



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 85)

성적서 번호 Report No.		ICRT-TR-E210982-2C	
신청자 Client	기관명 Name	Elproma Elektronika Sp. z o.o.	
	주 소 Address	ul. Duńska 2A, 05-152 Czosnów	
시험대상품목 Sample description		TOLOGG	
모델명 Type designation		TOLOGG-3.3-GL	
정 격 Ratings		(DC 5 – 47) V	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, 113, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		2021. 04. 22 ~ 2021. 07. 09	
시험방법/항목 Test Method/Item		FCC 47 CFR Part 15 Subpart B	
시험결과 Test Results		Refer to summary of test results	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name	이수호 (서명) Lee, Suho (Signature)	성 명 Name
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2021. 09. 23 주식회사 아이씨알 대표이사 The head of INTERNATIONAL CERTIFICATION REGISTRAR			



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1. Applicant Information

1.1 Applicant

Applicant : Elproma Elektronika Sp. z o.o.
Address : ul. Duńska 2A, 05-152 Czosnów
Contact person : Mr. Piotr Wójcik
Telephone No. : 48227517680
Facsimile No. : -
E-mail : p.wojcik@elpromaelectronics.com

1.2 Manufacture

Manufacture : Elproma Elektronika Sp. z o.o.
Address : ul. Duńska 2A, 05-152 Czosnów
Contact person : Mr. Piotr Wójcik
Telephone No. : 48227517680
Facsimile No. : -
E-mail : p.wojcik@elpromaelectronics.com

2. Laboratory

2.1 Information

Laboratory : ICR Co., Ltd
Address : 112, 113, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si,
Gyeonggi-do, Korea
Telephone No. : +82-2-6351-9001
Facsimile No. : +82-2-6351-9007

KOLAS No. : KT652
RRA No. : KR0165

3. Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E210982-0A	2021. 04. 27	-	-
ICRT-TR-E210982-1A	2021. 07. 14	Add operating modes for test	Refer to 4.4
ICRT-TR-E210982-2A	2021. 08. 10	Add Conducted Emission test	Refer to 7.2
ICRT-TR-E210982-2B	2021. 09. 03	ADD FCC ID, Delete Test photo	Refer to 4.7
ICRT-TR-E210982-2C	2021. 09. 23	ADD FCC ID	Refer to 4.7



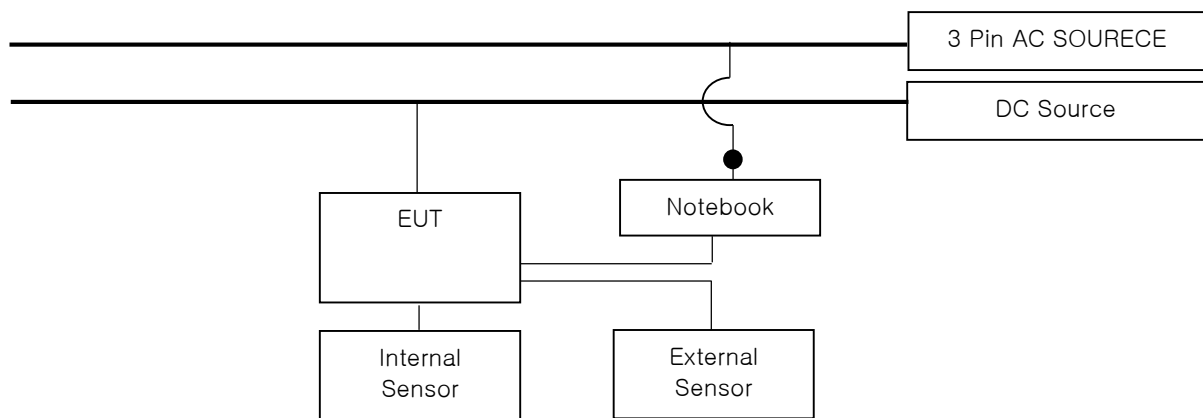
4. List of EUT and Accessory

4.1 Used equipment

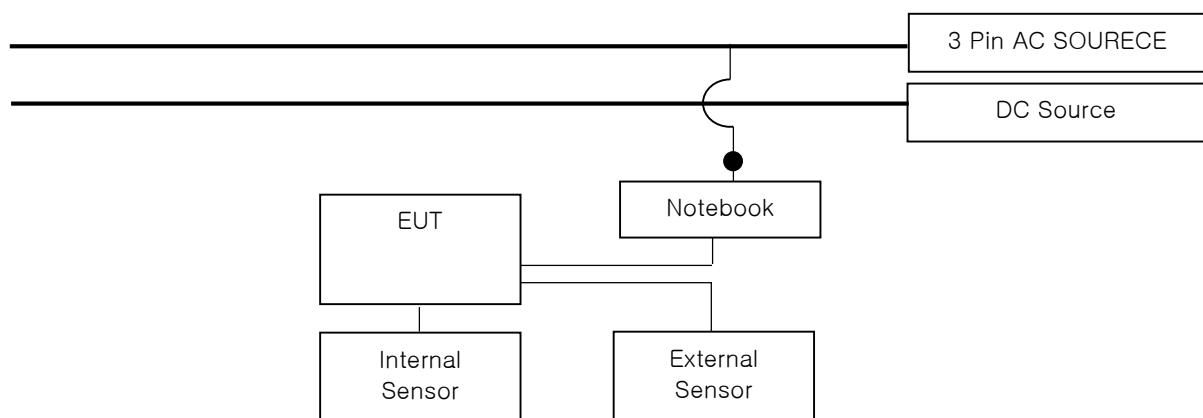
Description	Model	Manufacturer	Remark
TOLOGG	TOLOGG-3.3-GL	Elpoma Elektronika Sp. z o.o.	EUT
Internal sensor	-	-	EUT
External sensor	-	-	EUT
Notebook	NT300ESK	SAMSUNG	AE
Notebook adapter	A13-040N2A	SAMSUNG	AE
Wideband Radio Communication	CMW500	R&S	AE

4.2 Test Configuration

[MODE 1]



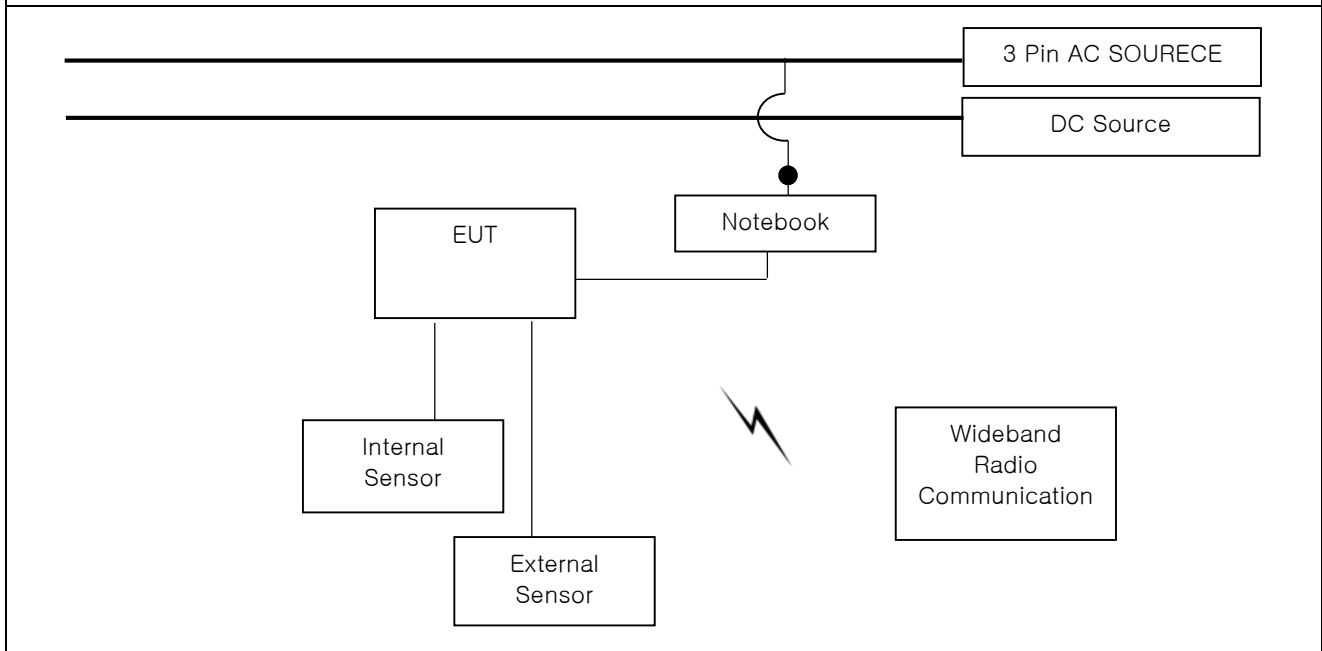
[MODE 2]



— : Signal line — : Power line △ : GROUND ● : Adapter



[MODE 3 ~ 11]



—— : Signal line ——— : Power line △ : GROUND ● : Adapter

4.3 Cable List

Equipment	Port	Equipment	Port	Length (m)	Shielded
EUT (MODE 1)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	DC IN	DC SOURCE	DC OUT	1.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
EUT (MODE 2)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
EUT (MODE 3 ~ MODE 11)	Internal sensor in	Internal sensor	-	2.0	Unshielded
	External sensor in	External sensor	-	0.5	Unshielded
	Door sensor port	Notebook	USB	1.5	Unshielded
	RF	Wideband Radio Communication	-	-	Unshielded



4.4 Mode of Operating during the test

- **MODE 1** : The EUT is connected as shown in the layout and tested in a charged state.
- **MODE 2** : The EUT is connected as shown in the layout and the temperature data is checked with a Notebook.
- **MODE 3** : EUT is connected as shown in the layout diagram and tested under the condition that GSM 850 communication is confirmed.
- **MODE 4** : EUT is connected as shown in the layout diagram and tested under the condition that EGSM 900 communication is confirmed.
- **MODE 5** : EUT is connected as shown in the layout diagram and tested under the condition that DCS 1800 communication is confirmed.
- **MODE 6** : EUT is connected as shown in the layout diagram and tested under the condition that PCS 1900 communication is confirmed.
- **MODE 7** : EUT is connected as shown in the layout diagram and tested under the condition that UMTS 800 communication is confirmed.
- **MODE 8** : EUT is connected as shown in the layout diagram and tested under the condition that UMTS 850 communication is confirmed.
- **MODE 9** : EUT is connected as shown in the layout diagram and tested under the condition that UMTS 900 communication is confirmed.
- **MODE 10** : EUT is connected as shown in the layout diagram and tested under the condition that UMTS 1900 communication is confirmed.
- **MODE 11** : EUT is connected as shown in the layout diagram and tested under the condition that UMTS 2100 communication is confirmed.

4.5 EUT Modifications

- None.

4.6 Family Model Name

- None.

4.7 FCC ID : 2A277TOLOGG33



5. Summary of test result

5.1 Test Summary

Standard	Test items	Applied	Results
FCC Part 15.109 (Class B)	Radiated disturbance	☒	Pass
FCC Part 15.107 (Class B)	Conducted disturbance	☒	Pass

* The data in this test report are traceable to the national or international standards.

Frequency range to be scanned:

0.15 MHz to 30 MHz as Conducted measurement

5th harmonic of the highest frequency or 40 GHz, whichever is lower as Radiated measurement

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz ~ 30 MHz and 120 kHz in the frequency 30 MHz ~ 1 000 MHz.

Measured by the CISPR Peak function Bandwidth is 1 MHz in the frequency 1 GHz ~ 40 GHz.



6. Test Description

6.1 Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

6.2 Test Procedure

6.2.1 Radiated Disturbance Measurements – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m/10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors(120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- Trilog antenna are used as Broadband antenna.
- The Trilog antenna is used in the frequency range of 30 ~ 1 000MHz, the Horn antenna is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out by a ICR operator as manual operation.
- searching for some of High disturbance frequency points than the other points with the following settings;
bandwidth 100 kHz, frequency range 10 MHz between 30 MHz and 300 MHz and frequency range 50 MHz between 300 MHz and 1 GHz.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m ~ 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

6.2.2 Radiated Disturbance Measurements – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (1 MHz bandwidth) and an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- HORN ANTENNA are used as WIDEBAND ANTENNA.
- The HORN ANTENNA is used in the frequency range of 1 GHz ~ 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.



- Measurement is carried out by a ICR operator as manual operation.
 - searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
 - setting the height of the antenna with the maximum level of the disturbance wave from 1 m
 - reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
 - measuring to vertical and horizontal polarization.
 - calculating the measurement result with the following formula or equation:
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

6.2.3 Conducted Disturbance Measurements

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance (50 Ω /50 μ H) as defined in ANSI C 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector. (Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- A remote switch is used for changing phases between Line (L) and Neutral (N).
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
 - detecting the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 1 kHz and the frequency range from 150 kHz ~ 1 MHz, 1 MHz ~ 5 MHz and 5 MHz ~ 30 MHz.
 - searching the maximum frequency point of the disturbance wave in each frequency range.
 - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
- calculating the measurement result with the following formula or equation.
(Result = Reading + Corr)
(Margin = Limit - Result)



7. EMISSION

7.1 Radiated disturbance

Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

Test method	: FCC Part 15.109, Class B
Test Date	: 2021. 04. 22 ~ 2021. 07. 09 (Below 1 GHz)
	: 2021. 04. 23 ~ 2021. 07. 09 (Above 1 GHz)
Temperature, Humidity	: 19.3 °C ~ 20.4 °C, 33.4 % R.H. ~ 34.4 % R.H. (Below 1 GHz)
	: 19.5 °C ~ 20.6 °C, 33.5 % R.H. ~ 34.5 % R.H. (Above 1 GHz)
Measurement Distance	: 3 m
Measurement Frequency range	: 30 MHz ~ 6 GHz
Measurement RBW	: 120 kHz, 1 000 kHz
Test mode	: MODE 1, MODE 2, MODE 3 ~ 11
Result	: Pass

A sample calculation:

- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.)

- Emission Level = meter reading + Corr

- Sample calculation; MODE 1

- Below 1 GHz (Quasi-Peak)

At Frequency : 31.843 MHz Result = Reading + Corr = 60.64 (dBμV/m) + (-23.4) dB = 37.24 dB(μV/m)

- Above 1 GHz (CISPR-Average)

At Frequency : 3 187.900 MHz Result = Reading + Corr = 33.95 (dBμV/m) + (-8.6) dB = 25.35 dB(μV/m)



Limits of below 1 GHz - CLASS A

Frequency Range (MHz)	Field strength (μV/m)	Distance (m)
30 ~ 88	90	10
88 ~ 216	150	
216 ~ 960	210	
Above 960	300	

Limits of below 1 GHz - CLASS B

Frequency Range (MHz)	Field strength (μV/m)	Distance (m)
30 ~ 88	100	3
88 ~ 216	150	
216 ~ 960	200	
Above 960	500	

Used equipments:

- Below 1 GHz

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☐	EMI Test Receiver	ESR7	R&S	101724	2022. 04. 14
☒	TRILOG BROAD BAND ANTENNA	VULB 9162	SCHWARZBECK	142	2023. 02. 03
☐	FERRITE CLAMP	EZ-24	R&S	100262	2021. 12. 07
☒	RF Pre Amplifier	SCU 08	R&S	100745	2022. 04. 14
☐	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63105	2022. 02. 25
☒	EMI Test Receiver	ESR26	R&S	101462	2022. 04. 14
☐	LOOP Antenna	HFH2-Z2	R&S	100506	2021. 06. 27
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63107	2022. 02. 25

- Above 1 GHz

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☒	EMI Test Receiver	ESR26	R&S	101462	2022. 04. 14
☒	HORN ANTENNA (KOLAS)	HF907	R&S	102556	2021. 08. 21
☒	HORN ANTENNA	LB-42-10-C-KF	AINFO Inc.	J202024625	2022. 03. 04
☒	RF Pre Amplifier	SCU 18	R&S	102342	2022. 04. 14
☒	RF Pre Amplifier	AMF-4F-18265-35-8P-1	MITEQ	771846	2022. 03. 04
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63106	2022. 02. 25

Test Software:

Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.00

Measurement Data:

- Refer to the Next page.

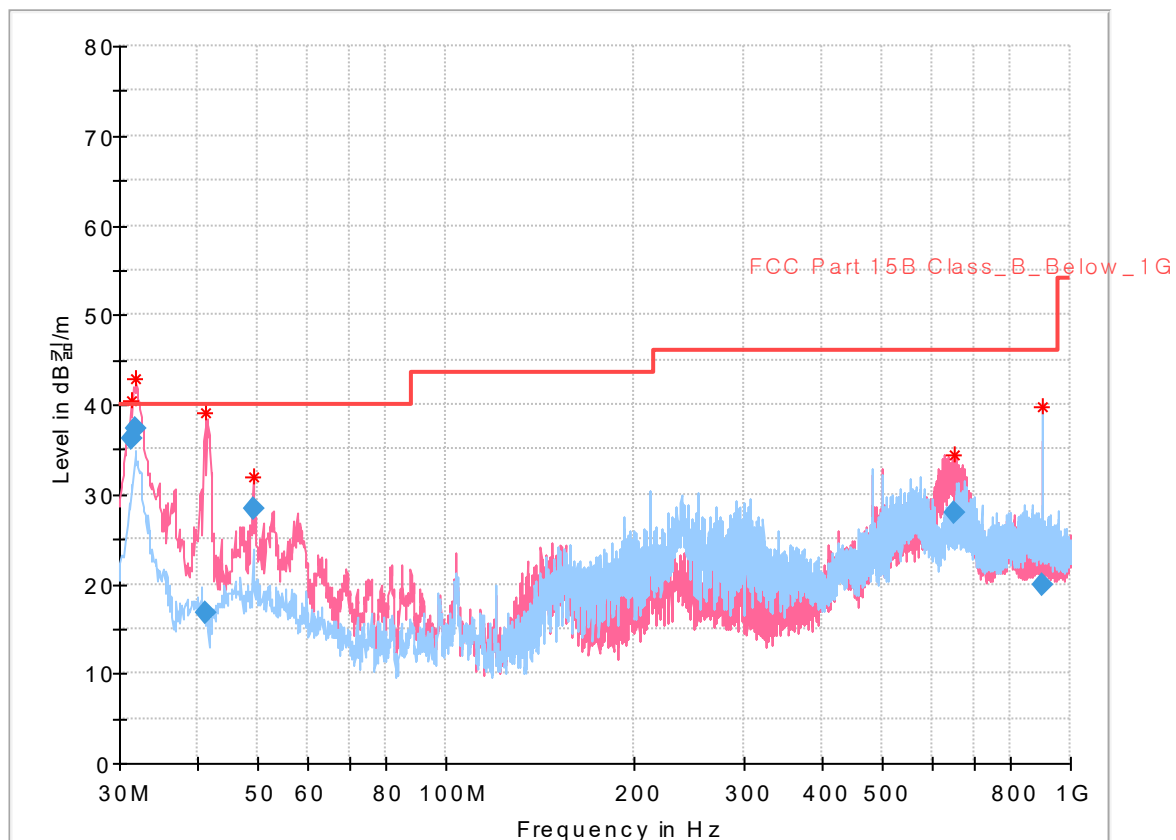


DATA (Below 1 GHz : MODE 1)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 1



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	36.11	40.00	3.89	1000.0	120.000	100.0	V	64.0	-23.3
31.843	37.24	40.00	2.76	1000.0	120.000	100.0	V	274.0	-23.4
41.252	16.76	40.00	23.24	1000.0	120.000	400.0	V	186.0	-19.9
49.109	28.46	40.00	11.54	1000.0	120.000	100.0	V	212.0	-19.1
651.188	27.94	46.00	18.06	1000.0	120.000	100.0	V	247.0	-10.9
900.090	19.89	46.00	26.11	1000.0	120.000	100.0	H	227.0	-7.1

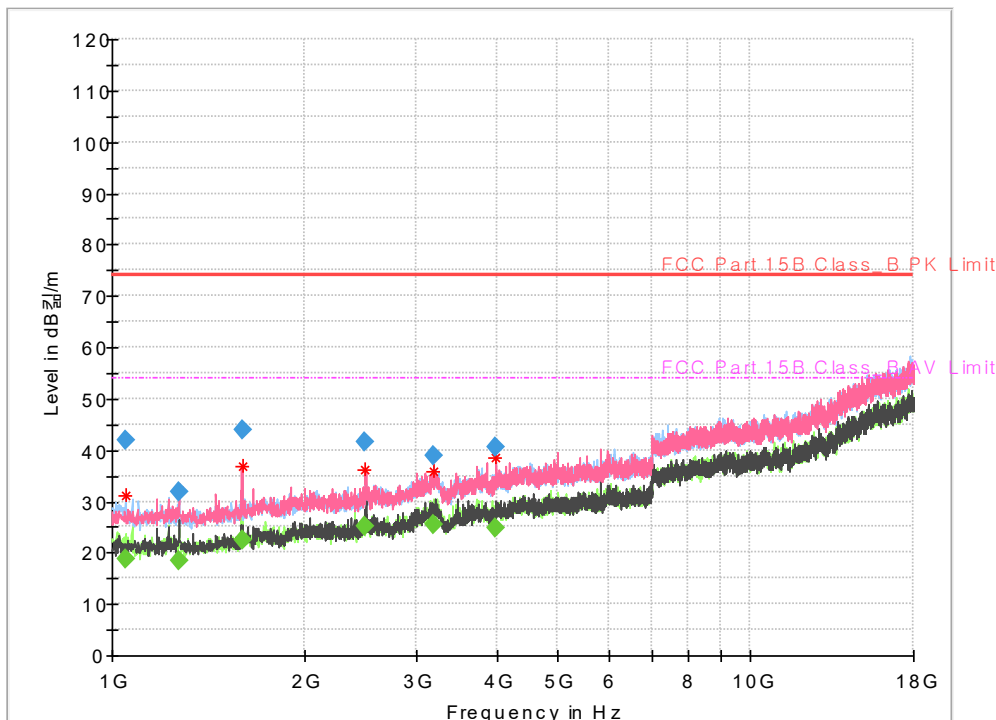


DATA (ABOVE 1 GHz : MODE 1)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 1



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1049.300	41.84	---	74.00	32.16	3000.0	1000.000	200.0	H	92.0	-18.9
1049.300	---	18.81	54.00	35.19	3000.0	1000.000	200.0	H	92.0	-18.9
1273.700	---	18.43	54.00	35.57	3000.0	1000.000	300.0	V	91.0	-18.3
1273.700	31.82	---	74.00	42.18	3000.0	1000.000	300.0	V	91.0	-18.3
1598.400	43.97	---	74.00	30.03	3000.0	1000.000	300.0	V	0.0	-16.3
1598.400	---	22.44	54.00	31.56	3000.0	1000.000	300.0	V	0.0	-16.3
2494.300	41.71	---	74.00	32.29	3000.0	1000.000	200.0	V	28.0	-12.6
2494.300	---	25.12	54.00	28.88	3000.0	1000.000	200.0	V	28.0	-12.6
3187.900	38.94	---	74.00	35.06	3000.0	1000.000	99.8	V	193.0	-8.6
3187.900	---	25.35	54.00	28.65	3000.0	1000.000	99.8	V	193.0	-8.6
3997.100	---	24.97	54.00	29.03	3000.0	1000.000	300.0	V	124.0	-7.2
3997.100	40.56	---	74.00	33.44	3000.0	1000.000	300.0	V	124.0	-7.2

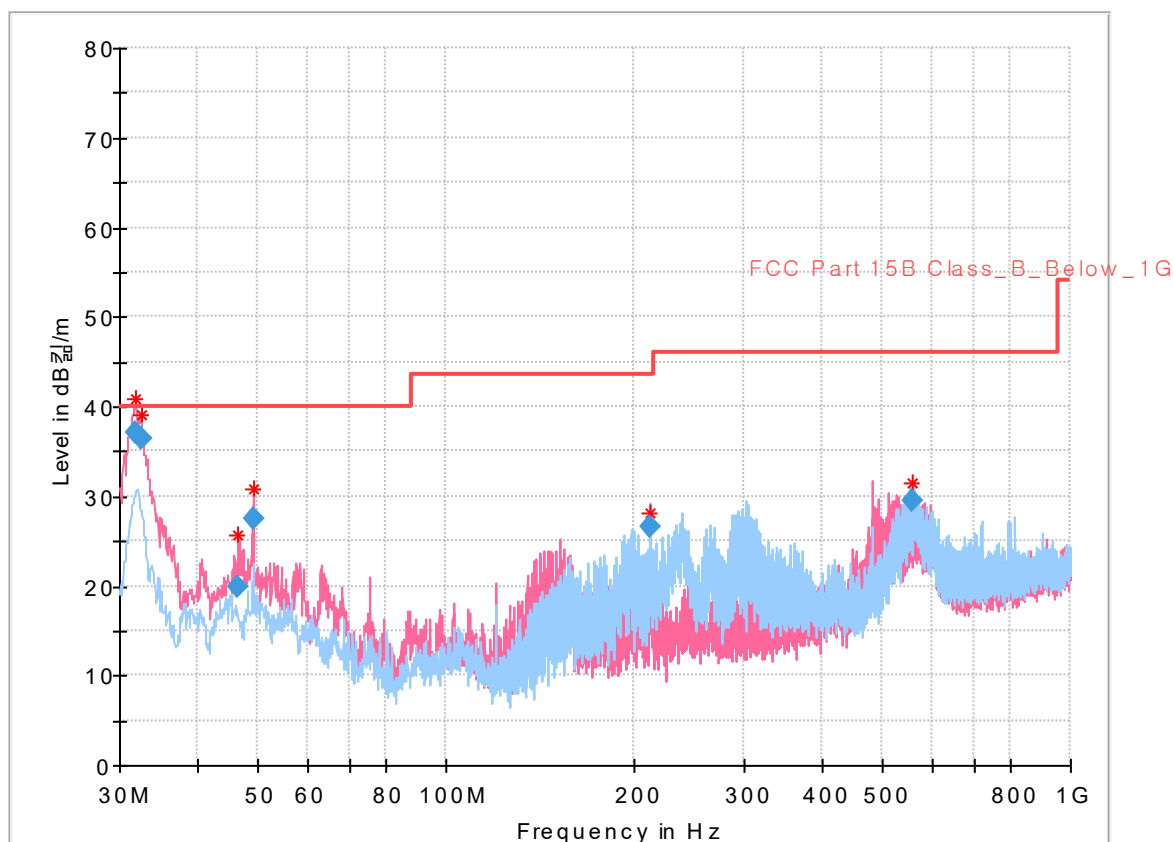


DATA (Below 1 GHz : MODE 2)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 2



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	37.02	40.00	2.98	1000.0	120.000	100.1	V	248.0	-23.4
32.425	36.48	40.00	3.52	1000.0	120.000	100.1	V	185.0	-23.1
46.490	19.87	40.00	20.13	1000.0	120.000	100.1	V	142.0	-19.0
49.109	27.45	40.00	12.55	1000.0	120.000	100.1	V	284.0	-19.1
211.875	26.53	43.50	16.97	1000.0	120.000	100.1	H	110.0	-21.1
557.971	29.46	46.00	16.54	1000.0	120.000	400.0	H	65.0	-12.1

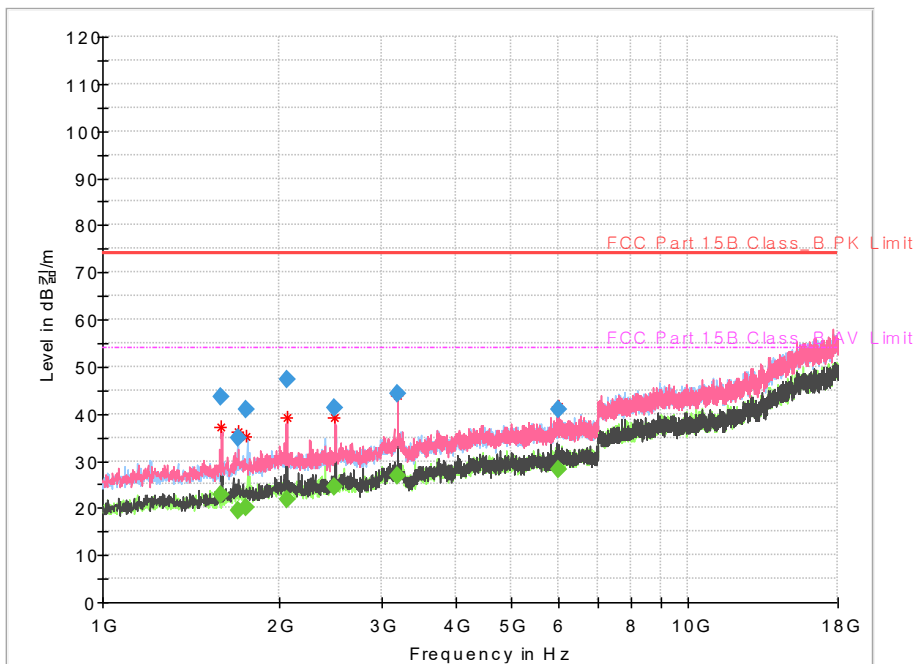


DATA (Above 1 GHz : MODE 2)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 2



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1595.518	43.43	---	74.00	30.57	3000.0	1000.000	300.0	V	0.0	-16.4
1595.518	---	22.80	54.00	31.20	3000.0	1000.000	300.0	V	0.0	-16.4
1704.138	34.70	---	74.00	39.30	3000.0	1000.000	300.0	H	126.0	-15.6
1704.138	---	19.44	54.00	34.56	3000.0	1000.000	300.0	H	126.0	-15.6
1763.482	---	20.15	54.00	33.85	3000.0	1000.000	199.6	H	61.0	-15.4
1763.482	41.02	---	74.00	32.98	3000.0	1000.000	199.6	H	61.0	-15.4
2061.731	47.35	---	74.00	26.65	3000.0	1000.000	300.0	V	30.0	-13.5
2061.731	---	21.77	54.00	32.23	3000.0	1000.000	300.0	V	30.0	-13.5
2488.829	41.37	---	74.00	32.63	3000.0	1000.000	199.6	V	30.0	-12.7
2488.829	---	24.42	54.00	29.58	3000.0	1000.000	199.6	V	30.0	-12.7
3185.331	44.10	---	74.00	29.90	3000.0	1000.000	300.0	V	355.0	-8.6
3185.331	---	26.72	54.00	27.28	3000.0	1000.000	300.0	V	355.0	-8.6
6000.461	40.91	---	74.00	33.09	3000.0	1000.000	199.6	V	0.0	-2.5
6000.461	---	28.07	54.00	25.93	3000.0	1000.000	199.6	V	0.0	-2.5



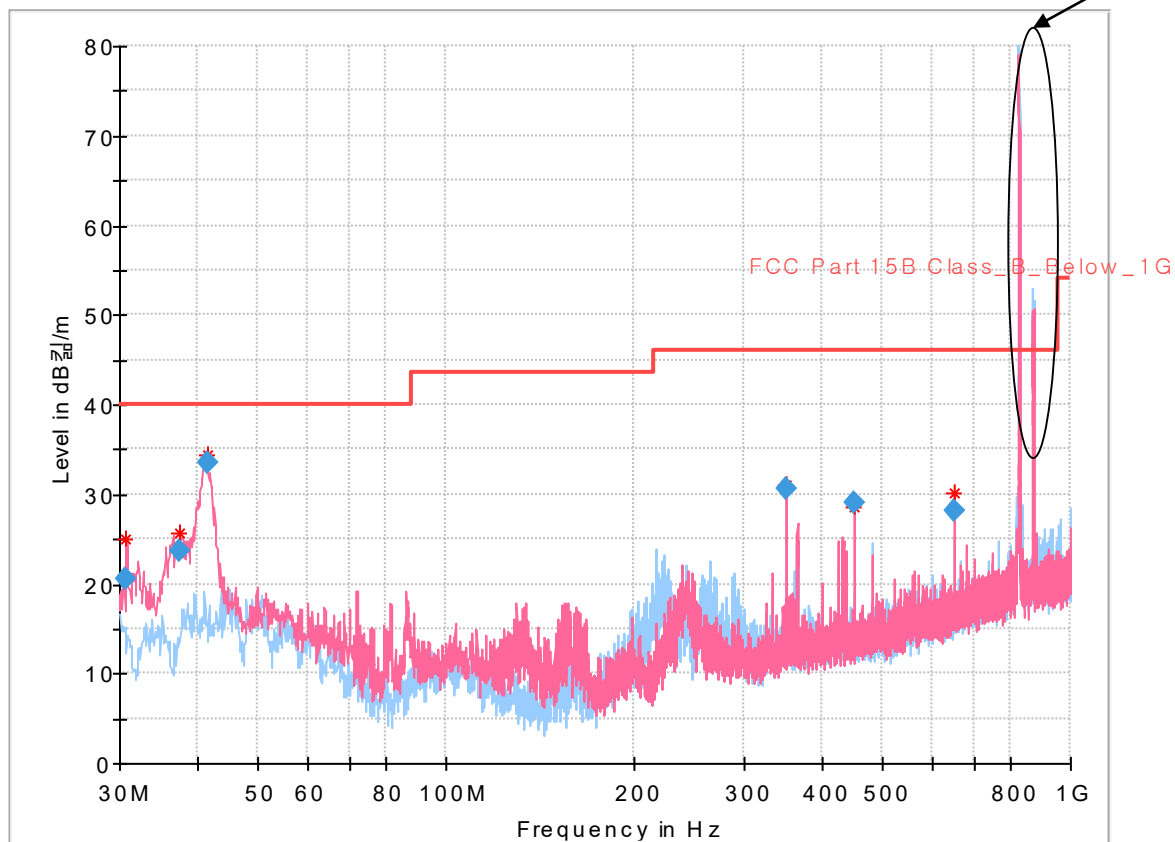
DATA (Below 1 GHz : MODE 3_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 3_LOW

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.776	20.56	40.00	19.44	1000.0	120.000	100.0	V	333.0	-23.2
37.469	23.69	40.00	16.31	1000.0	120.000	100.0	V	252.0	-21.3
41.446	33.63	40.00	6.37	1000.0	120.000	100.0	V	238.0	-19.9
350.003	30.54	46.00	15.46	1000.0	120.000	100.0	V	0.0	-16.1
450.010	29.00	46.00	17.00	1000.0	120.000	100.0	V	129.0	-14.4
650.024	28.22	46.00	17.78	1000.0	120.000	100.0	V	100.0	-11.0



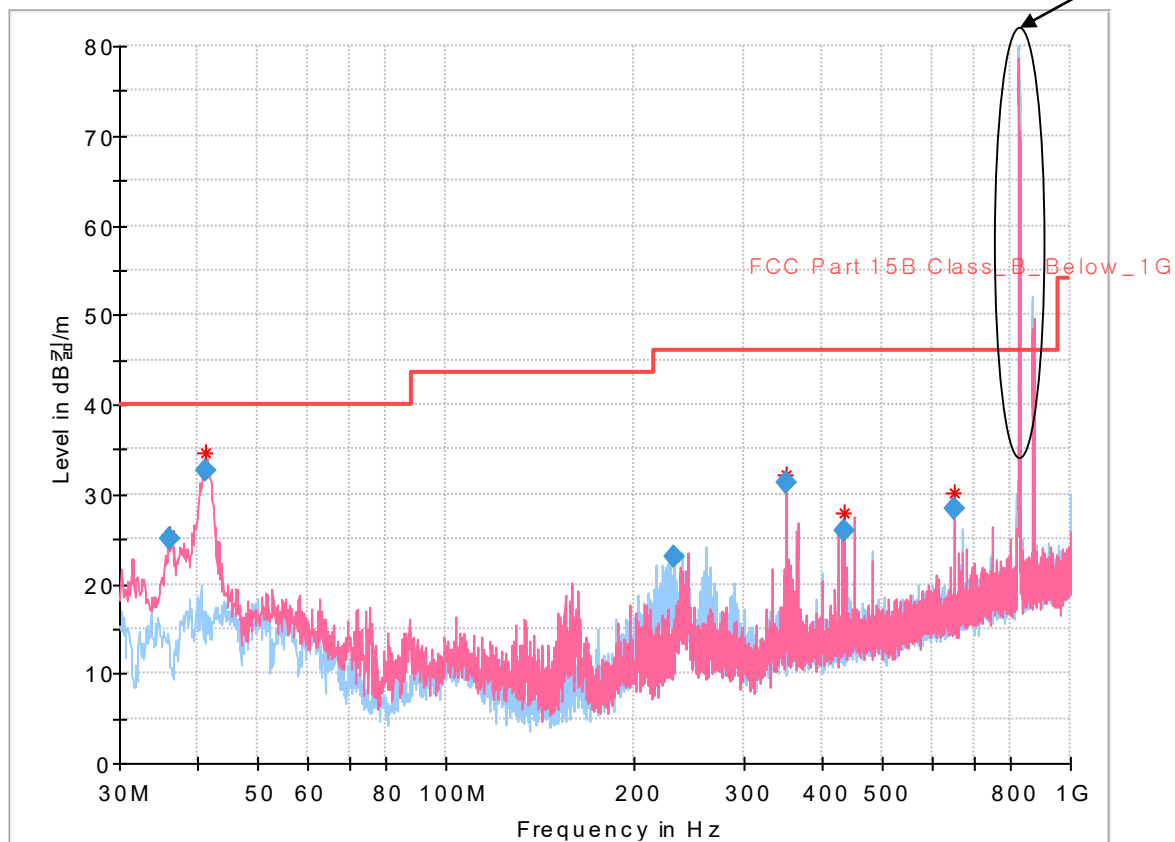
DATA (Below 1 GHz : MODE 3_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 3_MID

