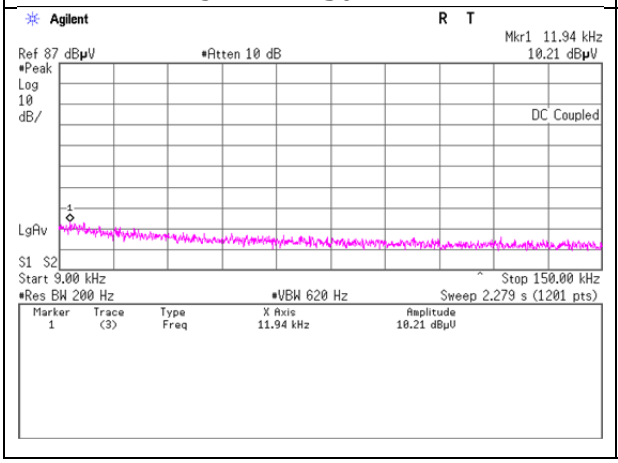
Conducted Spurious Emission

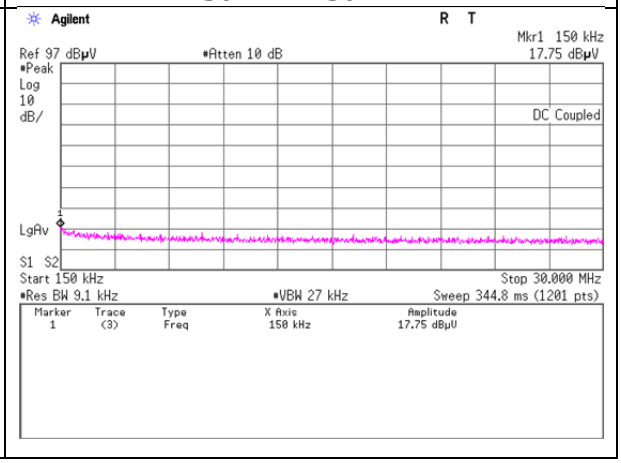
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2402 MHz

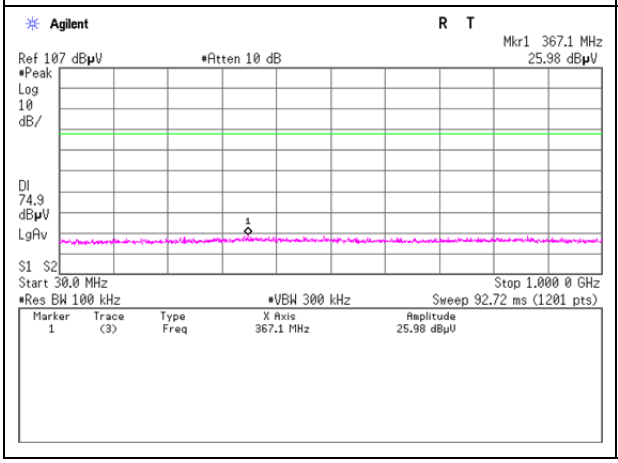
9 kHz - 150 kHz



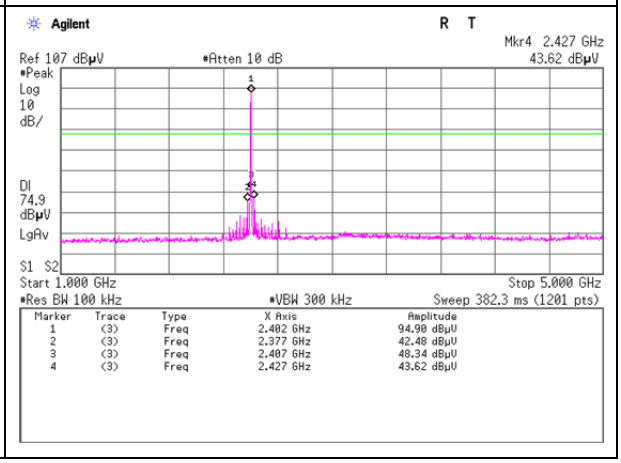
150 kHz - 30 MHz



30 MHz - 1 GHz



1 GHz - 5 GHz

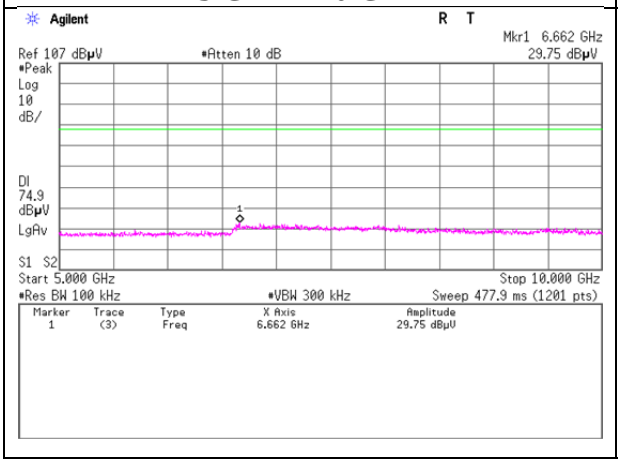


Conducted Spurious Emission

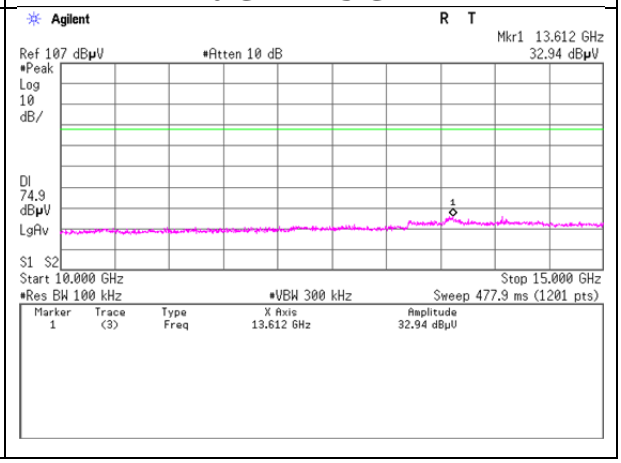
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2402 MHz

