



BUREAU
VERITAS

TEST REPORT NUMBER: (8523)067-0096

TEST REPORT

Applicant:	New Bright Industrial Co., Ltd	Fax:	---
		E-mail:	---
Address :	New Bright Building 11 Sheung Yuet Road, Kowloon Bay, Kowloon,Hongkong		
Test Date :	2023-3-15 to 2023-3-17		

Manufacturer or Supplier :	New Bright Industrial Co., Ltd
Address :	New Bright Building 11 Sheung Yuet Road, Kowloon Bay, Kowloon,Hongkong
Sample Description:	Toy Transmitter
Model number:	G31H
Additional Model :	G32H, G33H, 2036H
Rated Voltage:	DC3V (AAA*2)
FCC ID :	G6D31HN
IC :	9650A-31HN

The submitted sample of the above equipment has been tested according to following standard(s)

47 CFR Part 15, Subpart C 249

RSS-210 Issue 10 December 2019

RSS-Gen Issue 5:2018+A1:2019+A2:2021

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Assistant Manager

Name: Nick Lung

Date: MAR 22,2023

Bureau Veritas Shenzhen Co., Ltd

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1 Test Summary

Test Item	IC Test Requirement	Test method	Result
Antenna Requirement	RSS-Gen Section 6.8 47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10-2013	PASS
AC Power Line Conducted Emission	RSS-Gen Section 8.8 47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	N/A
Field Strength of the Fundamental Signal	RSS 210 B 10(a) 47 CFR Part 15, Subpart C Section 15.249 (a)	RSS-Gen section 6.12 & ANSI C63.10-2013	PASS
Spurious Emissions	RSS 210 B 10 (b) 47 CFR Part 15, Subpart C Section 15.249 (a)/15.209	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency	RSS 210 B 10 (b) 47 CFR Part 15, Subpart C Section 15.249(a)/15.205	RSS-Gen section 6.13 & ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	RSS-Gen section 6.7 47 CFR Part 15, Subpart C Section 15.215 (c)	RSS-Gen section 6.7 & ANSI C63.10-2013	PASS
99% Occupied Bandwidth	RSS-Gen section 6.7	RSS-Gen section 6.7	PASS

N/A: Since the EUT is powered by battery, this AC power line conducted emission test should be not applicable



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3 General Information

3.1 Client Information

Applicant:	New Bright Industrial Co., Ltd
Address of Applicant:	New Bright Building 11 Sheung Yuet Road, Kowloon Bay, Kowloon, Hongkong
Manufacturer:	New Bright Industrial Co., Ltd
Address of Manufacturer:	New Bright Building 11 Sheung Yuet Road, Kowloon Bay, Kowloon, Hongkong

3.2 General Description of EUT

Name:	Toy Transmitter
Tset Model No.:	G31H
Serial No:	G32H, G33H, 2036H
Trade Mark :	N/A
Software Version:	V1.2
Hardware Version:	V2.1
Frequency Range:	2410-2473MHz
Modulation Type:	GFSK
Number of Channels:	32
Sample Type:	Portable product
Antenna Type:	PCB Trace
Antenna Gain:	-3.34dBi



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Operation Frequency each of channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410MHz	13	2431MHz	25	2458MHz
2	2414MHz	14	2433MHz	26	2462MHz
3	2415MHz	15	2434MHz	27	2464MHz
4	2416MHz	16	2439MHz	28	2465MHz
5	2417MHz	17	2441MHz	29	2466MHz
6	2418MHz	18	2442MHz	30	2467MHz
7	2419MHz	19	2444MHz	31	2469MHz
8	2421MHz	20	2446MHz	32	2473MHz
9	2426MHz	21	2450MHz		
10	2428MHz	22	2452MHz		
11	2429MHz	23	2454MHz		
12	2430MHz	24	2456MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2410MHz
The Middle channel	2442MHz
The Highest channel	2473MHz



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3.3 Test Environment and Mode

Operating Environment:	
Temperature:	29 °C
Humidity:	59 % RH
Atmospheric Pressure:	1001mbar
Test mode:	
Test Mode:	Use test software (RF test) to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
/	/	/	/	CQA



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3.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for **CQA** laboratory is reported:

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10^{-8}
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8 °C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	time	0.6 %.
14	Frequency Error	5.5 Hz



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3.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Testers and auditors

The tester in this report is Timo Lei, The auditor of this report is Lewis Zhou, The test site is: Shenzhen Huaxia Testing Technology Co., Ltd.