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	25.08	40.00	14.92	1000.0	120.000	100.0	V	333.0	-22.2
41.155	32.73	40.00	7.27	1000.0	120.000	100.0	V	7.0	-20.1
232.536	22.97	46.00	23.03	1000.0	120.000	100.0	H	250.0	-19.8
350.003	31.18	46.00	14.82	1000.0	120.000	100.0	V	32.0	-16.1
433.035	25.95	46.00	20.05	1000.0	120.000	100.0	V	144.0	-14.8
650.024	28.30	46.00	17.70	1000.0	120.000	100.0	V	132.0	-11.0



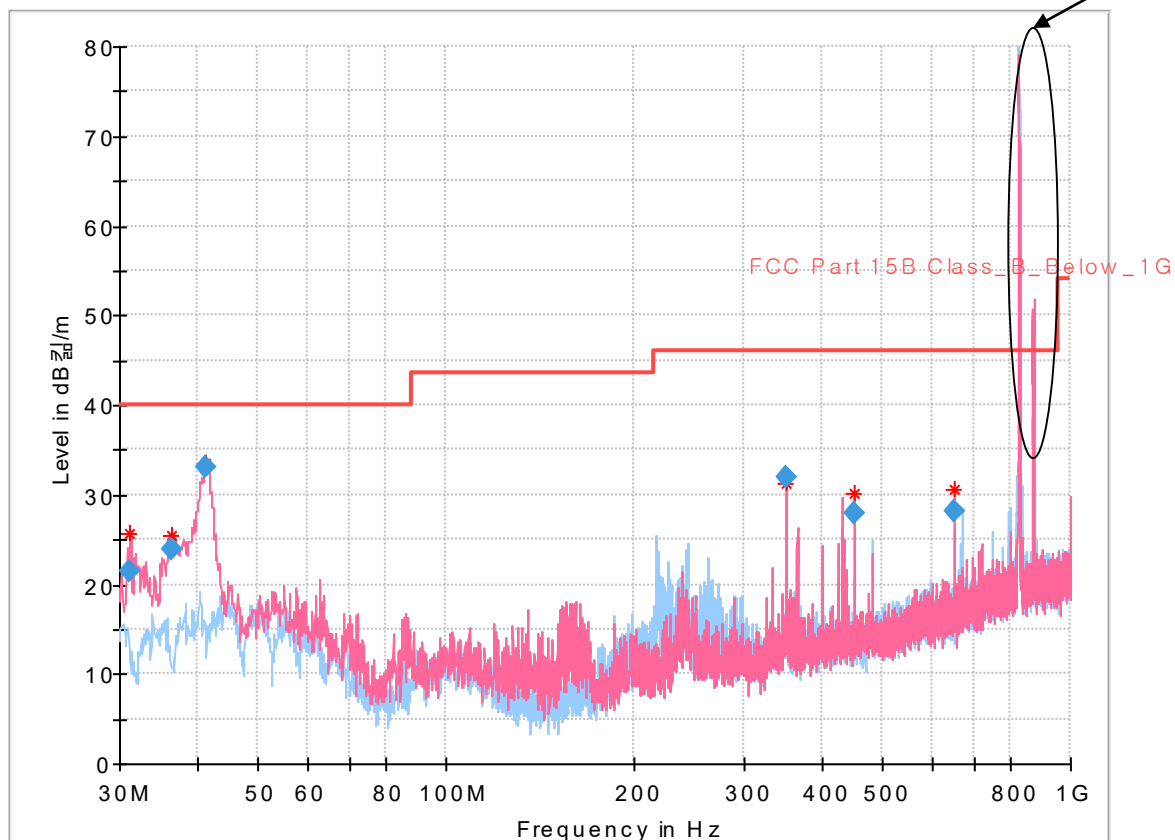
DATA (Below 1 GHz : MODE 3_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 3_HIGH

GSM 850
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.164	21.54	40.00	18.46	1000.0	120.000	100.0	V	327.0	-23.4
36.402	23.87	40.00	16.13	1000.0	120.000	100.0	V	241.0	-22.1
41.155	33.18	40.00	6.82	1000.0	120.000	100.0	V	186.0	-20.1
350.003	31.98	46.00	14.02	1000.0	120.000	100.0	V	24.0	-16.1
450.010	27.87	46.00	18.13	1000.0	120.000	100.0	V	145.0	-14.4
650.024	28.25	46.00	17.75	1000.0	120.000	100.0	V	132.0	-11.0

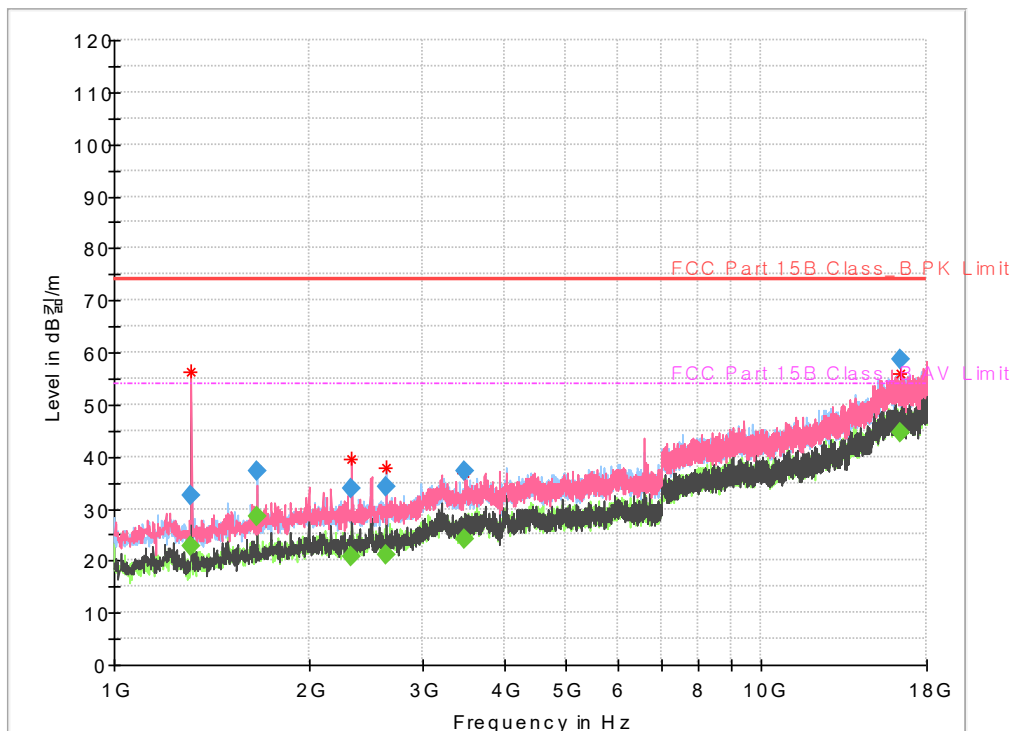


DATA (Above 1 GHz : MODE 3_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 3_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	---	22.84	54.00	31.16	1000.0	1000.000	99.9	V	287.0	-18.7
1314.500	32.63	---	74.00	41.37	1000.0	1000.000	99.9	V	287.0	-18.7
1664.700	37.23	---	74.00	36.77	1000.0	1000.000	99.9	H	117.0	-15.9
1664.700	---	28.59	54.00	25.41	1000.0	1000.000	99.9	H	117.0	-15.9
2329.400	33.69	---	74.00	40.31	1000.0	1000.000	99.9	V	108.0	-13.3
2329.400	---	20.72	54.00	33.28	1000.0	1000.000	99.9	V	108.0	-13.3
2630.300	34.19	---	74.00	39.81	1000.0	1000.000	99.9	H	262.0	-11.7
2630.300	---	21.06	54.00	32.94	1000.0	1000.000	99.9	H	262.0	-11.7
3488.800	---	24.16	54.00	29.84	1000.0	1000.000	99.9	V	177.0	-7.6
3488.800	37.29	---	74.00	36.71	1000.0	1000.000	99.9	V	177.0	-7.6
16436.000	58.54	---	74.00	15.46	1000.0	1000.000	99.9	H	226.0	9.0
16436.000	---	44.43	54.00	9.57	1000.0	1000.000	99.9	H	226.0	9.0

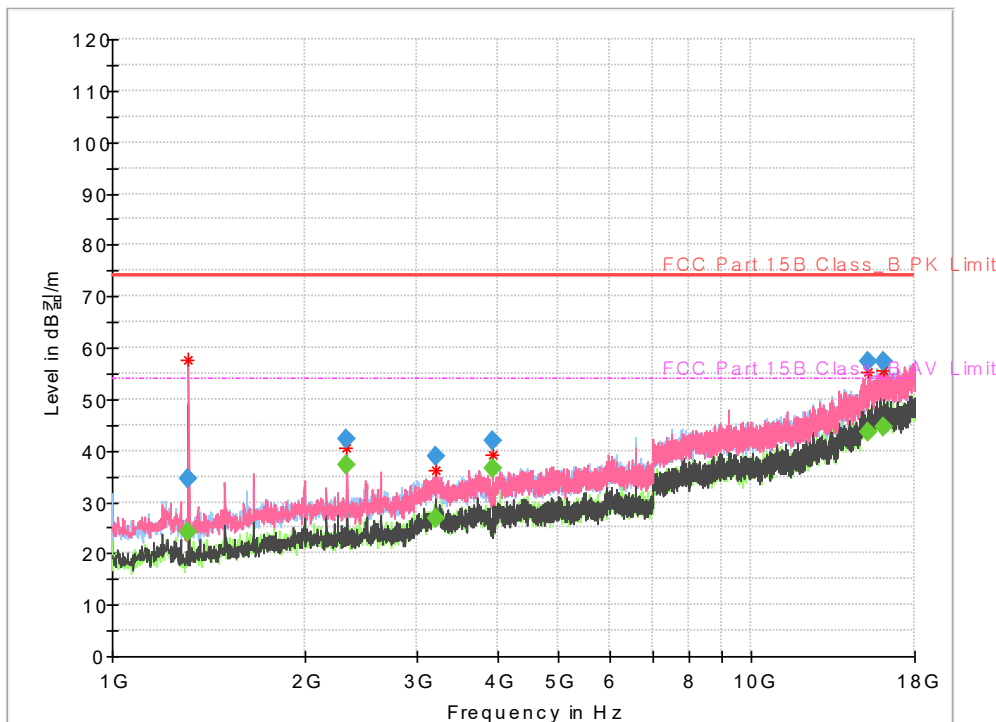


DATA (Above 1 GHz : MODE 3_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 3_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	34.38	---	74.00	39.62	1000.0	1000.000	99.9	V	283.0	-18.7
1314.500	---	24.19	54.00	29.81	1000.0	1000.000	99.9	V	283.0	-18.7
2331.100	42.11	---	74.00	31.89	1000.0	1000.000	99.9	V	107.0	-13.3
2331.100	---	37.25	54.00	16.75	1000.0	1000.000	99.9	V	107.0	-13.3
3199.800	38.93	---	74.00	35.07	1000.0	1000.000	99.9	H	76.0	-8.0
3199.800	---	26.77	54.00	27.23	1000.0	1000.000	99.9	H	76.0	-8.0
3947.800	41.81	---	74.00	32.19	1000.0	1000.000	99.9	V	248.0	-6.6
3947.800	---	36.56	54.00	17.44	1000.0	1000.000	99.9	V	248.0	-6.6
15266.400	57.19	---	74.00	16.81	1000.0	1000.000	99.9	V	4.0	9.1
15266.400	---	43.45	54.00	10.55	1000.0	1000.000	99.9	V	4.0	9.1
16062.000	57.26	---	74.00	16.74	1000.0	1000.000	99.9	V	214.0	9.4
16062.000	---	44.63	54.00	9.37	1000.0	1000.000	99.9	V	214.0	9.4

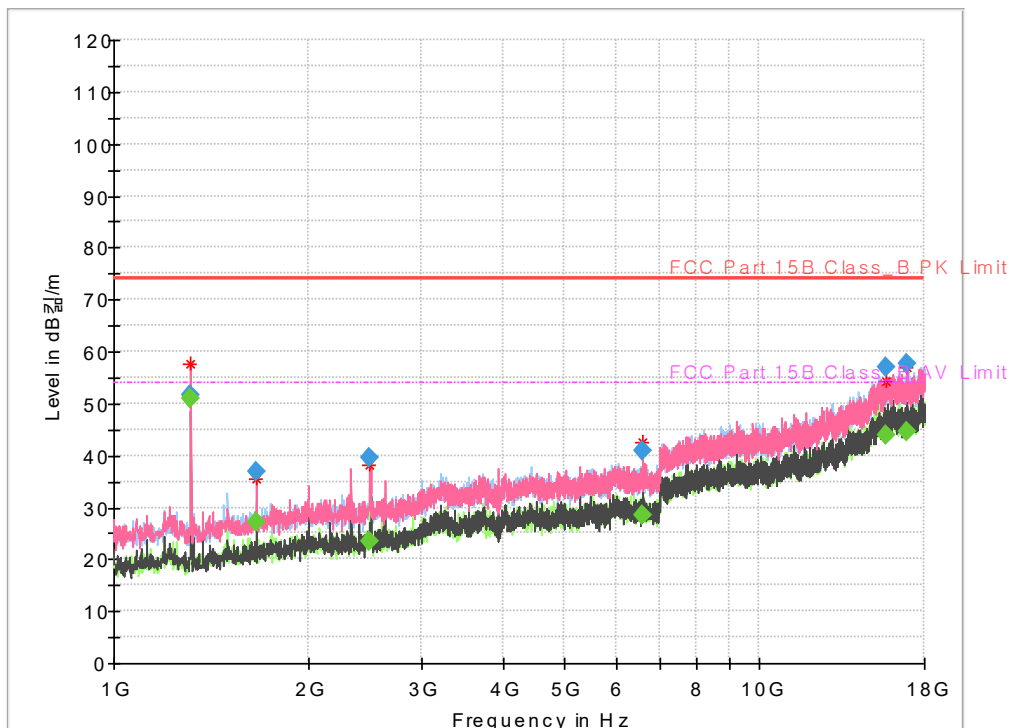


DATA (Above 1 GHz : MODE 3_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 3_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	51.64	---	74.00	22.36	1000.0	1000.000	99.9	V	285.0	-18.6
1316.200	---	50.80	54.00	3.20	1000.0	1000.000	99.9	V	285.0	-18.6
1664.700	36.84	---	74.00	37.16	1000.0	1000.000	99.9	H	116.0	-15.9
1664.700	---	27.25	54.00	26.75	1000.0	1000.000	99.9	H	116.0	-15.9
2492.600	39.70	---	74.00	34.30	1000.0	1000.000	99.9	V	140.0	-12.5
2492.600	---	23.32	54.00	30.68	1000.0	1000.000	99.9	V	140.0	-12.5
6579.400	40.93	---	74.00	33.07	1000.0	1000.000	99.9	H	247.0	-2.3
6579.400	---	28.33	54.00	25.67	1000.0	1000.000	99.9	H	247.0	-2.3
15727.100	---	44.07	54.00	9.93	1000.0	1000.000	99.9	H	247.0	9.0
15727.100	56.84	---	74.00	17.16	1000.0	1000.000	99.9	H	247.0	9.0
16947.700	---	44.42	54.00	9.58	1000.0	1000.000	99.9	H	247.0	9.5
16947.700	57.80	---	74.00	16.20	1000.0	1000.000	99.9	H	247.0	9.5



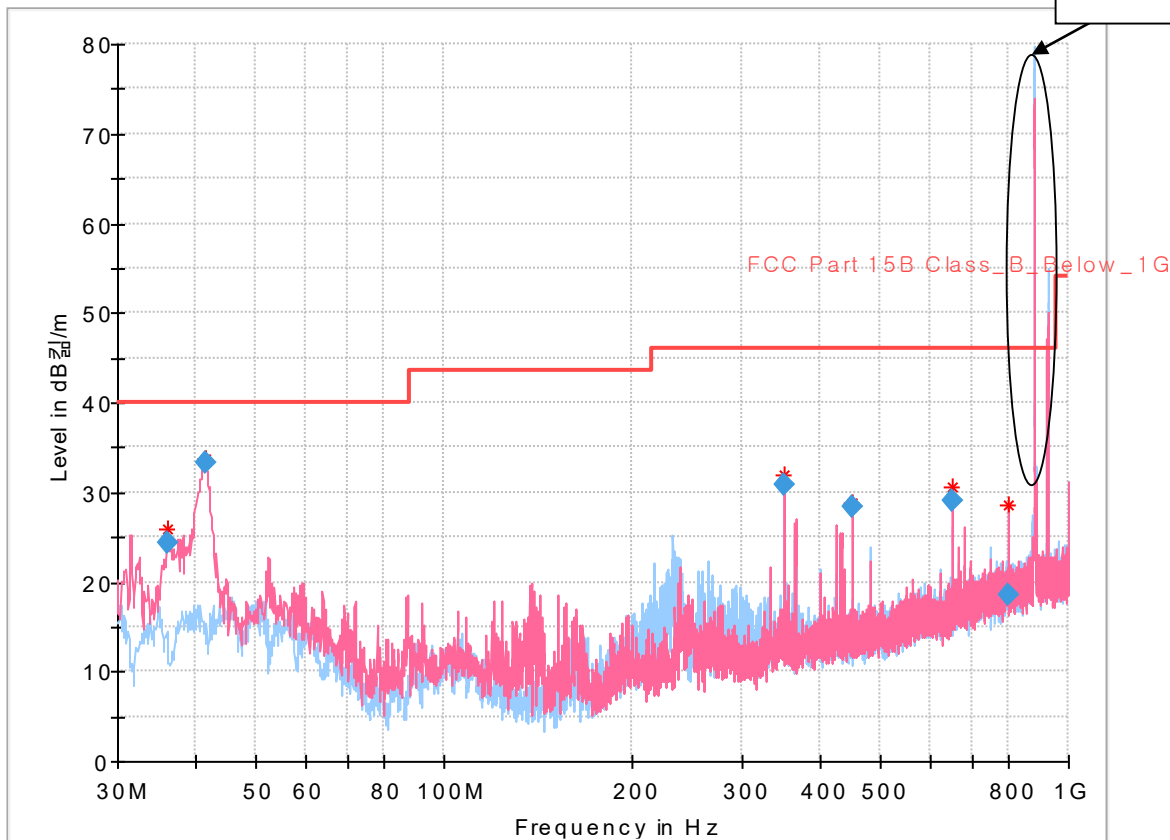
DATA (Below 1 GHz : MODE 4_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 4_LOW

EGSM 900
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	24.34	40.00	15.66	1000.0	120.000	100.0	V	1.0	-22.2
41.446	33.32	40.00	6.68	1000.0	120.000	100.0	V	218.0	-19.9
350.003	30.87	46.00	15.13	1000.0	120.000	100.0	V	32.0	-16.1
450.010	28.36	46.00	17.64	1000.0	120.000	100.0	V	142.0	-14.4
650.024	28.97	46.00	17.03	1000.0	120.000	100.0	V	128.0	-11.0
800.083	18.58	46.00	27.42	1000.0	120.000	100.0	V	259.0	-8.4



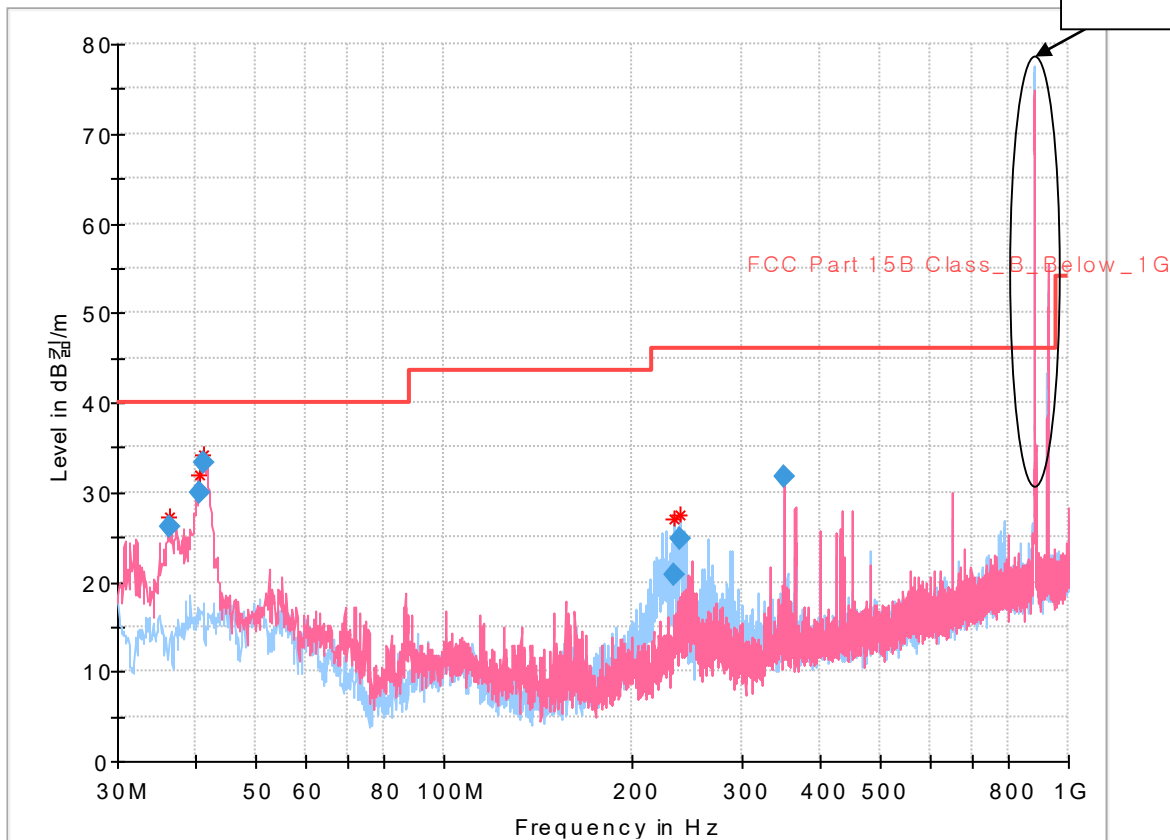
DATA (Below 1 GHz : MODE 4_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 4_MID

EGSM 900
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	26.24	40.00	13.76	1000.0	120.000	100.0	V	263.0	-22.1
40.476	30.04	40.00	9.96	1000.0	120.000	100.0	V	80.0	-20.4
41.252	33.36	40.00	6.64	1000.0	120.000	100.0	V	184.0	-20.0
233.506	20.85	46.00	25.15	1000.0	120.000	100.0	H	219.0	-19.7
238.647	24.75	46.00	21.25	1000.0	120.000	100.0	H	219.0	-19.6
350.003	31.81	46.00	14.19	1000.0	120.000	100.0	V	26.0	-16.1



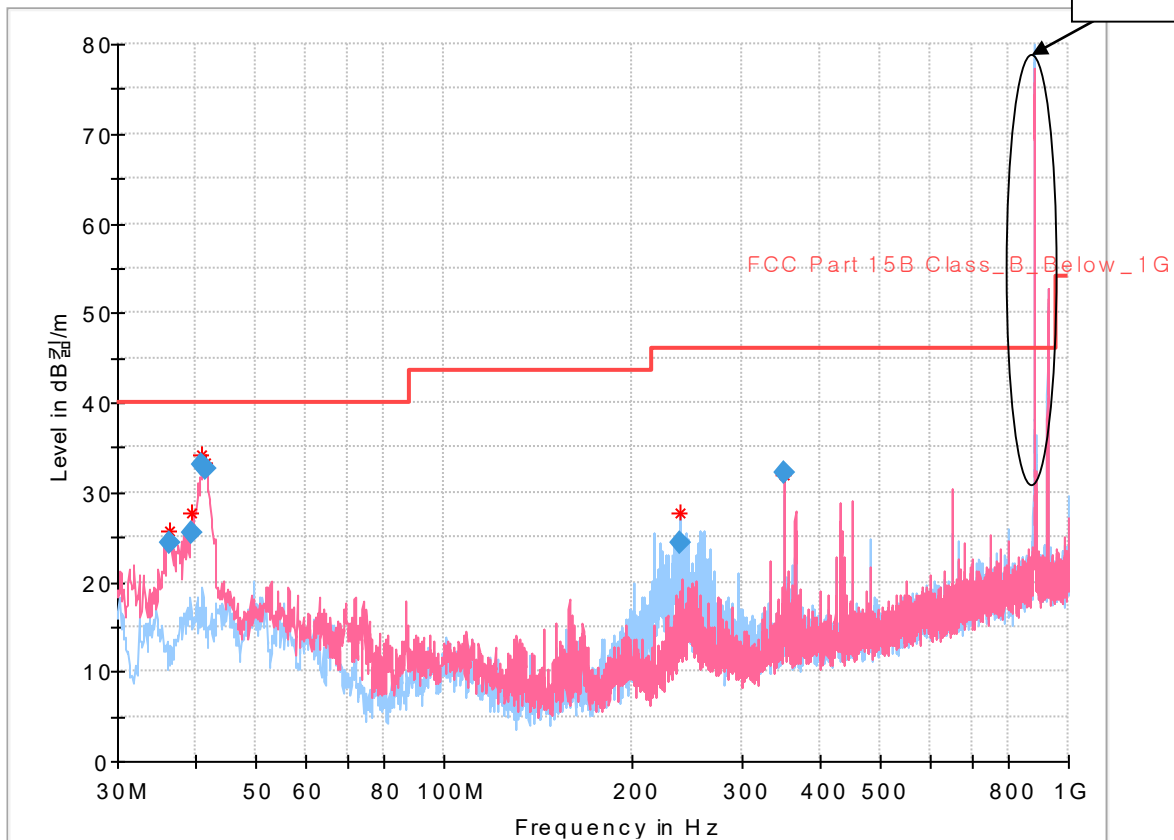
DATA (Below 1 GHz : MODE 4_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 4_HIGH

EGSM 900
FUNDAMENTAL
FREQUENCY
(Up-Down Link)



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	24.27	40.00	15.73	1000.0	120.000	100.0	V	69.0	-22.1
39.409	25.37	40.00	14.63	1000.0	120.000	100.0	V	110.0	-20.6
40.961	32.98	40.00	7.02	1000.0	120.000	100.0	V	207.0	-20.2
41.640	32.58	40.00	7.42	1000.0	120.000	100.0	V	207.0	-19.8
239.035	24.43	46.00	21.57	1000.0	120.000	100.0	H	219.0	-19.6
350.003	32.26	46.00	13.74	1000.0	120.000	100.0	V	14.0	-16.1

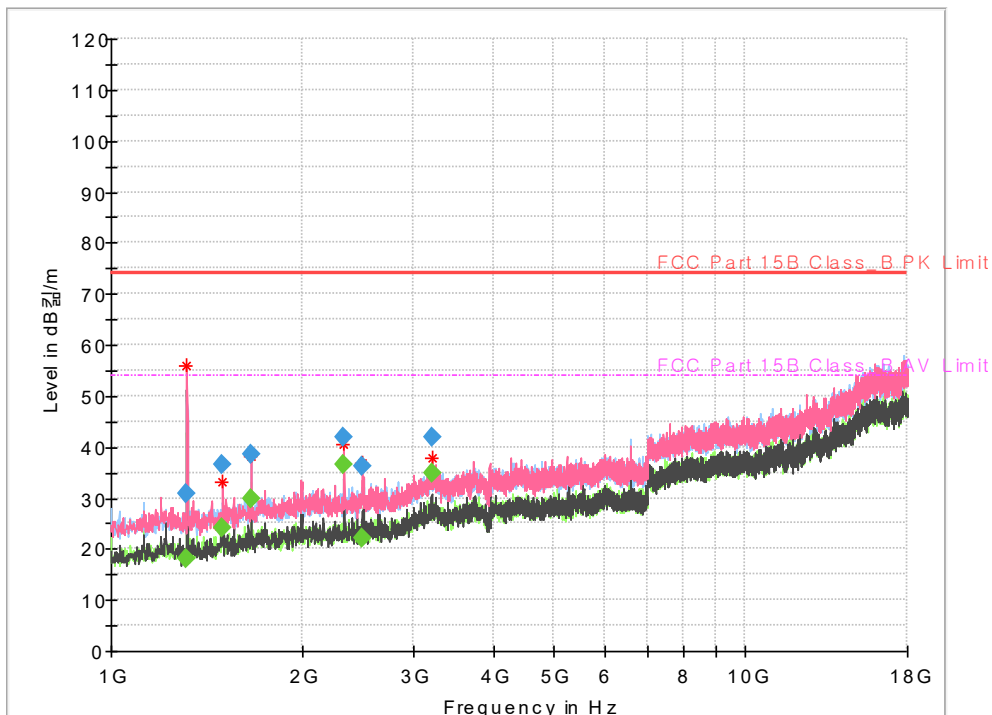


DATA (Above 1 GHz : MODE 4_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 4_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	---	18.17	54.00	35.83	1000.0	1000.000	99.9	V	325.0	-18.6
1316.200	30.73	---	74.00	43.27	1000.0	1000.000	99.9	V	325.0	-18.6
1499.800	---	24.03	54.00	29.97	1000.0	1000.000	99.9	V	146.0	-16.7
1499.800	36.39	---	74.00	37.61	1000.0	1000.000	99.9	V	146.0	-16.7
1664.700	---	29.84	54.00	24.16	1000.0	1000.000	99.9	H	121.0	-15.9
1664.700	38.47	---	74.00	35.53	1000.0	1000.000	99.9	H	121.0	-15.9
2331.100	41.82	---	74.00	32.18	1000.0	1000.000	99.9	V	112.0	-13.3
2331.100	---	36.68	54.00	17.32	1000.0	1000.000	99.9	V	112.0	-13.3
2490.900	---	22.01	54.00	31.99	1000.0	1000.000	99.9	V	146.0	-12.5
2490.900	36.05	---	74.00	37.95	1000.0	1000.000	99.9	V	146.0	-12.5
3199.800	41.98	---	74.00	32.02	1000.0	1000.000	99.9	V	45.0	-8.0
3199.800	---	34.88	54.00	19.12	1000.0	1000.000	99.9	V	45.0	-8.0

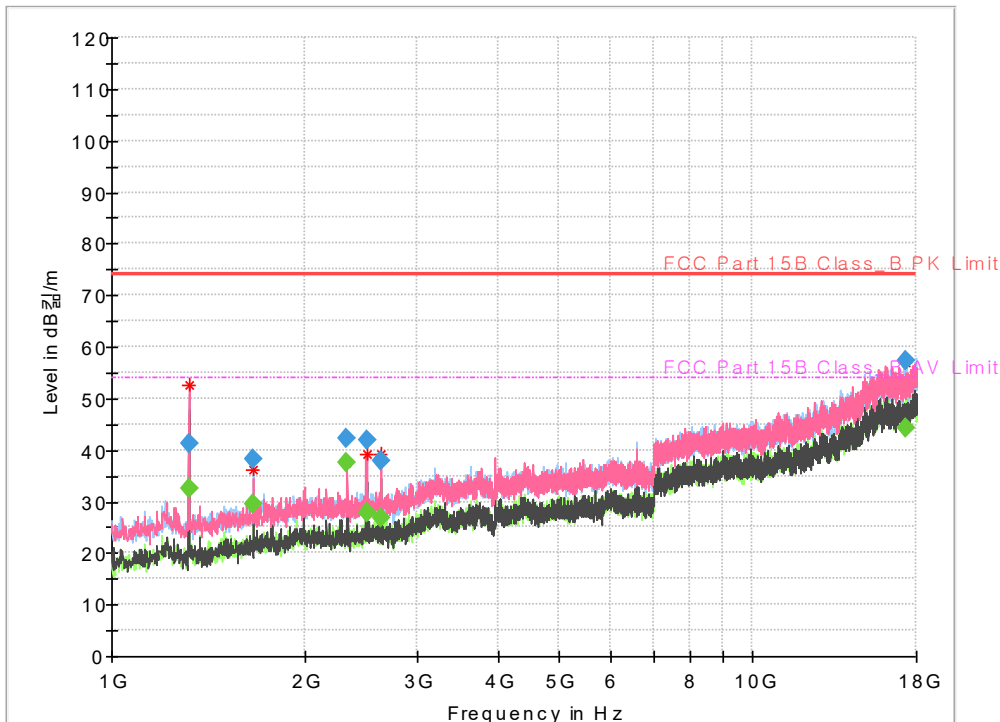


DATA (Above 1 GHz : MODE 4_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 4_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	32.66	54.00	21.34	1000.0	1000.000	99.9	V	279.0	-18.6
1317.900	41.28	---	74.00	32.72	1000.0	1000.000	99.9	V	279.0	-18.6
1664.700	38.20	---	74.00	35.80	1000.0	1000.000	99.9	H	111.0	-15.9
1664.700	---	29.61	54.00	24.39	1000.0	1000.000	99.9	H	111.0	-15.9
2331.100	---	37.66	54.00	16.34	1000.0	1000.000	99.9	V	102.0	-13.3
2331.100	42.39	---	74.00	31.61	1000.0	1000.000	99.9	V	102.0	-13.3
2497.700	---	27.70	54.00	26.30	1000.0	1000.000	99.9	V	137.0	-12.5
2497.700	41.83	---	74.00	32.17	1000.0	1000.000	99.9	V	137.0	-12.5
2637.100	---	26.86	54.00	27.14	1000.0	1000.000	99.9	V	242.0	-11.7
2637.100	37.92	---	74.00	36.08	1000.0	1000.000	99.9	V	242.0	-11.7
17377.800	57.38	---	74.00	16.62	1000.0	1000.000	99.9	H	292.0	9.7
17377.800	---	44.15	54.00	9.85	1000.0	1000.000	99.9	H	292.0	9.7

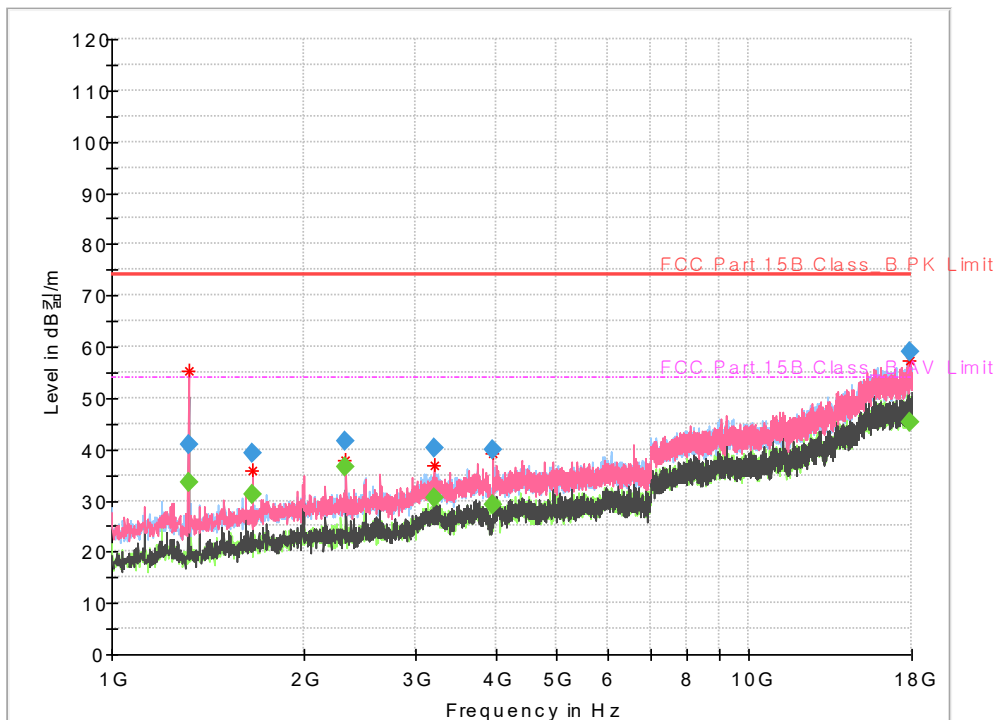


DATA (Above 1 GHz : MODE 4_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 4_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	40.73	---	74.00	33.27	1000.0	1000.000	99.9	V	322.0	-18.6
1317.900	---	33.55	54.00	20.45	1000.0	1000.000	99.9	V	322.0	-18.6
1664.700	39.12	---	74.00	34.88	1000.0	1000.000	99.9	V	110.0	-15.9
1664.700	---	31.07	54.00	22.93	1000.0	1000.000	99.9	V	110.0	-15.9
2331.100	41.71	---	74.00	32.29	1000.0	1000.000	99.9	V	110.0	-13.3
2331.100	---	36.38	54.00	17.62	1000.0	1000.000	99.9	V	110.0	-13.3
3199.800	---	30.60	54.00	23.40	1000.0	1000.000	99.9	V	110.0	-8.0
3199.800	40.27	---	74.00	33.73	1000.0	1000.000	99.9	V	110.0	-8.0
3956.300	---	29.06	54.00	24.94	1000.0	1000.000	99.9	V	287.0	-6.6
3956.300	39.87	---	74.00	34.13	1000.0	1000.000	99.9	V	287.0	-6.6
17942.200	58.83	---	74.00	15.17	1000.0	1000.000	99.9	V	216.0	11.6
17942.200	---	45.40	54.00	8.60	1000.0	1000.000	99.9	V	216.0	11.6

