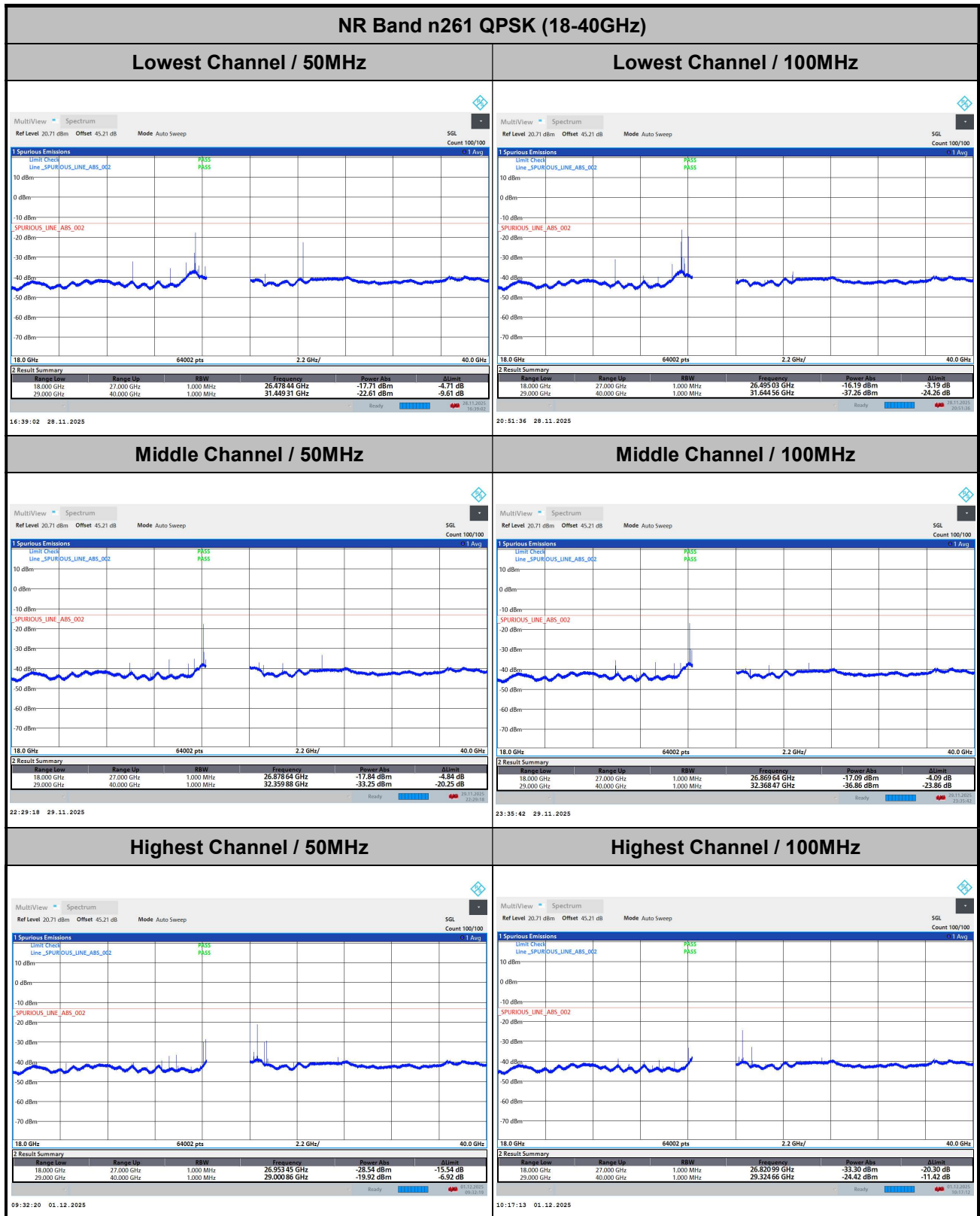




Spurious emission between 18GHz to 40GHz worst case plot is reported as following.

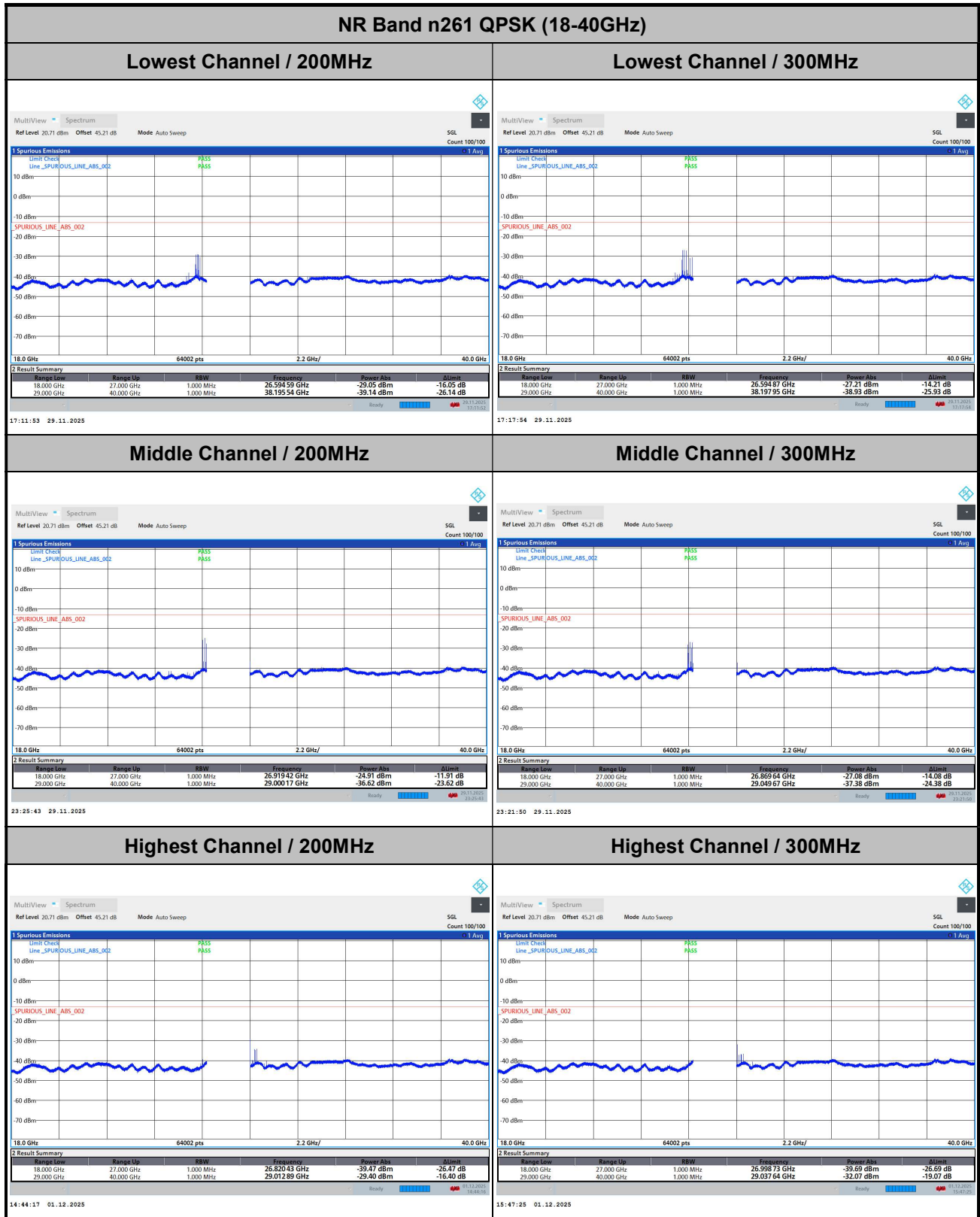
DFT-s-OFDM



Remark: In band and out of band frequencies are omitted.



