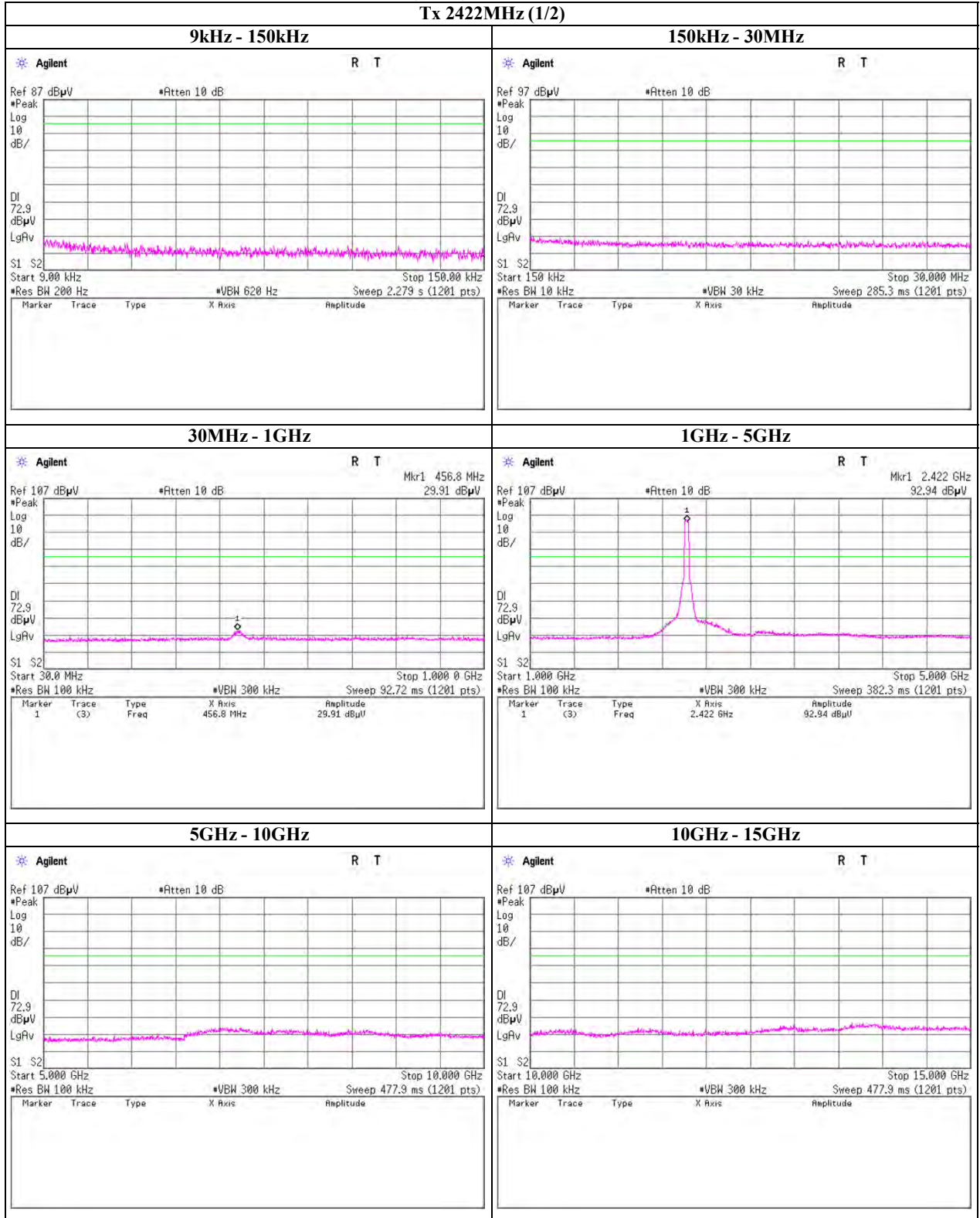


### Spurious emission (Conducted)

Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5

Tx 2422MHz (1/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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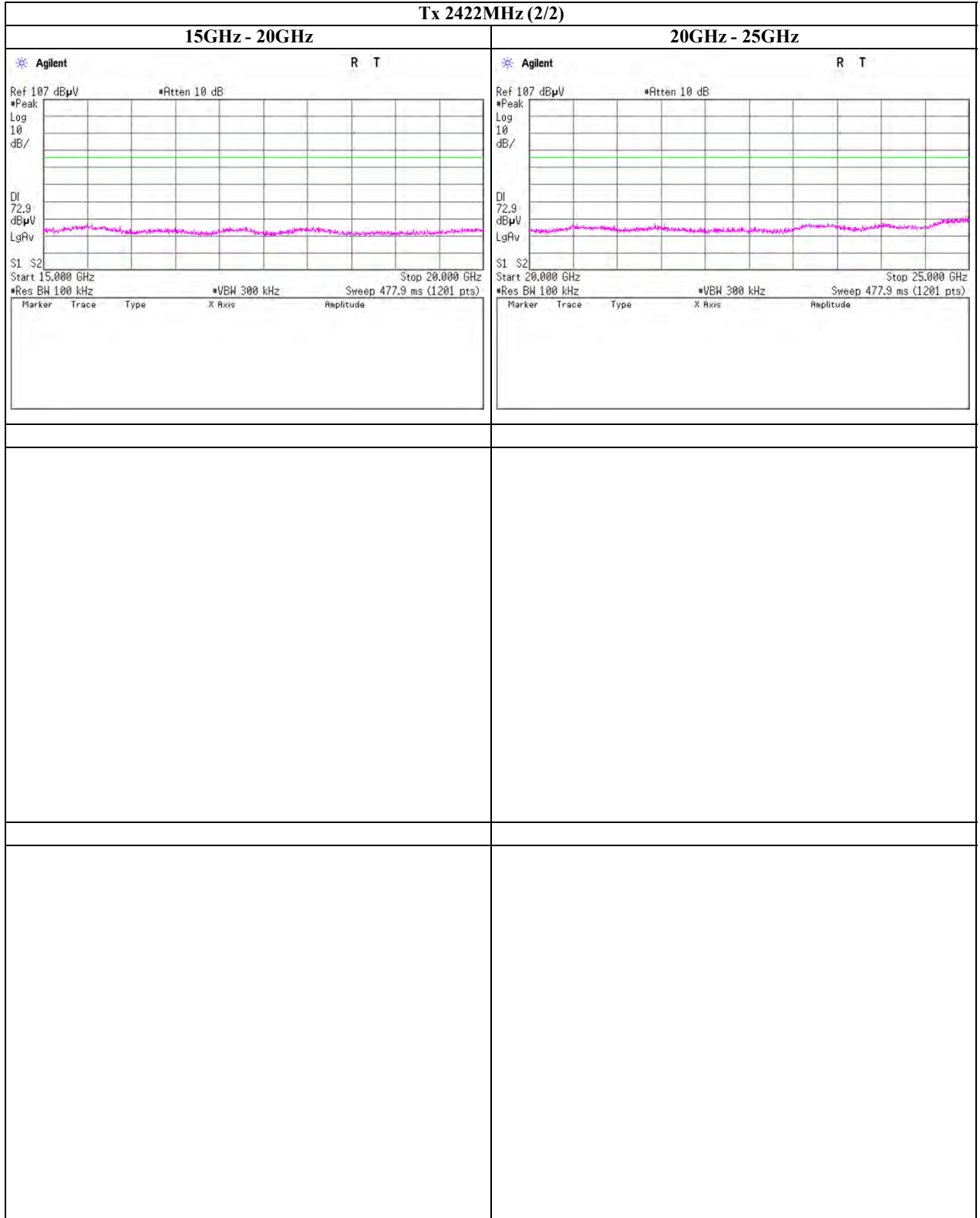
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

**Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5**

**Tx 2422MHz (2/2)**



**UL Japan, Inc.**

**Shonan EMC Lab.**

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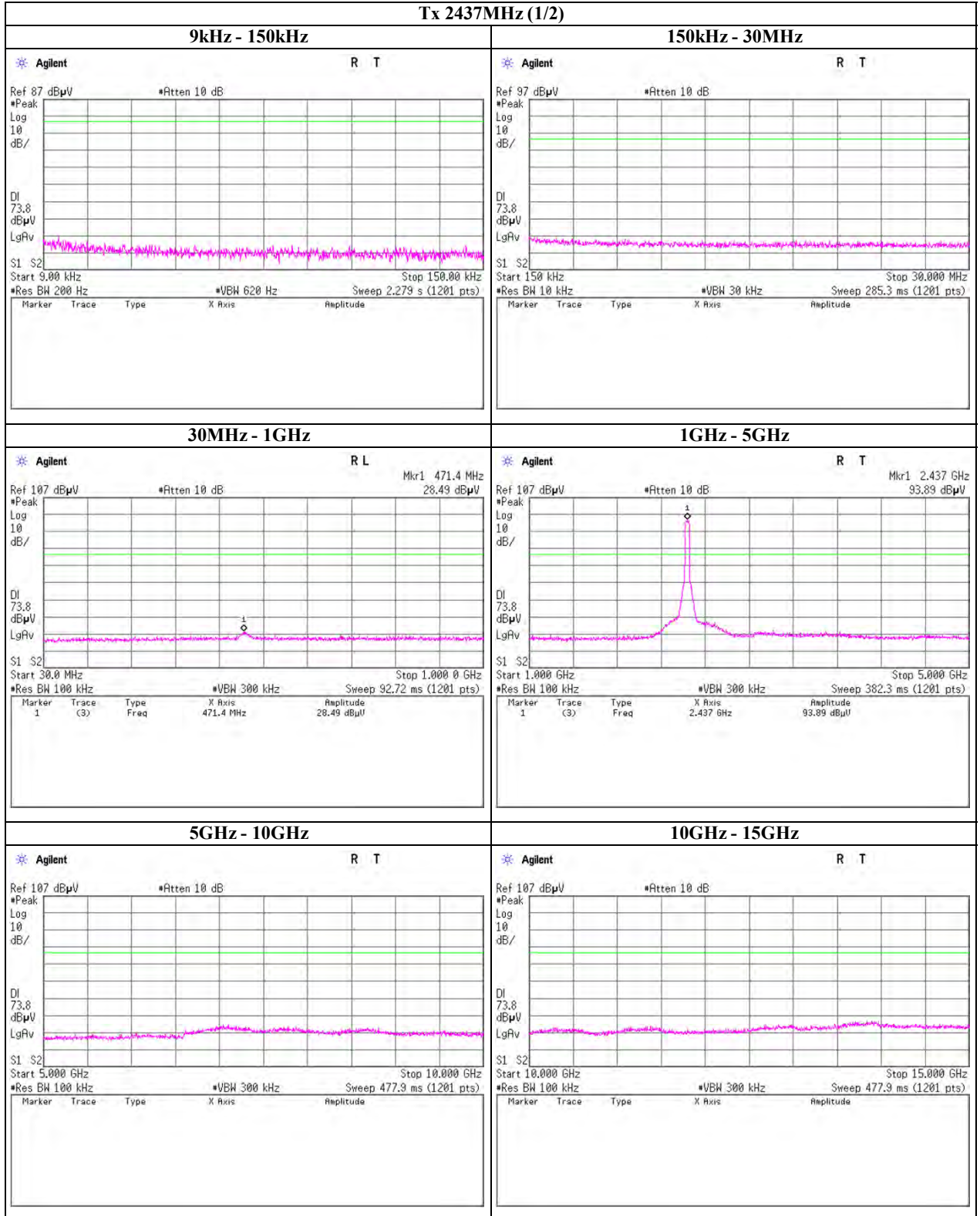
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5

Tx 2437MHz (1/2)



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Telephone : +81 463 50 6400

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**Spurious emission (Conducted)**

**Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5**

**Tx 2437MHz (2/2)**



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**Shonan EMC Lab.**

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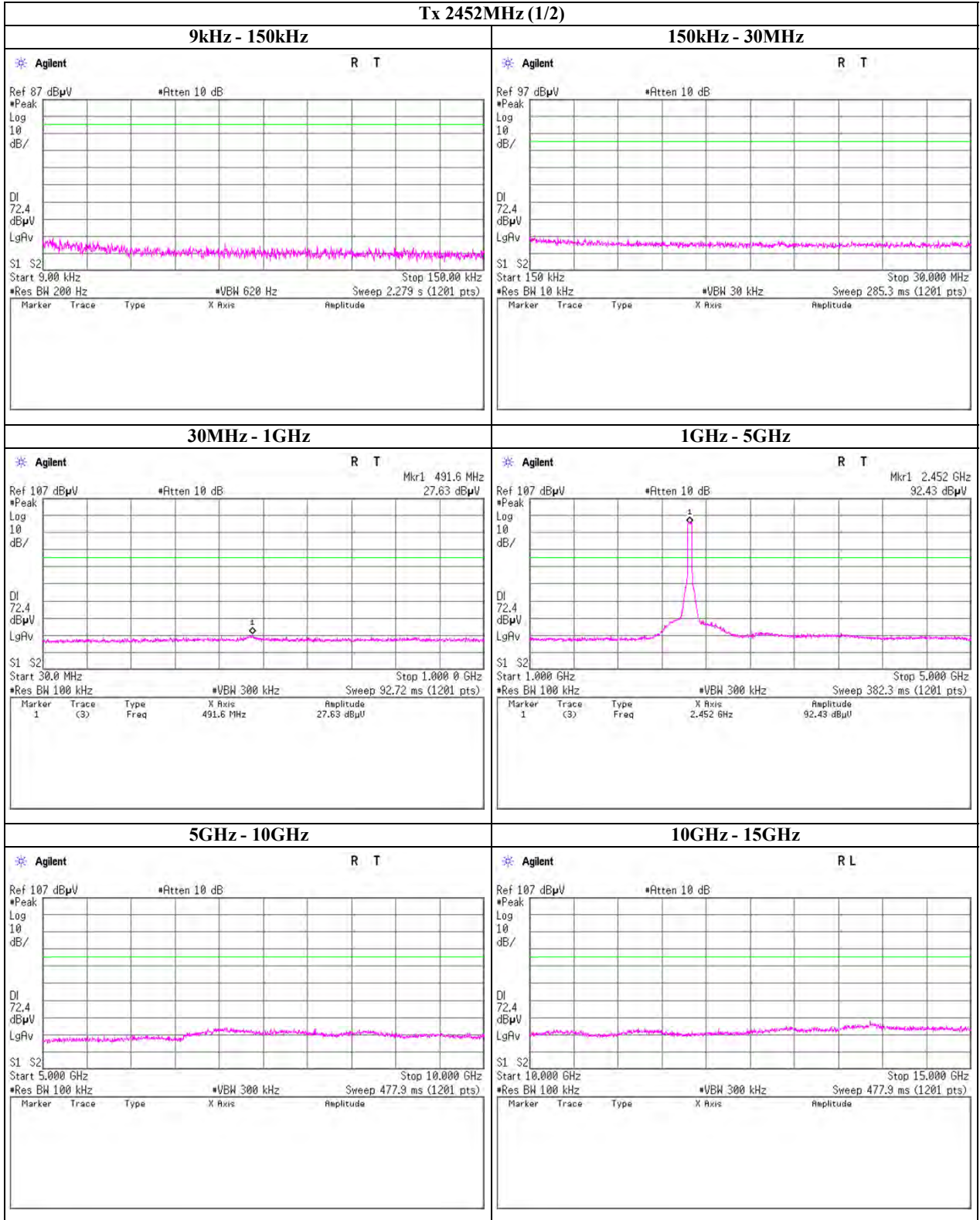
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5

Tx 2452MHz (1/2)



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**Shonan EMC Lab.**

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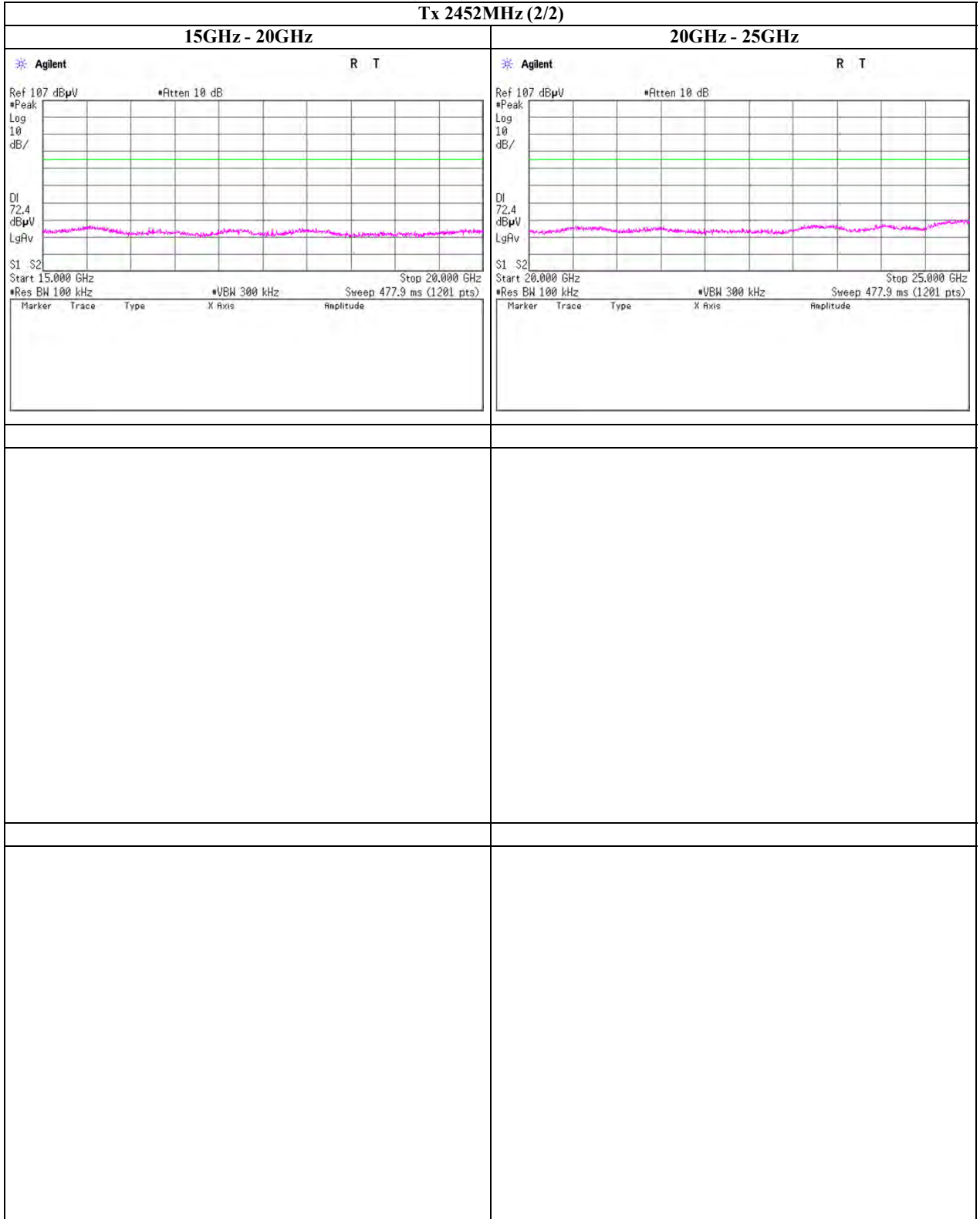
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

