

EVALUATION REPORT

Applicant Name:
SAMSUNG Electronics Co., Ltd.

Date of Issue:
July 16, 2025

Address:
129, Samsung-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Location:
HCT CO., LTD.,
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si,
Gyeonggi-do, Republic of Korea

FCC ID: **A3LSMS731B**

APPLICANT: **SAMSUNG Electronics Co., Ltd.**

Equipment Class(es) : PCE, DSS, DTS, UNII, DXX, DCD, 6CD, 6VL
FCC Rule Part(s) : 15
Application's Statement : The applicant takes full responsibility that the test data referenced below
Represents compliance for this FCC ID.
Test Reference : KDB 484596 D01 Referencing Test Data v03

The detail test data can be found in this documents, Appendix A.

Category	Spot Check	Verdict
Unlicensed EMC	Conducted output Power	Share
	Radiated Band Edge	Share
	Radiated Spurious Emissions	Share
	Radiated Field Strength	Share

The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the Cross Reference Table. The detail test data can be found in this documents, Appendix A.

Difference between Parent and Variant : For detailed changes, please refer to the manufacturer's technical documentation.



Report prepared by : Jeong Ho Kim

Engineer of Telecommunication testing center



Approved by : Jong Seok Lee

Manager of Telecommunication testing center

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	July 15, 2025	Initial Release
1	July 16, 2025	Revised the typo Page 7, 18

1. Cross Reference Table (Unlicensed EMC)

1) Data referencing

- [BT], [BT LE 5.4], [UNII], [UNII ax], [UNII 6G], [DTS], [DTS ax], [WPT], [DFS] Test Report

2) Additional test

- [DTS] Test Report → 802.11b, g, n, ac Ch.12 ~ Ch.13.

- [DTS ax] Test Report → 802.11ax Ch.12 ~ Ch.13.

3) Full test

- [NFC] Test Report

Equipment Class	Rule Part	Test item	Data Referencing	Comments
DSS (BT)	15.247(a)(1)	20 dB Bandwidth	Y	-
	N/A	Occupied Bandwidth	Y	-
	15.247(b)(1)	Conducted Maximum Peak Output Power	Y	Spot-check
	15.247(a)(1)	Carrier Frequency Separation	Y	-
	15.247(a)(1)(iii)	Number of Hopping Frequencies	Y	-
	15.247(a)(1)(iii)	Time of Occupancy	Y	-
	15.247(d)	Conducted Spurious Emissions	Y	-
	15.247(d)	Band Edge (Out of Band Emissions)	Y	-
	15.207(a)	AC Power line Conducted Emissions	Y	-
	15.247(d), 15.205, 15.209	Radiated Spurious Emissions	Y	Spot-check
	15.247(d), 15.205, 15.209	Radiated Restricted Band Edge	Y	Spot-check

Equipment Class	Rule Part	Test item	Data Referencing	Comments
DTS (BTLE) (WLAN 2.4GHz)	15.247(a)(2)	6 dB Bandwidth	Y	-
	15.247(b)(3)	Conducted Maximum output power	Y	Spot-check
	15.247(e).	Power Spectral Density	Y	-
	15.247(d)	Band Edge (Out of Band Emissions)	Y	-
	15.207	AC Power line conducted Emissions	Y	-
	15.247(d) 15.205 15.209	Radiated Spurious Emissions	Y	Spot-check
	15.247(d) 15.205 15.209	Radiated Restricted Band Edge	Y	Spot-check

Equipment Class	Rule Part	Test item	Data Referencing	Comments
DCD (WPT)	2.1049	Emission bandwidth.	Y	-
	15.209	Radiated emission	Y	Spot-check
	15.207	AC Power Line Conducted Emission	Y	-

Equipment Class	Rule Part	Test item	Data Referencing	Comments
DXX (NFC)	Part 15.225 (a), (b), (c)	Radiated Electric Field Emissions	N	Full test
	Part 15.209	Radiated Electric Field Emissions	N	Full test
	Part 15.225 (e)	Frequency Stability	N	Full test
	Part 15.207	AC power conducted emissions	N	Full test
	Part 15.215 (c)	20 dB Bandwidth	N	Full test

Equipment Class	Rule Part	Test item	Data Referencing	Comments
UNII (WLAN 5GHz)	§ 15.407 (for Power Measurement)	26 dB Bandwidth	Y	-
	15.407(e)	6 dB Bandwidth	Y	-
	§ 15.407(a)(1),(2),(3)	Maximum Conducted output power	Y	Spot-check
	§ 15.407(a)(3)(iii)	Maximum EIRP Output Power	Y	-
	§ 15.407(a)(1),(2),(3)	Maximum Power Spectral Density	Y	-
	15.207 15.407(b)(8)	AC conducted Emission	Y	-
	§ 15.407(g) § 2.1055	Frequency Stability	Y	-
	§ 15.407(b) (1),(2),(3),(4) § 15.407(b)(5)(ii),(iii) § 15.35(b)	Undesirable Emissions	Y	Spot-check
	15.205, 15.407(b)(9),(10)	General Field Strength (Restricted bands and Radiated emission)	Y	Spot-check
	15.407(h)	DFS	Y	-

Equipment Class	Rule Part	Test item	Data Referencing	Comments
6CD & 6VL (WLAN 6GHz)	§ 15.407(a)(10)	26dB Bandwidth	Y	-
	§ 15.407(a)(10)	99% Bandwidth	Y	-
	§ 15.407(a)(4)	Output Power Maximum EIRP	Y	Spot-check
	§ 15.407(a)(4)	Output Power Maximum EIRP Power Spectral Density	Y	-
	15.407 (b)(9)	AC Conducted Emissions	Y	-
	§ 15.407(d)(6)	Contention Based Protocol	Y	-
	§ 15.407(g)	Frequency Stability	Y	-
	§ 15.407(a)(7)	Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point	Y	-
	§ 15.407(a)(7) § 15.407(a)(8)	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	Y	-
	§ 15.407(b)(7)	In-Band Emissions (Emissions Mask)	Y	-
	§ 15.407(b)	Undesirable Emissions	Y	Spot-check
	15.205, 15.407(b)(9),(10)	General Field Strength Limits(Restricted Bands and Radiated Emission Limits)	Y	Spot-check

1. Summary of the spot check for Unlicensed EMC

1.1 Radiated Spot Check Result

Report	Test Item	Mod/Channel	Measured Frequency [MHz]	A3LSMS731U Result [dBμV/m]		A3LSMS731B Result [dBμV/m]		Deviation (dB)	
				Peak	Average	Peak	Average	Peak	Average
BT	Band Edge (ANT2)	Band Edge (ANT2)	3-DH5/Ch.78	61.92	37.19	59.01	34.28	-2.91	-2.91
	RSE (ANT ALL)	RSE (ANT ALL)	DH5/Ch.78 (Core : Dual)	57.67	32.94	58.95	34.22	1.28	1.28
DTS	Band Edge (ANT ALL)	Band Edge (ANT ALL)	802.11ac(20M) MCS0/ch. 11	68.73	51.77	68.11	51.87	-0.62	0.10
	RSE (ANT ALL)	RSE (ANT ALL)	802.11b 1 Mbps/ch. 11	52.81	40.57	52.66	40.32	-0.15	-0.25
DTS(ax)	Band Edge (ANT ALL)	Band Edge (ANT ALL)	802.11ax(HE20)242T RU61_MCS0/ch. 11	71.72	51.80	71.12	50.83	-0.60	-0.97
	RSE (ANT ALL)	RSE (ANT ALL)	802.11ax(HE 20)242T RU61 MCS0/ch. 11	52.04	40.65	52.05	40.24	0.01	-0.41
BT(LE)	Band Edge (ANT ALL)	Band Edge (ANT ALL)	1M37byte/Ch.39 (Core : Dual)	60.52	46.69	58.54	45.21	-1.98	-1.48
	RSE (Ant ALL)	RSE (Ant ALL)	1M37byte/Ch.37 (Core : Dual)	54.10	43.78	54.67	44.16	0.57	0.38
UNII	Band Edge (ANT ALL)	Band Edge (ANT ALL)	802.11ac(80M) MCS0/ch.42	65.35	51.72	65.26	51.72	-0.09	0.00
	RSE (ANT ALL)	RSE (ANT ALL)	802.11a 6Mbps/ch. 36	65.06	-	64.24	-	-0.82	-
UNII(ax)	Band Edge (ANT ALL)	802.11ax(HE20) 106T RU53 MCS0/ch.100	# 5350 MHz ~ 5460 MHz	61.79	44.99	59.74	45.02	-2.05	0.03
			# 5460 MHz ~ 5470 MHz	65.56	-	63.27	-	-2.29	-
	RSE (ANT ALL)	802.11ax(HE20)_242T RU61 MCS0/ch.40	10400 MHz	62.73	-	60.60	-	-2.13	-
UNII 6e(ax)	Band Edge (ANT ALL)	802.11ax (HE20) SU MCS0/ch.2	# 5924.5 MHz	78.72	66.04	77.15	64.36	-1.57	-1.68
	RSE (ANT ALL)	802.11ax HE40(SU)_MCS0/Ch.3	17895 MHz (3rd Harmonic)	58.58	47.87	59.13	48.28	0.55	0.41
WPT	Field Strength	Power Sharing	110 ~ 148 kHz	-2.20		-2.03		0.17	
	RSE		490 kHz ~ 1.705 MHz	5.81		4.63		-1.18	

