

**Appendix A. Calibration certificate**  
**Appendix A.1 Probe Calibration certificate (EX3DV4\_7541)**

**Calibration Laboratory of**  
 Schmid & Partner  
 Engineering AG  
 Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
 The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client: **Eurofins KCTL (Dymstec)**

Certificate No **EX-7541\_Jul22**

**CALIBRATION CERTIFICATE**

Object: **EX3DV4 - SN:7541**

Calibration procedure(s): **QA CAL-01.v9, QA CAL-12.v9, QA CAL-14.v6, QA CAL-23.v5,  
 QA CAL-25.v7  
 Calibration procedure for dosimetric E-field probes**

Calibration date: **July 22, 2022**



This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22±3) °C and humidity < 70%.

Calibration Equipment used (M&E critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power meter NRP	SN: 104778	04-Apr-22 (No. 217-03525/03524)	Apr-23
Power sensor NRP-Z81	SN: 103244	04-Apr-22 (No. 217-03524)	Apr-23
OCP DAK 3.5 (weightless)	SN: 1249	20-Oct-21 (OCP-DAK3.5-1249_Oct21)	Oct-22
OCP DAK-12	SN: 1016	20-Oct-21 (OCP-DAK12-1016_Oct21)	Oct-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	04-Apr-22 (No. 217-03527)	Apr-23
DAE4	SN: 660	18-Oct-21 (No. DAE4-660_Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB412938/4	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: MY41496087	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-22)	In house check: Jun-24
RF generator HP 8848C	SN: US0642U01700	04-Aug-30 (in house check Jun-22)	In house check: Jun-24
Network Analyzer E8268A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

	Name	Function	Signature
Calibrated by	Loth Klynsor	Laboratory Technician	
Approved by	Evert Kötter	Technical Manager	

Issued: July 25, 2022  
 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

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### Glossary

TSL	tissue simulating liquid
NORM <sub>x,y,z</sub>	sensitivity in free space
ConvF	sensitivity in TSL / NORM <sub>x,y,z</sub>
DCP	diode compression point
CF	crest factor (1/duty cycle) of the RF signal
A, B, C, D	modulation dependent linearization parameters
Polarization $\psi$	$\psi$ rotation around probe axis
Polarization $\theta$	$\theta$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\theta = 0$ is normal to probe axis
Connector Angle	Information used in DASY system to align probe sensor X to the robot coordinate system

### Calibration is Performed According to the Following Standards:

- IEC/IEEE 62209-1526, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body Worn Wireless Communication Devices – Part 1526: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDB 565664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

### Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\theta = 0$  ( $f \leq 900$  MHz in TEM cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the E<sup>2</sup>-field uncertainty inside TSL (see below ConvF).
- NORM<sub>eff</sub>(<sub>x,y,z</sub>) = NORM<sub>x,y,z</sub> \* frequency\_response** (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the NORM<sub>x</sub> (no uncertainty required).

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**Parameters of Probe: EX3DV4 - SN:7541**

**Basic Calibration Parameters**

	Sensor X	Sensor Y	Sensor Z	Unc (k = 2)
Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup>	0.63	0.64	0.63	$\pm 10.1\%$
DCP (mV) <sup>B</sup>	99.8	97.8	99.8	$\pm 4.7\%$

**Calibration Results for Modulation Response**

UID	Communication System Name		A dB	B dB $\sqrt{\mu\text{V}}$	C	D dB	VR mV	Max dev.	Max Unc <sup>E</sup> k = 2
0	CW	X	0.00	0.00	1.00	0.00	170.6	$\pm 2.7\%$	$\pm 4.7\%$
		Y	0.00	0.00	1.00		163.5		
		Z	0.00	0.00	1.00		161.1		
10352	Pulse Waveform (200Hz, 10%)	X	17.91	85.05	17.53	10.00	60.0	$\pm 4.0\%$	$\pm 9.6\%$
		Y	20.00	90.42	20.28		60.0		
		Z	2.18	63.51	8.64		60.0		
10353	Pulse Waveform (200Hz, 20%)	X	20.00	86.40	17.28	6.99	80.0	$\pm 2.7\%$	$\pm 9.6\%$
		Y	20.00	91.17	19.66		80.0		
		Z	1.34	61.76	7.11		80.0		
10354	Pulse Waveform (200Hz, 40%)	X	20.00	87.04	16.80	3.98	95.0	$\pm 1.3\%$	$\pm 9.6\%$
		Y	20.00	93.15	19.35		95.0		
		Z	0.73	60.63	5.98		95.0		
10355	Pulse Waveform (200Hz, 60%)	X	20.00	90.18	16.98	2.22	120.0	$\pm 0.7\%$	$\pm 9.6\%$
		Y	20.00	94.02	16.60		120.0		
		Z	0.43	60.31	5.47		120.0		
10387	QPSK Waveform, 1 MHz	X	1.73	66.69	15.37	1.00	150.0	$\pm 2.5\%$	$\pm 9.6\%$
		Y	1.53	64.00	13.64		150.0		
		Z	1.58	65.18	14.33		150.0		
10388	QPSK Waveform, 10MHz	X	2.33	68.74	16.12	0.00	150.0	$\pm 1.0\%$	$\pm 9.6\%$
		Y	2.00	65.84	14.34		150.0		
		Z	2.09	66.64	15.06		150.0		
10396	64-QAM Waveform, 100 kHz	X	3.27	72.25	18.72	3.01	150.0	$\pm 0.8\%$	$\pm 9.6\%$
		Y	2.98	69.85	18.38		150.0		
		Z	2.82	70.88	19.19		150.0		
10399	64-QAM Waveform, 40 MHz	X	3.57	67.43	15.97	0.00	150.0	$\pm 2.1\%$	$\pm 9.6\%$
		Y	3.36	66.07	15.06		150.0		
		Z	3.11	66.53	15.42		150.0		
10414	WLAN CCDF, 64-QAM, 40 MHz	X	4.93	65.66	15.69	0.00	150.0	$\pm 4.1\%$	$\pm 9.6\%$
		Y	4.79	65.06	15.13		150.0		
		Z	4.79	65.33	15.33		150.0		

Note: For details on UID parameters see Appendix

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of Norm X,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TR. (see Pages 5 and 6).  
<sup>B</sup> Linearization parameter uncertainty for maximum specified field strength.  
<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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**Parameters of Probe: EX3DV4 - SN:7541**

**Sensor Model Parameters**

	C1 IF	C2 IF	$\alpha$ V <sup>-1</sup>	T1 ms V <sup>-2</sup>	T2 ms V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
x	47.2	352.41	35.62	24.57	0.00	5.05	1.16	0.30	1.01
y	49.8	377.16	36.19	18.26	0.00	5.10	1.04	0.36	1.01
z	44.4	332.88	35.64	15.76	0.00	4.96	1.76	0.06	1.01

**Other Probe Parameters**

Sensor Arrangement	Triangular
Connector Angle	-89.9°
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	1.4 mm

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

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**Parameters of Probe: EX3DV4 - SN:7541**

