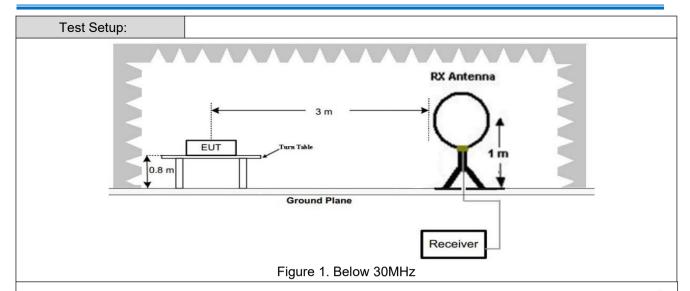
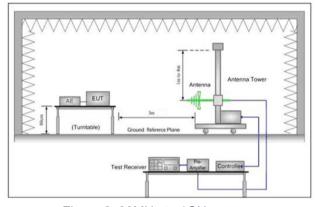


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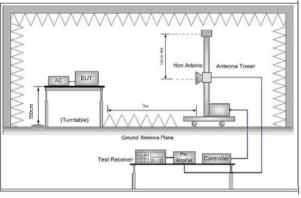


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters

Test Procedure:

- above the ground at a 3 meter semi-anechoic camber. 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 camber. 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.

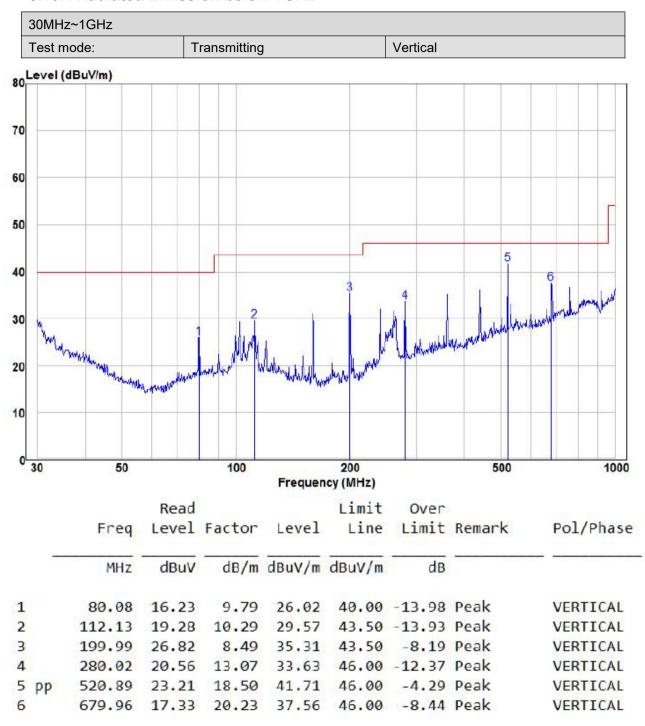


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	 d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 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 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. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case.
	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case
	For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass



5.10.1 Radiated Emission below 1GHz



Remark:

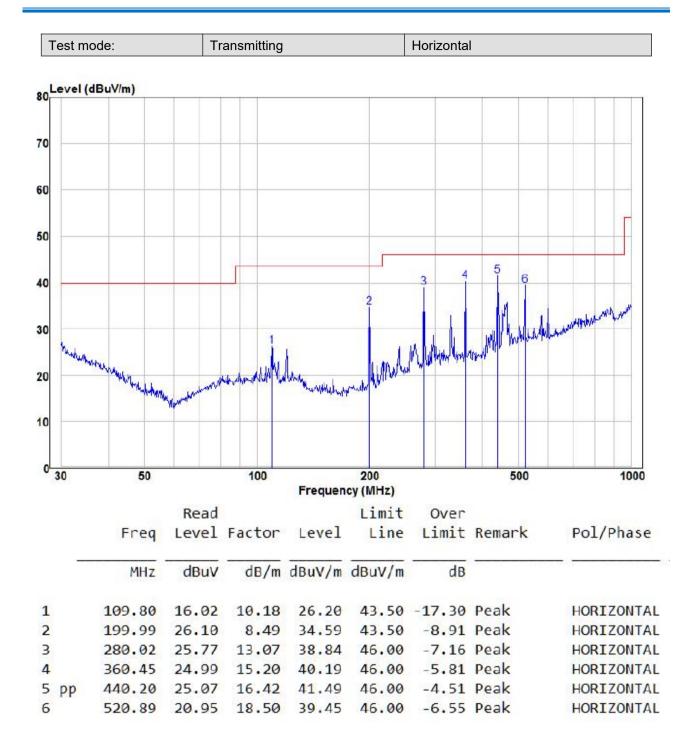
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.





