

FCC Part 15C

Measurement And Test Report For

Star Computer Group Inc
2175 NW 115th Avenue, Miami FL USA 33172

FCC ID: PRM-T9500

Oct.16, 2013

This Report Concerns: ☒ Original Report	Equipment Type: Tablet
Report Number:	MTI130923002RF-2
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Microtest Technology Co.,Ltd.

TEST RESULT CERTIFICATION	
Applicant's name	Star Computer Group Inc
Address.....	2175 NW 115th Avenue,Miami FL USA 33172
Manufacture's Name	ShenZhen Codis Technology Co.,Ltd
Address.....	Room 501, West block, Tianan Hi-Tech Plaza Tower II, Tianan Cyber Park, Futian District, Shenzhen P.R..China
Product description	
Product name	Tablet
Model and/or type reference :	T9500
Serial Model.....	N/A
Standards	FCC Part15.247
Test procedure.....	ANSI C63.4-2003

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(a)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet	
Trade Name	N/A	
Model Name	T9500	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Tablet	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps
	Number Of Channel	79 CH
	Antenna Designation:	Please see Note 3.
	Output Power(Conducted):	BT(1Mbps): 2.063dBm BT EDR(2Mbps): -0.064dBm BT EDR(3Mbps): -0.168dBm
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Adapter	Model: PGAE0500200W1UL AC Power Input: 100-240V~, 50/60Hz, 0.3A Output: 5.0V---, 2A	
Battery	DC 3.7V, 6000mAh	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

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

2.

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3.

Table for Filed Antenna

Ant .	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	NA	1.0	BT Antenna

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	Link

For Conducted Emission	
Final Test Mode	Description
Mode 4	Link

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

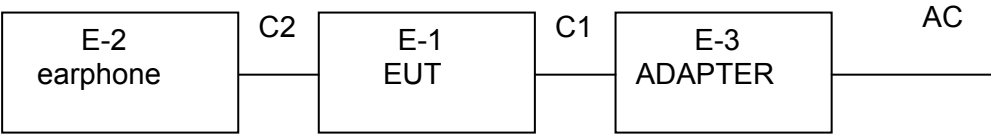
2.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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 of FHSS

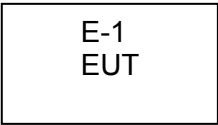
Test software Version	Test program: Broadcom		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps/2Mbps/3Mbps)	DEF	DEF	DEF

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet	N/A	T9500	N/A	EUT
E-2	Adapter	N/A	PGAE0500200W1UL	N/A	
E-3	Earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	60cm	
C2	NO	NO	80cm	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2013.07.06	2014.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2013.06.07	2014.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2013.07.06	2014.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2013.06.07	2014.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2013.06.07	2014.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2013.07.06	2014.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2013.07.06	2014.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2012.12.22	2013.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2013.06.08	2014.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2013.07.06	2014.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2013.07.06	2014.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2013.06.06	2014.06.05	1 year
2	LISN	R&S	ENV216	101313	2013.08.24	2014.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2013.08.24	2014.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2013.06.07	2014.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2013.06.07	2014.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2013.06.08	2014.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

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

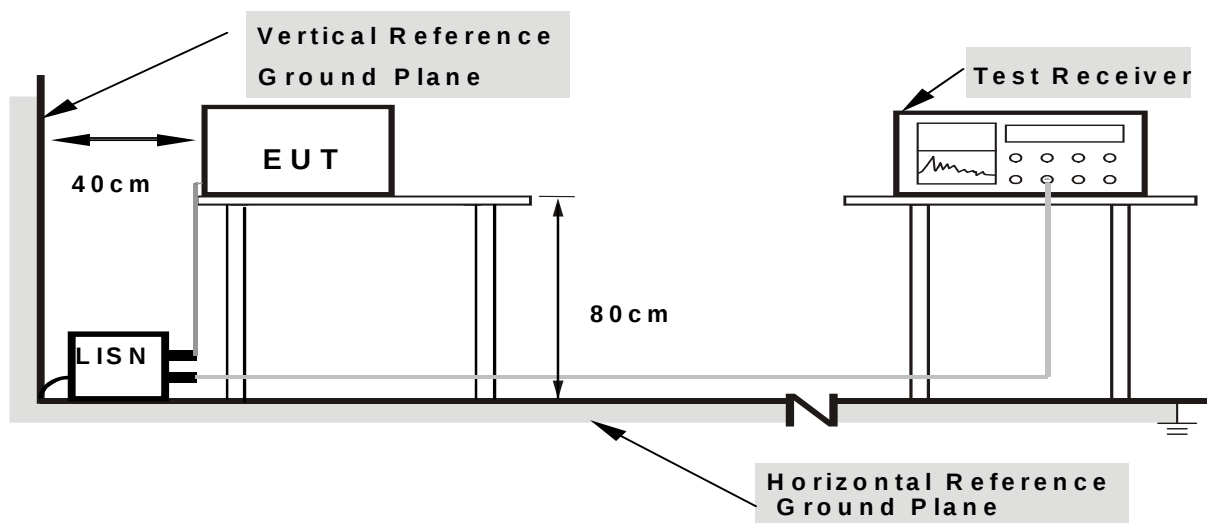
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 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.

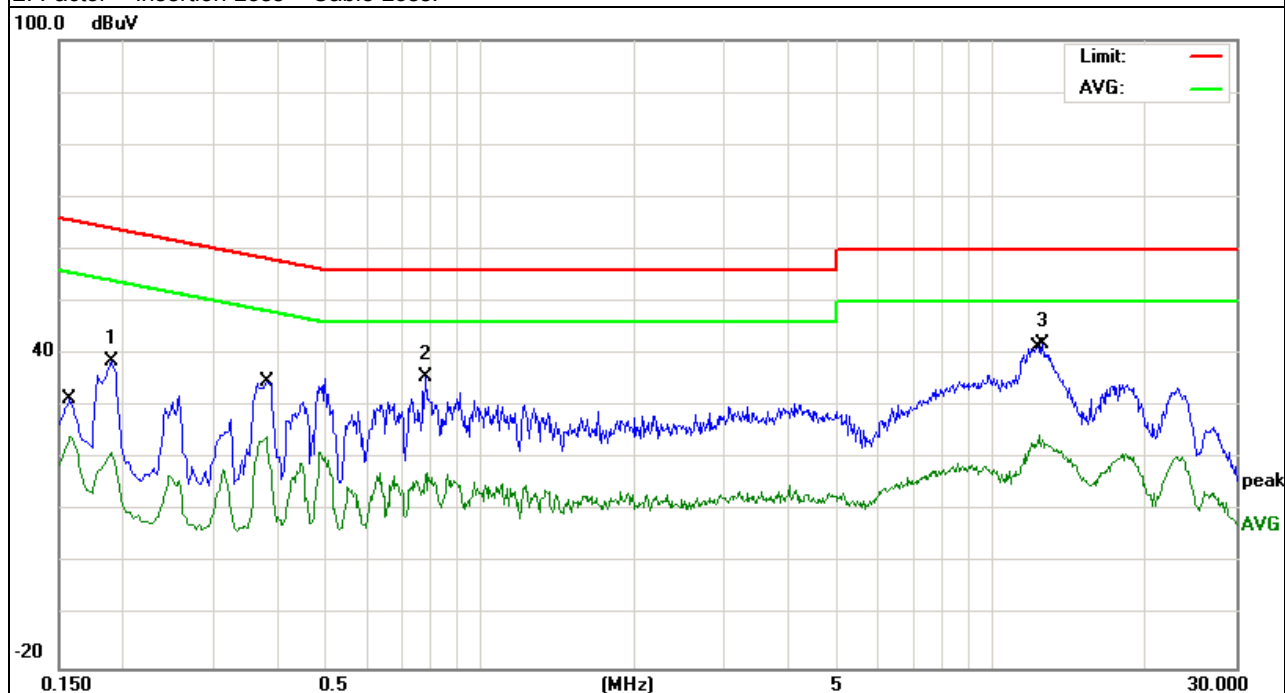
3.1.6 TEST RESULTS

EUT :	Tablet	Model Name :	T9500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from adapter AC 120V/60Hz	Test Mode :	Mode 4
Type	Class B		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1900	27.85	10.83	38.68	64.03	-25.35	peak
0.7820	25.10	10.52	35.62	56.00	-20.38	peak
12.5300	31.12	10.87	41.99	60.00	-18.01	peak
0.1580	12.98	11.36	24.34	55.56	-31.22	AVG
0.3820	13.44	10.75	24.19	48.23	-24.04	AVG
12.3260	13.78	10.88	24.66	50.00	-25.34	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

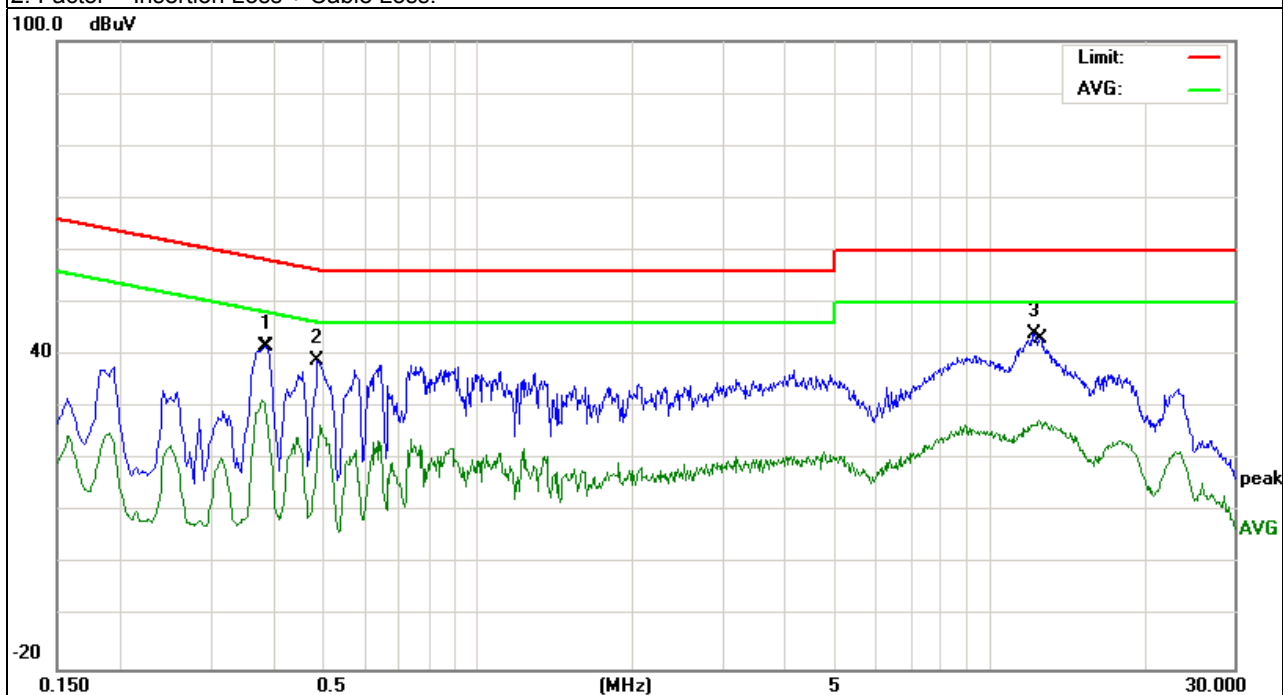


EUT :	Tablet	Model Name :	T9500
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from adapter AC 120V/60Hz	Test Mode :	Mode 4
Type	Class B		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.3860	30.89	10.74	41.63	58.15	-16.52	peak
0.4860	28.23	10.60	38.83	56.24	-17.41	peak
12.1940	33.31	10.88	44.19	60.00	-15.81	peak
0.3780	20.58	10.77	31.35	48.32	-16.97	AVG
0.4900	16.11	10.60	26.71	46.17	-19.46	AVG
12.5060	16.66	10.87	27.53	50.00	-22.47	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (FREQUENCY RANGE 9KHZ-1000MHZ)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed. (unintentional radiator)

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

The following table is the setting of the receiver

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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

3.2.2 TEST PROCEDURE

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

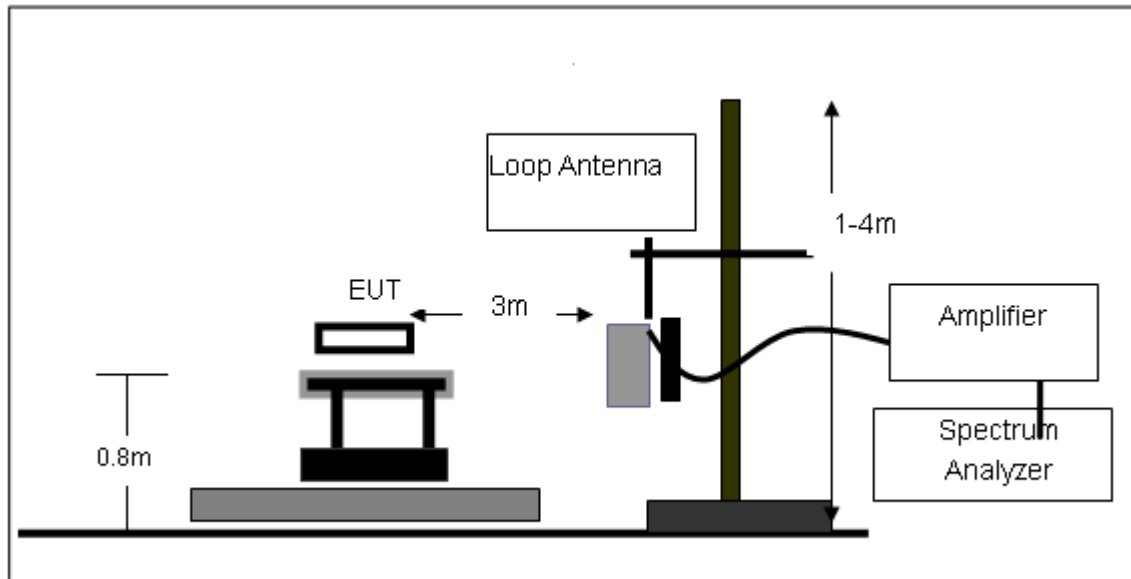
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

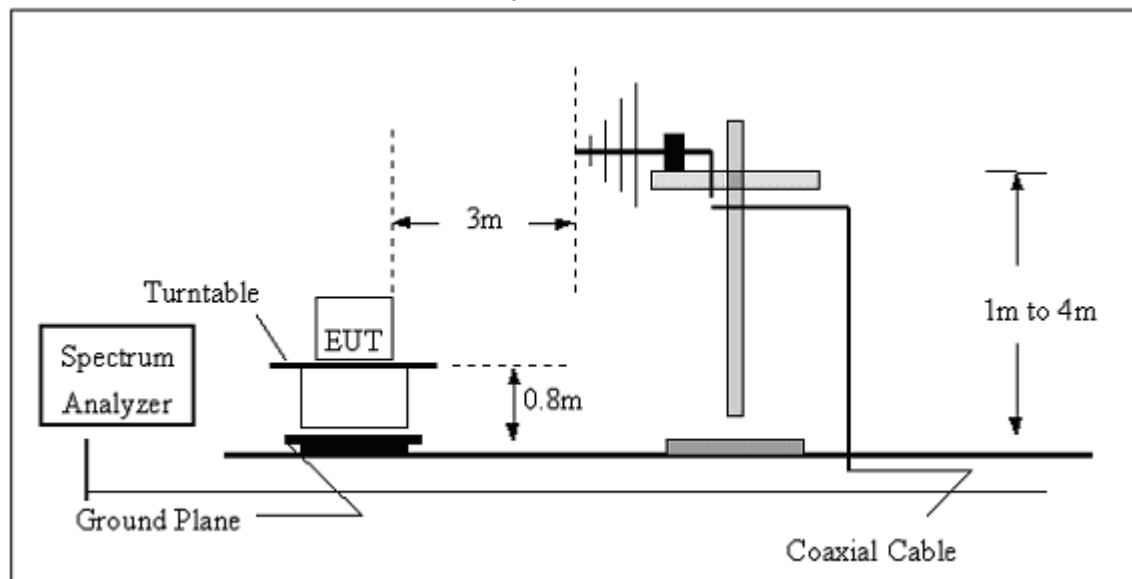
No deviation

3.2.4 TEST SETUP

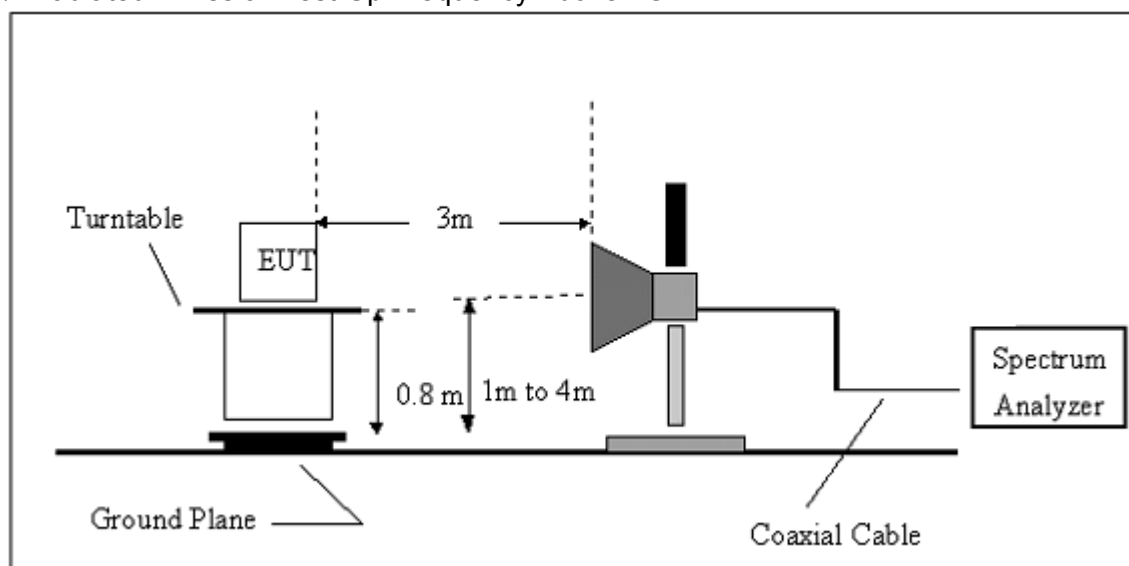
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	---
Test Voltage :	DC 3.7V by battery		
Test Mode :	TX		

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

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

3.2.7 TEST RESULTS (30MHZ-26GHZ)

EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.7V by battery		
Test Mode :	TX		

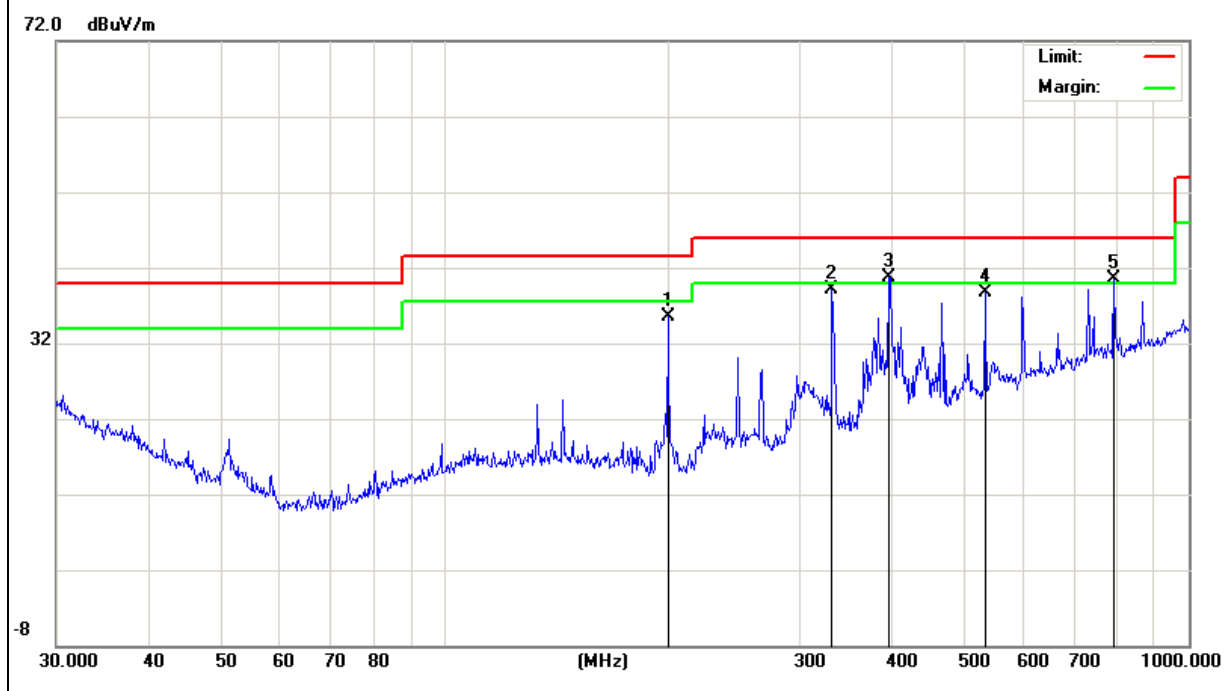
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
199.2855	26.88	8.71	35.59	43.5	-7.91	peak
331.3546	24.23	14.97	39.2	46	-6.8	peak
394.8543	23.77	17.03	40.8	46	-5.2	peak
531.9633	18.85	19.76	38.61	46	-7.39	peak
793.3958	16.51	23.91	40.42	46	-5.58	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

All interfaces was connected, and BT TX mode was link.



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Polarization :	Vertical
Test Voltage :	DC 3.7V by battery		
Test Mode :	TX		

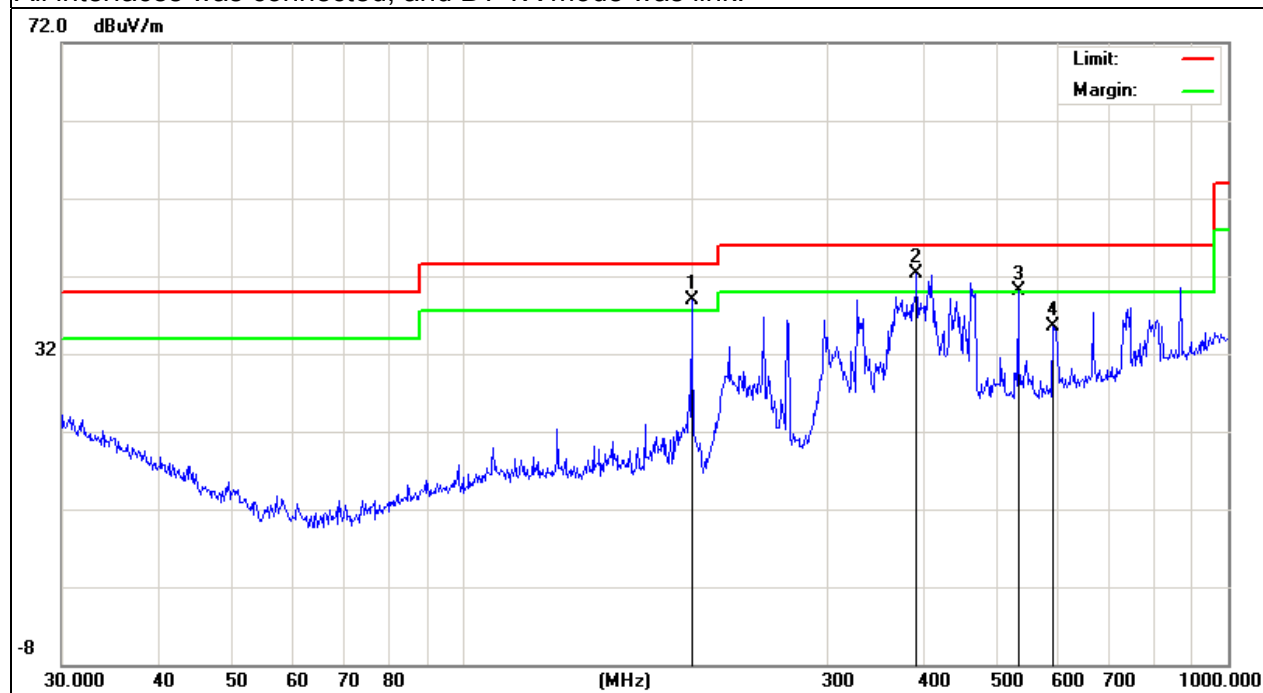
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
199.2855	30.12	8.71	38.83	43.5	-4.67	peak
392.0951	25.41	16.93	42.34	46	-3.66	peak
531.9633	20.35	19.76	40.11	46	-5.89	peak
590.9737	14.71	20.79	35.5	46	-10.5	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

All interfaces was connected, and BT TX mode was link.

