

Out of Band Emission

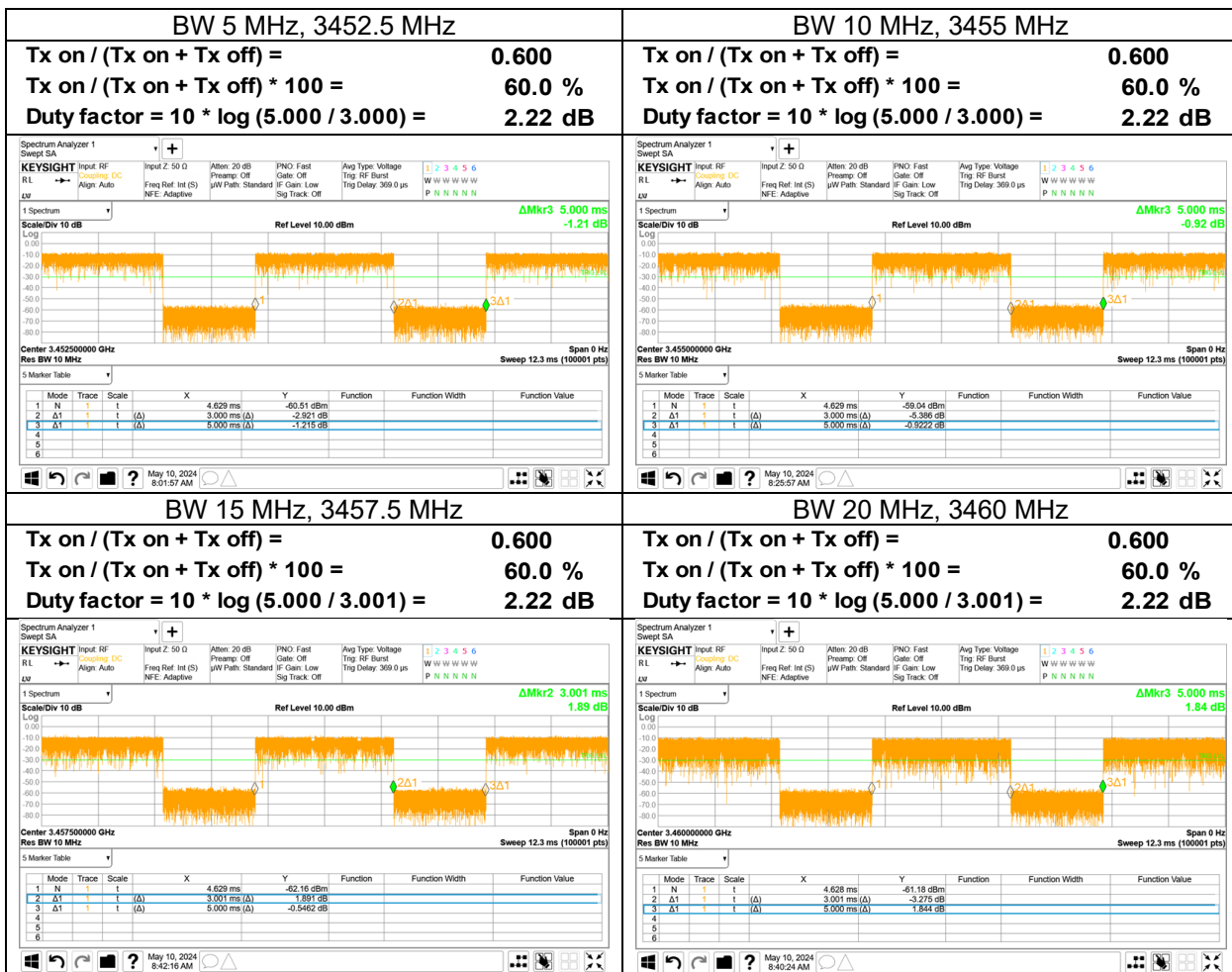
Test place
Measurement Room
Date
Temperature / Humidity
Engineer
Mode

