

Test Report

Product: Smart Water Fountain

Trade Mark: N/A

Model Number: PW1

FCC ID: 2AG7C-PET8

Prepared for

Hangzhou Meari Technology Co., Ltd.

Building 4,Huiding Intelligent Innovation Center,No. 825,Ruquan
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's Name..... : Hangzhou Meari Technology Co., Ltd.
Building 4,Huiding Intelligent Innovation Center,No. 825,Ruquan
Address : Road,Changhe Street,Binjiang District, Hangzhou,Zhejiang,
China

Manufacturer's Name : Hangzhou Meari Technology Co., Ltd.
Building 4,Huiding Intelligent Innovation Center,No. 825,Ruquan
Address : Road,Changhe Street,Binjiang District, Hangzhou,Zhejiang,
China

Product description

Product name : Smart Water Fountain

Model Number : PW1

Standards : FCC Part 15.247

IEEE/ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 +

Test procedure..... : Errata to C63.10a-2024

KDB 558074 D01 15.247 Meas Guidance v05r02

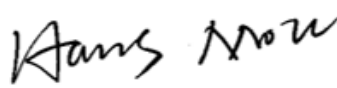
This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

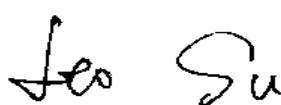
Date of Test

Date (s) of performance of tests..... : Sept. 17, 2026~Oct. 06, 2026

Test Result..... : **Pass**

Testing Engineer : 
(Z o e S u)

Technical Manager : 
(Hans Mou)

Authorized Signatory : 
(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Smart Water Fountain
Model name:	PW1
Series Model:	Pet 8, Pet 19, PWF1
Different of series model:	All the models are the same circuit and module, except the model No..
Operation frequency:	IEEE 802.11b/g/n/ax20: 2412-2462MHz
Modulation type:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/n/ax (HT20): OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM)
Bit Rate of transmitter:	IEEE 802.11b: 1/2/5.5/11Mbps IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps IEEE 802.11n(20MHz): MCS0-7, up to 72.2Mbps IEEE 802.11ax(20MHz): MCS0-11, up to 143.4Mbps
Antenna type:	Metal Antenna
Antenna gain:	2.76dBi
Max. output power:	24.79dBm
Hardware version:	PET8-BL616D-REV1_0
Software version:	V1.0
Battery:	DC 3.7V, 5200mAh, 19.24Wh
Power supply:	Input: 100-240V~ 50/60Hz, 0.2A Output: 5.0V=1.0A, 5.0W
Adapter information:	Model: DCT06W050100US-C1 Input: 100-240V~ 50/60Hz 200mA Output: 5.0V=1.0A Model: TPA-46B050100UU Input: 100-240V~ 50/60Hz 0.2A Output: 5.0V=1000mA

Note: both adapters were tested separately on the host, and the report only reflects the worst model: DCT06W050100US-C1 adapter data.

1.2 Test Mode

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

Channel	Channel	Frequency (MHz)
Low	01	2412
Middle	06	2437
High	11	2462

Note: 802. 11ax mode only support full resource unit size.

1.3 Operation Channel list

Channel List for 802.11b/g/n/ax(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	\	\

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		BLDevCube	
Mode	802.11b/g	802.11n/ax20	
Parameters	Default	Default	
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.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0002411	Honor Terminal Co., Ltd.

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

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203	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
Designation Number:	848916
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	
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	$\pm 3\%$	

PSD	± 2.02 dB	
Duty Cycle	± 3.92 %	
Temperature	± 1 degree	
Humidity	± 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	2026-04-25	2028-04-24
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2026-04-25	2028-04-24
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2026-04-25	2028-04-24
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2026-04-27	2027-04-26
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2026-04-30	2027-04-29
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2026-04-28	2027-04-27
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	2026-04-30	2027-04-29
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-00245	2026-04-25	2028-04-24
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2026-04-28	2027-04-27
12	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2026-04-28	2027-04-27
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	2026-04-27	2027-04-26
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2026-04-27	2027-04-26
3	HB-E016	Absorb clamp	ZHINAN	ZN23201	*21066*	2026-04-29	2027-04-28
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2026-04-27	2027-04-26
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	100610	2026-04-27	2027-04-26
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date

1	HB-E041	MXG Anaio Signal Generator	Agilent	N5181A	MY47070421	2026-04-27	2027-04-26
2	HB-E042	WIDEBAND RADIO COMMUNICA TION TESTER	R&S	CMW500	132108	2026-04-27	2027-04-26
3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2026-04-28	2027-04-27
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2026-04-28	2027-04-27
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2026-04-28	2027-04-27
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2026-04-30	2027-04-29

Note:

1. The calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).
2. The instrument RF Control Box, numbered HB-E045, contains power meter.

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 Metal 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:

- the tighter limit applies at the band edges.
- 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.

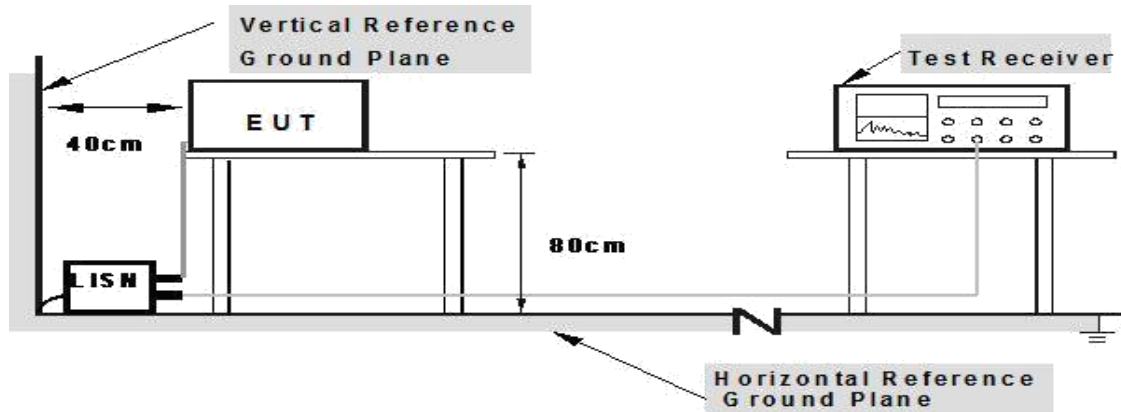
b) The following table is the setting of the receiver

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

- 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.
- 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.
- 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.
- LISN is at least 80 cm from nearest part of EUT chassis.

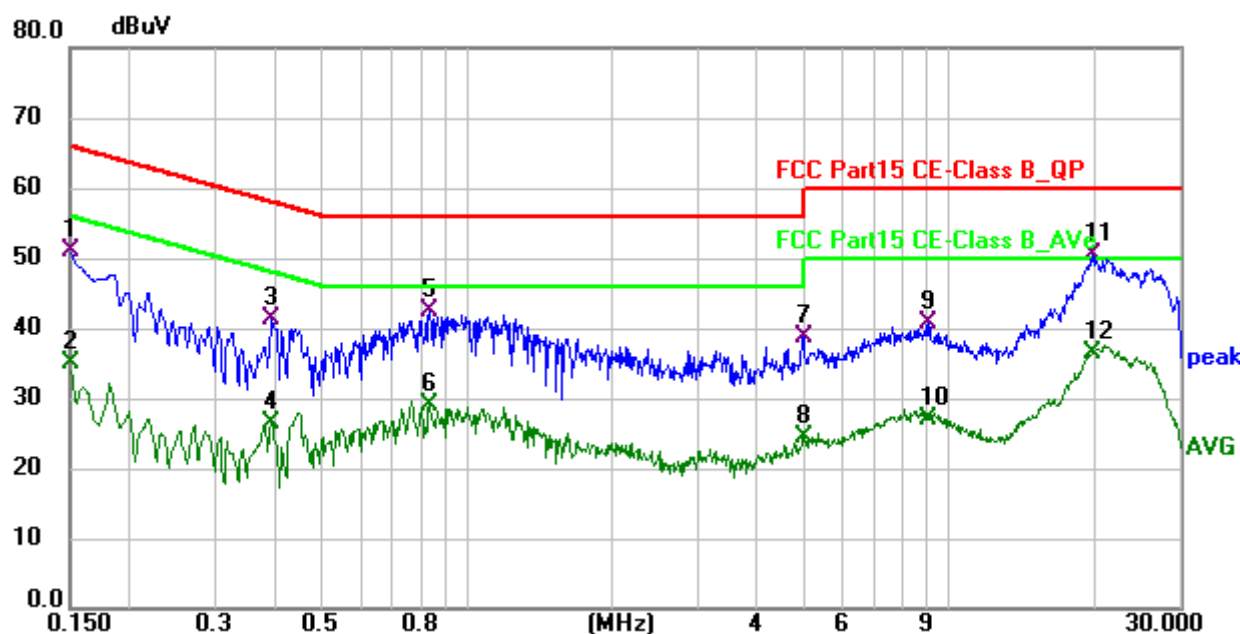
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



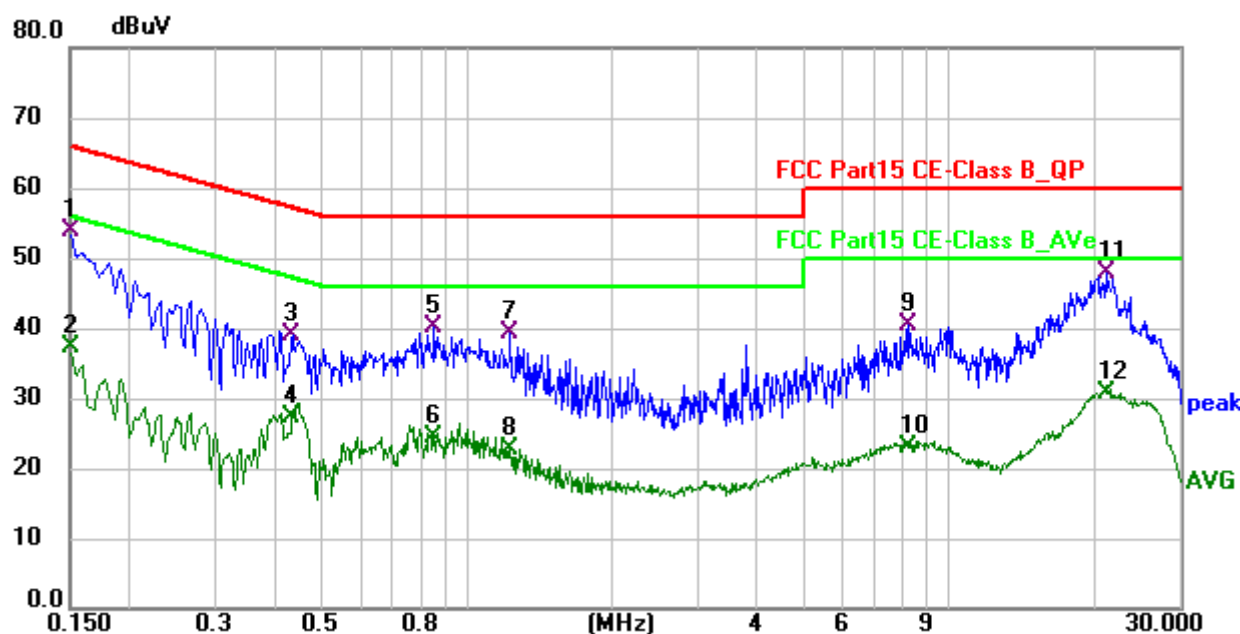
5.2.4 Test Result

EUT:	Smart Water Fountain	Model Name:	PW1
Test Mode:	Charging + TX	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	0.150	40.41	10.64	51.05	66.00	-14.95	QP
2	0.150	24.26	10.64	34.90	56.00	-21.10	AVG
3	0.393	30.56	10.59	41.15	58.00	-16.85	QP
4	0.393	15.75	10.59	26.34	48.00	-21.66	AVG
5	0.839	31.69	10.60	42.29	56.00	-13.71	QP
6	0.839	18.51	10.60	29.11	46.00	-16.89	AVG
7	4.983	27.73	11.09	38.82	56.00	-17.18	QP
8	4.983	13.40	11.09	24.49	46.00	-21.51	AVG
9	9.069	28.98	11.74	40.72	60.00	-19.28	QP
10	9.069	15.25	11.74	26.99	50.00	-23.01	AVG
11 *	19.788	36.23	14.26	50.49	60.00	-9.51	QP
12	19.788	22.07	14.26	36.33	50.00	-13.67	AVG

EUT:	Smart Water Fountain	Model Name:	PW1
Test Mode:	Charging + TX	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 *	0.150	43.29	10.66	53.95	66.00	-12.05	QP
2	0.150	26.51	10.66	37.17	56.00	-18.83	AVG
3	0.433	28.34	10.62	38.96	57.19	-18.23	QP
4	0.433	16.72	10.62	27.34	47.19	-19.85	AVG
5	0.857	29.51	10.63	40.14	56.00	-15.86	QP
6	0.857	13.91	10.63	24.54	46.00	-21.46	AVG
7	1.230	28.46	10.71	39.17	56.00	-16.83	QP
8	1.230	11.95	10.71	22.66	46.00	-23.34	AVG
9	8.227	28.88	11.59	40.47	60.00	-19.53	QP
10	8.227	11.51	11.59	23.10	50.00	-26.90	AVG
11	21.340	33.32	14.59	47.91	60.00	-12.09	QP
12	21.340	16.21	14.59	30.80	50.00	-19.20	AVG

5.3 Radiated Emission

5.3.1 Limits

Frequencies (MHz)	Field Strength (micровolts/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

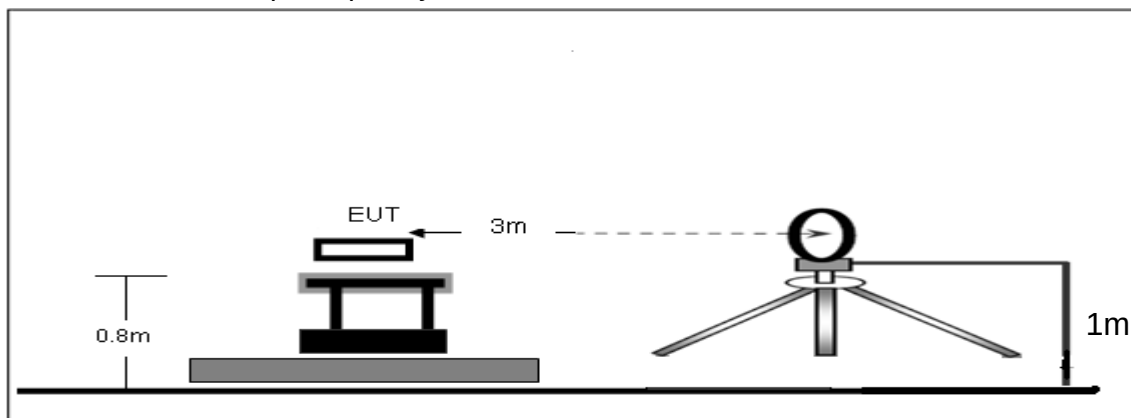
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

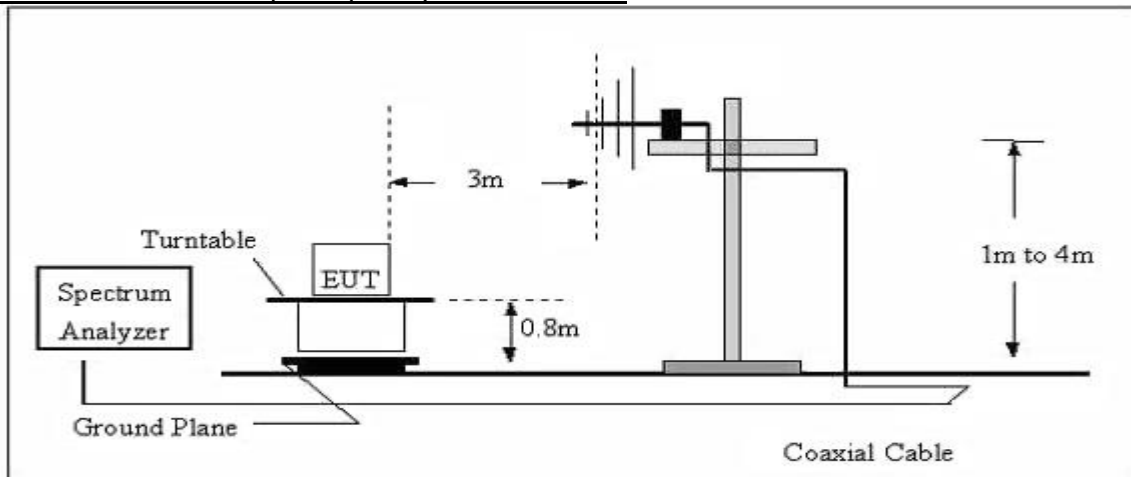
- The radiated emission tests were performed in the 3 meters.
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- The height of the test antenna 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

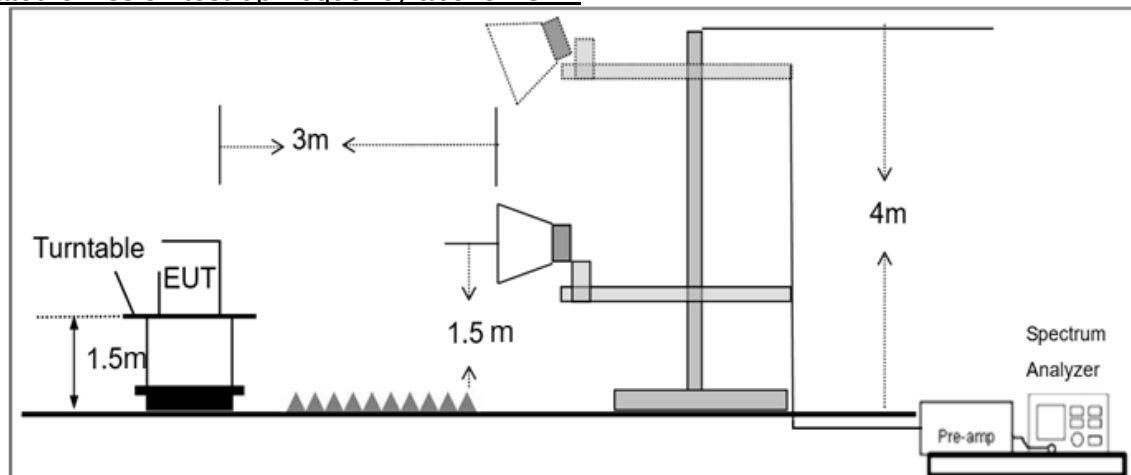
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX	Polarization:	--

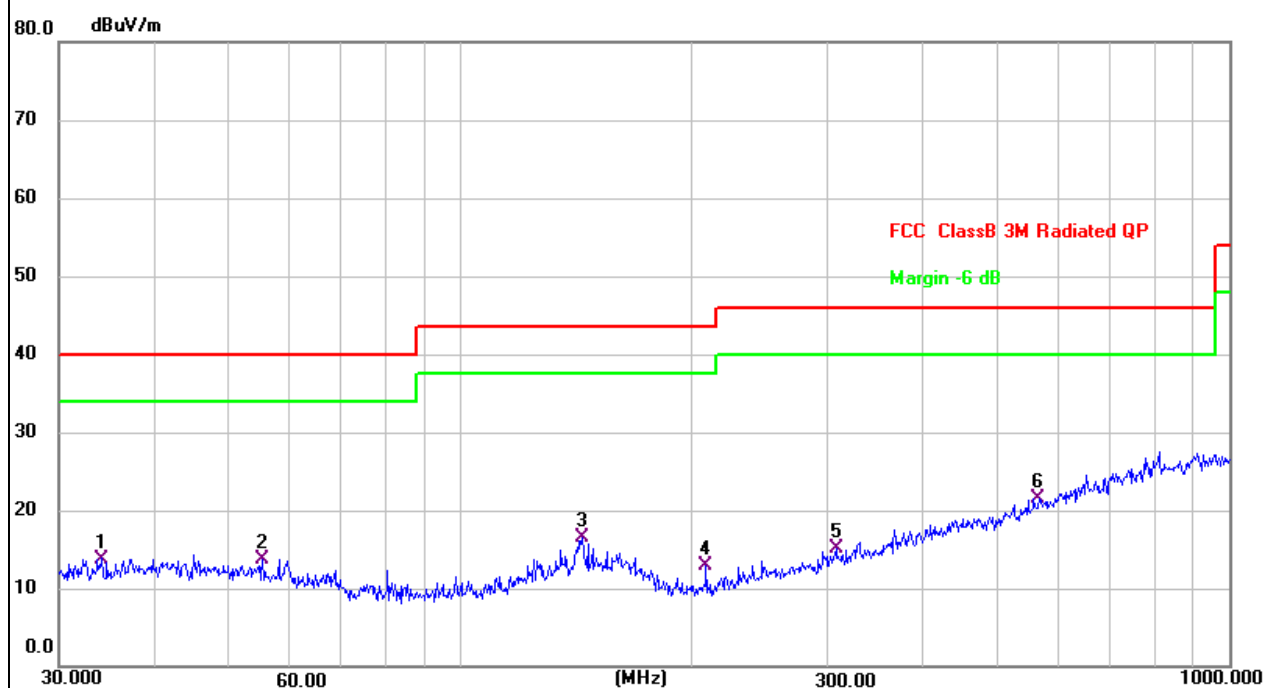
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

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.

