

FCC RADIO TEST REPORT-BT FCC ID:2ABFV-PGOB9

Product: Pc smart

Trade Name: N/A

Model Name: PTSGOB09-A

Serial Model: N/A

Report No.: NTEK-2015NT06272141F2

Prepared for

PC Smart S.A.

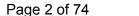
Carrera 116 no.15-25, Bogota, Colombia

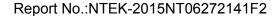
Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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

Tel.: +86-0755-61156588 Fax.: +86-0755-61156599 Website:www.ntek.org.cn







TEST	RESULT	CERTIF	ICATIO	ИC
$I \perp \cup I$	INLOULI			

Applicant's name: PC Smart S.A.

Address Carrera 116 no.15-25, Bogota, Colombia

Manufacture's Name.....: Locopo Technolgy Co.,Ltd.

Address: Rm./Flat 1501(056), 15/F,Spa Centre,53-55 Lockhart Road,

Wan Chai, Kong Kong.

Product description

Product name Pc smart

Model and/or type reference : PTSGOB09-A

Serial Model: N/A

Standards FCC Part15.247: 01 Oct. 2014

Test procedure ANSI C63.10-2013

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date of Issue 08 Jul. 2015

Test Result..... Pass

Testing Engineer: Eileen Wu.

(Eileen Liu)

Technical Manager :

(Brown Lu)

Authorized Signatory:

(Bill Yao)



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS 1.1 TEST FACILITY	5 6
1.2 MEASUREMENT UNCERTAINTY	6
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	9
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 10
2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3 . EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE	14 15
3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD	15 15
3.1.4 TEST SETUP	15
3.1.5 EUT OPERATING CONDITIONS	15
3.1.6 TEST RESULTS	16
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	24 24
3.2.2 TEST PROCEDURE	2 4 25
3.2.3 DEVIATION FROM TEST STANDARD	25
3.2.4 TEST SETUP	26
3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ)	27 28
3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)	29
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	31
4 . NUMBER OF HOPPING CHANNEL	32
4.1 APPLIED PROCEDURES / LIMIT	32
4.1.1 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD	32 32
4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP	32 32
4.1.4 EUT OPERATION CONDITIONS	32
4.1.5 TEST RESULTS	33
5 . AVERAGE TIME OF OCCUPANCY	34
5.1 APPLIED PROCEDURES / LIMIT	34



Table of Contents

Table of Contents	Page
5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP 5.1.4 EUT OPERATION CONDITIONS 5.1.5 TEST RESULTS	34 34 35 35 36
6 . HOPPING CHANNEL SEPARATION MEASUREMENT	42
6.1 APPLIED PROCEDURES / LIMIT 6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD 6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS 6.1.5 TEST RESULTS	42 42 42 42 42 43
7 . BANDWIDTH TEST	49
7.1 APPLIED PROCEDURES / LIMIT 7.1.1 TEST PROCEDURE 7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP 7.1.4 EUT OPERATION CONDITIONS 7.1.5 TEST RESULTS	49 49 49 49 49 50
8 . PEAK OUTPUT POWER TEST	56
8.1 APPLIED PROCEDURES / LIMIT 8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD 8.1.3 TEST SETUP 8.1.4 EUT OPERATION CONDITIONS 8.1.5 TEST RESULTS	56 56 56 56 56 57
9 . 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE 9.1 DEVIATION FROM STANDARD 9.2 TEST SETUP 9.3 EUT OPERATION CONDITIONS 9.4 TEST RESULTS	63 63 63 63
10 . ANTENNA REQUIREMENT	72
10.1 STANDARD REQUIREMENT	72
10.2 EUT ANTENNA	72
11 . EUT TEST PHOTO APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	73



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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Pc smart			
Trade Name	N/A			
Model Name	PTSGOB09-A			
Serial Model	N/A			
Model Difference	N/A			
	The EUT is a Pc smart			
	Operation Frequency:	2402~2480 MHz		
	Modulation Type:	BT(1Mbps): GFSK		
5 5	"	BT EDR(2Mbps): π /4-DQPSK		
Product Description		BT EDR(3Mbps): 8-DPSK		
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps		
	Number Of Channel	79 CH		
	Antenna Designation:	Please see Note 3.		
Channel List	Please refer to the Note 2.			
	Mode: SJ-0525-U			
Adapter	Input: 100-240V~, 50/60Hz, 0.5A			
	Output: 5V===, 2.5A			
Battery	DC 3.7V			
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

		Chann	el 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	N/A	1.0	BT Antenna

Page 9 of 74



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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	normal link

For Conducted Emission				
Final Test Mode Description				
Mode 4 normal 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 3Mbps for radiated emission due to the highest RF output power.

2.3 TABLE OF PARAMETERS OF TEXT 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	Tes	st program: Broadc	om
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1/2/3Mbps)	DEF	DEF	DEF

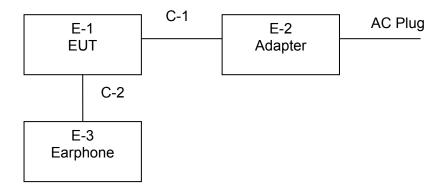


2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

Conducted 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	Pc smart	N/A	PTSGOB09-A	N/A	EUT
E-2	Adapter	N/A	SJ-0525-U	N/A	
E-3	Earphone	N/A	2688		

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	

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 <code>"Length_"</code> 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

Radia	Radiation Test equipment							
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period	
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	1 year	
1*	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year	
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year	
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year	
3*	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year	
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year	
5	Spectrum Analyzer	ADVANTEST		150900201	2015.06.07	2016.06.06	1 year	
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2015.07.06	2016.07.05	1 year	
6*	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year	
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year	
7*	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year	
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year	
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year	
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year	
10*	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year	
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year	
11*	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year	
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year	
12*	Test Cable	N/A	R-01	N/A	2014.07.06	2015.07.05	1 year	
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year	
13*	Test Cable	N/A	R-02	N/A	2014.07.06	2015.07.05	1 year	



Conc	duction Test equip	ment					
Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year
1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B (dBuV)		Ctondord
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
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 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support 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.



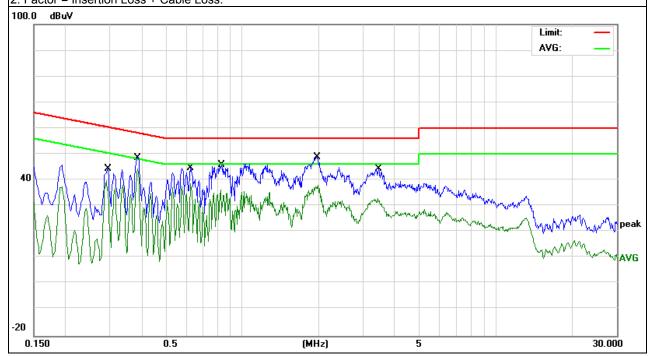
3.1.6 TEST RESULTS

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature:	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2900	34.56	9.73	44.29	60.52	-16.23	QP
0.2900	30.03	9.73	39.76	50.52	-10.76	AVG
0.3860	39.17	9.41	48.58	58.15	-9.57	QP
0.3860	34.82	9.41	44.23	48.15	-3.92	AVG
0.6260	34.89	9.77	44.66	56.00	-11.34	QP
0.6260	28.93	9.77	38.70	46.00	-7.30	AVG
0.8220	36.03	9.77	45.80	56.00	-10.20	QP
0.8220	26.51	9.77	36.28	46.00	-9.72	AVG
1.9700	39.23	9.65	48.88	56.00	-7.12	QP
1.9700	28.52	9.65	38.17	46.00	-7.83	AVG
3.4420	34.65	9.68	44.33	56.00	-11.67	QP
3.4420	23.30	9.68	32.98	46.00	-13.02	AVG

Remark

2. Factor = Insertion Loss + Cable Loss.



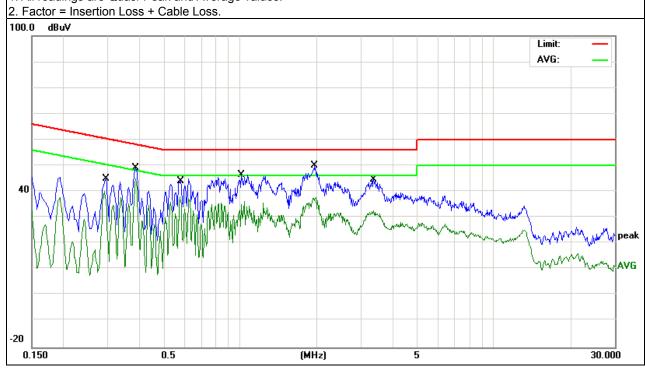
^{1.} All readings are Quasi-Peak and Average values.



EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test vollage .	DC 5.0V form Adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2900	35.28	9.61	44.89	60.52	-15.63	QP
0.2900	30.60	9.61	40.21	50.52	-10.31	AVG
0.3860	39.45	9.63	49.08	58.15	-9.07	QP
0.3860	35.42	9.63	45.05	48.15	-3.10	AVG
0.5780	35.23	9.66	44.89	56.00	-11.11	QP
0.5780	28.29	9.66	37.95	46.00	-8.05	AVG
1.0100	36.90	9.61	46.51	56.00	-9.49	QP
1.0100	26.76	9.61	36.37	46.00	-9.63	AVG
1.9620	40.43	9.54	49.97	56.00	-6.03	QP
1.9820	28.08	9.54	37.62	46.00	-8.38	AVG
3.3540	35.04	9.51	44.55	56.00	-11.45	QP
3.3540	23.03	9.51	32.54	46.00	-13.46	AVG

- 1. All readings are Quasi-Peak and Average values.

