

Test Report

Product: ST MAX

Trade Mark: SKYTRAK™

Model Number: SKYTRAK MAX

FCC ID: 2AH3O-SKYTRAKMAX

Prepared for

Rapsodo Pte Ltd

Blk 20 Ayer Rajah Crescent, #08-05, singapore 139964

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: <http://www.sz-hongbiao.com>

Table of Contents

1	GENERAL DESCRIPTION	6
1.1	DESCRIPTION OF EUT	6
1.2	TEST MODE.....	6
1.3	OPERATION CHANNEL LIST.....	7
1.4	TEST SETUP	7
1.5	POWER SETTING CONFIGURATION PARAMETERS	8
1.6	ANCILLARY EQUIPMENT	8
2	SUMMARY OF TEST RESULT	9
3	TEST FACILITIES AND ACCREDITATIONS	10
3.1	TEST LABORATORY	10
3.2	ENVIRONMENTAL CONDITIONS	10
3.3	MEASUREMENT UNCERTAINTY	10
3.4	TEST SOFTWARE	11
4	LIST OF TEST EQUIPMENT	12
5	TEST ITEM AND RESULTS.....	14
5.1	ANTENNA REQUIREMENT	14
5.1.1	<i>Standard Requirement</i>	14
5.1.2	<i>Test Result</i>	14
5.2	CONDUCTED EMISSION.....	15
5.2.1	<i>Limits</i>	15
5.2.2	<i>Test Procedures</i>	15
5.2.3	<i>Test Setup</i>	16
5.2.4	<i>Test Result</i>	16
5.3	RADIATED EMISSION	19
5.3.1	<i>Limits</i>	19
5.3.2	<i>Test Procedures</i>	19
5.3.3	<i>Test Setup</i>	19
5.3.4	<i>Test Result</i>	20
5.3.5	<i>Radiated Band Edge</i>	26
5.4	PEAK OUTPUT POWER	30
5.4.1	<i>Limit</i>	30
5.4.2	<i>Test Procedure</i>	30
5.4.3	<i>Test Setup</i>	30
5.4.4	<i>Test Results</i>	30
5.5	POWER SPECTRAL DENSITY.....	32
5.5.1	<i>Limit</i>	32
5.5.2	<i>Test Procedure</i>	32
5.5.3	<i>Test Setup</i>	32
5.5.4	<i>Test Results</i>	32
5.6	6dB BANDWIDTH.....	41
5.6.1	<i>Limit</i>	41
5.6.2	<i>Test Procedure</i>	41
5.6.3	<i>Test Setup</i>	41
5.6.4	<i>Test Results</i>	41
5.7	DUTY CYCLE	50
5.7.1	<i>Limit</i>	50
5.7.2	<i>Test Procedure</i>	50

5.7.3 Test Setup..... 50

5.7.4 Test Results 51

5.8 CONDUCTED BAND EDGE 62

5.8.1 Limit 62

5.8.2 Test Procedure 62

5.8.3 Test Setup..... 62

5.8.4 Test Results 62

5.9 SPURIOUS RF CONDUCTED EMISSIONS 71

5.9.1 Limit 71

5.9.2 Measuring Instruments 71

5.9.3 Test Procedure 71

5.9.4 Test Setup..... 71

5.9.5 Test Results 71

6 PHOTOGRAPHS OF THE TEST SETUP.....96

7 PHOTOGRAPHS OF THE EUT.....98

TEST RESULT CERTIFICATION

Applicant's Name..... : Rapsodo Pte Ltd
Address : Blk 20 Ayer Rajah Crescent, #08-05, singapore 139964
Manufacturer's Name : Beyonics Precision Malaysia Sdn Bhd (Plant 1)
Address : Plot 4,8&9 Kawasan Perindustrian Kota Tinggi, Batu 2 Jalan
Lombong, 81900 Kota Tinggi Johor.

Product description

Product name : ST MAX
Model Number : SKYTRAK MAX
Standards : FCC Part 15.247
IEEE/ANSI C63.10-2020
Test procedure..... : KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

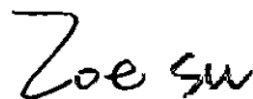
This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

Date (s) of performance of tests..... : July 30, 2025~ Aug. 18, 2025
Test Result..... : **Pass**

Testing Engineer

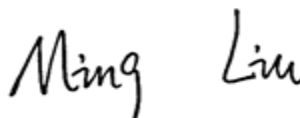
:



(Z o e S u)

Technical Manager

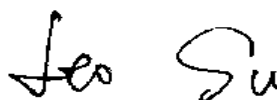
:



(M i n g L i u)

Authorized Signatory

:



(L e o S u)

Revision History

[illegible]

1 General Description

1.1 Description of EUT

Product name:	ST MAX
Model name:	SKYTRAK MAX
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	802.11b/g/n20: 2412~2462 MHz 802.11n40: 2422~2452 MHz
Modulation type:	IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Bit Rate of transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps
Antenna type:	ANT 1: FPC Antenna ANT 2: FPC Antenna
Antenna gain:	ANT 1: 3dBi ANT 2: 3dBi
Max. output power:	17.54dBm
Hardware version:	Rev J
Software version:	V1.0
Battery:	DC 3.7V, 10000mAh
Power supply:	Input: 5V=2.5A
Adapter information:	N/A

1.2 Test Mode

Channel List for 802.11b/g/n (20)

Channel	Channel	Frequency (MHz)
Low	01	2412

Middle	06	2437
High	11	2462

Channel List for 802.11n (40)

Channel	Channel	Frequency (MHz)
Low	03	2422
Middle	06	2437
High	09	2452

1.3 Operation Channel list

Channel List for 802.11b/g/n (20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	\	\

Channel List for 802.11n (40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437	\	\

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

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

Test software Version			teraterm-4.104	
Mode	802.11b	802.11g	802.11n20	802.11n40
Parameters	70	45	35	35
RF cable				
Description	Connector		Length	Supplied by
Antenna Cable	SMA		10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored. Fixed-frequency software: Tera Term.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0004454	Honor Terminal Co., Ltd.
Adapter	CD289	35810	Ugreen Group Limited

Note: The laptop is used to assist the RF test. In order to prevent the laptop from causing unnecessary impact on the test, the laptop will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the laptop.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203 15.247(b)(4)	Antenna Requirement	Pass	
2	15.247 (b)	Peak Output Power	Pass	
3	15.207	Conducted Emission	Pass	
4	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
5	15.247 (e)	Power Spectral Density	Pass	
6	15.247 (a)(2)	6dB Bandwidth	Pass	
7	/	Duty Cycle	Pass	
8	15.205	Band Edge Emission	Pass	
9	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

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

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
PSD, conducted	± 1 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	

Humidity	$\pm 5 \%$	
----------	------------	--

3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-05-18	2026-05-17
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-05-18	2026-05-17
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2024-05-18	2026-05-17
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2025-05-07	2026-05-06
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2025-05-07	2026-05-06
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2025-05-07	2026-05-06
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2025-05-13	2026-05-12
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2024-05-18	2026-05-17
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2025-05-07	2026-05-06
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2025-05-07	2026-05-06
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2025-05-07	2026-05-06
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2025-05-10	2026-05-09
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2025-05-10	2026-05-09
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2025-05-07	2026-05-06
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG AnaioG Signal Generator	Agilent	N5181A	MY47070421	2025-05-07	2026-05-06

2	HB-E042	WIDEBAND RADIO COMMUNICA TION TESTER	R&S	CMW500	132108	2025-05-08	2026-05-07
3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2025-05-08	2026-05-07
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2025-05-07	2026-05-06
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2025-05-08	2026-05-07
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2025-05-09	2026-05-08

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device

5.1.2 Test Result

The EUT antenna is FPC Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note: 1. the tighter limit applies at the band edges. 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

a) EUT Operating Conditions

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

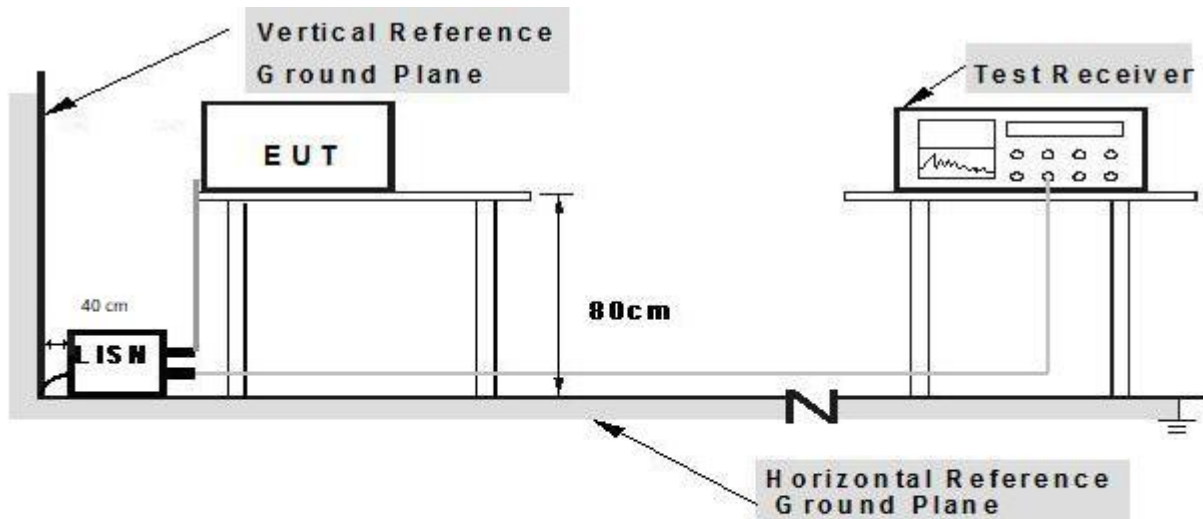
b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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

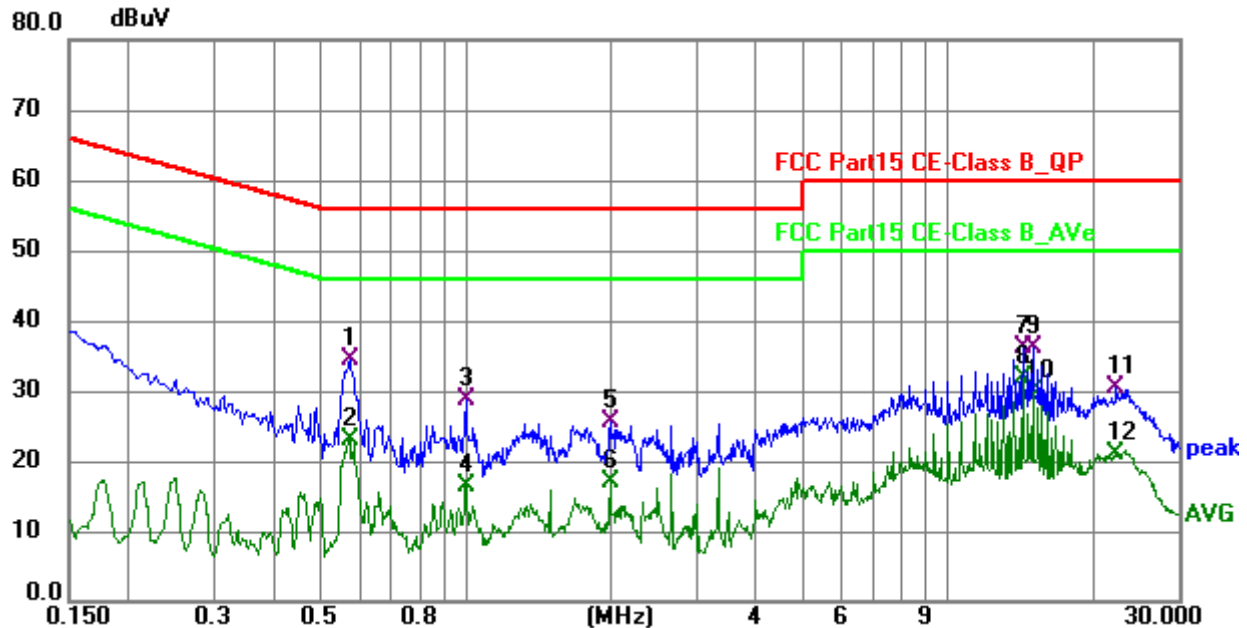
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



