



**Neutron Engineering Inc.**

# FCC&IC Radio Test Report

**FCC ID: ACJ-SH-ALL1C**

**IC: 216A-SHALL1C**

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

**Issued Date** : Jan. 23, 2014  
**Project No.** : 1312C280  
**Equipment** : NETWORK AUDIO CONNECTOR  
**Model Name** : SH-ALL1C  
**Applicant for FCC** : Panasonic Corporation of North America  
**Applicant for IC** : Panasonic Canada Inc.

**Address for FCC** : Two Riverfront Plaza, 9<sup>th</sup> 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

**Testing Engineer** : David Mao  
(David Mao)

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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-1-1312C280	Original Issue.	Jan. 23, 2014



## 1. CERTIFICATION

Equipment : NETWORK AUDIO CONNECTOR  
Brand Name : Panasonic  
Model Name : SH-ALL1C  
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-2-1312C280) 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)	1 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	NETWORK AUDIO CONNECTOR	
Brand Name	Panasonic	
Model Name	SH-ALL1C	
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:15.98dBm 802.11N20:16.84 dBm 802.11N40:16.76 dBm
	Output Power (Max.)-Band 2	802.11a:17.86 dBm 802.11N20:18.98 dBm 802.11N40:16.78 dBm
	Output Power (Max.)-Band 3	802.11a:18.99 dBm 802.11N20:18.86 dBm 802.11N40:16.87 dBm
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	3.1	TX/RX
2	N/A	N/A	Internal	N/A	3.0	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<sub>ANT</sub>**, that is Directional gain=3.1.

(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	1TX	2TX
	TX Mode	
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	RT5x9x_V1.0.8.0_AP		
Frequency	5180 MHz	5200MHz	5240 MHz
A Mode	18	17.5	17
Frequency	5260 MHz	5280 MHz	5320 MHz
A Mode	22	22	16.5
Frequency	5500 MHz	5580 MHz	5700 MHz
A Mode	17	27	15.5

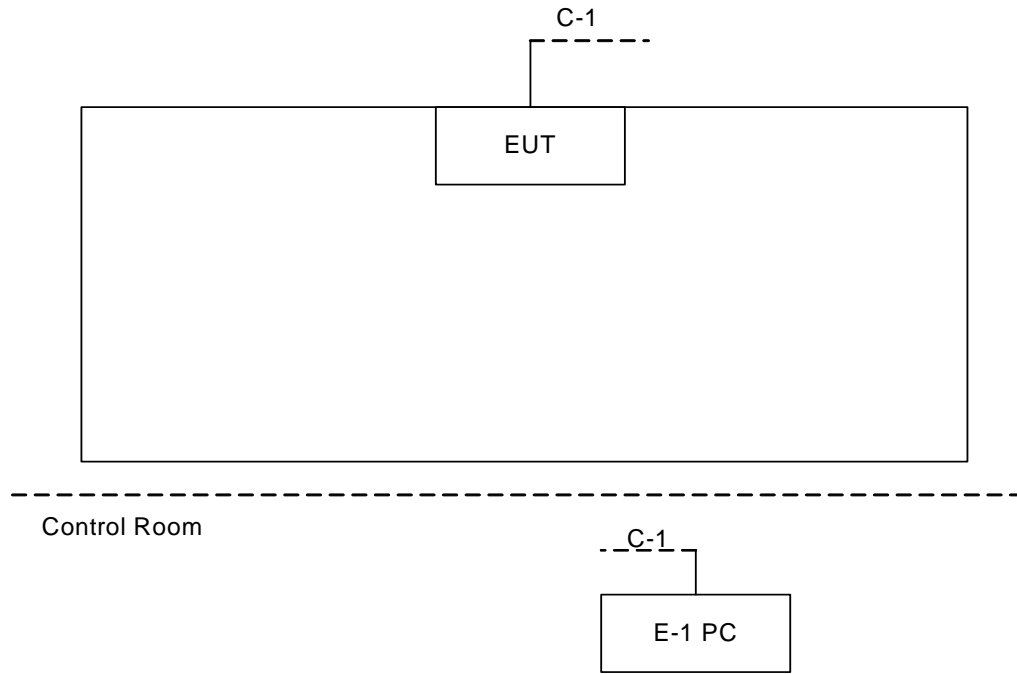
Test software version	RT5x9x_V1.0.8.0_AP		
Frequency	5180 MHz	5200MHz	5240 MHz
N20 Mode	16.5	17	17.5
Frequency	5260 MHz	5280 MHz	5320 MHz
N20 Mode	19.5	20	18
Frequency	5500 MHz	5580 MHz	5700 MHz
N20 Mode	17	20	16

Test software version	RT5x9x_V1.0.8.0_AP		
Frequency	5190 MHz	5230MHz	
N40 Mode	15	17.5	
Frequency	5270 MHz	5310 MHz	
N40 Mode	17.5	15	
Frequency	5510 MHz	5550 MHz	5670 MHz
N40M Mode	14	17.5	18

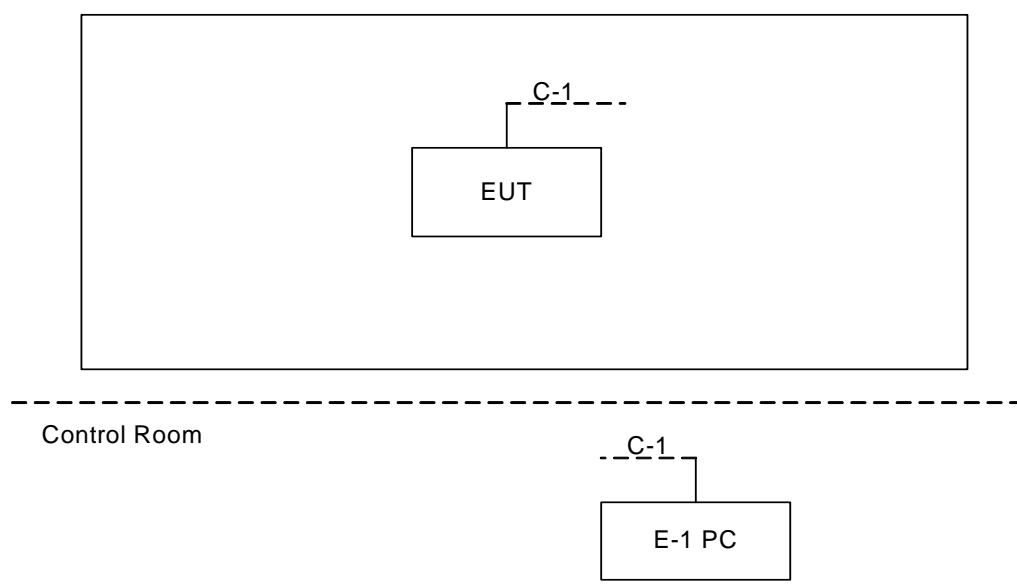


**3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**

**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.

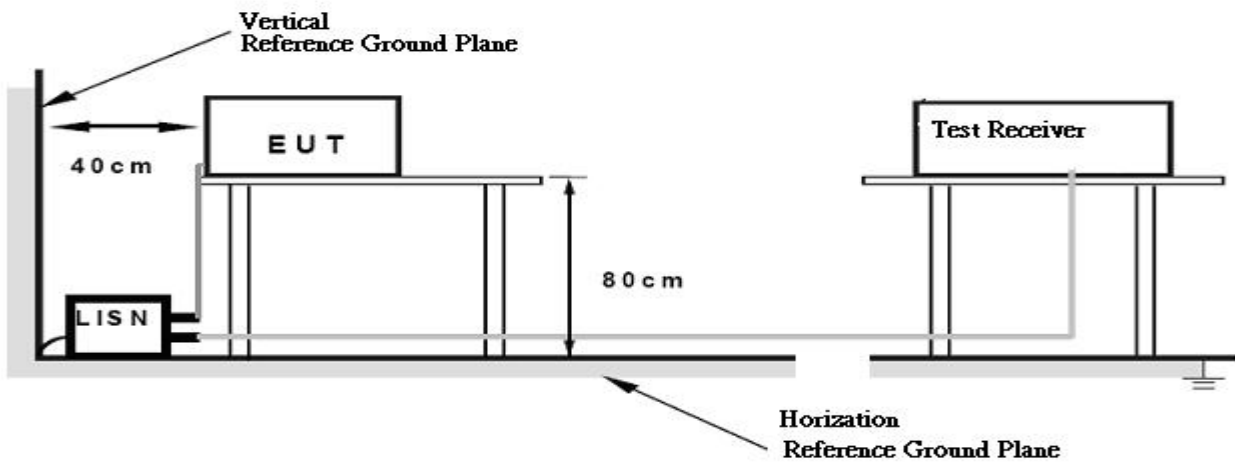
**4.1.2 TEST PROCEDURE**

- 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

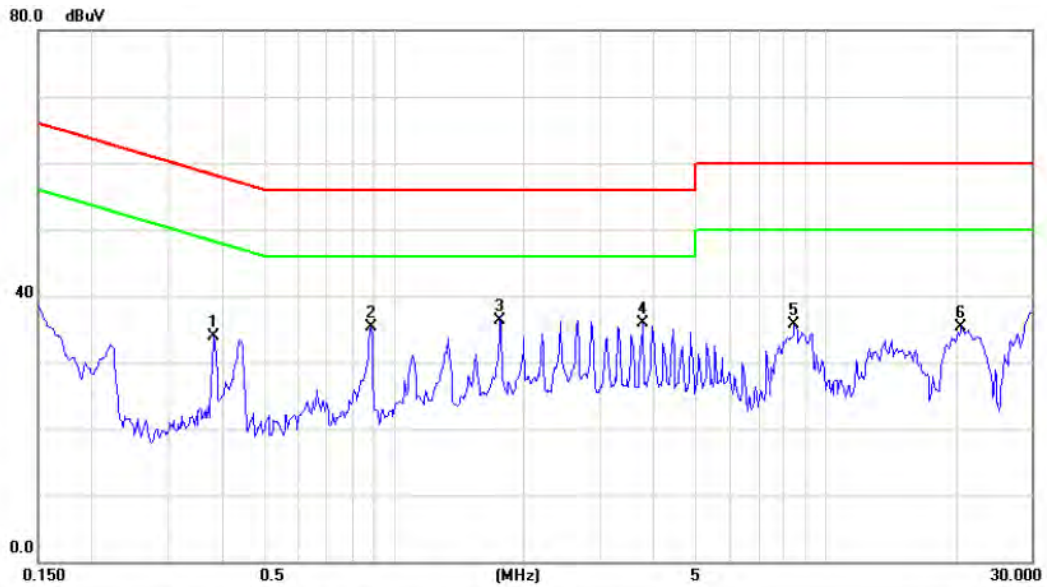
Remark:

- (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**

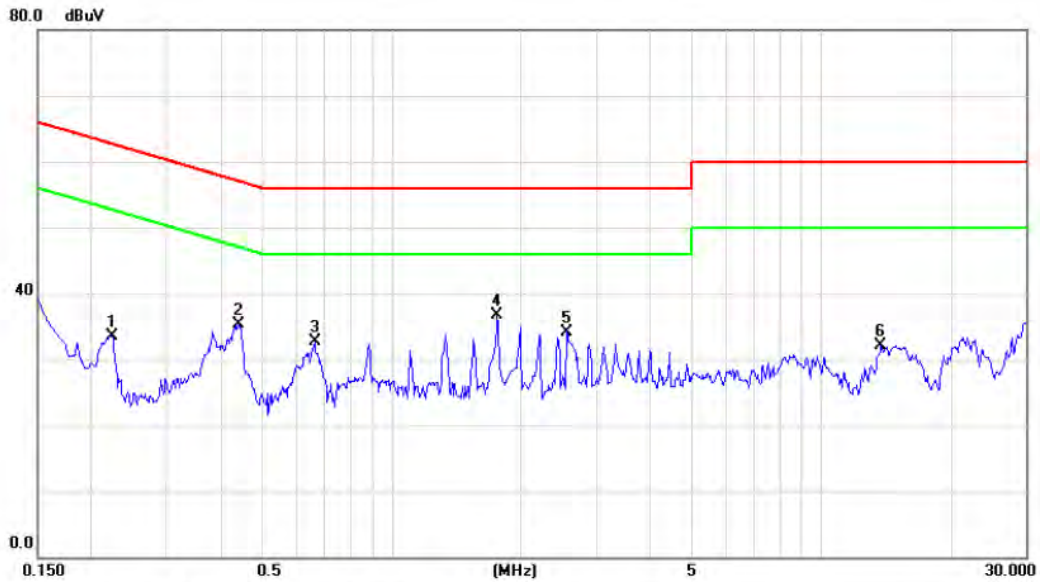


No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1	0.3842	24.24	9.68	33.92	58.19	-24.27	peak	
2	0.8881	25.66	9.74	35.40	56.00	-20.60	peak	
3 *	1.7710	26.58	9.82	36.40	56.00	-19.60	peak	
4	3.7850	26.01	9.88	35.89	56.00	-20.11	peak	
5	8.4570	25.71	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:

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

#### 4.2.2 TEST PROCEDURE

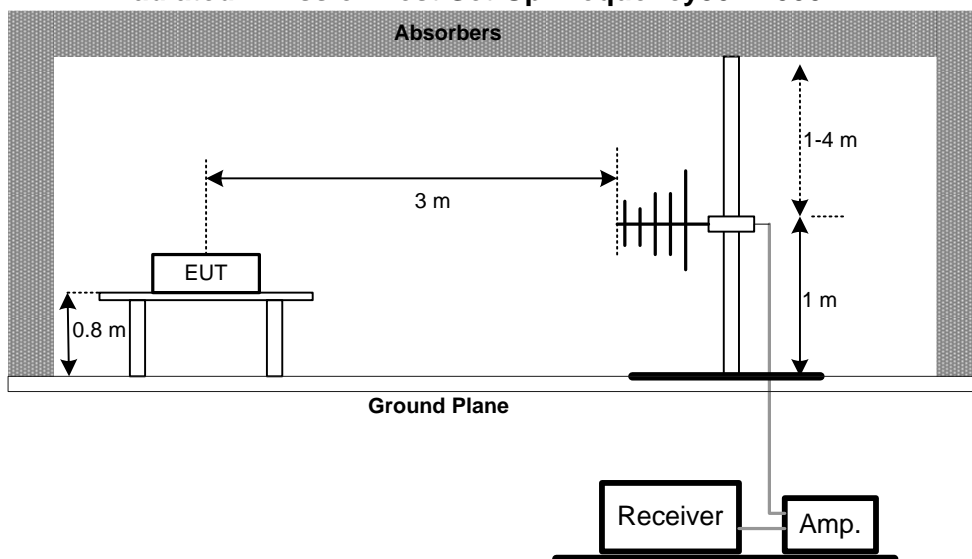
- The measuring distance of at 1.5m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 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

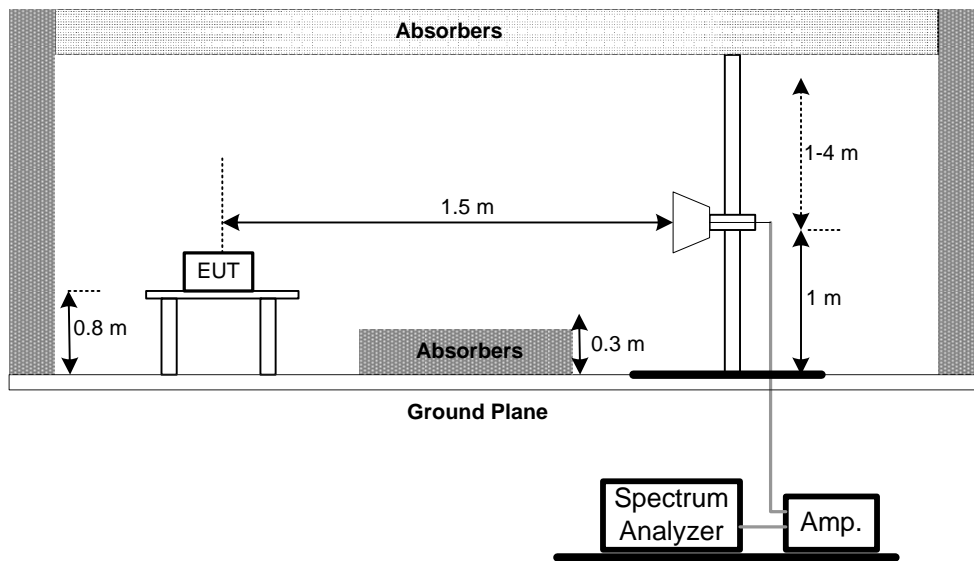
No deviation

#### 4.2.4 TEST SETUP

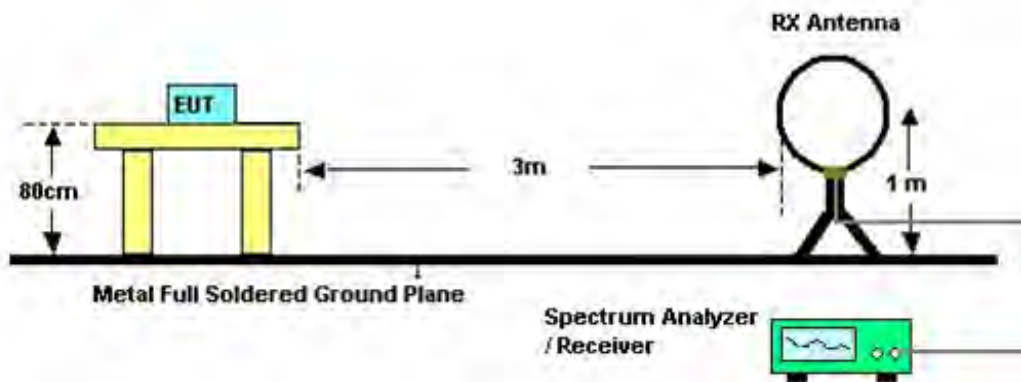
**Radiated Emission Test Set-Up Frequency 30 - 1000MHz**



**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 (specific distance / 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	50.24	-16.57	33.67	40.00	-6.33	peak	
2		196.8400	48.22	-15.28	32.94	43.50	-10.56	peak	
3		298.6900	38.73	-11.05	27.68	46.00	-18.32	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		893.3000	30.74	-0.01	30.73	46.00	-15.27	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	51.13	-16.57	34.56	40.00	-5.44	peak	
2		210.4200	51.56	-15.05	36.51	43.50	-6.99	peak	
3		250.1900	50.56	-14.87	35.69	46.00	-10.31	peak	
4		500.4500	40.23	-10.50	29.73	46.00	-16.27	peak	
5		749.7400	36.69	-5.30	31.39	46.00	-14.61	peak	
6		925.3100	33.53	0.04	33.57	46.00	-12.43	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	52.58	-16.85	35.73	43.50	-7.77	peak	
2		196.8400	50.19	-15.28	34.91	43.50	-8.59	peak	
3		298.6900	40.97	-11.05	29.92	46.00	-16.08	peak	
4		500.4500	38.32	-10.50	27.82	46.00	-18.18	peak	
5		719.6700	33.46	-4.76	28.70	46.00	-17.30	peak	
6		890.3900	32.38	-0.29	32.09	46.00	-13.91	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	53.06	-16.57	36.49	40.00	-3.51	peak	
2		196.8400	51.77	-15.28	36.49	43.50	-7.01	peak	
3		249.2200	49.74	-14.86	34.88	46.00	-11.12	peak	
4		500.4500	38.13	-10.50	27.63	46.00	-18.37	peak	
5		749.7400	35.22	-5.30	29.92	46.00	-16.08	peak	
6		874.8700	36.45	-1.78	34.67	46.00	-11.33	peak	



Test Mode : Band 1/TX A Mode 5240MHz

**Vertical**



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	97.9000	49.30	-16.38	32.92	43.50	-10.58	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	545.0700	30.38	-6.31	24.07	46.00	-21.93	peak	
5	749.7400	33.29	-5.30	27.99	46.00	-18.01	peak	
6	901.0600	28.60	0.60	29.20	46.00	-16.80	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	49.00	-16.57	32.43	40.00	-7.57	peak	
2		196.8400	50.07	-15.28	34.79	43.50	-8.71	peak	
3		250.1900	49.41	-14.87	34.54	46.00	-11.46	peak	
4		375.3200	38.00	-10.56	27.44	46.00	-18.56	peak	
5		749.7400	34.81	-5.30	29.51	46.00	-16.49	peak	
6		874.8700	35.29	-1.78	33.51	46.00	-12.49	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	49.30	-16.57	32.73	40.00	-7.27	peak	
2		196.8400	51.25	-15.28	35.97	43.50	-7.53	peak	
3		300.6300	39.37	-10.95	28.42	46.00	-17.58	peak	
4		516.9400	33.53	-8.94	24.59	46.00	-21.41	peak	
5		749.7400	35.19	-5.30	29.89	46.00	-16.11	peak	
6		901.0600	29.15	0.60	29.75	46.00	-16.25	peak	



Test Mode : Band 2/TX A Mode 5260MHz

**Horizontal**

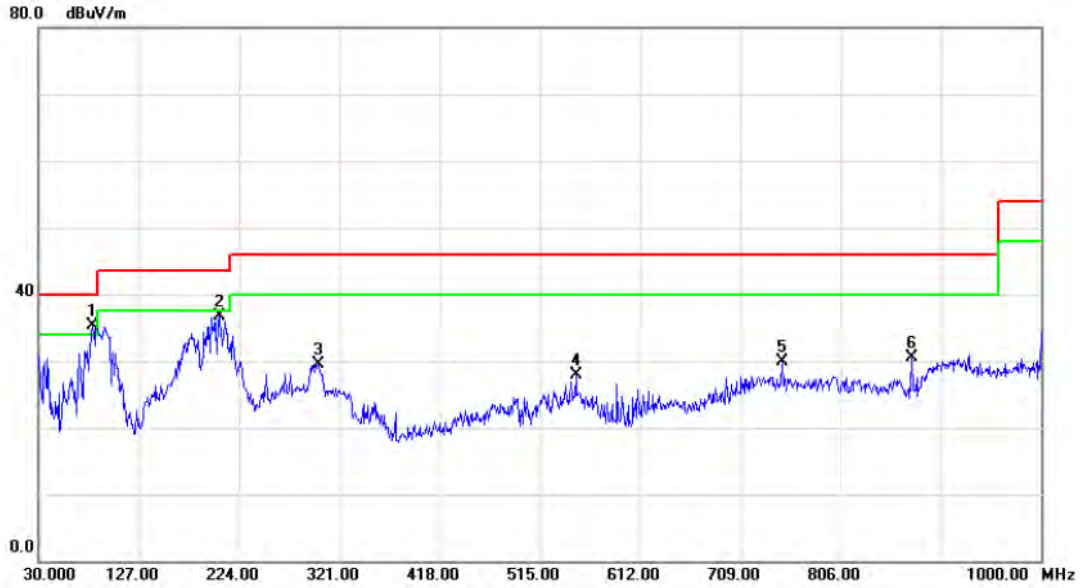


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		81.4100	48.90	-16.57	32.33	40.00	-7.67	peak	
2	*	196.8400	51.48	-15.28	36.20	43.50	-7.30	peak	
3		301.6000	44.16	-10.97	33.19	46.00	-12.81	peak	
4		500.4500	39.90	-10.50	29.40	46.00	-16.60	peak	
5		749.7400	34.25	-5.30	28.95	46.00	-17.05	peak	
6		874.8700	36.16	-1.78	34.38	46.00	-11.62	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	*	82.3800	51.99	-16.63	35.36	40.00	-4.64	peak	
2		204.6000	52.09	-15.35	36.74	43.50	-6.76	peak	
3		300.6300	40.46	-10.95	29.51	46.00	-16.49	peak	
4		549.9200	33.76	-5.86	27.90	46.00	-18.10	peak	
5		749.7400	35.25	-5.30	29.95	46.00	-16.05	peak	
6		874.8700	32.27	-1.78	30.49	46.00	-15.51	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	48.72	-16.57	32.15	40.00	-7.85	peak	
2		196.8400	50.59	-15.28	35.31	43.50	-8.19	peak	
3		252.1300	49.45	-14.85	34.60	46.00	-11.40	peak	
4		500.4500	36.90	-10.50	26.40	46.00	-19.60	peak	
5		749.7400	34.45	-5.30	29.15	46.00	-16.85	peak	
6		901.0600	33.61	0.60	34.21	46.00	-11.79	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	53.11	-16.57	36.54	40.00	-3.46	peak	
2		196.8400	52.78	-15.28	37.50	43.50	-6.00	peak	
3		299.6600	43.01	-10.97	32.04	46.00	-13.96	peak	
4		552.8300	32.44	-5.97	26.47	46.00	-19.53	peak	
5		749.7400	34.54	-5.30	29.24	46.00	-16.76	peak	
6		893.3000	30.49	-0.01	30.48	46.00	-15.52	peak	



Test Mode : Band 2/TX A Mode 5320MHz

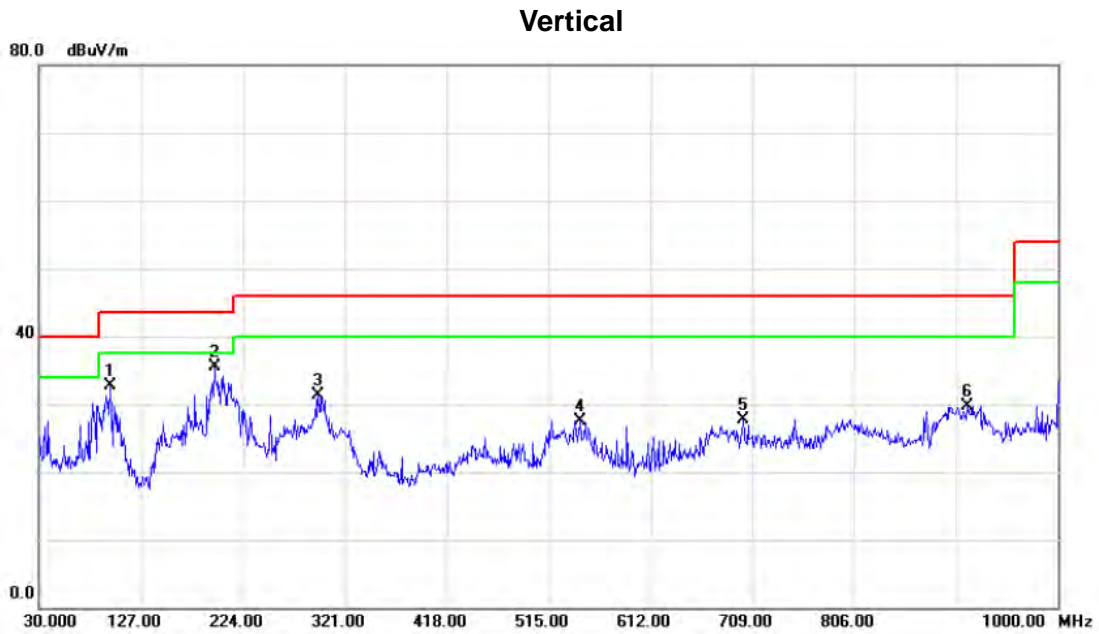
**Horizontal**



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		81.4100	48.46	-16.57	31.89	40.00	-8.11	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		356.8900	37.88	-11.14	26.74	46.00	-19.26	peak	
5		749.7400	35.40	-5.30	30.10	46.00	-15.90	peak	
6		918.5200	33.75	0.19	33.94	46.00	-12.06	peak	



Test Mode : Band 3/TX A Mode 5500MHz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		97.9000	49.03	-16.38	32.65	43.50	-10.85	peak	
2	*	196.8400	50.79	-15.28	35.51	43.50	-7.99	peak	
3		295.7800	42.53	-11.28	31.25	46.00	-14.75	peak	
4		545.0700	33.85	-6.31	27.54	46.00	-18.46	peak	
5		700.2700	32.19	-4.42	27.77	46.00	-18.23	peak	
6		913.6700	29.35	0.31	29.66	46.00	-16.34	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	48.79	-16.57	32.22	40.00	-7.78	peak	
2		196.8400	49.40	-15.28	34.12	43.50	-9.38	peak	
3		250.1900	48.28	-14.87	33.41	46.00	-12.59	peak	
4		305.4800	44.32	-10.99	33.33	46.00	-12.67	peak	
5		749.7400	33.91	-5.30	28.61	46.00	-17.39	peak	
6		935.0100	33.34	-0.18	33.16	46.00	-12.84	peak	



Test Mode : Band 3/TX A Mode 5580MHz

**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	AVG	
2		196.8400	49.57	-15.28	34.29	43.50	-9.21	peak	
3		294.8100	41.85	-11.35	30.50	46.00	-15.50	peak	
4		500.4500	39.60	-10.50	29.10	46.00	-16.90	peak	
5		735.1900	37.36	-5.03	32.33	46.00	-13.67	peak	
6		925.3100	30.16	0.04	30.20	46.00	-15.80	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		74.6200	44.73	-15.84	28.89	40.00	-11.11	peak	
2	*	210.4200	50.43	-15.05	35.38	43.50	-8.12	peak	
3		254.0700	49.52	-14.83	34.69	46.00	-11.31	peak	
4		293.8400	47.09	-11.42	35.67	46.00	-10.33	peak	
5		749.7400	35.21	-5.30	29.91	46.00	-16.09	peak	
6		909.7900	32.82	0.40	33.22	46.00	-12.78	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	52.17	-16.38	35.79	43.50	-7.71	peak	
2	*	196.8400	52.57	-15.28	37.29	43.50	-6.21	peak	
3		294.8100	41.85	-11.35	30.50	46.00	-15.50	peak	
4		500.4500	37.60	-10.50	27.10	46.00	-18.90	peak	
5		749.7400	36.71	-5.30	31.41	46.00	-14.59	peak	
6		925.3100	30.66	0.04	30.70	46.00	-15.30	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	50.81	-16.57	34.24	40.00	-5.76	peak	
2		210.4200	49.81	-15.05	34.76	43.50	-8.74	peak	
3		254.0700	50.14	-14.83	35.31	46.00	-10.69	peak	
4		303.5400	42.70	-10.98	31.72	46.00	-14.28	peak	
5		749.7400	36.20	-5.30	30.90	46.00	-15.10	peak	
6		902.0300	32.15	0.58	32.73	46.00	-13.27	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

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	14.56	3.76	42.72	57.28	46.48	-47.49	-58.29	68.30	54.00	-27.00	-41.30	X/E
5183.80	V	57.46	48.68	42.80	100.26	91.48	-4.51	-13.29					X/F
10360.00	V	46.89	33.54	16.03	62.92	49.57	-41.85	-55.20	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	17.22	5.07	42.72	59.94	47.79	-44.83	-56.98	68.30	54.00	-27.00	-41.30	X/E
5182.70	H	60.67	51.44	42.80	103.47	94.24	-1.30	-10.53					X/F
10360.90	H	47.73	34.03	16.02	63.75	50.05	-41.02	-54.72	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 1/ TX A Mode 5200MHz

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	
5202.40	V	57.48	49.59	42.84	100.32	92.43	-4.45	-12.34					X/F
10402.60	V	45.84	33.02	15.97	61.81	48.99	-42.96	-55.78	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	
5205.10	H	61.28	51.76	42.86	104.14	94.62	-0.63	-10.15					X/F
10401.30	H	47.23	34.78	15.96	63.19	50.74	-41.58	-54.03	68.30	54.00	-27.00	-41.30	X/H

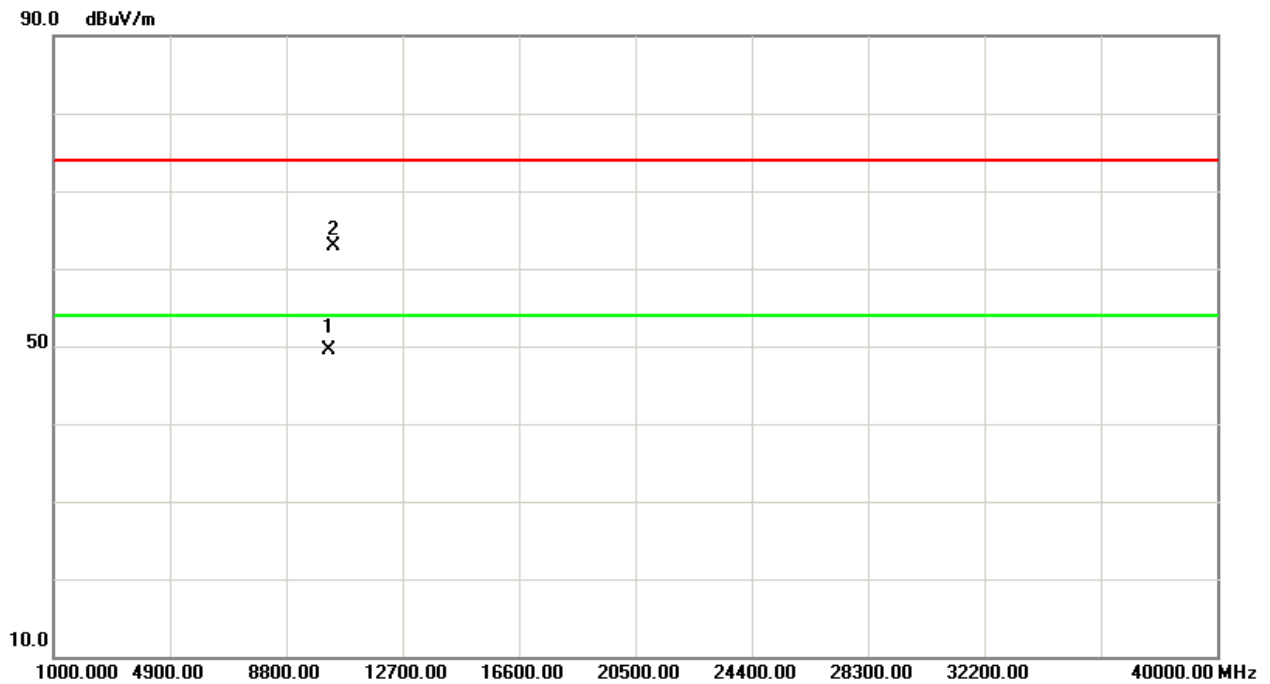
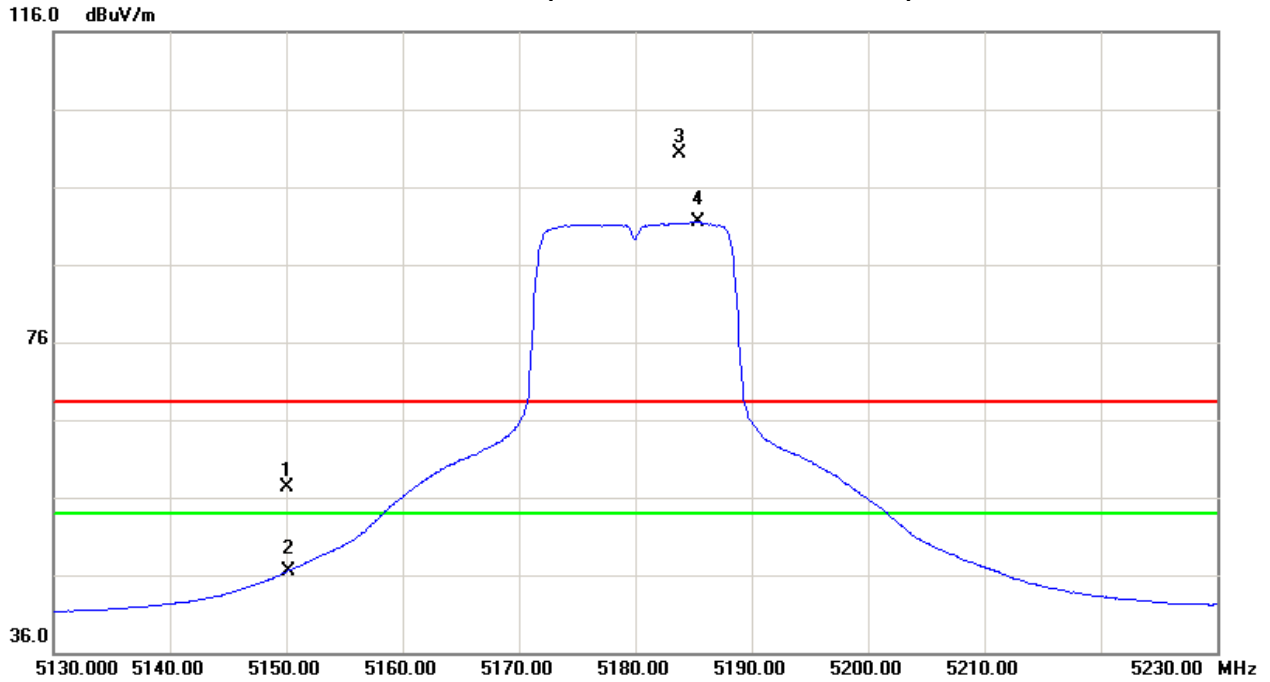
Test Mode : Band 1/ TX A Mode 5240MHz

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	
5243.90	V	60.52	52.79	42.95	103.47	95.74	-1.30	-9.03					X/F
10480.80	V	45.26	32.91	15.86	61.12	48.77	-43.65	-56.00	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	
5242.90	H	59.98	50.68	42.93	102.91	93.61	-1.86	-11.16					X/F
10480.10	H	46.25	24.07	15.86	62.11	39.93	-42.66	-64.84	68.30	54.00	-27.00	-41.30	X/H

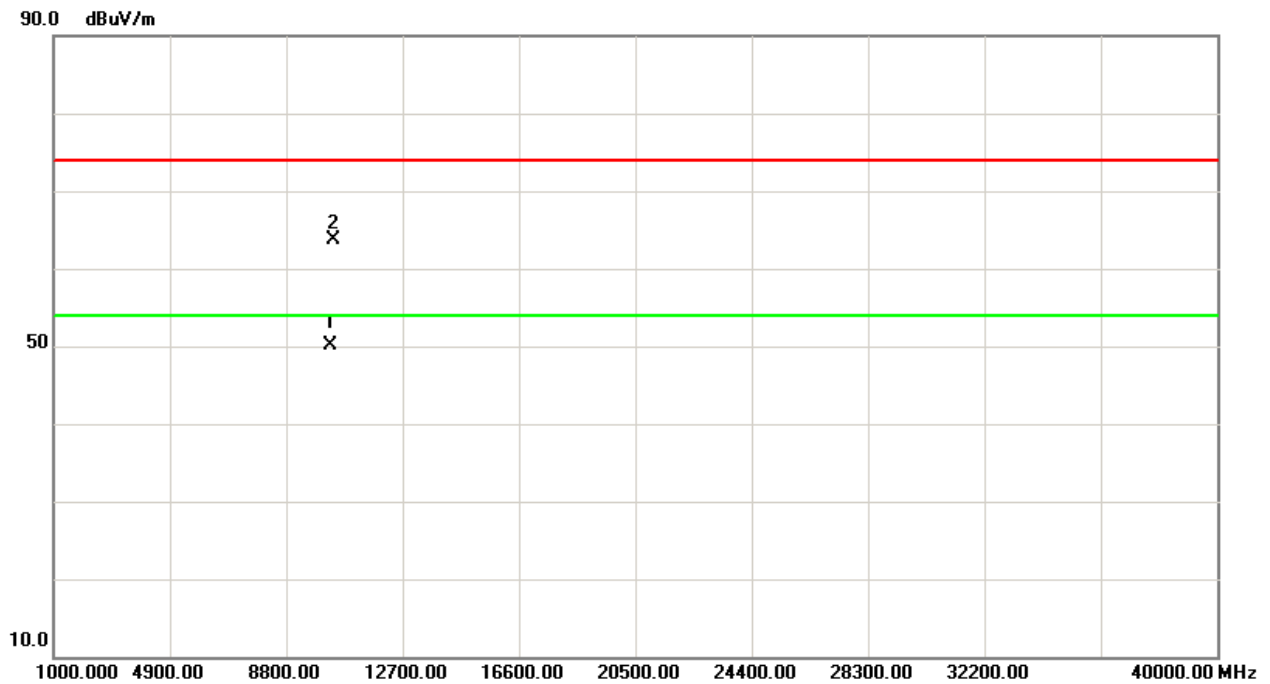
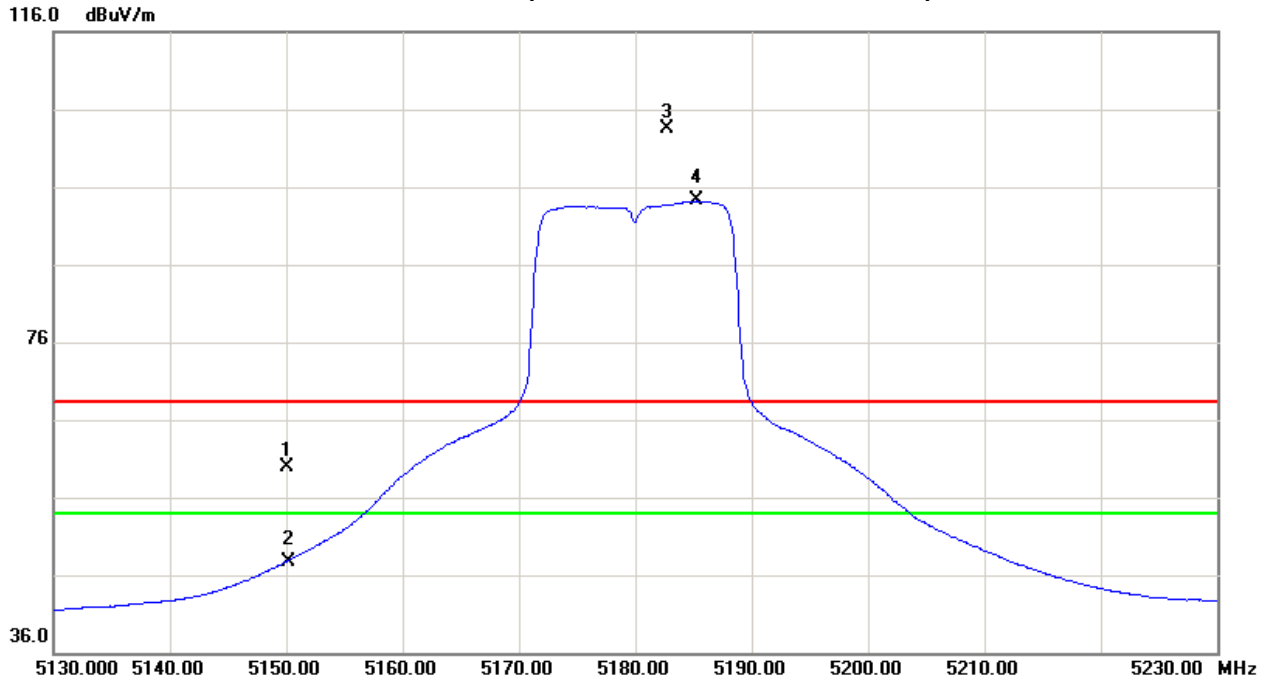


Orthogonal Axis:X  
Band 1/CH36(Above 1000 MHz, Vertical)



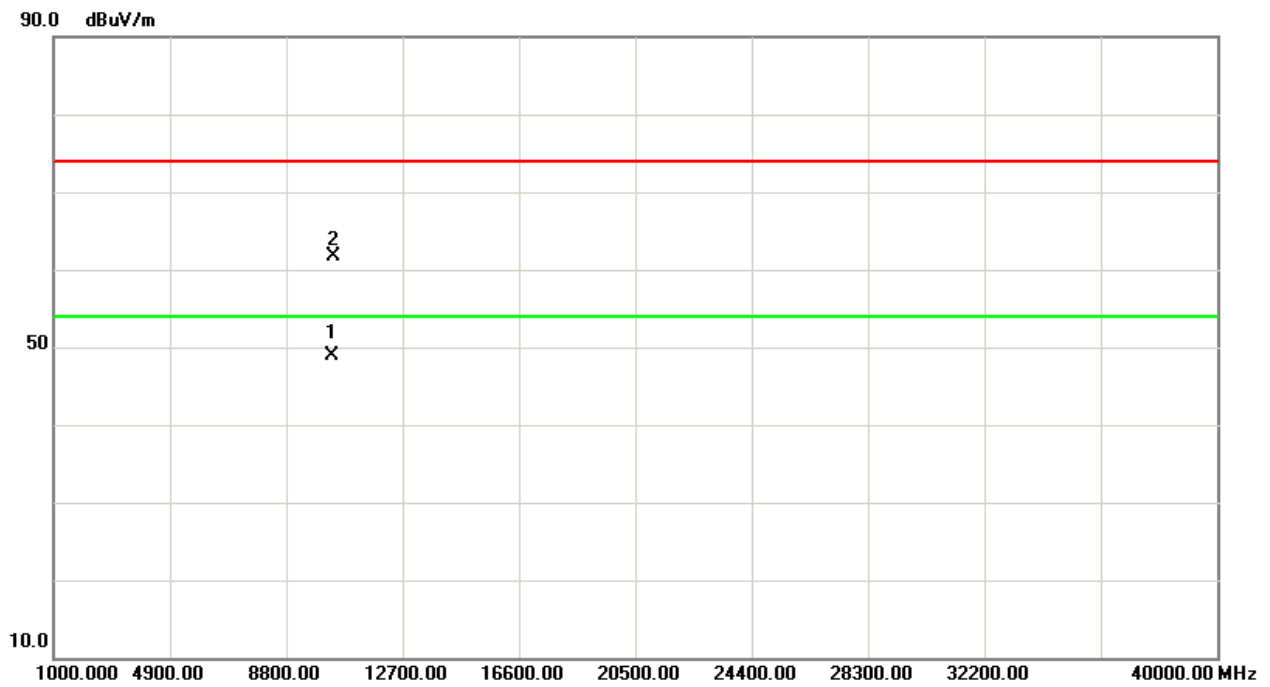
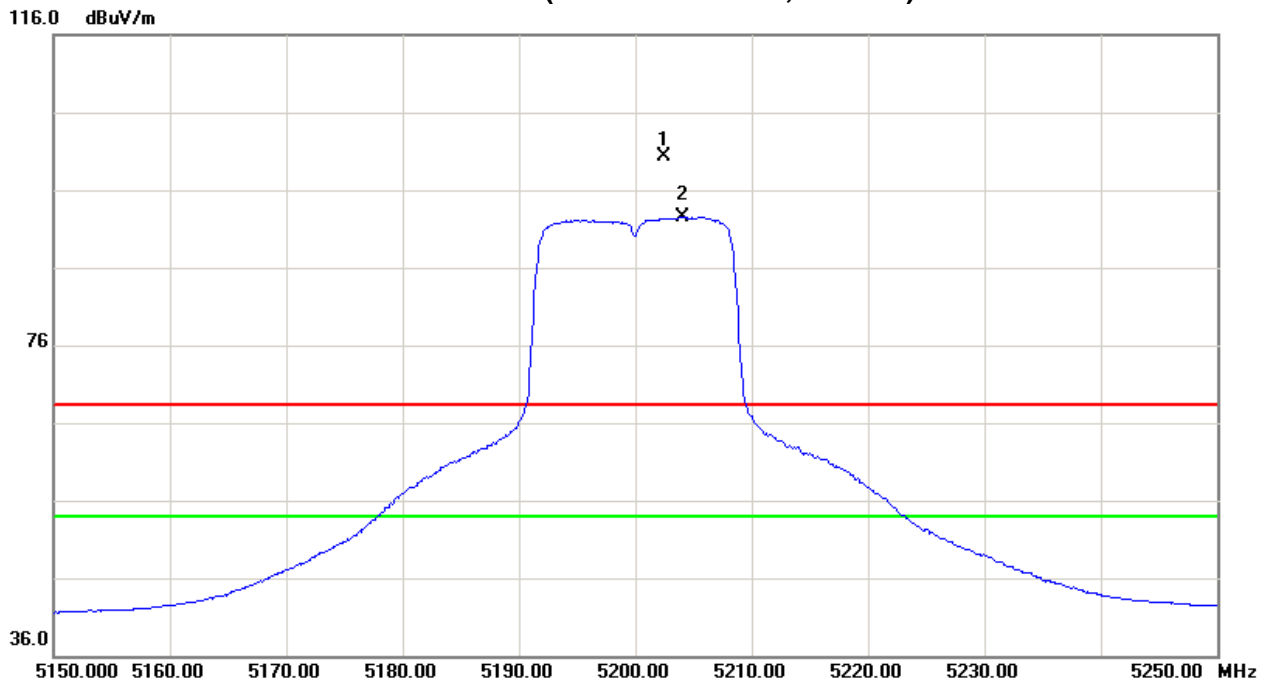


Orthogonal Axis:X  
Band 1/CH36(Above 1000 MHz, Horizontal)



