

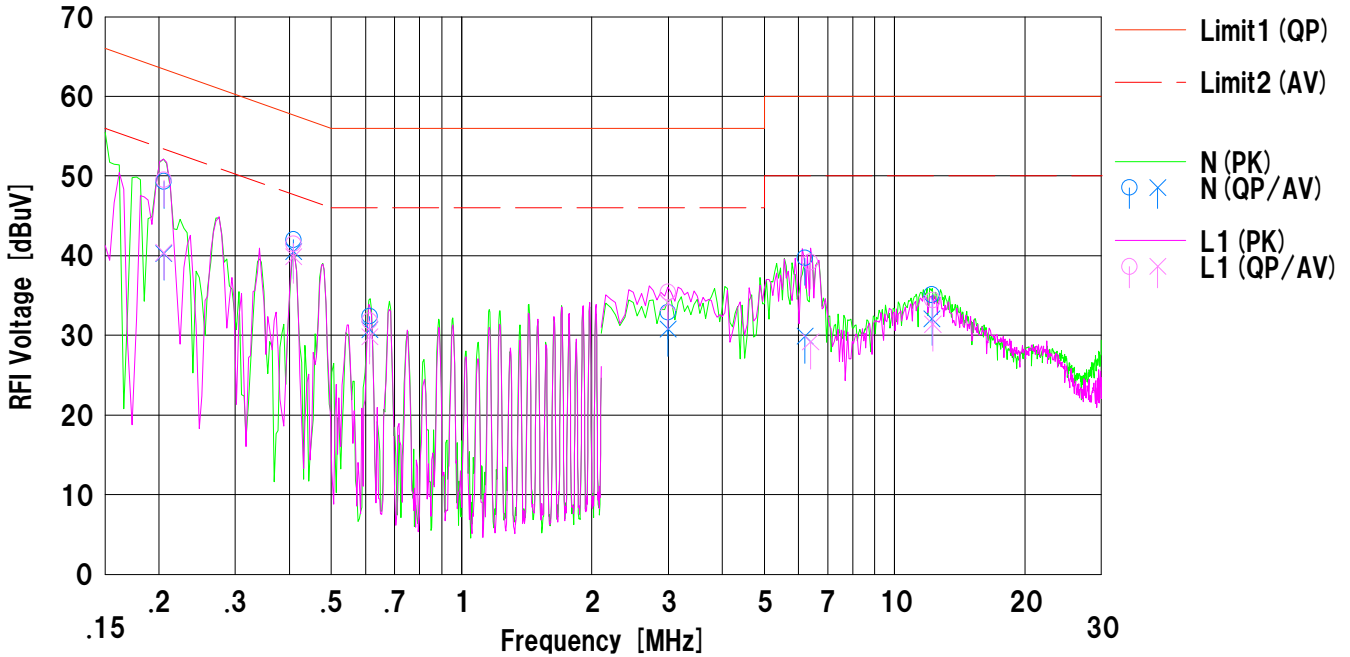
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2013/01/15

Company : SMK Corporation Kind of EUT : ZigBee RF4CE-compatible RF receiver Model No. : SSR-RFNANO Serial No. : 3 Remarks :	Mode : Transmitting (2425MHz) Report No. : 33CE0139-SH-02-A Power : DC5V (Host PC: AC120V / 60Hz) Temp./Humi. : 24deg.C / 29%RH
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Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.20549	36.7	27.7	12.6	49.3	40.3	63.3	53.3	14.0	13.0	N	
2	0.40931	29.4	27.9	12.6	42.0	40.5	57.6	47.6	15.6	7.1	N	
3	0.61332	19.7	18.0	12.7	32.4	30.7	56.0	46.0	23.6	15.3	N	
4	2.99693	20.2	18.1	12.7	32.9	30.8	56.0	46.0	23.1	15.2	N	
5	6.20463	26.8	17.0	12.9	39.7	29.9	60.0	50.0	20.3	20.1	N	
6	12.20303	22.0	19.0	13.1	35.1	32.1	60.0	50.0	24.9	17.9	N	
7	0.20549	36.9	27.8	12.6	49.5	40.4	63.3	53.3	13.8	12.9	L1	
8	0.40931	28.9	27.3	12.6	41.5	39.9	57.6	47.6	16.1	7.7	L1	
9	0.61332	19.1	17.1	12.7	31.8	29.8	56.0	46.0	24.2	16.2	L1	
10	2.99693	22.7	21.4	12.7	35.4	34.1	56.0	46.0	20.6	11.9	L1	
11	6.39425	26.3	16.3	12.9	39.2	29.2	60.0	50.0	20.8	20.8	L1	
12	12.25174	21.3	18.3	13.1	34.4	31.4	60.0	50.0	25.6	18.6	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-05

DATA OF CONDUCTED EMISSION TEST

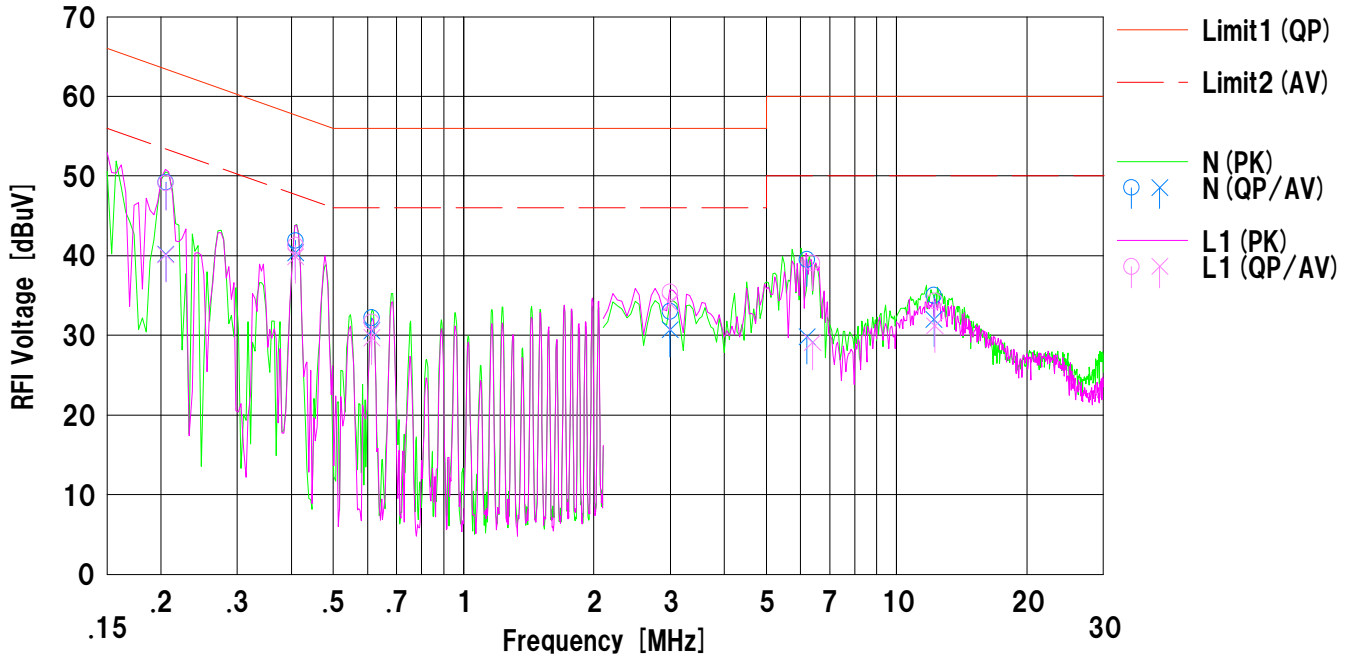
UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2013/01/15

Company : SMK Corporation
Kind of EUT : ZigBee RF4CE-compatible RF receiver
Model No. : SSR-RFNANO
Serial No. : 3
Remarks :

Mode : Transmitting (2450MHz)
Report No. : 33CE0139-SH-02-A
Power : DC5V (Host PC: AC120V / 60Hz)
Temp./Humi. : 24deg.C / 29%RH