Ise EMC Lab.
No.8
May 8, 2024
24 deg. C / 49 % RH
Takafumi Noguchi
LTE Band 42, BW 20 MHz, 3540 MHz



Duty Cycle

Test place	Ise EMC Lab.
Measurement Room	No.8
Date	May 10, 2024
Temperature / Humidity	22 deg. C / 49 % RH
Engineer	Takafumi Noguchi
Mode	LTE



Spurious Emission

Test place	Ise EMC Lab.		
Semi Anechoic Chamber	No.4	No.4	No.4
Date	April 10, 2024	April 11, 2024	April 11, 2024
Temperature / Humidity	20 deg. C / 36 % RH	20 deg. C / 45 % RH	22 deg. C / 42 % RH
Engineer	Kiyoshiro Okazaki (1 GHz to 26.5 GHz)	Takafumi Noguchi (26.5 GHz to 40 GHz)	Kiyoshiro Okazaki (Below 1 GHz)
Mode	LTE Band 42, 3460 MHz, BW 20 MHz, QPSK, RB1 Start99		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	EIRP [dBm]	ERP [dBm]	Limit [dBm]	Margin [dB]	Remark
Hori.	41.771	PK	30.2	14.2	7.2	32.1	19.5	-75.7	-77.9	-13.0	64.9	
Hori.	79.219	PK	30.2	6.8	7.7	32.1	12.6	-82.7	-84.8	-13.0	71.8	
Hori.	91.759	PK	29.4	8.9	7.8	32.1	14.0	-81.3	-83.4	-13.0	70.4	
Hori.	101.698	PK	28.4	10.6	7.9	32.1	14.8	-80.5	-82.7	-13.0	69.7	
Hori.	237.339	PK	36.5	11.5	9.1	32.0	25.1	-70.2	-72.4	-13.0	59.4	
Hori.	279.998	PK	30.0	13.3	9.4	32.0	20.7	-74.6	-76.7	-13.0	63.7	
Hori.	6937.800	PK	43.8	35.0	11.6	31.9	58.5	-36.7	-38.9	-13.0	25.9	Floor noise
Hori.	10406.700	PK	39.2	35.9	-1.7	32.6	40.9	-54.4	-56.5	-13.0	43.5	Floor noise
Hori.	13875.600	PK	43.3	38.9	-0.7	32.2	49.3	-46.0	-48.1	-13.0	35.1	Floor noise
Hori.	17344.500	PK	40.9	39.9	0.1	32.4	48.5	-46.8	-48.9	-13.0	35.9	Floor noise
Vert.	41.771	PK	37.3	14.2	7.2	32.1	26.5	-68.7	-70.9	-13.0	57.9	
Vert.	79.219	PK	40.2	6.8	7.7	32.1	22.6	-72.6	-74.8	-13.0	61.8	
Vert.	91.759	PK	37.3	8.9	7.8	32.1	21.9	-73.3	-75.5	-13.0	62.5	
Vert.	101.698	PK	38.2	10.6	7.9	32.1	24.6	-70.6	-72.8	-13.0	59.8	
Vert.	237.339	PK	39.0	11.5	9.1	32.0	27.6	-67.7	-69.8	-13.0	56.8	
Vert.	279.998	PK	31.3	13.3	9.4	32.0	22.0	-73.3	-75.4	-13.0	62.4	
Vert.	6937.800	PK	43.0	35.0	11.6	31.9	57.7	-37.6	-39.7	-13.0	26.7	Floor noise
Vert.	10406.700	PK	41.7	35.9	-1.7	32.6	43.4	-51.9	-54.0	-13.0	41.0	Floor noise
Vert.	13875.600	PK	39.0	38.9	-0.7	32.2	45.1	-50.2	-52.4	-13.0	39.4	Floor noise
Vert.	17344.500	PK	43.5	39.9	0.1	32.4	51.2	-44.1	-46.3	-13.0	33.3	Floor noise