DFT-s-OFDM



Remark: In band and out of band frequencies are omitted.



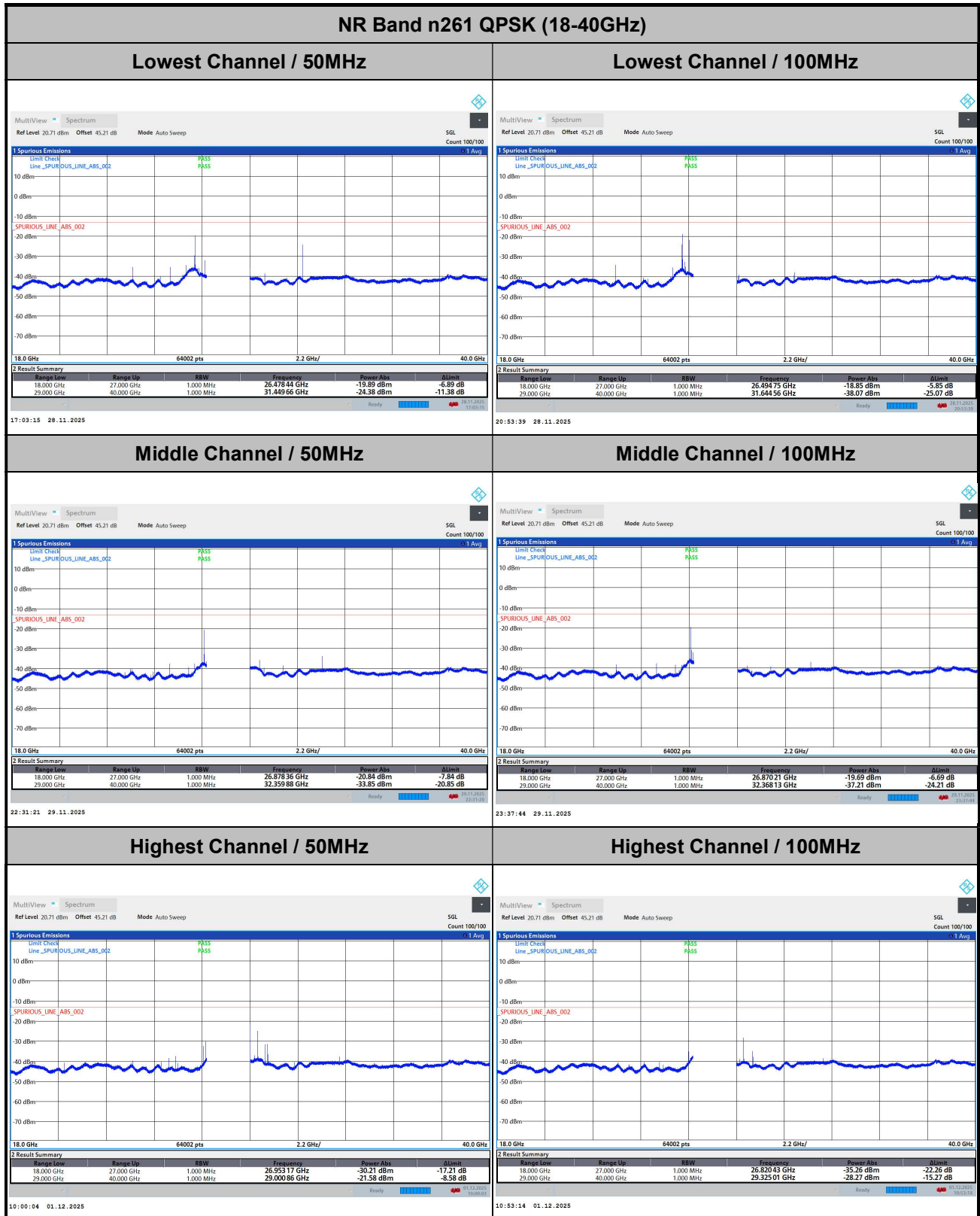
DFT-s-OFDM

NR Band n261 QPSK (18-40GHz)																		
Lowest Channel / 400MHz																		
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr><tr><td>18.000 GHz</td><td>27.000 GHz</td><td>1.000 MHz</td><td>26.794 83 GHz</td><td>-27.84 dBm</td><td>-14.84 dB</td></tr><tr><td>29.000 GHz</td><td>40.000 GHz</td><td>1.000 MHz</td><td>38.908 80 GHz</td><td>-39.19 dBm</td><td>-26.19 dB</td></tr></table> 17:40:16 29.11.2025 intentionally blank	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18.000 GHz	27.000 GHz	1.000 MHz	26.794 83 GHz	-27.84 dBm	-14.84 dB	29.000 GHz	40.000 GHz	1.000 MHz	38.908 80 GHz	-39.19 dBm	-26.19 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit													
18.000 GHz	27.000 GHz	1.000 MHz	26.794 83 GHz	-27.84 dBm	-14.84 dB													
29.000 GHz	40.000 GHz	1.000 MHz	38.908 80 GHz	-39.19 dBm	-26.19 dB													
Middle Channel / 400MHz																		
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr><tr><td>18.000 GHz</td><td>27.000 GHz</td><td>1.000 MHz</td><td>26.919 71 GHz</td><td>-27.76 dBm</td><td>-14.76 dB</td></tr><tr><td>29.000 GHz</td><td>40.000 GHz</td><td>1.000 MHz</td><td>29.000 17 GHz</td><td>-38.39 dBm</td><td>-25.39 dB</td></tr></table> 23:17:28 29.11.2025 intentionally blank	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18.000 GHz	27.000 GHz	1.000 MHz	26.919 71 GHz	-27.76 dBm	-14.76 dB	29.000 GHz	40.000 GHz	1.000 MHz	29.000 17 GHz	-38.39 dBm	-25.39 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit													
18.000 GHz	27.000 GHz	1.000 MHz	26.919 71 GHz	-27.76 dBm	-14.76 dB													
29.000 GHz	40.000 GHz	1.000 MHz	29.000 17 GHz	-38.39 dBm	-25.39 dB													
Highest Channel / 400MHz																		
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGL Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm 18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr><tr><td>18.000 GHz</td><td>27.000 GHz</td><td>1.000 MHz</td><td>26.944 45 GHz</td><td>-28.99 dBm</td><td>-15.99 dB</td></tr><tr><td>29.000 GHz</td><td>40.000 GHz</td><td>1.000 MHz</td><td>29.064 79 GHz</td><td>-33.18 dBm</td><td>-20.18 dB</td></tr></table> 16:39:06 01.12.2025 intentionally blank	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18.000 GHz	27.000 GHz	1.000 MHz	26.944 45 GHz	-28.99 dBm	-15.99 dB	29.000 GHz	40.000 GHz	1.000 MHz	29.064 79 GHz	-33.18 dBm	-20.18 dB
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit													
18.000 GHz	27.000 GHz	1.000 MHz	26.944 45 GHz	-28.99 dBm	-15.99 dB													
29.000 GHz	40.000 GHz	1.000 MHz	29.064 79 GHz	-33.18 dBm	-20.18 dB													

Remark: In band and out of band frequencies are omitted.