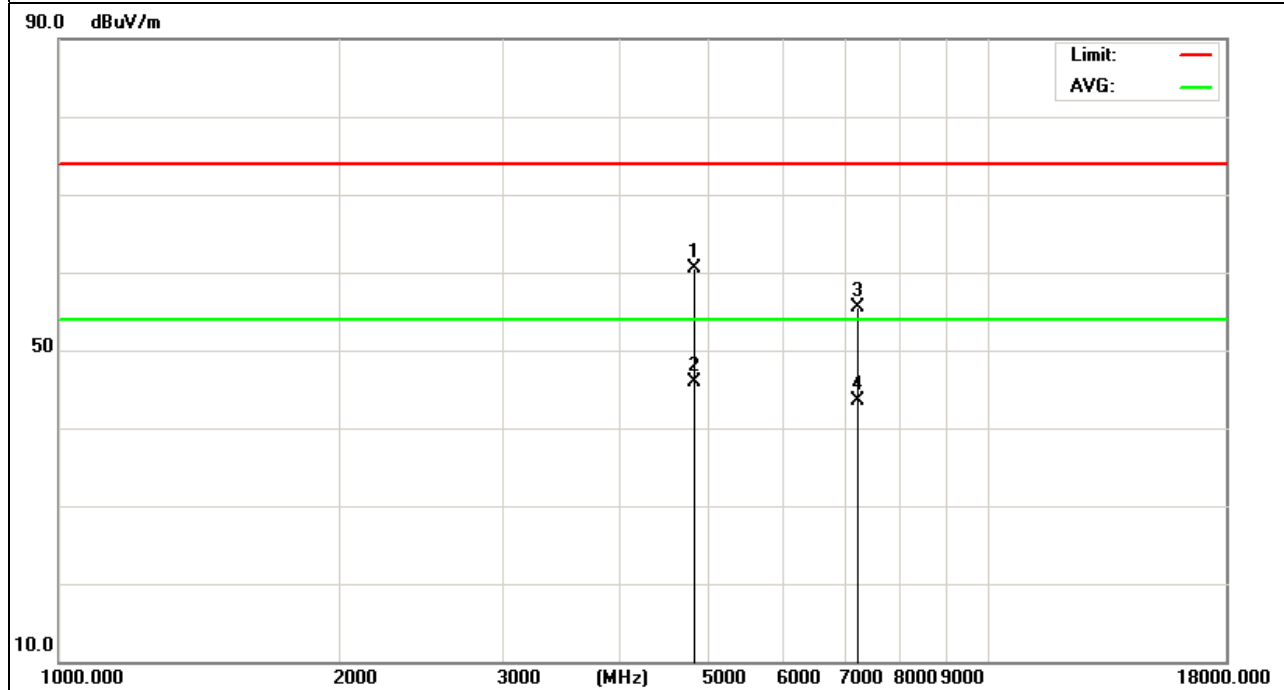


3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.136	64.21	-3.64	60.57	74	-13.43	peak
4804.136	49.46	-3.64	45.82	54	-8.18	AVG
7206.125	56.54	-0.95	55.59	74	-18.41	peak
7206.125	44.38	-0.95	43.43	54	-10.57	AVG

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Factor added by measurement software automatically.
No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(1Mbps)	Polarization :	Vertical

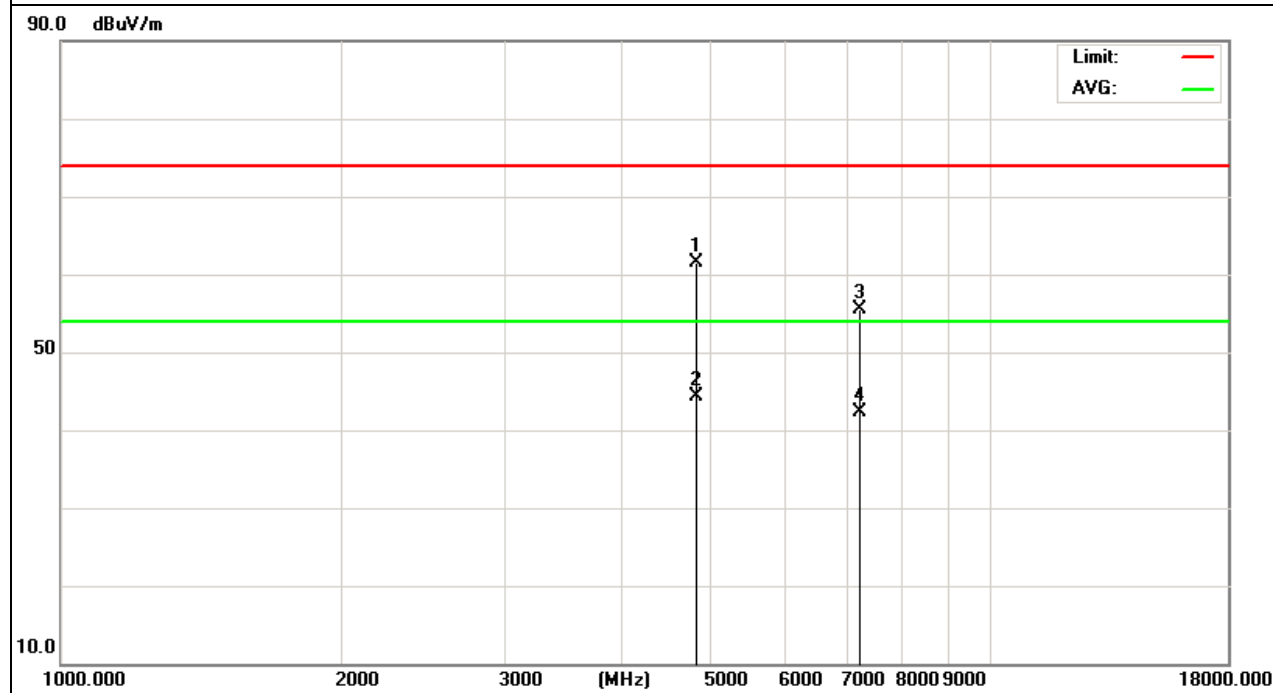
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.138	65.12	-3.64	61.48	74	-12.52	peak
4804.138	48.03	-3.64	44.39	54	-9.61	AVG
7206.119	56.4	-0.95	55.45	74	-18.55	peak
7206.119	43.29	-0.95	42.34	54	-11.66	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Vertical

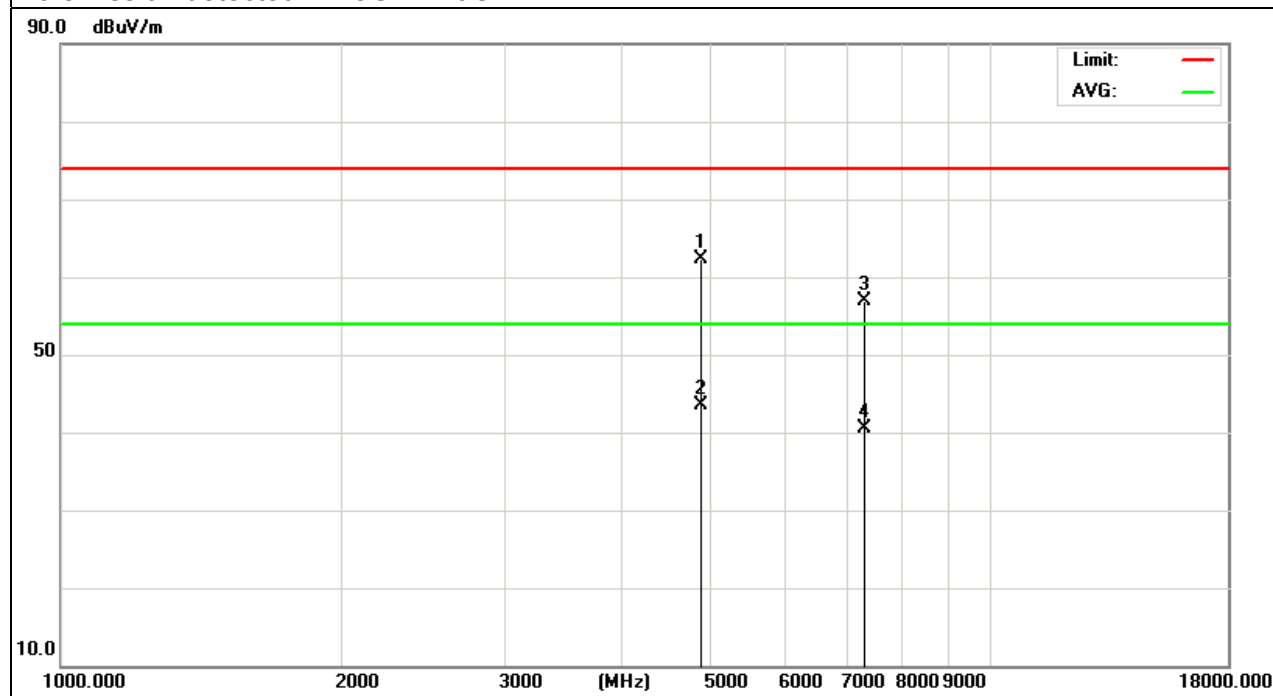
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4882.132	66	-3.68	62.32	74	-11.68	peak
4882.132	47.25	-3.68	43.57	54	-10.43	AVG
7323.118	57.65	-0.82	56.83	74	-17.17	peak
7323.118	41.28	-0.82	40.46	54	-13.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(1Mbps)	Polarization :	Horizontal

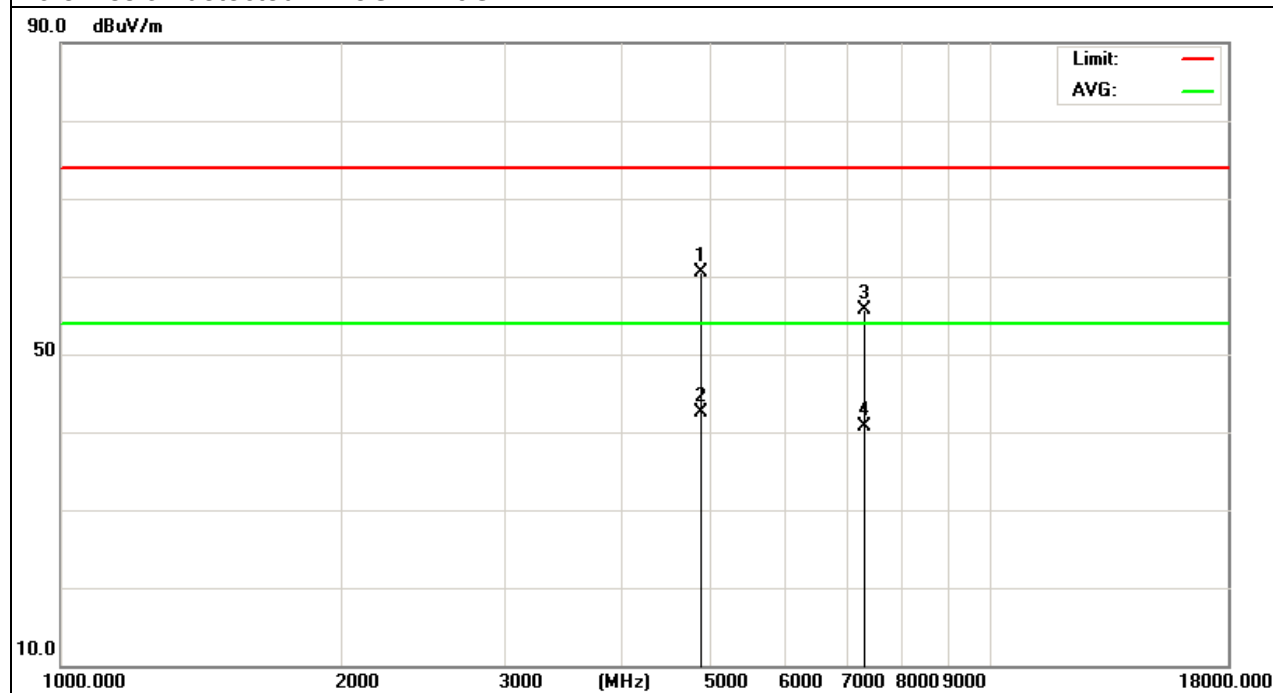
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4882.177	64.24	-3.68	60.56	74	-13.44	peak
4882.177	46.15	-3.68	42.47	54	-11.53	AVG
7323.149	56.45	-0.82	55.63	74	-18.37	peak
7323.149	41.51	-0.82	40.69	54	-13.31	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Horizontal

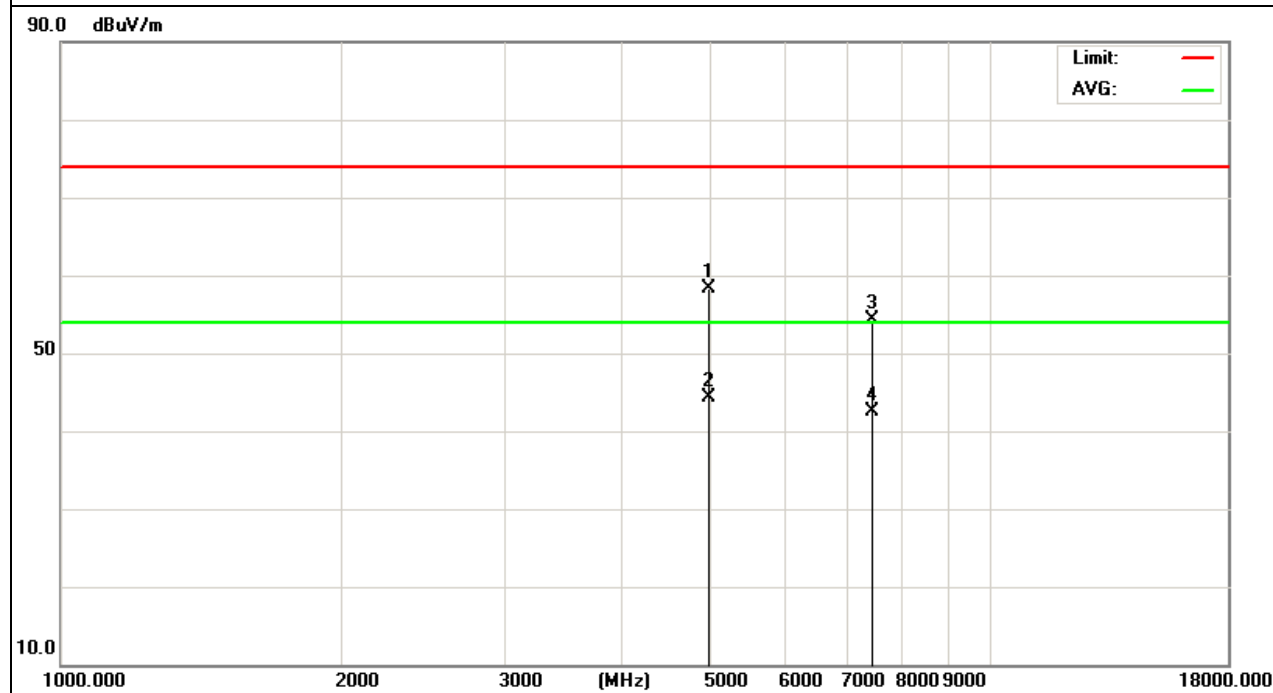
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.145	61.94	-3.59	58.35	74	-15.65	peak
4960.145	47.87	-3.59	44.28	54	-9.72	AVG
7440.129	55.05	-0.68	54.37	74	-19.63	peak
7440.129	43.14	-0.68	42.46	54	-11.54	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(1Mbps)	Polarization :	Vertical

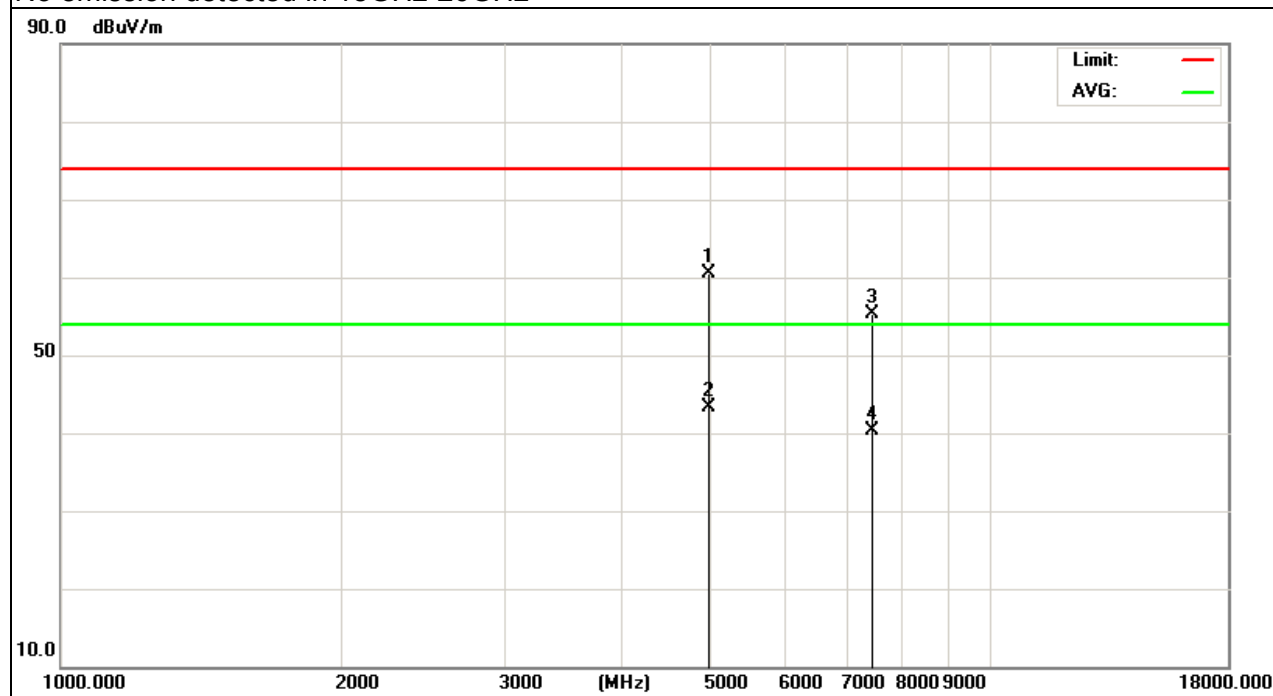
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.142	64.16	-3.59	60.57	74	-13.43	peak
4960.142	46.92	-3.59	43.33	54	-10.67	AVG
7440.11	55.93	-0.68	55.25	74	-18.75	peak
7440.11	41.04	-0.68	40.36	54	-13.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Horizontal

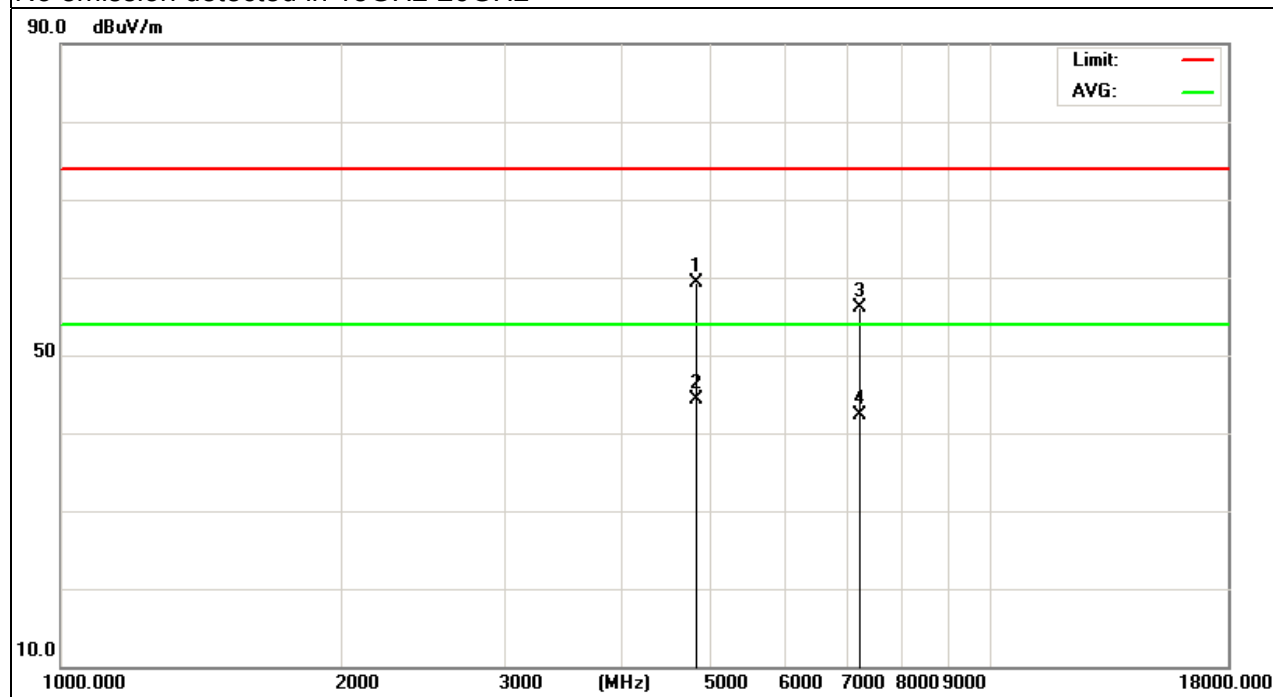
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.177	62.89	-3.64	59.25	74	-14.75	peak
4804.177	48	-3.64	44.36	54	-9.64	AVG
7206.161	57.14	-0.95	56.19	74	-17.81	peak
7206.161	43.23	-0.95	42.28	54	-11.72	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH 00(2Mbps)	Polarization :	Vertical

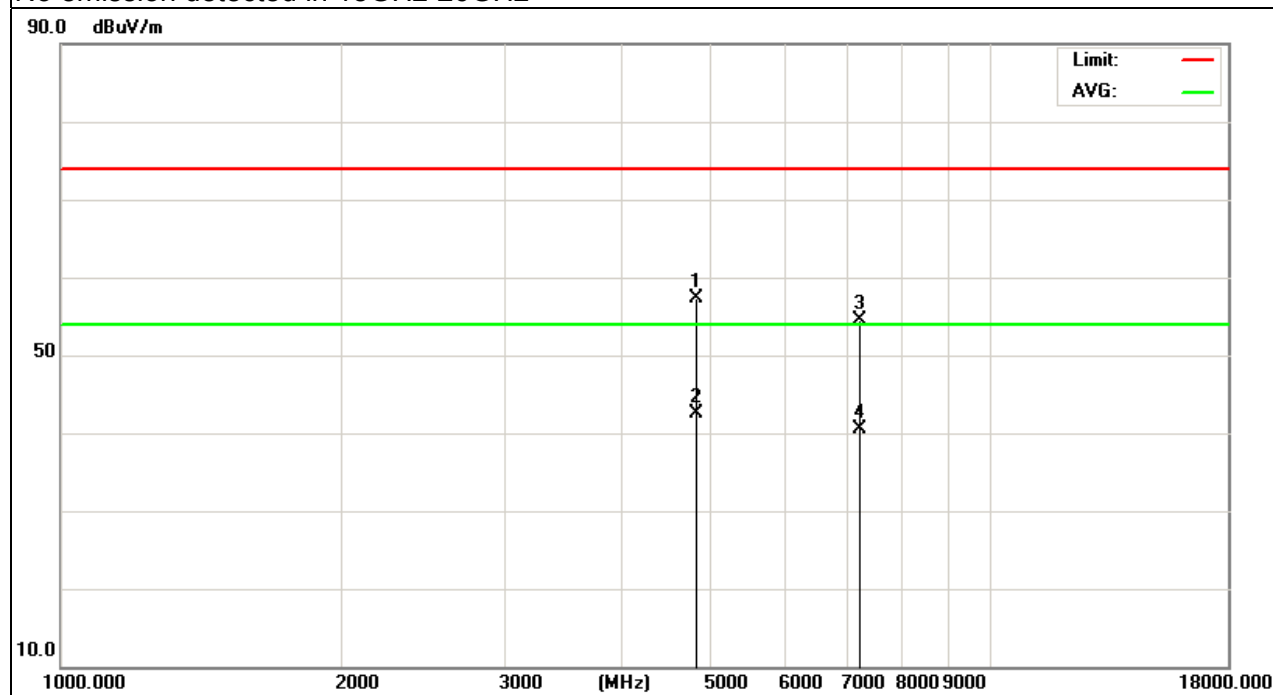
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.115	61.02	-3.64	57.38	74	-16.62	peak
4804.115	46.13	-3.64	42.49	54	-11.51	AVG
7206.127	55.51	-0.95	54.56	74	-19.44	peak
7206.127	41.52	-0.95	40.57	54	-13.43	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Horizontal

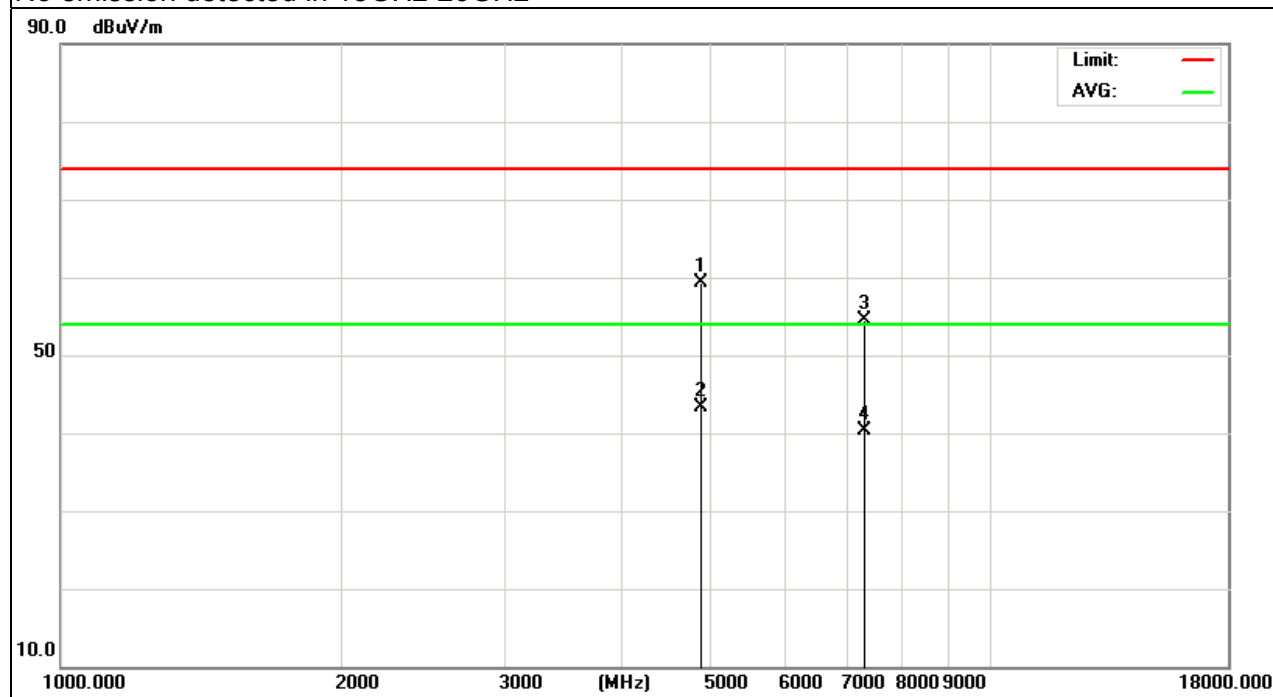
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4882.132	62.89	-3.68	59.21	74	-14.79	peak
4882.132	47.02	-3.68	43.34	54	-10.66	AVG
7323.103	55.27	-0.82	54.45	74	-19.55	peak
7323.103	41.18	-0.82	40.36	54	-13.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH 39(2Mbps)	Polarization :	Vertical