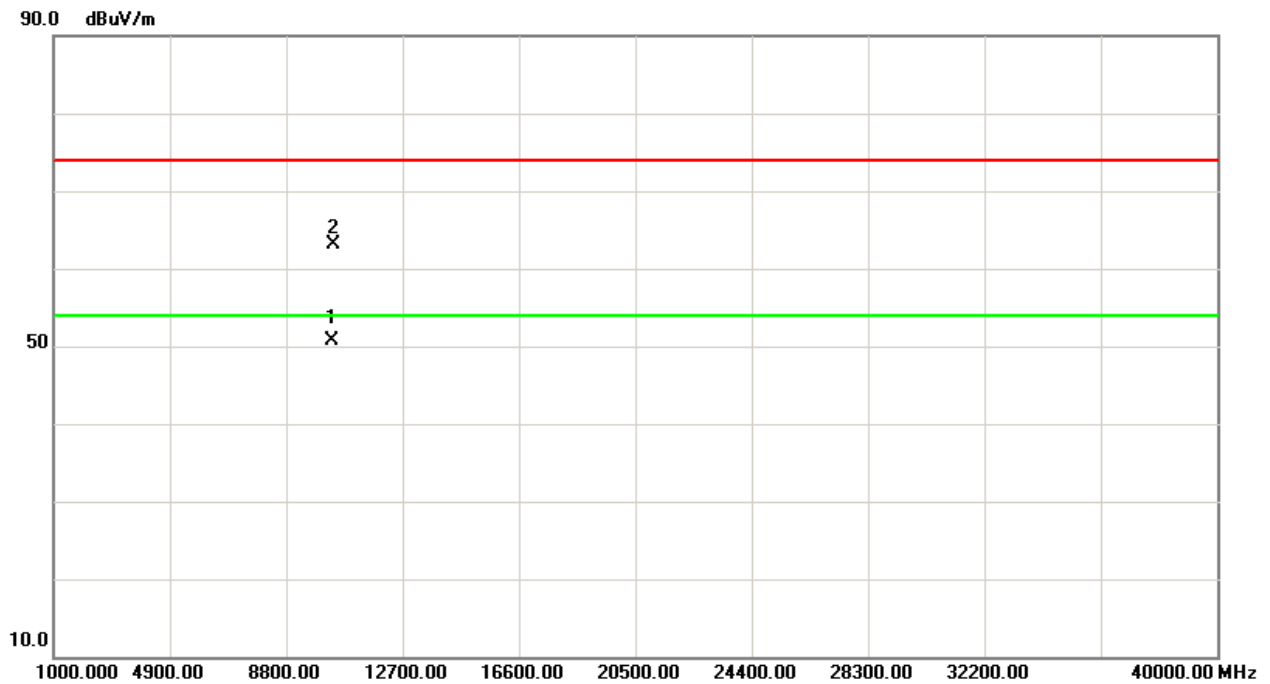
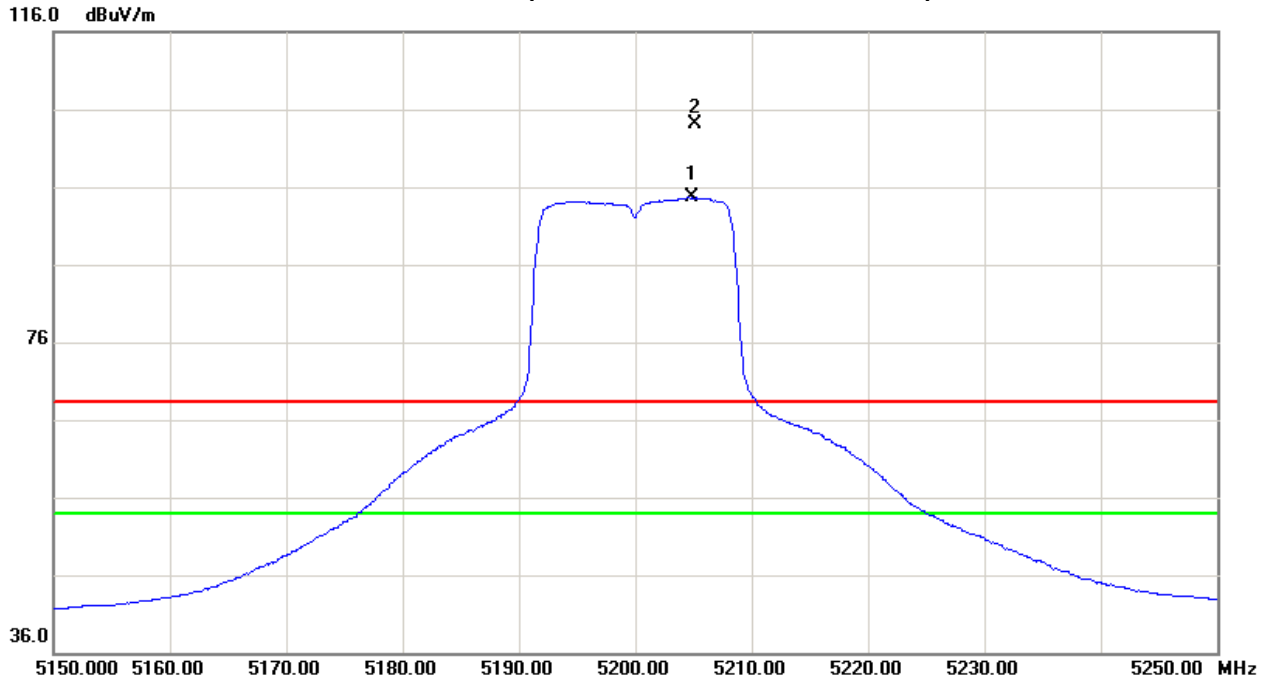


Orthogonal Axis:X  
Band 1/CH40(Above 1000 MHz, Vertical)



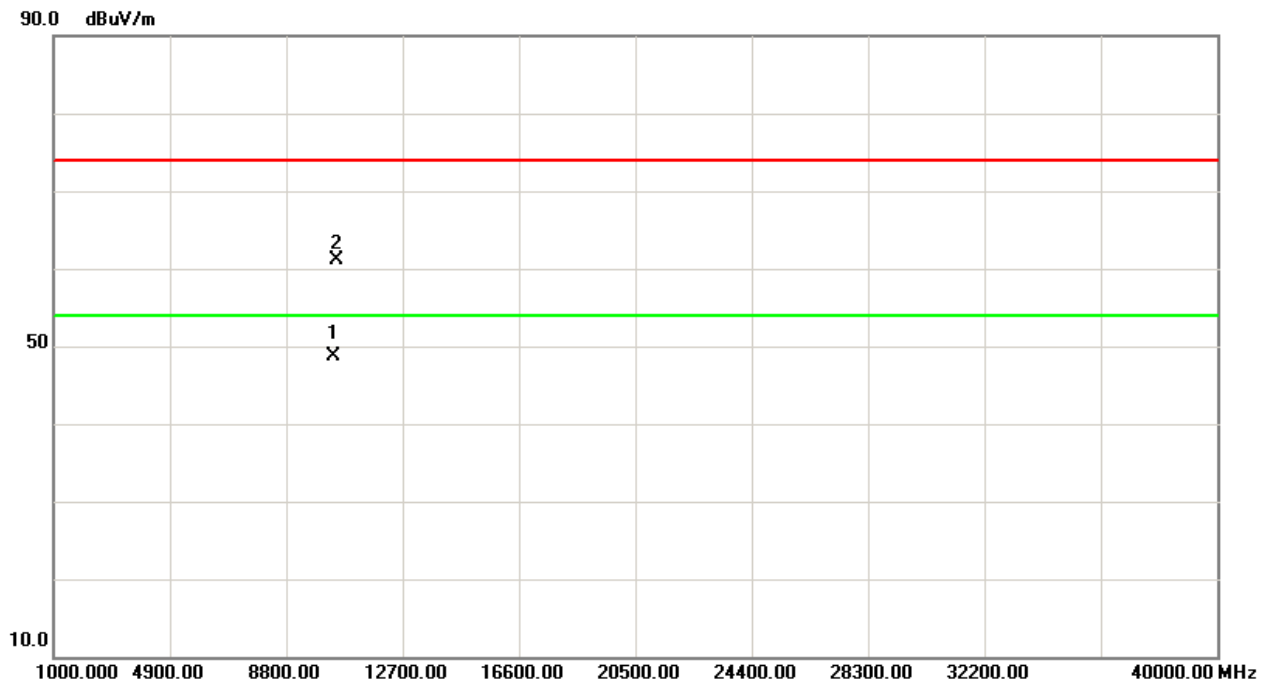
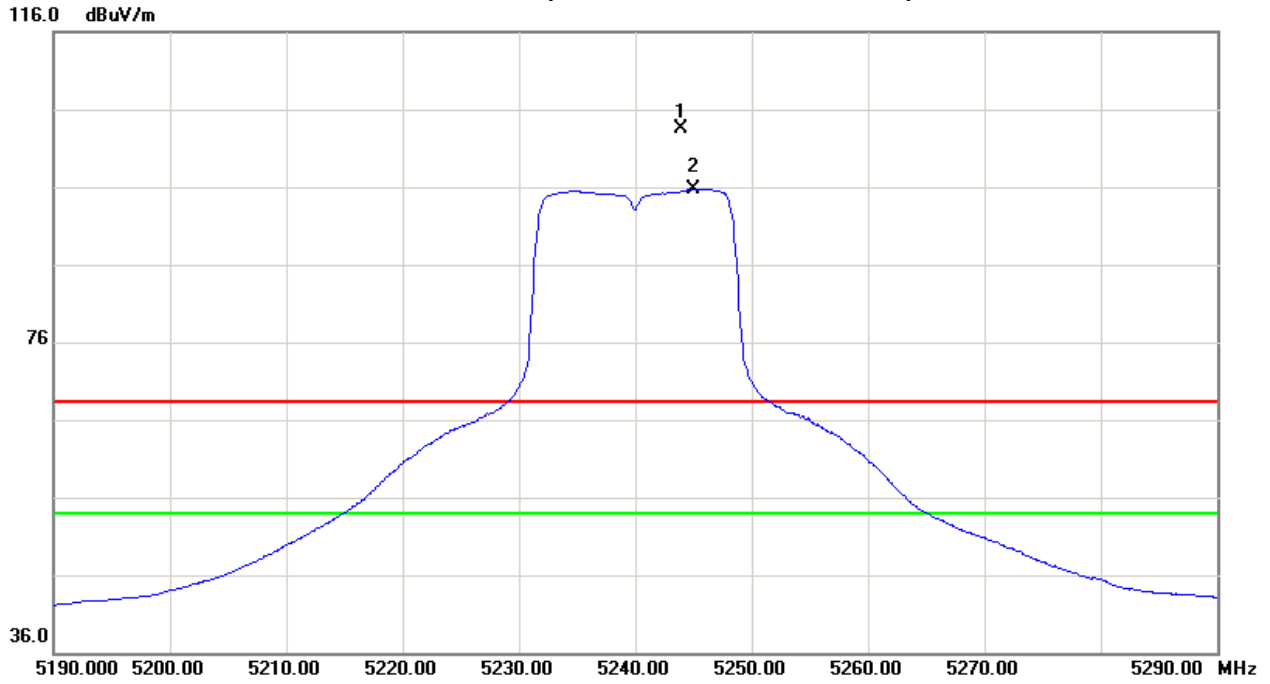


Orthogonal Axis:X  
Band 1/CH40(Above 1000 MHz, Horizontal)



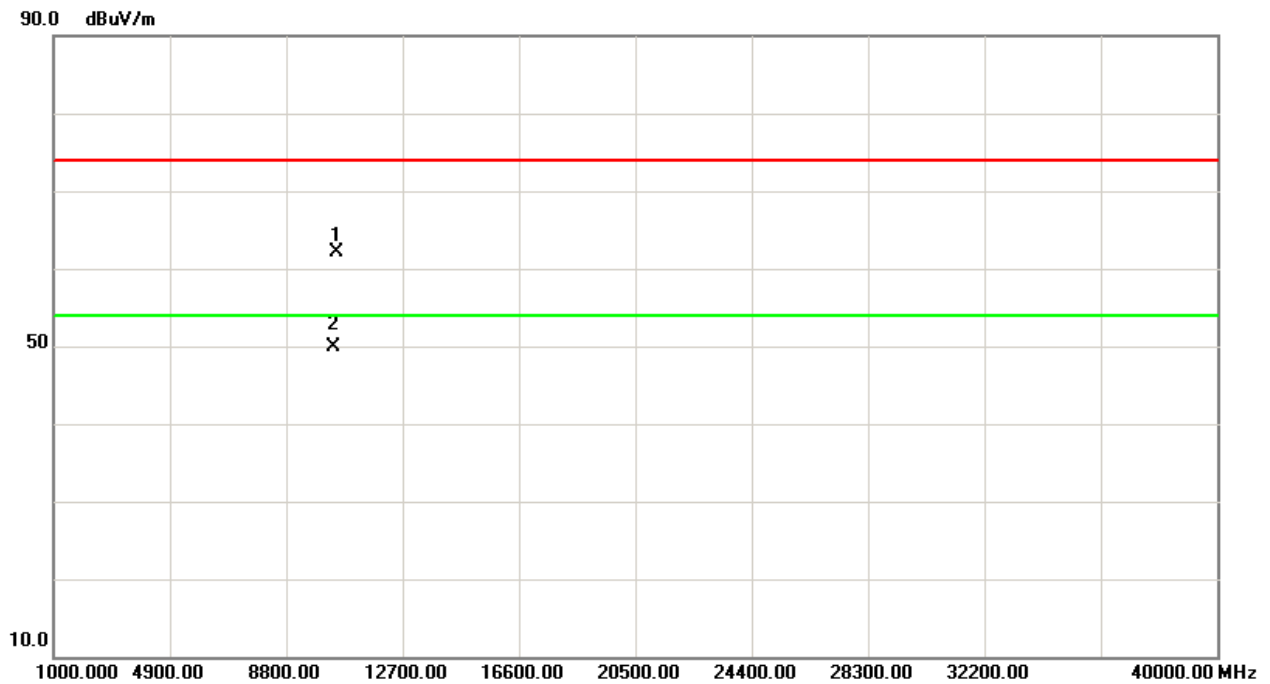
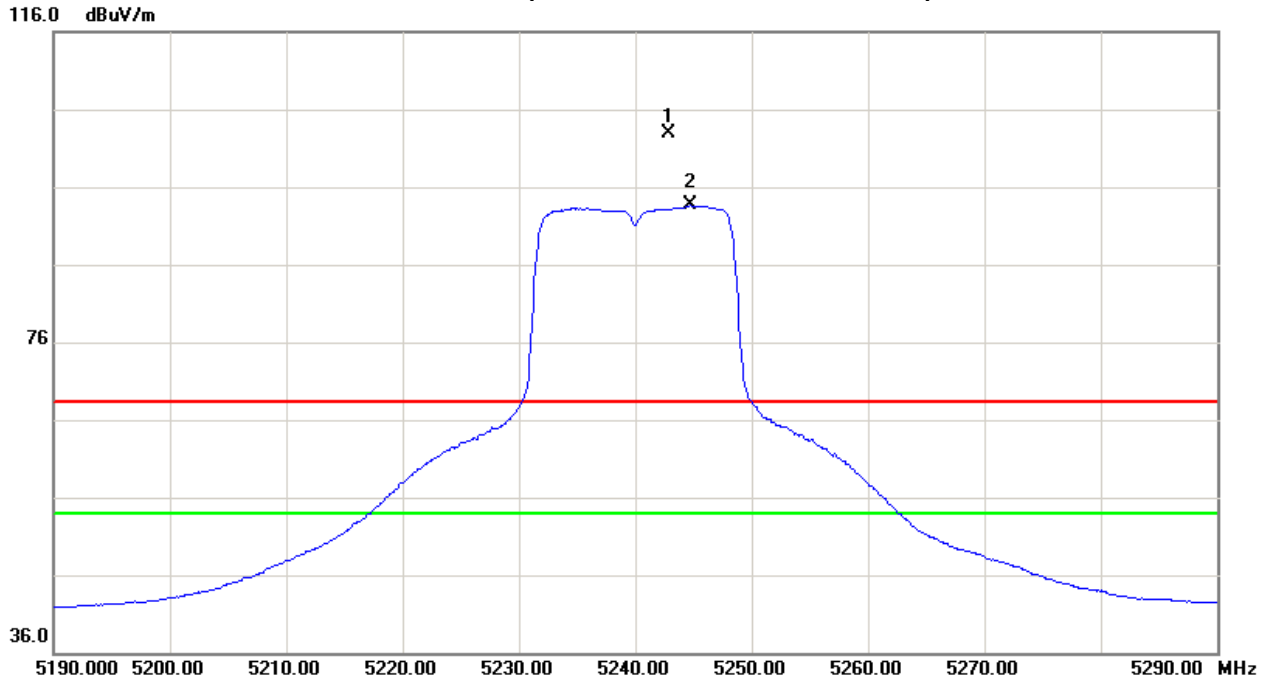


Orthogonal Axis:X  
Band 1/CH48(Above 1000 MHz, Vertical)





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





Test Mode : Band 1/ TX N20 Mode 5180MHz

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	14.10	4.78	42.72	56.82	47.50	-47.95	-57.27	68.30	54.00	-27.00	-41.30	X/E
5186.40	V	60.73	51.97	42.81	103.54	94.78	-1.23	-9.99					X/F
10360.70	V	38.54	29.16	16.03	54.57	45.19	-50.20	-59.58	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	13.45	3.98	42.72	56.17	46.70	-48.60	-58.07	68.30	54.00	-27.00	-41.30	X/E
5175.50	H	60.39	50.96	42.78	103.17	93.74	-1.60	-11.03					X/F
10360.10	H	40.27	30.13	16.03	56.30	46.16	-48.47	-58.61	68.30	54.00	-27.00	-41.30	X/H

Test Mode : Band 1/ TX N20 Mode 5200MHz

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	
5196.80	V	60.60	51.79	42.83	103.43	94.62	-1.34	-10.15					X/F
10402.40	V	40.37	30.21	15.96	56.33	46.17	-48.44	-58.60	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	
5194.50	H	59.64	50.53	42.83	102.47	93.36	-2.30	-11.41					X/F
10400.30	H	40.02	31.13	15.97	55.99	47.10	-48.78	-57.67	68.30	54.00	-27.00	-41.30	X/H

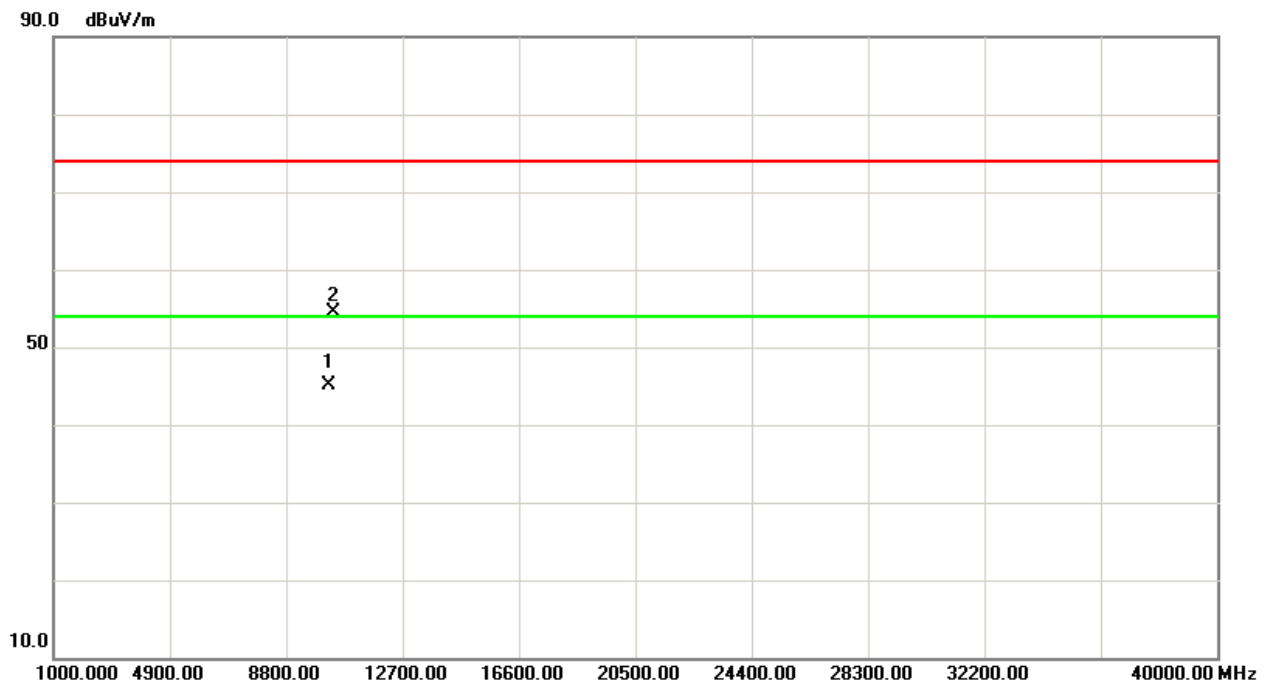
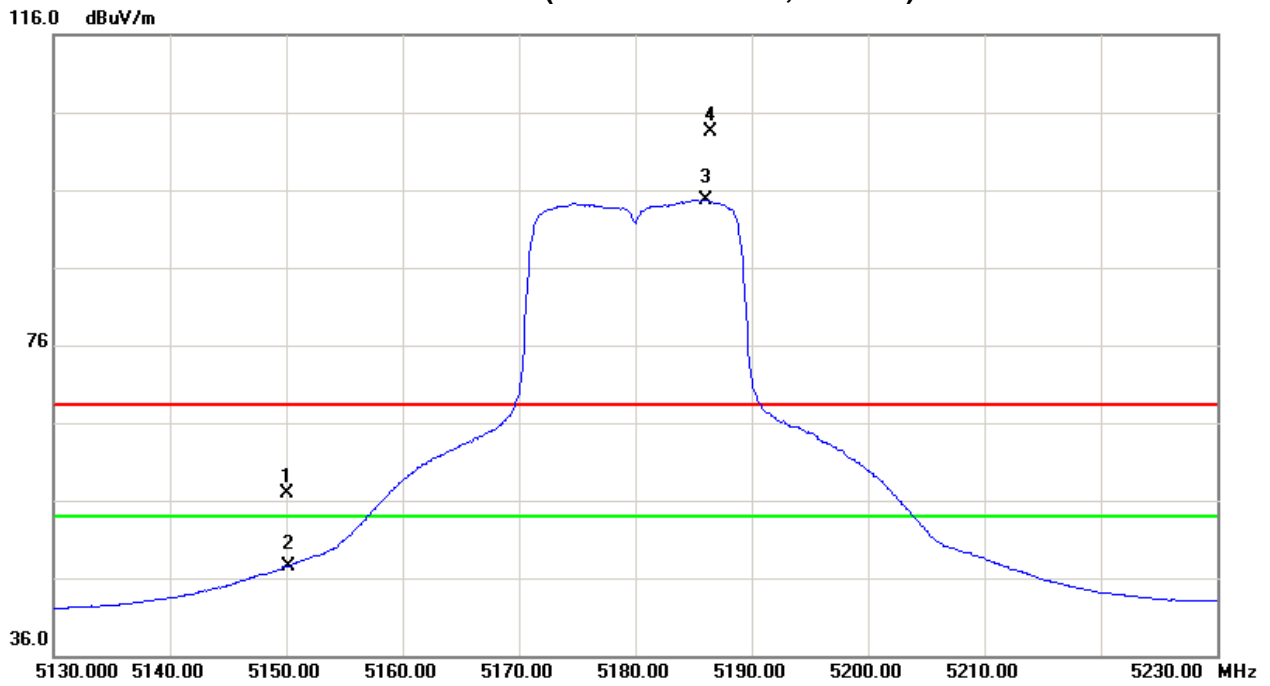
Test Mode : Band 1/ TX N20 Mode 5240MHz

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	
5243.00	V	61.21	52.37	42.95	104.16	95.32	-0.61	-9.45					X/F
10480.50	V	40.37	30.58	15.85	56.22	46.43	-48.55	-58.34	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	
5235.70	H	58.88	50.51	42.93	101.81	93.44	-2.96	-11.33					X/F
10480.10	H	41.65	32.01	15.86	57.51	47.87	-47.26	-56.90	68.30	54.00	-27.00	-41.30	X/H

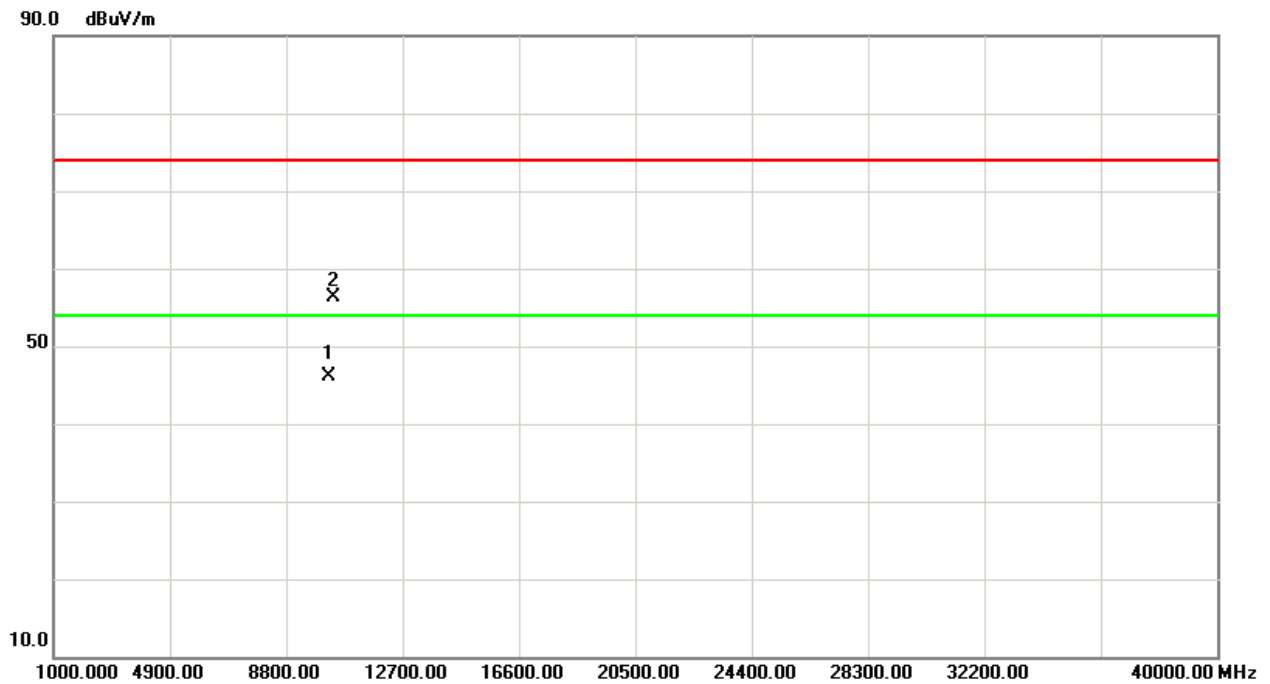
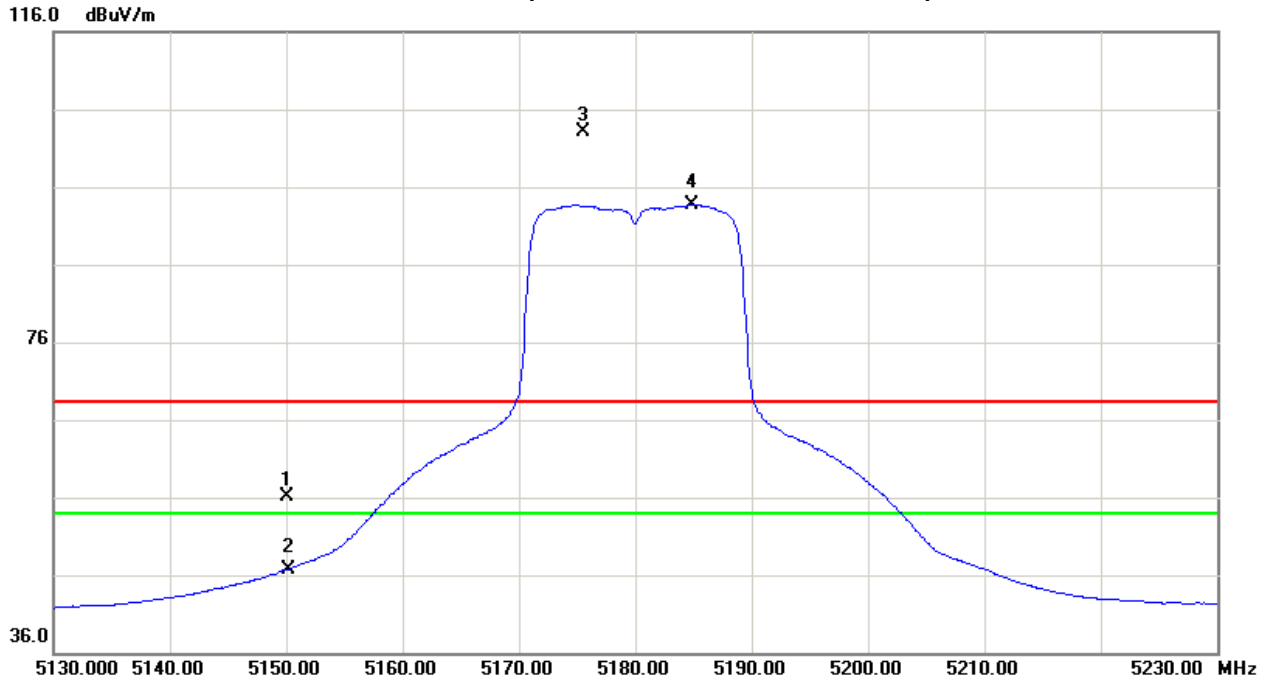


Orthogonal Axis:X  
Band 1/CH36(Above 1000 MHz, Vertical)



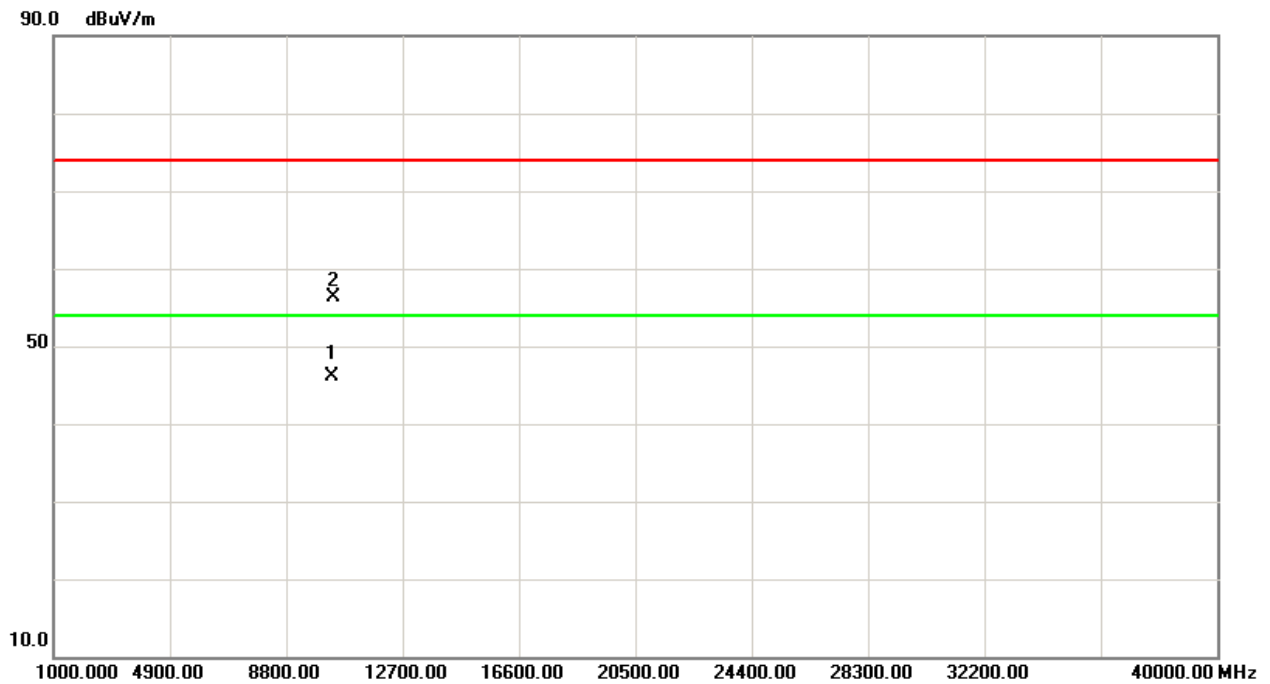
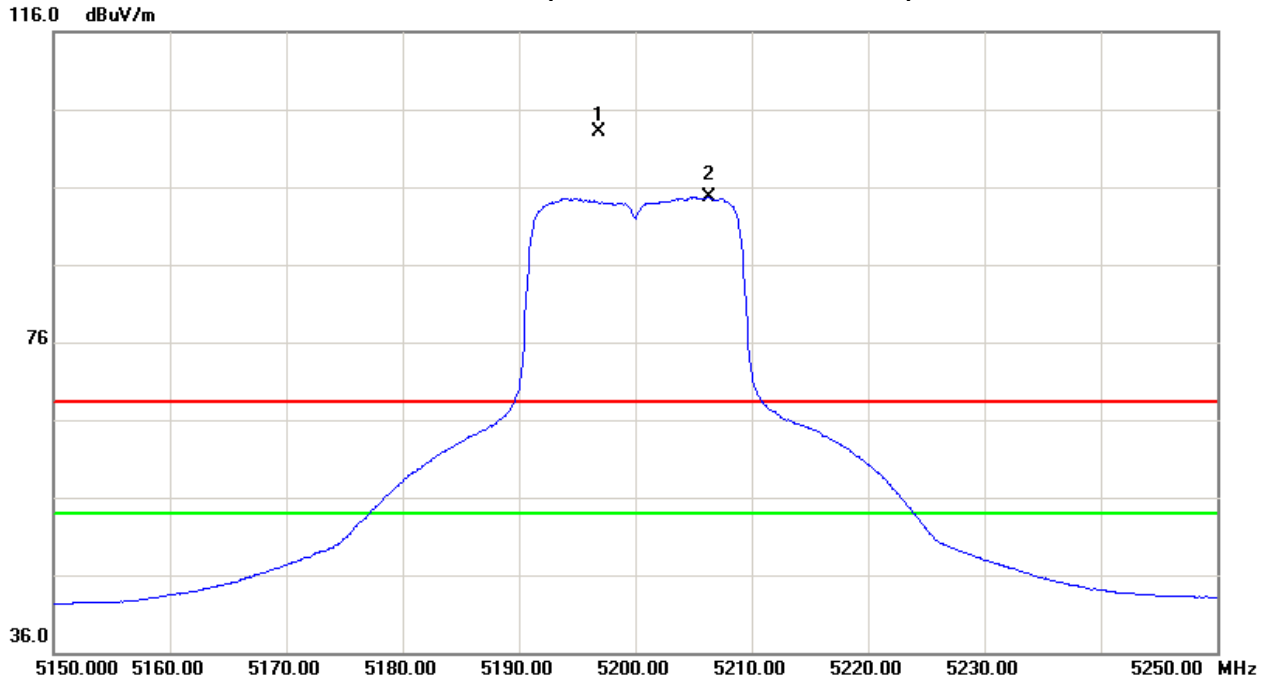


Orthogonal Axis:X  
Band 1/CH36(Above 1000 MHz, Horizontal)



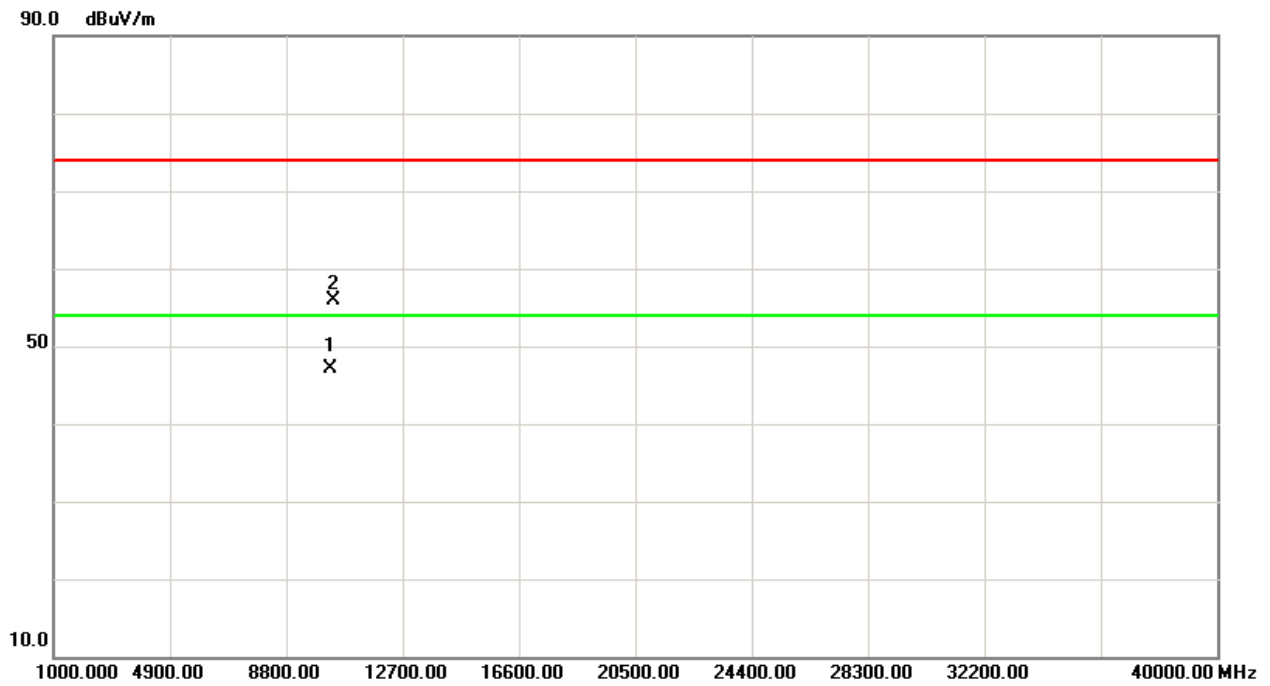
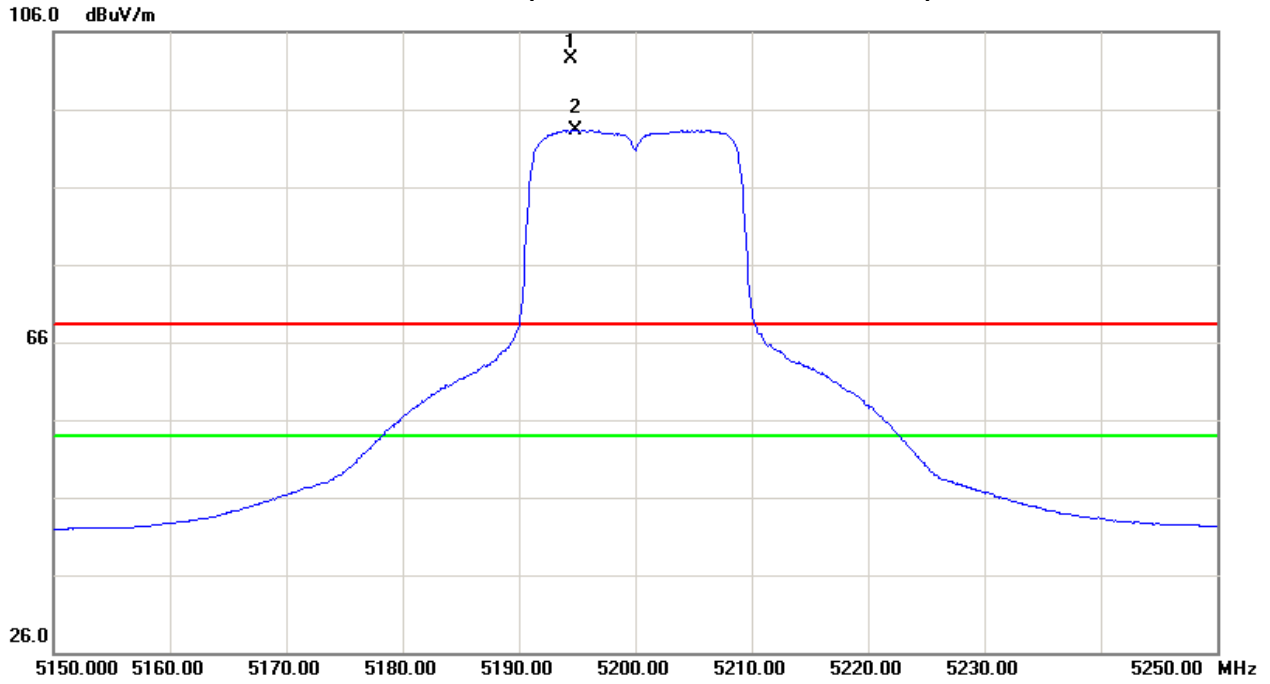


Orthogonal Axis:X  
Band 1/CH40(Above 1000 MHz, Vertical)



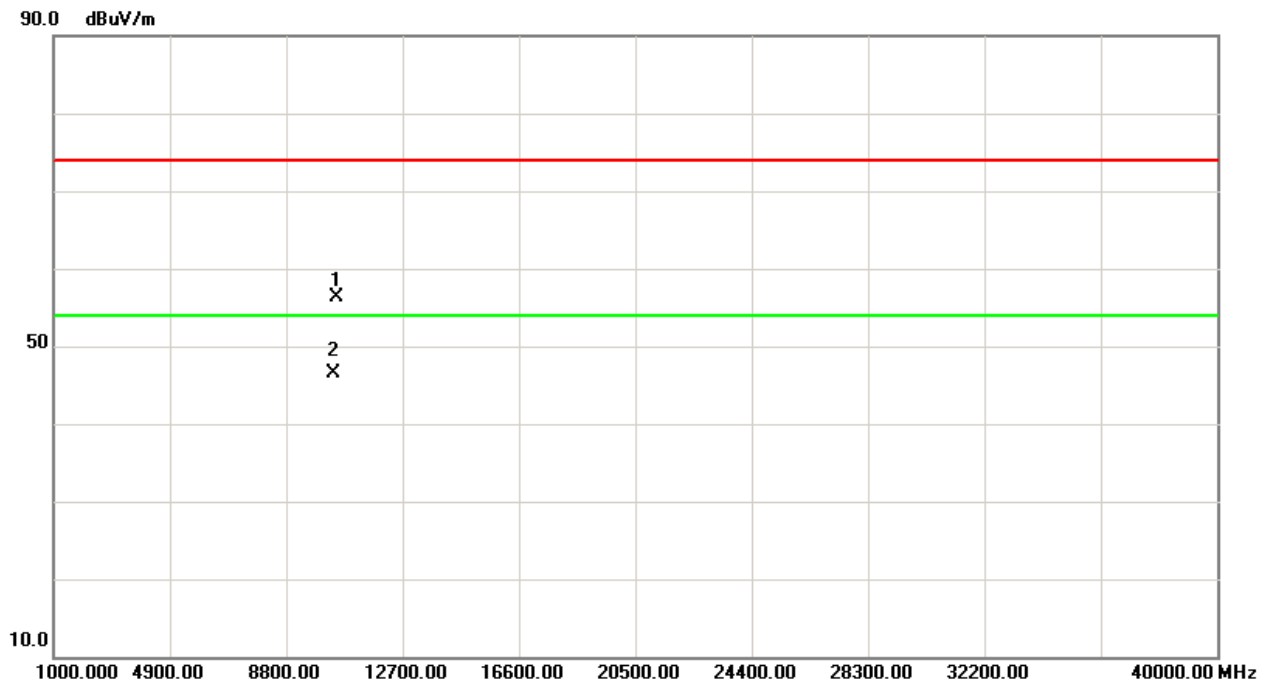
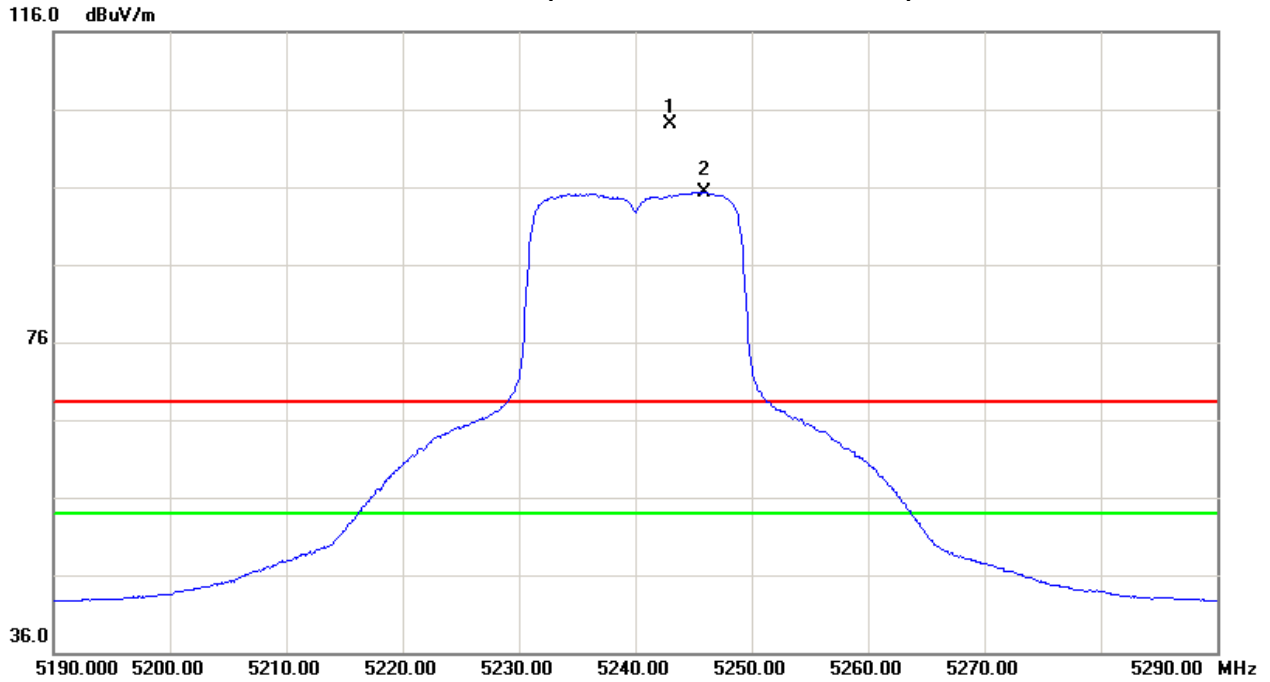


Orthogonal Axis:X  
Band 1/CH40(Above 1000 MHz, Horizontal)



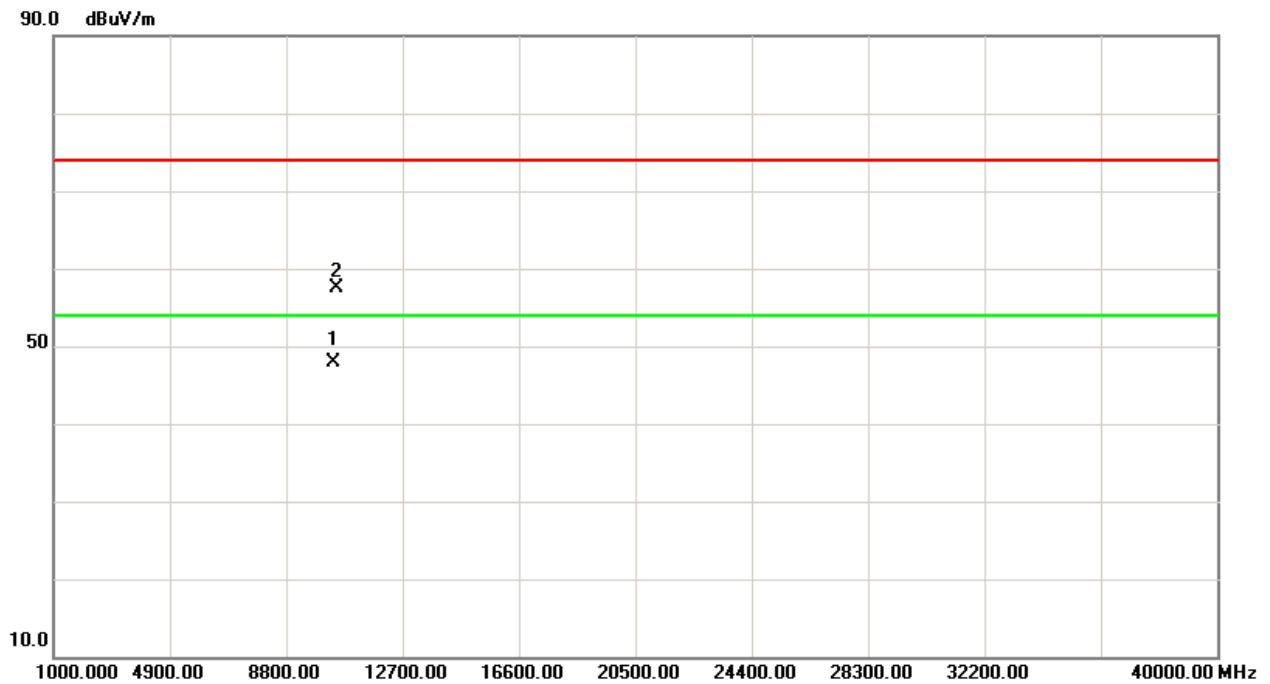
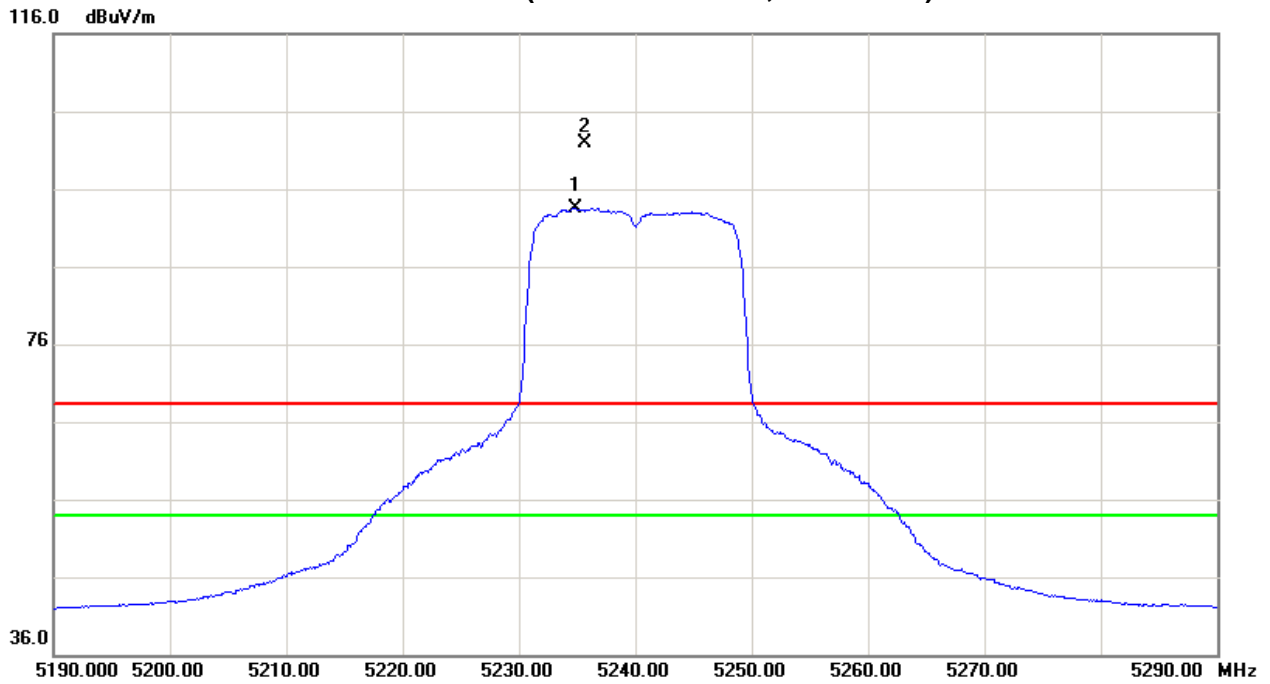


Orthogonal Axis:X  
Band 1/CH48(Above 1000 MHz, Vertical)





