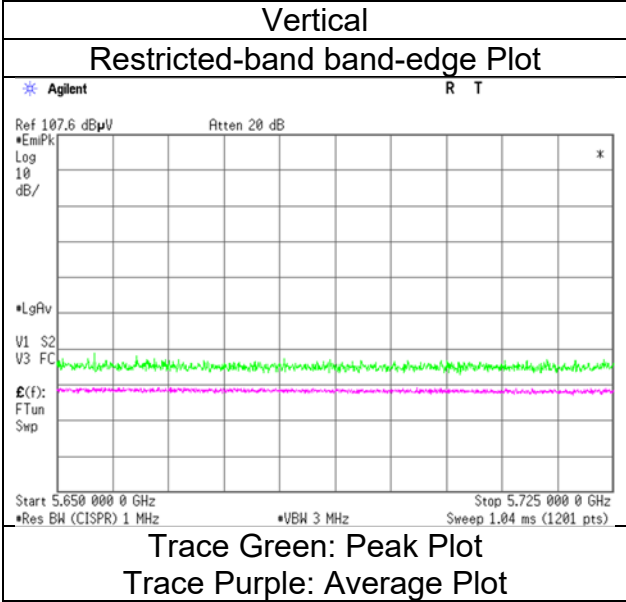
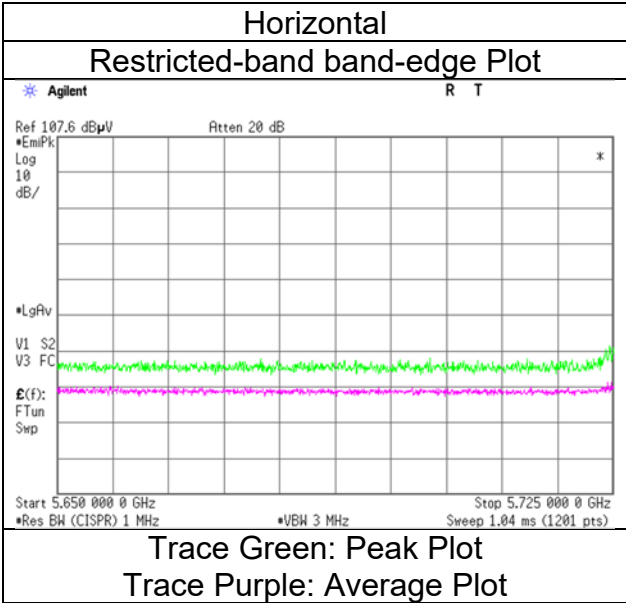


Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
July 4, 2024
22 deg. C / 67 % RH
Nachi Konegawa
(1 GHz to 6 GHz)
Tx 11ax-80 [52-tone RU/Index 37] 5775 MHz



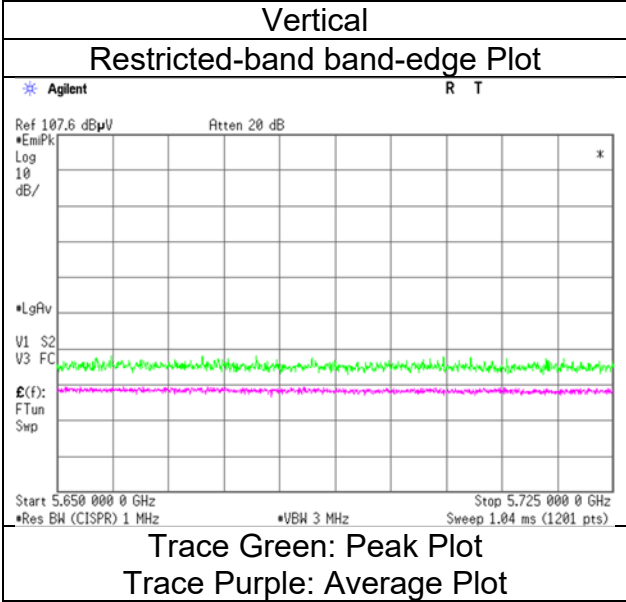
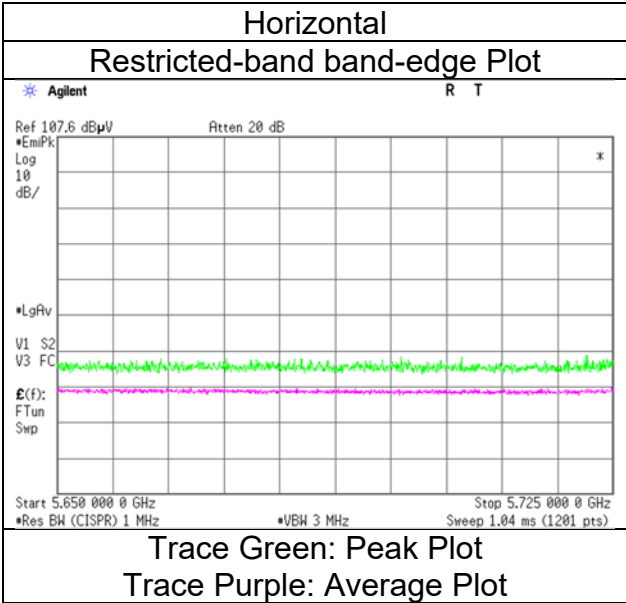
* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
July 4, 2024
22 deg. C / 67 % RH
Nachi Konegawa
(1 GHz to 6 GHz)
Tx 11ax-80 [106-tone RU/Index 53] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place Ise EMC Lab.
Semi Anechoic Chamber No.2
Date July 4, 2024
Temperature / Humidity 22 deg. C / 67 % RH
Engineer Nachi Konegawa
 (1 GHz to 6 GHz)
Mode Tx 11ax-80 [242-tone RU/Index 61] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	38.8	-	31.8	5.7	33.4	-	42.9	-	68.2	-	25.3	-	
Hori.	5700.0	38.6	-	31.9	5.7	33.4	-	42.9	-	105.2	-	62.4	-	
Hori.	5720.0	41.4	-	32.0	5.7	33.4	-	45.7	-	110.8	-	65.1	-	
Hori.	5725.0	46.7	-	32.0	5.7	33.4	-	51.0	-	122.2	-	71.2	-	
Vert.	5650.0	38.0	-	31.8	5.7	33.4	-	42.1	-	68.2	-	26.1	-	
Vert.	5700.0	37.7	-	31.9	5.7	33.4	-	41.9	-	105.2	-	63.3	-	
Vert.	5720.0	38.2	-	32.0	5.7	33.4	-	42.5	-	110.8	-	68.3	-	
Vert.	5725.0	42.6	-	32.0	5.7	33.4	-	46.9	-	122.2	-	75.3	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.6\text{ m} / 3.0\text{ m}) = 1.59\text{ dB}$