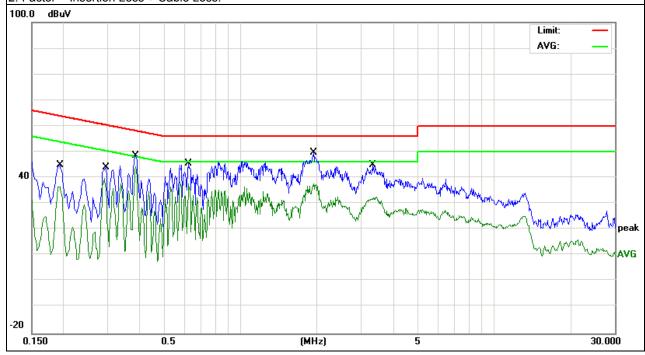




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
riest voltage .	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1940	35.35	9.60	44.95	63.86	-18.91	QP
0.1940	27.00	9.60	36.60	53.86	-17.26	AVG
0.2900	34.94	9.73	44.67	60.52	-15.85	QP
0.2900	30.09	9.73	39.82	50.52	-10.70	AVG
0.3860	39.21	9.41	48.62	58.15	-9.53	QP
0.3860	35.06	9.41	44.47	48.15	-3.68	AVG
0.6260	35.77	9.77	45.54	56.00	-10.46	QP
0.6260	27.93	9.77	37.70	46.00	-8.30	AVG
1.9460	40.16	9.65	49.81	56.00	-6.19	QP
1.9460	28.07	9.65	37.72	46.00	-8.28	AVG
3.3140	35.15	9.68	44.83	56.00	-11.17	QP
3.3140	23.06	9.68	32.74	46.00	-13.26	AVG

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

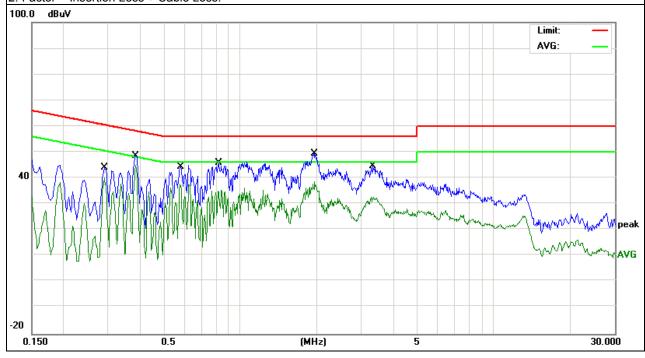




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
TAGE VANISANA	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2900	34.44	9.61	44.05	60.52	-16.47	QP
0.2900	30.44	9.61	40.05	50.52	-10.47	AVG
0.3860	38.87	9.63	48.50	58.15	-9.65	QP
0.3860	35.22	9.63	44.85	48.15	-3.30	AVG
0.5780	35.31	9.66	44.97	56.00	-11.03	QP
0.5780	28.06	9.66	37.72	46.00	-8.28	AVG
0.8180	36.22	9.63	45.85	56.00	-10.15	QP
0.8180	25.64	9.63	35.27	46.00	-10.73	AVG
1.9620	39.88	9.54	49.42	56.00	-6.58	QP
1.9620	29.15	9.54	38.69	46.00	-7.31	AVG
3.3300	35.08	9.51	44.59	56.00	-11.41	QP
3.3300	23.23	9.51	32.74	46.00	-13.26	AVG

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

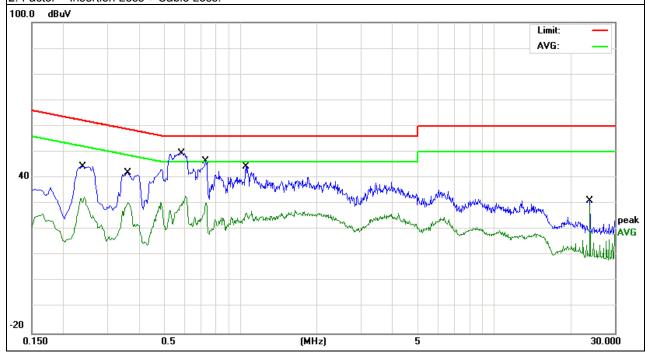




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LIEST VOITAGE :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2380	34.68	9.66	44.34	62.16	-17.82	QP
0.2380	23.02	9.66	32.68	52.16	-19.48	AVG
0.3580	32.55	9.52	42.07	58.77	-16.70	QP
0.3580	21.00	9.52	30.52	48.77	-18.25	AVG
0.5860	39.79	9.77	49.56	56.00	-6.44	QP
0.5860	23.27	9.77	33.04	46.00	-12.96	AVG
0.7300	36.71	9.77	46.48	56.00	-9.52	QP
0.7300	20.51	9.77	30.28	46.00	-15.72	AVG
1.0540	34.71	9.73	44.44	56.00	-11.56	QP
1.0540	17.55	9.73	27.28	46.00	-18.72	AVG
24.0020	21.32	9.93	31.25	60.00	-28.75	QP
24.0020	19.43	9.93	29.36	50.00	-20.64	AVG

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

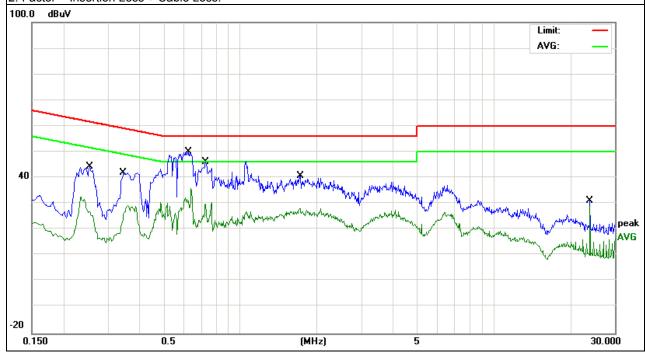




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
LIEST VOITAGE :	DC 5.0V form PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2540	34.71	9.61	44.32	61.62	-17.30	QP
0.2540	23.01	9.61	32.62	51.62	-19.00	AVG
0.3460	32.36	9.63	41.99	59.06	-17.07	QP
0.3460	19.77	9.63	29.40	49.06	-19.66	AVG
0.6260	40.43	9.65	50.08	56.00	-5.92	QP
0.6260	26.22	9.65	35.87	46.00	-10.13	AVG
0.7300	36.64	9.63	46.27	56.00	-9.73	QP
0.7300	20.89	9.63	30.52	46.00	-15.48	AVG
1.7180	31.19	9.56	40.75	56.00	-15.25	QP
1.7180	18.55	9.56	28.11	46.00	-17.89	AVG
24.0020	21.26	9.92	31.18	60.00	-28.82	QP
24.0020	19.16	9.92	29.08	50.00	-20.92	AVG

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

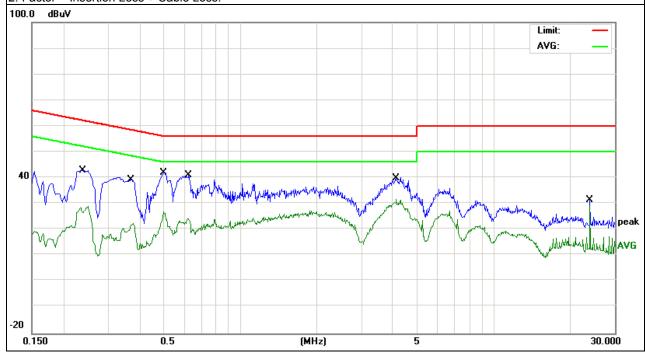




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Liest Voltage :	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2380	33.13	9.66	42.79	62.16	-19.37	QP
0.2380	19.45	9.66	29.11	52.16	-23.05	AVG
0.3700	29.84	9.47	39.31	58.50	-19.19	QP
0.3700	12.89	9.47	22.36	48.50	-26.14	AVG
0.4980	32.22	9.76	41.98	56.03	-14.05	QP
0.4980	17.20	9.76	26.96	46.03	-19.07	AVG
0.6260	31.14	9.77	40.91	56.00	-15.09	QP
0.6260	14.53	9.77	24.30	46.00	-21.70	AVG
4.1299	30.36	9.70	40.06	56.00	-15.94	QP
4.1299	22.02	9.70	31.72	46.00	-14.28	AVG
24.0020	21.63	9.93	31.56	60.00	-28.44	QP
24.0020	19.10	9.93	29.03	50.00	-20.97	AVG