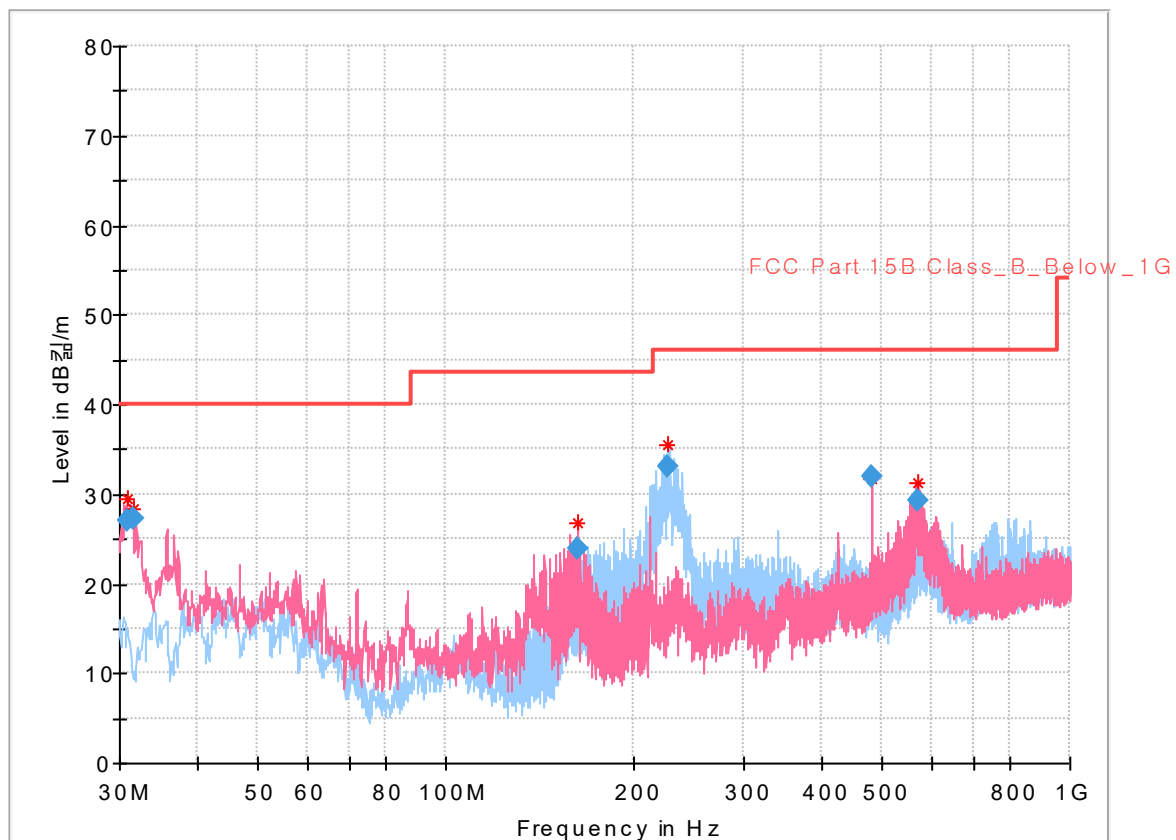


DATA (Below 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 5_LOW



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873	27.07	40.00	12.93	15000.0	120.000	100.0	V	248.0	-23.2
31.552	27.28	40.00	12.72	15000.0	120.000	100.0	V	288.0	-23.6
162.793	23.84	43.50	19.66	15000.0	120.000	100.0	V	221.0	-23.5
226.813	33.05	46.00	12.95	15000.0	120.000	100.0	H	244.0	-20.4
479.983	31.88	46.00	14.12	15000.0	120.000	100.0	H	62.0	-13.8
569.417	29.22	46.00	16.78	15000.0	120.000	100.0	V	169.0	-12.1

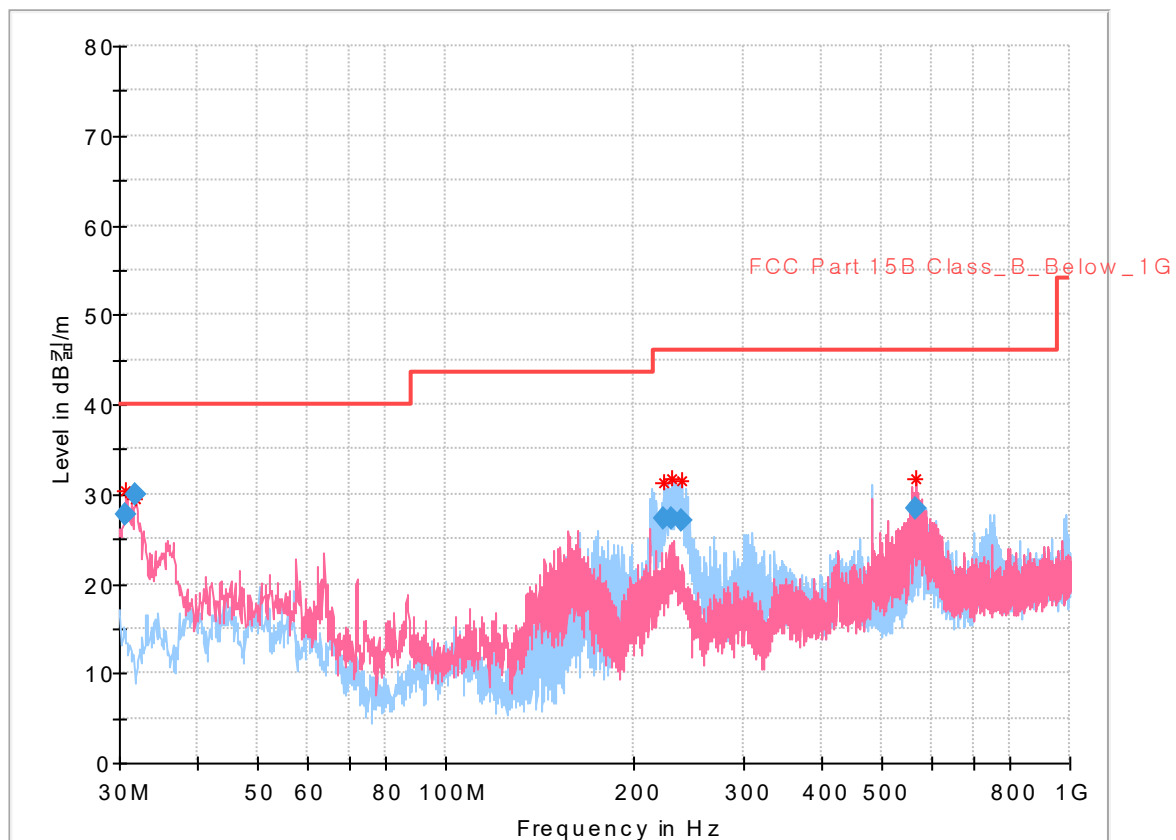


DATA (Below 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 5_MID



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.776	27.78	40.00	12.22	1000.0	120.000	100.0	V	248.0	-23.2
31.940	29.85	40.00	10.15	1000.0	120.000	100.0	V	105.0	-23.5
223.030	27.16	46.00	18.84	1000.0	120.000	100.0	H	62.0	-20.9
229.723	27.30	46.00	18.70	1000.0	120.000	100.0	H	112.0	-20.1
238.647	26.94	46.00	19.06	1000.0	120.000	100.0	H	98.0	-19.6
568.350	28.43	46.00	17.57	1000.0	120.000	100.0	V	174.0	-12.1

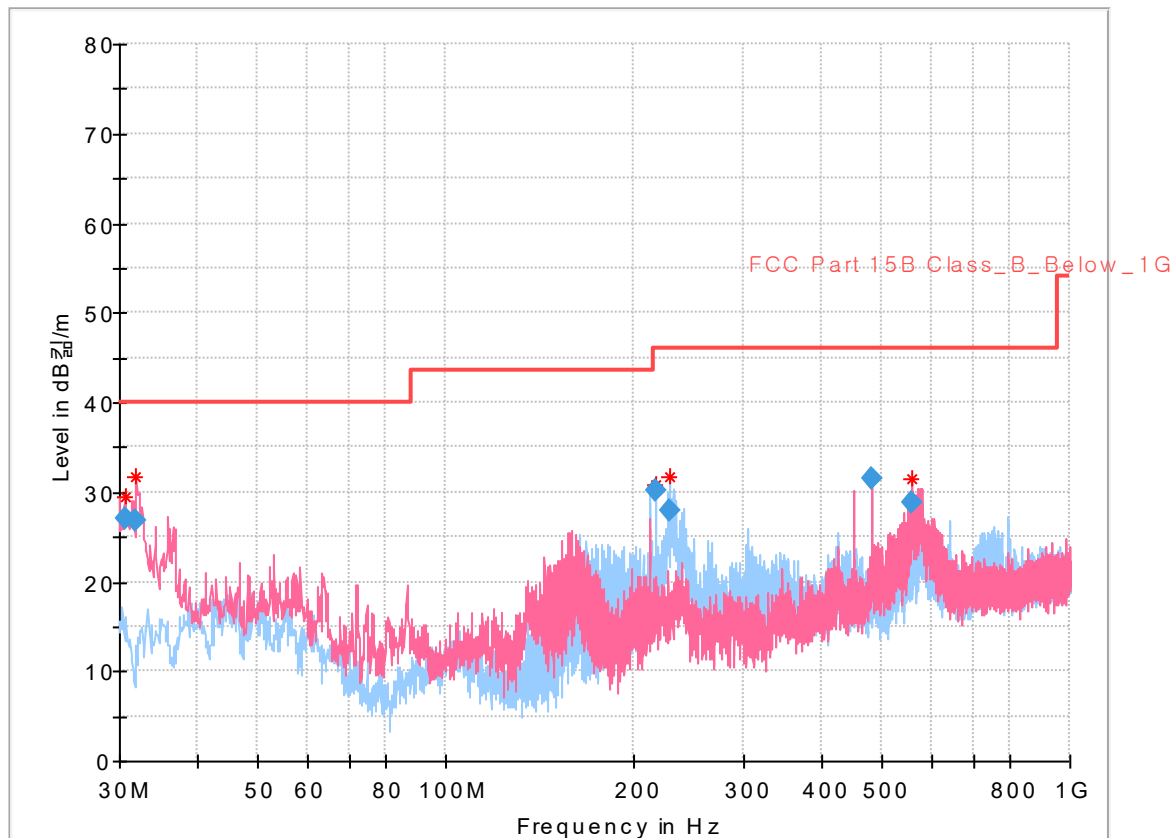


DATA (Below 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 5_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.582	26.99	40.00	13.01	1000.0	120.000	100.0	V	289.0	-23.0
31.843	26.72	40.00	13.28	1000.0	120.000	100.0	V	289.0	-23.5
216.822	30.25	46.00	15.75	1000.0	120.000	100.0	H	253.0	-21.2
227.977	27.90	46.00	18.10	1000.0	120.000	100.0	H	61.0	-20.3
479.983	31.60	46.00	14.40	1000.0	120.000	100.0	H	61.0	-13.8
559.717	28.85	46.00	17.15	1000.0	120.000	100.0	V	169.0	-12.2

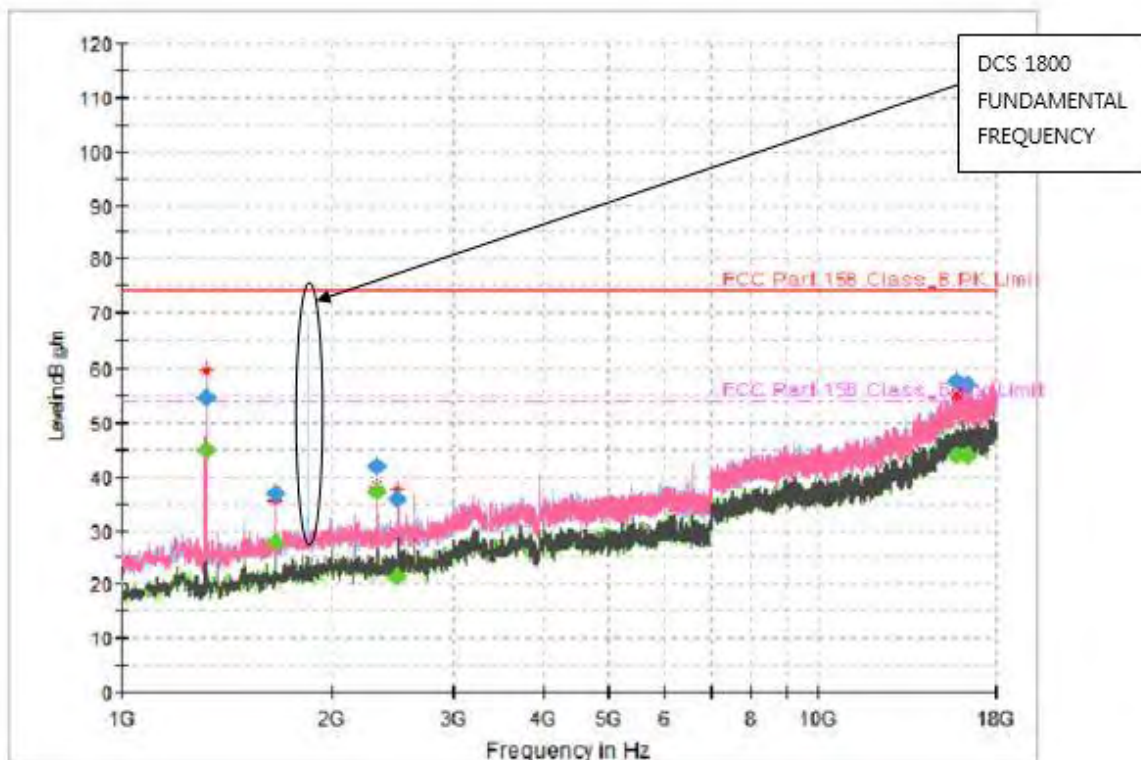


DATA (Above 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_LOW



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	54.51	---	74.00	19.49	1000.0	1000.000	99.9	V	286.0	-18.6
1317.900	---	44.79	54.00	9.21	1000.0	1000.000	99.9	V	286.0	-18.6
1664.700	36.91	---	74.00	37.09	1000.0	1000.000	99.9	H	295.0	-15.9
1664.700	---	27.87	54.00	26.13	1000.0	1000.000	99.9	H	295.0	-15.9
2331.100	41.76	---	74.00	32.24	1000.0	1000.000	99.9	V	107.0	-13.3
2331.100	---	37.06	54.00	16.94	1000.0	1000.000	99.9	V	107.0	-13.3
2489.200	---	21.52	54.00	32.48	1000.0	1000.000	99.9	V	107.0	-12.5
2489.200	36.00	---	74.00	38.00	1000.0	1000.000	99.9	V	107.0	-12.5
15783.200	57.59	---	74.00	16.41	1000.0	1000.000	99.9	V	321.0	9.0
15783.200	---	44.01	54.00	9.99	1000.0	1000.000	99.9	V	321.0	9.0
16419.000	---	44.04	54.00	9.96	1000.0	1000.000	99.9	V	177.0	9.1
16419.000	56.83	---	74.00	17.17	1000.0	1000.000	99.9	V	177.0	9.1

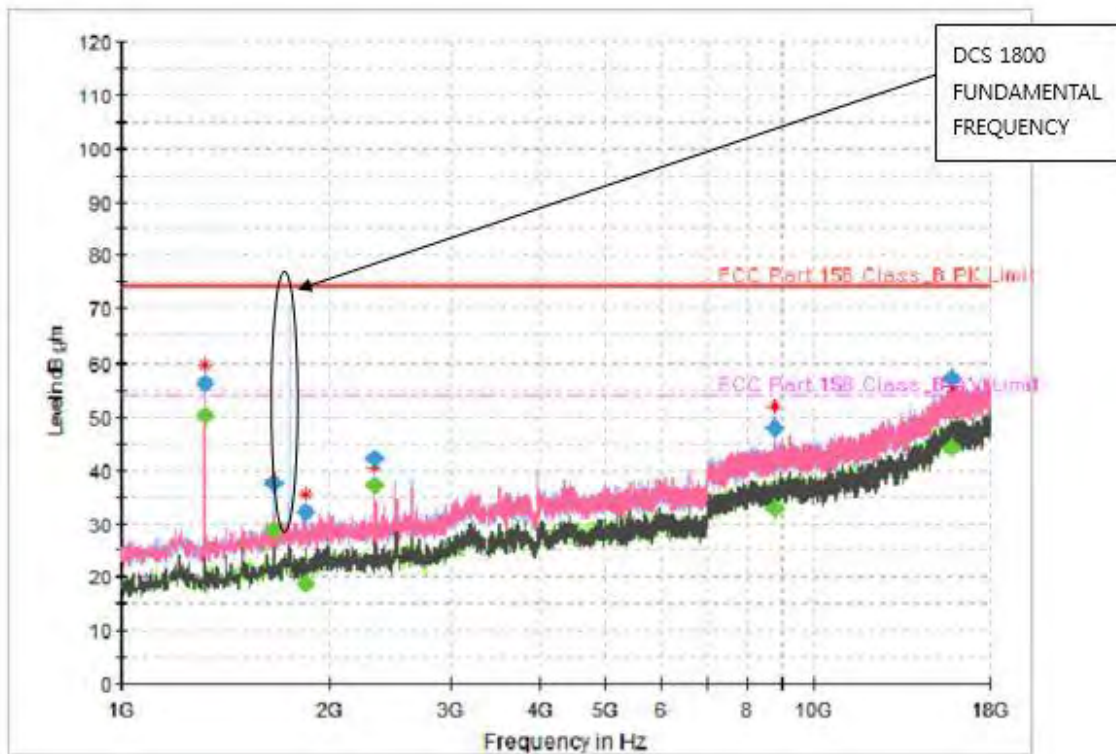


DATA (Above 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	50.34	54.00	3.66	1000.0	1000.000	99.9	V	282.0	-18.6
1317.900	56.35	---	74.00	17.65	1000.0	1000.000	99.9	V	282.0	-18.6
1664.700	37.41	---	74.00	36.59	1000.0	1000.000	99.9	H	118.0	-15.9
1664.700	---	28.74	54.00	25.26	1000.0	1000.000	99.9	H	118.0	-15.9
1848.300	---	18.89	54.00	35.11	1000.0	1000.000	99.9	H	225.0	-15.1
1848.300	32.03	---	74.00	41.97	1000.0	1000.000	99.9	H	225.0	-15.1
2331.100	---	37.37	54.00	16.63	1000.0	1000.000	99.9	V	105.0	-13.3
2331.100	42.29	---	74.00	31.71	1000.0	1000.000	99.9	V	105.0	-13.3
8750.300	---	32.99	54.00	21.01	1000.0	1000.000	99.9	H	186.0	1.2
8750.300	47.89	---	74.00	26.11	1000.0	1000.000	99.9	H	186.0	1.2
15761.100	57.21	---	74.00	16.79	1000.0	1000.000	99.9	V	105.0	9.0
15761.100	---	44.11	54.00	9.89	1000.0	1000.000	99.9	V	105.0	9.0

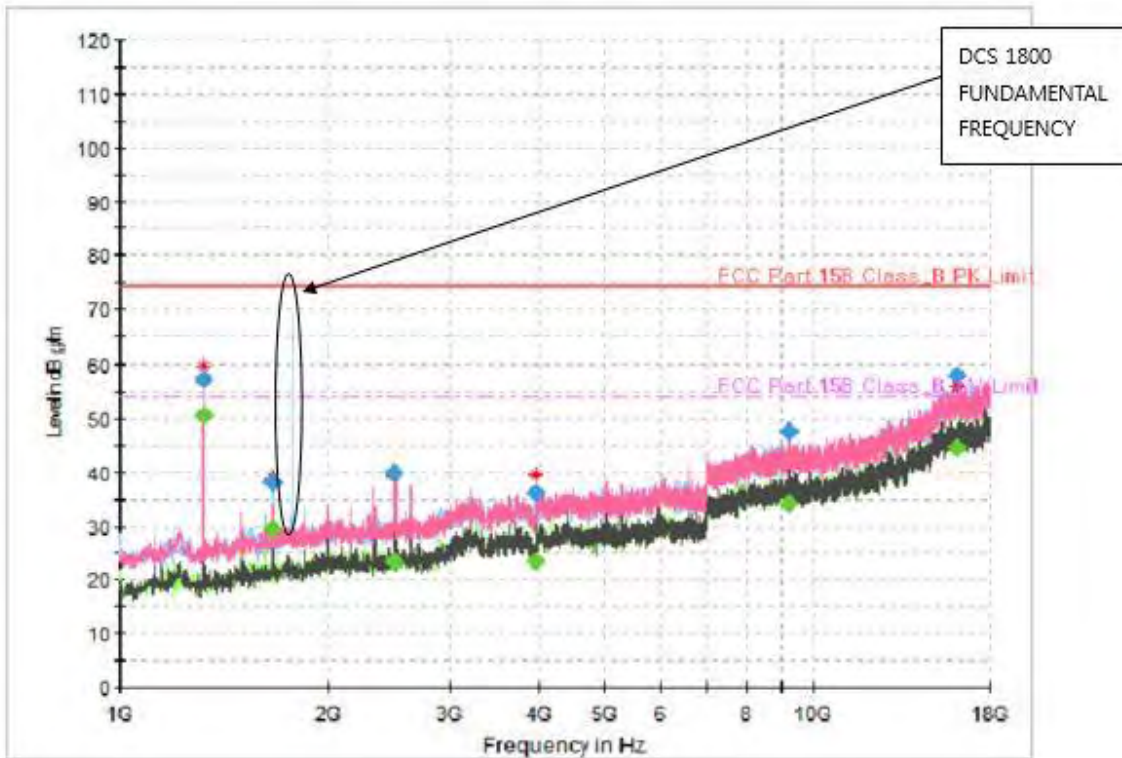


DATA (Above 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	---	50.76	54.00	3.24	1000.0	1000.000	99.9	V	281.0	-18.6
1317.900	57.44	---	74.00	16.56	1000.0	1000.000	99.9	V	281.0	-18.6
1664.700	38.28	---	74.00	35.72	1000.0	1000.000	99.9	H	120.0	-15.9
1664.700	---	29.42	54.00	24.58	1000.0	1000.000	99.9	H	120.0	-15.9
2492.600	---	23.63	54.00	30.37	1000.0	1000.000	99.9	V	138.0	-12.5
2492.600	39.96	---	74.00	34.04	1000.0	1000.000	99.9	V	138.0	-12.5
3954.600	---	23.58	54.00	30.42	1000.0	1000.000	99.9	V	246.0	-6.6
3954.600	36.33	---	74.00	37.67	1000.0	1000.000	99.9	V	246.0	-6.6
9229.700	47.48	---	74.00	26.52	1000.0	1000.000	99.9	V	281.0	1.3
9229.700	---	34.05	54.00	19.95	1000.0	1000.000	99.9	V	281.0	1.3
16062.000	---	44.62	54.00	9.38	1000.0	1000.000	99.9	V	0.0	9.4
16062.000	57.82	---	74.00	16.18	1000.0	1000.000	99.9	V	0.0	9.4

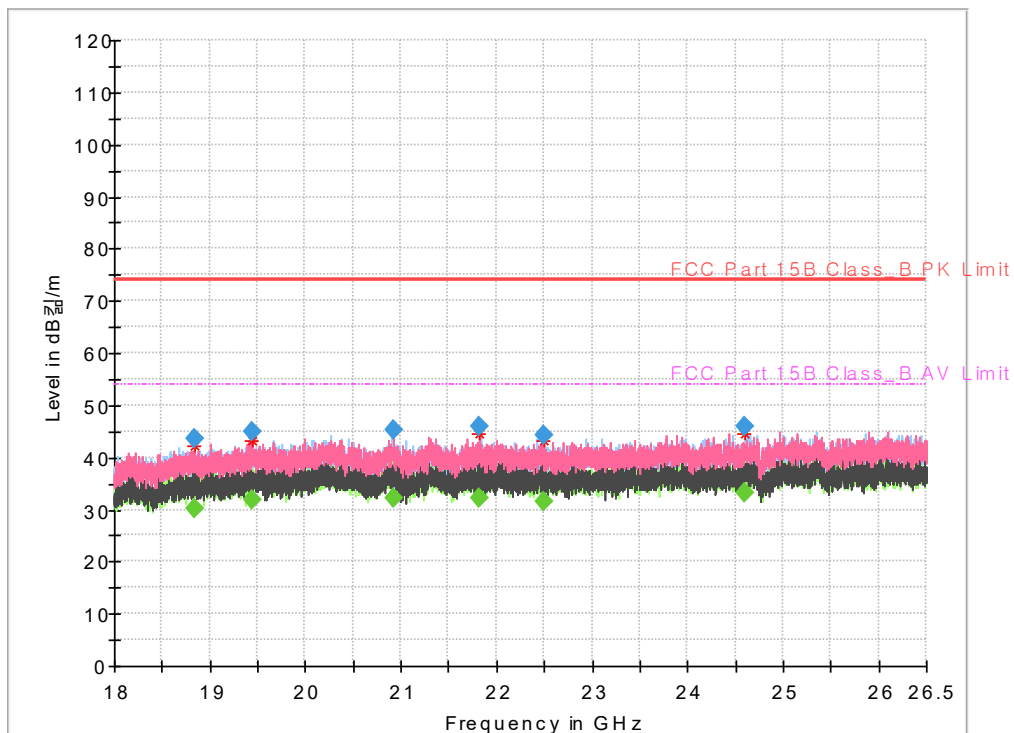


DATA (Above 1 GHz : MODE 5_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18838.100	---	30.25	54.00	23.75	1000.0	1000.000	100.0	H	0.0	16.8
18838.100	43.41	---	74.00	30.59	1000.0	1000.000	100.0	H	0.0	16.8
19450.100	44.79	---	74.00	29.21	1000.0	1000.000	100.0	V	101.0	17.7
19450.100	---	31.79	54.00	22.21	1000.0	1000.000	100.0	V	101.0	17.7
20919.750	---	32.26	54.00	21.74	1000.0	1000.000	100.0	V	0.0	18.3
20919.750	45.30	---	74.00	28.70	1000.0	1000.000	100.0	V	0.0	18.3
21817.350	46.00	---	74.00	28.00	1000.0	1000.000	100.0	V	154.0	18.3
21817.350	---	32.21	54.00	21.79	1000.0	1000.000	100.0	V	154.0	18.3
22492.250	44.33	---	74.00	29.67	1000.0	1000.000	100.0	V	273.0	18.2
22492.250	---	31.60	54.00	22.40	1000.0	1000.000	100.0	V	273.0	18.2
24607.900	45.77	---	74.00	28.23	1000.0	1000.000	100.0	H	154.0	18.9
24607.900	---	33.13	54.00	20.87	1000.0	1000.000	100.0	H	154.0	18.9

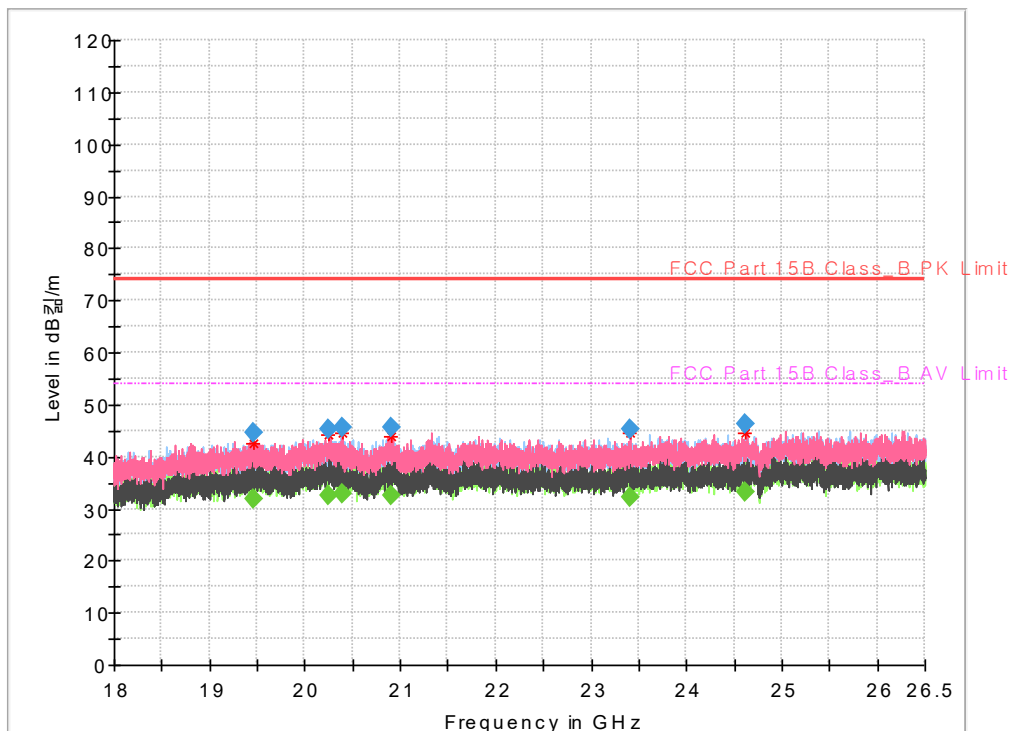


DATA (Above 1 GHz : MODE 5_MID)

Test Report

Common Information

Test Description: ABOVE_MODE 5_LOW
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19465.400	44.75	---	74.00	29.25	1000.0	1000.000	100.0	V	163.0	17.7
19465.400	---	31.83	54.00	22.17	1000.0	1000.000	100.0	V	163.0	17.7
20244.850	---	32.61	54.00	21.39	1000.0	1000.000	100.0	V	0.0	18.2
20244.850	45.28	---	74.00	28.72	1000.0	1000.000	100.0	V	0.0	18.2
20385.950	---	32.81	54.00	21.19	1000.0	1000.000	100.0	V	51.0	18.3
20385.950	45.56	---	74.00	28.44	1000.0	1000.000	100.0	V	51.0	18.3
20902.750	---	32.56	54.00	21.44	1000.0	1000.000	100.0	V	281.0	18.3
20902.750	45.44	---	74.00	28.56	1000.0	1000.000	100.0	V	281.0	18.3
23409.400	45.41	---	74.00	28.59	1000.0	1000.000	100.0	V	120.0	18.4
23409.400	---	32.25	54.00	21.75	1000.0	1000.000	100.0	V	120.0	18.4
24624.050	---	33.13	54.00	20.87	1000.0	1000.000	100.0	H	177.0	18.9
24624.050	46.23	---	74.00	27.77	1000.0	1000.000	100.0	H	177.0	18.9

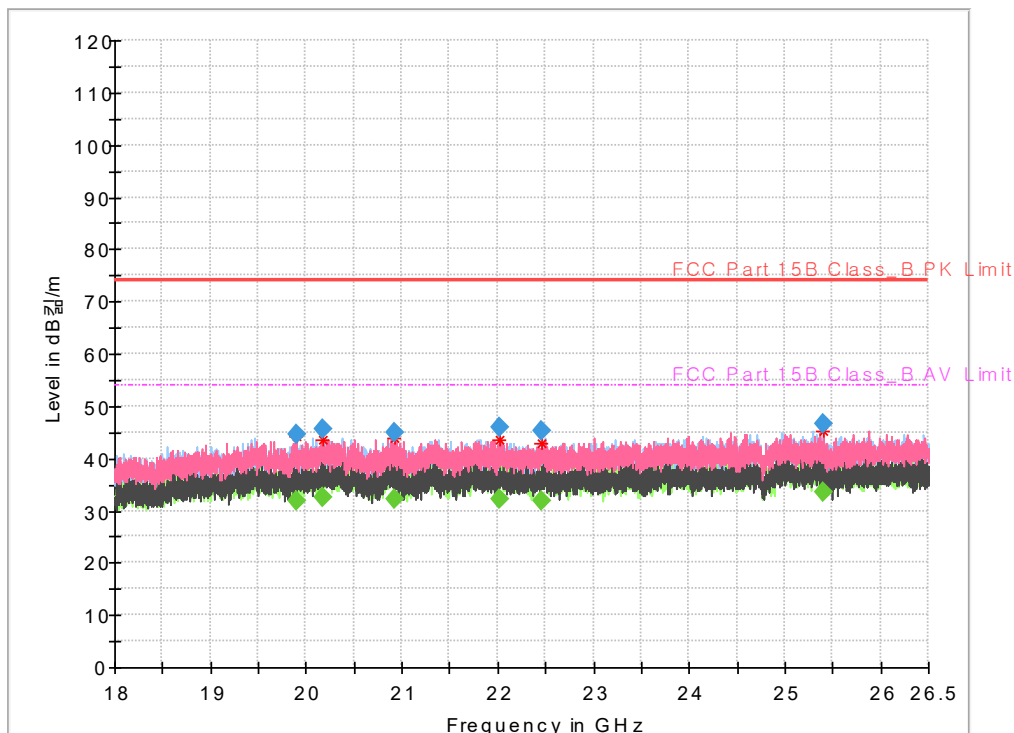


DATA (Above 1 GHz : MODE 5_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 5_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19898.050	44.74	---	74.00	29.26	1000.0	1000.000	100.0	V	84.0	17.7
19898.050	---	31.85	54.00	22.15	1000.0	1000.000	100.0	V	84.0	17.7
20176.000	---	32.61	54.00	21.39	1000.0	1000.000	100.0	H	344.0	18.0
20176.000	45.54	---	74.00	28.46	1000.0	1000.000	100.0	H	344.0	18.0
20926.550	44.94	---	74.00	29.06	1000.0	1000.000	100.0	V	189.0	18.3
20926.550	---	32.34	54.00	21.66	1000.0	1000.000	100.0	V	189.0	18.3
22017.950	---	32.29	54.00	21.71	1000.0	1000.000	100.0	H	84.0	18.4
22017.950	45.82	---	74.00	28.18	1000.0	1000.000	100.0	H	84.0	18.4
22465.900	45.09	---	74.00	28.91	1000.0	1000.000	100.0	V	41.0	18.2
22465.900	---	31.84	54.00	22.16	1000.0	1000.000	100.0	V	41.0	18.2
25400.100	46.54	---	74.00	27.46	1000.0	1000.000	100.0	V	0.0	19.2
25400.100	---	33.45	54.00	20.55	1000.0	1000.000	100.0	V	0.0	19.2

