

FCC RADIO TEST REPORT-BT FCC ID: 2ADBD-PRIDE8

Product: HEXA Pride 8

Trade Name: HEXA

Model Name: Pride 8

Serial Model: Em-18880

Report No.: NTEK-2015NT1112537F2

Prepared for

Shen zhen Vinsdom Electronics Co.,Ltd.

4th Floor, Building 2 Huang Tian Heng Chang Rong High-Tech Industrial Park, BaoAn District, Shen Zhen, China.

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



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Applicant's name: Shen zhen Vinsdom Electronics Co.,Ltd.

Industrial Park, BaoAn District, Shen Zhen, China.

Manufacture's Name.....: Hallmark Global LTD dba HEXA

Address Unit 1, 196 Drumlin Circle, Vaughan, Ontario, Canada, L4K 3E5

Product description

Product name HEXA Pride 8

Model and/or type reference : Pride 8

Serial Model: Em-I8880

Standards FCC Part15.247: 01 Oct. 2015

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 26 Nov. 2015

Test Result..... Pass

Testing Engineer : Susan

(Susan Su)

Technical Manager :

(Brown Lu)

Authorized Signatory:

(Sam Chen)



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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 $\mathbf{y} \pm \mathbf{U}$, 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 $\mathbf{95}$ %.

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	HEXA Pride 8		
Trade Name	HEXA		
Model Name	Pride 8		
Serial Model	Em-I8880		
Model Difference	All the model are the same except the model name.	,	
	The EUT is a HEXA Pride	8	
	Operation Frequency:	2402~2480 MHz	
	Modulation Type:	BT(1Mbps): GFSK	
		BT EDR(2Mbps): π /4-DQPSK	
		BT EDR(3Mbps): 8-DPSK	
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps	
Product Description	Number Of Channel	79 CH	
	Antenna Designation: Please see Note 3.		
	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:JK050200-S04USA Input: 100-240V~,50/60 Hz,0.5A Output: 5V==-,2000mA		
Battery	DC 3.7V, 3500mAh		
Connecting I/O Port(s)	Please refer to the User's I	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



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



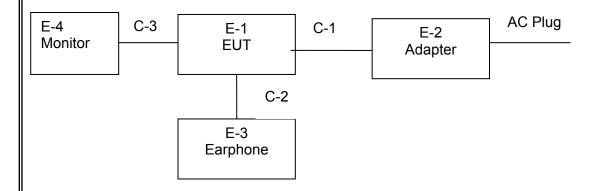
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

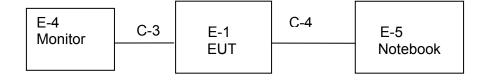
E-1 EUT

Conducted Emission Test

1)



2)





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	HEXA Pride 8	HEXA	Pride 8	N/A	EUT
E-2	ADAPTER	N/A	JK050200-S04USA	N/A	
E-3	Earphone	N/A	2688	N/A	
E-4	Monitor	SONY	KDL-24EX520	6450750	
E-5	Notebook	Lenove	Thinkpad Edge E430	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	0.8m	

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

Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibratio
	Equipment				calibration	until	n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2015.07.06	2016.07.05	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
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	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
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	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
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

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	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	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	1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

EDEOLIENCY (MH-)	Class A (dBuV)		Class B	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.

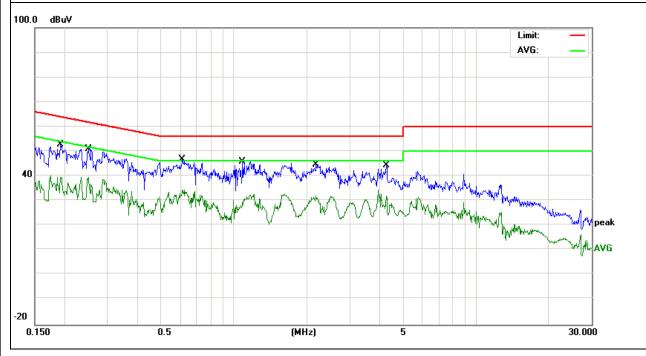


3.1.6 TEST RESULTS

EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage:	DC 5.0V from adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1912	43.34	9.46	52.80	63.98	-11.18	QP
0.1912	29.85	9.46	39.31	53.98	-14.67	AVG
0.2500	41.45	9.45	50.90	61.75	-10.85	QP
0.2500	28.17	9.45	37.62	51.75	-14.13	AVG
0.6107	37.36	9.44	46.80	56.00	-9.20	QP
0.6107	24.62	9.44	34.06	46.00	-11.94	AVG
1.0859	36.48	9.44	45.92	56.00	-10.08	QP
1.0859	18.88	9.44	28.32	46.00	-17.68	AVG
2.1859	35.13	9.47	44.60	56.00	-11.40	QP
2.1859	21.65	9.47	31.12	46.00	-14.88	AVG
4.2659	34.82	9.48	44.30	56.00	-11.70	QP
4.2659	22.71	9.48	32.19	46.00	-13.81	AVG

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

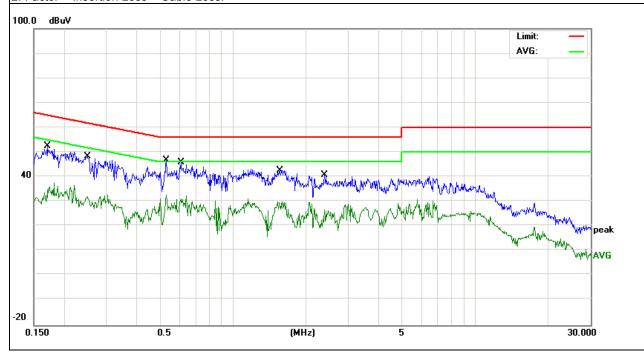




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE.	DC 5.0V from adapter AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1703	43.04	9.46	52.50	64.94	-12.44	QP
0.1703	25.30	9.46	34.76	54.94	-20.18	AVG
0.2500	38.69	9.45	48.14	61.75	-13.61	QP
0.2500	22.29	9.45	31.74	51.75	-20.01	AVG
0.5299	37.22	9.46	46.68	56.00	-9.32	QP
0.5299	20.65	9.46	30.11	46.00	-15.89	AVG
0.6097	36.54	9.44	45.98	56.00	-10.02	QP
0.6097	20.14	9.44	29.58	46.00	-16.42	AVG
1.5620	33.15	9.45	42.60	56.00	-13.40	QP
1.5620	18.52	9.45	27.97	46.00	-18.03	AVG
2.3940	31.44	9.46	40.90	56.00	-15.10	QP
2.3940	12.51	9.46	21.97	46.00	-24.03	AVG

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

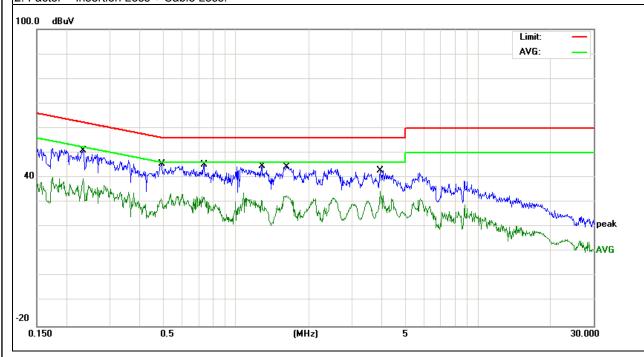




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LIEST VOITAGE.	DC 5.0V from adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2340	41.45	9.45	50.90	62.30	-11.40	QP
0.2340	29.96	9.45	39.41	52.30	-12.89	AVG
0.4939	36.02	9.46	45.48	56.10	-10.62	QP
0.4939	21.96	9.46	31.42	46.10	-14.68	AVG
0.7378	35.77	9.43	45.20	56.00	-10.80	QP
0.7378	22.62	9.43	32.05	46.00	-13.95	AVG
1.2820	35.14	9.45	44.59	56.00	-11.41	QP
1.2820	21.38	9.45	30.83	46.00	-15.17	AVG
1.6220	34.93	9.45	44.38	56.00	-11.62	QP
1.6220	22.91	9.45	32.36	46.00	-13.64	AVG
3.9580	33.53	9.47	43.00	56.00	-13.00	QP
3.9580	24.92	9.47	34.39	46.00	-11.61	AVG