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





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	18.77	9.53	42.72	61.49	52.25	-43.28	-52.52	68.30	54.00	-27.00	-41.30	X/E
5197.40	V	57.96	49.03	42.83	100.79	91.86	-3.98	-12.91					X/F
10380.10	V	37.18	28.34	16.00	53.18	44.34	-51.59	-60.43	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	17.66	9.53	42.72	60.38	52.25	-44.39	-52.52	68.30	54.00	-27.00	-41.30	X/E
5195.80	H	58.01	48.40	42.83	100.84	91.23	-3.93	-13.54					X/F
10382.30	H	38.48	29.07	15.99	54.47	45.06	-50.30	-59.71	68.30	54.00	-27.00	-41.30	X/H

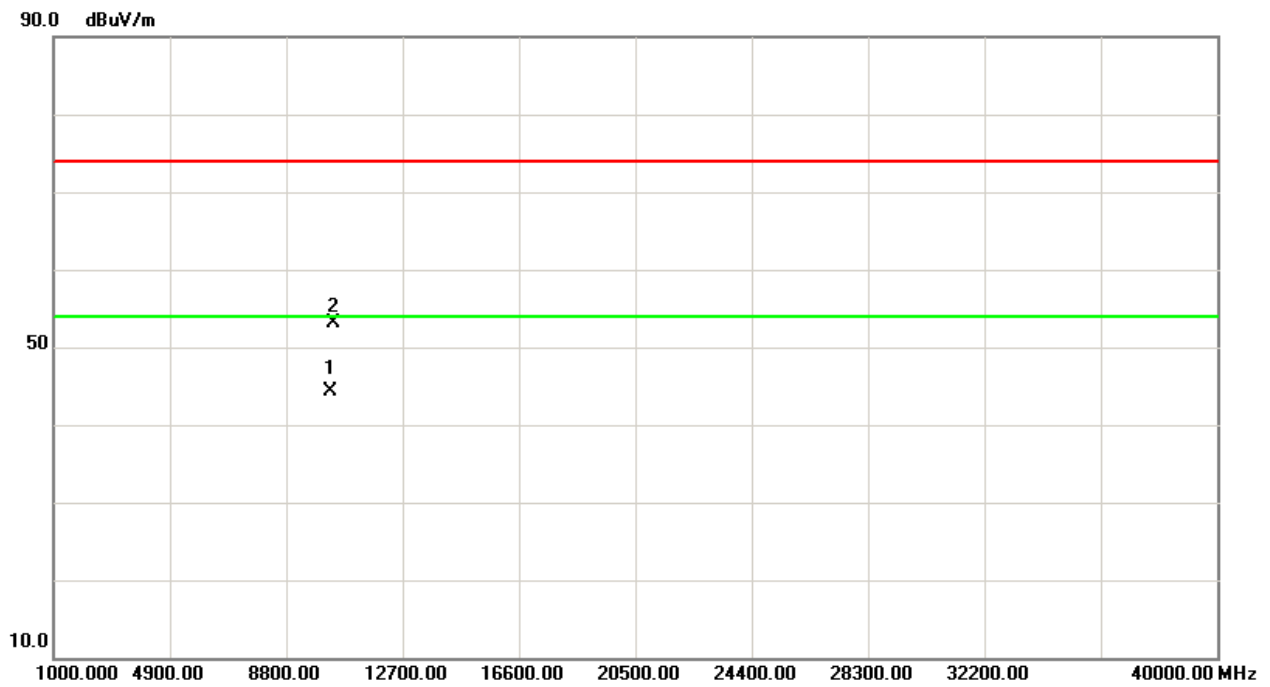
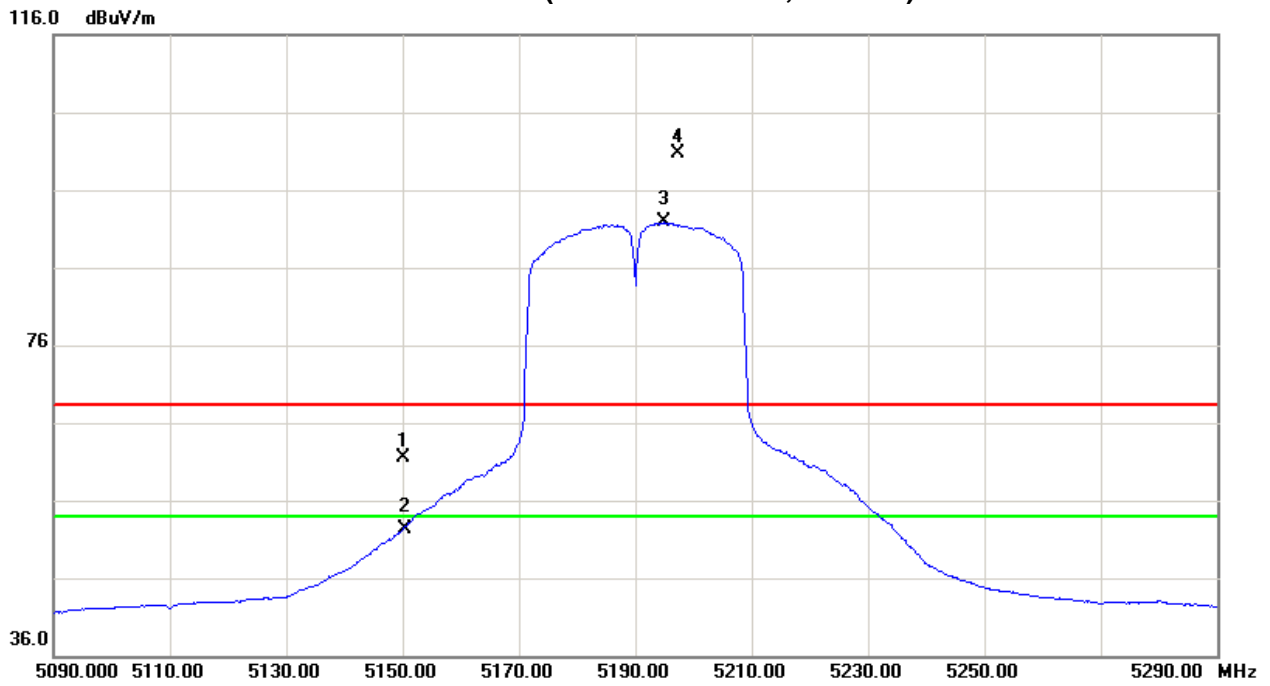
Test Mode : Band 1/ TX N40 Mode 5230MHz

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	
5225.40	V	58.67	49.15	42.90	101.57	92.05	-3.20	-12.72					X/F
10458.60	V	38.84	29.12	15.87	54.71	44.99	-50.06	-59.78	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	
5237.80	H	56.82	46.74	42.93	99.75	89.67	-5.02	-15.10					X/F
10461.40	H	38.56	31.43	15.88	54.44	47.31	-50.33	-57.46	68.30	54.00	-27.00	-41.30	X/H

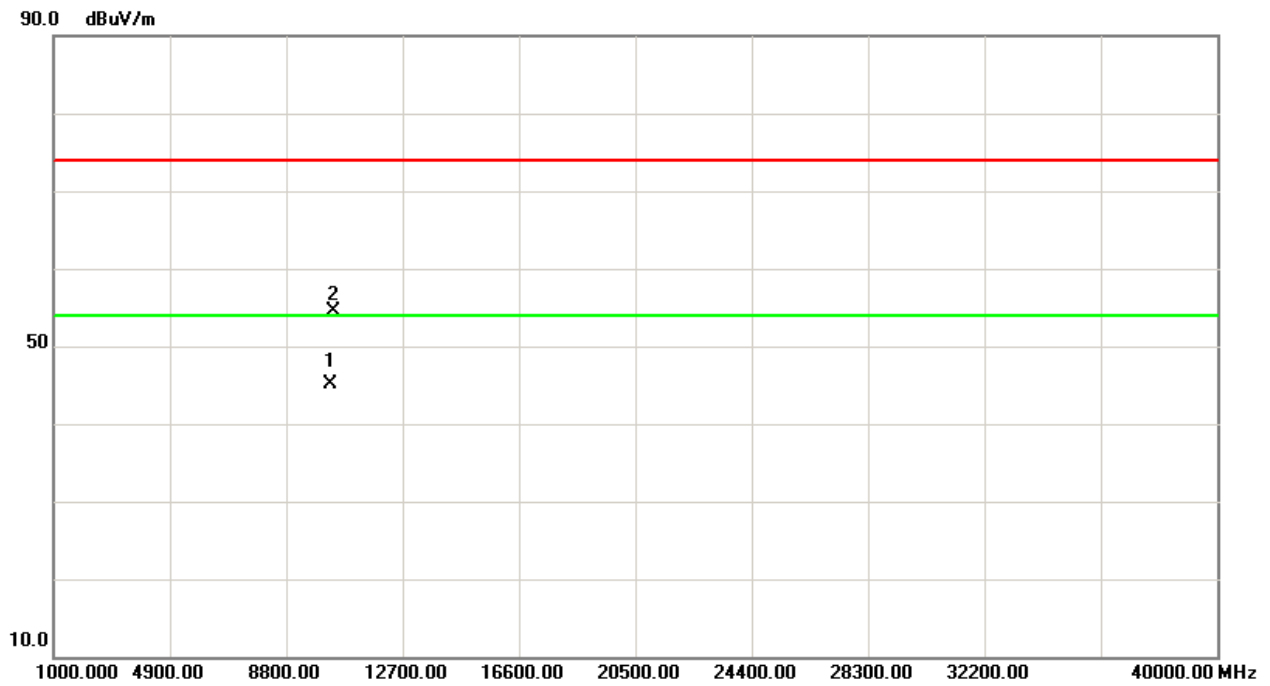
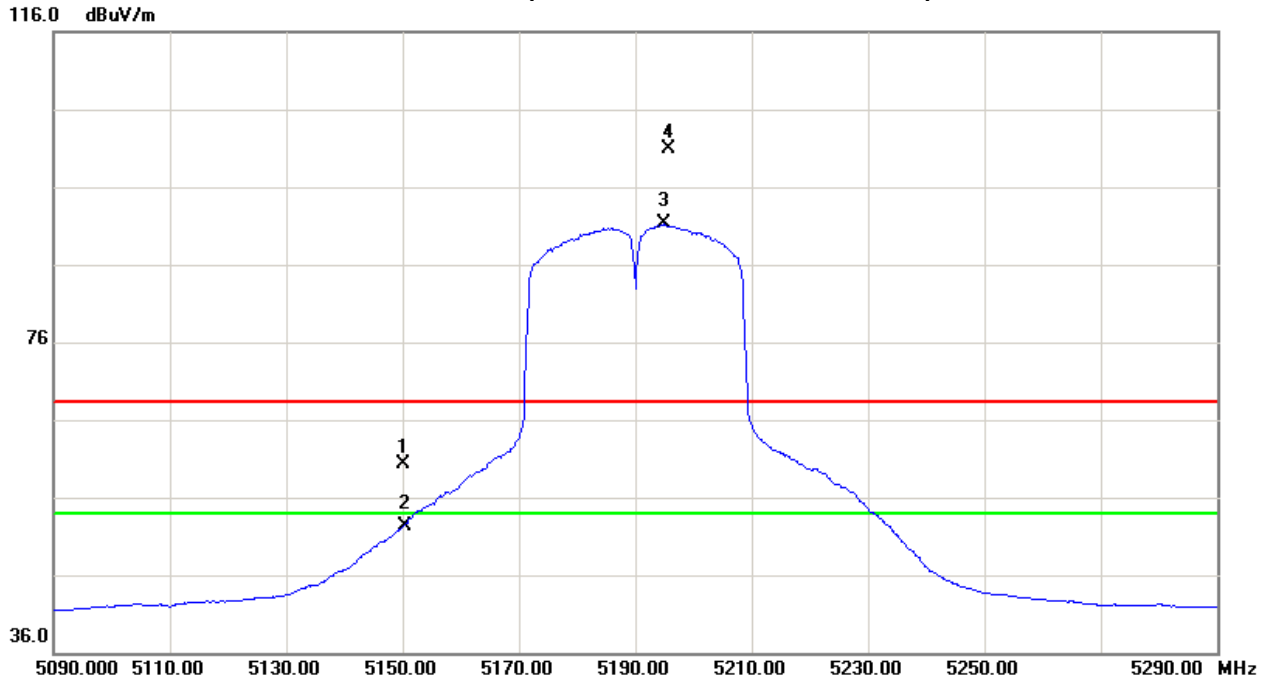


Orthogonal Axis: X  
Band 1/CH38(Above 1000 MHz, Vertical)



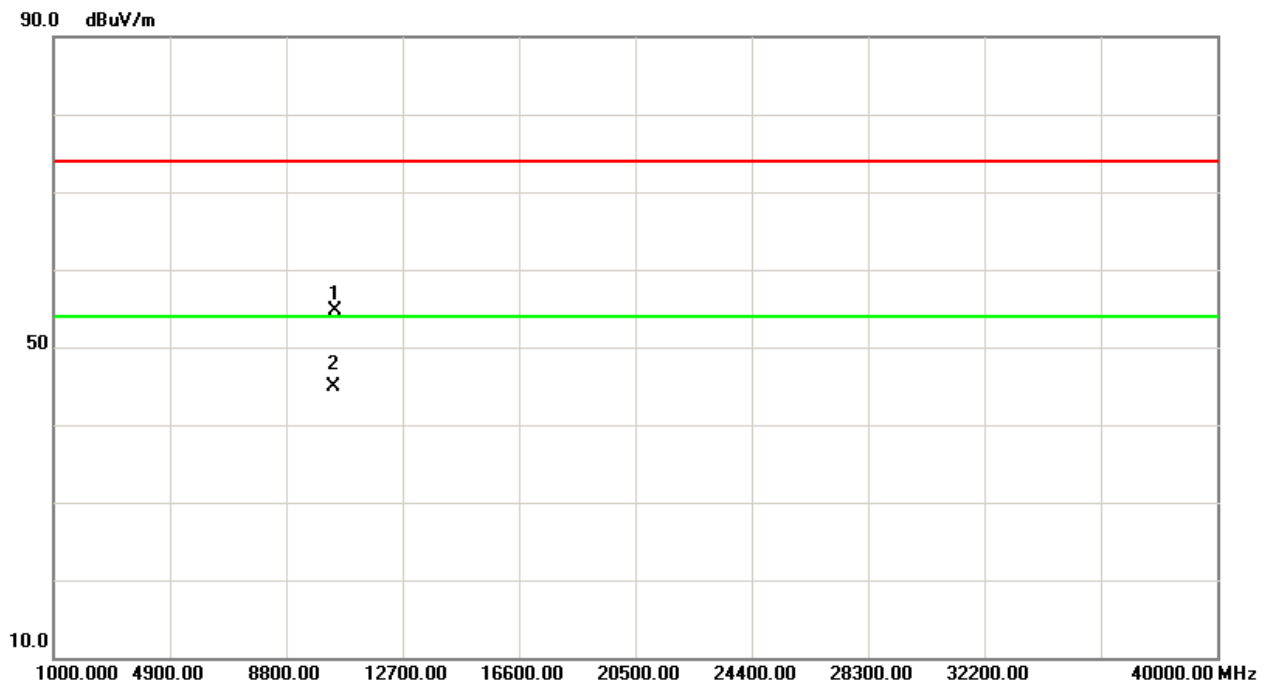
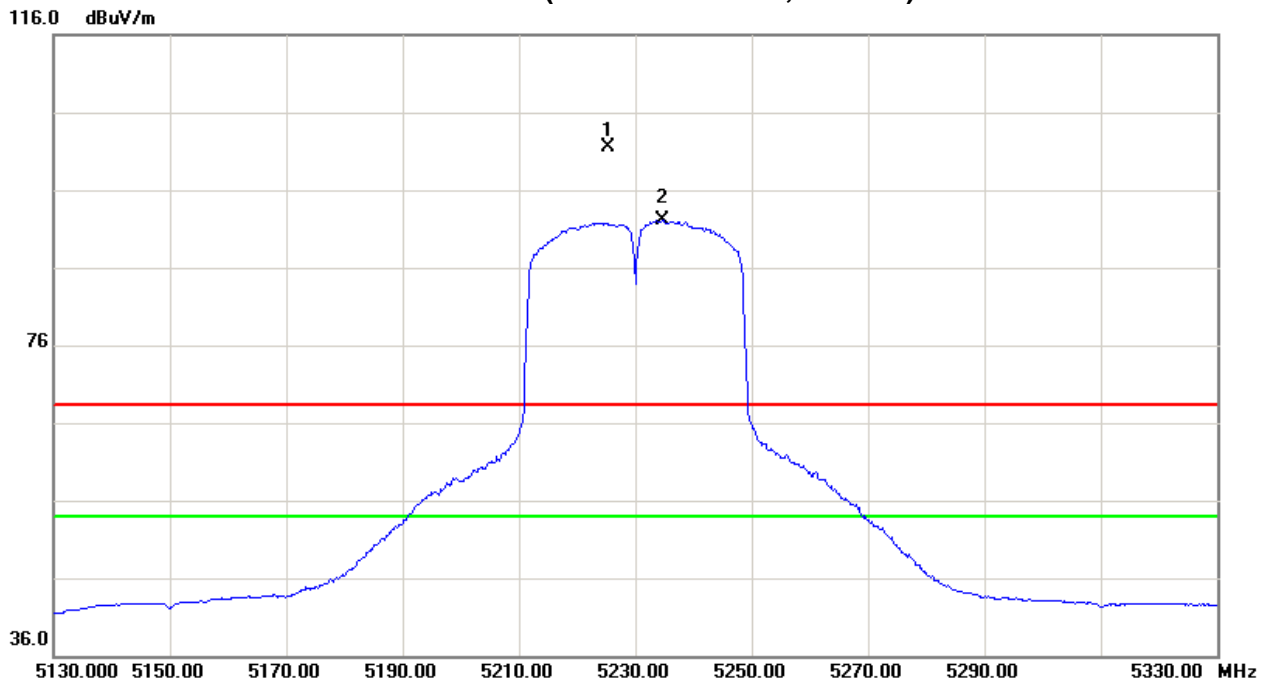


Orthogonal Axis:X  
Band 1/CH38(Above 1000 MHz, Horizontal)



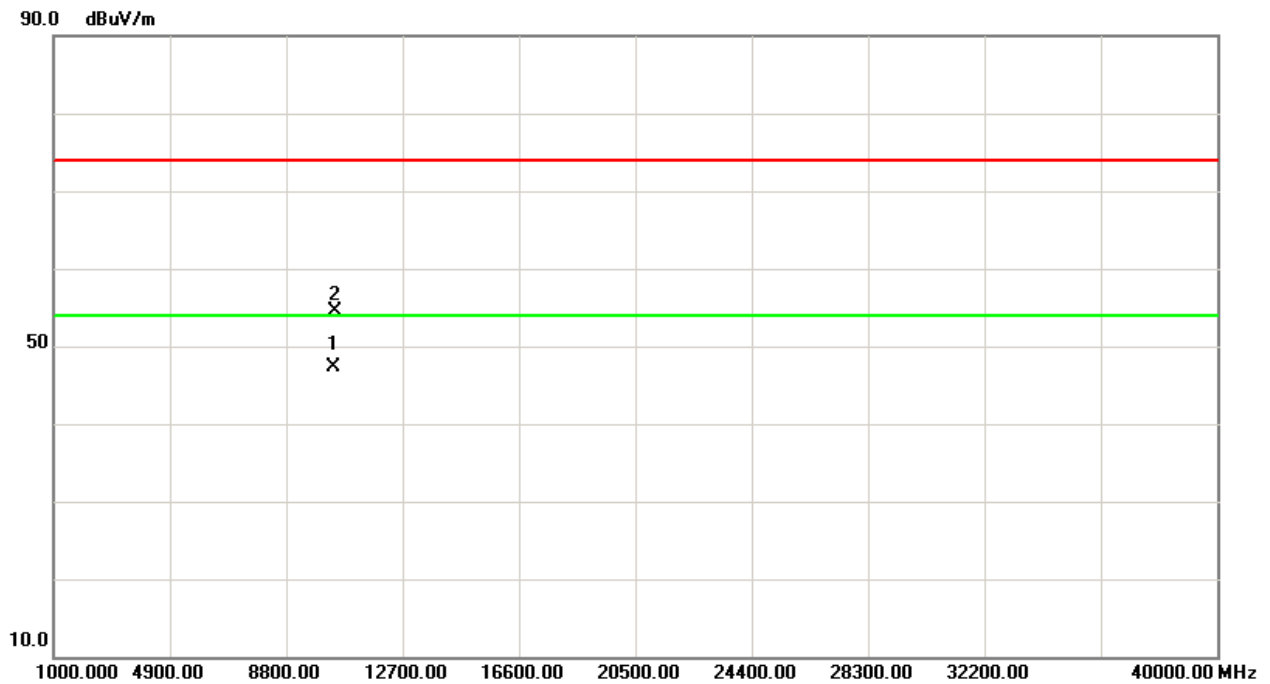
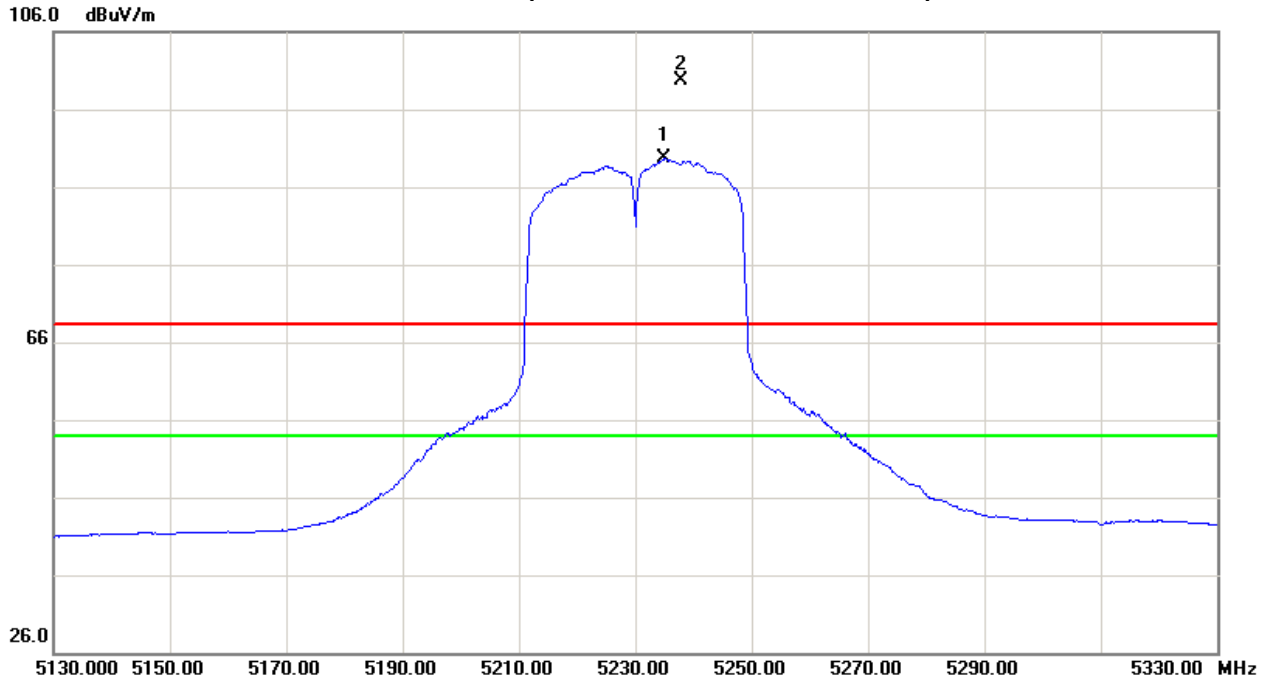


Orthogonal Axis: X  
Band 1/CH46(Above 1000 MHz, Vertical)





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	
5255.30	V	60.73	52.80	42.98	103.71	95.78	-1.06	-8.99					X/F
10521.80	V	45.72	32.69	15.88	61.60	48.57	-43.17	-56.20	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	
5258.20	H	63.16	54.26	42.98	106.14	97.24	1.37	-7.53					X/F
10520.00	H	46.36	36.78	15.88	62.24	52.66	-42.53	-52.11	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	
5285.00	V	61.25	53.24	43.06	104.31	96.30	-0.46	-8.47					X/F
10560.10	V	45.41	33.56	15.98	61.39	49.54	-43.38	-55.23	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	
5287.20	H	62.66	54.12	43.06	105.72	97.18	0.95	-7.59					X/F
10559.60	H	44.76	36.66	15.99	60.75	52.65	-44.02	-52.12	68.30	54.00	-27.00	-41.30	X/H

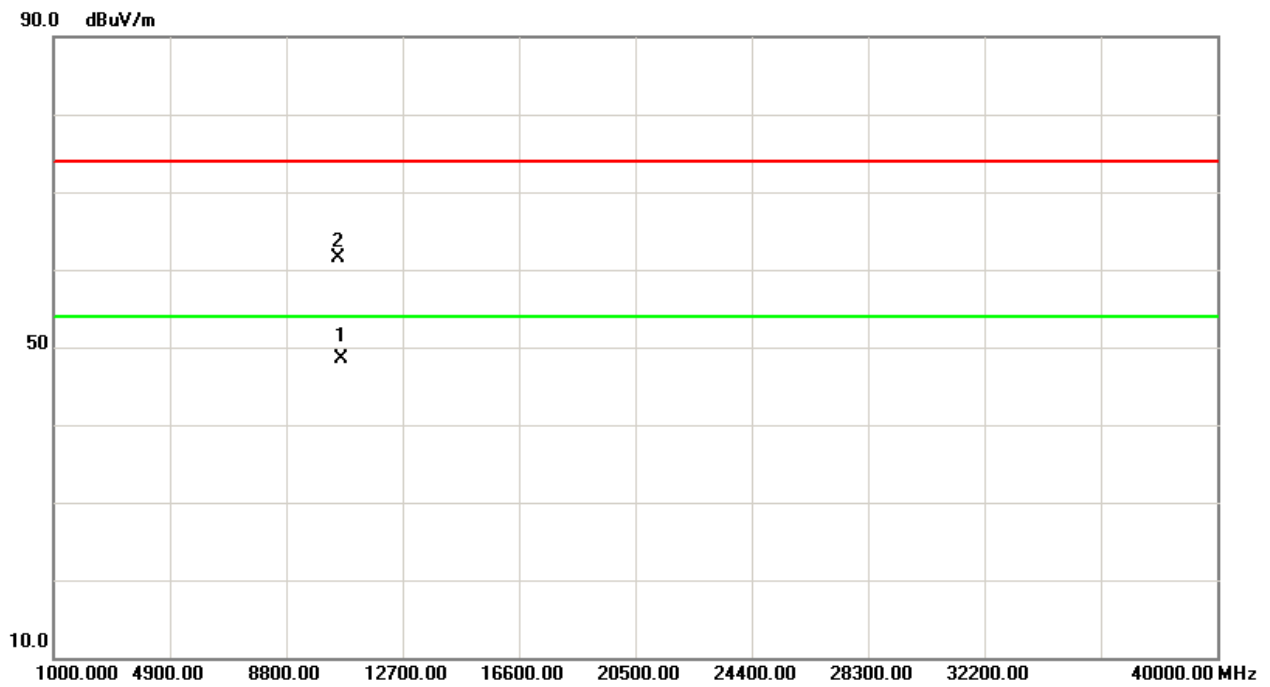
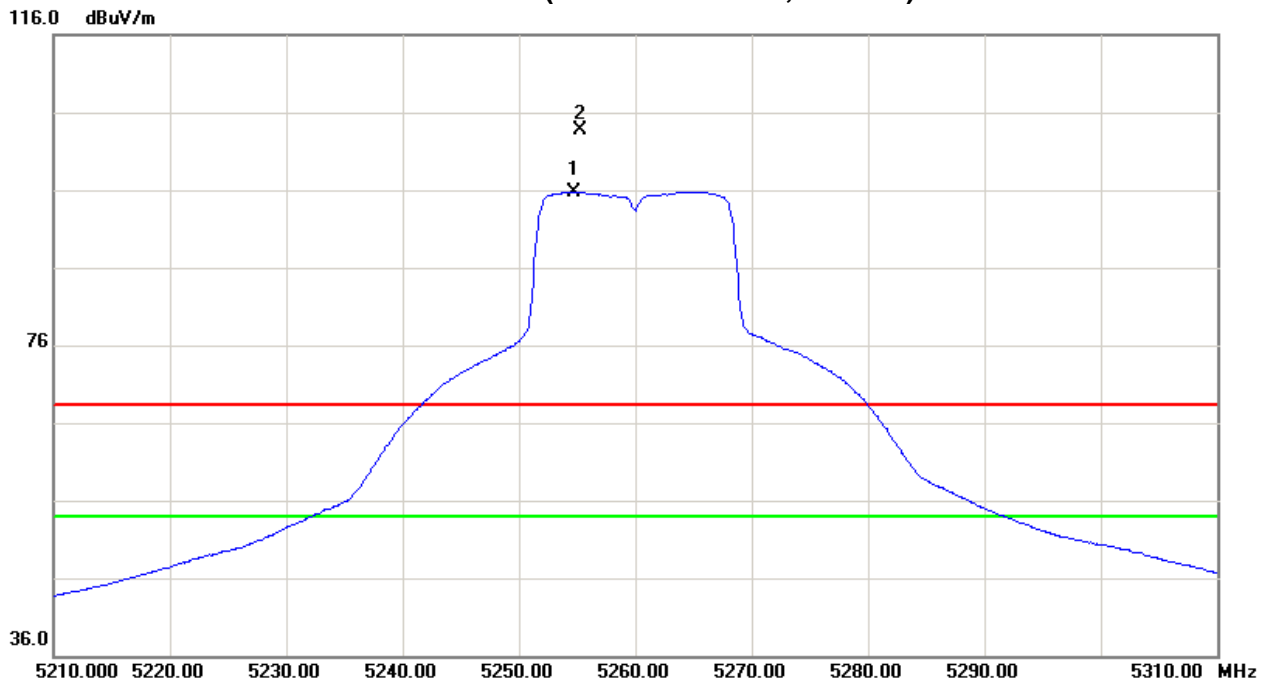
Test Mode : Band 2/ TX A Mode 5320MHz

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	
5324.70	V	60.37	52.58	43.15	103.52	95.73	-1.25	-9.04					X/F
5350.00	V	18.85	8.56	43.21	62.06	51.77	-42.71	-53.00	68.30	54.00	-27.00	-41.30	X/E
10639.80	V	43.46	33.86	16.22	59.68	50.08	-45.09	-54.69	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	
5325.80	H	61.15	53.46	43.15	104.30	96.61	-0.47	-8.16					X/F
5350.00	H	18.58	9.17	43.21	61.79	52.38	-42.98	-52.39	68.30	54.00	-27.00	-41.30	X/E
10642.50	H	44.95	36.84	16.23	61.18	53.07	-43.59	-51.70	68.30	54.00	-27.00	-41.30	X/H

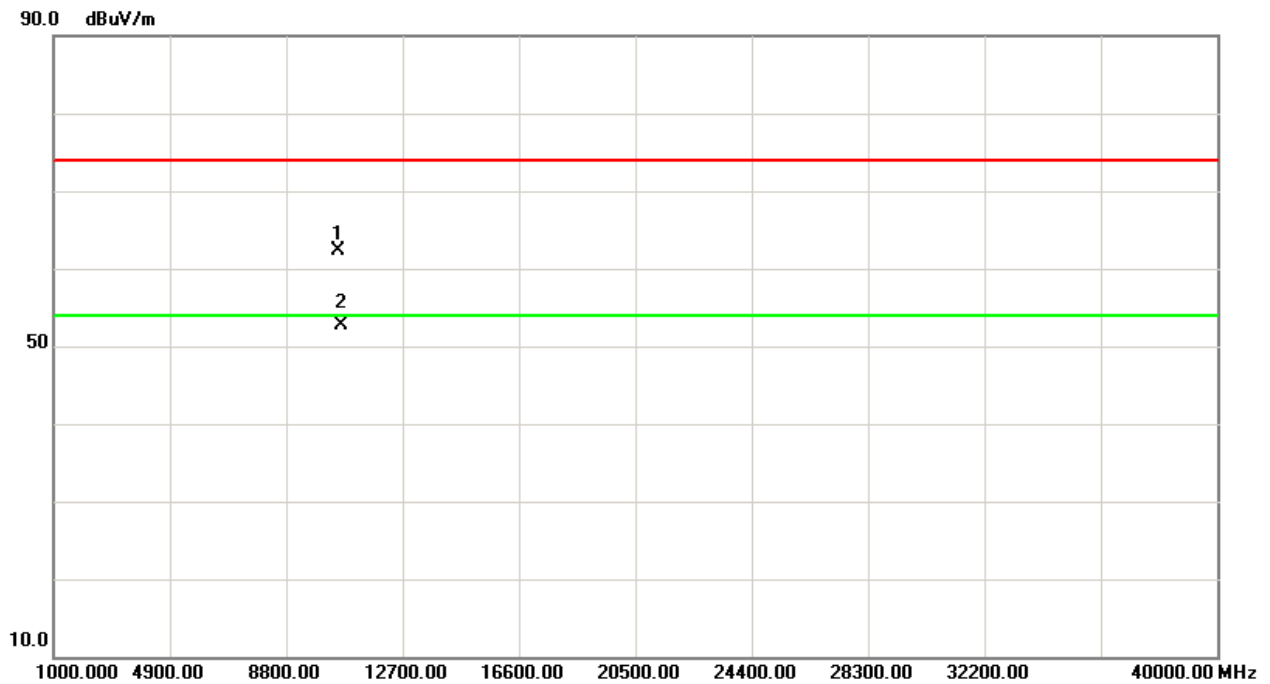
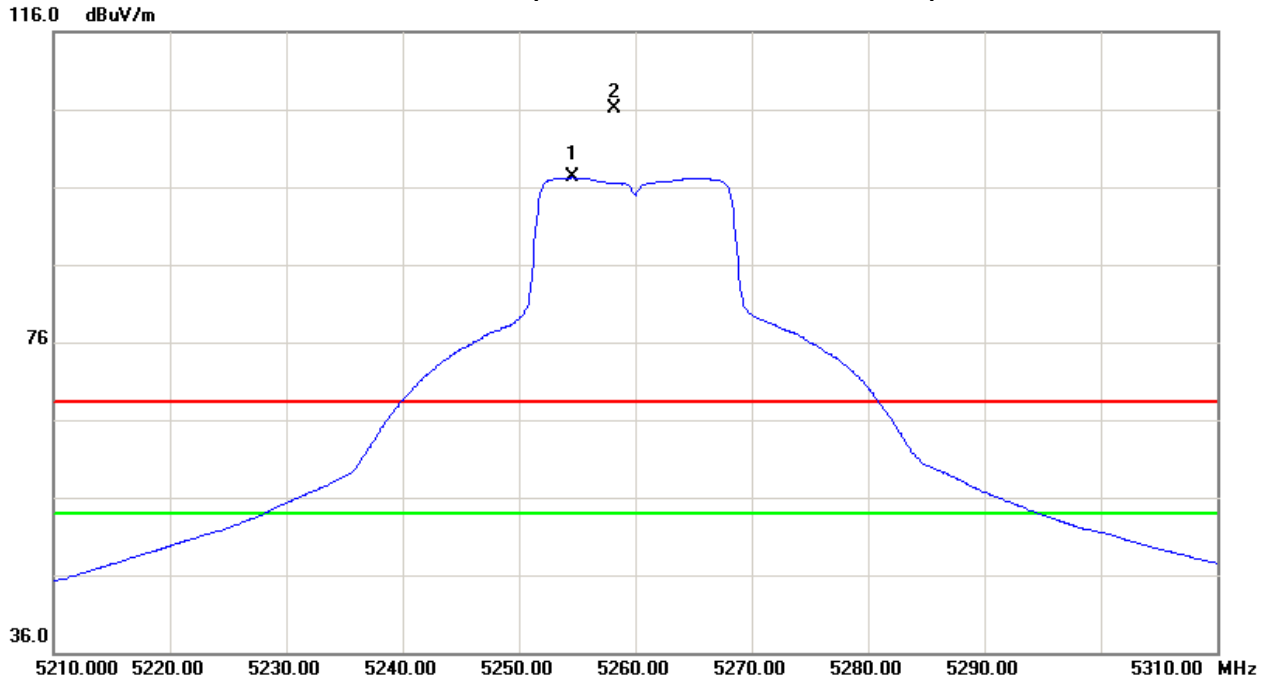


Orthogonal Axis: X  
Band 2/CH52(Above 1000 MHz, Vertical)



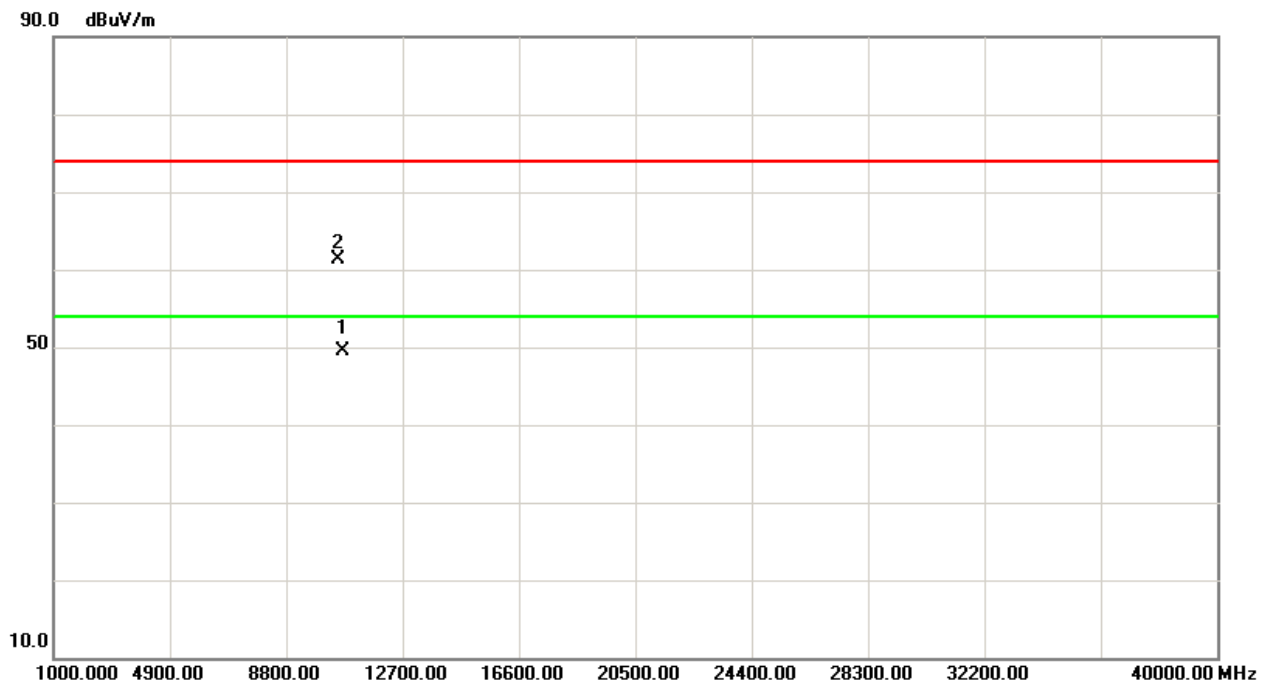
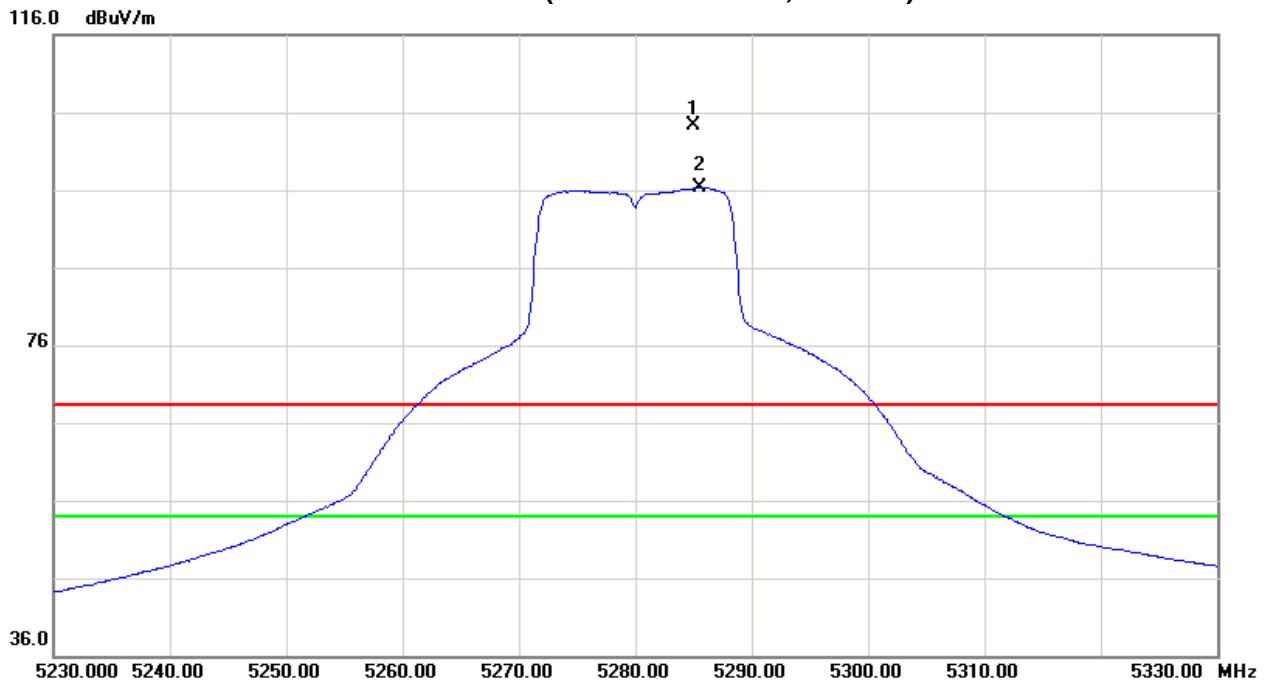


Orthogonal Axis:X  
Band 2/CH52 (Above 1000 MHz, Horizontal)



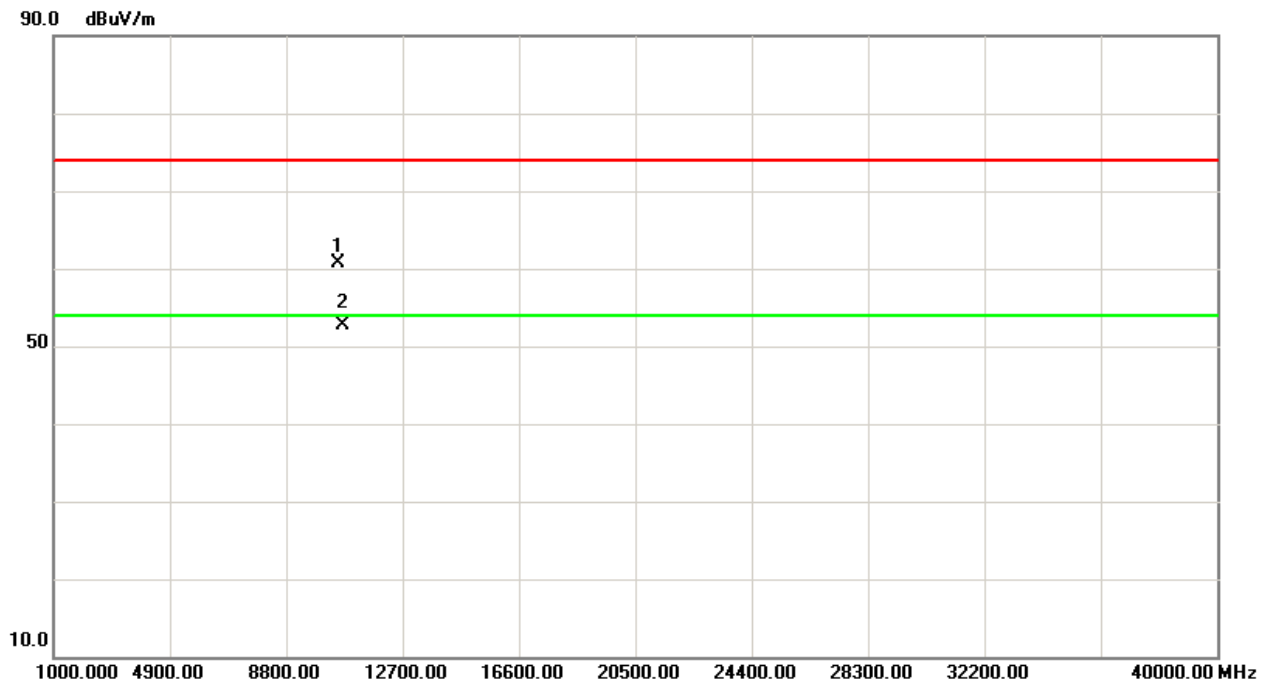
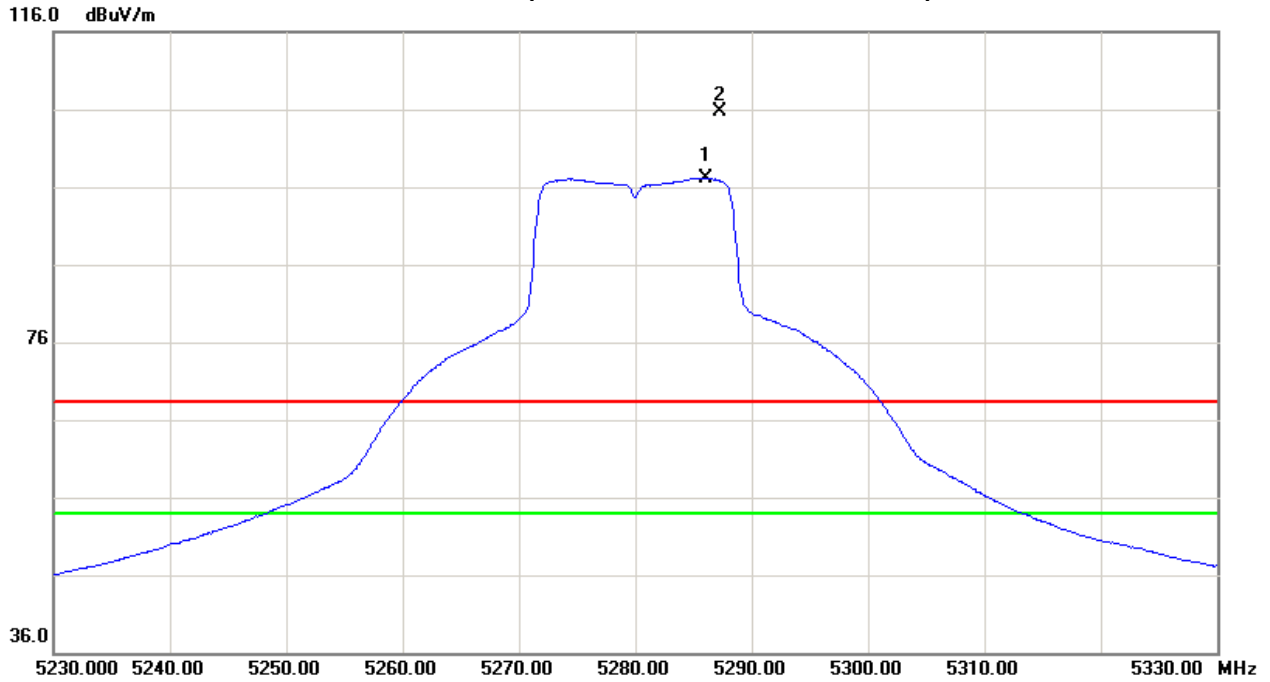


Orthogonal Axis:X  
Band 2/CH56(Above 1000 MHz, Vertical)



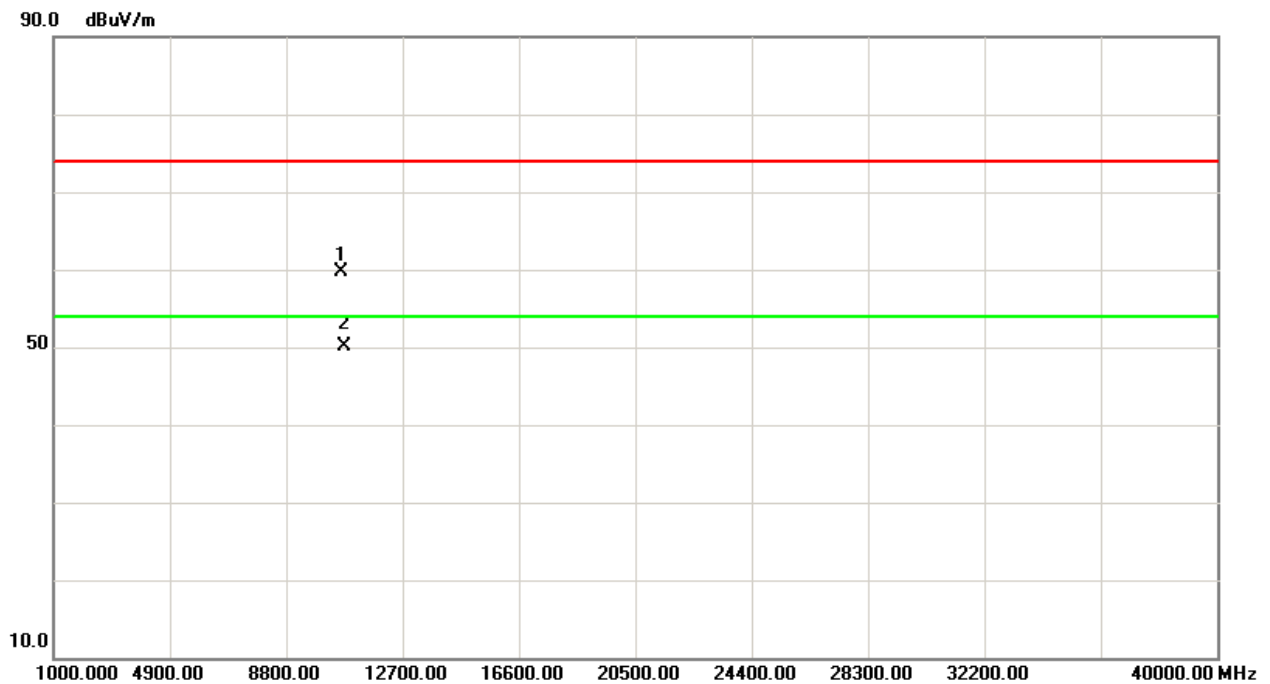
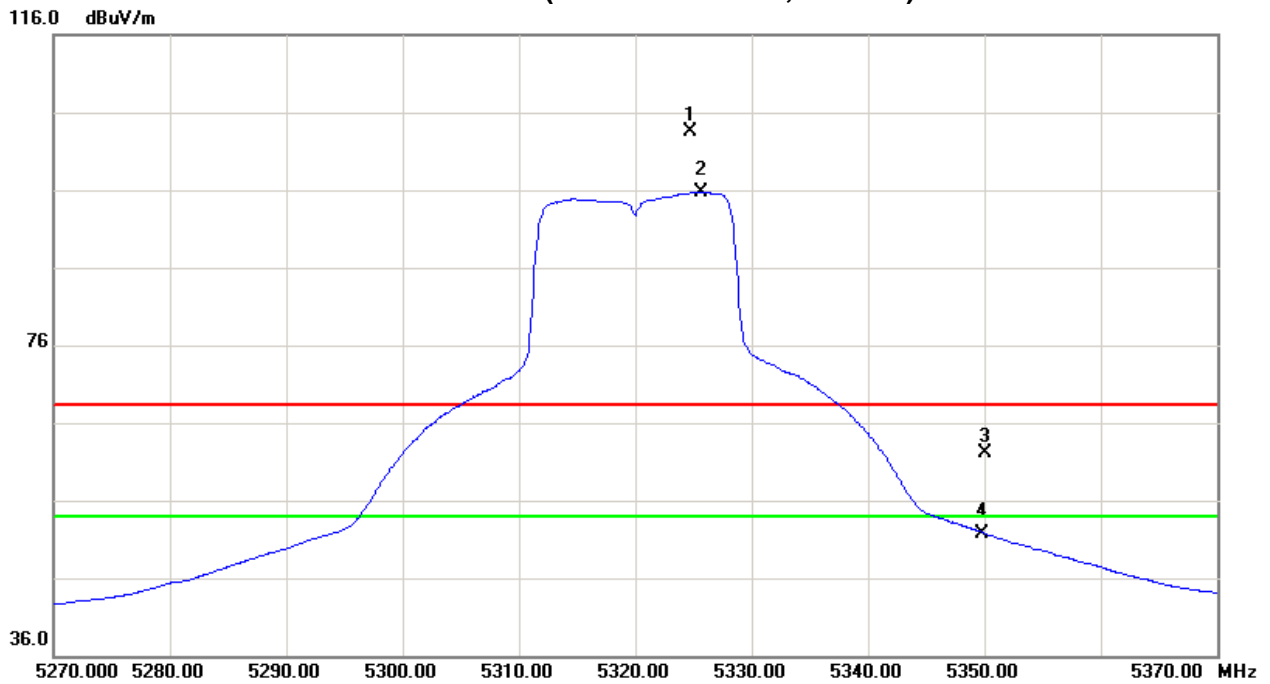


