

Test Report

Product: HONOR CHOICE KUMI AI Note
Trade Mark: KUMI
Model Number: ELC-ME01
FCC ID: 2BGPH-ELCME01

Prepared for

Shenzhen Tenxinbona Technology Co., Ltd.
Room 405, Block A, United Financial Holdings Building, No.1 Shihua Road,
Futian District, Shenzhen, China

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>	25
5.3.6	<i>Spurious Emission in Band 1000MHz-25000MHz</i>	28
5.4	PEAK OUTPUT POWER	29
5.4.1	<i>Limit</i>	29
5.4.2	<i>Test Procedure</i>	29
5.4.3	<i>Test Setup</i>	29
5.4.4	<i>Test Results</i>	29
5.5	POWER SPECTRAL DENSITY.....	31
5.5.1	<i>Limit</i>	31
5.5.2	<i>Test Procedure</i>	31
5.5.3	<i>Test Setup</i>	31
5.5.4	<i>Test Results</i>	31
5.6	6dB BANDWIDTH	36
5.6.1	<i>Limit</i>	36
5.6.2	<i>Test Procedure</i>	36
5.6.3	<i>Test Setup</i>	36
5.6.4	<i>Test Results</i>	36
5.7	DUTY CYCLE	41
5.7.1	<i>Limit</i>	41

5.7.2	Test Procedure	41
5.7.3	Test Setup	41
5.7.4	Test Results	42
5.8	CONDUCTED BAND EDGE	49
5.8.1	Limit	49
5.8.2	Test Procedure	49
5.8.3	Test Setup	49
5.8.4	Test Results	49
5.9	SPURIOUS RF CONDUCTED EMISSIONS	53
5.9.1	Limit	53
5.9.2	Measuring Instruments	53
5.9.3	Test Procedure	53
5.9.4	Test Setup	53
5.9.5	Test Results	53
6	PHOTOGRAPHS OF THE TEST SETUP	55
7	PHOTOGRAPHS OF THE EUT	57

TEST RESULT CERTIFICATION

Applicant's Name..... : Shenzhen Tenxinbona Technology Co., Ltd.
Address : Room 405, Block A, United Financial Holdings Building, No.1
Shihua Road, Futian District, Shenzhen, China
Manufacturer's Name : Shenzhen Ailyworld Technology Co., Ltd
Address : 21st Floor, South Tower, Tongye Building, Meilin Sub-district,
Futian District, Shenzhen, China

Product description

Product name : HONOR CHOICE KUMI AI Note
Model Number : ELC-ME01
Standards : FCC Part 15.247
Test procedure..... : IEEE/ANSI C63.10-2020
KDB558074 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..... : Apr. 14, 2026~Apr. 21, 2026
Test Result..... : **Pass**

Testing Engineer :

Zoe Su

(Z o e S u)

Technical Manager :

Ming Liu

(M i n g L i u)

Authorized Signatory :

Leo Su

(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	HONOR CHOICE KUMI AI Note
Model name:	ELC-ME01
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	IEEE 802.11b/g/n20: 2412-2462MHz IEEE 802.11n40: 2422-2452MHz
Modulation type::	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g/n (HT20/H40): OFDM (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 150Mbps IEEE 802.11n(40MHz): MCS0-7, up to 300Mbps
Antenna type:	Multilayer Antenna
Antenna gain:	2.13dBi
Max. output power:	16.93dBm
Hardware version:	V1.0
Software version:	V1.0
Battery:	DC 3.87V, 130mAh, 0.51Wh
Power supply:	Input: DC 5V/0.5A
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

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

1.3 Operation Channel list

Channel List for 802.11b/g/n

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

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 and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test software Version		AmebaDPlus_mptool 1V11	
Mode	802.11b/g	802.11n20	802.11n40
Parameters	Default	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	A3RQPM24200 02411	Honor Terminal Co., Ltd.
Adapter	CD289	35810	Ugreen Group Limited
Wireless Charge	/	/	/

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
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 %.

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	$\pm 3\%$	
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 91270	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 Anaio Signal	Agilent	N5181A	MY47070421	2025-05-07	2026-05-06

		Generator					
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:

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 Multilayer 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.

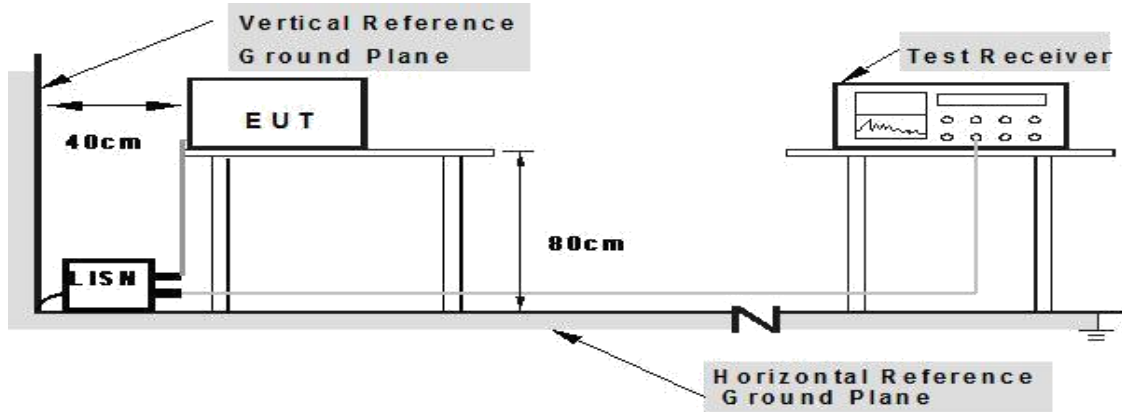
b) The following table is the setting of the receiver

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.

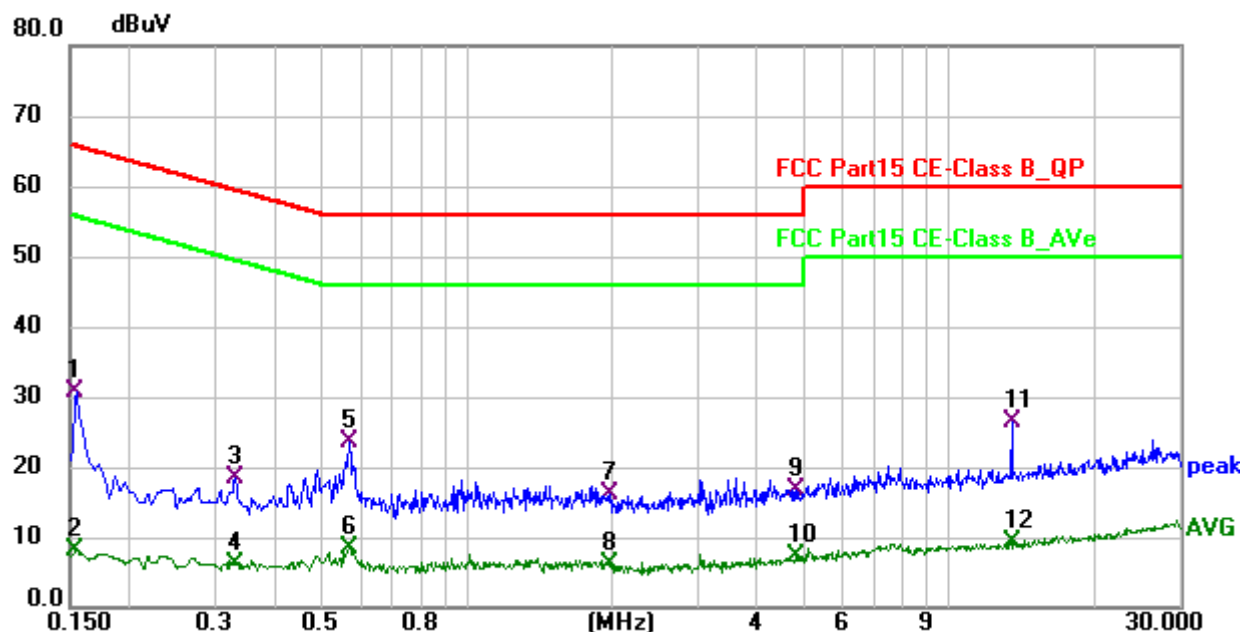
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



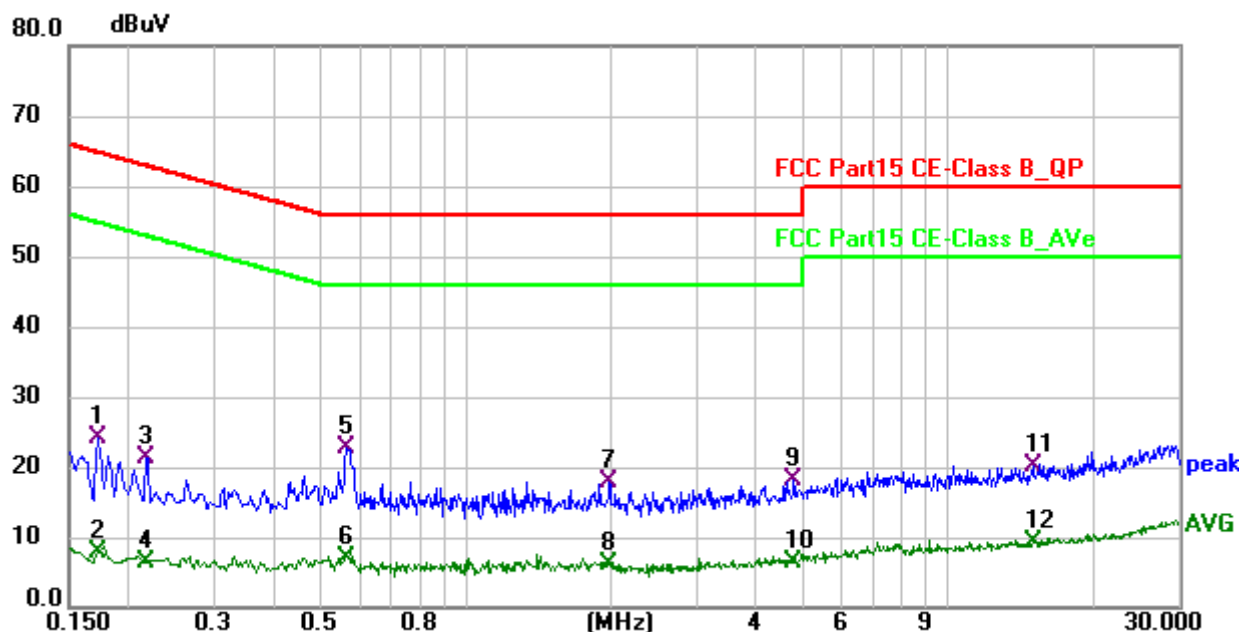
5.2.4 Test Result

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Test Mode:	Charging + TX	Phase:	L
Test Voltage:	DC 5V from Wireless Charge		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.154	20.61	10.16	30.77	65.79	-35.02	QP
2	0.154	-1.93	10.16	8.23	55.79	-47.56	AVG
3	0.330	8.23	10.09	18.32	59.45	-41.13	QP
4	0.330	-3.85	10.09	6.24	49.45	-43.21	AVG
5 *	0.569	13.38	10.11	23.49	56.00	-32.51	QP
6	0.569	-1.59	10.11	8.52	46.00	-37.48	AVG
7	1.972	5.82	10.34	16.16	56.00	-39.84	QP
8	1.972	-4.24	10.34	6.10	46.00	-39.90	AVG
9	4.825	5.54	11.31	16.85	56.00	-39.15	QP
10	4.825	-3.97	11.31	7.34	46.00	-38.66	AVG
11	13.546	12.56	13.94	26.50	60.00	-33.50	QP
12	13.546	-4.74	13.94	9.20	50.00	-40.80	AVG

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Test Mode:	Charging + TX	Phase:	N
Test Voltage:	DC 5V from Wireless Charge		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.172	14.08	10.17	24.25	64.86	-40.61	QP
2	0.172	-2.33	10.17	7.84	54.86	-47.02	AVG
3	0.217	11.20	10.15	21.35	62.93	-41.58	QP
4	0.217	-3.59	10.15	6.56	52.93	-46.37	AVG
5 *	0.564	12.46	10.12	22.58	56.00	-33.42	QP
6	0.564	-3.00	10.12	7.12	46.00	-38.88	AVG
7	1.990	7.37	10.35	17.72	56.00	-38.28	QP
8	1.990	-4.24	10.35	6.11	46.00	-39.89	AVG
9	4.794	6.89	11.30	18.19	56.00	-37.81	QP
10	4.794	-4.76	11.30	6.54	46.00	-39.46	AVG
11	15.027	5.98	14.13	20.11	60.00	-39.89	QP
12	15.027	-4.86	14.13	9.27	50.00	-40.73	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

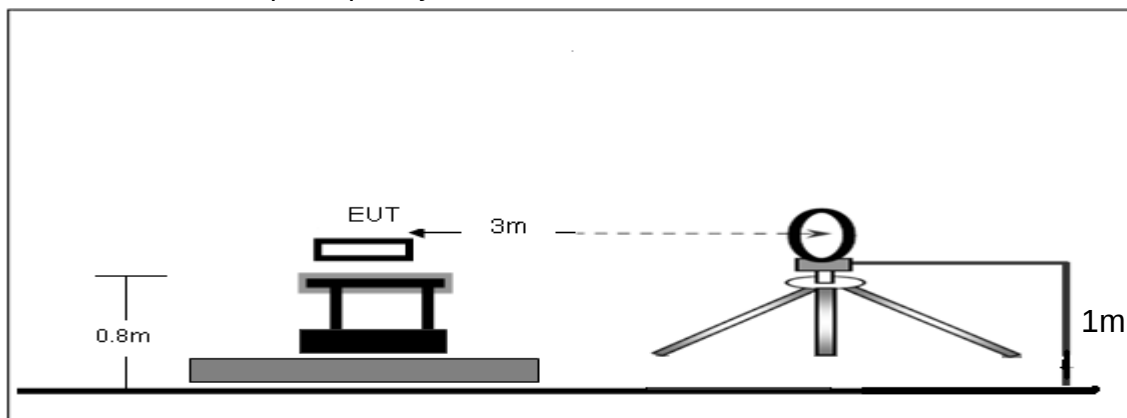
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.3.2 Test Procedures