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

EIRP = E + 20*log(D) -104.8

ERP =EIRP -2.15

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

Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Spurious Emission

Test place	Ise EMC Lab.		
Semi Anechoic Chamber	No.4	No.4	No.4
Date	April 10, 2024	April 11, 2024	April 11, 2024
Temperature / Humidity	20 deg. C / 36 % RH	20 deg. C / 45 % RH	22 deg. C / 42 % RH
Engineer	Kiyoshiro Okazaki (1 GHz to 26.5 GHz)	Takafumi Noguchi (26.5 GHz to 40 GHz)	Kiyoshiro Okazaki (Below 1 GHz)
Mode	LTE Band 42, 3500 MHz, BW 20 MHz, QPSK, RB1 Start99		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	EIRP [dBm]	ERP [dBm]	Limit [dBm]	Margin [dB]	Remark
Hori.	43.543	PK	30.6	13.6	7.2	32.1	19.2	-76.0	-78.2	-13.0	65.2	
Hori.	78.682	PK	30.5	6.8	7.6	32.1	12.8	-82.5	-84.6	-13.0	71.6	
Hori.	96.548	PK	29.4	9.7	7.8	32.1	14.8	-80.4	-82.6	-13.0	69.6	
Hori.	104.981	PK	29.0	11.1	7.9	32.1	15.9	-79.3	-81.5	-13.0	68.5	
Hori.	237.342	PK	36.5	11.5	9.1	32.0	25.1	-70.2	-72.4	-13.0	59.4	
Hori.	279.949	PK	30.2	13.3	9.4	32.0	21.0	-74.3	-76.5	-13.0	63.5	
Hori.	7017.800	PK	42.9	35.2	11.4	31.9	57.5	-37.8	-39.9	-13.0	26.9	Floor noise
Hori.	10526.700	PK	40.9	36.2	-1.6	32.6	42.8	-52.4	-54.6	-13.0	41.6	Floor noise
Hori.	14035.600	PK	41.3	39.1	-0.6	32.2	47.6	-47.7	-49.9	-13.0	36.9	Floor noise
Hori.	17544.500	PK	42.7	40.1	0.1	32.3	50.5	-44.8	-46.9	-13.0	33.9	Floor noise
Vert.	43.583	PK	36.5	13.5	7.2	32.1	25.1	-70.1	-72.3	-13.0	59.3	
Vert.	78.663	PK	40.2	6.8	7.6	32.1	22.5	-72.7	-74.9	-13.0	61.9	
Vert.	96.538	PK	36.9	9.7	7.8	32.1	22.4	-72.9	-75.0	-13.0	62.0	
Vert.	104.938	PK	38.0	11.1	7.9	32.1	24.9	-70.3	-72.5	-13.0	59.5	
Vert.	237.337	PK	38.4	11.5	9.1	32.0	27.0	-68.2	-70.4	-13.0	57.4	
Vert.	279.998	PK	31.2	13.3	9.4	32.0	22.0	-73.3	-75.4	-13.0	62.4	
Vert.	7017.800	PK	44.4	35.2	11.4	31.9	59.0	-36.2	-38.4	-13.0	25.4	Floor noise
Vert.	10526.700	PK	40.3	36.2	-1.6	32.6	42.2	-53.0	-55.2	-13.0	42.2	Floor noise
Vert.	14035.600	PK	41.9	39.1	-0.6	32.2	48.1	-47.2	-49.3	-13.0	36.3	Floor noise
Vert.	17544.500	PK	44.4	40.1	0.1	32.3	52.2	-43.0	-45.2	-13.0	32.2	Floor noise