CP-OFDM



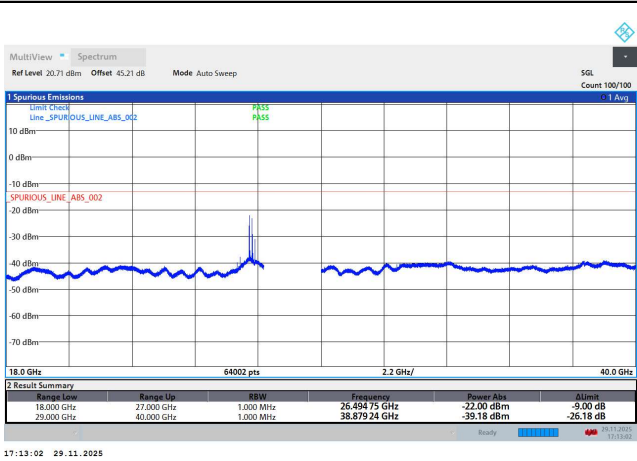
Remark: In band and out of band frequencies are omitted.



CP-OFDM

NR Band n261 QPSK (18-40GHz)

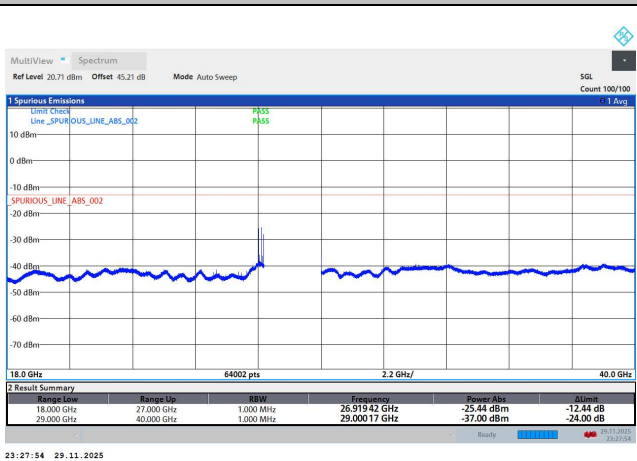
Lowest Channel / 200MHz



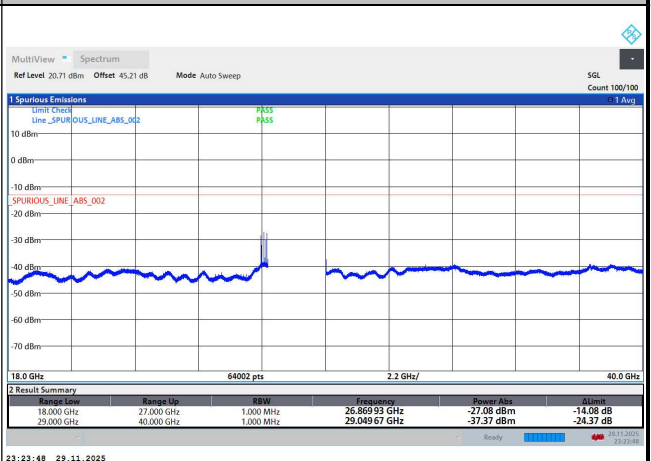
Lowest Channel / 300MHz



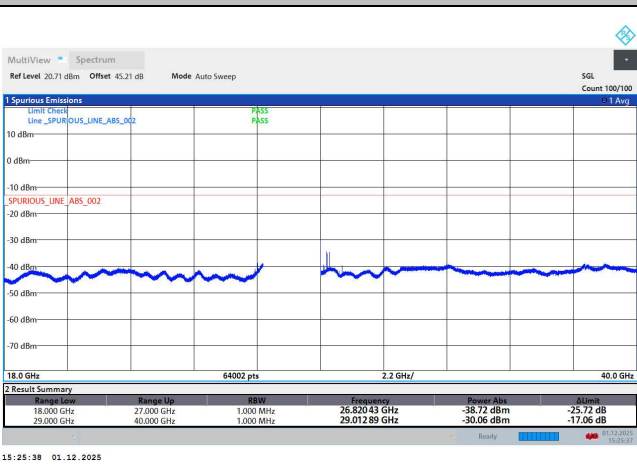
Middle Channel / 200MHz



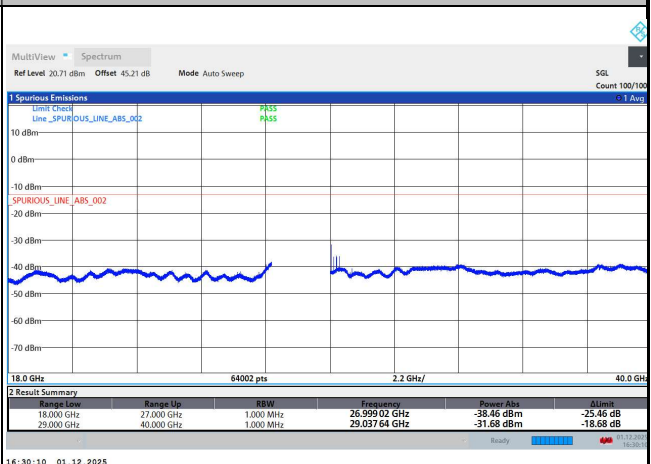
Middle Channel / 300MHz



Highest Channel / 200MHz



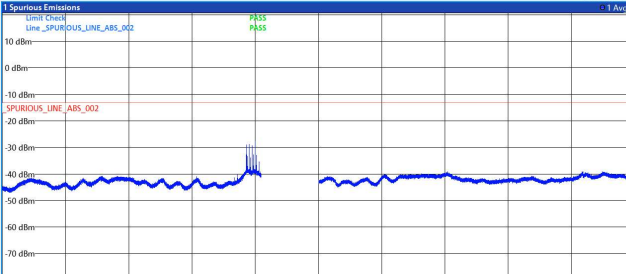
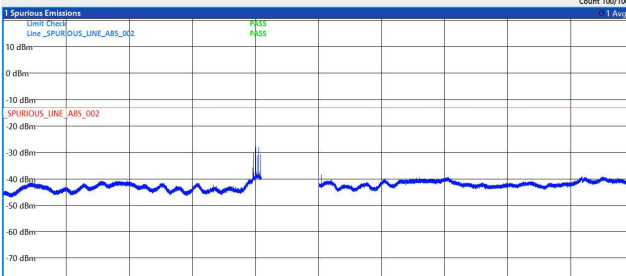
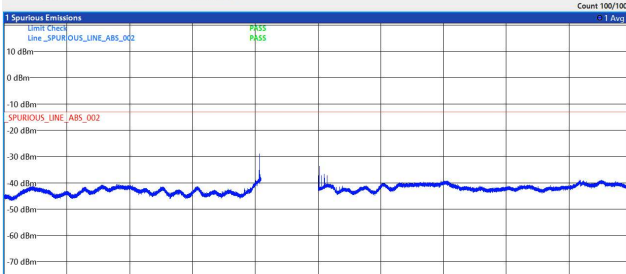
Highest Channel / 300MHz



Remark: In band and out of band frequencies are omitted.