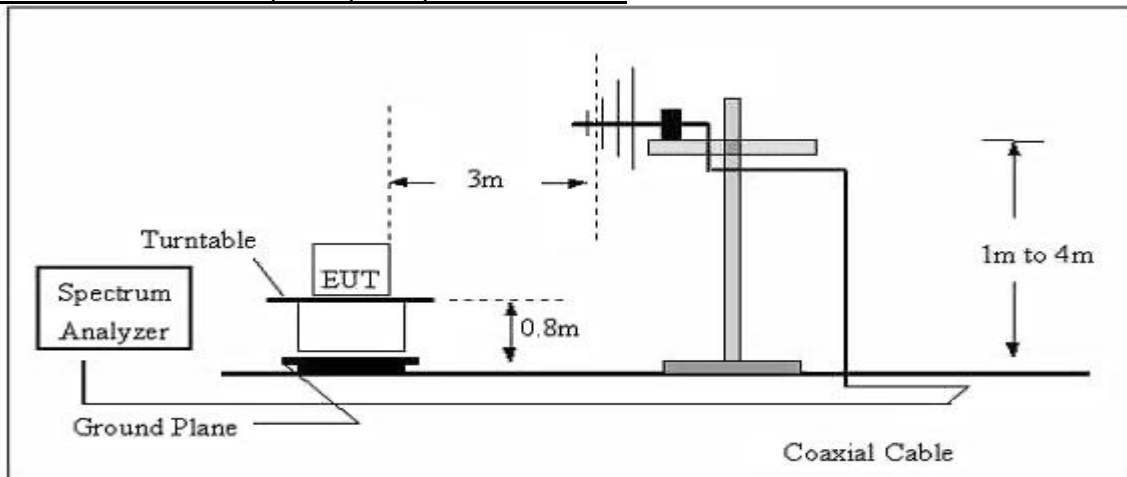
- The radiated emission tests were performed in the 3 meters.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal 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

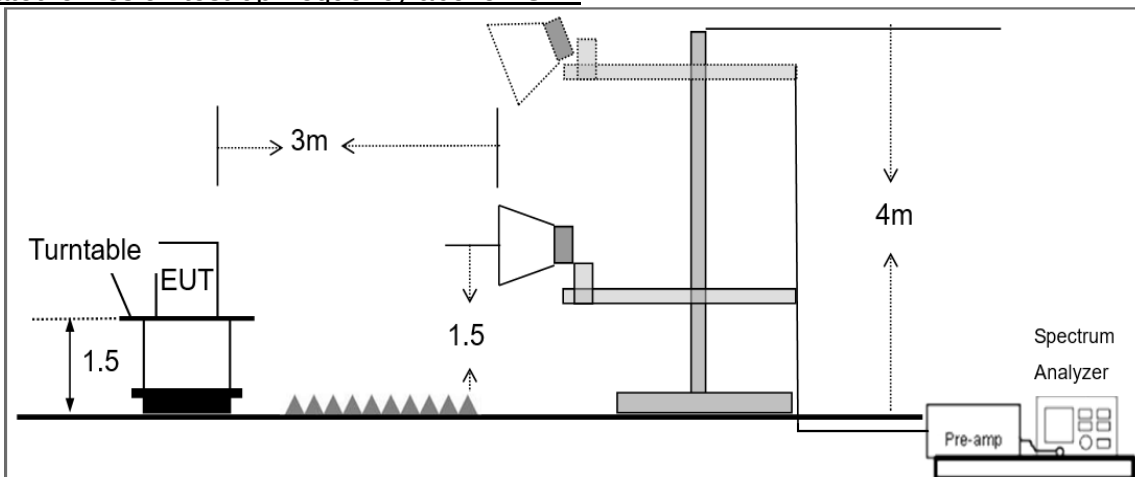
Radiated Emission Test-Up Frequency Below 30MHz



Radiated Emission Test-Up Frequency 30MHz~1GHz



Radiated emission test-up frequency above 1GHz



5.3.4 Test Result

Below 30MHz

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1010 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX	Polarization:	--

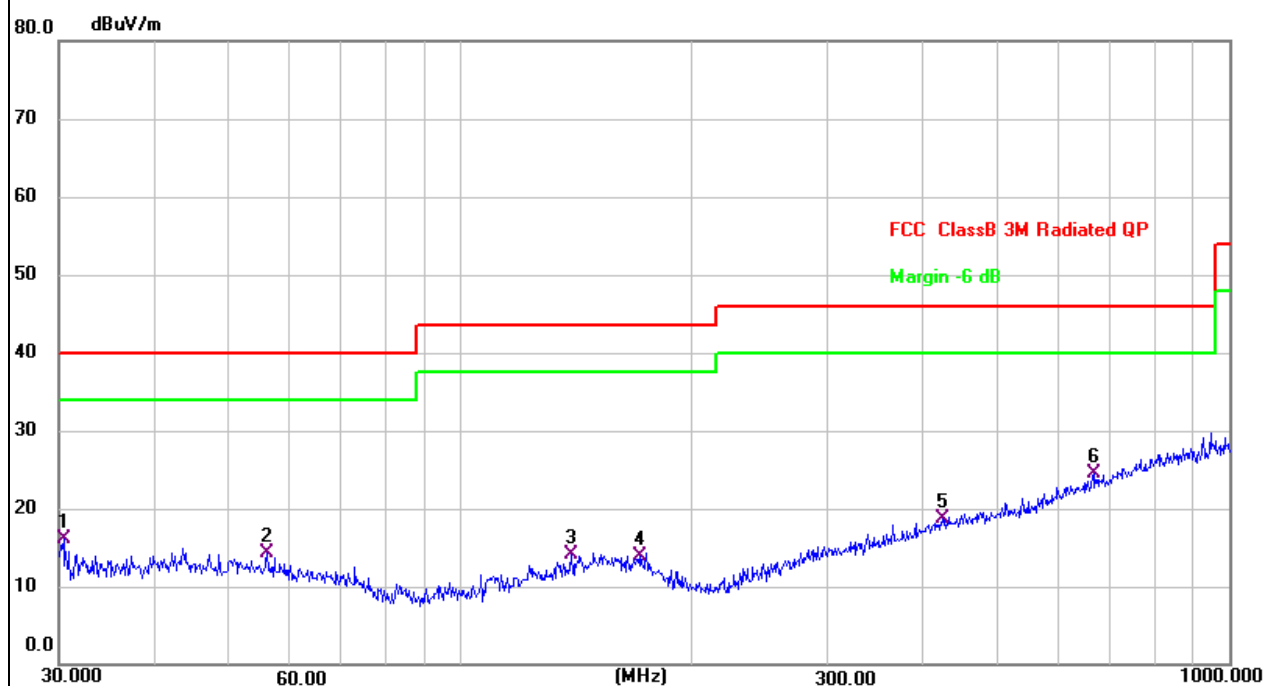
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

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.

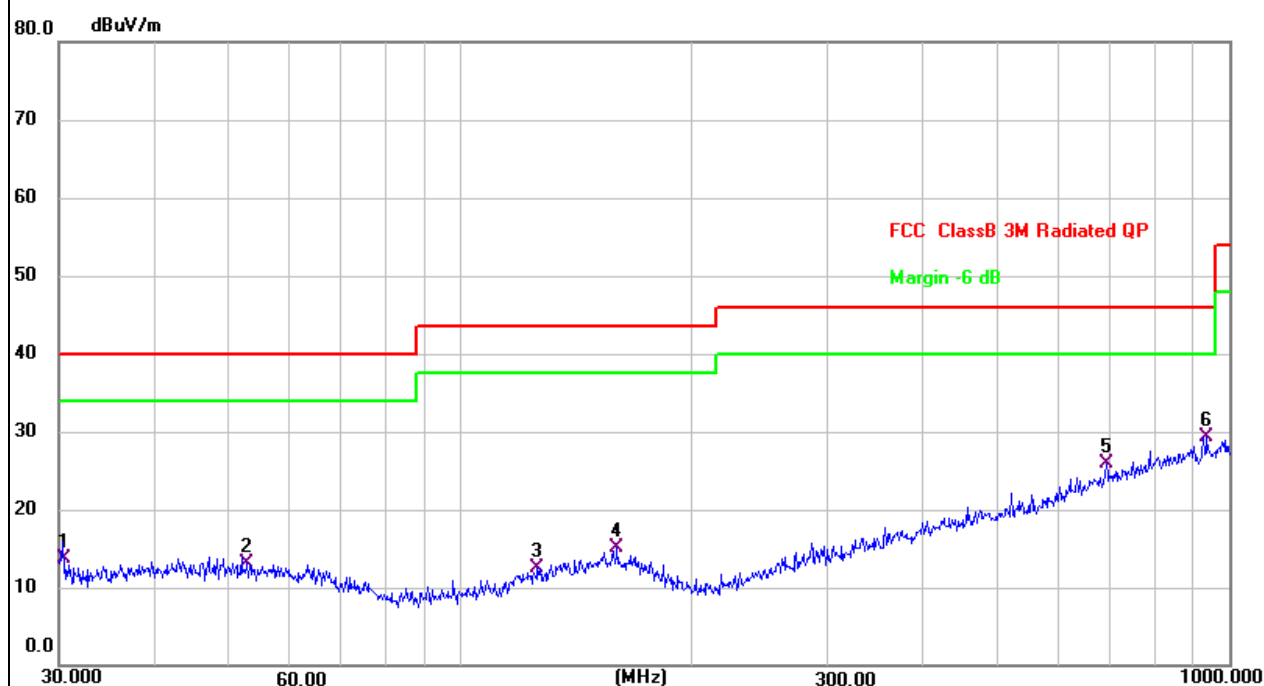
Frequency range (30MHz – 1GHz)

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Test Mode:	TX	Phase:	Vertical
Test Voltage:	DC 3.87V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.4237	31.43	-15.25	16.18	40.00	-23.82	QP
2	56.0007	28.75	-14.37	14.38	40.00	-25.62	QP
3	139.3611	28.20	-14.16	14.04	43.50	-29.46	QP
4	171.3925	27.58	-13.59	13.99	43.50	-29.51	QP
5	423.5402	27.36	-8.68	18.68	46.00	-27.32	QP
6 *	665.8034	26.79	-2.30	24.49	46.00	-21.51	QP