**Spurious emission (Conducted)**

Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5

Tx 2452MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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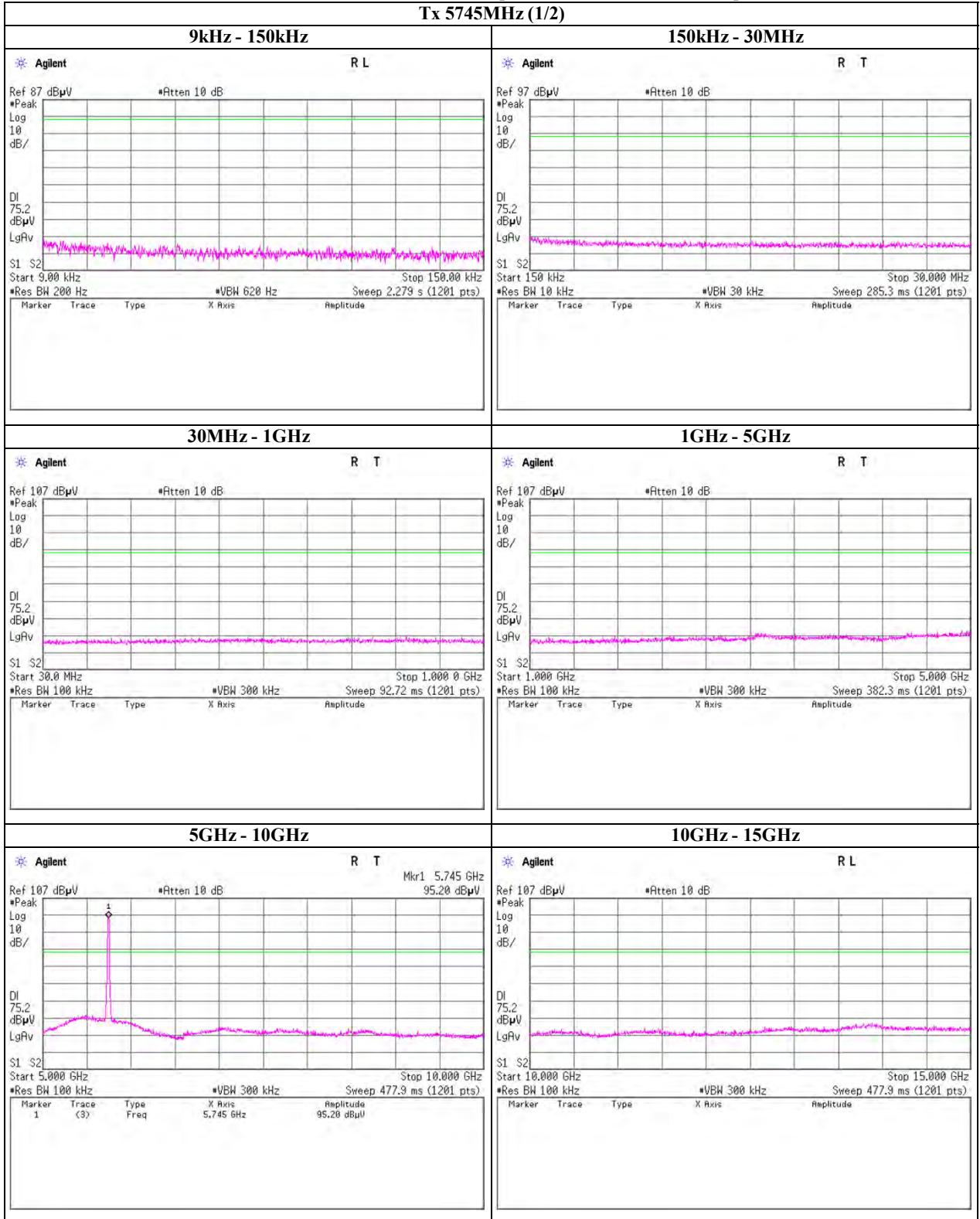
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5745MHz (1/2)



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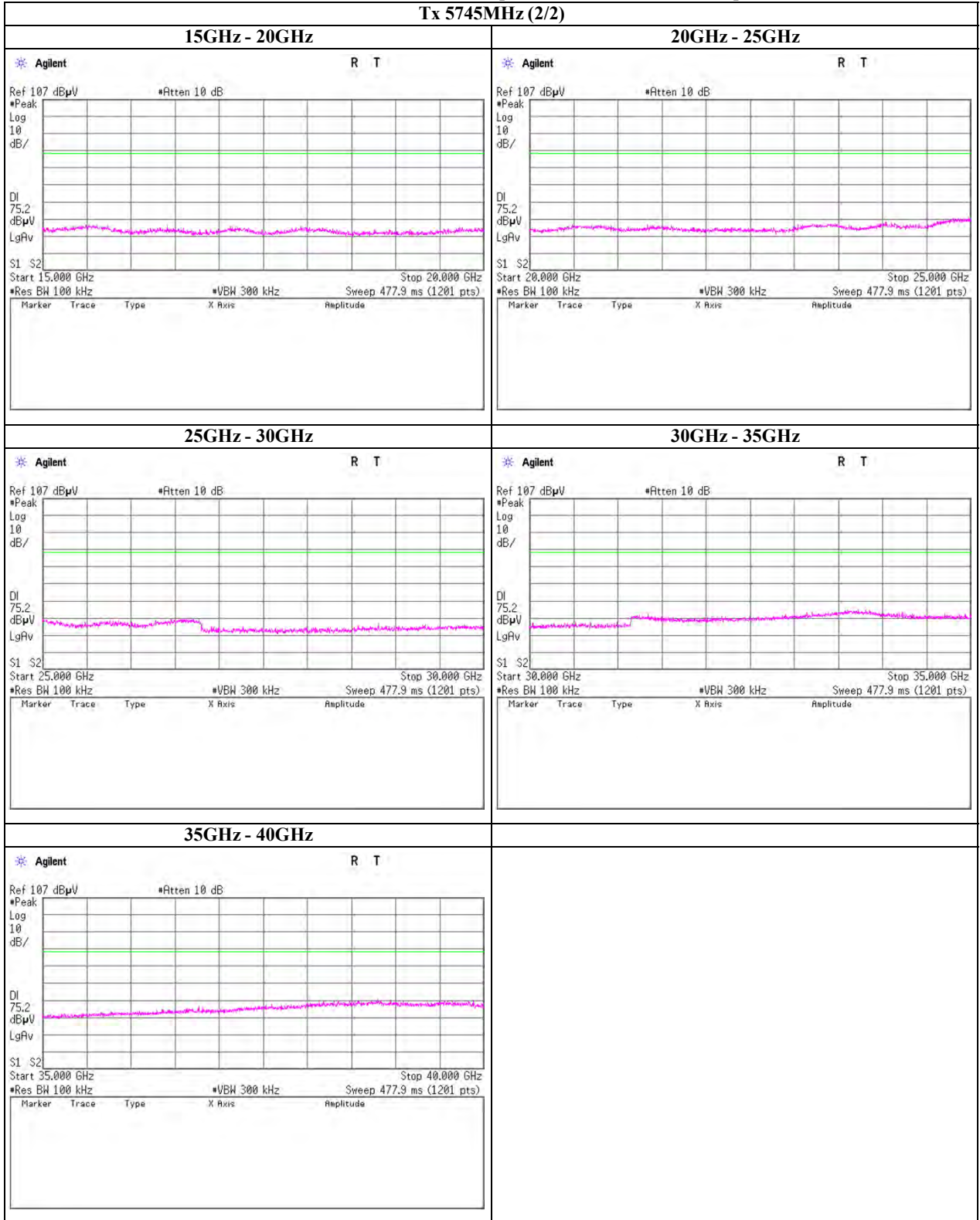
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5745MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

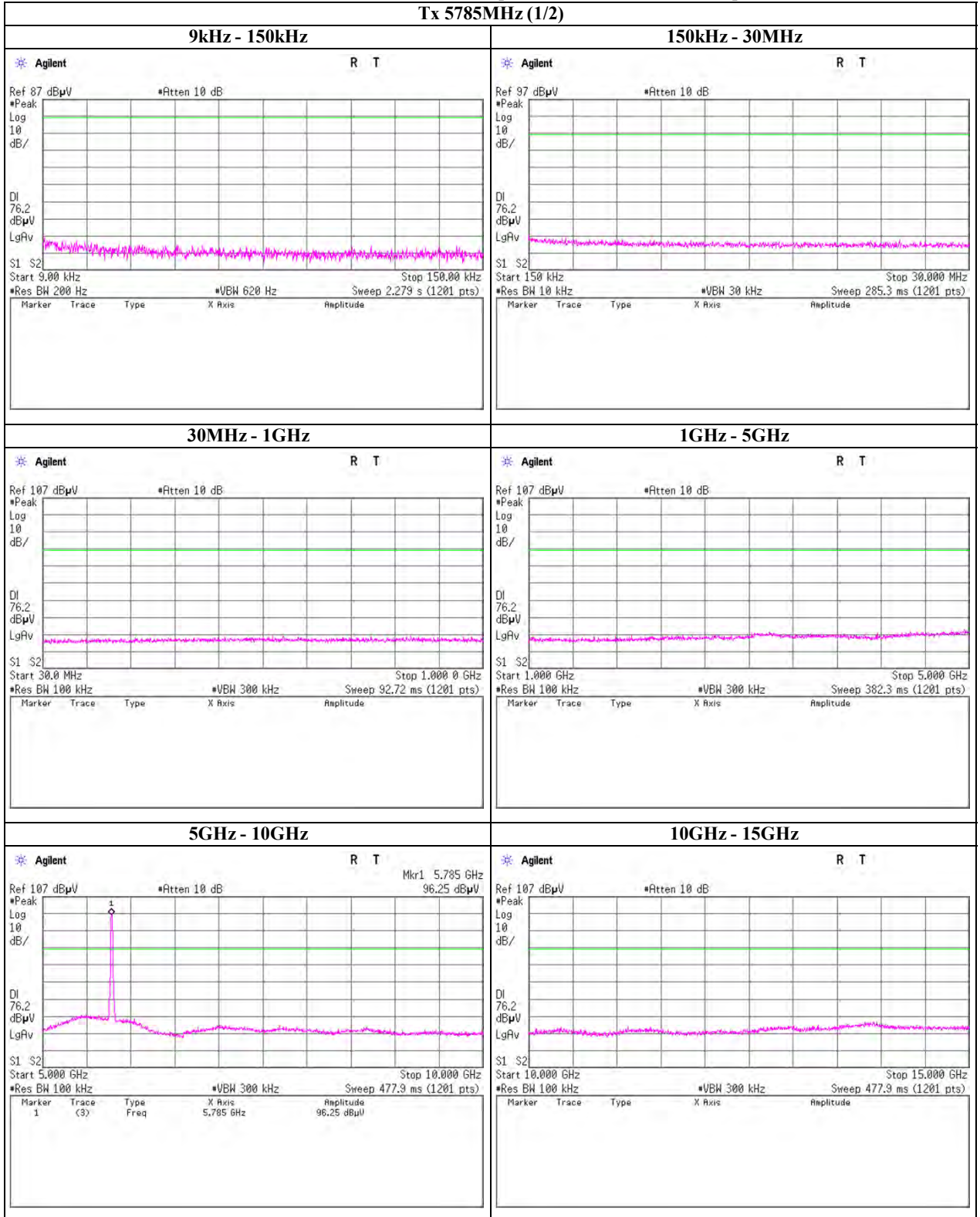
Facsimile : +81 463 50 6401



### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5785MHz (1/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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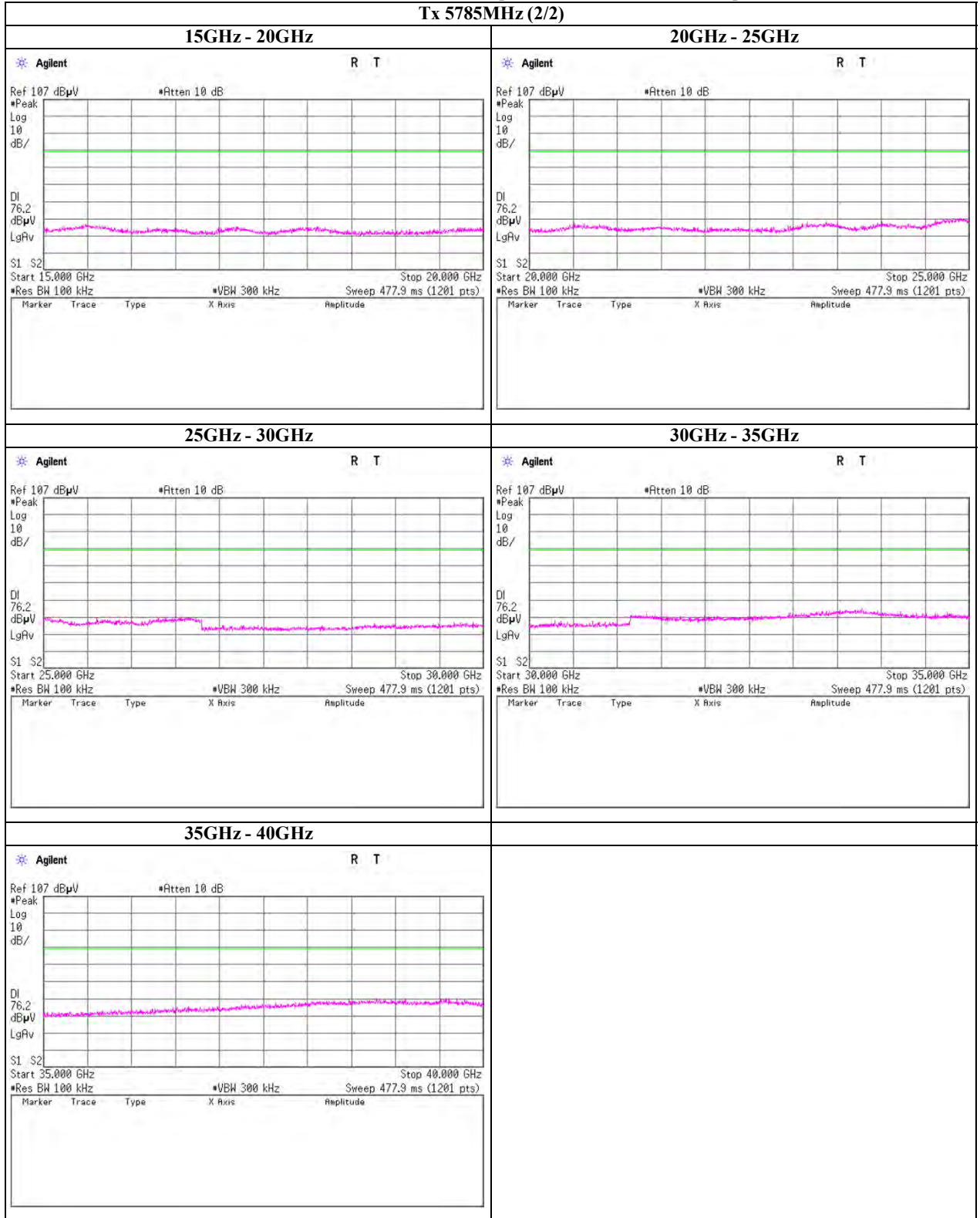
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5785MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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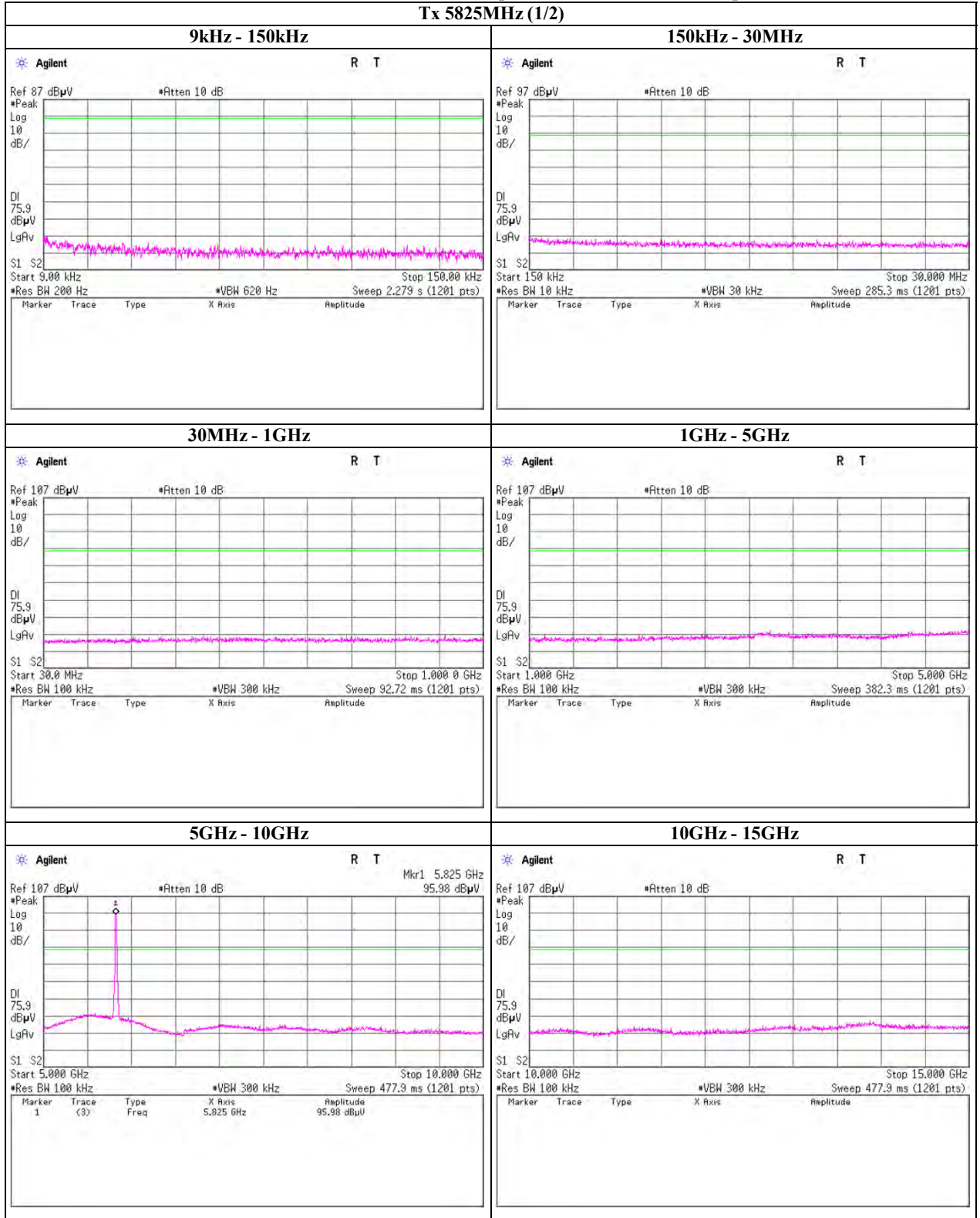
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5825MHz (1/2)



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**Shonan EMC Lab.**

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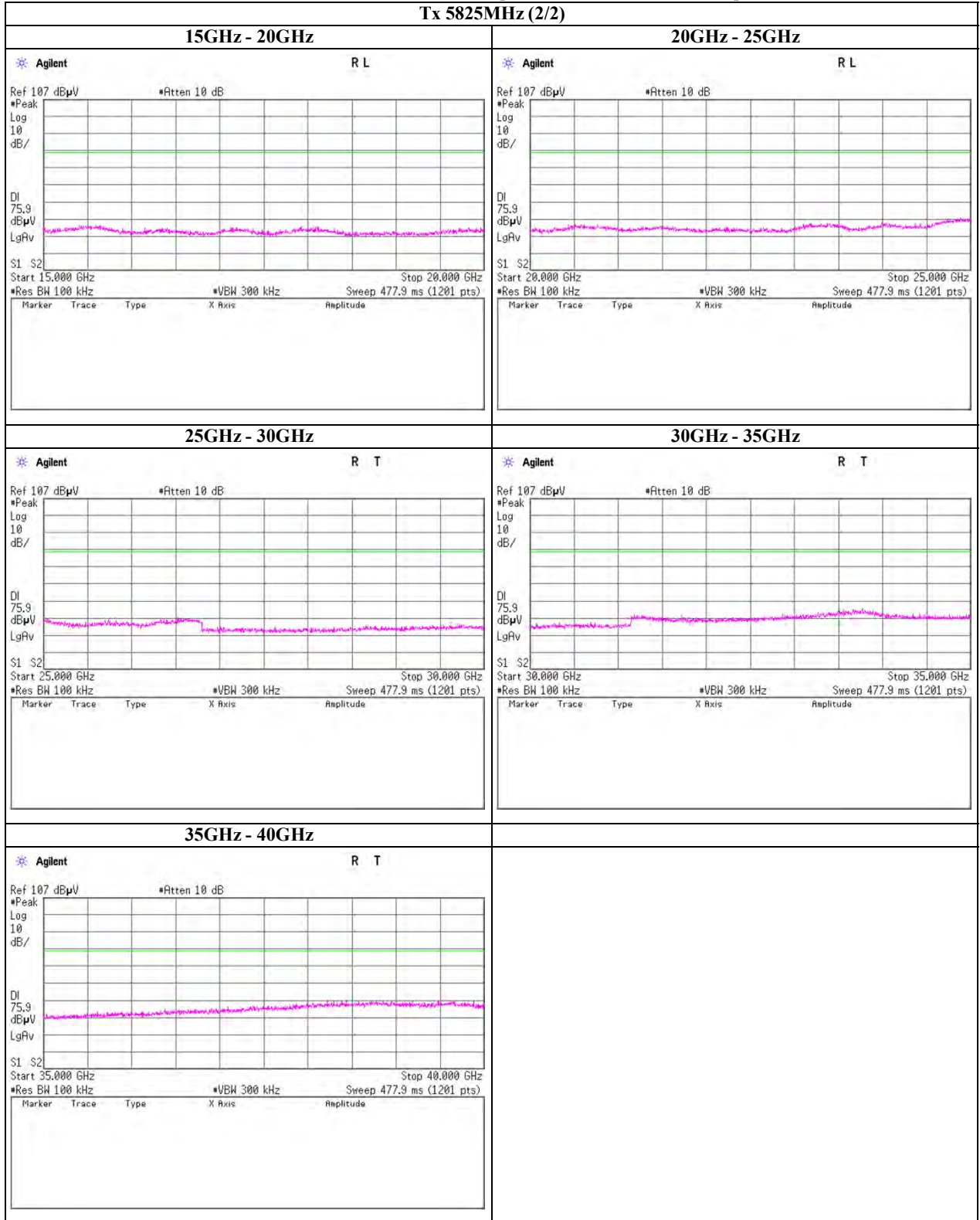
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11a, worst antenna port , worst data mode 24Mbps