**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
750	41.9	0.69	10.30	10.30	10.30	0.42	1.02	±12.0%
850	41.5	0.92	9.95	9.95	9.95	0.52	0.80	±12.0%
900	41.5	0.97	9.88	9.88	9.88	0.45	0.88	±12.0%
1750	40.1	1.37	8.83	8.83	8.83	0.31	0.88	±12.0%
1900	40.0	1.40	8.33	8.33	8.33	0.38	0.88	±12.0%
2300	39.5	1.67	8.04	8.04	8.04	0.34	0.90	±12.0%
2450	39.2	1.80	7.69	7.69	7.69	0.34	0.90	±12.0%
2600	39.0	1.96	7.53	7.53	7.53	0.40	0.90	±12.0%
3300	38.2	2.71	7.03	7.03	7.03	0.35	1.35	±14.0%
3500	37.9	2.91	6.70	6.70	6.70	0.35	1.35	±14.0%
3700	37.7	3.12	6.54	6.54	6.54	0.35	1.35	±14.0%
3900	37.5	3.32	6.51	6.51	6.51	0.40	1.50	±14.0%
4100	37.2	3.53	6.47	6.47	6.47	0.40	1.50	±14.0%
4400	36.9	3.84	6.42	6.42	6.42	0.40	1.80	±14.0%
4600	36.7	4.04	6.41	6.41	6.41	0.40	1.80	±14.0%
4800	36.4	4.25	6.37	6.37	6.37	0.40	1.80	±14.0%
4950	36.3	4.40	6.06	6.06	6.06	0.40	1.80	±14.0%
5250	35.9	4.71	5.43	5.43	5.43	0.40	1.80	±14.0%
5600	35.5	5.07	4.68	4.68	4.68	0.40	1.80	±14.0%
5800	35.3	5.27	4.71	4.71	4.71	0.40	1.80	±14.0%

<sup>C</sup> Frequency valid to above 300MHz at 1100MHz only applies for DASY v1.4 and Higher (see Page 2), else it is restricted to +50MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ±10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 200 MHz respectively. Validity of ConvF assessed at 8 MHz is 4-9MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ±10MHz.

<sup>F</sup> At frequencies up to 6 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ±10%. If liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPPAC reports the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz and below ±2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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**Parameters of Probe: EX3DV4 - SN:7541**

**Calibration Parameter Determined in Head Tissue Simulating Media**

f (MHz) <sup>C</sup>	Relative Permittivity <sup>F</sup>	Conductivity <sup>F</sup> (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k = 2)
6500	34.5	6.07	5.40	5.40	5.40	0.25	2.50	±18.6%
7000	33.9	6.65	4.67	4.67	4.67	0.10	1.80	±18.6%

<sup>C</sup> Frequency validity at 0.5 GHz is -600/+700 MHz, and +700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies 6-10 GHz, the validity of tissue parameters ( $\epsilon'$  and  $\sigma'$ ) can be relaxed to ±10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±6% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

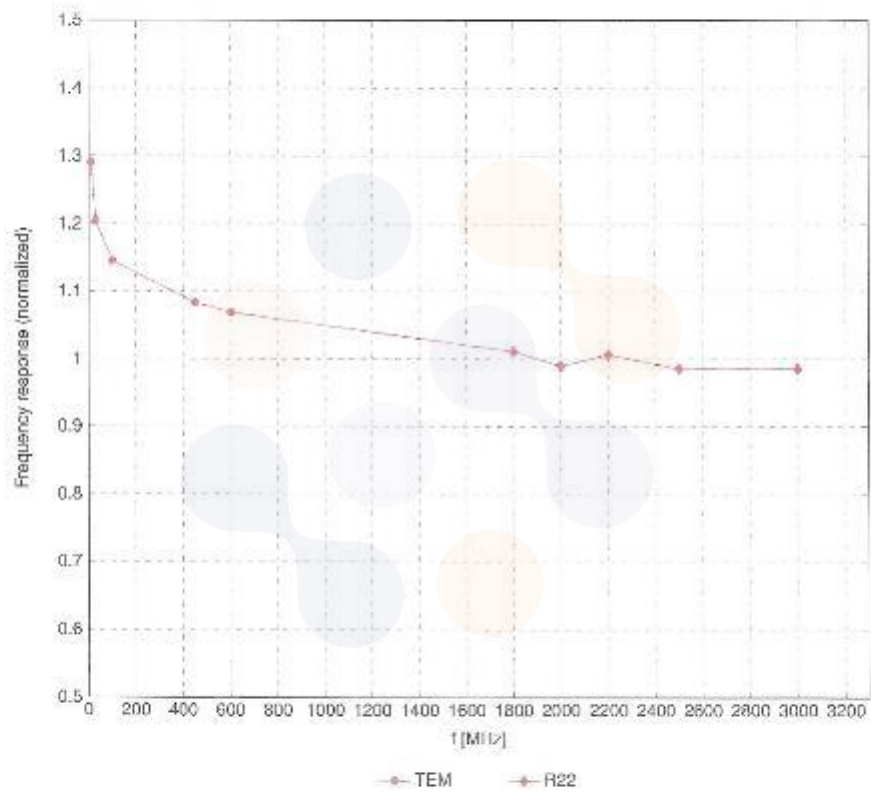


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### Frequency Response of E-Field

(TEM-Cell:ili110 EXX, Waveguide:R22)

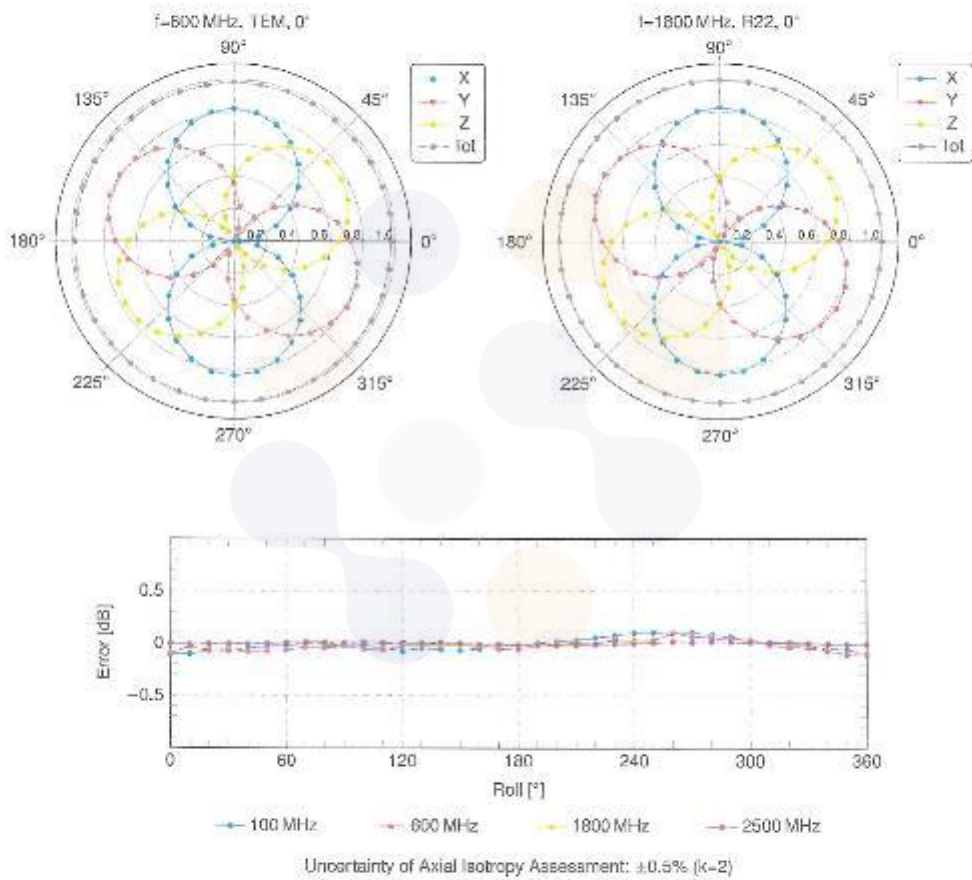


Uncertainty of Frequency Response of E-Field:  $\pm 6.3\%$  (k=2)