CP-OFDM

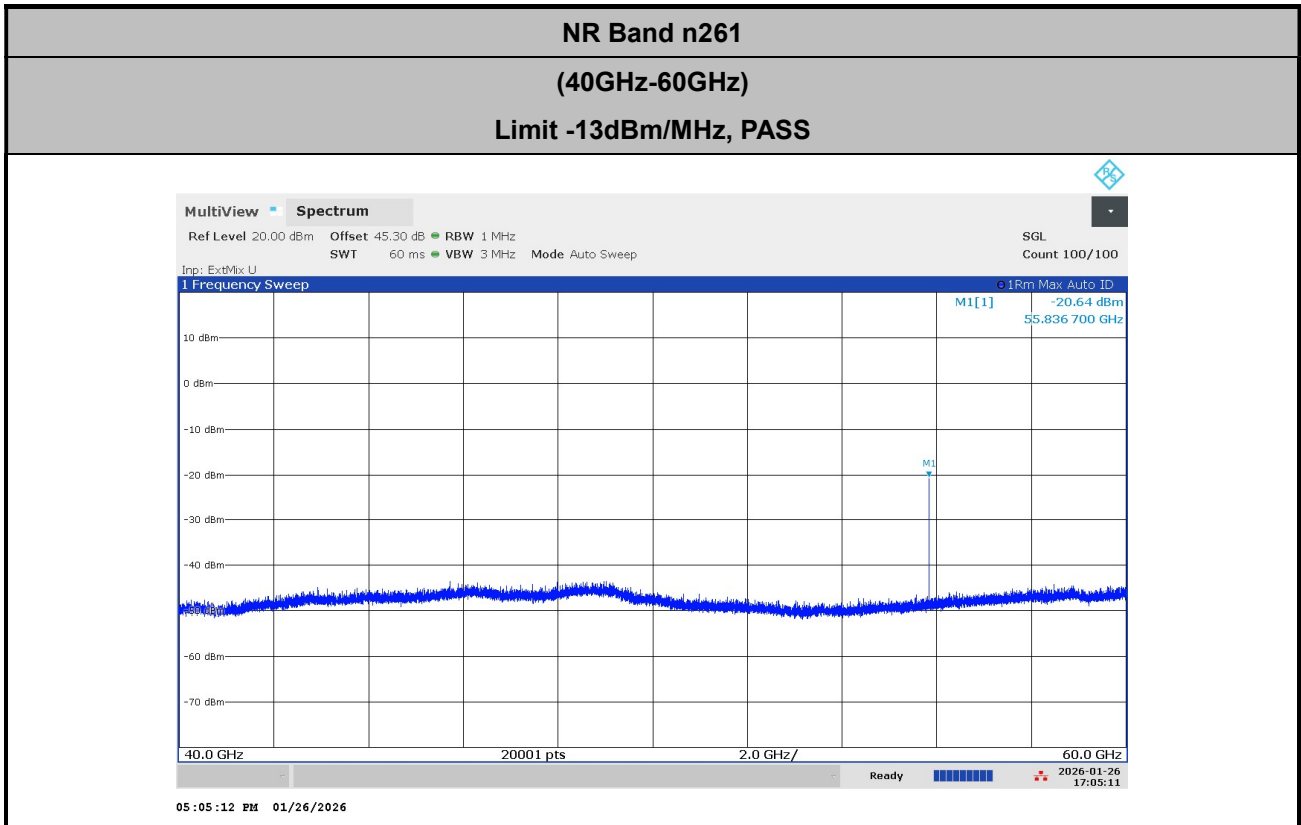
NR Band n261 QPSK (18-40GHz)																			
Lowest Channel / 400MHz																			
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGS Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS  18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>26.794 55 GHz</td><td>-27.73 dBm</td><td>-14.73 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>38.879 24 GHz</td><td>-39.17 dBm</td><td>-26.17 dB</td></tr></tbody></table> 17:44:43 29.11.2025	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18,000 GHz	27,000 GHz	1,000 MHz	26.794 55 GHz	-27.73 dBm	-14.73 dB	29,000 GHz	40,000 GHz	1,000 MHz	38.879 24 GHz	-39.17 dBm	-26.17 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit														
18,000 GHz	27,000 GHz	1,000 MHz	26.794 55 GHz	-27.73 dBm	-14.73 dB														
29,000 GHz	40,000 GHz	1,000 MHz	38.879 24 GHz	-39.17 dBm	-26.17 dB														
Middle Channel / 400MHz																			
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGS Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS  18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>26.919 42 GHz</td><td>-27.99 dBm</td><td>-14.99 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>29.000 17 GHz</td><td>-38.26 dBm</td><td>-25.26 dB</td></tr></tbody></table> 23:19:19 29.11.2025	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18,000 GHz	27,000 GHz	1,000 MHz	26.919 42 GHz	-27.99 dBm	-14.99 dB	29,000 GHz	40,000 GHz	1,000 MHz	29.000 17 GHz	-38.26 dBm	-25.26 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit														
18,000 GHz	27,000 GHz	1,000 MHz	26.919 42 GHz	-27.99 dBm	-14.99 dB														
29,000 GHz	40,000 GHz	1,000 MHz	29.000 17 GHz	-38.26 dBm	-25.26 dB														
Highest Channel / 400MHz																			
MultiView Spectrum Ref Level 20.71 dBm Offset 45.21 dB Mode Auto Sweep SGS Count 100/100 1 Spurious Emissions Limit Check Line SPURIOUS_LINE_ABS_002 PASS PASS  18.0 GHz 64002 pts 2.2 GHz/ 40.0 GHz 2 Result Summary <table><thead><tr><th>Range Low</th><th>Range Up</th><th>RBW</th><th>Frequency</th><th>Power Abs</th><th>ΔLimit</th></tr></thead><tbody><tr><td>18,000 GHz</td><td>27,000 GHz</td><td>1,000 MHz</td><td>26.944 17 GHz</td><td>-29.02 dBm</td><td>-16.02 dB</td></tr><tr><td>29,000 GHz</td><td>40,000 GHz</td><td>1,000 MHz</td><td>29.064 45 GHz</td><td>-33.65 dBm</td><td>-20.65 dB</td></tr></tbody></table> 17:05:52 01.12.2025	Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit	18,000 GHz	27,000 GHz	1,000 MHz	26.944 17 GHz	-29.02 dBm	-16.02 dB	29,000 GHz	40,000 GHz	1,000 MHz	29.064 45 GHz	-33.65 dBm	-20.65 dB	intentionally blank
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit														
18,000 GHz	27,000 GHz	1,000 MHz	26.944 17 GHz	-29.02 dBm	-16.02 dB														
29,000 GHz	40,000 GHz	1,000 MHz	29.064 45 GHz	-33.65 dBm	-20.65 dB														

Remark: In band and out of band frequencies are omitted.

There is no significant spurious emission signal found for frequency started from 40GHz up to 200GHz.



Only the noise floor is reported.



