



Neutron Engineering Inc.

FCC&IC Radio Test Report

FCC ID: ACJ-SC-ALL8

IC: 216A-SCALL8

This report concerns (check one) : ☒ Original Grant ☐ Class II Change

Issued Date : Jan. 23, 2014
Project No. : 1312C279
Equipment : WIRELESS SPEAKER SYSTEM
Model Name : SC-ALL8
Applicant for FCC : Panasonic Corporation of North America
Applicant for IC : Panasonic Canada Inc.
Address for FCC : Two Riverfront Plaza, 9th Floor Newark New Jersey United States 07102-5490
Address for IC : 5770 Ambler Drive Mississauga Ontario L4W 2T3 Canada

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Dec. 31, 2013

Date of Test: Dec. 31, 2013 ~ Jan. 22, 2014

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (NML) of R.O.C., or National Institute of Standards and Technology (NIST) of U.S.A.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-1-1312C279	Original Issue.	Jan. 23, 2014



1. CERTIFICATION

Equipment : WIRELESS SPEAKER SYSTEM
Brand Name : Panasonic
Model Name : SC-ALL8
Applicant For : Panasonic Corporation of North America
FCC
Applicant For : Panasonic Canada Inc.
IC
Manufacturer : Panasonic
Address : 1-15 Matsuo-cho, Kadoma City, Osaka 571-8504, Japan
Factory : Panasonic AVC Networks Johor Malaysia Sdn.Bhd.
Address : IE,PLO 460,Jalan Bandar, 81700 Pasir Gudang,Johor, Malaysia
Date of Test : Dec. 31, 2013 ~ Jan. 22, 2014
Test Item : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.4 : 2009;
Canada RSS-210:2010
RSS-GEN Issue 3, Dec 2010
FCC KDB 789033 D01 General UNII Test Procedures v01r03 .

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-2-1312C279) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E Canada RSS-210:2010/ RSS-GEN Issue 3, Dec 2010				
Standard(s) Section		Test Item	Judgment	Remark
FCC	IC			
15.207	RSS-GEN 7.2.2	AC Power Line Conducted Emissions	PASS	
15.407(a)	RSS-210 A9.2(1)	26dB Spectrum Bandwidth	PASS	
15.407(a)	RSS-210 A9.2(1)	Maximum Conducted Output Power	PASS	
15.407(a)	RSS-210 A9.2(1)	Power Spectral Density	PASS	
15.407(a)	-	Peak Excursion	PASS	
15.407(a)	RSS-210 Annex 8 (A8.5)	Radiated Emissions	PASS	
15.407(b)	RSS-210 A9.2(1)	Band Edge Emissions	PASS	
15.407(g)	RSS-210 A1.1.4	Frequency Stability	PASS	
15.203	-	Antenna Requirements	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this test report



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3,Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

Neutron's test firm number for FCC: 319330

Neutron's test firm number for IC: 4428B-1

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95%** ◦

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U , (dB)	NOTE
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	H	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	H	4.14	



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	WIRELESS SPEAKER SYSTEM	
Brand Name	Panasonic	
Model Name	SC-ALL8	
Mode Different	N/A	
Product Description	Operation Frequency	Band 1:5150MHz~5250MHz Band 2:5250MHz~5350MHz Band 3:5470MHz~5725MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	11a:6/ 9/12/18/24/36/48/54Mbps 11n:300Mbps
	Output Power (Max.)-Band 1	802.11a:14.38dBm 802.11N20:16.63dBm 802.11N40:16.91dBm
	Output Power (Max.)-Band 2	802.11a:18.94 dBm 802.11N20:18.99dBm 802.11N40:16.88dBm
	Output Power (Max.)-Band 3	802.11a:18.98dBm 802.11N20:16.98dBm 802.11N40:16.95dBm
Power Source	AC mains.	
Power Rating	120V 60Hz	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2. Channel List:

802.11a / 802.11n 20M							
Band 1		Band 2		Band 3			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260	100	5500	116	5580
40	5200	56	5280	104	5520	132	5660
44	5220	60	5300	108	5540	136	5680
48	5240	64	5320	112	5560	140	5700

802.11n 40M							
Band 1		Band 2		Band 3			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	54	5270	102	5510	126	5630
46	5230	62	5310	110	5550	134	5670
				118	5590		

3. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Internal	N/A	3.7	TX/RX
2	N/A	N/A	Internal	N/A	4.1	TX/RX

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}** , that is Directional gain=4.1.

(2) The EUT is considered two different ANT types, internal ANT is testing and recording in test report, PCB ANT is not used.

4.

Operating Mode TX Mode	1TX	2TX
802.11a	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48(Band 1) TX A Mode / CH52, CH56, CH64(Band 2) TX A Mode / CH100, CH116, CH140(Band 3)
Mode 2	TX N20 Mode / CH36, CH40, CH48(Band 1) TX N20 Mode / CH52, CH56, CH64(Band 2) TX N20 Mode / CH100, CH116, CH140(Band 3)
Mode 3	TX N40 Mode / CH38, CH46 (Band 1) TX N40 Mode / CH54, CH62 (Band 2) TX N40 Mode/CH102, CH110, CH134(Band 3)
Mode 4	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 4	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48(Band 1) TX A Mode / CH52, CH56, CH64(Band 2) TX A Mode / CH100, CH116, CH140(Band 3)
Mode 2	TX N20 Mode / CH36, CH40, CH48(Band 1) TX N20 Mode / CH52, CH56, CH64(Band 2) TX N20 Mode / CH100, CH116, CH140(Band 3)
Mode 3	TX N40 Mode / CH38, CH46 (Band 1) TX N40 Mode / CH54, CH62 (Band 2) TX N40 Mode/CH102, CH110, CH134(Band 3)

Note: For Radiated Below 1G test, the 802.11a mode is found to be the worst case and recorded.



3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product

Test software version	art_ver_4_6_153_10		
Frequency	5180 MHz	5200MHz	5240 MHz
A Mode	15	15	14.5
Frequency	5260 MHz	5280 MHz	5320 MHz
A Mode	22.5	22.5	18
Frequency	5500 MHz	5580 MHz	5700 MHz
A Mode	17.5	22.5	18.5

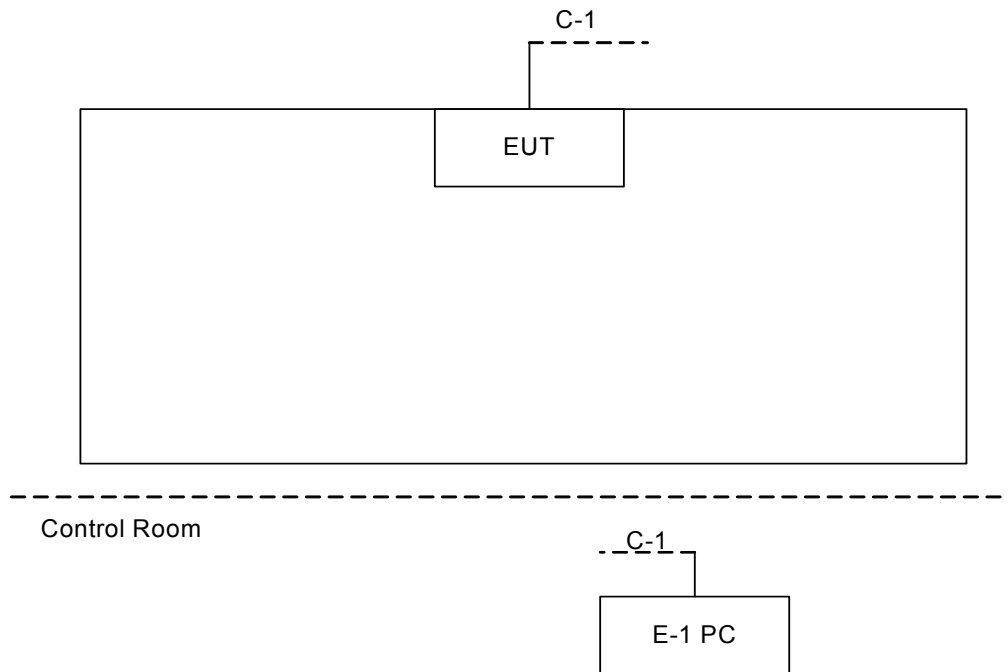
Test software version	art_ver_4_6_153_10		
Frequency	5180 MHz	5200MHz	5240 MHz
N20 Mode	15.5	15	15
Frequency	5260 MHz	5280 MHz	5320 MHz
N20 Mode	18.5	18.5	18
Frequency	5500 MHz	5580 MHz	5700 MHz
N20 Mode	15.5	16	16

Test software version	art_ver_4_6_153_10		
Frequency	5190 MHz	5230MHz	
N40 Mode	14	17	
Frequency	5270 MHz	5310 MHz	
N40 Mode	17.5	13.5	
Frequency	5510 MHz	5550 MHz	5670 MHz
N40M Mode	16.5	17.5	17.5

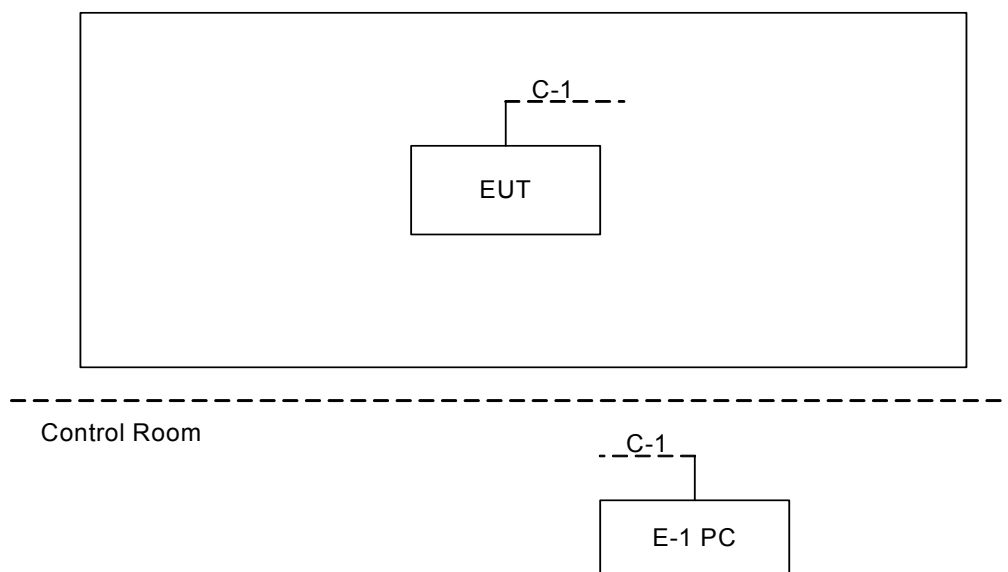


3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted TX Mode:



Radiated TX Mode:





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
E-1	PC	HP	G3321Cx	DOC	CNX8120R16	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ45 Cable



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

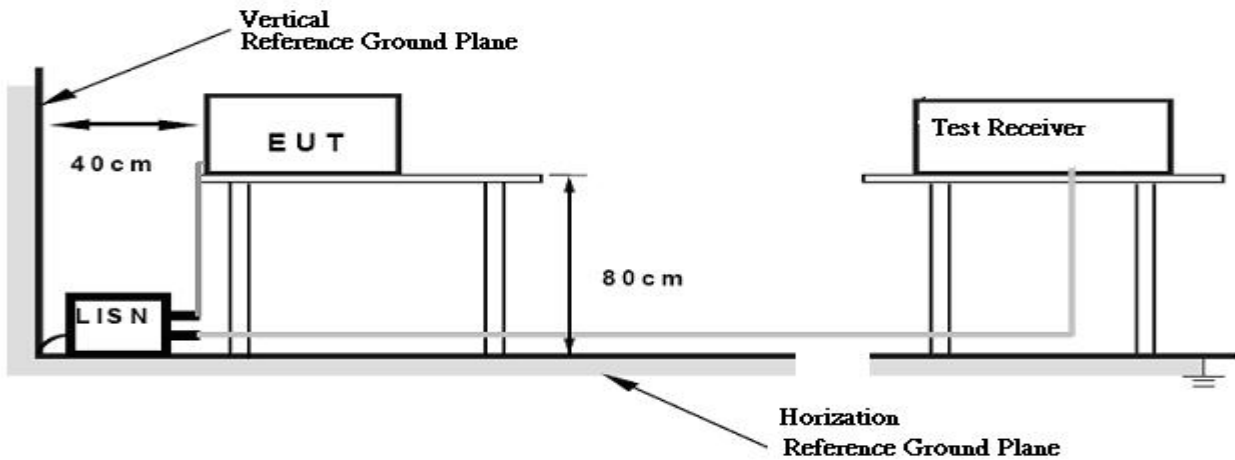
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: 120V/60Hz

4.1.7 TEST RESULTS

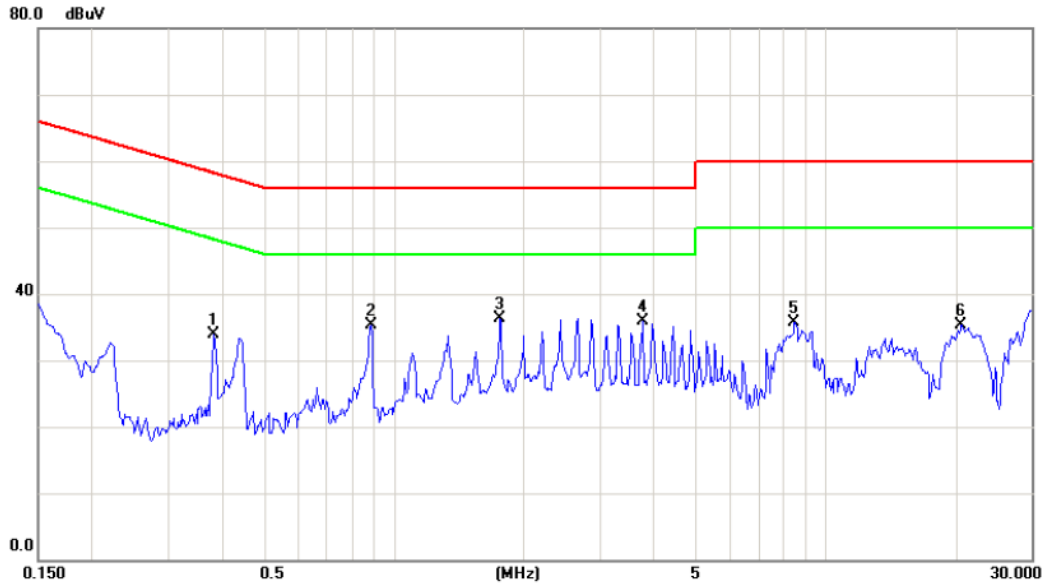
Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “*” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



Test Mode : TX Mode

Line

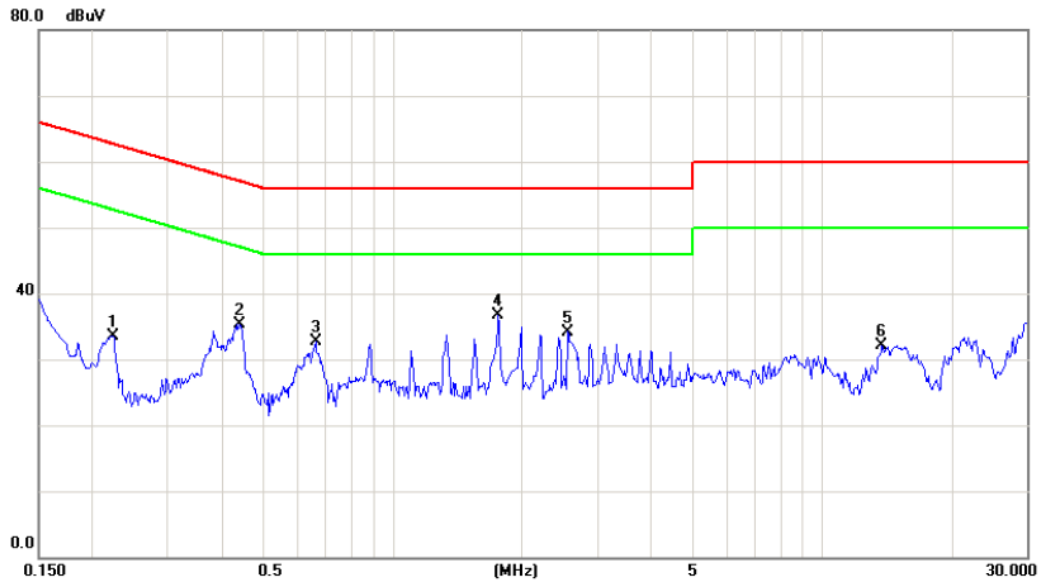


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.3842	24.24	9.68	33.92	58.19	-24.27	peak	
2	0.8881	25.66	9.74	35.40	56.00	-20.60	peak	
3 *	1.7710	26.58	9.82	36.40	56.00	-19.60	peak	
4	3.7850	26.01	9.88	35.89	56.00	-20.11	peak	
5	8.4570	25.71	10.02	35.73	60.00	-24.27	peak	
6	20.6952	25.10	10.25	35.35	60.00	-24.65	peak	



Test Mode : TX Mode

Neutral



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.2242	23.80	9.71	33.51	62.66	-29.15	peak	
2	0.4396	25.58	9.73	35.31	57.07	-21.76	peak	
3	0.6616	22.91	9.75	32.66	56.00	-23.34	peak	
4 *	1.7670	26.92	9.84	36.76	56.00	-19.24	peak	
5	2.5640	24.32	9.88	34.20	56.00	-21.80	peak	
6	13.7850	21.66	10.46	32.12	60.00	-27.88	peak	



4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a) and RSS-210 section 2.2&A8.5, then the 15.209(a) and RSS-Gen limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27	68.3
	-17	78.3

NOTE: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{100000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts)}$$

4.2.2 TEST PROCEDURE

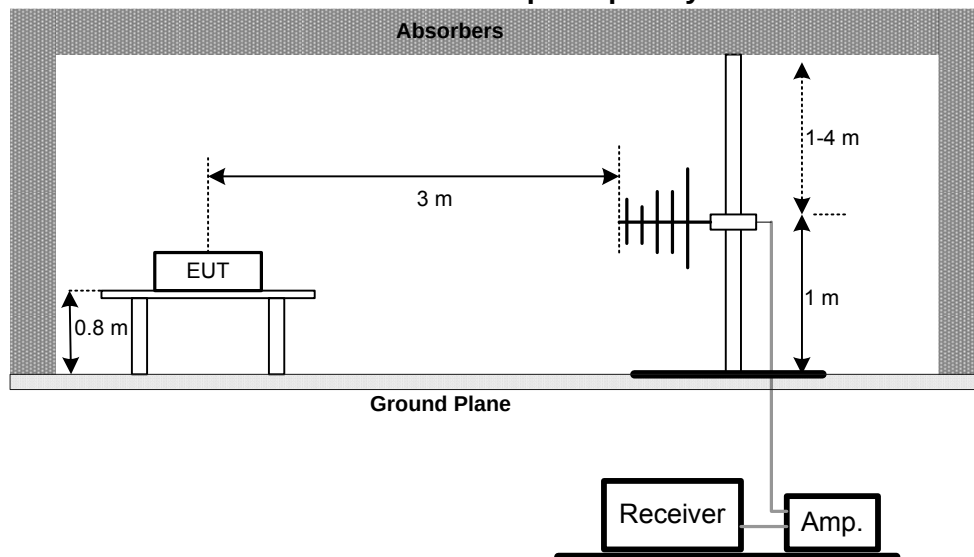
- The measuring distance of at 1.5m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

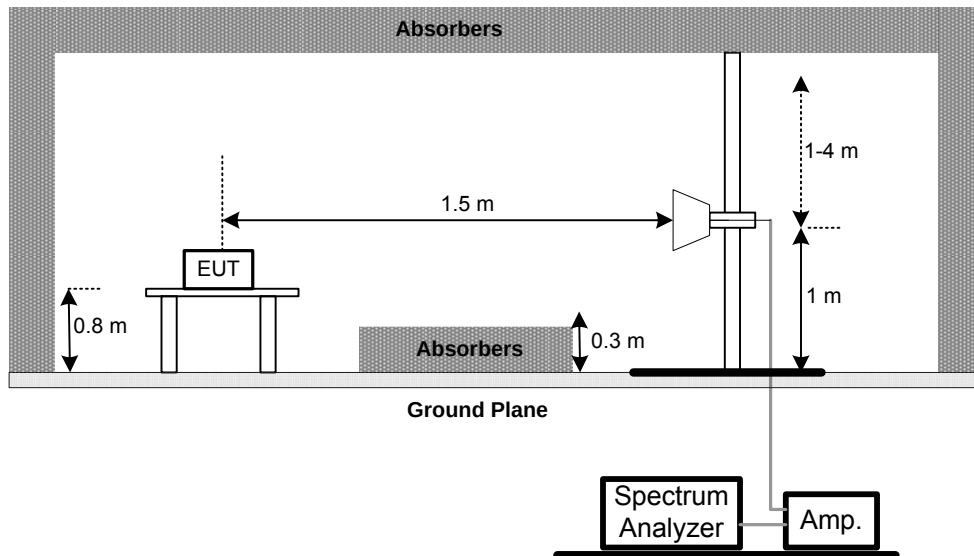
No deviation

4.2.4 TEST SETUP

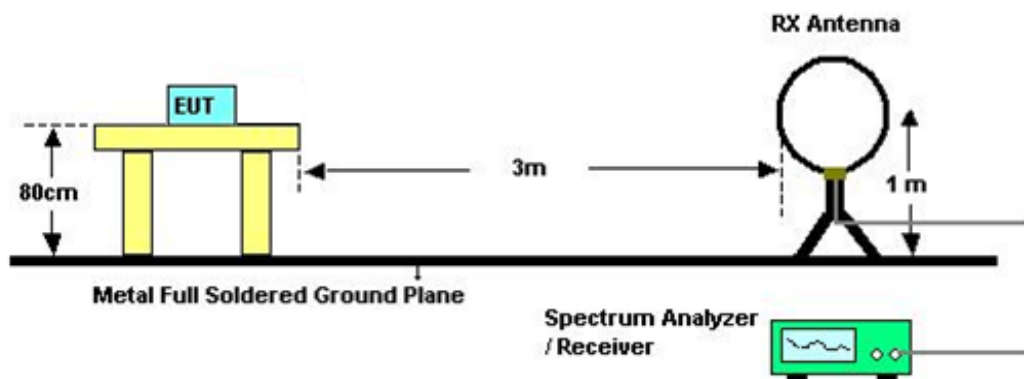
Radiated Emission Test Set-Up Frequency 30 - 1000MHz



Radiated Emission Test Set-Up Frequency Above 1 GHz



Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C

Relative Humidity: 55%

Test Voltage: 120V/60Hz



4.2.7 TEST RESULTS (9K~ 30MHz)

Test Mode :	TX Mode
-------------	---------

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0213	0°	16.52	24.22	40.74	121.04	-80.30	AV
0.0213	0°	18.19	24.22	42.41	141.04	-98.63	PK
0.0279	0°	17.15	23.80	40.95	118.69	-77.74	AV
0.0279	0°	19.03	23.80	42.83	138.69	-95.86	PK
0.0331	0°	17.16	23.47	40.63	117.21	-76.58	AV
0.0331	0°	20.08	23.47	43.55	137.21	-93.66	PK
0.0528	0°	18.47	22.34	40.81	113.15	-72.34	AV
0.0528	0°	21.55	22.34	43.89	133.15	-89.26	PK
0.3170	0°	18.36	20.24	38.60	97.58	-58.98	AVG
0.3170	0°	21.05	20.24	41.29	117.58	-76.29	PK
1.5250	0°	18.73	19.55	38.28	63.94	-25.66	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0175	90°	17.51	24.30	41.81	122.74	-80.93	AVG
0.0175	90°	19.23	24.30	43.53	142.74	-99.21	PK
0.0269	90°	16.95	23.86	40.81	119.01	-78.20	AVG
0.0269	90°	18.33	23.86	42.19	139.01	-96.82	PK
0.0378	90°	20.03	23.17	43.20	116.05	-72.85	AVG
0.0378	90°	21.68	23.17	44.85	136.05	-91.20	PK
0.0519	90°	20.25	22.36	42.61	113.30	-70.69	AVG
0.0519	90°	23.39	22.36	45.75	133.30	-87.55	PK
0.3270	90°	18.45	20.22	38.67	97.31	-58.65	AVG
0.3270	90°	20.72	20.22	40.94	117.31	-76.38	PK
1.6750	90°	18.63	19.53	38.16	63.12	-24.96	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.



4.2.8 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

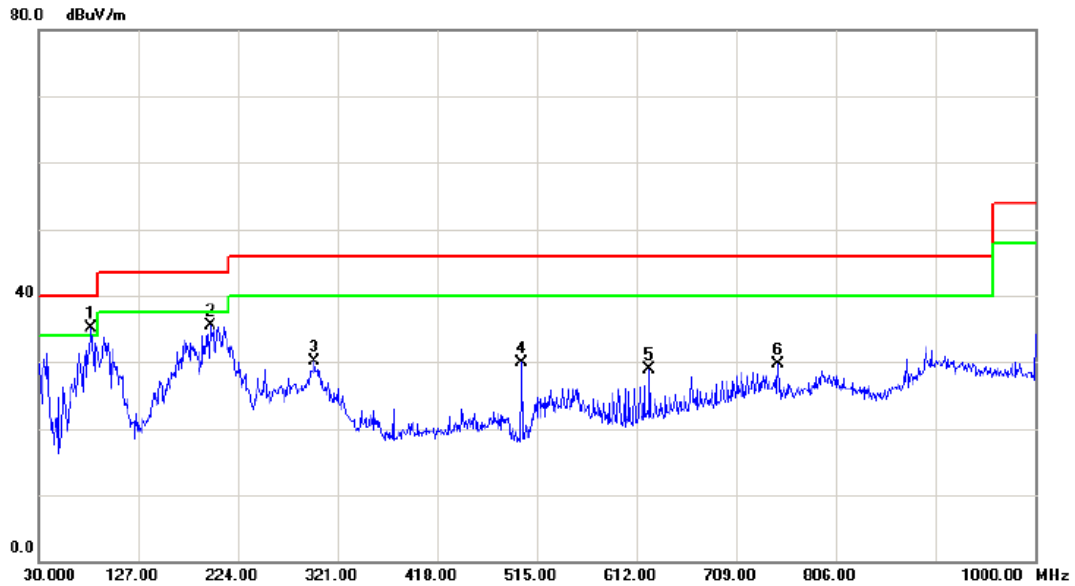
Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦



Test Mode : Band 1/TX A Mode 5180MHz

Vertical

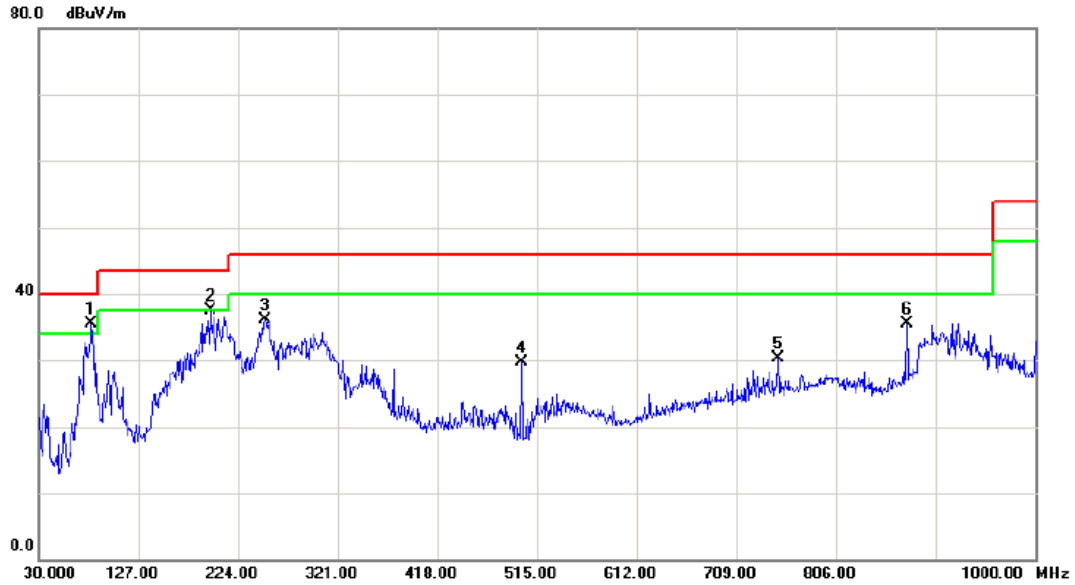


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	51.74	-16.57	35.17	40.00	-4.83	peak	
2		196.8400	50.72	-15.28	35.44	43.50	-8.06	peak	
3		298.6900	41.23	-11.05	30.18	46.00	-15.82	peak	
4		500.4500	40.43	-10.50	29.93	46.00	-16.07	peak	
5		624.6100	35.90	-7.06	28.84	46.00	-17.16	peak	
6		749.7400	35.00	-5.30	29.70	46.00	-16.30	peak	



Test Mode : Band 1/TX A Mode 5180MHz

Horizontal

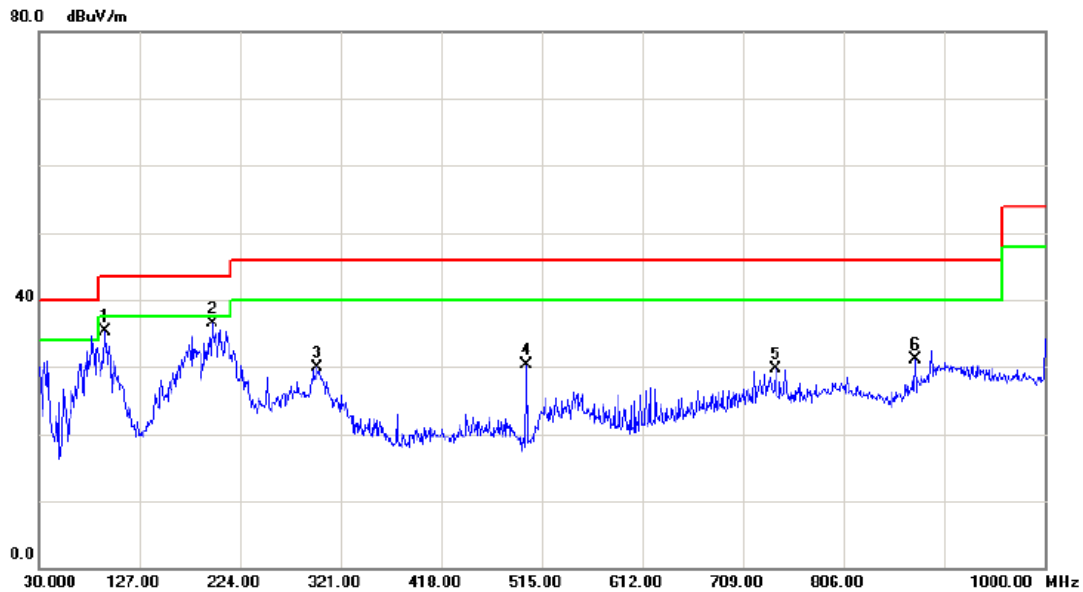


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	52.13	-16.57	35.56	40.00	-4.44	peak	
2		196.8400	52.72	-15.28	37.44	43.50	-6.06	peak	
3		250.1900	51.06	-14.87	36.19	46.00	-9.81	peak	
4		500.4500	40.23	-10.50	29.73	46.00	-16.27	peak	
5		749.7400	35.69	-5.30	30.39	46.00	-15.61	peak	
6		874.8700	37.33	-1.78	35.55	46.00	-10.45	peak	



Test Mode : Band 1/TX A Mode 5200MHz

Vertical

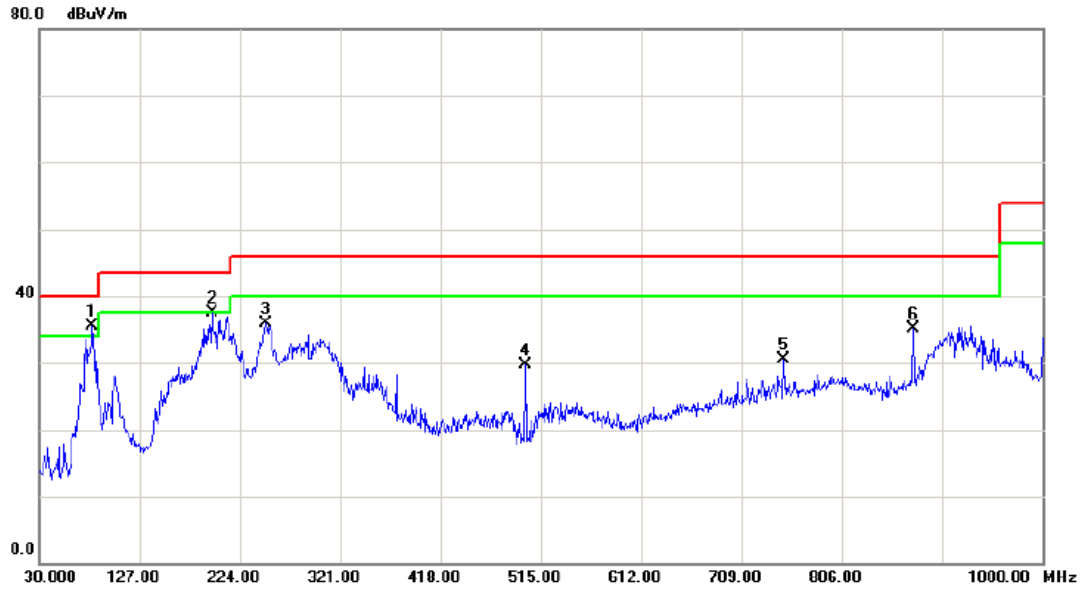


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		94.0200	52.08	-16.85	35.23	43.50	-8.27	peak	
2	*	196.8400	51.69	-15.28	36.41	43.50	-7.09	peak	
3		298.6900	40.97	-11.05	29.92	46.00	-16.08	peak	
4		500.4500	40.82	-10.50	30.32	46.00	-15.68	peak	
5		740.0400	34.81	-5.13	29.68	46.00	-16.32	peak	
6		874.8700	32.83	-1.78	31.05	46.00	-14.95	peak	



Test Mode : Band 1/TX A Mode 5200MHz

Horizontal

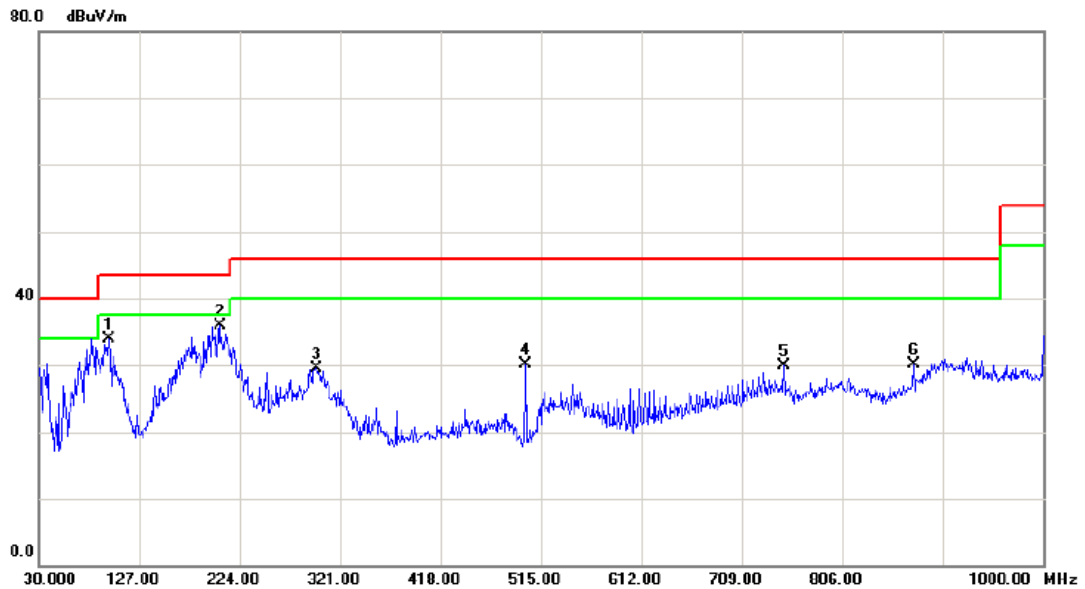


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	52.06	-16.57	35.49	40.00	-4.51	peak	
2		196.8400	52.77	-15.28	37.49	43.50	-6.01	peak	
3		249.2200	50.74	-14.86	35.88	46.00	-10.12	peak	
4		500.4500	40.13	-10.50	29.63	46.00	-16.37	peak	
5		749.7400	35.72	-5.30	30.42	46.00	-15.58	peak	
6		874.8700	36.95	-1.78	35.17	46.00	-10.83	peak	



Test Mode : Band 1/TX A Mode 5240MHz

Vertical

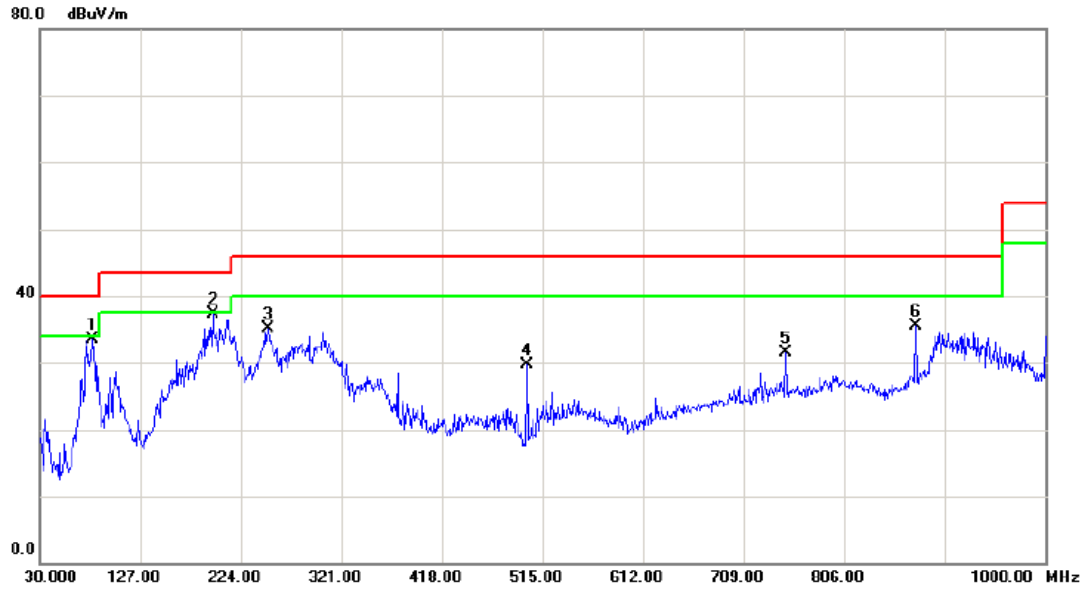


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		97.9000	50.30	-16.38	33.92	43.50	-9.58	peak	
2	*	204.6000	51.30	-15.35	35.95	43.50	-7.55	peak	
3		298.6900	40.57	-11.05	29.52	46.00	-16.48	peak	
4		500.4500	40.55	-10.50	30.05	46.00	-15.95	peak	
5		749.7400	35.29	-5.30	29.99	46.00	-16.01	peak	
6		874.8700	31.84	-1.78	30.06	46.00	-15.94	peak	



Test Mode : Band 1/TX A Mode 5240MHz

Horizontal

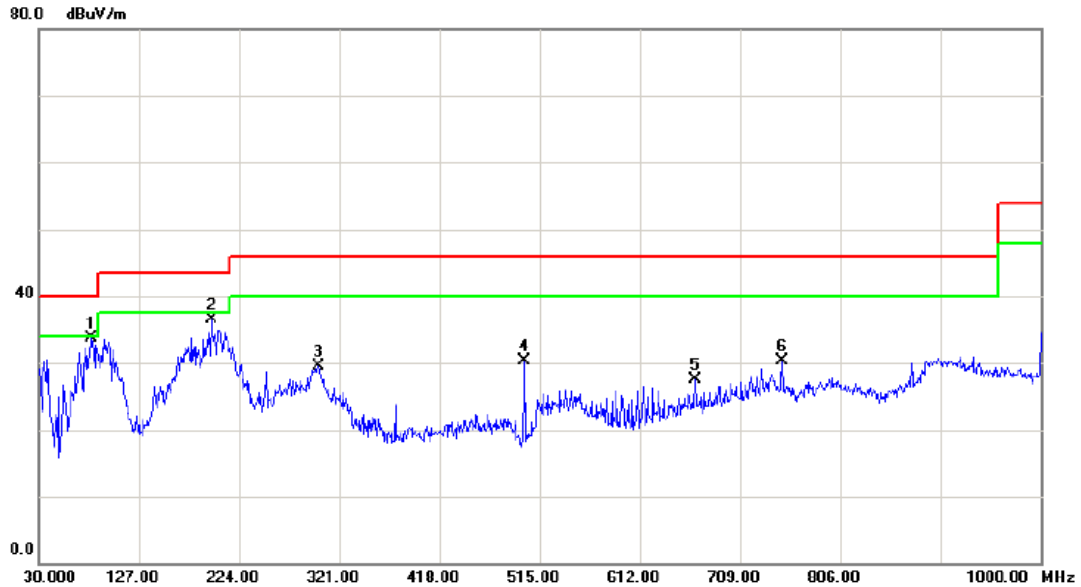


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		81.4100	50.00	-16.57	33.43	40.00	-6.57	peak	
2	*	196.8400	52.57	-15.28	37.29	43.50	-6.21	peak	
3		250.1900	49.91	-14.87	35.04	46.00	-10.96	peak	
4		500.4500	40.17	-10.50	29.67	46.00	-16.33	peak	
5		749.7400	36.81	-5.30	31.51	46.00	-14.49	peak	
6		874.8700	37.29	-1.78	35.51	46.00	-10.49	peak	



Test Mode : Band 2/TX A Mode 5260MHz

Vertical

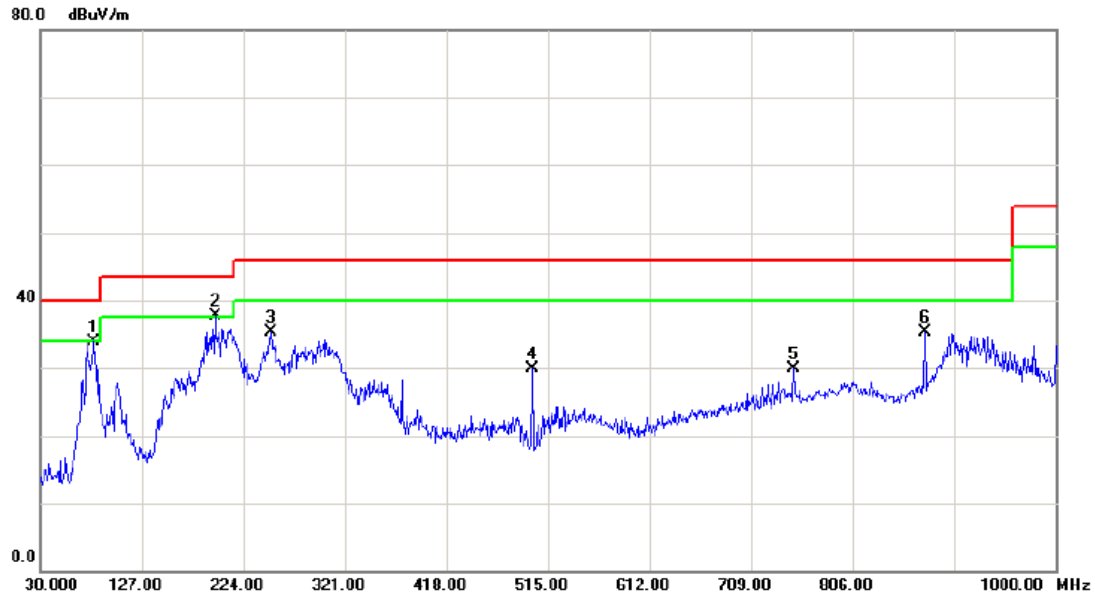


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.30	-16.57	33.73	40.00	-6.27	peak	
2		196.8400	51.75	-15.28	36.47	43.50	-7.03	peak	
3		300.6300	40.37	-10.95	29.42	46.00	-16.58	peak	
4		500.4500	40.71	-10.50	30.21	46.00	-15.79	peak	
5		665.3500	32.92	-5.42	27.50	46.00	-18.50	peak	
6		749.7400	35.69	-5.30	30.39	46.00	-15.61	peak	



Test Mode : Band 2/TX A Mode 5260MHz

Horizontal

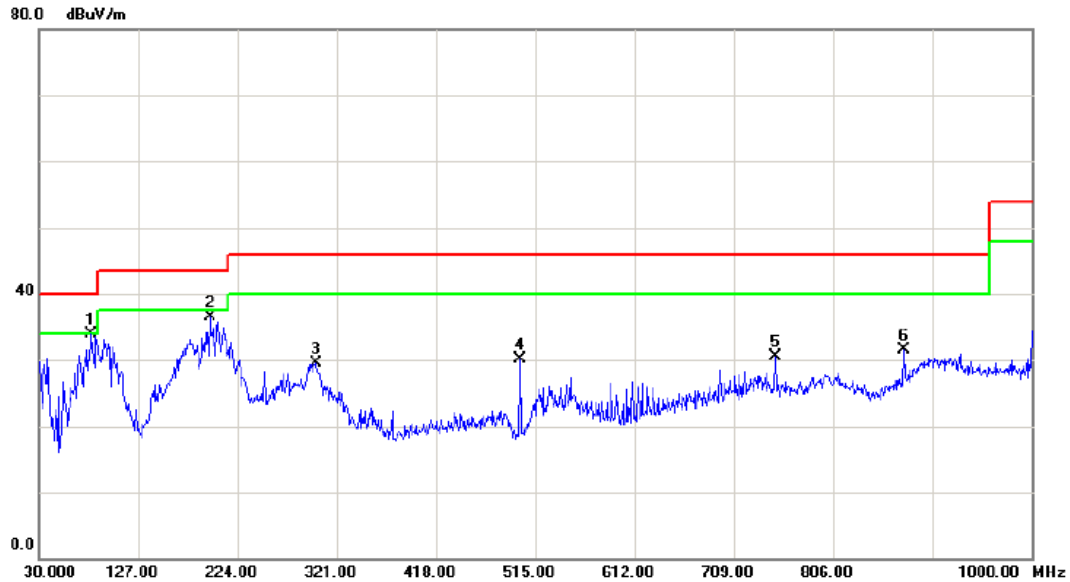


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		81.4100	50.40	-16.57	33.83	40.00	-6.17	peak	
2	*	196.8400	52.98	-15.28	37.70	43.50	-5.80	peak	
3		250.1900	50.08	-14.87	35.21	46.00	-10.79	peak	
4		500.4500	40.40	-10.50	29.90	46.00	-16.10	peak	
5		749.7400	35.25	-5.30	29.95	46.00	-16.05	peak	
6		874.8700	37.16	-1.78	35.38	46.00	-10.62	peak	



Test Mode : Band 2/TX A Mode 5280MHz

Vertical

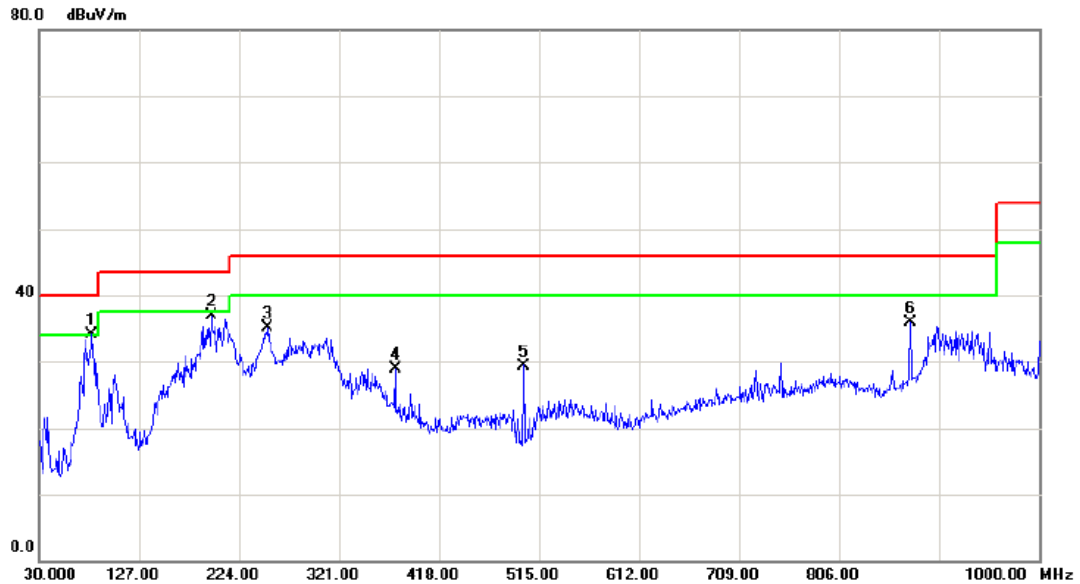


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.41	-16.57	33.84	40.00	-6.16	peak	
2		196.8400	51.78	-15.28	36.50	43.50	-7.00	peak	
3		300.6300	40.46	-10.95	29.51	46.00	-16.49	peak	
4		500.4500	40.53	-10.50	30.03	46.00	-15.97	peak	
5		749.7400	35.75	-5.30	30.45	46.00	-15.55	peak	
6		874.8700	33.27	-1.78	31.49	46.00	-14.51	peak	



Test Mode : Band 2/TX A Mode 5280MHz

Horizontal

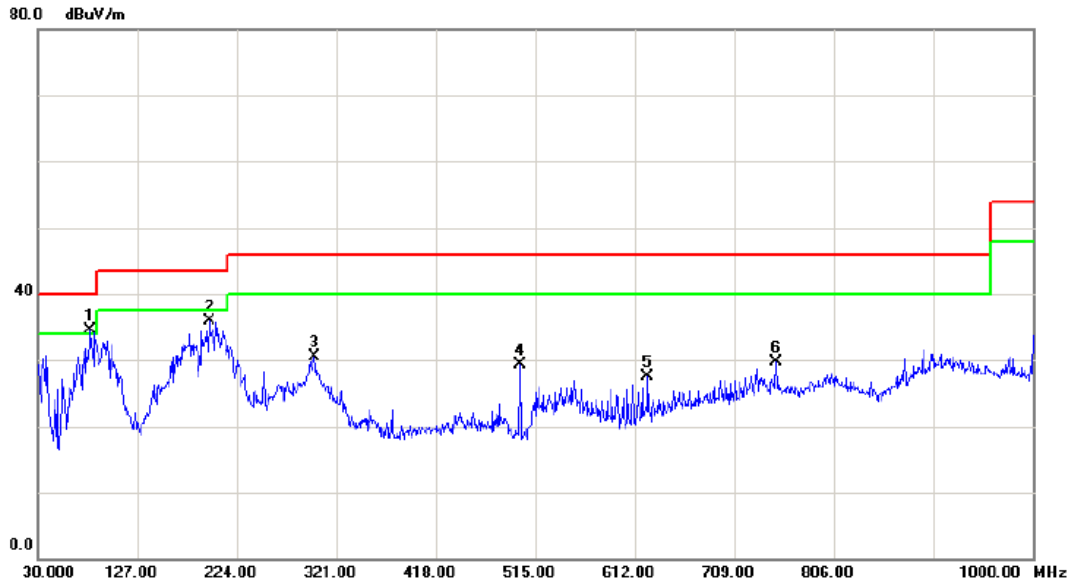


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.72	-16.57	34.15	40.00	-5.85	peak	
2		196.8400	52.09	-15.28	36.81	43.50	-6.69	peak	
3		252.1300	49.95	-14.85	35.10	46.00	-10.90	peak	
4		375.3200	39.55	-10.56	28.99	46.00	-17.01	peak	
5		500.4500	39.90	-10.50	29.40	46.00	-16.60	peak	
6		874.8700	37.76	-1.78	35.98	46.00	-10.02	peak	



