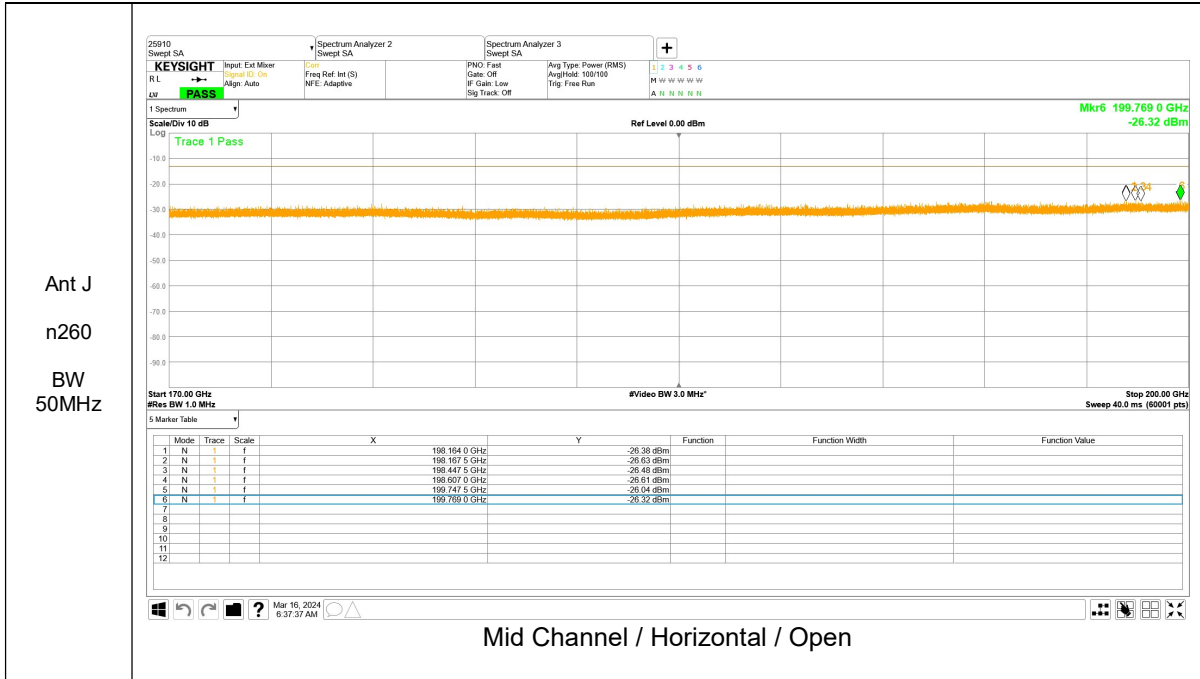
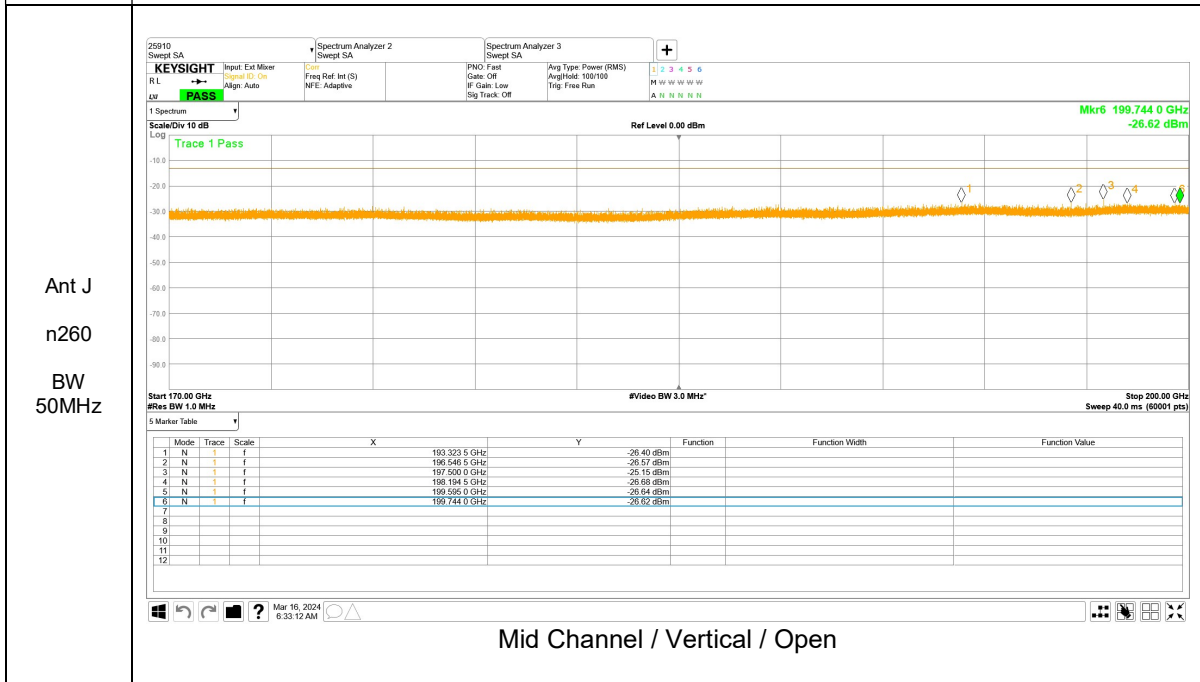