Radiated Spurious Emission

Test place Ise EMC Lab.
Semi Anechoic Chamber No.2
Date July 4, 2024
Temperature / Humidity 22 deg. C / 67 % RH
Engineer Nachi Konegawa
 (1 GHz to 6 GHz)
Mode Tx 11ax-80 [484-tone RU/Index 65] 5775 MHz

Polarity [Hori/Vert]	Frequency [MHz]	Reading (QP / PK) [dBuV]	Reading (AV) [dBuV]	Ant. Factor [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result (QP / PK) [dBuV/m]	Result (AV) [dBuV/m]	Limit (QP / PK) [dBuV/m]	Limit (AV) [dBuV/m]	Margin (QP / PK) [dB]	Margin (AV) [dB]	Remark
Hori.	5650.0	39.0	-	31.8	5.7	33.4	-	43.1	-	68.2	-	25.1	-	
Hori.	5700.0	39.5	-	31.9	5.7	33.4	-	43.7	-	105.2	-	61.5	-	
Hori.	5720.0	40.7	-	32.0	5.7	33.4	-	45.0	-	110.8	-	65.8	-	
Hori.	5725.0	45.6	-	32.0	5.7	33.4	-	50.0	-	122.2	-	72.2	-	
Vert.	5650.0	37.2	-	31.8	5.7	33.4	-	41.4	-	68.2	-	26.8	-	
Vert.	5700.0	37.4	-	31.9	5.7	33.4	-	41.7	-	105.2	-	63.5	-	
Vert.	5720.0	38.7	-	32.0	5.7	33.4	-	43.0	-	110.8	-	67.8	-	
Vert.	5725.0	42.3	-	32.0	5.7	33.4	-	46.6	-	122.2	-	75.6	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

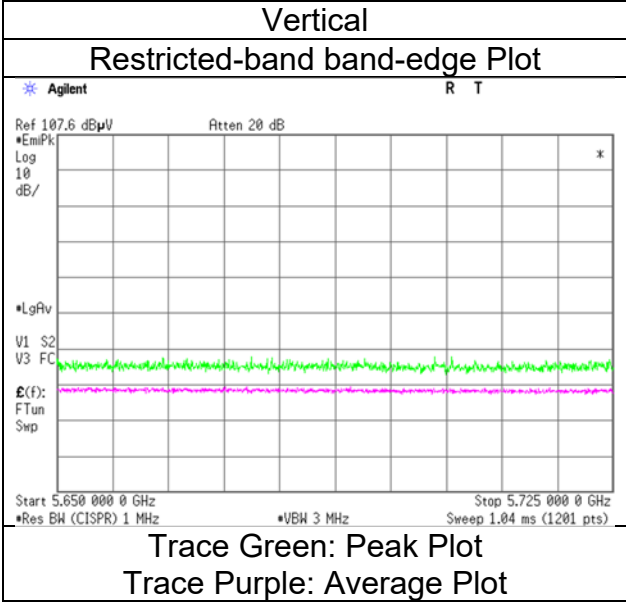
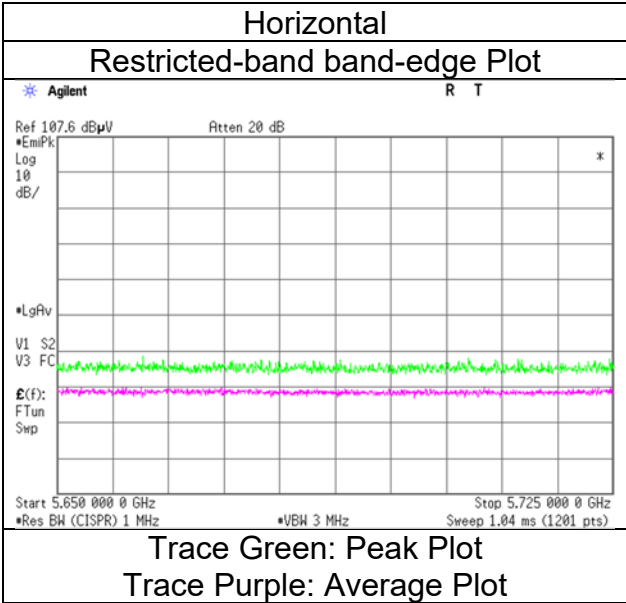
*QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz $20\log(3.6\text{ m} / 3.0\text{ m}) = 1.59\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer
Mode