3.8 Test Facility

• **ISED No.: 22984**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology 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 our files. Registration No.: 522263

• **CAB identifier: CN0055**

Shenzhen Huaxia Testing Technology Co., Ltd. CAB identifier No.: CN0055

3.9 Deviation from Standards

None.

3.10 Abnormalities from Standard Conditions

None.

3.11 Other Information Requested by the Customer

None.



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3.12 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	RSS-Gen Section 6.8 47 CFR Part 15C Section 15.203
EUT Antenna:	Please refer to the photos Appendix B
The antenna is soldered on the PCB, no need to consider replacement. best case gain Antenna is -3.34dBi.	

4.2 Radiated Emission

Test Requirement:	RSS 210 B 10 (a) 47 CFR Part 15, Subpart C Section 15.205/15.209
Test Method:	ANSI C63.10 & RSS-Gen section 6.12/6.13
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)



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Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30KHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30KHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30KHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30KHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30KHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Note: For fundamental frequency, RBW=5MHz, VBW=5MHz, Peak detector is for PK value, RMS detector is for Average value.					
Limit: (Spurious Emissions and band edge)	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Note: 1) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. 2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.					
Limit: (Field strength of the fundamental signal)	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.0		Average Value	
		114.0		Peak Value	
Test Setup:					

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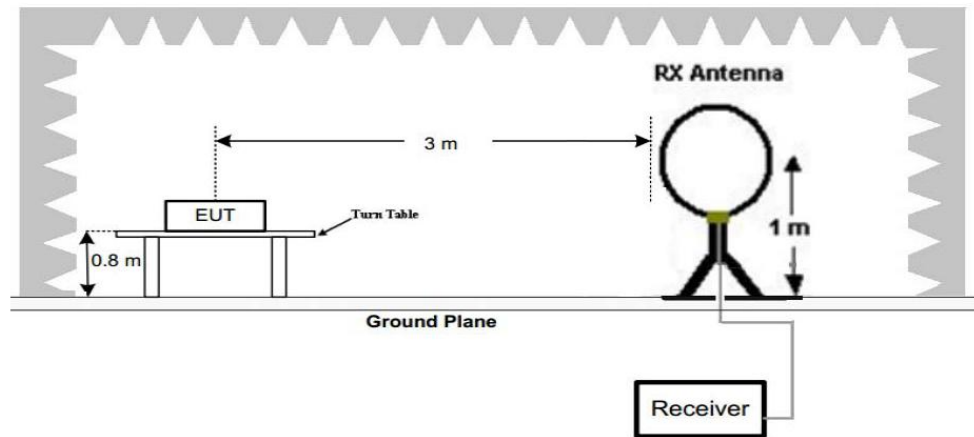


Figure 1. Below 30MHz

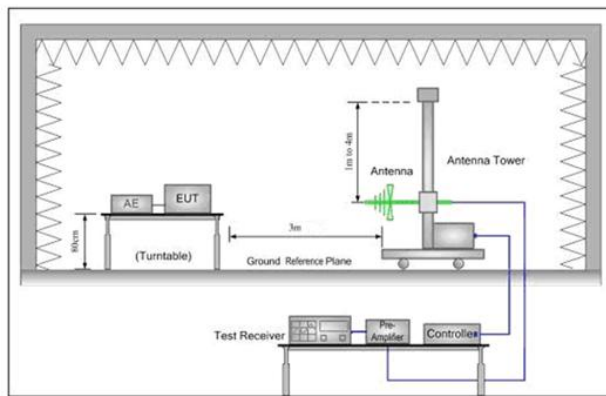


Figure 2. 30MHz to 1GHz

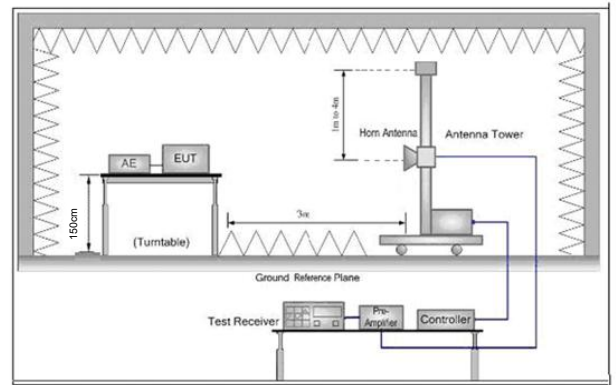


Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- Note: For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 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.