Tx 5825MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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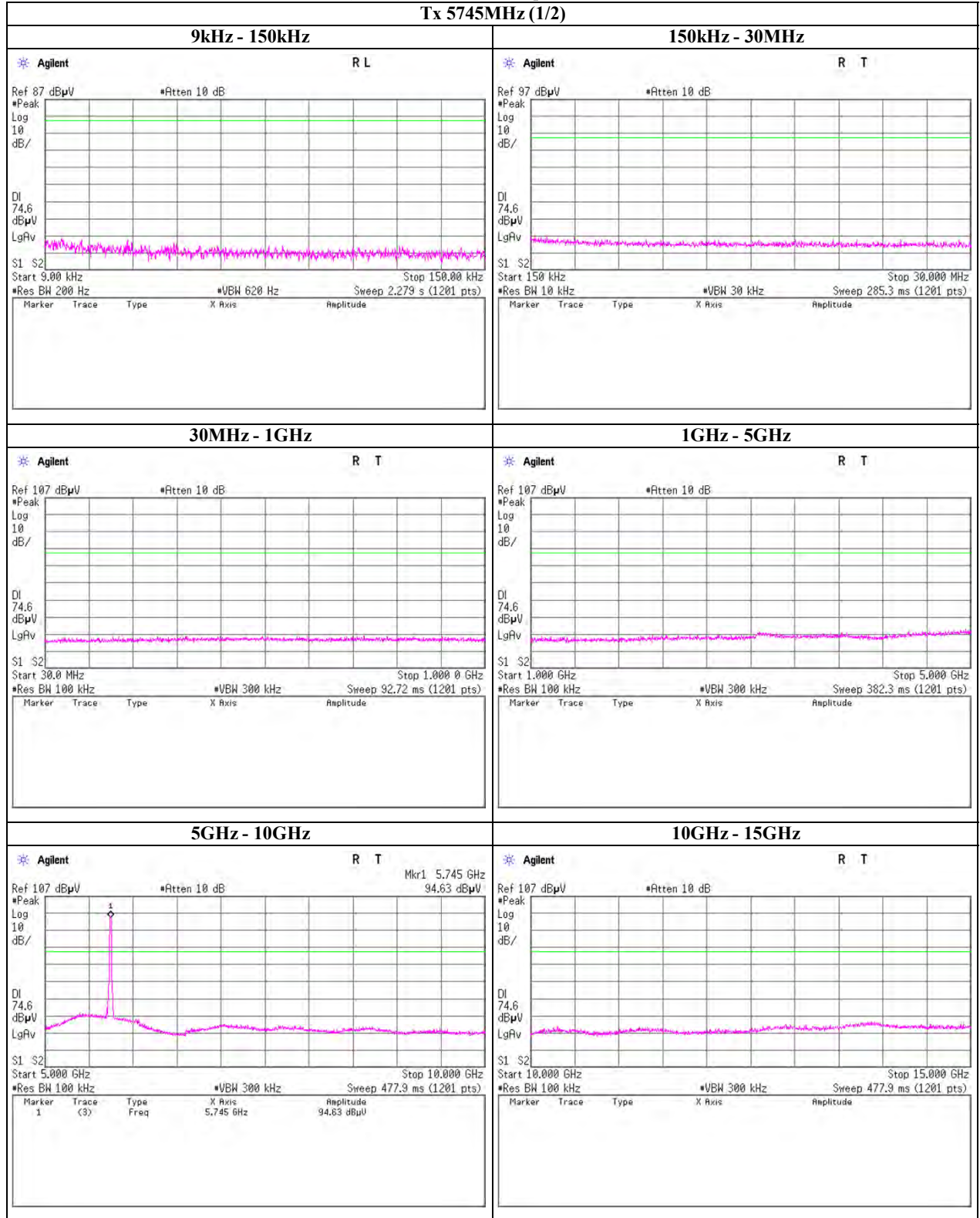
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5745MHz (1/2)



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**Shonan EMC Lab.**

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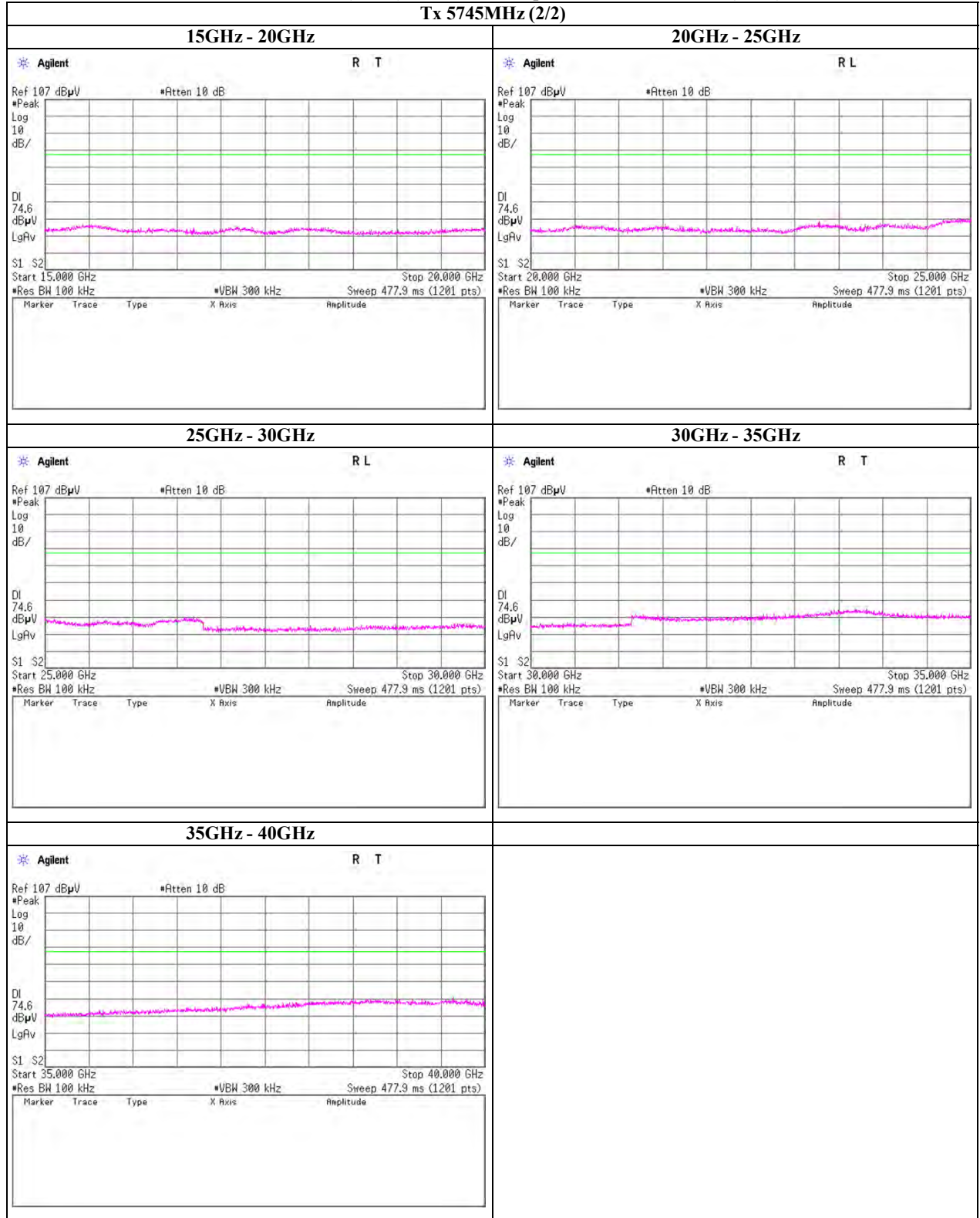
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5745MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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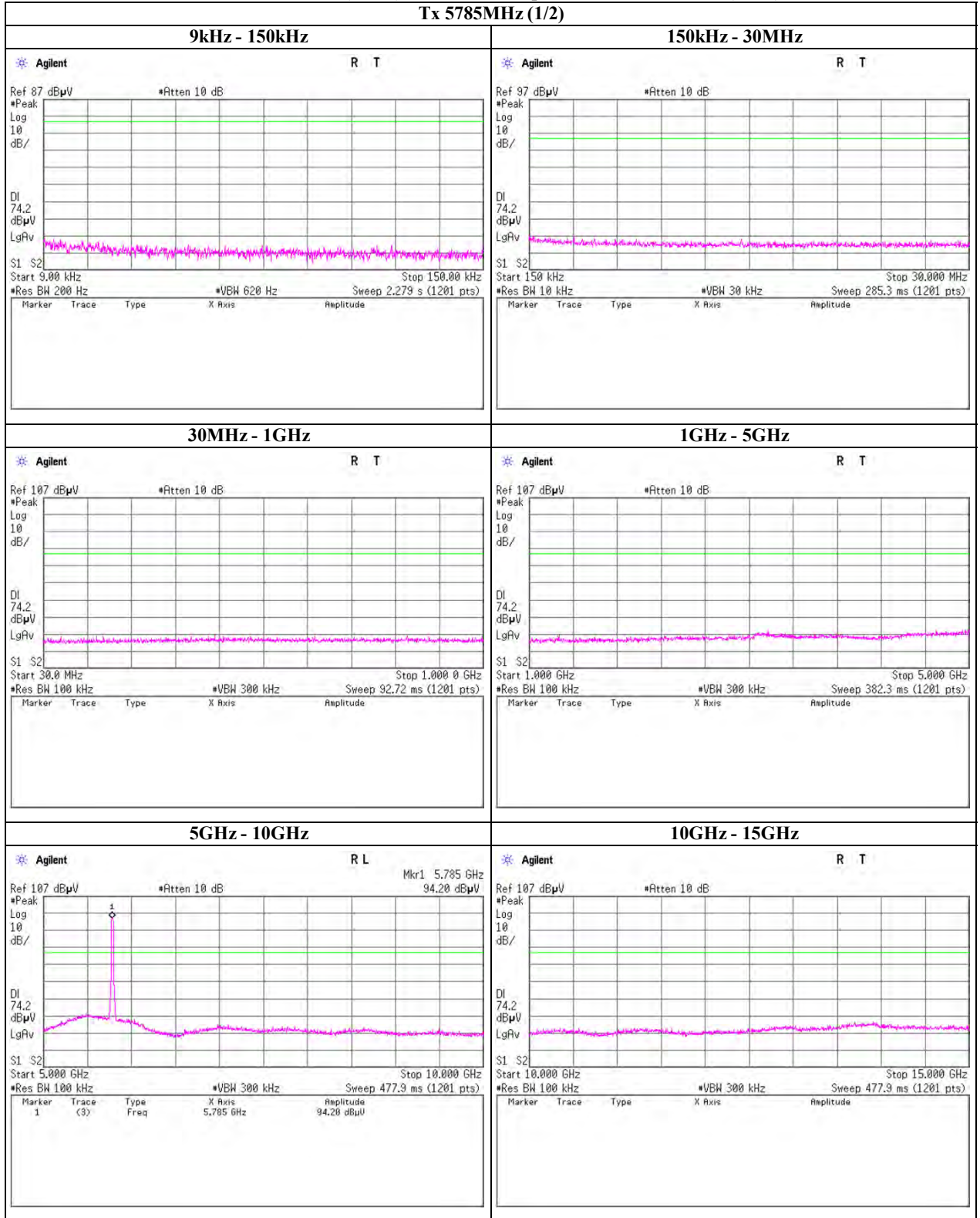
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5785MHz (1/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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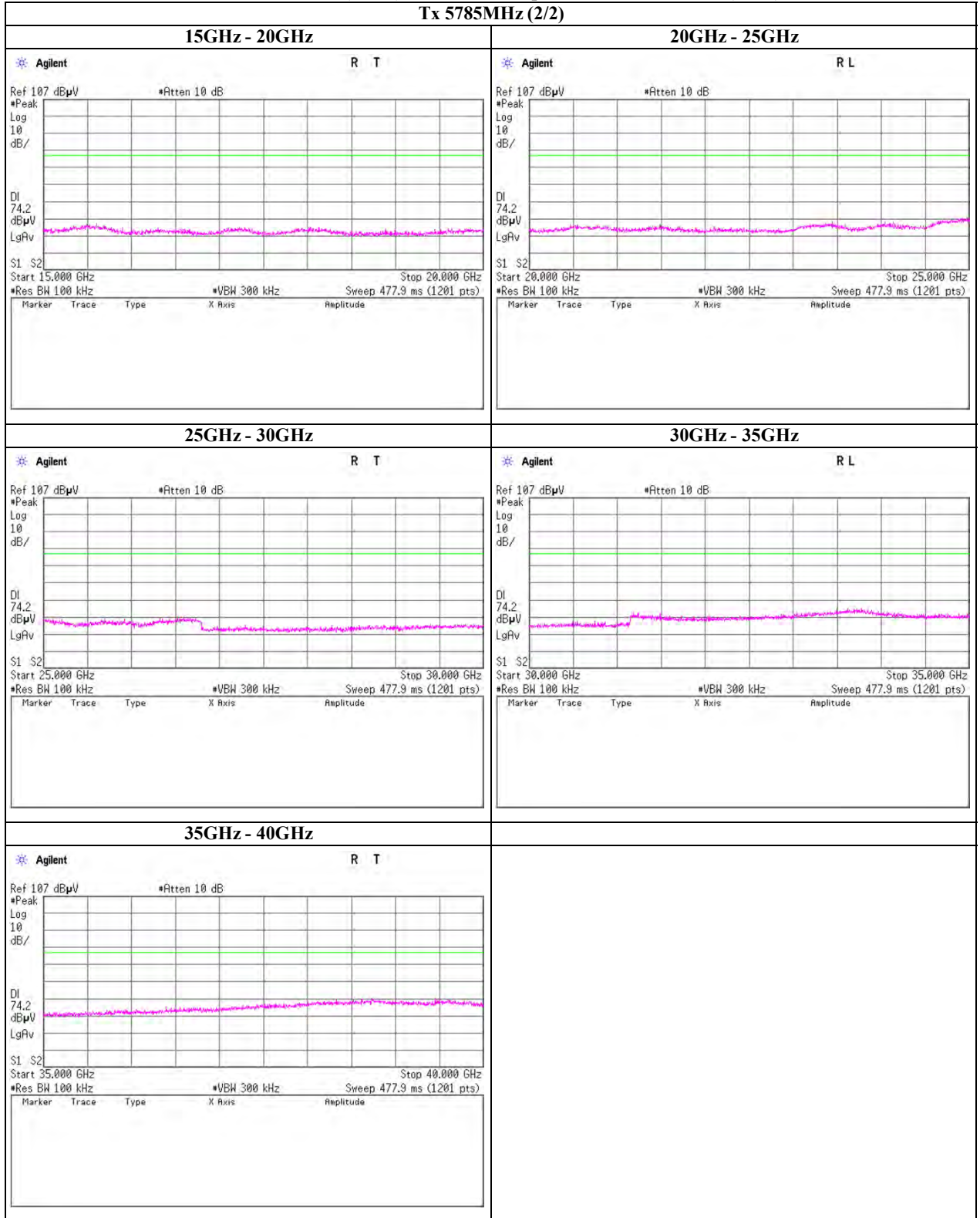
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5785MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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Telephone : +81 463 50 6400

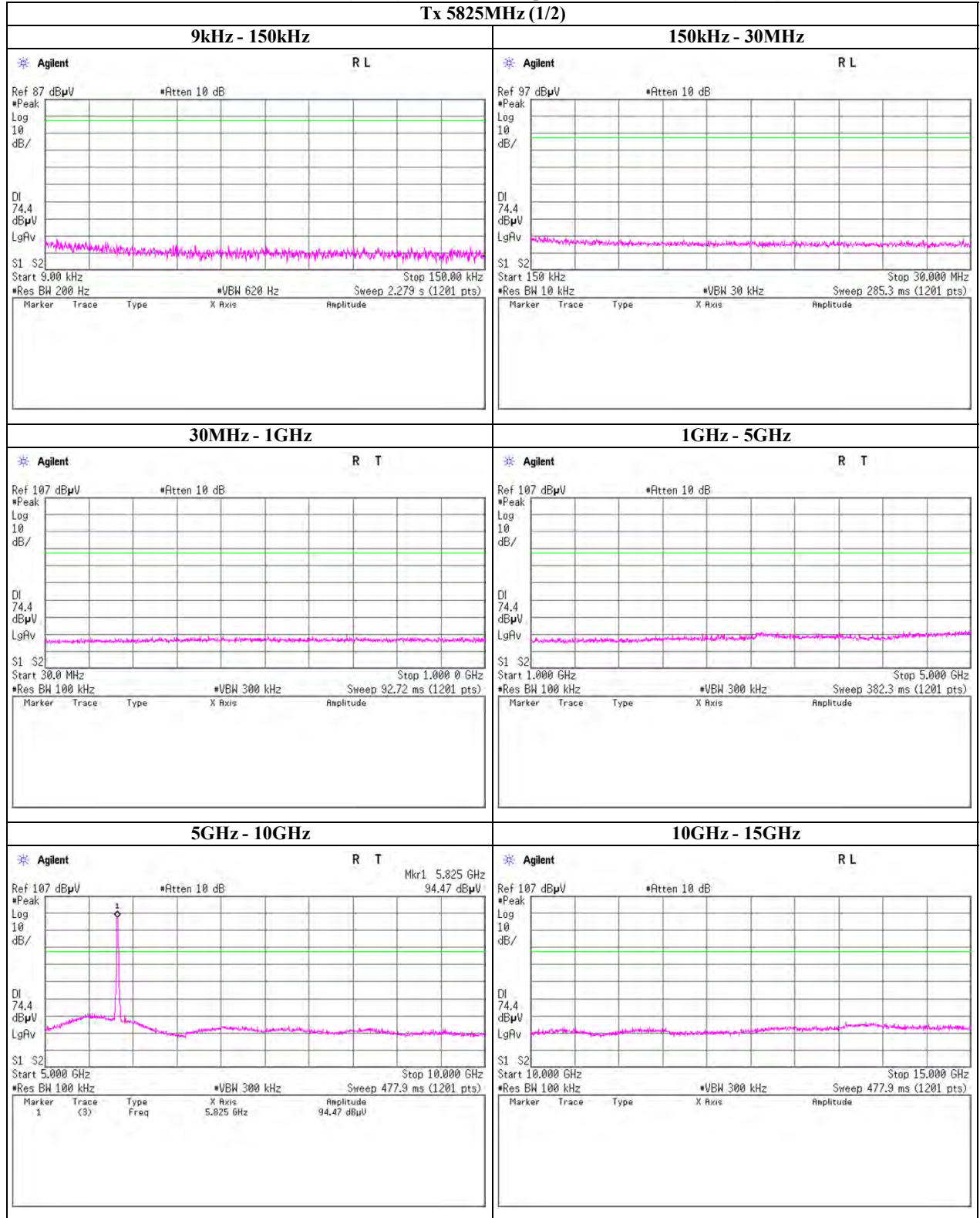
Facsimile : +81 463 50 6401



### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5825MHz (1/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