170 – 200 GHz Result

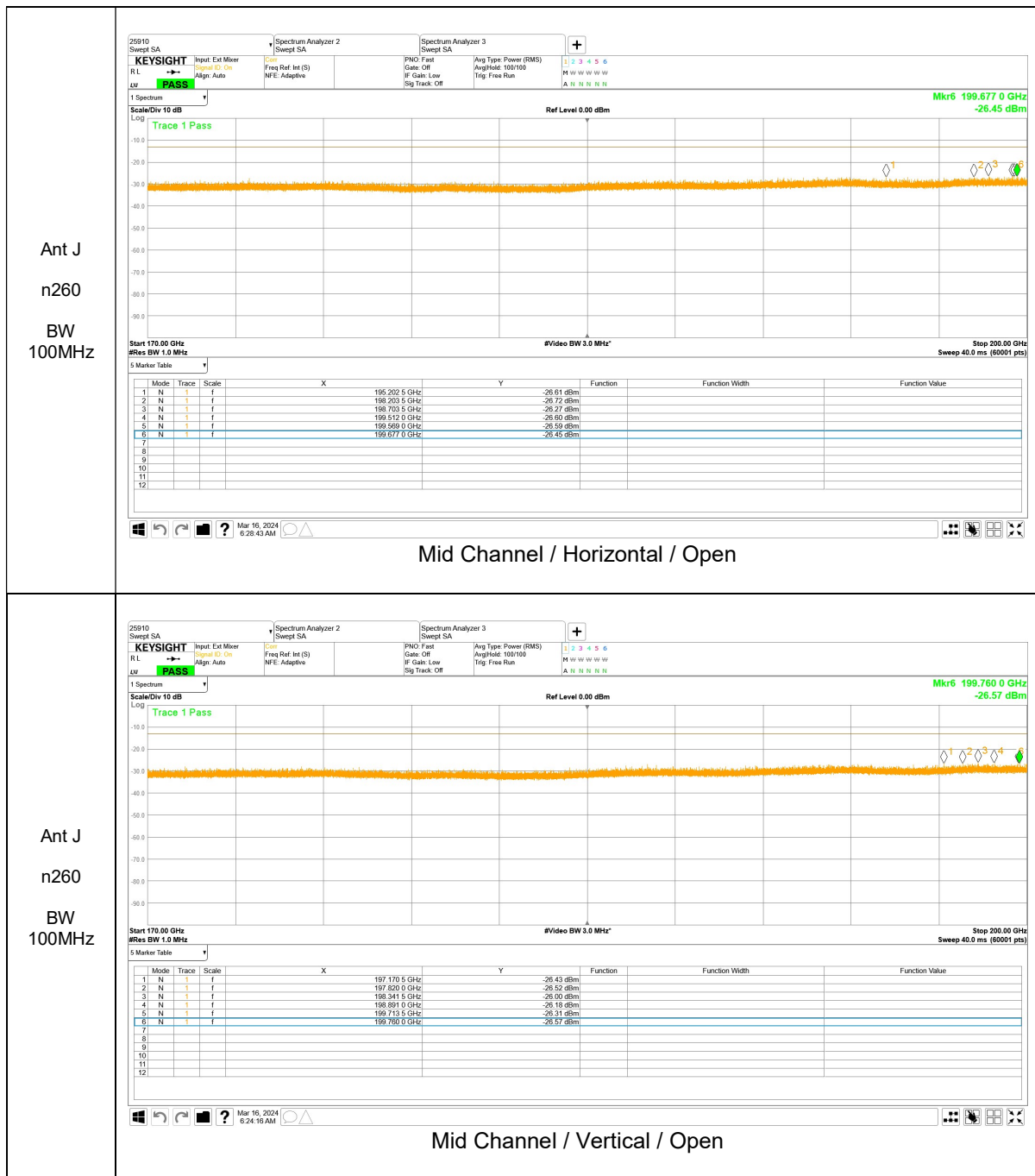


Mid Channel / Horizontal / Open



Mid Channel / Vertical / Open

All channels were investigated, but no emission above the noise floor was detected.