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

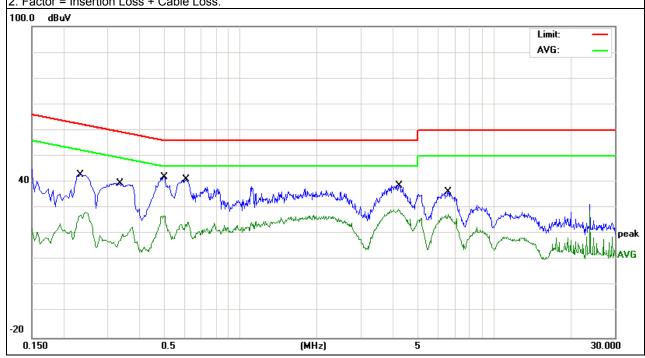




EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	N
Liest Voltage :	DC 5.0V from PC AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2340	33.26	9.61	42.87	62.30	-19.43	QP
0.2340	18.80	9.61	28.41	52.30	-23.89	AVG
0.3339	29.78	9.62	39.40	59.35	-19.95	QP
0.3339	13.11	9.62	22.73	49.35	-26.62	AVG
0.5020	32.25	9.68	41.93	56.00	-14.07	QP
0.5020	17.37	9.68	27.05	46.00	-18.95	AVG
0.6100	31.35	9.65	41.00	56.00	-15.00	QP
0.6100	14.96	9.65	24.61	46.00	-21.39	AVG
4.2019	29.12	9.51	38.63	56.00	-17.37	QP
4.2019	20.22	9.51	29.73	46.00	-16.27	AVG
6.6179	26.74	9.51	36.25	60.00	-23.75	QP
6.6179	17.96	9.51	27.47	50.00	-22.53	AVG

- All readings are Quasi-Peak and Average values.
 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.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower
500 – 1000	5000
108 – 500	2000
1.705 – 108	1000
Below 1.705	30
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)



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

- a. 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.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; 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.
- d. 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.
- e. 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.
- f. 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000	QP	120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Peak	1 MHz	10 Hz	

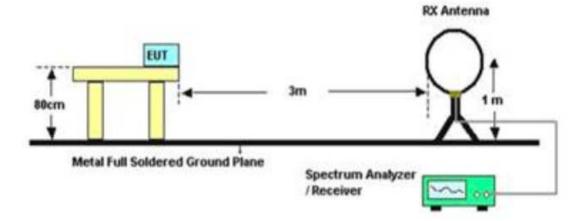
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

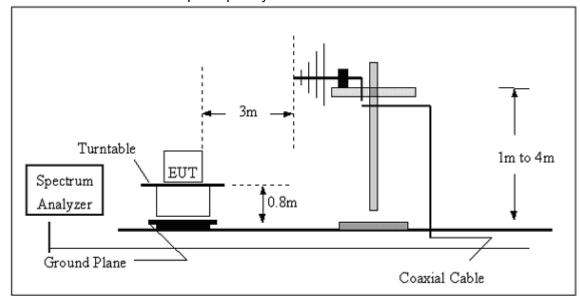


3.2.4 TEST SETUP

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

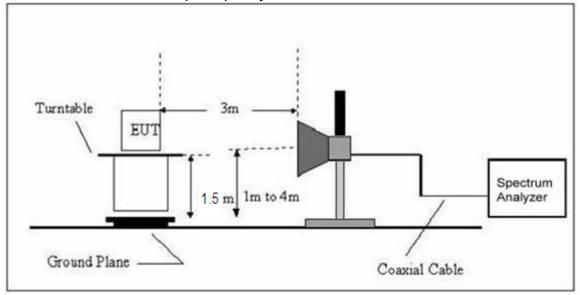


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	

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

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 =20 log (specific distance/test distance)(dB);

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



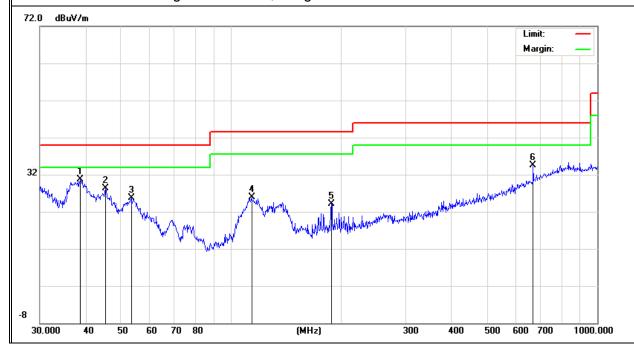
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Voltage :	DC 3.7V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	rtornart
V	38.7518	16.39	14.32	30.71	40.00	-9.29	QP
V	45.3755	16.40	11.84	28.24	40.00	-11.76	QP
V	53.3179	15.90	9.74	25.64	40.00	-14.36	QP
V	113.7143	15.22	10.75	25.97	43.50	-17.53	QP
V	187.7530	13.49	10.68	24.17	43.50	-19.33	QP
V	668.1423	10.67	23.91	34.58	46.00	-11.42	QP

Remark:

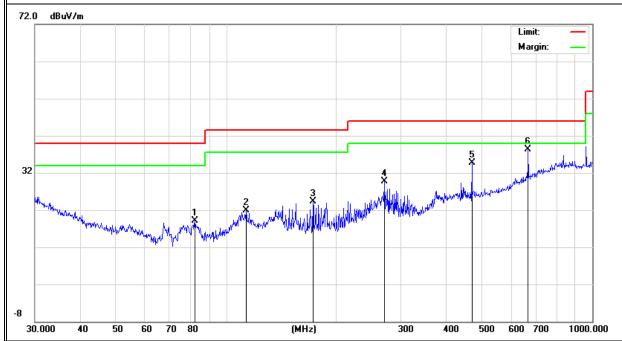
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
Н	82.0706	12.77	6.27	19.04	40.00	-20.96	QP
Н	113.3163	11.20	10.66	21.86	43.50	-21.64	QP
Н	172.5988	13.77	10.57	24.34	43.50	-19.16	QP
Н	270.3748	15.80	13.82	29.62	46.00	-16.38	QP
Н	468.8762	15.08	19.68	34.76	46.00	-11.24	QP
Н	668.1423	14.34	23.91	38.25	46.00	-7.75	QP

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Mode :	DC 3.7V		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	Commont
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	k	Comment
		Low Ch	annel (2402 MHz)-A	Above 1G			
4804.149	61.23	-3.64	57.59	74.00	-16.41	Pk	Vertical
4804.149	41.87	-3.64	38.23	54.00	-15.77	AV	Vertical
7206.267	58.96	-0.95	58.01	74.00	-15.99	Pk	Vertical
7206.267	40.15	-0.95	39.20	54.00	-14.80	AV	Vertical
4804.284	61.11	-3.64	57.47	74.00	-16.53	Pk	Horizontal
4804.284	43.66	-3.64	40.02	54.00	-13.98	AV	Horizontal
7206.356	59.89	-0.95	58.94	74.00	-15.06	Pk	Horizontal
7206.356	41.73	-0.95	40.78	54.00	-13.22	AV	Horizontal
		Mid Ch	annel (2441 MHz)-A	Above 1G		, ,	
4882.278	61.33	-3.68	57.65	74.00	-16.35	Pk	Vertical
4882.278	45.47	-3.68	41.79	54.00	-12.21	AV	Vertical
7323.577	62.52	-0.82	61.70	74.00	-12.30	Pk	Vertical
7323.577	42.77	-0.82	41.95	54.00	-12.05	AV	Vertical
4882.199	63.48	-3.68	59.80	74.00	-14.20	Pk	Horizontal
4882.199	44.91	-3.68	41.23	54.00	-12.77	AV	Horizontal
7323.203	59.67	-0.82	58.85	74.00	-15.15	Pk	Horizontal
7323.203	43.29	-0.82	42.47	54.00	-11.53	AV	Horizontal
		High Ch	annel (2480 MHz)-	Above 1G	T	1 1	
4960.101	63.7	-3.59	60.11	74.00	-13.89	Pk	Vertical
4960.101	44.08	-3.59	40.49	54.00	-13.51	AV	Vertical
7440.213	57.42	-0.68	56.74	74.00	-17.26	Pk	Vertical
7440.213	42.56	-0.68	41.88	54.00	-12.12	AV	Vertical
4960.267	62.35	-3.59	58.76	74.00	-15.24	Pk	Horizontal
4960.267	43.11	-3.59	39.52	54.00	-14.48	AV	Horizontal
7440.188	59.62	-0.68	58.94	74.00	-15.06	Pk	Horizontal
7440.188	42.17	-0.68	41.49	54.00	-12.51	AV	Horizontal

Note: Mode 1Mbps is the worst mode.



4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	on 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=100kHz	
VB	VBW ≥ RBW	
Detector Peak		
Trace Max Hold		
Sweep Time Auto		

4.1.1 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= 100kHz, VBW=100kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

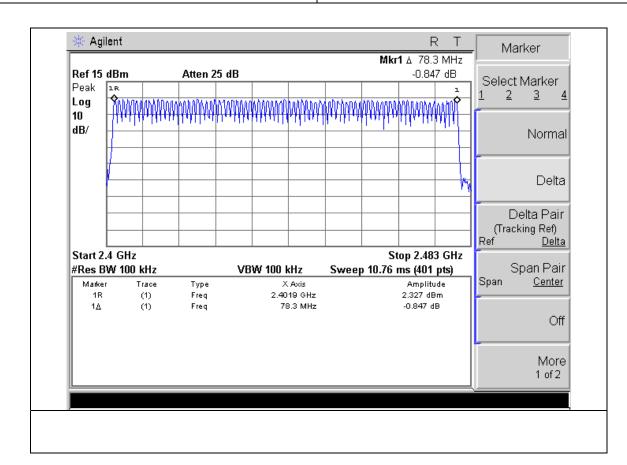
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode-GFSK	•	

Number of Hopping Channel 79





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

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. 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.



