



# FCC RADIO TEST REPORT

Applicant : Ring LLC  
Address : 1523 26th Street, Santa Monica, CA 90404 United States  
Equipment : Chime Pro (2nd Generation)  
Model No. : 5UM2E5  
Trade Name : Ring  
FCC ID : 2AEUPBHACP021

**I HEREBY CERTIFY THAT :**

The sample was received on Aug. 14, 2019 and the testing was completed on Oct. 25, 2019 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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### History of this test report

Report No.	Issue Date	Description
TEF1908104	Oct. 30, 2019	Original



# 1. Summary of Test Procedure and Test Results

## 1.1 Applicable Standards

**ANSI C63.10:2013**

**FCC Rules and Regulations Part 15 Subpart C §15.247**

FCC Rule	Description of Test	Result
15.203	. Antenna Requirement	PASS
15.207	. AC Power Line Conducted Emission	PASS
15.209 15.205	. Radiated Spurious Emission	PASS
15.247(d)	. Conducted Spurious Emission	PASS
15.247(a)(2)	. 6dB Bandwidth	PASS
15.247(b)	. Maximum Peak and Average Output Power	PASS
15.247(e)	. Power Spectral Density	PASS
2.1091	. Radio Frequency Exposure	PASS

\*The lab has lowered the uncertainty risk of test equipment, environment, and staff technicians according to ISO-IEC17025. Therefore we define test result as compliant when it complies with the standard without further evaluation of test result uncertainty.

\*This EUT has been also tested and compiled with the requirement of FCC Part 15, Subpart B, recorded in a separate test report(TEFD1908104).



## 2. Test Configuration of Equipment under Test

### 2.1 Feature of Equipment

Frequency Range	BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
Modulation Type	BLE: GFSK 802.11b: CCK, DQPSK, DBPSK 802.11g/n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, DTS
Data Rate	BLE: GFSK: 1Mbps WLAN: 2.4G 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 ,VHT20,VHT40 5G 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	FPC Antenna(BLE) FPCB Antenna(WLAN)
Antenna Gain	BLE: 2400-2483.5MHz: ANT A: 2.69dBi WLAN: 2400-2483.5MHz: ANT A: 3.55dBi, ANT B: 3.37dBi 5150-5250MHz: ANT A: 4.67dBi, ANT B: 2.49dBi 5725-5850MHz: ANT A: 4.2dBi, ANT B: 4.99dBi

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

2. 802.11ac VHT20, VHT40 and VHT80 support beamforming.



### 2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT20, VHT20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
<b>*01</b>	<b>2412</b>	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	<b>*11</b>	<b>2462</b>
<b>*06</b>	<b>2437</b>	---	---

802.11n HT40, VHT40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
<b>*03</b>	<b>2422</b>	<b>*09</b>	<b>2452</b>
04	2427	---	---
05	2432	---	---
<b>*06</b>	<b>2437</b>	---	---

Note: Channels remarked \* are selected to perform test.



### 2.3 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- b. The complete test system included Remote workstation and EUT for RF test. The Remote workstation included Notebook.
- c. An executive program, " QRCT ver.3.0.276.0 " under Windows OS system was executed to transmit and receive data via WLAN. (Non BeamForming)
- d. An executive program, " iwpriv command " under Windows OS system was executed to transmit and receive data via WLAN. (BeamForming)
- e. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b (1Mbps), Non BeamForming
2	802.11g (6Mbps) , Non BeamForming
3	VHT20 (6.5Mbps) , Non BeamForming
4	VHT40 (13.5Mbps) , Non BeamForming
5	VHT20 (6.5Mbps) , BeamForming
6	VHT40 (13.5Mbps) , BeamForming
caused "Test Mode 1, 5" generated the worst case, it was reported as the final data.	
Radiation Emissions (30MHz ~ 1GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), Non BeamForming
2	802.11g (6Mbps) , Non BeamForming
3	VHT20 (6.5Mbps) , Non BeamForming
4	VHT40 (13.5Mbps) , Non BeamForming
5	VHT20 (6.5Mbps) , BeamForming
6	VHT40 (13.5Mbps) , BeamForming
caused "Test Mode 1, 5" generated the worst case, they were reported as the final data.	
Radiation Emissions (1GHz ~ 25GHz)	
Test Mode	Operating Description
1	802.11b (1Mbps), Non BeamForming
2	802.11g (6Mbps) , Non BeamForming
3	VHT20 (6.5Mbps) , Non BeamForming
4	VHT40 (13.5Mbps) , Non BeamForming
5	VHT20 (6.5Mbps) , BeamForming
6	VHT40 (13.5Mbps) , BeamForming
caused "Test Mode 1~6" generated the worst case, they were reported as the final data.	

### 2.4 Description of Test System

N/A





## 2.5 General Information of Test

Test Site	<b>CerpPASS Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1079, TW1439
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 25,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

Test Item	Test Site	Finish Date	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2019/10/25	22°C / 63%	Nick Guan
Radiated Emissions	3M02-NK	2019/10/25	22°C / 64%	Vic Yeh
RF Conduction	CON01-NK	2019/10/25	24°C / 43%	Leon Huang

## 2.6 Measurement Uncertainty

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±1.60dB
Radiated Spurious Emission(9KHz~30MHz)	±3.405dB
Radiated Spurious Emission(30MHz~1GHz)	±5.326dB
Radiated Spurious Emission(1GHz~25GHz)	±5.918dB
Conducted Spurious Emission	±2.156dB
6dB Bandwidth	±4.401%
20dB Bandwidth	±4.40%
Occupied Bandwidth	±4.41%
Peak Output Power(Conducted Power Meter)	±1.31dB
Dwell Time	±0.11%
Power Spectral Density	±2.146dB
Duty Cycle	±0.17%



### 3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	369	2019/03/29	2020/03/28
Active Loop Antenna	EMCO	6507	40855	2019/05/24	2020/05/23
Horn Antenna	EMCO	3115	31589	2019/04/01	2020/03/31
Horn Antenna	EMCO	3116	31974	2019/09/17	2020/09/16
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2019/05/14	2020/05/13
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Preamplifier	EM Electronics corp.	EM330	60660	2019/03/11	2020/03/10
Preamplifier	Agilent	8449B	3008A01954	2019/03/11	2020/03/10
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2018/10/31	2019/10/30
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2019/04/09	2020/04/08
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1316	2019/09/20	2020/09/19
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805443/4	2019/05/20	2020/05/19
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805796/4	2019/05/20	2020/05/19
Cable-8m(1G-40G)	HUBER SUHNER	SUCOFLEX 100	805795/4	2019/05/20	2020/05/19
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2019/03/28	2020/03/27
Bluetooth Tester	ROHDE & SCHWARZ	CBT	101133	2019/04/07	2020/04/06
Attenuator	KEYSIGHT	8491B	MY39250703	2019/09/12	2020/09/11
TEMP & HUMIDITY CHAMBER	T-MACHINE	TMJ-9712	T-12-040111	2019/08/28	2020/08/27
Power Meter	Anritsu	ML2495A	1224005	2019/4/11	2020/04/10
Power Sensor	Anritsu	MA2411B	1207295	2019/04/09	2020/04/08

Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	100443	2019/03/29	2020/03/28
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-568	2019/03/15	2020/03/14
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2019/03/12	2020/03/11
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2019/03/14	2020/03/13
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



## 4. Antenna Requirements

### 4.1 Antenna Construction and Directional Gain

Antenna Type	FPCB Antenna
Antenna Gain	2412-2462MHz: ANT A: 3.55dBi, ANT B: 3.37dBi 5150MHz-5250MHz: ANT A: 4.67dBi, ANT B: 2.49dBi 5725MHz -5850MHz: ANT A: 4.2dBi, ANT B: 4.99dBi

#### **(Non-Beamforming)**

2412-2462MHz
For Power directional gain= $G_{ant}= 3.55$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 6.47 (dBi)
5180MHz~5240MHz
For Power directional gain= $G_{ant}= 4.67$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 6.66 (dBi)
5745MHz~5825MHz
For Power directional gain= $G_{ant}= 4.99$ dBi For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ = 7.61 (dBi)

#### **(Beamforming)**

2412-2462MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 6.47$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 6.47$ (dBi)
5150MHz -5250MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 6.66$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 6.66$ (dBi)
5725MHz -5850MHz
For Power directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.61$ (dBi) For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}] = 7.61$ (dBi)



## 5. Test of AC Power Line Conducted Emission

### 5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.4-2014. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

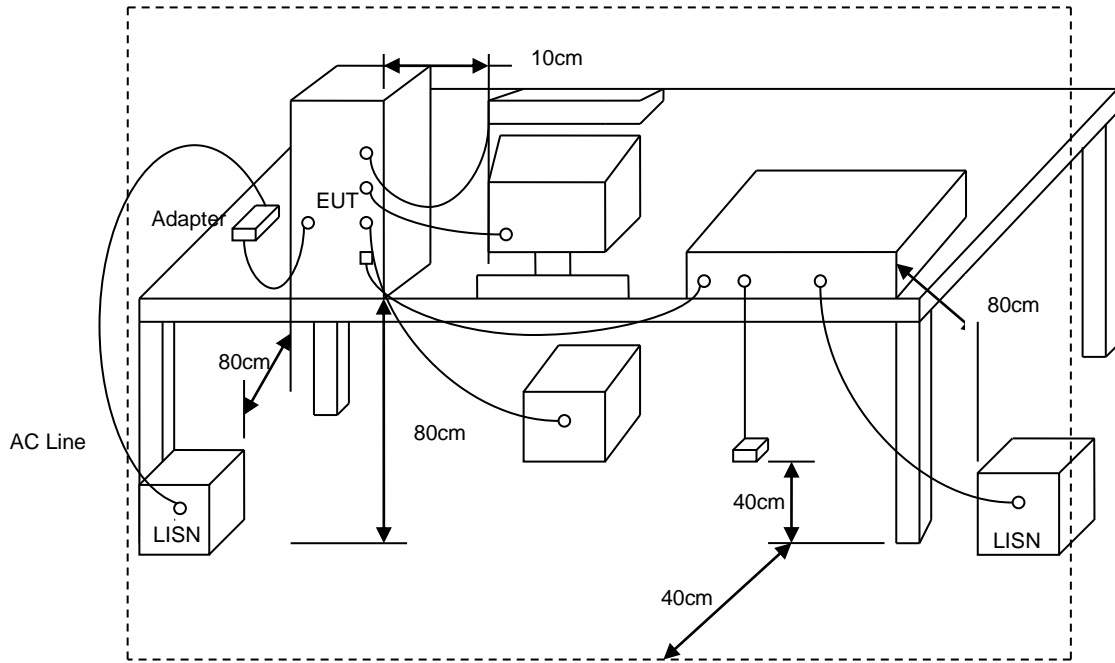
\*Decreases with the logarithm of the frequency.

### 5.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



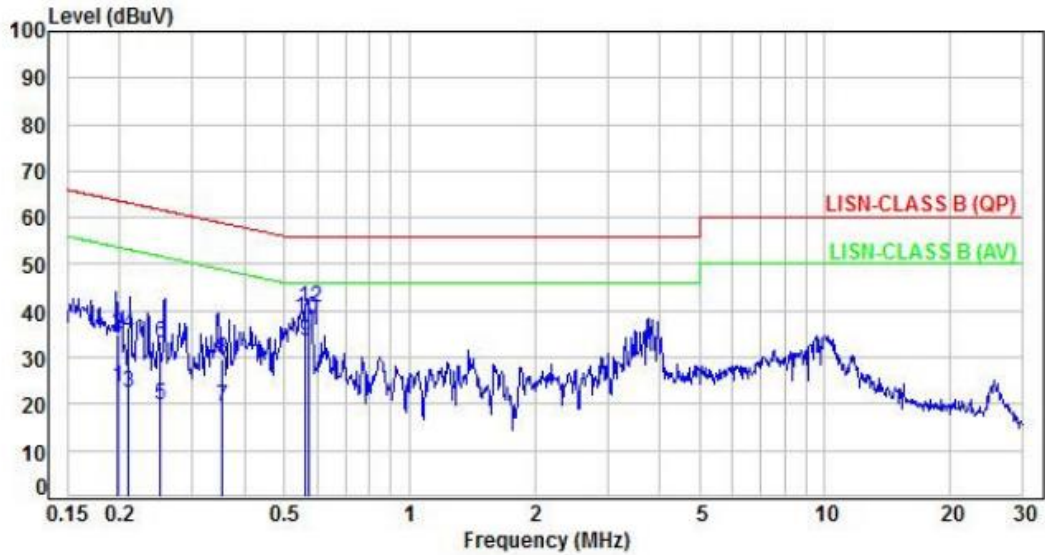
### 5.3 Typical Test Setup





5.4 Test Result and Data

Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 1		:

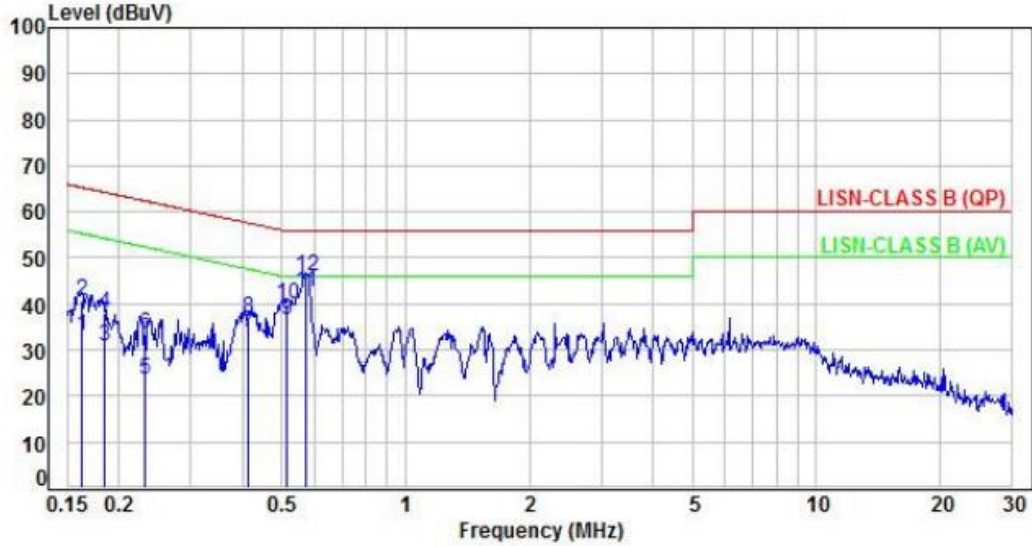


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.20	9.92	13.63	23.55	53.73	-30.18	Average	P
2	0.20	9.92	25.20	35.12	63.73	-28.61	QP	P
3	0.21	9.92	12.53	22.45	53.23	-30.78	Average	P
4	0.21	9.92	25.25	35.17	63.23	-28.06	QP	P
5	0.25	9.92	10.03	19.95	51.72	-31.77	Average	P
6	0.25	9.92	23.30	33.22	61.72	-28.50	QP	P
7	0.35	9.94	9.31	19.25	48.90	-29.65	Average	P
8	0.35	9.94	19.79	29.73	58.90	-29.17	QP	P
9	0.56	9.95	23.53	33.48	46.00	-12.52	Average	P
10	0.56	9.95	28.43	38.38	56.00	-17.62	QP	P
11	0.57	9.95	25.75	35.70	46.00	-10.30	Average	P
12	0.57	9.95	30.64	40.59	56.00	-15.41	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISM or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:

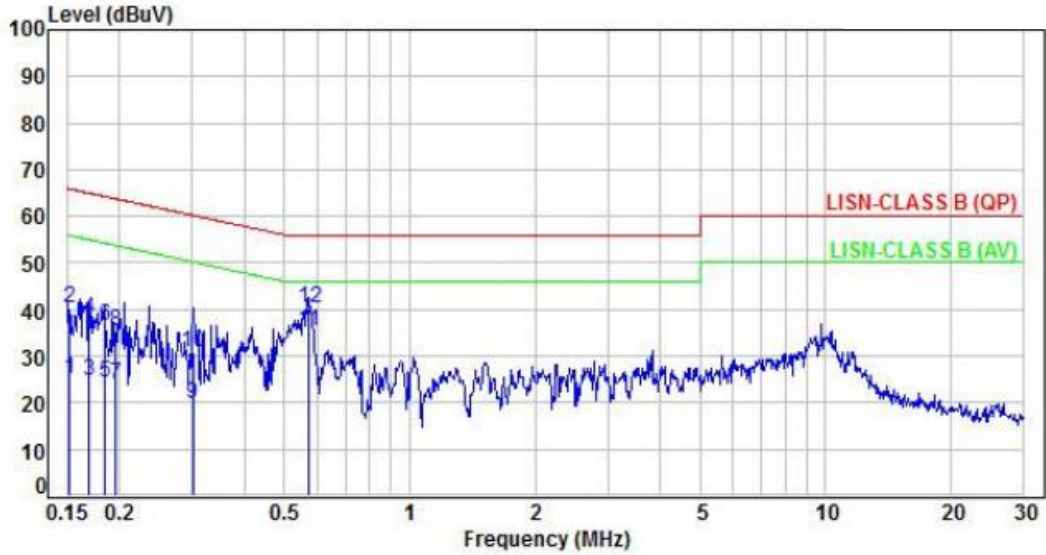


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV)	Limit (dBUV)	Margin (dB)	Detector	P/F
1	0.16	9.95	23.18	33.13	55.31	-22.18	Average	P
2	0.16	9.95	30.68	40.63	65.31	-24.68	QP	P
3	0.18	9.95	20.83	30.78	54.30	-23.52	Average	P
4	0.18	9.95	27.94	37.89	64.30	-26.41	QP	P
5	0.23	9.95	13.61	23.56	52.37	-28.81	Average	P
6	0.23	9.95	23.41	33.36	62.37	-29.01	QP	P
7	0.41	9.96	23.90	33.86	47.59	-13.73	Average	P
8	0.41	9.96	27.06	37.02	57.59	-20.57	QP	P
9	0.51	9.96	26.49	36.45	46.00	-9.55	Average	P
10	0.51	9.96	29.89	39.85	56.00	-16.15	QP	P
11	0.57	9.96	32.47	42.43	46.00	-3.57	Average	P
12	0.57	9.96	36.20	46.16	56.00	-9.84	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: AC 120V / 60Hz	Pol/Phase	: LINE
Test Mode	: Mode 5		:



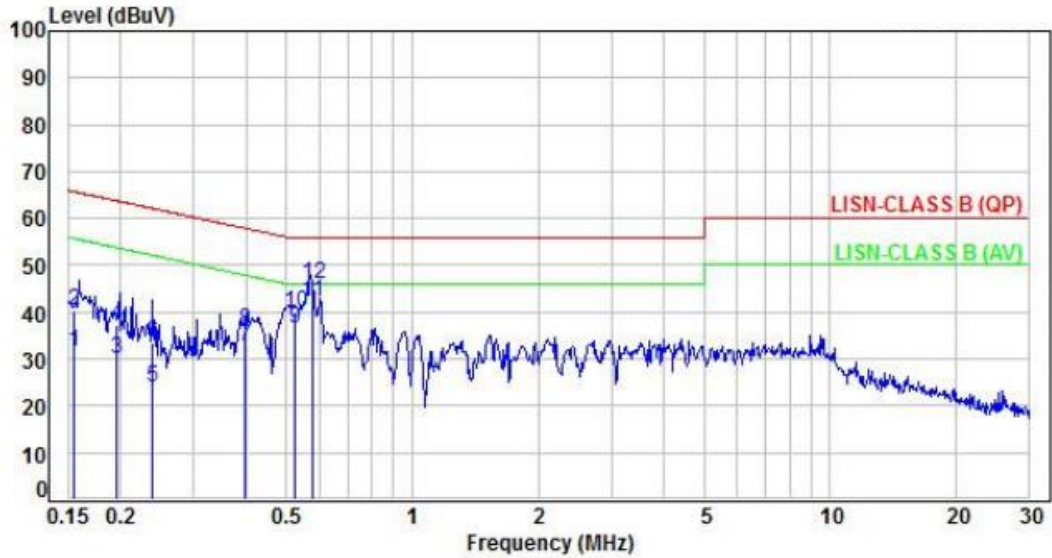
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.92	15.30	25.22	55.93	-30.71	Average	P
2	0.15	9.92	30.28	40.20	65.93	-25.73	QP	P
3	0.17	9.92	14.64	24.56	54.98	-30.42	Average	P
4	0.17	9.92	28.28	38.20	64.98	-26.78	QP	P
5	0.18	9.92	14.26	24.18	54.28	-30.10	Average	P
6	0.18	9.92	26.58	36.50	64.28	-27.78	QP	P
7	0.20	9.92	14.11	24.03	53.78	-29.75	Average	P
8	0.20	9.92	25.60	35.52	63.78	-28.26	QP	P
9	0.30	9.93	9.91	19.84	50.23	-30.39	Average	P
10	0.30	9.93	21.05	30.98	60.23	-29.25	QP	P
11	0.57	9.95	25.55	35.50	46.00	-10.50	Average	P
12	0.57	9.95	30.42	40.37	56.00	-15.63	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss





Power	: AC 120V / 60Hz	Pol/Phase	: NEUTRAL
Test Mode	: Mode 5		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.15	9.95	21.49	31.44	55.74	-24.30	Average	P
2	0.15	9.95	30.50	40.45	65.74	-25.29	QP	P
3	0.20	9.95	20.18	30.13	53.75	-23.62	Average	P
4	0.20	9.95	27.14	37.09	63.75	-26.66	QP	P
5	0.24	9.95	14.00	23.95	52.15	-28.20	Average	P
6	0.24	9.95	23.58	33.53	62.15	-28.62	QP	P
7	0.40	9.96	22.60	32.56	47.90	-15.34	Average	P
8	0.40	9.96	26.14	36.10	57.90	-21.80	QP	P
9	0.52	9.96	26.65	36.61	46.00	-9.39	Average	P
10	0.52	9.96	30.07	40.03	56.00	-15.97	QP	P
11	0.58	9.96	32.43	42.39	46.00	-3.61	Average	P
12	0.58	9.96	36.07	46.03	56.00	-9.97	QP	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



## 6. Test of Radiated Spurious Emission

### 6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
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

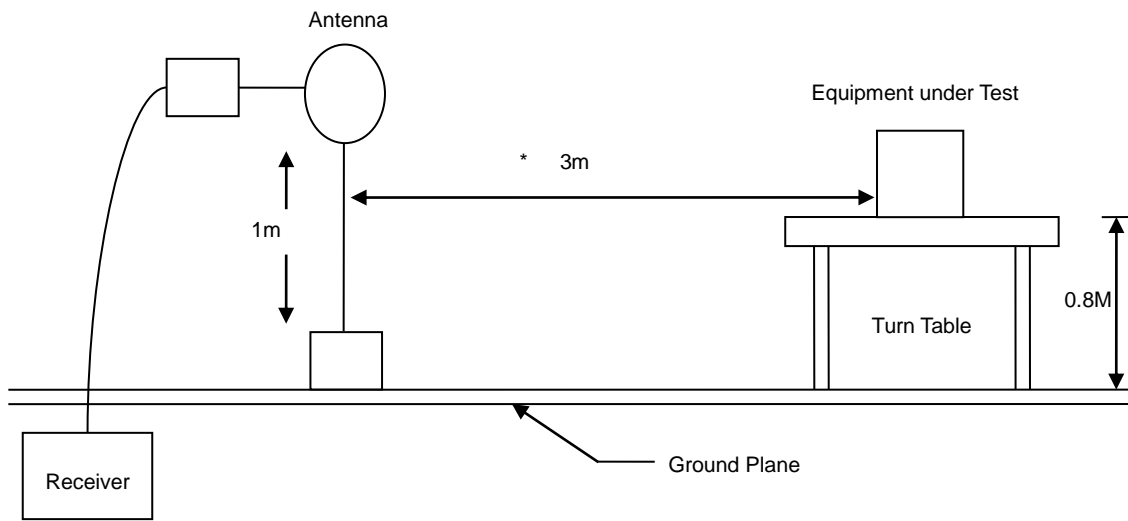
### 6.2 Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

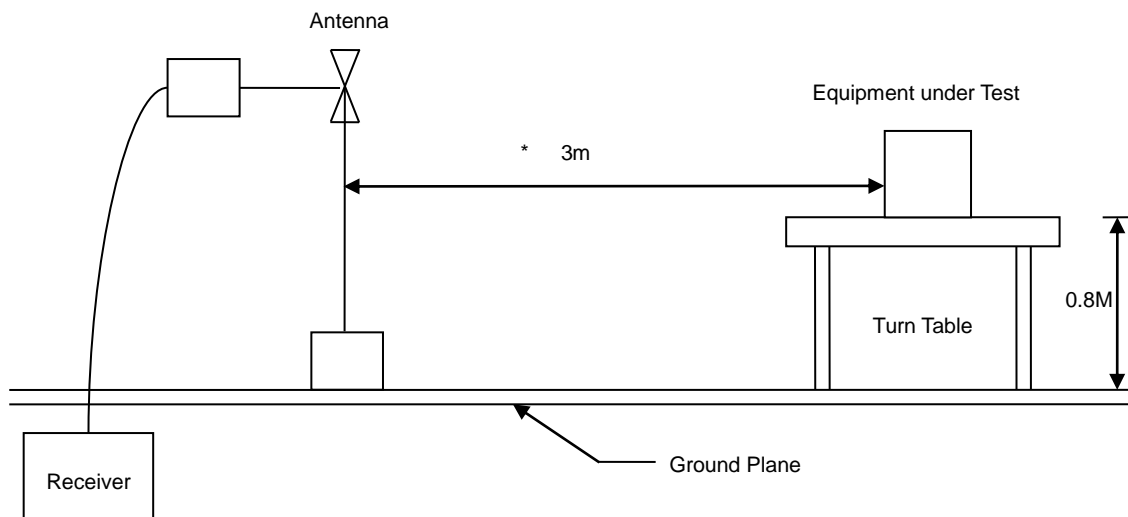


### 6.3 Typical Test Setup

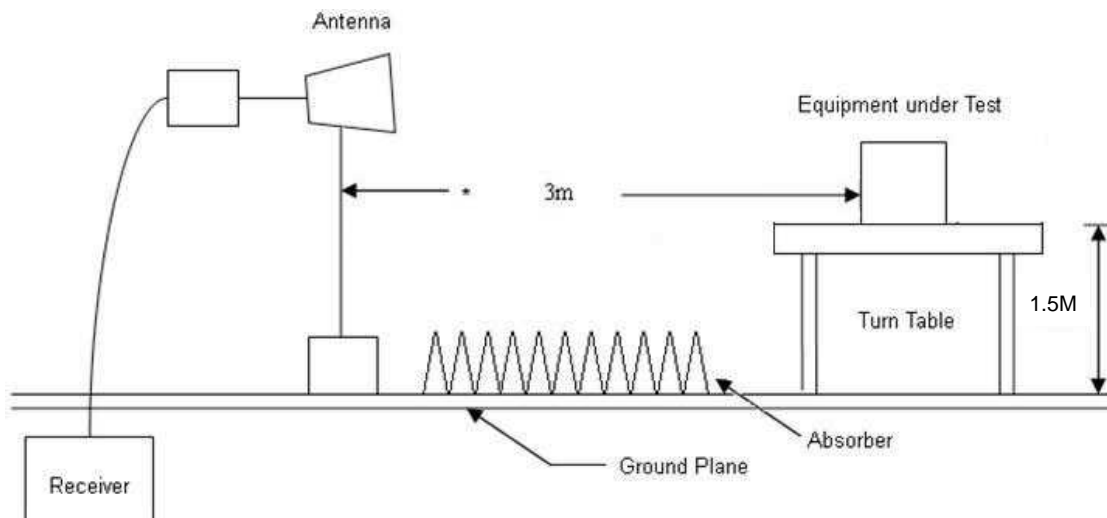
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup



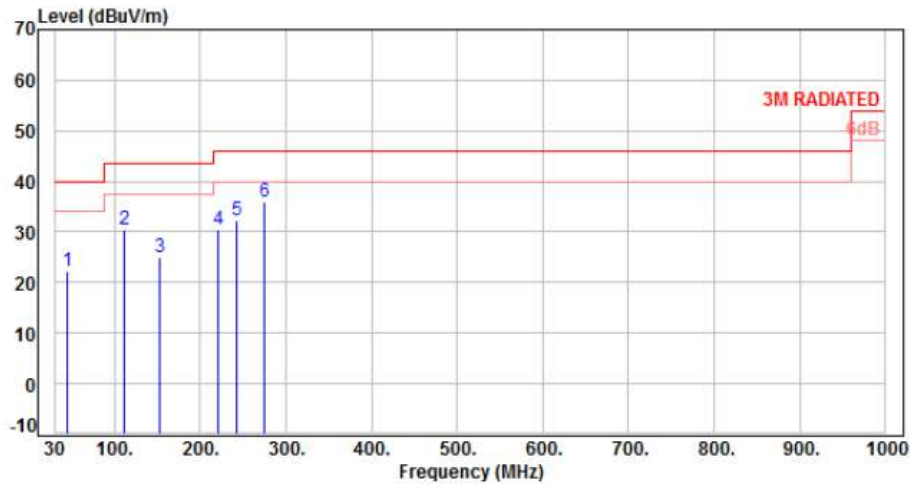


### 6.4 Test Result and Data (9KHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

### 6.5 Test Result and Data (30MHz ~ 1GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1		:

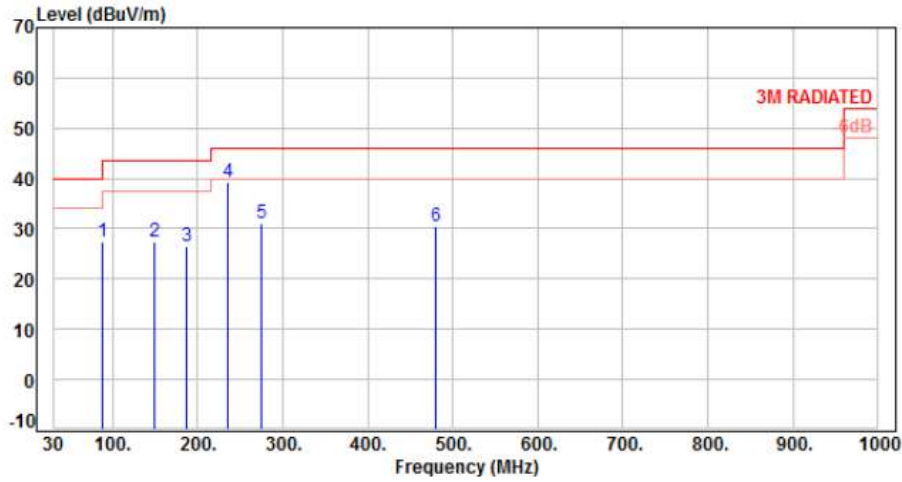


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	45.56	-9.32	31.46	22.14	40.00	-17.86	Peak	100	0	P
2	110.48	-12.44	42.87	30.43	43.50	-13.07	Peak	100	0	P
3	152.76	-9.58	34.44	24.86	43.50	-18.64	Peak	100	0	P
4	220.61	-11.93	42.30	30.37	46.00	-15.63	Peak	100	0	P
5	243.45	-10.48	42.66	32.18	46.00	-13.82	Peak	100	0	P
6	274.77	-9.20	45.00	35.80	46.00	-10.20	Peak	100	0	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1		:

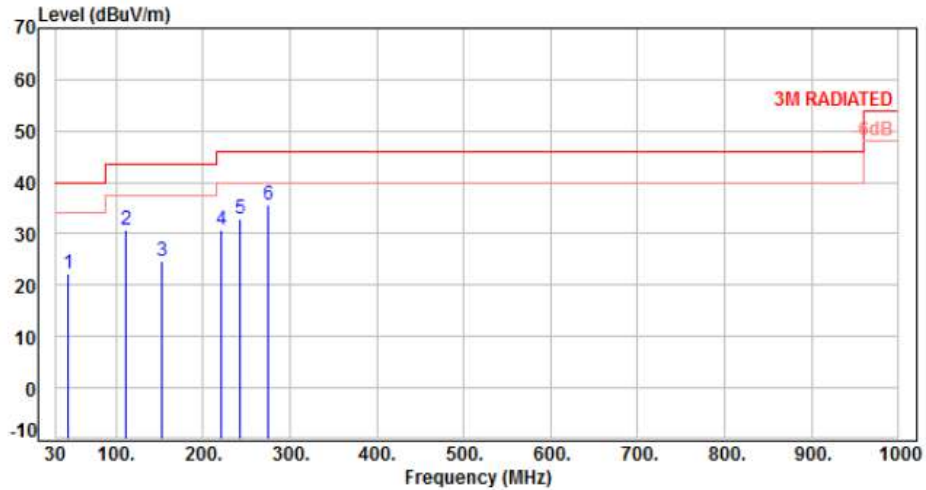


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	88.29	-15.46	43.03	27.57	43.50	-15.93	Peak	100	0	P
2	149.33	-9.51	37.07	27.56	43.50	-15.94	Peak	100	0	P
3	187.66	-11.44	37.92	26.48	43.50	-17.02	Peak	100	0	P
4	235.22	-10.80	50.07	39.27	46.00	-6.73	Peak	100	0	P
5	274.49	-9.21	40.20	30.99	46.00	-15.01	Peak	100	0	P
6	480.16	-3.98	34.38	30.40	46.00	-15.60	Peak	100	0	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5		:

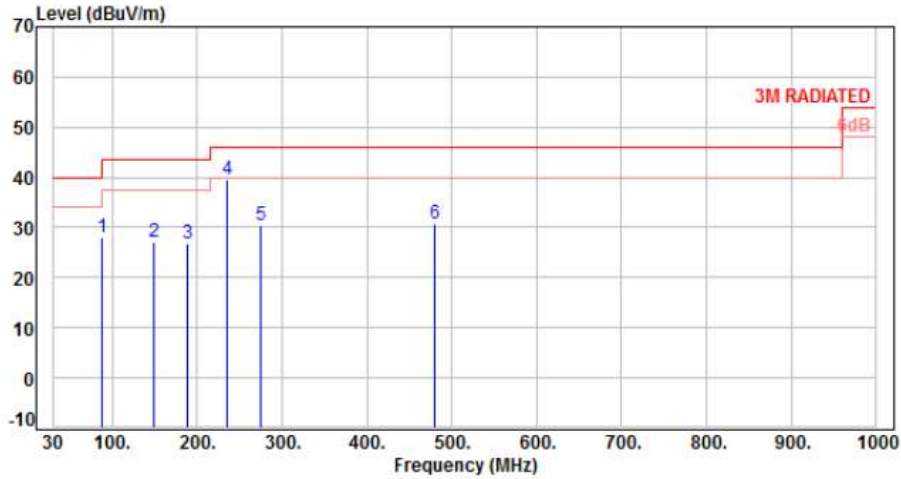


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	45.56	-9.32	31.46	22.14	40.00	-17.86	Peak	100	0	P
2	110.63	-12.44	43.28	30.84	43.50	-12.66	Peak	100	0	P
3	152.48	-9.55	34.13	24.58	43.50	-18.92	Peak	100	0	P
4	220.86	-11.93	42.67	30.74	46.00	-15.26	Peak	100	0	P
5	243.32	-10.48	43.32	32.84	46.00	-13.16	Peak	100	0	P
6	274.47	-9.21	44.77	35.56	46.00	-10.44	Peak	100	0	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5		:



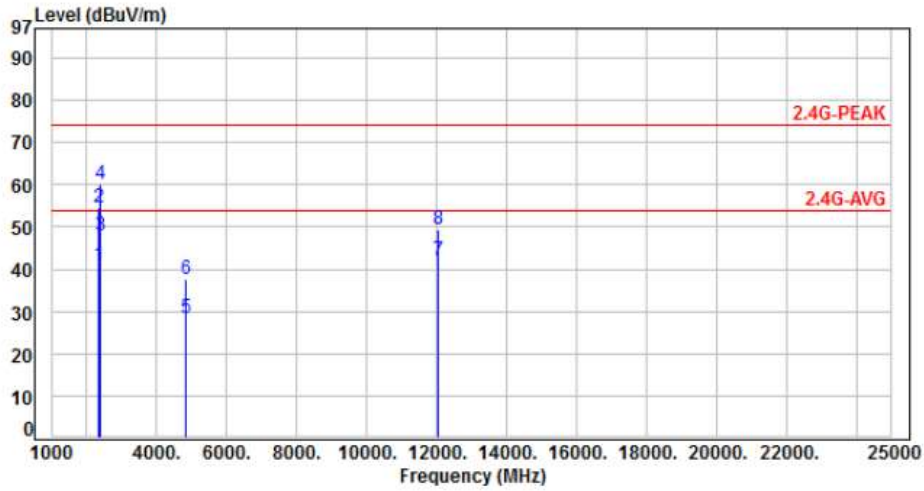
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	88.75	-15.50	43.47	27.97	43.50	-15.53	Peak	100	0	P
2	149.63	-9.51	36.72	27.21	43.50	-16.29	Peak	100	0	P
3	187.82	-11.45	38.26	26.81	43.50	-16.69	Peak	100	0	P
4	235.63	-10.78	50.44	39.66	46.00	-6.34	Peak	100	0	P
5	274.15	-9.22	39.62	30.40	46.00	-15.60	Peak	100	0	P
6	480.61	-3.96	34.84	30.88	46.00	-15.12	Peak	100	0	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.6 Test Result and Data (1GHz ~ 25GHz)

Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH01		:



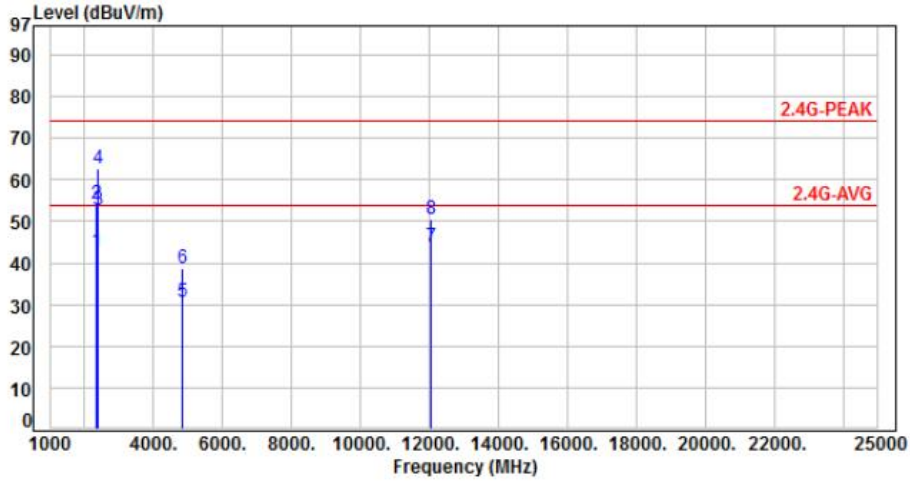
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	58.99	40.88	54.00	-13.12	Average	100	260	P
2	2352.00	-18.11	72.65	54.54	74.00	-19.46	Peak	100	260	P
3	2390.00	-18.17	66.29	48.12	54.00	-5.88	Average	100	260	P
4	2390.00	-18.17	78.32	60.15	74.00	-13.85	Peak	100	260	P
5	4824.00	-12.03	40.45	28.42	54.00	-25.58	Average	100	195	P
6	4824.00	-12.03	49.83	37.80	74.00	-36.20	Peak	100	195	P
7	12060.00	-3.59	45.63	42.04	54.00	-11.96	Average	100	155	P
8	12060.00	-3.59	52.85	49.26	74.00	-24.74	Peak	100	155	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH01		:

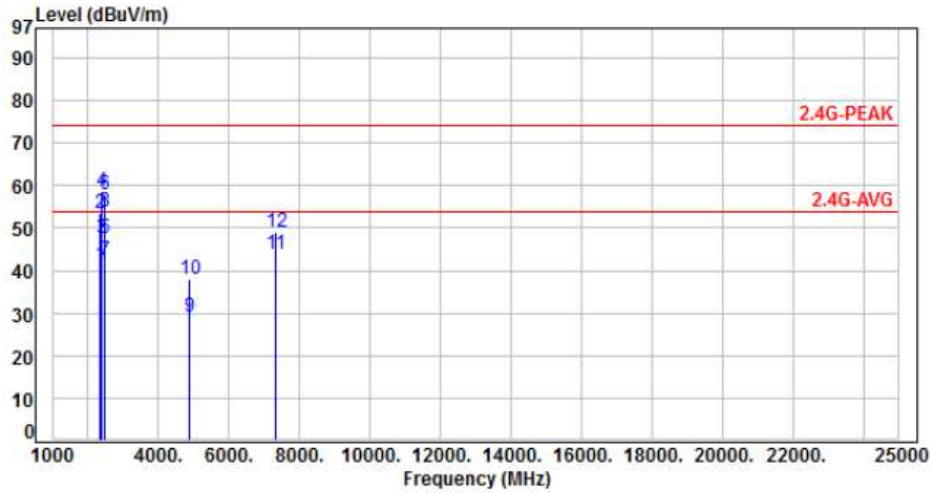


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	60.73	42.62	54.00	-11.38	Average	140	345	P
2	2352.00	-18.11	72.40	54.29	74.00	-19.71	Peak	140	345	P
3	2390.00	-18.17	70.90	52.73	54.00	-1.27	Average	140	345	P
4	2390.00	-18.17	80.73	62.56	74.00	-11.44	Peak	140	345	P
5	4824.00	-12.03	42.48	30.45	54.00	-23.55	Average	110	232	P
6	4824.00	-12.03	50.80	38.77	74.00	-35.23	Peak	110	232	P
7	12060.00	-3.59	47.32	43.73	54.00	-10.27	Average	100	305	P
8	12060.00	-3.59	54.02	50.43	74.00	-23.57	Peak	100	305	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH06		:

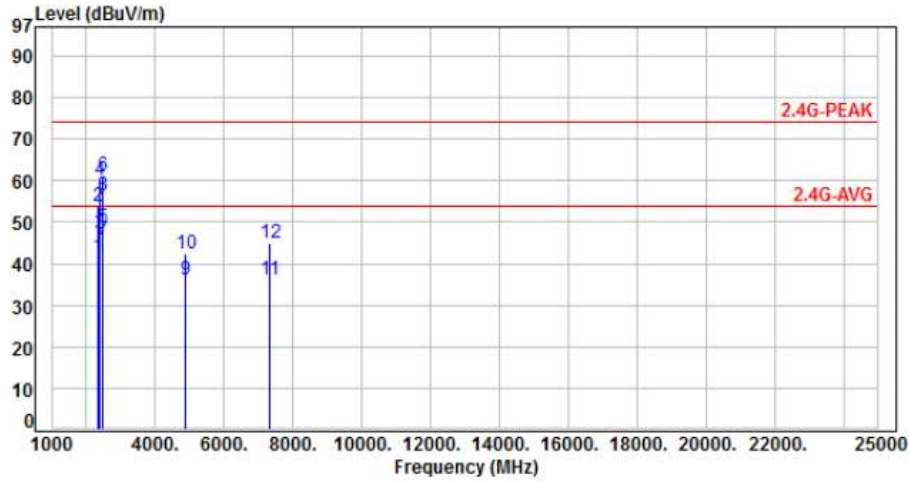


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	59.35	41.24	54.00	-12.76	Average	100	325	P
2	2352.00	-18.11	71.69	53.58	74.00	-20.42	Peak	100	325	P
3	2390.00	-18.17	65.62	47.45	54.00	-6.55	Average	100	325	P
4	2390.00	-18.17	76.87	58.70	74.00	-15.30	Peak	100	325	P
5	2483.50	-17.85	65.59	47.74	54.00	-6.26	Average	100	345	P
6	2483.50	-17.85	75.79	57.94	74.00	-16.06	Peak	100	345	P
7	2496.00	-17.82	60.06	42.24	54.00	-11.76	Average	100	325	P
8	2496.00	-17.82	71.80	53.98	74.00	-20.02	Peak	100	325	P
9	4874.00	-11.87	41.16	29.29	54.00	-24.71	Average	100	185	P
10	4874.00	-11.87	50.02	38.15	74.00	-35.85	Peak	100	185	P
11	7311.00	-7.63	51.41	43.78	54.00	-10.22	Average	100	160	P
12	7311.00	-7.63	56.60	48.97	74.00	-25.03	Peak	100	160	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH06		:

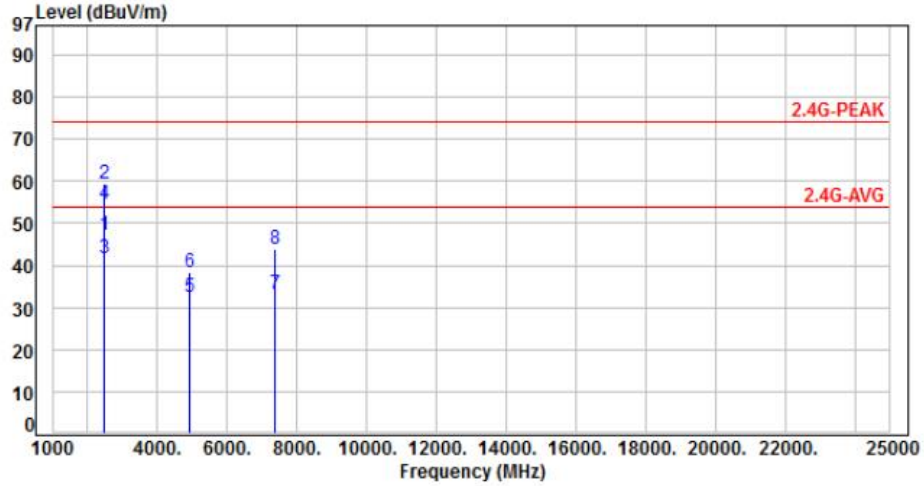


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	59.92	41.81	54.00	-12.19	Average	100	310	P
2	2352.00	-18.11	72.07	53.96	74.00	-20.04	Peak	100	310	P
3	2390.00	-18.17	65.28	47.11	54.00	-6.89	Average	100	310	P
4	2390.00	-18.17	78.26	60.09	74.00	-13.91	Peak	100	310	P
5	2483.50	-17.85	66.45	48.60	54.00	-5.40	Average	275	330	P
6	2483.50	-17.85	79.21	61.36	74.00	-12.64	Peak	275	330	P
7	2496.00	-17.82	63.53	45.71	54.00	-8.29	Average	100	310	P
8	2496.00	-17.82	74.34	56.52	74.00	-17.48	Peak	100	310	P
9	4874.00	-11.87	48.07	36.20	54.00	-17.80	Average	100	125	P
10	4874.00	-11.87	54.37	42.50	74.00	-31.50	Peak	100	125	P
11	7311.00	-7.63	43.74	36.11	54.00	-17.89	Average	100	30	P
12	7311.00	-7.63	52.58	44.95	74.00	-29.05	Peak	100	30	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 1, CH11		:

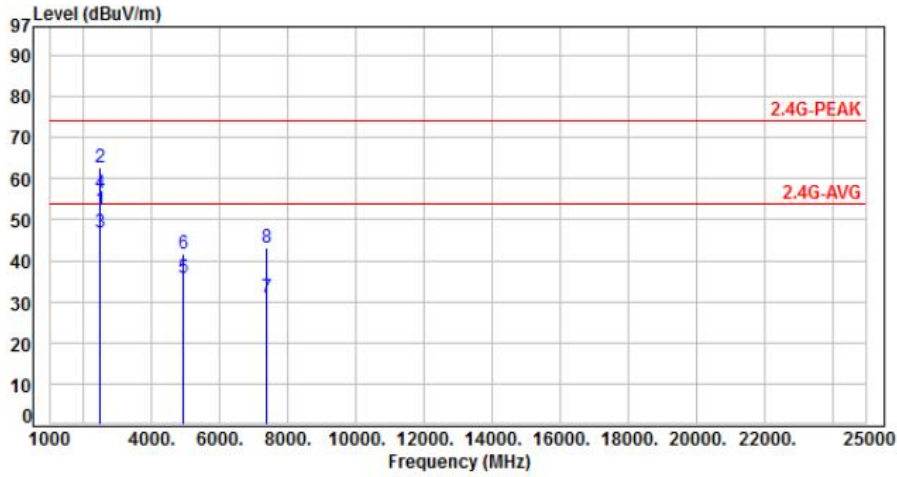


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-17.85	65.15	47.30	54.00	-6.70	Average	100	320	P
2	2483.50	-17.85	77.17	59.32	74.00	-14.68	Peak	100	320	P
3	2496.00	-17.82	59.57	41.75	54.00	-12.25	Average	100	320	P
4	2496.00	-17.82	72.36	54.54	74.00	-19.46	Peak	100	320	P
5	4924.00	-11.76	44.08	32.32	54.00	-21.68	Average	100	150	P
6	4924.00	-11.76	50.01	38.25	74.00	-35.75	Peak	100	150	P
7	7386.00	-7.59	40.86	33.27	54.00	-20.73	Average	100	80	P
8	7386.00	-7.59	51.33	43.74	74.00	-30.26	Peak	100	80	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 1, CH11		:

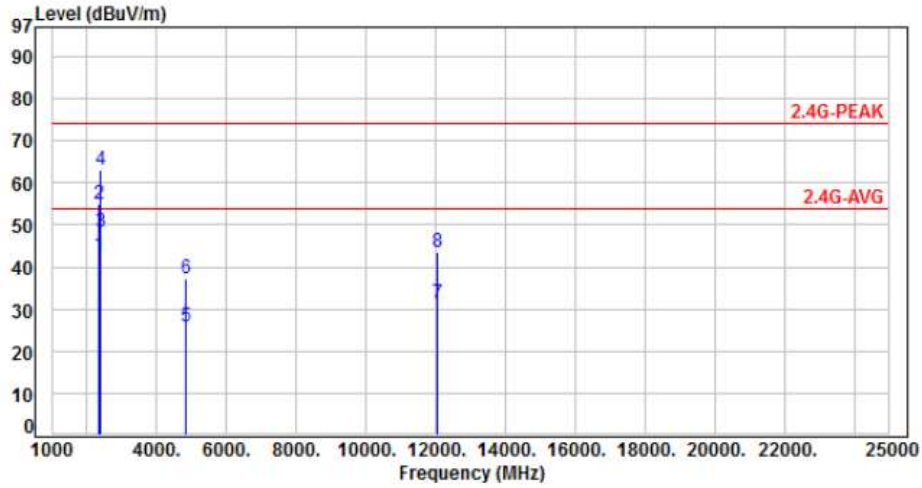


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-17.85	70.34	52.49	54.00	-1.51	Average	270	330	P
2	2483.50	-17.85	80.45	62.60	74.00	-11.40	Peak	270	330	P
3	2496.00	-17.82	64.65	46.83	54.00	-7.17	Average	270	330	P
4	2496.00	-17.82	74.08	56.26	74.00	-17.74	Peak	270	330	P
5	4924.00	-11.76	47.68	35.92	54.00	-18.08	Average	100	230	P
6	4924.00	-11.76	53.58	41.82	74.00	-32.18	Peak	100	230	P
7	7386.00	-7.59	38.43	30.84	54.00	-23.16	Average	100	295	P
8	7386.00	-7.59	50.70	43.11	74.00	-30.89	Peak	100	295	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH01		:

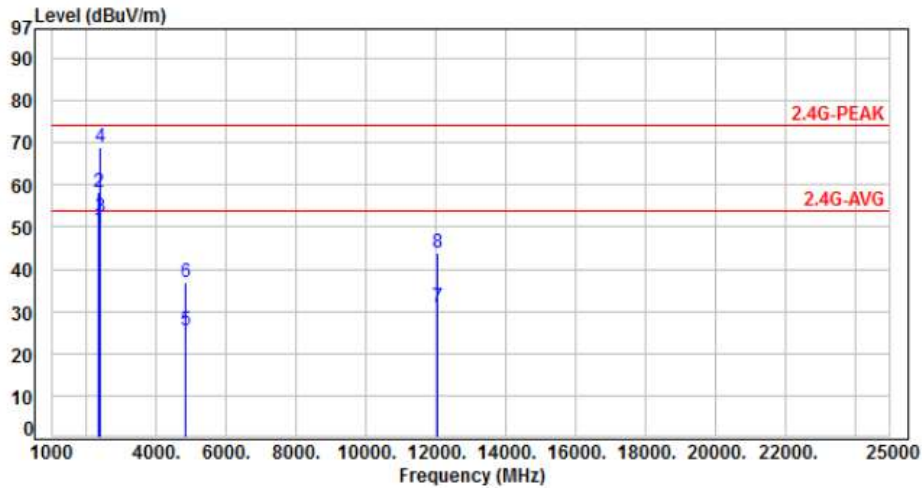


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	60.75	42.64	54.00	-11.36	Average	315	330	P
2	2352.00	-18.11	73.07	54.96	74.00	-19.04	Peak	315	330	P
3	2390.00	-18.17	66.55	48.38	54.00	-5.62	Average	315	330	P
4	2390.00	-18.17	81.12	62.95	74.00	-11.05	Peak	315	330	P
5	4824.00	-12.03	37.68	25.65	54.00	-28.35	Average	100	110	P
6	4824.00	-12.03	49.28	37.25	74.00	-36.75	Peak	100	110	P
7	12060.00	-3.59	34.84	31.25	54.00	-22.75	Average	100	126	P
8	12060.00	-3.59	47.05	43.46	74.00	-30.54	Peak	100	126	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH01		:

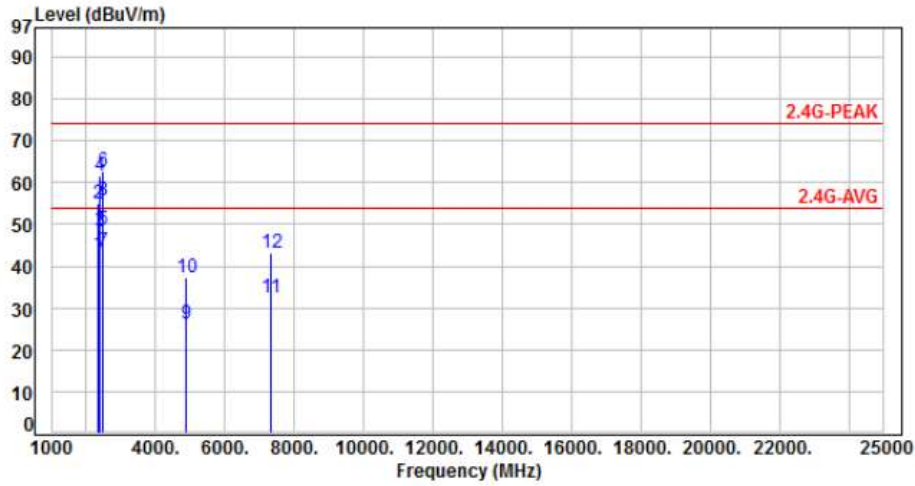


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	67.46	49.35	54.00	-4.65	Average	210	325	P
2	2352.00	-18.11	76.40	58.29	74.00	-15.71	Peak	210	325	P
3	2390.00	-18.17	70.66	52.49	54.00	-1.51	Average	210	325	P
4	2390.00	-18.17	87.23	69.06	74.00	-4.94	Peak	210	325	P
5	4824.00	-12.03	37.44	25.41	54.00	-28.59	Average	100	125	P
6	4824.00	-12.03	49.06	37.03	74.00	-36.97	Peak	100	125	P
7	12060.00	-3.59	34.54	30.95	54.00	-23.05	Average	100	157	P
8	12060.00	-3.59	47.39	43.80	74.00	-30.20	Peak	100	157	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH06		:



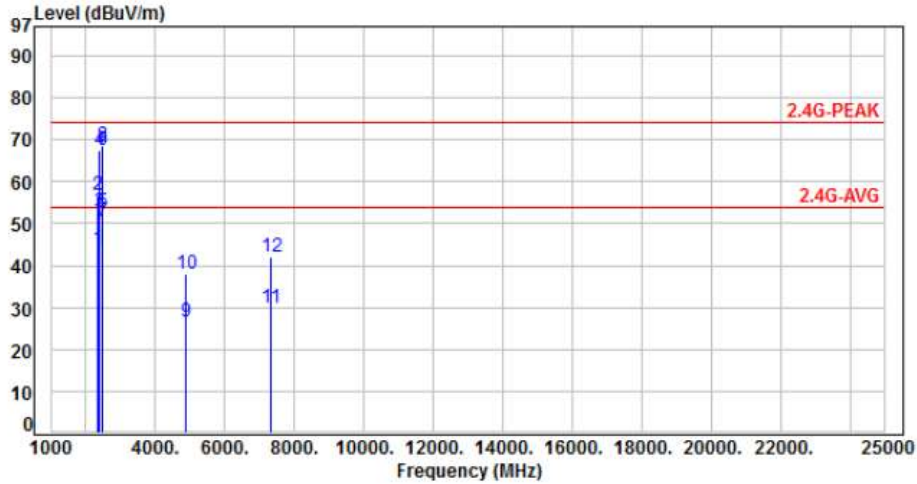
No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	60.93	42.82	54.00	-11.18	Average	100	89	P
2	2352.00	-18.11	73.21	55.10	74.00	-18.90	Peak	100	89	P
3	2390.00	-18.17	66.54	48.37	54.00	-5.63	Average	100	89	P
4	2390.00	-18.17	79.83	61.66	74.00	-12.34	Peak	100	89	P
5	2485.00	-17.85	66.49	48.64	54.00	-5.36	Average	100	89	P
6	2485.00	-17.85	80.72	62.87	74.00	-11.13	Peak	100	89	P
7	2496.00	-17.82	61.36	43.54	54.00	-10.46	Average	100	89	P
8	2496.00	-17.82	73.55	55.73	74.00	-18.27	Peak	100	89	P
9	4874.00	-11.87	38.05	26.18	54.00	-27.82	Average	100	140	P
10	4874.00	-11.87	49.14	37.27	54.00	-16.73	Average	100	140	P
11	7311.00	-7.63	39.97	32.34	54.00	-21.66	Average	100	150	P
12	7311.00	-7.63	50.85	43.22	74.00	-30.78	Peak	100	150	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH06		:

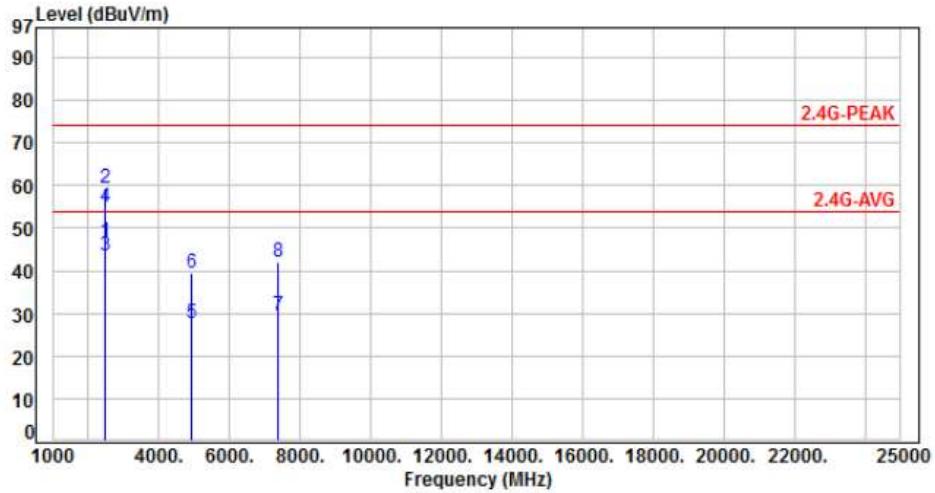


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-18.11	61.94	43.83	54.00	-10.17	Average	190	325	P
2	2352.00	-18.11	74.92	56.81	74.00	-17.19	Peak	190	325	P
3	2390.00	-18.17	70.89	52.72	54.00	-1.28	Average	190	325	P
4	2390.00	-18.17	85.49	67.32	74.00	-6.68	Peak	190	325	P
5	2485.00	-17.85	70.51	52.66	54.00	-1.34	Average	130	320	P
6	2485.00	-17.85	85.34	67.49	74.00	-6.51	Peak	130	320	P
7	2496.00	-17.82	68.40	50.58	54.00	-3.42	Average	190	325	P
8	2496.00	-17.82	86.49	68.67	74.00	-5.33	Peak	190	325	P
9	4874.00	-11.87	38.60	26.73	54.00	-27.27	Average	100	130	P
10	4874.00	-11.87	50.02	38.15	74.00	-35.85	Peak	100	130	P
11	7311.00	-7.63	37.58	29.95	54.00	-24.05	Average	100	166	P
12	7311.00	-7.63	49.78	42.15	74.00	-31.85	Peak	100	166	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 2, CH11		:

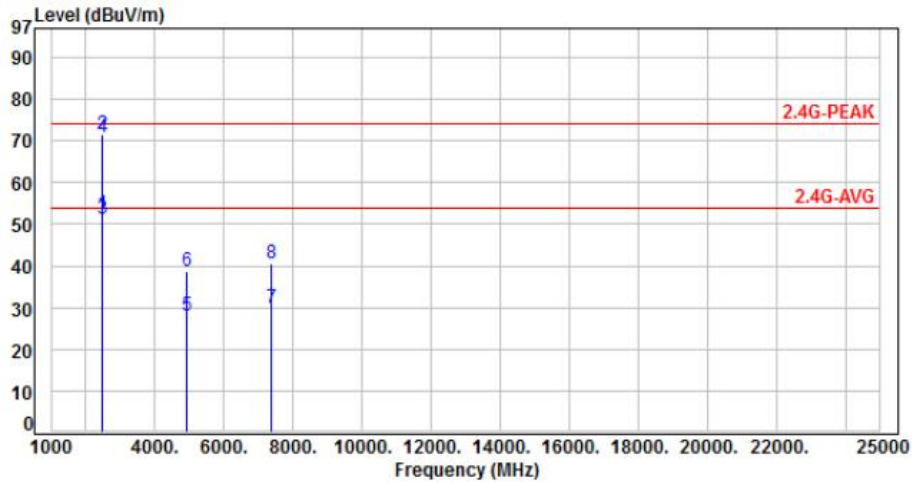


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-17.85	64.61	46.76	54.00	-7.24	Average	100	330	P
2	2483.50	-17.85	77.35	59.50	74.00	-14.50	Peak	100	330	P
3	2496.00	-17.82	61.25	43.43	54.00	-10.57	Average	100	330	P
4	2496.00	-17.82	72.85	55.03	74.00	-18.97	Peak	100	330	P
5	4924.00	-11.76	39.42	27.66	54.00	-26.34	Average	100	165	P
6	4924.00	-11.76	51.25	39.49	74.00	-34.51	Peak	100	165	P
7	7386.00	-7.59	37.03	29.44	54.00	-24.56	Average	100	124	P
8	7386.00	-7.59	49.50	41.91	74.00	-32.09	Peak	100	124	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2, CH11		:

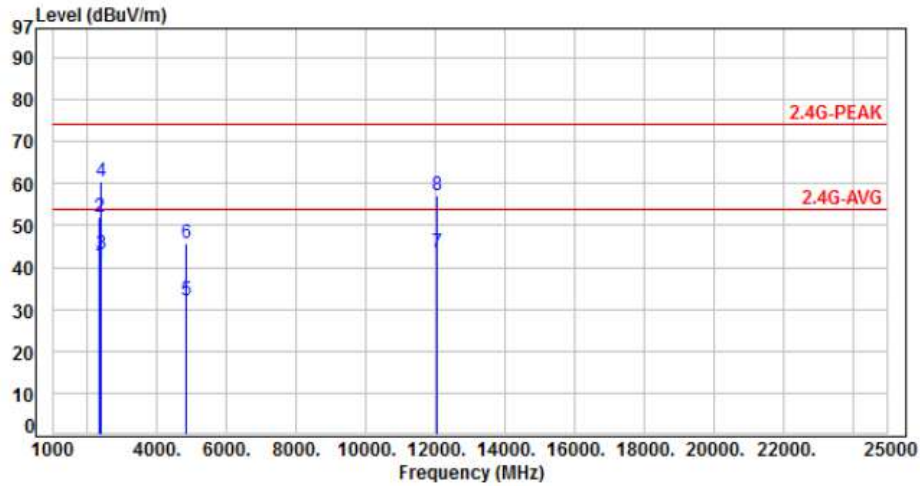


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-17.85	70.21	52.36	54.00	-1.64	Average	245	330	P
2	2483.50	-17.85	89.31	71.46	74.00	-2.54	Peak	245	330	P
3	2496.00	-17.82	69.26	51.44	54.00	-2.56	Average	245	330	P
4	2496.00	-17.82	88.51	70.69	74.00	-3.31	Peak	245	330	P
5	4924.00	-11.76	39.62	27.86	54.00	-26.14	Average	100	120	P
6	4924.00	-11.76	50.42	38.66	74.00	-35.34	Peak	100	120	P
7	7386.00	-7.59	37.32	29.73	54.00	-24.27	Average	100	135	P
8	7386.00	-7.59	48.04	40.45	74.00	-33.55	Peak	100	135	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH01		:

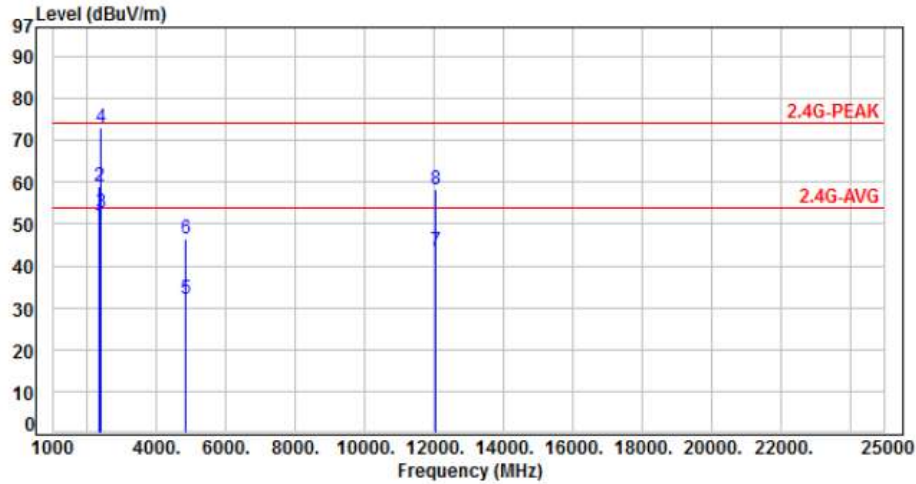


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	44.12	40.53	54.00	-13.47	Average	100	195	P
2	2352.00	-3.59	55.69	52.10	74.00	-21.90	Peak	100	195	P
3	2390.00	-3.64	46.72	43.08	54.00	-10.92	Average	100	195	P
4	2390.00	-3.64	64.00	60.36	74.00	-13.64	Peak	100	195	P
5	4824.00	3.76	28.27	32.03	54.00	-21.97	Average	100	255	P
6	4824.00	3.76	42.00	45.76	74.00	-28.24	Peak	100	255	P
7	12060.00	13.45	30.11	43.56	54.00	-10.44	Average	100	205	P
8	12060.00	13.45	43.90	57.35	74.00	-16.65	Peak	100	205	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH01		:

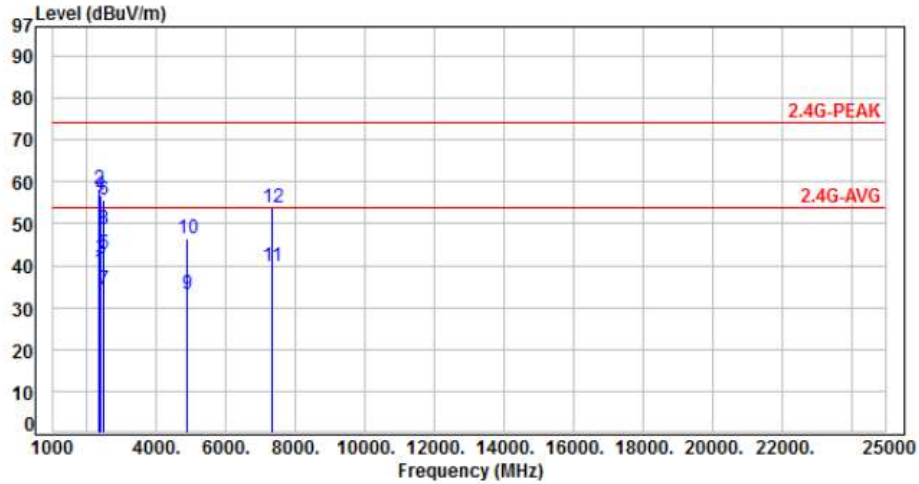


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	53.45	49.86	54.00	-4.14	Average	100	5	P
2	2352.00	-3.59	62.62	59.03	74.00	-14.97	Peak	100	5	P
3	2390.00	-3.64	56.20	52.56	54.00	-1.44	Average	100	5	P
4	2390.00	-3.64	76.51	72.87	74.00	-1.13	Peak	100	5	P
5	4824.00	3.76	28.22	31.98	54.00	-22.02	Average	100	135	P
6	4824.00	3.76	42.86	46.62	74.00	-27.38	Peak	100	135	P
7	12060.00	13.45	30.06	43.51	54.00	-10.49	Average	100	100	P
8	12060.00	13.45	44.71	58.16	74.00	-15.84	Peak	100	100	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH06		:

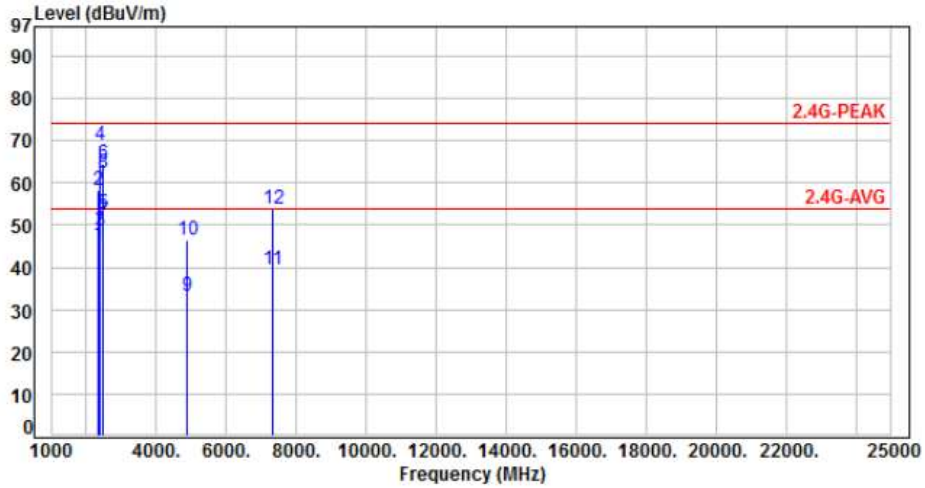


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	42.40	38.81	54.00	-15.19	Average	100	177	P
2	2352.00	-3.59	61.85	58.26	74.00	-15.74	Peak	100	177	P
3	2390.00	-3.64	45.36	41.72	54.00	-12.28	Average	100	177	P
4	2390.00	-3.64	60.51	56.87	74.00	-17.13	Peak	100	177	P
5	2483.50	-3.30	46.15	42.85	54.00	-11.15	Average	100	177	P
6	2483.50	-3.30	59.11	55.81	74.00	-18.19	Peak	100	177	P
7	2496.00	-3.27	37.63	34.36	54.00	-19.64	Average	100	177	P
8	2496.00	-3.27	51.93	48.66	74.00	-25.34	Peak	100	177	P
9	4874.00	3.95	29.16	33.11	54.00	-20.89	Average	100	169	P
10	4874.00	3.95	42.57	46.52	74.00	-27.48	Peak	100	169	P
11	7311.00	8.84	31.01	39.85	54.00	-14.15	Average	100	235	P
12	7311.00	8.84	44.99	53.83	74.00	-20.17	Peak	100	235	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH06		:

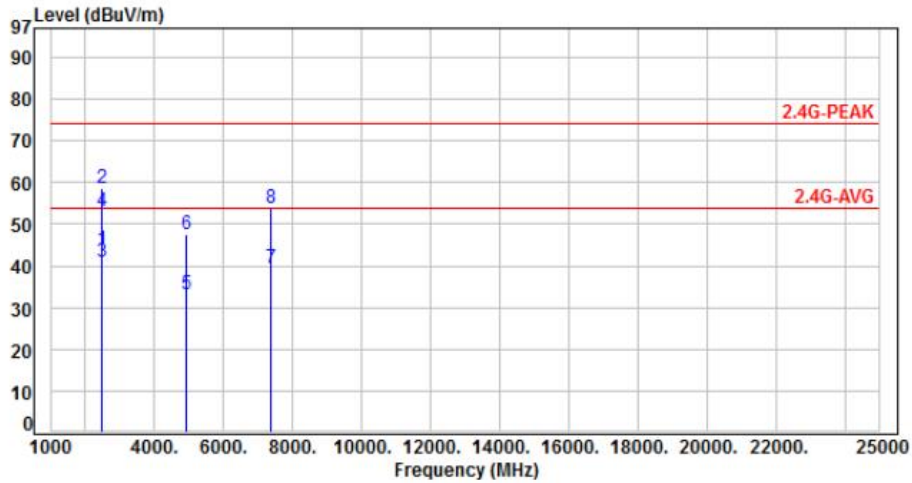


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	48.93	45.34	54.00	-8.66	Average	100	0	P
2	2352.00	-3.59	61.69	58.10	74.00	-15.90	Peak	100	0	P
3	2390.00	-3.64	52.21	48.57	54.00	-5.43	Average	100	0	P
4	2390.00	-3.64	72.52	68.88	74.00	-5.12	Peak	100	0	P
5	2483.50	-3.30	56.10	52.80	54.00	-1.20	Average	140	0	P
6	2483.50	-3.30	67.69	64.39	74.00	-9.61	Peak	140	0	P
7	2496.00	-3.27	54.20	50.93	54.00	-3.07	Average	140	0	P
8	2496.00	-3.27	65.50	62.23	74.00	-11.77	Peak	140	0	P
9	4874.00	3.95	29.41	33.36	54.00	-20.64	Average	100	241	P
10	4874.00	3.95	42.35	46.30	74.00	-27.70	Peak	100	241	P
11	7311.00	8.84	30.54	39.38	54.00	-14.62	Average	100	285	P
12	7311.00	8.84	45.17	54.01	74.00	-19.99	Peak	100	285	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 3, CH11		:



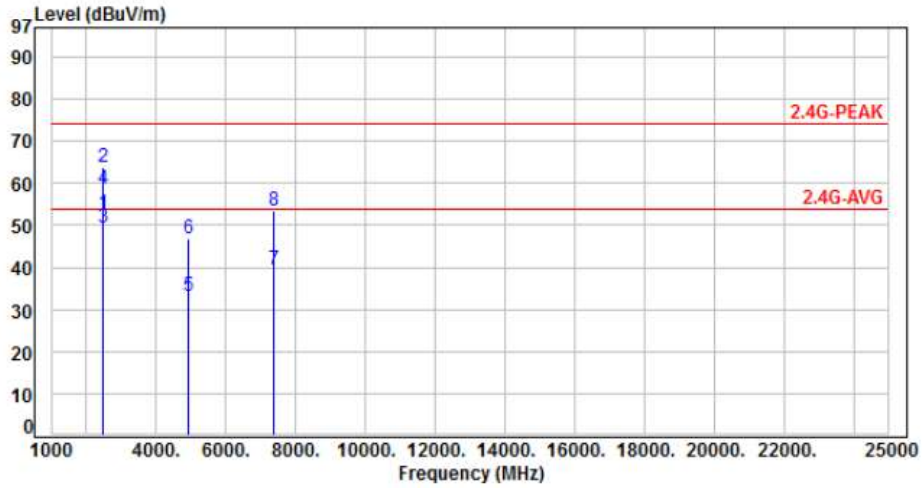
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	47.30	44.00	54.00	-10.00	Average	100	305	P
2	2483.50	-3.30	61.78	58.48	74.00	-15.52	Peak	100	305	P
3	2496.00	-3.27	44.23	40.96	54.00	-13.04	Average	100	305	P
4	2496.00	-3.27	56.48	53.21	74.00	-20.79	Peak	100	305	P
5	4924.00	4.10	29.26	33.36	54.00	-20.64	Average	100	331	P
6	4924.00	4.10	43.56	47.66	74.00	-26.34	Peak	100	331	P
7	7386.00	8.94	30.54	39.48	54.00	-14.52	Average	100	105	P
8	7386.00	8.94	44.87	53.81	74.00	-20.19	Peak	100	105	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 3, CH11		:

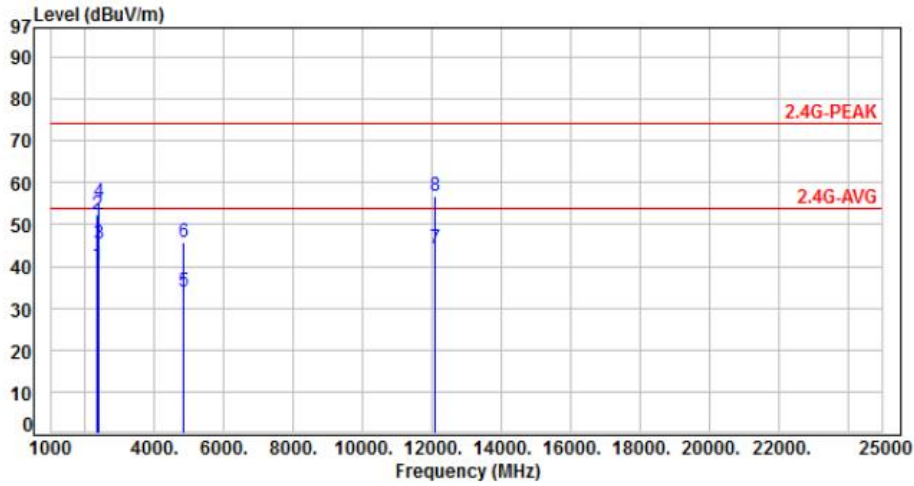


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	56.19	52.89	54.00	-1.11	Average	125	0	P
2	2483.50	-3.30	66.98	63.68	74.00	-10.32	Peak	125	0	P
3	2496.00	-3.27	52.85	49.58	54.00	-4.42	Average	125	0	P
4	2496.00	-3.27	61.95	58.68	74.00	-15.32	Peak	125	0	P
5	4924.00	4.10	29.01	33.11	54.00	-20.89	Average	100	256	P
6	4924.00	4.10	42.60	46.70	74.00	-27.30	Peak	100	256	P
7	7386.00	8.94	30.69	39.63	54.00	-14.37	Average	100	147	P
8	7386.00	8.94	44.50	53.44	74.00	-20.56	Peak	100	147	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH03		:

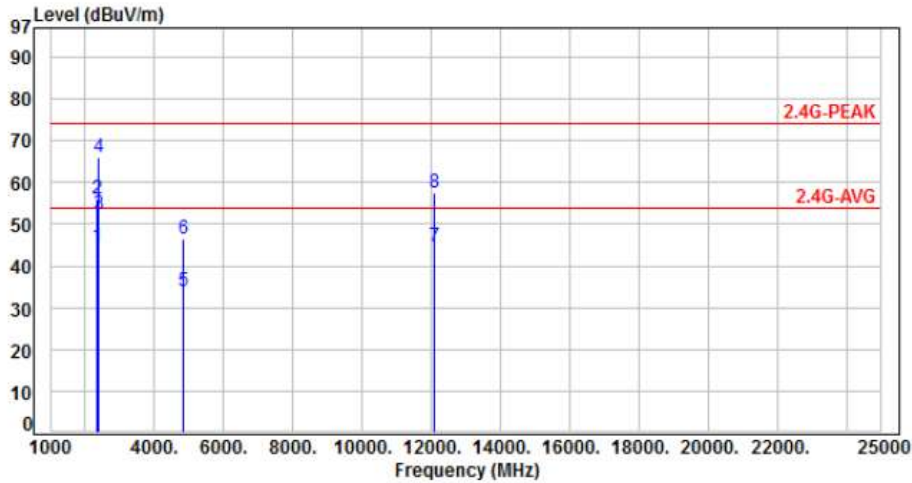


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	43.72	40.13	54.00	-13.87	Average	225	327	P
2	2352.00	-3.59	56.06	52.47	74.00	-21.53	Peak	225	327	P
3	2390.00	-3.64	49.04	45.40	54.00	-8.60	Average	225	327	P
4	2390.00	-3.64	59.05	55.41	74.00	-18.59	Peak	225	327	P
5	4844.00	3.85	30.08	33.93	54.00	-20.07	Average	100	265	P
6	4844.00	3.85	41.88	45.73	74.00	-28.27	Peak	100	265	P
7	12110.00	13.39	30.99	44.38	54.00	-9.62	Average	100	173	P
8	12110.00	13.39	43.37	56.76	74.00	-17.24	Peak	100	173	P

Note: Level=Reading+Factor  
Margin=Level-Limit  
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH03		:

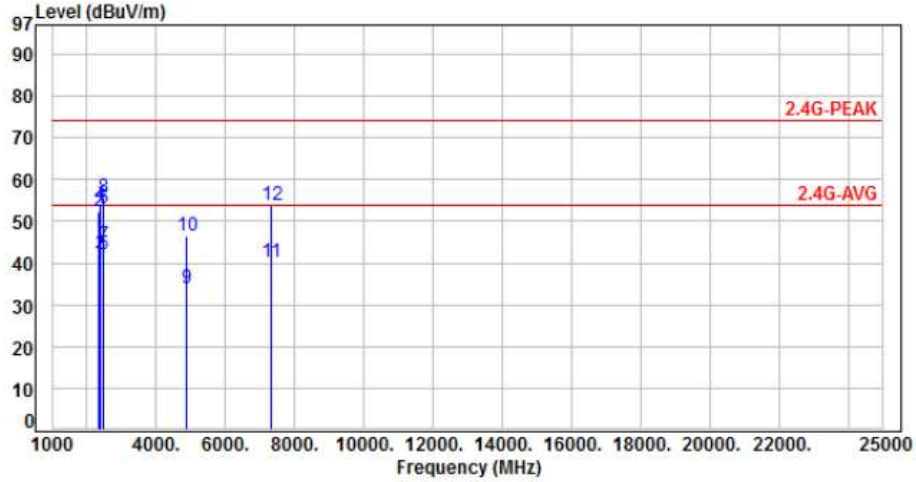


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	48.04	44.45	54.00	-9.55	Average	160	0	P
2	2352.00	-3.59	59.62	56.03	74.00	-17.97	Peak	160	0	P
3	2390.00	-3.64	56.08	52.44	54.00	-1.56	Average	160	0	P
4	2390.00	-3.64	69.78	66.14	74.00	-7.86	Peak	160	0	P
5	4844.00	3.85	30.10	33.95	54.00	-20.05	Average	100	159	P
6	4844.00	3.85	42.79	46.64	74.00	-27.36	Peak	100	159	P
7	12110.00	13.39	31.08	44.47	54.00	-9.53	Average	100	212	P
8	12110.00	13.39	44.23	57.62	74.00	-16.38	Peak	100	212	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH06		:

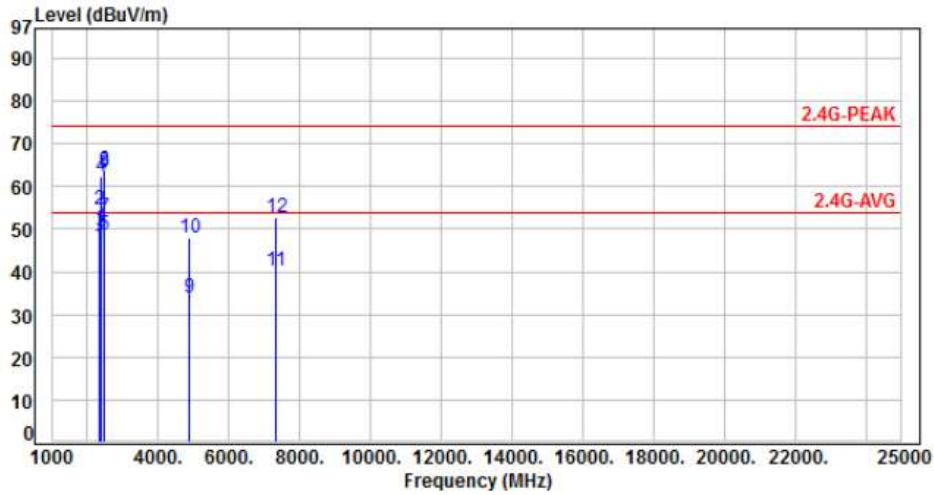


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	43.82	40.23	54.00	-13.77	Average	100	271	P
2	2352.00	-3.59	55.95	52.36	74.00	-21.64	Peak	100	271	P
3	2390.00	-3.64	45.64	42.00	54.00	-12.00	Average	100	271	P
4	2390.00	-3.64	57.52	53.88	74.00	-20.12	Peak	100	271	P
5	2483.50	-3.30	45.33	42.03	54.00	-11.97	Average	100	92	P
6	2483.50	-3.30	56.49	53.19	74.00	-20.81	Peak	100	92	P
7	2496.00	-3.27	47.61	44.34	54.00	-9.66	Average	100	92	P
8	2496.00	-3.27	58.91	55.64	74.00	-18.36	Peak	100	92	P
9	4874.00	3.95	30.10	34.05	54.00	-19.95	Average	100	266	P
10	4874.00	3.95	42.66	46.61	74.00	-27.39	Peak	100	266	P
11	7311.00	8.84	31.39	40.23	54.00	-13.77	Average	100	170	P
12	7311.00	8.84	45.06	53.90	74.00	-20.10	Peak	100	170	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH06		:

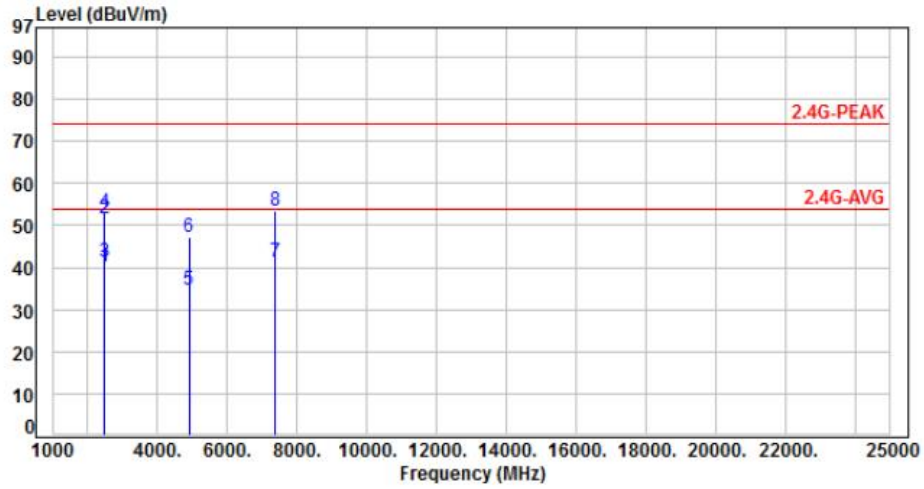


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	49.55	45.96	54.00	-8.04	Average	100	0	P
2	2352.00	-3.59	58.28	54.69	74.00	-19.31	Peak	100	0	P
3	2390.00	-3.64	52.91	49.27	54.00	-4.73	Average	100	0	P
4	2390.00	-3.64	66.13	62.49	74.00	-11.51	Peak	100	0	P
5	2483.50	-3.30	51.95	48.65	54.00	-5.35	Average	118	0	P
6	2483.50	-3.30	67.05	63.75	74.00	-10.25	Peak	118	0	P
7	2496.00	-3.27	56.17	52.90	54.00	-1.10	Average	118	0	P
8	2496.00	-3.27	66.73	63.46	74.00	-10.54	Peak	118	0	P
9	4874.00	3.95	29.83	33.78	54.00	-20.22	Average	100	158	P
10	4874.00	3.95	43.87	47.82	74.00	-26.18	Peak	100	158	P
11	7311.00	8.84	31.25	40.09	54.00	-13.91	Average	100	70	P
12	7311.00	8.84	43.83	52.67	74.00	-21.33	Peak	100	70	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 4, CH09		:

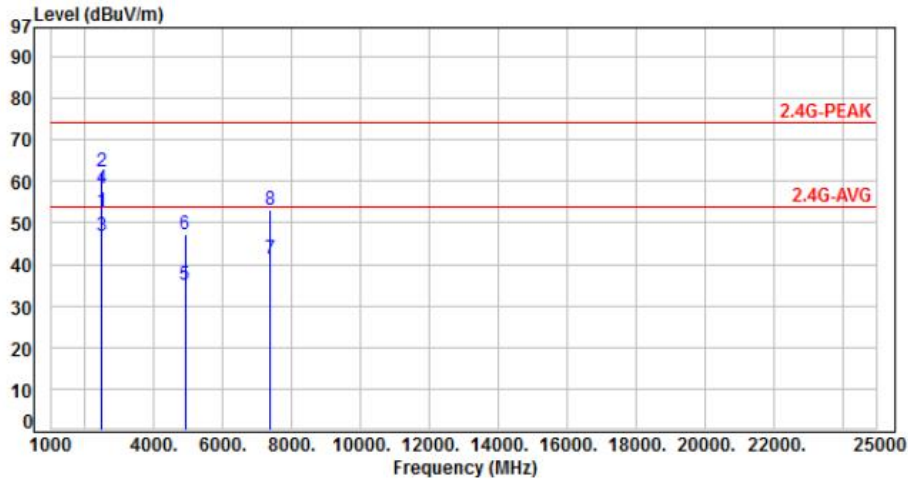


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	43.46	40.16	54.00	-13.84	Average	100	325	P
2	2483.50	-3.30	54.82	51.52	74.00	-22.48	Peak	100	325	P
3	2496.00	-3.27	44.74	41.47	54.00	-12.53	Average	100	325	P
4	2496.00	-3.27	56.25	52.98	74.00	-21.02	Peak	100	325	P
5	4904.00	4.05	30.57	34.62	54.00	-19.38	Average	100	237	P
6	4904.00	4.05	43.28	47.33	74.00	-26.67	Peak	100	237	P
7	7356.00	8.86	32.54	41.40	54.00	-12.60	Average	100	245	P
8	7356.00	8.86	44.62	53.48	74.00	-20.52	Peak	100	245	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 4, CH09		:

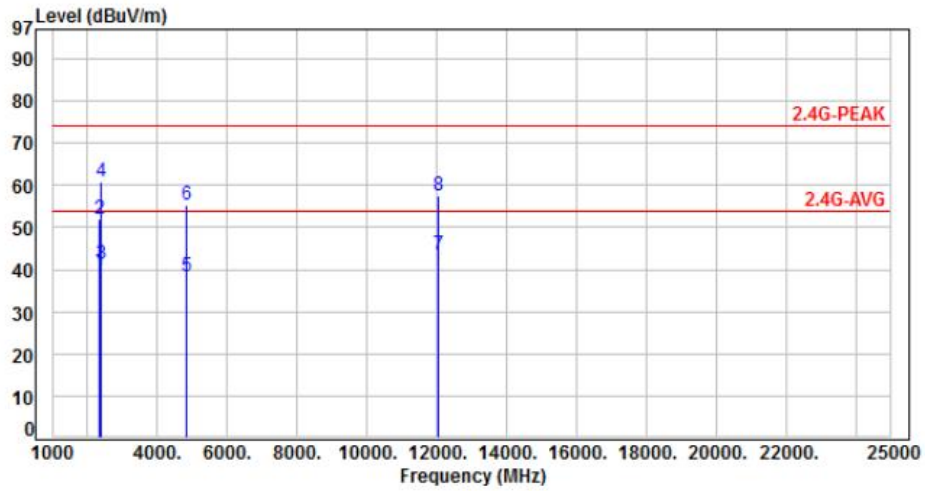


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	56.10	52.80	54.00	-1.20	Average	140	0	P
2	2483.50	-3.30	65.68	62.38	74.00	-11.62	Peak	140	0	P
3	2496.00	-3.27	50.23	46.96	54.00	-7.04	Average	140	0	P
4	2496.00	-3.27	61.58	58.31	74.00	-15.69	Peak	140	0	P
5	4904.00	4.05	30.81	34.86	54.00	-19.14	Average	100	192	P
6	4904.00	4.05	43.01	47.06	74.00	-26.94	Peak	100	192	P
7	7356.00	8.86	32.37	41.23	54.00	-12.77	Average	100	150	P
8	7356.00	8.86	44.20	53.06	74.00	-20.94	Peak	100	150	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH01		:



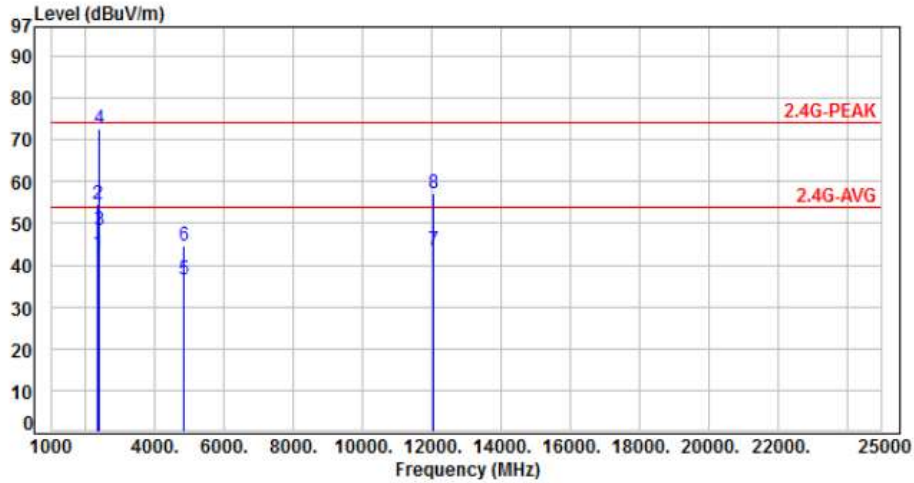
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	43.50	39.91	54.00	-14.09	Average	100	310	P
2	2352.00	-3.59	55.60	52.01	74.00	-21.99	Peak	100	310	P
3	2390.00	-3.64	45.10	41.46	54.00	-12.54	Average	100	310	P
4	2390.00	-3.64	64.41	60.77	74.00	-13.23	Peak	100	310	P
5	4824.00	3.76	34.73	38.49	54.00	-15.51	Average	100	236	P
6	4824.00	3.76	51.55	55.31	74.00	-18.69	Peak	100	236	P
7	12060.00	13.45	29.89	43.34	54.00	-10.66	Average	100	290	P
8	12060.00	13.45	44.02	57.47	74.00	-16.53	Peak	100	290	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, CH01		:

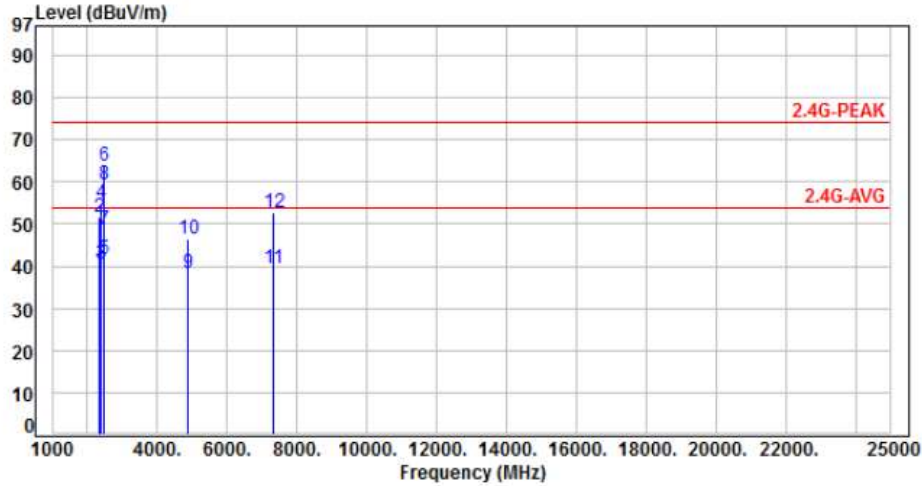


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	46.50	42.91	54.00	-11.09	Average	100	0	P
2	2352.00	-3.59	58.00	54.49	74.00	-19.51	Peak	100	0	P
3	2390.00	-3.64	52.10	48.46	54.00	-5.54	Average	100	0	P
4	2390.00	-3.64	76.25	72.61	74.00	-1.39	Peak	100	0	P
5	4824.00	3.76	32.76	36.52	54.00	-17.48	Average	100	133	P
6	4824.00	3.76	41.01	44.77	74.00	-29.23	Peak	100	133	P
7	12060.00	13.45	30.03	43.48	54.00	-10.52	Average	100	186	P
8	12060.00	13.45	43.78	57.23	74.00	-16.77	Peak	100	186	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH06		:

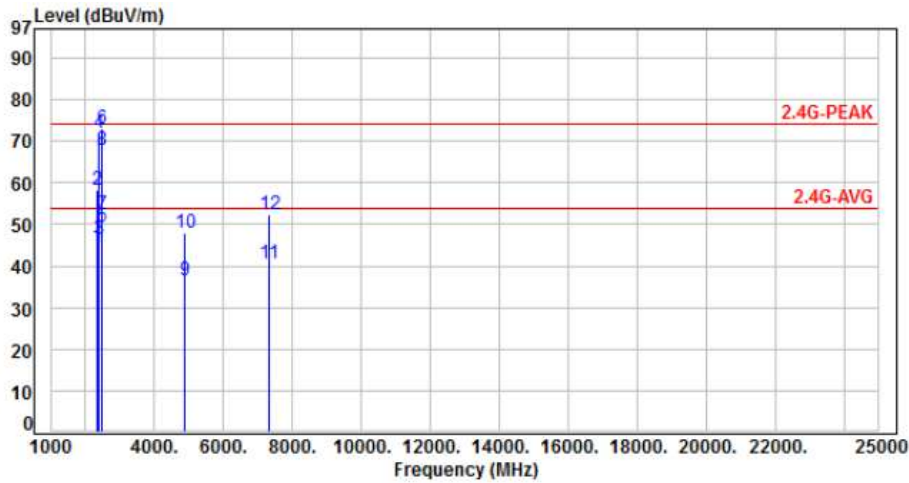


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	42.62	39.03	54.00	-14.97	Average	100	230	P
2	2352.00	-3.59	55.11	51.52	74.00	-22.48	Peak	100	230	P
3	2390.00	-3.64	44.05	40.41	54.00	-13.59	Average	100	230	P
4	2390.00	-3.64	58.49	54.85	74.00	-19.15	Peak	100	230	P
5	2483.50	-3.30	45.15	41.85	54.00	-12.15	Average	100	335	P
6	2483.50	-3.30	67.23	63.93	74.00	-10.07	Peak	100	230	P
7	2496.00	-3.27	51.82	48.55	54.00	-5.45	Average	100	335	P
8	2496.00	-3.27	62.79	59.52	74.00	-14.48	Peak	100	335	P
9	4874.00	3.95	34.41	38.36	54.00	-15.64	Average	100	183	P
10	4874.00	3.95	42.40	46.35	74.00	-27.65	Peak	100	183	P
11	7311.00	8.84	30.72	39.56	54.00	-14.44	Average	100	155	P
12	7311.00	8.84	43.96	52.80	74.00	-21.20	Peak	100	155	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, CH06		:

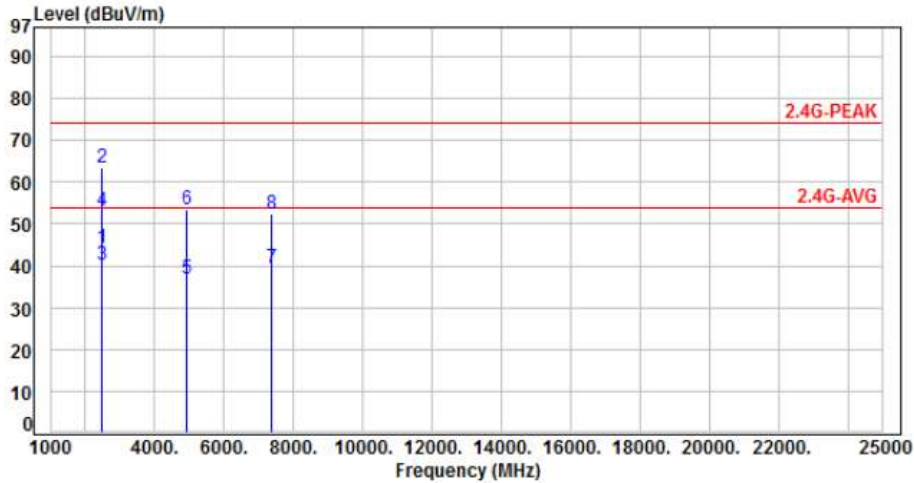


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	48.30	44.71	54.00	-9.29	Average	100	0	P
2	2352.00	-3.59	62.04	58.45	74.00	-15.55	Peak	100	0	P
3	2390.00	-3.64	50.22	46.58	54.00	-7.42	Average	100	0	P
4	2390.00	-3.64	75.66	72.02	74.00	-1.98	Peak	100	0	P
5	2483.50	-3.30	52.65	49.35	54.00	-4.65	Average	100	0	P
6	2483.50	-3.30	76.34	73.04	74.00	-0.96	Peak	100	0	P
7	2496.00	-3.27	55.80	52.53	54.00	-1.47	Average	100	0	P
8	2496.00	-3.27	71.30	68.03	74.00	-5.97	Peak	100	0	P
9	4874.00	3.95	32.65	36.60	54.00	-17.40	Average	100	253	P
10	4874.00	3.95	43.83	47.78	74.00	-26.22	Peak	100	253	P
11	7311.00	8.84	31.87	40.71	54.00	-13.29	Average	100	245	P
12	7311.00	8.84	43.68	52.52	74.00	-21.48	Peak	100	245	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 5, CH11		:

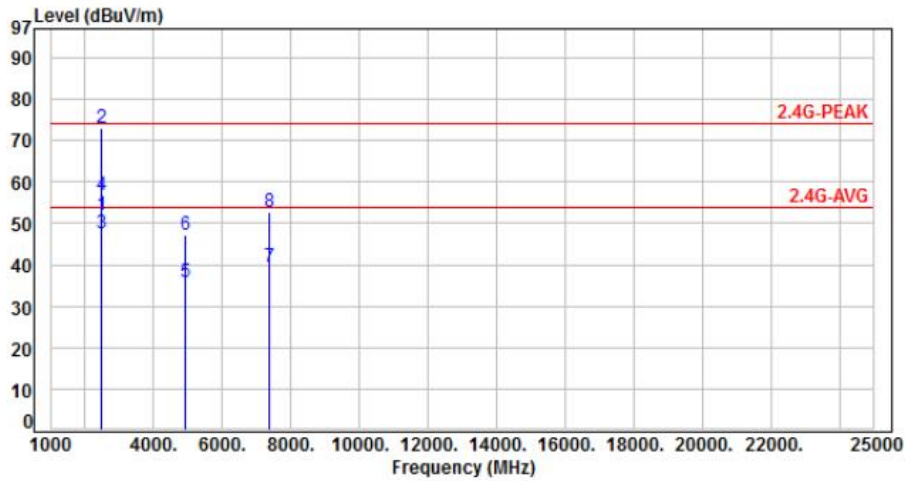


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	47.50	44.20	54.00	-9.80	Average	100	126	P
2	2483.50	-3.30	66.67	63.37	74.00	-10.63	Peak	100	126	P
3	2496.00	-3.27	43.60	40.33	54.00	-13.67	Average	100	126	P
4	2496.00	-3.27	56.54	53.27	74.00	-20.73	Peak	100	126	P
5	4924.00	4.10	32.73	36.83	54.00	-17.17	Average	100	174	P
6	4924.00	4.10	49.24	53.34	74.00	-20.66	Peak	100	174	P
7	7386.00	8.94	30.69	39.63	54.00	-14.37	Average	100	169	P
8	7386.00	8.94	43.29	52.23	74.00	-21.77	Peak	100	169	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 5, CH11		:

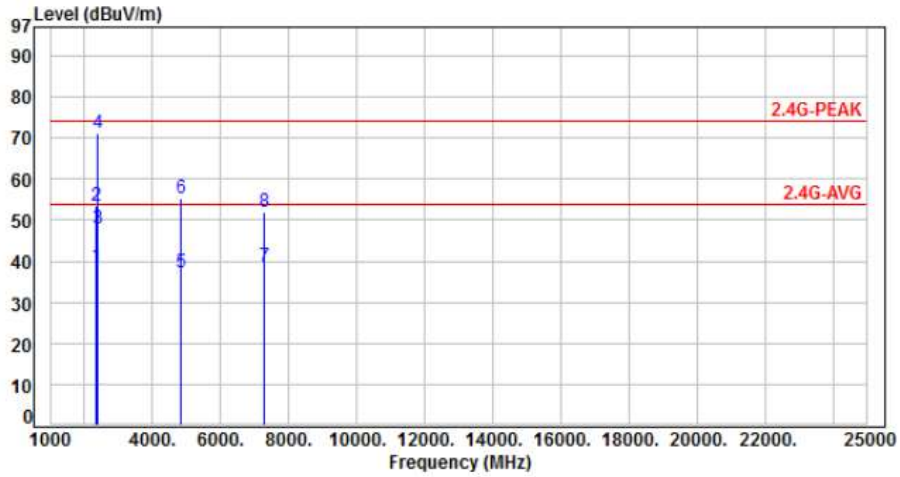


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	55.41	52.11	54.00	-1.89	Average	115	0	P
2	2483.50	-3.30	76.14	72.84	74.00	-1.16	Peak	115	0	P
3	2496.00	-3.27	50.80	47.53	54.00	-6.47	Average	115	0	P
4	2496.00	-3.27	60.25	56.98	74.00	-17.02	Peak	115	0	P
5	4924.00	4.10	31.79	35.89	54.00	-18.11	Average	100	265	P
6	4924.00	4.10	43.23	47.33	74.00	-26.67	Peak	100	265	P
7	7386.00	8.94	30.68	39.62	54.00	-14.38	Average	100	291	P
8	7386.00	8.94	43.81	52.75	74.00	-21.25	Peak	100	291	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH03		:

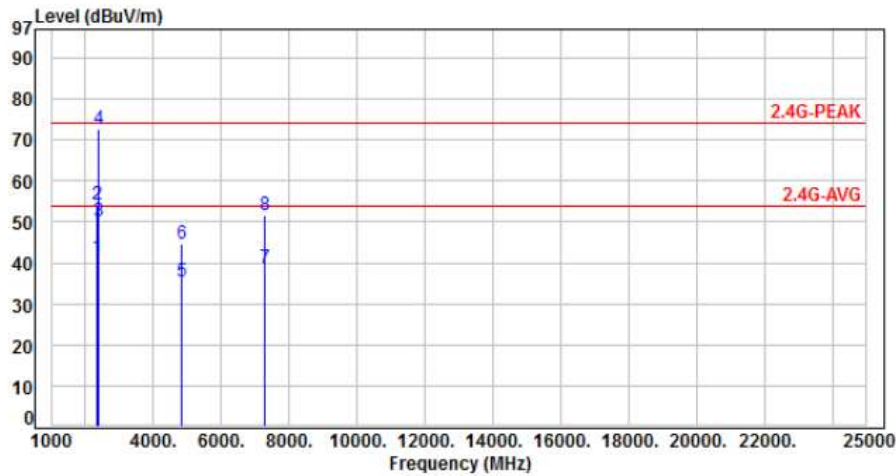


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	42.50	38.91	54.00	-15.09	Average	100	88	P
2	2352.00	-3.59	57.18	53.59	74.00	-20.41	Peak	100	88	P
3	2390.00	-3.64	51.69	48.05	54.00	-5.95	Average	100	88	P
4	2390.00	-3.64	74.74	71.10	74.00	-2.90	Peak	100	88	P
5	4844.00	3.85	33.41	37.26	54.00	-16.74	Average	298	198	P
6	4844.00	3.85	51.31	55.16	74.00	-18.84	Peak	298	198	P
7	7266.00	8.62	30.13	38.75	54.00	-15.25	Average	100	155	P
8	7266.00	8.62	43.36	51.98	74.00	-22.02	Peak	100	155	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, CH03		:

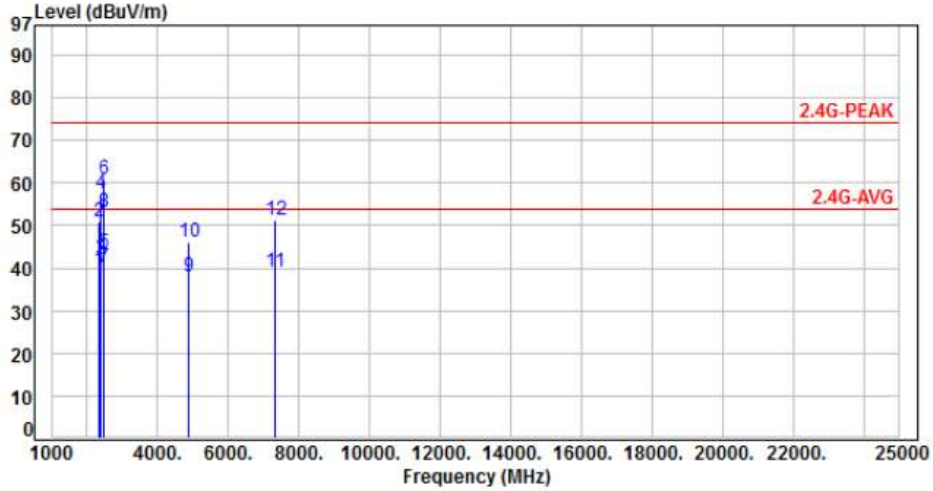


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	44.85	41.26	54.00	-12.74	Average	152	6	P
2	2352.00	-3.59	57.80	54.21	74.00	-19.79	Peak	152	6	P
3	2390.00	-3.64	53.90	50.26	54.00	-3.74	Average	152	6	P
4	2390.00	-3.64	76.12	72.48	74.00	-1.52	Peak	152	6	P
5	4844.00	3.85	31.46	35.31	54.00	-18.69	Average	125	296	P
6	4844.00	3.85	40.82	44.67	74.00	-29.33	Peak	125	296	P
7	7266.00	8.62	30.10	38.72	54.00	-15.28	Average	100	272	P
8	7266.00	8.62	42.92	51.54	74.00	-22.46	Peak	100	272	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH06		:



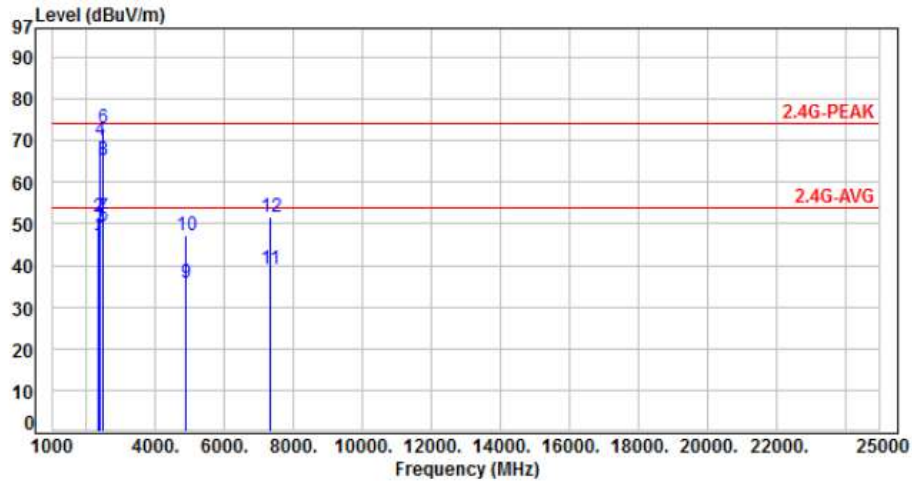
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	43.04	39.45	54.00	-14.55	Average	146	122	P
2	2352.00	-3.59	54.66	51.07	74.00	-22.93	Peak	146	122	P
3	2390.00	-3.64	45.62	41.98	54.00	-12.02	Average	146	122	P
4	2390.00	-3.64	61.05	57.41	74.00	-16.59	Peak	146	122	P
5	2483.50	-3.30	46.69	43.39	54.00	-10.61	Average	149	122	P
6	2483.50	-3.30	64.27	60.97	74.00	-13.03	Peak	149	122	P
7	2496.00	-3.27	43.58	40.31	54.00	-13.69	Average	149	122	P
8	2496.00	-3.27	56.48	53.21	74.00	-20.79	Peak	149	122	P
9	4874.00	3.95	34.11	38.06	54.00	-15.94	Average	283	180	P
10	4874.00	3.95	42.26	46.21	74.00	-27.79	Peak	283	180	P
11	7311.00	8.84	30.20	39.04	54.00	-14.96	Average	100	195	P
12	7311.00	8.84	42.54	51.38	74.00	-22.62	Peak	100	195	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor





Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, CH06		:

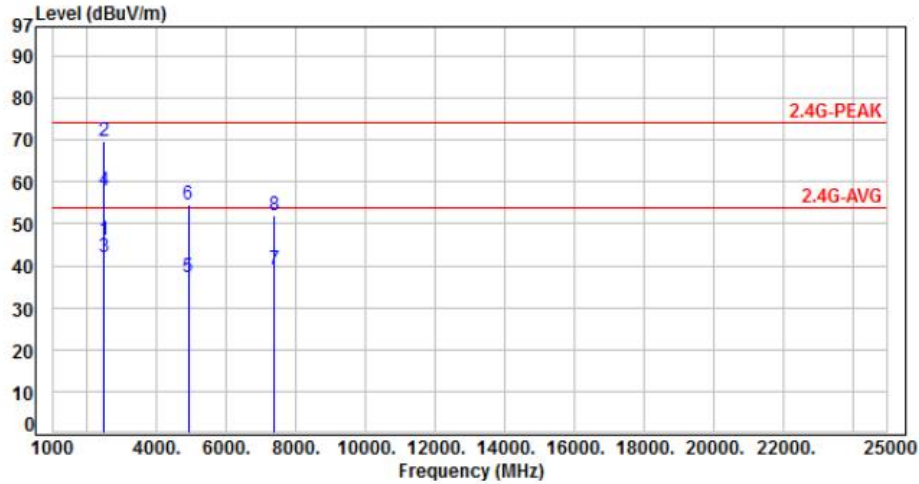


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2352.00	-3.59	48.56	44.97	54.00	-9.03	Average	148	0	P
2	2352.00	-3.59	55.26	51.67	74.00	-22.33	Peak	148	0	P
3	2390.00	-3.64	52.75	49.11	54.00	-4.89	Average	148	0	P
4	2390.00	-3.64	73.80	70.16	74.00	-3.84	Peak	148	0	P
5	2483.50	-3.30	52.61	49.31	54.00	-4.69	Average	148	0	P
6	2483.50	-3.30	76.32	73.02	74.00	-0.98	Peak	148	0	P
7	2496.00	-3.27	55.01	51.74	54.00	-2.26	Average	148	0	P
8	2496.00	-3.27	68.48	65.21	74.00	-8.79	Peak	148	0	P
9	4874.00	3.95	31.66	35.61	54.00	-18.39	Average	128	264	P
10	4874.00	3.95	43.21	47.16	74.00	-26.84	Peak	128	264	P
11	7311.00	8.84	30.24	39.08	54.00	-14.92	Average	100	176	P
12	7311.00	8.84	42.70	51.54	74.00	-22.46	Peak	100	176	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: VERTICAL
Test Mode	: Mode 6, CH09		:

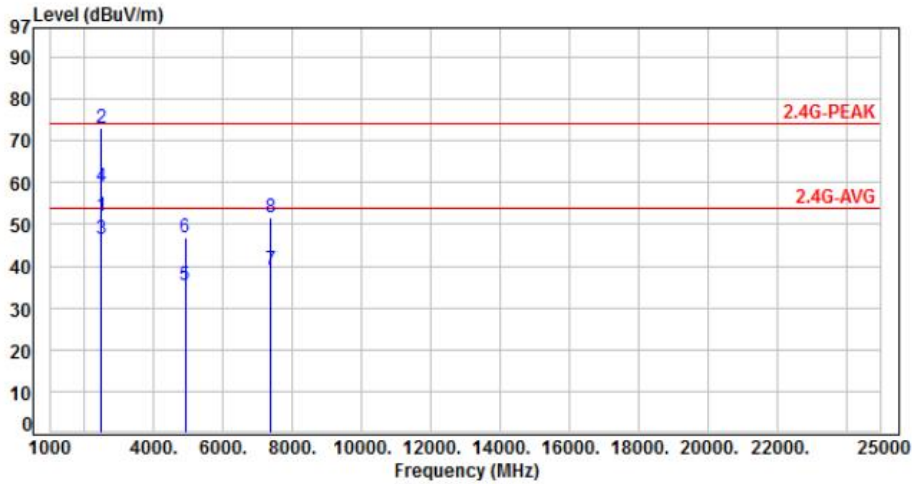


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	49.22	45.92	54.00	-8.08	Average	146	125	P
2	2483.50	-3.30	72.97	69.67	74.00	-4.33	Peak	146	125	P
3	2496.00	-3.27	45.21	41.94	54.00	-12.06	Average	146	125	P
4	2496.00	-3.27	61.00	57.73	74.00	-16.27	Peak	146	125	P
5	4904.00	4.05	33.25	37.30	54.00	-16.70	Average	288	174	P
6	4904.00	4.05	50.45	54.50	74.00	-19.50	Peak	288	174	P
7	7356.00	8.86	30.18	39.04	54.00	-14.96	Average	100	151	P
8	7356.00	8.86	43.19	52.05	74.00	-21.95	Peak	100	151	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 6, CH09		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2483.50	-3.30	55.33	52.03	54.00	-1.97	Average	160	0	P
2	2483.50	-3.30	76.27	72.97	74.00	-1.03	Peak	160	0	P
3	2496.00	-3.27	49.58	46.31	54.00	-7.69	Average	160	0	P
4	2496.00	-3.27	62.42	59.15	74.00	-14.85	Peak	160	0	P
5	4904.00	4.05	31.35	35.40	54.00	-18.60	Average	128	293	P
6	4904.00	4.05	42.71	46.76	74.00	-27.24	Peak	128	293	P
7	7356.00	8.86	30.15	39.01	54.00	-14.99	Average	100	263	P
8	7356.00	8.86	42.80	51.66	74.00	-22.34	Peak	100	263	P

Note: Level=Reading+Factor  
 Margin=Level-Limit  
 Factor=Antenna Factor + cable loss - Amplifier Factor



### 6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. Test of Conducted Spurious Emission

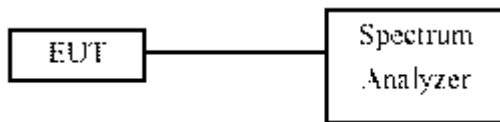
### 7.1 Test Limit

Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 7.2 Test Procedure

- a. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- c. Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- d. The band edges was measured and recorded.

### 7.3 Test Setup Layout



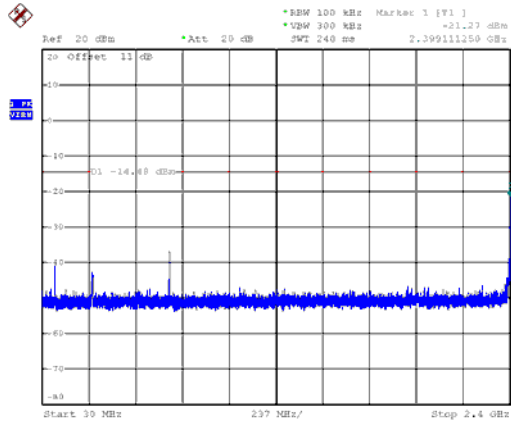
### 7.4 Test Result and Data

Note: Test plots refers to the following pages.

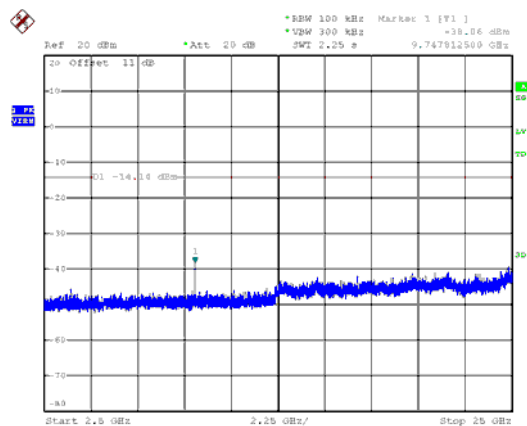
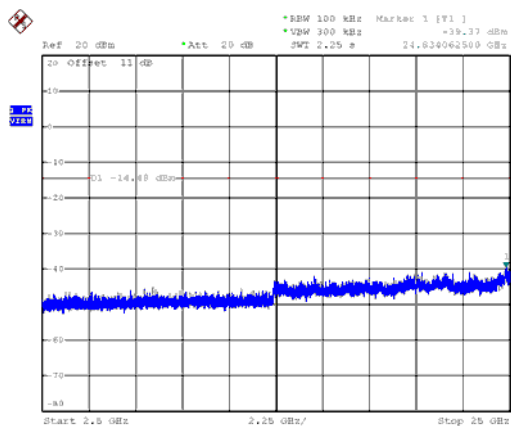
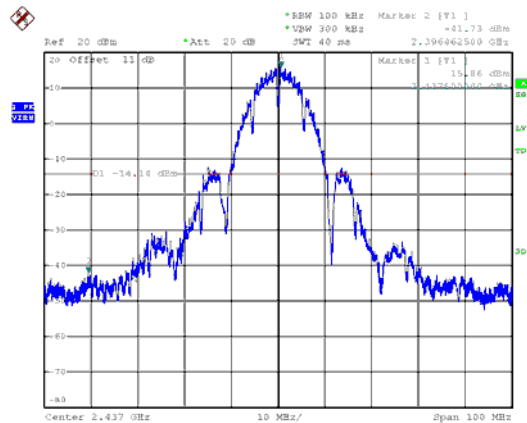
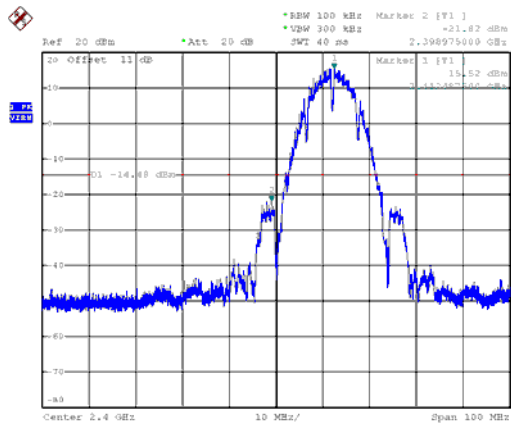
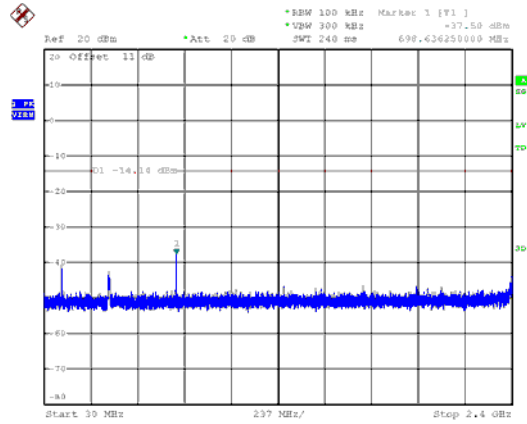


ANT A (Non-Beamforming)

Modulation Type: 802.11b, CH 01



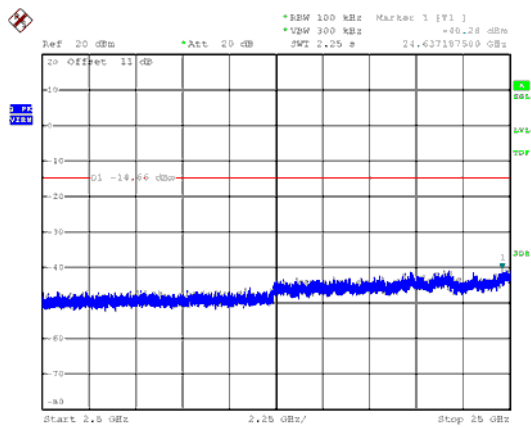
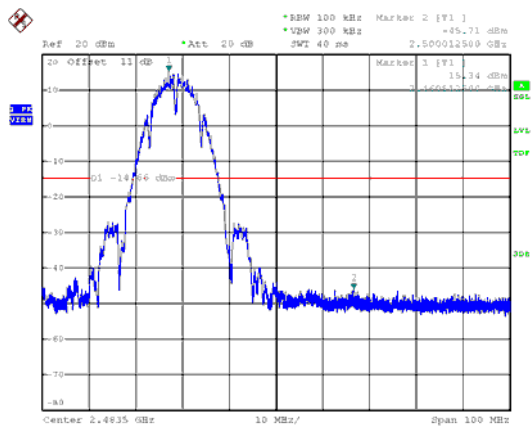
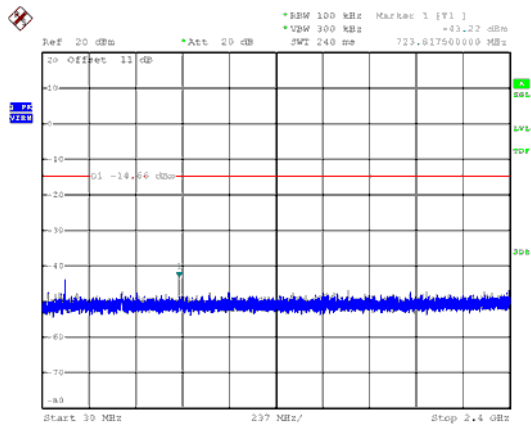
Modulation Type: 802.11b, CH 06





ANT A(Non-Beamforming)

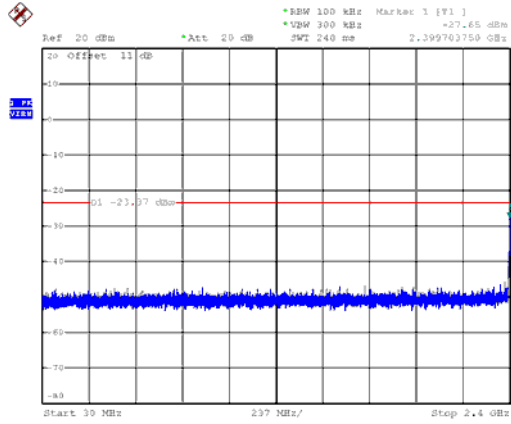
Modulation Type: 802.11b, CH 11



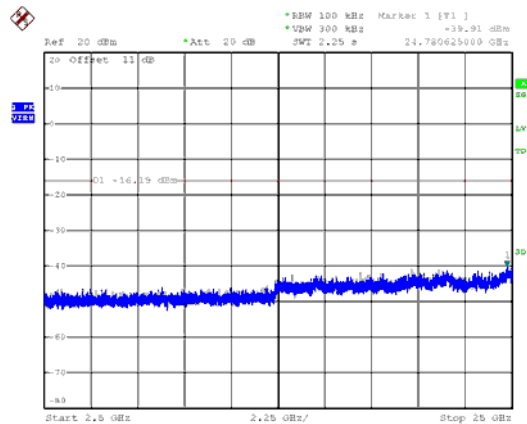
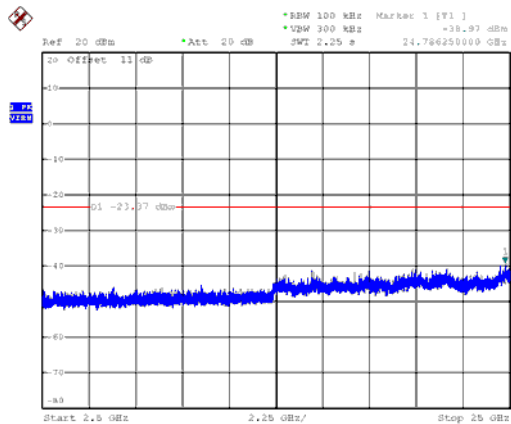
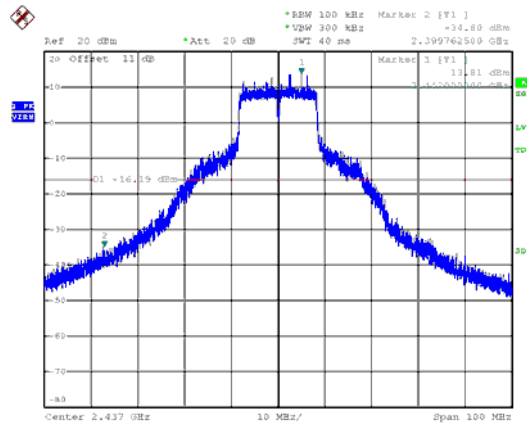
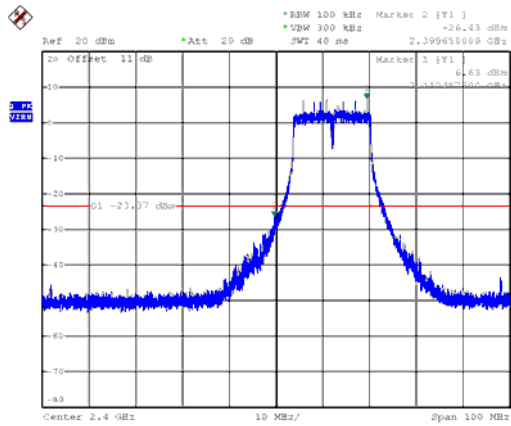
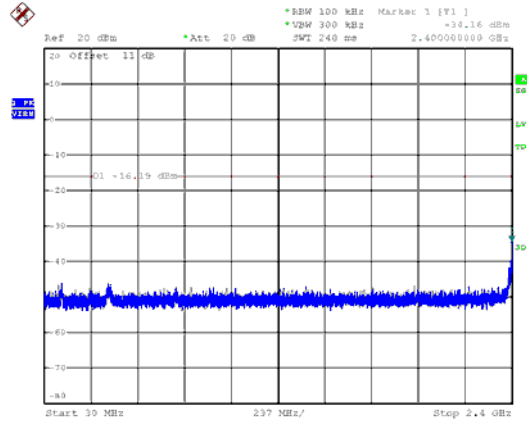


ANT A(Non-Beamforming)

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06

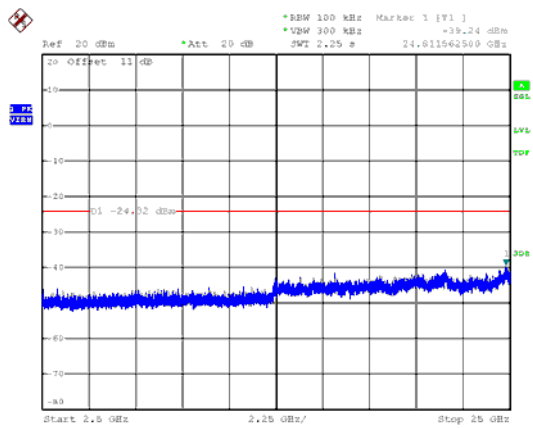
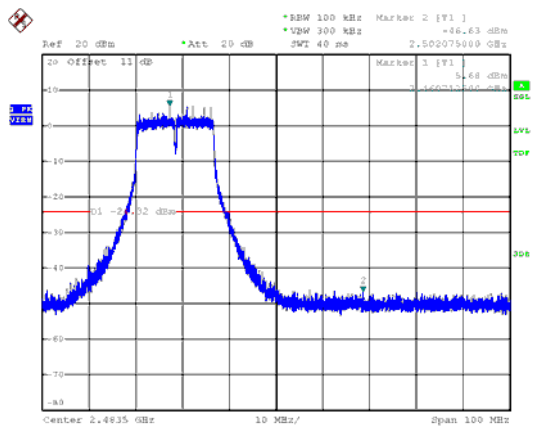
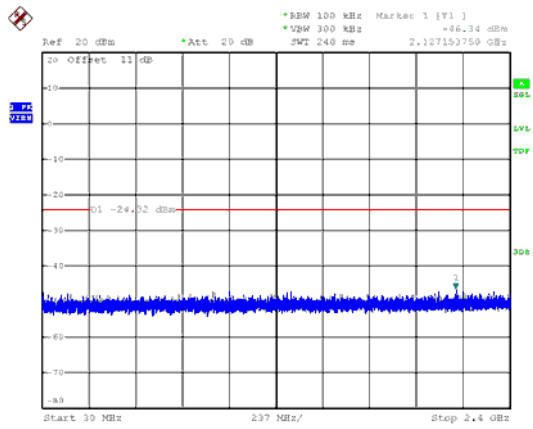






ANT A(Non-Beamforming)