All channels were investigated, but no emission above the noise floor was detected.

8.5. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055

LIMITS

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Test procedures for temperature variation

- a) Position the EUT in temperature/humidity chamber with power off.
- b) Set chamber temperature to -30°C and stabilize the EUT for at least 30 minutes.
- c) Record maximum change in frequency within one minute after powering the EUT.
- d) Increase chamber temperature at 10°C intervals from -30°C to 50°C. Record maximum change in frequency at each temperature.
- e) A period of at least 30 minutes is provided to allow stabilization of the equipment at each temperature level.

Test procedures for voltage variation

- a) Position the EUT in temperature/humidity chamber with power off.
- b) Set chamber temperature to 20°C.
- c) Record maximum frequency change within one minute after powering the EUT.
- d) The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

(KDB 842590 D01 Upper Microwave Flexible Use Service v01r02 Section 4.5)
(ANSI C63.26-2015 Section 5.6)

NOTE :

The Deviation column in the table below is the amount of deviation measured from the center frequency of the authorized bands of operation.

The measurement were performed with the DFT-s OFDM and SISO-Dual mode.

RESULTS

See the following pages.

8.5.1. FREQUENCY STABILITY RESULTS

Band n258 SB1

Limit (MHz)		24250			24450		
Condition		F low @ End of OBW	Delta	Deviation	F high @ End of OBW	Delta	Deviation
Temperature	Voltage	(MHz)	(kHz)	(%)	(MHz)	(kHz)	(%)
Normal (20°C) (Ref)	Normal	24250.0400	0.000	0.000000	24450.0402	0.000	0.000000
Extreme (50°C)		24250.0401	163.300	0.000671	24450.0403	73.763	0.000303
Extreme (40°C)		24250.0399	-28.947	-0.000119	24450.0403	33.779	0.000139
Extreme (30°C)		24250.0399	-55.530	-0.000228	24450.0402	12.799	0.000053
Extreme (10°C)		24250.0399	-50.673	-0.000208	24450.0402	-48.223	-0.000198
Extreme (0°C)		24250.0399	-44.481	-0.000183	24450.0402	17.960	0.000074
Extreme (-10°C)		24250.0400	88.120	0.000362	24450.0402	14.549	0.000060
Extreme (-20°C)		24250.0399	-80.996	-0.000333	24450.0402	-14.134	-0.000058
Extreme (-30°C)		24250.0399	-20.849	-0.000086	24450.0402	-11.213	-0.000046
Normal (20°C)	15%	24250.0401	-110.760	-0.000455	24450.0402	13.903	0.000057
	-15%	24250.0399	-131.680	-0.000541	24450.0403	60.095	0.000247
	End Point	24250.0399	-19.019	-0.000078	24450.0402	-69.055	-0.000284

Band n258 SB2

Limit (MHz)		24750			25250		
Condition		F low @ End of OBW	Delta	Deviation	F high @ End of OBW	Delta	Deviation
Temperature	Voltage	(MHz)	(kHz)	(%)	(MHz)	(kHz)	(%)
Normal (20°C) (Ref)	Normal	24750.0798	0.000	0.000000	25249.9599	0.000	0.000000
Extreme (50°C)		24750.0796	-181.060	-0.000724	25249.9600	74.107	0.000296
Extreme (40°C)		24750.0799	95.993	0.000384	25249.9598	-108.150	-0.000433
Extreme (30°C)		24750.0798	4.393	0.000018	25249.9600	97.729	0.000391
Extreme (10°C)		24750.0798	-45.242	-0.000181	25249.9599	37.854	0.000151
Extreme (0°C)		24750.0798	-54.475	-0.000218	25249.9598	-83.104	-0.000332
Extreme (-10°C)		24750.0799	96.123	0.000384	25249.9599	-33.222	-0.000133
Extreme (-20°C)		24750.0799	35.201	0.000141	25249.9600	105.940	0.000424
Extreme (-30°C)		24750.0798	20.443	0.000082	25249.9598	-88.484	-0.000354
Normal (20°C)	15%	24750.0796	-25.793	-0.000103	25249.9599	58.273	0.000233
	-15%	24750.0799	24.828	0.000099	25249.9599	19.124	0.000076
	End Point	24750.0798	44.373	0.000177	25249.9600	71.455	0.000286