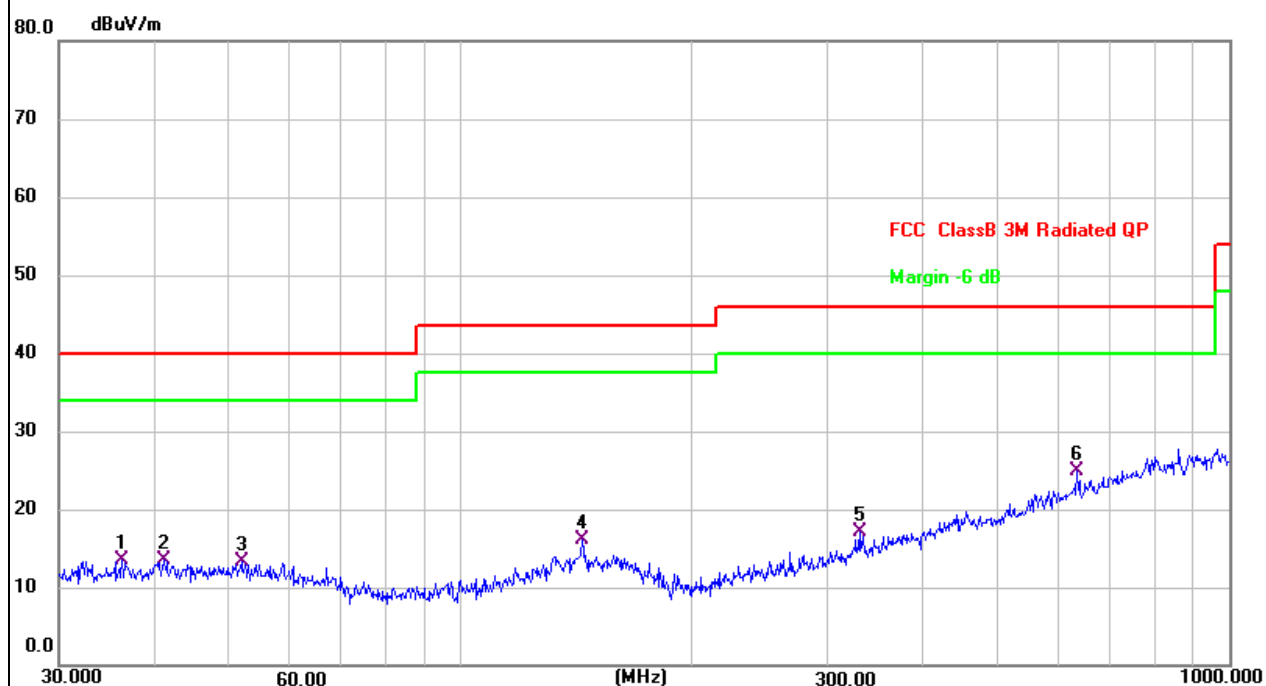
Frequency range (30MHz – 1GHz)

EUT:	Smart Water Fountain	Model Name:	PW1
Test Mode:	TX(802.11g, 2412MHz)	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	34.1559	29.56	-15.76	13.80	40.00	-26.20	QP
2	55.2207	29.17	-15.43	13.74	40.00	-26.26	QP
3	143.8294	30.85	-14.32	16.53	43.50	-26.97	QP
4	208.5801	30.63	-17.74	12.89	43.50	-30.61	QP
5	307.8312	28.92	-13.81	15.11	46.00	-30.89	QP
6 *	566.6221	27.82	-6.24	21.58	46.00	-24.42	QP

EUT:	Smart Water Fountain	Model Name:	PW1
Test Mode:	TX(802.11g, 2412MHz)	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	36.2540	28.59	-15.13	13.46	40.00	-26.54	QP
2	41.1320	28.49	-14.94	13.55	40.00	-26.45	QP
3	51.8430	28.48	-15.17	13.31	40.00	-26.69	QP
4	143.8295	30.42	-14.32	16.10	43.50	-27.40	QP
5	330.1948	29.90	-12.84	17.06	46.00	-28.94	QP
6 *	633.9073	29.28	-4.42	24.86	46.00	-21.14	QP

Frequency range (1GHz-25GHz)

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)--Above 1G									
4824.847	43.54	4.83	33.6	30.80	51.17	74.00	-22.83	Pk	Vertical
4825.702	31.94	4.83	33.6	30.80	39.57	54.00	-14.43	AV	Vertical
7236.480	42.28	5.85	37.45	31.50	54.08	74.00	-19.92	Pk	Vertical
7237.811	32.25	5.85	37.45	31.50	44.05	54.00	-9.95	AV	Vertical
4824.384	43.30	4.83	33.6	30.80	50.93	74.00	-23.07	Pk	Horizontal
4825.594	31.98	4.83	33.6	30.80	39.61	54.00	-14.39	AV	Horizontal
7237.071	43.39	5.85	37.45	31.50	55.19	74.00	-18.81	Pk	Horizontal
7236.481	32.23	5.85	37.45	31.50	44.03	54.00	-9.97	AV	Horizontal
Middle Channel (2437 MHz)--Above 1G									
4874.061	42.54	4.88	33.75	30.80	50.37	74.00	-23.63	Pk	Vertical
4874.850	32.01	4.88	33.75	30.80	39.84	54.00	-14.16	AV	Vertical
7311.508	44.52	5.90	38.10	31.59	56.93	74.00	-17.07	Pk	Vertical
7311.190	32.64	5.90	38.10	31.59	45.05	54.00	-8.95	AV	Vertical
4874.298	43.82	4.88	33.75	30.80	51.65	74.00	-22.35	Pk	Horizontal
4875.783	31.91	4.88	33.75	30.80	39.74	54.00	-14.26	AV	Horizontal
7312.777	44.17	5.90	38.10	31.59	56.58	74.00	-17.42	Pk	Horizontal
7312.526	32.65	5.90	38.10	31.59	45.06	54.00	-8.94	AV	Horizontal
High Channel (2462 MHz)--Above 1G									
4924.517	43.28	4.93	34.04	30.08	52.17	74.00	-21.83	Pk	Vertical
4925.246	32.17	4.93	34.04	30.08	41.06	54.00	-12.94	AV	Vertical
7386.060	43.49	6.01	37.90	31.74	55.66	74.00	-18.34	Pk	Vertical
7387.877	32.49	6.01	37.90	31.74	44.66	54.00	-9.34	AV	Vertical
4924.255	44.26	4.93	34.04	30.08	53.15	74.00	-20.85	Pk	Horizontal
4925.364	32.05	4.93	34.04	30.08	40.94	54.00	-13.06	AV	Horizontal
7386.932	43.59	6.01	37.90	31.74	55.76	74.00	-18.24	Pk	Horizontal
7386.424	32.42	6.01	37.90	31.74	44.59	54.00	-9.41	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 modes have been tested, and only the worst mode 802.11g in the report.

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									
2310.00	45.93	3.40	27.80	32.41	44.72	74	-29.28	Pk	Horizontal
2310.00	33.56	3.40	27.80	32.41	32.35	54	-21.65	AV	Horizontal
2310.00	44.69	3.40	27.80	32.41	43.48	74	-30.52	Pk	Vertical
2310.00	33.67	3.40	27.80	32.41	32.46	54	-21.54	AV	Vertical
2390.00	45.58	3.45	27.70	32.49	44.24	74	-29.76	Pk	Vertical
2390.00	34.44	3.45	27.70	32.49	33.10	54	-20.90	AV	Vertical
2390.00	46.13	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.62	3.45	27.70	32.49	33.28	54	-20.72	AV	Horizontal
2400.00	46.65	3.46	27.80	32.54	45.37	74	-28.63	Pk	Vertical
2400.00	34.36	3.46	27.80	32.54	33.08	54	-20.92	AV	Vertical
2400.00	45.93	3.46	27.80	32.54	44.65	74	-29.35	Pk	Horizontal
2400.00	34.50	3.46	27.80	32.54	33.22	54	-20.78	AV	Horizontal
2483.50	47.07	3.48	28.53	32.55	46.53	74	-27.47	Pk	Vertical
2483.50	34.08	3.48	28.53	32.55	33.54	54	-20.46	AV	Vertical
2483.50	46.29	3.48	28.53	32.55	45.75	74	-28.25	Pk	Horizontal
2483.50	33.72	3.48	28.53	32.55	33.18	54	-20.82	AV	Horizontal
2500.00	45.42	3.49	29.20	32.66	45.45	74	-28.55	Pk	Vertical
2500.00	33.74	3.49	29.20	32.66	33.77	54	-20.23	AV	Vertical
2500.00	45.28	3.49	29.20	32.66	45.31	74	-28.69	Pk	Horizontal
2500.00	33.82	3.49	29.20	32.66	33.85	54	-20.15	AV	Horizontal
802.11g									
2310.00	46.04	3.40	27.80	32.41	44.83	74	-29.17	Pk	Horizontal
2310.00	33.34	3.40	27.80	32.41	32.13	54	-21.87	AV	Horizontal
2310.00	44.70	3.40	27.80	32.41	43.49	74	-30.51	Pk	Vertical
2310.00	33.65	3.40	27.80	32.41	32.44	54	-21.56	AV	Vertical
2390.00	45.58	3.45	27.70	32.49	44.24	74	-29.76	Pk	Vertical
2390.00	34.57	3.45	27.70	32.49	33.23	54	-20.77	AV	Vertical
2390.00	46.36	3.45	27.70	32.49	45.02	74	-28.98	Pk	Horizontal
2390.00	34.39	3.45	27.70	32.49	33.05	54	-20.95	AV	Horizontal
2400.00	46.78	3.46	27.80	32.54	45.50	74	-28.50	Pk	Vertical
2400.00	34.60	3.46	27.80	32.54	33.32	54	-20.68	AV	Vertical
2400.00	45.90	3.46	27.80	32.54	44.62	74	-29.38	Pk	Horizontal
2400.00	34.48	3.46	27.80	32.54	33.20	54	-20.80	AV	Horizontal
2483.50	47.15	3.48	28.53	32.55	46.61	74	-27.39	Pk	Vertical
2483.50	34.10	3.48	28.53	32.55	33.56	54	-20.44	AV	Vertical

2483.50	46.24	3.48	28.53	32.55	45.70	74	-28.30	Pk	Horizontal
2483.50	33.73	3.48	28.53	32.55	33.19	54	-20.81	AV	Horizontal
2500.00	45.41	3.49	29.20	32.66	45.44	74	-28.56	Pk	Vertical
2500.00	33.85	3.49	29.20	32.66	33.88	54	-20.12	AV	Vertical
2500.00	45.34	3.49	29.20	32.66	45.37	74	-28.63	Pk	Horizontal
2500.00	33.87	3.49	29.20	32.66	33.90	54	-20.10	AV	Horizontal
802.11n20									
2310.00	45.95	3.40	27.80	32.41	44.74	74	-29.26	Pk	Horizontal
2310.00	33.55	3.40	27.80	32.41	32.34	54	-21.66	AV	Horizontal
2310.00	44.75	3.40	27.80	32.41	43.54	74	-30.46	Pk	Vertical
2310.00	33.44	3.40	27.80	32.41	32.23	54	-21.77	AV	Vertical
2390.00	45.50	3.45	27.70	32.49	44.16	74	-29.84	Pk	Vertical
2390.00	34.45	3.45	27.70	32.49	33.11	54	-20.89	AV	Vertical
2390.00	46.24	3.45	27.70	32.49	44.90	74	-29.10	Pk	Horizontal
2390.00	34.45	3.45	27.70	32.49	33.11	54	-20.89	AV	Horizontal
2400.00	46.67	3.46	27.80	32.54	45.39	74	-28.61	Pk	Vertical
2400.00	34.57	3.46	27.80	32.54	33.29	54	-20.71	AV	Vertical
2400.00	46.06	3.46	27.80	32.54	44.78	74	-29.22	Pk	Horizontal
2400.00	34.54	3.46	27.80	32.54	33.26	54	-20.74	AV	Horizontal
2483.50	47.33	3.48	28.53	32.55	46.79	74	-27.21	Pk	Vertical
2483.50	34.05	3.48	28.53	32.55	33.51	54	-20.49	AV	Vertical
2483.50	46.34	3.48	28.53	32.55	45.80	74	-28.20	Pk	Horizontal
2483.50	33.71	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.43	3.49	29.20	32.66	45.46	74	-28.54	Pk	Vertical
2500.00	33.97	3.49	29.20	32.66	34.00	54	-20.00	AV	Vertical
2500.00	45.21	3.49	29.20	32.66	45.24	74	-28.76	Pk	Horizontal
2500.00	33.75	3.49	29.20	32.66	33.78	54	-20.22	AV	Horizontal
802.11ax20									
2310.00	46.07	3.40	27.80	32.41	44.86	74	-29.14	Pk	Horizontal
2310.00	33.53	3.40	27.80	32.41	32.32	54	-21.68	AV	Horizontal
2310.00	44.73	3.40	27.80	32.41	43.52	74	-30.48	Pk	Vertical
2310.00	33.68	3.40	27.80	32.41	32.47	54	-21.53	AV	Vertical
2390.00	45.71	3.45	27.70	32.49	44.37	74	-29.63	Pk	Vertical
2390.00	34.53	3.45	27.70	32.49	33.19	54	-20.81	AV	Vertical
2390.00	46.24	3.45	27.70	32.49	44.90	74	-29.10	Pk	Horizontal
2390.00	34.53	3.45	27.70	32.49	33.19	54	-20.81	AV	Horizontal
2400.00	46.57	3.46	27.80	32.54	45.29	74	-28.71	Pk	Vertical
2400.00	34.35	3.46	27.80	32.54	33.07	54	-20.93	AV	Vertical
2400.00	45.95	3.46	27.80	32.54	44.67	74	-29.33	Pk	Horizontal
2400.00	34.40	3.46	27.80	32.54	33.12	54	-20.88	AV	Horizontal
2483.50	47.22	3.48	28.53	32.55	46.68	74	-27.32	Pk	Vertical

2483.50	33.97	3.48	28.53	32.55	33.43	54	-20.57	AV	Vertical
2483.50	46.32	3.48	28.53	32.55	45.78	74	-28.22	Pk	Horizontal
2483.50	33.98	3.48	28.53	32.55	33.44	54	-20.56	AV	Horizontal
2500.00	45.37	3.49	29.20	32.66	45.40	74	-28.60	Pk	Vertical
2500.00	33.98	3.49	29.20	32.66	34.01	54	-19.99	AV	Vertical
2500.00	45.26	3.49	29.20	32.66	45.29	74	-28.71	Pk	Horizontal
2500.00	33.89	3.49	29.20	32.66	33.92	54	-20.08	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.

