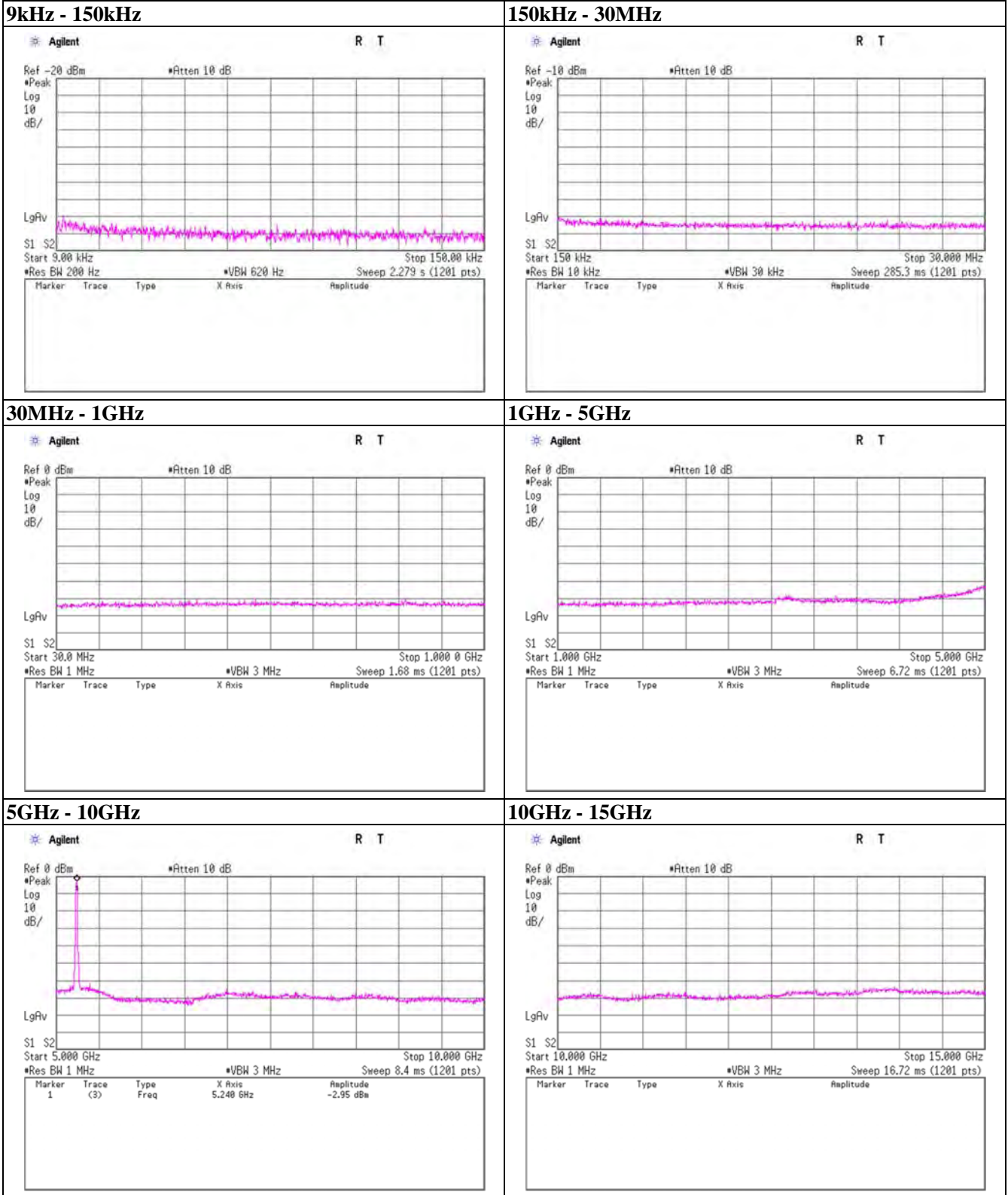


**Spurious emission (Conducted)**

11a

Tx, 5240MHz



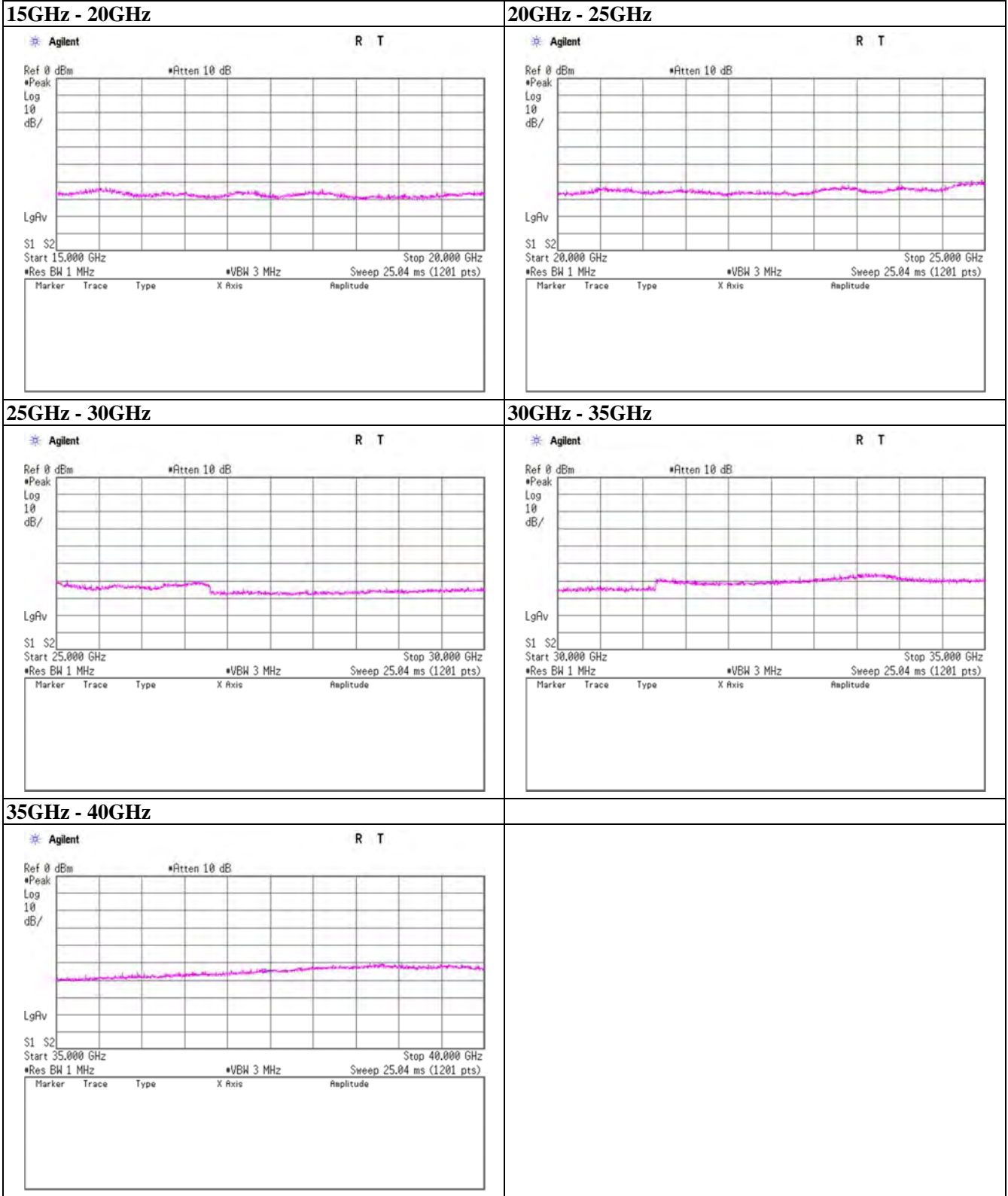
UL Japan, Inc.  
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11a

Tx, 5240MHz



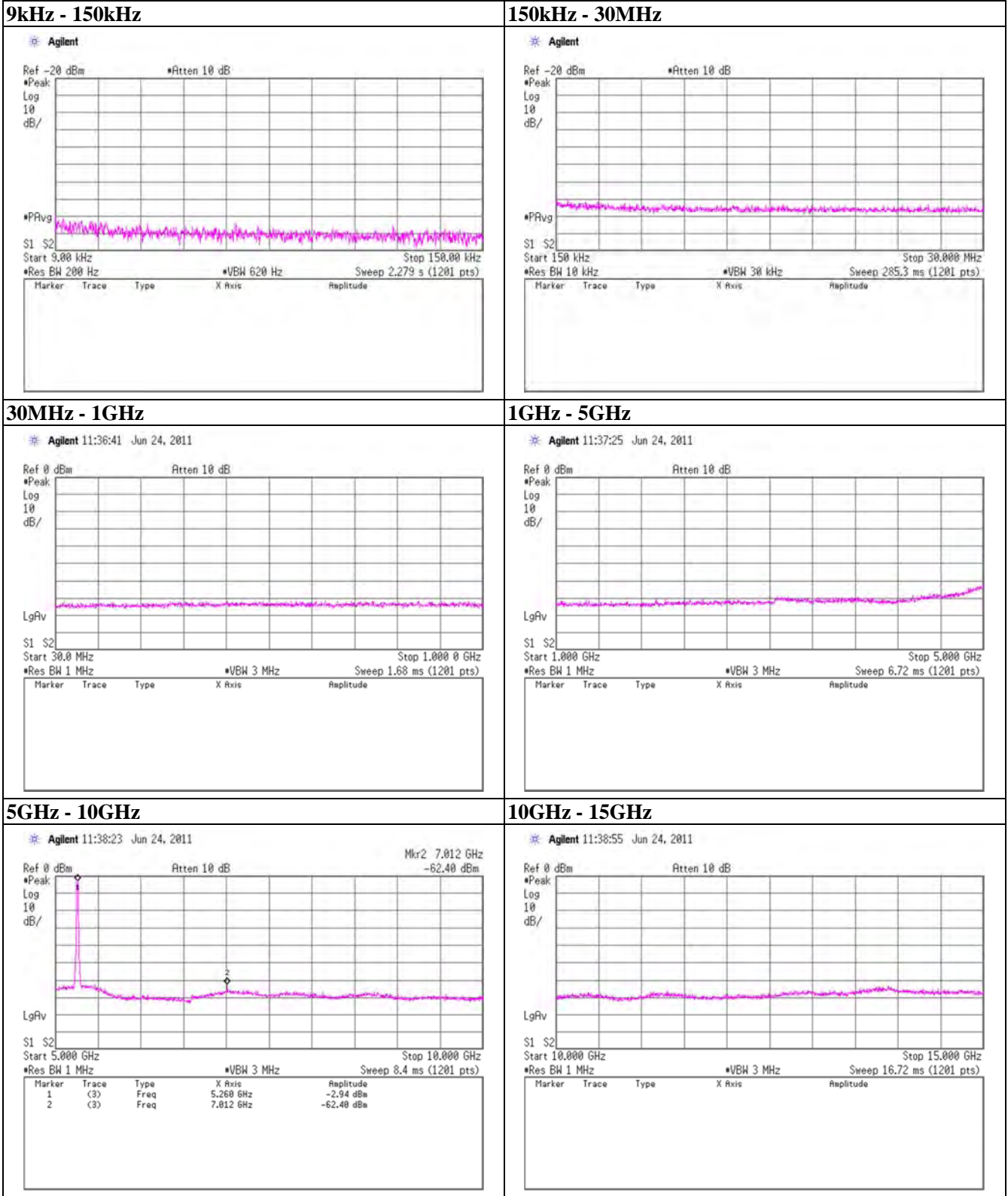
UL Japan, Inc.  
Shonan EMC Lab.

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Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11a

Tx, 5260MHz



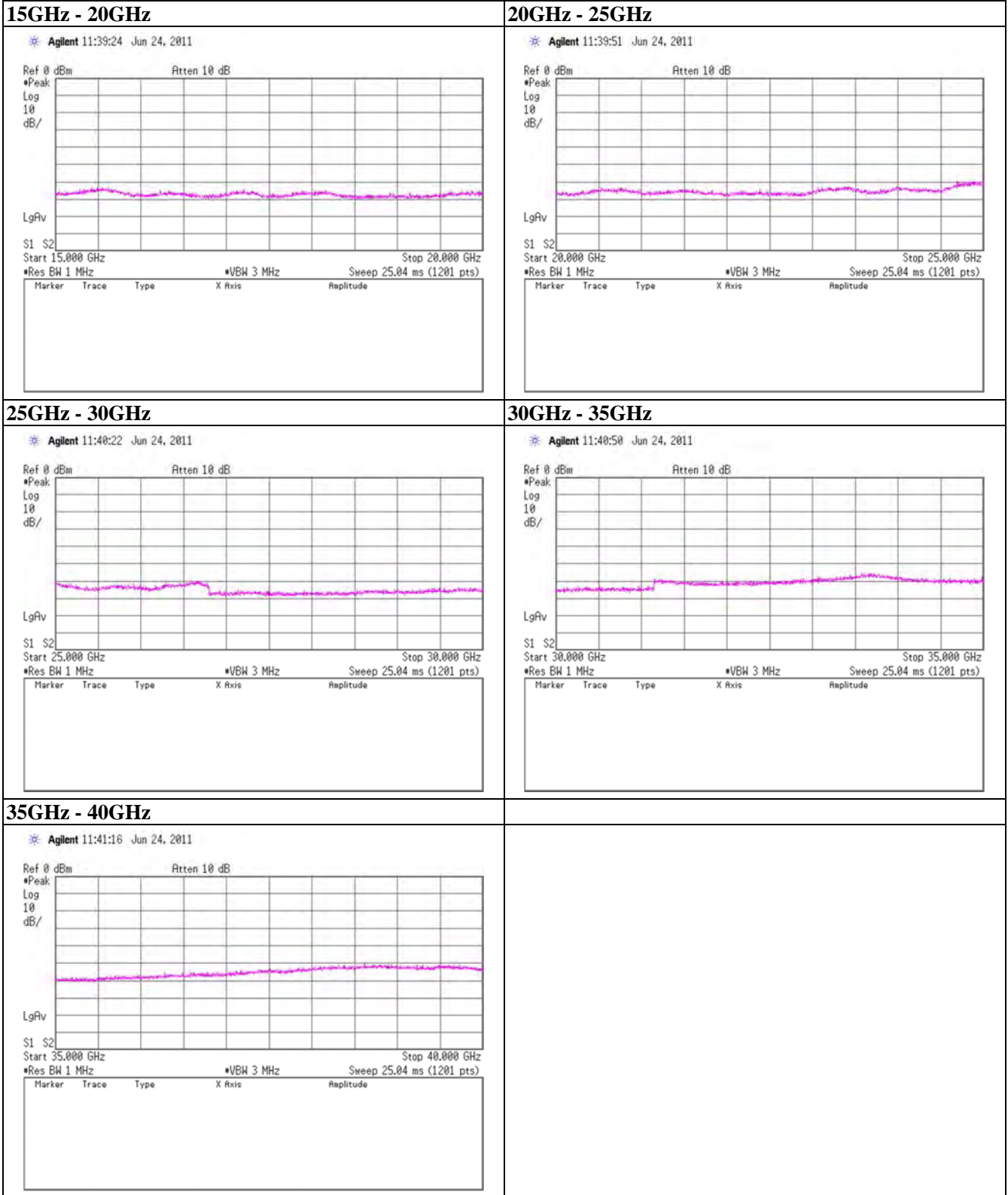
UL Japan, Inc.  
 Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11a

Tx, 5260MHz



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Shonan EMC Lab.

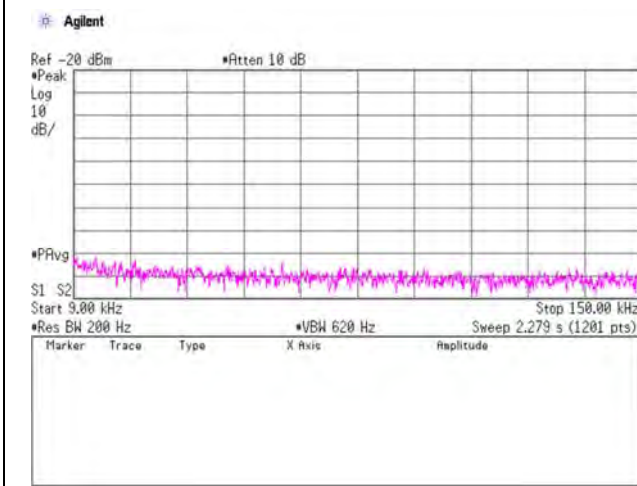
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

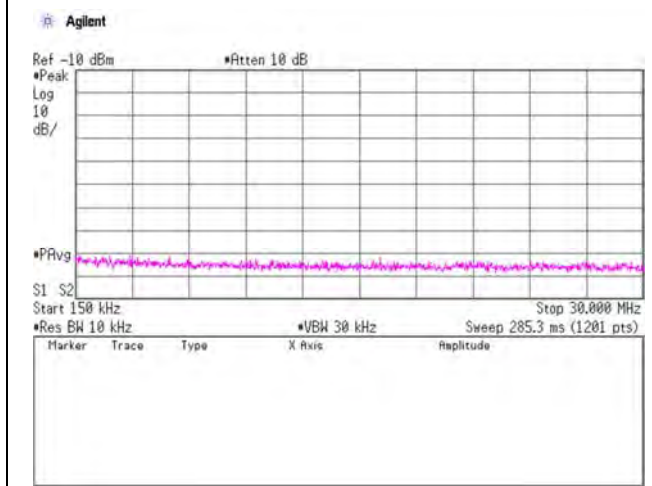
11a

Tx, 5280MHz

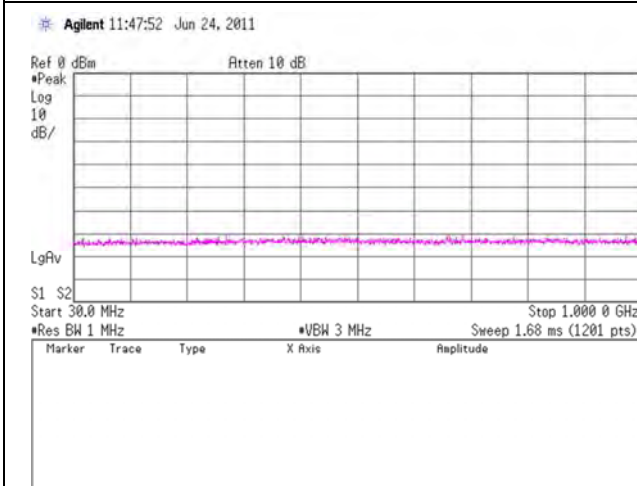
**9kHz - 150kHz**



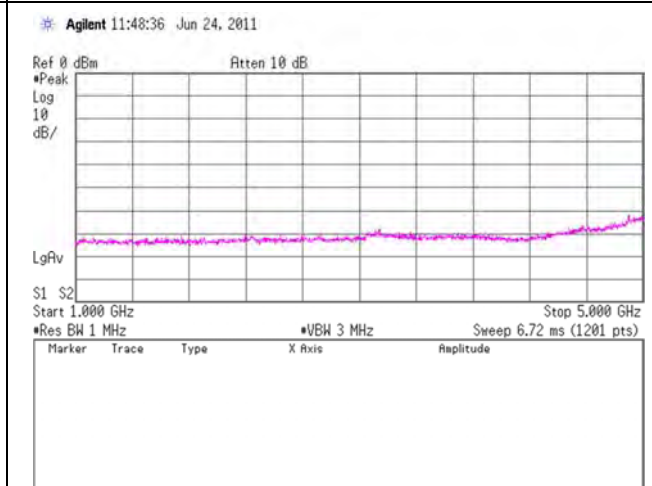
**150kHz - 30MHz**



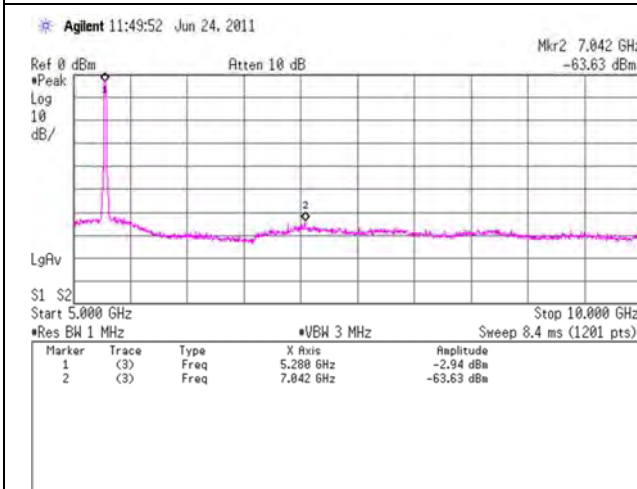
**30MHz - 1GHz**



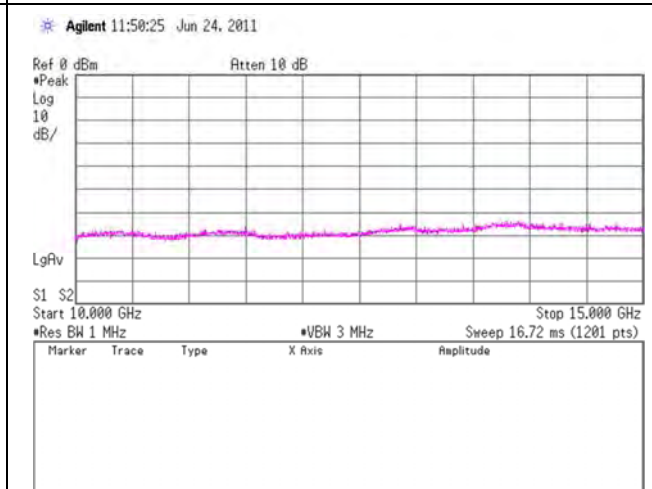
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