Orthogonal Axis:X  
Band 2/CH56(Above 1000 MHz, Horizontal)



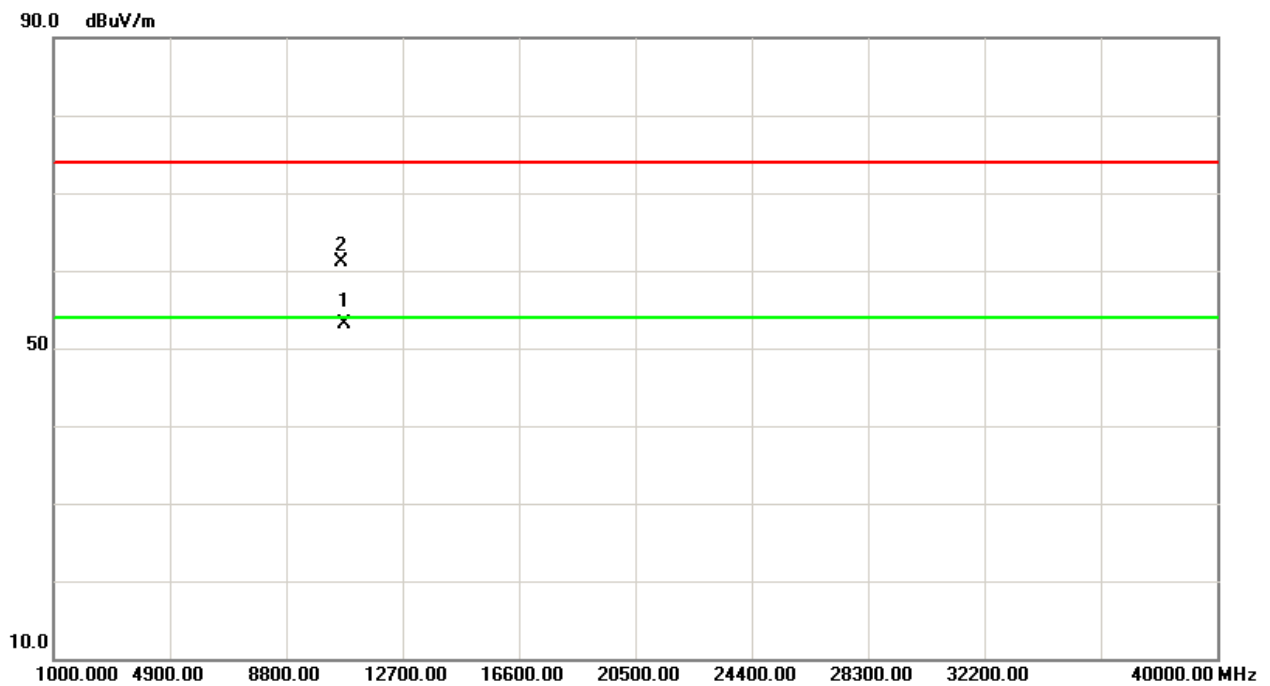
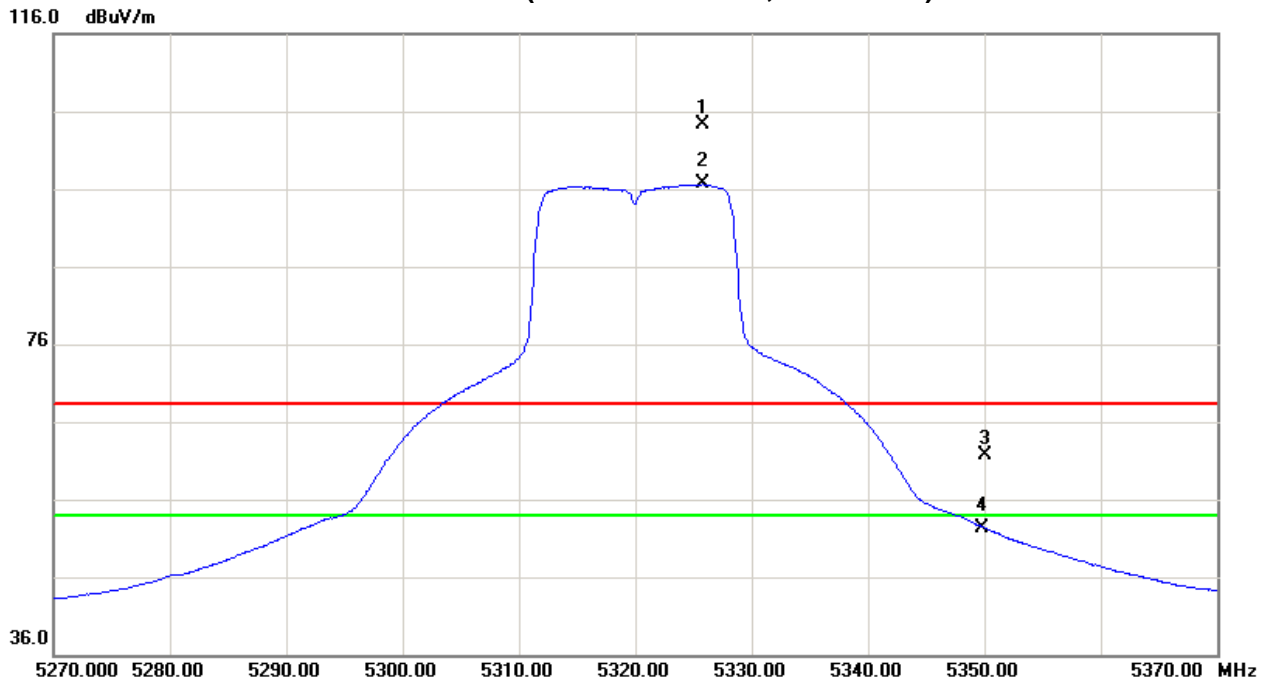


Orthogonal Axis:X  
Band 2/CH64(Above 1000 MHz, Vertical)





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	
5261.30	V	61.29	52.88	42.99	104.28	95.87	-0.49	-8.90					X/F
10521.80	V	42.34	31.97	15.88	58.22	47.85	-46.55	-56.92	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	
5263.50	H	60.05	50.78	43.00	103.05	93.78	-1.72	-10.99					X/F
10521.10	H	42.60	33.12	15.88	58.48	49.00	-46.29	-55.77	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	
5286.10	V	62.34	52.38	43.06	105.40	95.44	0.63	-9.33					X/F
10558.70	V	42.39	32.04	15.98	58.37	48.02	-46.40	-56.75	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	
5283.30	H	60.96	51.22	43.04	104.00	94.26	-0.77	-10.51					X/F
10560.30	H	44.76	36.66	15.99	60.75	52.65	-44.02	-52.12	68.30	54.00	-27.00	-41.30	X/H

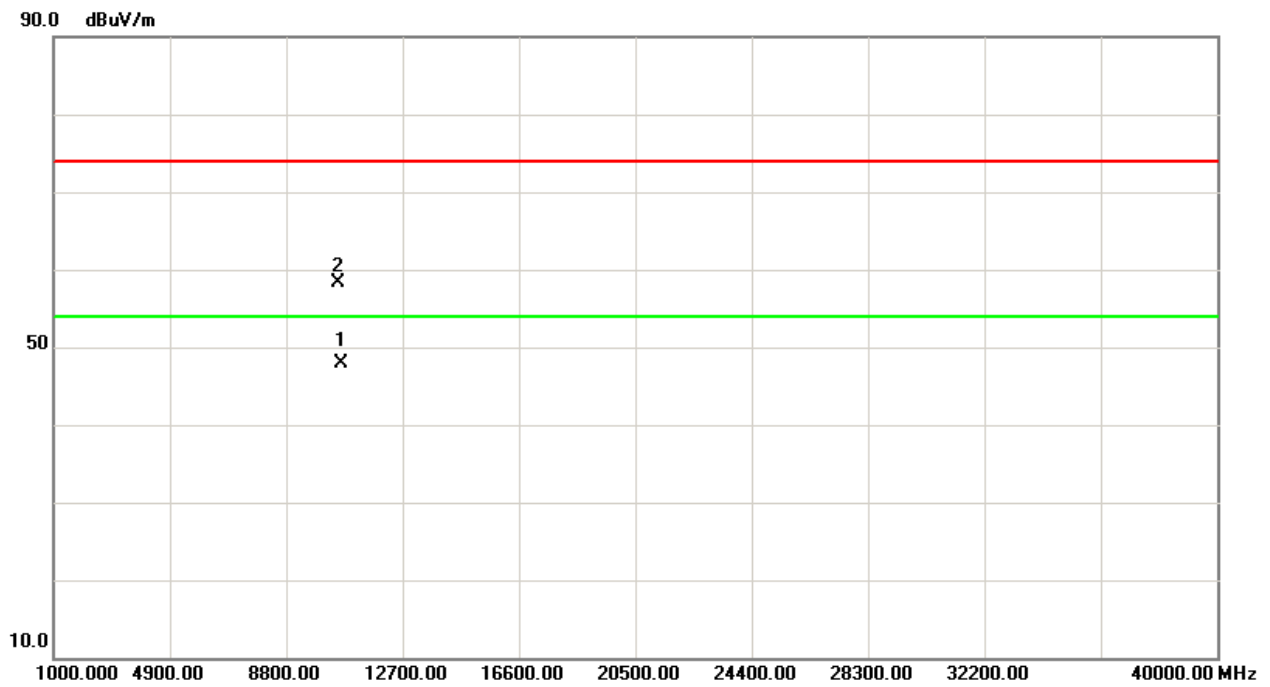
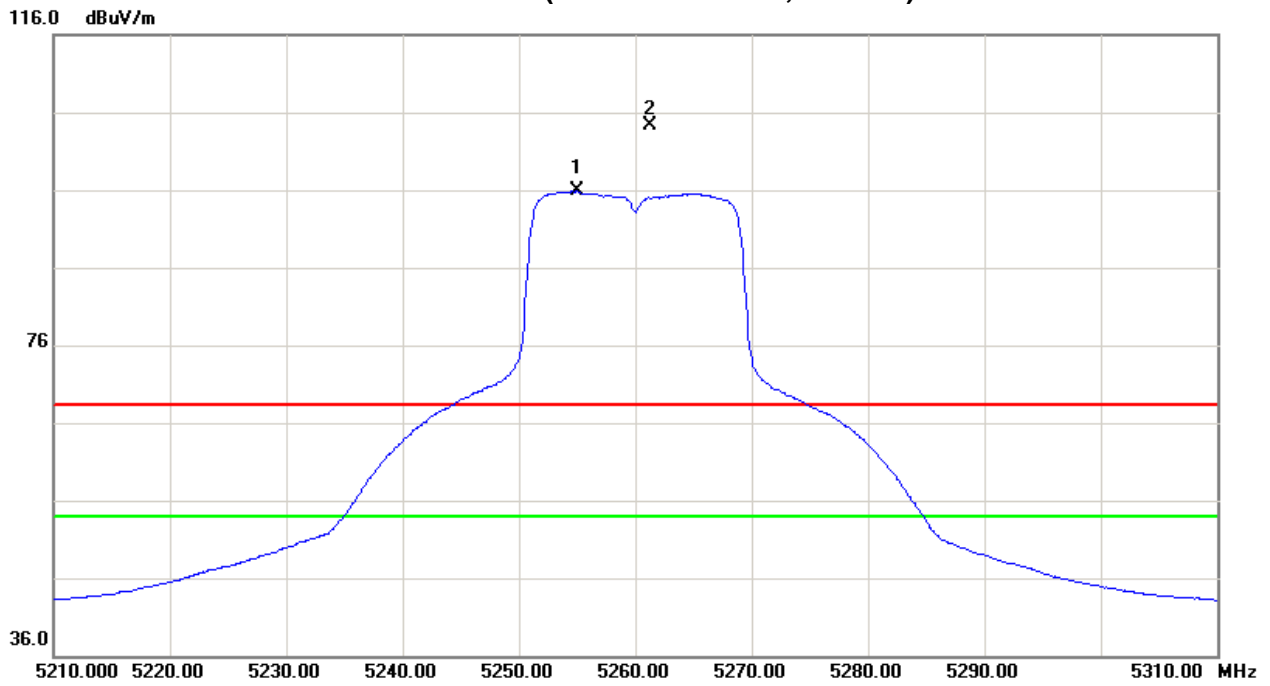
Test Mode : Band 2/ TX N20 Mode 5320MHz

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	
5324.80	V	61.40	52.82	43.15	104.55	95.97	-0.22	-8.80					X/F
5350.00	V	16.03	6.32	43.21	59.24	49.53	-45.53	-55.24	68.30	54.00	-27.00	-41.30	X/E
10642.40	V	43.07	33.31	16.23	59.30	49.54	-45.47	-55.23	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	61.95	52.04	43.15	105.10	95.19	0.33	-9.58					X/F
5350.00	H	19.20	7.98	43.21	62.41	51.19	-42.36	-53.58	68.30	54.00	-27.00	-41.30	X/E
10641.40	H	44.08	33.21	16.23	60.31	49.44	-44.46	-55.33	68.30	54.00	-27.00	-41.30	X/H

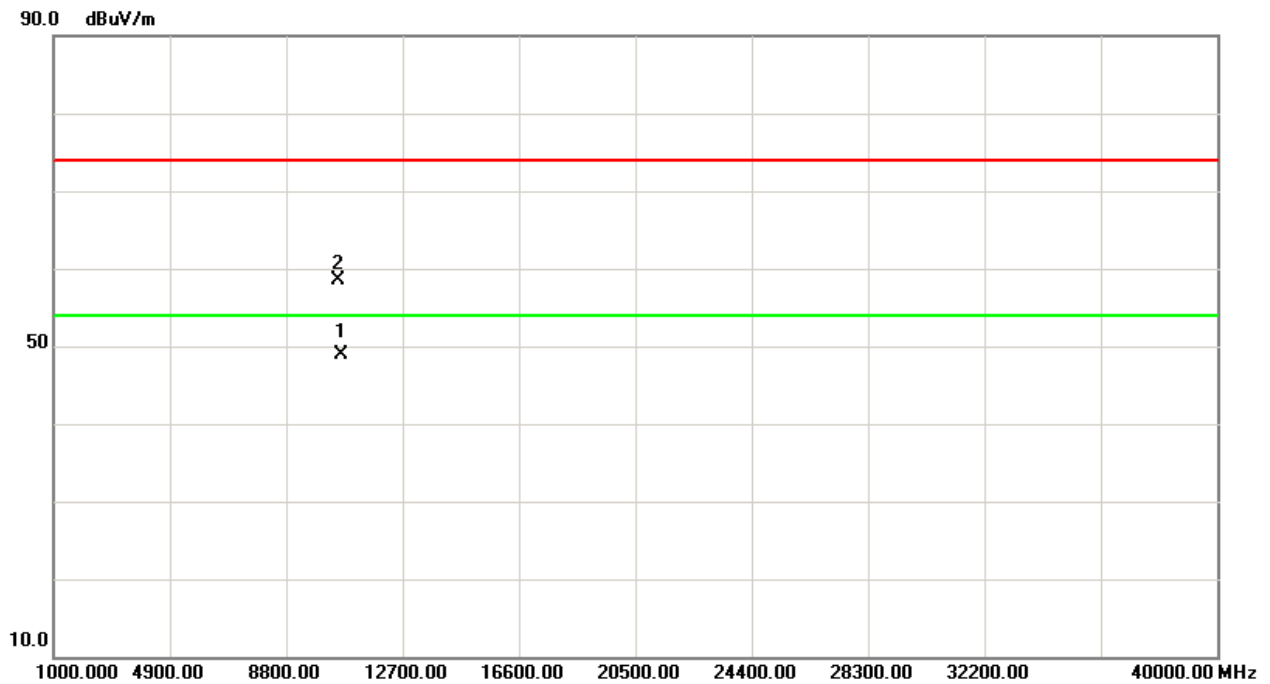
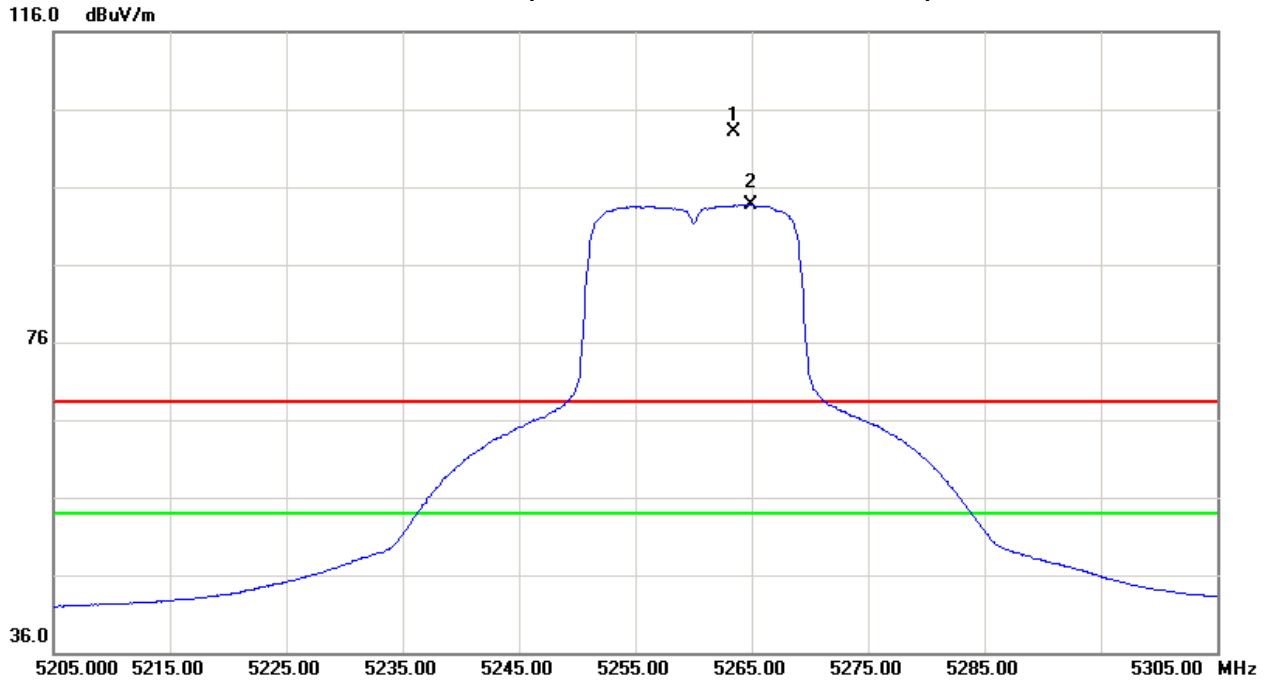


Orthogonal Axis: X  
Band 2/CH52(Above 1000 MHz, Vertical)



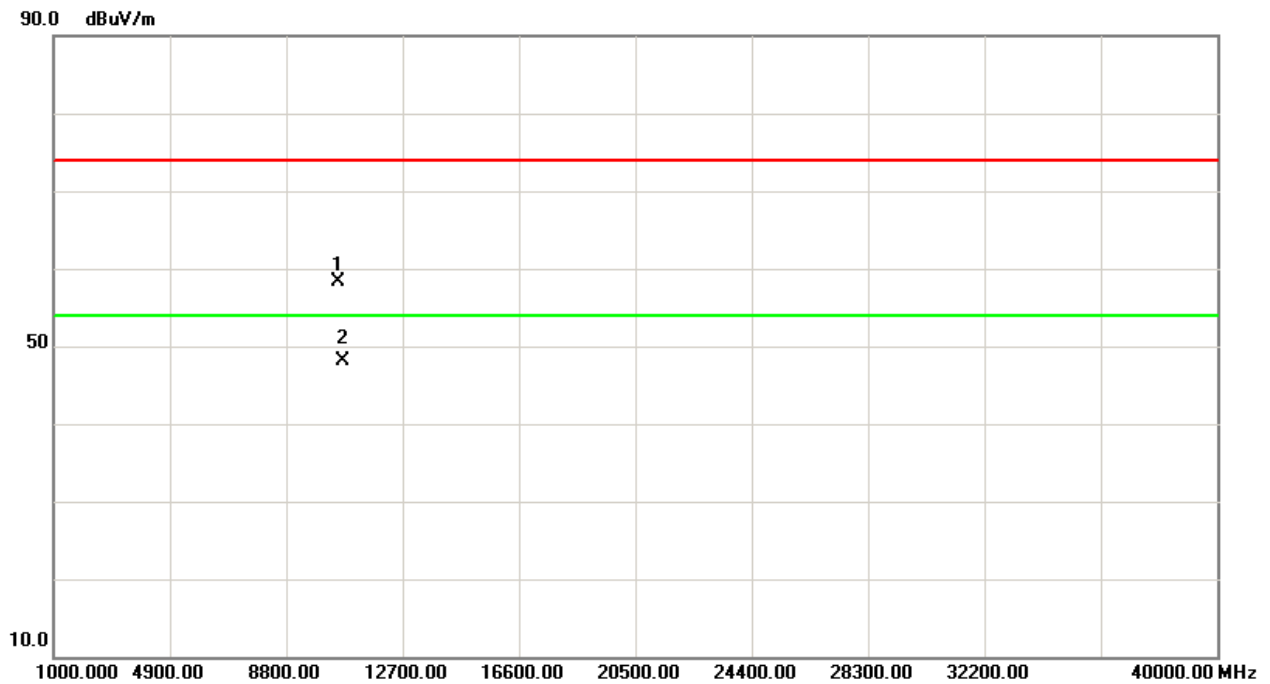
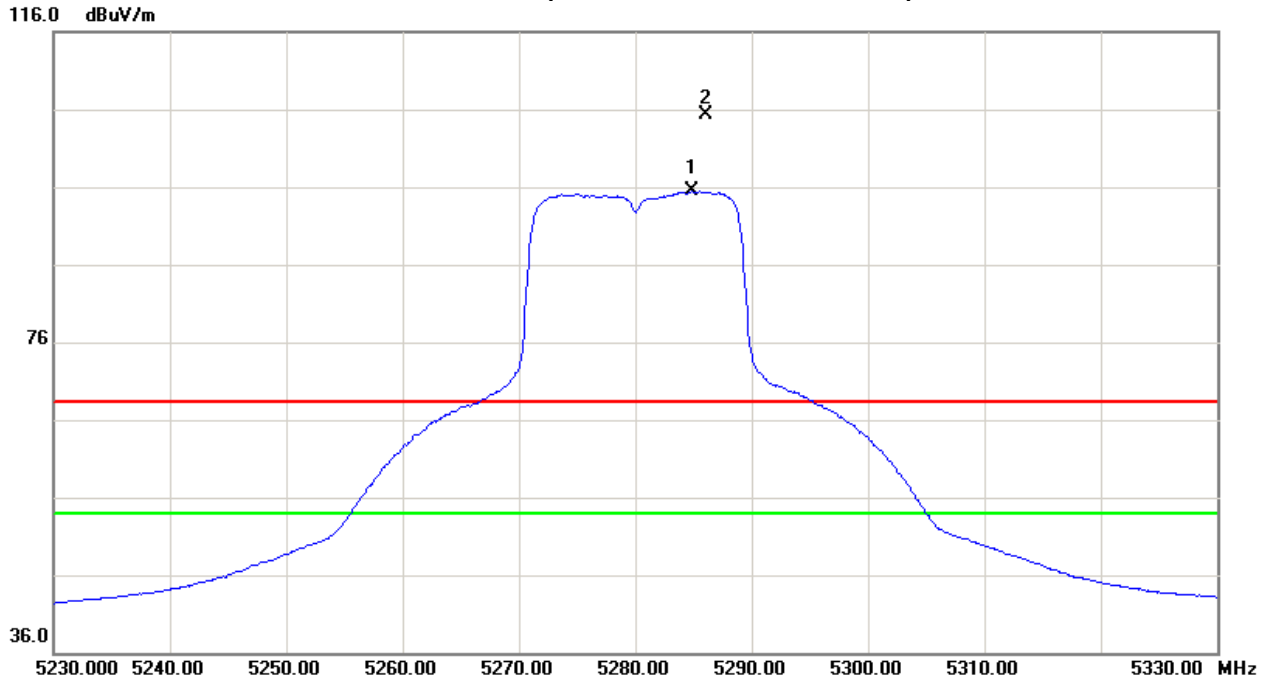


Orthogonal Axis:X  
Band 2/CH52(Above 1000 MHz, Horizontal)



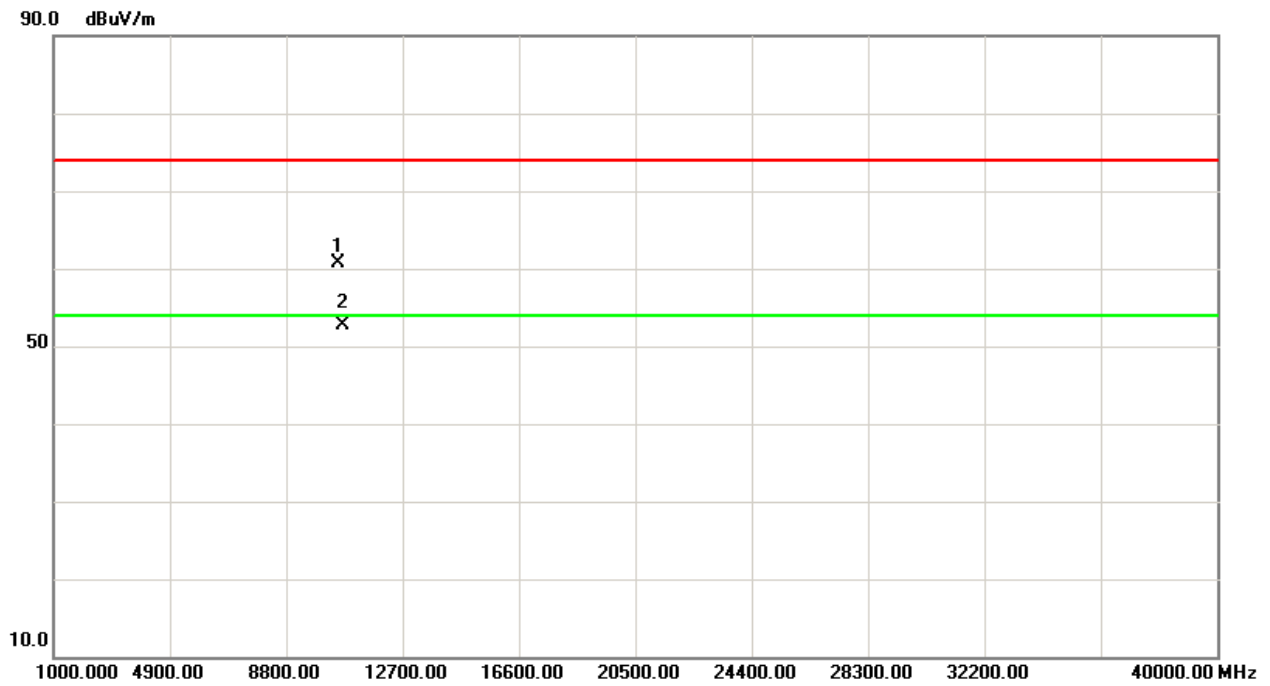
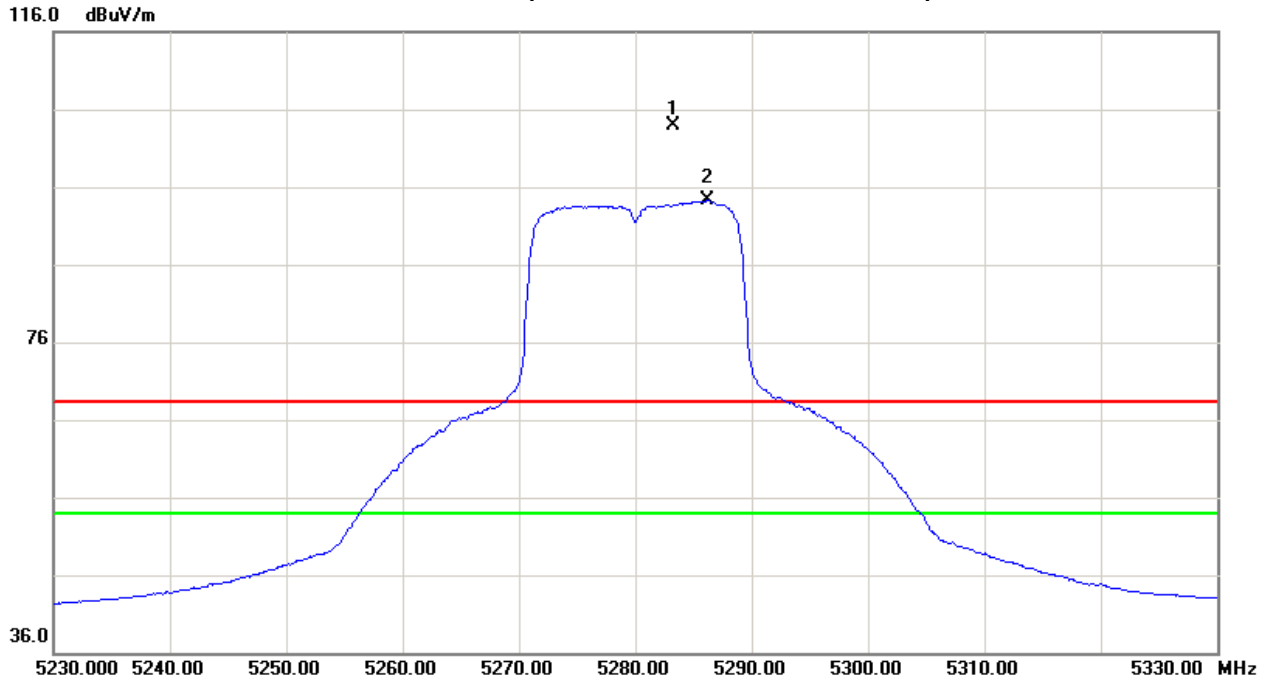


Orthogonal Axis:X  
Band 2/CH56(Above 1000 MHz, Vertical)



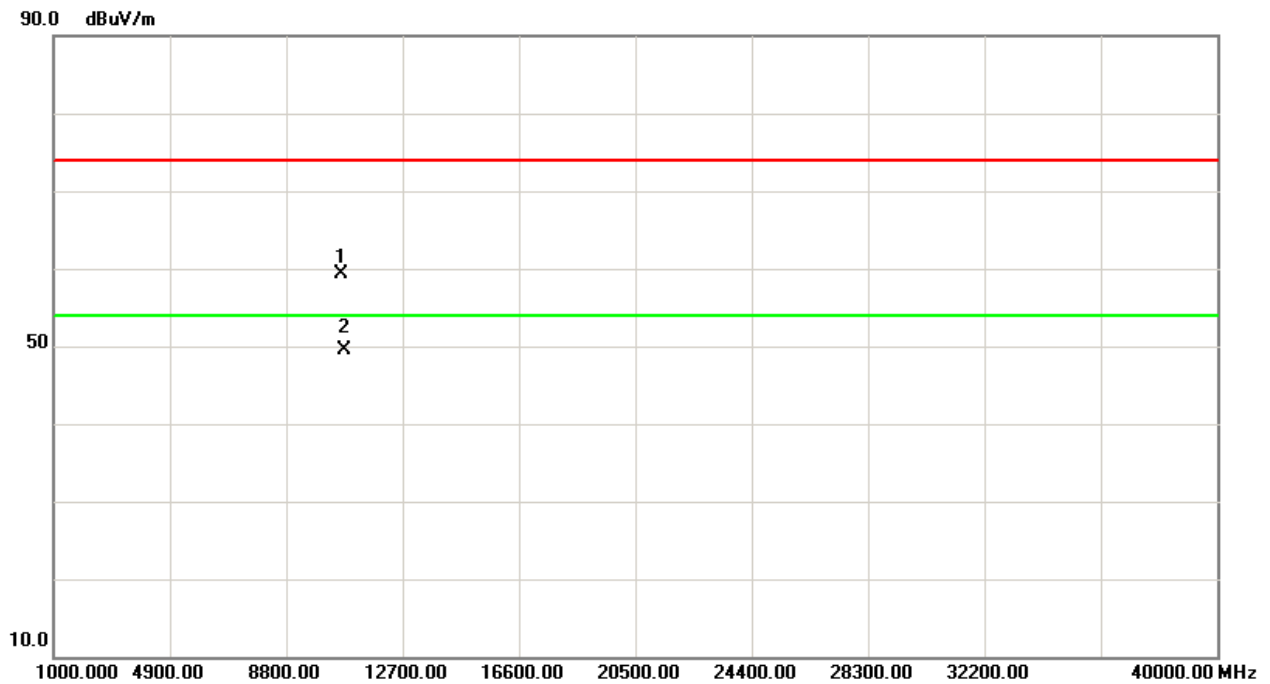
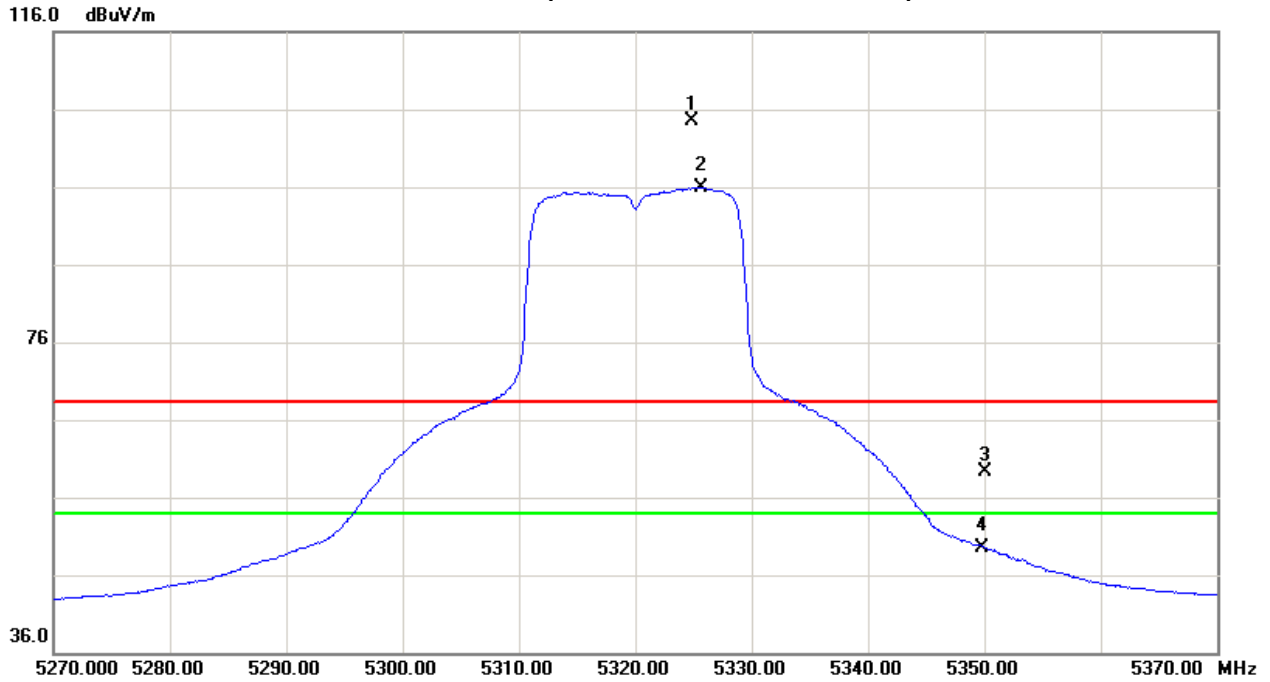


Orthogonal Axis:X  
Band 2/CH56(Above 1000 MHz, Horizontal)



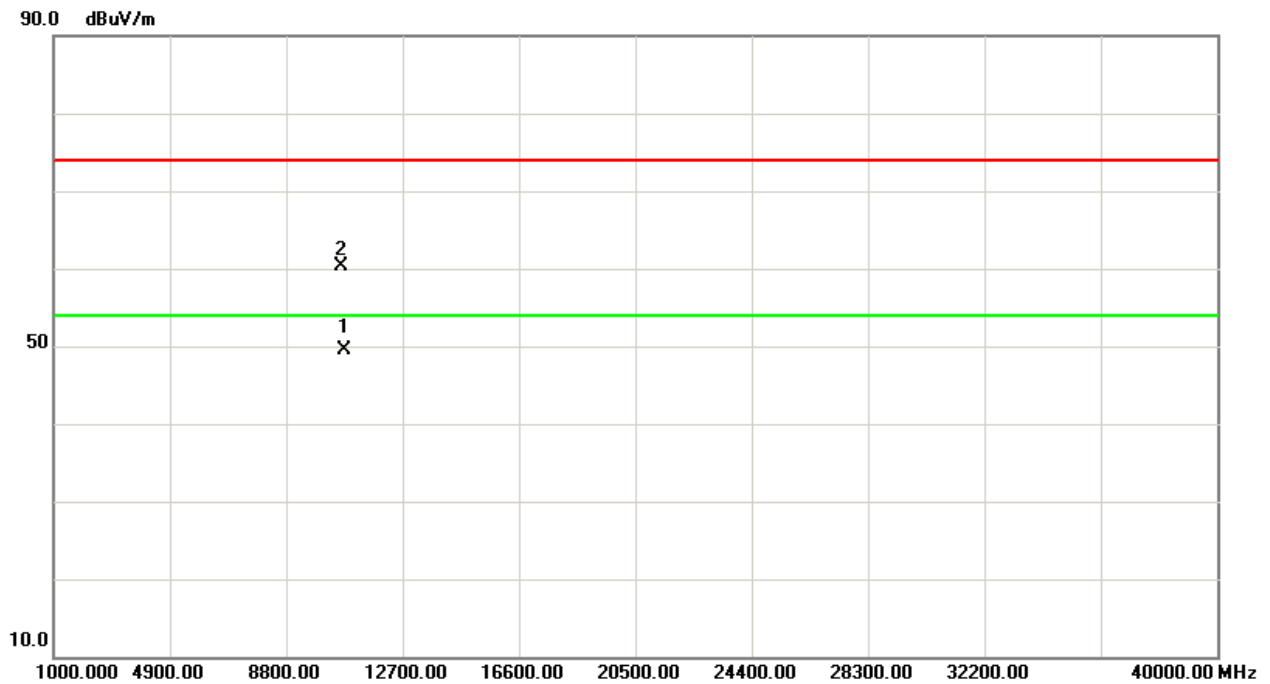
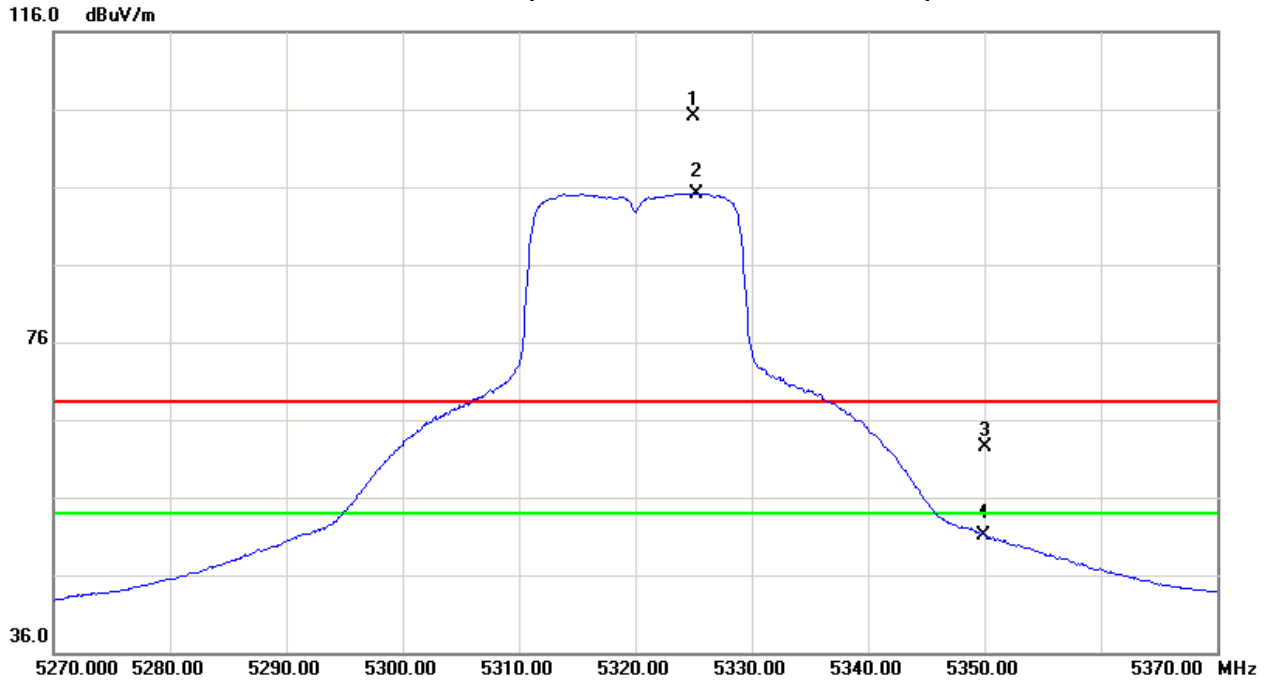


Orthogonal Axis:X  
Band 2/CH64(Above 1000 MHz, Vertical)





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





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	
5263.40	V	56.85	47.88	43.00	99.85	90.88	-4.92	-13.89					X/F
10540.70	V	39.08	29.61	15.93	55.01	45.54	-49.76	-59.23	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	
5282.20	H	57.09	46.96	43.03	100.12	89.99	-4.65	-14.78					X/F
10539.50	H	38.15	29.14	15.94	54.09	45.08	-50.68	-59.69	68.30	54.00	-27.00	-41.30	X/H

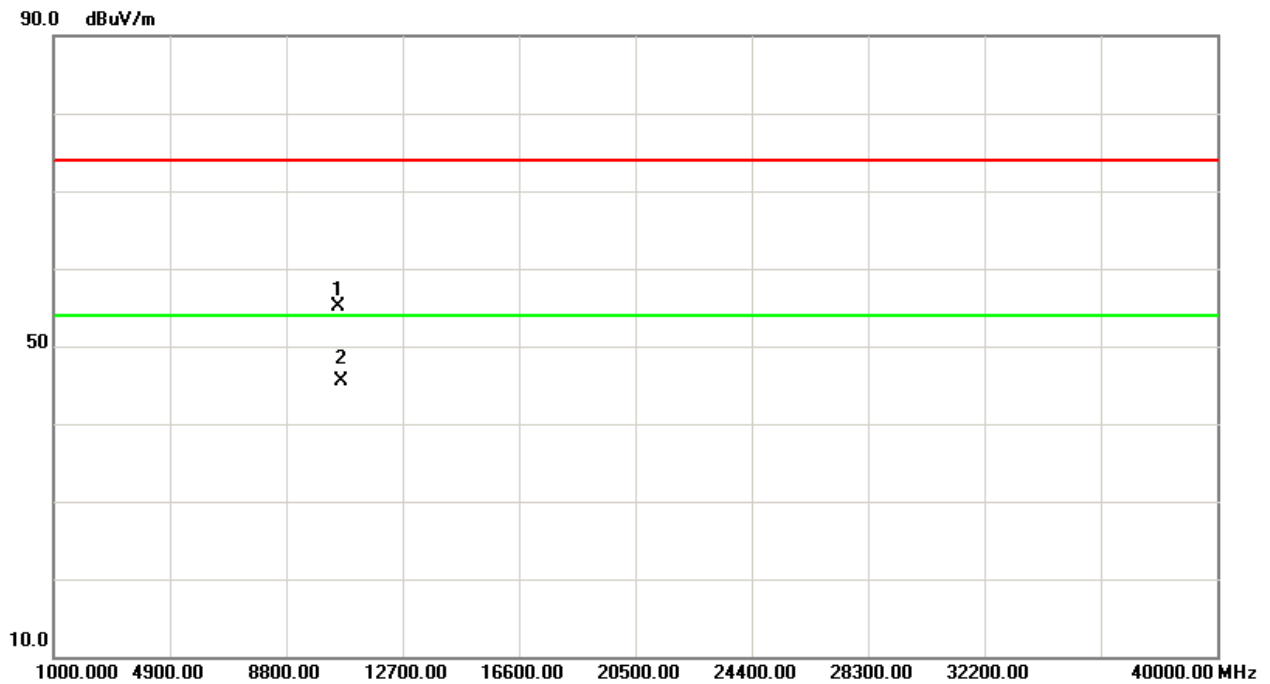
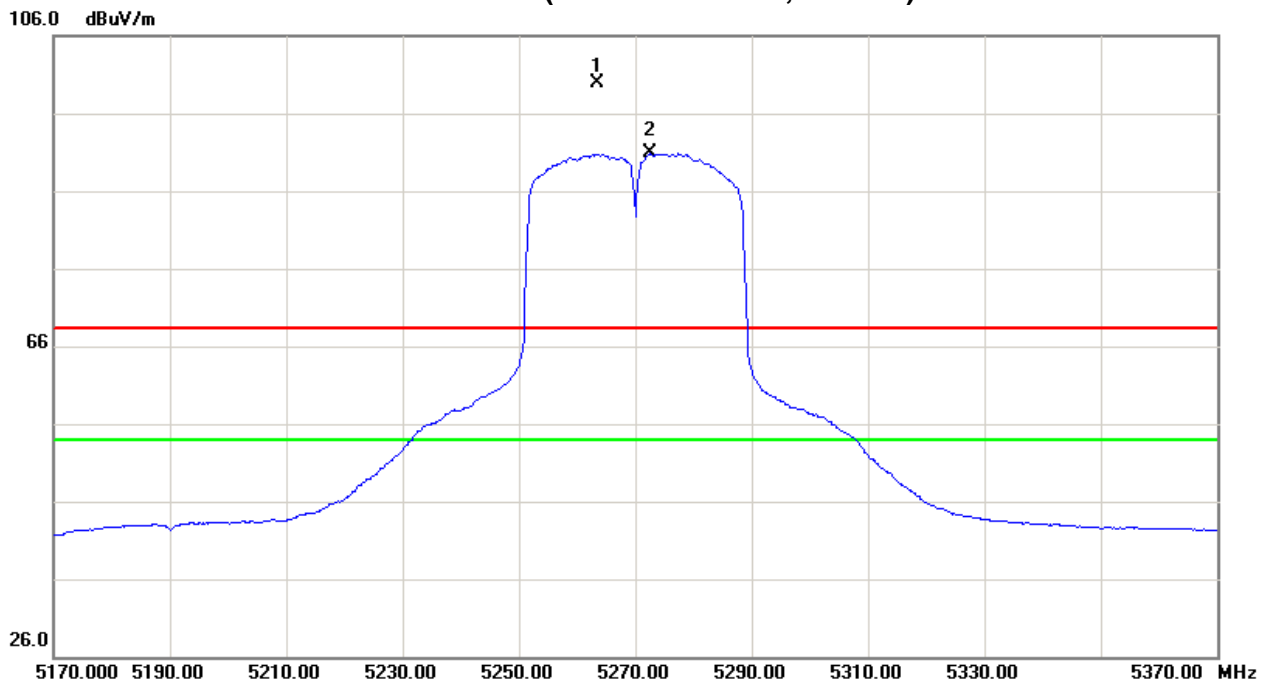
Test Mode : Band 2/ TX N40 Mode 5310MHz

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	
5318.00	V	57.32	48.36	43.10	100.42	91.46	-4.35	-13.31					X/F
5350.00	V	18.77	8.43	43.21	61.98	51.64	-42.79	-53.13	68.30	54.00	-27.00	-41.30	X/E
10619.70	V	39.21	29.03	16.17	55.38	45.20	-49.39	-59.57	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	
5308.20	H	59.02	47.37	43.11	102.13	90.48	-2.64	-14.29					X/F
5350.00	H	21.77	9.38	43.21	64.98	52.59	-39.79	-52.18	68.30	54.00	-27.00	-41.30	X/E
10621.30	H	38.95	29.12	16.16	55.11	45.28	-49.66	-59.49	68.30	54.00	-27.00	-41.30	X/H