Test Mode : Band 2/TX A Mode 5320MHz

Vertical

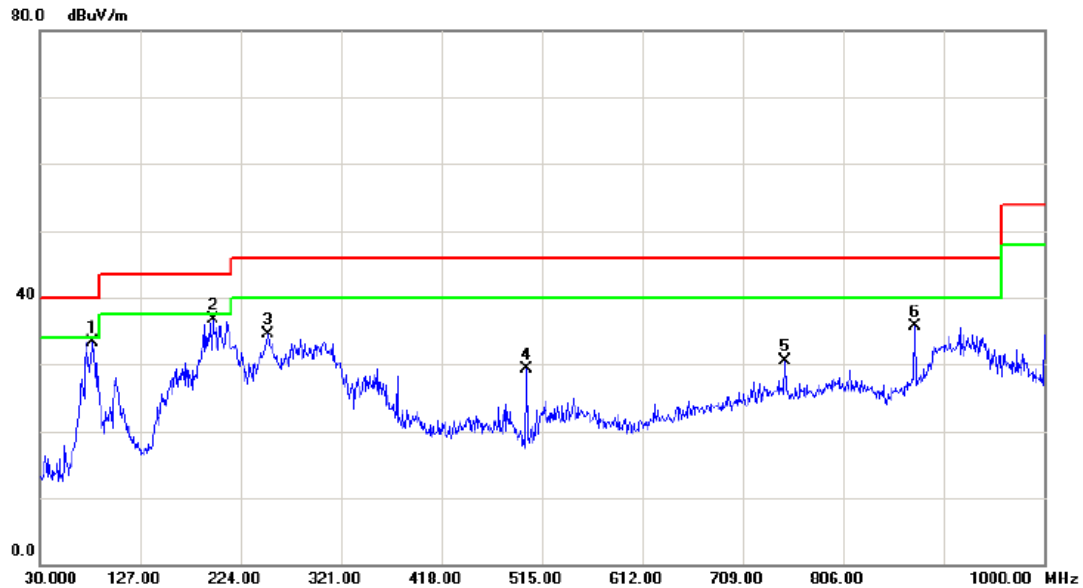


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	51.11	-16.57	34.54	40.00	-5.46	peak	
2		196.8400	51.27	-15.28	35.99	43.50	-7.51	peak	
3		299.6600	41.51	-10.97	30.54	46.00	-15.46	peak	
4		500.4500	39.84	-10.50	29.34	46.00	-16.66	peak	
5		624.6100	34.57	-7.06	27.51	46.00	-18.49	peak	
6		749.7400	35.04	-5.30	29.74	46.00	-16.26	peak	



Test Mode : Band 2/TX A Mode 5320MHz

Horizontal

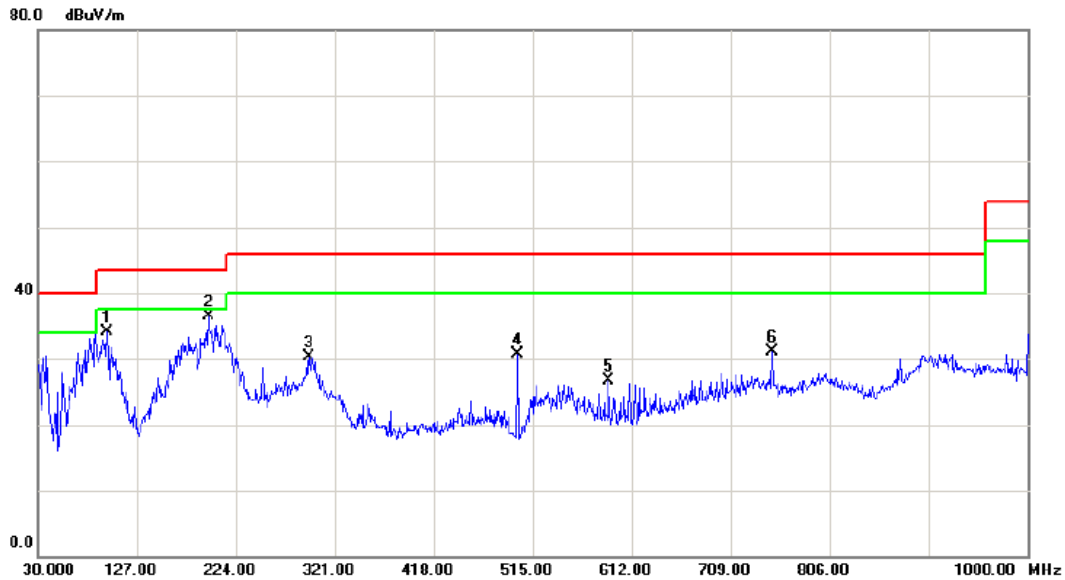


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	49.96	-16.57	33.39	40.00	-6.61	peak	
2		196.8400	52.03	-15.28	36.75	43.50	-6.75	peak	
3		250.1900	49.43	-14.87	34.56	46.00	-11.44	peak	
4		500.4500	39.84	-10.50	29.34	46.00	-16.66	peak	
5		749.7400	35.90	-5.30	30.60	46.00	-15.40	peak	
6		874.8700	37.57	-1.78	35.79	46.00	-10.21	peak	



Test Mode : Band 3/TX A Mode 5500MHz

Vertical

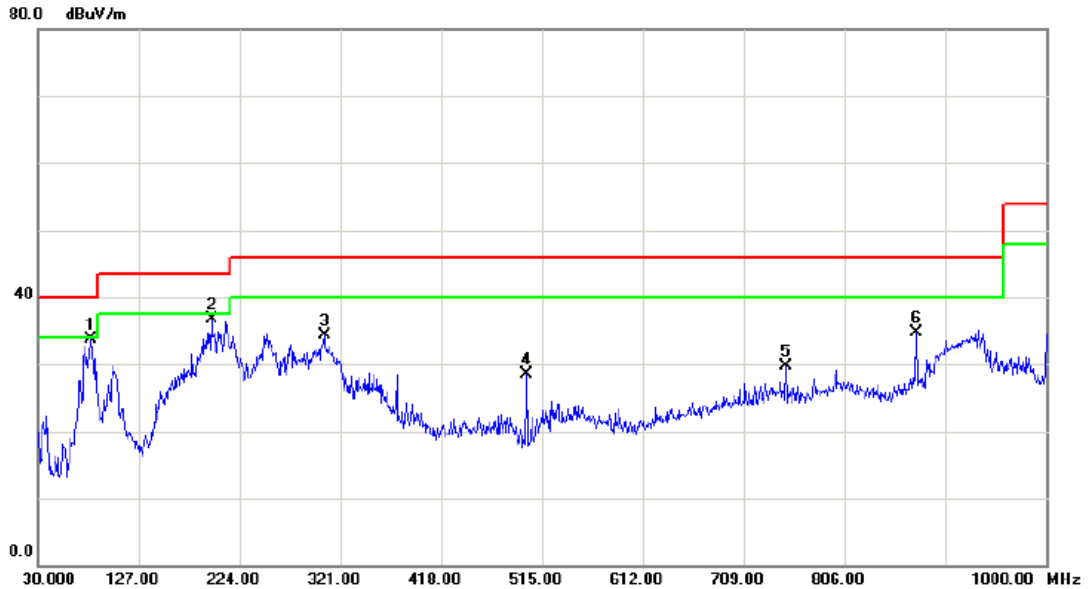


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		97.9000	50.53	-16.38	34.15	43.50	-9.35	peak	
2	*	196.8400	51.79	-15.28	36.51	43.50	-6.99	peak	
3		295.7800	41.53	-11.28	30.25	46.00	-15.75	peak	
4		500.4500	41.24	-10.50	30.74	46.00	-15.26	peak	
5		589.6900	34.35	-7.72	26.63	46.00	-19.37	peak	
6		749.7400	36.45	-5.30	31.15	46.00	-14.85	peak	



Test Mode : Band 3/TX A Mode 5500MHz

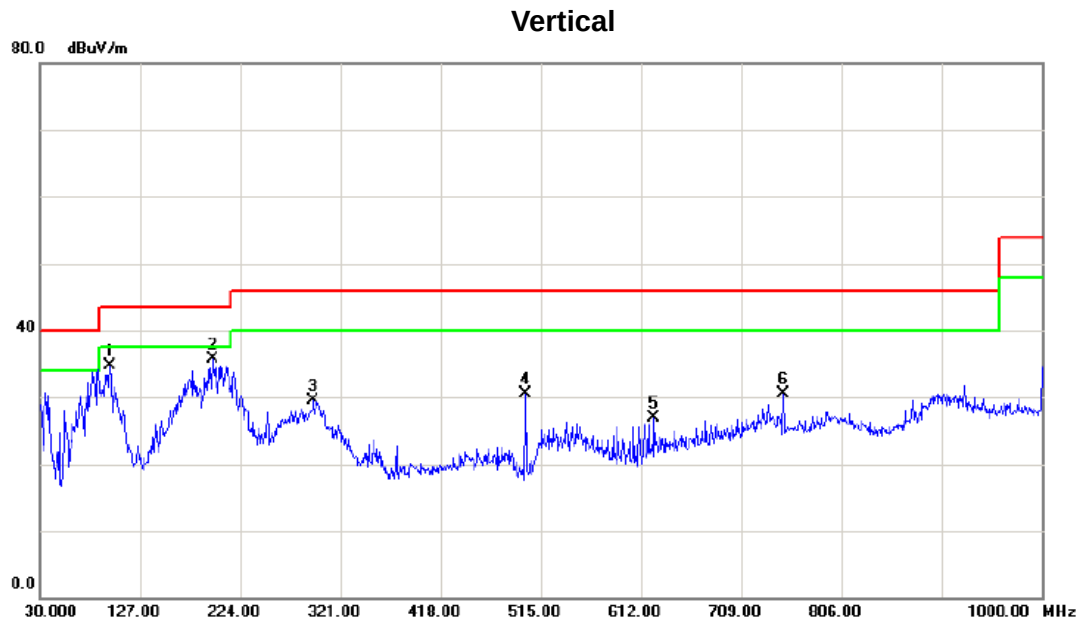
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.29	-16.57	33.72	40.00	-6.28	peak	
2		196.8400	51.90	-15.28	36.62	43.50	-6.88	peak	
3		305.4800	45.32	-10.99	34.33	46.00	-11.67	peak	
4		500.4500	38.95	-10.50	28.45	46.00	-17.55	peak	
5		749.7400	34.91	-5.30	29.61	46.00	-16.39	peak	
6		874.8700	36.54	-1.78	34.76	46.00	-11.24	peak	



Test Mode : Band 3/TX A Mode 5580MHz

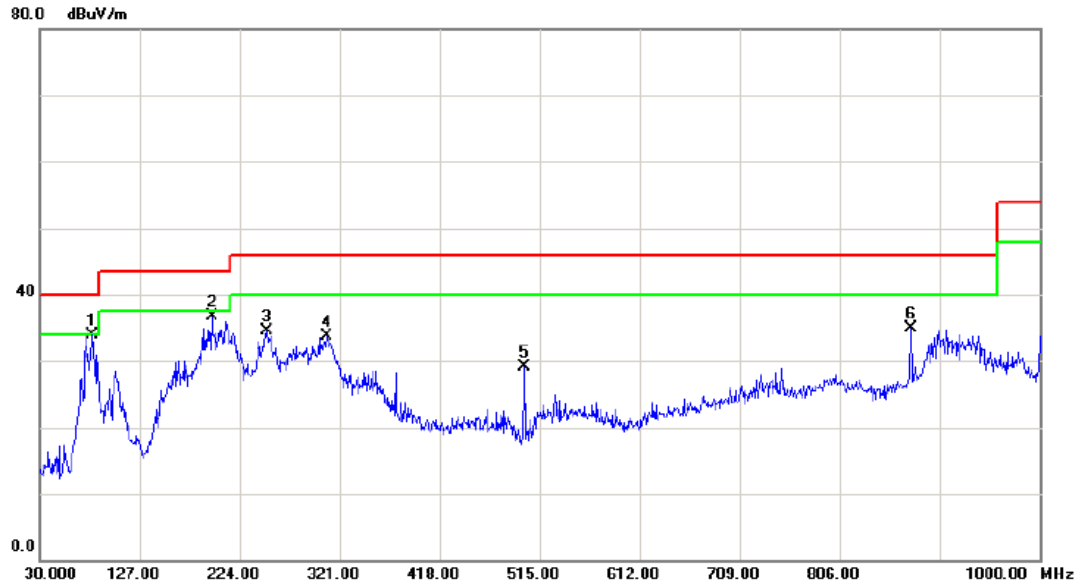


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		97.9000	51.17	-16.38	34.79	43.50	-8.71	peak	
2	*	196.8400	51.07	-15.28	35.79	43.50	-7.71	peak	
3		294.8100	40.85	-11.35	29.50	46.00	-16.50	peak	
4		500.4500	41.10	-10.50	30.60	46.00	-15.40	peak	
5		624.6100	34.01	-7.06	26.95	46.00	-19.05	peak	
6		749.7400	35.71	-5.30	30.41	46.00	-15.59	peak	



Test Mode : Band 3/TX A Mode 5580MHz

Horizontal

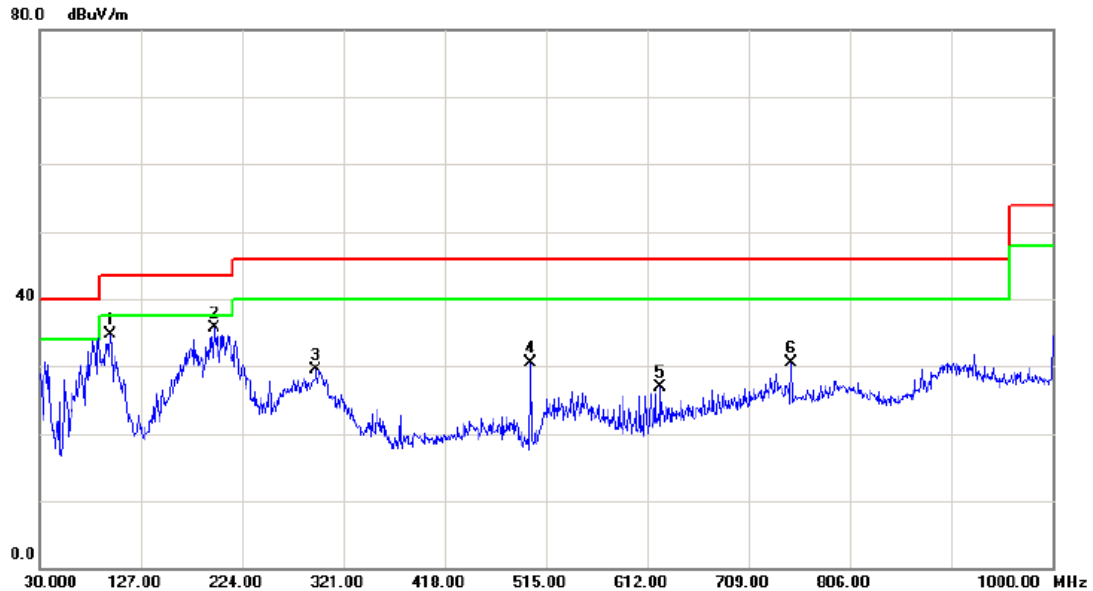


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.39	-16.57	33.82	40.00	-6.18	peak	
2		196.8400	51.91	-15.28	36.63	43.50	-6.87	peak	
3		250.1900	49.46	-14.87	34.59	46.00	-11.41	peak	
4		308.3900	44.77	-11.02	33.75	46.00	-12.25	peak	
5		500.4500	39.69	-10.50	29.19	46.00	-16.81	peak	
6		874.8700	36.61	-1.78	34.83	46.00	-11.17	peak	



Test Mode : Band 3/TX A Mode 5700MHz

Vertical

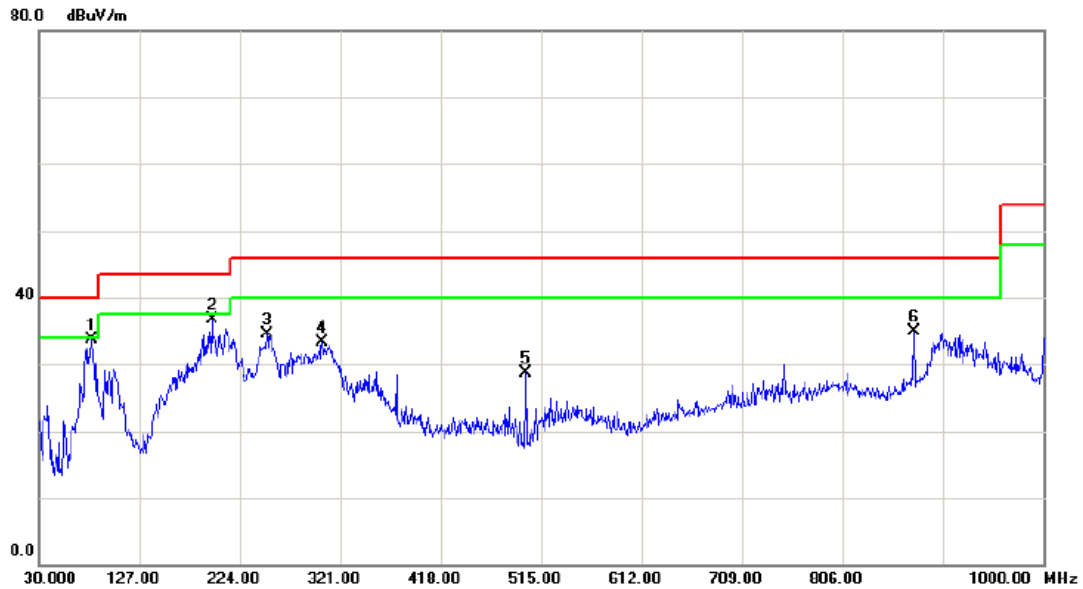


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		97.9000	51.17	-16.38	34.79	43.50	-8.71	peak	
2	*	196.8400	51.07	-15.28	35.79	43.50	-7.71	peak	
3		294.8100	40.85	-11.35	29.50	46.00	-16.50	peak	
4		500.4500	41.10	-10.50	30.60	46.00	-15.40	peak	
5		624.6100	34.01	-7.06	26.95	46.00	-19.05	peak	
6		749.7400	35.71	-5.30	30.41	46.00	-15.59	peak	



Test Mode : Band 3/TX A Mode 5700MHz

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	81.4100	50.31	-16.57	33.74	40.00	-6.26	peak	
2		196.8400	51.99	-15.28	36.71	43.50	-6.79	peak	
3		250.1900	49.29	-14.87	34.42	46.00	-11.58	peak	
4		303.5400	44.20	-10.98	33.22	46.00	-12.78	peak	
5		500.4500	39.29	-10.50	28.79	46.00	-17.21	peak	
6		874.8700	36.68	-1.78	34.90	46.00	-11.10	peak	



4.2.9 TEST RESULTS - ABOVE 1000MHZ

Remark:

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note 』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes:
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Test Mode :	Band 1/ TX A Mode 5180MHz
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Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	V	13.97	3.67	42.72	56.69	46.39	-48.08	-58.38	68.30	54.00	-27.00	-41.30	X/E
5183.10	V	60.74	51.97	42.80	103.54	94.77	-1.23	-10.00					X/F
10361.20	V	47.56	34.89	16.02	63.58	50.91	-41.19	-53.86	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	H	21.35	9.94	42.72	64.07	52.66	-40.70	-52.11	68.30	54.00	-27.00	-41.30	X/E
5174.30	H	63.93	55.05	42.78	106.71	97.83	1.94	-6.94					X/F
10361.10	H	47.25	34.28	16.02	63.27	50.30	-41.50	-54.47	68.30	54.00	-27.00	-41.30	X/H

Test Mode :	Band 1/ TX A Mode 5200MHz
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Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5204.40	V	61.76	53.39	42.86	104.62	96.25	-0.15	-8.52					X/F
10400.10	V	47.12	33.89	15.97	63.09	49.86	-41.68	-54.91	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5207.10	H	63.74	55.32	42.86	106.60	98.18	1.83	-6.59					X/F
10399.80	H	44.58	33.56	15.97	60.55	49.53	-44.22	-55.24	68.30	54.00	-27.00	-41.30	X/H

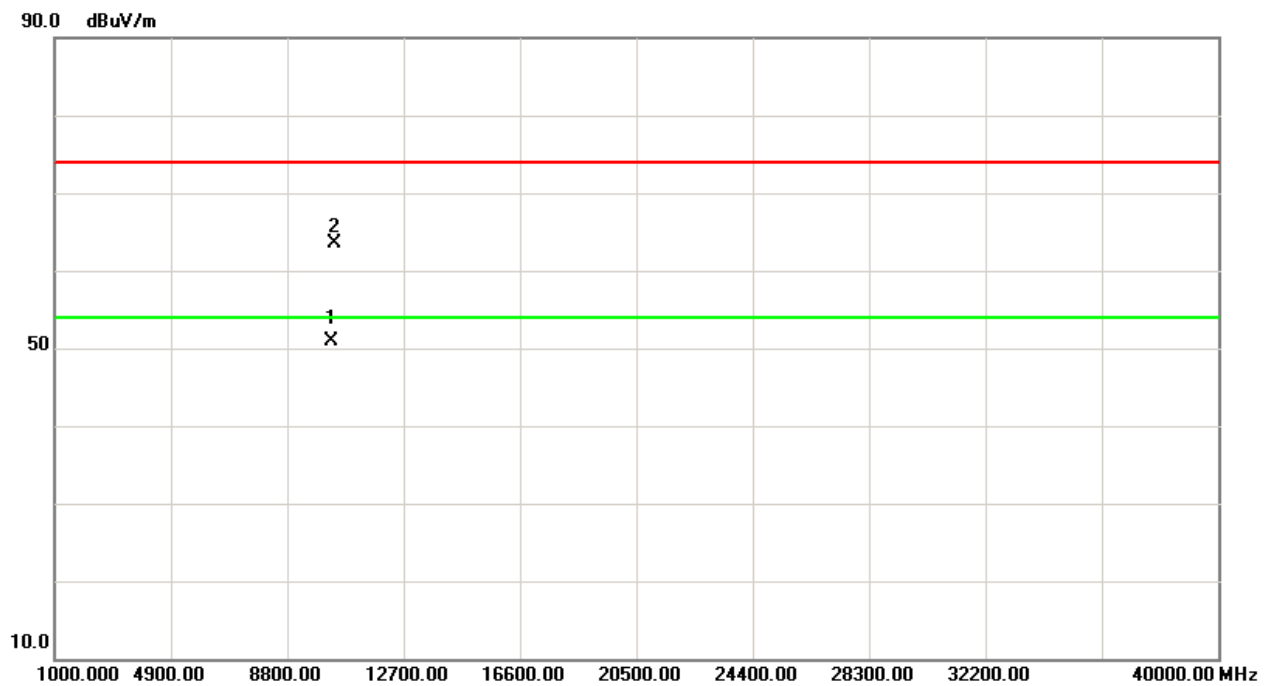
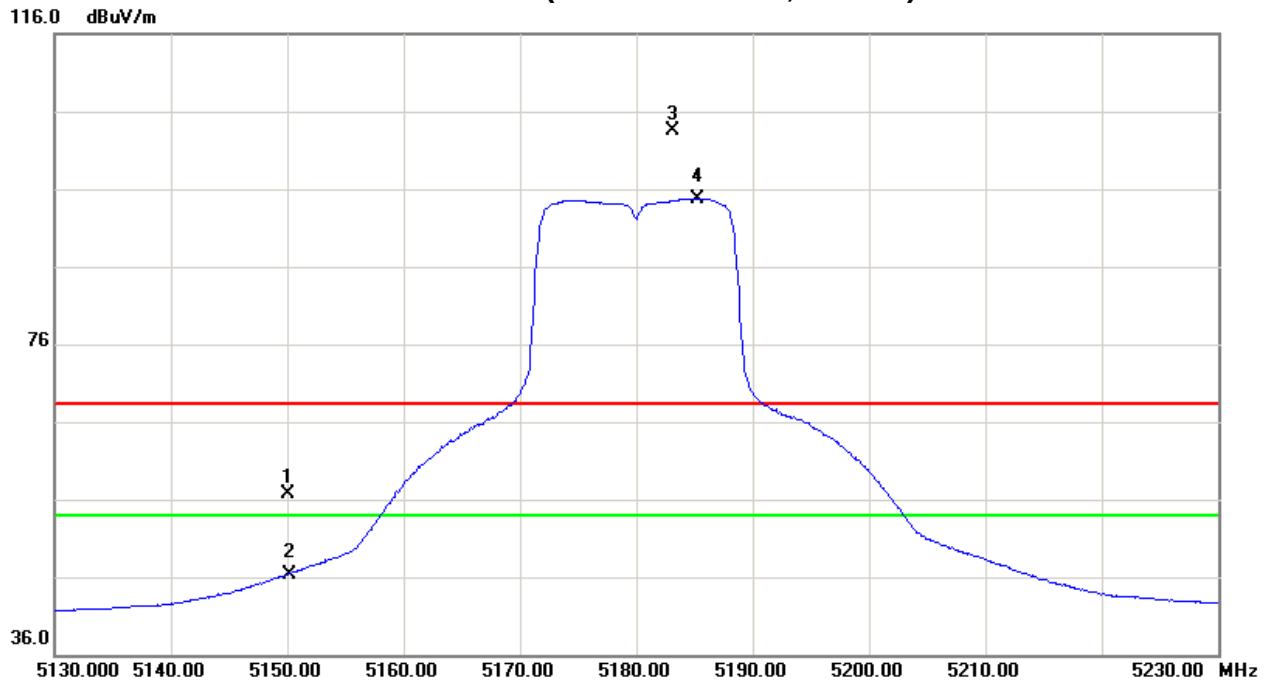
Test Mode :	Band 1/ TX A Mode 5240MHz
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Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5234.70	V	63.39	54.67	42.93	106.32	97.60	1.55	-7.17					X/F
10479.20	V	45.71	33.58	15.86	61.57	49.44	-43.20	-55.33	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5247.20	H	63.98	55.31	42.96	106.94	98.27	2.17	-6.50					X/F
10481.10	H	45.98	32.23	15.85	61.83	48.08	-42.94	-56.69	68.30	54.00	-27.00	-41.30	X/H

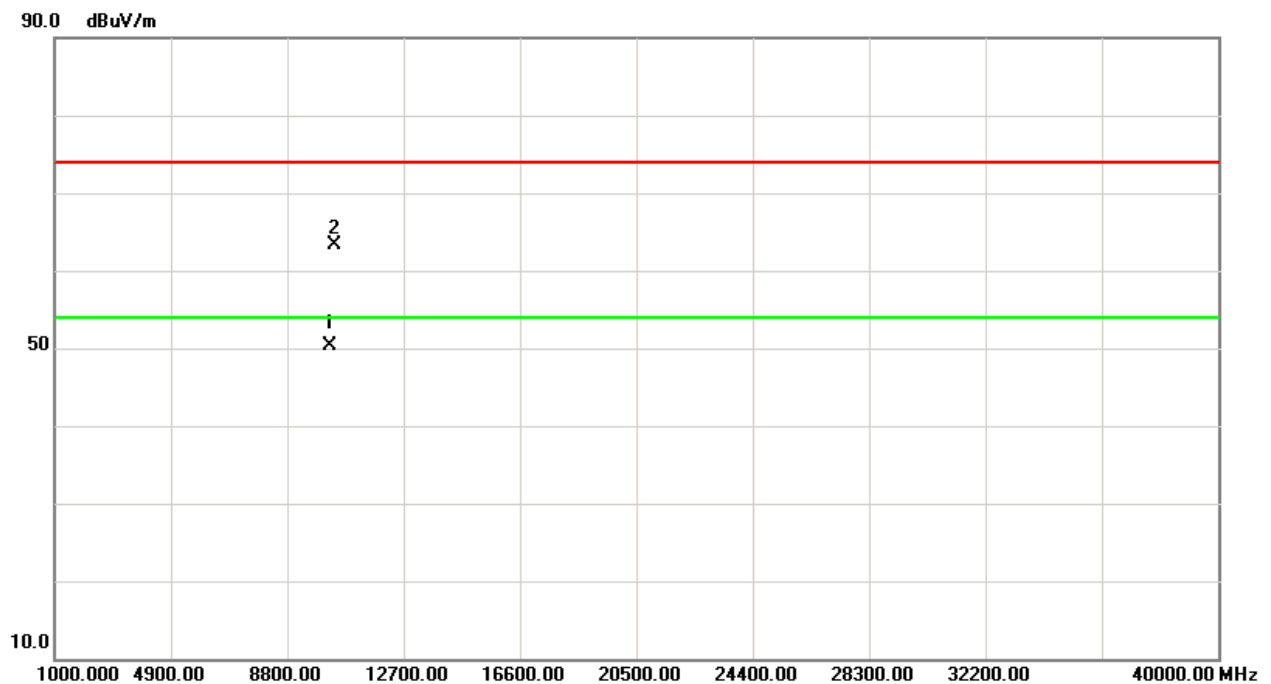
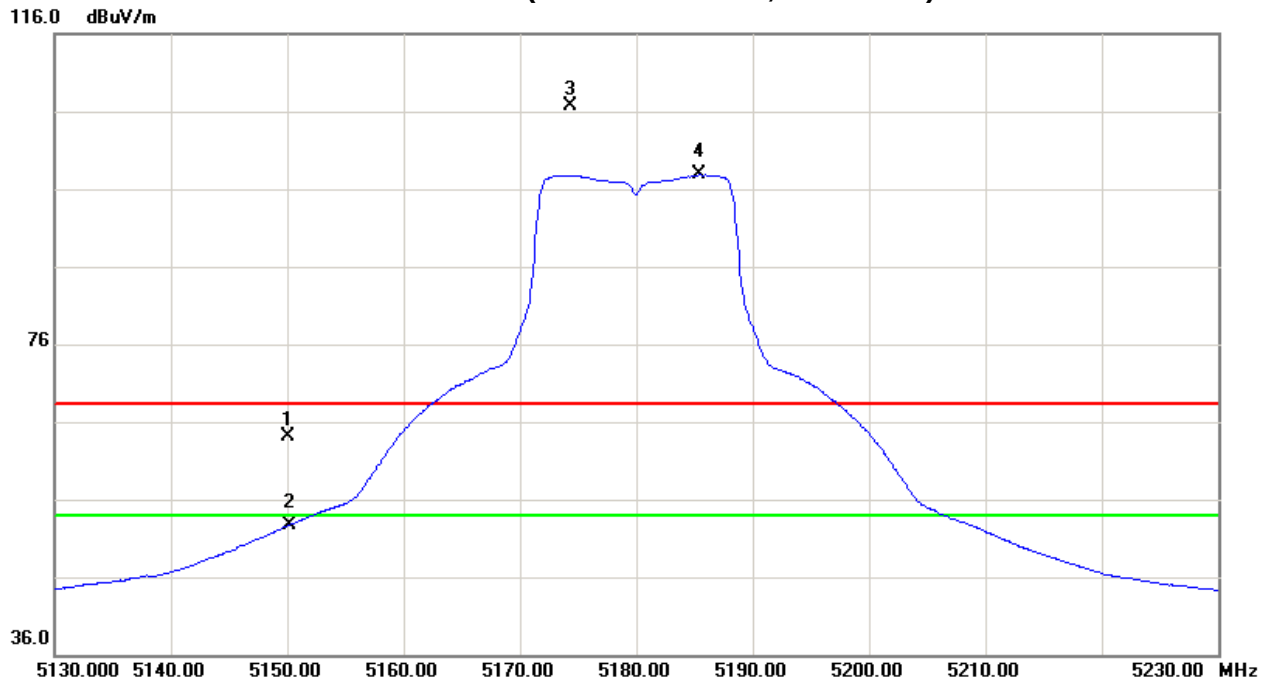


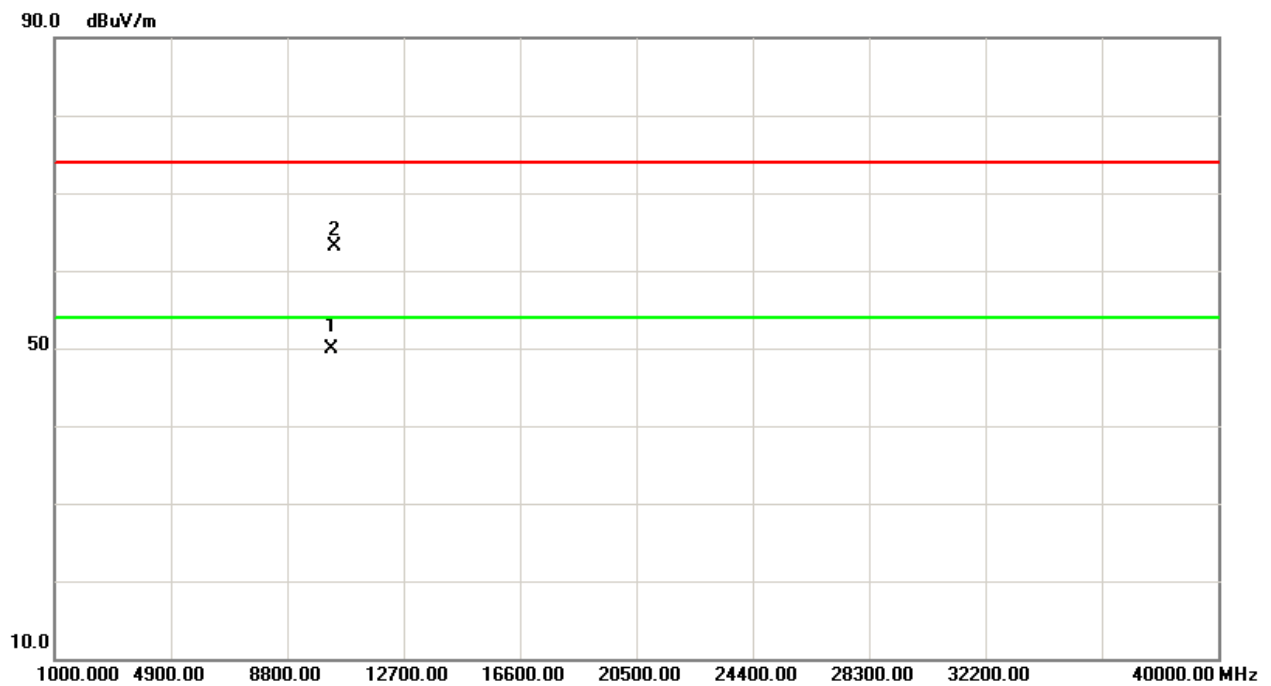
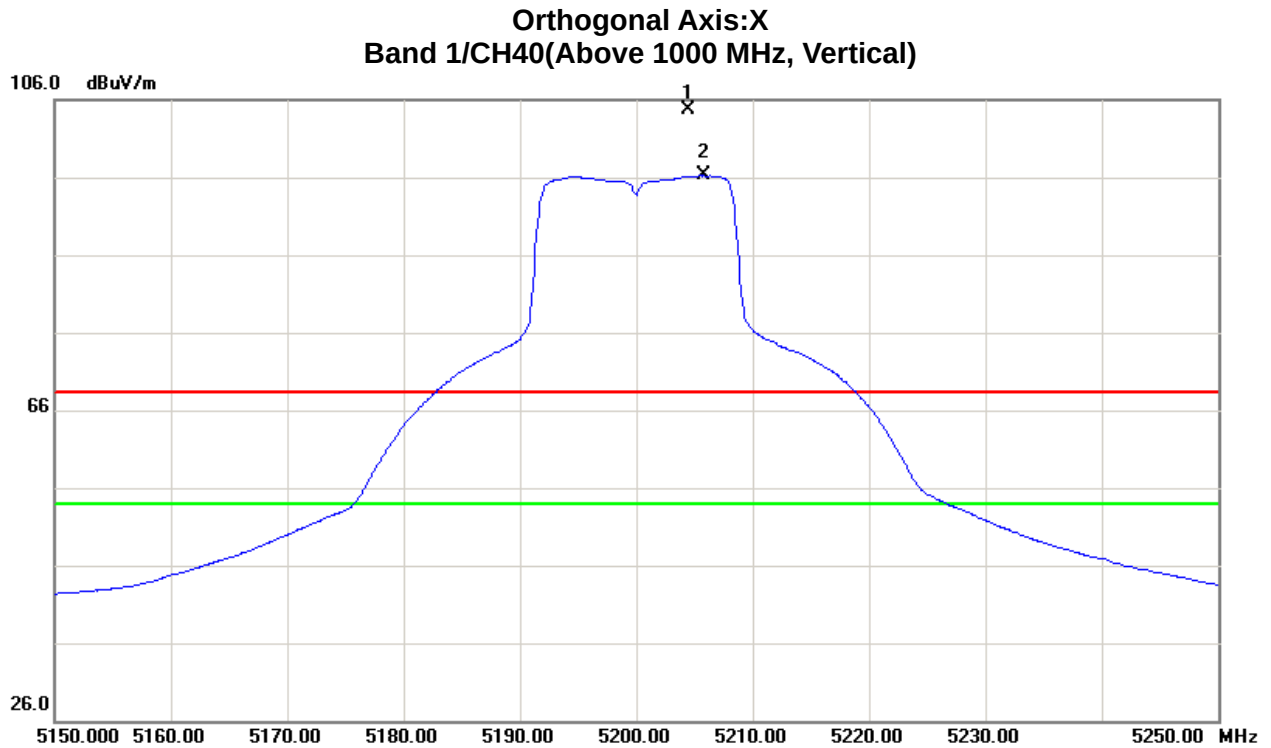
Orthogonal Axis:X
Band 1/CH36(Above 1000 MHz, Vertical)





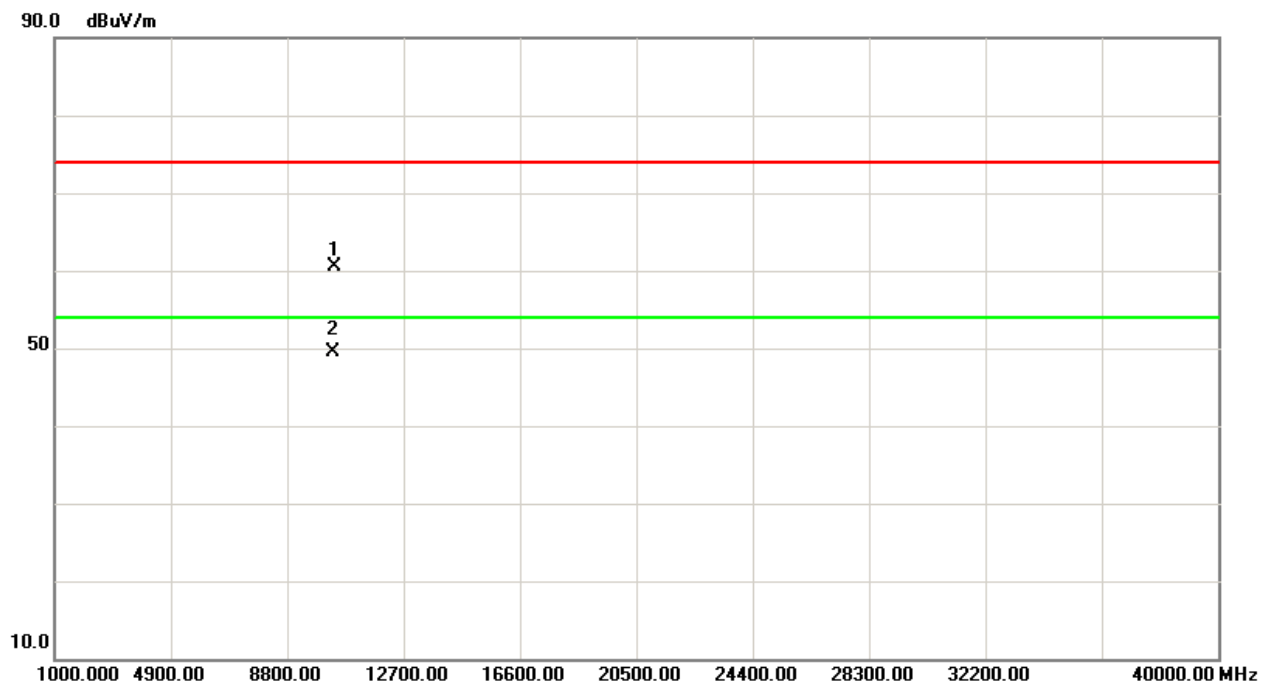
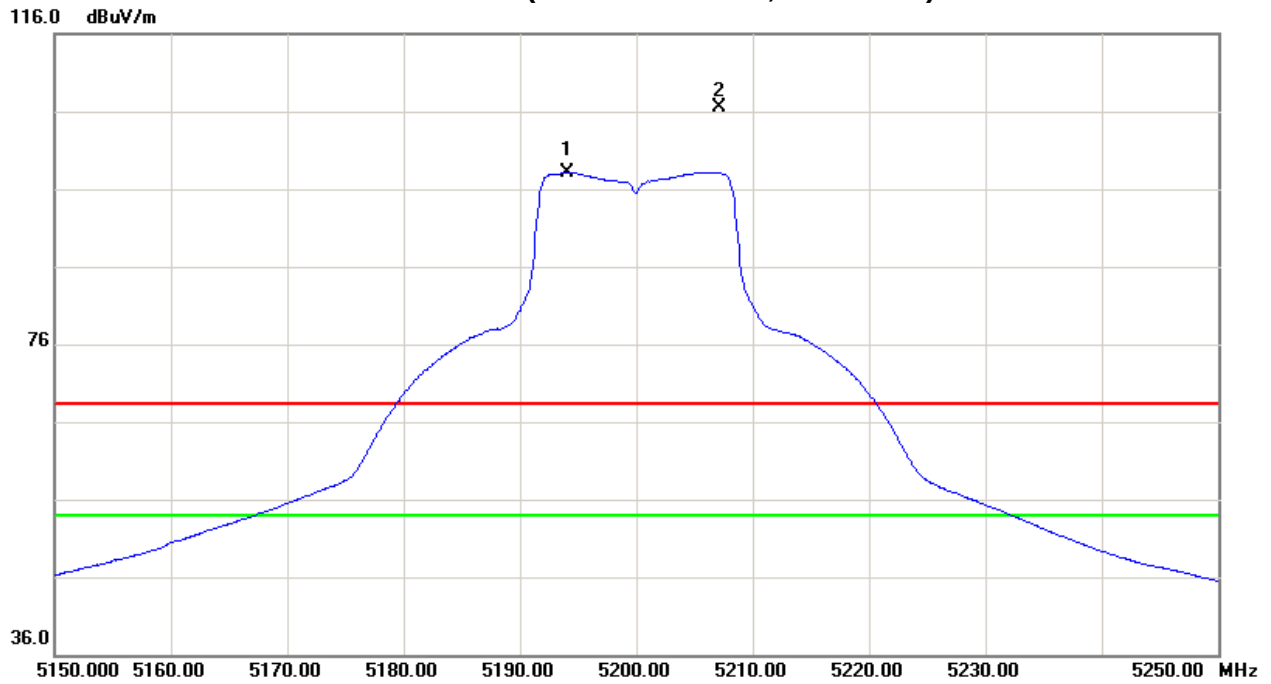
Orthogonal Axis:X
Band 1/CH36(Above 1000 MHz, Horizontal)







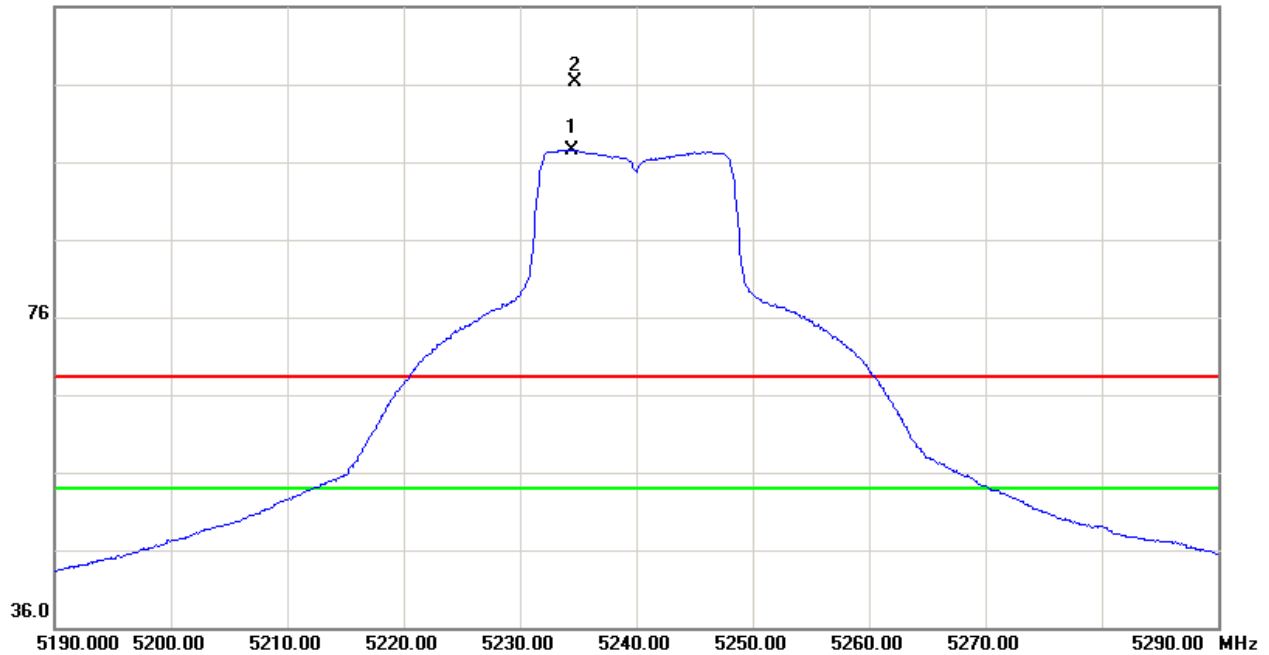
Orthogonal Axis:X
Band 1/CH40(Above 1000 MHz, Horizontal)



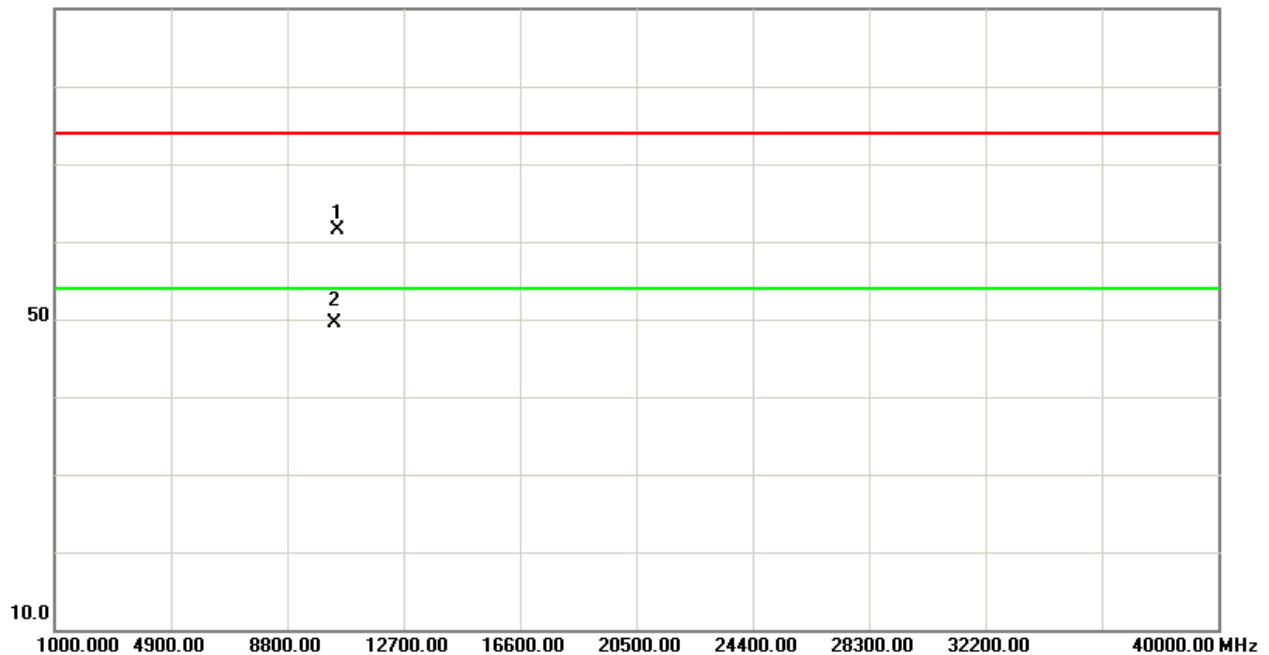


Orthogonal Axis:X
Band 1/CH48(Above 1000 MHz, Vertical)

116.0 dBuV/m

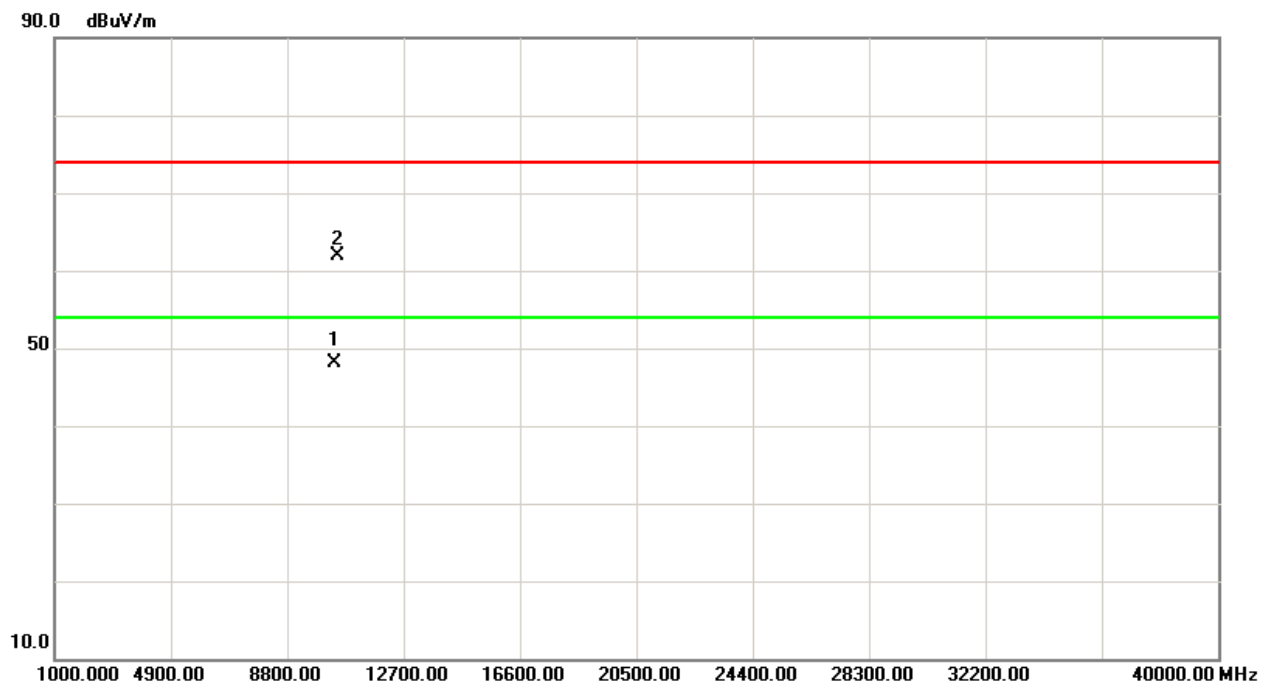
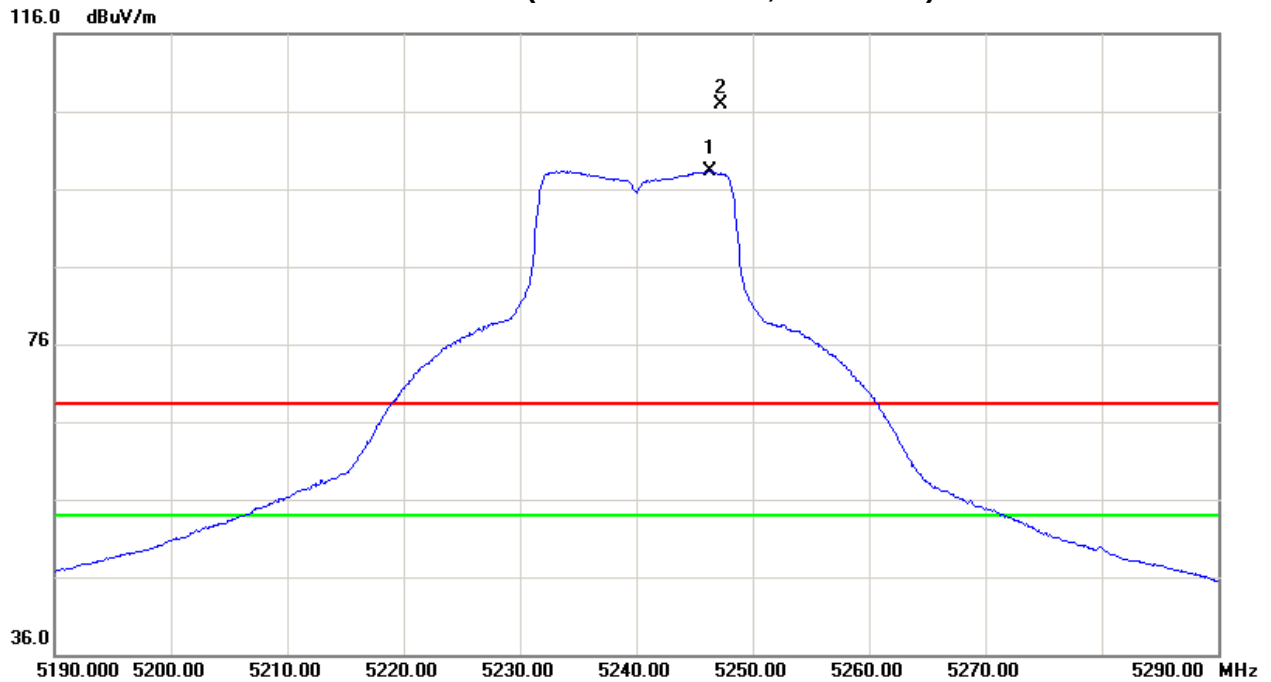