: DTS integration method Used (ANSI C63.10 Section11.13.3), UNII integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

1.2 Conducted Spot Check Result

Report	Test Item	Mod/Channel	Measured Frequency [MHz]	A3LSMS731U Result [dBm]		A3LSMS731B Result [dBm]		Deviation (dB)	
				Peak	Average	Peak	Average	Peak	Average
BT	Conducted Output Power	DH5 (ANT2)	2441 MHz	20.01	-	18.88	-	-1.12	-
BT(LE)		1M 37Byte (ANT2)	2440 MHz	-	19.64	-	19.01	-	-0.63
DTS		802.11g 6 Mbps	2437 MHz	-	21.15	-	20.98	-	-0.17
DTS(ax)		802.11ax(HE20) SU MCS0	2437 MHz	-	20.07	-	19.44	-	-0.63
UNII		802.11a 6 Mbps / ch.48	5240 MHz	-	17.96	-	17.85	-	-0.11
UNII(ax)		802.11ax(HE20) SU MCS0 / ch.48	5240 MHz	-	18.85	-	18.36	-	-0.49
UNII 6e(ax)		802.11ax(HE20) SP SU MCS0 / ch.45	6175 MHz	-	19.42	-	18.60	-	-0.82

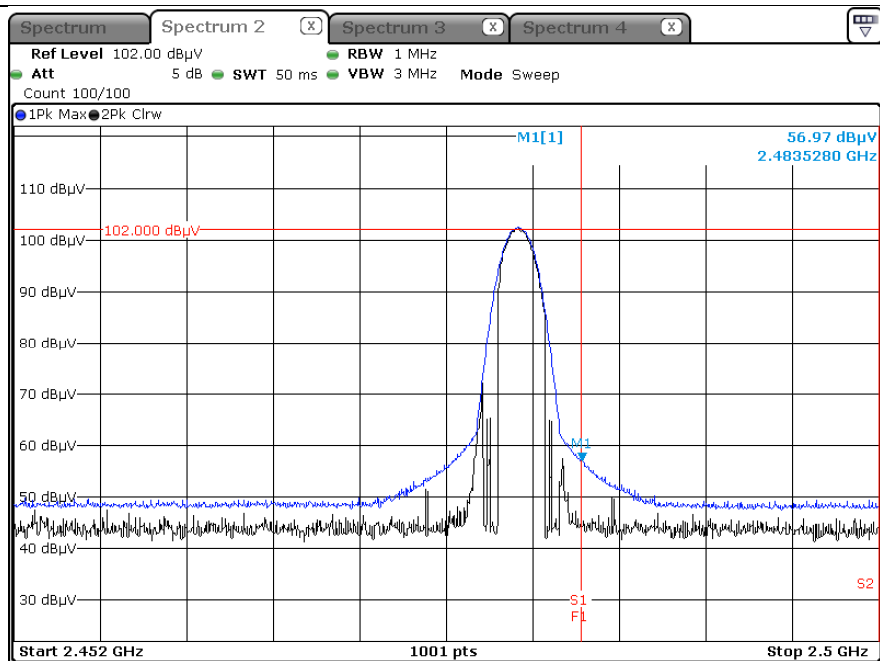
3. TEST RESULT

BT Band Edge (3-DH5/Ch.78 (Ant2))

Frequency	Measured Value	A.F+C.L-A.G +ATT+D.F	ANT. POL	Duty Cycle Correction	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB]	[H/V]	[dB]	[dBμV/m]	[dBμV/m]	[dB]	
2483.5	56.97	2.04	H	0	59.01	73.98	14.97	PK
2483.5	56.97	2.04	H	-24.73	34.28	53.98	19.70	AV

■ Test Plot

[Peak & Average Result]

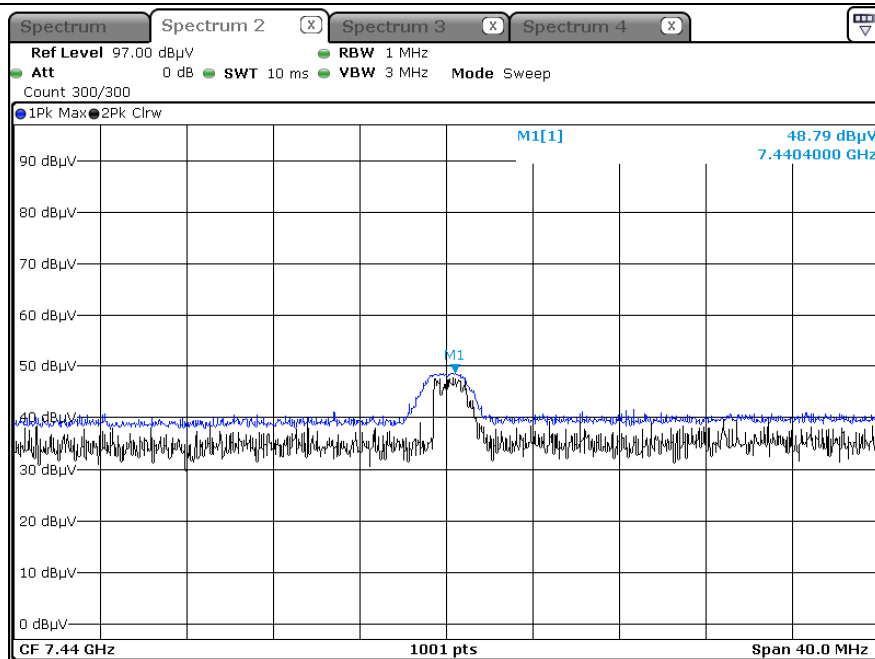


BT R.S.E Harmonic(DH5/Ch.78 (Core : Dual))

Frequency	Measured Value	A.F+C.L -A.G+D.F	ANT. POL	Duty Cycle Correction	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB/m]	[H/V]	[dB]	[dBμV/m]	[dBμV/m]	[dB]	
4960	44.69	3.48	V	0.00	48.17	73.98	25.81	PK
4960	44.69	3.48	V	-24.73	23.44	53.98	30.54	AV
7440	48.68	10.16	V	0.00	58.84	73.98	15.14	PK
7440	48.68	10.16	V	-24.73	34.11	53.98	19.87	AV
4960	45.01	3.48	H	0.00	48.49	73.98	25.49	PK
4960	45.01	3.48	H	-24.73	23.76	53.98	30.22	AV
7440	48.79	10.16	H	0.00	58.95	73.98	15.03	PK
7440	48.79	10.16	H	-24.73	34.22	53.98	19.76	AV