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

EIRP = E + 20*log(D) -104.8

ERP =EIRP -2.15

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

Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Spurious Emission

Test place	Ise EMC Lab.		
Semi Anechoic Chamber	No.4	No.4	No.4
Date	April 10, 2024	April 11, 2024	April 11, 2024
Temperature / Humidity	20 deg. C / 36 % RH	20 deg. C / 45 % RH	22 deg. C / 42 % RH
Engineer	Kiyoshiro Okazaki (1 GHz to 26.5 GHz)	Takafumi Noguchi (26.5 GHz to 40 GHz)	Kiyoshiro Okazaki (Below 1 GHz)
Mode	LTE Band 42, 3540 MHz, BW 20 MHz, QPSK, RB1 Start99		

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	EIRP [dBm]	ERP [dBm]	Limit [dBm]	Margin [dB]	Remark
Hori.	42.248	PK	31.0	14.0	7.2	32.1	20.1	-75.1	-77.3	-13.0	64.3	
Hori.	80.305	PK	30.1	7.0	7.7	32.1	12.7	-82.6	-84.7	-13.0	71.7	
Hori.	94.172	PK	29.2	9.3	7.8	32.1	14.2	-81.1	-83.2	-13.0	70.2	
Hori.	102.350	PK	29.0	10.7	7.9	32.1	15.5	-79.8	-81.9	-13.0	68.9	
Hori.	236.638	PK	36.9	11.5	9.1	32.0	25.5	-69.8	-71.9	-13.0	58.9	
Hori.	319.980	PK	29.3	14.2	9.7	32.0	21.2	-74.1	-76.3	-13.0	63.3	
Hori.	7097.800	PK	44.4	35.4	11.4	32.0	59.2	-36.1	-38.2	-13.0	25.2	Floor noise
Hori.	10646.700	PK	40.3	36.7	-1.6	32.7	42.8	-52.5	-54.7	-13.0	41.7	Floor noise
Hori.	14195.600	PK	41.5	39.2	-0.6	32.2	47.9	-47.4	-49.6	-13.0	36.6	Floor noise
Hori.	17744.500	PK	43.3	40.2	0.2	32.3	51.3	-44.0	-46.1	-13.0	33.1	Floor noise
Vert.	42.887	PK	37.2	13.8	7.2	32.1	26.1	-69.1	-71.3	-13.0	58.3	
Vert.	80.582	PK	40.1	7.0	7.7	32.1	22.7	-72.5	-74.7	-13.0	61.7	
Vert.	94.356	PK	37.9	9.3	7.8	32.1	23.0	-72.3	-74.5	-13.0	61.5	
Vert.	102.324	PK	38.5	10.7	7.9	32.1	24.9	-70.3	-72.5	-13.0	59.5	
Vert.	236.668	PK	39.1	11.5	9.1	32.0	27.7	-67.6	-69.7	-13.0	56.7	
Vert.	319.980	PK	30.4	14.2	9.7	32.0	22.2	-73.1	-75.2	-13.0	62.2	
Vert.	7097.800	PK	44.0	35.4	11.4	32.0	58.8	-36.5	-38.6	-13.0	25.6	Floor noise
Vert.	10646.700	PK	40.6	36.7	-1.6	32.7	43.0	-52.2	-54.4	-13.0	41.4	Floor noise
Vert.	14195.600	PK	41.9	39.2	-0.6	32.2	48.3	-46.9	-49.1	-13.0	36.1	Floor noise
Vert.	17744.500	PK	43.8	40.2	0.2	32.3	51.9	-43.4	-45.5	-13.0	32.5	Floor noise

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

EIRP = E + 20*log(D) -104.8

ERP =EIRP -2.15

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

Distance factor:	1 GHz - 6 GHz	20log (3.8 m / 3.0 m) = 2.06 dB
	6 GHz - 10 GHz	20log (4.8 m / 3.0 m) = 4.09 dB
	10 GHz - 40 GHz	20log (1.0 m / 3.0 m) = -9.5 dB

Frequency Stability (Voltage Variation)