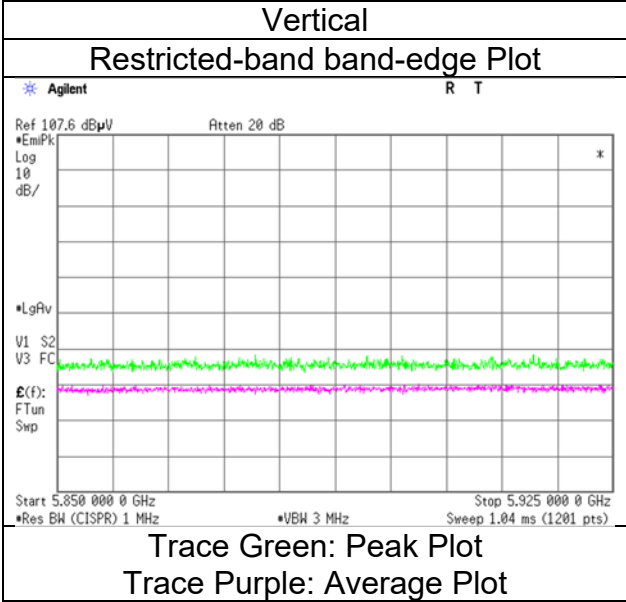
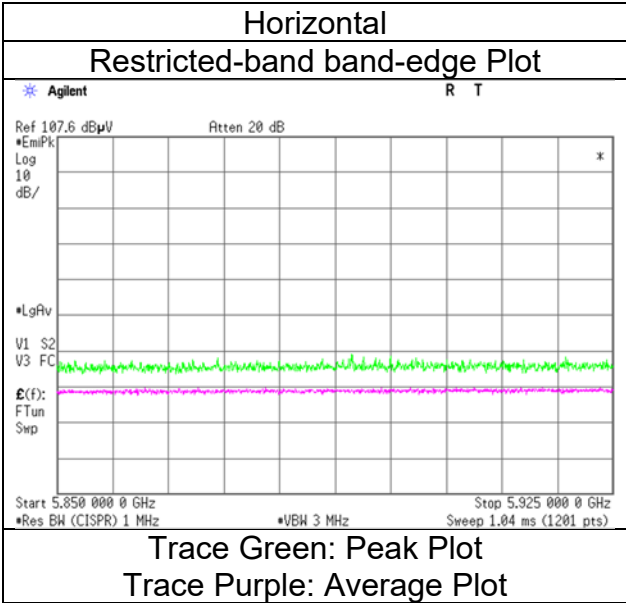
Ise EMC Lab.
No.2
July 4, 2024
22 deg. C / 67 % RH
Nachi Konegawa
(1 GHz to 6 GHz)
Tx 11ax-80 [484-tone RU/Index 65] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

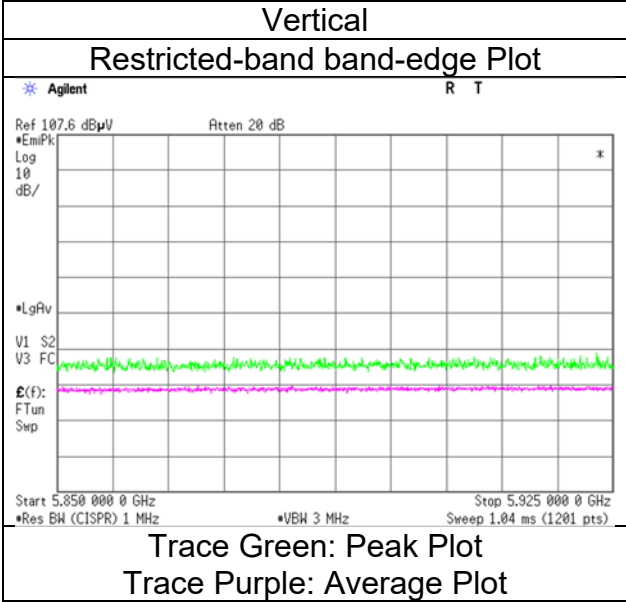
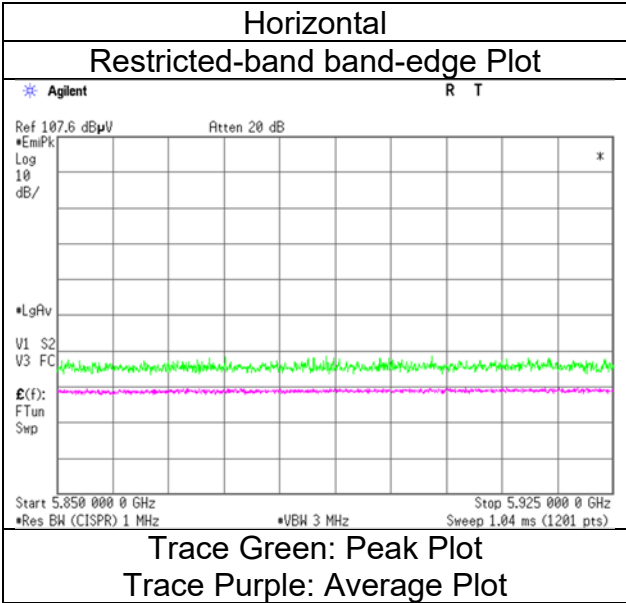
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	July 4, 2024
Temperature / Humidity	22 deg. C / 67 % RH
Engineer	Nachi Konegawa
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [26-tone RU/Index 36] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	July 4, 2024
Temperature / Humidity	22 deg. C / 67 % RH
Engineer	Nachi Konegawa
	(1 GHz to 6 GHz)
Mode	Tx 11ax-80 [52-tone RU/Index 52] 5775 MHz