Test Plot

[Peak & Average Result]

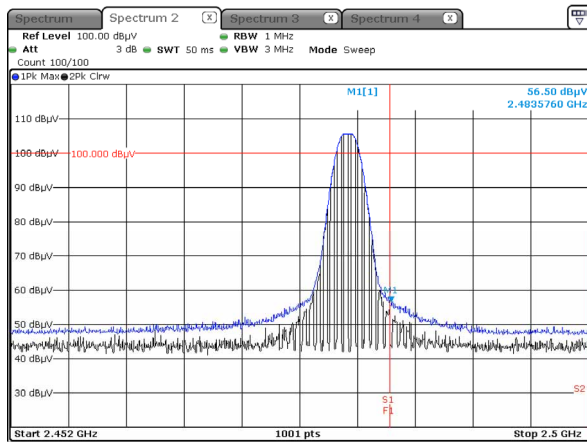


BT LE Band Edge (1M37byte/Ch.39 (Core : Dual))

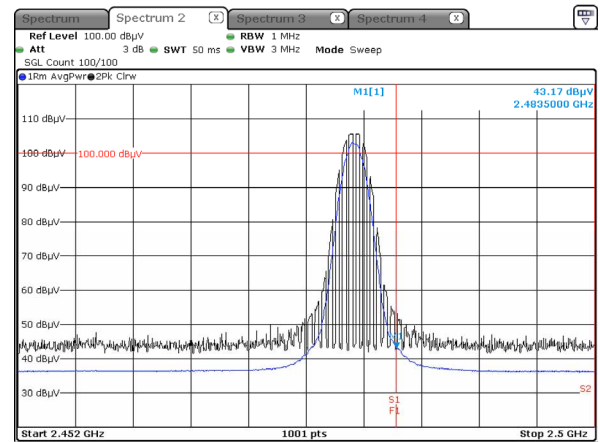
Frequency	Measured Value	A.F+C.L-A.G +ATT+D.F	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
2483.5	56.50	2.04	H	58.54	73.98	15.44	PK
2483.5	43.17	2.04	H	45.21	53.98	8.77	AV

■ Test Plot

[Peak Result]



[Average Result]

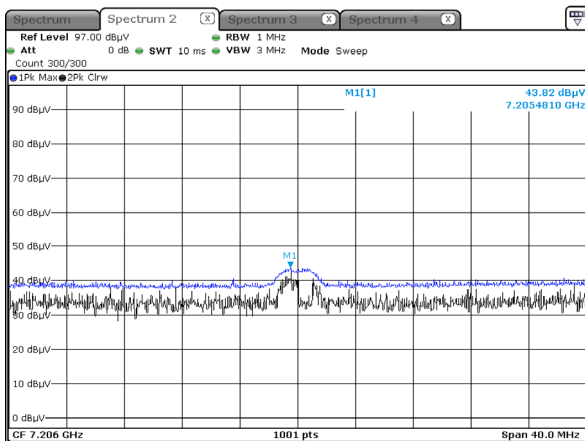


BT LE R.S.E Harmonic(1M37byte/Ch.37 (Core : Dual))

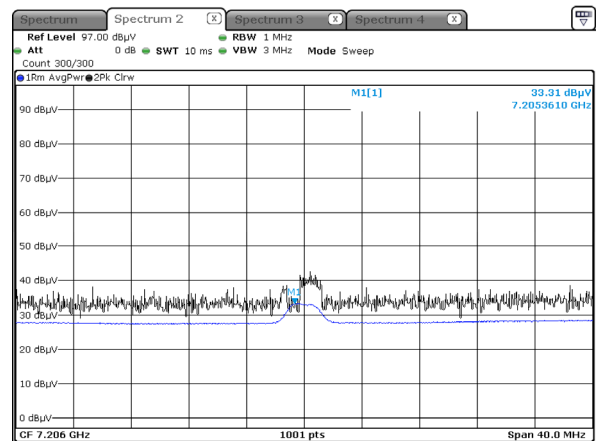
Frequency	Measured Value	A.F+C.L -A.G+D.F	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
4804	43.99	2.26	V	46.25	73.98	27.73	PK
4804	32.29	2.26	V	34.55	53.98	19.43	AV
7206	42.55	10.85	V	53.40	73.98	20.58	PK
7206	32.59	10.85	V	43.44	53.98	10.54	AV
7206	44.43	2.26	H	46.69	73.98	27.29	PK
7206	32.34	2.26	H	34.60	53.98	19.38	AV
7206	43.82	10.85	H	54.67	73.98	19.31	PK
7206	33.31	10.85	H	44.16	53.98	9.82	AV

Test Plot

[Peak Result]



[Average Result]



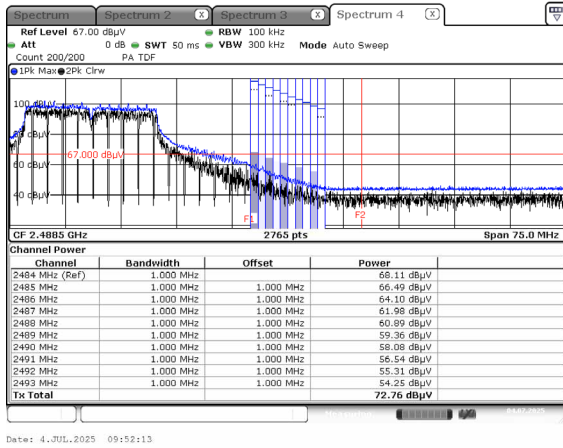
DTS Band Edge (ANT ALL) (MIMO, 802.11ac(20M) MCS0/ch. 11)

Frequency	Measured Value	Duty Cycle Factor	A.F.+C.L+D.F	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB]	[dB]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
#2483.5	68.11	0.00	-	H	68.11	73.98	5.87	PK
#2483.5	51.56	0.31	-	H	51.87	53.98	2.11	AV

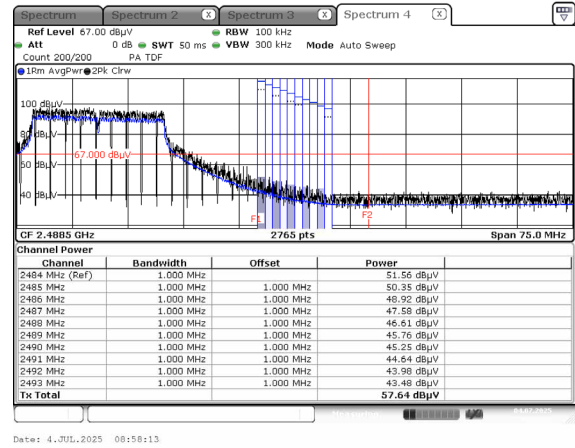
- The offset = Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)

Test Plot

[Peak Result]