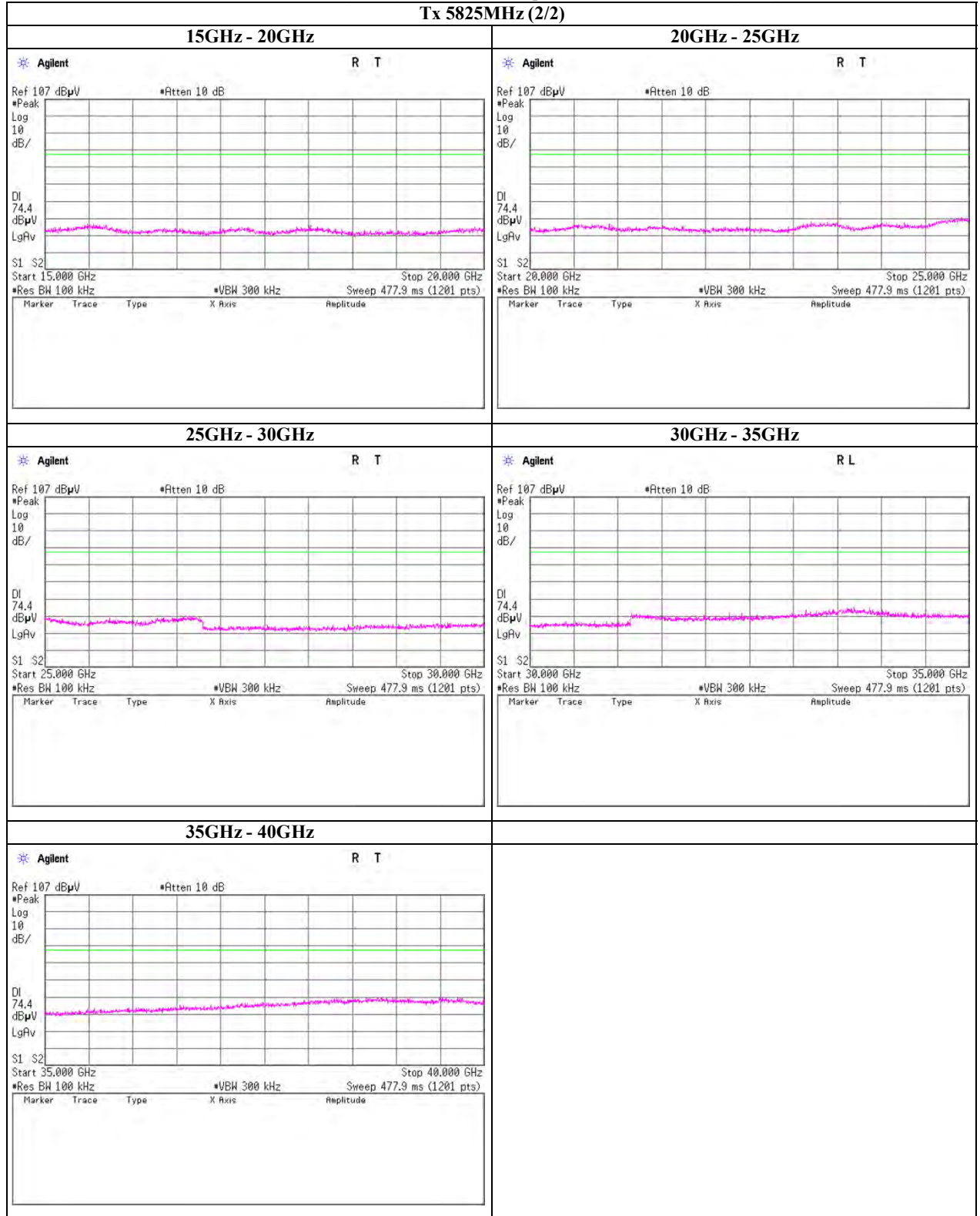
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT20), worst antenna port , worst data mode 2(MCS)

Tx 5825MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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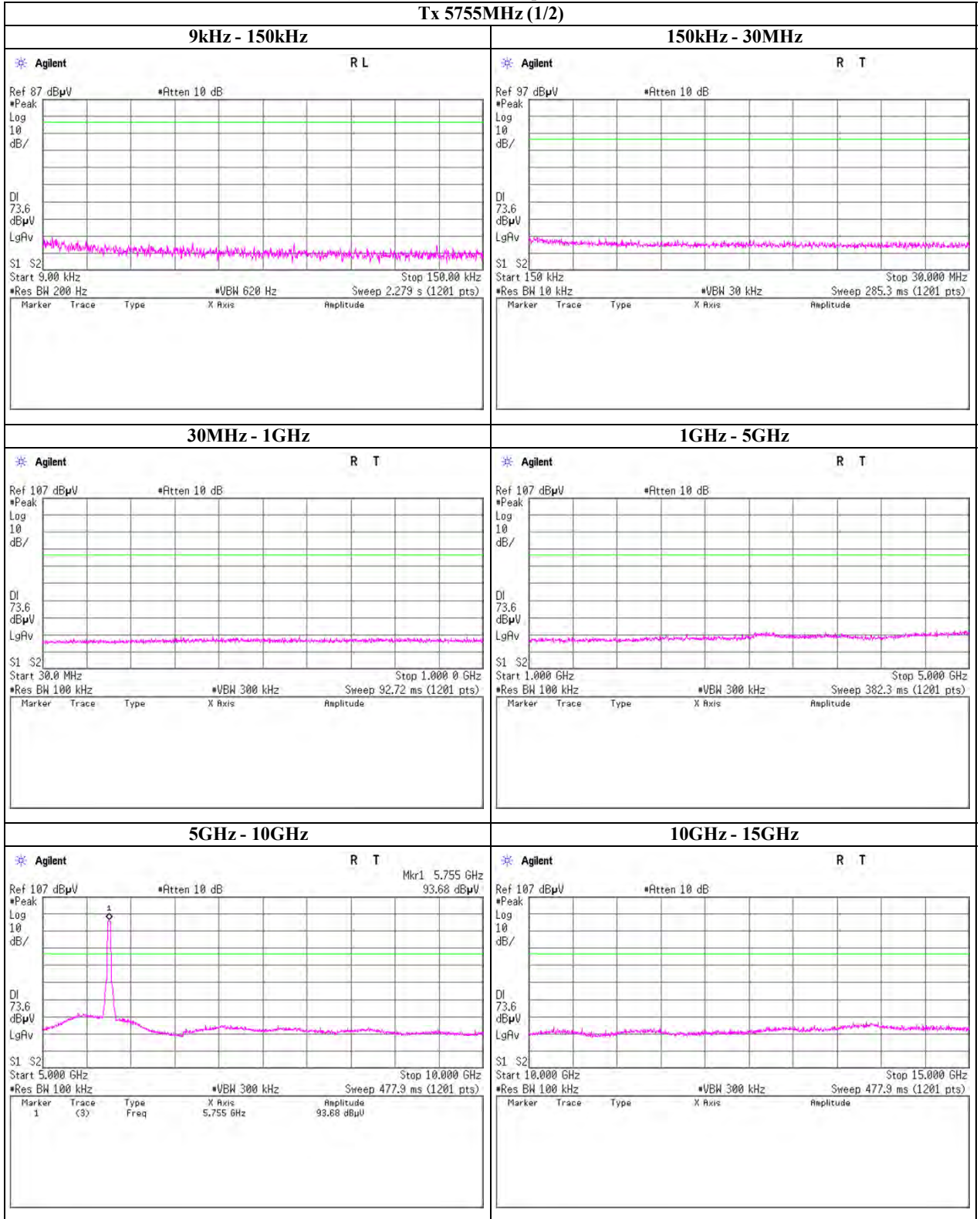
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT40), worst antenna port , worst data mode 5(MCS)

Tx 5755MHz (1/2)



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**Shonan EMC Lab.**

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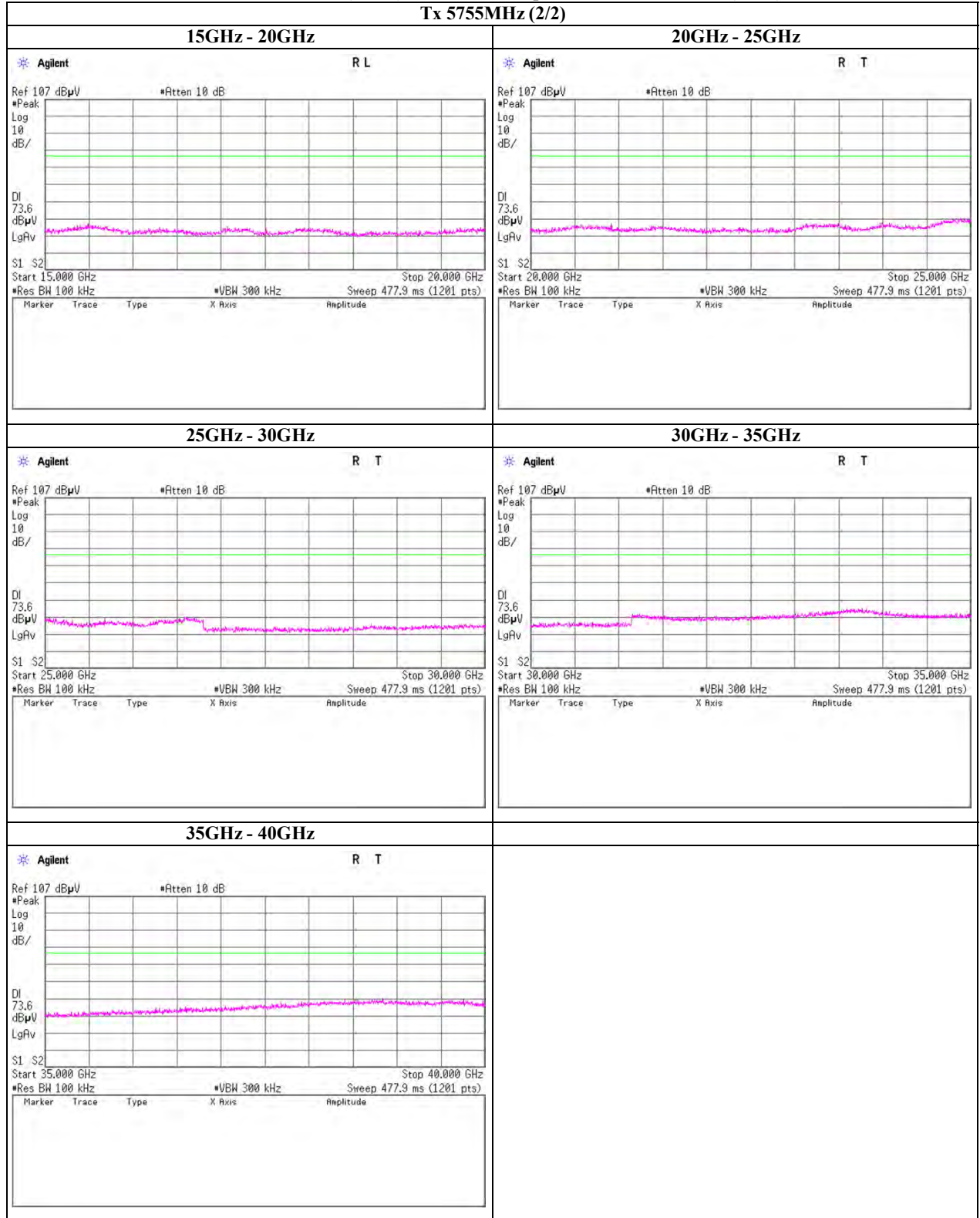
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT40), worst antenna port , worst data mode 5(MCS)

Tx 5755MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

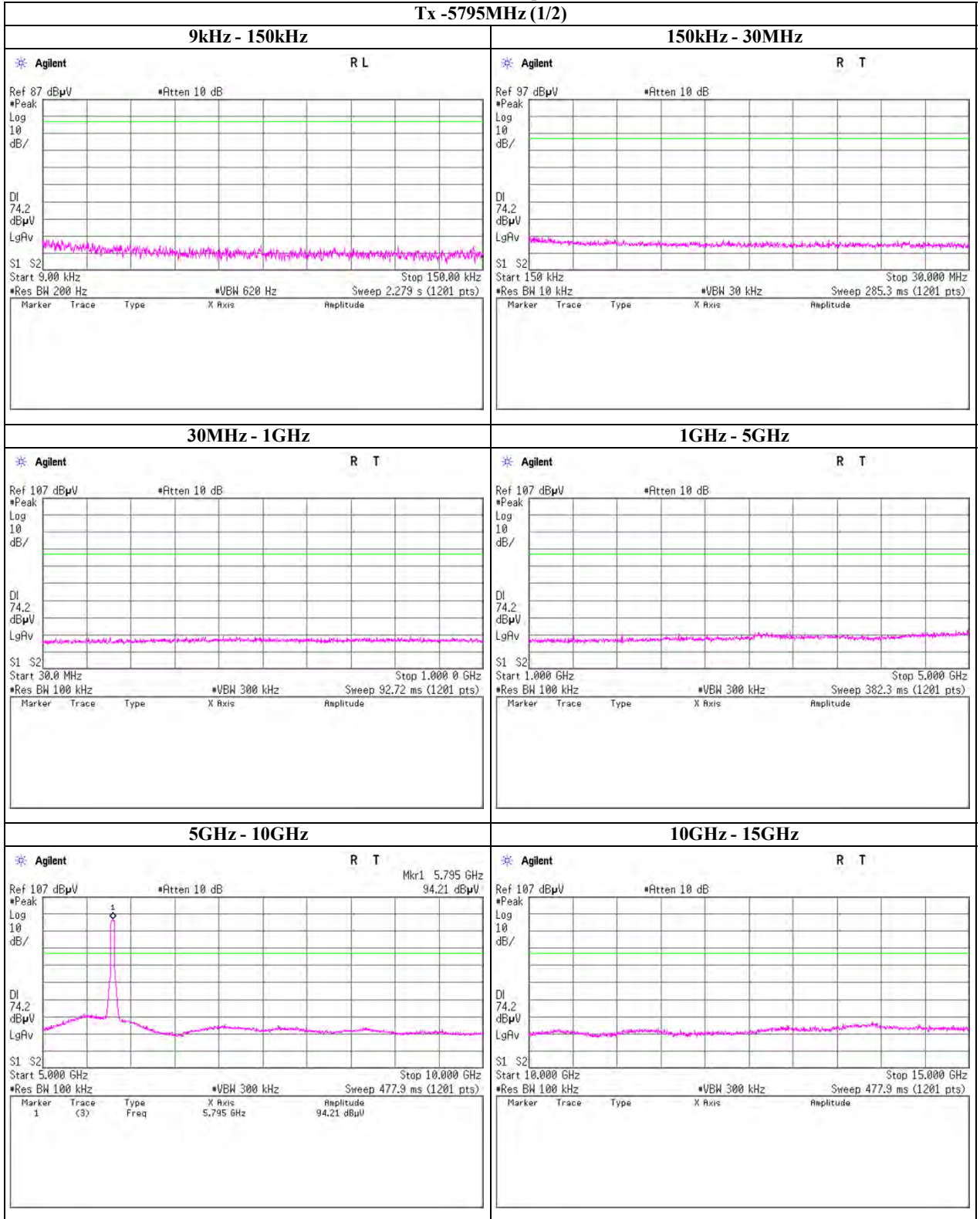
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT40), worst antenna port , worst data mode 5(MCS)

Tx -5795MHz (1/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

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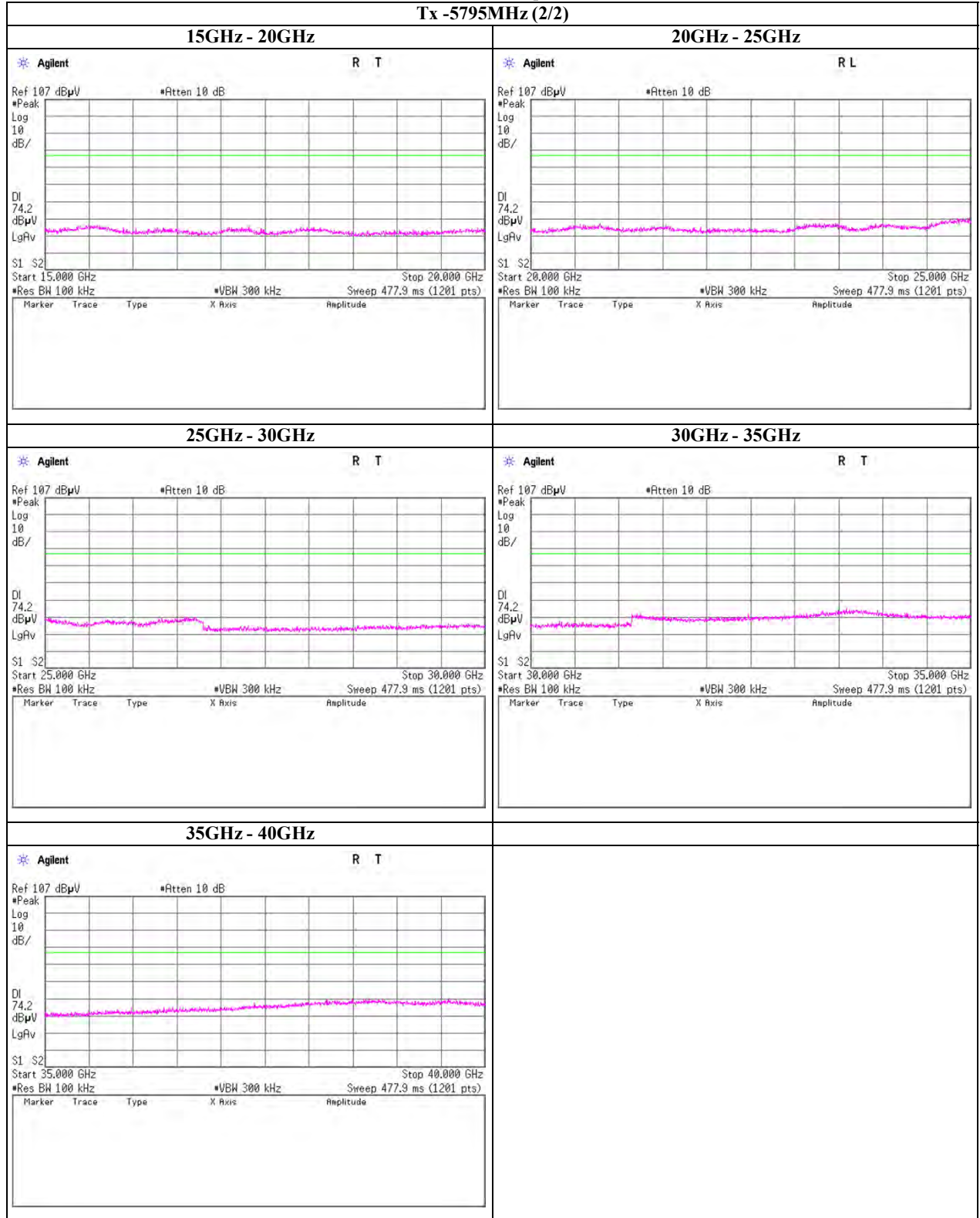
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

### Spurious emission (Conducted)

Tx, IEEE802.11n (HT40), worst antenna port , worst data mode 5(MCS)

Tx -5795MHz (2/2)