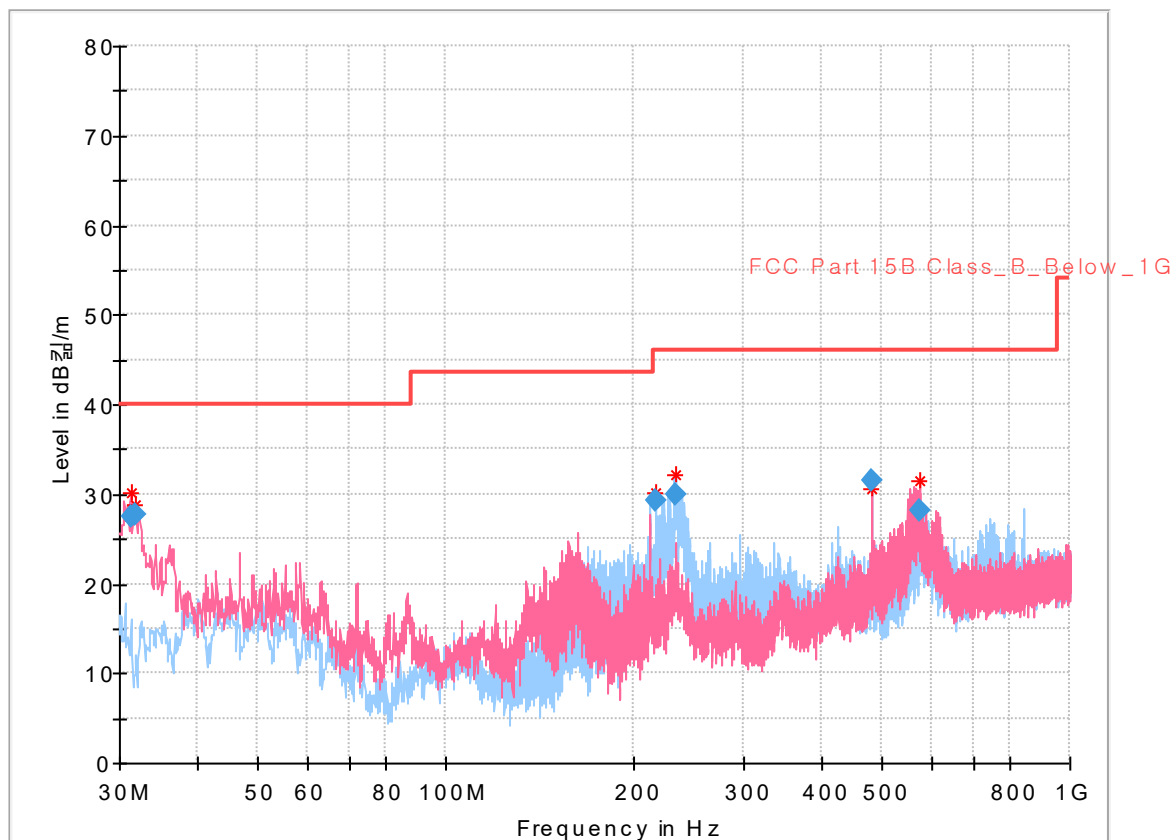


DATA (Below 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 6_LOW



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	27.45	40.00	12.55	1000.0	120.000	100.0	V	251.0	-23.5
31.746	27.70	40.00	12.30	1000.0	120.000	100.0	V	251.0	-23.5
216.919	29.25	46.00	16.75	1000.0	120.000	100.0	H	213.0	-21.2
234.088	30.05	46.00	15.95	1000.0	120.000	100.0	H	296.0	-19.7
479.983	31.59	46.00	14.41	1000.0	120.000	100.0	H	76.0	-13.8
573.394	28.14	46.00	17.86	1000.0	120.000	100.0	V	168.0	-11.9

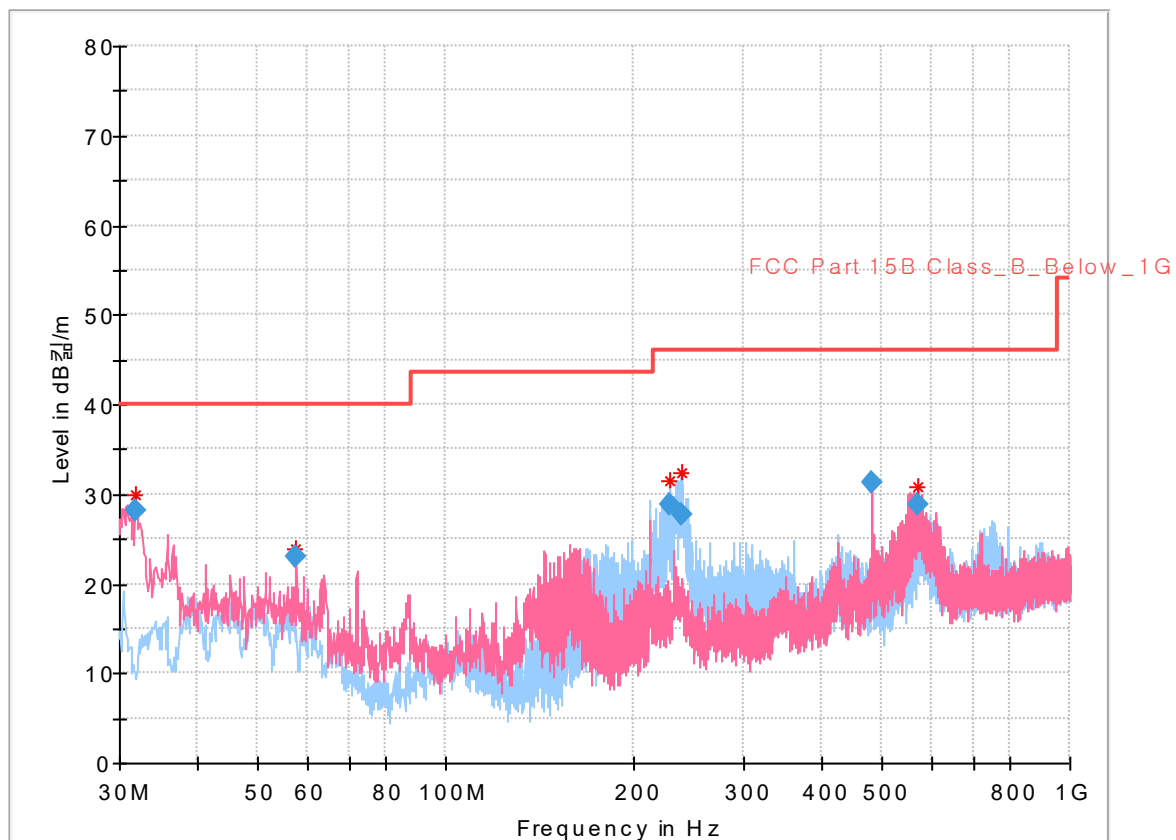


DATA (Below 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 6_MID



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.746	28.06	40.00	11.94	1000.0	120.000	100.0	V	272.0	-23.5
57.645	23.12	40.00	16.88	1000.0	120.000	100.0	V	298.0	-19.8
228.656	28.76	46.00	17.24	1000.0	120.000	100.0	H	271.0	-20.2
238.841	27.74	46.00	18.26	1000.0	120.000	100.0	H	271.0	-19.6
479.983	31.20	46.00	14.80	1000.0	120.000	100.0	H	57.0	-13.8
569.999	28.79	46.00	17.21	1000.0	120.000	100.0	V	172.0	-12.1

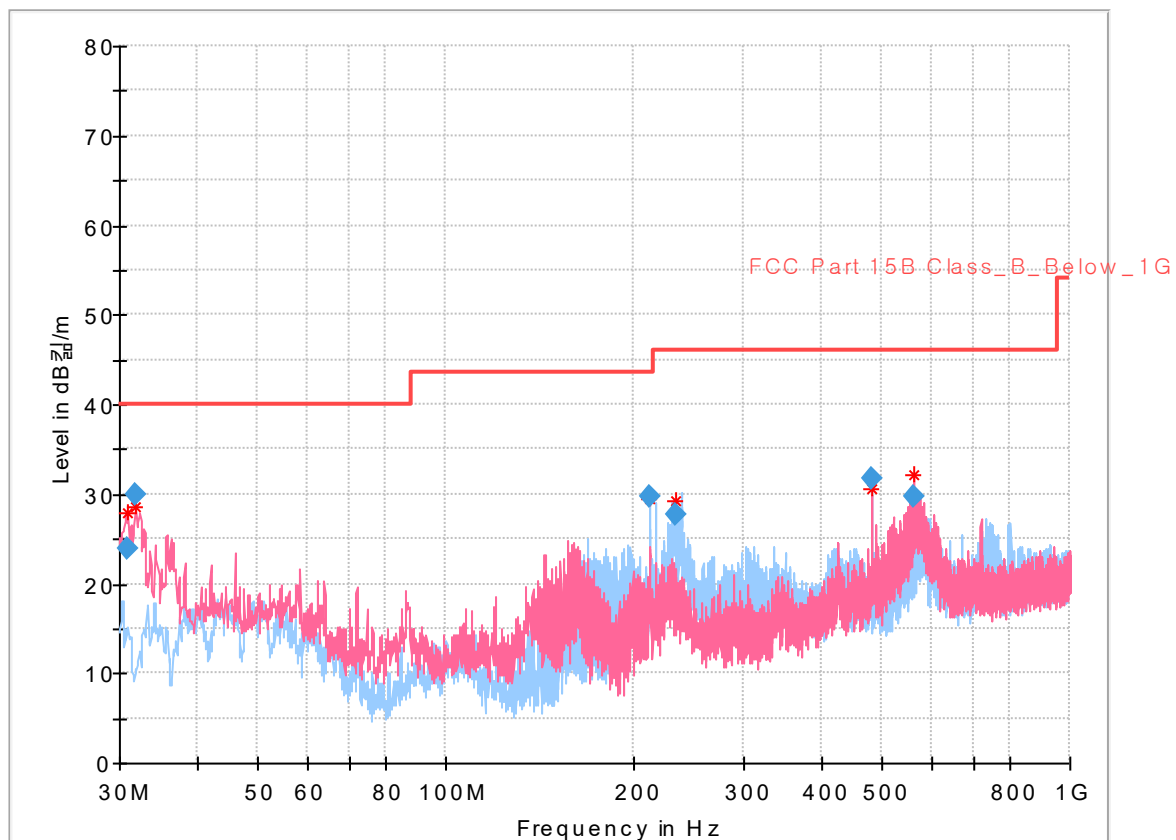


DATA (Below 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 6_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.970	23.91	40.00	16.09	1000.0	120.000	100.0	V	35.0	-23.3
31.940	29.89	40.00	10.11	1000.0	120.000	100.0	V	130.0	-23.5
211.778	29.74	43.50	13.76	1000.0	120.000	100.0	H	276.0	-21.4
233.409	27.63	46.00	18.37	1000.0	120.000	100.0	H	56.0	-19.7
479.983	31.79	46.00	14.21	1000.0	120.000	100.0	H	70.0	-13.8
560.784	29.73	46.00	16.27	1000.0	120.000	100.0	V	170.0	-12.2

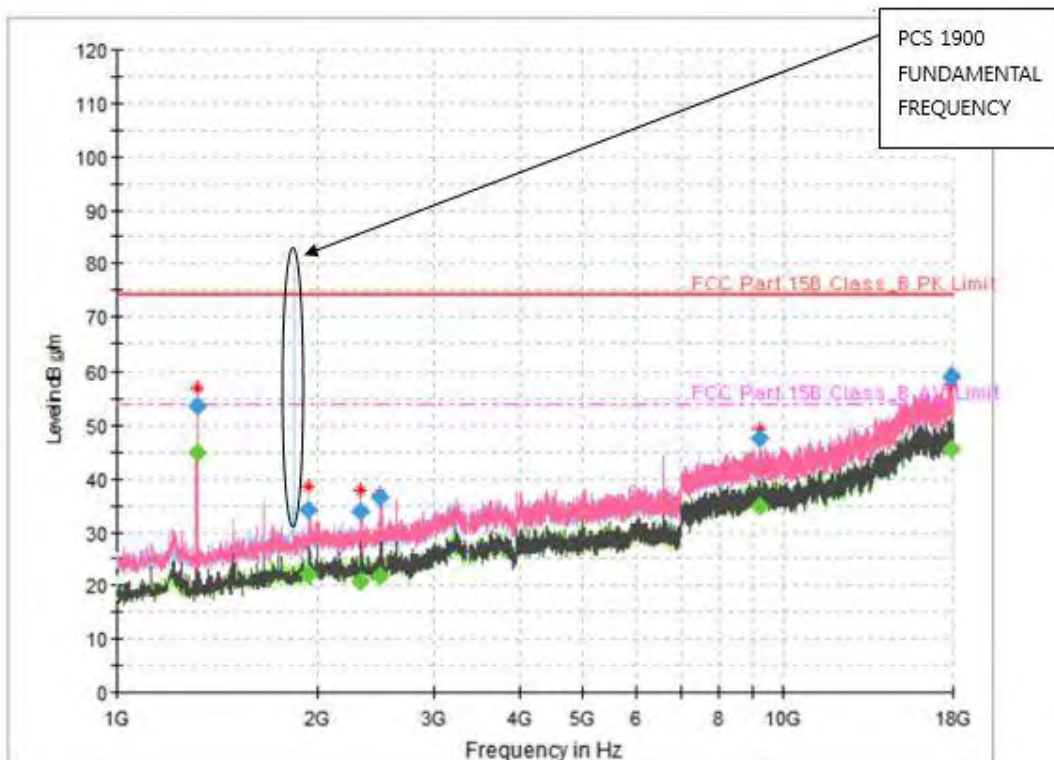


DATA (Above 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1317.900	53.74	---	74.00	20.26	1000.0	1000.000	99.9	V	280.0	-18.6
1317.900	---	45.04	54.00	8.96	1000.0	1000.000	99.9	V	280.0	-18.6
1946.900	---	22.13	54.00	31.87	1000.0	1000.000	99.9	H	257.0	-14.0
1946.900	34.18	---	74.00	39.82	1000.0	1000.000	99.9	H	257.0	-14.0
2329.400	---	20.81	54.00	33.19	1000.0	1000.000	99.9	V	102.0	-13.3
2329.400	33.84	---	74.00	40.16	1000.0	1000.000	99.9	V	102.0	-13.3
2494.300	---	21.85	54.00	32.15	1000.0	1000.000	99.9	H	77.0	-12.5
2494.300	36.55	---	74.00	37.45	1000.0	1000.000	99.9	H	77.0	-12.5
9231.400	47.51	---	74.00	26.49	1000.0	1000.000	99.9	V	280.0	1.3
9231.400	---	34.82	54.00	19.18	1000.0	1000.000	99.9	V	280.0	1.3
17904.800	---	45.61	54.00	8.39	1000.0	1000.000	99.9	V	102.0	11.3
17904.800	58.83	---	74.00	15.17	1000.0	1000.000	99.9	V	102.0	11.3

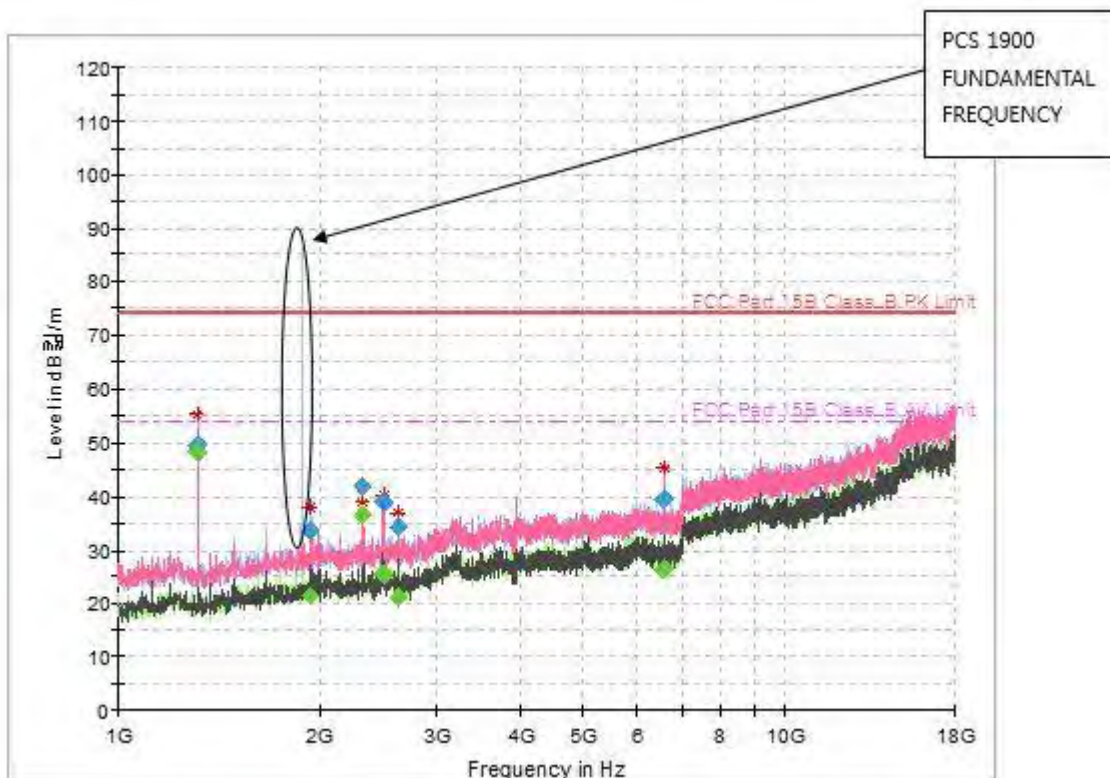


DATA (Above 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1316.200	49.71	---	74.00	24.29	1000.0	1000.000	99.9	V	286.0	-18.6
1316.200	---	48.43	54.00	5.57	1000.0	1000.000	99.9	V	286.0	-18.6
1946.900	33.57	---	74.00	40.43	1000.0	1000.000	99.9	H	225.0	-14.0
1946.900	---	21.29	54.00	32.71	1000.0	1000.000	99.9	H	225.0	-14.0
2331.100	41.94	---	74.00	32.06	1000.0	1000.000	99.9	V	108.0	-13.3
2331.100	---	36.59	54.00	17.41	1000.0	1000.000	99.9	V	108.0	-13.3
2497.700	38.73	---	74.00	35.27	1000.0	1000.000	99.9	V	108.0	-12.5
2497.700	---	25.52	54.00	28.48	1000.0	1000.000	99.9	V	108.0	-12.5
2633.700	34.20	---	74.00	39.80	1000.0	1000.000	99.9	V	216.0	-11.7
2633.700	---	21.28	54.00	32.72	1000.0	1000.000	99.9	V	216.0	-11.7
6586.200	39.71	---	74.00	34.29	1000.0	1000.000	99.9	V	216.0	-2.3
6586.200	---	26.49	54.00	27.51	1000.0	1000.000	99.9	V	216.0	-2.3

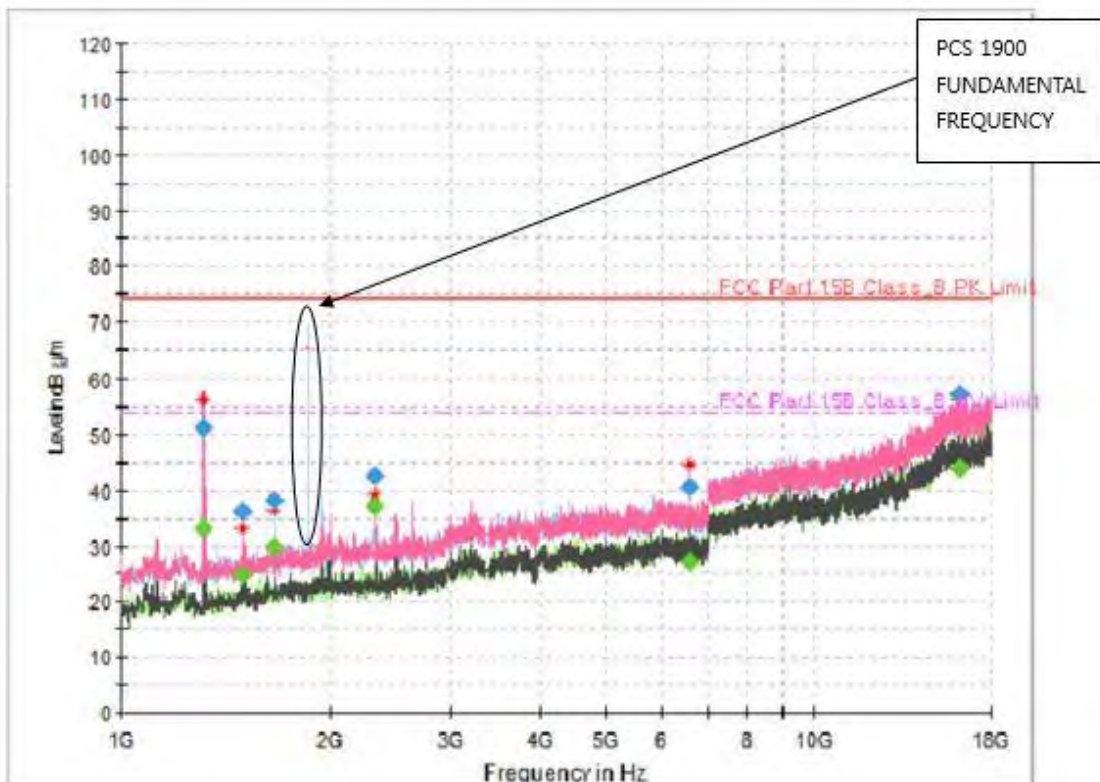


DATA (Above 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1314.500	---	33.03	54.00	20.97	1000.0	1000.000	99.9	V	281.0	-18.7
1314.500	51.45	---	74.00	22.55	1000.0	1000.000	99.9	V	281.0	-18.7
1499.800	---	24.89	54.00	29.11	1000.0	1000.000	99.9	V	145.0	-16.7
1499.800	36.28	---	74.00	37.72	1000.0	1000.000	99.9	V	145.0	-16.7
1664.700	---	29.91	54.00	24.09	1000.0	1000.000	99.9	H	111.0	-15.9
1664.700	38.05	---	74.00	35.95	1000.0	1000.000	99.9	H	111.0	-15.9
2331.100	42.53	---	74.00	31.47	1000.0	1000.000	99.9	V	110.0	-13.3
2331.100	---	37.04	54.00	16.96	1000.0	1000.000	99.9	V	110.0	-13.3
6579.400	---	27.28	54.00	26.72	1000.0	1000.000	99.9	V	213.0	-2.3
6579.400	40.40	---	74.00	33.60	1000.0	1000.000	99.9	V	213.0	-2.3
16215.000	57.16	---	74.00	16.84	1000.0	1000.000	99.9	V	42.0	9.1
16215.000	---	44.06	54.00	9.94	1000.0	1000.000	99.9	V	42.0	9.1

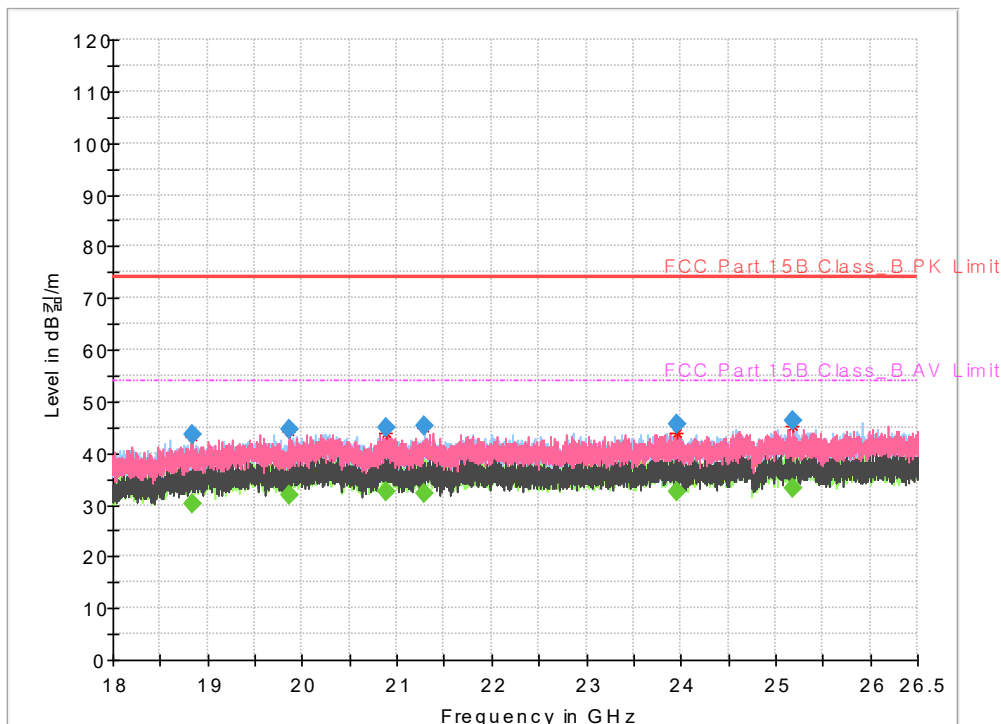


DATA (Above 1 GHz : MODE 6_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18837.250	43.41	---	74.00	30.59	1000.0	1000.000	100.0	V	303.0	16.8
18837.250	---	30.10	54.00	23.90	1000.0	1000.000	100.0	V	303.0	16.8
19855.550	---	31.79	54.00	22.21	1000.0	1000.000	100.0	V	208.0	17.6
19855.550	44.61	---	74.00	29.39	1000.0	1000.000	100.0	V	208.0	17.6
20884.900	45.06	---	74.00	28.94	1000.0	1000.000	100.0	H	293.0	18.2
20884.900	---	32.48	54.00	21.52	1000.0	1000.000	100.0	H	293.0	18.2
21286.950	45.41	---	74.00	28.59	1000.0	1000.000	100.0	H	357.0	18.4
21286.950	---	32.34	54.00	21.66	1000.0	1000.000	100.0	H	357.0	18.4
23955.100	---	32.36	54.00	21.64	1000.0	1000.000	100.0	H	135.0	18.5
23955.100	45.70	---	74.00	28.30	1000.0	1000.000	100.0	H	135.0	18.5
25176.550	46.10	---	74.00	27.90	1000.0	1000.000	100.0	V	281.0	19.1
25176.550	---	33.06	54.00	20.94	1000.0	1000.000	100.0	V	281.0	19.1

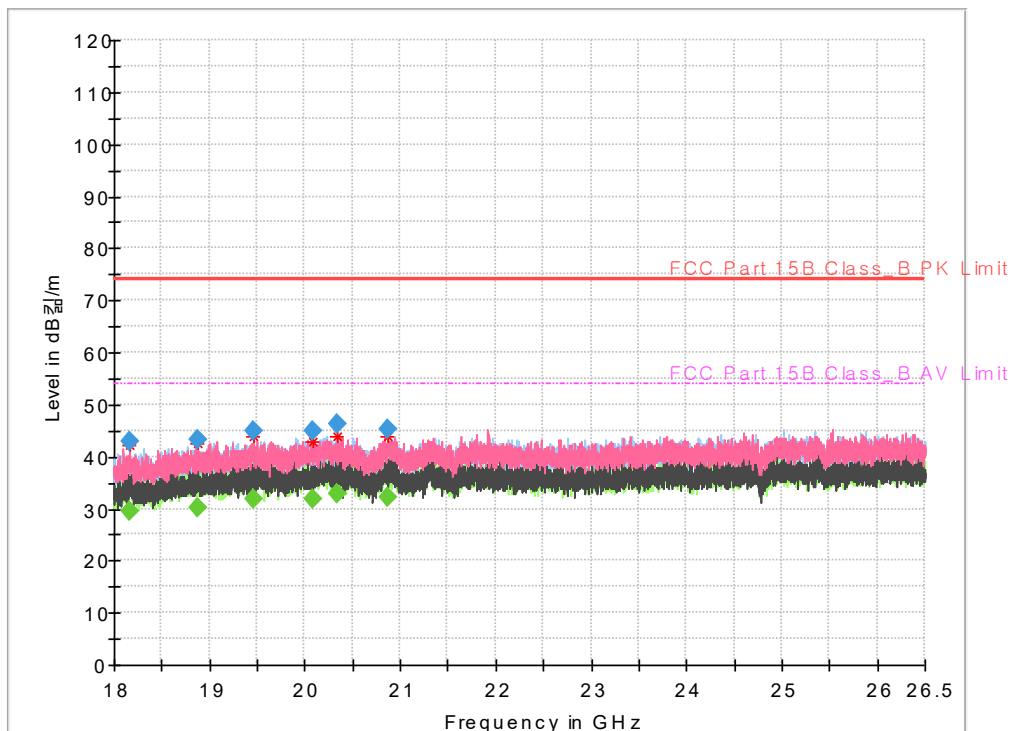


DATA (Above 1 GHz : MODE 6_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
18162.350	42.82	---	74.00	31.18	1000.0	1000.000	100.0	V	164.0	16.3
18162.350	---	29.63	54.00	24.37	1000.0	1000.000	100.0	V	164.0	16.3
18868.700	---	30.09	54.00	23.91	1000.0	1000.000	100.0	V	284.0	16.8
18868.700	43.24	---	74.00	30.76	1000.0	1000.000	100.0	V	284.0	16.8
19456.900	44.95	---	74.00	29.05	1000.0	1000.000	100.0	V	0.0	17.7
19456.900	---	31.95	54.00	22.05	1000.0	1000.000	100.0	V	0.0	17.7
20087.600	44.87	---	74.00	29.13	1000.0	1000.000	100.0	H	273.0	17.8
20087.600	---	32.01	54.00	21.99	1000.0	1000.000	100.0	H	273.0	17.8
20334.950	---	32.85	54.00	21.15	1000.0	1000.000	100.0	V	0.0	18.3
20334.950	46.16	---	74.00	27.84	1000.0	1000.000	100.0	V	0.0	18.3
20867.900	45.36	---	74.00	28.64	1000.0	1000.000	100.0	V	164.0	18.2
20867.900	---	32.35	54.00	21.65	1000.0	1000.000	100.0	V	164.0	18.2

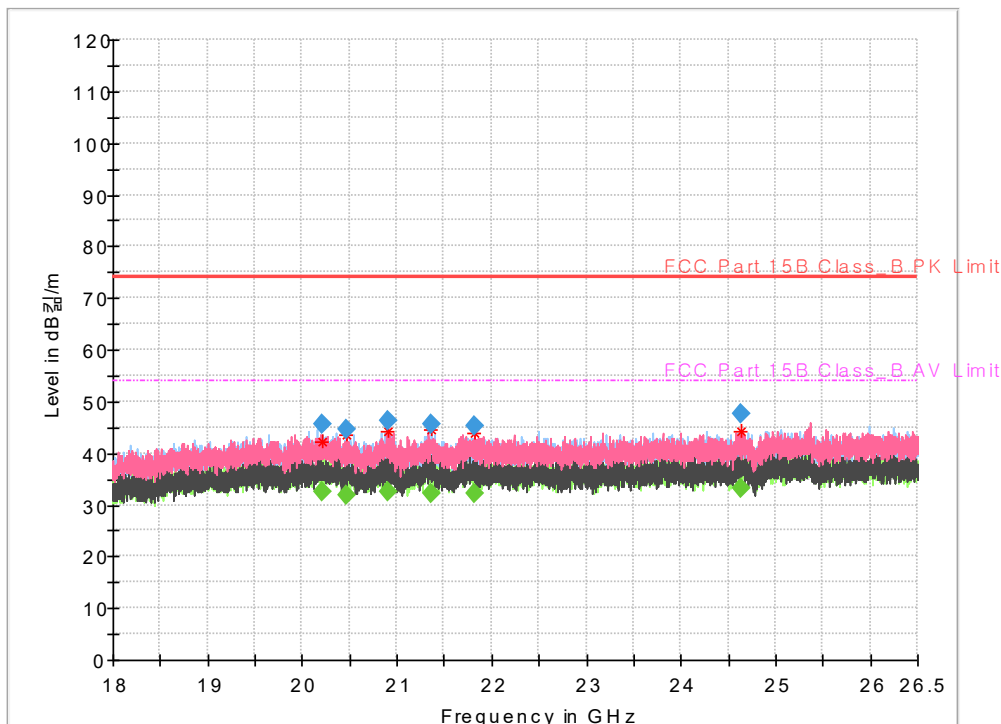


DATA (Above 1 GHz : MODE 6_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 6_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20203.200	---	32.59	54.00	21.41	1000.0	1000.000	100.0	H	344.0	18.1
20203.200	45.63	---	74.00	28.37	1000.0	1000.000	100.0	H	344.0	18.1
20468.400	44.59	---	74.00	29.41	1000.0	1000.000	100.0	V	69.0	18.2
20468.400	---	31.83	54.00	22.17	1000.0	1000.000	100.0	V	69.0	18.2
20897.650	46.24	---	74.00	27.76	1000.0	1000.000	100.0	H	273.0	18.3
20897.650	---	32.63	54.00	21.37	1000.0	1000.000	100.0	H	273.0	18.3
21355.800	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	318.0	18.4
21355.800	---	32.06	54.00	21.94	1000.0	1000.000	100.0	H	318.0	18.4
21820.750	---	32.31	54.00	21.69	1000.0	1000.000	100.0	V	3.0	18.3
21820.750	45.13	---	74.00	28.87	1000.0	1000.000	100.0	V	3.0	18.3
24630.850	47.47	---	74.00	26.53	1000.0	1000.000	100.0	H	292.0	18.9
24630.850	---	33.14	54.00	20.86	1000.0	1000.000	100.0	H	292.0	18.9

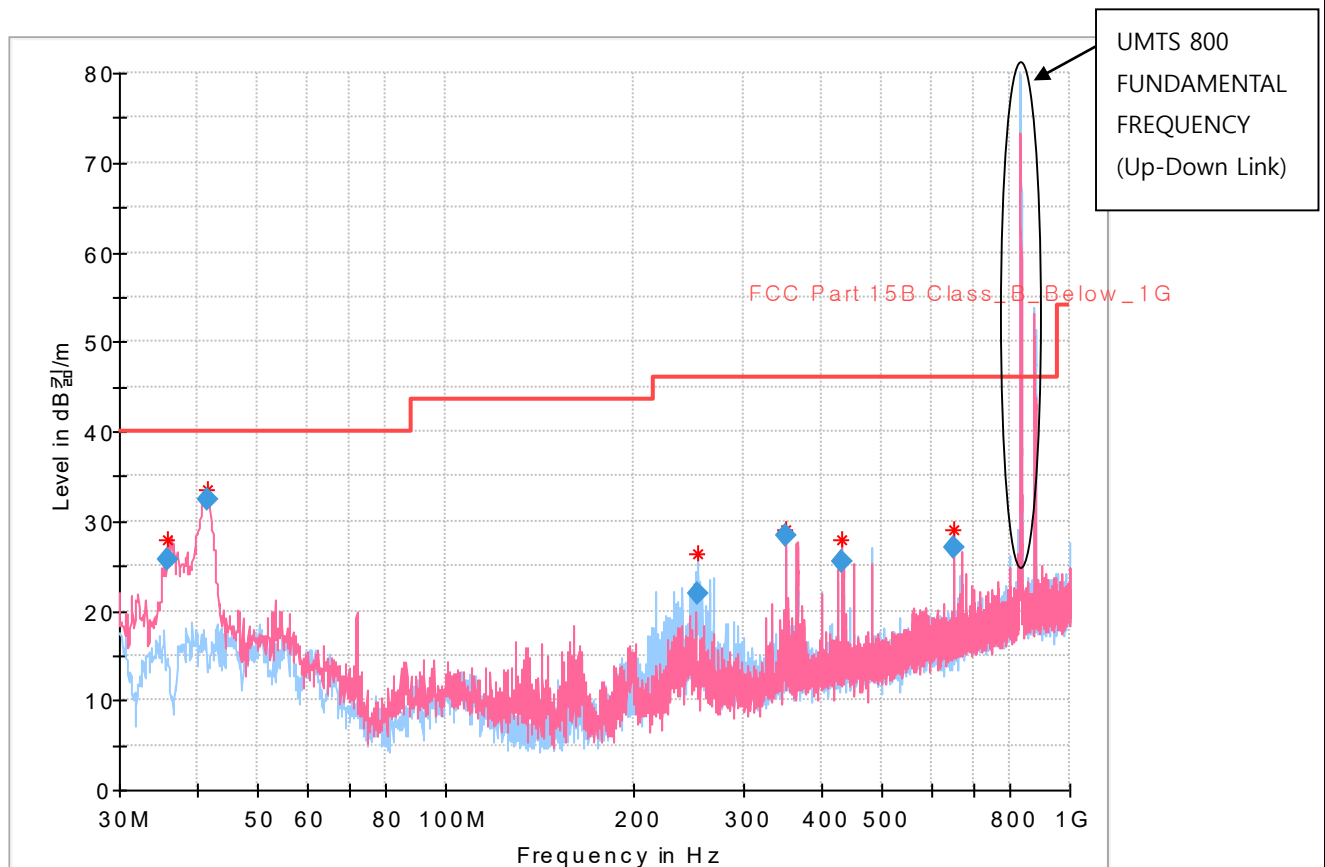


DATA (Below 1 GHz : MODE 7_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 7_LOW



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
35.917	25.59	40.00	14.41	1000.0	120.000	100.0	V	330.0	-22.2
41.446	32.48	40.00	7.52	1000.0	120.000	100.0	V	47.0	-19.9
253.973	21.94	46.00	24.06	1000.0	120.000	100.0	H	210.0	-18.5
350.003	28.38	46.00	17.62	1000.0	120.000	100.0	V	190.0	-16.1
431.386	25.55	46.00	20.45	1000.0	120.000	100.0	V	122.0	-14.8
650.024	27.15	46.00	18.85	1000.0	120.000	100.0	V	108.0	-11.0