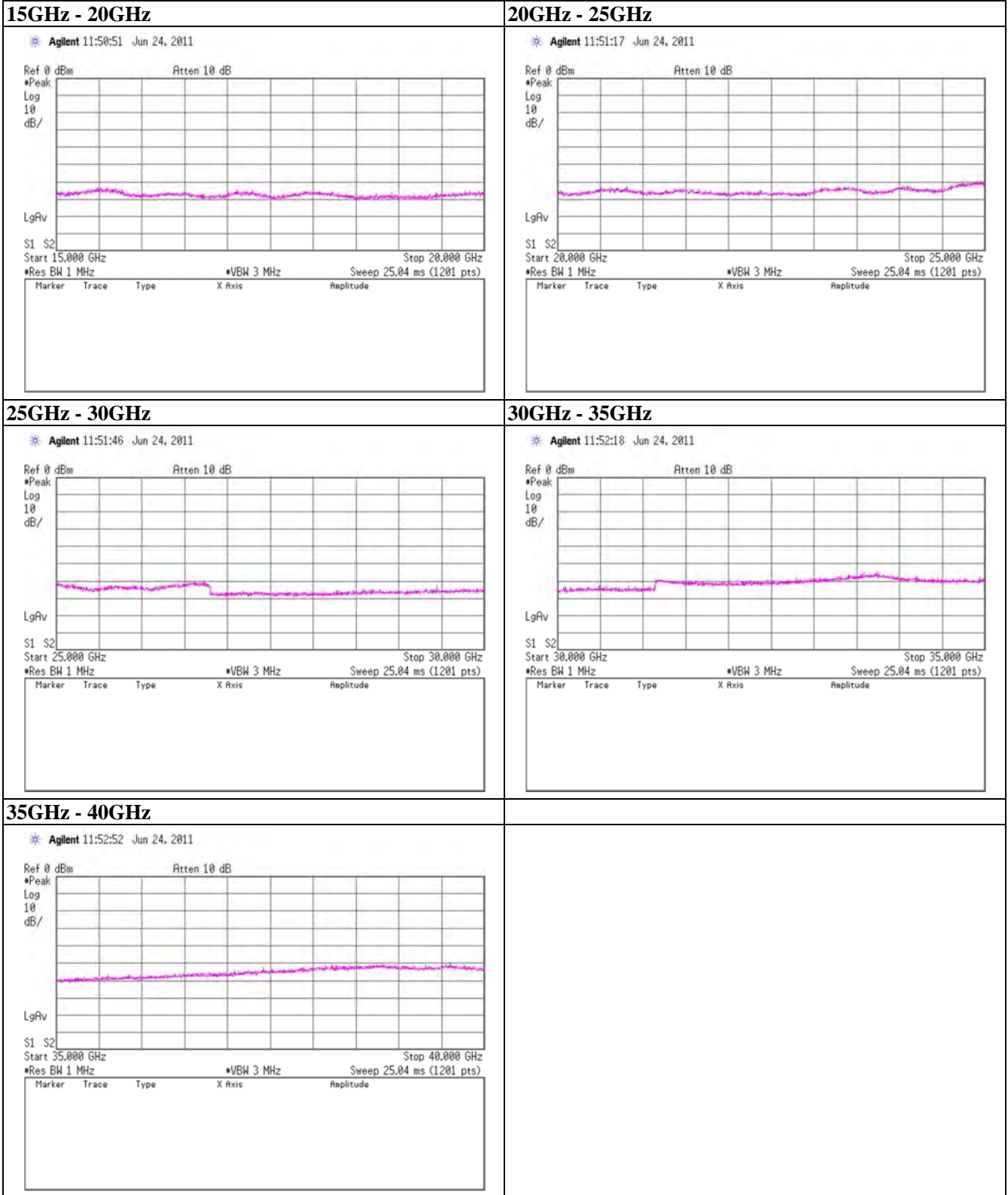
UL Japan, Inc.  
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Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11a

Tx, 5280MHz



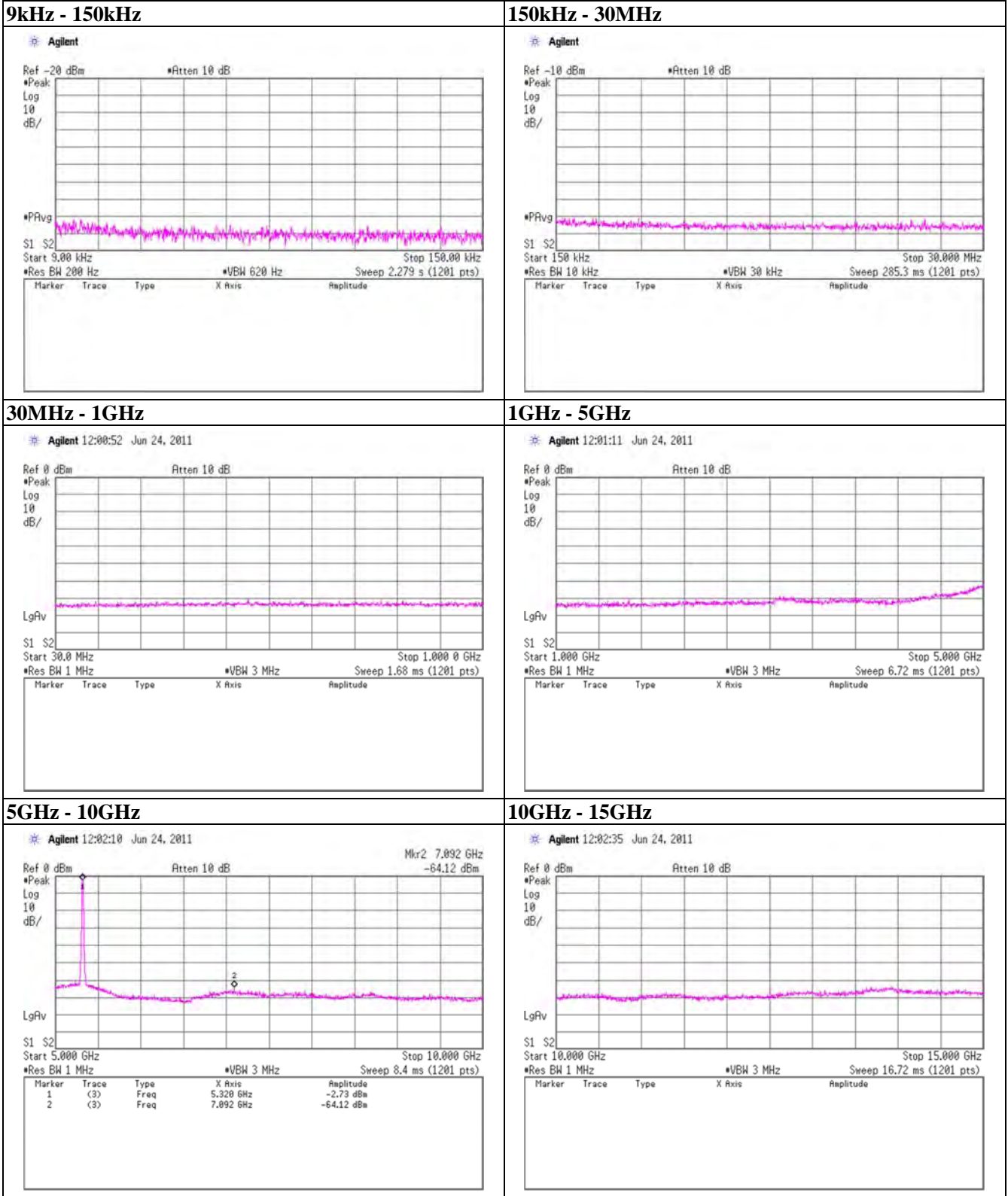
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Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11a

Tx, 5320MHz



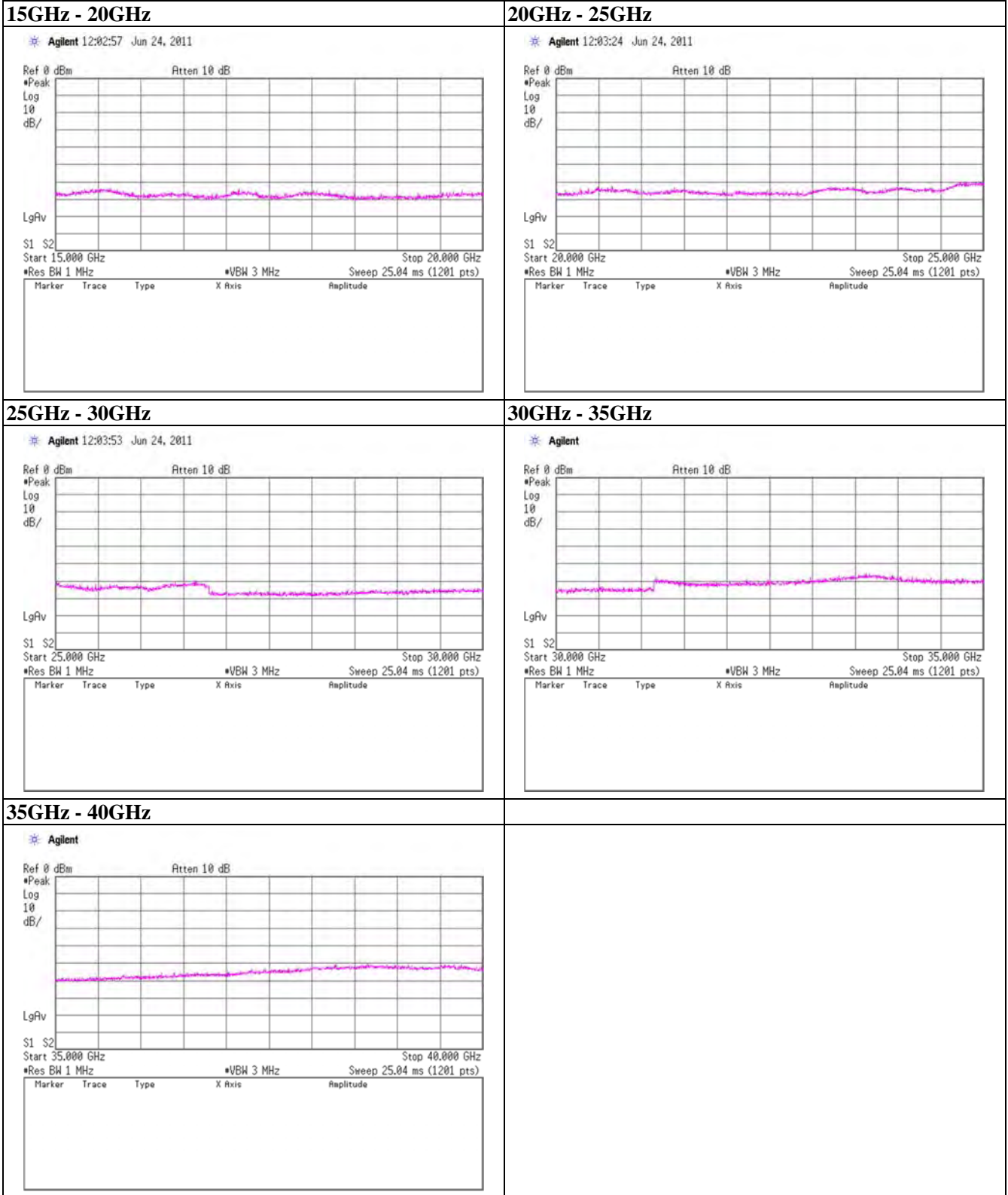
UL Japan, Inc.  
 Shonan EMC Lab.

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**Spurious emission (Conducted)**

11a

Tx, 5320MHz



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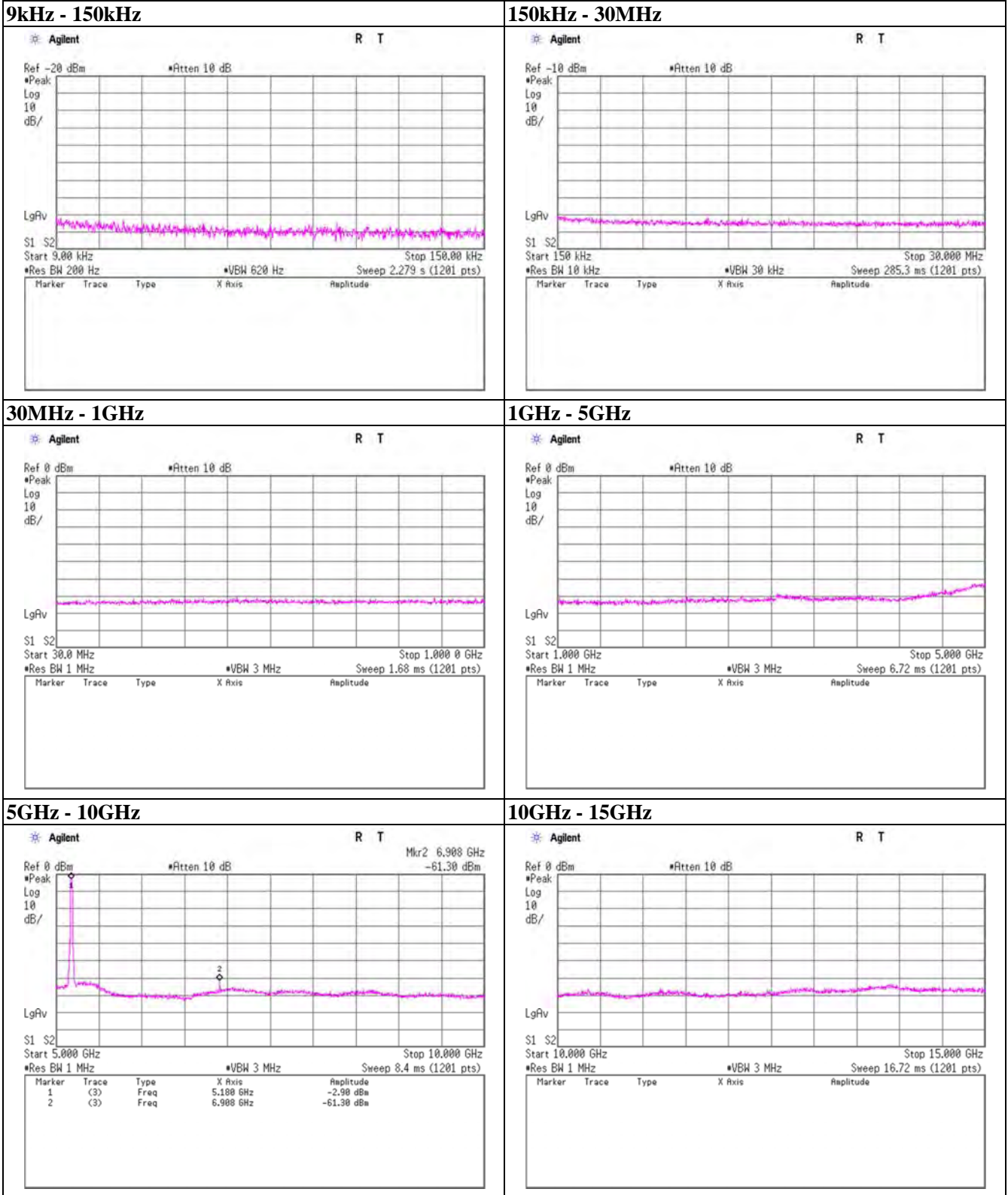
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401



**Spurious emission (Conducted)**

11n-HT20

Tx, 5180MHz



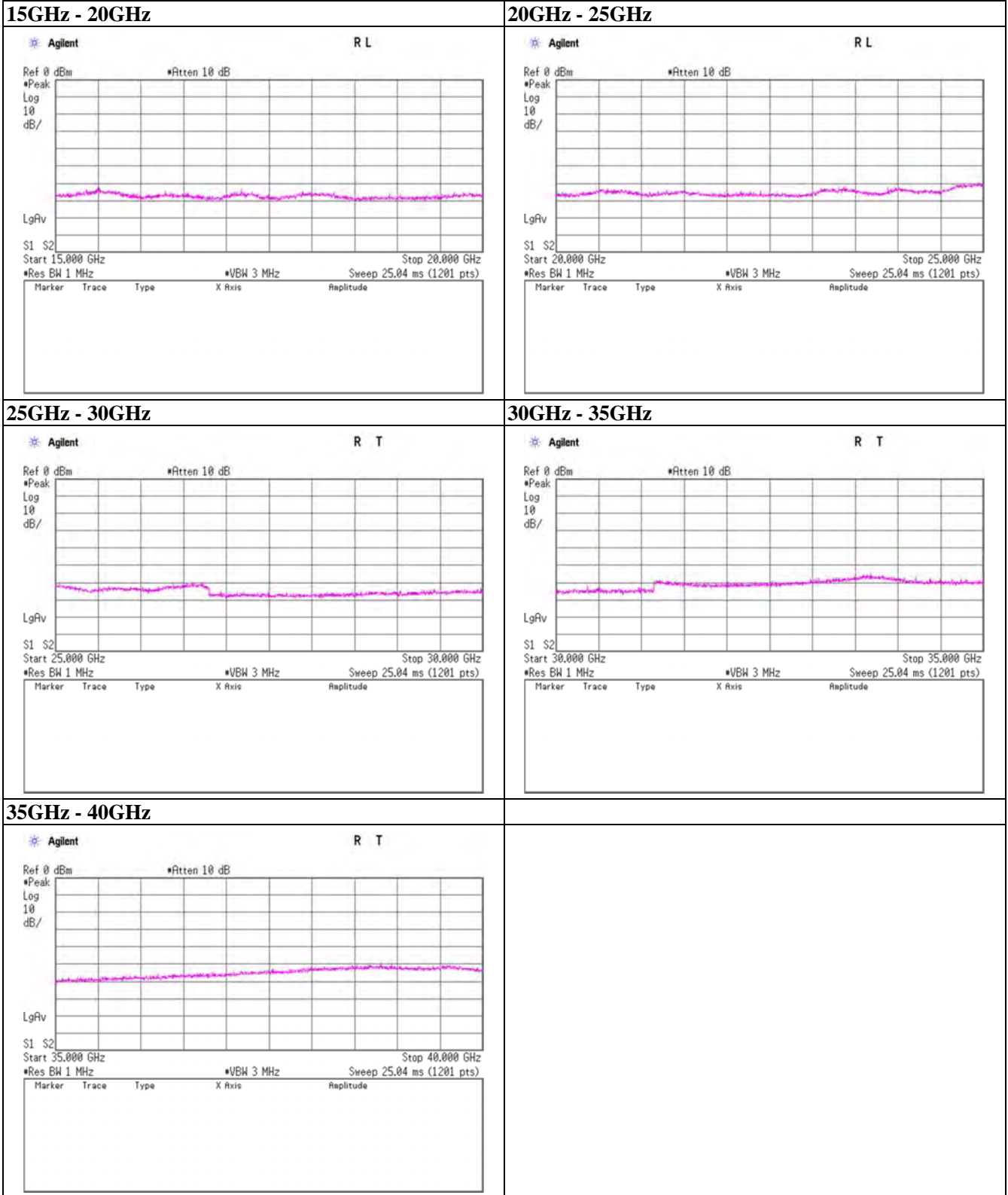
UL Japan, Inc.  
 Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11n-HT20

Tx, 5180MHz



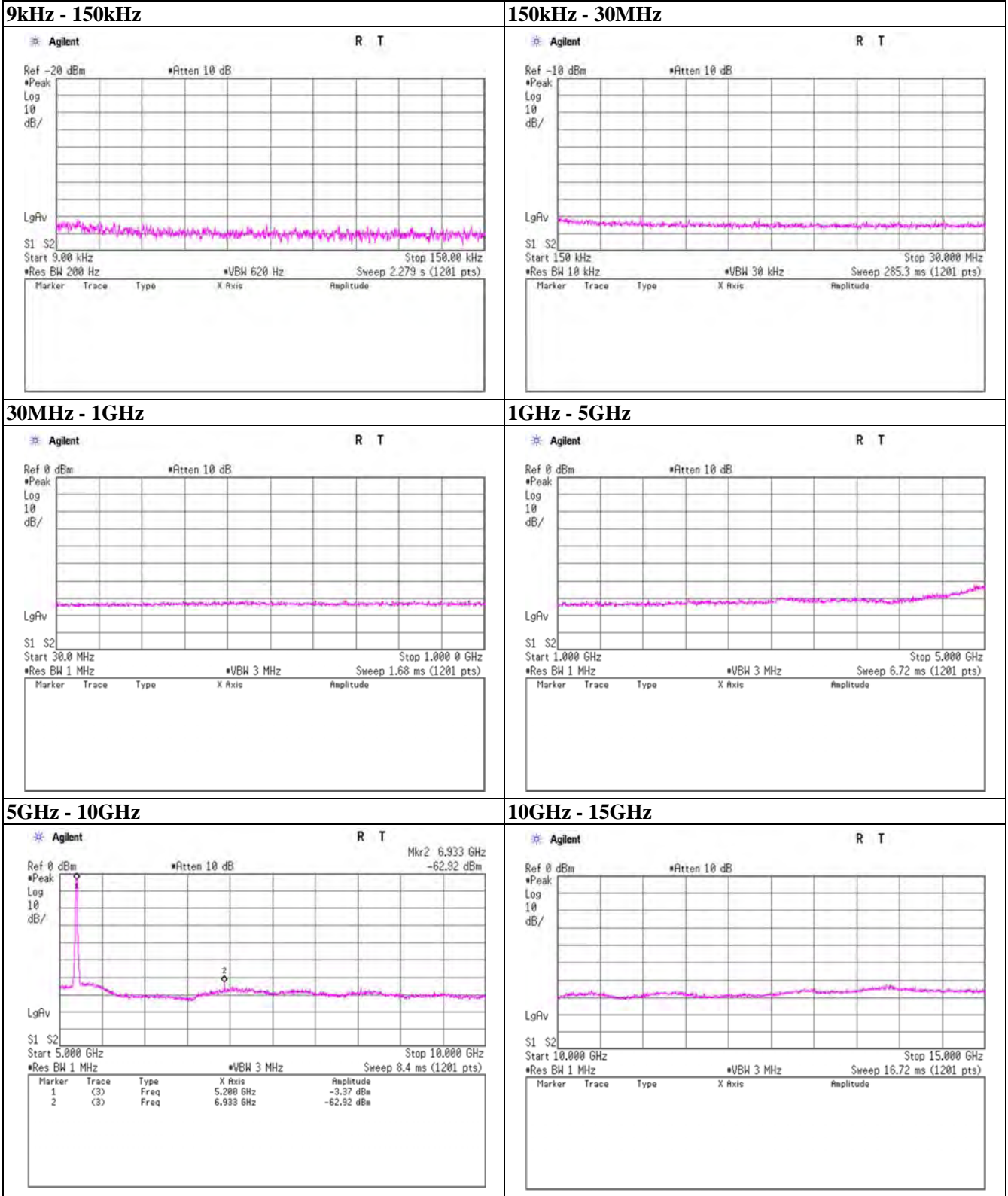
UL Japan, Inc.  
Shonan EMC Lab.