90.0 dBuV/m





Orthogonal Axis:X
Band 1/CH48(Above 1000 MHz, Horizontal)





Test Mode :	Band 1/ TX N20 Mode 5180MHz
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Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	V	17.37	4.37	42.72	60.09	47.09	-44.68	-57.68	68.30	54.00	-27.00	-41.30	X/E
5175.60	V	61.99	53.06	42.78	104.77	95.84	0.00	-8.93					X/F
10361.80	V	39.51	29.62	16.02	55.53	45.64	-49.24	-59.13	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	H	19.18	6.70	42.72	61.90	49.42	-42.87	-55.35	68.30	54.00	-27.00	-41.30	X/E
5175.30	H	63.10	54.10	42.78	105.88	96.88	1.11	-7.89					X/F
10360.00	H	38.98	29.65	16.03	55.01	45.68	-49.76	-59.09	68.30	54.00	-27.00	-41.30	X/H

Test Mode :	Band 1/ TX N20 Mode 5200MHz
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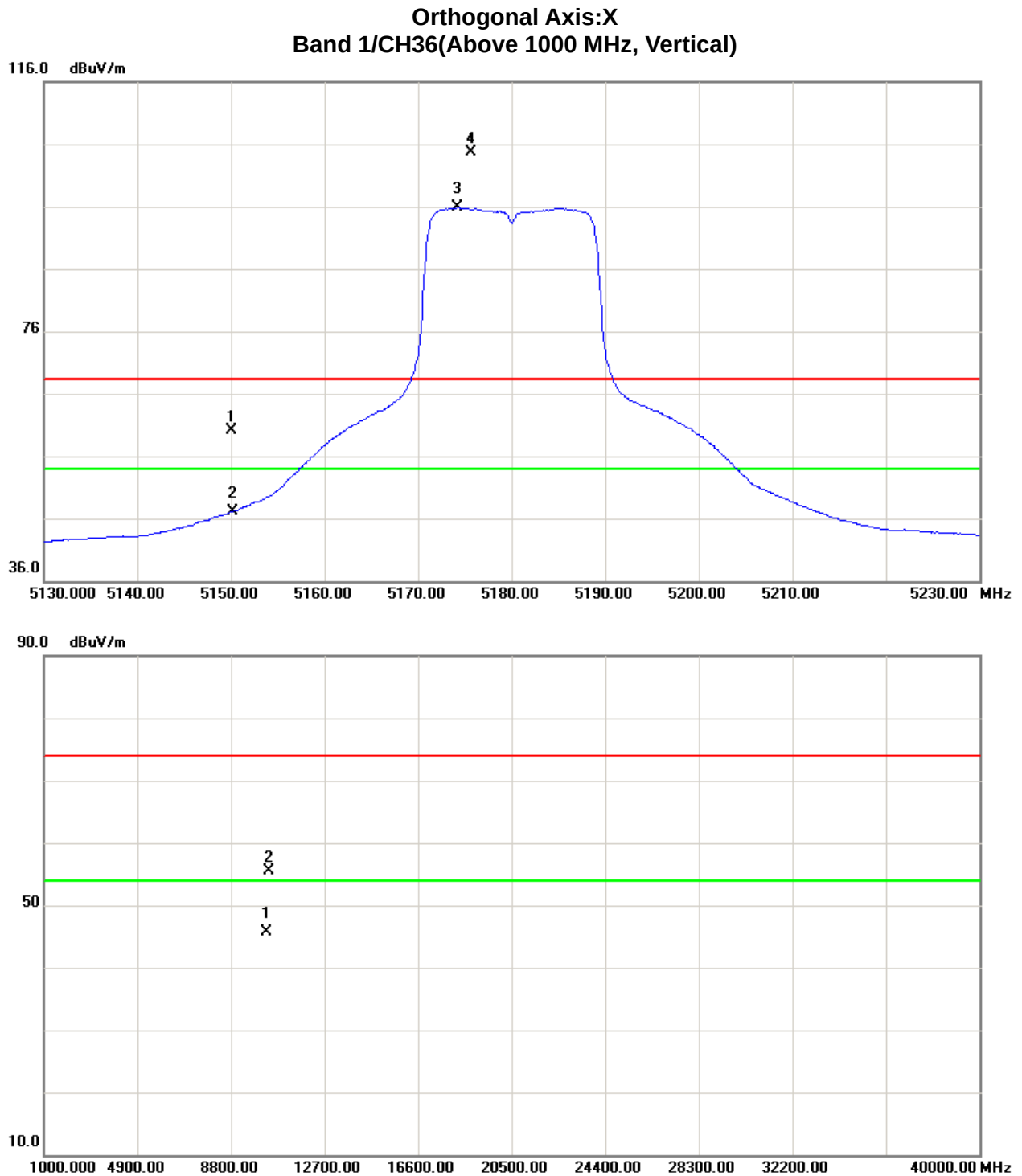
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5195.80	V	63.57	53.85	42.83	106.40	96.68	1.63	-8.09					X/F
10401.10	V	39.84	30.29	15.97	55.81	46.26	-48.96	-58.51	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5207.70	H	63.41	54.48	42.86	106.27	97.34	1.50	-7.43					X/F
10399.50	H	40.48	29.76	15.97	56.45	45.73	-48.32	-59.04	68.30	54.00	-27.00	-41.30	X/H

Test Mode :	Band 1/ TX N20 Mode 5240MHz
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Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5243.40	V	62.91	53.99	42.95	105.86	96.94	1.09	-7.83					X/F
10481.50	V	40.82	31.78	15.85	56.67	47.63	-48.10	-57.14	68.30	54.00	-27.00	-41.30	X/H

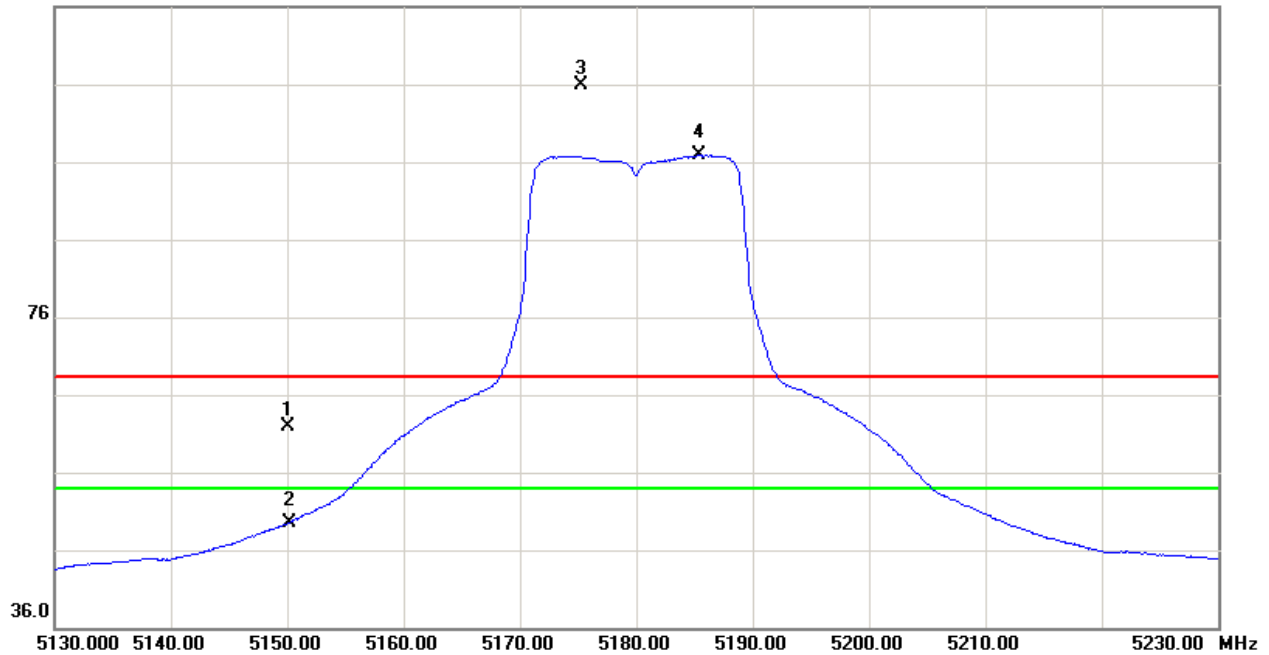
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBUV/m)		Act.(dBm)		Limit(dBUV/m)		Limit(dBm)		Note
		Peak (dBUV)	AV (dBUV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5234.40	H	63.94	54.85	42.93	106.87	97.78	2.10	-6.99					X/F
10479.30	H	39.63	29.84	15.86	55.49	45.70	-49.28	-59.07	68.30	54.00	-27.00	-41.30	X/H



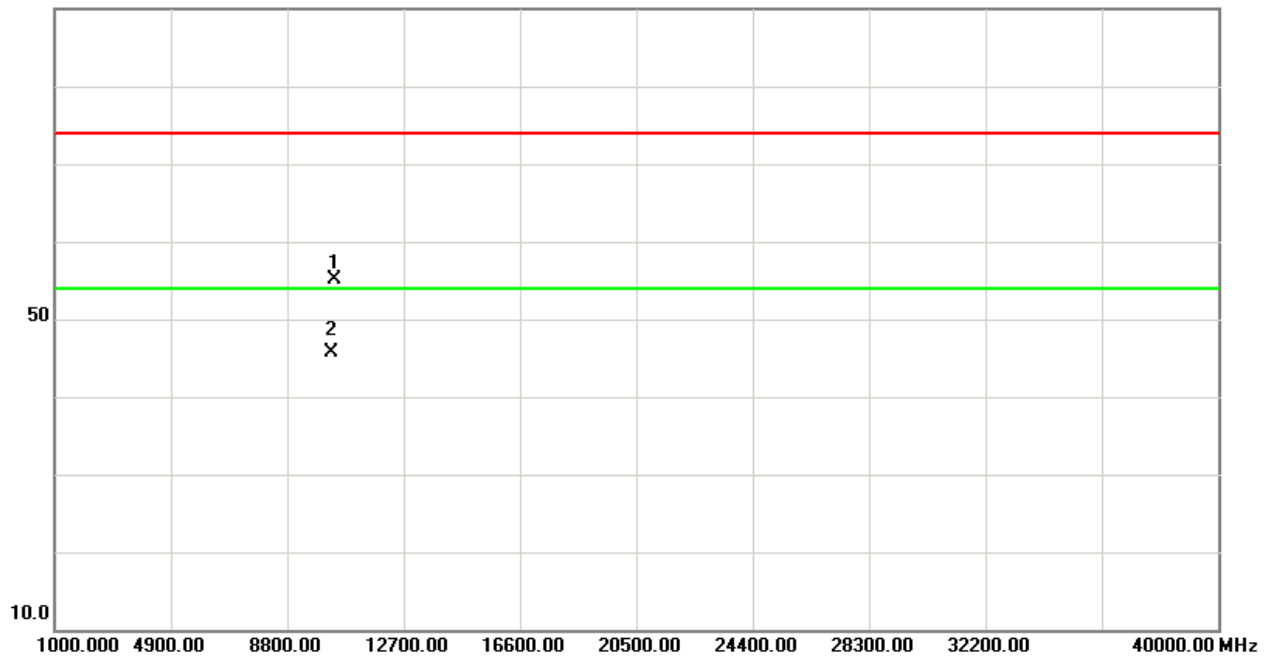


Orthogonal Axis:X
Band 1/CH36(Above 1000 MHz, Horizontal)

116.0 dBuV/m

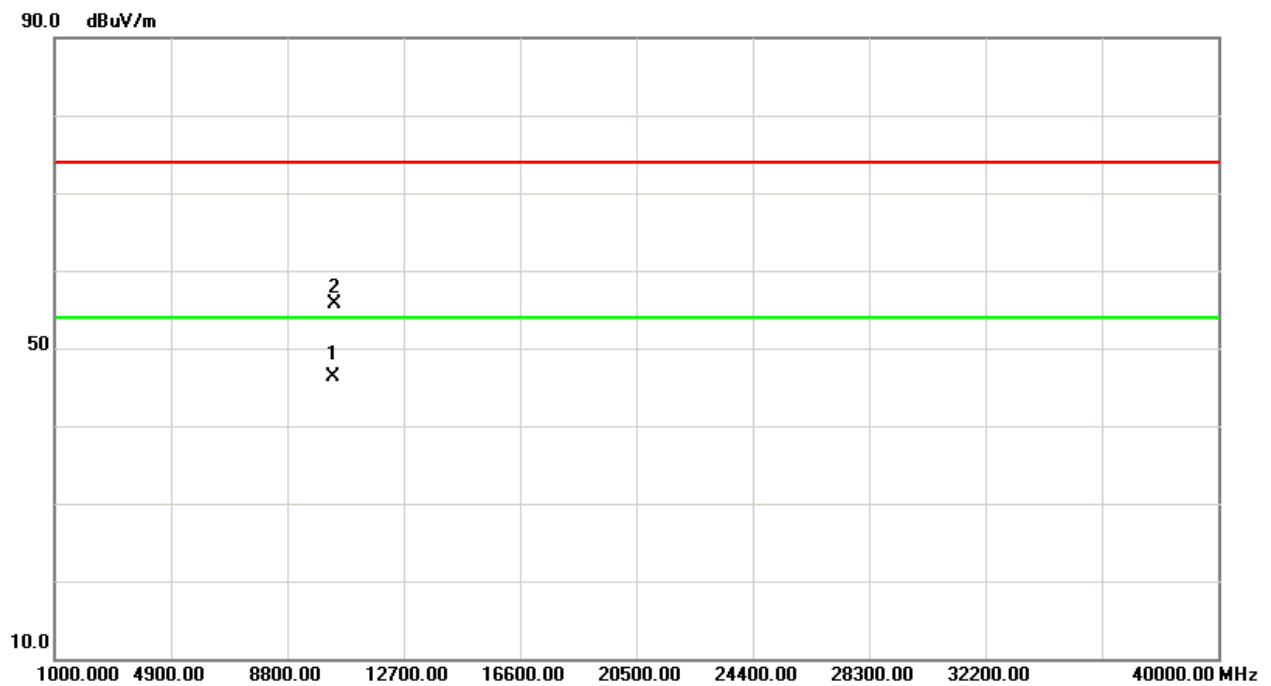
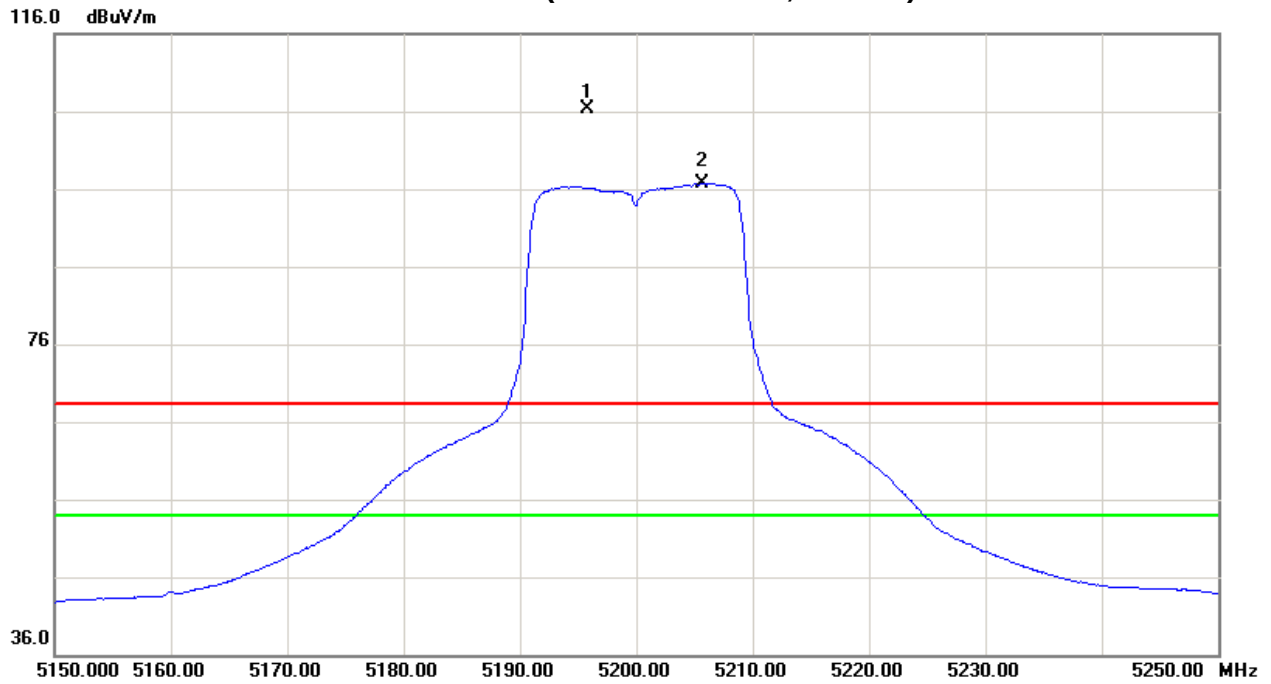


90.0 dBuV/m





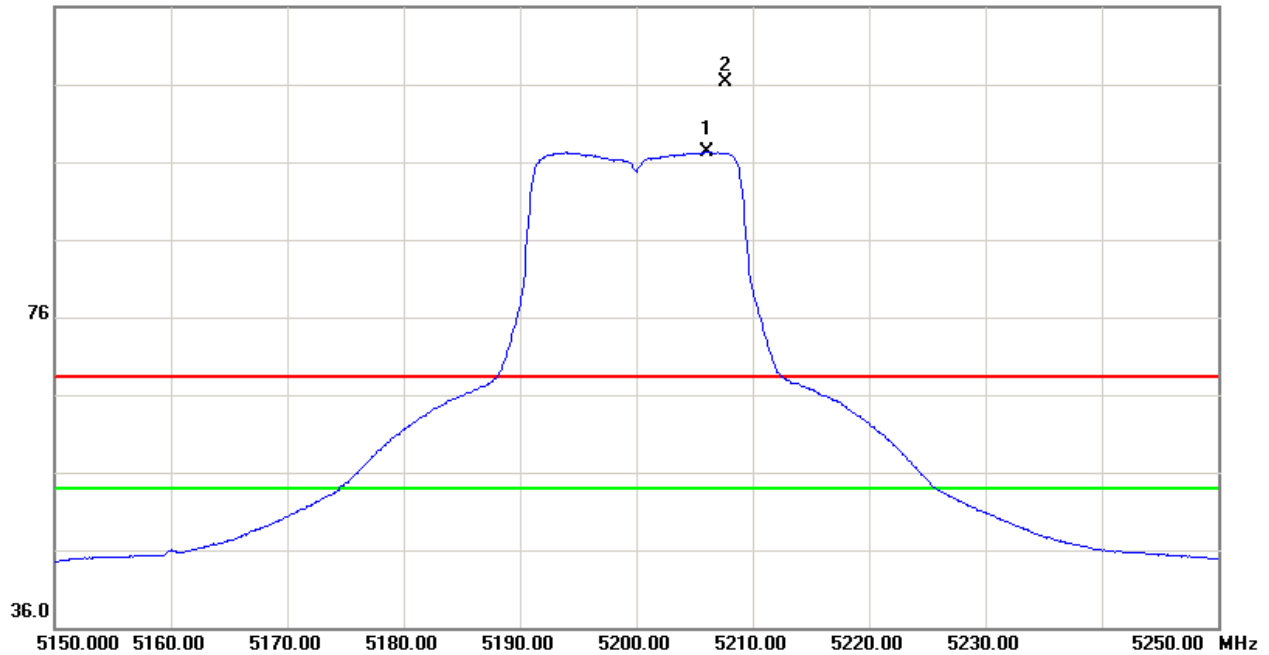
Orthogonal Axis:X
Band 1/CH40(Above 1000 MHz, Vertical)



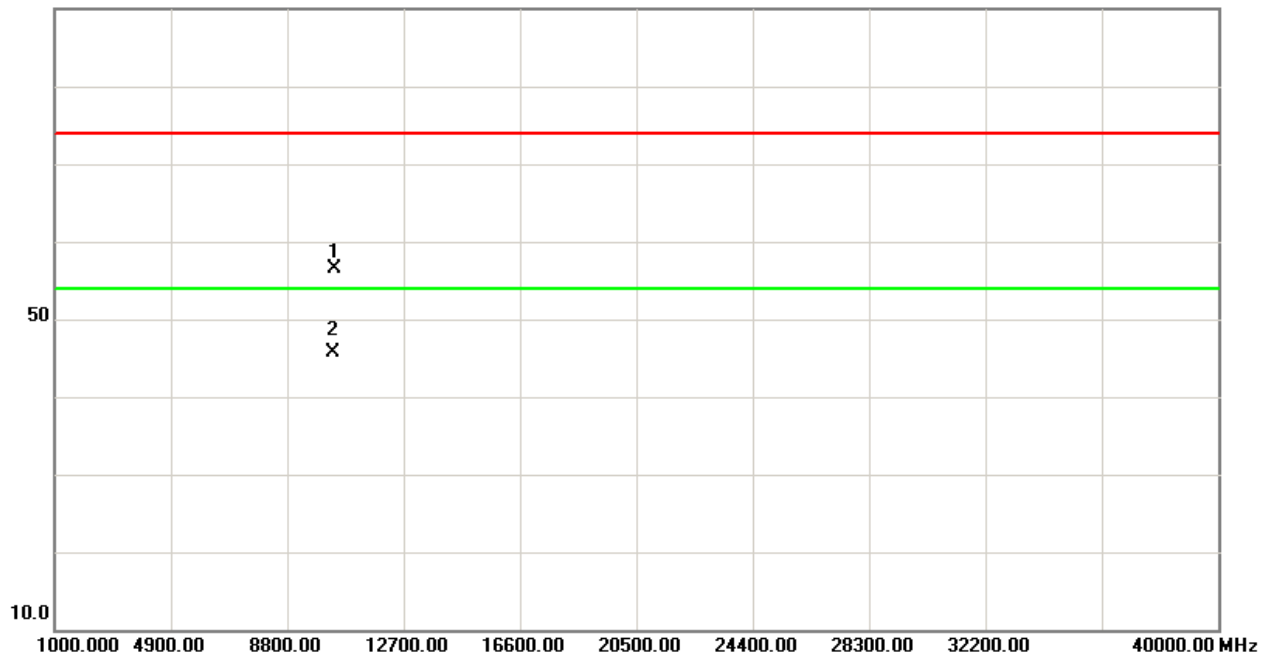


Orthogonal Axis:X
Band 1/CH40(Above 1000 MHz, Horizontal)

116.0 dBuV/m

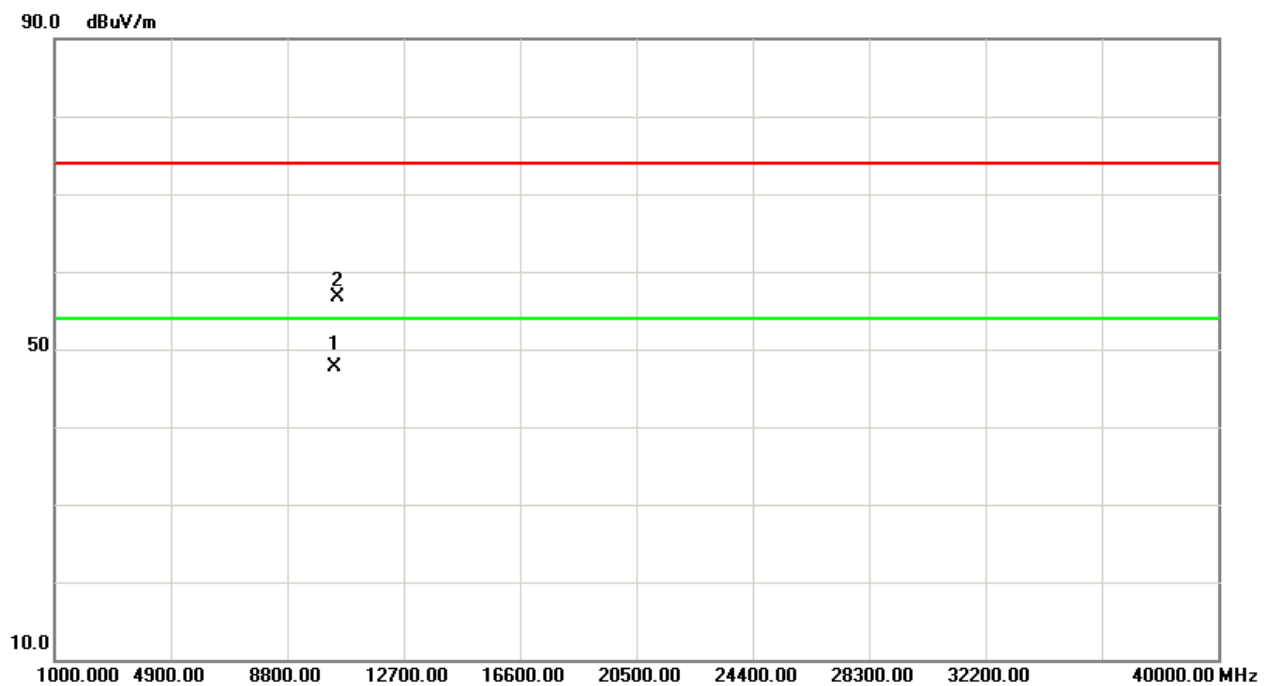
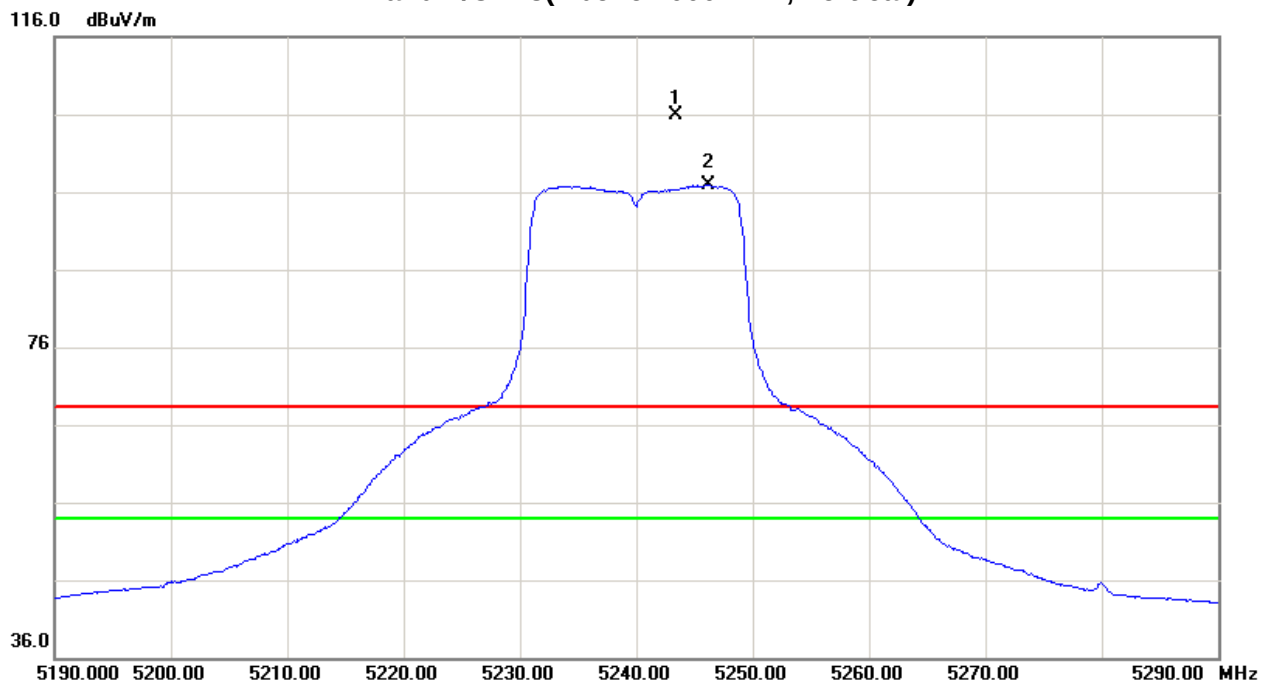


90.0 dBuV/m





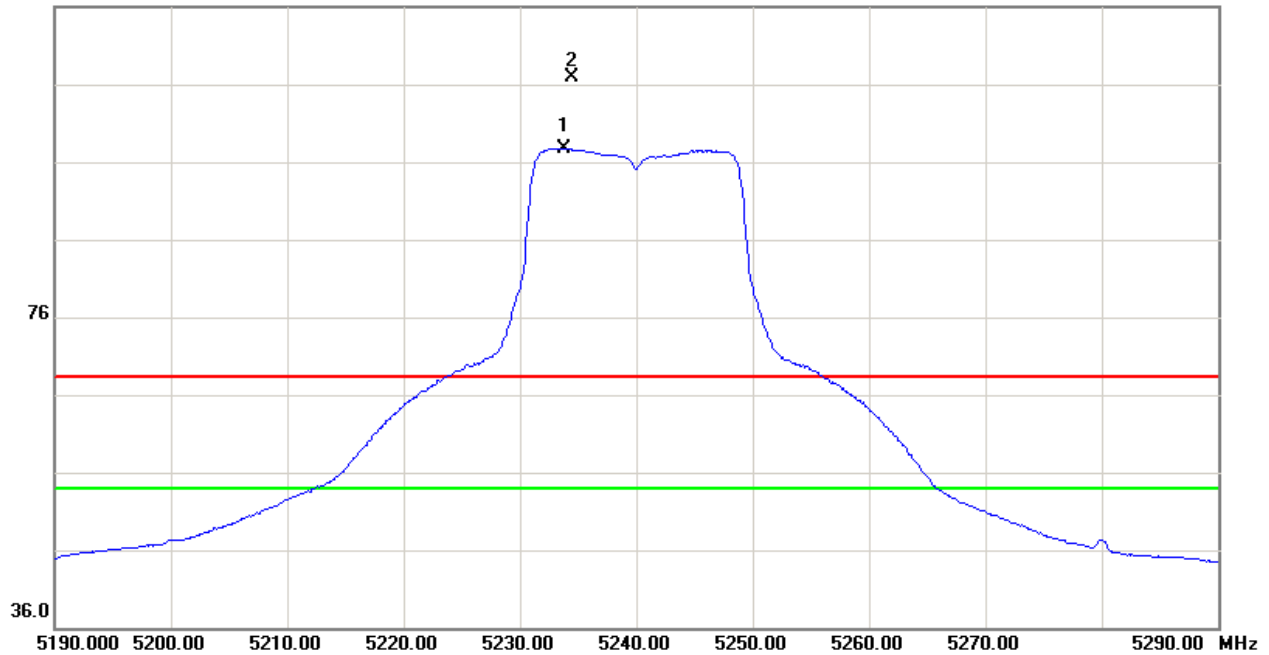
Orthogonal Axis:X
Band 1/CH48(Above 1000 MHz, Vertical)



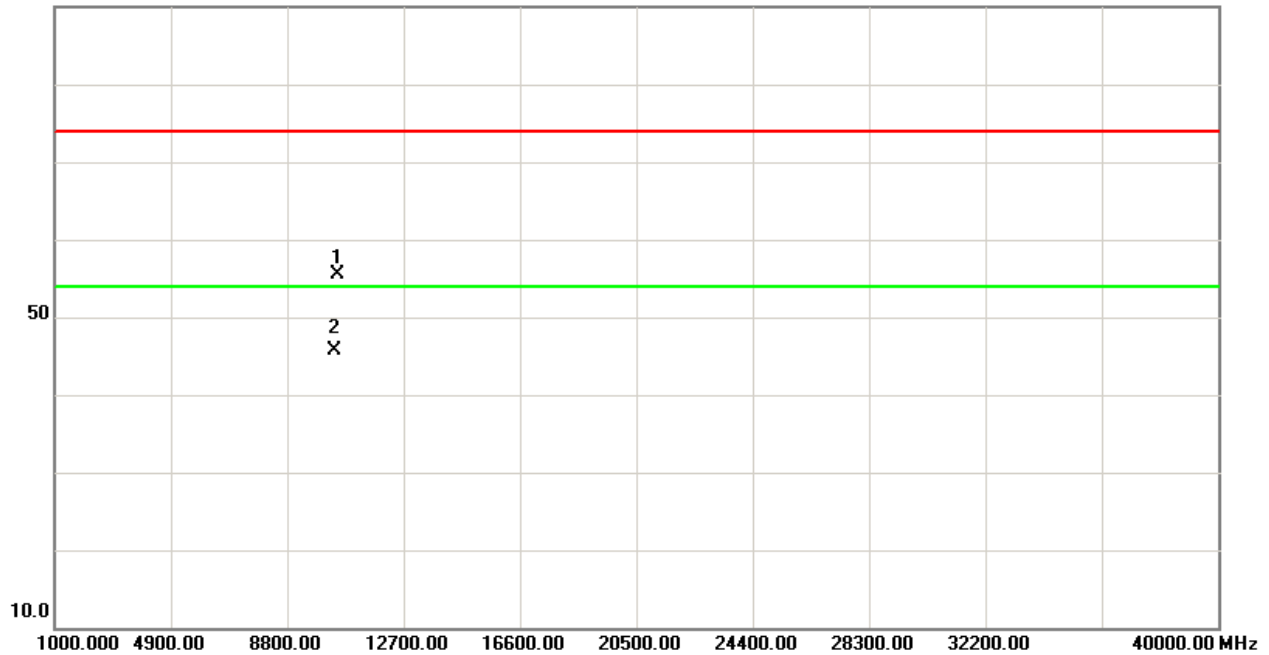


Orthogonal Axis:X
Band 1/CH48(Above 1000 MHz, Horizontal)

116.0 dBuV/m



90.0 dBuV/m





Test Mode : Band 1/ TX N40 Mode 5190MHz

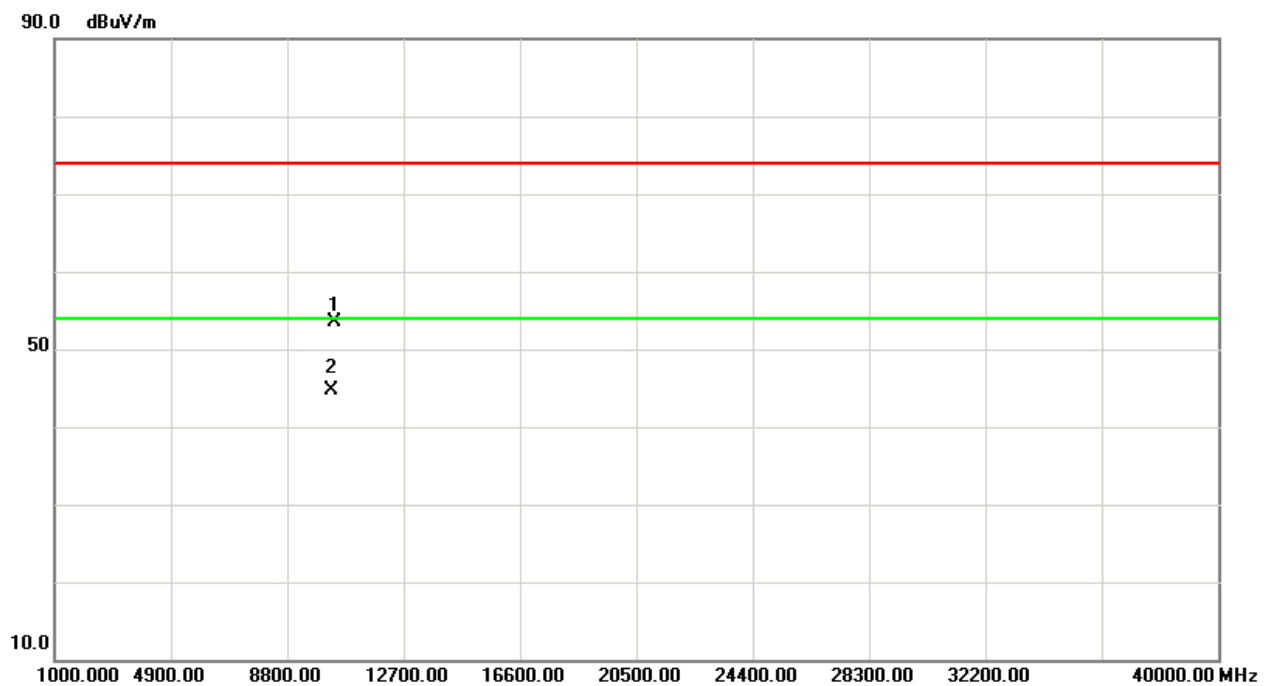
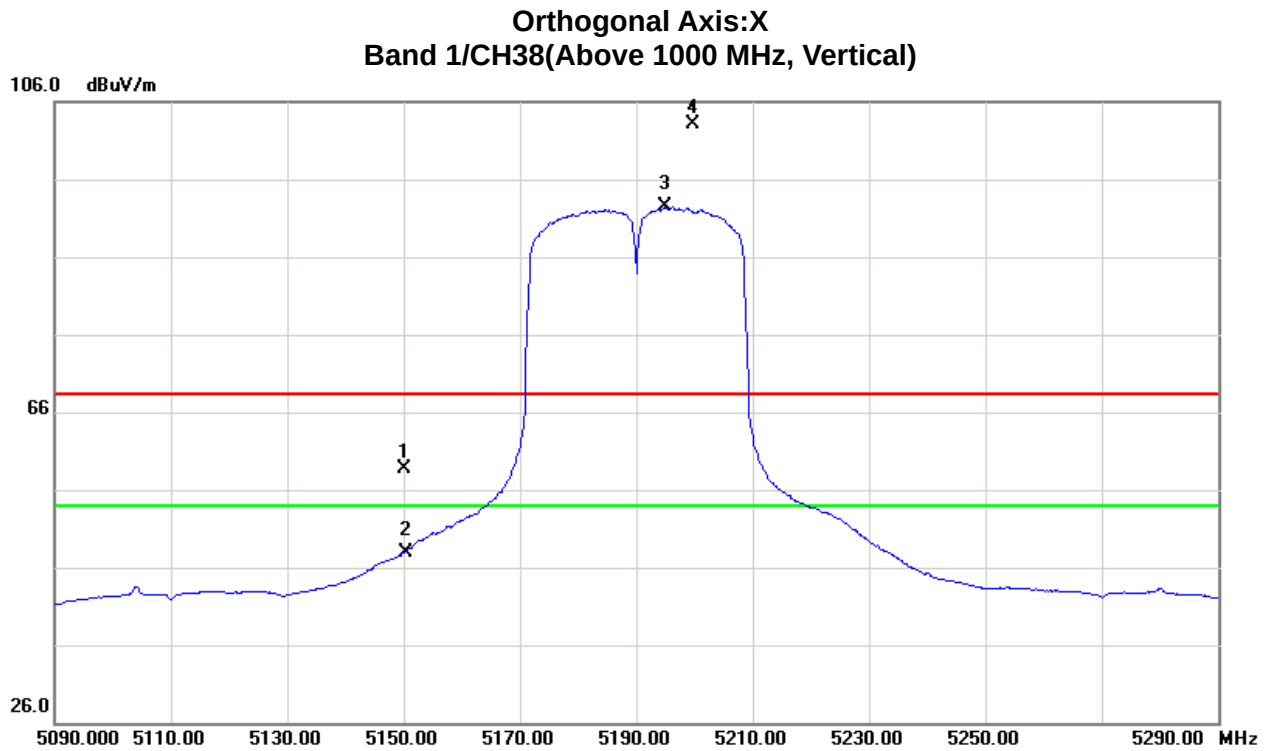
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	V	16.05	5.15	42.72	58.77	47.87	-46.00	-56.90	68.30	54.00	-27.00	-41.30	X/E
5199.80	V	60.31	49.61	42.84	103.15	92.45	-1.62	-12.32					X/F
10380.10	V	37.59	28.67	16.00	53.59	44.67	-51.18	-60.10	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5150.00	H	19.70	8.42	42.72	62.42	51.14	-42.35	-53.63	68.30	54.00	-27.00	-41.30	X/E
5185.00	H	63.32	51.82	42.81	106.13	94.63	1.36	-10.14					X/F
10380.20	H	36.47	28.63	16.00	52.47	44.63	-52.30	-60.14	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 1/ TX N40 Mode 5230MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5232.80	V	61.88	51.96	42.92	104.80	94.88	0.03	-9.89					X/F
10460.90	V	37.89	30.58	15.88	53.77	46.46	-51.00	-58.31	68.30	54.00	-27.00	-41.30	X/H

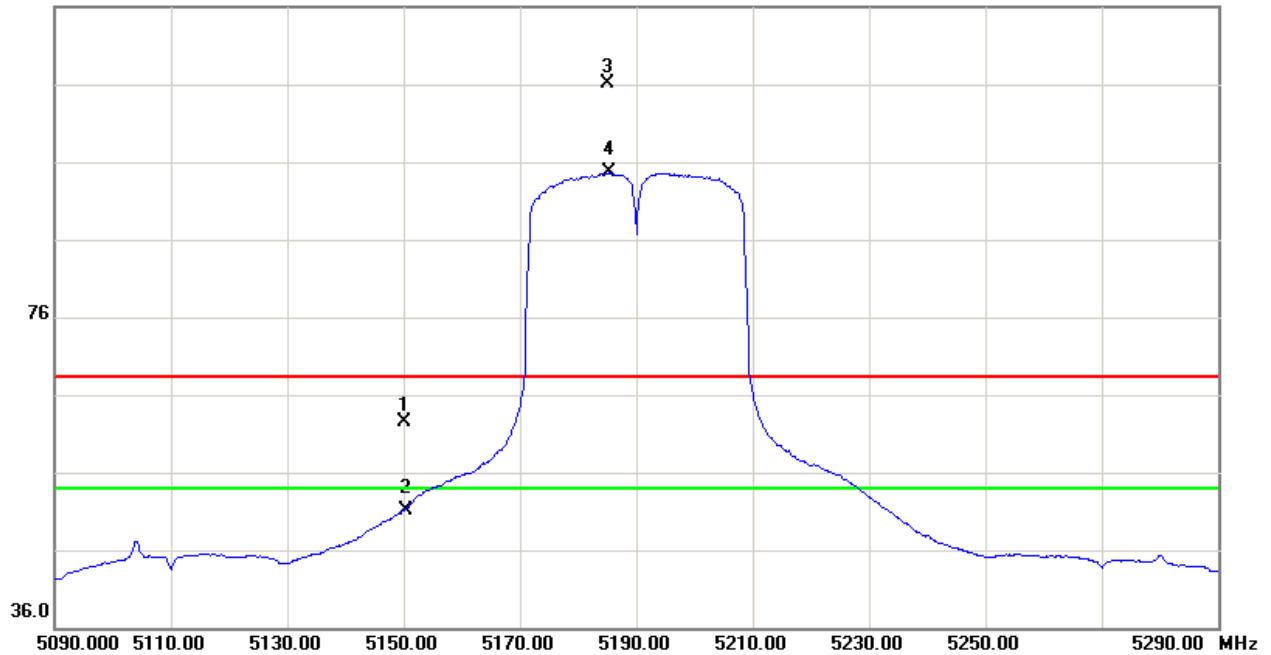
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5223.80	H	63.87	53.00	42.90	106.77	95.90	2.00	-8.87					X/F
10460.40	H	38.24	28.61	15.88	54.12	44.49	-50.65	-60.28	68.30	54.00	-27.00	-41.30	X/H



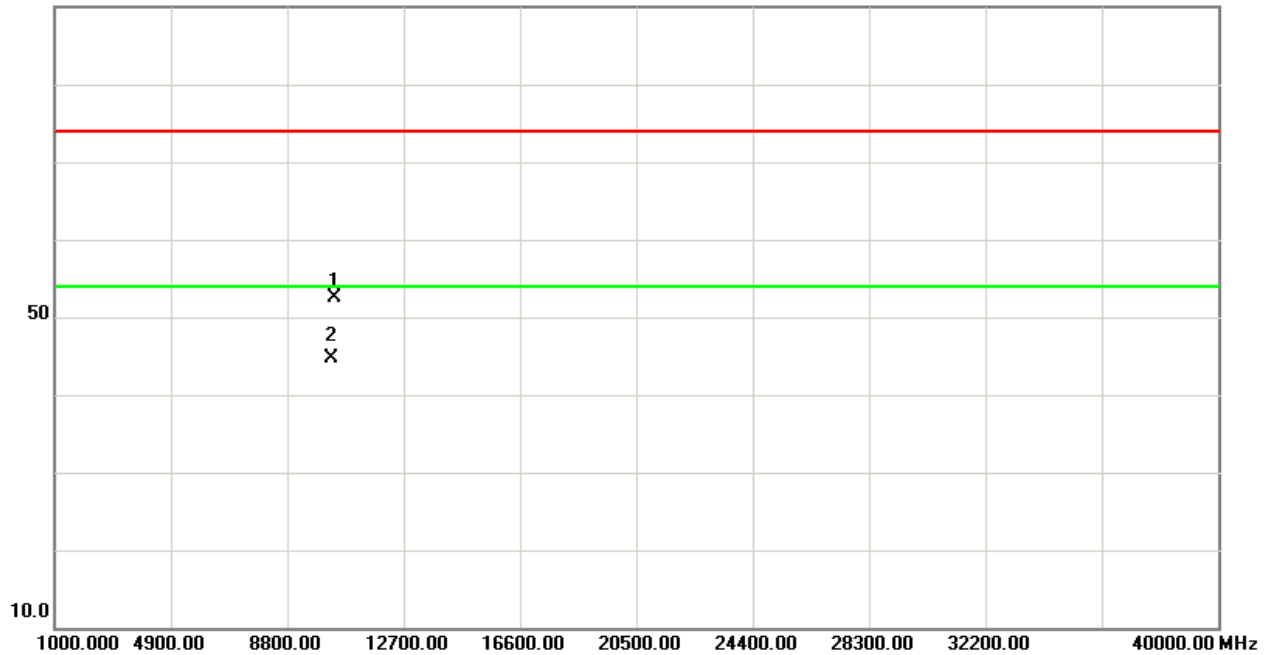


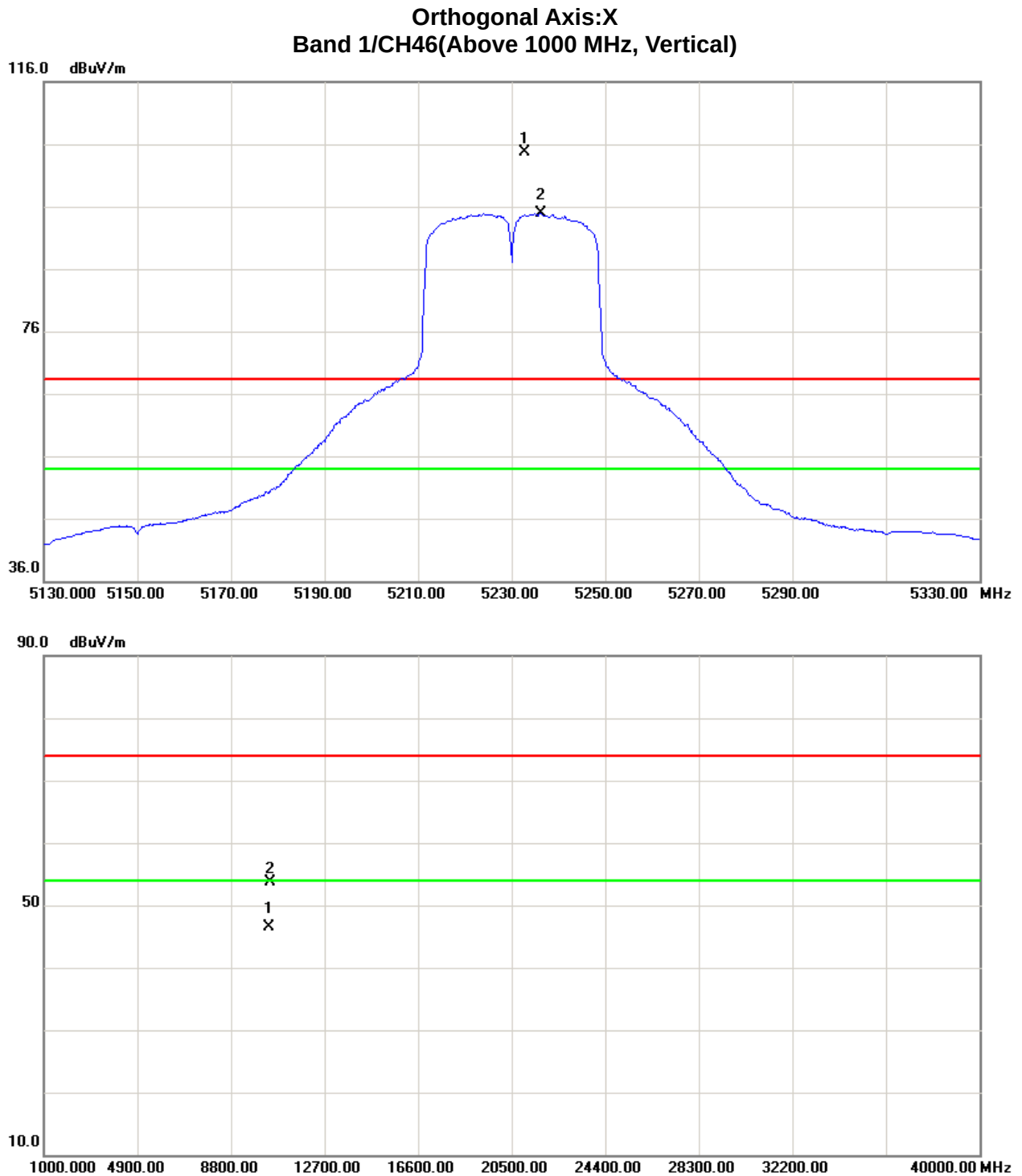
Orthogonal Axis:X
Band 1/CH38(Above 1000 MHz, Horizontal)