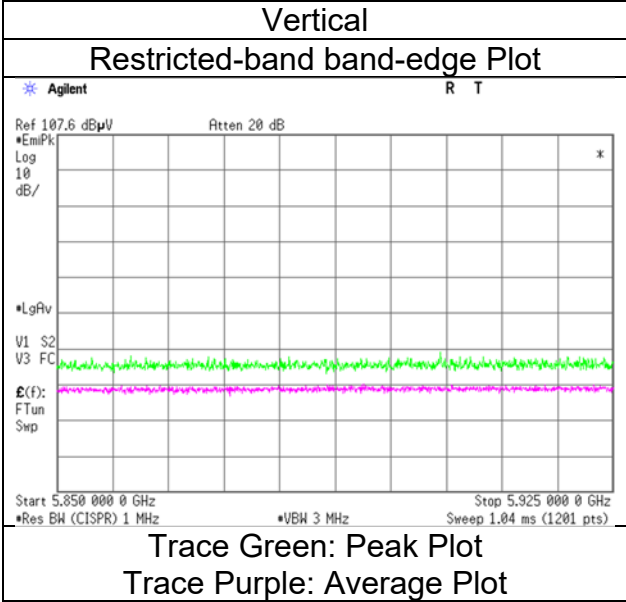
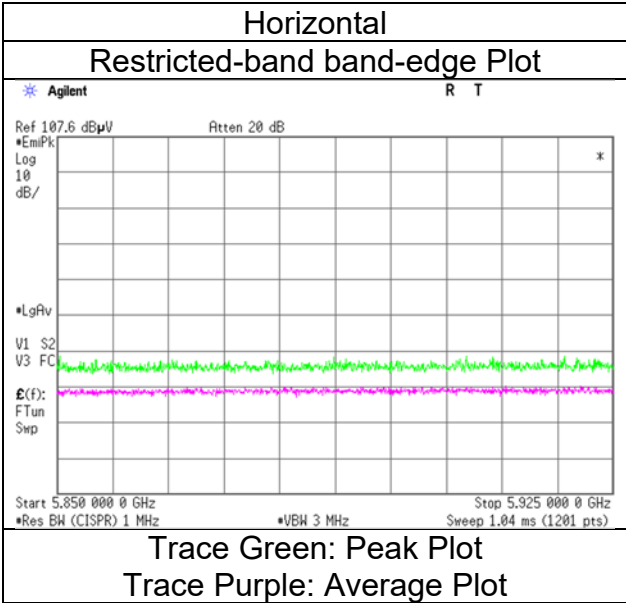
* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

Ise EMC Lab.
No.2
July 4, 2024
22 deg. C / 67 % RH
Nachi Konegawa
(1 GHz to 6 GHz)
Tx 11ax-80 [106-tone RU/Index 60] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place Ise EMC Lab.
Semi Anechoic Chamber No.2
Date July 4, 2024
Temperature / Humidity 22 deg. C / 67 % RH
Engineer Nachi Konegawa
 (1 GHz to 6 GHz)
Mode Tx 11ax-80 [242-tone RU/Index 64] 5775 MHz

Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	5850.0	40.9	-	32.3	5.8	33.4	-	45.5	-	122.2	-	76.7	-	
Hori.	5855.0	41.1	-	32.3	5.8	33.4	-	45.8	-	110.8	-	65.0	-	
Hori.	5875.0	40.2	-	32.3	5.8	33.4	-	44.9	-	105.2	-	60.3	-	
Hori.	5925.0	40.1	-	32.4	5.8	33.4	-	44.9	-	68.2	-	23.4	-	
Vert.	5850.0	40.1	-	32.3	5.8	33.4	-	44.8	-	122.2	-	77.4	-	
Vert.	5855.0	39.2	-	32.3	5.8	33.4	-	43.9	-	110.8	-	66.9	-	
Vert.	5875.0	40.8	-	32.3	5.8	33.4	-	45.5	-	105.2	-	59.7	-	
Vert.	5925.0	39.8	-	32.4	5.8	33.4	-	44.6	-	68.2	-	23.6	-	

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

*QP detector was used up to 1GHz.

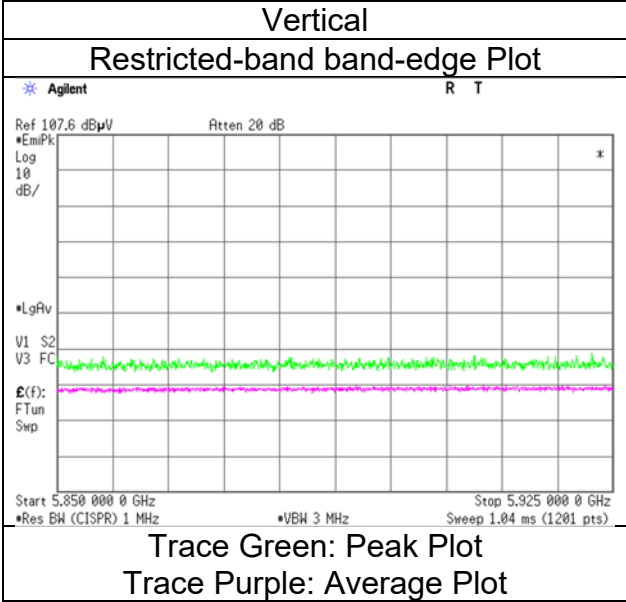
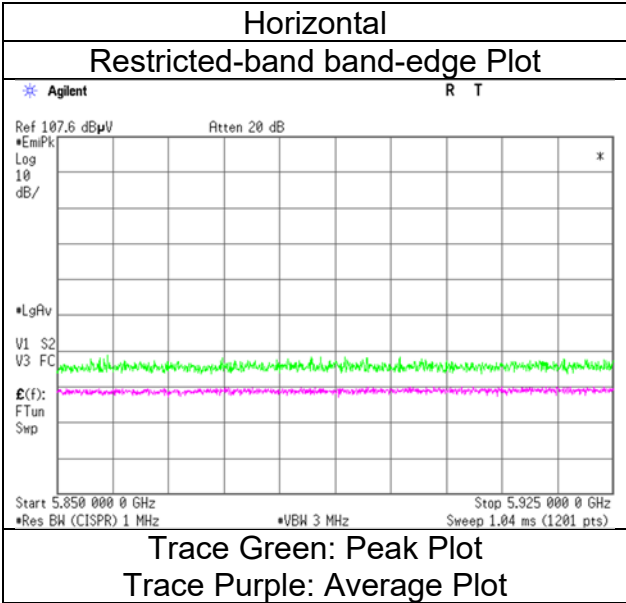
Distance factor: 1 GHz - 6 GHz $20\log(3.6\text{ m} / 3.0\text{ m}) = 1.59\text{ dB}$