Test place Ise EMC Lab.
Measurement Room No.10
Date April 26, 2024
Temperature / Humidity 23 deg. C / 50 % RH
Engineer Hiroki Numata
Mode LTE Band 42

BW [MHz]	Temperature [°C]	Voltage [V]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Occupied bandwidth [MHz]	Frequency Error [kHz]	Result Lower edge [MHz]	Result Upper edge [MHz]	Limit Lower edge [MHz]	Limit Upper edge [MHz]	Remarks
5	20	AC 102	42115	3452.5	QPSK	25	0	4.6027	0.138	3450.199	3454.801	3450	3550	- 15 %
	20	AC 120	42115	3452.5	QPSK	25	0	4.6033	-3.301	3450.195	3454.798	3450	3550	Reference
	20	AC 138	42115	3452.5	QPSK	25	0	4.6070	-3.129	3450.193	3454.800	3450	3550	+ 15 %
	20	DC 9.18	42115	3452.5	QPSK	25	0	4.5931	3.600	3450.207	3454.800	3450	3550	- 15 %
	20	DC 10.8	42115	3452.5	QPSK	25	0	4.5886	7.247	3450.213	3454.802	3450	3550	Reference
	20	DC 12.42	42115	3452.5	QPSK	25	0	4.5926	2.514	3450.206	3454.799	3450	3550	+ 15 %
	20	DC 7.5	42115	3452.5	QPSK	25	0	4.5884	4.645	3450.210	3454.799	3450	3550	End point

BW [MHz]	Temperature [°C]	Voltage [V]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Occupied bandwidth [MHz]	Frequency Error [kHz]	Result Lower edge [MHz]	Result Upper edge [MHz]	Limit Lower edge [MHz]	Limit Upper edge [MHz]	Remarks
5	20	AC 102	43065	3547.5	QPSK	25	0	4.5766	14.852	3545.227	3549.803	3450	3550	- 15 %
	20	AC 120	43065	3547.5	QPSK	25	0	4.5811	13.862	3545.223	3549.804	3450	3550	Reference
	20	AC 138	43065	3547.5	QPSK	25	0	4.5798	16.252	3545.226	3549.806	3450	3550	+ 15 %
	20	DC 9.18	43065	3547.5	QPSK	25	0	4.6016	7.387	3545.207	3549.808	3450	3550	- 15 %
	20	DC 10.8	43065	3547.5	QPSK	25	0	4.6002	3.311	3545.203	3549.803	3450	3550	Reference
	20	DC 12.42	43065	3547.5	QPSK	25	0	4.5996	4.720	3545.205	3549.805	3450	3550	+ 15 %
	20	DC 7.5	43065	3547.5	QPSK	25	0	4.5973	6.893	3545.208	3549.806	3450	3550	End point

Lower edge(Result) = Freq. - Occupied bandwidth / 2 + Frequency Error
Upper edge(Result) = Freq. + Occupied bandwidth / 2 + Frequency Error

Frequency Stability (Temperature Variation)

Test place Ise EMC Lab.
Measurement Room No.8
Date May 7, 2024
Temperature / Humidity 24 deg. C / 50 % RH
Engineer Takafumi Noguchi
Mode LTE Band 42