116.0 dBuV/m



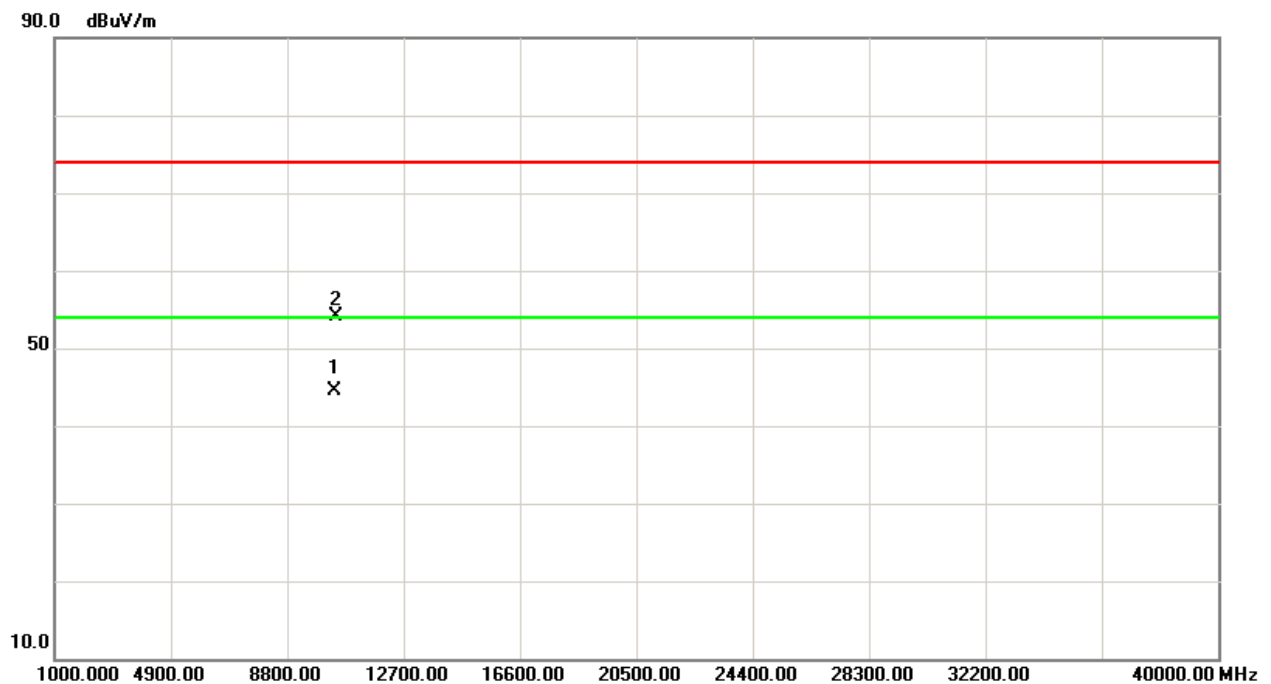
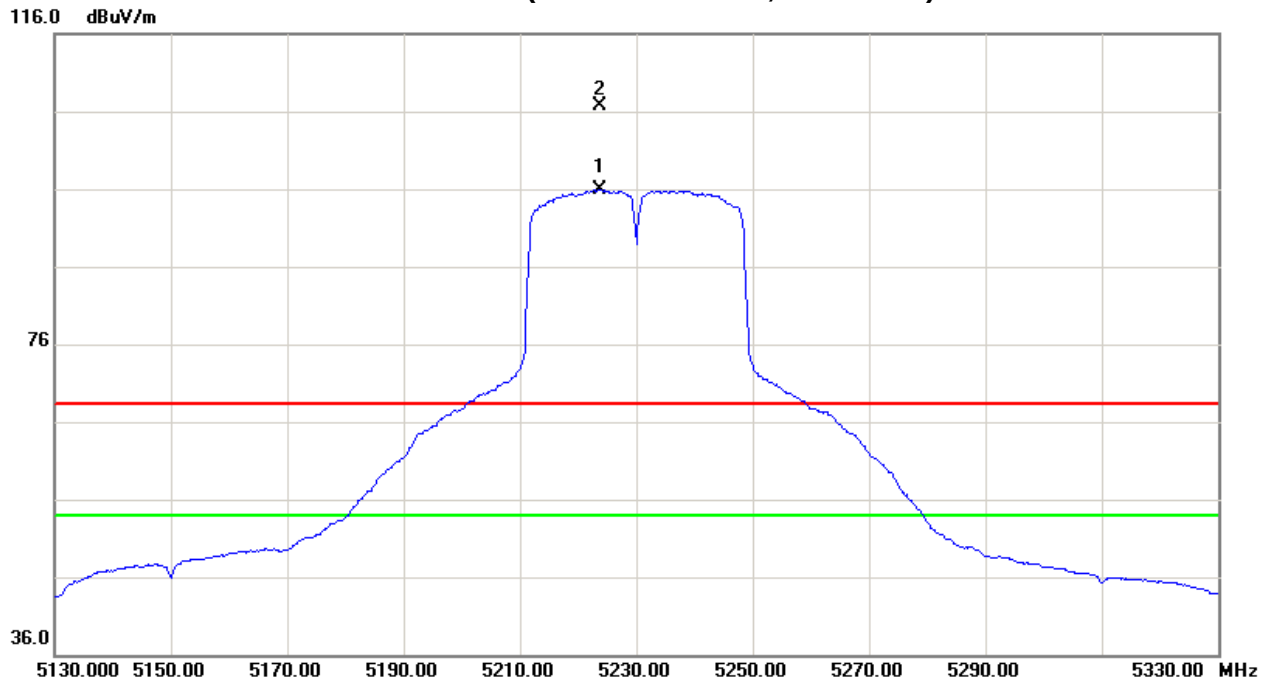
90.0 dBuV/m







Orthogonal Axis:X
Band 1/CH46(Above 1000 MHz, Horizontal)





Test Mode : Band 2/ TX A Mode 5260MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5265.20	V	64.80	55.88	43.00	107.80	98.88	3.03	-5.89					X/F
10519.50	V	45.44	35.96	15.88	61.32	51.84	-43.45	-52.93	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5253.40	H	64.75	55.98	42.98	107.73	98.96	2.96	-5.81					X/F
10520.00	H	46.67	32.78	15.88	62.55	48.66	-42.22	-56.11	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 2/ TX A Mode 5280MHz

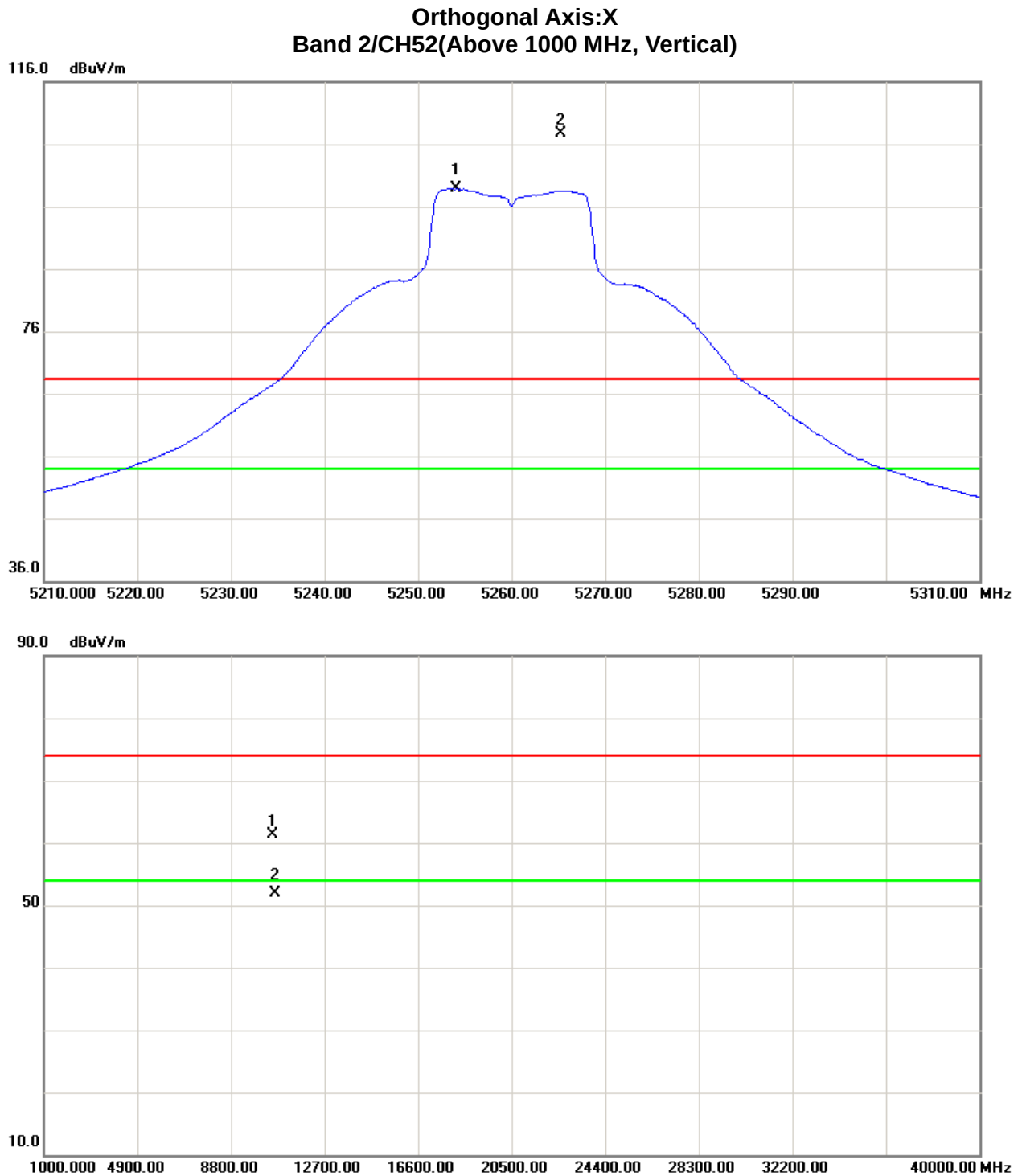
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5273.00	V	63.95	54.81	43.02	106.97	97.83	2.20	-6.94					X/F
10561.80	V	43.53	37.12	15.99	59.52	53.11	-45.25	-51.66	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5273.50	H	64.53	55.71	43.03	107.56	98.74	2.79	-6.03					X/F
10561.40	H	44.89	32.79	16.00	60.89	48.79	-43.88	-55.98	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 2/ TX A Mode 5320MHz

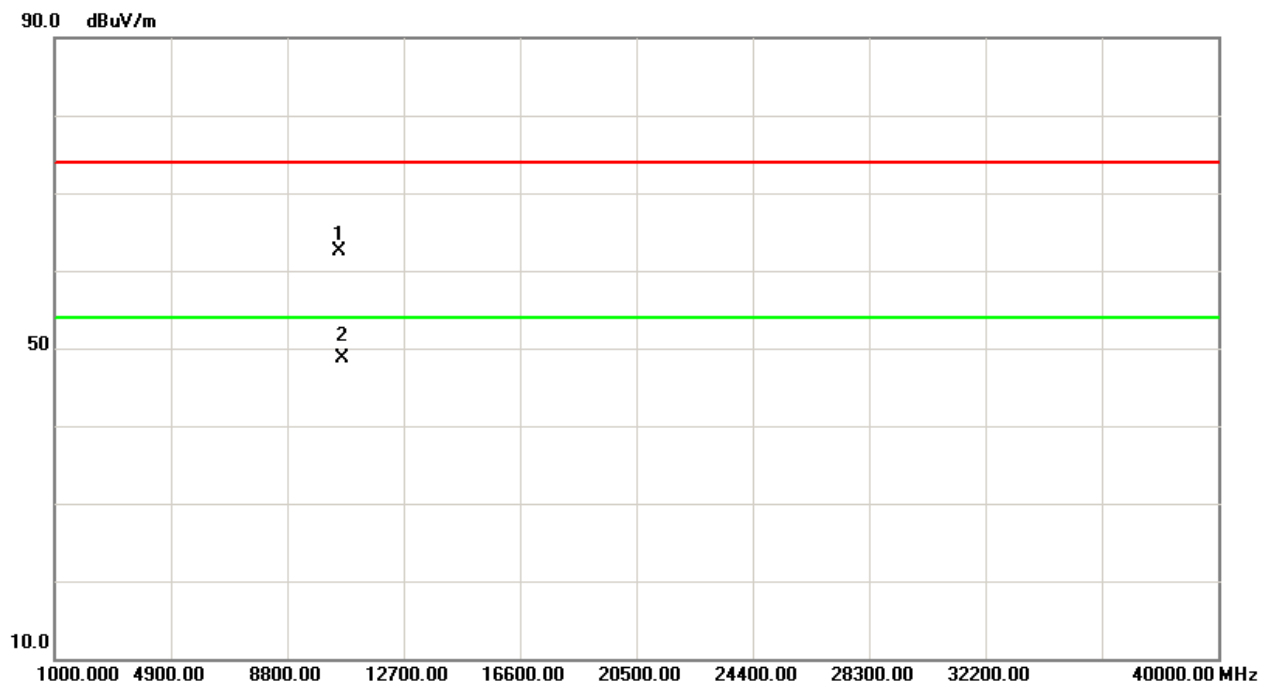
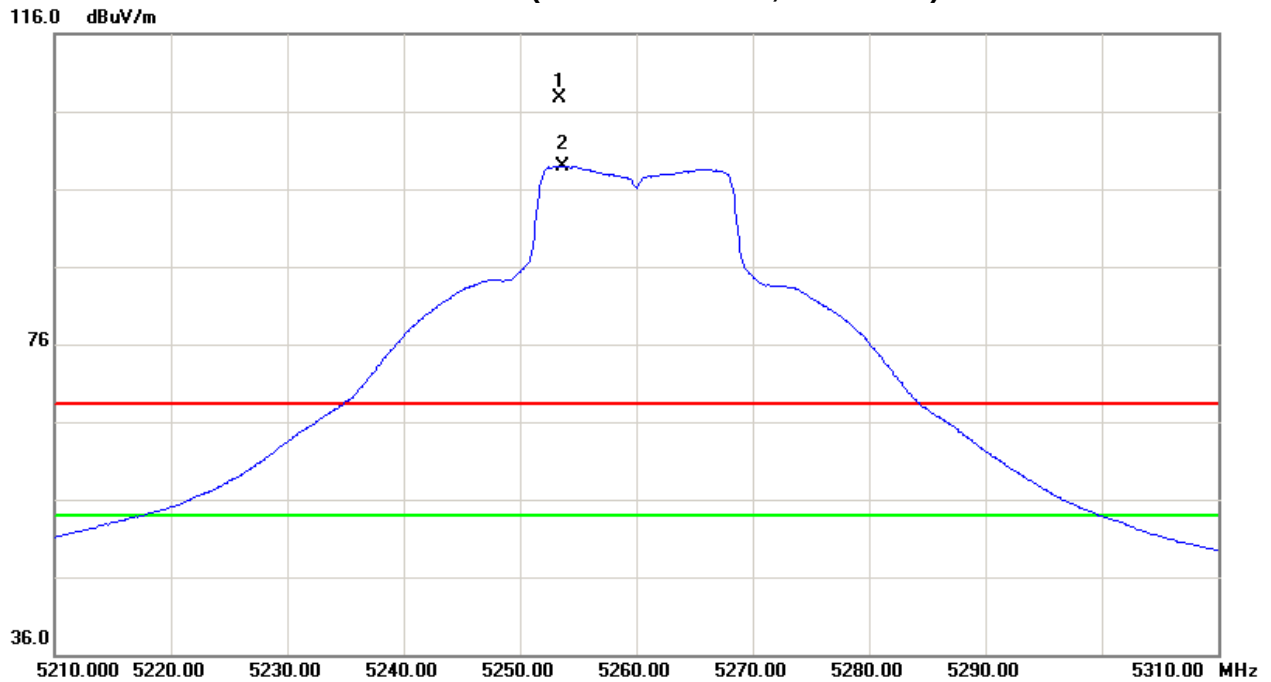
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5326.50	V	61.60	53.92	43.15	104.75	97.07	-0.02	-7.70					X/F
5350.00	V	18.03	7.37	43.21	61.24	50.58	-43.53	-54.19	68.30	54.00	-27.00	-41.30	X/E
10641.40	V	44.12	35.86	16.23	60.35	52.09	-44.42	-52.68	68.30	54.00	-27.00	-41.30	X/H

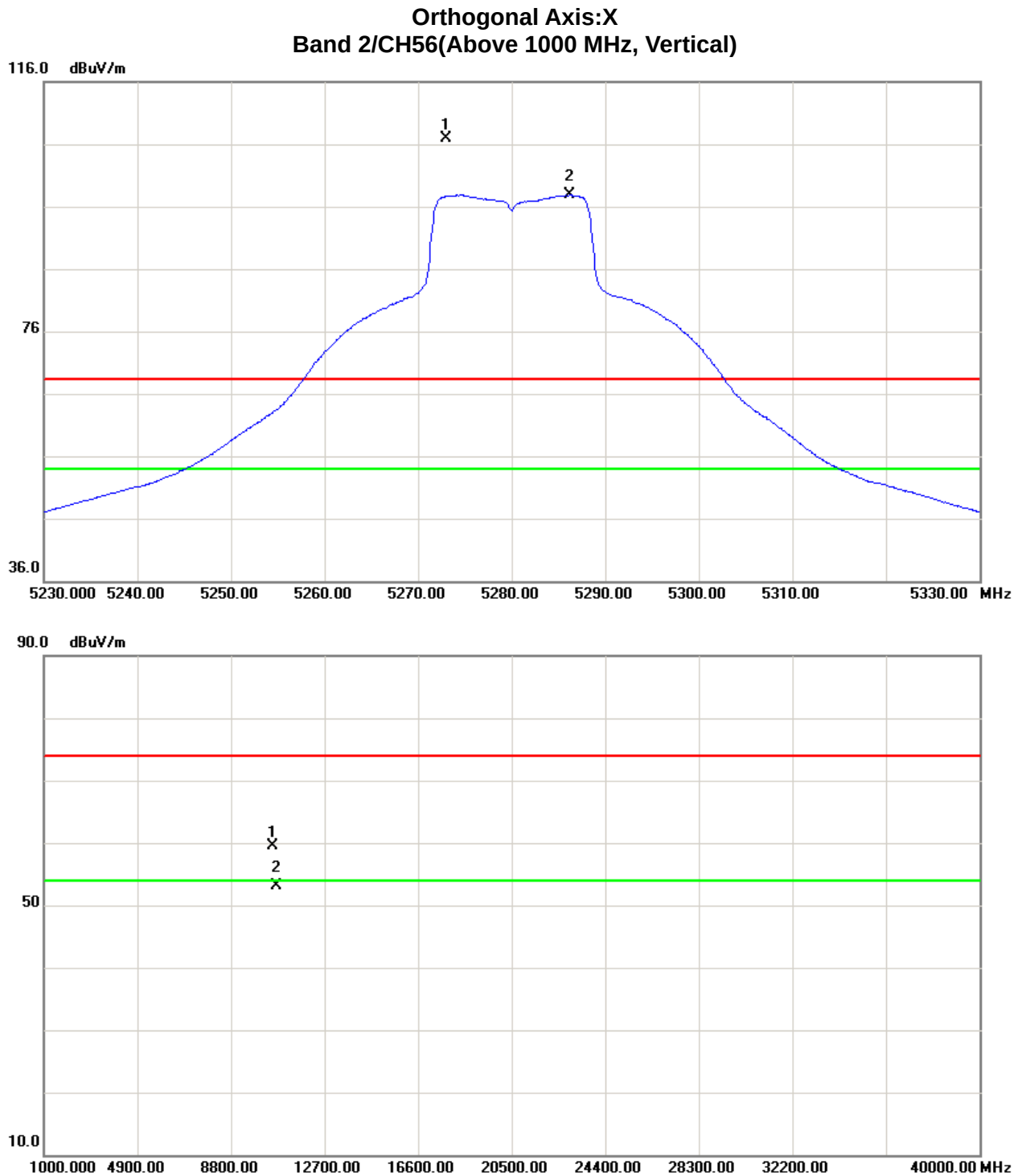
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5322.40	H	63.46	55.10	43.15	106.61	98.25	1.84	-6.52					X/F
5350.00	H	20.64	9.70	43.21	63.85	52.91	-40.92	-51.86	68.30	54.00	-27.00	-41.30	X/E
10640.70	H	42.89	32.64	16.22	59.11	48.86	-45.66	-55.91	68.30	54.00	-27.00	-41.30	X/H





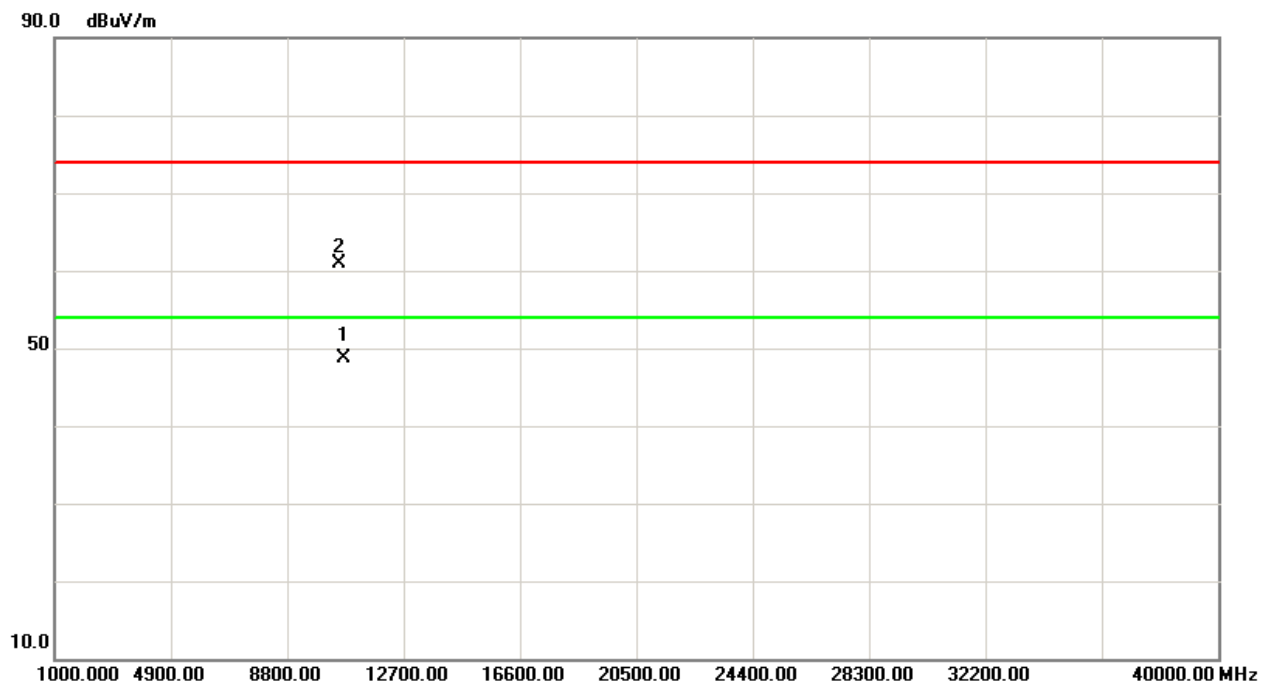
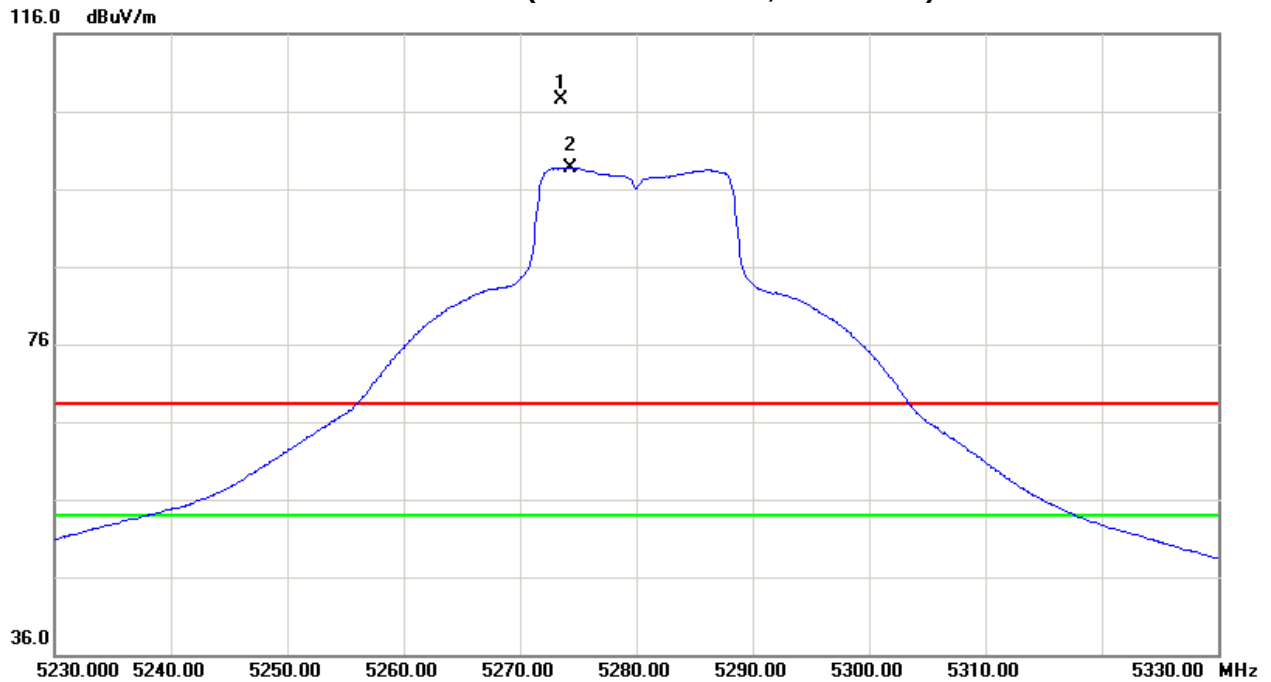
Orthogonal Axis:X
Band 2/CH52 (Above 1000 MHz, Horizontal)

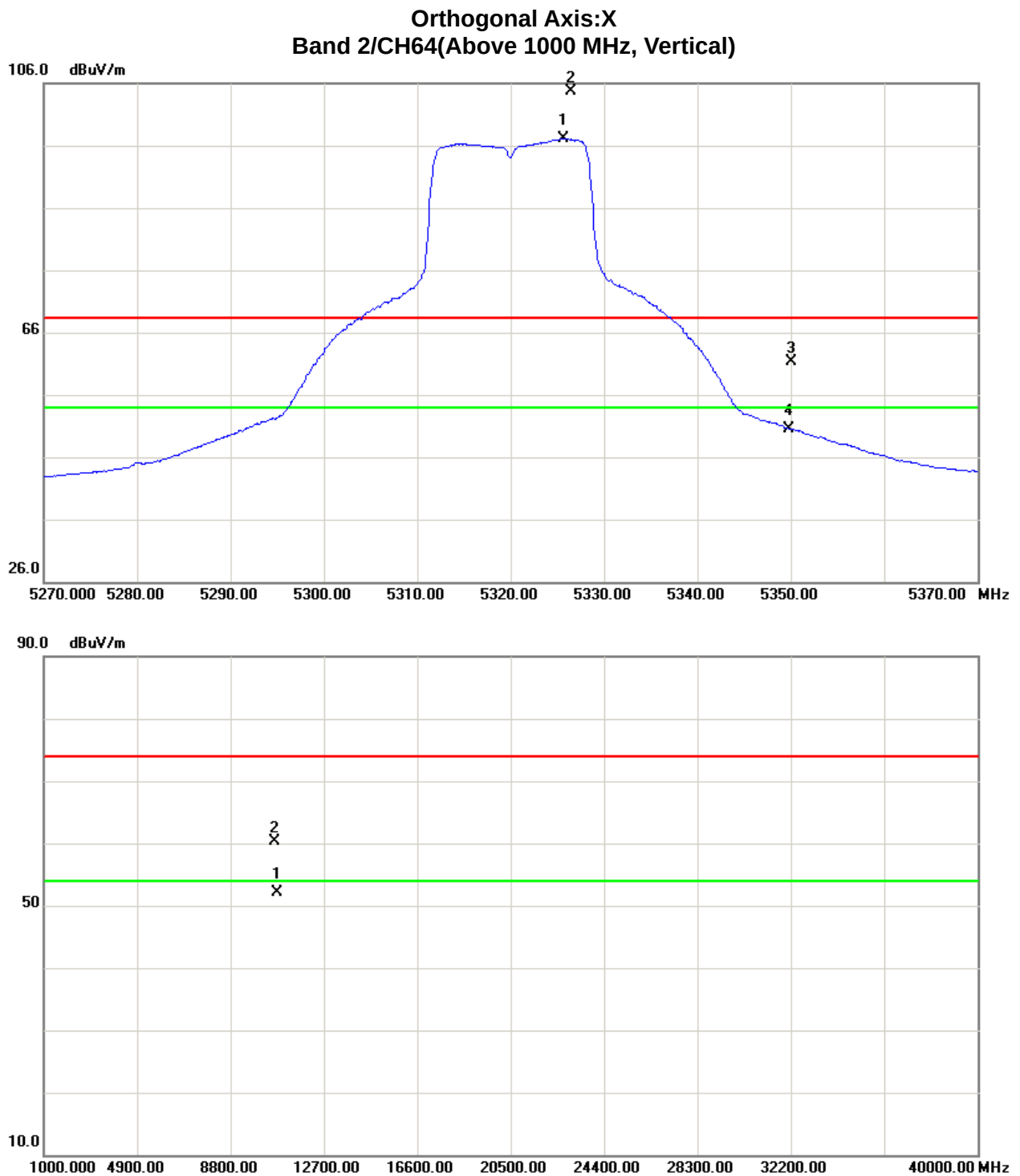






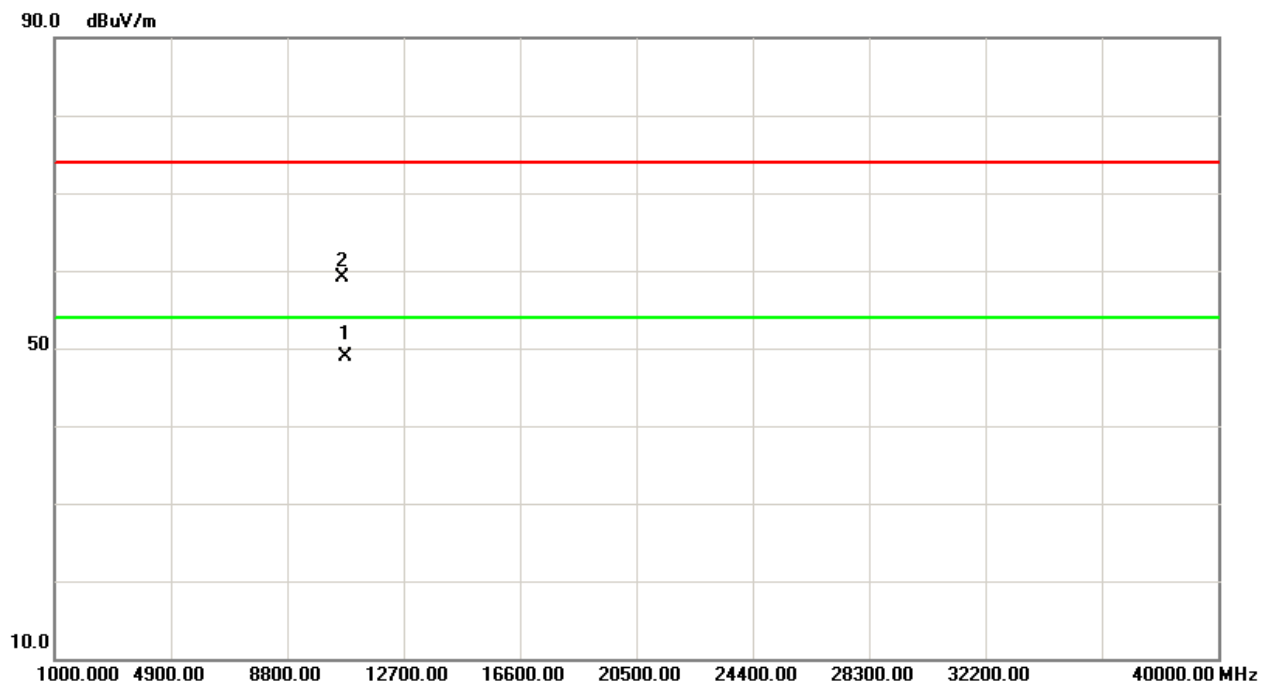
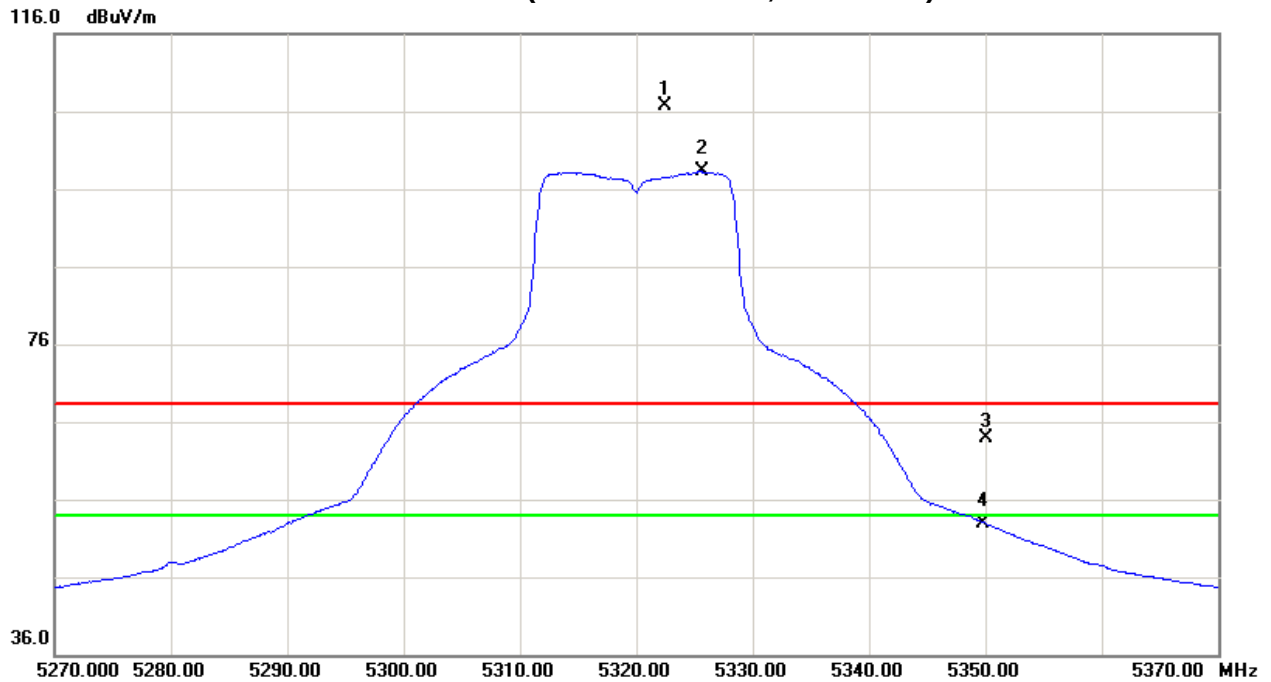
Orthogonal Axis:X
Band 2/CH56(Above 1000 MHz, Horizontal)







Orthogonal Axis:X
Band 2/CH64(Above 1000 MHz, Horizontal)





Test Mode : Band 2/ TX N20 Mode 5260MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5256.30	V	63.92	54.42	42.98	106.90	97.40	2.13	-7.37					X/F
10521.40	V	41.90	31.56	15.88	57.78	47.44	-46.99	-57.33	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5263.80	H	65.04	54.97	43.00	108.04	97.97	3.27	-6.80					X/F
10520.40	H	42.34	31.48	15.88	58.22	47.36	-46.55	-57.41	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 2/ TX N20 Mode 5280MHz

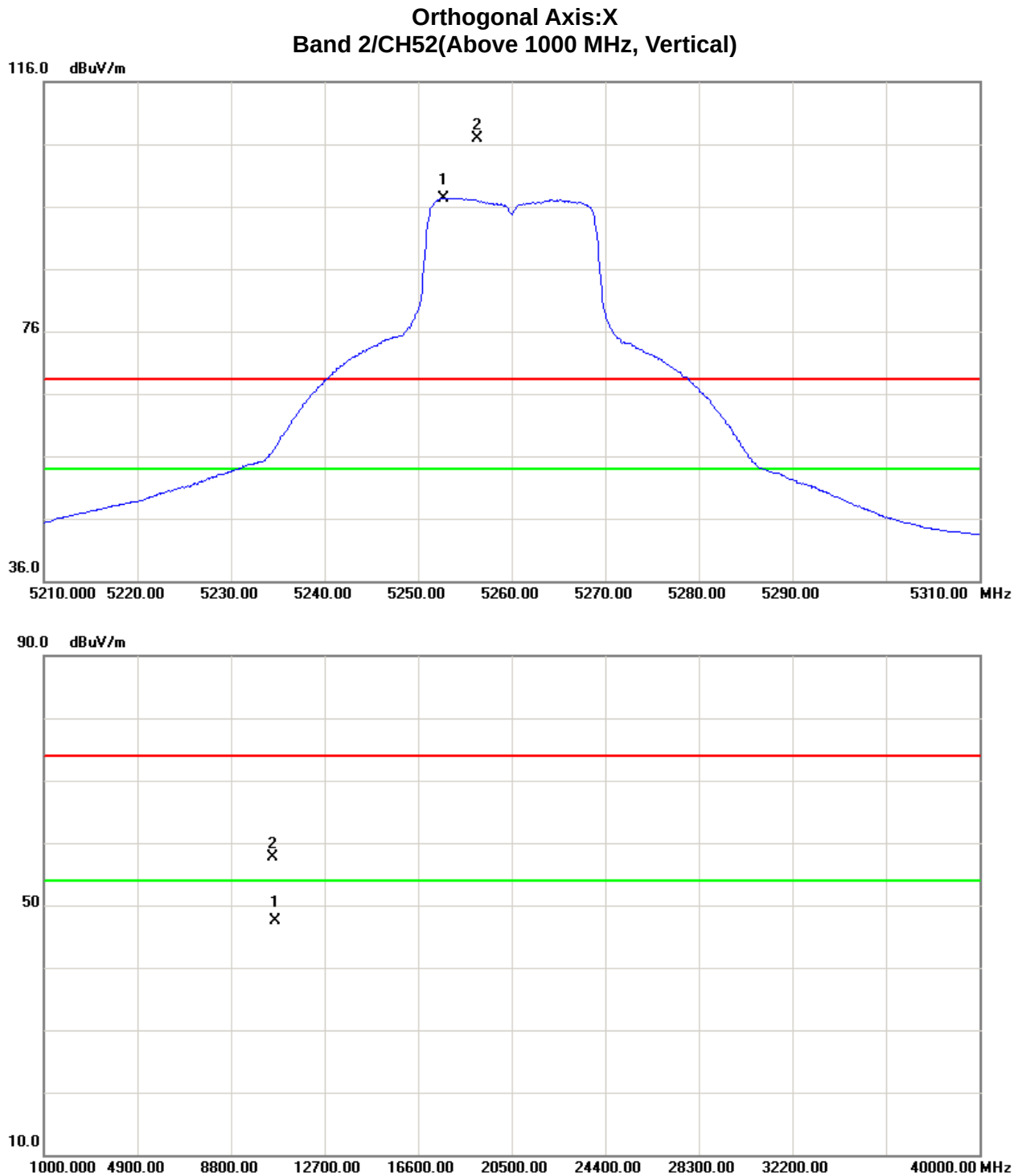
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5286.90	V	63.54	54.00	43.06	106.60	97.06	1.83	-7.71					X/F
10559.40	V	43.67	36.12	15.99	59.66	52.11	-45.11	-52.66	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5287.10	H	65.76	55.35	43.06	108.82	98.41	4.05	-6.36					X/F
10559.40	H	41.58	5.00	15.99	57.57	20.99	-47.20	-83.78	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 2/ TX N20 Mode 5320MHz

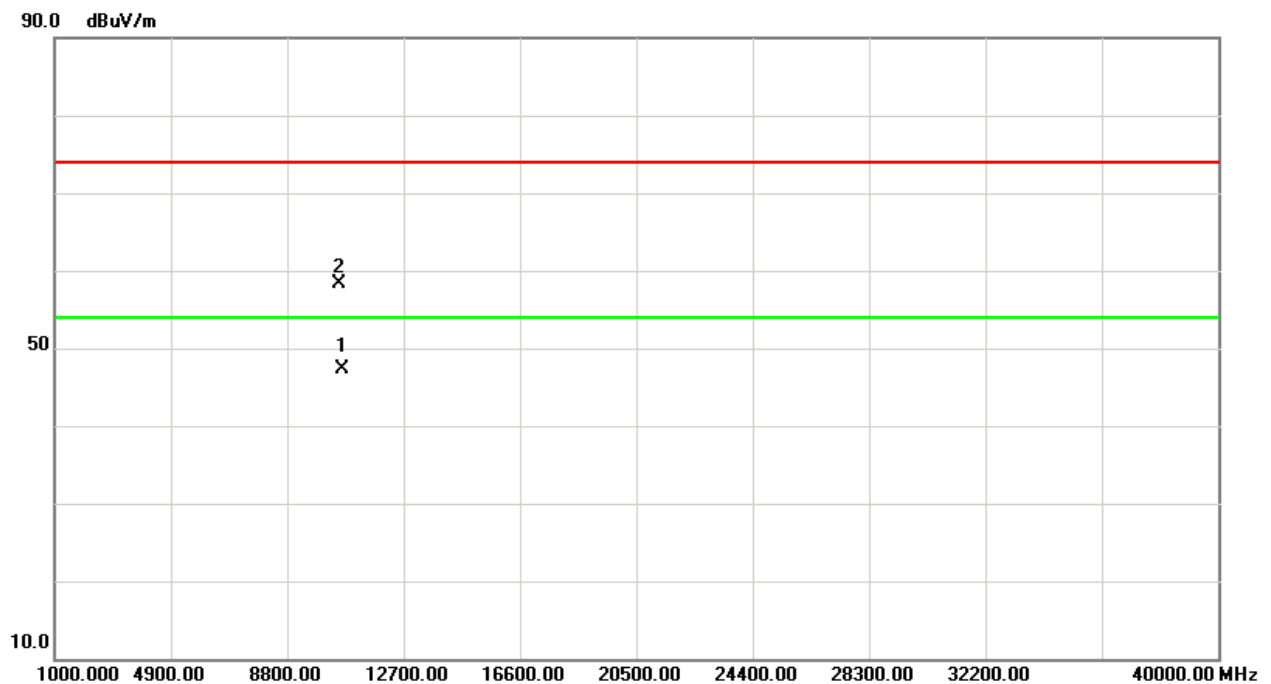
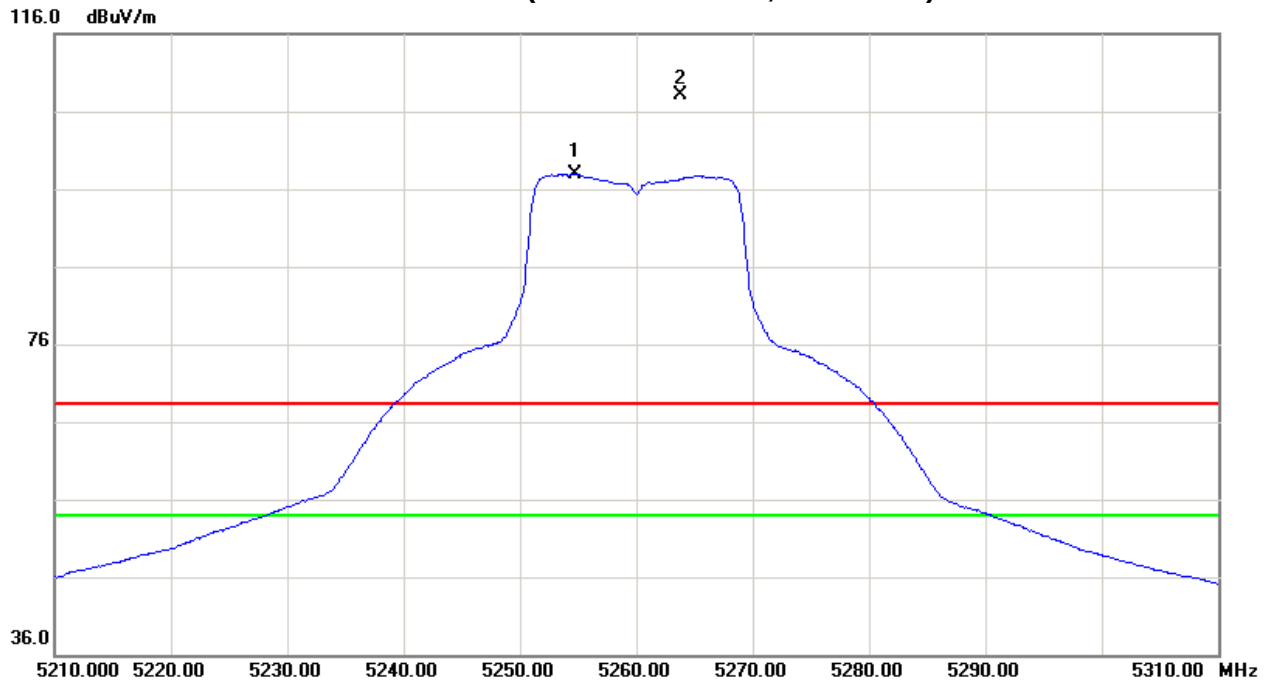
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5323.60	V	61.74	52.57	43.15	104.89	95.72	0.12	-9.05					X/F
5350.00	V	15.16	4.48	43.21	58.37	47.69	-46.40	-57.08	68.30	54.00	-27.00	-41.30	X/E
10640.00	V	43.46	32.56	16.22	59.68	48.78	-45.09	-55.99	68.30	54.00	-27.00	-41.30	X/H

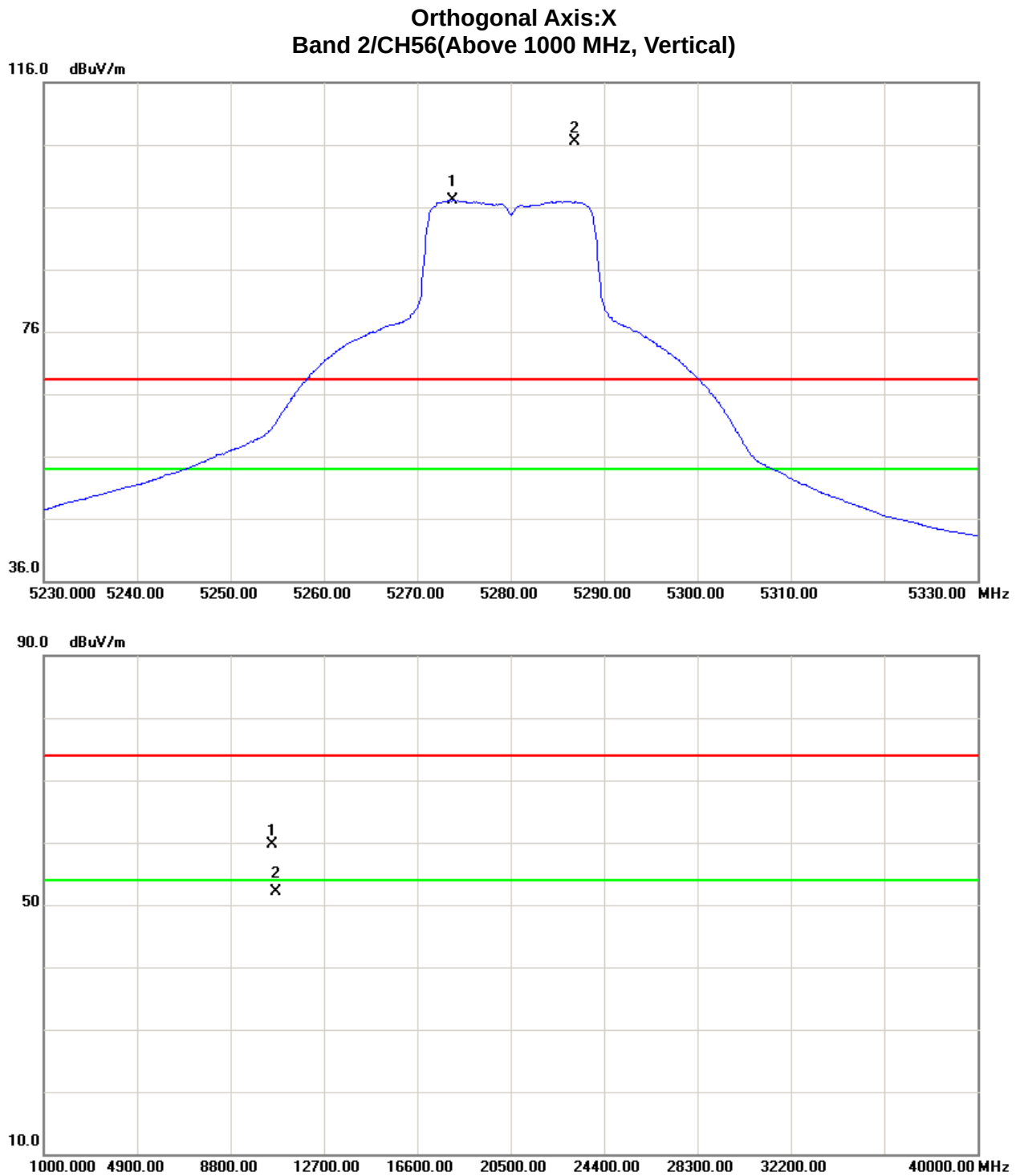
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5325.00	H	64.62	54.98	43.15	107.77	98.13	3.00	-6.64					X/F
5350.00	H	20.13	9.29	43.21	63.34	52.50	-41.43	-52.27	68.30	54.00	-27.00	-41.30	X/E
10640.50	H	42.63	32.59	16.22	58.85	48.81	-45.92	-55.96	68.30	54.00	-27.00	-41.30	X/H