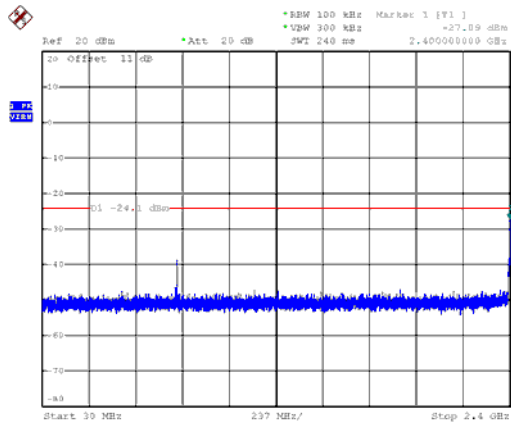
Modulation Type: 802.11g, CH 11



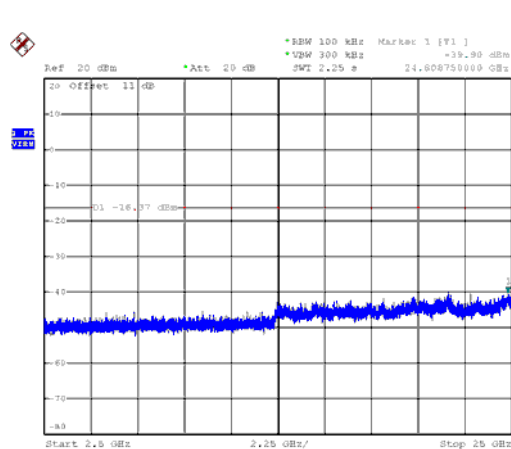
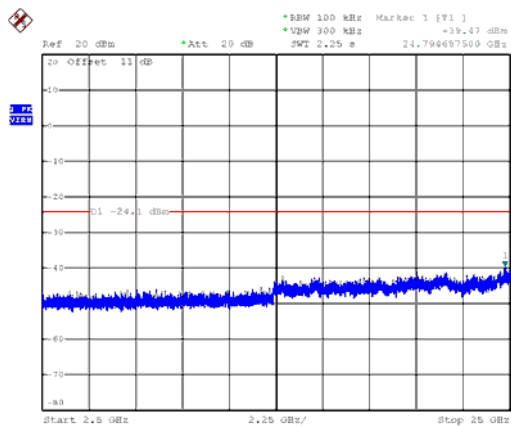
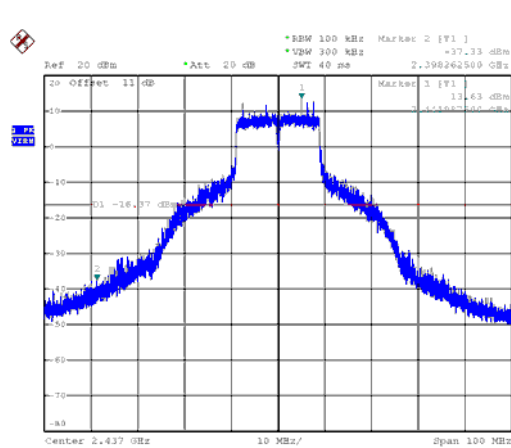
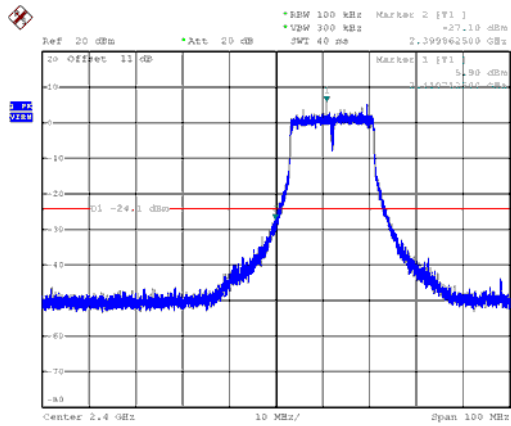
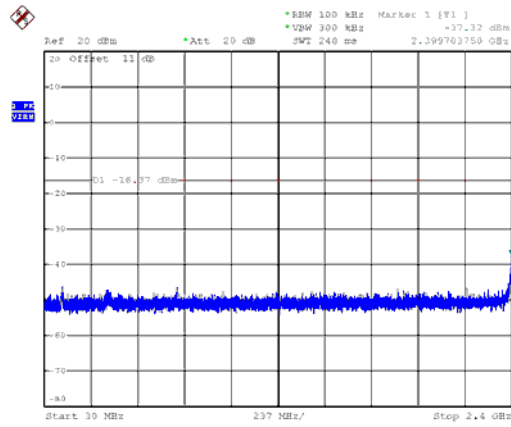


ANT A(Non-Beamforming)

Modulation Type: VHT20, CH01



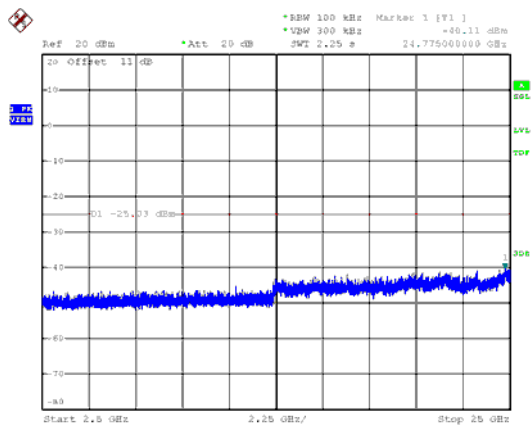
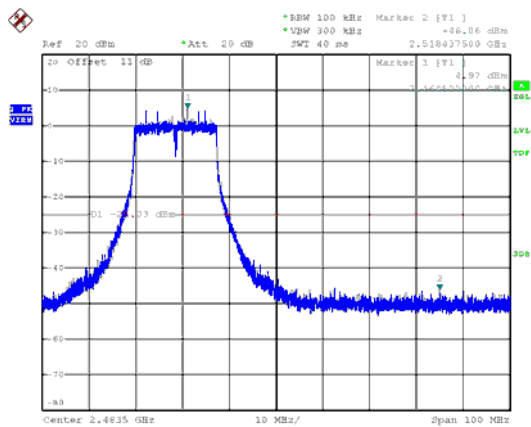
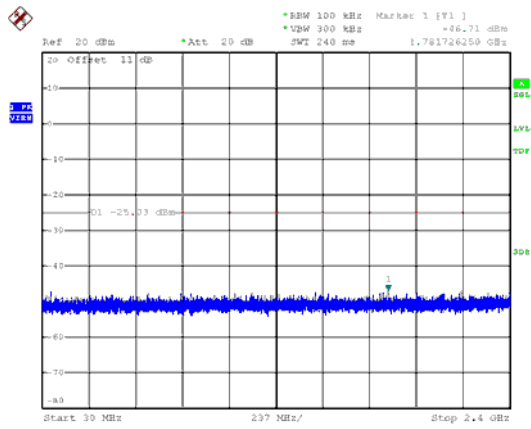
Modulation Type: VHT20, CH06





ANT A(Non-Beamforming)

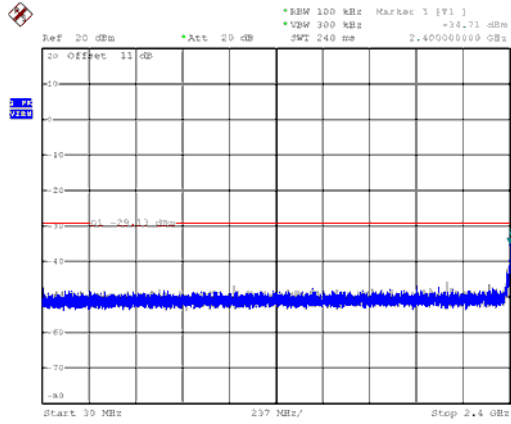
Modulation Type: VHT20, CH11



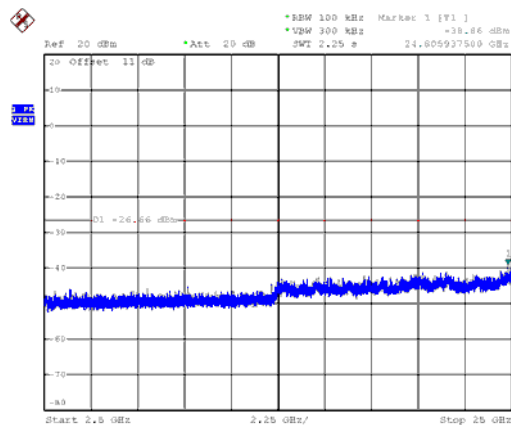
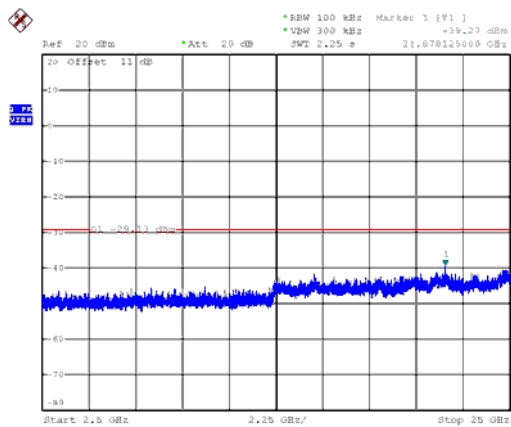
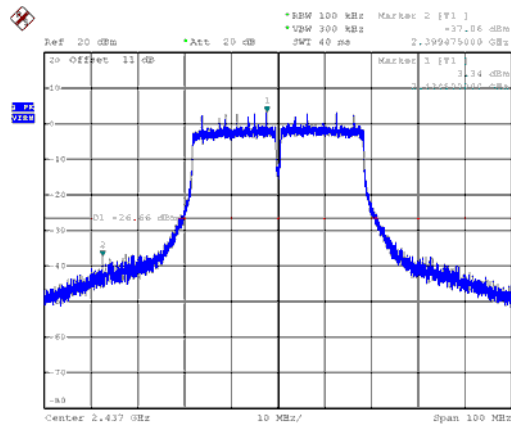
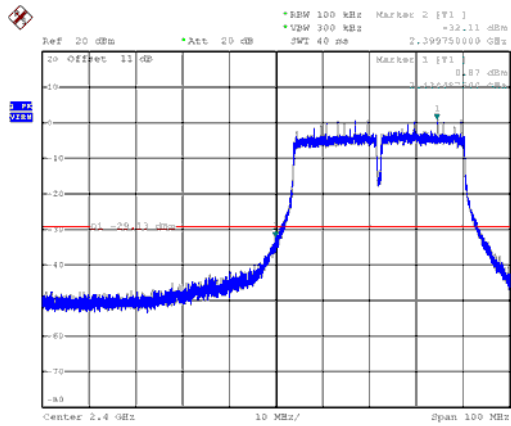
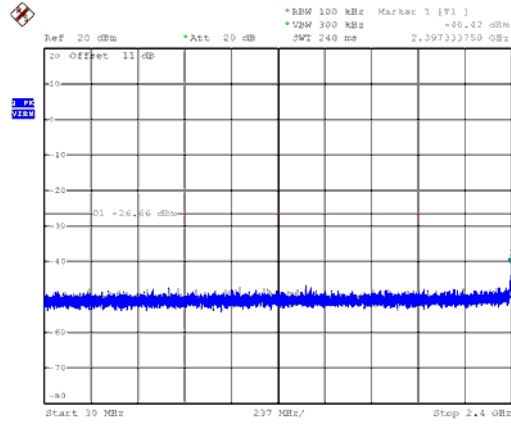


ANT A(Non-Beamforming)

Modulation Type: VHT40, CH03



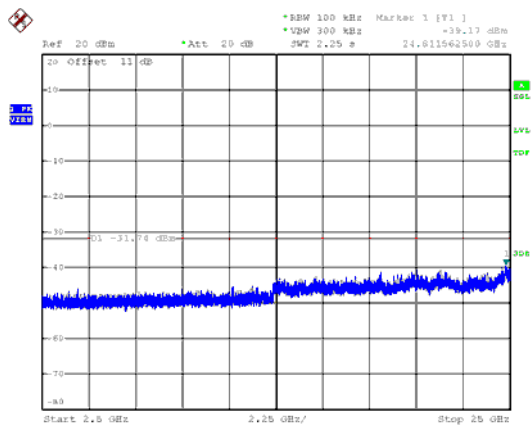
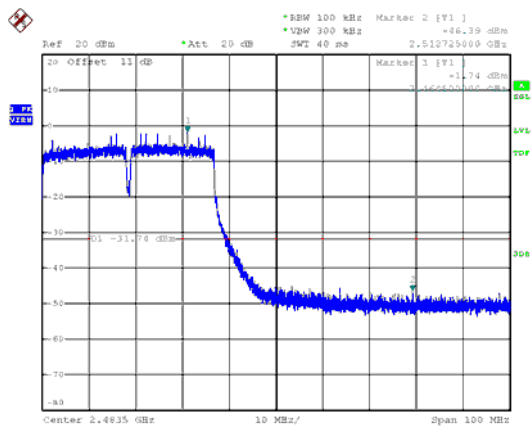
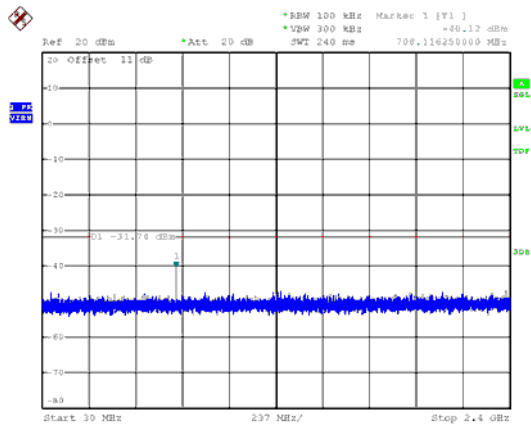
Modulation Type: VHT40, CH06





ANT A(Non-Beamforming)

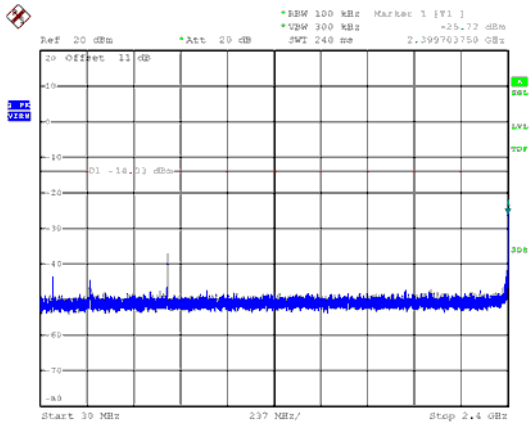
Modulation Type: VHT40, CH09



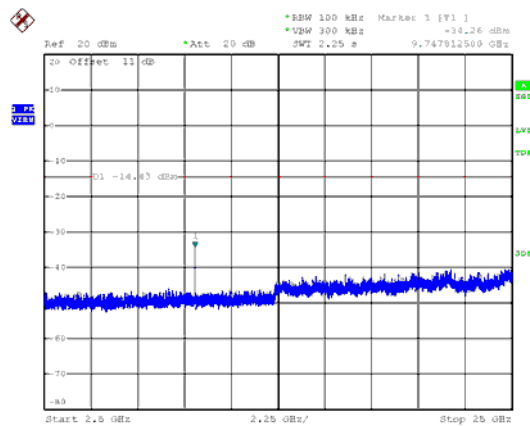
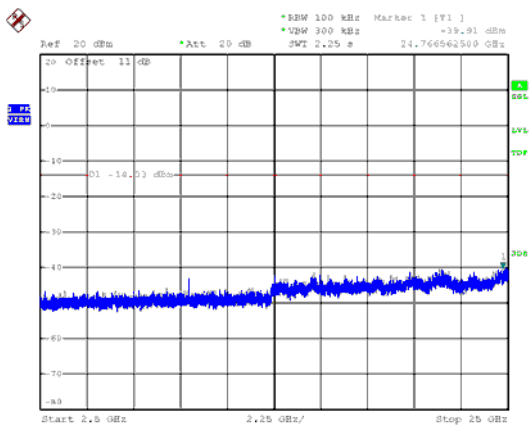
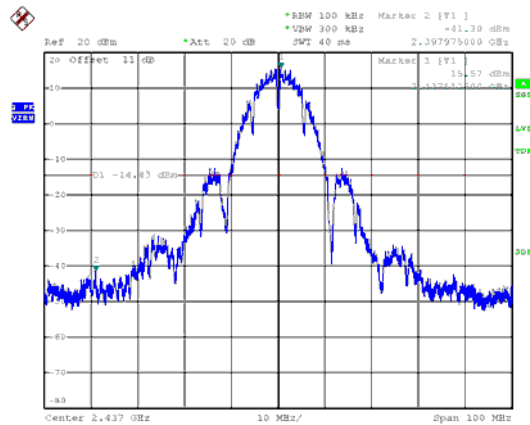
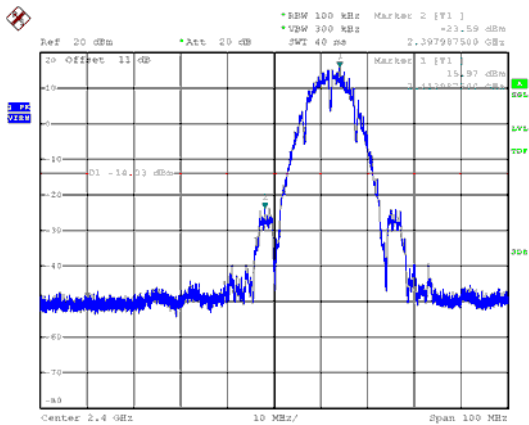
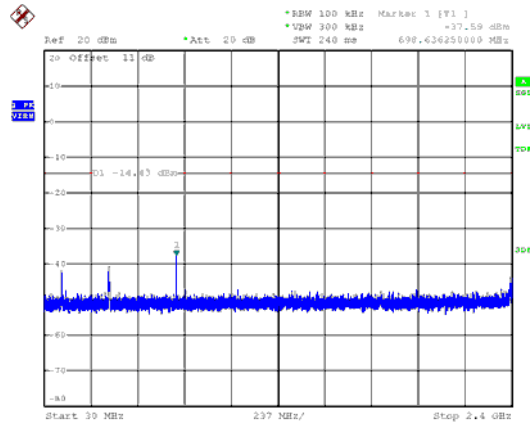


ANT B(Non-Beamforming)

Modulation Type: 802.11b, CH 01



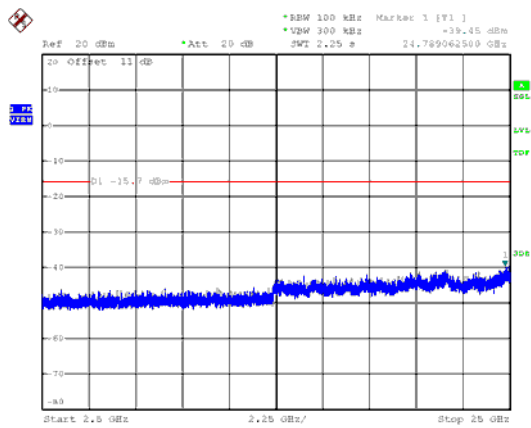
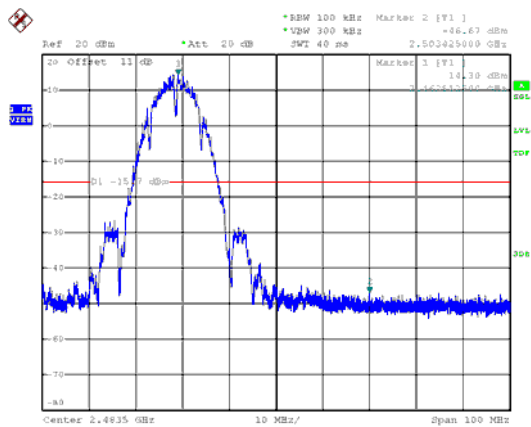
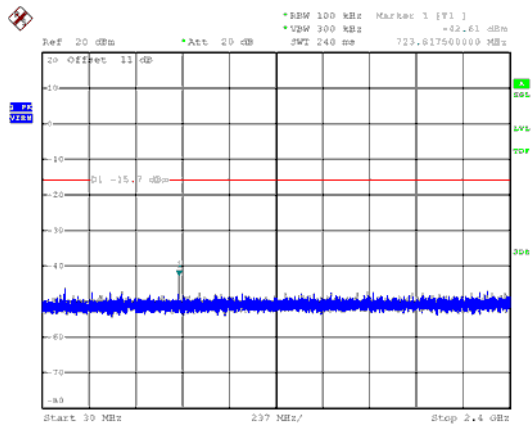
Modulation Type: 802.11b, CH 06





ANT B(Non-Beamforming)

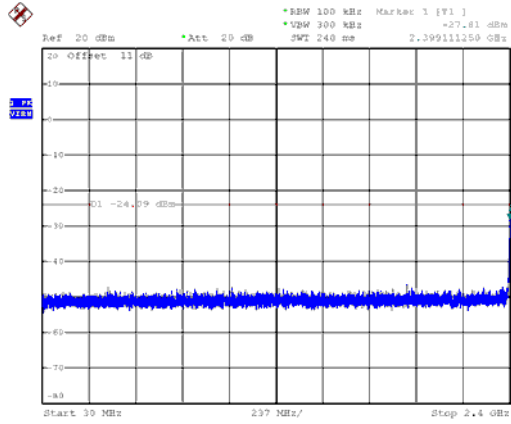
Modulation Type: 802.11b, CH 11



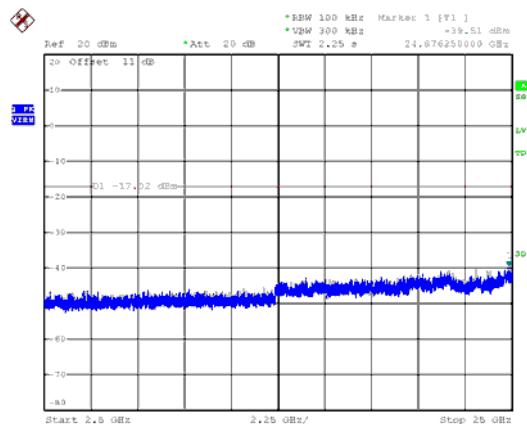
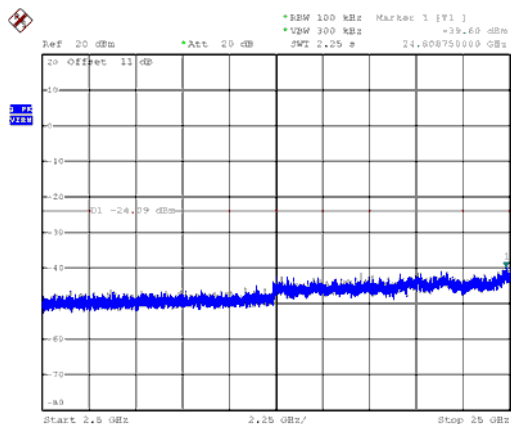
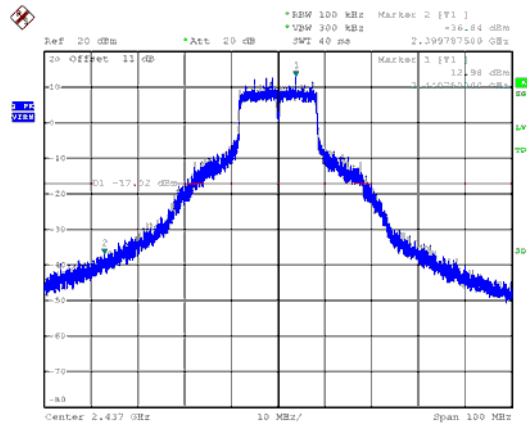
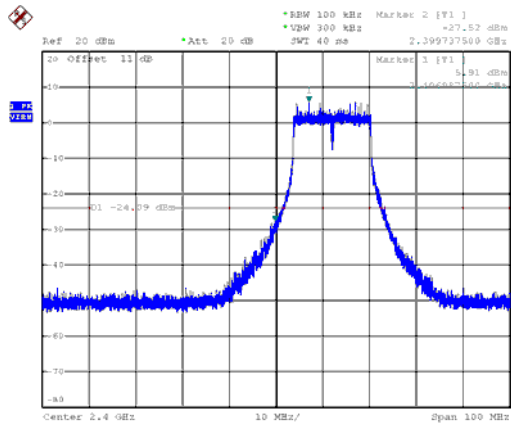
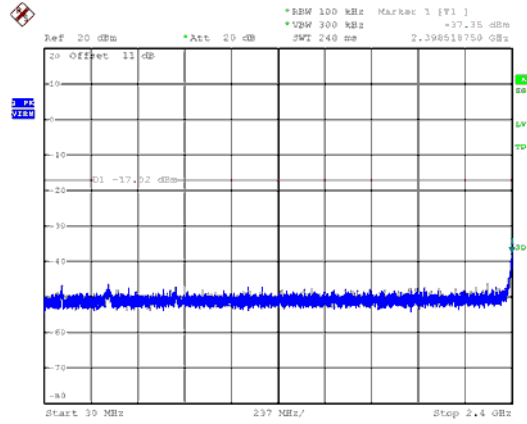


ANT B(Non-Beamforming)

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06

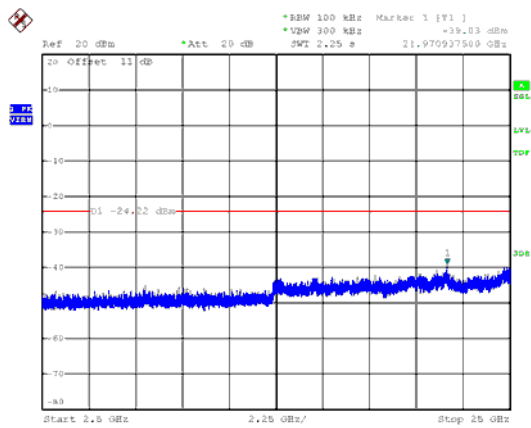
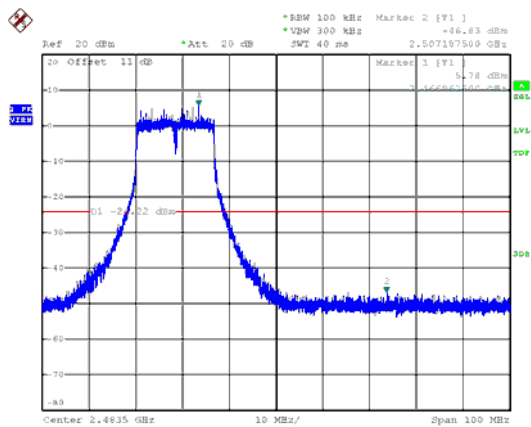
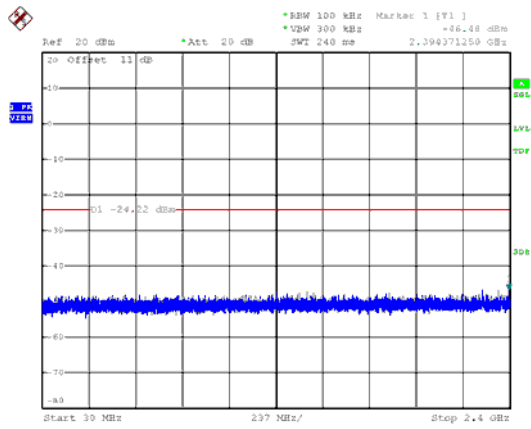






ANT B(Non-Beamforming)

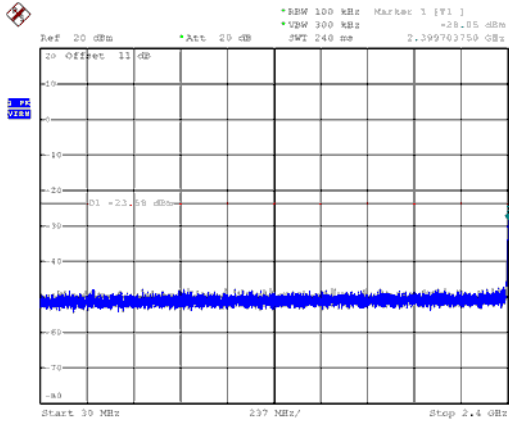
Modulation Type: 802.11g, CH 11



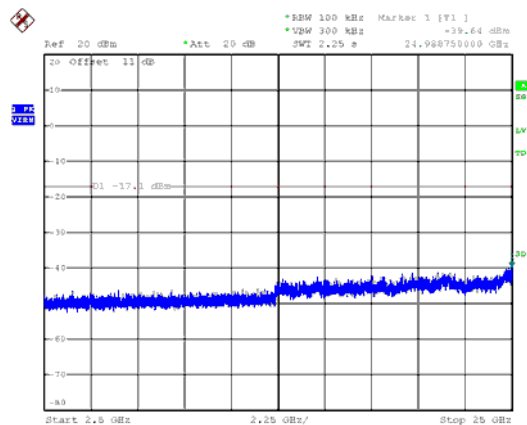
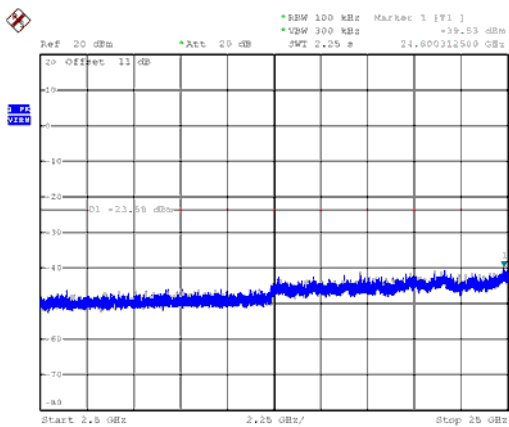
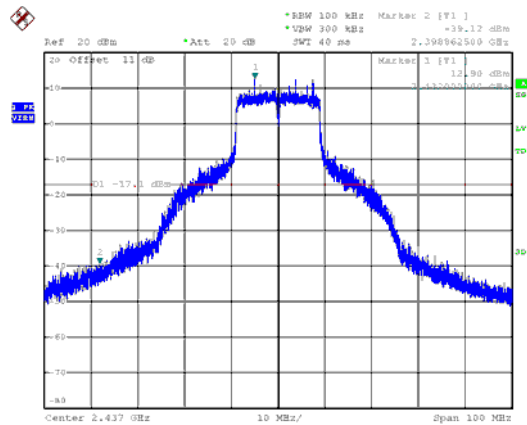
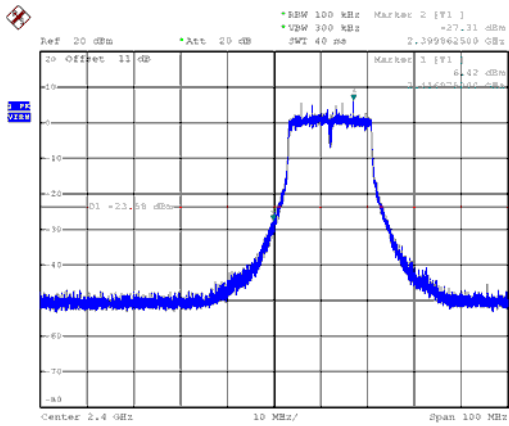
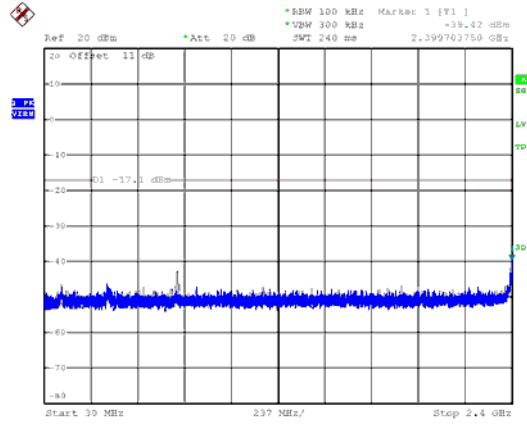


ANT B(Non-Beamforming)

Modulation Type: VHT20, CH01



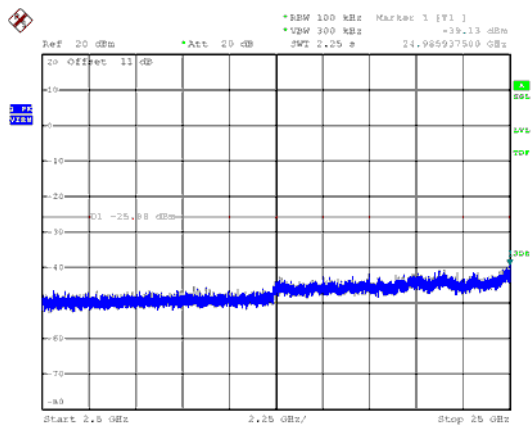
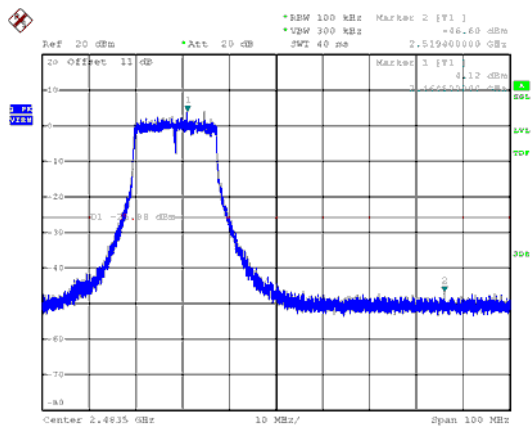
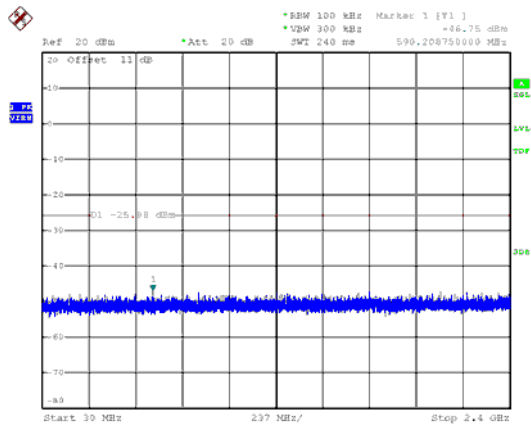
Modulation Type: VHT20, CH06





ANT B(Non-Beamforming)