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.20548	36.6	27.6	12.6	49.2	40.2	63.3	53.3	14.1	13.1	N	
2	0.40930	29.3	27.8	12.6	41.9	40.4	57.6	47.6	15.7	7.2	N	
3	0.61331	19.5	17.9	12.7	32.2	30.6	56.0	46.0	23.8	15.4	N	
4	2.99692	20.3	18.0	12.7	33.0	30.7	56.0	46.0	23.0	15.3	N	
5	6.20468	26.6	16.9	12.9	39.5	29.8	60.0	50.0	20.5	20.2	N	
6	12.20306	21.9	18.9	13.1	35.0	32.0	60.0	50.0	25.0	18.0	N	
7	0.20548	36.5	27.5	12.6	49.1	40.1	63.3	53.3	14.2	13.2	L1	
8	0.40930	28.7	27.3	12.6	41.3	39.9	57.6	47.6	16.3	7.7	L1	
9	0.61331	19.0	17.0	12.7	31.7	29.7	56.0	46.0	24.3	16.3	L1	
10	2.99692	22.7	21.3	12.7	35.4	34.0	56.0	46.0	20.6	12.0	L1	
11	6.39426	26.2	16.2	12.9	39.1	29.1	60.0	50.0	20.9	20.9	L1	
12	12.25173	21.2	18.1	13.1	34.3	31.2	60.0	50.0	25.7	18.8	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-05

DATA OF CONDUCTED EMISSION TEST

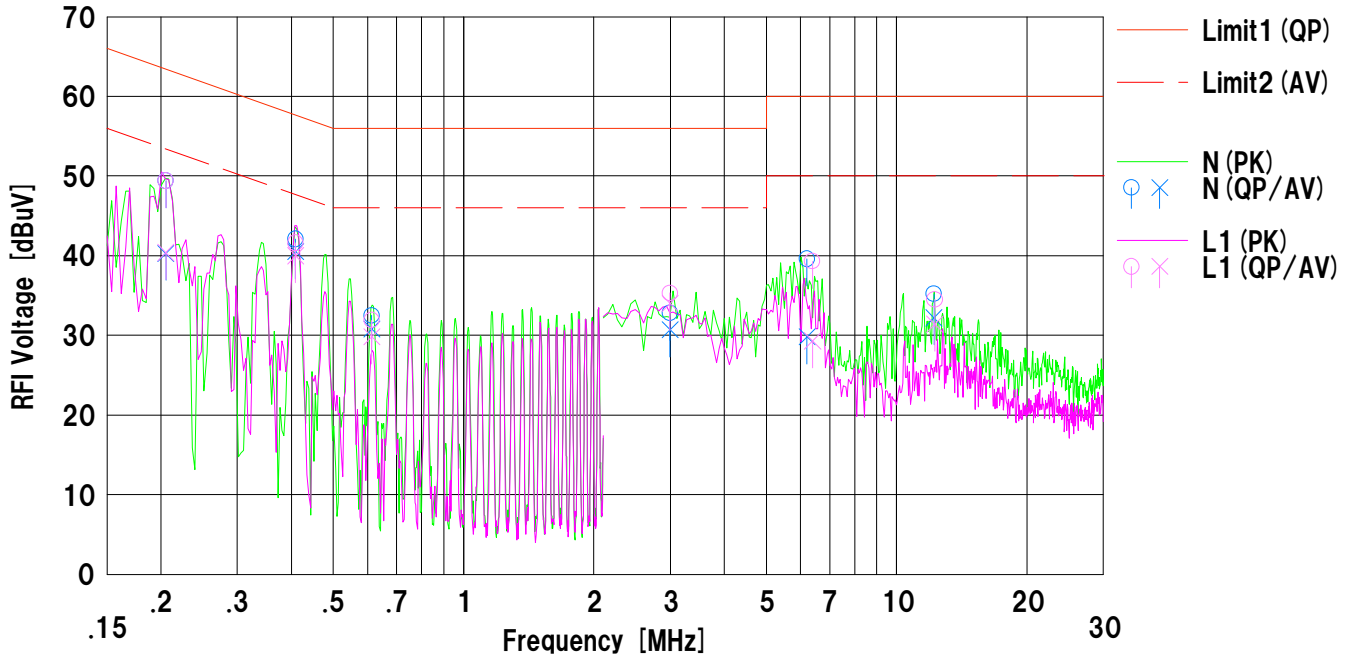
UL Japan,Inc. Shonan EMC Lab. No.3 Shielded Room
Date : 2013/01/15

Company : SMK Corporation
Kind of EUT : ZigBee RF4CE-compatible RF receiver
Model No. : SSR-RFNANO
Serial No. : 3
Remarks :

Mode : Transmitting (2475MHz)
Report No. : 33CE0139-SH-02-A
Power : DC5V (Host PC: AC120V / 60Hz)
Temp./Humi. : 24deg.C / 29%RH

Limit1 : FCC 15C (15.207) QP
Limit2 : FCC 15C (15.207) AV

Engineer : Kenichi Adachi



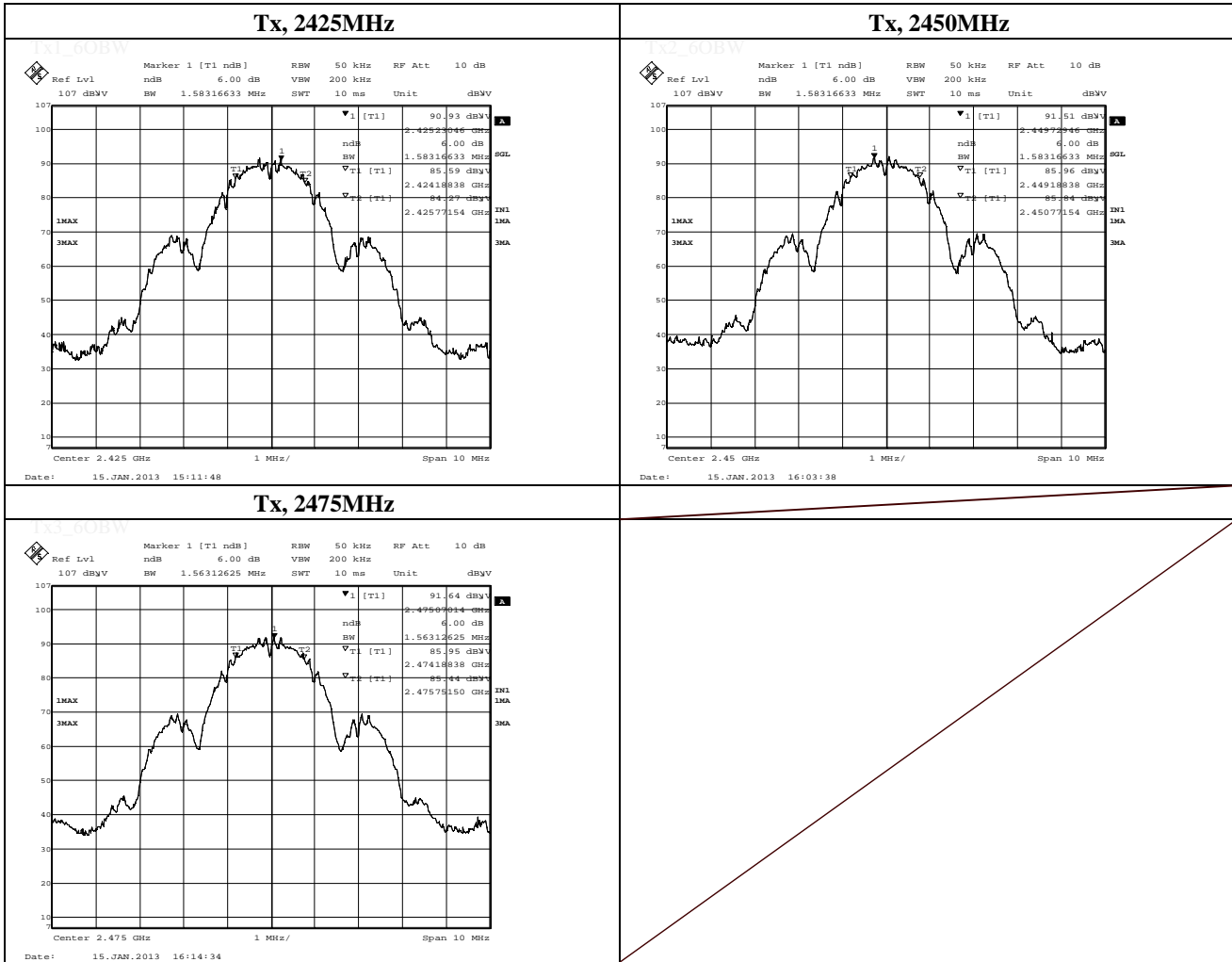
No.	Freq. [MHz]	Reading		C.Fac [dB]	Results		Limit		Margin		Phase	Comment
		<QP> [dBuV]	<AV> [dBuV]		<QP> [dBuV]	<AV> [dBuV]	<QP> [dBuV]	<AV> [dBuV]	<QP> [dB]	<AV> [dB]		
1	0.20550	36.8	27.7	12.6	49.4	40.3	63.3	53.3	13.9	13.0	N	
2	0.40933	29.5	27.9	12.6	42.1	40.5	57.6	47.6	15.5	7.1	N	
3	0.61333	19.8	18.1	12.7	32.5	30.8	56.0	46.0	23.5	15.2	N	
4	2.99694	20.1	18.0	12.7	32.8	30.7	56.0	46.0	23.2	15.3	N	
5	6.20465	26.7	16.9	12.9	39.6	29.8	60.0	50.0	20.4	20.2	N	
6	12.20305	22.1	19.1	13.1	35.2	32.2	60.0	50.0	24.8	17.8	N	
7	0.20550	36.8	27.8	12.6	49.4	40.4	63.3	53.3	13.9	12.9	L1	
8	0.40933	29.0	27.4	12.6	41.6	40.0	57.6	47.6	16.0	7.6	L1	
9	0.61333	19.2	17.1	12.7	31.9	29.8	56.0	46.0	24.1	16.2	L1	
10	2.99694	22.6	21.3	12.7	35.3	34.0	56.0	46.0	20.7	12.0	L1	
11	6.39424	26.4	16.4	12.9	39.3	29.3	60.0	50.0	20.7	20.7	L1	
12	12.25172	21.4	18.3	13.1	34.5	31.4	60.0	50.0	25.5	18.6	L1	