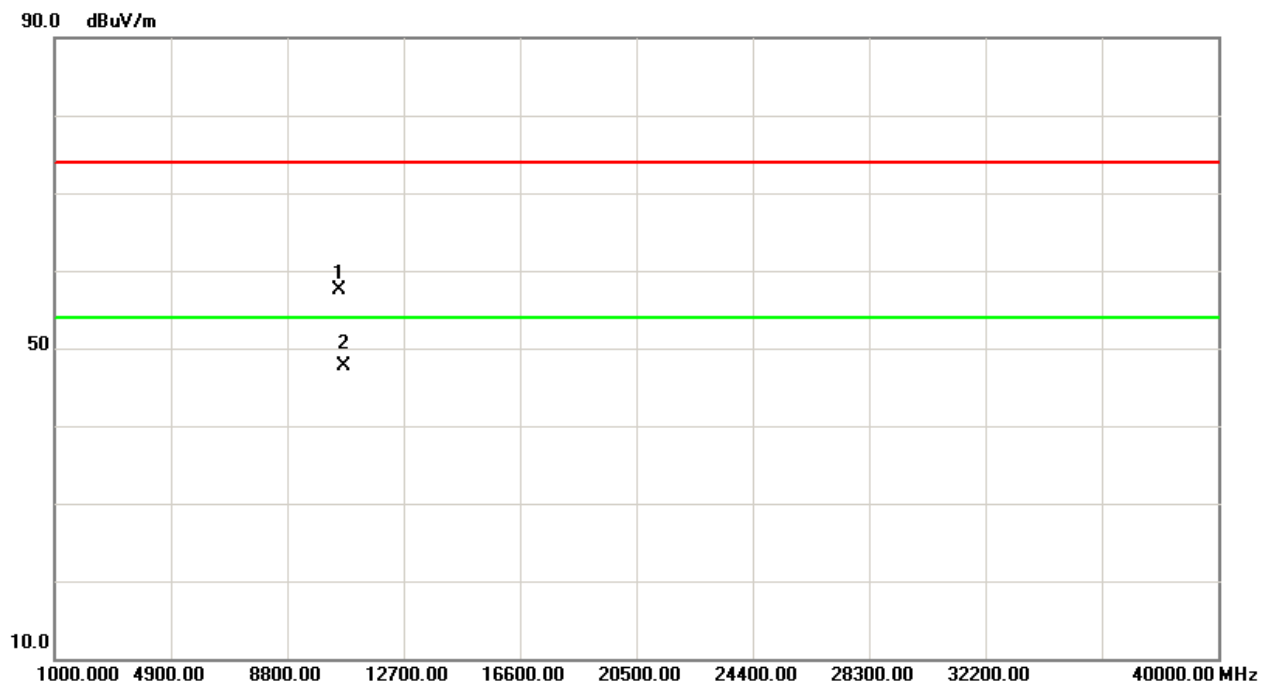
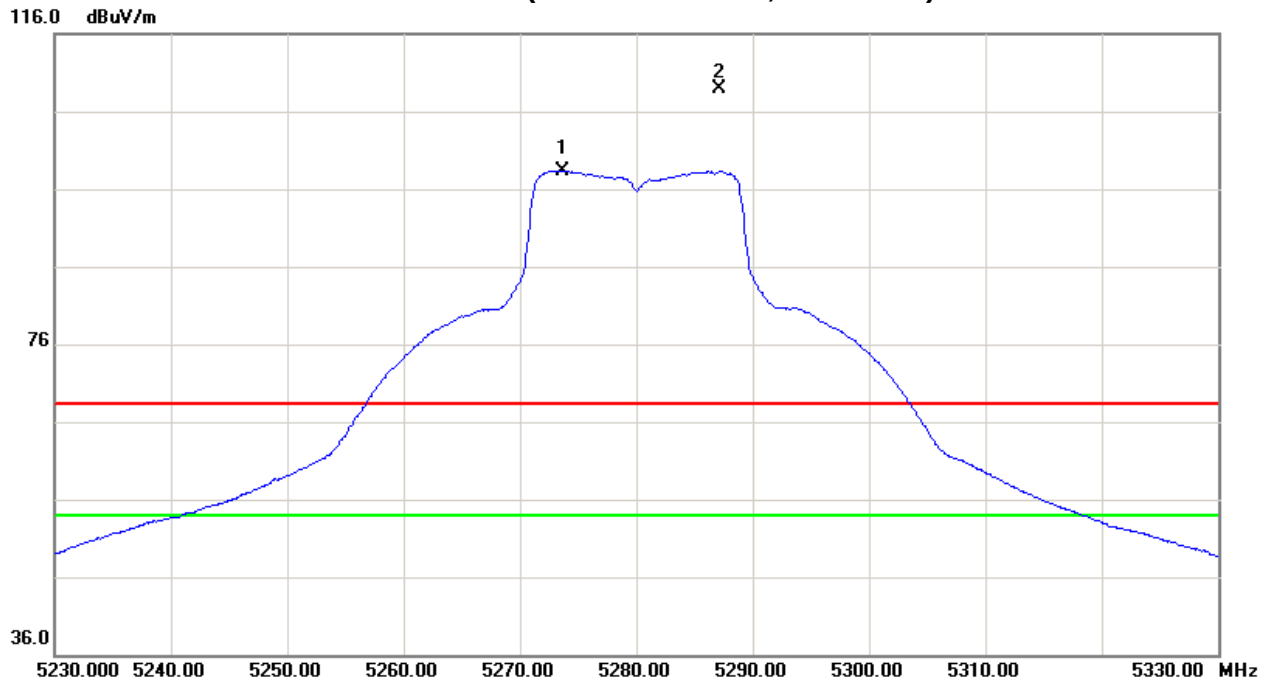
Orthogonal Axis:X
Band 2/CH52(Above 1000 MHz, Horizontal)

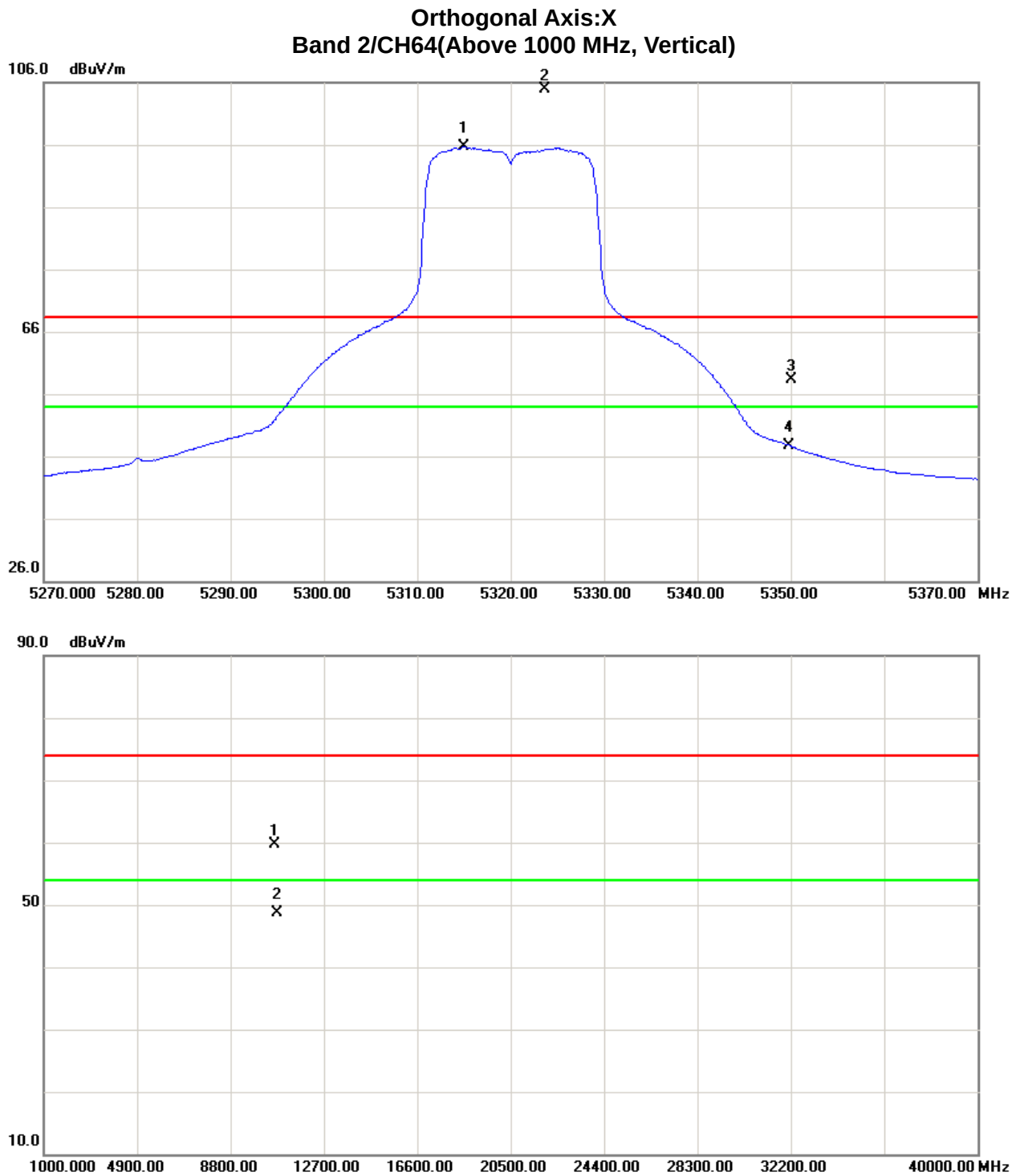






Orthogonal Axis:X
Band 2/CH56(Above 1000 MHz, Horizontal)

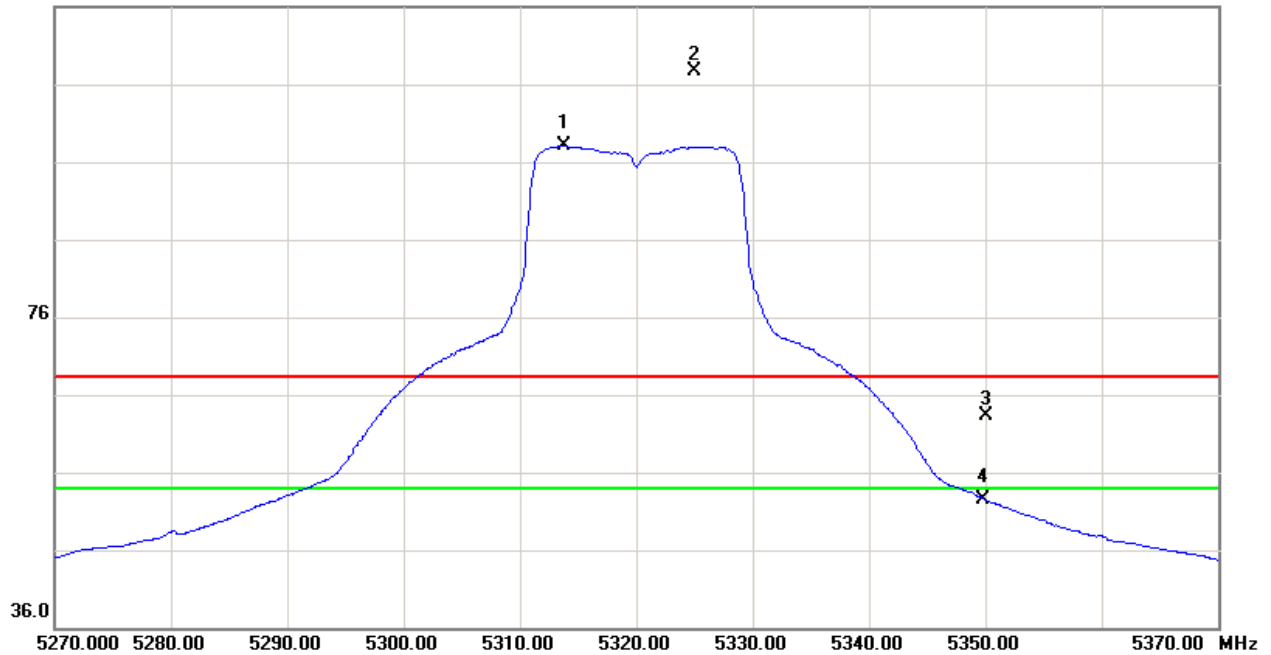




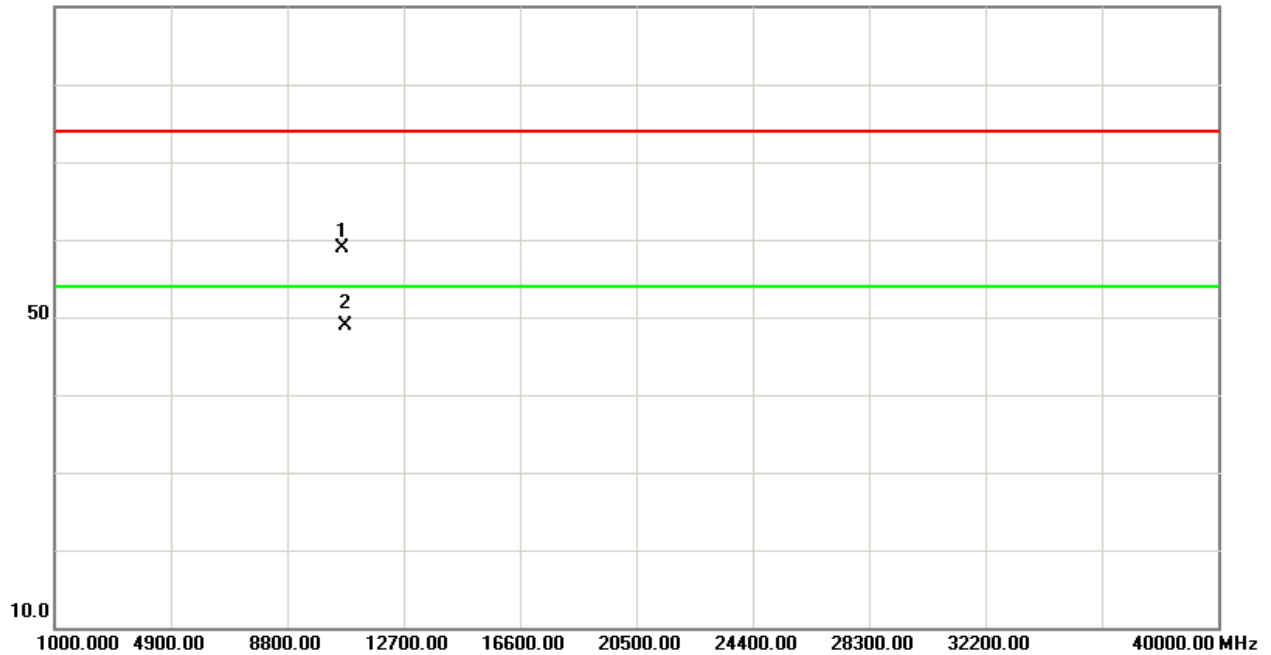


Orthogonal Axis:X
Band 2/CH64(Above 1000 MHz, Horizontal)

116.0 dBuV/m



90.0 dBuV/m





Test Mode : Band 2/ TX N40 Mode 5270MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5262.40	V	60.46	50.60	43.00	103.46	93.60	-1.31	-11.17					X/F
10540.90	V	37.60	28.72	15.93	53.53	44.65	-51.24	-60.12	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5258.80	H	62.49	52.56	42.98	105.47	95.54	0.70	-9.23					X/F
10539.60	H	38.69	29.01	15.94	54.63	44.95	-50.14	-59.82	68.30	54.00	-27.00	-41.30	X/H

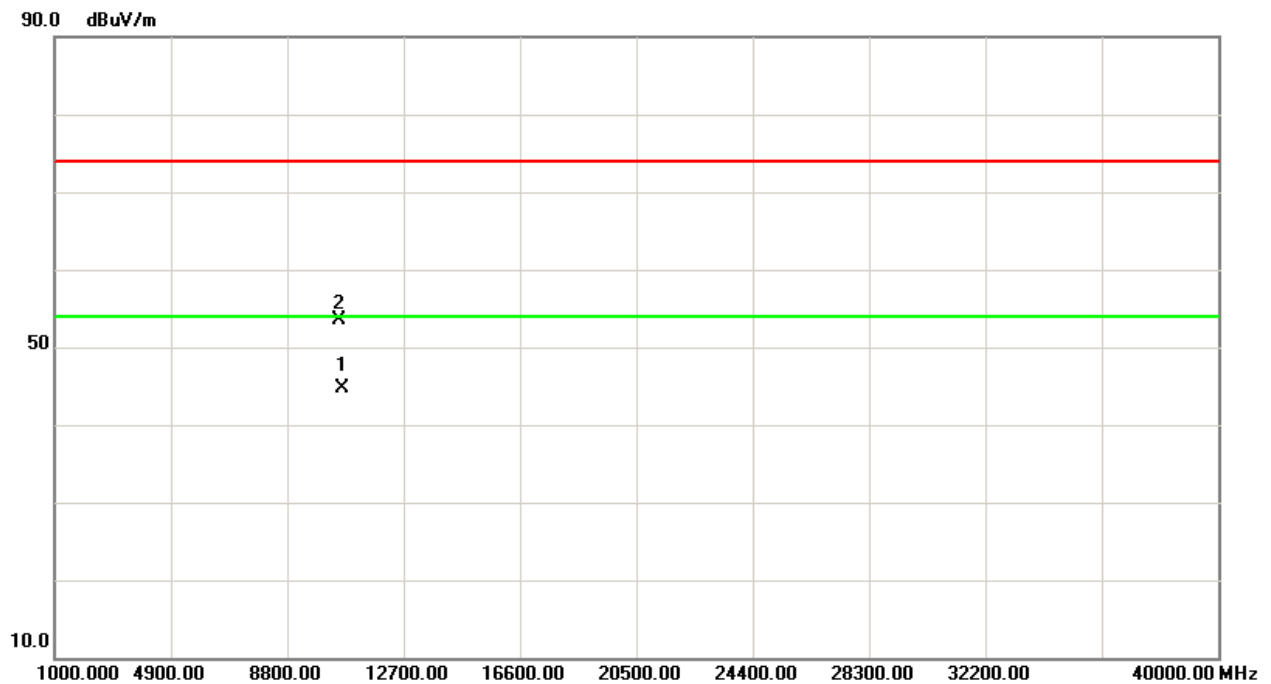
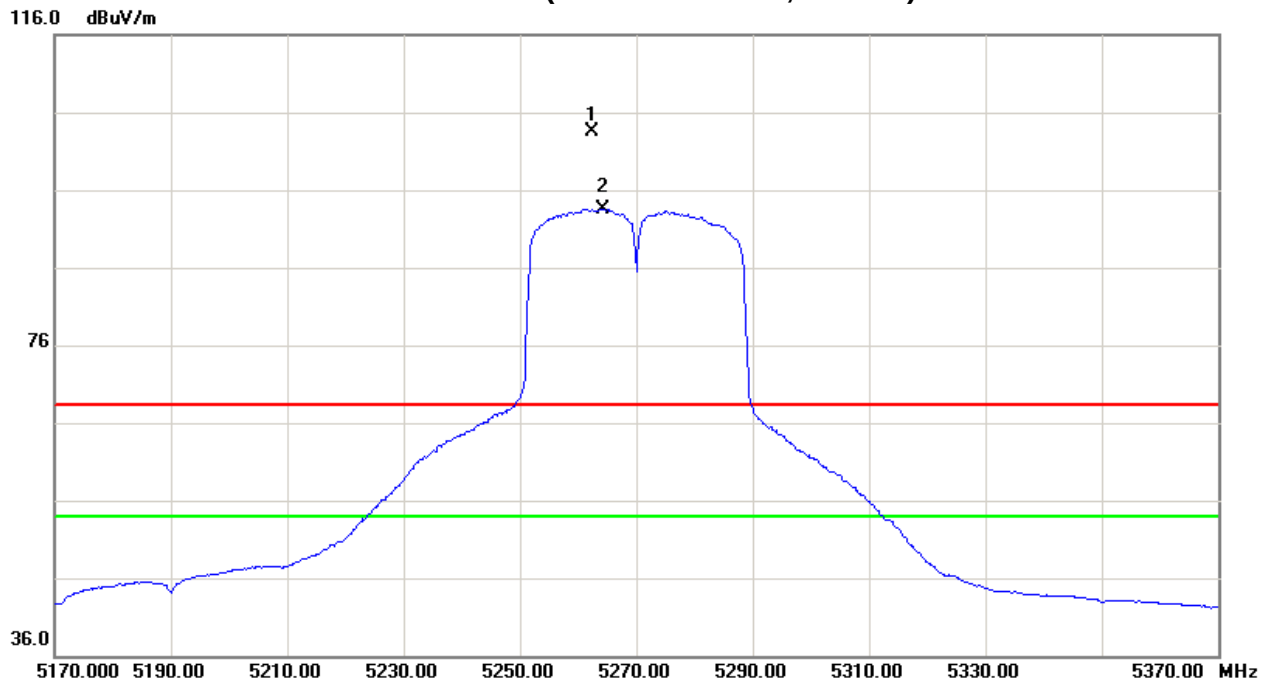
Test Mode : Band 2/ TX N40 Mode 5310MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5301.20	V	58.73	47.64	43.09	101.82	90.73	-2.95	-14.04					X/F
5350.00	V	10.37	1.99	43.21	53.58	45.20	-51.19	-59.57	68.30	54.00	-27.00	-41.30	X/E
10619.50	V	38.94	29.12	16.17	55.11	45.29	-49.66	-59.48	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5302.40	H	62.14	51.19	43.09	105.23	94.28	0.46	-10.49					X/F
5350.00	H	19.55	8.15	43.21	62.76	51.36	-42.01	-53.41	68.30	54.00	-27.00	-41.30	X/E
10620.00	H	38.54	28.96	16.17	54.71	45.13	-50.06	-59.64	68.30	54.00	-27.00	-41.30	X/H

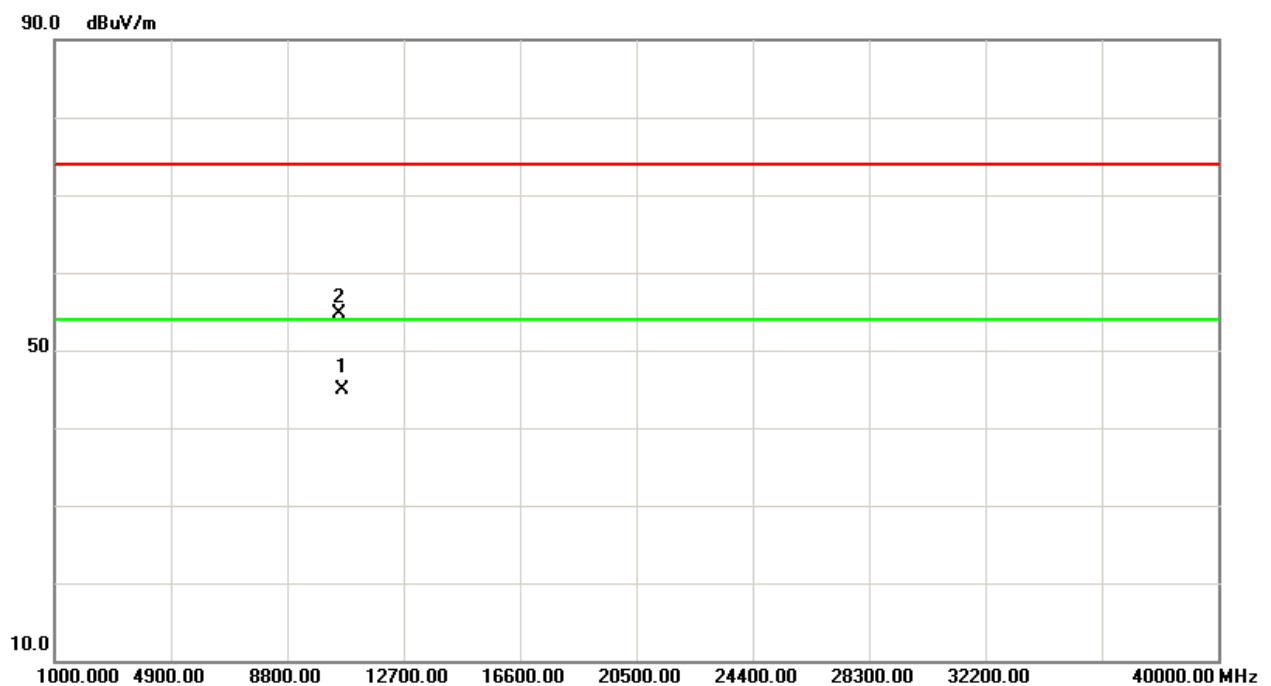
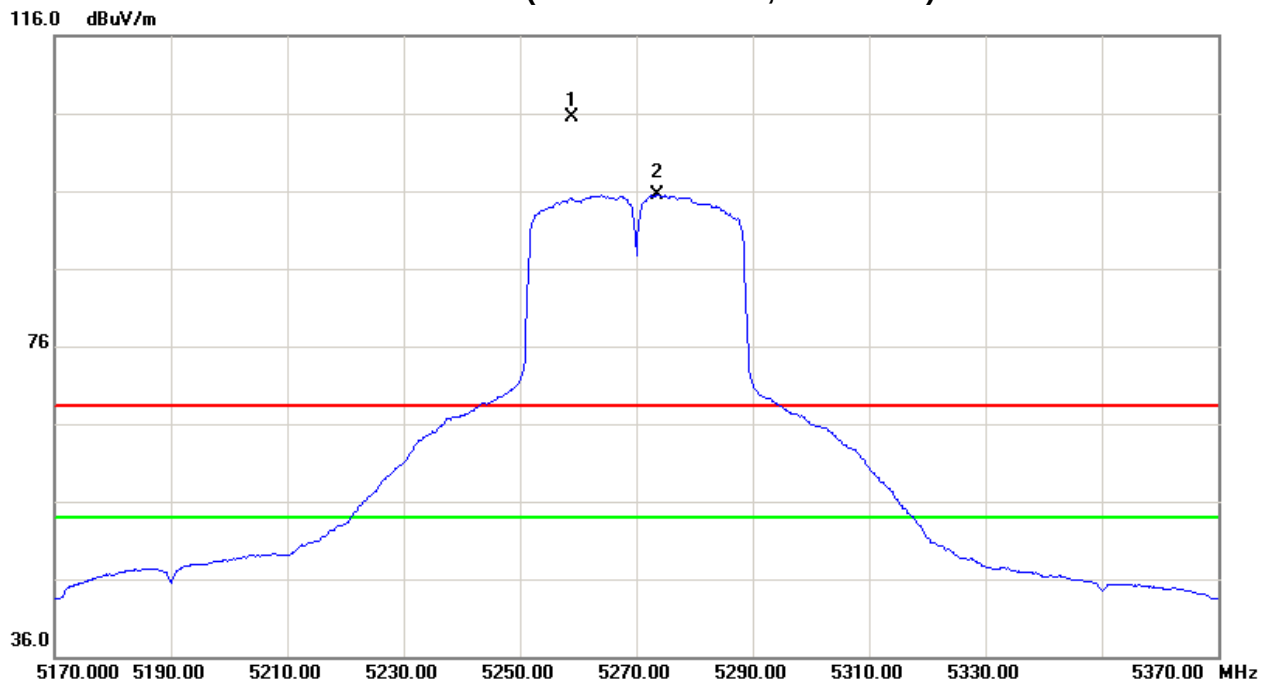


Orthogonal Axis:X
Band 2/CH54(Above 1000 MHz, Vertical)



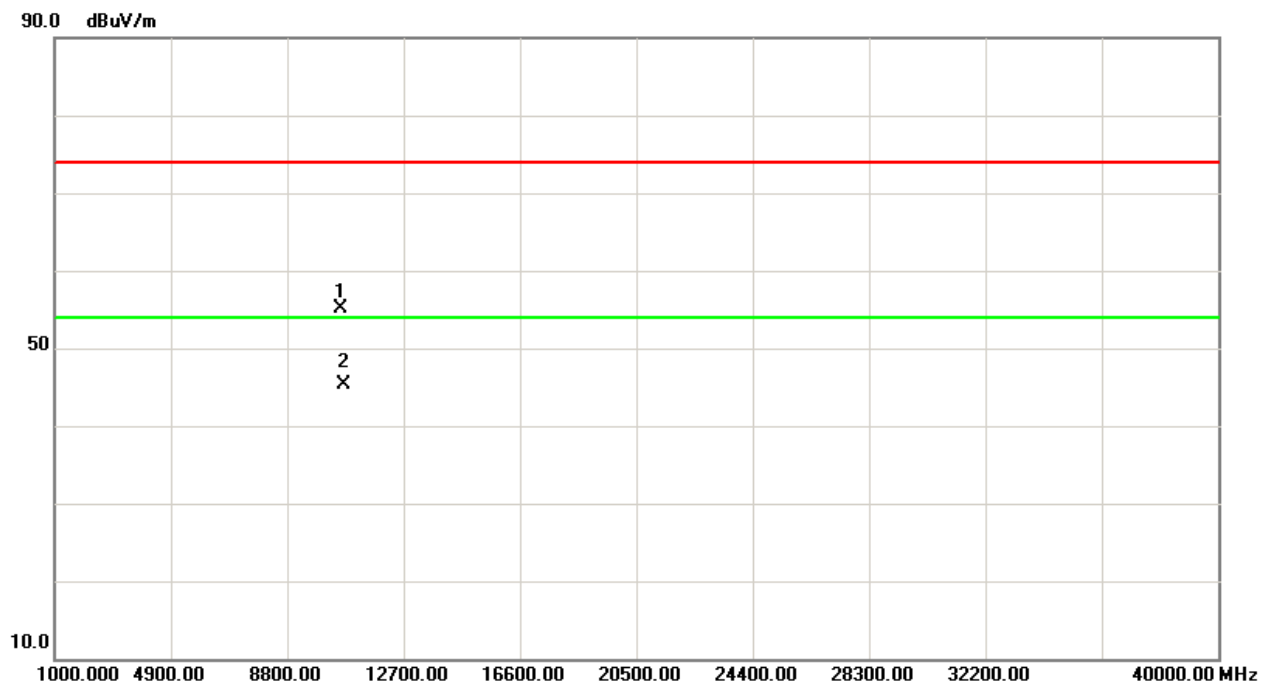
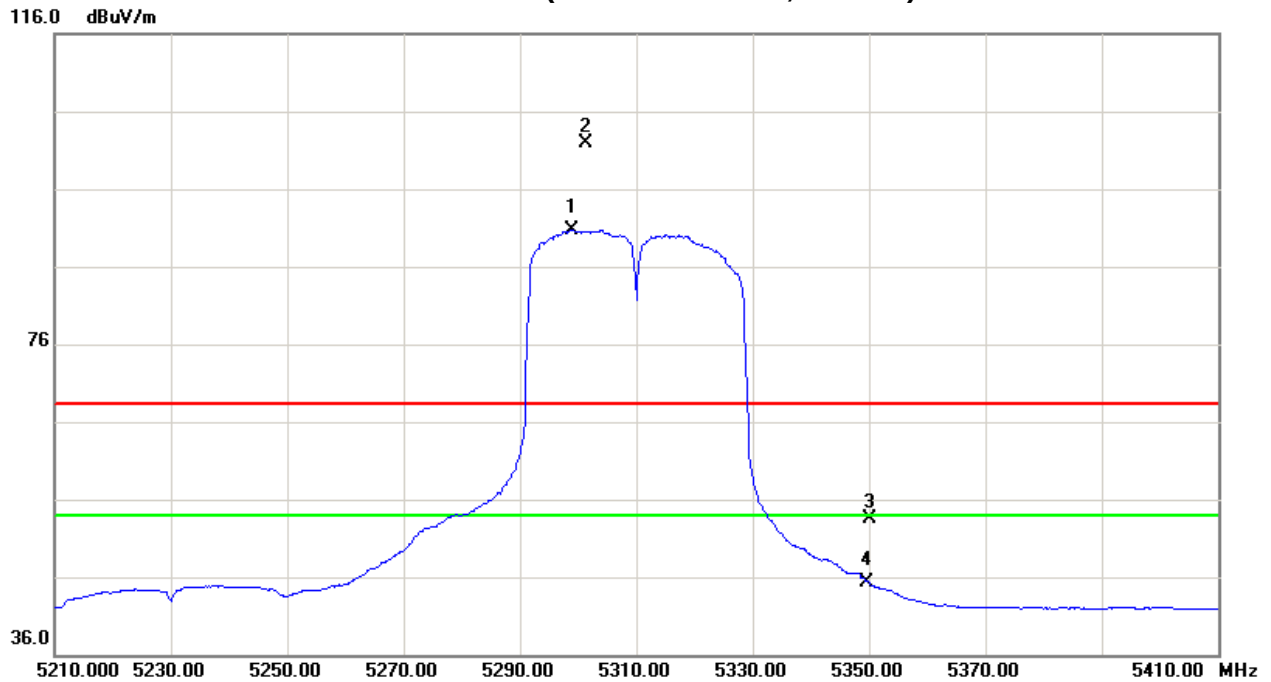


Orthogonal Axis:X
Band 2/CH54(Above 1000 MHz, Horizontal)



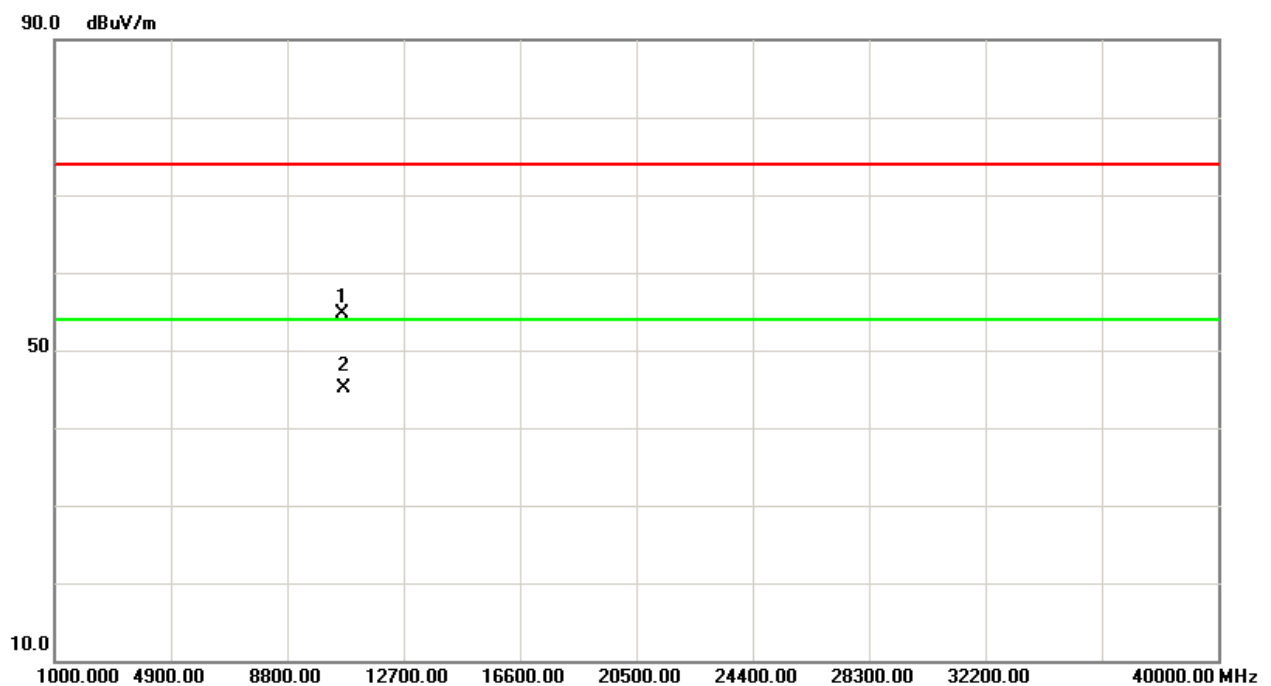
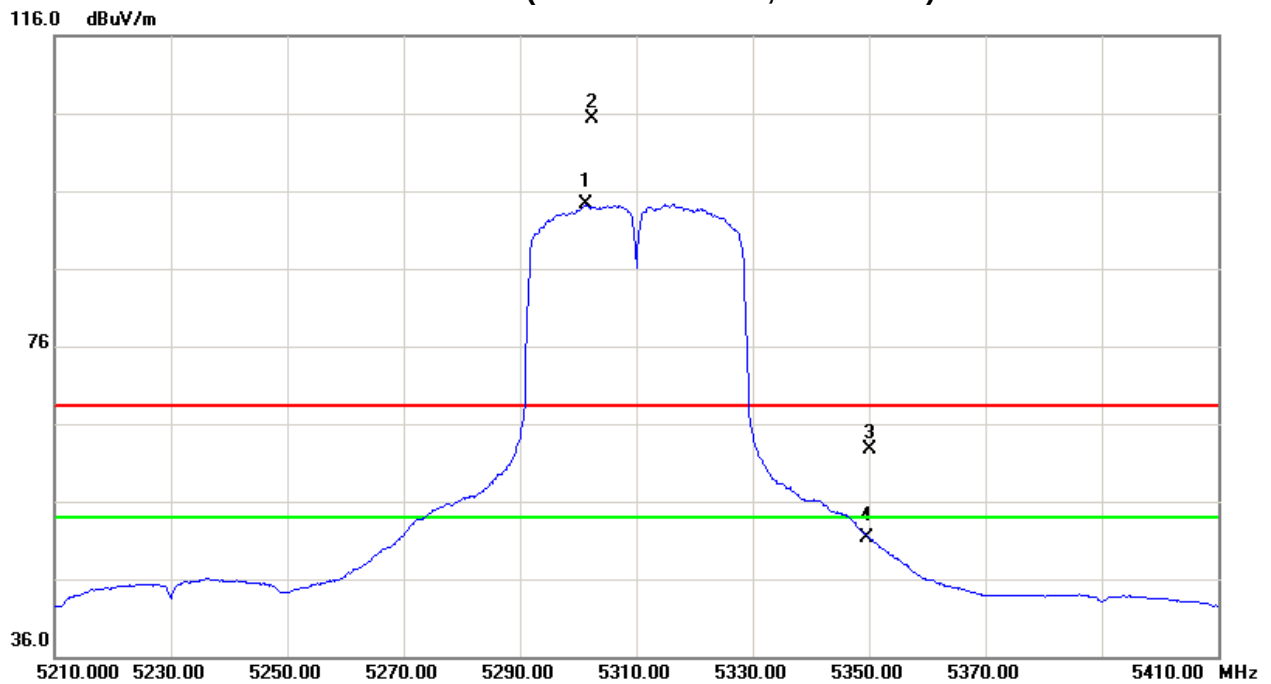


Orthogonal Axis:X
Band 2/CH62(Above 1000 MHz, Vertical)





Orthogonal Axis:X
Band 2/CH62(Above 1000 MHz, Horizontal)





Test Mode : Band 3/ TX A Mode 5500MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	V	10.55	0.87	43.49	54.04	44.36	-50.73	-60.41	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	14.67	5.72	43.50	58.17	49.22	-46.60	-55.55	68.30	54.00	-27.00	-41.30	X/E
5505.90	V	61.99	53.20	43.60	105.59	96.80	0.82	-7.97					X/F
11002.40	V	39.61	29.73	17.26	56.87	46.99	-47.90	-57.78	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	H	16.36	3.05	43.49	59.85	46.54	-44.92	-58.23	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	19.81	8.32	43.50	63.31	51.82	-41.46	-52.95	68.30	54.00	-27.00	-41.30	X/E
5495.00	H	63.84	55.10	43.57	107.41	98.67	2.64	-6.10					X/F
11000.40	H	38.72	28.46	17.26	55.98	45.72	-48.79	-59.05	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 3/ TX A Mode 5580MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5586.70	V	64.94	56.11	43.88	108.82	99.99	4.05	-4.78					X/F
11160.00	V	41.82	31.67	17.65	59.47	49.32	-45.30	-55.45	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5575.50	H	65.33	56.25	43.84	109.17	100.09	4.40	-4.68					X/F
11160.00	H	39.64	29.41	17.65	57.29	47.06	-47.48	-57.71	68.30	54.00	-27.00	-41.30	X/H

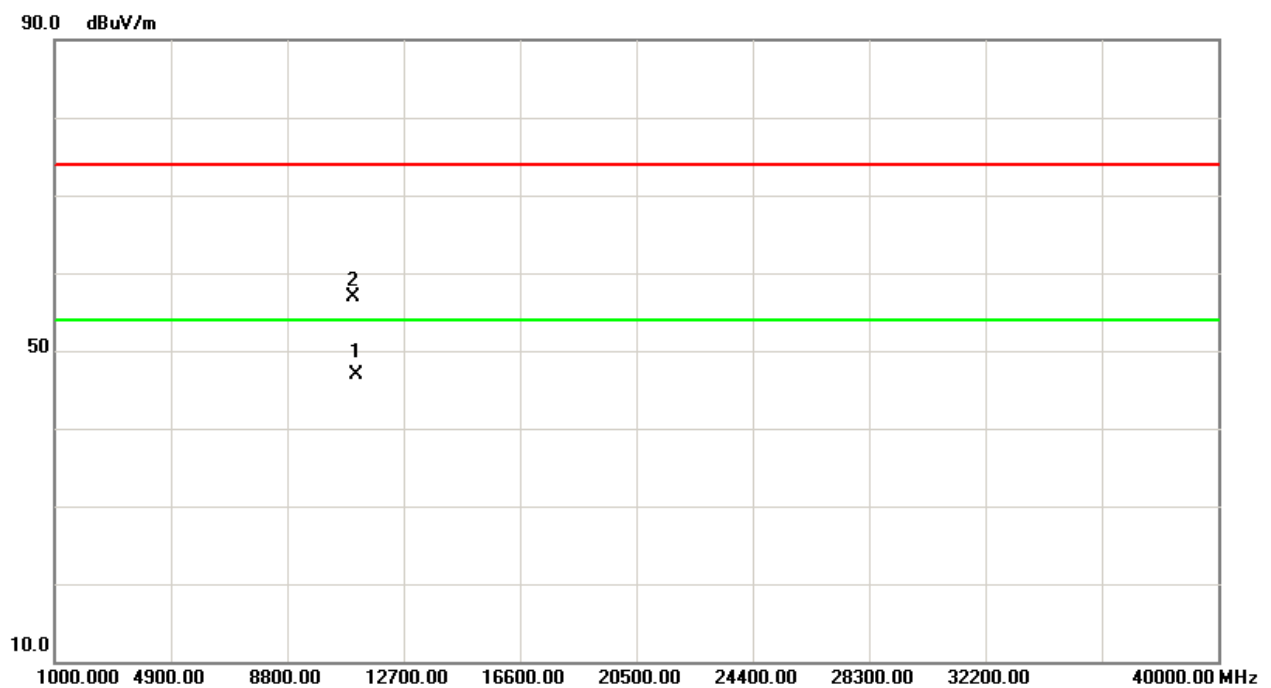
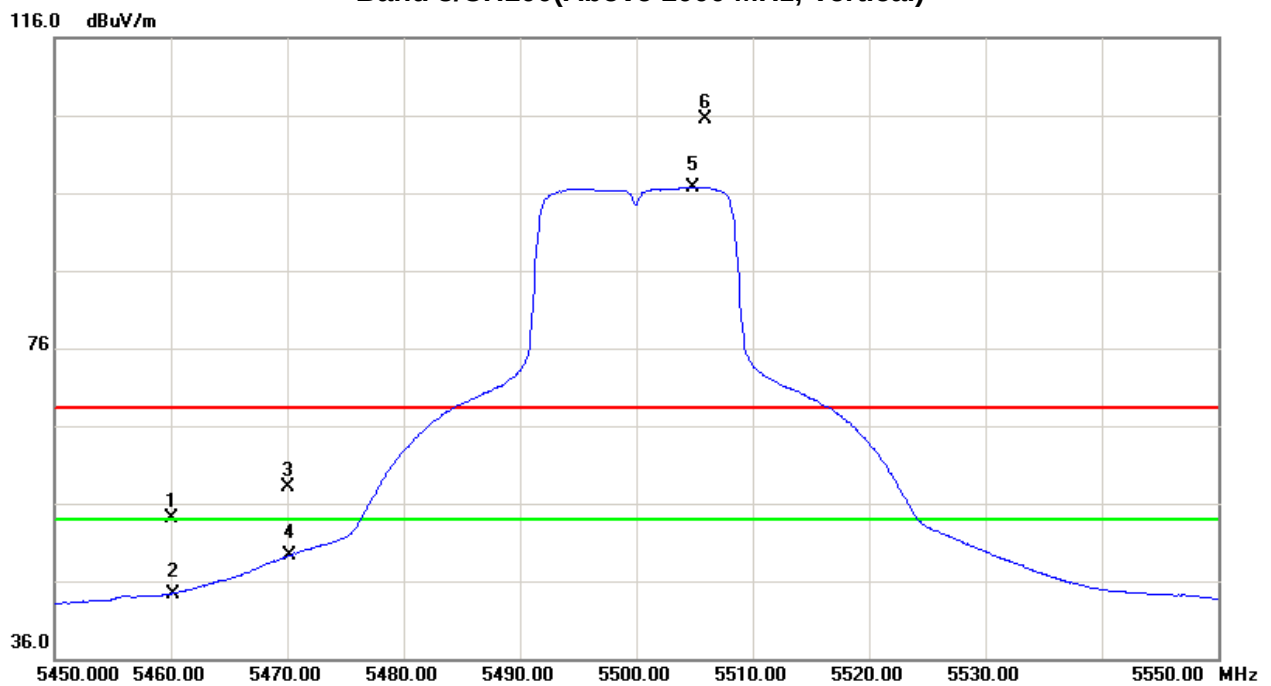
Test Mode : Band 3/ TX A Mode 5700MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5703.10	V	62.51	53.97	44.28	106.79	98.25	2.02	-6.52					X/F
5725.00	V	21.06	7.71	44.34	65.40	52.05	-39.37	-52.72	68.30	54.00	-27.00	-41.30	X/E
11400.30	V	39.84	29.67	18.24	58.08	47.91	-46.69	-56.86	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5693.50	H	62.15	54.12	44.24	106.39	98.36	1.62	-6.41					X/F
5725.00	H	22.36	8.72	44.34	66.70	53.06	-38.07	-51.71	68.30	54.00	-27.00	-41.30	X/E
11400.20	H	37.85	29.04	18.24	56.09	47.28	-48.68	-57.49	68.30	54.00	-27.00	-41.30	X/H

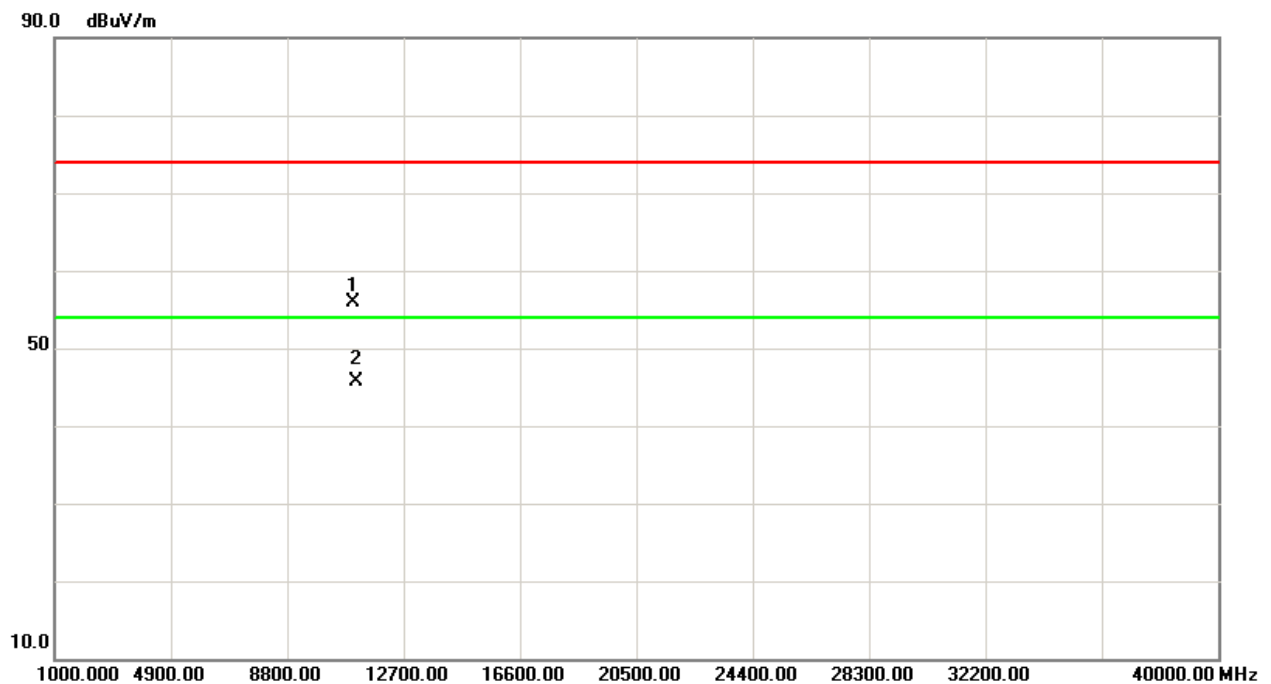
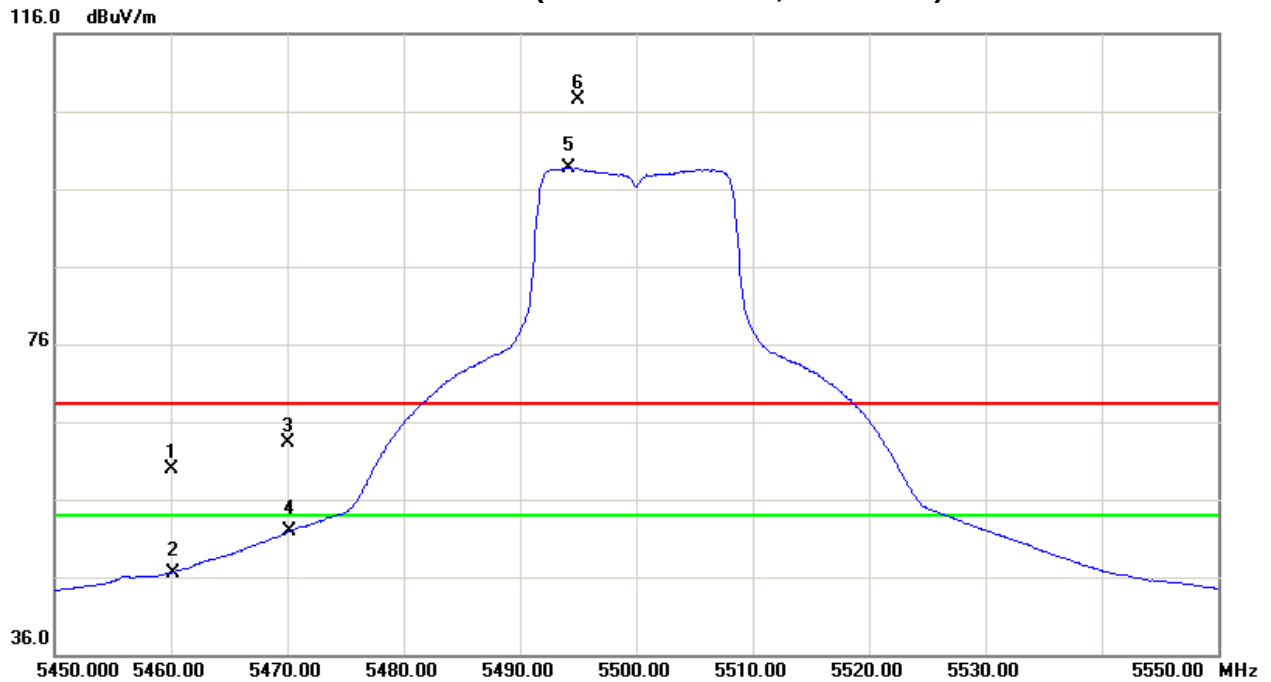


Orthogonal Axis:X
Band 3/CH100(Above 1000 MHz, Vertical)





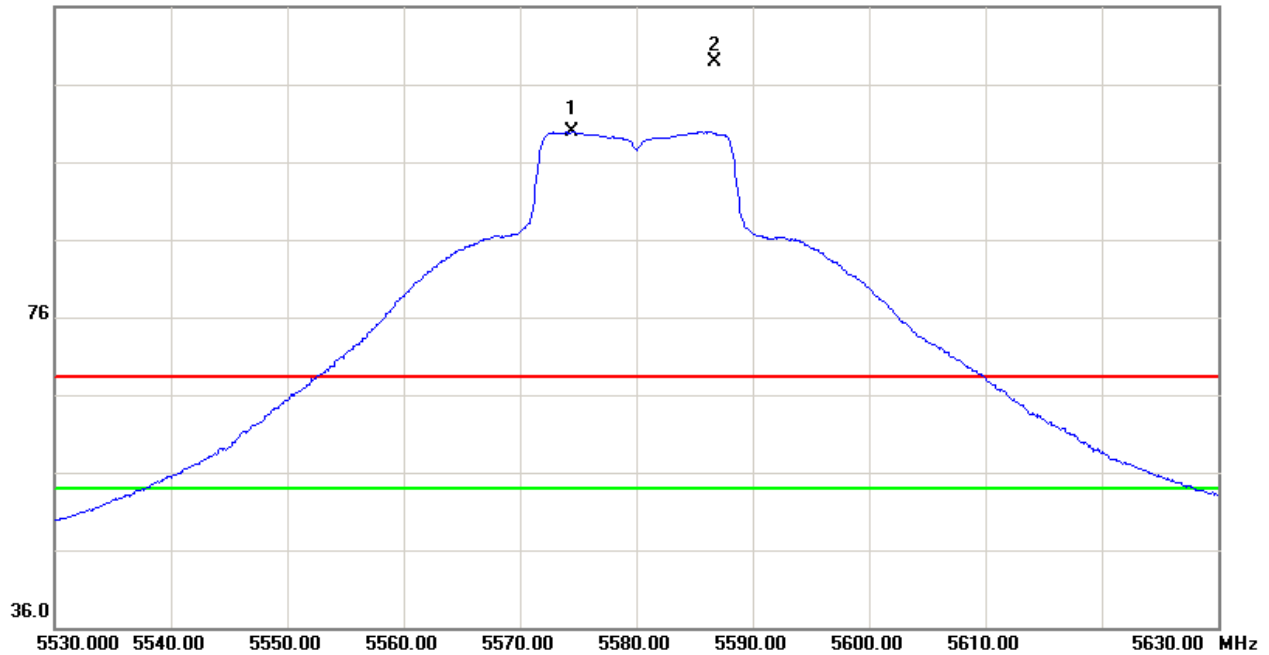
Orthogonal Axis:X
Band 3/CH100(Above 1000 MHz, Horizontal)