5.3.6 Spurious Emission in Restricted Band 1000MHz-25000MHz

All the modulation modes have been tested, and the worst result was report as below:

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
3260	44.20	3.89	30.04	32.85	45.28	74	-28.72	Pk	Vertical
3260	33.30	3.89	30.04	32.85	34.38	54	-19.62	AV	Vertical
3260	44.21	3.89	30.04	32.85	45.29	74	-28.71	Pk	Horizontal
3260	33.47	3.89	30.04	32.85	34.55	54	-19.45	AV	Horizontal
3332	43.22	5.00	34.03	31.00	51.25	74	-22.75	Pk	Vertical
3332	30.51	5.00	34.03	31.00	38.54	54	-15.46	AV	Vertical
3332	43.06	5.00	34.03	31.00	51.09	74	-22.91	Pk	Horizontal
3332	30.32	5.00	34.03	31.00	38.35	54	-15.65	AV	Horizontal
17797	44.85	8.46	39.30	31.30	61.31	74	-12.69	Pk	Vertical
17797	32.38	8.46	39.30	31.30	48.84	54	-5.16	AV	Vertical
17788	44.64	8.46	39.30	31.30	61.10	74	-12.90	Pk	Horizontal
17788	32.50	8.46	39.30	31.30	48.96	54	-5.04	AV	Horizontal

5.4 Peak Output Power

5.4.1 Limit

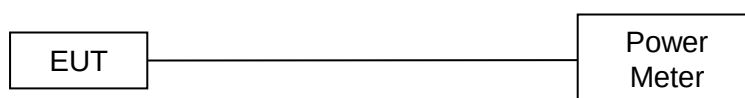
FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.4.2 Test Procedure

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:	Smart Water Fountain	Model Name:	PW1
Test Mode:	TX Mode	Test Voltage:	DC 3.7V from battery

802.11b

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	23.98	30
CH06	2437	24.01	30
CH11	2462	23.51	30

802.11g

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	24.79	30
CH06	2437	24.78	30
CH11	2462	24.28	30

802.11n20

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	23.82	30
CH06	2437	23.81	30
CH11	2462	23.32	30

802.11ax20

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	24.12	30
CH06	2437	24.23	30
CH11	2462	23.67	30

5.5 Power Spectral Density

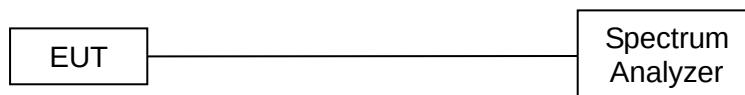
5.5.1 Limit

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

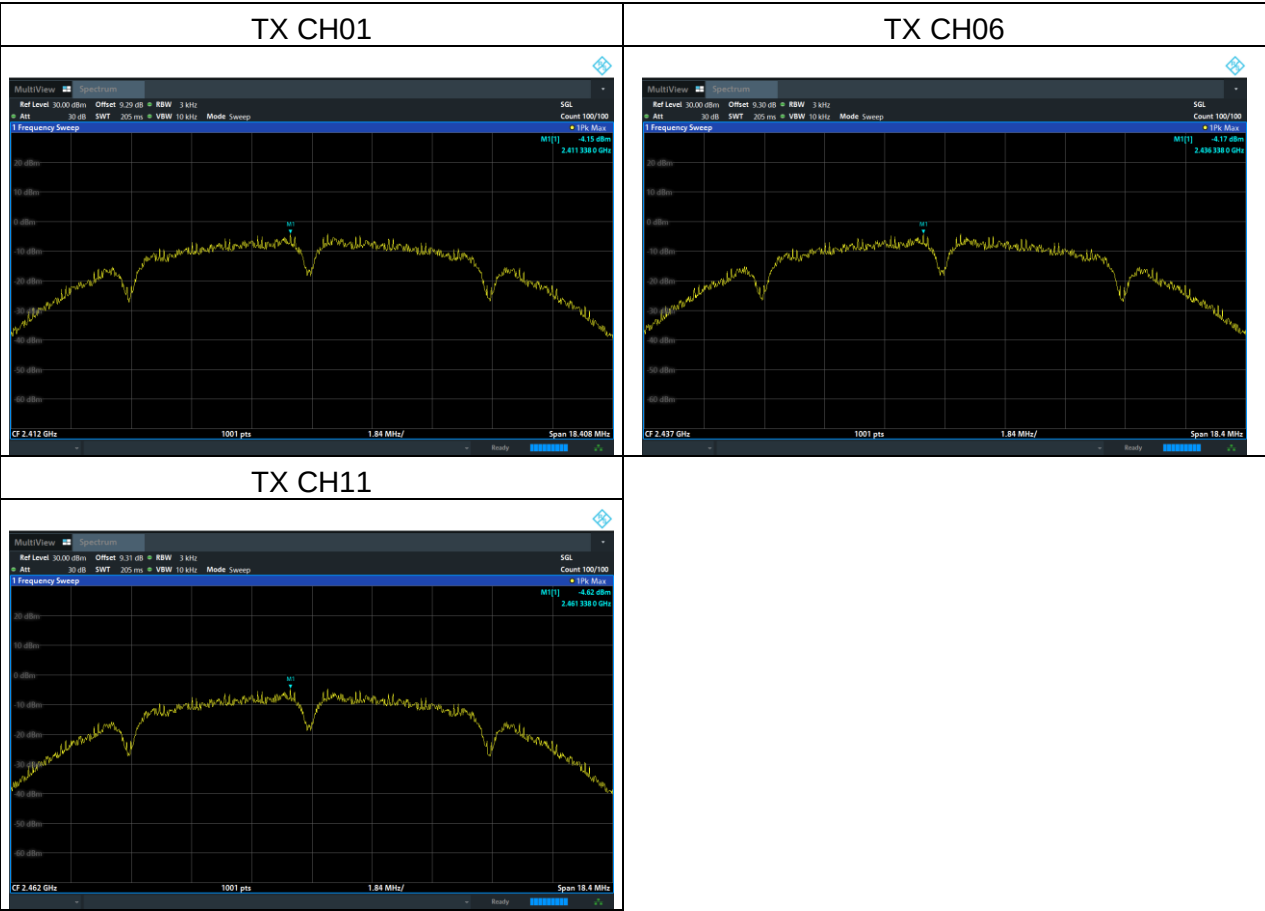
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the 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

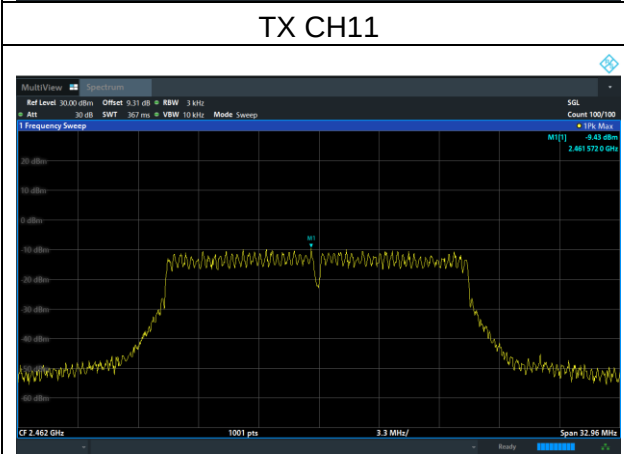
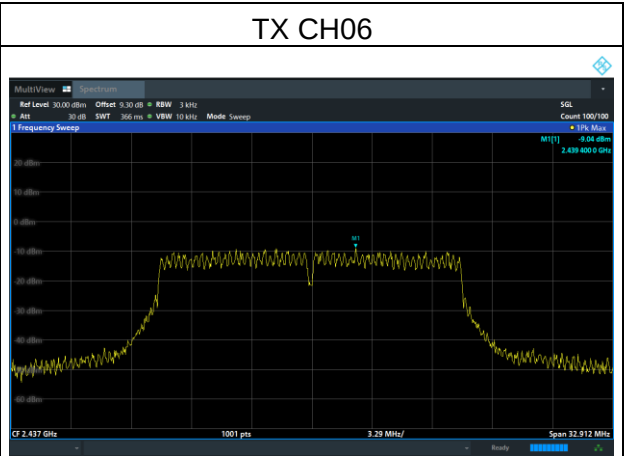
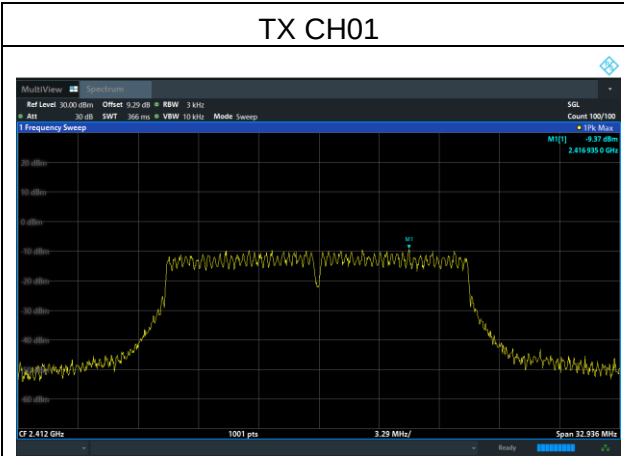


5.5.4 Test Results

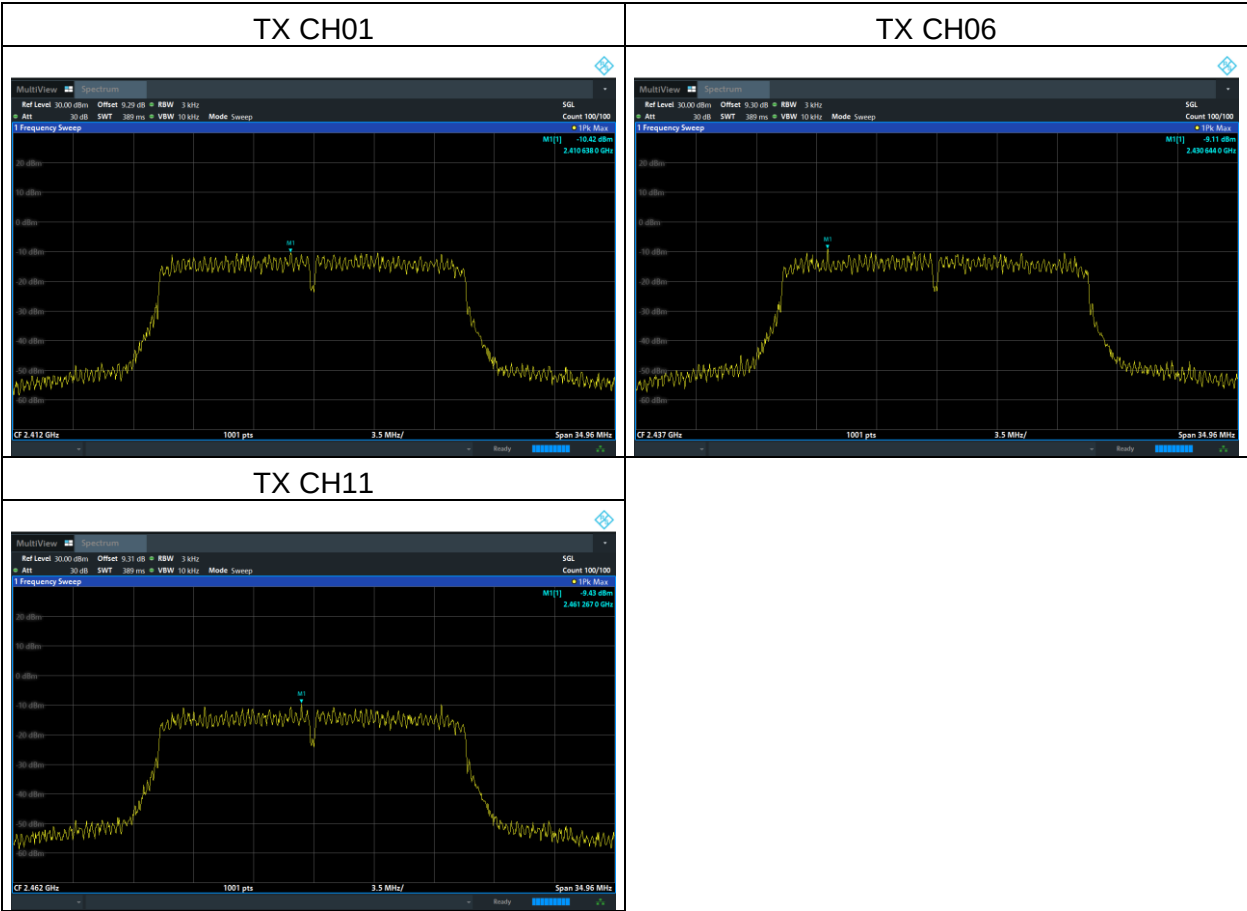
802.11b			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-4.15	8	Pass
2437 MHz	-4.17	8	Pass
2462 MHz	-4.62	8	Pass



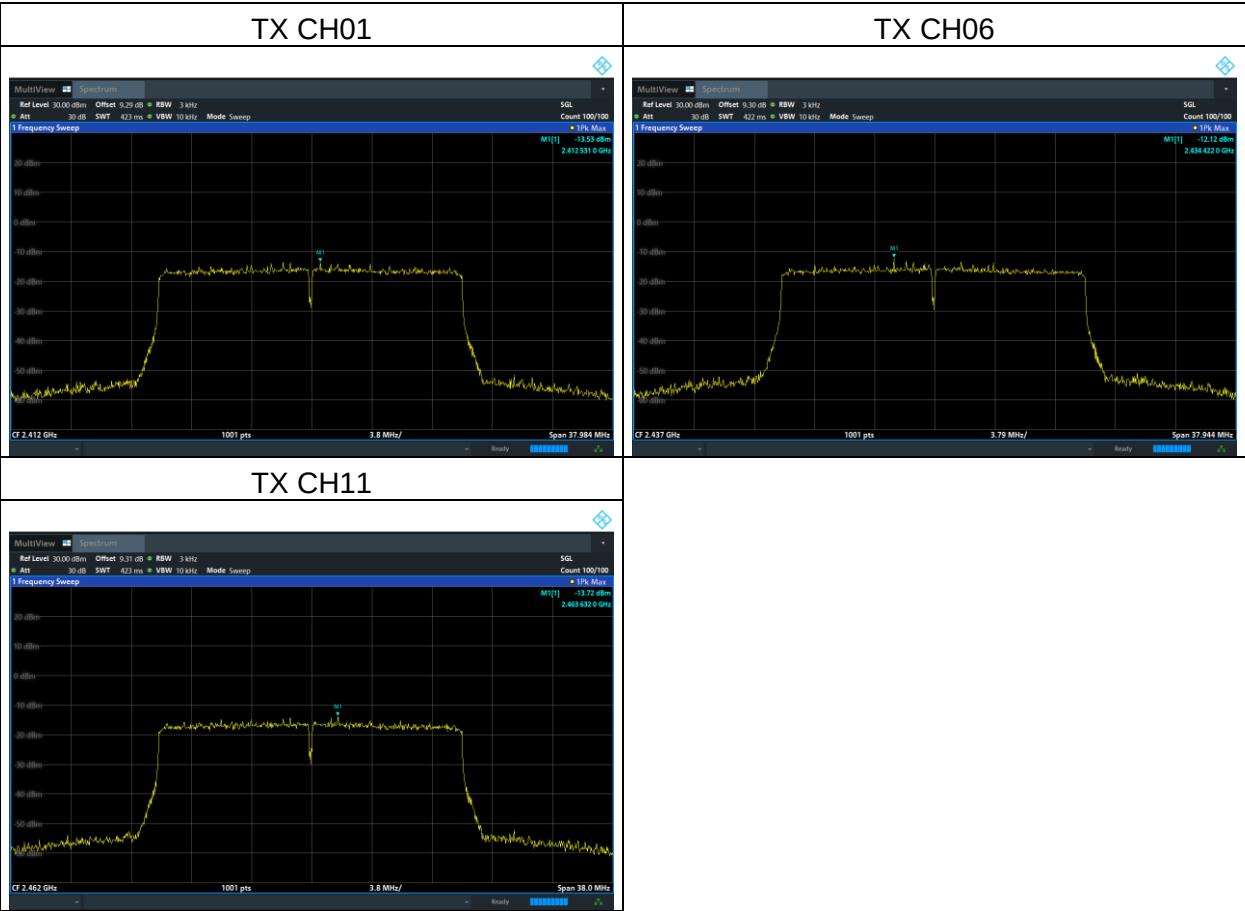
802.11g			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-9.37	8	Pass
2437 MHz	-9.04	8	Pass
2462 MHz	-9.43	8	Pass



802.11n20			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-10.42	8	Pass
2437 MHz	-9.11	8	Pass
2462 MHz	-9.43	8	Pass



802.11ax20			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-13.53	8	Pass
2437 MHz	-12.12	8	Pass
2462 MHz	-13.72	8	Pass



5.6 6dB Bandwidth

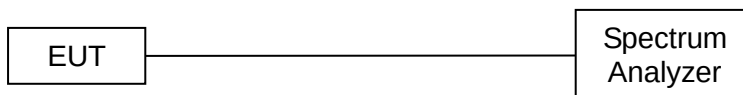
5.6.1 Limit

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

1. Set RBW= shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = No faster than coupled (auto) time.
6. Allow the trace to stabilize.
7. 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 6 dB relative to the maximum level measured in the fundamental emission.

5.6.3 Test Setup



5.6.4 Test Results

EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	9.204	500	Pass
CH06	2437	9.2	500	Pass
CH11	2462	9.2	500	Pass

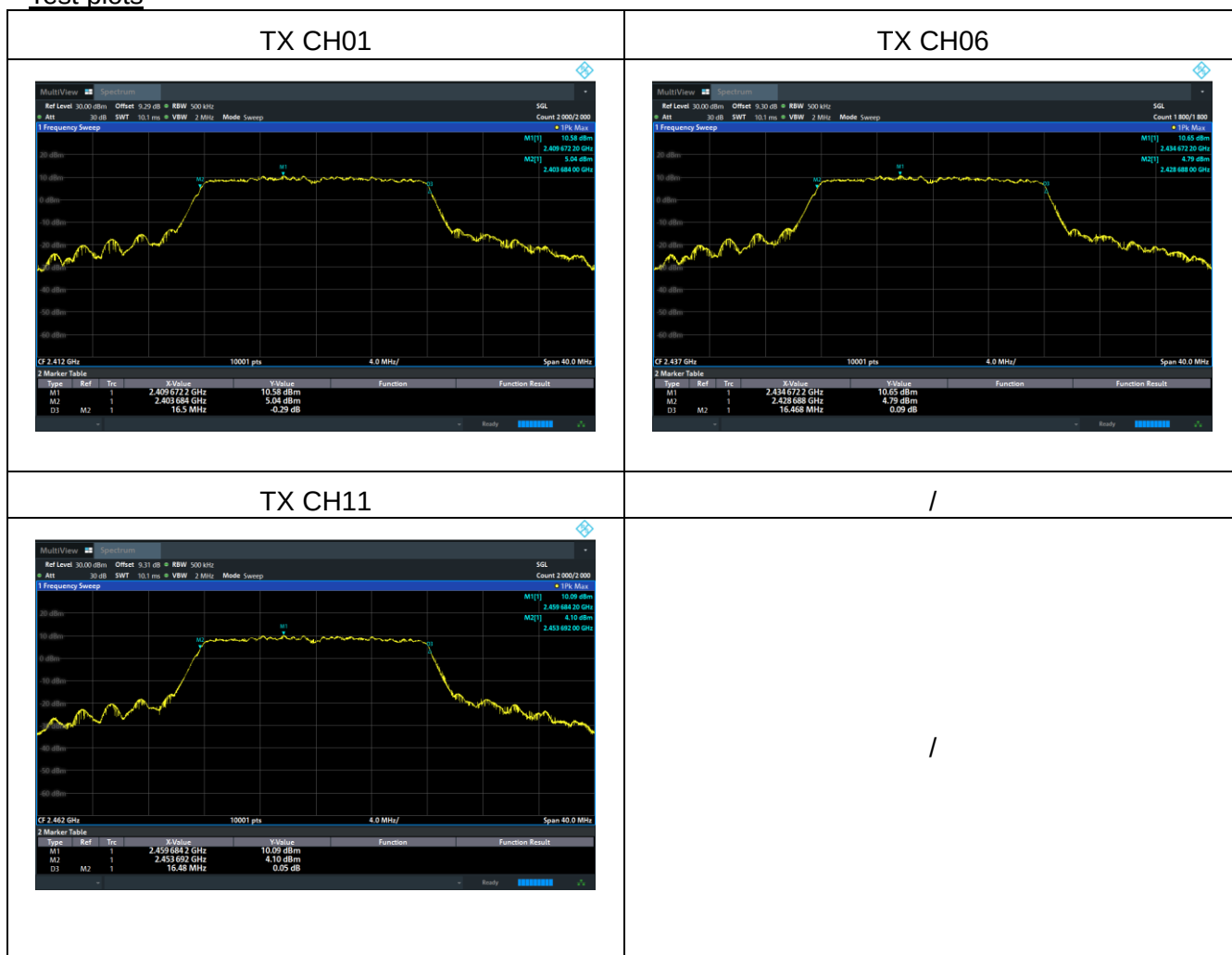
Test plots

TX CH01	TX CH06
TX CH11	/

EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1012 hPa	Test Voltage:	DC 5V from adapter AC 120V/60Hz
Test Mode:	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	16.5	500	Pass
CH06	2437	16.468	500	Pass
CH11	2462	16.48	500	Pass