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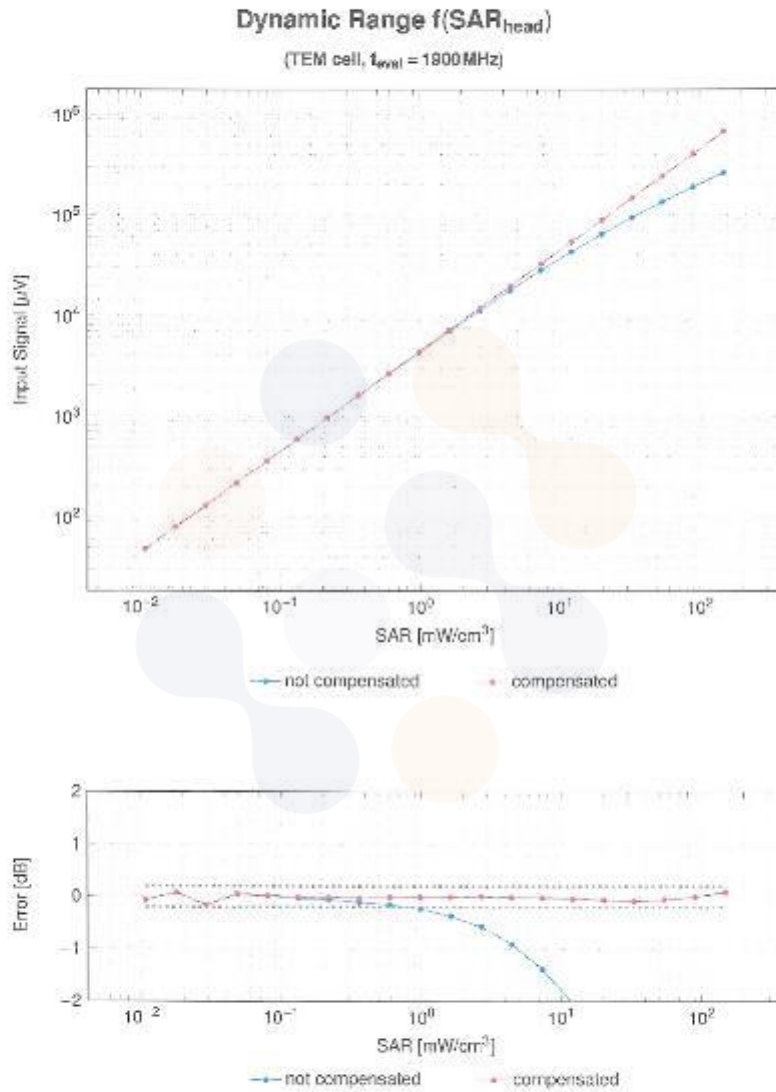
**Receiving Pattern ( $\phi$ ),  $\theta = 0^\circ$**





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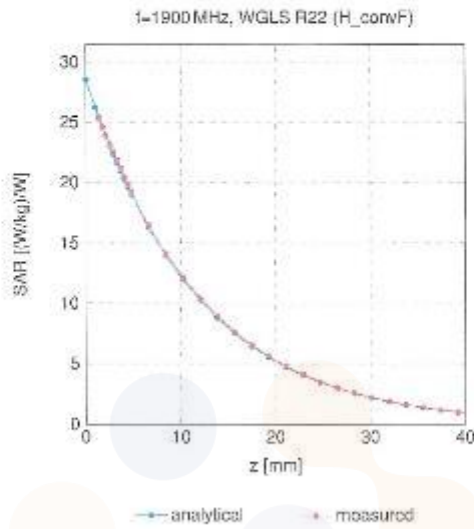


Uncertainty of Linearity Assessment: ±0.6% (k=2)

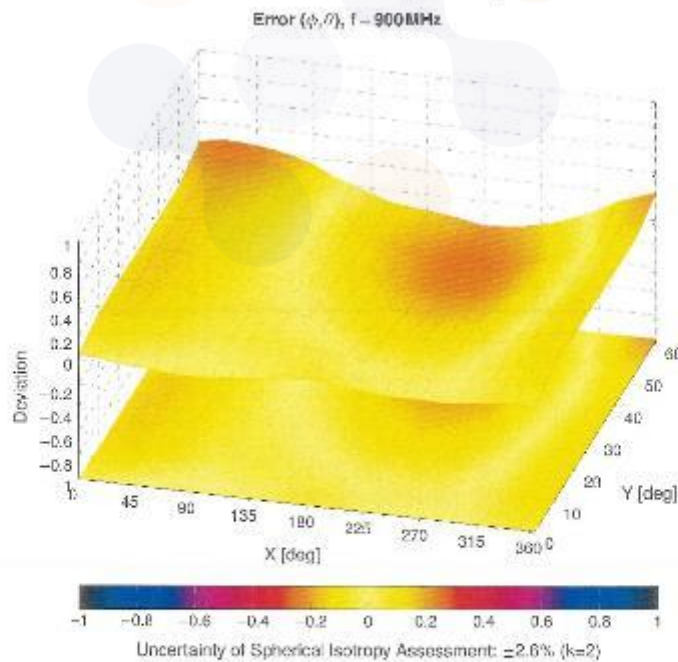
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**Conversion Factor Assessment**



