

Global United Technology Service Co., Ltd.

Report No: GTSE10090022802

FCC REPORT

Applicant: Topstar Overseas Electronics Co., Ltd.

4-7/F, Building B, ChengChengFa Industrial Zone, Shenzhen

Address of Applicant: export Processing Zone, PingShan new District, Shenzhen,

China

Equipment Under Test (EUT)

Product Name: All-In-One PC

Model No.: P81

FCC ID: YVW-P81

Standards: FCC CFR Title 47 Part 15 Subpart B:2009

Date of Receipt: 08 Oct., 2010

Date of Test: 08-22 Oct., 2010

Date of Issue: 22 Oct., 2010

Test Result: PASS *

Authorized Signature:

Robinson Lo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of GTS International Electrical Approvals or testing done by GTS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by GTS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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3 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Passed		
Readiated Emissions	Part15.109	Passed		

Passed: The EUT complies with the essential requirements in the standard.



4 General Information

4.1 Client Information

Applicant:	Topstar Overseas Electronics Co., Ltd.			
Address of Applicant:	4-7/F, Building B, ChengChengFa Industrial Zone, Shenzhen			
	export Processing Zone, PingShan new District, Shenzhen, China.			
Manufacturer/ Factory:	Topstar Overseas Electronics Co., Ltd.			
Address of Manufacturer/	4-7/F, Building B, ChengChengFa Industrial Zone, Shenzhen			
Factory:	export Processing Zone, PingShan new District, Shenzhen, China.			

4.2 General Description of E.U.T.

Product Name:	All-In-One PC
Model No.:	P81
Power supply:	Input: AC 100-240V, 2A, 50-60Hz
	Output: DC 19V 3.42A

4.3 Test environment and test mode

Operating Environment:				
Temperature:	24.0 °C			
Humidity:	52 % RH			
Atmospheric Pressure:	1008 mbar			
Test mode:				
Operation mode	Keep the EUT in operation mode with full load.			

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4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● FCC —Registration No.: 600491

Global United Technology Service Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 600491, July 20, 2010.

● Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Service Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

4.5 Test Location

All tests were performed at:

Global United Technology Service Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

4.6 Description of Support Units

The EUT was tested independently.

4.7 Deviation from Standards

Bionic, logic period and horn antenna were used instead of dipole antenna. Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

Global United Technology Service Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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4.10 Test Instruments list:

Radia	Radiated Emission									
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)				
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)				
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS201	Mar. 30 2010	Mar. 30 2011				
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS202	N/A	N/A				
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Sep. 10 2010	Sep. 10 2011				
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS204	Sep. 10 2010	Sep. 10 2011				
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS205	June 30 2010	June 30 2011				
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				
7	Coaxial Cable	GTS	N/A	GTS400	Apr. 01 2010	Apr. 01 2011				
8	Coaxial Cable	GTS	N/A	GTS401	Apr. 01 2010	Apr. 01 2011				
9	Coaxial cable	GTS	N/A	GTS402	Apr. 01 2010	Apr. 01 2011				
10	Coaxial Cable	GTS	N/A	GTS407	Apr. 01 2010	Apr. 01 2011				
11	Coaxial Cable	GTS	N/A	GTS408	Apr. 01 2010	Apr. 01 2011				
12	Amplifier(10KHz- 5GHz)	Sonnoma Instrument	305-1052	GTS210	Aug. 03 2010	Aug. 03 2011				
13	Amplifier(2GHz- 20GHz)	HP	8349B	GTS231	Aug. 03 2010	Aug. 03 2011				

Conducted Emission										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)				
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS206	Apr. 10 2010	Apr. 10 2011				
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS208	Sep. 14 2010	Sep. 14 2011				
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS209	Sep. 14 2010	Sep. 14 2011				
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS207	Apr. 14 2010	Apr. 14 2011				
5	Coaxial Cable	GTS	N/A	GTS406	Apr. 01 2010	Apr. 01 2011				
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A				

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5 Test results and Measurement Data

5.1 Conducted Emissions

Test Requirement:	FCC Part15 B Section 15.107							
Test Method:	ANSI C63.4: 2003							
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz							
Limit:	Fraguency range (MUz)	Limit (d	BuV)					
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30 60 50							
	* Decreases with the logarithm of the frequency.							
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement.							
Test setup:	LISN 40cm		er — AC power					
Test Instruments:	Refer to section 4.7 for details							
Test mode:	Refer to section 4.3 for details	;						
Test results:	Passed							