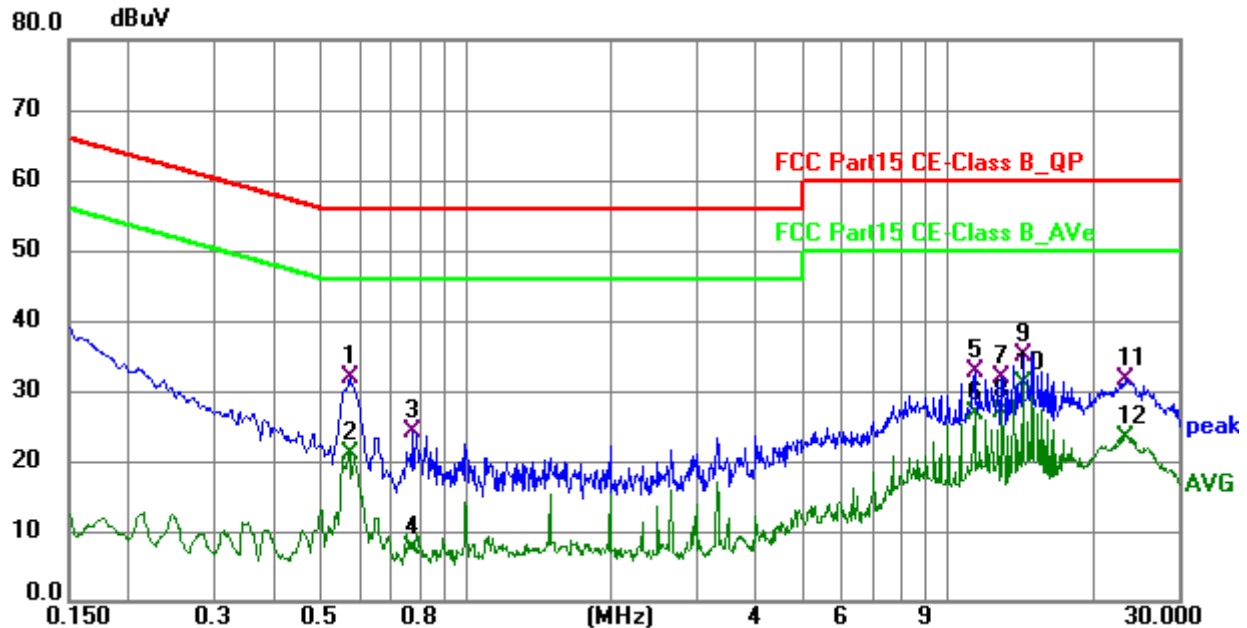
5.2.4 Test Result

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Test Mode:	Charging+TX (802.11b, 2412, ANT1)	Phase:	L
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.573	24.21	10.11	34.32	56.00	-21.68	QP
2	0.573	12.78	10.11	22.89	46.00	-23.11	AVG
3	1.000	18.61	10.13	28.74	56.00	-27.26	QP
4	1.000	6.44	10.13	16.57	46.00	-29.43	AVG
5	1.995	15.10	10.35	25.45	56.00	-30.55	QP
6	1.995	6.61	10.35	16.96	46.00	-29.04	AVG
7	14.338	22.14	14.03	36.17	60.00	-23.83	QP
8 *	14.338	17.76	14.03	31.79	50.00	-18.21	AVG
9	15.000	22.04	14.11	36.15	60.00	-23.85	QP
10	15.000	15.87	14.11	29.98	50.00	-20.02	AVG
11	22.326	15.54	14.97	30.51	60.00	-29.49	QP
12	22.326	6.06	14.97	21.03	50.00	-28.97	AVG

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Test Mode:	Charging+TX (802.11b, 2412, ANT1)	Phase:	N
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.573	21.67	10.12	31.79	56.00	-24.21	QP
2	0.573	10.96	10.12	21.08	46.00	-24.92	AVG
3	0.775	14.06	10.12	24.18	56.00	-31.82	QP
4	0.775	-2.60	10.12	7.52	46.00	-38.48	AVG
5	11.319	19.05	13.75	32.80	60.00	-27.20	QP
6	11.319	12.94	13.75	26.69	50.00	-23.31	AVG
7	12.984	17.96	13.93	31.89	60.00	-28.11	QP
8	12.984	12.93	13.93	26.86	50.00	-23.14	AVG
9	14.316	21.04	14.06	35.10	60.00	-24.90	QP
10 *	14.316	16.86	14.06	30.92	50.00	-19.08	AVG
11	23.483	16.31	15.13	31.44	60.00	-28.56	QP
12	23.483	8.27	15.13	23.40	50.00	-26.60	AVG

5.3 Radiated Emission

5.3.1 Limits

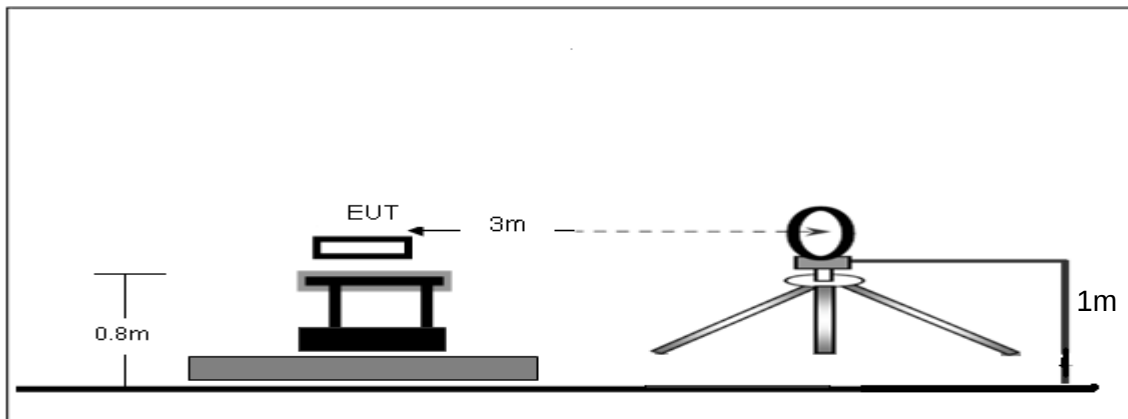
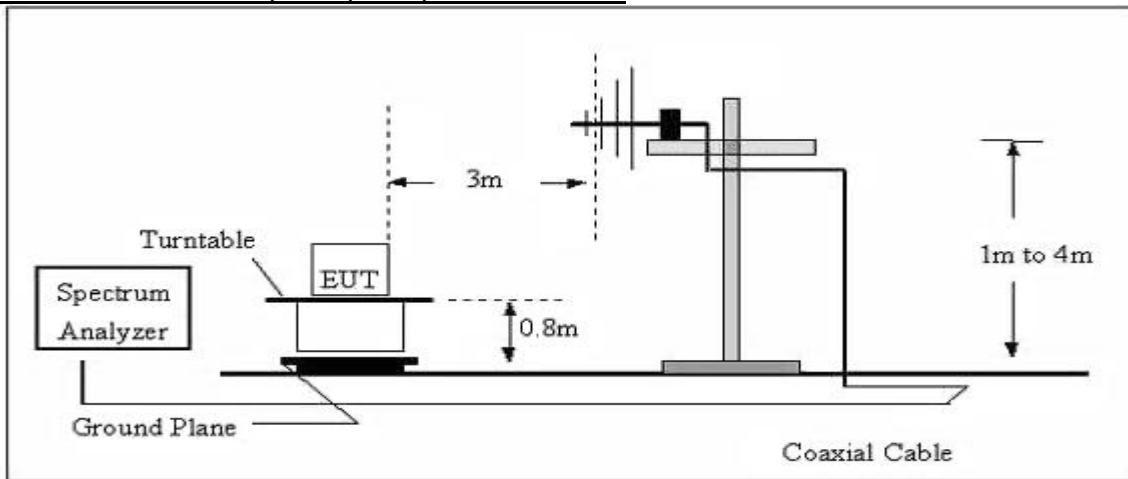
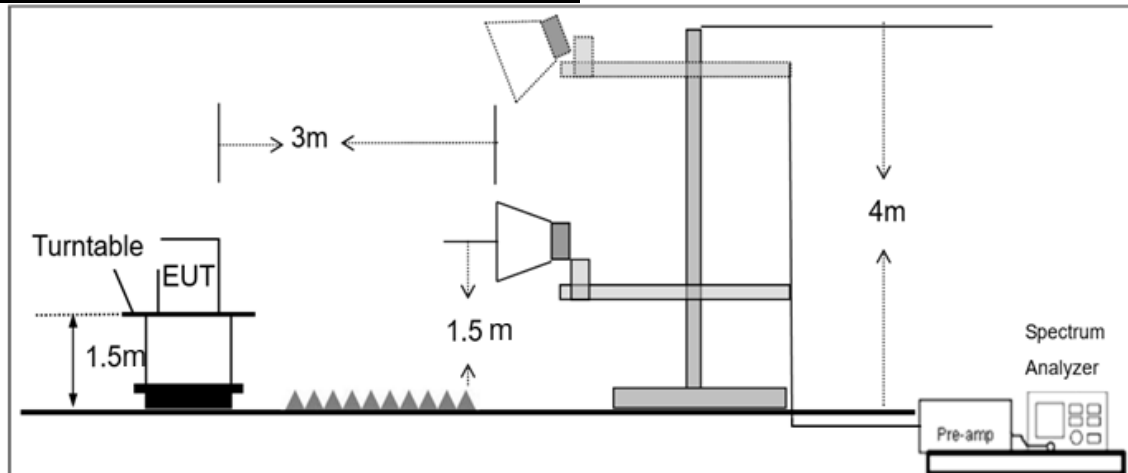
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

- The radiated emission tests were performed in the 3 meters.
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- If the peak mode measured value compliance with and lower than quasi peak mode limit, the EUT shall be deemed to meet QP limits and then no additional QP mode measurement performed.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHzRadiated Emission Test-Up Frequency 30MHz~1GHzRadiated emission test-up frequency above 1GHz**5.3.4 Test Result**

Below 30MHz

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX	Polarization:	--

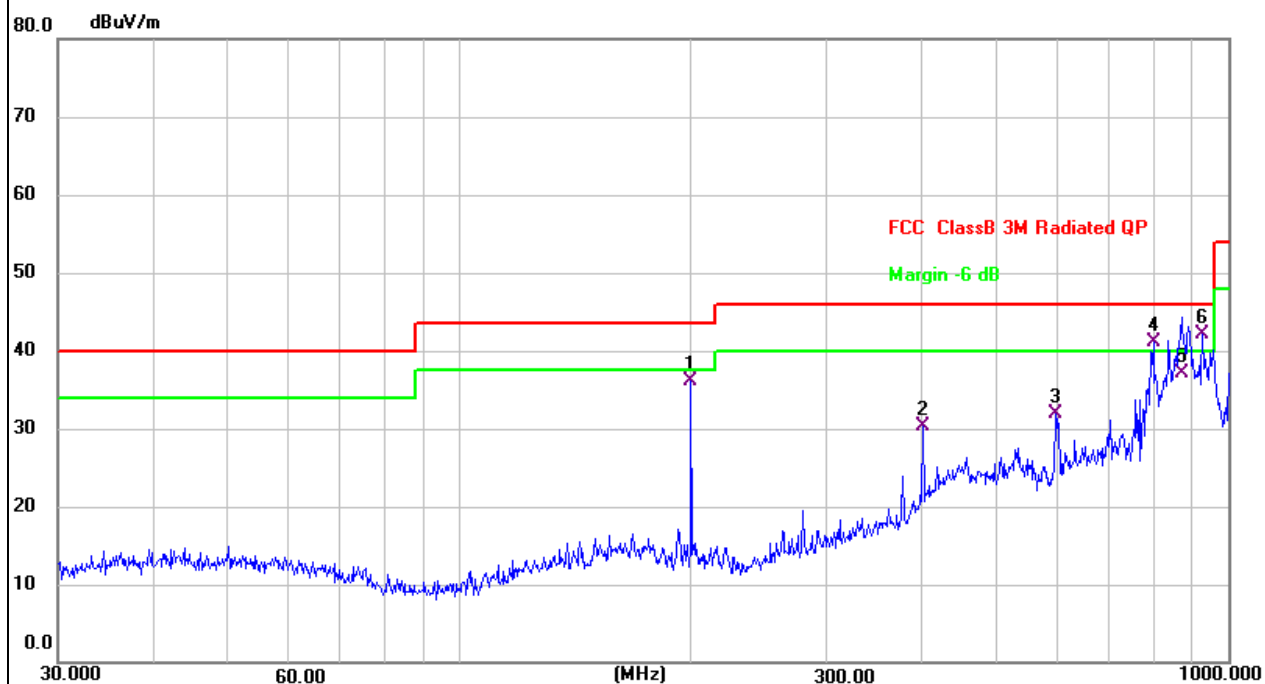
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

1. For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
3. Limit line = specific limits (dBuV) + distance extrapolation factor.