**UL Japan, Inc.**

**Shonan EMC Lab.**

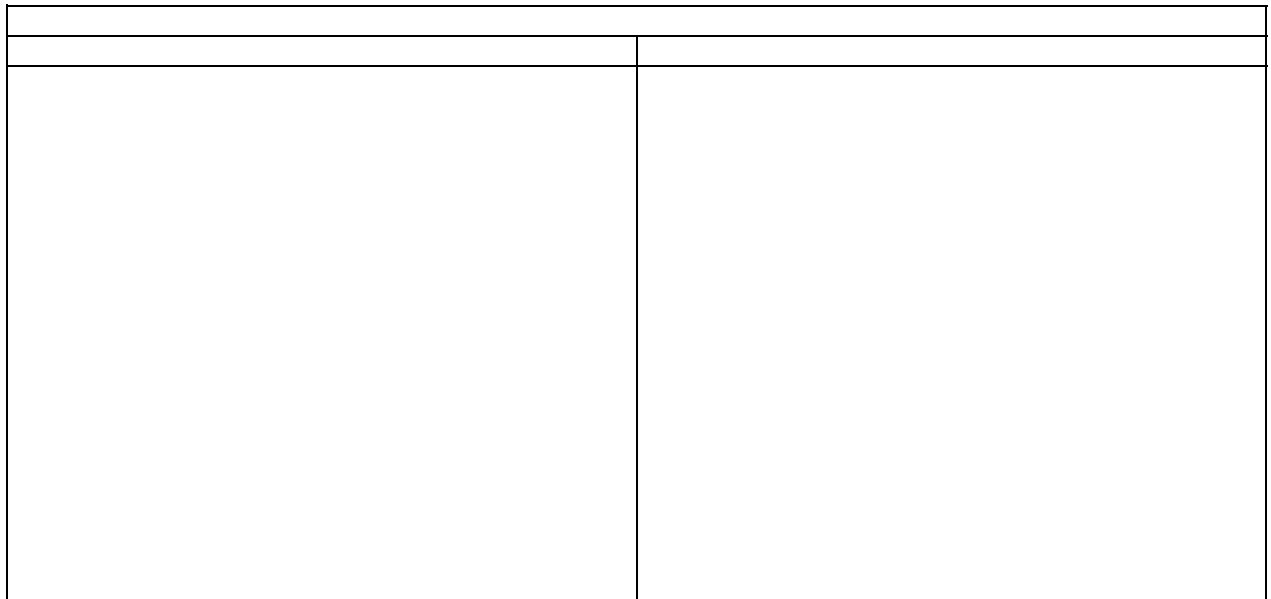
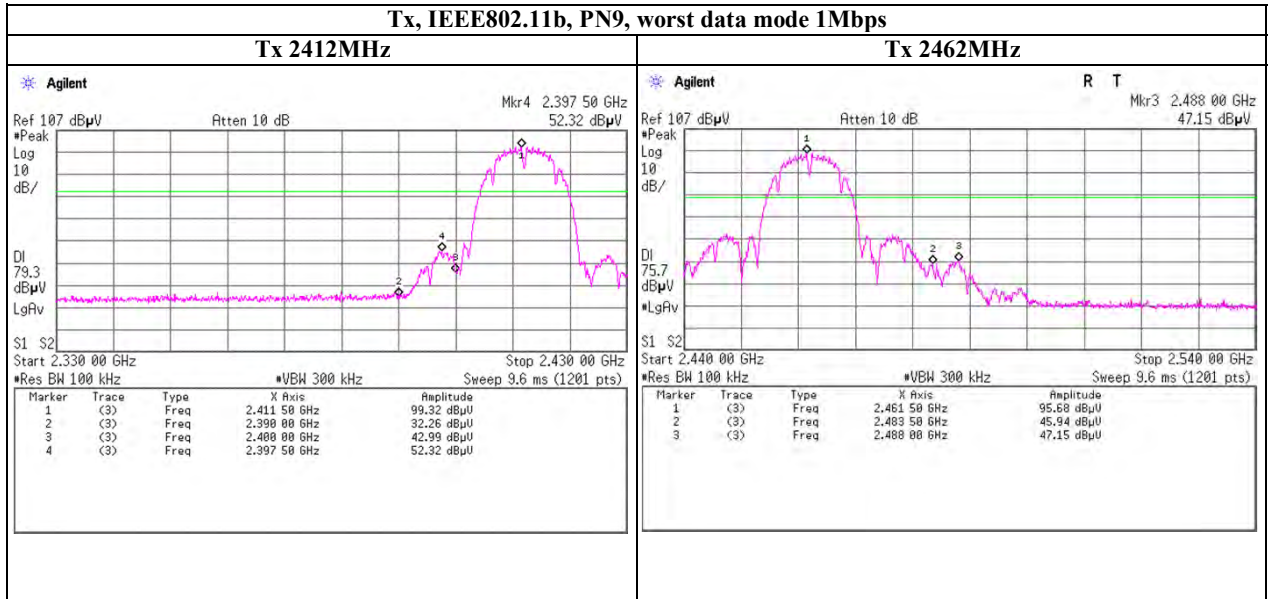
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

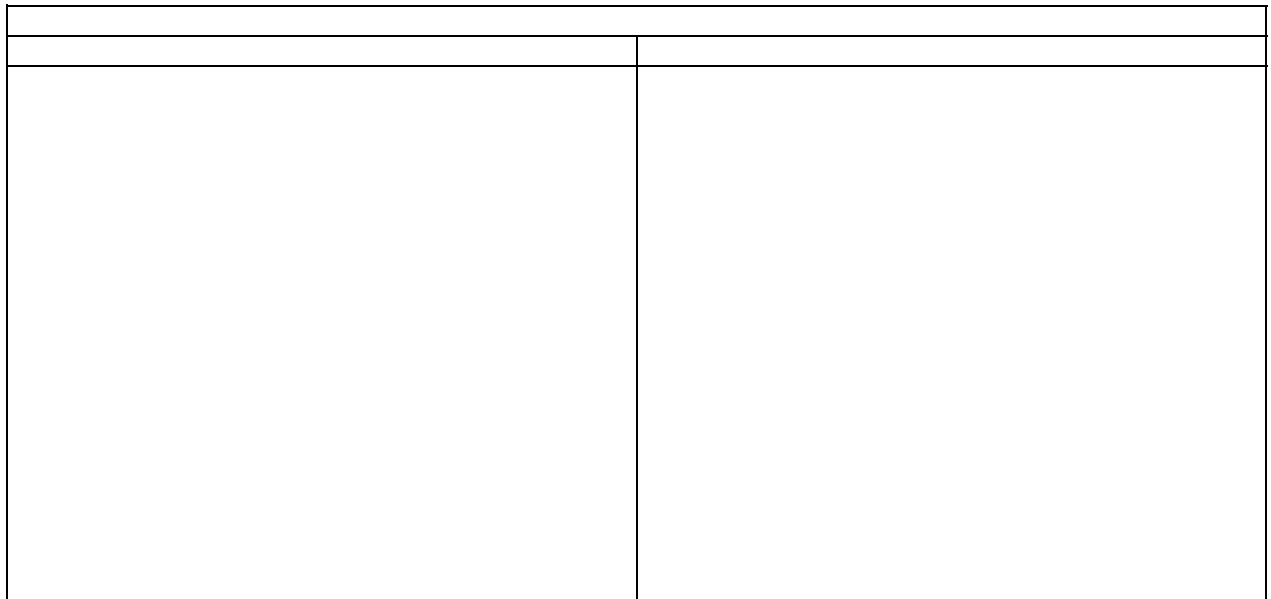
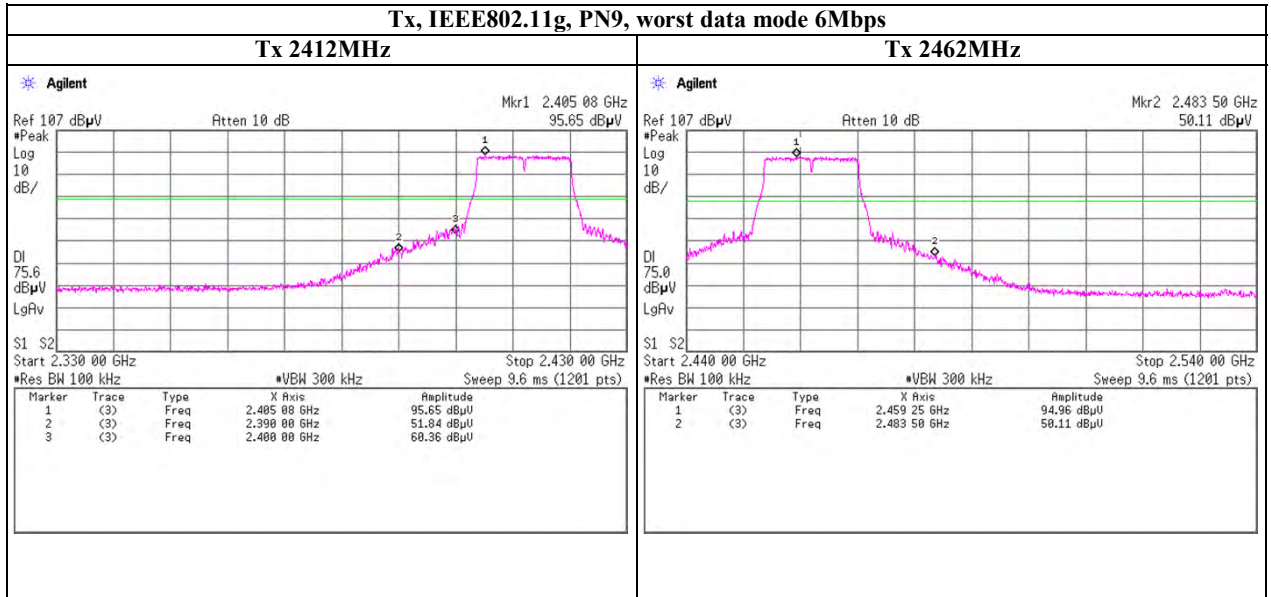
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

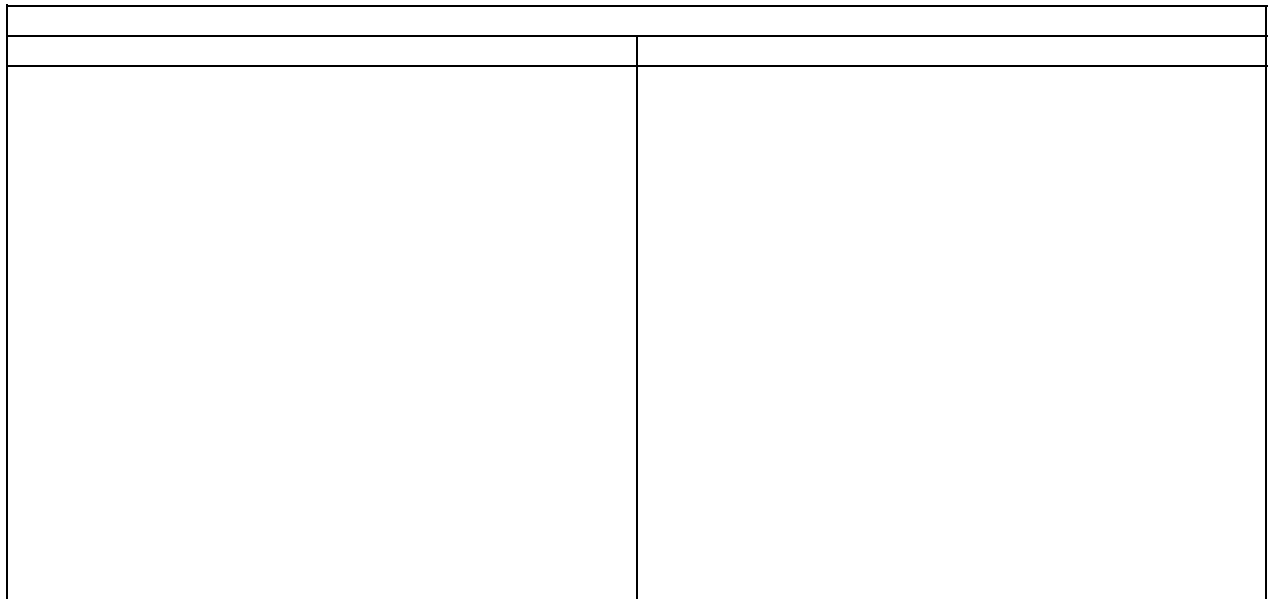
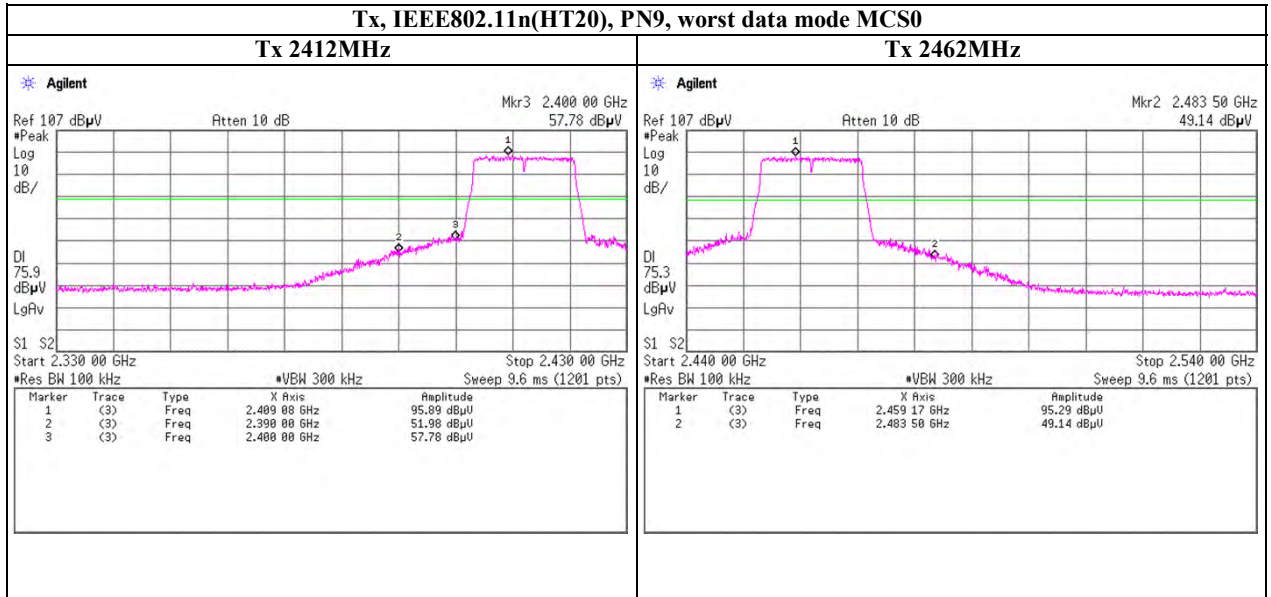
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401



## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

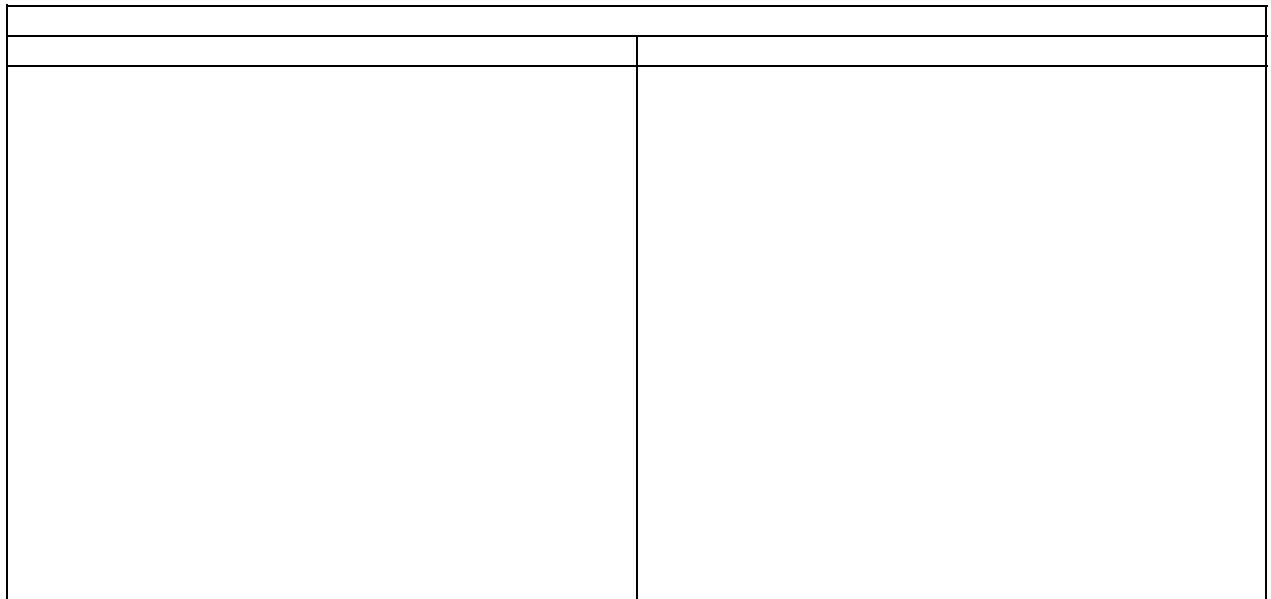
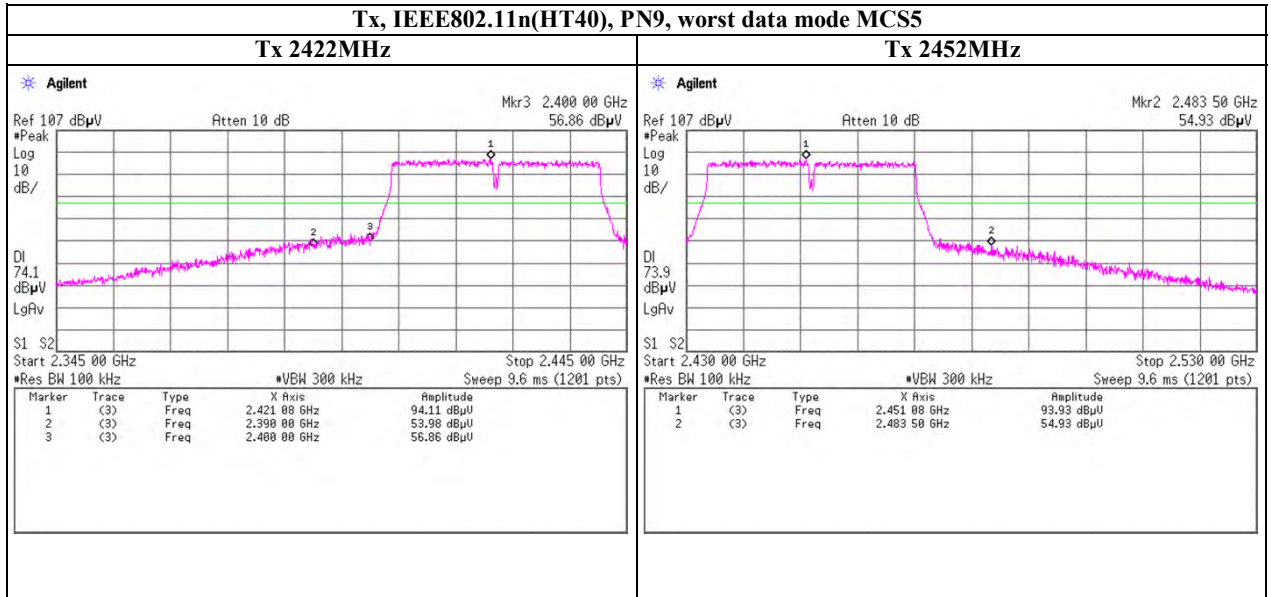
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

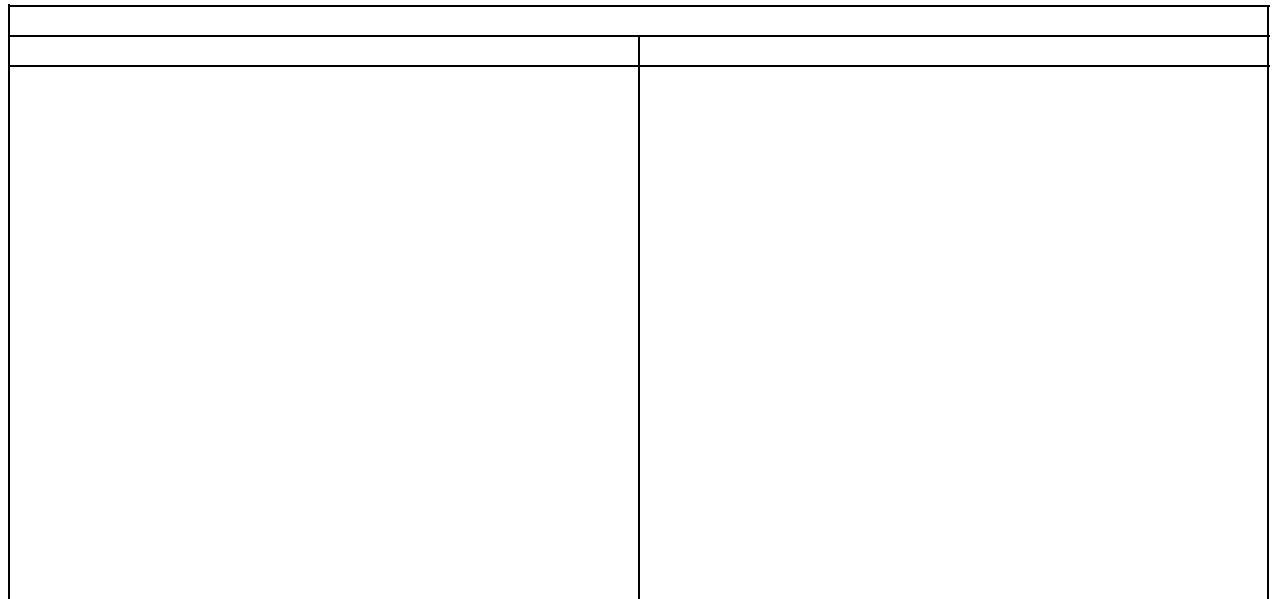
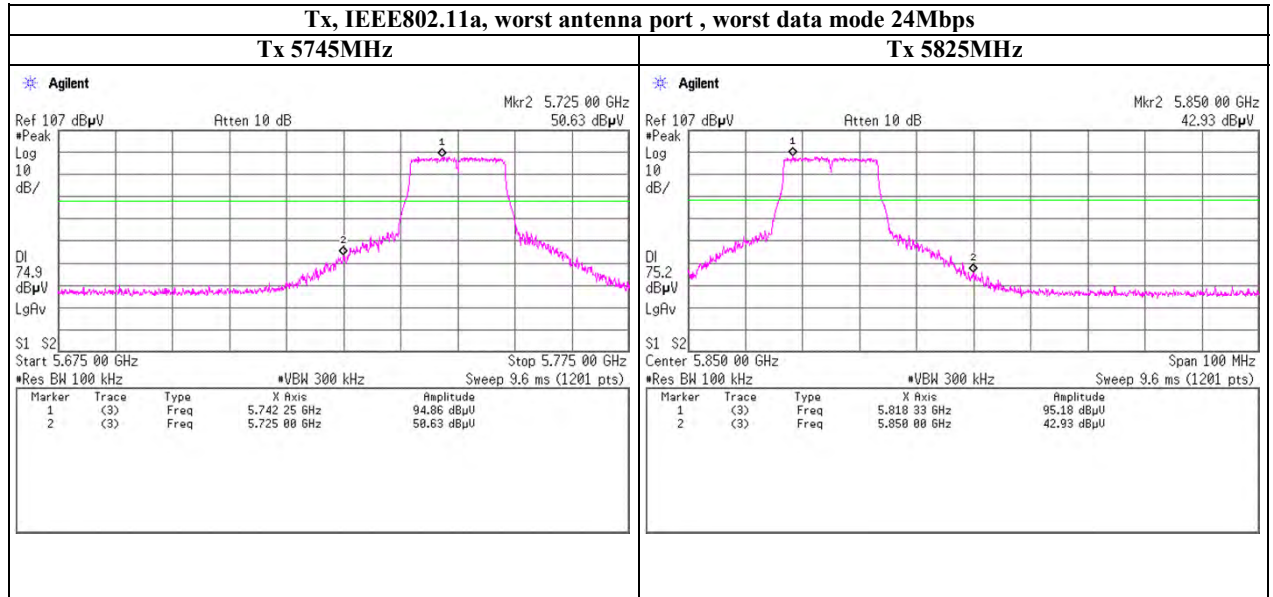
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