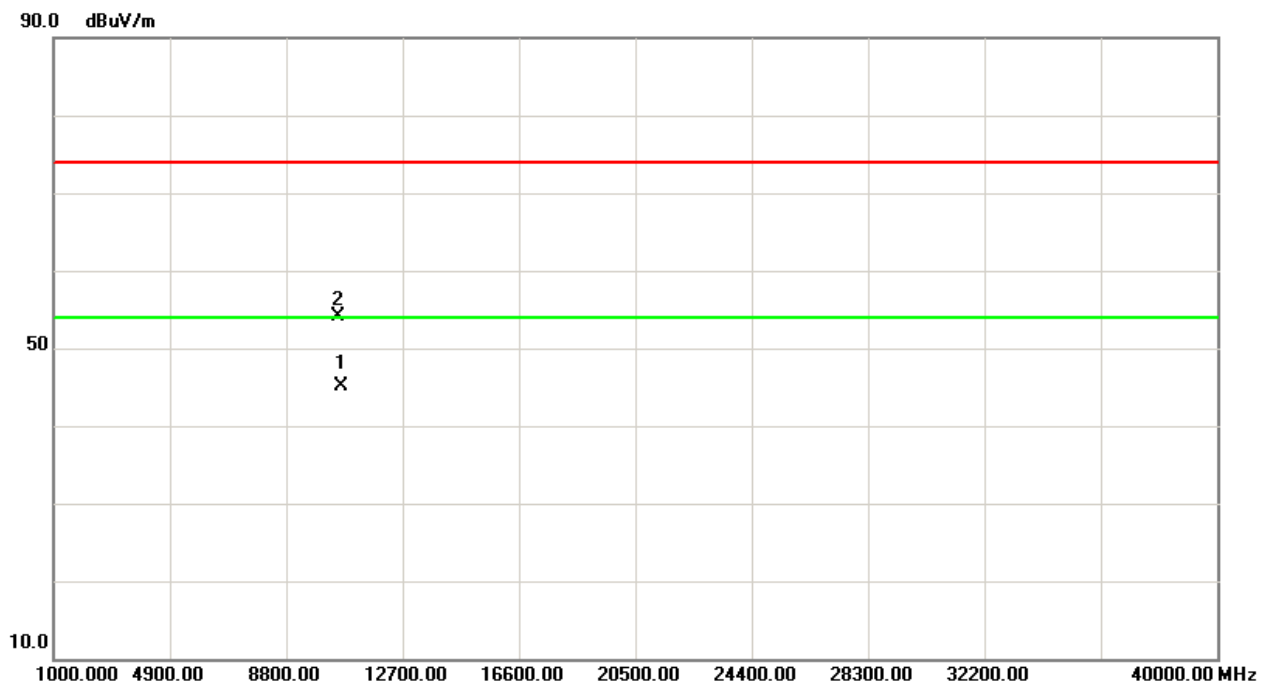
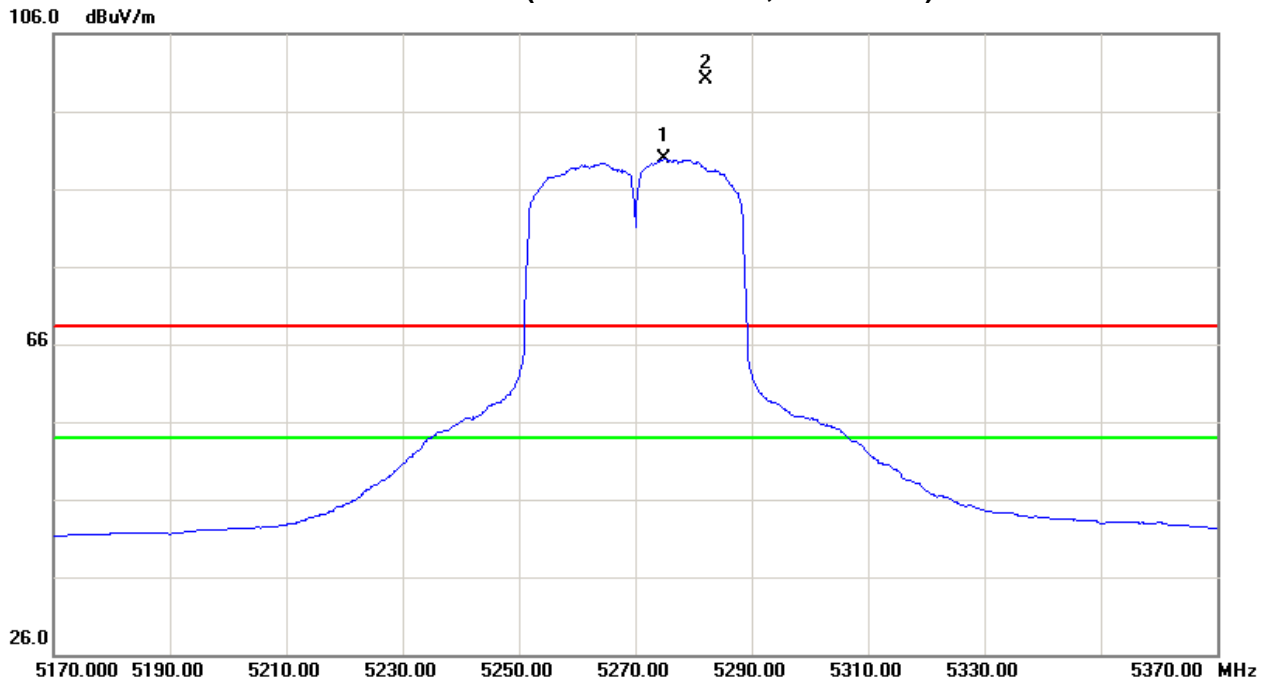


Orthogonal Axis: X  
Band 2/CH54(Above 1000 MHz, Vertical)



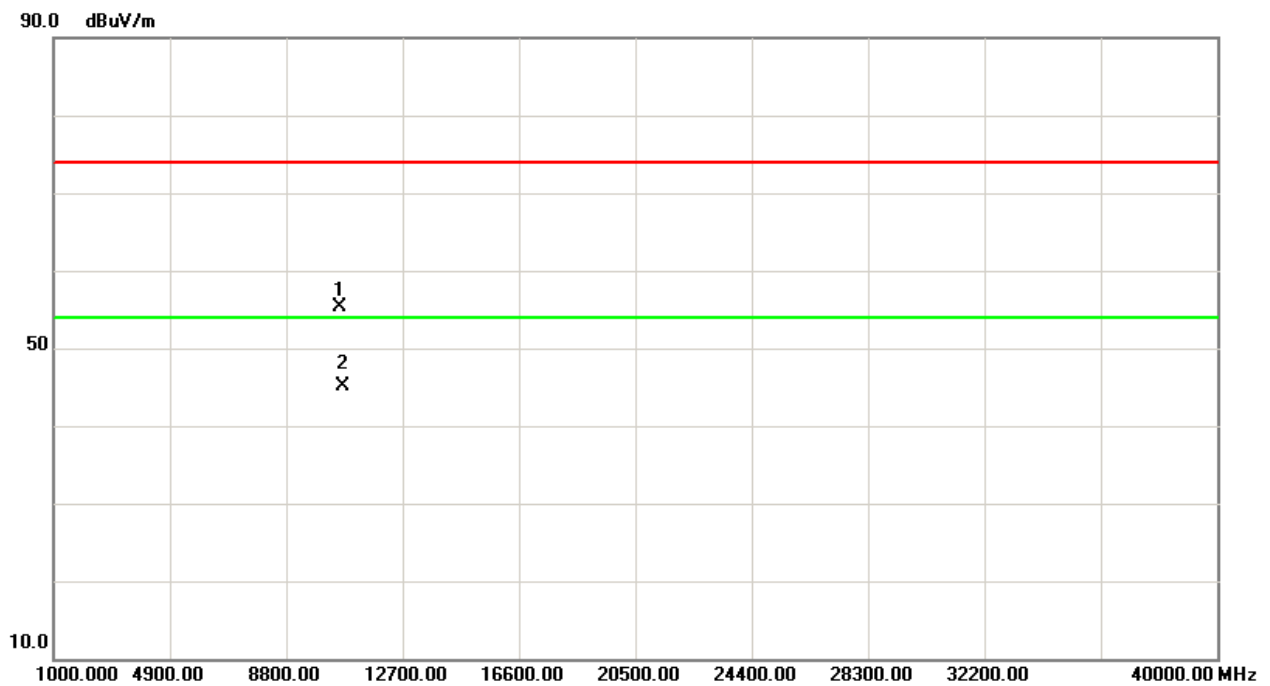
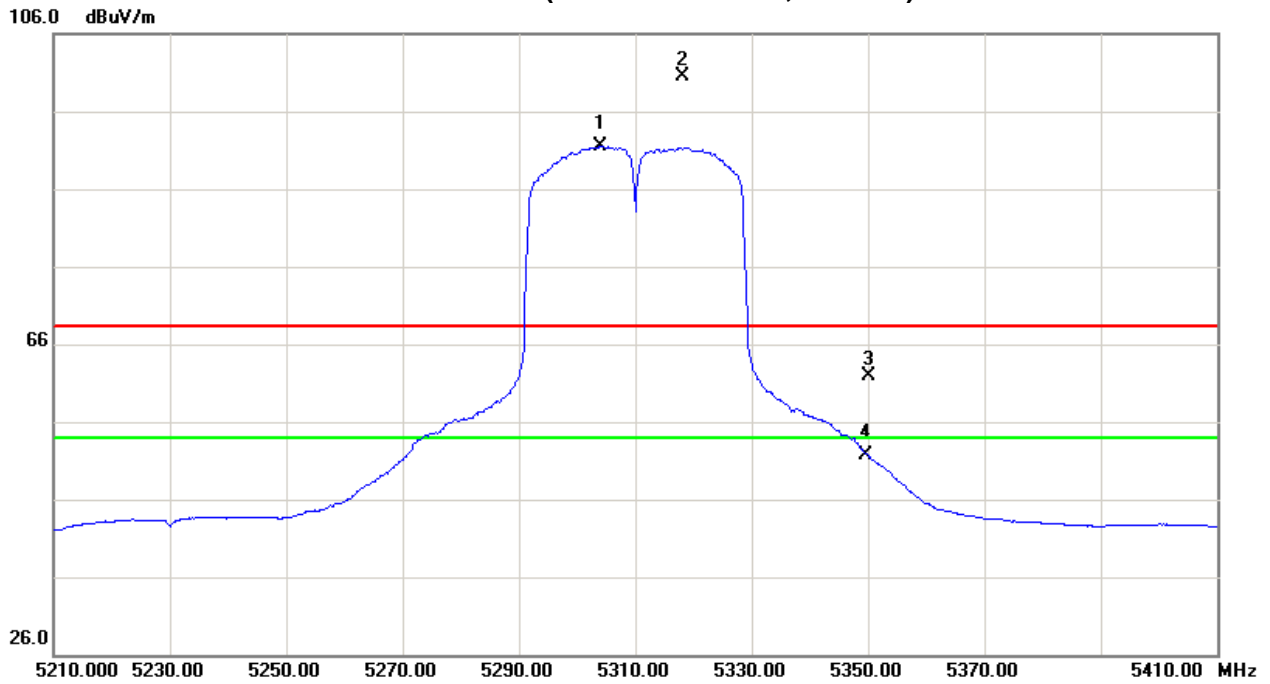


Orthogonal Axis:X  
Band 2/CH54(Above 1000 MHz, Horizontal)



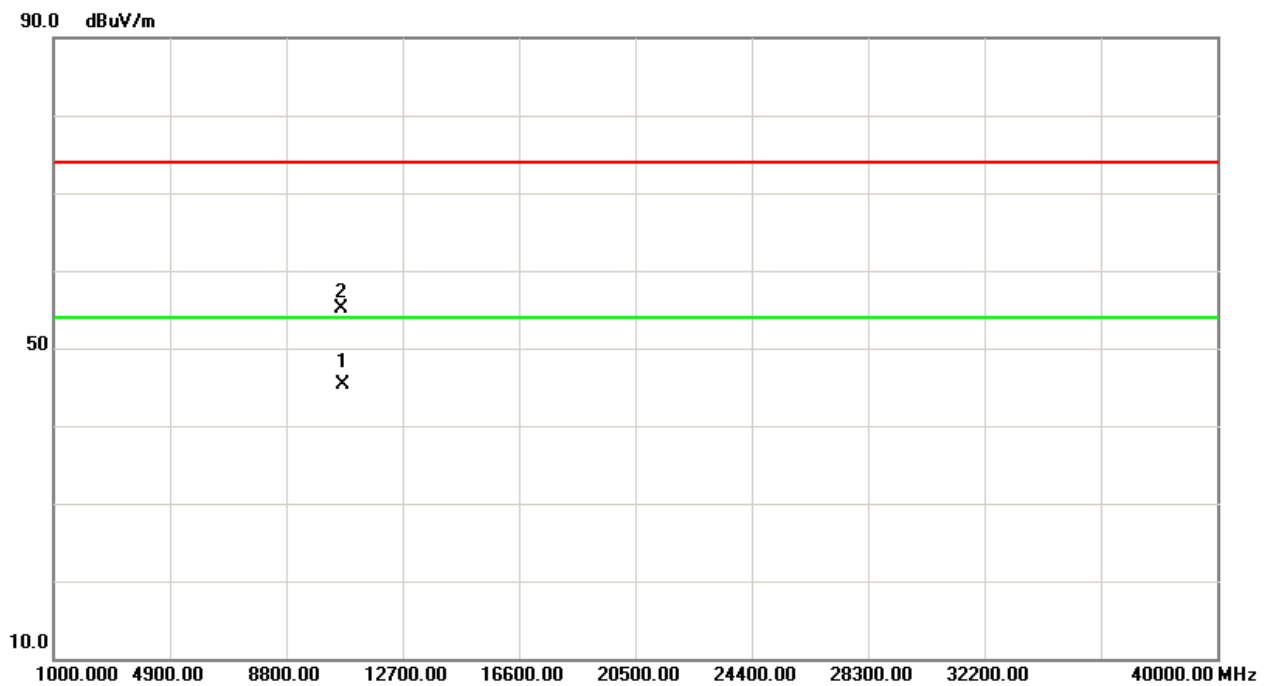
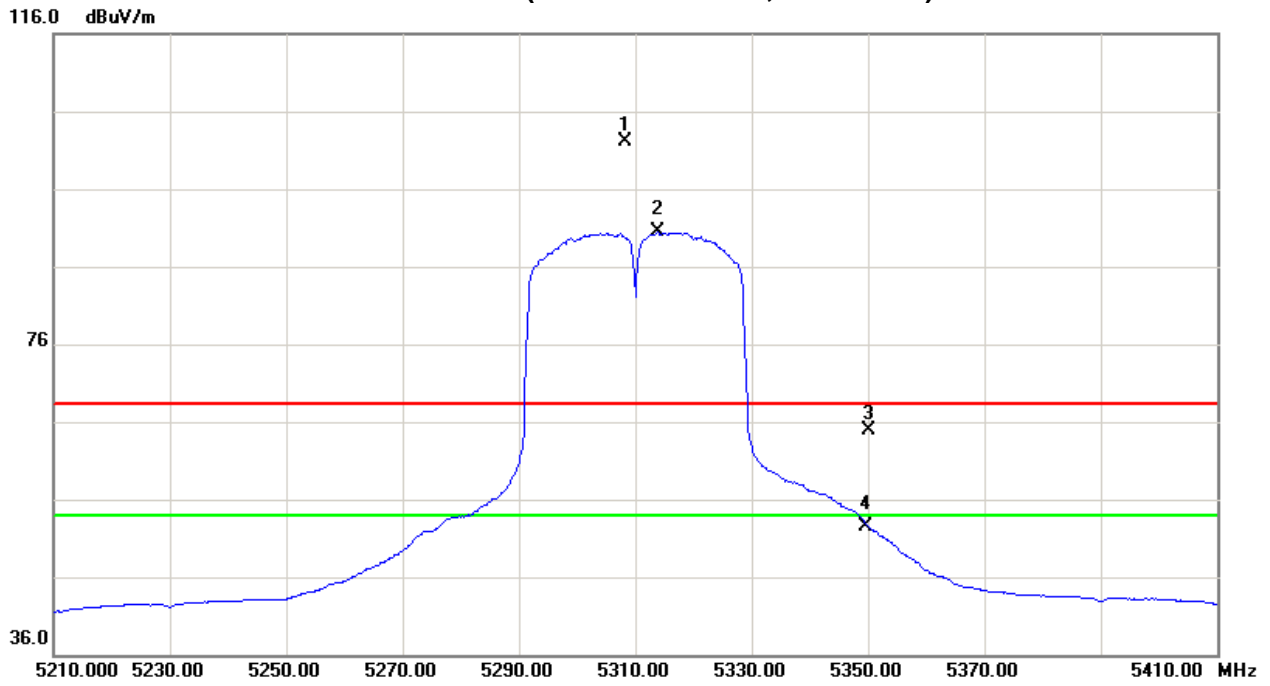


Orthogonal Axis:X  
Band 2/CH62(Above 1000 MHz, Vertical)





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	16.82	4.31	43.49	60.31	47.80	-44.46	-56.97	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	19.84	9.71	43.50	63.34	53.21	-41.43	-51.56	68.30	54.00	-27.00	-41.30	X/E
5503.00	V	62.41	53.33	43.59	106.00	96.92	1.23	-7.85					X/F
10999.80	V	39.12	28.23	17.26	56.38	45.49	-48.39	-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	
5460.00	H	16.62	4.04	43.49	60.11	47.53	-44.66	-57.24	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	22.72	9.18	43.50	66.22	52.68	-38.55	-52.09	68.30	54.00	-27.00	-41.30	X/E
5503.00	H	62.17	53.43	43.59	105.76	97.02	0.99	-7.75					X/F
11000.30	H	40.24	30.08	17.26	57.50	47.34	-47.27	-57.43	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	
5584.90	V	62.36	53.31	43.88	106.24	97.19	1.47	-7.58					X/F
11162.30	V	40.71	30.12	17.66	58.37	47.78	-46.40	-56.99	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	
5574.30	H	64.09	54.76	43.83	107.92	98.59	3.15	-6.18					X/F
11161.20	H	41.82	31.67	17.65	59.47	49.32	-45.30	-55.45	68.30	54.00	-27.00	-41.30	X/H

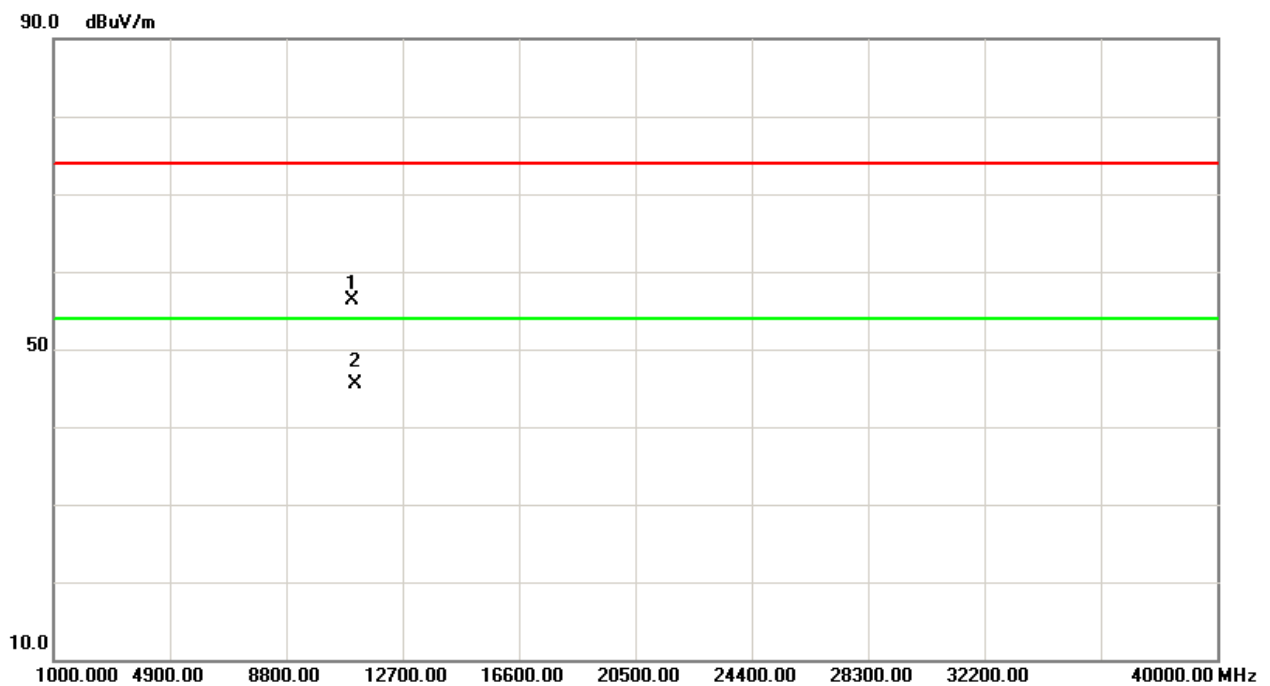
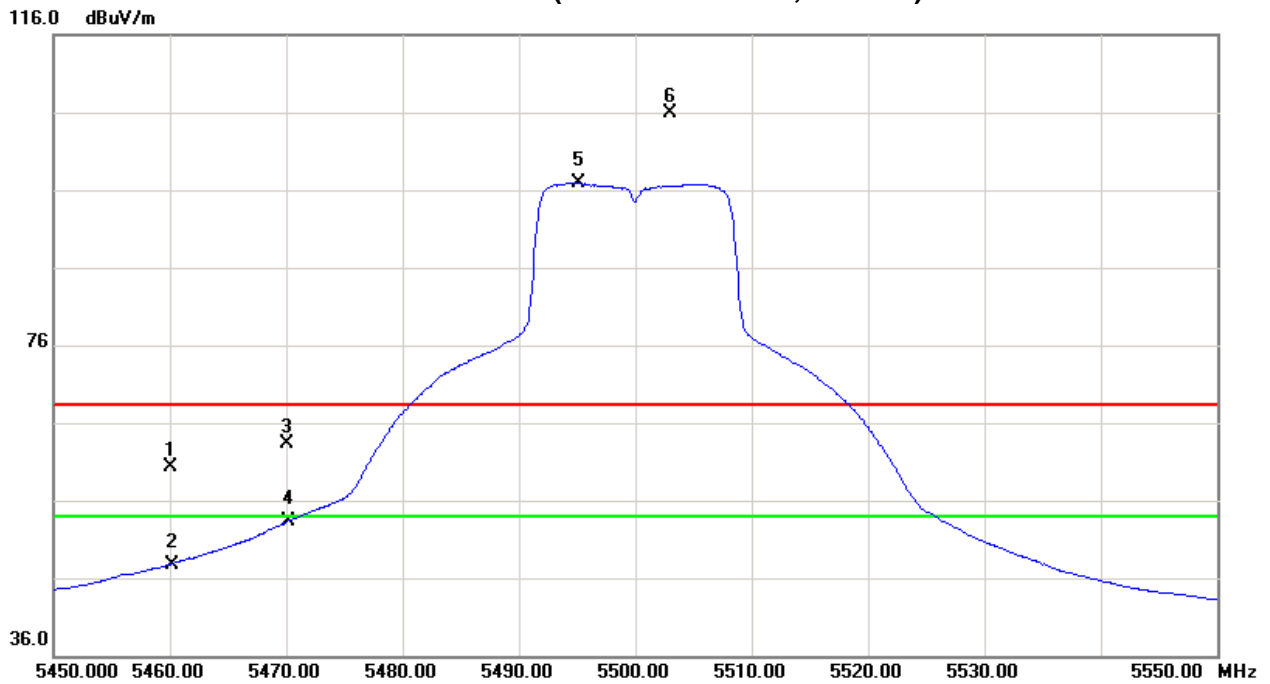
Test Mode : Band 3/ TX A Mode 5700MHz

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	
5698.20	V	57.53	48.96	44.25	101.78	93.21	-2.99	-11.56					X/F
5725.00	V	16.93	5.30	44.34	61.27	49.64	-43.50	-55.13	68.30	54.00	-27.00	-41.30	X/E
11401.30	V	38.91	29.34	18.25	57.16	47.59	-47.61	-57.18	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	
5702.10	H	60.36	52.52	44.27	104.63	96.79	-0.14	-7.98					X/F
5725.00	H	18.04	8.30	44.34	62.38	52.64	-42.39	-52.13	68.30	54.00	-27.00	-41.30	X/E
11399.10	H	40.12	30.26	18.24	58.36	48.50	-46.41	-56.27	68.30	54.00	-27.00	-41.30	X/H

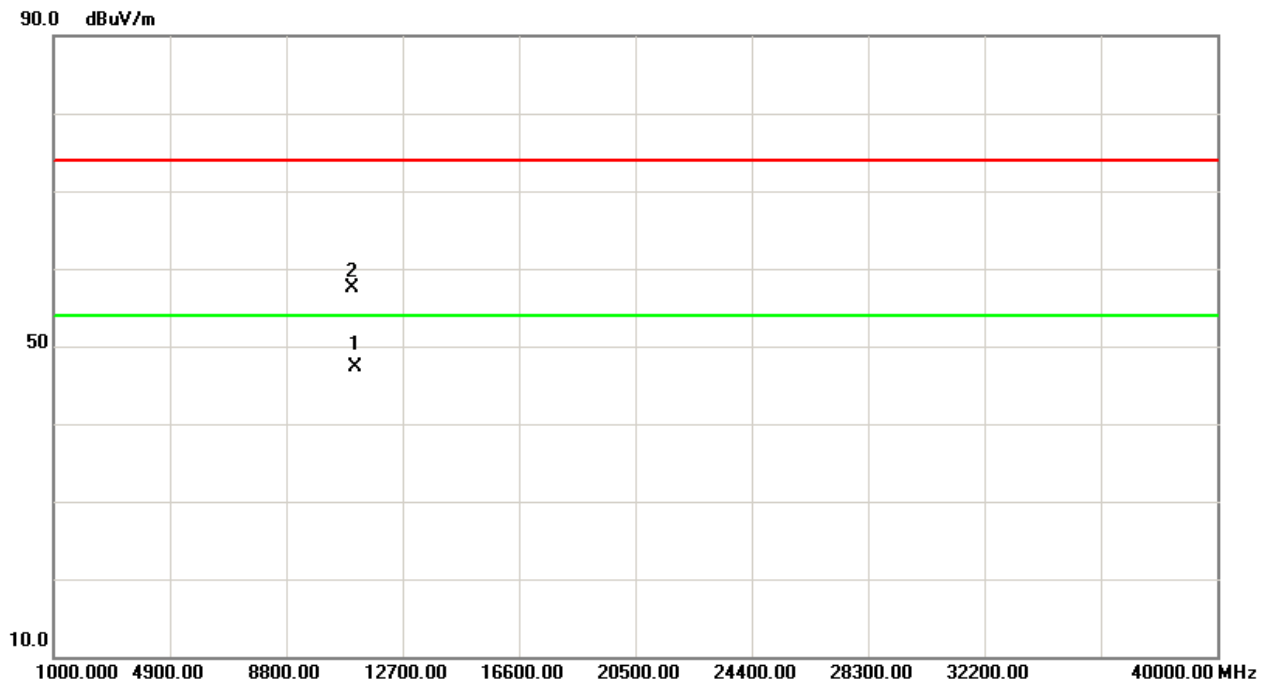
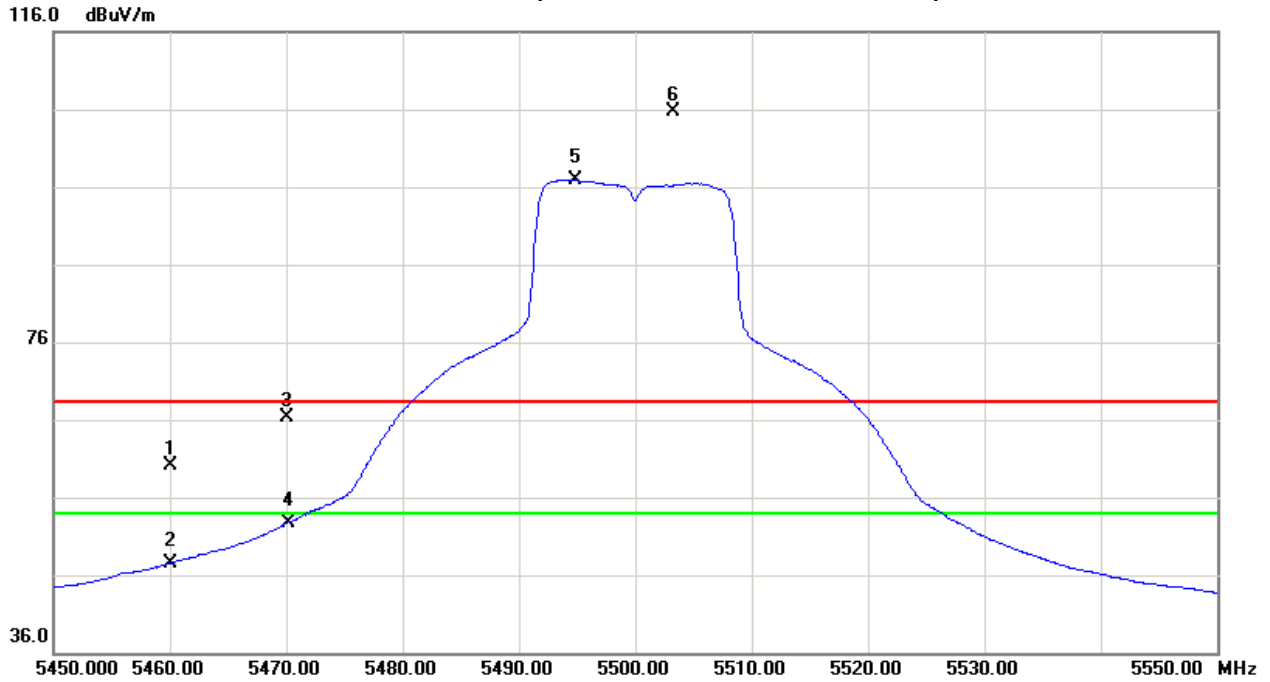


Orthogonal Axis: X  
Band 3/CH100(Above 1000 MHz, Vertical)



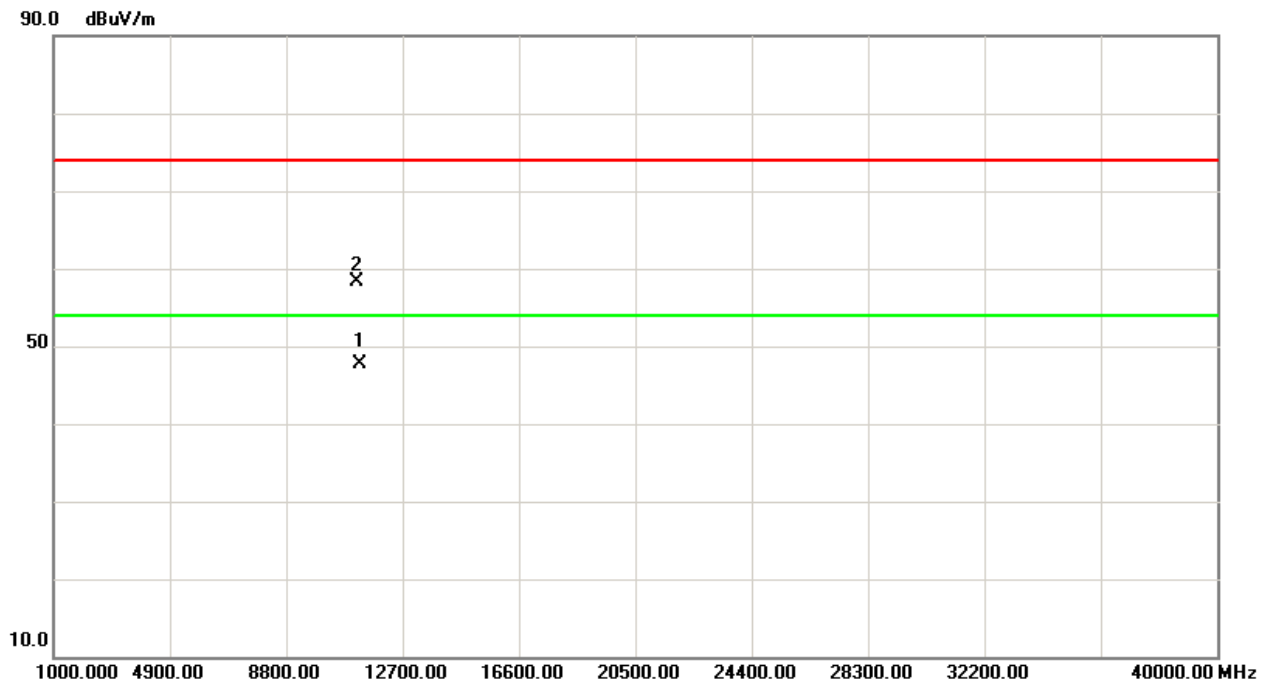
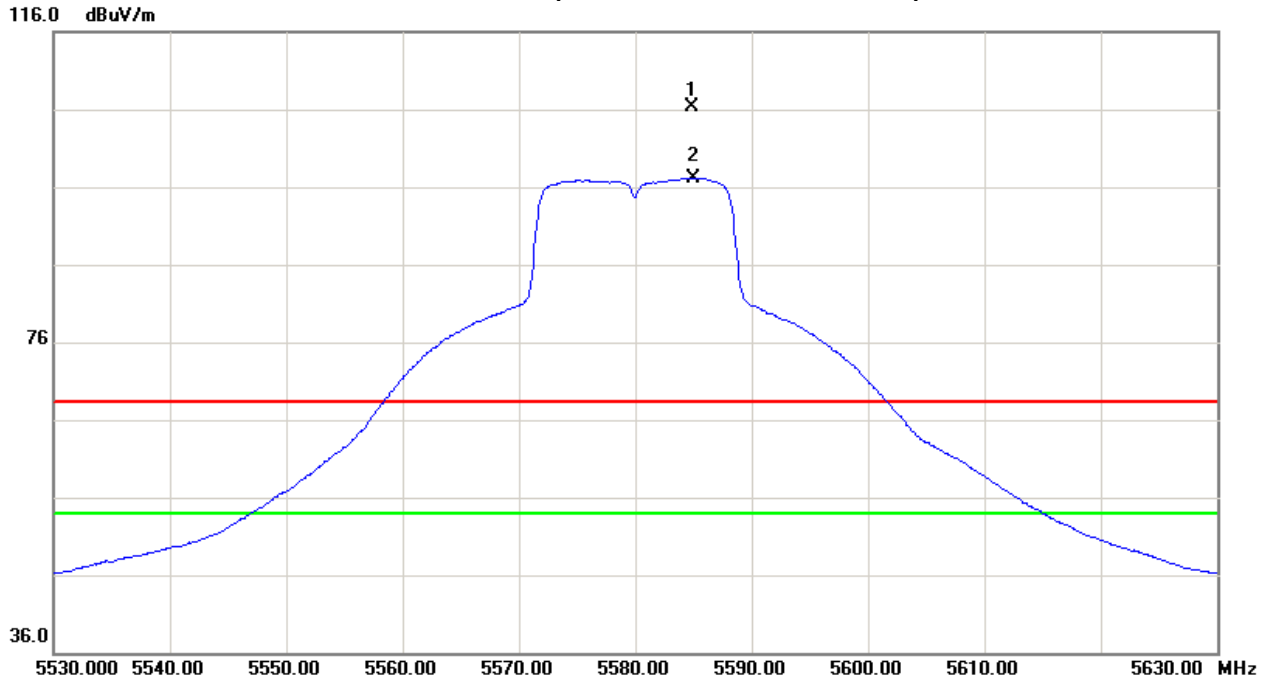


Orthogonal Axis:X  
Band 3/CH100(Above 1000 MHz, Horizontal)



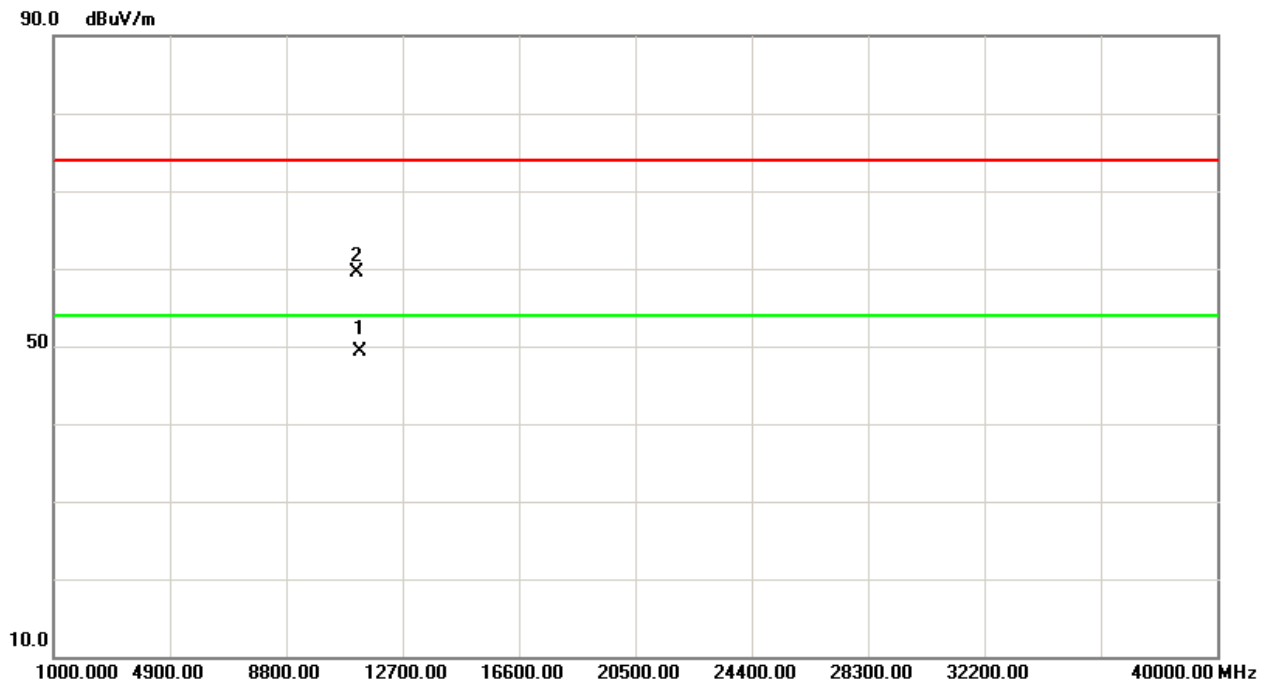
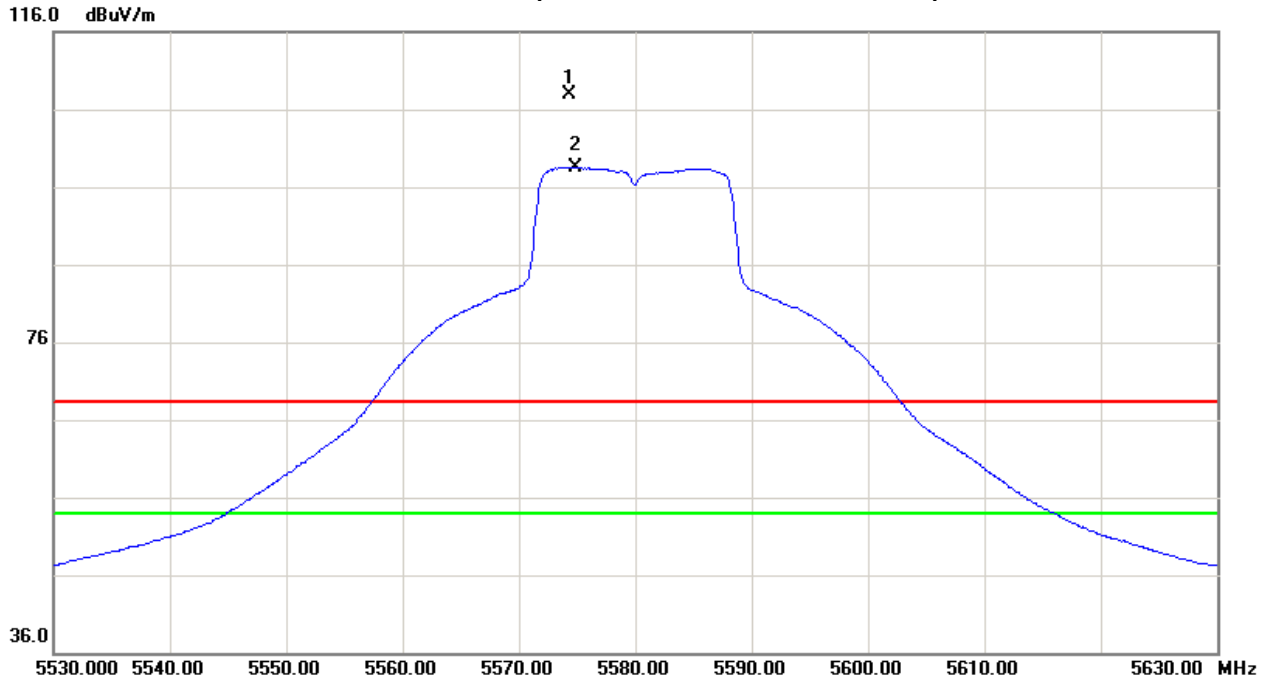


Orthogonal Axis:X  
Band 3/CH116(Above 1000 MHz, Vertical)



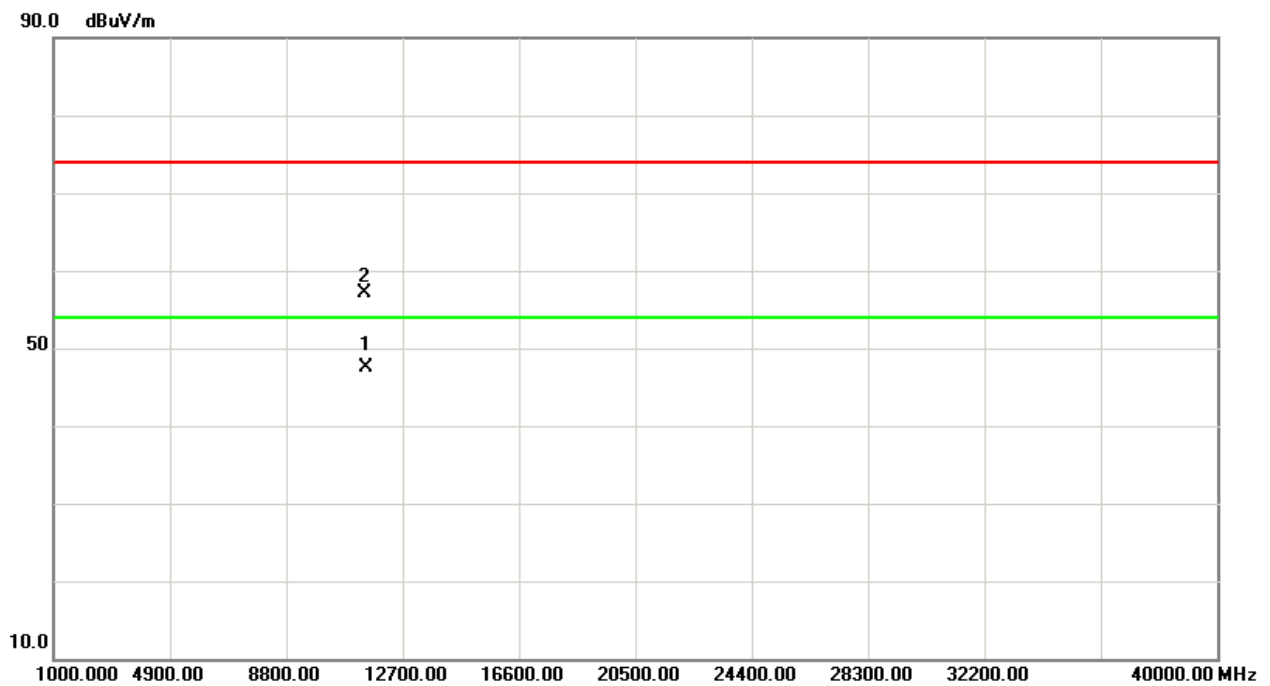
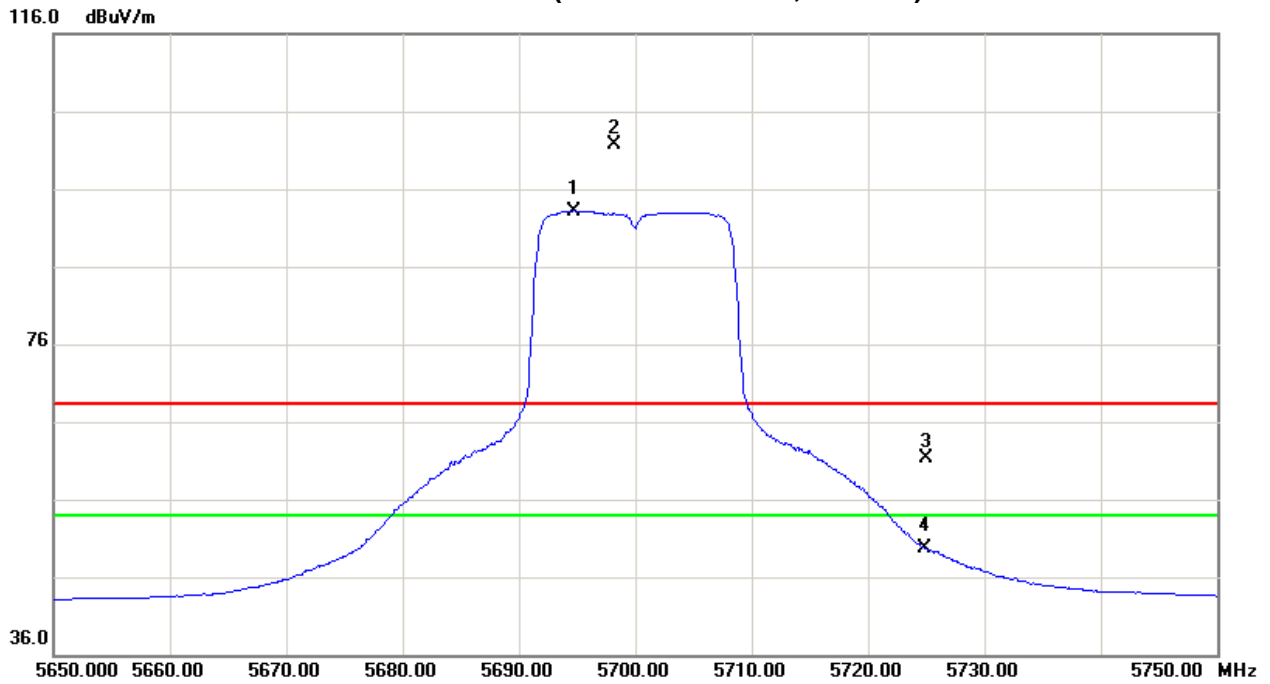


Orthogonal Axis: X  
Band 3/CH116(Above 1000 MHz, Horizontal)



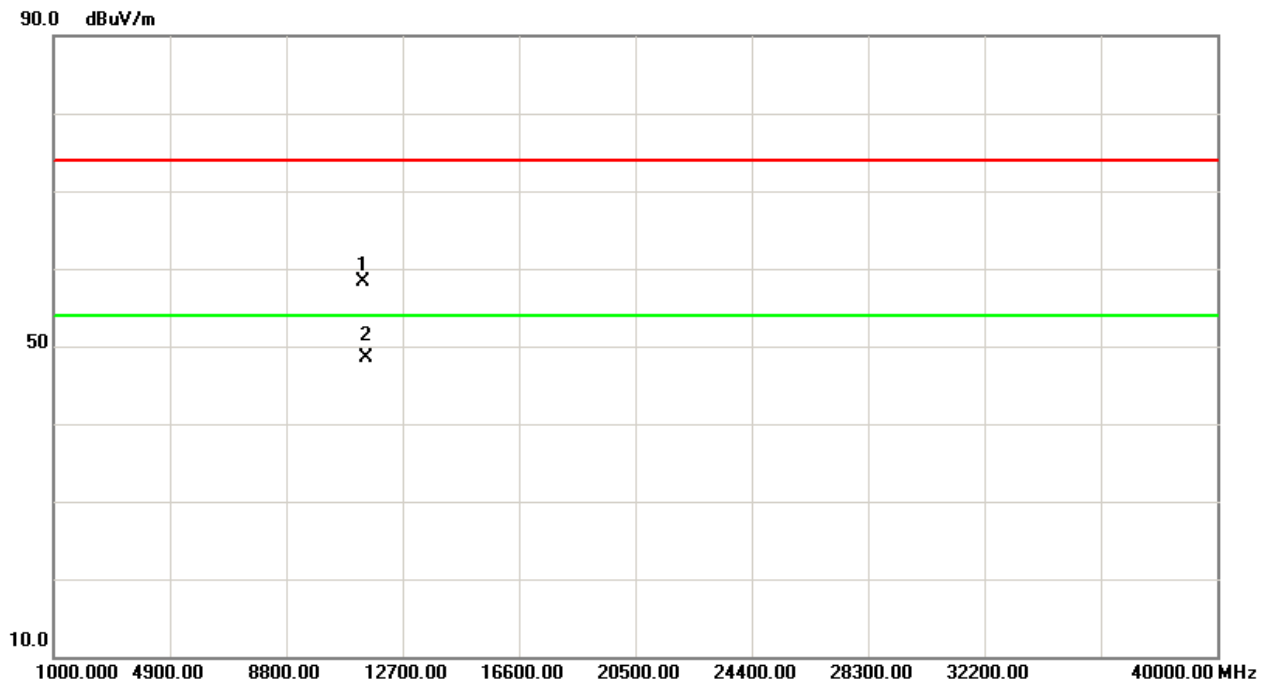
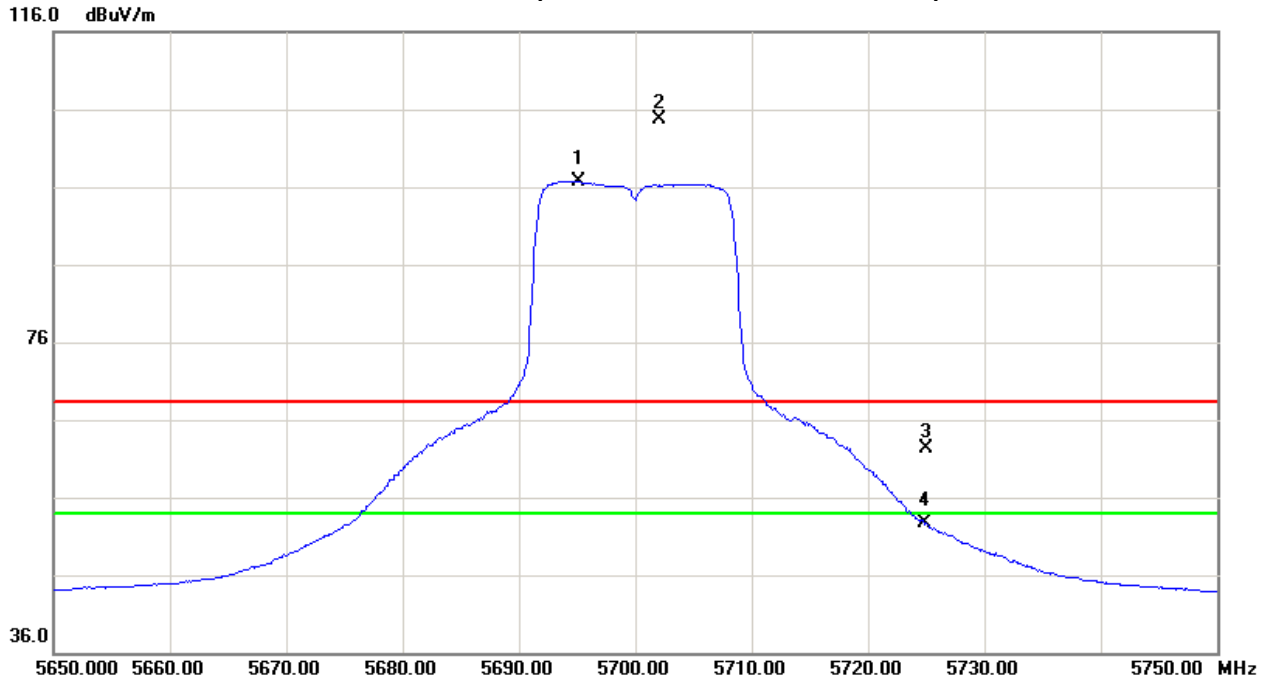


