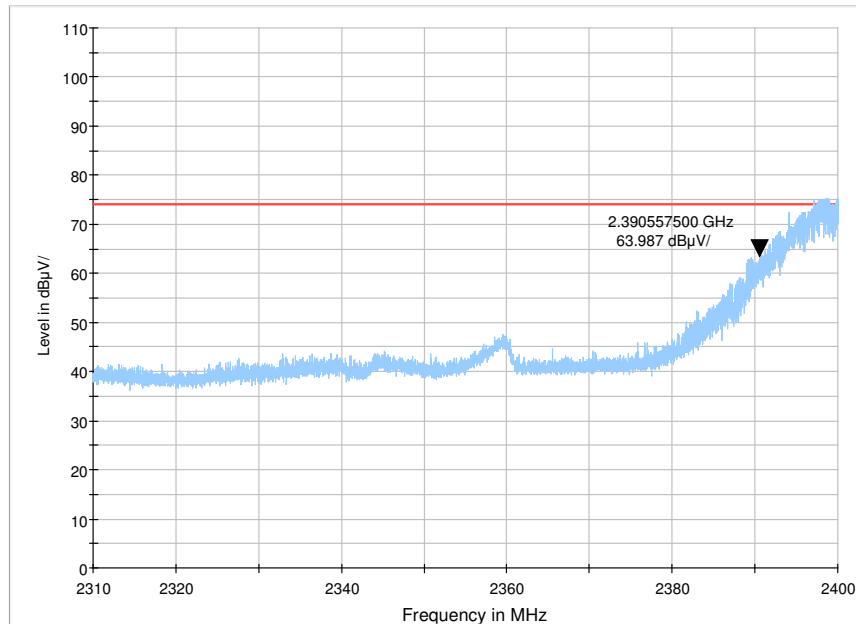


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	36.22	-12.2	24.02	54.0	-29.98
2500.08	47.05	-10.1	36.95	54.0	-17.05

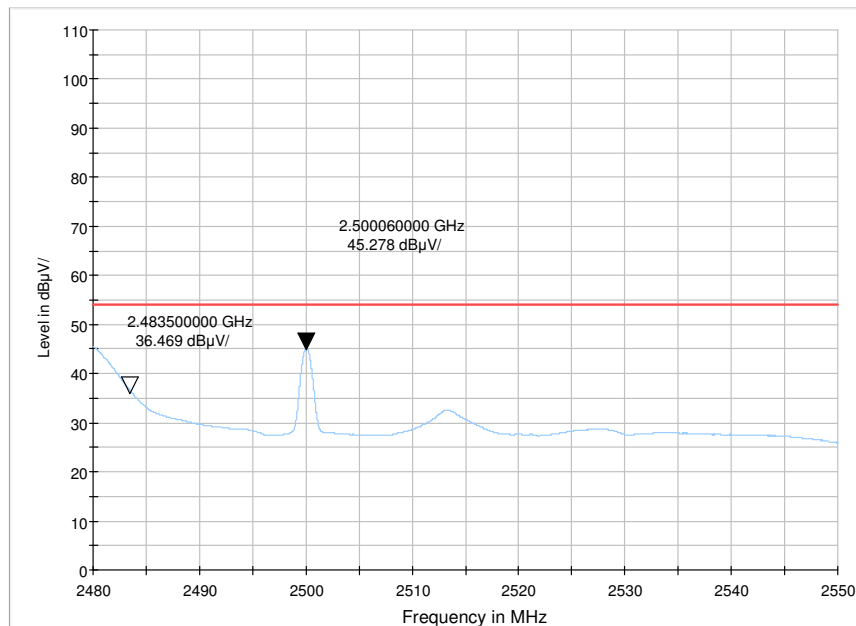
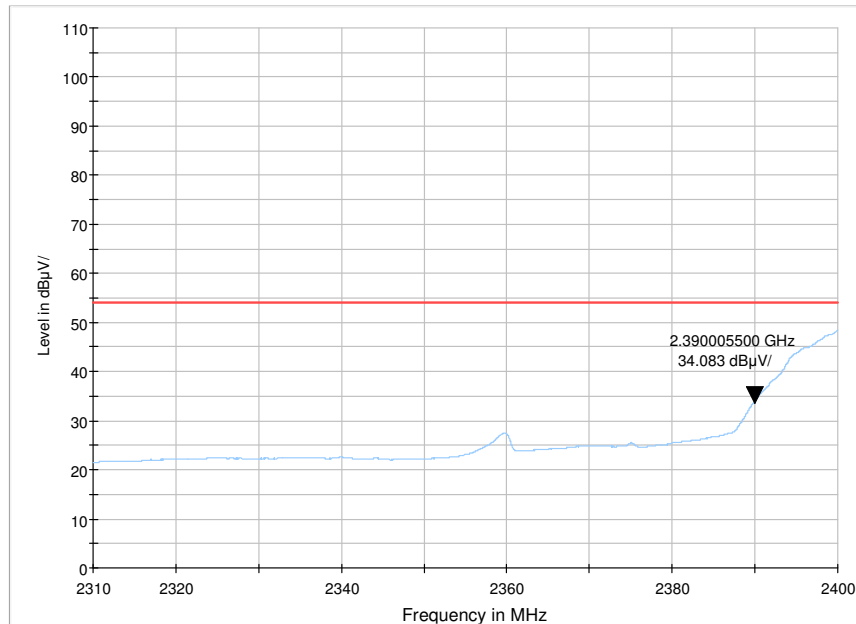


Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.58	76.19	-12.2	63.99	74.0	-10.01
2483.31	69.69	-10.1	59.59	74.0	-14.41

Vertical, AVG Detector:



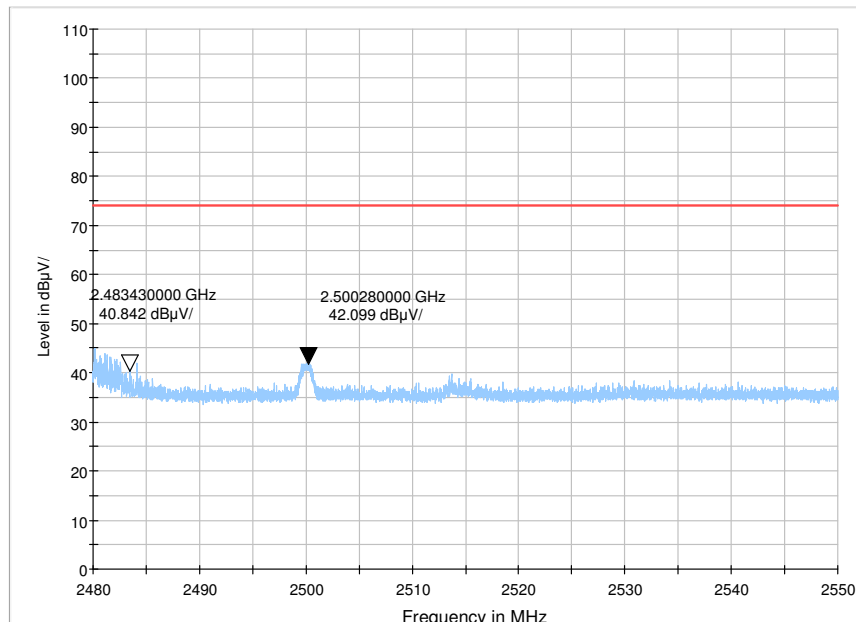
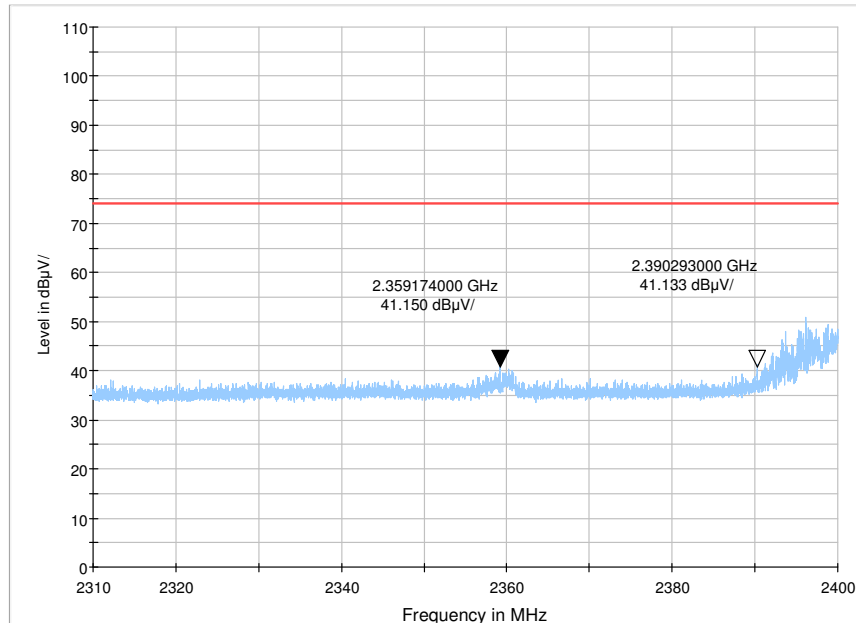
Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2390.01	46.28	-12.2	34.08	54.0	-19.92
2500.01	55.38	-10.1	45.28	54.0	-8.72



802.11n 2.4G(20MHz BW) Mode 6.5 Mbps

(Chain 111)

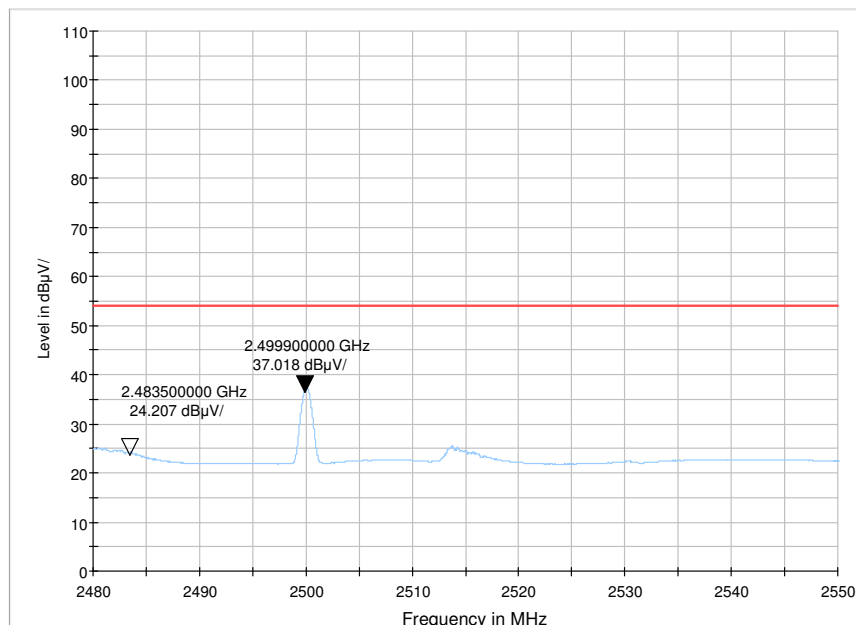
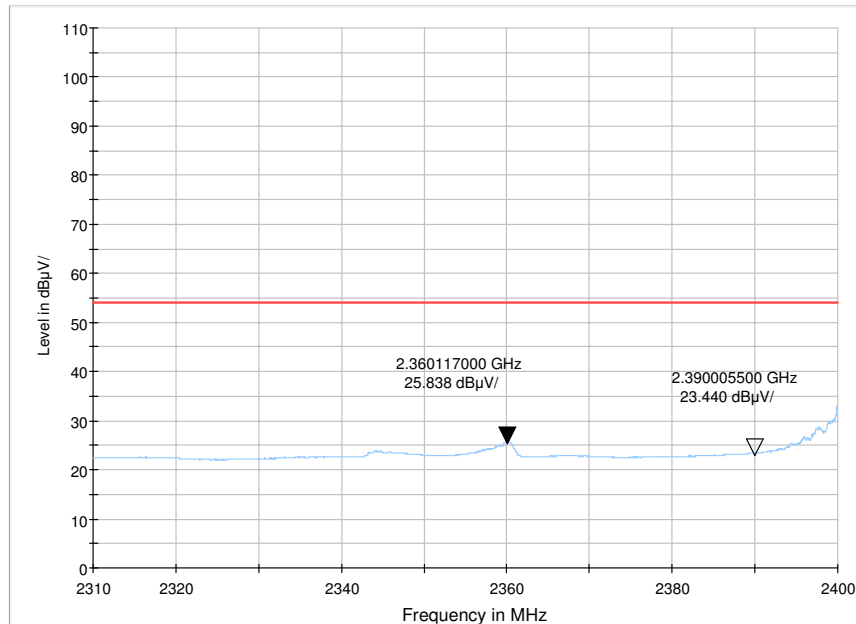
Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2359.17	53.35	-12.2	41.15	74.0	-32.85
2500.28	52.20	-10.1	42.10	74.0	-31.90

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Horizontal, AVG Detector:

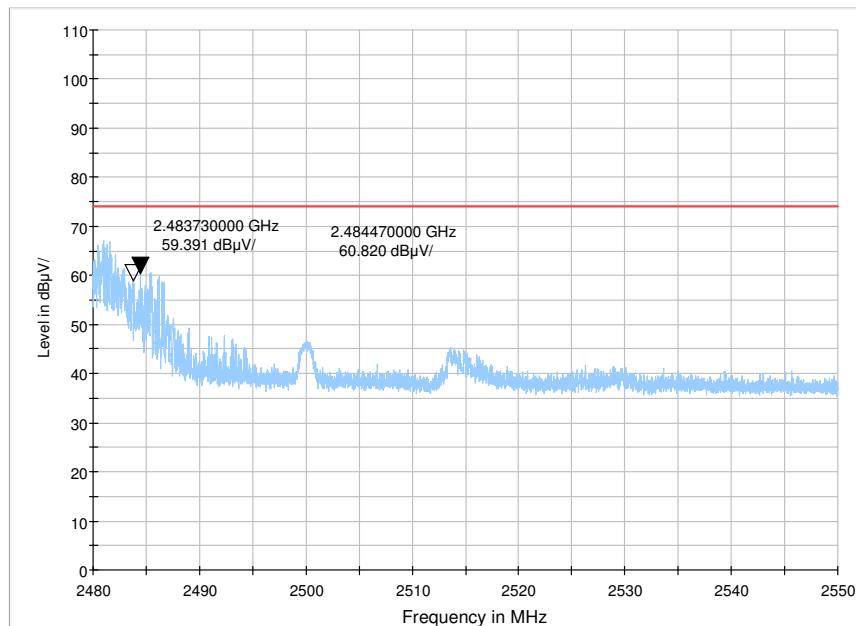
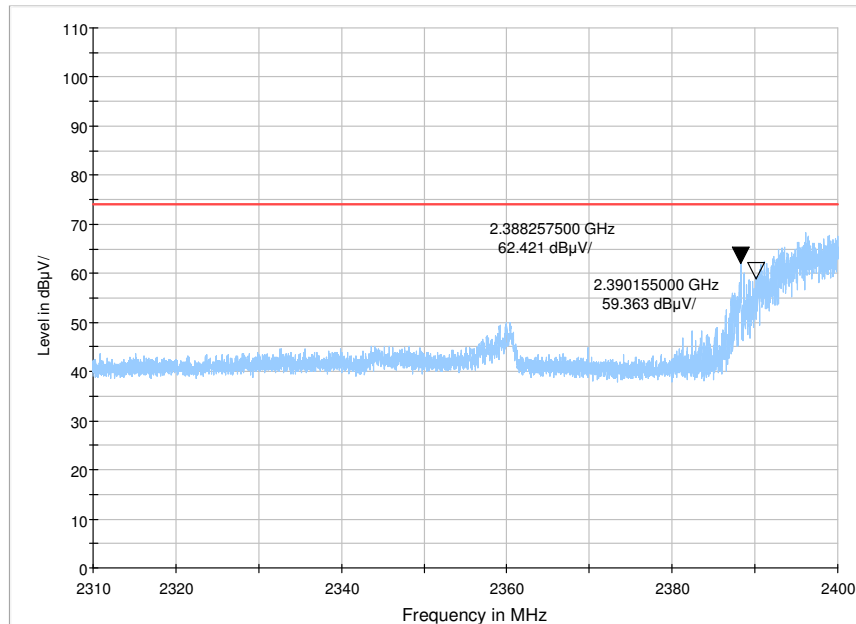


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2360.12	38.04	-12.2	25.84	54.0	-28.16
2499.90	47.12	-10.1	37.02	54.0	-16.98



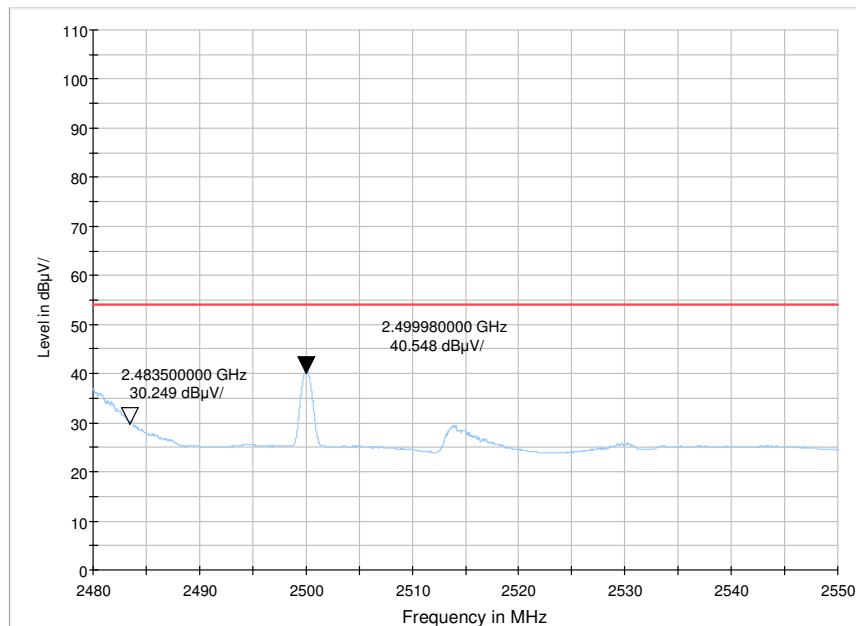
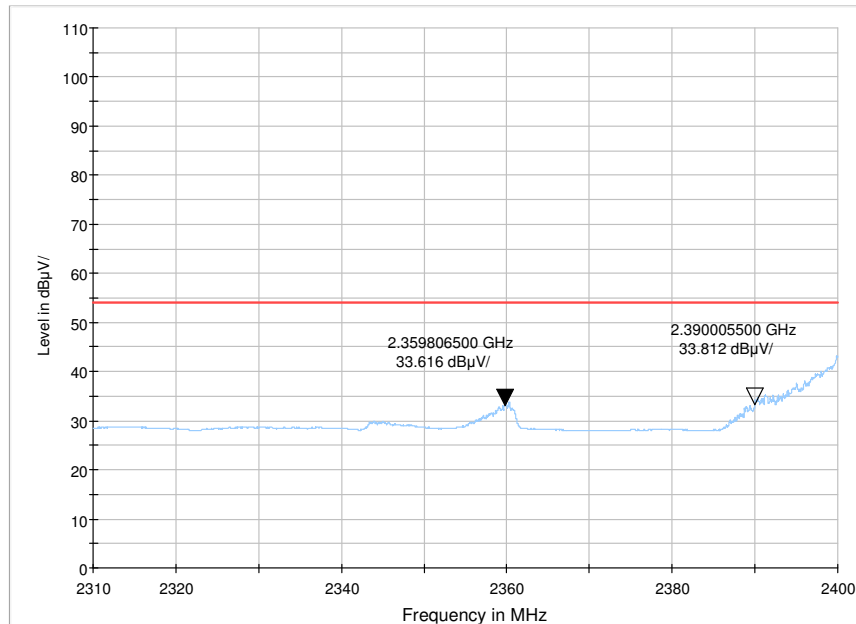
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2388.26	74.62	-12.2	62.42	74.0	-11.58
2484.47	70.92	-10.1	60.82	74.0	-13.18

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Vertical, AVG Detector:

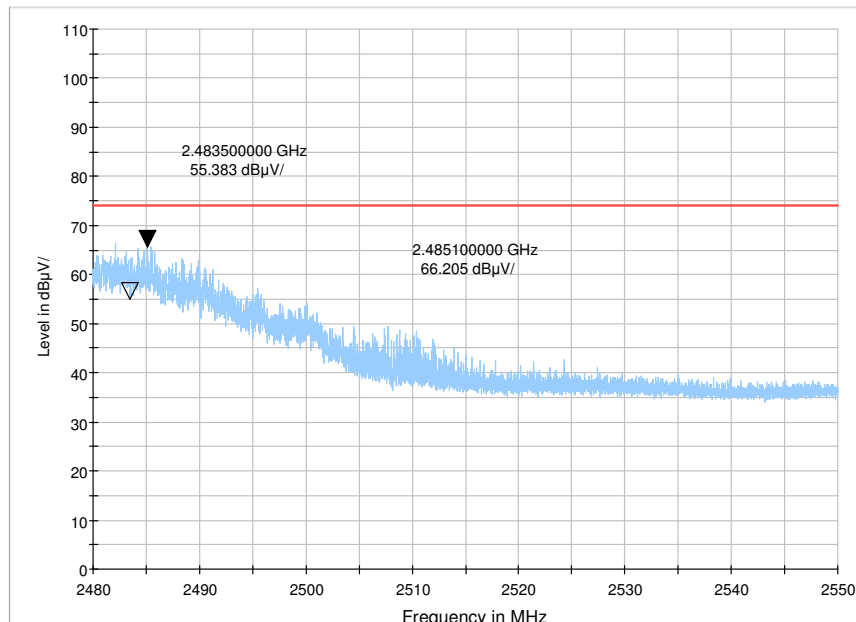
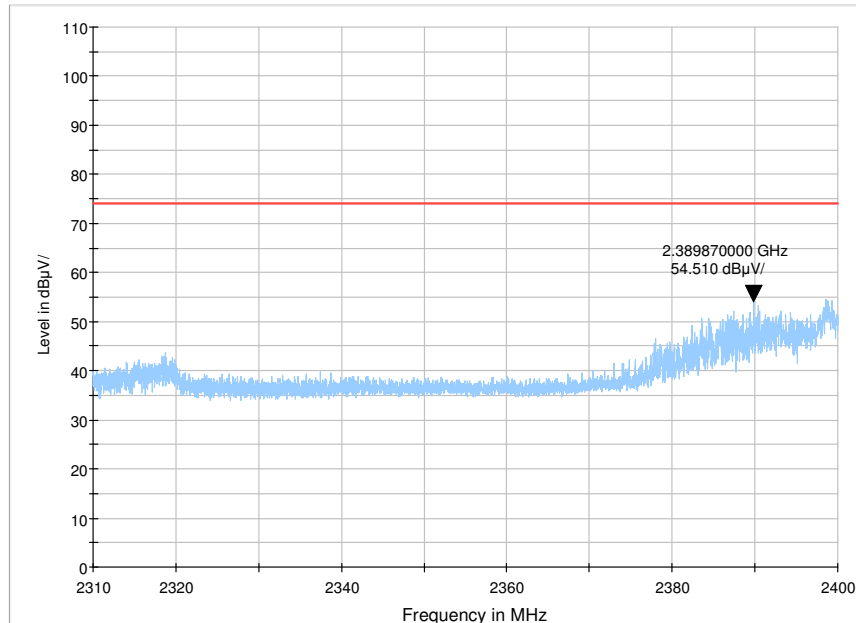


Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390	46.01	-12.2	33.81	54.0	-20.19
2499.98	50.65	-10.1	40.55	54.0	-13.45



**802.11n 2.4G Band (40MHz BW) Mode 6.5Mbps
(Chain 111)**

Horizontal, Peak Detector:

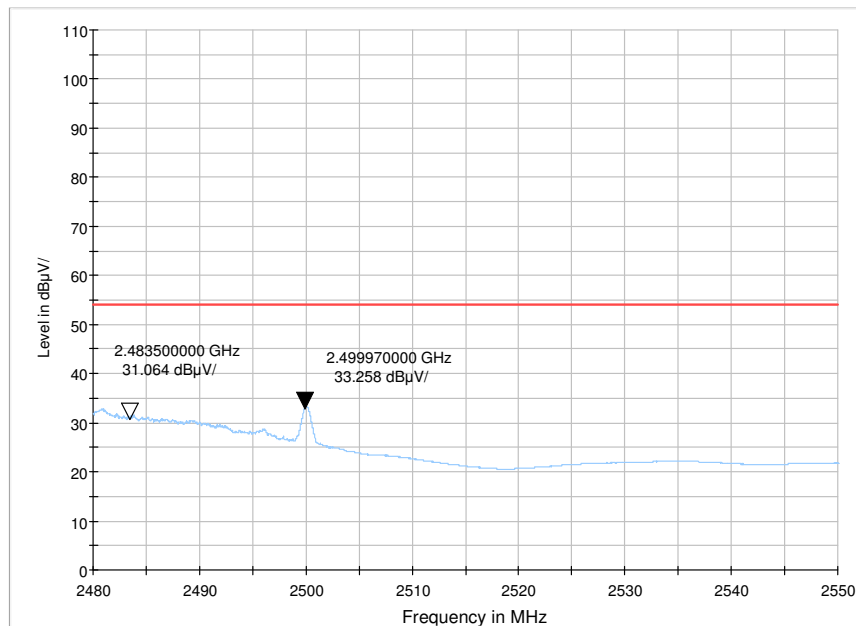
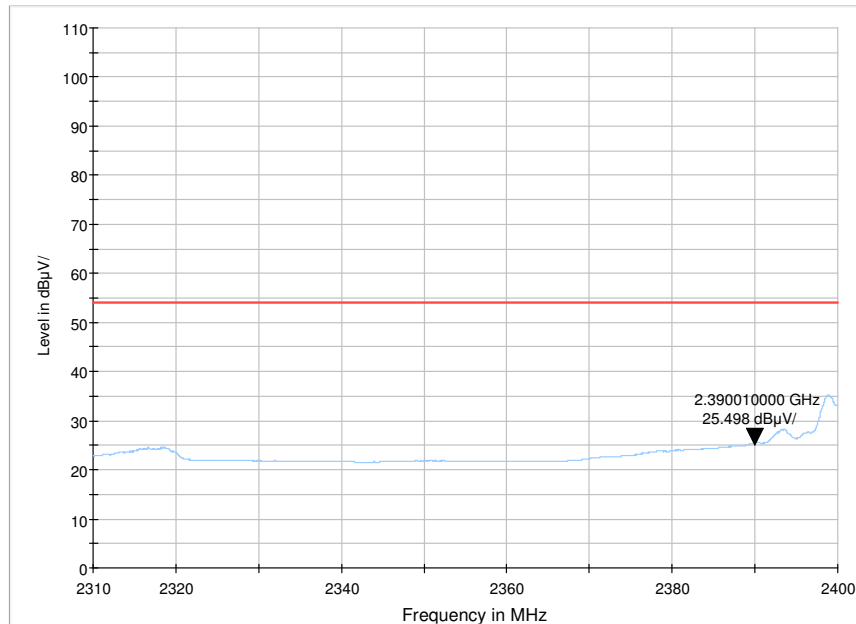


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.87	66.71	-12.2	54.51	74.0	-19.49
2485.10	76.31	-10.1	66.21	74.0	-7.79

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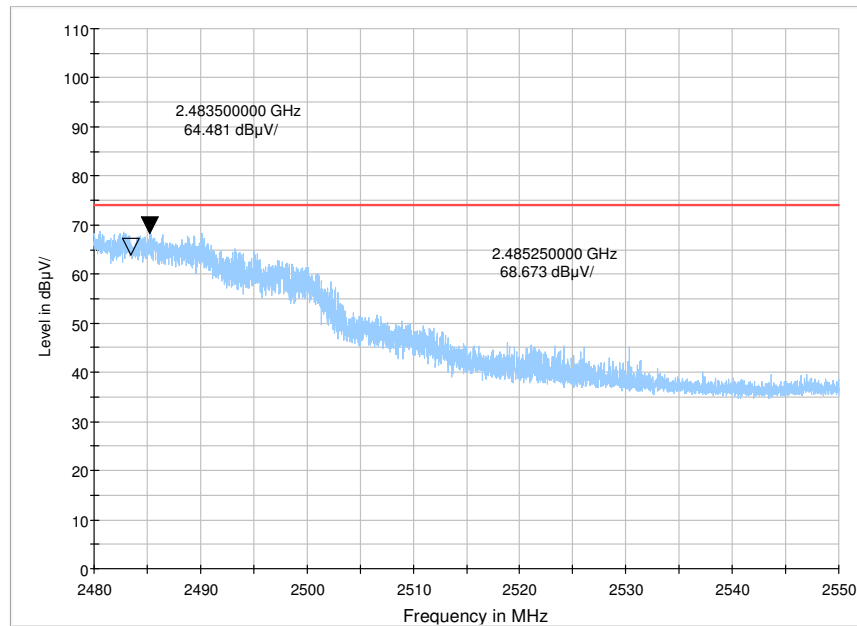
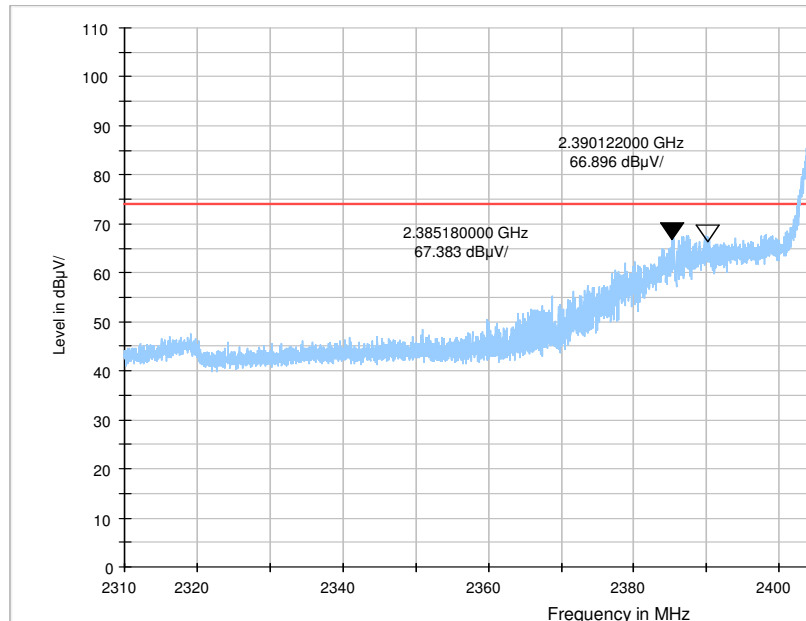
Horizontal, AVG Detector:



Horizontal, AV Detector:

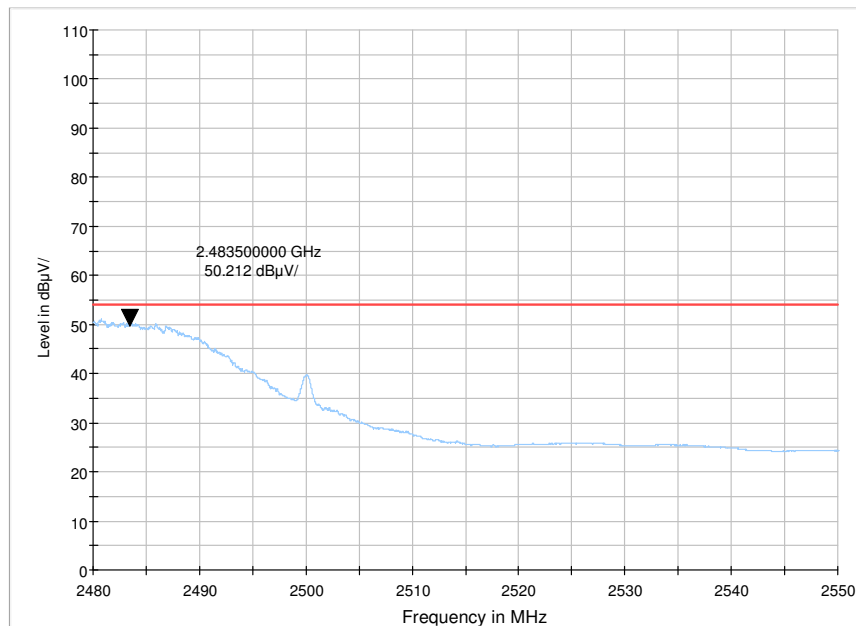
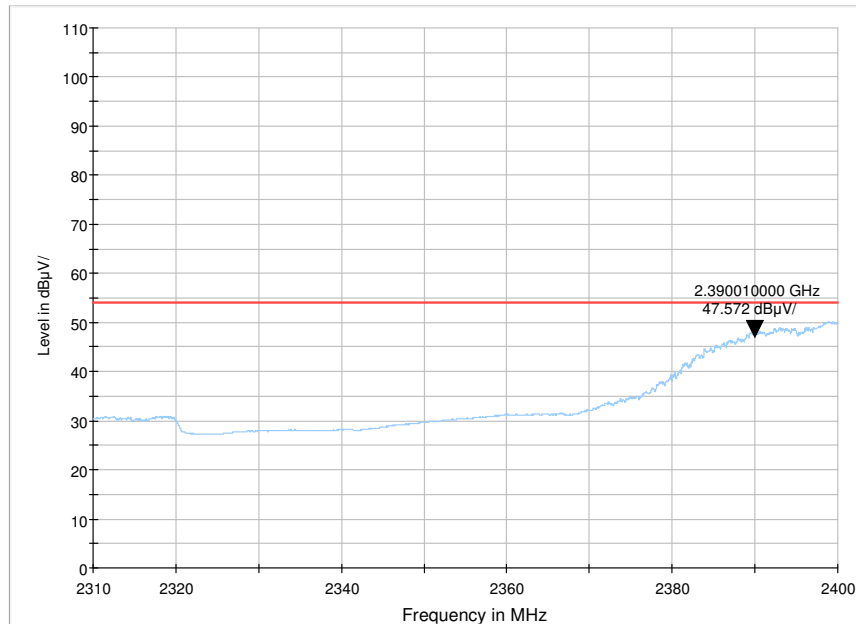
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	37.70	-12.2	25.50	54.0	-28.50
2499.97	43.36	-10.1	33.26	54.0	-20.74

Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2385.18	79.58	-12.2	67.38	74.0	-6.62
2485.25	78.77	-10.1	68.67	74.0	-5.33

Vertical, AVG Detector:



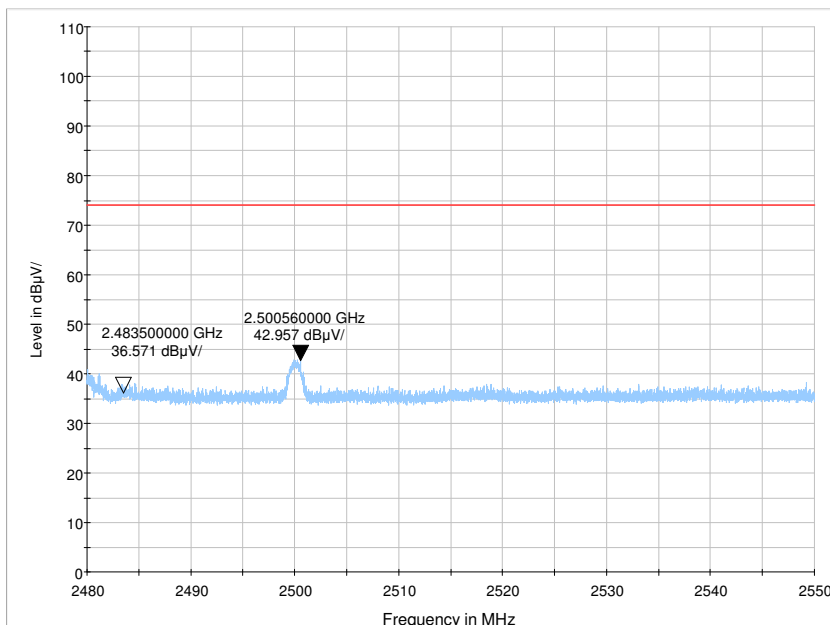
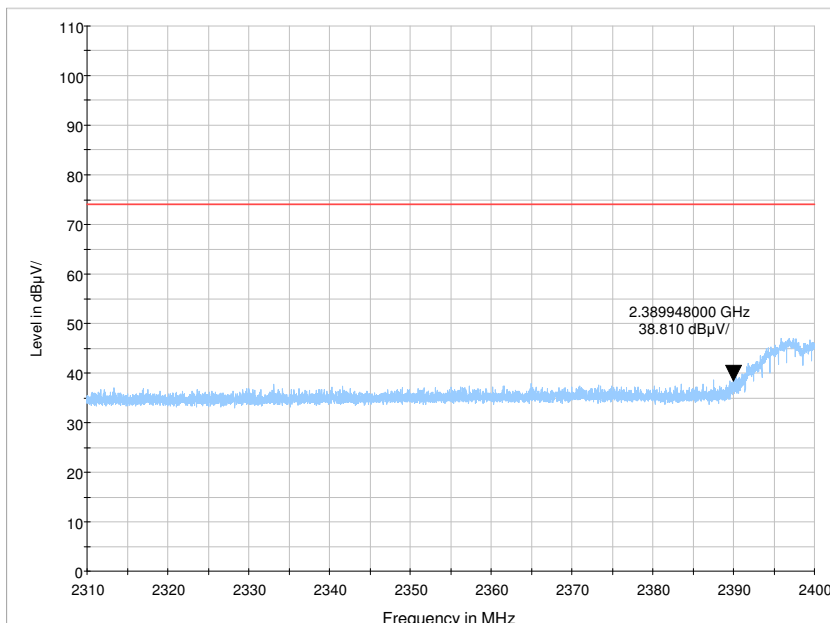
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	59.77	-12.2	47.57	54.00	-6.43
2483.50	60.31	-10.1	50.21	54.00	-3.79



4.3.4.2 Measurement Result (With PCB Antenna):

CH 802.11b Mode 1Mbps

(Chain 100) Horizontal, Peak Detector:

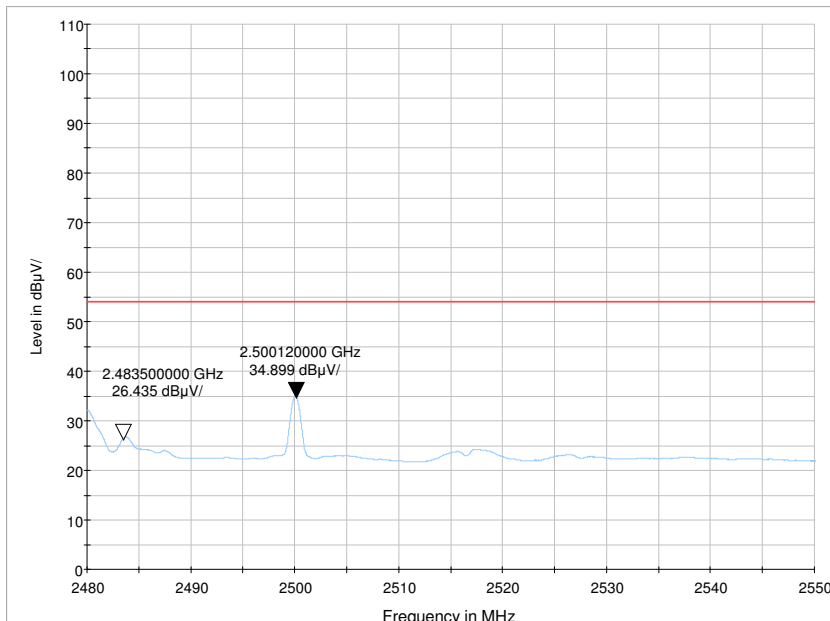
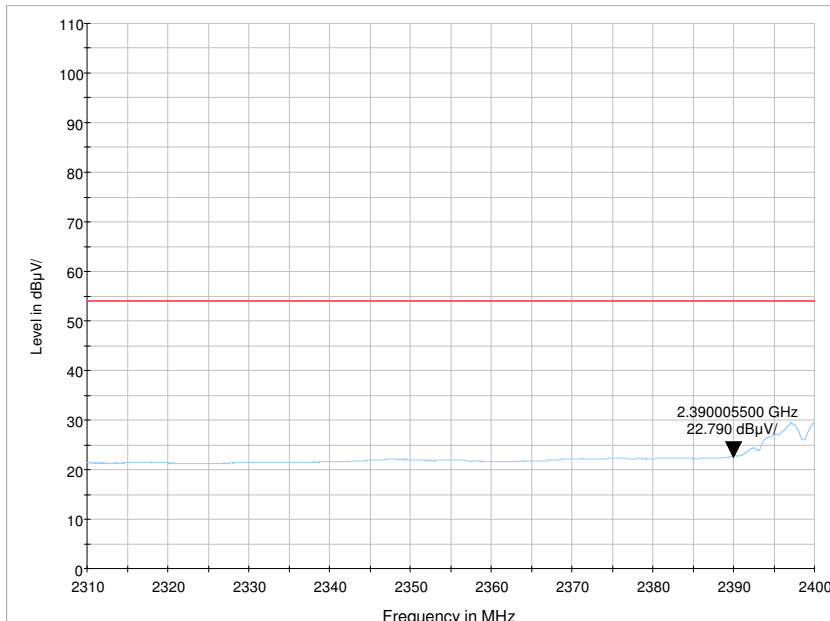


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2389.95	51.01	-12.2	38.81	74.0	-35.19
2500.56	53.06	-10.1	42.96	74.0	-31.04

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Horizontal, AVG Detector:

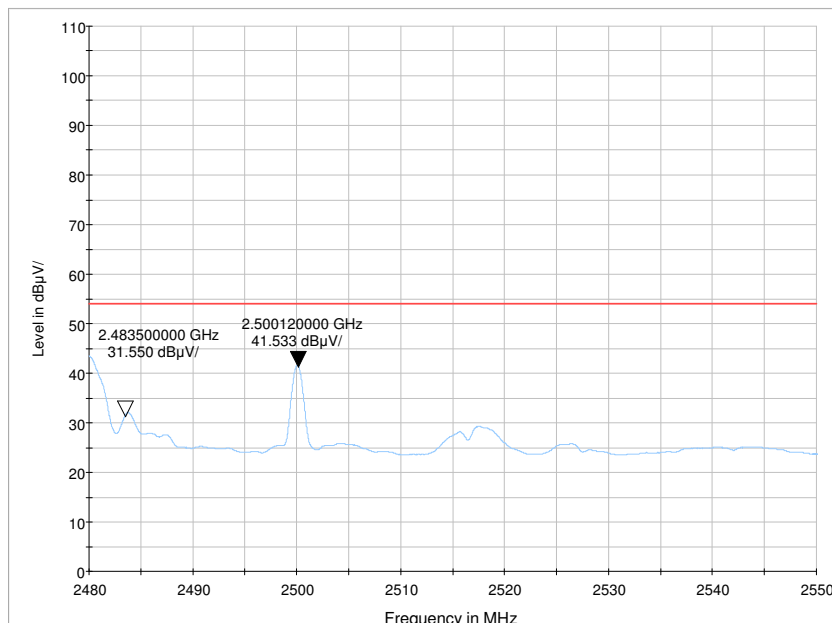
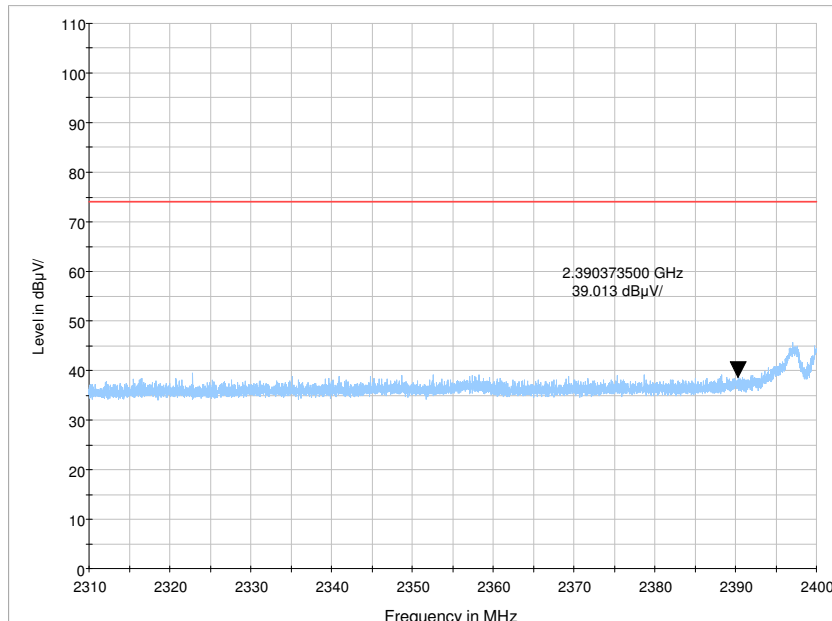


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2390.01	34.99	-12.2	22.79	54.0	-31.21
2500.12	45.00	-10.1	34.90	54.0	-19.10



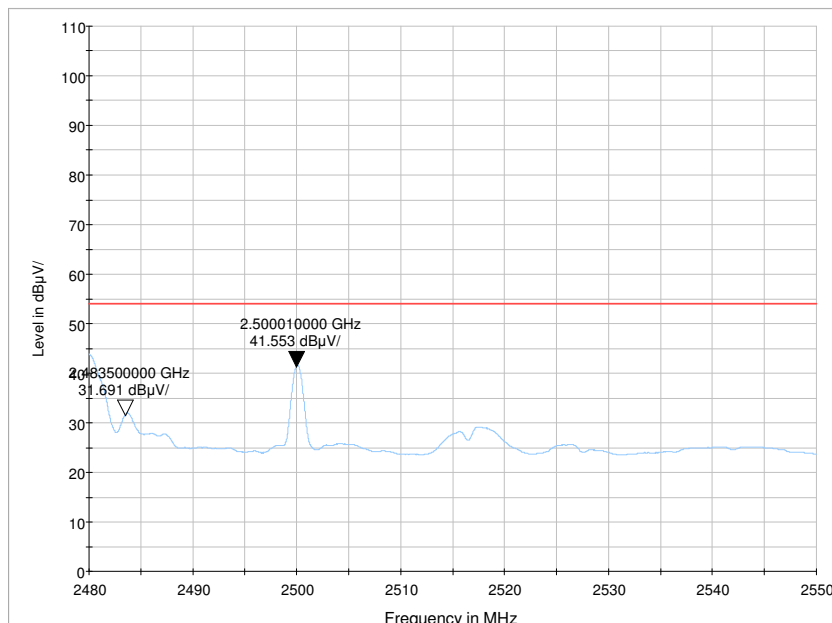
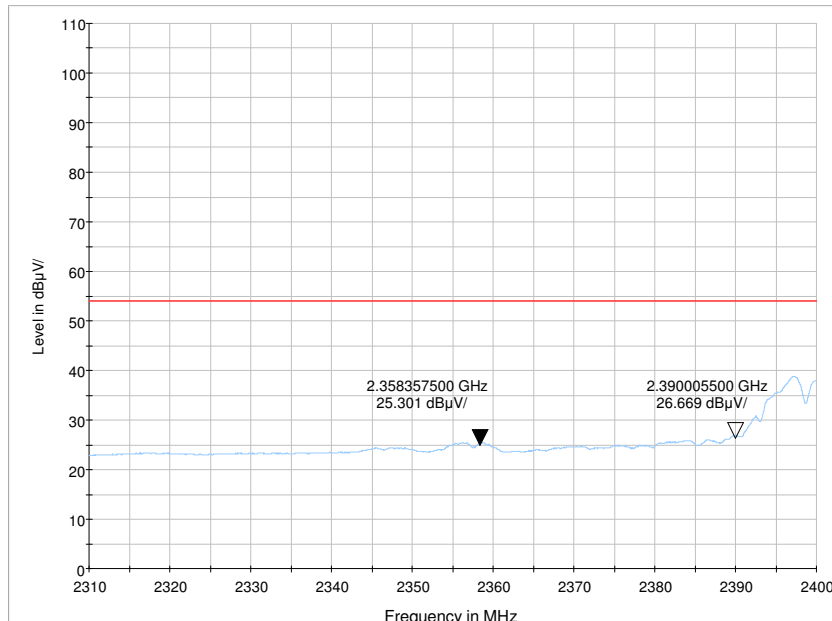
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2390.37	51.21	-12.2	39.01	74.0	-34.99
2500.12	51.63	-10.1	41.53	74.0	-32.47



Vertical, AVG Detector:



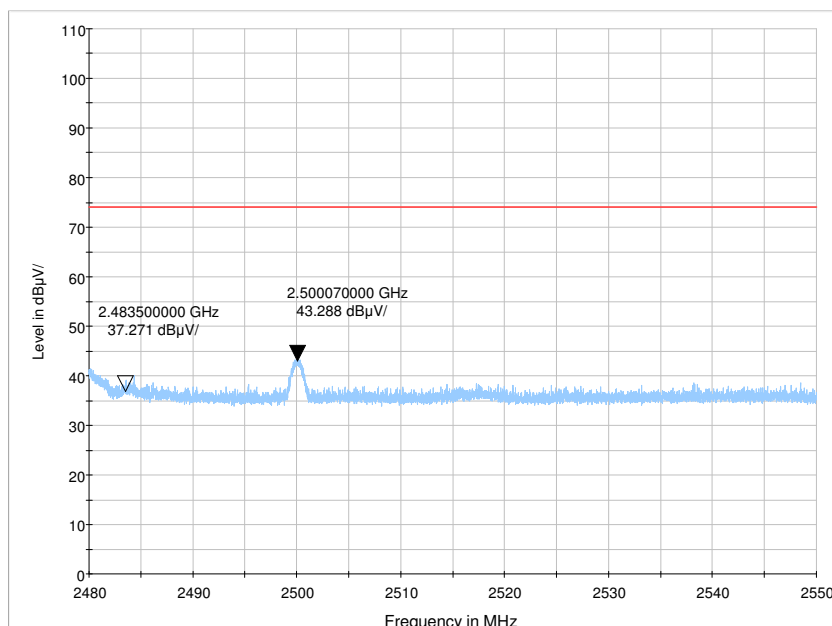
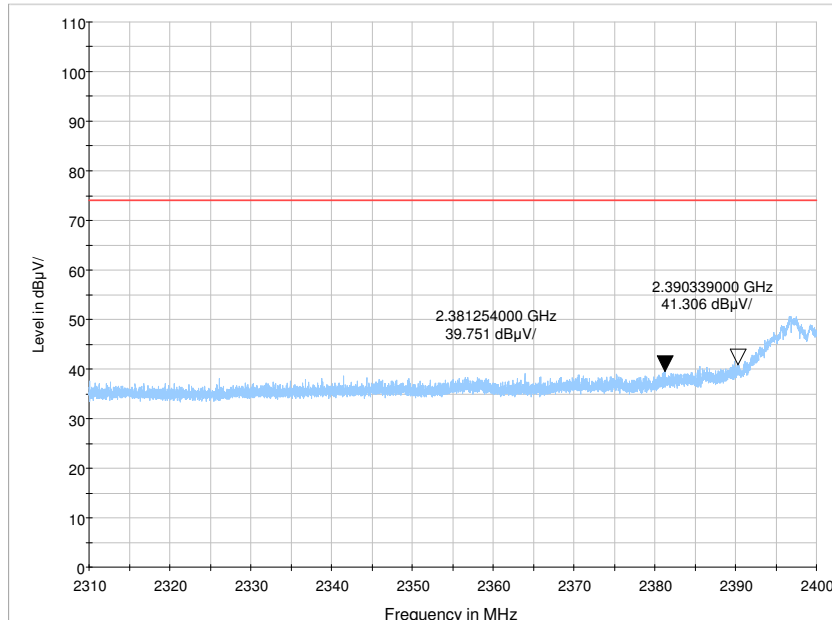
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	38.87	-12.2	26.67	54.0	-27.33
2500.01	51.65	-10.1	41.55	54.0	-12.45

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(Chain 010)

Horizontal, Peak Detector:

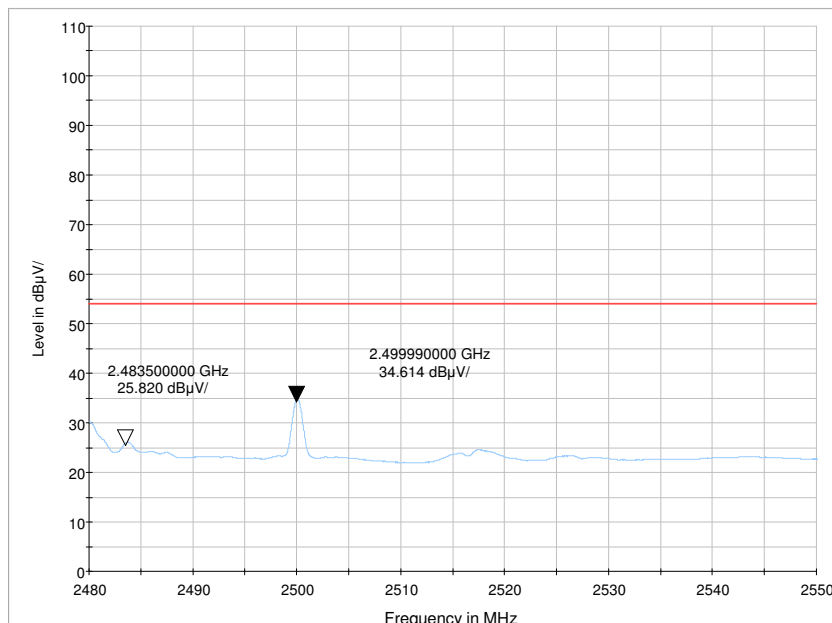
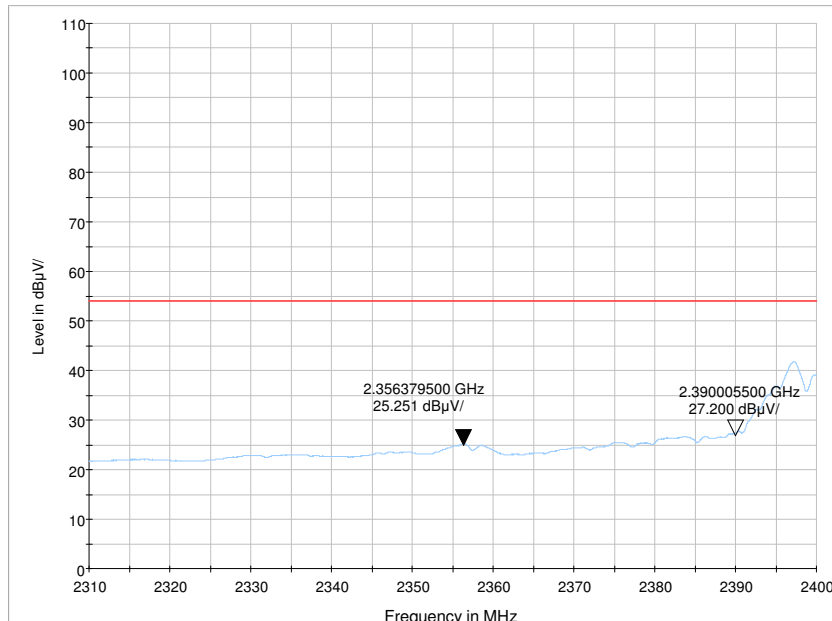


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2390.34	53.51	-12.2	41.31	74.0	-32.69
2500.07	53.39	-10.1	43.29	74.0	-30.71

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Horizontal, AVG Detector:

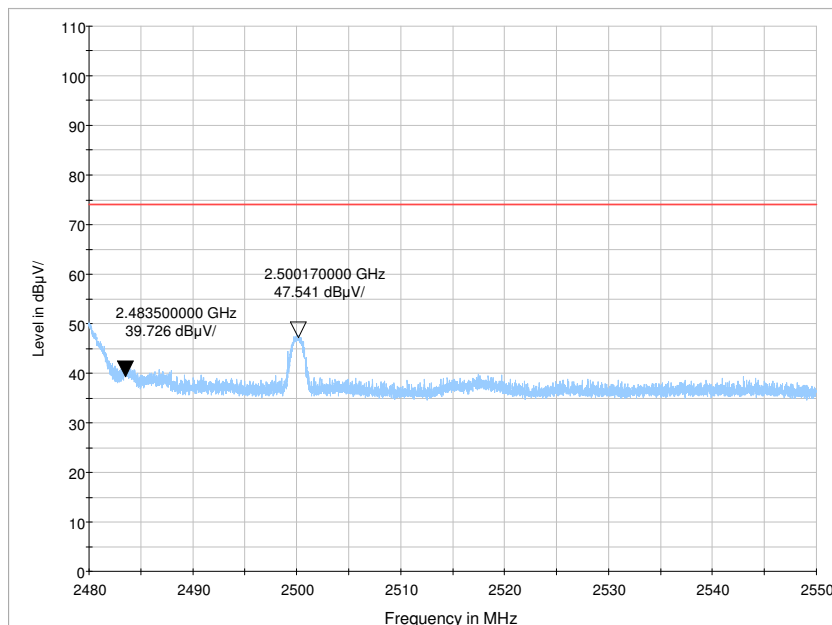
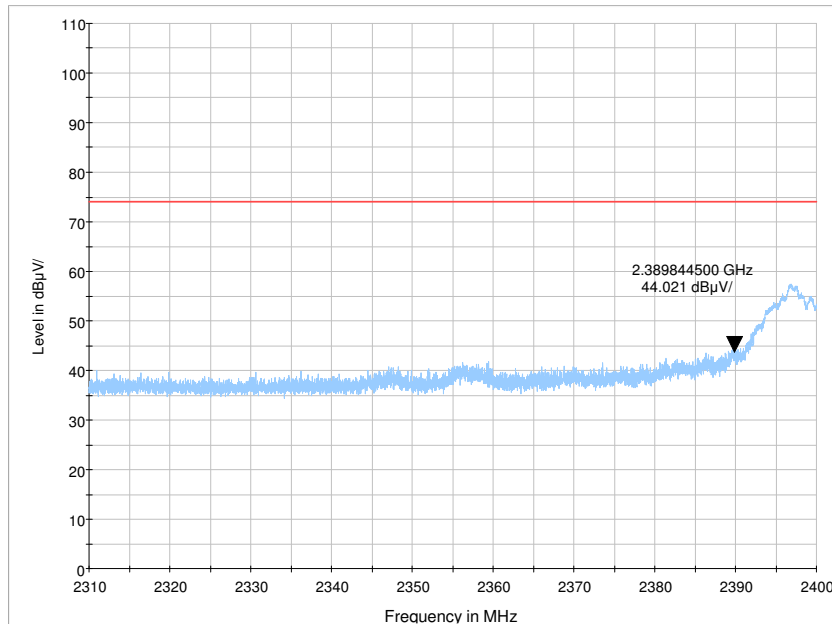


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	39.40	-12.2	27.20	54.0	-26.80
2499.99	44.71	-10.1	34.61	54.0	-19.39

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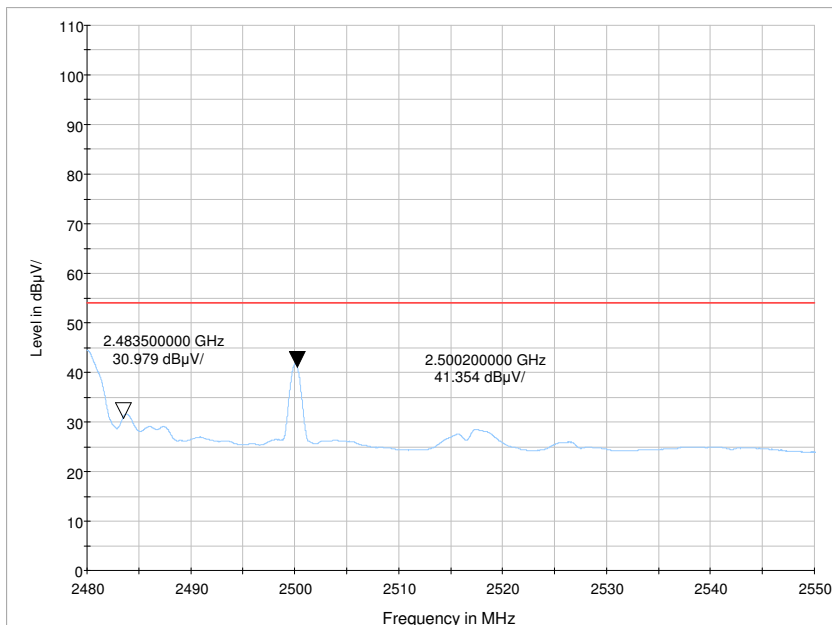
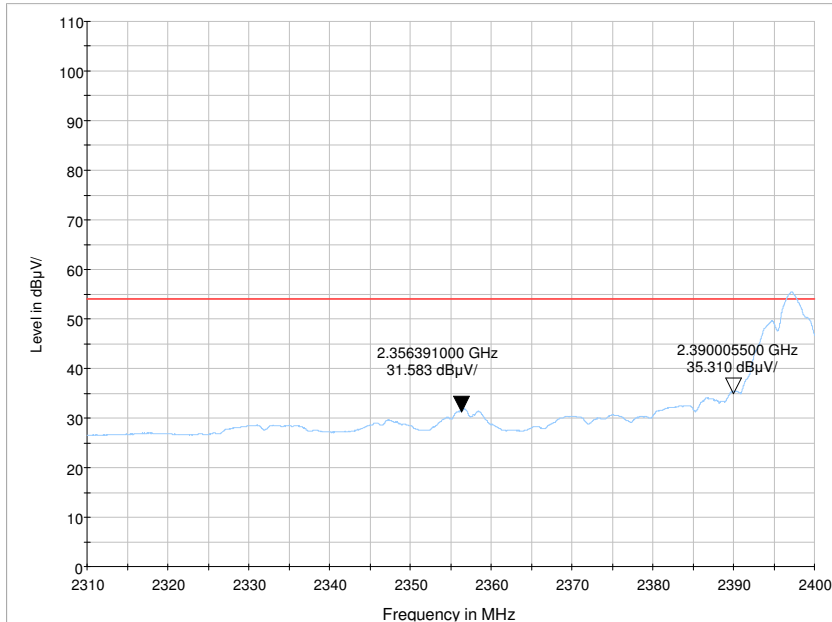
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.84	56.22	-12.2	44.02	74.0	-29.98
2500.17	57.64	-10.1	47.54	74.0	-26.46



Vertical, AVG Detector:



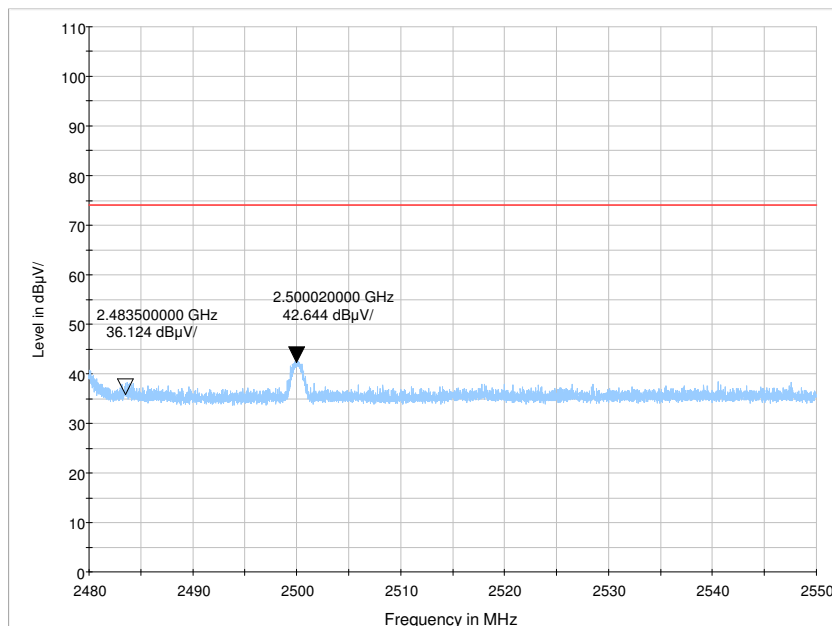
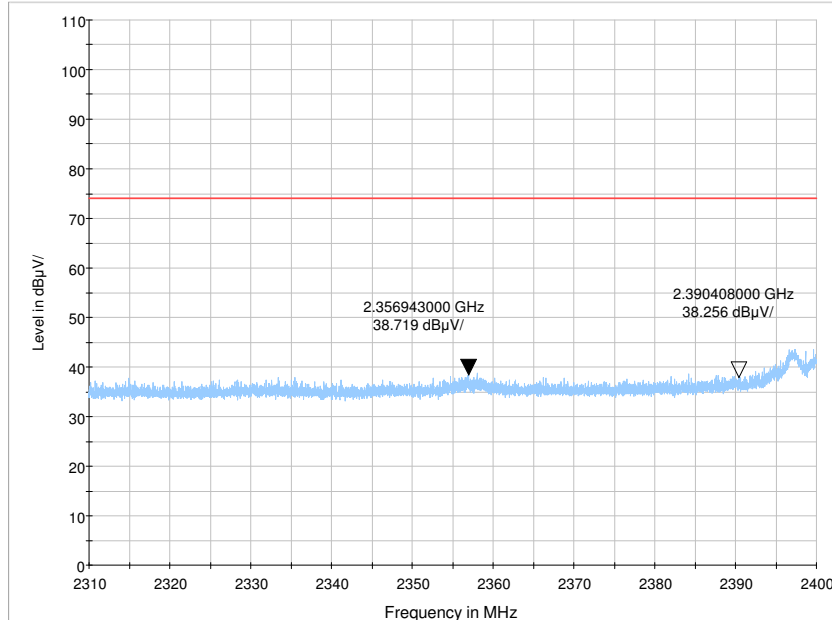
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	47.51	-12.2	35.31	54.0	-18.69
2500.20	51.45	-10.1	41.35	54.0	-12.65

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(Chain 001)

Horizontal, Peak Detector:

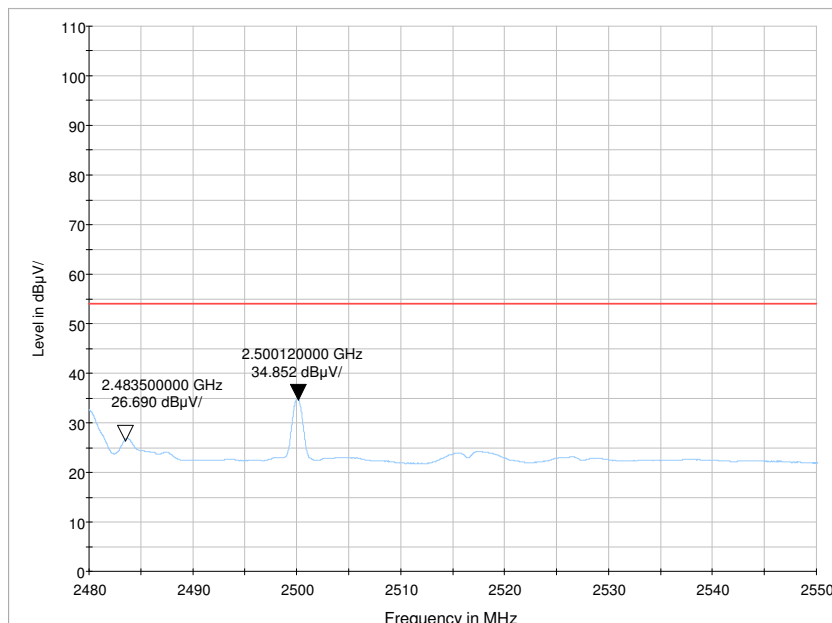
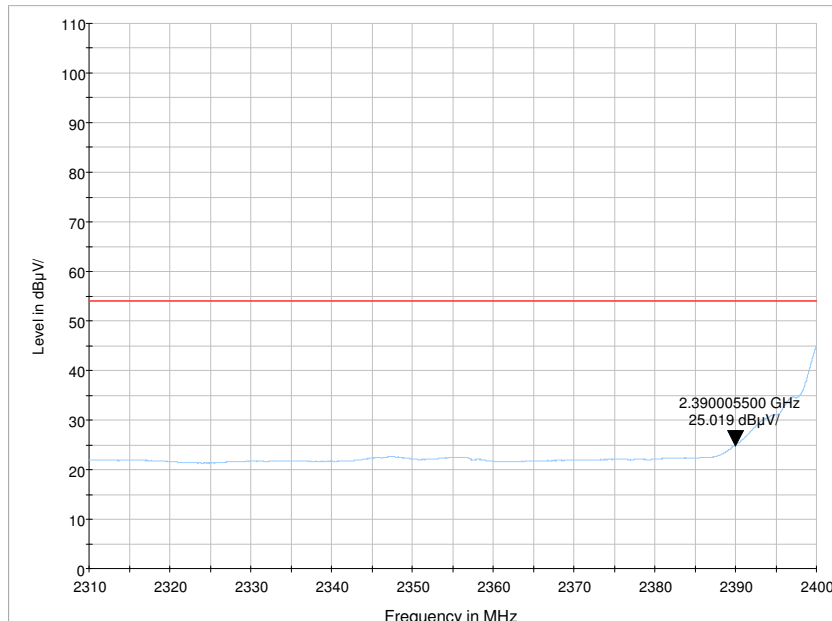


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2356.94	50.92	-12.2	38.72	74.0	-35.28
2500.00	52.74	-10.1	42.64	74.0	-31.36

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Horizontal, AVG Detector:

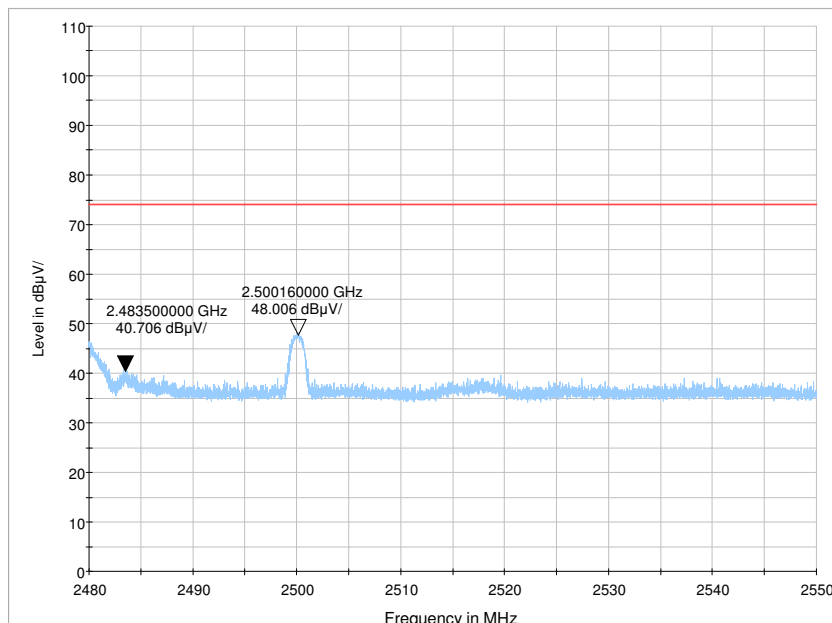
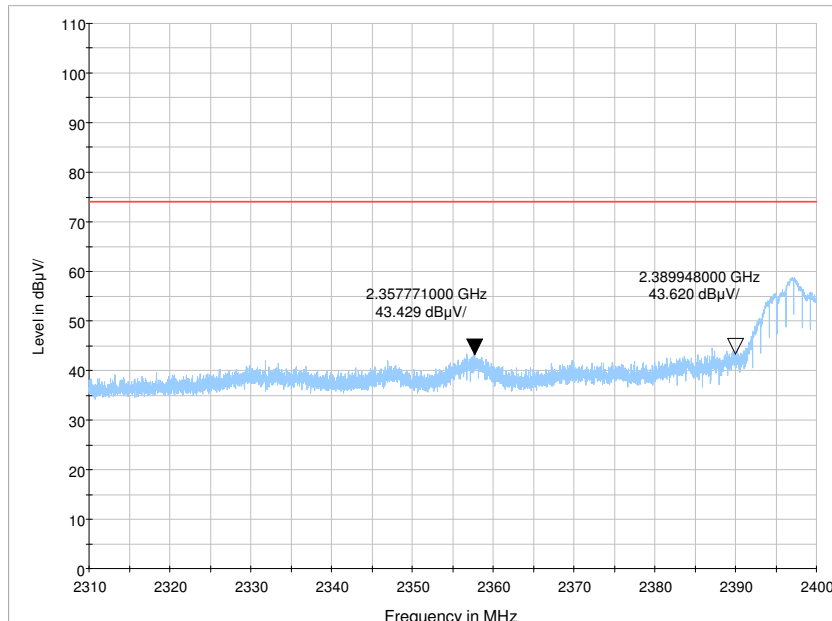


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	37.22	-12.2	25.02	54.0	-28.98
2499.98	44.95	-10.1	34.85	54.0	-19.15



Vertical, Peak Detector:

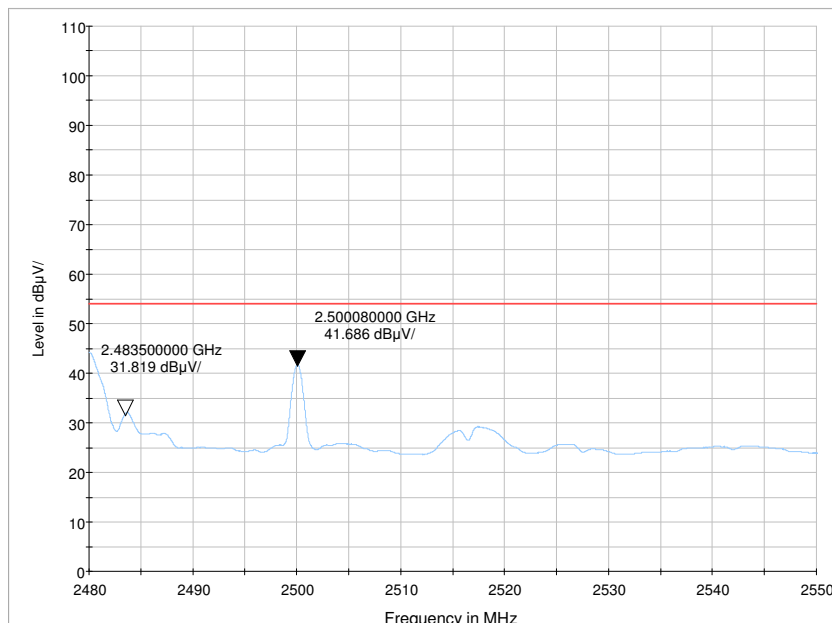
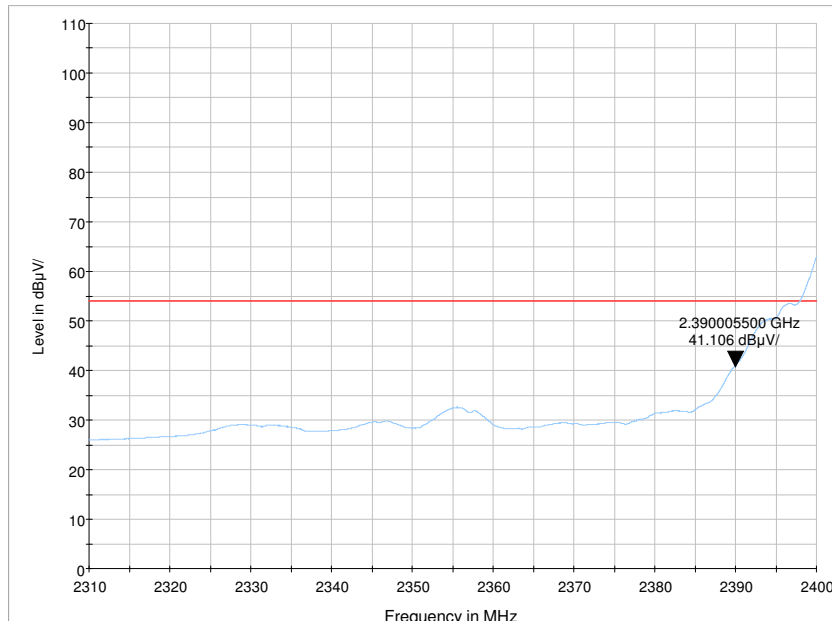


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.95	55.82	-12.2	43.62	74.0	-30.38
2500.16	58.11	-10.1	48.01	74.0	-25.99

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Vertical, AVG Detector:

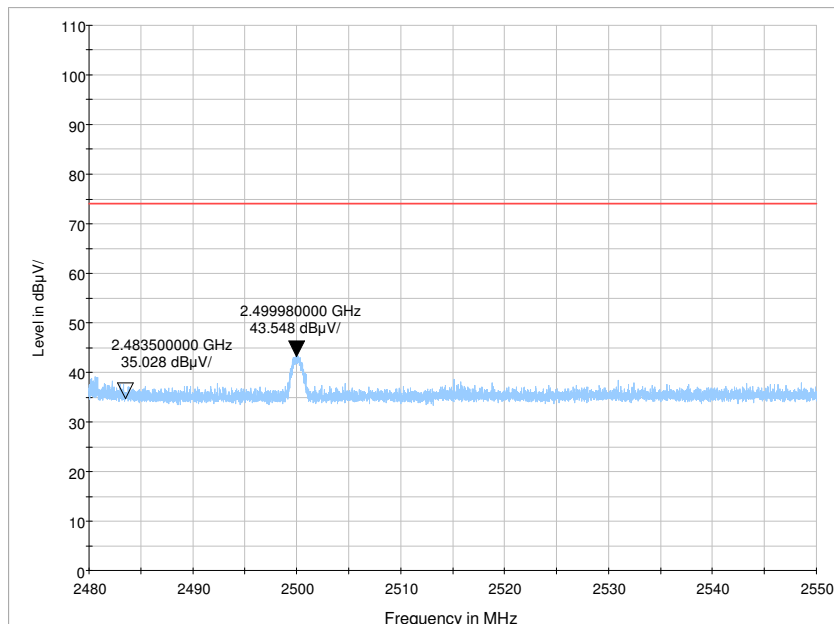
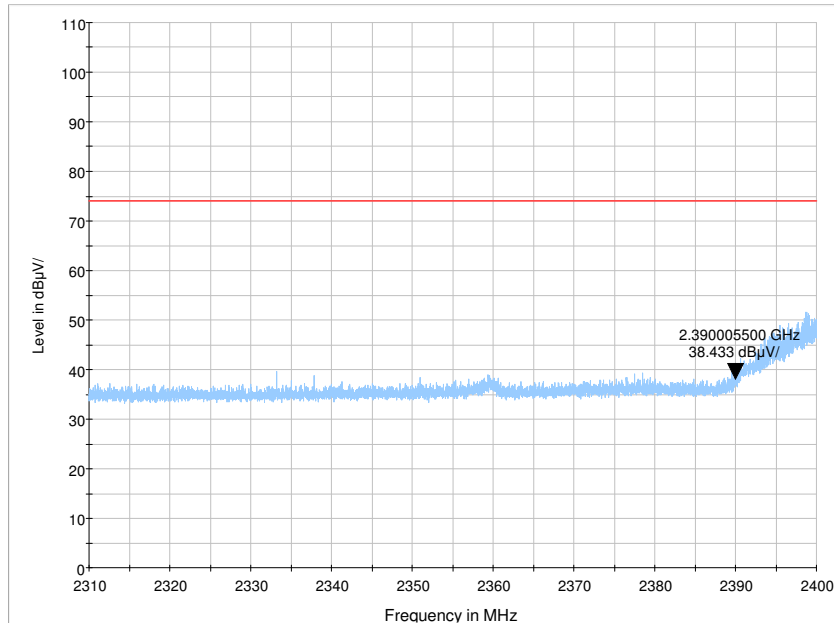


Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2390.01	53.31	-12.2	41.11	54.0	-12.89
2500.08	51.79	-10.1	41.69	54.0	-12.31



**CH 802.11g Mode 6Mbps
(Chain 100)**

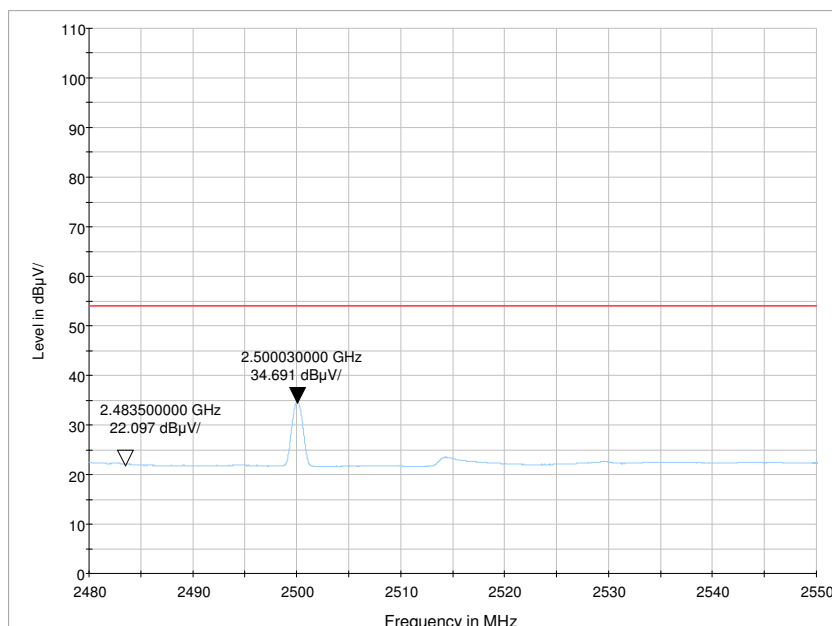
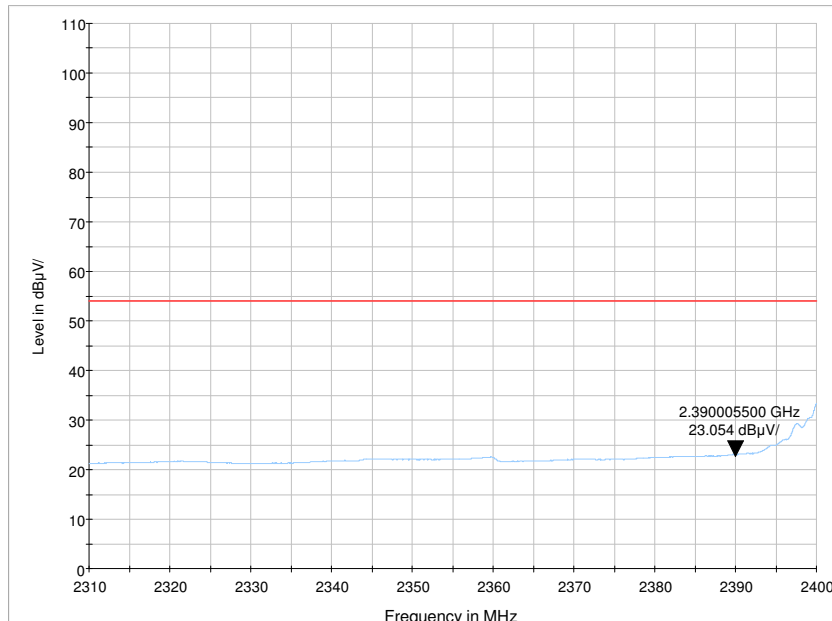
Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390	50.63	-12.2	38.43	74.0	-35.57
2499.98	53.65	-10.1	43.55	74.0	-30.45

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Horizontal, AVG Detector:

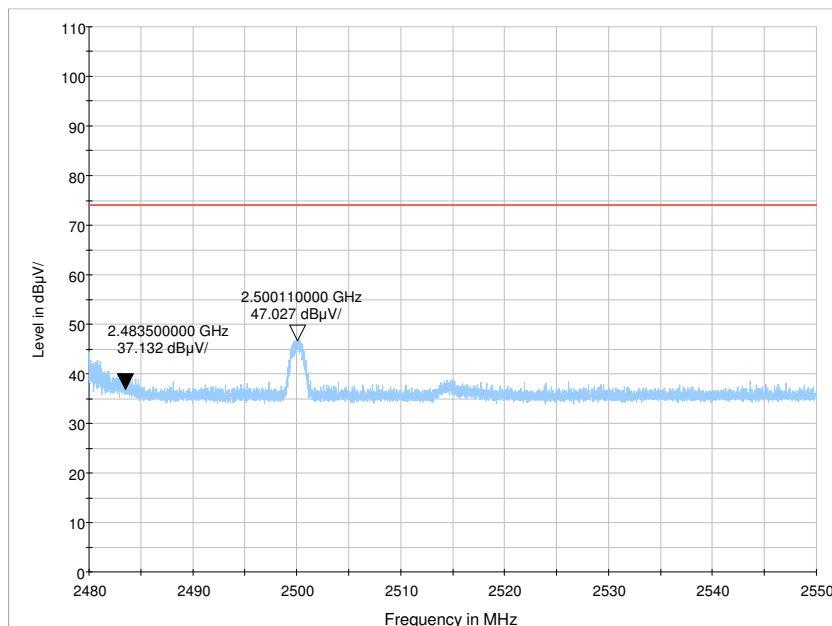
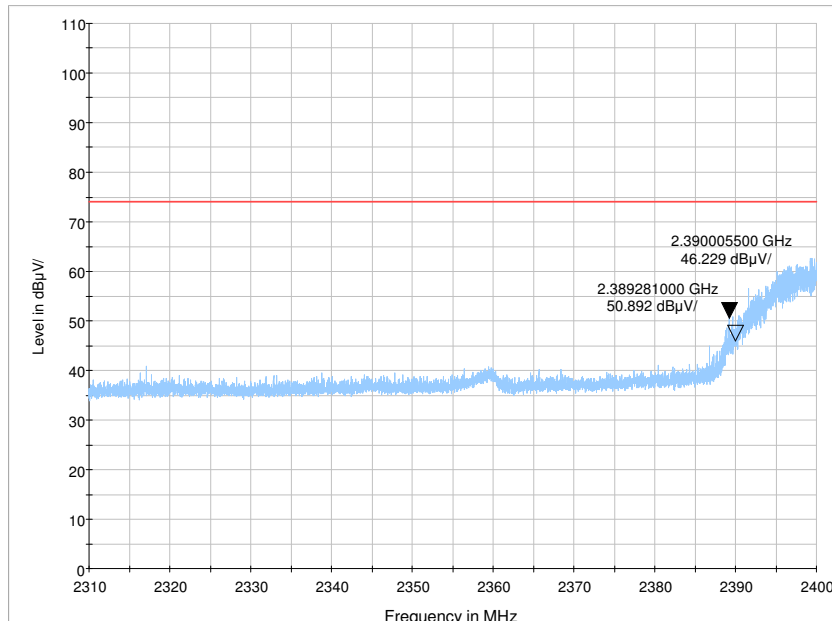


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390	35.25	-12.2	23.05	54.0	-30.95
2500.03	44.79	-10.1	34.69	54.0	-19.31



Vertical, Peak Detector:

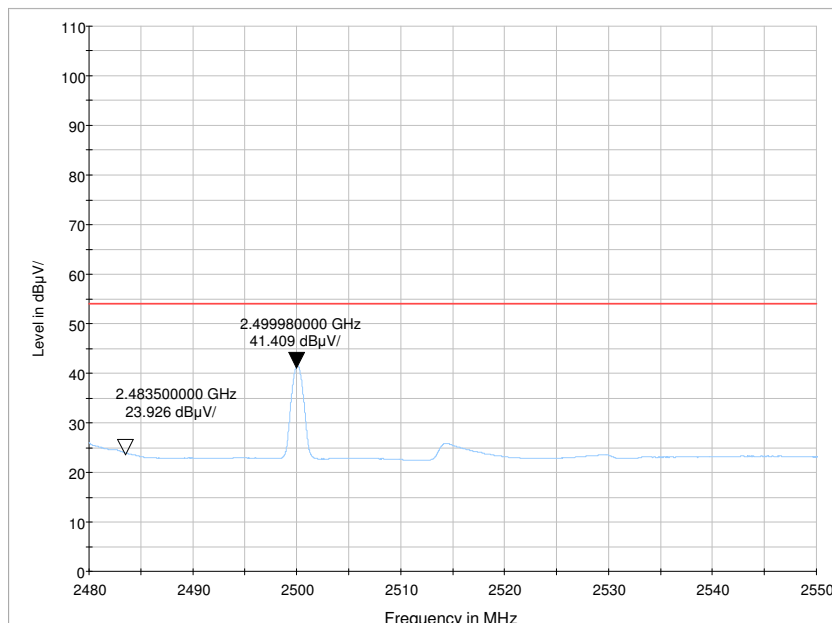
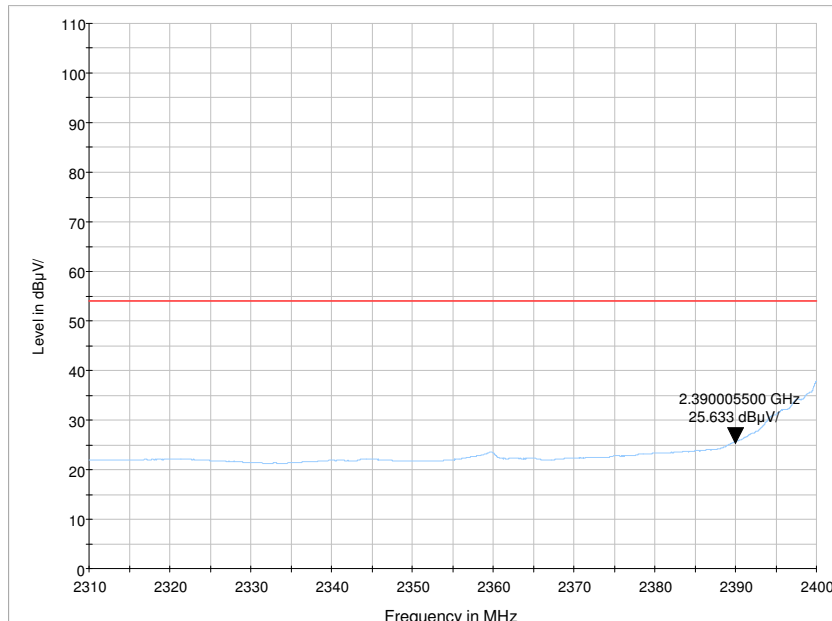


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2389.28	63.09	-12.2	50.89	74.0	-23.11
2500.11	57.13	-10.1	47.03	74.0	-26.97

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Vertical, AVG Detector:

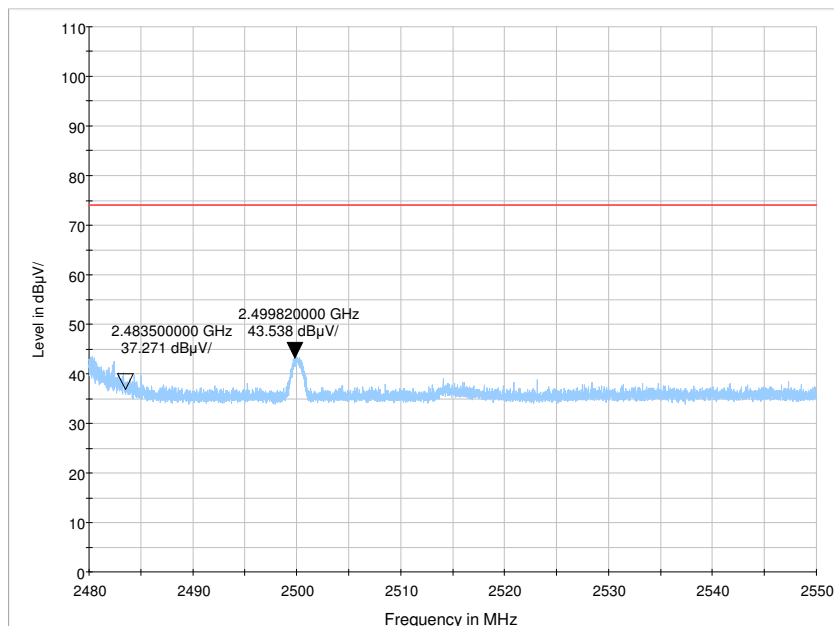
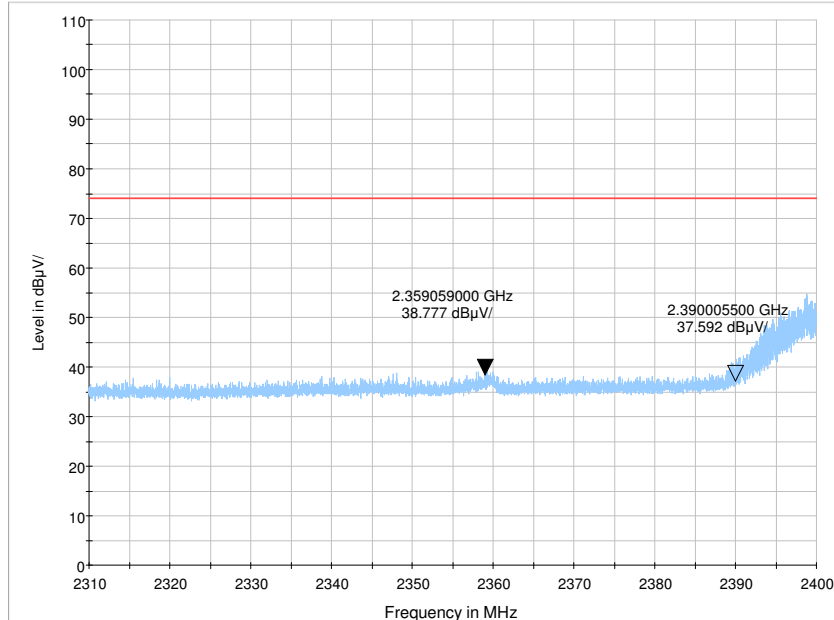


Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2390	37.83	-12.2	25.63	54.0	-28.37
2499.98	51.51	-10.1	41.41	54.0	-12.59



