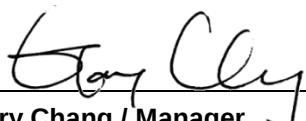


FCC Test Report

FCC ID : 2ADYF-A20
Equipment : 802.11AC Wireless Internet Router
Model No. : A20
Brand Name : Art2Wave
Applicant : Art2Wave Inc
Address : 1901 South Bascom Ave, Suite 1300,
Campbell, CA 95008, USA
Standard : 47 CFR FCC Part 15.247
Received Date : Mar. 19, 2015
Tested Date : Apr. 14 ~ Apr. 27, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR531903AC	Rev. 01	Initial issue	May 25, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.434MHz 41.61 (Margin -5.57dB) – AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 4924.00MHz 53.00 (Margin -1.00dB) – AV [dBuV/m at 3m]: 2483.50MHz 53.00 (Margin -1.00dB) – AV [dBuV/m at 3m]: 5000.00MHz 53.00 (Margin -1.00dB) – AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: Non-beamforming mode 28.61 Beamforming mode 28.43	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation. Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation. Note 4: 802.11n supports beamforming mode.					

1.1.2 Antenna Details

Ant. No.	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)		
			2400~2483.5	5150~5250	5725~5850
1	PIFA	UFL	3.5	5.4	6.2

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter 56Vdc from POE (POE is for support unit only)
--------------------------	---

1.1.4 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand Name: DVE Model Name: DSA-20CA-12 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.8A O/P: 12Vdc, 1.5A Power Line: 1.5m non-shielded cable w/o core
2	RJ45 cable	1.5m non-shielded cable without core

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	Hyperterminal, Version: 5.1				
Duty Cycle and Duty Factor	Mode	Non-Beamforming		Beamforming	
		Duty cycle (%)	Duty factor (dB)	Duty cycle (%)	Duty factor (dB)
	11b	100.00%	0.00	---	---
	11g	99.29%	0.03	---	---
	HT20	99.23%	0.03	98.92%	0.05
	HT40	98.19%	0.08	98.89%	0.05

1.1.7 Power Setting

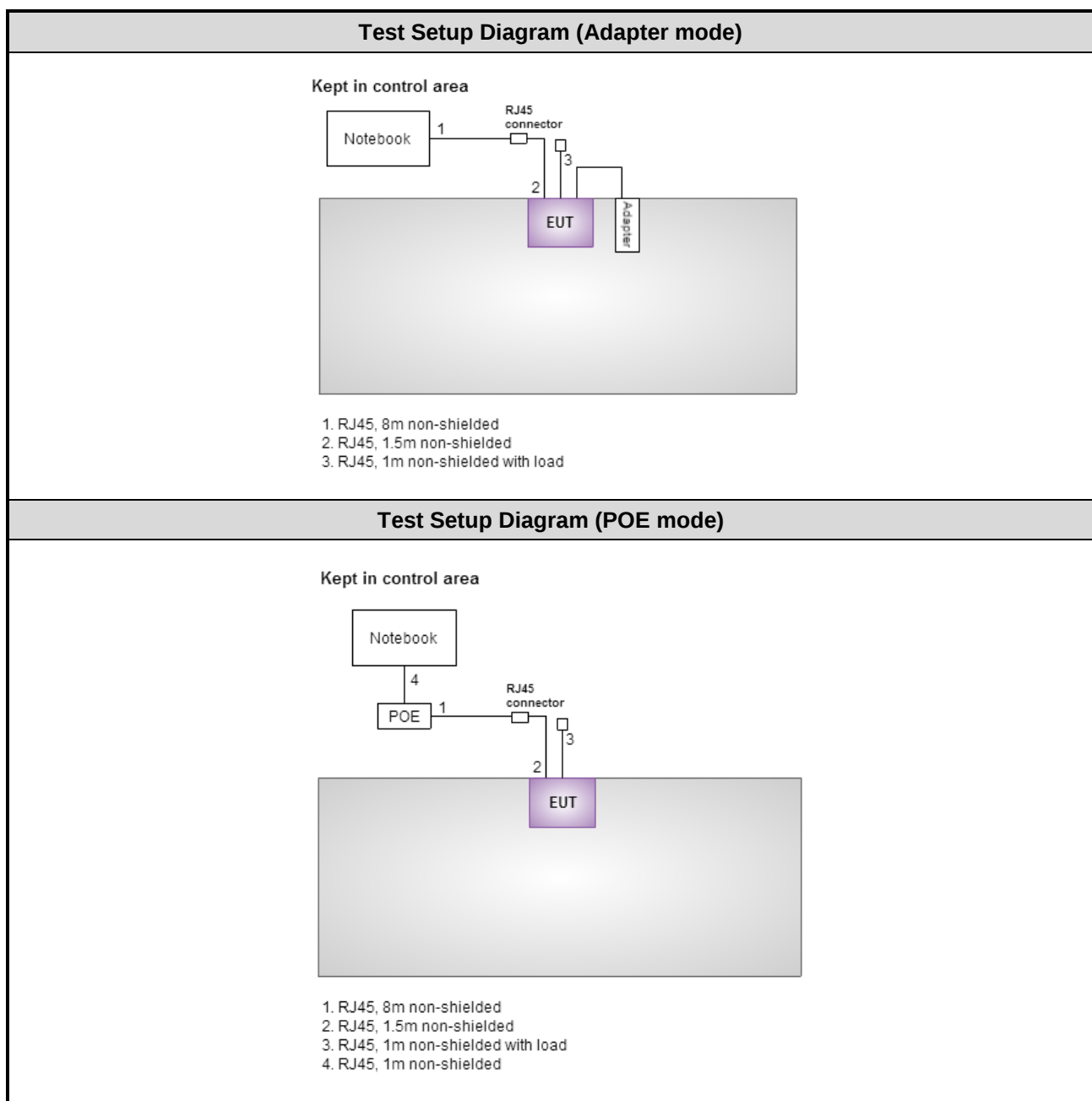
Modulation Mode	Test Frequency (MHz)	Power Set	
		Non-Beamforming	Beamforming
11b	2412	86	---
11b	2437	84	---
11b	2462	80	---
11g	2412	80	---
11g	2437	92	---
11g	2462	70	---
HT20	2412	70	70
HT20	2437	90	90
HT20	2462	60	60
HT40	2422	66	66
HT40	2437	64	64
HT40	2452	56	56

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E5420	DoC	RJ45, 8m non-shielded.
2	POE	CISCO	AIR-PWRINJ1500-2	---	RJ45, 8m non-shielded.

Note: POE is provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 17, 2014	Oct. 16, 2015
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 17, 2014	Nov. 16, 2015
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 31, 2014	Dec. 30, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 16, 2014	Sep. 15, 2015
Receiver	Agilent	N9038A	MY53290044	Oct. 21, 2014	Oct. 20, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-562	Jan. 19, 2015	Jan. 18, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 03, 2015	Feb. 02, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 10, 2014	Nov. 09, 2015
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 10, 2014	Nov. 09, 2015
Preamplifier	EMC	EMC02325	980187	Sep. 26, 2014	Sep. 25, 2015
Preamplifier	Agilent	83017A	MY53270014	Sep. 17, 2014	Sep. 16, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22601/4	Feb. 09, 2015	Feb. 08, 2016
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 09, 2015	Feb. 08, 2016
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 09, 2015	Feb. 08, 2016
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 09, 2015	Feb. 08, 2016
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 09, 2015	Feb. 08, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 03, 2015	Feb. 02, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 29, 2014	Sep. 28, 2015
Power Sensor	Anritsu	MA2411B	1207366	Sep. 29, 2014	Sep. 28, 2015
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 02, 2014.

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Power density	± 0.463 dB
Conducted emission	± 2.670 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.99 dB
Radiated emission > 1 GHz	± 5.52 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 66%	Kevin Ma
Radiated Emissions	03CH03-WS	24°C / 61%	Aska Huang Anderson Hung
RF Conducted	TH01-WS	22°C / 61%	Felix Sung

➤ FCC site registration No.: 390588

➤ IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT20	2437	MCS 0	1, 2, 3, 4
Radiated Emissions ≤1GHz	HT20	2437	MCS 0	1, 2, 3, 4
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	1
Maximum Output Power	11g	2412 / 2437 / 2462	6 Mbps	
6dB bandwidth	HT20	2412 / 2437 / 2462	MCS 0	
Power spectral density	HT40	2422 / 2437 / 2452	MCS 0	
Radiated Emissions >1GHz	HT20 HT40	2412 / 2437 / 2462 2422 / 2437 / 2452	MCS 0	3
Maximum Output Power			MCS 0	
6dB bandwidth			MCS 0	
Power spectral density			MCS 0	

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.
- Test configurations are listed as below:
 - 1) Configuration 1: Non-beamforming mode, Adapter mode
 - 2) Configuration 2: Non-beamforming mode, PoE mode
 - 3) Configuration 3: Beamforming mode, Adapter mode
 - 4) Configuration 2: Beamforming mode, PoE mode

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup

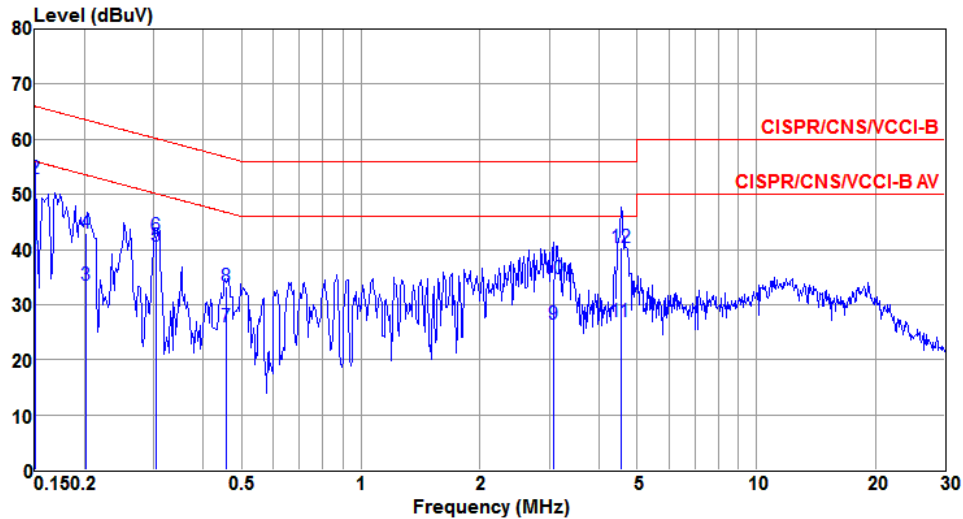


- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Non-beamforming mode

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	1

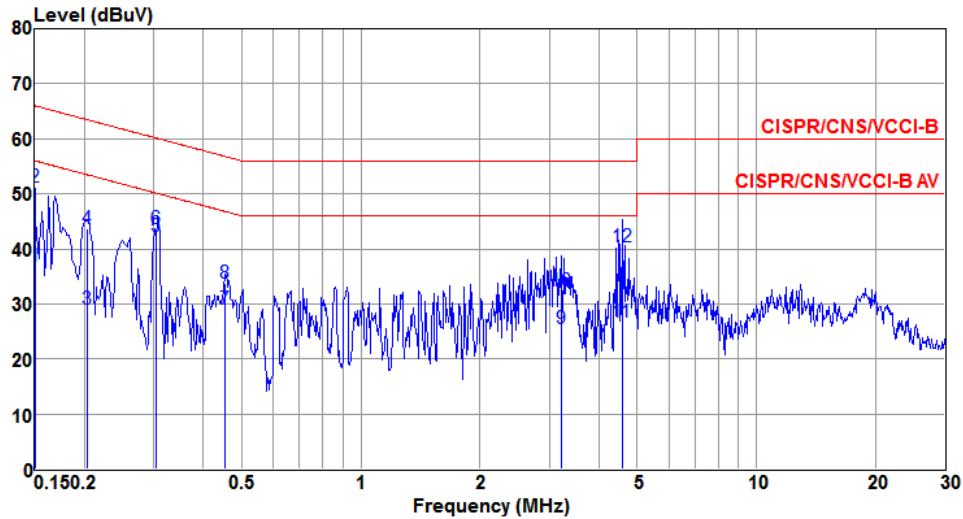


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	40.08	56.00	-15.92	39.08	0.92	0.08	Average
2	0.150	52.91	66.00	-13.09	51.91	0.92	0.08	QP
3	0.201	33.56	53.55	-19.99	33.22	0.25	0.09	Average
4	0.201	42.95	63.55	-20.60	42.61	0.25	0.09	QP
5*	0.303	40.65	50.15	-9.50	40.34	0.21	0.10	Average
6	0.303	42.40	60.15	-17.75	42.09	0.21	0.10	QP
7	0.457	25.87	46.74	-20.87	25.58	0.17	0.12	Average
8	0.457	33.36	56.74	-23.38	33.07	0.17	0.12	QP
9	3.074	26.43	46.00	-19.57	25.75	0.40	0.28	Average
10	3.074	34.76	56.00	-21.24	34.08	0.40	0.28	QP
11	4.549	26.99	46.00	-19.01	26.37	0.31	0.31	Average
12	4.549	40.42	56.00	-15.58	39.80	0.31	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

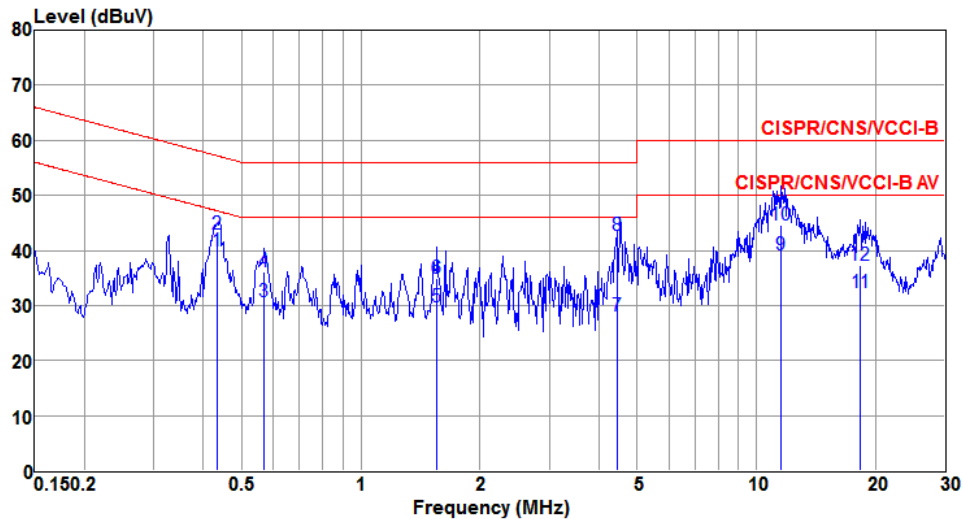
Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	1



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	36.73	56.00	-19.27	35.80	0.85	0.08	Average
2	0.150	51.22	66.00	-14.78	50.29	0.85	0.08	QP
3	0.204	29.03	53.46	-24.43	28.70	0.24	0.09	Average
4	0.204	43.70	63.46	-19.76	43.37	0.24	0.09	QP
5*	0.304	42.26	50.14	-7.88	41.99	0.17	0.10	Average
6	0.304	43.61	60.14	-16.53	43.34	0.17	0.10	QP
7	0.454	29.02	46.80	-17.78	28.75	0.15	0.12	Average
8	0.454	33.65	56.80	-23.15	33.38	0.15	0.12	QP
9	3.207	25.45	46.00	-20.55	24.59	0.57	0.29	Average
10	3.207	32.41	56.00	-23.59	31.55	0.57	0.29	QP
11	4.574	26.77	46.00	-19.23	25.75	0.71	0.31	Average
12	4.574	40.39	56.00	-15.61	39.37	0.71	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

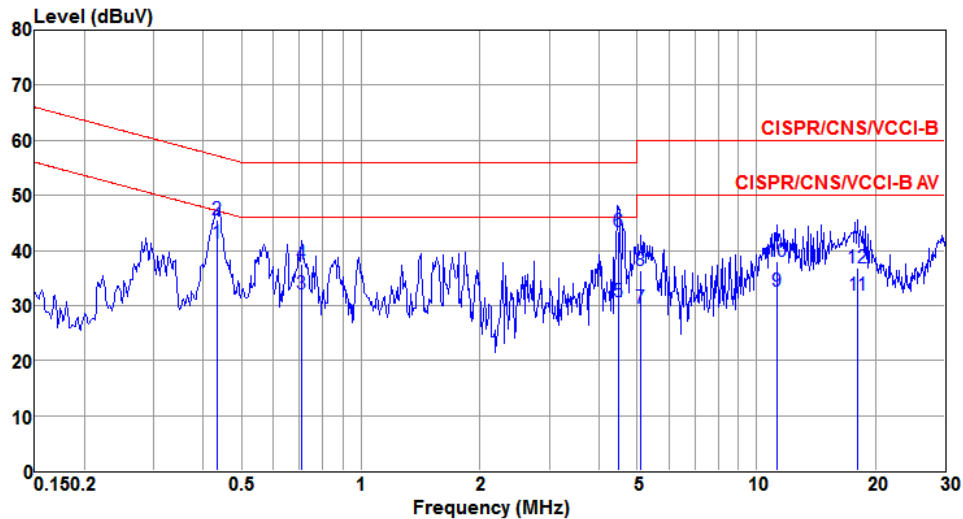
Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	2



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1*	0.433	39.94	47.19	-7.25	39.76	0.07	0.11	Average
2	0.433	42.88	57.19	-14.31	42.70	0.07	0.11	QP
3	0.570	30.76	46.00	-15.24	30.56	0.07	0.13	Average
4	0.570	36.08	56.00	-19.92	35.88	0.07	0.13	QP
5	1.560	29.75	46.00	-16.25	29.45	0.09	0.21	Average
6	1.560	34.99	56.00	-21.01	34.69	0.09	0.21	QP
7	4.460	28.14	46.00	-17.86	27.70	0.13	0.31	Average
8	4.460	42.77	56.00	-13.23	42.33	0.13	0.31	QP
9	11.498	39.24	50.00	-10.76	38.74	0.23	0.27	Average
10	11.498	44.63	60.00	-15.37	44.13	0.23	0.27	QP
11	18.328	32.28	50.00	-17.72	31.89	0.31	0.08	Average
12	18.328	37.32	60.00	-22.68	36.93	0.31	0.08	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	2

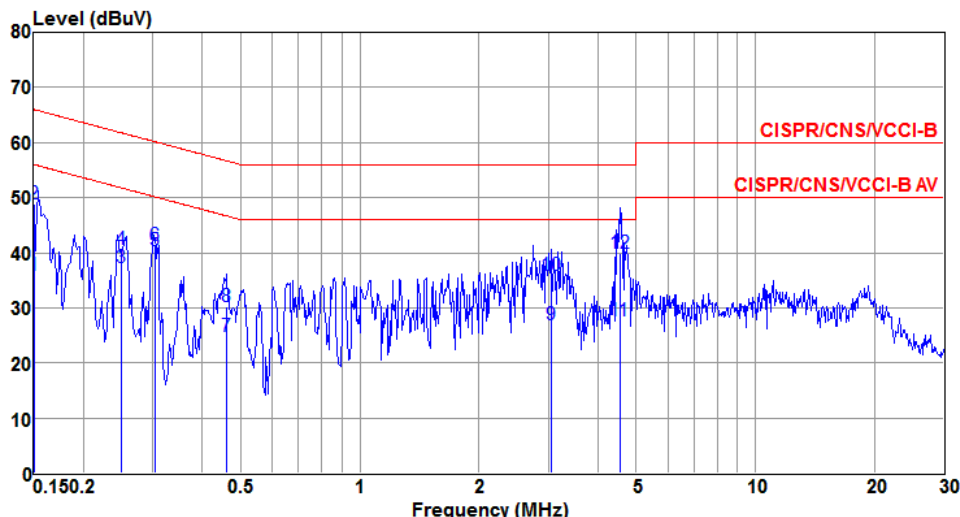


	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.433	41.32	47.19	-5.87	41.14	0.07	0.11	Average
2	0.433	45.58	57.19	-11.61	45.40	0.07	0.11	QP
3	0.708	32.11	46.00	-13.89	31.89	0.08	0.14	Average
4	0.708	37.42	56.00	-18.58	37.20	0.08	0.14	QP
5	4.495	30.74	46.00	-15.26	30.29	0.14	0.31	Average
6	4.495	43.38	56.00	-12.62	42.93	0.14	0.31	QP
7	5.112	29.44	50.00	-20.56	28.97	0.16	0.31	Average
8	5.112	36.31	60.00	-23.69	35.84	0.16	0.31	QP
9	11.317	32.46	50.00	-17.54	31.94	0.25	0.27	Average
10	11.317	37.92	60.00	-22.08	37.40	0.25	0.27	QP
11	18.039	31.95	50.00	-18.05	31.54	0.32	0.09	Average
12	18.039	36.87	60.00	-23.13	36.46	0.32	0.09	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Beamforming mode

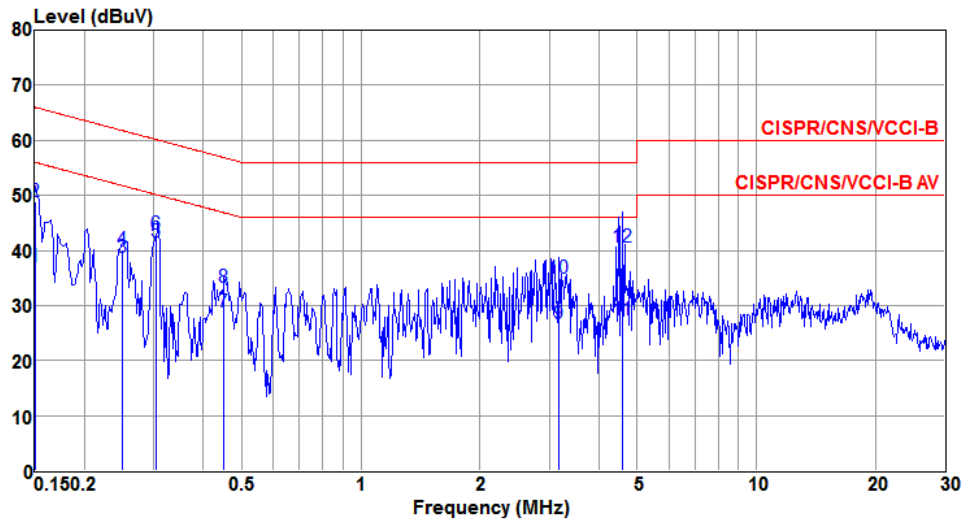
Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	3



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	35.81	56.00	-20.19	34.81	0.92	0.08	Average
2	0.150	48.76	66.00	-17.24	47.76	0.92	0.08	QP
3	0.250	37.32	51.76	-14.44	36.99	0.23	0.10	Average
4	0.250	40.70	61.76	-21.06	40.37	0.23	0.10	QP
5*	0.304	40.25	50.13	-9.88	39.94	0.21	0.10	Average
6	0.304	41.33	60.13	-18.80	41.02	0.21	0.10	QP
7	0.461	24.78	46.67	-21.89	24.49	0.17	0.12	Average
8	0.461	30.17	56.67	-26.50	29.88	0.17	0.12	QP
9	3.041	26.85	46.00	-19.15	26.16	0.41	0.28	Average
10	3.041	35.84	56.00	-20.16	35.15	0.41	0.28	QP
11	4.549	27.62	46.00	-18.38	27.00	0.31	0.31	Average
12	4.549	39.96	56.00	-16.04	39.34	0.31	0.31	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

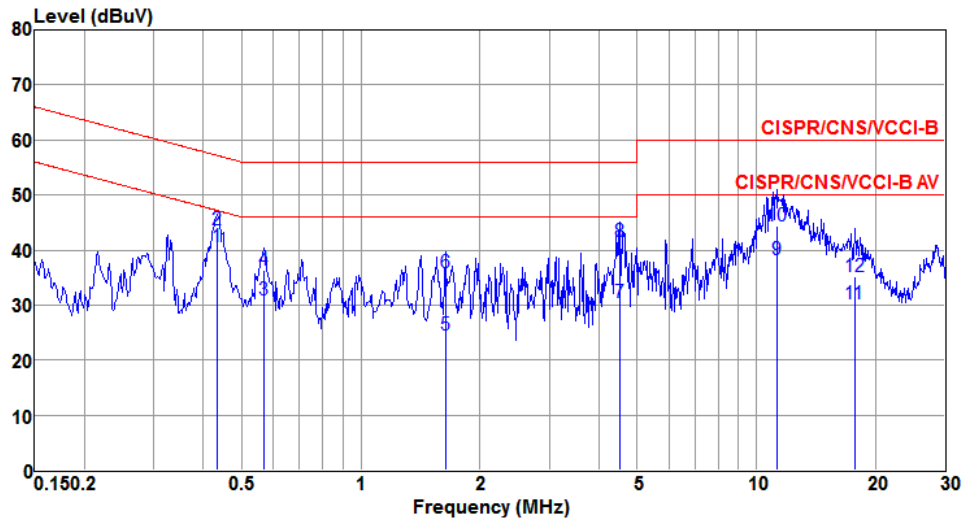
Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	3



	Freq MHz	Level dBUV	Limit Line dBUV	Over Limit dB	Read Level dBUV	LISN factor dB	cable loss dB	Remark
1	0.150	37.01	56.00	-18.99	36.08	0.85	0.08	Average
2	0.150	48.97	66.00	-17.03	48.04	0.85	0.08	QP
3	0.250	38.74	51.76	-13.02	38.44	0.20	0.10	Average
4	0.250	40.07	61.76	-21.69	39.77	0.20	0.10	QP
5*	0.304	41.46	50.13	-8.67	41.19	0.17	0.10	Average
6	0.304	43.04	60.13	-17.09	42.77	0.17	0.10	QP
7	0.452	28.72	46.85	-18.13	28.45	0.15	0.12	Average
8	0.452	33.38	56.85	-23.47	33.11	0.15	0.12	QP
9	3.173	26.65	46.00	-19.35	25.80	0.56	0.29	Average
10	3.173	34.85	56.00	-21.15	34.00	0.56	0.29	QP
11	4.598	27.42	46.00	-18.58	26.40	0.71	0.31	Average
12	4.598	40.63	56.00	-15.37	39.61	0.71	0.31	QP

Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).