Calculation: Result [dBuV] = Reading [dBuV] + C.Fac (LISN+Cable+ATT) [dB]
LISN: SLS-05

-6dB Bandwidth

Test place	UL Japan, Inc. Shonan EMC Lab.	No.3 Shielded Room
Date	January 15, 2013	
Temperature / Humidity	24deg.C , 45%RH	
Engineer	Kenichi Adachi	
Mode	Tx, Transmitting, PN9	

Freq. [MHz]	-6dB Bandwidth [MHz]	Limit [MHz]
2425.0000	1.583	> 0.500
2450.0000	1.583	> 0.500
2475.0000	1.563	> 0.500



Maximum Peak Conducted Output Power

(Option 3)

Test place UL Japan, Inc. Shonan EMC Lab. No.2 Shielded Room
Date November 29, 2012
Temperature / Humidity 23deg.C , 30%RH
Engineer Kenichi Adachi
Mode Tx, Transmitting, PN9,

(* P/M: Power Meter with power sensor)

Ch	Freq. [MHz]	P/M (Peak) Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2425.0	-9.19	0.35	9.86	1.02	1.26	30.00	1000	28.98
Mid	2450.0	-9.48	0.35	9.86	0.73	1.18	30.00	1000	29.27
High	2475.0	-9.85	0.35	9.86	0.36	1.09	30.00	1000	29.64

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.2 (11/29) and No.3 (1/15) Semi Anechoic Chamber
Date November 29, 2012 January 15, 2013
Temperature / Humidity 23deg.C , 30%RH 23deg.C , 29%RH
Engineer Kenichi Adachi Kenichi Adachi
Mode Transmitting 2425MHz
EUT axis: carrier: H: X, V: Y / spurious: below 1GHz: H: Y, V: Y, 1G-15GHz: H: X, V: Z, 15G-26GHz: H: X, V: X

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	199.802	QP	36.3	16.9	9.4	31.8	30.8	43.5	12.7	321	208	
Hori.	364.509	QP	44.3	15.7	7.4	31.7	35.7	46.0	10.3	216	244	
Hori.	729.015	QP	37.3	20.8	9.3	31.6	35.8	46.0	10.2	129	145	
Hori.	2390.000	PK	45.7	27.2	14.1	38.2	48.8	73.9	25.1	100	106	noise floor level
Hori.	2400.000	PK	45.6	27.3	14.1	38.2	48.8	73.9	25.1	100	106	noise floor level
Hori.	4850.000	PK	46.8	30.9	6.6	36.9	47.4	73.9	26.5	102	306	
Hori.	7275.000	PK	45.7	36.2	8.0	39.0	50.9	73.9	23.0	100	0	noise floor level
Hori.	2390.000	AV	33.3	27.2	14.1	38.2	36.4	53.9	17.5	100	106	noise floor level
Hori.	2400.000	AV	33.3	27.3	14.1	38.2	36.5	53.9	17.4	100	106	noise floor level
Hori.	4850.000	AV	39.3	30.9	6.6	36.9	39.9	53.9	14.0	102	306	
Hori.	7275.000	AV	34.1	36.2	8.0	39.0	39.3	53.9	14.6	100	0	noise floor level
Vert.	78.992	QP	47.2	6.8	7.7	31.9	29.8	40.0	10.2	110	171	
Vert.	199.802	QP	41.6	16.9	9.4	31.8	36.1	43.5	7.4	100	133	
Vert.	364.509	QP	43.7	15.7	7.4	31.7	35.1	46.0	10.9	100	182	
Vert.	729.015	QP	40.4	20.8	9.3	31.6	38.9	46.0	7.1	100	205	
Vert.	2390.000	PK	45.6	27.2	14.1	38.2	48.7	73.9	25.2	105	223	noise floor level
Vert.	2400.000	PK	45.4	27.3	14.1	38.2	48.6	73.9	25.3	105	223	noise floor level
Vert.	4850.000	PK	48.5	30.9	6.6	36.9	49.1	73.9	24.8	100	206	
Vert.	7275.000	PK	45.6	36.2	8.0	39.0	50.8	73.9	23.1	100	0	noise floor level
Vert.	2390.000	AV	33.2	27.2	14.1	38.2	36.3	53.9	17.6	105	223	noise floor level
Vert.	2400.000	AV	33.2	27.3	14.1	38.2	36.4	53.9	17.5	105	223	noise floor level
Vert.	4850.000	AV	41.0	30.9	6.6	36.9	41.6	53.9	12.3	100	206	
Vert.	7275.000	AV	34.0	36.2	8.0	39.0	39.2	53.9	14.7	100	0	noise floor level

Result = Reading + Ant Factor + Loss(Cable+Attenuator+Filter-Distance factor(above 15GHz)) - Gain(Amplifier)

*Distance factor [dB](15GHz - 40GHz)= 20 x log (3.0[m] / 1.0[m]) = 9.5 [dB]

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.2 (11/29) and No.3 (1/15) Semi Anechoic Chamber
Date November 29, 2012 January 15, 2013
Temperature / Humidity 23deg.C , 30%RH 23deg.C , 29%RH
Engineer Kenichi Adachi Kenichi Adachi
Mode Transmitting 2450MHz
EUT axis: carrier: H: X, V: Y / spurious: below 1GHz: H: Y, V: Y, 1G-15GHz: H: X, V: Z, 15G-26GHz: H: X, V: X

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	199.805	QP	36.2	16.9	9.4	31.8	30.7	43.5	12.8	326	212	
Hori.	364.507	QP	44.4	15.7	7.4	31.7	35.8	46.0	10.2	211	248	
Hori.	729.016	QP	37.1	20.8	9.3	31.6	35.6	46.0	10.4	134	149	
Hori.	4900.000	PK	46.4	31.0	6.6	36.9	47.1	73.9	26.8	103	305	
Hori.	7350.000	PK	46.2	36.3	8.2	39.0	51.7	73.9	22.2	100	0	noise floor level
Hori.	4900.000	AV	39.0	31.0	6.6	36.9	39.7	53.9	14.2	103	305	
Hori.	7350.000	AV	34.2	36.3	8.2	39.0	39.7	53.9	14.2	100	0	noise floor level
Vert.	78.987	QP	47.3	6.8	7.7	31.9	29.9	40.0	10.1	107	169	
Vert.	199.805	QP	41.4	16.9	9.4	31.8	35.9	43.5	7.6	100	134	
Vert.	364.507	QP	43.8	15.7	7.4	31.7	35.2	46.0	10.8	100	179	
Vert.	729.016	QP	40.2	20.8	9.3	31.6	38.7	46.0	7.3	100	203	
Vert.	4900.000	PK	48.0	31.0	6.6	36.9	48.7	73.9	25.2	100	204	
Vert.	7350.000	PK	46.1	36.3	8.2	39.0	51.6	73.9	22.3	100	0	noise floor level
Vert.	4900.000	AV	40.5	31.0	6.6	36.9	41.2	53.9	12.7	100	204	
Vert.	7350.000	AV	34.1	36.3	8.2	39.0	39.6	53.9	14.3	100	0	noise floor level

Result = Reading + Ant Factor + Loss(Cable+Attenuator+Filter-Distance factor(above 15GHz)) - Gain(Amplifier)

*Distance factor [dB](15GHz - 40GHz)= 20 x log (3.0[m] / 1.0[m]) = 9.5 [dB]