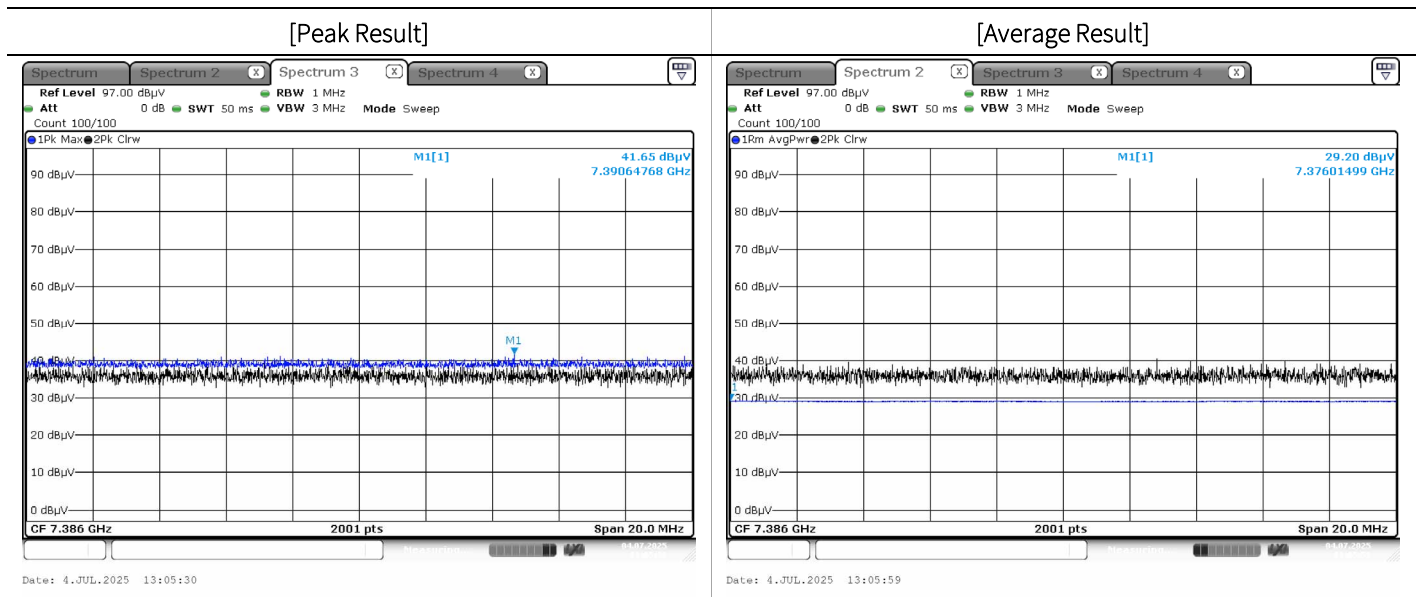
[Average Result]



DTS R.S.E Harmonic (ANT ALL) (MIMO, 802.11b 1 Mbps/ch. 11)

Band :	DTS		Operation Mode :		802.11b			
CH.11	2462	MHz	Transfer Rate :		1 Mbps			
Frequency	Measured value	D.C.F	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBμV]	[dB]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	Type
4924	42.51	0.00	3.45	V	45.96	73.98	28.02	PK
4924	31.50	0.00	3.45	V	34.95	53.98	19.03	AV
7386	41.65	0.00	11.22	V	52.87	73.98	21.11	PK
7386	29.20	0.00	11.22	V	40.42	53.98	13.56	AV
4924	42.16	0.00	3.45	H	45.61	73.98	28.37	PK
4924	31.28	0.00	3.45	H	34.73	53.98	19.25	AV
7386	41.44	0.00	11.22	H	52.66	73.98	21.32	PK
7386	29.10	0.00	11.22	H	40.32	53.98	13.66	AV

■ Test Plot

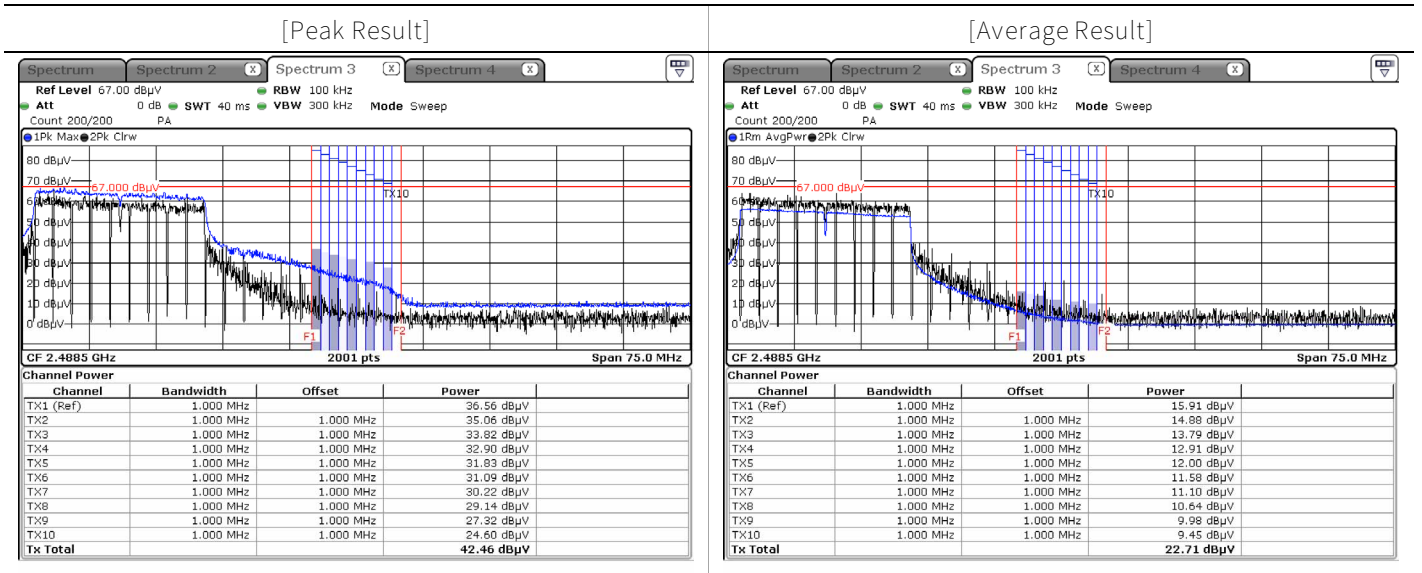


DTS ax Band Edge (ANT ALL) (MIMO, 802.11ax(HE20)242T RU61_MCS0/ch. 11)

Frequency	Measured Value	Duty Cycle Factor	A.F.+C.L+D.F	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
#2483.5~2493.5	36.56	0.00	34.56	H	71.12	73.98	2.86	PK
#2483.5~2493.5	15.91	0.36	34.56	H	50.83	53.98	3.15	AV
2493.5~2500	30.25	0.00	34.56	H	64.81	73.98	9.17	PK
2493.5~2500	9.66	0.36	34.56	H	44.58	53.98	9.40	AV

Note : integration method Used (ANSI C63.10 Section11.13.3)

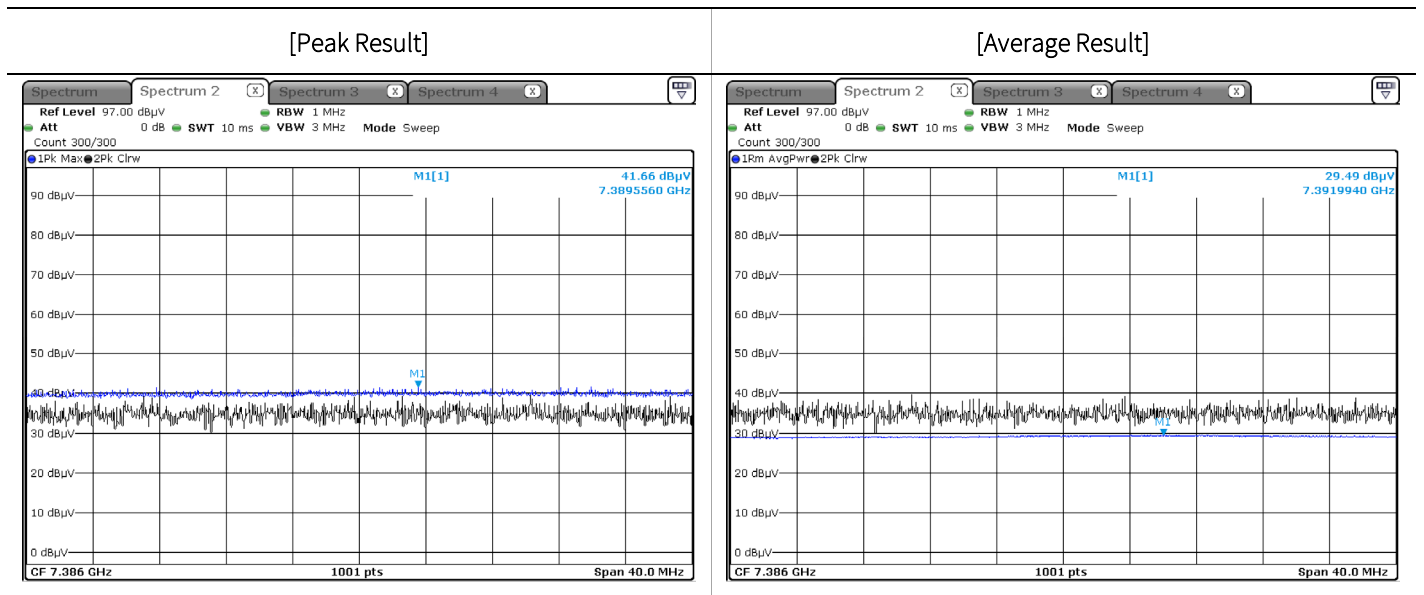
■ Test Plot



DTS ax R.S.E Harmonic (ANT ALL) (MIMO, 802.11ax(HE 20)242T RU61 MCS0/ch. 11)