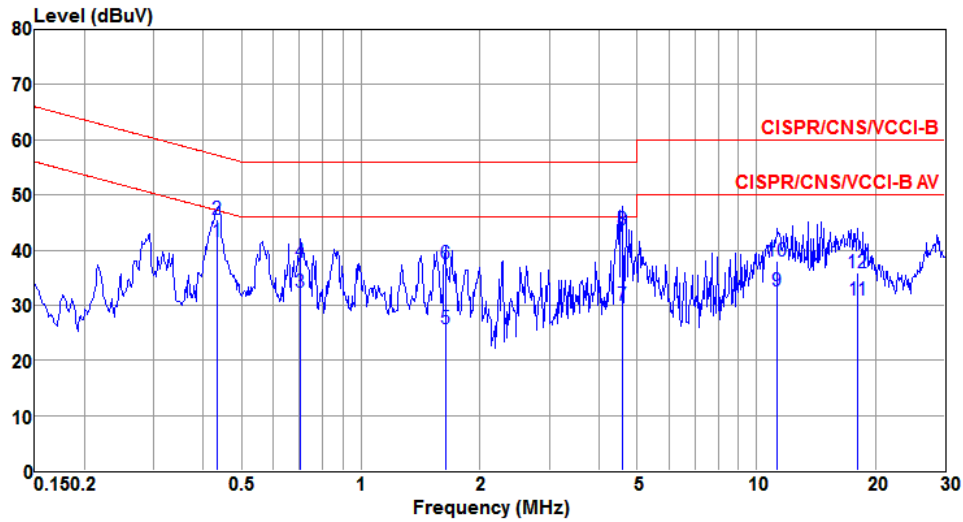
Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	4



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.433	40.59	47.20	-6.61	40.41	0.07	0.11	Average
2	0.433	43.59	57.20	-13.61	43.41	0.07	0.11	QP
3	0.570	30.99	46.00	-15.01	30.79	0.07	0.13	Average
4	0.570	36.37	56.00	-19.63	36.17	0.07	0.13	QP
5	1.636	24.50	46.00	-21.50	24.19	0.09	0.22	Average
6	1.636	35.77	56.00	-20.23	35.46	0.09	0.22	QP
7	4.525	30.40	46.00	-15.60	29.96	0.13	0.31	Average
8	4.525	41.58	56.00	-14.42	41.14	0.13	0.31	QP
9	11.257	38.13	50.00	-11.87	37.63	0.23	0.27	Average
10	11.257	44.39	60.00	-15.61	43.89	0.23	0.27	QP
11	17.755	30.28	50.00	-19.72	29.88	0.30	0.10	Average
12	17.755	35.27	60.00	-24.73	34.87	0.30	0.10	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	HT20	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	4



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.434	41.61	47.18	-5.57	41.43	0.07	0.11	Average
2	0.434	45.45	57.18	-11.73	45.27	0.07	0.11	QP
3	0.705	32.30	46.00	-13.70	32.08	0.08	0.14	Average
4	0.705	37.80	56.00	-18.20	37.58	0.08	0.14	QP
5	1.636	25.68	46.00	-20.32	25.37	0.09	0.22	Average
6	1.636	37.64	56.00	-18.36	37.33	0.09	0.22	QP
7	4.598	29.88	46.00	-16.12	29.42	0.15	0.31	Average
8	4.598	43.56	56.00	-12.44	43.10	0.15	0.31	QP
9	11.317	32.57	50.00	-17.43	32.05	0.25	0.27	Average
10	11.317	38.04	60.00	-21.96	37.52	0.25	0.27	QP
11	18.039	30.82	50.00	-19.18	30.41	0.32	0.09	Average
12	18.039	35.84	60.00	-24.16	35.43	0.32	0.09	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

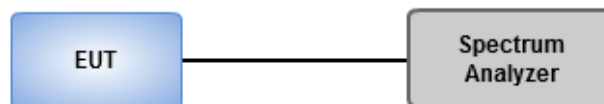
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1 MHz, Video bandwidth = 3 MHz.
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

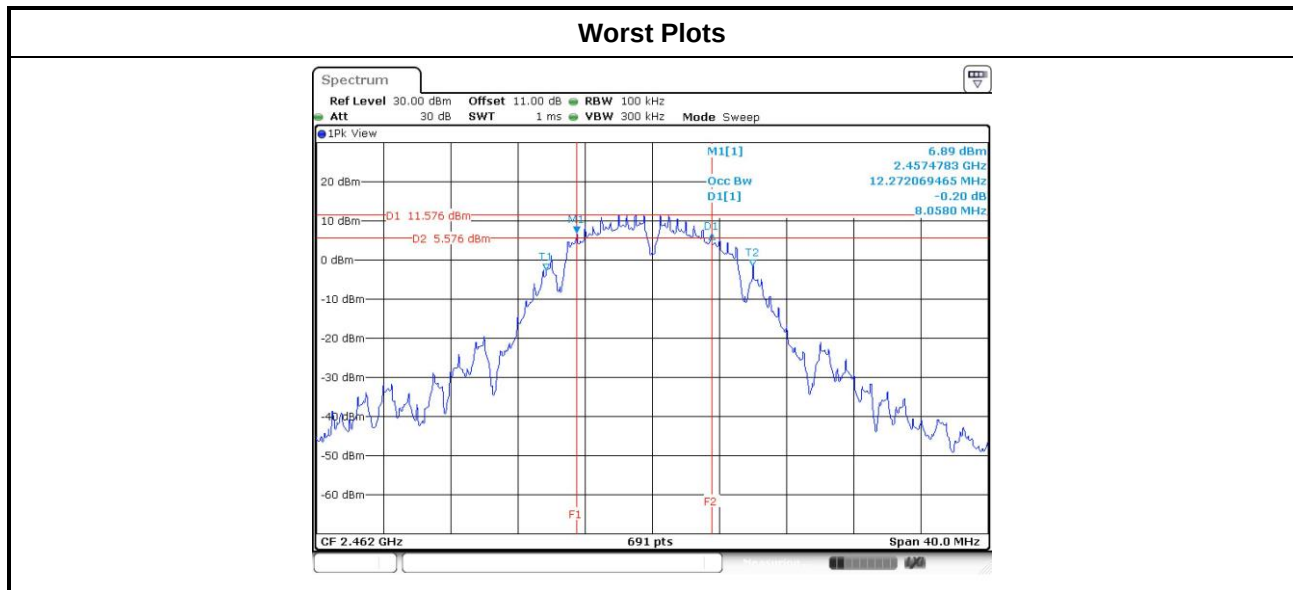
3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

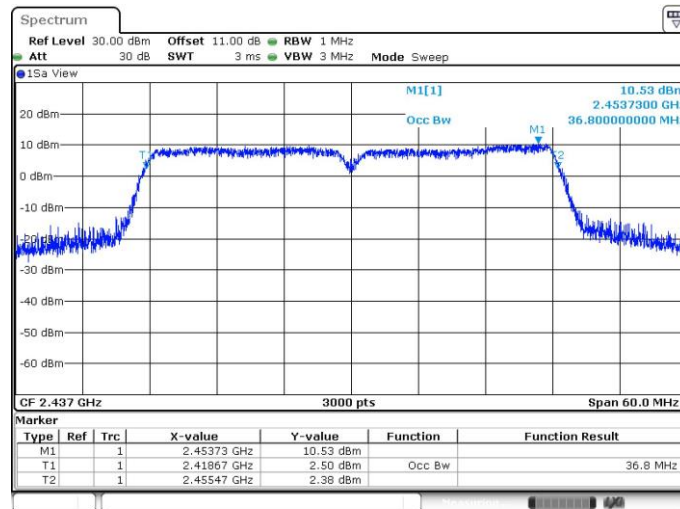
Non-beamforming mode - Test Configuration 1

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	9.10	---	---	---	500
11b	1	2437	9.04	---	---	---	500
11b	1	2462	8.06	---	---	---	500
11g	1	2412	16.35	---	---	---	500
11g	1	2437	16.41	---	---	---	500
11g	1	2462	15.71	---	---	---	500
HT20	2	2412	17.62	17.62	---	---	500
HT20	2	2437	17.62	17.57	---	---	500
HT20	2	2462	16.35	17.57	---	---	500
HT40	2	2422	35.48	35.36	---	---	500
HT40	2	2437	35.94	36.41	---	---	500
HT40	2	2452	35.13	35.83	---	---	500



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	1	2412	13.16	---	---	---
11b	1	2437	12.97	---	---	---
11b	1	2462	12.41	---	---	---
11g	1	2412	17.71	---	---	---
11g	1	2437	26.29	---	---	---
11g	1	2462	16.84	---	---	---
HT20	2	2412	17.89	18.02	---	---
HT20	2	2437	25.16	25.42	---	---
HT20	2	2462	17.74	17.84	---	---
HT40	2	2422	36.24	36.44	---	---
HT40	2	2437	36.64	36.80	---	---
HT40	2	2452	36.28	36.48	---	---

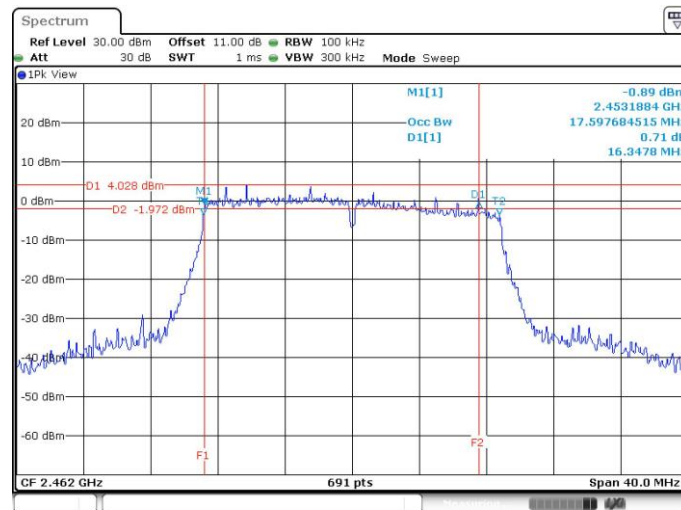
Worst Plots



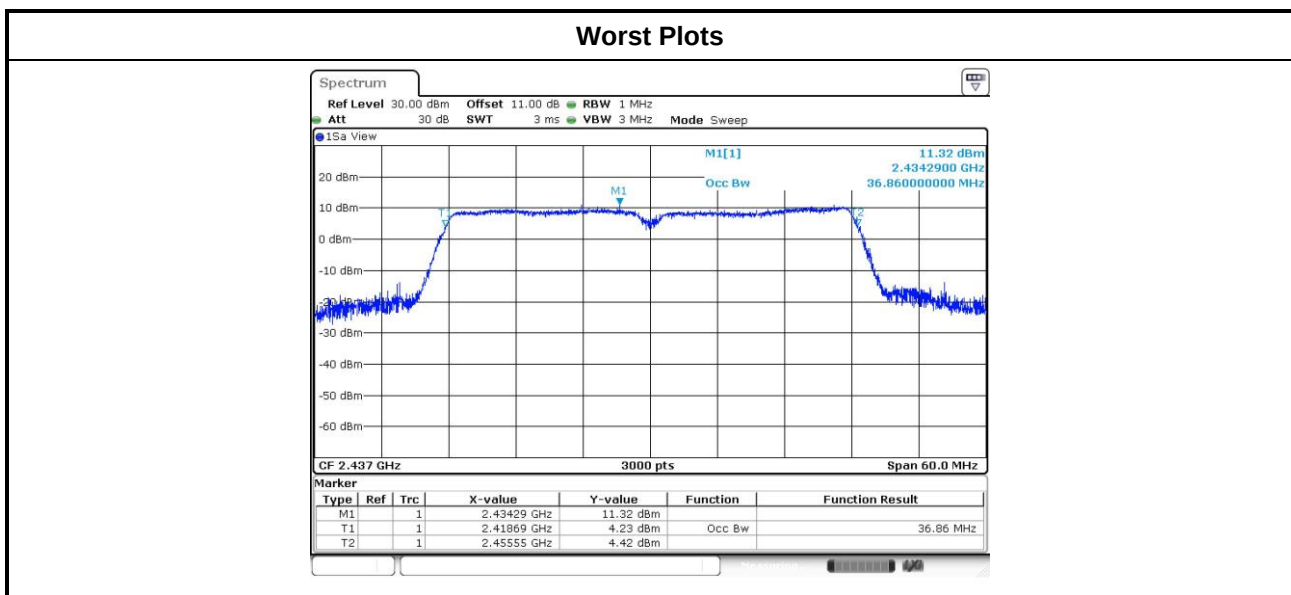
Beamforming mode - Test Configuration 3

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
HT20	2	2412	17.62	17.62	---	---	500
HT20	2	2437	17.62	17.57	---	---	500
HT20	2	2462	16.35	16.99	---	---	500
HT40	2	2422	35.71	35.25	---	---	500
HT40	2	2437	36.06	36.41	---	---	500
HT40	2	2452	35.13	35.94	---	---	500

Worst Plots



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
HT20	2	2412	18.06	17.83	---	---
HT20	2	2437	24.33	23.48	---	---
HT20	2	2462	17.81	17.70	---	---
HT40	2	2422	36.60	36.30	---	---
HT40	2	2437	36.86	36.68	---	---
HT40	2	2452	36.40	36.50	---	---



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

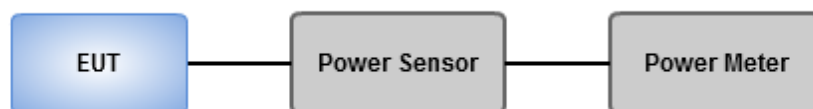
- ☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☐ Antenna gain $> 6\text{dBi}$
 - ☐ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
 - ☐ Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

- ☒ Maximum Peak Conducted Output Power
 - ☐ **Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - ☒ **Power meter**
 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- ☒ Maximum Conducted Output Power (For reference only)
 - ☒ **Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Non-beamforming mode - Test Configuration 1

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	1	2412	24.43	---	---	---	277.332	24.43	30.00
11b	1	2437	23.98	---	---	---	250.035	23.98	30.00
11b	1	2462	23.31	---	---	---	214.289	23.31	30.00
11g	1	2412	25.29	---	---	---	338.065	25.29	30.00
11g	1	2437	25.72	---	---	---	373.250	25.72	30.00
11g	1	2462	24.10	---	---	---	257.040	24.10	30.00
HT20	2	2412	24.25	24.23	---	---	530.923	27.25	30.00
HT20	2	2437	25.48	25.72	---	---	726.433	28.61	30.00
HT20	2	2462	23.10	23.42	---	---	423.960	26.27	30.00
HT40	2	2422	24.31	24.55	---	---	554.876	27.44	30.00
HT40	2	2437	24.01	24.35	---	---	524.038	27.19	30.00
HT40	2	2452	22.78	23.08	---	---	392.906	25.94	30.00

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	1	2412	22.05	---	---	---	160.325	22.05	---
11b	1	2437	21.51	---	---	---	141.579	21.51	---
11b	1	2462	20.55	---	---	---	113.501	20.55	---
11g	1	2412	20.25	---	---	---	105.925	20.25	---
11g	1	2437	23.28	---	---	---	212.814	23.28	---
11g	1	2462	18.04	---	---	---	63.680	18.04	---
HT20	2	2412	17.63	17.81	---	---	118.338	20.73	---
HT20	2	2437	22.75	23.21	---	---	397.776	26.00	---
HT20	2	2462	15.69	16.02	---	---	77.063	18.87	---
HT40	2	2422	17.38	17.72	---	---	113.858	20.56	---
HT40	2	2437	16.98	17.41	---	---	104.969	20.21	---
HT40	2	2452	14.95	15.41	---	---	66.014	18.20	---

Note: Conducted average output power is for reference only.

Beamforming mode - Test Configuration 3

Modulation Mode	N _{TX}	Freq. (MHz)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
HT20	2	2412	24.01	24.16	---	---	512.383	27.10	29.49
HT20	2	2437	25.25	25.58	---	---	696.375	28.43	29.49
HT20	2	2462	22.75	23.16	---	---	395.379	25.97	29.49
HT40	2	2422	24.16	24.29	---	---	529.150	27.24	29.49
HT40	2	2437	23.21	23.68	---	---	442.757	26.46	29.49
HT40	2	2452	23.02	23.43	---	---	420.740	26.24	29.49

Note: Directional gain = $3.5 + 10 \cdot \log(2/1) = 6.51 \text{ dBi} > 6 \text{ dBi}$.

Limit shall be reduced to 30 dBm – (6.51 dBi – 6 dBi) = 29.49 dBm.

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
HT20	2	2412	17.21	17.34	---	---	106.802	20.29	---
HT20	2	2437	22.26	22.80	---	---	358.813	25.55	---
HT20	2	2462	15.21	15.65	---	---	69.918	18.45	---
HT40	2	2422	17.02	17.35	---	---	104.675	20.20	---
HT40	2	2437	16.02	16.58	---	---	85.493	19.32	---
HT40	2	2452	15.32	15.82	---	---	72.235	18.59	---

Note: Conducted average output power is for reference only.

3.4 Power Spectral Density

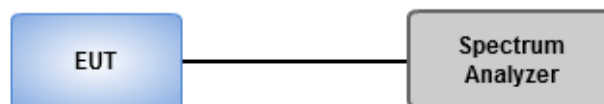
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 3kHz, VBW = 10kHz.
 2. Detector = Peak, Sweep time = auto couple.
 3. Trace mode = max hold, allow trace to fully stabilize.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 4. Perform the measurement over a single sweep.
 5. Use the peak marker function to determine the maximum amplitude level.

3.4.3 Test Setup



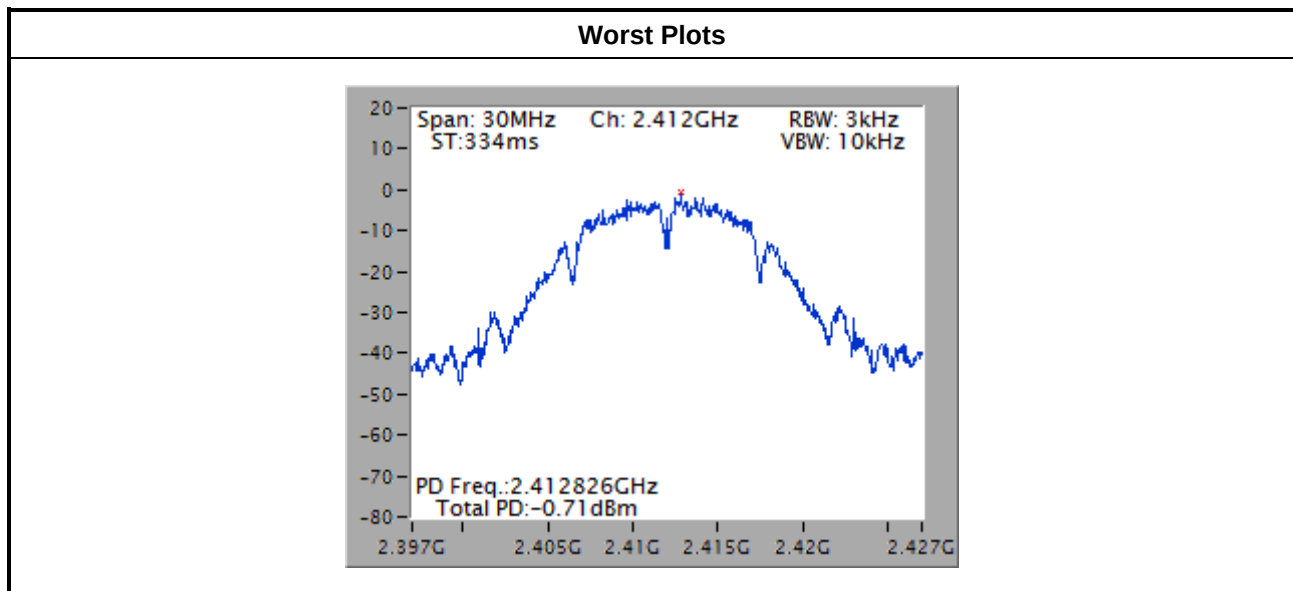
3.4.4 Test Result of Power Spectral Density

Non-beamforming mode - Test Configuration 1

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	1	2412	-0.71	8.00
11b	1	2437	-2.95	8.00
11b	1	2462	-2.74	8.00
11g	1	2412	-6.30	8.00
11g	1	2437	-3.29	8.00
11g	1	2462	-6.64	8.00
HT20	2	2412	-5.80	7.49
HT20	2	2437	-1.32	7.49
HT20	2	2462	-7.39	7.49
HT40	2	2422	-8.49	7.49
HT40	2	2437	-8.60	7.49
HT40	2	2452	-9.77	7.49

Note:

1. Test result for HT20 / HT40 is bin-by-bin summing measured value of each TX port.
2. Directional gain = $3.5 + 10 \cdot \log(2/1) = 6.51 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $8 \text{ dBm} - (6.51 \text{ dBi} - 6 \text{ dBi}) = 7.49 \text{ dBm}$.



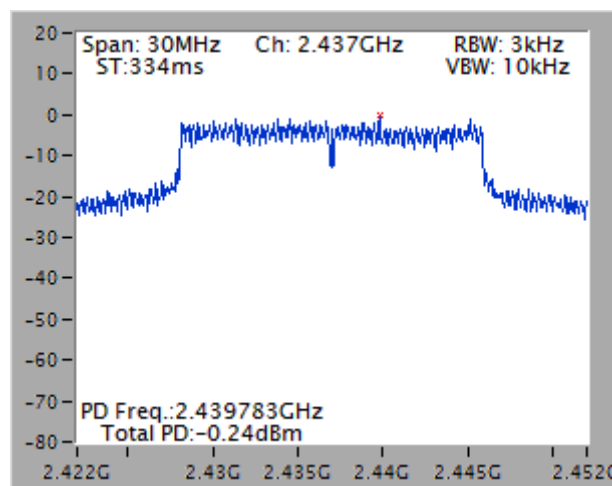
Beamforming mode - Test Configuration 3

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
HT20	2	2412	-6.44	7.49
HT20	2	2437	-0.24	7.49
HT20	2	2462	-8.07	7.49
HT40	2	2422	-7.89	7.49
HT40	2	2437	-8.17	7.49
HT40	2	2452	-8.85	7.49

Note:

1. Test result for HT20 / HT40 is bin-by-bin summing measured value of each TX port.
2. Directional gain = $3.5 + 10 \cdot \log(2/1) = 6.51 \text{ dBi} > 6 \text{ dBi}$.
Limit shall be reduced to $8 \text{ dBm} - (6.51 \text{ dBi} - 6 \text{ dBi}) = 7.49 \text{ dBm}$.

Worst Plots



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

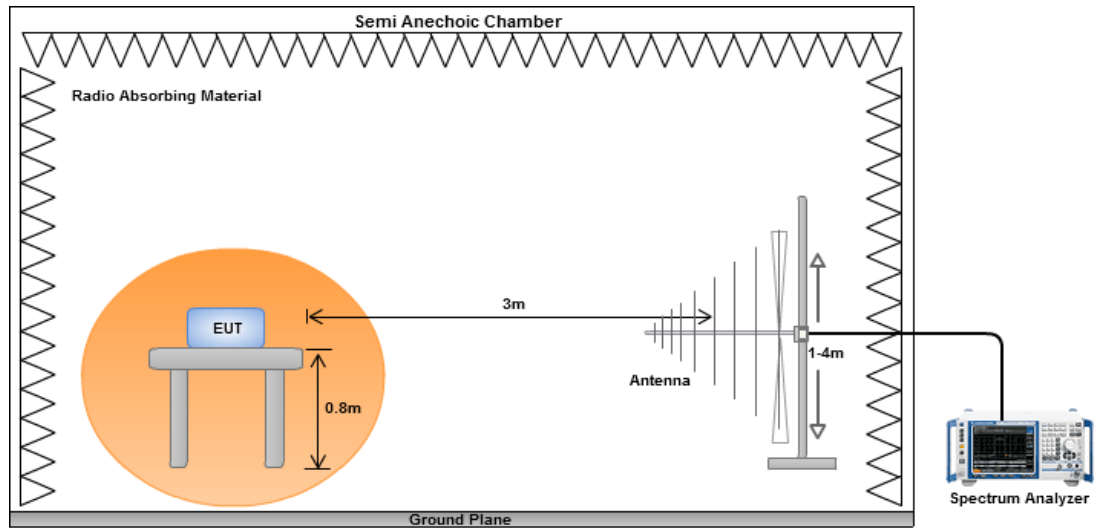
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

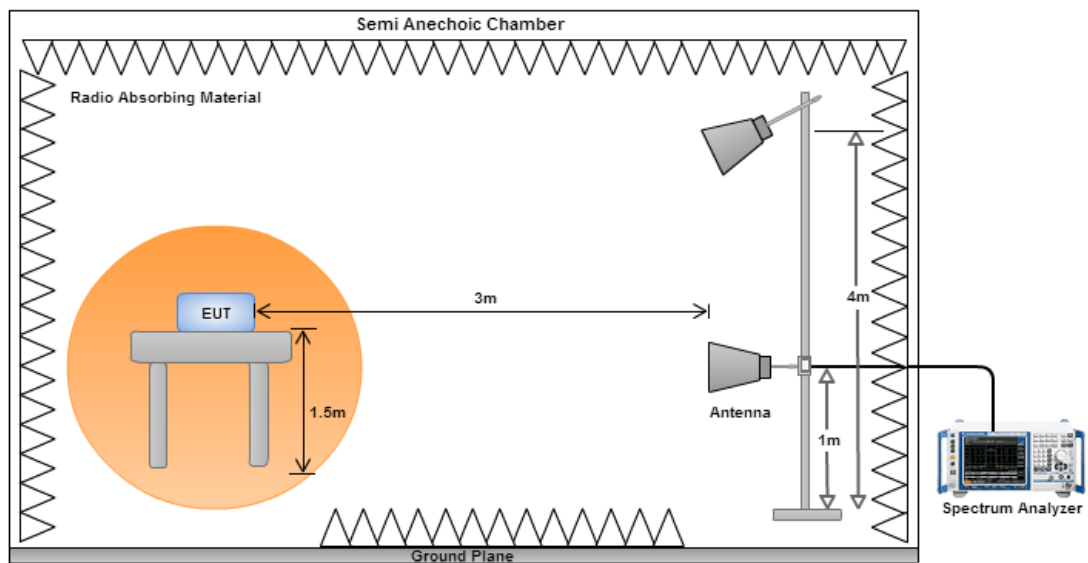
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz



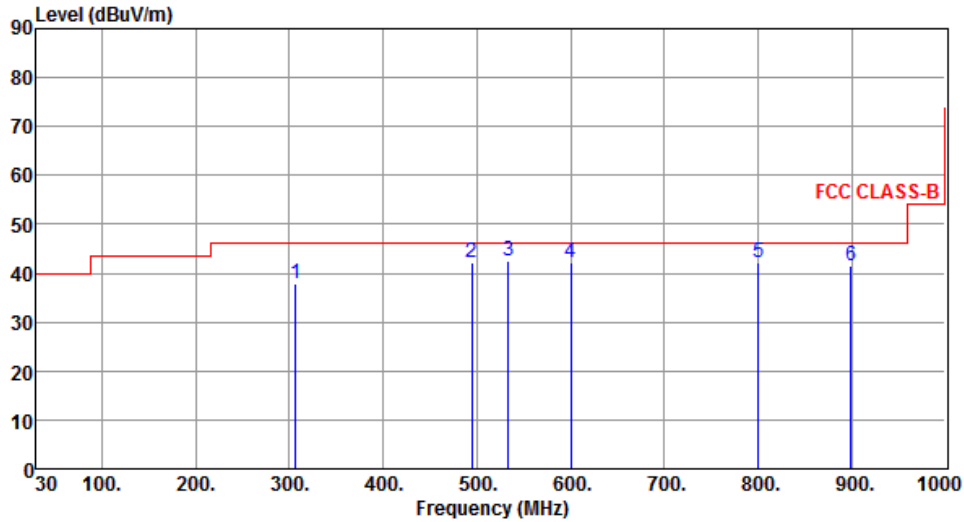
Radiated Emissions above 1 GHz



Non-beamforming mode

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

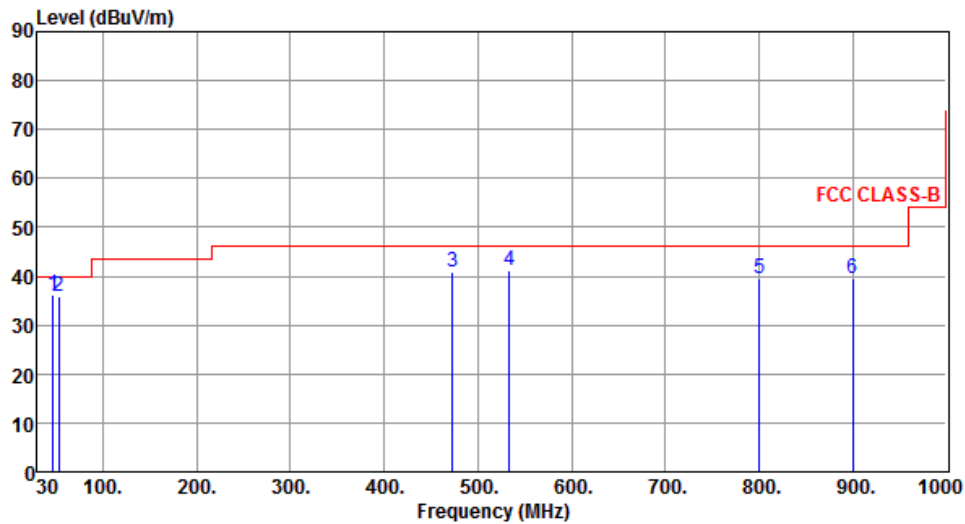


The graph displays the Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 300 MHz, 50 dBuV/m from 300 to 900 MHz, and 55 dBuV/m from 900 to 1000 MHz. Six test results are plotted as blue vertical lines, labeled 1 through 6, with their peak values indicated by horizontal lines. The values are: 1 (306.45 MHz, 37.74 dBuV/m), 2 (494.63 MHz, 42.05 dBuV/m), 3 (533.43 MHz, 42.47 dBuV/m), 4 (600.36 MHz, 42.06 dBuV/m), 5 (800.18 MHz, 42.30 dBuV/m), and 6 (899.12 MHz, 41.65 dBuV/m). All test results are below the FCC CLASS-B limit.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	306.45	37.74	46.00	-8.26	50.22	-12.48	Peak	---	---
2	494.63	42.05	46.00	-3.95	49.82	-7.77	QP	---	---
3	533.43	42.47	46.00	-3.53	49.73	-7.26	QP	---	---
4	600.36	42.06	46.00	-3.94	47.78	-5.72	Peak	---	---
5	800.18	42.30	46.00	-3.70	44.86	-2.56	Peak	---	---
6	899.12	41.65	46.00	-4.35	42.33	-0.68	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	36.31	40.00	-3.69	49.16	-12.85	QP	---	---
2	53.09	35.77	40.00	-4.23	49.14	-13.37	QP	---	---
3	473.29	40.94	46.00	-5.06	49.18	-8.24	Peak	---	---
4	533.43	41.12	46.00	-4.88	48.38	-7.26	Peak	---	---
5	800.18	39.51	46.00	-6.49	42.07	-2.56	Peak	---	---
6	900.09	39.47	46.00	-6.53	40.14	-0.67	Peak	---	---