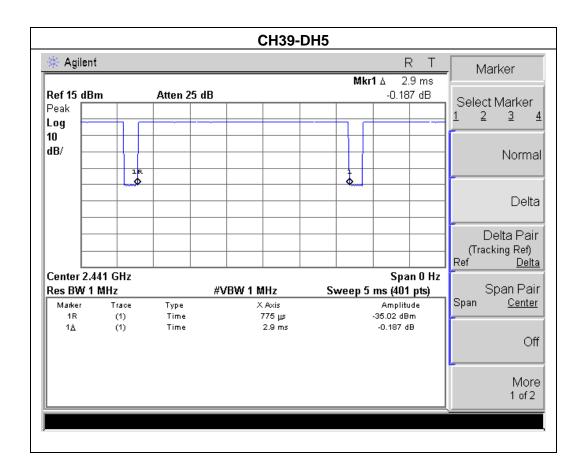
NTEK	Page 35 of 74	Rep	ort No.:NTEK-2015NT06272141F2	
5.1.3 TEST SETUR)			
EUT			SPECTRUM	
			ANALYZER	
5.1.4 EUT OPERA	TION CONDITIONS			
The EUT tested sys	stem was configured as the stater is specified in the follows during	ments of	2.4 Unless otherwise a special	
operating condition	is specified in the follows during	the testin	g.	



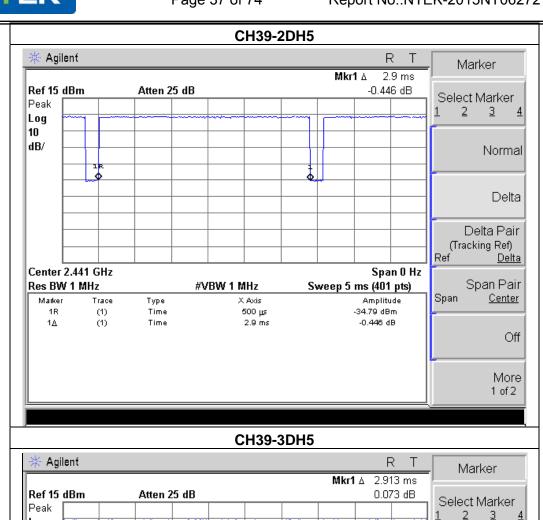
5.1.5 TEST RESULTS

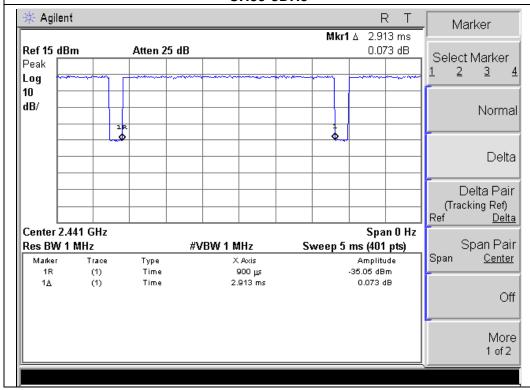
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH5	2441 MHz	2.90	0.31	0.4
2DH5	2441 MHz	2.90	0.31	0.4
3DH5	2441 MHz	2.91	0.31	0.4





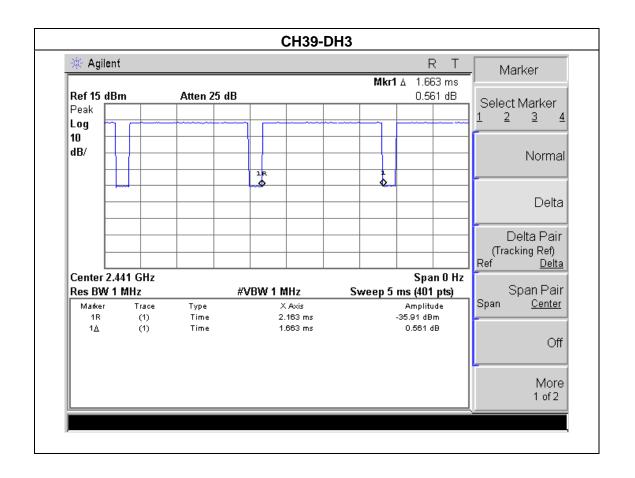




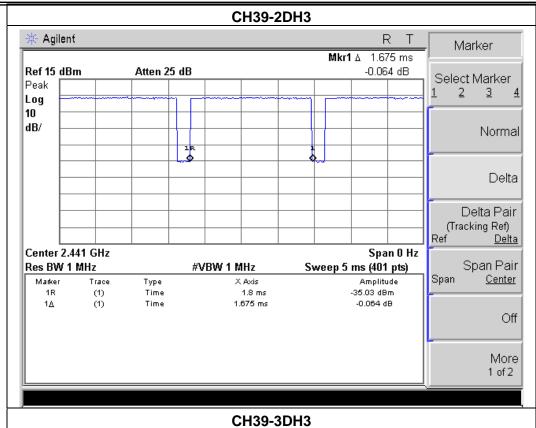


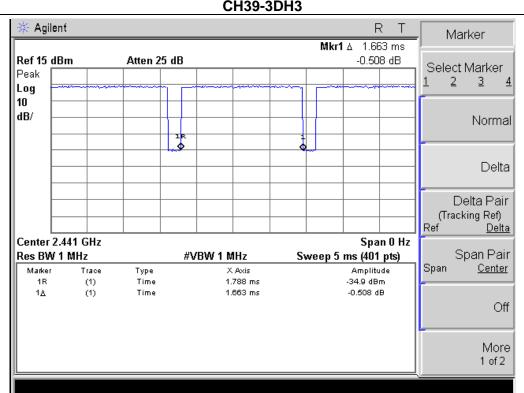
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH3	2441 MHz	1.66	0.27	0.4
2DH3	2441 MHz	1.68	0.27	0.4
3DH3	2441 MHz	1.66	0.27	0.4





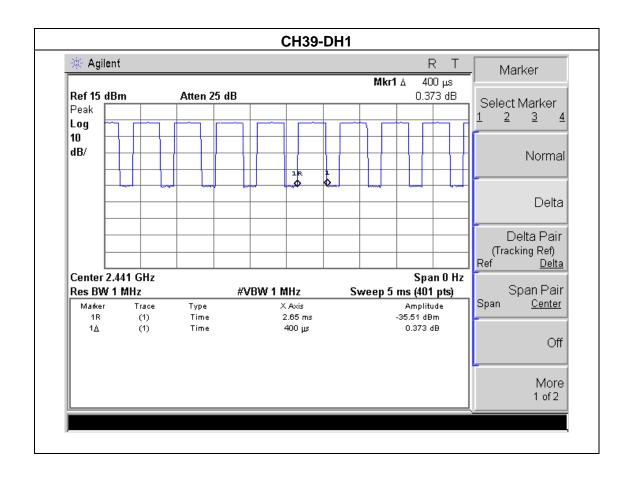




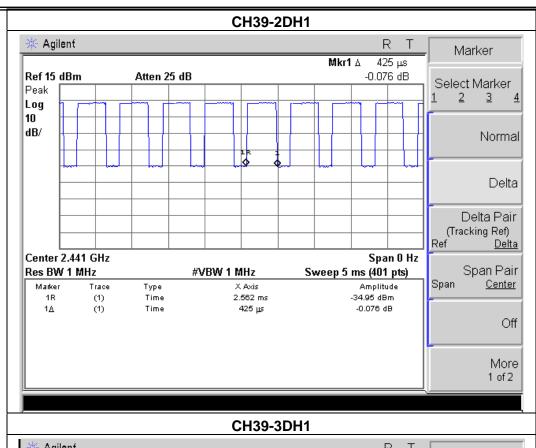


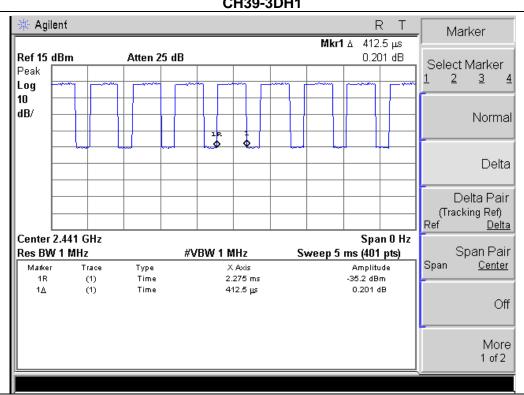
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1,2DH1,3DH1	•	

		Pulse	Dwell	Limits
Data Packet	Frequency	Duration	Time	Lillius
		(ms)	(s)	(s)
DH1	2441 MHz	0.40	0.13	0.4
2DH1	2441 MHz	0.43	0.14	0.4
3DH1	2441 MHz	0.41	0.13	0.4











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	30 kHz (Channel Separation)
VB	100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

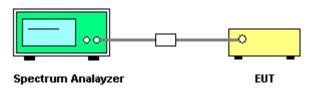
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 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.