Band :	DTS		Operation Mode :		802.11ax_HE20 MCS0 242T RU61			
CH.11	2462	MHz	Transfer Rate :		MCS0			
Frequency	Measured value	D.C.F	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBμV]	[dB]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	Type
4924	44.45	0.00	3.14	V	47.59	73.98	26.39	PK
4924	33.21	0.36	3.14	V	36.71	53.98	17.27	AV
7386	40.91	0.00	10.39	V	51.30	73.98	22.68	PK
7386	29.44	0.36	10.39	V	40.19	53.98	13.79	AV
4924	45.41	0.00	3.14	H	48.55	73.98	25.43	PK
4924	33.34	0.36	3.14	H	36.84	53.98	17.14	AV
7386	41.66	0.00	10.39	H	52.05	73.98	21.93	PK
7386	29.49	0.36	10.39	H	40.24	53.98	13.74	AV

Test Plot



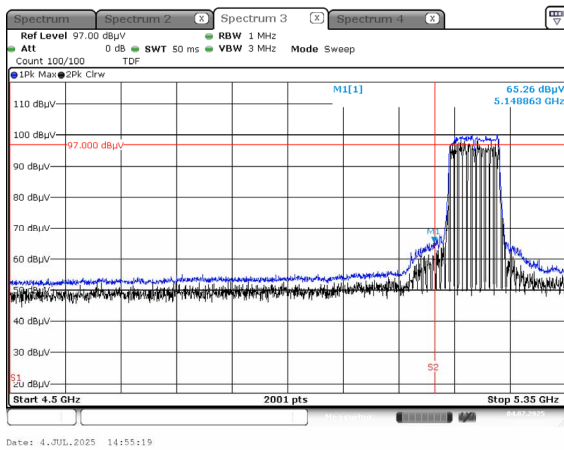
UNII Band Edge (ANT ALL) (MIMO, 802.11ac(80M) MCS0/ch.42)

Frequency	Measured Value	CL+AF+DF-AG+ATT	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
5150	65.26	-	H	65.26	73.98	8.72	PK
5150	51.72	-	H	51.72	53.98	2.26	AV

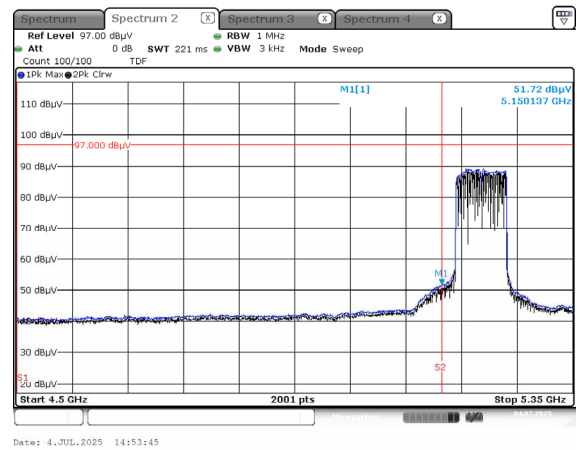
- The offset = Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)– Amp. Gain(A.G) + Attenuator (ATT)

■ Test Plot

[Peak Result]



[Average Result]

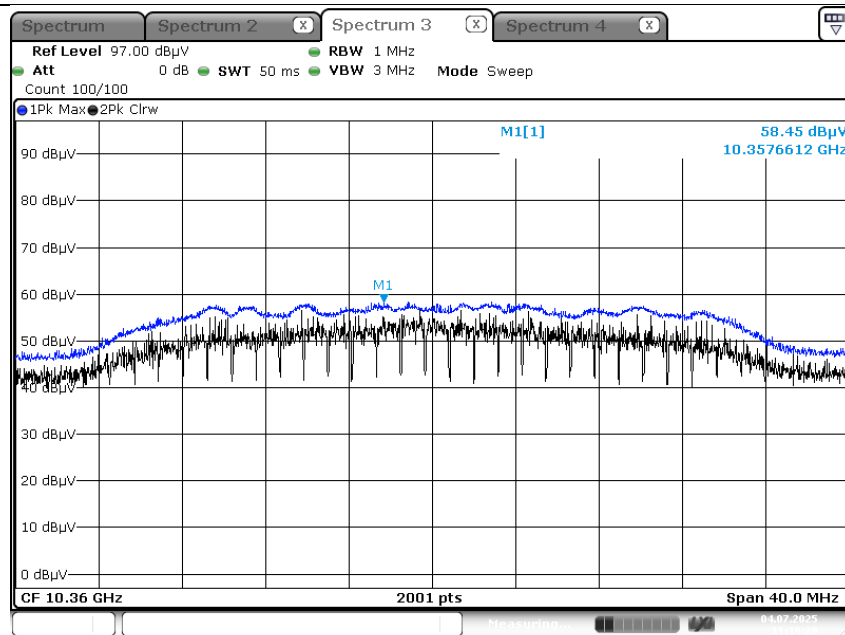


UNII R.S.E Harmonic (ANT ALL) (MIMO, 802.11a 6Mbps/ch. 36)

Band :	UNII 1		Operation Mode :		802.11a		
CH.36	5180	MHz	Transfer Rate :		6 Mbps		
Frequency	Measured value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	Type
10360	58.45	5.79	V	64.24	68.20	3.96	PK
15540	47.73	6.58	V	54.31	73.98	19.67	PK
15540	34.07	6.58	V	40.65	53.98	13.33	AV
10360	58.11	5.79	H	63.90	68.20	4.30	PK
15540	47.51	6.58	H	54.09	73.98	19.89	PK
15540	33.99	6.58	H	40.57	53.98	13.41	AV

Test Plot

[Peak Result]



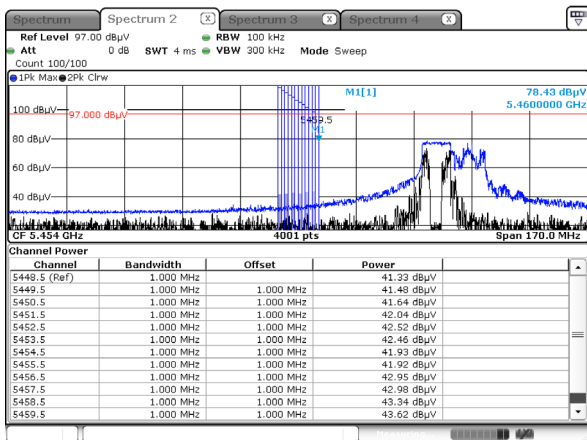
Date: 4.JUL.2025 11:19:20

UNII ax Band Edge (ANT ALL) (MIMO, 802.11ax(HE20) 106T RU53 MCS0/ch.100)