**Deviation from Isotropy in Liquid**



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**Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>F</sup> k=2
0		CW	CW	0.00	±1.7
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	±0.0
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.81	±0.0
10012	CAB	IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps)	WLAN	1.87	±0.0
10013	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 6Mbps)	WLAN	5.48	±0.0
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	5.89	±0.0
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	5.67	±0.0
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.66	±0.0
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.62	±0.0
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	0.66	±0.0
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.60	±0.0
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.66	±0.0
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	±0.0
10030	CAA	IEEE 802.15.1 Bluetooth (QPSK, DH1)	Bluetooth	5.50	±0.0
10031	CAA	IEEE 802.15.1 Bluetooth (QPSK, DH2)	Bluetooth	1.67	±0.0
10032	CAA	IEEE 802.15.1 Bluetooth (QPSK, DH3)	Bluetooth	1.16	±0.0
10033	CAA	IEEE 802.15.1 Bluetooth (FM-QPSK, DH1)	Bluetooth	7.74	±0.0
10034	CAA	IEEE 802.15.1 Bluetooth (FM-QPSK, DH2)	Bluetooth	4.53	±0.0
10035	CAA	IEEE 802.15.1 Bluetooth (FM-QPSK, DH3)	Bluetooth	3.63	±0.0
10036	CAA	IEEE 802.15.1 Bluetooth (B-PSK, DH1)	Bluetooth	8.01	±0.0
10037	CAA	IEEE 802.15.1 Bluetooth (B-PSK, DH2)	Bluetooth	4.77	±0.0
10038	CAA	IEEE 802.15.1 Bluetooth (B-PSK, DH3)	Bluetooth	4.10	±0.0
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	±0.0
10042	CAD	IS-54 / IS-136 FDD (TDMA-FDM, PSK, Full Slot, 24)	AMPS	7.78	±0.0
10044	CAA	IS-674 / IS-632 FDD (CDMA, FM)	AMPS	0.00	±0.0
10048	CAA	DECT (TDD, TDMA-FDM, GFSK, Full Slot, 24)	DECT	13.80	±0.0
10049	CAA	DECT (TDD, TDMA-FDM, GFSK, Double Slot, 12)	DECT	10.70	±0.0
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mbps)	TD-SCDMA	11.01	±0.0
10058	DAC	EDGE-TDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	±0.0
10059	CAB	IEEE 802.11a WiFi 5GHz (DSSS, 2Mbps)	WLAN	2.12	±0.0
10060	CAB	IEEE 802.11a WiFi 5GHz (DSSS, 5.5Mbps)	WLAN	2.83	±0.0
10061	CAB	IEEE 802.11a WiFi 5GHz (DSSS, 11Mbps)	WLAN	3.60	±0.0
10062	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 8Mtpse)	WLAN	6.88	±0.0
10063	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 9Mtpse)	WLAN	6.83	±0.0
10064	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 12Mtpse)	WLAN	9.03	±0.0
10065	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 18Mtpse)	WLAN	9.00	±0.0
10066	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 24Mtpse)	WLAN	9.36	±0.0
10067	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 36Mtpse)	WLAN	10.12	±0.0
10068	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 48Mtpse)	WLAN	10.24	±0.0
10069	CAD	IEEE 802.11ah WiFi 5GHz (OFDM, 54Mtpse)	WLAN	10.56	±0.0
10071	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 9Mbps)	WLAN	9.63	±0.0
10072	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 12Mbps)	WLAN	9.62	±0.0
10073	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 18Mbps)	WLAN	9.94	±0.0
10074	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 24Mbps)	WLAN	10.80	±0.0
10075	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 36Mbps)	WLAN	10.77	±0.0
10076	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 48Mbps)	WLAN	10.94	±0.0
10077	CAB	IEEE 802.11g WiFi 2.4GHz (DSSS/OFDM, 54Mbps)	WLAN	11.00	±0.0
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	±0.0
10082	CAB	IS-54 / IS-136 FDD (TDMA-FDM, PSK, Full Slot)	AMPS	4.77	±0.0
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	5.56	±0.0
10097	CAC	UMTS-FDD (HSPA)	WCDMA	3.98	±0.0
10098	DAC	UMTS-FDD (HSRPA, Subslot 2)	WCDMA	3.98	±0.0
10099	CAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	3.55	±0.0
10100	CAC	LTE-FDD (SU-FDMA, 100% RB, 20MHz, QPSK)	LTE-FDD	5.87	±0.0
10101	CAB	LTE-FDD (SU-FDMA, 100% RB, 20MHz, 16-QAM)	LTE-FDD	6.42	±0.0
10102	CAB	LTE-FDD (SU-FDMA, 100% RB, 20MHz, 64-QAM)	LTE-FDD	6.80	±0.0
10103	DAC	LTE-TDD (SU-FDMA, 100% RB, 20MHz, QPSK)	LTE-TDD	9.29	±0.0
10104	CAE	LTE-TDD (SU-FDMA, 100% RB, 20MHz, 16-QAM)	LTE-TDD	9.97	±0.0
10105	CAE	LTE-TDD (SU-FDMA, 100% RB, 20MHz, 64-QAM)	LTE-TDD	10.01	±0.0
10108	CAE	LTE-FDD (RC-FDMA, 100% RB, 10MHz, QPSK)	LTE-FDD	5.80	±0.0
10109	CAE	LTE-FDD (RC-FDMA, 100% RB, 10MHz, 16-QAM)	LTE-FDD	6.48	±0.0
10110	CAE	LTE-FDD (RC-FDMA, 100% RB, 5MHz, QPSK)	LTE-FDD	5.75	±0.0
10111	CAE	LTE-FDD (RC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-FDD	6.44	±0.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>o</sup> k - 2
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)	LTE-FDD	6.59	±9.0
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-FDD	6.62	±9.0
10114	CAG	IEEE 802.11n (HT Greenfield, 13.5Mbps, BPSK)	WLAN	8.10	±9.0
10115	CAG	IEEE 802.11n (HT Greenfield, 81Mbps, 16-QAM)	WLAN	8.45	±9.0
10116	CAG	IEEE 802.11n (HT Greenfield, 135Mbps, 64-QAM)	WLAN	8.15	±9.0
10117	CAG	IEEE 802.11n (HT Mixed, 3.5Mbps, BPSK)	WLAN	8.07	±9.0
10118	CAD	IEEE 802.11n (HT Mixed, 81Mbps, 16-QAM)	WLAN	8.59	±9.0
10119	CAD	IEEE 802.11n (HT Mixed, 135Mbps, 64-QAM)	WLAN	8.13	±9.0
10140	CAD	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-FDD	6.40	±9.0
10141	CAD	LTE-FDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-FDD	6.63	±9.0
10142	CAD	LTE-FDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.0
10143	CAD	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-FDD	6.35	±9.0
10144	CAG	LTE-FDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-FDD	6.65	±9.0
10145	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)	LTE-FDD	5.75	±9.0
10146	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)	LTE-FDD	6.41	±9.0
10147	CAG	LTE-FDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM)	LTE-FDD	6.72	±9.0
10149	CAL	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)	LTE-TDD	6.42	±9.0
10150	CAL	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)	LTE-TDD	6.60	±9.0
10151	CAL	LTE-TDD (SC-FDMA, 50% RB, 20MHz, QPSK)	LTE-TDD	9.28	±9.0
10152	CAL	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 16-QAM)	LTE-TDD	9.92	±9.0
10153	CAL	LTE-TDD (SC-FDMA, 50% RB, 20MHz, 64-QAM)	LTE-TDD	10.05	±9.0
10154	CAF	LTE-FDD (SC-FDMA, 50% RB, 10MHz, QPSK)	LTE-FDD	5.75	±9.0
10155	CAF	LTE-FDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)	LTE-FDD	6.43	±9.0
10156	CAF	LTE-FDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-FDD	5.79	±9.0
10157	CAF	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-FDD	6.49	±9.0
10158	CAE	LTE-FDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)	LTE-FDD	8.87	±9.0
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-FDD	8.58	±9.0
10160	CAG	LTE-FDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-FDD	5.87	±9.0
10161	CAG	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-FDD	6.43	±9.0
10162	CAG	LTE-FDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-FDD	6.58	±9.0
10166	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)	LTE-FDD	5.68	±9.0
10167	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)	LTE-FDD	6.21	±9.0
10168	CAG	LTE-FDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM)	LTE-FDD	6.79	±9.0
10169	CAG	LTE-FDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-FDD	5.73	±9.0
10170	CAG	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-FDD	6.52	±9.0