Radiated Spurious Emission

Test place
Semi Anechoic Chamber
Date
Temperature / Humidity
Engineer

Mode

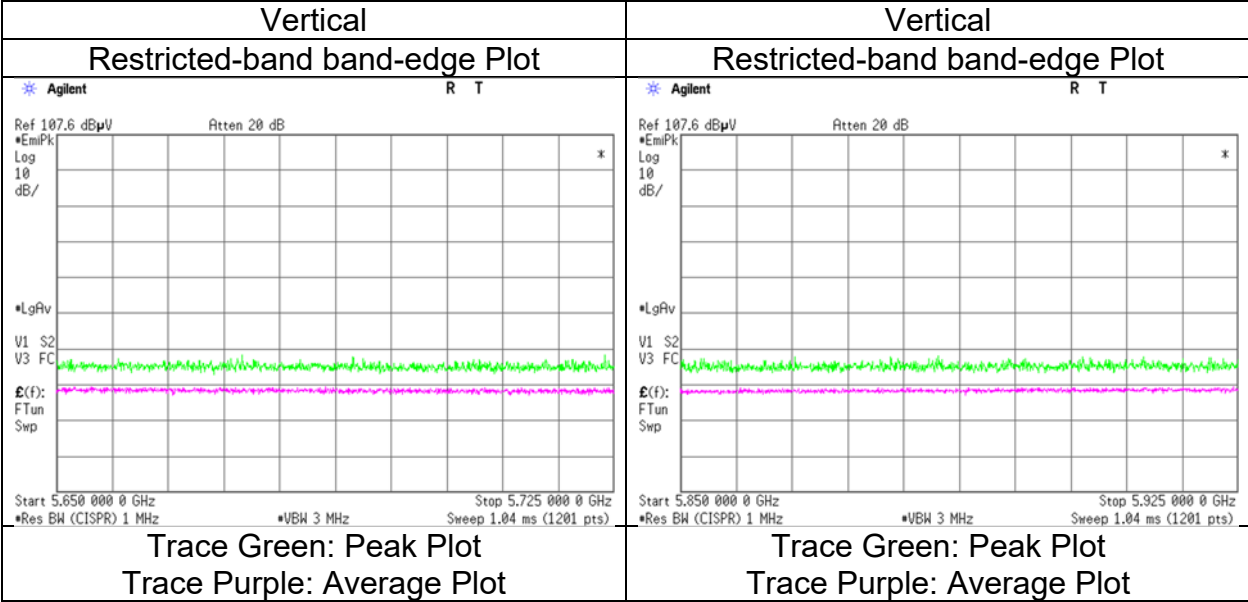
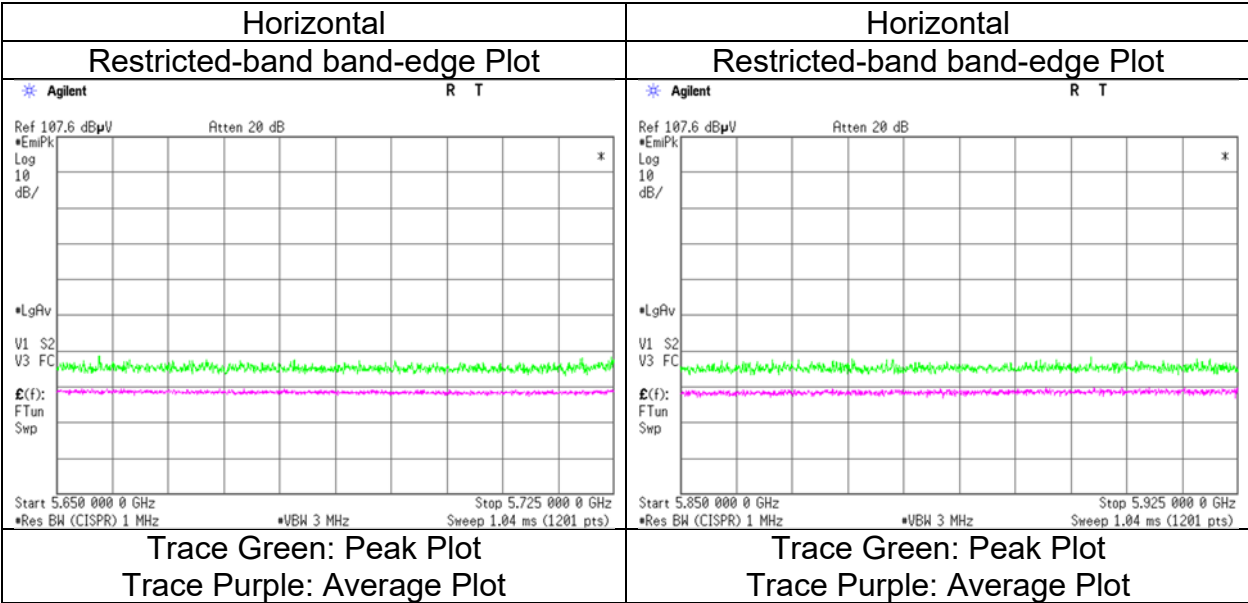
Ise EMC Lab.
No.2
July 4, 2024
22 deg. C / 67 % RH
Nachi Konegawa
(1 GHz to 6 GHz)
Tx 11ax-80 [242-tone RU/Index 64] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	July 4, 2024
Temperature / Humidity	22 deg. C / 67 % RH
Engineer	Nachi Konegawa (1 GHz to 6 GHz)
Mode	Tx 11ax-80 [996-tone RU/Index 67] 5775 MHz