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Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11n-HT20

Tx, 5200MHz



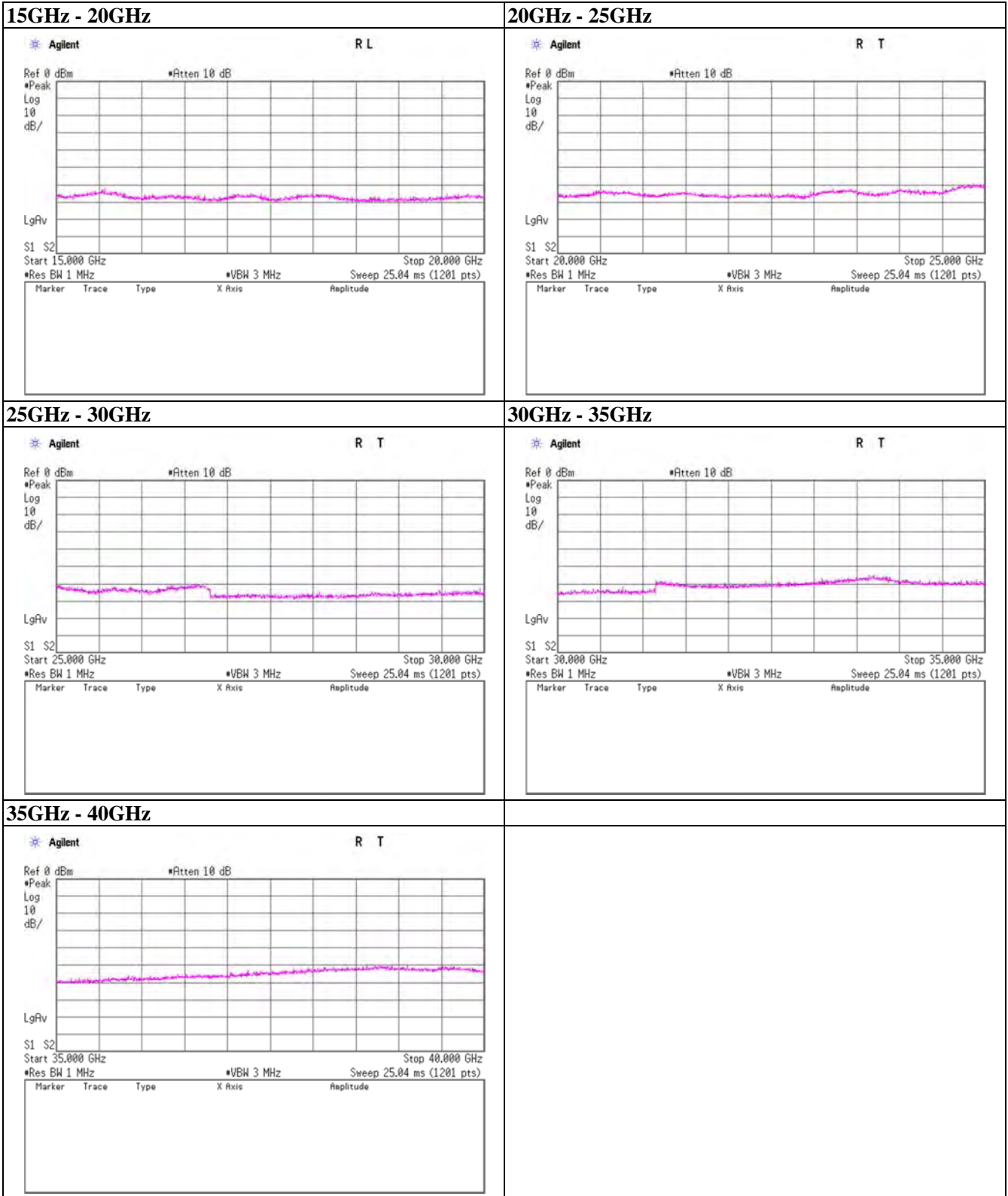
UL Japan, Inc.  
Shonan EMC Lab.

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Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11n-HT20

Tx, 5200MHz



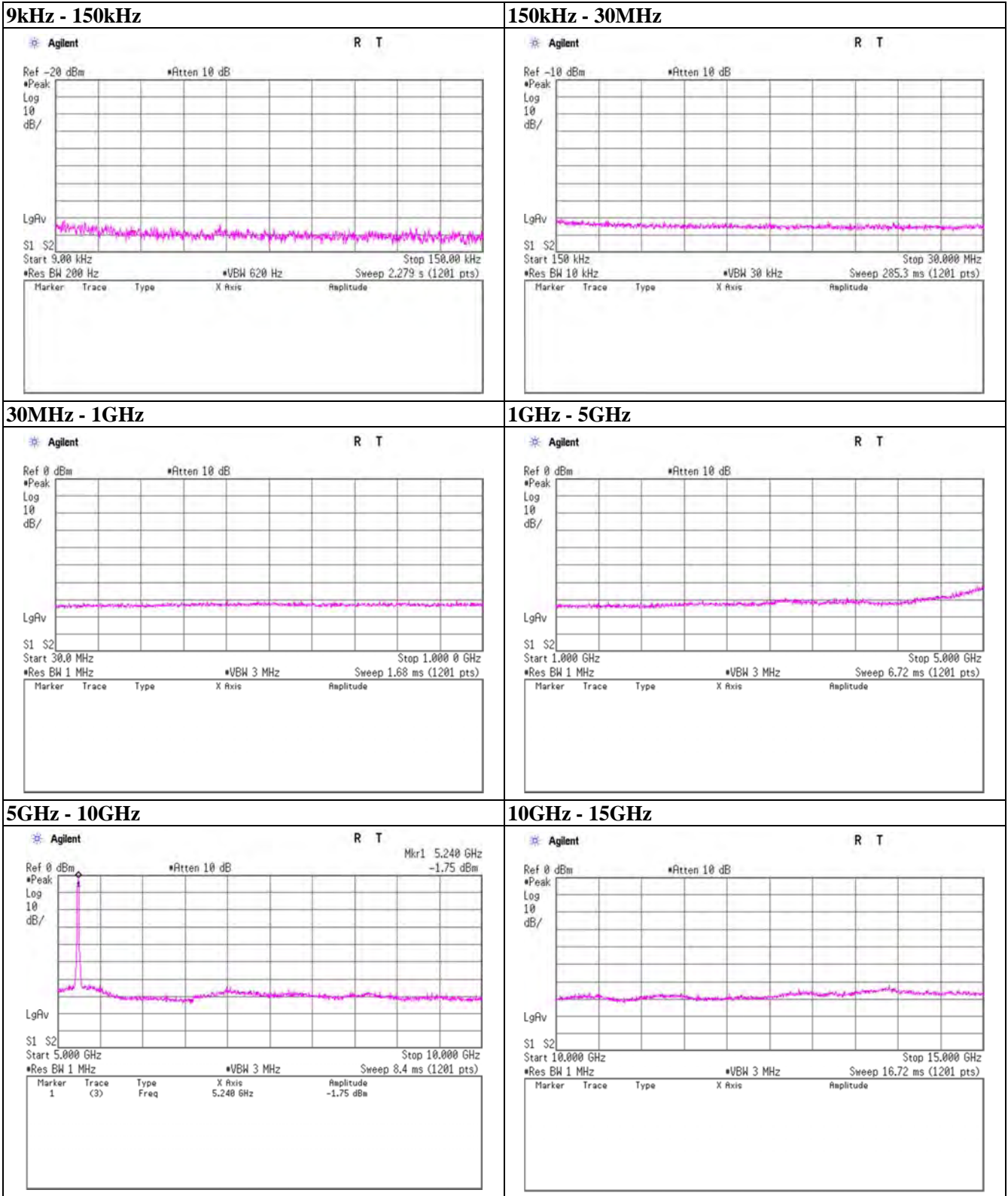
UL Japan, Inc.  
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
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Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11n-HT20

Tx, 5240MHz



UL Japan, Inc.  
Shonan EMC Lab.

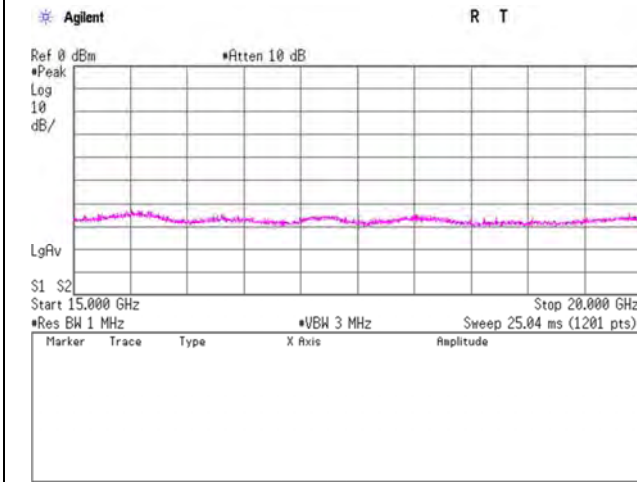
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

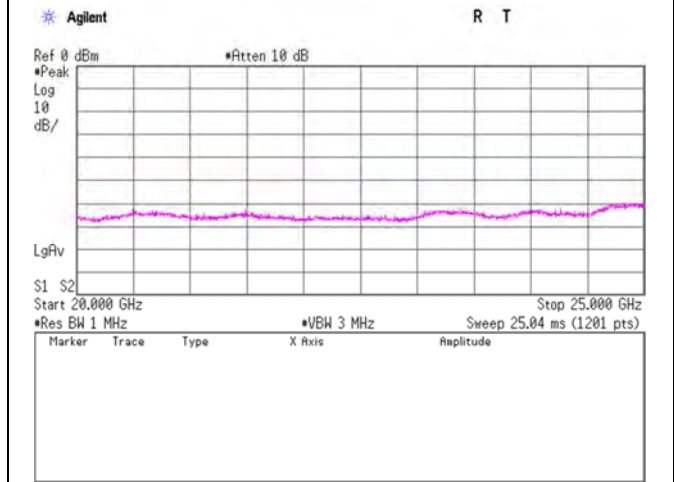
11n-HT20

Tx, 5240MHz

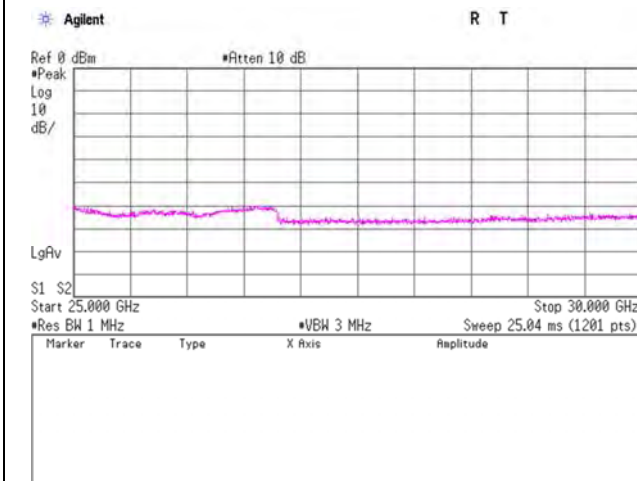
**15GHz - 20GHz**



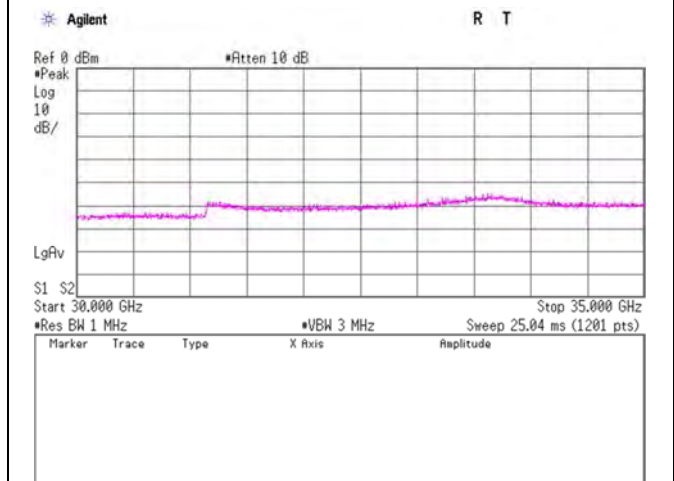
**20GHz - 25GHz**



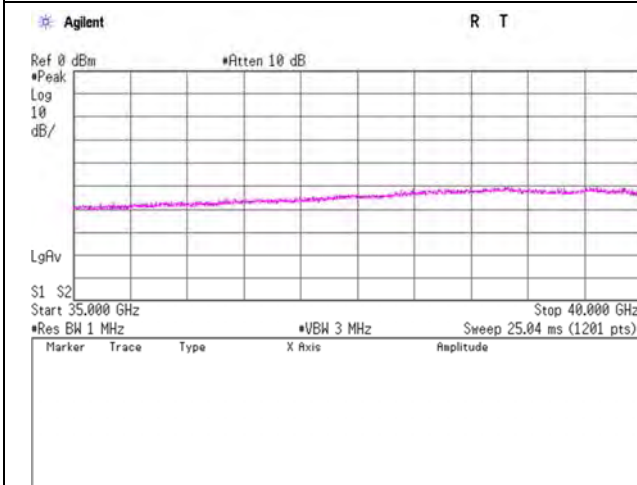
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



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Shonan EMC Lab.

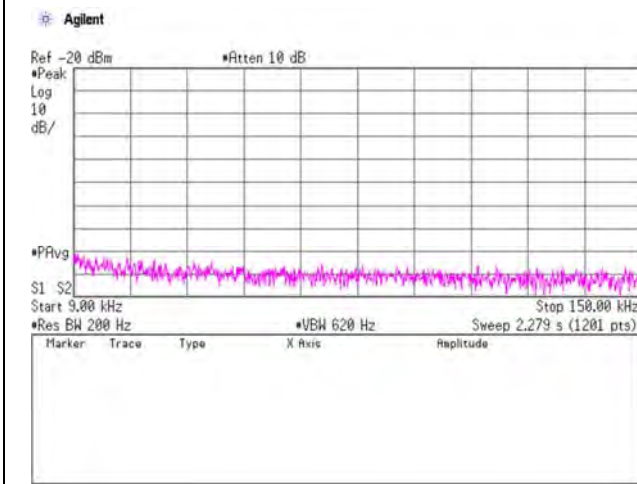
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

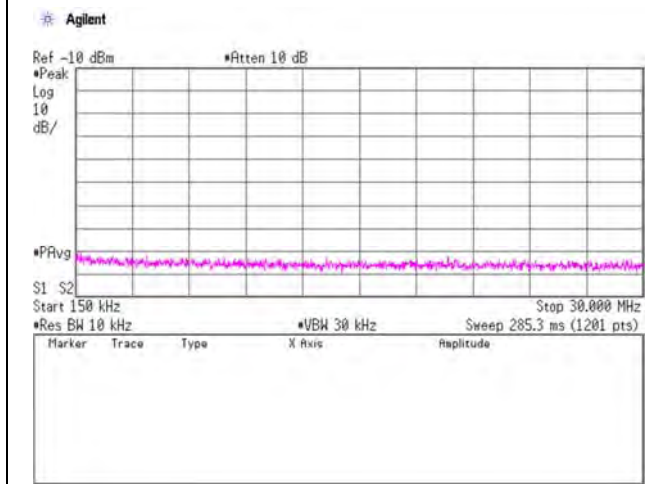
11n-HT20

Tx, 5260MHz

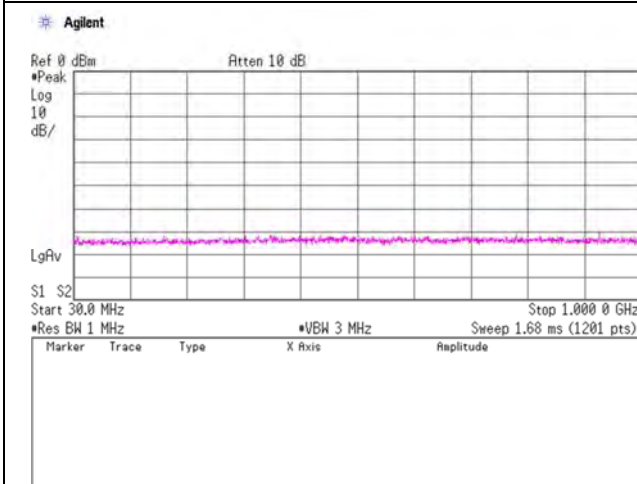
**9kHz - 150kHz**



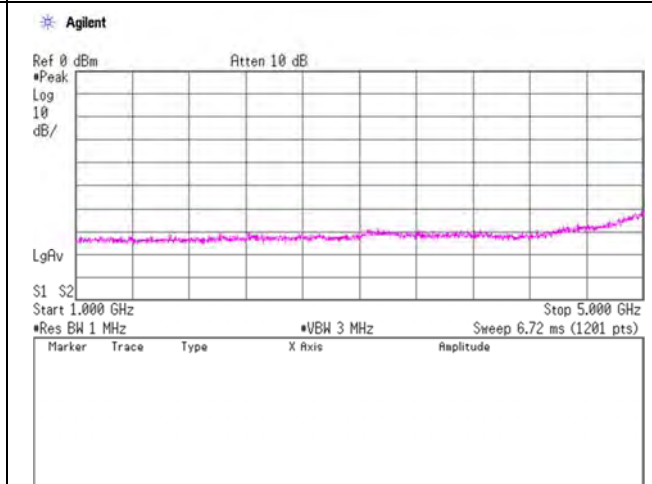
**150kHz - 30MHz**



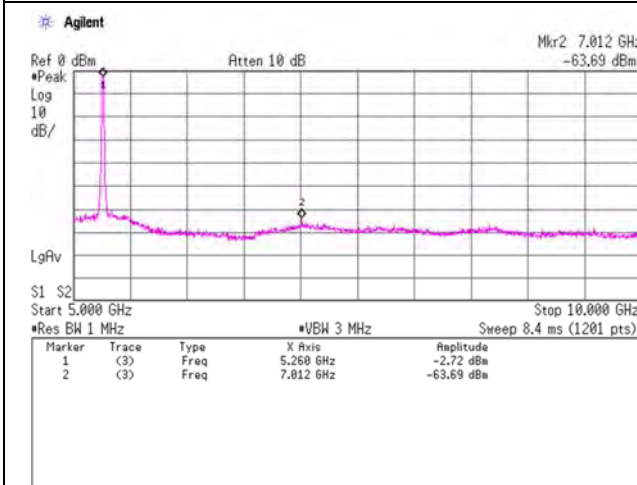
**30MHz - 1GHz**



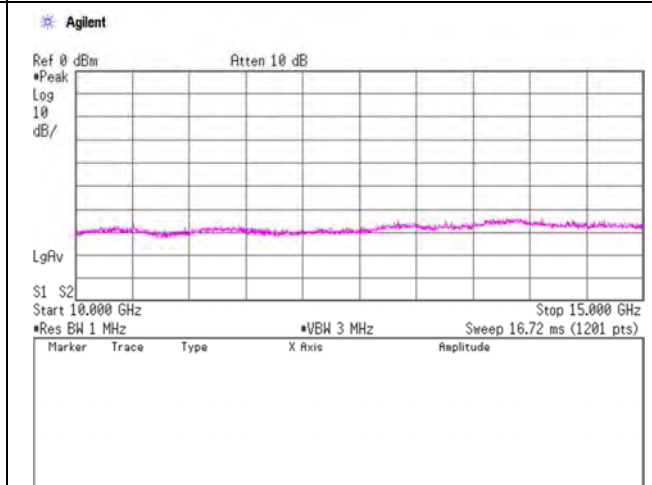
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



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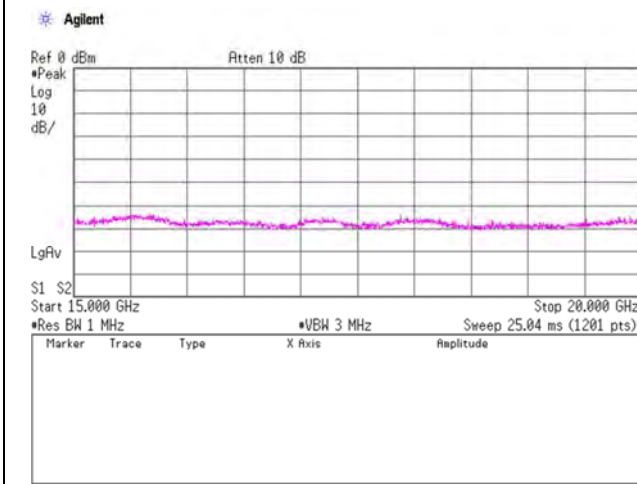
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

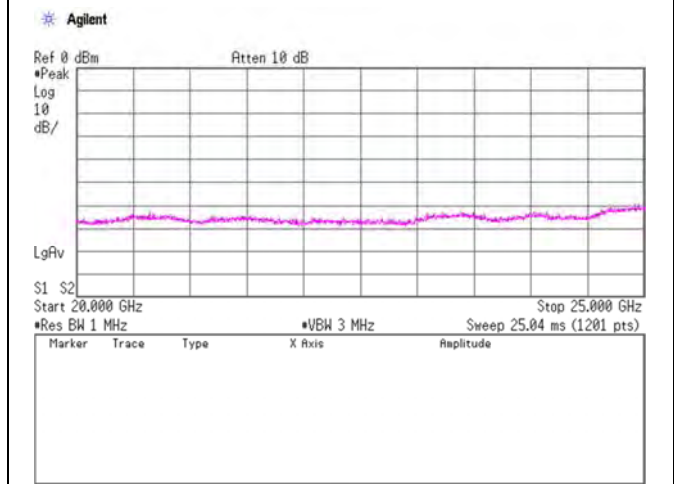
11n-HT20

Tx, 5260MHz

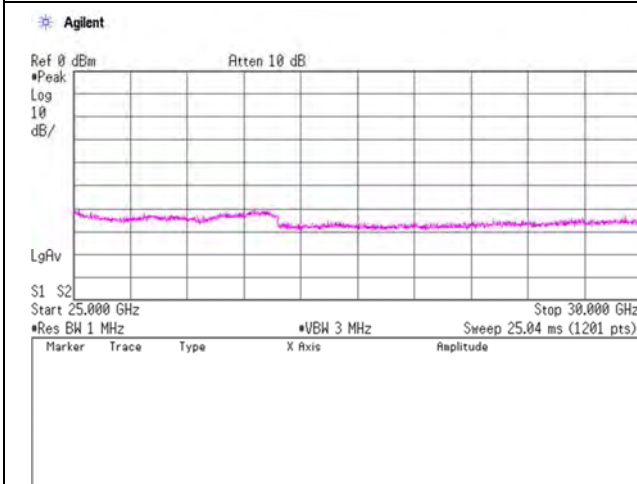
**15GHz - 20GHz**



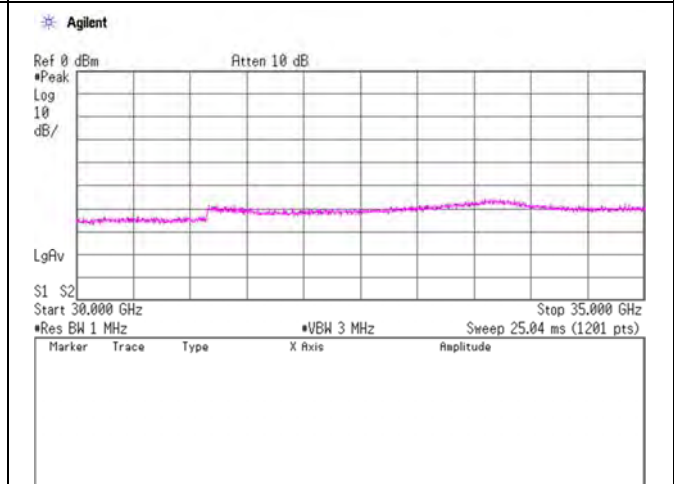
**20GHz - 25GHz**



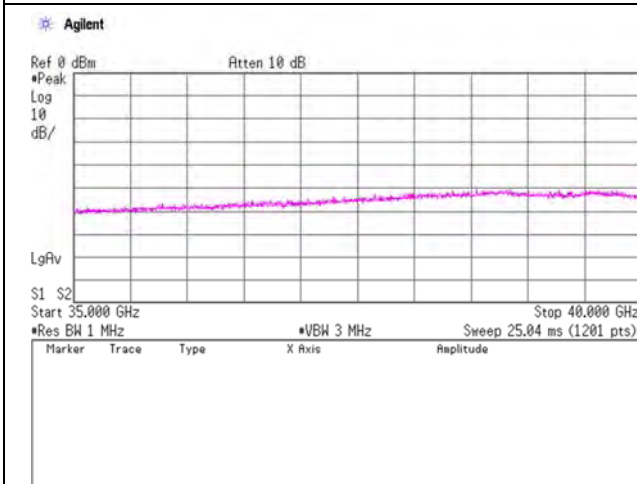
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