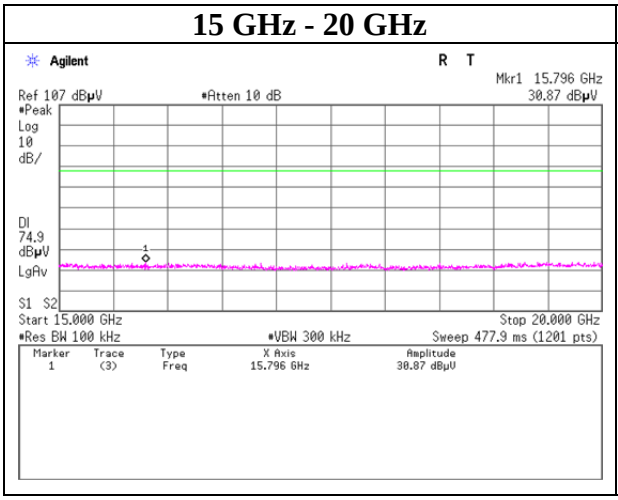
5 GHz – 10 GHz



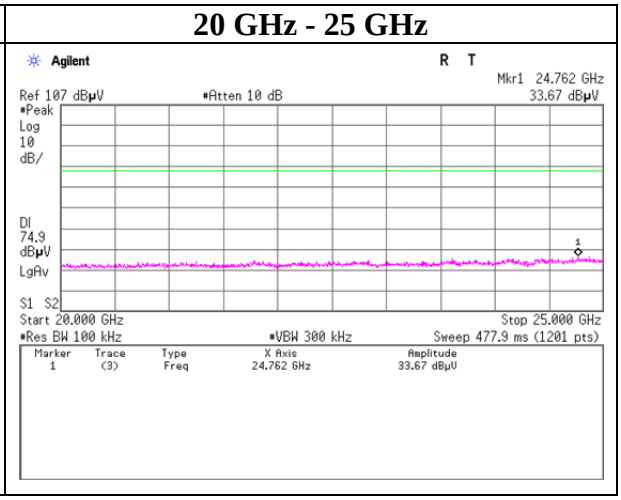
10 GHz - 15 GHz



15 GHz - 20 GHz



20 GHz - 25 GHz

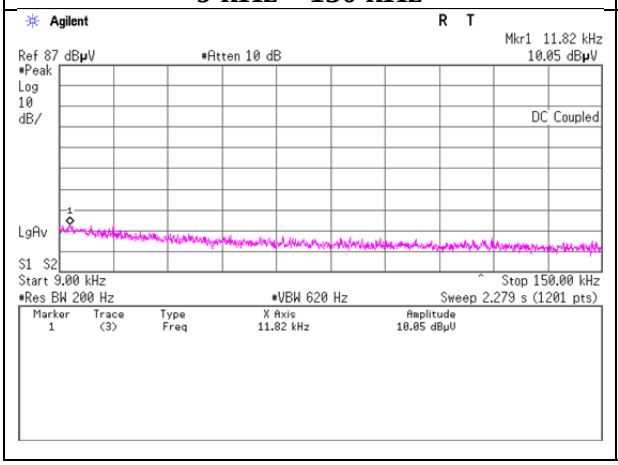


Conducted Spurious Emission

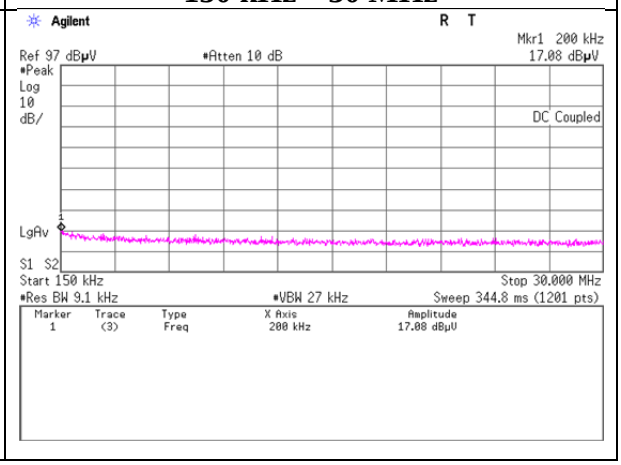
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2441 MHz

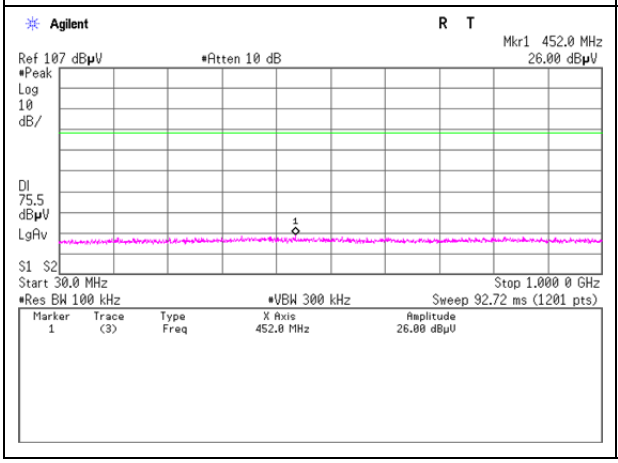
9 kHz – 150 kHz



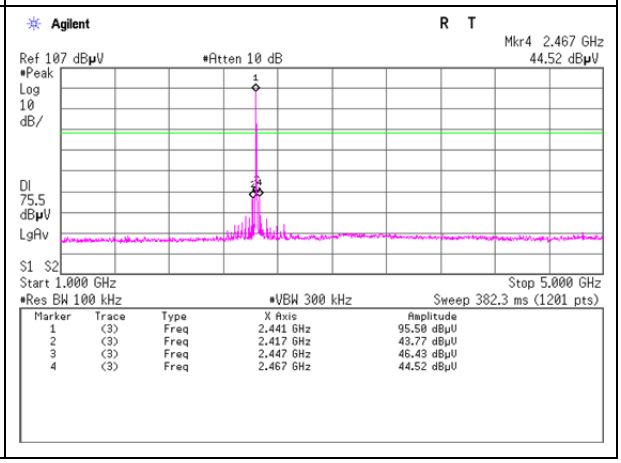
150 kHz – 30 MHz



30 MHz – 1 GHz



1 GHz – 5 GHz

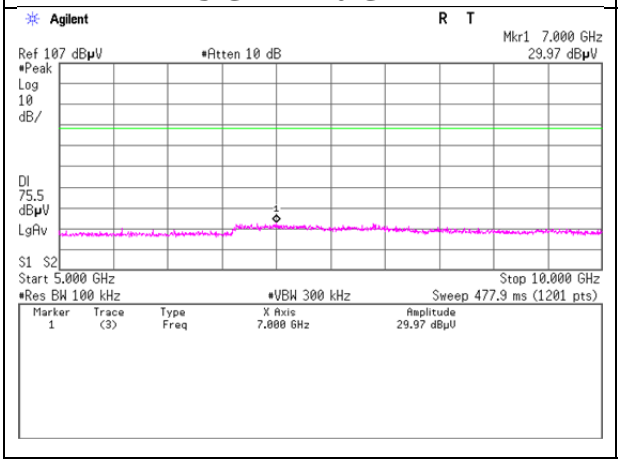


Conducted Spurious Emission

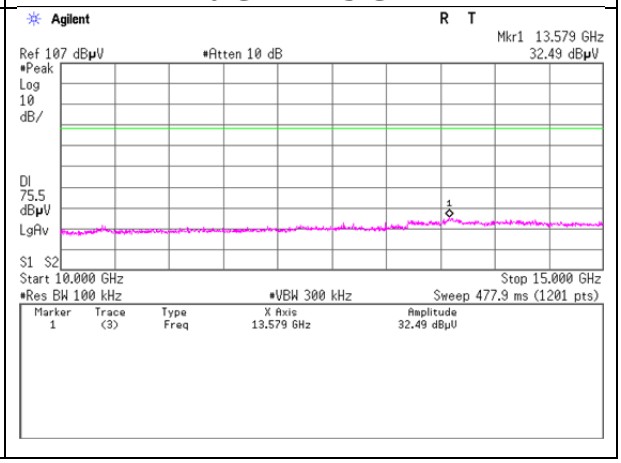
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2441 MHz