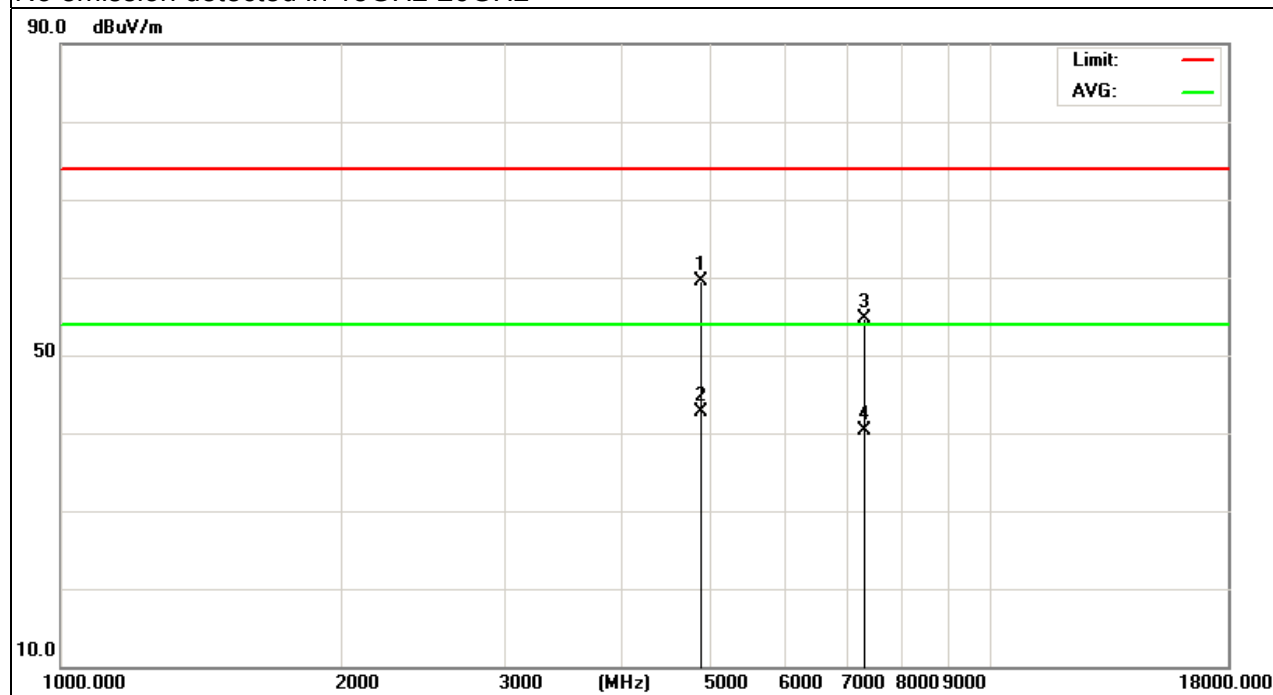
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4882.132	63.2	-3.68	59.52	74	-14.48	peak
4882.132	46.37	-3.68	42.69	54	-11.31	AVG
7323.175	55.57	-0.82	54.75	74	-19.25	peak
7323.175	41.16	-0.82	40.34	54	-13.66	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Horizontal

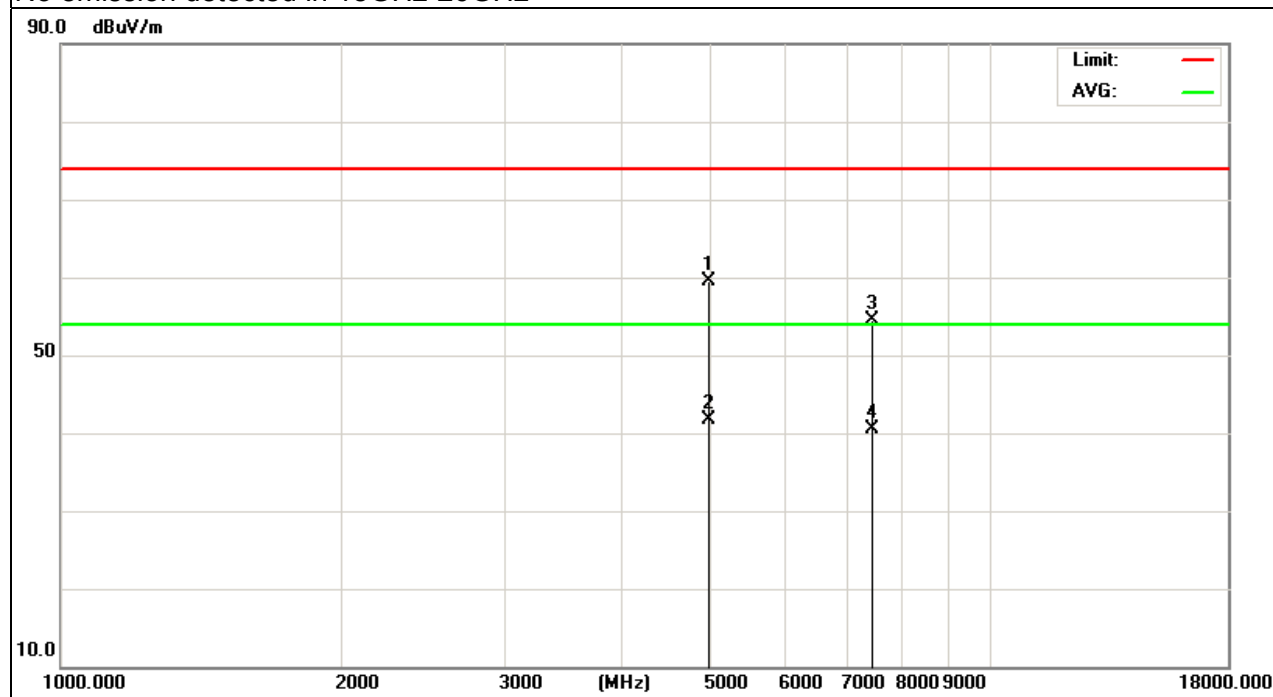
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.111	63.16	-3.59	59.57	74	-14.43	peak
4960.111	45.24	-3.59	41.65	54	-12.35	AVG
7440.189	55.12	-0.68	54.44	74	-19.56	peak
7440.189	41.26	-0.68	40.58	54	-13.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH 78(2Mbps)	Polarization :	Vertical

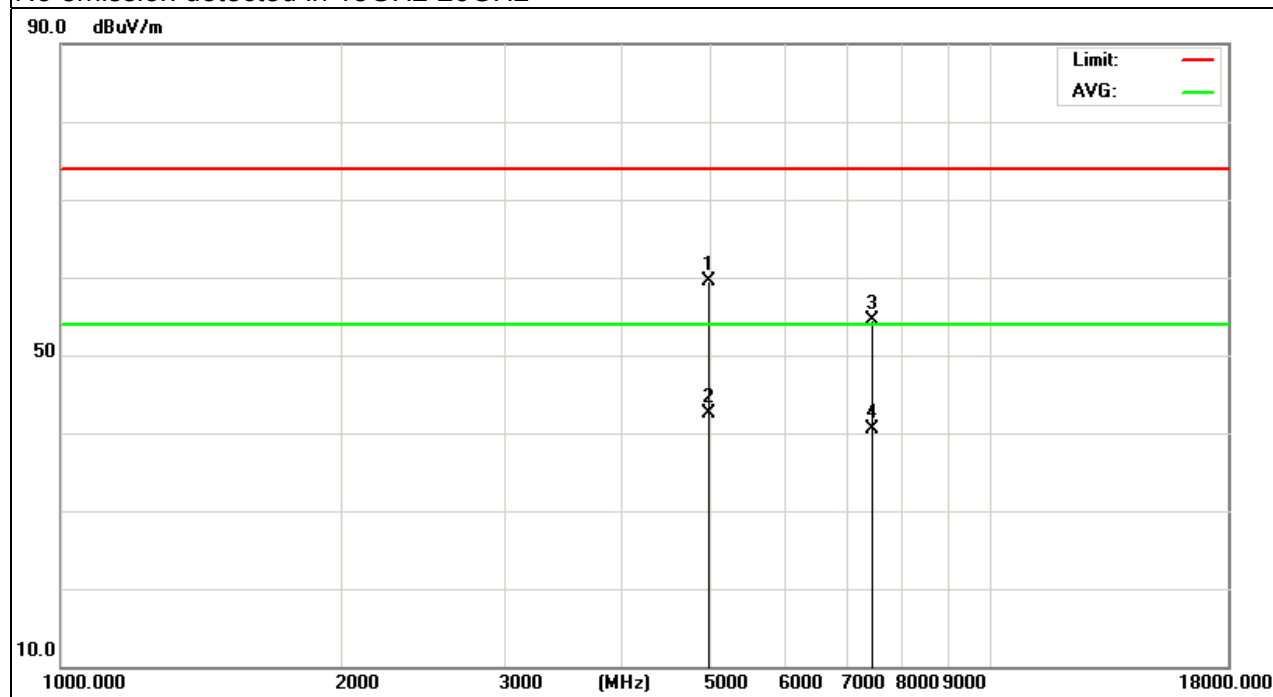
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.121	63.01	-3.59	59.42	74	-14.58	peak
4960.121	46.12	-3.59	42.53	54	-11.47	AVG
7440.128	55.25	-0.68	54.57	74	-19.43	peak
7440.128	41.27	-0.68	40.59	54	-13.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH00 (3Mbps)	Polarization :	Horizontal

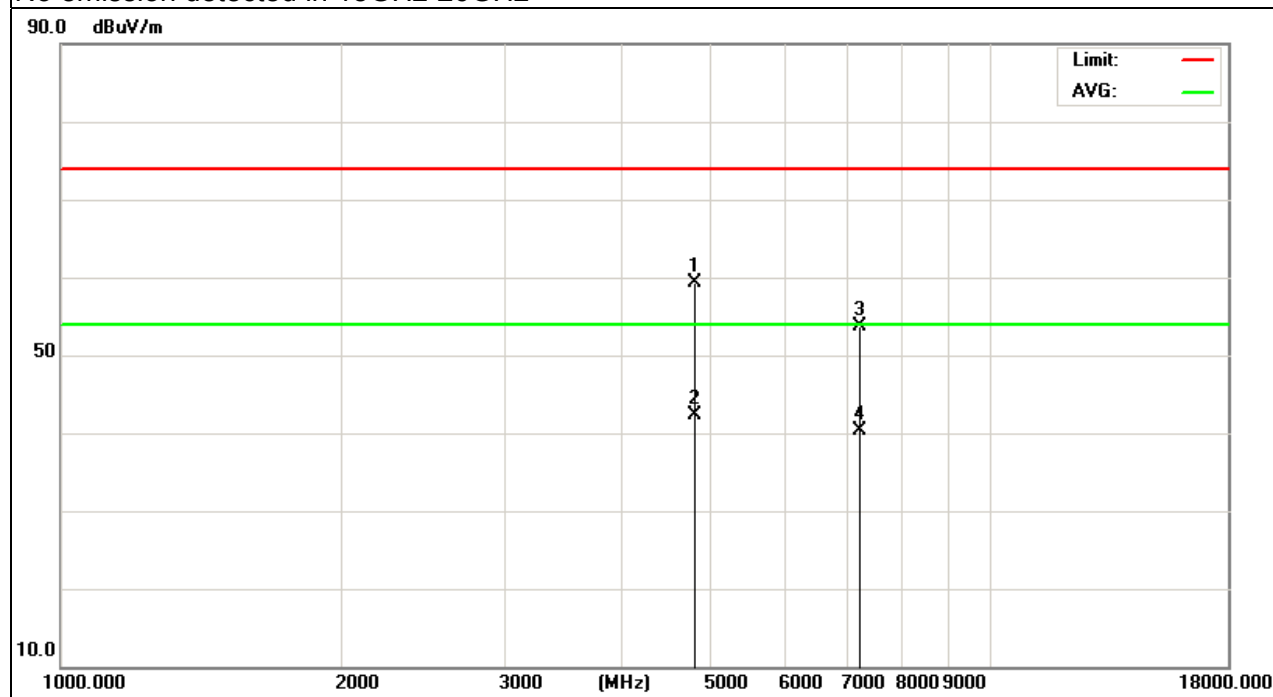
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.108	62.92	-3.64	59.28	74	-14.72	
4804.108	46	-3.64	42.36	54	-11.64	AVG
7206.117	54.57	-0.95	53.62	74	-20.38	peak
7206.117	41.32	-0.95	40.37	54	-13.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2402MHz – CH00 (3Mbps)	Polarization :	Vertical

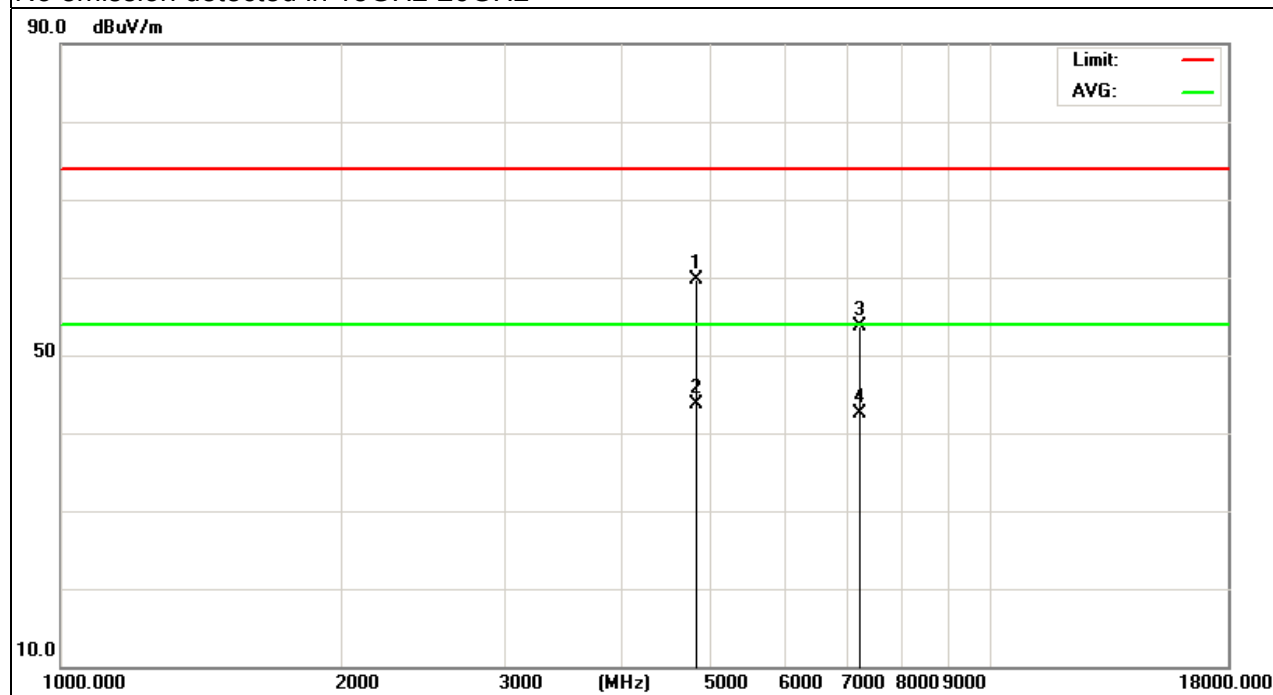
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4804.145	63.4	-3.64	59.76	74	-14.24	peak
4804.145	47.26	-3.64	43.62	54	-10.38	AVG
7206.131	54.63	-0.95	53.68	74	-20.32	peak
7206.131	43.42	-0.95	42.47	54	-11.53	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH39(3Mbps)	Polarization :	Horizontal

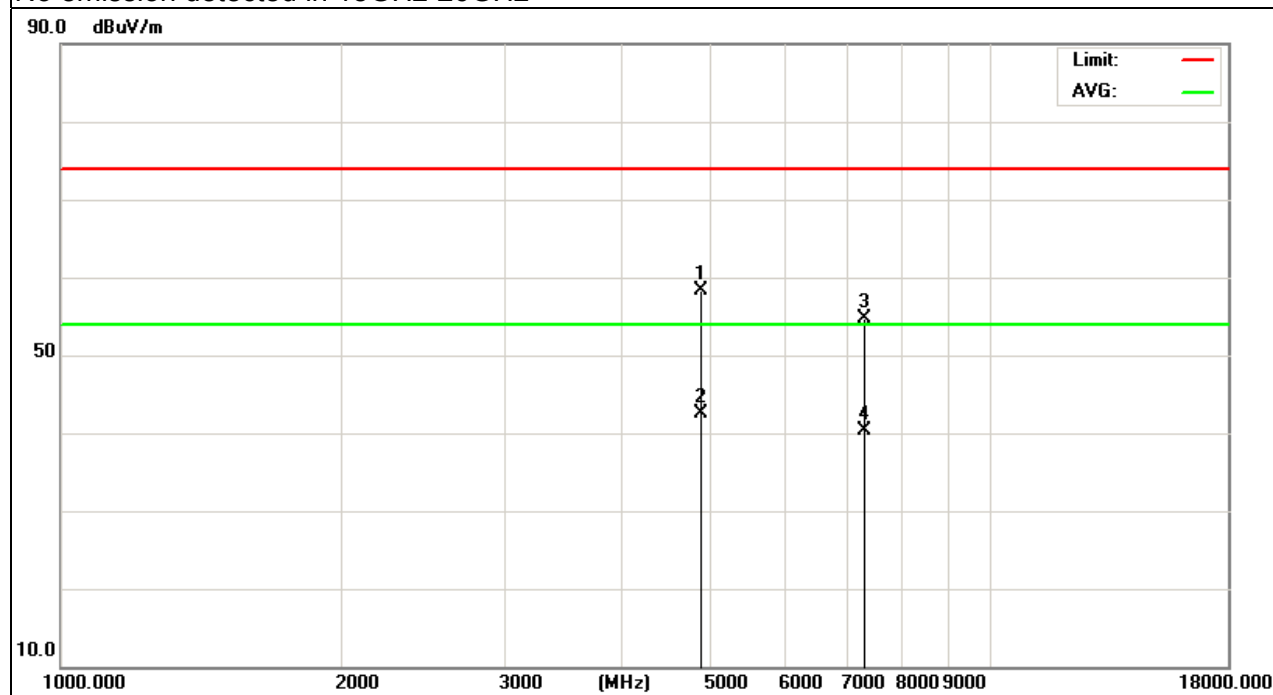
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4882.116	62.07	-3.68	58.39	74	-15.61	peak
4882.116	46.09	-3.68	42.41	54	-11.59	AVG
7323.147	55.44	-0.82	54.62	74	-19.38	peak
7323.147	41.17	-0.82	40.35	54	-13.65	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2441MHz – CH39 (3Mbps)	Polarization :	Vertical

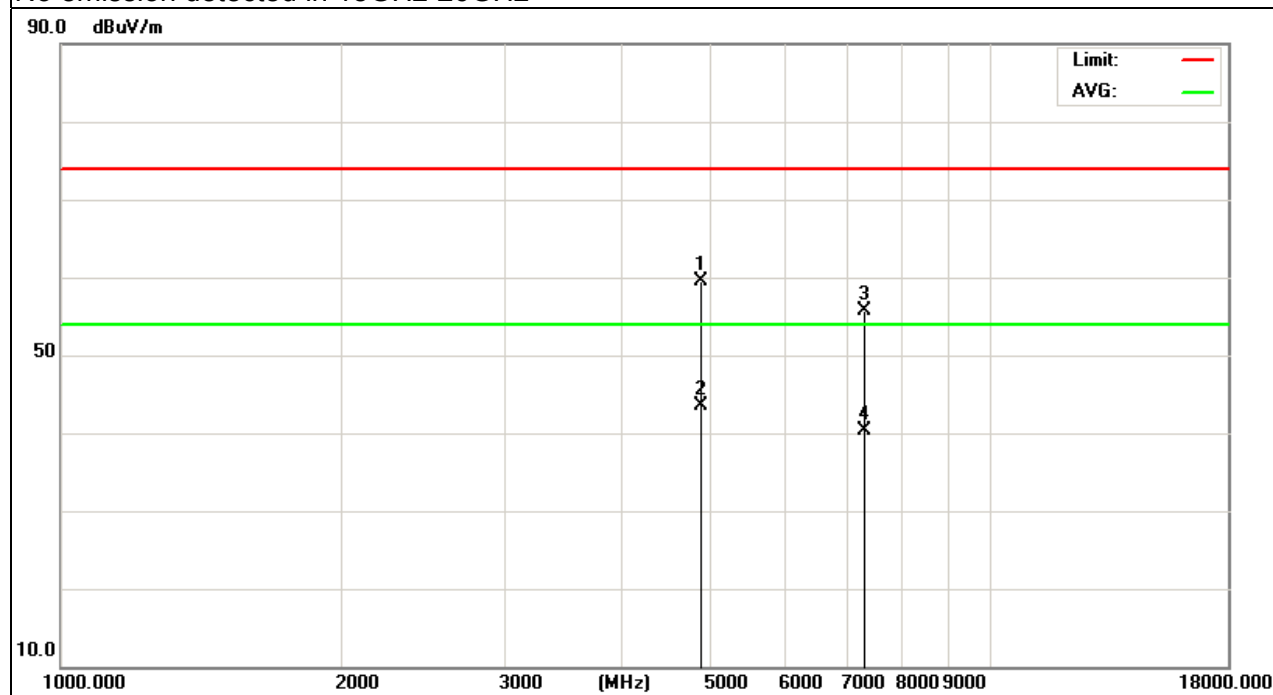
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4882.186	63.14	-3.68	59.46	74	-14.54	peak
4882.186	47.1	-3.68	43.42	54	-10.58	AVG
7323.162	56.53	-0.82	55.71	74	-18.29	peak
7323.162	41.07	-0.82	40.25	54	-13.75	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Horizontal

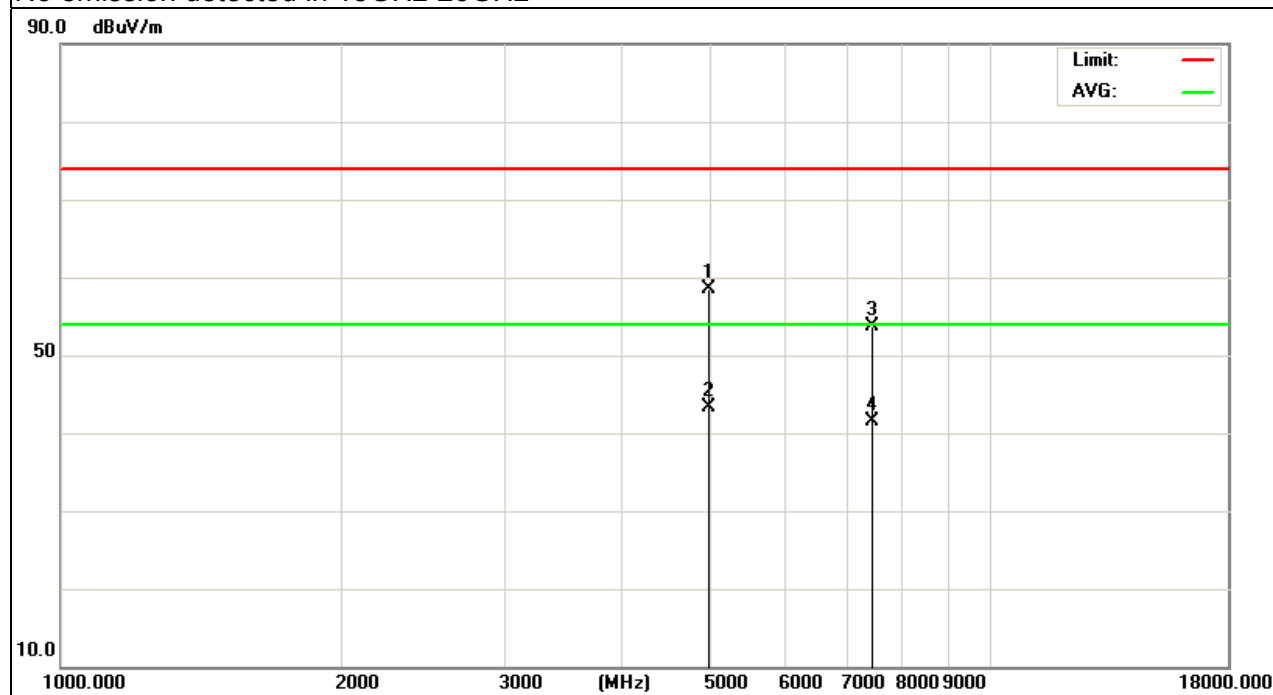
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.166	62.09	-3.59	58.5	74	-15.5	peak
4960.166	46.98	-3.59	43.39	54	-10.61	AVG
7440.159	54.46	-0.68	53.78	74	-20.22	peak
7440.159	42.24	-0.68	41.56	54	-12.44	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX 2480MHz – CH78 (3Mbps)	Polarization :	Vertical

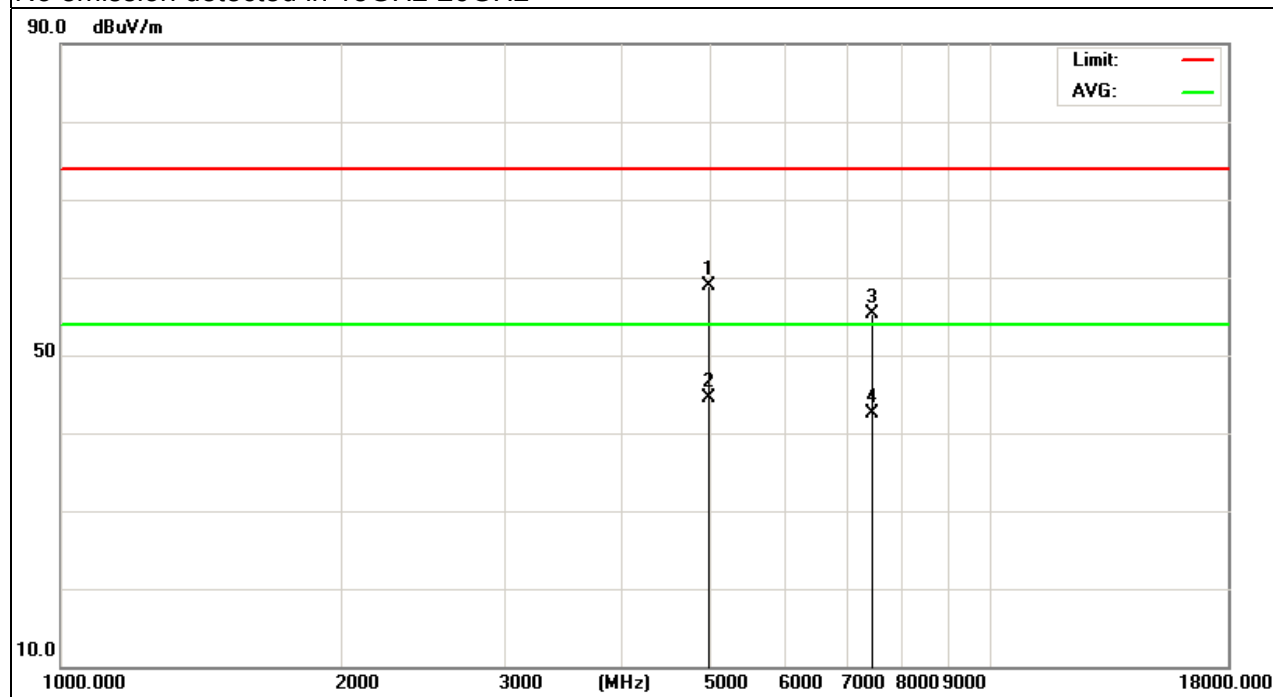
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
4960.143	62.45	-3.59	58.86	74	-15.14	peak
4960.143	48.04	-3.59	44.45	54	-9.55	AVG
7440.185	56.05	-0.68	55.37	74	-18.63	peak
7440.185	43.26	-0.68	42.58	54	-11.42	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.