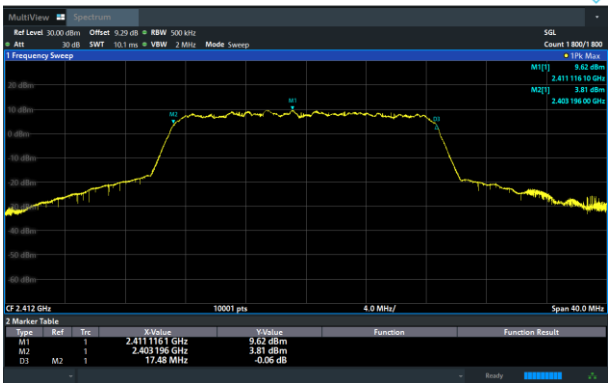
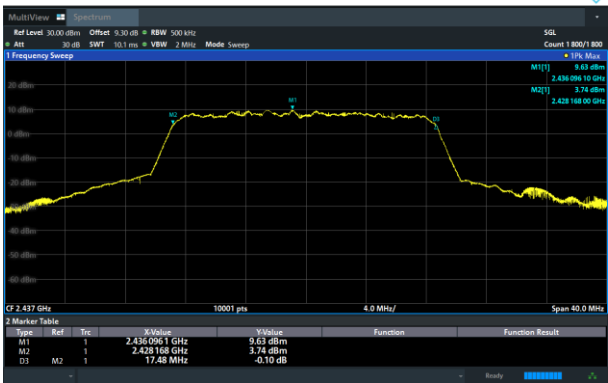
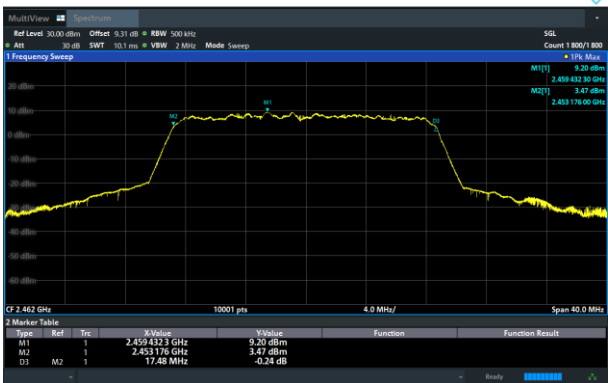
Test plots



EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1012 hPa	Test Voltage:	DC 5V from adapter AC 120V/60Hz
Test Mode:	TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	17.48	500	Pass
CH06	2437	17.48	500	Pass
CH11	2462	17.48	500	Pass

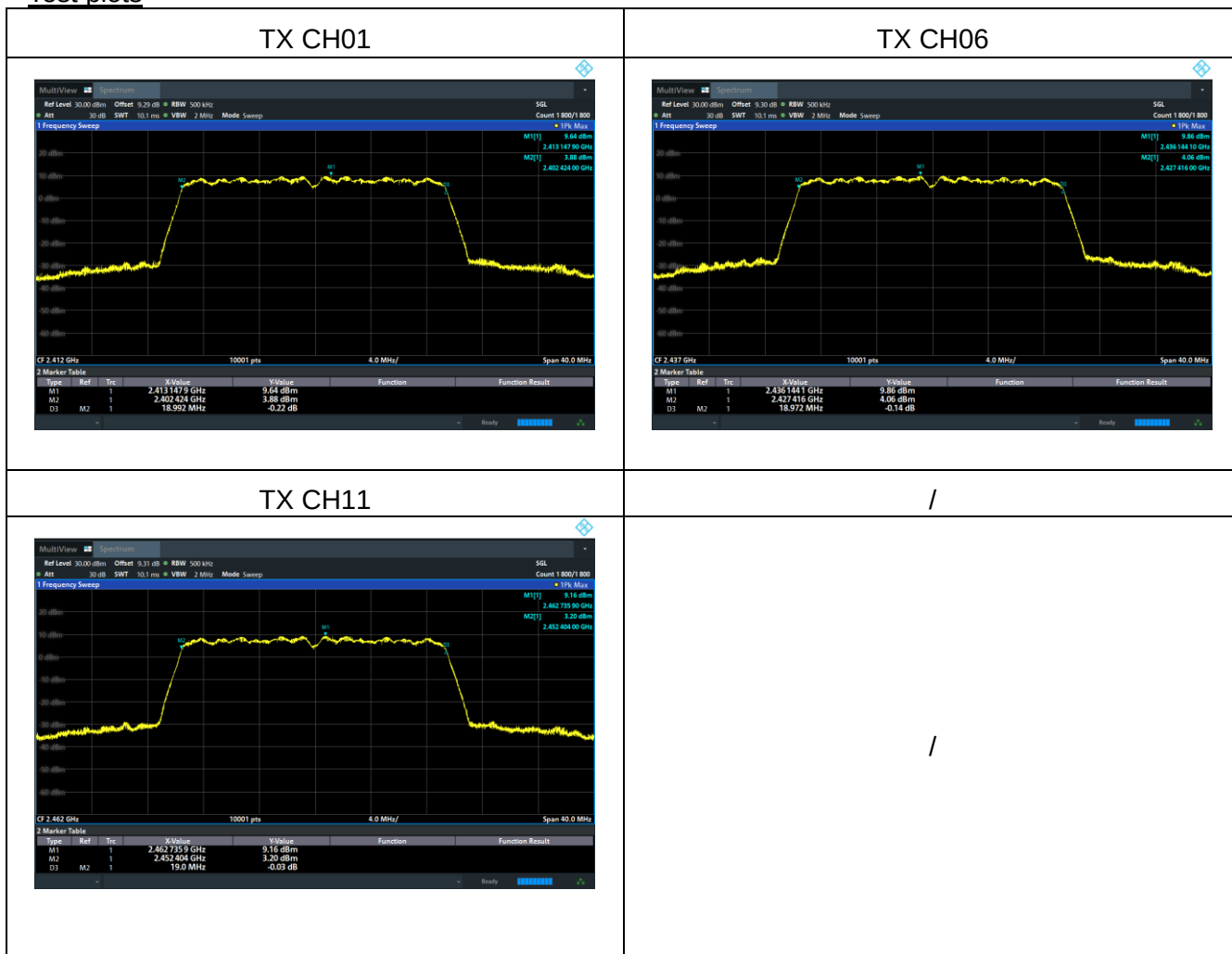
Test plots

TX CH01 	TX CH06 
TX CH11 	/

EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1012 hPa	Test Voltage:	DC 5V from adapter AC 120V/60Hz
Test Mode:	TX ax20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	18.992	500	Pass
CH06	2437	18.972	500	Pass
CH11	2462	19	500	Pass

Test plots



5.7 Duty Cycle

5.7.1 Limit

No limit requirement.

5.7.2 Test Procedure

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0(b) in KDB 558074 D01 DTS Meas Guidance v05r02.

The largest available value of RBW is 10 MHz and VBW is 10 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 10MHz (the largest available value)

VBW = 10MHz ($\geq$ RBW)

Number of points in Sweep > 100

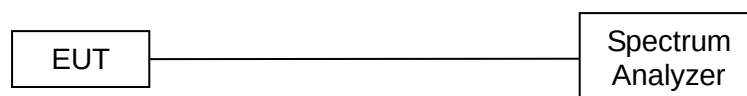
Detector function = peak

Trace = Clear write

Measure Total and Ton

Calculate Duty Cycle = $Ton / Total$

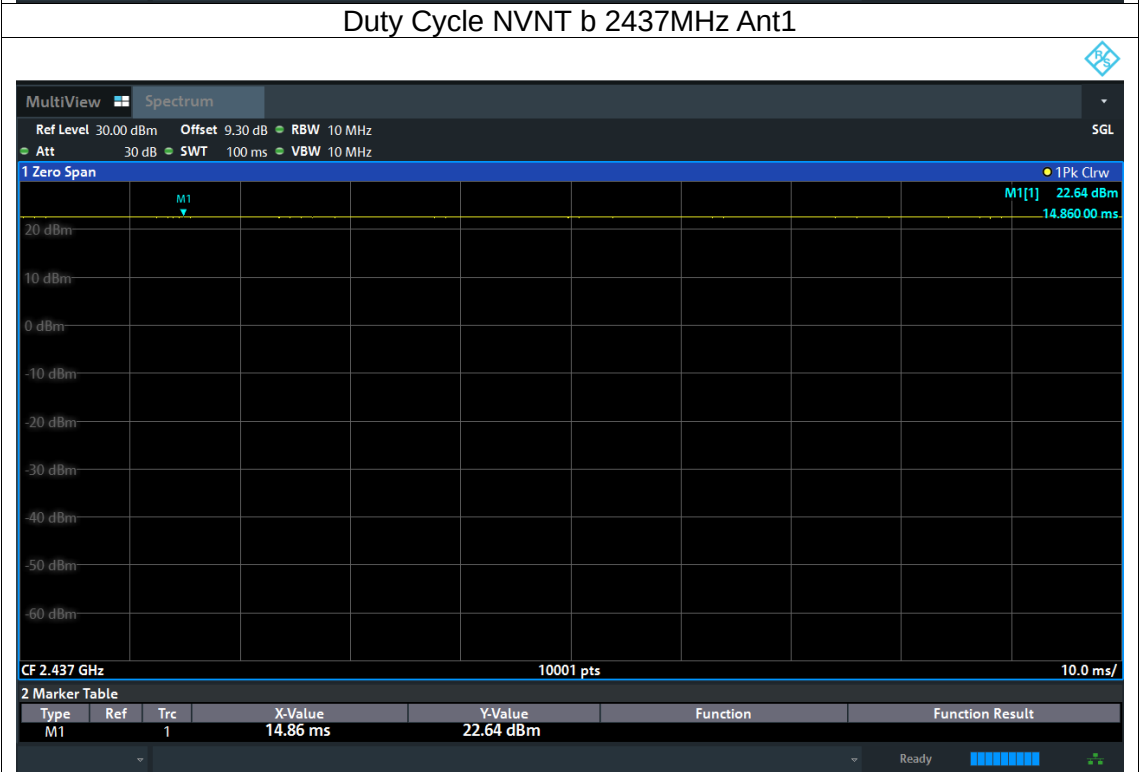
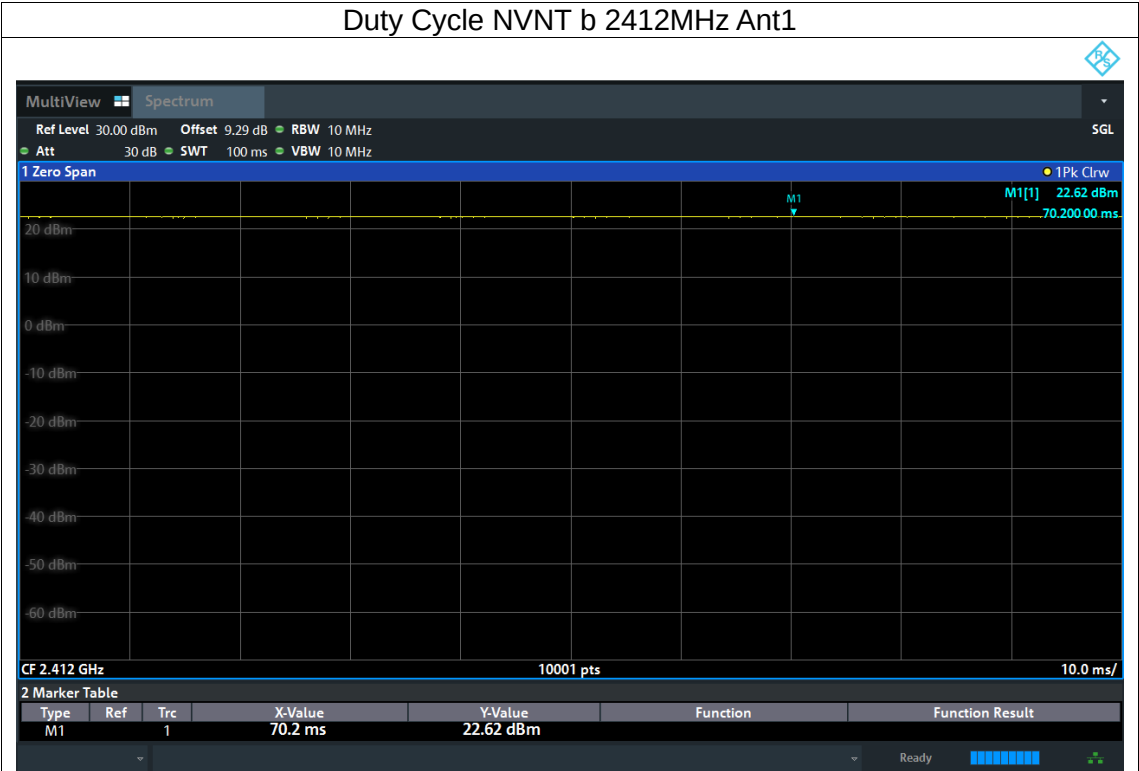
5.7.3 Test Setup

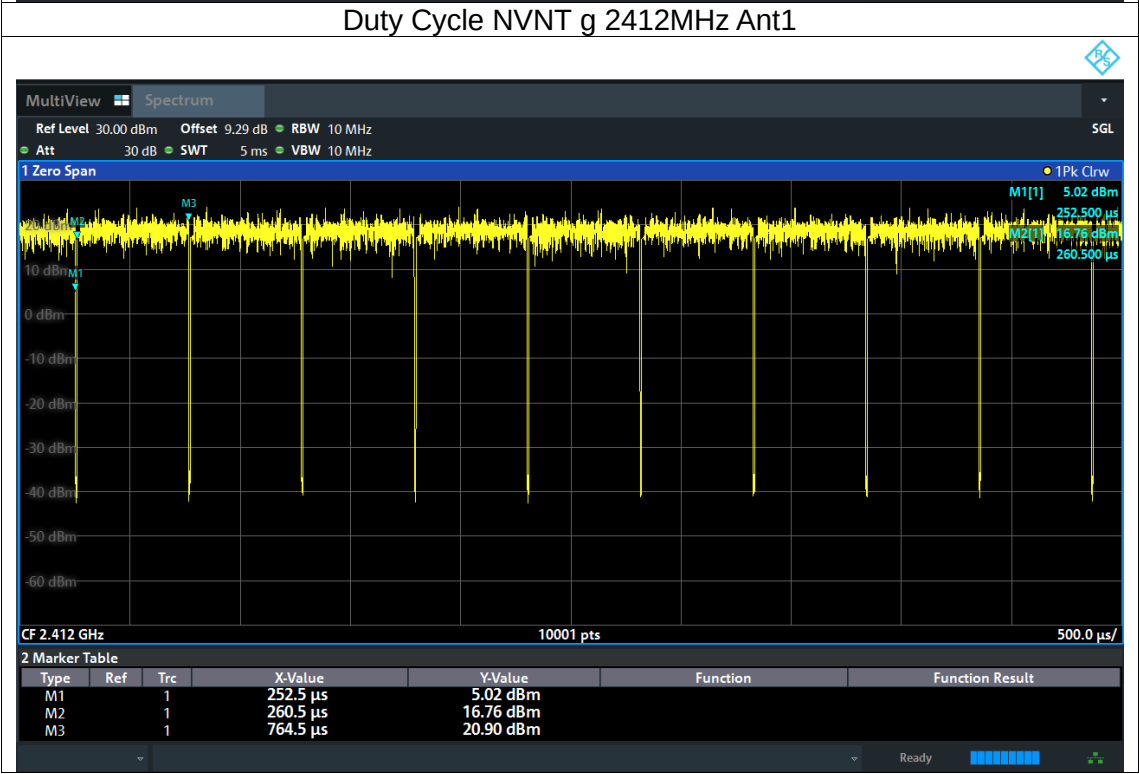
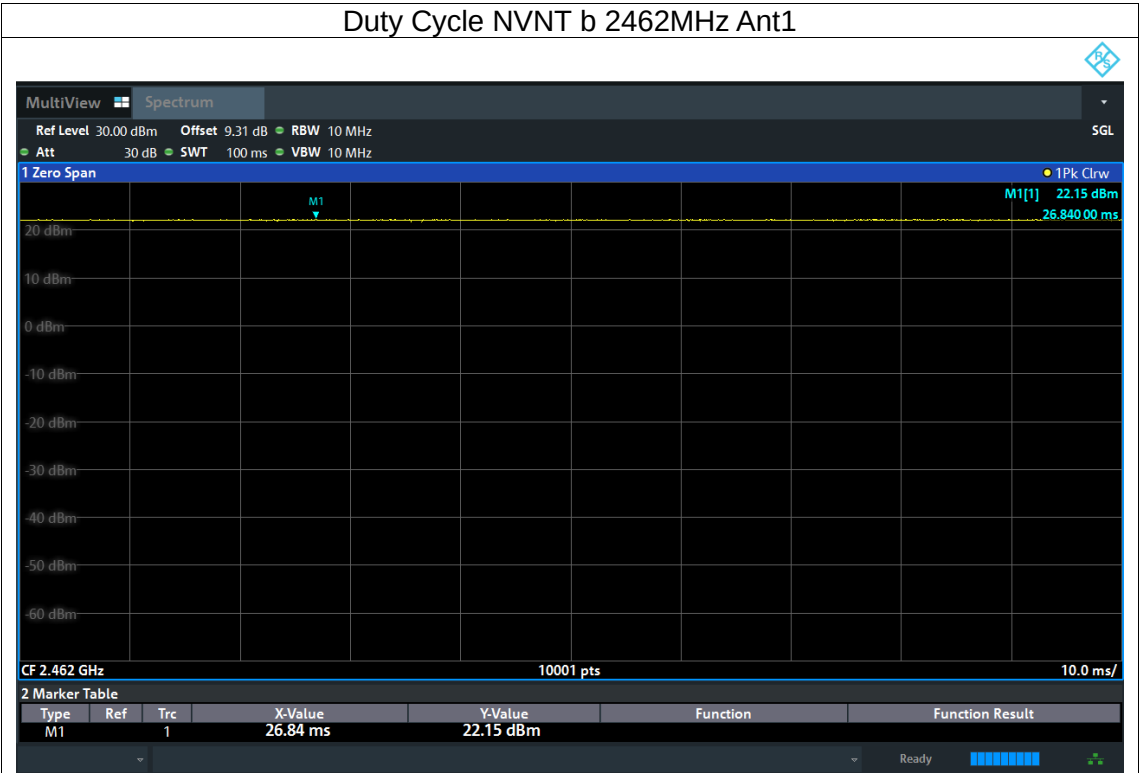