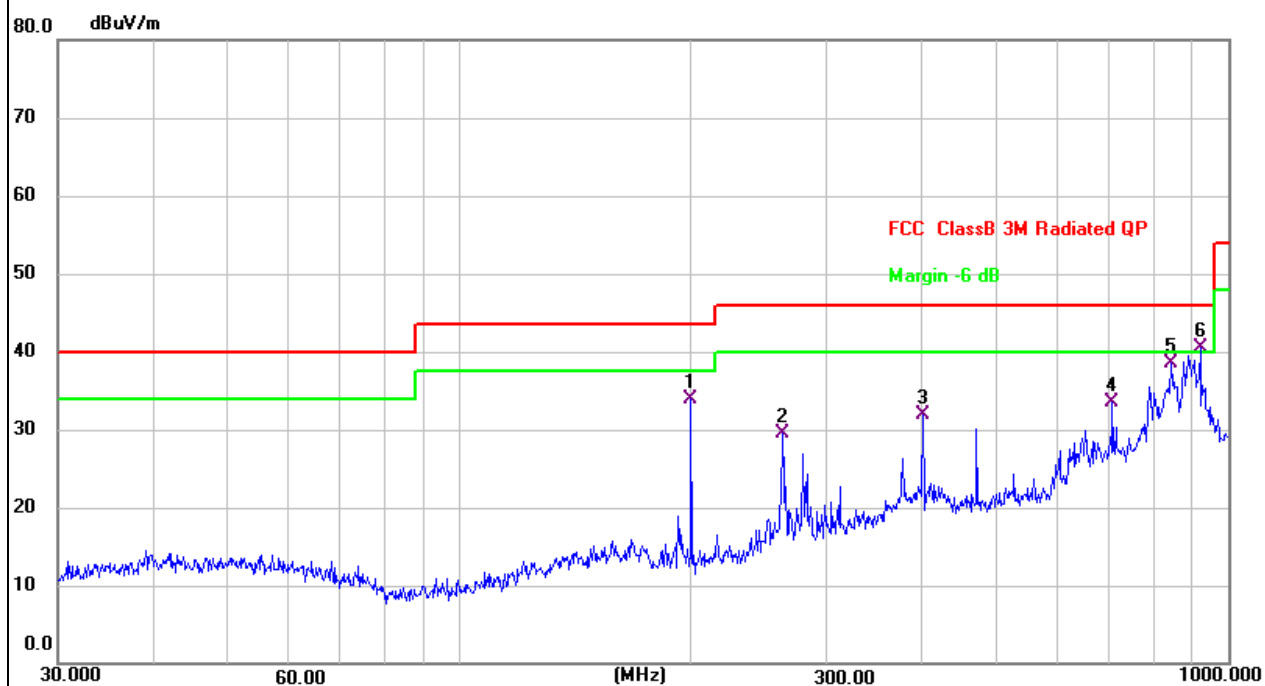
Frequency range (30MHz – 1GHz)

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Test Mode:	Charging+TX (802.11b, 2412, ANT1)	Phase:	Vertical
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	199.9856	52.62	-16.58	36.04	43.50	-7.46	QP
2	400.4319	39.73	-9.37	30.36	46.00	-15.64	QP
3	595.1329	36.49	-4.62	31.87	46.00	-14.13	QP
4 !	798.9797	40.52	0.50	41.02	46.00	-4.98	QP
5	869.1302	36.01	1.09	37.10	46.00	-8.90	QP
6 *	925.7563	40.82	1.29	42.11	46.00	-3.89	QP

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Test Mode:	Charging+TX (802.11b, 2412, ANT1)	Phase:	Horizontal
Test Voltage:	DC 3.7V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	199.9856	50.49	-16.58	33.91	43.50	-9.59	QP
2	262.8955	43.57	-14.01	29.56	46.00	-16.44	QP
3	400.4319	41.20	-9.37	31.83	46.00	-14.17	QP
4	706.6999	35.01	-1.47	33.54	46.00	-12.46	QP
5	842.1296	37.52	0.89	38.41	46.00	-7.59	QP
6 *	919.2866	39.25	1.30	40.55	46.00	-5.45	QP

Frequency range (1GHz-25GHz)

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor dB/m	Preamplifier Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2412 MHz)(802.11b-ANT1)--Above 1G									
4824.161	43.77	4.83	33.6	30.80	51.40	74.00	-22.60	Pk	Vertical
4824.161	31.86	4.83	33.6	30.80	39.49	54.00	-14.51	AV	Vertical
7236.396	42.25	5.85	37.45	31.50	54.05	74.00	-19.95	Pk	Vertical
7236.396	32.16	5.85	37.45	31.50	43.96	54.00	-10.04	AV	Vertical
4824.154	43.43	4.83	33.6	30.80	51.06	74.00	-22.94	Pk	Horizontal
4824.154	31.87	4.83	33.6	30.80	39.50	54.00	-14.50	AV	Horizontal
7236.168	43.59	5.85	37.45	31.50	55.39	74.00	-18.61	Pk	Horizontal
7236.168	32.25	5.85	37.45	31.50	44.05	54.00	-9.95	AV	Horizontal
Middle Channel (2437 MHz)(802.11b-ANT1)--Above 1G									
4874.112	42.67	4.88	33.75	30.80	50.50	74.00	-23.50	Pk	Vertical
4874.112	32.05	4.88	33.75	30.80	39.88	54.00	-14.12	AV	Vertical
7311.247	44.37	5.90	38.10	31.59	56.78	74.00	-17.22	Pk	Vertical
7311.247	32.71	5.90	38.10	31.59	45.12	54.00	-8.88	AV	Vertical
4874.132	43.79	4.88	33.75	30.80	51.62	74.00	-22.38	Pk	Horizontal
4874.132	31.91	4.88	33.75	30.80	39.74	54.00	-14.26	AV	Horizontal
7311.085	43.99	5.90	38.10	31.59	56.40	74.00	-17.60	Pk	Horizontal
7311.085	32.79	5.90	38.10	31.59	45.20	54.00	-8.80	AV	Horizontal
High Channel (2462 MHz)(802.11b-ANT1)--Above 1G									
4924.169	43.32	4.93	34.04	30.08	52.21	74.00	-21.79	Pk	Vertical
4924.169	32.04	4.93	34.04	30.08	40.93	54.00	-13.07	AV	Vertical
7386.215	43.65	6.01	37.90	31.74	55.82	74.00	-18.18	Pk	Vertical
7386.215	32.54	6.01	37.90	31.74	44.71	54.00	-9.29	AV	Vertical
4924.045	44.26	4.93	34.04	30.08	53.15	74.00	-20.85	Pk	Horizontal
4924.045	32.02	4.93	34.04	30.08	40.91	54.00	-13.09	AV	Horizontal
7386.132	43.66	6.01	37.90	31.74	55.83	74.00	-18.17	Pk	Horizontal
7386.132	32.46	6.01	37.90	31.74	44.63	54.00	-9.37	AV	Horizontal

Frequency (MHz)	Read Level (dBμV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2412 MHz)(802.11b-ANT2)--Above 1G									
4824.161	43.69	4.83	33.6	30.80	51.32	74.00	-22.68	Pk	Vertical
4824.161	31.79	4.83	33.6	30.80	39.42	54.00	-14.58	AV	Vertical
7236.396	42.36	5.85	37.45	31.50	54.16	74.00	-19.84	Pk	Vertical
7236.396	32.02	5.85	37.45	31.50	43.82	54.00	-10.18	AV	Vertical
4824.154	43.35	4.83	33.6	30.80	50.98	74.00	-23.02	Pk	Horizontal
4824.154	31.99	4.83	33.6	30.80	39.62	54.00	-14.38	AV	Horizontal
7236.168	43.40	5.85	37.45	31.50	55.20	74.00	-18.80	Pk	Horizontal
7236.168	32.09	5.85	37.45	31.50	43.89	54.00	-10.11	AV	Horizontal
Middle Channel (2437 MHz)(802.11b-ANT2)--Above 1G									
4874.112	42.58	4.88	33.75	30.80	50.41	74.00	-23.59	Pk	Vertical
4874.112	31.98	4.88	33.75	30.80	39.81	54.00	-14.19	AV	Vertical
7311.247	44.57	5.90	38.10	31.59	56.98	74.00	-17.02	Pk	Vertical
7311.247	32.55	5.90	38.10	31.59	44.96	54.00	-9.04	AV	Vertical
4874.132	43.70	4.88	33.75	30.80	51.53	74.00	-22.47	Pk	Horizontal
4874.132	32.13	4.88	33.75	30.80	39.96	54.00	-14.04	AV	Horizontal
7311.085	44.18	5.90	38.10	31.59	56.59	74.00	-17.41	Pk	Horizontal
7311.085	32.65	5.90	38.10	31.59	45.06	54.00	-8.94	AV	Horizontal
High Channel (2462 MHz)(802.11b-ANT2)--Above 1G									
4924.169	43.13	4.93	34.04	30.08	52.02	74.00	-21.98	Pk	Vertical
4924.169	32.01	4.93	34.04	30.08	40.90	54.00	-13.10	AV	Vertical
7386.215	43.78	6.01	37.90	31.74	55.95	74.00	-18.05	Pk	Vertical
7386.215	32.44	6.01	37.90	31.74	44.61	54.00	-9.39	AV	Vertical
4924.045	44.27	4.93	34.04	30.08	53.16	74.00	-20.84	Pk	Horizontal
4924.045	32.30	4.93	34.04	30.08	41.19	54.00	-12.81	AV	Horizontal
7386.132	43.76	6.01	37.90	31.74	55.93	74.00	-18.07	Pk	Horizontal
7386.132	32.54	6.01	37.90	31.74	44.71	54.00	-9.29	AV	Horizontal

Note:

1. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
2. All other emissions more than 20dB below the limit.
3. All the modulation modes have been tested, and only the worst results are reflected in the report. The worst mode is 802.11b.

5.3.5 Radiated Band Edge

Frequency (MHz)	Meter Reading (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamplifier Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type	Comment
802.11b-ANT1 (Channel 01&11)									
2310.00	46.17	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.46	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.84	3.40	27.80	32.41	43.44	74	-30.56	Pk	Vertical
2310.00	33.60	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.52	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.51	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.41	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.58	3.45	27.70	32.49	32.99	54	-21.01	AV	Horizontal
2400.00	46.73	3.46	27.80	32.54	45.45	74	-28.55	Pk	Vertical
2400.00	34.55	3.46	27.80	32.54	33.27	54	-20.73	AV	Vertical
2400.00	45.88	3.46	27.80	32.54	44.60	74	-29.40	Pk	Horizontal
2400.00	34.32	3.46	27.80	32.54	33.04	54	-20.96	AV	Horizontal
2483.50	47.29	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical
2483.50	34.09	3.48	28.53	32.55	33.28	54	-20.72	AV	Vertical
2483.50	46.29	3.48	28.53	32.55	45.56	74	-28.44	Pk	Horizontal
2483.50	33.94	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.37	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.81	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.32	3.49	29.20	32.66	45.21	74	-28.79	Pk	Horizontal
2500.00	33.79	3.49	29.20	32.66	33.66	54	-20.34	AV	Horizontal
802.11b-ANT2 (Channel 01&11)									
2310.00	46.09	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.47	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.78	3.40	27.80	32.41	43.44	74	-30.56	Pk	Vertical
2310.00	33.64	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.53	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.55	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.20	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.34	3.45	27.70	32.49	32.99	54	-21.01	AV	Horizontal
2400.00	46.81	3.46	27.80	32.54	45.53	74	-28.47	Pk	Vertical
2400.00	34.36	3.46	27.80	32.54	33.08	54	-20.92	AV	Vertical
2400.00	46.04	3.46	27.80	32.54	44.76	74	-29.24	Pk	Horizontal
2400.00	34.55	3.46	27.80	32.54	33.27	54	-20.73	AV	Horizontal
2483.50	47.19	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical
2483.50	33.94	3.48	28.53	32.55	33.28	54	-20.72	AV	Vertical