(Chain 010)

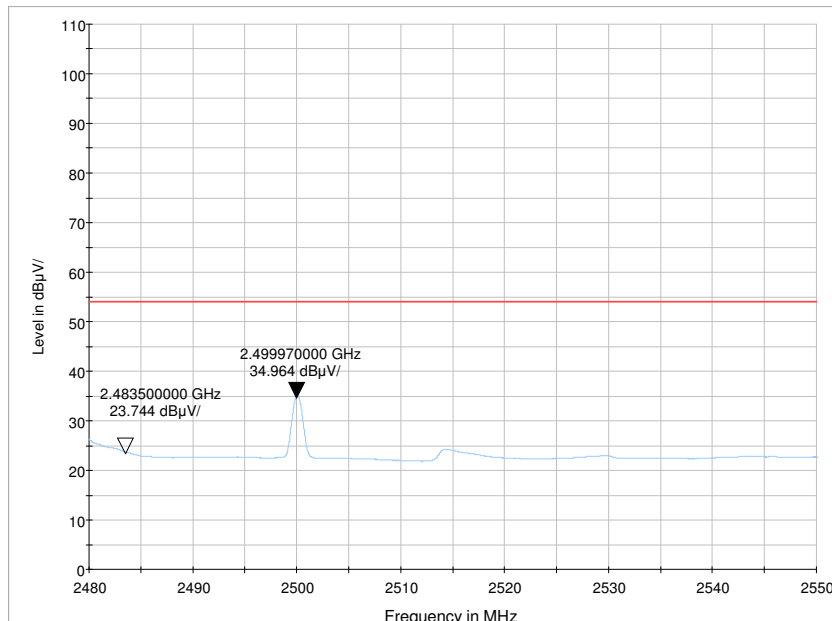
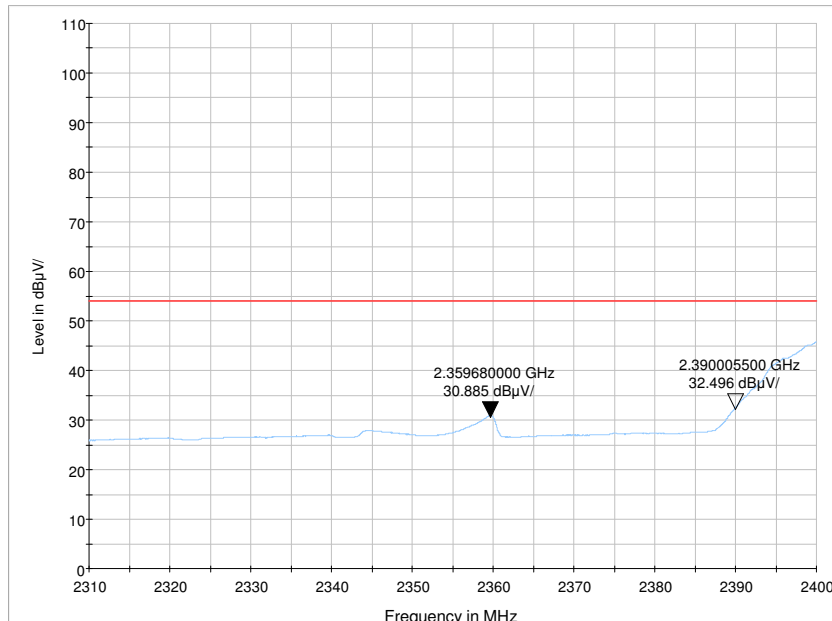
Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2359.06	50.98	-12.2	38.78	74.0	-35.22
2499.82	53.64	-10.1	43.54	74.0	-30.46



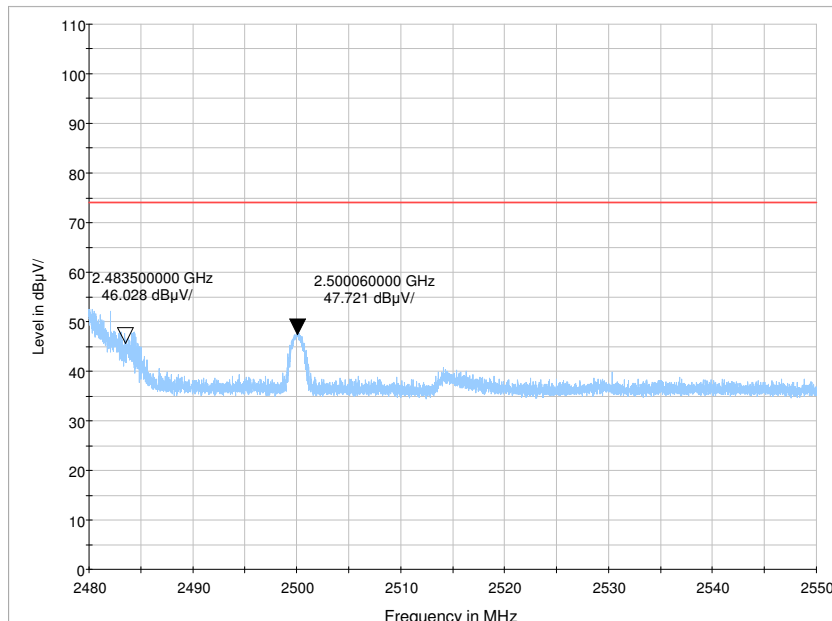
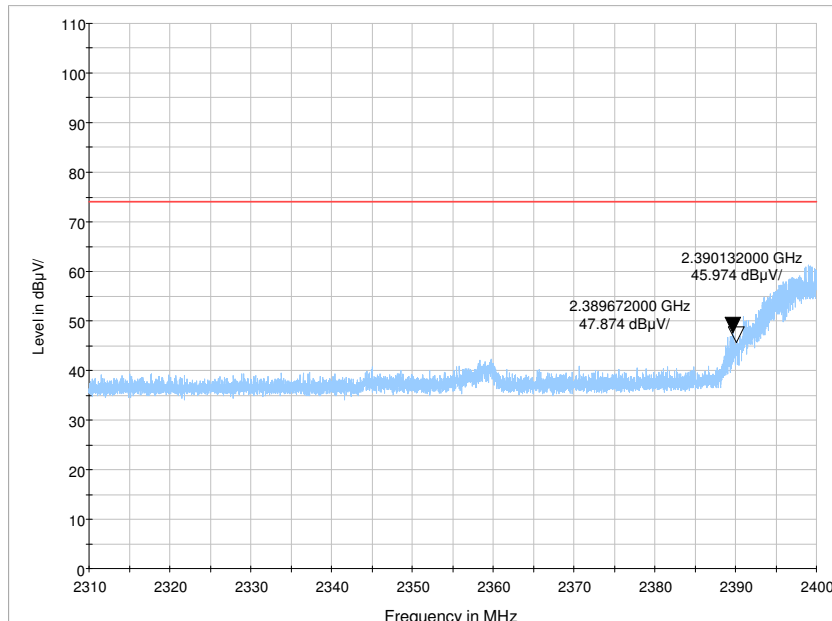
Horizontal, AVG Detector:



Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390	44.70	-12.2	32.50	54.0	-21.50
2499.97	45.06	-10.1	34.96	54.0	-19.04

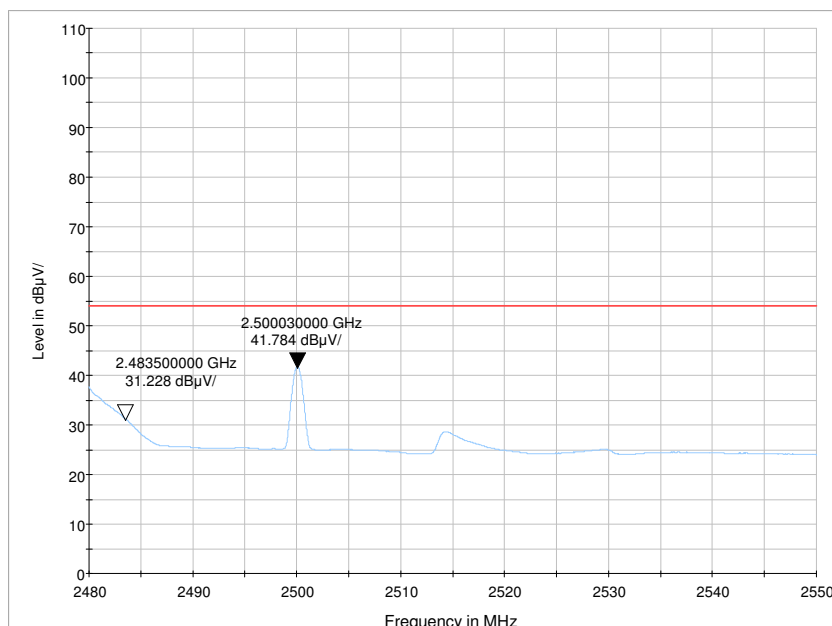
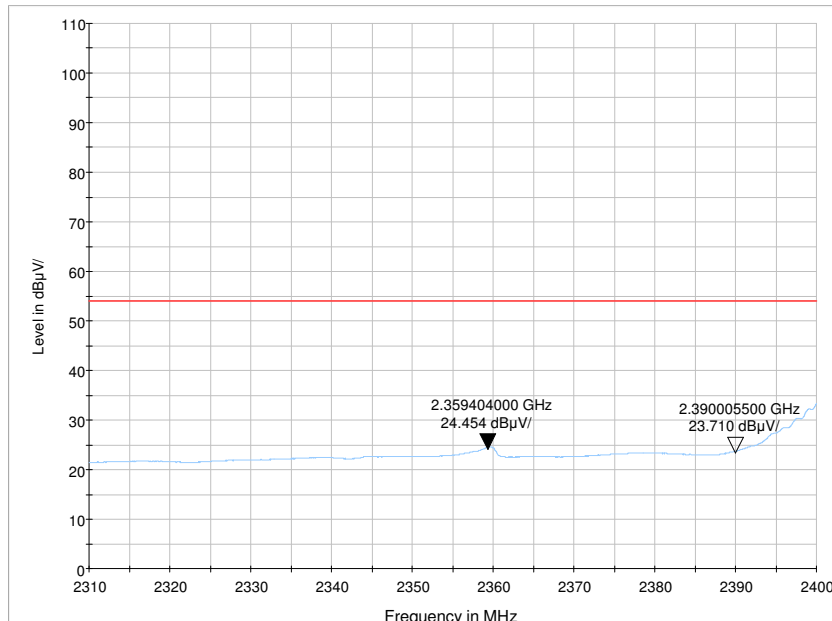
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2387.19	60.07	-12.2	47.87	74.0	-26.13
2500.21	57.82	-10.1	47.72	74.0	-26.28



Vertical, AVG Detector:



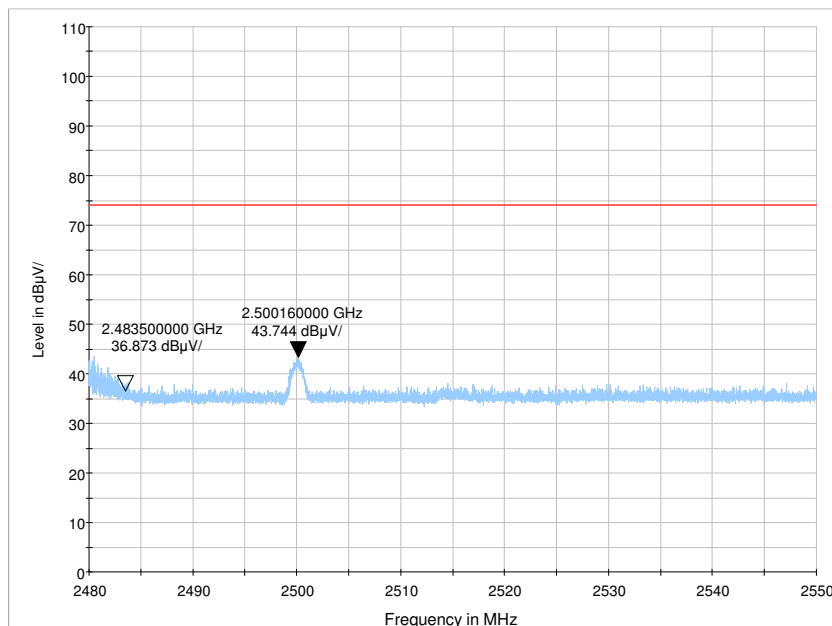
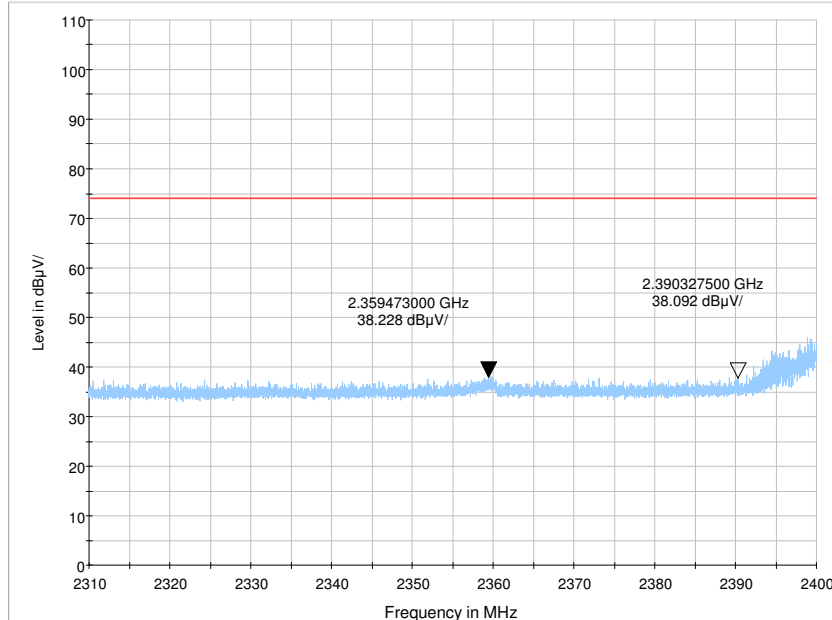
Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2343.26	36.65	-12.2	24.45	54.0	-29.55
2500.03	51.88	-10.1	41.78	54.0	-12.22

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(Chain 001)

Horizontal, Peak Detector:

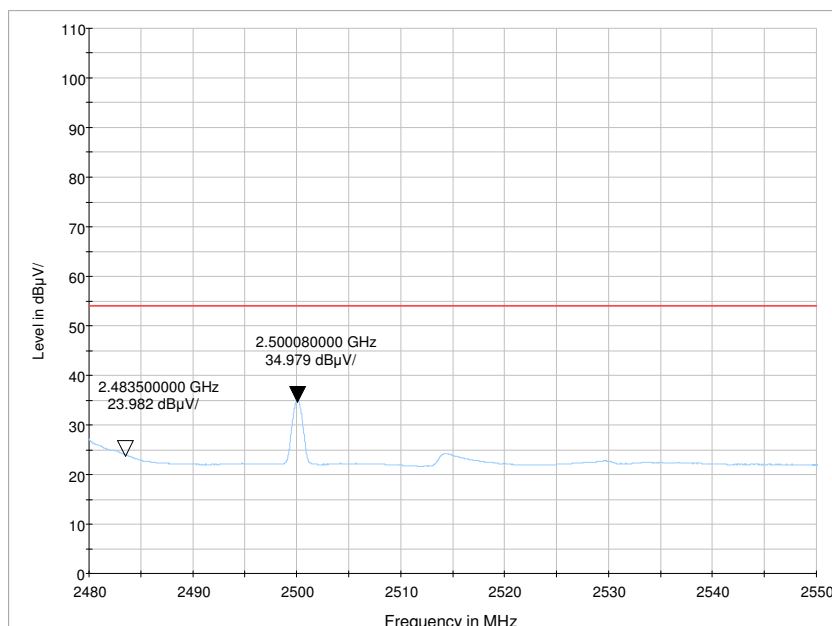
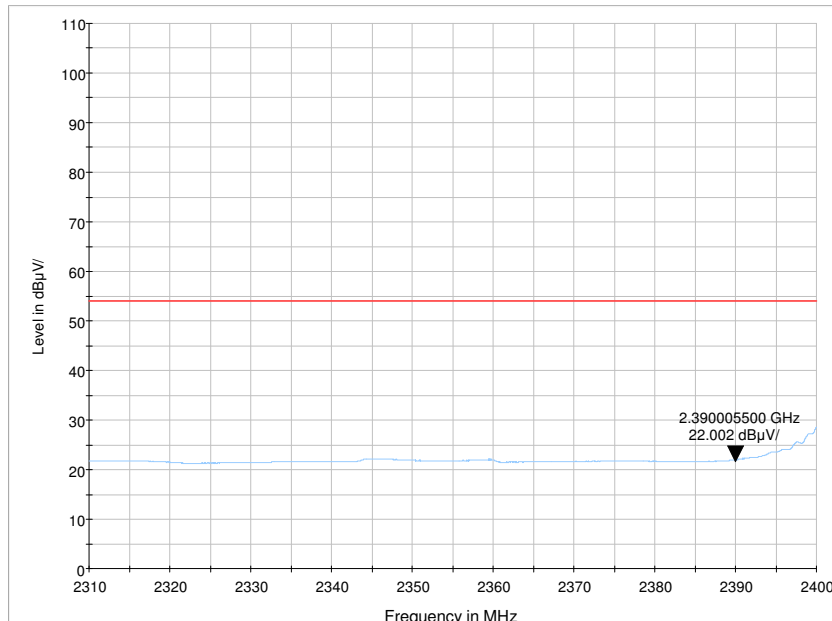


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2359.47	50.43	-12.2	38.23	74.0	-35.77
2500.28	53.84	-10.1	43.74	74.0	-30.26

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Horizontal, AVG Detector:

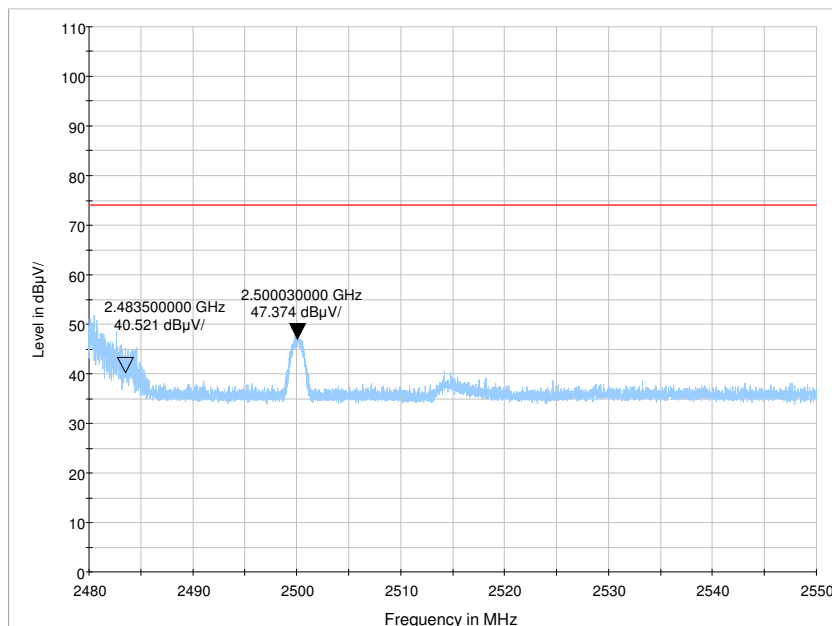
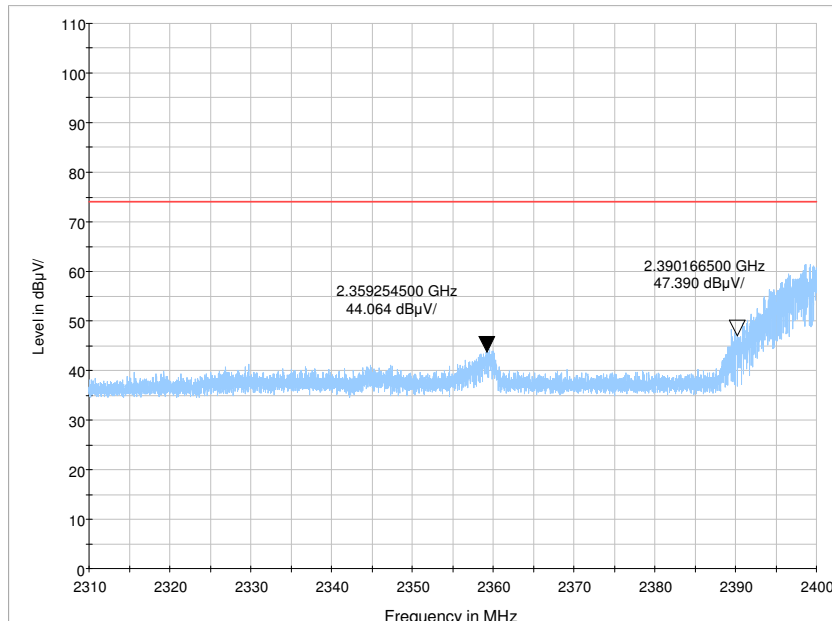


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2384.19	34.20	-12.2	22.00	54.0	-32.00
2500.08	45.08	-10.1	34.98	54.0	-19.02



Vertical, Peak Detector:

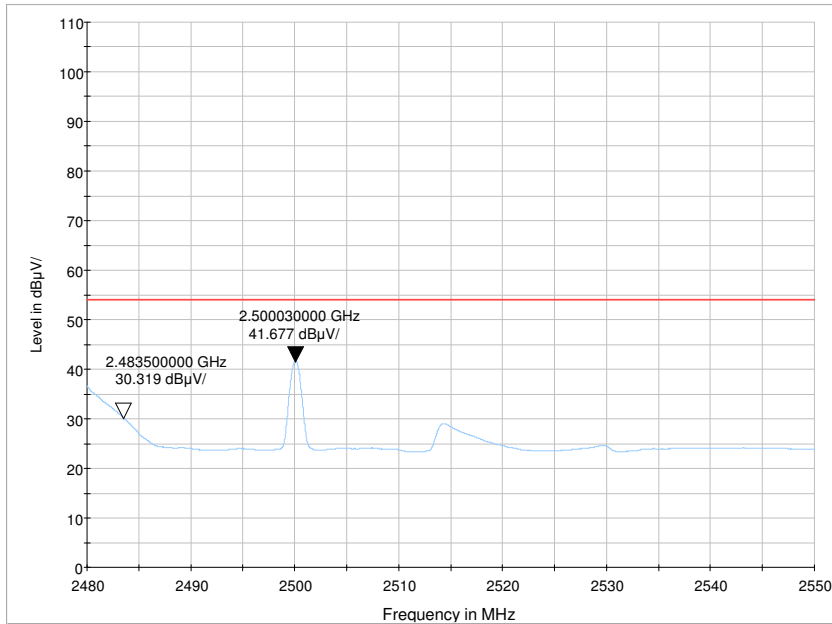
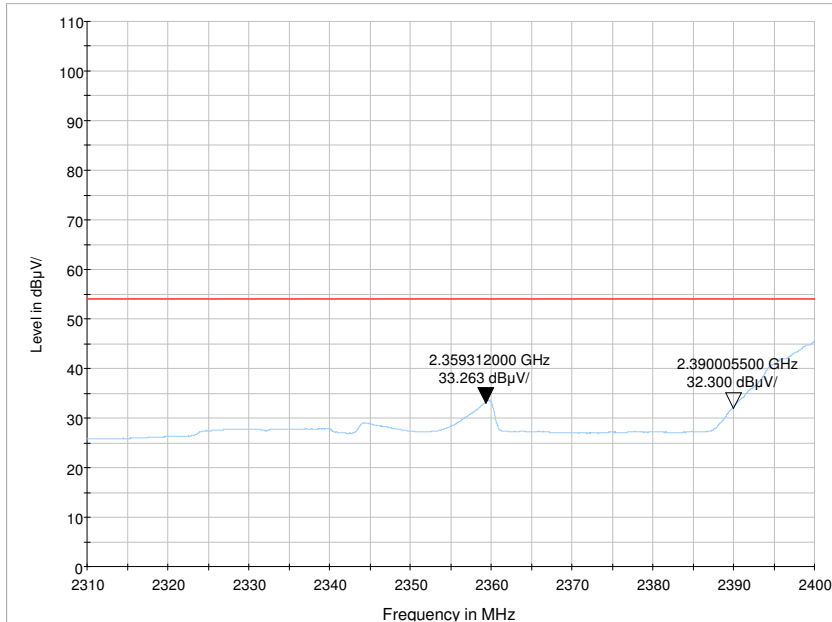


Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.17	59.59	-12.2	47.39	74.0	-26.61
2500.03	57.47	-10.1	47.37	74.0	-26.63

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Vertical, AVG Detector:



Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2384.47	45.46	-12.2	33.26	54.0	-20.74
2500.03	51.78	-10.1	41.68	54.0	-12.32

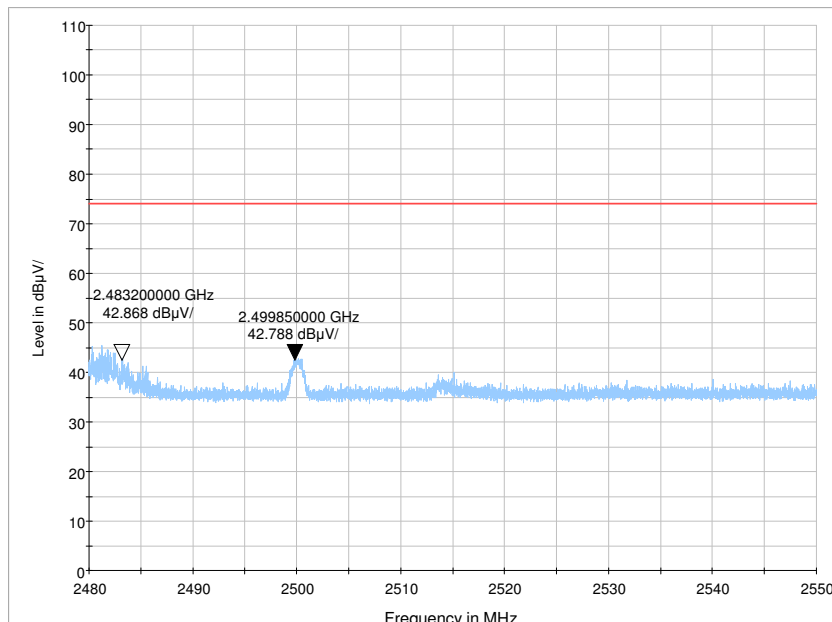
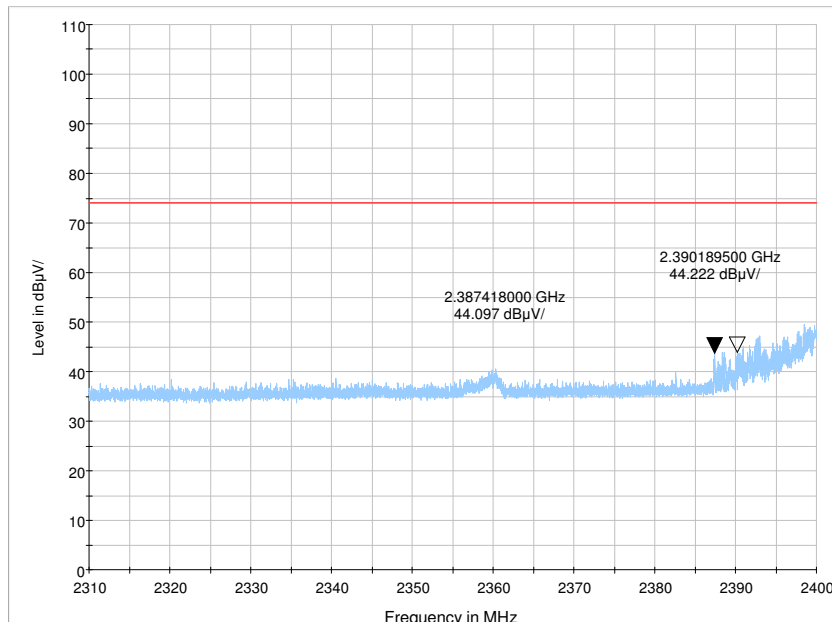
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802.11n 2.4G(20MHz BW) Mode 6.5 Mbps

(Chain 111)

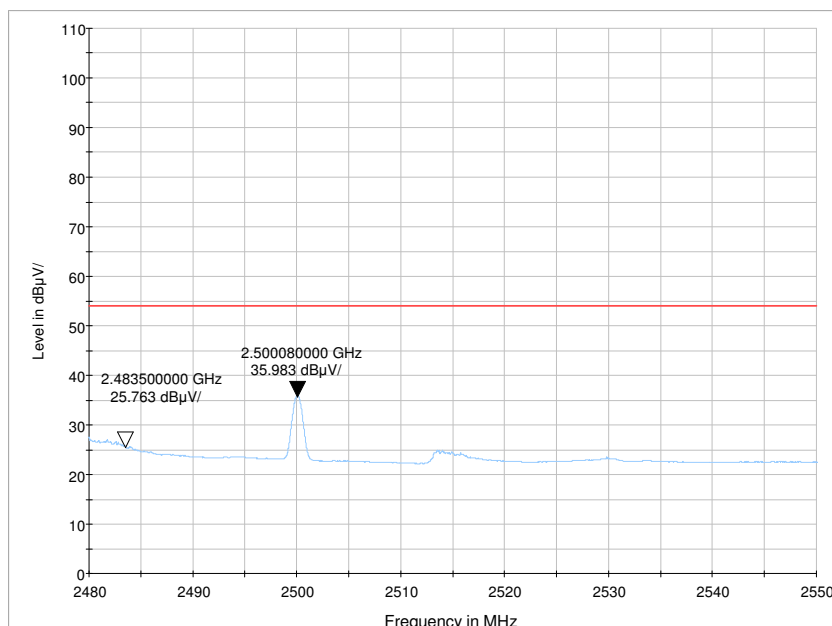
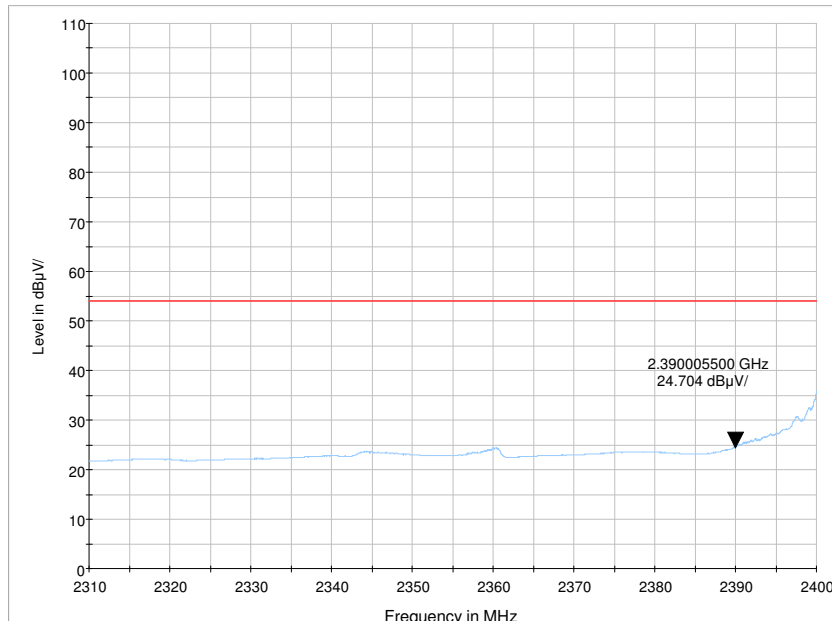
Horizontal, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.19	56.42	-12.2	44.22	74.0	-29.78
2483.20	52.97	-10.1	42.87	74.0	-31.13