10171	CAF	LTE-FDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-FDD	6.49	±9.0
10172	CAF	LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK)	LTE-TDD	9.21	±9.0
10173	CAF	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 16-QAM)	LTE-TDD	9.48	±9.0
10174	CAF	LTE-TDD (SC-FDMA, 1 RB, 20MHz, 64-QAM)	LTE-TDD	10.25	±9.0
10175	CAF	LTE-FDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-FDD	5.72	±9.0
10176	CAF	LTE-FDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)	LTE-FDD	6.52	±9.0
10177	CAE	LTE-FDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-FDD	6.73	±9.0
10178	CAE	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-FDD	6.62	±9.0
10179	AAE	LTE-FDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)	LTE-FDD	6.50	±9.0
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-FDD	6.50	±9.0
10181	CAG	LTE-FDD (SC-FDMA, 1 RB, 15MHz, QPSK)	LTE-FDD	5.72	±9.0
10182	CAG	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 16-QAM)	LTE-FDD	6.52	±9.0
10183	CAG	LTE-FDD (SC-FDMA, 1 RB, 15MHz, 64-QAM)	LTE-FDD	6.50	±9.0
10184	CAG	LTE-FDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-FDD	5.73	±9.0
10185	CAI	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-FDD	6.51	±9.0
10186	CAG	LTE-FDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-FDD	6.50	±9.0
10187	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)	LTE-FDD	5.73	±9.0
10188	CAG	LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)	LTE-FDD	6.57	±9.0
10189	CAL	LTE-FDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)	LTE-FDD	6.50	±9.0
10190	CAL	IEEE 802.11n (HT Greenfield, 6.5Mbps, BPSK)	WLAN	8.09	±9.0
10194	AND	IEEE 802.11n (HT Greenfield, 56Mbps, 16-QAM)	WLAN	8.12	±9.0
10195	CAL	IEEE 802.11n (HT Greenfield, 65Mbps, 64-QAM)	WLAN	8.21	±9.0
10199	CAL	IEEE 802.11n (HT Mixed, 3.5Mbps, BPSK)	WLAN	8.10	±9.0
10197	AAE	IEEE 802.11n (HT Mixed, 39Mbps, 16-QAM)	WLAN	8.13	±9.0
10198	CAF	IEEE 802.11n (HT Mixed, 85Mbps, 64-QAM)	WLAN	8.27	±9.0
10219	CAF	IEEE 802.11n (HT Mixed, 7.2Mbps, BPSK)	WLAN	8.08	±9.0
10220	AAF	IEEE 802.11n (HT Mixed, 43.3Mbps, 16-QAM)	WLAN	8.13	±9.0
10221	CAD	IEEE 802.11n (HT Mixed, 72.2Mbps, 64-QAM)	WLAN	8.27	±9.0
10222	CAD	IEEE 802.11n (HT Mixed, 15Mbps, BPSK)	WLAN	8.06	±9.0
10223	CAD	IEEE 802.11n (HT Mixed, 89Mbps, 16-QAM)	WLAN	8.48	±9.0
10224	CAD	IEEE 802.11n (HT Mixed, 159Mbps, 64-QAM)	WLAN	8.06	±9.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Limit <sup>1</sup> k-2
10225	CAD	UMTS-FDD (HS-PA)	WCDMA	5.97	+9.9
10226	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 16-QAM)	LTE-TDD	5.49	+9.9
10227	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, 64-QAM)	LTE-TDD	10.29	+9.9
10228	CAD	LTE-TDD (SC-FDMA, 1 RB, 1.4MHz, QPSK)	LTE-TDD	5.22	+9.9
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 16-QAM)	LTE-TDD	5.48	+9.9
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, 64-QAM)	LTE-TDD	10.25	+9.9
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3MHz, QPSK)	LTE-TDD	5.13	+9.9
10232	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 16-QAM)	LTE-TDD	9.49	+9.9
10233	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, 64-QAM)	LTE-TDD	10.25	+9.9
10234	CAD	LTE-TDD (SC-FDMA, 1 RB, 5MHz, QPSK)	LTE-TDD	9.21	+9.9
10235	CAD	LTE-TDD (SC-FDMA, 1 RB, 10MHz, 16-QAM)	LTE-TDD	9.40	+9.9
10236	CAD	LTE-TDD (SC-FDMA, 1 RB, 10MHz, 64-QAM)	LTE-TDD	10.25	+9.9
10237	CAD	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK)	LTE-TDD	9.21	+9.9
10238	CAB	LTE-TDD (SC-FDMA, 1 RB, 16MHz, 16-QAM)	LTE-TDD	9.40	+9.9
10239	CAB	LTE-TDD (SC-FDMA, 1 RB, 16MHz, 64-QAM)	LTE-TDD	10.25	+9.9
10240	CAD	LTE-TDD (SC-FDMA, 1 RB, 16MHz, QPSK)	LTE-TDD	9.21	+9.9
10241	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 16-QAM)	LTE-TDD	9.82	+5.6
10242	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, 64-QAM)	LTE-TDD	9.88	+5.6
10243	CAD	LTE-TDD (SC-FDMA, 50% RB, 1.4MHz, QPSK)	LTE-TDD	9.48	+5.6
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-TDD	10.08	+5.6
10245	CAG	LTE-TDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-TDD	10.08	+5.6
10246	CAG	LTE-TDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-TDD	9.30	+5.6
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 16-QAM)	LTE-TDD	9.91	+5.6
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, 64-QAM)	LTE-TDD	10.09	+5.6
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5MHz, QPSK)	LTE-TDD	9.29	+5.6
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10MHz, 16-QAM)	LTE-TDD	9.81	+5.6
10251	CAB	LTE-TDD (SC-FDMA, 50% RB, 10MHz, 64-QAM)	LTE-TDD	10.17	+5.6
10252	CAB	LTE-TDD (SC-FDMA, 50% RB, 10MHz, QPSK)	LTE-TDD	9.24	+5.6
10253	CAB	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 16-QAM)	LTE-TDD	9.90	+5.6
10254	CAB	LTE-TDD (SC-FDMA, 50% RB, 15MHz, 64-QAM)	LTE-TDD	10.14	+5.6
10255	CAB	LTE-TDD (SC-FDMA, 50% RB, 15MHz, QPSK)	LTE-TDD	9.20	+5.6
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 16-QAM)	LTE-TDD	9.93	+9.9
10257	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, 64-QAM)	LTE-TDD	10.29	+9.9
10258	CAD	LTE-TDD (SC-FDMA, 100% RB, 1.4MHz, QPSK)	LTE-TDD	8.31	+9.9
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 16-QAM)	LTE-TDD	8.89	+9.9
10260	CAG	LTE-TDD (SC-FDMA, 100% RB, 3MHz, 64-QAM)	LTE-TDD	9.97	+9.9
10261	CAG	LTE-TDD (SC-FDMA, 100% RB, 3MHz, QPSK)	LTE-TDD	8.24	+9.9
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 16-QAM)	LTE-TDD	9.83	+9.9
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, 64-QAM)	LTE-TDD	10.16	+9.9
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5MHz, QPSK)	LTE-TDD	8.22	+9.9
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 16-QAM)	LTE-TDD	9.92	+9.9
10266	CAB	LTE-TDD (SC-FDMA, 100% RB, 10MHz, 64-QAM)	LTE-TDD	10.07	+9.9
10267	CAB	LTE-TDD (SC-FDMA, 100% RB, 10MHz, QPSK)	LTE-TDD	9.80	+9.9
10268	CAB	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 16-QAM)	LTE-TDD	10.06	+9.9
10269	CAB	LTE-TDD (SC-FDMA, 100% RB, 15MHz, 64-QAM)	LTE-TDD	10.19	+9.9
10270	CAB	LTE-TDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-TDD	9.58	+9.9
10274	CAB	UMTS-FDD (HS-LPA, Subclass 5, 3GPP Rel5 10)	WCDMA	4.87	+9.9
10276	CAD	UMTS-FDD (HS-LPA, Subclass 5, 3GPP Rel5 4)	WCDMA	3.96	+9.9
10277	CAD	PHS (GFSK)	PHS	11.81	+9.9
10278	CAD	PHS (GFSK, BW 884MHz, Roll-off 0.5)	PHS	11.81	+9.9
10279	CAG	PHS (GFSK, BW 884MHz, Roll-off 0.38)	PHS	12.15	+9.9
10290	CAG	CDMA2000, RC1, SC95, Full Rate	CDMA2000	3.91	+9.9
10291	CAG	CDMA2000, RC8, SC95, Full Rate	CDMA2000	3.40	+9.9
10292	CAG	CDMA2000, RC8, SC32, Full Rate	CDMA2000	3.39	+9.9
10293	CAG	CDMA2000, RC1, SC3, Full Rate	CDMA2000	3.53	+9.9
10290	CAG	CDMA2000, RC1, SC3, 1/8th Rate 25.6k	CDMA2000	12.49	+9.9
10297	CAB	LTE-FDD (SC-FDMA, 50% RB, 20MHz, QPSK)	LTE-FDD	5.91	+9.9
10298	CAB	LTE-FDD (SC-FDMA, 50% RB, 3MHz, QPSK)	LTE-FDD	5.72	+9.9
10299	CAB	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 16-QAM)	LTE-FDD	6.39	+9.9
10300	CAD	LTE-FDD (SC-FDMA, 50% RB, 3MHz, 64-QAM)	LTE-FDD	6.80	+9.9
10301	CAC	IEEE 802.16a WIMAX (28-18, 5ms, 10MHz, QPSK, PUSC)	WIMAX	12.09	+5.6
10302	CAR	IEEE 802.16a WIMAX (28-18, 5ms, 10MHz, QPSK, PUSC, 3GTL)	WIMAX	12.57	+5.6
10303	CAR	IEEE 802.16a WIMAX (31-15, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	12.52	+5.6
10304	CAA	IEEE 802.16a WIMAX (28-18, 5ms, 10MHz, 64QAM, PUSC)	WIMAX	11.86	+5.6
10305	CAA	IEEE 802.16a WIMAX (31-15, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	15.24	+5.6
10306	CAA	IEEE 802.16a WIMAX (28-18, 10ms, 10MHz, 64QAM, PUSC)	WIMAX	14.67	+5.6