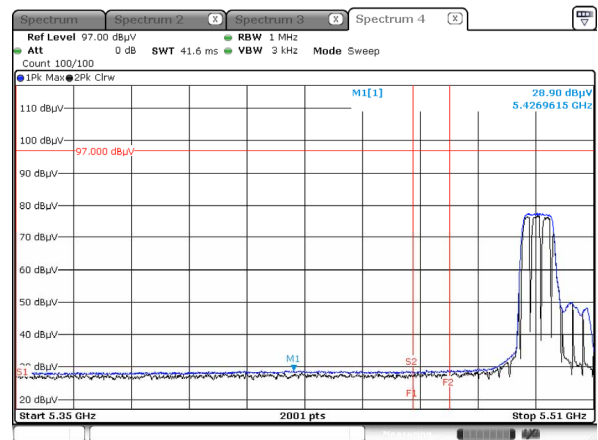
Frequency	Measured Value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement Type
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	
# 5460	43.62	16.12	H	59.74	73.98	14.24	PK
5460	28.90	16.12	H	45.02	53.98	8.96	AV
# 5470	47.15	16.12	H	63.27	68.20	4.93	PK

▣ Test Plot

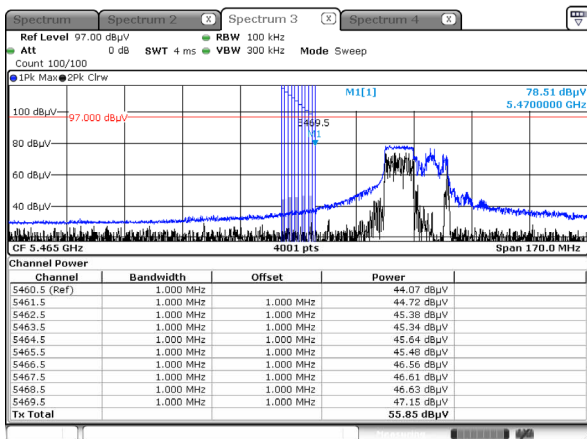
[Peak Result]



[Average Result]



[Peak Result]

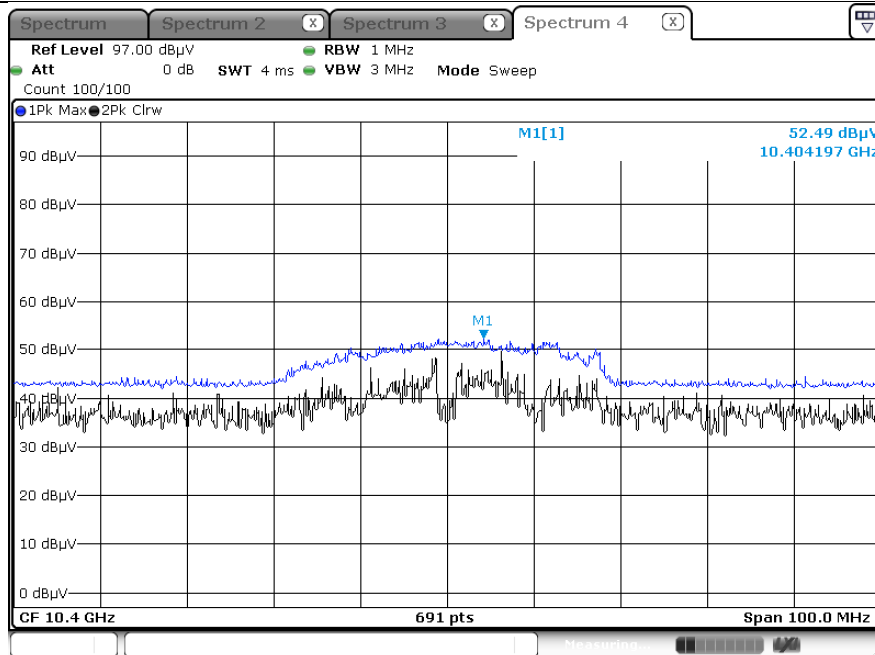


UNII ax R.S.E Harmonic (ANT ALL) (MIMO, 802.11ax(HE20)_242T RU61 MCS0/ch.40)

Band :	UNII 1		Operation Mode :		802.11ax_HE20 MCS0 242T RU61		
CH.40	5200	MHz	Transfer Rate :		MCS0		
Frequency	Measured value	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBμV]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	Type
10400	52.49	8.11	V	60.60	68.20	7.60	PK
15600	40.76	12.87	V	53.63	73.98	20.35	PK
15600	28.03	12.87	V	40.90	53.98	13.08	AV
10400	50.65	8.11	H	58.76	68.20	9.44	PK
15600	40.41	12.87	H	53.28	73.98	20.70	PK
15600	27.89	12.87	H	40.76	53.98	13.22	AV

Test Plot

[Peak Result]



UNII 6e Band Edge (ANT ALL) (802.11ax (HE20) SU MCS0/ch.2)

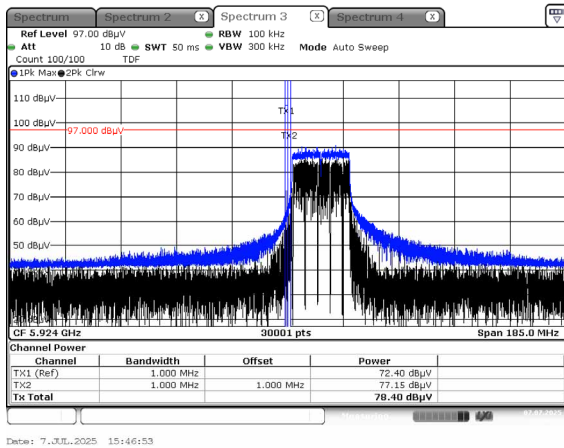
Operation Mode :	802.11ax_20	Tone & RU Index :	SU			MCS index :	MCS0
Channel No. :	2	Frequency :	5935 MHz			Band :	UNII-5
Frequency [MHz]	Measured Value [dBμv]	Duty Cyclcy Factor [dB]	ANT. POL [H/V]	Total [dBμv/m]	Limit [dBμv/m]	Margin [dB]	Measurement Type
5350 - 5460	53.43	0.00	H	53.43	73.98	20.55	PK
5350 - 5460	42.35	0.34	H	42.69	53.98	11.29	AV
#5460 - 5925	77.15	0.00	H	77.15	88.23	11.08	PK
#5460 - 5925	64.02	0.34	H	64.36	68.23	3.87	AV

Note : # integration method Used (KDB 789033 D02 v02r01 Section 3) d) (ii)

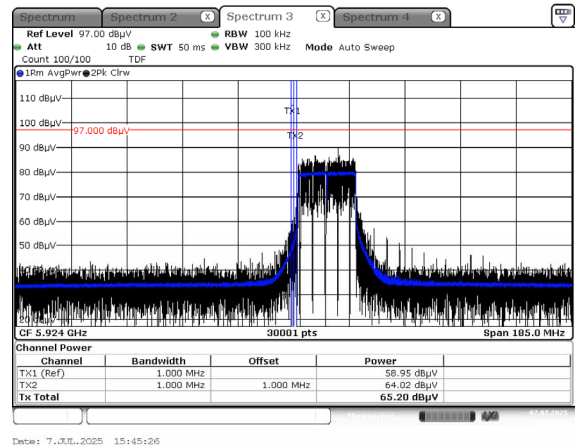
- The offset = Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F) - Amp. Gain(A.G)

■ Test Plot

[Peak Result]



[Average Result]

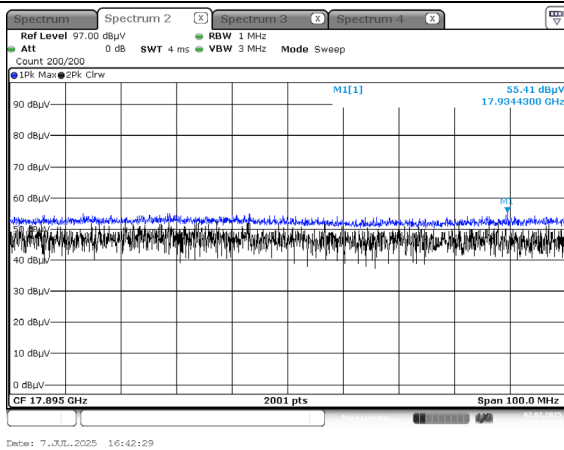


UNII 6e R.S.E Harmonic (ANT ALL) (802.11ax HE40(SU)_MCS0/Ch.3)