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

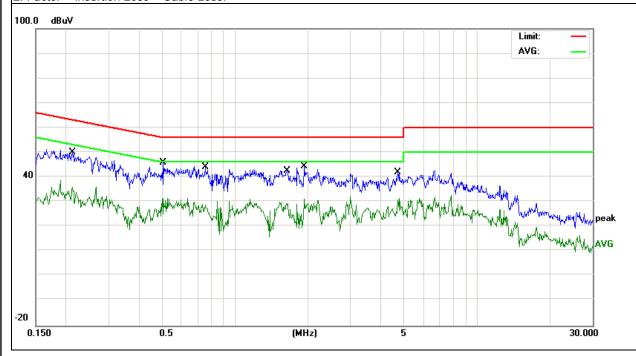




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE.	DC 5.0V from adapter AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2127	40.64	9.46	50.10	63.10	-13.00	QP
0.2127	24.68	9.46	34.14	53.10	-18.96	AVG
0.5060	36.44	9.46	45.90	56.00	-10.10	QP
0.5060	18.43	9.46	27.89	46.00	-18.11	AVG
0.7539	34.59	9.43	44.02	56.00	-11.98	QP
0.7539	18.22	9.43	27.65	46.00	-18.35	AVG
1.6374	33.15	9.45	42.60	56.00	-13.40	QP
1.6374	19.94	9.45	29.39	46.00	-16.61	AVG
1.9294	34.94	9.46	44.40	56.00	-11.60	QP
1.9294	13.97	9.46	23.43	46.00	-22.57	AVG
4.6977	32.62	9.48	42.10	56.00	-13.90	QP
4.6977	17.22	9.48	26.70	46.00	-19.30	AVG

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

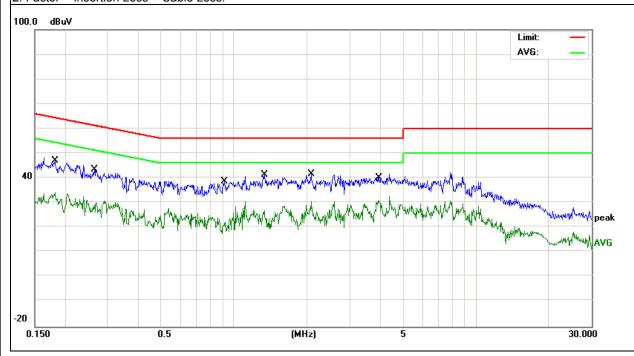




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Lest Moltage.	DC 5.0V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1819	37.64	9.46	47.10	64.39	-17.29	QP
0.1819	24.57	9.46	34.03	54.39	-20.36	AVG
0.2644	34.05	9.45	43.50	61.29	-17.79	QP
0.2644	20.63	9.45	30.08	51.29	-21.21	AVG
0.9100	29.36	9.44	38.80	56.00	-17.20	QP
0.9100	12.75	9.44	22.19	46.00	-23.81	AVG
1.3340	31.85	9.45	41.30	56.00	-14.70	QP
1.3340	17.45	9.45	26.90	46.00	-19.10	AVG
2.0819	32.24	9.46	41.70	56.00	-14.30	QP
2.0819	20.98	9.46	30.44	46.00	-15.56	AVG
3.9820	30.73	9.47	40.20	56.00	-15.80	QP
3.9820	21.49	9.47	30.96	46.00	-15.04	AVG

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

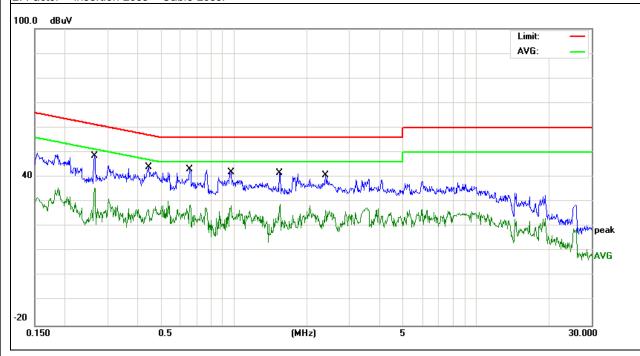




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Lest Moltage.	DC 5.0V from PC AC 120V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2644	39.05	9.45	48.50	61.29	-12.79	QP
0.2644	26.12	9.45	35.57	51.29	-15.72	AVG
0.4460	34.55	9.45	44.00	56.95	-12.95	QP
0.4460	17.39	9.45	26.84	46.95	-20.11	AVG
0.6542	33.66	9.44	43.10	56.00	-12.90	QP
0.6542	19.40	9.44	28.84	46.00	-17.16	AVG
0.9737	32.66	9.44	42.10	56.00	-13.90	QP
0.9737	18.93	9.44	28.37	46.00	-17.63	AVG
1.5420	32.35	9.45	41.80	56.00	-14.20	QP
1.5420	19.75	9.45	29.20	46.00	-16.80	AVG
2.3940	31.44	9.46	40.90	56.00	-15.10	QP
2.3940	16.96	9.46	26.42	46.00	-19.58	AVG

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

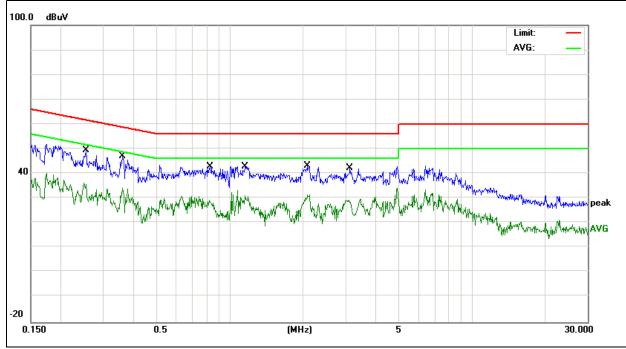




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
LEST MOITAGE.	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2540	40.05	9.45	49.50	61.62	-12.12	QP
0.2540	20.73	9.45	30.18	51.62	-21.44	AVG
0.3578	37.56	9.44	47.00	58.78	-11.78	QP
0.3578	21.88	9.44	31.32	48.78	-17.46	AVG
0.8296	33.38	9.43	42.81	56.00	-13.19	QP
0.8296	19.08	9.43	28.51	46.00	-17.49	AVG
1.1572	33.56	9.44	43.00	56.00	-13.00	QP
1.1572	20.09	9.44	29.53	46.00	-16.47	AVG
2.0979	33.57	9.46	43.03	56.00	-12.97	QP
2.0979	21.85	9.46	31.31	46.00	-14.69	AVG
3.1339	32.67	9.47	42.14	56.00	-13.86	QP
3.1339	18.97	9.47	28.44	46.00	-17.56	AVG

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

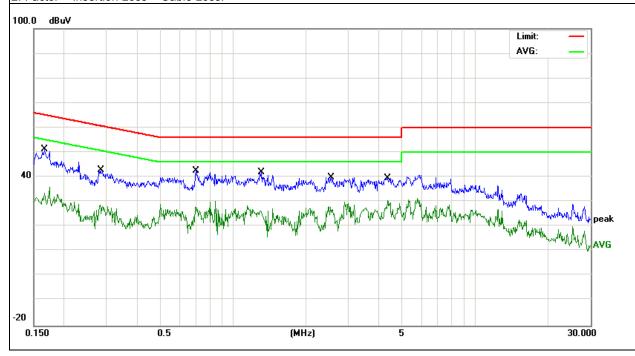




EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Hest Voltage:	DC 5.0V from PC AC 240V/60Hz	Test Mode:	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1660	41.74	9.46	51.20	65.15	-13.95	QP
0.1660	24.12	9.46	33.58	55.15	-21.57	AVG
0.2832	33.36	9.44	42.80	60.72	-17.92	QP
0.2832	19.27	9.44	28.71	50.72	-22.01	AVG
0.7016	33.17	9.43	42.60	56.00	-13.40	QP
0.7016	18.50	9.43	27.93	46.00	-18.07	AVG
1.3099	32.55	9.45	42.00	56.00	-14.00	QP
1.3099	16.68	9.45	26.13	46.00	-19.87	AVG
2.5459	30.53	9.47	40.00	56.00	-16.00	QP
2.5459	16.32	9.47	25.79	46.00	-20.21	AVG
4.3578	30.22	9.48	39.70	56.00	-16.30	QP
4.3578	20.98	9.48	30.46	46.00	-15.54	AVG

- 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.

Frequencies	Field Strength Measurement Dista	
(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)

EDECHENCY (MUz)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	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)

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



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. 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.