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.2 (11/29) and No.3 (1/15) Semi Anechoic Chamber
Date November 29, 2012 January 15, 2013
Temperature / Humidity 23deg.C , 30%RH 23deg.C , 29%RH
Engineer Kenichi Adachi Kenichi Adachi
Mode Transmitting 2475MHz
EUT axis: carrier: H: X, V: Y / spurious: below 1GHz: H: Y, V: Y, 1G-15GHz: H: X, V: Z, 15G-26GHz: H: X, V: X

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg]	Remark
Hori.	199.806	QP	36.4	16.9	9.4	31.8	30.9	43.5	12.6	318	209	
Hori.	364.504	QP	44.0	15.7	7.4	31.7	35.4	46.0	10.6	221	246	
Hori.	729.017	QP	37.2	20.8	9.3	31.6	35.7	46.0	10.3	132	153	
Hori.	2483.500	PK	45.6	27.4	14.1	38.1	49.0	73.9	24.9	101	109	noise floor level
Hori.	4950.000	PK	46.0	31.2	6.7	36.9	47.0	73.9	26.9	104	301	
Hori.	7425.000	PK	45.7	36.3	8.4	39.0	51.4	73.9	22.5	100	0	noise floor level
Hori.	2483.500	AV	33.1	27.4	14.1	38.1	36.5	53.9	17.4	101	109	noise floor level
Hori.	4950.000	AV	38.8	31.2	6.7	36.9	39.8	53.9	14.1	104	301	
Hori.	7425.000	AV	34.2	36.3	8.4	39.0	39.9	53.9	14.0	100	0	noise floor level
Vert.	78.996	QP	47.1	6.8	7.7	31.9	29.7	40.0	10.3	106	173	
Vert.	199.806	QP	41.5	16.9	9.4	31.8	36.0	43.5	7.5	100	138	
Vert.	364.504	QP	43.9	15.7	7.4	31.7	35.3	46.0	10.7	100	184	
Vert.	729.017	QP	40.3	20.8	9.3	31.6	38.8	46.0	7.2	100	207	
Vert.	2483.500	PK	45.7	27.4	14.1	38.1	49.1	73.9	24.8	104	225	noise floor level
Vert.	4950.000	PK	47.8	31.2	6.7	36.9	48.8	73.9	25.1	100	202	
Vert.	7425.000	PK	45.8	36.3	8.4	39.0	51.5	73.9	22.4	100	0	noise floor level
Vert.	2483.500	AV	33.2	27.4	14.1	38.1	36.6	53.9	17.3	104	225	noise floor level
Vert.	4950.000	AV	40.2	31.2	6.7	36.9	41.2	53.9	12.7	100	202	
Vert.	7425.000	AV	34.3	36.3	8.4	39.0	40.0	53.9	13.9	100	0	noise floor level

Result = Reading + Ant Factor + Loss(Cable+Attenuator+Filter-Distance factor(above 15GHz)) - Gain(Amplifier)

*Distance factor [dB](15GHz - 40GHz)= 20 x log (3.0[m] / 1.0[m]) = 9.5 [dB]

UL Japan, Inc.

Shonan EMC Lab.

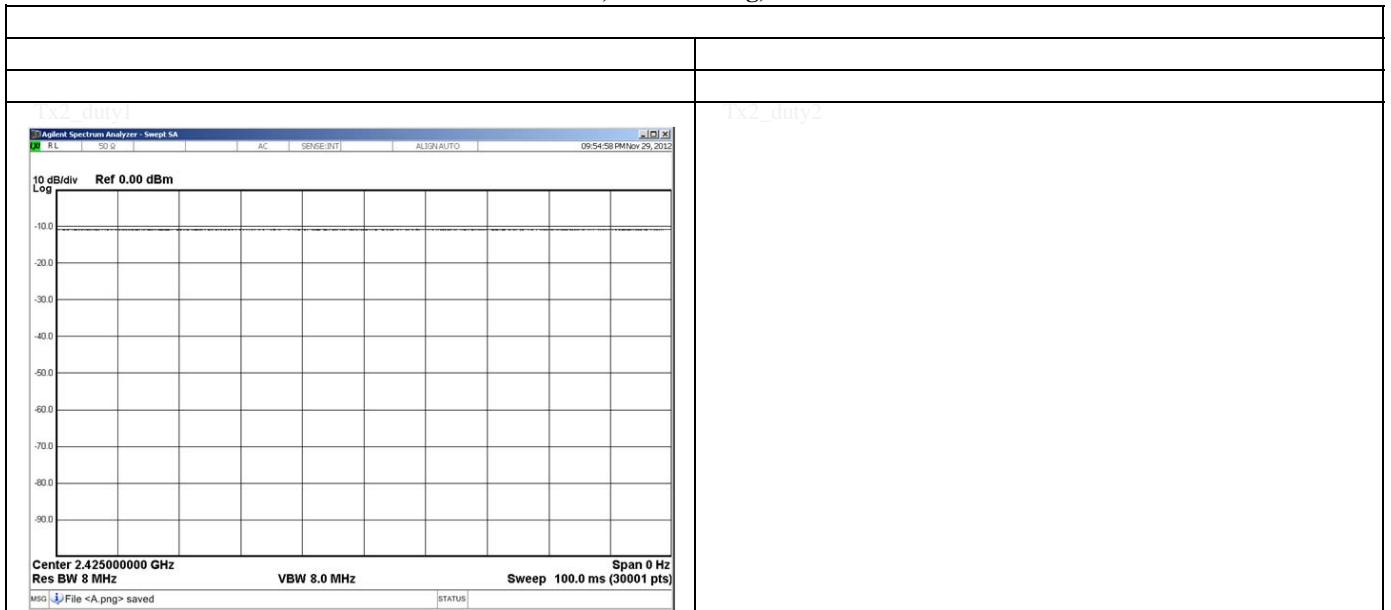
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Burst rate confirmation

Tx, Transmitting, PN9



UL Japan, Inc.

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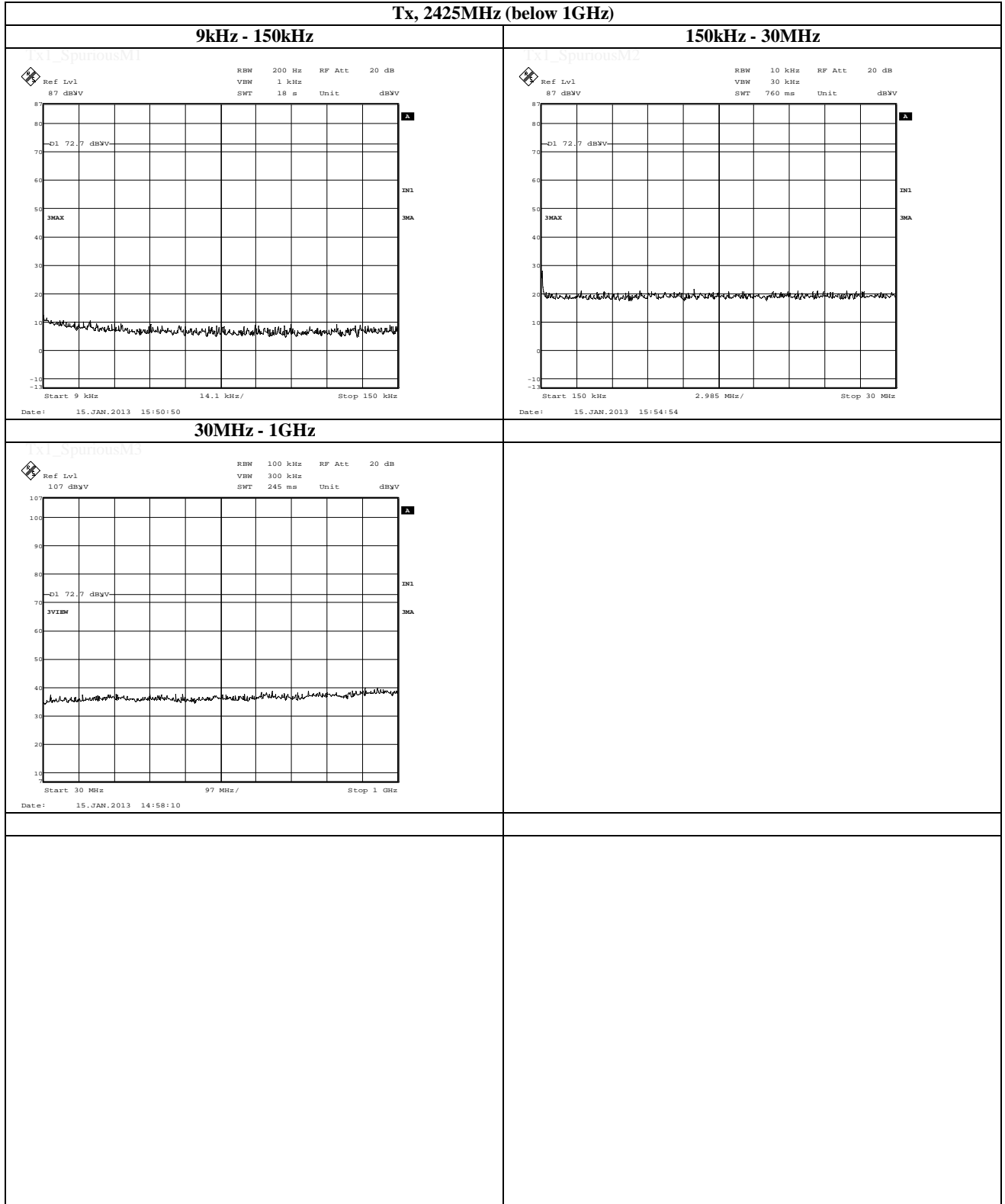
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