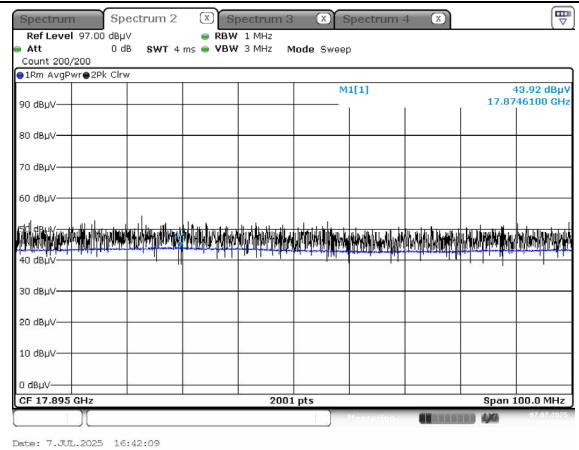
Frequency	Measured value	D.C.F	CL+AF+DF-AG	ANT. POL	Total	Limit	Margin	Measurement
[MHz]	[dBμV]	[dB]	[dB/m]	[H/V]	[dBμV/m]	[dBμV/m]	[dB]	Type
11930	53.09	0.00	-3.39	V	49.70	73.98	24.28	PK
11930	41.55	0.63	-3.39	V	38.79	53.98	15.19	AV
17895	55.28	0.00	3.72	V	59.00	73.98	14.98	PK
17895	43.67	0.63	3.72	V	48.03	53.98	5.95	AV
11930	53.12	0.00	-3.39	H	49.73	73.98	24.25	PK
11930	41.59	0.63	-3.39	H	38.83	53.98	15.15	AV
17895	55.41	0.00	3.72	H	59.13	73.98	14.85	PK
17895	43.92	0.63	3.72	H	48.28	53.98	5.70	AV

Test Plot

[Peak Result]



[Average Result]



WPT Fundamental(Power Sharing)

Fundamental

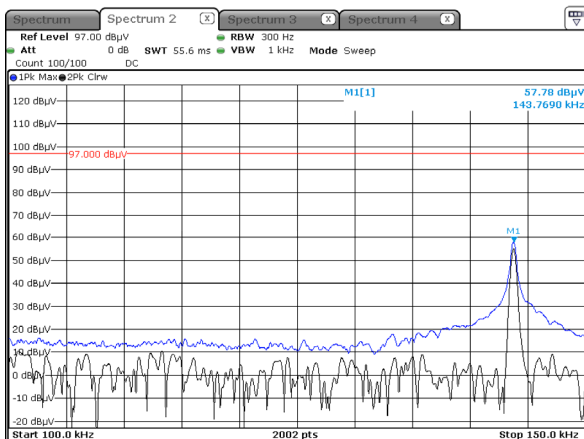
Frequency	Measured value	Ant.Factor	Cable Loss	Distance Correction	ANT. Pol	Total Value	Limit	Margin
[kHz]	[dBμV/m]@3m	[dB/m]	[dB]	[dB]	(H/V)	[dBμV/m]	[dBμV/m]	[dB]
# 143.769	57.78	19.90	0.29	-80.00	H	-2.03	24.45	26.48
711.000	24.44	19.90	0.29	-40.00	H	4.63	30.57	25.93

Note :

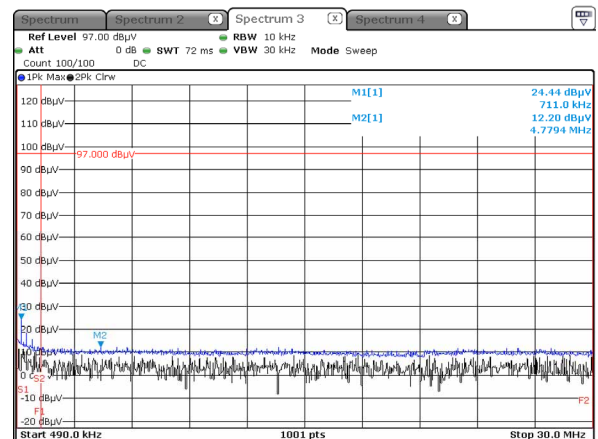
1. “#” Fundamental Frequency
2. EUT State : Stand alone
3. 30 MHz - 1 GHz : No Critical peaks found

Test Plot

Frequency Range : 100 kHz - 150 kHz



Frequency Range : 490 kHz - 30 MHz



4. List of test equipment

4.1 Unlicensed

4.2.1 UNII ax

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/27/2025	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	02/11/2026	Annual
Signal Analyzer	N9030A	Agilent	MY49432108	02/18/2026	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	100935	08/01/2025	Annual
Power Meter	N1911A	Agilent	MY45100523	02/21/2026	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/04/2026	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/21/2025	Annual
Power Splitter	11667B	Hewlett Packard	10545	01/23/2026	Annual
DC Power Supply	E3632A	Agilent	KR75303243	04/16/2026	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	07560	05/27/2026	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C	HP	08285	05/19/2026	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	02/18/2026	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100752	12/27/2025	Annual
Automation Software	FCC WLAN Conducted	HCT CO., LTD	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	S1AM	07/30/2025	Annual
Turn Table	DS2000-S-1t	Innco system	DS2000/572/54610422/P	N/A	N/A
Amp & Filter Bank Switch Controller	FBSM-01B	T&M system	TM19050002	N/A	N/A
Loop Antenna	1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1300	01/03/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-2296	05/16/2026	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Spectrum Analyzer	FSV(10 Hz ~ 40 GHz)	Rohde & Schwarz	101055	05/07/2026	Annual
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	05/27/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	05/27/2026	Annual
High Pass Filter(7 GHz ~ 18 GHz)	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	02/21/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	03/12/2026	Annual
RF Switching System	FMSR-05B (HPF(3~18GHz) + LNA1(1~18GHz))	T&M system	S1L1	12/23/2025	Annual
RF Switching System	FMSR -05B (ATT(10dB) + LNA1(1~18GHz))	T&M system	S1L2	12/23/2025	Annual
RF Switching System	FMSR -05B (ATT(3dB) + LNA1(1~18GHz))	T&M system	S1L3	12/23/2025	Annual
RF Switching System	FMSR -05B (LNA1(1~18GHz))	T&M system	S1L4	12/23/2025	Annual
RF Switching System	FMSR -05B (HPF(7~18GHz) + LNA2(6~18GHz))	T&M system	S1L5	12/23/2025	Annual
RF Switching System	FMSR -05B (Thru(30MHz ~ 18GHz))	T&M system	S1L6	12/23/2025	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

4.2.2 BT, BT LE, DTS ax

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/27/2025	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	02/11/2026	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	12/12/2025	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	101231	10/17/2025	Annual
Power Meter	N1911A	Agilent	MY45100523	02/21/2026	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/04/2026	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/21/2025	Annual
Power Splitter	11667B	Hewlett Packard	05001	04/10/2026	Annual
DC Power Supply	E3632A	H.P	KR75303243	04/16/2026	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	05/27/2026	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Automation Software	FCC Bluetooth Conducted	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/1031/ 41190717/P	N/A	N/A
Antenna Mast	MA4640	Innco system	S2AM	07/30/2025	Annual
Turn Table	DS2000-S	Innco system	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/07/2026	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	760	02/17/2027	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	01/29/2026	Biennial
Horn Antenna (15GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Spectrum Analyzer	FSV40	Rohde & Schwarz	100901	02/21/2026	Annual
Signal Analyzer	N9030A	Agilent	MY52350879	03/25/2026	Annual
Attenuator(3 dB)	18B-03	Api tech.	1	04/21/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	5	05/27/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	6	05/27/2026	Annual
Band Reject Filter	WRCJV2400/2483.5- 2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV5100/5850-40/50-8EEK	Wainwright Instruments	1	01/09/2026	Annual
RF Switching System	FMSR-04B (3G HPF+LNA)	T&M SYSTEM	S2L1	12/23/2025	Annual
RF Switching System	FMSR-04B (10dB ATT+LNA)	T&M SYSTEM	S2L2	12/23/2025	Annual
RF Switching System	FMSR-04B (3dB ATT+LNA)	T&M SYSTEM	S2L3	12/23/2025	Annual
RF Switching System	FMSR-04B (LNA)	T&M SYSTEM	S2L4	12/23/2025	Annual
RF Switching System	FMSR-04B (7G HPF+LNA)	T&M SYSTEM	S2L5	12/23/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