Band n261

Limit (MHz)		27500			28350		
Condition		F low @ End of OBW	Delta (kHz)	Deviation (%)	F high @ End of OBW	Delta (kHz)	Deviation (%)
Temperature	Voltage	(MHz)			(MHz)		
Normal (20°C) (Ref)	Normal	27500.0001	0.000	0.000000	28349.9201	0.000	0.000000
Extreme (50°C)		27499.9999	-119.660	-0.000429	28349.9202	99.281	0.000356
Extreme (40°C)		27499.9999	-121.010	-0.000433	28349.9201	-33.041	-0.000118
Extreme (30°C)		27500.0001	87.902	0.000315	28349.9202	63.500	0.000227
Extreme (10°C)		27500.0001	19.012	0.000068	28349.9200	-102.170	-0.000366
Extreme (0°C)		27500.0001	72.414	0.000259	28349.9201	26.061	0.000093
Extreme (-10°C)		27500.0001	43.888	0.000157	28349.9201	-24.892	-0.000089
Extreme (-20°C)		27500.0001	2.178	0.000008	28349.9200	-97.967	-0.000351
Extreme (-30°C)		27500.0001	26.316	0.000094	28349.9200	-66.590	-0.000238
Normal (20°C)		15%	27499.9999	-14.897	-0.000053	28349.9200	-54.014
	-15%	27499.9999	-38.606	-0.000138	28349.9202	72.436	0.000259
	End Point	27500.0001	66.869	0.000239	28349.9202	-19.383	-0.000069

Band n260

Limit (MHz)		37000			40000		
Condition		F low @ End of OBW	Delta (kHz)	Deviation (%)	F high @ End of OBW	Delta (kHz)	Deviation (%)
Temperature	Voltage	(MHz)			(MHz)		
Normal (20°C) (Ref)	Normal	37000.0399	0.000	0.000000	39999.9003	0.000	0.000000
Extreme (50°C)		37000.0399	-37.888	-0.000098	39999.9004	18.096	0.000047
Extreme (40°C)		37000.0398	-107.910	-0.000280	39999.9004	45.791	0.000119
Extreme (30°C)		37000.0399	-39.923	-0.000104	39999.9003	-42.881	-0.000111
Extreme (10°C)		37000.0400	51.331	0.000133	39999.9004	109.970	0.000286
Extreme (0°C)		37000.0399	-39.908	-0.000104	39999.9005	150.910	0.000392
Extreme (-10°C)		37000.0399	-13.995	-0.000036	39999.9004	76.344	0.000198
Extreme (-20°C)		37000.0400	138.500	0.000360	39999.9004	79.230	0.000206
Extreme (-30°C)		37000.0399	38.536	0.000100	39999.9005	200.650	0.000521
Normal (20°C)		15%	37000.0399	-92.856	-0.000241	39999.9003	-34.487
	-15%	37000.0398	159.890	0.000415	39999.9003	-17.671	-0.000046
	End Point	37000.0399	8.955	0.000023	39999.9003	61.870	0.000161

Appendix A

1. Accreditation Scope

A transmitter operating at 40 GHz requires spurious emissions to be investigated up to 200 GHz. In this case, the test laboratory scope should reflect that it has capability to measure up to 200 GHz.

UL KOREA LTD. test sites and facilities are covered under FCC test Firm Registrations #KR0161.

The scope of accreditation can be viewed at

https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeout=500®num_specified=N&test_firm_id=7730

2. VDI Mixer Certificate Report

2.1. Model : N9029AV15, S/N : SAX693



교정성적서
CALIBRATION CERTIFICATE
경기도 이천시 마장면 서이천로 578번길 74
TEL : 031-645-6900, FAX : 031-645-6969



성적서발급번호(Certificate No) : IC-2024-000170
교정번호(Calibration No) : C-2024-000405

페이지(page) : 1 of 4

1. 의뢰자 (Client)

- 기관명 (Name) : 유엘코리아(주)
- 주소 (Address) : 경기도 수원시 영통구 매영로 218

2. 측정기 (Calibration Subject)

◇ 등록번호 : 409611
- 기기명 (Description) : SA EXTENSION MODULE
- 제작회사 및 형식(Manufacturer and Model Name) : VDI / SAX WR15
- 기기번호 (Serial Number) : SAX693

3. 교정일자 (Date of Calibration) : 2024.01.10

차기교정예정일자 : 2025.01.10
(The due date of next Calibration)

4. 교정환경 (Environment)

- 온도(Temperature) : (22.6 ± 0.1) °C - 습도(Humidity) : (46 ± 2) % R.H.
- 교정장소 (Location) : 고정표준실(Permanent Calibration Lab)
(주소: 경기도 이천시 마장면 서이천로 578번길 74)

5. 측정표준의 소급성 (Traceability) ◇Field code : 40641(RF SPECTRUM ANALYZER)

교정방법 및 소급성 서술 (Calibration method and/or brief description)

상기 기기는 고주파 스펙트럼 분석기의 교정절차(HCT-CS-125-40641)에 따라 국가측정표준기관으로부터 측정의 소급성이 확보된 아래의 표준장비를 이용하여 교정 되었음.