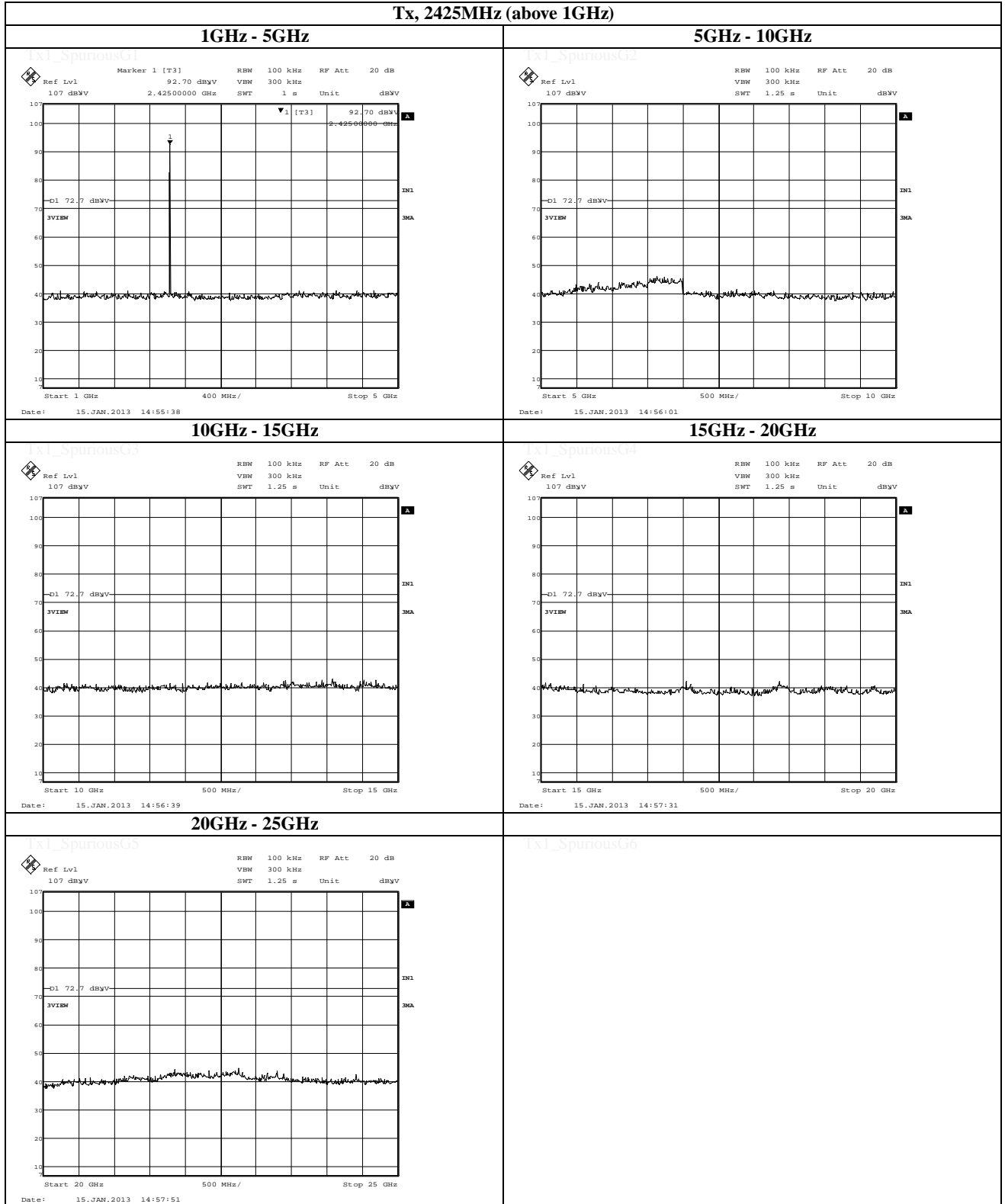
Tx, 2425MHz (below 1GHz)



(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

Tx, 2425MHz (above 1GHz)



UL Japan, Inc.

Shonan EMC Lab.

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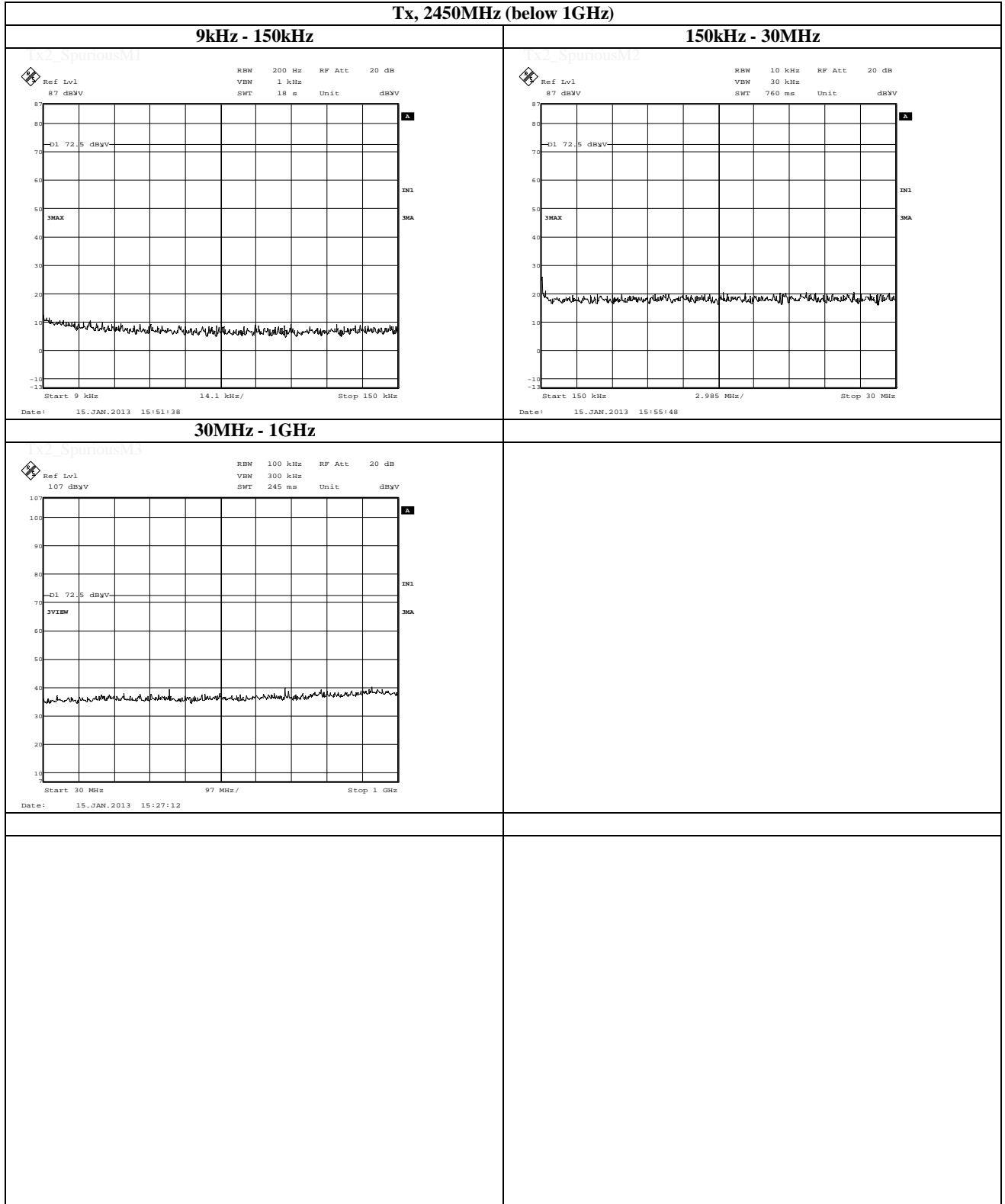
Telephone : +81 463 50 6400