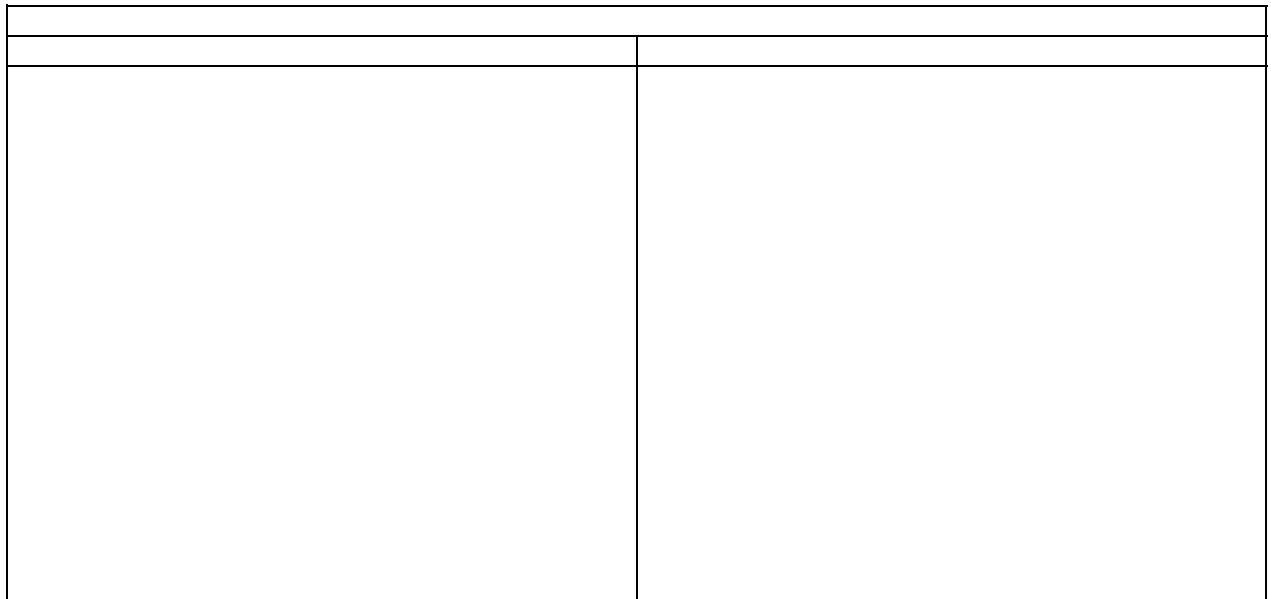
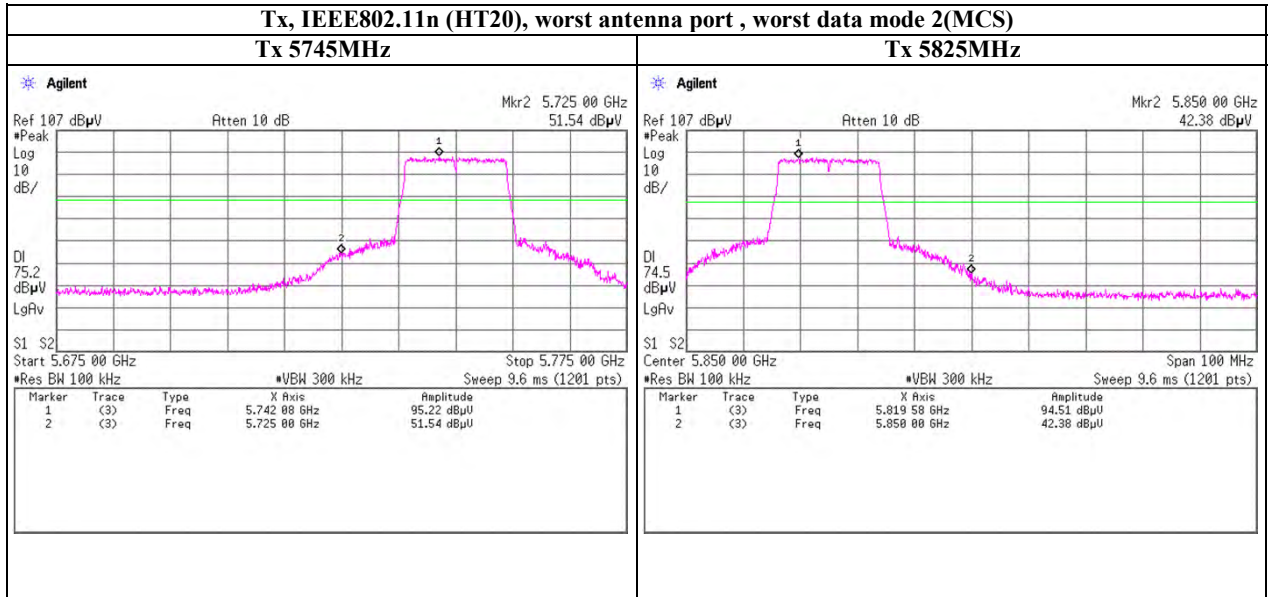
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



**UL Japan, Inc.**

**Shonan EMC Lab.**

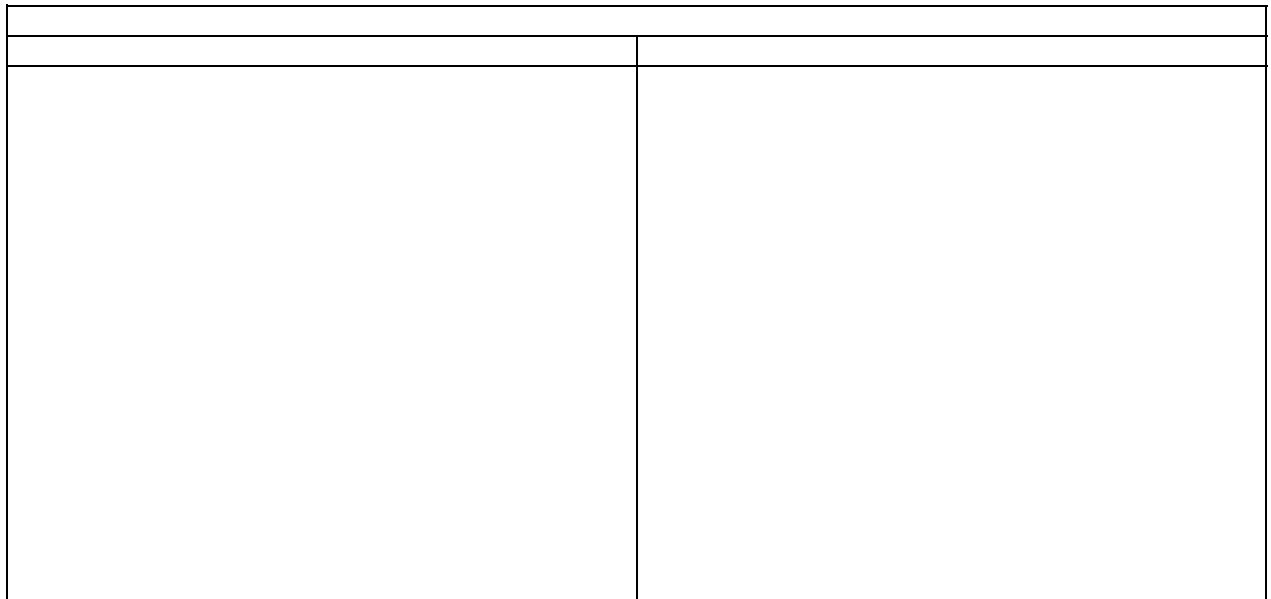
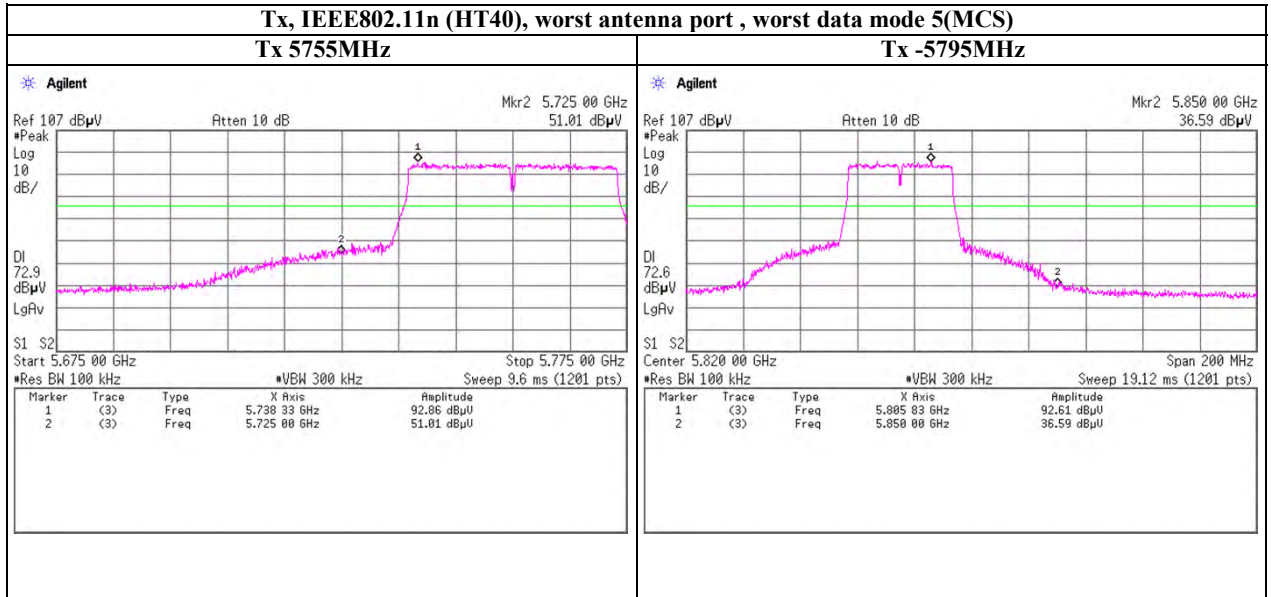
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

## Spurious emission (Conducted)

### Band Edge compliance



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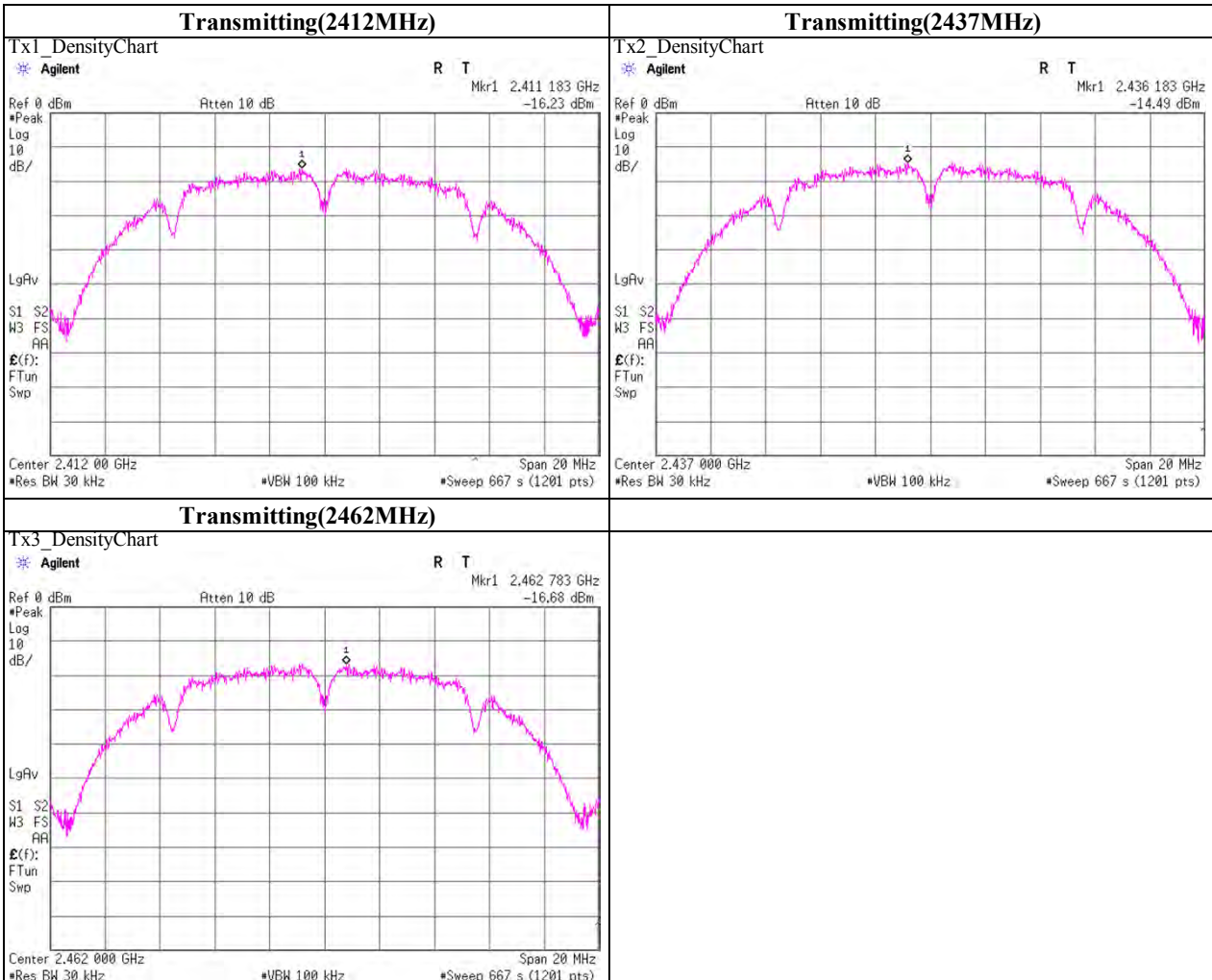
### Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	June 15, 2011	
Temperature / Humidity	22deg.C , 47%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11b, PN9, worst data mode 1Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2411.18	-16.23	0.94	9.57	-5.71	8.00	13.71
2437.0000	2436.18	-14.49	0.95	9.57	-3.97	8.00	11.97
2462.0000	2462.78	-16.68	0.95	9.57	-6.16	8.00	14.16

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



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

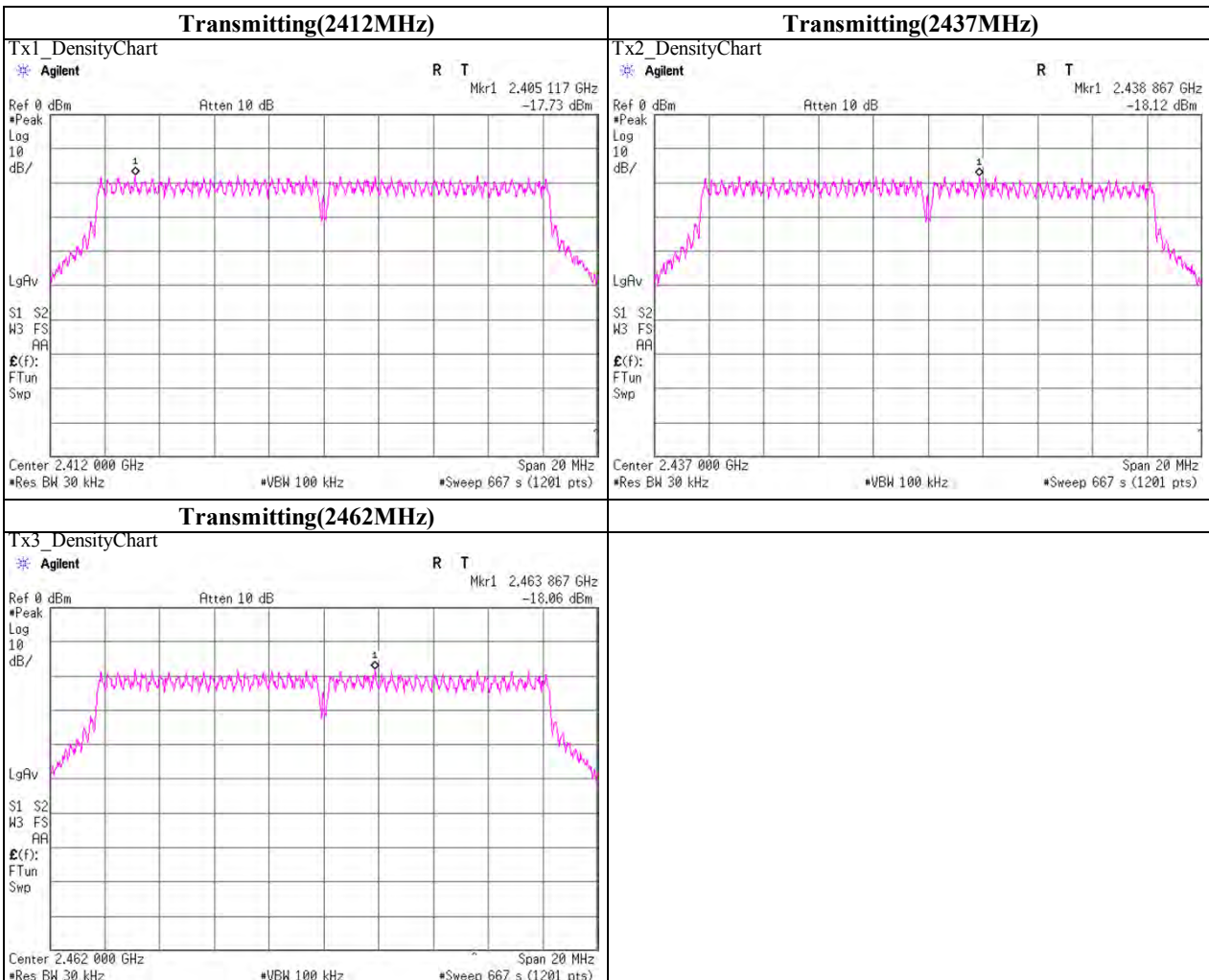
## Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	June 15, 2011	
Temperature / Humidity	22deg.C , 47%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11g, PN9, worst data mode 6Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2405.12	-17.73	0.94	9.57	-7.21	8.00	15.21
2437.0000	2438.87	-18.12	0.95	9.57	-7.60	8.00	15.60
2462.0000	2463.87	-18.06	0.95	9.57	-7.54	8.00	15.54