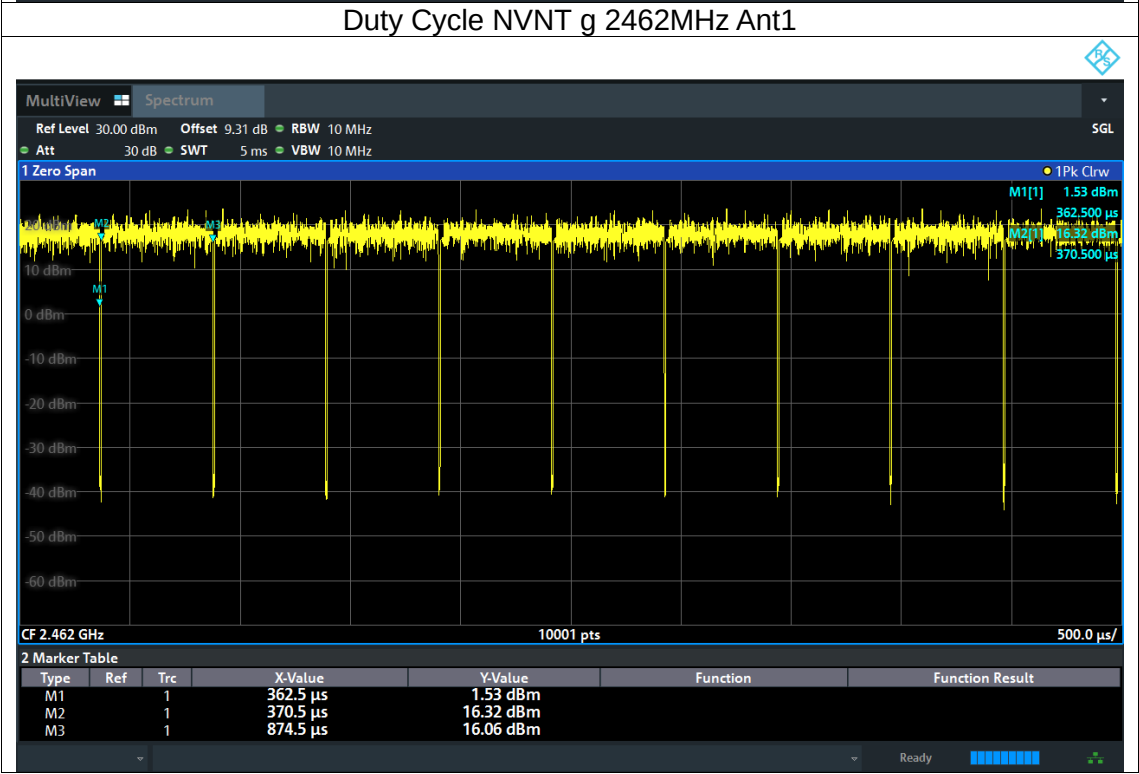
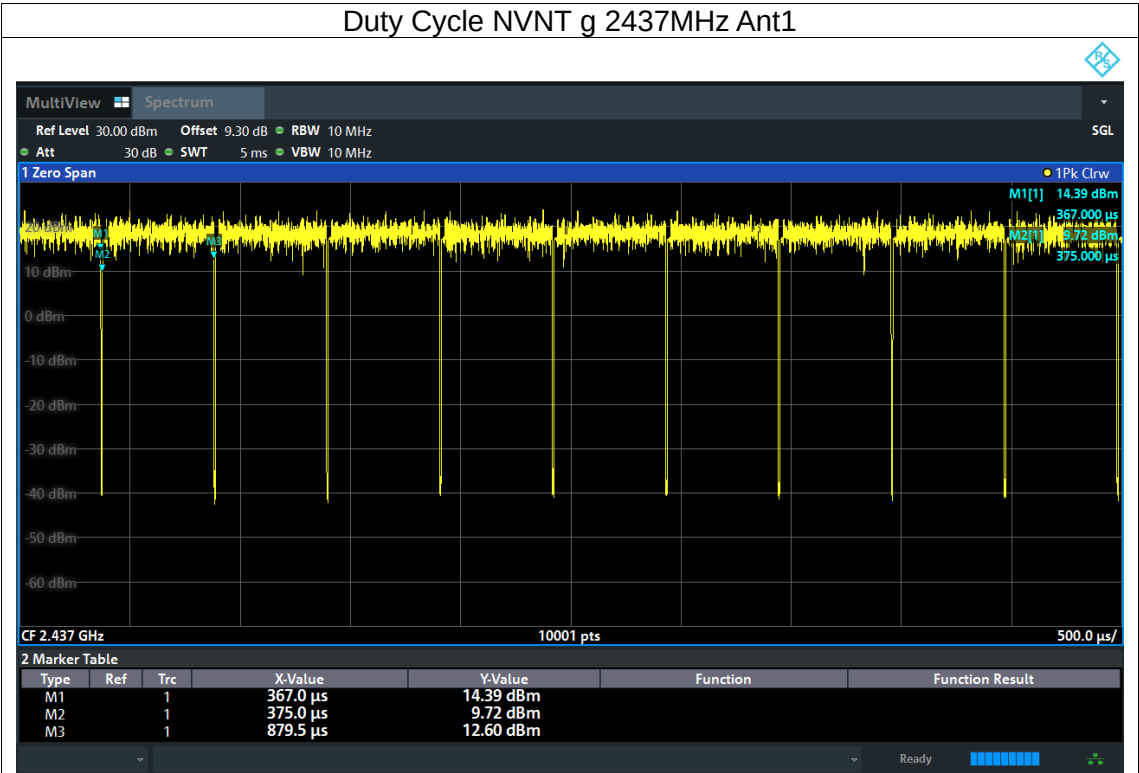
5.7.4 Test Results

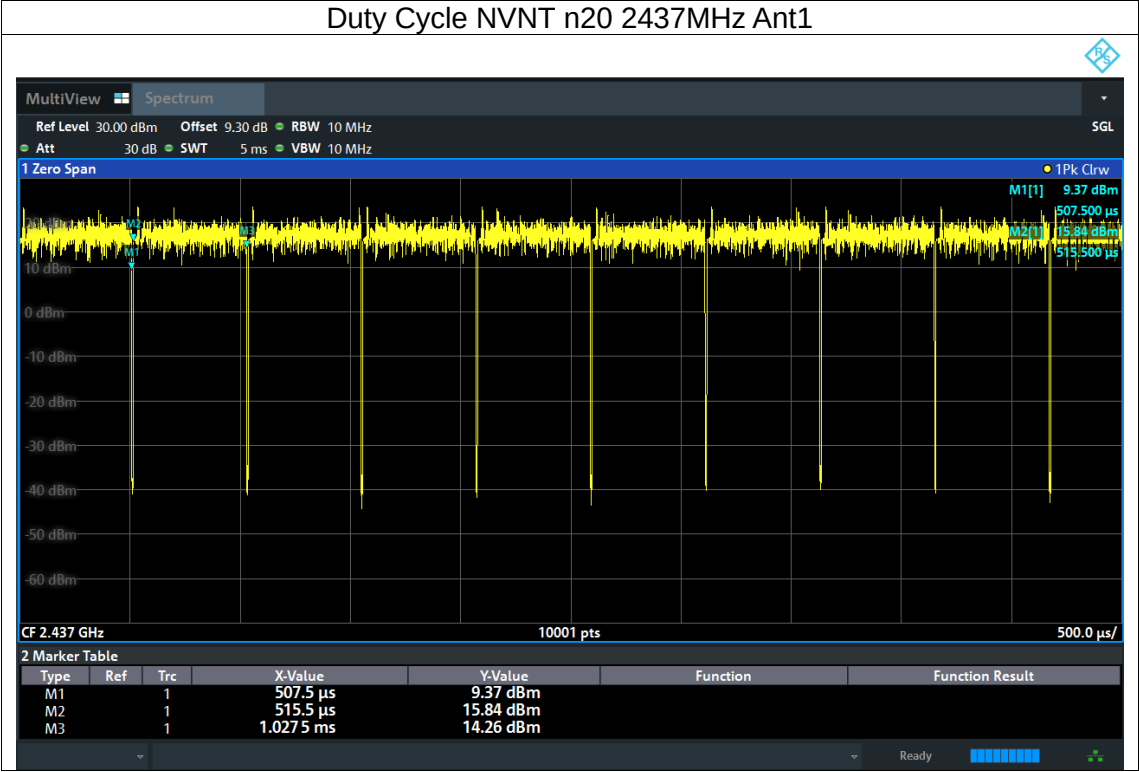
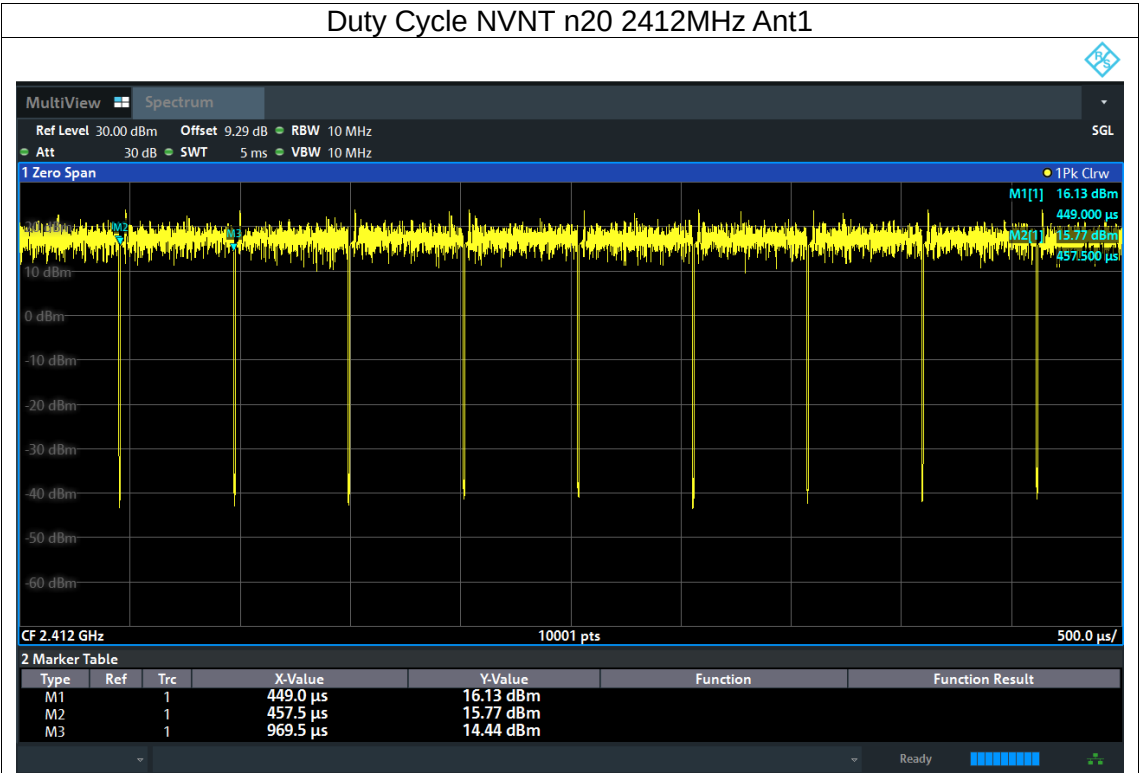
EUT:	Smart Water Fountain	Model Name:	PW1
Pressure:	1012 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	TX b/g/n/ax(20/40) Mode		

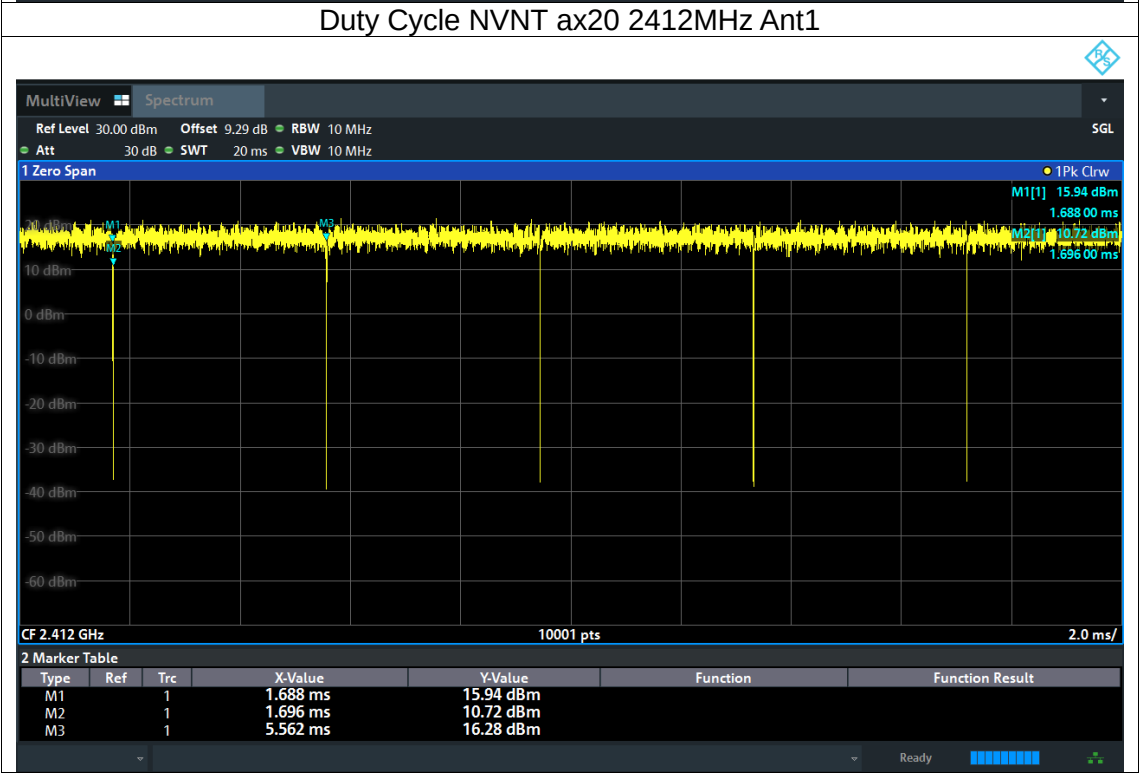
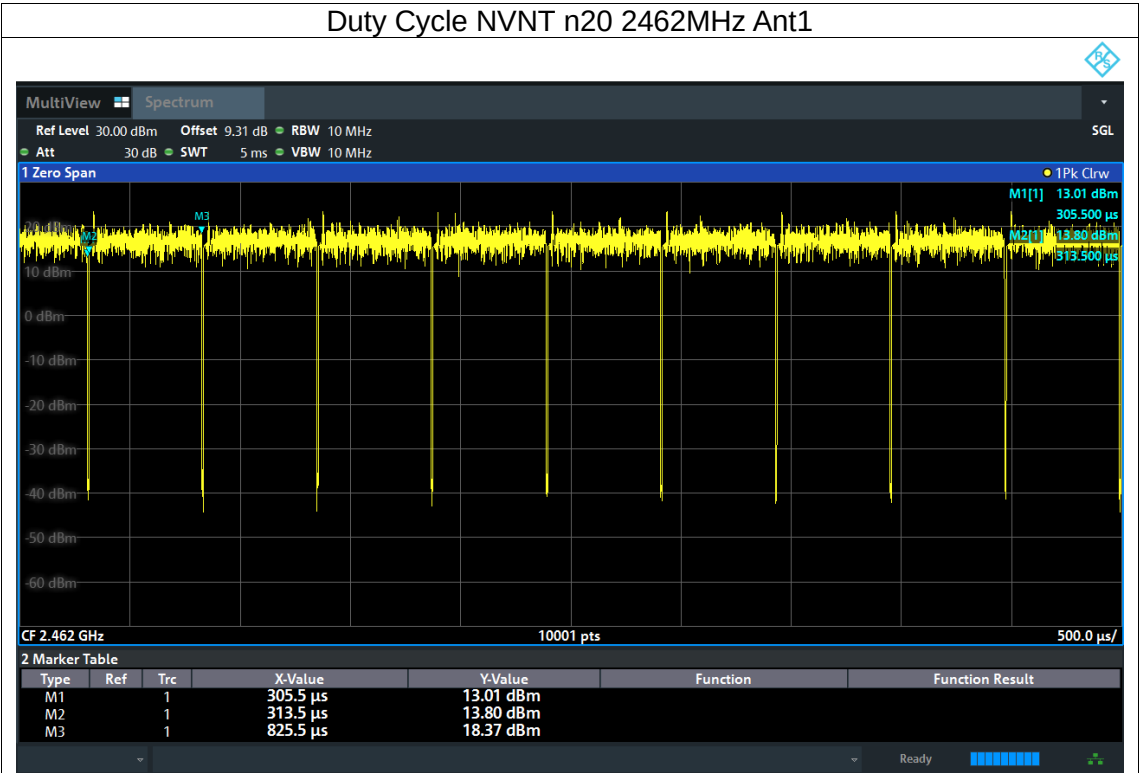
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	Ant1	100	0	0
b	2437	Ant1	100	0	0
b	2462	Ant1	100	0	0
g	2412	Ant1	98.44	0	1.98
g	2437	Ant1	98.44	0	1.98
g	2462	Ant1	98.44	0	1.98
n20	2412	Ant1	98.37	0	1.95
n20	2437	Ant1	98.46	0	1.95
n20	2462	Ant1	98.46	0	1.95
ax20	2412	Ant1	99.79	0	0.26
ax20	2437	Ant1	99.79	0	0.26
ax20	2462	Ant1	99.79	0	0.26