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Horizontal, AVG Detector:

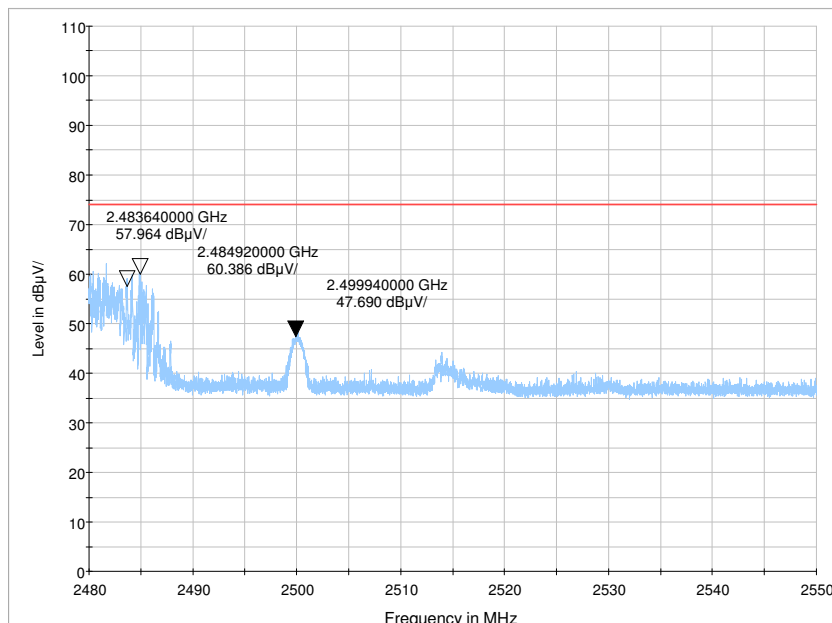
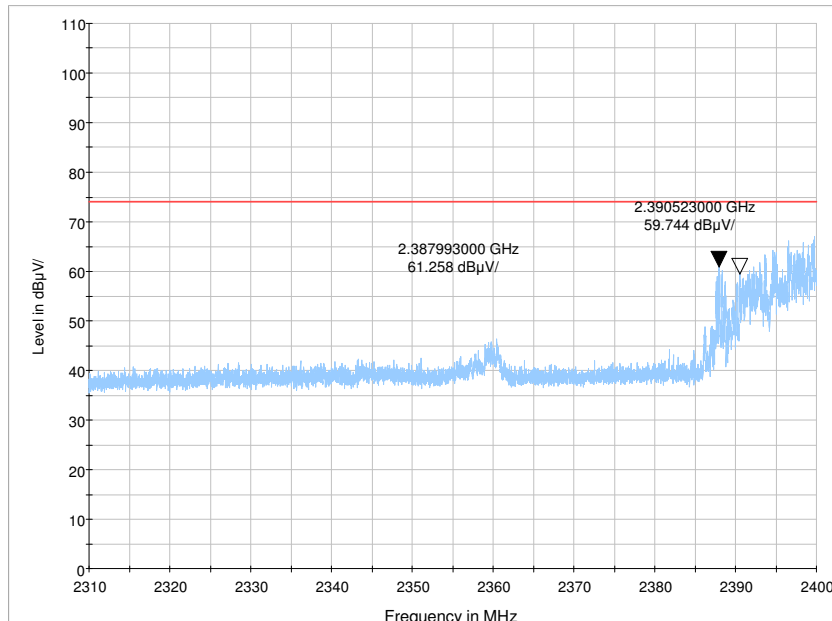


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2390	36.90	-12.2	24.70	54.0	-29.30
2500.08	46.08	-10.1	35.98	54.0	-18.02



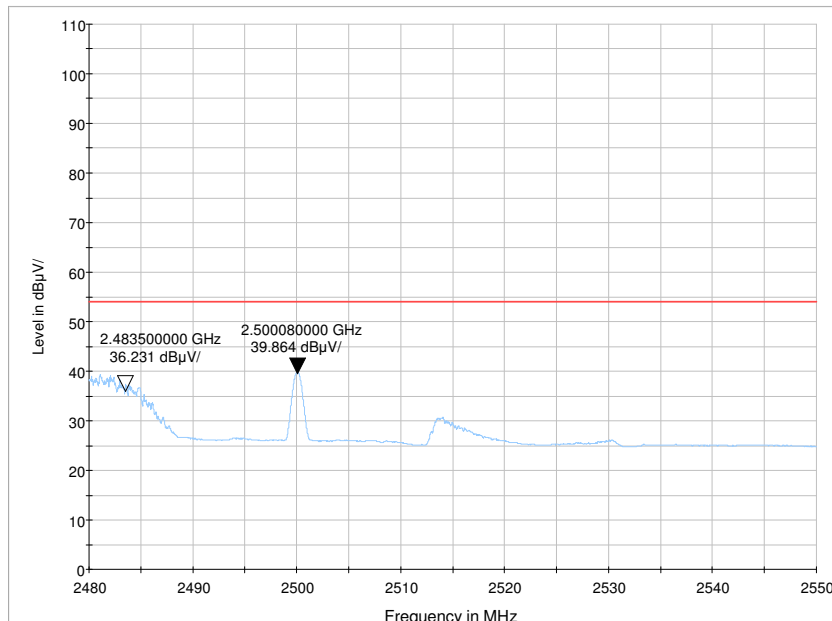
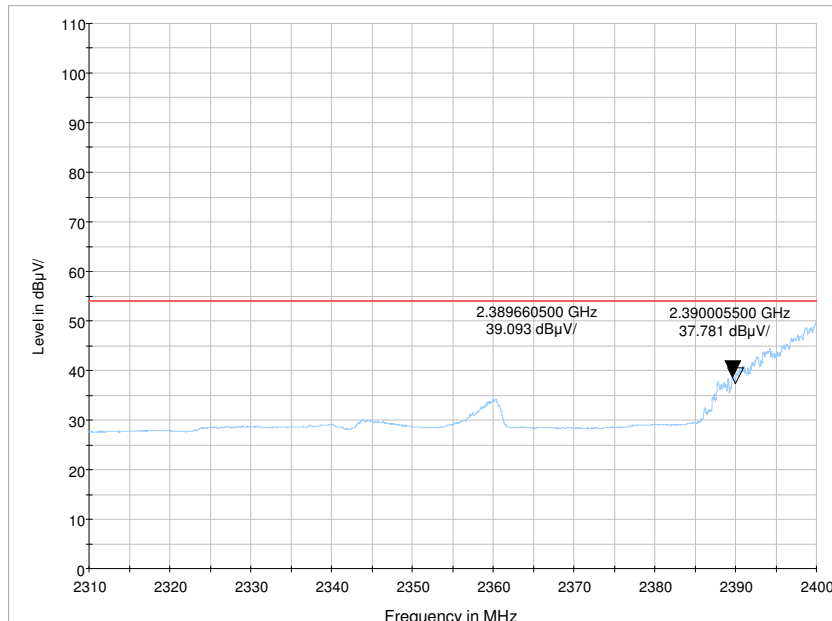
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2387.99	73.46	-12.2	61.26	74.0	-12.74
2484.92	70.49	-10.1	60.39	74.0	-13.61



Vertical, AVG Detector:

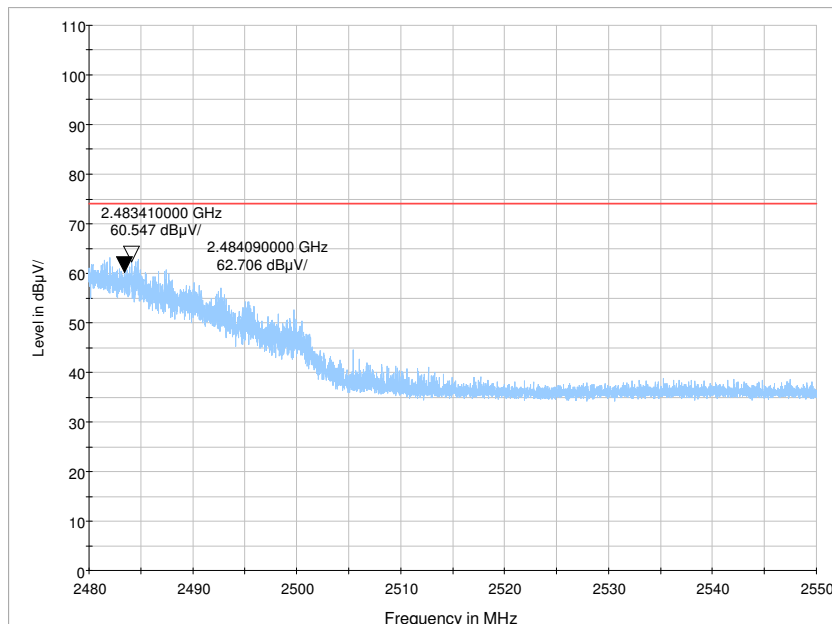
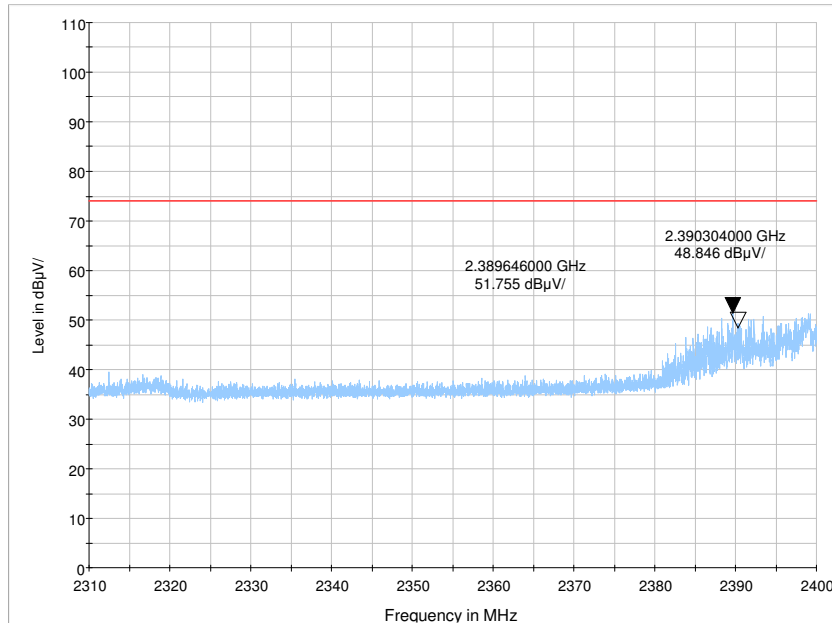


Frequency (MHz)	AV Reading (dBµV)	Factor (dB/m)	AV Level (dBµV/m)	AV Limit (dBµV/m)	Margin (dB)
2389.66	51.29	-12.2	39.09	54.0	-14.91
2500.08	49.96	-10.1	39.86	54.0	-14.14



**802.11n 2.4G Band (40MHz BW) Mode 6.5Mbps
(Chain 111)**

Horizontal, Peak Detector:

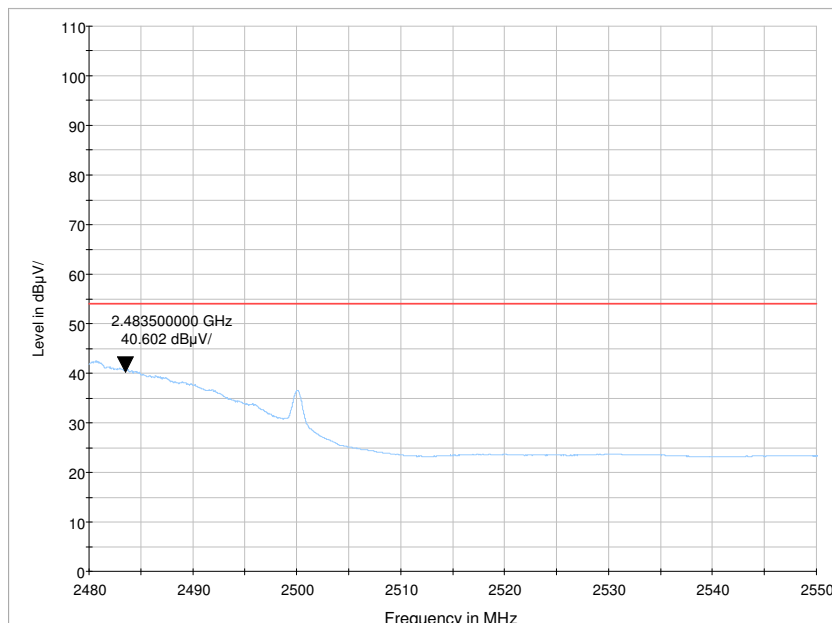
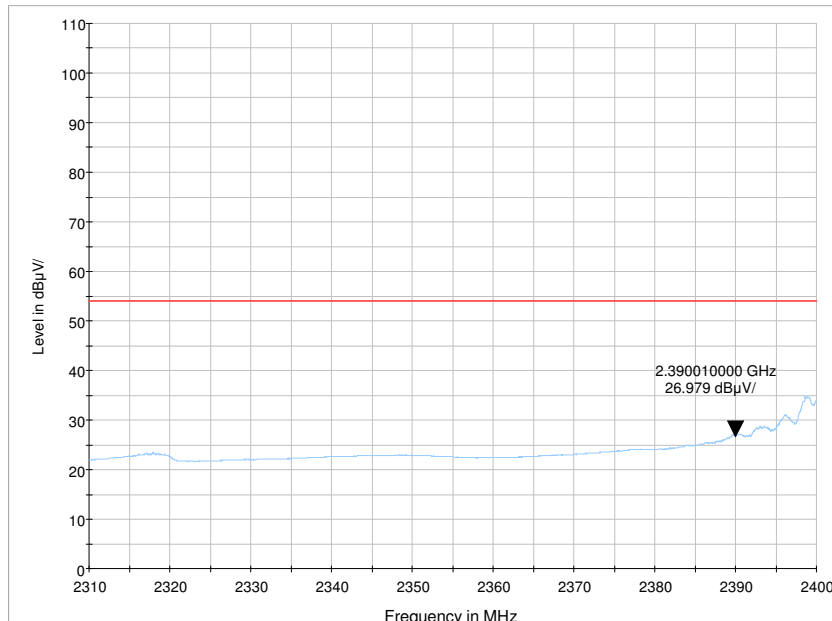


Frequency (MHz)	Peak Reading (dBuV)	Factor (dB/m)	Peak Level (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)
2389.65	63.96	-12.2	51.76	74.0	-22.24
2484.09	72.81	-10.1	62.71	74.0	-11.29

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Horizontal, AVG Detector:

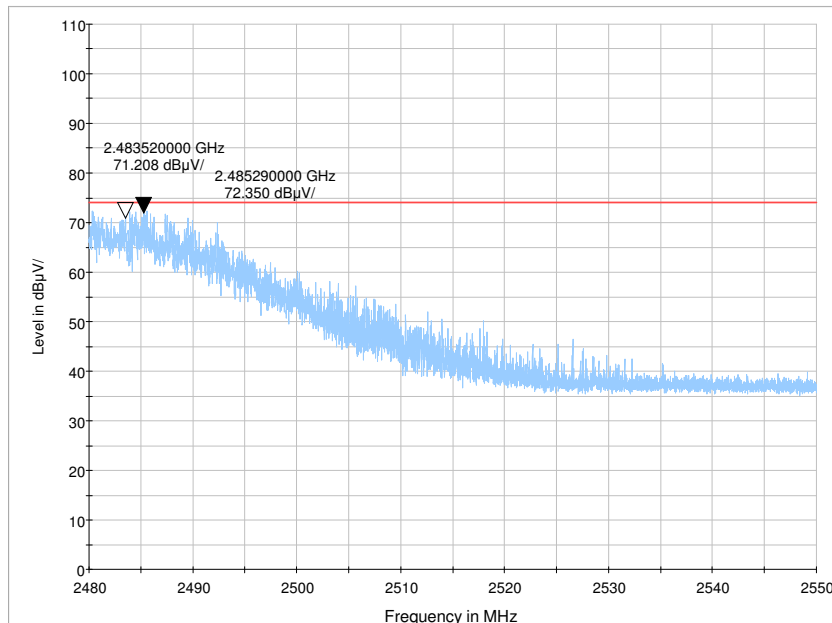
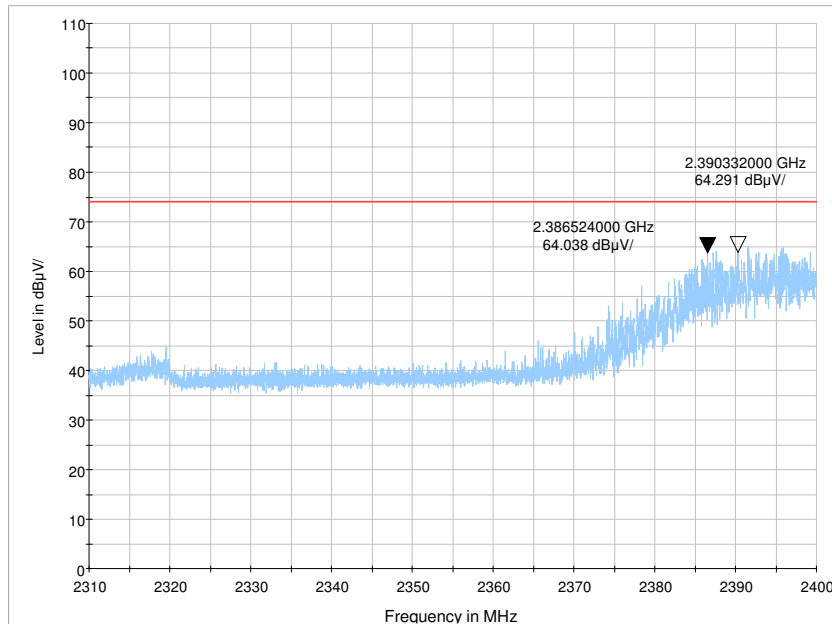


Horizontal, AV Detector:

Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	39.18	-12.2	26.98	54.0	-27.02
2483.5	50.70	-10.1	40.60	54.0	-13.40



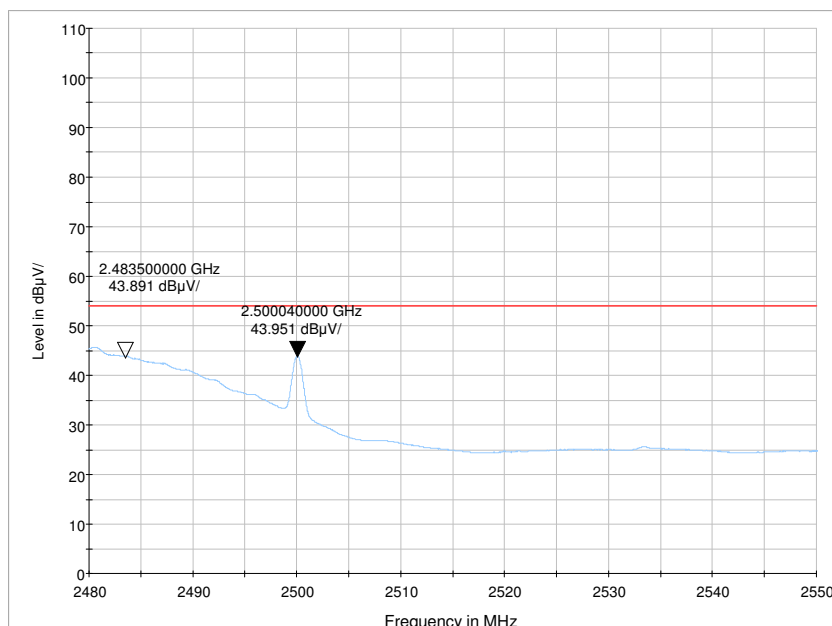
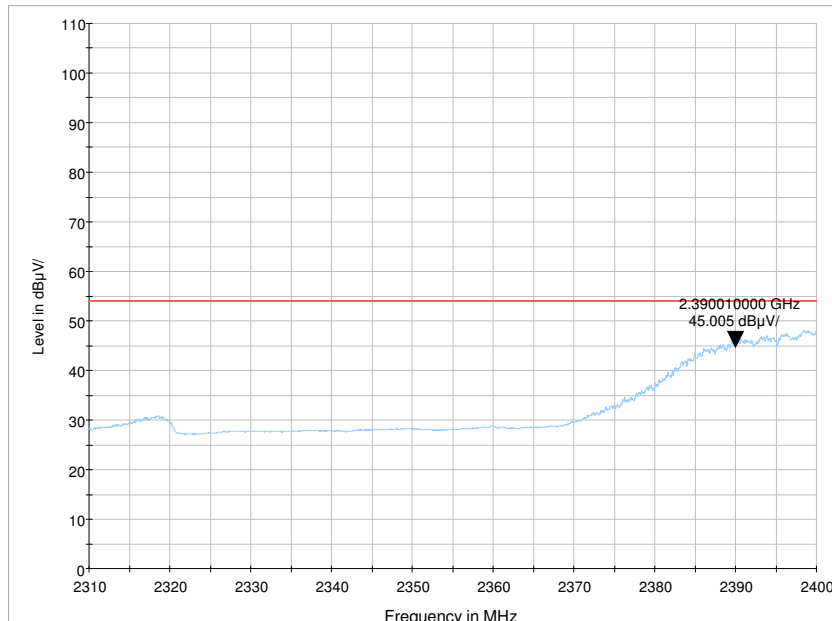
Vertical, Peak Detector:



Frequency (MHz)	Peak Reading (dBµV)	Factor (dB/m)	Peak Level (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
2390.33	76.49	-12.2	64.29	74.0	-9.71
2483.52	81.31	-10.1	71.21	74.0	-2.79



Vertical, AVG Detector:



Frequency (MHz)	AV Reading (dBuV)	Factor (dB/m)	AV Level (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)
2390.01	57.21	-12.2	45.01	54.0	-8.99
2500	44.05	-10.1	43.95	54.0	-10.05

7.3.5 Conducted Spurious Emission Test

Test Requirement: FCC Part15 247(c)

Test date: March 30, 2011

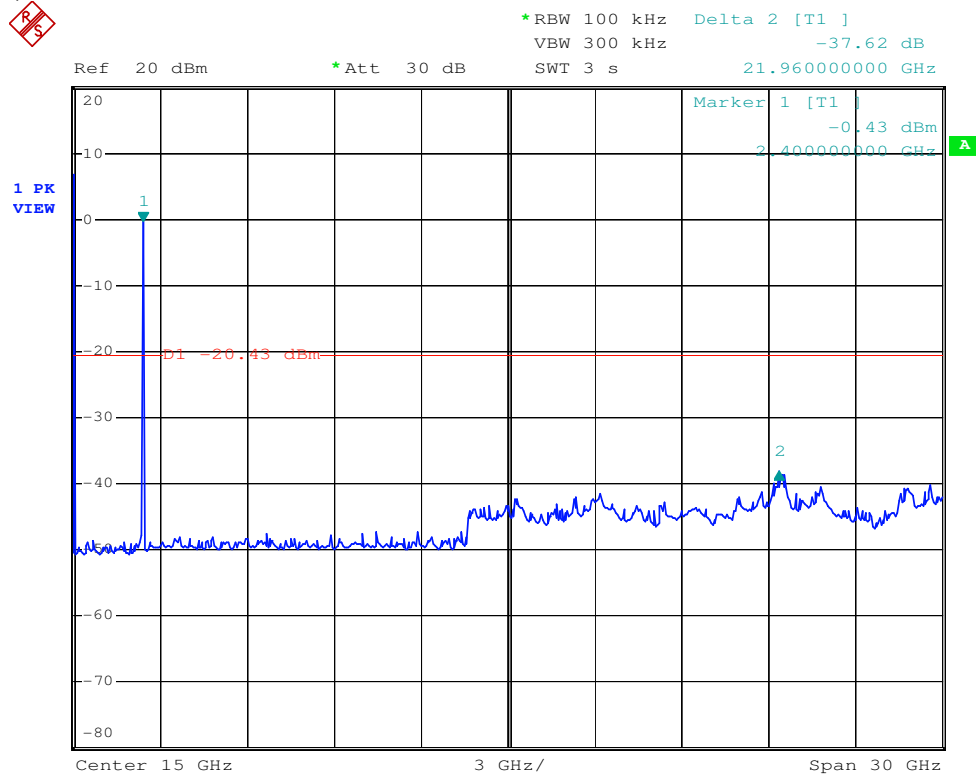
Standard Applicable: According to section 15.247(c),in any 100KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating,the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power,In addition,radiated emissions which fall in the restricted bands,as defined in section 15.205(a),must also comply with the radiated emission limits specified in 15.209(a).

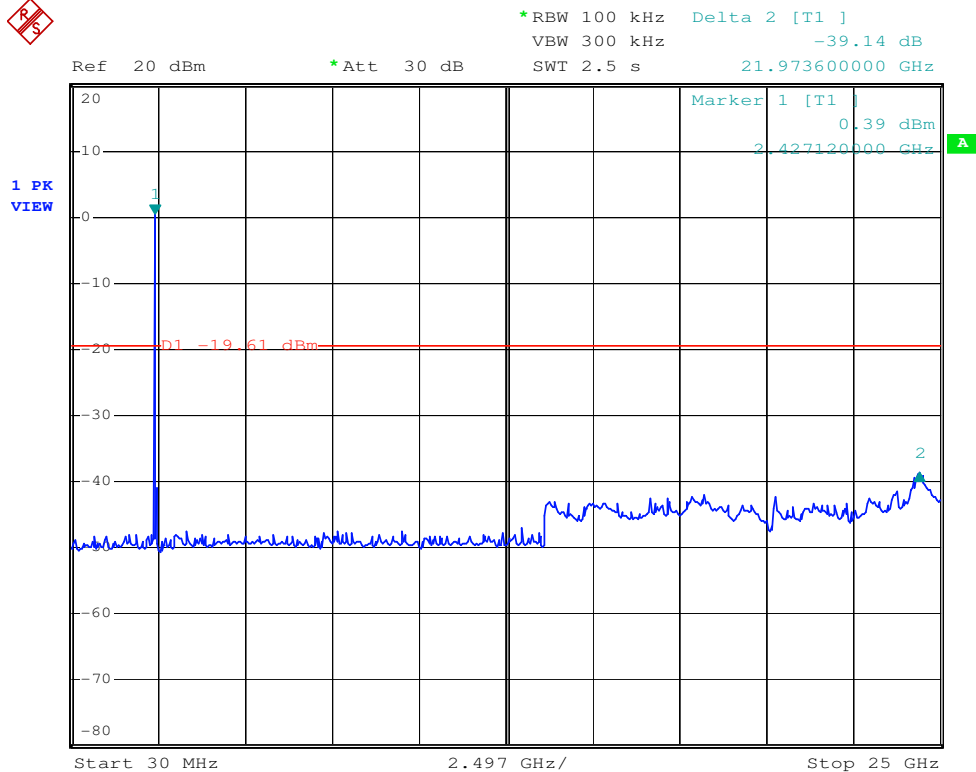
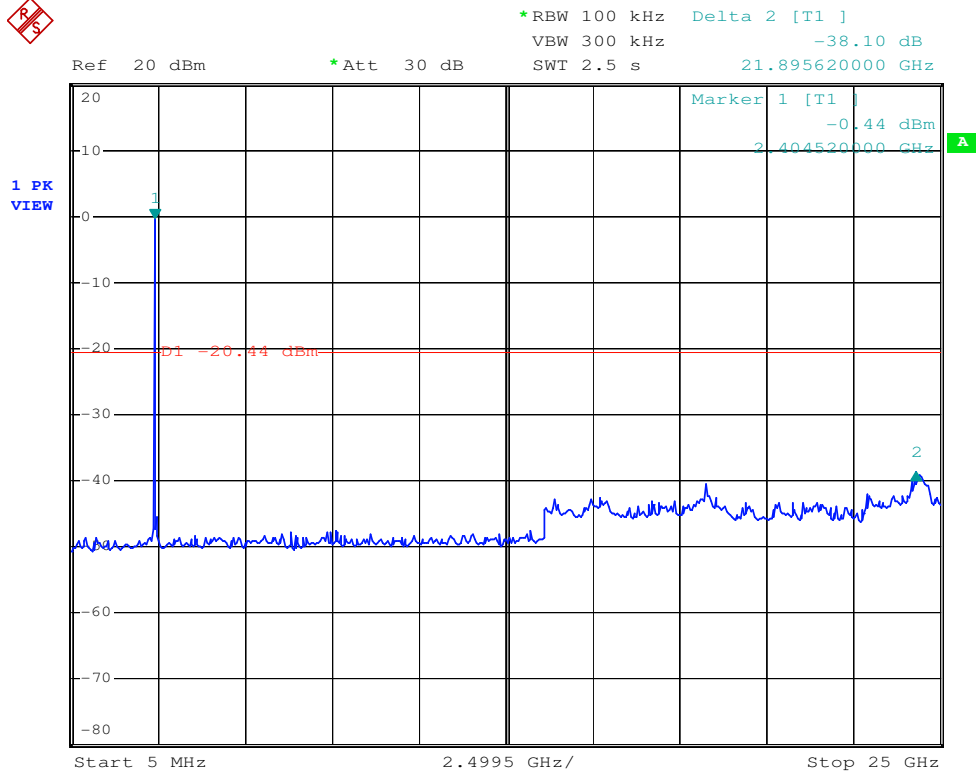
- Measurement Procedure:**
1. Place the EUT on the table and set it in transmitting mode.
 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
 3. Set center frequency of spectrum analyzer = operating frequency.
 4. Set the spectrum analyzer as RBW=100KHz VBW=300KHz, Sweep = auto
 6. Repeat above procedures until all frequency measured were complete.