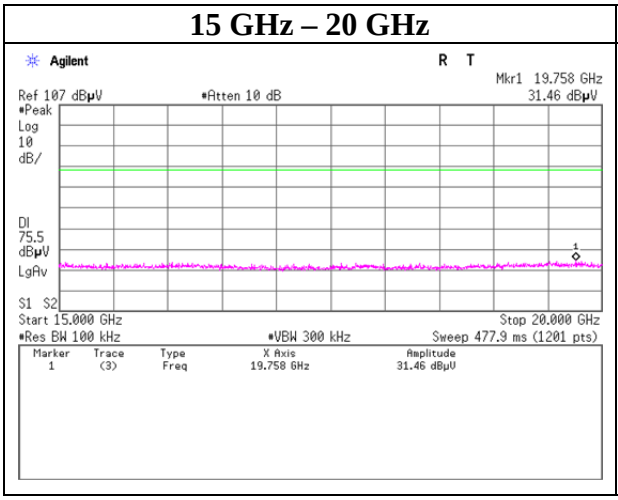
5 GHz – 10 GHz



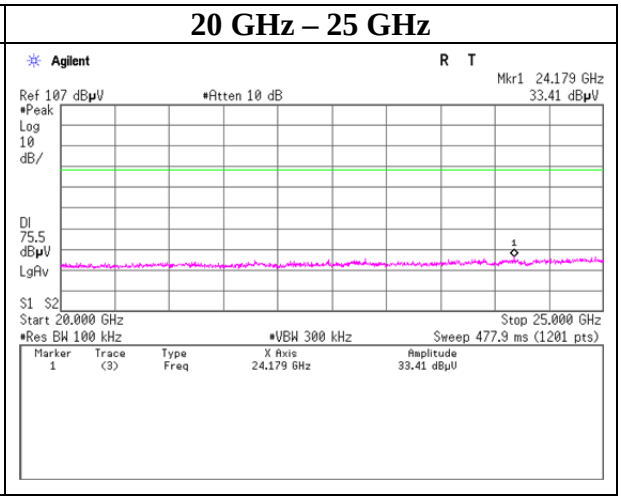
10 GHz – 15 GHz



15 GHz – 20 GHz



20 GHz – 25 GHz

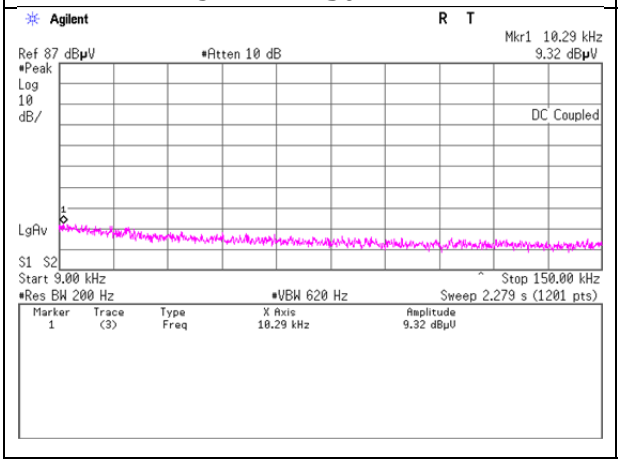


Conducted Spurious Emission

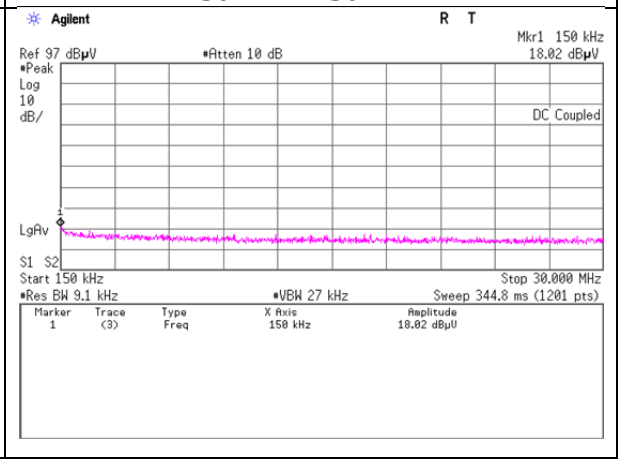
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2480 MHz

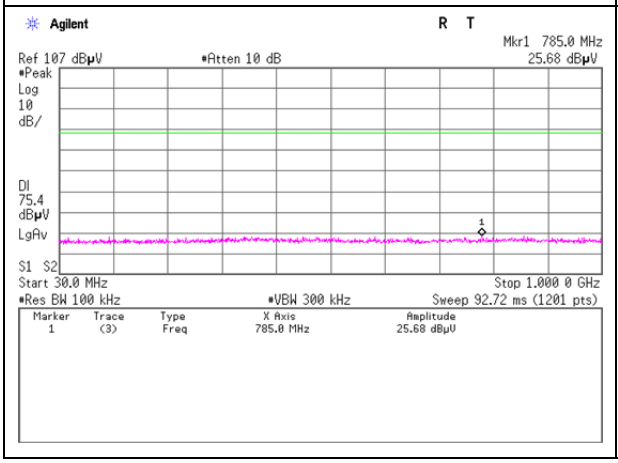
9 kHz – 150 kHz



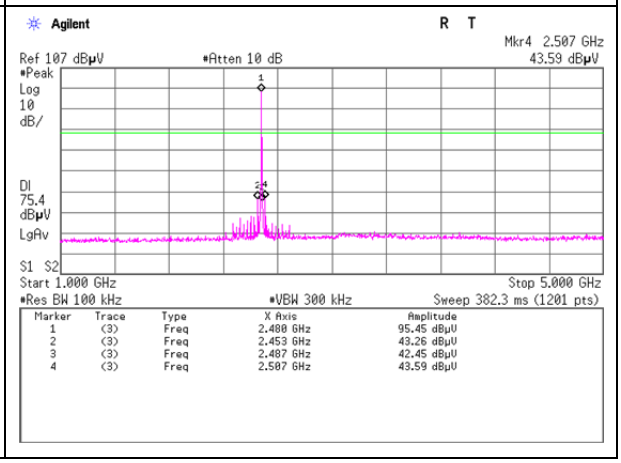
150 kHz – 30 MHz



30 MHz – 1 GHz



1 GHz – 5 GHz

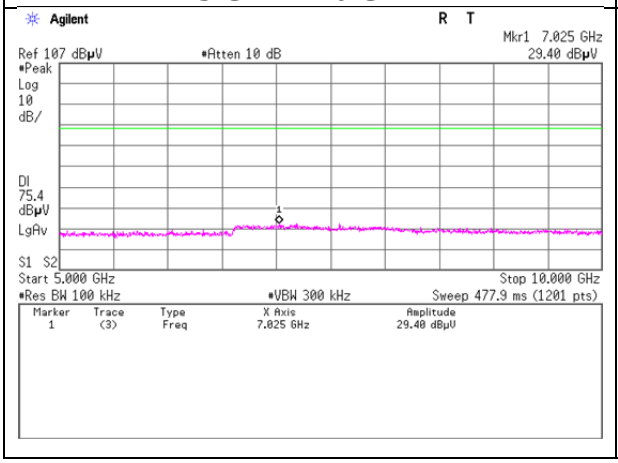


Conducted Spurious Emission

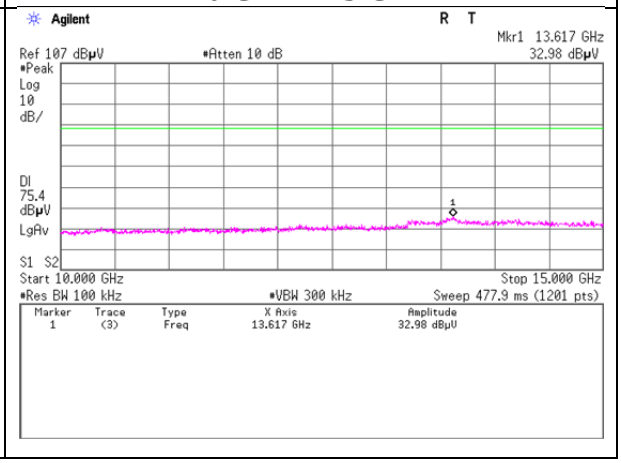
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