교정에 사용한 표준장비 명세 (List of used standards/specifications)

기기명 (Description)	제작회사 / 형식 (Manufacturer and Model Name)	기기번호 (Serial Number)	차기교정예정일자 (The due date of next Calibration)	교정기관 (Calibration laboratory)
PSG ANALOG SIGNAL GENERATOR	AGILENT/E8257D	MY46130629	2024/10/25	(주)에이치시티
EPM SERIES POWER METER	AGILENT/E4419B	GB42420565	2024/10/25	(주)에이치시티
POWER SENSOR	KEYSIGHT/V8486A	MY56330017	2024/11/03	Keysight Technologies
WR-12 MULTIPLIER SOURCE MODULE	OML/S12MS-A	160419-1	2024/07/19	(주)에이치시티
WR-19 MULTIPLIER SOURCE MODULE	OML/S19MS-A	160516-1	2024/07/19	(주)에이치시티
PXA SIGNAL ANALYZER	AGILENT/N9030A	US51350310	2024/03/13	(주)에이치시티

6. 교정결과 (Calibration result)

: 교정결과 참조 (Refer to attachment)

7. 측정불확도 (Measurement uncertainty)

: 교정결과 참조 (Refer to attachment)

신뢰수준 약 95 %, k = 2 (Confidence level about 95 %, k = 2)

확인 (affirmation)	작성자 (Measurements performed by)	승인자 (Approved by)
	성명 (Name) 강석훈	직위 (Title) 기술책임자(Technical Cal. Manager) 김광철 성명 (Name) 김광철

위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인 받은 분야의 교정결과입니다.

2024. 01. 11

한국인정기구 인정
Accredited by KOLAS, Republic of KOREA

(주)에이치시티 대표이사
President, HCT Co., Ltd.



※ 이 성적서는 측정기의 정밀정확도에 영향을 미치는 요소(과부하, 온도, 습도 등)의 급격한 변화가 발생한 경우에는 무효가 됩니다.
※ 고객연동시스템(http://www.callab.co.kr)에서 성적서의 진위여부 확인이 가능합니다.
※ 성적서의 원본은 상단에 HCT출로그림이 들어간 워본조 방지 용지에 인쇄되어 발급되며, 원본 복사시에는 복사본이라는 표시가 처리됩니다.
■고객사 관리번호: SUW-E0250

F-02P-02-008 (Rev.02)

교정결과

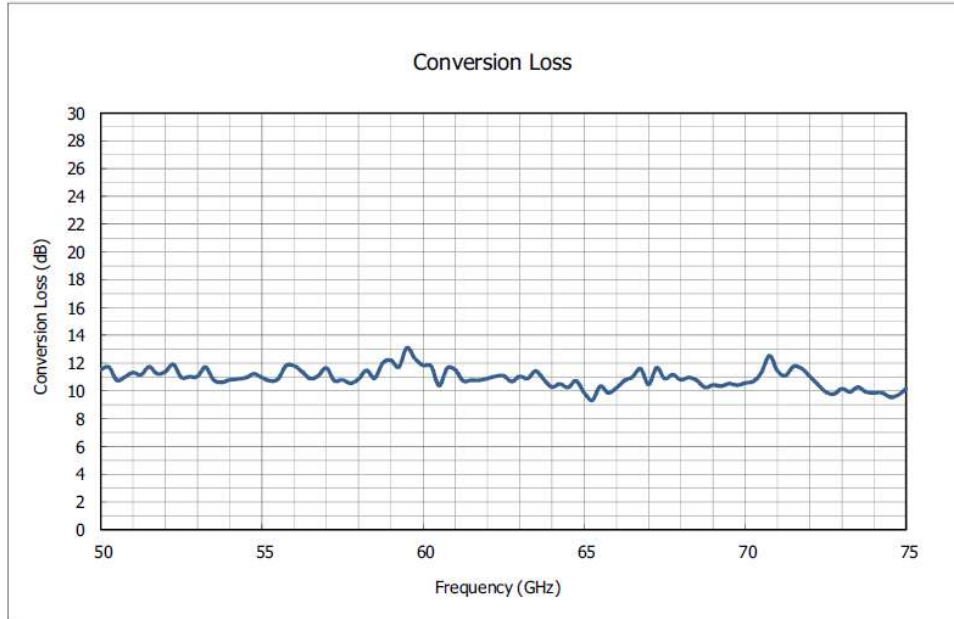
CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2024-000170
교정번호(Calibration No) : C-2024-000405