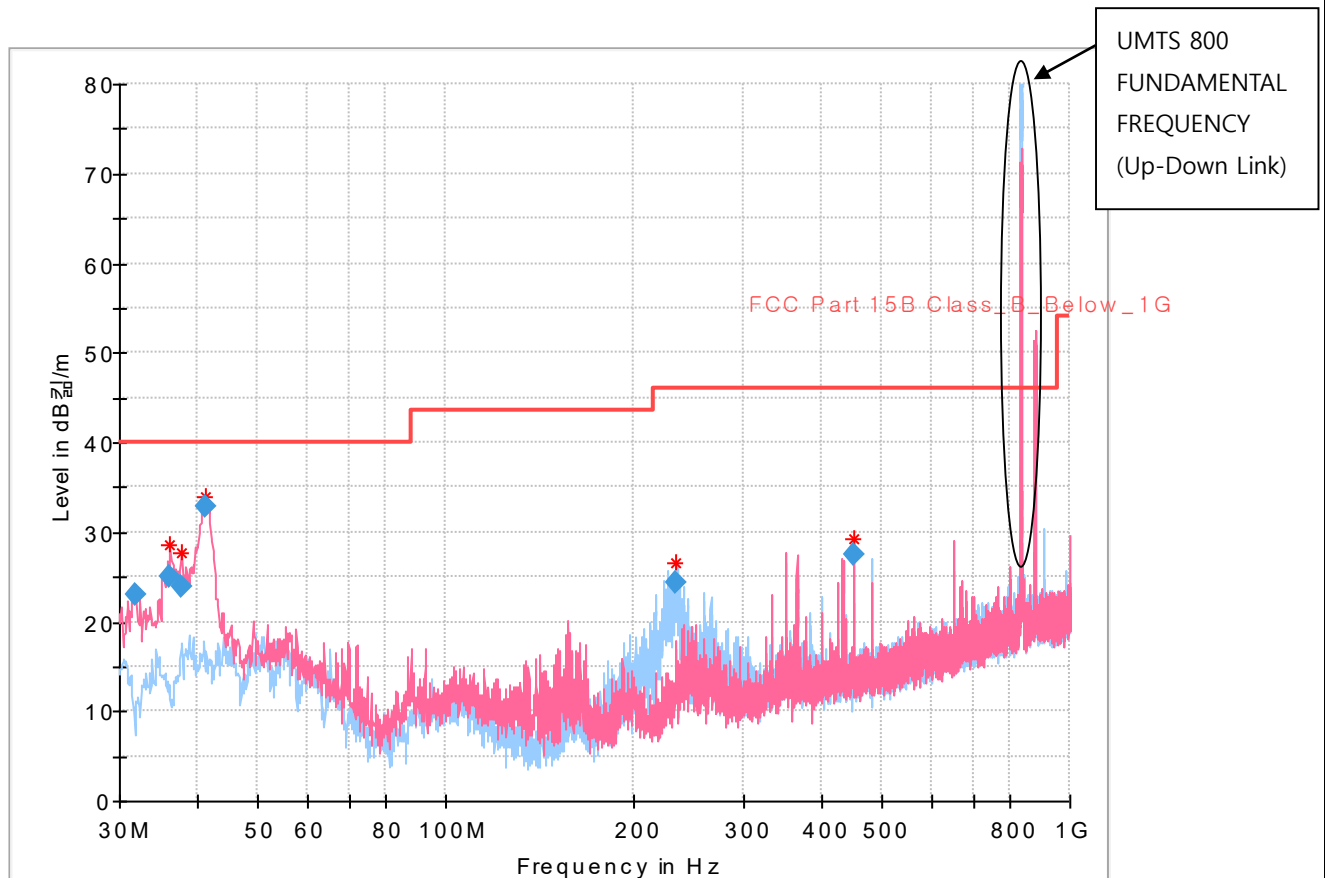


DATA (Below 1 GHz : MODE 7_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 7_MID



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	23.06	40.00	16.94	1000.0	120.000	100.0	V	258.0	-23.5
36.111	25.00	40.00	15.00	1000.0	120.000	100.0	V	285.0	-22.2
37.760	23.97	40.00	16.03	1000.0	120.000	100.0	V	285.0	-21.0
41.349	32.93	40.00	7.07	1000.0	120.000	100.0	V	66.0	-20.0
232.924	24.27	46.00	21.73	1000.0	120.000	100.0	H	229.0	-19.7
450.010	27.53	46.00	18.47	1000.0	120.000	100.0	V	145.0	-14.4

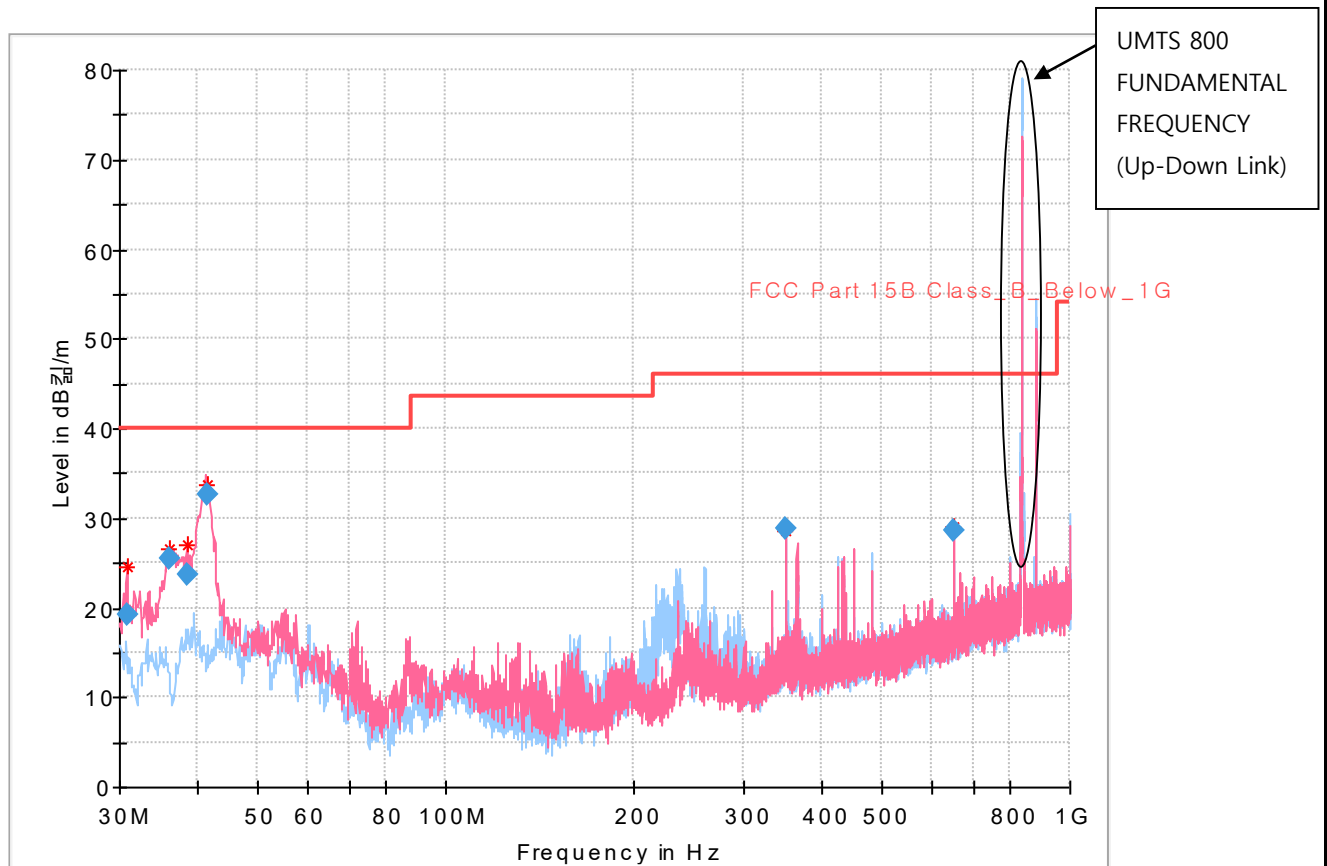


DATA (Below 1 GHz : MODE 7_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 7_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.873	19.18	40.00	20.82	1000.0	120.000	100.0	V	0.0	-23.2
36.111	25.47	40.00	14.53	1000.0	120.000	100.0	V	0.0	-22.2
38.439	23.59	40.00	16.41	1000.0	120.000	100.0	V	41.0	-20.7
41.543	32.66	40.00	7.34	1000.0	120.000	100.0	V	0.0	-19.9
350.003	28.77	46.00	17.23	1000.0	120.000	100.0	V	27.0	-16.1
650.024	28.57	46.00	17.43	1000.0	120.000	100.0	V	115.0	-11.0

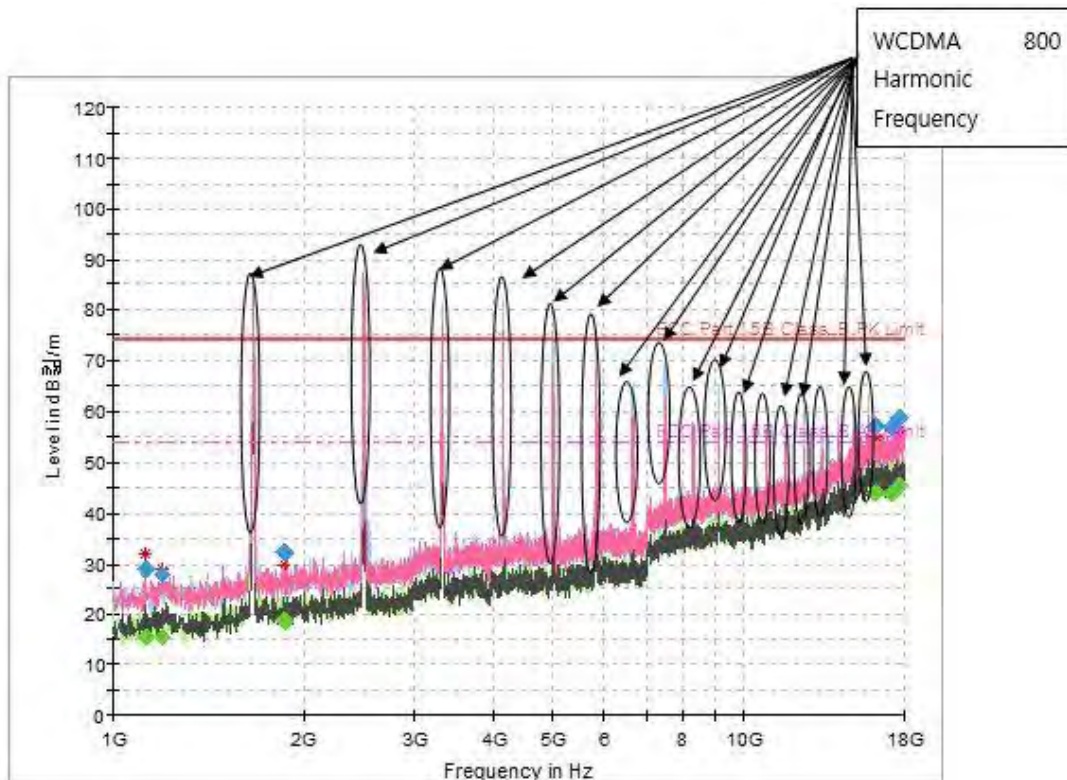


DATA (Above 1 GHz : MODE 7_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE MODE 7_LOW



Final Result

Frequency (MHz)	MaxPeak (dB μ V/m)	CAverage (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	---	15.52	54.00	38.48	1000.0	1000.000	99.9	V	216.0	-19.5
1124.100	28.73	---	74.00	45.27	1000.0	1000.000	99.9	V	216.0	-19.5
1200.600	---	15.34	54.00	38.66	1000.0	1000.000	99.9	V	137.0	-19.2
1200.600	27.93	---	74.00	46.07	1000.0	1000.000	99.9	V	137.0	-19.2
1873.800	32.03	---	74.00	41.97	1000.0	1000.000	99.9	H	356.0	-14.8
1873.800	---	18.61	54.00	35.39	1000.0	1000.000	99.9	H	356.0	-14.8
16165.700	57.13	---	74.00	16.87	1000.0	1000.000	99.9	V	68.0	9.2
16165.700	---	43.92	54.00	10.08	1000.0	1000.000	99.9	V	68.0	9.2
17248.600	---	43.82	54.00	10.18	1000.0	1000.000	99.9	V	68.0	9.6
17248.600	56.86	---	74.00	17.14	1000.0	1000.000	99.9	V	68.0	9.6
17716.100	---	45.31	54.00	8.69	1000.0	1000.000	99.9	V	102.0	10.6
17716.100	58.52	---	74.00	15.48	1000.0	1000.000	99.9	V	102.0	10.6

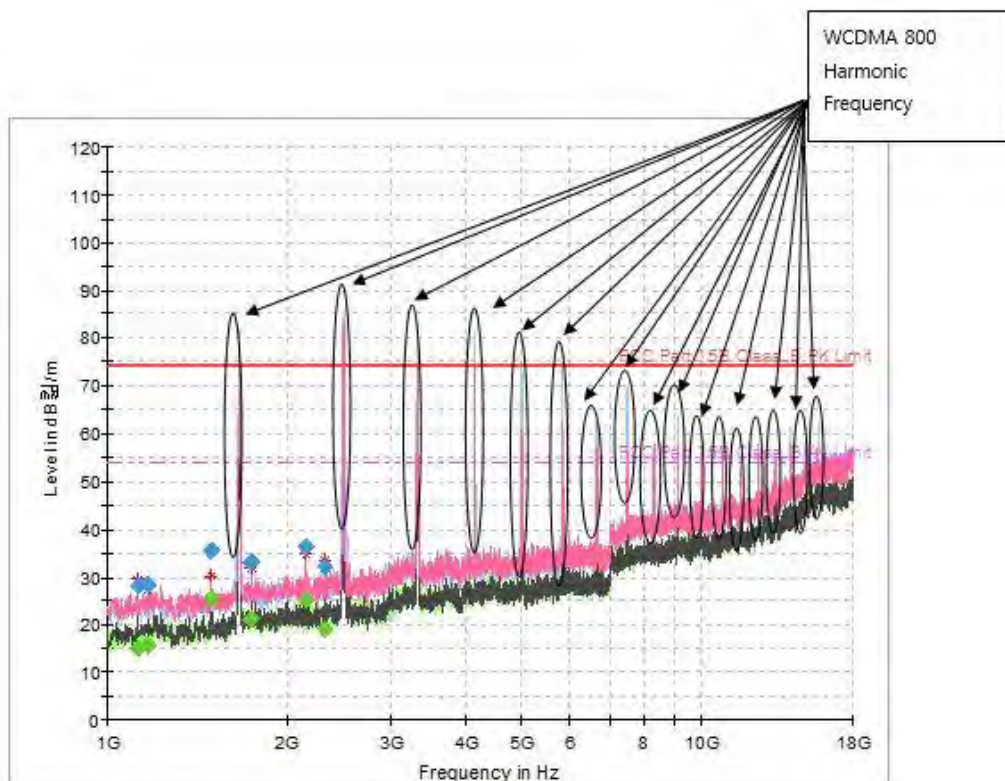


DATA (Above 1 GHz : MODE 7_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Test Site: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 7_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	28.22	---	74.00	45.78	1000.0	1000.000	99.9	V	146.0	-19.5
1124.100	---	15.21	54.00	38.79	1000.0	1000.000	99.9	V	146.0	-19.5
1166.600	---	15.87	54.00	38.13	1000.0	1000.000	99.9	V	189.0	-19.3
1166.600	28.62	---	74.00	45.38	1000.0	1000.000	99.9	V	189.0	-19.3
1499.800	---	25.31	54.00	28.69	1000.0	1000.000	99.9	V	146.0	-16.7
1499.800	35.56	---	74.00	38.44	1000.0	1000.000	99.9	V	146.0	-16.7
1749.700	---	20.98	54.00	33.02	1000.0	1000.000	99.9	V	146.0	-15.3
1749.700	33.07	---	74.00	40.93	1000.0	1000.000	99.9	V	146.0	-15.3
2164.500	36.10	---	74.00	37.90	1000.0	1000.000	99.9	V	257.0	-13.4
2164.500	---	25.21	54.00	28.79	1000.0	1000.000	99.9	V	257.0	-13.4
2329.400	---	19.04	54.00	34.96	1000.0	1000.000	99.9	V	110.0	-13.3
2329.400	32.09	---	74.00	41.91	1000.0	1000.000	99.9	V	110.0	-13.3

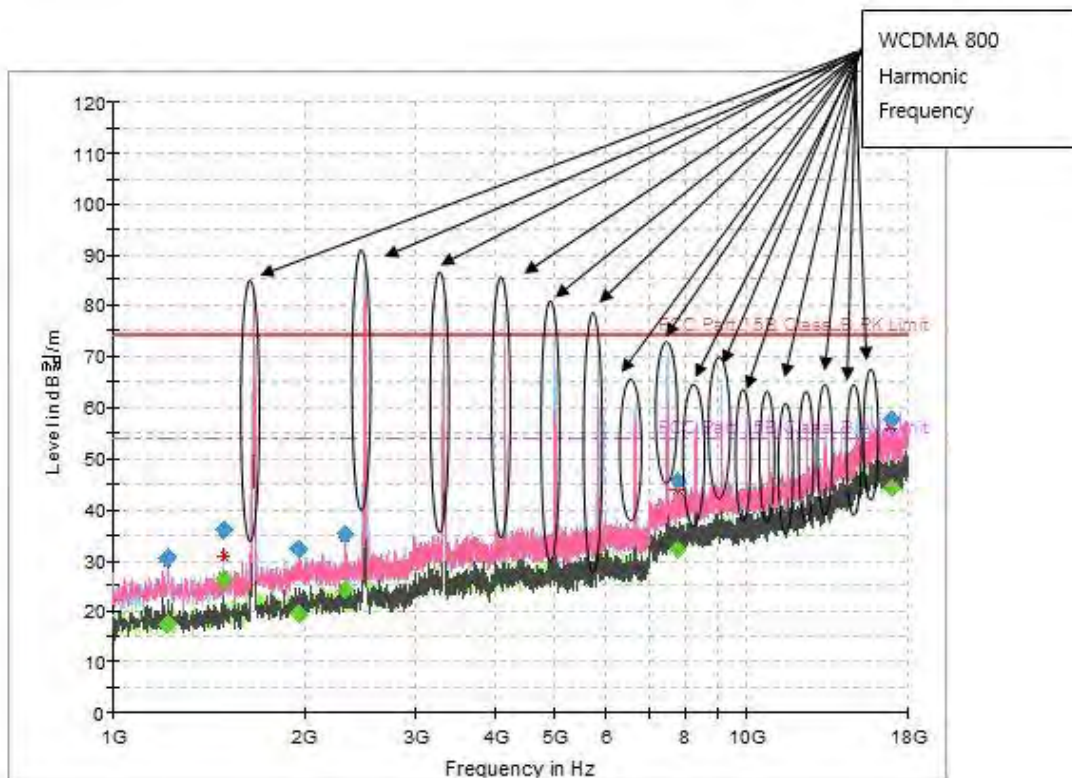


DATA (Above 1 GHz : MODE 7_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 7_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1221.000	30.48	---	74.00	43.52	1000.0	1000.000	99.9	V	182.0	-18.7
1221.000	---	17.35	54.00	36.65	1000.0	1000.000	99.9	V	182.0	-18.7
1499.800	35.90	---	74.00	38.10	1000.0	1000.000	99.9	H	121.0	-16.7
1499.800	---	26.29	54.00	27.71	1000.0	1000.000	99.9	H	121.0	-16.7
1963.900	---	19.29	54.00	34.71	1000.0	1000.000	99.9	V	256.0	-13.9
1963.900	32.09	---	74.00	41.91	1000.0	1000.000	99.9	V	256.0	-13.9
2331.100	---	24.05	54.00	29.95	1000.0	1000.000	99.9	V	256.0	-13.3
2331.100	35.35	---	74.00	38.65	1000.0	1000.000	99.9	V	256.0	-13.3
7800.000	45.56	---	74.00	28.44	1000.0	1000.000	99.9	H	359.0	0.2
7800.000	---	32.11	54.00	21.89	1000.0	1000.000	99.9	H	359.0	0.2
16866.100	57.66	---	74.00	16.34	1000.0	1000.000	99.9	H	359.0	9.5
16866.100	---	44.18	54.00	9.82	1000.0	1000.000	99.9	H	359.0	9.5

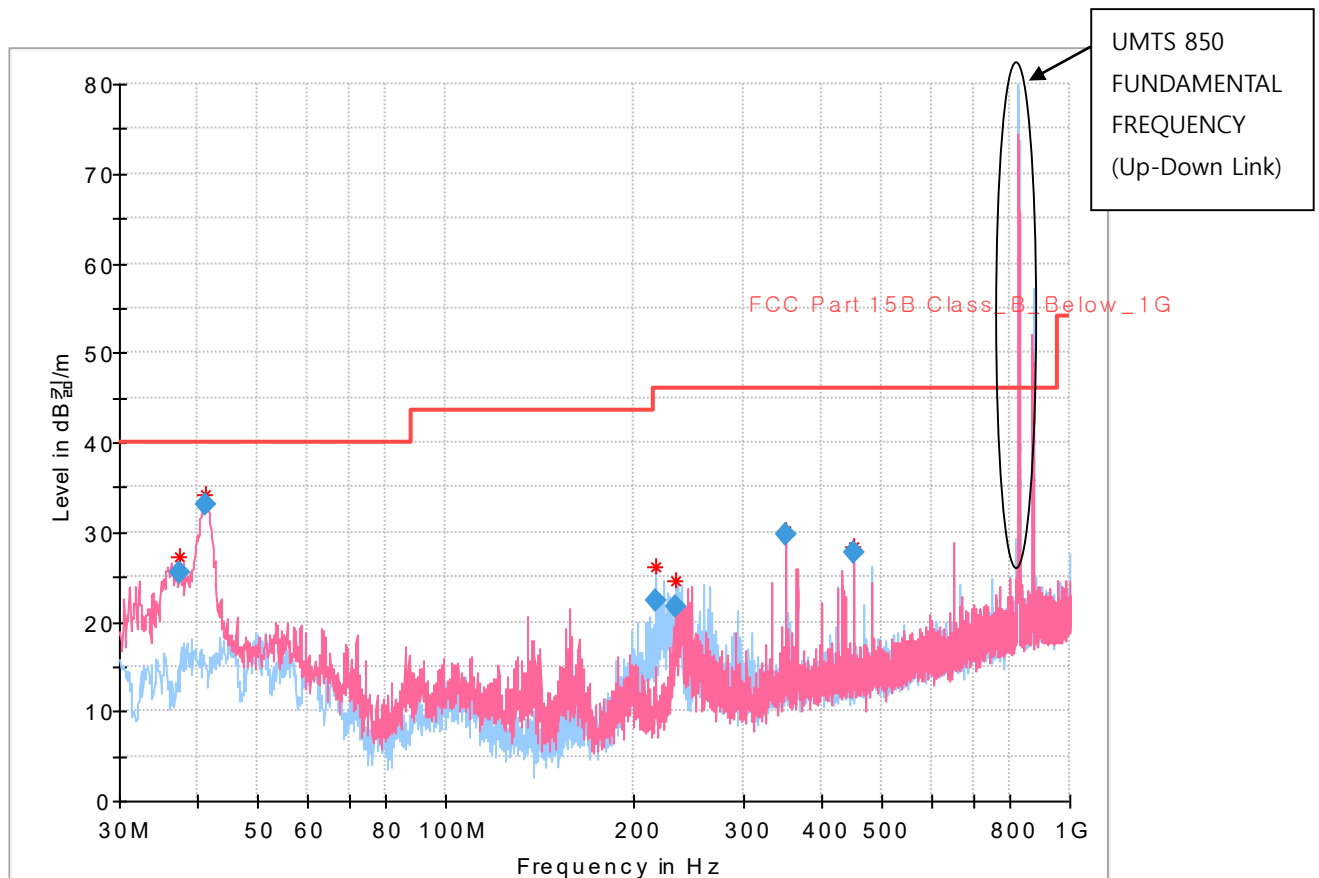


DATA (Below 1 GHz : MODE 8_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 8_LOW



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
37.566	25.38	40.00	14.62	1000.0	120.000	100.0	V	258.0	-21.2
41.252	33.12	40.00	6.88	1000.0	120.000	100.0	V	62.0	-20.0
216.919	22.31	46.00	23.69	1000.0	120.000	100.0	H	6.0	-21.2
233.797	21.68	46.00	24.32	1000.0	120.000	100.0	H	43.0	-19.7
350.003	29.72	46.00	16.28	1000.0	120.000	100.0	H	138.0	-16.1
450.010	27.79	46.00	18.21	1000.0	120.000	100.0	V	130.0	-14.4

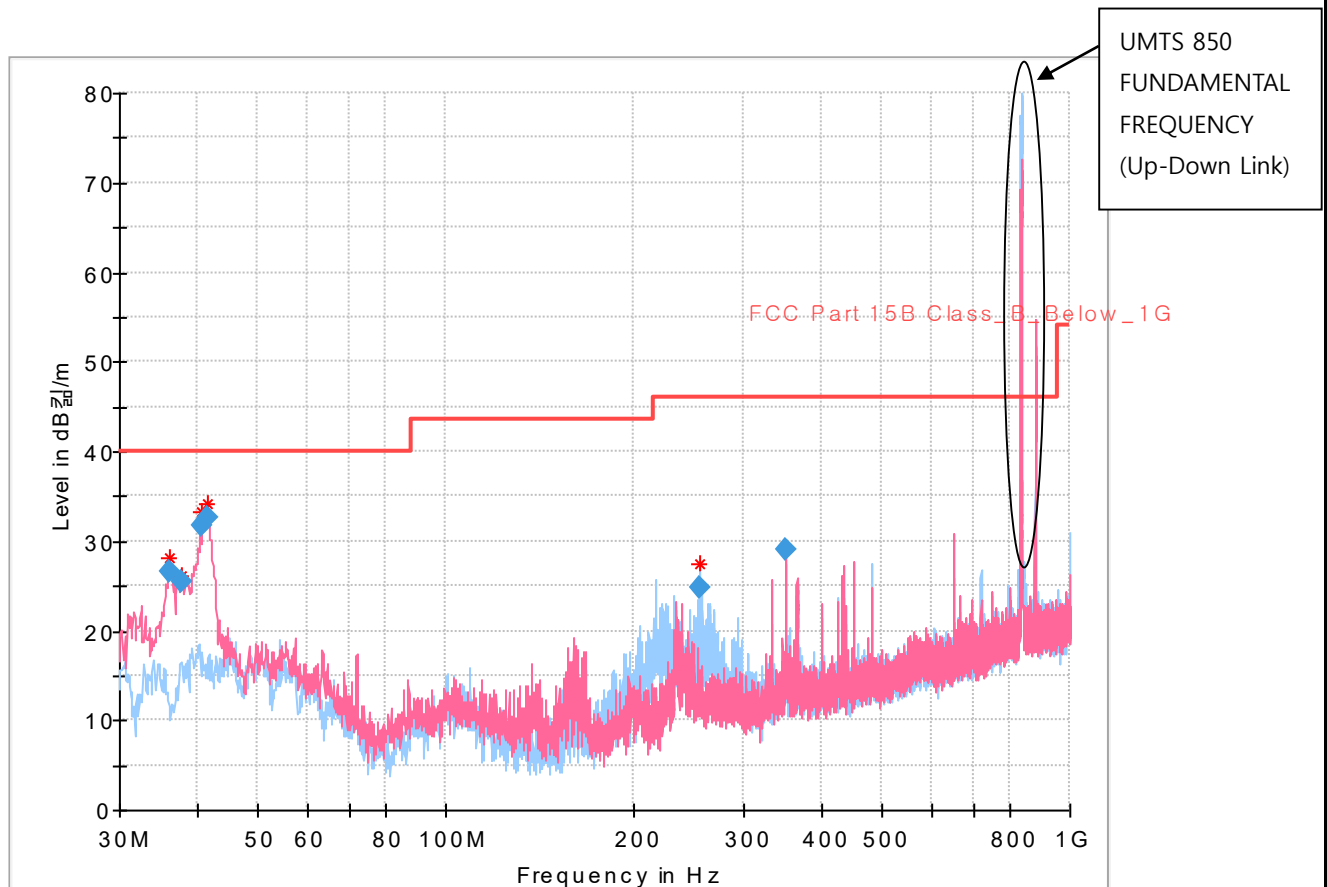


DATA (Below 1 GHz : MODE 8_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 8_MID



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.111	26.57	40.00	13.43	1000.0	120.000	100.0	V	274.0	-22.2
37.663	25.43	40.00	14.57	1000.0	120.000	100.0	V	274.0	-21.1
40.670	31.78	40.00	8.22	1000.0	120.000	100.0	V	232.0	-20.3
41.446	32.65	40.00	7.35	1000.0	120.000	100.0	V	313.0	-19.9
254.749	24.77	46.00	21.23	1000.0	120.000	100.0	H	214.0	-18.5
350.003	29.13	46.00	16.87	1000.0	120.000	100.0	V	205.0	-16.1

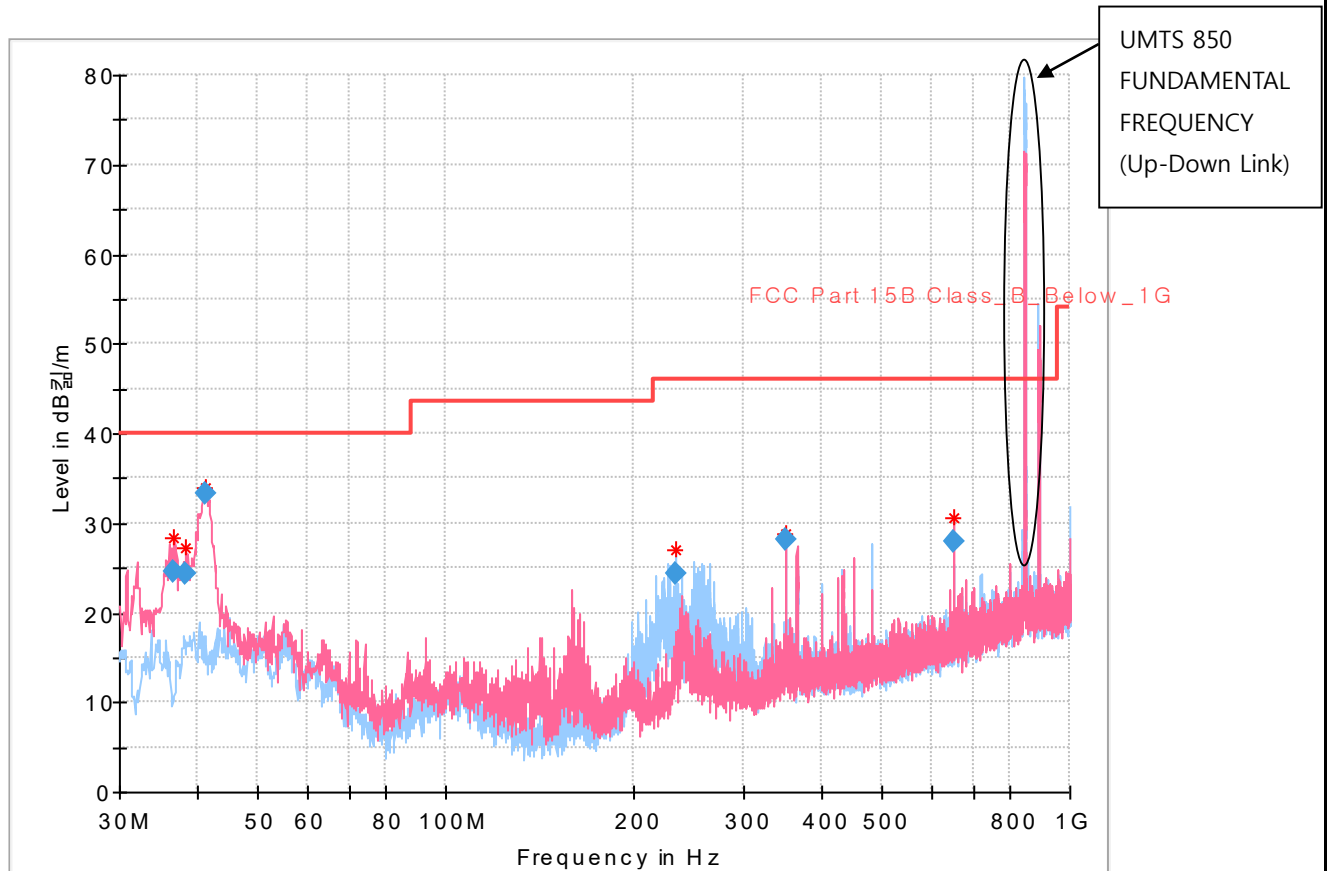


DATA (Below 1 GHz : MODE 8_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 8_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.693	24.51	40.00	15.49	1000.0	120.000	100.0	V	278.0	-21.9
38.342	24.30	40.00	15.70	1000.0	120.000	100.0	V	278.0	-20.7
41.155	33.31	40.00	6.69	1000.0	120.000	100.0	V	278.0	-20.1
233.991	24.43	46.00	21.57	1000.0	120.000	100.0	H	225.0	-19.7
350.003	28.26	46.00	17.74	1000.0	120.000	100.0	V	32.0	-16.1
650.024	27.94	46.00	18.06	1000.0	120.000	100.0	V	127.0	-11.0

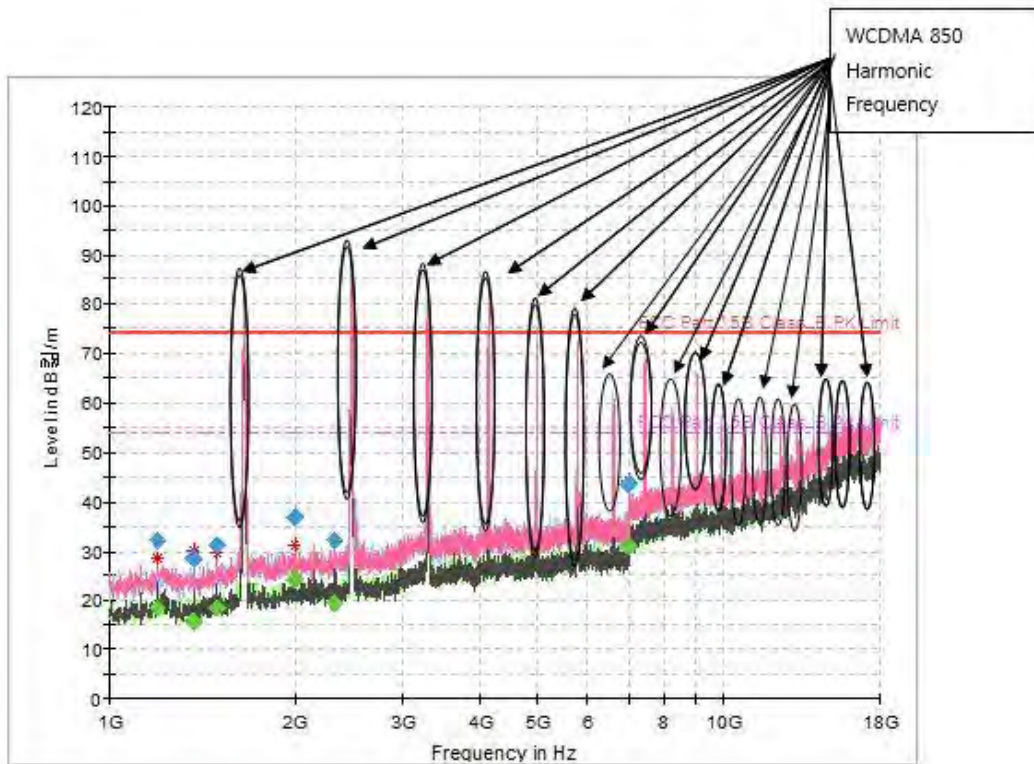


DATA (Above 1 GHz : MODE 8_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 8_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	32.17	---	74.00	41.83	1000.0	1000.000	99.9	V	258.0	-19.2
1198.900	---	18.60	54.00	35.40	1000.0	1000.000	99.9	V	258.0	-19.2
1374.000	---	15.80	54.00	38.20	1000.0	1000.000	99.9	V	223.0	-18.1
1374.000	28.59	---	74.00	45.41	1000.0	1000.000	99.9	V	223.0	-18.1
1498.100	31.24	---	74.00	42.76	1000.0	1000.000	99.9	V	150.0	-16.7
1498.100	---	18.53	54.00	35.47	1000.0	1000.000	99.9	V	150.0	-16.7
1999.600	---	24.28	54.00	29.72	1000.0	1000.000	99.9	V	150.0	-13.7
1999.600	36.79	---	74.00	37.21	1000.0	1000.000	99.9	V	150.0	-13.7
2329.400	32.30	---	74.00	41.70	1000.0	1000.000	99.9	V	150.0	-13.3
2329.400	---	19.53	54.00	34.47	1000.0	1000.000	99.9	V	150.0	-13.3
7033.300	43.47	---	74.00	30.53	1000.0	1000.000	99.9	H	8.0	-1.8
7033.300	---	30.95	54.00	23.05	1000.0	1000.000	99.9	H	8.0	-1.8