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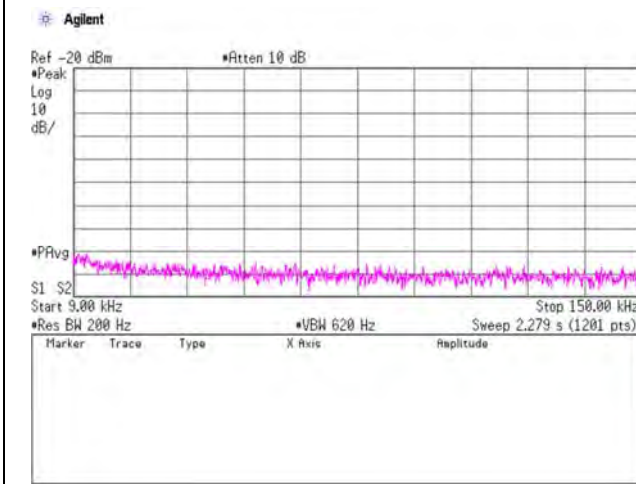


**Spurious emission (Conducted)**

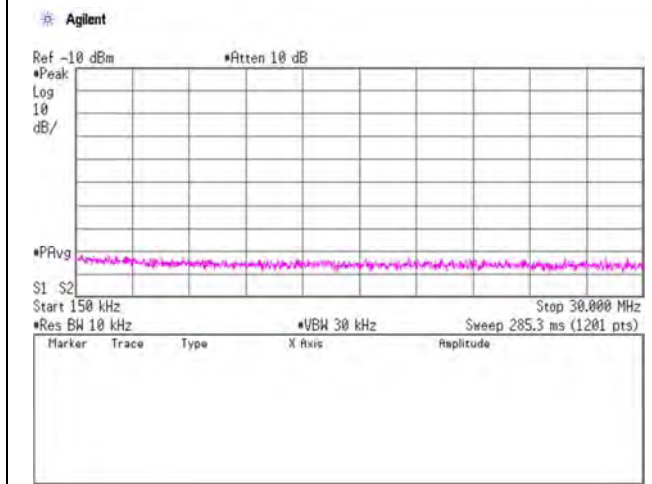
11n-HT20

Tx, 5280MHz

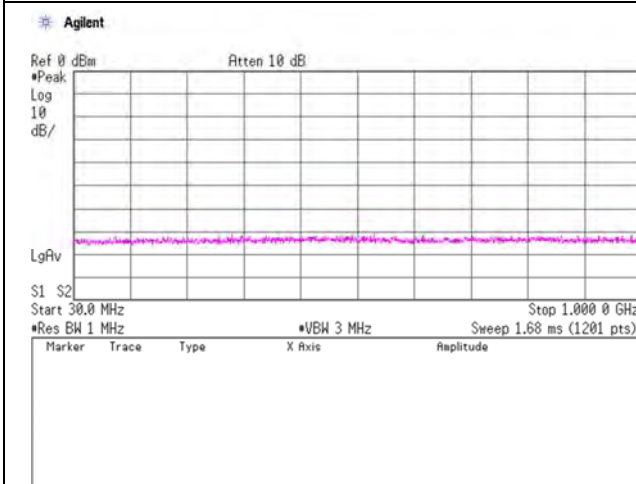
**9kHz - 150kHz**



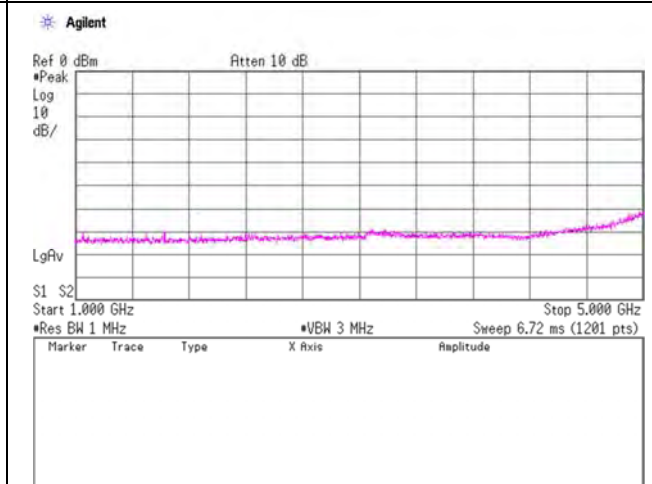
**150kHz - 30MHz**



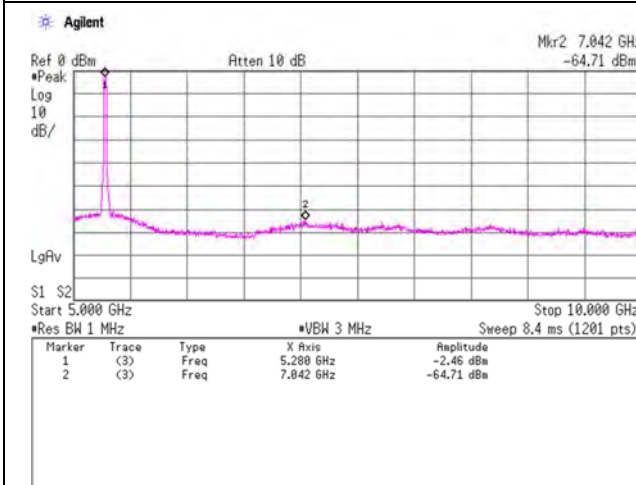
**30MHz - 1GHz**



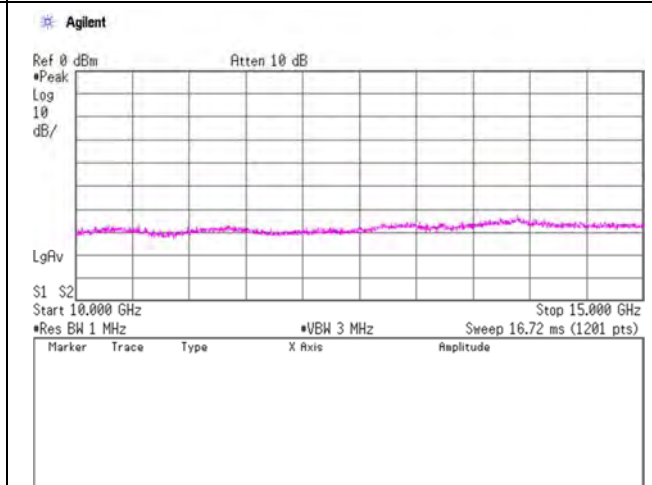
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



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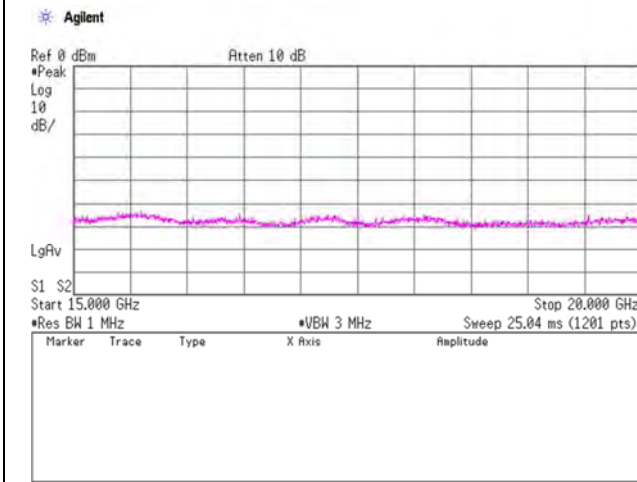
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

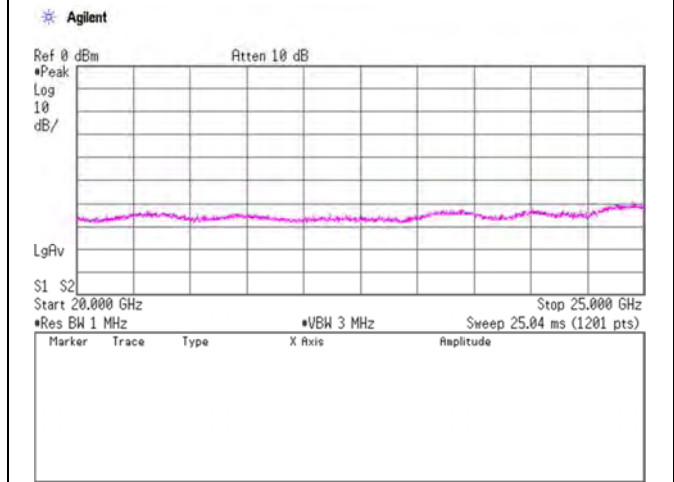
11n-HT20

Tx, 5280MHz

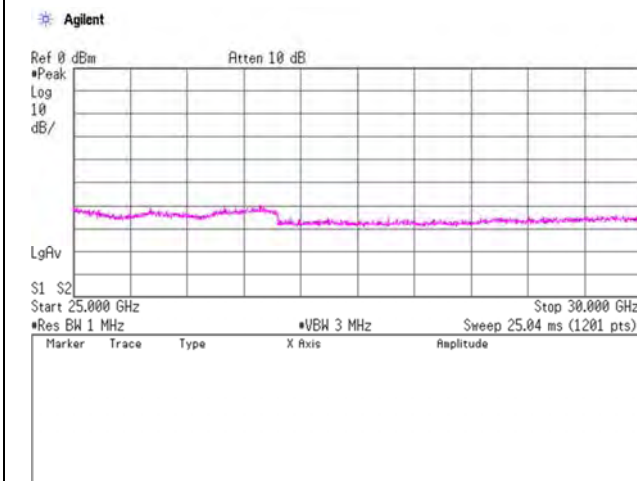
**15GHz - 20GHz**



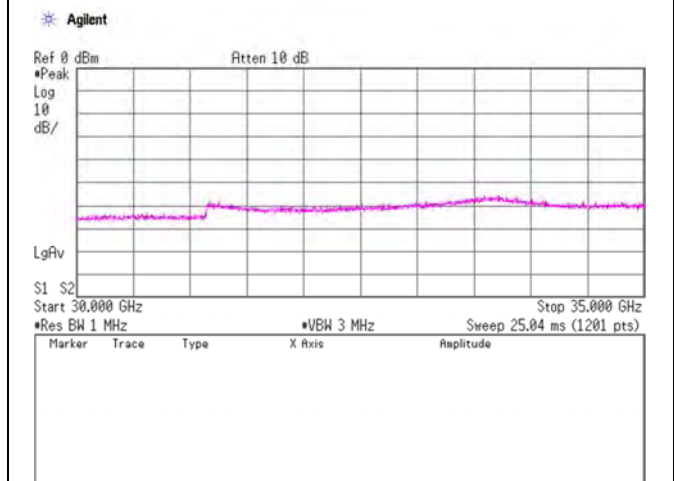
**20GHz - 25GHz**



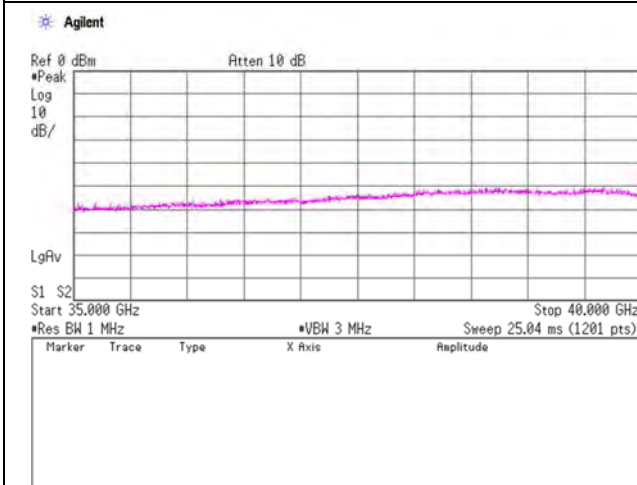
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



**UL Japan, Inc.**  
**Shonan EMC Lab.**

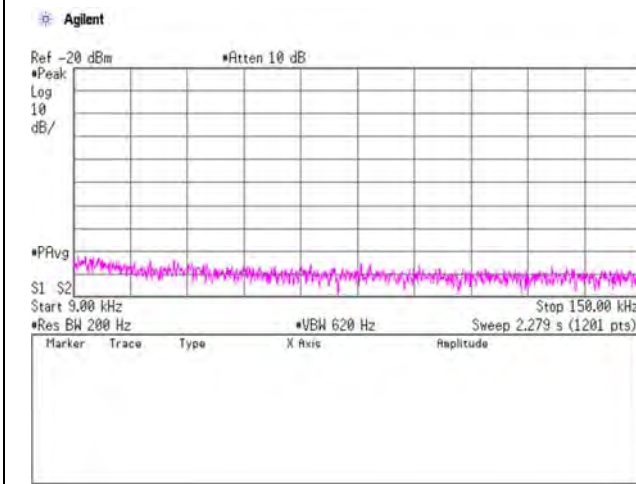
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

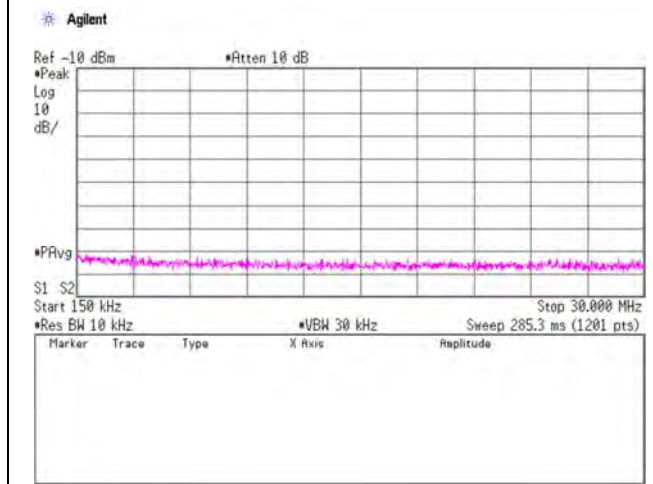
11n-HT20

Tx, 5320MHz

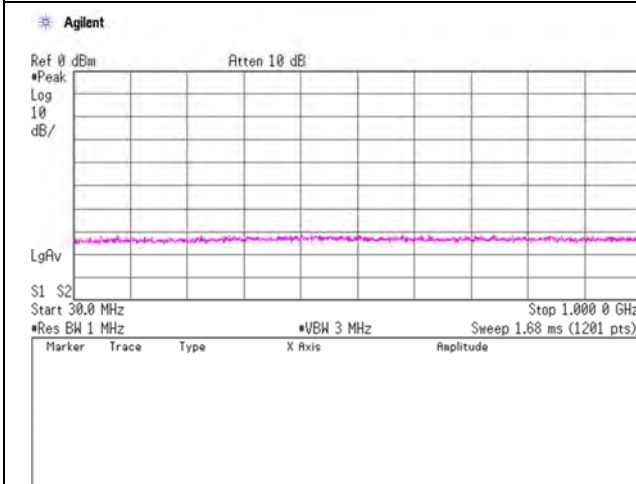
**9kHz - 150kHz**



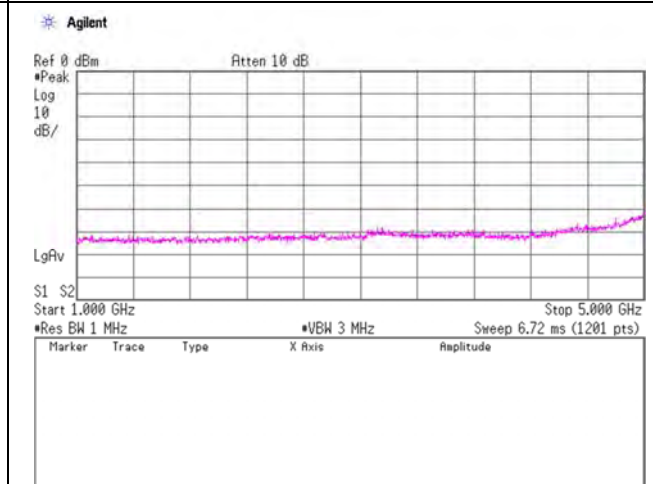
**150kHz - 30MHz**



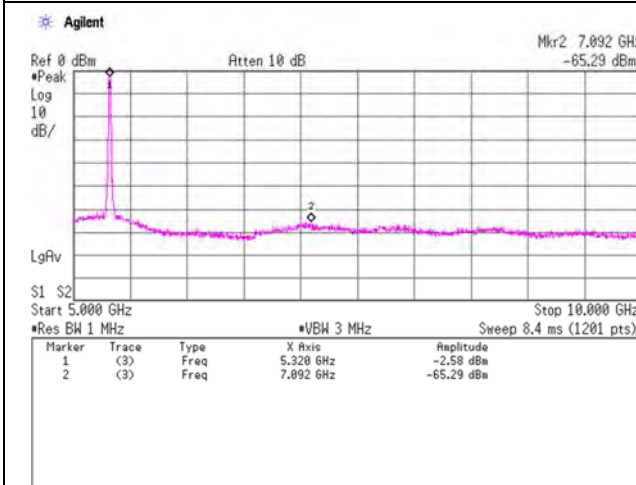
**30MHz - 1GHz**



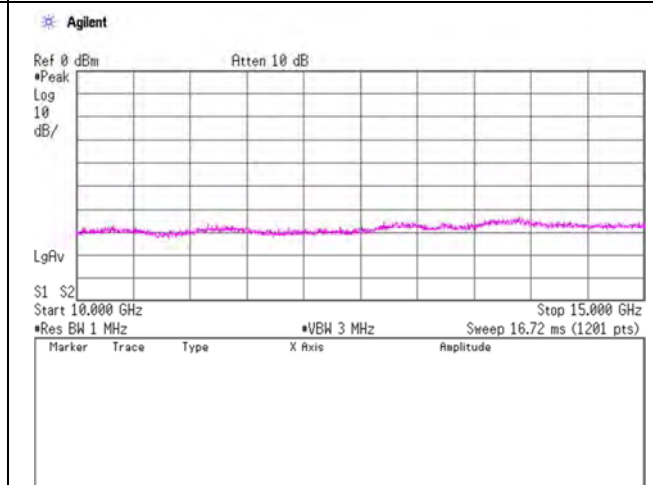
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



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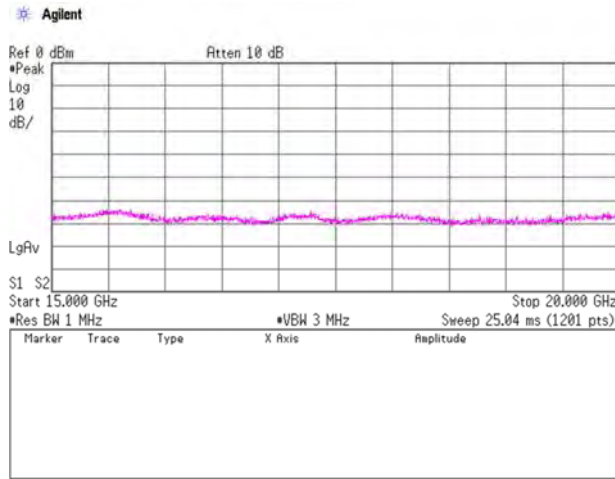
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

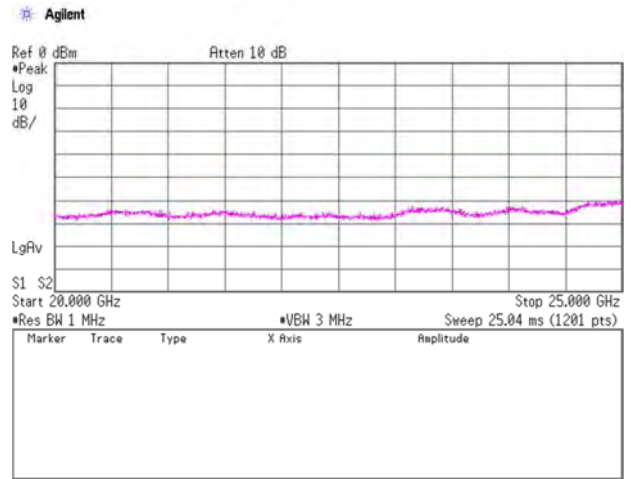
11n-HT20

Tx, 5320MHz

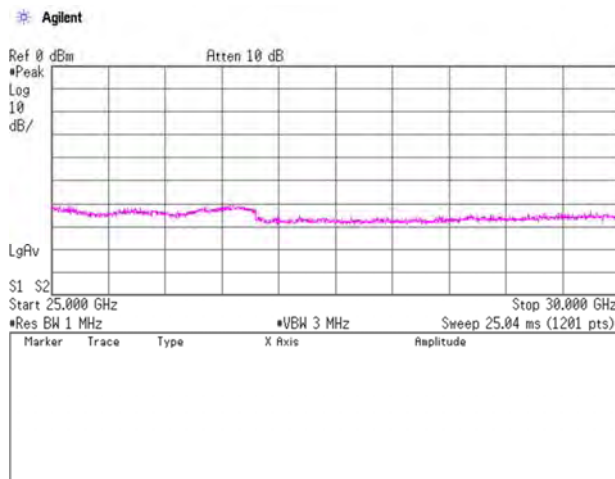
**15GHz - 20GHz**



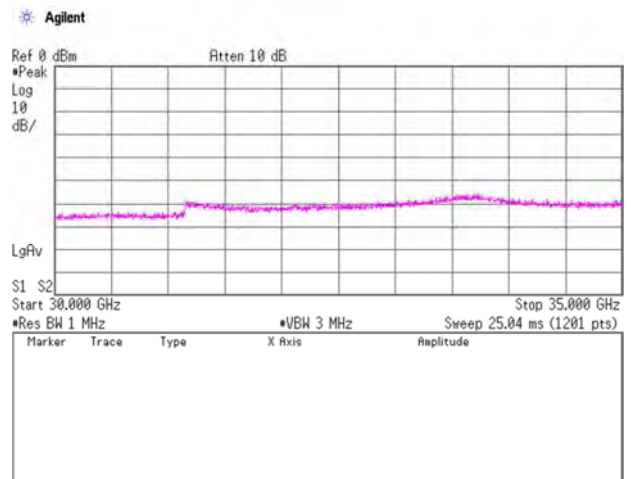
**20GHz - 25GHz**



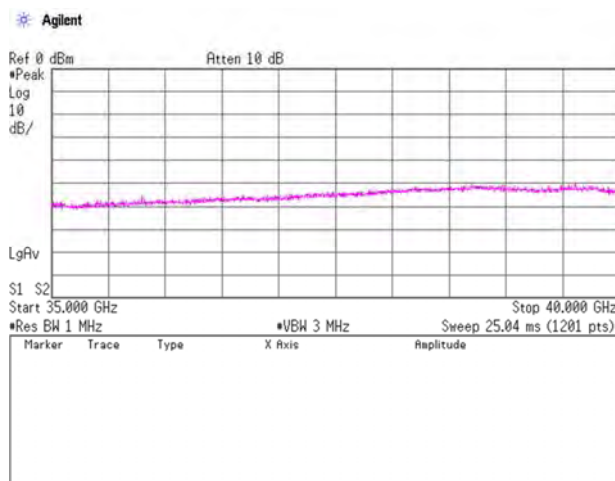
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