페이지(page) : 2 of 4

1. Conversion Loss Graph



[Note]

1. Measurement Condition : RF = -30 dBm, Harmonic Order = 12, L.O. Level = 10 dBm, IF = 322.5 MHz, Bias Value = 0.00 mA

F-02P-02-008 (Rev.02)

교 정 결 과

CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2024-000170

교 정 번 호(Calibration No) : C-2024-000405

페이지(page) : 3 of 4

2. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
50.00	11.54	0.82	59.25	11.71	0.82
50.25	11.71	0.82	59.50	13.10	0.82
50.50	10.77	0.82	59.75	12.33	0.82
50.75	11.01	0.82	60.00	11.84	0.82
51.00	11.32	0.82	60.25	11.78	0.82
51.25	11.15	0.82	60.50	10.38	0.82
51.50	11.74	0.82	60.75	11.64	0.82
51.75	11.23	0.82	61.00	11.50	0.82
52.00	11.37	0.82	61.25	10.71	0.82
52.25	11.90	0.82	61.50	10.77	0.82
52.50	10.98	0.82	61.75	10.77	0.82
52.75	11.02	0.82	62.00	10.89	0.82
53.00	11.04	0.82	62.25	11.04	0.82
53.25	11.71	0.82	62.50	11.09	0.82
53.50	10.80	0.82	62.75	10.68	0.82
53.75	10.62	0.82	63.00	11.05	0.82
54.00	10.79	0.82	63.25	10.89	0.82
54.25	10.86	0.82	63.50	11.43	0.82
54.50	10.94	0.82	63.75	10.81	0.82
54.75	11.23	0.82	64.00	10.28	0.82
55.00	10.96	0.82	64.25	10.51	0.82
55.25	10.72	0.82	64.50	10.24	0.82
55.50	10.85	0.82	64.75	10.73	0.82
55.75	11.81	0.82	65.00	9.87	0.82
56.00	11.80	0.82	65.25	9.33	0.82
56.25	11.38	0.82	65.50	10.33	0.82
56.50	10.89	0.82	65.75	9.86	0.82
56.75	11.09	0.82	66.00	10.21	0.82
57.00	11.65	0.82	66.25	10.74	0.82
57.25	10.73	0.82	66.50	11.00	0.82
57.50	10.80	0.82	66.75	11.60	0.82
57.75	10.55	0.82	67.00	10.46	0.82
58.00	10.84	0.82	67.25	11.67	0.82
58.25	11.47	0.82	67.50	10.89	0.82
58.50	10.92	0.82	67.75	11.17	0.82
58.75	12.00	0.82	68.00	10.80	0.82
59.00	12.21	0.82	68.25	10.96	0.82

F-02P-02-008 (Rev.02)

교 정 결 과

CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2024-000170
 교 정 번 호(Calibration No) : C-2024-000405

페이지(page) : 4 of 4

2. Conversion Loss Data (cont.)

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
68.50	10.75	0.82	72.00	11.06	0.82
68.75	10.25	0.82	72.25	10.46	0.82
69.00	10.42	0.82	72.50	9.92	0.82
69.25	10.35	0.82	72.75	9.78	0.82
69.50	10.52	0.82	73.00	10.16	0.82
69.75	10.41	0.82	73.25	9.93	0.82
70.00	10.57	0.82	73.50	10.27	0.82
70.25	10.69	0.82	73.75	9.92	0.82
70.50	11.31	0.82	74.00	9.86	0.82
70.75	12.53	0.82	74.25	9.86	0.82
71.00	11.44	0.82	74.50	9.55	0.82
71.25	11.10	0.82	74.75	9.71	0.82
71.50	11.77	0.82	75.00	10.18	0.82
71.75	11.60	0.82	-	-	-

끝.