2483.50	46.17	3.48	28.53	32.55	45.56	74	-28.44	Pk	Horizontal
2483.50	33.79	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.50	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.93	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.37	3.49	29.20	32.66	45.21	74	-28.79	Pk	Horizontal
2500.00	33.68	3.49	29.20	32.66	33.66	54	-20.34	AV	Horizontal
802.11g-ANT1(Channel 01&11)									
2310.00	45.99	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.35	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.68	3.40	27.80	32.41	43.44	74	-30.56	Pk	Vertical
2310.00	33.70	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.47	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.52	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.25	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.56	3.45	27.70	32.49	32.99	54	-21.01	AV	Horizontal
2400.00	46.58	3.46	27.80	32.54	45.30	74	-28.70	Pk	Vertical
2400.00	34.34	3.46	27.80	32.54	33.06	54	-20.94	AV	Vertical
2400.00	45.77	3.46	27.80	32.54	44.49	74	-29.51	Pk	Horizontal
2400.00	34.51	3.46	27.80	32.54	33.23	54	-20.77	AV	Horizontal
2483.50	47.30	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical
2483.50	33.93	3.48	28.53	32.55	33.28	54	-20.72	AV	Vertical
2483.50	46.27	3.48	28.53	32.55	45.56	74	-28.44	Pk	Horizontal
2483.50	33.75	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.42	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.83	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.20	3.49	29.20	32.66	45.21	74	-28.79	Pk	Horizontal
2500.00	33.82	3.49	29.20	32.66	33.66	54	-20.34	AV	Horizontal
802.11g-ANT2(Channel 01&11)									
2310.00	45.96	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.35	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.68	3.40	27.80	32.41	43.44	74	-30.56	Pk	Vertical
2310.00	33.59	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.47	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.56	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.38	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.53	3.45	27.70	32.49	32.99	54	-21.01	AV	Horizontal
2400.00	46.64	3.46	27.80	32.54	45.36	74	-28.64	Pk	Vertical
2400.00	34.56	3.46	27.80	32.54	33.28	54	-20.72	AV	Vertical
2400.00	45.78	3.46	27.80	32.54	44.50	74	-29.50	Pk	Horizontal
2400.00	34.32	3.46	27.80	32.54	33.04	54	-20.96	AV	Horizontal
2483.50	47.26	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical

2483.50	34.01	3.48	28.53	32.55	33.28	54	-20.72	AV	Vertical
2483.50	46.18	3.48	28.53	32.55	45.56	74	-28.44	Pk	Horizontal
2483.50	33.72	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.35	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.94	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.27	3.49	29.20	32.66	45.21	74	-28.79	Pk	Horizontal
2500.00	33.66	3.49	29.20	32.66	33.66	54	-20.34	AV	Horizontal
802.11n20-ANT1+2(Channel 01&11)									
2310.00	46.19	3.40	27.80	32.41	44.98	74	-29.02	Pk	Horizontal
2310.00	33.56	3.40	27.80	32.41	32.35	54	-21.65	AV	Horizontal
2310.00	44.83	3.40	27.80	32.41	43.62	74	-30.38	Pk	Vertical
2310.00	33.53	3.40	27.80	32.41	32.32	54	-21.68	AV	Vertical
2390.00	45.69	3.45	27.70	32.49	44.35	74	-29.65	Pk	Vertical
2390.00	34.56	3.45	27.70	32.49	33.22	54	-20.78	AV	Vertical
2390.00	46.22	3.45	27.70	32.49	44.88	74	-29.12	Pk	Horizontal
2390.00	34.62	3.45	27.70	32.49	33.28	54	-20.72	AV	Horizontal
2400.00	46.82	3.46	27.80	32.54	45.54	74	-28.46	Pk	Vertical
2400.00	34.39	3.46	27.80	32.54	33.11	54	-20.89	AV	Vertical
2400.00	45.98	3.46	27.80	32.54	44.70	74	-29.30	Pk	Horizontal
2400.00	34.37	3.46	27.80	32.54	33.09	54	-20.91	AV	Horizontal
2483.50	47.09	3.48	28.53	32.55	46.55	74	-27.45	Pk	Vertical
2483.50	33.84	3.48	28.53	32.55	33.30	54	-20.70	AV	Vertical
2483.50	46.36	3.48	28.53	32.55	45.82	74	-28.18	Pk	Horizontal
2483.50	33.78	3.48	28.53	32.55	33.24	54	-20.76	AV	Horizontal
2500.00	45.46	3.49	29.20	32.66	45.49	74	-28.51	Pk	Vertical
2500.00	33.77	3.49	29.20	32.66	33.80	54	-20.20	AV	Vertical
2500.00	45.40	3.49	29.20	32.66	45.43	74	-28.57	Pk	Horizontal
2500.00	33.78	3.49	29.20	32.66	33.81	54	-20.19	AV	Horizontal
802.11n40ANT1+2(Channel 03&09)									
2310.00	45.97	3.40	27.80	32.41	44.76	74	-29.24	Pk	Horizontal
2310.00	33.55	3.40	27.80	32.41	32.34	54	-21.66	AV	Horizontal
2310.00	44.76	3.40	27.80	32.41	43.55	74	-30.45	Pk	Vertical
2310.00	33.43	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.59	3.45	27.70	32.49	44.25	74	-29.75	Pk	Vertical
2390.00	34.47	3.45	27.70	32.49	33.13	54	-20.87	AV	Vertical
2390.00	46.18	3.45	27.70	32.49	44.84	74	-29.16	Pk	Horizontal
2390.00	34.38	3.45	27.70	32.49	33.04	54	-20.96	AV	Horizontal
2400.00	46.58	3.46	27.80	32.54	45.30	74	-28.70	Pk	Vertical
2400.00	34.46	3.46	27.80	32.54	33.18	54	-20.82	AV	Vertical
2400.00	46.05	3.46	27.80	32.54	44.77	74	-29.23	Pk	Horizontal
2400.00	34.27	3.46	27.80	32.54	32.99	54	-21.01	AV	Horizontal

2483.50	47.28	3.48	28.53	32.55	46.74	74	-27.26	Pk	Vertical
2483.50	33.95	3.48	28.53	32.55	33.41	54	-20.59	AV	Vertical
2483.50	46.35	3.48	28.53	32.55	45.81	74	-28.19	Pk	Horizontal
2483.50	33.72	3.48	28.53	32.55	33.18	54	-20.82	AV	Horizontal
2500.00	45.48	3.49	29.20	32.66	45.51	74	-28.49	Pk	Vertical
2500.00	33.95	3.49	29.20	32.66	33.98	54	-20.02	AV	Vertical
2500.00	45.21	3.49	29.20	32.66	45.24	74	-28.76	Pk	Horizontal
2500.00	33.69	3.49	29.20	32.66	33.72	54	-20.28	AV	Horizontal

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.

5.4 Peak Output Power

5.4.1 Limit

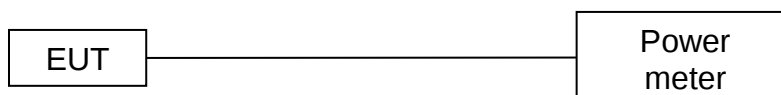
FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.4.2 Test Procedure

1. PKPM1 Peak power meter measurement

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

5.4.3 Test Setup



5.4.4 Test Results

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Test Mode:	TX Mode	Test Voltage:	DC 3.7V from battery

802.11b

Test Channel	Frequency (MHz)	ANT 1 Maximum Peak Conducted Output Power(dBm)	ANT 2 Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	17.09	17.53	30
CH06	2437	16.44	17	30
CH11	2462	16.31	16.92	30

802.11g

Test Channel	Frequency (MHz)	ANT 1 Maximum Peak Conducted Output Power(dBm)	ANT 2 Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	17.54	17.48	30
CH06	2437	16.7	16.89	30
CH11	2462	16.6	16.56	30

802.11n20

Test Channel	Frequency (MHz)	Output Power (ANT 1)		Output Power (ANT 2)		Limit	(ANT 1 + ANT 2) Total Power		Total Power Limit (dBm)	
		dBm	mW	dBm	mW		dBm	mW	dBm	mW
CH01	2412	14.71	29.58	14	25.12	30	17.38	54.70	29.99	977.7
CH06	2437	13.49	22.34	12.66	18.45	30	16.11	40.83		
CH11	2462	13.45	22.13	13.29	21.33	30	16.38	43.45		

802.11n40

Test Channel	Frequency (MHz)	Output Power (ANT 1)		Output Power (ANT 2)		Limit	(ANT 1 + ANT 2) Total Power		Total Power Limit (dBm)	
		dBm	mW	dBm	mW		dBm	mW	dBm	mW
CH01	2422	14.11	25.76	14.16	26.06	30	17.15	51.88	29.99	977.7
CH06	2437	13.46	22.18	14.17	26.12	30	16.84	48.31		
CH11	2452	13.64	23.12	14.15	26.00	30	16.91	49.09		

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced. Antenna technology is for MIMO.

The limit should be calculated as below: Total Power Limit = 30 - (Directional gain - 6) = 29.9 dBm

Directional gain = G ANT + 10 log(N ANT) dBi = 3 + 10 log(2) = 6.01 dBi

5.5 Power Spectral Density

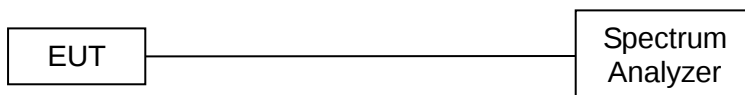
5.5.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5

5.5.2 Test Procedure

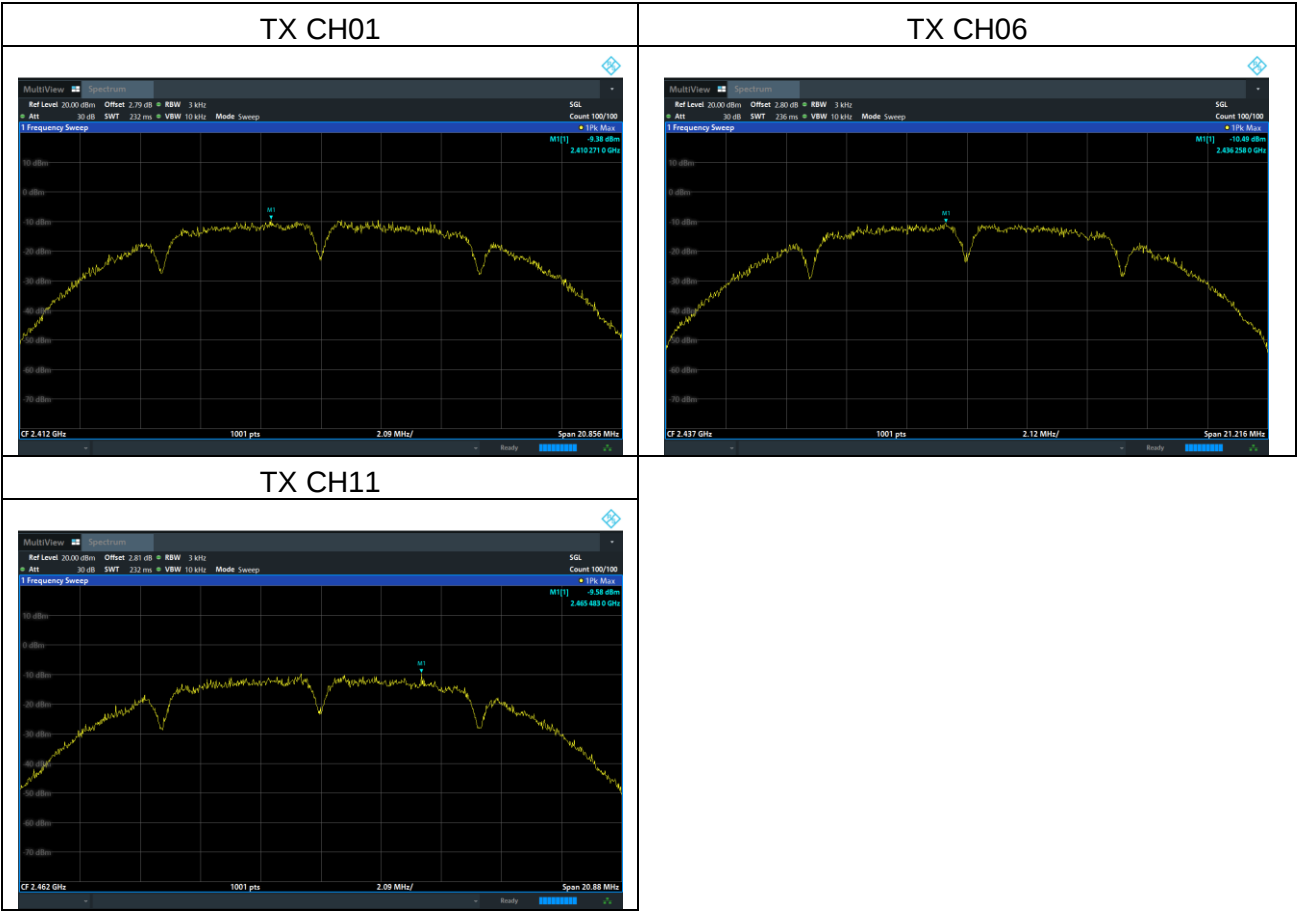
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.5.3 Test Setup