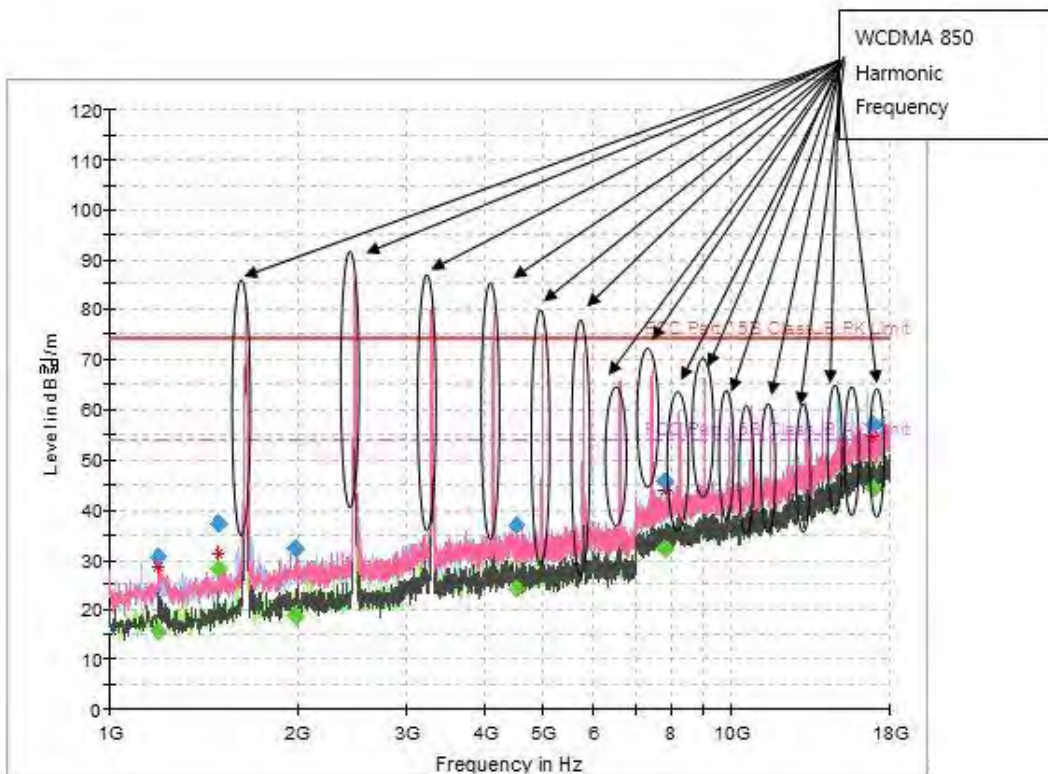


DATA (Above 1 GHz : MODE 8_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 8_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	30.49	---	74.00	43.51	1000.0	1000.000	99.9	V	141.0	-19.2
1198.900	---	15.59	54.00	38.41	1000.0	1000.000	99.9	V	141.0	-19.2
1499.800	37.17	---	74.00	36.83	1000.0	1000.000	99.9	V	141.0	-16.7
1499.800	---	28.31	54.00	25.69	1000.0	1000.000	99.9	V	141.0	-16.7
1989.400	32.13	---	74.00	41.87	1000.0	1000.000	99.9	V	141.0	-13.8
1989.400	---	18.82	54.00	35.18	1000.0	1000.000	99.9	V	141.0	-13.8
4527.500	36.90	---	74.00	37.10	1000.0	1000.000	99.9	V	141.0	-5.5
4527.500	---	24.07	54.00	29.93	1000.0	1000.000	99.9	V	141.0	-5.5
7835.700	---	32.01	54.00	21.99	1000.0	1000.000	99.9	H	183.0	0.2
7835.700	45.52	---	74.00	28.48	1000.0	1000.000	99.9	H	183.0	0.2
16923.900	---	44.30	54.00	9.70	1000.0	1000.000	99.9	V	3.0	9.5
16923.900	57.15	---	74.00	16.85	1000.0	1000.000	99.9	V	3.0	9.5

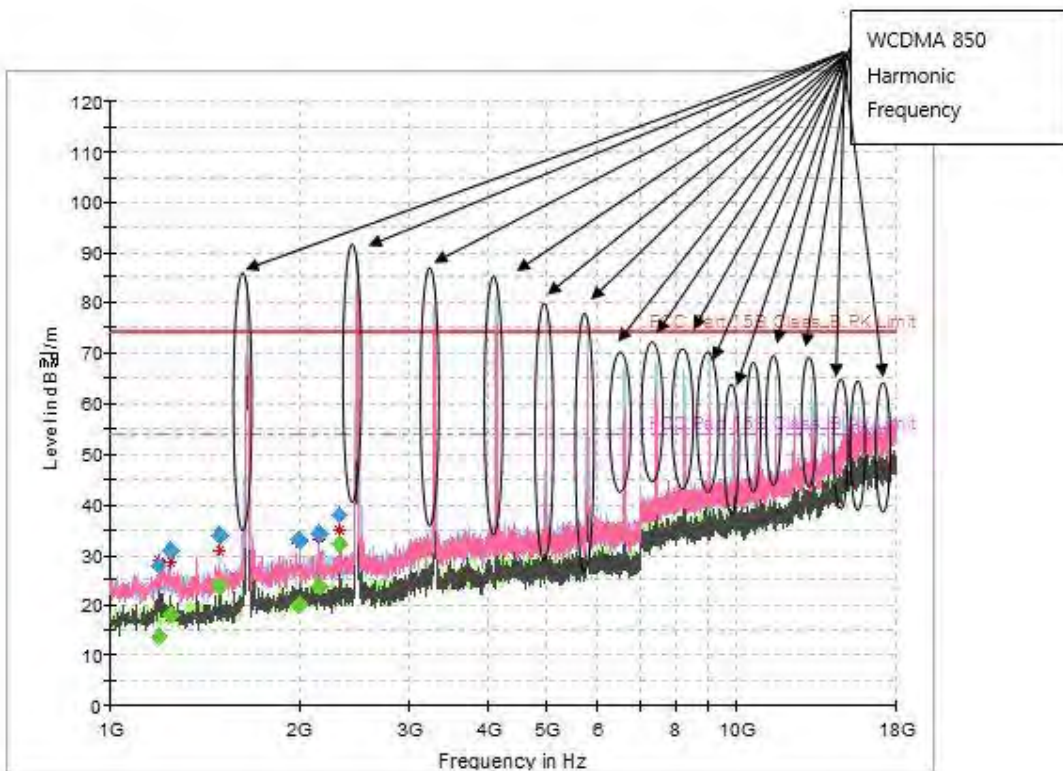


DATA (Above 1 GHz : MODE 8_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 8_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	27.80	---	74.00	46.20	1000.0	1000.000	99.9	V	102.0	-19.2
1198.900	---	13.71	54.00	40.29	1000.0	1000.000	99.9	V	102.0	-19.2
1249.900	---	18.23	54.00	35.77	1000.0	1000.000	99.9	V	222.0	-18.8
1249.900	30.79	---	74.00	43.21	1000.0	1000.000	99.9	V	222.0	-18.8
1499.800	---	23.88	54.00	30.12	1000.0	1000.000	99.9	H	0.0	-16.7
1499.800	33.98	---	74.00	40.02	1000.0	1000.000	99.9	H	0.0	-16.7
1999.600	---	19.96	54.00	34.04	1000.0	1000.000	99.9	V	102.0	-13.7
1999.600	32.90	---	74.00	41.10	1000.0	1000.000	99.9	V	102.0	-13.7
2164.500	---	23.69	54.00	30.31	1000.0	1000.000	99.9	V	148.0	-13.4
2164.500	34.30	---	74.00	39.70	1000.0	1000.000	99.9	V	148.0	-13.4
2331.100	37.99	---	74.00	36.01	1000.0	1000.000	99.9	V	102.0	-13.3
2331.100	---	32.10	54.00	21.90	1000.0	1000.000	99.9	V	102.0	-13.3

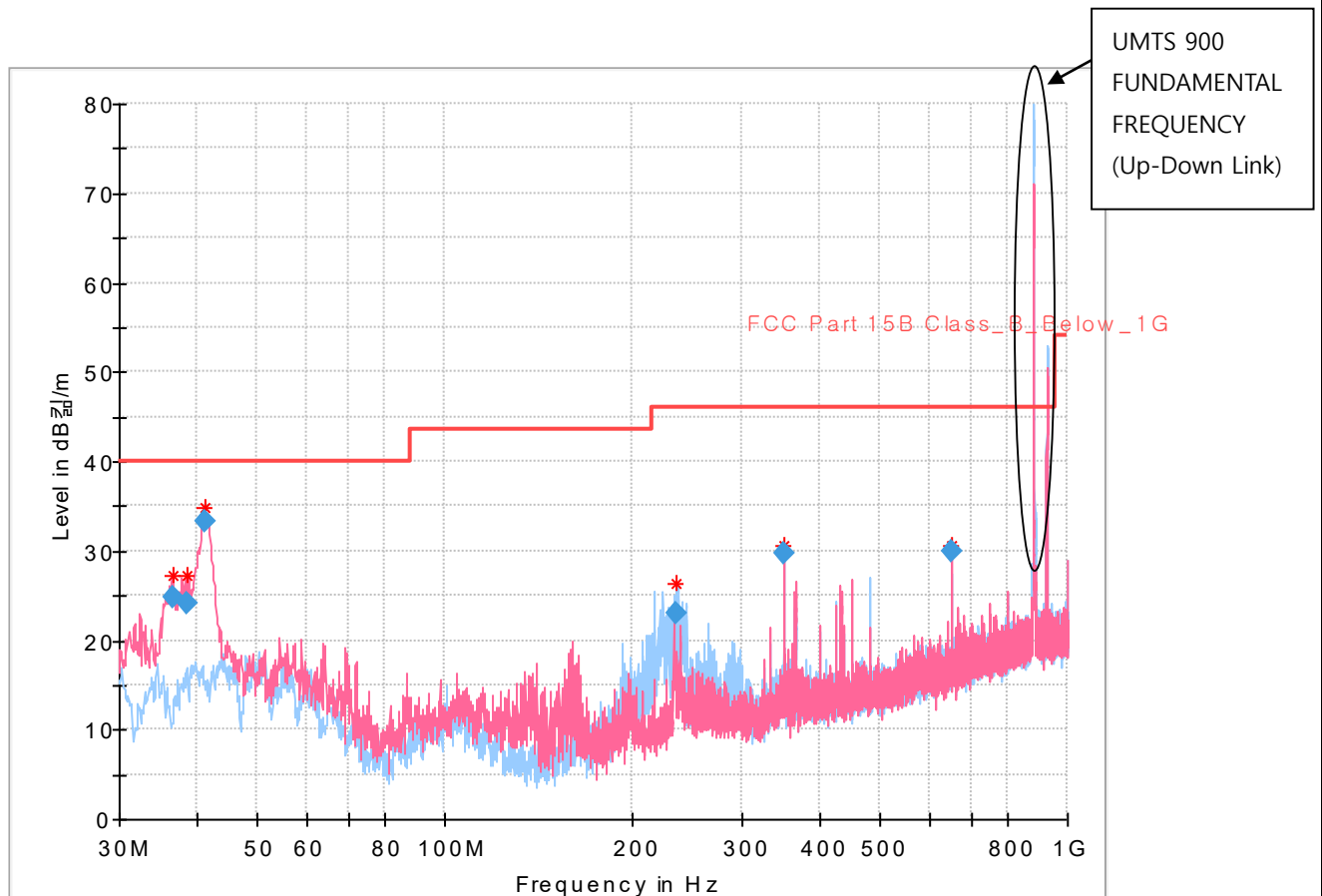


DATA (Below 1 GHz : MODE 9_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 9_LOW



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.499	24.75	40.00	15.25	1000.0	120.000	100.0	V	266.0	-22.1
38.633	24.17	40.00	15.83	1000.0	120.000	100.0	V	266.0	-20.7
41.252	33.36	40.00	6.64	1000.0	120.000	100.0	V	266.0	-20.0
235.155	22.91	46.00	23.09	1000.0	120.000	100.0	H	222.0	-19.6
350.003	29.73	46.00	16.27	1000.0	120.000	100.0	H	115.0	-16.1
650.024	29.96	46.00	16.04	1000.0	120.000	100.0	V	118.0	-11.0

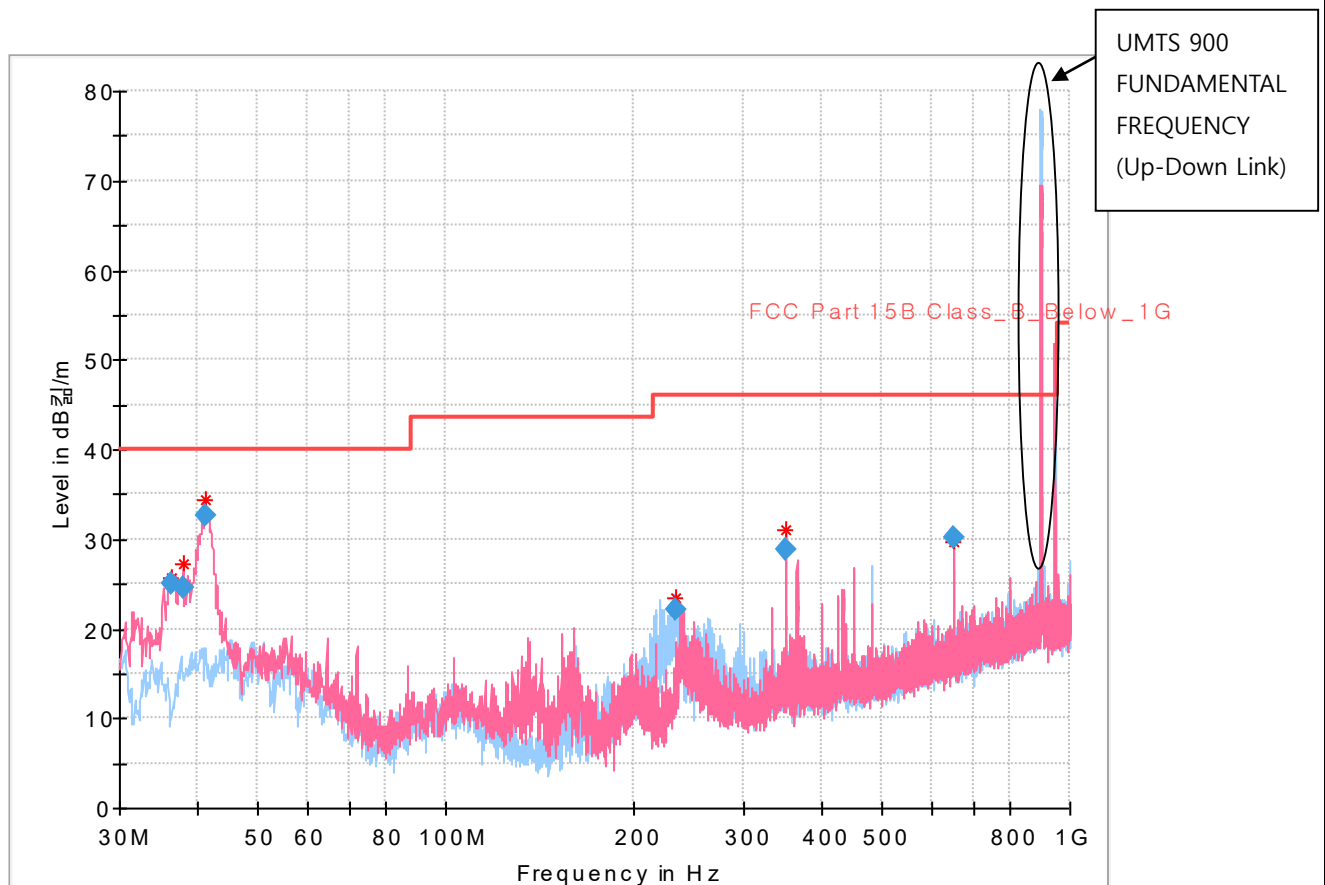


DATA (Below 1 GHz : MODE 9_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 9_MID



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.305	25.12	40.00	14.88	1000.0	120.000	100.0	V	76.0	-22.1
37.857	24.53	40.00	15.47	1000.0	120.000	100.0	V	303.0	-21.0
41.058	32.61	40.00	7.39	1000.0	120.000	100.0	V	303.0	-20.1
233.894	22.17	46.00	23.83	1000.0	120.000	100.0	H	251.0	-19.7
350.003	28.75	46.00	17.25	1000.0	120.000	100.0	H	251.0	-16.1
650.024	30.24	46.00	15.76	1000.0	120.000	100.0	V	110.0	-11.0

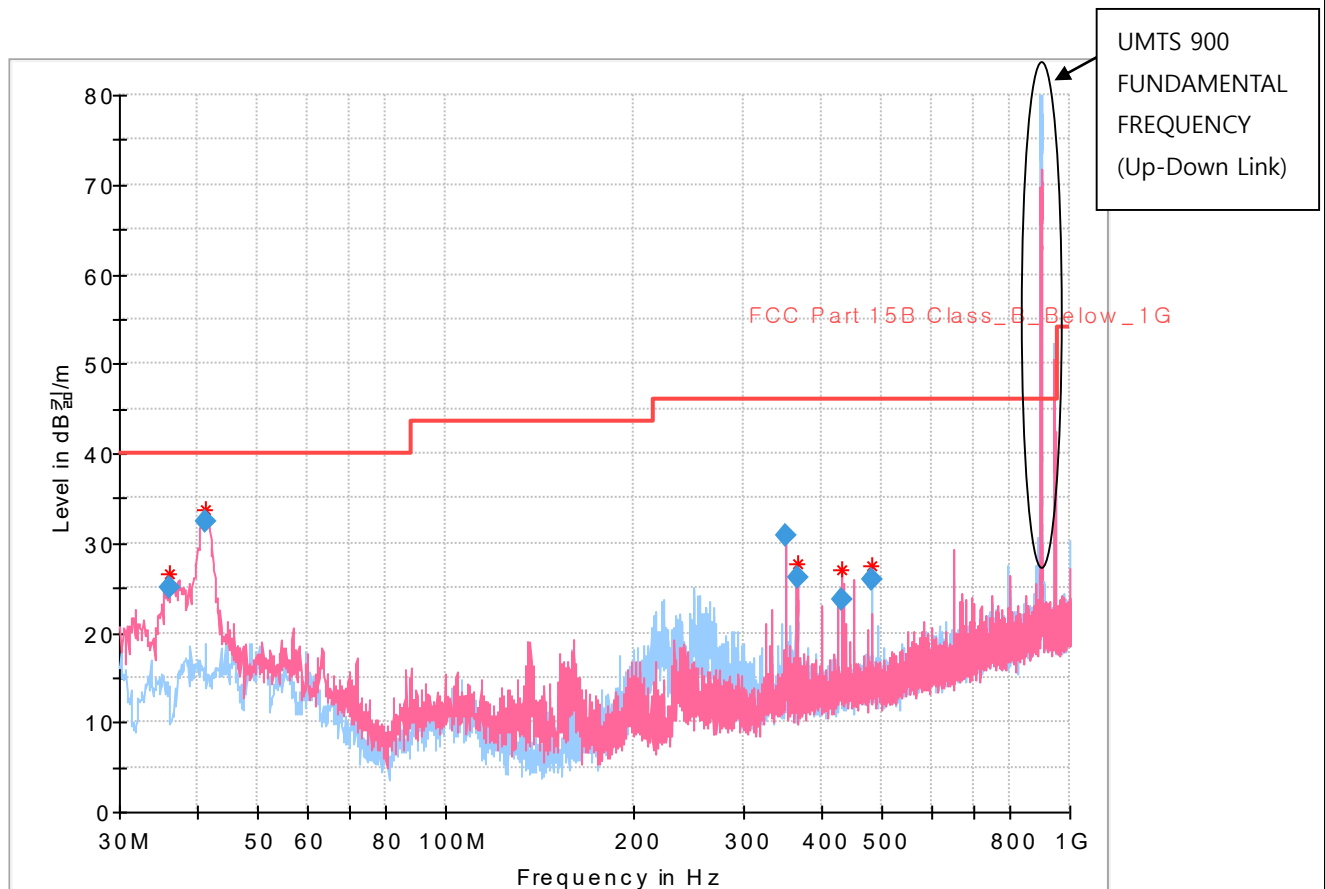


DATA (Below 1 GHz : MODE 9_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 9_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.208	25.00	40.00	15.00	1000.0	120.000	100.0	V	0.0	-22.1
41.252	32.40	40.00	7.60	1000.0	120.000	100.0	V	93.0	-20.0
350.003	30.94	46.00	15.06	1000.0	120.000	100.0	H	260.0	-16.1
365.135	26.23	46.00	19.77	1000.0	120.000	100.0	V	160.0	-16.5
431.386	23.77	46.00	22.23	1000.0	120.000	100.0	V	147.0	-14.8
479.983	25.86	46.00	20.14	1000.0	120.000	100.0	H	180.0	-13.8

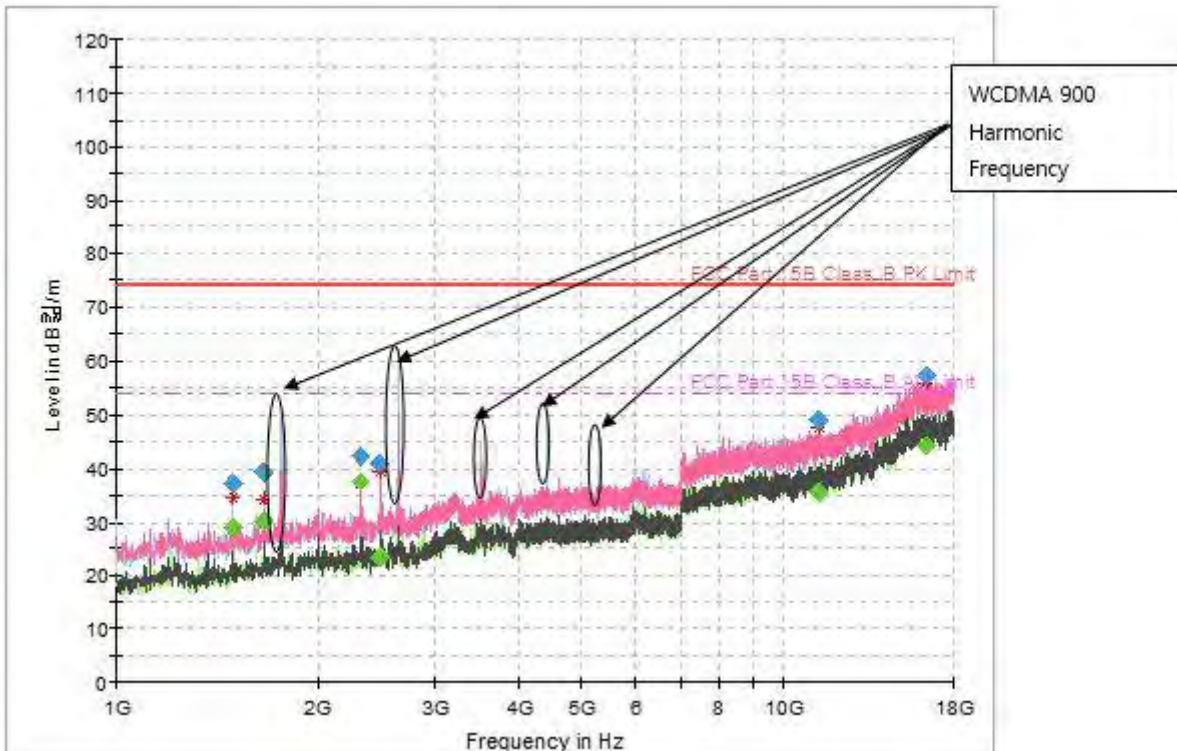


DATA (Above 1 GHz : MODE 9_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 9_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	37.34	---	74.00	36.66	1000.0	1000.000	99.9	H	318.0	-16.7
1499.800	---	28.76	54.00	25.24	1000.0	1000.000	99.9	H	318.0	-16.7
1664.700	39.12	---	74.00	34.88	1000.0	1000.000	99.9	H	70.0	-15.9
1664.700	---	30.31	54.00	23.69	1000.0	1000.000	99.9	H	70.0	-15.9
2331.100	42.40	---	74.00	31.60	1000.0	1000.000	99.9	V	95.0	-13.3
2331.100	---	37.51	54.00	16.49	1000.0	1000.000	99.9	V	95.0	-13.3
2489.200	---	23.33	54.00	30.67	1000.0	1000.000	99.9	V	95.0	-12.5
2489.200	41.05	---	74.00	32.95	1000.0	1000.000	99.9	V	95.0	-12.5
11319.000	---	35.56	54.00	18.44	1000.0	1000.000	99.9	V	262.0	2.9
11319.000	49.09	---	74.00	24.91	1000.0	1000.000	99.9	V	262.0	2.9
16436.000	57.36	---	74.00	16.64	1000.0	1000.000	99.9	H	349.0	9.0
16436.000	---	44.36	54.00	9.64	1000.0	1000.000	99.9	H	349.0	9.0

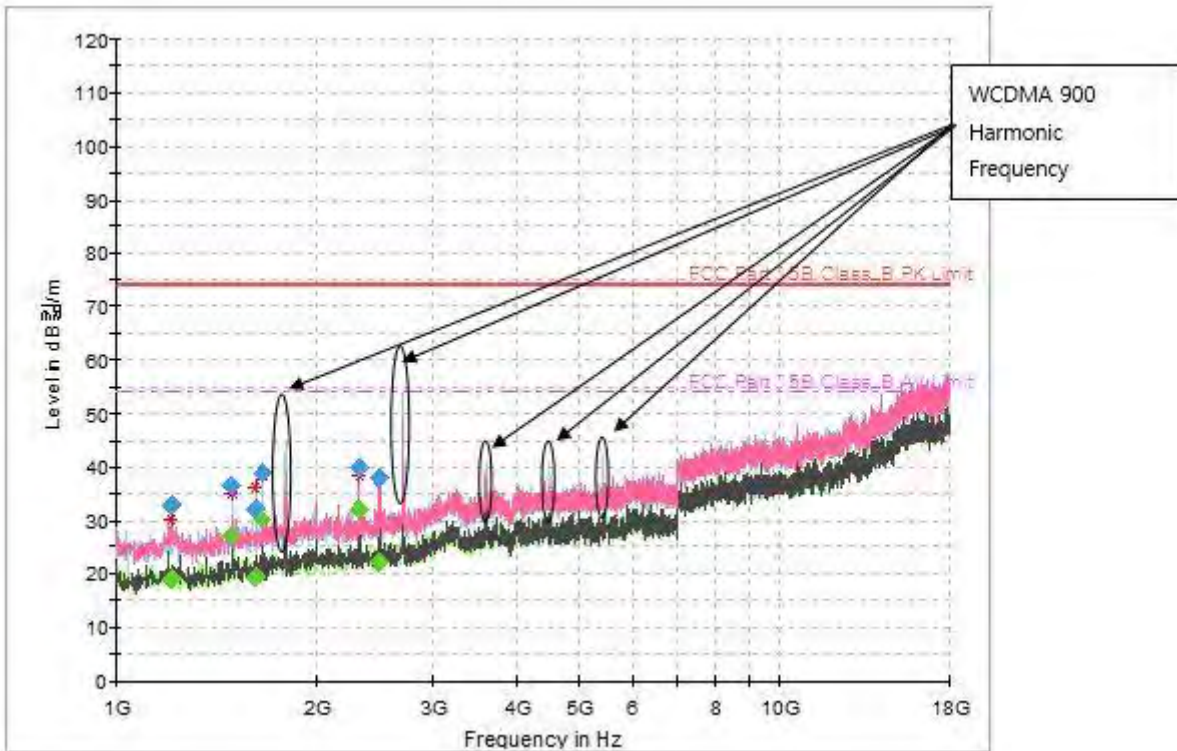


DATA (Above 1 GHz : MODE 9_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Test Site: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 9_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1209.100	---	18.95	54.00	35.05	1000.0	1000.000	99.9	V	113.0	-19.2
1209.100	32.68	---	74.00	41.32	1000.0	1000.000	99.9	V	113.0	-19.2
1499.800	---	27.20	54.00	26.80	1000.0	1000.000	99.9	H	109.0	-16.7
1499.800	36.58	---	74.00	37.42	1000.0	1000.000	99.9	H	109.0	-16.7
1623.900	32.31	---	74.00	41.69	1000.0	1000.000	99.9	H	69.0	-16.2
1623.900	---	19.58	54.00	34.42	1000.0	1000.000	99.9	H	69.0	-16.2
1664.700	---	30.32	54.00	23.68	1000.0	1000.000	99.9	H	142.0	-15.9
1664.700	38.85	---	74.00	35.15	1000.0	1000.000	99.9	H	142.0	-15.9
2331.100	39.73	---	74.00	34.27	1000.0	1000.000	99.9	V	78.0	-13.3
2331.100	---	32.17	54.00	21.83	1000.0	1000.000	99.9	V	78.0	-13.3
2492.600	---	22.17	54.00	31.83	1000.0	1000.000	99.9	V	113.0	-12.5
2492.600	38.02	---	74.00	35.98	1000.0	1000.000	99.9	V	113.0	-12.5

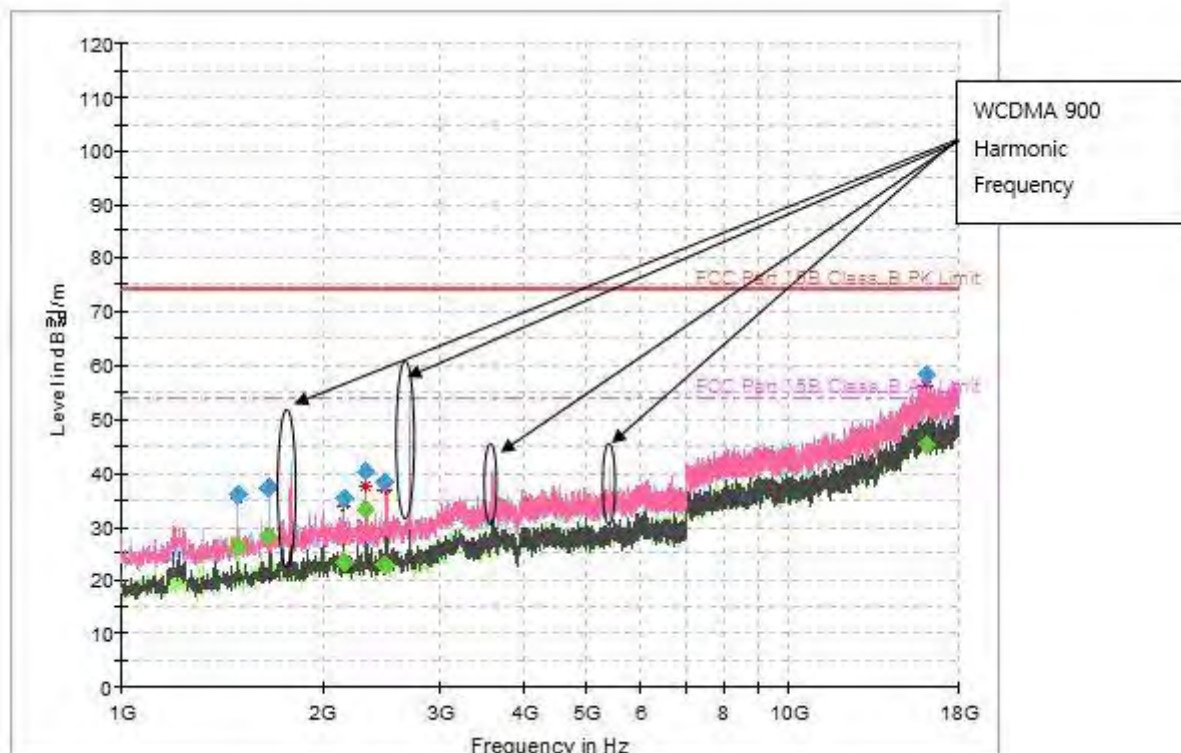


DATA (Above 1 GHz : MODE 9_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 9_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	35.99	---	74.00	38.01	1000.0	1000.000	99.9	H	110.0	-16.7
1499.800	---	26.49	54.00	27.51	1000.0	1000.000	99.9	H	110.0	-16.7
1664.700	---	28.14	54.00	25.86	1000.0	1000.000	99.9	H	38.0	-15.9
1664.700	37.15	---	74.00	36.85	1000.0	1000.000	99.9	H	38.0	-15.9
2164.500	35.15	---	74.00	38.85	1000.0	1000.000	99.9	H	7.0	-13.4
2164.500	---	23.44	54.00	30.56	1000.0	1000.000	99.9	H	7.0	-13.4
2331.100	40.30	---	74.00	33.70	1000.0	1000.000	99.9	V	80.0	-13.3
2331.100	---	33.32	54.00	20.68	1000.0	1000.000	99.9	V	80.0	-13.3
2496.000	---	22.78	54.00	31.22	1000.0	1000.000	99.9	V	114.0	-12.5
2496.000	38.32	---	74.00	35.68	1000.0	1000.000	99.9	V	114.0	-12.5
16080.700	58.46	---	74.00	15.54	1000.0	1000.000	99.9	H	110.0	9.4
16080.700	---	45.16	54.00	8.84	1000.0	1000.000	99.9	H	110.0	9.4

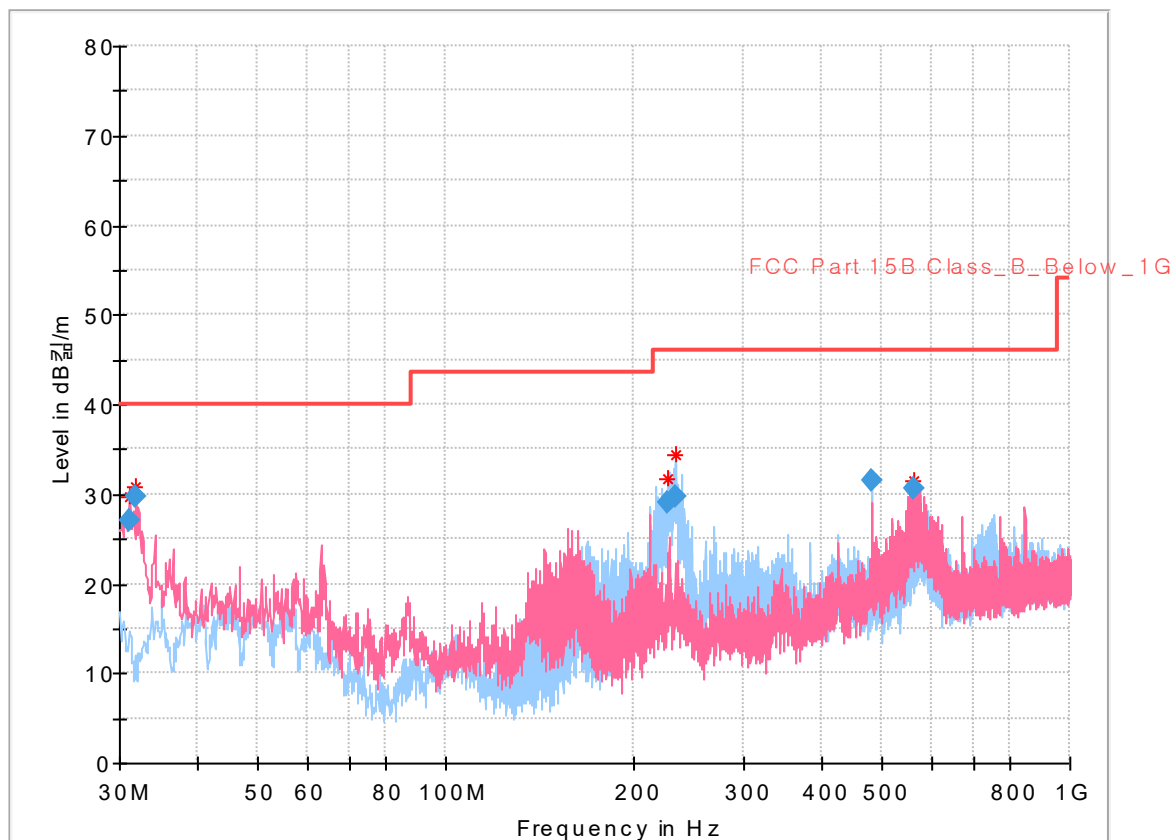


DATA (Below 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 10_LOW



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.067	26.98	40.00	13.02	1000.0	120.000	100.0	V	260.0	-23.4
31.940	29.70	40.00	10.30	1000.0	120.000	100.0	V	0.0	-23.5
226.037	29.11	46.00	16.89	1000.0	120.000	100.0	H	288.0	-20.5
232.730	29.70	46.00	16.30	1000.0	120.000	100.0	H	288.0	-19.7
479.983	31.50	46.00	14.50	1000.0	120.000	100.0	H	89.0	-13.8
564.082	30.71	46.00	15.29	1000.0	120.000	100.0	V	155.0	-12.2