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

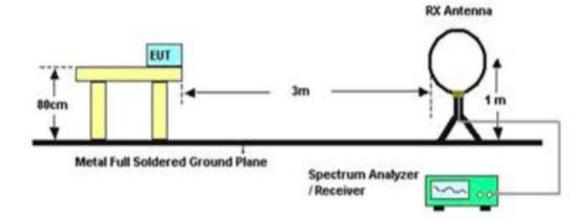
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

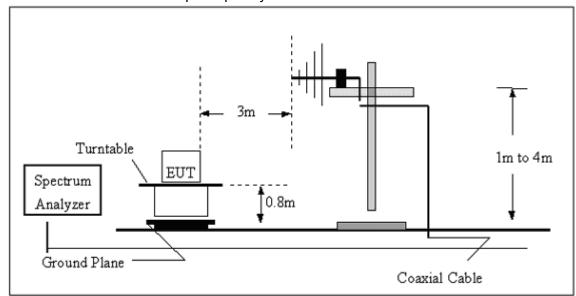


3.2.4 TEST SETUP

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

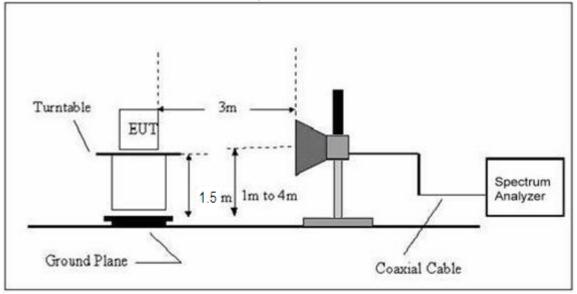


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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:	HEXA Pride 8	Model Name :	Pride 8
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.



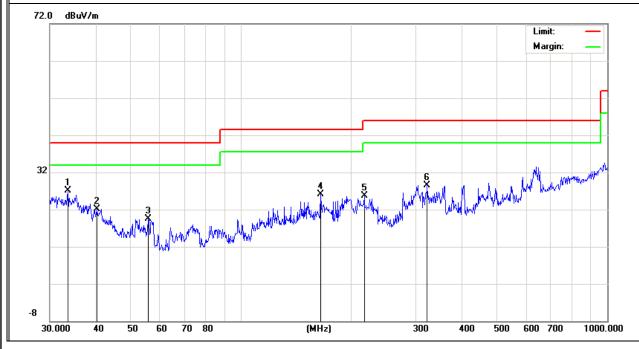
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX-3Mbps(High CH)
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)	Roman
V	33.6802	9.36	17.74	27.10	40.00	-12.90	QP
V	40.4172	7.78	14.32	22.10	40.00	-17.90	QP
V	55.8046	12.68	6.82	19.50	40.00	-20.50	QP
V	164.9071	14.43	11.74	26.17	43.50	-17.33	QP
V	216.7828	14.83	10.97	25.80	46.00	-20.20	QP
V	322.1886	15.29	13.31	28.60	46.00	-17.40	QP

Remark:

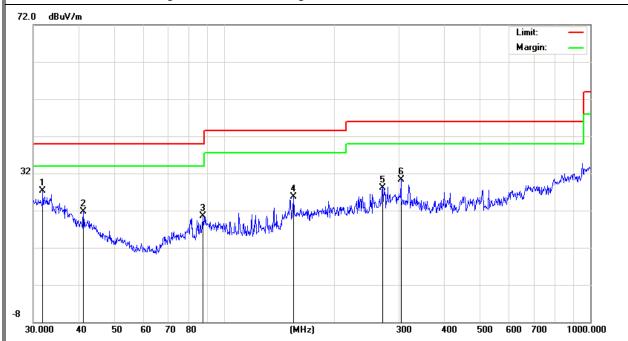
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit





Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Roman
Н	31.8427	8.39	18.91	27.30	40.00	-12.70	peak
Н	41.1319	7.86	13.94	21.80	40.00	-18.20	peak
Н	87.4175	11.10	9.50	20.60	40.00	-19.40	peak
Н	154.2786	13.95	11.85	25.80	43.50	-17.70	peak
Н	270.3747	16.50	11.61	28.11	46.00	-17.89	peak
Н	303.5437	17.60	12.74	30.34	46.00	-15.66	peak

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





3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010hPa	Test Mode:	TX
Test Voltage:	DC 3.7V		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remar	0
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	k	Comment
Low Channel (2402 MHz)-Above 1G							
4804.132	58.25	-3.64	61.89	74.00	-12.11	Pk	Vertical
4804.132	42.51	-3.64	46.15	54.00	-7.85	AV	Vertical
7205.921	53.42	-0.95	54.37	74.00	-19.63	Pk	Vertical
7205.921	38.46	-0.95	39.41	54.00	-14.59	AV	Vertical
4804.265	60.62	-3.64	64.26	74.00	-9.74	Pk	Horizontal
4804.265	42.46	-3.64	46.10	54.00	-7.90	AV	Horizontal
7206.122	55.11	-0.95	56.06	74.00	-17.94	Pk	Horizontal
7206.122	38.38	-0.95	39.33	54.00	-14.67	AV	Horizontal
		Mid Cha	annel (2441 MHz)-A	bove 1G			
4882.125	60.28	-3.68	63.96	74.00	-10.04	Pk	Vertical
4882.125	41.74	-3.68	45.42	54.00	-8.58	AV	Vertical
7323.252	57.76	-0.82	58.58	74.00	-15.42	Pk	Vertical
7323.252	42.51	-0.82	43.33	54.00	-10.67	AV	Vertical
4882.251	60.23	-3.68	63.91	74.00	-10.09	Pk	Horizontal
4882.251	41.41	-3.68	45.09	54.00	-8.91	AV	Horizontal
7323.121	57.61	-0.82	58.43	74.00	-15.57	Pk	Horizontal
7323.121	41.81	-0.82	42.63	54.00	-11.37	AV	Horizontal
		High Ch	annel (2480 MHz)-	Above 1G			
4960.100	60.14	-3.59	63.73	74.00	-10.27	Pk	Vertical
4960.100	43.59	-3.59	47.18	54.00	-6.82	AV	Vertical
7440.574	54.92	-0.68	55.60	74.00	-18.40	Pk	Vertical
7440.574	39.14	-0.68	39.82	54.00	-14.18	AV	Vertical
4960.210	59.26	-3.59	62.85	74.00	-11.15	Pk	Horizontal
4960.210	41.48	-3.59	45.07	54.00	-8.93	AV	Horizontal
7440.516	54.87	-0.68	55.55	74.00	-18.45	Pk	Horizontal
7440.516	38.95	-0.68	39.63	54.00	-14.37	AV	Horizontal

Note: Mode 3Mbps is the worst mode.



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=100kHz	
VB	VBW ≥ RBW	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

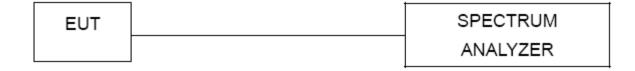
4.1.1 TEST PROCEDURE

- 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

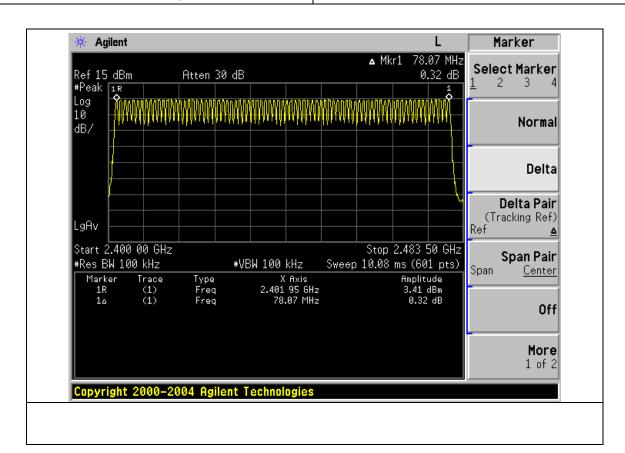
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



4.1.5 TEST RESULTS

EUT:	HEXA Pride 8	Model Name :	Pride 8
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.

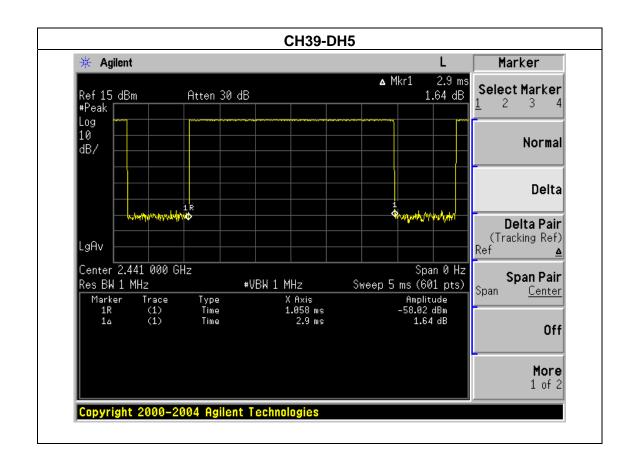
NTEK	Page 34 of 73	Report No.:NTEK-2015NT1112537F2
5.1.3 TEST SETU	<u> </u>	
	I	1
EUT		SPECTRUM ANALYZER
		7 31 37 32 1 22 1 3
	TION CONDITIONS	
The EUT tested system operating condition	stem was configured as the statements o is specified in the follows during the testi	of 2.4 Unless otherwise a special ing.