2480 MHz

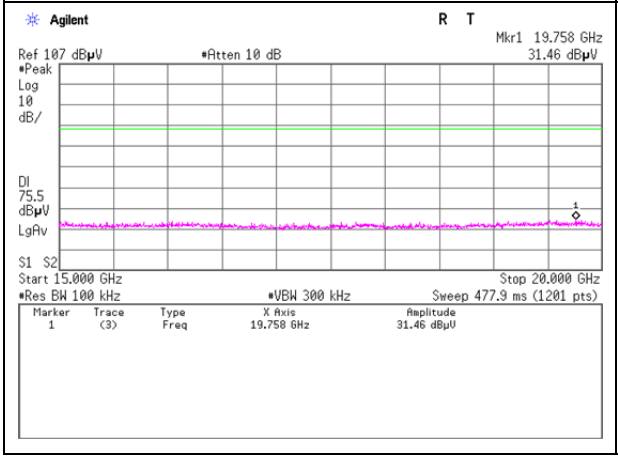
5 GHz – 10 GHz



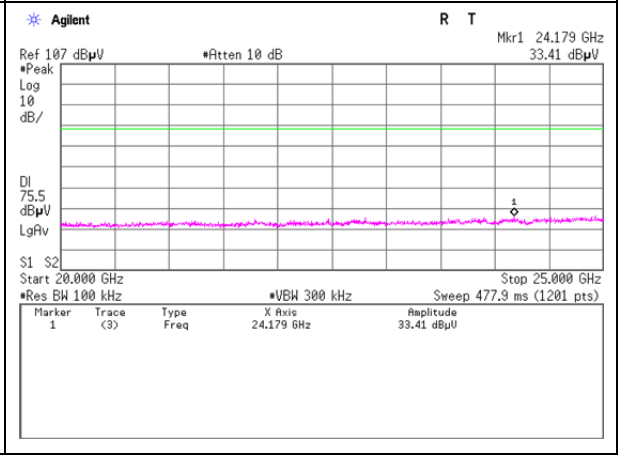
10 GHz – 15 GHz



15 GHz – 20 GHz



20 GHz – 25 GHz

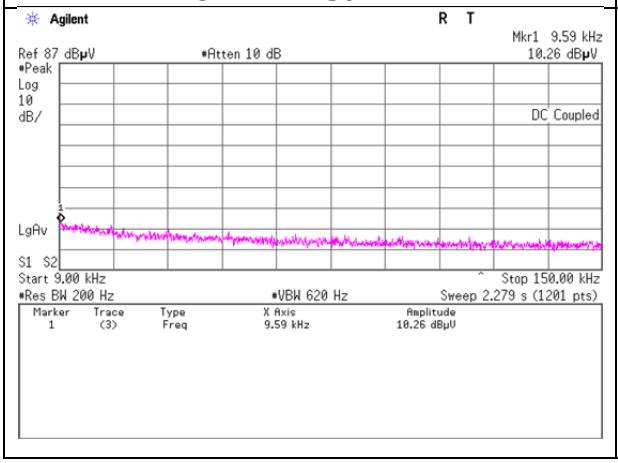


Conducted Spurious Emission

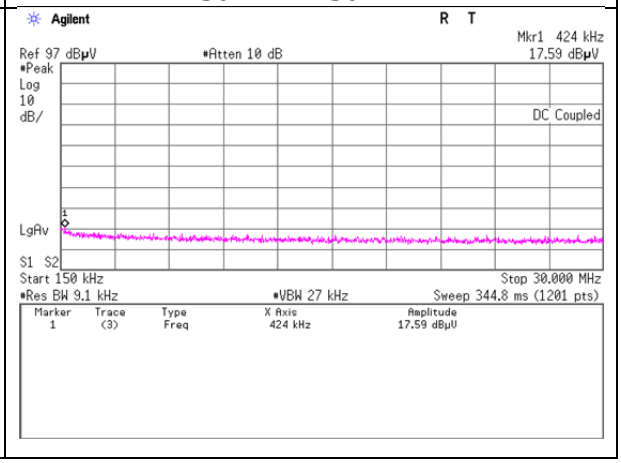
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2402 MHz

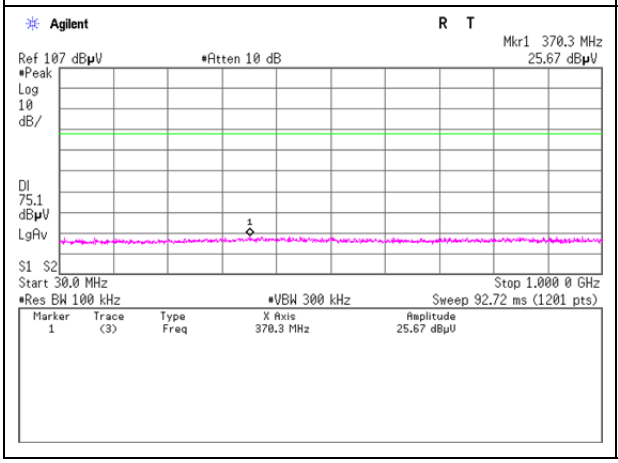
9 kHz – 150 kHz



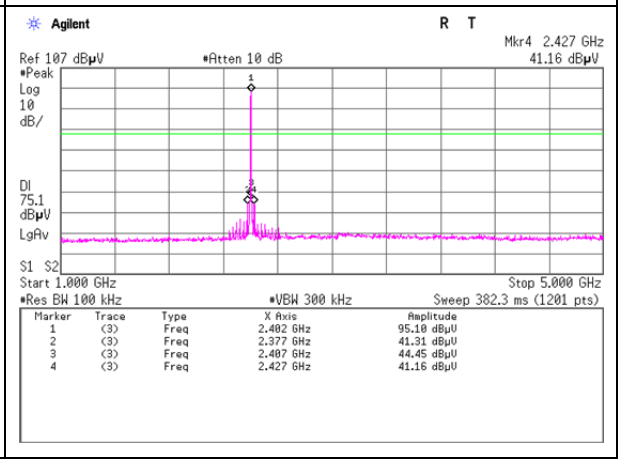
150 kHz – 30 MHz



30 MHz – 1 GHz



1 GHz – 5 GHz



Conducted Spurious Emission

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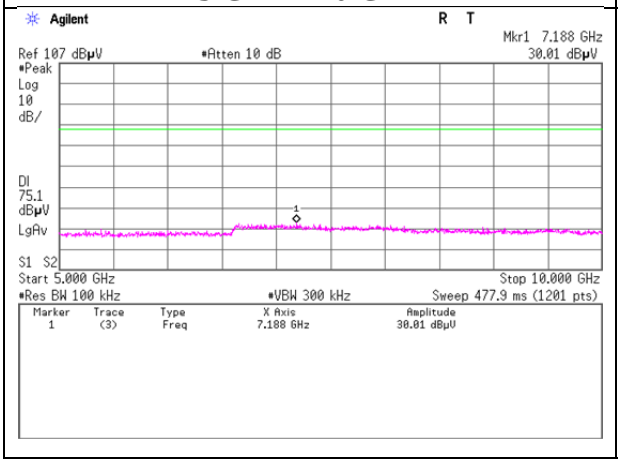
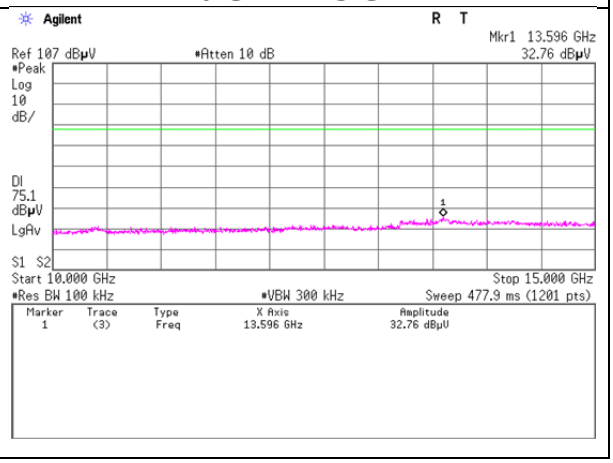
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2402 MHz

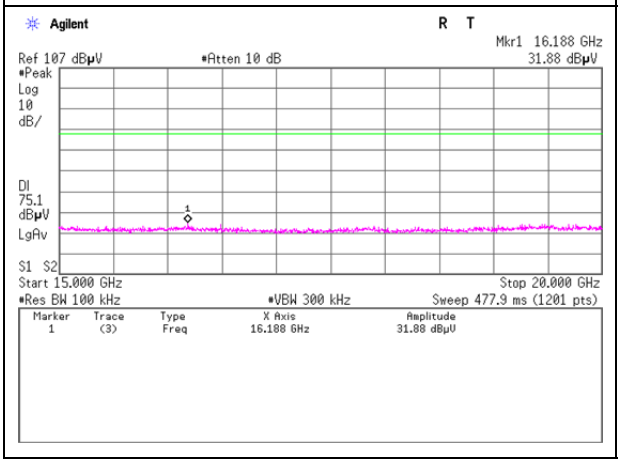
5 GHz – 10 GHz



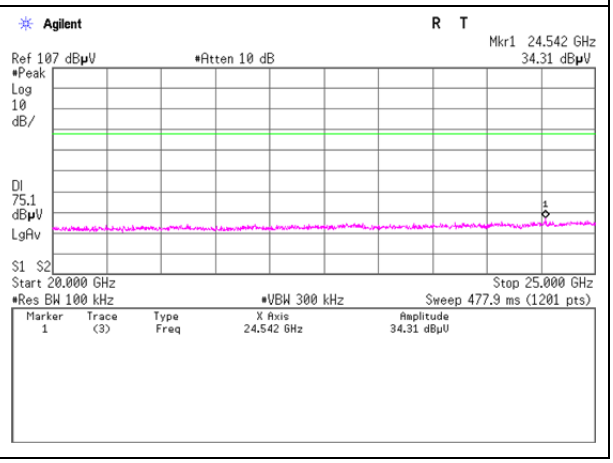
10 GHz – 15 GHz



15 GHz – 20 GHz



20 GHz – 25 GHz



Conducted Spurious Emission

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Date	May 20, 2015
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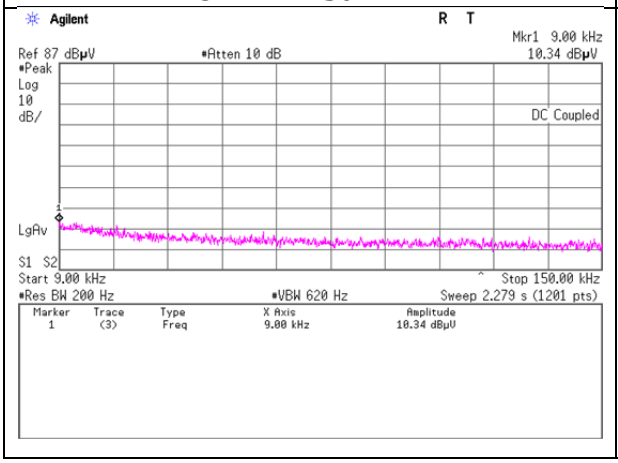
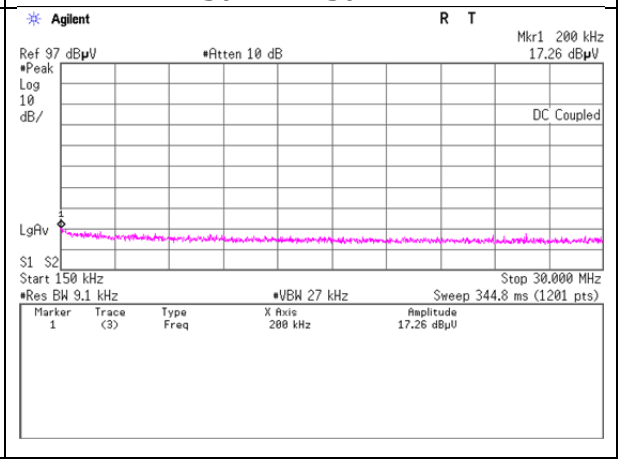
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2441 MHz