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10307	AAE	IEEE 802.16e WIMAX (2S 18, 10ms, 10MHz, QPSK, PUSC)	WIMAX	14.49	+9.6
10308	AAE	IEEE 802.16e WIMAX (2S 18, 10ms, 10MHz, 16QAM, PUSC)	WIMAX	14.46	+9.6
10309	AAE	IEEE 802.16e WIMAX (2S 18, 10ms, 10MHz, 16QAM, AMC 2x3)	WIMAX	14.58	+9.6
10310	AAE	IEEE 802.16e WIMAX (2S 18, 10ms, 10MHz, QPSK, AMC 2x3)	WIMAX	14.57	+9.6
10311	AAE	LTE-FDD (SC-FDMA, 100% RB, 15MHz, QPSK)	LTE-FDD	8.05	+9.6
10313	AAE	IDEN 1.3	IDEN	19.51	+9.6
10314	AAE	IDEN 1.6	IDEN	13.48	+9.6
10315	AAE	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 80ps dc)	WLAN	1.71	+9.6
10316	AAE	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6Mbps, 90ps dc)	WLAN	8.38	+9.6
10317	AAA	IEEE 802.11g WiFi 5 GHz (OFDM, 8Mbps, 80ps dc)	WLAN	8.98	+9.6
1035P	AAA	Pulse Waveform (200 Hz, 10%)	Generic	10.00	+9.6
1035D	AAA	Pulse Waveform (200 Hz, 20%)	Generic	8.88	+9.6
1035E	AAA	Pulse Waveform (200 Hz, 40%)	Generic	8.88	+9.6
10355	AAA	Pulse Waveform (200 Hz, 60%)	Generic	2.22	+9.6
10358	AAA	Pulse Waveform (200 Hz, 80%)	Generic	0.87	+9.6
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	+9.6
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	+9.6
10389	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	+9.6
10389	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	+9.6
10400	AAE	IEEE 802.11ac WiFi (20MHz, 64-QAM, 90ps dc)	WLAN	8.87	+9.6
10401	AAE	IEEE 802.11ac WiFi (40MHz, 64-QAM, 90ps dc)	WLAN	8.60	+9.6
10402	AAE	IEEE 802.11ac WiFi (80MHz, 64-QAM, 90ps dc)	WLAN	8.93	+9.6
10403	AAE	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	+9.6
10404	AAE	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	+9.6
10406	AAE	CDMA2000, RCS, SCRS, RCHD, Full Rate	CDMA2000	5.22	+9.6
10410	AAA	LTE-TDD (SC-FDMA, 1 RB, 10MHz, QPSK, UL Sub=2,3,4,7,8)	LTE-TDD	7.82	+9.6
10414	AAA	WLAN GDFE, 64-QAM, 40 MHz	Generic	8.54	+9.6
10415	AAA	IEEE 802.11n WiFi 2.4 GHz (DSSS, 1 Mbps, 90ps dc)	WLAN	1.54	+9.6
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 80ps dc)	WLAN	8.23	+9.6
10417	AAA	IEEE 802.11n WiFi 5 GHz (OFDM, 6 Mbps, 90ps dc)	WLAN	8.23	+9.6
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 8 Mbps, 80ps Long)	WLAN	8.14	+9.6
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 8 Mbps, 80ps Short)	WLAN	8.19	+9.6
10422	AAE	IEEE 802.11n (HT Greenfield, 7.2Mbps, 6PSK)	WLAN	8.32	+9.6
10428	AAE	IEEE 802.11n (HT Greenfield, 4.8Mbps, 16-QAM)	WLAN	8.47	+9.6
10424	AAE	IEEE 802.11n (HT Greenfield, 7.2Mbps, 64-QAM)	WLAN	8.40	+9.6
10425	AAE	IEEE 802.11n (HT Greenfield, 15Mbps, 6PSK)	WLAN	8.41	+9.6
10426	AAE	IEEE 802.11n (HT Greenfield, 90Mbps, 16-QAM)	WLAN	8.45	+9.6
10427	AAE	IEEE 802.11n (HT Greenfield, 150Mbps, 64-QAM)	WLAN	8.41	+9.6
10430	AAE	LTE-FDD (OFDMA, 5 MHz, E-TM3.1)	LTE-FDD	0.20	+9.6
10431	AAE	LTE-FDD (OFDMA, 10 MHz, E-TM3.1)	LTE-FDD	0.30	+9.6
10432	AAE	LTE-FDD (OFDMA, 15 MHz, E-TM3.1)	LTE-FDD	0.34	+9.6
10433	AAE	LTE-FDD (OFDMA, 20 MHz, E-TM3.1)	LTE-FDD	0.34	+9.6
10434	AAE	W-CDMA (3G Test Model 1, 64 DPCCH)	WCDMA	0.00	+9.6
10435	AAE	LTE-TDD (SC-FDMA, 1 RB, 20MHz, QPSK, UL Sub)	LTE-TDD	7.82	+9.6
10447	AAA	LTE-FDD (OFDMA, 5 MHz, E-TM3.1, Clipping 44%)	LTE-FDD	7.95	+9.6
10448	AAA	LTE-FDD (OFDMA, 10 MHz, E-TM3.1, Clipping 44%)	LTE-FDD	7.93	+9.6
10449	AAA	LTE-FDD (OFDMA, 15 MHz, E-TM3.1, Clipping 44%)	LTE-FDD	7.51	+9.6
10450	AAA	LTE-FDD (OFDMA, 20 MHz, E-TM3.1, Clipping 44%)	LTE-FDD	7.48	+9.6
10451	AAA	W-CDMA (3G Test Model 1, 64 DPCCH, Clipping 44%)	WCDMA	7.59	+9.6
10453	AAE	Validation (Square, 10ms, 1ms)	Test	10.00	+9.6
10455	AAE	IEEE 802.11ac WiFi (160MHz, 64-QAM, 90ps dc)	WLAN	8.83	+9.6
10457	AAE	UMTS FDD (DC-HSDPA)	WCDMA	8.82	+9.6
10459	AAE	CDMA2000 (1xEV-DO, Rev. 3, 2 carriers)	CDMA2000	8.55	+9.6
10459	AAE	CDMA2000 (1xEV-DO, Rev. 3, 3 carriers)	CDMA2000	8.25	+9.6
10483	AAE	UMTS FDD (WCDMA, AMR)	WCDMA	2.38	+9.6
10481	AAE	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	+9.6
10482	AAE	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	+9.6
10483	AAE	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.58	+9.6
10484	AAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	+9.6
10485	AAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	+9.6
10486	AAE	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.67	+9.6
10487	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	+9.6
10488	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	+9.6
10488	AAE	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.66	+9.6
10470	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	+9.6
10471	AAE	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	+9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>F</sup> k = 2
13472	AAC	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	+5.6
13473	AAA	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	+5.6
13474	AAC	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	+5.6
13475	AAD	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	+5.6
13477	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	+5.6
13478	AAC	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	+5.6
13479	AAC	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13480	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	+5.6
13481	AAA	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	+5.6
13482	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	+5.6
13483	AAA	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	+5.6
13484	AAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.67	+5.6
13485	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.89	+5.6
13486	AAB	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	+5.6
13487	AAC	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	+5.6
13488	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	+5.6
13489	AAC	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	+5.6
13490	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13491	AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13492	AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	+5.6
13493	AAB	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.66	+5.6
13494	AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13495	AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	+5.6
13496	AAB	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	+5.6
13498	AAC	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.80	+5.6
13499	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.87	+5.6
13500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	+5.6
13501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.74	+5.6
13502	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.72	+5.6
13503	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	+5.6
13504	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.61	+5.6
13505	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13506	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.35	+5.6
13507	AAC	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13508	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13509	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.35	+5.6
13510	AAC	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13511	AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13512	AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.35	+5.6
13513	AAC	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13514	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	+5.6
13515	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.35	+5.6
13516	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13517	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13518	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13519	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13520	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13521	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13522	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13523	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13524	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13525	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13526	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13527	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13528	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13529	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13530	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13531	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13532	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13533	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13534	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13535	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13536	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13537	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13538	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13539	AAC	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6
13540	AAA	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.64	+5.6