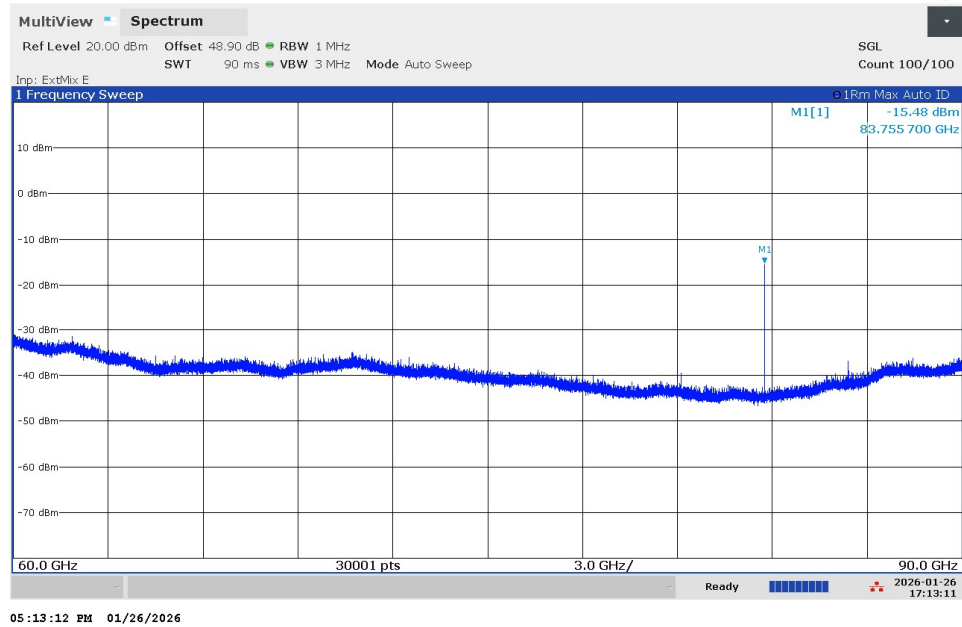
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 42.6 + 0.5 + 107 + 20\log(1) - 104.8 = 45.3(\text{dB}) \end{aligned}$$



NR Band n261

(60GHz-90GHz)

Limit -13dBm/MHz, PASS



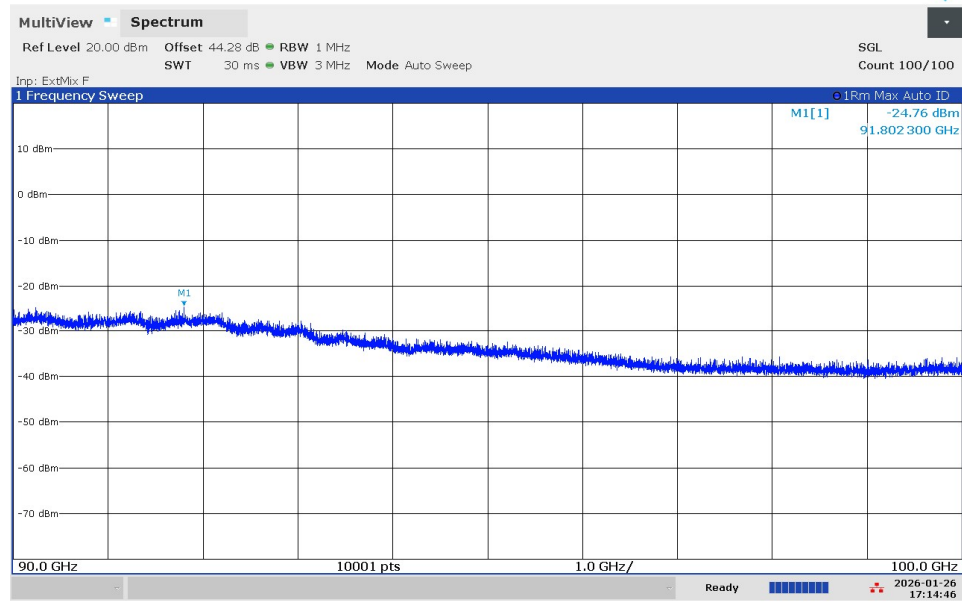
$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 46.2 + 0.5 + 107 + 20\log(1) - 104.8 = 48.9 \text{ (dB)} \end{aligned}$$



NR Band n261

(90GHz-100GHz)

Limit -13dBm/MHz, PASS



$$\begin{aligned} \text{Offset} &= \text{Antenna Factor (dB/m)} + \text{Cable Loss (dB)} + 107 + 20\log(D) - 104.8 \\ &= 47.6 + 0.5 + 107 + 20\log(0.5) - 104.8 = 44.28 \text{ (dB)} \end{aligned}$$

Frequency Stability

Test Conditions		NR Band n261 / Middle Channel			Limit
Temperature (°C)	Voltage (Volt)	CW tone			Note 2.
		Frequency (GHz)	Deviation (kHz)	Deviation (ppm)	Result
50	Normal Voltage	27.924947053	17.982	0.644	Pass
40	Normal Voltage	27.924952048	12.987	0.465	
30	Normal Voltage	27.924956044	8.991	0.322	
20(Ref.)	Normal Voltage	27.924965035	0.000	0.000	
10	Normal Voltage	27.924962038	2.997	0.107	
0	Normal Voltage	27.924967033	-1.998	0.072	
-10	Normal Voltage	27.924973027	-7.992	0.286	
-20	Normal Voltage	27.924976024	-10.989	0.394	
-30	Normal Voltage	27.924990000	-24.965	0.894	
20	Maximum Voltage	27.924958042	6.993	0.250	
20	Normal Voltage	27.924960040	4.995	0.179	
20	Battery End Point	27.924956044	8.991	0.322	

Note:

1. Normal Voltage = 3.9 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the operation band.



Appendix B. R&S Mixer and Horn Antenna Calibration Reports

- Certificate No : IC-2024-057622
- Calibration No : C-2024-067791

page : 1 of 3

1. Client- Name : SPORTON INTERNATIONAL INC.
- Address : No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan, R.O.C.**2. Calibration Subject**

◇Registration No : 527287

- Description : HARMONIC MIXER
- Manufacturer and Model Name : ROHDE & SCHWARZ / FS-Z60
- Serial Number : 101033**3. Date of Calibration**

: 2024.06.27

4. Environment- Temperature : (23.1 ± 0.3) °C - Humidity : (48 ± 2) % R.H.
- Location : Permanent Calibration Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea)**5. Traceability****Calibration method and/or brief description**

This certifies that the equipment has been calibrated using applicable HCT procedure(HCT-CS-125-40641), in compliance with ISO/IEC 17025. Measurement are traceable to the International System of Unit (SI) via national metrology institutes.

List of used standards/specifications

Description	Manufacturer / Model Name	Serial Number	The due date of next Calibration	Calibration laboratory
PSG ANALOG SIGNAL GENERATOR	AGILENT/E8257D	MY46130629	2025/06/12	HCT CO., LTD.
THERMAL POWER SENSOR	ROHDE & SCHWARZ/NRP110T	101259	2025/05/14	ROHDE & SCHWARZ
WR-19 MULTIPLIER SOURCE MODULE	OML/S19MS-A	160516-1	2024/07/19	HCT CO., LTD.
SIGNAL & SPECTRUM ANALYZER	ROHDE & SCHWARZ/FSW43	102337	2024/07/11	HCT CO., LTD.

6. Calibration result

: Refer to attachment

7. Measurement uncertainty

: Refer to attachment

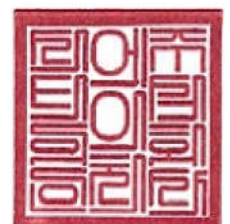
(Confidence level about 95 %, $k = 2$)

affirmation	Measurements performed by	(signature)	Approved by	(signature)
	Name : Seokhoon Kang		Title Technical Cal. Manager Name Kwangchul Kim	

The above calibration certificate is the accredited calibration items by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2024. 06. 27

Accredited by KOLAS, Republic of KOREA

HCT Co., Ltd.