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(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

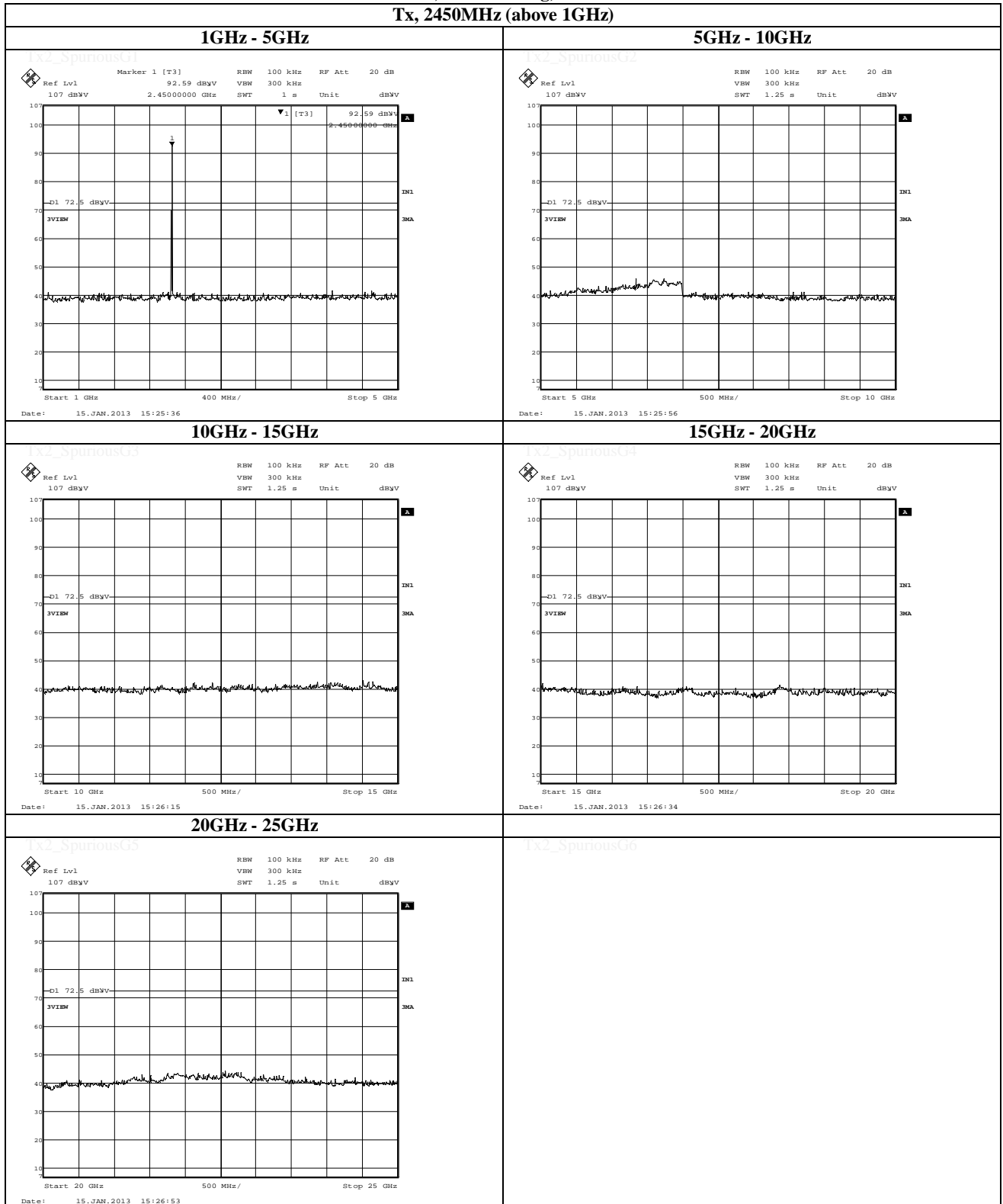
Tx, 2450MHz (below 1GHz)



(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

Tx, 2450MHz (above 1GHz)



UL Japan, Inc.

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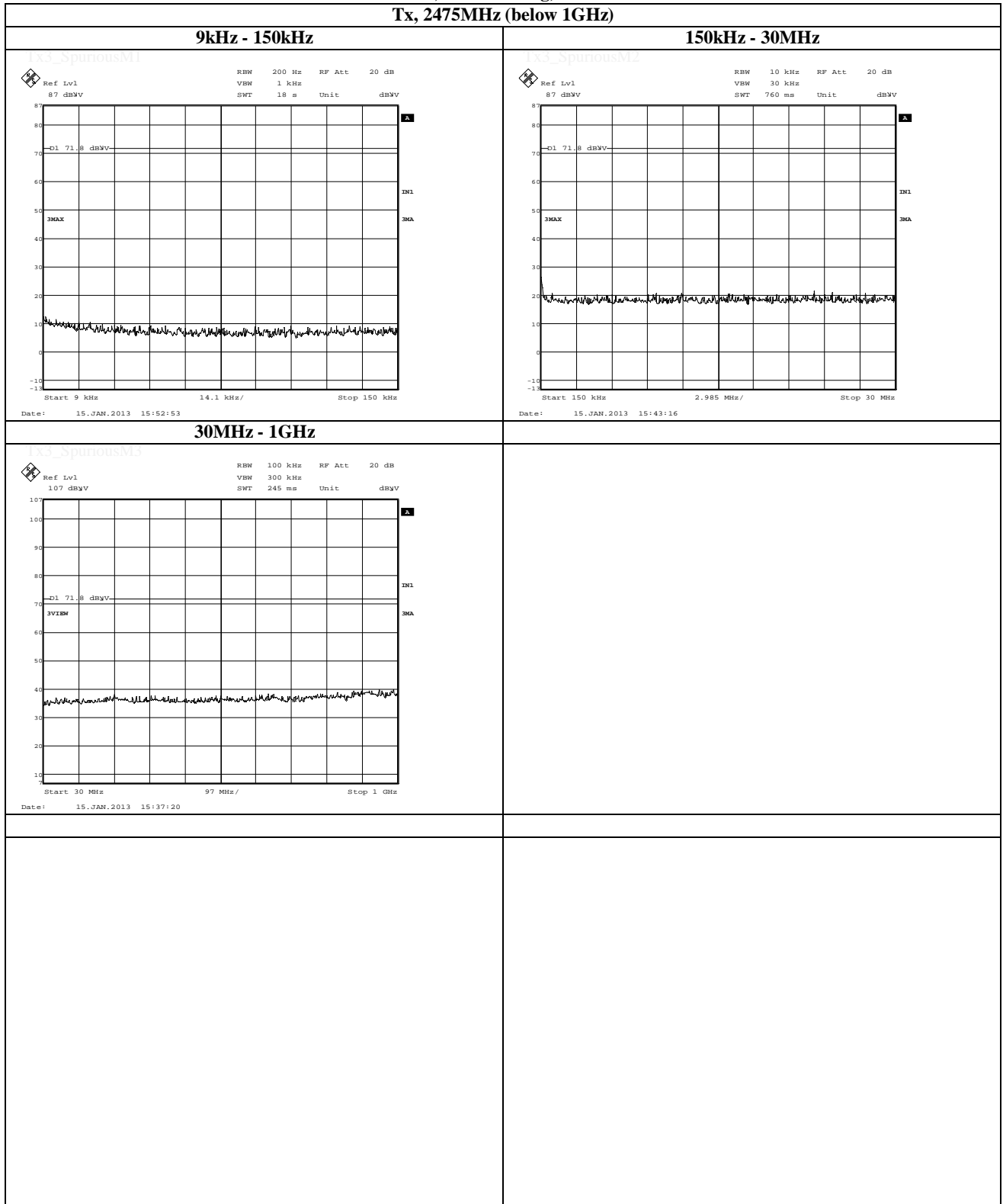
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Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

Tx, 2475MHz (below 1GHz)



UL Japan, Inc.

Shonan EMC Lab.