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UID	Rev	Communication System Name	Group	PAIR (dB)	Unc <sup>2</sup> k = 2
10541	AAA	IEEE 802.11ac WiFi (40MHz, MCS7, 80ps dc)	WLAN	8.46	±8.0
10542	AAA	IEEE 802.11ac WiFi (40MHz, MCS8, 80ps dc)	WLAN	8.60	±8.0
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 80ps dc)	WLAN	8.60	±8.0
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 80ps dc)	WLAN	8.47	±8.0
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 80ps dc)	WLAN	8.35	±8.0
10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 80ps dc)	WLAN	8.35	±8.0
10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 80ps dc)	WLAN	8.49	±8.0
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 80ps dc)	WLAN	8.37	±8.0
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 80ps dc)	WLAN	8.38	±8.0
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 80ps dc)	WLAN	8.50	±8.0
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 80ps dc)	WLAN	8.42	±8.0
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 80ps dc)	WLAN	8.45	±8.0
10554	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90ps dc)	WLAN	8.48	±8.0
10555	AAC	IEEE 802.11ac WiFi (160MHz, MCS1, 90ps dc)	WLAN	8.47	±8.0
10556	AAC	IEEE 802.11ac WiFi (160MHz, MCS2, 90ps dc)	WLAN	8.50	±8.0
10557	AAC	IEEE 802.11ac WiFi (160MHz, MCS3, 90ps dc)	WLAN	8.52	±8.0
10558	AAC	IEEE 802.11ac WiFi (160MHz, MCS4, 90ps dc)	WLAN	8.61	±8.0
10559	AAC	IEEE 802.11ac WiFi (160MHz, MCS6, 90ps dc)	WLAN	8.70	±8.0
10561	AAC	IEEE 802.11ac WiFi (160MHz, MCS7, 90ps dc)	WLAN	8.66	±8.0
10562	AAC	IEEE 802.11ac WiFi (160MHz, MCS8, 90ps dc)	WLAN	8.69	±8.0
10563	AAC	IEEE 802.11ac WiFi (160MHz, MCS9, 90ps dc)	WLAN	8.77	±8.0
10564	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 9Mbps, 90ps dc)	WLAN	8.25	±8.0
10565	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 12Mbps, 90ps dc)	WLAN	8.45	±8.0
10566	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 18Mbps, 90ps dc)	WLAN	8.13	±8.0
10567	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 24Mbps, 90ps dc)	WLAN	8.00	±8.0
10568	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 36Mbps, 90ps dc)	WLAN	8.37	±8.0
10568	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 48Mbps, 90ps dc)	WLAN	8.10	±8.0
10570	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 54Mbps, 90ps dc)	WLAN	8.30	±8.0
10571	AAC	IEEE 802.11b WiFi 2.4GHz (DSSS, 1Mbps, 90ps dc)	WLAN	1.99	±8.0
10572	AAC	IEEE 802.11b WiFi 2.4GHz (DSSS, 2Mbps, 90ps dc)	WLAN	1.88	±8.0
10573	AAC	IEEE 802.11b WiFi 2.4GHz (DSSS, 5.5Mbps, 90ps dc)	WLAN	1.88	±8.0
10574	AAC	IEEE 802.11b WiFi 2.4GHz (DSSS, 11Mbps, 90ps dc)	WLAN	1.88	±8.0
10575	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 8Mbps, 80ps dc)	WLAN	8.59	±8.0
10576	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 9Mbps, 80ps dc)	WLAN	8.60	±8.0
10577	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 12Mbps, 80ps dc)	WLAN	8.70	±8.0
10578	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 18Mbps, 80ps dc)	WLAN	8.48	±8.0
10579	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 24Mbps, 80ps dc)	WLAN	8.36	±8.0
10580	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 36Mbps, 80ps dc)	WLAN	8.76	±8.0
10581	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 48Mbps, 80ps dc)	WLAN	8.35	±8.0
10582	AAC	IEEE 802.11g WiFi 2.4GHz (DSSS-OFDM, 54Mbps, 80ps dc)	WLAN	8.67	±8.0
10583	AAC	IEEE 802.11ah WiFi 5GHz (OFDM, 9Mbps, 80ps dc)	WLAN	8.69	±8.0
10584	AAC	IEEE 802.11ah WiFi 5GHz (OFDM, 9Mbps, 80ps dc)	WLAN	8.00	±8.0
10585	AAC	IEEE 802.11ah WiFi 5GHz (OFDM, 12Mbps, 80ps dc)	WLAN	8.70	±8.0
10586	AAC	IEEE 802.11ah WiFi 5GHz (OFDM, 18Mbps, 80ps dc)	WLAN	8.49	±8.0
10587	AAA	IEEE 802.11ah WiFi 5GHz (OFDM, 24Mbps, 80ps dc)	WLAN	8.35	±8.0
10588	AAA	IEEE 802.11ah WiFi 5GHz (OFDM, 36Mbps, 80ps dc)	WLAN	8.76	±8.0
10589	AAA	IEEE 802.11ah WiFi 5GHz (OFDM, 48Mbps, 80ps dc)	WLAN	8.35	±8.0
10590	AAA	IEEE 802.11ah WiFi 5GHz (OFDM, 54Mbps, 80ps dc)	WLAN	8.67	±8.0
10591	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90ps dc)	WLAN	8.53	±8.0
10592	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90ps dc)	WLAN	8.73	±8.0
10593	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90ps dc)	WLAN	8.64	±8.0
10594	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90ps dc)	WLAN	8.74	±8.0
10595	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90ps dc)	WLAN	8.74	±8.0
10596	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90ps dc)	WLAN	8.71	±8.0
10597	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90ps dc)	WLAN	8.72	±8.0
10598	AAA	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90ps dc)	WLAN	8.50	±8.0
10599	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90ps dc)	WLAN	8.78	±8.0
10600	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90ps dc)	WLAN	8.68	±8.0
10601	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90ps dc)	WLAN	8.62	±8.0
10602	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90ps dc)	WLAN	8.94	±8.0
10603	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90ps dc)	WLAN	9.03	±8.0
10604	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90ps dc)	WLAN	8.75	±8.0
10605	AAA	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90ps dc)	WLAN	8.97	±8.0
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90ps dc)	WLAN	8.82	±8.0
10607	AAC	IEEE 802.11ae VHT (28MHz, MCS0, 90ps dc)	WLAN	8.64	±8.0
10608	AAC	IEEE 802.11ae VHT (28MHz, MCS1, 90ps dc)	WLAN	8.77	±8.0