Remark:

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

Factor = Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



5.10.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK(DH	5)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	55.47	-9.2	46.27	74	-27.73	Peak	Н
2400	56.79	-9.39	47.40	74	-26.60	Peak	Н
4804	51.96	-4.33	47.63	74	-26.37	Peak	Н
7206	50.50	1.01	51.51	74	-22.49	Peak	Н
2390	55.48	-9.2	46.28	74	-27.72	Peak	V
2400	56.90	-9.39	47.51	74	-26.49	Peak	V
4804	52.73	-4.33	48.40	74	-25.60	Peak	V
7206	48.25	1.01	49.26	74	-24.74	Peak	V

Worse case mode:		GFSK(DH	5)	Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	53.19	-4.11	49.08	74	-24.92	peak	Н
7323	49.59	1.51	51.10	74	-22.90	peak	Н
4882	52.39	-4.11	48.28	74	-25.72	peak	V
7323	50.54	1.51	52.05	74	-21.95	peak	V

Worse case	Worse case mode:		Vorse case mode: GFSK(DH5)		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	
2483.5	56.34	-9.29	47.05	74	-26.95	Peak	Н	
4960	53.08	-4.04	49.04	74	-24.96	Peak	Н	
7440	50.42	1.57	51.99	74	-22.01	Peak	Н	
2483.5	54.40	-9.29	45.11	74	-28.89	Peak	V	
4960	50.37	-4.04	46.33	74	-27.67	Peak	V	
7440	50.17	1.57	51.74	74	-22.26	Peak	V	





Worse case mode:		π /4DQPS	K (2DH5)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	55.04	-9.2	45.84	74	-28.16	Peak	Н
2400	54.85	-9.39	45.46	74	-28.54	Peak	Н
4804	52.31	-4.33	47.98	74	-26.02	Peak	Н
7206	50.68	1.01	51.69	74	-22.31	Peak	Н
2390	53.93	-9.2	44.73	74	-29.27	Peak	V
2400	56.59	-9.39	47.20	74	-26.80	Peak	V
4804	52.96	-4.33	48.63	74	-25.37	Peak	V
7206	48.35	1.01	49.36	74	-24.64	Peak	V

Worse case	Worse case mode:		π /4DQPSK (2DH5)		Test channel: M		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	51.70	-4.11	47.59	74	-26.41	peak	Н
7323	48.37	1.51	49.88	74	-24.12	peak	Н
4882	53.19	-4.11	49.08	74	-24.92	peak	V
7323	50.90	1.51	52.41	74	-21.59	peak	V

Worse case	mode:	π /4DQPSK (2DH5)		Test chann	el:	Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.07	-9.29	46.78	74	-27.22	Peak	Н
4960	50.82	-4.04	46.78	74	-27.22	Peak	Н
7440	51.09	1.57	52.66	74	-21.34	Peak	Н
2483.5	54.92	-9.29	45.63	74	-28.37	Peak	V
4960	50.43	-4.04	46.39	74	-27.61	Peak	V
7440	50.02	1.57	51.59	74	-22.41	Peak	V



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Worse case mode:		8DPSK (3D	DH5)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.11	-9.2	44.91	74	-29.09	Peak	Н
2400	55.35	-9.39	45.96	74	-28.04	Peak	Н
4804	53.78	-4.33	49.45	74	-24.55	Peak	Н
7206	50.58	1.01	51.59	74	-22.41	Peak	Н
2390	53.45	-9.2	44.25	74	-29.75	Peak	V
2400	55.51	-9.39	46.12	74	-27.88	Peak	V
4804	55.04	-4.33	50.71	74	-23.29	Peak	V
7206	50.52	1.01	51.53	74	-22.47	Peak	V

Worse case	se case mode: 80		8DPSK (3DH5)		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	52.76	-4.11	48.65	74	-25.35	peak	Н
7323	50.73	1.51	52.24	74	-21.76	peak	Н
4882	53.74	-4.11	49.63	74	-24.37	peak	V
7323	48.69	1.51	50.20	74	-23.80	peak	V

Worse case	mode:	8DPSK (3DH5)		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
2483.5	54.68	-9.29	45.39	74	-28.61	Peak	Н
4960	51.17	-4.04	47.13	74	-26.87	Peak	Н
7440	50.32	1.57	51.89	74	-22.11	Peak	Н
2483.5	54.12	-9.29	44.83	74	-29.17	Peak	V
4960	51.00	-4.04	46.96	74	-27.04	Peak	V
7440	50.26	1.57	51.83	74	-22.17	Peak	V

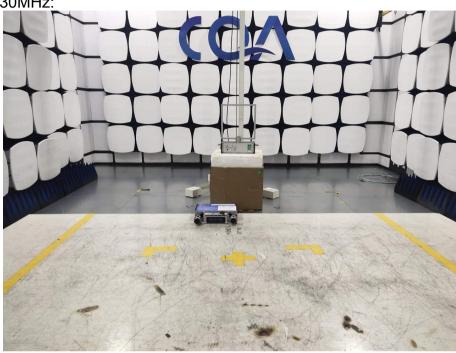
Remark:

- 1) 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
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6 Photographs - EUT Test Setup

6.1 Radiated Emission

9KHz~30MHz:



30MHz~1GHz:

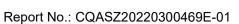






Above 1GHz:







7 Photographs - EUT Constructional Details

























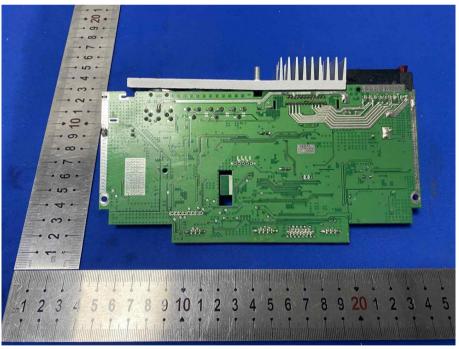












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