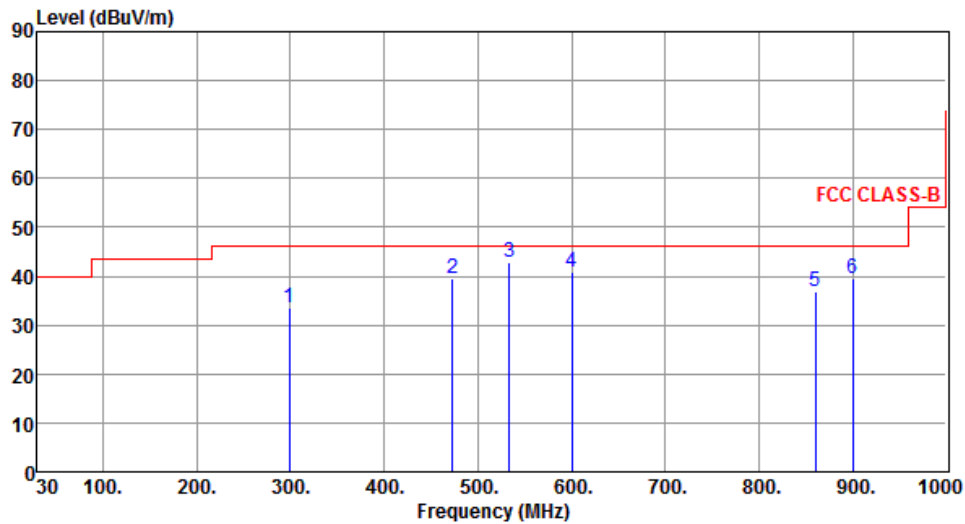
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	298.69	33.65	46.00	-12.35	46.34	-12.69	Peak	---	---
2	473.29	39.39	46.00	-6.61	47.63	-8.24	Peak	---	---
3	533.43	42.94	46.00	-3.06	50.20	-7.26	QP	---	---
4	600.36	40.89	46.00	-5.11	46.61	-5.72	Peak	---	---
5	860.32	36.87	46.00	-9.13	38.38	-1.51	Peak	---	---
6	900.09	39.58	46.00	-6.42	40.25	-0.67	Peak	---	---

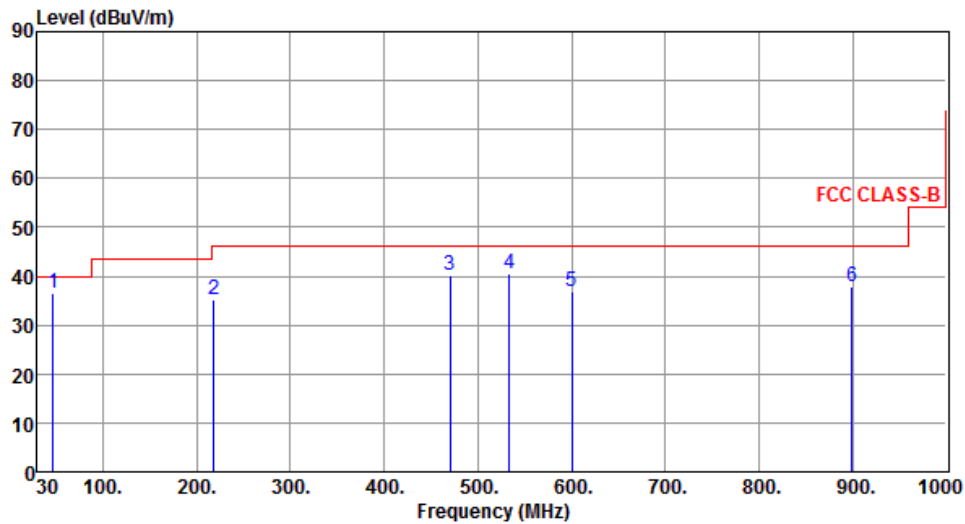
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	36.51	40.00	-3.49	49.36	-12.85	QP	---	---
2	218.18	35.08	46.00	-10.92	51.14	-16.06	Peak	---	---
3	470.38	40.34	46.00	-5.66	48.65	-8.31	Peak	---	---
4	533.43	40.49	46.00	-5.51	47.75	-7.26	Peak	---	---
5	600.36	36.92	46.00	-9.08	42.64	-5.72	Peak	---	---
6	899.12	37.99	46.00	-8.01	38.67	-0.68	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

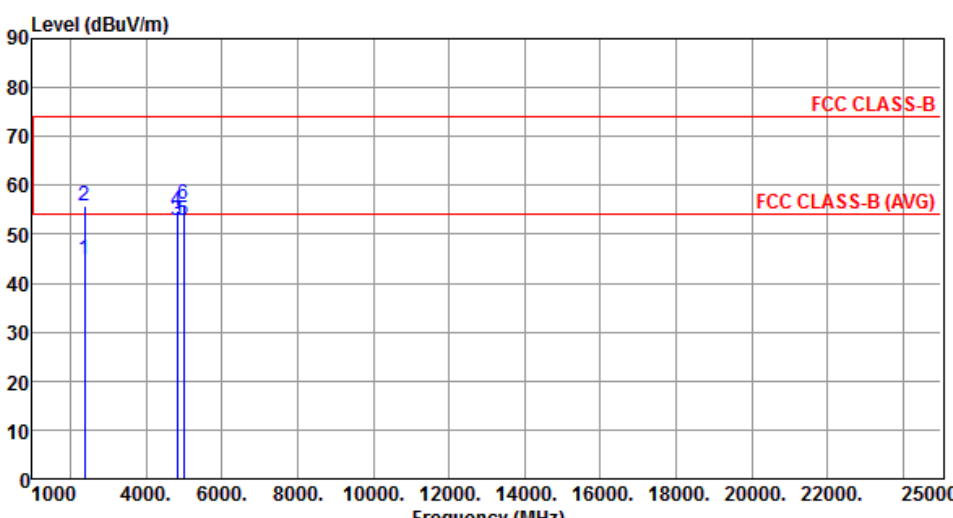
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

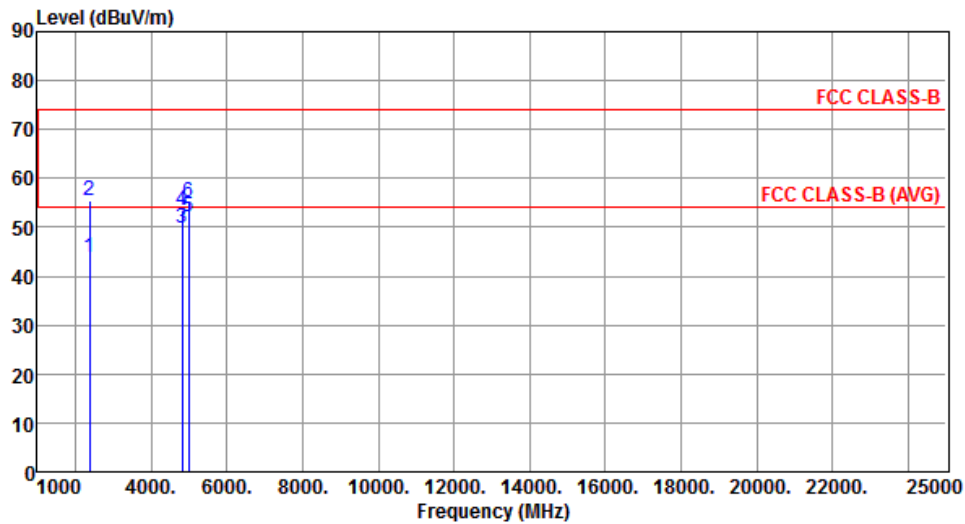
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	44.73	54.00	-9.27	45.95	-1.22	Average	---	---
2	2390.00	55.80	74.00	-18.20	57.02	-1.22	Peak	---	---
3	4824.00	52.67	54.00	-1.33	45.66	7.01	Average	---	---
4	4824.00	54.95	74.00	-19.05	47.94	7.01	Peak	---	---
5	5000.00	52.90	54.00	-1.10	46.60	6.30	Average	---	---
6	5000.00	56.05	74.00	-17.95	49.75	6.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



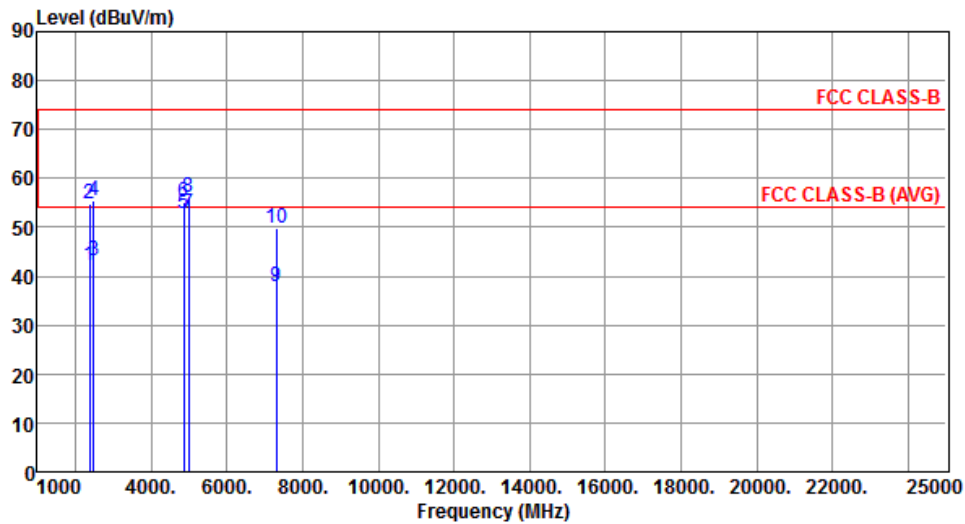
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	43.85	54.00	-10.15	45.07	-1.22	Average	---	---
2	2390.00	55.36	74.00	-18.64	56.58	-1.22	Peak	---	---
3	4824.00	49.76	54.00	-4.24	42.75	7.01	Average	---	---
4	4824.00	53.61	74.00	-20.39	46.60	7.01	Peak	---	---
5	5000.00	52.13	54.00	-1.87	45.83	6.30	Average	---	---
6	5000.00	55.23	74.00	-18.77	48.93	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



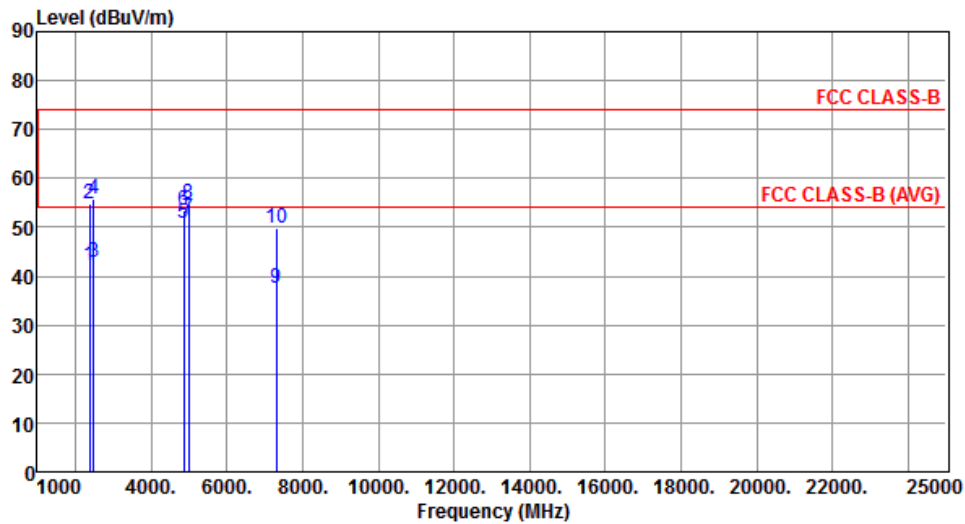
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	42.21	54.00	-11.79	43.43	-1.22	Average	---	---
2	2390.00	54.65	74.00	-19.35	55.87	-1.22	Peak	---	---
3	2483.50	43.11	54.00	-10.89	44.00	-0.89	Average	---	---
4	2483.50	55.36	74.00	-18.64	56.25	-0.89	Peak	---	---
5	4874.00	52.77	54.00	-1.23	45.96	6.81	Average	---	---
6	4874.00	55.18	74.00	-18.82	48.37	6.81	Peak	---	---
7	5000.00	52.97	54.00	-1.03	46.67	6.30	Average	---	---
8	5000.00	56.03	74.00	-17.97	49.73	6.30	Peak	---	---
9	7311.00	37.74	54.00	-16.26	26.78	10.96	Average	---	---
10	7311.00	49.92	74.00	-24.08	38.96	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



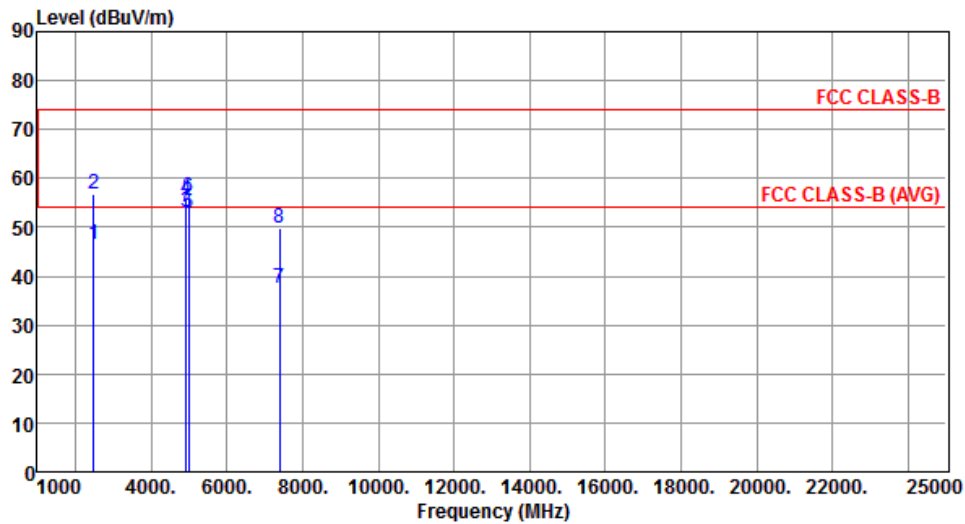
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	42.27	54.00	-11.73	43.49	-1.22	Average	---	---
2	2390.00	54.91	74.00	-19.09	56.13	-1.22	Peak	---	---
3	2483.50	42.81	54.00	-11.19	43.70	-0.89	Average	---	---
4	2483.50	55.84	74.00	-18.16	56.73	-0.89	Peak	---	---
5	4874.00	50.89	54.00	-3.11	44.08	6.81	Average	---	---
6	4874.00	53.46	74.00	-20.54	46.65	6.81	Peak	---	---
7	5000.00	51.92	54.00	-2.08	45.62	6.30	Average	---	---
8	5000.00	54.87	74.00	-19.13	48.57	6.30	Peak	---	---
9	7311.00	37.38	54.00	-16.62	26.42	10.96	Average	---	---
10	7311.00	49.67	74.00	-24.33	38.71	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



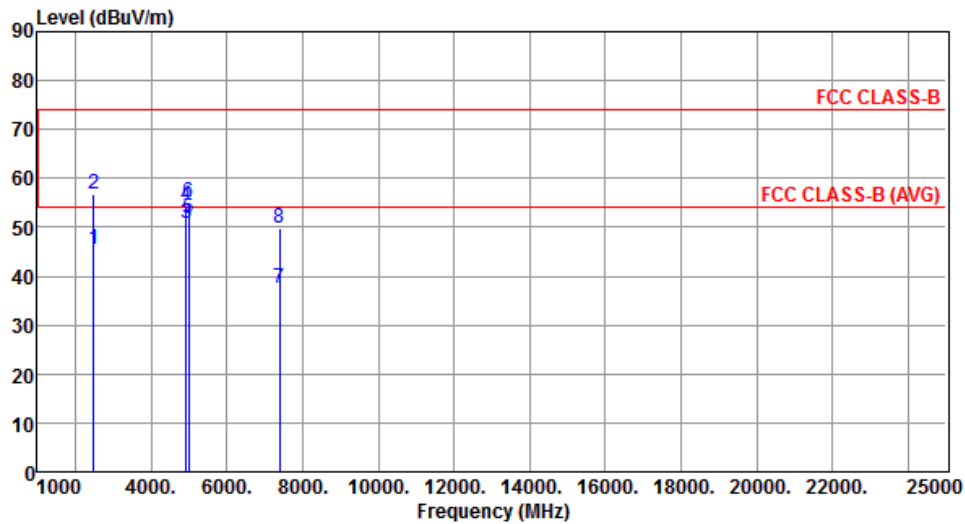
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	46.57	54.00	-7.43	47.46	-0.89	Average	---	---
2	2483.50	56.95	74.00	-17.05	57.84	-0.89	Peak	---	---
3	4924.00	53.00	54.00	-1.00	46.40	6.60	Average	---	---
4	4924.00	55.63	74.00	-18.37	49.03	6.60	Peak	---	---
5	5000.00	52.95	54.00	-1.05	46.65	6.30	Average	---	---
6	5000.00	56.03	74.00	-17.97	49.73	6.30	Peak	---	---
7	7386.00	37.67	54.00	-16.33	26.55	11.12	Average	---	---
8	7386.00	49.80	74.00	-24.20	38.68	11.12	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	45.48	54.00	-8.52	46.37	-0.89	Average	---	---
2	2483.50	56.79	74.00	-17.21	57.68	-0.89	Peak	---	---
3	4924.00	50.82	54.00	-3.18	44.22	6.60	Average	---	---
4	4924.00	54.46	74.00	-19.54	47.86	6.60	Peak	---	---
5	5000.00	51.87	54.00	-2.13	45.57	6.30	Average	---	---
6	5000.00	55.02	74.00	-18.98	48.72	6.30	Peak	---	---
7	7386.00	37.64	54.00	-16.36	26.52	11.12	Average	---	---
8	7386.00	49.79	74.00	-24.21	38.67	11.12	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

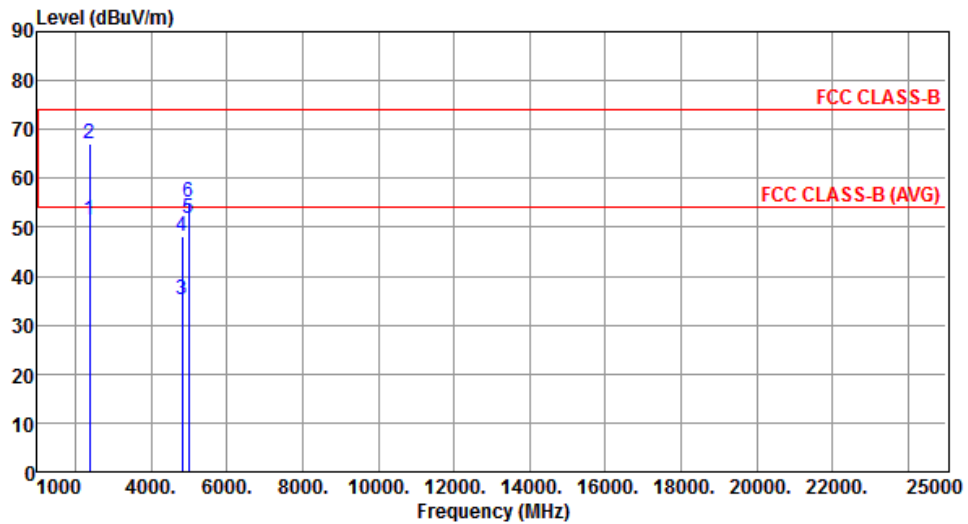
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	52.95	54.00	-1.05	54.17	-1.22	Average	---	---
2	2390.00	70.59	74.00	-3.41	71.81	-1.22	Peak	---	---
3	4824.00	36.68	54.00	-17.32	29.67	7.01	Average	---	---
4	4824.00	49.00	74.00	-25.00	41.99	7.01	Peak	---	---
5	5000.00	52.97	54.00	-1.03	46.67	6.30	Average	---	---
6	5000.00	56.15	74.00	-17.85	49.85	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



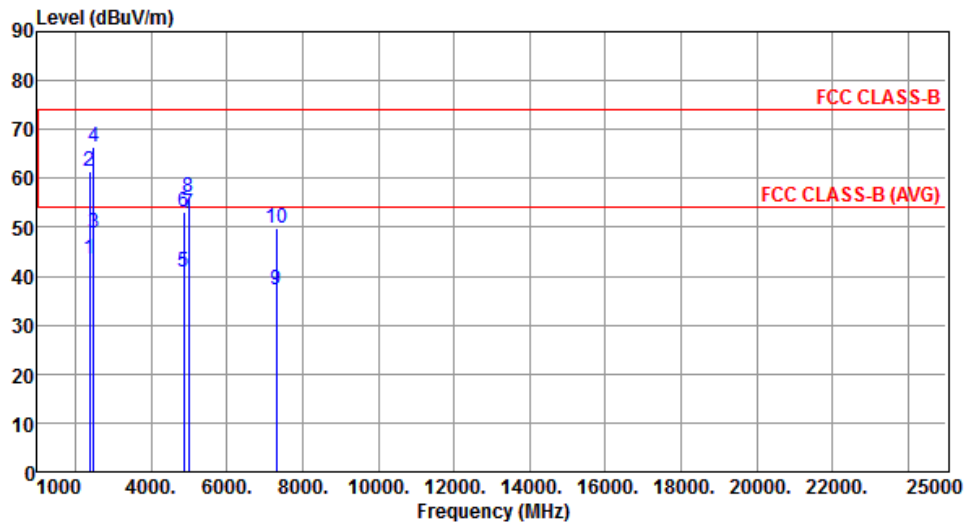
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.33	54.00	-2.67	52.55	-1.22	Average	---	---
2	2390.00	67.09	74.00	-6.91	68.31	-1.22	Peak	---	---
3	4824.00	35.26	54.00	-18.74	28.25	7.01	Average	---	---
4	4824.00	48.08	74.00	-25.92	41.07	7.01	Peak	---	---
5	5000.00	51.92	54.00	-2.08	45.62	6.30	Average	---	---
6	5000.00	55.07	74.00	-18.93	48.77	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



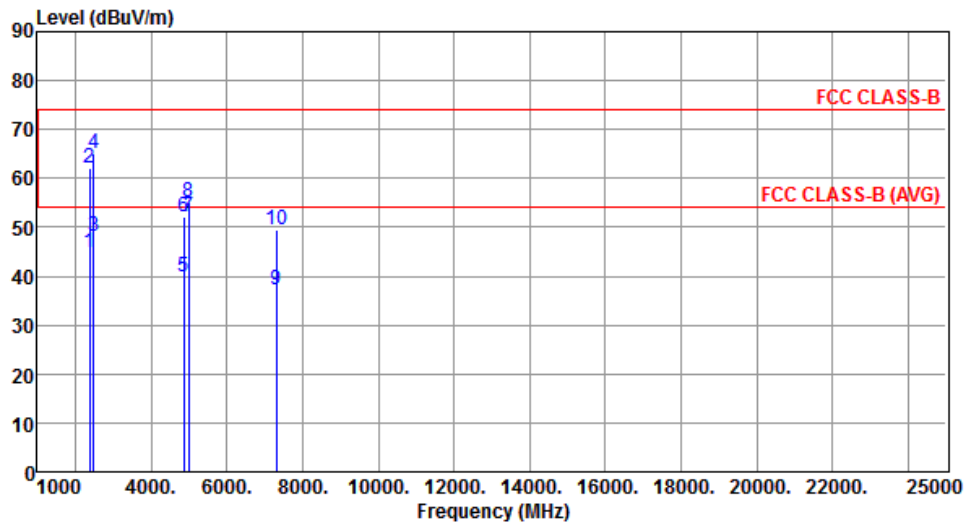
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	43.52	54.00	-10.48	44.74	-1.22	Average	---	---
2	2390.00	61.32	74.00	-12.68	62.54	-1.22	Peak	---	---
3	2483.50	48.83	54.00	-5.17	49.72	-0.89	Average	---	---
4	2483.50	66.47	74.00	-7.53	67.36	-0.89	Peak	---	---
5	4874.00	40.94	54.00	-13.06	34.13	6.81	Average	---	---
6	4874.00	53.15	74.00	-20.85	46.34	6.81	Peak	---	---
7	5000.00	52.96	54.00	-1.04	46.66	6.30	Average	---	---
8	5000.00	56.13	74.00	-17.87	49.83	6.30	Peak	---	---
9	7311.00	37.17	54.00	-16.83	26.21	10.96	Average	---	---
10	7311.00	49.72	74.00	-24.28	38.76	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