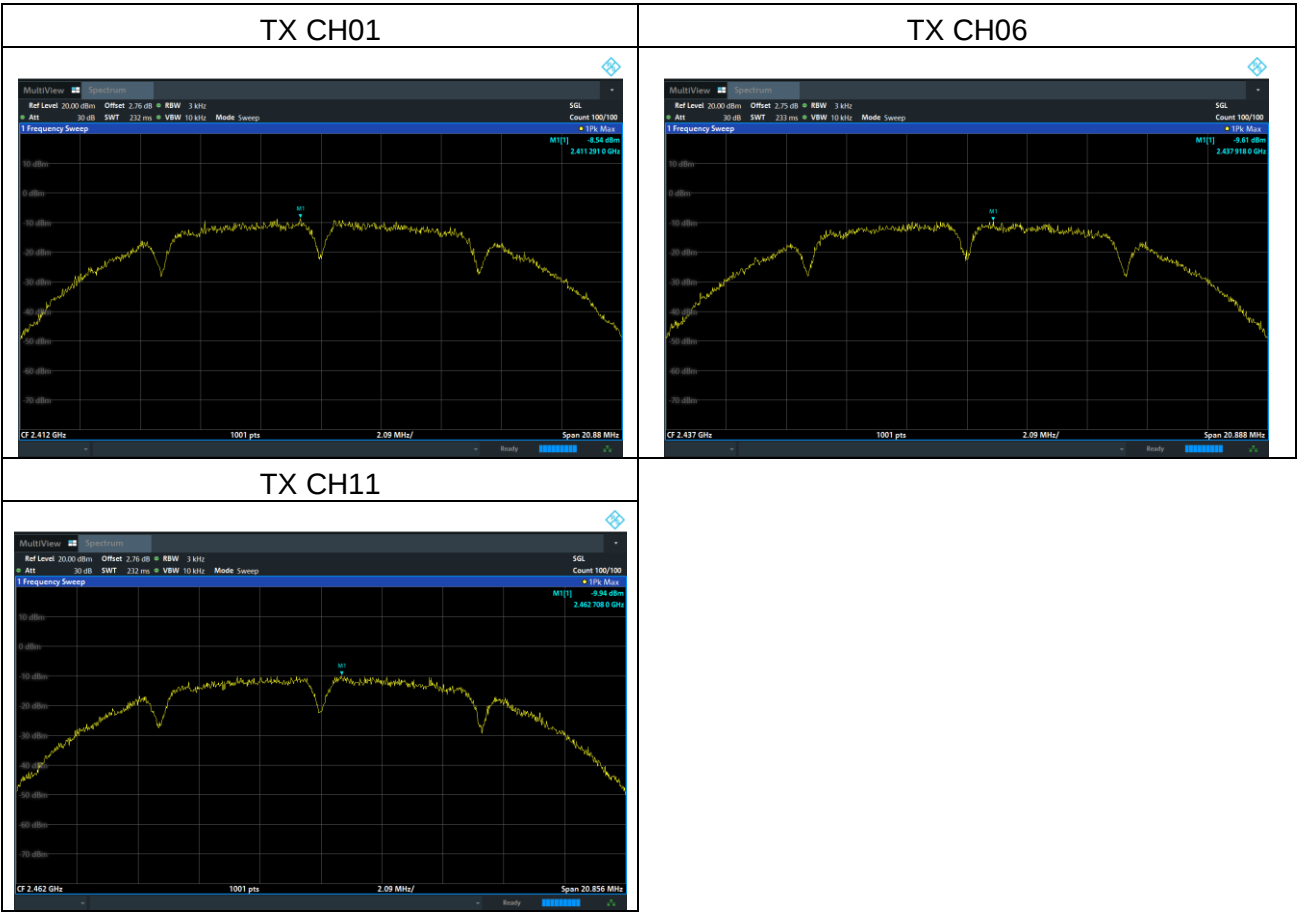


5.5.4 Test Results

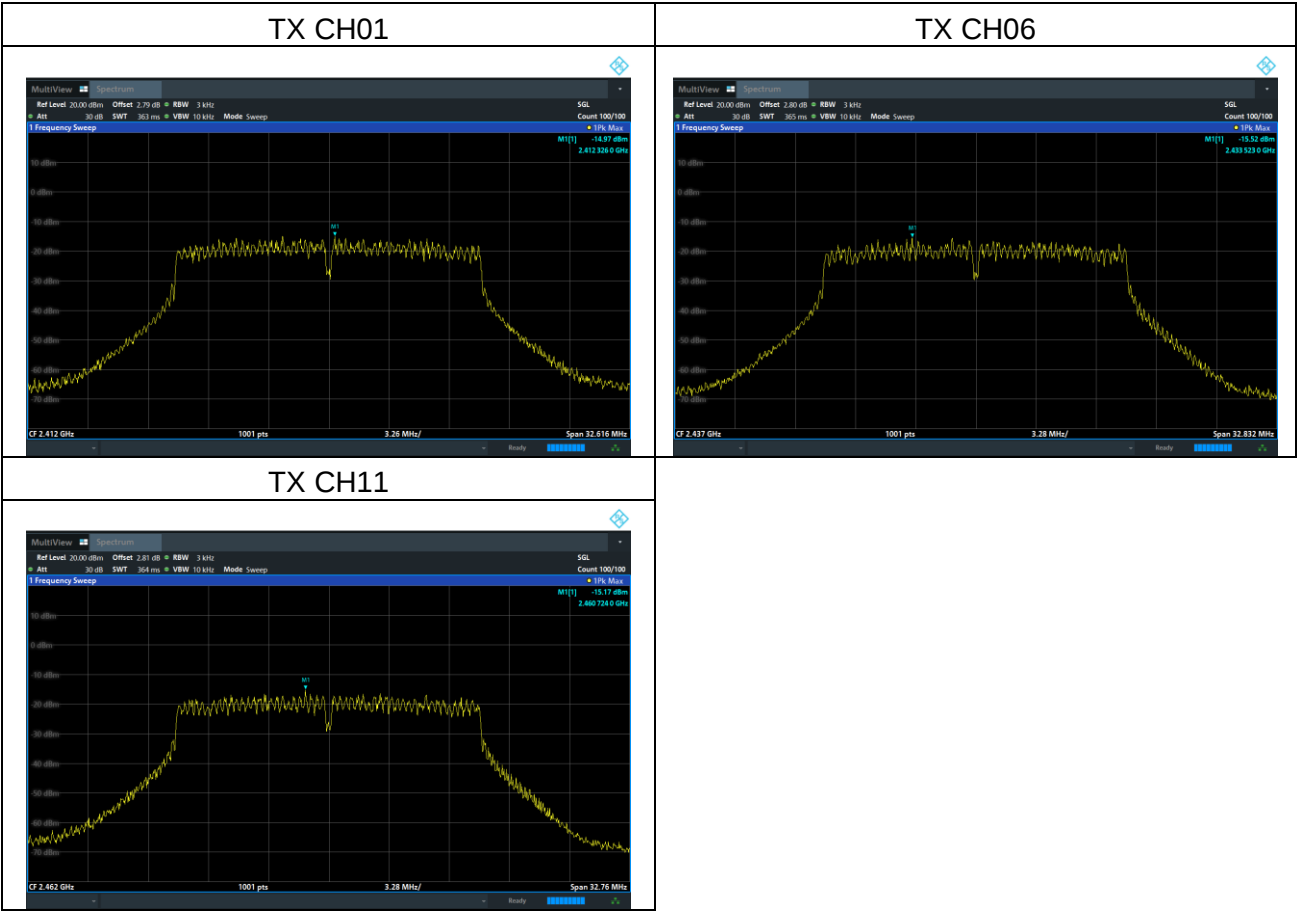
802.11b ANT 1				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-9.38	8	Pass
CH06	2437	-10.49	8	Pass
CH11	2462	-9.58	8	Pass



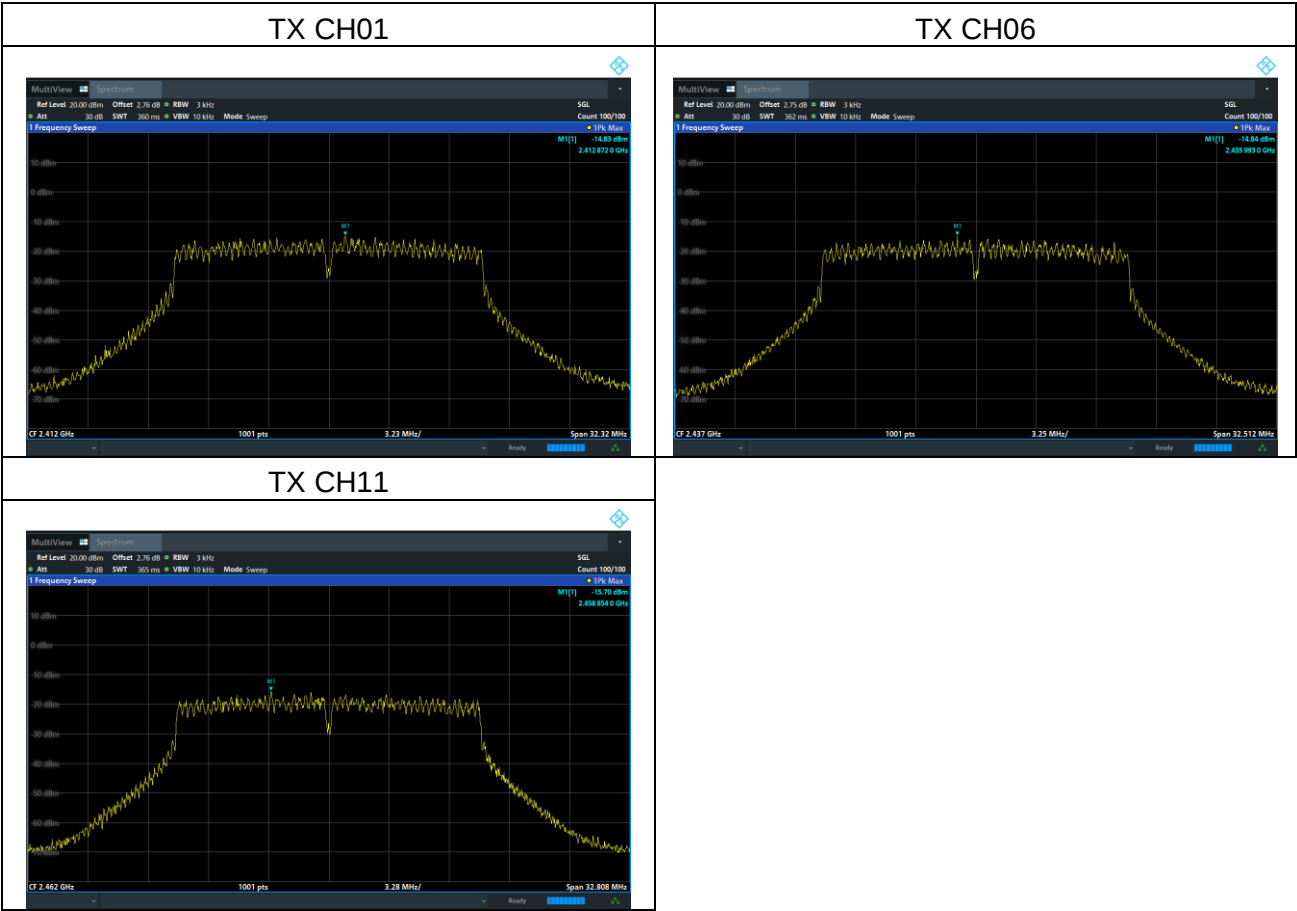
802.11b ANT 2				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-8.54	8	Pass
CH06	2437	-9.61	8	Pass
CH11	2462	-9.94	8	Pass