No emission detected in 18GHz-26GHz



3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	83.6	-40.5	43.1	74	-30.9	peak

Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Factor added by measurement software automatically.



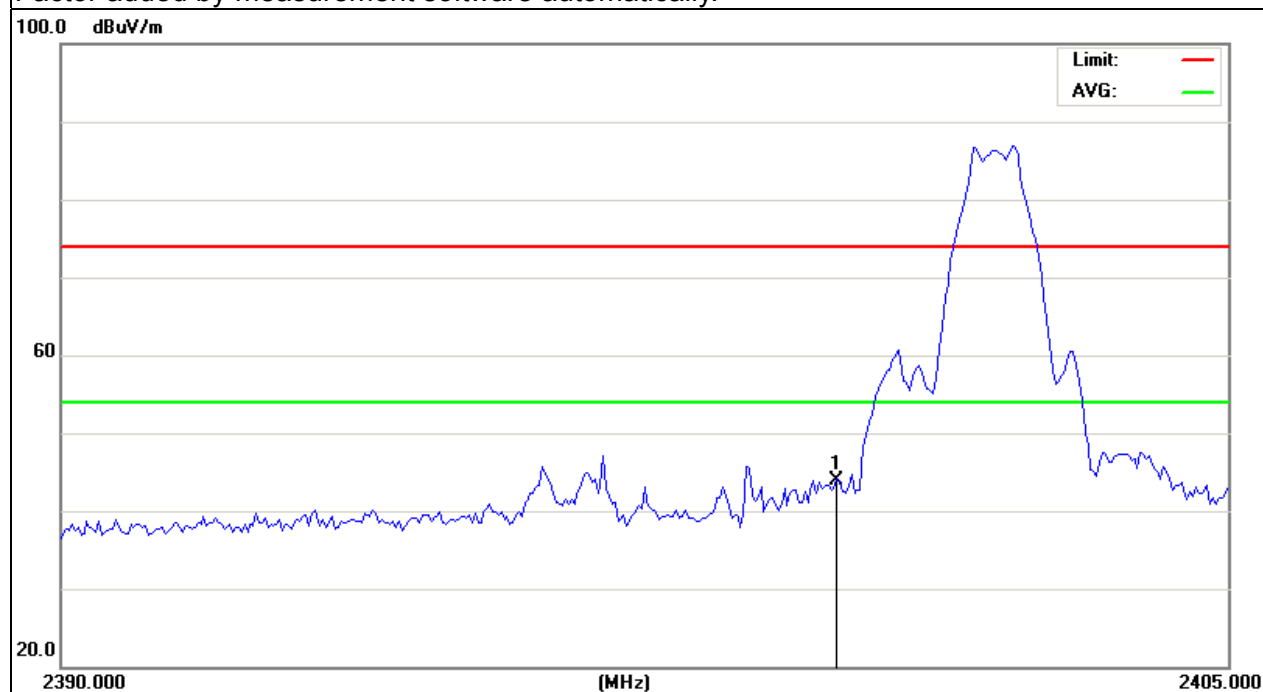
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-1Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400	84.5	-40.5	44	74	-30	
						peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



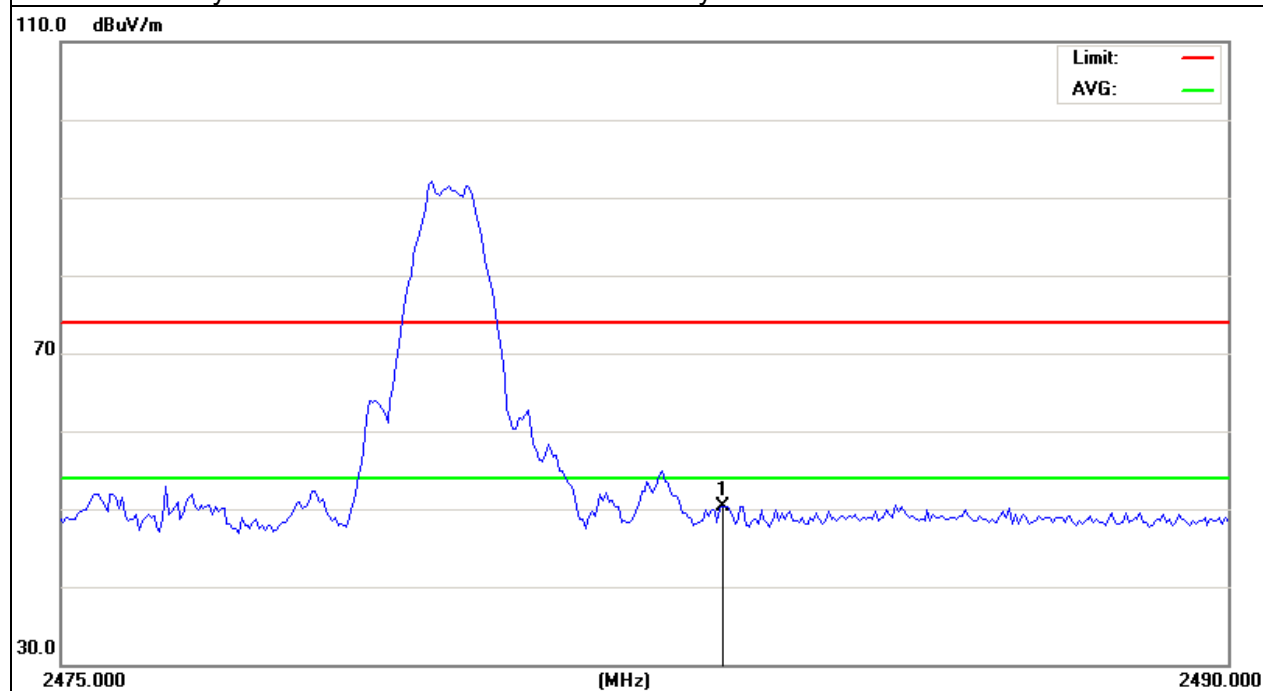
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	90.75	-40.43	50.32	74	-23.68	
						peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



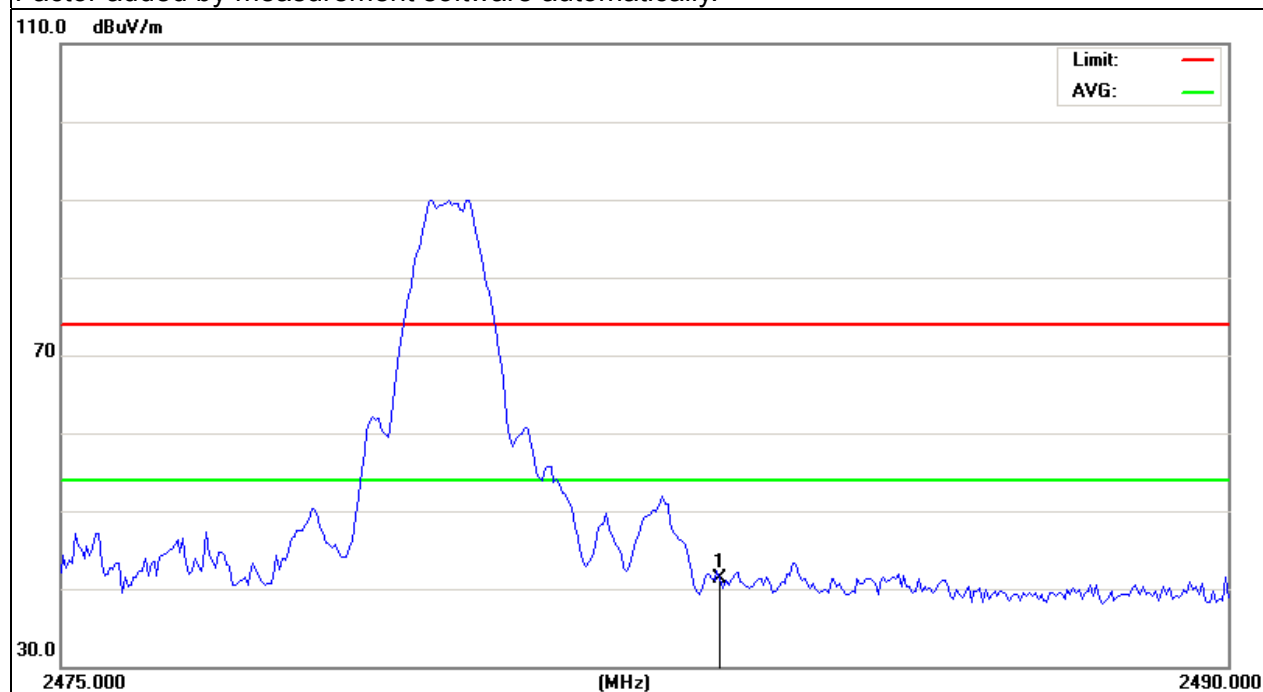
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-1Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	81.63	-40.43	41.2	74	-32.8	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	82.2	-40.5	41.7	74	-32.3	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



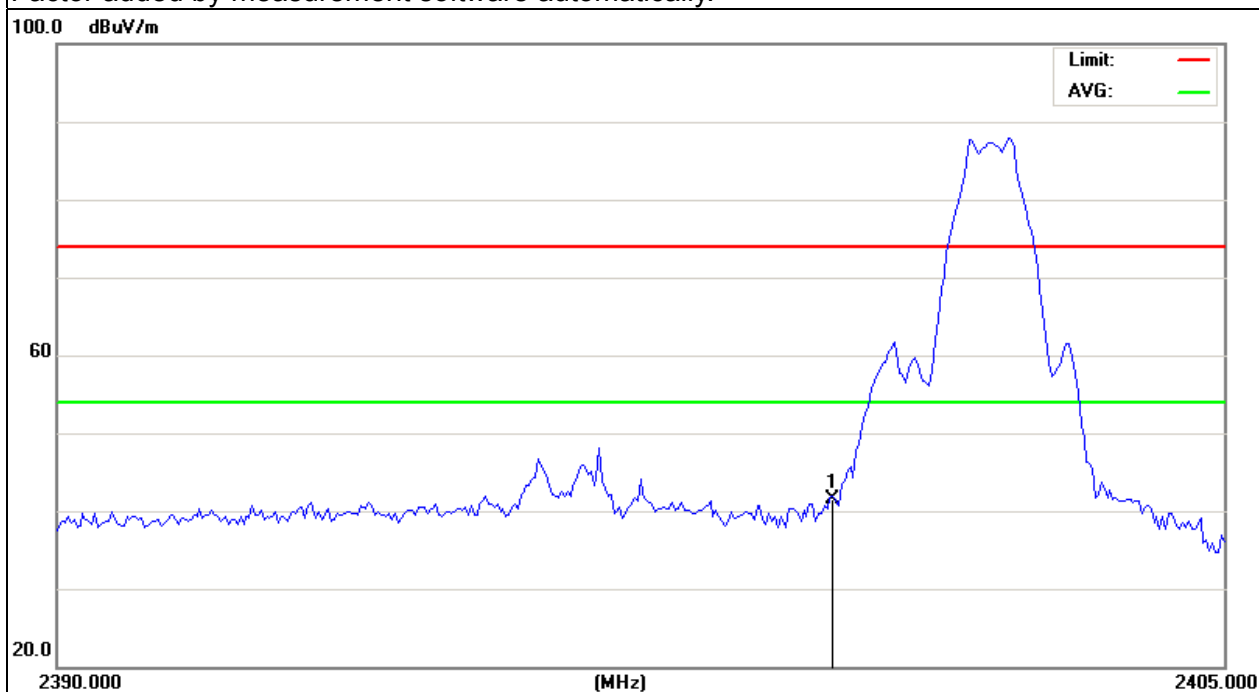
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-2Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400	82	-40.5	41.5	74	-32.5	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



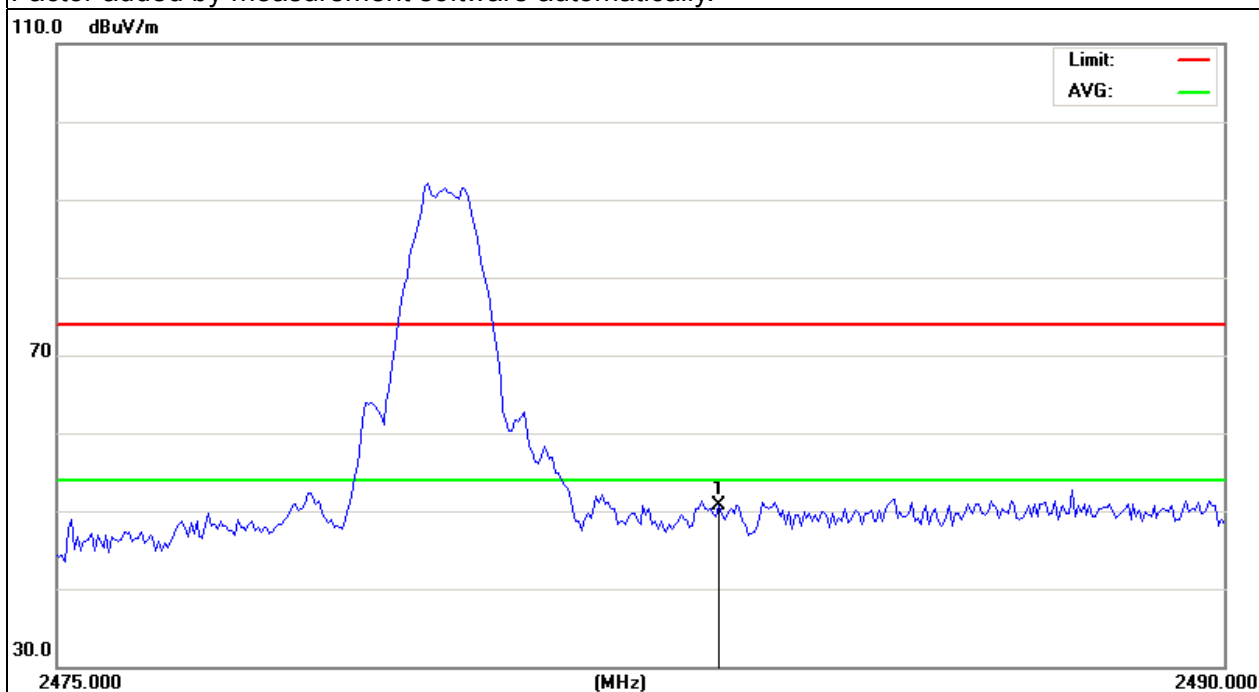
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.5	91.14	-40.43	50.71	74	-23.29	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



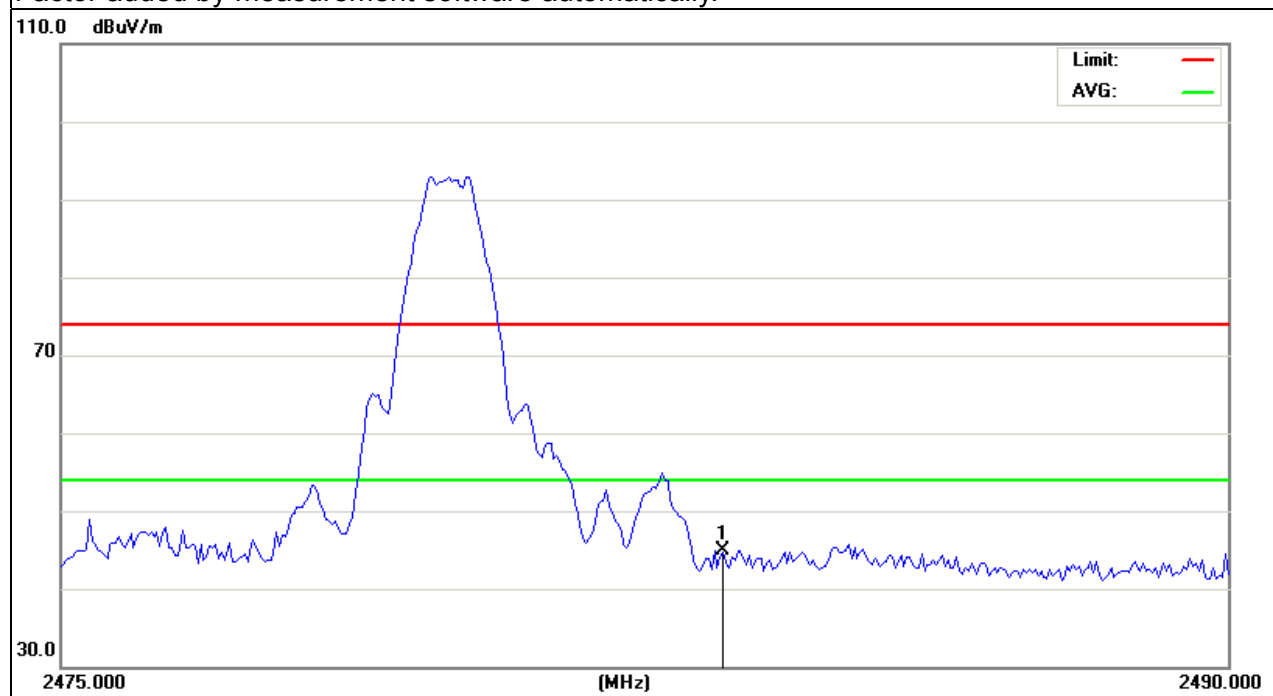
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-2Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	85.24	-40.43	44.81	74	-29.19	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2400	90.6	-40.5	50.1	74	-23.9	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



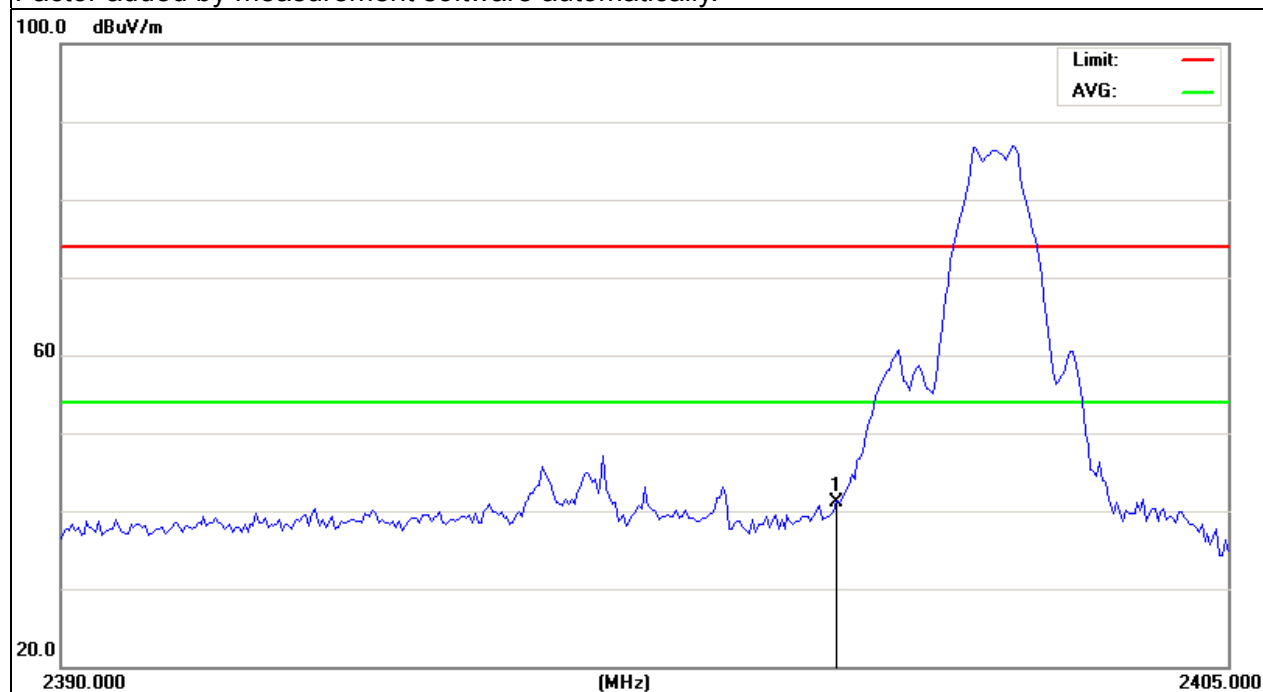
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2400	81.6	-40.5	41.1	74	-32.9	
						peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



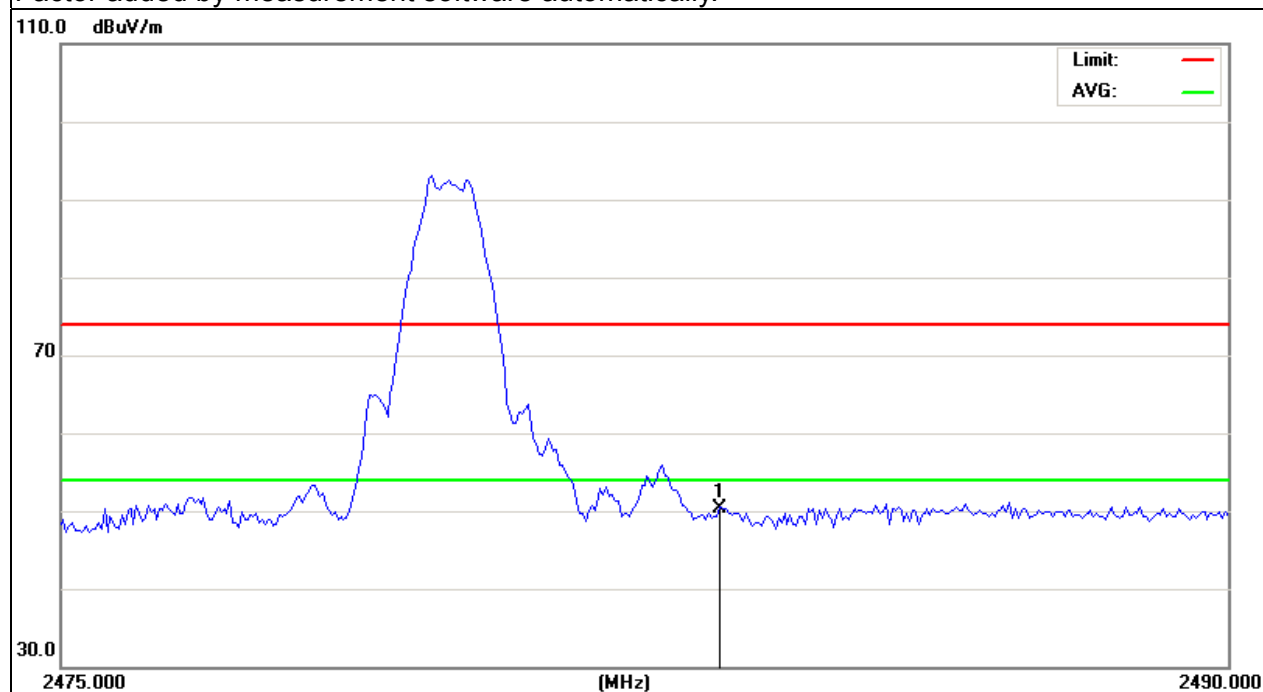
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	90.73	-40.43	50.3	74	-23.7	
						peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



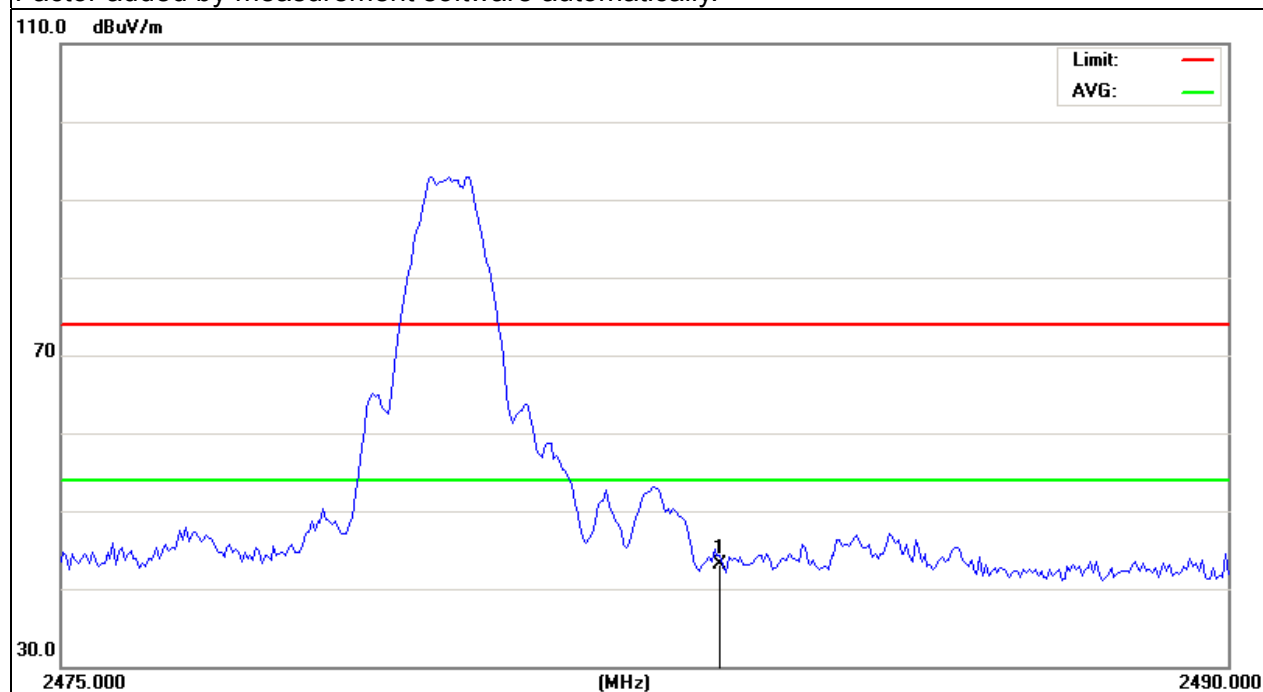
EUT :	Tablet	Model Name :	T9500
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
2483.5	83.53	-40.43	43.1	74	-30.9	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Factor added by measurement software automatically.