F-02P-02-008 (Rev.02)

2.2. Model : N9029AV10, S/N : SAX597



교정성적서
CALIBRATION CERTIFICATE



경기도 이천시 마장면 서이천로 578번길 74
TEL : 031-645-6900, FAX : 031-645-6969

성적서발급번호(Certificate No) : IC-2024-000168
교정번호(Calibration No) : C-2024-000403

페이지(page) : 1 of 4

1. 의뢰자 (Client)

- 기관명 (Name) : 유엘코리아(주)
- 주소 (Address) : 경기도 수원시 영통구 매영로 218

2. 측정기 (Calibration Subject)

◇ 등록번호 : 409626
- 기기명 (Description) : SA EXTENSION MODULE
- 제작회사 및 형식(Manufacturer and Model Name) : VDI / SAX WR10
- 기기번호 (Serial Number) : SAX597

3. 교정일자 (Date of Calibration) : 2024.01.10

차기교정예정일자 : 2025.01.10
(The due date of next Calibration)

4. 교정환경 (Environment)

- 온도(Temperature) : (22.3 ± 0.3) °C - 습도(Humidity) : (45 ± 3) % R.H.
- 교정장소 (Location) : 고정표준실(Permanent Calibration Lab)
(주소: 경기도 이천시 마장면 서이천로 578번길 74)

5. 측정표준의 소급성 (Traceability) ◇Field code : 40641(RF SPECTRUM ANALYZER)

교정방법 및 소급성 서술 (Calibration method and/or brief description)

상기 기기는 고주파 스펙트럼 분석기의 교정절차(HCT-CS-125-40641)에 따라 국가측정표준기관으로부터 측정의 소급성이 확보된 아래의 표준장비를 이용하여 교정 되었음.

교정에 사용한 표준장비 명세 (List of used standards/specifications)

기기명 (Description)	제작회사 / 형식 (Manufacturer and Model Name)	기기번호 (Serial Number)	차기교정예정일자 (The due date of next Calibration)	교정기관 (Calibration laboratory)
PSG ANALOG SIGNAL GENERATOR	AGILENT/E8257D	MY46130629	2024/10/25	(주)에이치시티
EPM SERIES POWER METER	AGILENT/E4419B	GB42420565	2024/10/25	(주)에이치시티
POWER SENSOR	KEYSIGHT/W8486A	MY56370005	2024/11/09	Keysight Technologies
WR-12 MULTIPLIER SOURCE MODULE	OML/S12MS-A	160419-1	2024/07/19	(주)에이치시티
WR-08 MULTIPLIER SOURCE MODULE	OML/S08MS-A	160419-1	2024/07/19	(주)에이치시티
PXA SIGNAL ANALYZER	AGILENT/N9030A	US51350310	2024/03/13	(주)에이치시티

6. 교정결과 (Calibration result)

: 교정결과 참조 (Refer to attachment)

7. 측정불확도 (Measurement uncertainty)

: 교정결과 참조 (Refer to attachment)

신뢰수준 약 95 %, k = 2 (Confidence level about 95 %, k = 2)

확인 (affirmation)	작성자 (Measurements performed by)	승인자 (Approved by)
	성명 (Name) 강석훈	직위 (Title) 기술책임자(Technical Cal. Manager) 김광철 성명 (Name) 김광철

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2024. 01. 15

한국인정기구 인정
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(주)에이치시티 대표이사
President, HCT Co., Ltd.



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■고객사 관리번호: SUW-E0252

F-02P-02-008 (Rev.02)

교정결과

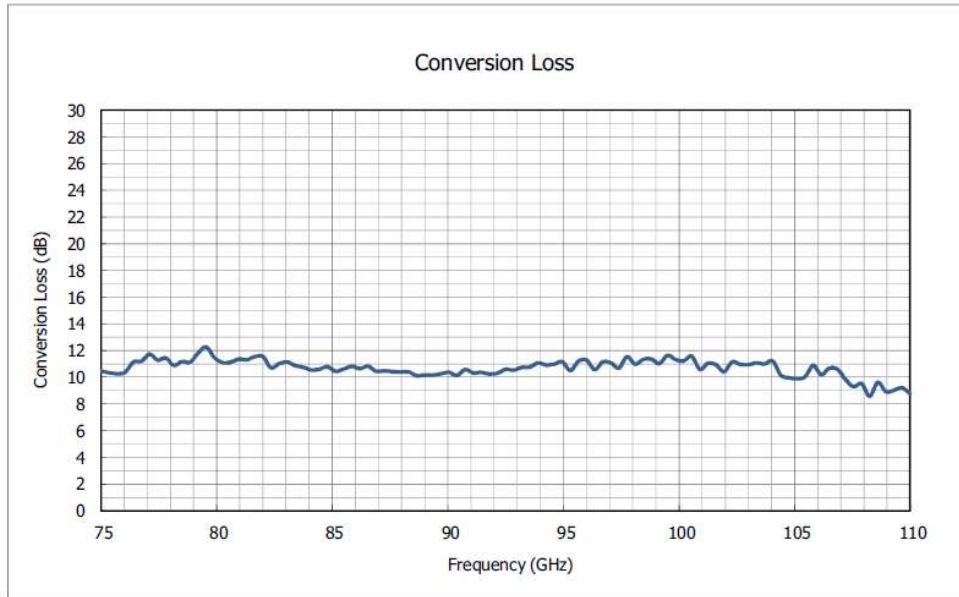
CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2024-000168
교정번호(Calibration No) : C-2024-000403