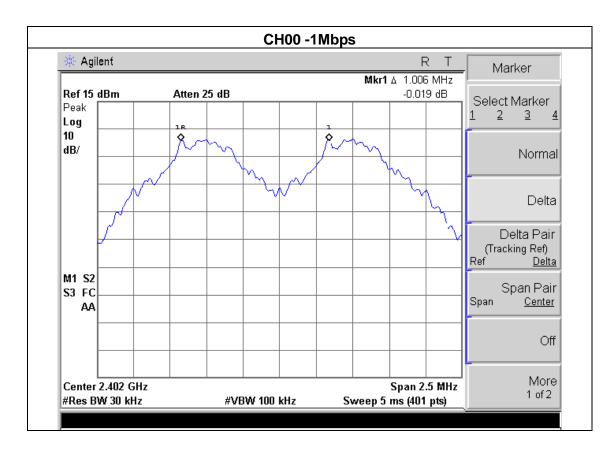


6.1.5 TEST RESULTS

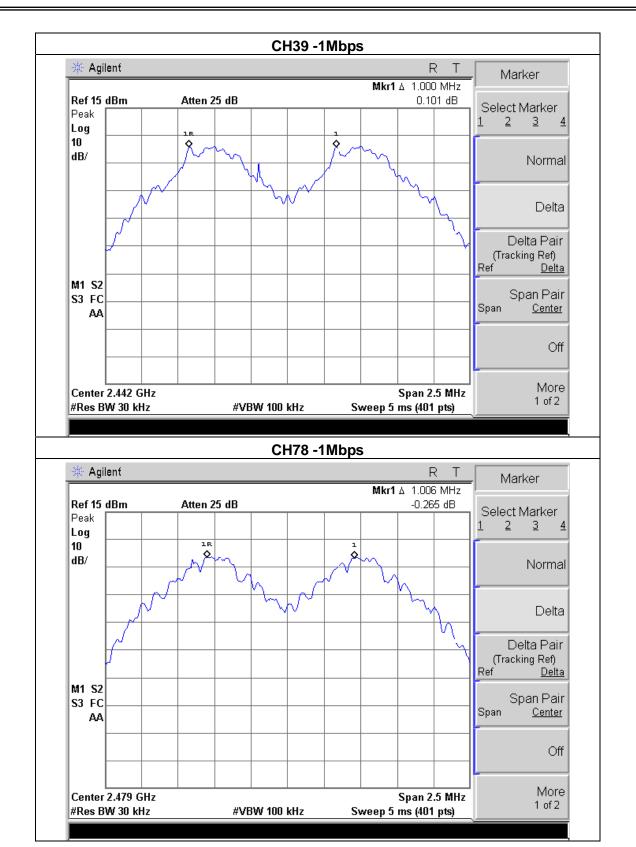
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.006	Complies
2441 MHz	1.000	Complies
2480 MHz	1.006	Complies

Ch. Separation Limits: > 20dB bandwidth





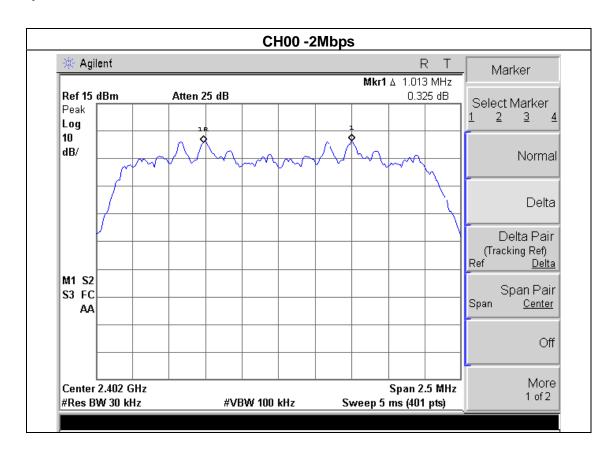




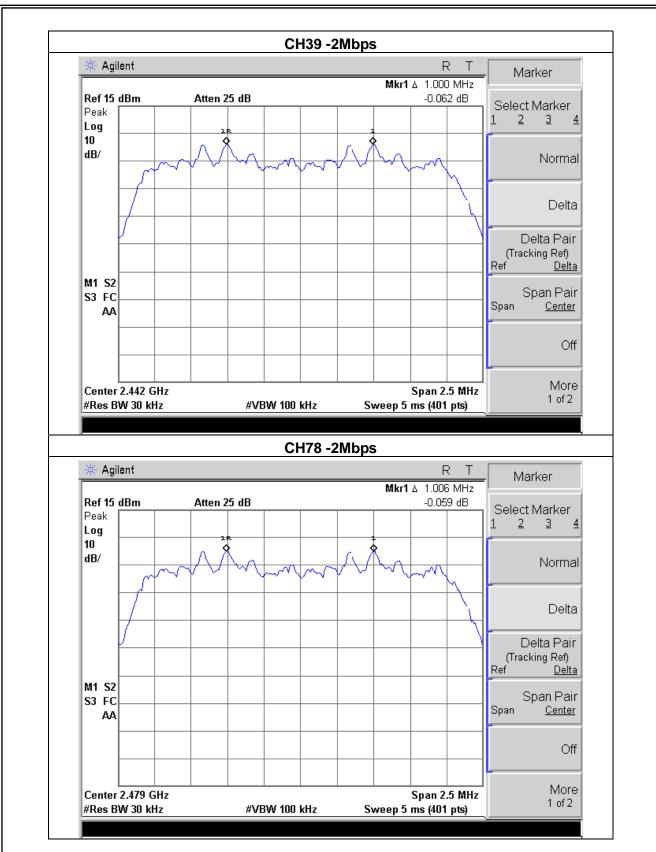
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.013	Complies
2441 MHz	1.000	Complies
2480 MHz	1.006	Complies

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





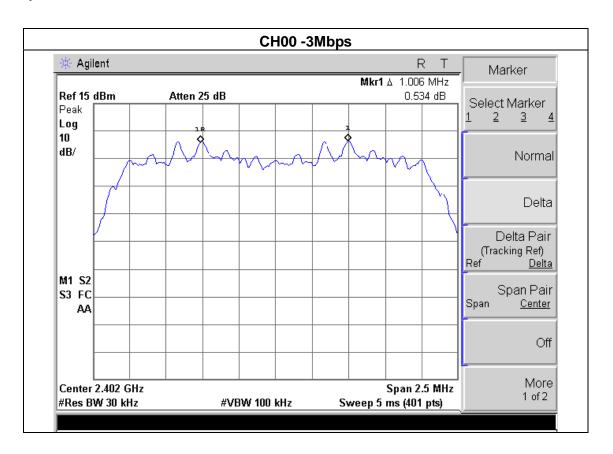




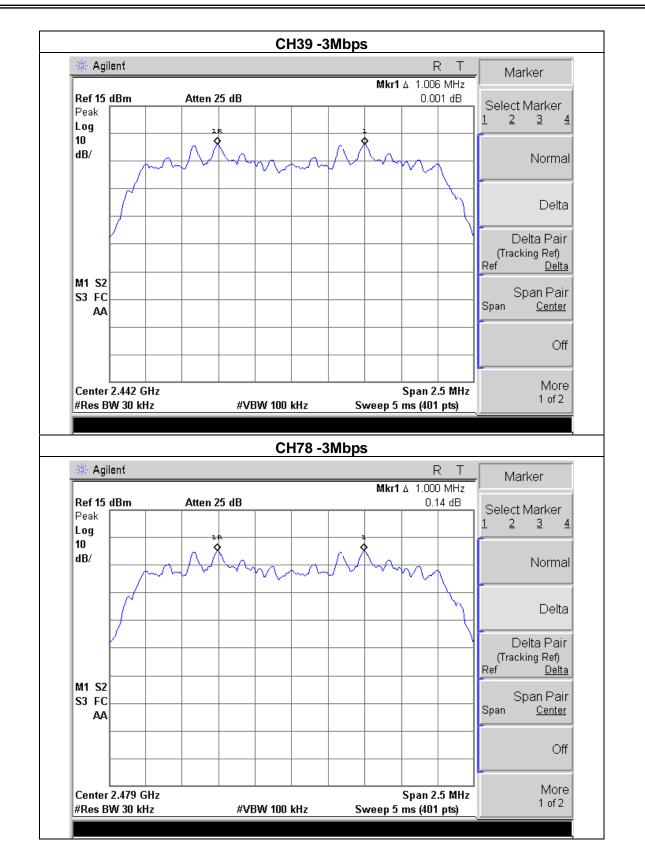
EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.006	Complies
2441 MHz	1.006	Complies
2480 MHz	1.000	Complies

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









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

- 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= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

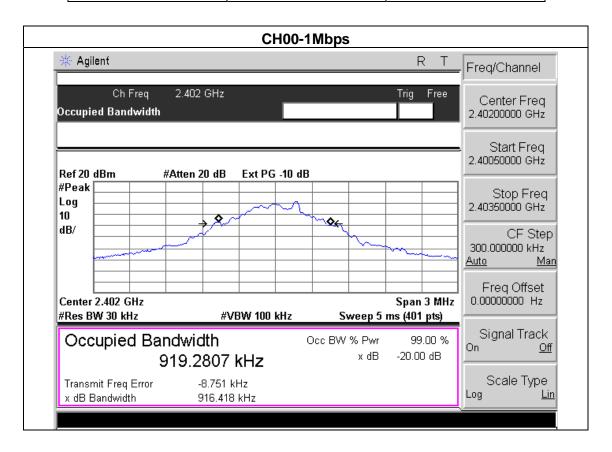
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