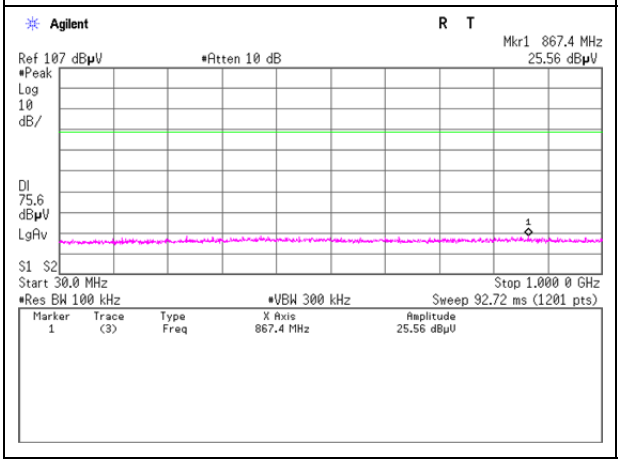
9 kHz - 150 kHz



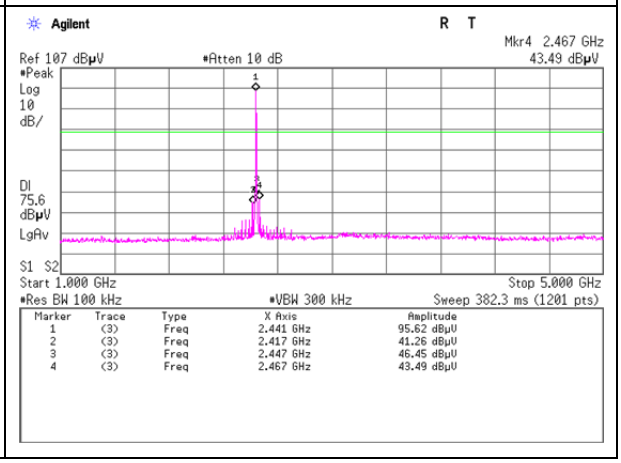
150 kHz - 30 MHz



30 MHz - 1 GHz



1 GHz - 5 GHz



Conducted Spurious Emission

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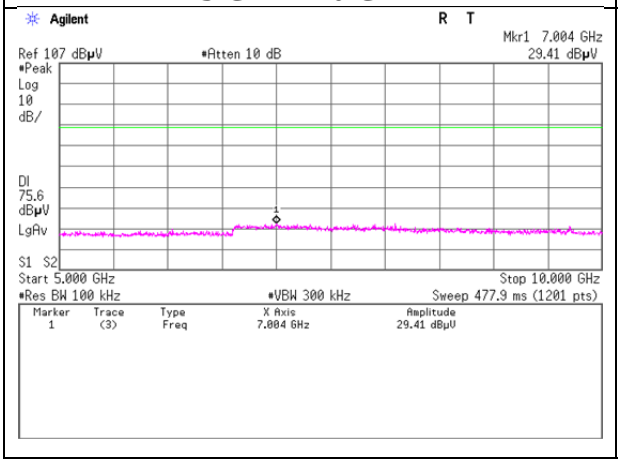
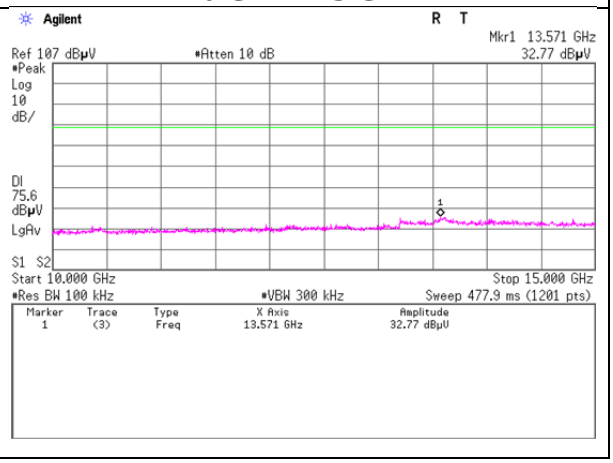
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2441 MHz

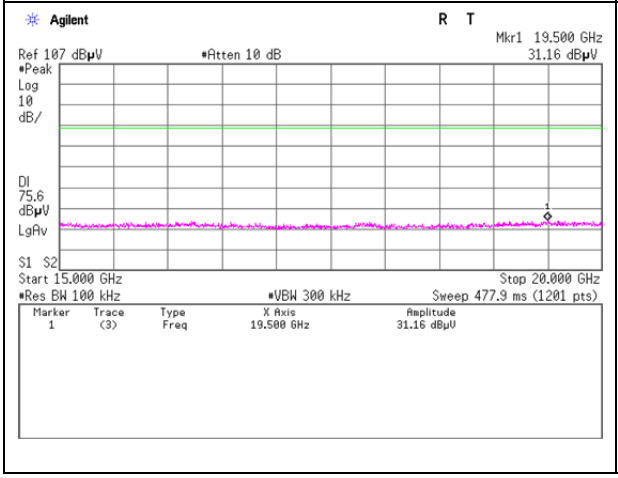
5 GHz - 10 GHz



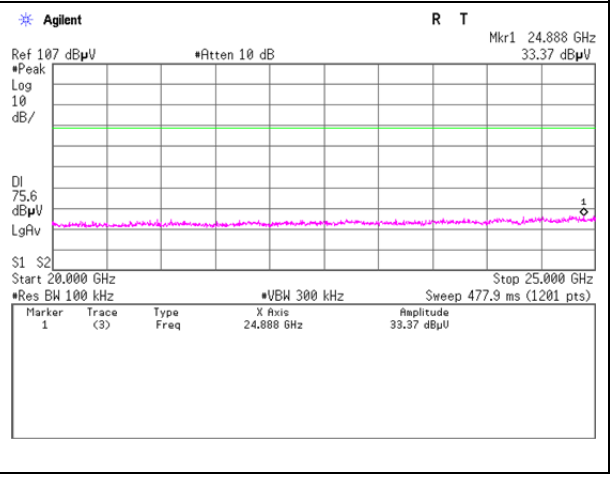
10 GHz - 15 GHz



15 GHz - 20 GHz



20 GHz - 25 GHz



Conducted Spurious Emission

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Date	May 20, 2015
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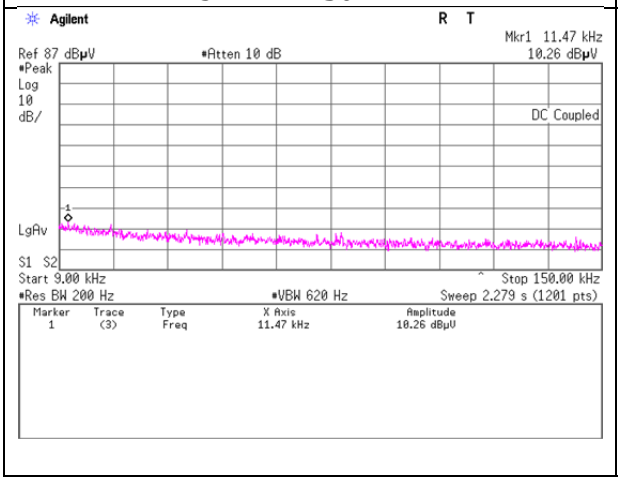
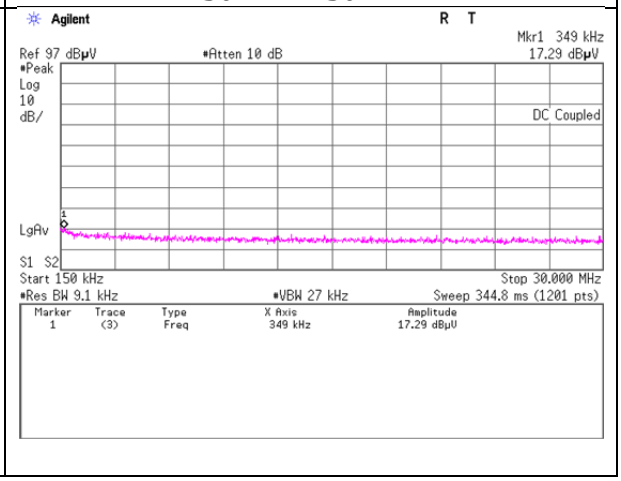
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2480 MHz