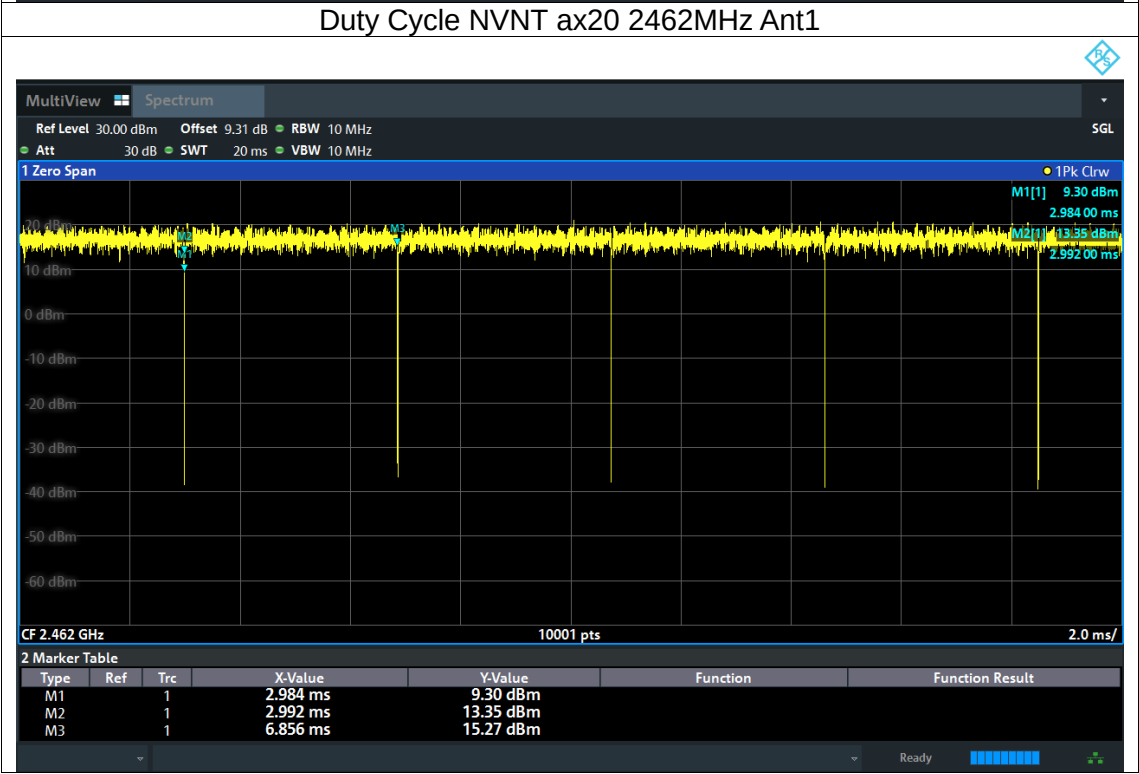
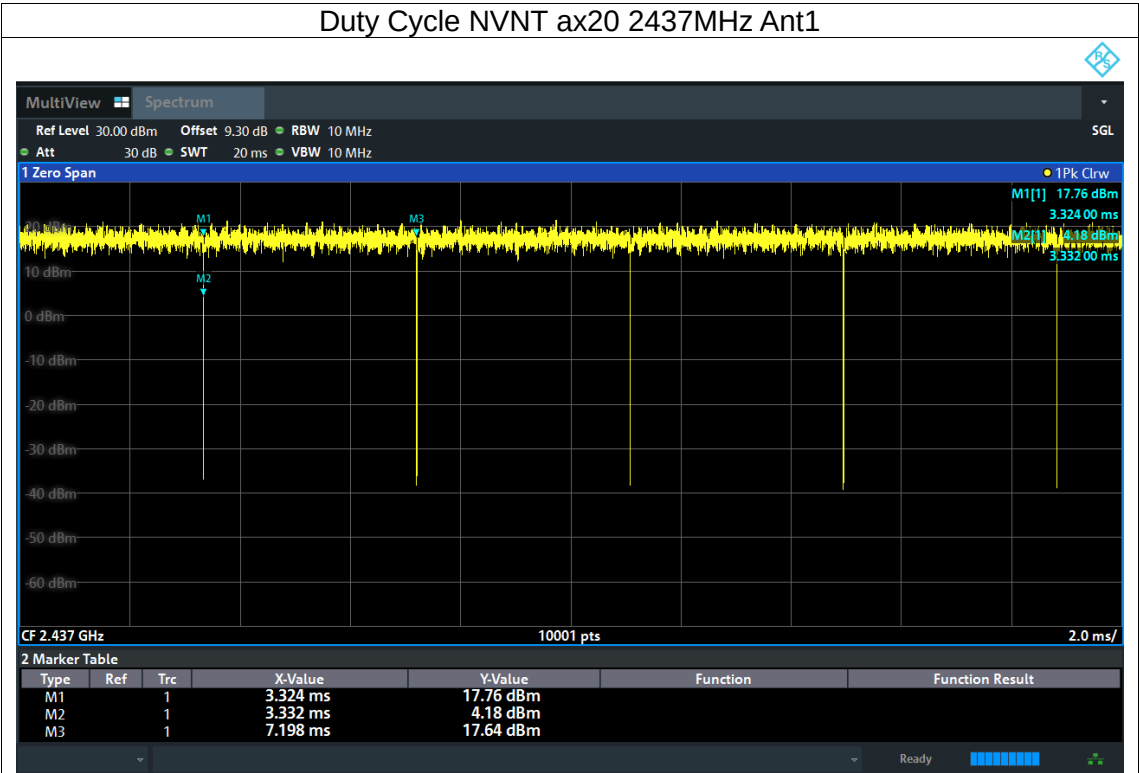












5.8 Conducted Band Edge

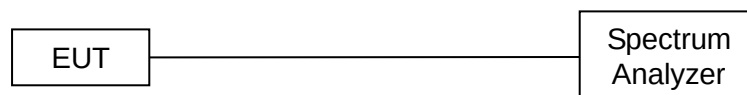
5.8.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

5.8.2 Test Procedure

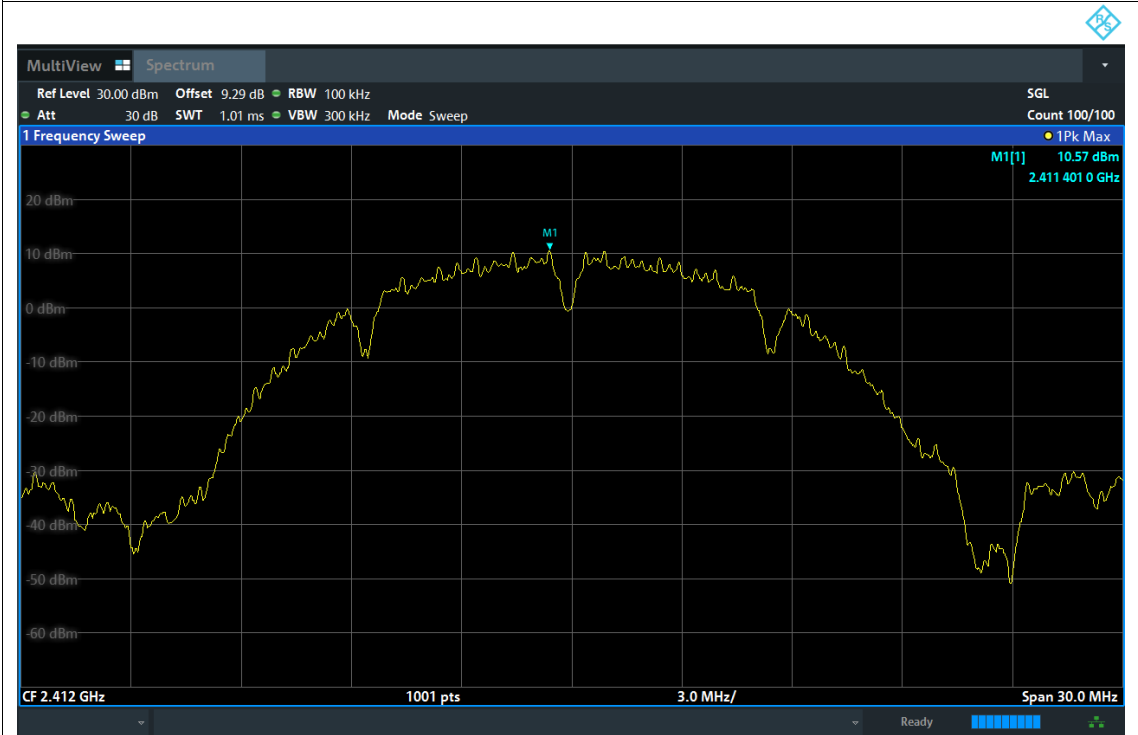
- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

5.8.3 Test Setup

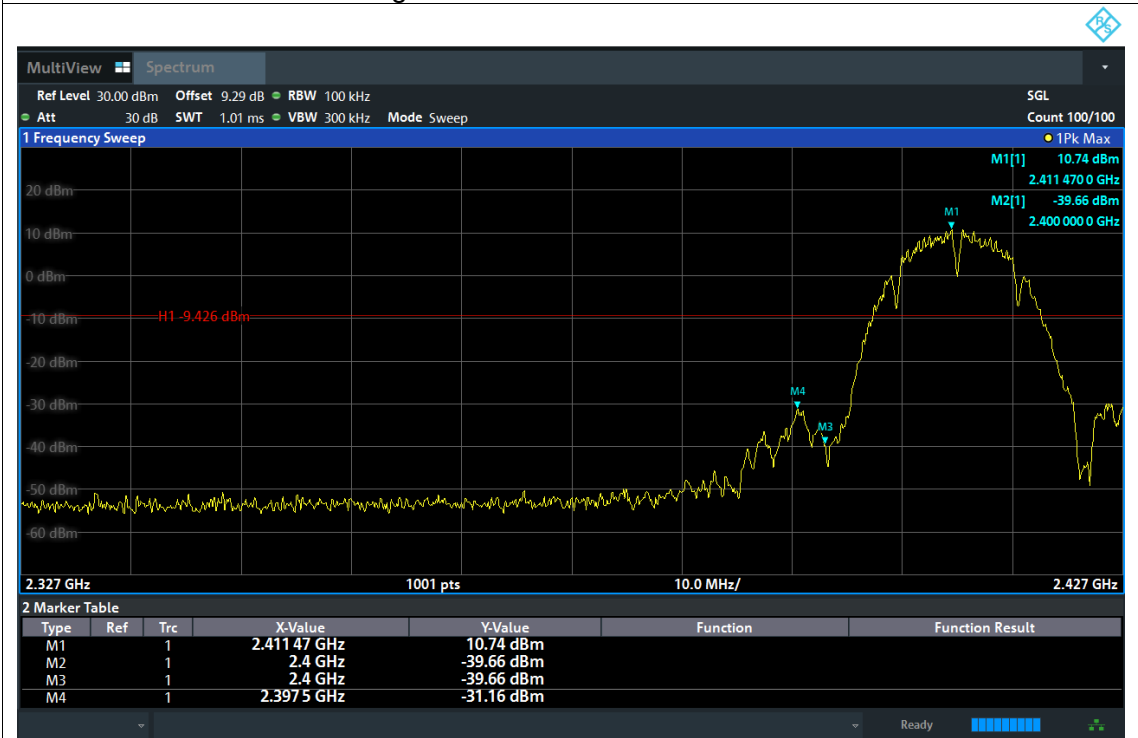


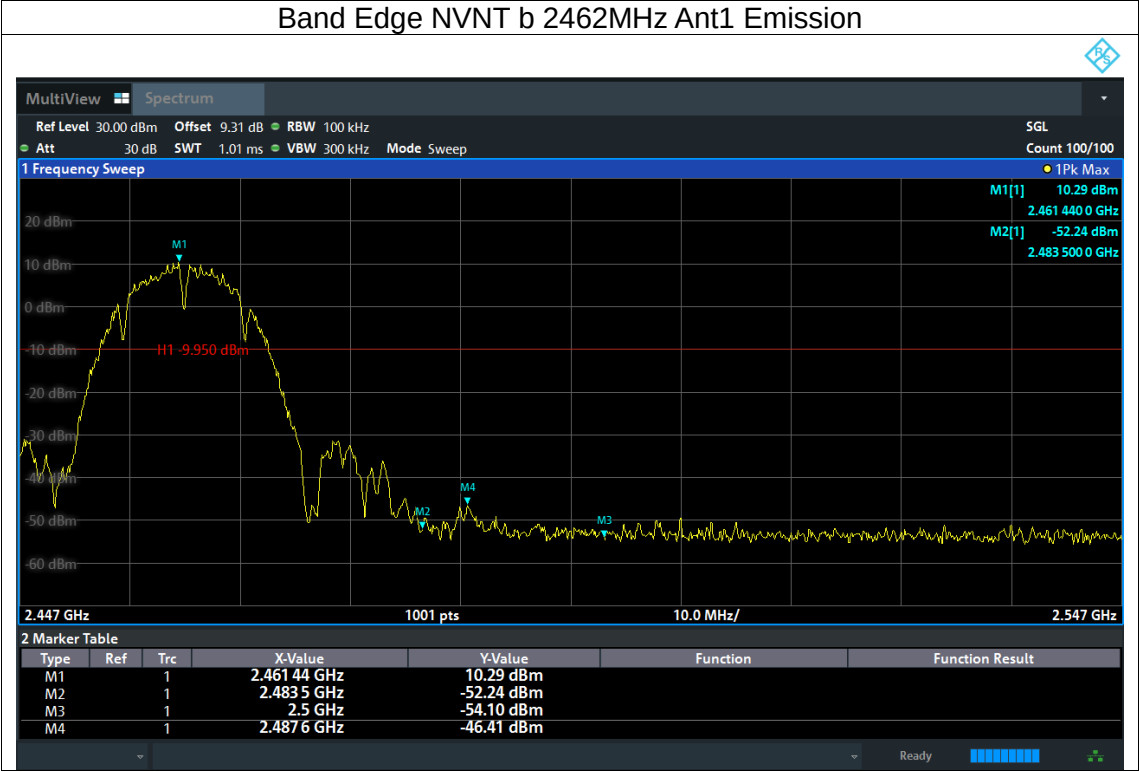
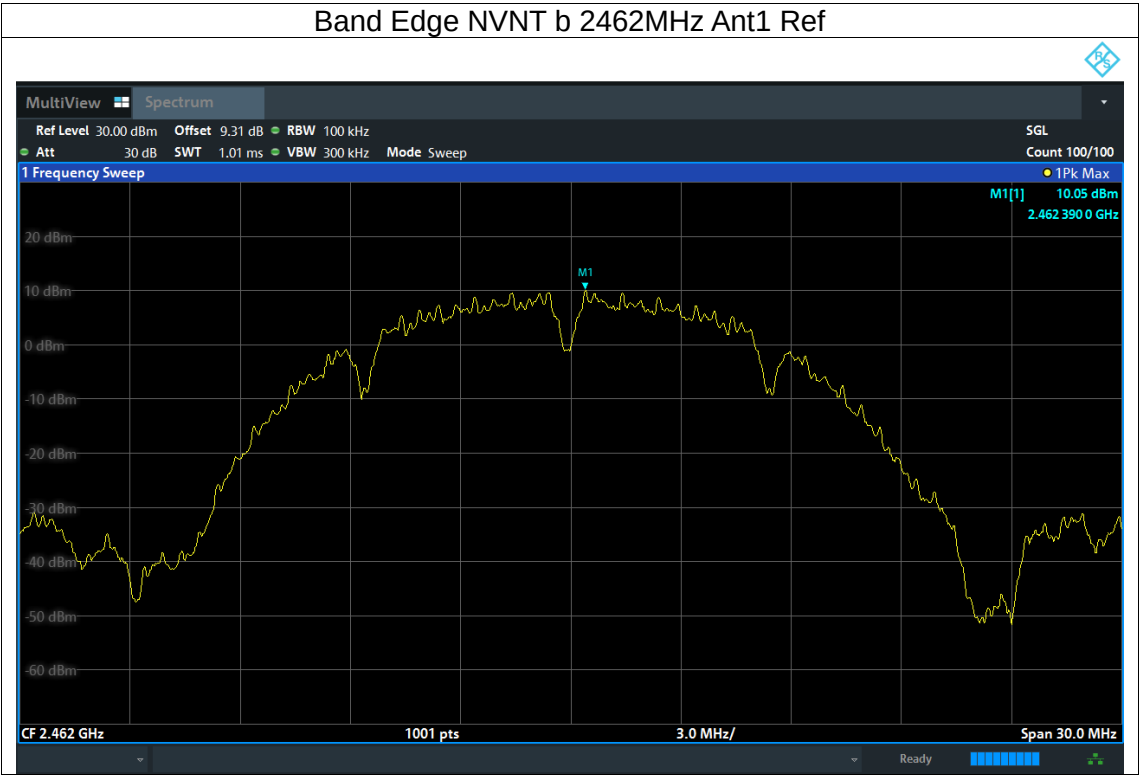
5.8.4 Test Results

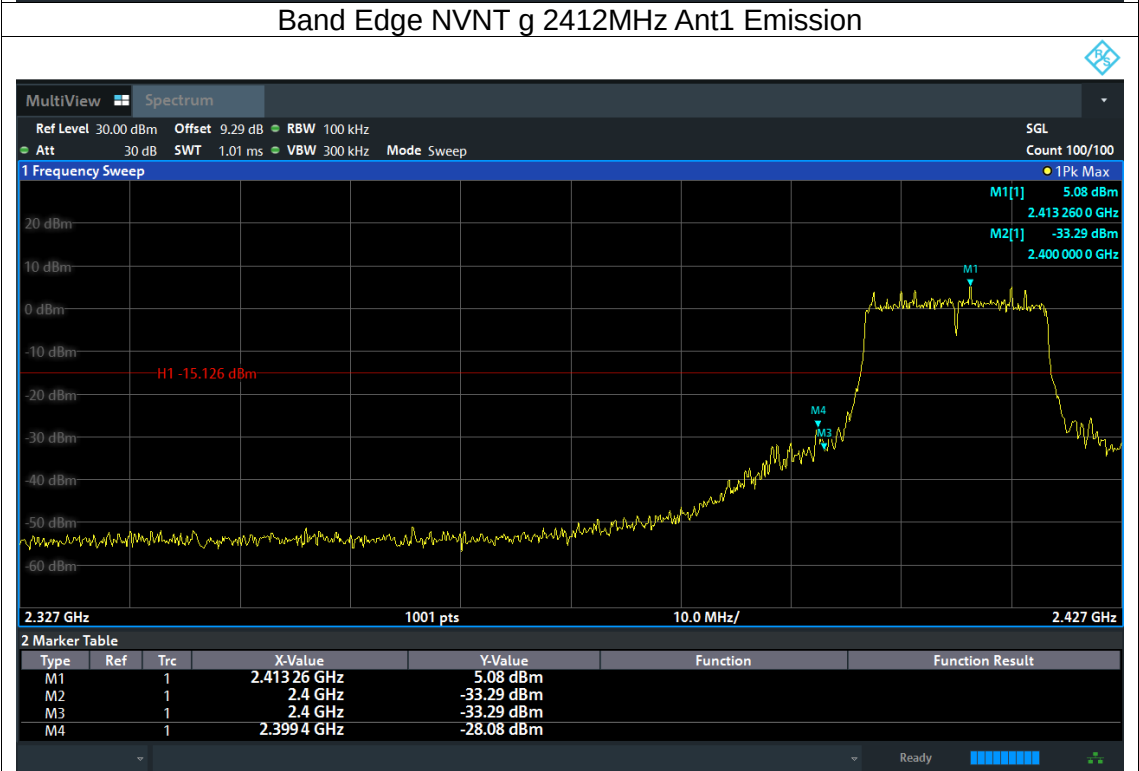
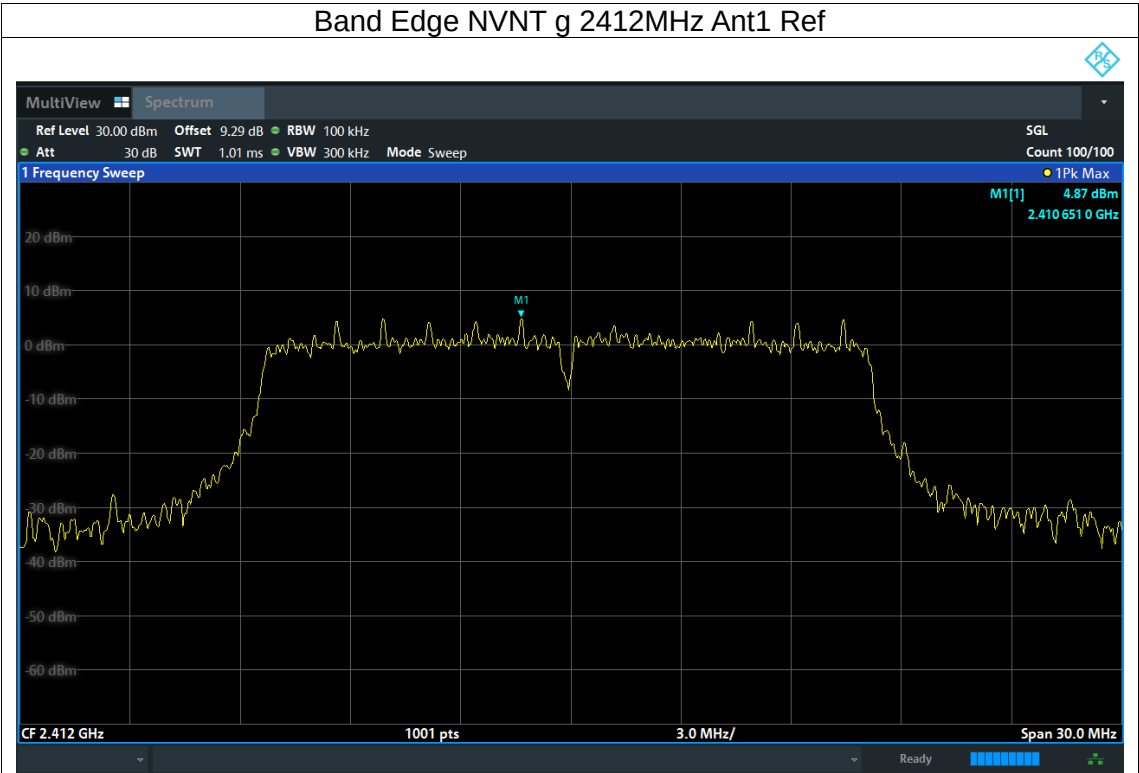
Band Edge NVNT b 2412MHz Ant1 Ref