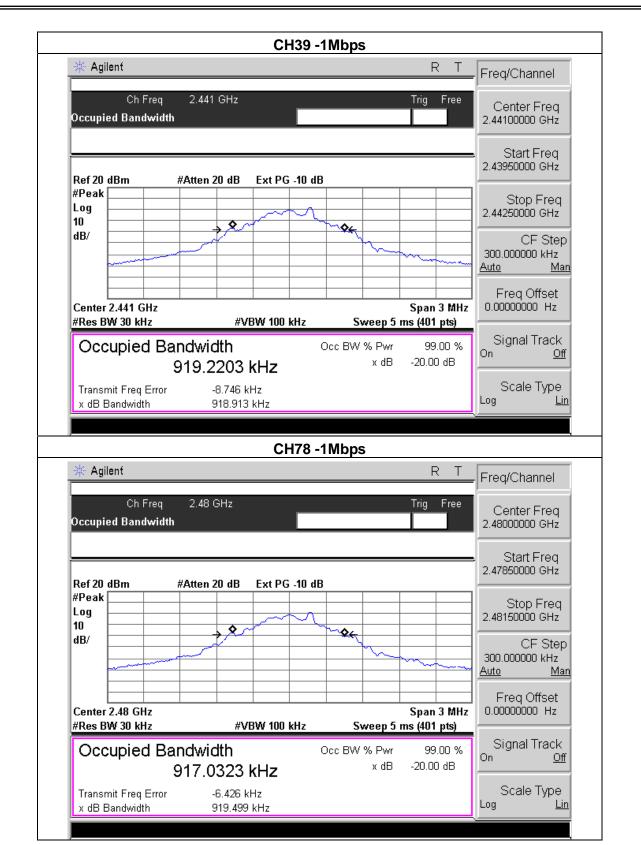
7.1.5 TEST RESULTS

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	916.418	PASS
2441 MHz	918.913	PASS
2480 MHz	919.499	PASS



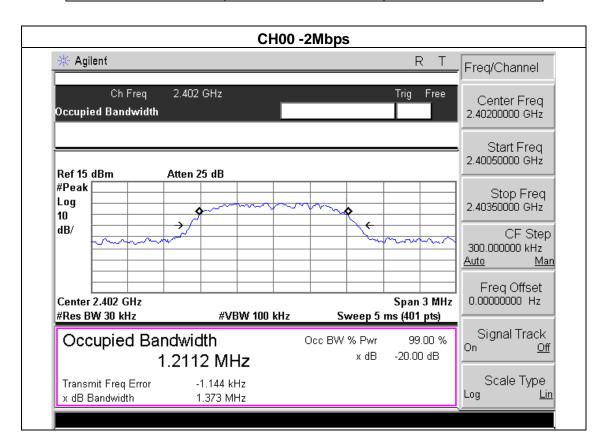




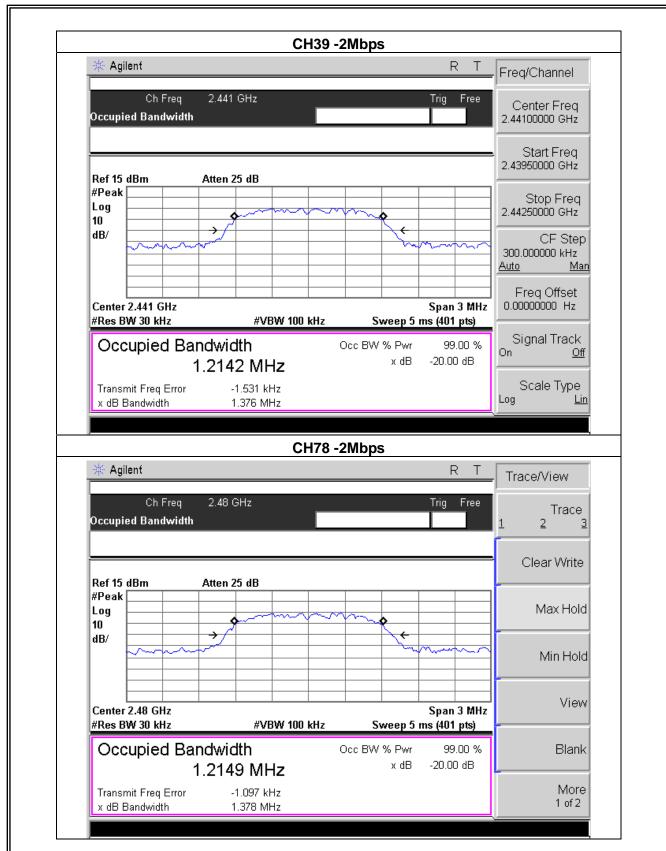


EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78 (2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.373	PASS
2441 MHz	1.376	PASS
2480 MHz	1.378	PASS







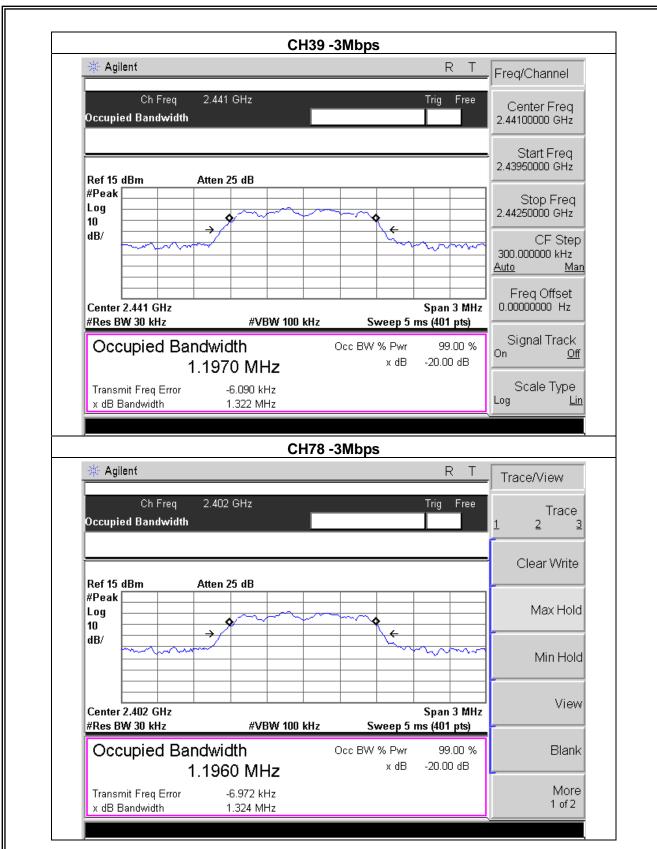


EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78 (3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.319	PASS
2441 MHz	1.322	PASS
2480 MHz	1.324	PASS









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

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

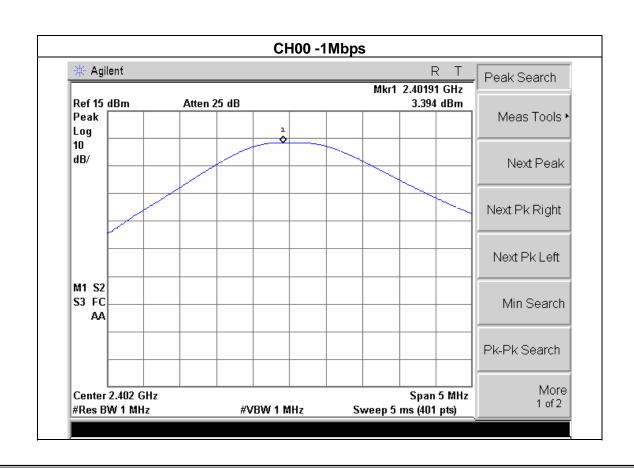
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