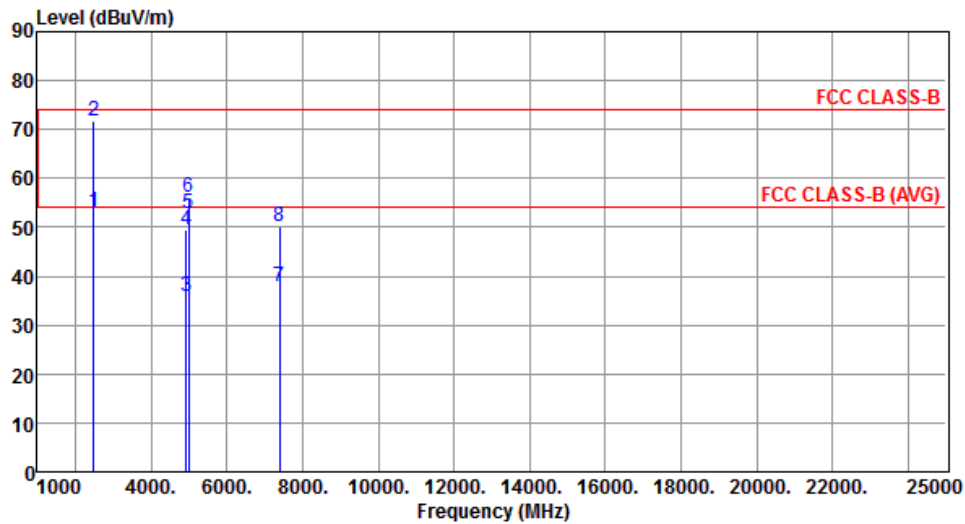
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	44.68	54.00	-9.32	45.90	-1.22	Average	---	---
2	2390.00	62.06	74.00	-11.94	63.28	-1.22	Peak	---	---
3	2483.50	48.14	54.00	-5.86	49.03	-0.89	Average	---	---
4	2483.50	64.94	74.00	-9.06	65.83	-0.89	Peak	---	---
5	4874.00	39.73	54.00	-14.27	32.92	6.81	Average	---	---
6	4874.00	52.20	74.00	-21.80	45.39	6.81	Peak	---	---
7	5000.00	52.15	54.00	-1.85	45.85	6.30	Average	---	---
8	5000.00	55.02	74.00	-18.98	48.72	6.30	Peak	---	---
9	7311.00	37.20	54.00	-16.80	26.24	10.96	Average	---	---
10	7311.00	49.55	74.00	-24.45	38.59	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



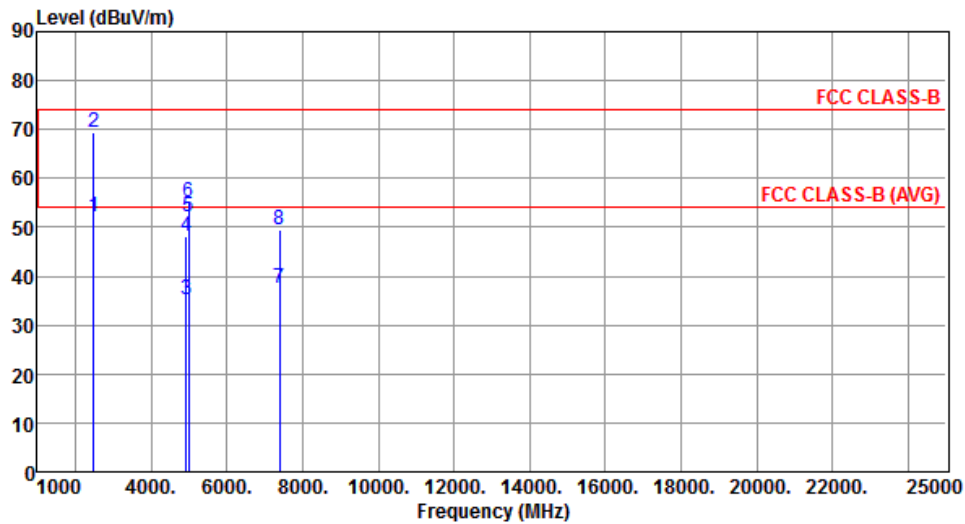
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	53.00	54.00	-1.00	53.89	-0.89	Average	---	---
2	2483.50	71.69	74.00	-2.31	72.58	-0.89	Peak	---	---
3	4924.00	35.94	54.00	-18.06	29.34	6.60	Average	---	---
4	4924.00	49.46	74.00	-24.54	42.86	6.60	Peak	---	---
5	5000.00	52.91	54.00	-1.09	46.61	6.30	Average	---	---
6	5000.00	56.03	74.00	-17.97	49.73	6.30	Peak	---	---
7	7386.00	37.82	54.00	-16.18	26.70	11.12	Average	---	---
8	7386.00	50.05	74.00	-23.95	38.93	11.12	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	51.98	54.00	-2.02	52.87	-0.89	Average	---	---
2	2483.50	69.50	74.00	-4.50	70.39	-0.89	Peak	---	---
3	4924.00	35.15	54.00	-18.85	28.55	6.60	Average	---	---
4	4924.00	48.29	74.00	-25.71	41.69	6.60	Peak	---	---
5	5000.00	52.06	54.00	-1.94	45.76	6.30	Average	---	---
6	5000.00	54.97	74.00	-19.03	48.67	6.30	Peak	---	---
7	7386.00	37.36	54.00	-16.64	26.24	11.12	Average	---	---
8	7386.00	49.49	74.00	-24.51	38.37	11.12	Peak	---	---

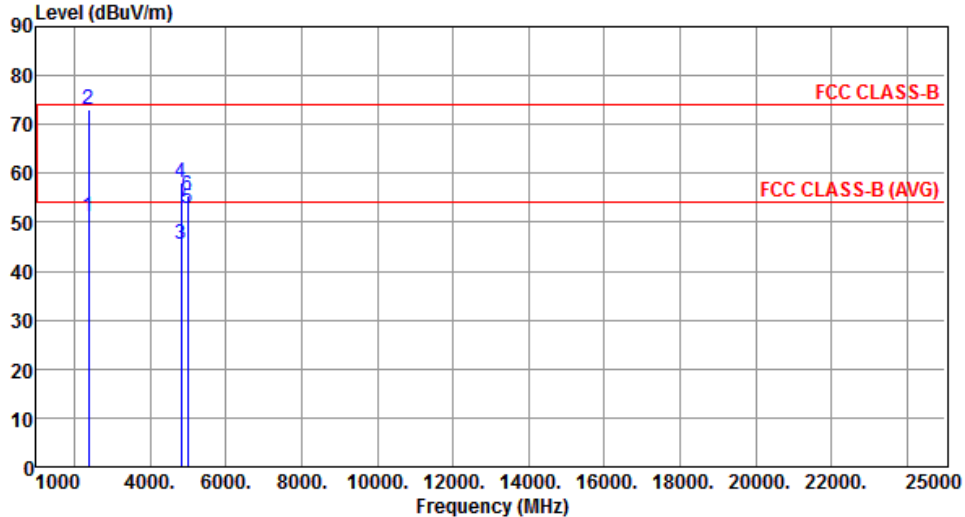
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

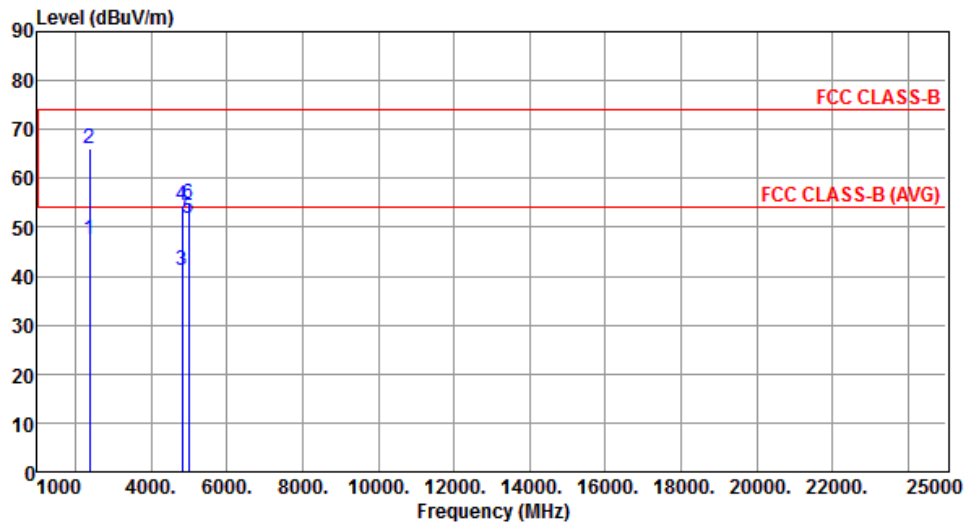
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.15	54.00	-2.85	52.37	-1.22	Average	---	---
2	2390.00	72.98	74.00	-1.02	74.20	-1.22	Peak	---	---
3	4824.00	45.45	54.00	-8.55	38.44	7.01	Average	---	---
4	4824.00	58.28	74.00	-15.72	51.27	7.01	Peak	---	---
5	5000.00	52.91	54.00	-1.09	46.61	6.30	Average	---	---
6	5000.00	55.61	74.00	-18.39	49.31	6.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



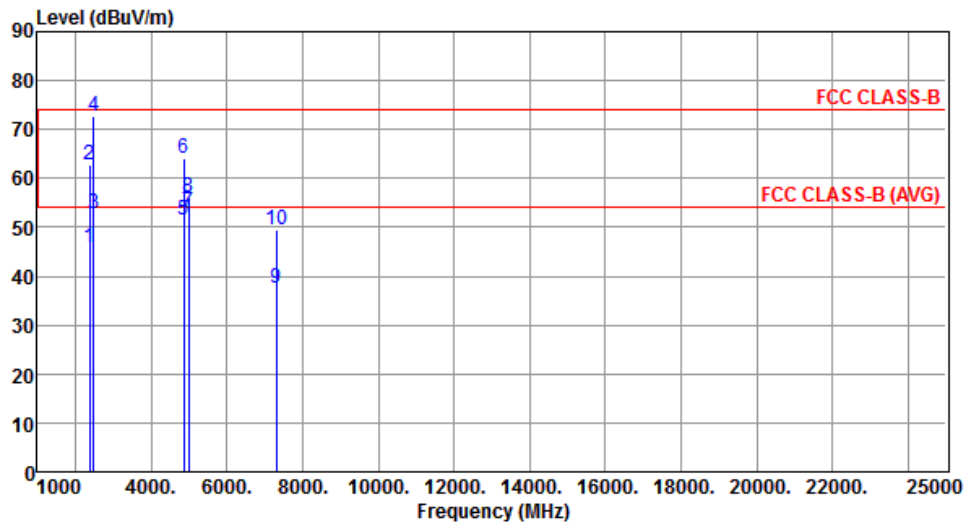
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.65	54.00	-6.35	48.87	-1.22	Average	---	---
2	2390.00	66.17	74.00	-7.83	67.39	-1.22	Peak	---	---
3	4824.00	41.34	54.00	-12.66	34.33	7.01	Average	---	---
4	4824.00	54.55	74.00	-19.45	47.54	7.01	Peak	---	---
5	5000.00	51.97	54.00	-2.03	45.67	6.30	Average	---	---
6	5000.00	54.96	74.00	-19.04	48.66	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



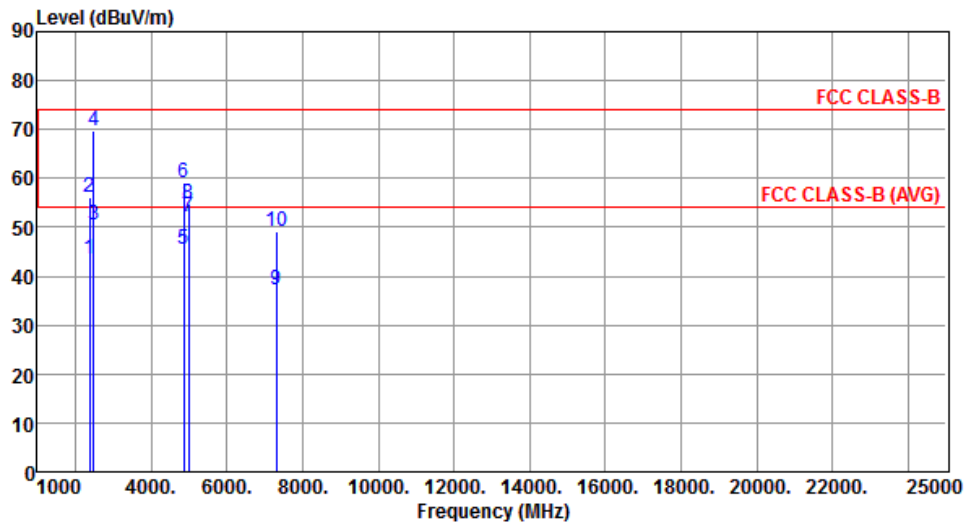
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	45.89	54.00	-8.11	47.11	-1.22	Average	---	---
2	2390.00	62.72	74.00	-11.28	63.94	-1.22	Peak	---	---
3	2483.50	52.97	54.00	-1.03	53.86	-0.89	Average	---	---
4	2483.50	72.88	74.00	-1.12	73.77	-0.89	Peak	---	---
5	4874.00	51.37	54.00	-2.63	44.56	6.81	Average	---	---
6	4874.00	64.02	74.00	-9.98	57.21	6.81	Peak	---	---
7	5000.00	52.98	54.00	-1.02	46.68	6.30	Average	---	---
8	5000.00	56.06	74.00	-17.94	49.76	6.30	Peak	---	---
9	7311.00	37.50	54.00	-16.50	26.54	10.96	Average	---	---
10	7311.00	49.34	74.00	-24.66	38.38	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



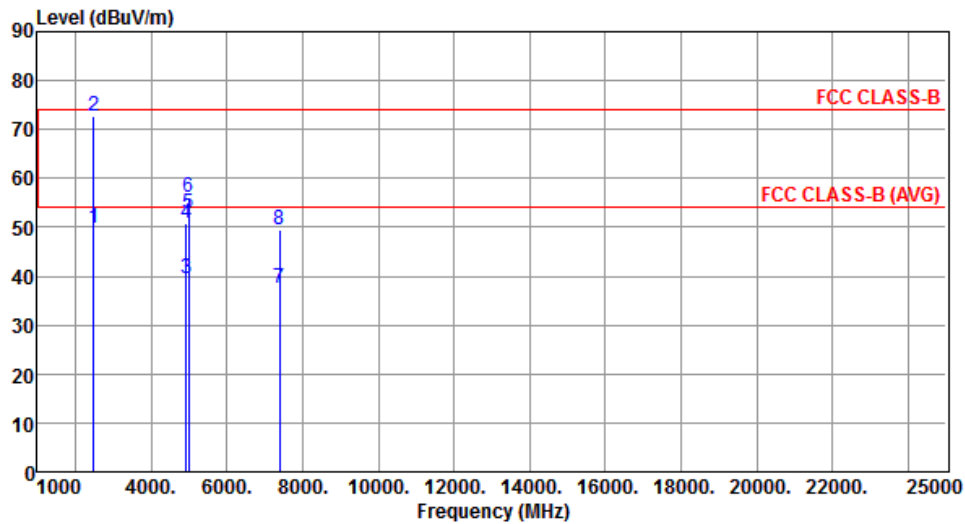
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	43.53	54.00	-10.47	44.75	-1.22	Average	---	---
2	2390.00	56.26	74.00	-17.74	57.48	-1.22	Peak	---	---
3	2483.50	50.33	54.00	-3.67	51.22	-0.89	Average	---	---
4	2483.50	69.65	74.00	-4.35	70.54	-0.89	Peak	---	---
5	4874.00	45.40	54.00	-8.60	38.59	6.81	Average	---	---
6	4874.00	59.23	74.00	-14.77	52.42	6.81	Peak	---	---
7	5000.00	52.02	54.00	-1.98	45.72	6.30	Average	---	---
8	5000.00	54.88	74.00	-19.12	48.58	6.30	Peak	---	---
9	7311.00	37.29	54.00	-16.71	26.33	10.96	Average	---	---
10	7311.00	49.20	74.00	-24.80	38.24	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



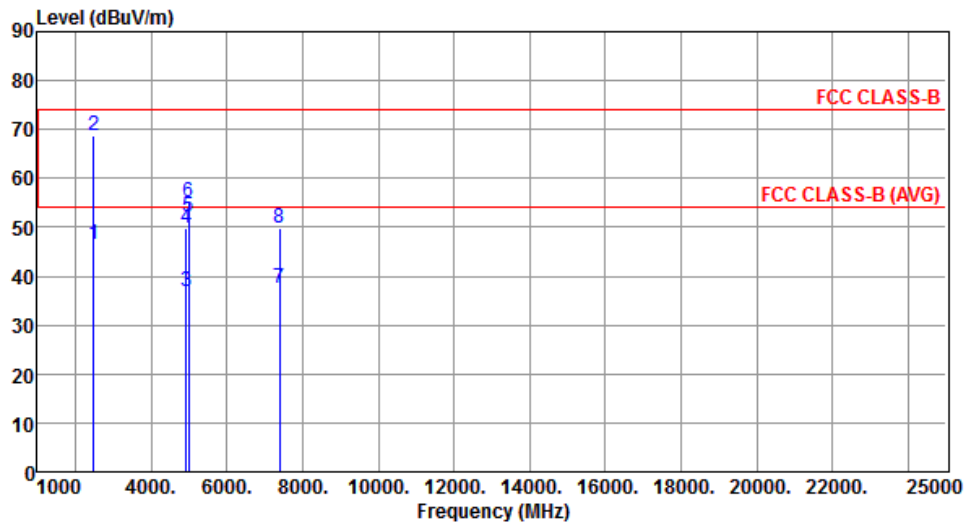
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	49.68	54.00	-4.32	50.57	-0.89	Average	---	---
2	2483.50	72.87	74.00	-1.13	73.76	-0.89	Peak	---	---
3	4924.00	39.47	54.00	-14.53	32.87	6.60	Average	---	---
4	4924.00	50.86	74.00	-23.14	44.26	6.60	Peak	---	---
5	5000.00	52.97	54.00	-1.03	46.67	6.30	Average	---	---
6	5000.00	55.99	74.00	-18.01	49.69	6.30	Peak	---	---
7	7386.00	37.57	54.00	-16.43	26.45	11.12	Average	---	---
8	7386.00	49.48	74.00	-24.52	38.36	11.12	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	46.61	54.00	-7.39	47.50	-0.89	Average	---	---
2	2483.50	68.66	74.00	-5.34	69.55	-0.89	Peak	---	---
3	4924.00	36.82	54.00	-17.18	30.22	6.60	Average	---	---
4	4924.00	49.67	74.00	-24.33	43.07	6.60	Peak	---	---
5	5000.00	52.05	54.00	-1.95	45.75	6.30	Average	---	---
6	5000.00	54.99	74.00	-19.01	48.69	6.30	Peak	---	---
7	7386.00	37.36	54.00	-16.64	26.24	11.12	Average	---	---
8	7386.00	49.65	74.00	-24.35	38.53	11.12	Peak	---	---

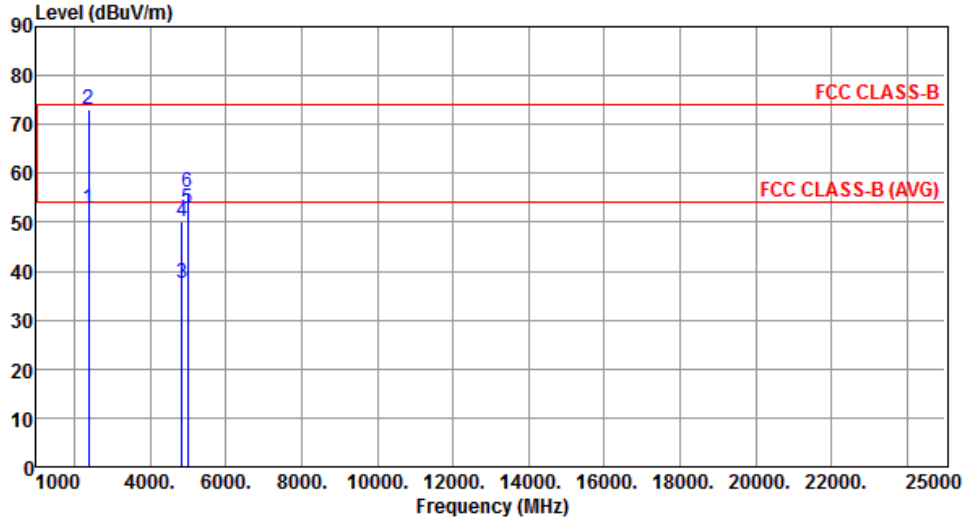
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

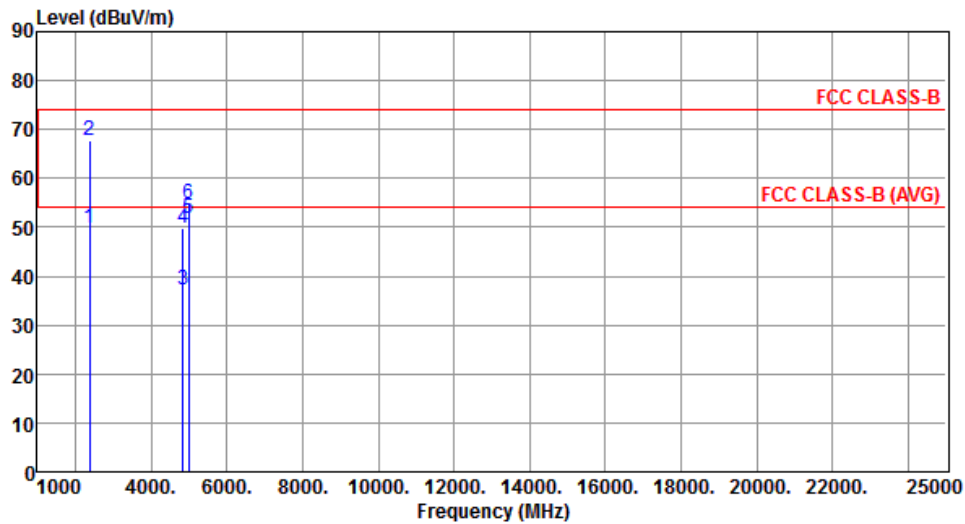
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	52.67	54.00	-1.33	53.89	-1.22	Average	---	---
2	2390.00	72.99	74.00	-1.01	74.21	-1.22	Peak	---	---
3	4844.00	37.48	54.00	-16.52	30.54	6.94	Average	---	---
4	4844.00	50.25	74.00	-23.75	43.31	6.94	Peak	---	---
5	5000.00	52.90	54.00	-1.10	46.60	6.30	Average	---	---
6	5000.00	55.97	74.00	-18.03	49.67	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	1



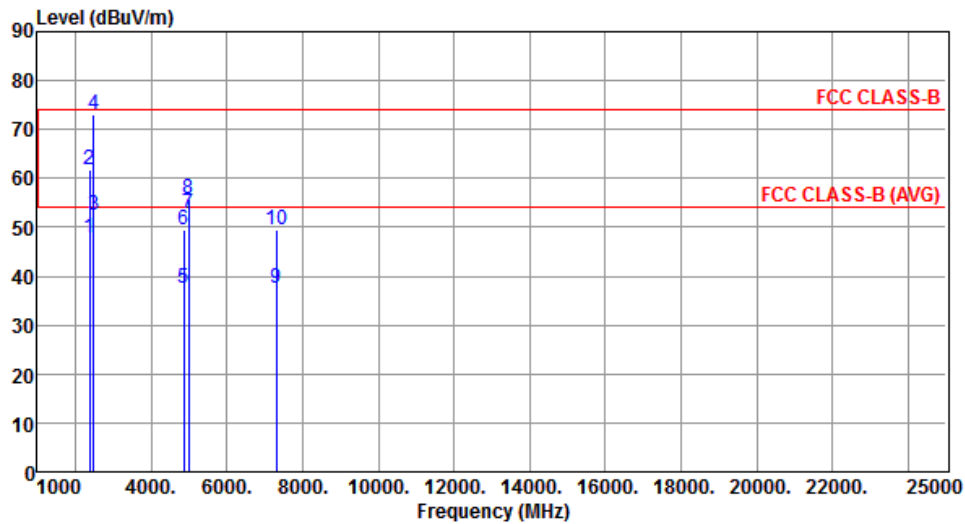
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.79	54.00	-4.21	51.01	-1.22	Average	---	---
2	2390.00	67.86	74.00	-6.14	69.08	-1.22	Peak	---	---
3	4844.00	37.07	54.00	-16.93	30.13	6.94	Average	---	---
4	4844.00	49.79	74.00	-24.21	42.85	6.94	Peak	---	---
5	5000.00	51.96	54.00	-2.04	45.66	6.30	Average	---	---
6	5000.00	54.67	74.00	-19.33	48.37	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



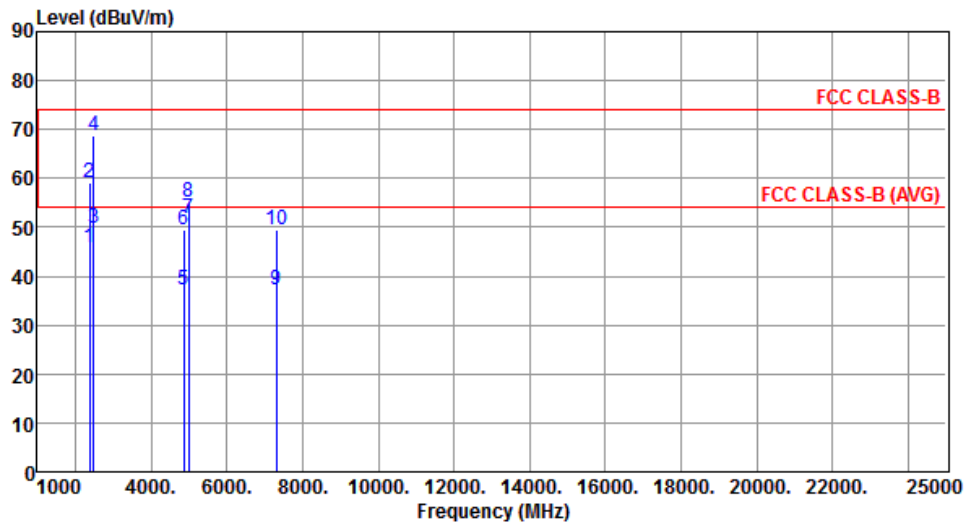
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.87	54.00	-6.13	49.09	-1.22	Average	---	---
2	2390.00	61.92	74.00	-12.08	63.14	-1.22	Peak	---	---
3	2483.50	52.54	54.00	-1.46	53.43	-0.89	Average	---	---
4	2483.50	72.97	74.00	-1.03	73.86	-0.89	Peak	---	---
5	4874.00	37.40	54.00	-16.60	30.59	6.81	Average	---	---
6	4874.00	49.46	74.00	-24.54	42.65	6.81	Peak	---	---
7	5000.00	52.93	54.00	-1.07	46.63	6.30	Average	---	---
8	5000.00	55.86	74.00	-18.14	49.56	6.30	Peak	---	---
9	7311.00	37.38	54.00	-16.62	26.42	10.96	Average	---	---
10	7311.00	49.33	74.00	-24.67	38.37	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