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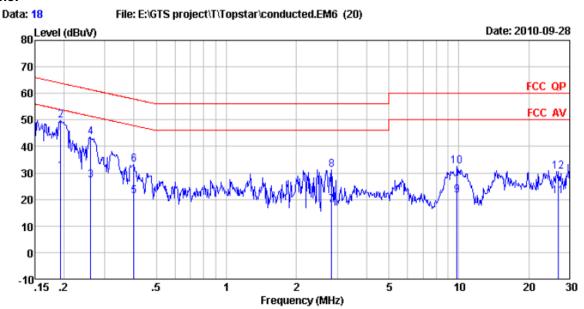


Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Condition : FCC QP LISN LINE

Job No. : 228IT

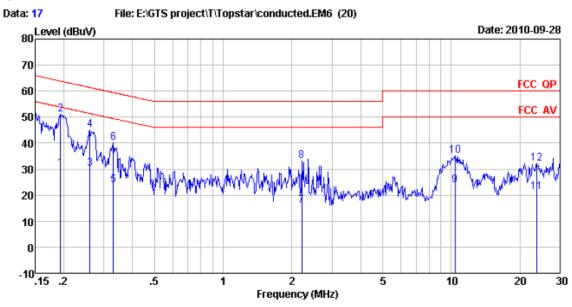
EUT : All-In-One PC Test Mode : Operation mode

Test Engineer: Franks

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	-dBuV	dB	
1 2 3 4 5 6 7 8 9	0. 193 0. 193 0. 260 0. 260 0. 400 0. 400 2. 839 2. 839 9. 809 9. 809	26. 70 46. 00 23. 40 39. 83 17. 50 29. 73 14. 50 27. 48 17. 80 28. 92	3. 66 3. 63 3. 63 3. 58 3. 58 3. 36 3. 36 3. 22 3. 22	0. 01 0. 01 0. 01 0. 01 0. 01 0. 01 0. 19 0. 19 0. 40 0. 40	30. 37 49. 67 27. 04 43. 47 21. 09 33. 32 18. 05 31. 03 21. 42 32. 54	63. 89 51. 42 61. 42 47. 86 57. 86 46. 00 56. 00 50. 00	-14. 22 -24. 38 -17. 95 -26. 77 -24. 54 -27. 95 -24. 97	Average QP Average QP Average QP Average
11 12	26. 841 26. 841	17.80 27.04	3. 11 3. 11	0. 45 0. 45	21.36	50.00		Average



Neutral Line:



Condition : FCC QP LISN NEUTRAL

Job No. : 228IT

EUT : All-In-One PC Test Mode : Operation mode

Test Engineer: Franks

CSC	Freq	Read	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1 2 3 4 5 6 7 8 9 10 11	0. 193 0. 193 0. 260 0. 260 0. 330 0. 330 2. 213 2. 213 10. 397 10. 397 23. 636	26. 50 47. 55 26. 50 41. 41 20. 10 36. 61 12. 40 29. 49 20. 10 31. 51 17. 50	3. 66 3. 63 3. 63 3. 60 3. 60 3. 39 3. 39 3. 22 3. 22 3. 13	0. 01 0. 01 0. 01 0. 01 0. 01 0. 01 0. 13 0. 13 0. 40 0. 40 0. 45	30. 17 51. 22 30. 14 45. 05 23. 71 40. 22 15. 92 33. 01 23. 72 35. 13 21. 08	63. 89 51. 42 61. 42 49. 44 59. 44 46. 00 56. 00 50. 00 60. 00	-12. 67 -21. 28 -16. 37 -25. 73 -19. 22 -30. 08 -22. 99 -26. 28 -24. 87	Average QP Average QP Average QP Average
12	23.636	28.45	3.13	0.45	32.03	60.00	-27.97	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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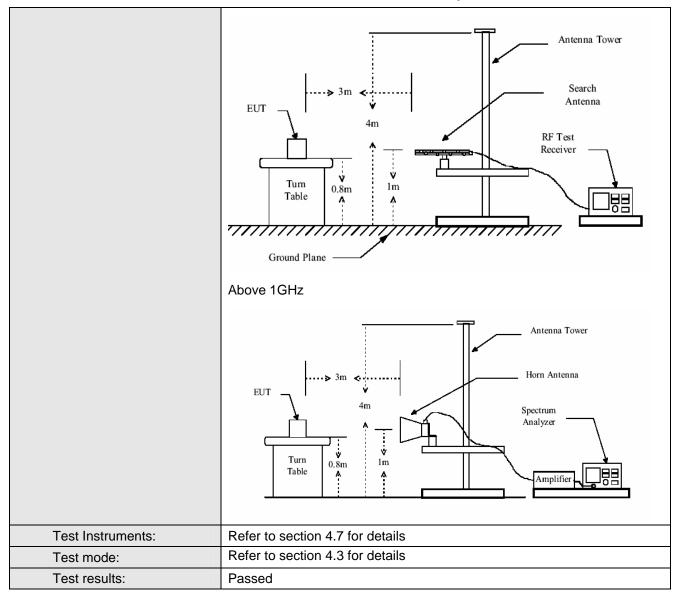