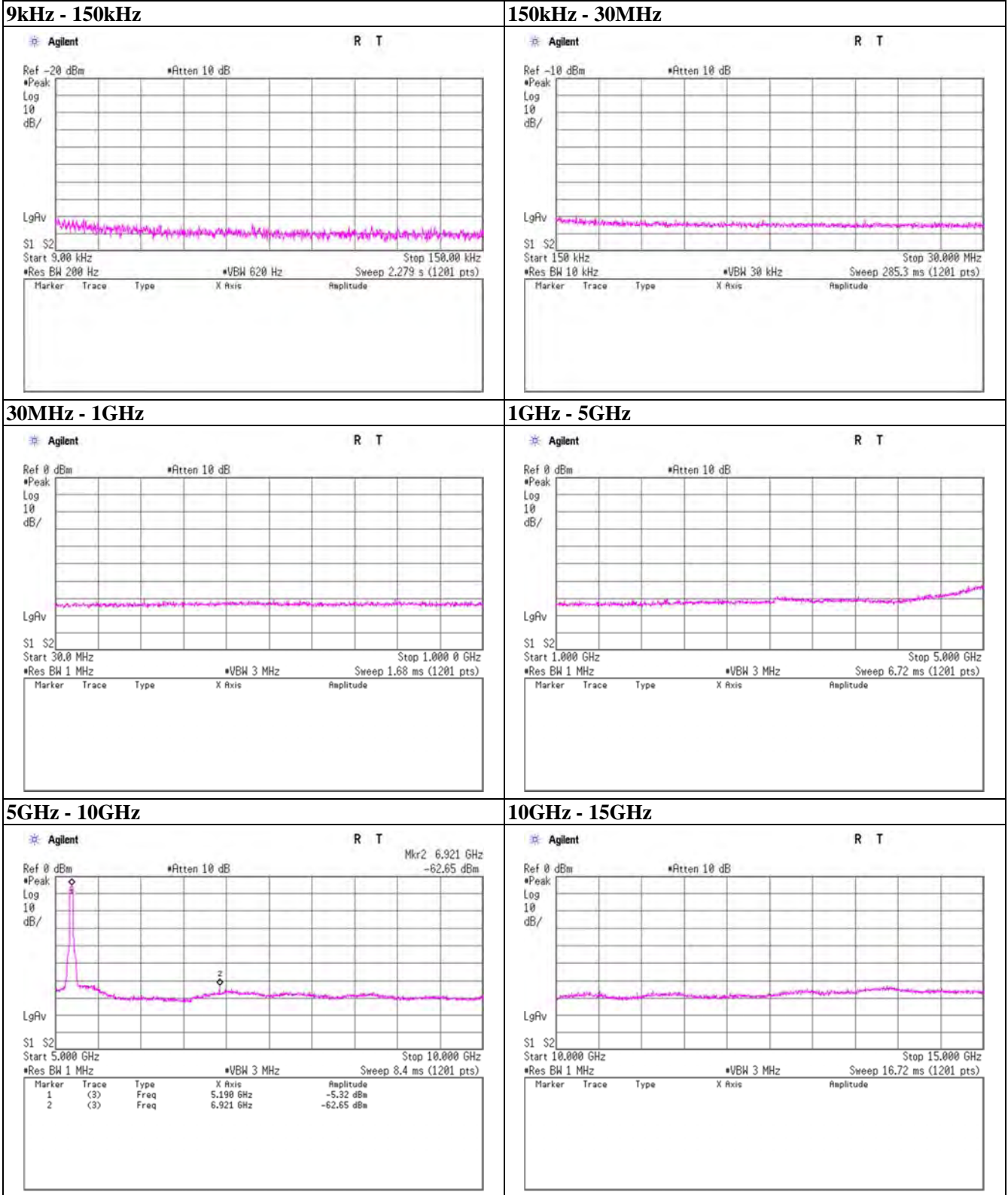
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Shonan EMC Lab.

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Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

11n-HT40

Tx, 5190MHz



UL Japan, Inc.  
 Shonan EMC Lab.

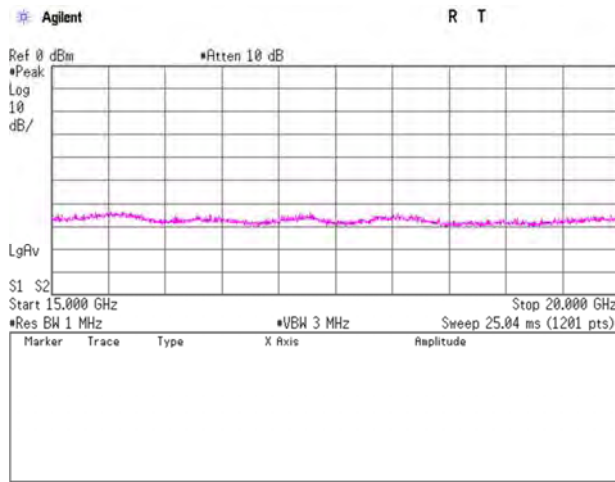
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
 Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

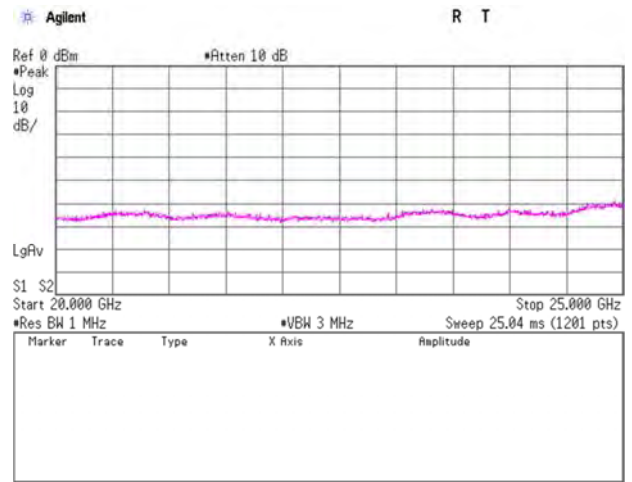
11n-HT40

Tx, 5190MHz

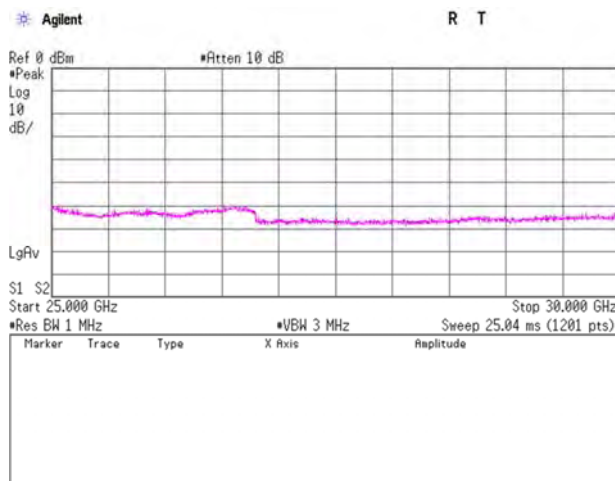
**15GHz - 20GHz**



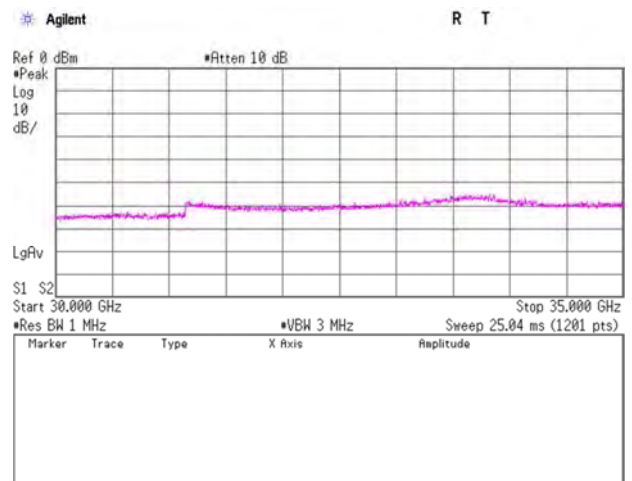
**20GHz - 25GHz**



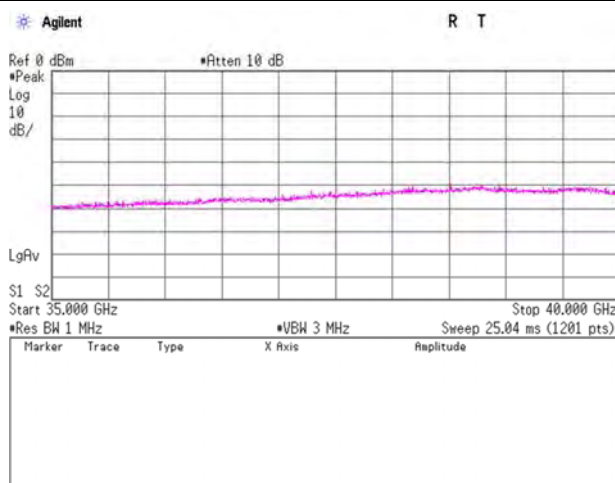
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



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Shonan EMC Lab.

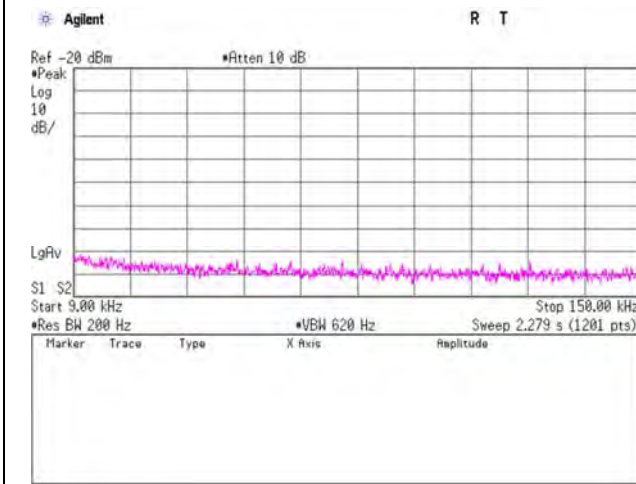
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

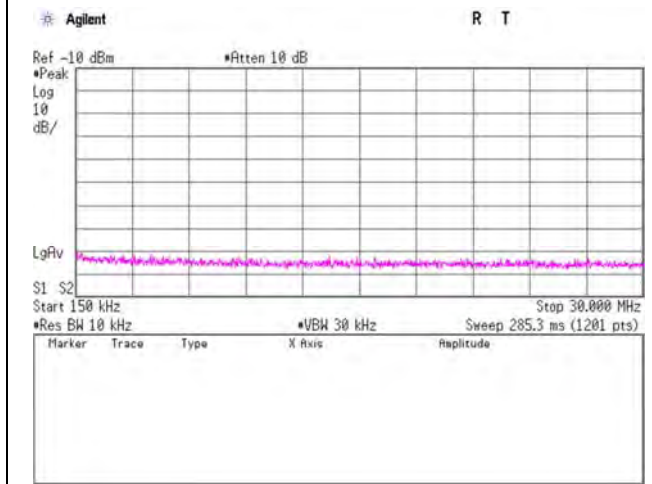
11n-HT40

Tx, 5230MHz

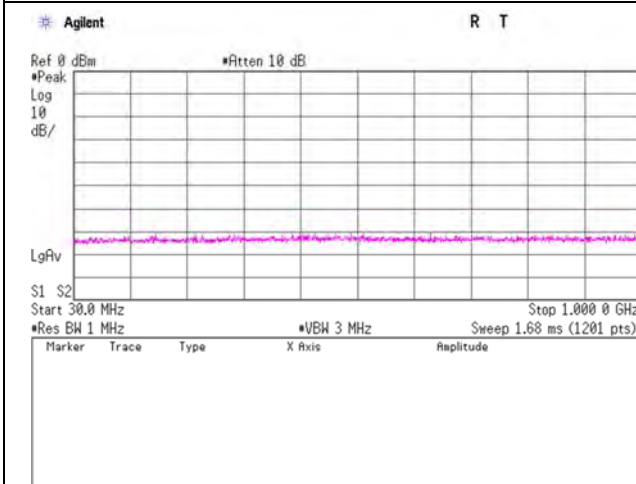
**9kHz - 150kHz**



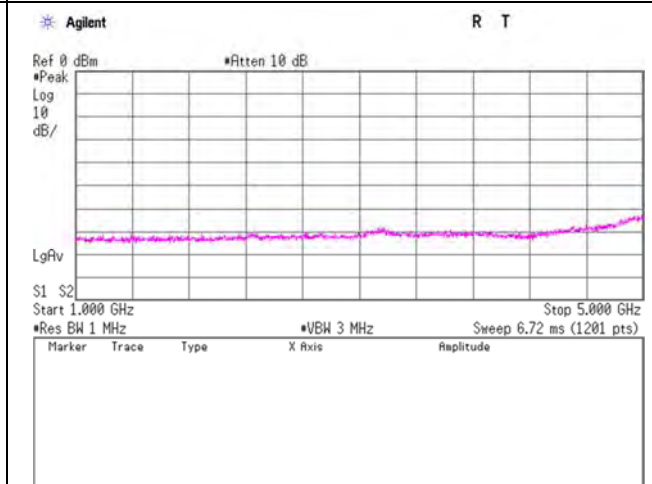
**150kHz - 30MHz**



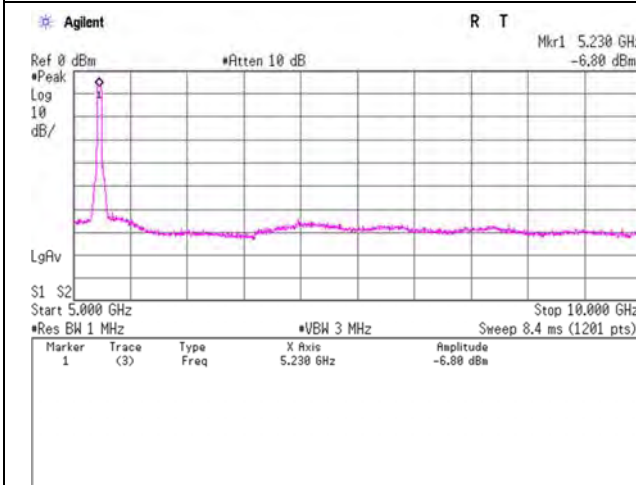
**30MHz - 1GHz**



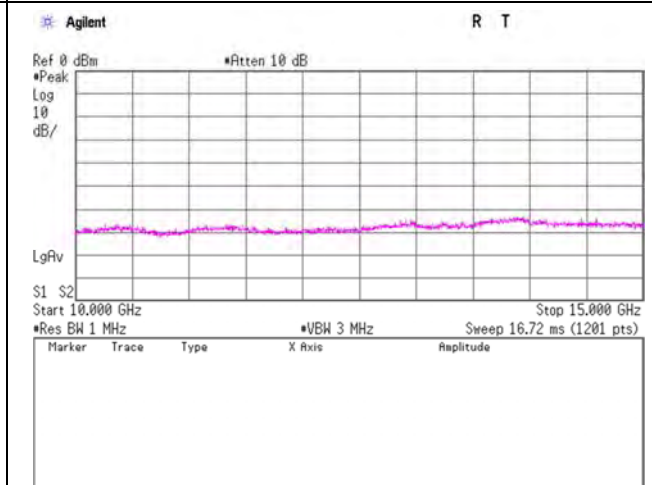
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



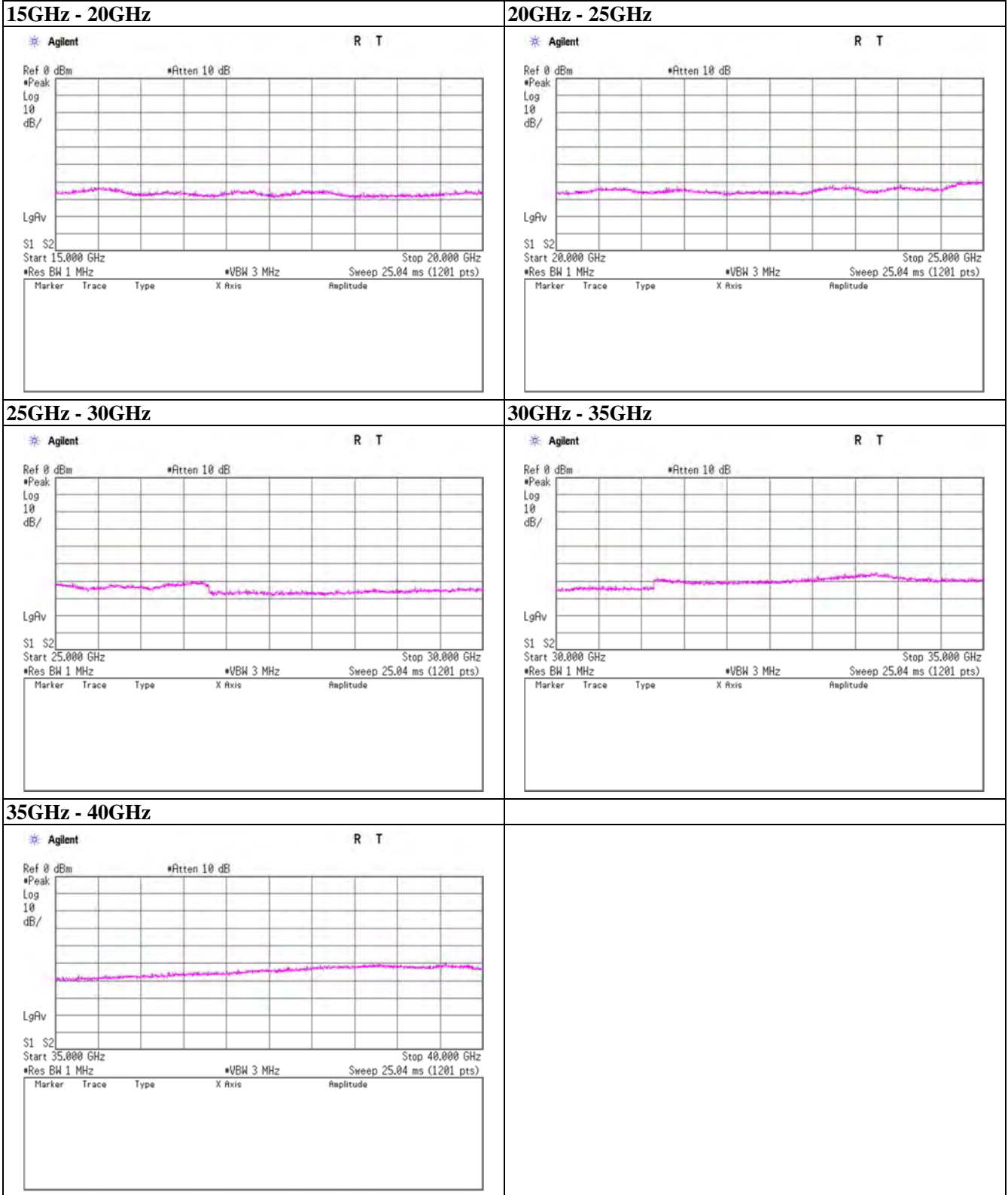
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**Spurious emission (Conducted)**

11n-HT40

Tx, 5230MHz



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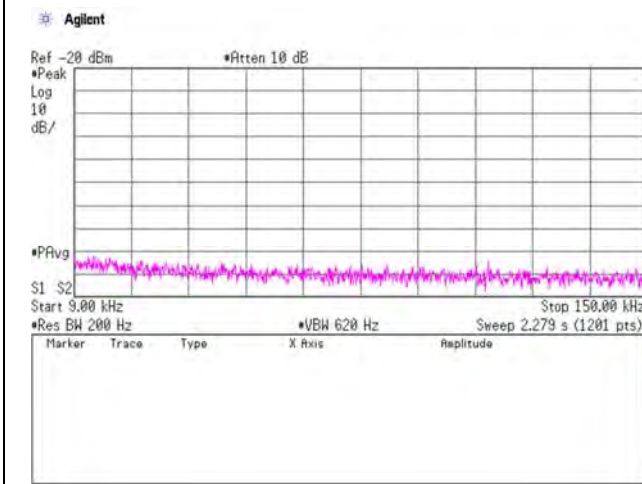