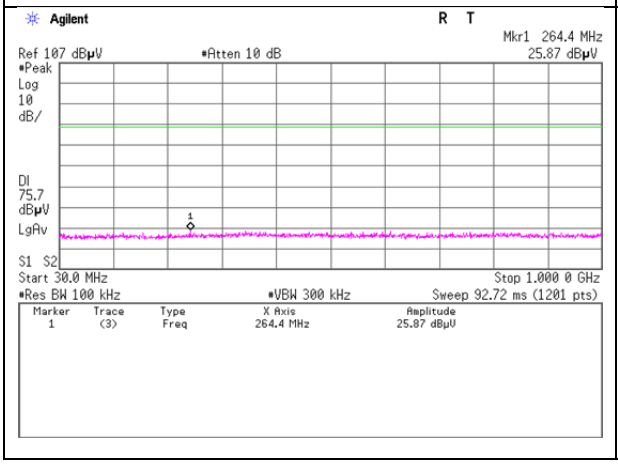
9 kHz - 150 kHz



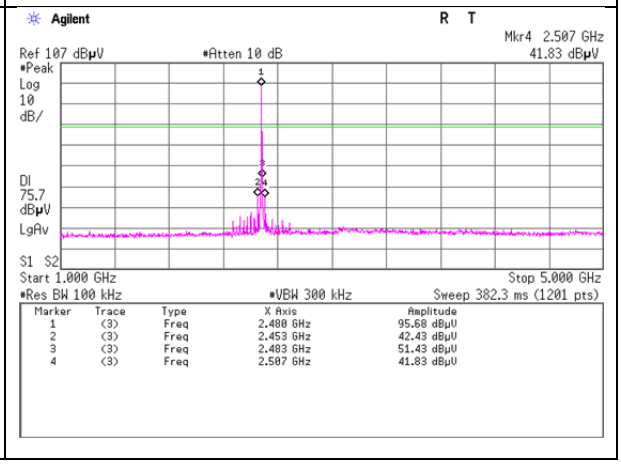
150 kHz - 30 MHz



30 MHz - 1 GHz



1 GHz - 5 GHz

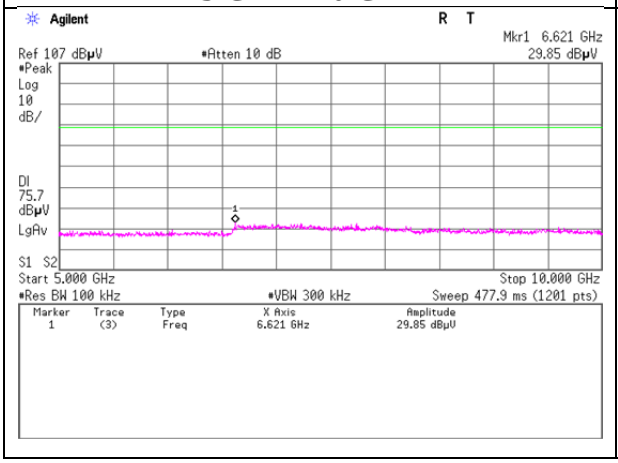


Conducted Spurious Emission

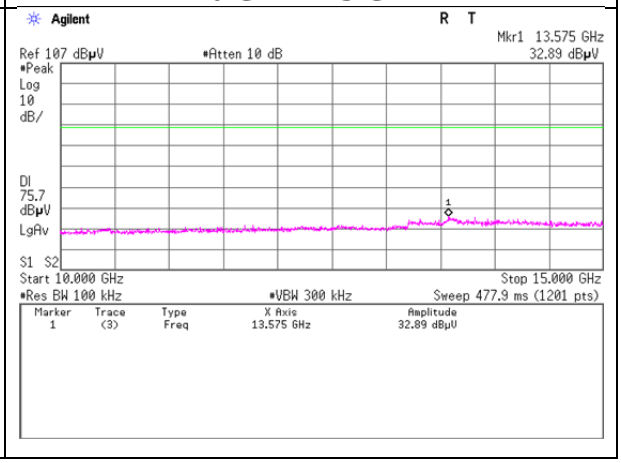
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

2480 MHz

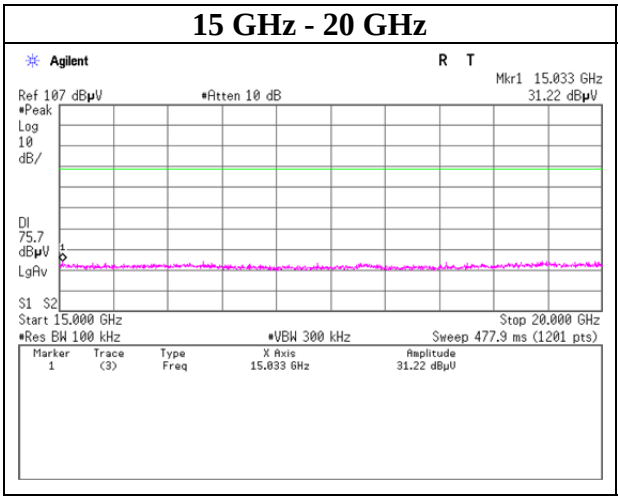
5 GHz - 10 GHz



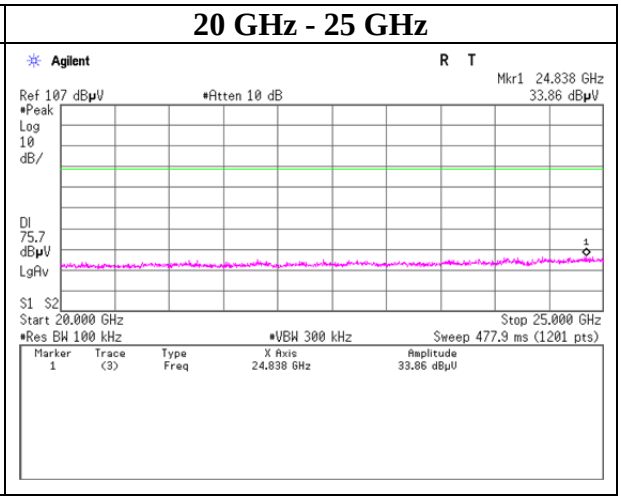
10 GHz - 15 GHz



15 GHz - 20 GHz



20 GHz - 25 GHz

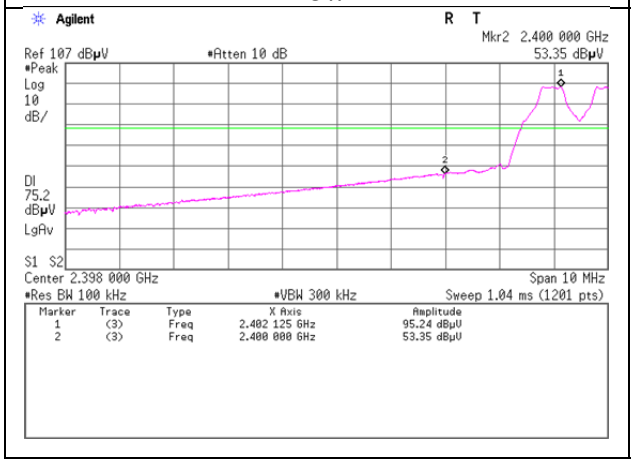


Conducted Emission Band Edge compliance

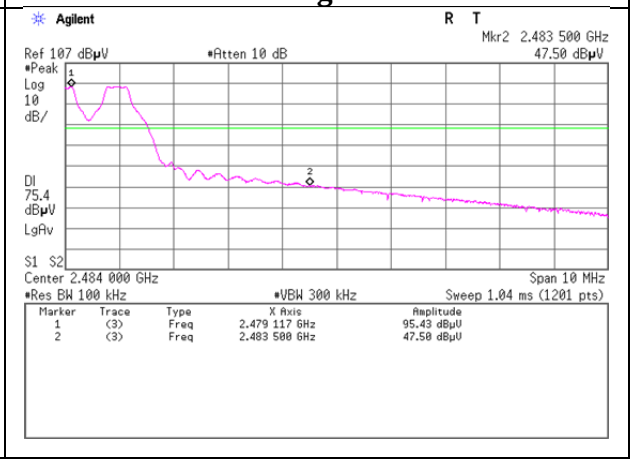
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx DH5