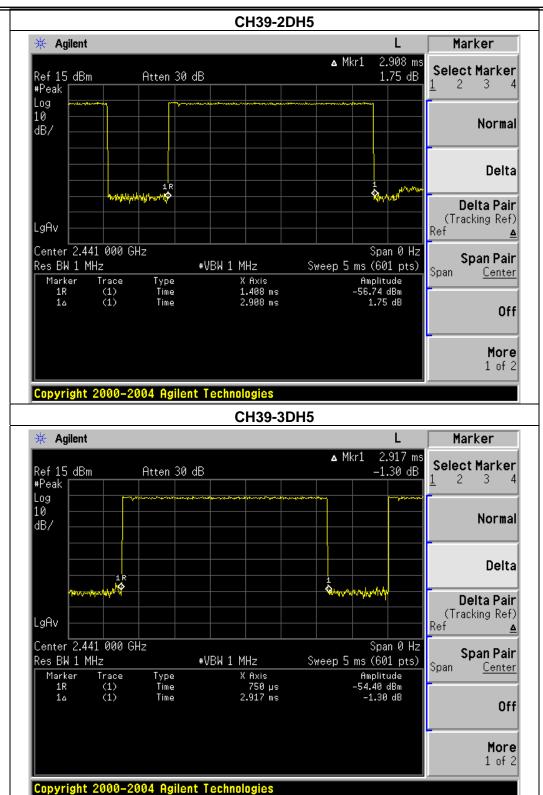
5.1.5 TEST RESULTS

EUT:	HEXA Pride 8	Model Name:	Pride 8
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	2.91	0.31	0.4
3DH5	2441 MHz	2.92	0.31	0.4



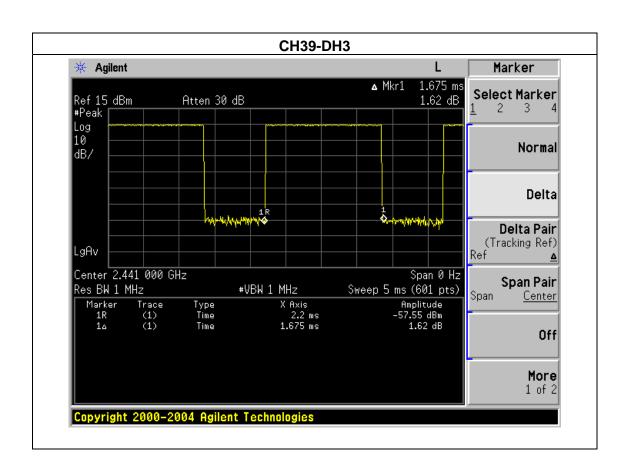




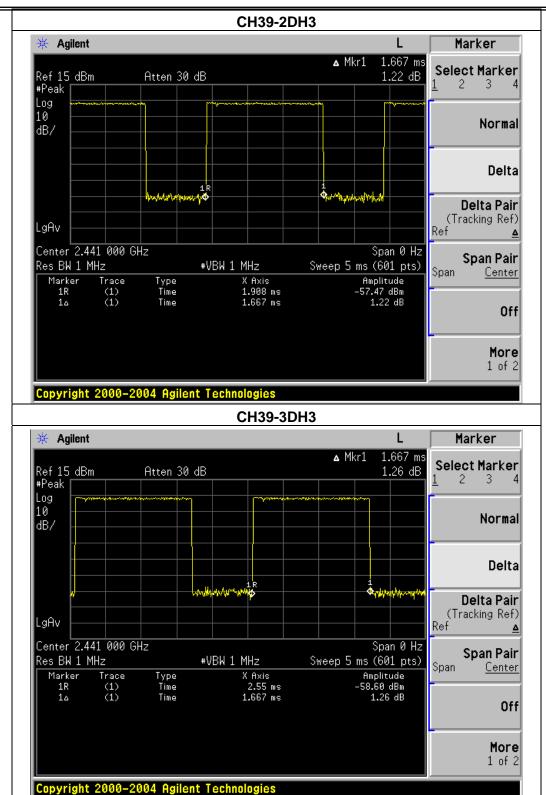


EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH39-DH3,2DH3,3DH3		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH3	2441 MHz	1.68	0.27	0.4
2DH3	2441 MHz	1.67	0.27	0.4
3DH3	2441 MHz	1.67	0.27	0.4



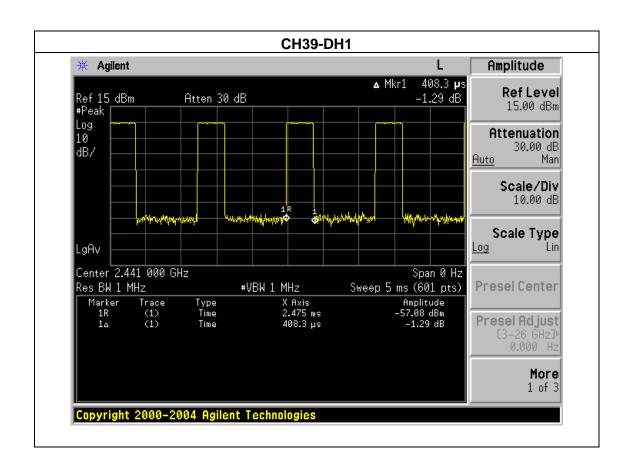




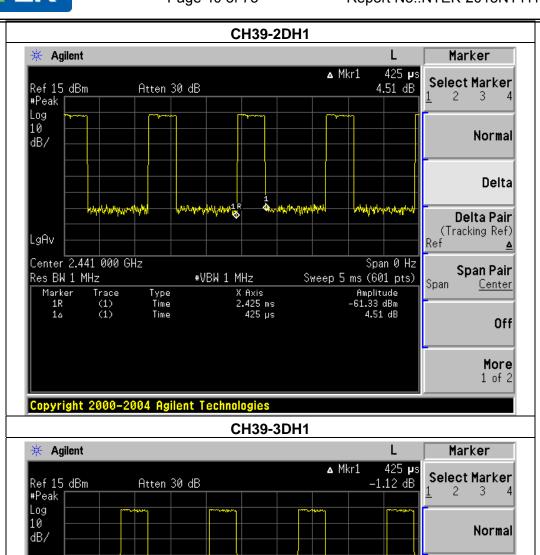


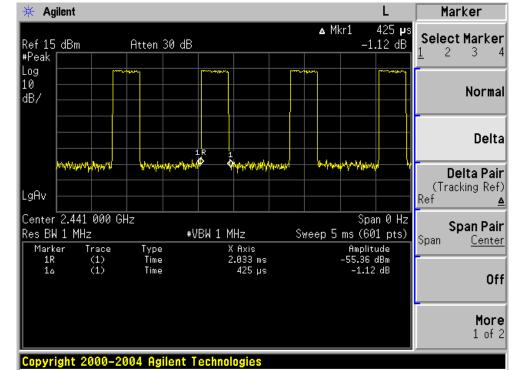
EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH39-DH1,2DH1,3DH1		

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

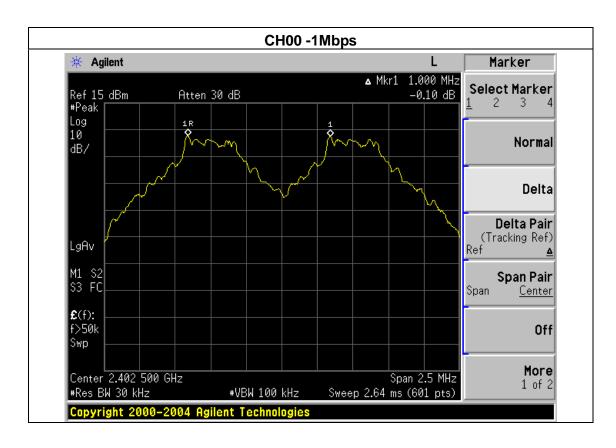


6.1.5 TEST RESULTS

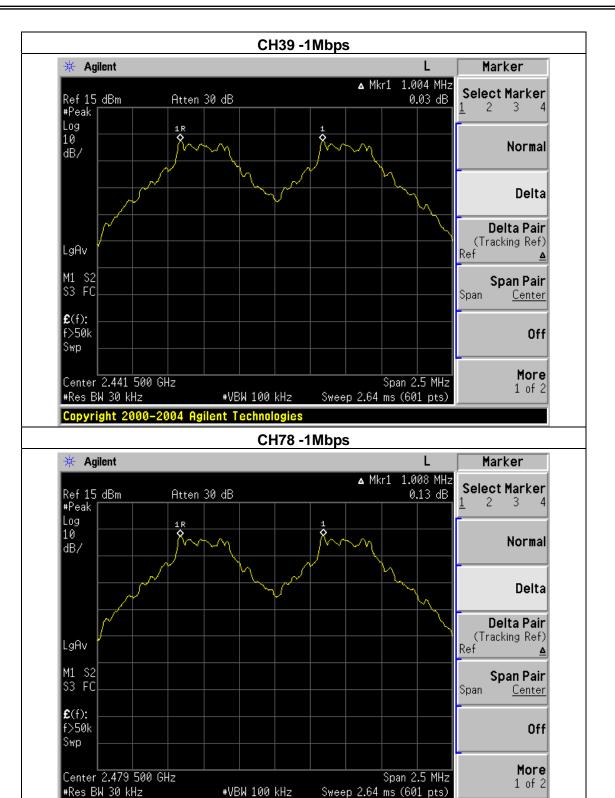
EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.004	Complies
2480 MHz	1.008	Complies