Orthogonal Axis: X  
Band 3/CH140(Above 1000 MHz, Vertical)





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





Test Mode : Band 3/ TX 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	16.76	4.09	43.49	60.25	47.58	-44.52	-57.19	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	19.20	9.52	43.50	62.70	53.02	-42.07	-51.75	68.30	54.00	-27.00	-41.30	X/E
5506.60	V	64.59	54.40	43.60	108.19	98.00	3.42	-6.77					X/F
10999.70	V	38.78	28.94	17.26	56.04	46.20	-48.73	-58.57	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	14.59	2.96	43.49	58.08	46.45	-46.69	-58.32	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	19.47	7.58	43.50	62.97	51.08	-41.80	-53.69	68.30	54.00	-27.00	-41.30	X/E
5497.20	H	61.79	52.27	43.58	105.37	95.85	0.60	-8.92					X/F
11000.40	H	40.08	30.21	17.26	57.34	47.47	-47.43	-57.30	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	
5575.40	V	63.99	54.31	43.84	107.83	98.15	3.06	-6.62					X/F
11160.30	V	41.61	31.12	17.65	59.26	48.77	-45.51	-56.00	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	
5573.30	H	62.51	52.72	43.83	106.34	96.55	1.57	-8.22					X/F
11161.60	H	40.84	30.31	17.66	58.50	47.97	-46.27	-56.80	68.30	54.00	-27.00	-41.30	X/H

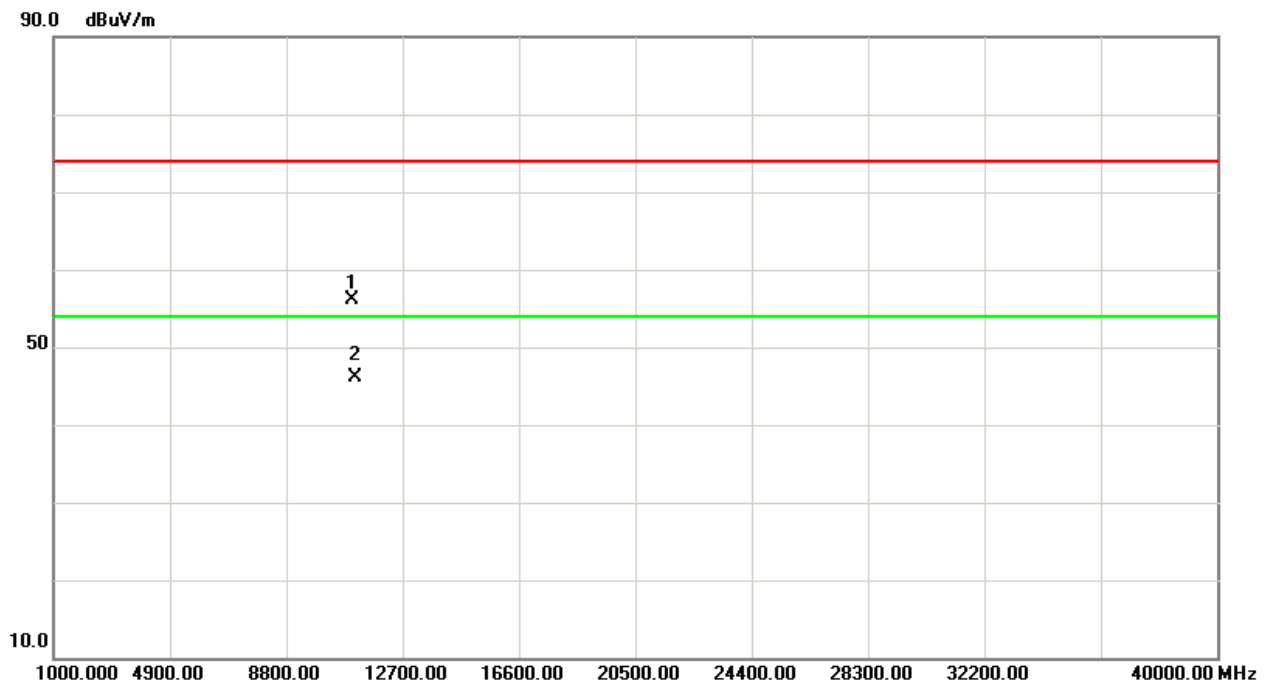
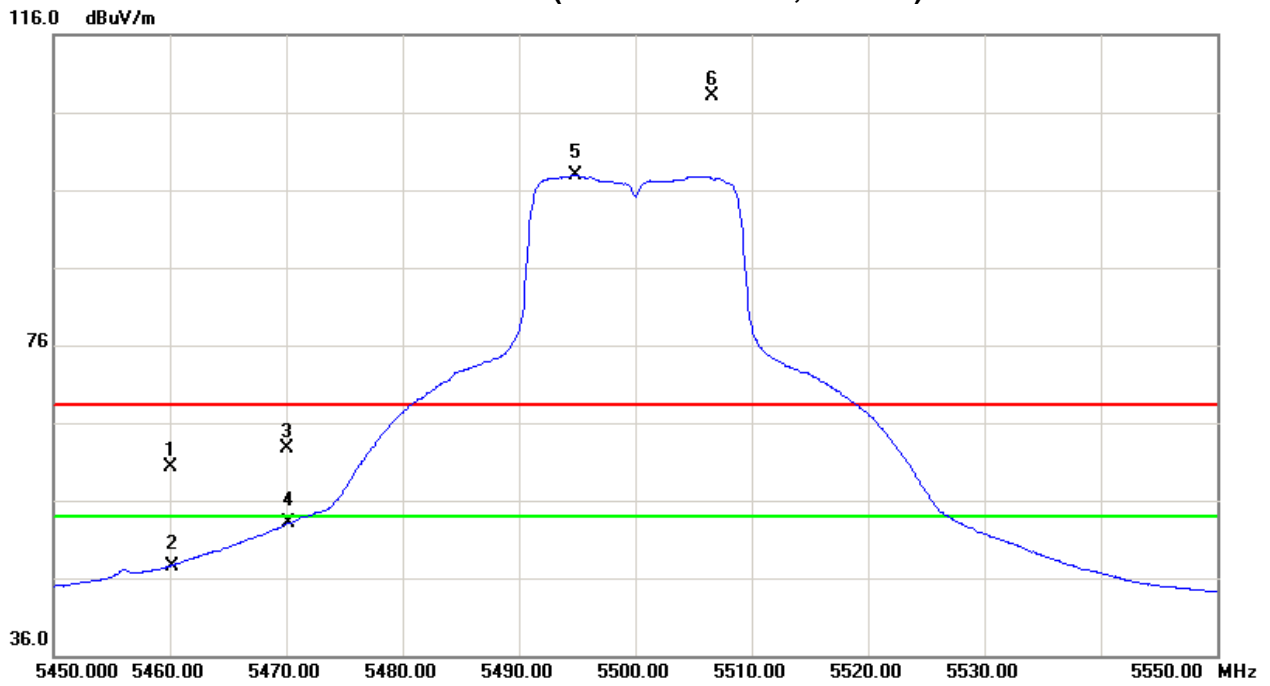
Test Mode : Band 3/ TX N20 Mode 5700MHz

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	
5695.50	V	60.69	51.13	44.25	104.94	95.38	0.17	-9.39					X/F
5725.00	V	15.16	7.65	44.34	59.50	51.99	-45.27	-52.78	68.30	54.00	-27.00	-41.30	X/E
11399.10	V	40.52	30.19	18.24	58.76	48.43	-46.01	-56.34	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	
5703.50	H	60.91	50.94	44.28	105.19	95.22	0.42	-9.55					X/F
5725.00	H	17.09	8.34	44.34	61.43	52.68	-43.34	-52.09	68.30	54.00	-27.00	-41.30	X/E
11400.30	H	40.46	30.58	18.24	58.70	48.82	-46.07	-55.95	68.30	54.00	-27.00	-41.30	X/H

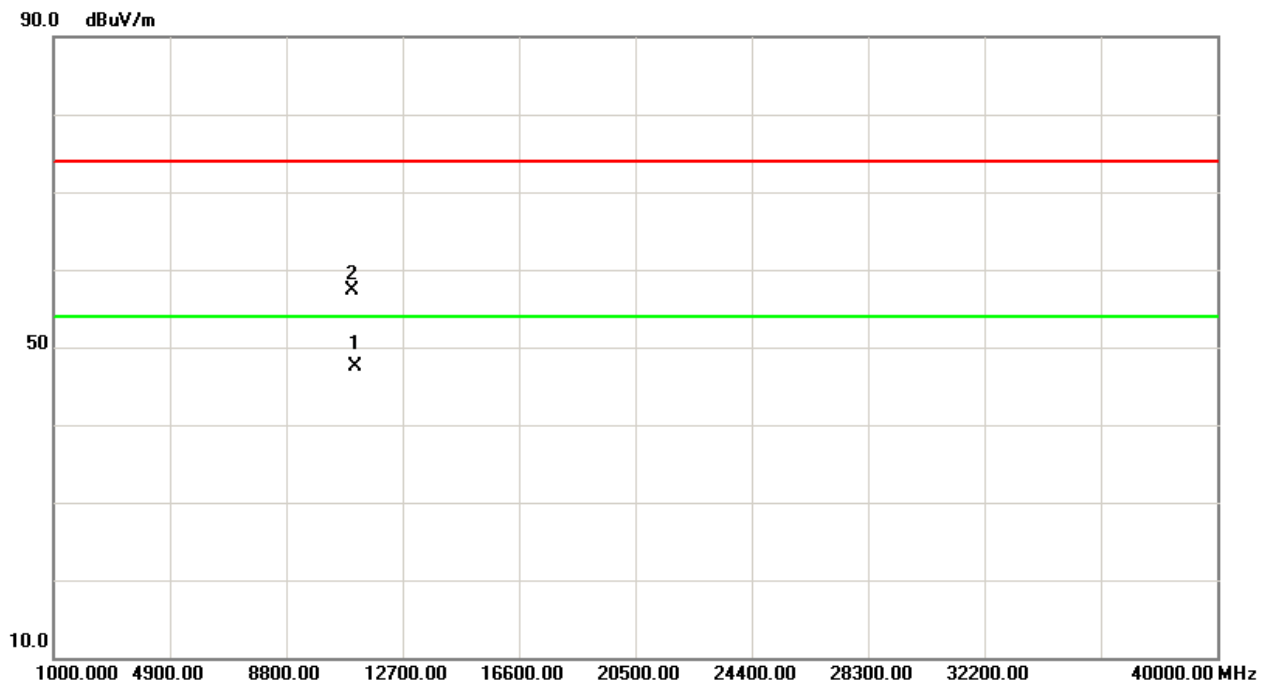
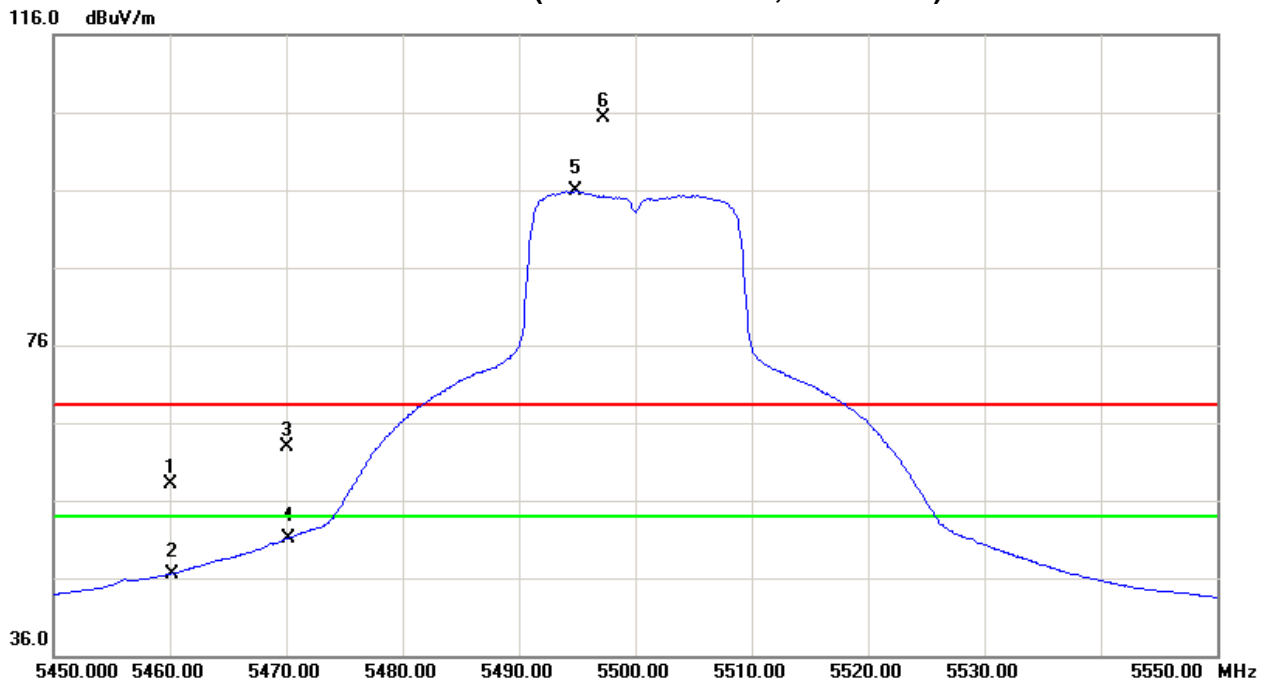


Orthogonal Axis: X  
Band 3/CH100(Above 1000 MHz, Vertical)



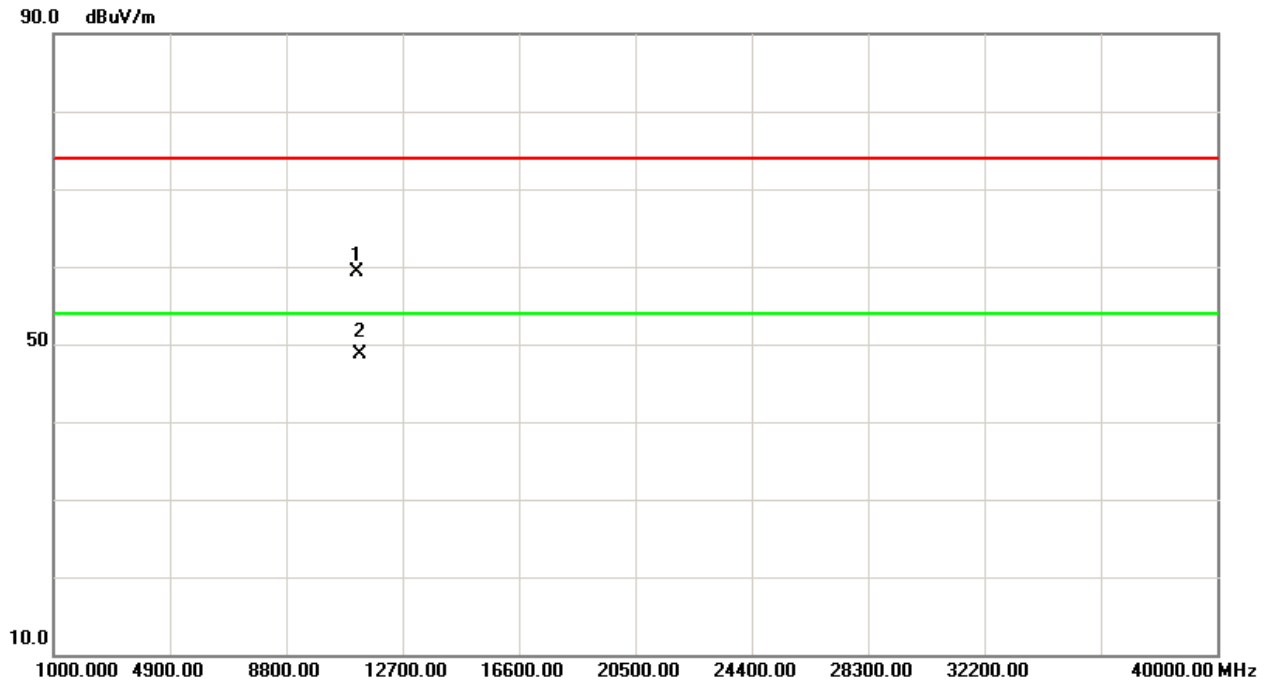
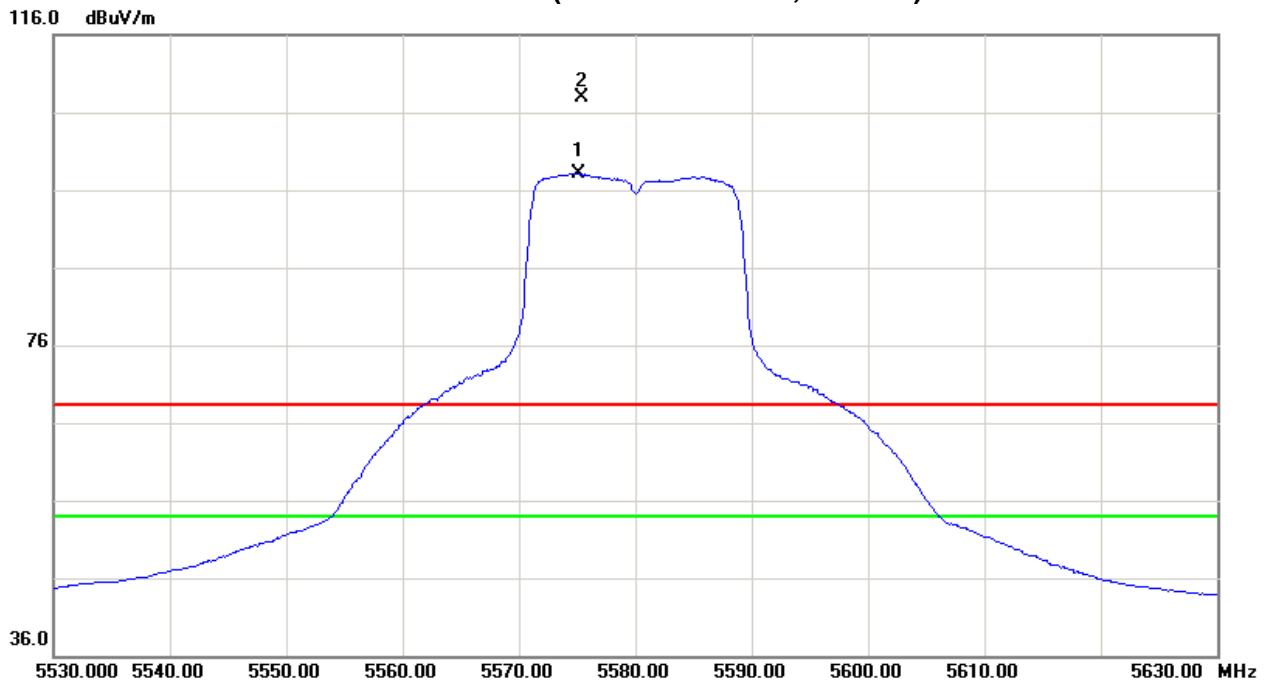


Orthogonal Axis:X  
Band 3/CH100(Above 1000 MHz, Horizontal)



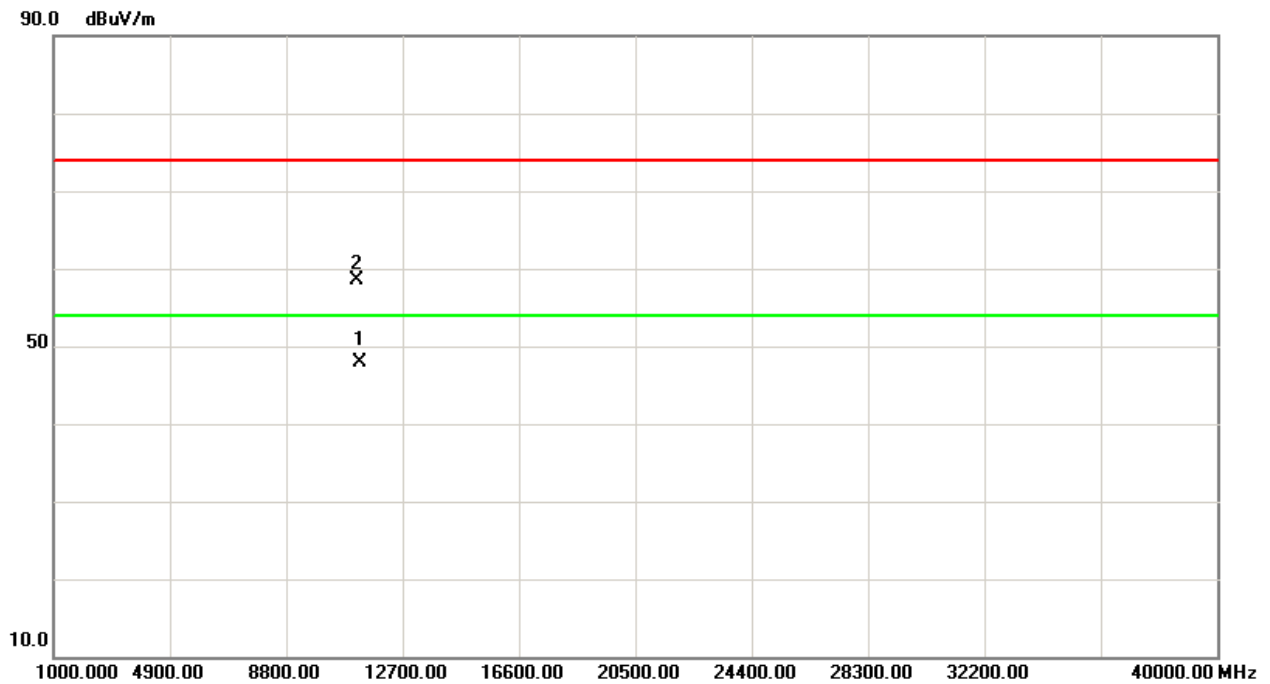
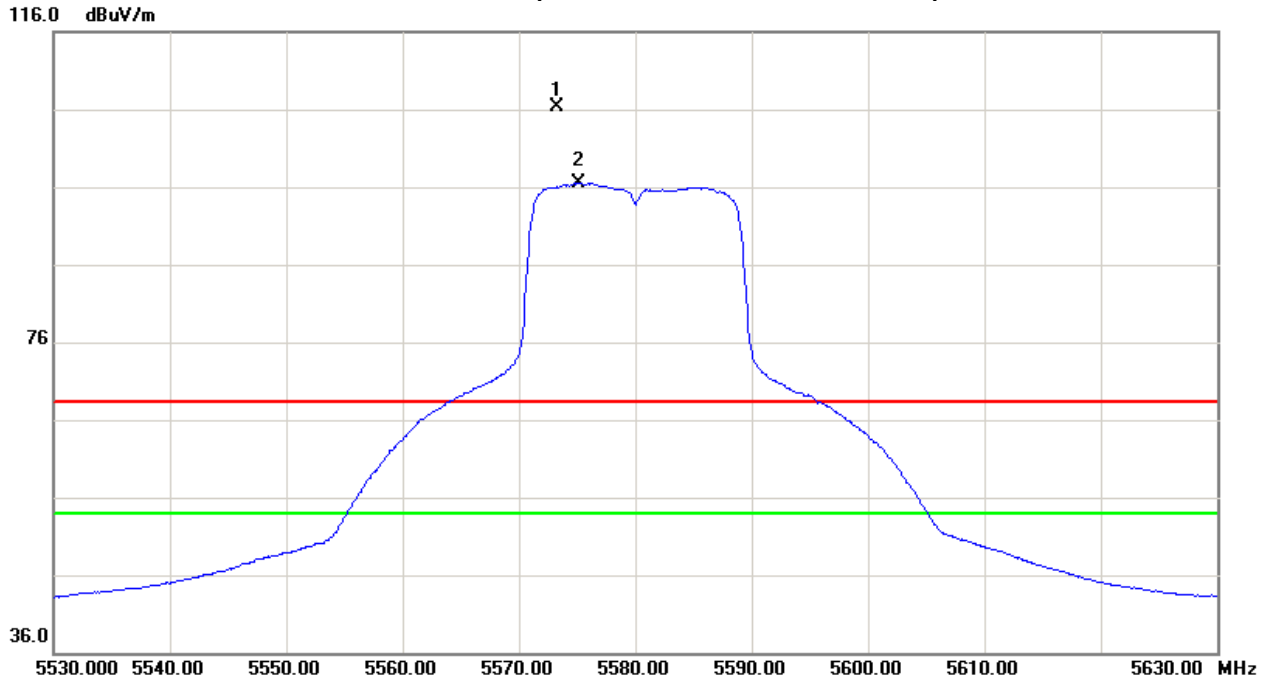


Orthogonal Axis: X  
Band 3/CH116(Above 1000 MHz, Vertical)



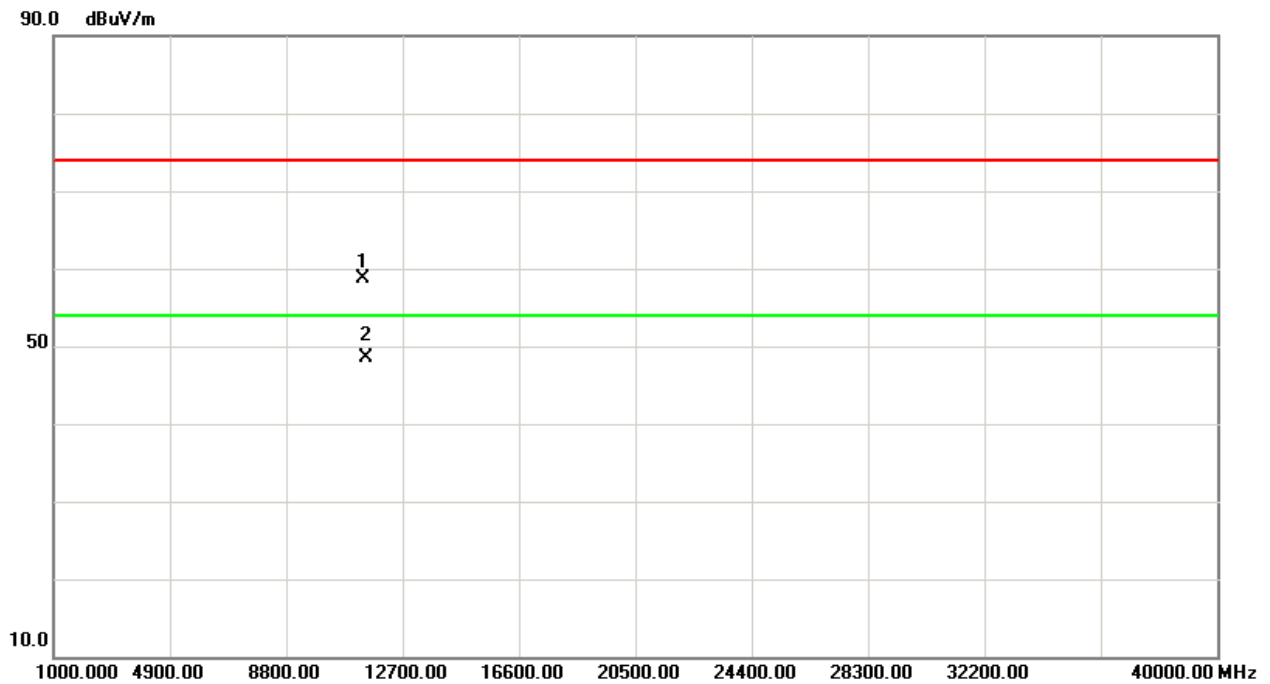
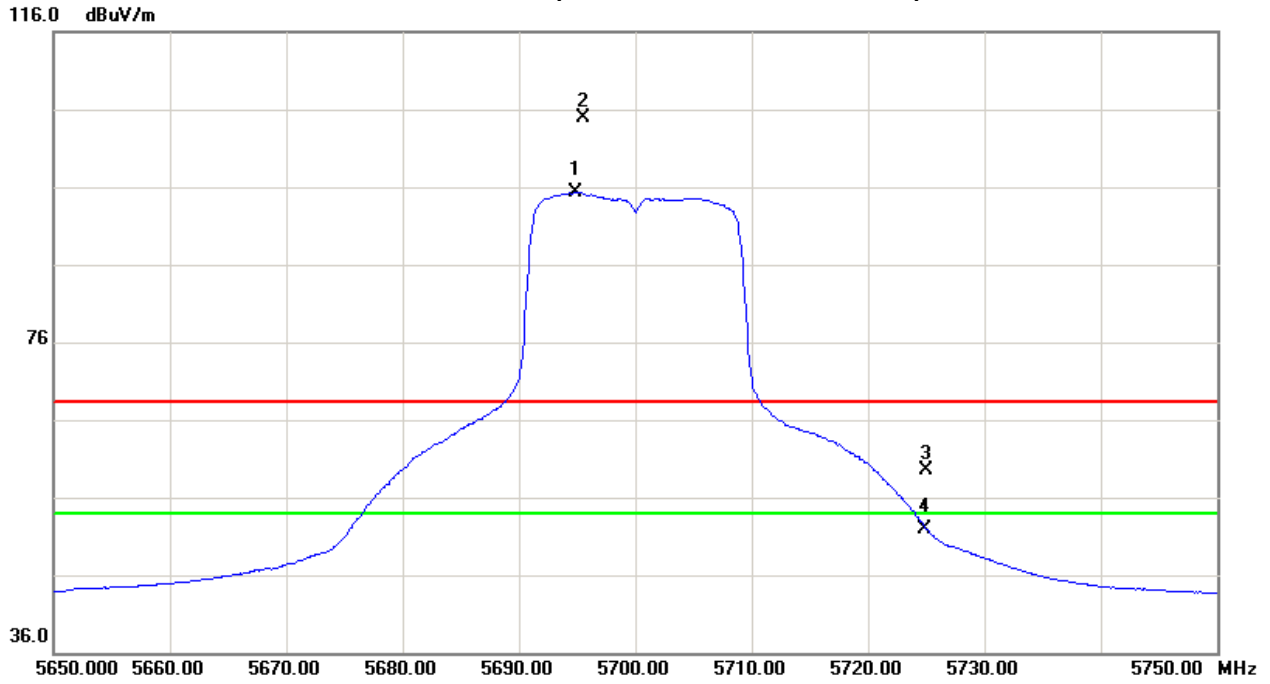


Orthogonal Axis:X  
Band 3/CH116(Above 1000 MHz, Horizontal)



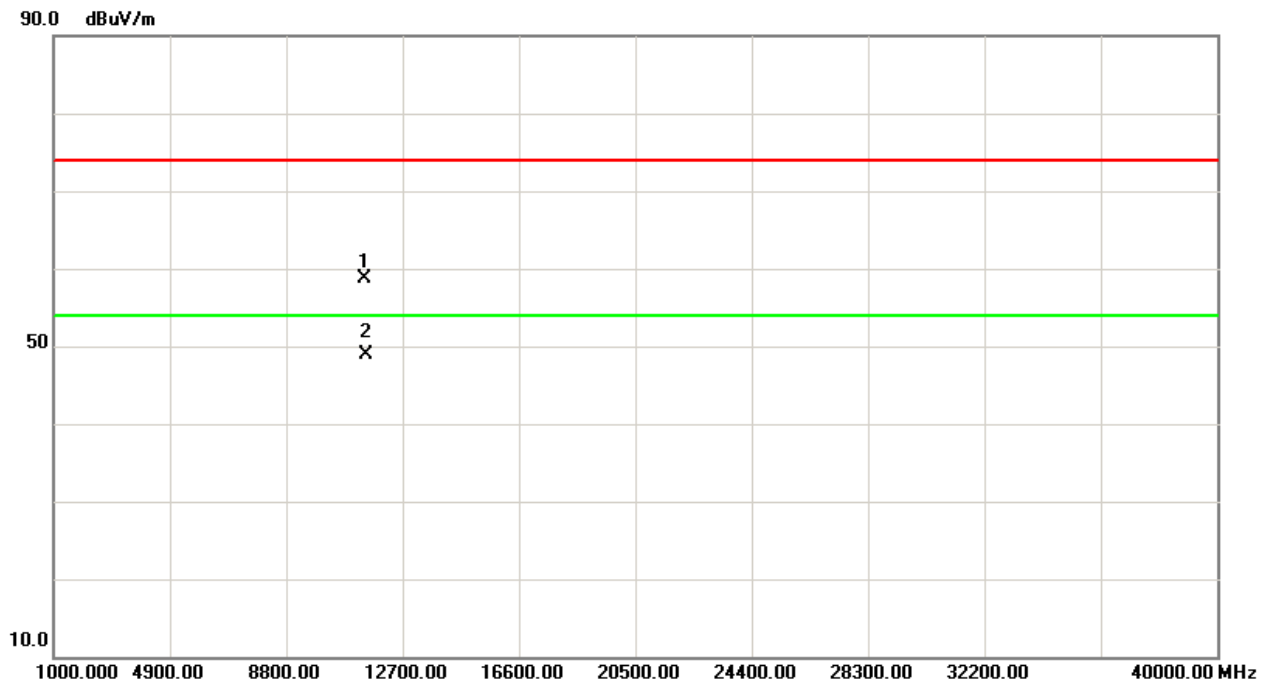
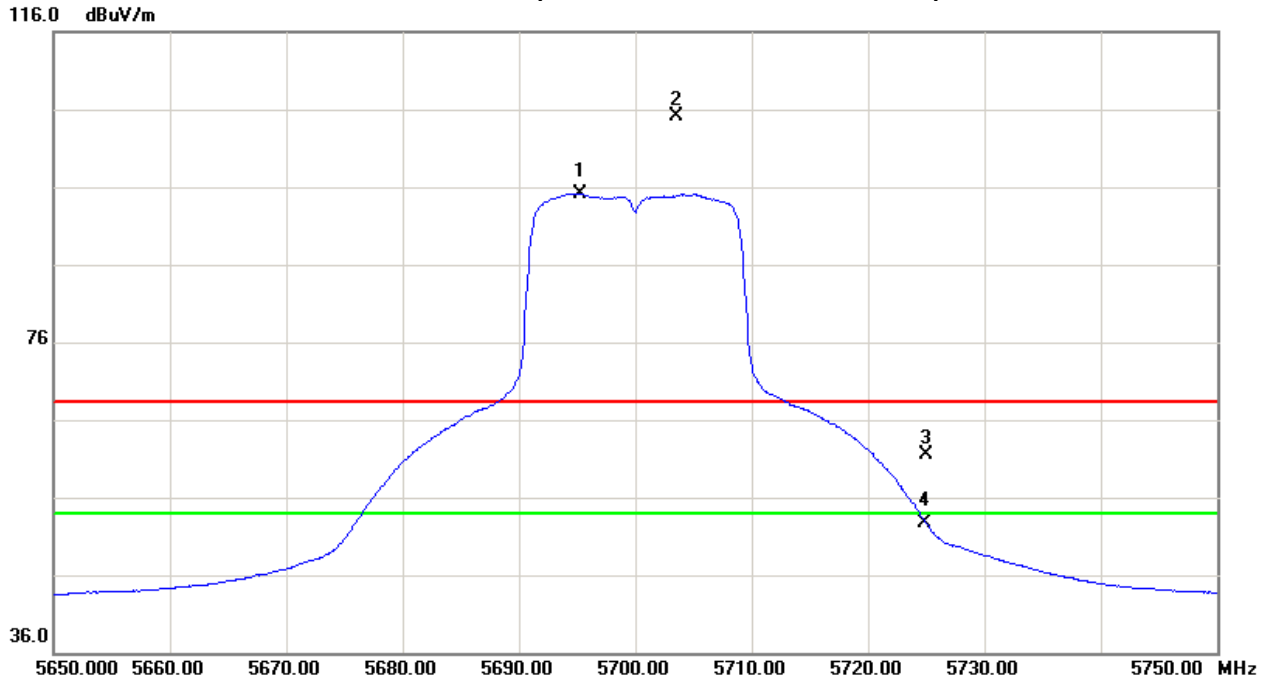


Orthogonal Axis:X  
Band 3/CH140(Above 1000 MHz, Vertical)





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	13.51	1.89	43.49	57.00	45.38	-47.77	-59.39	68.30	54.00	-27.00	-41.30	X/E
5470.00	V	17.80	7.36	43.50	61.30	50.86	-43.47	-53.91	68.30	54.00	-27.00	-41.30	X/E
5505.00	V	59.61	48.49	43.59	103.20	92.08	-1.57	-12.69					X/F
11020.60	V	36.54	27.23	17.31	53.85	44.54	-50.92	-60.23	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	13.40	1.76	43.49	56.89	45.25	-47.88	-59.52	68.30	54.00	-27.00	-41.30	X/E
5470.00	H	17.82	8.01	43.50	61.32	51.51	-43.45	-53.26	68.30	54.00	-27.00	-41.30	X/E
5498.60	H	56.14	47.29	43.58	99.72	90.87	-5.05	-13.90					X/F
11021.80	H	37.29	28.32	17.31	54.60	45.63	-50.17	-59.14	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	
5543.60	V	59.46	49.11	43.73	103.19	92.84	-1.58	-11.93					X/F
11101.50	V	38.01	28.67	17.51	55.52	46.18	-49.25	-58.59	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	
5547.20	H	58.17	47.42	43.74	101.91	91.16	-2.86	-13.61					X/F
11100.40	H	37.01	28.36	17.51	54.52	45.87	-50.25	-58.90	68.30	54.00	-27.00	-41.30	X/H

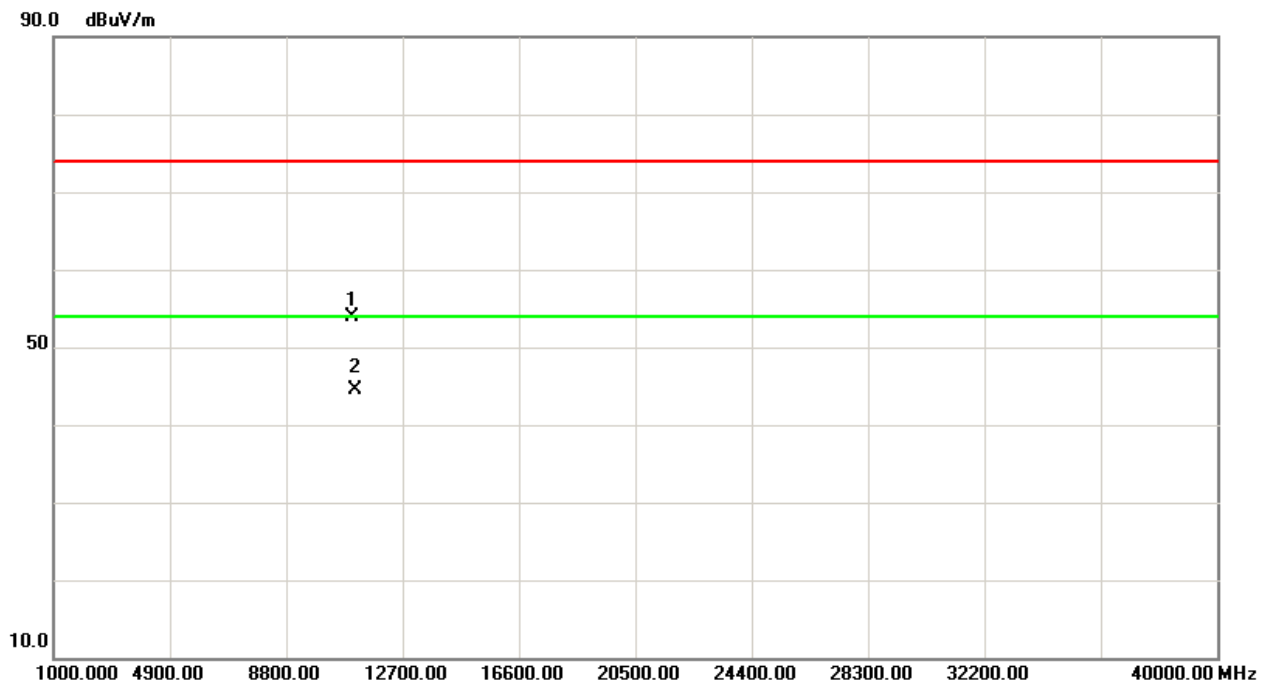
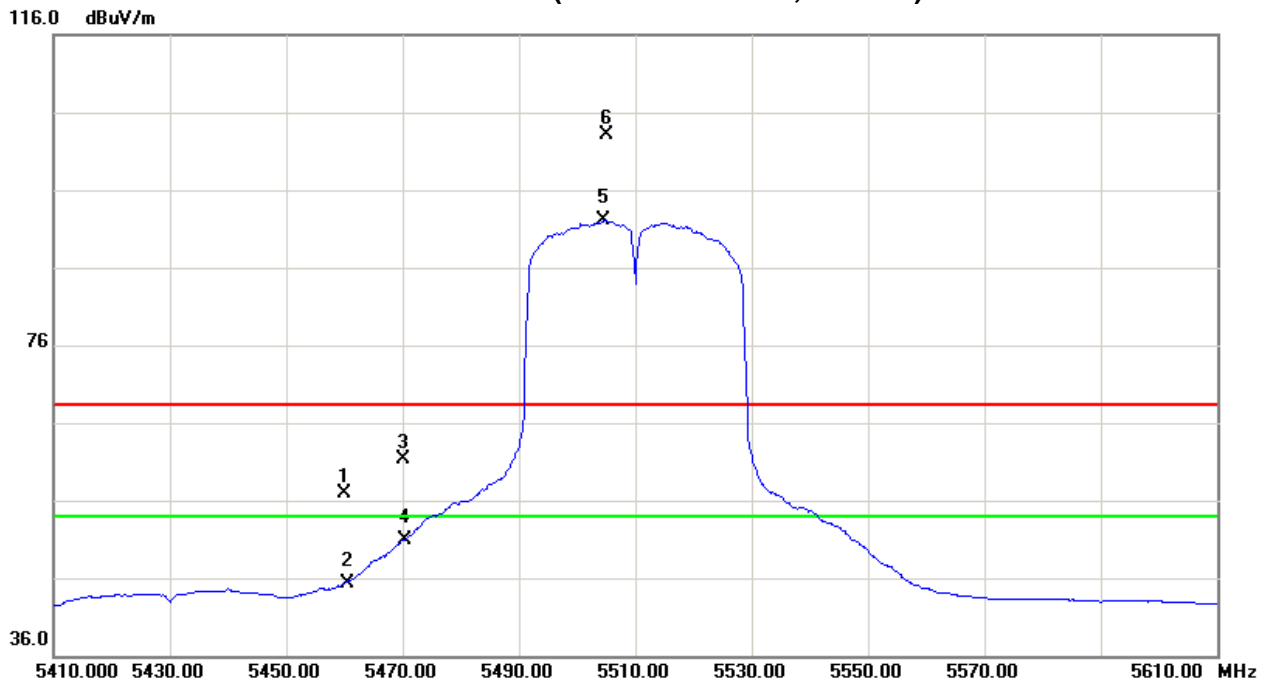
Test Mode : Band 3/ TX N40 Mode 5670MHz

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	
5661.60	V	58.41	47.78	44.43	102.84	92.21	-1.93	-12.56					X/F
5725.00	V	8.20	0.81	44.34	52.54	45.15	-52.23	-59.62	68.30	54.00	-27.00	-41.30	X/E
11339.20	V	38.02	28.39	18.10	56.12	46.49	-48.65	-58.28	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	
5677.60	H	58.15	47.83	44.18	102.33	92.01	-2.44	-12.76					X/F
5725.00	H	9.01	0.97	44.34	53.35	45.31	-51.42	-59.46	68.30	54.00	-27.00	-41.30	X/E
11340.20	H	38.67	28.64	18.10	56.77	46.74	-48.00	-58.03	68.30	54.00	-27.00	-41.30	X/H

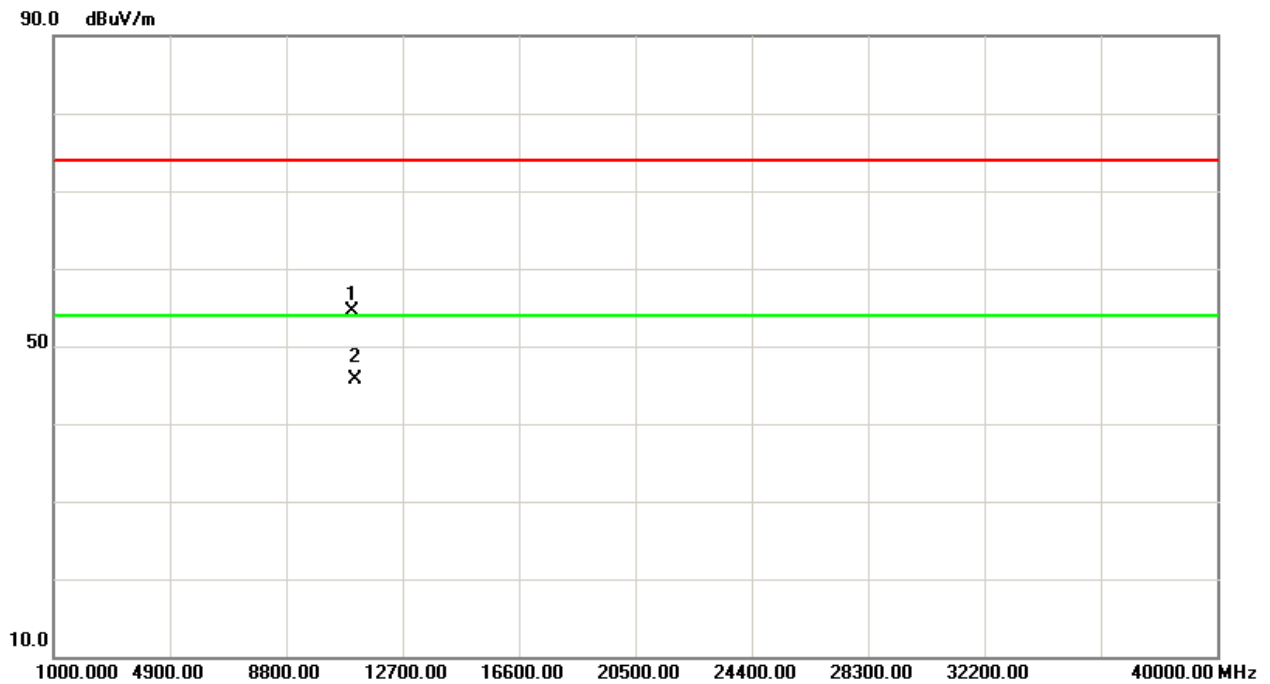
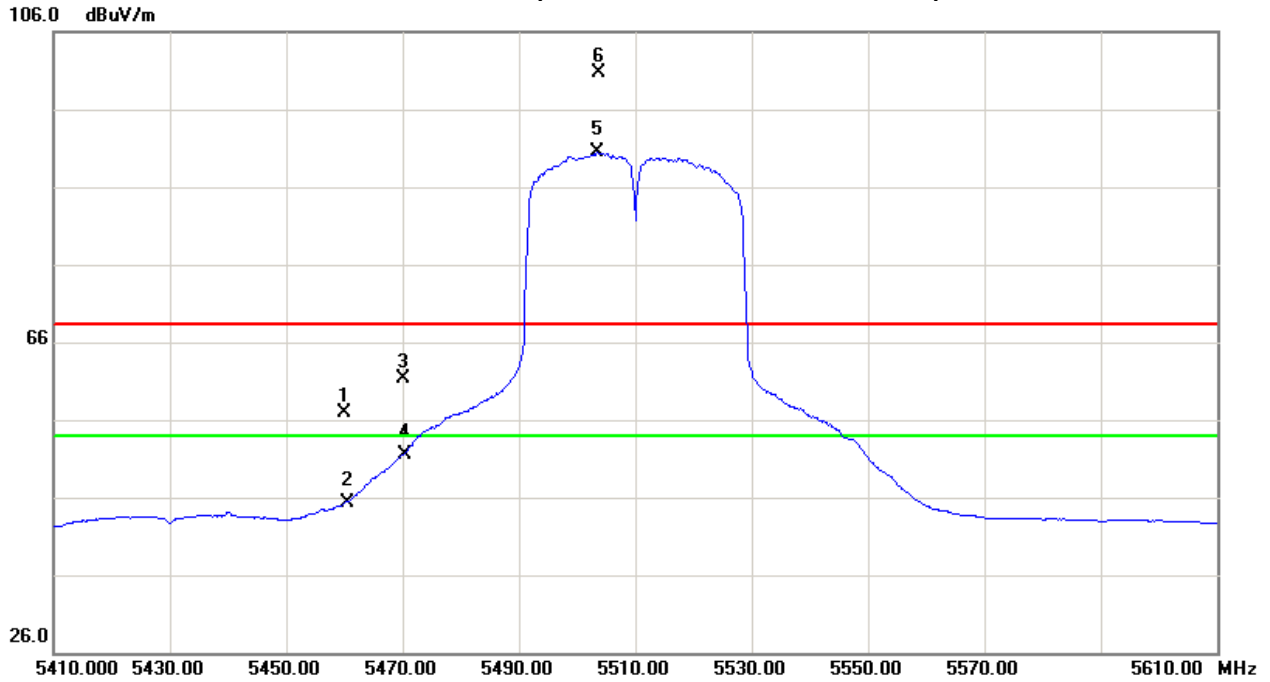