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	<p>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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values 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.</p> <p>g. Test the EUT in the lowest channel, the middle channel, the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Final Test Mode:	Pretest the EUT at Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Voltage:	DC3.0V (AAA*2)
Test Results:	Pass

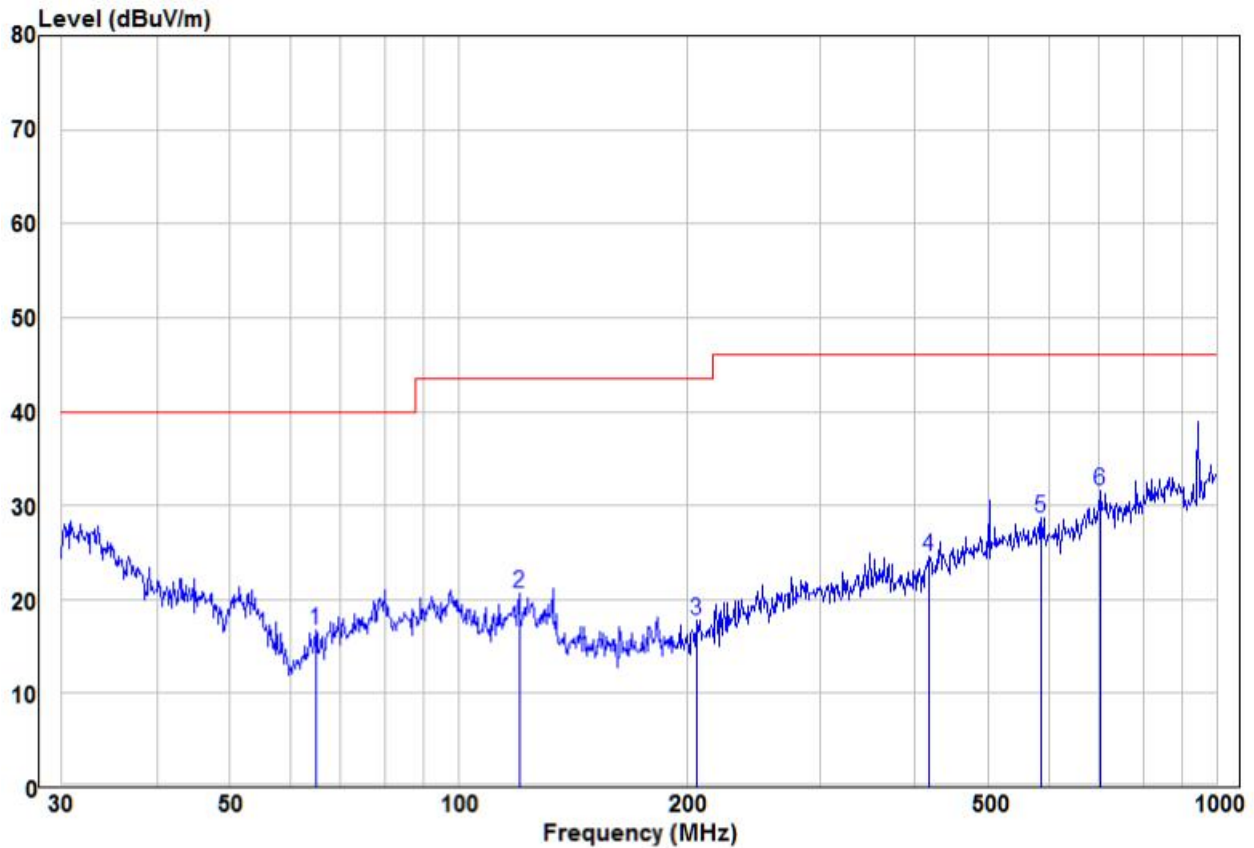


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Measurement Data

30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Vertical



	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	64.89	10.24	6.55	16.79	40.00	-23.21 Peak	VERTICAL
2	120.28	10.00	10.69	20.69	43.50	-22.81 Peak	VERTICAL
3	205.68	9.15	8.67	17.82	43.50	-25.68 Peak	VERTICAL
4	417.64	8.83	15.71	24.54	46.00	-21.46 Peak	VERTICAL
5	586.84	10.01	18.67	28.68	46.00	-17.32 Peak	VERTICAL
6 pp	701.76	10.41	21.10	31.51	46.00	-14.49 Peak	VERTICAL