802.11g ANT 1				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-14.97	8	Pass
CH06	2437	-15.52	8	Pass
CH11	2462	-15.17	8	Pass



802.11g ANT 2				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-14.83	8	Pass
CH06	2437	-14.84	8	Pass
CH11	2462	-15.7	8	Pass

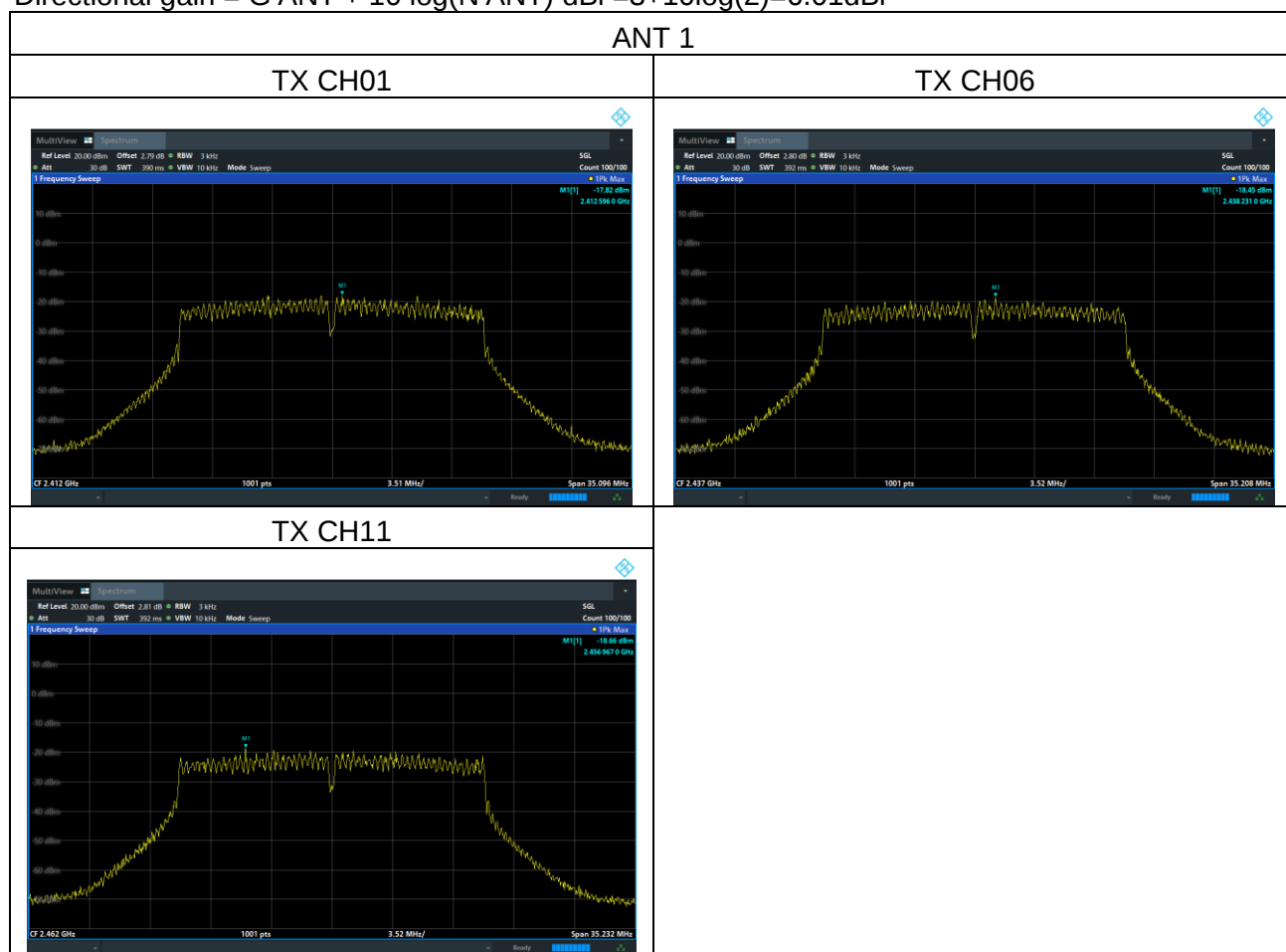


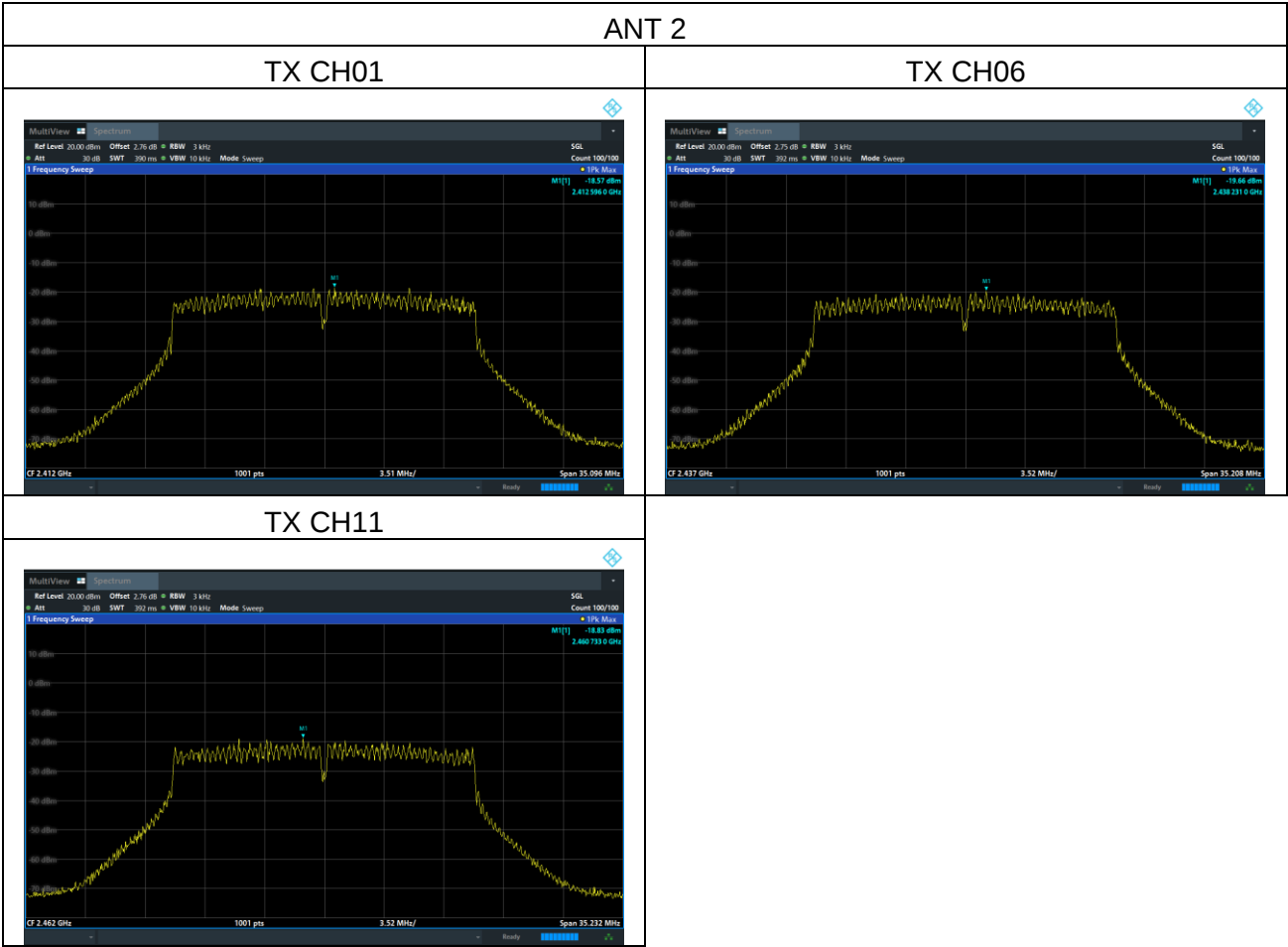
802.11n20						
Test Channel	Frequency (MHz)	Power Density of ANT 1 (dBm/3kHz)	Power Density of ANT 2 (dBm/3kHz)	Total Power Density of (ANT 1 + 2) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	17.82	-18.57	-15.17	7.99	Pass
CH06	2437	-18.45	-19.66	-16	7.99	Pass
CH11	2462	-18.66	-18.83	-15.73	7.99	Pass

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

The limit should be calculated as below: Total Power Limit = 8-(Directional gain-6) = 7.99dbm