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

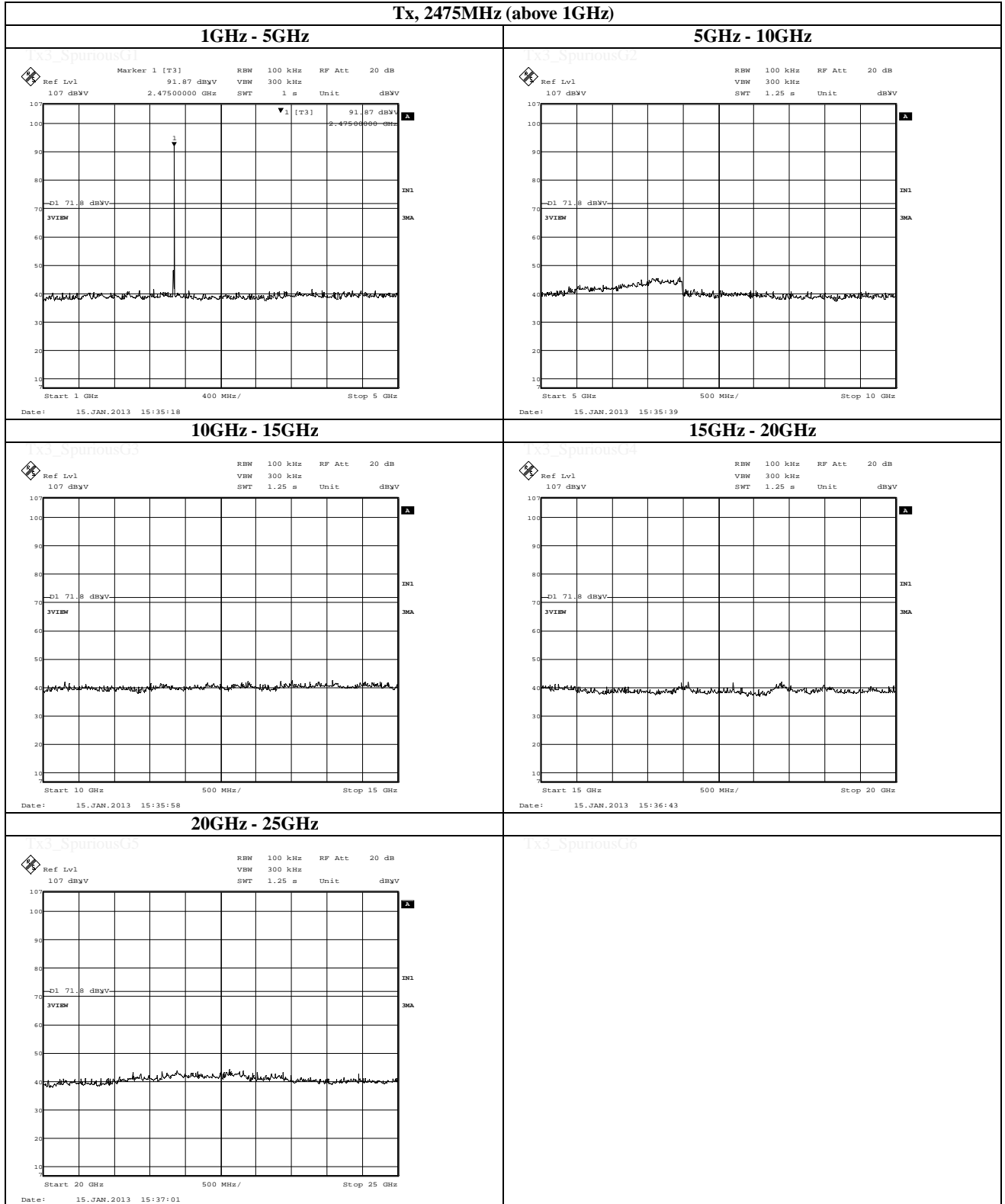
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)

Tx, Transmitting, PN9

Tx, 2475MHz (above 1GHz)



UL Japan, Inc.

Shonan EMC Lab.

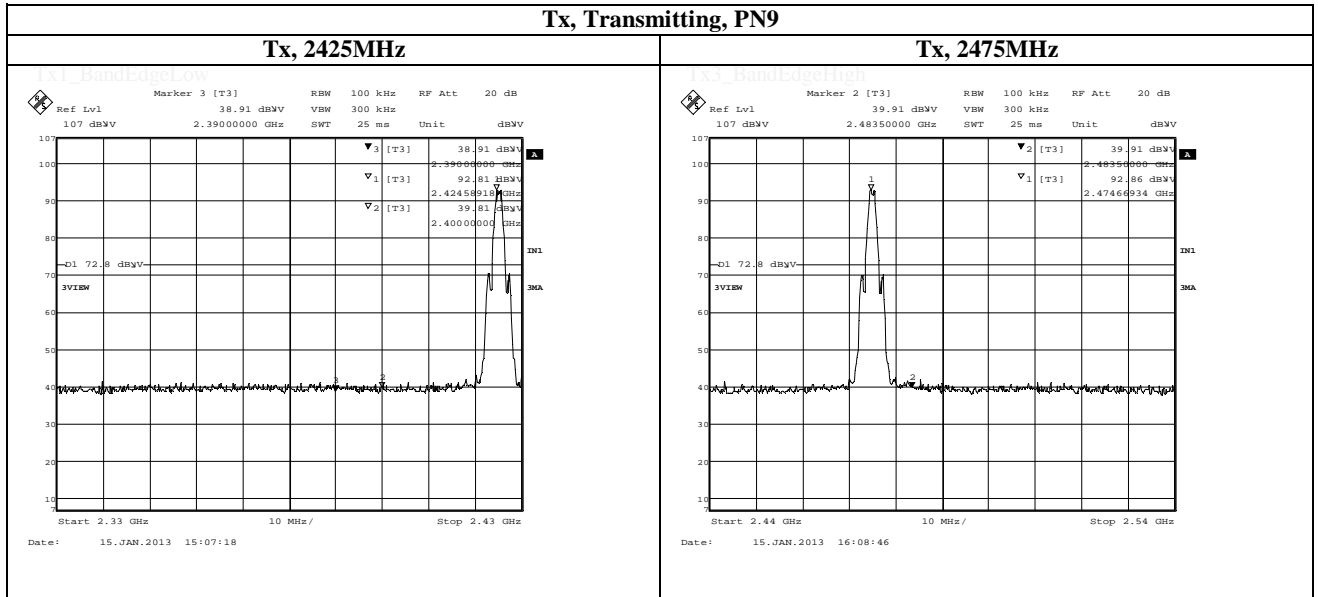
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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

(Reference chart) Spurious emission (Conducted)

Band Edge compliance



Maximum Power Spectral Density

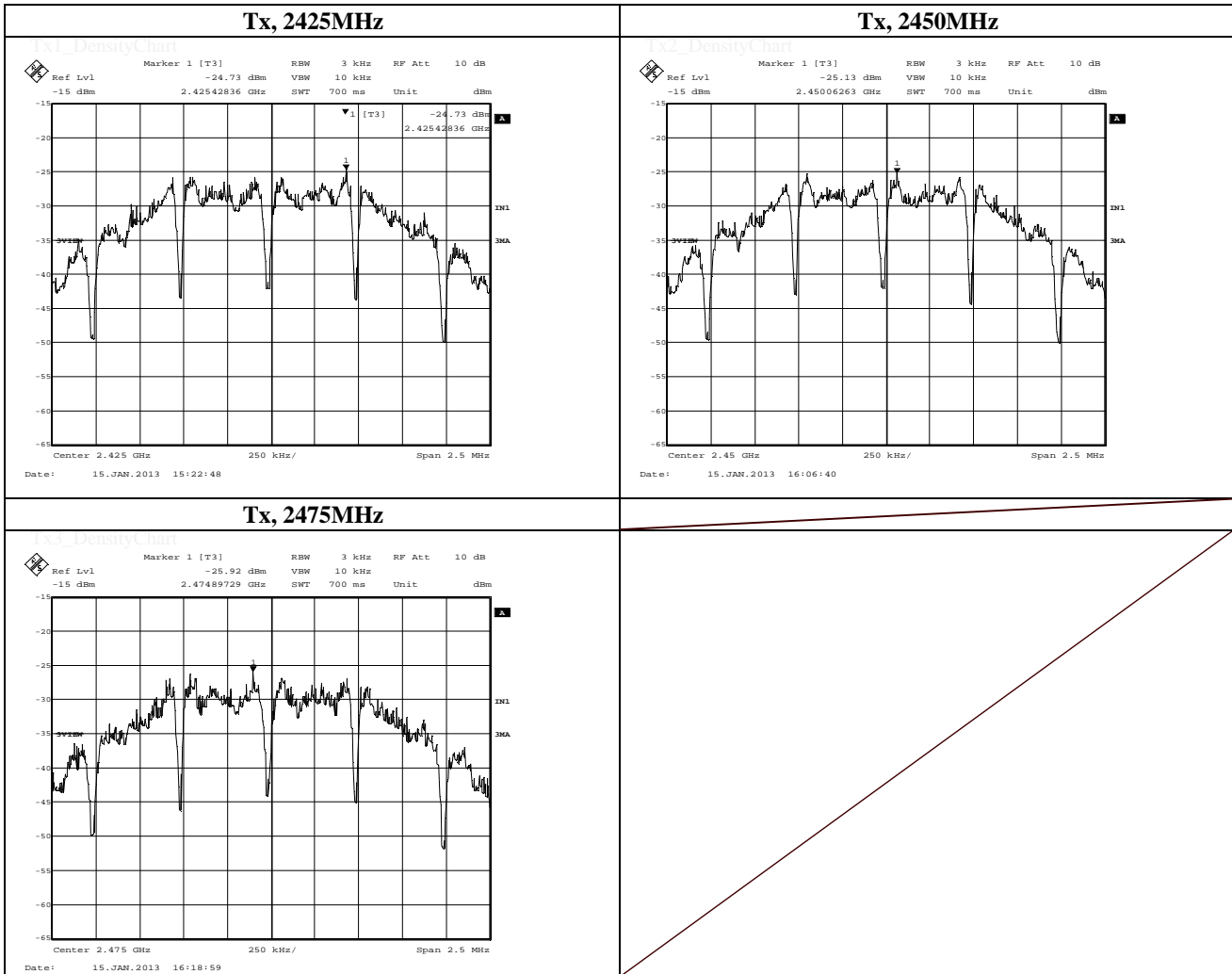
(Option 1)