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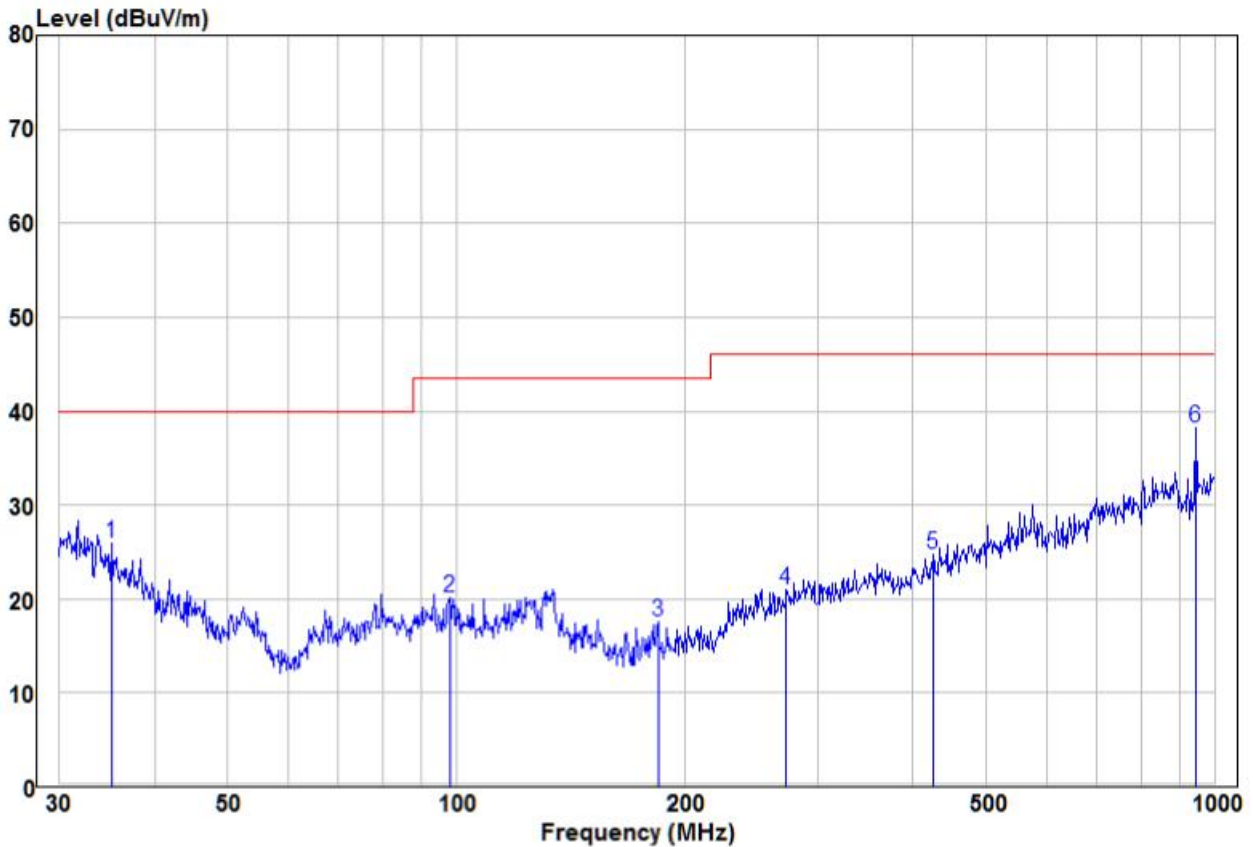
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30MHz~1GHz (the worst case)		
Test mode:	Transmitting (Lowest channel)	Horizontal



	Read Freq	Read Level	Factor	Limit Level	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	35.13	11.36	14.55	25.91	40.00	-14.09	Peak HORIZONTAL
2	98.14	9.56	10.53	20.09	43.50	-23.41	Peak HORIZONTAL
3	184.49	9.39	8.17	17.56	43.50	-25.94	Peak HORIZONTAL
4	272.28	8.25	12.81	21.06	46.00	-24.94	Peak HORIZONTAL
5	425.03	8.82	15.95	24.77	46.00	-21.23	Peak HORIZONTAL
6 pp	945.44	14.54	23.62	38.16	46.00	-7.84	Peak HORIZONTAL



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Above 1GHz							
Test mode:		Transmitting		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2390	53.04	-4.26	48.78	74	-25.22	Peak	H
2390	37.87	-4.26	33.61	54	-20.39	AVG	H
2400	50.25	1.18	51.43	74	-22.57	Peak	H
2400	38.94	1.18	40.12	54	-13.88	AVG	H
2410	100.07	-9.33	90.74	114	-23.26	peak	H
2410	95.88	-9.33	86.55	94	-7.45	AVG	H
4820	57.60	-4.28	53.32	74	-20.68	peak	H
4820	41.47	-4.28	37.19	54	-16.81	AVG	H
7230	53.49	1.13	54.62	74	-19.38	peak	H
7230	36.34	1.13	37.47	54	-16.53	AVG	H
2390	61.21	-9.2	52.01	74	-21.99	peak	V
2390	44.07	-9.2	34.87	54	-19.13	AVG	V
2400	59.86	-9.2	50.66	74	-23.34	peak	V
2400	46.29	-9.2	37.09	54	-16.91	AVG	V
2410	96.20	-9.33	86.87	114	-27.13	peak	V
2410	93.08	-9.34	83.74	94	-10.26	AVG	V
4820	57.48	-4.28	53.20	74	-20.80	peak	V
4820	43.06	-4.28	38.78	54	-15.22	AVG	V
7230	50.75	1.13	51.88	74	-22.12	peak	V
7230	37.15	1.13	38.28	54	-15.72	AVG	V