Ch. Separation Limits: > 20dB bandwidth





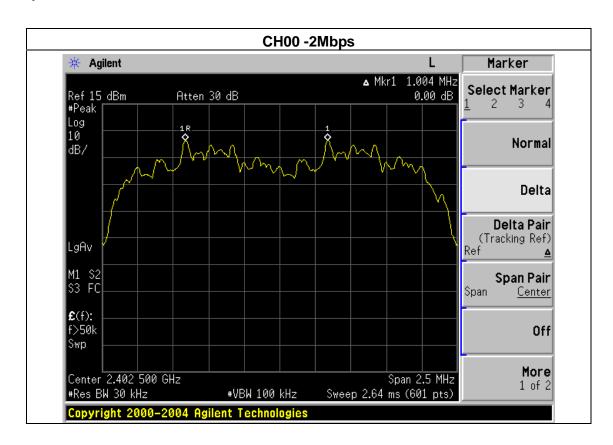




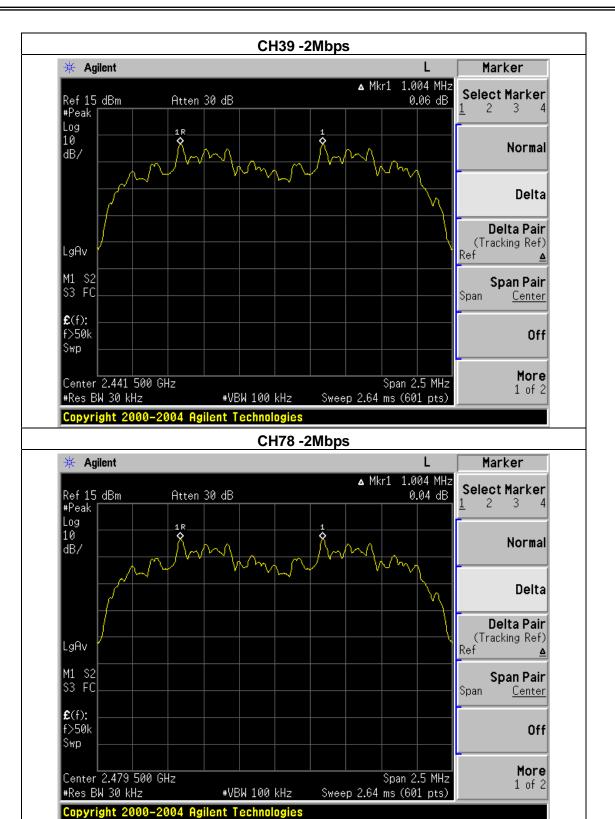
EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH39 /CH78 (2Mbps M	ode)	

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.004	Complies
2480 MHz	1.004	Complies

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





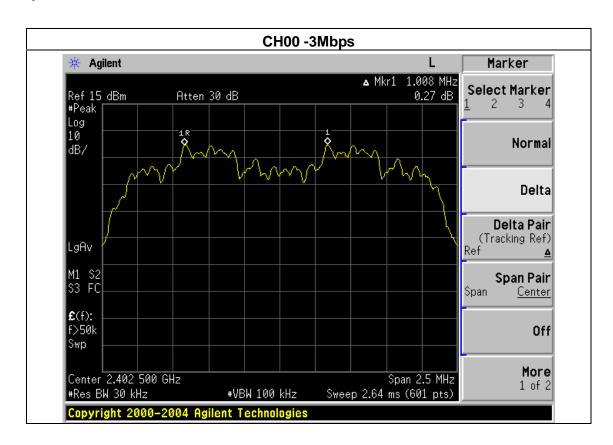




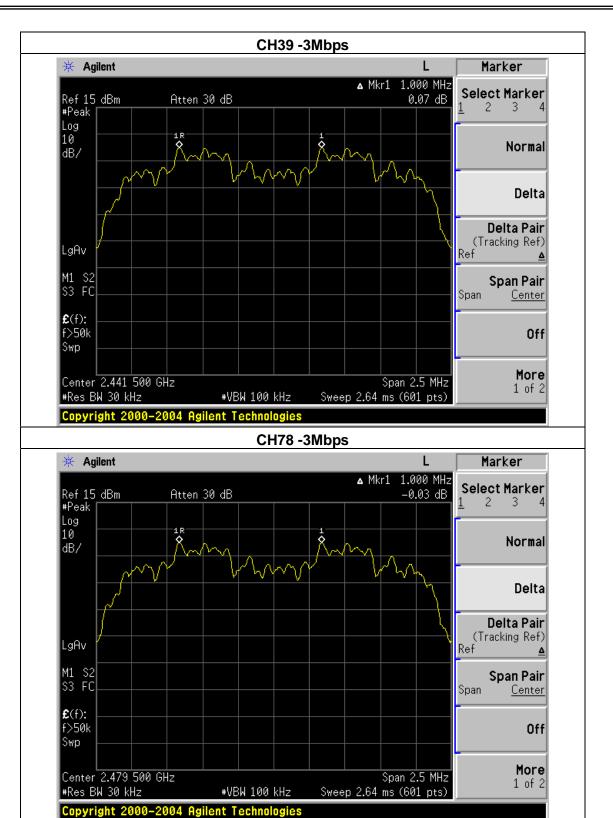
EUT:	HEXA Pride 8	Model Name:	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.008	Complies
2441 MHz	1.000	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

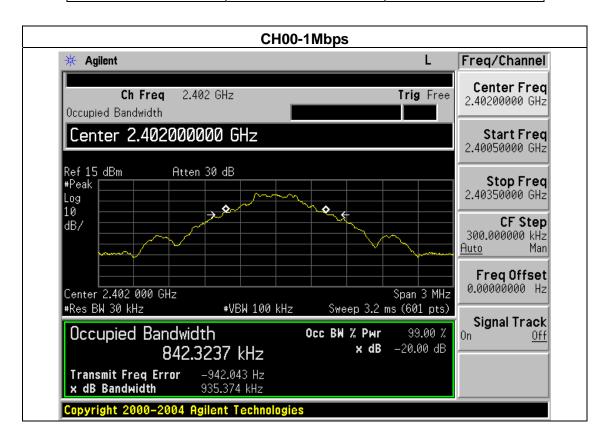
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



7.1.5 TEST RESULTS

EUT:	HEXA Pride 8	Model Name :	Pride 8
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	935.374	PASS
2441 MHz	947.626	PASS
2480 MHz	933.270	PASS