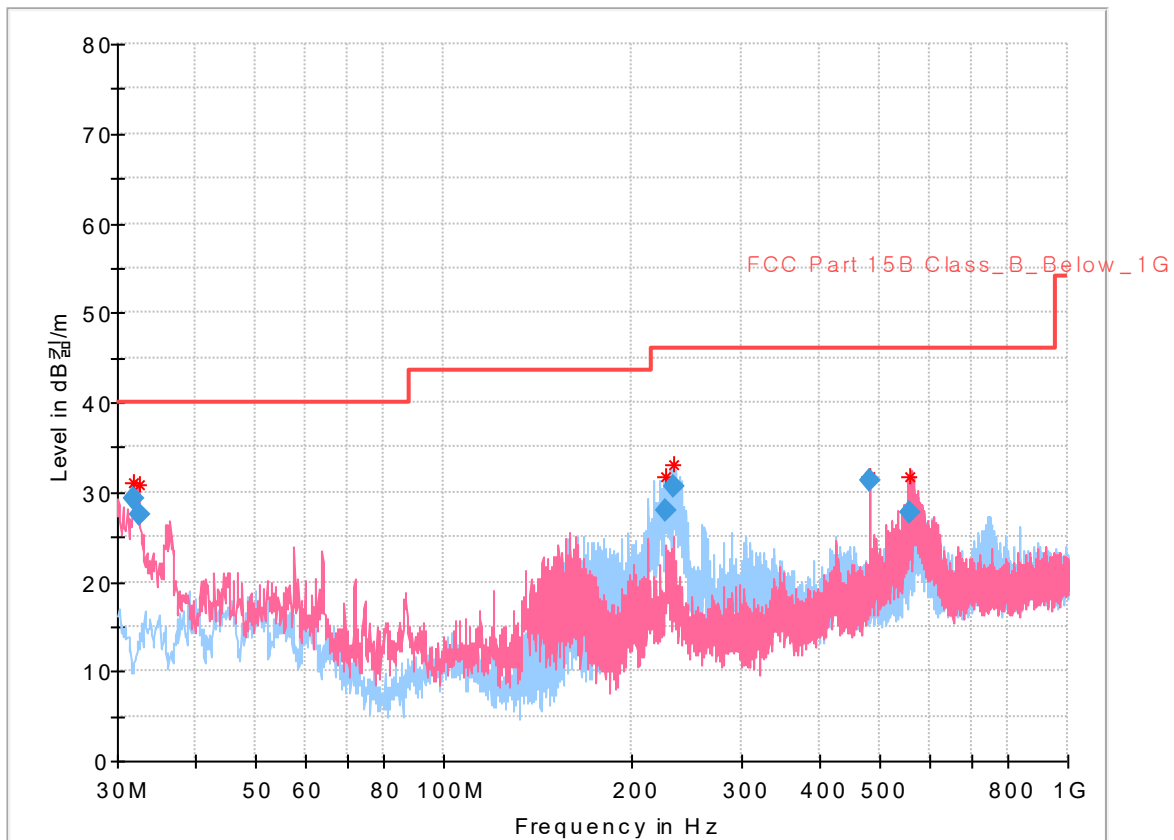


DATA (Below 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 10_MID



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.843	29.37	40.00	10.63	1000.0	120.000	100.0	V	257.0	-23.5
32.425	27.43	40.00	12.57	1000.0	120.000	100.0	V	8.0	-23.2
226.619	27.85	46.00	18.15	1000.0	120.000	100.0	H	218.0	-20.5
233.894	30.70	46.00	15.30	1000.0	120.000	100.0	H	301.0	-19.7
479.983	31.18	46.00	14.82	1000.0	120.000	100.0	H	56.0	-13.8
558.747	27.69	46.00	18.31	1000.0	120.000	100.0	V	174.0	-12.2

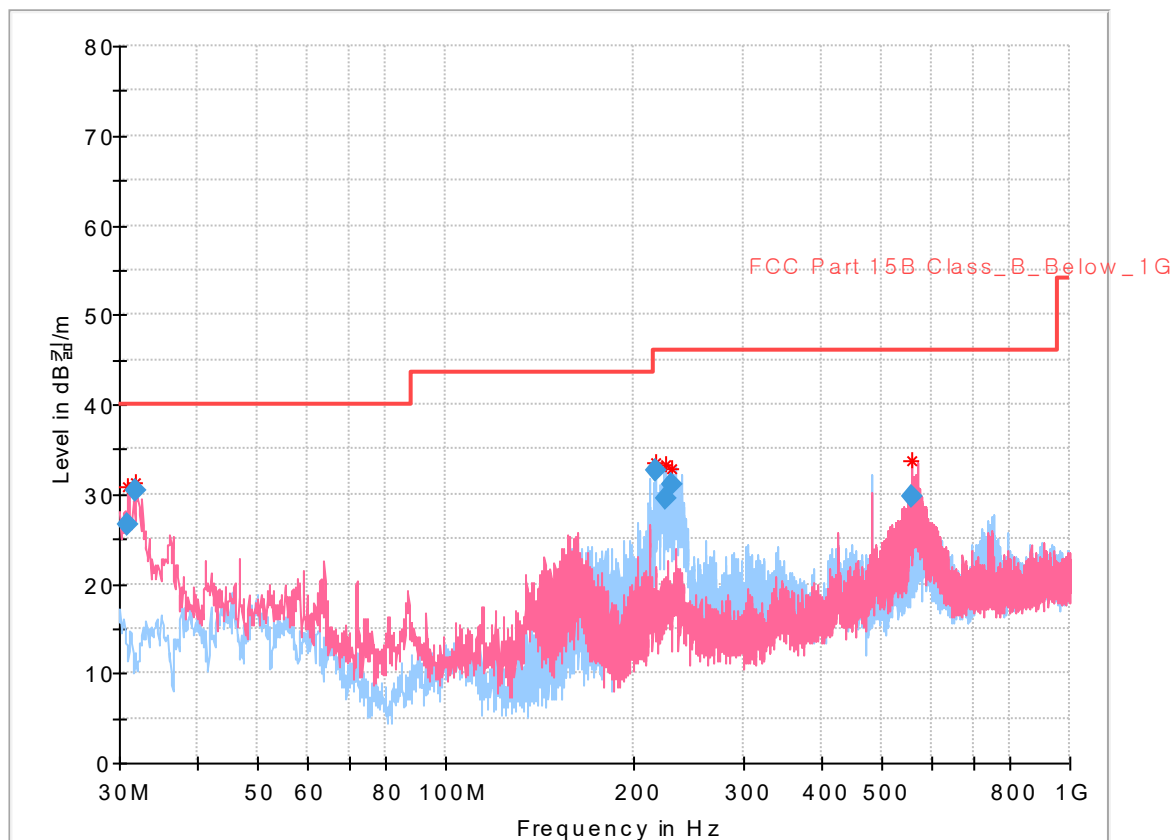


DATA (Below 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 10_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.970	26.63	40.00	13.37	1000.0	120.000	100.0	V	3.0	-23.3
31.940	30.38	40.00	9.62	1000.0	120.000	100.0	V	0.0	-23.5
216.919	32.61	46.00	13.39	1000.0	120.000	100.0	H	265.0	-21.2
224.970	29.46	46.00	16.54	1000.0	120.000	100.0	H	237.0	-20.6
230.305	30.99	46.00	15.01	1000.0	120.000	100.0	H	237.0	-20.0
558.165	29.72	46.00	16.28	1000.0	120.000	100.0	V	172.0	-12.2

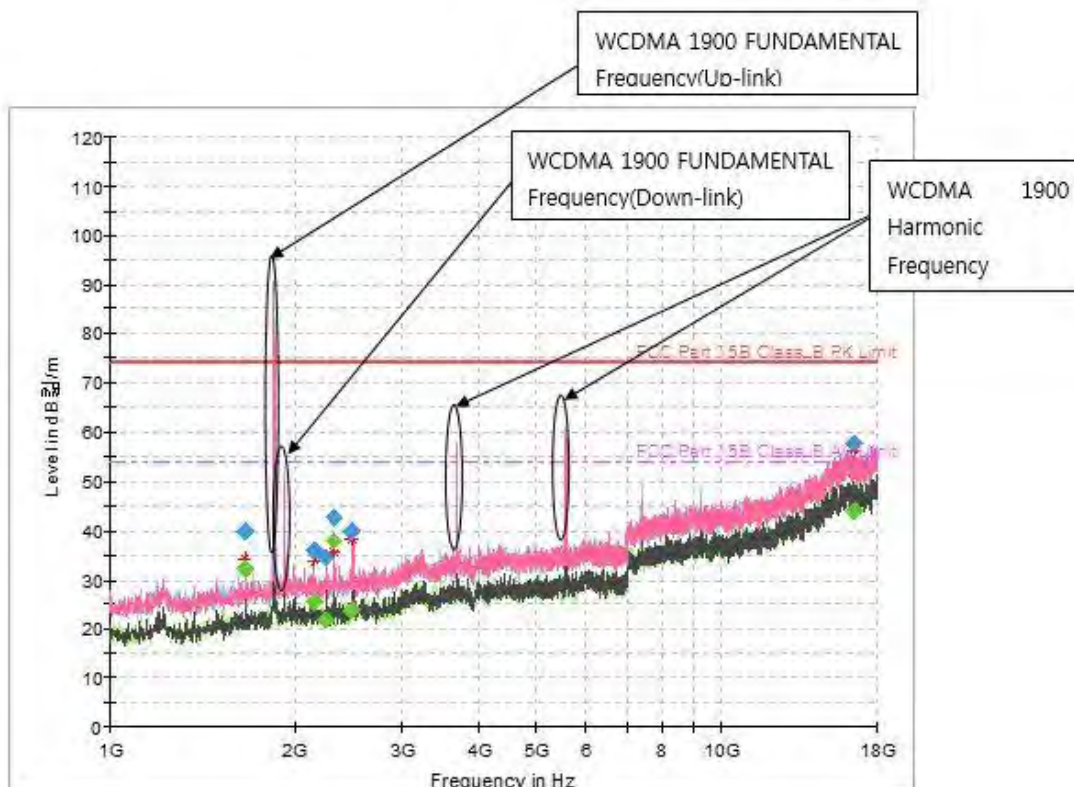


DATA (Above 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1664.700	39.74	---	74.00	34.26	1000.0	1000.000	99.9	H	137.0	-15.9
1664.700	---	32.04	54.00	21.96	1000.0	1000.000	99.9	H	137.0	-15.9
2164.500	---	25.63	54.00	28.37	1000.0	1000.000	99.9	H	69.0	-13.4
2164.500	35.96	---	74.00	38.04	1000.0	1000.000	99.9	H	69.0	-13.4
2249.500	34.69	---	74.00	39.31	1000.0	1000.000	99.9	V	129.0	-13.4
2249.500	---	21.94	54.00	32.06	1000.0	1000.000	99.9	V	129.0	-13.4
2331.100	---	37.78	54.00	16.22	1000.0	1000.000	99.9	V	97.0	-13.3
2331.100	42.71	---	74.00	31.29	1000.0	1000.000	99.9	V	97.0	-13.3
2489.200	39.95	---	74.00	34.05	1000.0	1000.000	99.9	V	129.0	-12.5
2489.200	---	23.80	54.00	30.20	1000.0	1000.000	99.9	V	129.0	-12.5
16507.400	57.53	---	74.00	16.47	1000.0	1000.000	99.9	H	0.0	9.0
16507.400	---	43.87	54.00	10.13	1000.0	1000.000	99.9	H	0.0	9.0

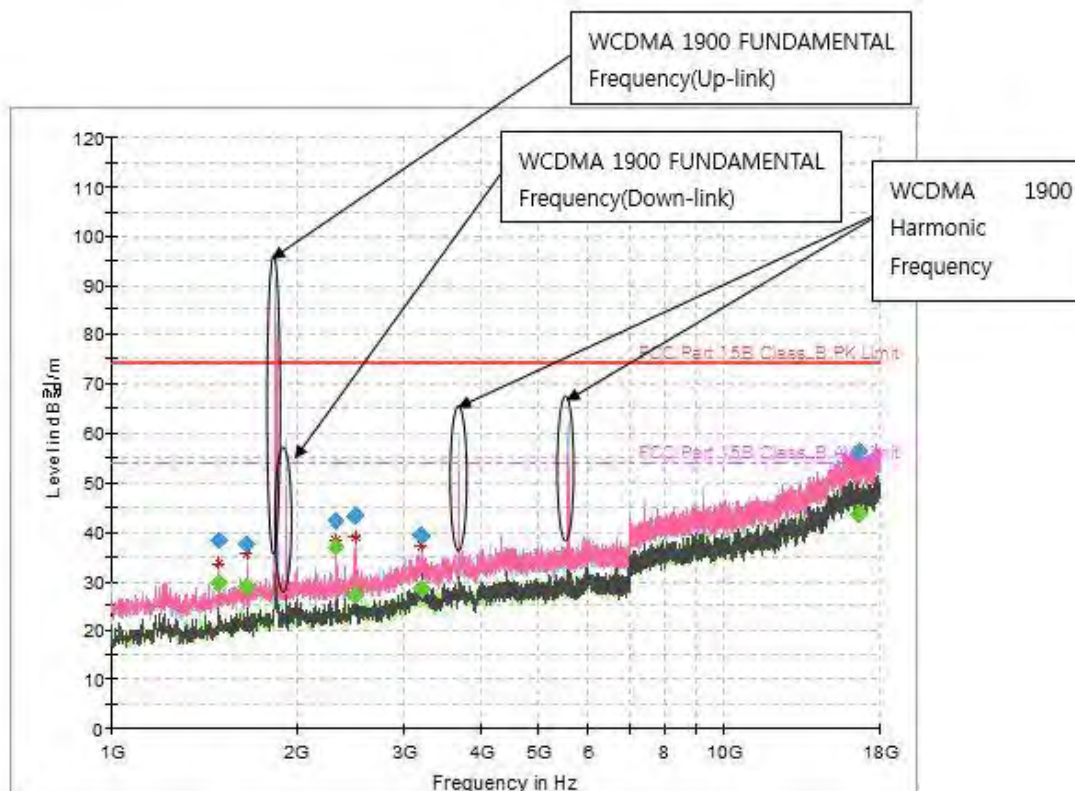


DATA (Above 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 10_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1664.700	39.74	---	74.00	34.26	1000.0	1000.000	99.9	H	137.0	-15.9
1664.700	---	32.04	54.00	21.96	1000.0	1000.000	99.9	H	137.0	-15.9
2164.500	---	25.63	54.00	28.37	1000.0	1000.000	99.9	H	69.0	-13.4
2164.500	35.96	---	74.00	38.04	1000.0	1000.000	99.9	H	69.0	-13.4
2249.500	34.69	---	74.00	39.31	1000.0	1000.000	99.9	V	129.0	-13.4
2249.500	---	21.94	54.00	32.06	1000.0	1000.000	99.9	V	129.0	-13.4
2331.100	---	37.78	54.00	16.22	1000.0	1000.000	99.9	V	97.0	-13.3
2331.100	42.71	---	74.00	31.29	1000.0	1000.000	99.9	V	97.0	-13.3
2489.200	39.95	---	74.00	34.05	1000.0	1000.000	99.9	V	129.0	-12.5
2489.200	---	23.80	54.00	30.20	1000.0	1000.000	99.9	V	129.0	-12.5
16507.400	57.53	---	74.00	16.47	1000.0	1000.000	99.9	H	0.0	9.0
16507.400	---	43.87	54.00	10.13	1000.0	1000.000	99.9	H	0.0	9.0

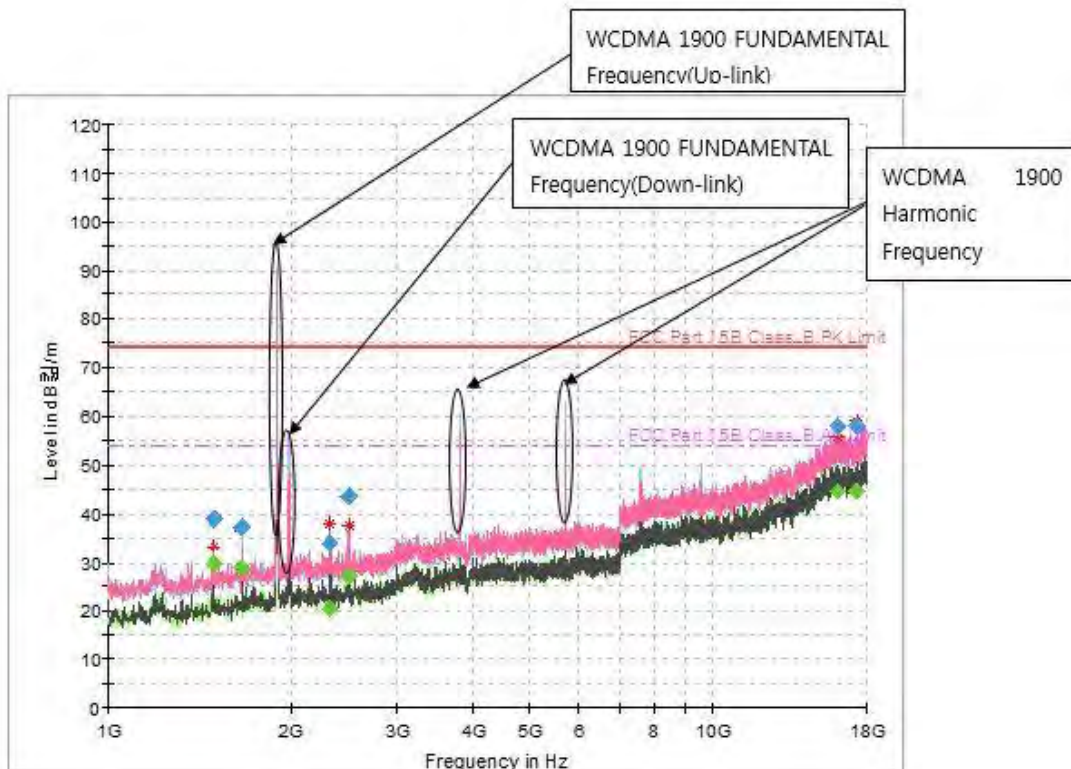


DATA (Above 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 10_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	38.73	---	74.00	35.27	1000.0	1000.000	99.9	H	139.0	-16.7
1499.800	---	29.78	54.00	24.22	1000.0	1000.000	99.9	H	139.0	-16.7
1664.700	37.36	---	74.00	36.64	1000.0	1000.000	99.9	H	39.0	-15.9
1664.700	---	28.71	54.00	25.29	1000.0	1000.000	99.9	H	39.0	-15.9
2329.400	33.93	---	74.00	40.07	1000.0	1000.000	99.9	V	124.0	-13.3
2329.400	---	20.35	54.00	33.65	1000.0	1000.000	99.9	V	124.0	-13.3
2499.400	43.51	---	74.00	30.49	1000.0	1000.000	99.9	V	89.0	-12.5
2499.400	---	27.14	54.00	26.86	1000.0	1000.000	99.9	V	89.0	-12.5
16101.100	---	44.64	54.00	9.36	1000.0	1000.000	99.9	V	294.0	9.3
16101.100	58.12	---	74.00	15.88	1000.0	1000.000	99.9	V	294.0	9.3
17297.900	---	44.57	54.00	9.43	1000.0	1000.000	99.9	V	294.0	9.7
17297.900	57.86	---	74.00	16.14	1000.0	1000.000	99.9	V	294.0	9.7

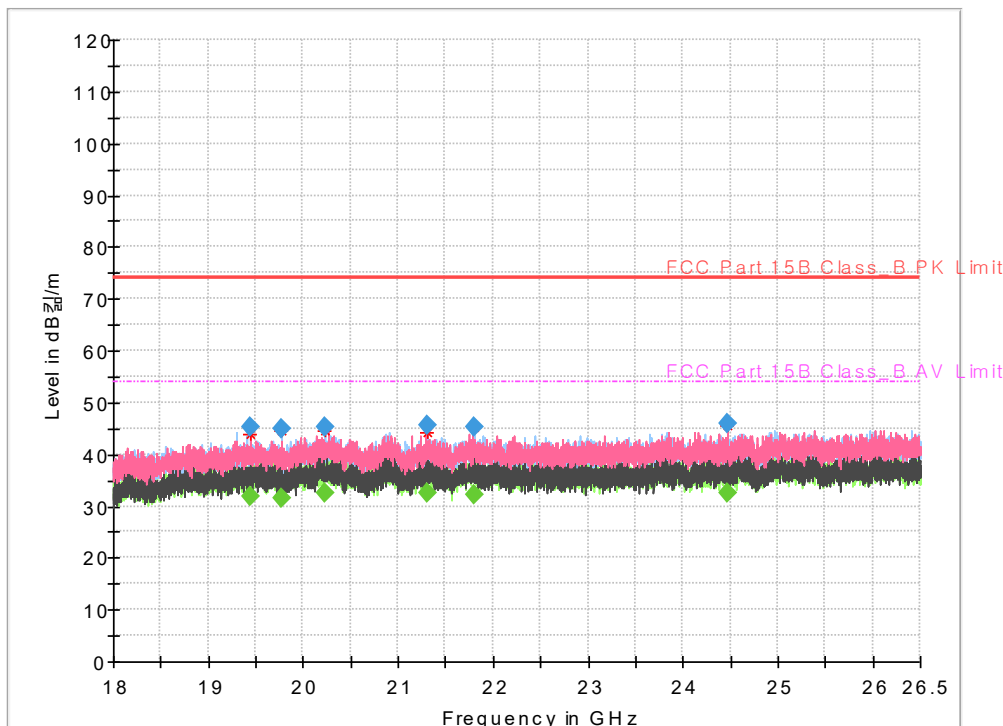


DATA (Above 1 GHz : MODE 10_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19445.000	---	31.91	54.00	22.09	1000.0	1000.000	100.0	V	76.0	17.7
19445.000	45.10	---	74.00	28.90	1000.0	1000.000	100.0	V	76.0	17.7
19768.000	---	31.66	54.00	22.34	1000.0	1000.000	100.0	H	200.0	17.6
19768.000	44.81	---	74.00	29.19	1000.0	1000.000	100.0	H	200.0	17.6
20222.750	45.12	---	74.00	28.88	1000.0	1000.000	100.0	H	250.0	18.1
20222.750	---	32.53	54.00	21.47	1000.0	1000.000	100.0	H	250.0	18.1
21303.100	---	32.37	54.00	21.63	1000.0	1000.000	100.0	H	61.0	18.4
21303.100	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	61.0	18.4
21796.950	---	32.19	54.00	21.81	1000.0	1000.000	100.0	H	200.0	18.3
21796.950	45.16	---	74.00	28.84	1000.0	1000.000	100.0	H	200.0	18.3
24471.900	45.89	---	74.00	28.11	1000.0	1000.000	100.0	V	31.0	18.8
24471.900	---	32.52	54.00	21.48	1000.0	1000.000	100.0	V	31.0	18.8

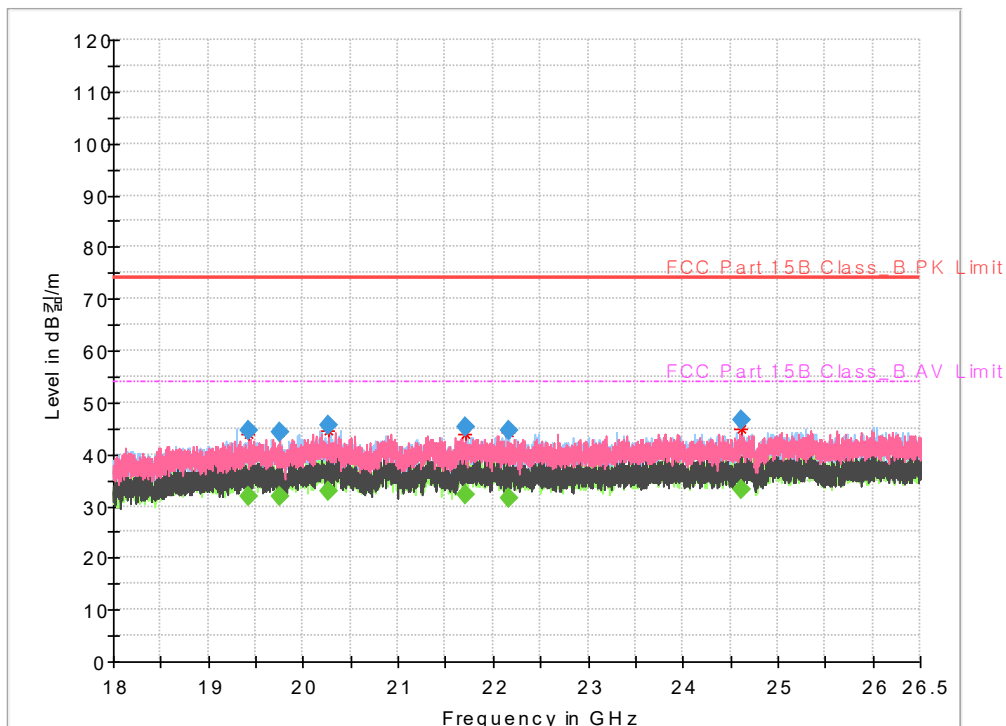


DATA (Above 1 GHz : MODE 10_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19433.950	44.52	---	74.00	29.48	1000.0	1000.000	100.0	V	0.0	17.7
19433.950	---	31.88	54.00	22.12	1000.0	1000.000	100.0	V	0.0	17.7
19752.700	---	31.76	54.00	22.24	1000.0	1000.000	100.0	V	265.0	17.6
19752.700	44.41	---	74.00	29.59	1000.0	1000.000	100.0	V	265.0	17.6
20272.050	45.72	---	74.00	28.28	1000.0	1000.000	100.0	V	352.0	18.2
20272.050	---	32.82	54.00	21.18	1000.0	1000.000	100.0	V	352.0	18.2
21714.500	---	32.29	54.00	21.71	1000.0	1000.000	100.0	V	145.0	18.3
21714.500	45.38	---	74.00	28.62	1000.0	1000.000	100.0	V	145.0	18.3
22165.000	44.52	---	74.00	29.48	1000.0	1000.000	100.0	H	121.0	18.2
22165.000	---	31.61	54.00	22.39	1000.0	1000.000	100.0	H	121.0	18.2
24614.700	46.45	---	74.00	27.55	1000.0	1000.000	100.0	V	57.0	18.9
24614.700	---	33.19	54.00	20.81	1000.0	1000.000	100.0	V	57.0	18.9

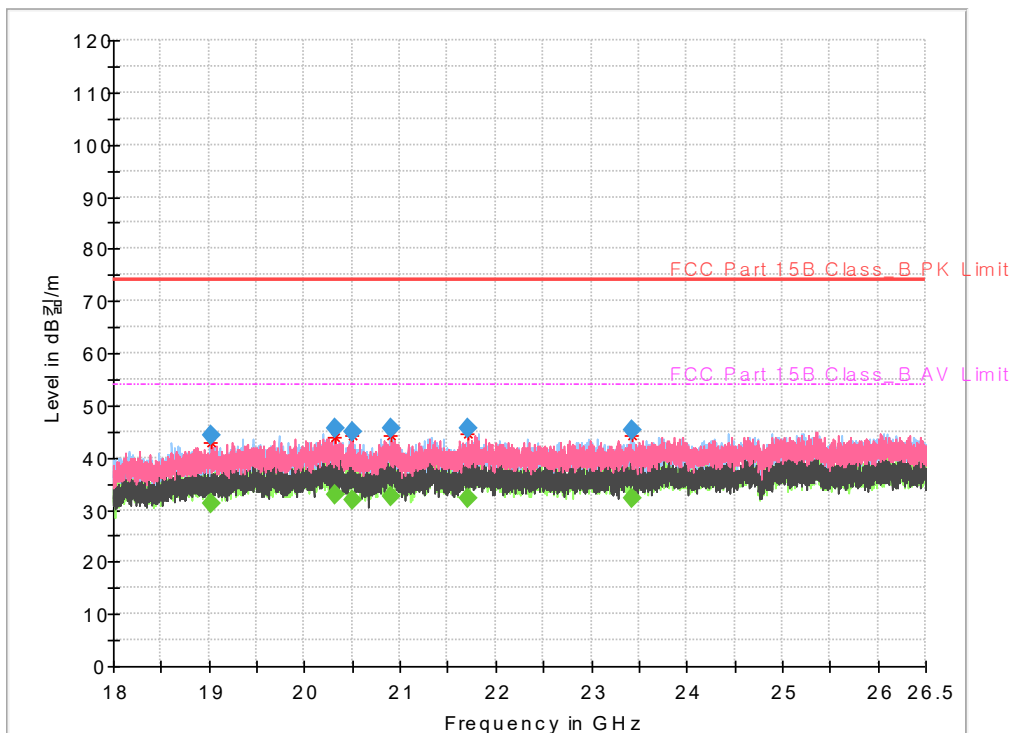


DATA (Above 1 GHz : MODE 10_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 10_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19030.200	44.10	---	74.00	29.90	1000.0	1000.000	100.0	H	151.0	17.1
19030.200	---	31.20	54.00	22.80	1000.0	1000.000	100.0	H	151.0	17.1
20326.450	45.64	---	74.00	28.36	1000.0	1000.000	100.0	V	16.0	18.3
20326.450	---	32.81	54.00	21.19	1000.0	1000.000	100.0	V	16.0	18.3
20498.150	---	31.97	54.00	22.03	1000.0	1000.000	100.0	V	16.0	18.2
20498.150	44.77	---	74.00	29.23	1000.0	1000.000	100.0	V	16.0	18.2
20902.750	---	32.60	54.00	21.40	1000.0	1000.000	100.0	H	36.0	18.3
20902.750	45.42	---	74.00	28.58	1000.0	1000.000	100.0	H	36.0	18.3
21712.800	---	32.23	54.00	21.77	1000.0	1000.000	100.0	V	161.0	18.3
21712.800	45.51	---	74.00	28.49	1000.0	1000.000	100.0	V	161.0	18.3
23430.650	---	32.09	54.00	21.91	1000.0	1000.000	100.0	H	108.0	18.4
23430.650	45.41	---	74.00	28.59	1000.0	1000.000	100.0	H	108.0	18.4

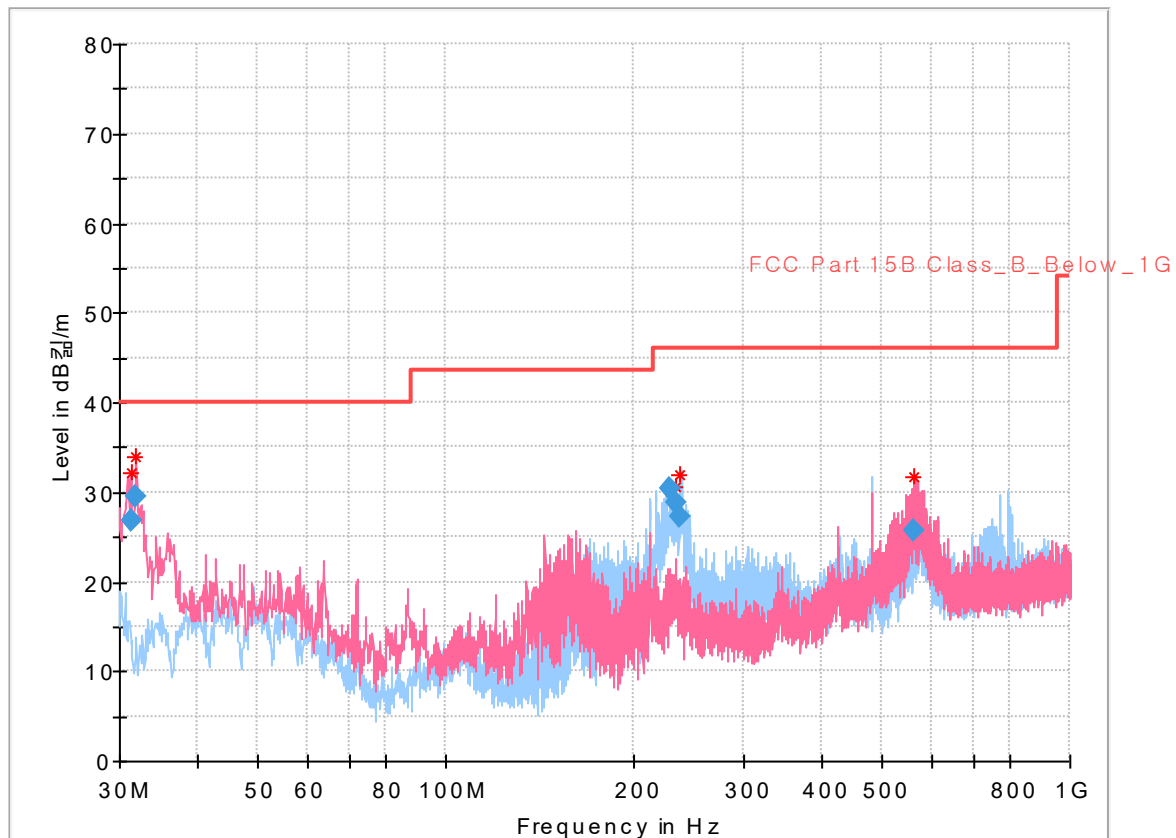


DATA (Below 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 11_LOW



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.261	26.89	40.00	13.11	1000.0	120.000	100.0	V	0.0	-23.5
31.940	29.51	40.00	10.49	1000.0	120.000	100.0	V	0.0	-23.5
228.365	30.43	46.00	15.57	1000.0	120.000	100.0	H	247.0	-20.3
232.730	28.81	46.00	17.19	1000.0	120.000	100.0	H	111.0	-19.7
237.677	27.19	46.00	18.81	1000.0	120.000	100.0	H	152.0	-19.6
562.724	25.70	46.00	20.30	1000.0	120.000	100.0	V	157.0	-12.2

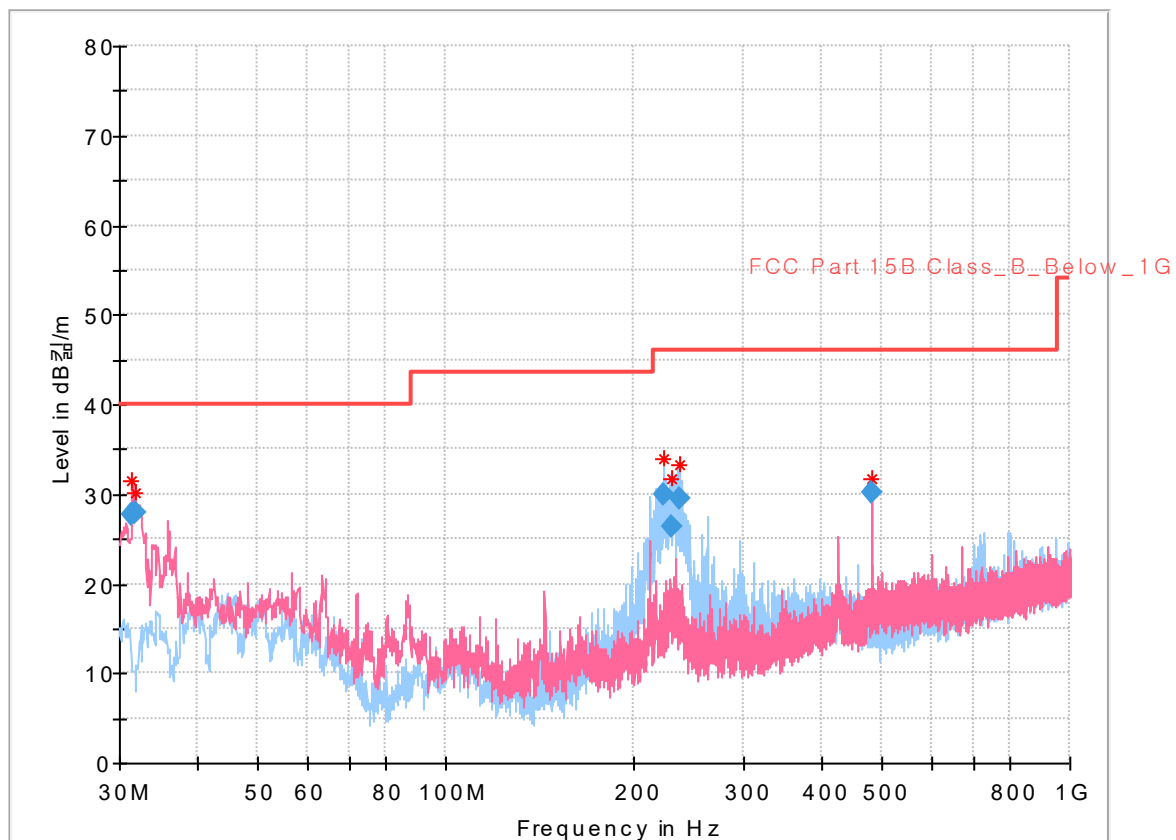


DATA (Below 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 11_MID



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.455	27.72	40.00	12.28	1000.0	120.000	100.0	V	43.0	-23.6
31.843	27.98	40.00	12.02	1000.0	120.000	100.0	V	272.0	-23.5
223.515	29.88	46.00	16.12	1000.0	120.000	100.0	H	230.0	-20.8
230.693	26.29	46.00	19.71	1000.0	120.000	100.0	H	119.0	-20.0
237.580	29.56	46.00	16.44	1000.0	120.000	100.0	H	119.0	-19.6
479.983	30.24	46.00	15.76	1000.0	120.000	100.0	H	92.0	-13.8