페이지(page) : 2 of 4

1. Conversion Loss Graph



[Note]

1. Measurement Condition : RF = -30 dBm, Harmonic Order = 12, L.O. Level = 10 dBm, IF = 322.5 MHz, Bias Value = 0.00 mA

F-02P-02-008 (Rev.02)

교 정 결 과

CALIBRATION RESULT



성적서발급번호(Certificate No) : IC-2024-000168

교 정 번 호(Calibration No) : C-2024-000403

페이지(page) : 3 of 4

2. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
75.0	10.46	0.82	88.0	10.39	0.82
75.4	10.34	0.82	88.3	10.40	0.82
75.7	10.26	0.82	88.7	10.11	0.82
76.1	10.39	0.82	89.0	10.17	0.82
76.4	11.14	0.82	89.4	10.17	0.82
76.8	11.20	0.82	89.7	10.26	0.82
77.1	11.73	0.82	90.1	10.37	0.82
77.5	11.29	0.82	90.4	10.14	0.82
77.8	11.44	0.82	90.8	10.58	0.82
78.2	10.89	0.82	91.1	10.32	0.82
78.5	11.18	0.82	91.5	10.36	0.82
78.9	11.12	0.82	91.8	10.25	0.82
79.2	11.82	0.82	92.2	10.31	0.82
79.6	12.26	0.82	92.5	10.59	0.82
79.9	11.49	0.82	92.9	10.54	0.82
80.3	11.10	0.82	93.2	10.74	0.82
80.6	11.12	0.82	93.6	10.76	0.82
81.0	11.35	0.82	93.9	11.08	0.82
81.3	11.31	0.82	94.3	10.92	0.82
81.7	11.54	0.82	94.6	10.98	0.82
82.0	11.56	0.82	95.0	11.17	0.82
82.4	10.71	0.82	95.3	10.51	0.82
82.7	11.02	0.82	95.7	11.20	0.82
83.1	11.14	0.82	96.0	11.29	0.82
83.4	10.87	0.82	96.4	10.57	0.82
83.8	10.75	0.82	96.7	11.15	0.82
84.1	10.53	0.82	97.1	11.09	0.82
84.5	10.61	0.82	97.4	10.69	0.82
84.8	10.79	0.82	97.8	11.54	0.82
85.2	10.44	0.82	98.1	10.98	0.82
85.5	10.62	0.82	98.5	11.33	0.82
85.9	10.82	0.82	98.8	11.36	0.82
86.2	10.65	0.82	99.2	11.02	0.82
86.6	10.83	0.82	99.5	11.64	0.82
86.9	10.45	0.82	99.9	11.32	0.82
87.3	10.48	0.82	100.2	11.22	0.82
87.6	10.42	0.82	100.6	11.58	0.82

F-02P-02-008 (Rev.02)

교 정 결 과

CALIBRATION RESULT



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 교 정 번 호(Calibration No) : C-2024-000403

페이지(page) : 4 of 4

2. Conversion Loss Data (cont.)

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
100.9	10.59	0.82	105.8	10.89	0.82
101.3	11.05	0.82	106.2	10.19	0.82
101.6	10.93	0.82	106.5	10.68	0.82
102.0	10.41	0.82	106.9	10.60	0.82
102.3	11.15	0.82	107.2	9.83	0.82
102.7	10.96	0.82	107.6	9.31	0.82
103.0	10.94	0.82	107.9	9.52	0.82
103.4	11.08	0.82	108.3	8.58	0.82
103.7	10.99	0.82	108.6	9.63	0.82
104.1	11.21	0.82	109.0	8.92	0.82
104.4	10.16	0.82	109.3	9.03	0.82
104.8	9.96	0.82	109.7	9.21	0.82
105.1	9.89	0.82	110.0	8.75	0.82
105.5	10.03	0.82	-	-	-

끝.

F-02P-02-008 (Rev.02)