(NOTE) If any significant instability or other adverse factor(overload, temperature, humidity etc.) manifests itself before, during or after calibration, and is likely to affect the validity of the calibration.

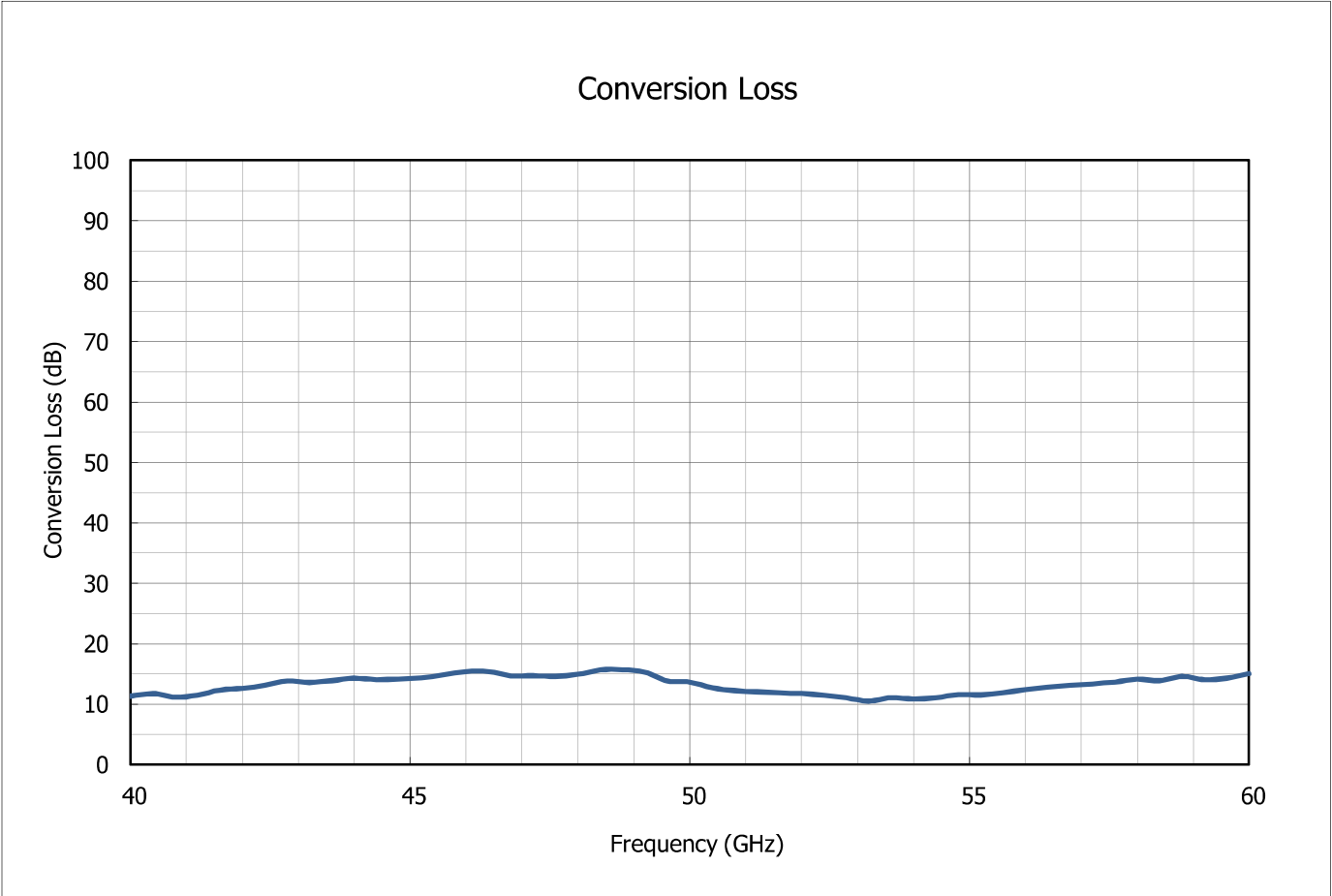
Calibration Results



Certificate No : IC-2024-057622
Calibration No : C-2024-067791

page : 2 of 3

※ Conversion Loss Graph



[Note]

1. Measurement Condition : RF = -30 dBm, Harmonic Order = 4, L.O. Level = 15.5 dBm, IF = 1 330 MHz, Bias Value = 0.00 mA

Calibration Results



Certificate No : IC-2024-057622

Calibration No : C-2024-067791

page : 3 of 3

1. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
40.0	11.34	0.82	50.4	12.73	0.82
40.4	11.77	0.82	50.8	12.26	0.82
40.8	11.17	0.82	51.2	12.05	0.82
41.2	11.51	0.82	51.6	11.87	0.82
41.6	12.36	0.82	52.0	11.77	0.82
42.0	12.64	0.82	52.4	11.48	0.82
42.4	13.13	0.82	52.8	11.06	0.82
42.8	13.85	0.82	53.2	10.53	0.82
43.2	13.60	0.82	53.6	11.10	0.82
43.6	13.91	0.82	54.0	10.88	0.82
44.0	14.31	0.82	54.4	11.08	0.82
44.4	14.08	0.82	54.8	11.60	0.82
44.8	14.18	0.82	55.2	11.56	0.82
45.2	14.36	0.82	55.6	11.90	0.82
45.6	14.88	0.82	56.0	12.44	0.82
46.0	15.42	0.82	56.4	12.81	0.82
46.4	15.42	0.82	56.8	13.11	0.82
46.8	14.70	0.82	57.2	13.37	0.82
47.2	14.73	0.82	57.6	13.69	0.82
47.6	14.63	0.82	58.0	14.13	0.82
48.0	14.95	0.82	58.4	13.91	0.82
48.4	15.68	0.82	58.8	14.61	0.82
48.8	15.72	0.82	59.2	14.08	0.82
49.2	15.30	0.82	59.6	14.33	0.82
49.6	13.86	0.82	60.0	15.07	0.82
50.0	13.68	0.82	-	-	-

END.

- Certificate No : IC-2024-057625
- Calibration No : C-2024-067794

page : 1 of 3

1. Client

- Name : SPORTON INTERNATIONAL INC.
- Address : No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan, R.O.C.

2. Calibration Subject

◇Registration No : 527290

- Description : HARMONIC MIXER
- Manufacturer and Model Name : ROHDE & SCHWARZ / FS-Z90
- Serial Number : 101867

3. Date of Calibration

: 2024.06.27

4. Environment

- Temperature : (23.2 $\pm$ 0.3) $^{\circ}$ C - Humidity : (48 $\pm$ 2) % R.H.
- Location : Permanent Calibration Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea)

5. Traceability**Calibration method and/or brief description**

This certifies that the equipment has been calibrated using applicable HCT procedure(HCT-CS-125-40641), in compliance with ISO/IEC 17025. Measurement are traceable to the International System of Unit (SI) via national metrology institutes.