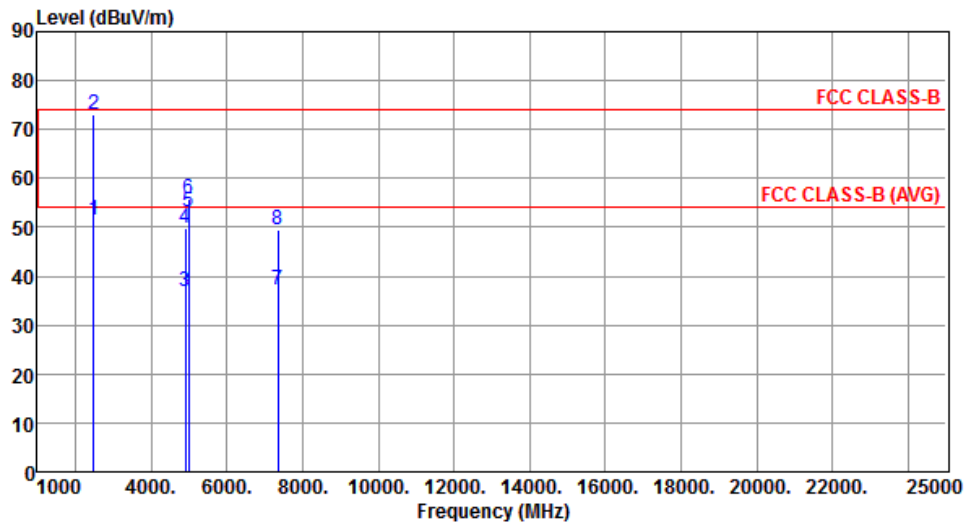
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	45.86	54.00	-8.14	47.08	-1.22	Average	---	---
2	2390.00	58.98	74.00	-15.02	60.20	-1.22	Peak	---	---
3	2483.50	49.85	54.00	-4.15	50.74	-0.89	Average	---	---
4	2483.50	68.69	74.00	-5.31	69.58	-0.89	Peak	---	---
5	4874.00	37.14	54.00	-16.86	30.33	6.81	Average	---	---
6	4874.00	49.37	74.00	-24.63	42.56	6.81	Peak	---	---
7	5000.00	51.92	54.00	-2.08	45.62	6.30	Average	---	---
8	5000.00	55.26	74.00	-18.74	48.96	6.30	Peak	---	---
9	7311.00	37.16	54.00	-16.84	26.20	10.96	Average	---	---
10	7311.00	49.58	74.00	-24.42	38.62	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	1



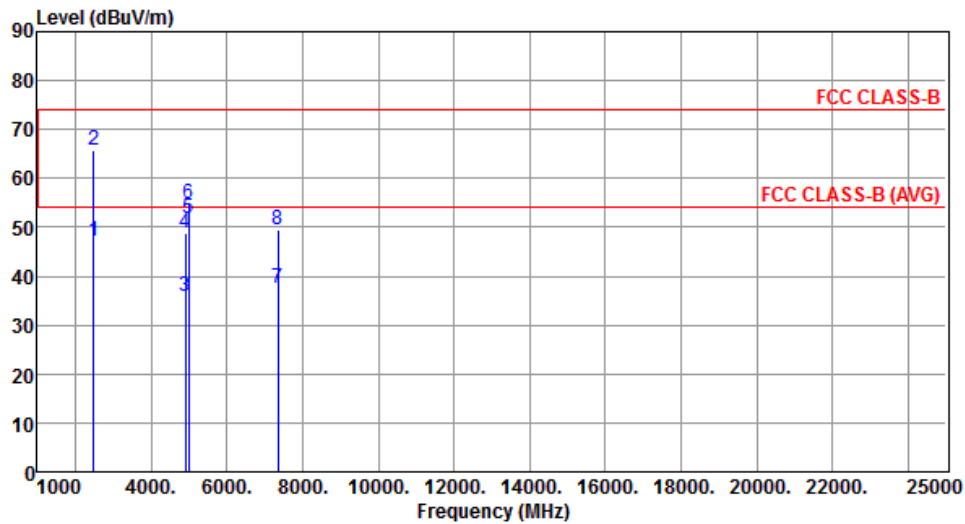
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	51.33	54.00	-2.67	52.22	-0.89	Average	---	---
2	2483.50	72.94	74.00	-1.06	73.83	-0.89	Peak	---	---
3	4904.00	37.02	54.00	-16.98	30.32	6.70	Average	---	---
4	4904.00	49.67	74.00	-24.33	42.97	6.70	Peak	---	---
5	5000.00	53.00	54.00	-1.00	46.70	6.30	Average	---	---
6	5000.00	55.94	74.00	-18.06	49.64	6.30	Peak	---	---
7	7356.00	37.24	54.00	-16.76	26.18	11.06	Average	---	---
8	7356.00	49.49	74.00	-24.51	38.43	11.06	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	47.09	54.00	-6.91	47.98	-0.89	Average	---	---
2	2483.50	65.62	74.00	-8.38	66.51	-0.89	Peak	---	---
3	4904.00	35.90	54.00	-18.10	29.20	6.70	Average	---	---
4	4904.00	48.97	74.00	-25.03	42.27	6.70	Peak	---	---
5	5000.00	51.93	54.00	-2.07	45.63	6.30	Average	---	---
6	5000.00	54.91	74.00	-19.09	48.61	6.30	Peak	---	---
7	7356.00	37.44	54.00	-16.56	26.38	11.06	Average	---	---
8	7356.00	49.63	74.00	-24.37	38.57	11.06	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

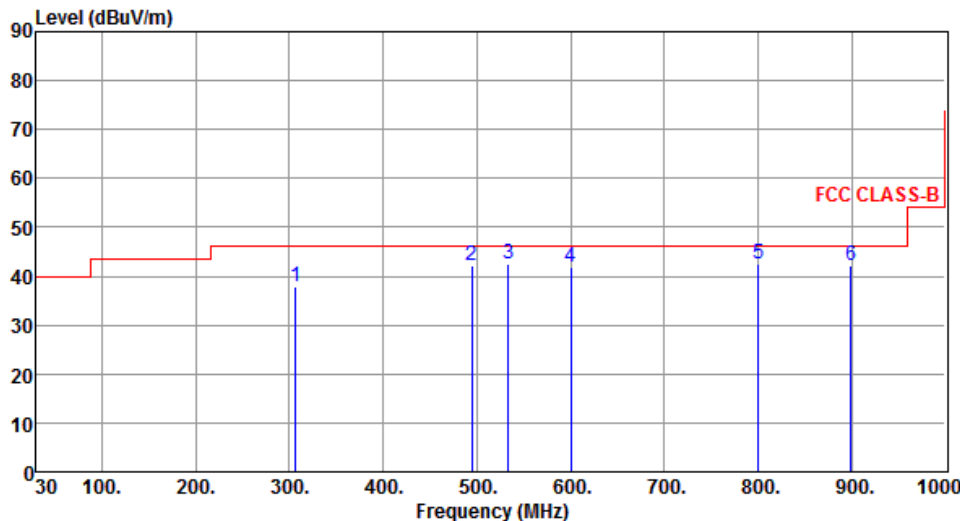
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Beamforming mode

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3

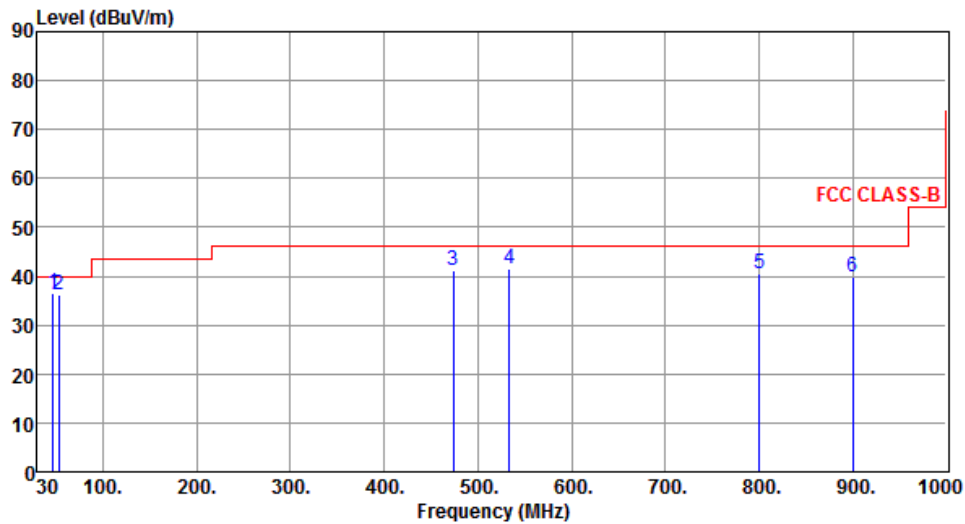


The graph displays the emission level in dBUV/m on the y-axis (0 to 90) against frequency in MHz on the x-axis (30 to 1000). A red line represents the FCC CLASS-B limit, which is 40 dBUV/m from 30 to 100 MHz, 45 dBUV/m from 100 to 300 MHz, and 55 dBUV/m from 300 to 1000 MHz. Six vertical blue lines indicate measured emission peaks at 306.24, 494.53, 533.27, 600.06, 800.16, and 899.12 MHz. The measured levels are 37.94, 42.20, 42.55, 41.81, 42.54, and 42.20 dBUV/m respectively.

	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	306.24	37.94	46.00	-8.06	50.43	-12.49	Peak	---	---
2	494.53	42.20	46.00	-3.80	49.97	-7.77	QP	---	---
3	533.27	42.55	46.00	-3.45	49.81	-7.26	QP	---	---
4	600.06	41.81	46.00	-4.19	47.53	-5.72	Peak	---	---
5	800.16	42.54	46.00	-3.46	45.10	-2.56	Peak	---	---
6	899.12	42.20	46.00	-3.80	42.88	-0.68	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.52	36.57	40.00	-3.43	49.43	-12.86	QP	---	---
2	53.21	36.03	40.00	-3.97	49.42	-13.39	QP	---	---
3	473.56	41.28	46.00	-4.72	49.52	-8.24	Peak	---	---
4	533.31	41.47	46.00	-4.53	48.73	-7.26	Peak	---	---
5	800.18	40.54	46.00	-5.46	43.10	-2.56	Peak	---	---
6	899.93	39.75	46.00	-6.25	40.42	-0.67	Peak	---	---

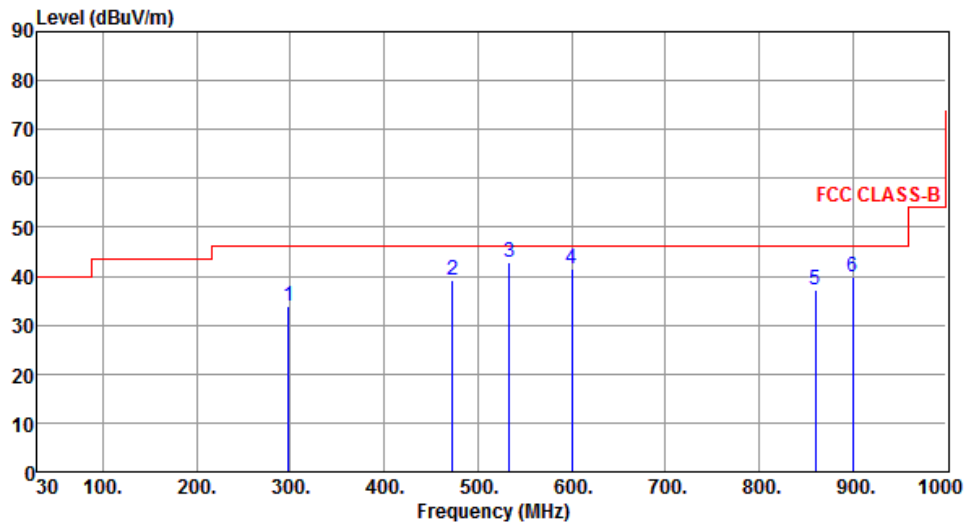
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	297.86	34.02	46.00	-11.98	46.76	-12.74	Peak	---	---
2	473.24	39.28	46.00	-6.72	47.52	-8.24	Peak	---	---
3	533.28	42.89	46.00	-3.11	50.15	-7.26	QP	---	---
4	600.16	41.59	46.00	-4.41	47.31	-5.72	Peak	---	---
5	860.42	37.05	46.00	-8.95	38.56	-1.51	Peak	---	---
6	899.96	39.78	46.00	-6.22	40.45	-0.67	Peak	---	---

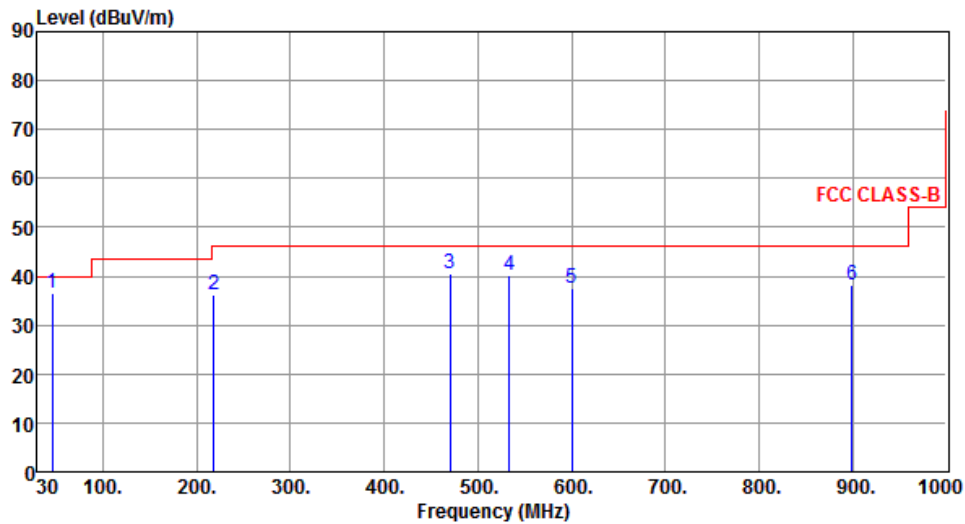
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	4



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.31	36.67	40.00	-3.33	49.52	-12.85	QP	---	---
2	218.43	36.19	46.00	-9.81	52.24	-16.05	Peak	---	---
3	470.53	40.62	46.00	-5.38	48.93	-8.31	Peak	---	---
4	533.27	40.16	46.00	-5.84	47.42	-7.26	Peak	---	---
5	600.25	37.59	46.00	-8.41	43.31	-5.72	Peak	---	---
6	899.34	38.25	46.00	-7.75	38.93	-0.68	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

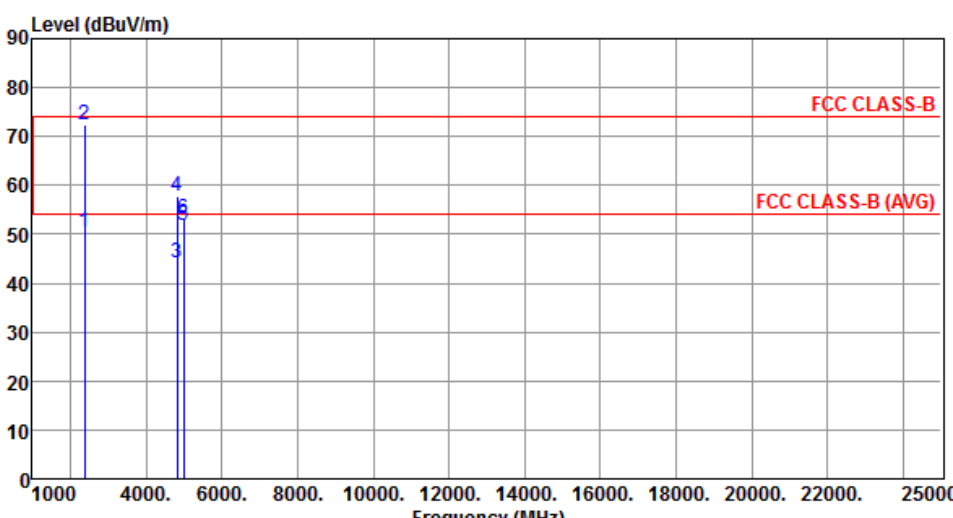
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

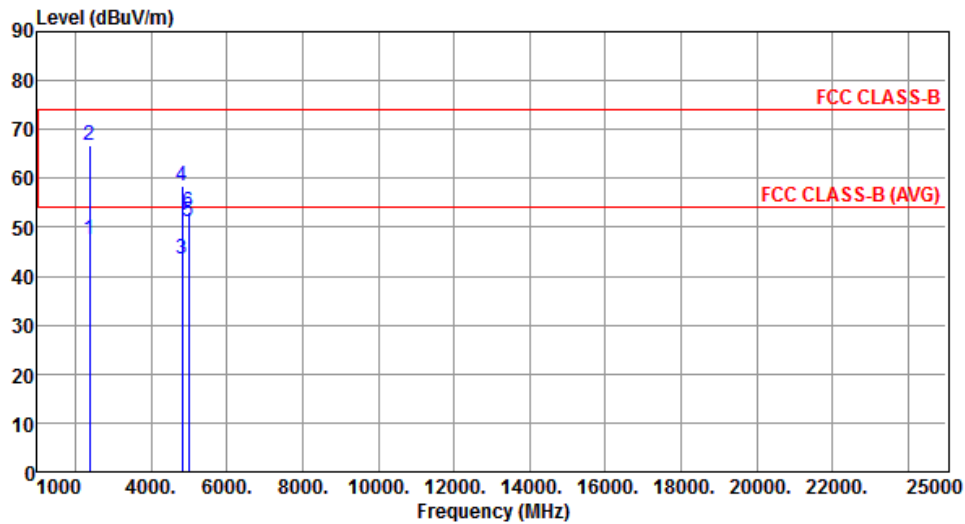
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.35	54.00	-3.65	51.57	-1.22	Average	---	---
2	2390.00	72.50	74.00	-1.50	73.72	-1.22	Peak	---	---
3	4824.00	44.22	54.00	-9.78	37.21	7.01	Average	---	---
4	4824.00	57.68	74.00	-16.32	50.67	7.01	Peak	---	---
5	5000.00	51.72	54.00	-2.28	45.42	6.30	Average	---	---
6	5000.00	53.21	74.00	-20.79	46.91	6.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	3



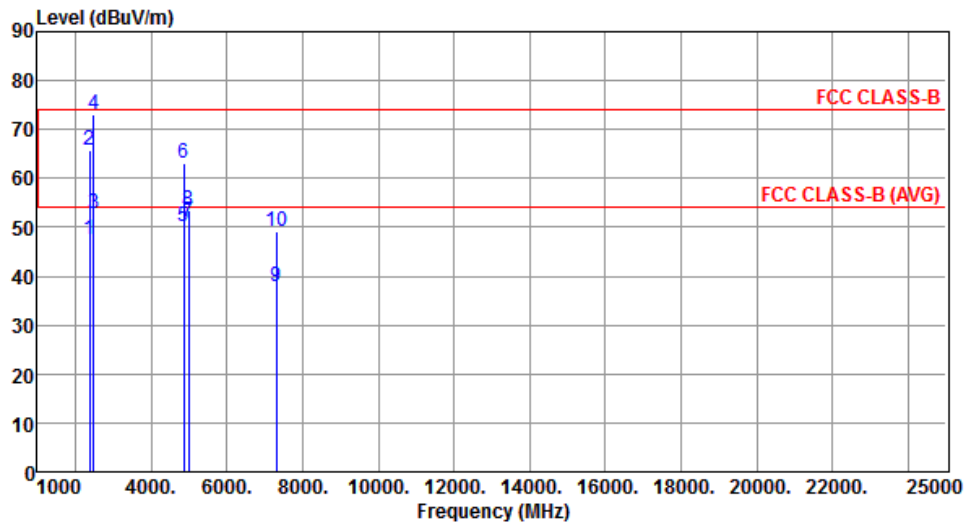
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.47	54.00	-6.53	48.69	-1.22	Average	---	---
2	2390.00	66.74	74.00	-7.26	67.96	-1.22	Peak	---	---
3	4824.00	43.55	54.00	-10.45	36.54	7.01	Average	---	---
4	4824.00	58.48	74.00	-15.52	51.47	7.01	Peak	---	---
5	5000.00	51.06	54.00	-2.94	44.76	6.30	Average	---	---
6	5000.00	53.03	74.00	-20.97	46.73	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



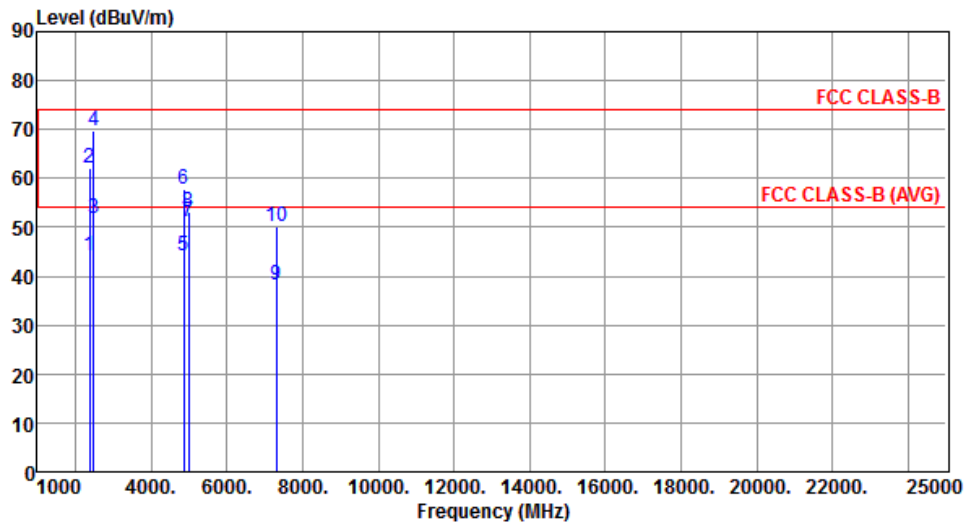
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.39	54.00	-6.61	48.61	-1.22	Average	---	---
2	2390.00	65.81	74.00	-8.19	67.03	-1.22	Peak	---	---
3	2483.50	52.70	54.00	-1.30	53.59	-0.89	Average	---	---
4	2483.50	72.96	74.00	-1.04	73.85	-0.89	Peak	---	---
5	4874.00	50.21	54.00	-3.79	43.40	6.81	Average	---	---
6	4874.00	63.13	74.00	-10.87	56.32	6.81	Peak	---	---
7	5000.00	51.08	54.00	-2.92	44.78	6.30	Average	---	---
8	5000.00	53.40	74.00	-20.60	47.10	6.30	Peak	---	---
9	7311.00	37.86	54.00	-16.14	26.90	10.96	Average	---	---
10	7311.00	49.29	74.00	-24.71	38.33	10.96	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



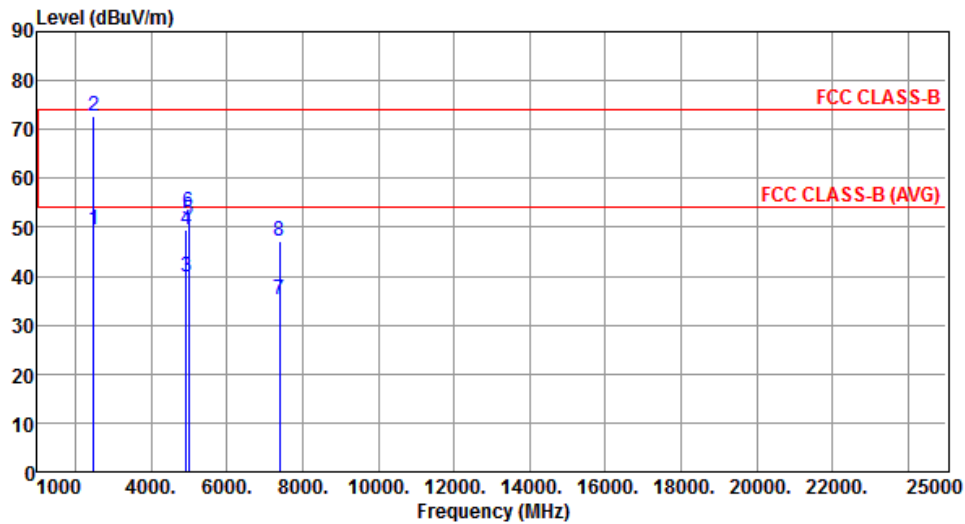
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	44.09	54.00	-9.91	45.31	-1.22	Average	---	---
2	2390.00	62.03	74.00	-11.97	63.25	-1.22	Peak	---	---
3	2483.50	51.76	54.00	-2.24	52.65	-0.89	Average	---	---
4	2483.50	69.63	74.00	-4.37	70.52	-0.89	Peak	---	---
5	4874.00	44.04	54.00	-9.96	37.23	6.81	Average	---	---
6	4874.00	57.81	74.00	-16.19	51.00	6.81	Peak	---	---
7	5000.00	51.04	54.00	-2.96	44.74	6.30	Average	---	---
8	5000.00	53.17	74.00	-20.83	46.87	6.30	Peak	---	---
9	7311.00	38.03	54.00	-15.97	27.07	10.96	Average	---	---
10	7311.00	50.11	74.00	-23.89	39.15	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	3



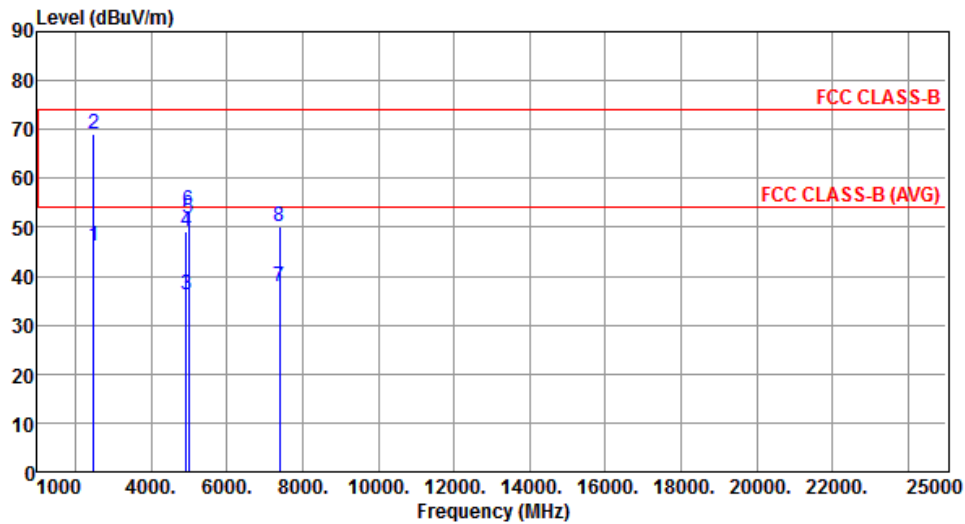
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	49.60	54.00	-4.40	50.49	-0.89	Average	---	---
2	2483.50	72.74	74.00	-1.26	73.63	-0.89	Peak	---	---
3	4924.00	39.81	54.00	-14.19	33.21	6.60	Average	---	---
4	4924.00	49.40	74.00	-24.60	42.80	6.60	Peak	---	---
5	5000.00	51.46	54.00	-2.54	45.16	6.30	Average	---	---
6	5000.00	53.21	74.00	-20.79	46.91	6.30	Peak	---	---
7	7386.00	35.23	54.00	-18.77	24.11	11.12	Average	---	---
8	7386.00	47.08	74.00	-26.92	35.96	11.12	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	46.10	54.00	-7.90	46.99	-0.89	Average	---	---
2	2483.50	68.97	74.00	-5.03	69.86	-0.89	Peak	---	---
3	4924.00	36.21	54.00	-17.79	29.61	6.60	Average	---	---
4	4924.00	49.21	74.00	-24.79	42.61	6.60	Peak	---	---
5	5000.00	51.88	54.00	-2.12	45.58	6.30	Average	---	---
6	5000.00	53.31	74.00	-20.69	47.01	6.30	Peak	---	---
7	7386.00	37.72	54.00	-16.28	26.60	11.12	Average	---	---
8	7386.00	50.19	74.00	-23.81	39.07	11.12	Peak	---	---