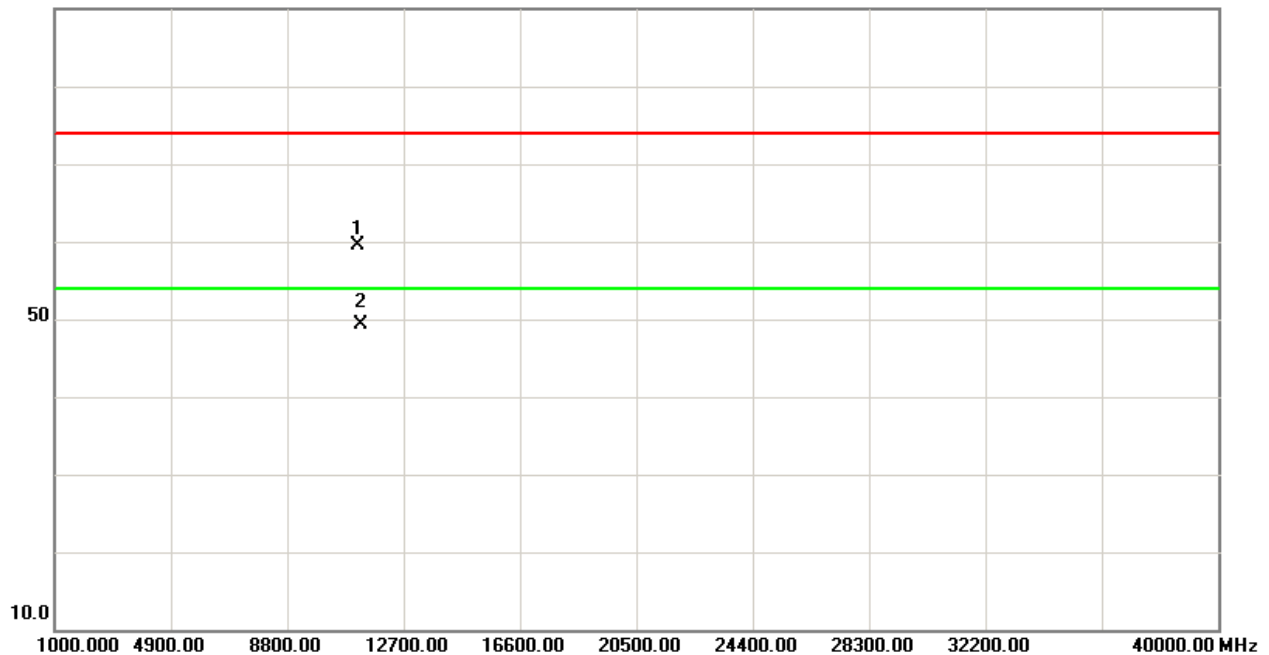


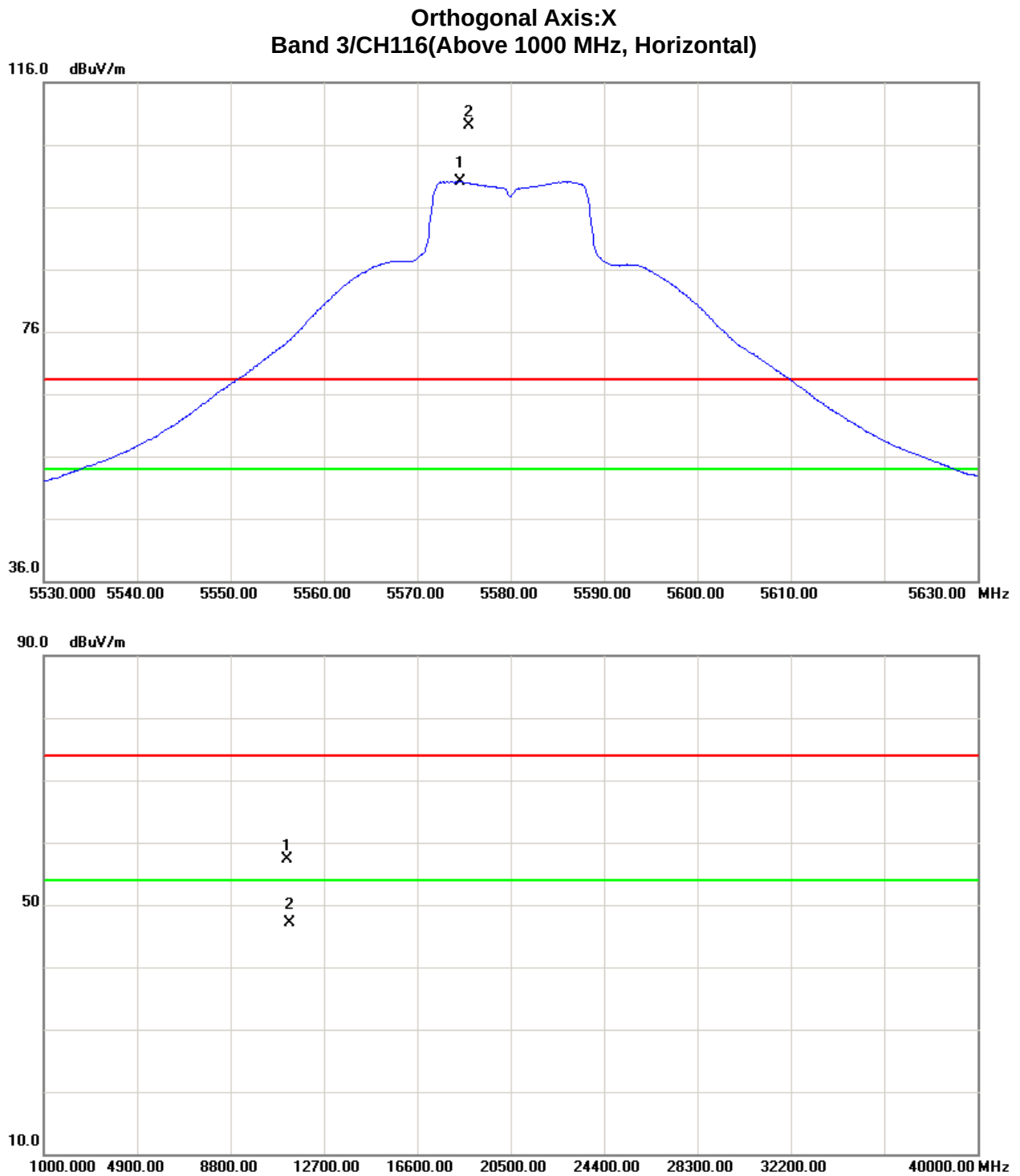
Orthogonal Axis:X
Band 3/CH116(Above 1000 MHz, Vertical)

116.0 dBuV/m



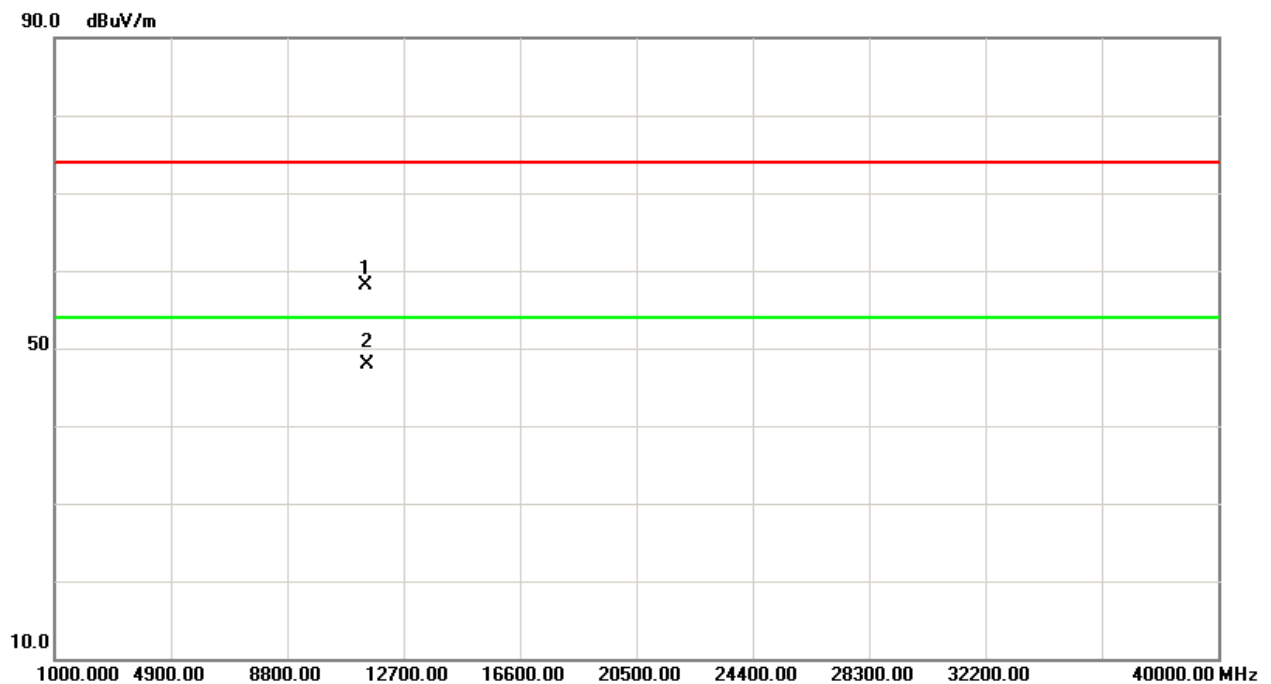
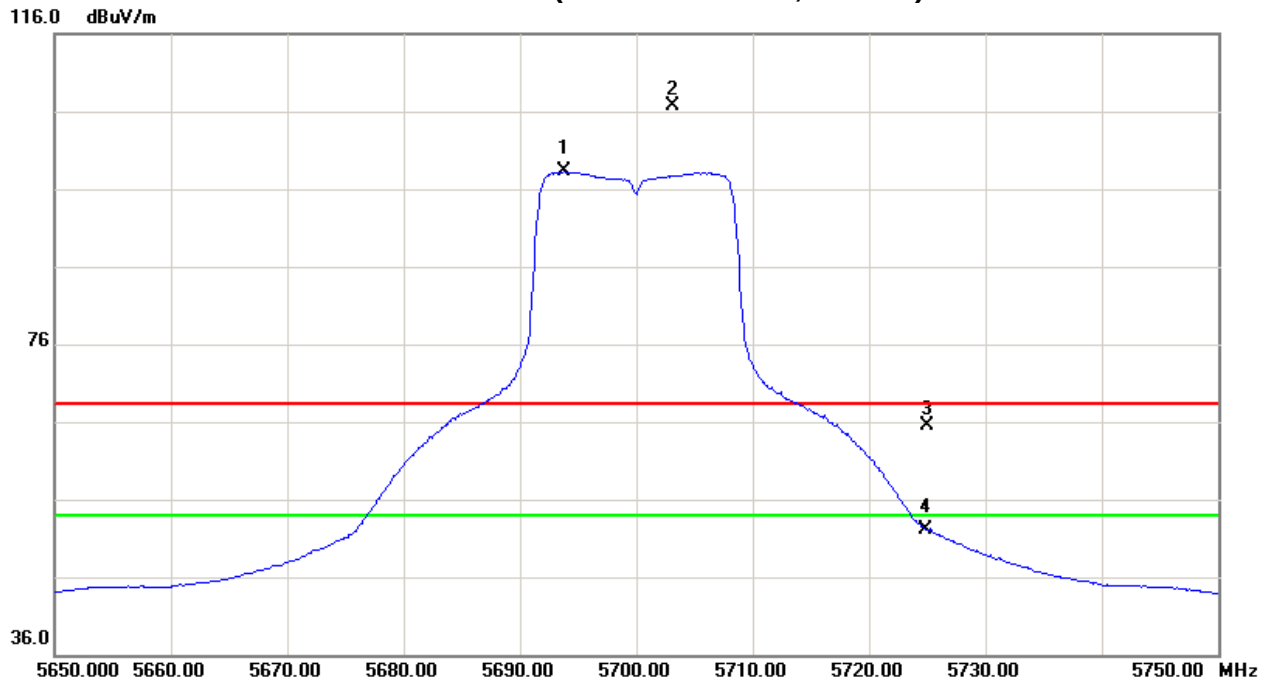
90.0 dBuV/m





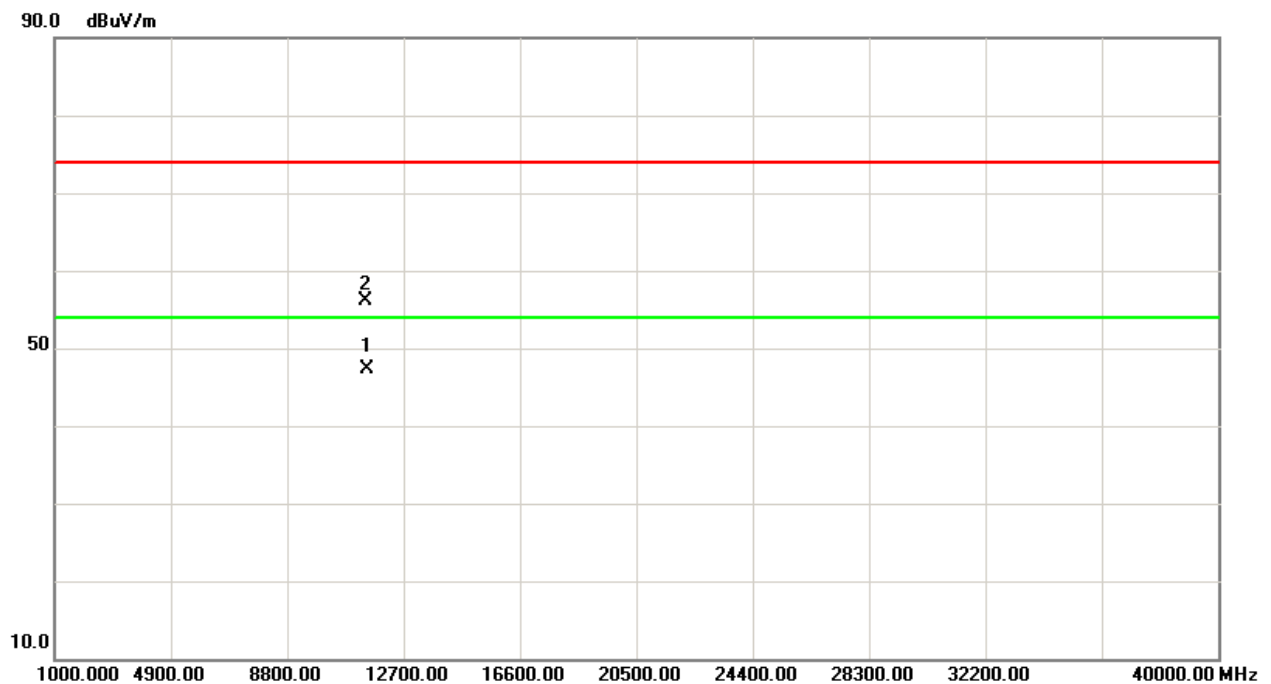
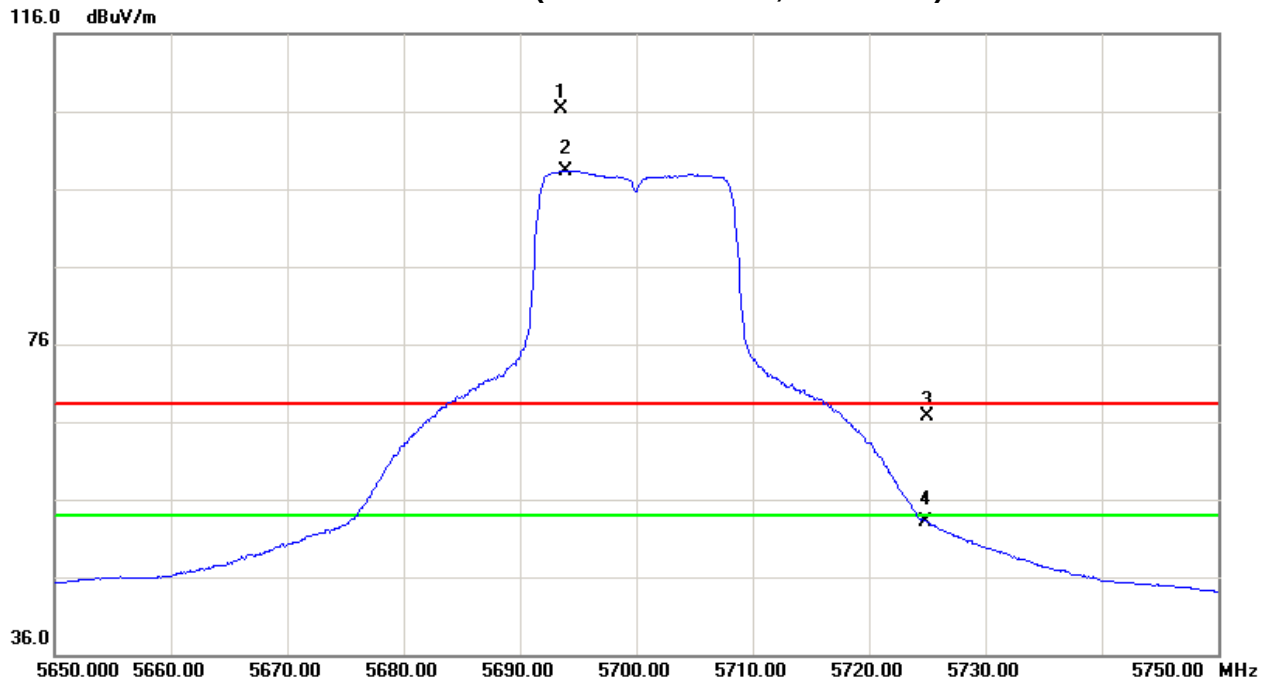


Orthogonal Axis:X
Band 3/CH140(Above 1000 MHz, Vertical)





Orthogonal Axis:X
Band 3/CH140(Above 1000 MHz, Horizontal)





Test Mode : Band 3/ TX N20 Mode 5500MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	V	13.72	4.47	43.49	57.21	47.96	-47.56	-56.81	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	19.41	9.27	43.50	62.91	52.77	-41.86	-52.00	68.30	54.00	-27.00	-41.30	X/E
5506.80	V	63.13	53.80	43.60	106.73	97.40	1.96	-7.37					X/F
11002.50	V	38.23	28.16	17.26	55.49	45.42	-49.28	-59.35	68.30	54.00	-27.00	-41.30	X/H
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	H	13.17	3.46	43.49	56.66	46.95	-48.11	-57.82	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	19.04	8.42	43.50	62.54	51.92	-42.23	-52.85	68.30	54.00	-27.00	-41.30	X/E
5492.70	H	64.28	53.70	43.56	107.84	97.26	3.07	-7.51					X/F
11000.00	H	39.28	29.46	17.26	56.54	46.72	-48.23	-58.05	68.30	54.00	-27.00	-41.30	X/H

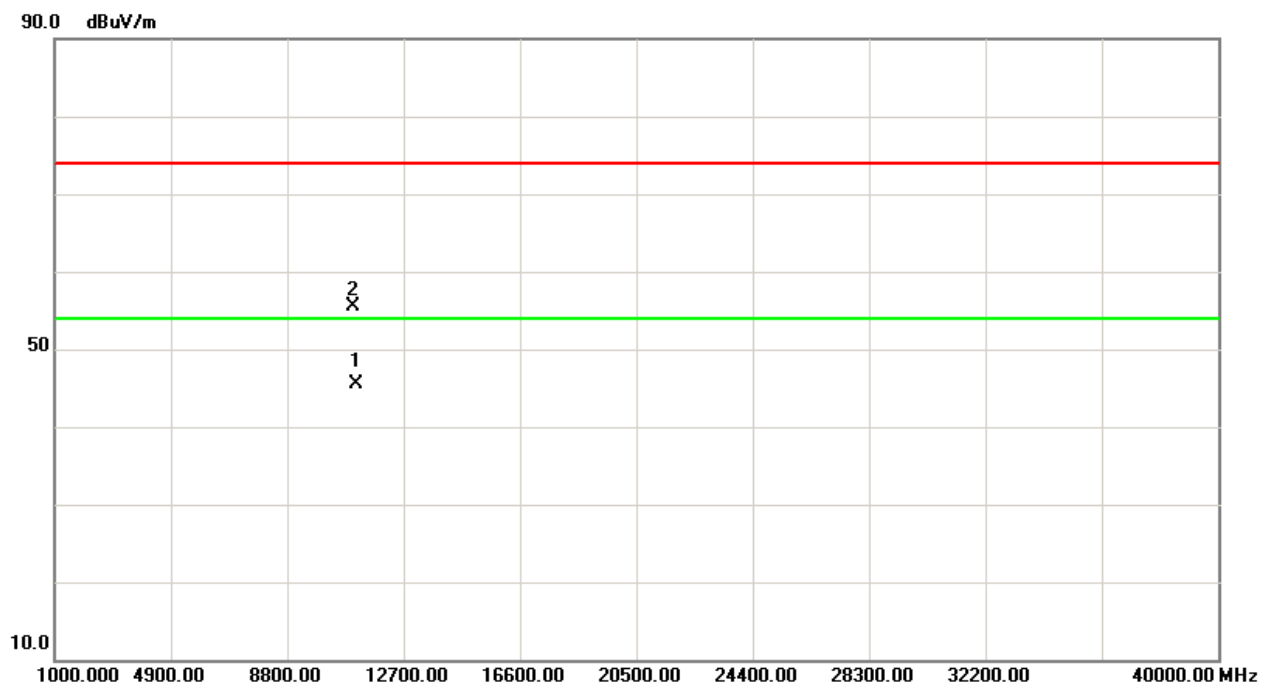
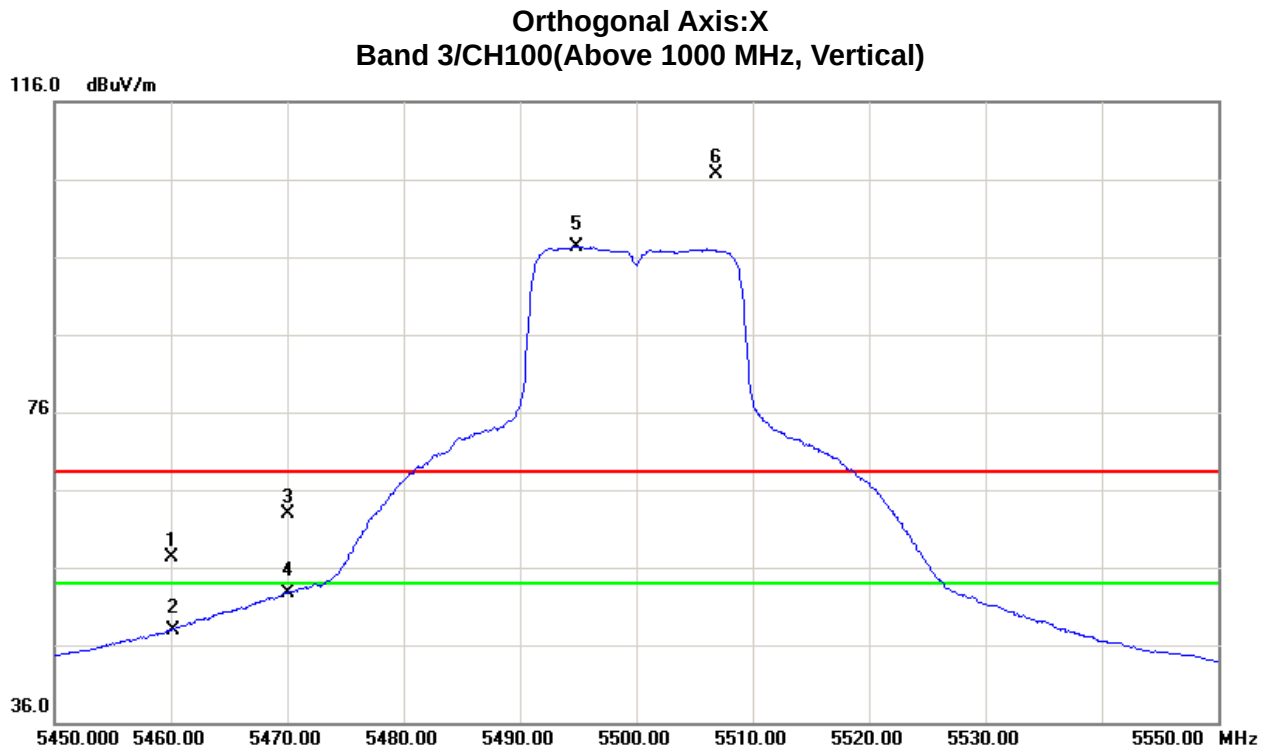
Test Mode : Band 3/ TX N20 Mode 5580MHz

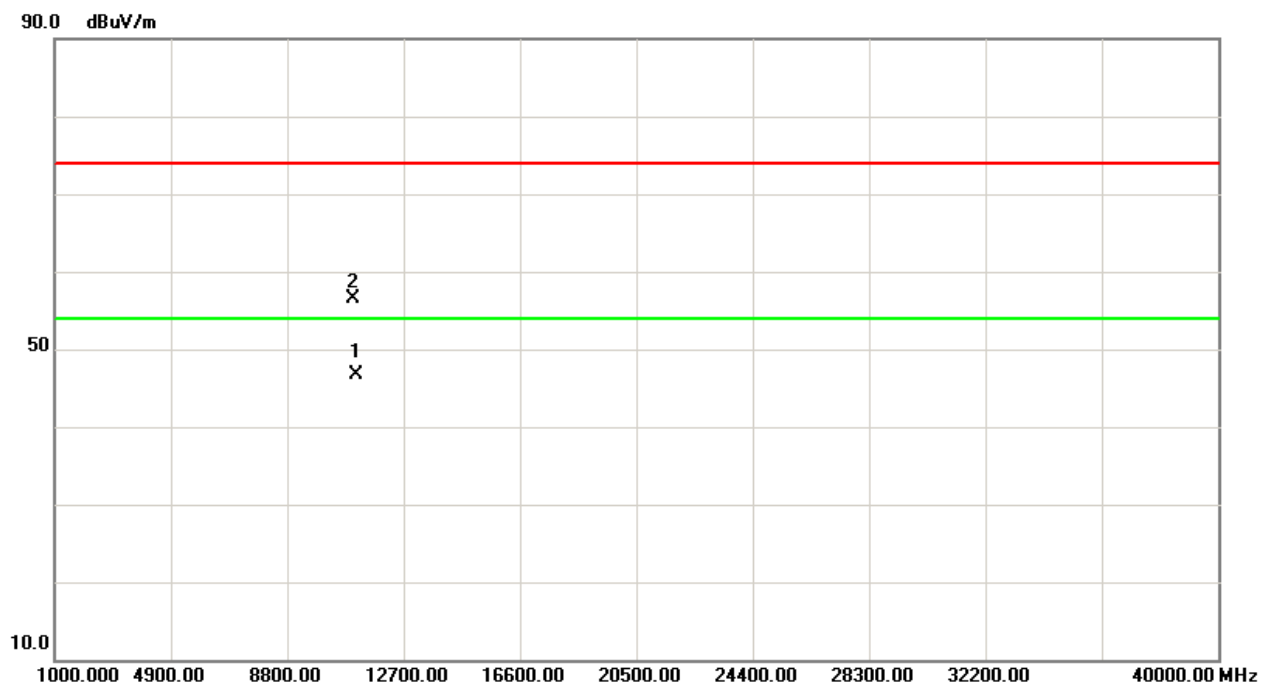
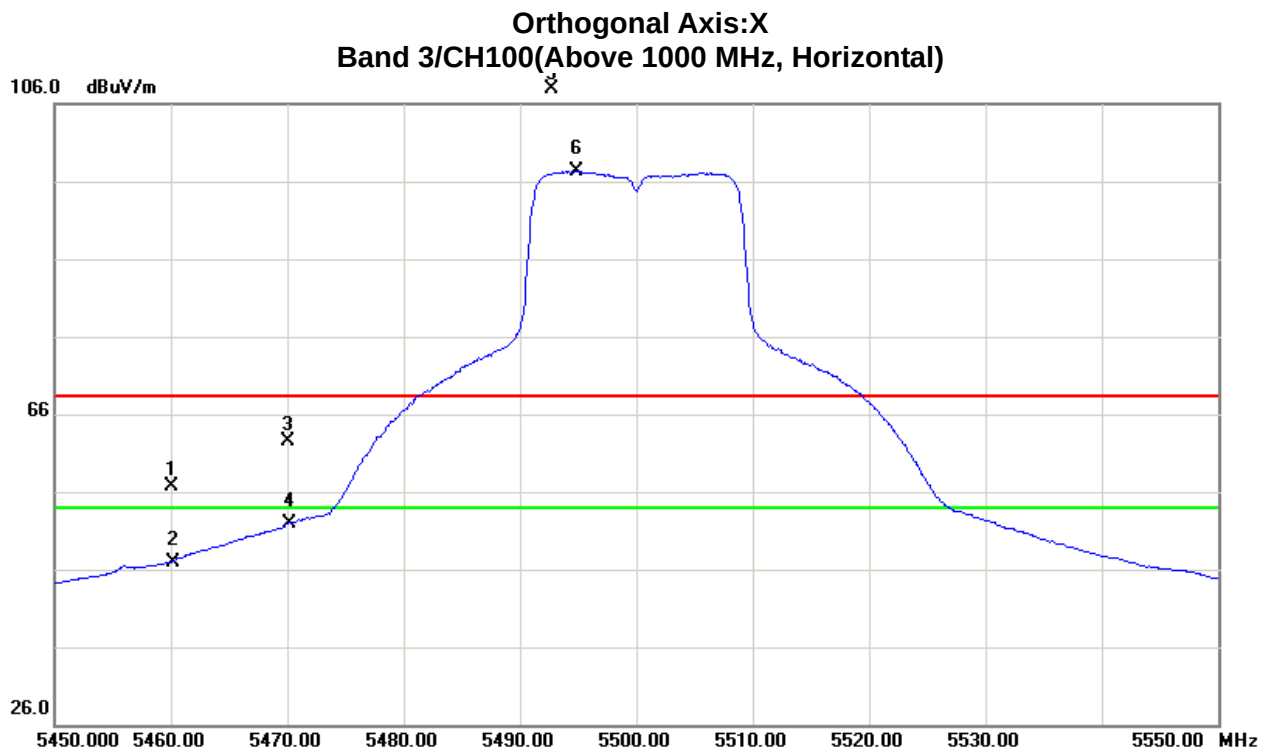
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5573.60	V	61.66	53.39	43.83	105.49	97.22	0.72	-7.55					X/F
11159.30	V	40.85	30.31	17.65	58.50	47.96	-46.27	-56.81	68.30	54.00	-27.00	-41.30	X/H
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5573.70	H	63.72	54.20	43.83	107.55	98.03	2.78	-6.74					X/F
11158.10	H	41.23	30.86	17.64	58.87	48.50	-45.90	-56.27	68.30	54.00	-27.00	-41.30	X/H

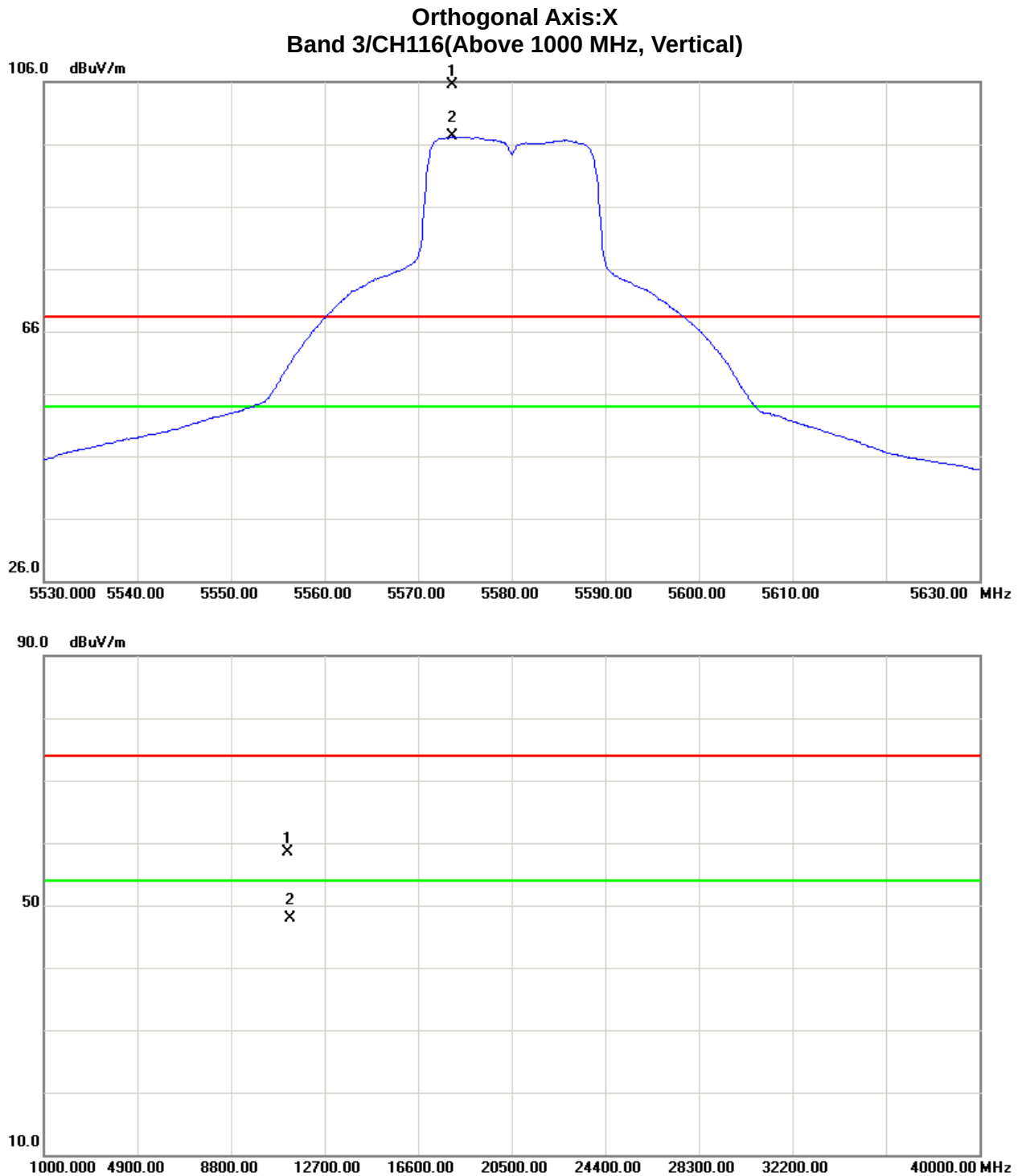
Test Mode : Band 3/ TX N20 Mode 5700MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5707.10	V	63.17	53.21	44.29	107.46	97.50	2.69	-7.27					X/F
5725.00	V	21.24	8.84	44.34	65.58	53.18	-39.19	-51.59	68.30	54.00	-27.00	-41.30	X/E
11400.00	V	39.66	29.47	18.24	57.90	47.71	-46.87	-57.06	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5704.90	H	62.93	53.13	44.28	107.21	97.41	2.44	-7.36					X/F
5725.00	H	19.79	8.09	44.34	64.13	52.43	-40.64	-52.34	68.30	54.00	-27.00	-41.30	X/E
11401.20	H	39.89	29.87	18.25	58.14	48.12	-46.63	-56.65	68.30	54.00	-27.00	-41.30	X/H

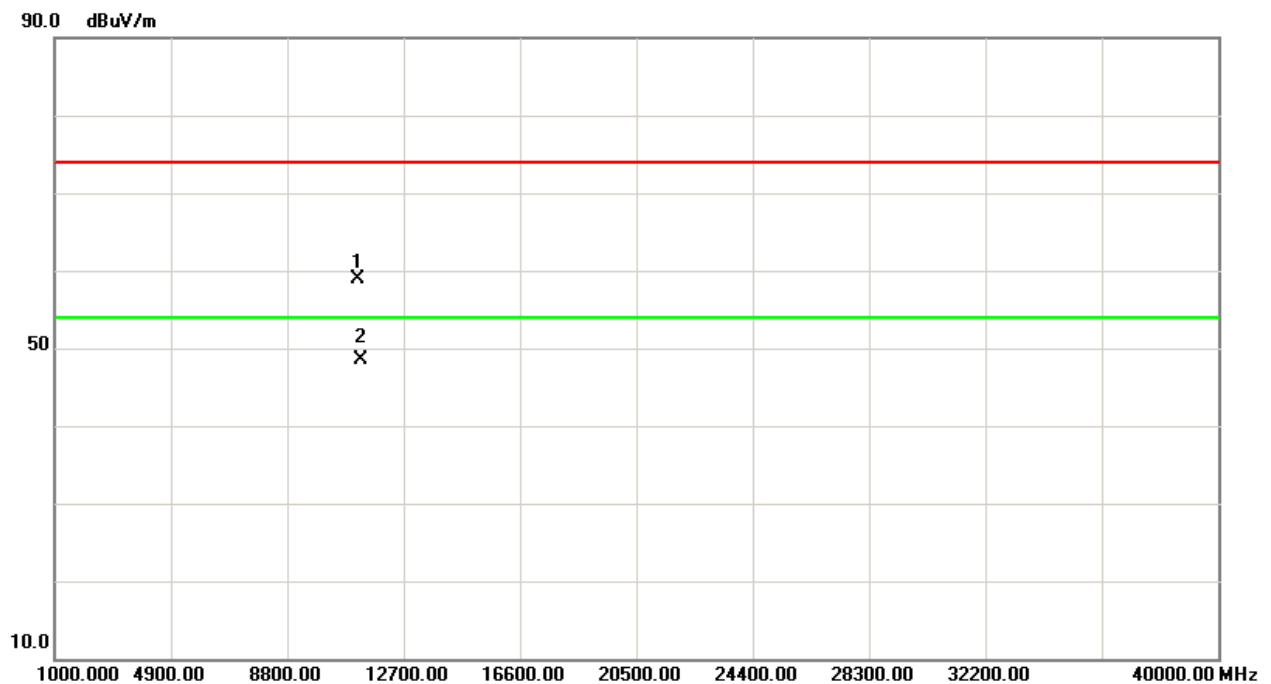
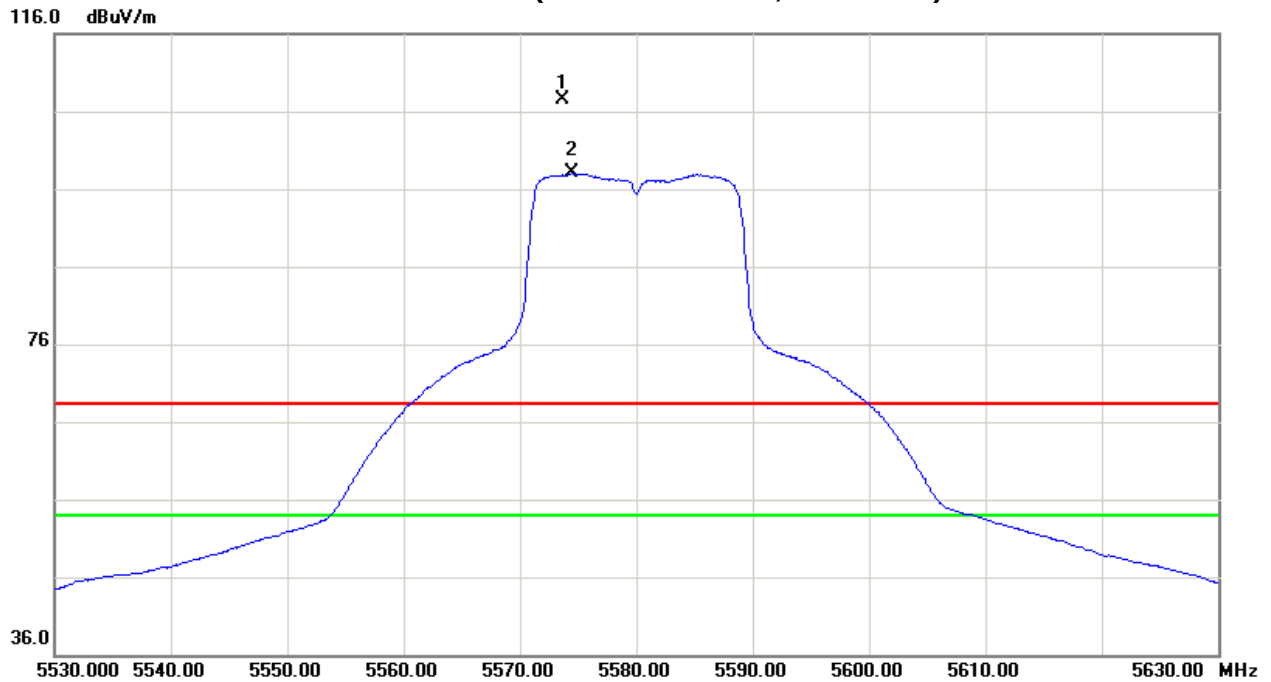






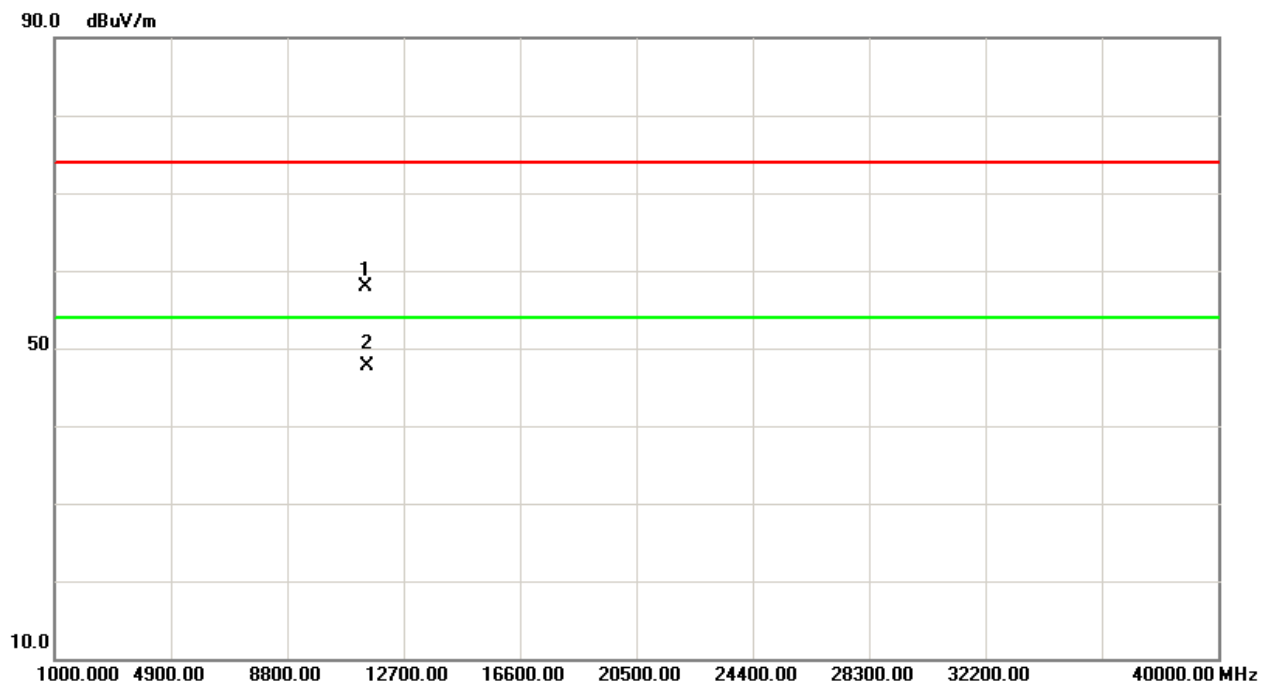
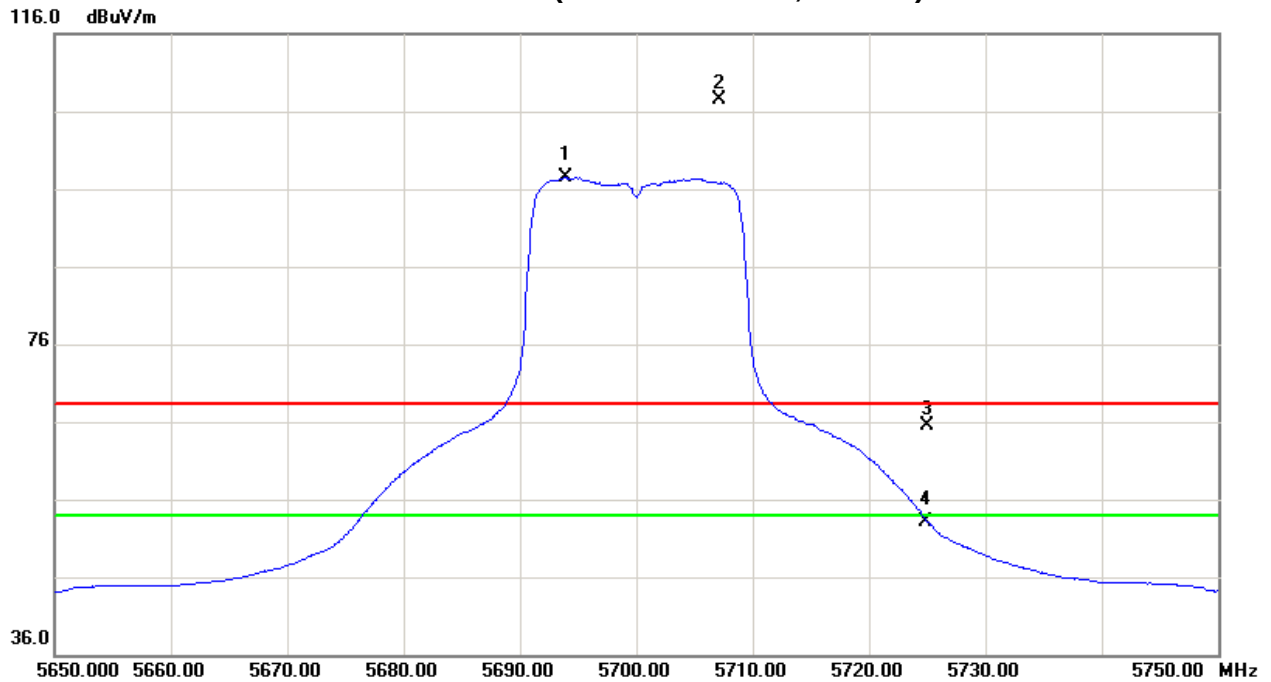


Orthogonal Axis:X
Band 3/CH116(Above 1000 MHz, Horizontal)



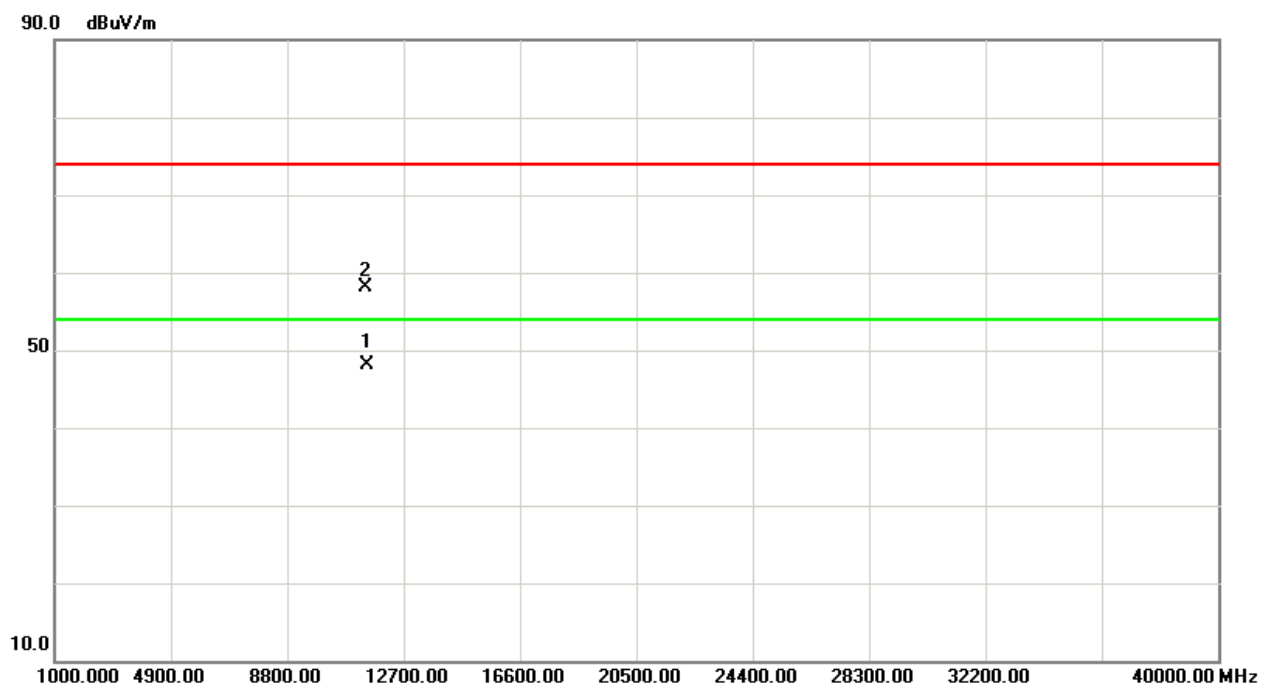
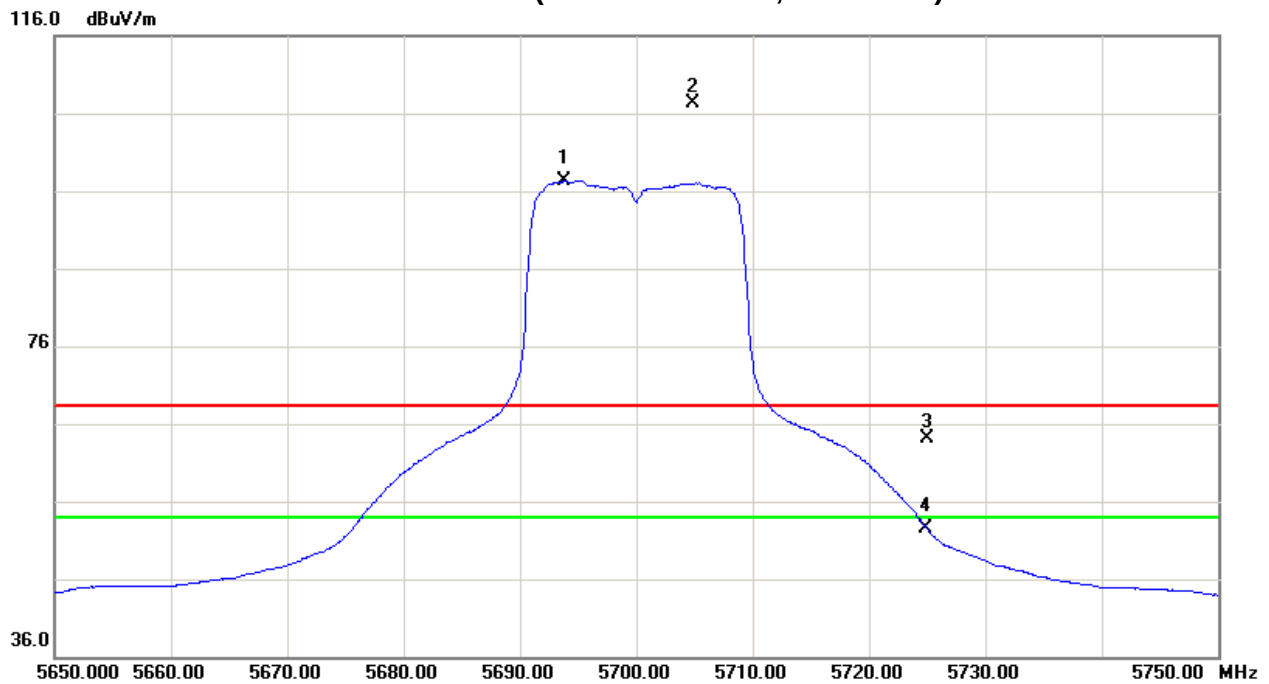