List of used standards/specifications

Description	Manufacturer / Model Name	Serial Number	The due date of next Calibration	Calibration laboratory
PSG ANALOG SIGNAL GENERATOR	AGILENT/E8257D	MY46130629	2025/06/12	HCT CO., LTD.
WR-12 MULTIPLIER SOURCE MODULE	OML/S12MS-A	160419-1	2024/07/19	HCT CO., LTD.
SIGNAL & SPECTRUM ANALYZER	ROHDE & SCHWARZ/FSW43	102337	2024/07/11	HCT CO., LTD.
THERMAL POWER SENSOR	ROHDE & SCHWARZ/NRP110T	101259	2025/05/14	ROHDE & SCHWARZ

6. Calibration result

: Refer to attachment

7. Measurement uncertainty

: Refer to attachment

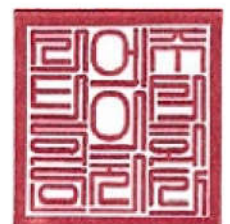
(Confidence level about 95 %, $k = 2$)

affirmation	Measurements performed by		Approved by	
	Name : Seokhoon Kang		Title Technical Cal. Manager Name Kwangchul Kim	

The above calibration certificate is the accredited calibration items by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2024. 06. 27

Accredited by KOLAS, Republic of KOREA

HCT Co., Ltd.

(NOTE) If any significant instability or other adverse factor(overload, temperature, humidity etc.) manifests itself before, during or after calibration, and is likely to affect the validity of the calibration.

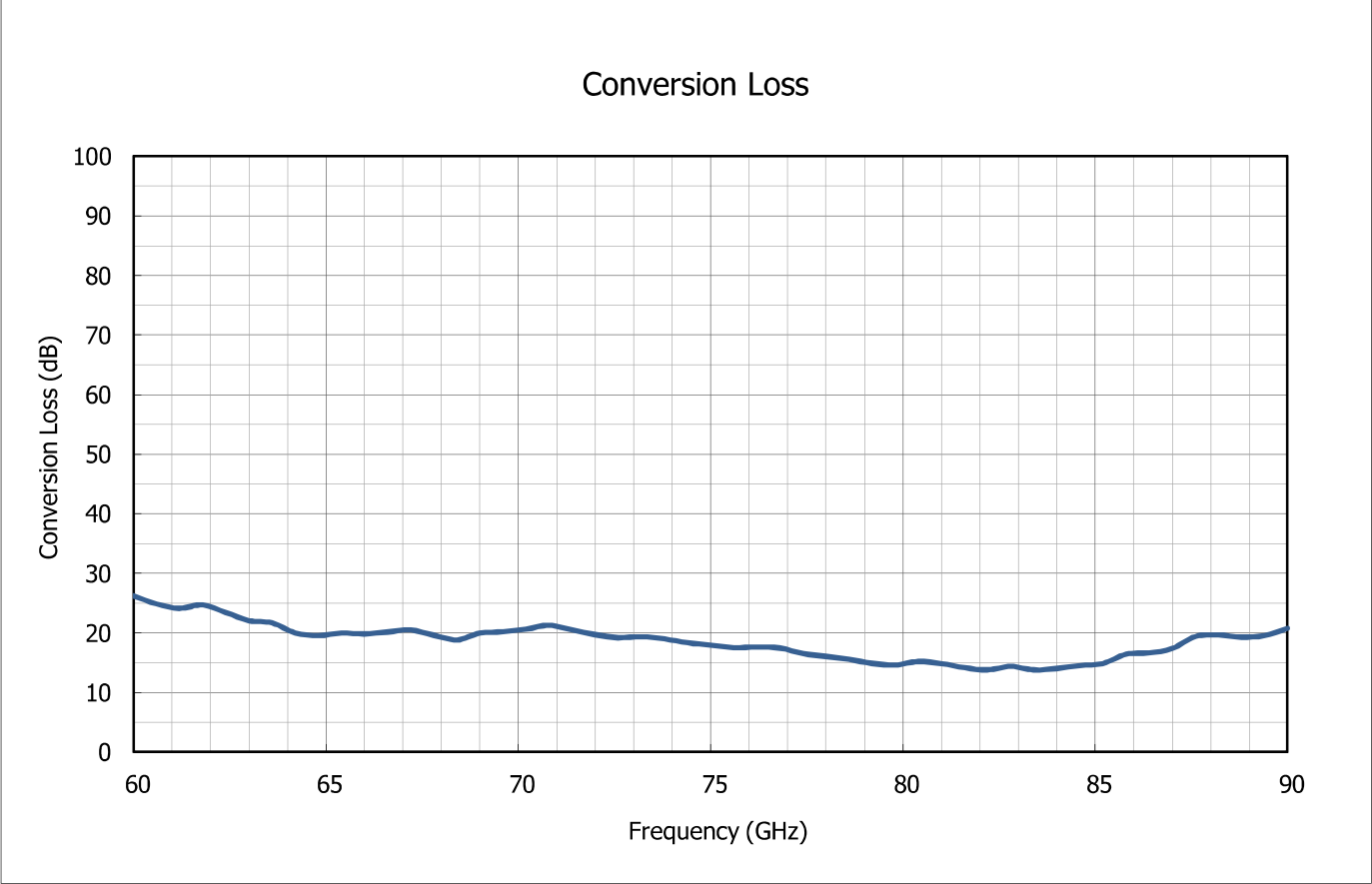
Calibration Results



Certificate No : IC-2024-057625
Calibration No : C-2024-067794

page : 2 of 3

※ Conversion Loss Graph



[Note]

1. Measurement Condition : RF = -30 dBm, Harmonic Order = 6, L.O. Level = 15.5 dBm, IF = 1 330 MHz, Bias Value = 0.00 mA

Calibration Results



Certificate No : IC-2024-057625

Calibration No : C-2024-067794

page : 3 of 3

1. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
60.0	26.25	0.82	75.6	17.55	0.82
60.6	24.88	0.82	76.2	17.67	0.82
61.2	24.13	0.82	76.8	17.48	0.82
61.8	24.70	0.82	77.4	16.54	0.82
62.4	23.44	0.82	78.0	16.09	0.82
63.0	22.07	0.82	78.6	15.56	0.82
63.6	21.70	0.82	79.2	14.91	0.82
64.2	20.03	0.82	79.8	14.63	0.82
64.8	19.57	0.82	80.4	15.22	0.82
65.4	19.98	0.82	81.0	14.88	0.82
66.0	19.85	0.82	81.6	14.17	0.82
66.6	20.17	0.82	82.2	13.81	0.82
67.2	20.50	0.82	82.8	14.41	0.82
67.8	19.62	0.82	83.4	13.81	0.82
68.4	18.82	0.82	84.0	14.05	0.82
69.0	19.95	0.82	84.6	14.53	0.82
69.6	20.23	0.82	85.2	14.88	0.82
70.2	20.61	0.82	85.8	16.44	0.82
70.8	21.30	0.82	86.4	16.67	0.82
71.4	20.49	0.82	87.0	17.38	0.82
72.0	19.73	0.82	87.6	19.41	0.82
72.6	19.21	0.82	88.2	19.67	0.82
73.2	19.38	0.82	88.8	19.31	0.82
73.8	19.00	0.82	89.4	19.56	0.82
74.4	18.34	0.82	90.0	20.80	0.82
75.0	17.98	0.82	-	-	-

END.

- Certificate No : IC-2024-057623
- Calibration No : C-2024-067792

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1. Client

- Name : SPORTON INTERNATIONAL INC.
- Address : No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist., Taoyuan City 333, Taiwan, R.O.C.