Hopping On

Low

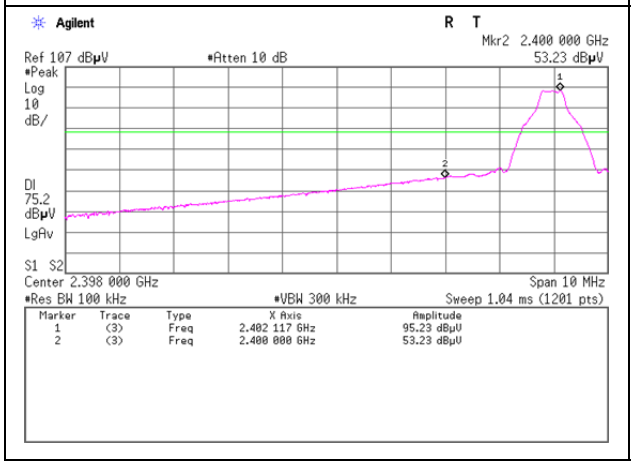


High



Hopping Off

Low



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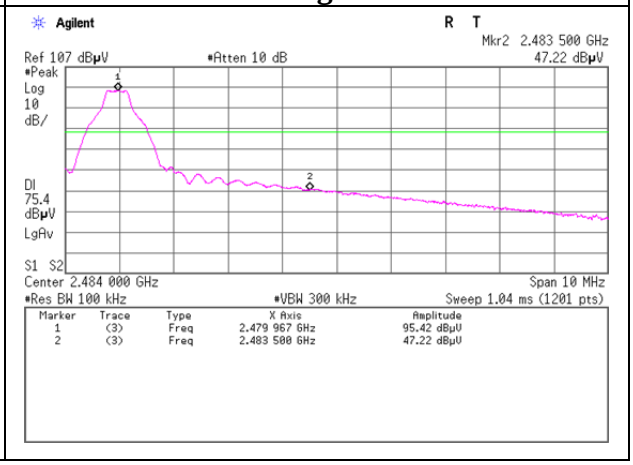
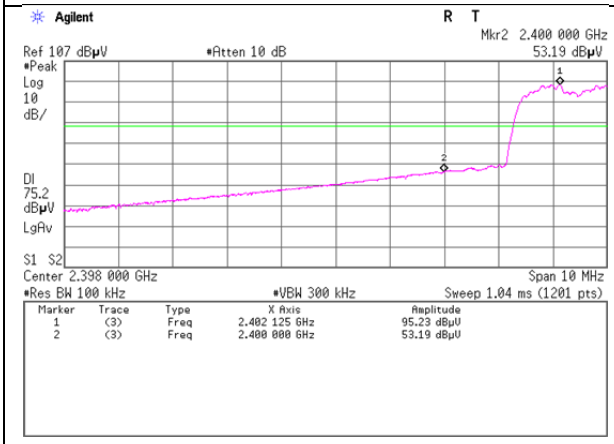


Conducted Emission Band Edge compliance

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx 3DH5

Hopping On

Low



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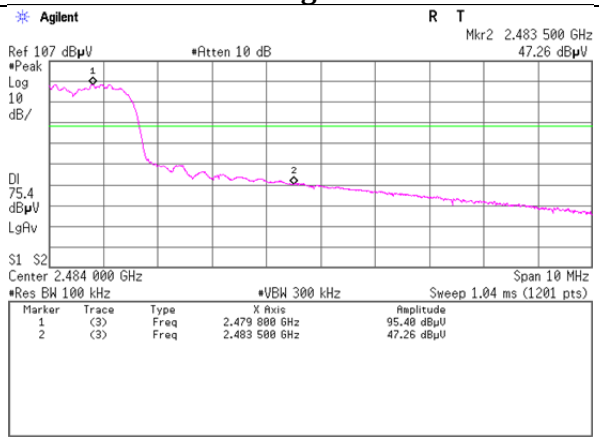
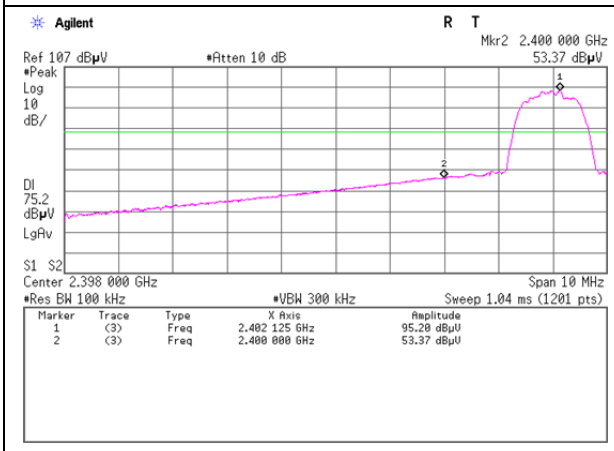


Hopping Off

Low



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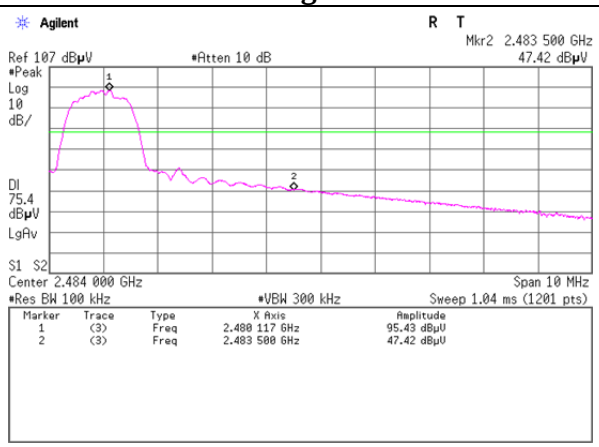
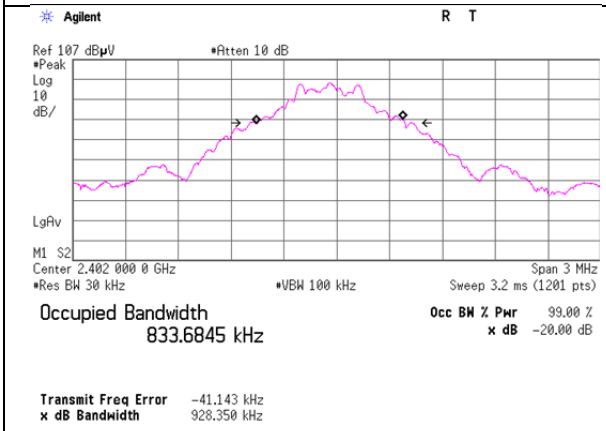


99%Occupied Bandwidth

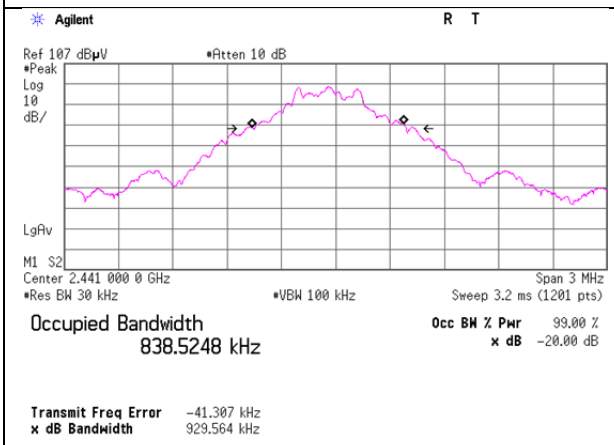
Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx Hopping Off