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Test mode:		Transmitting		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)		H/V
2442	96.50	-9.33	87.17	114	-26.83	peak	H
2442	91.17	-9.34	81.83	94	-12.17	AVG	H
4884	55.18	-4.28	50.90	74	-23.10	peak	H
4884	40.73	-4.28	36.45	54	-17.55	AVG	H
7326	52.80	1.13	53.93	74	-20.07	peak	H
7326	38.46	1.13	39.59	54	-14.41	AVG	H
2442	100.29	-9.33	90.96	114	-23.04	peak	V
2442	96.80	-9.33	87.47	94	-6.53	AVG	V
4884	56.44	-4.28	52.16	74	-21.84	peak	V
4884	41.89	-4.28	37.61	54	-16.39	AVG	V
7326	51.33	1.13	52.46	74	-21.54	peak	V
7326	37.90	1.13	39.03	54	-14.97	AVG	V



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Test mode:		Transmitting		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
2473	100.67	-9.33	91.34	114	-22.66	peak	H
2473	95.68	-9.33	86.35	94	-7.65	AVG	H
2483.5	56.38	-4.28	52.10	74	-21.90	Peak	H
2483.5	42.81	-4.28	38.53	54	-15.47	AVG	H
4946	51.69	1.13	52.82	74	-21.18	peak	H
4946	36.82	1.13	37.95	54	-16.05	AVG	H
7419	62.49	-9.2	53.29	74	-20.71	peak	H
7419	46.31	-9.2	37.11	54	-16.89	AVG	H
2473	95.49	-9.23	86.26	114	-27.74	peak	V
2473	95.29	-9.23	86.06	94	-7.94	AVG	V
2483.5	61.78	-9.29	52.49	74	-21.51	peak	V
2483.5	42.93	-9.29	33.64	54	-20.36	AVG	V
4946	54.78	-4.03	50.75	74	-23.25	peak	V
4946	43.53	-4.03	39.50	54	-14.50	AVG	V
7419	52.57	1.68	54.25	74	-19.75	peak	V
7419	36.15	1.68	37.83	54	-16.17	AVG	V

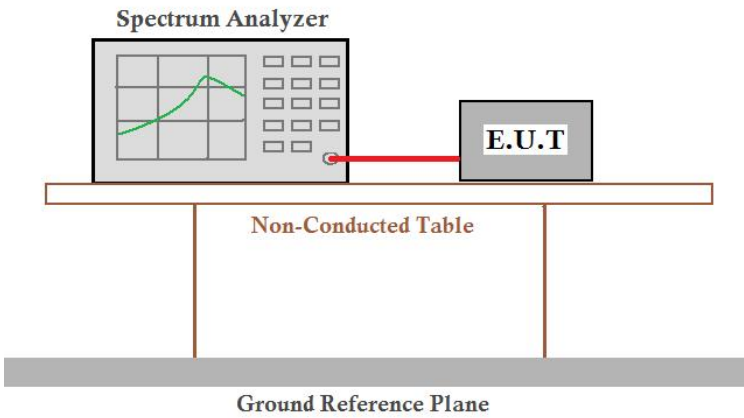
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Pre-amplifier Factor}$$
- 2) Scan from 9kHz to 25GHz, The disturbance above 8GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

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4.3 20dB Bandwidth

Test Requirement:	RSS-Gen Section 6.7 47 CFR Part 15C Section 15.215
Test Method:	ANSI C63.10:2013 & RSS-Gen Section 6.7
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.423	Pass
Middle	1.678	Pass
Highest	1.400	Pass