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



**UL Japan, Inc.**

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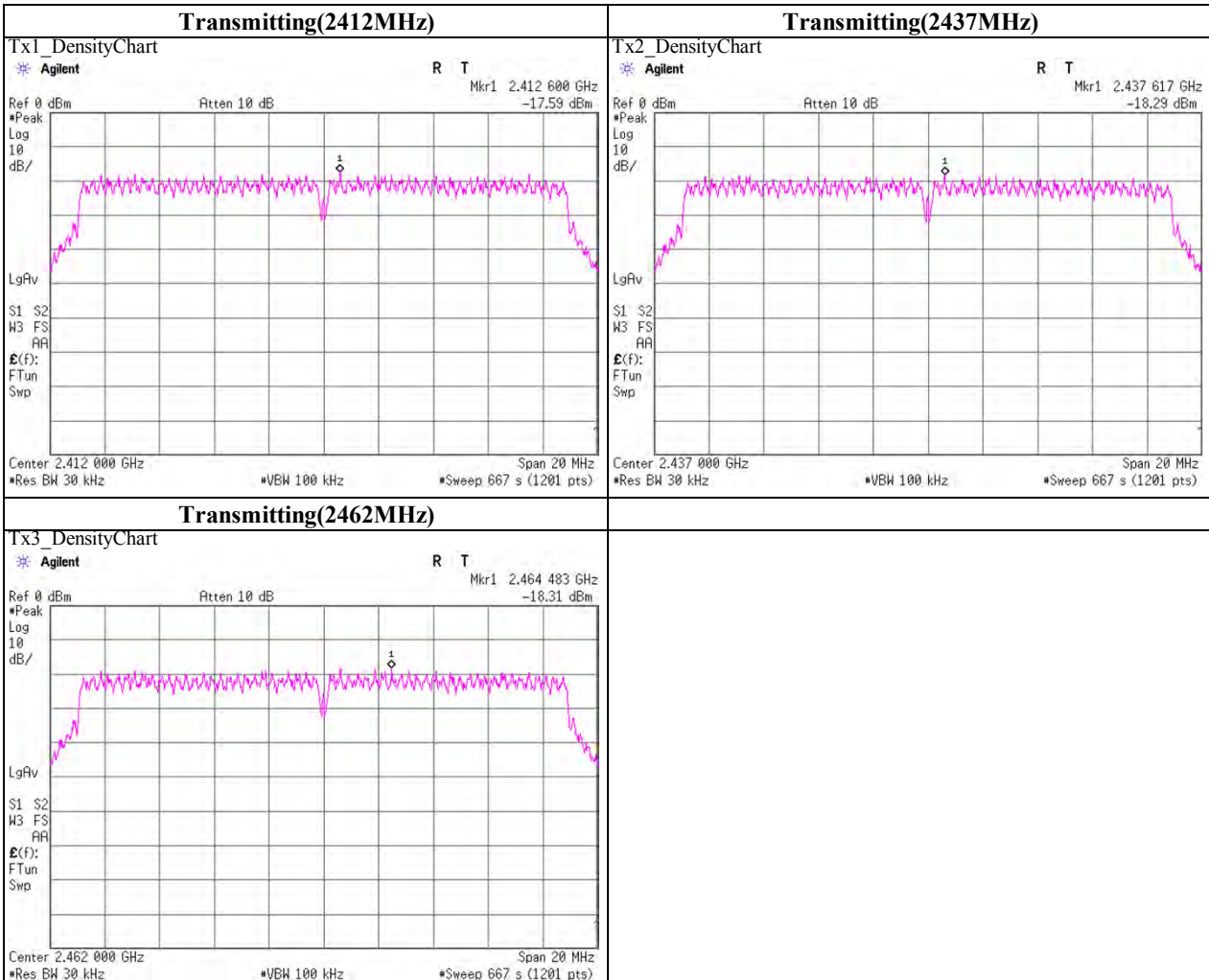
## Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	June 14, 2011	
Temperature / Humidity	22deg.C , 46%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n(HT20), PN9, worst data mode MCS0	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2412.0000	2412.60	-17.59	0.94	9.57	-7.07	8.00	15.07
2437.0000	2437.62	-18.29	0.95	9.57	-7.77	8.00	15.77
2462.0000	2464.48	-18.31	0.95	9.57	-7.79	8.00	15.79

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



**UL Japan, Inc.**

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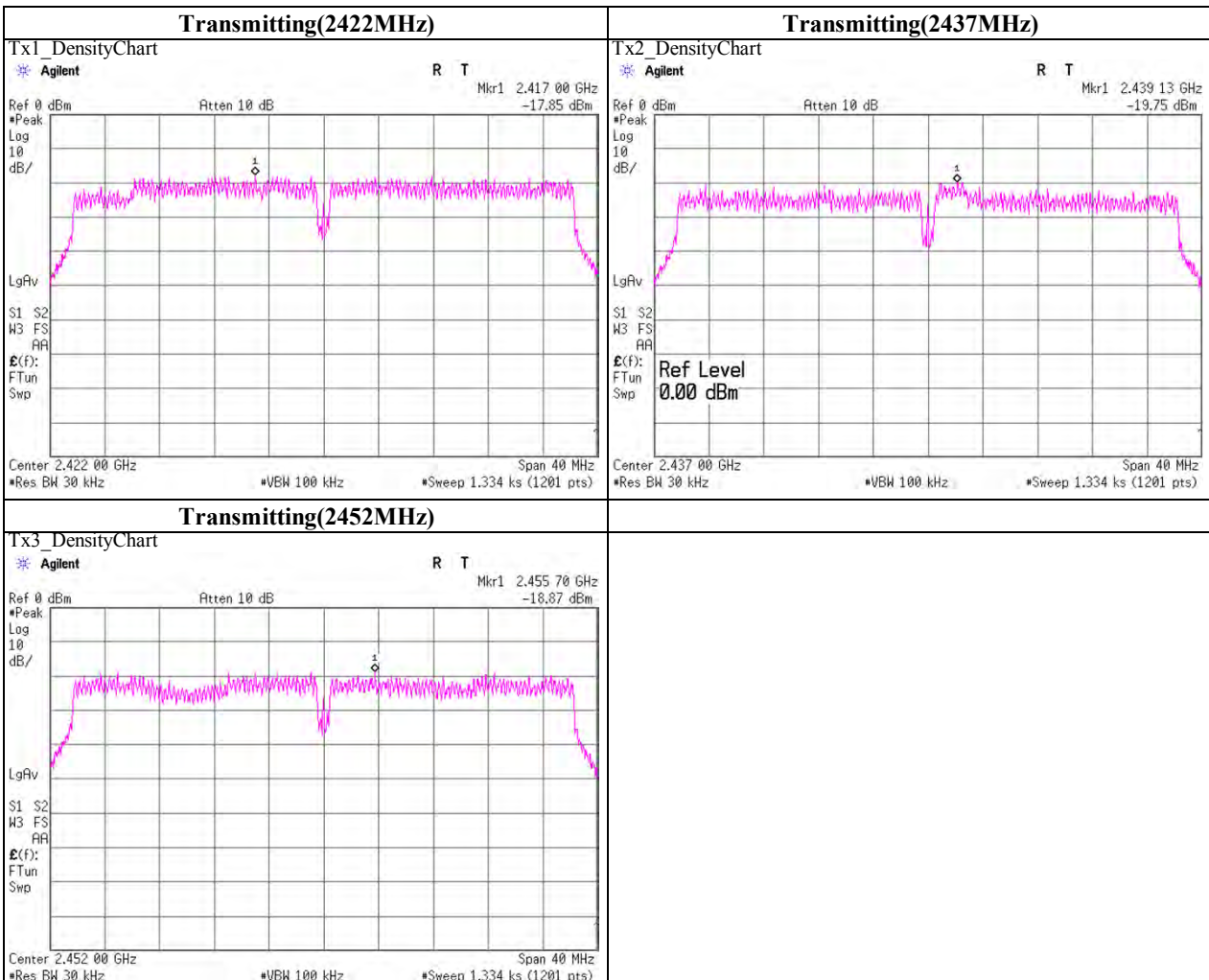
## Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	June 15, 2011	
Temperature / Humidity	22deg.C , 47%RH	
Engineer	Akio Hayashi	
Mode	Tx, IEEE802.11n(HT40), PN9, worst data mode MCS5	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2422.0000	2417.00	-17.85	0.95	9.57	-7.33	8.00	15.33
2437.0000	2439.13	-19.75	0.95	9.57	-9.23	8.00	17.23
2452.0000	2455.70	-18.87	0.95	9.57	-8.35	8.00	16.35

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



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

## Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.6 Shielded Room
Date	2011/6/9	
Temperature / Humidity	26deg.C , 62%RH	
Engineer	Makoto Hosaka	
Mode	Tx, IEEE802.11a, PN9, worst antenna port , worst data mode 24Mbps	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5740.00	-15.00	2.01	9.60	-3.39	8.00	11.39
5785.0000	5787.50	-15.42	2.01	9.61	-3.80	8.00	11.80
5825.0000	5826.90	-16.50	2.02	9.62	-4.86	8.00	12.86

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



**UL Japan, Inc.**

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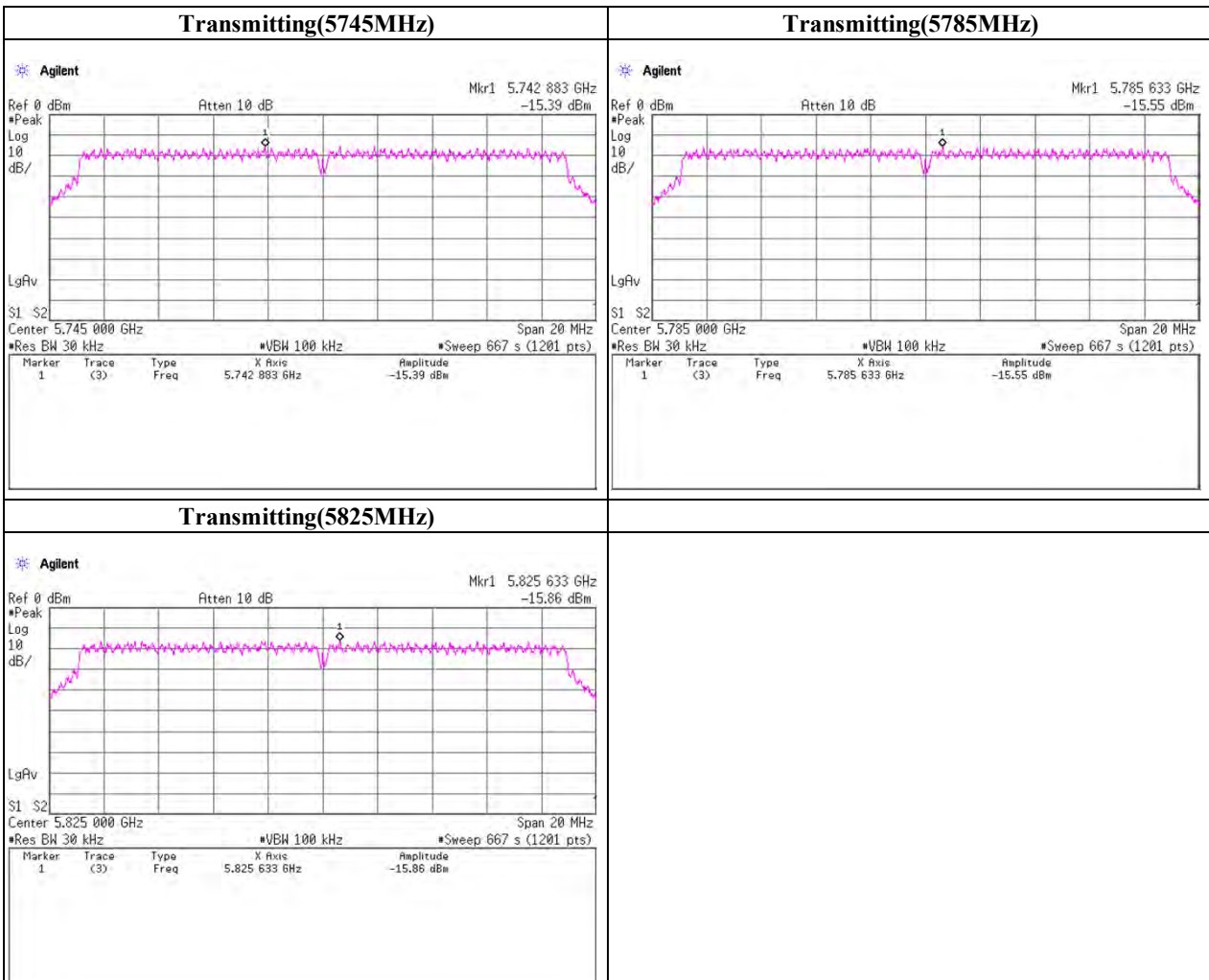
## Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.6 Shielded Room
Date	2011/6/9	
Temperature / Humidity	26deg.C , 62%RH	
Engineer	Makoto Hosaka	
Mode	Tx, IEEE802.11n (HT20), PN9, worst antenna port , worst data mode 2(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5745.0000	5742.88	-15.39	2.01	9.60	-3.78	8.00	11.78
5785.0000	5785.63	-15.55	2.01	9.61	-3.93	8.00	11.93
5825.0000	5825.63	-15.86	2.02	9.62	-4.22	8.00	12.22

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



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### Power Density

Test place	UL Japan, Inc. Shonan EMC Lab.	No.6 Shielded Room
Date	2011/6/9	
Temperature / Humidity	26deg.C , 62%RH	
Engineer	Makoto Hosaka	
Mode	Tx, IEEE802.11n (HT40), PN9, worst antenna port , worst data mode 5(MCS)	

Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
5755.0000	5750.00	-18.12	2.01	9.61	-6.50	8.00	14.50
5795.0000	5778.73	-17.65	2.01	9.61	-6.03	8.00	14.03
-	-	-	-	-	-	-	-

Sample Calculation:

Result = Reading + Cable Loss (supplied by customer) + Atten. Loss



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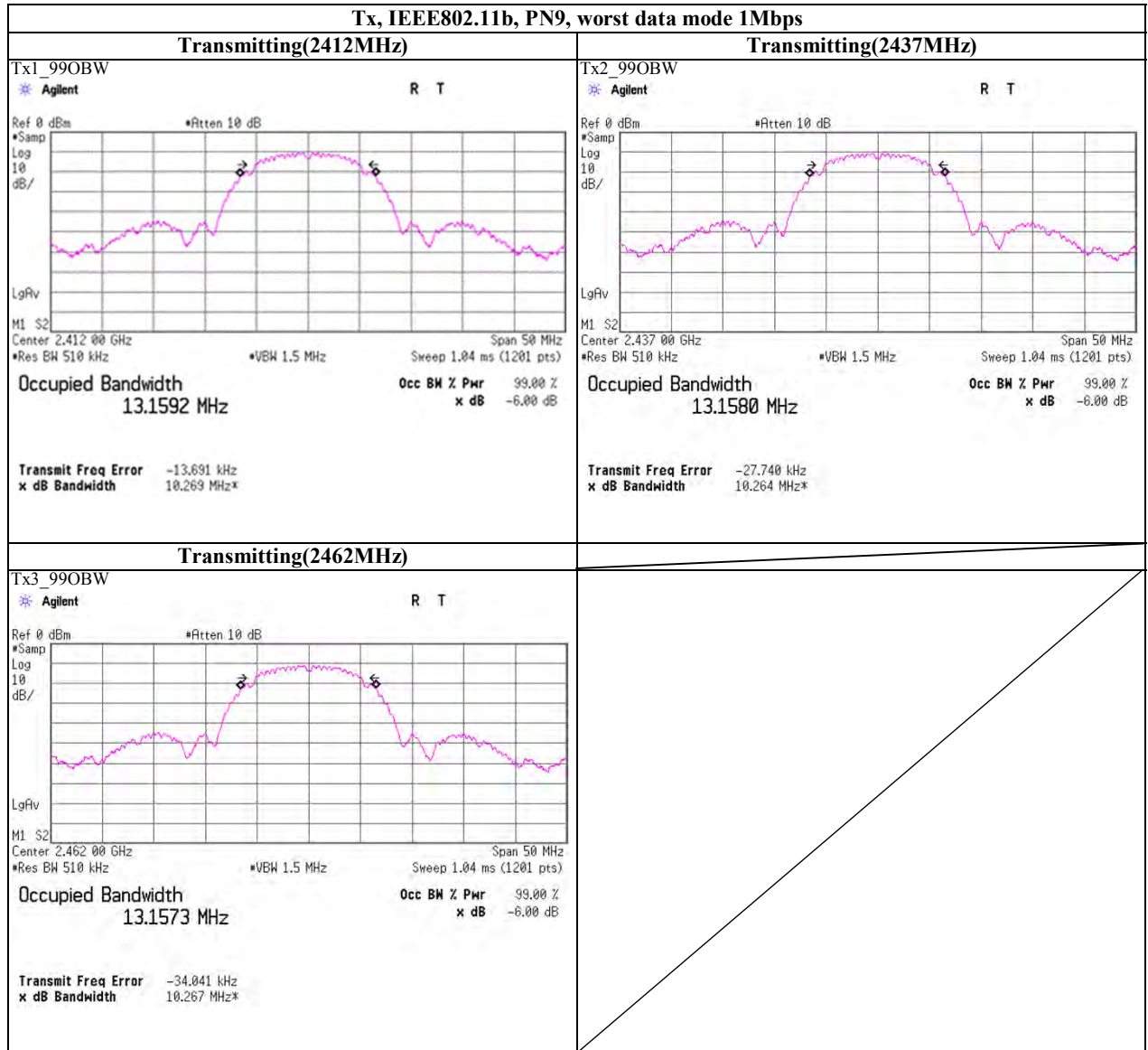
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**99% Occupied Bandwidth**



**UL Japan, Inc.**

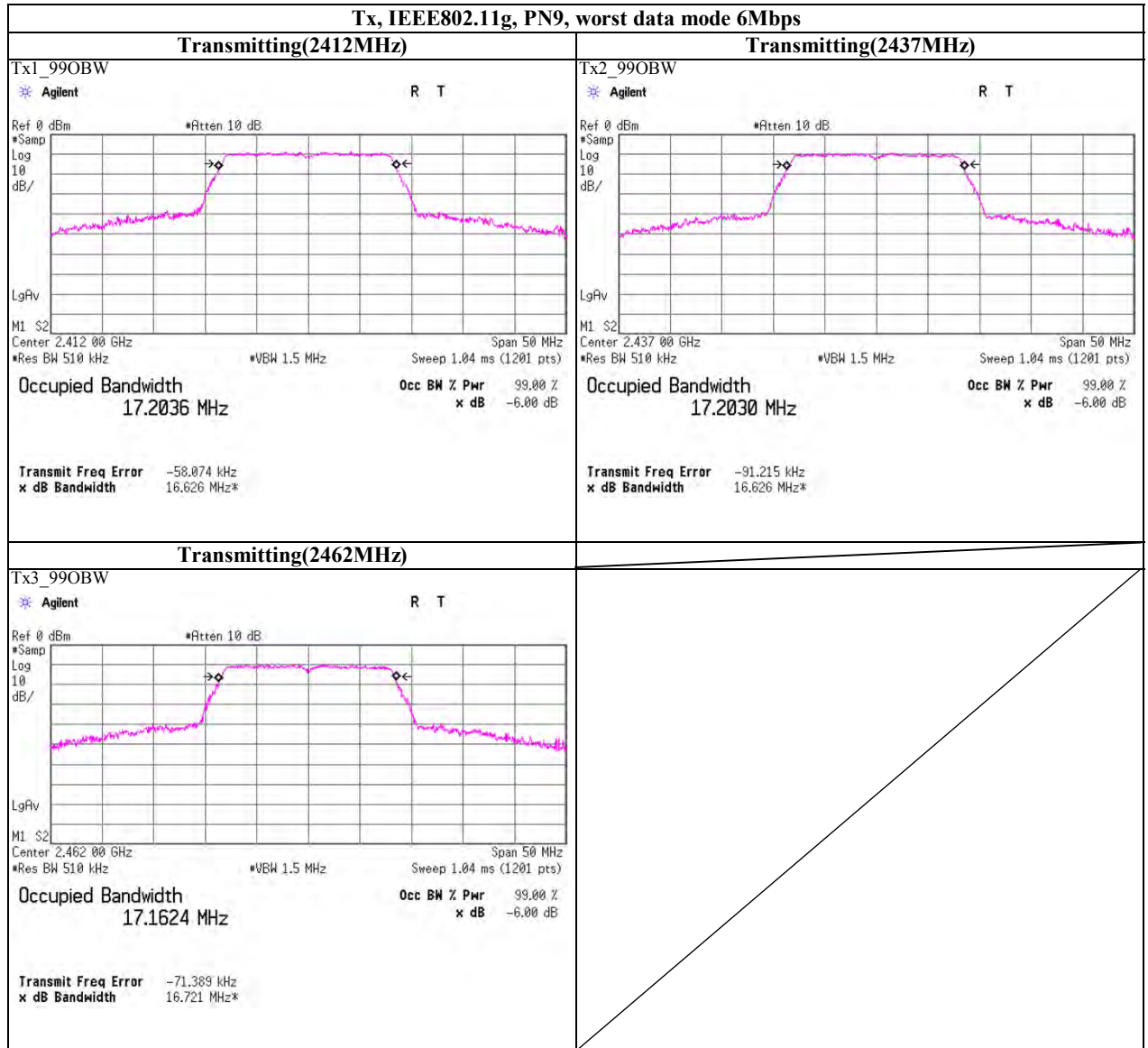
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**99% Occupied Bandwidth**