Orthogonal Axis: X  
Band 3/CH102(Above 1000 MHz, Vertical)



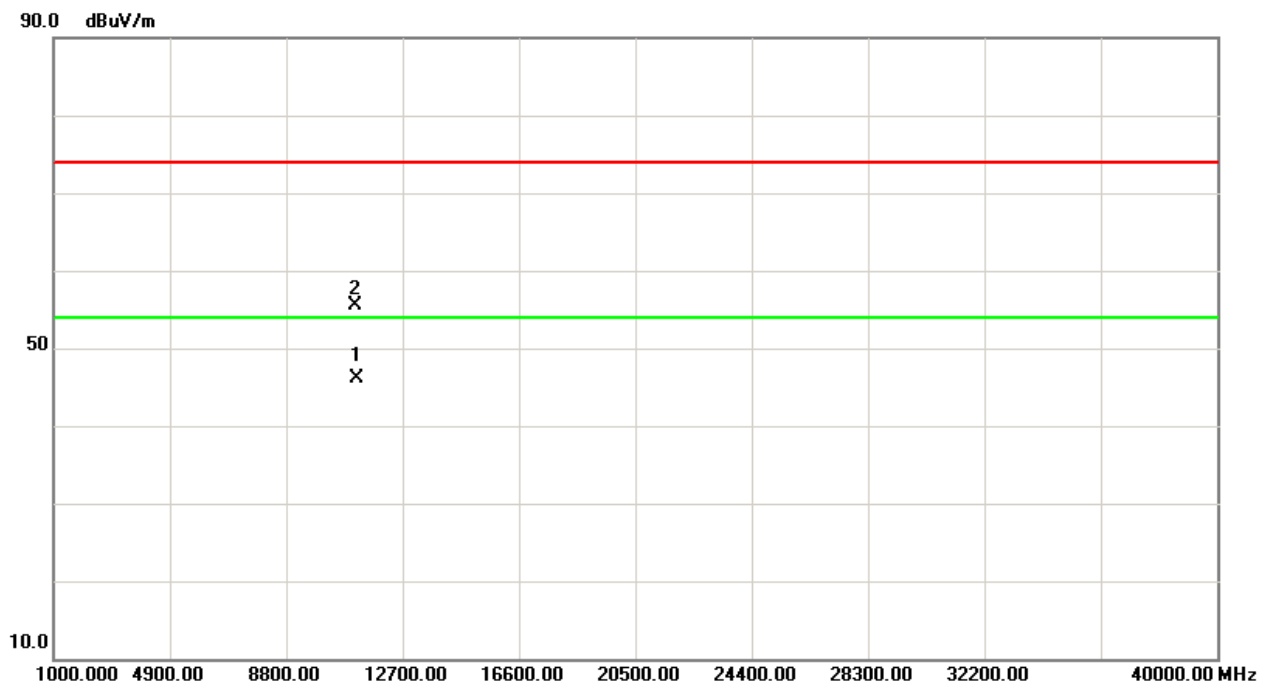
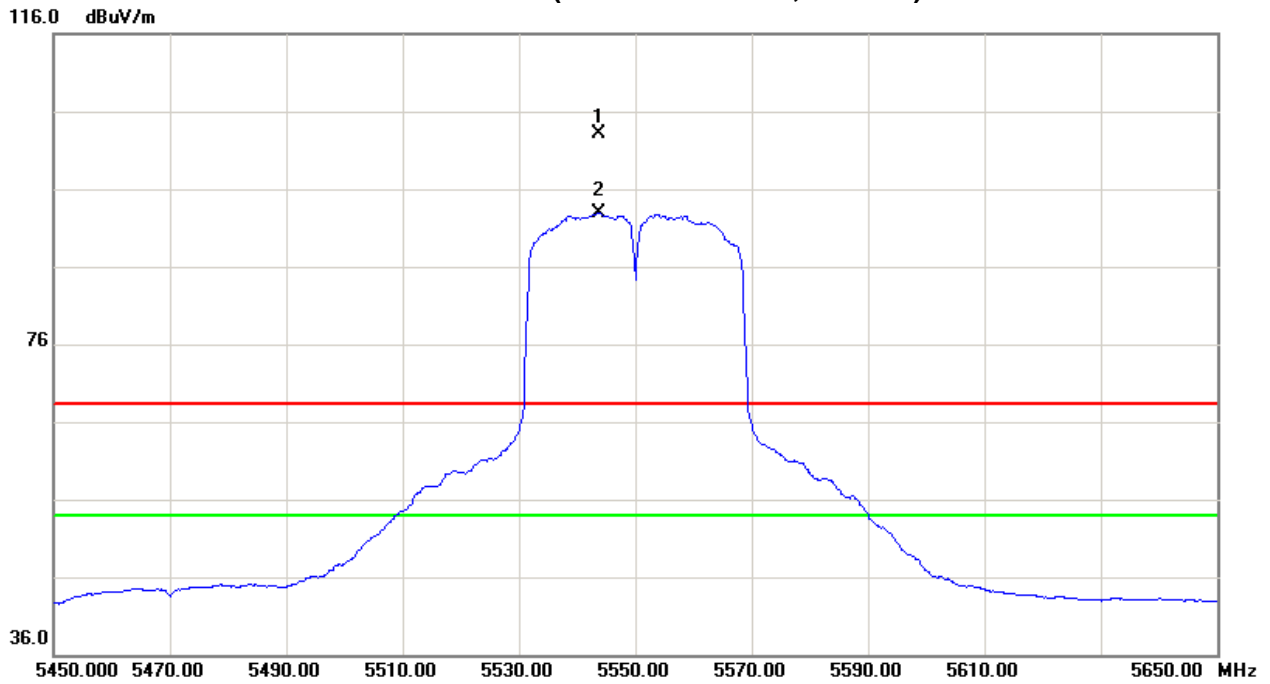


Orthogonal Axis:X  
Band 3/CH102(Above 1000 MHz, Horizontal)



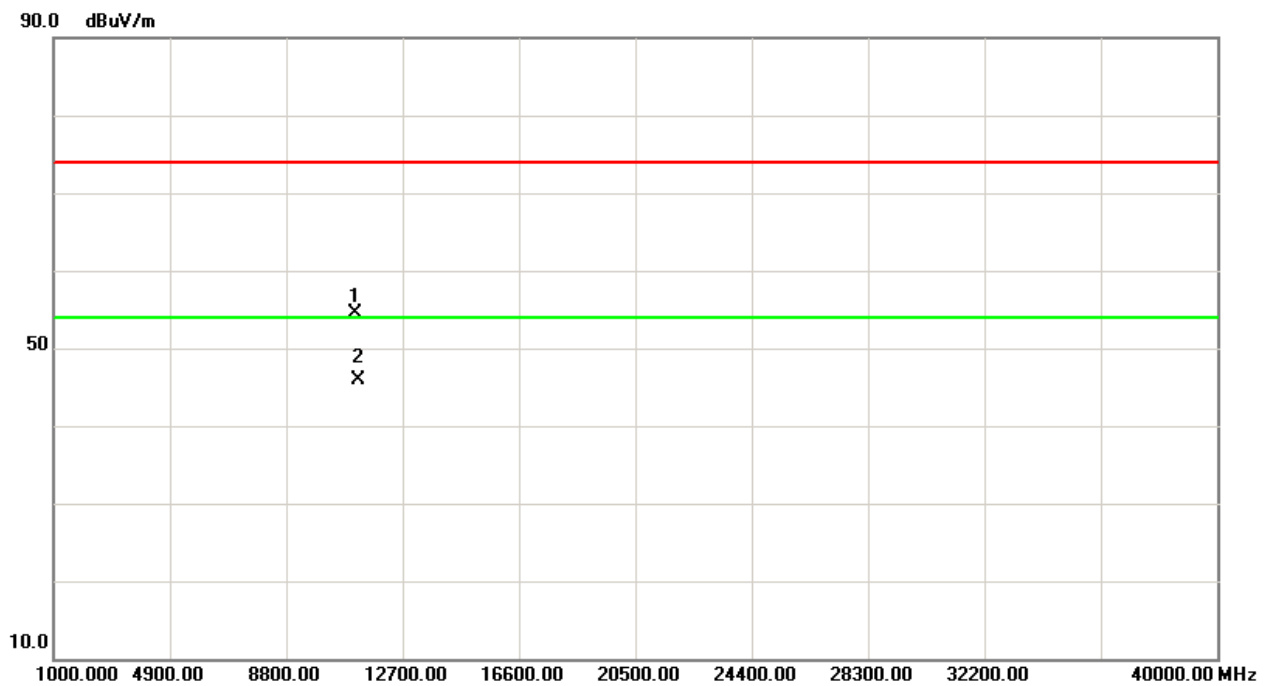
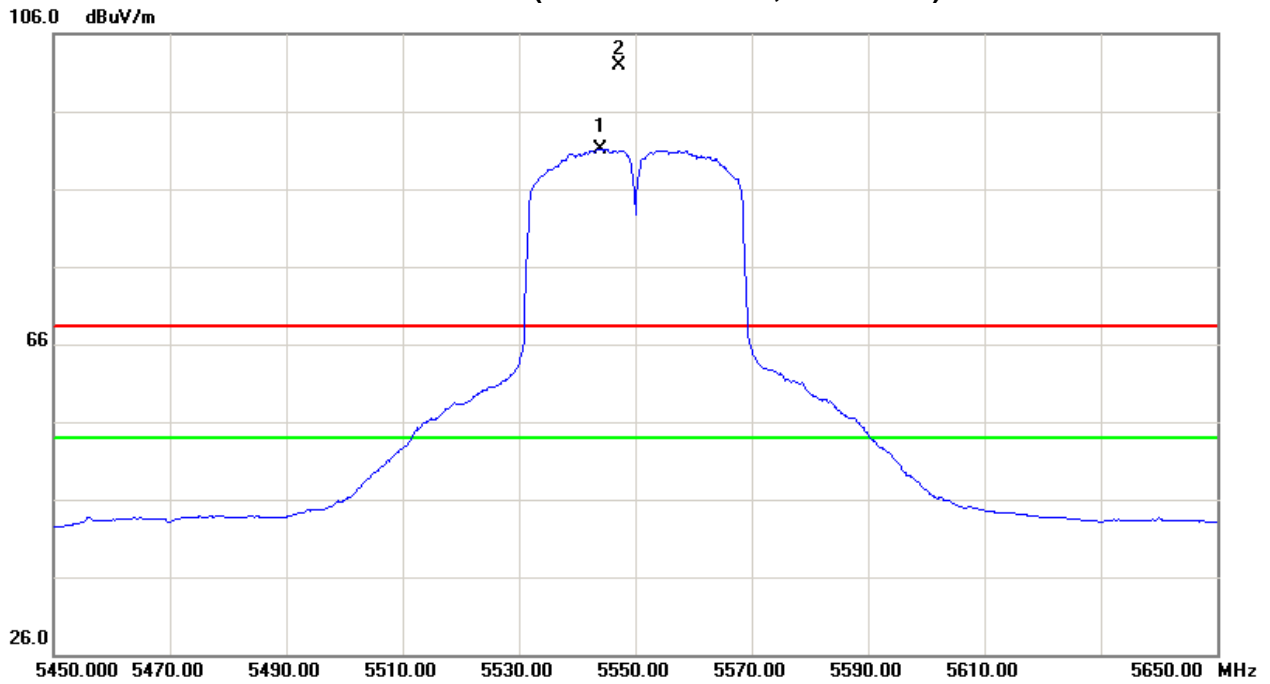


Orthogonal Axis:X  
Band 3/CH110(Above 1000 MHz, Vertical)



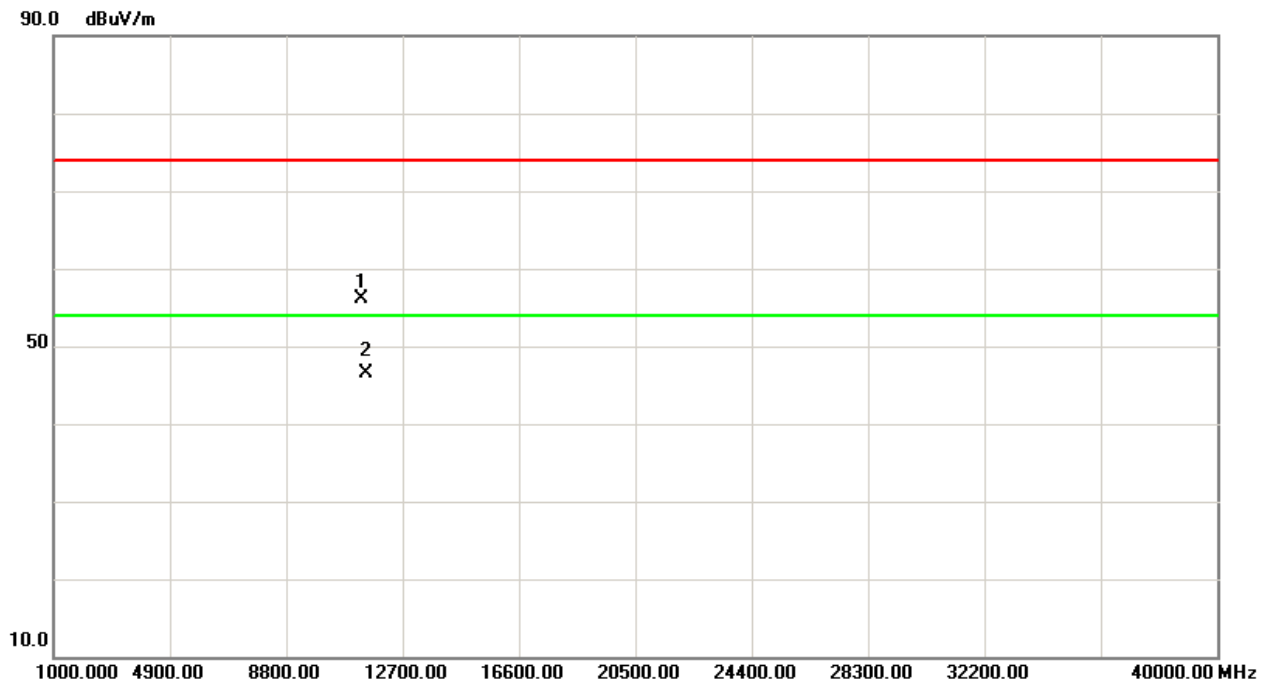
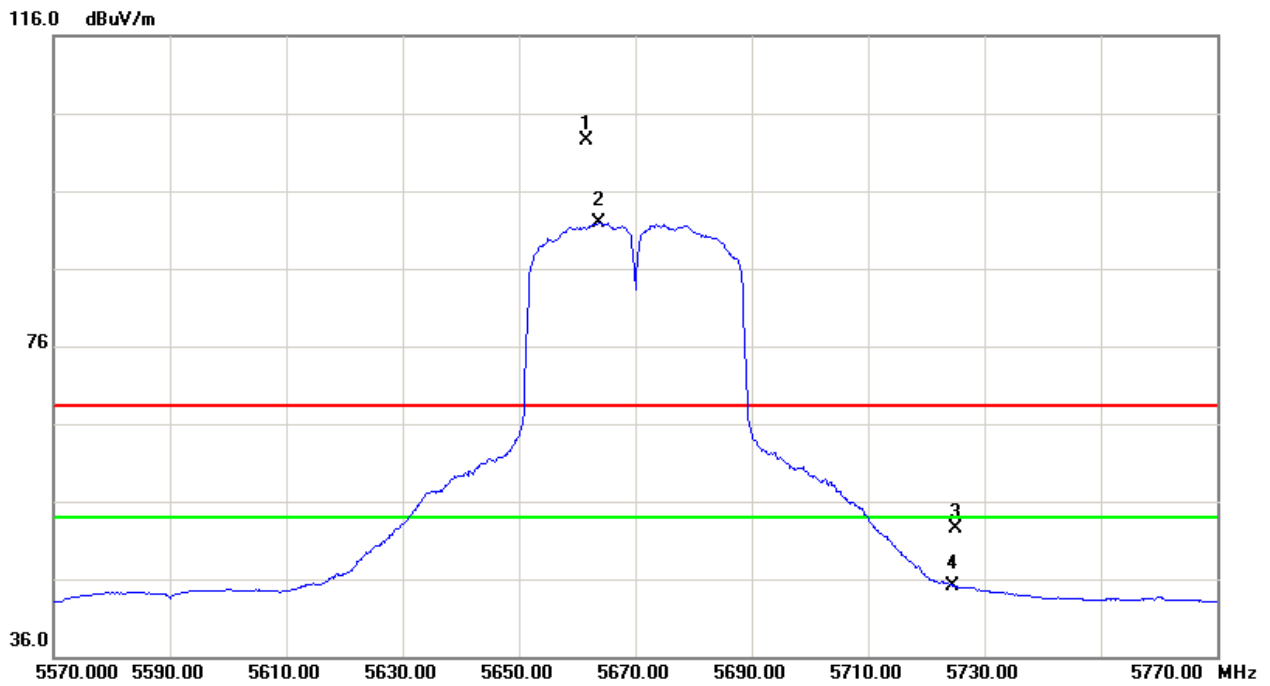


Orthogonal Axis: X  
Band 3/CH110(Above 1000 MHz, Horizontal)



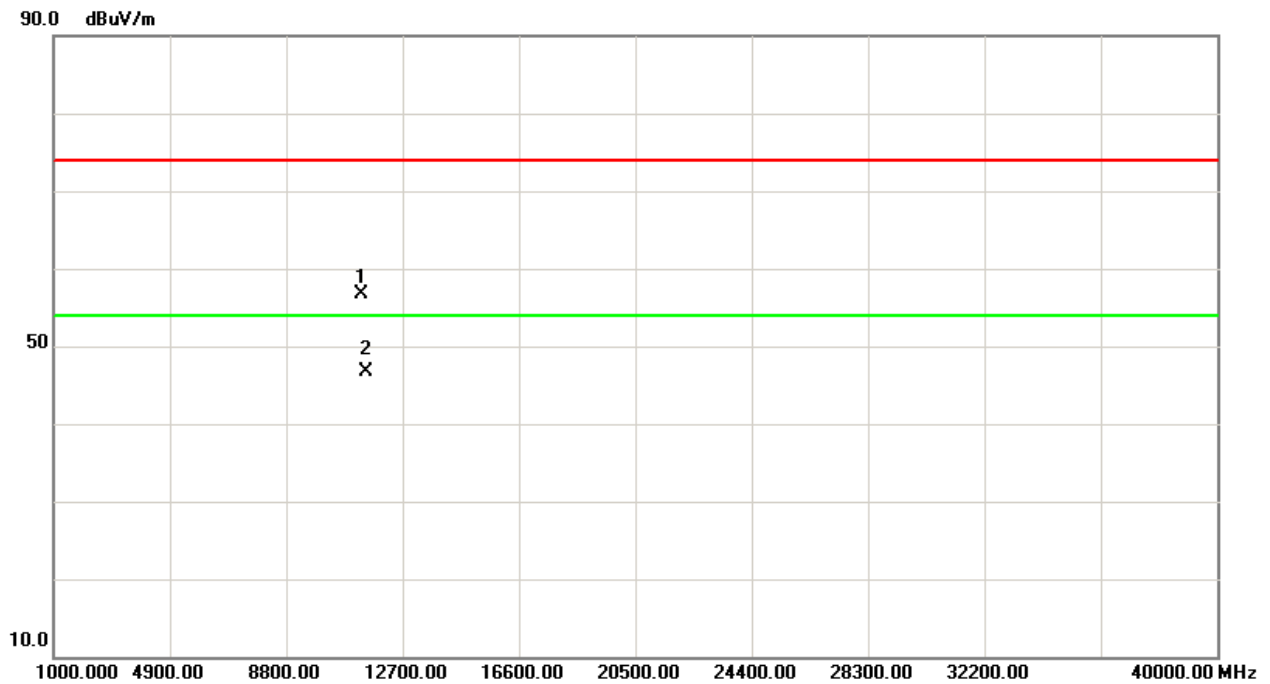
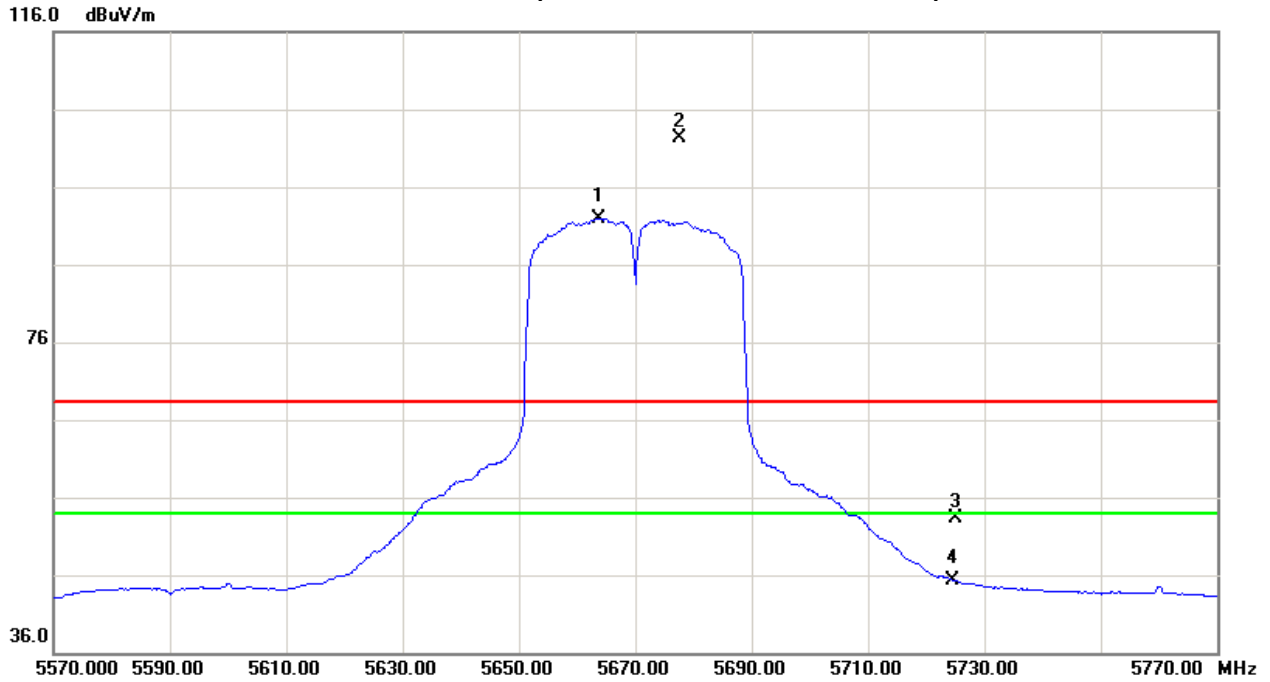


Orthogonal Axis: X  
Band 3/CH134(Above 1000 MHz, Vertical)





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	PASS
		5250MHz~5350	
		5470MHz~5725	

**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**

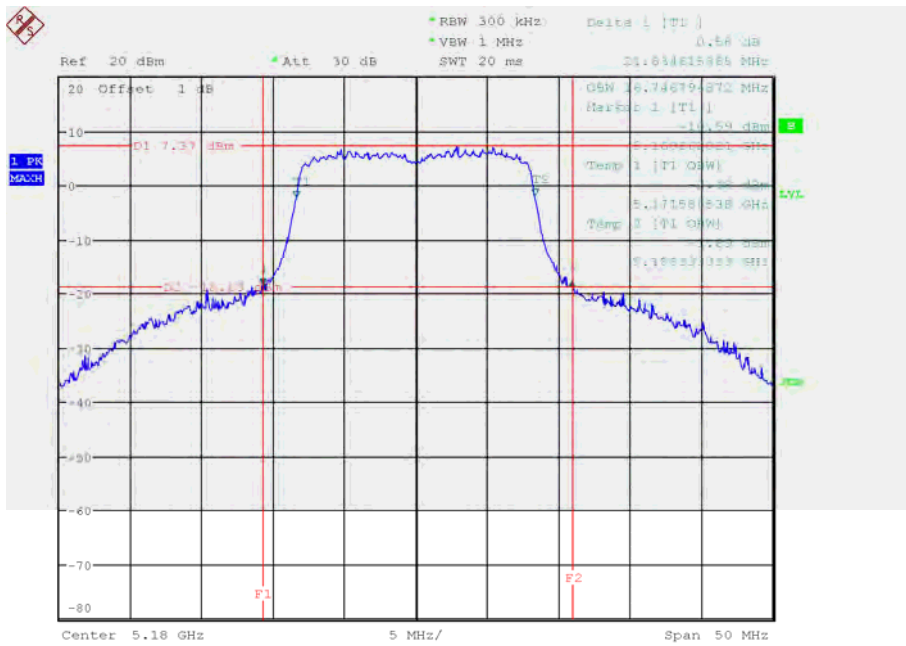
Temperature: 25°C  
 Relative Humidity: 55%  
 Test Voltage: 120V/60Hz