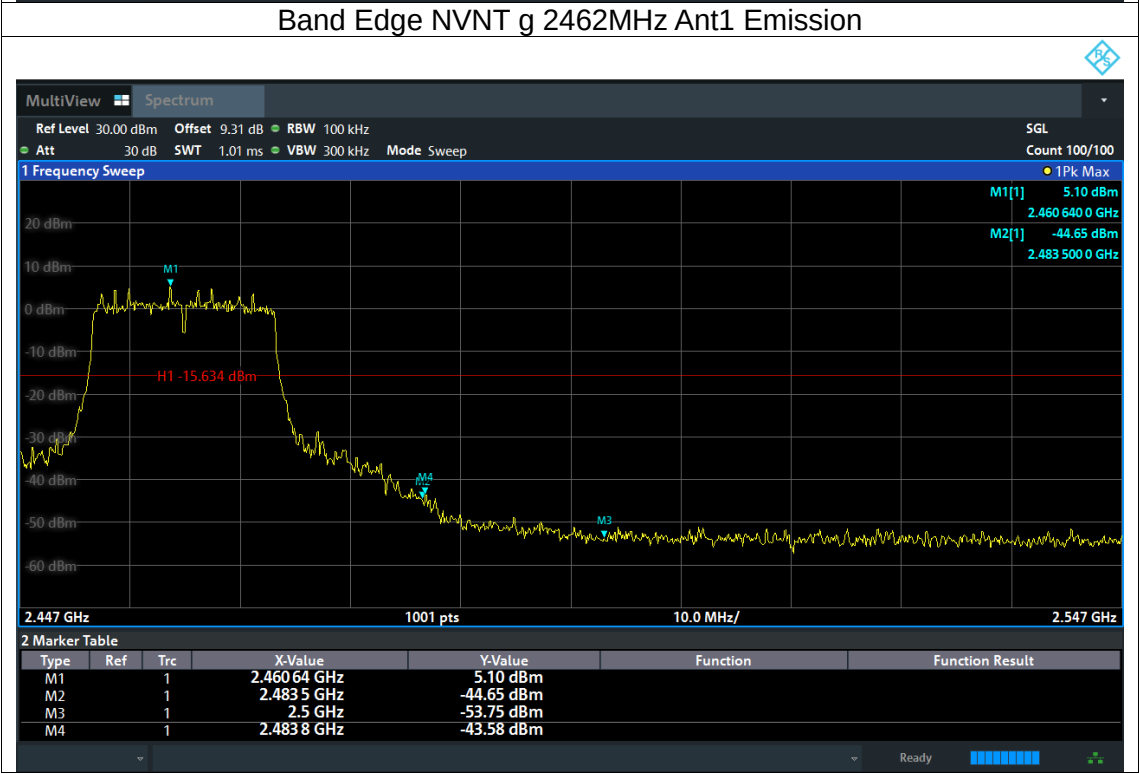
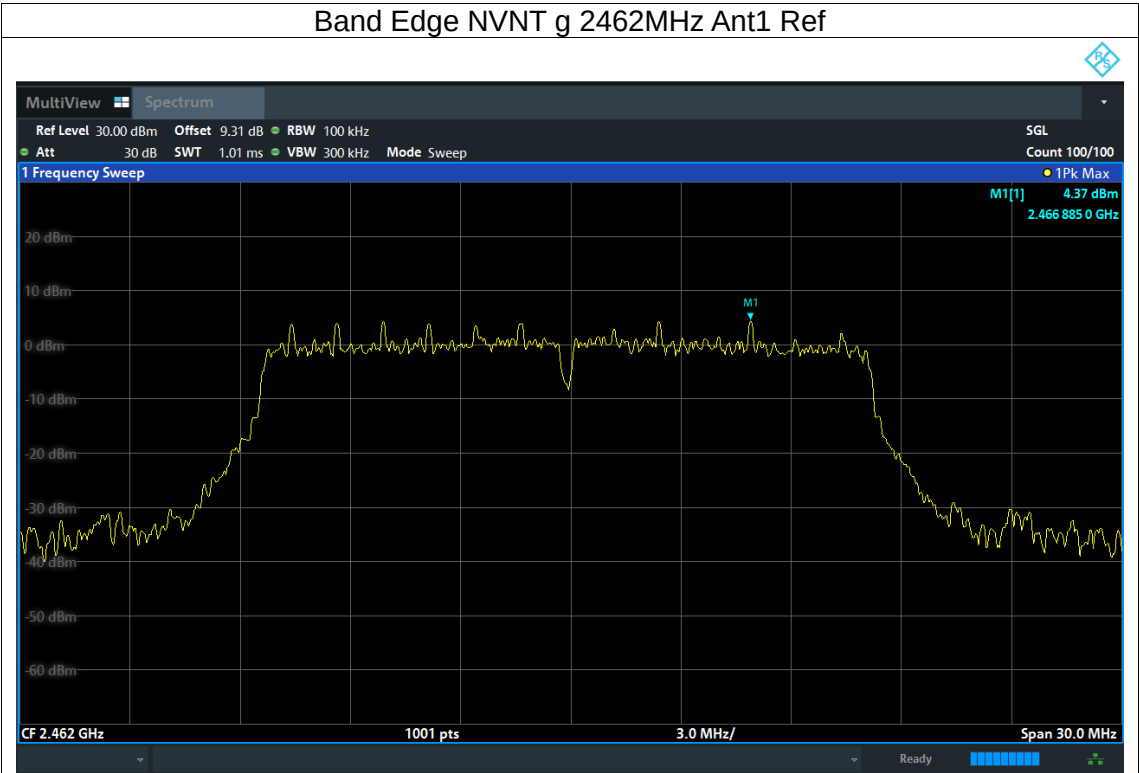


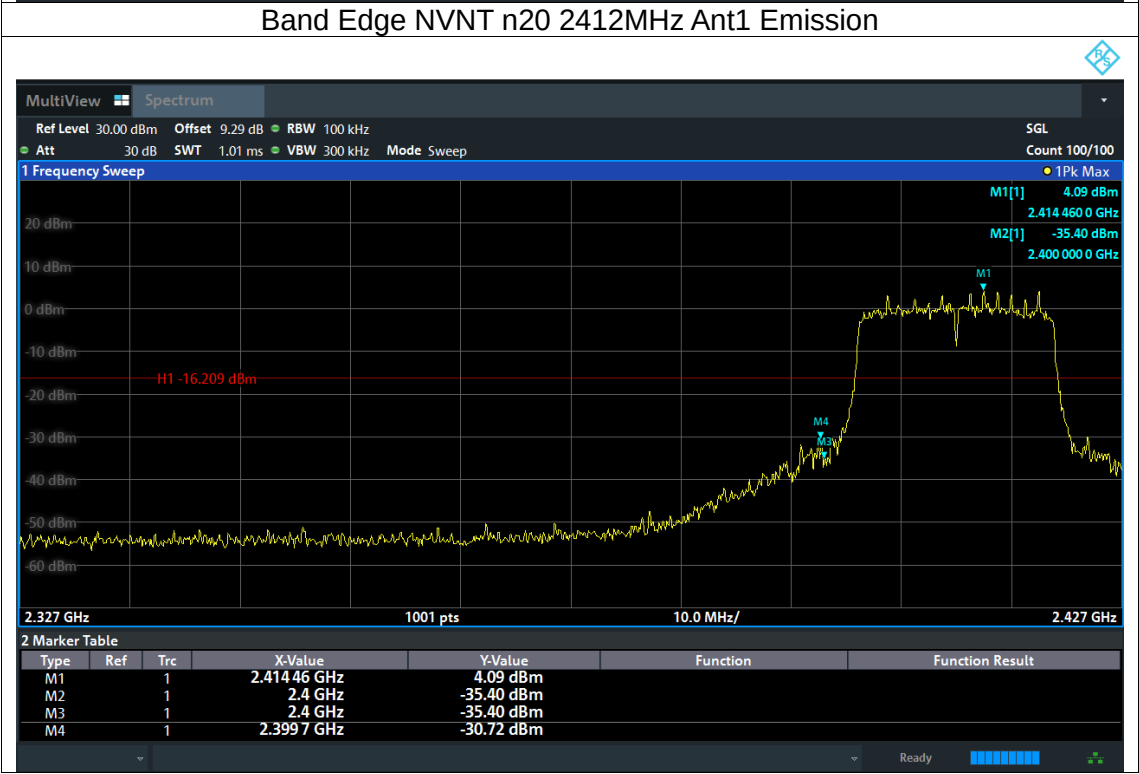
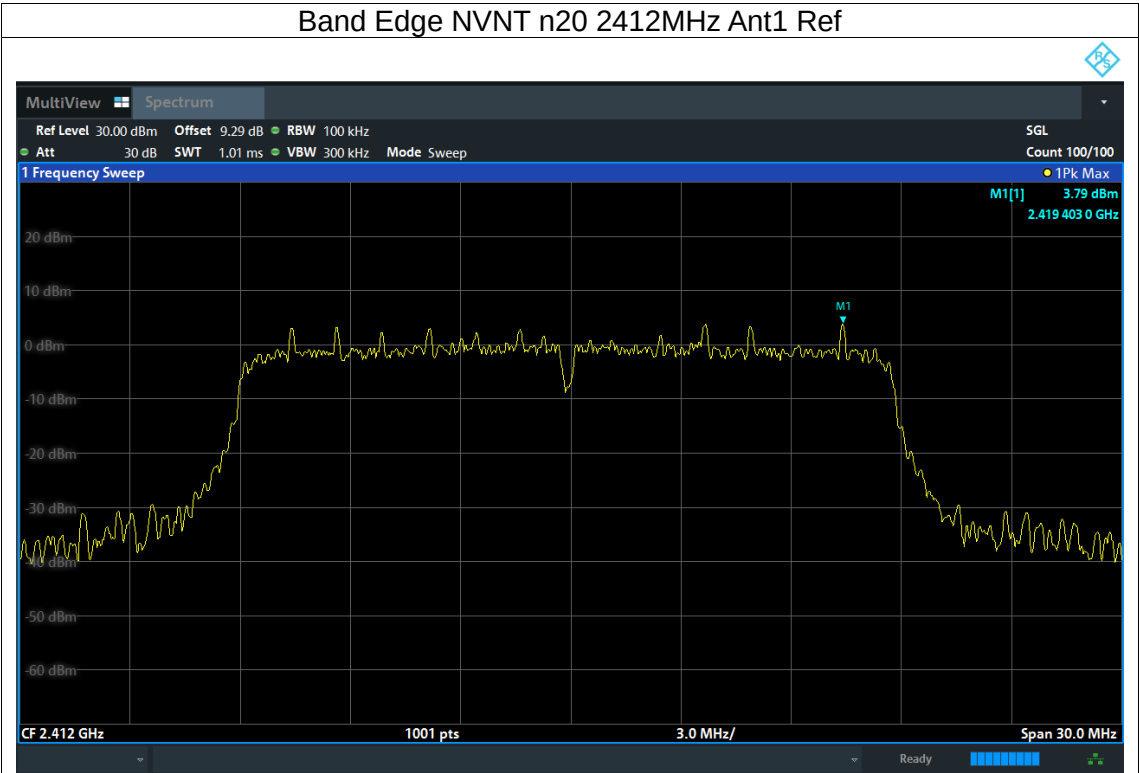
Band Edge NVNT b 2412MHz Ant1 Emission

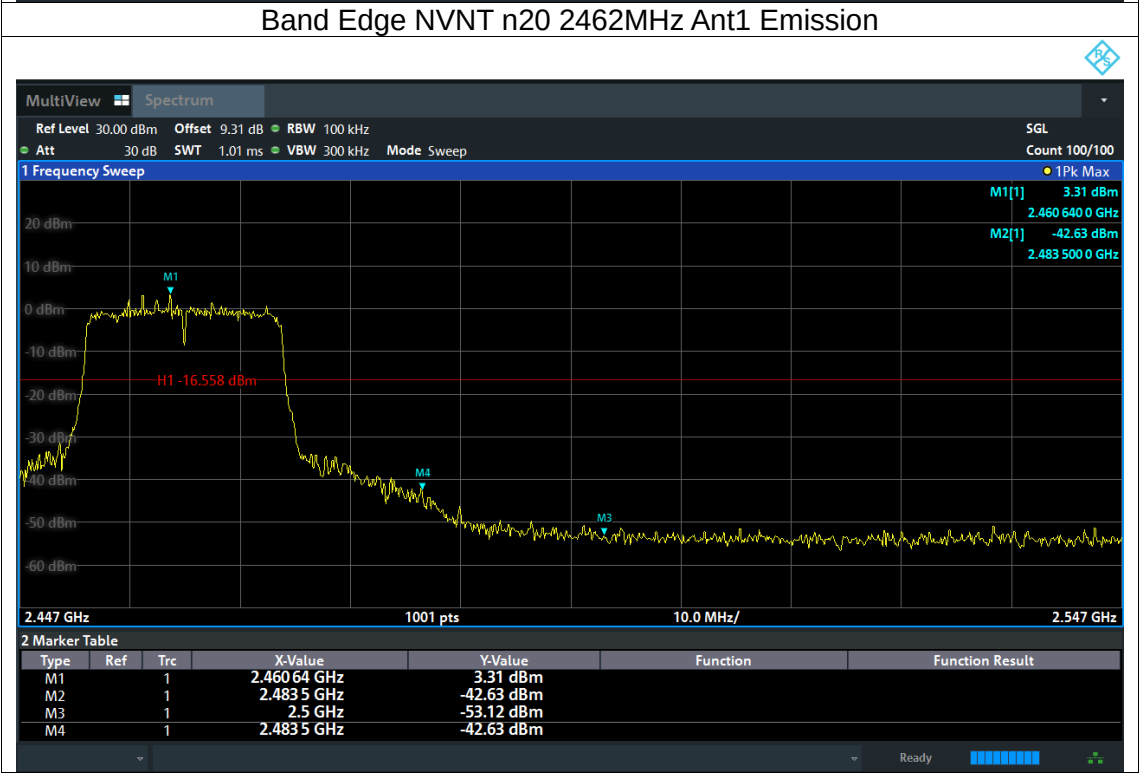
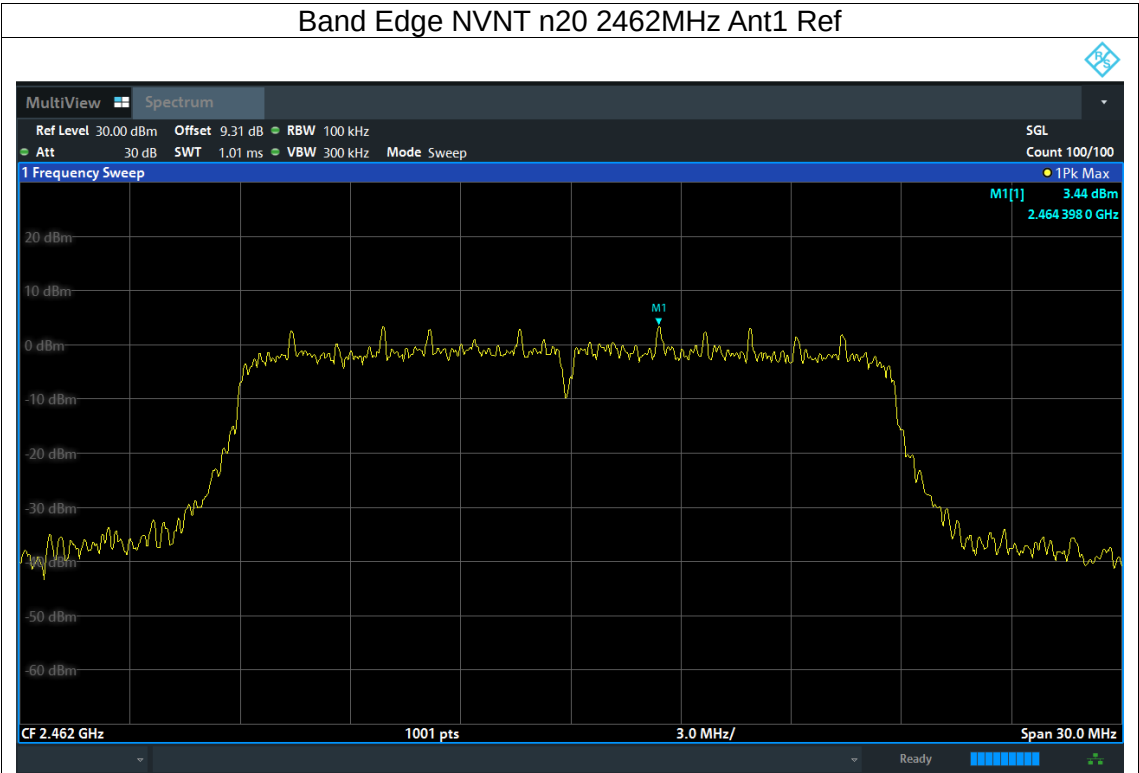