**Spurious emission (Conducted)**

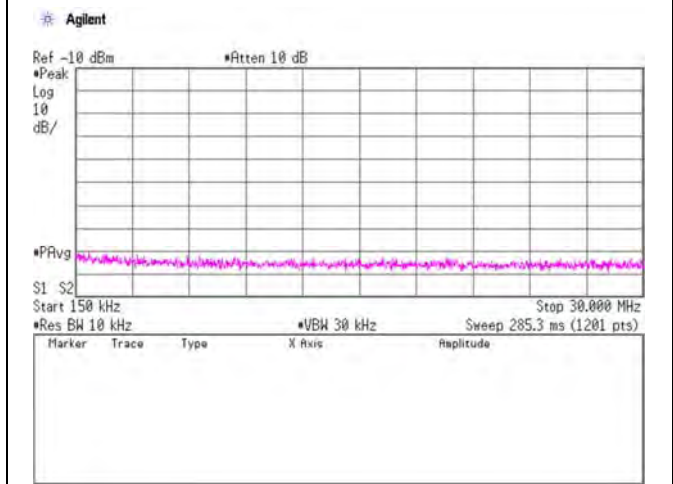
11n-HT40

Tx, 5270MHz

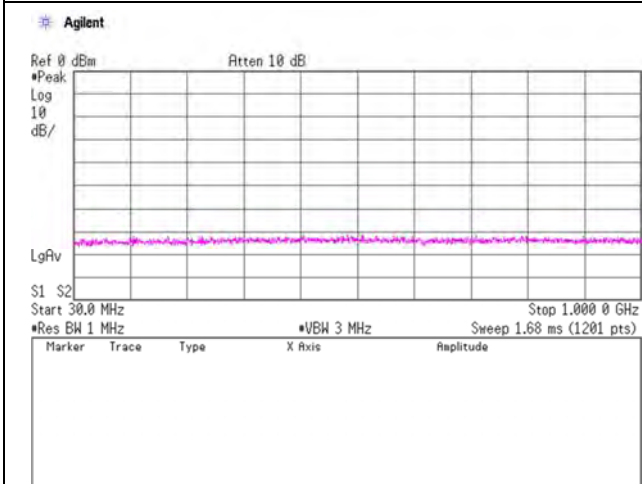
**9kHz - 150kHz**



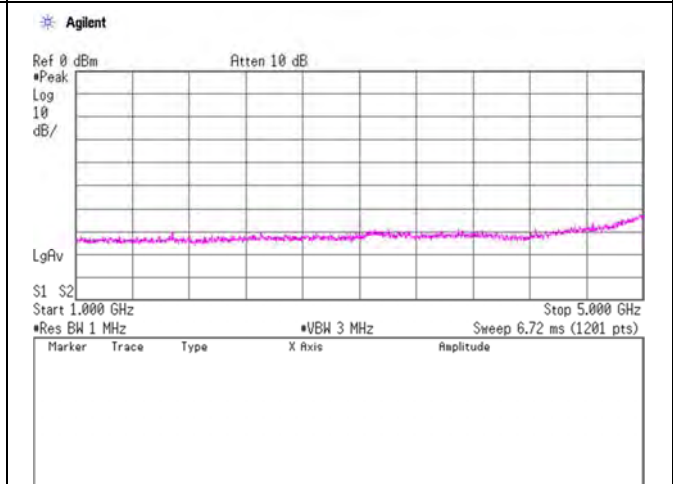
**150kHz - 30MHz**



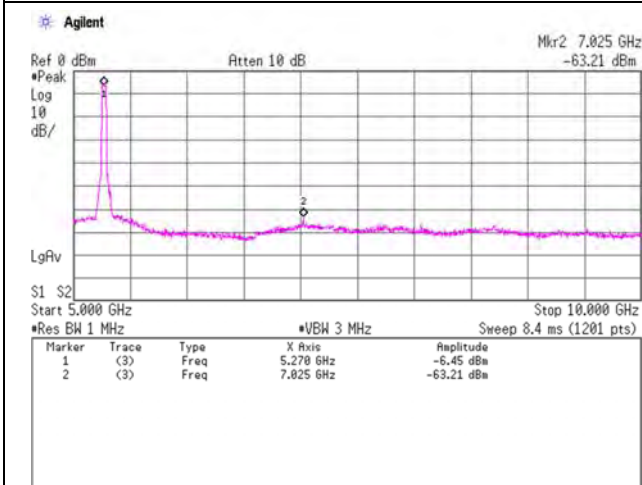
**30MHz - 1GHz**



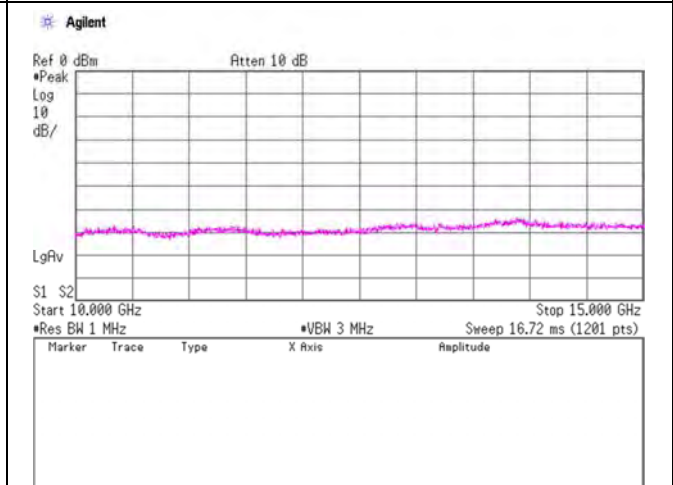
**1GHz - 5GHz**



**5GHz - 10GHz**



**10GHz - 15GHz**



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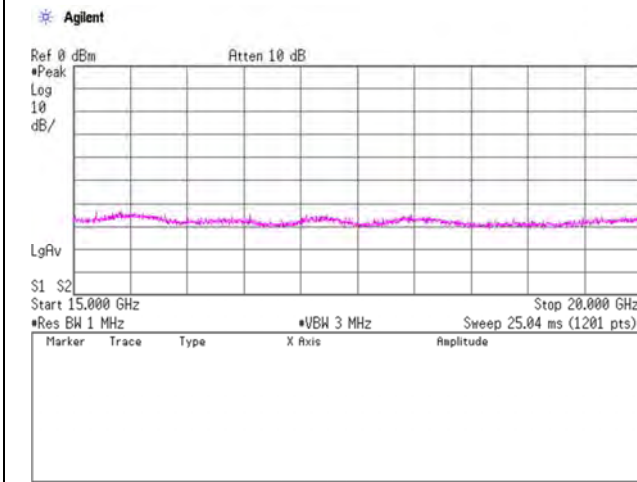
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
 Telephone : +81 463 50 6400  
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**Spurious emission (Conducted)**

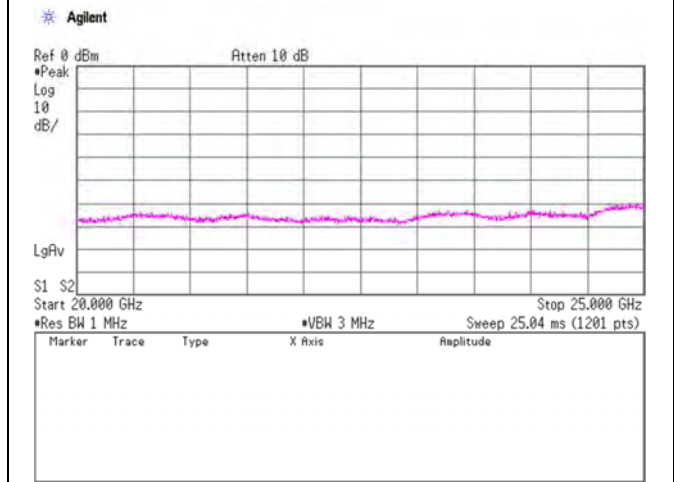
11n-HT40

Tx, 5270MHz

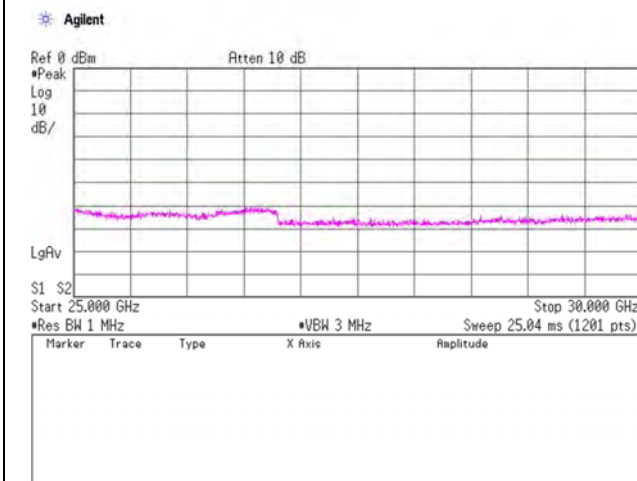
**15GHz - 20GHz**



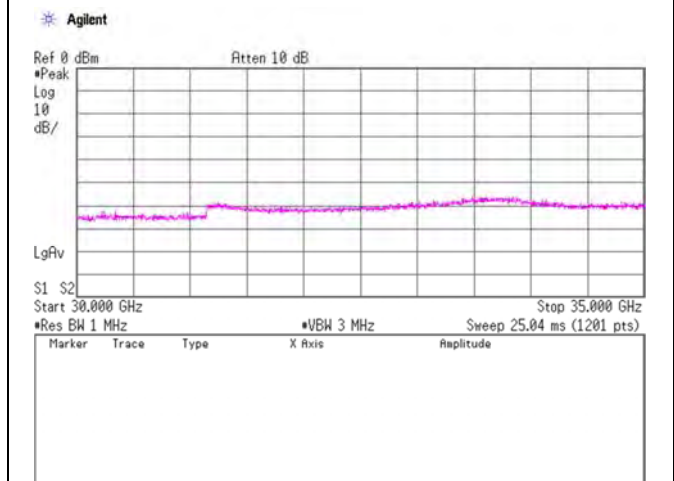
**20GHz - 25GHz**



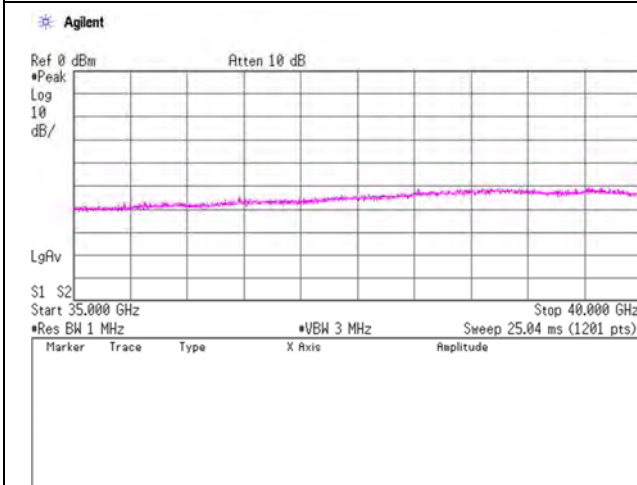
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



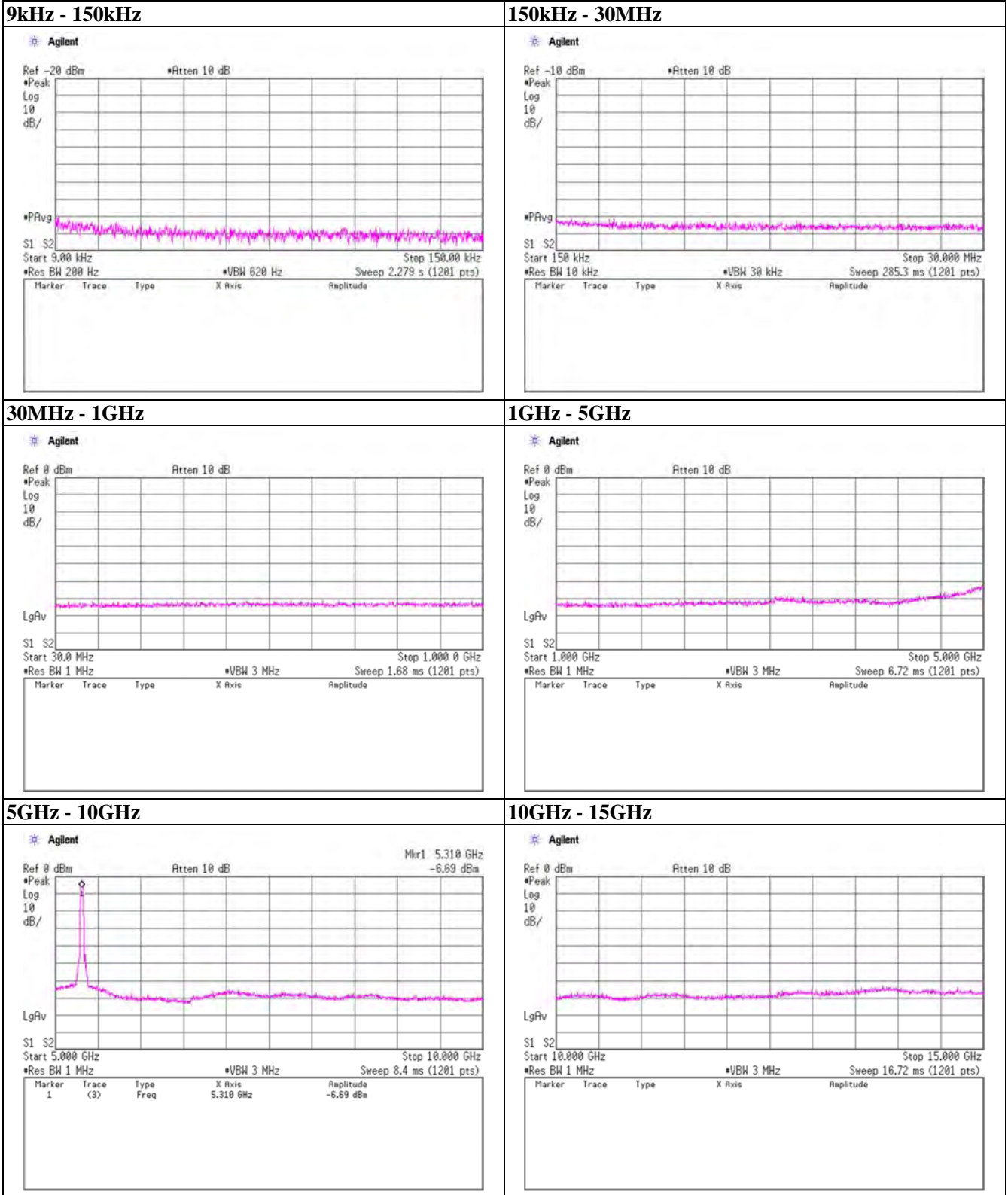
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**Spurious emission (Conducted)**

11n-HT40

Tx, 5310MHz



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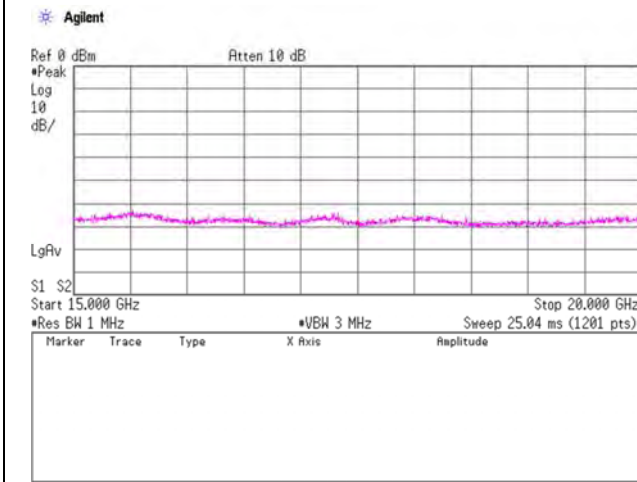
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN  
Telephone : +81 463 50 6400  
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**Spurious emission (Conducted)**

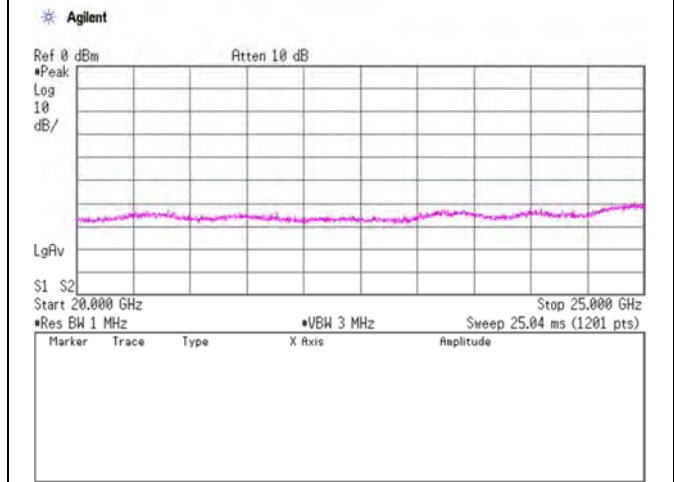
11n-HT20

Tx, 5310MHz

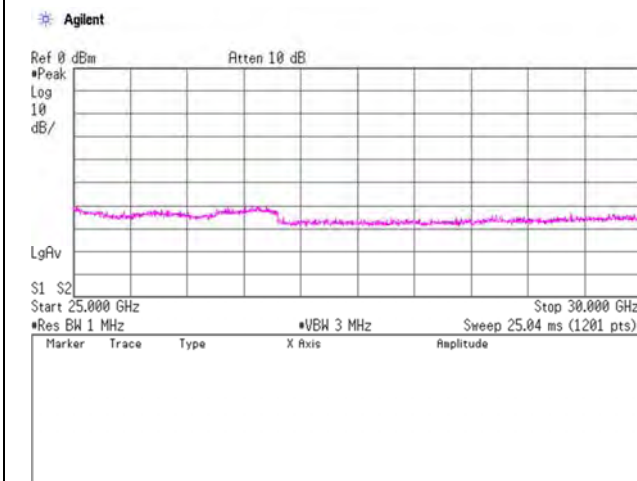
**15GHz - 20GHz**



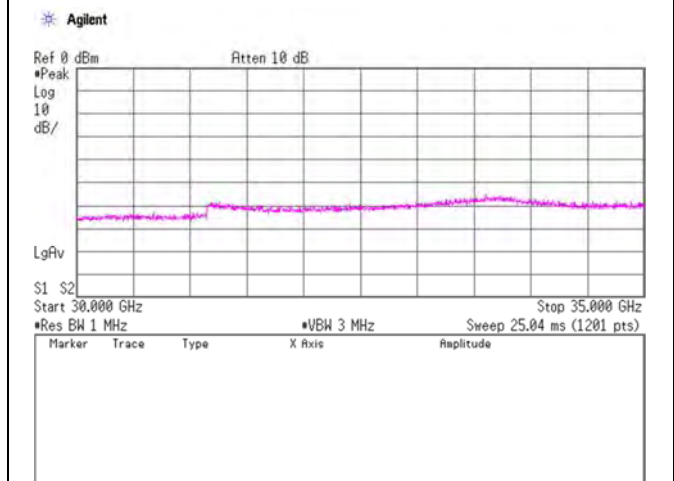
**20GHz - 25GHz**



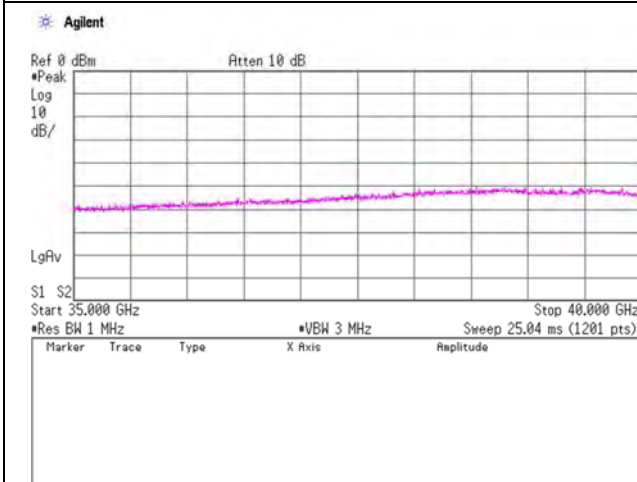
**25GHz - 30GHz**



**30GHz - 35GHz**



**35GHz - 40GHz**



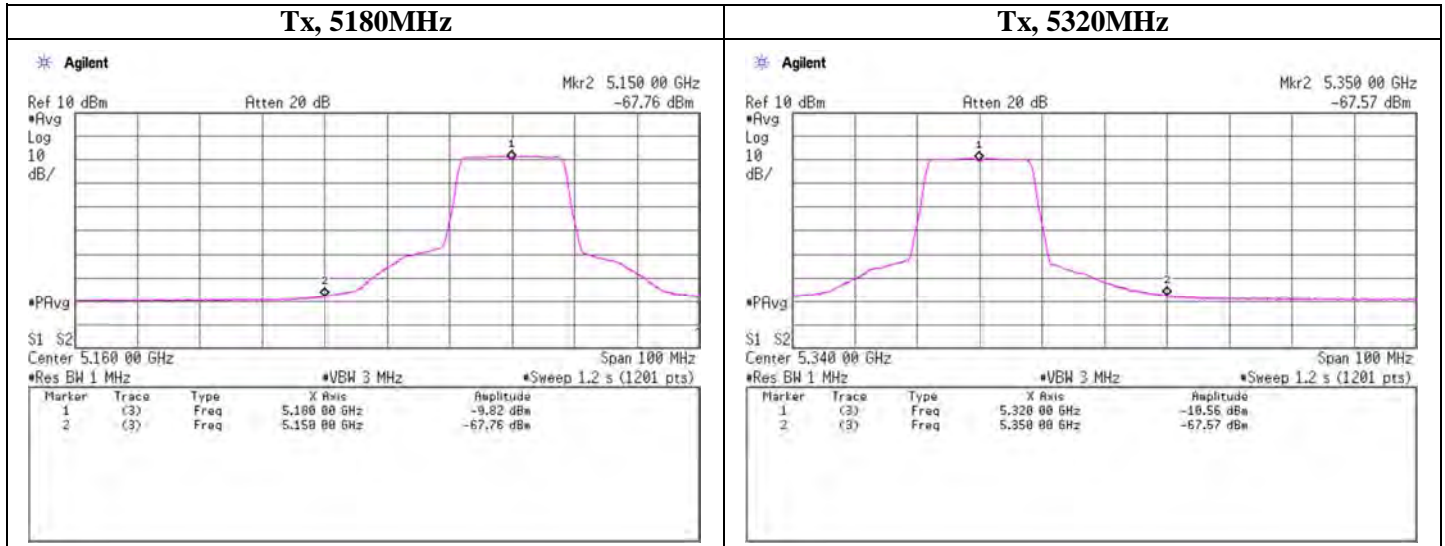
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**Shonan EMC Lab.**

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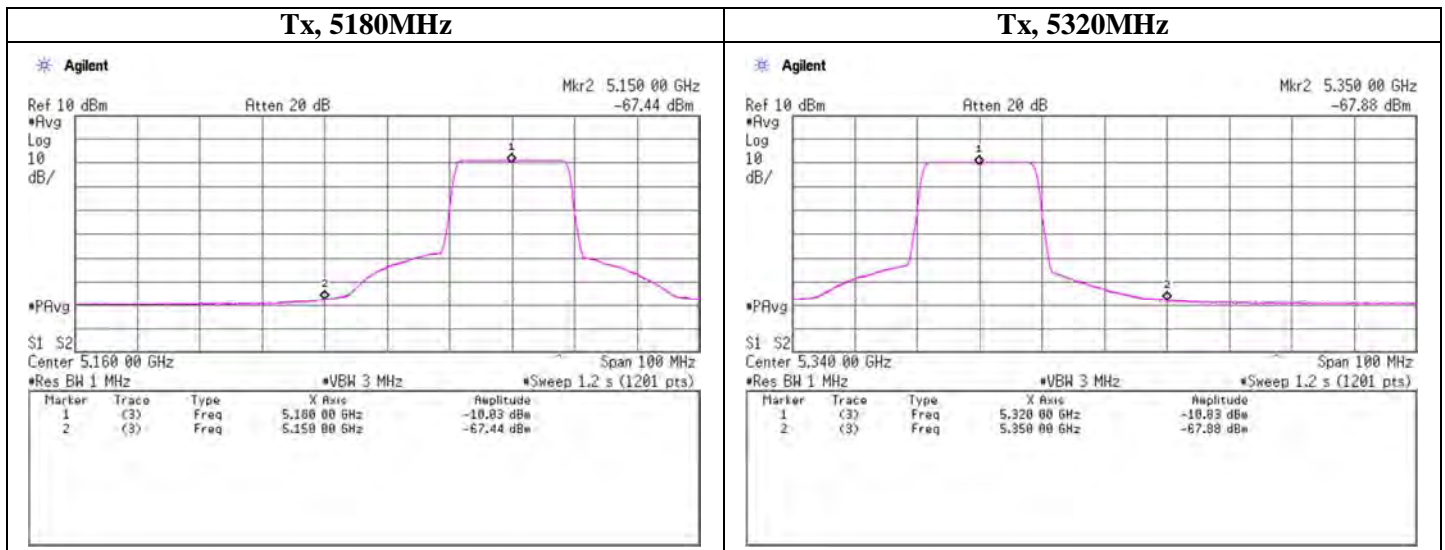
### Spurious emission (Conducted)