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Test Mode:	TX	Phase:	Horizontal
Test Voltage:	DC 3.87V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.5306	28.89	-15.23	13.66	40.00	-26.34	QP
2	52.7600	27.28	-14.13	13.15	40.00	-26.85	QP
3	125.8863	27.57	-15.08	12.49	43.50	-31.01	QP
4	159.7844	28.30	-13.27	15.03	43.50	-28.47	QP
5	691.9865	27.76	-1.86	25.90	46.00	-20.10	QP
6 *	935.5463	27.90	1.48	29.38	46.00	-16.62	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)	Detector Type	Comment
Low Channel (2412 MHz)--Above 1G									
4824.161	43.55	4.83	33.6	30.80	51.18	74.00	-22.82	Pk	Vertical
4824.161	31.90	4.83	33.6	30.80	39.53	54.00	-14.47	AV	Vertical
7236.396	42.42	5.85	37.45	31.50	54.22	74.00	-19.78	Pk	Vertical
7236.396	32.15	5.85	37.45	31.50	43.95	54.00	-10.05	AV	Vertical
4824.154	43.41	4.83	33.6	30.80	51.04	74.00	-22.96	Pk	Horizontal
4824.154	31.90	4.83	33.6	30.80	39.53	54.00	-14.47	AV	Horizontal
7236.168	43.59	5.85	37.45	31.50	55.39	74.00	-18.61	Pk	Horizontal
7236.168	32.11	5.85	37.45	31.50	43.91	54.00	-10.09	AV	Horizontal
Middle Channel (2437 MHz)--Above 1G									
4874.112	42.70	4.88	33.75	30.80	50.53	74.00	-23.47	Pk	Vertical
4874.112	31.83	4.88	33.75	30.80	39.66	54.00	-14.34	AV	Vertical
7311.247	44.60	5.90	38.10	31.59	57.01	74.00	-16.99	Pk	Vertical
7311.247	32.60	5.90	38.10	31.59	45.01	54.00	-8.99	AV	Vertical
4874.132	43.78	4.88	33.75	30.80	51.61	74.00	-22.39	Pk	Horizontal
4874.132	31.92	4.88	33.75	30.80	39.75	54.00	-14.25	AV	Horizontal
7311.085	44.12	5.90	38.10	31.59	56.53	74.00	-17.47	Pk	Horizontal
7311.085	32.74	5.90	38.10	31.59	45.15	54.00	-8.85	AV	Horizontal
High Channel (2462 MHz)--Above 1G									
4924.169	43.13	4.93	34.04	30.08	52.02	74.00	-21.98	Pk	Vertical
4924.169	32.18	4.93	34.04	30.08	41.07	54.00	-12.93	AV	Vertical
7386.215	43.62	6.01	37.90	31.74	55.79	74.00	-18.21	Pk	Vertical
7386.215	32.37	6.01	37.90	31.74	44.54	54.00	-9.46	AV	Vertical
4924.045	44.23	4.93	34.04	30.08	53.12	74.00	-20.88	Pk	Horizontal
4924.045	32.07	4.93	34.04	30.08	40.96	54.00	-13.04	AV	Horizontal
7386.132	43.64	6.01	37.90	31.74	55.81	74.00	-18.19	Pk	Horizontal
7386.132	32.60	6.01	37.90	31.74	44.77	54.00	-9.23	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 802.11b mode 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	46.06	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.57	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.94	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	45.55	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.49	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.30	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	46.70	3.46	27.80	32.54	45.42	74	-28.58	Pk	Vertical
2400.00	34.36	3.46	27.80	32.54	33.08	54	-20.92	AV	Vertical
2400.00	46.03	3.46	27.80	32.54	44.75	74	-29.25	Pk	Horizontal
2400.00	34.45	3.46	27.80	32.54	33.17	54	-20.83	AV	Horizontal
2483.50	47.24	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical
2483.50	33.89	3.48	28.53	32.55	33.28	54	-20.72	AV	Vertical
2483.50	46.26	3.48	28.53	32.55	45.56	74	-28.44	Pk	Horizontal
2483.50	33.89	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.40	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.99	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.21	3.49	29.20	32.66	45.21	74	-28.79	Pk	Horizontal
2500.00	33.76	3.49	29.20	32.66	33.66	54	-20.34	AV	Horizontal
802.11g									
2310.00	46.18	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.40	3.40	27.80	32.41	32.07	54	-21.93	AV	Horizontal
2310.00	44.80	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	45.74	3.45	27.70	32.49	44.10	74	-29.90	Pk	Vertical
2390.00	34.44	3.45	27.70	32.49	33.01	54	-20.99	AV	Vertical
2390.00	46.39	3.45	27.70	32.49	44.79	74	-29.21	Pk	Horizontal
2390.00	34.37	3.45	27.70	32.49	32.99	54	-21.01	AV	Horizontal
2400.00	46.78	3.46	27.80	32.54	45.50	74	-28.50	Pk	Vertical
2400.00	34.54	3.46	27.80	32.54	33.26	54	-20.74	AV	Vertical
2400.00	45.93	3.46	27.80	32.54	44.65	74	-29.35	Pk	Horizontal
2400.00	34.33	3.46	27.80	32.54	33.05	54	-20.95	AV	Horizontal
2483.50	47.14	3.48	28.53	32.55	46.51	74	-27.49	Pk	Vertical
2483.50	33.82	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	33.73	3.48	28.53	32.55	33.17	54	-20.83	AV	Horizontal
2500.00	45.48	3.49	29.20	32.66	45.27	74	-28.73	Pk	Vertical
2500.00	33.73	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.40	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
802.11n20									
2310.00	45.90	3.40	27.80	32.41	44.69	74	-29.31	Pk	Horizontal
2310.00	33.52	3.40	27.80	32.41	32.31	54	-21.69	AV	Horizontal
2310.00	44.88	3.40	27.80	32.41	43.67	74	-30.33	Pk	Vertical
2310.00	33.43	3.40	27.80	32.41	32.22	54	-21.78	AV	Vertical
2390.00	45.70	3.45	27.70	32.49	44.36	74	-29.64	Pk	Vertical
2390.00	34.39	3.45	27.70	32.49	33.05	54	-20.95	AV	Vertical
2390.00	46.18	3.45	27.70	32.49	44.84	74	-29.16	Pk	Horizontal
2390.00	34.35	3.45	27.70	32.49	33.01	54	-20.99	AV	Horizontal
2400.00	46.55	3.46	27.80	32.54	45.27	74	-28.73	Pk	Vertical
2400.00	34.33	3.46	27.80	32.54	33.05	54	-20.95	AV	Vertical
2400.00	45.79	3.46	27.80	32.54	44.51	74	-29.49	Pk	Horizontal
2400.00	34.54	3.46	27.80	32.54	33.26	54	-20.74	AV	Horizontal
2483.50	47.23	3.48	28.53	32.55	46.69	74	-27.31	Pk	Vertical
2483.50	34.00	3.48	28.53	32.55	33.46	54	-20.54	AV	Vertical
2483.50	46.33	3.48	28.53	32.55	45.79	74	-28.21	Pk	Horizontal
2483.50	34.00	3.48	28.53	32.55	33.46	54	-20.54	AV	Horizontal
2500.00	45.25	3.49	29.20	32.66	45.28	74	-28.72	Pk	Vertical
2500.00	33.92	3.49	29.20	32.66	33.95	54	-20.05	AV	Vertical
2500.00	45.32	3.49	29.20	32.66	45.35	74	-28.65	Pk	Horizontal
2500.00	33.90	3.49	29.20	32.66	33.93	54	-20.07	AV	Horizontal
802.11n40									
2310.00	45.93	3.40	27.80	32.41	44.72	74	-29.28	Pk	Horizontal
2310.00	33.42	3.40	27.80	32.41	32.21	54	-21.79	AV	Horizontal
2310.00	44.75	3.40	27.80	32.41	43.54	74	-30.46	Pk	Vertical
2310.00	33.68	3.40	27.80	32.41	32.47	54	-21.53	AV	Vertical
2390.00	45.59	3.45	27.70	32.49	44.25	74	-29.75	Pk	Vertical
2390.00	34.48	3.45	27.70	32.49	33.14	54	-20.86	AV	Vertical
2390.00	46.36	3.45	27.70	32.49	45.02	74	-28.98	Pk	Horizontal
2390.00	34.48	3.45	27.70	32.49	33.14	54	-20.86	AV	Horizontal
2400.00	46.70	3.46	27.80	32.54	45.42	74	-28.58	Pk	Vertical
2400.00	34.51	3.46	27.80	32.54	33.23	54	-20.77	AV	Vertical
2400.00	45.90	3.46	27.80	32.54	44.62	74	-29.38	Pk	Horizontal
2400.00	34.31	3.46	27.80	32.54	33.03	54	-20.97	AV	Horizontal
2483.50	47.14	3.48	28.53	32.55	46.60	74	-27.40	Pk	Vertical

2483.50	34.02	3.48	28.53	32.55	33.48	54	-20.52	AV	Vertical
2483.50	46.28	3.48	28.53	32.55	45.74	74	-28.26	Pk	Horizontal
2483.50	33.92	3.48	28.53	32.55	33.38	54	-20.62	AV	Horizontal
2500.00	45.31	3.49	29.20	32.66	45.34	74	-28.66	Pk	Vertical
2500.00	33.70	3.49	29.20	32.66	33.73	54	-20.27	AV	Vertical
2500.00	45.40	3.49	29.20	32.66	45.43	74	-28.57	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 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)	Detector Type	Comment
3260	44.20	3.89	30.04	32.85	45.28	74	-28.72	Pk	Vertical
3260	33.47	3.89	30.04	32.85	34.55	54	-19.45	AV	Vertical
3260	44.22	3.89	30.04	32.85	45.30	74	-28.70	Pk	Horizontal
3260	33.38	3.89	30.04	32.85	34.46	54	-19.54	AV	Horizontal
5332	43.22	5.00	34.03	31.00	51.25	74	-22.75	Pk	Vertical
5332	30.26	5.00	34.03	31.00	38.29	54	-15.71	AV	Vertical
5332	43.26	5.00	34.03	31.00	51.29	74	-22.71	Pk	Horizontal
5332	30.41	5.00	34.03	31.00	38.44	54	-15.56	AV	Horizontal
12500	44.66	8.46	39.30	31.30	61.12	74	-12.88	Pk	Vertical
12500	32.46	8.46	39.30	31.30	48.92	54	-5.08	AV	Vertical
12500	44.77	8.46	39.30	31.30	61.23	74	-12.77	Pk	Horizontal
12500	32.37	8.46	39.30	31.30	48.83	54	-5.17	AV	Horizontal

5.4 Peak Output Power

5.4.1 Limit

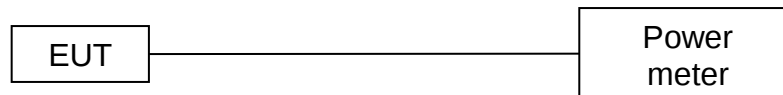
FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.4.2 Test Procedure

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:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Test Mode:	TX	Test Voltage:	DC 3.87V from battery

802.11b

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	16.67	30
CH06	2437	16.17	30
CH11	2462	16.27	30

802.11g

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	16.65	30
CH06	2437	16.16	30
CH11	2462	16.93	30

802.11n20

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	16.51	30
CH06	2437	16.39	30
CH11	2462	16.74	30

802.11n40

Test Channel	Frequency (MHz)	Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH03	2422	16.49	30
CH06	2437	16.13	30
CH09	2452	16.01	30

5.5 Power Spectral Density

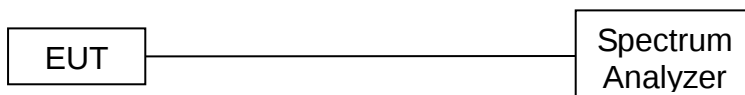
5.5.1 Limit

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

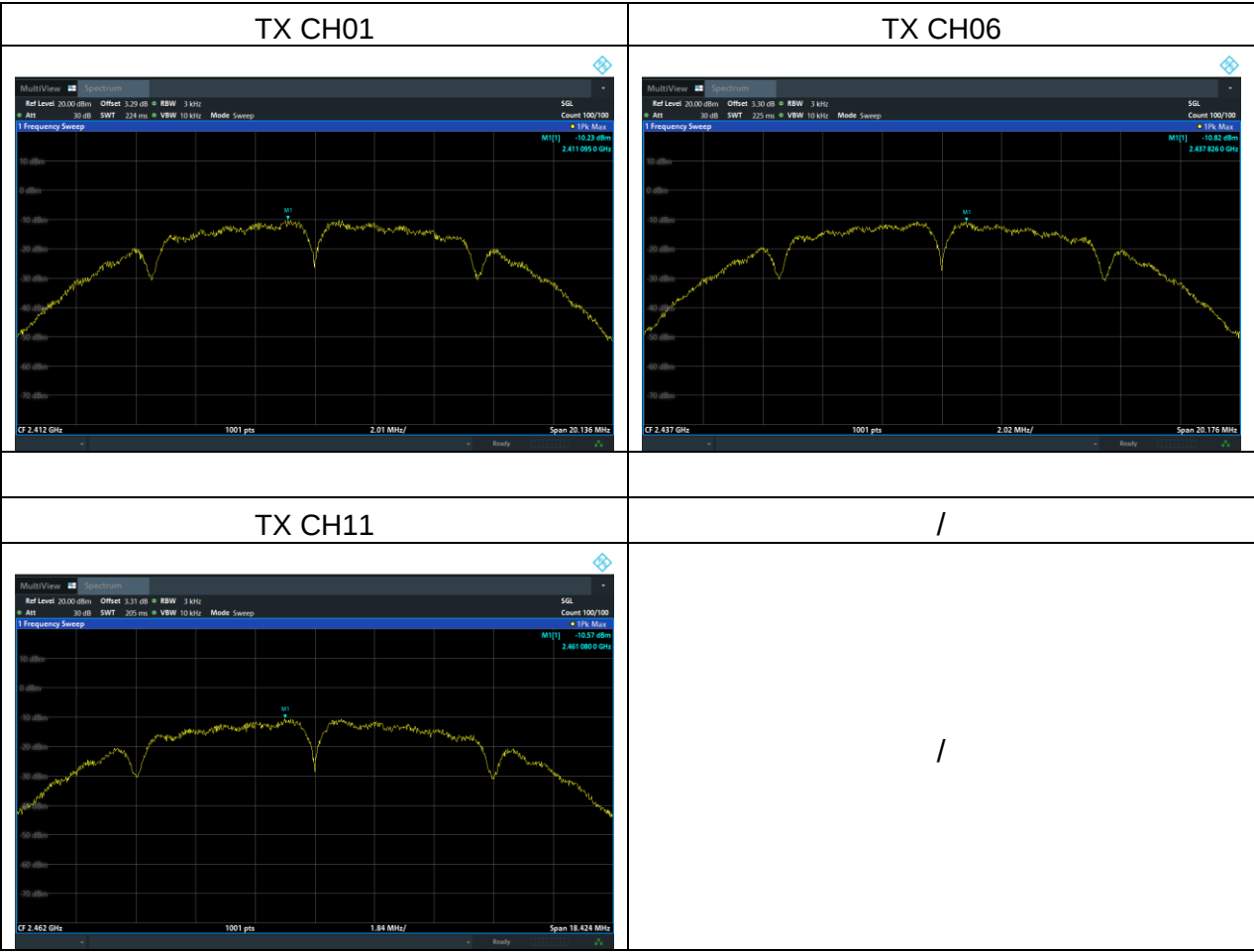
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the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