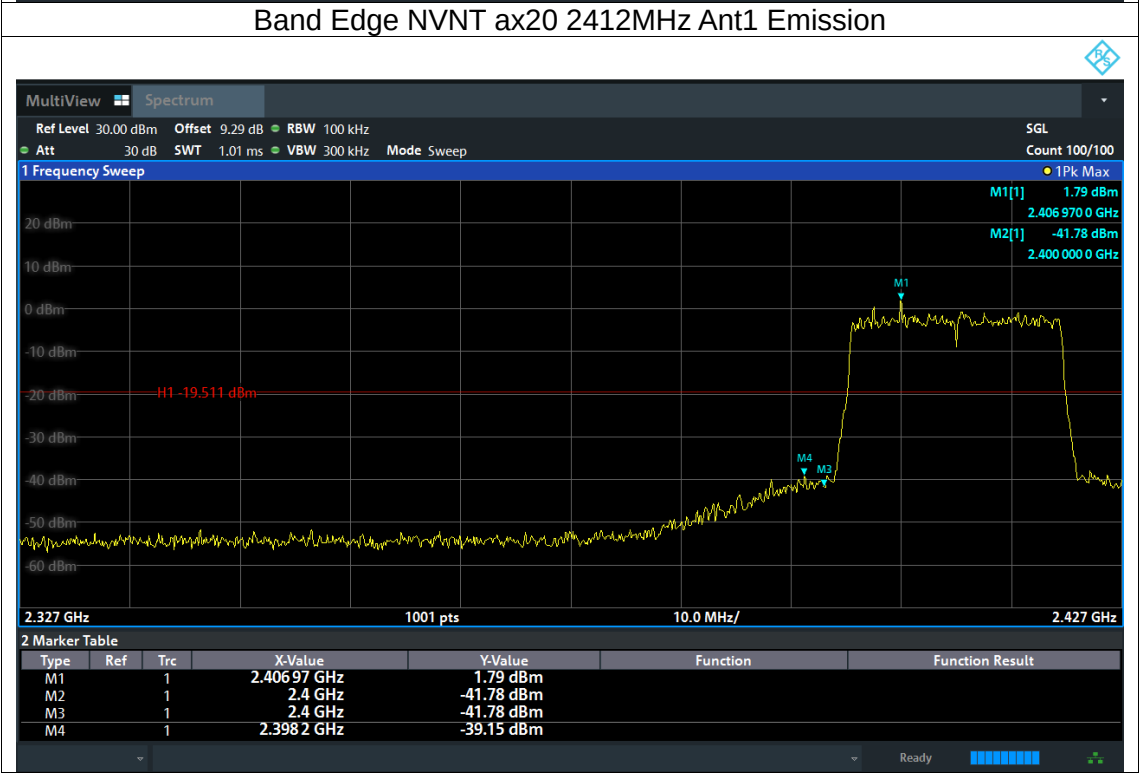
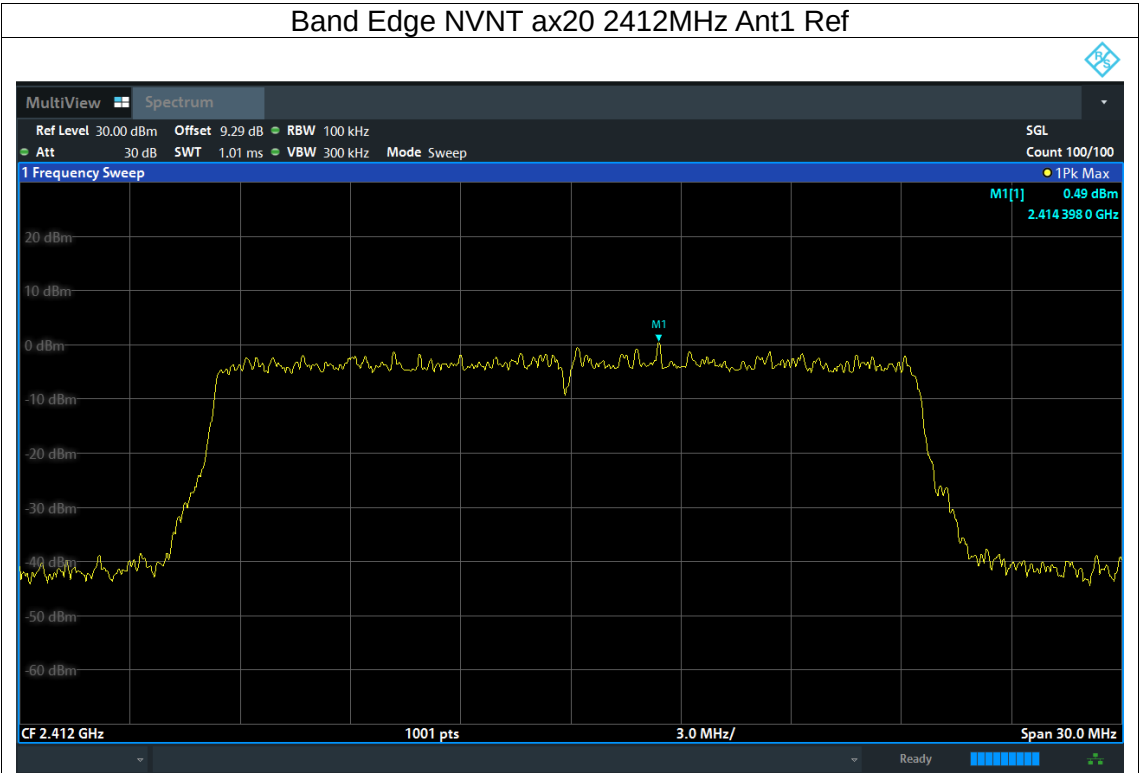


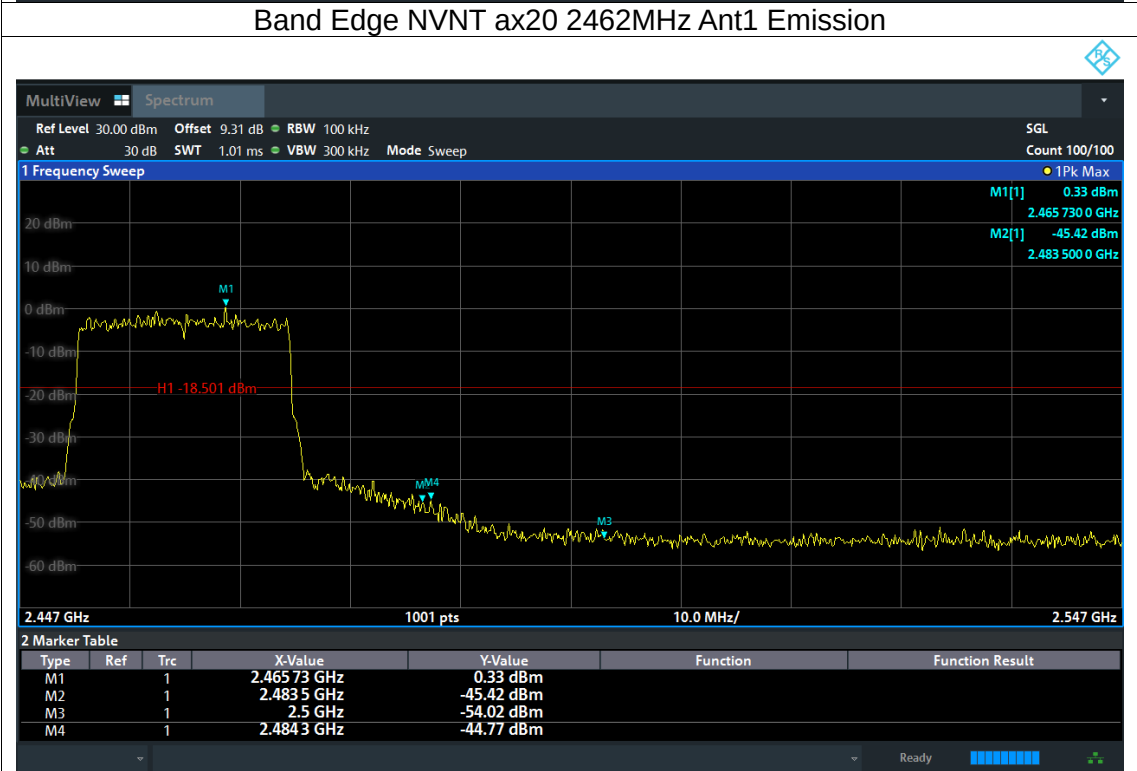
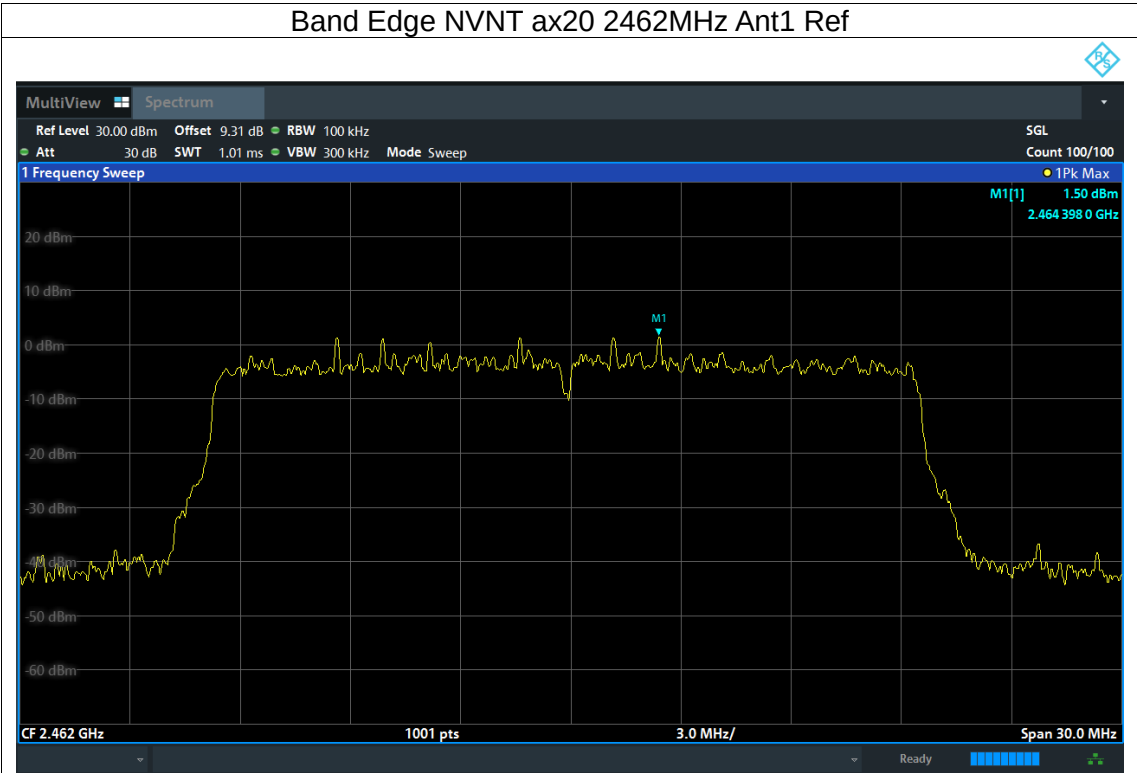












5.9 Spurious RF Conducted Emissions

5.9.1 Limit

Below -20dB of the highest emission level in operating band.

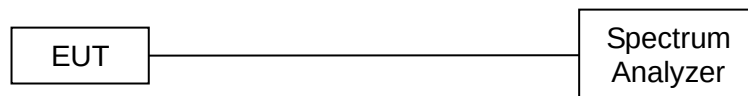
5.9.2 Measuring Instruments

The Measuring equipment is listed in the section 4 of this test report.

5.9.3 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300kHz to measure the peak field strength, and measure frequency range from 9kHz to 26.5GHz.

5.9.4 Test Setup



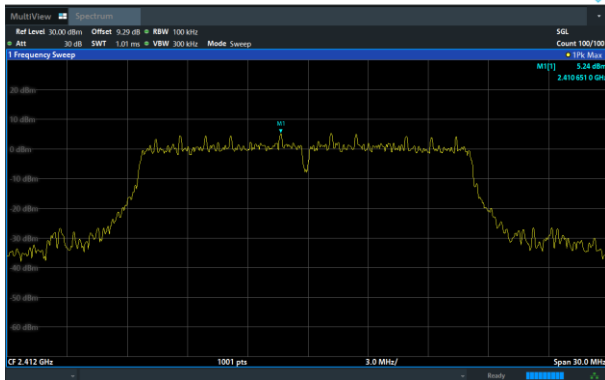
5.9.5 Test Results

Note:

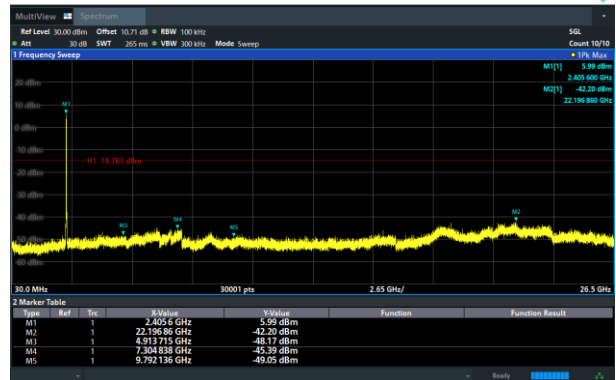
1: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency; The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

2: All modes have been tested, and only the worst mode 802.11g in the report.

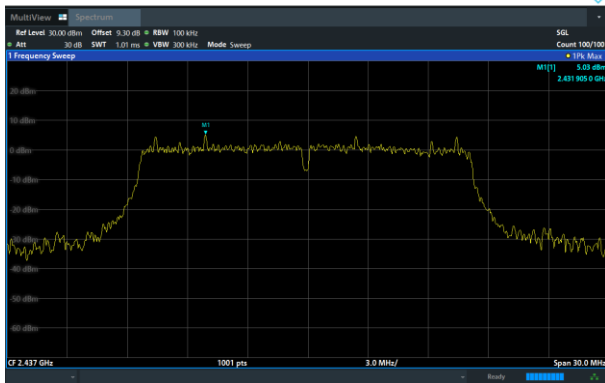
802.11g on Channel 01



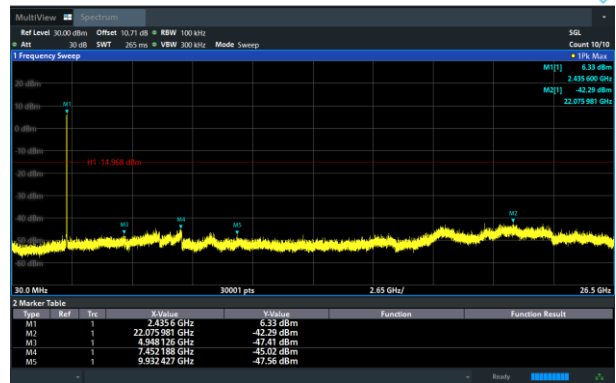
802.11g on Channel 01



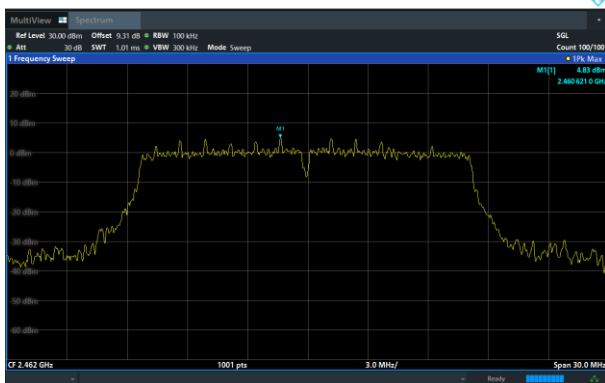
802.11g on Channel 06



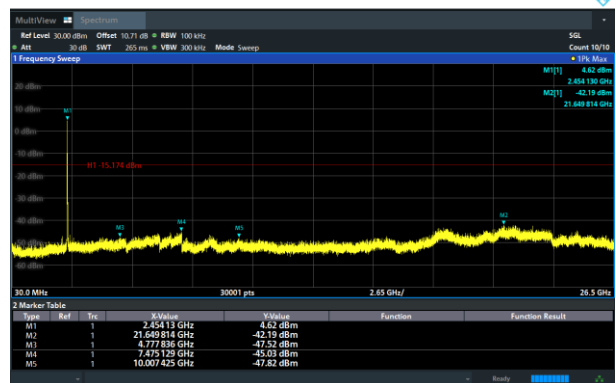
802.11g on Channel 06



802.11g on Channel 11

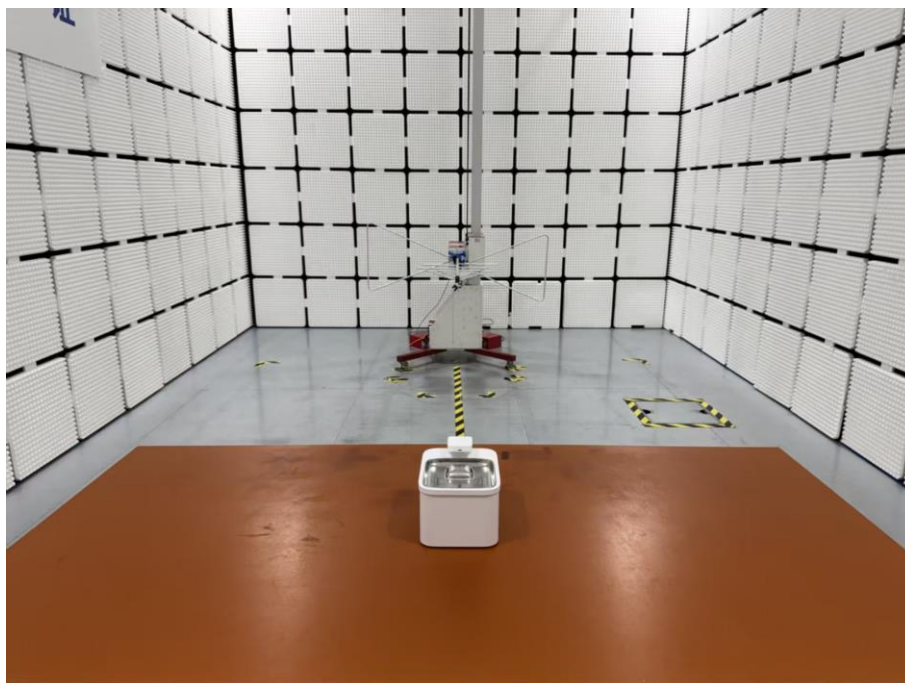


802.11g on Channel 11



6 Photographs of the Test Setup

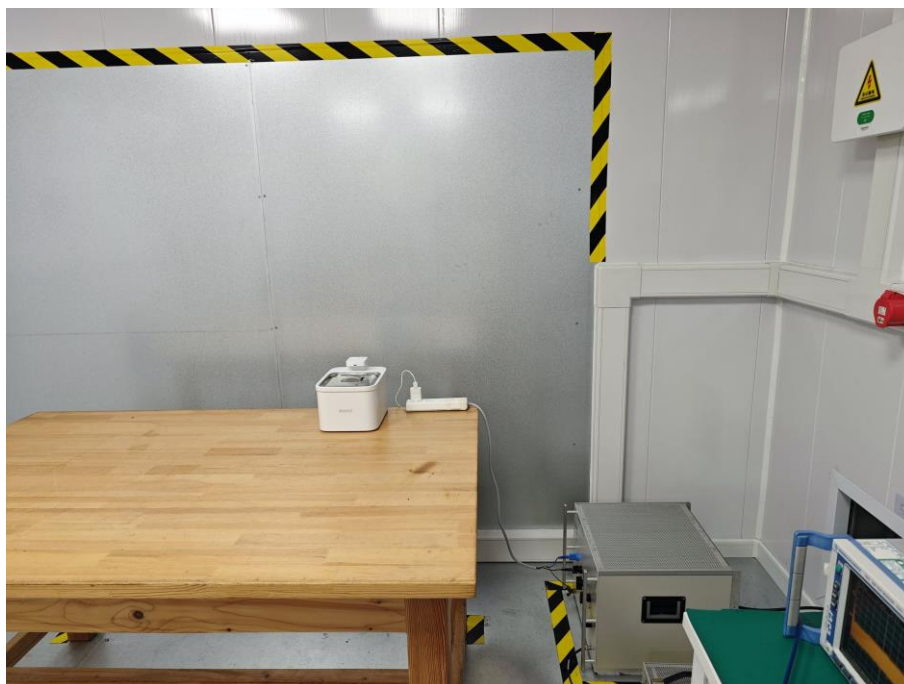
Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted emission



7 Photographs of the EUT

Please refer to report HB20260916006E-01 for product photos.

******* END OF REPORT *******