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	$RBW \geq 1\%$ of the span
VB	$VBW \geq RBW$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : $RBW= 1\text{MHz}$, $VBW=1\text{MHz}$, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



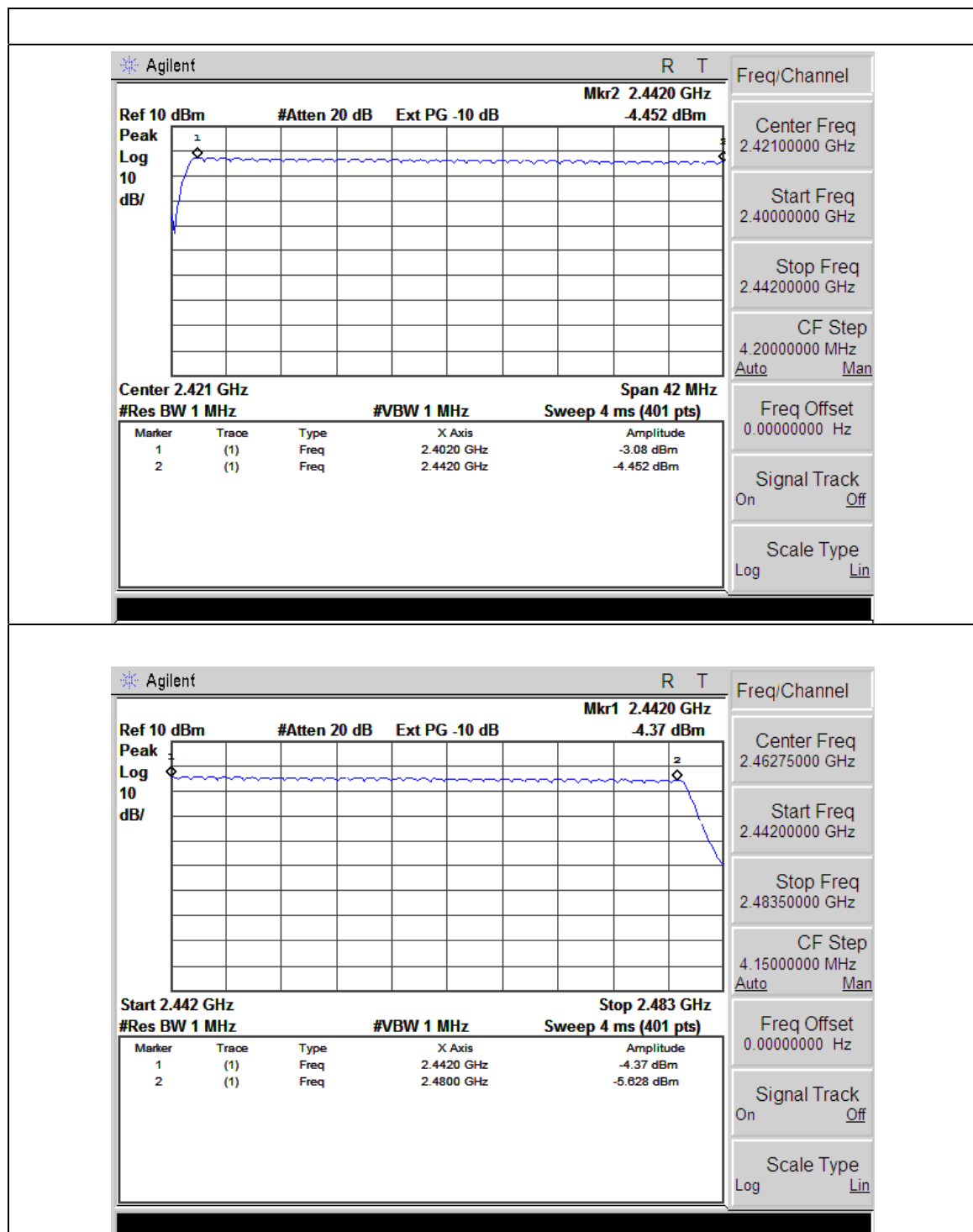
4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel	79
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5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- A Period Time = (channel number)*0.4
DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



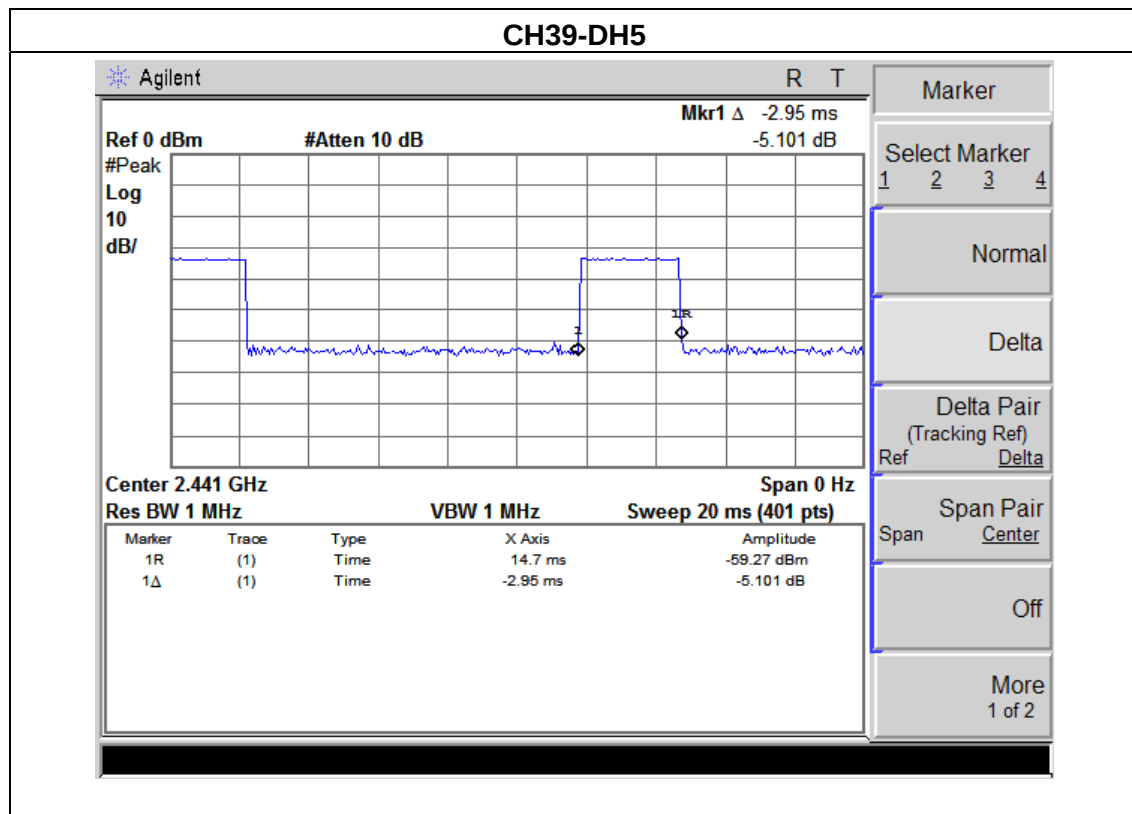
5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

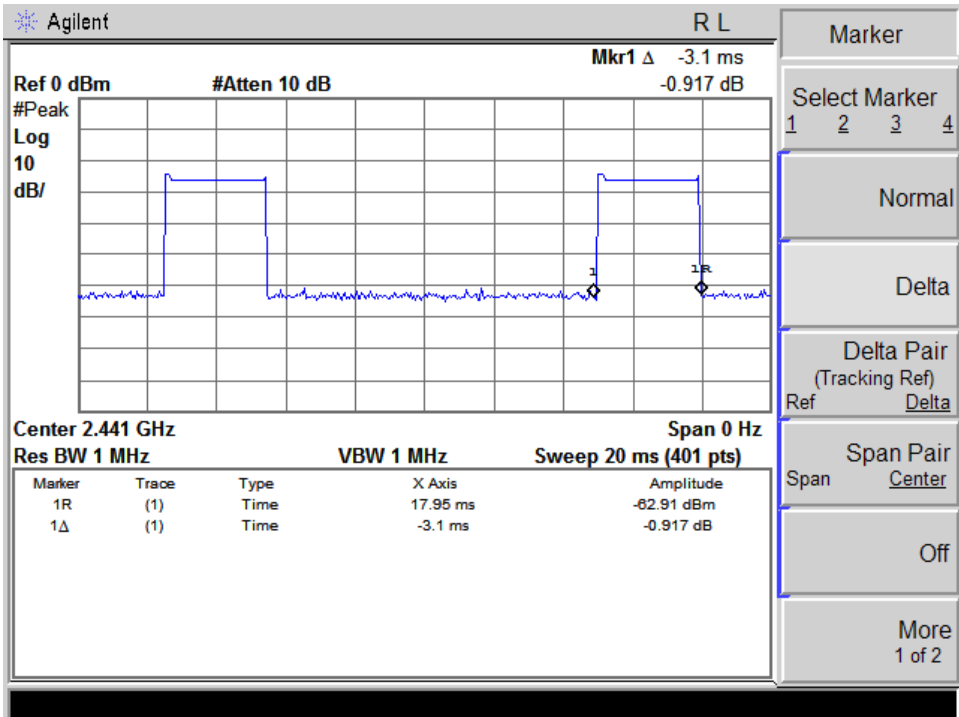
5.1.5 TEST RESULTS

EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

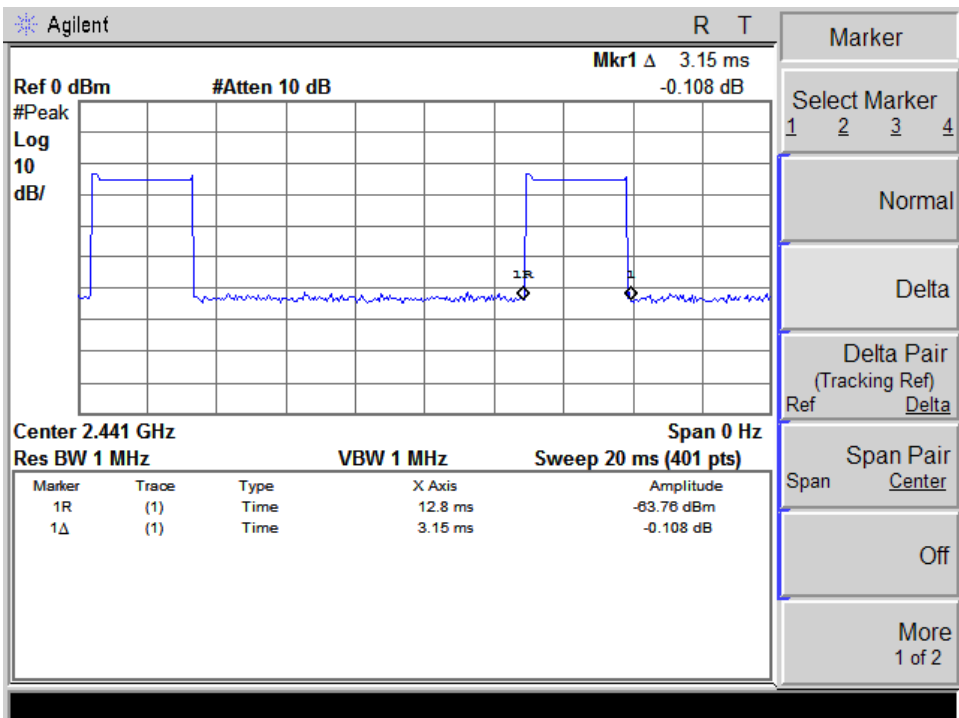
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	2.95	0.31	0.4
2DH5	2441 MHz	3.10	0.33	0.4
3DH5	2441 MHz	3.15	0.34	0.4



CH39-2DH5

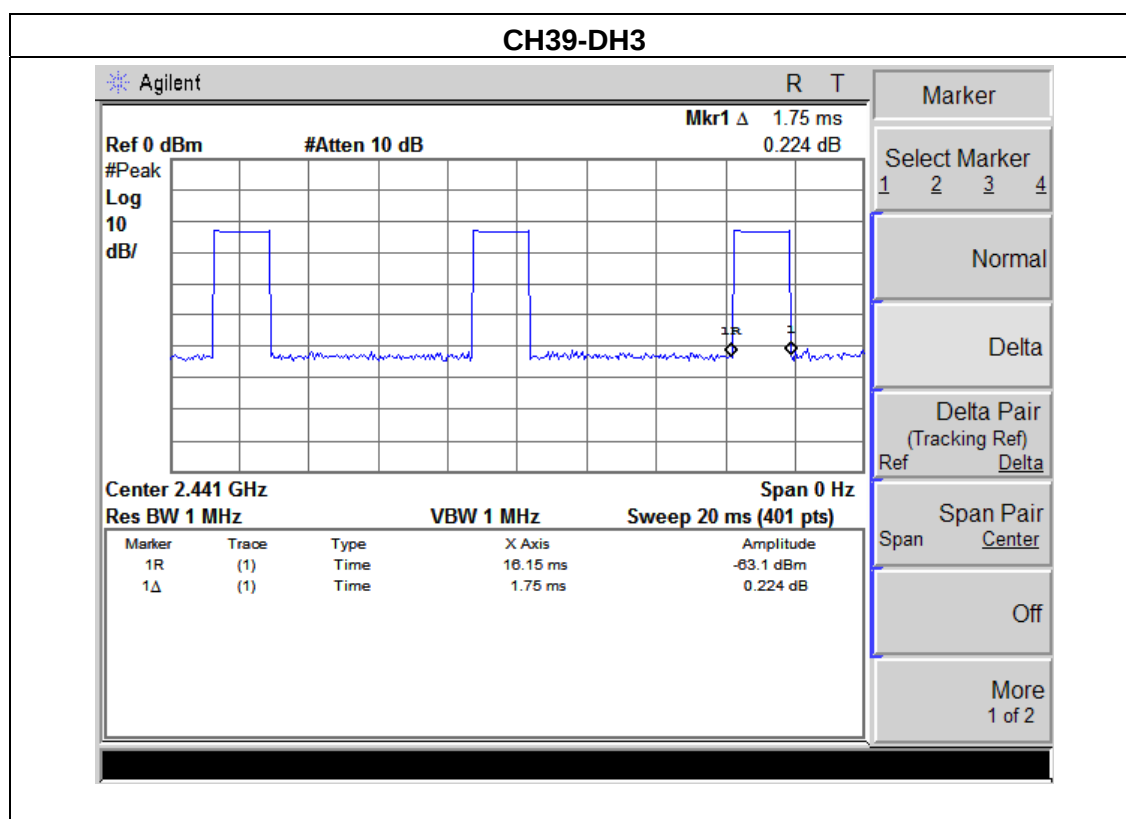


CH39-3DH5

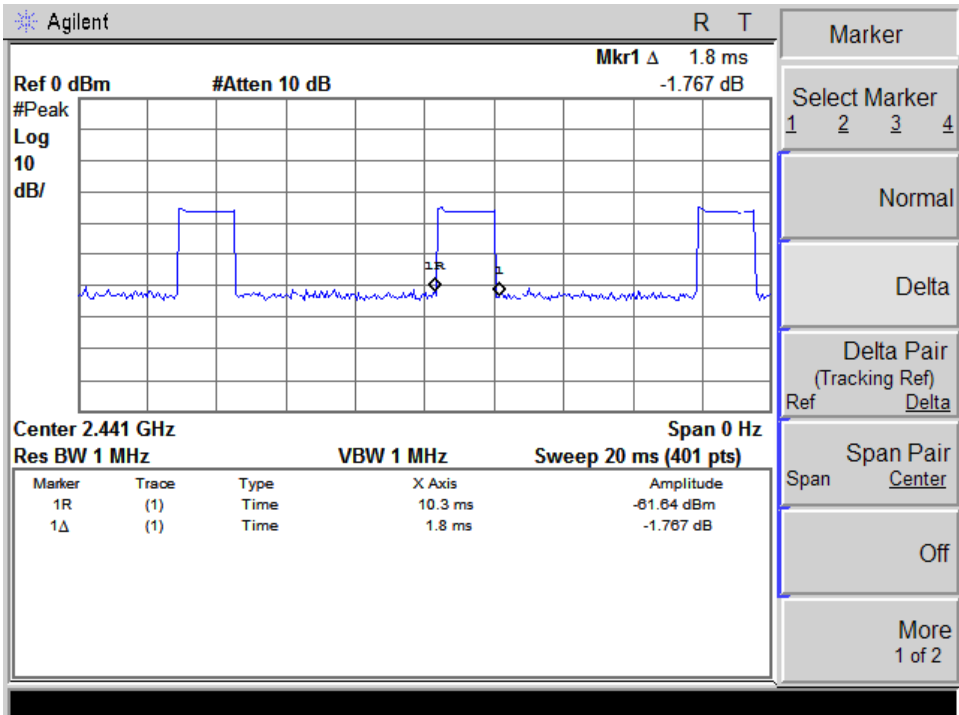


EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

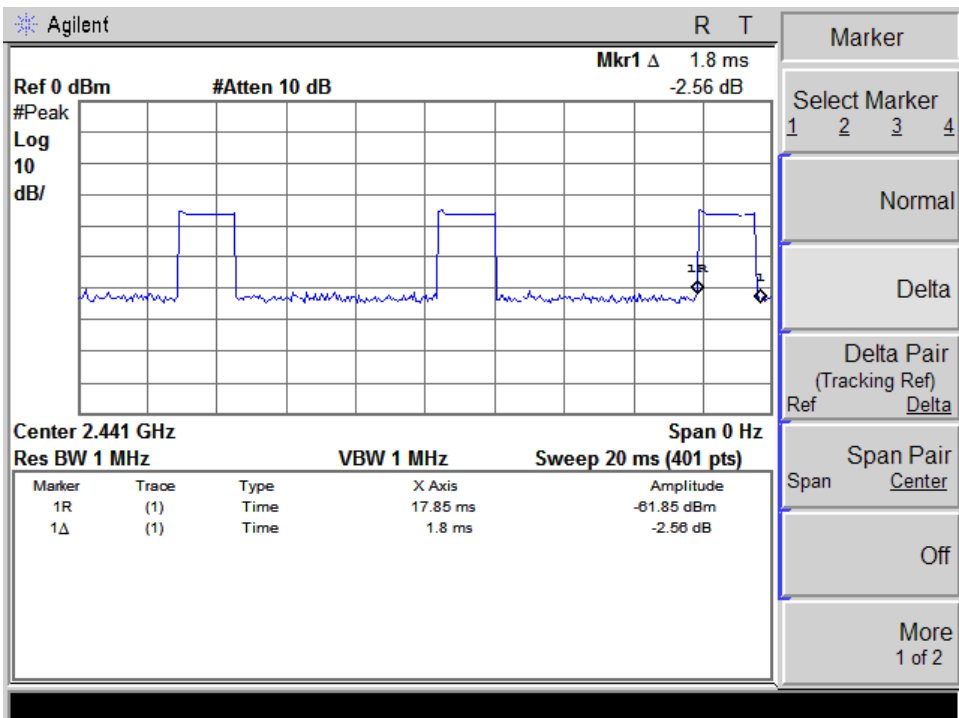
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH3	2441 MHz	1.75	0.28	0.4
2DH3	2441 MHz	1.80	0.29	0.4
3DH3	2441 MHz	1.80	0.29	0.4