Directional gain = G ANT + 10 log(N ANT) dBi = 3+10log(2)=6.01dBi



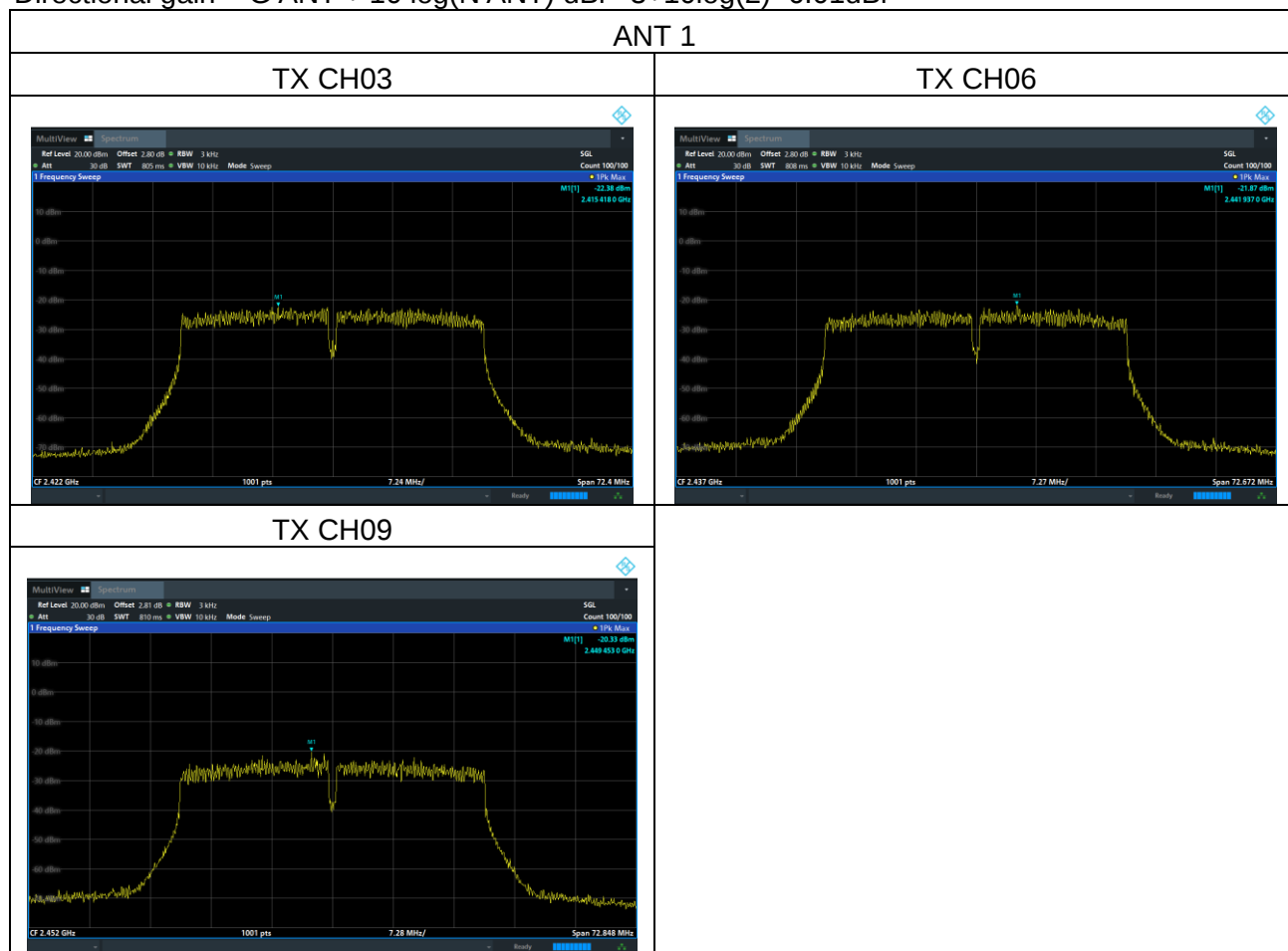


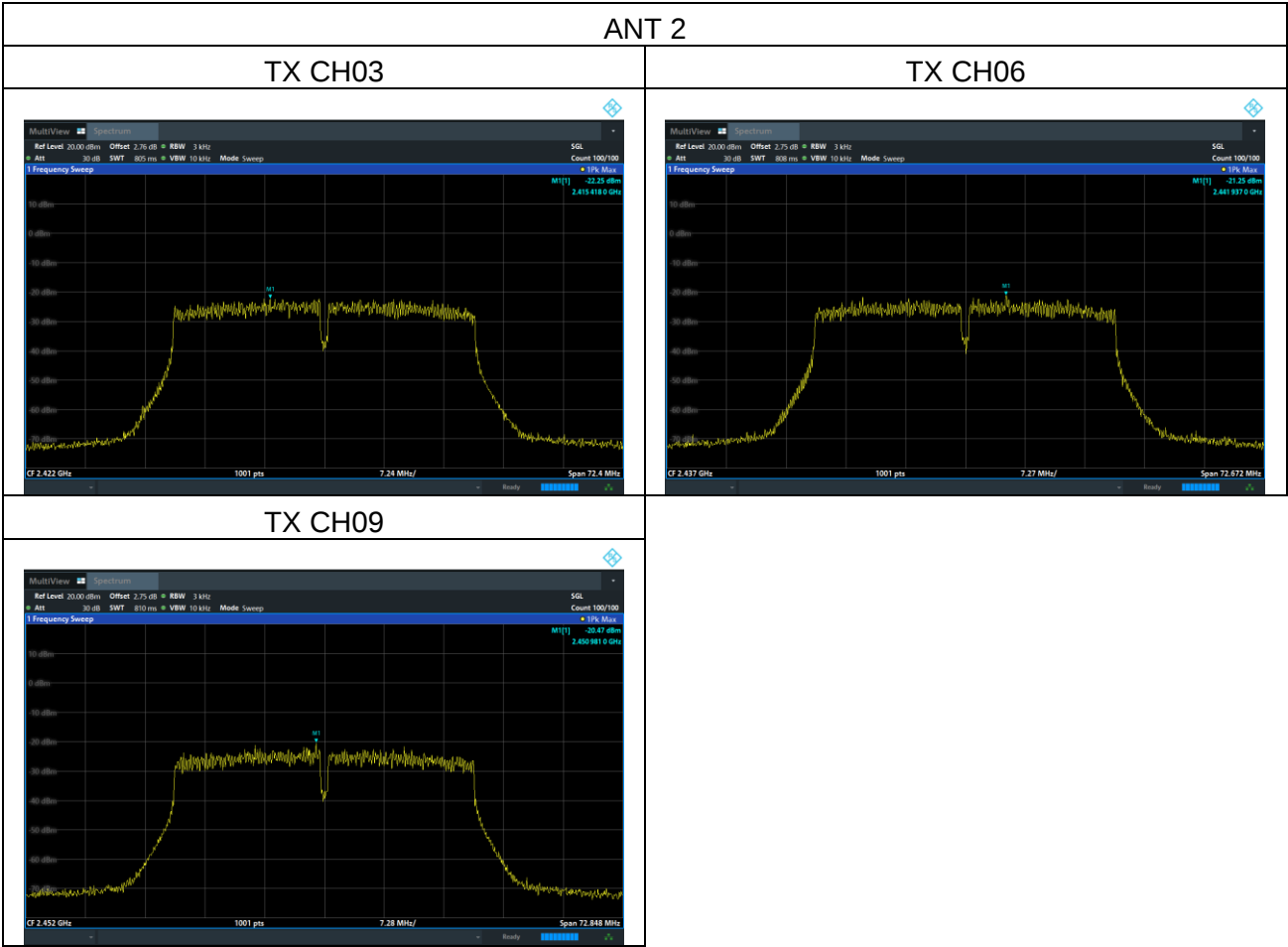
802.11n40						
Test Channel	Frequency (MHz)	Power Density of ANT 1 (dBm/3kHz)	Power Density of ANT 2 (dBm/3kHz)	Total Power Density of (ANT 1 + 2) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH03	2422	-22.38	-22.25	-19.3	7.99	Pass
CH06	2437	-21.87	-21.25	-18.54	7.99	Pass
CH09	2452	-20.33	-20.47	-17.39	7.99	Pass

Note: if transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

The limit should be calculated as below: Total Power Limit = 8-(Directional gain-6) =7.99dbm

Directional gain = G ANT + 10 log(N ANT) dBi =3+10log(2)=6.01dBi





5.6 6dB Bandwidth

5.6.1 Limit

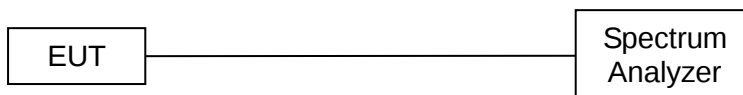
FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	$\geq 500\text{kHz}$ (6dB bandwidth)	2400-2483.5

5.6.2 Test Procedure

The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.

5.6.3 Test Setup

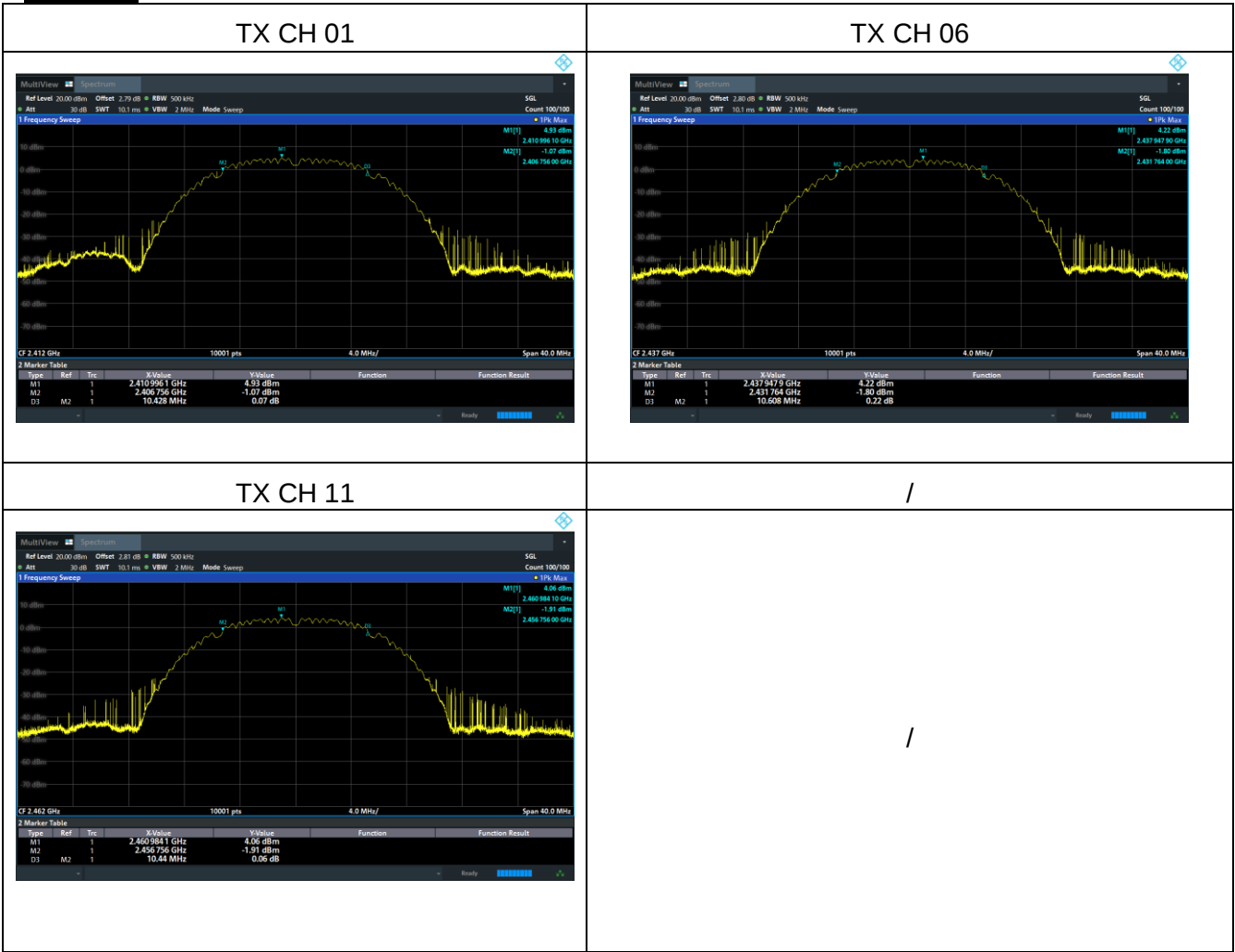


5.6.4 Test Results

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 1 TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	10.428	500	Pass
CH06	2437	10.608	500	Pass
CH11	2462	10.44	500	Pass

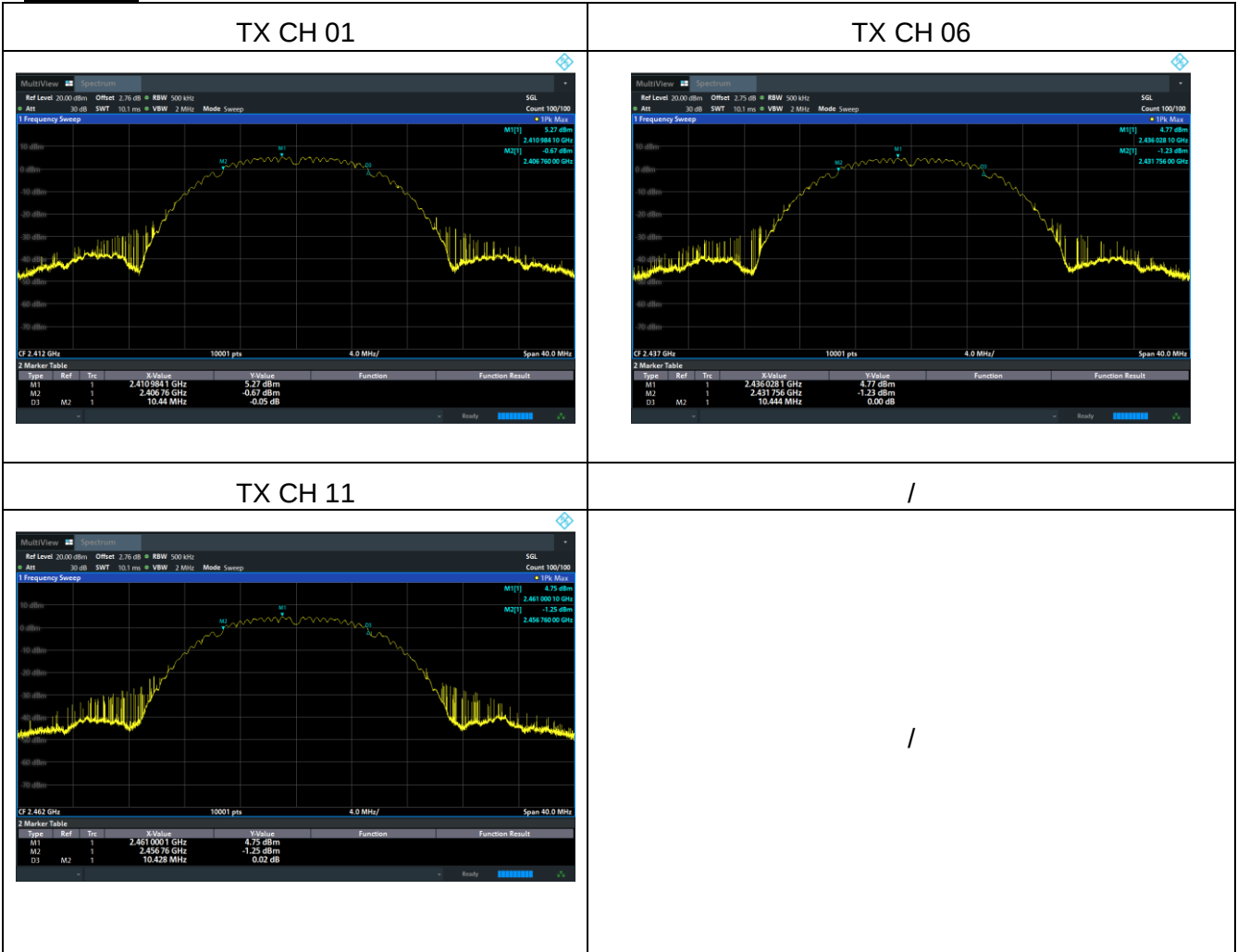
Test plots



EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 2 TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	10.44	500	Pass
CH06	2437	10.444	500	Pass
CH11	2462	10.428	500	Pass