**UL Japan, Inc.**

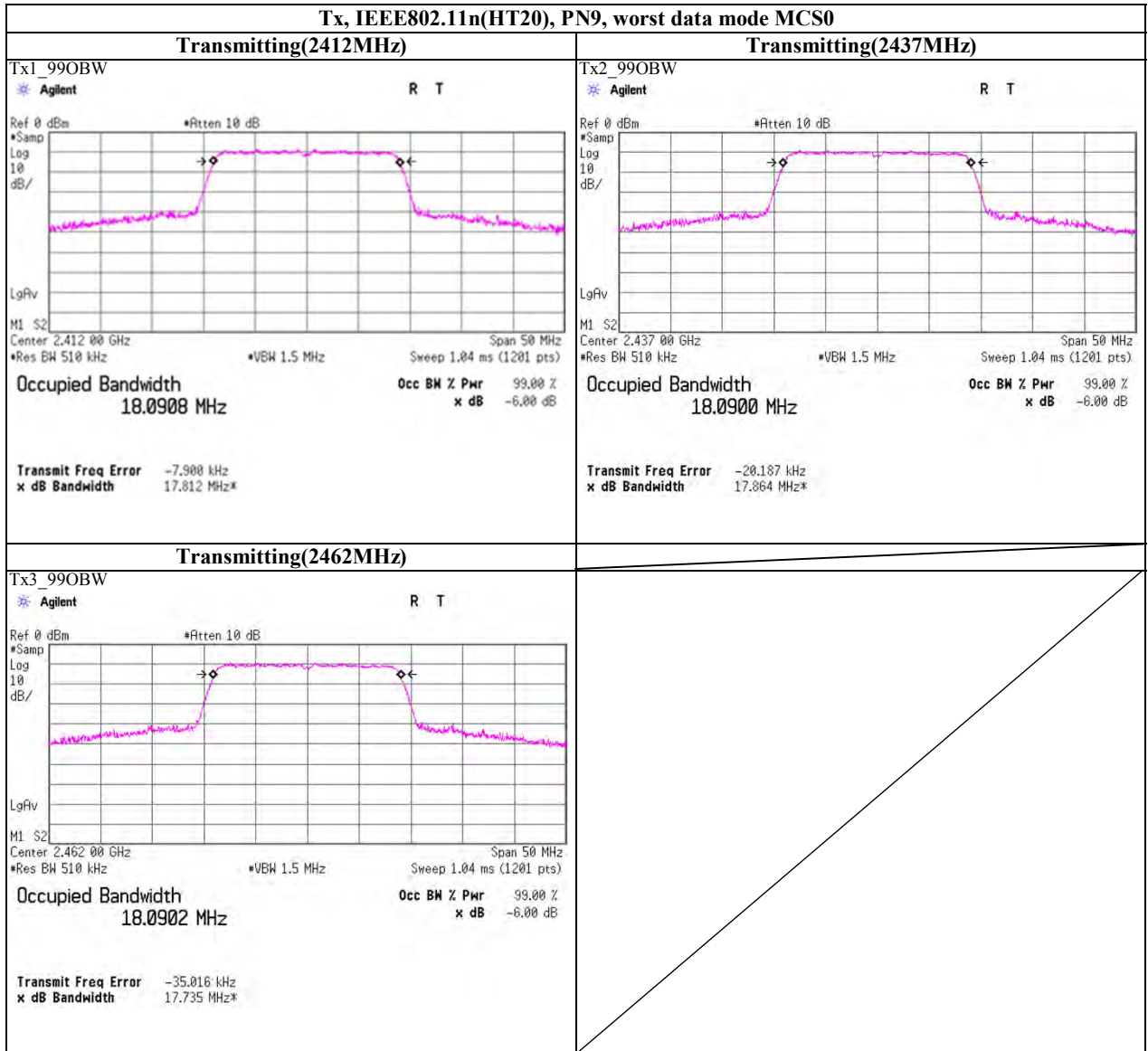
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## 99% Occupied Bandwidth



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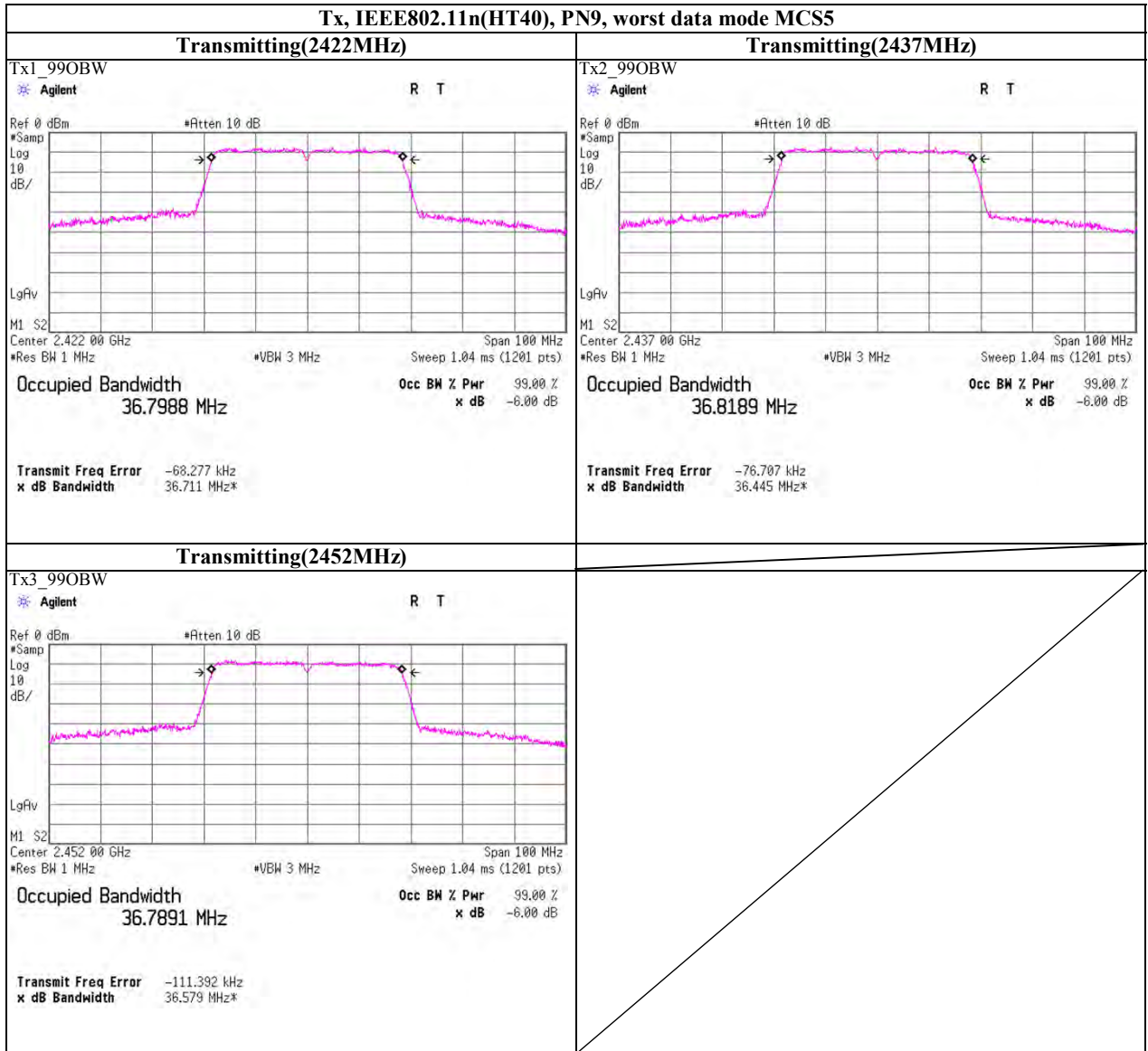
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## 99% Occupied Bandwidth



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**Shonan EMC Lab.**

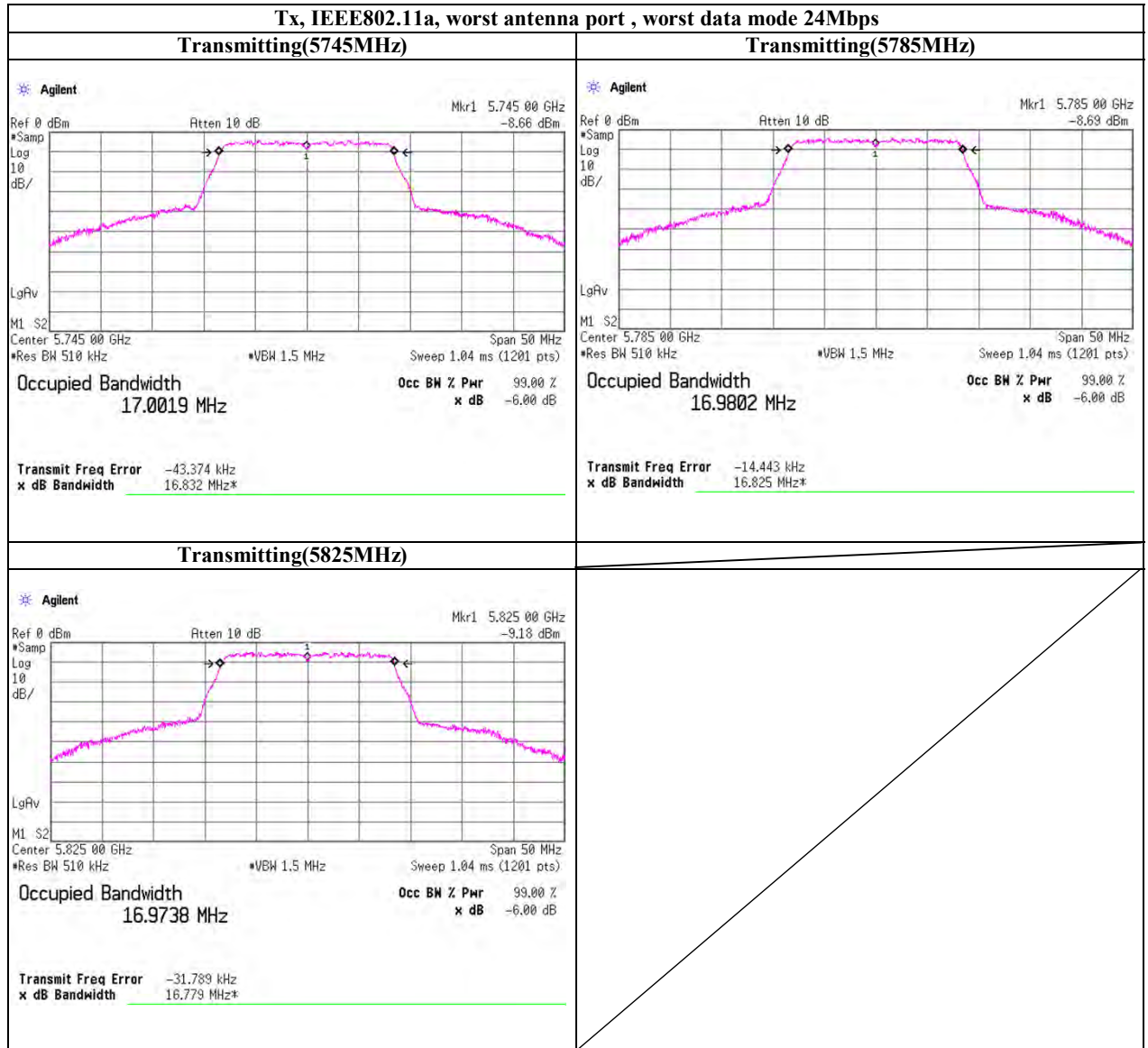
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN

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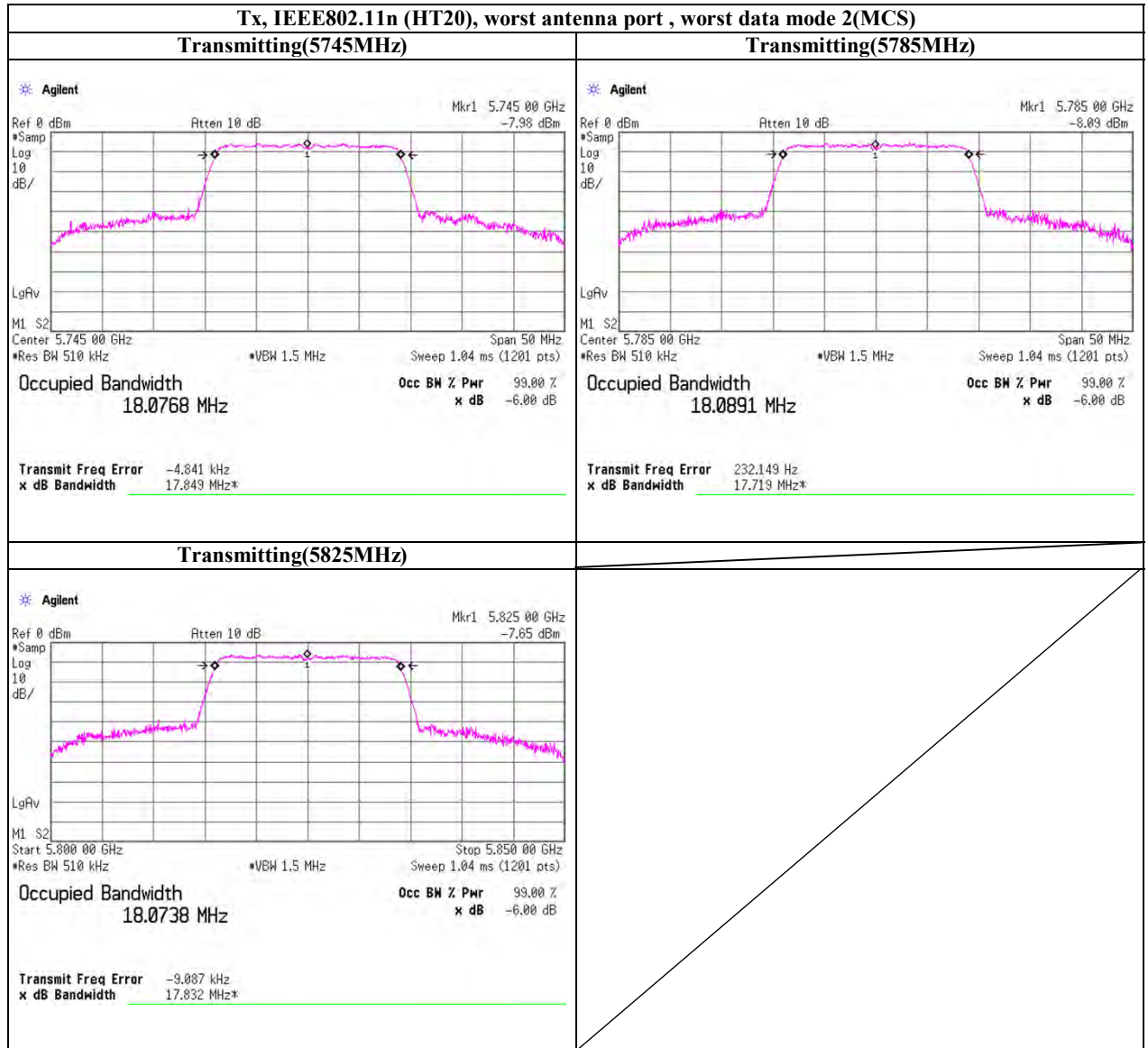


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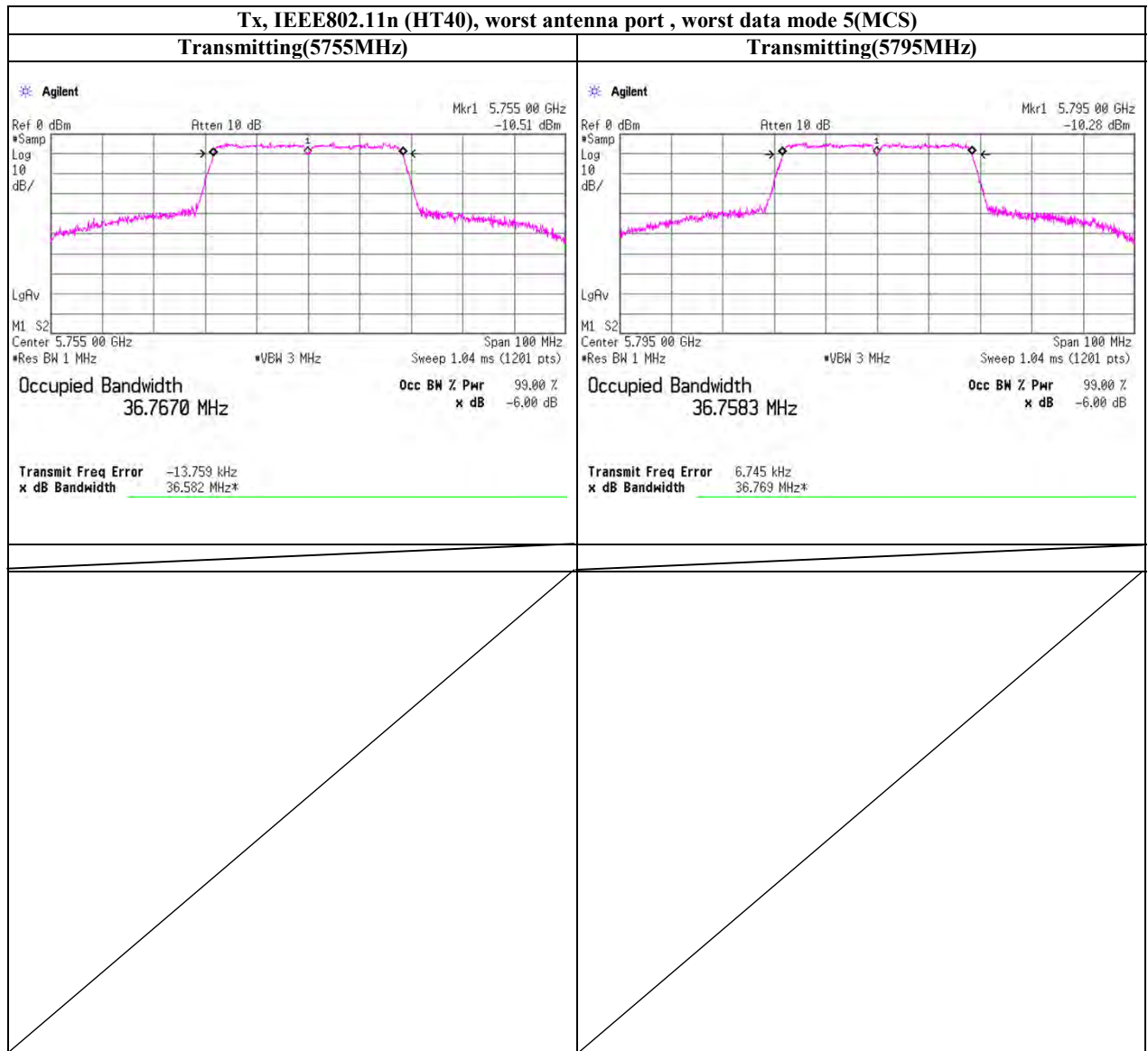
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### APPENDIX 3 Test Instruments

#### 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
SAT10-06	Attenuator	Agilent	8493C-010	74865	RE	2011/03/23 * 12
SFL-03	Highpass Filter	MICRO-TRONICS	HPM50112	028	RE	2010/12/15 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	004	RE	2011/04/21 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	2011/03/07 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2010/12/15 * 12
SAF-05	Pre Amplifier	TOYO Corporation	TPA0118-36	1440490	RE	2011/03/23 * 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 traceable 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

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#### 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 .

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