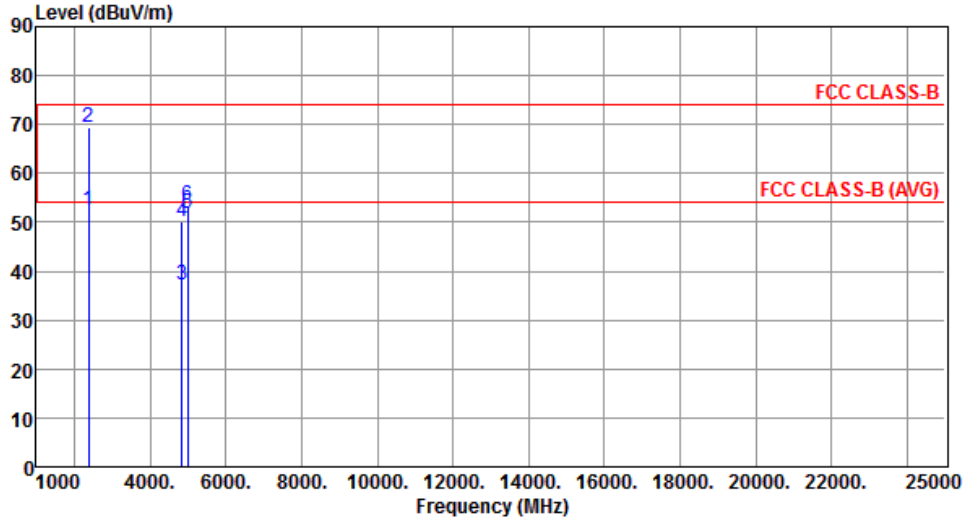
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

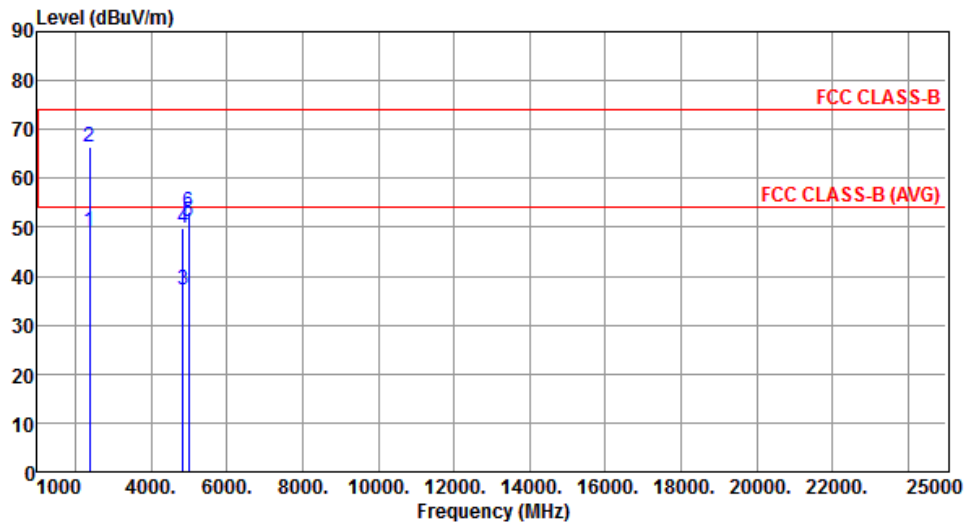
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	52.42	54.00	-1.58	53.64	-1.22	Average	---	---
2	2390.00	69.38	74.00	-4.62	70.60	-1.22	Peak	---	---
3	4844.00	37.36	54.00	-16.64	30.42	6.94	Average	---	---
4	4844.00	50.11	74.00	-23.89	43.17	6.94	Peak	---	---
5	5000.00	51.84	54.00	-2.16	45.54	6.30	Average	---	---
6	5000.00	53.37	74.00	-20.63	47.07	6.30	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	3



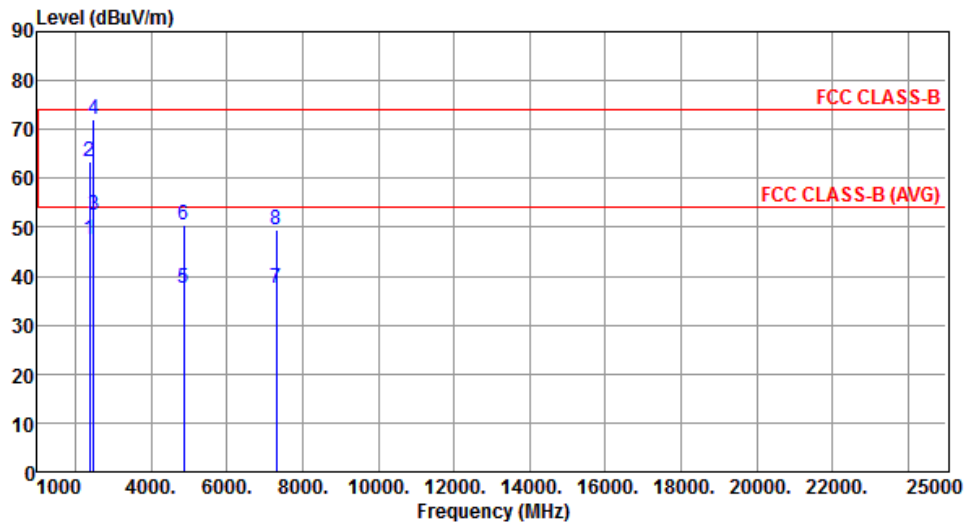
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.11	54.00	-4.89	50.33	-1.22	Average	---	---
2	2390.00	66.45	74.00	-7.55	67.67	-1.22	Peak	---	---
3	4844.00	37.15	54.00	-16.85	30.21	6.94	Average	---	---
4	4844.00	49.88	74.00	-24.12	42.94	6.94	Peak	---	---
5	5000.00	51.24	54.00	-2.76	44.94	6.30	Average	---	---
6	5000.00	53.22	74.00	-20.78	46.92	6.30	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	3



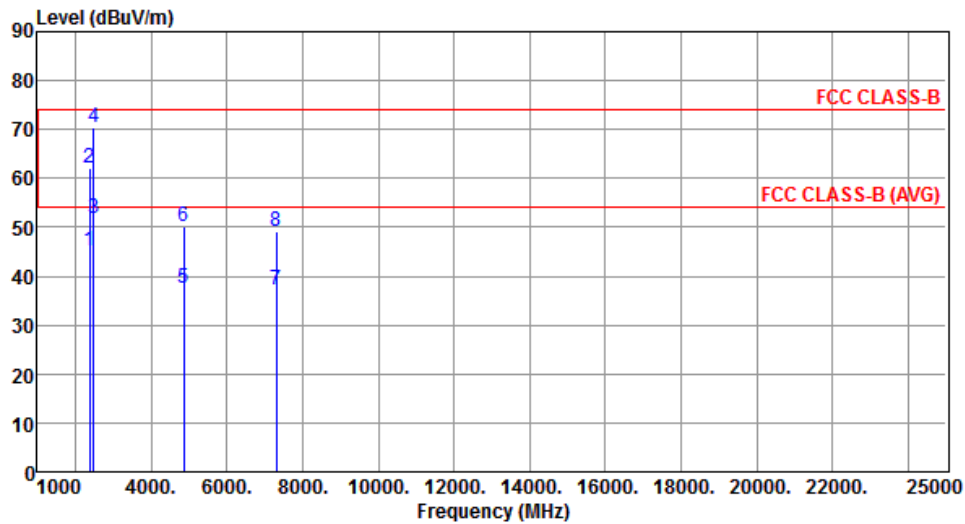
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	47.48	54.00	-6.52	48.70	-1.22	Average	---	---
2	2390.00	63.58	74.00	-10.42	64.80	-1.22	Peak	---	---
3	2483.50	52.40	54.00	-1.60	53.29	-0.89	Average	---	---
4	2483.50	72.11	74.00	-1.89	73.00	-0.89	Peak	---	---
5	4874.00	37.55	54.00	-16.45	30.74	6.81	Average	---	---
6	4874.00	50.43	74.00	-23.57	43.62	6.81	Peak	---	---
7	7311.00	37.63	54.00	-16.37	26.67	10.96	Average	---	---
8	7311.00	49.51	74.00	-24.49	38.55	10.96	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	3



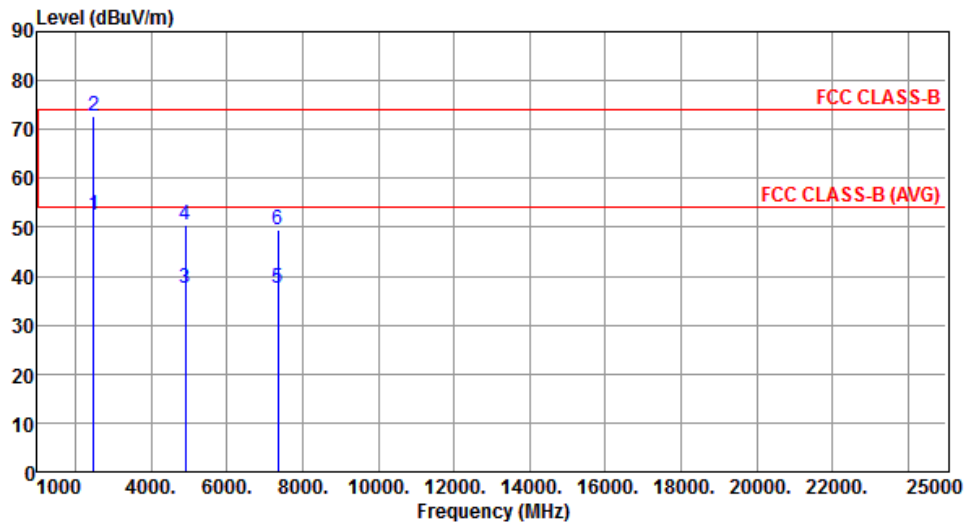
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	45.18	54.00	-8.82	46.40	-1.22	Average	---	---
2	2390.00	62.21	74.00	-11.79	63.43	-1.22	Peak	---	---
3	2483.50	51.92	54.00	-2.08	52.81	-0.89	Average	---	---
4	2483.50	70.57	74.00	-3.43	71.46	-0.89	Peak	---	---
5	4874.00	37.46	54.00	-16.54	30.65	6.81	Average	---	---
6	4874.00	50.02	74.00	-23.98	43.21	6.81	Peak	---	---
7	7311.00	37.24	54.00	-16.76	26.28	10.96	Average	---	---
8	7311.00	49.09	74.00	-24.91	38.13	10.96	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	3



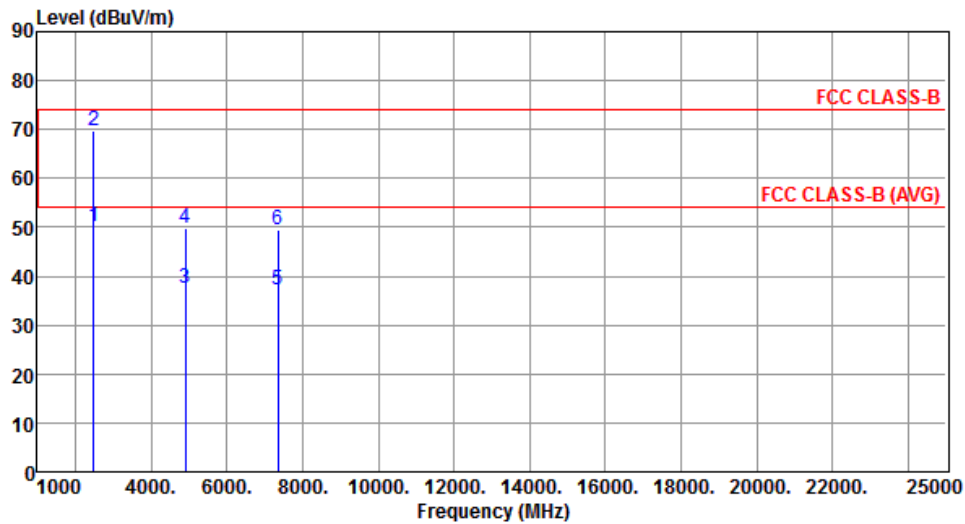
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.41	54.00	-1.59	53.30	-0.89	Average	---	---
2	2483.50	72.72	74.00	-1.28	73.61	-0.89	Peak	---	---
3	4904.00	37.58	54.00	-16.42	30.88	6.70	Average	---	---
4	4904.00	50.39	74.00	-23.61	43.69	6.70	Peak	---	---
5	7356.00	37.60	54.00	-16.40	26.54	11.06	Average	---	---
6	7356.00	49.48	74.00	-24.52	38.42	11.06	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	3



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.19	54.00	-3.81	51.08	-0.89	Average	---	---
2	2483.50	69.73	74.00	-4.27	70.62	-0.89	Peak	---	---
3	4904.00	37.39	54.00	-16.61	30.69	6.70	Average	---	---
4	4904.00	49.95	74.00	-24.05	43.25	6.70	Peak	---	---
5	7356.00	37.24	54.00	-16.76	26.18	11.06	Average	---	---
6	7356.00	49.52	74.00	-24.48	38.46	11.06	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

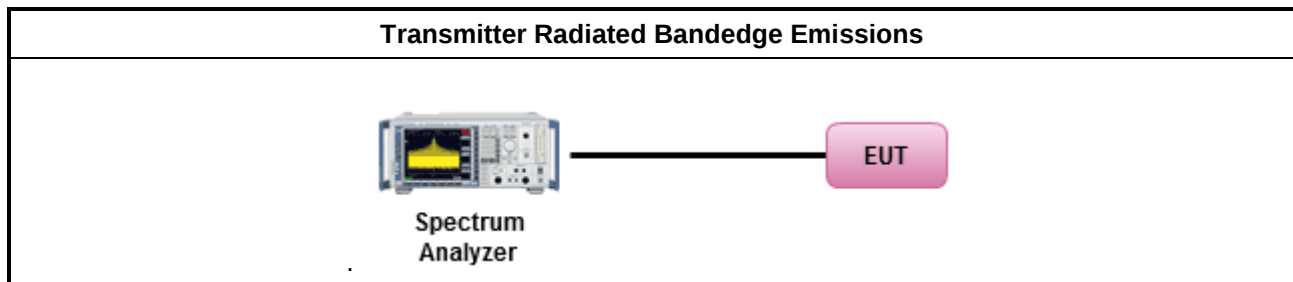
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.4 Test Setup



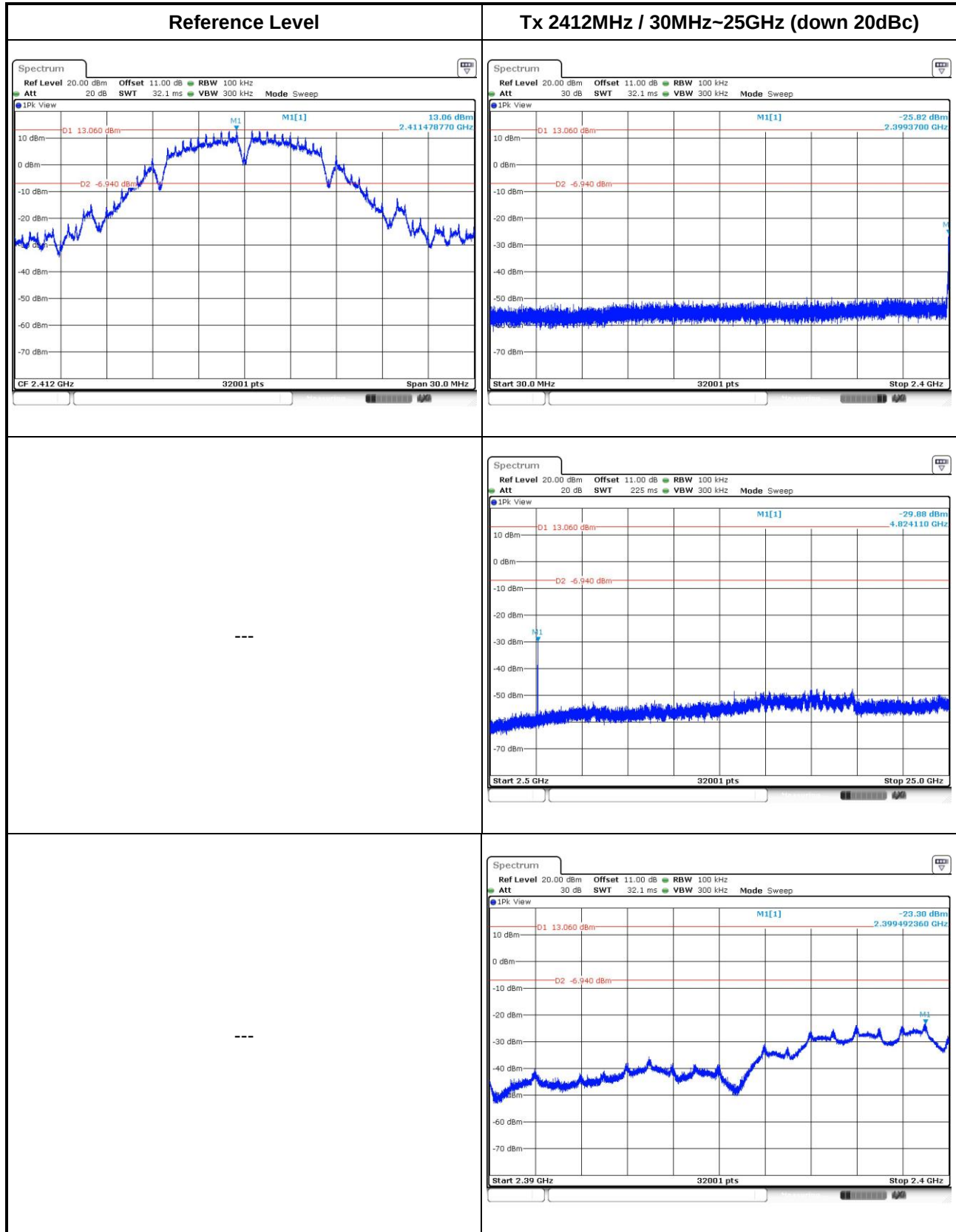
3.6.5 Test Result of Emissions in non-restricted frequency bands

This test item is performed on each TX output individually without summing or adding $10 \log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

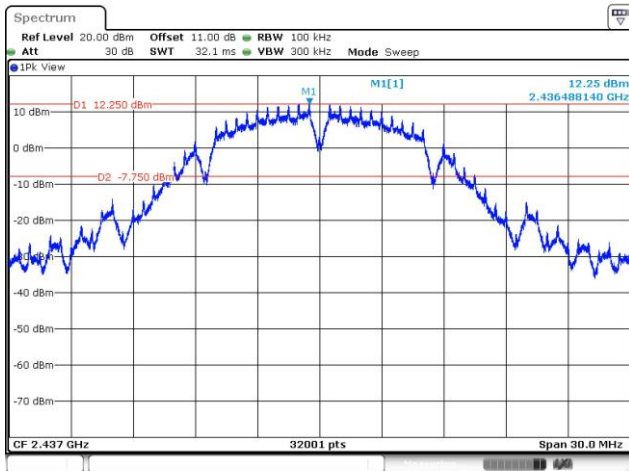
3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands

Non-beamforming mode

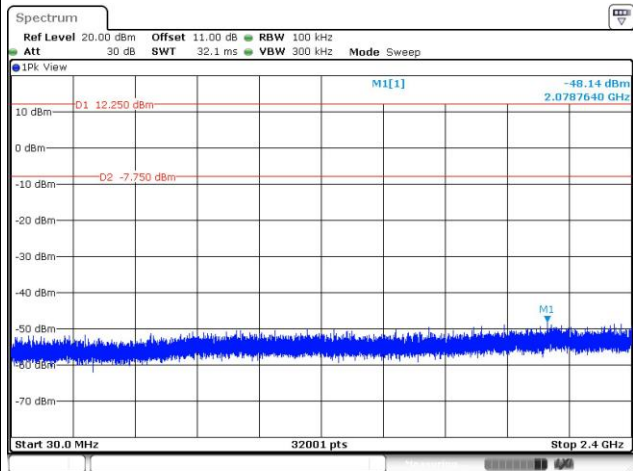
802.11b

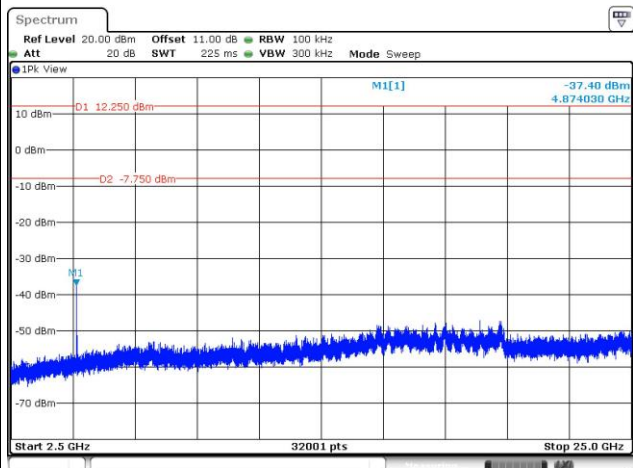


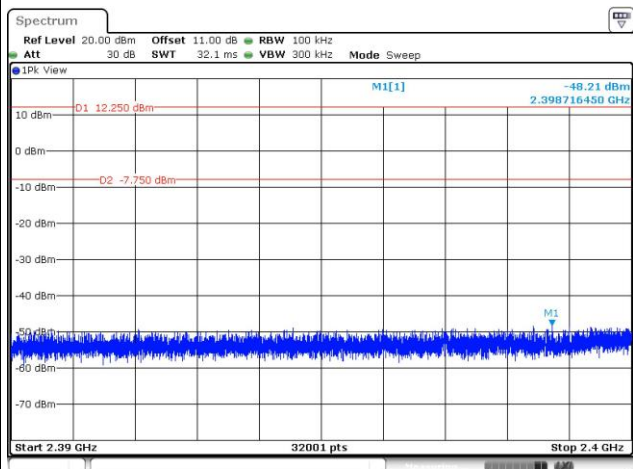
Reference Level



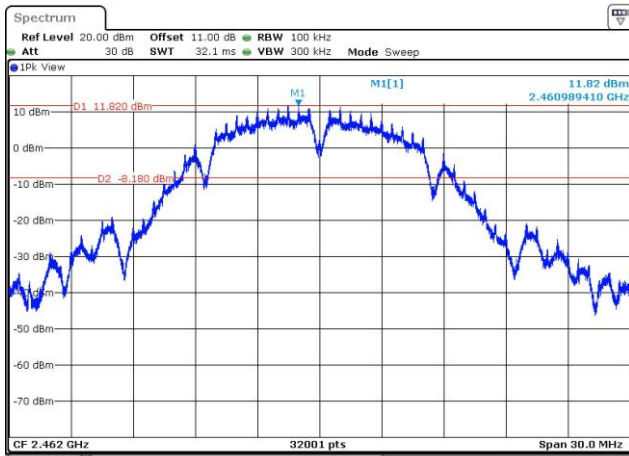
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



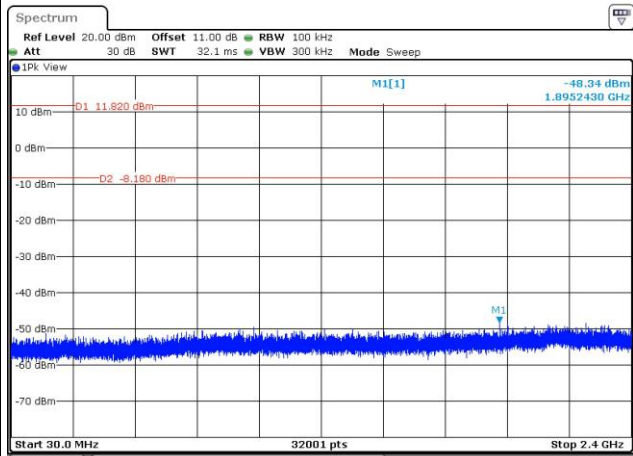


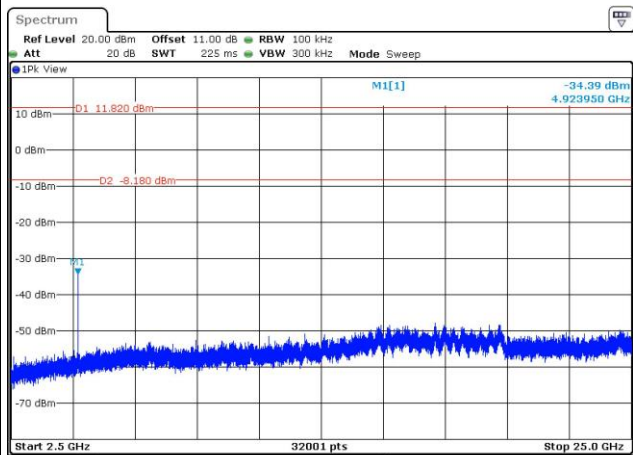


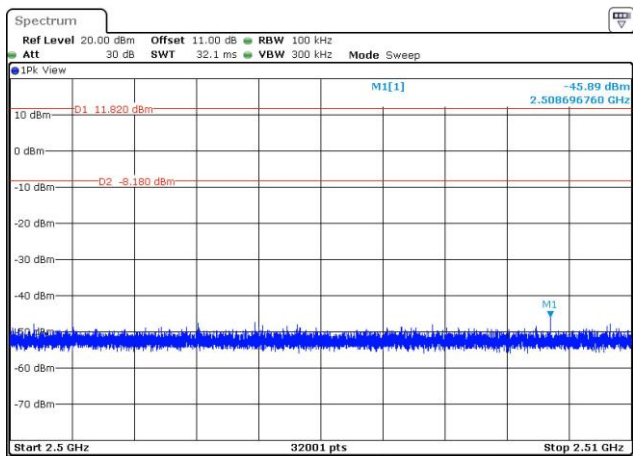
Reference Level



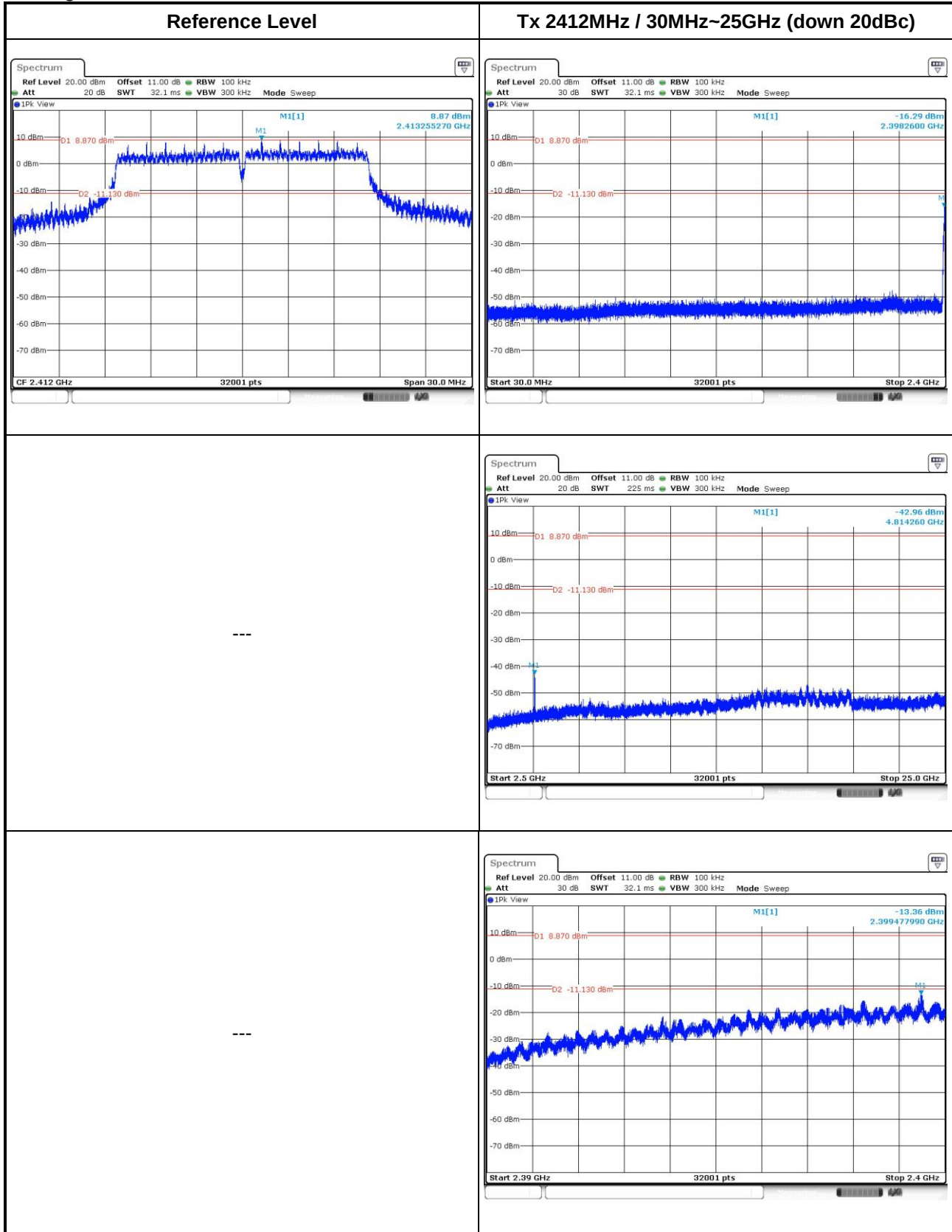
Tx 2462MHz / 30MHz~25GHz (down 20dBc)