5.2 Radiated Emission

Limit: Frequency	Test Requirement:	FCC Part15 B Section 15.109								
Test site: Measurement Distance: 3m (Semi-Anechoic Chamber) Receiver setup: Frequency Detector RBW VBW Remark 30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value 100KHz 300KHz Quasi-peak Value 216MHz-98MHz 40.0 Quasi-peak Value 216MHz-960MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value 960MHz-1GHz 960MHz 96	Test Method:	ANSI C63.4: 2003								
Receiver setup: Frequency Detector RBW VBW Remark	Test Frequency Range:	30MHz to 1000MHz								
Frequency Detector RBW VBW Remark 30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Value Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value 1 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenn tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than	Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)								
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Limit: Frequency Limit (dBuV/m @3m) Remark	·	Frequency	VBW	Remark						
Frequency Limit (dBuV/m @3m) Remark 30MHz-88MHz 40.0 Quasi-peak Value 88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value 1 Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was turned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than		30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value				
30MHz-88MHz	Limit:	F								
### Rest Procedure: 1										
Test Procedure: a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenn tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than						Quasi-peak Value				
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the limit specified, then testing could be stopped and the peak value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet.		rotated 360 radiation. b. The EUT was antenna, whatower. c. The antennathe ground Both horizo make the make the make the maters and degrees to be. The test-recession of the EUT have 10dB peak or aversal and the second s	he highest ence-receiving able-height antenna ur meters above e field strength. htenna are set to ged to its worst rom 1 meter to 4 degrees to 360 Function and s 10dB lower than and the peak values essions that did not using peak, quasi-							
Test setup: Below 1GHz	Test setup:									

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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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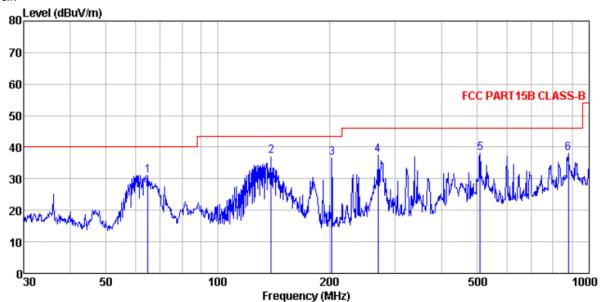


Project No.: GTSE100900228IT

Measurement Data

Below 1GHz

Vertical:



Site

: 3m chamber : FCC PART15B CLASS-B 3m VULB9163-S VERTICAL Condition

Job No. : 228IT

: All-In-One PC EUT Test Mode : Operation mode

Test Engineer: William

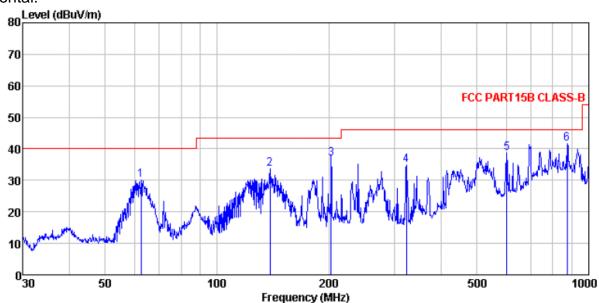
	Freq	ReadA Level			Preamp Factor			Over Limit	Remark
	MHz	dBu∜	dB/m	dB	<u>dB</u>	dBuV/m	dBuV/m	<u>dB</u>	
1 2 3 4 5	270.37	48.58 45.11 41.92	11.90 15.85 19.35	1.45 1.78 2.00 2.43	25.64 25.62 25.59 25.55	37.16 36.64 37.37 38.15	40.00 43.50 43.50 46.00 46.00 46.00	-6.34 -6.86 -8.63 -7.85	QP QP QP QP

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Project No.: GTSE100900228IT

Horizontal:



Site

: 3m chamber : FCC PART15B CLASS-B 3m VULB9163-S HORIZONTAL Condition

: 228IT Job No.