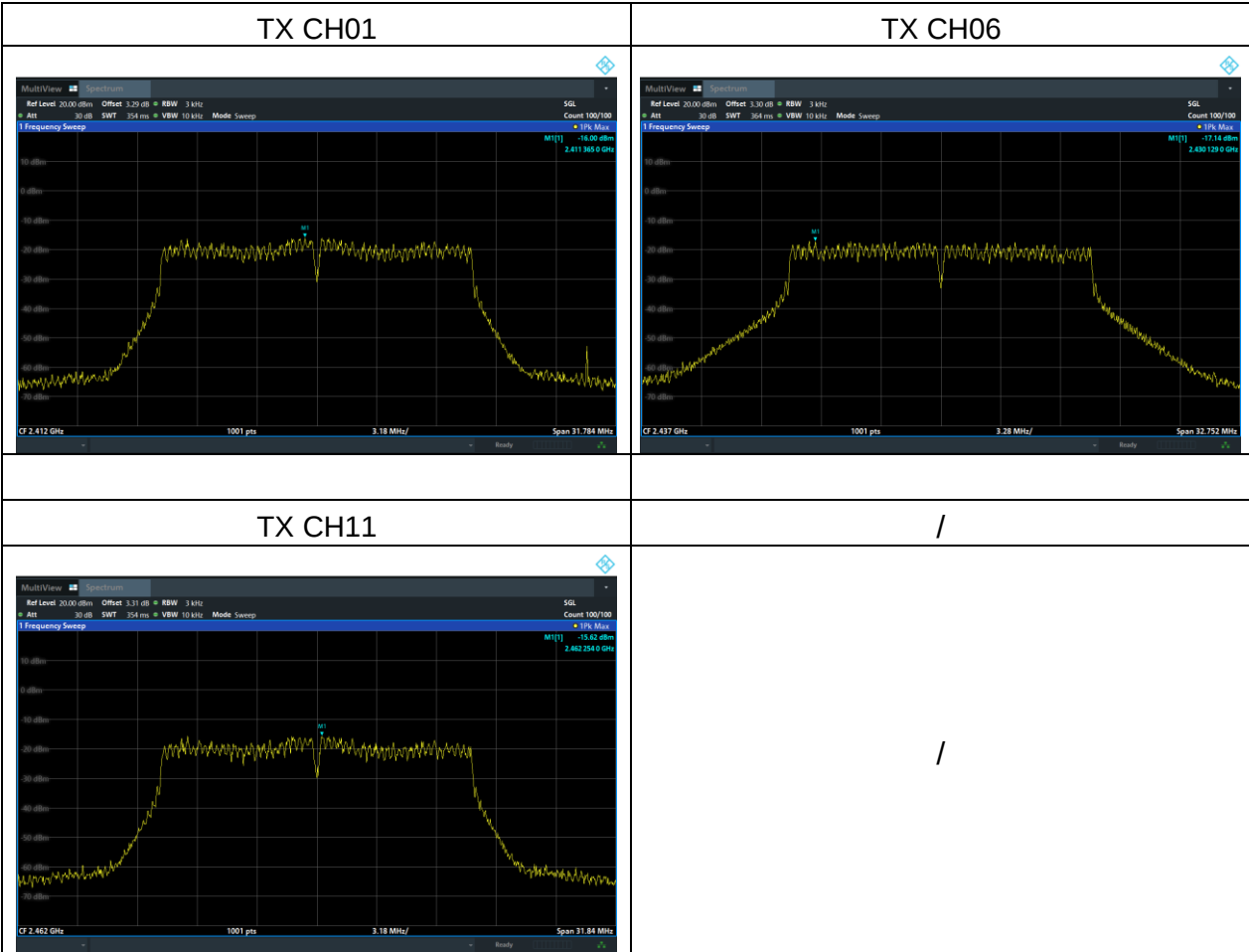


5.5.4 Test Results

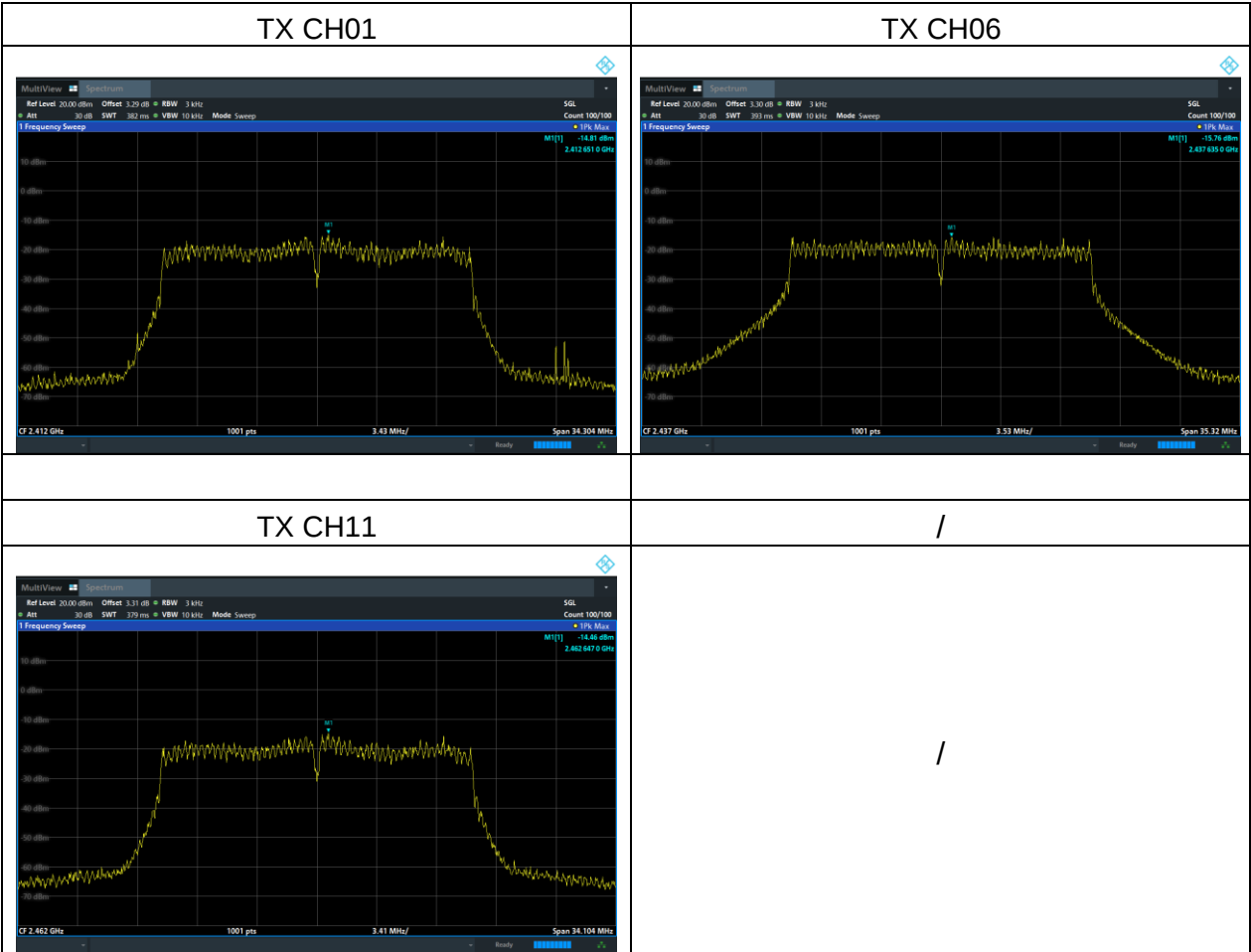
802.11b			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-10.23	8	Pass
2437 MHz	-10.82	8	Pass
2462 MHz	-10.57	8	Pass



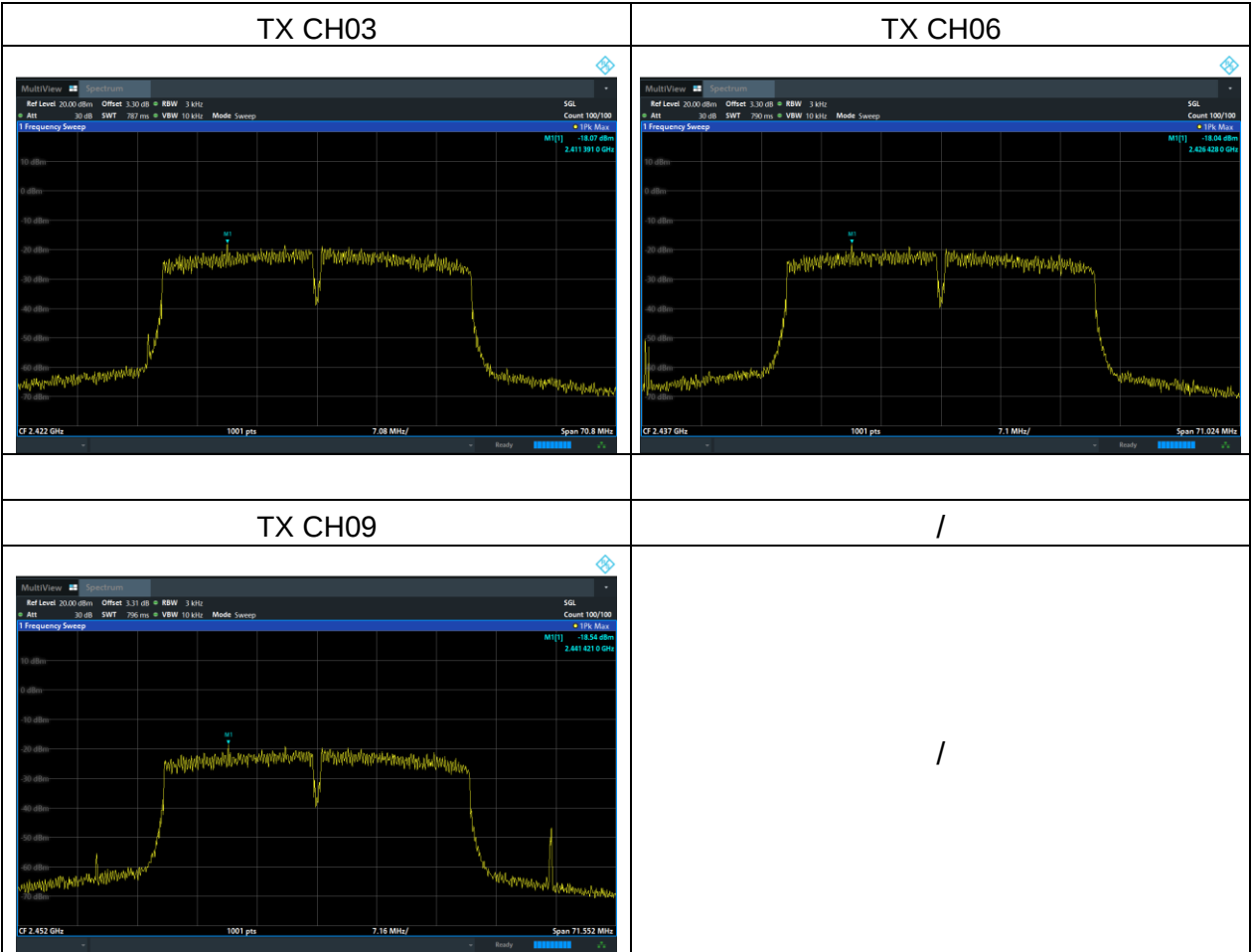
802.11g			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-16	8	Pass
2437 MHz	-17.14	8	Pass
2462 MHz	-15.62	8	Pass



802.11n20			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-14.81	8	Pass
2437 MHz	-15.76	8	Pass
2462 MHz	-14.46	8	Pass



802.11n40			
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-18.07	8	Pass
2437 MHz	-18.04	8	Pass
2452 MHz	-18.54	8	Pass



5.6 6dB Bandwidth

5.6.1 Limit

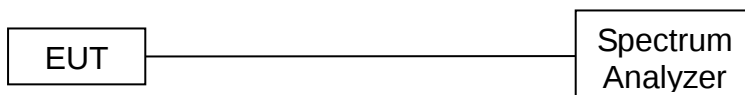
FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	$\geq 500\text{kHz}$ (6dB bandwidth)	2400-2483.5

5.6.2 Test Procedure

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 “-6dB 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

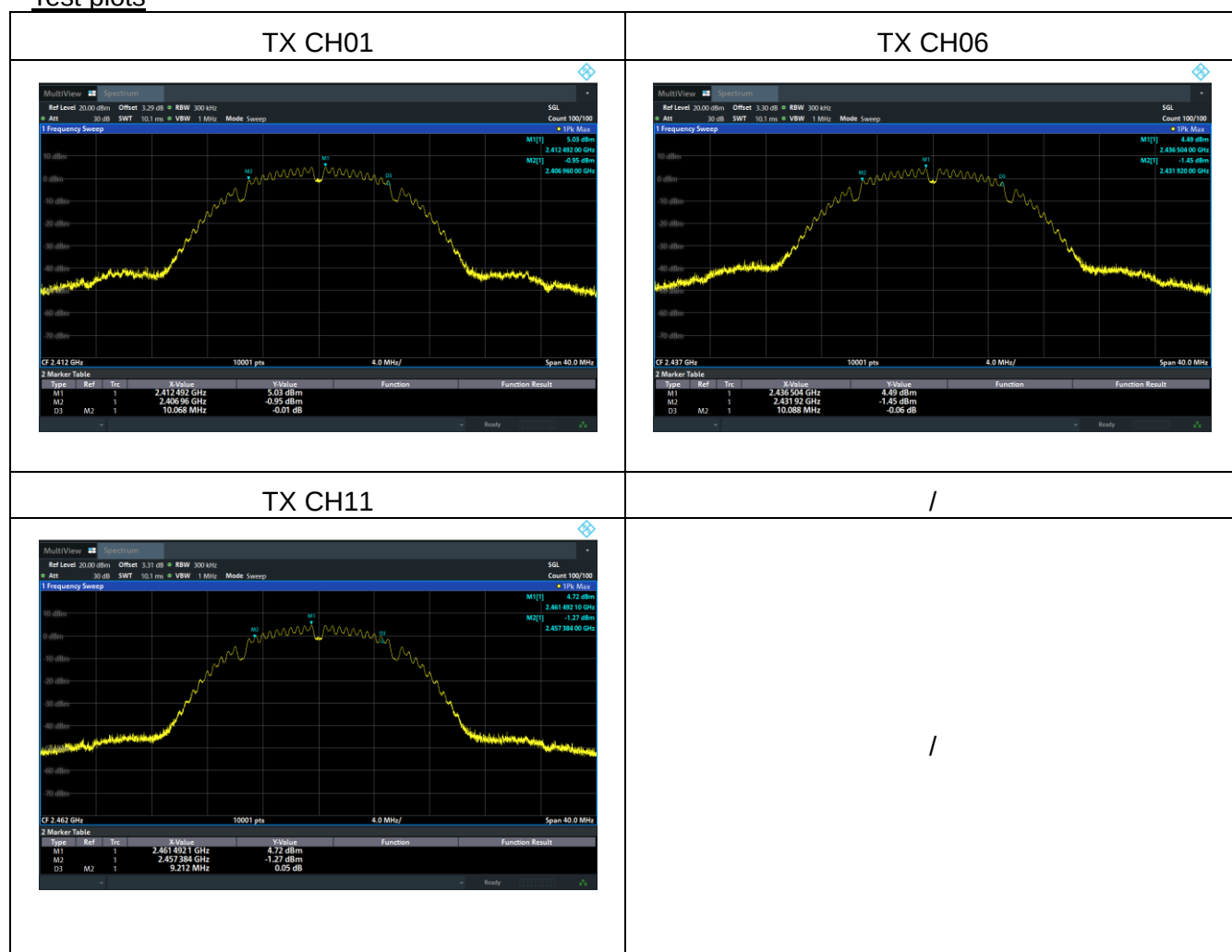


5.6.4 Test Results

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1012 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.068	500	Pass
Middle	2437	10.088	500	Pass
High	2462	9.212	500	Pass