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission

Test place	Ise EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	July 8, 2024	July 9, 2024	July 10, 2024
Temperature / Humidity	23 deg. C / 70 % RH	22 deg. C / 69 % RH	24 deg. C / 65 % RH
Engineer	Shousei Hamaguchi	Shousei Hamaguchi	Tomoya Sone
	(Above 26.5 GHz)	(1 GHz to 26.5 GHz)	(Below 1 GHz)
Mode	Tx 11ax-80 [OFDM] 5775 MHz + 3DH5 Hopping		

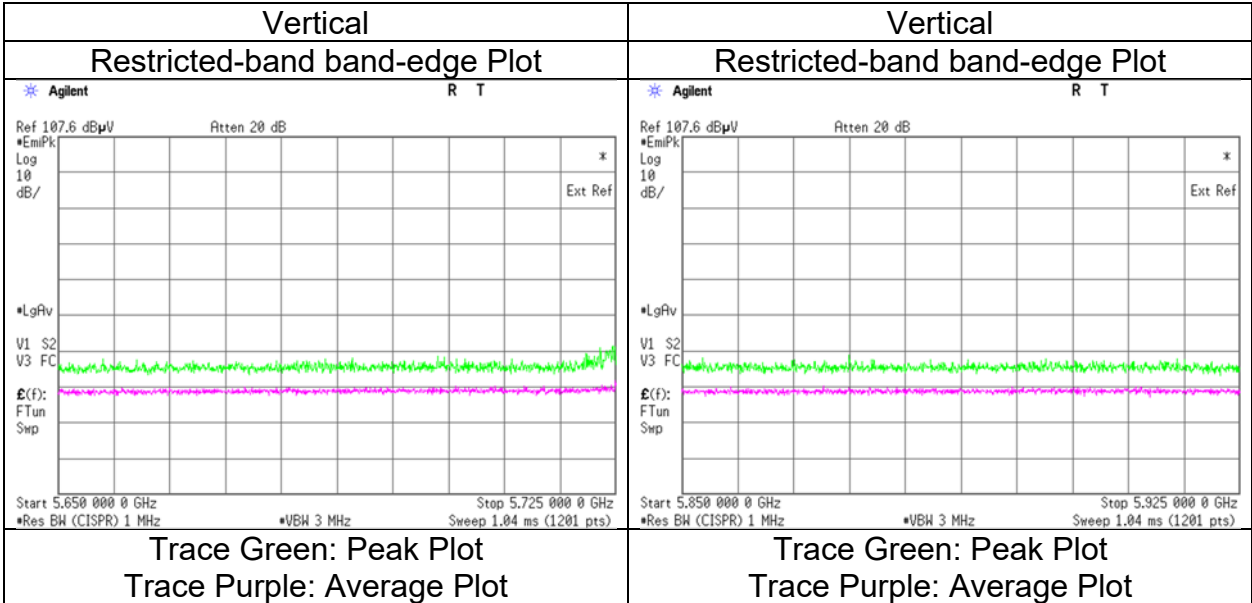
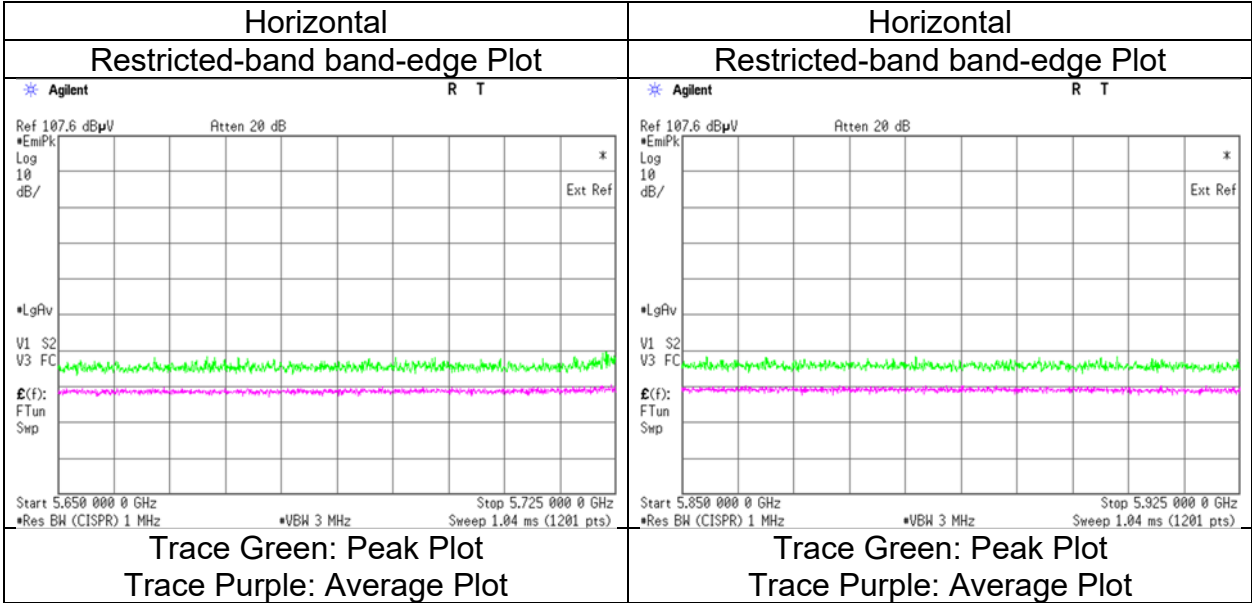
Polarity	Frequency	Reading (QP / PK)	Reading (AV)	Ant. Factor	Loss	Gain	Duty Factor	Result (QP / PK)	Result (AV)	Limit (QP / PK)	Limit (AV)	Margin (QP / PK)	Margin (AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	59.9	23.5	-	9.2	7.0	28.5	-	11.2	-	40.0	-	-	28.8	-
Hori.	77.9	24.8	-	9.1	7.2	28.5	-	12.6	-	40.0	-	-	27.4	-
Hori.	88.5	23.3	-	9.4	7.3	28.4	-	11.6	-	43.5	-	-	31.9	-
Hori.	220.8	27.8	-	11.2	8.2	27.9	-	19.4	-	46.0	-	-	26.6	-
Hori.	737.6	29.8	-	20.1	10.6	29.2	-	31.4	-	46.0	-	-	14.7	-
Hori.	811.2	23.3	-	20.9	10.9	29.0	-	26.1	-	46.0	-	-	19.9	-
Hori.	5000.0	46.2	38.9	31.8	5.4	33.6	-	49.9	42.6	73.9	53.9	24.0	11.3	-
Hori.	5650.0	41.6	-	31.8	5.7	33.4	-	45.8	-	73.9	-	-	28.2	-
Hori.	5700.0	42.6	-	31.9	5.7	33.4	-	46.9	-	73.9	-	-	27.0	-
Hori.	5720.0	45.8	-	32.0	5.7	33.4	-	50.1	-	73.9	-	-	23.8	-
Hori.	5725.0	51.1	-	32.0	5.7	33.4	-	55.5	-	73.9	-	-	18.4	-
Hori.	5850.0	43.2	-	32.3	5.8	33.4	-	47.8	-	73.9	-	-	26.1	-
Hori.	5855.0	42.8	-	32.3	5.8	33.4	-	47.4	-	73.9	-	-	26.5	-