BW [MHz]	Temperature [°C]	Voltage [V]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Occupied bandwidth [MHz]	Frequency Error [kHz]	Result Lower edge [MHz]	Result Upper edge [MHz]	Limit Lower edge [MHz]	Limit Upper edge [MHz]	Remarks
5	20	AC 120	42115	3452.5	QPSK	25	0	4.6115	-9.304	3450.185	3454.796	3450	3550	Reference
	50	AC 120	42115	3452.5	QPSK	25	0	4.6078	-1.137	3450.195	3454.803	3450	3550	
	40	AC 120	42115	3452.5	QPSK	25	0	4.6367	-14.933	3450.167	3454.803	3450	3550	
	30	AC 120	42115	3452.5	QPSK	25	0	4.6113	-7.315	3450.187	3454.798	3450	3550	
	20	AC 120	42115	3452.5	QPSK	25	0	4.6133	-9.590	3450.184	3454.797	3450	3550	
	10	AC 120	42115	3452.5	QPSK	25	0	4.6050	3.369	3450.201	3454.806	3450	3550	
	0	AC 120	42115	3452.5	QPSK	25	0	4.6141	-7.527	3450.185	3454.800	3450	3550	
	-10	AC 120	42115	3452.5	QPSK	25	0	4.6513	9.543	3450.184	3454.835	3450	3550	
	-20	AC 120	42115	3452.5	QPSK	25	0	4.6162	1.488	3450.193	3454.810	3450	3550	
	-30	AC 120	42115	3452.5	QPSK	25	0	4.6456	-10.598	3450.167	3454.812	3450	3550	

BW [MHz]	Temperature [°C]	Voltage [V]	UL Ch #	Freq. [MHz]	Modulation	UL RB Allocation	UL RB Start	Occupied bandwidth [MHz]	Frequency Error [kHz]	Result Lower edge [MHz]	Result Upper edge [MHz]	Limit Lower edge [MHz]	Limit Upper edge [MHz]	Remarks
5	20	AC 120	43065	3547.5	QPSK	25	0	4.5934	-7.862	3545.195	3549.789	3450	3550	Reference
	50	AC 120	43065	3547.5	QPSK	25	0	4.6092	-6.991	3545.188	3549.798	3450	3550	
	40	AC 120	43065	3547.5	QPSK	25	0	4.5958	0.976	3545.203	3549.799	3450	3550	
	30	AC 120	43065	3547.5	QPSK	25	0	4.6196	3.238	3545.193	3549.813	3450	3550	
	20	AC 120	43065	3547.5	QPSK	25	0	4.5932	-7.049	3545.196	3549.790	3450	3550	
	10	AC 120	43065	3547.5	QPSK	25	0	4.6175	-1.966	3545.189	3549.807	3450	3550	
	0	AC 120	43065	3547.5	QPSK	25	0	4.6001	-10.783	3545.189	3549.789	3450	3550	
	-10	AC 120	43065	3547.5	QPSK	25	0	4.6606	7.340	3545.177	3549.838	3450	3550	
	-20	AC 120	43065	3547.5	QPSK	25	0	4.6564	6.026	3545.178	3549.834	3450	3550	
	-30	AC 120	43065	3547.5	QPSK	25	0	4.6541	11.169	3545.184	3549.838	3450	3550	

Lower edge(Result) = Freq. - Occupied bandwidth / 2 + Frequency Error
Upper edge(Result) = Freq. + Occupied bandwidth / 2 + Frequency Error