Measurement Result:

Conducted spurious Emission Measurement Result

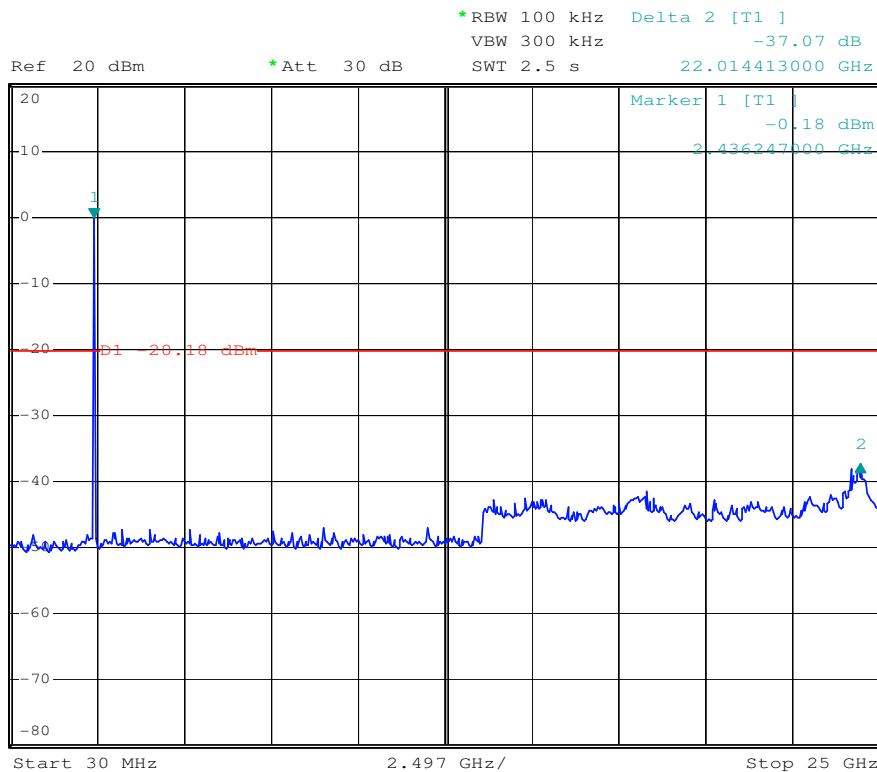
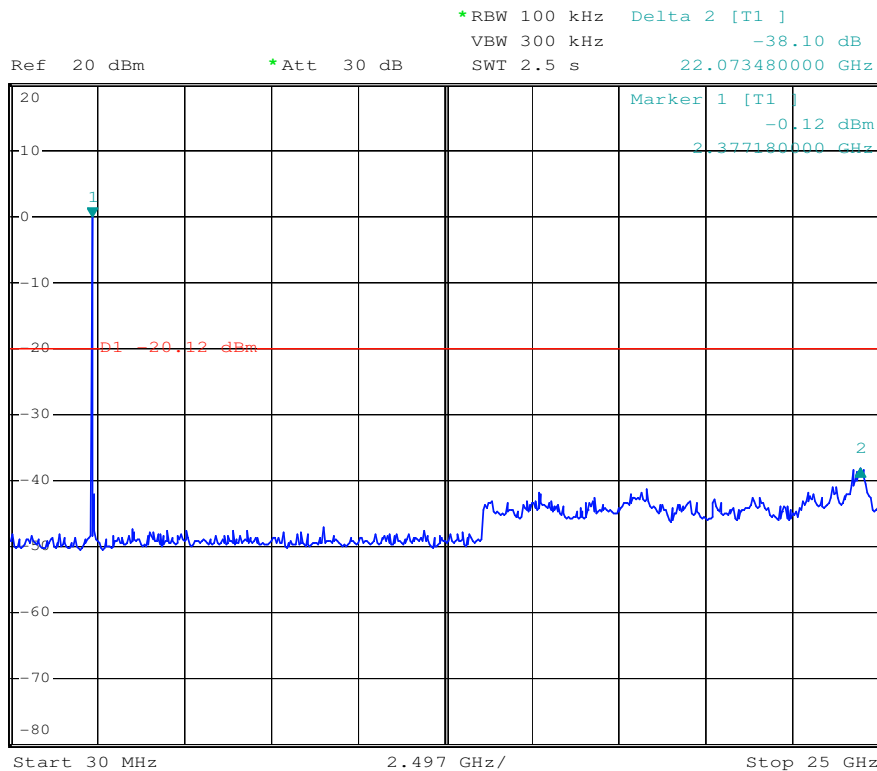
802.11b 1Mbps 30MHz-25GHz
(Chain 100)

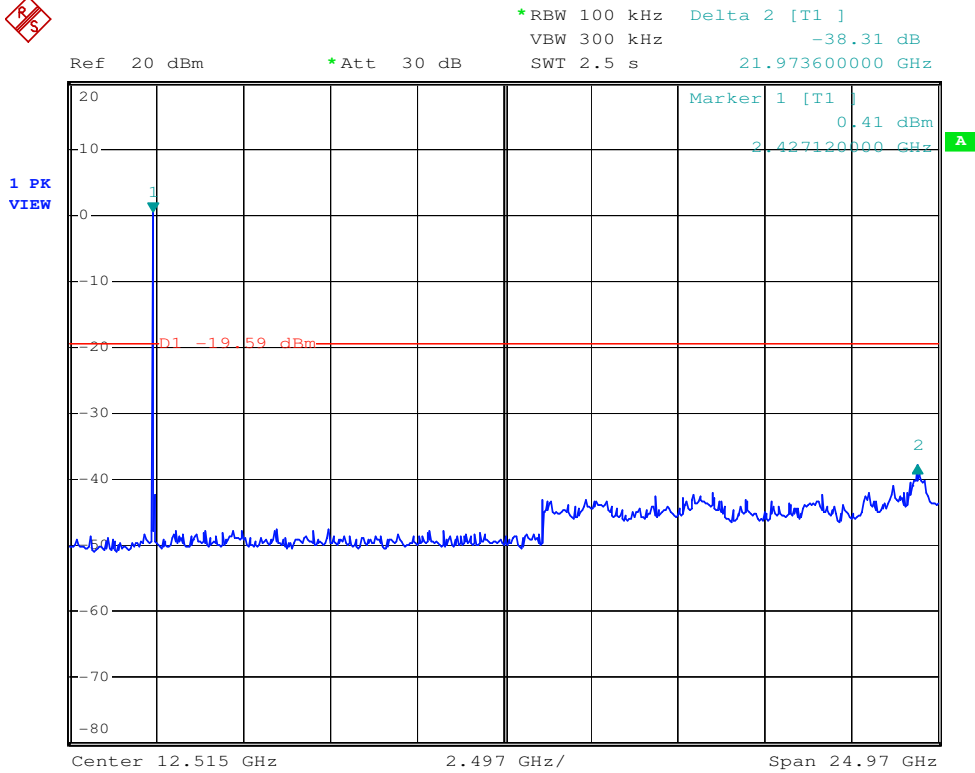




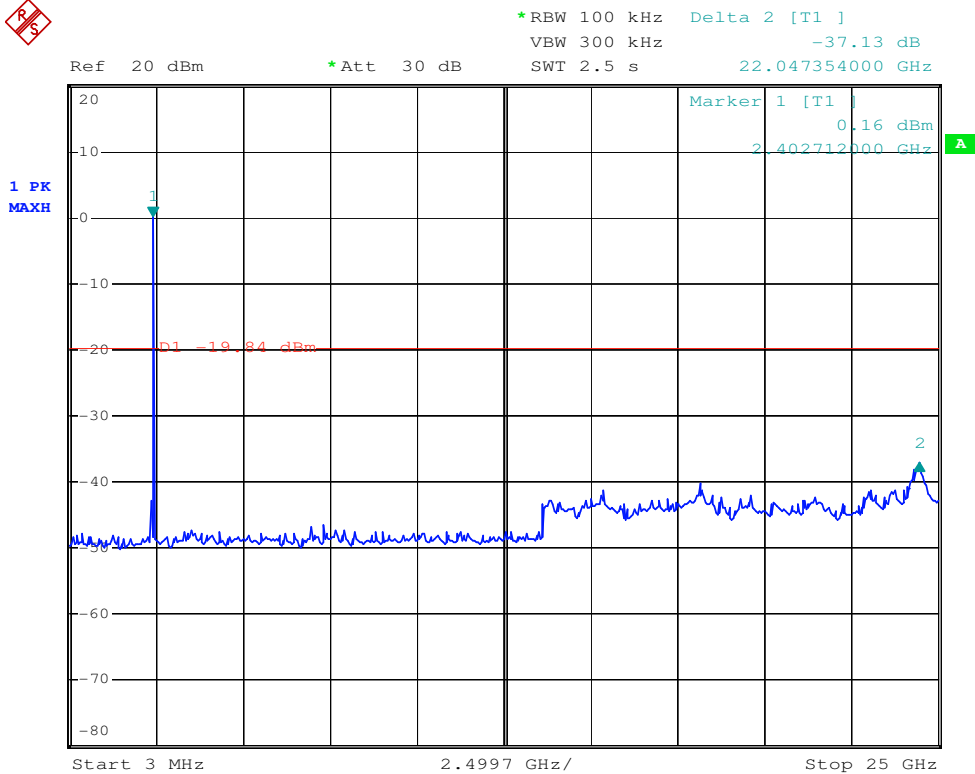


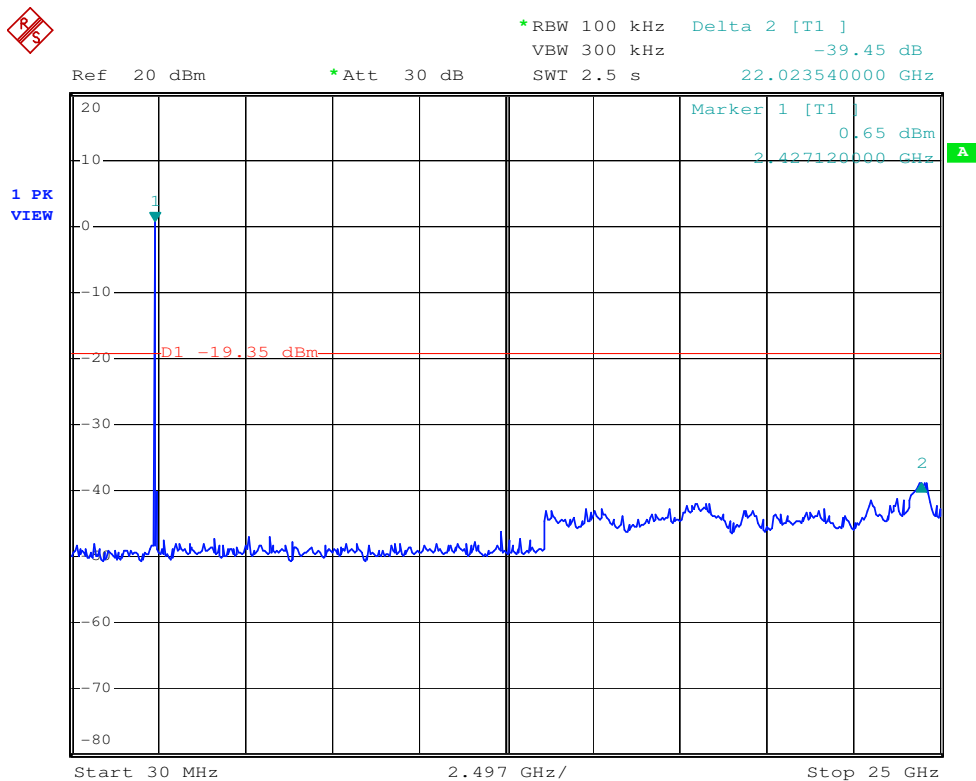
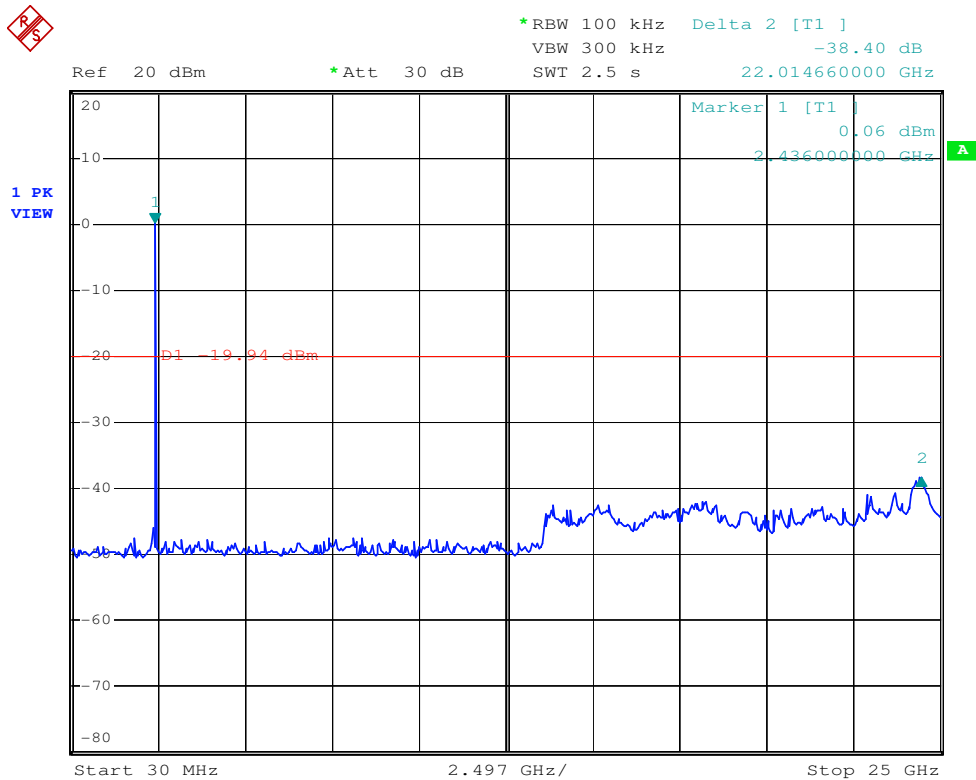
(Chain 010)





(Chain 001)

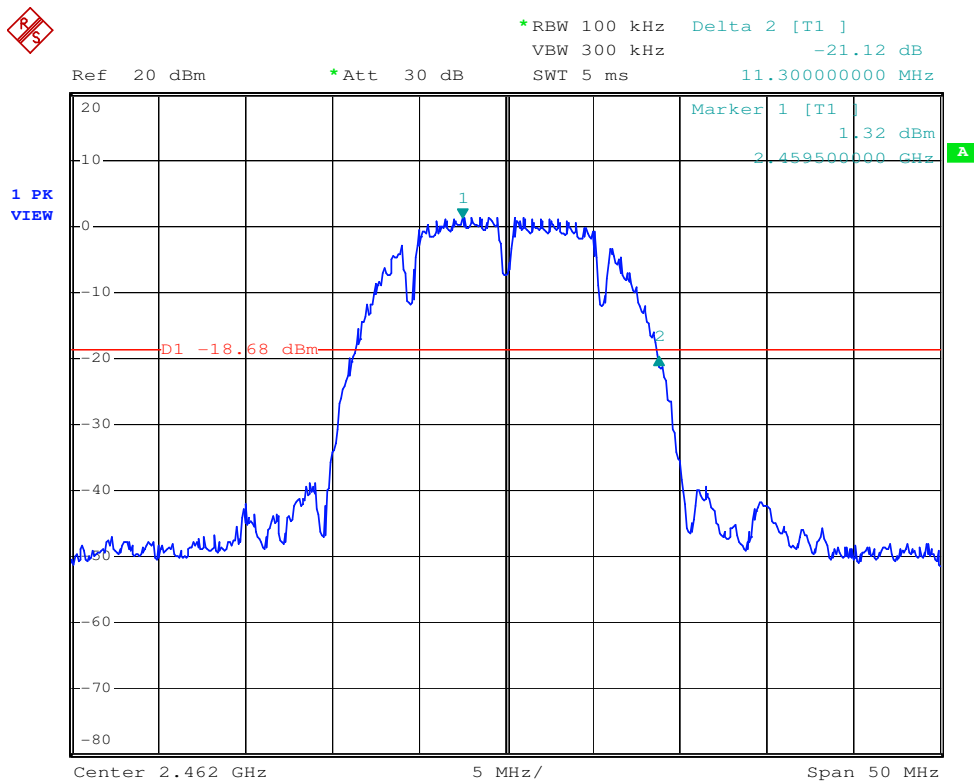
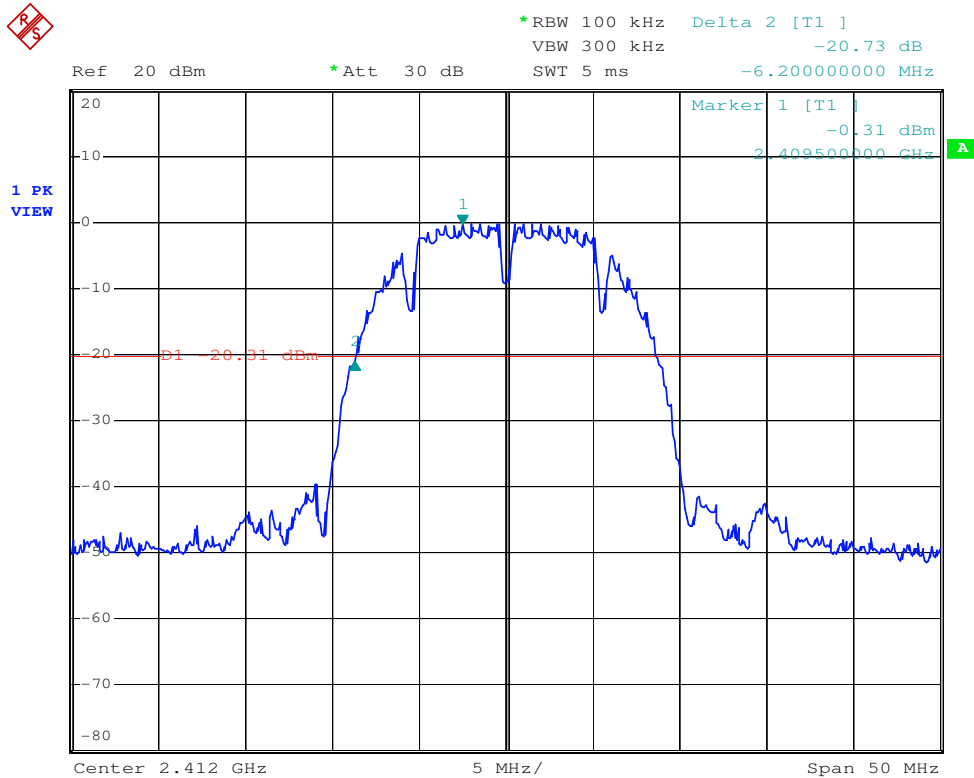




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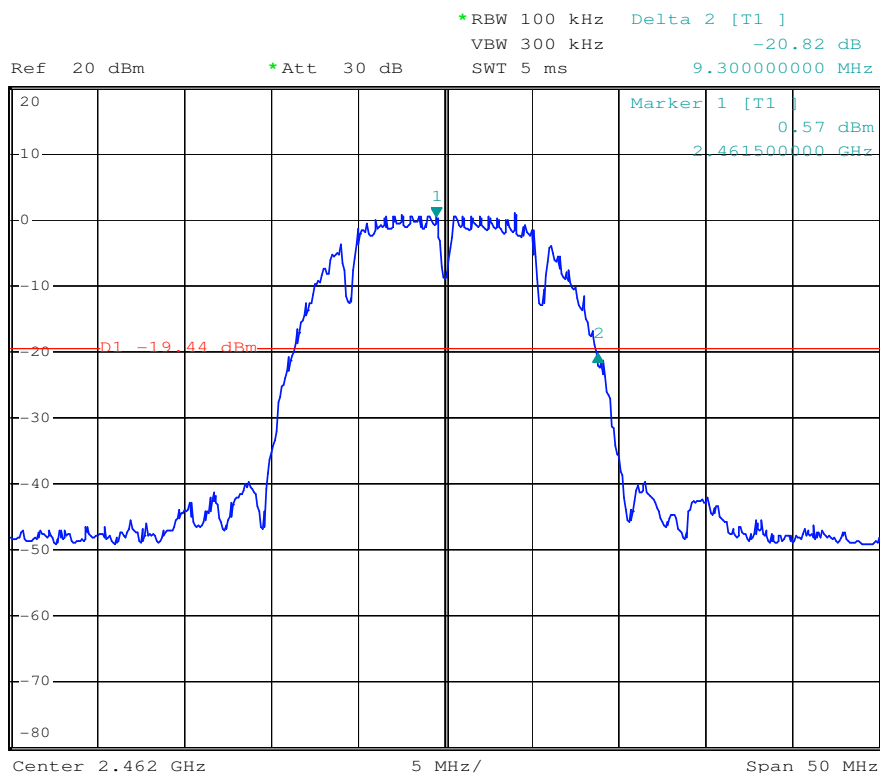
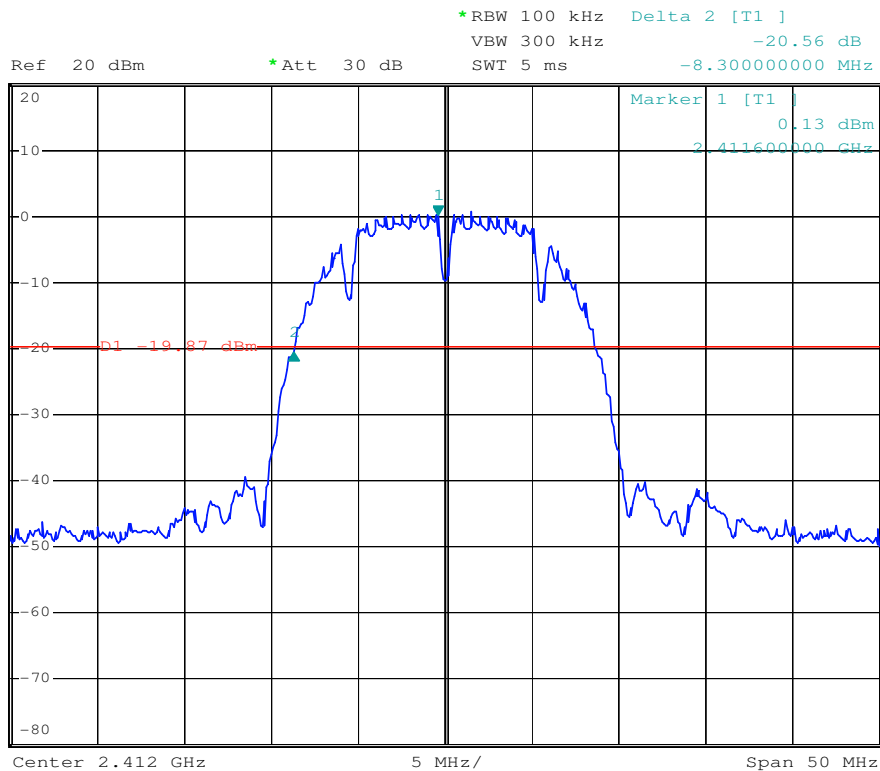


Band Edge (Conducted Mode)
(Chain 100)



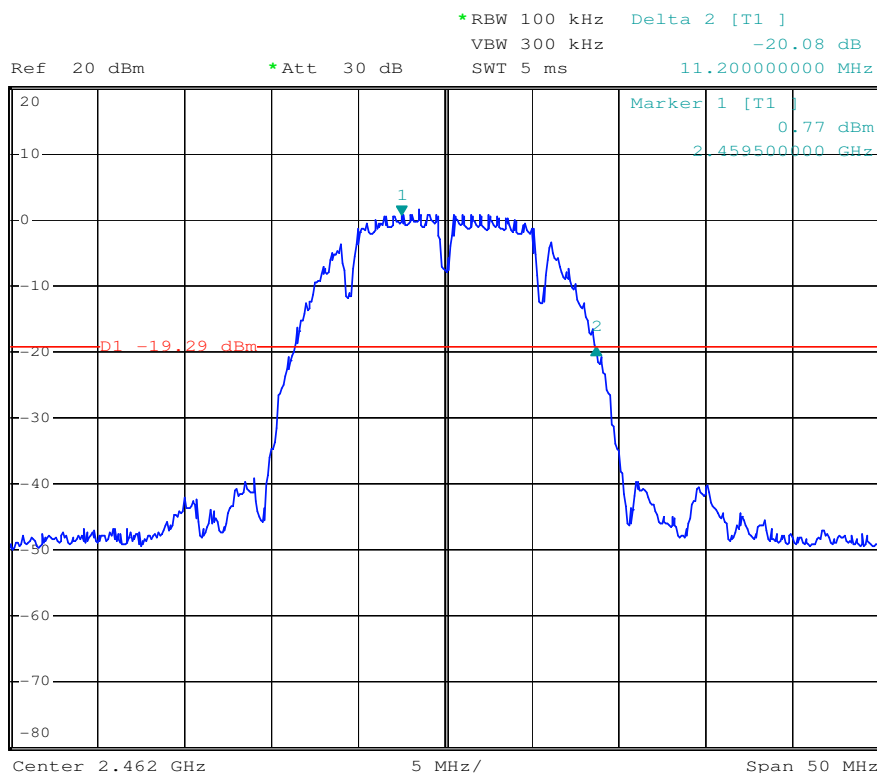
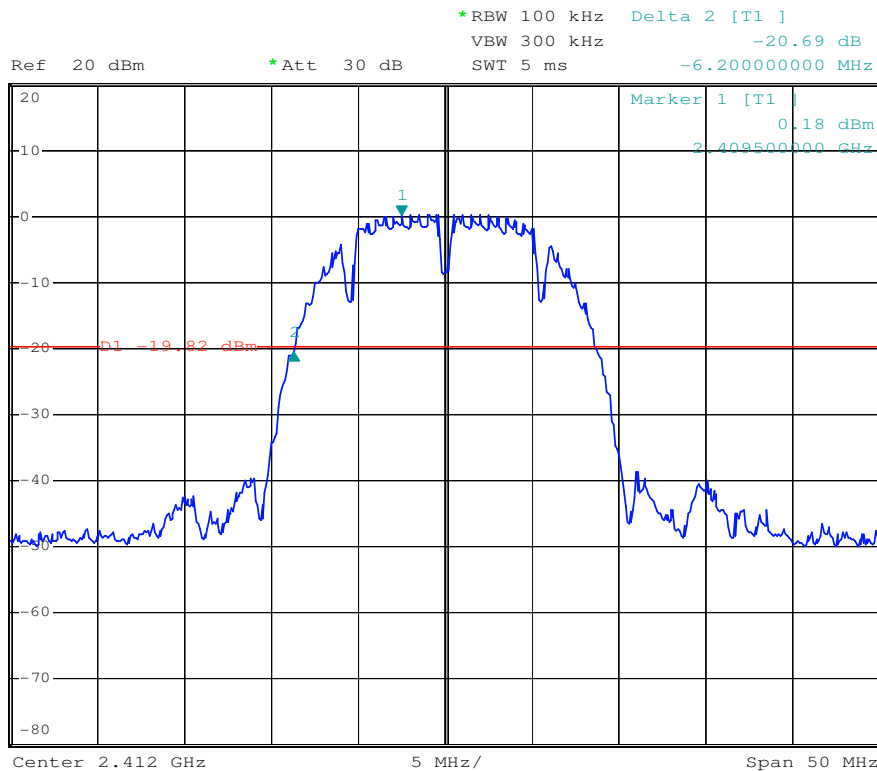


(Chain 010)



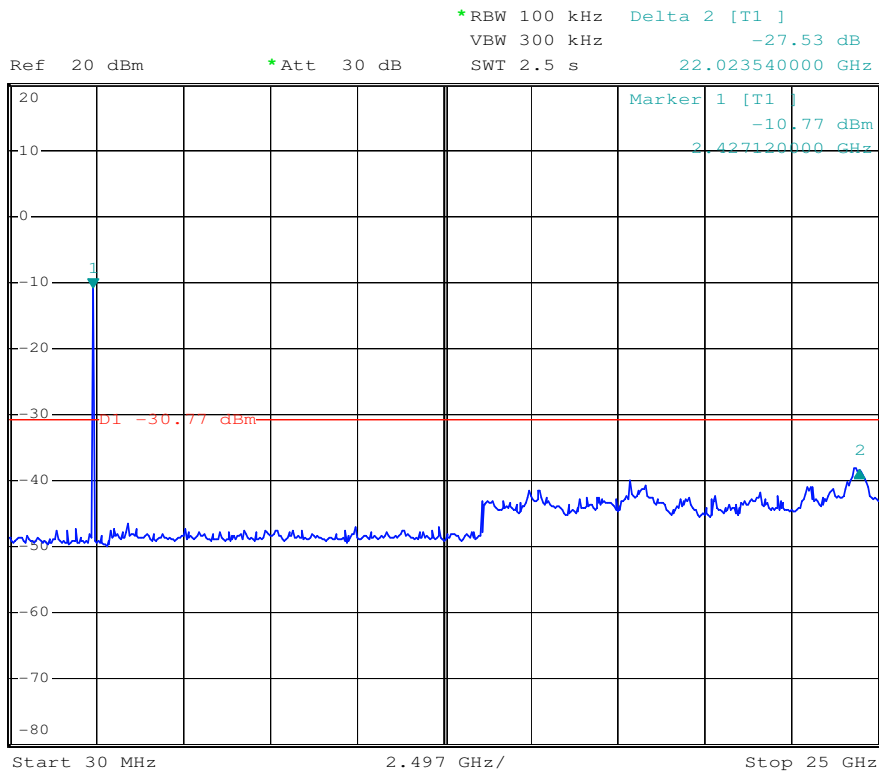
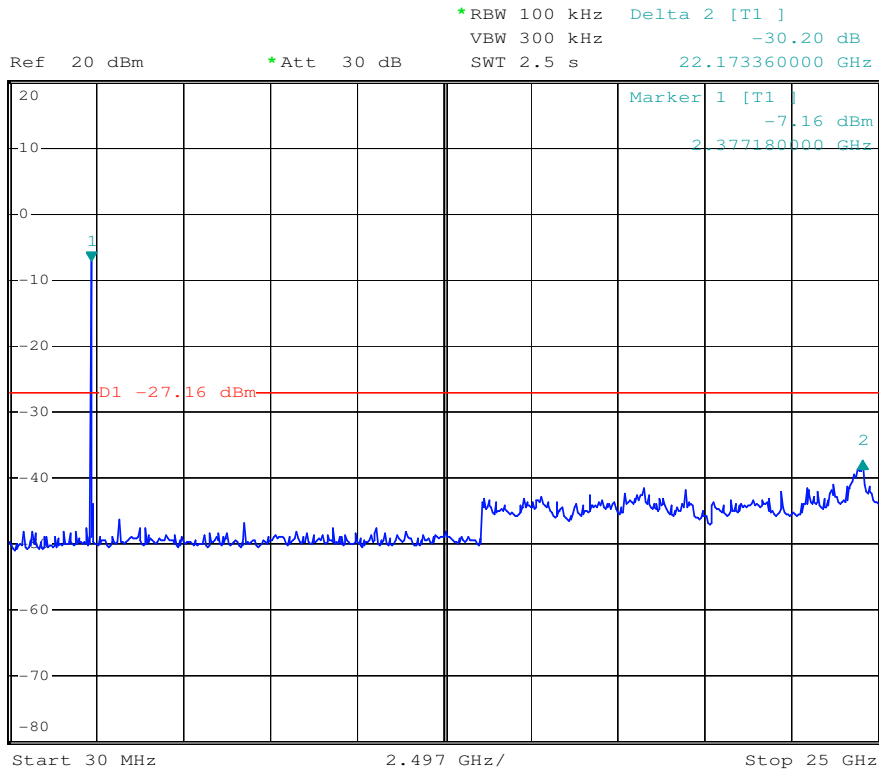