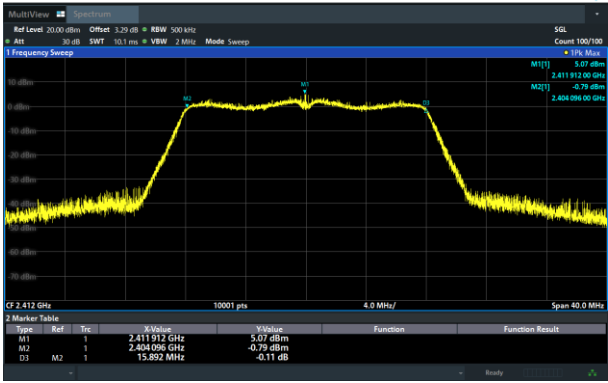
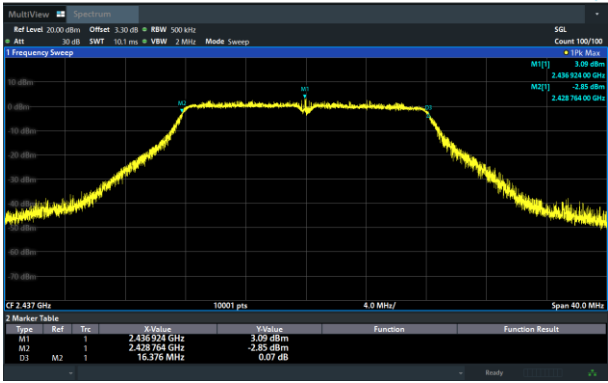
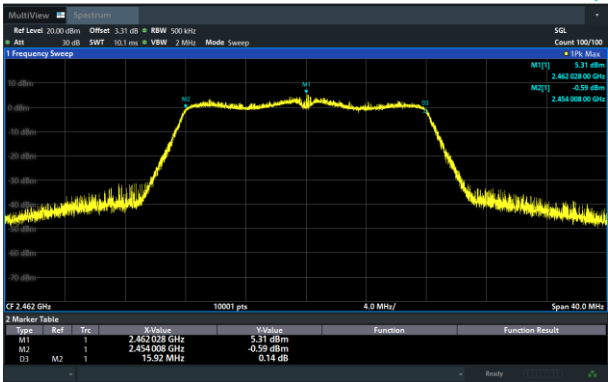
Test plots



EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1012 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	15.892	500	Pass
Middle	2437	16.376	500	Pass
High	2462	15.92	500	Pass

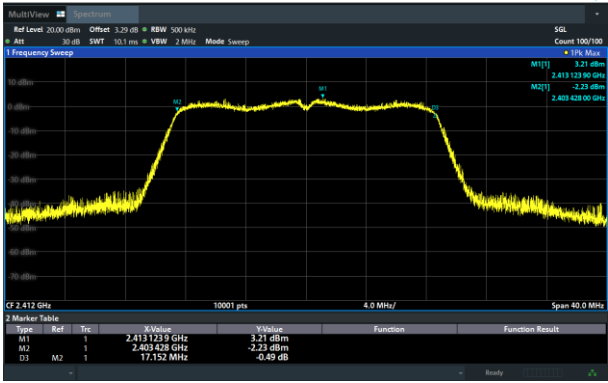
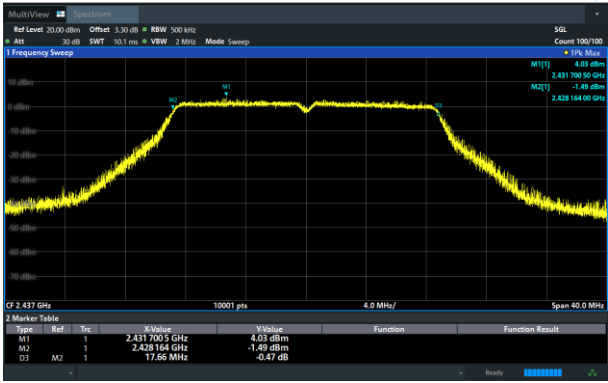
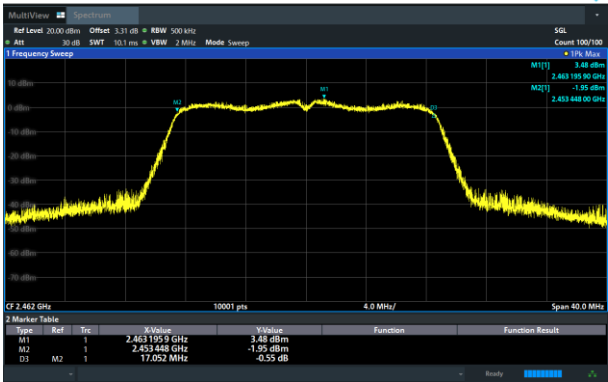
Test plots

TX CH01 	TX CH06 
TX CH11 	/

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1012 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.152	500	Pass
Middle	2437	17.66	500	Pass
High	2462	17.052	500	Pass

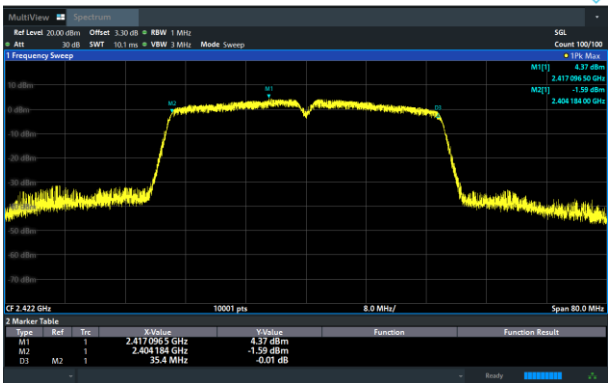
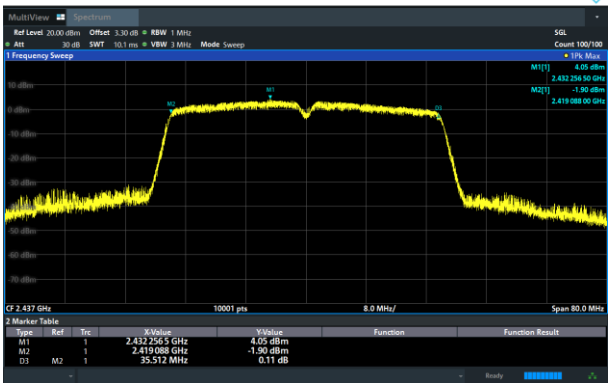
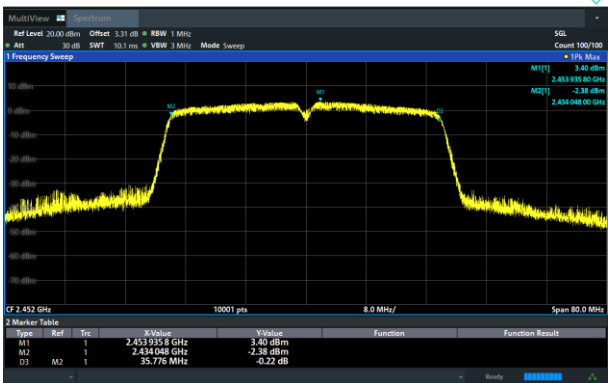
Test plots

TX CH01 	TX CH06 
TX CH11 	/ /

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1012 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	35.4	500	Pass
Middle	2437	35.512	500	Pass
High	2452	35.776	500	Pass

Test plots

TX CH03 	TX CH06 
TX CH09 	/ /

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

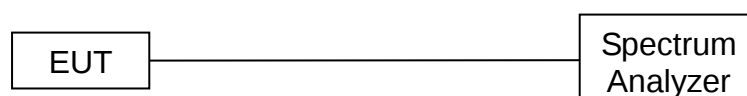
Detector function = peak

Trace = Clear write

Measure Total and Ton

Calculate Duty Cycle = $Ton / Total$

5.7.3 Test Setup



5.7.4 Test Results

EUT:	HONOR CHOICE KUMI AI Note	Model Name:	ELC-ME01
Pressure:	1012 hPa	Test Voltage:	DC 3.87V from battery
Test Mode:	TX b/g/n(20/40) Mode		

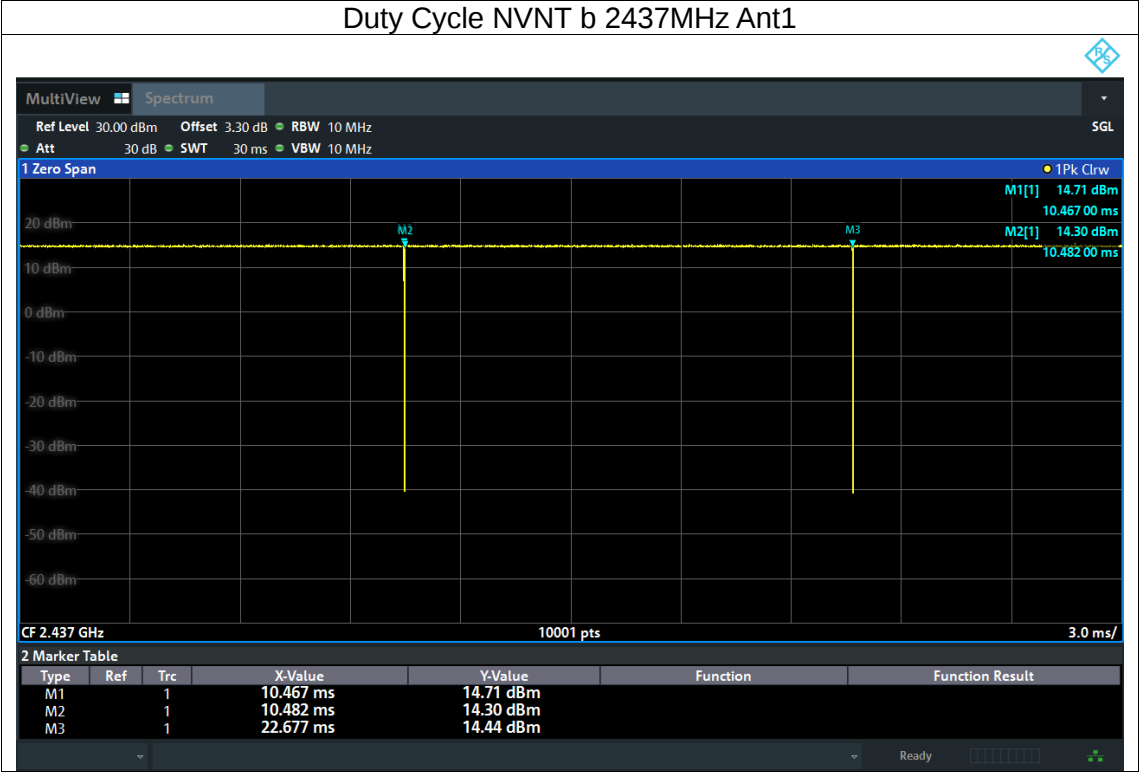
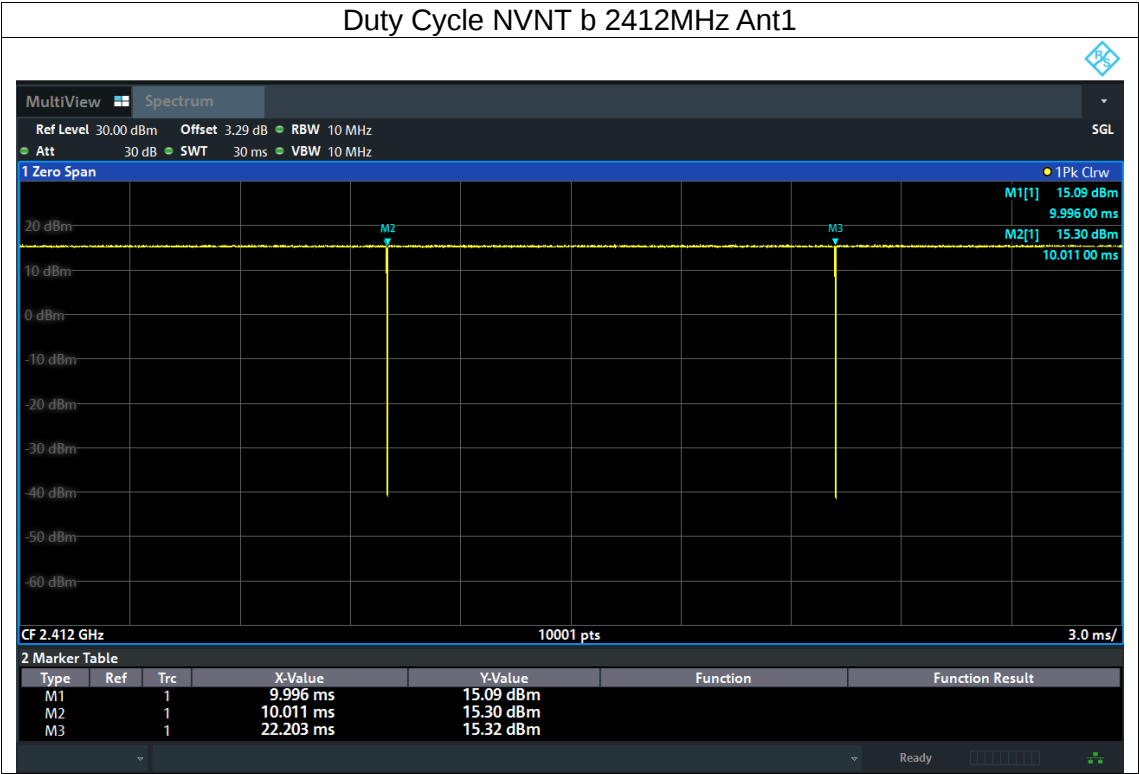
Mode	Frequency (MHz)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	12.192	12.207	99.88	0.01	0.08
b	2437	12.195	12.210	99.88	0.01	0.08
b	2462	12.192	12.210	99.85	0.01	0.08
g	2412	2.024	3.026	66.89	1.75	0.49
g	2437	2.026	3.028	66.91	1.75	0.49
g	2462	2.024	3.028	66.84	1.75	0.49
n20	2412	1.888	2.890	65.33	1.85	0.53
n20	2437	1.888	2.890	65.33	1.85	0.53
n20	2462	1.890	2.892	65.35	1.85	0.53
n40	2422	0.928	1.932	48.03	3.18	1.08
n40	2437	0.928	1.932	48.03	3.18	1.08
n40	2452	0.928	1.932	48.03	3.18	1.08