Test place	UL Japan, Inc. Shonan EMC Lab.	No.3 Shielded Room
Date	January 15, 2013	
Temperature / Humidity	24deg.C , 45%RH	
Engineer	Kenichi Adachi	
Mode	Tx, Transmitting, PN9	

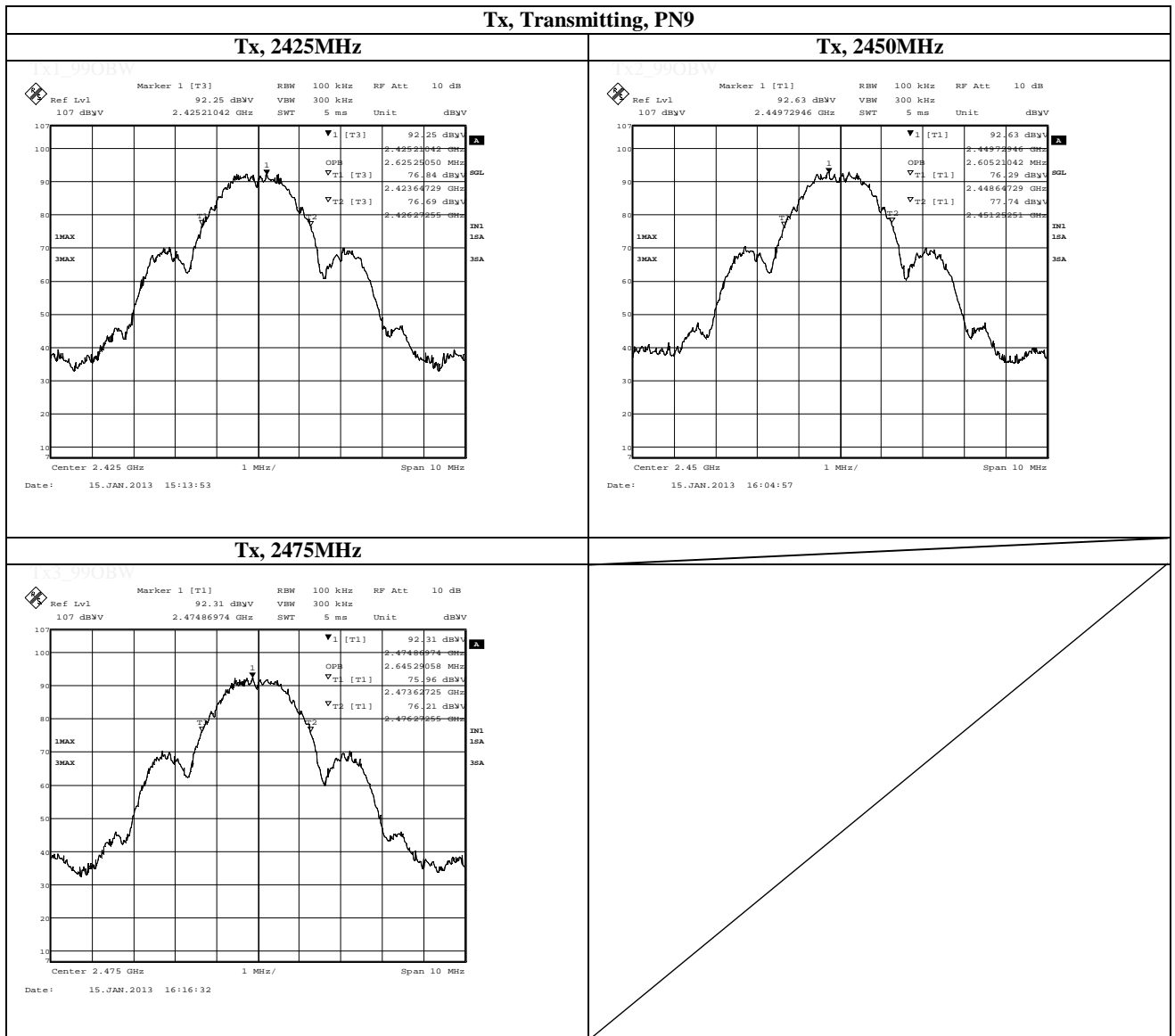
Ch. Freq. [MHz]	Freq. Reading [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
2425.0000	2425.43	-24.73	0.35	10.00	-14.38	8.00	22.38
2450.0000	2450.06	-25.13	0.35	10.00	-14.78	8.00	22.78
2475.0000	2474.90	-25.92	0.35	10.00	-15.57	8.00	23.57

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss



99% Occupied Bandwidth



Test Report No : 33CE0139-SH-02-A

APPENDIX 2 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	2012/04/19 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT	2012/04/19 * 12
SSA-01	Spectrum Analyzer	Agilent	N9010A-526	MY48031482	AT, RE	2012/04/11 * 12
SAT10-08	Attenuator	Weinschel	W54-10	-	AT	2012/03/12 * 12
SCC-G14	Coaxial Cable	Suhner	SUCOFLEX 102	31600/2	AT	2012/03/12 * 12
SOS-04	Humidity Indicator	A&D	AD-5681	4061512	AT	2012/03/26 * 12
SAF-02	Pre Amplifier	SONOMA	310N	290212	RE	2012/02/10 * 12
SAT6-02	Attenuator	JFW	50HF-006N	-	RE	2012/02/10 * 12
KAT3-11	Attenuator	JFW IND. INC.	50HF-003N	-	RE	2012/08/07 * 12
SBA-02	Biconical Antenna	Schwarzbeck	BBA9106	91032665	RE	2012/11/18 * 12
SCC-B1/B3/B5/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2012/04/10 * 12
SCC-B2/B4/B6/B7/B8/B13/SRSE-02	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	RE	2012/04/10 * 12
SLA-02	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A0893	RE	2012/11/18 * 12
SOS-03	Humidity Indicator	A&D	AD-5681	4063325	RE	2012/02/06 * 12
STR-02	Test Receiver	Rohde & Schwarz	ESCI	100575	RE	2012/09/03 * 12
SJM-02	Measure	KOMELON	KMC-36	-	RE	-
SAEC-02(NSA)	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	RE	2012/09/21 * 12
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE,RF,LF)	-	RE, CE	-
SAF-05	Pre Amplifier	TOYO Corporation	TPA0118-36	1440490	RE	2012/03/12 * 12
SCC-G02	Coaxial Cable	Suhner	SUCOFLEX 104A	46498/4A	RE	2012/04/10 * 12
SCC-G22	Coaxial Cable	Suhner	SUCOFLEX 104	296199/4	RE	2012/05/22 * 12
SHA-02	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-726	RE	2012/08/17 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2012/12/18 * 12
SAT10-06	Attenuator	Agilent	8493C-010	74865	RE	2012/12/18 * 12
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2012/09/21 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2012/07/18 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	2012/04/10 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2012/05/22 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2012/08/17 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2012/02/06 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE, CE	2012/06/14 * 12
SJM-11	Measure	PROMART	SEN1935	-	RE, CE	-
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2012/03/30 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2012/03/12 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2012/03/12 * 12
SCC-C9/C10/SRSE-03	Coaxial Cable&RF Selector	Suhner/Suhner/TOYO	RG223U/141PE/NS4906	-/0901-271(RF Selector)	CE	2012/04/10 * 12
SAT3-03	Attenuator	JFW	50HF-003N	-	CE	2012/02/17 * 12
SLS-05	LISN	Rohde & Schwarz	ENV216	100516	CE	2012/02/23 * 12
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	CE	2012/03/26 * 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 tests,