APPENDIX 2: Test instruments

Test Equipment (1/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	88581	Thermo-Hygrometer	CUSTOM. Inc	CTH-201	-	07/18/2023	12
AT	141223	Attenuator	Weinschel Associates	WA56-10	56100306	05/18/2023	12
AT	141312	Attenuator	Weinschel Associates	WA56-10	56100304	05/18/2023	12
AT	141338	Attenuator	Weinschel Associates	WA1-20-33	100130	04/03/2024	12
AT	141420	Attenuator	Weinschel Associates	WA56-10	56100307	05/18/2023	12
AT	141440	Temperature and Humidity Chamber	Espec	PL-1KP	14019569	04/09/2024	12
AT	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/01/2023	12
AT	141548	DIGIITAL HiTESTER	HIOKI E.E. CORPORATION	3805	070500636	05/29/2023	12
AT	141557	DIGIITAL HiTESTER	HIOKI E.E. CORPORATION	3805	070900530	01/31/2024	12
AT	141558	Digital Tester(TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/29/2023	12
AT	141590	PowerDivider DC to 26.5GHz	Keysight Technologies Inc	11636B	52258	03/01/2024	12
AT	141591	Power Divider DC-12.4GHz	Suhner	4901.19.A	-	05/26/2023	12
AT	141592	Power Divider DC-12.4GHz	Suhner	4901.19.A	-	05/26/2023	12
AT	141810	Power Meter	Anritsu Corporation	ML2495A	824014	12/12/2023	12
AT	141832	Power sensor	Anritsu Corporation	MA2411B	738174	12/12/2023	12
AT	141901	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY48250080	01/26/2024	12
AT	141903	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186390	01/26/2024	12
AT	182484	Signal Analyzer	Keysight Technologies Inc	N9030B	MY57143159	05/09/2024	12
AT	195231	Microwave Cable	Huber+Suhner	SF102D/11PC24/11PC24/1000mm	537062/126E	02/13/2024	12
AT	196430	Microwave Cable	Huber+Suhner	SF102D/11PC24/11PC24/1000mm	537059/126EA	02/26/2024	12
AT	197219	Microwave cable	Huber+Suhner	SF126E/11PC35/11PC35/2000MM	536999/126E	03/19/2024	12
AT	197220	Microwave cable	Huber+Suhner	SF126E/11PC35/11PC35/2000MM	537003/126E	03/14/2024	12
AT	212970	Signal Analyzer	Keysight Technologies Inc	N9030B	MY61330357	12/26/2023	12
AT	214036	UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	MY61349831	-	-
AT	227032	Power Meter	Raditeq (Formerly DARE!! Instruments)	RPR3008W	RPR8W-2201002	02/01/2024	12
AT	230439	Automated EMC/RF Freeware	Raditeq (Formerly DARE!! Instruments)	RadiMation Free	2022.2.3	-	-
AT	244707	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202102	01/25/2024	12
AT	244711	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202105	01/25/2024	12
RE	141227	Microwave Cable	Junkosha	MMX221-00500DMSDMS	1502S305	03/04/2024	12
RE	141267	Logperiodic Antenna (200-1000MHz)	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	9111B-192	09/21/2023	12
RE	141294	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCC	603	02/15/2024	12
RE	141331	Attenuator(6dB)	TME	UFA-01	-	02/17/2024	12
RE	141397	Coaxial Cable	UL Japan	-	-	11/22/2023	12
RE	141425	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	VHA9103+BBA9106	VHA 91031302	08/10/2023	12
RE	141506	Horn Antenna 15-40GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9170	BBHA9170307	08/09/2023	12
RE	141508	Horn Antenna 1-18GHz	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	557	05/17/2023	12
RE	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/20/2023	12
RE	141545	DIGITAL HiTESTER	HIOKI E.E. CORPORATION	3805	51201148	02/01/2024	12

Test Equipment (2/2)

Test Item	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	141581	MicroWave System Amplifier	Keysight Technologies Inc	83017A	00650	10/05/2023	12
RE	141583	Pre Amplifier	SONOMA INSTRUMENT	310	260833	04/04/2024	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	141902	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46187105	05/23/2023	12
RE	141904	Spectrum Analyzer	Keysight Technologies Inc	N9030A	US51350215	11/08/2023	12
RE	141959	Radio Communication Analyzer	Anritsu Corporation	MT8821C	6201547850	-	-
RE	142011	AC4_Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	12/13/2023	24
RE	142017	AC4_Semi Anechoic Chamber(SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-10005	10/11/2023	12
RE	142230	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	214036	UXM 5G Wireless Test Platform	Keysight Technologies Inc	E7515B	MY61349831	-	-
RE	234602	Microwave Cable	Huber+Suhner	SF126E/11PC35/11PC35/1000M,5000M	537063/126E / 537074/126E	03/08/2024	12
RE	244710	Thermo-Hygrometer	HIOKI E.E. CORPORATION	LR5001	231202104	01/25/2024	12
RE	245788	Double Ridge Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	690	03/06/2024	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:

AT: Antenna Terminal Conducted tests

RE: Spurious Emission