Hori.	5875.0	42.6	-	32.3	5.8	33.4	-	47.3	-	73.9	-	-	26.6	-
Hori.	5925.0	42.4	-	32.4	5.8	33.4	-	47.1	-	73.9	-	-	26.8	-
Hori.	11550.0	40.4	32.2	37.7	-1.7	33.2	-	43.3	35.1	73.9	53.9	30.6	18.8	Floor noise
Hori.	17325.0	42.5	-	40.0	0.0	32.2	-	50.3	-	68.2	-	-	17.9	Floor noise
Vert.	59.9	27.1	-	9.2	7.0	28.5	-	14.8	-	40.0	-	-	25.2	-
Vert.	77.9	30.1	-	9.1	7.2	28.5	-	17.9	-	40.0	-	-	22.1	-
Vert.	88.5	26.5	-	9.4	7.3	28.4	-	14.8	-	43.5	-	-	28.7	-
Vert.	220.8	24.1	-	11.2	8.2	27.9	-	15.7	-	46.0	-	-	30.3	-
Vert.	737.6	34.1	-	20.1	10.6	29.2	-	35.7	-	46.0	-	-	10.4	-
Vert.	811.2	24.7	-	20.9	10.9	29.0	-	27.5	-	46.0	-	-	18.5	-
Vert.	5000.0	47.0	39.8	31.8	5.4	33.6	-	50.7	43.5	73.9	53.9	23.2	10.4	-
Vert.	5650.0	42.8	-	31.8	5.7	33.4	-	46.9	-	73.9	-	-	27.0	-
Vert.	5700.0	42.8	-	31.9	5.7	33.4	-	47.1	-	73.9	-	-	26.8	-
Vert.	5720.0	45.1	-	32.0	5.7	33.4	-	49.5	-	73.9	-	-	24.5	-
Vert.	5725.0	49.1	-	32.0	5.7	33.4	-	53.4	-	73.9	-	-	20.5	-
Vert.	5850.0	43.2	-	32.3	5.8	33.4	-	47.9	-	73.9	-	-	26.1	-
Vert.	5855.0	43.1	-	32.3	5.8	33.4	-	47.7	-	73.9	-	-	26.2	-
Vert.	5875.0	42.8	-	32.3	5.8	33.4	-	47.5	-	73.9	-	-	26.4	-
Vert.	5925.0	42.6	-	32.4	5.8	33.4	-	47.4	-	73.9	-	-	26.5	-
Vert.	11550.0	40.4	32.2	37.7	-1.7	33.2	-	43.3	35.1	73.9	53.9	30.6	18.8	Floor noise
Vert.	17325.0	42.5	-	40.0	0.0	32.2	-	50.3	-	68.2	-	-	17.9	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)
 Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor
 *Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).
 *QP detector was used up to 1GHz.