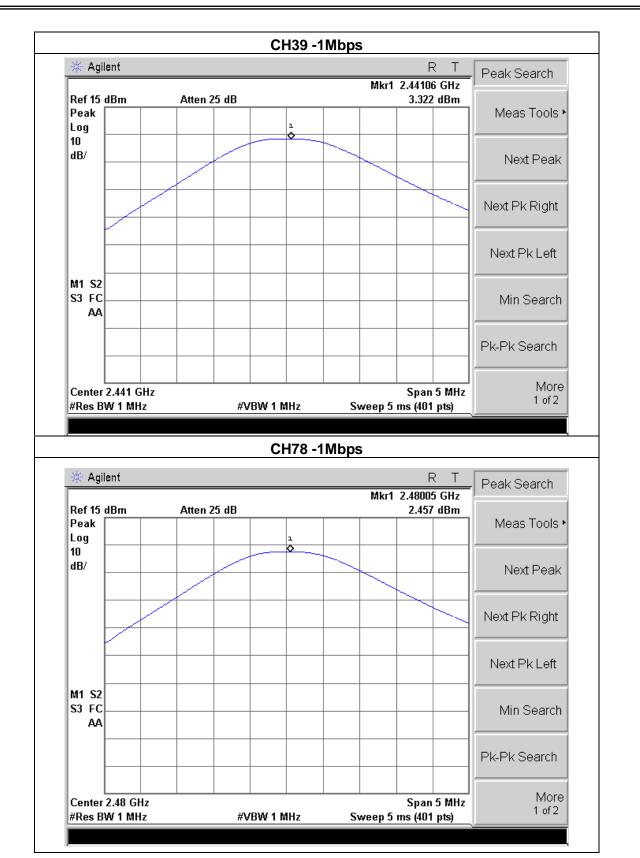
8.1.5 TEST RESULTS

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

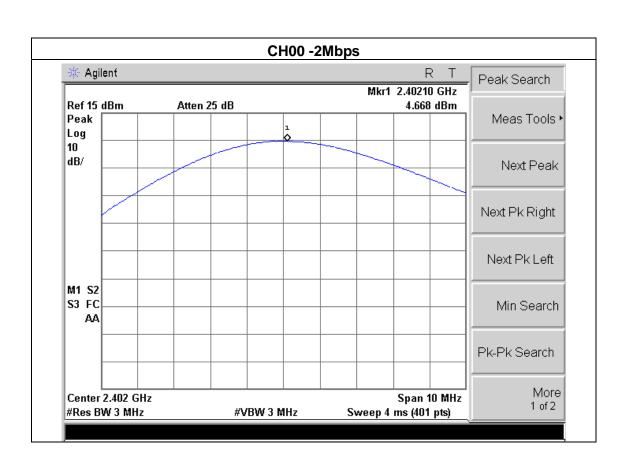
		1Mbps	
Test Channel	Frequency	Peak Output Power	LIMIT
icst onamici	(MHz)	(dBm)	(dBm)
CH00	2402	3.394	30
CH39	2441	3.322	30
CH78	2480	2.457	30
		2Mbps	
CH00	2402	4.668	20.96
CH39	2441	4.541	20.96
CH78	2480	3.727	20.96
3Mbps			
CH00	2402	4.838	20.96
CH39	2441	4.717	20.96
CH78	2480	3.793	20.96



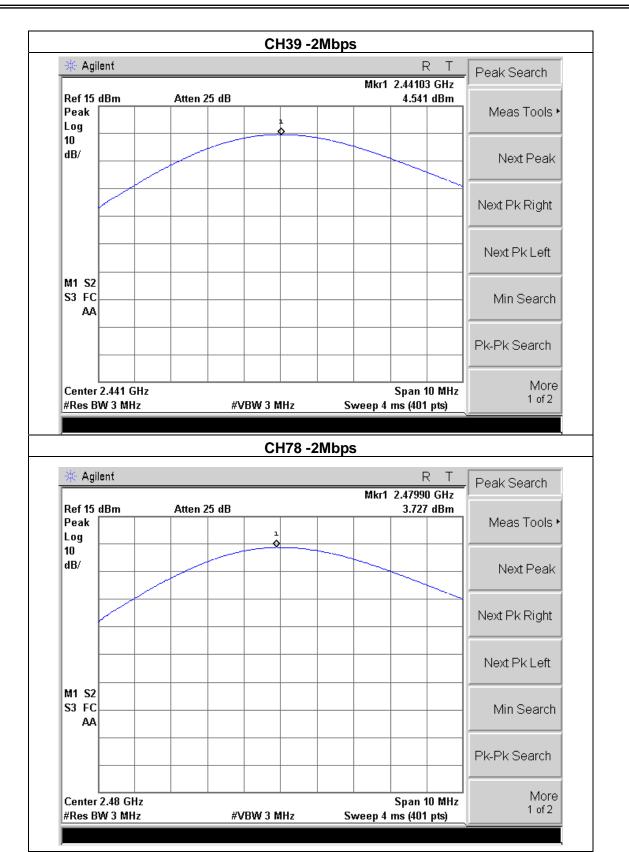




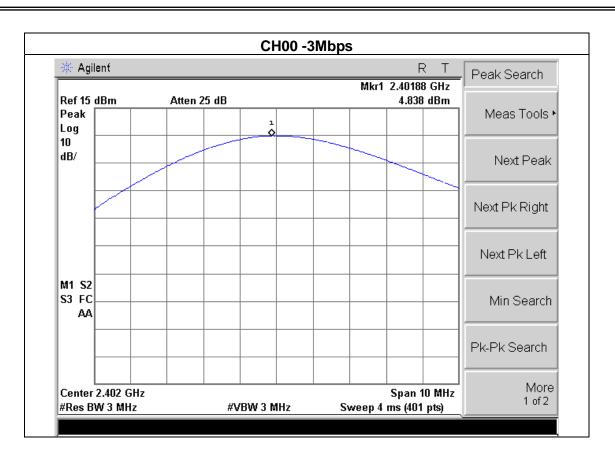




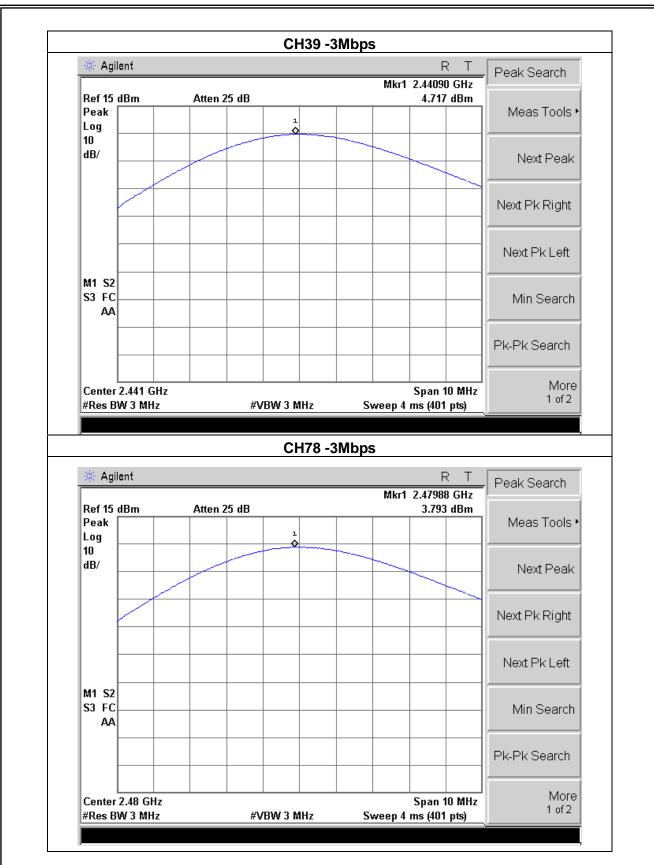














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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)).

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.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.3 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.



9.4 TEST RESULTS

EUT:	Pc smart	Model Name :	PTSGOB09-A
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH78 (1M/2M/3Mbps M	ode)	

Frequency Band MHz	Delta Peak to band emission (dBc)	>Limit (dBc)	Result		
	1Mbps Non-hopp	oing			
2400	47.81	Pass			
2483.5	57.33	Pass			
	2Mbps Non-hopping				
2400	48.43	20	Pass		
2483.5	83.5 58.28 20 F		Pass		
3Mbps Non-hopping					
2400	48.26	20	Pass		
2483.5	58.17 20 Pas		Pass		
	1Mbps hopping	g			
2400	46.43	20	Pass		
2483.5	53.41	53.41 20 Pass			
	2Mbps hopping	g			
2400	2400 51.26 20		Pass		
2483.5	56.18	20	Pass		
	3Mbps hopping	g			
2400	48.52	20	Pass		
2483.5	58.24	20	Pass		