5.1.6 TEST RESULTS

Test Mode : Band 1/TX A Mode\_CH36/40/48

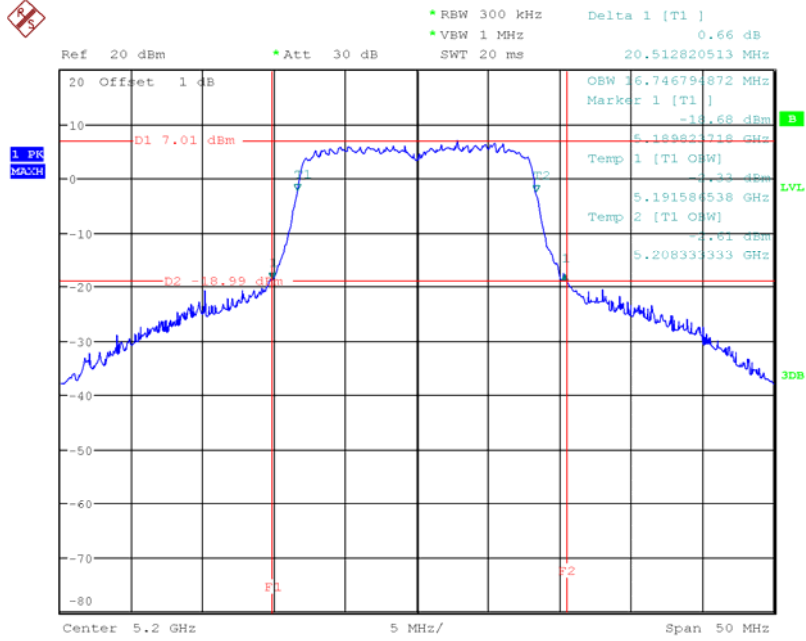
CH36



Date: 20.JAN.2014 09:28:03

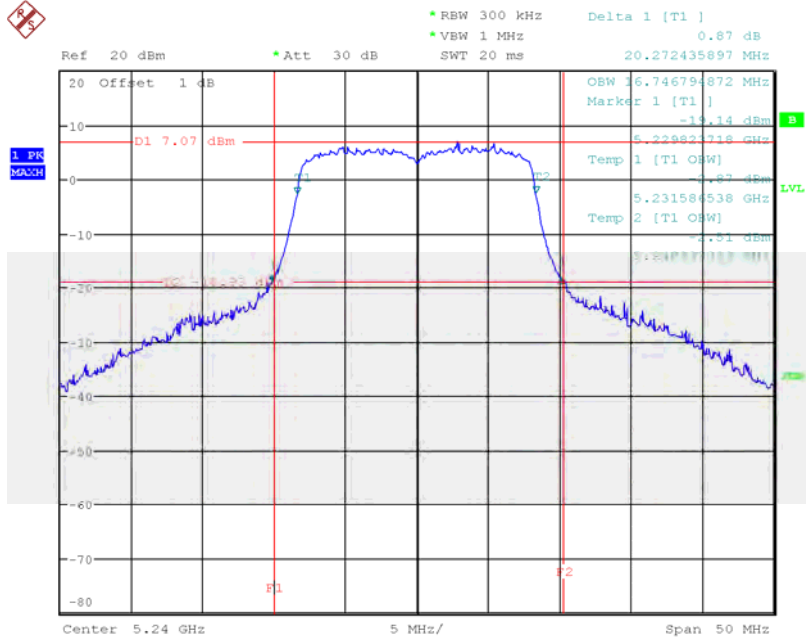


CH40



Date: 20.JAN.2014 09:24:37

CH48

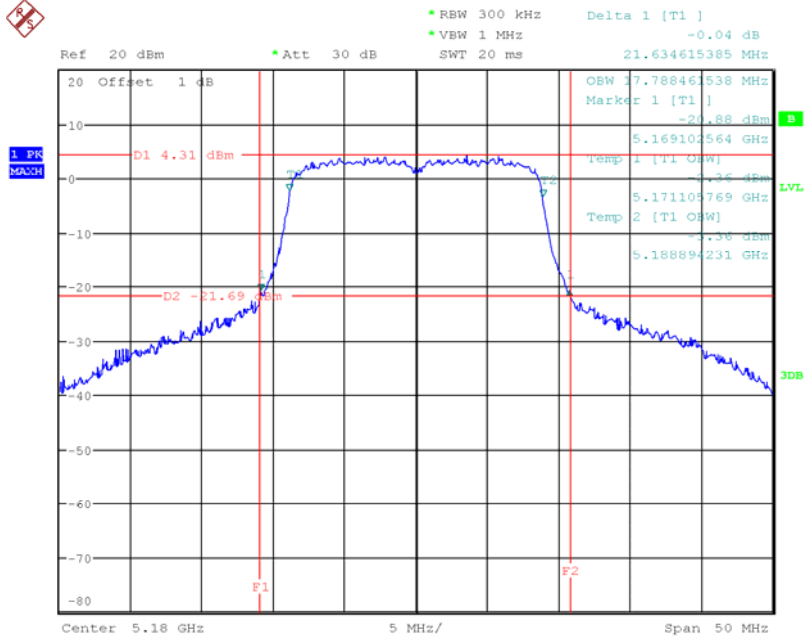


Date: 20.JAN.2014 09:31:11



Test Mode : Band 1/TXN20 Mode\_CH36/40/48-ANT 1

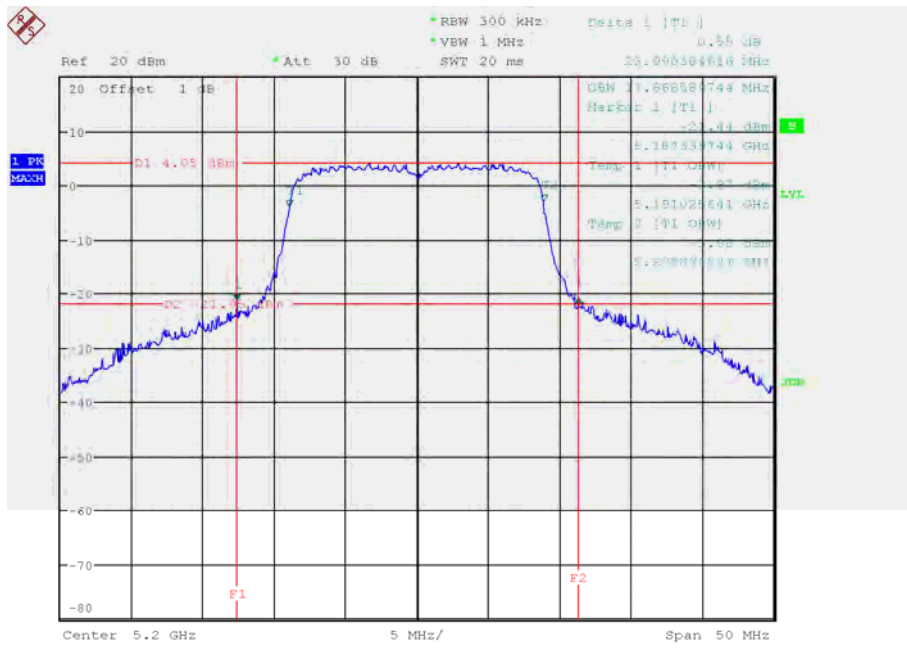
CH36



Date: 20.JAN.2014 15:42:24

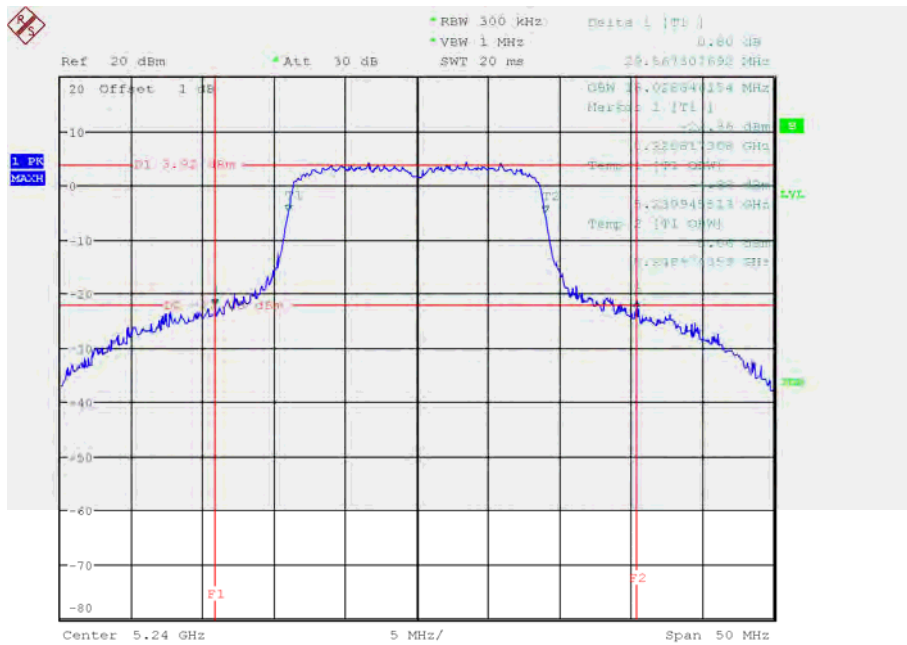


### CH40



Date: 20.JAN.2014 15:45:18

### CH48

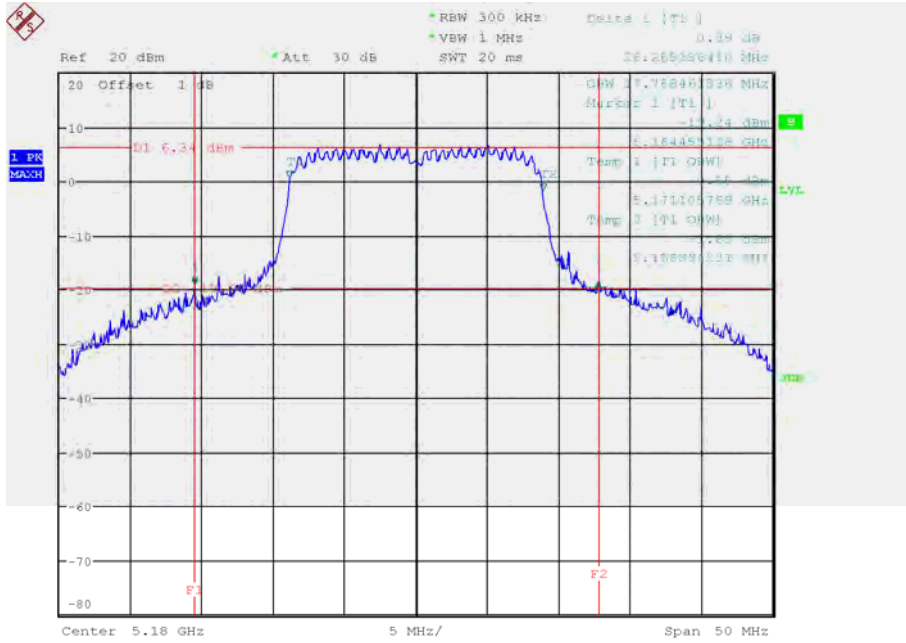


Date: 20.JAN.2014 15:48:10



Test Mode : Band 1/TXN20 Mode\_CH36/40/48-ANT 2

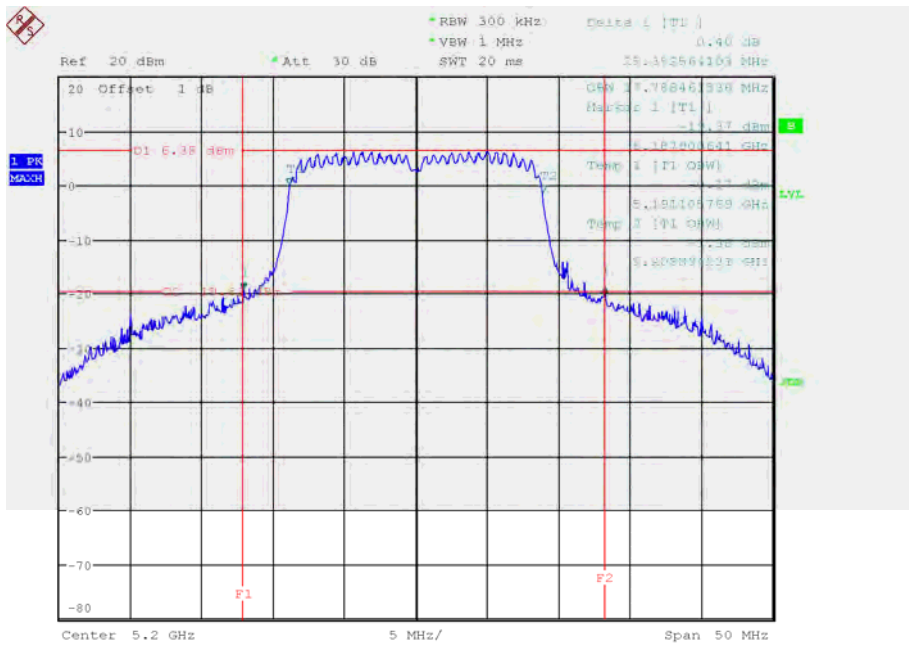
### CH36



Date: 20.JAN.2014 10:37:16

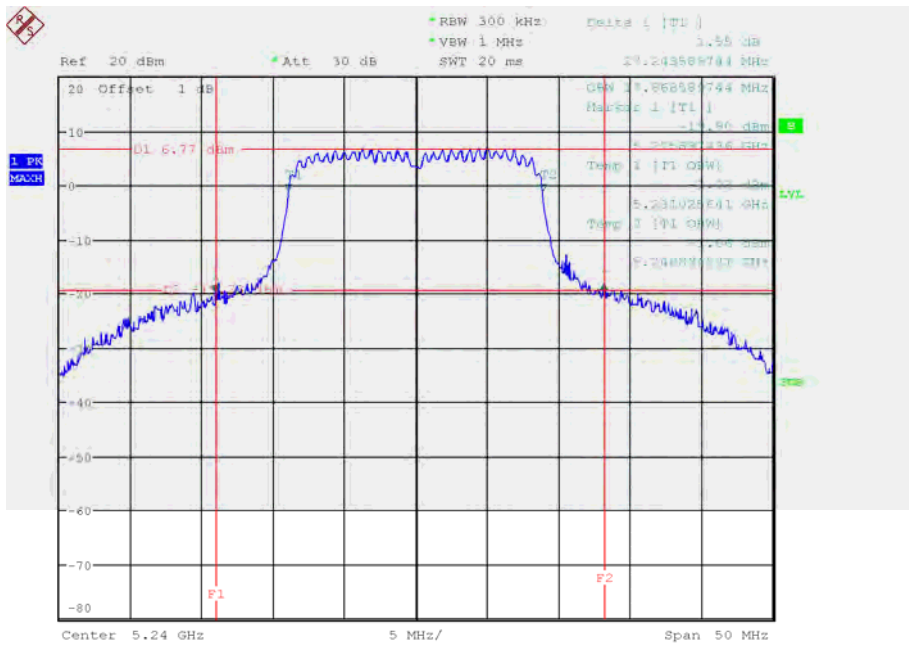


### CH40



Date: 20.JAN.2014 10:42:51

### CH48

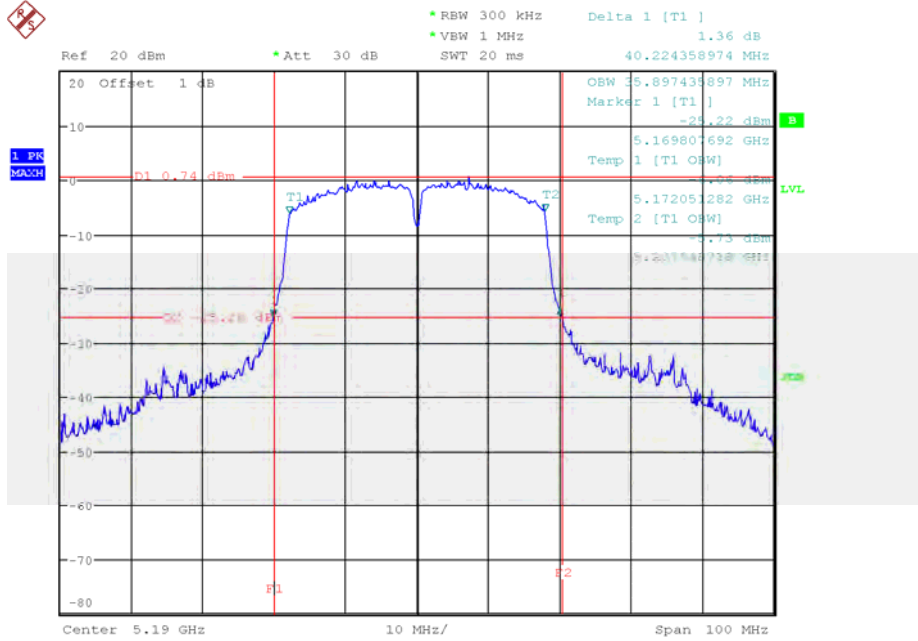


Date: 20.JAN.2014 10:45:52



Test Mode : Band 1/TX N40 Mode\_CH38/46-ANT 1

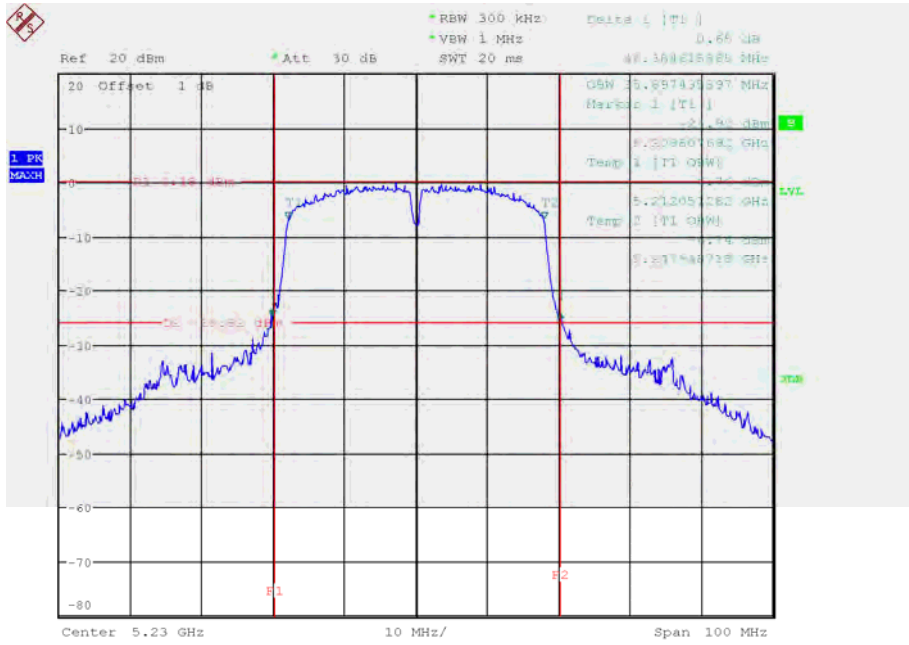
CH38



Date: 20.JAN.2014 14:35:16



CH46

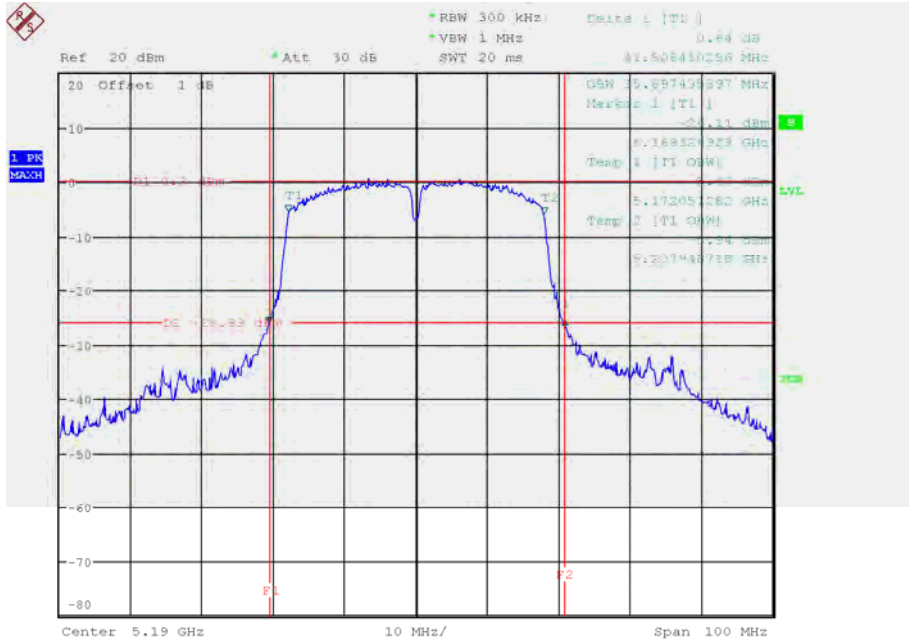


Date: 20.JAN.2014 14:47:14



Test Mode : Band 1/TX N40 Mode\_CH38/46-ANT 2

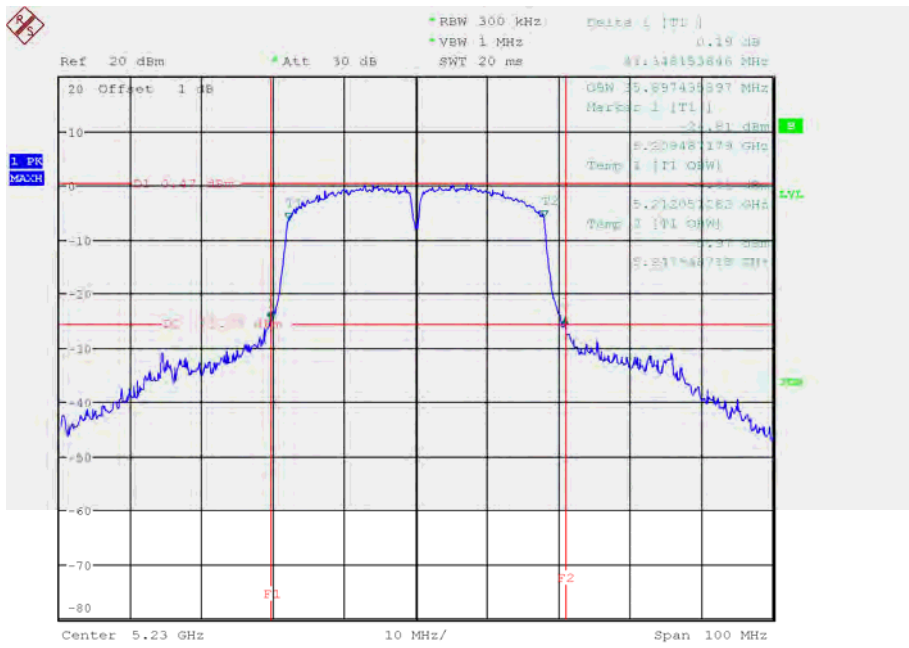
CH38



Date: 20.JAN.2014 14:34:29



CH46

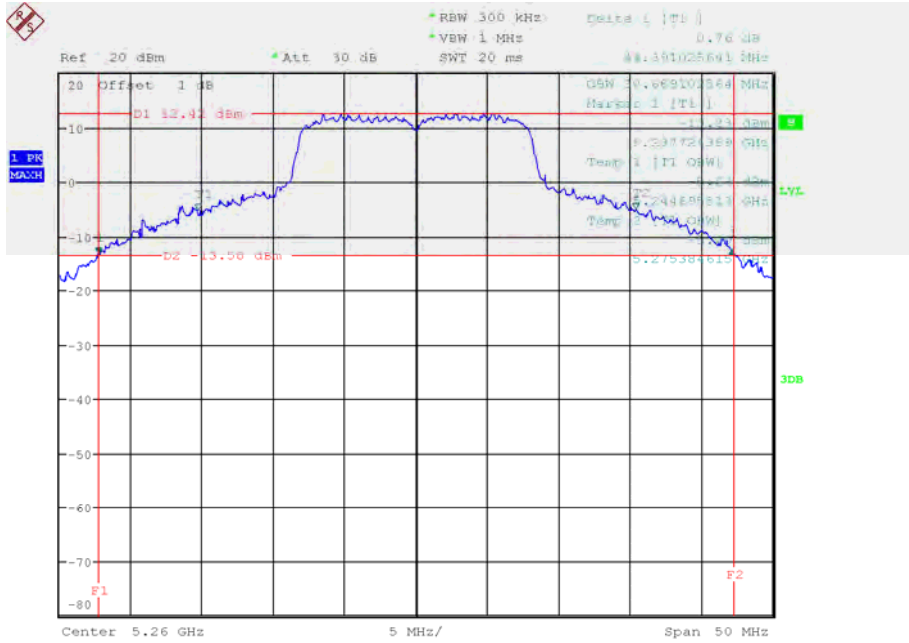


Date: 20.JAN.2014 14:46:01



Test Mode : Band 2/TX A Mode\_CH52/56/64

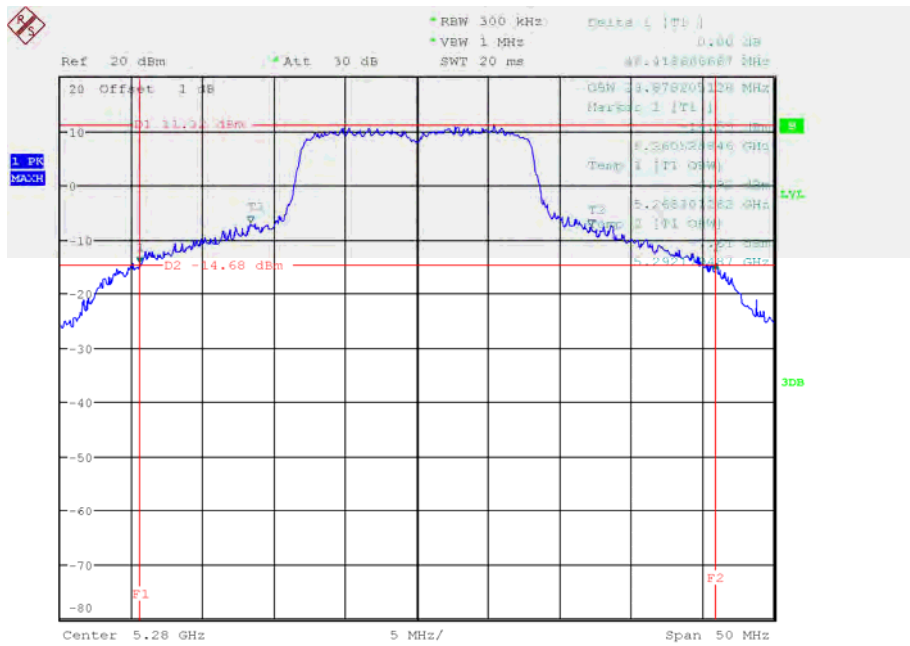
CH52



Date: 20.JAN.2014 09:44:15

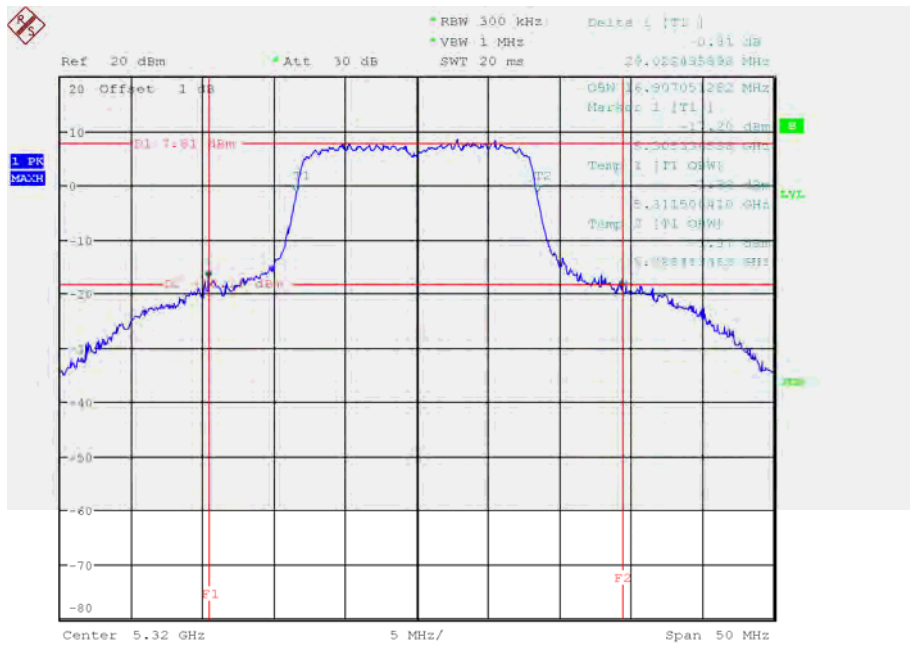


CH56



Date: 20.JAN.2014 09:49:35

CH64

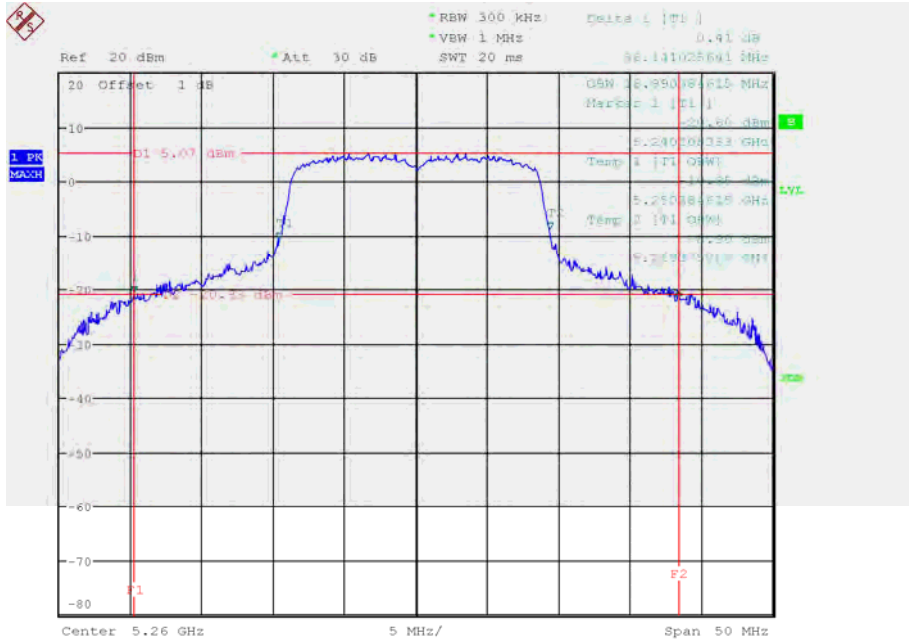


Date: 20.JAN.2014 09:53:00



Test Mode : Band 2/TX N20 Mode\_CH52/56/64-ANT 1

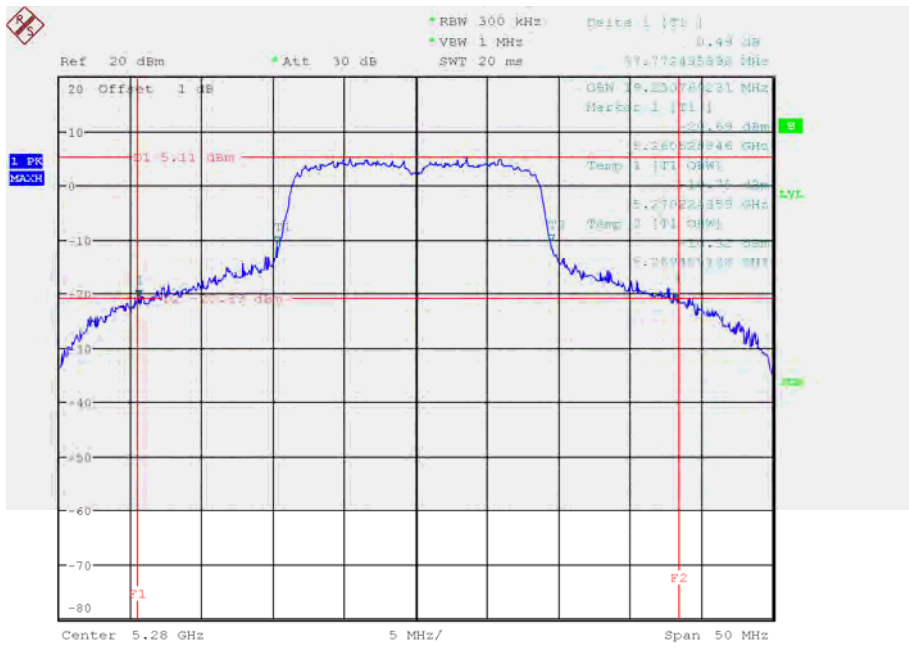
CH52



Date: 20.JAN.2014 15:55:12

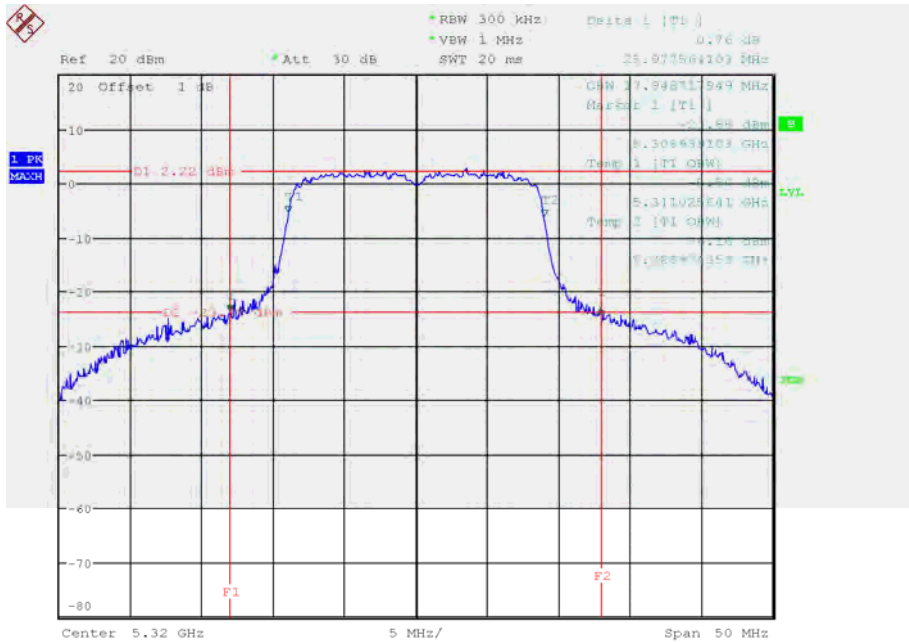


### CH56



Date: 20.JAN.2014 15:57:50

### CH64

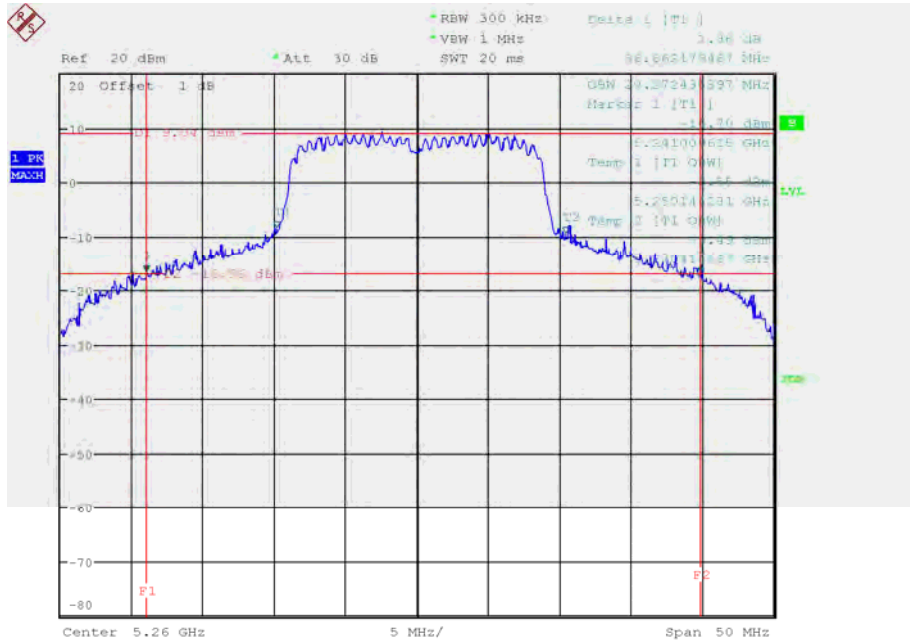


Date: 20.JAN.2014 16:00:09



Test Mode : Band 2/TX N20 Mode\_CH52/56/64-ANT 2

### CH52



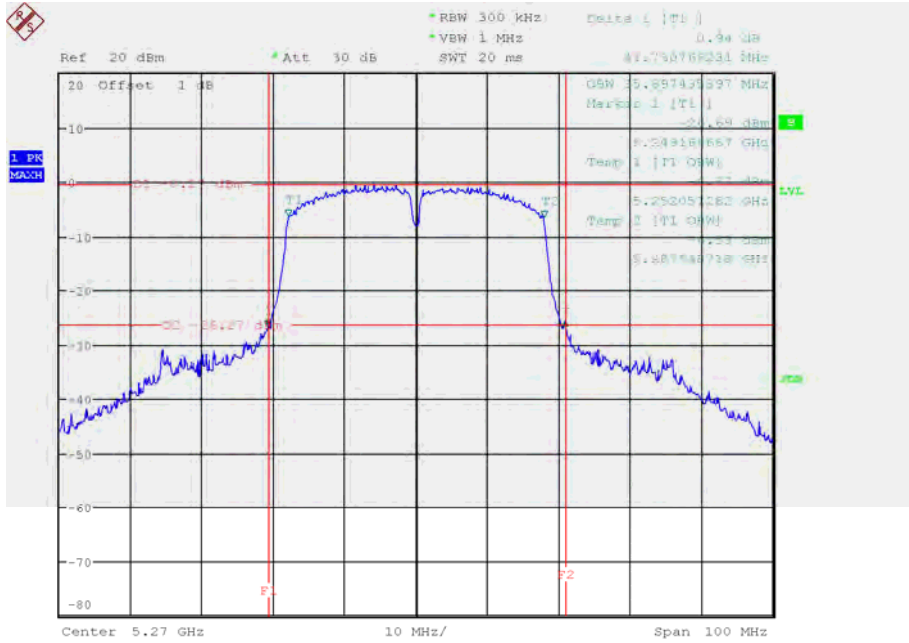
Date: 20.JAN.2014 10:53:26





Test Mode : Band 2/TX N40 Mode\_CH54/62-ANT 1

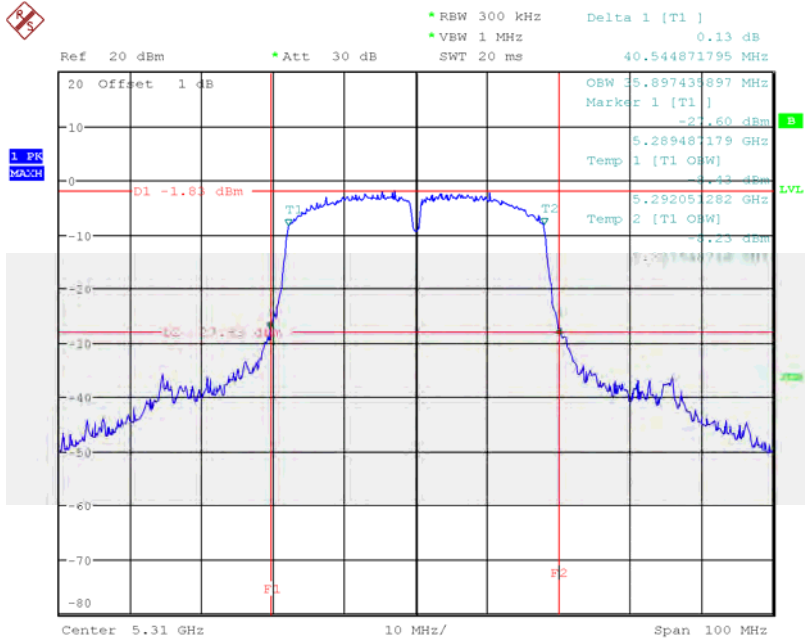
CH54



Date: 20.JAN.2014 14:57:09



CH62

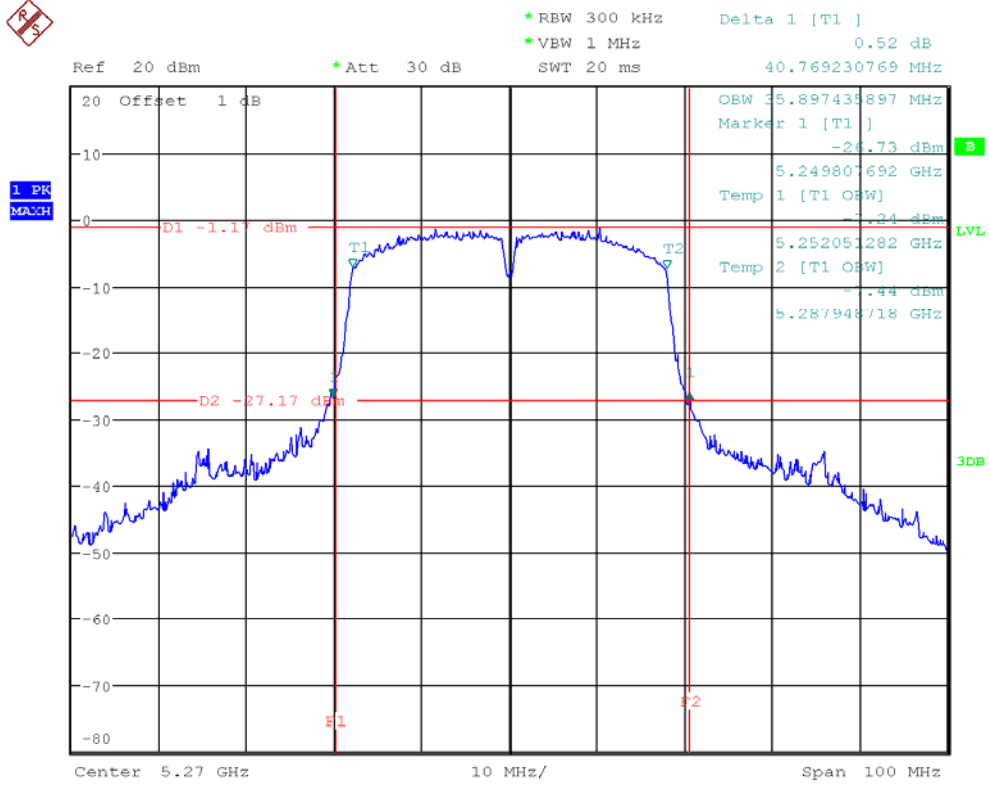


Date: 20.JAN.2014 15:10:38



Test Mode : Band 2/TX N40 Mode\_CH54/62-ANT 2

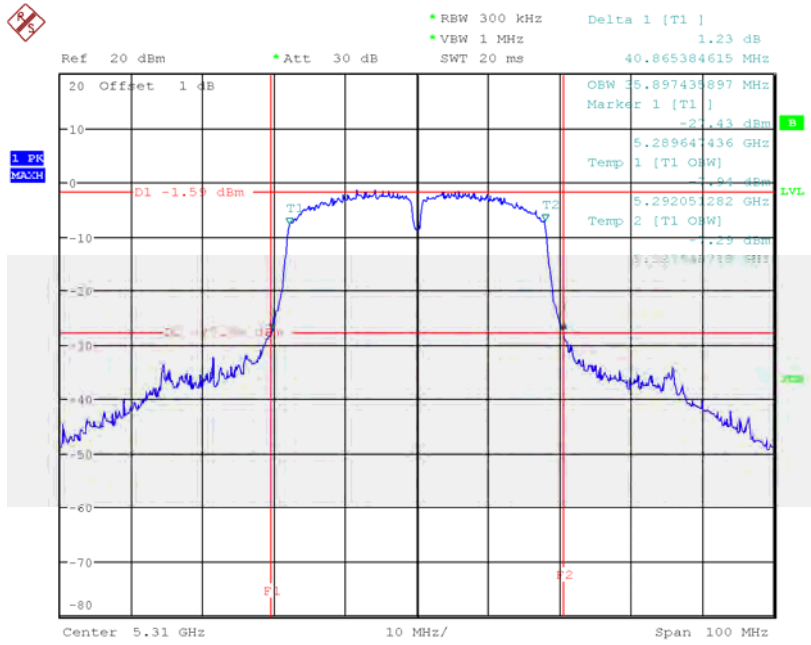
CH54



Date: 20.JAN.2014 14:53:49



### CH62

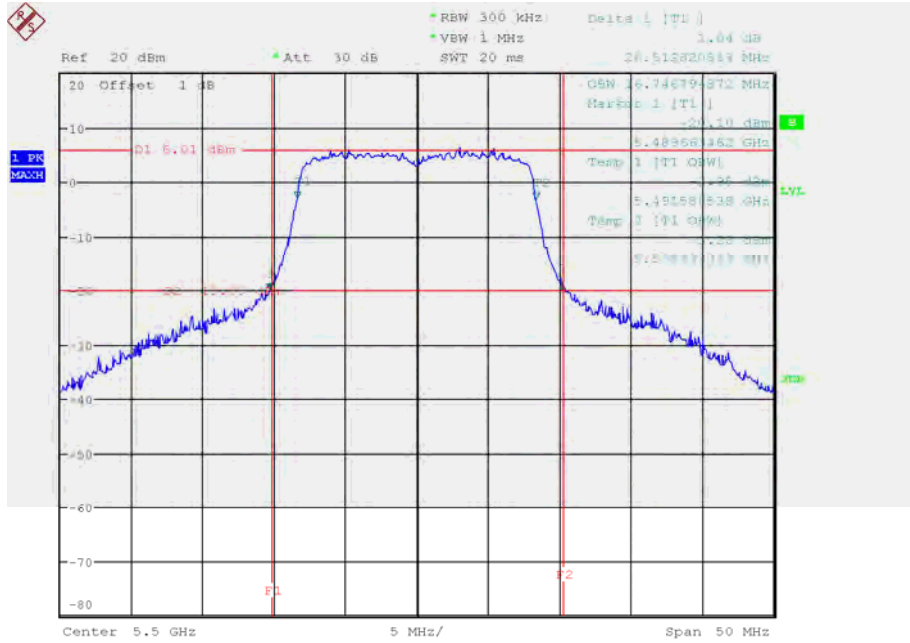


Date: 20.JAN.2014 15:09:42



Test Mode : Band 3/TX A Mode\_CH100/116/140

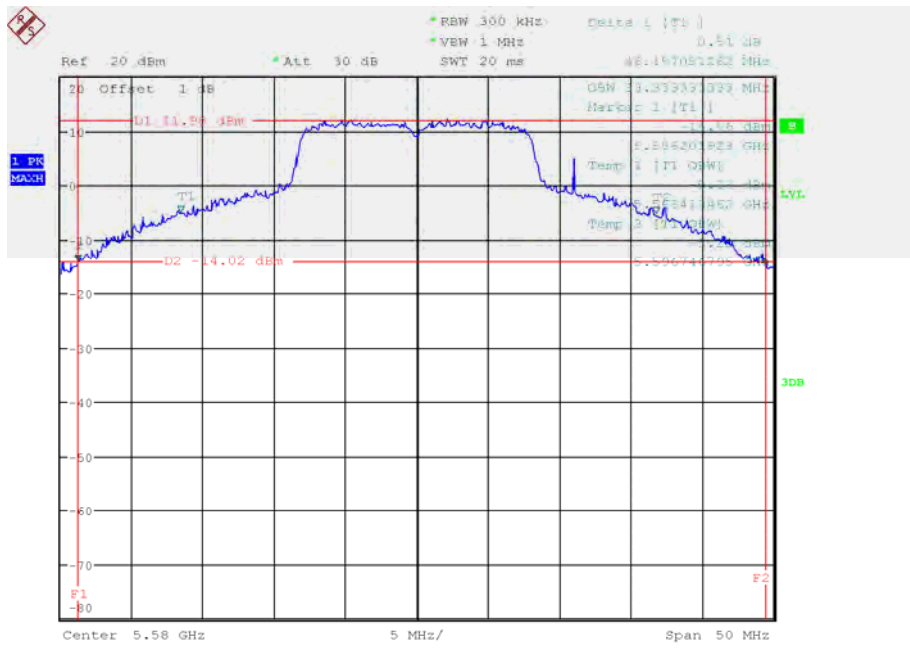
CH100



Date: 20.JAN.2014 10:05:31

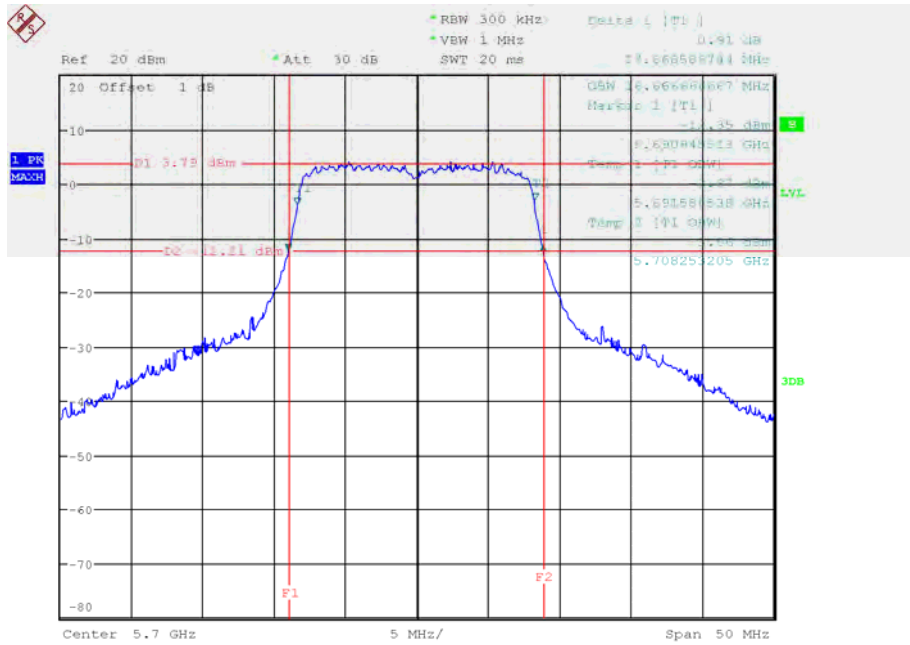


CH116



Date: 20.JAN.2014 10:09:42

CH140

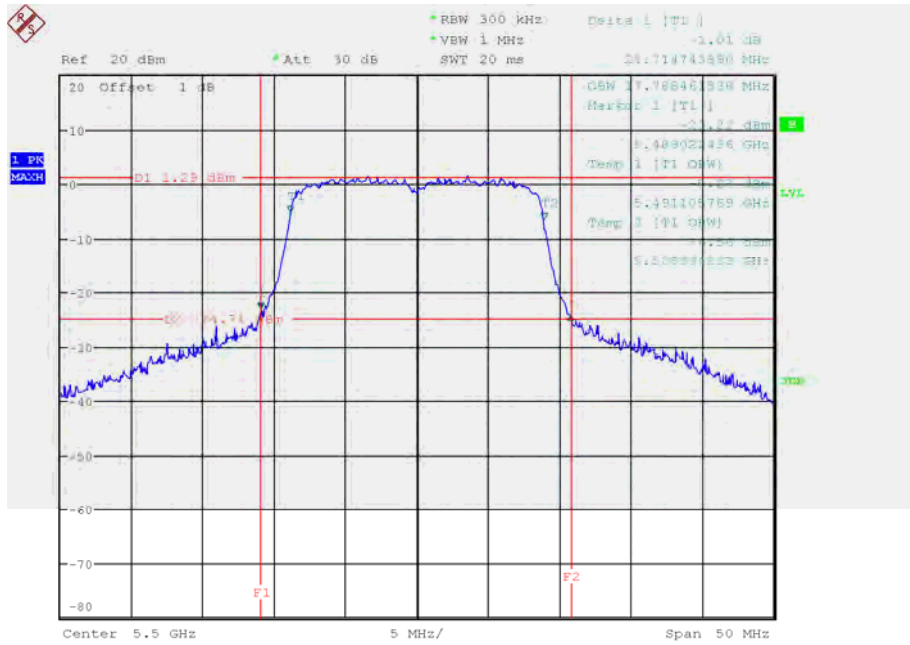


Date: 20.JAN.2014 10:18:42



Test Mode : Band 3/TX N20 Mode\_CH100/116/140-ANT 1

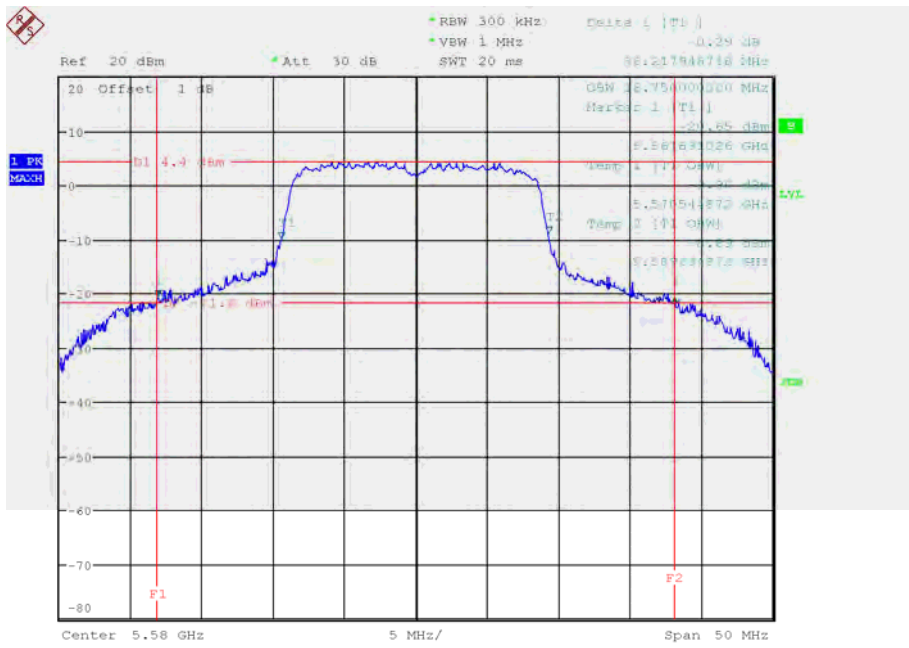
CH100



Date: 20.JAN.2014 16:05:09

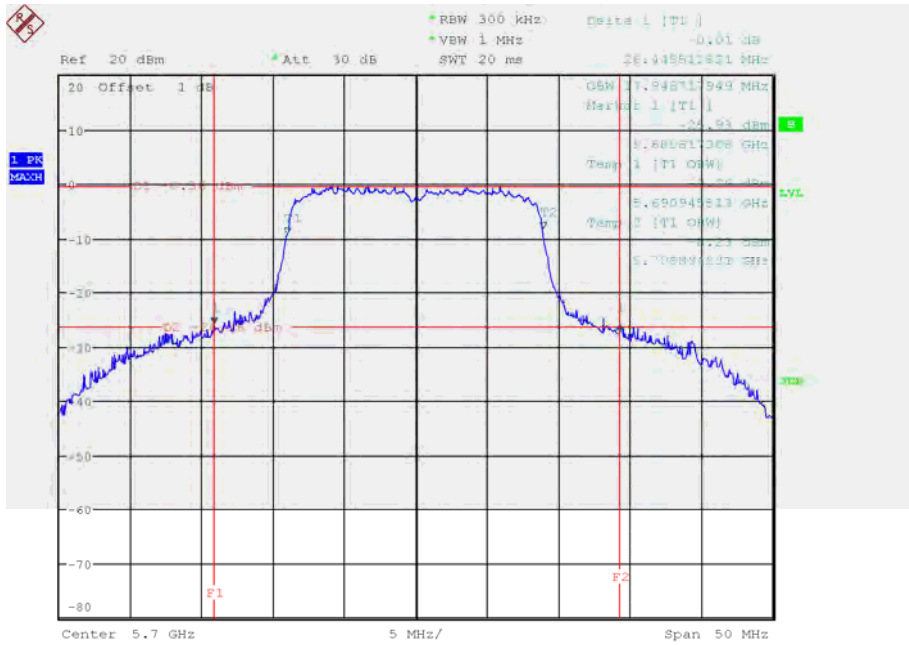


CH116



Date: 20.JAN.2014 16:07:49

CH140

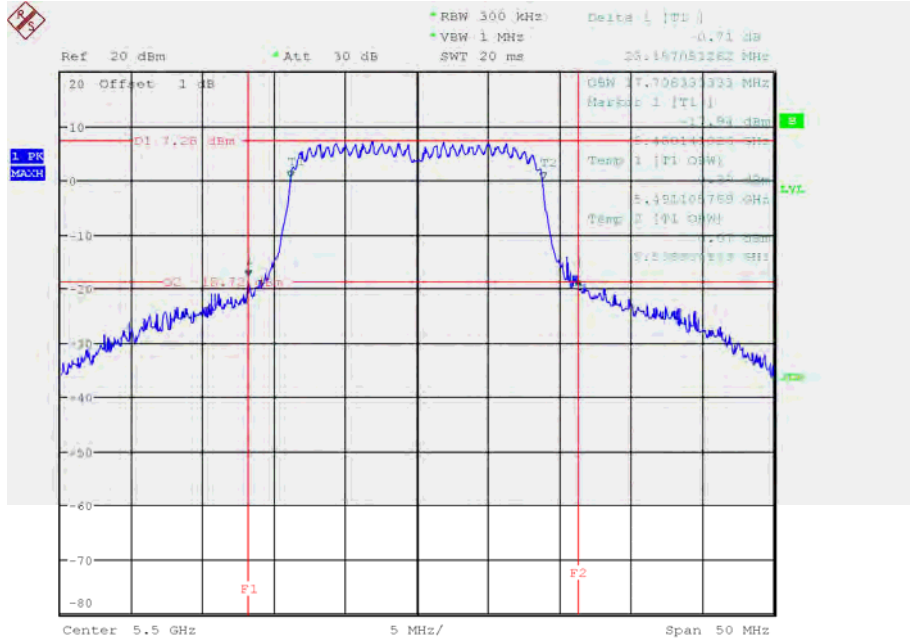


Date: 20.JAN.2014 16:10:26



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

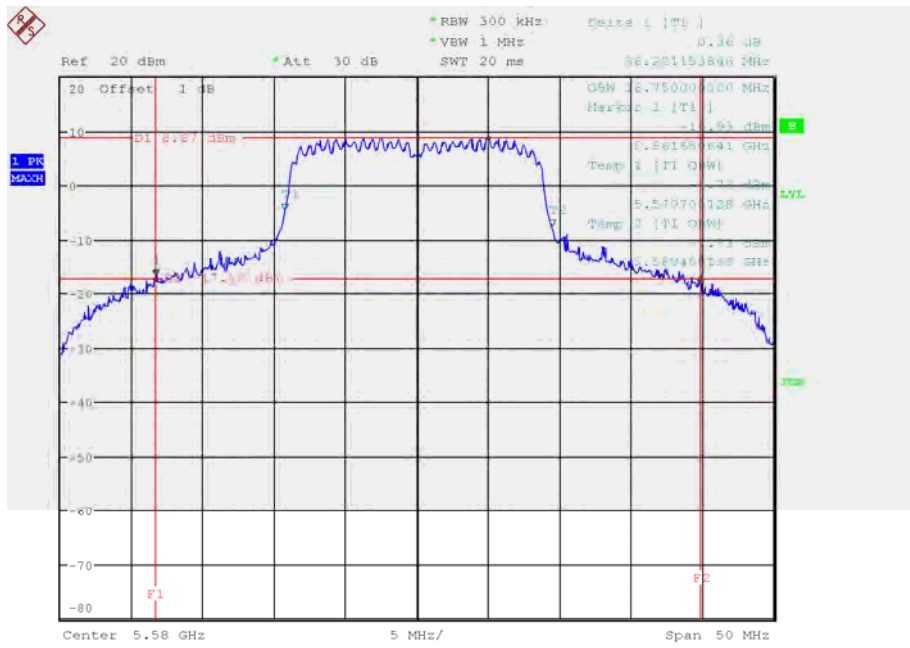
CH100



Date: 20.JAN.2014 11:10:44

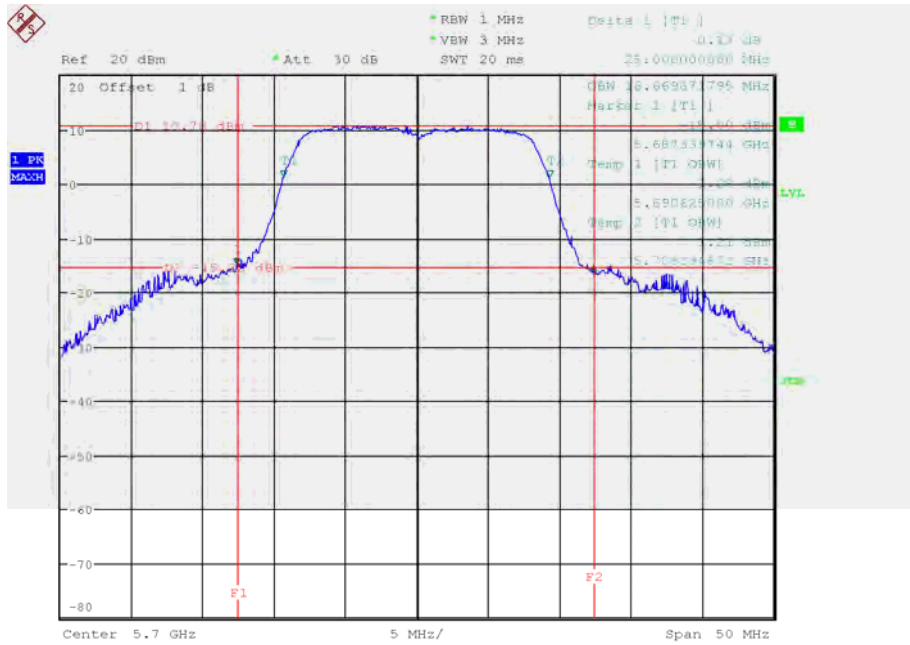


CH116



Date: 20.JAN.2014 12:50:53

CH140

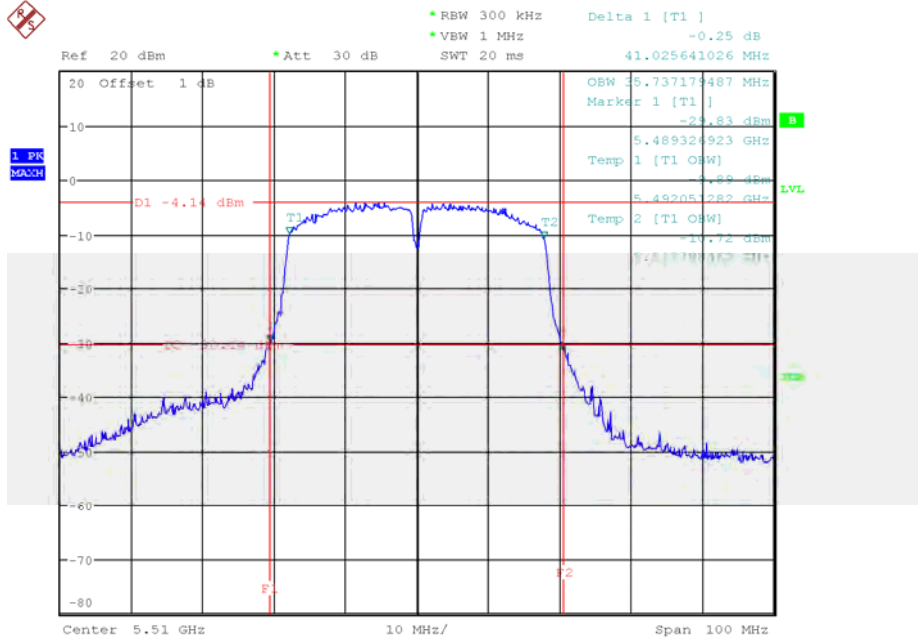


Date: 20.JAN.2014 12:55:36



Test Mode : Band 3/TX N40 Mode\_CH102/110/134-ANT 1

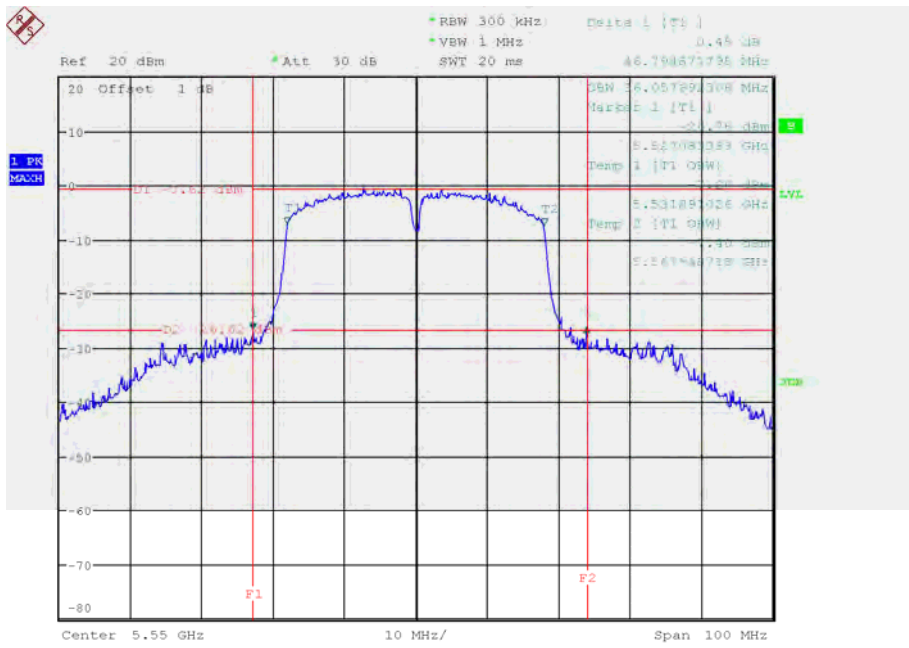
### CH102



Date: 20.JAN.2014 15:17:18

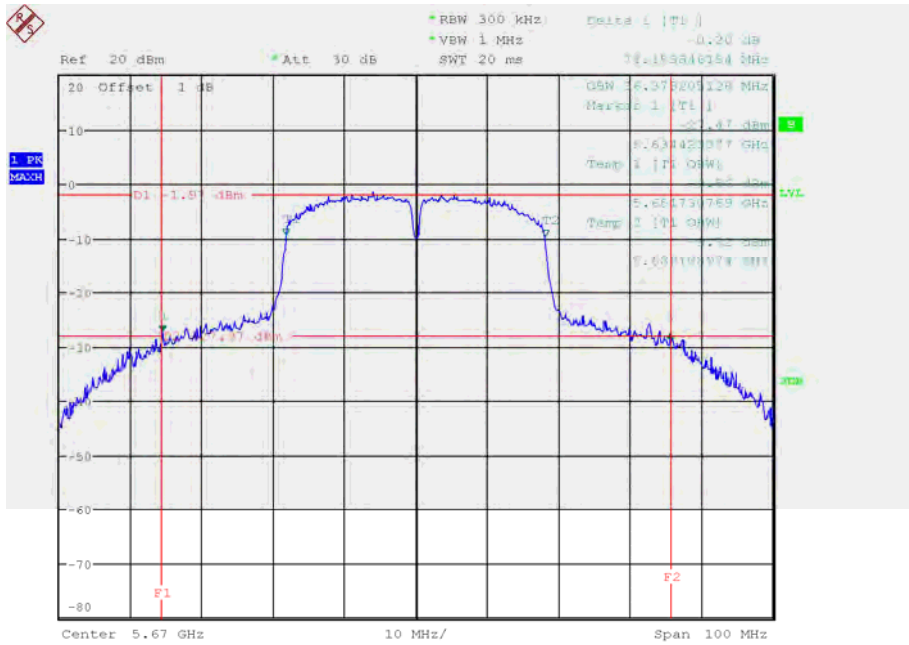


CH110



Date: 20.JAN.2014 15:24:51

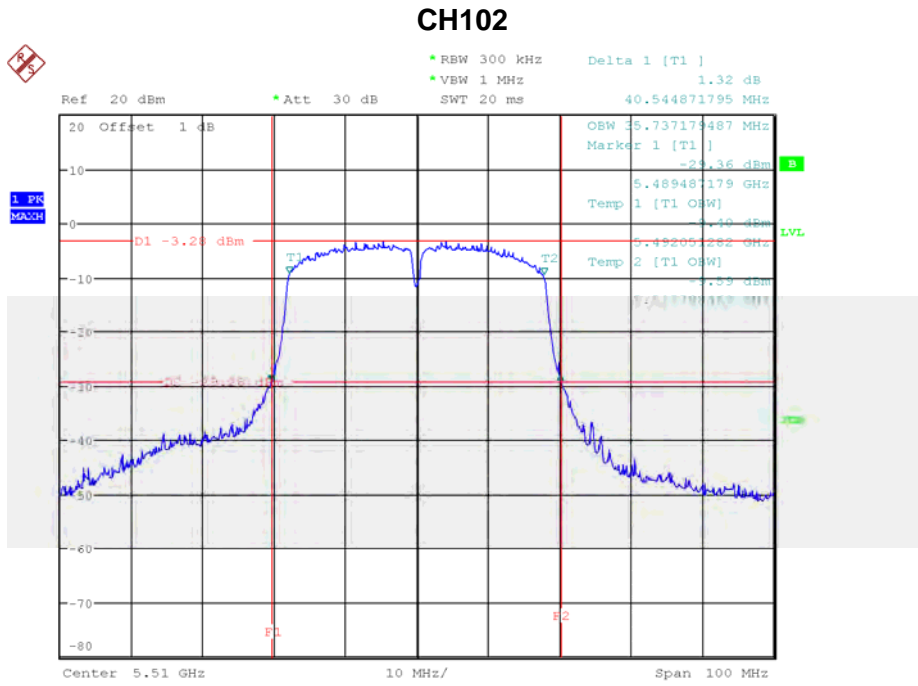
CH134



Date: 20.JAN.2014 15:30:11



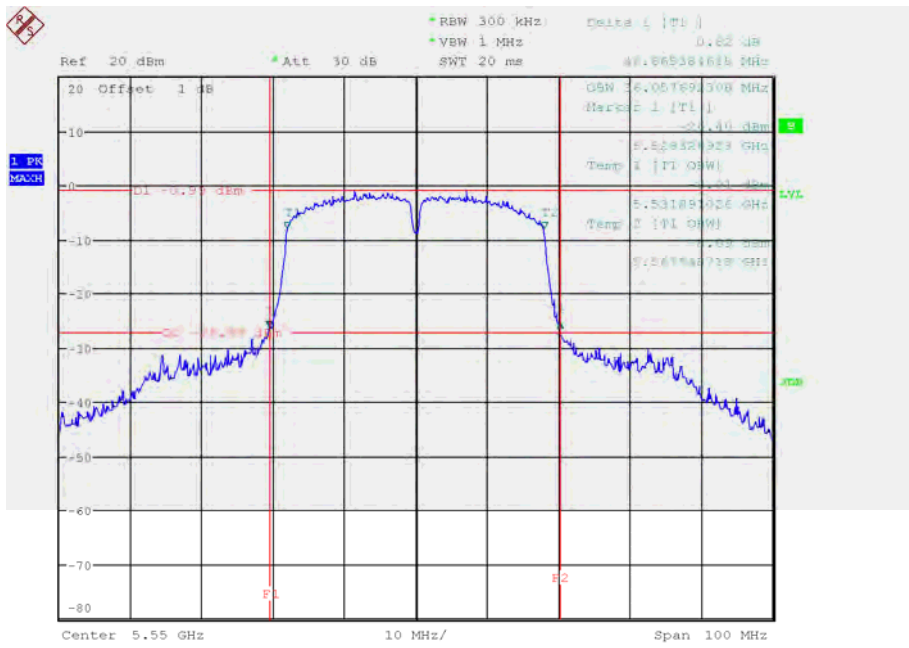
Test Mode : Band 3/TX N40 Mode\_CH102/110/134-ANT 2



Date: 20.JAN.2014 15:16:03

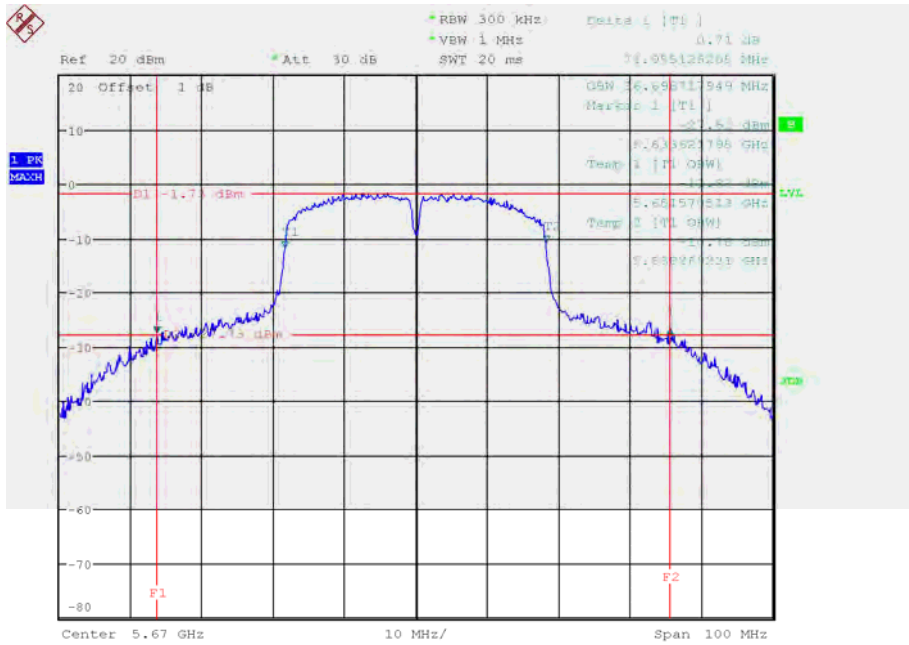


### CH110



Date: 20.JAN.2014 15:23:36

### CH134



Date: 20.JAN.2014 15:28:59



**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**

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

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

- b. 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	15.98	17.00	0.0501
CH40	5200	15.61	17.00	0.0501
CH48	5240	15.32	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	13.21	17.00	0.0501
CH40	5200	13.25	17.00	0.0501
CH48	5240	13.23	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	13.97	17.00	0.0501
CH40	5200	14.15	17.00	0.0501
CH48	5240	14.35	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	16.62	17.00	0.0501
CH40	5200	16.73	17.00	0.0501
CH48	5240	16.84	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	12.56	17.00	0.0501
CH46	5230	13.16	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	14.02	17.00	0.0501
CH46	5230	14.26	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	16.36	17.00	0.0501
CH46	5230	16.76	17.00	0.0501



<b>Test Mode :Band 2/TX A Mode</b>				
<b>Test Channel</b>	<b>Frequency (MHz)</b>	<b>Conducted Output Power (dBm)</b>	<b>LIMIT (dBm)</b>	<b>LIMIT (W)</b>
CH52	5260	17.40	24	0.251
CH56	5280	17.86	24	0.251
CH64	5320	14.62	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	14.91	24	0.251
CH56	5280	16.68	24	0.251
CH64	5320	15.12	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	16.54	24	0.251
CH56	5280	15.12	24	0.251
CH64	5320	16.03	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	18.81	24	0.251
CH56	5280	18.98	24	0.251
CH64	5320	18.61	24	0.251