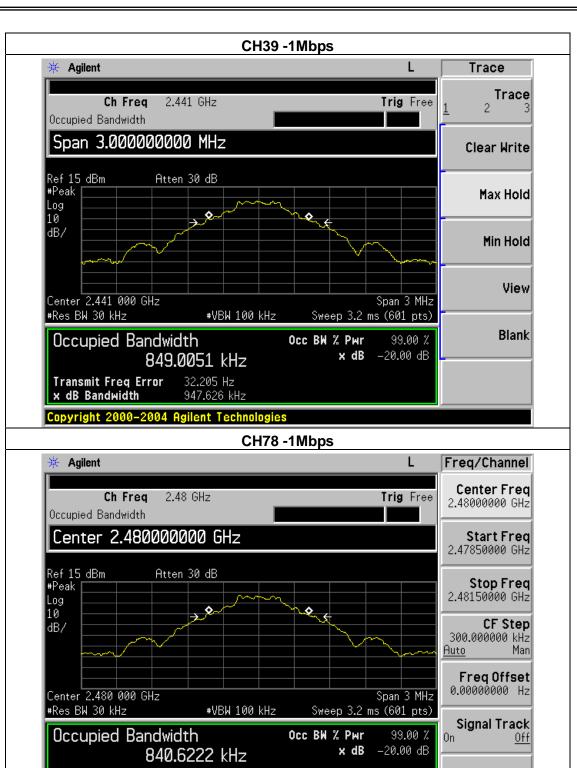


Transmit Freq Error

x dB Bandwidth

-678.508 Hz

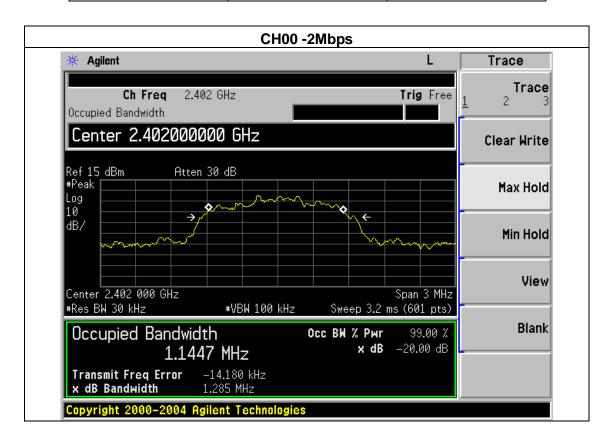
933.270 kHz



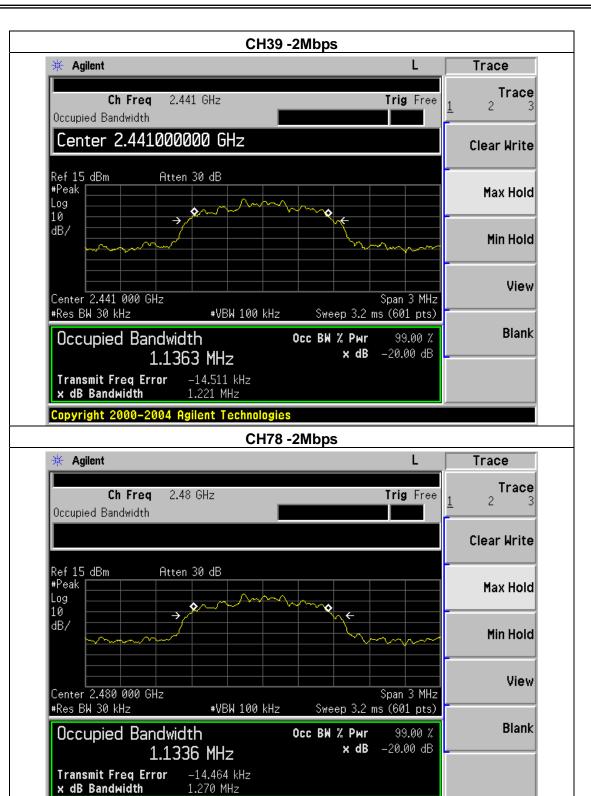


EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00 / CH39 /C78(2Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.285	PASS
2441 MHz	1.221	PASS
2480 MHz	1.270	PASS



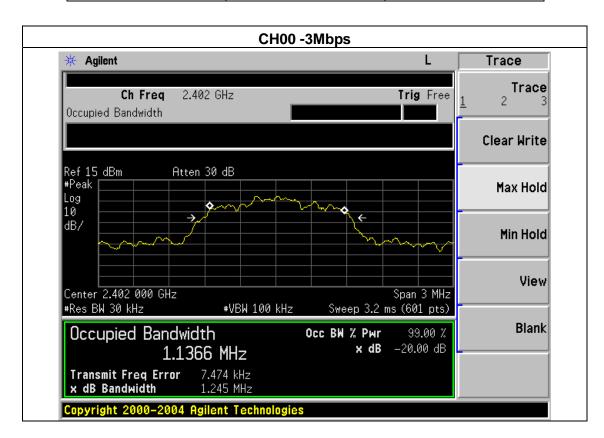




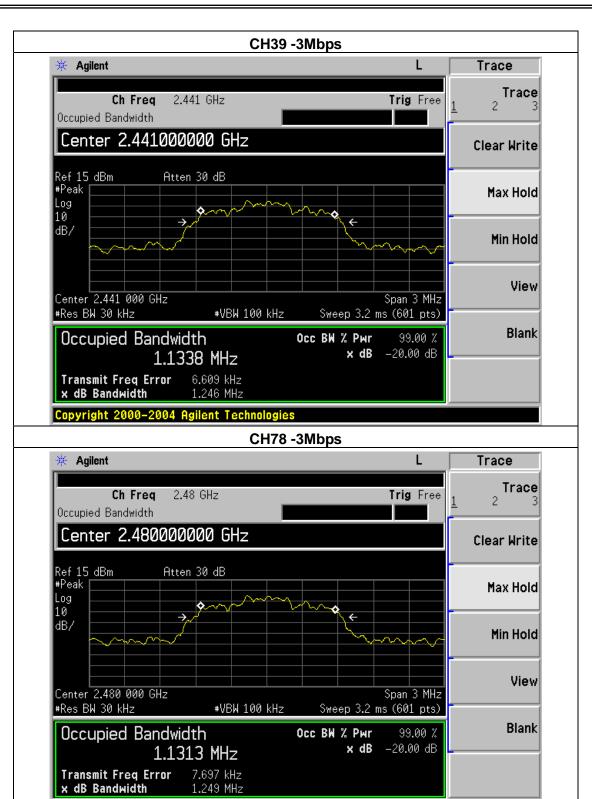


EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00 / CH39 /C78 (3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.245	PASS
2441 MHz	1.246	PASS
2480 MHz	1.249	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

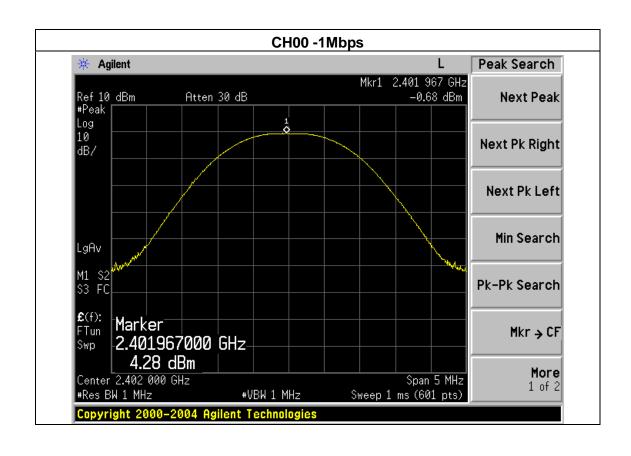
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



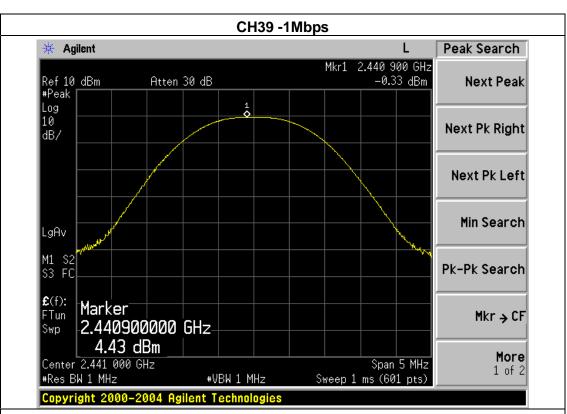
8.1.5 TEST RESULTS

EUT:	HEXA Pride 8	Model Name :	Pride 8
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode:	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

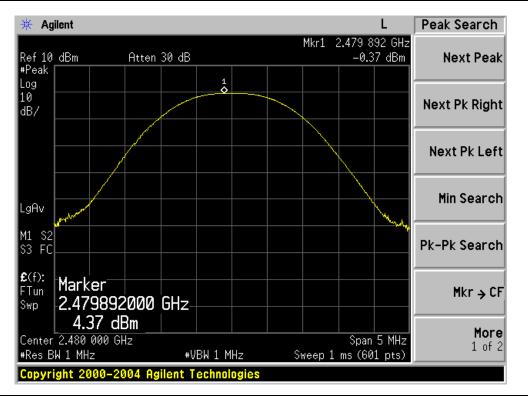
		1Mbps	
Test Channel	Frequency	Peak Output Power	LIMIT
icst onamici	(MHz)	(dBm)	(dBm)
CH00	2402	-0.68	30
CH39	2441	-0.33	30
CH78	2480	-0.37	30
2Mbps			
CH00	2402	-1.01	20.96
CH39	2441	0.25	20.96
CH78	2480	0.88	20.96
	3Mbps		
CH00	2402	-1.22	20.96
CH39	2441	0.29	20.96
CH78	2480	0.89	20.96