Orthogonal Axis:X
Band 3/CH140(Above 1000 MHz, Vertical)





Orthogonal Axis:X
Band 3/CH140(Above 1000 MHz, Horizontal)





Test Mode : Band 3/ TX N40 Mode 5510MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	V	12.95	2.05	43.49	56.44	45.54	-48.33	-59.23	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	19.34	7.07	43.50	62.84	50.57	-41.93	-54.20	68.30	54.00	-27.00	-41.30	X/E
5500.20	V	59.27	48.73	43.58	102.85	92.31	-1.92	-12.46					X/F
11020.20	V	36.86	29.67	17.31	54.17	46.98	-50.60	-57.79	68.30	54.00	-27.00	-41.30	X/H

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5460.00	H	11.70	2.01	43.49	55.19	45.50	-49.58	-59.27	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	19.26	7.52	43.50	62.76	51.02	-42.01	-53.75	68.30	54.00	-27.00	-41.30	X/E
5502.60	H	59.14	48.15	43.58	102.72	91.73	-2.05	-13.04					X/F
11019.10	H	36.02	29.91	17.31	53.33	47.22	-51.44	-57.55	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 3/ TX N40 Mode 5550MHz

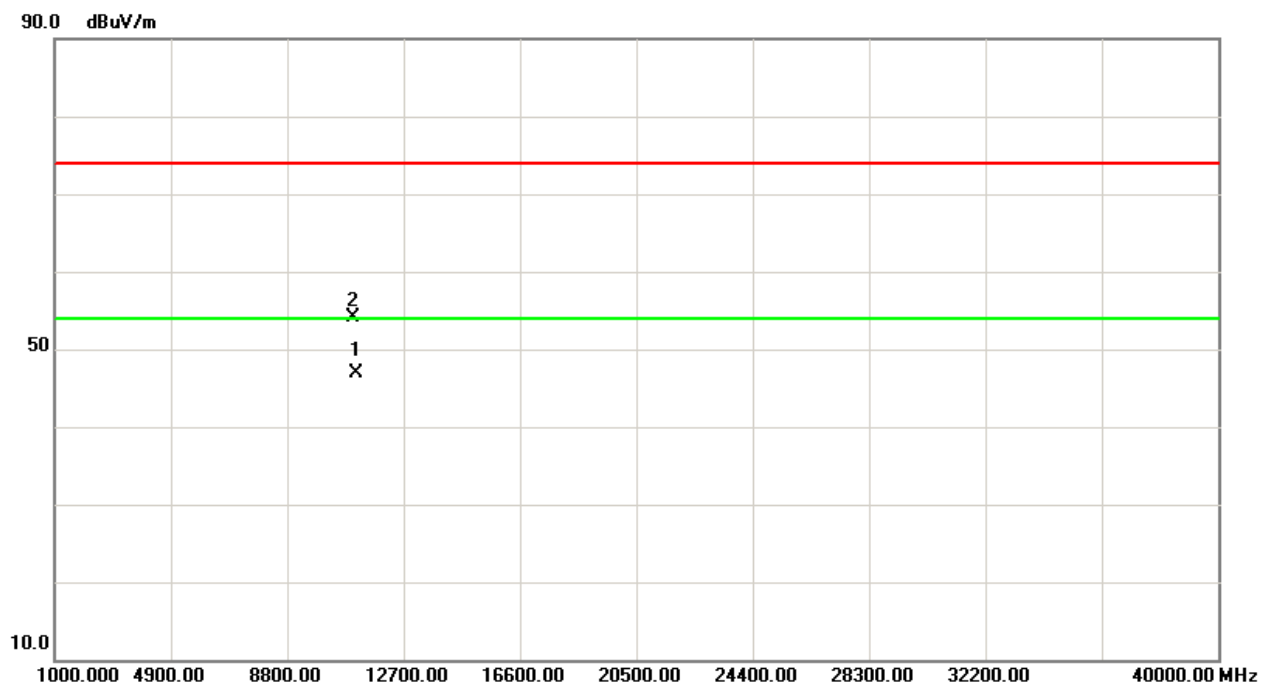
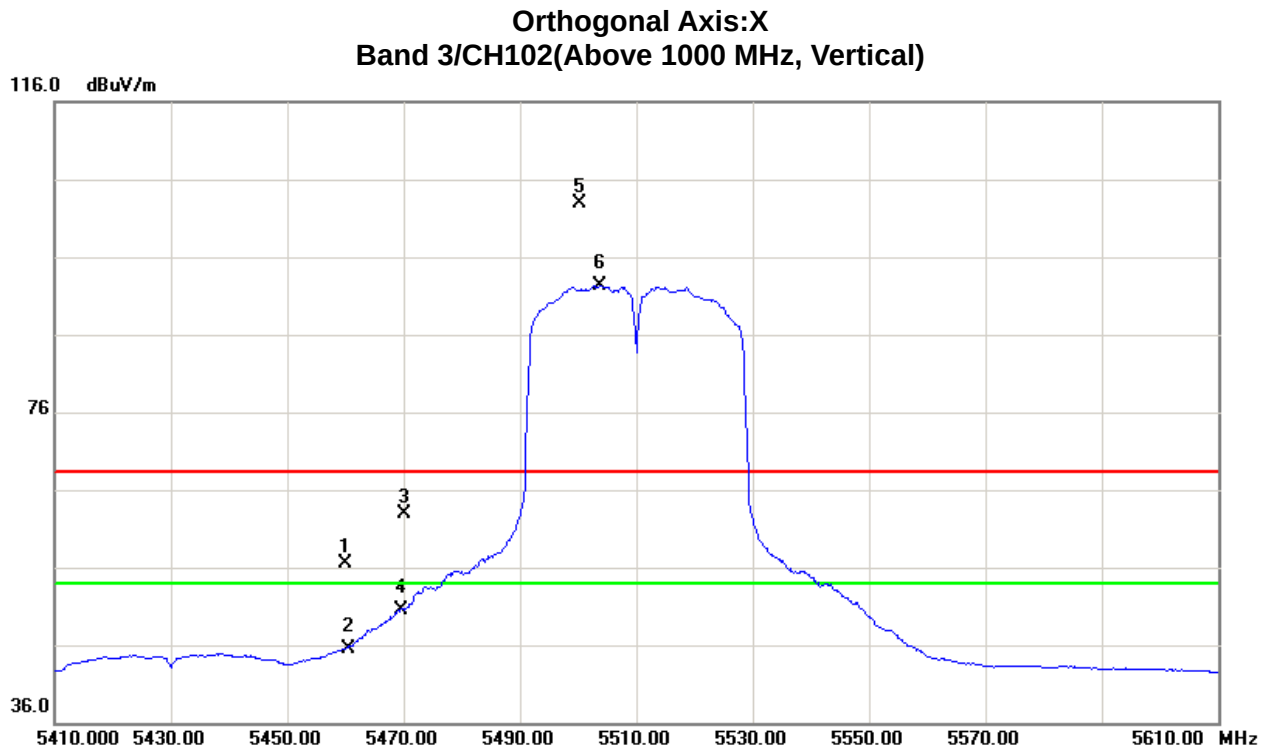
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5543.20	V	58.77	49.12	43.73	102.50	92.85	-2.27	-11.92					X/F
11101.90	V	36.78	27.98	17.51	54.29	45.49	-50.48	-59.28	68.30	54.00	-27.00	-41.30	X/H

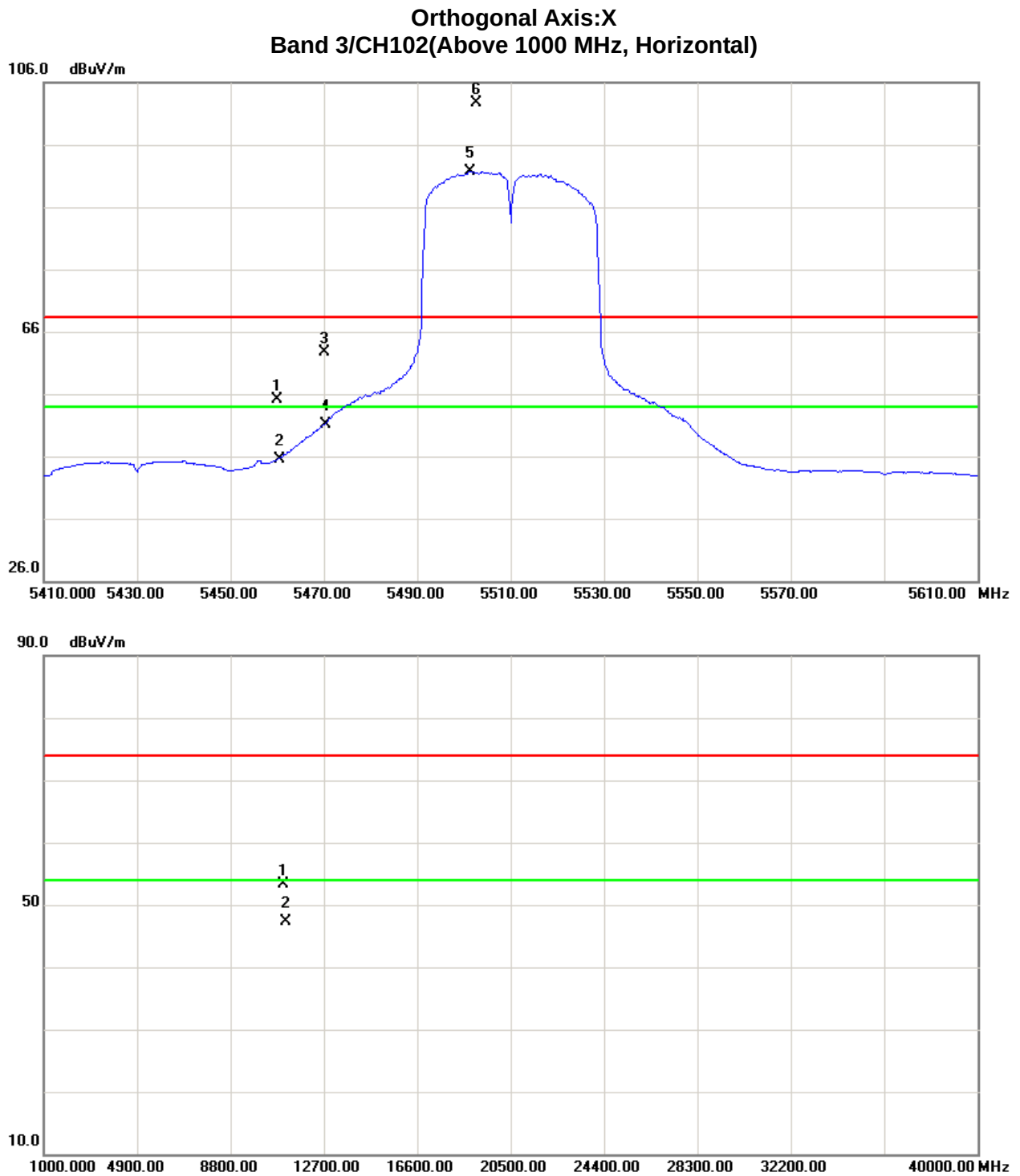
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5543.20	H	59.47	48.89	43.73	103.20	92.62	-1.57	-12.15					X/F
11100.00	H	39.46	27.94	17.51	56.97	45.45	-47.80	-59.32	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 3/ TX N40 Mode 5670MHz

Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5662.80	V	61.90	51.14	44.14	106.04	95.28	1.27	-9.49					X/F
5725.00	V	15.64	57.97	44.34	59.98	102.31	-44.79	-2.46	68.30	54.00	-27.00	-41.30	X/E
11341.10	V	38.13	27.86	18.10	56.23	45.96	-48.54	-58.81	68.30	54.00	-27.00	-41.30	X/H

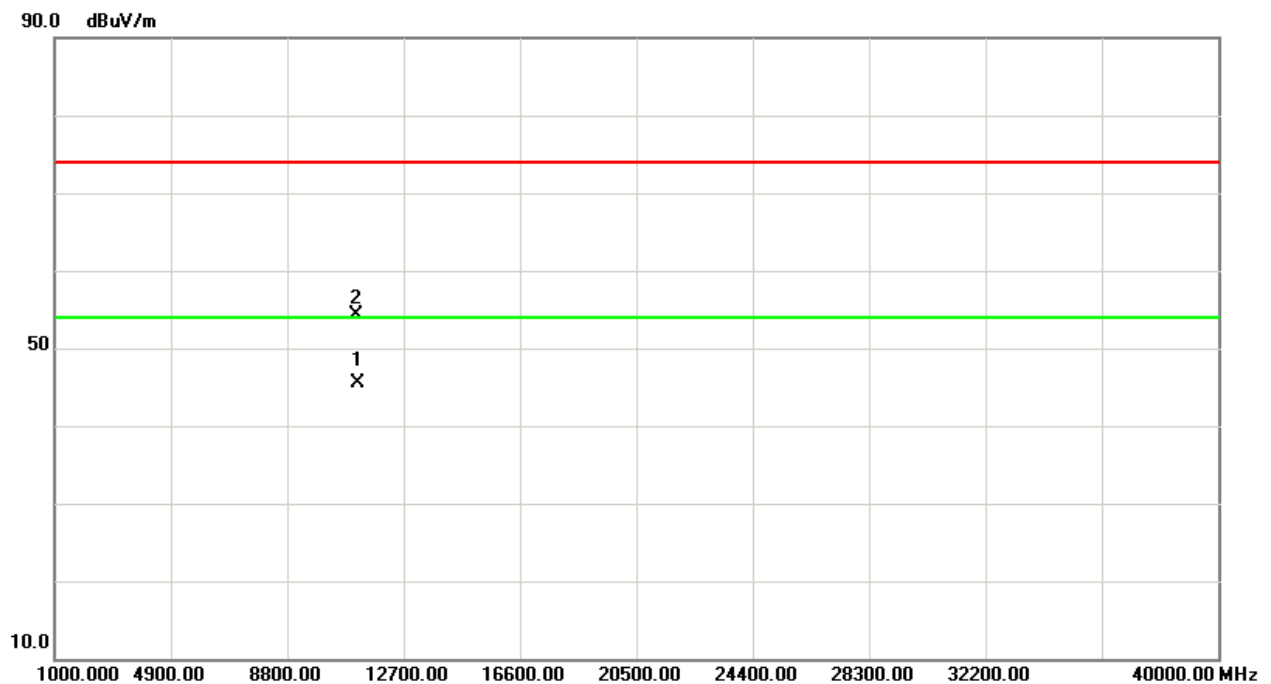
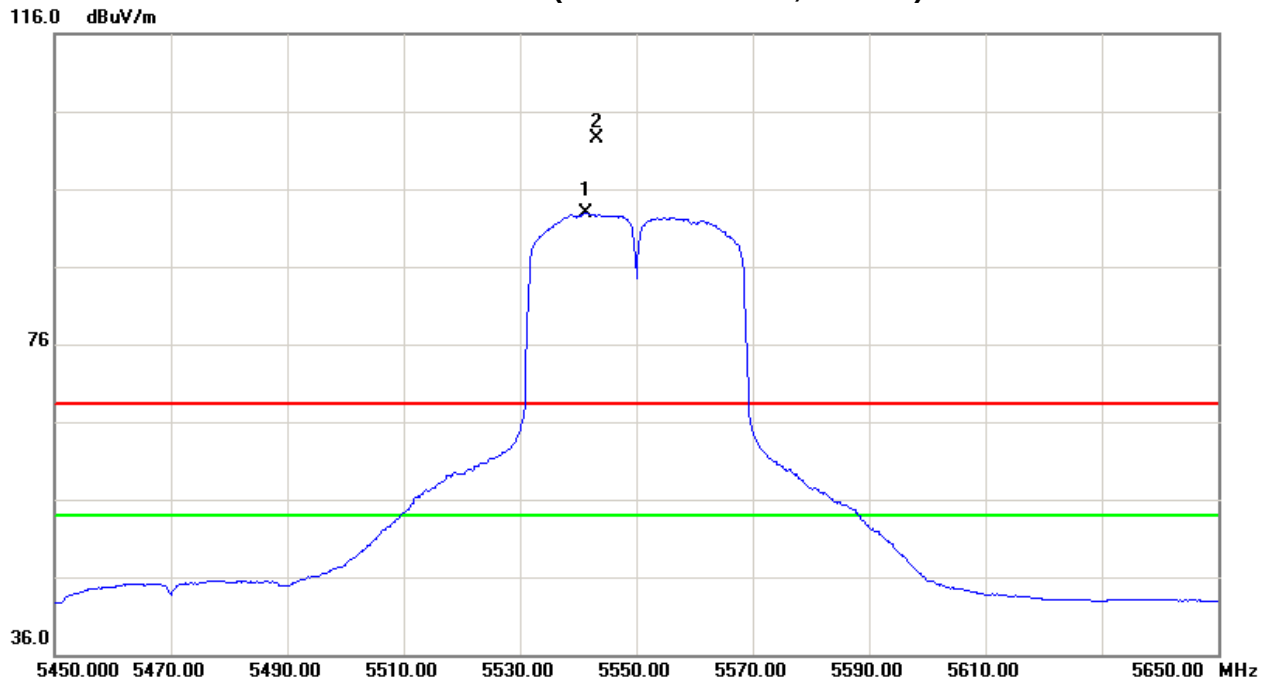
Freq. (MHz)	Ant.Pd. H/V	Reading		Ant./CF CF(dB)	Act.(dBuV/m)		Act.(dBm)		Limit(dBuV/m)		Limit(dBm)		Note
		Peak (dBuV)	AV (dBuV)		Peak	AV	Peak	AV	Peak	AV	Peak	AV	
5665.20	H	61.53	51.56	44.15	105.68	95.71	0.91	-9.06					X/F
5725.00	H	9.01	13.96	6.53	44.34	20.49	-60.43	-84.28	68.30	54.00	-27.00	-41.30	X/E
11340.10	H	37.14	27.45	18.10	55.24	45.55	-49.53	-59.22	68.30	54.00	-27.00	-41.30	X/H

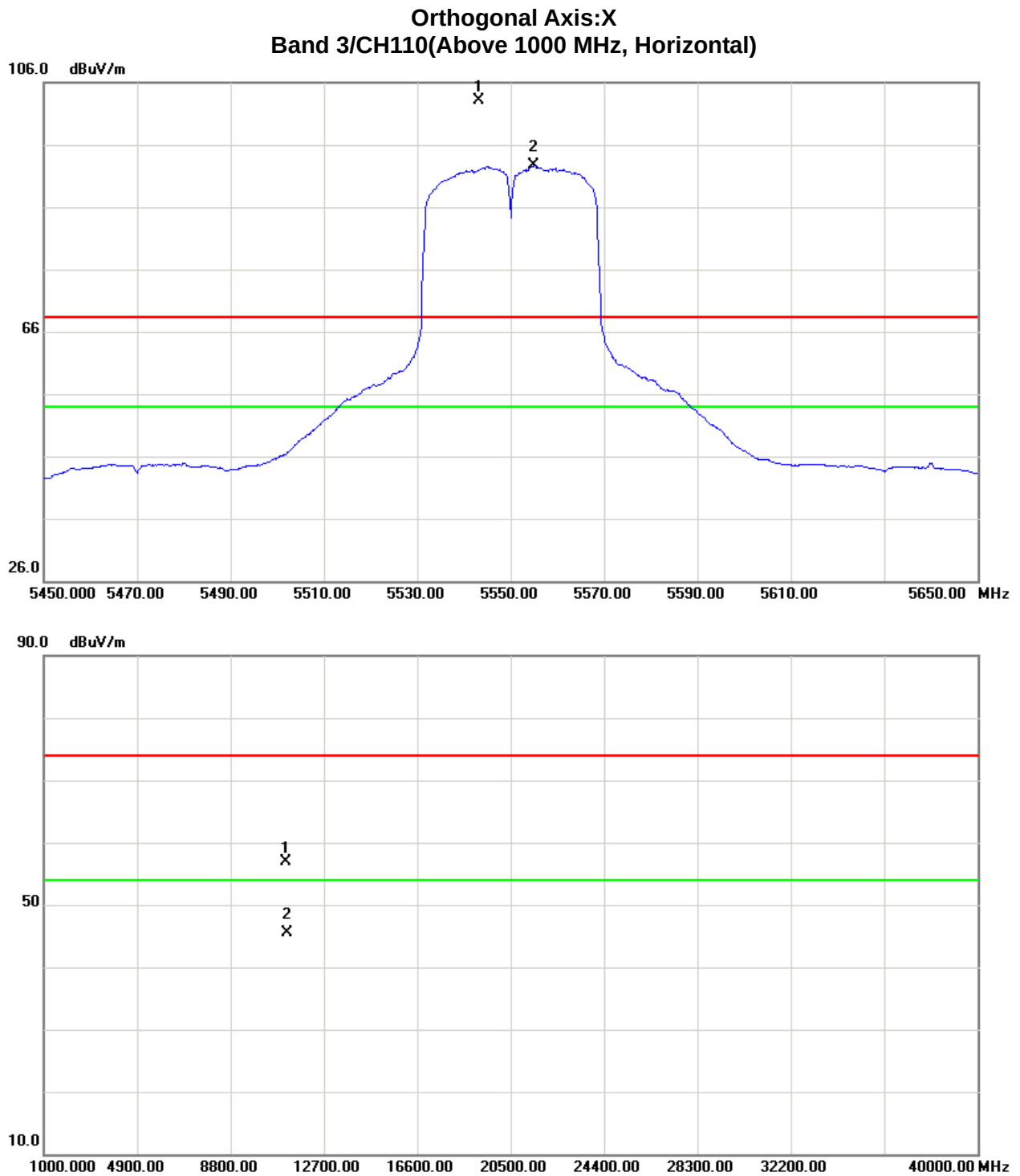






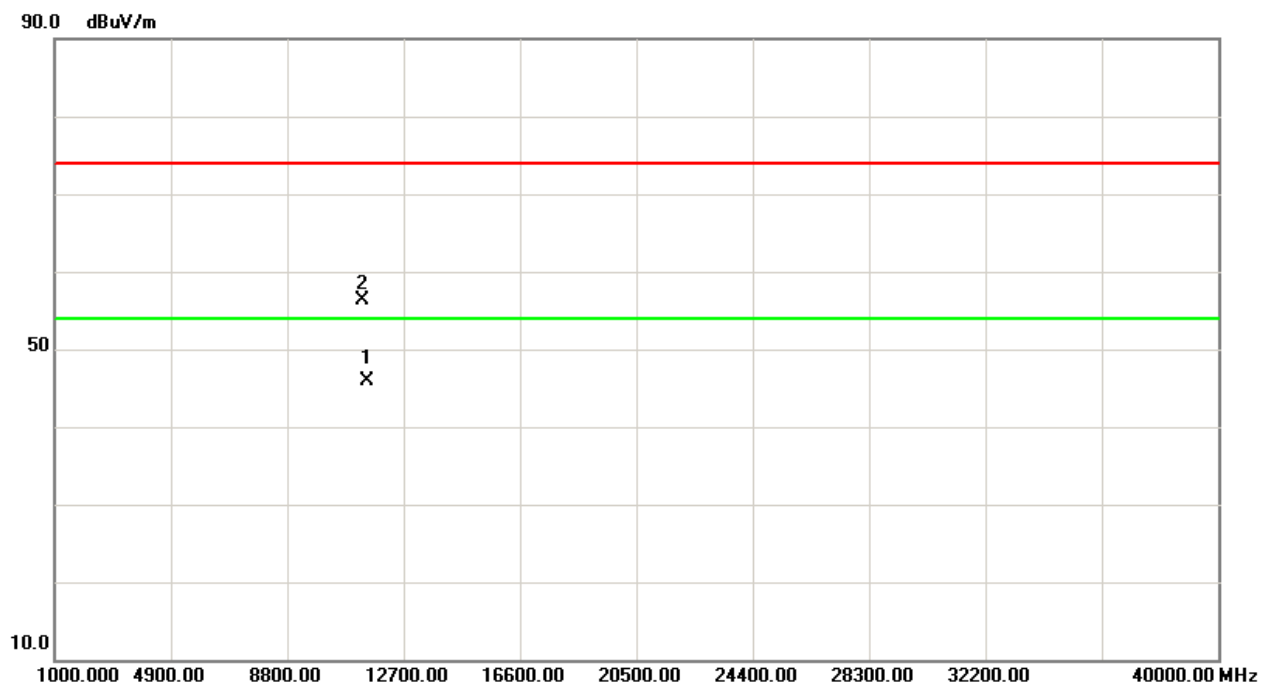
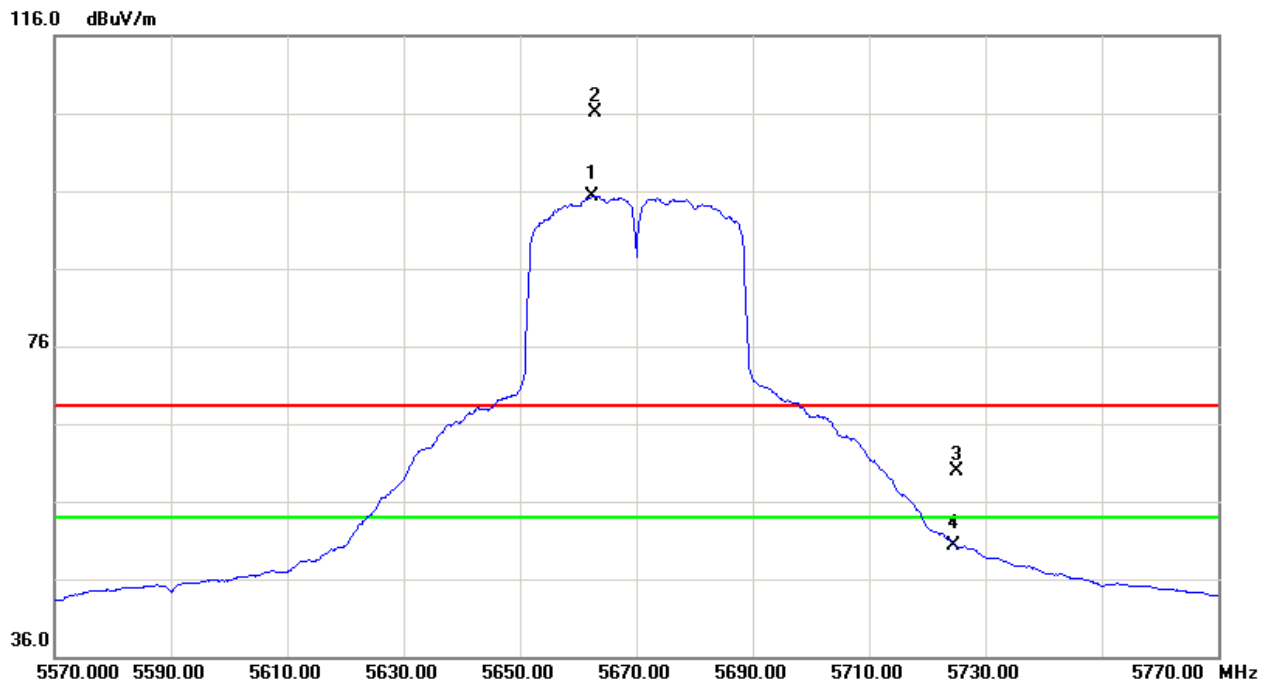
Orthogonal Axis:X
Band 3/CH110(Above 1000 MHz, Vertical)





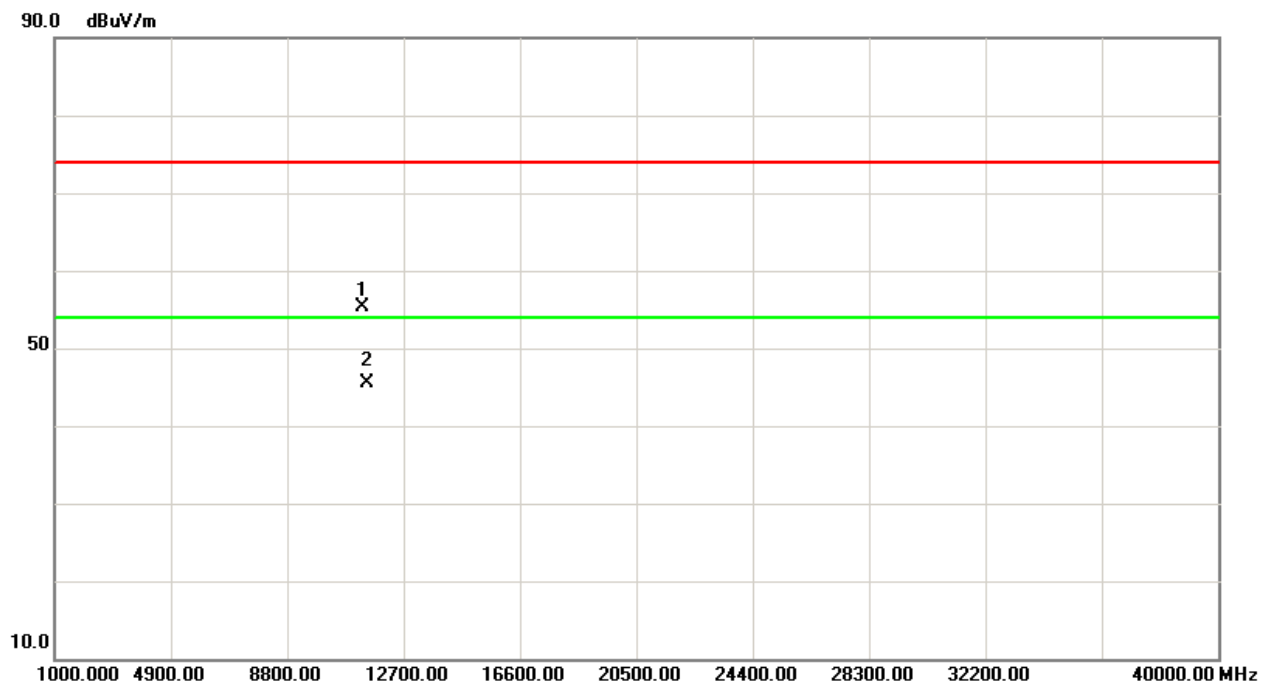
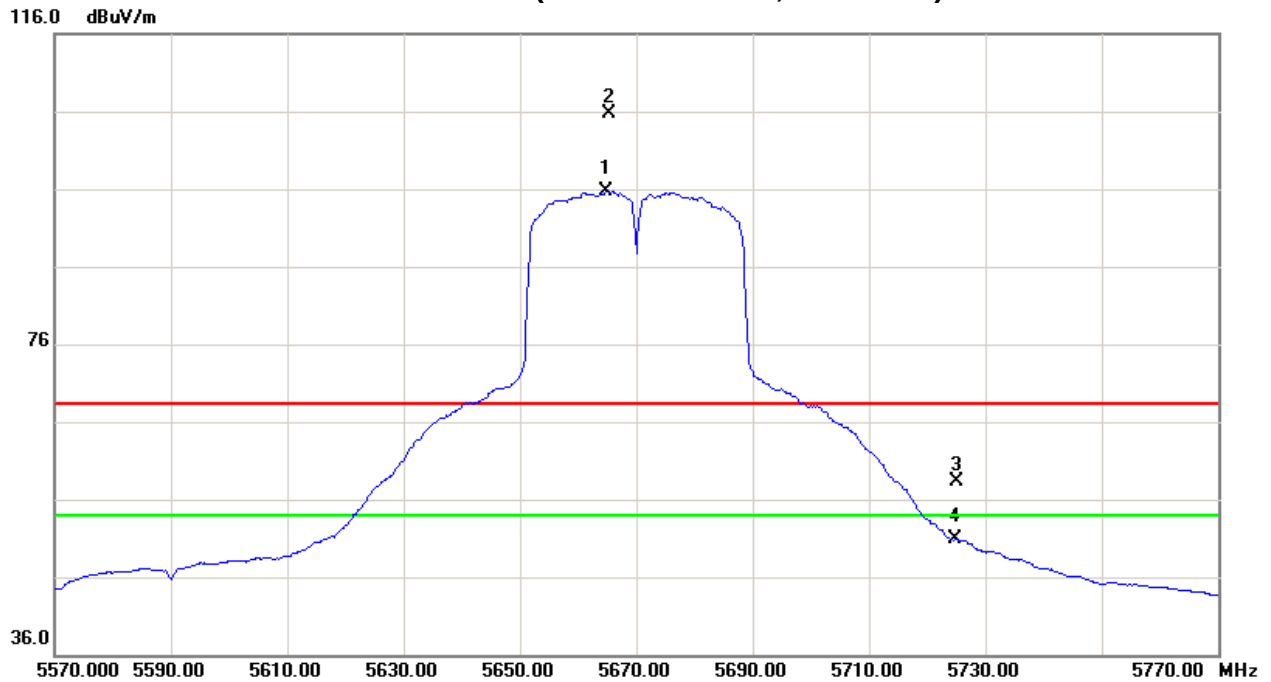


Orthogonal Axis:X
Band 3/CH134(Above 1000 MHz, Vertical)





Orthogonal Axis:X
Band 3/CH134(Above 1000 MHz, Horizontal)





5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Limit	Frequency Range (MHz)	Result
26 dB Bandwidth	-----	5150MHz~5250 5250MHz~5350 5470MHz~5725	PASS

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RB	300 kHz
VB	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

- c. Measured the spectrum width with power higher than 26dB below carrier

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C

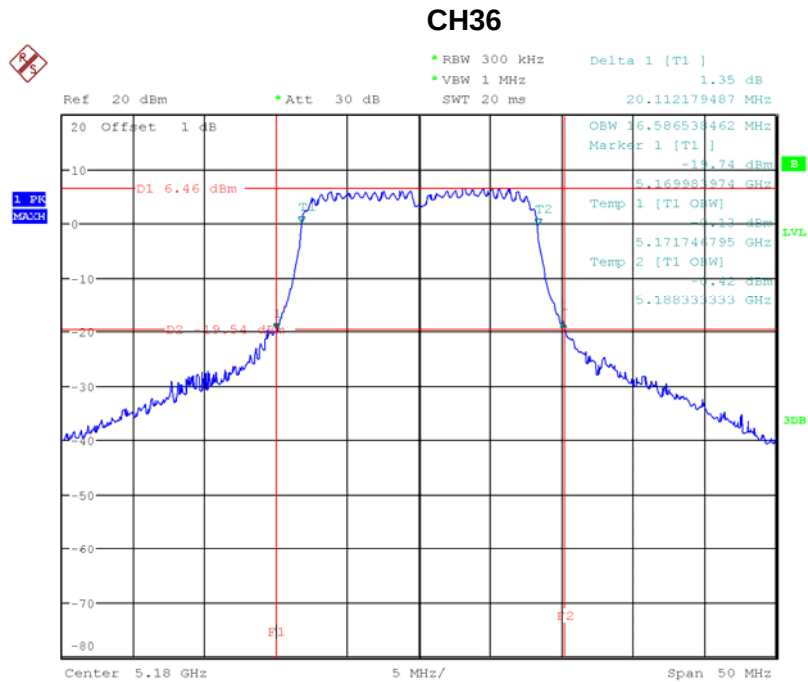
Relative Humidity: 55%

Test Voltage: 120V/60Hz



5.1.6 TEST RESULTS

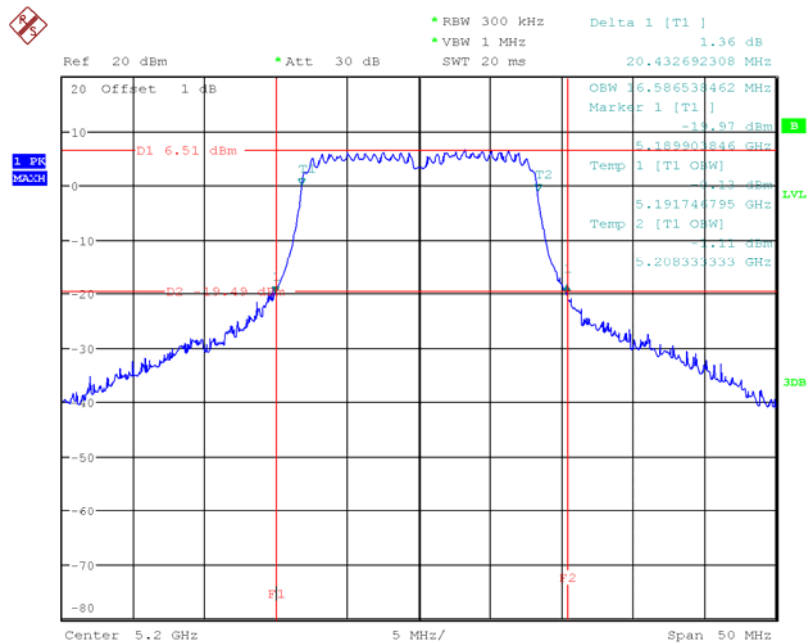
Test Mode : Band 1/TX A Mode_CH36/40/48



Date: 19.JAN.2014 10:55:53

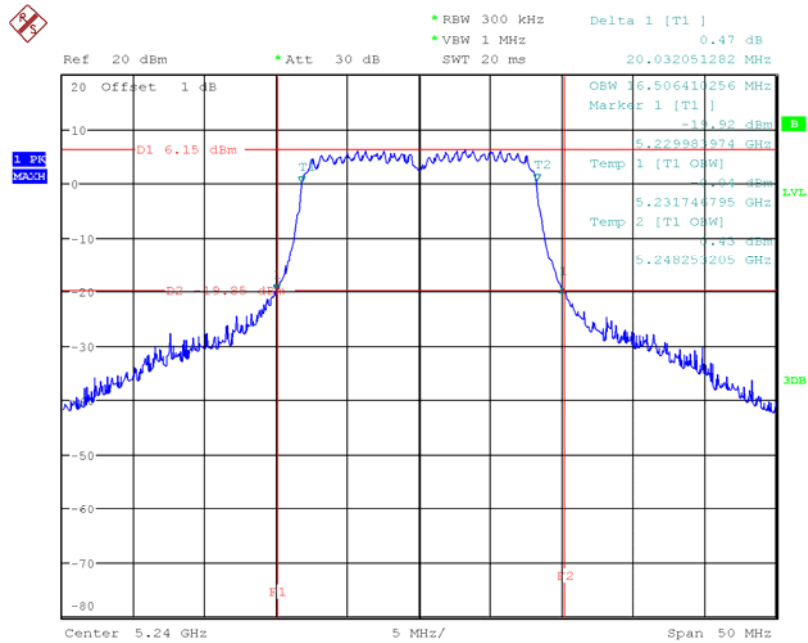


CH40



Date: 19.JAN.2014 11:05:46

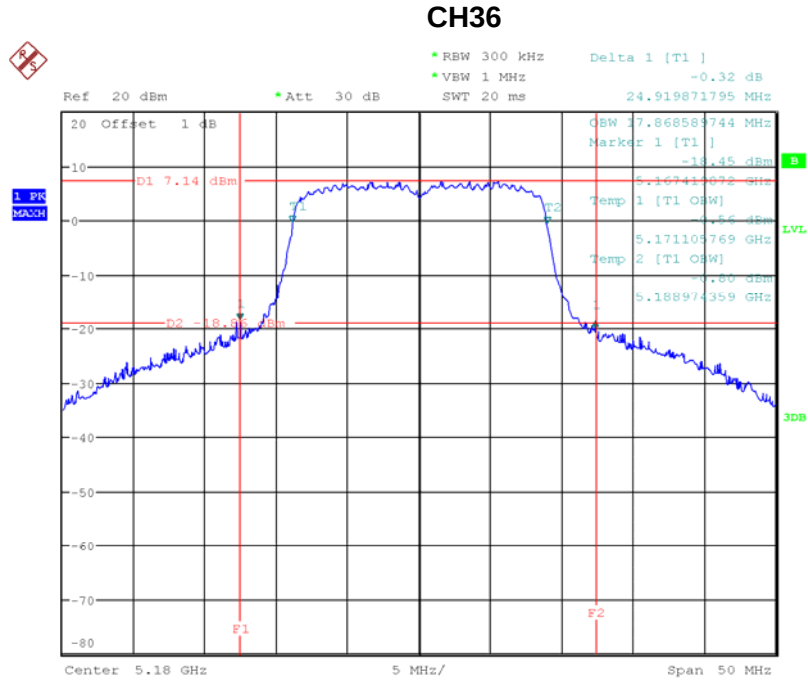
CH48



Date: 19.JAN.2014 11:10:44



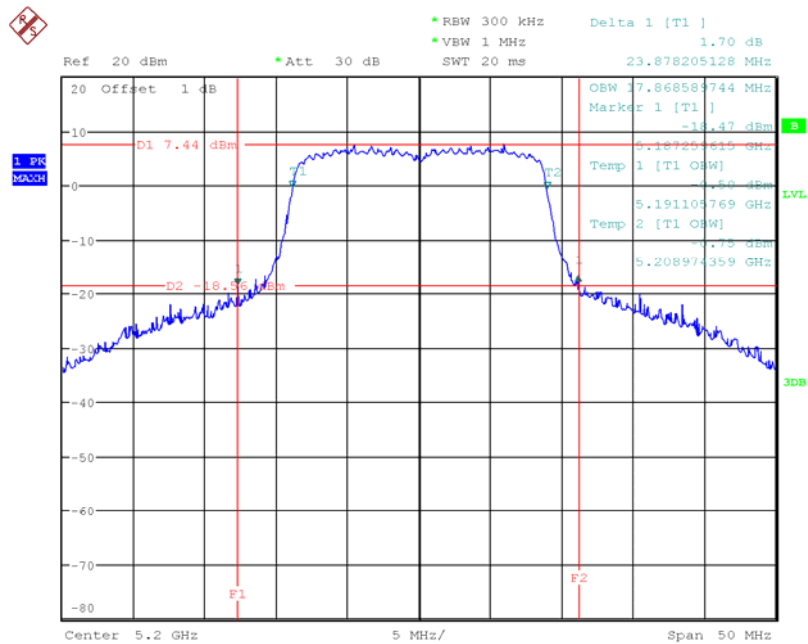
Test Mode : Band 1/TXN20 Mode_CH36/40/48-ANT 1



Date: 19.JAN.2014 13:29:44

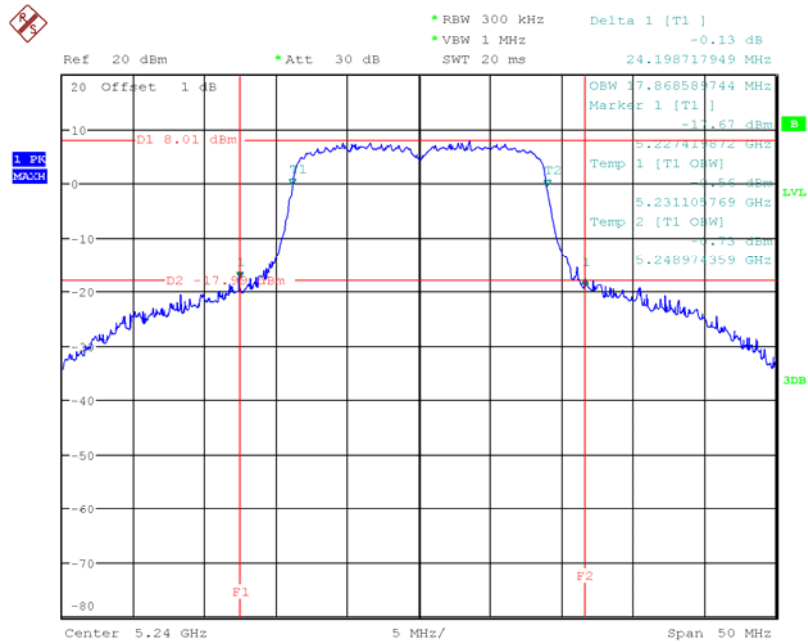


CH40



Date: 19.JAN.2014 13:33:23

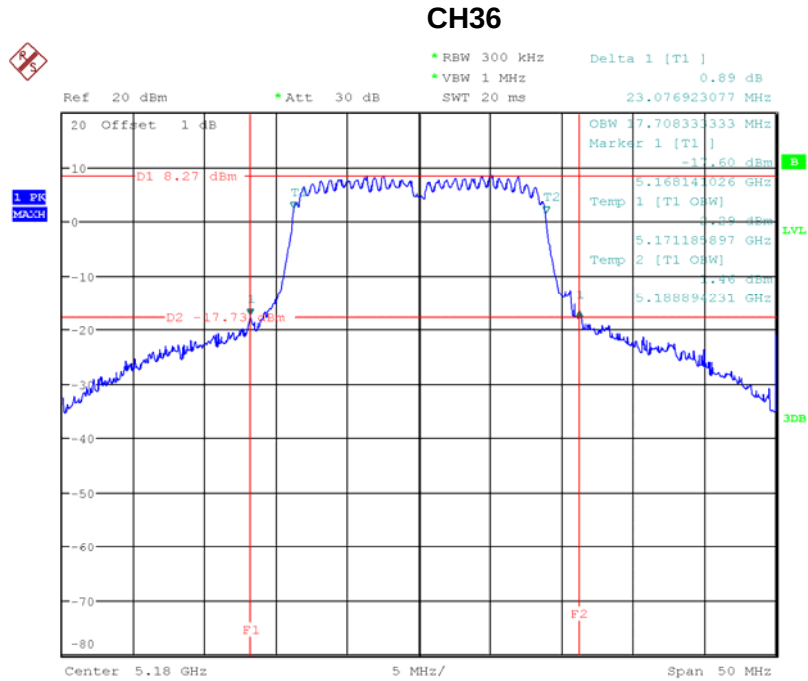
CH48



Date: 19.JAN.2014 13:36:25



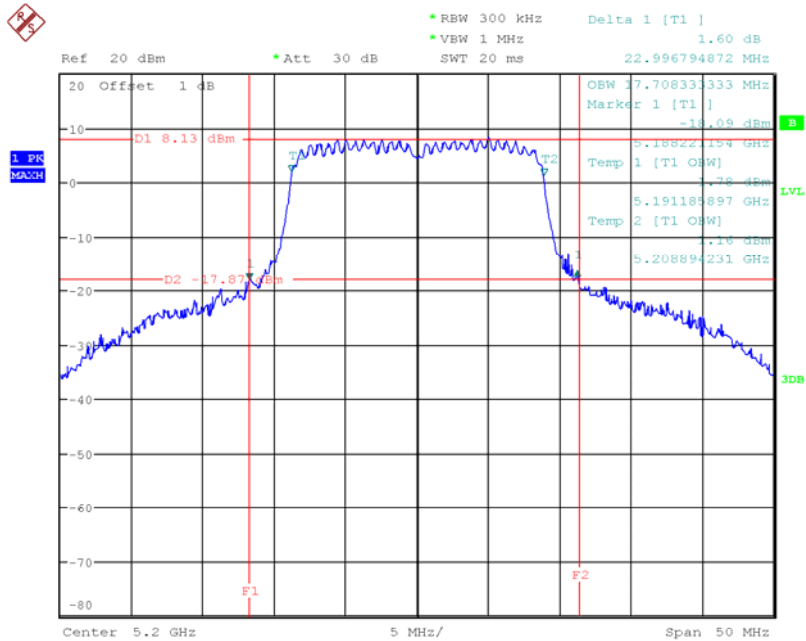
Test Mode : Band 1/TXN20 Mode_CH36/40/48-ANT 2



Date: 19.JAN.2014 12:16:47

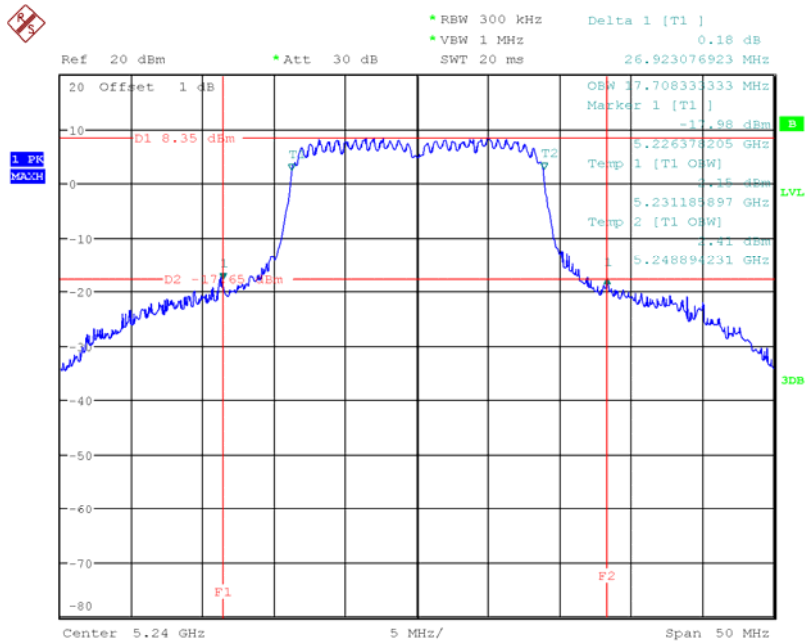


CH40



Date: 19.JAN.2014 12:20:36

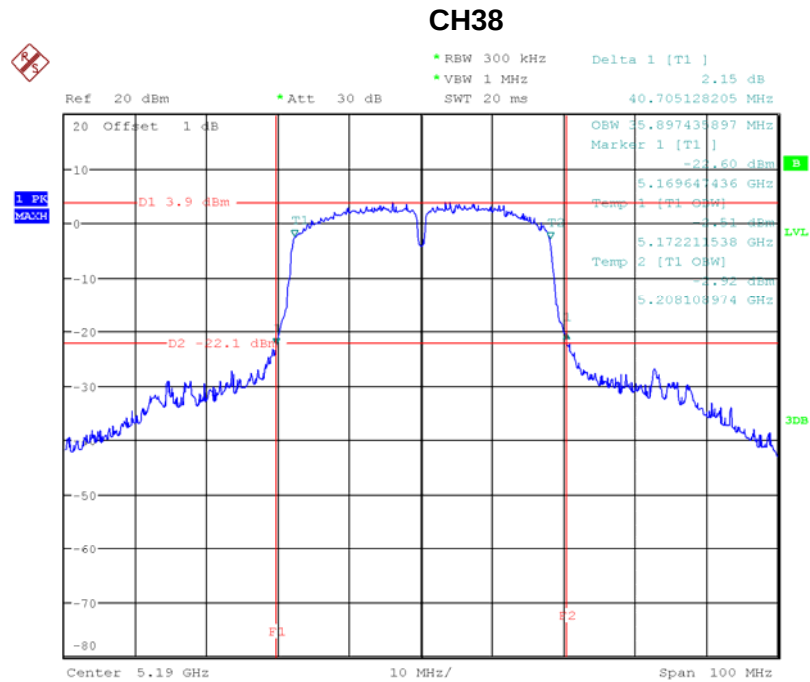
CH48



Date: 19.JAN.2014 12:23:41



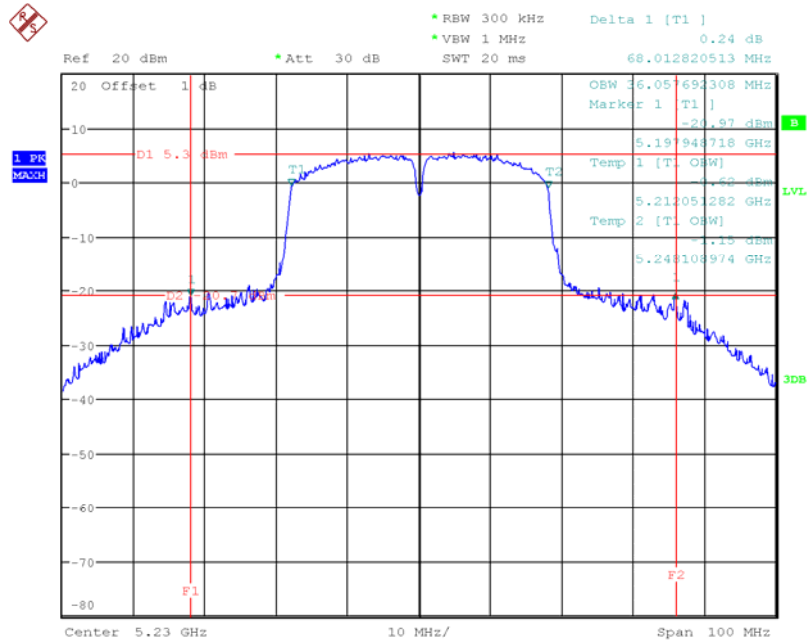
Test Mode : Band 1/TX N40 Mode_CH38/46-ANT 1