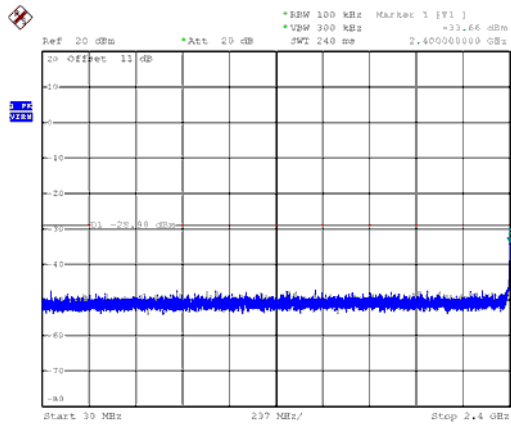
Modulation Type: VHT20, CH11



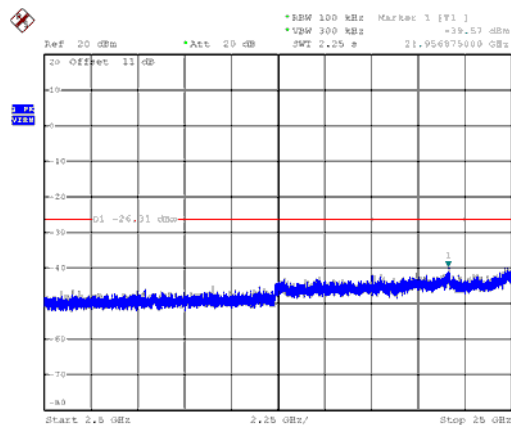
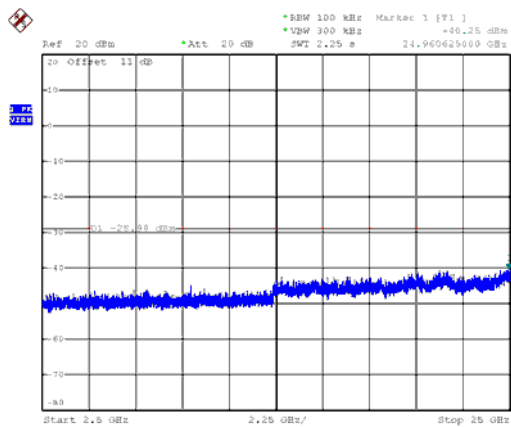
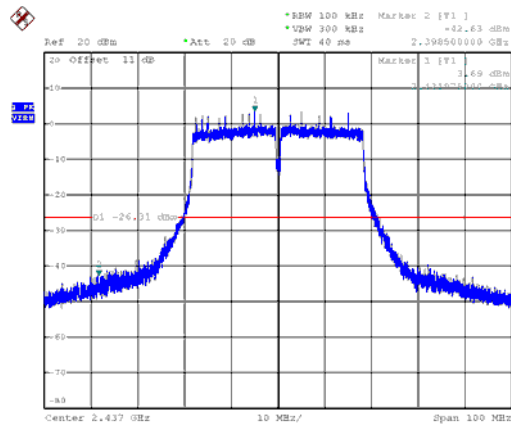
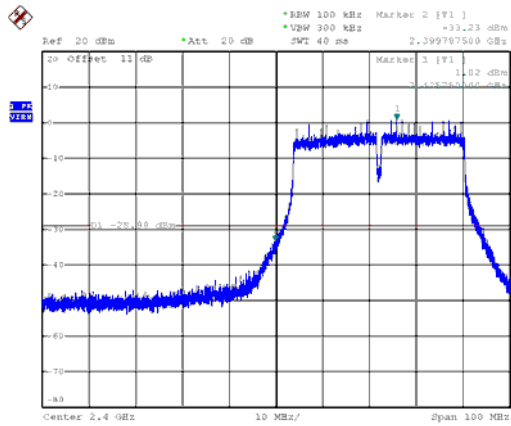
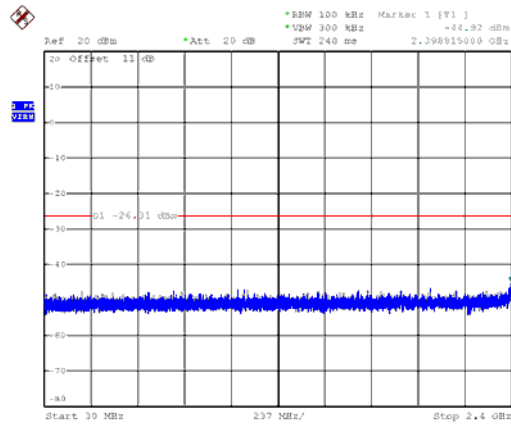


ANT B(Non-Beamforming)

Modulation Type: VHT40, CH03



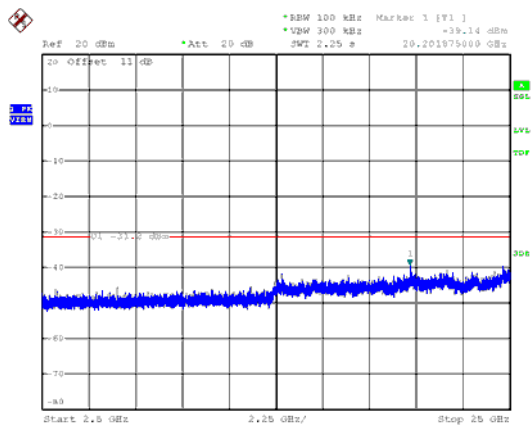
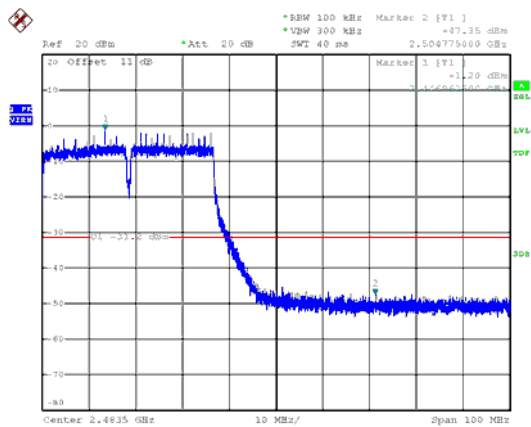
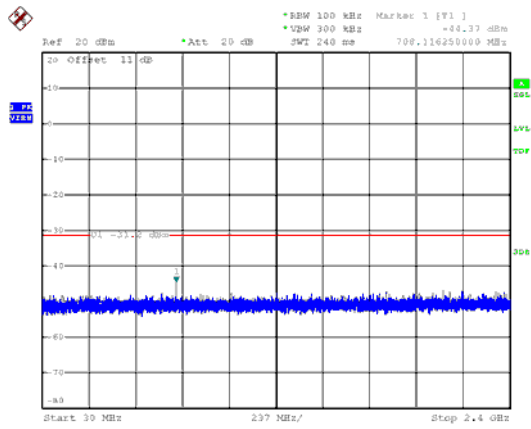
Modulation Type: VHT40, CH06





ANT B(Non-Beamforming)

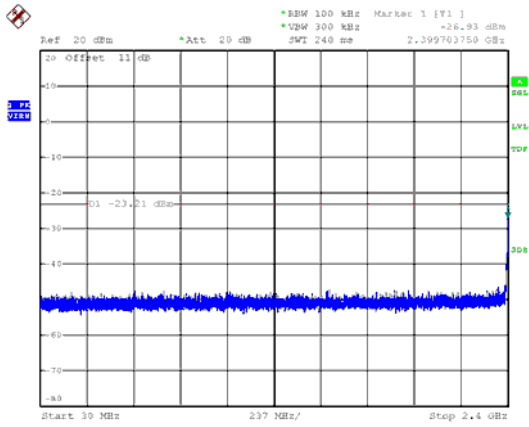
Modulation Type: VHT40, CH09



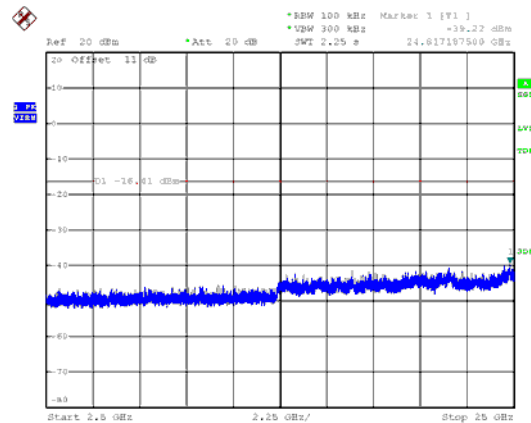
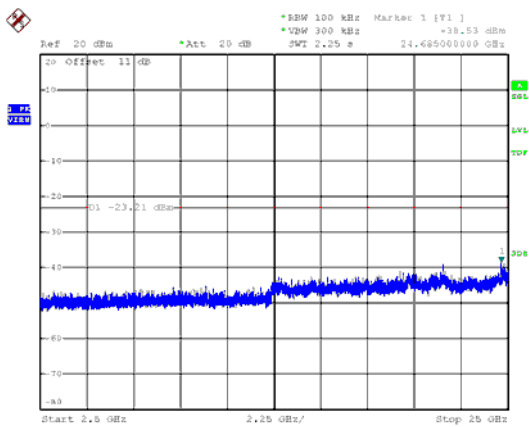
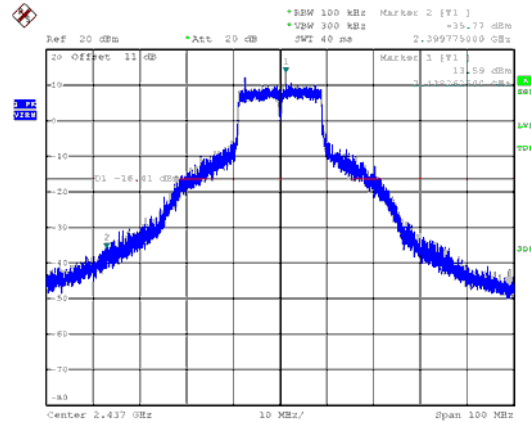
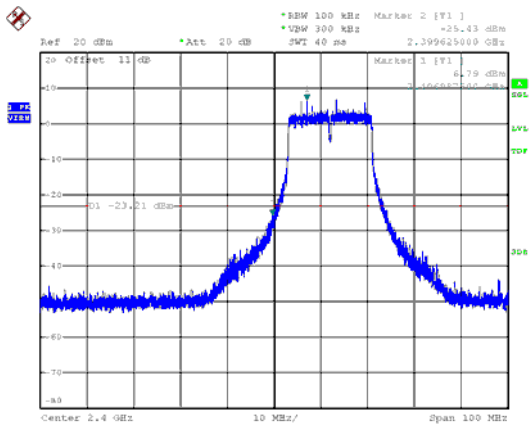
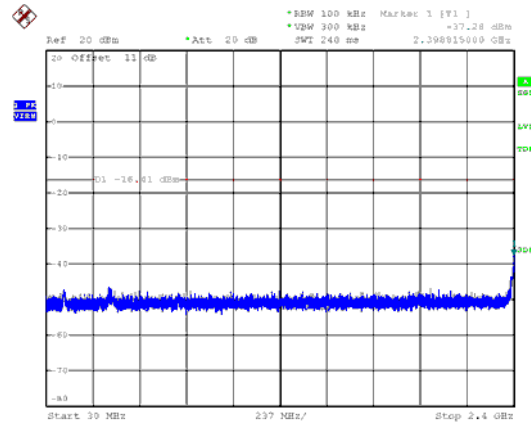


ANT A (Beamforming)

Modulation Type: VHT20, CH01



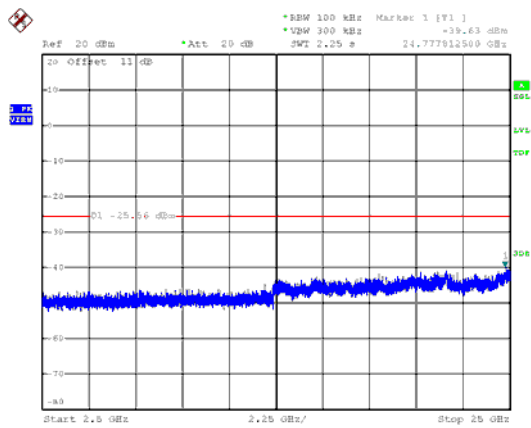
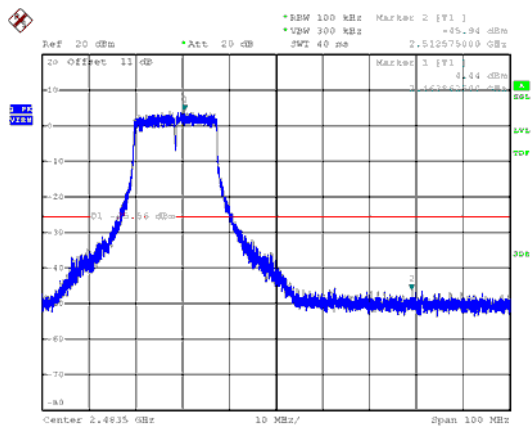
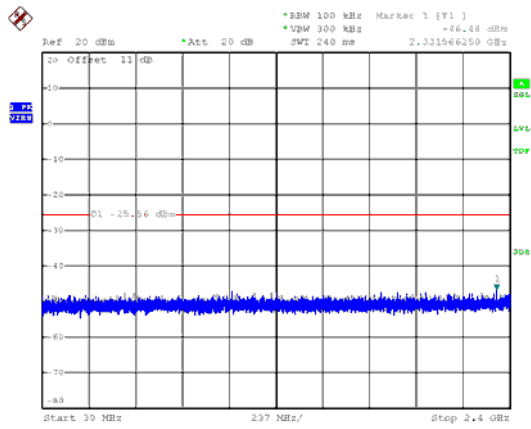
Modulation Type: VHT20, CH06





ANT A(Beamforming)

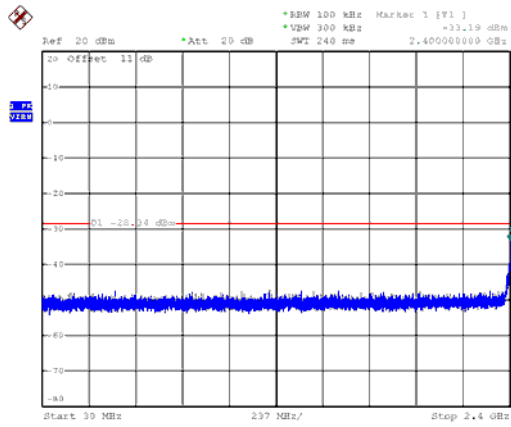
Modulation Type: VHT20, CH11



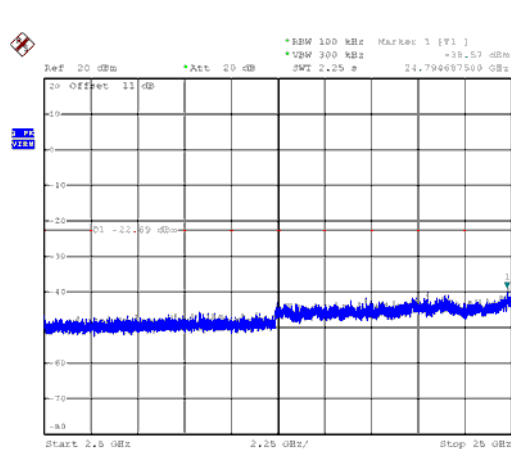
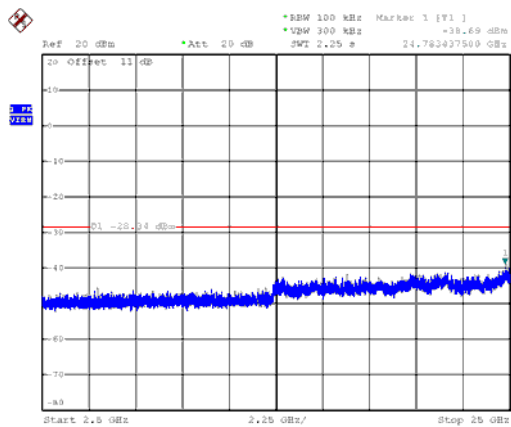
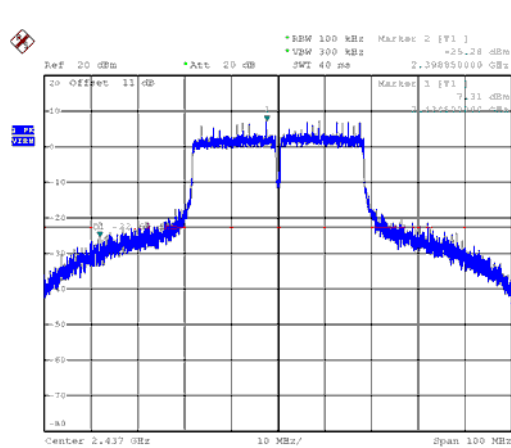
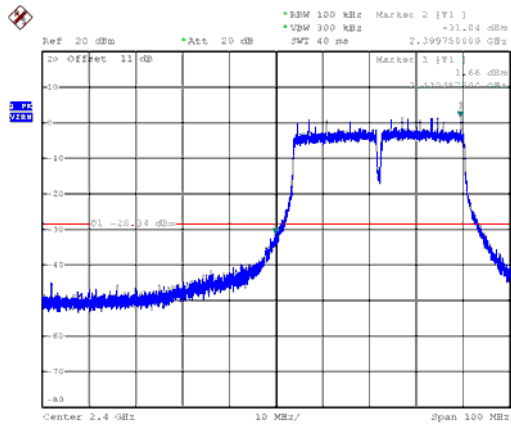
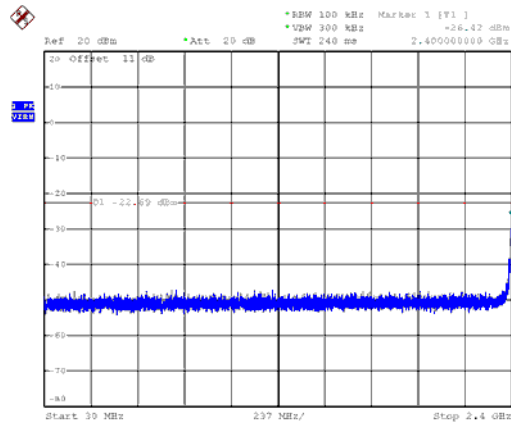


ANT A(Beamforming)

Modulation Type: VHT40, CH03



Modulation Type: VHT40, CH06

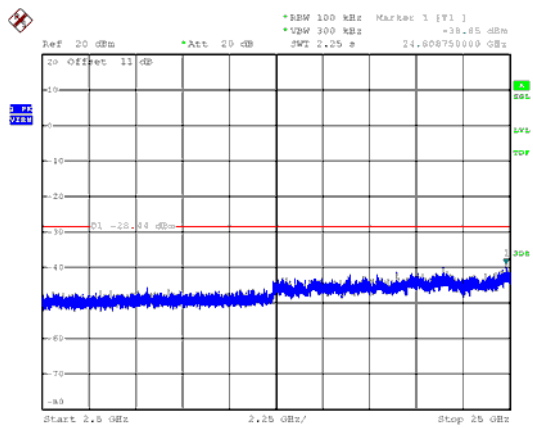
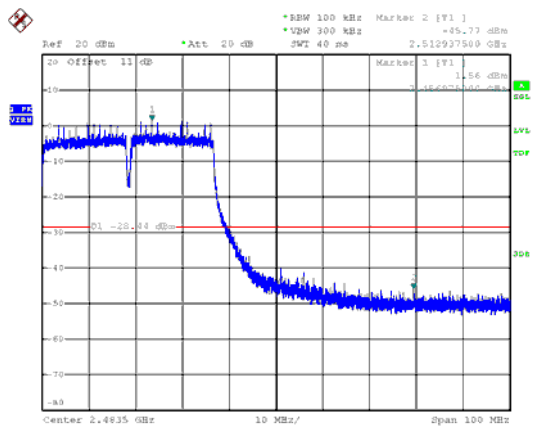
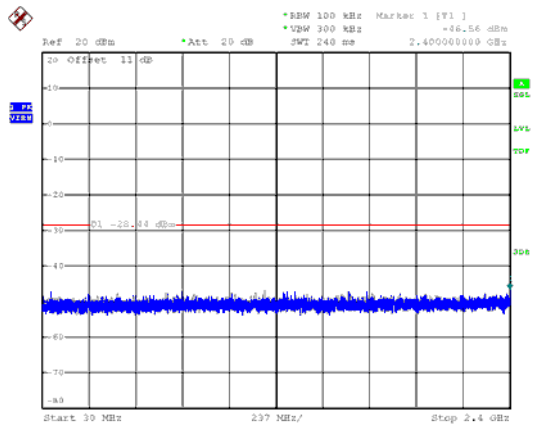






ANT A(Beamforming)

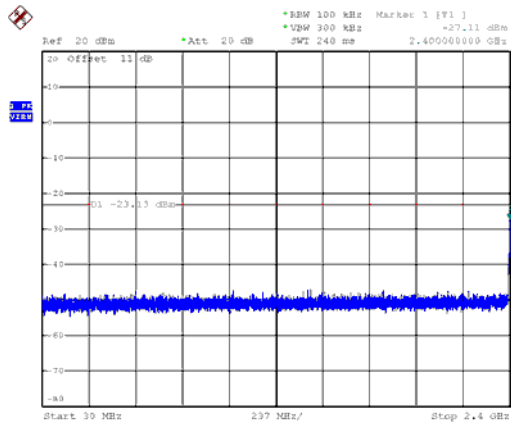
Modulation Type: VHT40, CH09



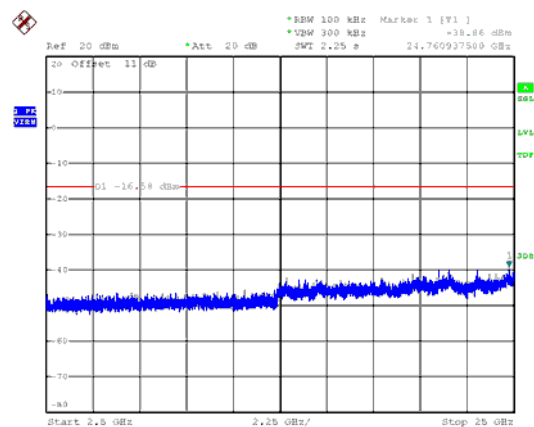
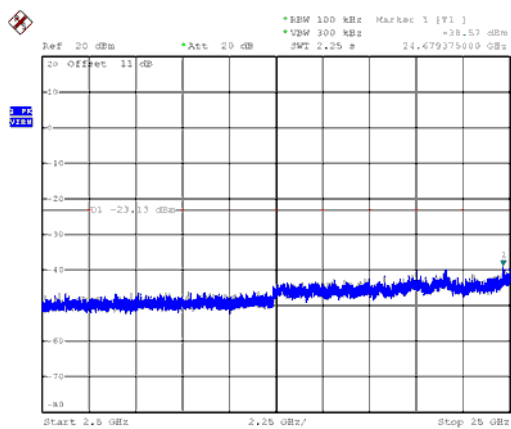
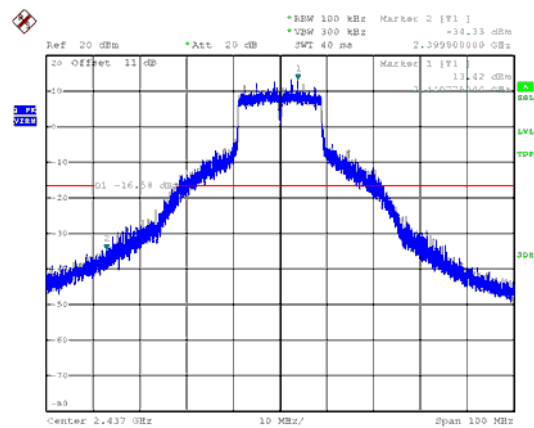
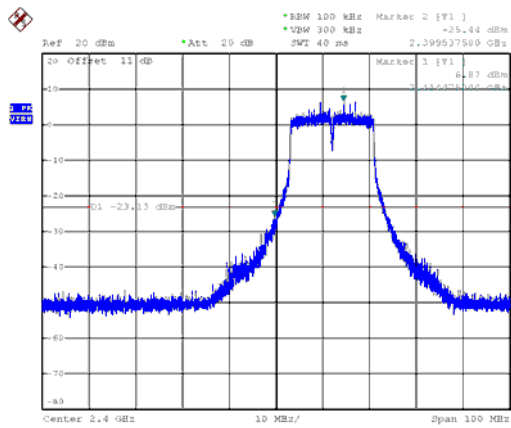
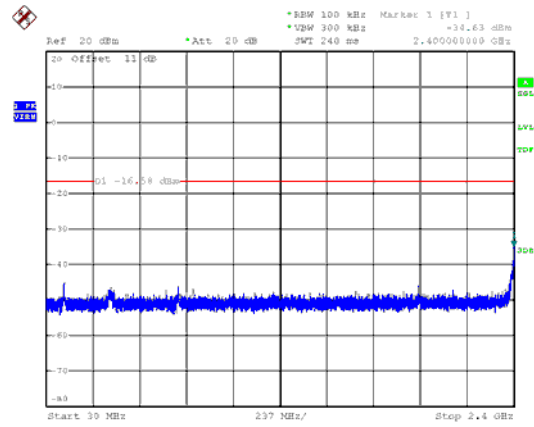


ANT B(Beamforming)

Modulation Type: VHT20, CH01



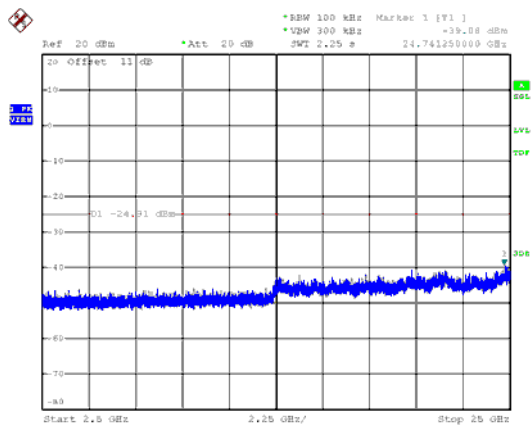
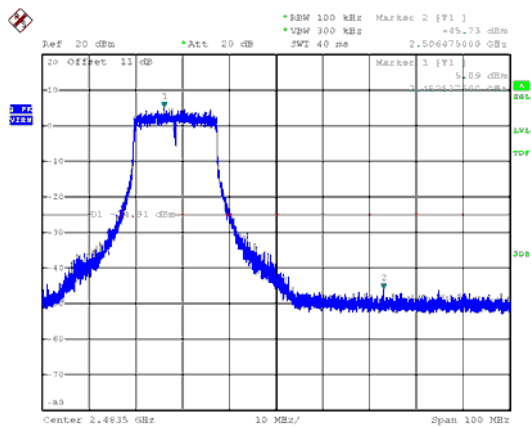
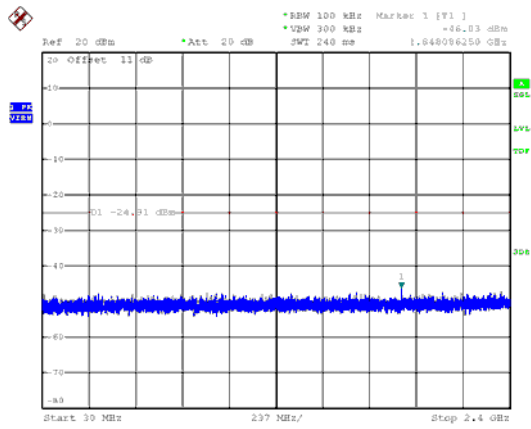
Modulation Type: VHT20, CH06





### ANT B(Beamforming)

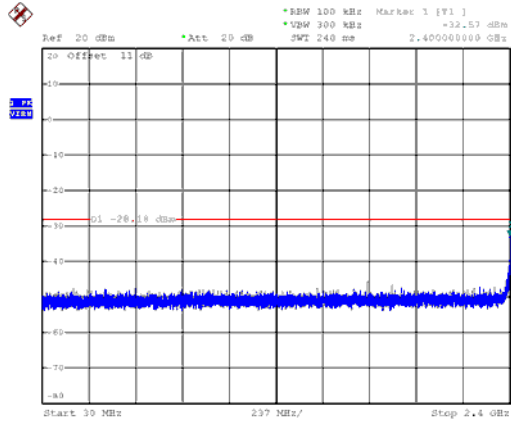
Modulation Type: VHT20, CH11



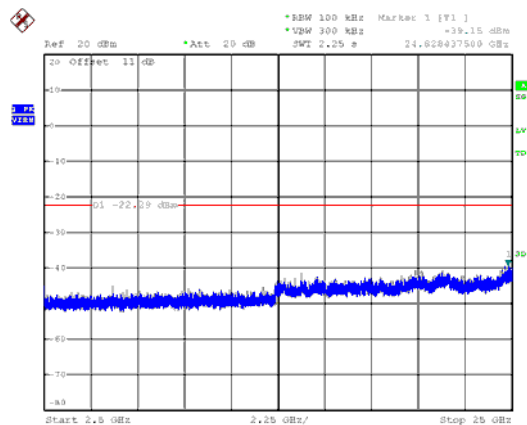
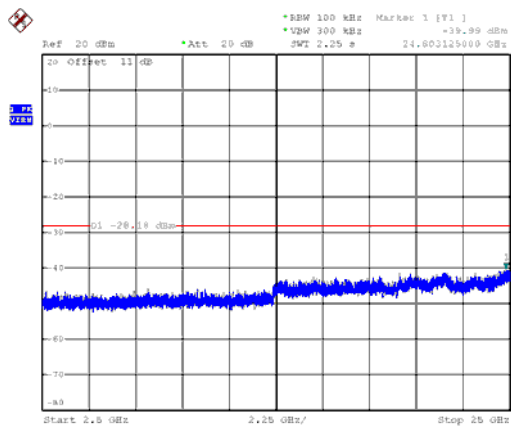
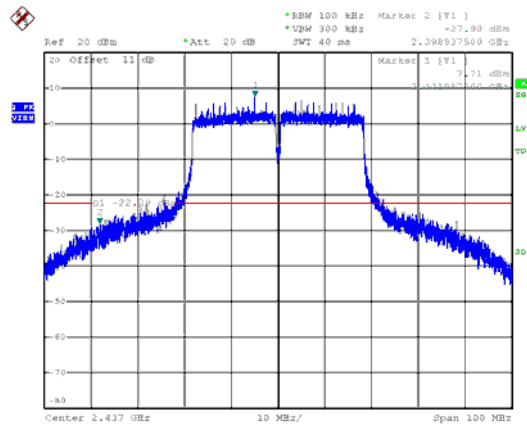
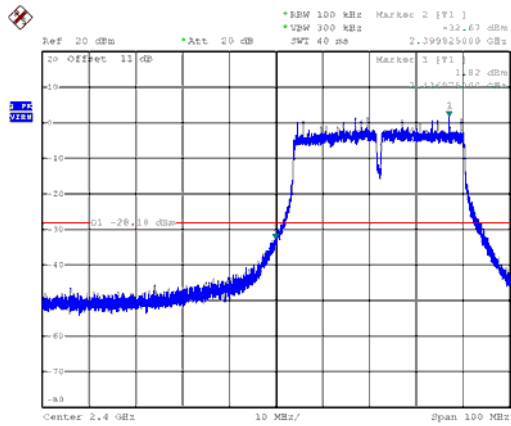
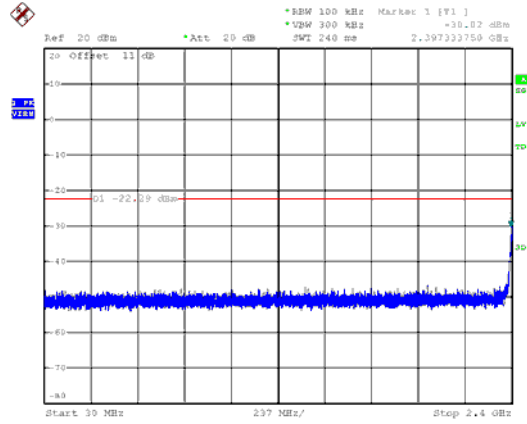


ANT B(Beamforming)

Modulation Type: VHT40, CH03



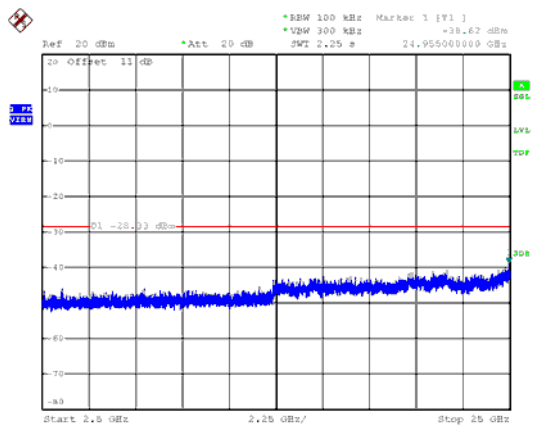
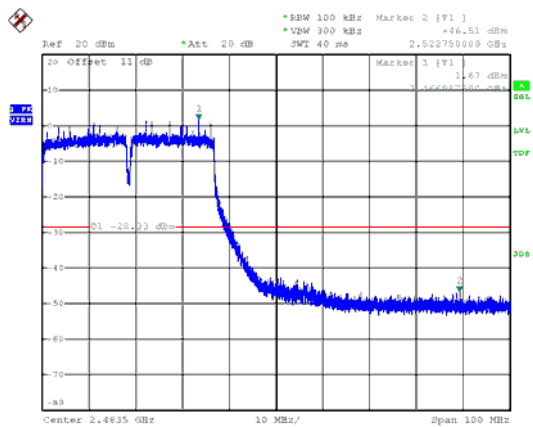
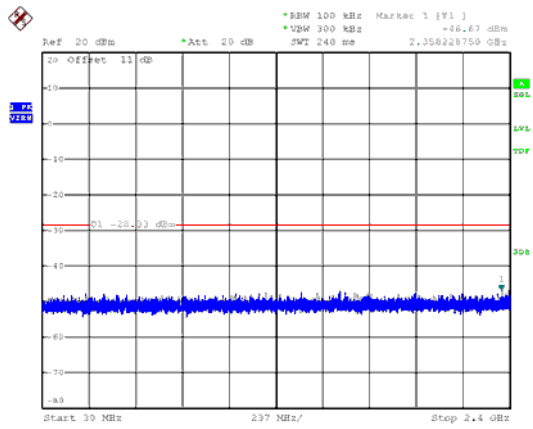
Modulation Type: VHT40, CH06





### ANT B(Beamforming)

Modulation Type: VHT40, CH09





## 8. On Time, Duty Cycle and Measurement methods

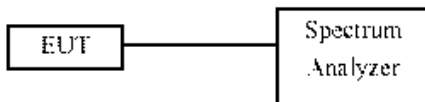
### 8.1 Test Limit

None; for reporting purposes only.