2. Calibration Subject

◇Registration No : 527288

- Description : HARMONIC MIXER
- Manufacturer and Model Name : ROHDE & SCHWARZ / FS-Z140
- Serial Number : 101130

3. Date of Calibration

: 2024.06.27

4. Environment

- Temperature : (23.1 $\pm$ 0.4) °C - Humidity : (49 $\pm$ 2) % R.H.
- Location : Permanent Calibration Lab
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea)

5. Traceability**Calibration method and/or brief description**

This certifies that the equipment has been calibrated using applicable HCT procedure(HCT-CS-125-40641), in compliance with ISO/IEC 17025. Measurement are traceable to the International System of Unit (SI) via national metrology institutes.

List of used standards/specifications

Description	Manufacturer / Model Name	Serial Number	The due date of next Calibration	Calibration laboratory
PSG ANALOG SIGNAL GENERATOR	AGILENT/E8257D	MY46130629	2025/06/12	HCT CO., LTD.
THERMAL POWER SENSOR	ROHDE & SCHWARZ/NRP110T	101259	2025/05/14	ROHDE & SCHWARZ
WR-08 MULTIPLIER SOURCE MODULE	OML/S08MS-A	160419-1	2024/07/19	HCT CO., LTD.
SIGNAL & SPECTRUM ANALYZER	ROHDE & SCHWARZ/FSW43	102337	2024/07/11	HCT CO., LTD.

6. Calibration result

: Refer to attachment

7. Measurement uncertainty

: Refer to attachment

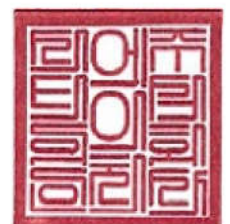
(Confidence level about 95 %, $k = 2$)

affirmation	Measurements performed by	(signature)	Approved by	(signature)
	Name : Seokhoon Kang		Title Technical Cal. Manager Name Kwangchul Kim	

The above calibration certificate is the accredited calibration items by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2024. 06. 27

Accredited by KOLAS, Republic of KOREA

HCT Co., Ltd.

(NOTE) If any significant instability or other adverse factor(overload, temperature, humidity etc.) manifests itself before, during or after calibration, and is likely to affect the validity of the calibration.

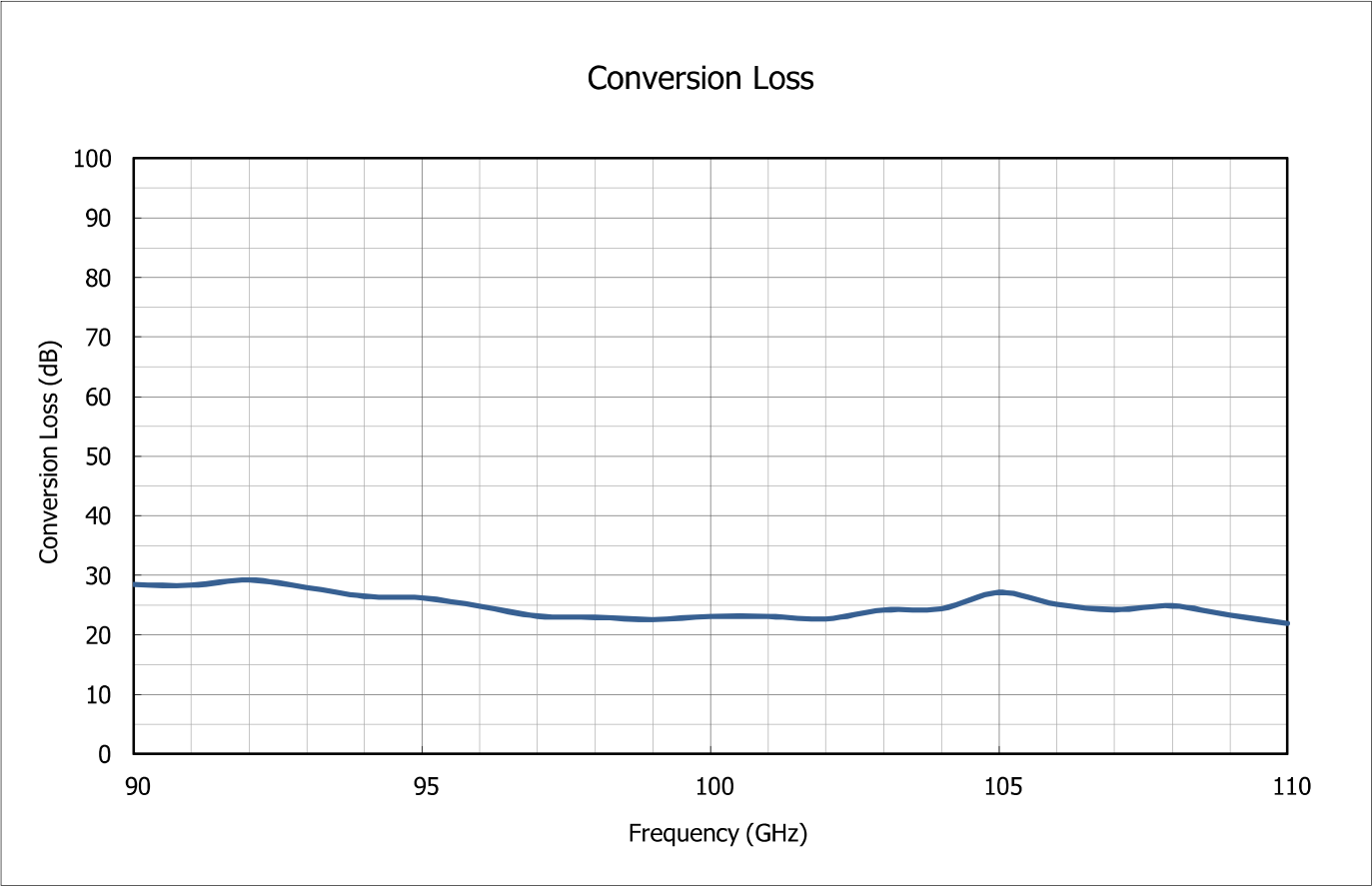
Calibration Results



Certificate No : IC-2024-057623
Calibration No : C-2024-067792

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※ Conversion Loss Graph



[Note]

1. Measurement Condition : RF = -30 dBm, Harmonic Order = 10, L.O. Level = 15.5 dBm, IF = 1 330 MHz, Bias Value = 0.00 mA

Calibration Results



Certificate No : IC-2024-057623

Calibration No : C-2024-067792

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1. Conversion Loss Data

Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)	Frequency (GHz)	Conversion Loss (dB)	Measurement Uncertainty (dB)
90.0	28.44	0.82	101.0	23.08	0.82
91.0	28.33	0.82	102.0	22.69	0.82
92.0	29.21	0.82	103.0	24.17	0.82
93.0	27.97	0.82	104.0	24.41	0.82
94.0	26.49	0.82	105.0	27.13	0.82
95.0	26.21	0.82	106.0	25.15	0.82
96.0	24.82	0.82	107.0	24.24	0.82
97.0	23.16	0.82	108.0	24.88	0.82
98.0	22.96	0.82	109.0	23.31	0.82
99.0	22.60	0.82	110.0	21.96	0.82
100.0	23.10	0.82	-	-	-

END.