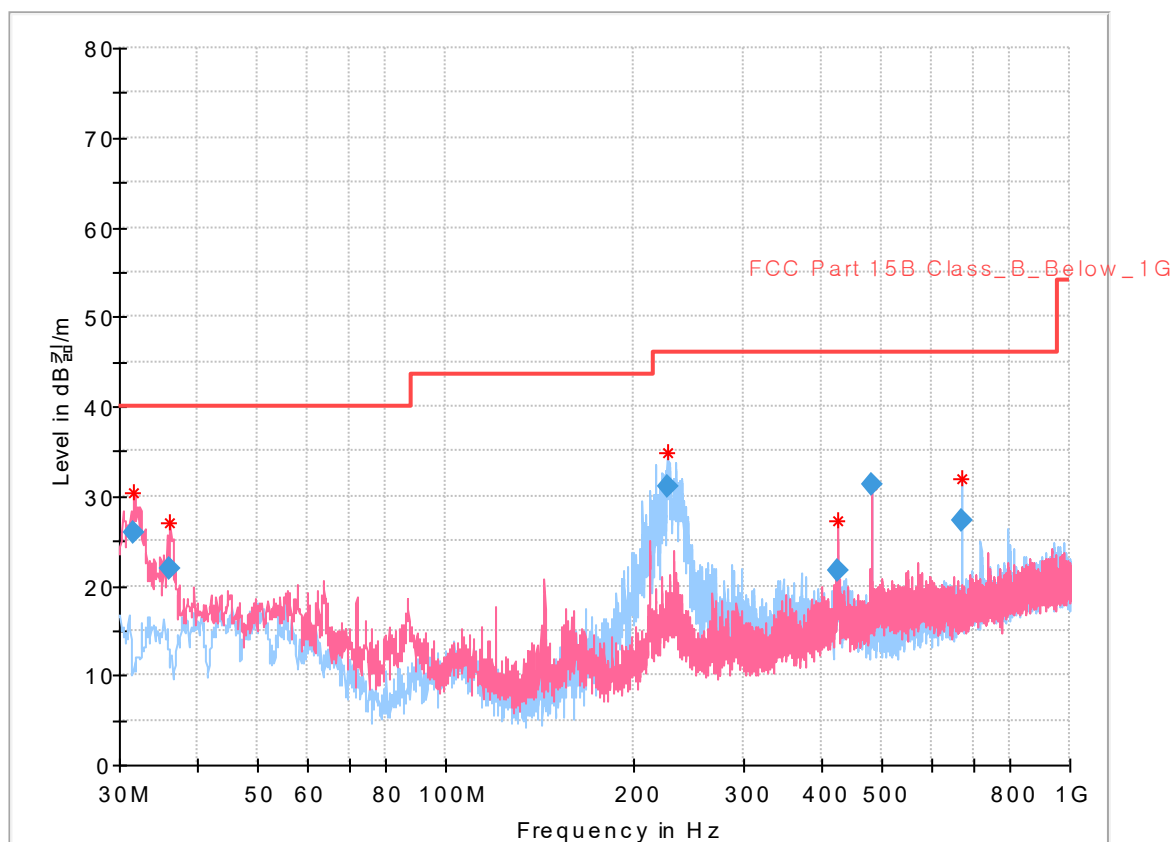


DATA (Below 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: RE_MODE 11_HIGH



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.649	26.00	40.00	14.00	1000.0	120.000	100.0	V	137.0	-23.6
36.208	21.95	40.00	18.05	1000.0	120.000	100.0	V	137.0	-22.1
225.940	31.11	46.00	14.89	1000.0	120.000	100.0	H	249.0	-20.5
423.335	21.63	46.00	24.37	1000.0	120.000	100.0	V	164.0	-15.0
479.983	31.26	46.00	14.74	1000.0	120.000	100.0	H	72.0	-13.8
672.043	27.33	46.00	18.67	1000.0	120.000	100.0	H	265.0	-10.6

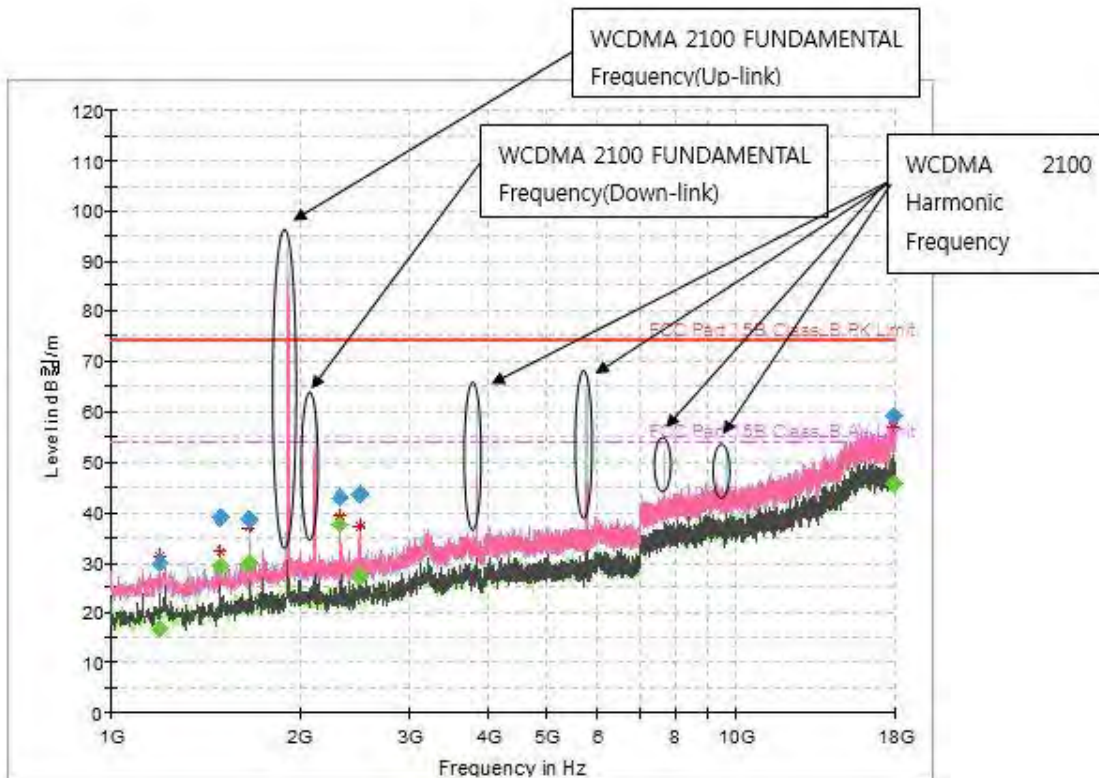


DATA (Above 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 11_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1198.900	---	16.89	54.00	37.11	3000.0	1000.000	99.9	V	162.0	-19.2
1198.900	29.91	---	74.00	44.09	3000.0	1000.000	99.9	V	162.0	-19.2
1499.800	---	29.04	54.00	24.96	3000.0	1000.000	99.9	V	127.0	-16.7
1499.800	38.90	---	74.00	35.10	3000.0	1000.000	99.9	V	127.0	-16.7
1664.700	38.39	---	74.00	35.61	3000.0	1000.000	99.9	H	51.0	-15.9
1664.700	---	29.85	54.00	24.15	3000.0	1000.000	99.9	H	51.0	-15.9
2331.100	42.77	---	74.00	31.23	3000.0	1000.000	99.9	V	90.0	-13.3
2331.100	---	37.45	54.00	16.55	3000.0	1000.000	99.9	V	90.0	-13.3
2499.400	---	27.04	54.00	26.96	3000.0	1000.000	99.9	V	90.0	-12.5
2499.400	43.46	---	74.00	30.54	3000.0	1000.000	99.9	V	90.0	-12.5
17847.000	---	45.47	54.00	8.53	3000.0	1000.000	99.9	V	90.0	11.1
17847.000	58.87	---	74.00	15.13	3000.0	1000.000	99.9	V	90.0	11.1

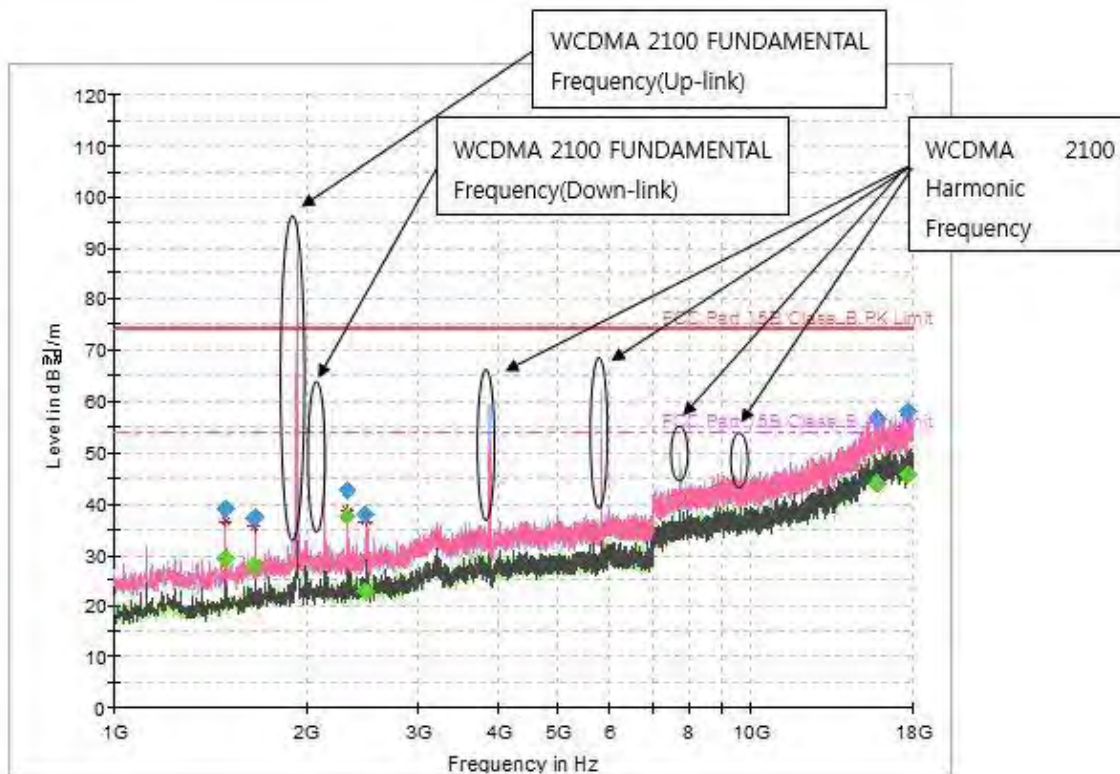


DATA (Above 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
 Operating Conditions: ICR 3 m Chamber
 Operator Name: LEE S H
 Comment: ABOVE_MODE 11_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1499.800	---	29.08	54.00	24.92	1000.0	1000.000	99.9	V	129.0	-16.7
1499.800	38.79	---	74.00	35.21	1000.0	1000.000	99.9	V	129.0	-16.7
1664.700	---	27.87	54.00	26.13	1000.0	1000.000	99.9	V	61.0	-15.9
1664.700	37.20	---	74.00	36.80	1000.0	1000.000	99.9	V	61.0	-15.9
2331.100	42.44	---	74.00	31.56	1000.0	1000.000	99.9	V	92.0	-13.3
2331.100	---	37.64	54.00	16.36	1000.0	1000.000	99.9	V	92.0	-13.3
2490.900	37.87	---	74.00	36.13	1000.0	1000.000	99.9	V	232.0	-12.5
2490.900	---	22.75	54.00	31.25	1000.0	1000.000	99.9	V	232.0	-12.5
15800.200	56.75	---	74.00	17.25	1000.0	1000.000	99.9	V	61.0	9.0
15800.200	---	43.90	54.00	10.10	1000.0	1000.000	99.9	V	61.0	9.0
17707.600	58.09	---	74.00	15.91	1000.0	1000.000	99.9	H	159.0	10.6
17707.600	---	45.43	54.00	8.57	1000.0	1000.000	99.9	H	159.0	10.6

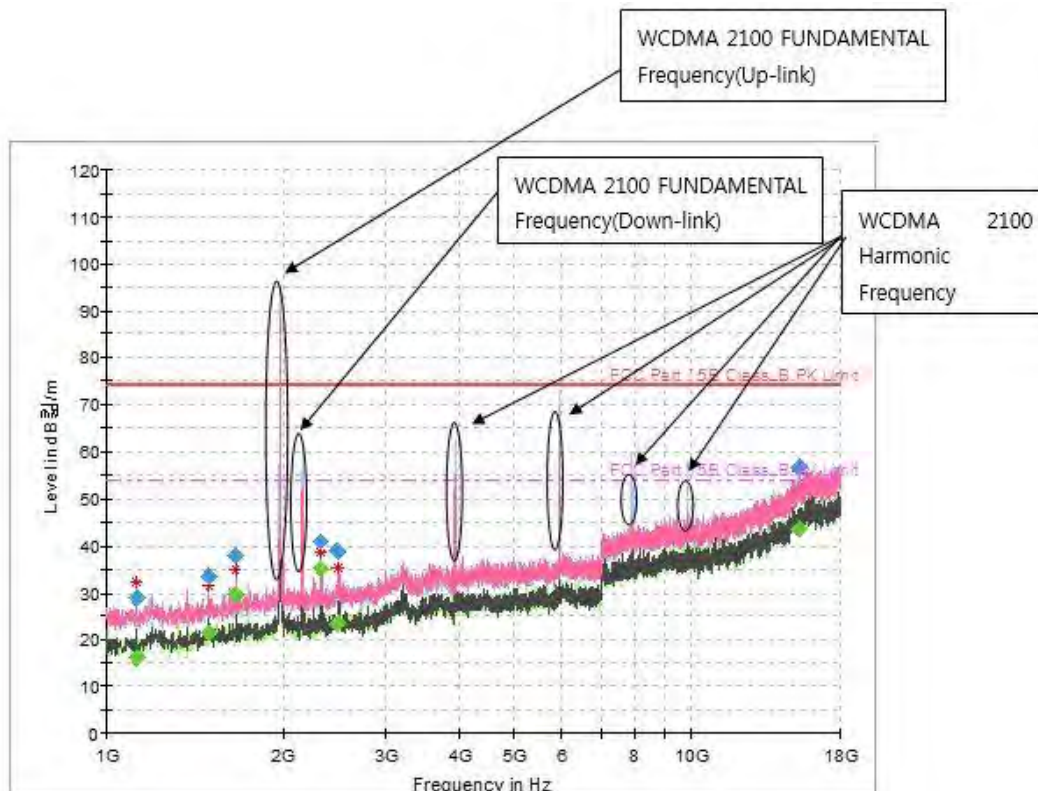


DATA (Above 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Operating Conditions: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1124.100	28.82	---	74.00	45.18	1000.0	1000.000	99.9	H	106.0	-19.5
1124.100	---	16.10	54.00	37.90	1000.0	1000.000	99.9	H	106.0	-19.5
1499.800	---	21.56	54.00	32.44	1000.0	1000.000	99.9	V	292.0	-16.7
1499.800	33.47	---	74.00	40.53	1000.0	1000.000	99.9	V	292.0	-16.7
1664.700	---	29.53	54.00	24.47	1000.0	1000.000	99.9	H	74.0	-15.9
1664.700	37.82	---	74.00	36.18	1000.0	1000.000	99.9	H	74.0	-15.9
2331.100	40.82	---	74.00	33.18	1000.0	1000.000	99.9	V	116.0	-13.3
2331.100	---	35.30	54.00	18.70	1000.0	1000.000	99.9	V	116.0	-13.3
2496.000	38.95	---	74.00	35.05	1000.0	1000.000	99.9	V	116.0	-12.5
2496.000	---	23.56	54.00	30.44	1000.0	1000.000	99.9	V	116.0	-12.5
15303.800	56.72	---	74.00	17.28	1000.0	1000.000	99.9	V	251.0	9.0
15303.800	---	43.52	54.00	10.48	1000.0	1000.000	99.9	V	251.0	9.0

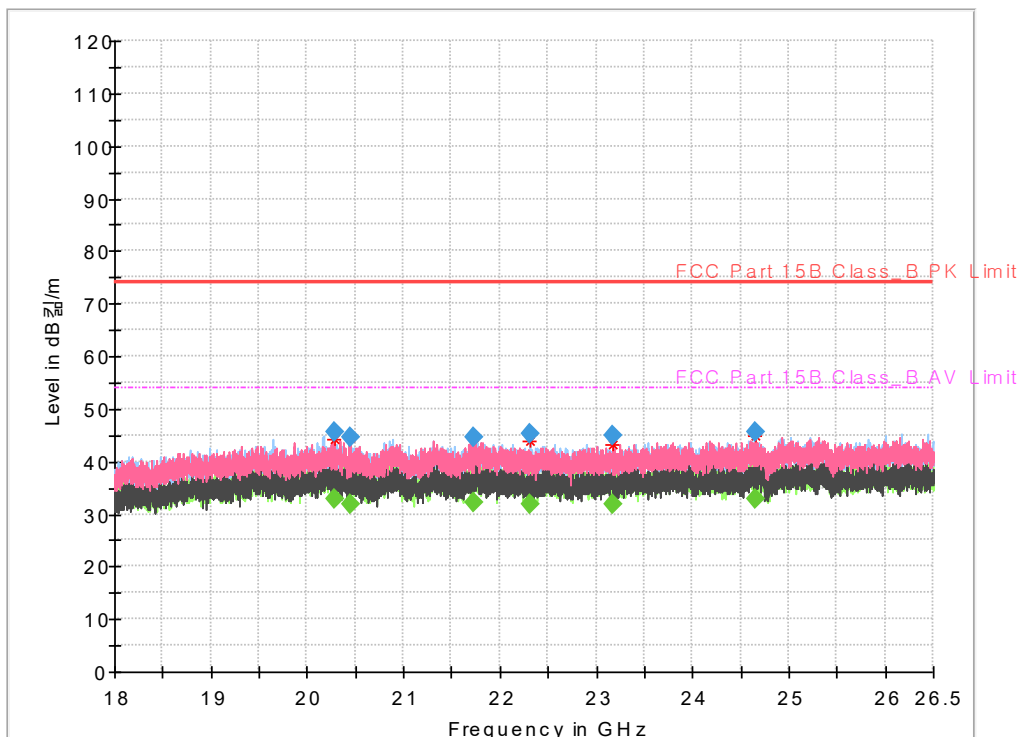


DATA (Above 1 GHz : MODE 11_LOW)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_LOW



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
20279.700	45.51	---	74.00	28.49	1000.0	1000.000	100.0	H	249.0	18.3
20279.700	---	32.83	54.00	21.17	1000.0	1000.000	100.0	H	249.0	18.3
20453.950	---	31.78	54.00	22.22	1000.0	1000.000	100.0	V	310.0	18.2
20453.950	44.73	---	74.00	29.27	1000.0	1000.000	100.0	V	310.0	18.2
21720.450	---	32.25	54.00	21.75	1000.0	1000.000	100.0	V	284.0	18.3
21720.450	44.56	---	74.00	29.44	1000.0	1000.000	100.0	V	284.0	18.3
22316.300	45.24	---	74.00	28.76	1000.0	1000.000	100.0	H	180.0	18.2
22316.300	---	31.74	54.00	22.26	1000.0	1000.000	100.0	H	180.0	18.2
23180.750	---	31.70	54.00	22.30	1000.0	1000.000	100.0	H	249.0	18.3
23180.750	44.78	---	74.00	29.22	1000.0	1000.000	100.0	H	249.0	18.3
24658.900	---	32.98	54.00	21.02	1000.0	1000.000	100.0	V	102.0	18.9
24658.900	45.61	---	74.00	28.39	1000.0	1000.000	100.0	V	102.0	18.9

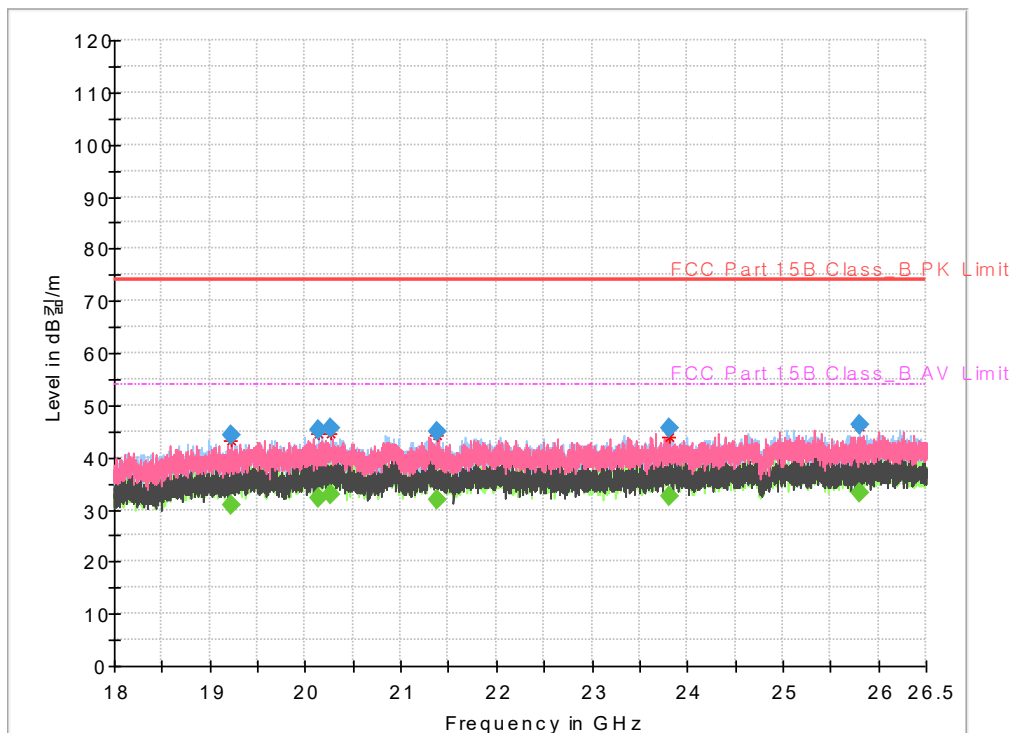


DATA (Above 1 GHz : MODE 11_MID)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_MID



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19222.300	---	31.00	54.00	23.00	1000.0	1000.000	100.0	V	161.0	17.4
19222.300	44.24	---	74.00	29.76	1000.0	1000.000	100.0	V	161.0	17.4
20130.950	---	32.26	54.00	21.74	1000.0	1000.000	100.0	H	327.0	17.9
20130.950	45.23	---	74.00	28.77	1000.0	1000.000	100.0	H	327.0	17.9
20267.800	---	32.79	54.00	21.21	1000.0	1000.000	100.0	H	164.0	18.2
20267.800	45.69	---	74.00	28.31	1000.0	1000.000	100.0	H	164.0	18.2
21384.700	---	31.88	54.00	22.12	1000.0	1000.000	100.0	V	135.0	18.4
21384.700	45.05	---	74.00	28.95	1000.0	1000.000	100.0	V	135.0	18.4
23813.150	45.74	---	74.00	28.26	1000.0	1000.000	100.0	H	303.0	18.5
23813.150	---	32.41	54.00	21.59	1000.0	1000.000	100.0	H	303.0	18.5
25804.700	46.15	---	74.00	27.85	1000.0	1000.000	100.0	H	277.0	19.1
25804.700	---	33.28	54.00	20.72	1000.0	1000.000	100.0	H	277.0	19.1

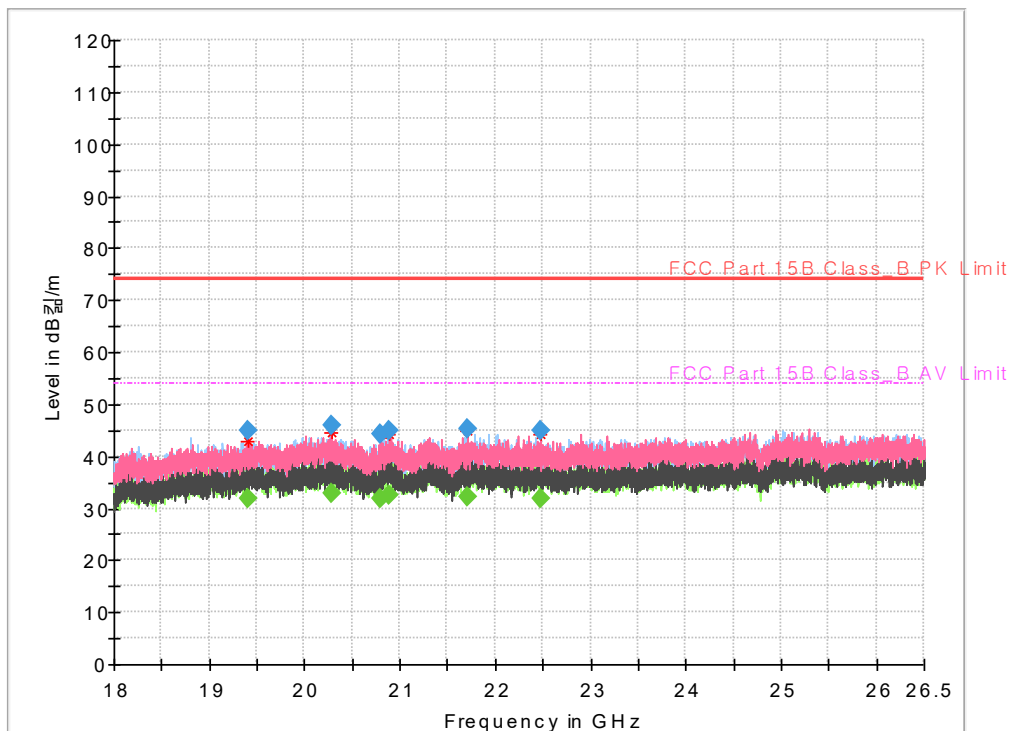


DATA (Above 1 GHz : MODE 11_HIGH)

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR 3 m Chamber
Operator Name: LEE S H
Comment: ABOVE_MODE 11_HIGH



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
19416.100	44.91	---	74.00	29.09	1000.0	1000.000	100.0	V	145.0	17.6
19416.100	---	31.75	54.00	22.25	1000.0	1000.000	100.0	V	145.0	17.6
20276.300	45.78	---	74.00	28.22	1000.0	1000.000	100.0	V	102.0	18.3
20276.300	---	32.91	54.00	21.09	1000.0	1000.000	100.0	V	102.0	18.3
20792.250	---	31.71	54.00	22.29	1000.0	1000.000	100.0	V	197.0	18.2
20792.250	44.38	---	74.00	29.62	1000.0	1000.000	100.0	V	197.0	18.2
20892.550	---	32.62	54.00	21.38	1000.0	1000.000	100.0	V	57.0	18.3
20892.550	44.97	---	74.00	29.03	1000.0	1000.000	100.0	V	57.0	18.3
21706.000	---	32.30	54.00	21.70	1000.0	1000.000	100.0	V	242.0	18.3
21706.000	45.39	---	74.00	28.61	1000.0	1000.000	100.0	V	242.0	18.3
22485.450	---	31.89	54.00	22.11	1000.0	1000.000	100.0	V	31.0	18.2
22485.450	45.08	---	74.00	28.92	1000.0	1000.000	100.0	V	31.0	18.2



7.2 Conducted disturbance

Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power and Signal Line In / Output ports.

Test method	: FCC Part 15.107, Class B
Test Date	: 2021. 08. 10
Temperature, Humidity	: 23.6 °C ~ 24.8 °C, 44.7 % R.H. ~ 45.8 % R.H.
Measurement Frequency range and RBW	: 150 kHz ~ 30 MHz / 9 kHz
Test mode	: MODE 1
Result	: Pass

A sample calculation:

- Corr (correction factor) = LISN Insertion loss + Cable loss
- Emission Level = meter reading + Corr
- Sample calculation;
- At Frequency: 12.111 MHz Result = Reading + Corr = 24.10 dB(μV) + 9.8 dB = 33.90 dB(μV)
(☐ Quasi-peak, ☒ Average)
- Measurement Data kept in ICR



Limits for conducted emissions from the AC mains ports of class A equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	79	66
0.5 ~ 30	73	60

Limits for conducted emissions from the AC mains ports of class B equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	CISPR-Average [dB(μV)]
0.15 ~ 0.5	66 ~ 56*	56 ~ 46*
0.5 ~ 5	56	46
5 ~ 30	60	50
* Decreases with the logarithm of the frequency		

Used equipments:

Used	Equipment	Model no.	Makers	Serial no.	Next Cal.
☒	EMI Test Receiver	ESR3	R&S	102119	2022. 04. 14
☒	LISN(main)	ENV216	R&S	102194	2022. 04. 15
☒	LISN(sub)	ENV216	R&S	102193	2022. 04. 15
☐	LISN	NNLK 8130	SCHWARZBECK	05184	2021. 08. 13
☐	HIGH POWER VOLTAGE PROBE	TK 9421	SCHWARZBECK	271	2021. 08. 14
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63101	2022. 02. 25

Test Software:

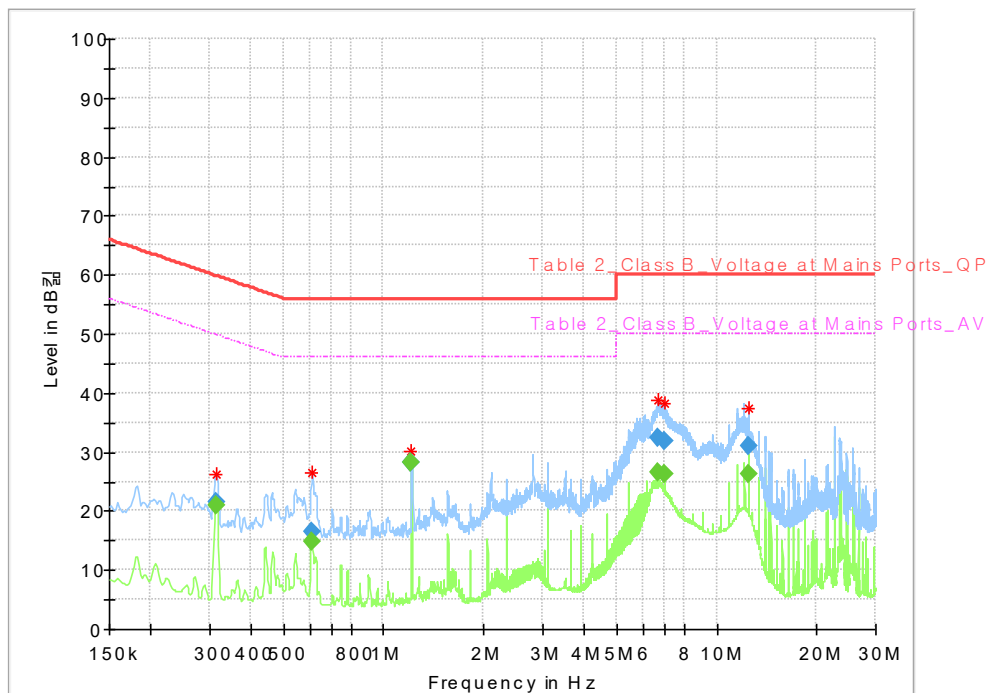
Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.02

Measurement Data:

- Refer to the Next page.

**DATA_POSITIVE****Test Report****Common Information**

Test Description: TOLOGG-3.3-GL
Test Site: ICR Shield Room
Operator Name: LEE S H
Comment: POSITIVE_MODE 1

**Final Result**

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.314	---	21.02	49.86	28.83	5000.0	9.000	P	ON	9.8
0.314	21.48	---	59.86	38.38	5000.0	9.000	P	ON	9.8
0.609	---	14.94	46.00	31.06	5000.0	9.000	P	ON	9.9
0.609	16.57	---	56.00	39.43	5000.0	9.000	P	ON	9.9
1.212	---	28.31	46.00	17.69	5000.0	9.000	P	ON	9.7
1.212	28.31	---	56.00	27.69	5000.0	9.000	P	ON	9.7
6.666	---	26.66	50.00	23.34	5000.0	9.000	P	ON	9.8
6.666	32.36	---	60.00	27.64	5000.0	9.000	P	ON	9.8
7.010	---	26.21	50.00	23.79	5000.0	9.000	P	ON	9.8
7.010	31.77	---	60.00	28.23	5000.0	9.000	P	ON	9.8
12.462	---	26.15	50.00	23.85	5000.0	9.000	P	ON	9.8
12.462	30.90	---	60.00	29.10	5000.0	9.000	P	ON	9.8

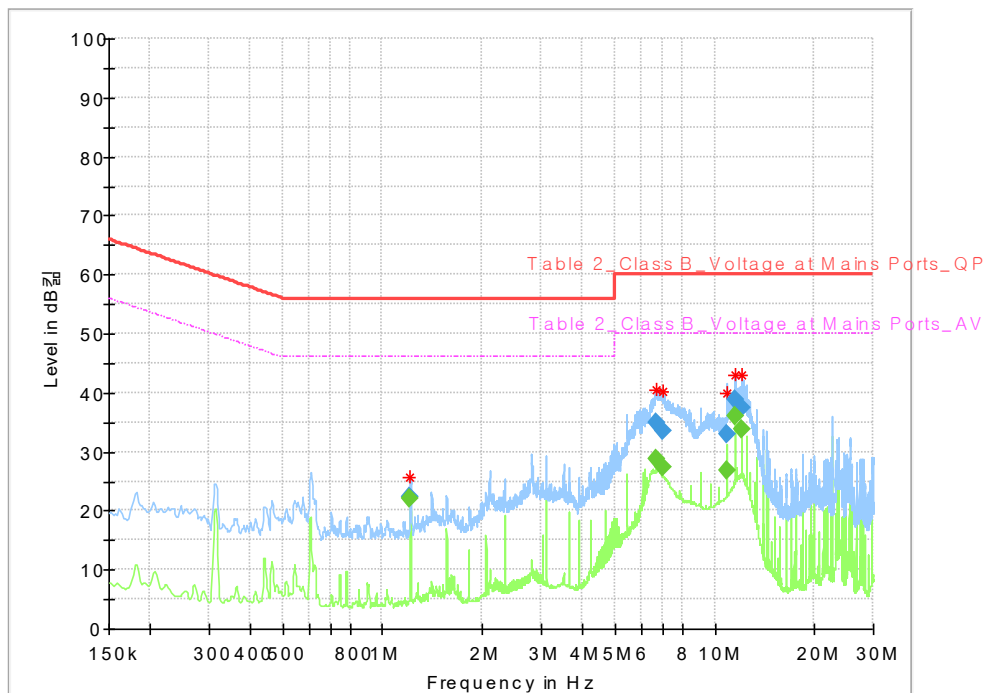


DATA_NEGATIVE

Test Report

Common Information

Test Description: TOLOGG-3.3-GL
Test Site: ICR Shield Room
Operator Name: LEE S H
Comment: NEGATIVE_MODE 1



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
1.212	---	22.08	46.00	23.92	5000.0	9.000	N	ON	9.7
1.212	22.31	---	56.00	33.69	5000.0	9.000	N	ON	9.7
6.702	---	28.64	50.00	21.36	5000.0	9.000	N	ON	9.8
6.702	34.94	---	60.00	25.06	5000.0	9.000	N	ON	9.8
7.010	---	27.43	50.00	22.57	5000.0	9.000	N	ON	9.8
7.010	33.50	---	60.00	26.50	5000.0	9.000	N	ON	9.8
10.912	---	26.95	50.00	23.05	5000.0	9.000	N	ON	9.9
10.912	32.91	---	60.00	27.09	5000.0	9.000	N	ON	9.9
11.506	---	35.94	50.00	14.06	5000.0	9.000	N	ON	9.9
11.506	38.85	---	60.00	21.15	5000.0	9.000	N	ON	9.9
12.111	---	33.90	50.00	16.10	5000.0	9.000	N	ON	9.8
12.111	37.36	---	60.00	22.64	5000.0	9.000	N	ON	9.8

- END -