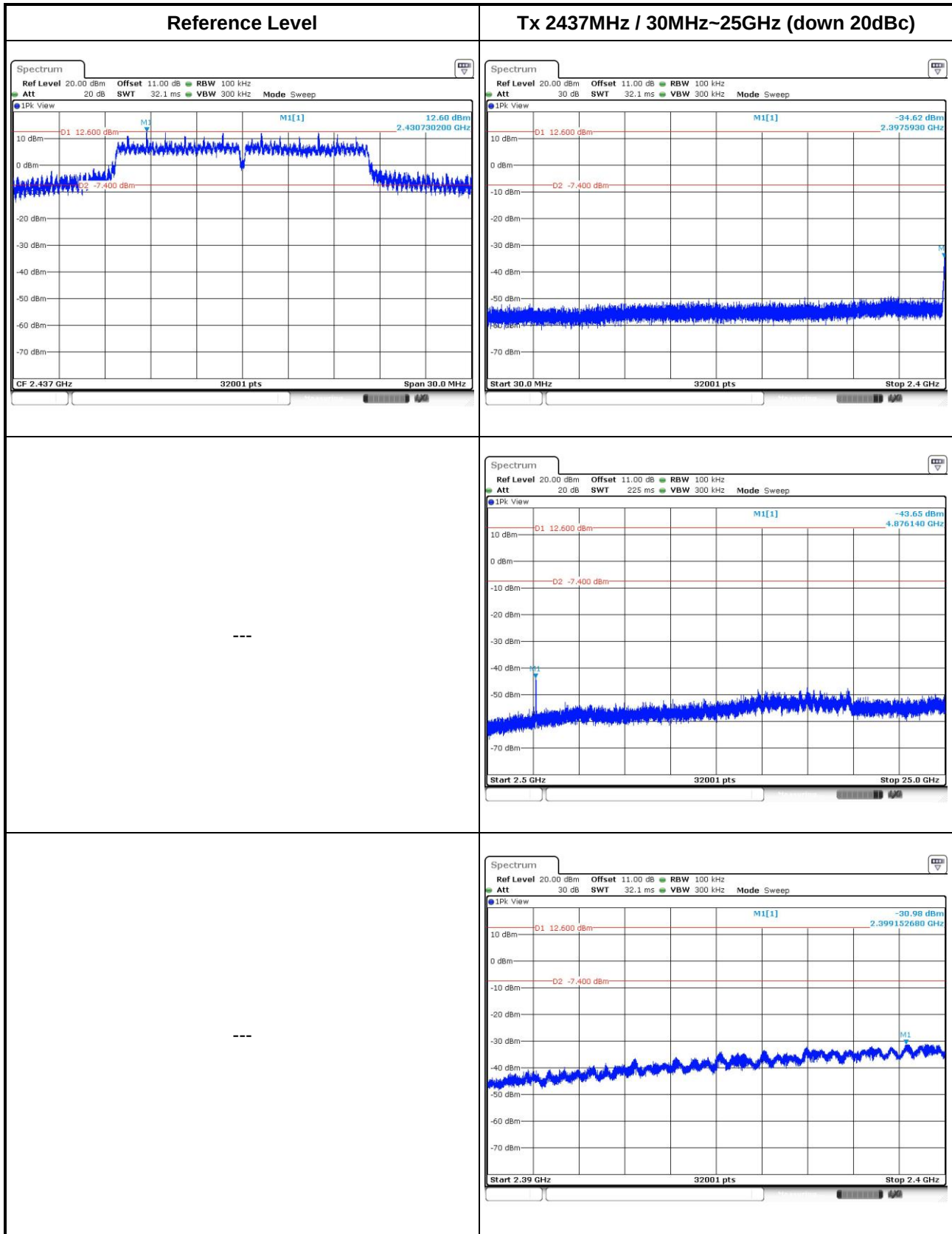




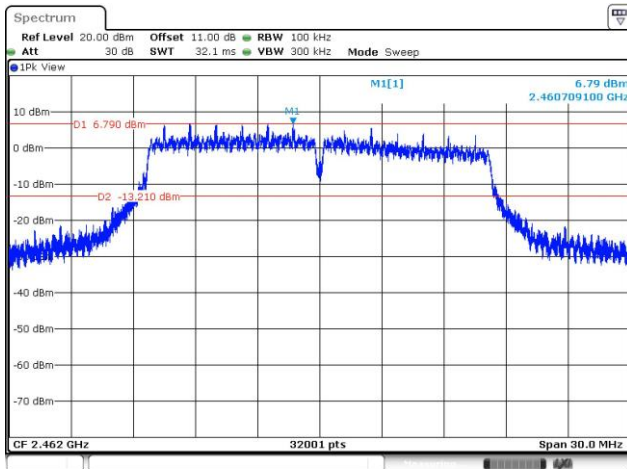


802.11g

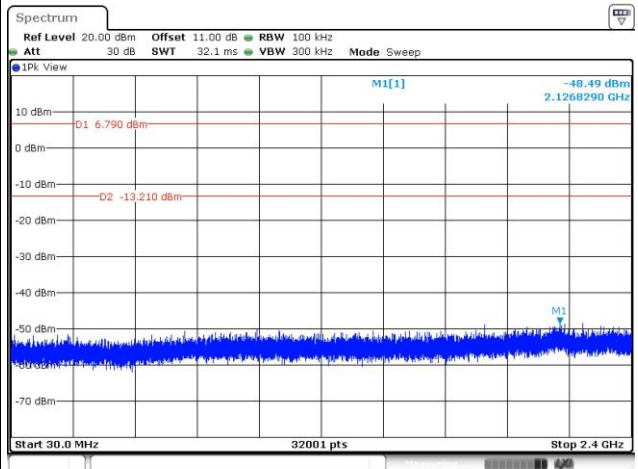


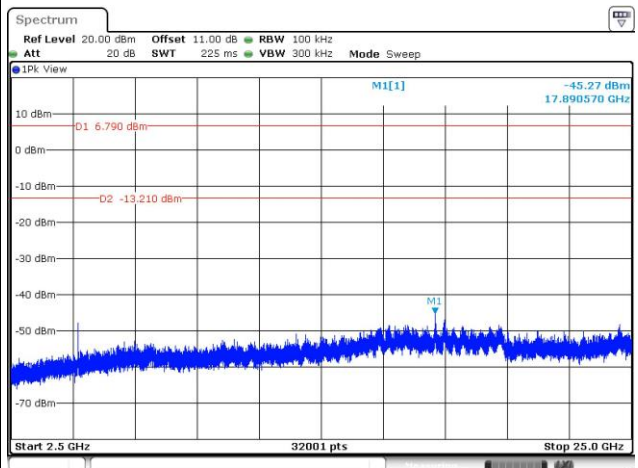


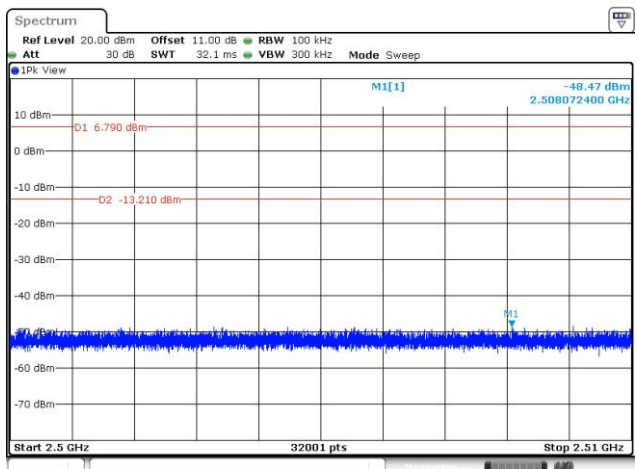
Reference Level



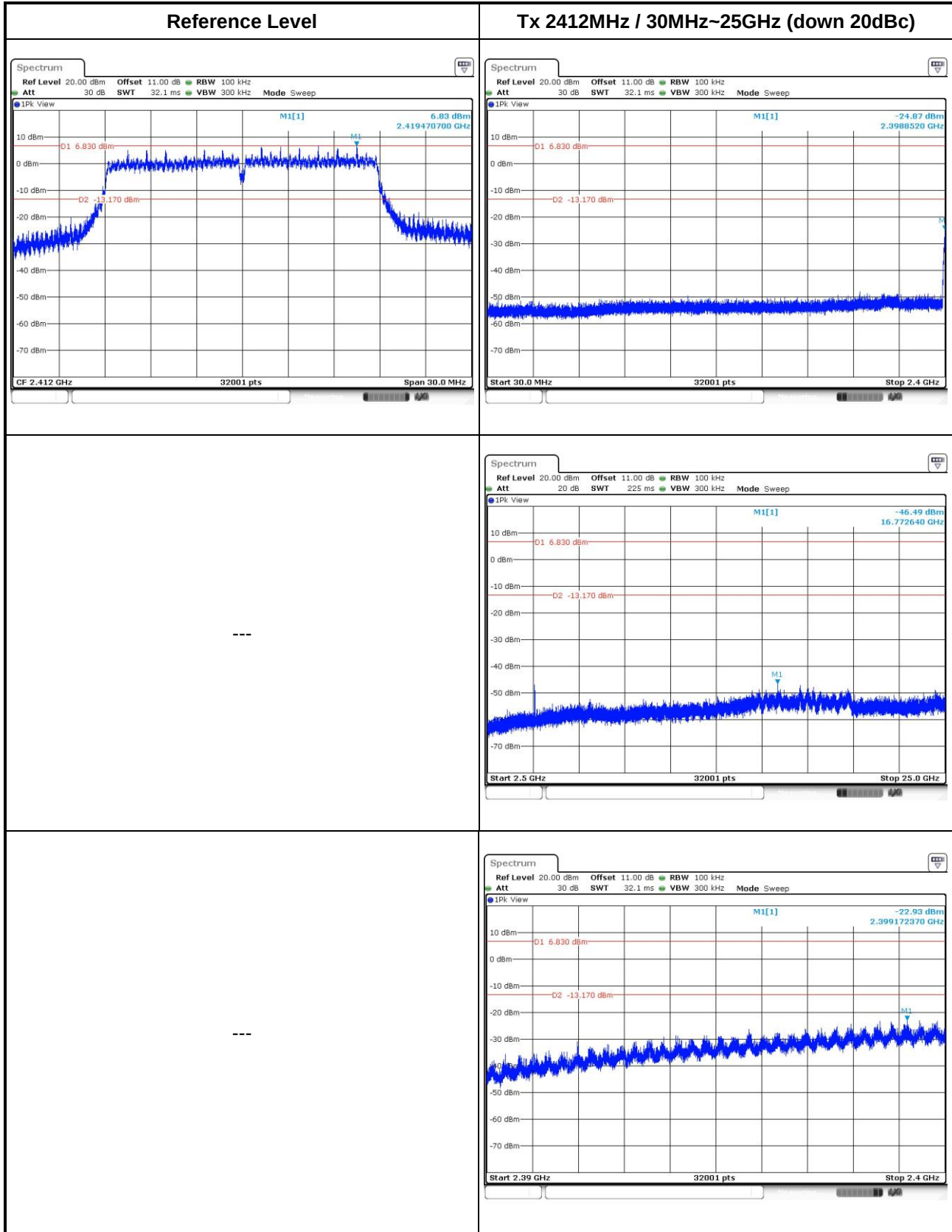
Tx 2462MHz / 30MHz~25GHz (down 20dBc)

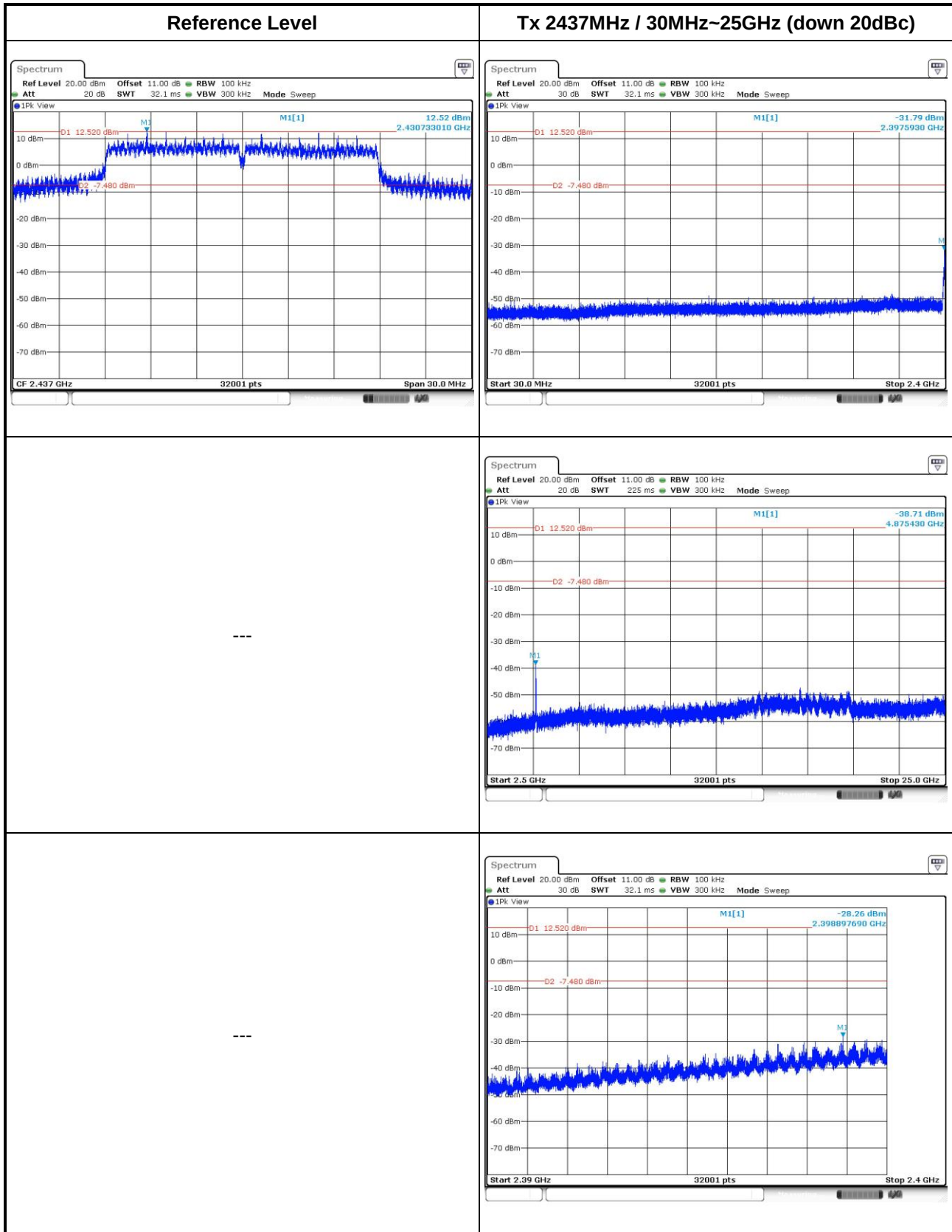




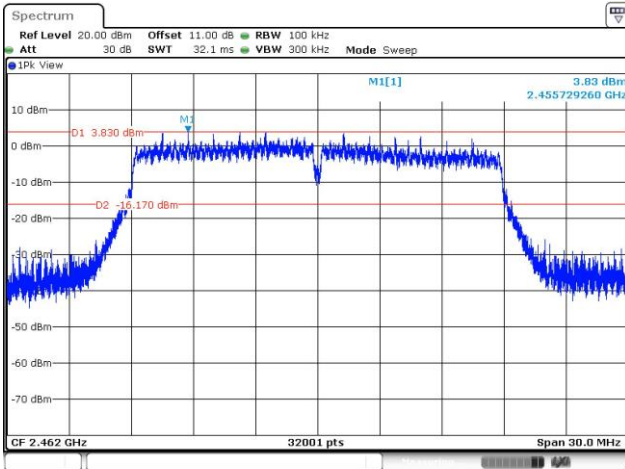


802.11n HT20

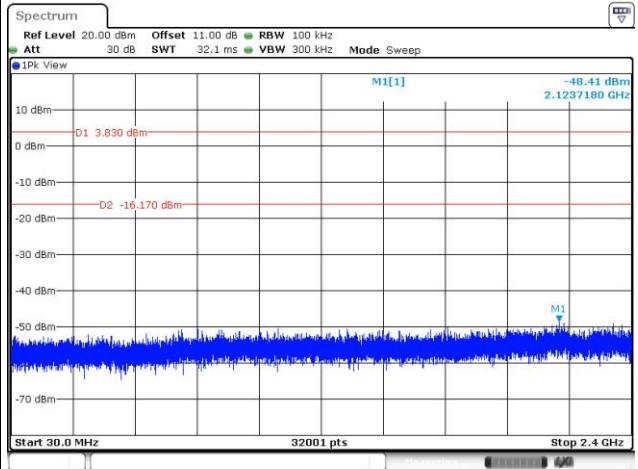


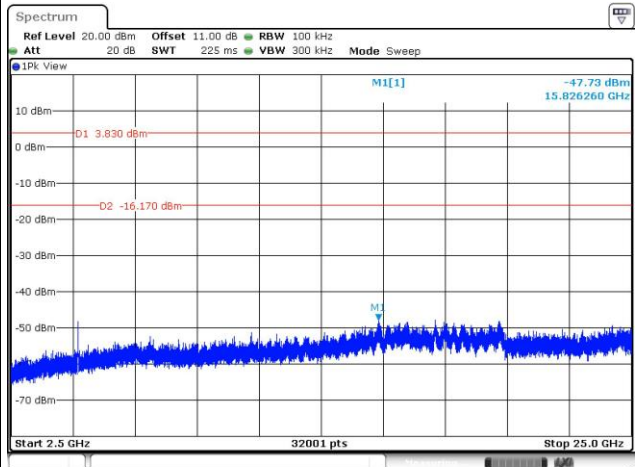


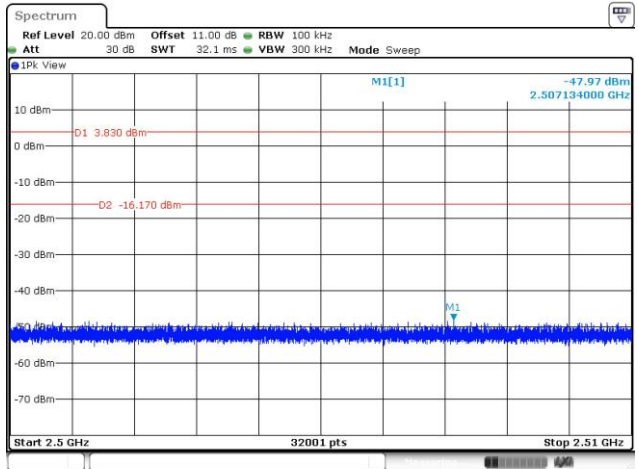
Reference Level



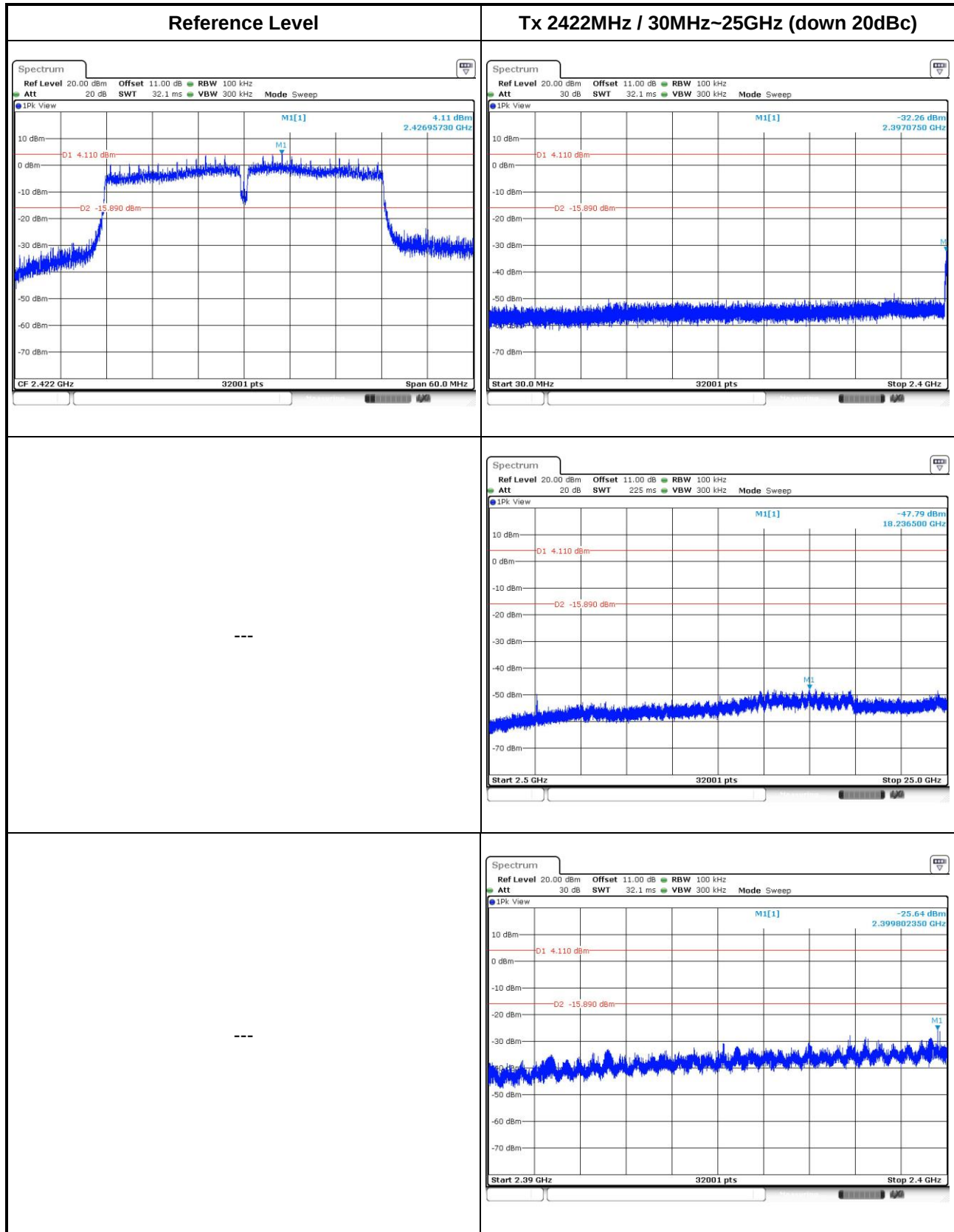
Tx 2462MHz / 30MHz~25GHz (down 20dBc)



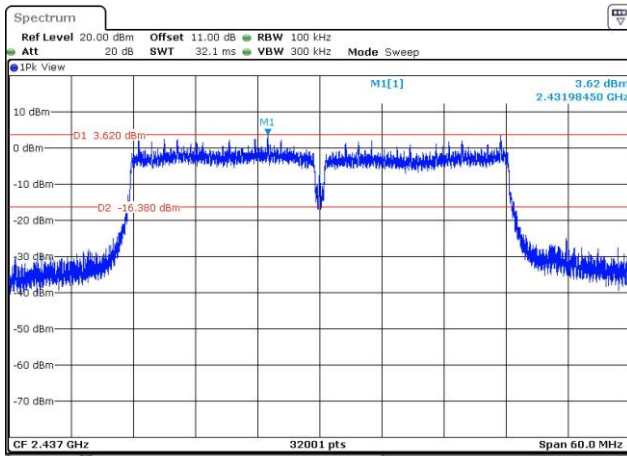




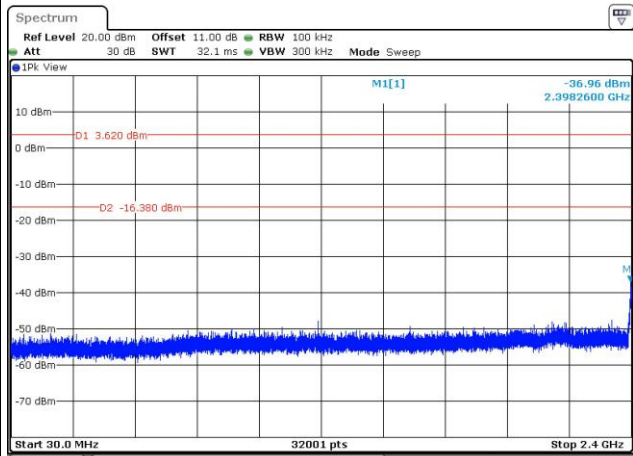
802.11n HT40

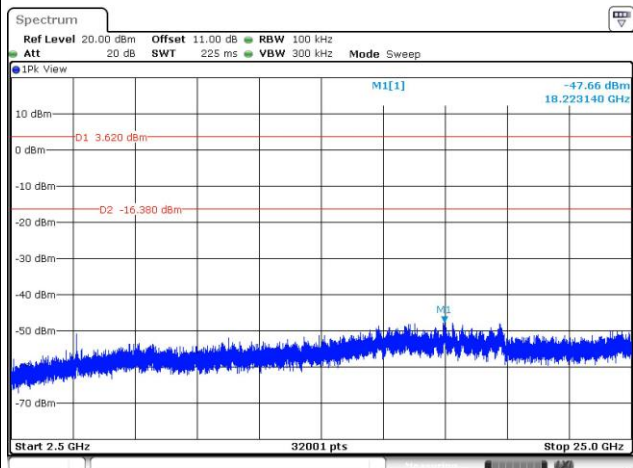


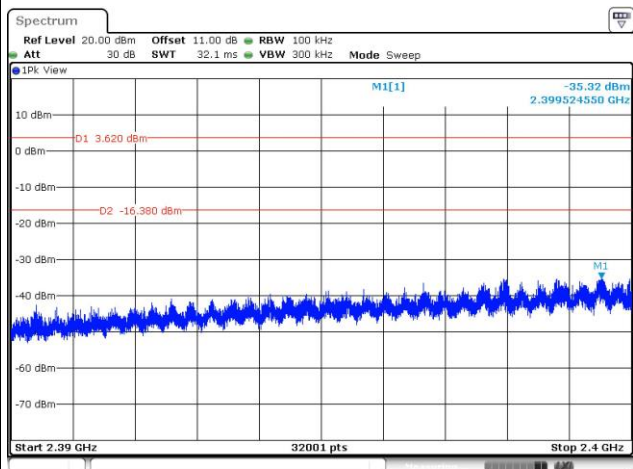
Reference Level



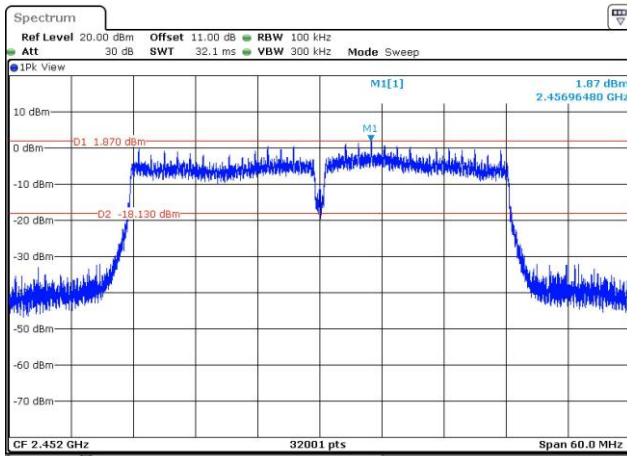
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