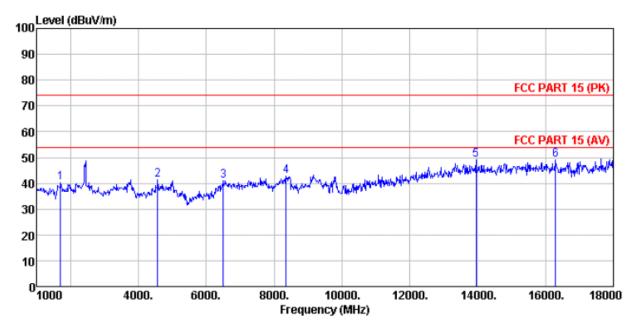
EUT : All-In-One PC Test Mode : Operation mode Test Engineer: William

000	Freq					Limit Level Line		Over Limit	Remark
	MHz	dBu∀	<u>dB</u> /m			dBuV/m			
1 2 3 4 5	202.81 323.32	43.95 37.89	11.50 14.42 23.54	1.78 2.12 2.69	25.64 25.62 25.58 25.54		43.50 43.50 46.00 46.00	-6.48 -11.09 -7.42	QP QP QP QP

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Above 1GHz



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL Condition

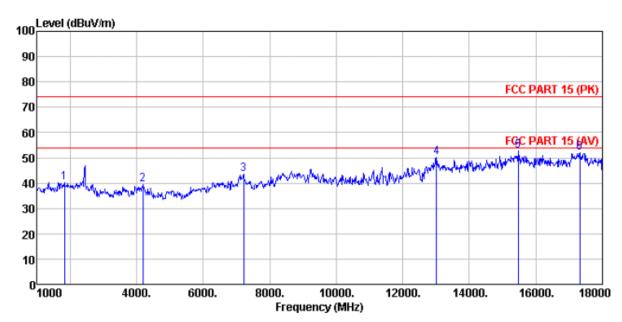
: 228IT

Job No. EUT : All-In-One PC Test Mode : Operation mode

est	Engineer:	ишке							
		Read	Antenna	Cable	Preamp		Limit	Over	
	Freq		Factor				Line	Limit	Remark
	rrcq	20001	1 40 (01	2055	1 40 (01	20001	LINO	LIMI	Komark
						75-77-	75-77-		
	MHz	dBu∀	dΒ/m	dB	ФB	dBuV/m	qpn//w	dΒ	
1	1714.00	40.65	25.00	2.59	28.13	40.11	74.00	-33.89	Peak
2	4570.00	29.44	31.47	4.92	24.44	41.39	74.00	-32.61	Peak
3	6508.00	25.83	33.68	6.50	25.00	41.01	74.00	-32.99	Peak
4	8361.00	26.37	36.45	7.50	27.56	42.76	74.00	-31.24	Peak
5	13954.00	20.24	41.76	11.27	24.09	49.18	74.00	-24.82	Peak
6	16300.00	20.64	39.21	14.35	25.19	49.01	74.00	-24.99	Peak

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Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL Condition

Job No. : 228IT

: All-In-One PC Test Mode Test Engin : Operation mode

ssτ	Engineer:	Duke							
		Read	Antenna	Cable	Preamp		Limit	Over	
	Fred		Factor					Limit	Remark
	1104	20001	1 40001	2000	1 40 (01	20001	Lino	LIMIC	nomark
						75-77-	75-77-		
	MHz	dBu∀	qp/m	dB	ФB	dBuV/m	qpn//w	dB	
1	1833.00	41.80	25.45	2.66	29.57	40.34	74.00	-33.66	Peak
2	4196.00	30.52	30.22	4.47	25.91	39.30	74.00	-34.70	Peak
3	7222.00	26.80	36.19	6.87	26.41	43.45	74.00	-30.55	Peak
4	13019.00	23.93	39.43	10.83	23.90	50.29	74.00	-23.71	Peak
5	15467.00	24.85	38.75	13.82	24.82	52.60	74.00	-21.40	Peak
6	17320.00								

Remark:

The peak emission value are met the average limit, so it only shows the peak value.

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