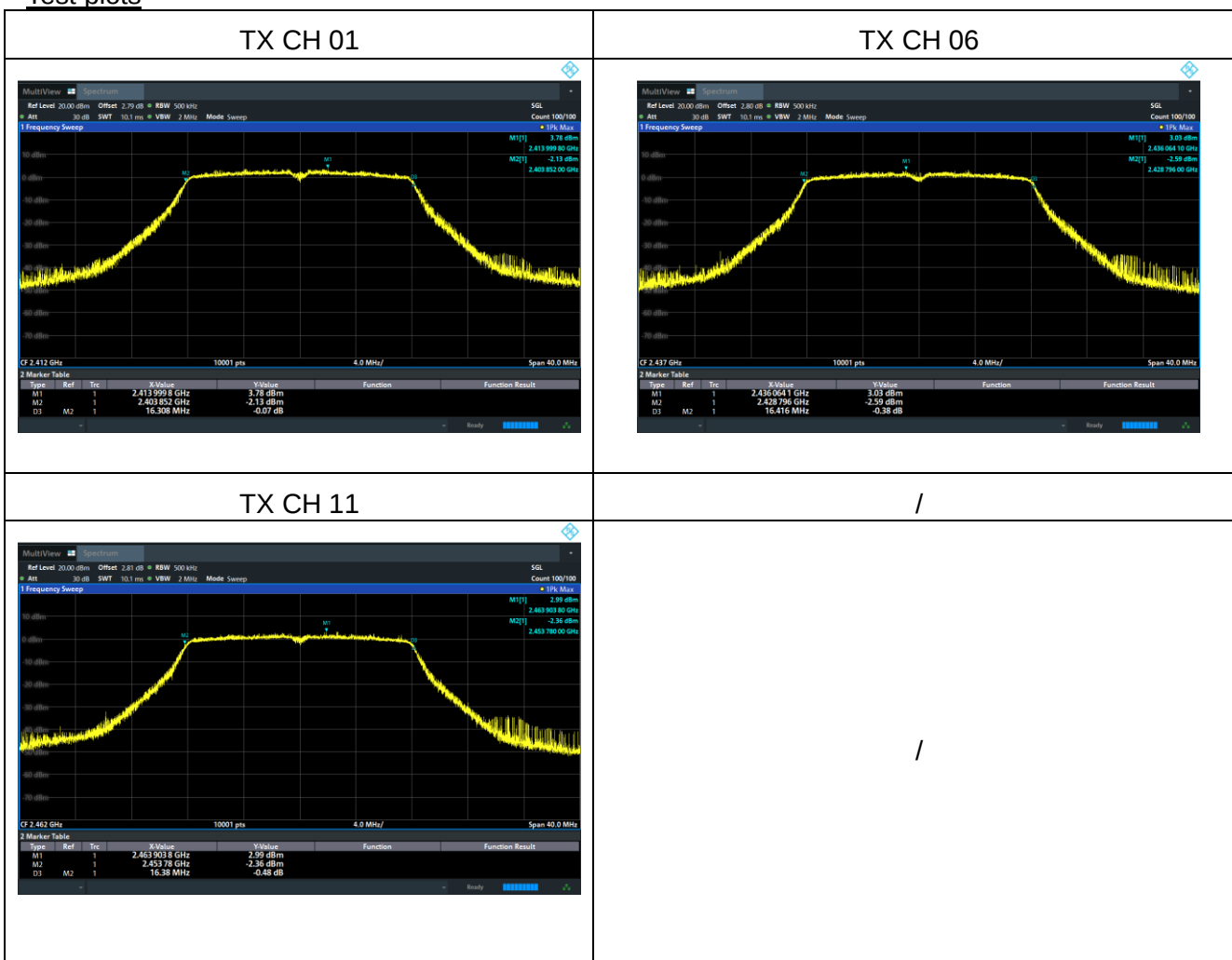
Test plots



EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 1 TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	16.308	500	Pass
CH06	2437	16.416	500	Pass
CH11	2462	16.38	500	Pass

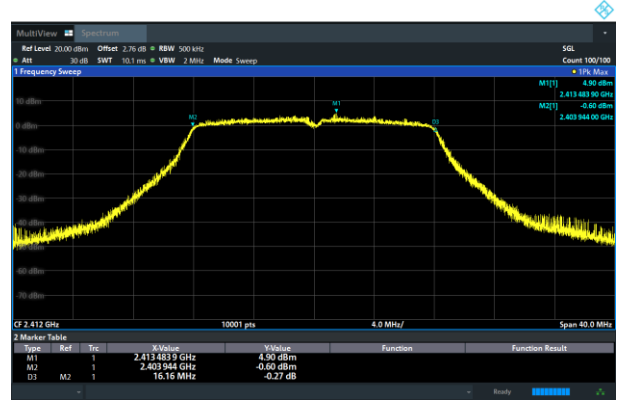
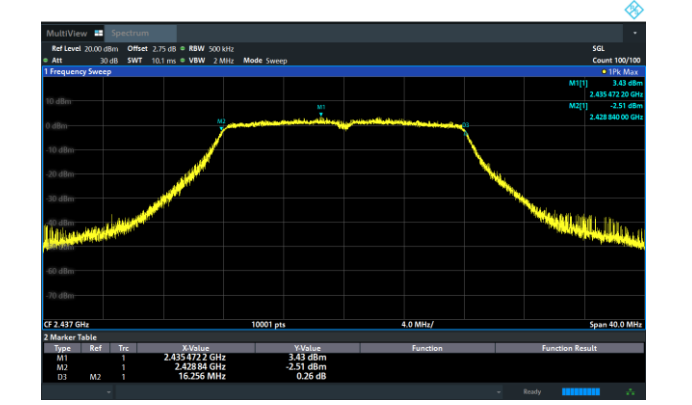
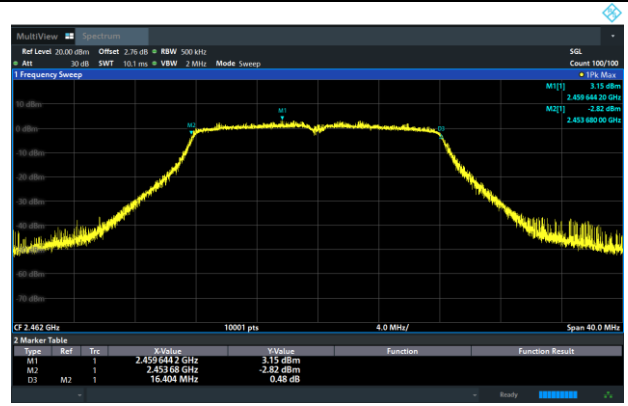
Test plots



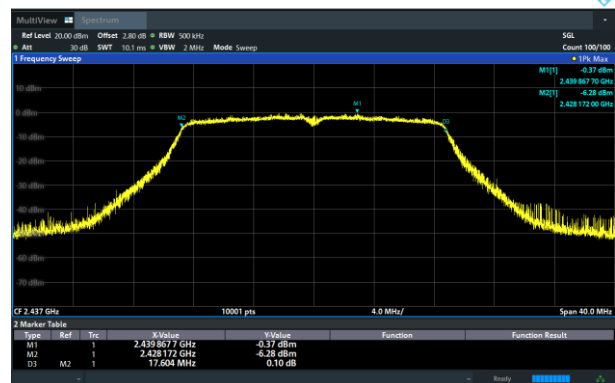
EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 2 TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	16.16	500	Pass
CH06	2437	16.256	500	Pass
CH11	2462	16.404	500	Pass

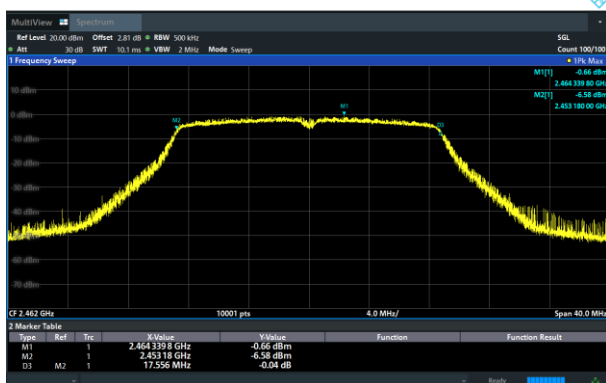
Test plots

TX CH 01 	TX CH 06 
TX CH 11 	/ /

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	17.548	500	Pass
CH06	2437	17.604	500	Pass
CH11	2462	17.556	500	Pass

[illegible]

1

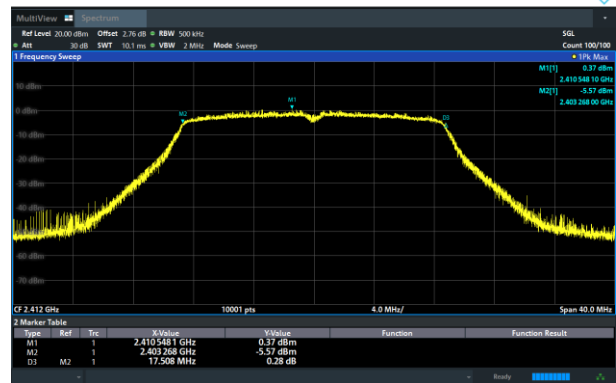
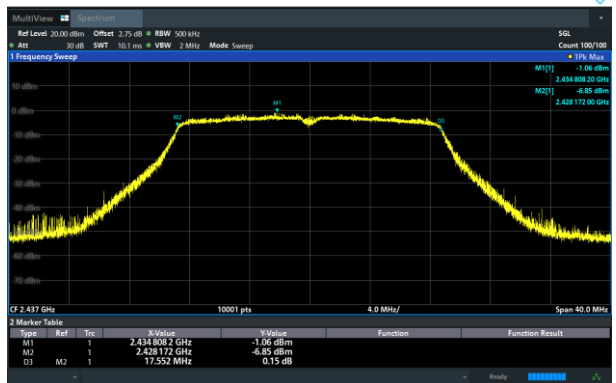
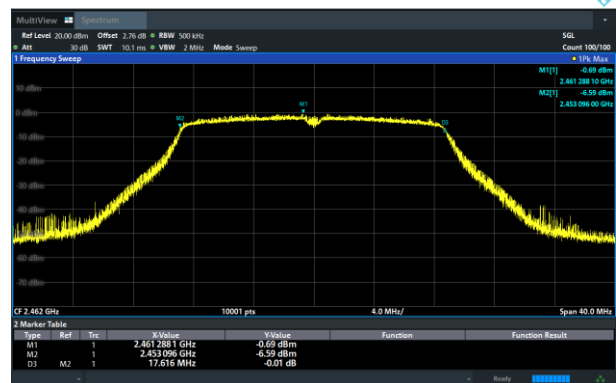


1

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 2 TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	17.508	500	Pass
CH06	2437	17.552	500	Pass
CH11	2462	17.616	500	Pass

Test plots

TX CH 01 	TX CH 06 
TX CH 11 	/ /

EUT:	ST MAX	Model Name:	SKYTRAK MAX
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	ANT 1 TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH03	2422	36.2	500	Pass
CH06	2437	36.128	500	Pass
CH09	2452	36.424	500	Pass

Test plots