4.2.3 DTS, UNII

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/27/2025	Annual
Temperature Chamber	SU-642	ESPEC	93022487	06/26/2026	Annual
Signal Analyzer	N9030A	Keysight	MY55410508	08/23/2025	Annual
Power Measurement Set	OSP 120	Rohde & Schwarz	100935	08/01/2025	Annual
Power Meter	N1911A	Agilent	MY45100523	02/21/2026	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/04/2026	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/21/2025	Annual
Power Splitter	11667B	Hewlett Packard	10545	01/23/2026	Annual
DC Power Supply	E3632A	Agilent	KR75305528	12/24/2025	Annual
Attenuator(10 dB)(DC-26.5 GHz)	8493C-010	Agilent	08285	05/19/2026	Annual
Attenuator(20 dB)	18N-20dB	Rohde & Schwarz	8	02/18/2026	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100752	12/27/2025	Annual
Automation Software	FCC WLAN Conducted	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller(Antenna mast)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	S3AM	07/30/2025	Annual
Controller	EM2090	Emco	060520	N/A	N/A
Turn Table	N/A	Ets	N/A	N/A	N/A
Amp & Filter Bank Switch Controller	FBSM-01A	TNM system	0	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	03/07/2026	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1191	11/07/2025	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Band Reject Filter	WRCJV2400/2483.5-2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	5	05/27/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900-6100-50SS	Wainwright Instruments	6	05/27/2026	Annual
High Pass Filter(7 GHz ~ 18 GHz)	WHKX10-7150-8000-18000-50SS	Wainwright Instruments	1	02/21/2026	Annual
RF Switching System	FBSR-03A (3G HPF+LNA)	T&M SYSTEM	S3L1	10/31/2025	Annual
RF Switching System	FBSR-03A (10dB ATT+LNA)	T&M SYSTEM	S3L2	10/31/2025	Annual
RF Switching System	FBSR-03A (7G HPF+LNA)	T&M SYSTEM	S3L3	10/31/2025	Annual
RF Switching System	FBSR-03A (3dB ATT+LNA)	T&M SYSTEM	S3L4	10/31/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	03/12/2026	Annual
Spectrum Analyzer	FSV40 (9 kHz ~ 40 GHz)	Rohde & Schwarz	100900	08/27/2025	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

4.2.4 UNII 6G

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESU40	Rohde & Schwarz	100524	05/08/2026	Annual
Temperature Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer	N9030B	Keysight	MY56320554	02/03/2026	Annual
Power Meter	N1911A	Agilent	MY45100523	02/21/2026	Annual
Power Sensor	N1921A	Agilent	MY57820067	02/04/2026	Annual
Directional Coupler	87300B	Agilent	3116A03621	10/21/2025	Annual
Power Splitter	11667B	Hewlett Packard	10545	01/23/2026	Annual
DC Power Supply	E3632A	Agilent	MY50360067	02/11/2026	Annual
Attenuator(20 dB)	8493C	Agilent	17280	04/10/2026	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A
Bluetooth Tester	CBT	Rohde & Schwarz	100808	02/27/2026	Annual
Radio Communication Tester	CMX500	Rohde&Schwarz	100325	10/14/2025	Annual
4 WAY POWER DIVIDER	4456-4	Narda	01640	04/28/2026	Annual
Step Attenuator	8310-202-F	Aeroflex/Weinschel	1070	03/27/2026	Annual
Wireless AP	GT-AXE11000	ASUS	M6IAJF201782 (FCC ID : MSQ-RTAXJF00)	N/A	N/A
Automation Software	FCC WLAN Conducted	HCT CO., LTD	-	-	-

- Note:**
1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
 2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/ 15421/57580623/G	N/A	N/A
Antenna Position Tower	MA4640	Innco system	9320422	04/03/2026	Biennial
Turn Table	N/A	Innco system	5930623	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	08/19/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1151	07/11/2027	Biennial
Horn Antenna (15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Amp & Filter Bank Switch Controller	FBSM-01B	T&M system	TM2009001	N/A	N/A
Band Reject Filter	WRCJV2400/2483.5- 2370/2520-60/12SS	Wainwright Instruments	2	12/26/2025	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	5	05/27/2026	Annual
Band Reject Filter	WRCJV12-4900-5100-5900- 6100-50SS	Wainwright Instruments	6	05/27/2026	Annual
Band Reject Filter	WRCJV5100/5850-40/50- 8EEK	Wainwright Instruments	1	01/09/2026	Annual
RF Switching System	FMSR-05B (HPF(3~18GHz) + LNA1(1~18GHz))	T&M system	S5L1	03/11/2026	Annual
RF Switching System	FMSR -05B (ATT(10dB) + LNA1(1~18GHz))	T&M system	S5L2	03/11/2026	Annual
RF Switching System	FMSR -05B (ATT(3dB) + LNA1(1~18GHz))	T&M system	S5L3	03/11/2026	Annual
RF Switching System	FMSR -05B (LNA1(1~18GHz))	T&M system	S5L4	03/11/2026	Annual
RF Switching System	FMSR -05B (HPF(7~18GHz) + LNA2(6~18GHz))	T&M system	S5L5	03/11/2026	Annual
RF Switching System	FMSR -05B (Thru(30MHz ~ 18GHz))	T&M system	S5L6	03/11/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
Bluetooth Tester	TC-3000C	TESCOM	3000C000175	03/12/2026	Annual
Spectrum Analyzer	FSV40 (9 kHz ~ 40 GHz)	Rohde & Schwarz	101510	09/24/2025	Annual
Attenuator(3 dB)	18B-03	Api tech.	1	04/21/2026	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD	-	-	-

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017)

4.2.5 NFC

Conducted Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/27/2025	Annual
Temperature Chamber	SU-642	ESPEC	0093008124	02/11/2026	Annual
DC Power Supply	E3632A	H.P	KR75303243	04/16/2026	Annual
Attenuator(10 dB)	8493C	Hewlett Packard	07560	05/27/2026	Annual
Software	EMC32	Rohde & Schwarz	N/A	N/A	N/A

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

Radiated Test

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/1031 /41190717/P	N/A	N/A
Antenna Position Tower	MA4640	Innco system	S2AM	07/30/2025	Annual
Turn Table	DS2000-S	Innco system	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	08/19/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02299	01/29/2026	Biennial
Spectrum Analyzer	FSV40	Rohde & Schwarz	100901	02/21/2026	Annual
Signal Analyzer	N9030A	Agilent	MY49431210	12/12/2025	Annual
Power Amplifier	310N	SONOMA INSTRUMENT	186169	02/05/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

4.2.6 WPT

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000/1031/ 41190717/P	N/A	N/A
Antenna Mast	MA4640	Innco system	S2AM	07/30/2025	Annual
Turn Table	DS2000-S	Innco system	N/A	N/A	N/A
LISN	ENV216	Rohde & Schwarz	102245	07/17/2025	Annual
EMI Test Receiver	ESR	Rohde & Schwarz	101910	08/27/2025	Annual
Loop Antenna	FMZB 1513	Schwarzbeck	1513-175	01/06/2027	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	08/19/2026	Biennial
Power Amplifier	310N	SONOMA INSTRUMENT	186169	02/05/2026	Annual
Spectrum Analyzer	FSV40 (9 kHz ~ 40 GHz)	Rohde & Schwarz	101510	09/24/2025	Annual

Note:

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).