CH39-2DH3

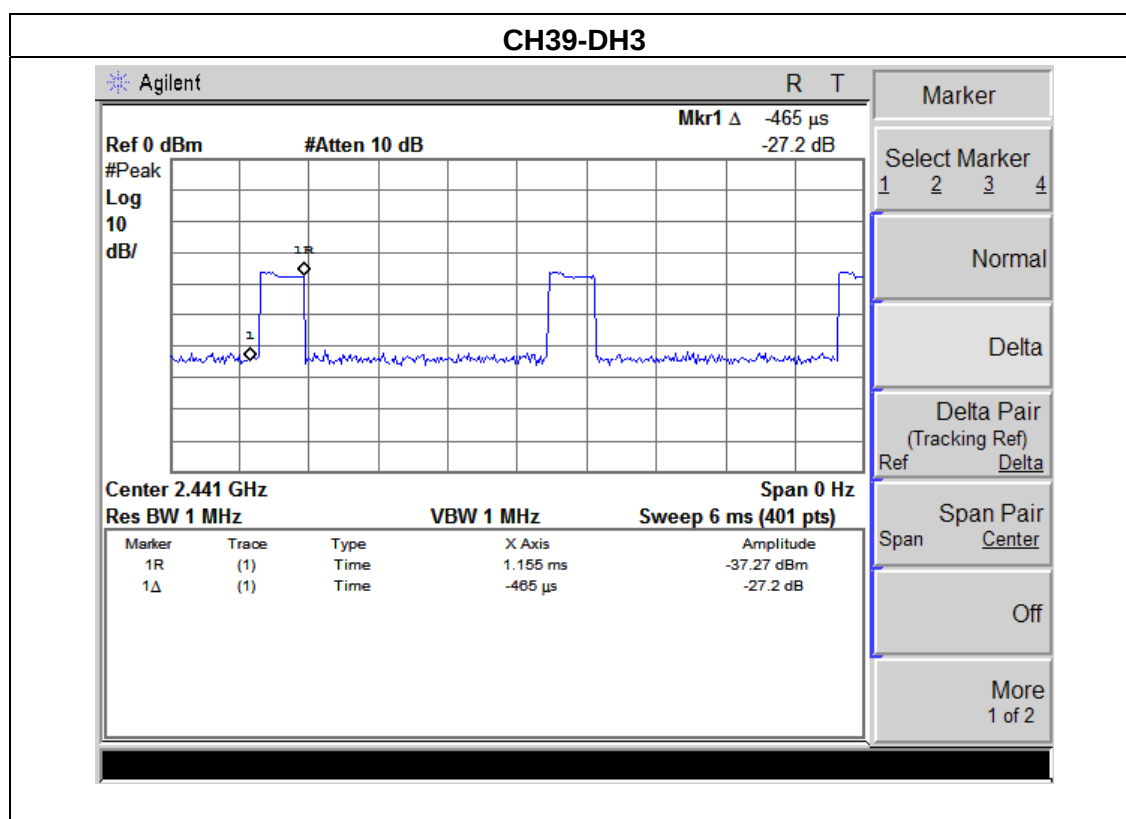


CH39-3DH3

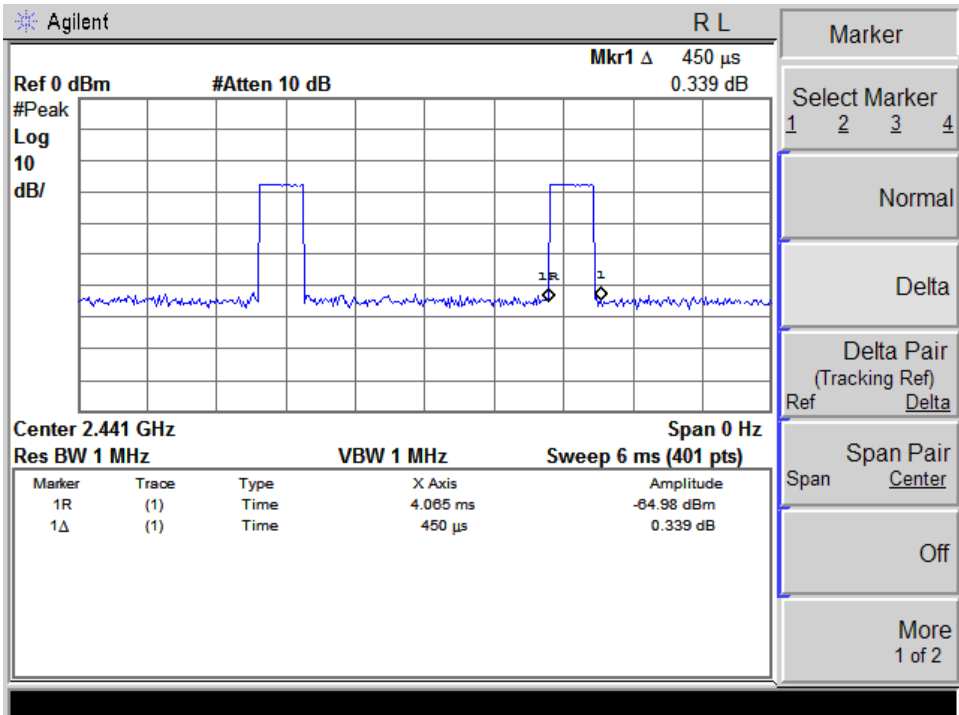


EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1,2DH1,3DH1		

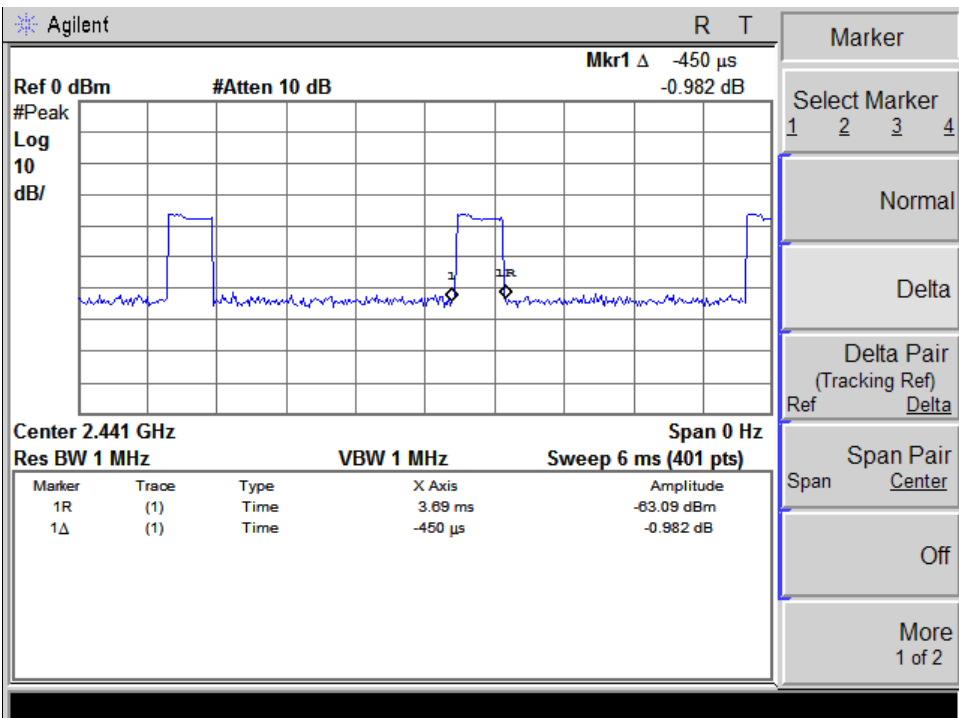
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.46	0.15	0.4
2DH1	2441 MHz	0.45	0.14	0.4
3DH1	2441 MHz	0.45	0.14	0.4



CH39-2DH3



CH39-3DH3



6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	100 kHz (Channel Separation)
VB	300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

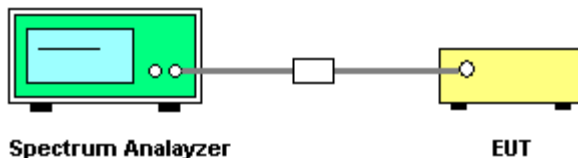
6.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

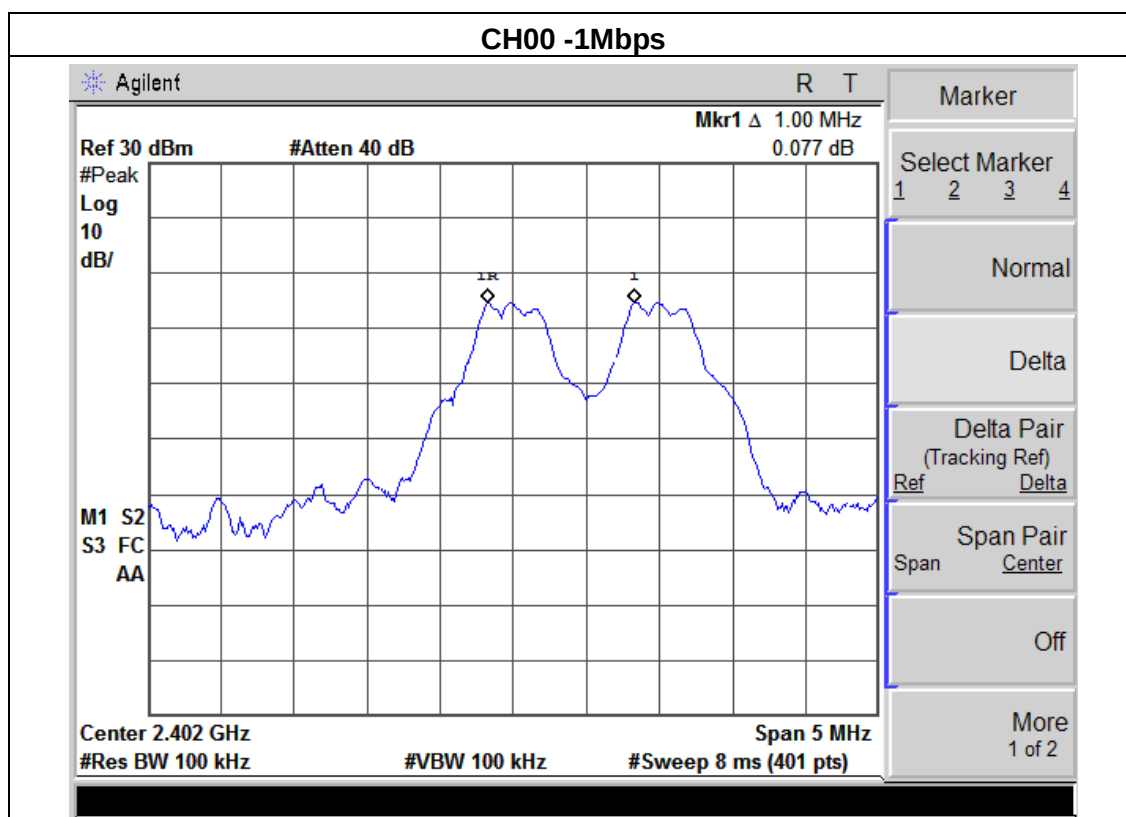
The EUT was programmed to be in continuously transmitting mode.

6.1.5 TEST RESULTS

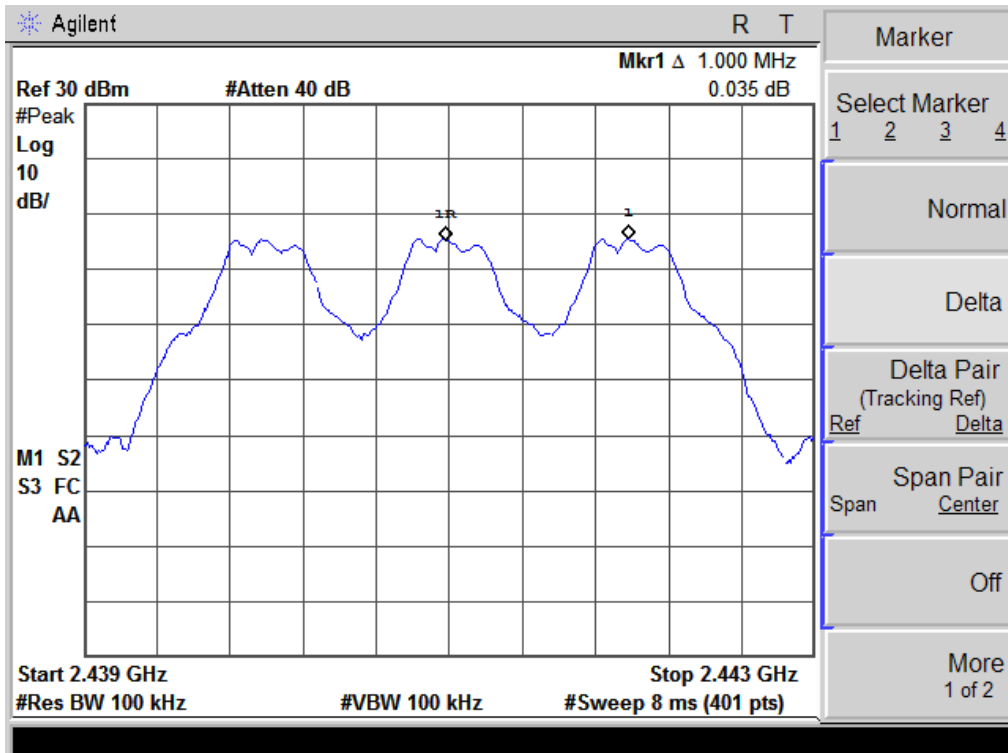
EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.000	Complies
2480 MHz	1.010	Complies

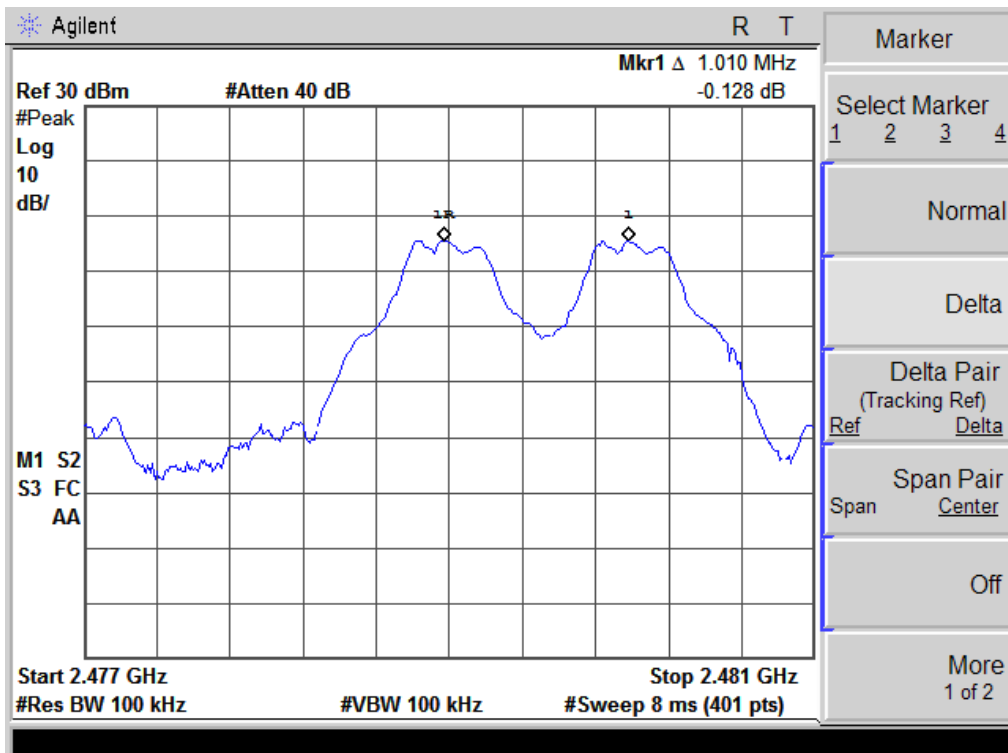
Ch. Separation Limits: > 2/3 of 20dB bandwidth



CH39 -1Mbps



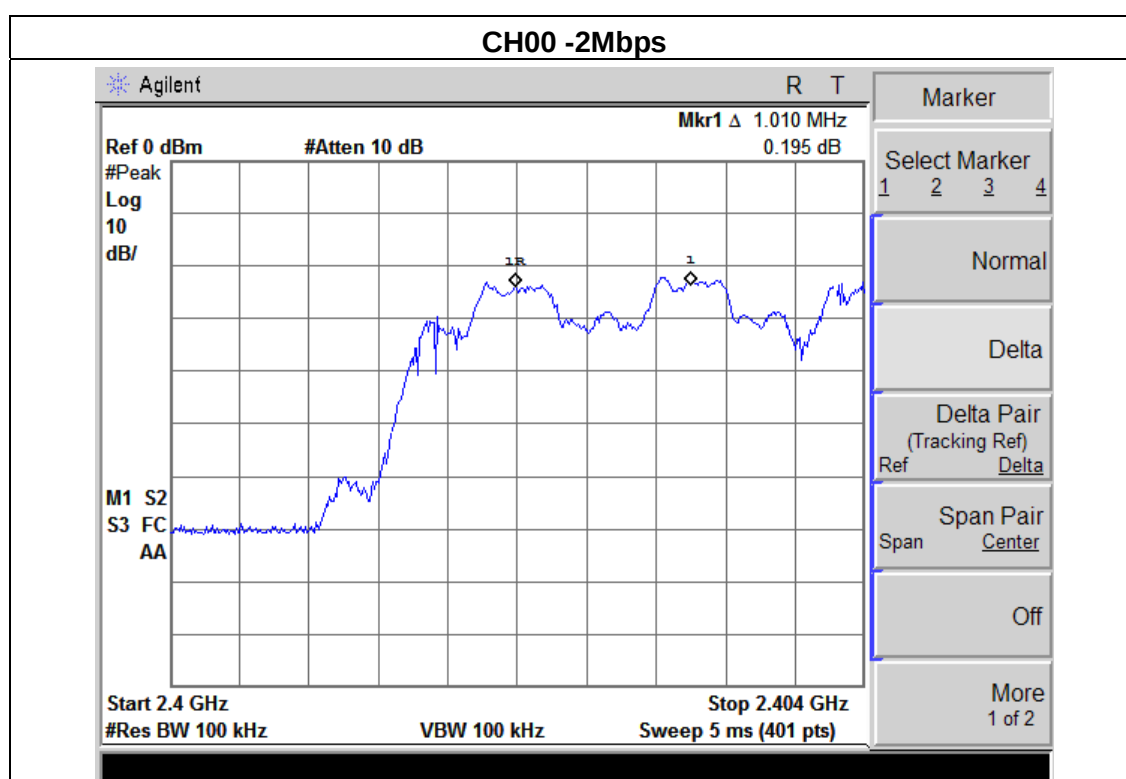
CH78 -1Mbps



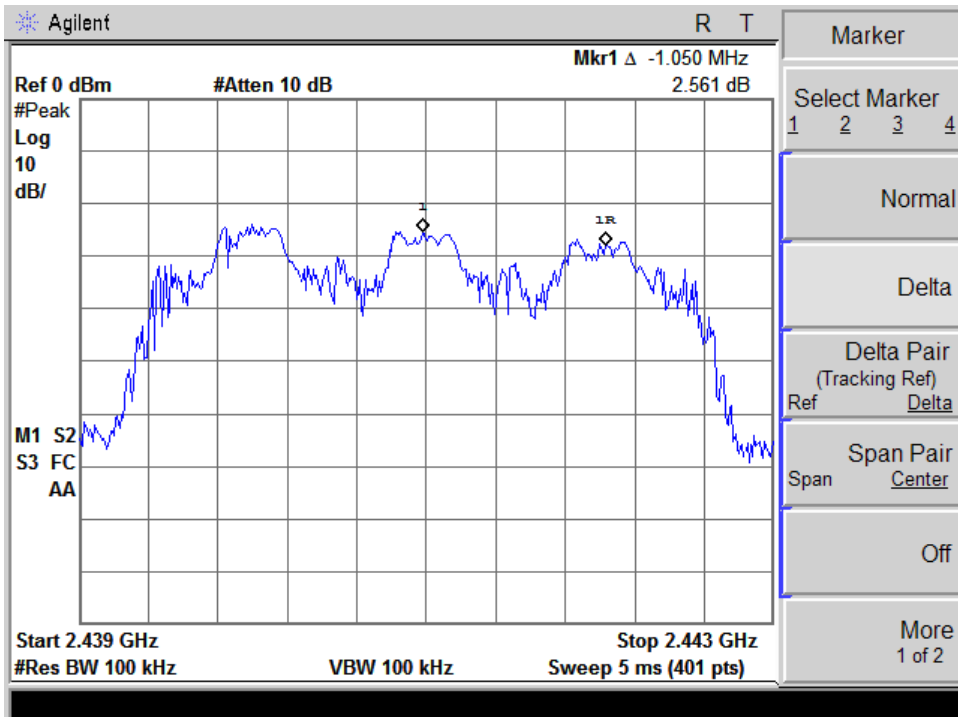
EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.010	Complies
2441 MHz	-1.050	Complies
2480 MHz	1.010	Complies

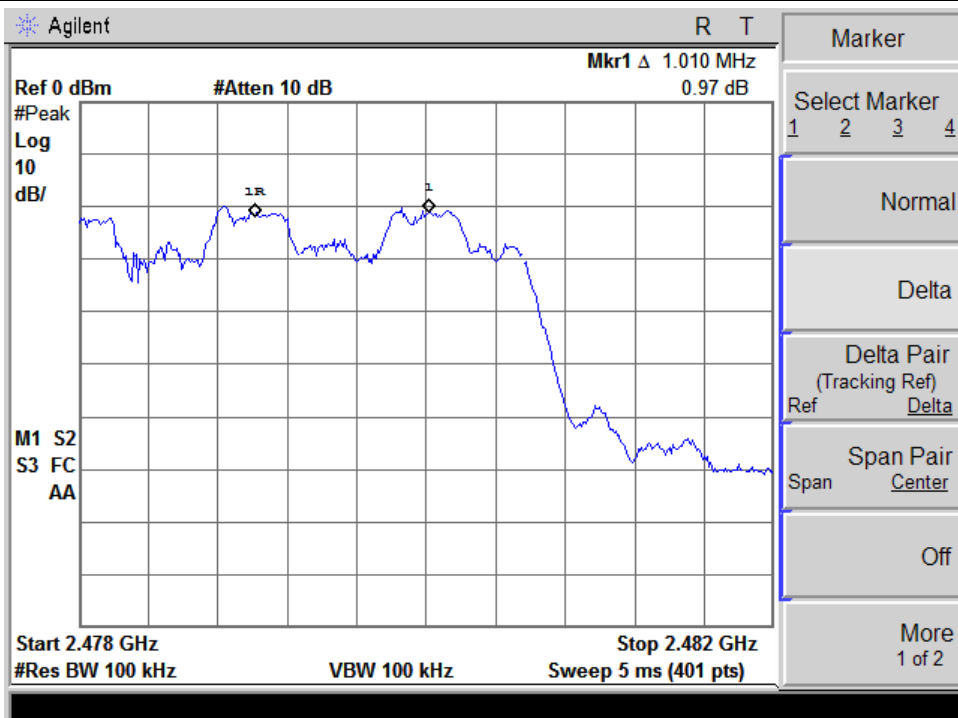
Ch. Separation Limits: >2/3 of 20dB bandwidth



CH39 -2Mbps



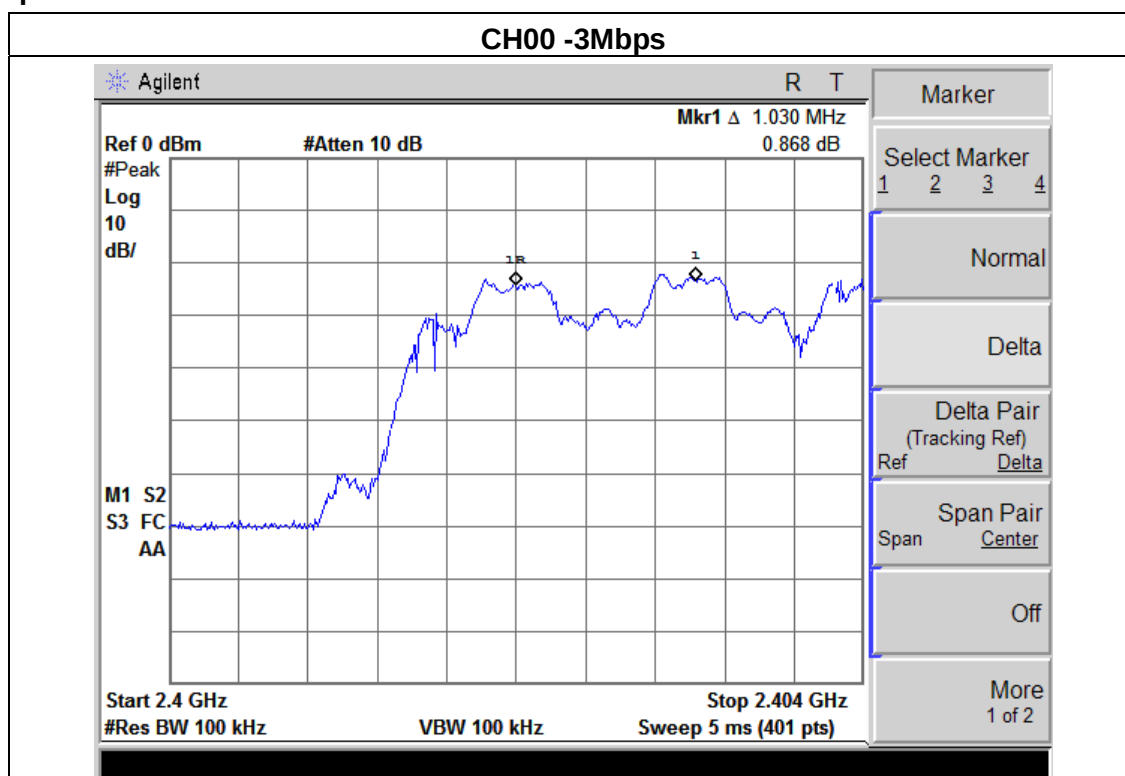
CH78 -2Mbps



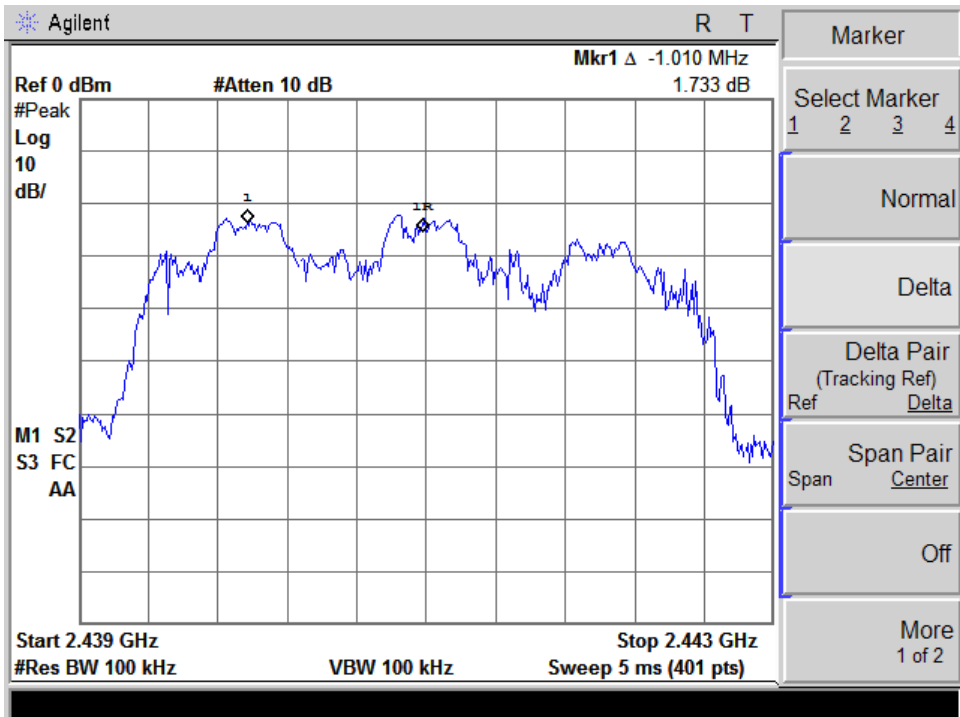
EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.030	Complies
2441 MHz	-1.010	Complies
2480 MHz	1.000	Complies