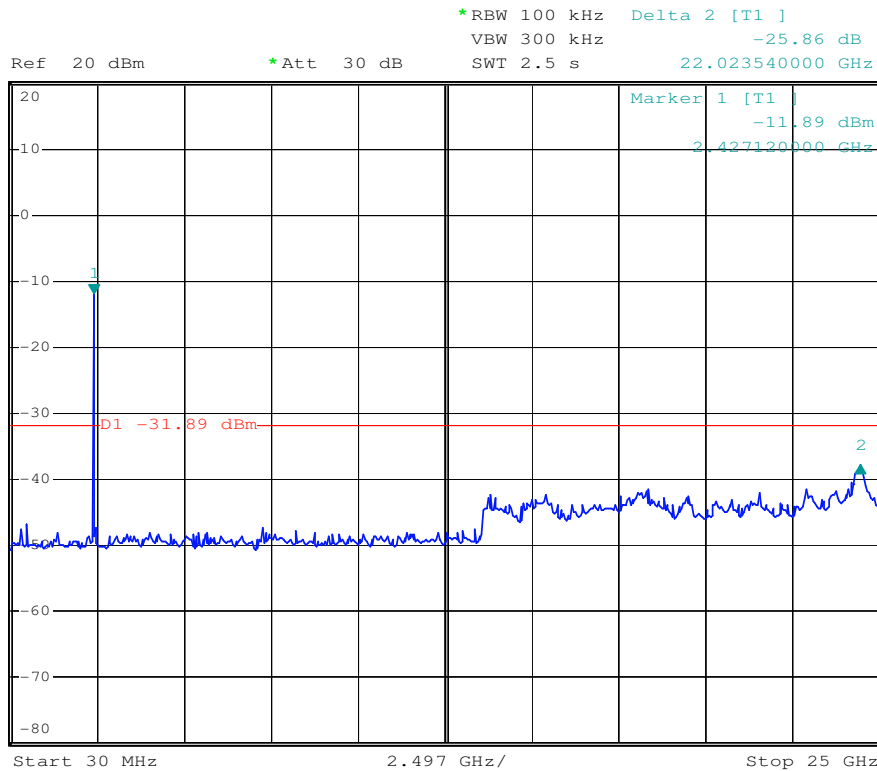
(Chain 001)



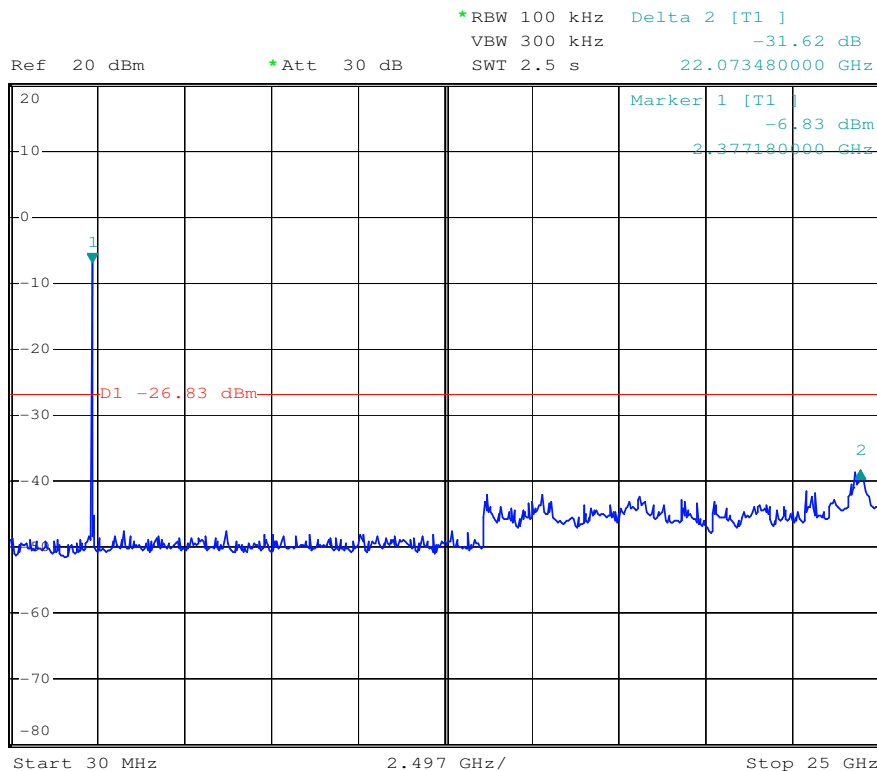


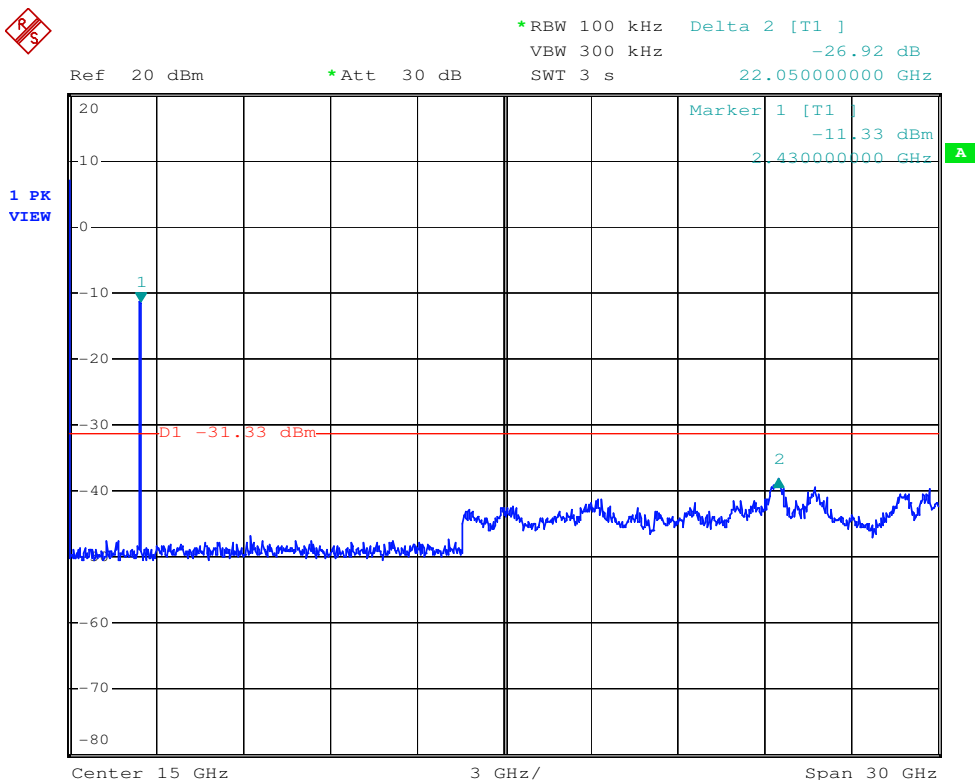
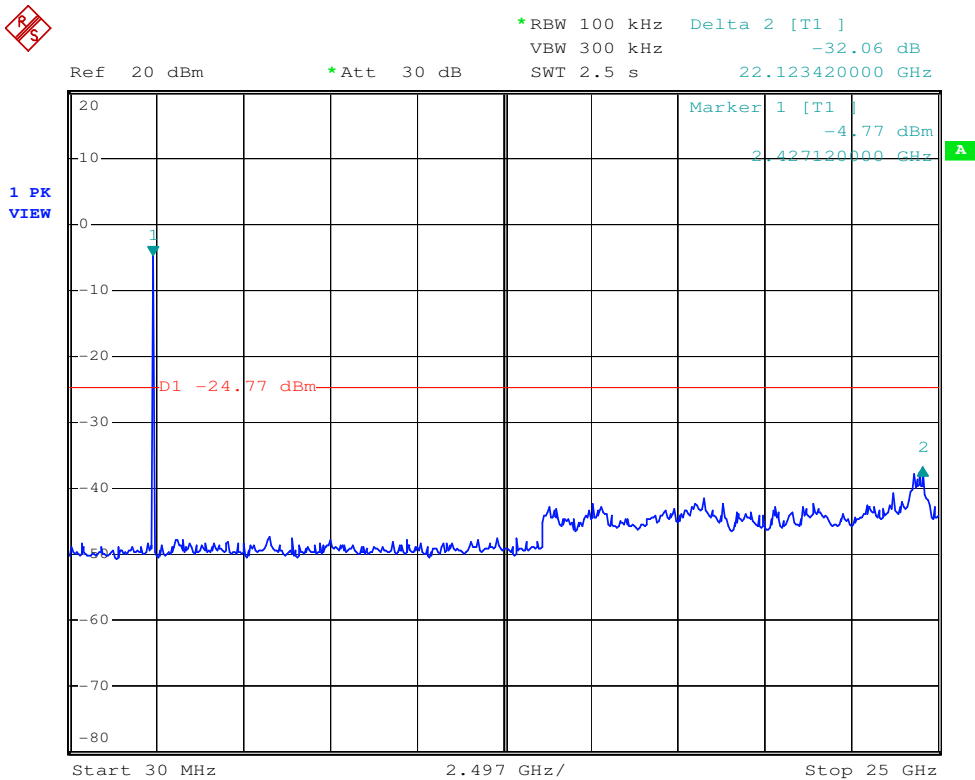
802.11g 6Mbps 30MHz-26.5GHz
(Chain 100)





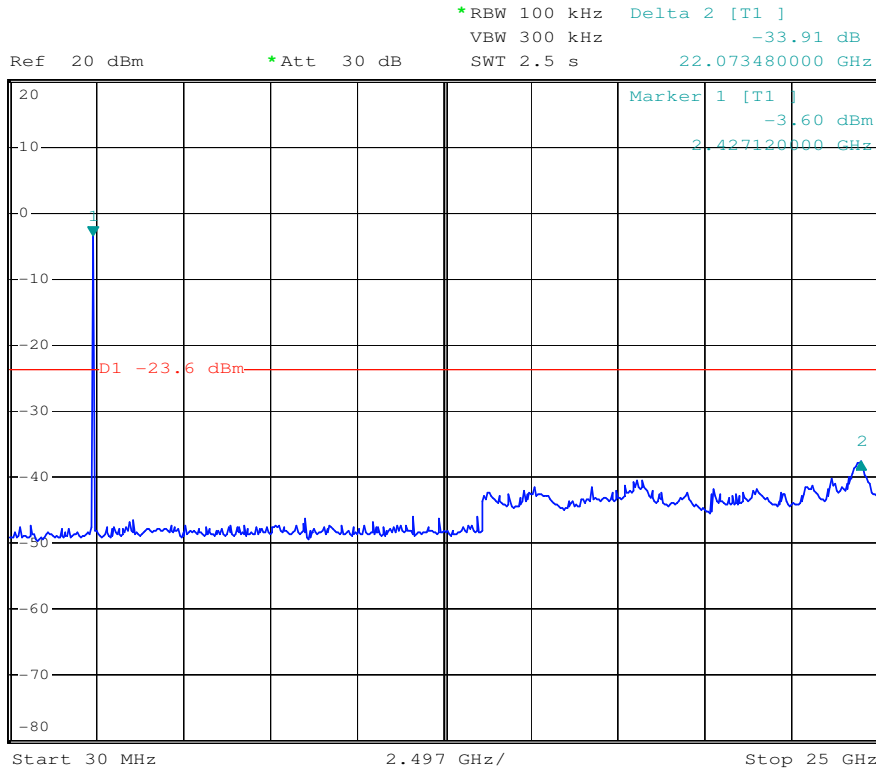
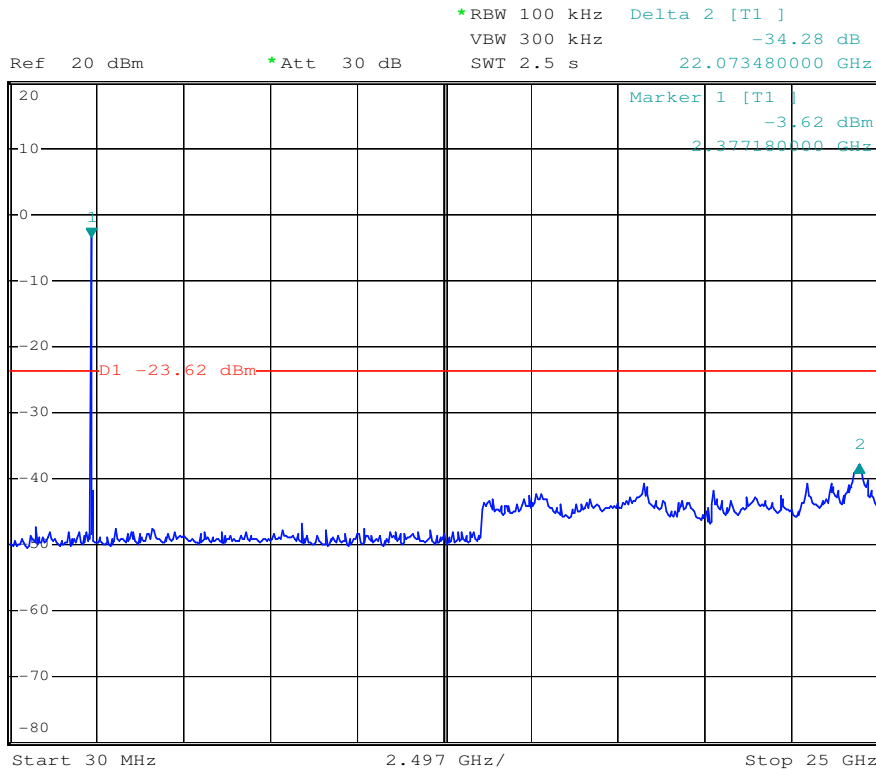
(Chain 010)

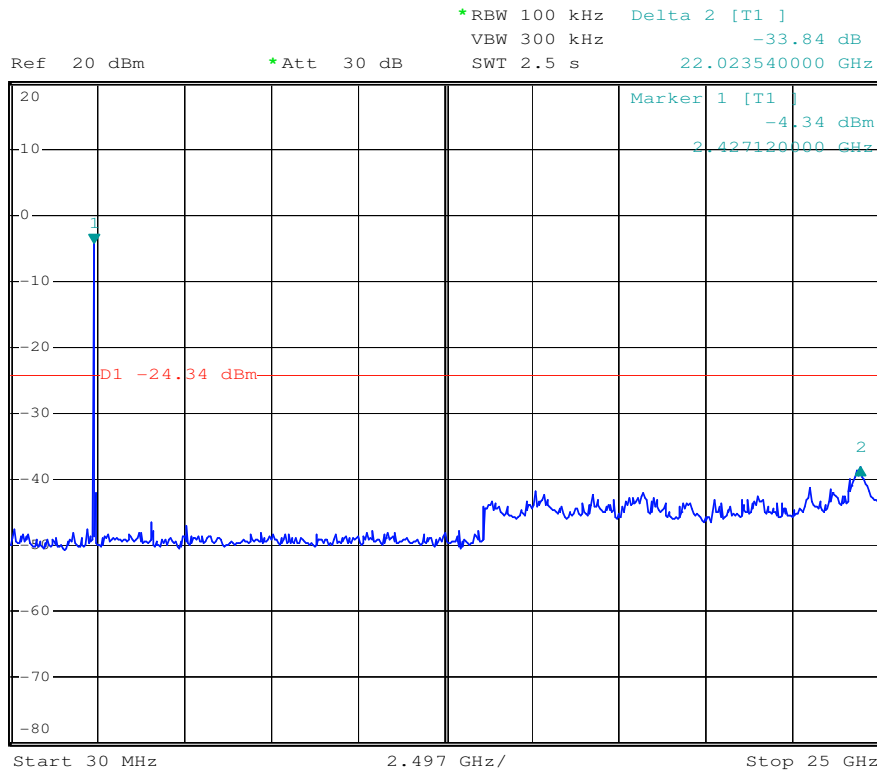




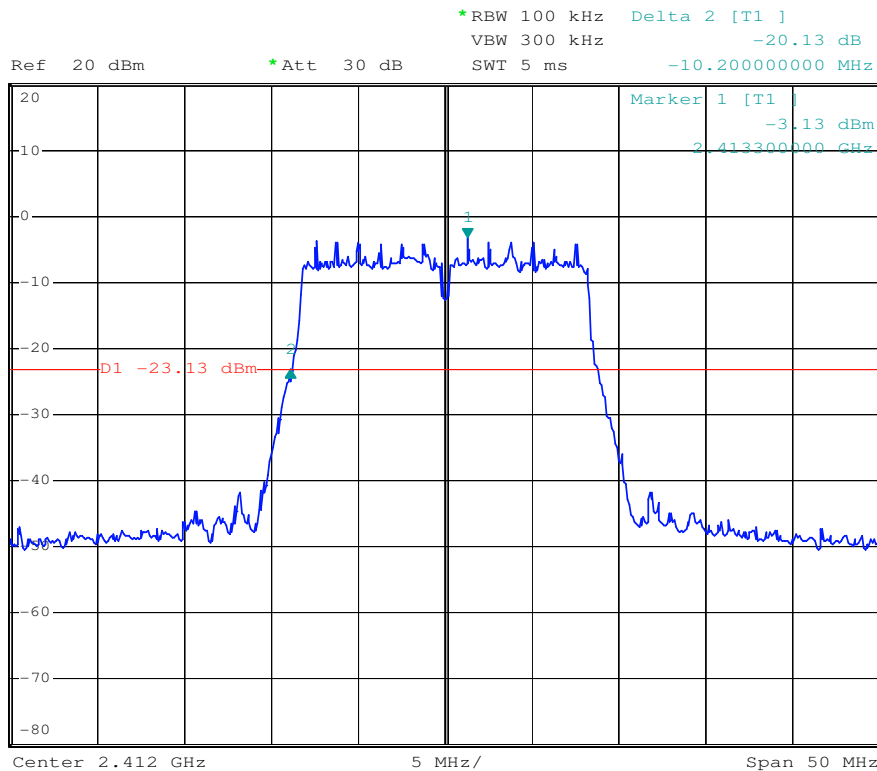


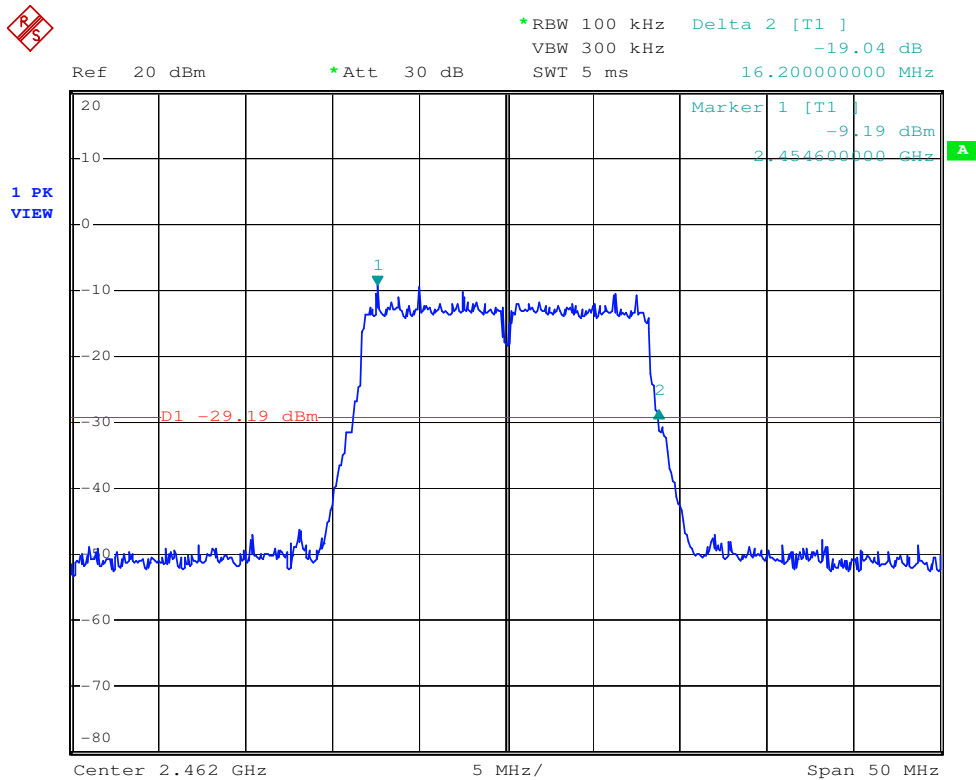
(Chain 001)



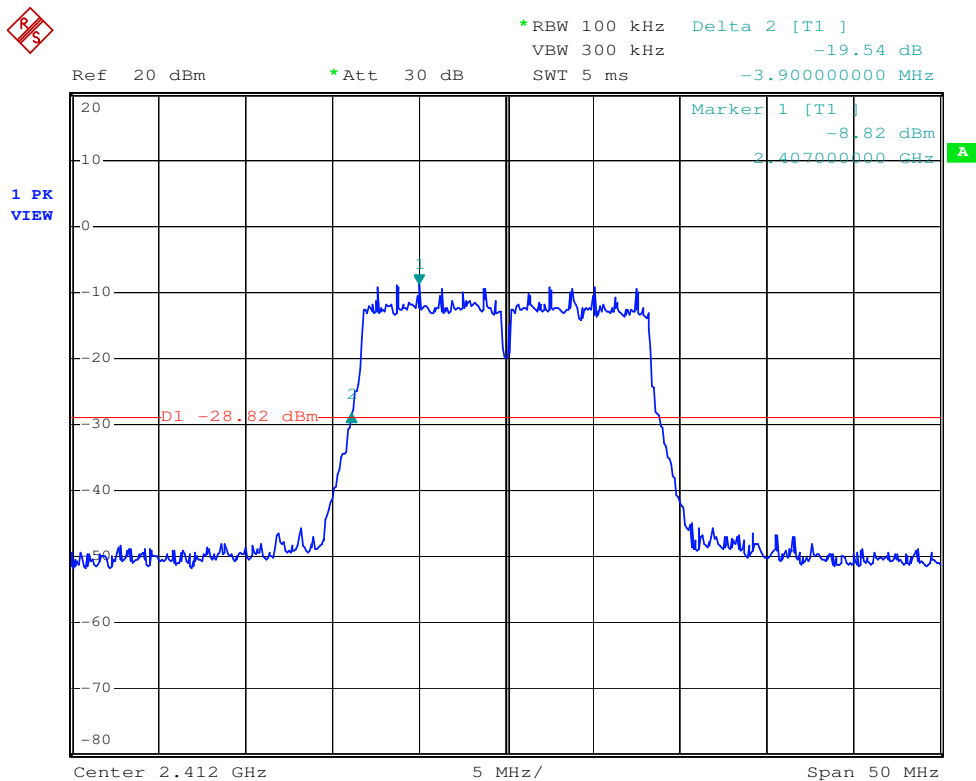


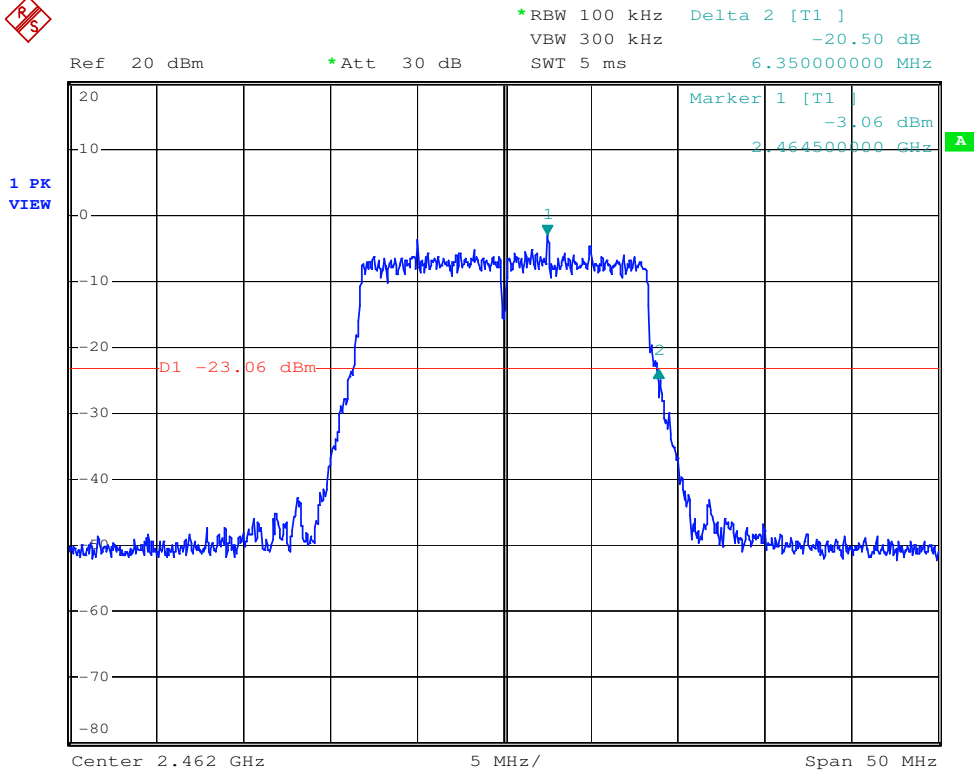
Band Edge (Conducted Mode)
(Chain 100)



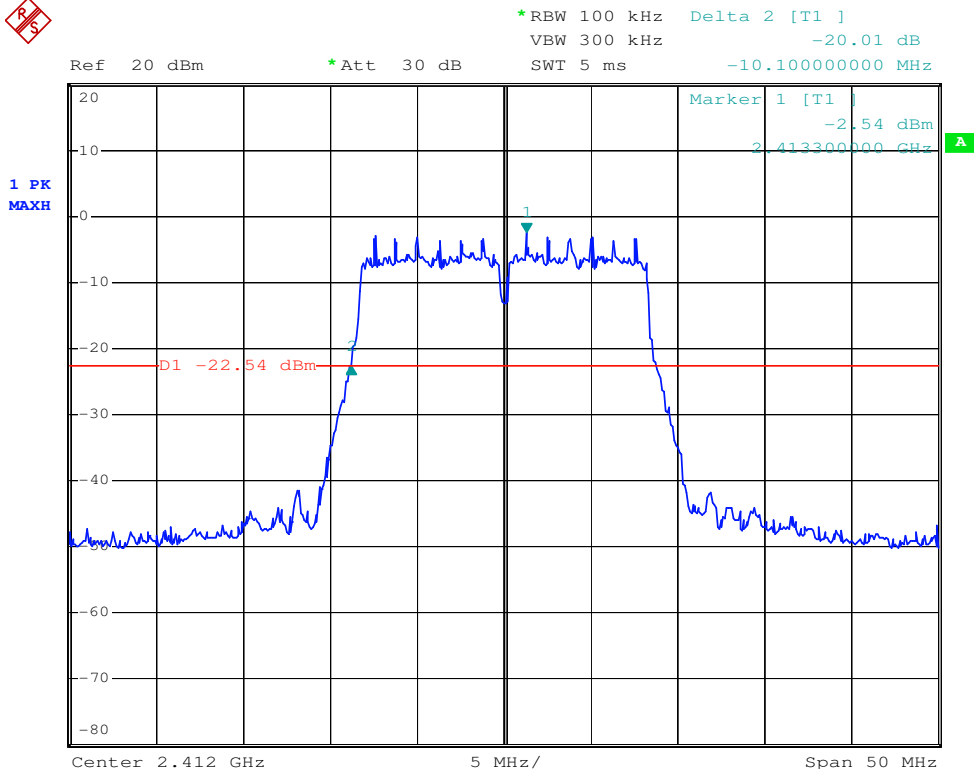


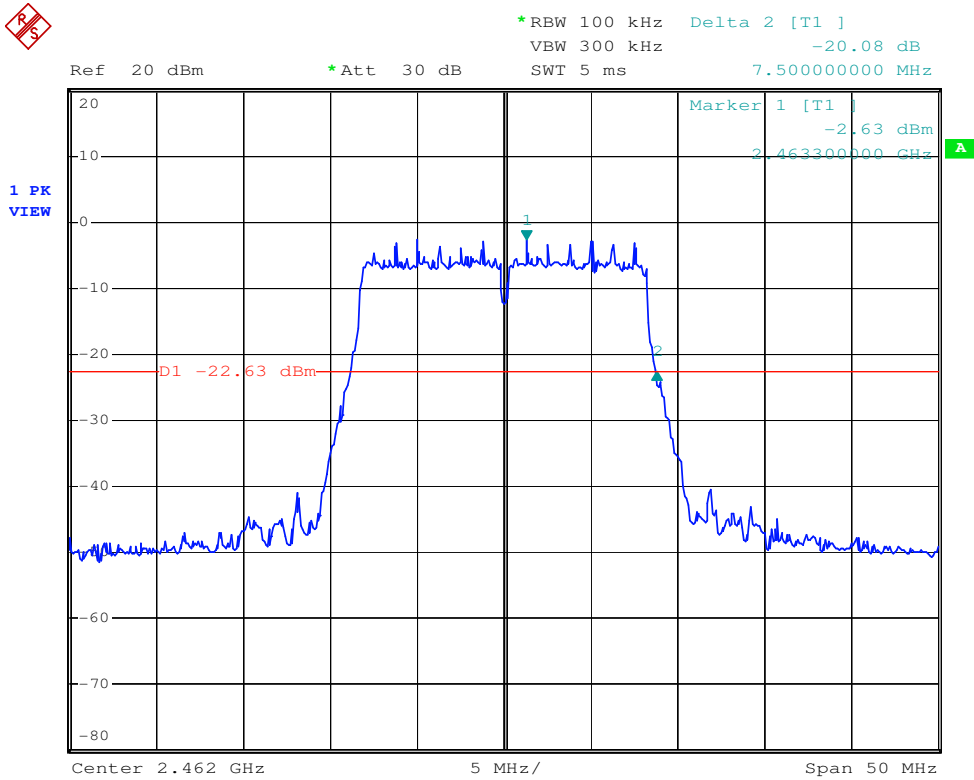
(Chain 010)