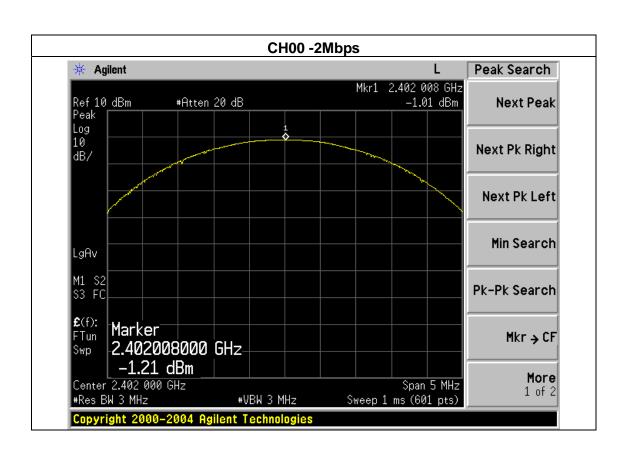




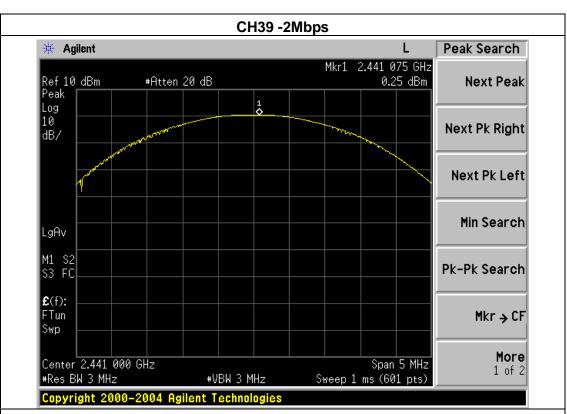




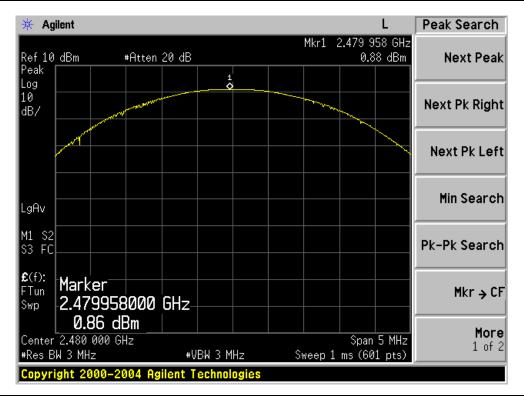




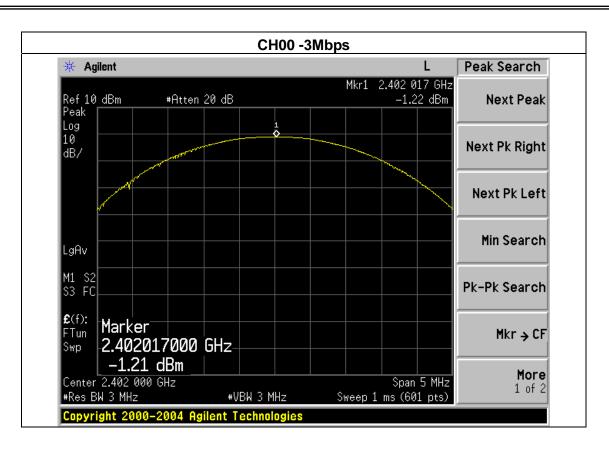




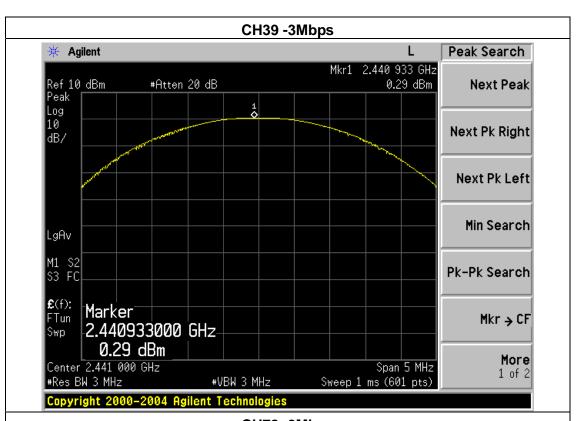




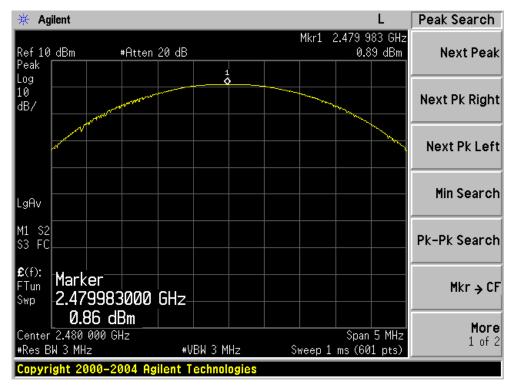














9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

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:	HEXA Pride 8	Model Name :	Pride 8			
Temperature:	25 ℃	Relative Humidity:	60%			
Pressure:	1012 hPa	Test Voltage :	DC 3.7V			
Test Mode:	CH00/ CH78 (1M/2M/3Mbps Mode)					

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result						
1Mbps Non-hopping									
2400	59.48	20	Pass						
2483.5	44.10	20	Pass						
2Mbps Non-hopping									
2400	56.63	20	Pass						
2483.5	50.22	20	Pass						
	3Mbps Non-hopping								
2400	54.55	20	Pass						
2483.5	60.88	20	Pass						
	1Mbps hopping								
2400	60.87	20	Pass						
2483.5	45.31	20	Pass						
2Mbps hopping									
2400	59.89	20	Pass						
2483.5	45.23	20 Pass							
3Mbps hopping									
2400	57.23	20	Pass						
2483.5	62.32	20	Pass						

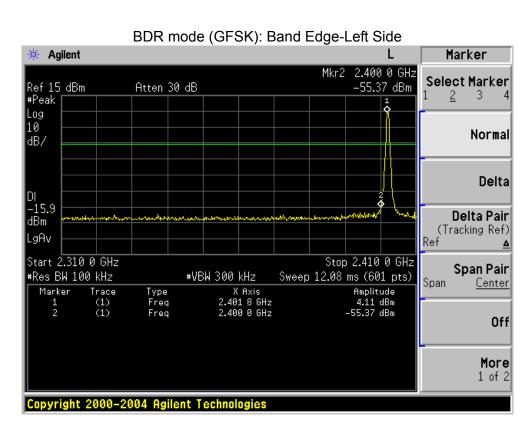


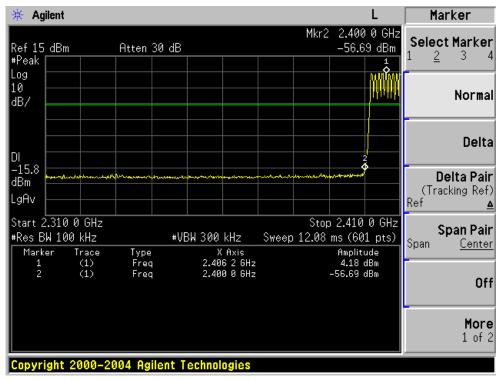
Radiated band edge:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Commont			
(MHz)	(dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment			
1Mbps Non-hopping										
2390	55.52	-13.06	42.46	74.00	-31.54	peak	Vertical			
2390	56.51	-13.06	43.45	74.00	-30.55	peak	Horizontal			
2483.5	55.42	-12.78	42.64	74.00	-31.36	peak	Vertical			
2483.5	57.75	-12.78	44.97	74.00	-29.03	peak	Horizontal			
1Mbps hopping										
2390	56.47	-13.06	43.41	74.00	-30.59	peak	Vertical			
2390	57.57	-13.06	44.51	74.00	-29.49	peak	Horizontal			
2483.5	55.45	-12.78	42.67	74.00	-31.33	peak	Vertical			
2483.5	56.72	-12.78	43.94	74.00	-30.06	peak	Horizontal			
		21	Mbps Non-hopp	ing	ı	1	,			
2390	56.32	-13.06	43.26	74.00	-30.74	peak	Vertical			
2390	54.03	-13.06	40.97	74.00	-33.03	peak	Horizontal			
2483.5	57.64	-12.78	44.86	74.00	-29.14	peak	Vertical			
2483.5	56.02	-12.78	43.24	74.00	-30.76	peak	Horizontal			
	Γ	T	2Mbps hopping)	T	ı	1			
2390	54.27	-13.06	41.21	74.00	-32.79	peak	Vertical			
2390	56.02	.02 -13.06		74.00	-31.04	peak	Horizontal			
2483.5	57.32	-12.78	44.54	74.00	-29.46	peak	Vertical			
2483.5	55.67	-12.78	42.89	74.00	-31.11	peak	Horizontal			
3Mbps Non-hopping										
2390	56.63	-13.06	43.57	74.00	-30.43	peak	Vertical			
2390	56.57	-13.06	43.51	74.00	-30.49	peak	Horizontal			
2483.5	55.27	-12.78	42.49	74.00	-31.51	peak	Vertical			
2483.5	56.63	-12.78	43.85	74.00	-30.15	peak	Horizontal			
3Mbps hopping										
2390	54.82	-13.06	41.76	74.00	-32.24	peak	Vertical			
2390	56.16	-13.06	43.10	74.00	-30.90	peak	Horizontal			
2483.5	54.72	-12.78	41.94	74.00	-32.06	peak	Vertical			
2483.5	57.28	-12.78	44.50	74.00	-29.50	peak	Horizontal			