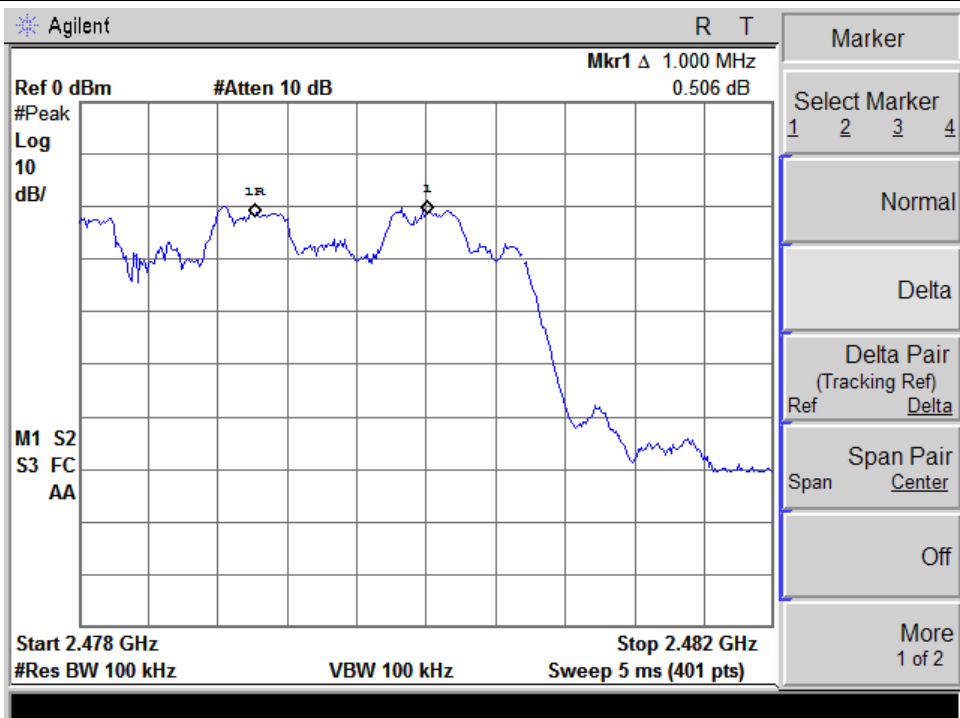
Ch. Separation Limits: >2/3 of 20dB bandwidth



CH39 -3Mbps



CH78 -3Mbps



7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

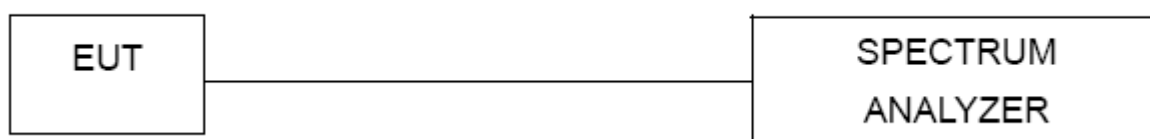
7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



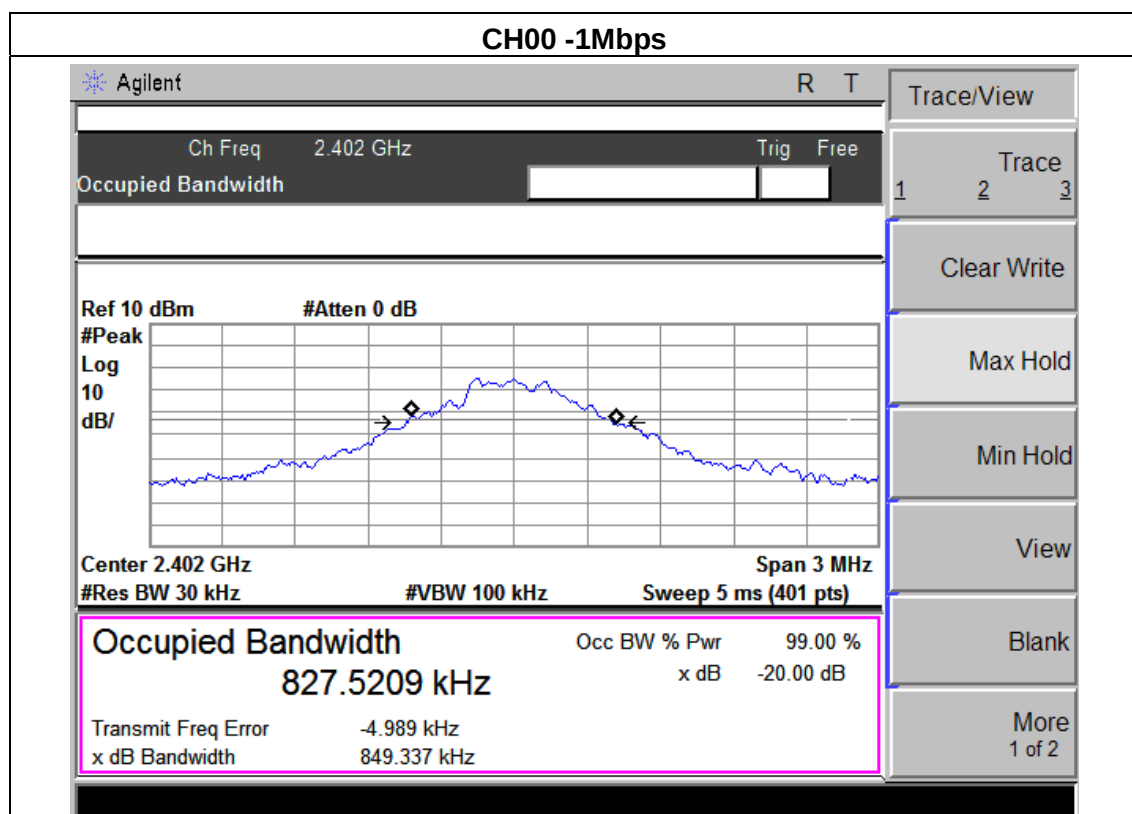
7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

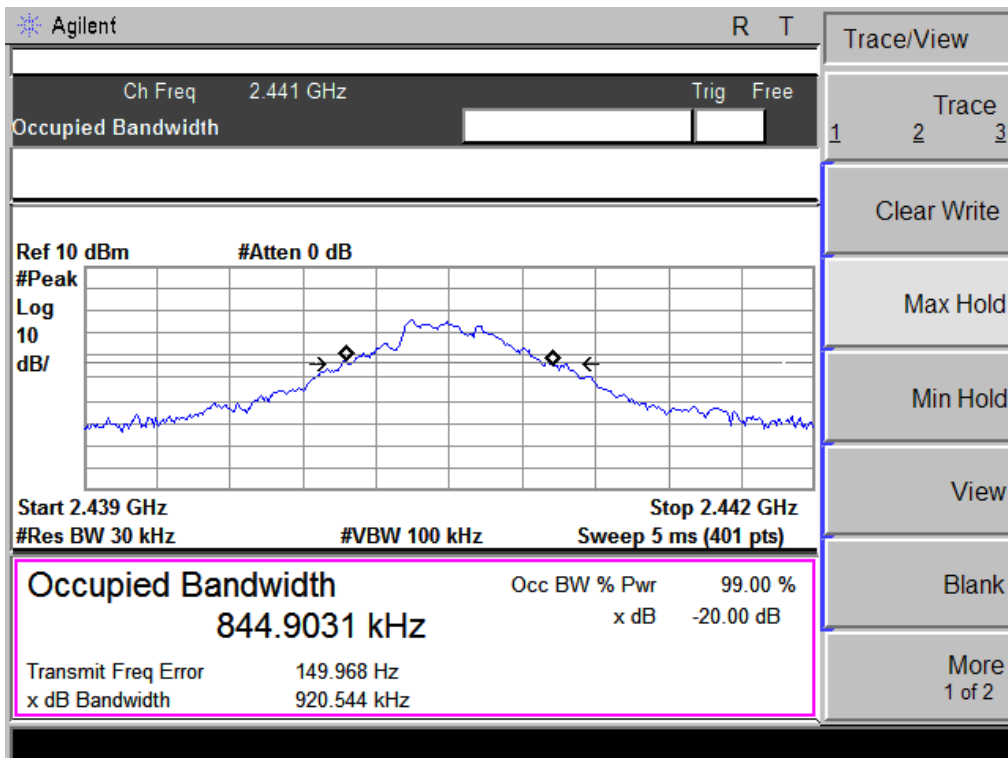
7.1.5 TEST RESULTS

EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

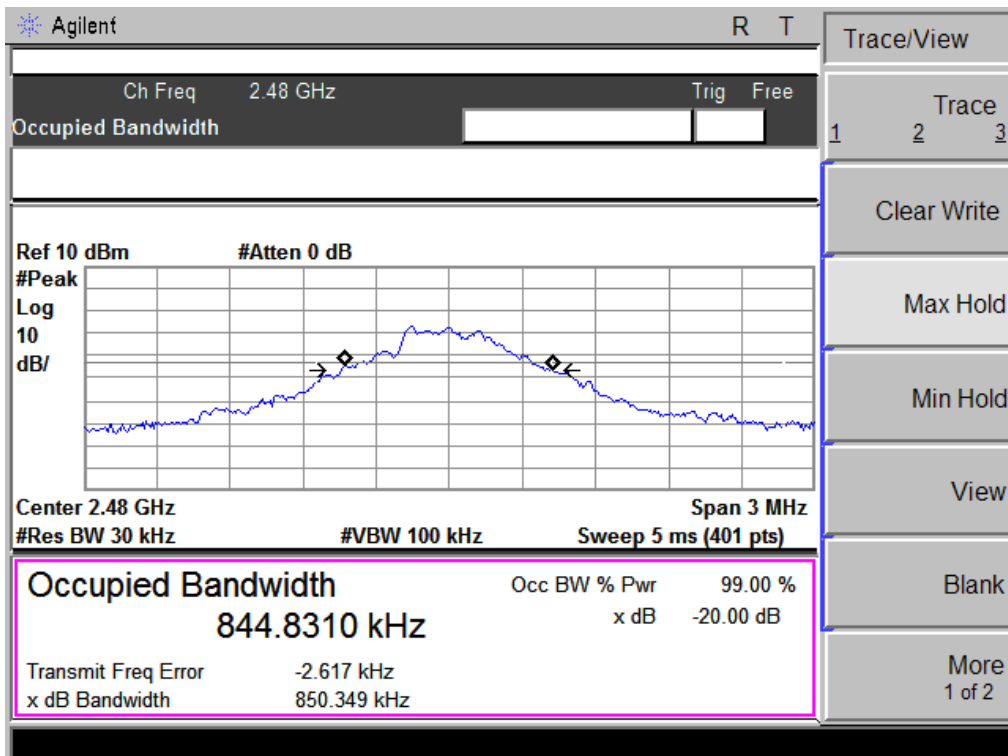
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	849.34	PASS
2441 MHz	920.54	PASS
2480 MHz	850.35	PASS



CH39 -1Mbps

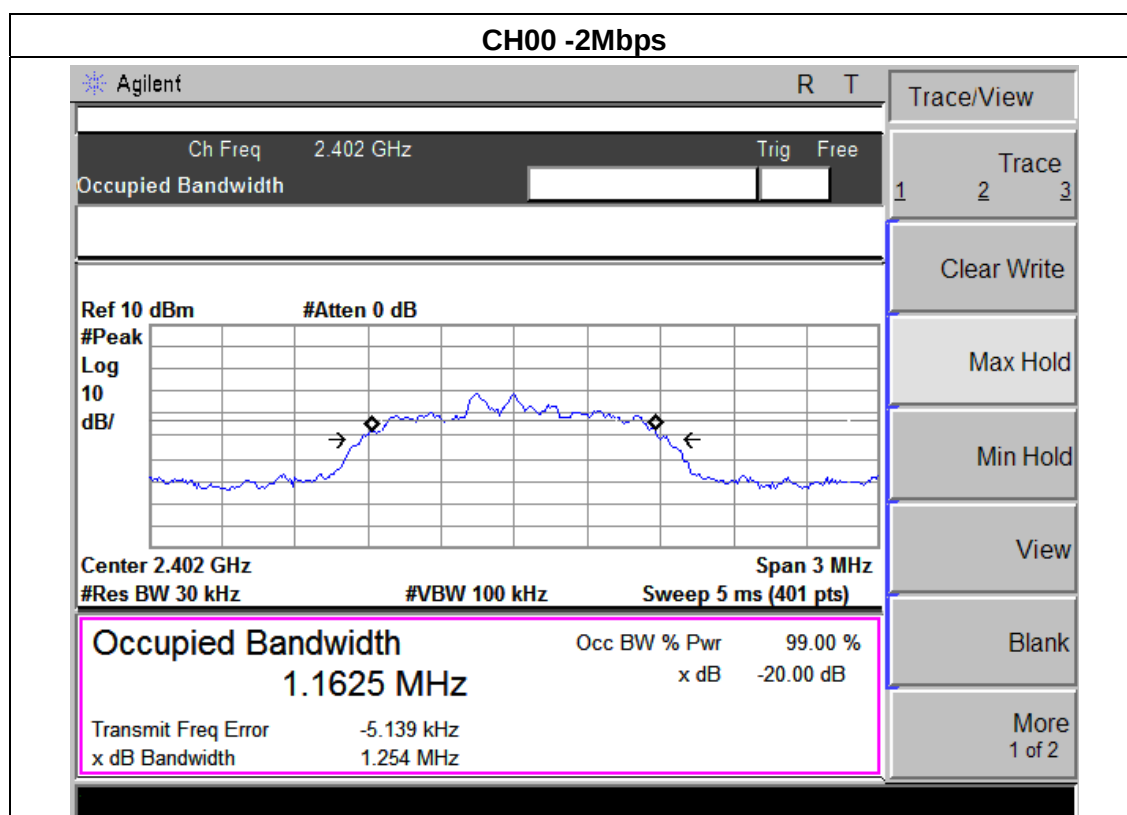


CH78 -1Mbps

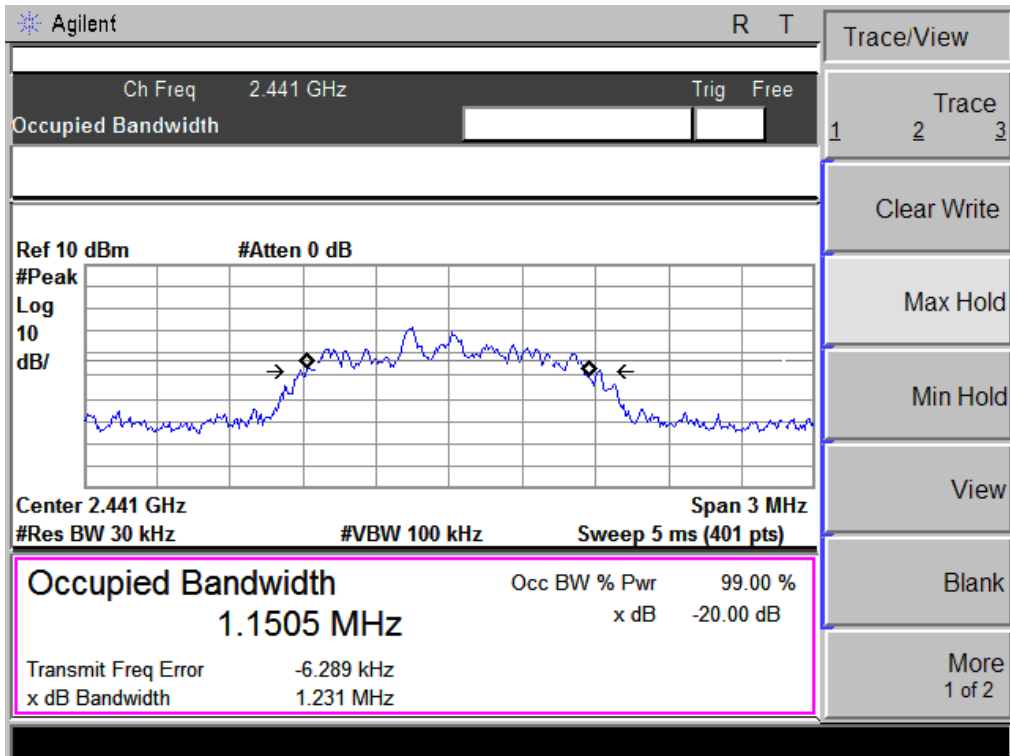


EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(2Mbps)		

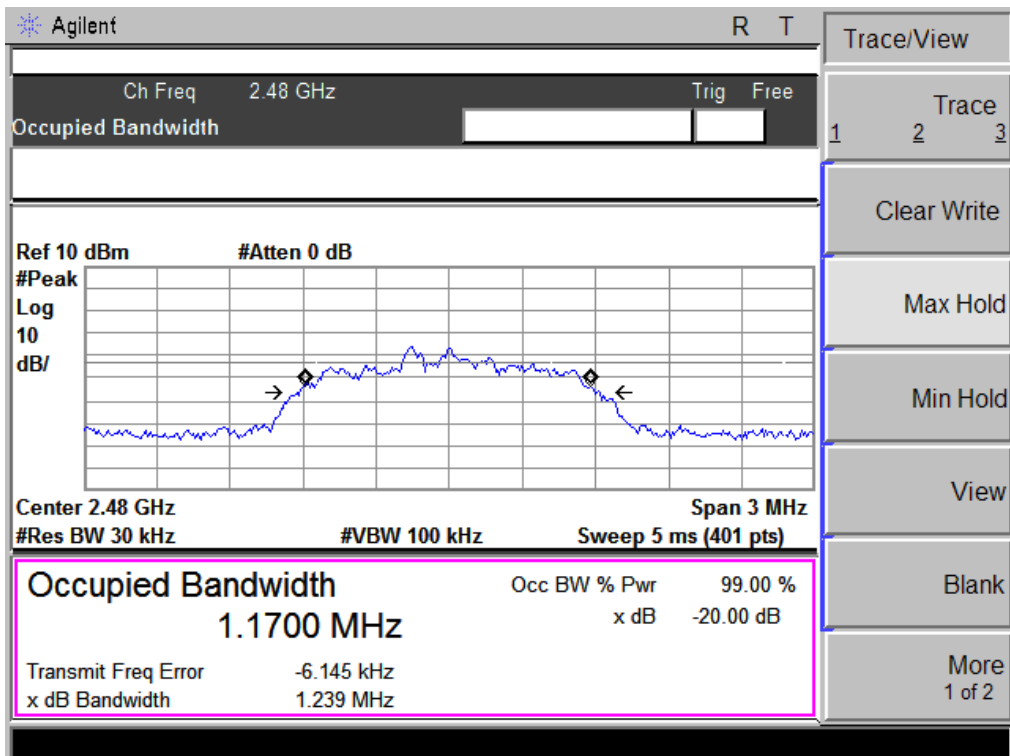
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.25	PASS
2441 MHz	1.23	PASS
2480 MHz	1.24	PASS



CH39 -2Mbps

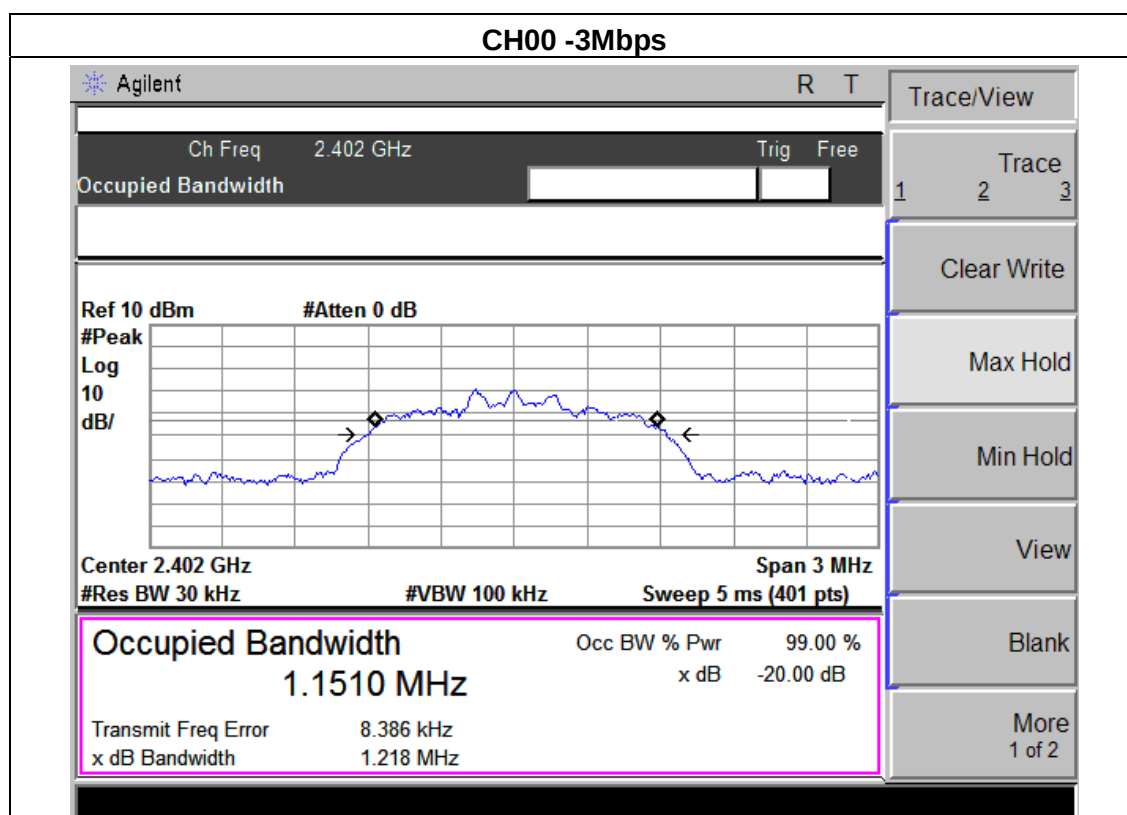


CH78 -2Mbps

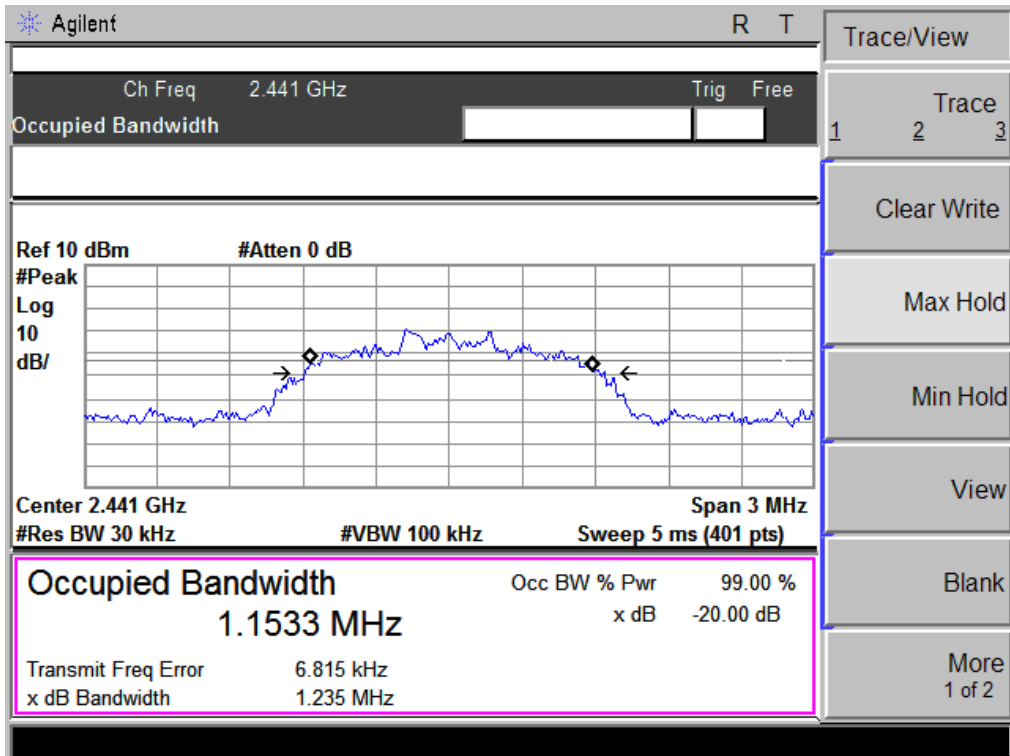


EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

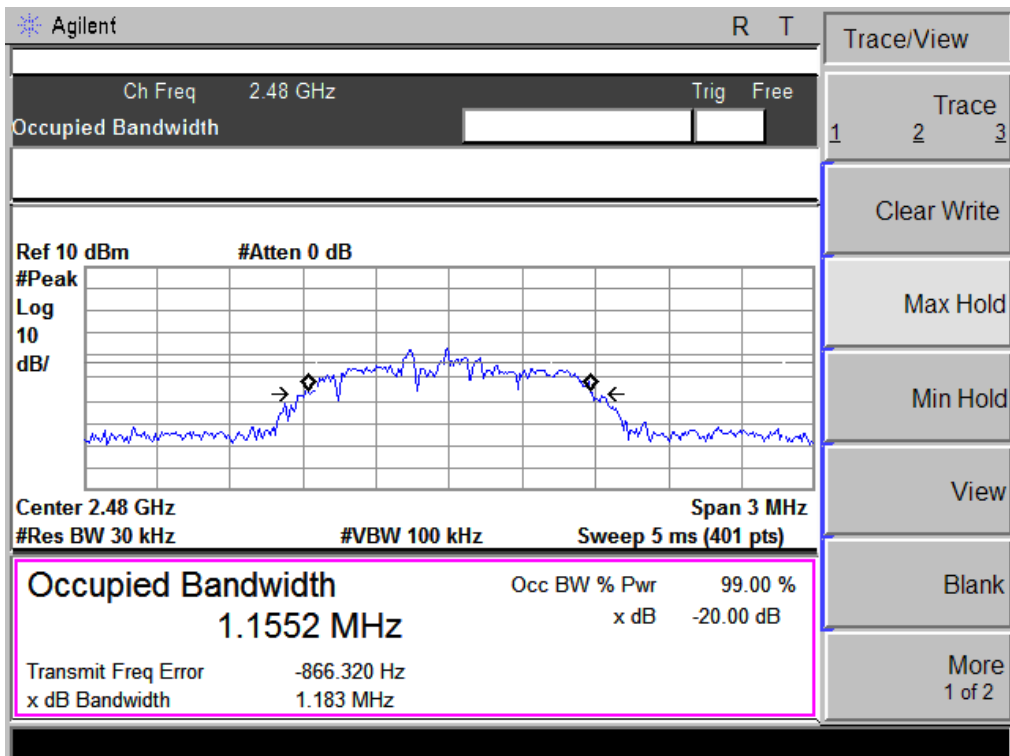
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.22	PASS
2441 MHz	1.24	PASS
2480 MHz	1.18	PASS