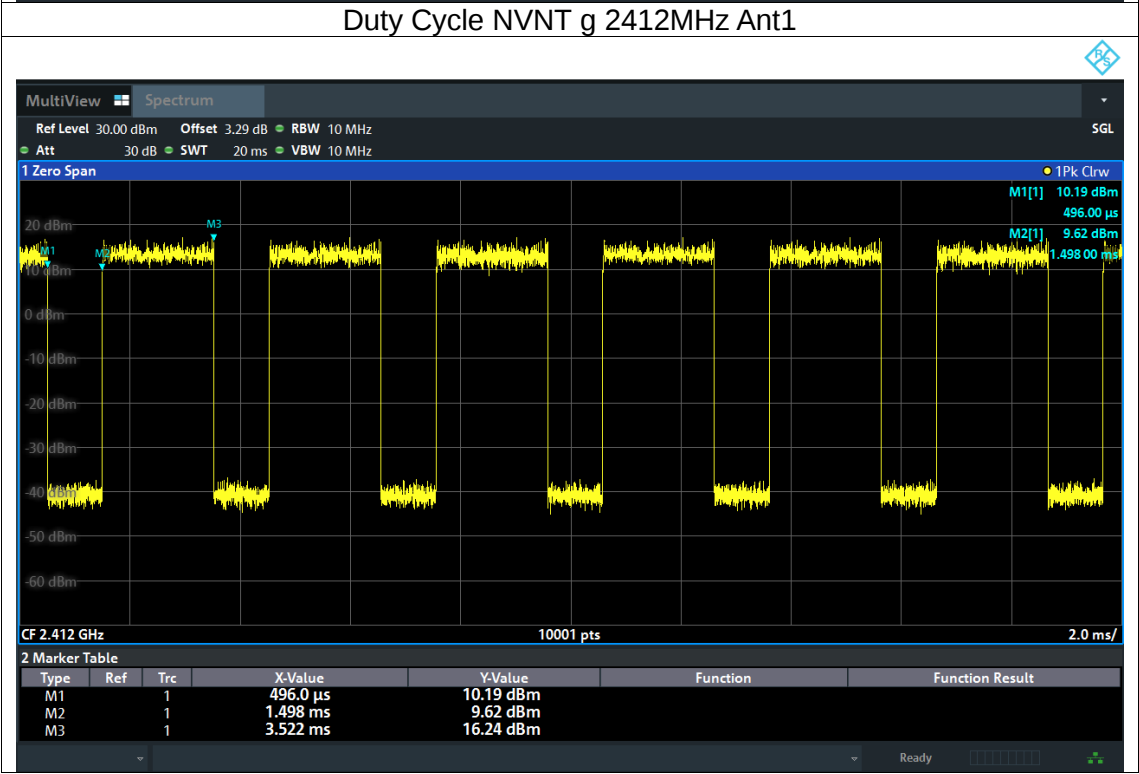
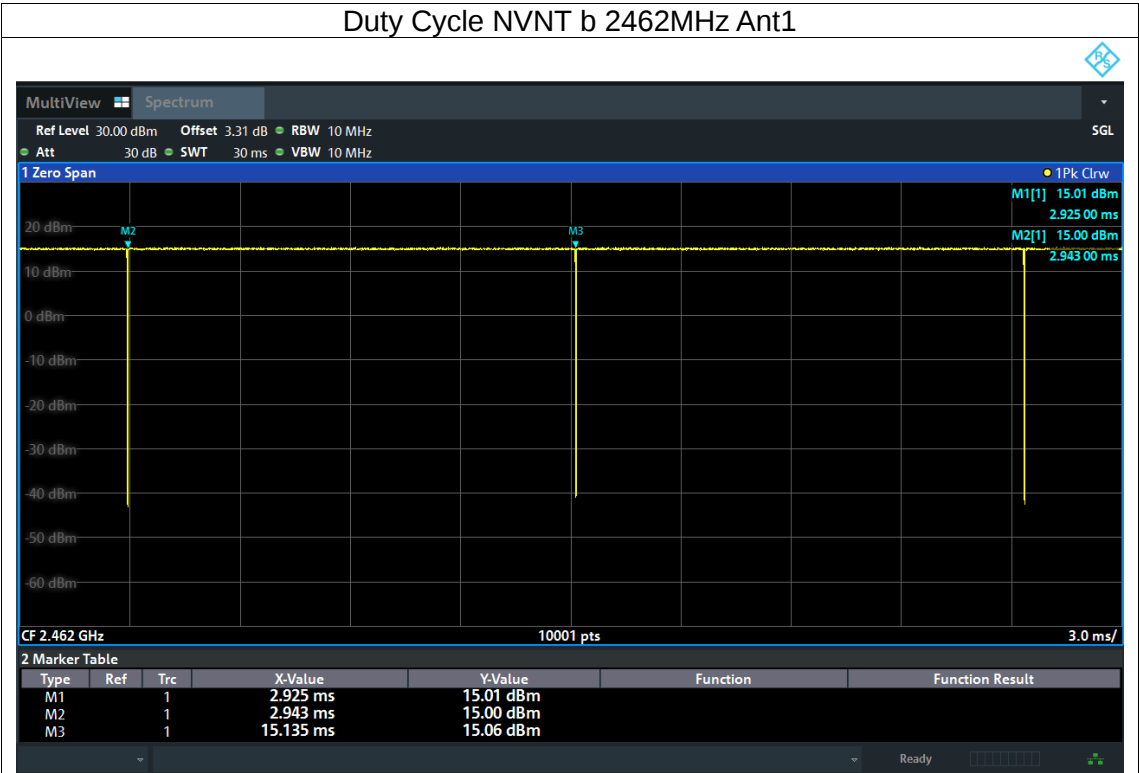
Note:

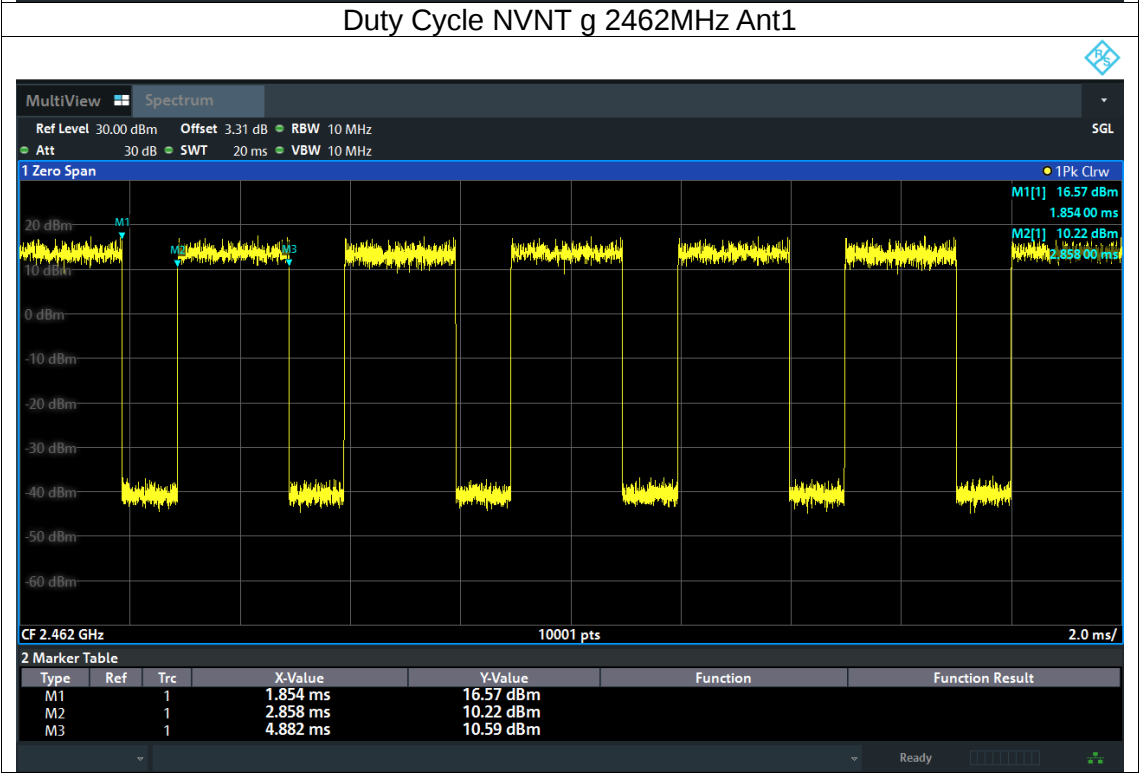
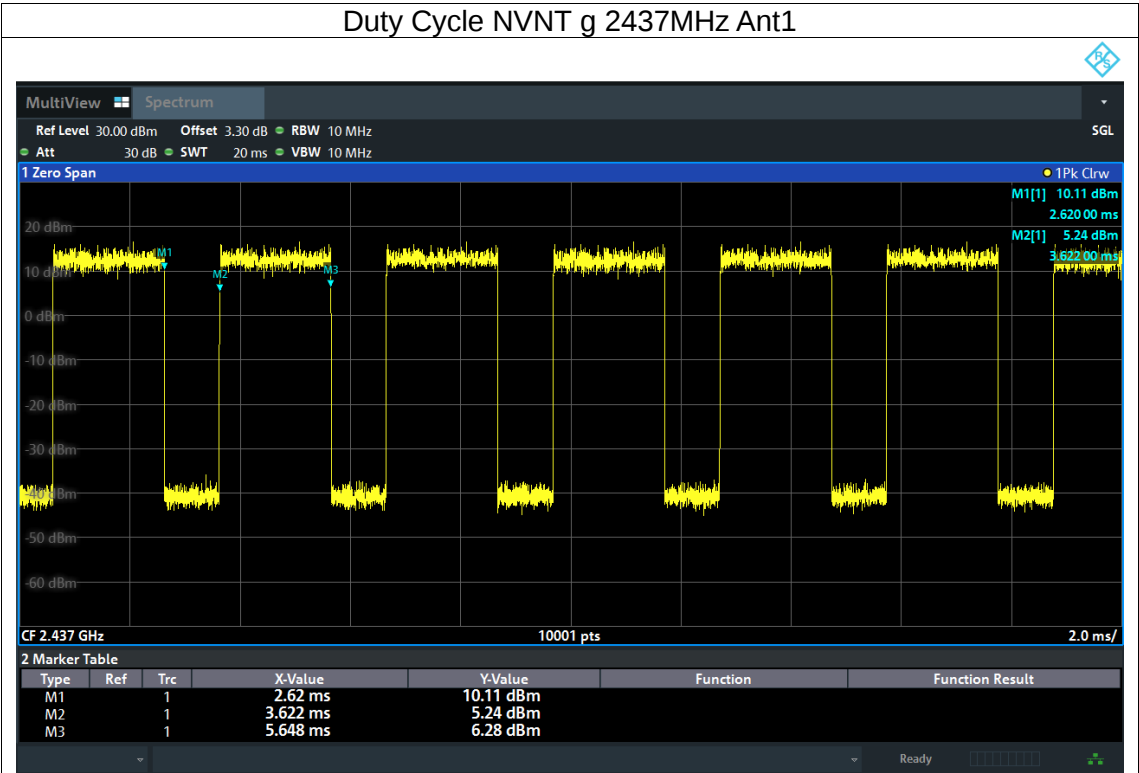
1. Duty Cycle = T_{on} / T_{total}