Distance factor: 1 GHz - 6 GHz 20log (3.6 m / 3.0 m) = 1.59 dB
 6 GHz - 10 GHz 20log (3.6 m / 3.0 m) = 1.59 dB
 10 GHz - 26.5 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

Radiated Spurious Emission

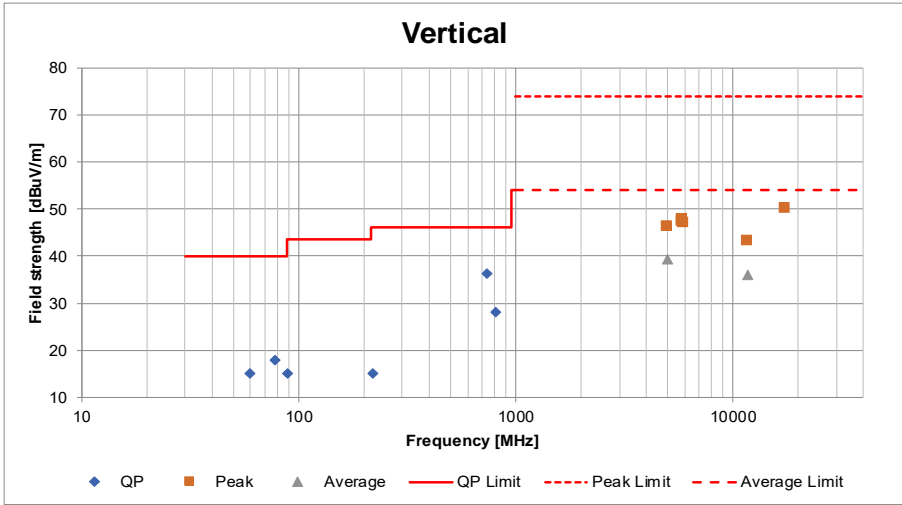
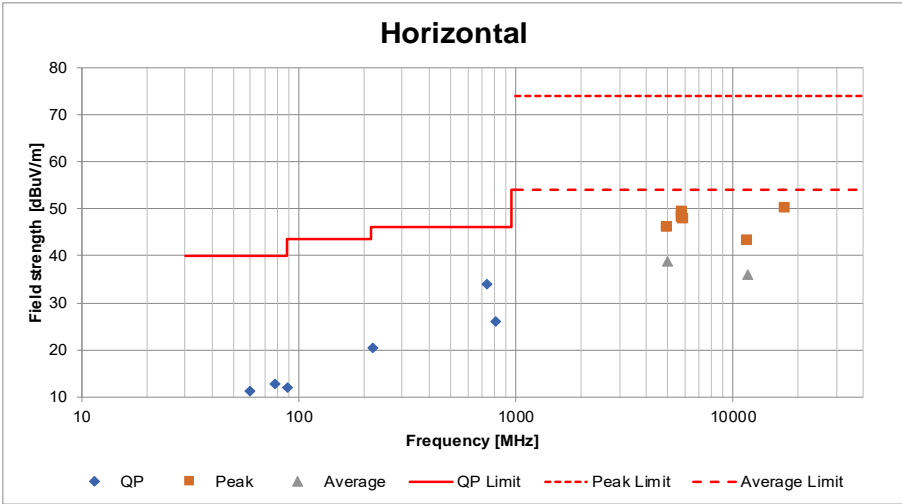
Test place	Ise EMC Lab.
Semi Anechoic Chamber	No.2
Date	July 9, 2024
Temperature / Humidity	22 deg. C / 69 % RH
Engineer	Shousei Hamaguchi
Mode	Tx 11ax-80 [OFDM] 5775 MHz + 3DH5 Hopping



* The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.
 Final result of restricted band edge was shown in tabular data.

Radiated Spurious Emission
(Plot data, Worst case mode for Maximum Conducted Output Power)

Test place	Ise EMC Lab.				
Semi Anechoic Chamber	No.2	No.2	No.2	No.2	No.2
Date	July 3, 2024	July 7, 2024	July 8, 2024	July 8, 2024	July 10, 2024
Temperature / Humidity	23 deg. C / 71 % RH	20 deg. C / 60 % RH	23 deg. C / 70 % RH	23 deg. C / 70 % RH	24 deg. C / 65 % RH
Engineer	Nachi Konegawa	Shousei Hamaguchi	Tomoya Sone	Shousei Hamaguchi	Tomoya Sone
Mode	(1 GHz to 10 GHz)	(10 GHz to 18 GHz)	(18 GHz to 26.5 GHz)	(Above 26.5 GHz)	(Below 1 GHz)
	Tx 11ax-20 [52-tone RU/Index 40] 5825 MHz				



*These plots data contains sufficient number to show the trend of characteristic features for EUT.

APPENDIX 2: Test Instruments

Test Equipment

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141232	High Pass Filter 3.5-18.0GHz	UL Japan	HPF SELECTOR	001	09/04/2023	12
RE	141266	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-191	08/10/2023	12
RE	141279	Microwave Cable	Junkosha	MMX221-00500DMSDMS	1502S303	03/04/2024	12
RE	141317	Coaxial Cable	UL Japan	-	-	09/12/2023	12
RE	141393	Microwave Cable	Junkosha	MWX221	1604S254(1 m) / 1608S088(5 m)	07/06/2024	12
RE	141406	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	09/01/2023	12
RE	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	254	10/17/2023	12
RE	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170306	07/19/2023	12
RE	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/20/2023	12
RE	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2023	12
RE	141579	Pre Amplifier	Keysight Technologies Inc	8449B	3008A02142	02/17/2024	12
RE	141588	Pre Amplifier	L3 Narda-MITEQ	AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P	1871355 / 1871328	01/22/2024	12
RE	141594	Pre Amplifier	Keysight Technologies Inc	8447D	2944A10150	02/17/2024	12
RE	141885	Spectrum Analyzer	Keysight Technologies Inc	E4448A	US44300523	11/29/2023	12
RE	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	05/30/2024	12
RE	141949	Test Receiver	Rohde & Schwarz	ESCI	100767	06/05/2024	12
RE	142004	AC2_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	12/12/2023	24
RE	142006	AC2_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/17/2023	24
RE	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	10/05/2023	12
RE	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	197990	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHBB 9124 + BBA 9106	01365	11/29/2023	12
RE	220646	Attenuator	Huber+Suhner	6806 N-50-1	-	03/12/2024	12
RE	234602	Microwave Cable	Huber+Suhner	SF126E/11PC35/11 PC35/1000M,5000 M	537063/126E / 537074/126E	03/08/2024	12
RE	238713	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	688	08/10/2023	12
RE	244707	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202102	01/25/2024	12

*Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

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:

RE: Radiated Emission