Hopping Off, DH5

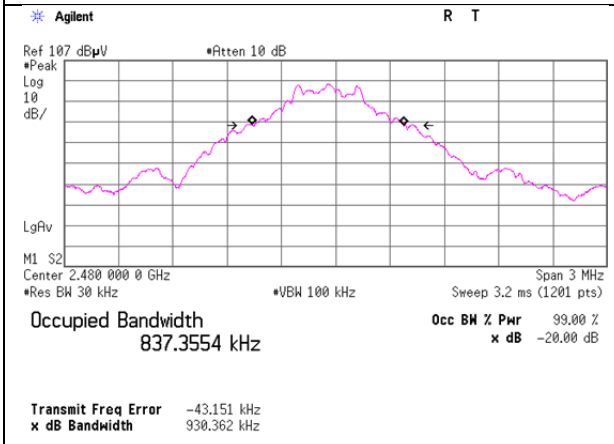
2402 MHz



2441 MHz

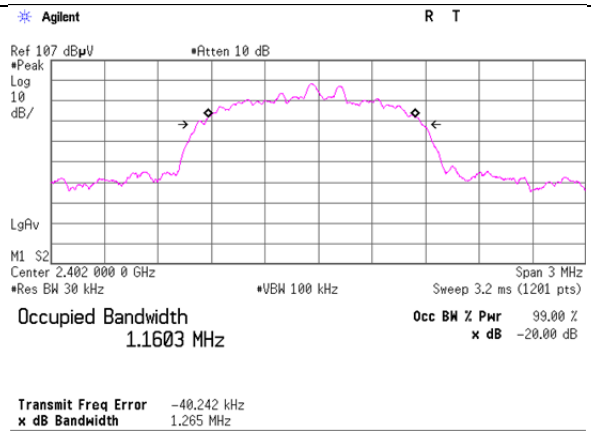


2480 MHz

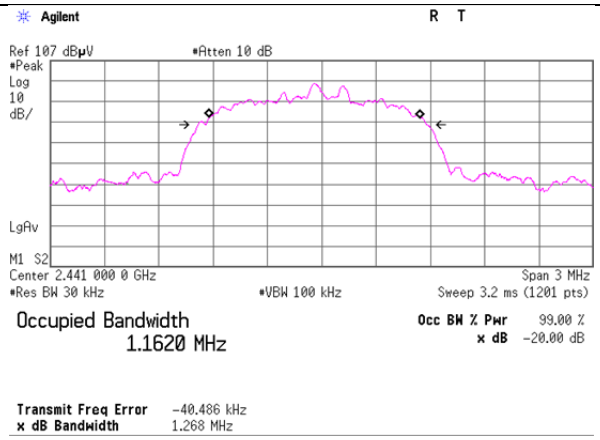


Hopping Off, 3DH5

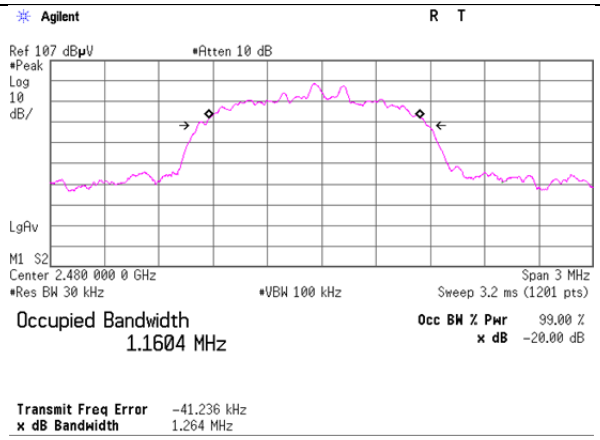
2402 MHz



2441 MHz



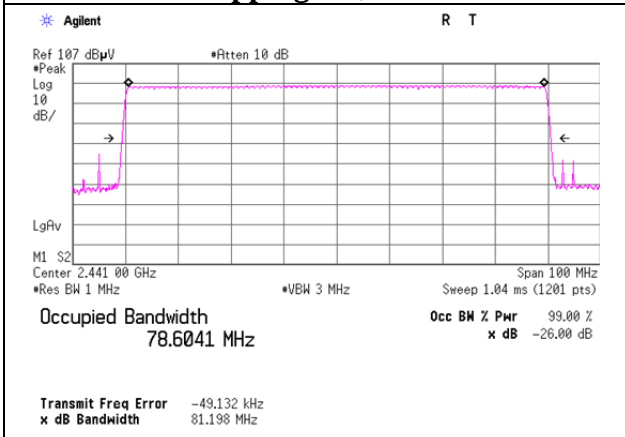
2480 MHz



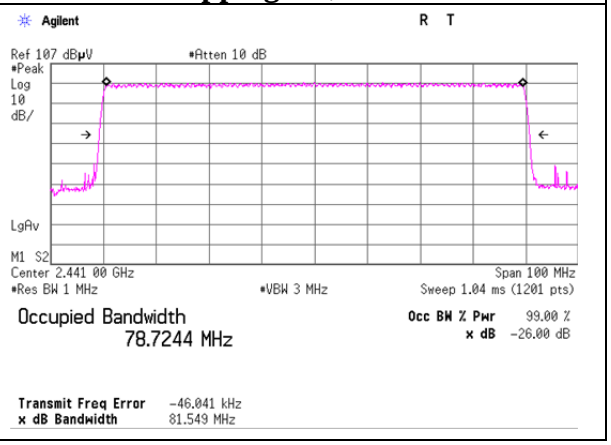
99% Occupied Bandwidth

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10792621H
Date	May 20, 2015
Temperature / Humidity	24 deg. C / 51 % RH
Engineer	Shinichi Miyazono
Mode	Tx Hopping On

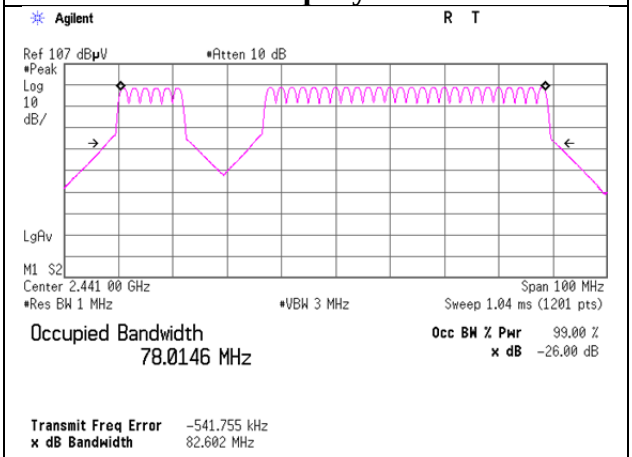
Hopping On, DH5



Hopping On, 3DH5



Inquiry



APPENDIX 2: Test instruments

Test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2015/02/19 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	1301	RE	2015/01/13 * 12
MJM-16	Measure	KOMELON	KMC-36	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE	-
MRENT-116	Spectrum Analyzer	Agilent	E4440A	MY46187620	RE	2015/03/09 * 12
MHA-21	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	9120D-557	RE	2014/08/12 * 12
MCC-167	Microwave Cable	Junkosha	MWX221	1404S374(1m) / 1405S074(5m)	RE	2014/05/26 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2015/03/19 * 12
MHA-17	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170307	RE	2014/06/11 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE	2014/08/19 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2014/10/18 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	174	RE	2014/10/18 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2014/07/14 * 12
MAT-70	Attenuator(6dB)	Agilent	8491A-006	MY52460153	RE	2015/04/08 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2015/03/10 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2014/12/22 * 12
MSA-15	Spectrum Analyzer	Agilent	E4440A	MY46187105	AT	2014/11/11 * 12
MAT-24	Attenuator(10dB)(above 1GHz)	Agilent	8493C	71389	AT	2014/06/12 * 12
MCC-163	Microwave Cable	Murata	MXGS83RK3000	-	AT	2014/11/05 * 12
MPM-13	Power Meter	Anritsu	ML2495A	0824014	AT	2014/11/11 * 12
MPSE-18	Power sensor	Anritsu	MA2411B	0738174	AT	2014/11/11 * 12
MCC-38	Coaxial Cable	UL Japan	-	-	AT	2014/12/02 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	BL1173	AT	2014/11/19 * 12

The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item: **RE: Radiated Emission test**
AT: Antenna Terminal Conducted test