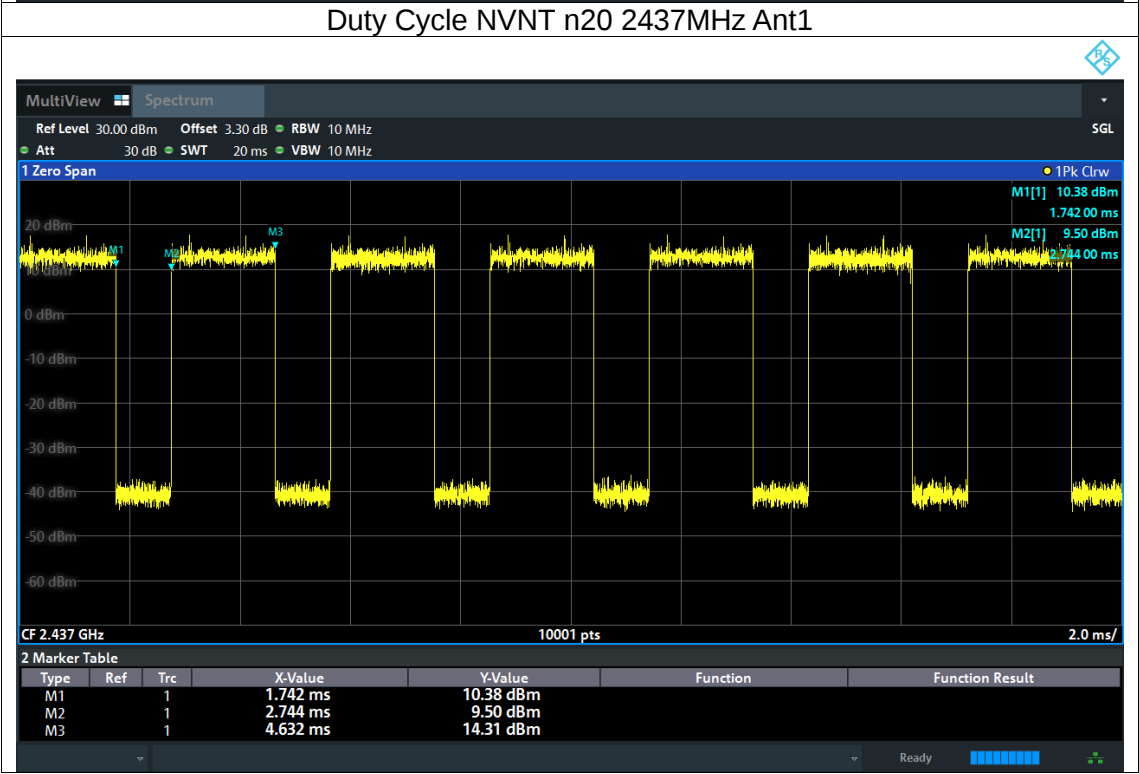
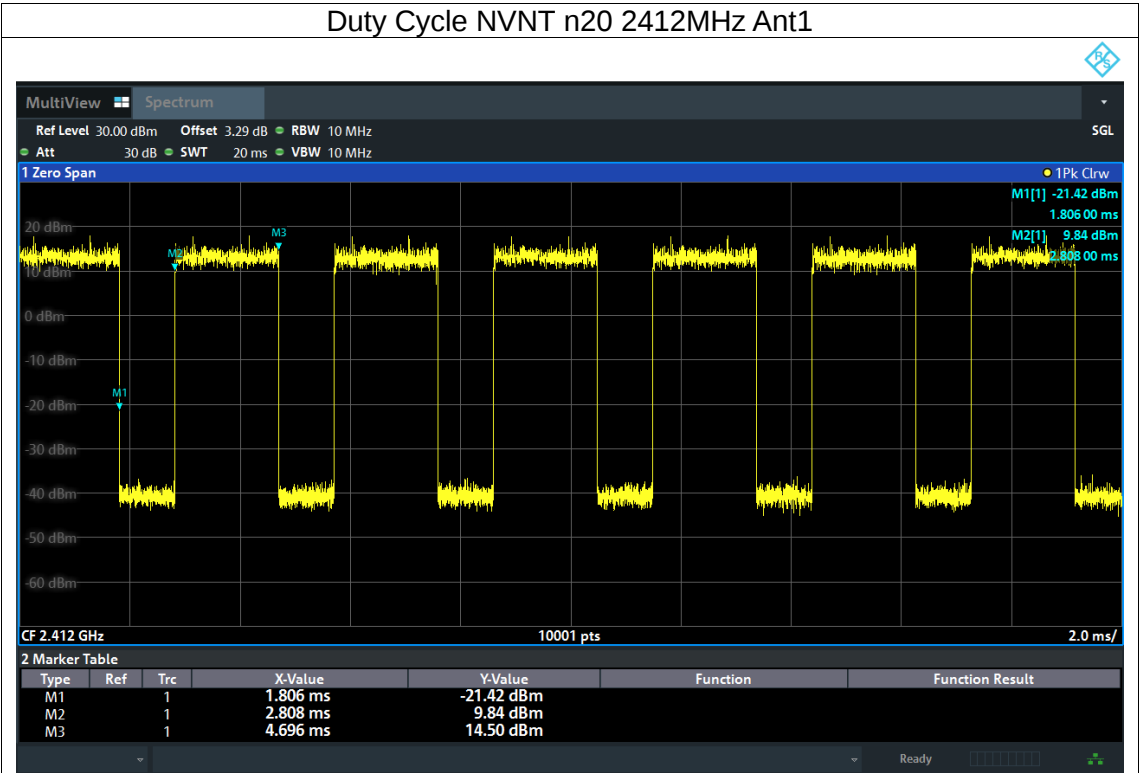
2. Correction Factor = $10 \log (1 / \text{Duty Cycle})$

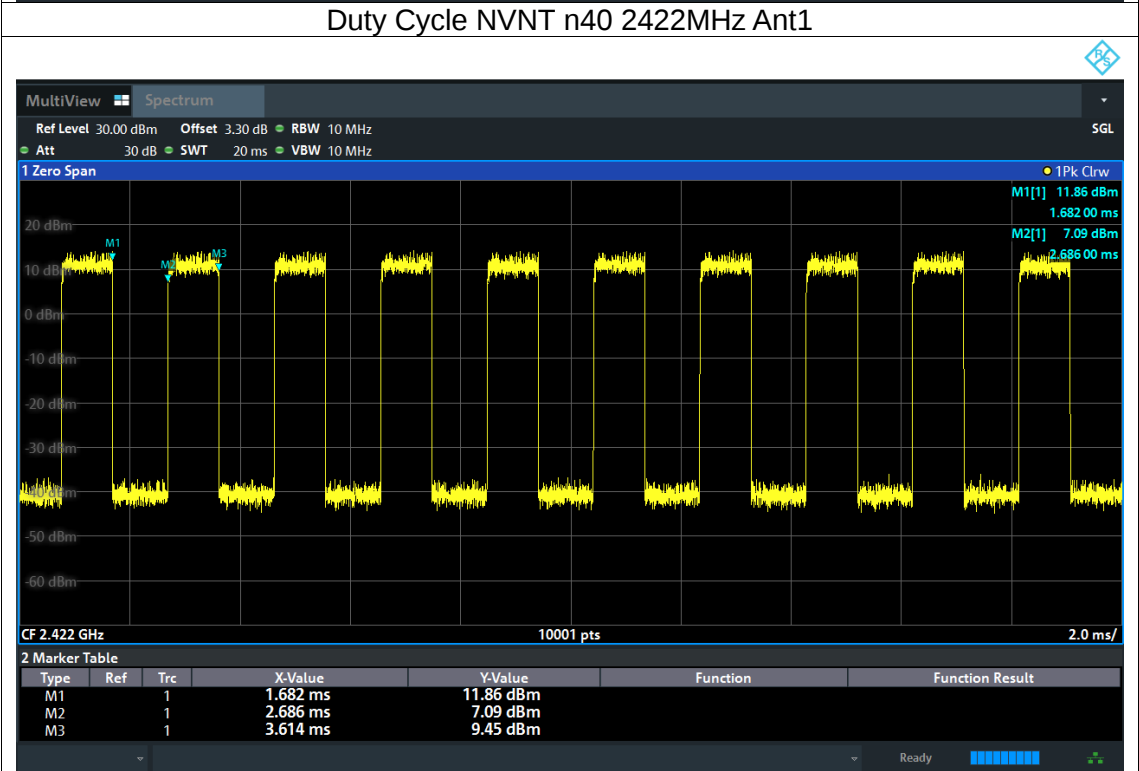
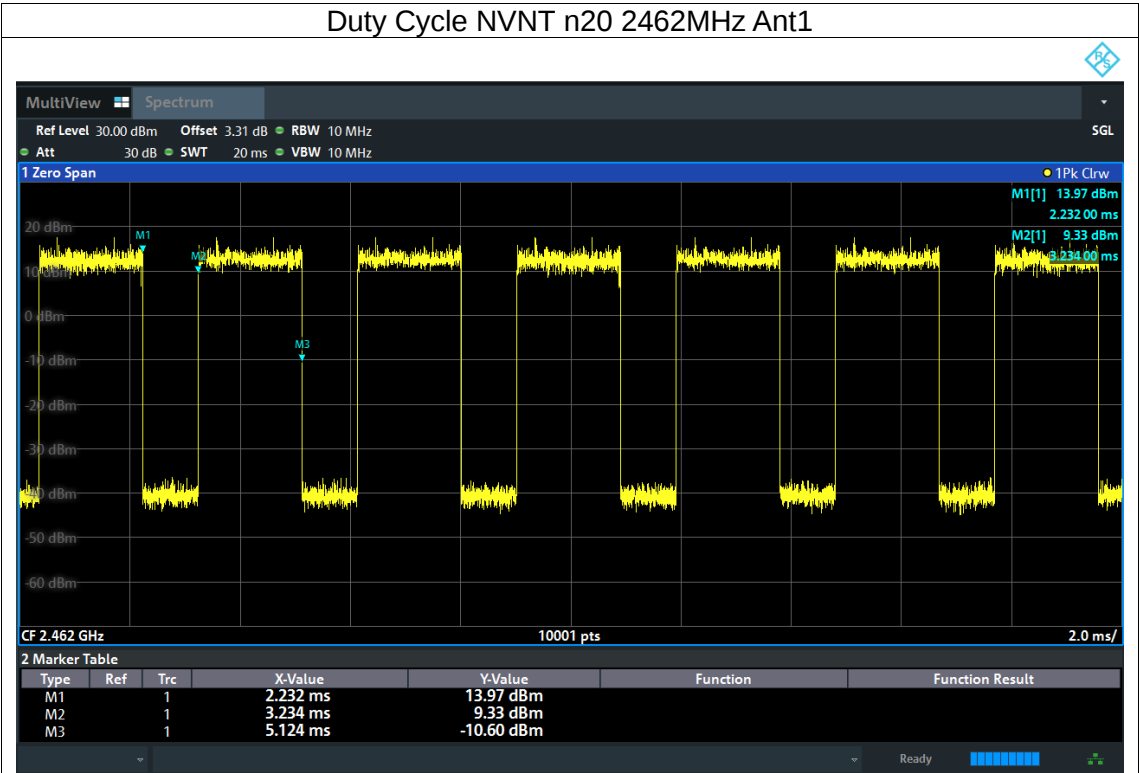
3. $1 / T = 1 / T_{on}$

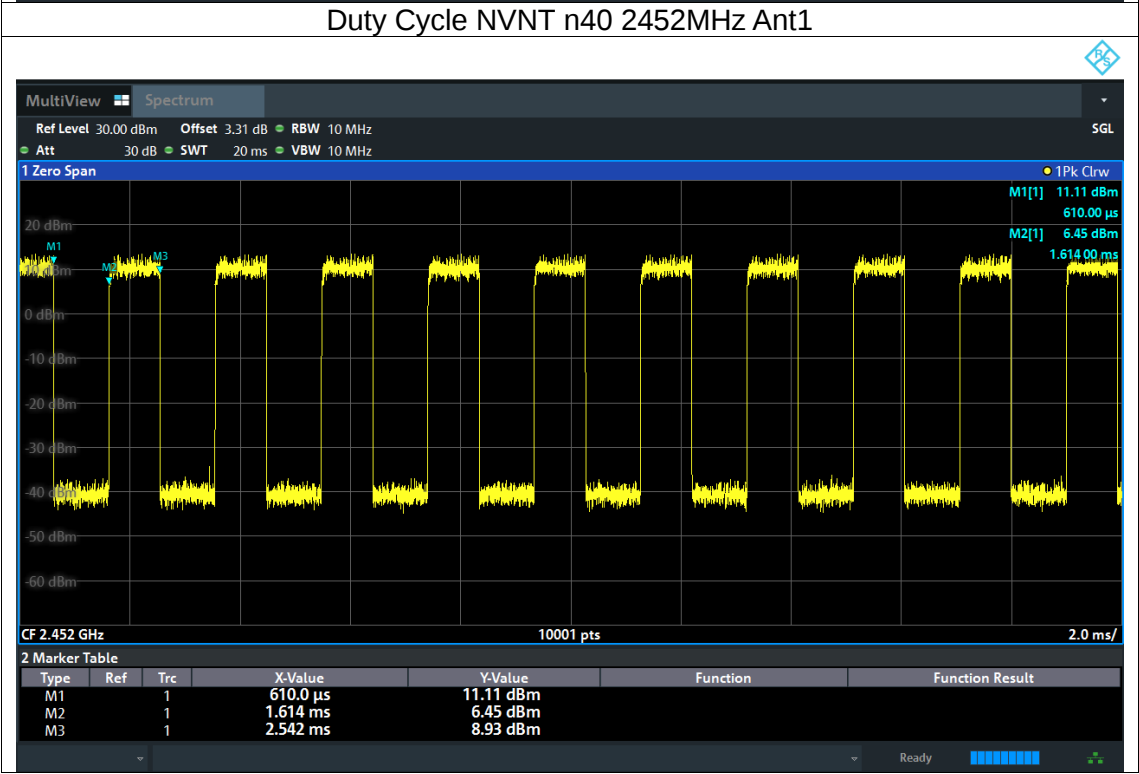
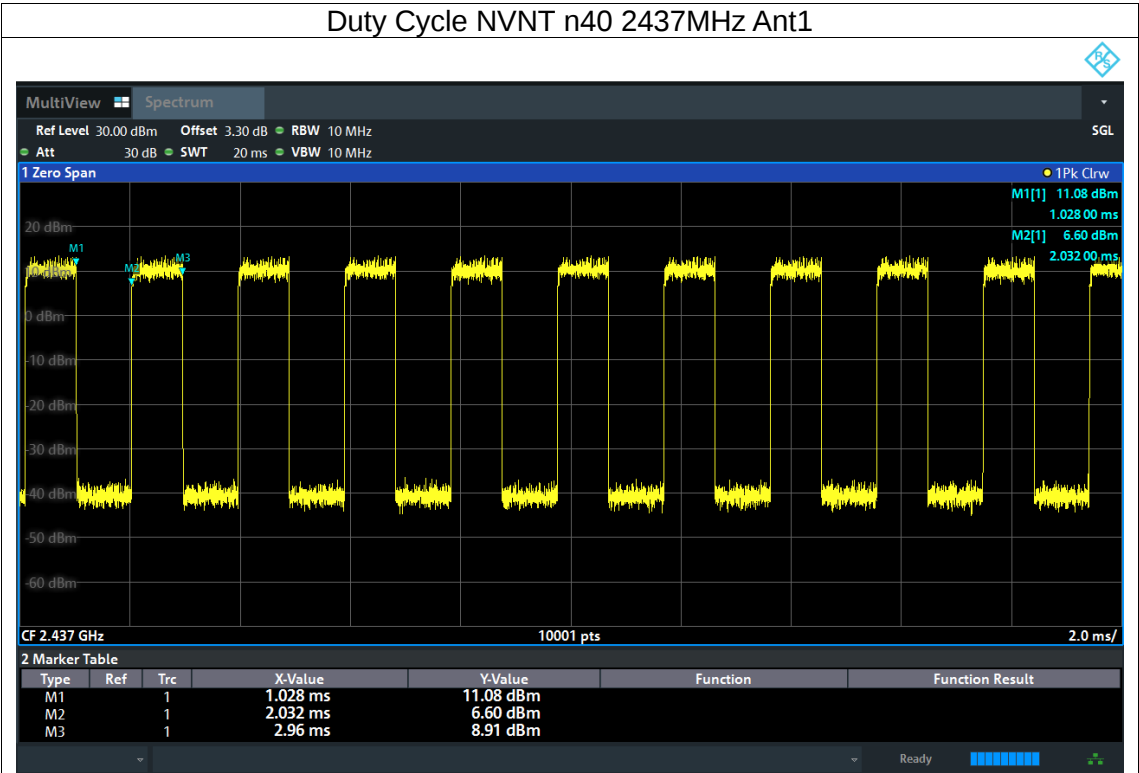