Band Edge compliance

11a



11n-HT20

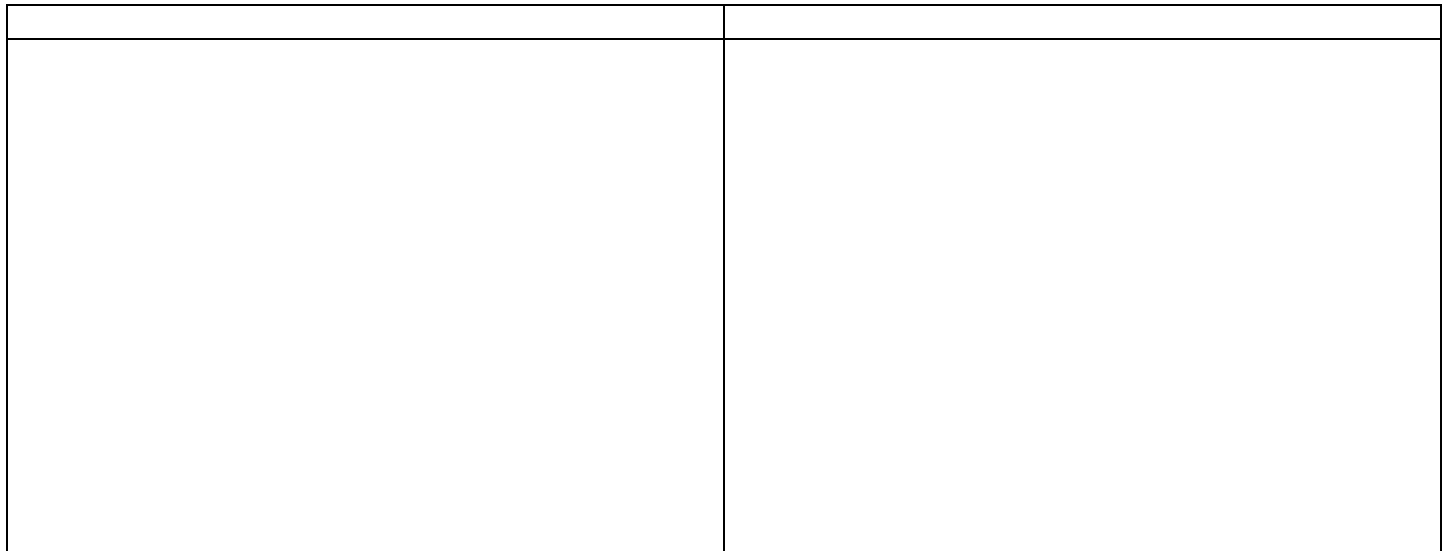
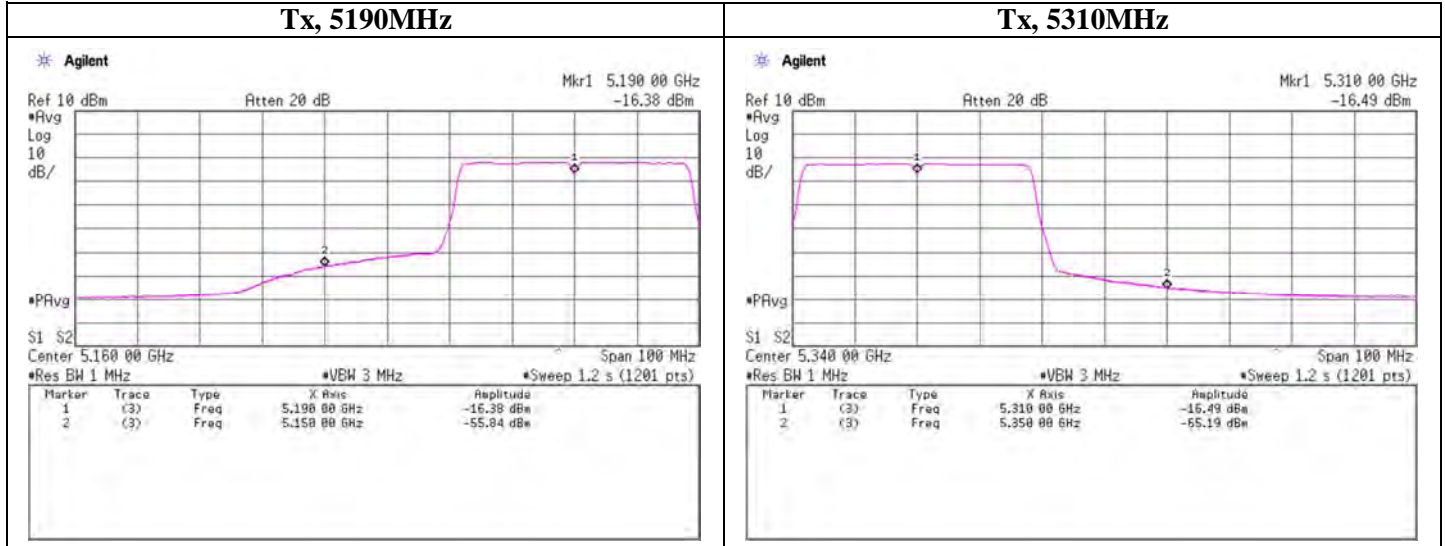


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### Spurious emission (Conducted)

Band Edge compliance  
11n-HT40



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## Peak Power Spectral Density

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.5 Shielded Room  
 Date                         2011/6/15  
 Temperature / Humidity   23deg.C.                   47%RH  
 Engineer                   Akio Hayashi  
 Mode                        11a, Tx, Worst rate: 6Mbps

Ch. Freq. [MHz]	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	5181.42	-12.72	2.20	9.64	-0.88	4.00	4.88
5200	5196.79	-12.67	2.21	9.63	-0.83	4.00	4.83
5240	5246.17	-13.13	2.22	9.62	-1.29	4.00	5.29
5260	5256.88	-13.11	2.23	9.62	-1.26	11.00	12.26
5280	5282.79	-13.38	2.24	9.61	-1.53	11.00	12.53
5320	5315.38	-14.68	2.25	9.60	-2.83	11.00	13.83

Sample Calculation:

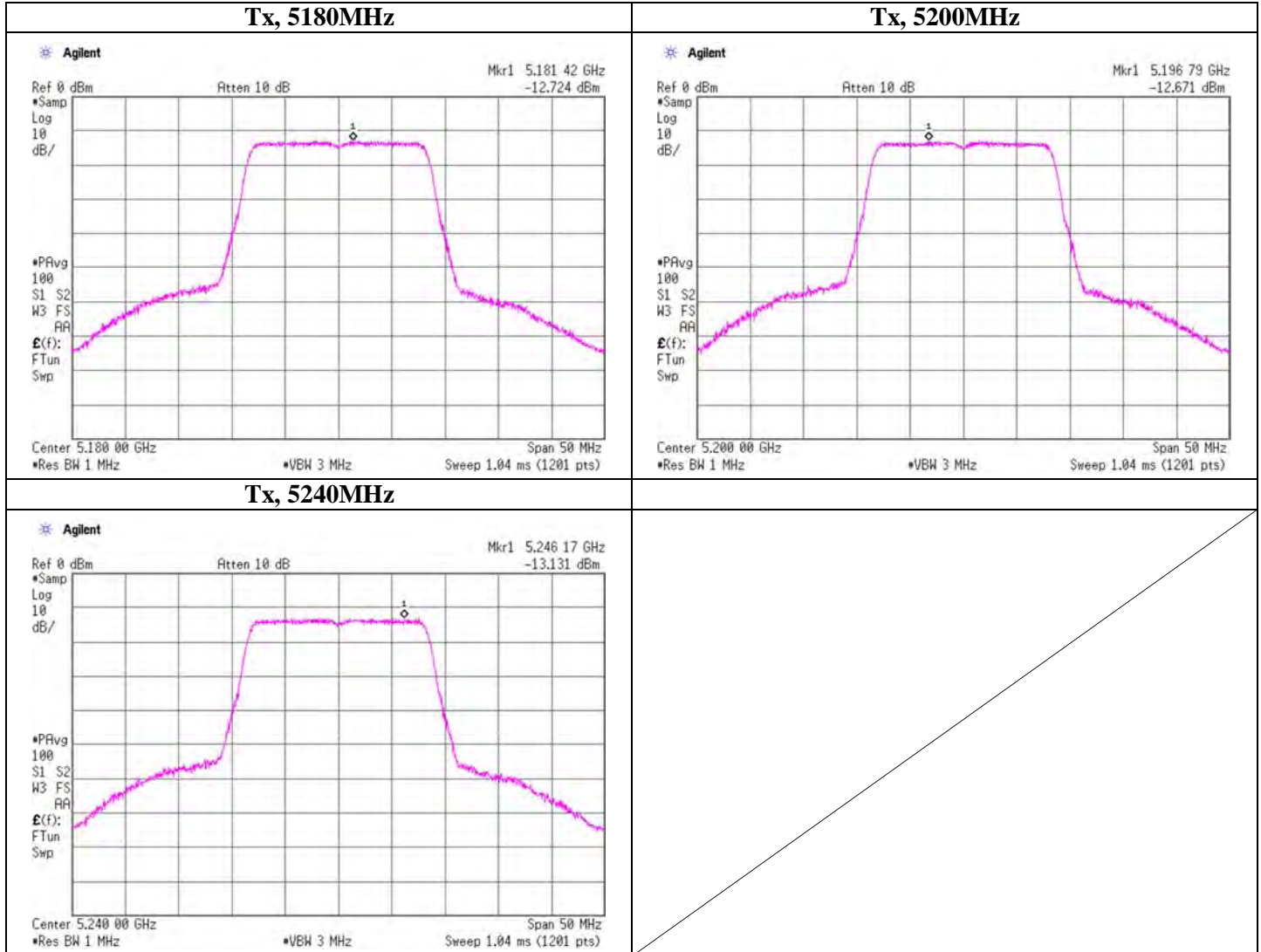
Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

**UL Japan, Inc.**  
**Shonan EMC Lab.**

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 Facsimile   : +81 463 50 6401

### Peak Power Spectral Density

11a



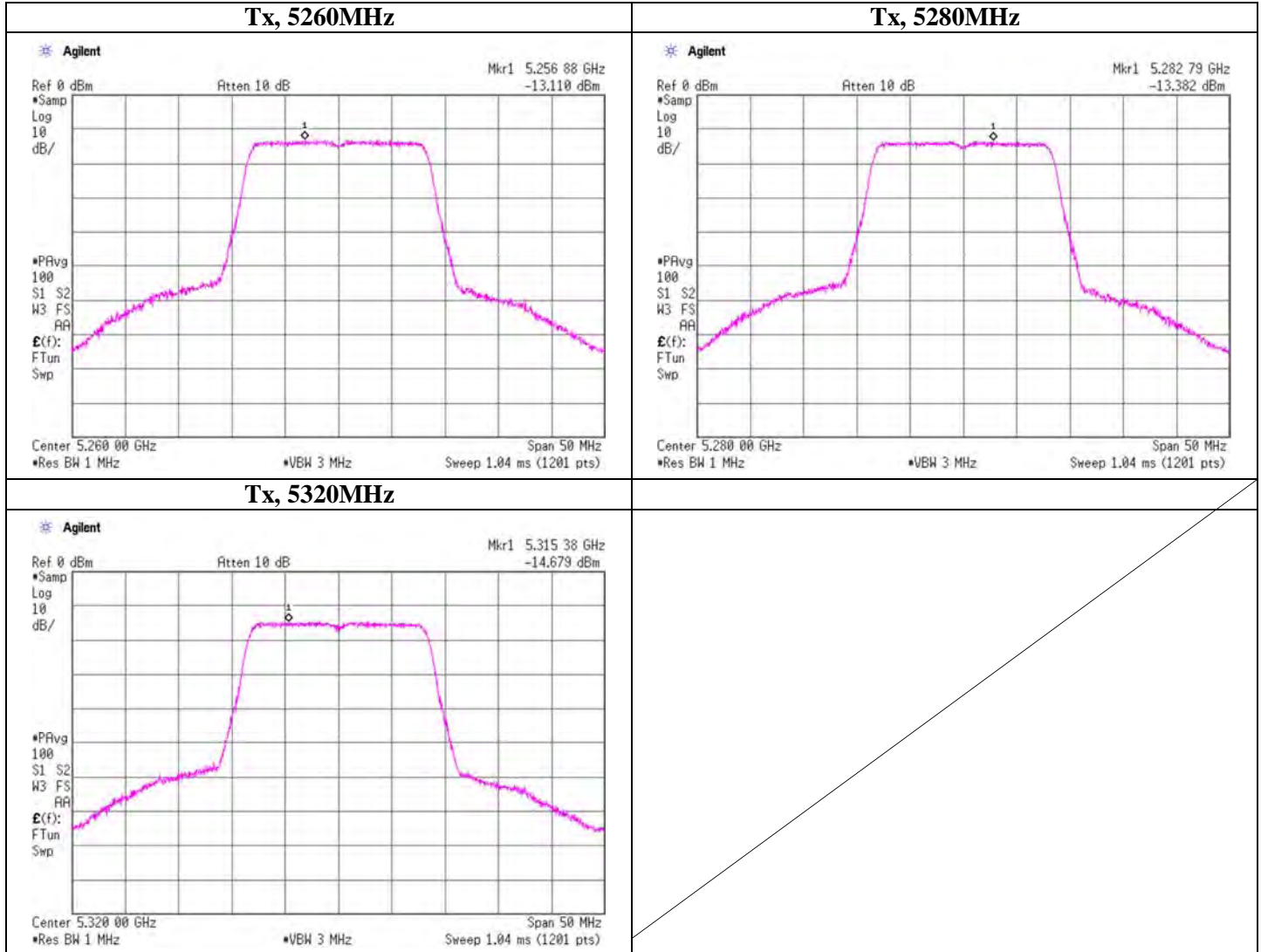
**UL Japan, Inc.**  
**Shonan EMC Lab.**

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### Peak Power Spectral Density

11a



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## Peak Power Spectral Density

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.5 Shielded Room  
 Date                           2011/6/15  
 Temperature / Humidity   23deg.C.                   47%RH  
 Engineer                   Akio Hayashi  
 Mode                         11n (HT20), Tx, Worst rate: MCS2

Ch. Freq. [MHz]	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5180	5181.71	-13.00	2.20	9.64	-1.16	4.00	5.16
5200	5196.46	-13.25	2.21	9.63	-1.41	4.00	5.41
5240	5232.71	-13.31	2.22	9.62	-1.47	4.00	5.47
5260	5266.68	-13.50	2.23	9.62	-1.65	11.00	12.65
5280	5283.92	-13.71	2.24	9.61	-1.86	11.00	12.86
5320	5314.79	-14.57	2.25	9.60	-2.72	11.00	13.72

Sample Calculation:

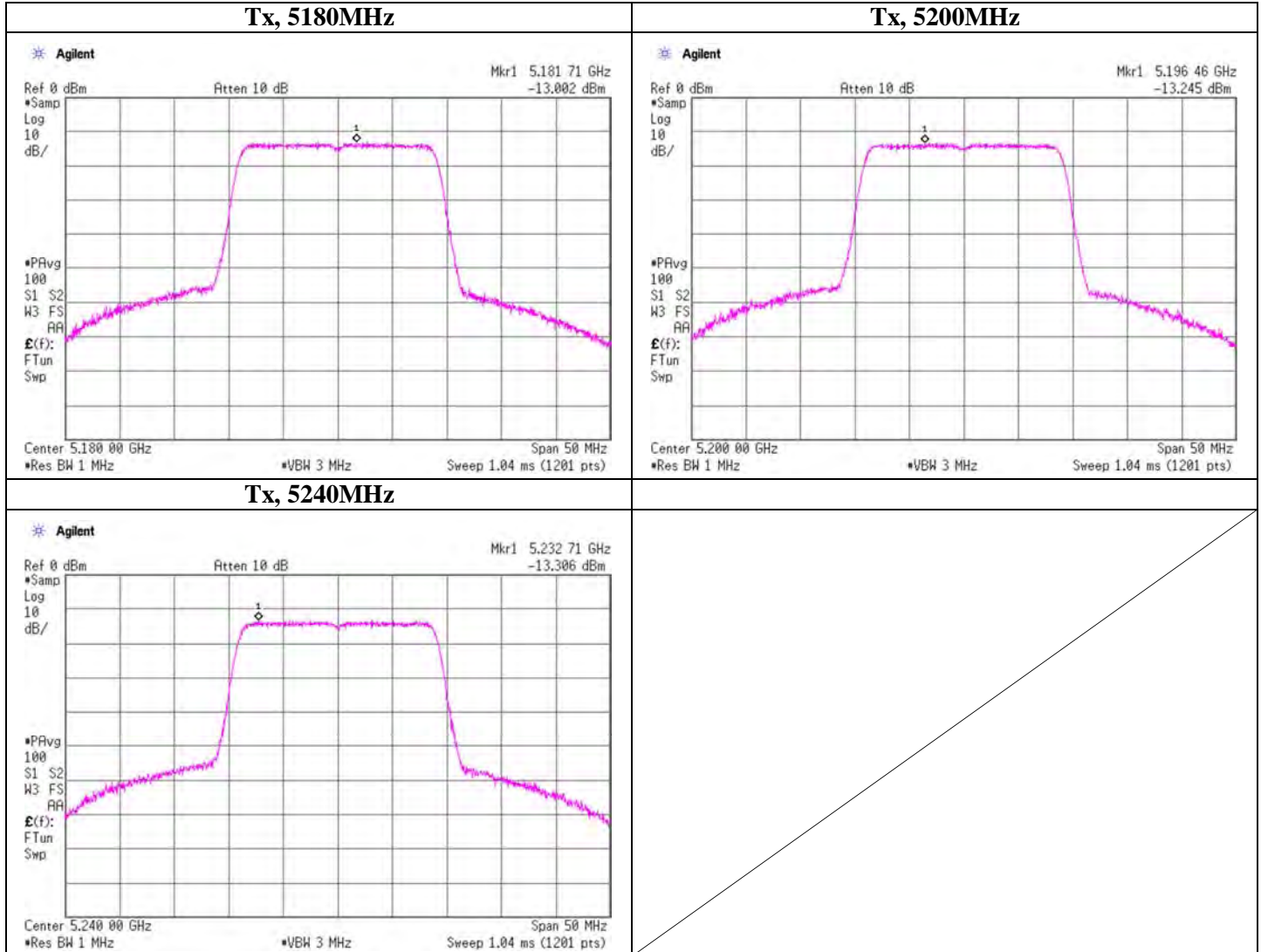
Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

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### Peak Power Spectral Density

11n HT20

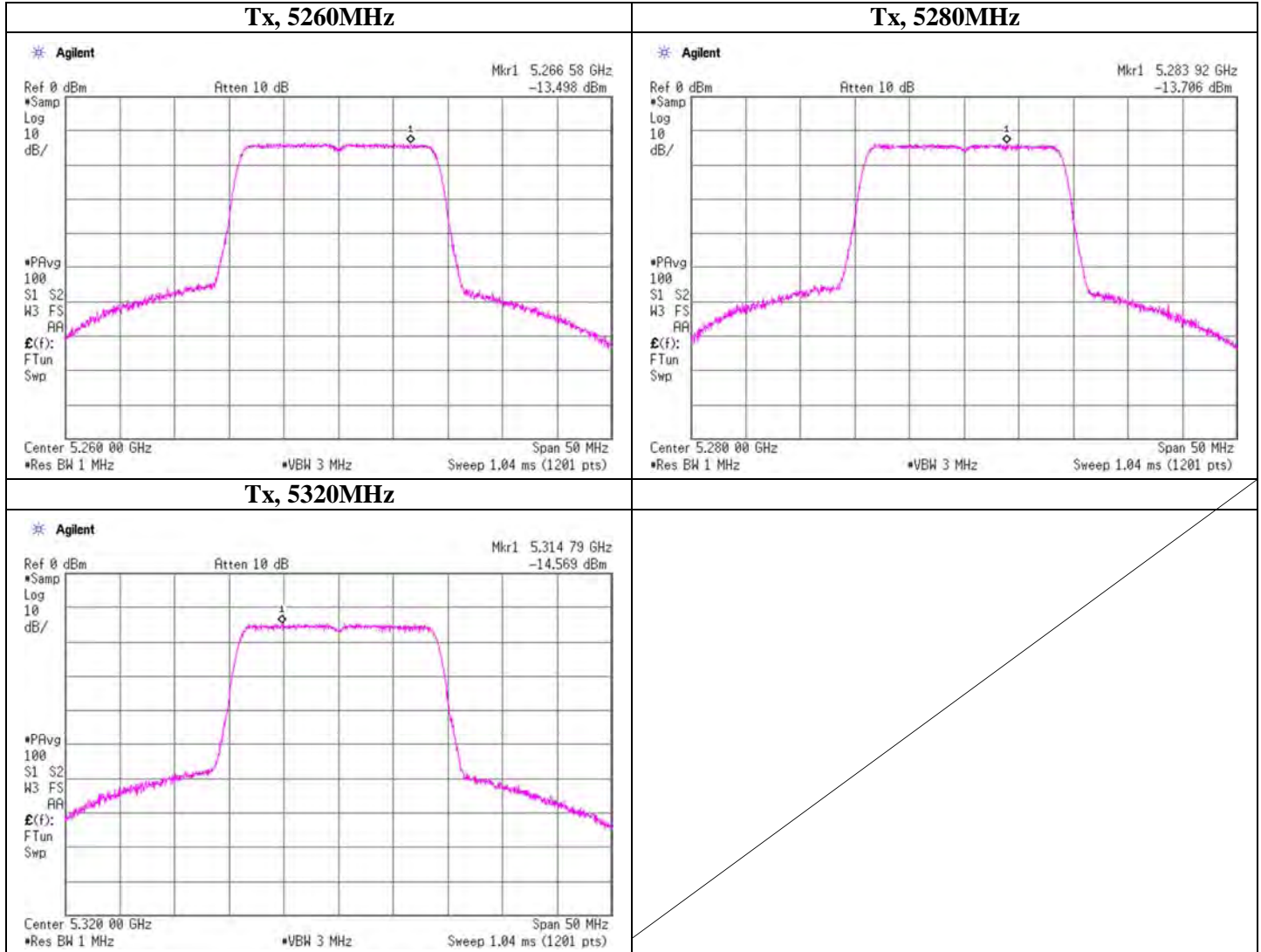


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## Peak Power Spectral Density

11n HT20



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 Facsimile : +81 463 50 6401

## Peak Power Spectral Density

Test place                   UL Japan, Inc. Shonan EMC Lab.                   No.5 Shielded Room  
 Date                           2011/6/15  
 Temperature / Humidity   23deg.C.                   47%RH  
 Engineer                   Akio Hayashi  
 Mode                         11n (HT40), Tx, Worst rate: MCS2

Ch. Freq. [MHz]	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5190	5186.50	-15.94	2.20	9.64	-4.10	4.00	8.10
5230	5228.67	-16.34	2.22	9.62	-4.50	4.00	8.50
5270	5268.33	-16.42	2.23	9.62	-4.57	11.00	15.57
5310	5295.00	-17.27	2.25	9.60	-5.42	11.00	16.42

Sample Calculation:

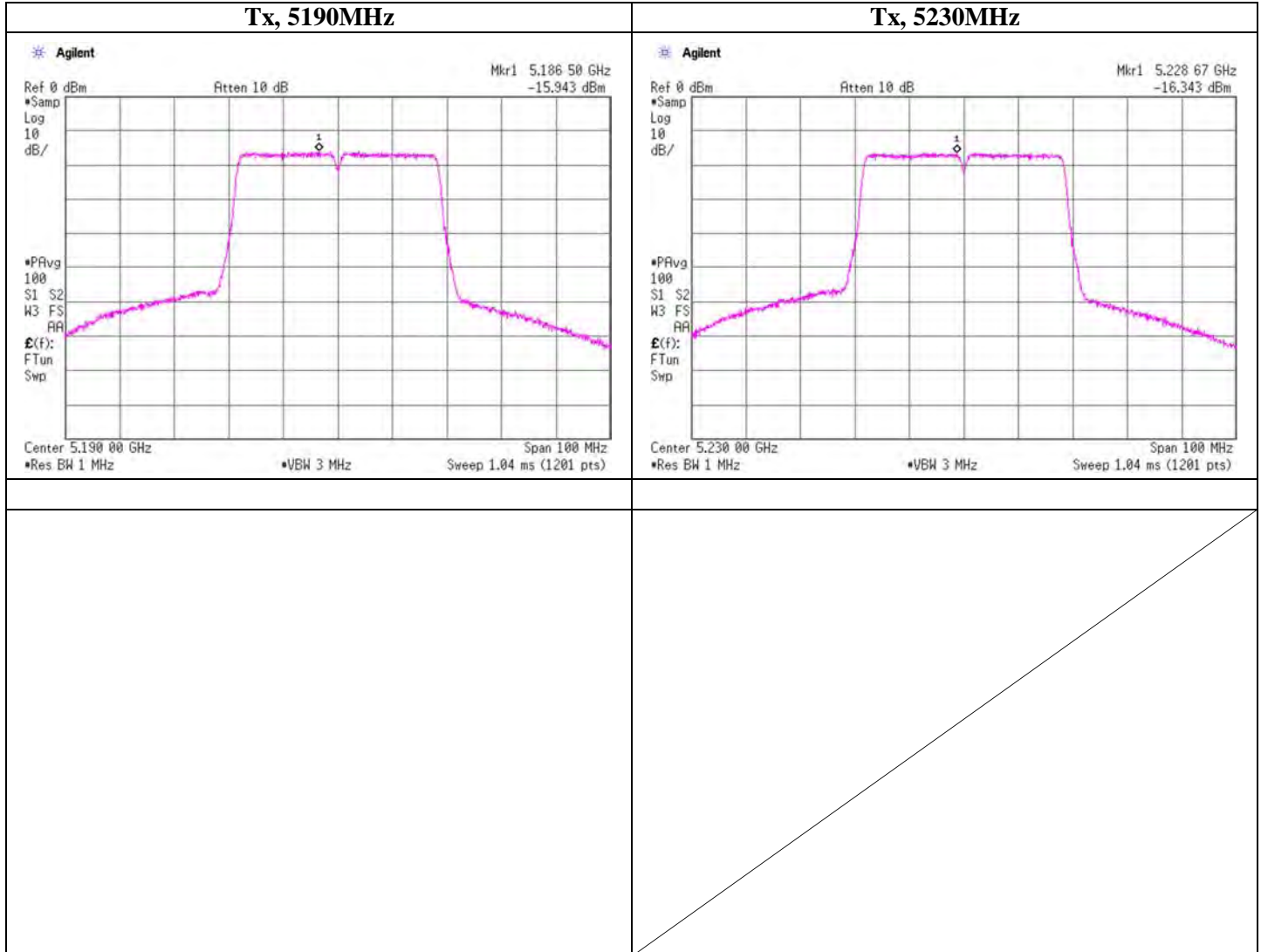
Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

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**Shonan EMC Lab.**

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### Peak Power Spectral Density

11n HT40

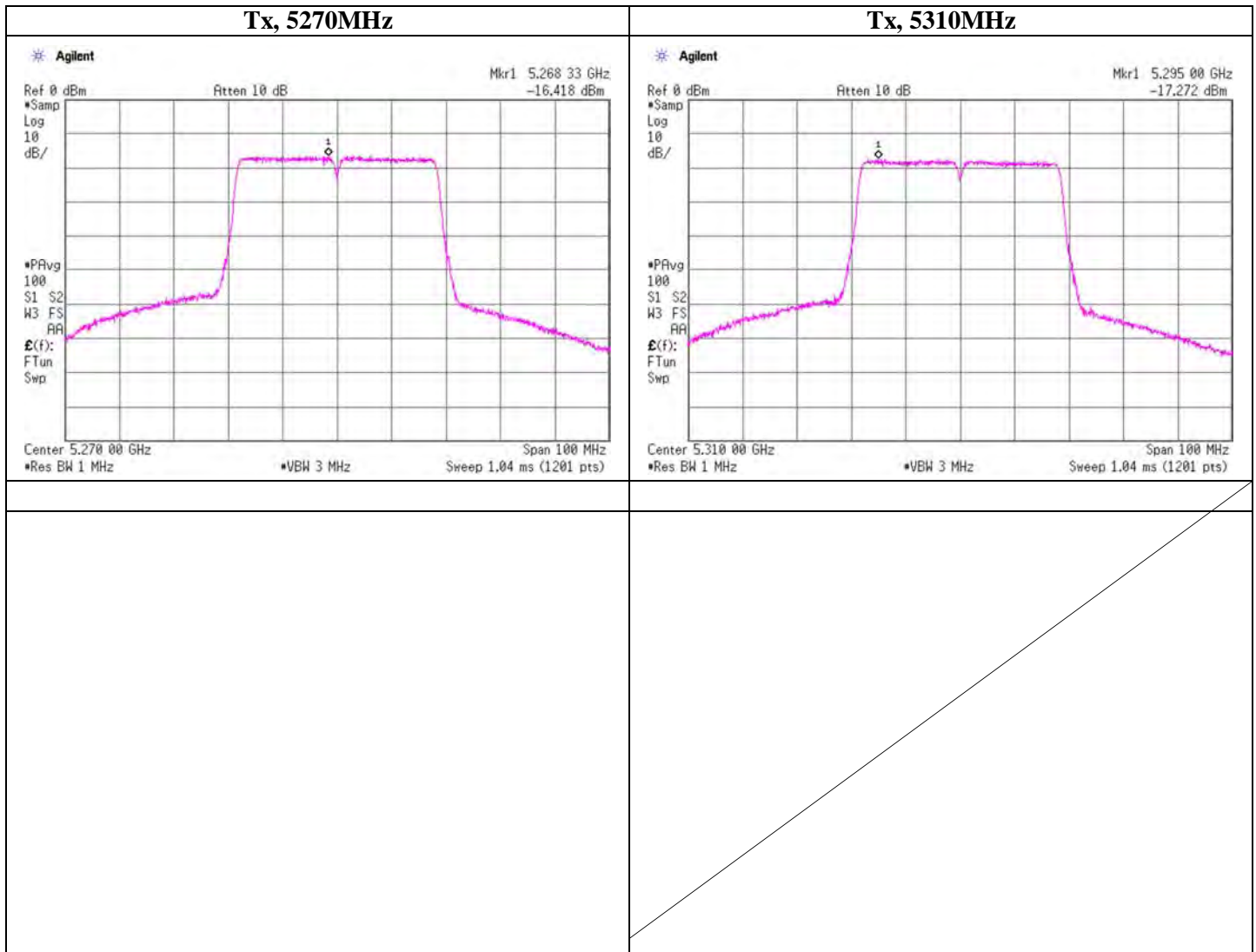


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**Shonan EMC Lab.**

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### Peak Power Spectral Density

11n HT40



**UL Japan, Inc.**  
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## Peak Excursion Ratio

Test place                      UL Japan, Inc. Shonan EMC Lab.                      No.5 Shielded Room  
 Date                                2011/6/15  
 Temperature / Humidity        23deg.C.                      47%RH  
 Engineer                         Akio Hayashi

11a, Tx, Worst rate: 6Mbps

Freq. [MHz]	Peak Power Excursion [dB]	Limit [dB]
5180	7.431	=< 13.0
5200	7.230	=< 13.0
5240	7.289	=< 13.0
5260	7.839	=< 13.0
5280	7.263	=< 13.0
5320	7.341	=< 13.0

11n (HT20), Tx, Worst rate: MCS2

Freq. [MHz]	Peak Power Excursion [dB]	Limit [dB]
5180	8.925	=< 13.0
5200	7.803	=< 13.0
5240	7.421	=< 13.0
5260	10.352	=< 13.0
5280	7.379	=< 13.0
5320	8.185	=< 13.0

11n (HT40), Tx, Worst rate: MCS2

Freq. [MHz]	Peak Power Excursion [dB]	Limit [dB]
5190	8.849	=< 13.0
5230	10.165	=< 13.0
5270	9.850	=< 13.0
5310	11.688	=< 13.0

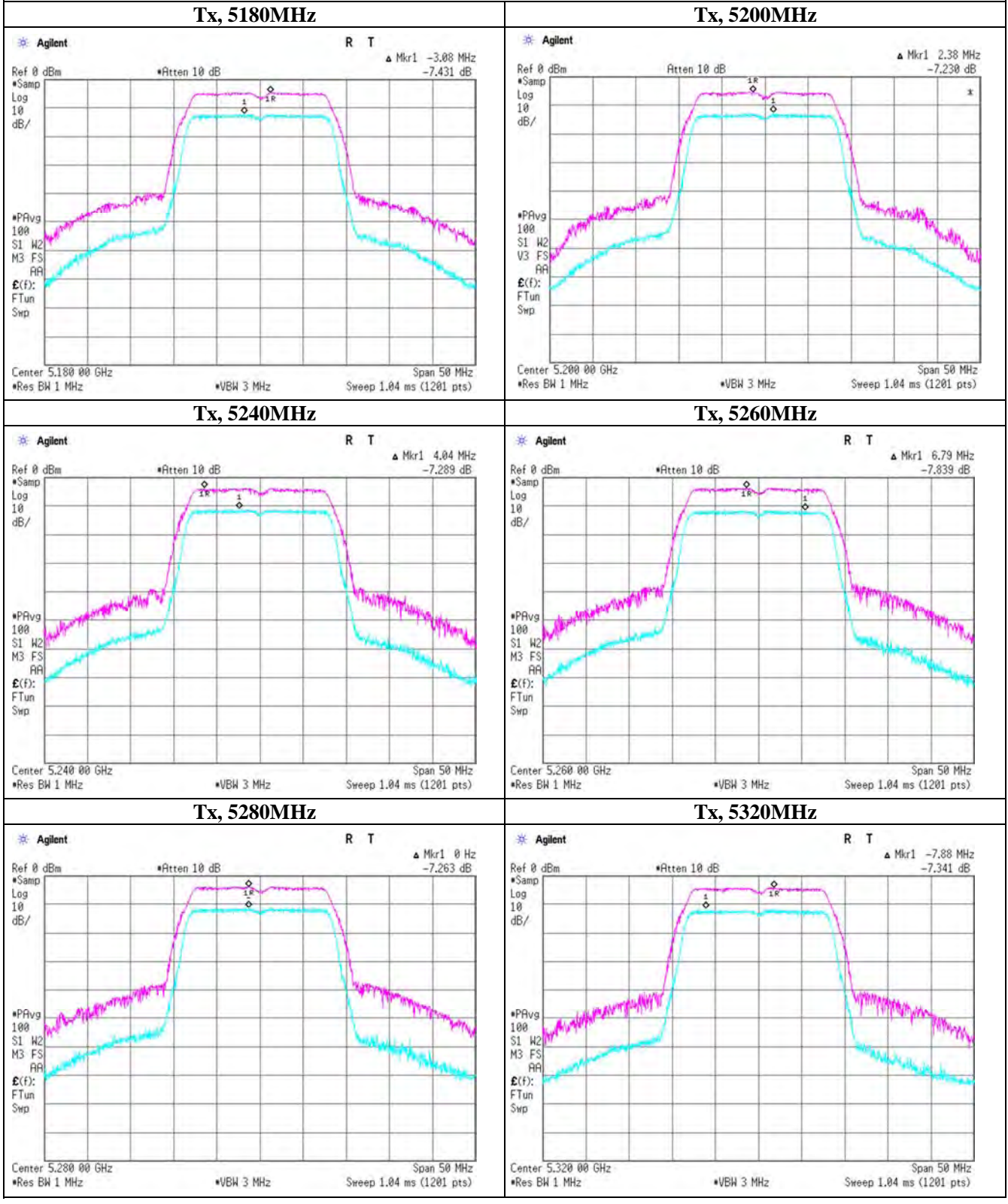
**UL Japan, Inc.**  
**Shonan EMC Lab.**

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### Peak Excursion Ratio

11a

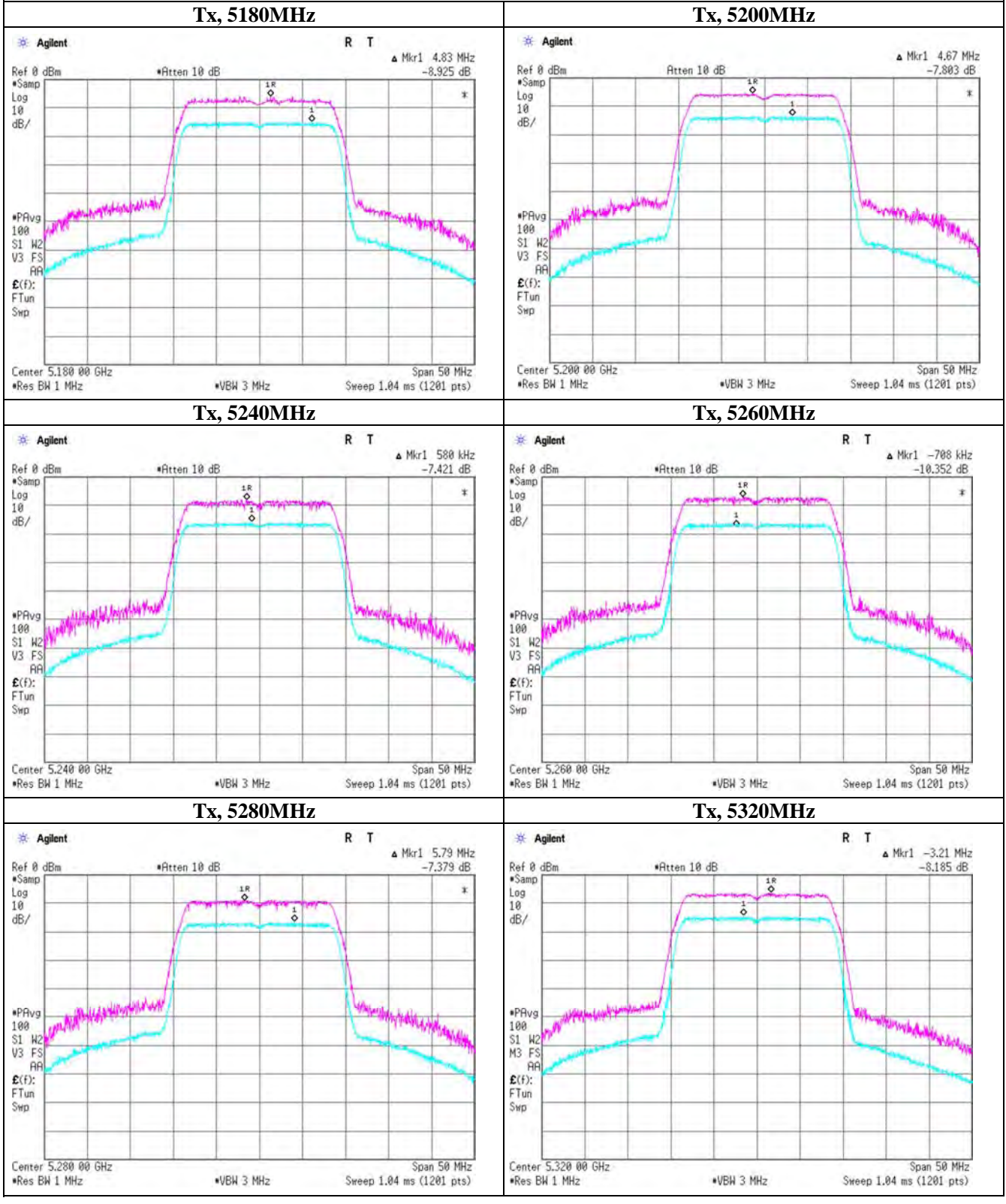


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## Peak Excursion Ratio

### 11n HT20

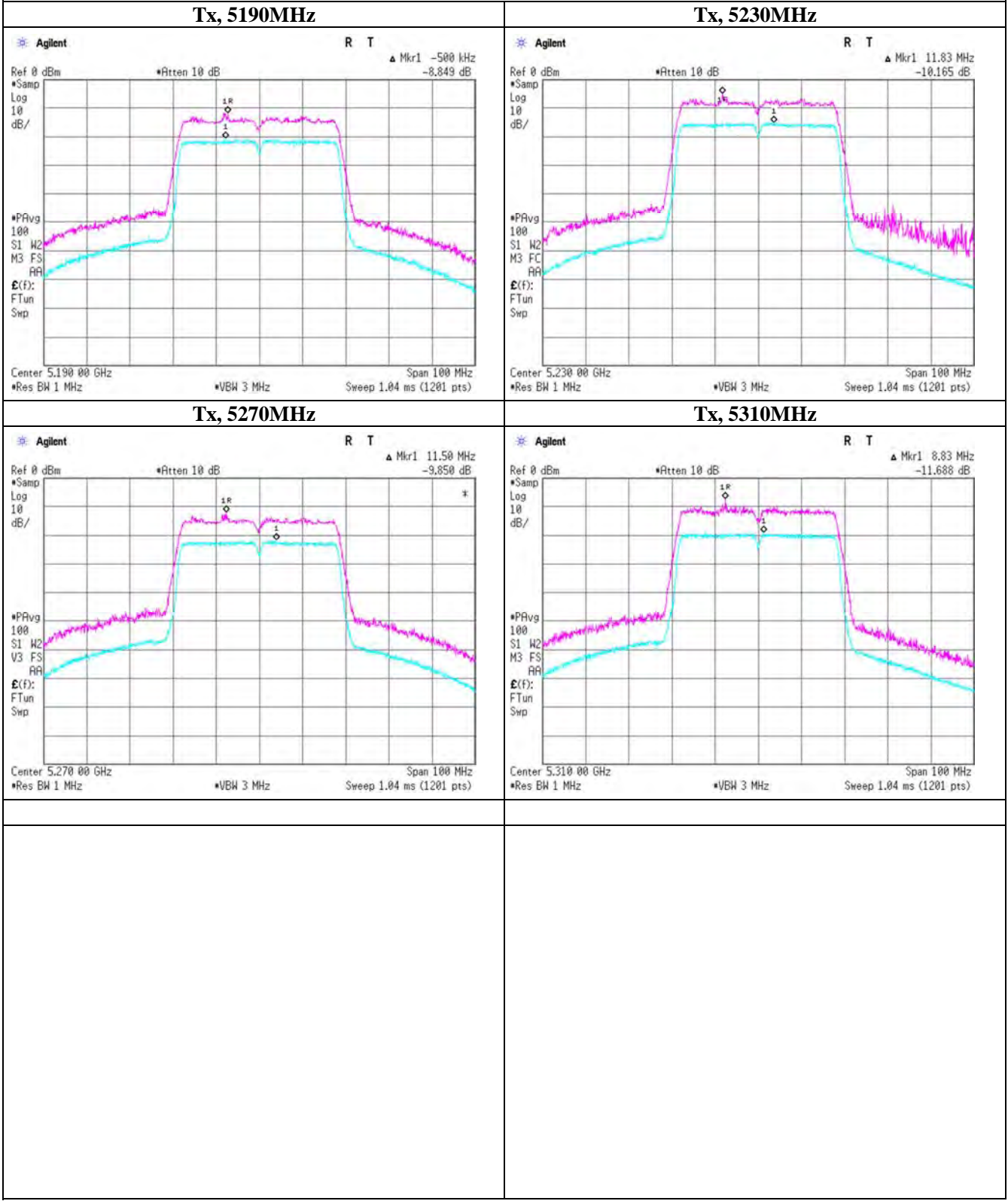


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**Peak Excursion Ratio**

**11n HT40**



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### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT	2011/04/12 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT	2011/04/12 * 12
SAT10-09	Attenuator	Weinschel Corp.	54A-10	W5692	AT	2010/11/24 * 12
SOS-10	Humidity Indicator	A&D	AD-5681	4064561	AT	2011/02/23 * 12
KSA-08	Spectrum Analyzer	Agilent	E4446A	MY46180525	AT/RE	2011/02/02 * 12
SCC-G11	Coaxial Cable	Suhner	SUCOFLEX 102	31595/2	AT	2011/03/23 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	AT	2011/03/23 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	2011/03/02 * 12
SAF-04	Pre Amplifier	TOYO Corporation	TPA0118-36	1440489	RE	2011/03/23 * 12
SCC-G02	Coaxial Cable	Suhner	SUCOFLEX 104A	46498/4A	RE	2011/04/28 * 12
SCC-G22	Coaxial Cable	Suhner	SUCOFLEX 104	296199/4	RE	2011/05/27 * 12
SHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-726	RE	2010/08/08 * 12
SOS-03	Humidity Indicator	A&D	AD-5681	4063325	RE	2011/02/23 * 12
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	RE	2010/11/16 * 12
SJM-02	Measure	KOMELON	KMC-36	-	RE/CE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFLMF)	-	RE/CE	-
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	RE	2010/12/15 * 12
SAT10-05	Attenuator(above1GHz)	Agilent	8493C-010	74864	RE	2010/12/15 * 12
SFL-03	Highpass Filter	MICRO-TRONICS	HPM50112	028	RE	2010/12/15 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	2011/03/07 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2011/03/15 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2011/03/16 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2011/03/16 * 12
SHA-06	Horn Antenna	ETS LINDGREN	3160-10	LM3459	RE	2011/03/15 * 12
SAF-10	Pre Amplifier	TOYO Corporation	HAP26-40W	00000010	RE	2011/03/16 * 12
SCC-G19	Coaxial Cable	Suhner	SUCOFLEX 102A	1188/2A	RE	2011/03/16 * 12

The expiration date of the calibration is the end of the expired month .  
As for some calibrations performed after the tested dates , those test equipment have been controlled by means of an unbroken chains of calibrations .

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

CE: Conducted emission,  
RE: Radiated emission,  
AT: Antenna terminal conducted test

### APPENDIX 3 Test Instruments

#### EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-02	Pre Amplifier	SONOMA	310N	290212	RE	2011/02/17 * 12
SAT6-02	Attenuator	JFW	50HF-006N	-	RE	2011/02/17 * 12
SAT3-02	Attenuator	JFW	50HF-003N	-	RE	2011/02/17 * 12
SBA-02	Biconical Antenna	Schwarzbeck	BBA9106	91032665	RE	2010/10/11 * 12
SCC-B1/B3/B5/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2011/04/28 * 12
SCC-B2/B4/B6/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2011/04/28 * 12
SLA-02	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP9108-A 0893	RE	2010/10/11 * 12
STR-02	Test Receiver	Rohde & Schwarz	ESCI	100575	RE/CE	2010/08/18 * 12
SAEC-02(NSA)	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	RE	2010/09/04 * 12
SCC-B12/B13/SRSE-02	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-270(RF Selector)	CE	2011/04/28 * 12
SLS-03	LISN	Rohde & Schwarz	ENV216	100513	CE	2011/02/23 * 12
SAT3-05	Attenuator	JFW	50HF-003N	-	CE	2011/02/17 * 12
SOS-04	Humidity Indicator	A&D	AD-5681	4061512	CE	2011/03/02 * 12

The expiration date of the calibration is the end of the expired month .

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

All equipment is calibrated with valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

CE: Conducted emission ,

RE: Radiated emission ,

AT: Antenna terminal conducted test