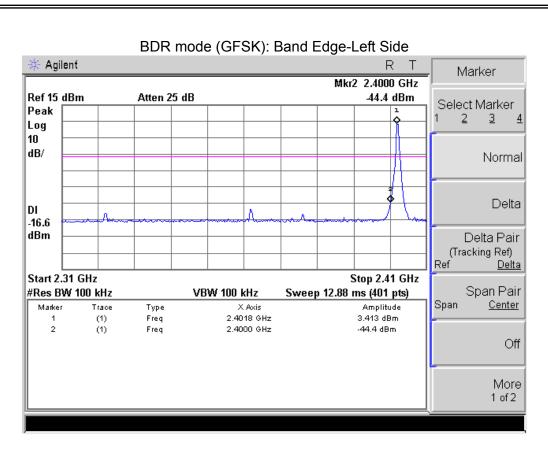


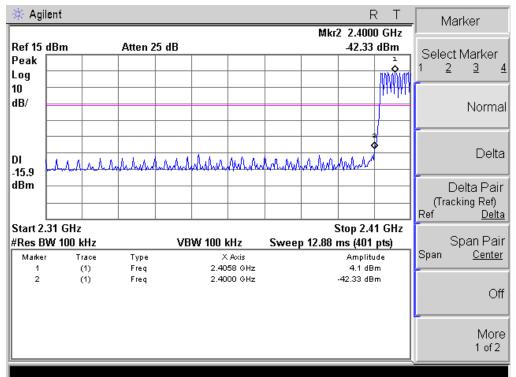
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBμV/m)	(dB)	Туре	Comment
		11	Mbps Non-hopp	ing			
2390	57.44	-13.06	44.38	74.00	-29.62	peak	Vertical
2390	56.91	-13.06	43.85	74.00	-30.15	peak	Horizontal
2483.5	56.12	-12.78	43.34	74.00	-30.66	peak	Vertical
2483.5	58.01	-12.78	45.23	74.00	-28.77	peak	Horizontal
			1Mbps hopping	g		1	
2390	58.69	-13.06	45.63	74.00	-28.37	peak	Vertical
2390	59.02	-13.06	45.96	74.00	-28.04	peak	Horizontal
2483.5	57.22	-12.78	44.44	74.00	-29.56	peak	Vertical
2483.5	58.49	-12.78	45.71	74.00	-28.29	peak	Horizontal
		21	Mbps Non-hopp	ing		1	
2390	58.34	-13.06	45.28	74.00	-28.72	peak	Vertical
2390	57.67	-13.06	44.61	74.00	-29.39	peak	Horizontal
2483.5	58.93	-12.78	46.15	74.00	-27.85	peak	Vertical
2483.5	57.08	-12.78	44.30	74.00	-29.70	peak	Horizontal
	2Mbps hopping				T		
2390	58.23	-13.06	45.17	74.00	-28.83	peak	Vertical
2390	57.89	-13.06	44.83	74.00	-29.17	peak	Horizontal
2483.5	58.6	-12.78	45.82	74.00	-28.18	peak	Vertical
2483.5	56.78	-12.78	44.00	74.00	-30.00	peak	Horizontal
	T	31	Mbps Non-hopp	ing	T	ı	1
2390	58	-13.06	44.94	74.00	-29.06	peak	Vertical
2390	58.41	-13.06	45.35	74.00	-28.65	peak	Horizontal
2483.5	57.84	-12.78	45.06	74.00	-28.94	peak	Vertical
2483.5	58.55	-12.78	45.77	74.00	-28.23	peak	Horizontal
	T	 	3Mbps hoppin	g	Г	T	
2390	59.45	-13.06	46.39	74.00	-27.61	peak	Vertical
2390	58.36	-13.06	45.30	74.00	-28.70	peak	Horizontal
2483.5	56.71	-12.78	43.93	74.00	-30.07	peak	Vertical
2483.5	58.99	-12.78	46.21	74.00	-27.79	peak	Horizontal

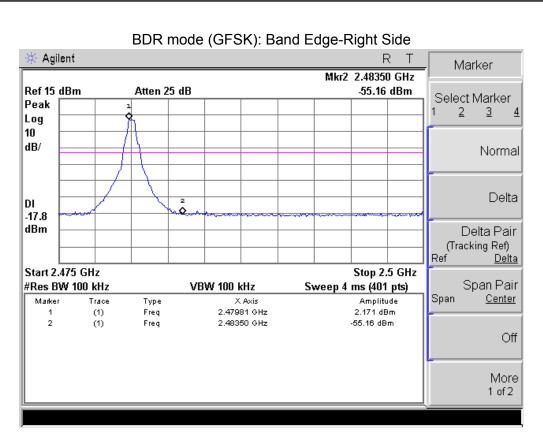
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

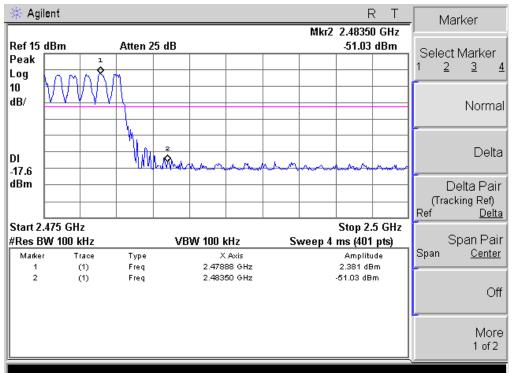




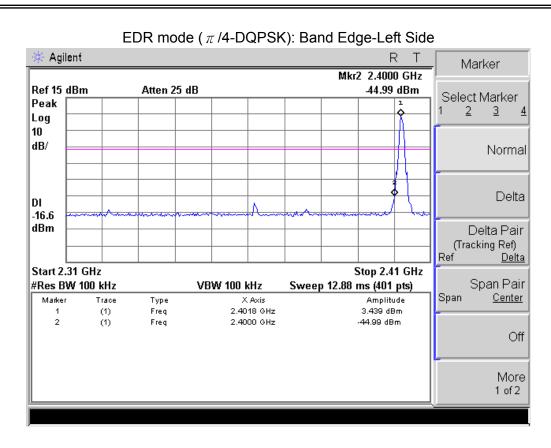


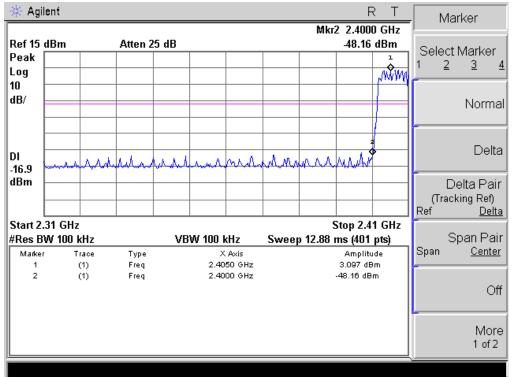




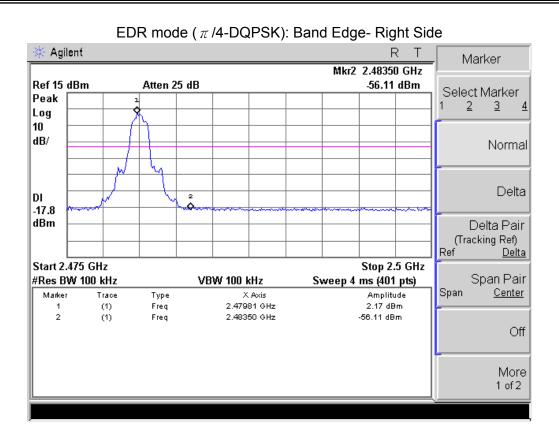


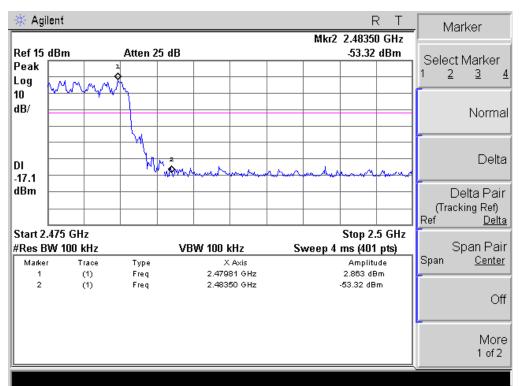




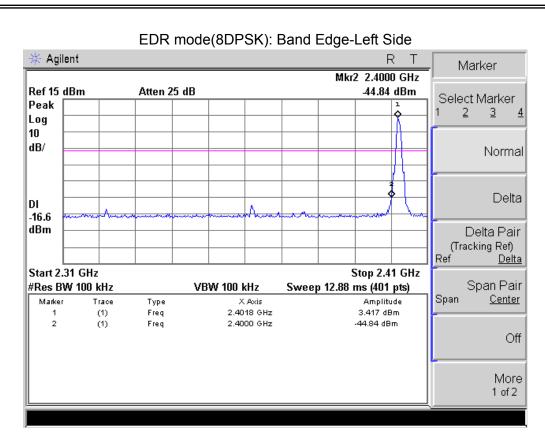


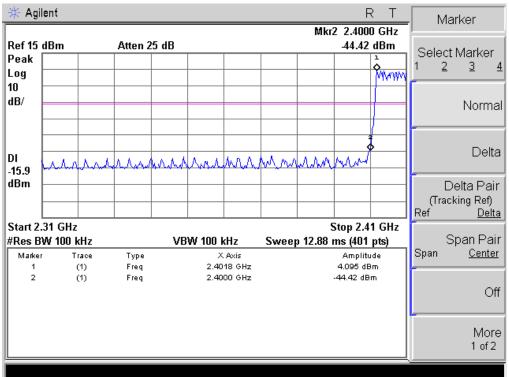




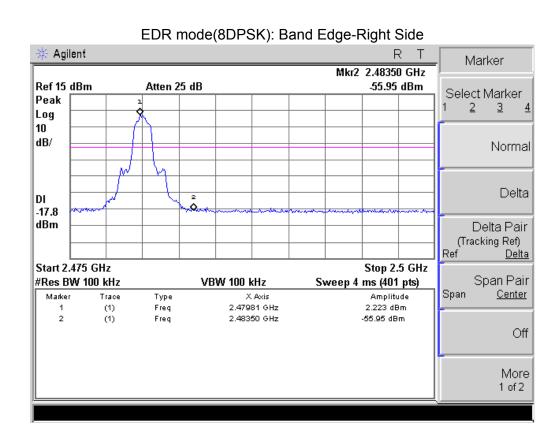


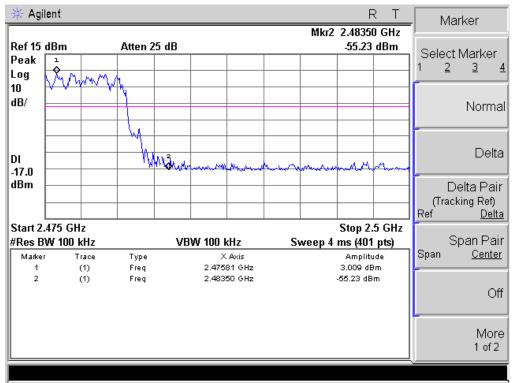












NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported



10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirer



11. EUT TEST PHOTO