### 8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

### 8.3 Test Setup Layout



### 8.4 Test Result and Data

#### (Non-Beamforming)

Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
11b,1M	12.46	12.54	99.36%
11g,6M	2.07	2.16	95.83%
VHT20	5.02	5.10	98.43%
VHT40	2.45	2.53	96.76%

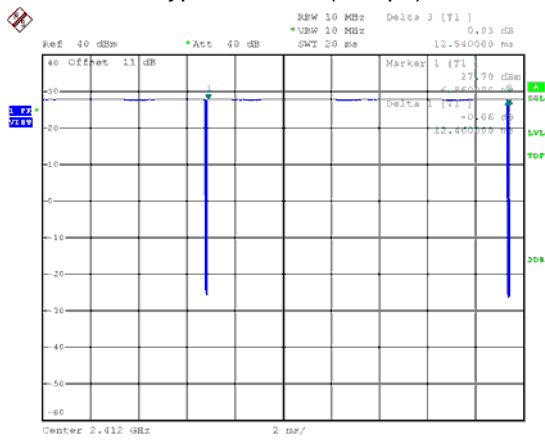
#### (Beamforming)

Modulation Type	On Time (msec)	Period Time (msec)	Duty Cycle (%)
VHT20	1.78	1.92	92.45%
VHT40	1.70	1.86	91.80%

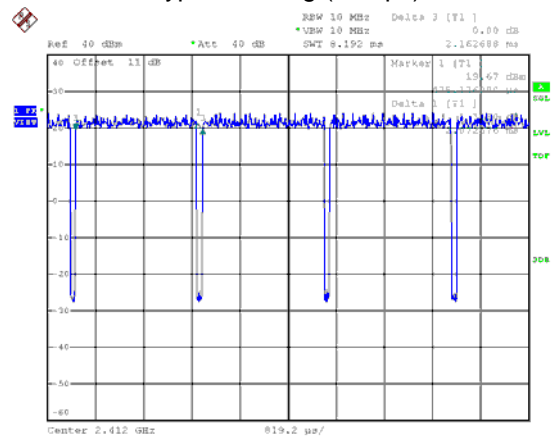


**(Non-Beamforming)**

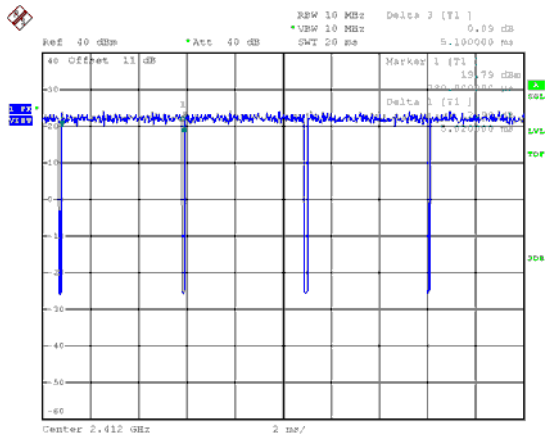
Modulation Type: 802.11b (1Mbps)



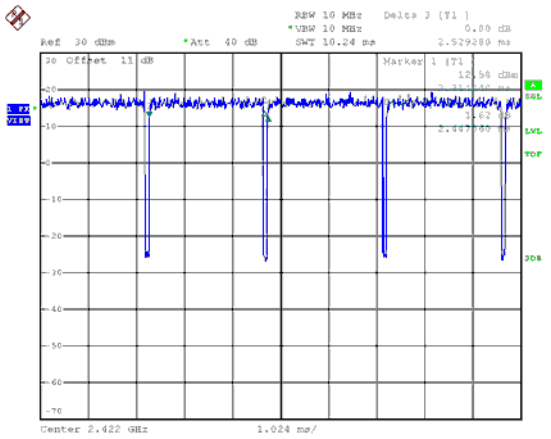
Modulation Type: 802.11g (6Mbps)



Modulation Type: VHT20 (6.5Mbps)



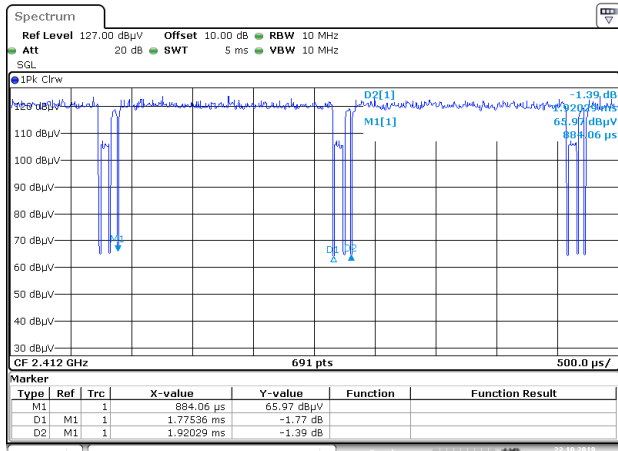
Modulation Type: VHT40 (13.5Mbps)



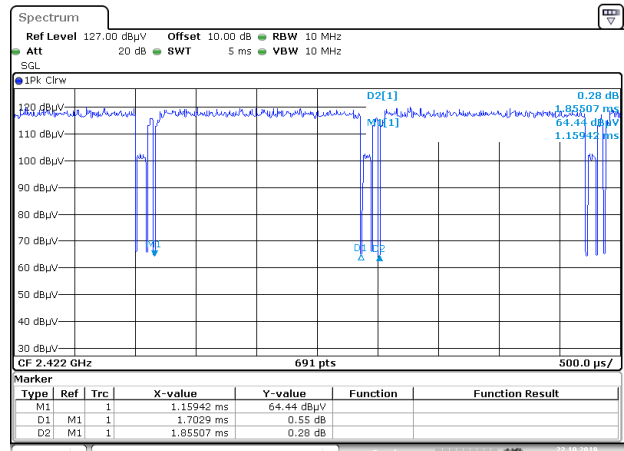


(Beamforming)

Modulation Type: VHT20 (6.5Mbps)



Modulation Type: VHT40 (13.5Mbps)







## 9. 6dB Bandwidth Measurement Data

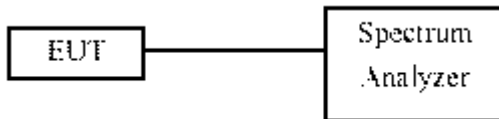
### 9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 9.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

### 9.3 Test Setup Layout





**9.4 Test Result and Data**

**(Non-Beamforming)**

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
11b	01	2412	8.10	7.60	---	---	0.5
	06	2437	10.05	10.05	---	---	0.5
	11	2462	8.05	8.05	---	---	0.5
11g	01	2412	16.40	16.40	---	---	0.5
	06	2437	16.30	16.35	---	---	0.5
	11	2462	16.35	16.45	---	---	0.5
VHT20	01	2412	17.65	17.65	---	---	0.5
	06	2437	17.55	17.60	---	---	0.5
	11	2462	17.55	17.60	---	---	0.5
VHT40	03	2422	36.20	36.40	---	---	0.5
	06	2437	36.30	36.30	---	---	0.5
	09	2452	36.10	36.30	---	---	0.5

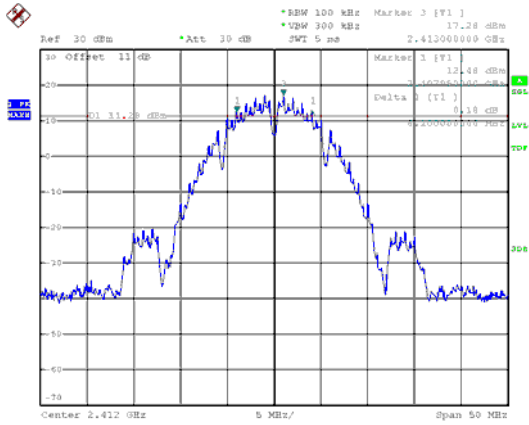
**(Beamforming)**

Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Limit (MHz)
			ANT A	ANT B	ANT C	ANT D	
VHT20	01	2412	17.65	17.60	---	---	0.5
	06	2437	17.60	17.55	---	---	0.5
	11	2462	17.55	17.60	---	---	0.5
VHT40	03	2422	36.30	36.40	---	---	0.5
	06	2437	36.00	36.30	---	---	0.5
	09	2452	36.10	36.10	---	---	0.5

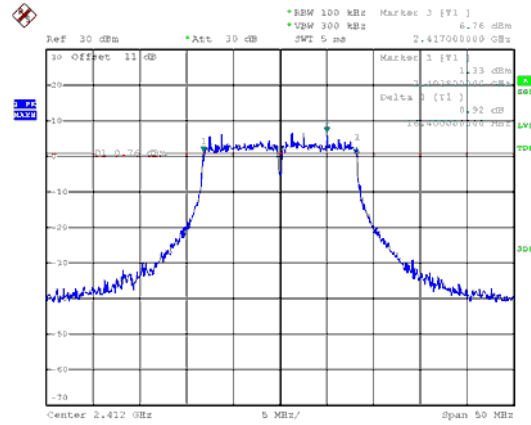


ANT A (Non-Beamforming)

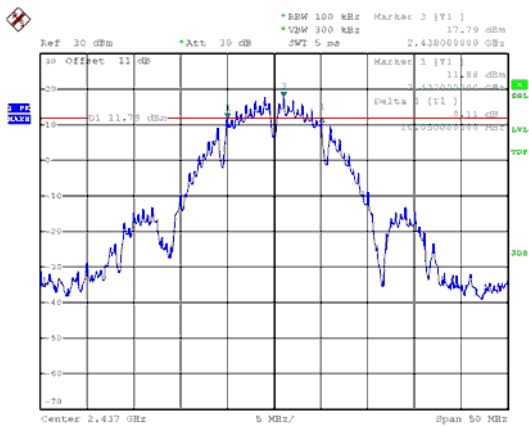
Modulation Type: 802.11b  
CH01



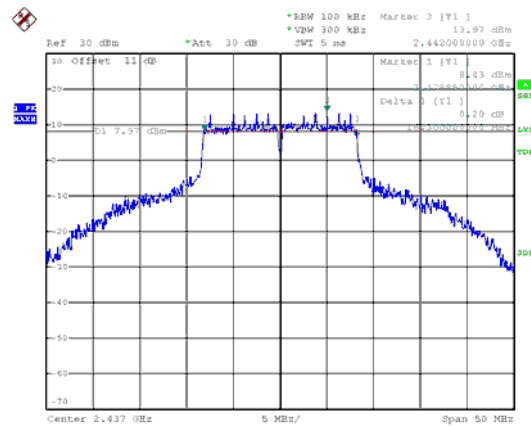
Modulation Type: 802.11g  
CH01



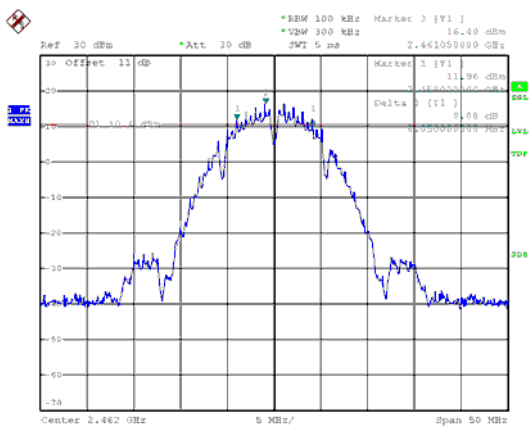
CH06



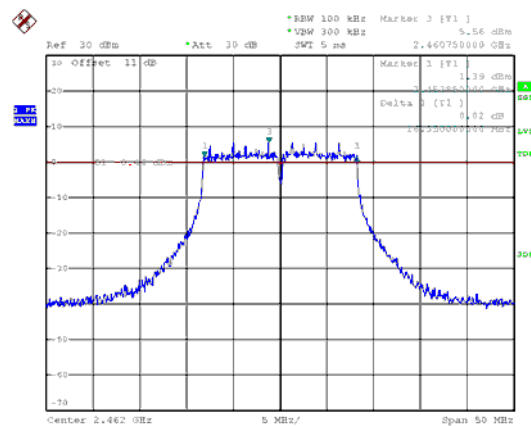
CH06



CH11



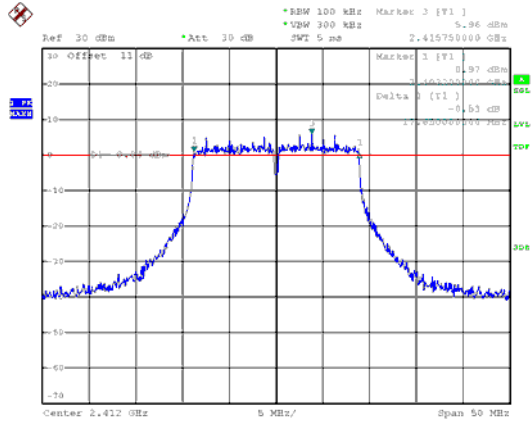
CH11



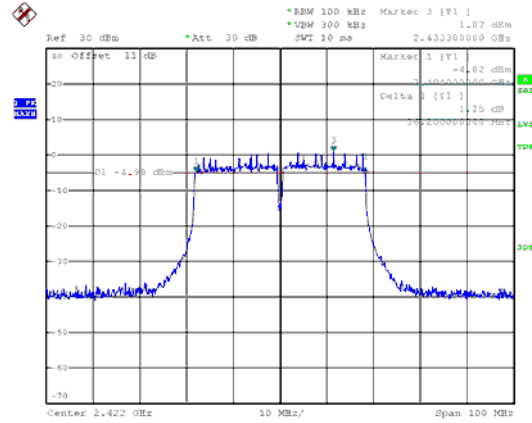


ANT A (Non-Beamforming)

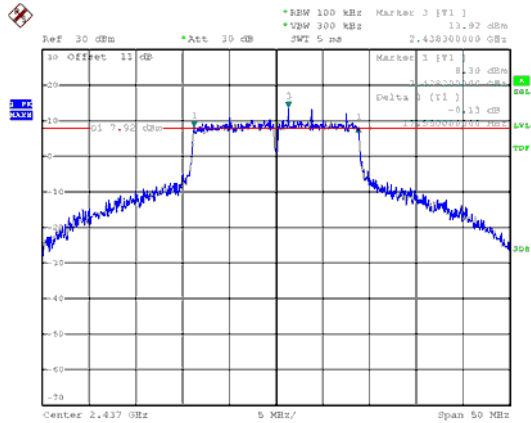
Modulation Type: VHT20  
CH01



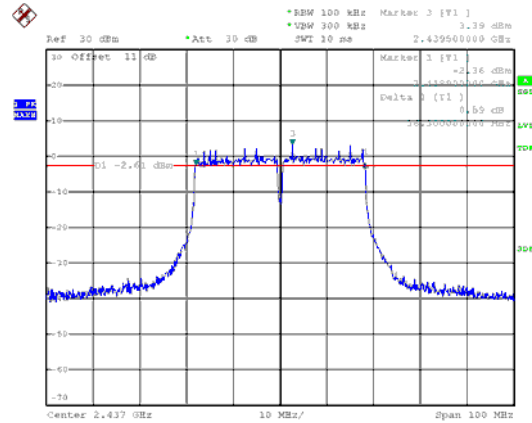
Modulation Type: VHT40  
CH03



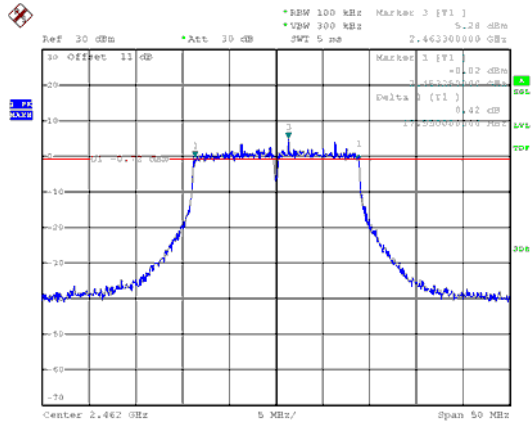
CH06



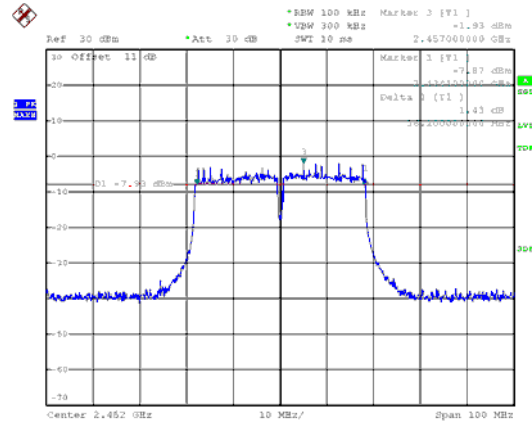
CH06



CH11

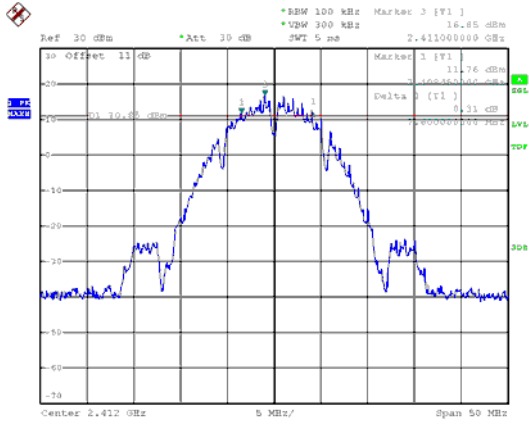


CH09

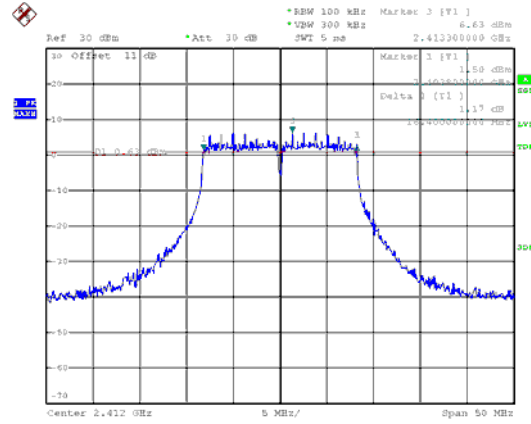




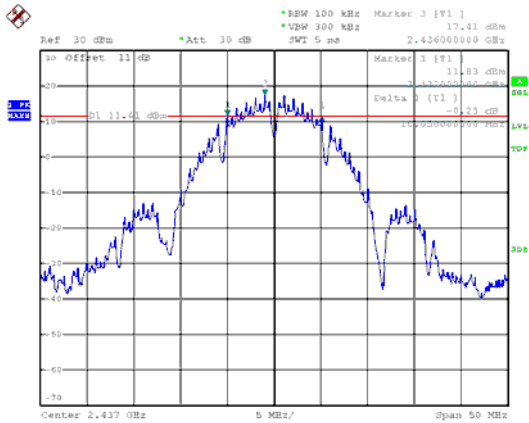
ANT B (Non-Beamforming)  
Modulation Type: 802.11b  
CH01



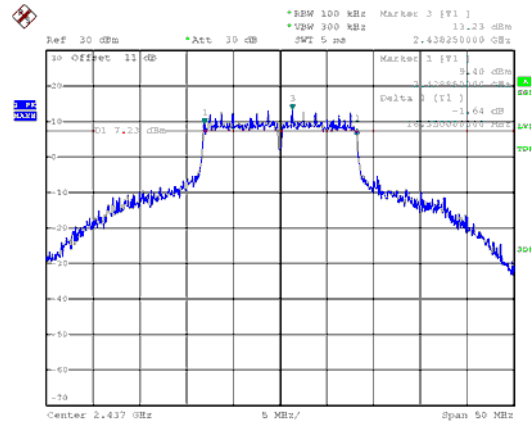
Modulation Type: 802.11g  
CH01



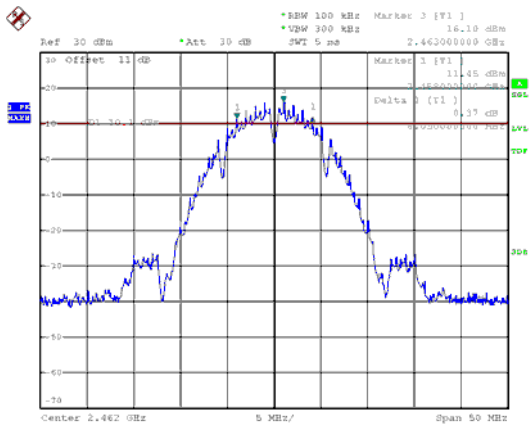
CH06



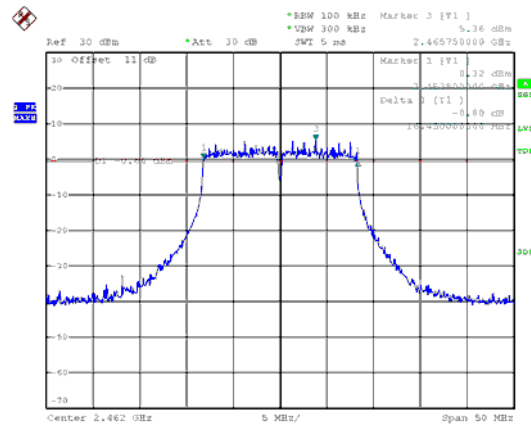
CH06



CH11



CH11

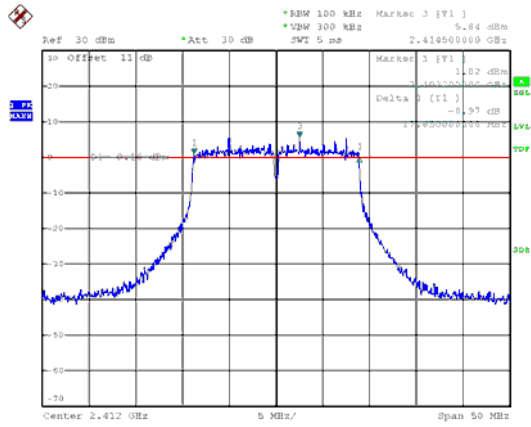




ANT B (Non-Beamforming)

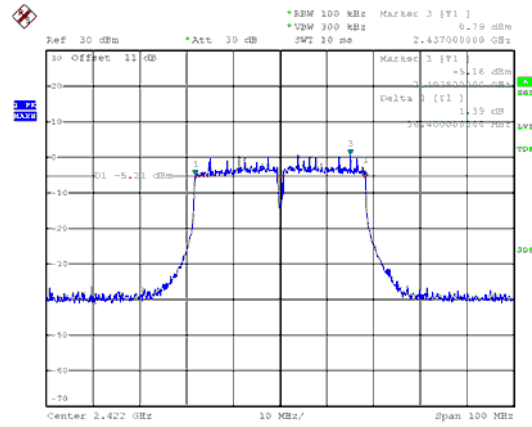
Modulation Type: VHT20

CH01

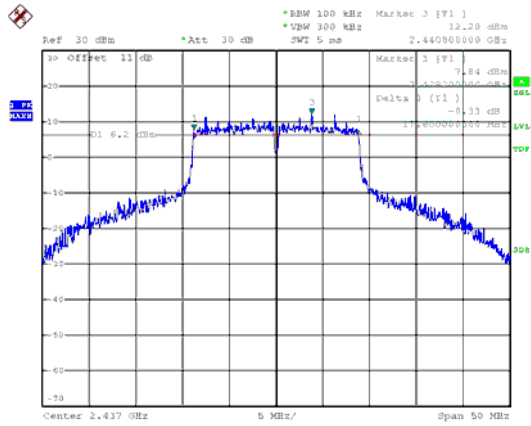


Modulation Type: VHT40

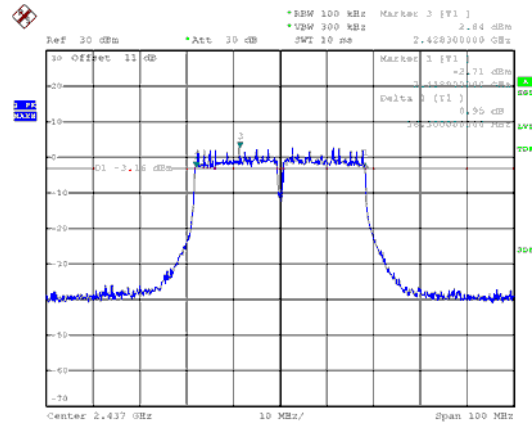
CH03



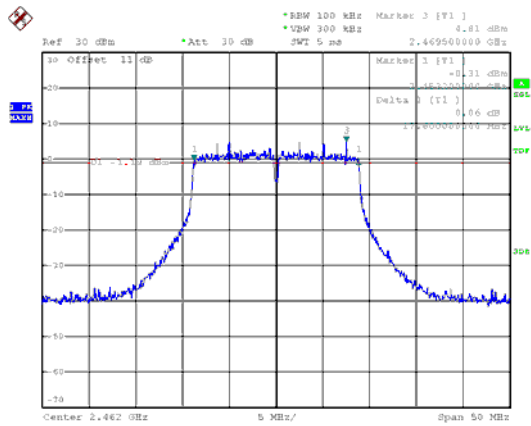
CH06



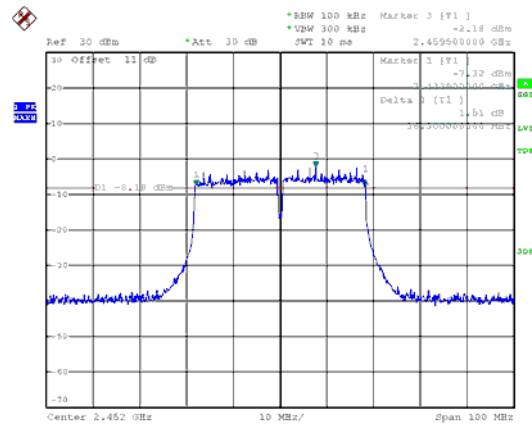
CH06



CH11



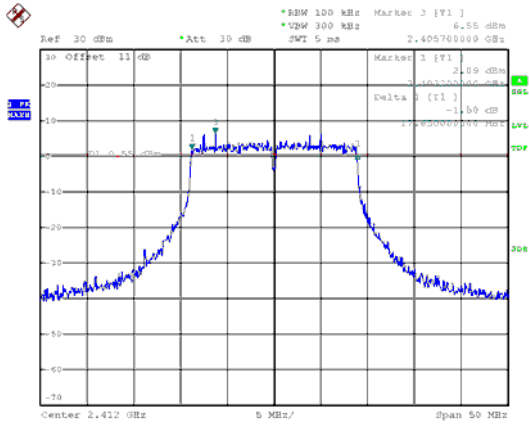
CH09



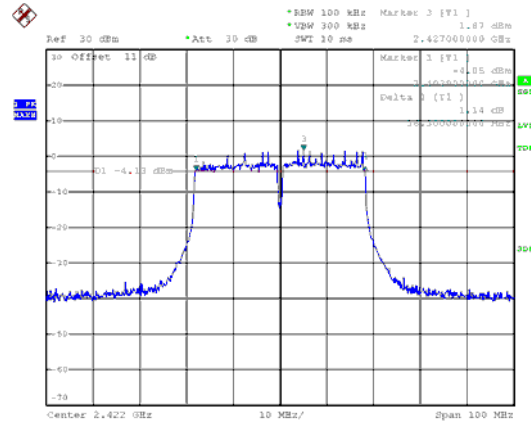


ANT A (Beamforming)

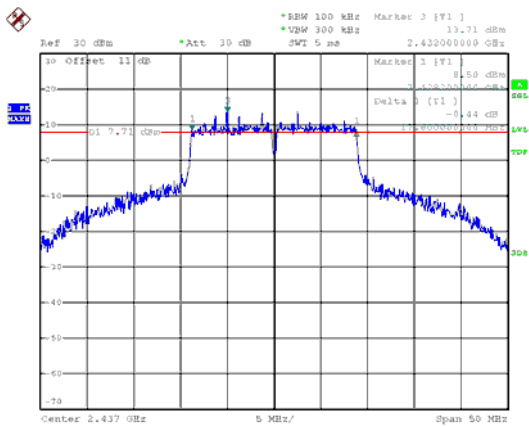
Modulation Type: VHT20  
CH01



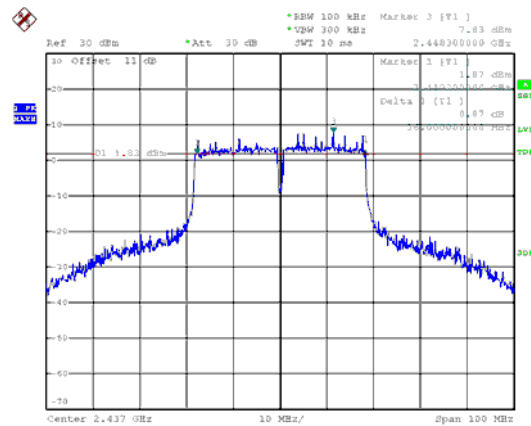
Modulation Type: VHT40  
CH03



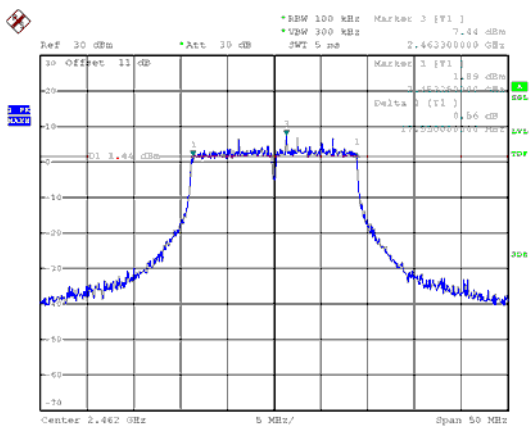
CH06



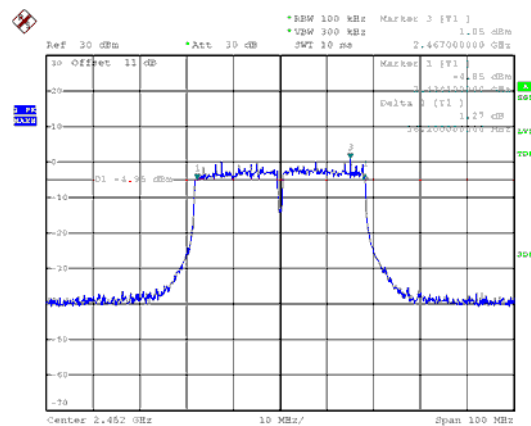
CH06



CH11



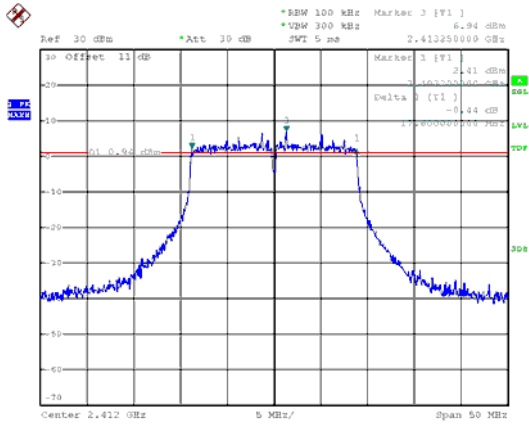
CH09



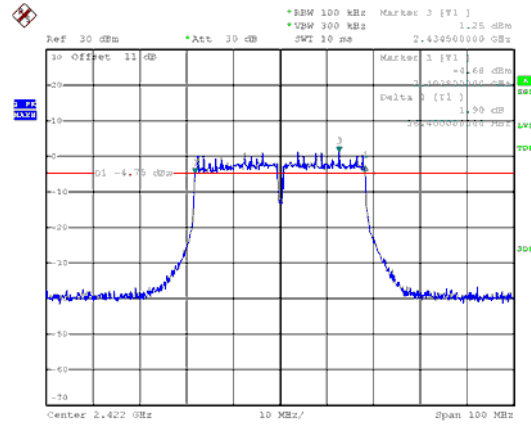


ANT B(Beamforming)