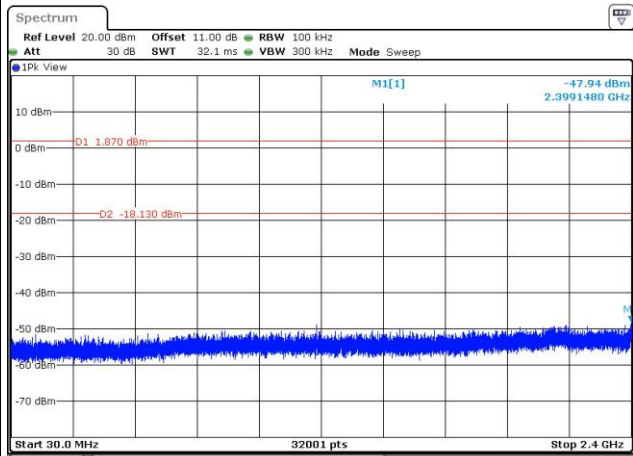


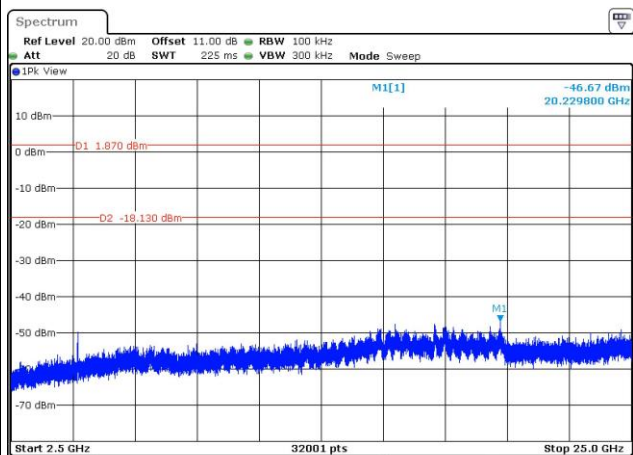


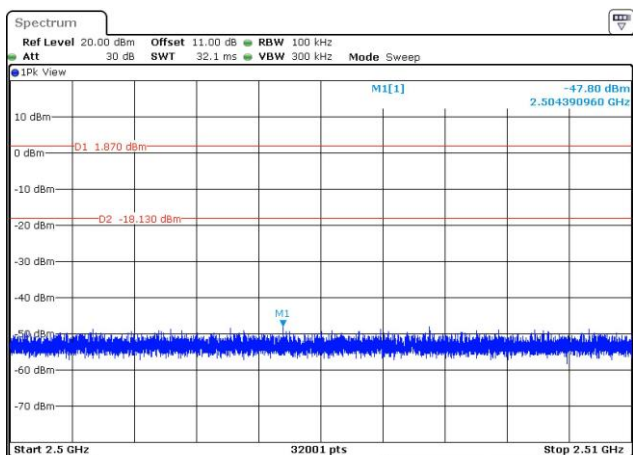
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)

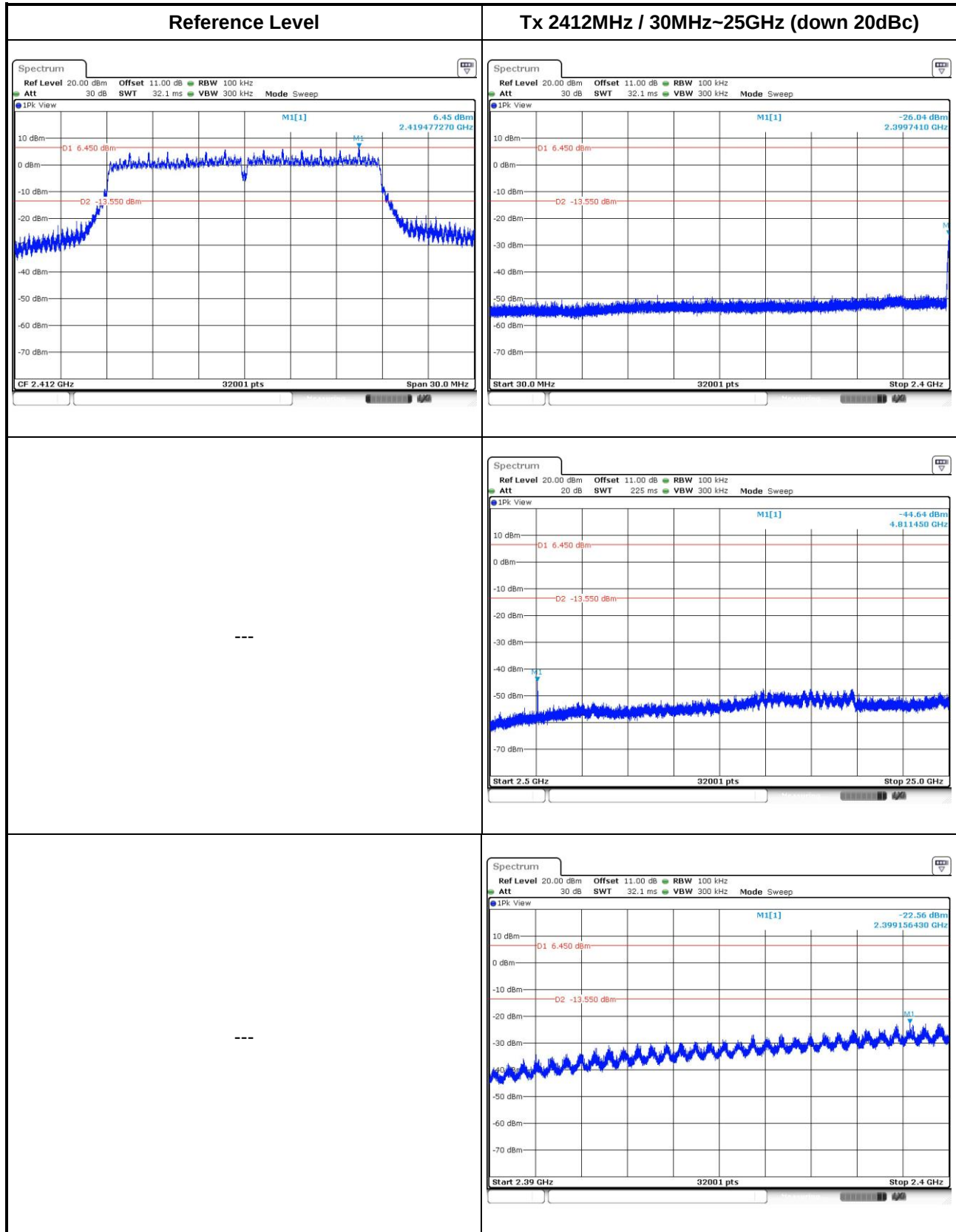




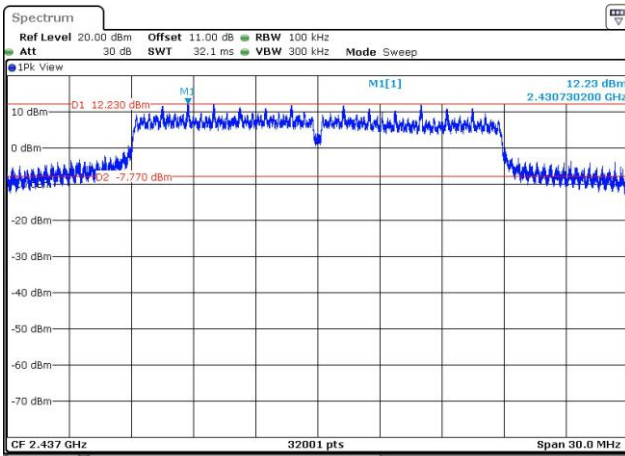


Beamforming mode

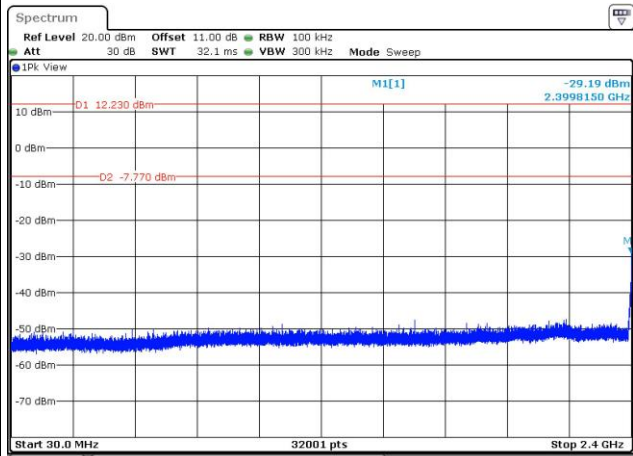
802.11n HT20

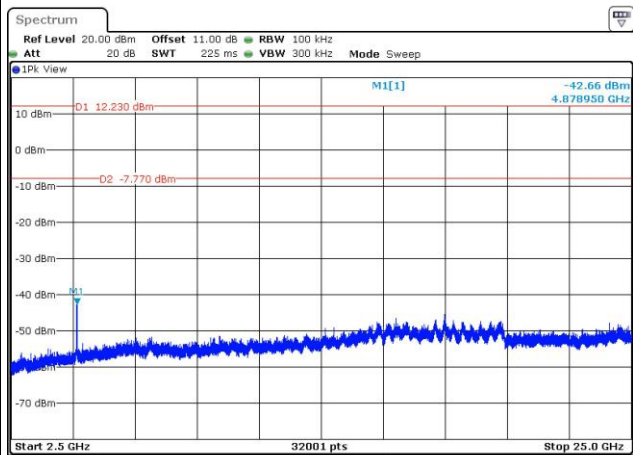


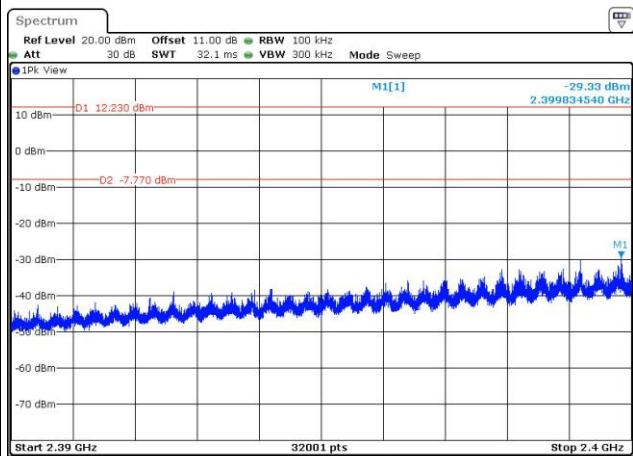
Reference Level



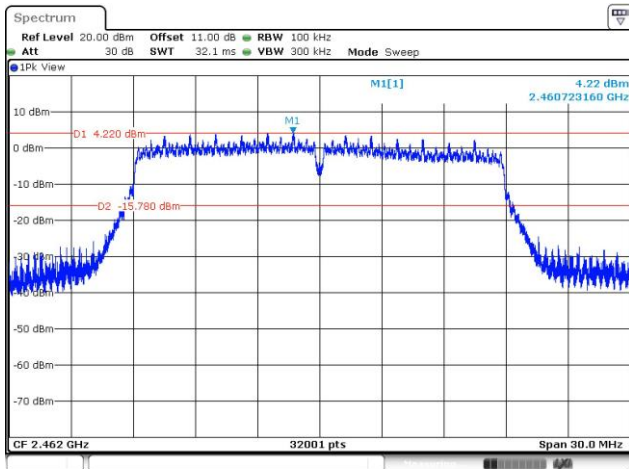
Tx 2437MHz / 30MHz~25GHz (down 20dBc)



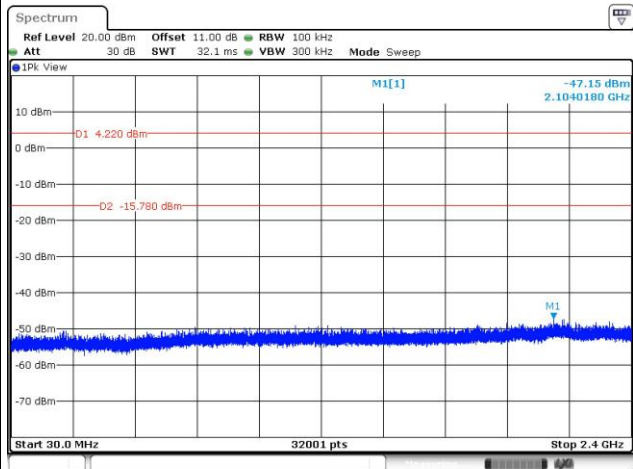


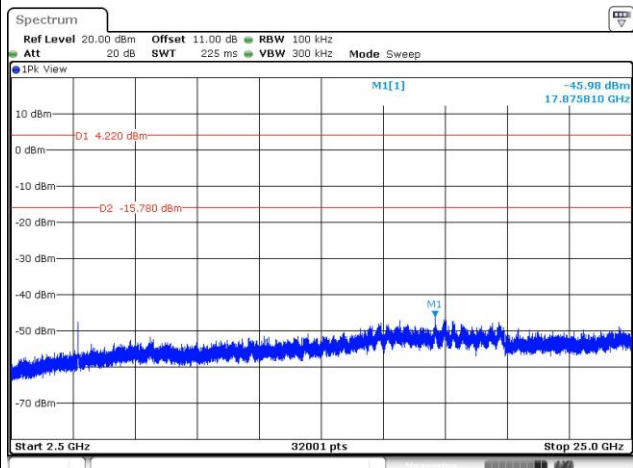


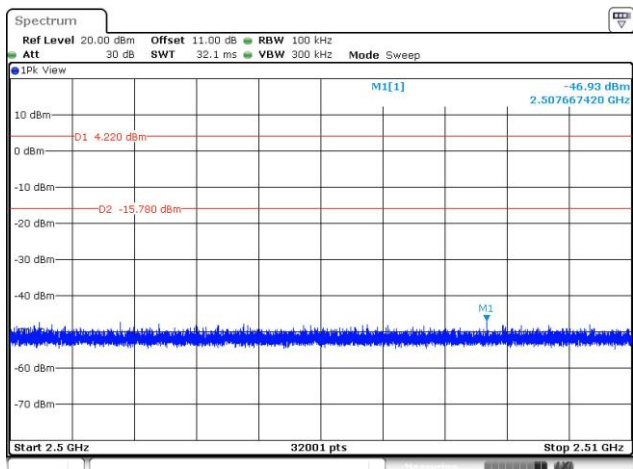
Reference Level



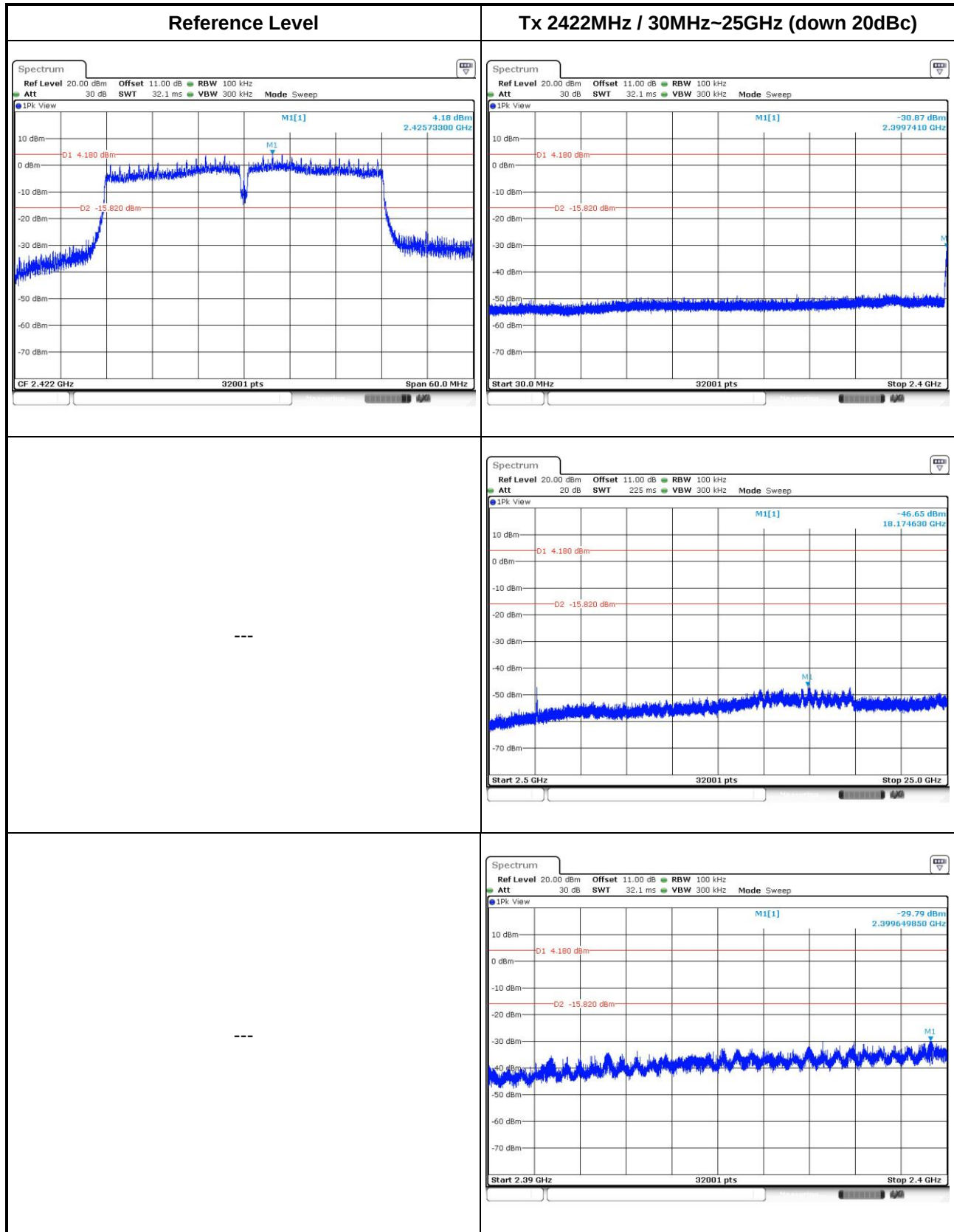
Tx 2462MHz / 30MHz~25GHz (down 20dBc)

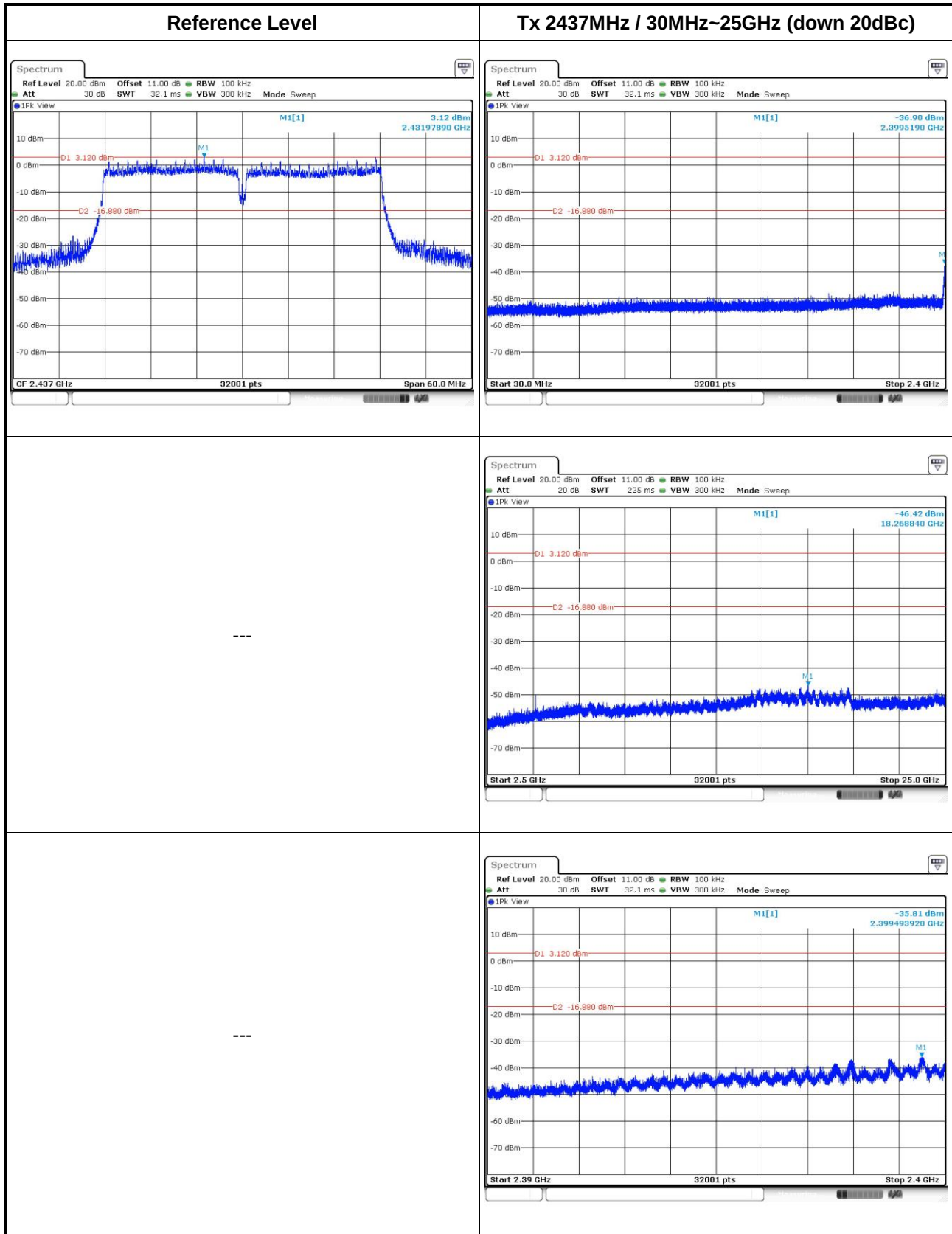




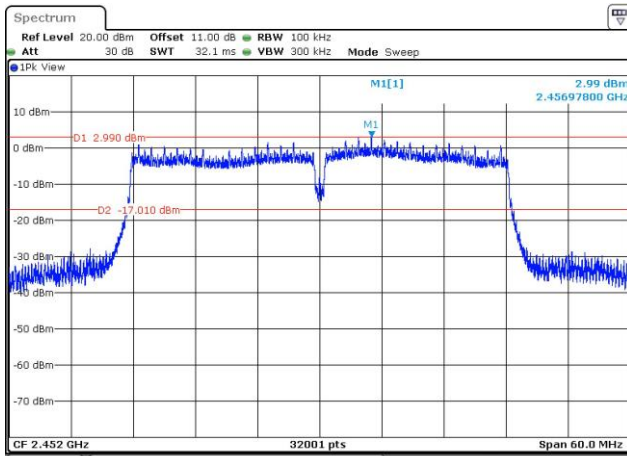


802.11n HT40

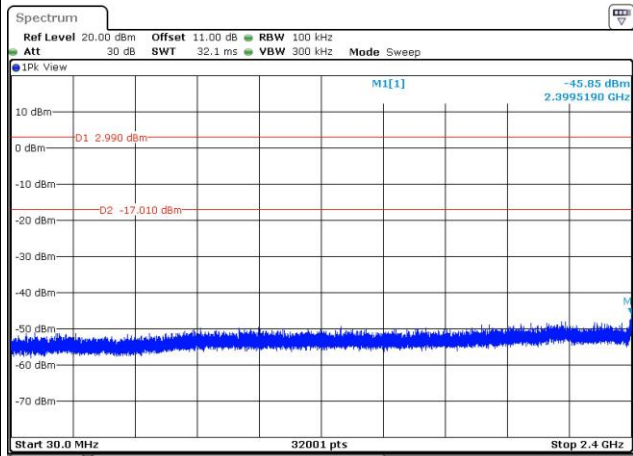


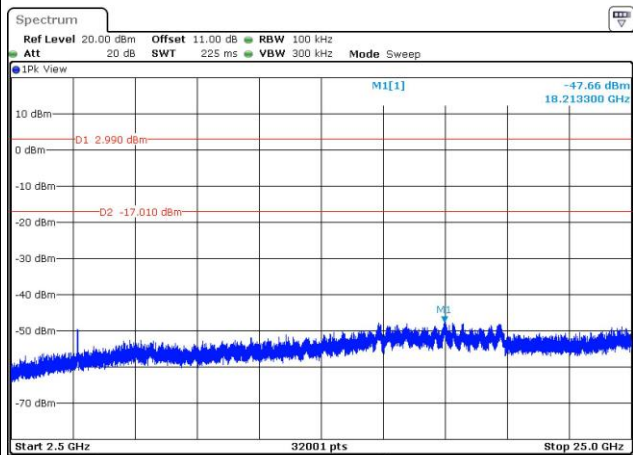


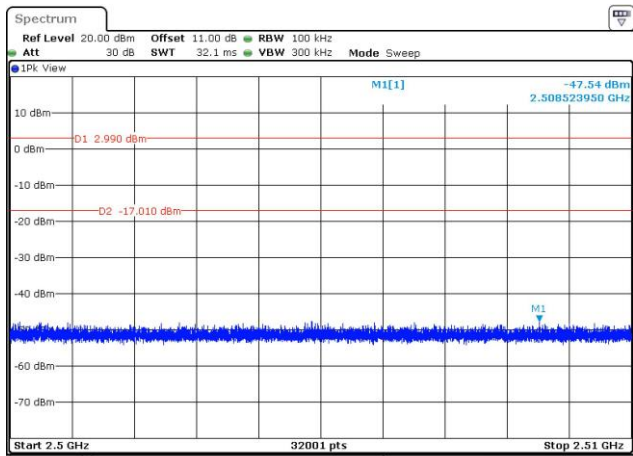
Reference Level



Tx 2452MHz / 30MHz~25GHz (down 20dBc)







4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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R.O.C.

Kwei Shan

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No. 3-1, Lane 6, Wen San 3rd
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Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
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If you have any suggestion, please feel free to contact us as below information

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Email: ICC_Service@icertifi.com.tw

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