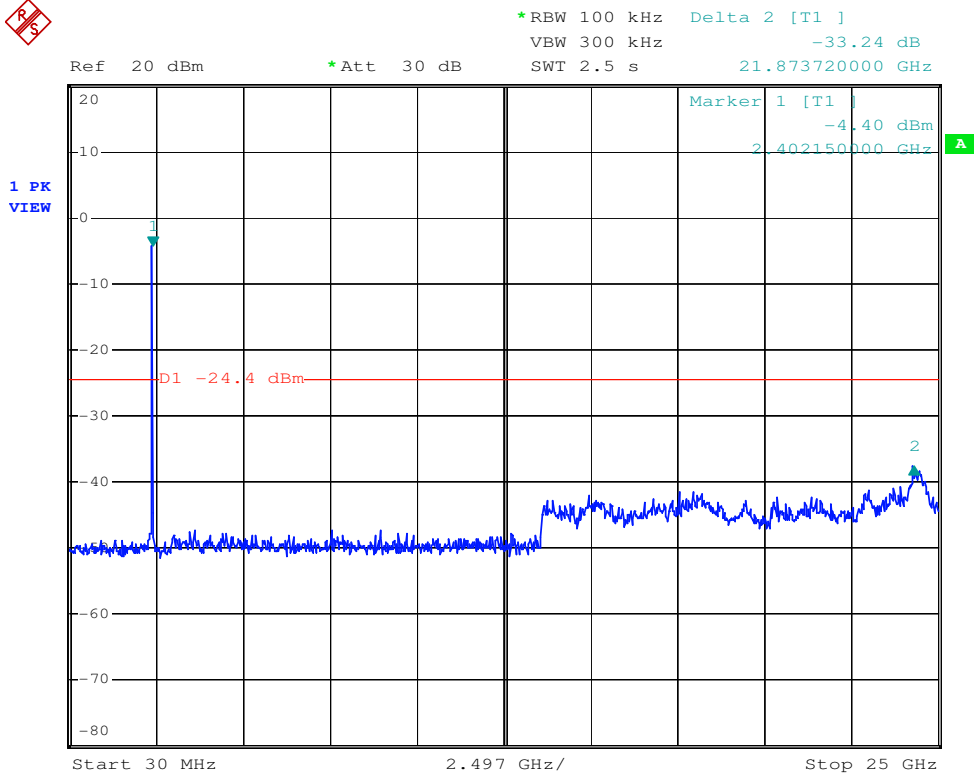


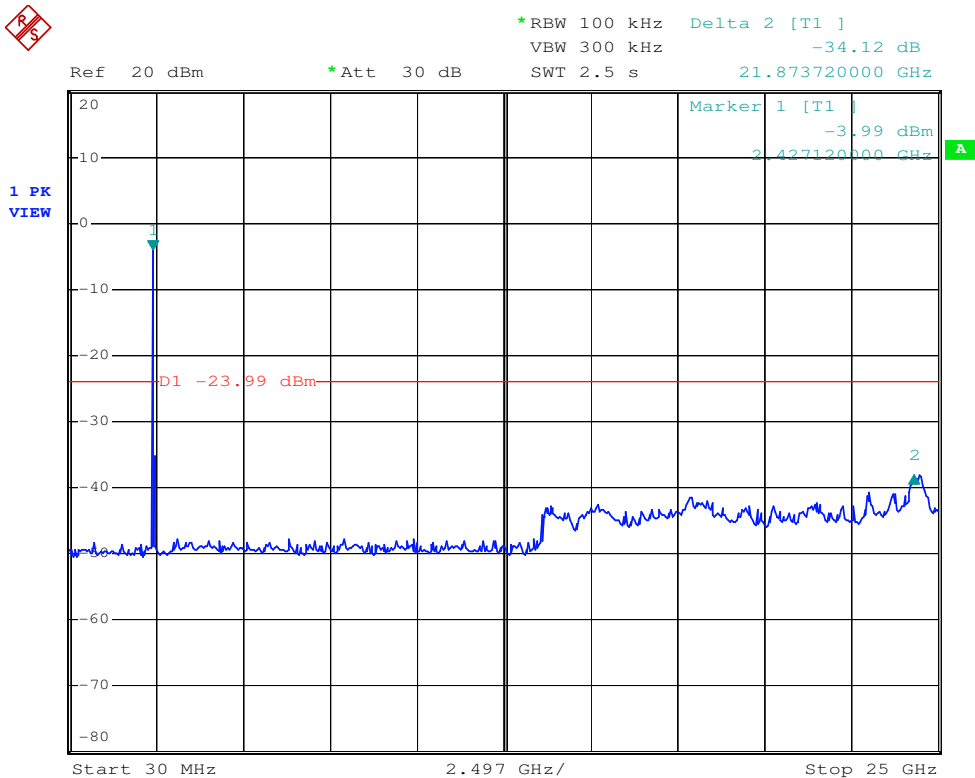
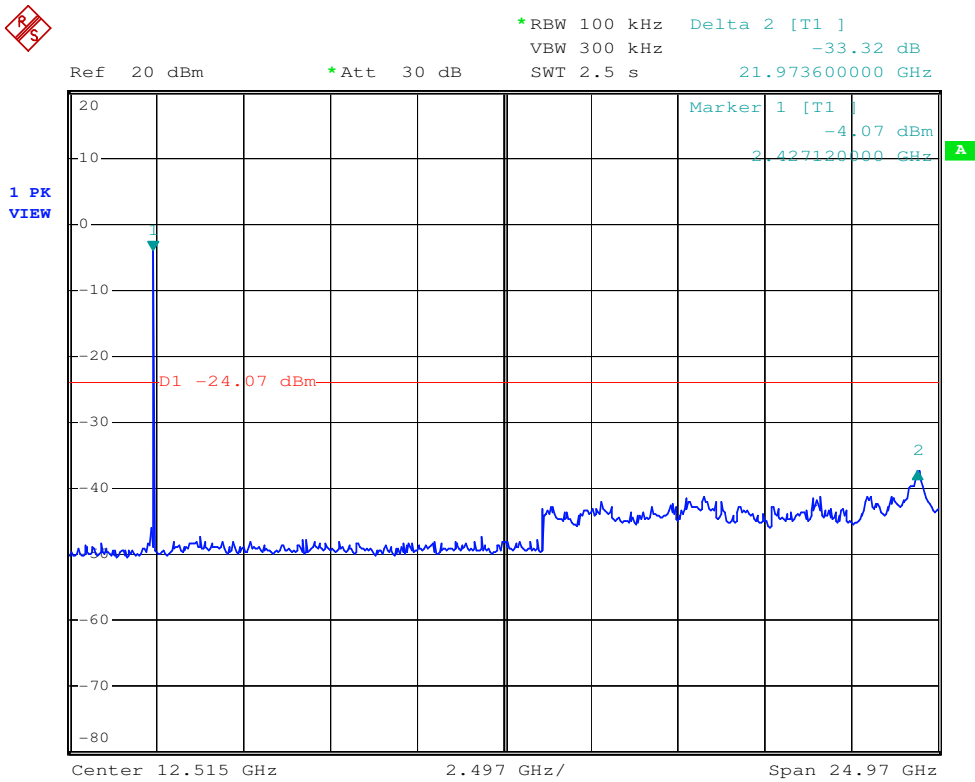
(Chain 001)





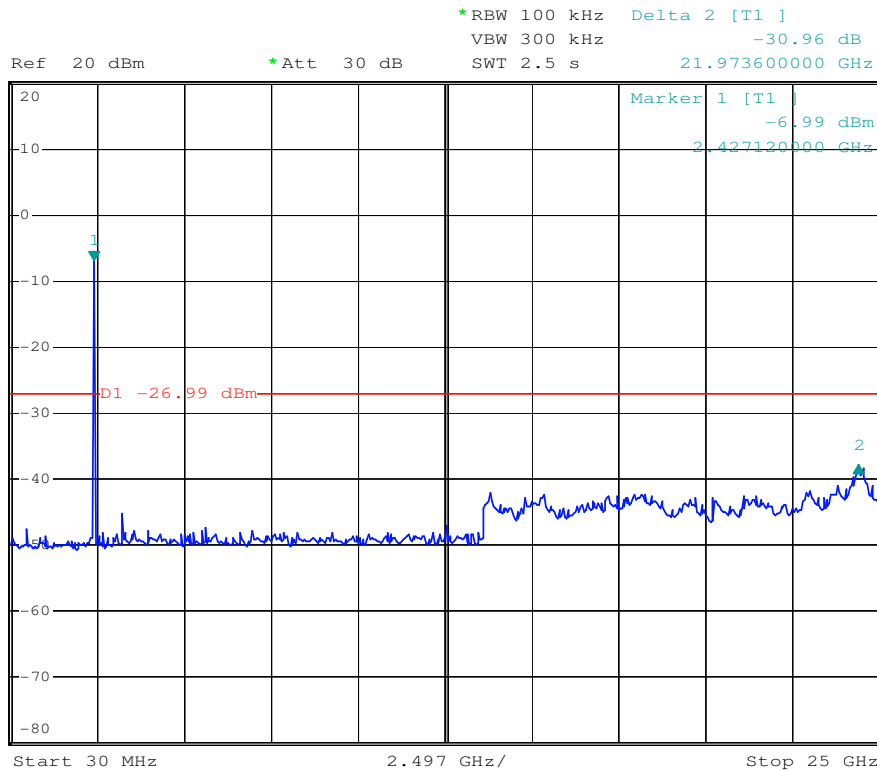
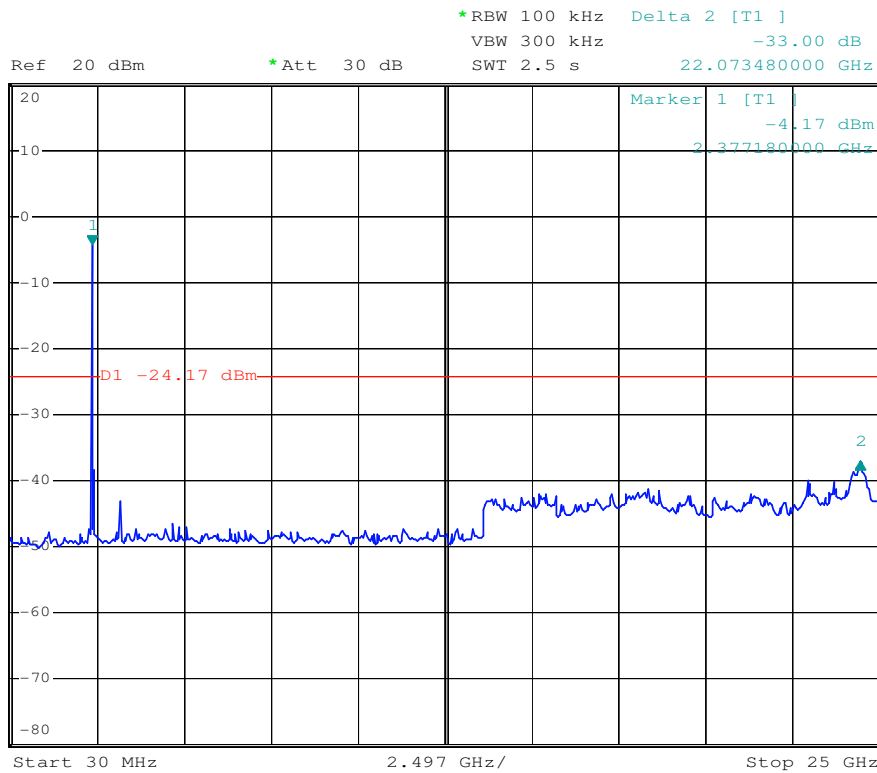
802.11n 2.4G Band (20MHz BW) 6.5Mbps 30MHz-25GHz
(Chain 100)

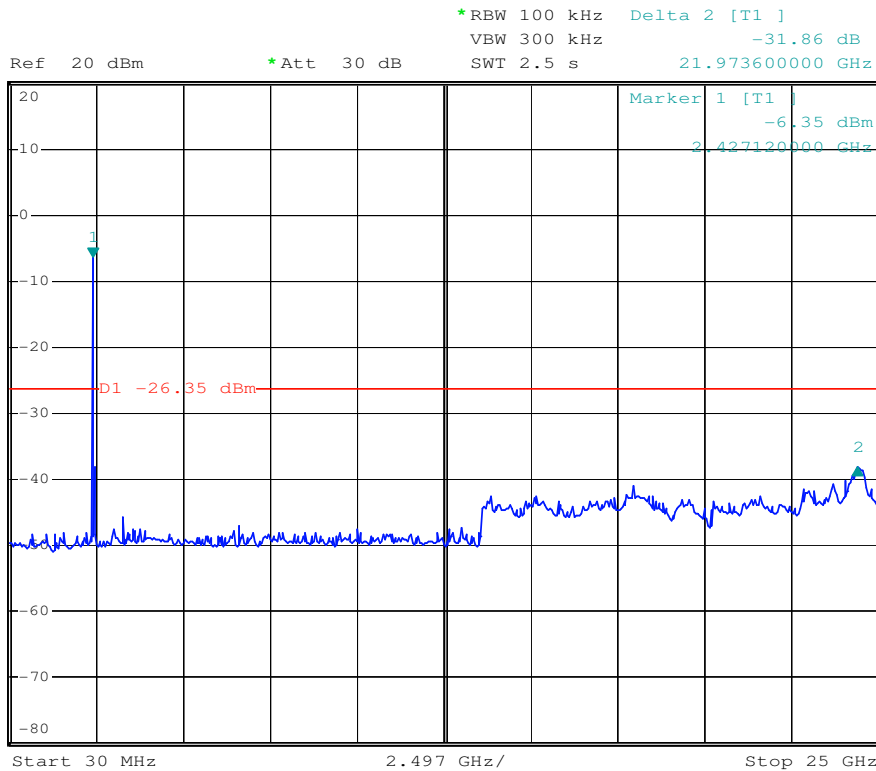




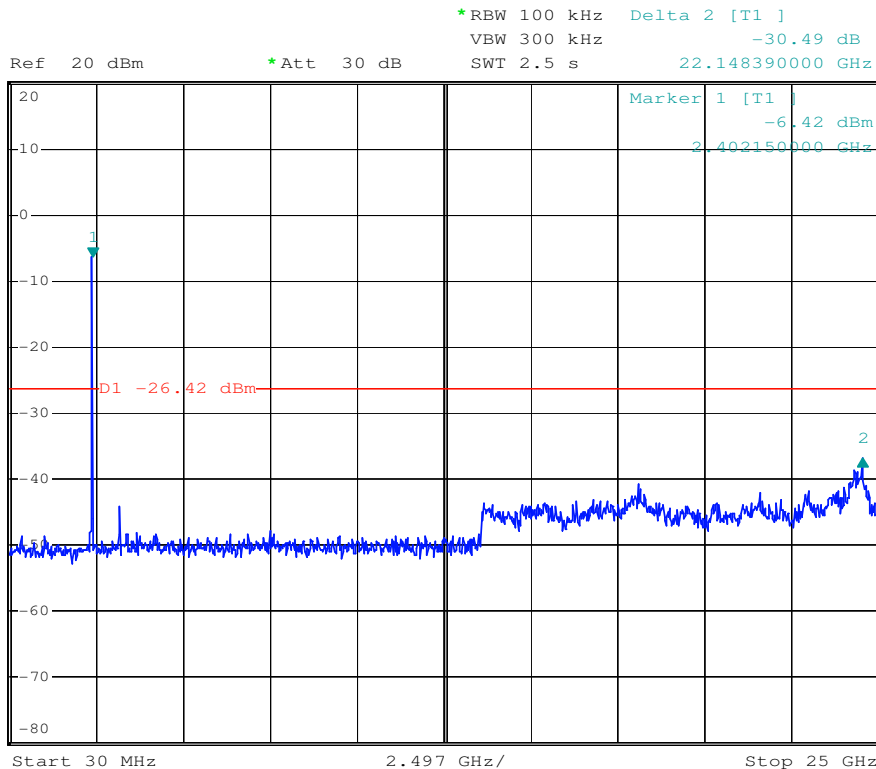


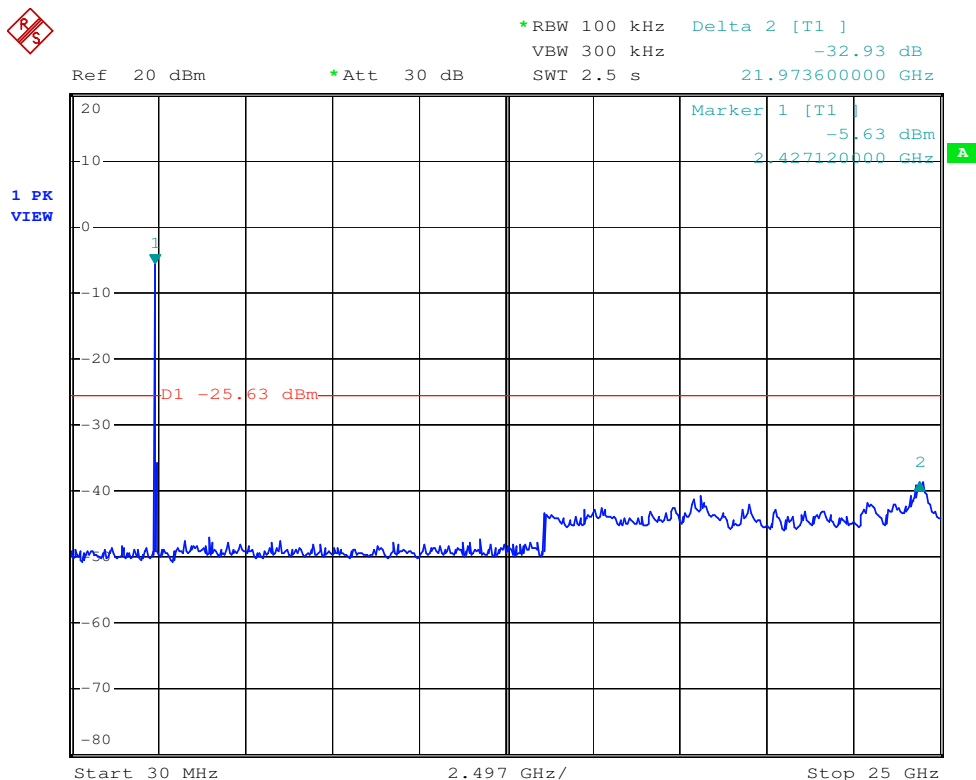
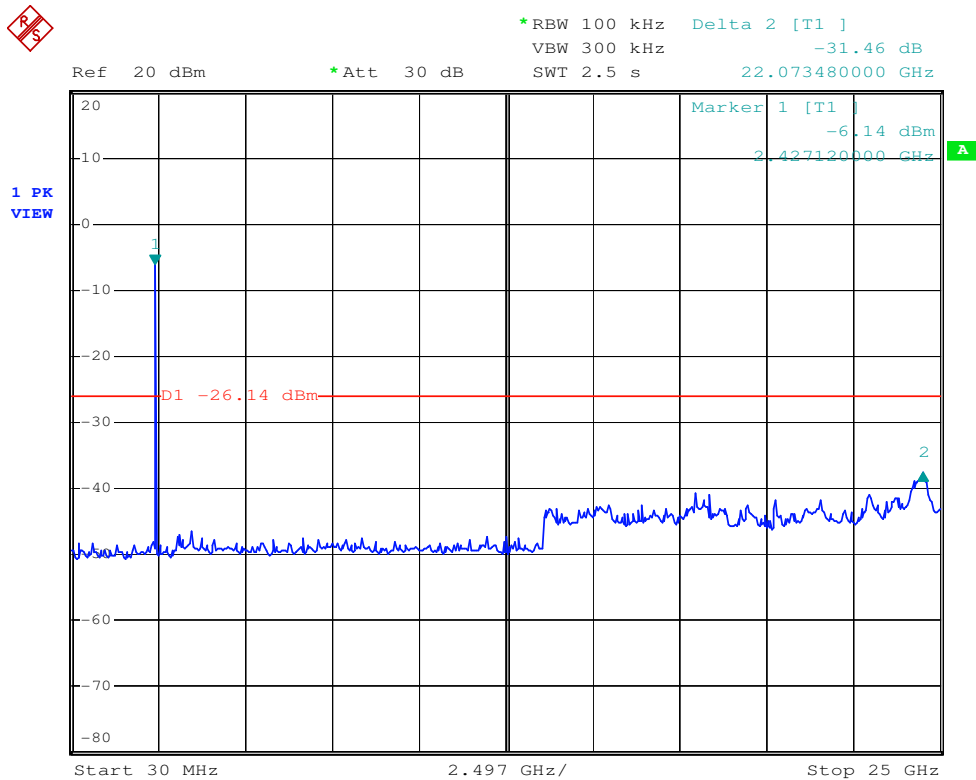
(Chain 010)



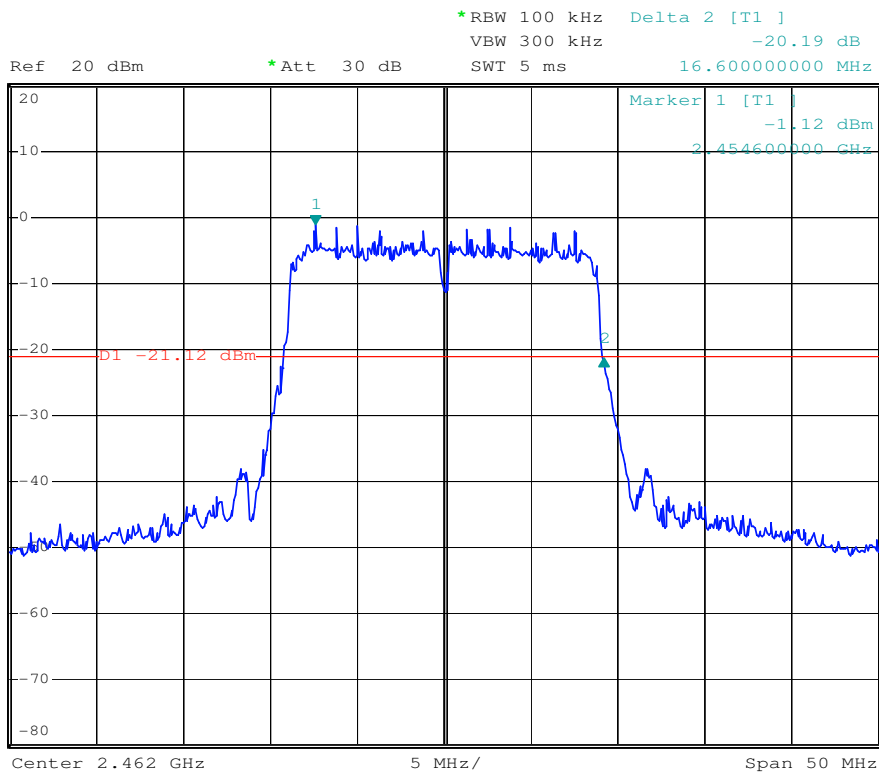
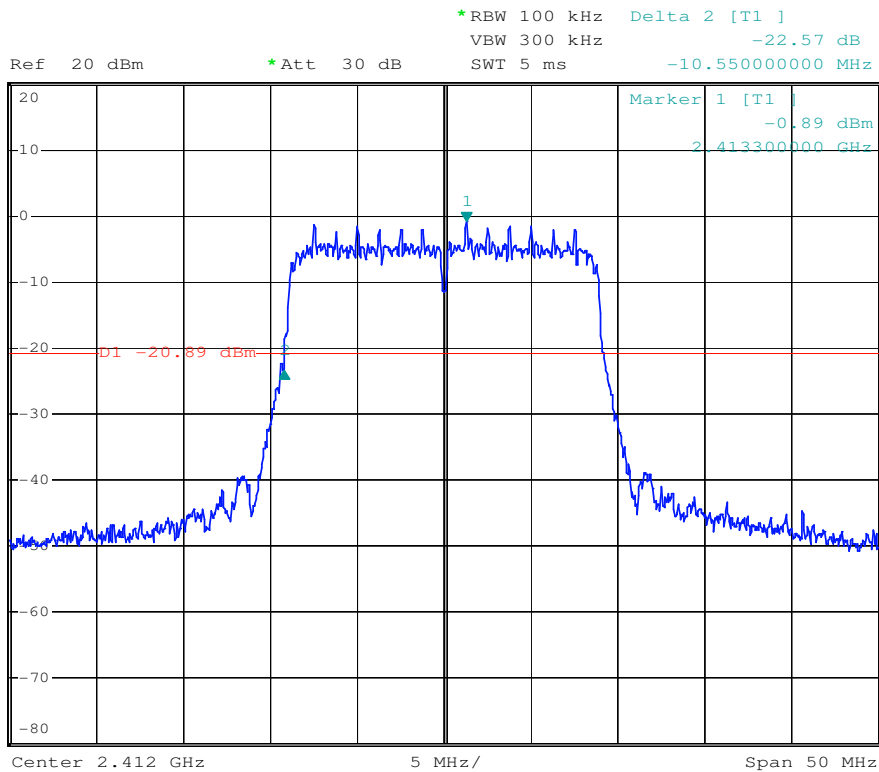


(Chain 001)



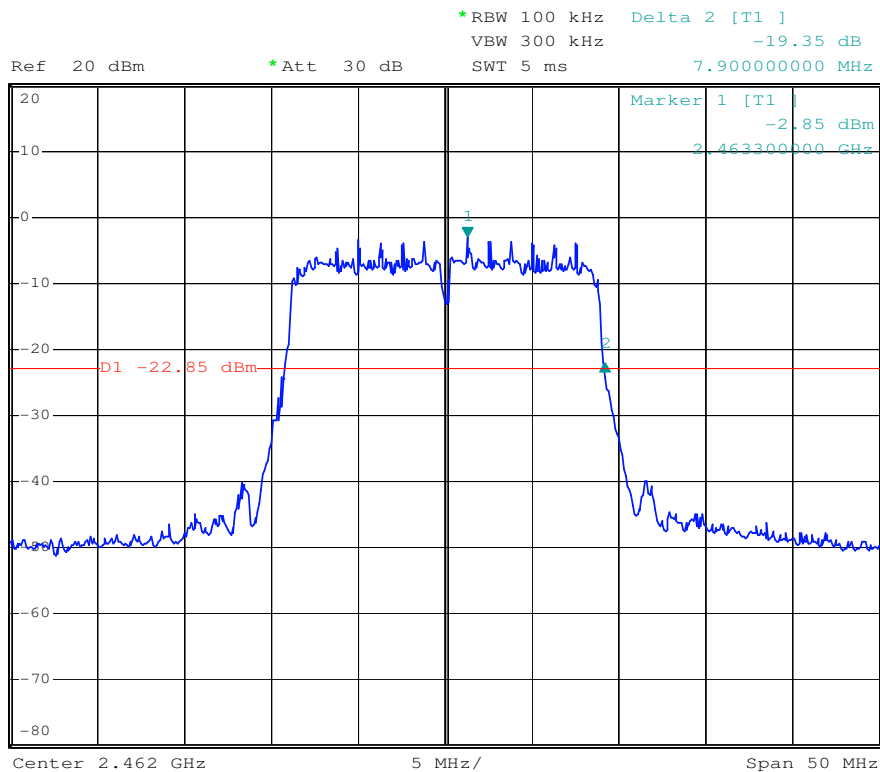
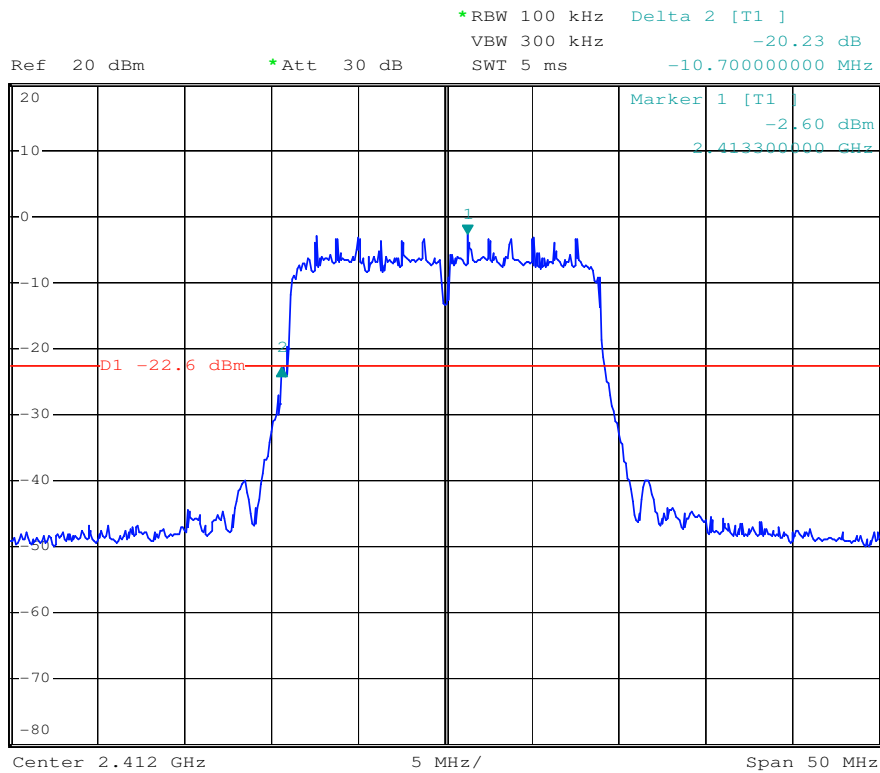


Band Edge (Conducted Mode)
(Chain 100)





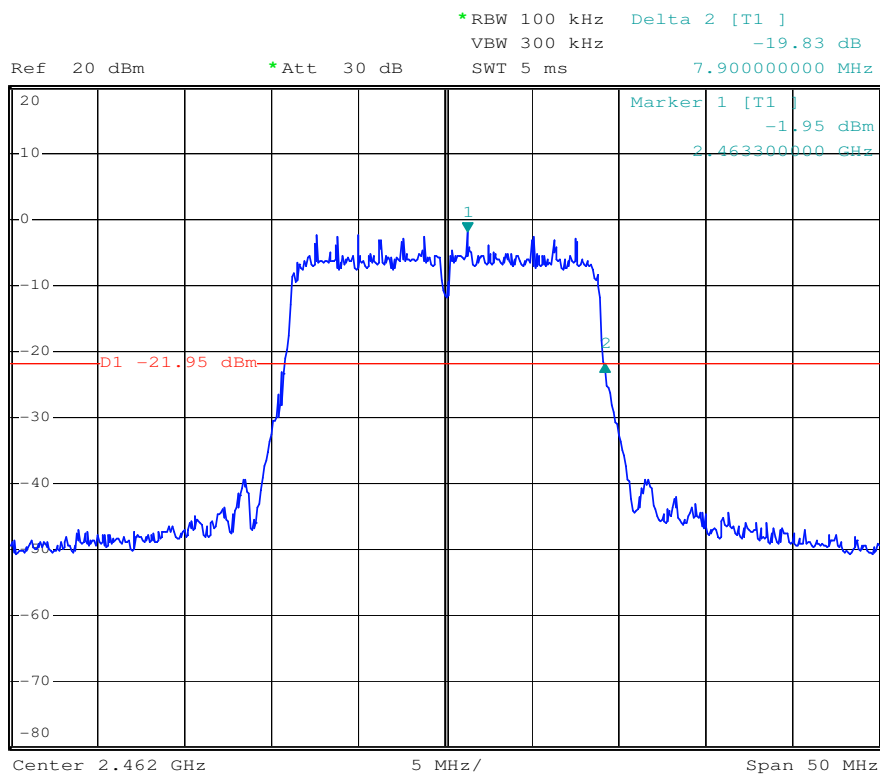
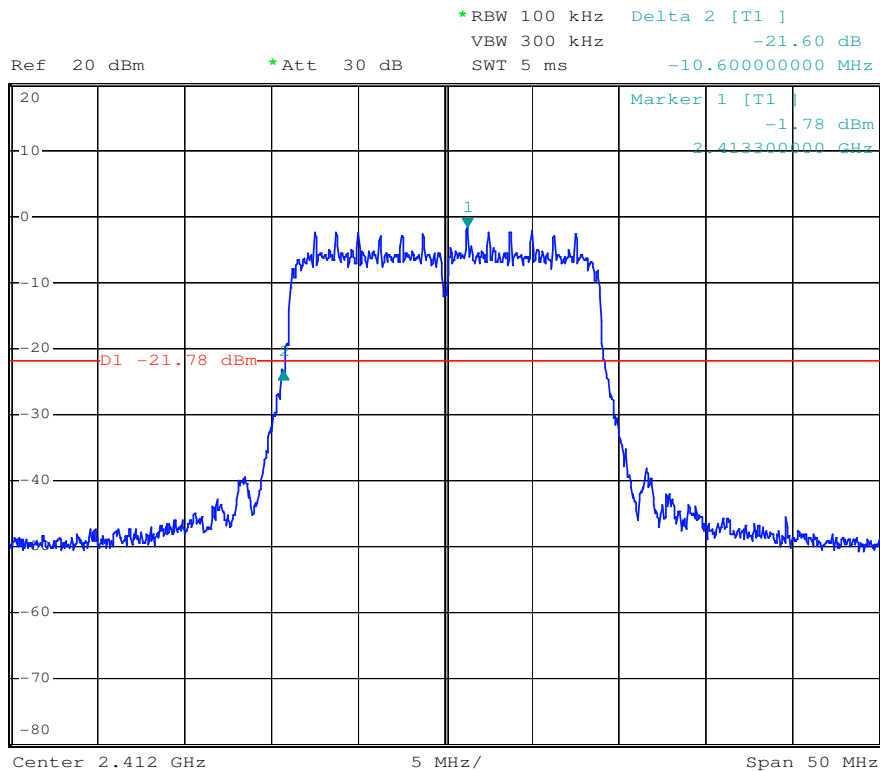
(Chain 010)



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(Chain 001)



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802.11n 2.4G Band (40MHz BW) 6.5Mbps 30MHz-25GHz
(Chain 100)