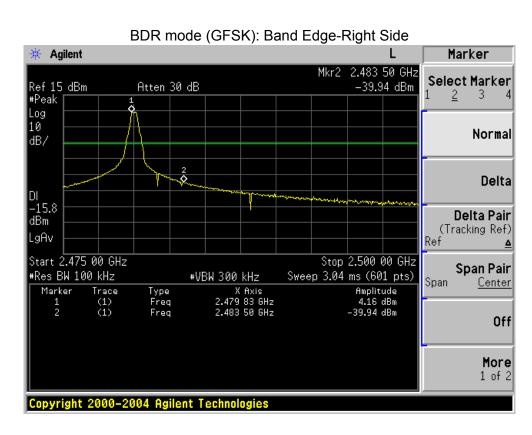
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

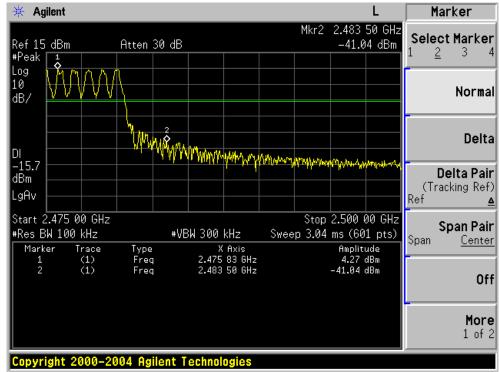




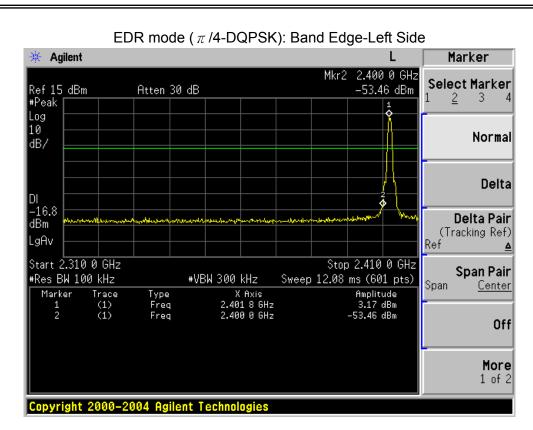


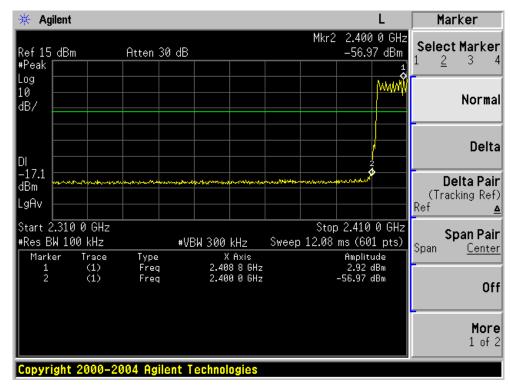




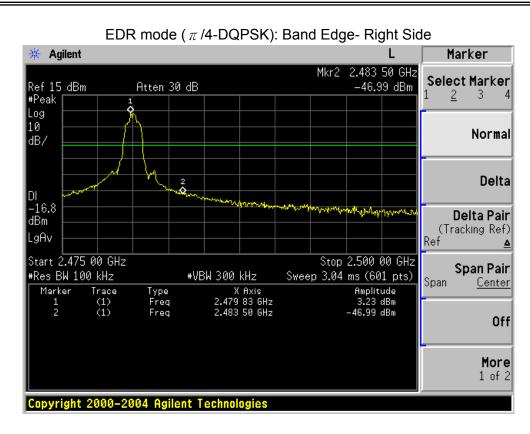


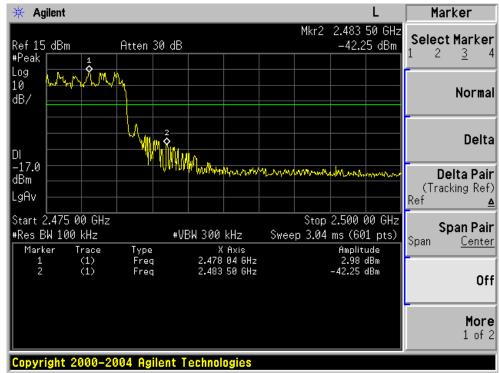




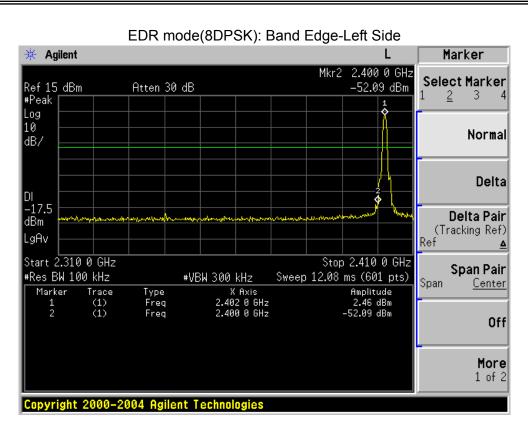


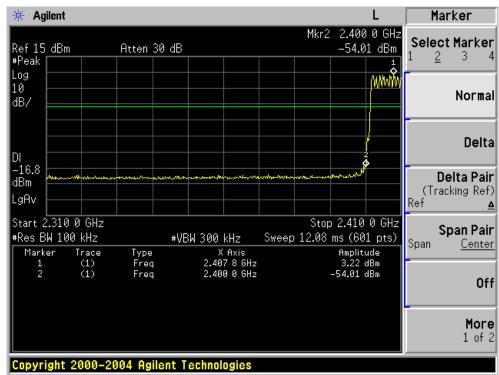




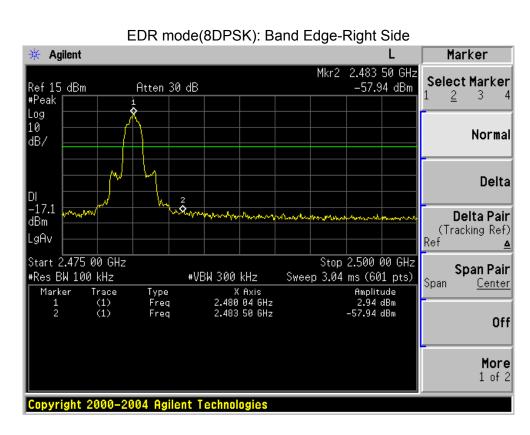


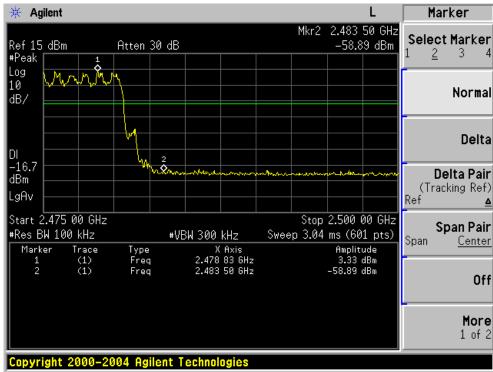












NOTE: Hopping enabled and disabled have evaluated, and the wortest data was reported



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.

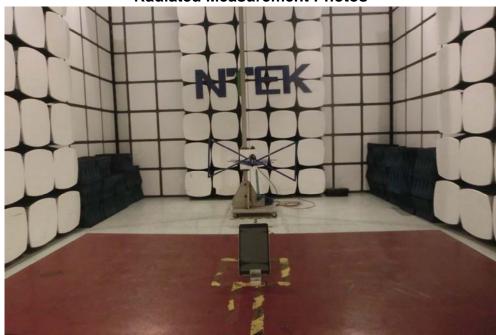
10.2 EUT ANTENNA

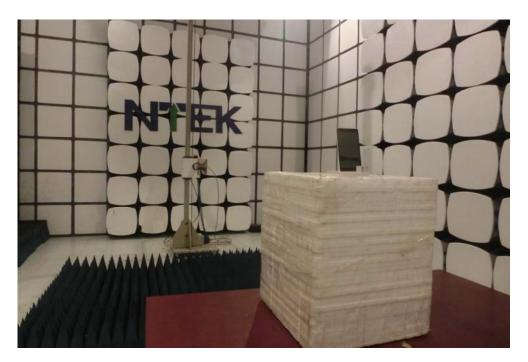
The E	UT	antenna is	permanent	attach	าed a	antenna. I	t compl	ly with	the s	tandard	l requirement	t.



11. EUT TEST PHOTO









CONDUCTED EMISSION Photos