5.8 Conducted Band Edge

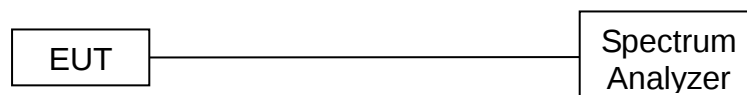
5.8.1 Limit

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

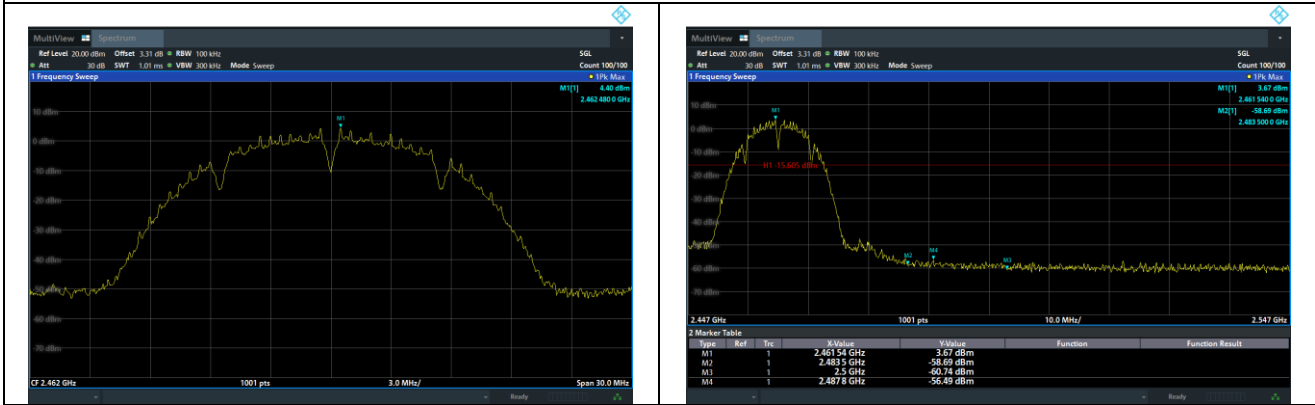


5.8.4 Test Results

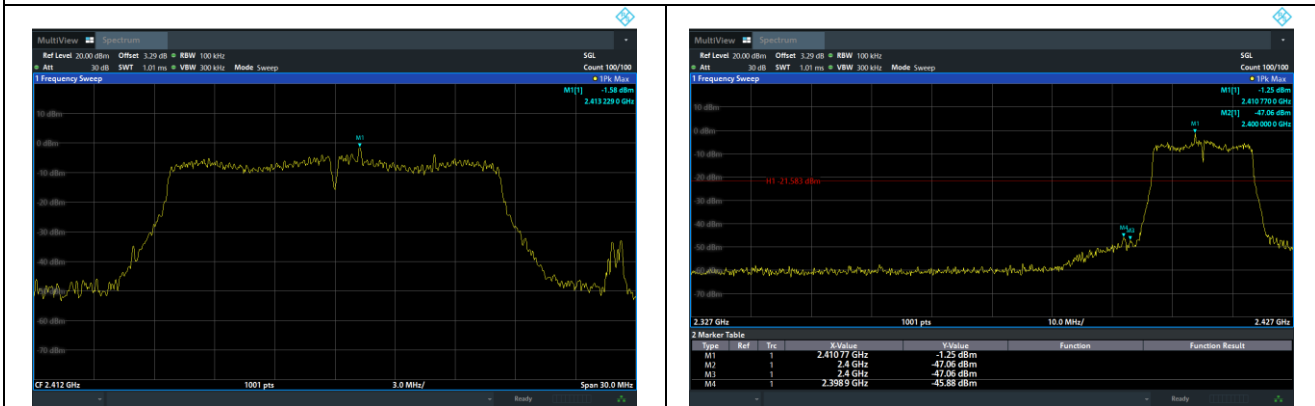
802.11b: Band Edge, Left Side



802.11b: Band Edge, Right Side



802.11g: Band Edge, Left Side



MultiView Spectrums

Ref Level: 20.00 dBm Offset: 3.31 dB RBW: 100 kHz
 Att: 20 dB SWF: 1.01 ms VBW: 300 kHz Mode: Sweep

1 Frequency Sweep

140 dBm
 120 dBm
 100 dBm
 80 dBm
 60 dBm
 40 dBm
 20 dBm
 0 dBm
 -20 dBm
 -40 dBm
 -60 dBm
 -70 dBm

2.437 GHz 1001 ps 10.0 MHz 2.547 GHz

M1 -21.650 dBm
 M2 -57.16 dBm
 M3 -59.55 dBm

Count 100100
 > 10% Max

M1() -2.99 dB
 2.457 000 G
 M2() -57.16 dB
 2.483 500 G

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1	1		2.457 04 GHz	-21.65 dBm		
M2	1		2.483 5 GHz	-57.16 dBm		
M3	1		2.5 GHz	-59.55 dBm		
M4	1		2.483 7 GHz	-55.14 dBm		

MultiView | Spectrums

Ref Level: 20.00 dBm Offset: 3.29 dB BW: 100 kHz SGL

Att: 20 dB SWT: 1.01 ms VBW: 300 kHz Cov: 100.00%

Mode: Save

Frequency Sweep

10 dBm

2 dBm

10 dBm

20 dBm

30 dBm

40 dBm

50 dBm

60 dBm

70 dBm

2.327 GHz 1001 pts 10.0 MHz 2.427 GHz

Marker Table

Type	Ref	Freq	Value	Unit	Function	Function Result
M1	1	2.31706 GHz	-3.31	dBm		
M2	1	2.4 GHz	-48.93	dBm		
M3	1	2.4 GHz	-48.93	dBm		
M4	1	2.3952 GHz	-44.50	dBm		

MultiView | Spectrums

Ref Level: 20.00 dBm Offset: 3.31 dB RBW: 100 kHz
Att: 87 dB SWT: 1.01 ms VBW: 300 kHz Mode: Sweep SGL

Count: 1001760 X 19% Mag

Frequency Sweep

M1: -22.087 dBm

M2: -56.04 dBm
M3: -59.89 dBm
M4: -54.53 dBm

2.483 GHz 1001 pts 10.0 MHz 2.547 GHz

Type	Ref	Freq	X-Value	Y-Value	Function	Function Result
M1	1	2.48454 GHz	-22.087 dBm			
M2	1	2.48315 GHz	-56.04 dBm			
M3	1	2.5 GHz	-59.89 dBm			
M4	1	2.4839 GHz	-54.53 dBm			

802.11n40: Band Edge, Left Side



802.11n40: Band Edge, Right Side



5.9 Spurious RF Conducted Emissions

5.9.1 Limit

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

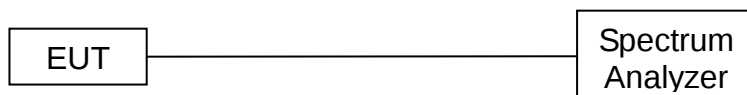
5.9.2 Measuring Instruments

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 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

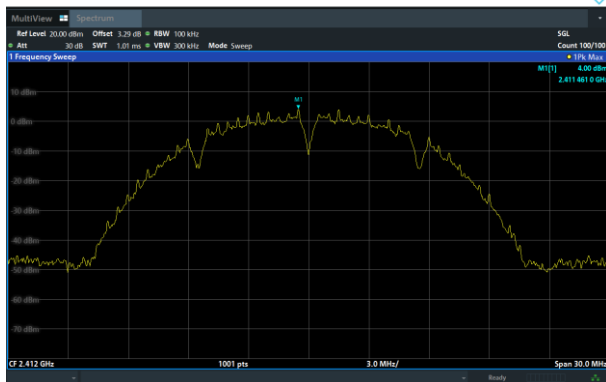


5.9.5 Test Results

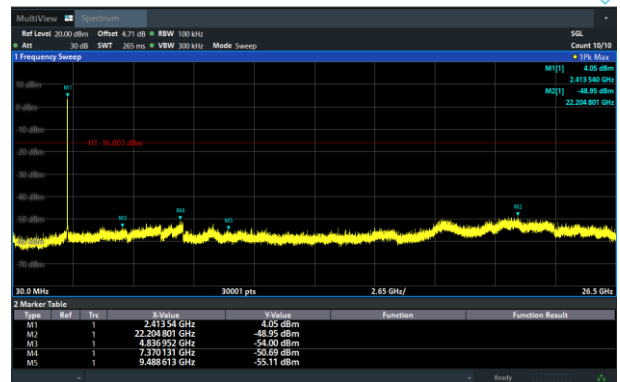
Note:

- 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 802.11 b mode in the report.

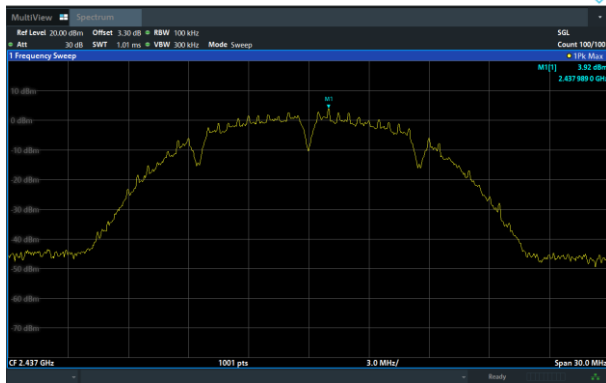
802.11 b on Channel 01



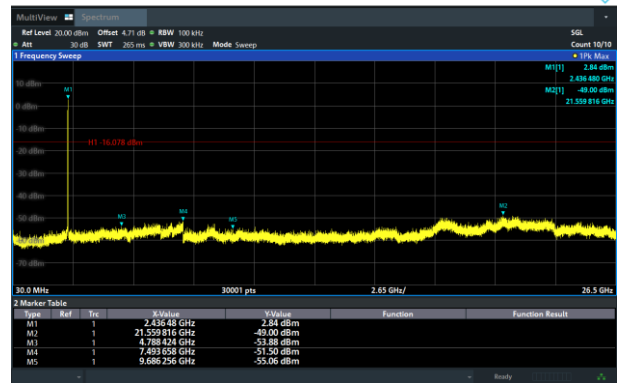
802.11 b on Channel 01



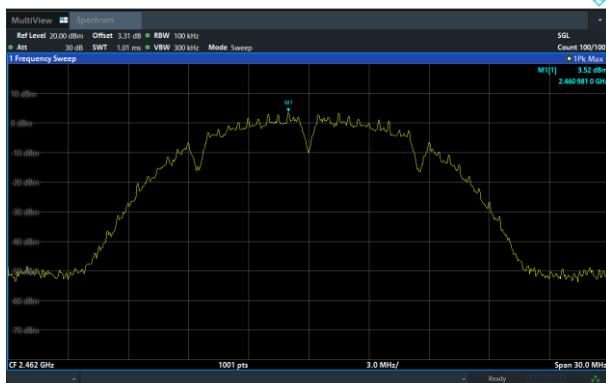
802.11 b on Channel 06



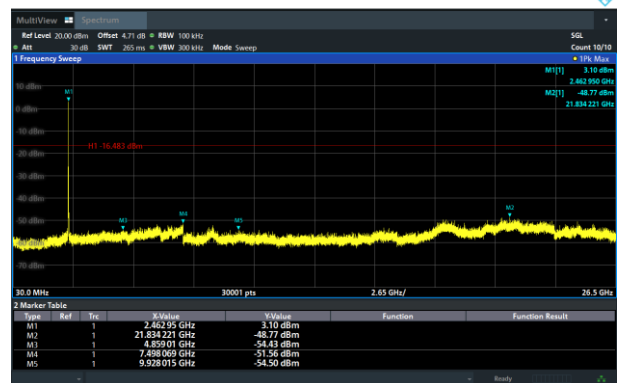
802.11 b on Channel 06



802.11 b on Channel 11



802.11 b on Channel 11



6 Photographs of the Test Setup

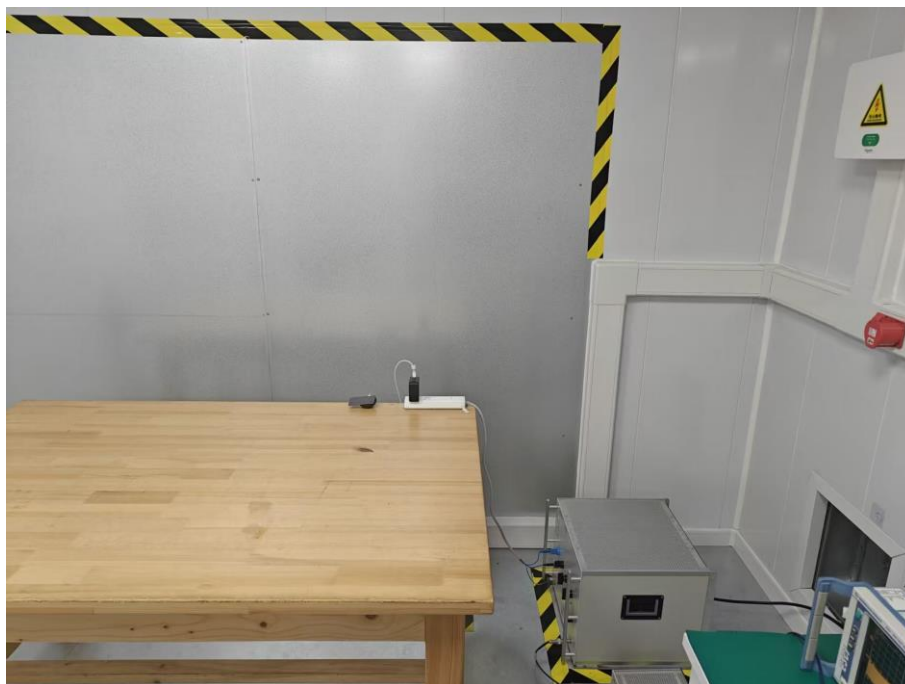
Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted Emission



7 Photographs of the EUT

Please refer to report HB20260414011E-01 for product photos.

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