Date: 19.JAN.2014 14:07:40



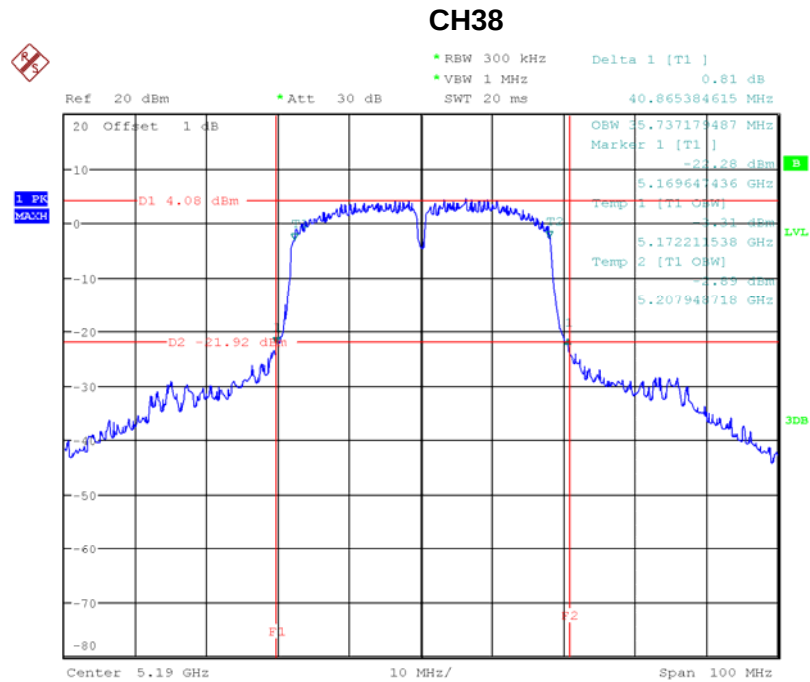
CH46



Date: 19.JAN.2014 14:11:18



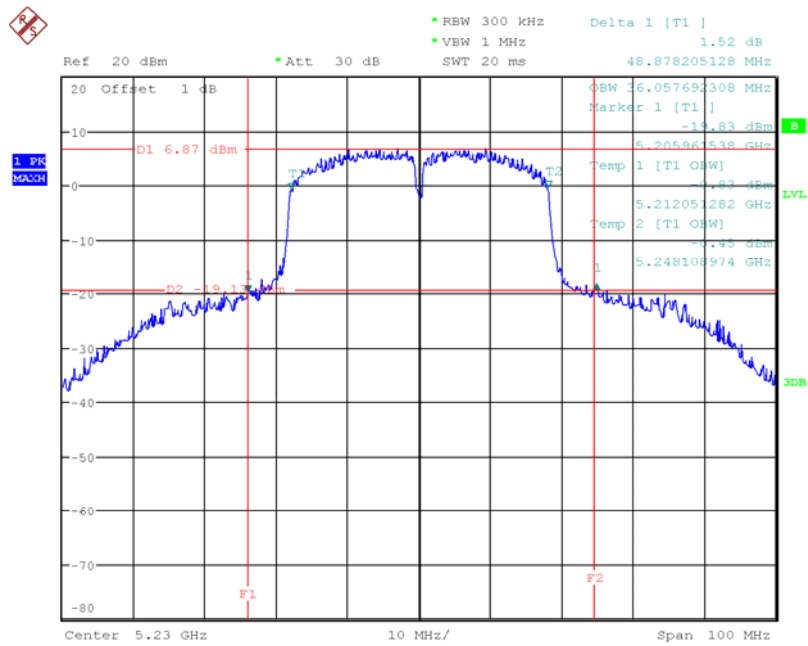
Test Mode : Band 1/TX N40 Mode_CH38/46-ANT 2



Date: 19.JAN.2014 14:56:43



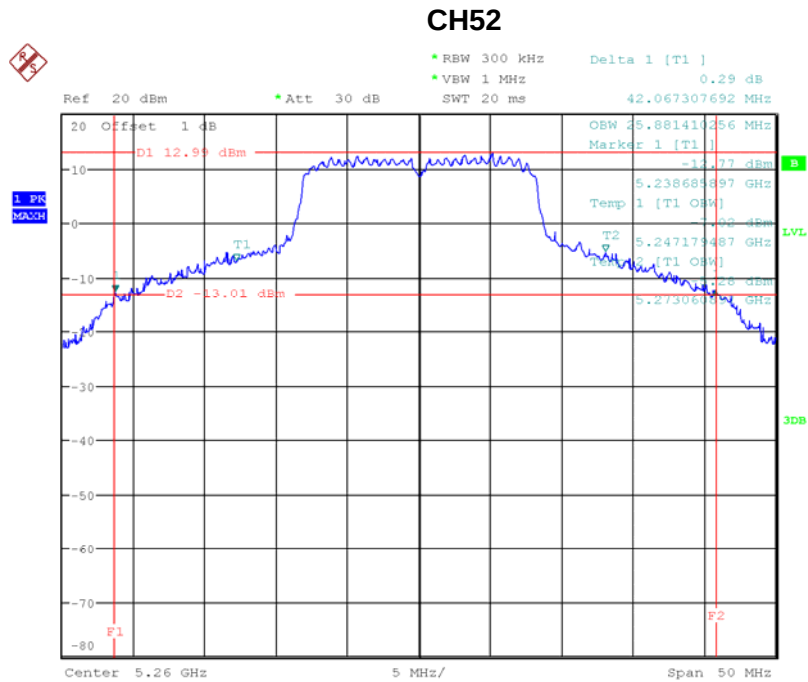
CH46



Date: 19.JAN.2014 15:02:52



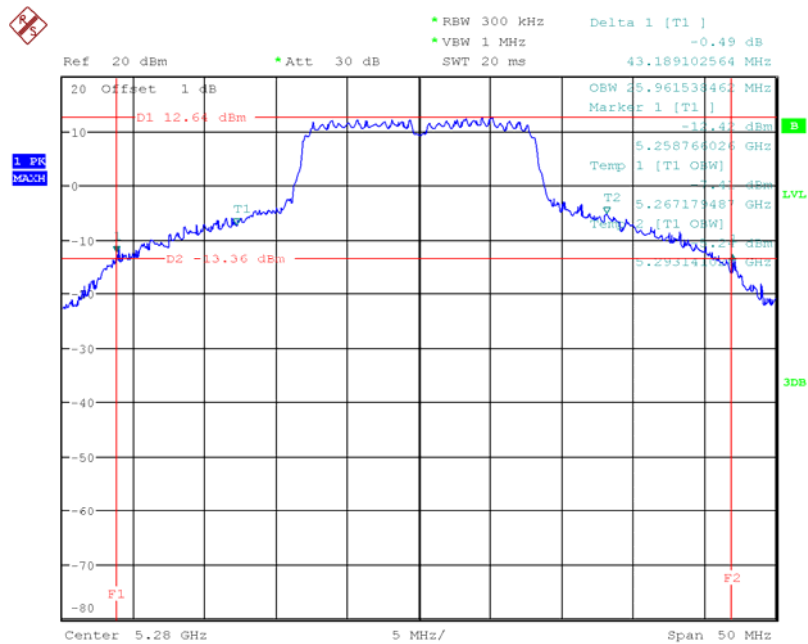
Test Mode : Band 2/TX A Mode_CH52/56/64



Date: 19.JAN.2014 11:41:39

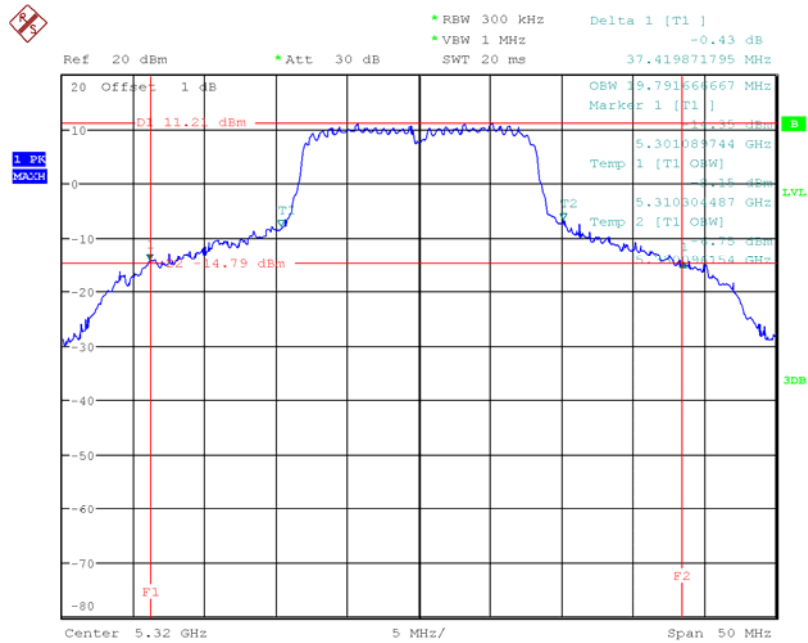


CH56



Date: 19.JAN.2014 11:53:05

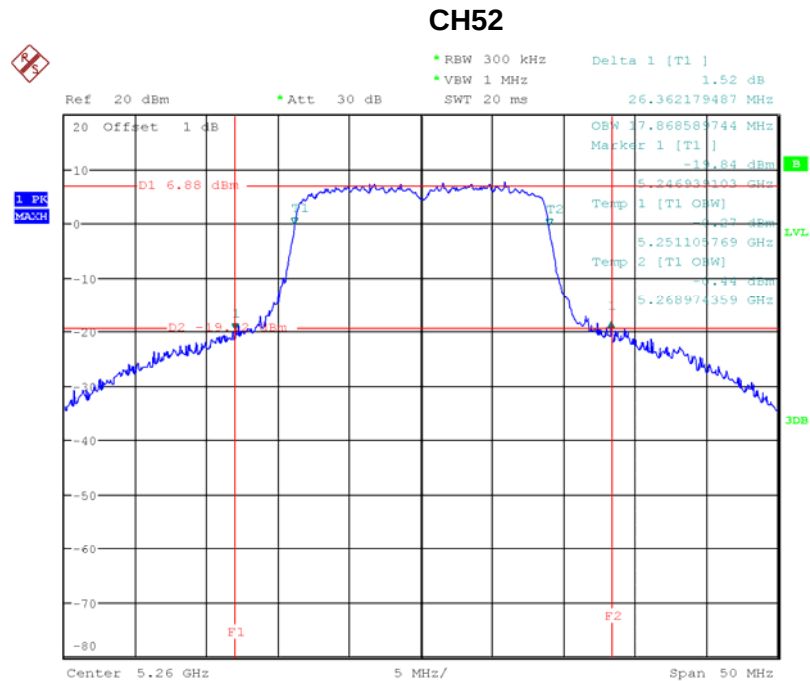
CH64



Date: 19.JAN.2014 11:56:25



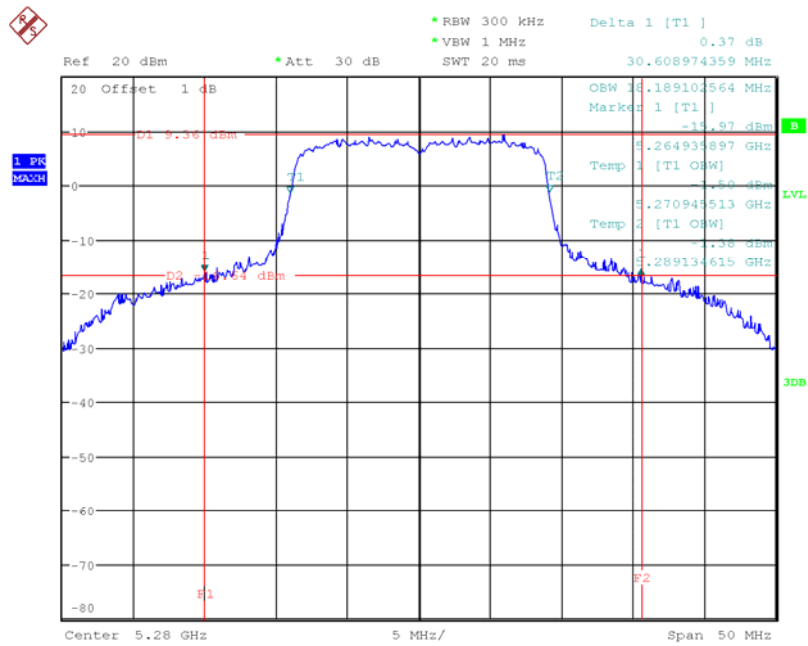
Test Mode : Band 2/TX N20 Mode_CH52/56/64-ANT 1



Date: 19.JAN.2014 13:41:49

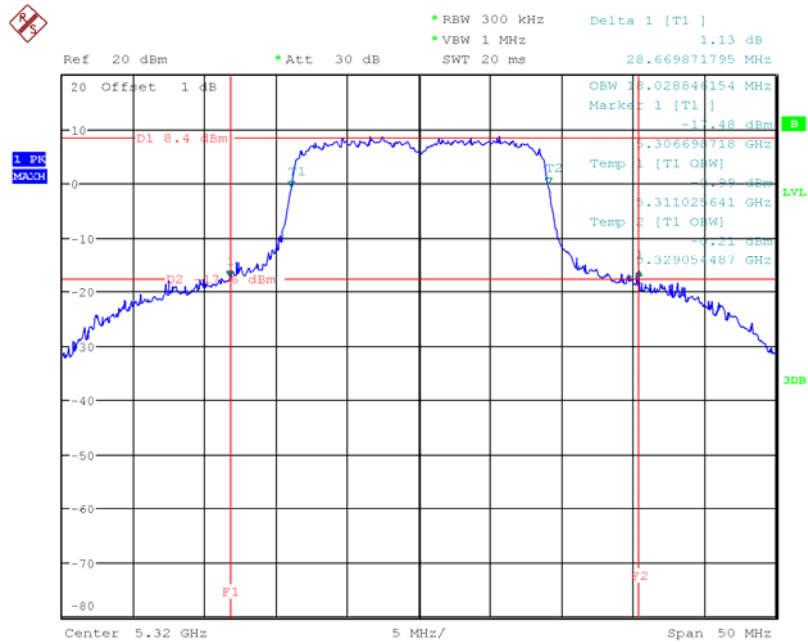


CH56



Date: 19.JAN.2014 13:45:58

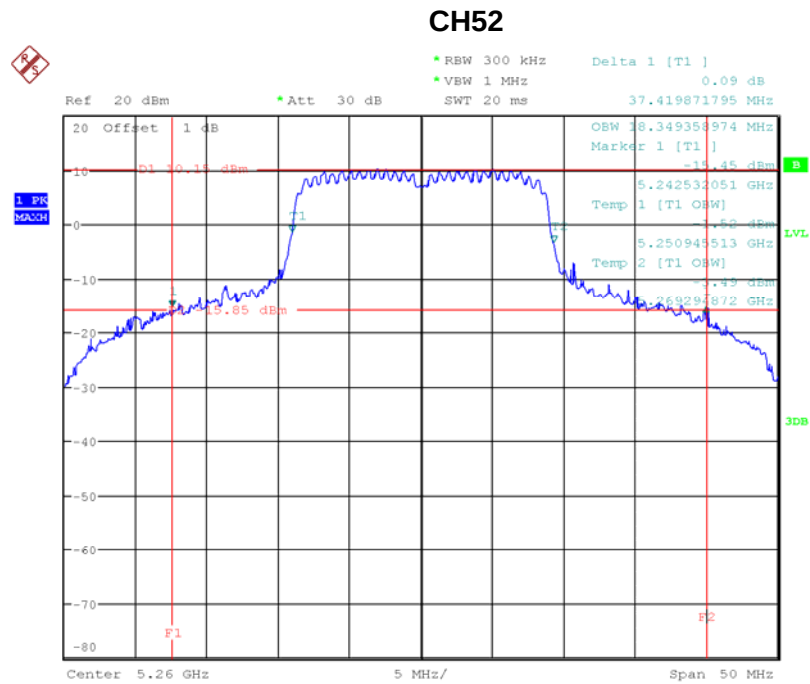
CH64



Date: 19.JAN.2014 13:48:05



Test Mode : Band 2/TX N20 Mode_CH52/56/64-ANT 2

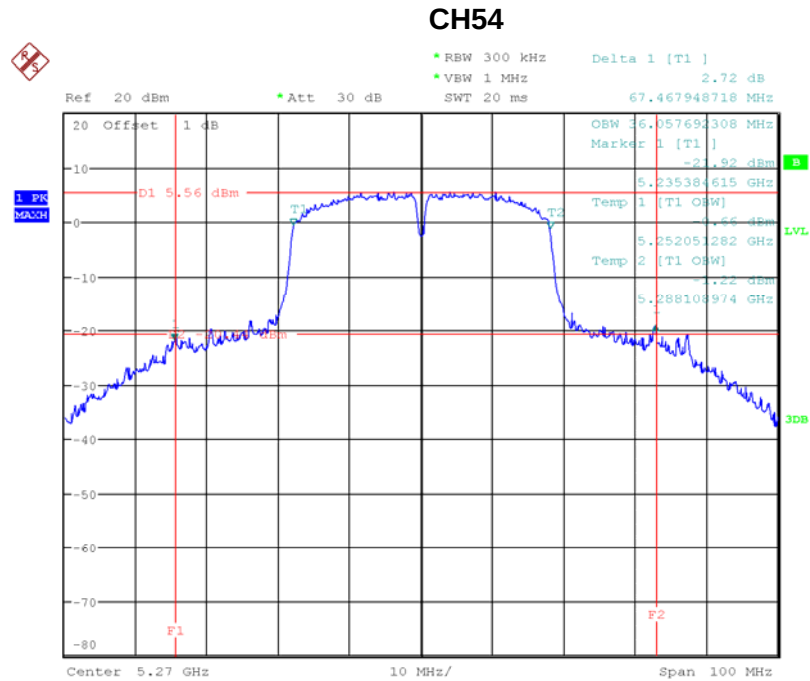


Date: 19.JAN.2014 12:29:44





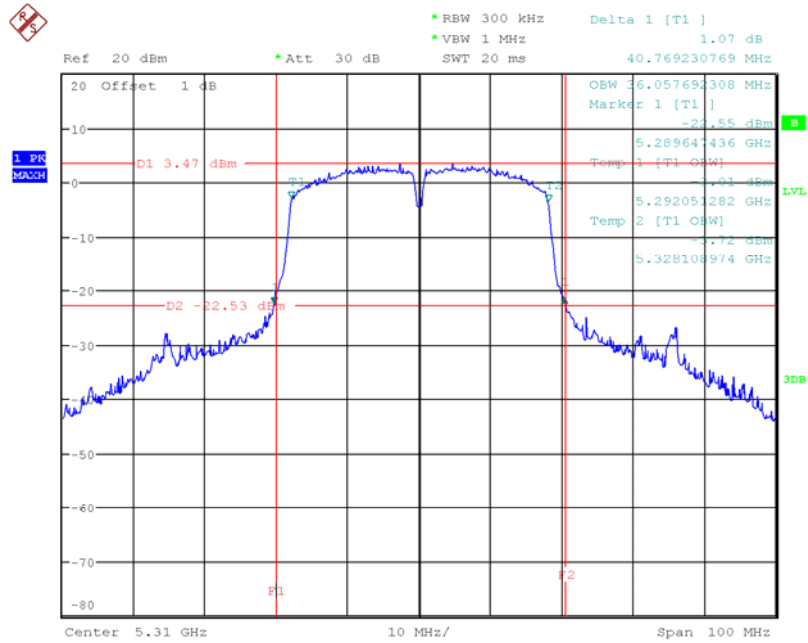
Test Mode : Band 2/TX N40 Mode_CH54/62-ANT 1



Date: 19.JAN.2014 14:18:18



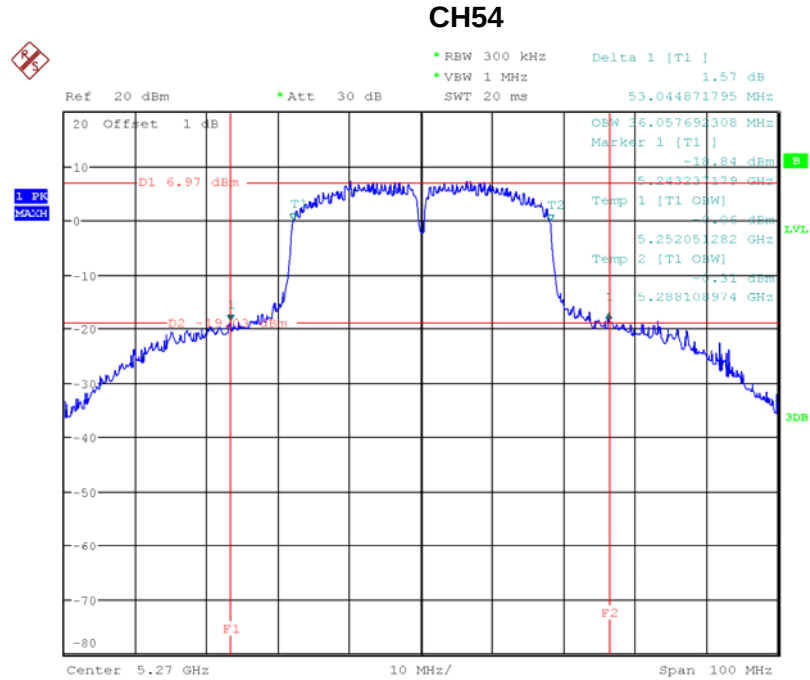
CH62



Date: 19.JAN.2014 14:22:00



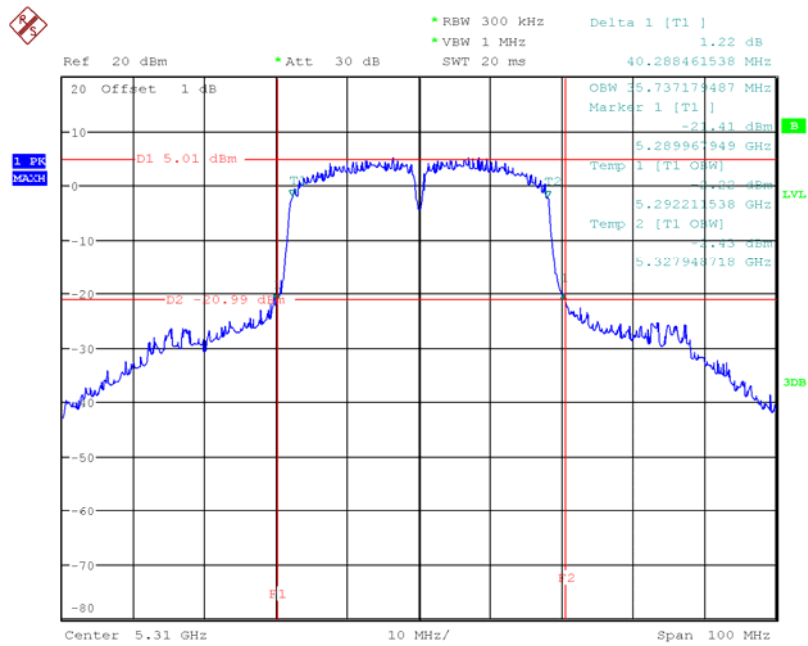
Test Mode : Band 2/TX N40 Mode_CH54/62-ANT 2



Date: 19.JAN.2014 15:16:38



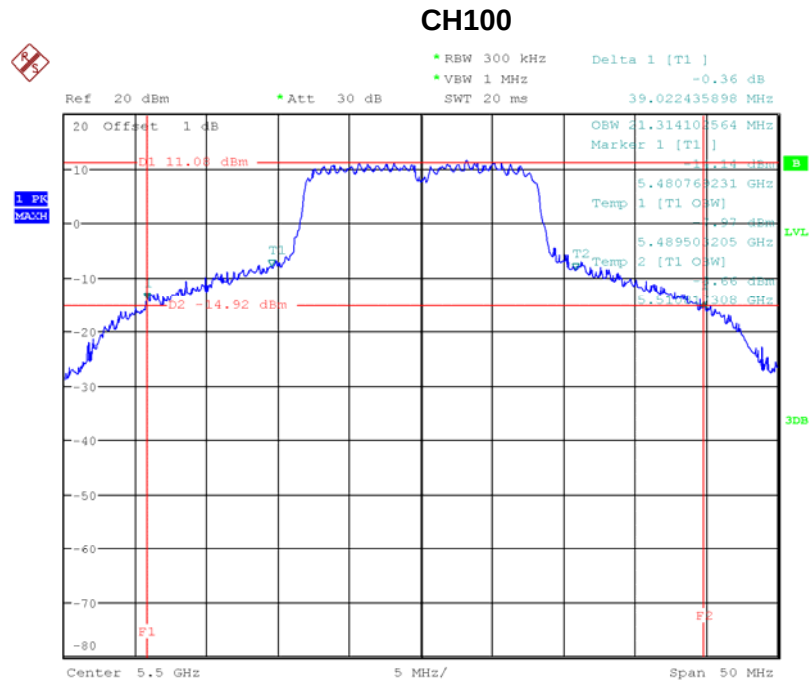
CH62



Date: 19.JAN.2014 15:18:15



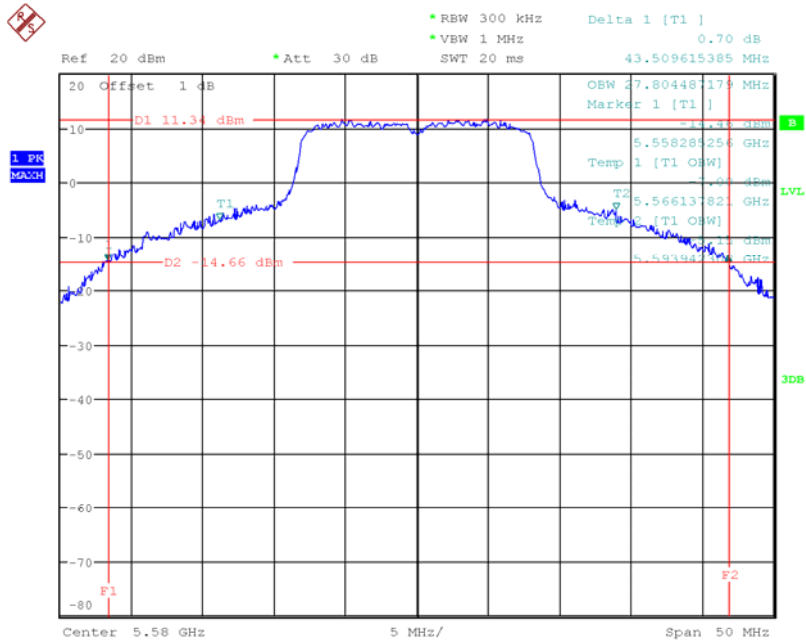
Test Mode : Band 3/TX A Mode_CH100/116/140



Date: 19.JAN.2014 12:01:44

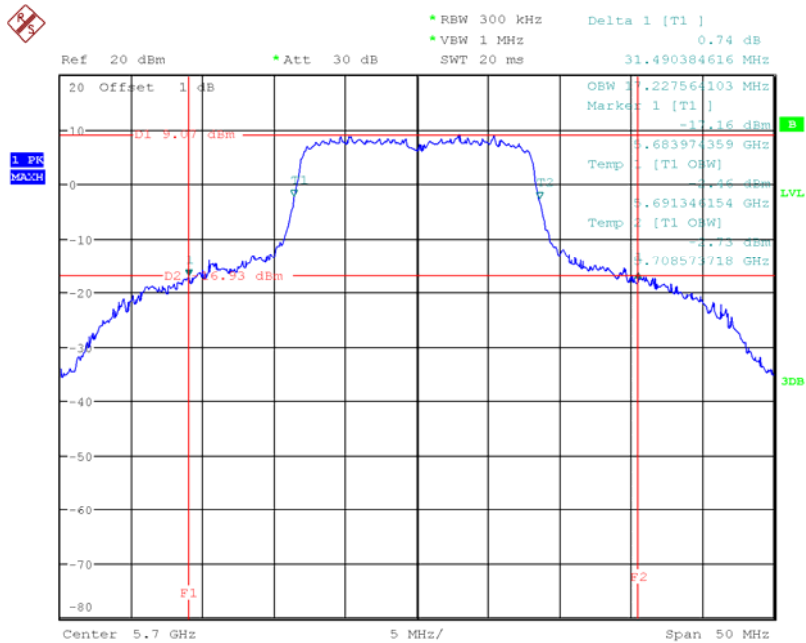


CH116



Date: 19.JAN.2014 12:07:29

CH140



Date: 19.JAN.2014 12:10:18

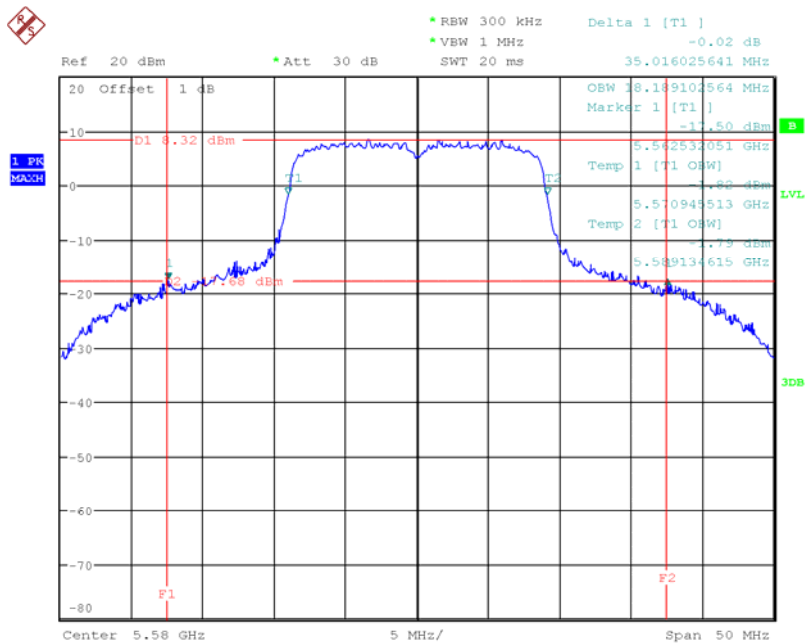


CH100



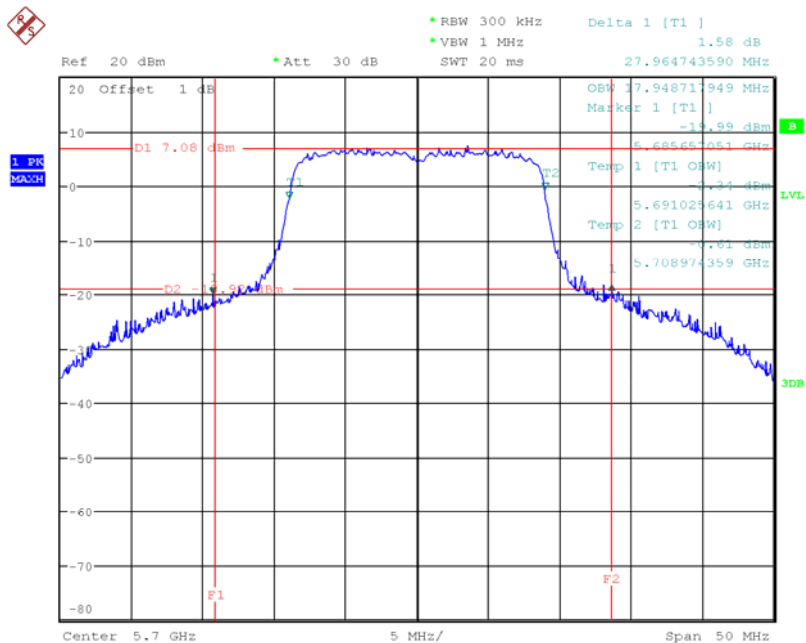


CH116



Date: 19.JAN.2014 13:56:57

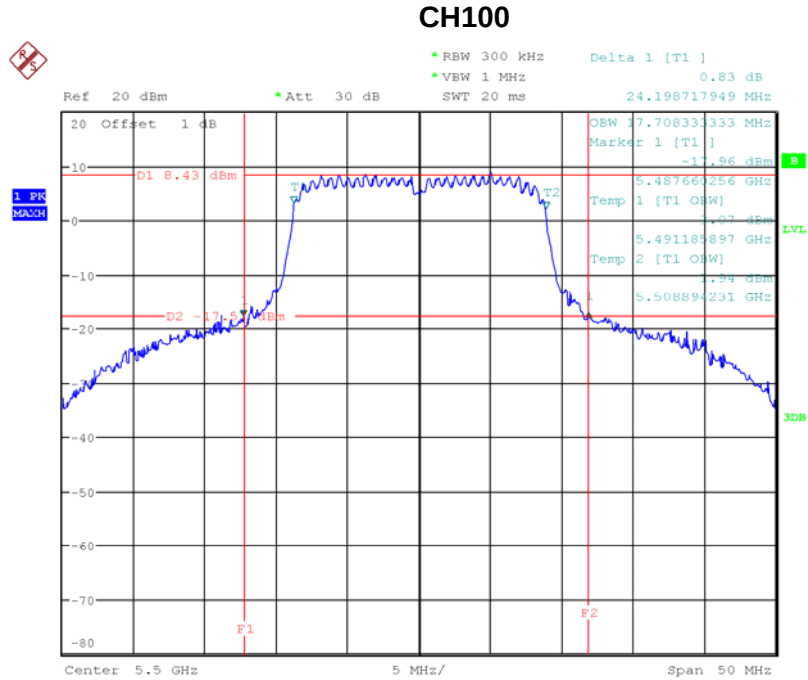
CH140



Date: 19.JAN.2014 13:59:45



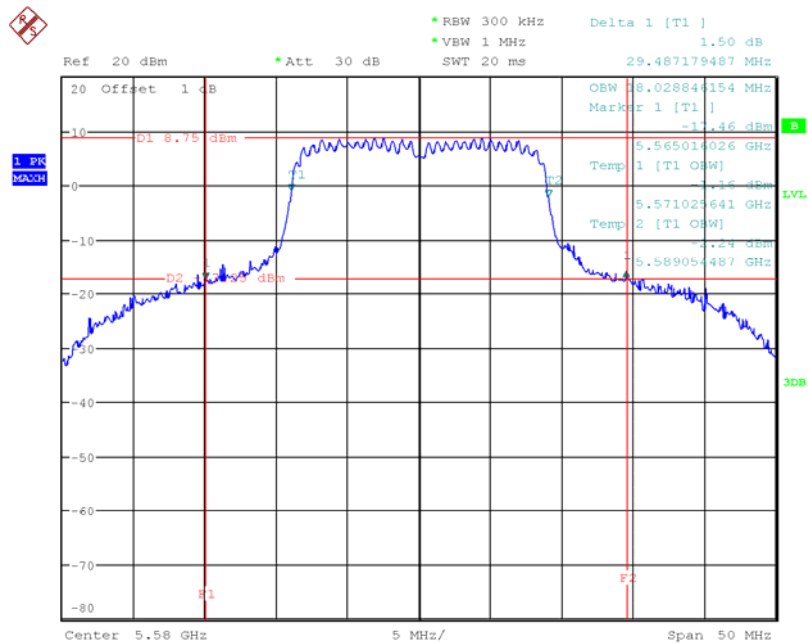
Test Mode : Band 3/TX N20 ModeCH100/116/140-ANT 2



Date: 19.JAN.2014 12:47:08

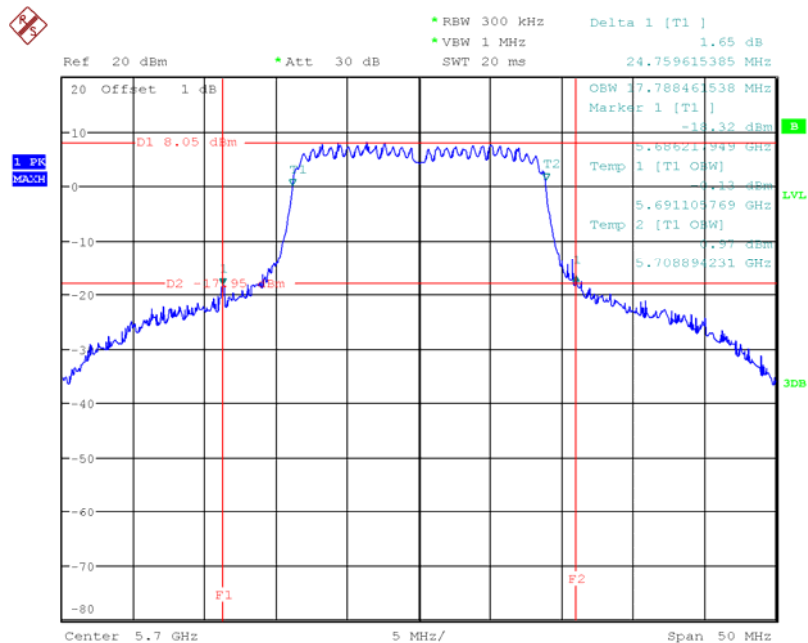


CH116



Date: 19.JAN.2014 12:52:32

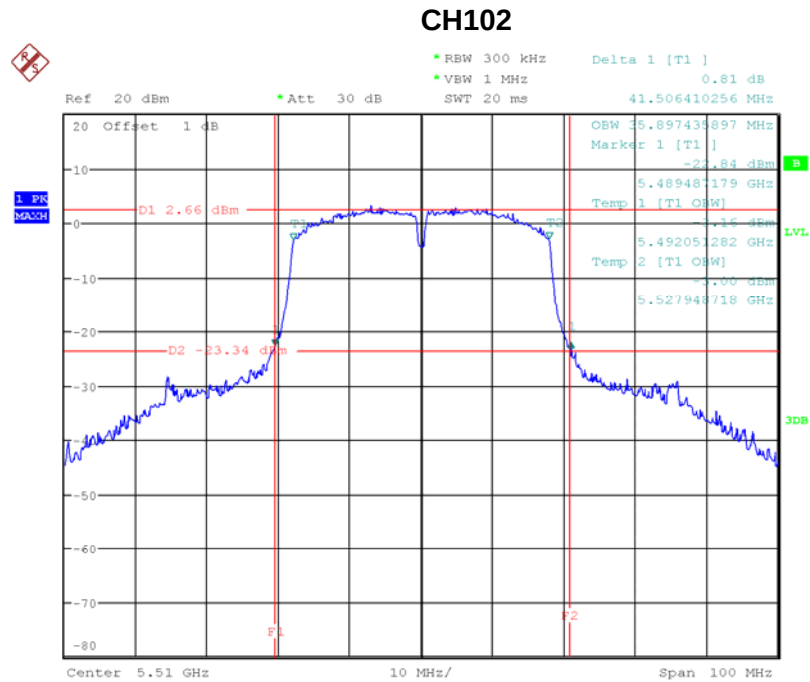
CH140



Date: 19.JAN.2014 12:55:50



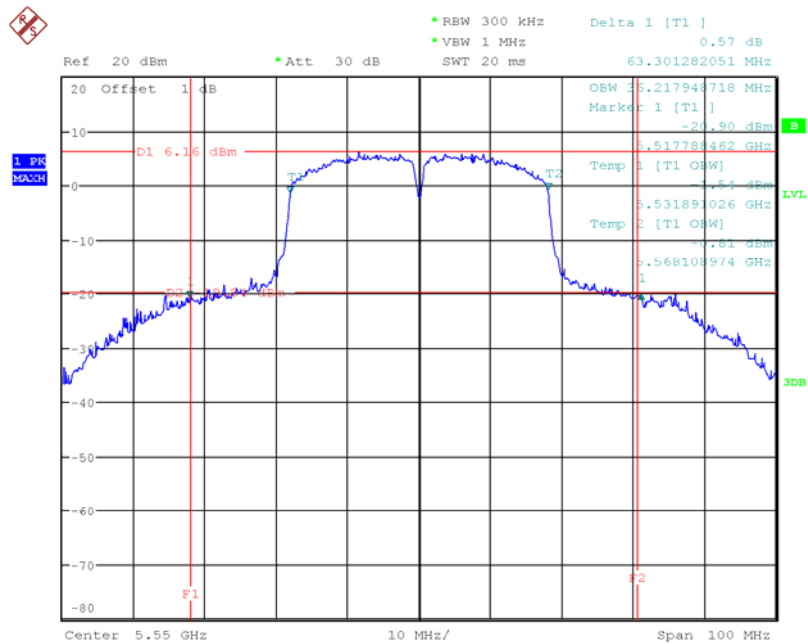
Test Mode : Band 3/TX N40 Mode_CH102/110/134-ANT 1



Date: 19.JAN.2014 14:42:49

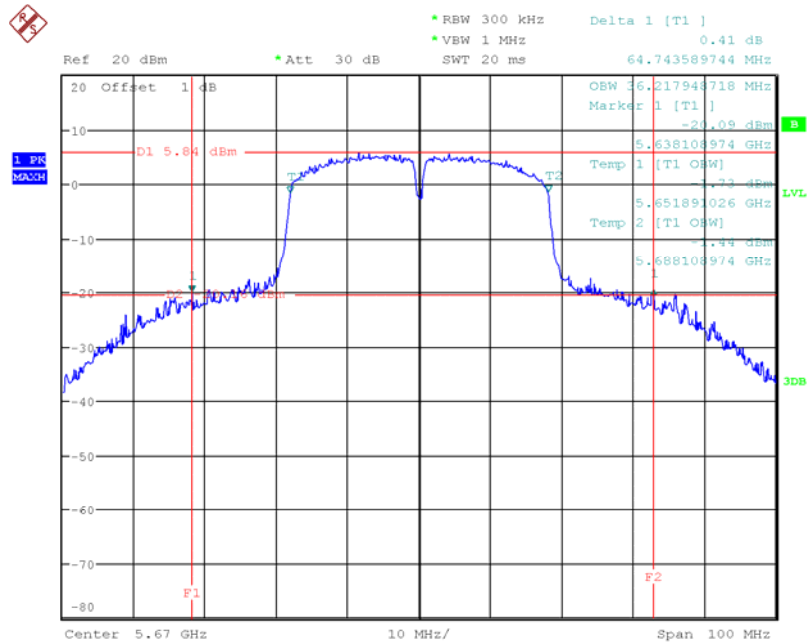


CH110



Date: 19.JAN.2014 14:37:10

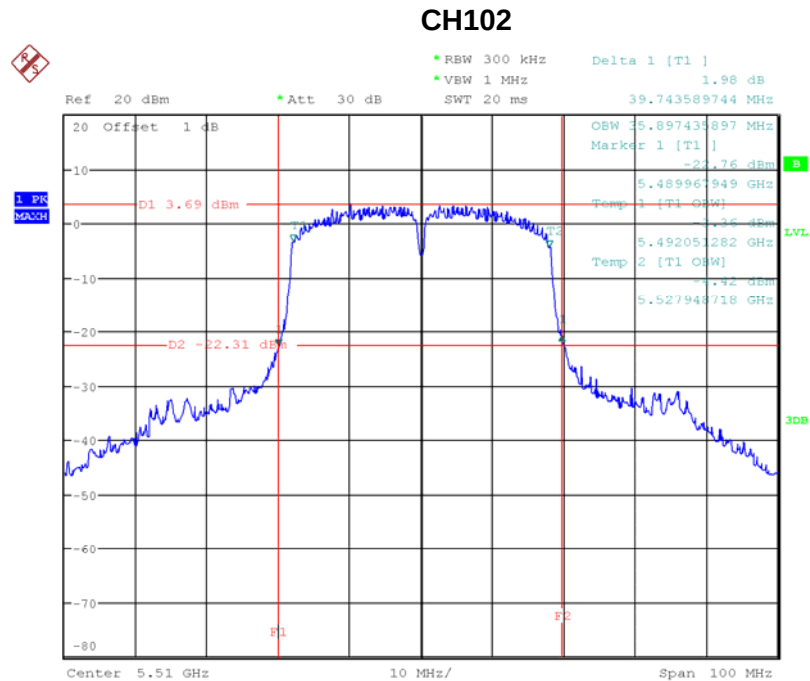
CH134



Date: 19.JAN.2014 14:51:03



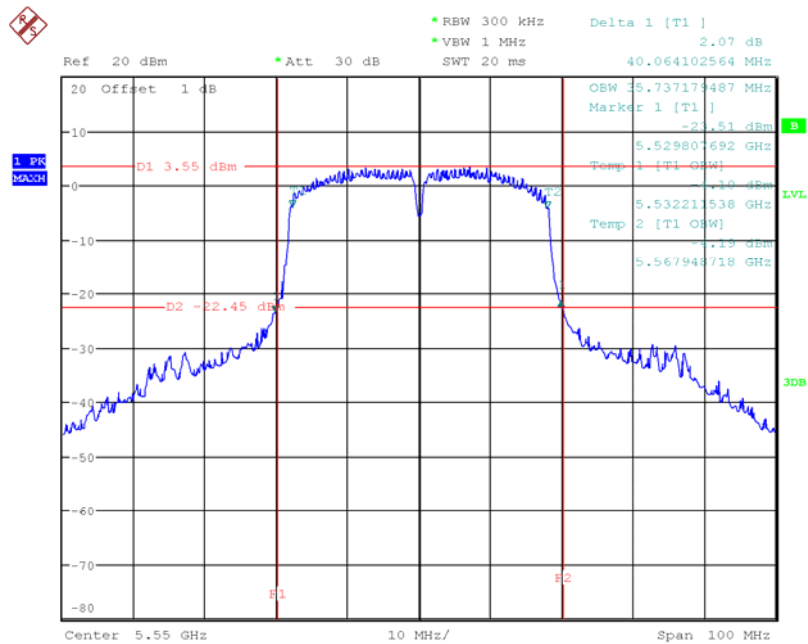
Test Mode : Band 3/TX N40 Mode_CH102/110/134-ANT 2



Date: 19.JAN.2014 15:27:30

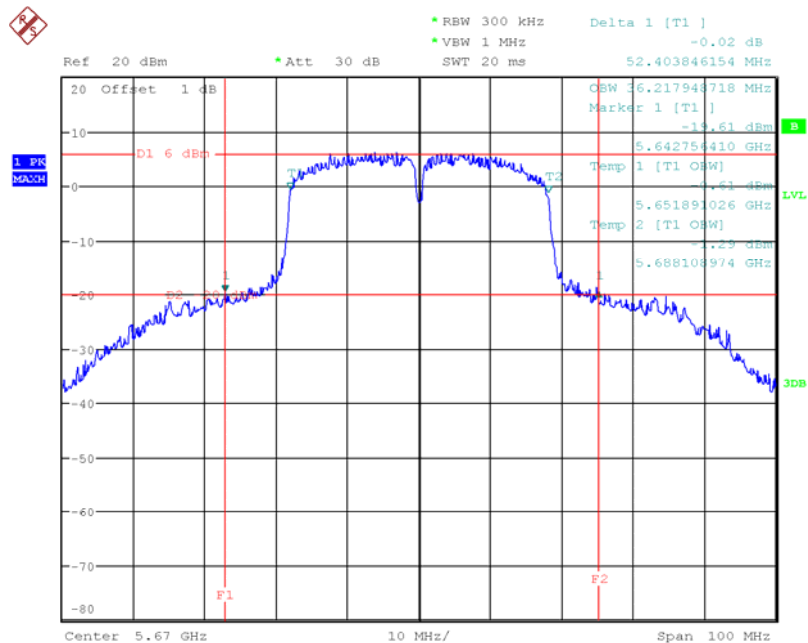


CH110



Date: 19.JAN.2014 15:30:04

CH134



Date: 19.JAN.2014 15:34:20



6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E/ RSS-210: 2010			
Test Item	Frequency Range (MHz)	Limit	Result
Conducted Output Power	5150 - 5250	not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B,	PASS
	5250 - 5350	not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B	PASS
	5470 - 5725	not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B	PASS

Note: where “B” is the 26 dB emissions bandwidth in MHz.

6.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
-

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	$\geq$ 3 MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- Test was performed in accordance with method of KDB 789033 D01.



6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C
Relative Humidity: 55%
Test Voltage: 120V/60Hz



6.1.6 TEST RESULTS

Test Mode :Band 1/TX A Mode				
Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH36	5180	14.38	17.00	0.0501
CH40	5200	14.14	17.00	0.0501
CH48	5240	14.01	17.00	0.0501



Test Mode :Band 1/TX N20 Mode-ANT 1

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH36	5180	13.08	17.00	0.0501
CH40	5200	13.54	17.00	0.0501
CH48	5240	13.15	17.00	0.0501

Test Mode :Band 1/TX N20 Mode-ANT 2

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH36	5180	13.12	17.00	0.0501
CH40	5200	13.69	17.00	0.0501
CH48	5240	13.46	17.00	0.0501

Test Mode :Band 1/TX N20 Mode-Total

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH36	5180	16.11	17.00	0.0501
CH40	5200	16.63	17.00	0.0501
CH48	5240	16.32	17.00	0.0501



Test Mode : Band 1/TX N40 Mode-ANT 1

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH38	5190	13.14	17.00	0.0501
CH46	5230	13.83	17.00	0.0501

Test Mode : Band 1/TX N40 Mode-ANT 2

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH38	5190	13.10	17.00	0.0501
CH46	5230	13.97	17.00	0.0501

Test Mode : Band 1/TX N40 Mode-Total

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH38	5190	16.13	17.00	0.0501
CH46	5230	16.91	17.00	0.0501



Test Mode :Band 2/TX A Mode				
Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH52	5260	18.94	24	0.251
CH56	5280	18.91	24	0.251
CH64	5320	17.56	24	0.251



Test Mode :Band 2/TX N20 Mode-ANT 1

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH52	5260	15.98	24	0.251
CH56	5280	15.97	24	0.251
CH64	5320	15.21	24	0.251

Test Mode :Band 2/TX N20 Mode-ANT 2

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH52	5260	15.98	24	0.251
CH56	5280	15.98	24	0.251
CH64	5320	15.23	24	0.251

Test Mode :Band 2/TX N20 Mode-Total

Test Channel	Frequency (MHz)	Conducted Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH52	5260	18.99	24	0.251
CH56	5280	18.99	24	0.251
CH64	5320	18.23	24	0.251