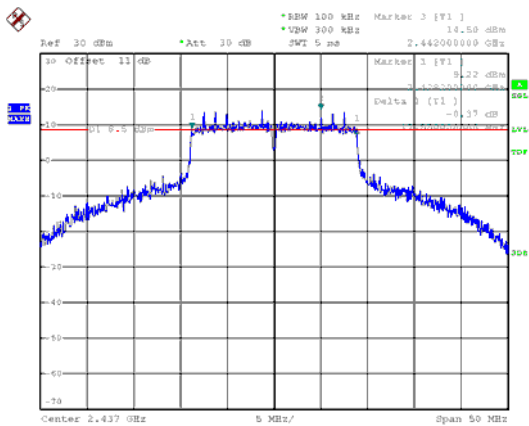
Modulation Type: VHT20  
CH01



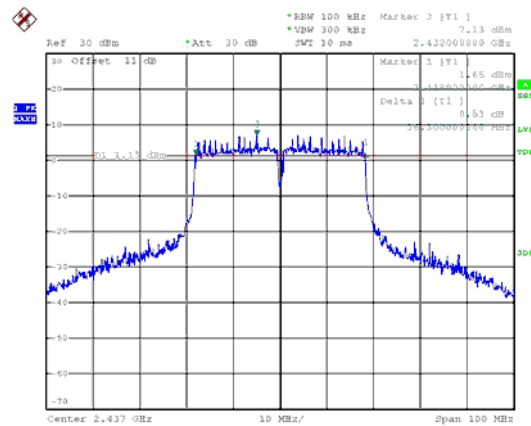
Modulation Type: VHT40  
CH03



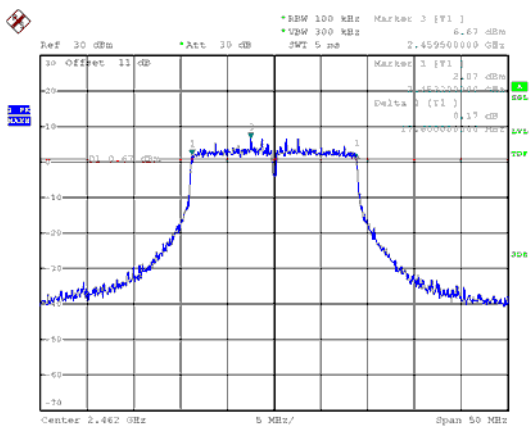
CH06



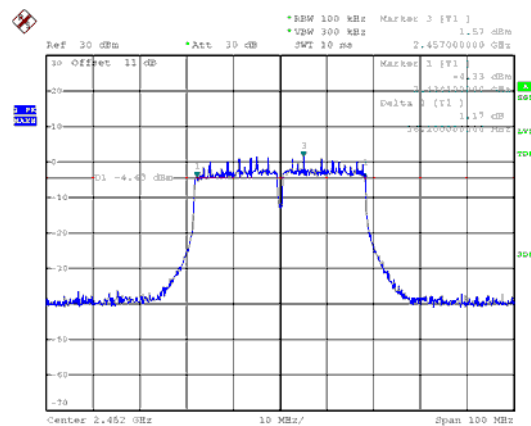
CH06



CH11



CH09







## 10. Maximum Peak and Average Output Power

### 10.1 Test Limit

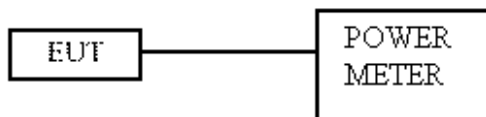
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 10.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 10.3 Test Setup Layout



### 10.4 Test Result and Data

(Non-Beamforming)

Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
			ANT A	ANT B			
11b	1	2412	25.38	25.32	28.36	685.552	30.00
	6	2437	26.01	25.99	<b>29.01</b>	796.216	30.00
	11	2462	23.92	23.90	26.92	492.075	30.00
11g	1	2412	18.29	18.50	21.41	138.247	30.00
	6	2437	24.28	24.24	27.27	533.377	30.00
	11	2462	17.30	17.40	20.36	108.657	30.00
11n HT20	1	2412	17.58	17.54	20.57	114.034	30.00
	6	2437	24.13	23.87	27.01	502.602	30.00
	11	2462	16.31	16.81	19.58	90.730	30.00
11n HT40	3	2422	15.99	16.12	19.07	80.645	30.00
	6	2437	18.03	18.20	21.13	129.602	30.00
	9	2452	13.58	13.65	16.63	45.977	30.00
11ac VHT20	1	2412	17.62	17.68	20.66	116.423	30.00
	6	2437	24.16	24.11	27.15	518.247	30.00
	11	2462	16.64	16.87	19.77	94.772	30.00
11ac VHT40	3	2422	15.98	16.18	19.09	81.123	30.00
	6	2437	18.06	18.27	21.18	131.116	30.00
	9	2452	13.64	13.72	16.69	46.671	30.00



**(Beamforming)**

Modulation Mode	Channel	Frequency (MHz)	Conducted(average) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Powe Limit (dBm)
			ANT A	ANT B			
11ac VHT20	1	2412	18.56	18.63	21.61	144.725	29.53
	6	2437	25.02	25.38	28.21	662.831	29.53
	11	2462	18.48	18.71	21.61	144.771	29.53
11ac VHT40	3	2422	16.08	16.31	19.21	83.307	29.53
	6	2437	21.15	21.45	24.31	269.954	29.53
	9	2452	15.66	15.77	18.73	74.570	29.53



## 11. Power Spectral Density

### 11.1 Test Limit

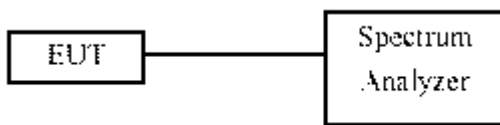
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 11.2 Test Procedures

Reference to ANSI 63.10-2013 section 10.1

### 11.3 Test Setup Layout



**11.4 Test Result and Data****(Non-Beamforming)**

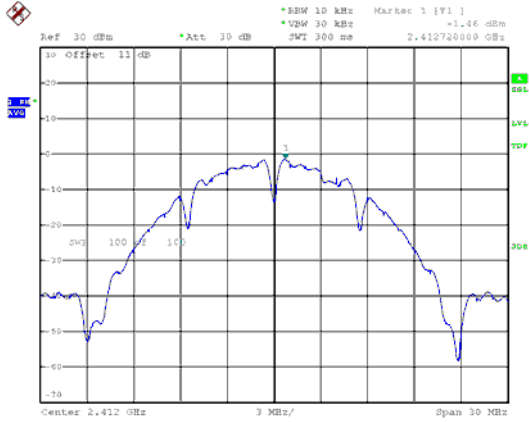
Modulation Type	CH	Freq. (MHz)	Maximum Power Density of 10 kHz Bandwidth (dBm)				Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B	ANT C	ANT D				
11b	01	2412	-1.46	-1.91	---	---	1.33	0.00	1.33	7.53
	06	2437	-1.54	-1.36	---	---	1.56	0.00	1.56	7.53
	11	2462	-2.26	-2.75	---	---	0.51	0.00	0.51	7.53
11g	01	2412	-11.57	-12.06	---	---	-8.80	0.18	-8.62	7.53
	06	2437	-5.34	-5.59	---	---	-2.45	0.18	-2.27	7.53
	11	2462	-12.54	-12.88	---	---	-9.70	0.18	-9.52	7.53
VHT20	01	2412	-12.34	-12.04	---	---	-9.18	0.00	-9.18	7.53
	06	2437	-5.93	-6.16	---	---	-3.03	0.00	-3.03	7.53
	11	2462	-13.58	-13.23	---	---	-10.39	0.00	-10.39	7.53
VHT40	03	2422	-18.23	-18.42	---	---	-15.31	0.14	-15.17	7.53
	06	2437	-15.81	-15.89	---	---	-12.84	0.14	-12.70	7.53
	09	2452	-20.66	-20.76	---	---	-17.70	0.14	-17.56	7.53

**(Beamforming)**

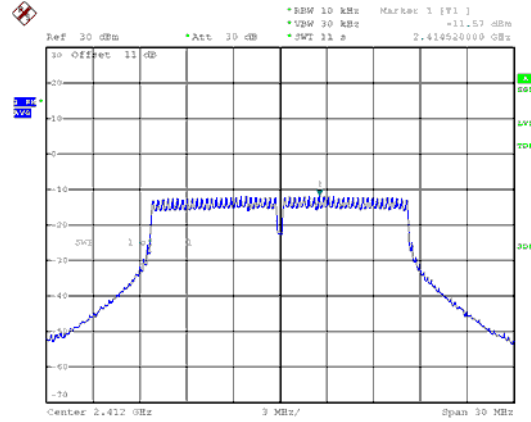
Modulation Type	CH	Freq. (MHz)	Maximum Power Density of 10 kHz Bandwidth (dBm)				Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B	ANT C	ANT D				
VHT20	01	2412	-11.7	-11.69	---	---	-8.68	0.34	-8.34	7.53
	06	2437	-5.41	-5.28	---	---	-2.33	0.34	-1.99	7.53
	11	2462	-11.63	-11.4	---	---	-8.50	0.34	-8.16	7.53
VHT40	03	2422	-17.31	-17.59	---	---	-14.44	0.37	-14.07	7.53
	06	2437	-11.81	-12.29	---	---	-9.03	0.37	-8.66	7.53
	09	2452	-17.88	-17.86	---	---	-14.86	0.37	-14.49	7.53



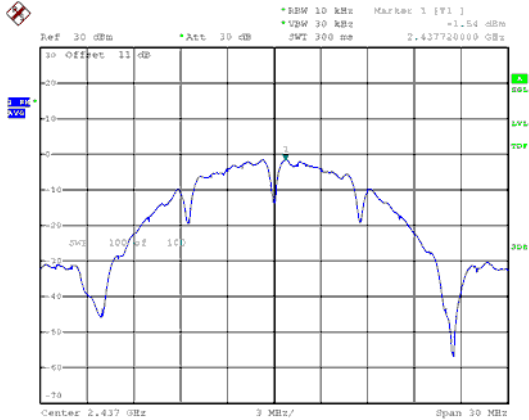
ANT A (Non-Beamforming)  
Modulation Type: 802.11b  
CH01



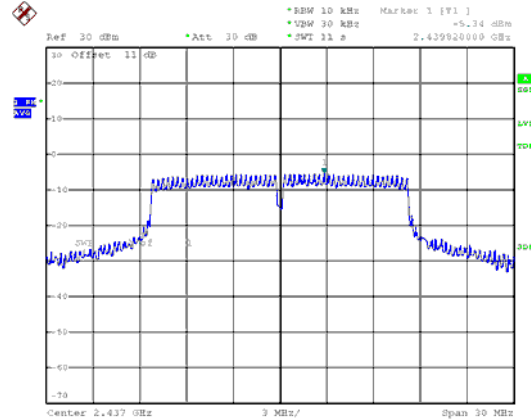
Modulation Type: 802.11g  
CH01



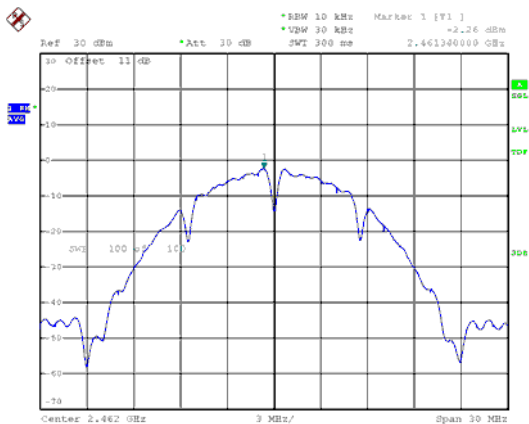
CH06



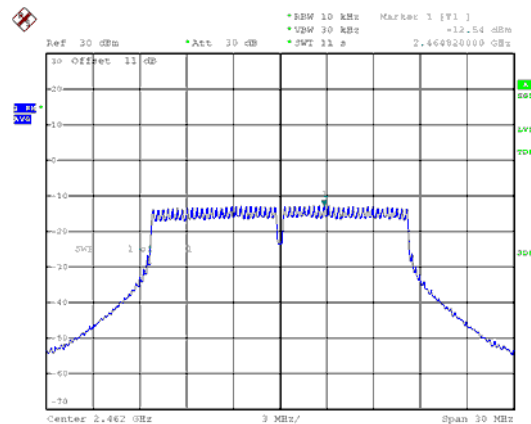
CH06



CH11

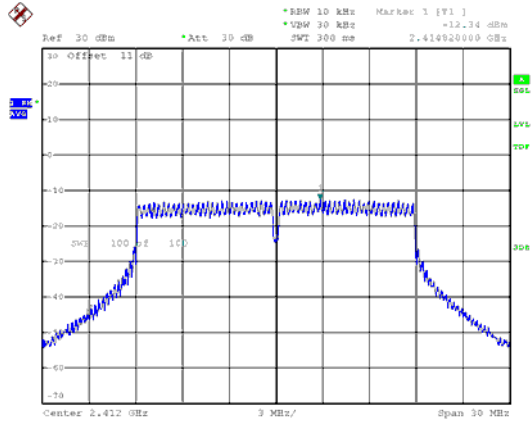


CH11

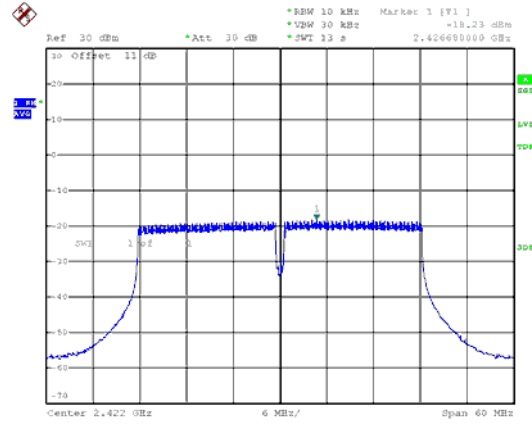




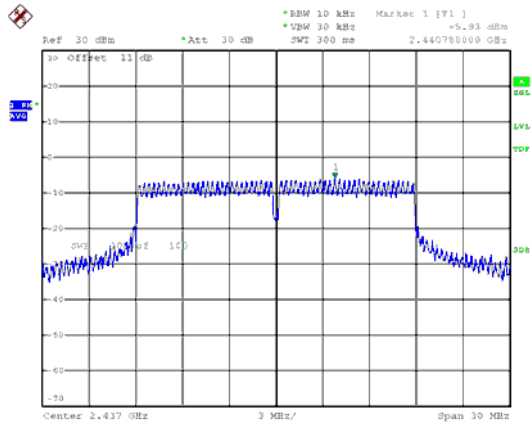
ANT A  
Modulation Type: VHT20  
CH01



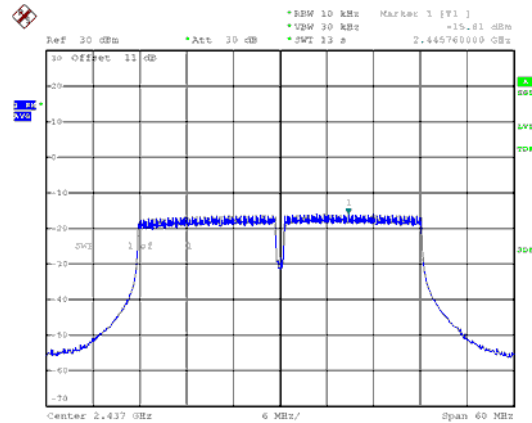
Modulation Type: VHT40  
CH03



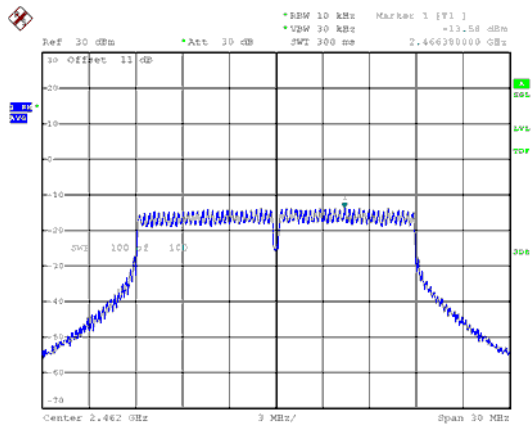
CH06



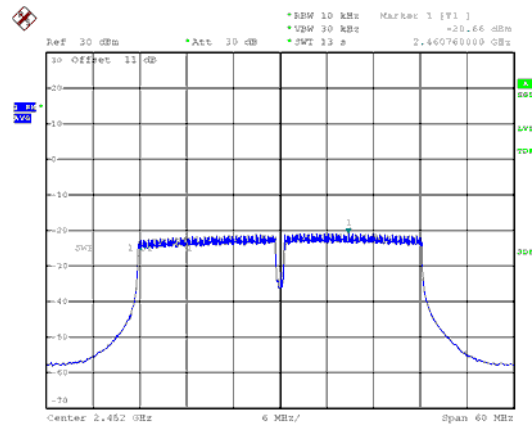
CH06



CH11

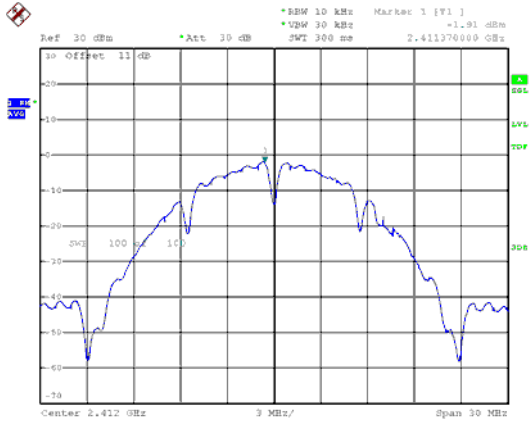


CH09

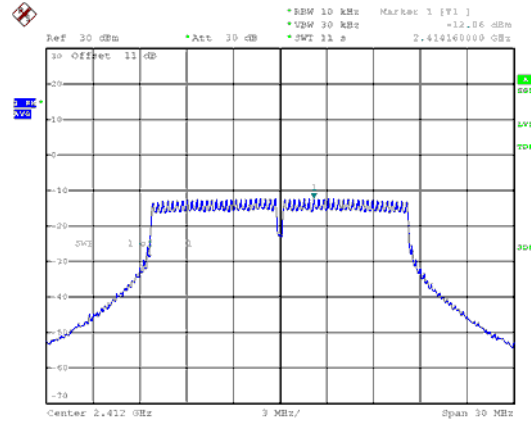




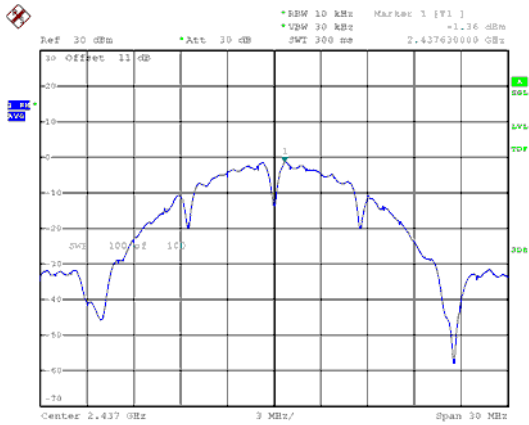
ANT B  
Modulation Type: 802.11b  
CH01



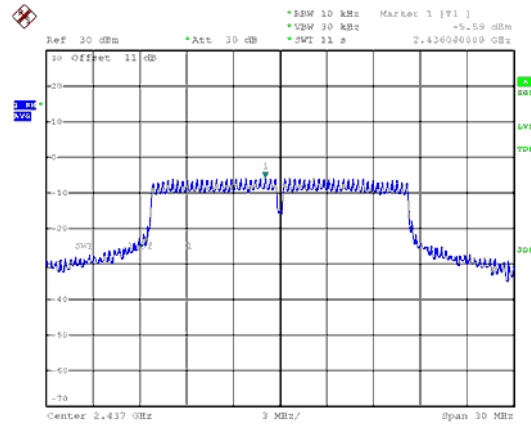
Modulation Type: 802.11g  
CH01



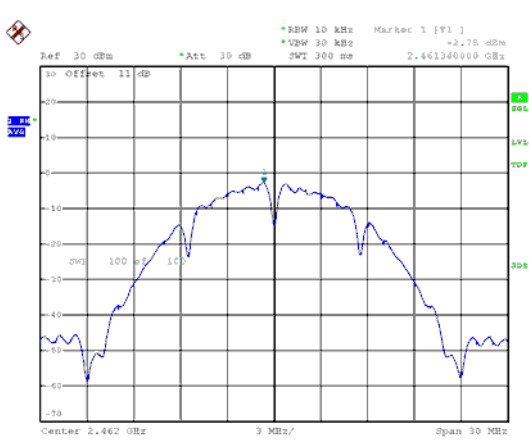
CH06



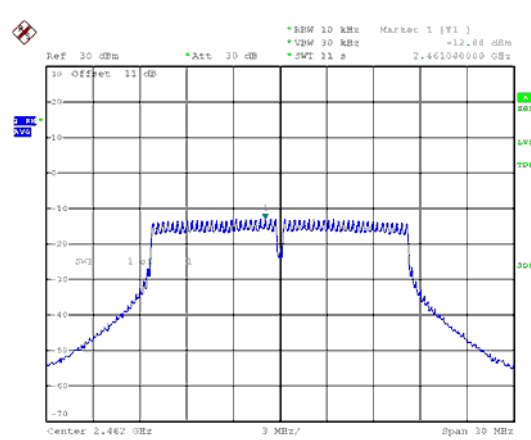
CH06



CH11

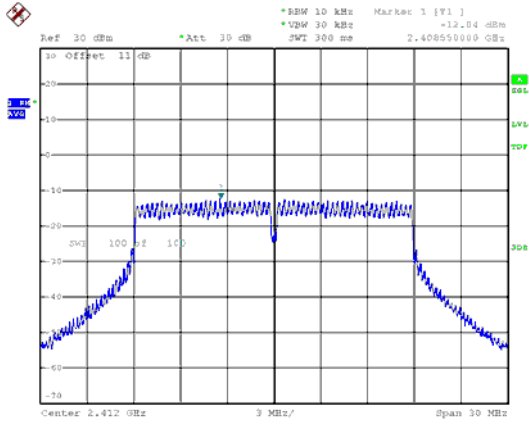


CH11

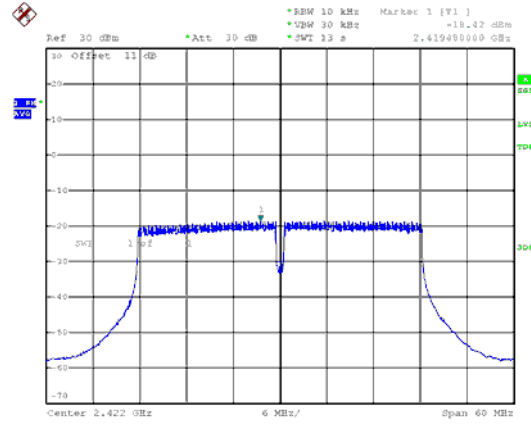




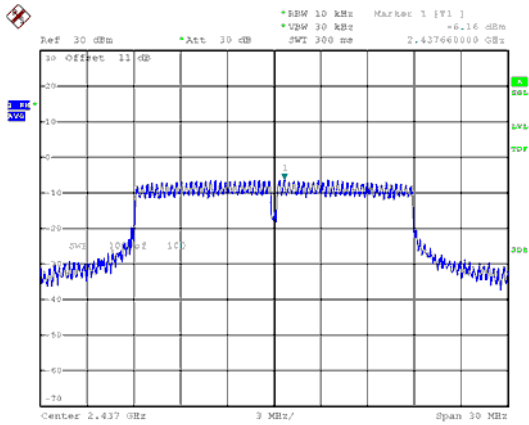
ANT B  
Modulation Type: VHT20  
CH01



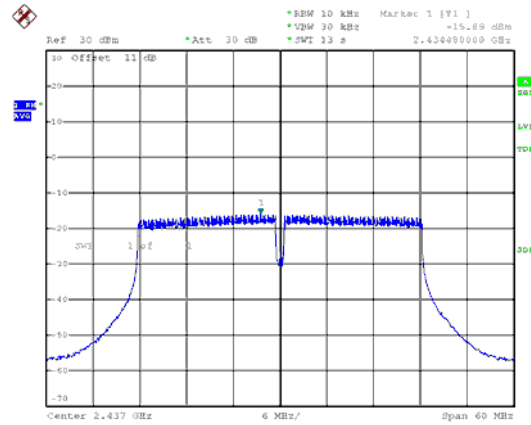
Modulation Type: VHT40  
CH03



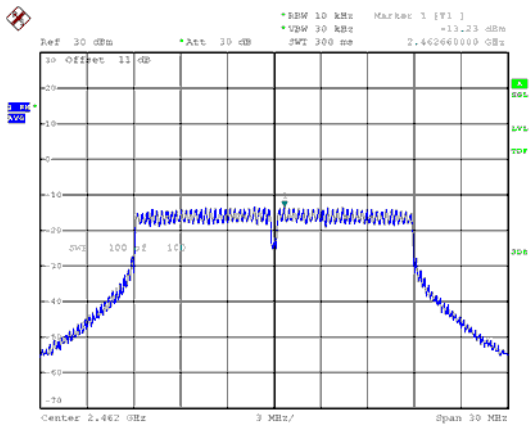
CH06



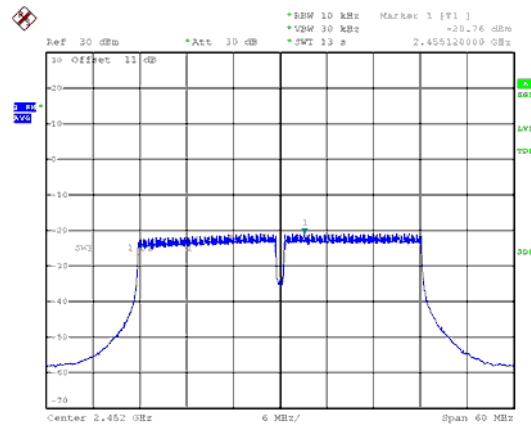
CH06



CH11



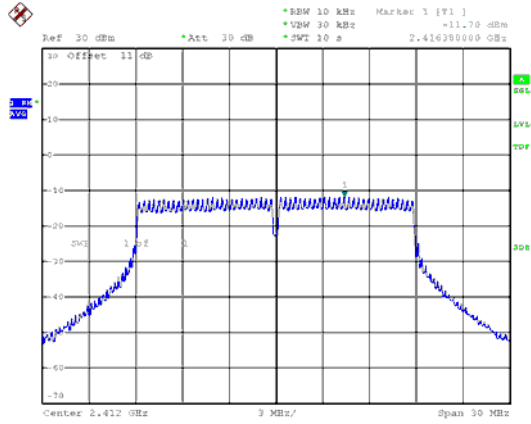
CH09



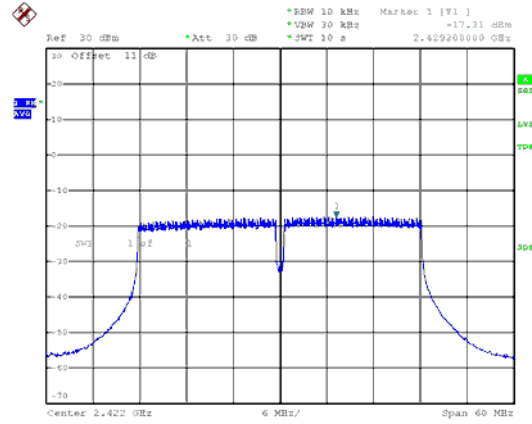




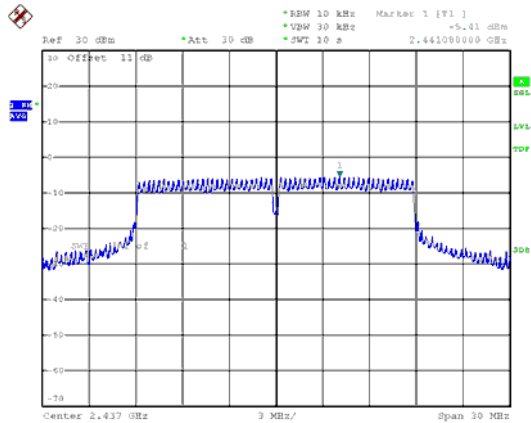
ANT A (Beamforming)  
Modulation Type: VHT20  
CH01



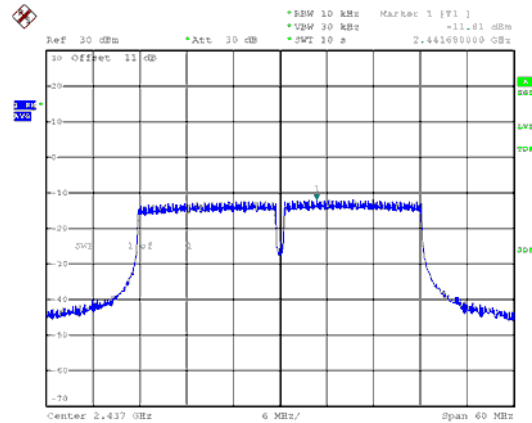
Modulation Type: VHT40  
CH03



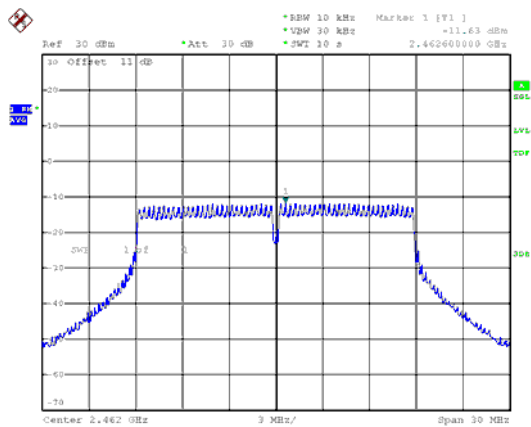
CH06



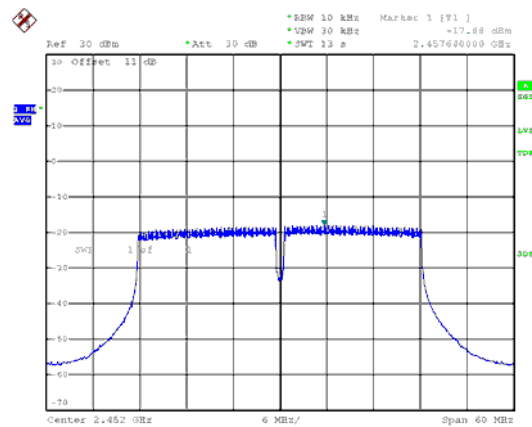
CH06



CH11

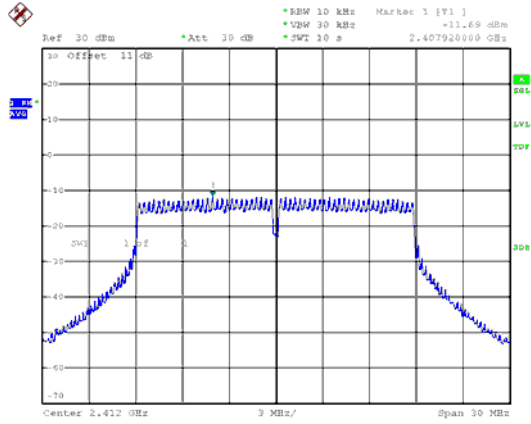


CH09

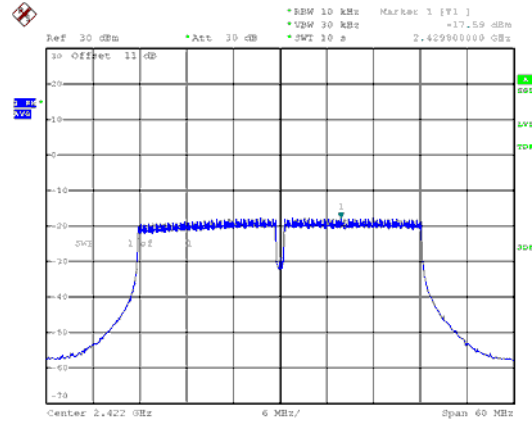




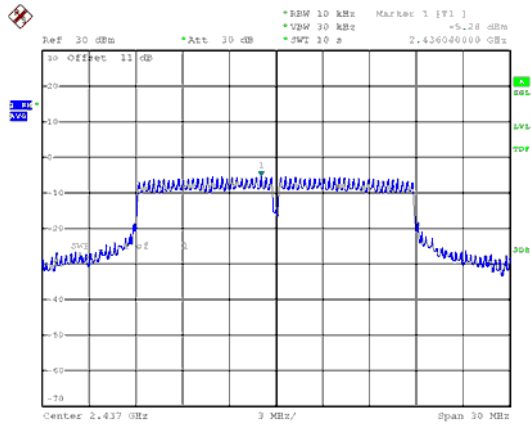
ANT B  
Modulation Type: VHT20  
CH01



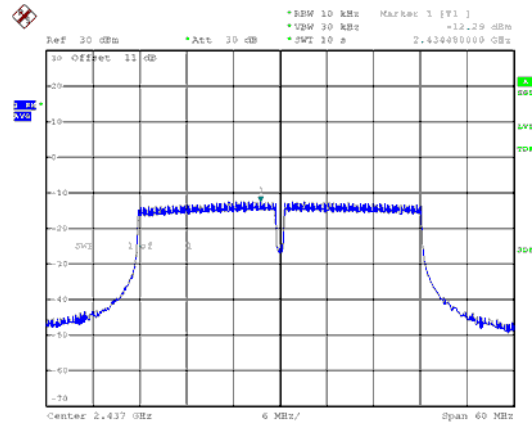
Modulation Type: VHT40  
CH03



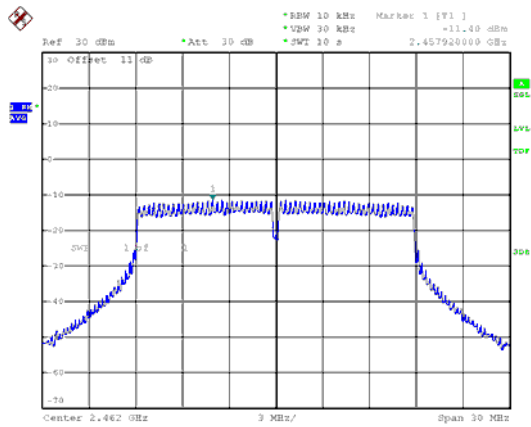
CH06



CH06



CH11



CH09