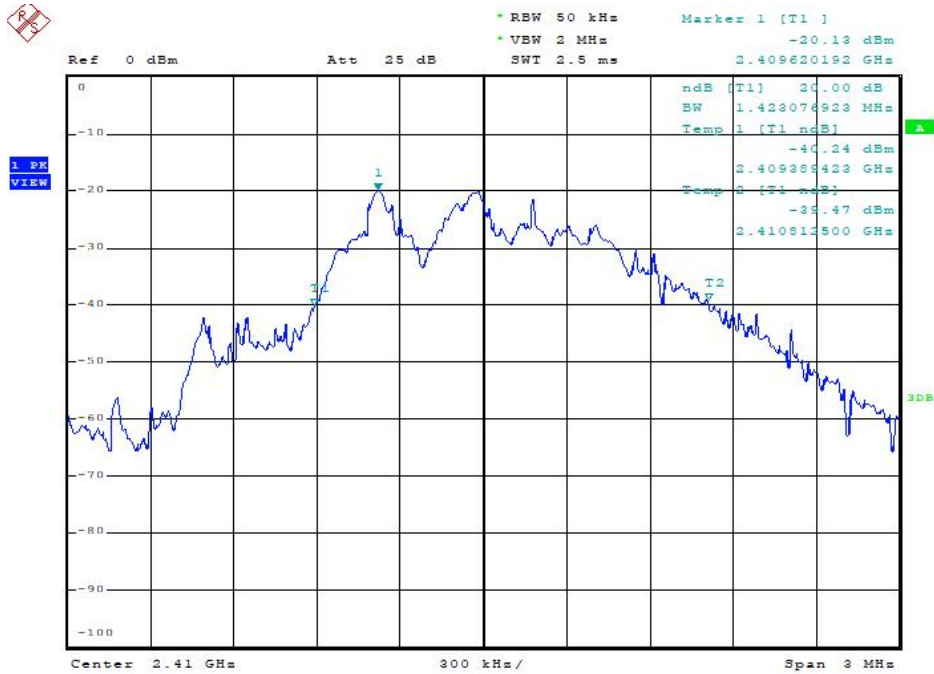


BUREAU VERITAS

TEST REPORT NUMBER: (8523)067-0096

Test plot as follows:

Test channel: Lowest

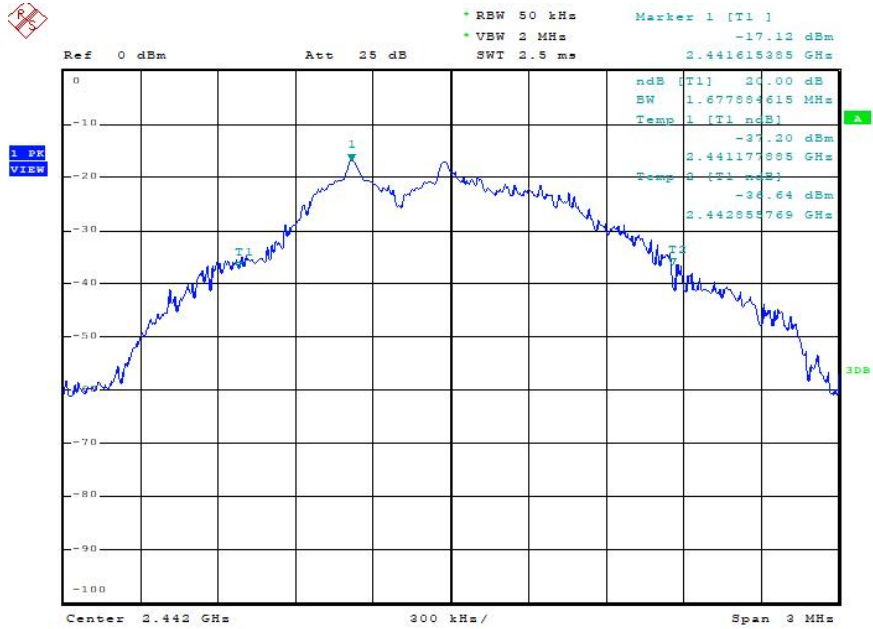




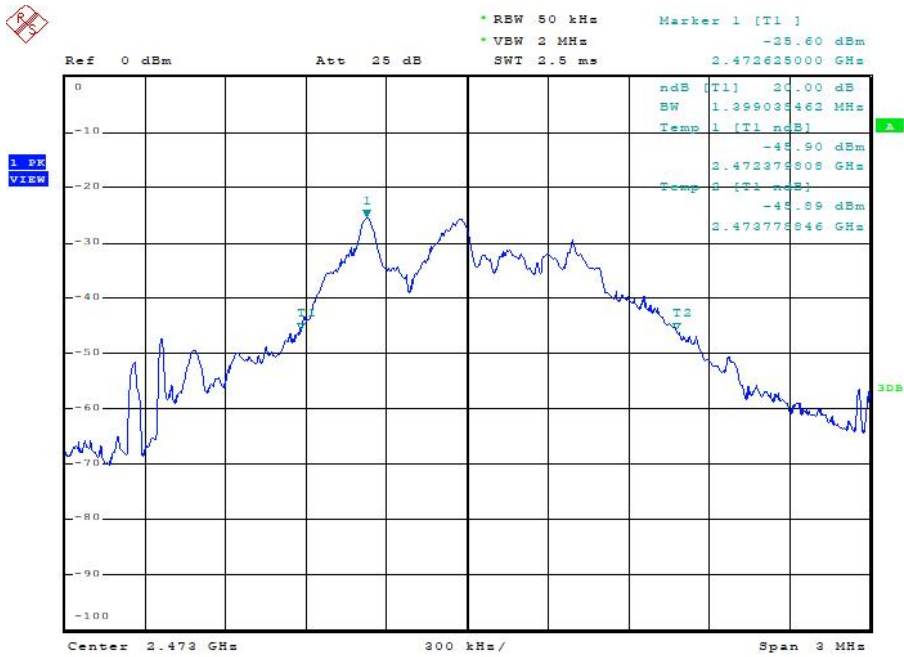
BUREAU VERITAS

TEST REPORT NUMBER: (8523)067-0096

Test channel: Middle

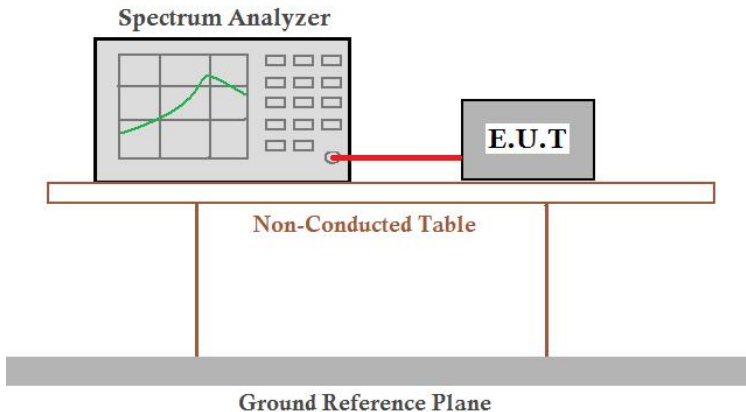


Test channel: Highest



TEST REPORT NUMBER: (8523)067-0096

4.4 99% Occupancy Bandwidth

Test Requirement:	RSS-Gen Section 6.7
Test Method:	RSS-Gen Section 6.7
Test Setup:	
Test Mode:	Transmitting with GFSK at lowest, middle and highest channel.
Limit:	N/A
Test Results:	Pass

Measurement Data

Test channel	99% Occupancy Bandwidth (MHz)	Results
Lowest	1.400	Pass
Middle	1.394	Pass
Highest	1.389	Pass

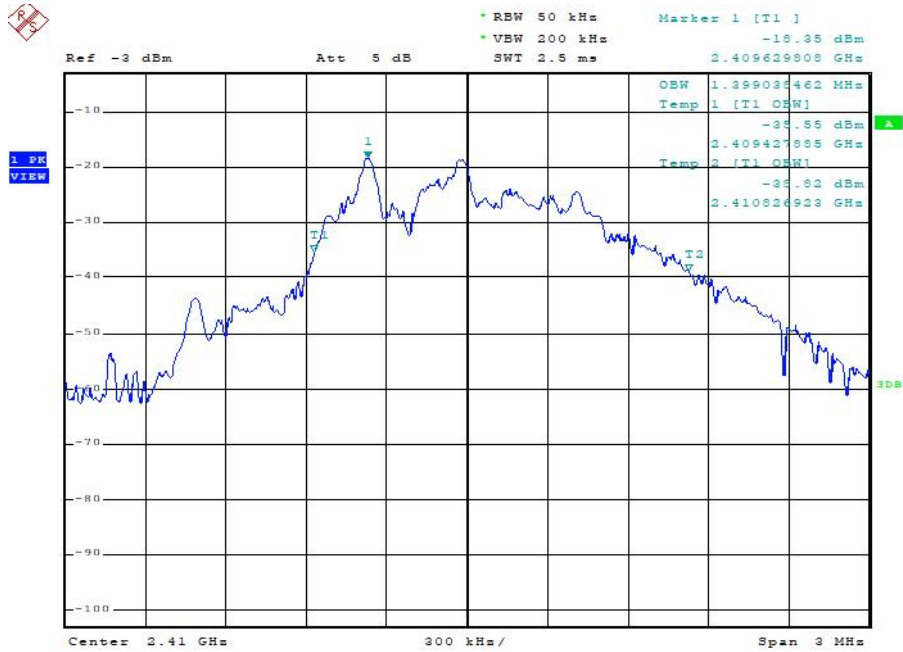


BUREAU VERITAS

TEST REPORT NUMBER: (8523)067-0096

Test plot as follows:

Test channel: Lowest

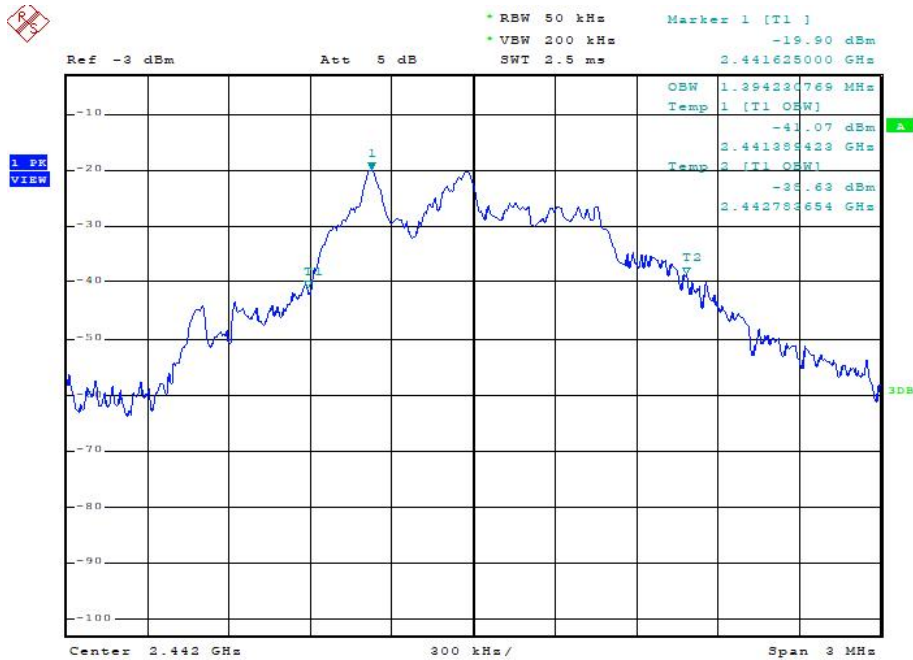




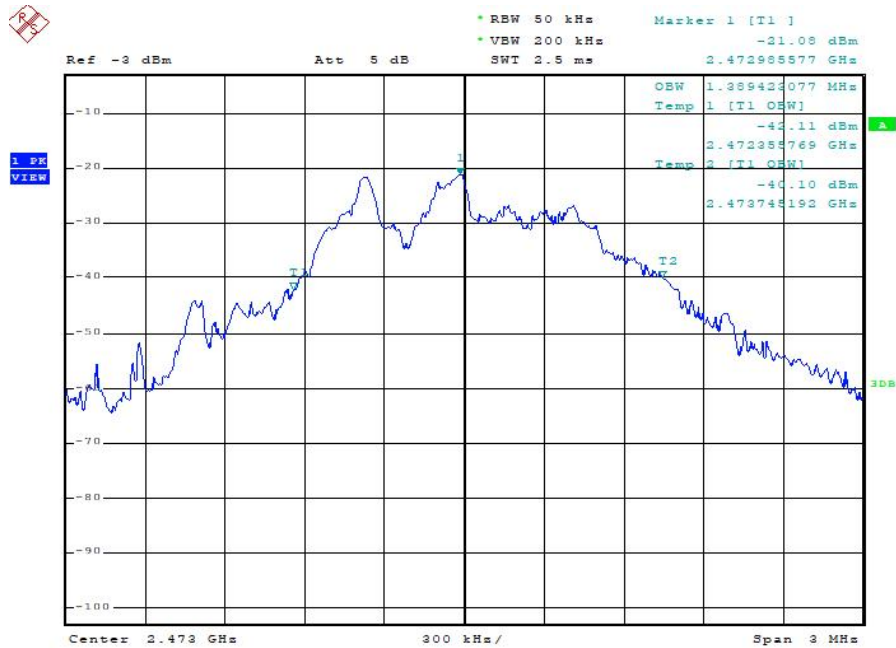
BUREAU VERITAS

TEST REPORT NUMBER: (8523)067-0096

Test channel: Middle



Test channel: Highest





TEST REPORT NUMBER: (8523)067-0096

5 Photographs

Please refer to the photos Appendix A

5.1 EUT Constructional Details

Please refer to the photos Appendix B

*** END OF REPORT ***