CH39 -3Mbps



CH78 -3Mbps



8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
VBW $\geq$ RBW
Sweep = auto
Detector function = peak
Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



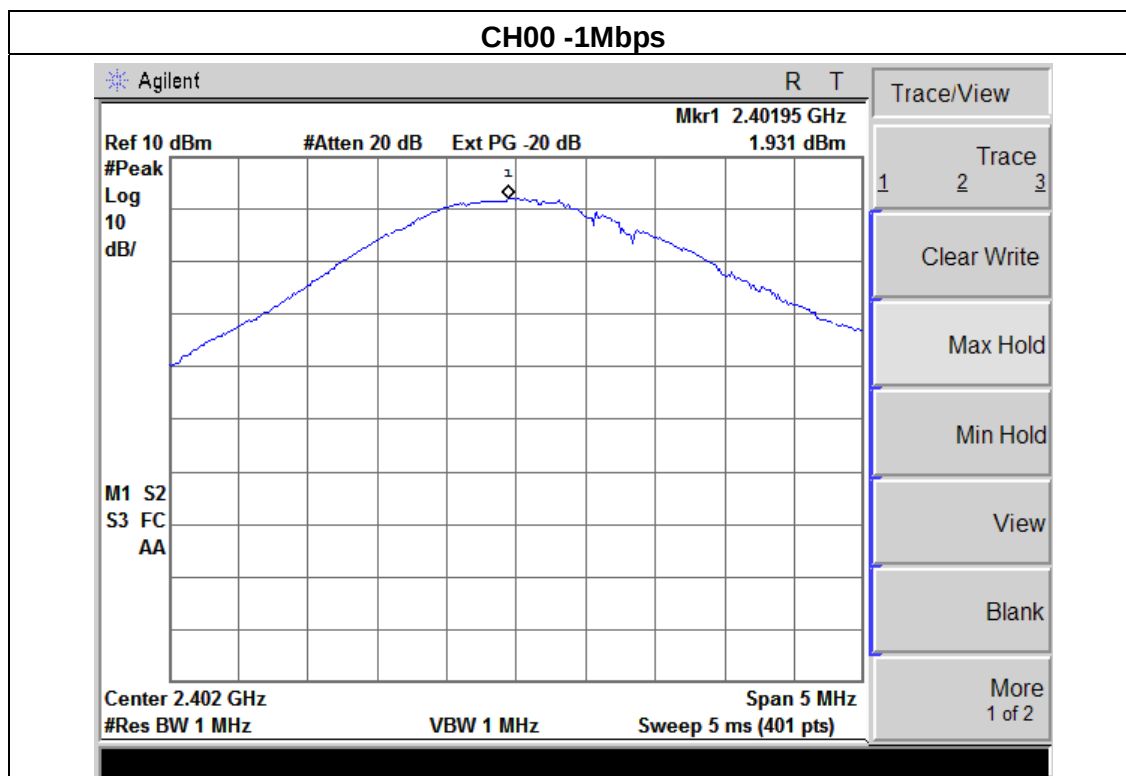
8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

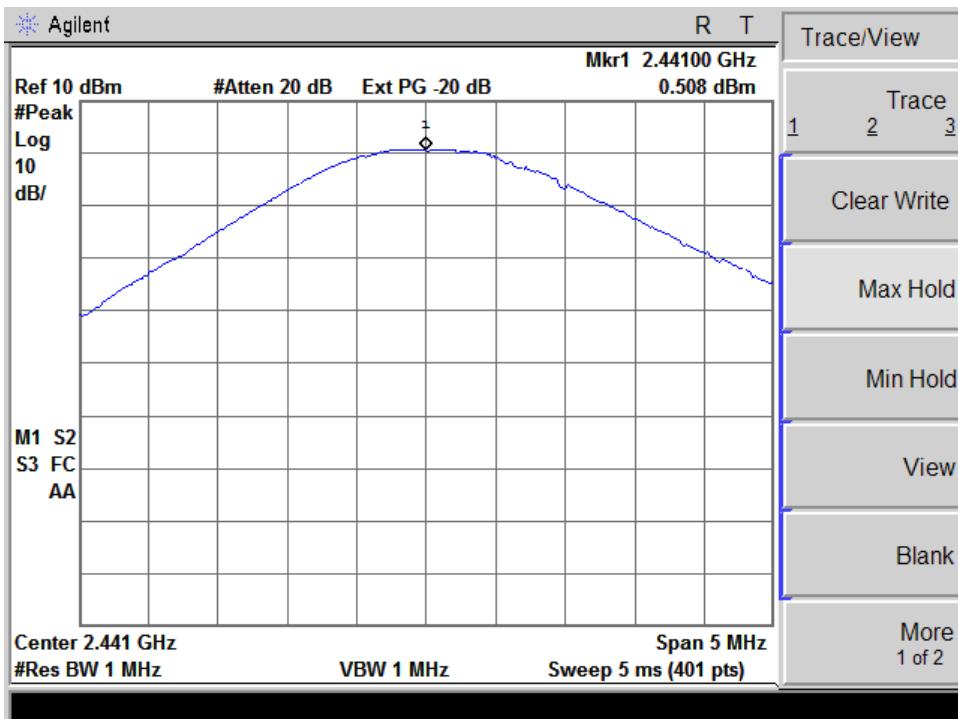
8.1.5 TEST RESULTS

EUT :	Tablet	Model Name :	T9500
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

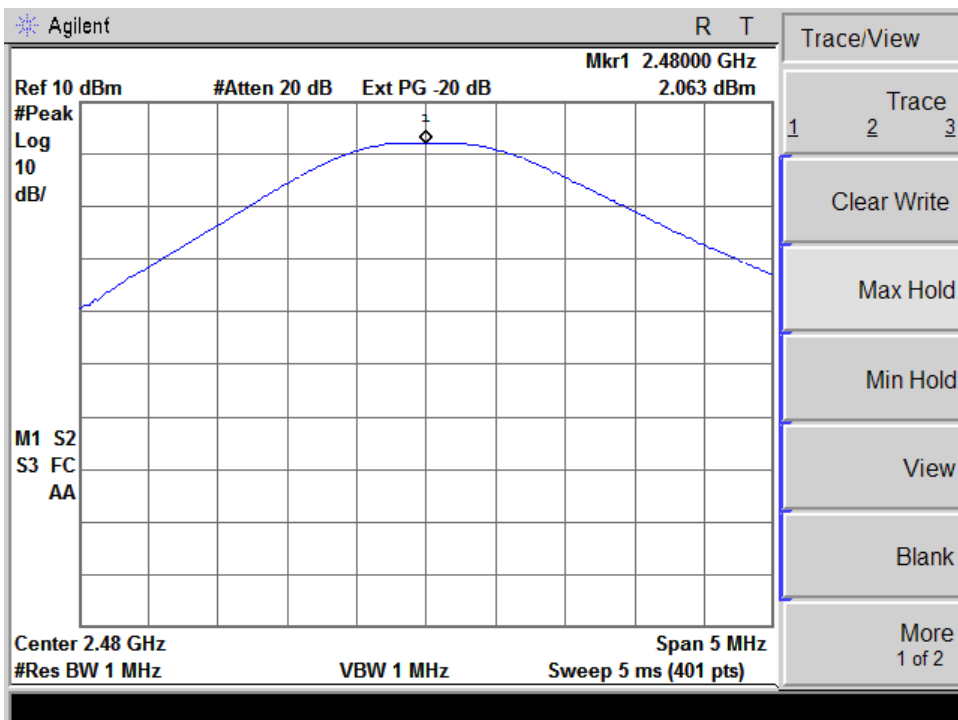
1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	1.931	30
CH39	2441	0.508	30
CH78	2480	2.063	30
2Mbps			
CH00	2402	-0.064	20.96
CH39	2441	-0.810	20.96
CH78	2480	-0.736	20.96
3Mbps			
CH00	2402	-0.929	20.96
CH39	2441	-0.168	20.96
CH78	2480	-0.370	20.96

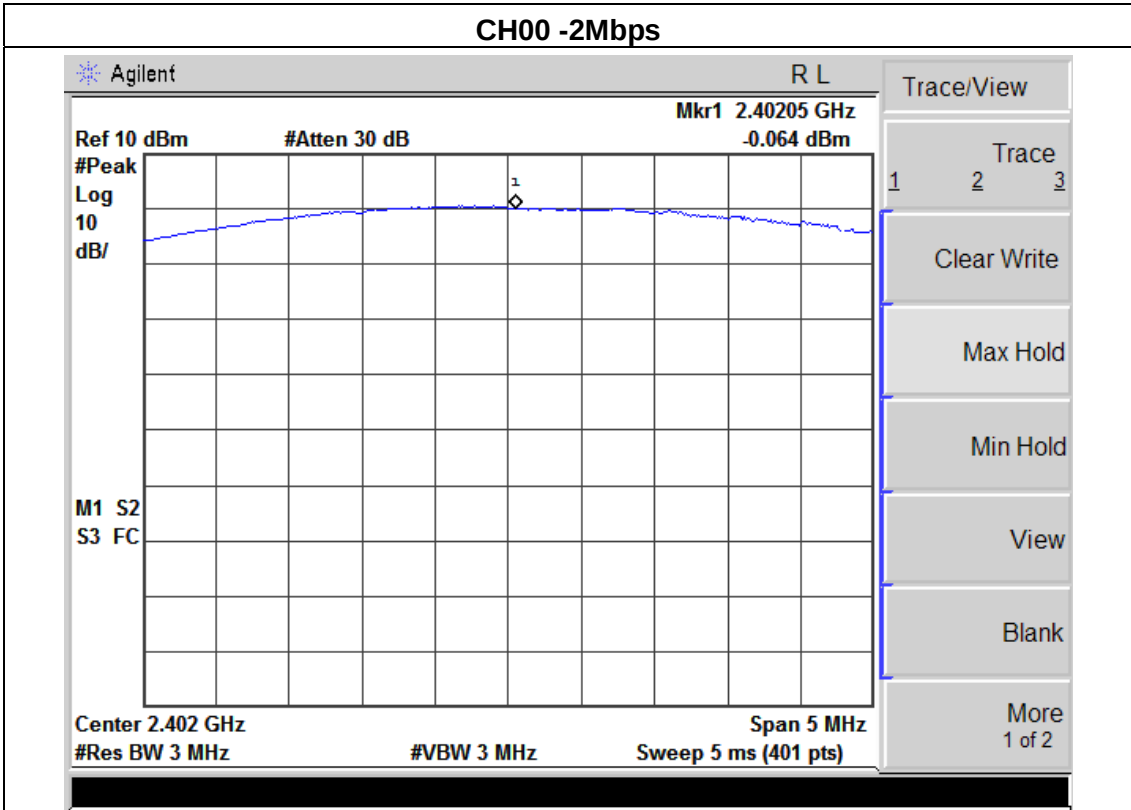


CH39 -1Mbps

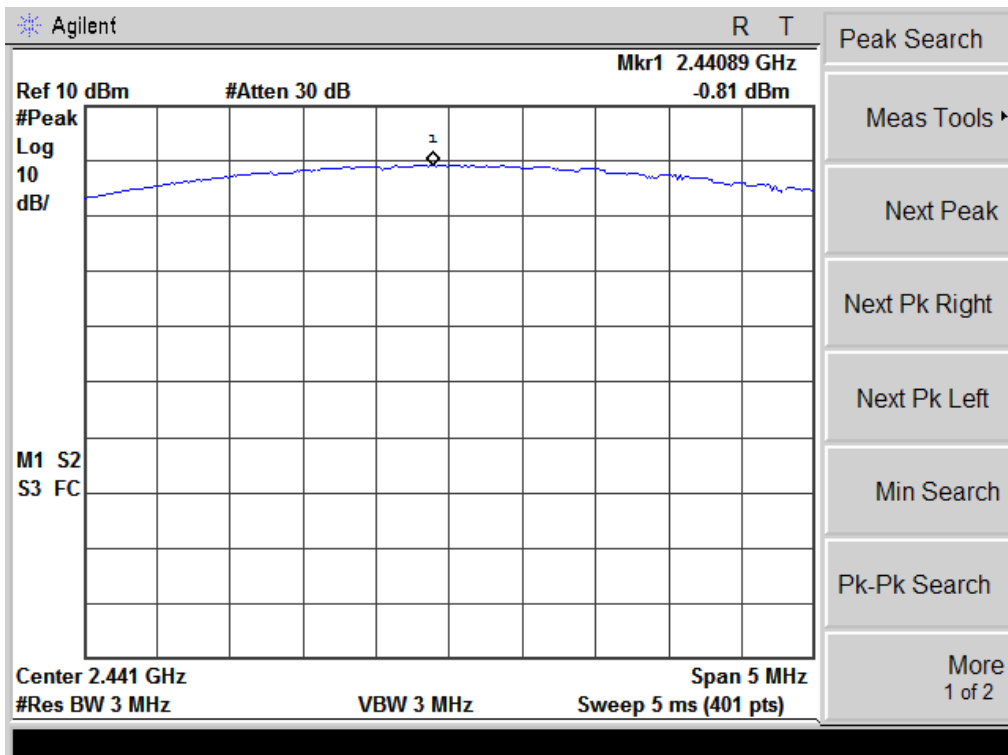


CH78 -1Mbps

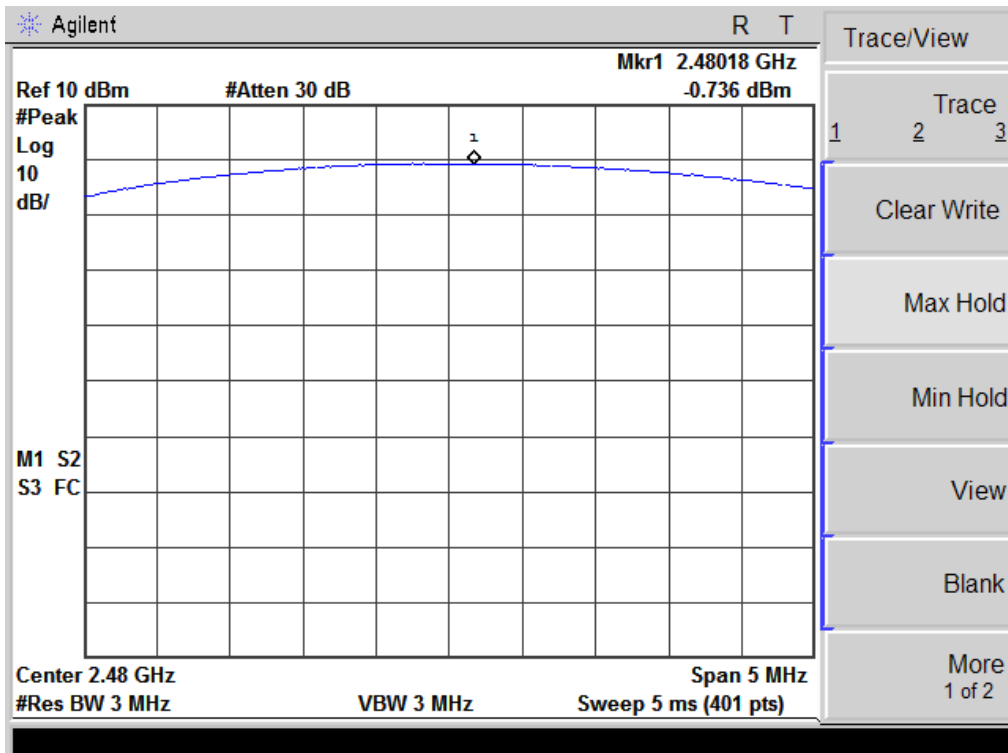


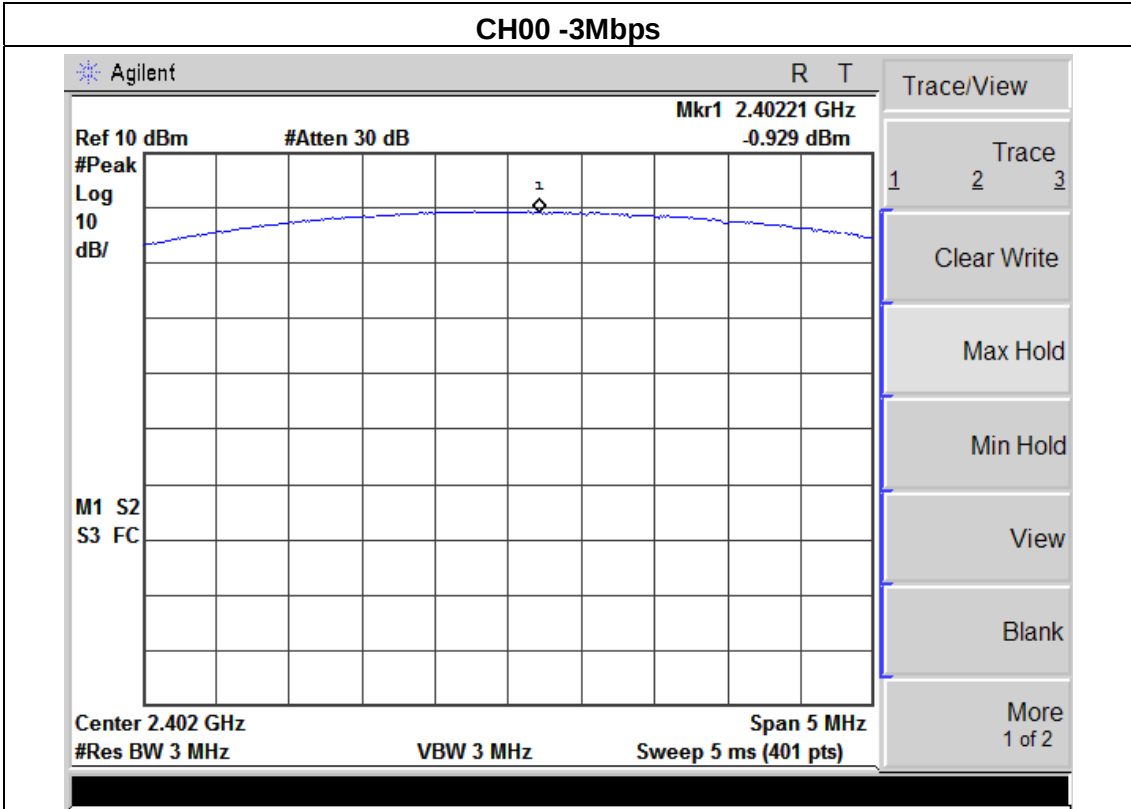


CH39 -2Mbps

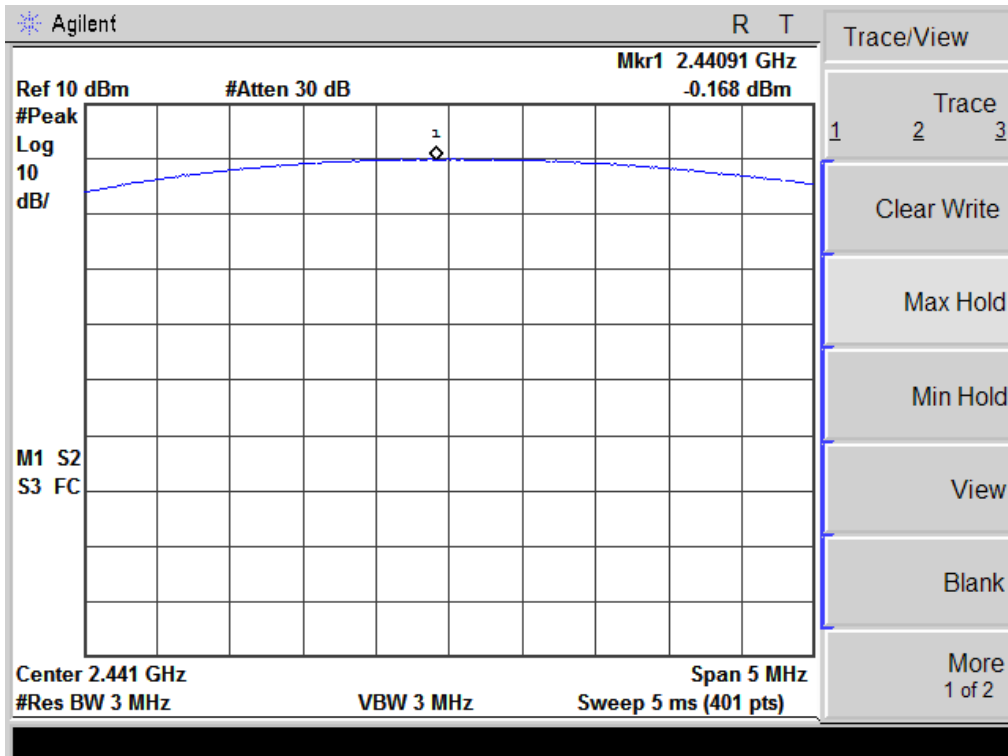


CH78 -2Mbps

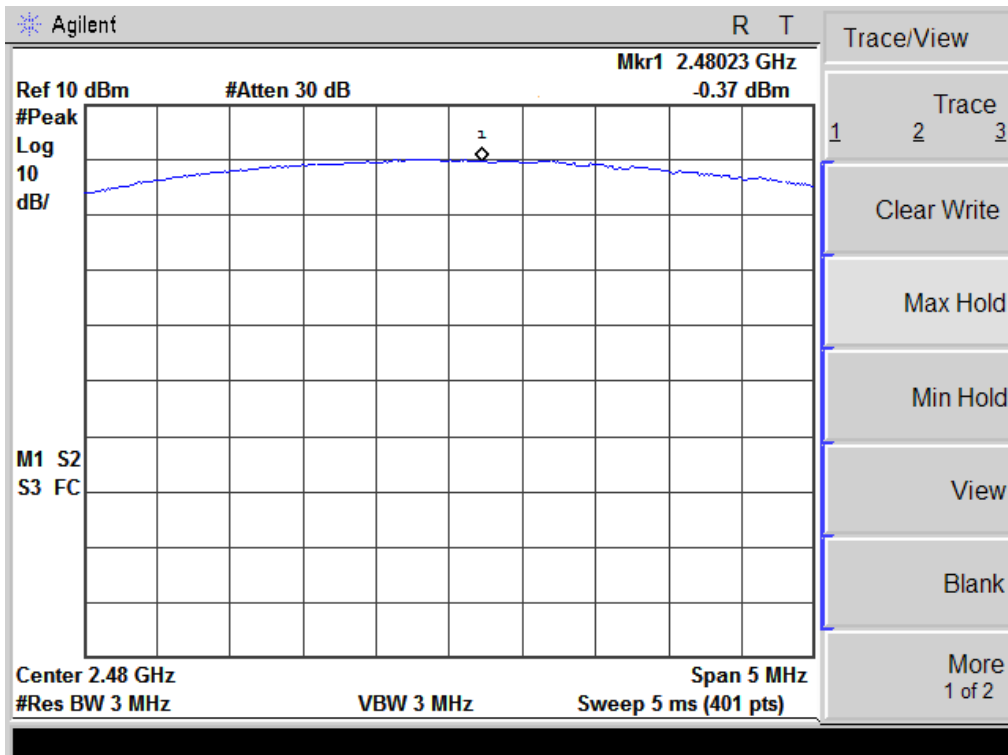




CH39 -3Mbps



CH78 -3Mbps



9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

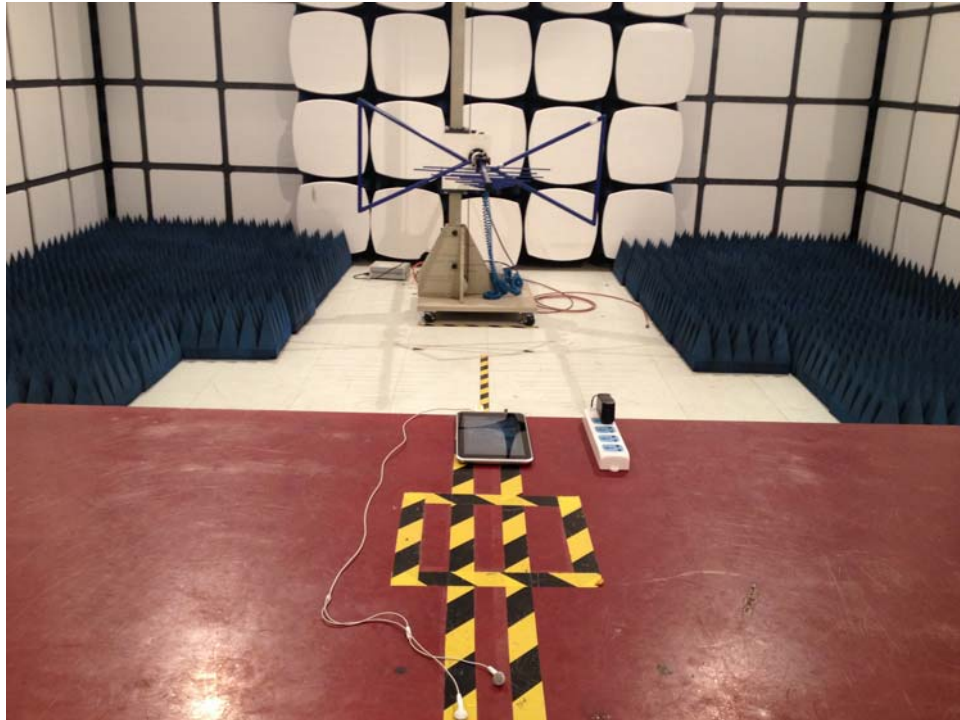
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

9.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.

10. EUT TEST PHOTO

Radiated Measurement Photos



CONDUCTED EMISSION Photos