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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>F</sup> k = 2
10600	AAC	IEEE 802.11ac WiFi (20 MHz, MCS2, 80ps dc)	WLAN	8.57	+9.6
10610	AAC	IEEE 802.11ac WiFi (20 MHz, MCS3, 80ps dc)	WLAN	8.78	+9.6
10611	AAC	IEEE 802.11ac WiFi (20 MHz, MCS4, 80ps dc)	WLAN	8.70	+9.6
10612	AAC	IEEE 802.11ac WiFi (20 MHz, MCS5, 80ps dc)	WLAN	8.77	+9.6
10613	AAC	IEEE 802.11ac WiFi (20 MHz, MCS6, 80ps dc)	WLAN	8.84	+9.6
10614	AAC	IEEE 802.11ac WiFi (20 MHz, MCS7, 80ps dc)	WLAN	8.59	+9.6
10615	AAC	IEEE 802.11ac WiFi (20 MHz, MCS8, 80ps dc)	WLAN	8.82	+9.6
10618	AAC	IEEE 802.11ac WiFi (40 MHz, MCS0, 80ps dc)	WLAN	8.82	+8.8
10617	AAC	IEEE 802.11ac WiFi (40 MHz, MCS1, 80ps dc)	WLAN	8.81	+8.8
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS2, 80ps dc)	WLAN	8.58	+8.8
10619	AAC	IEEE 802.11ac WiFi (40 MHz, MCS3, 80ps dc)	WLAN	8.66	+8.8
10620	AAC	IEEE 802.11ac WiFi (40 MHz, MCS4, 80ps dc)	WLAN	8.87	+8.8
10621	AAC	IEEE 802.11ac WiFi (40 MHz, MCS5, 80ps dc)	WLAN	8.77	+8.8
10622	AAC	IEEE 802.11ac WiFi (40 MHz, MCS6, 80ps dc)	WLAN	8.66	+8.8
10623	AAC	IEEE 802.11ac WiFi (40 MHz, MCS7, 80ps dc)	WLAN	8.82	+8.8
10624	AAC	IEEE 802.11ac WiFi (40 MHz, MCS8, 80ps dc)	WLAN	8.96	+8.8
10625	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 80ps dc)	WLAN	8.96	+8.8
10626	AAC	IEEE 802.11ac WiFi (80 MHz, MCS0, 80ps dc)	WLAN	8.88	+8.8
10627	AAC	IEEE 802.11ac WiFi (80 MHz, MCS1, 80ps dc)	WLAN	8.88	+8.8
10628	AAC	IEEE 802.11ac WiFi (80 MHz, MCS2, 80ps dc)	WLAN	8.71	+8.8
10629	AAC	IEEE 802.11ac WiFi (80 MHz, MCS3, 80ps dc)	WLAN	8.85	+8.8
10630	AAC	IEEE 802.11ac WiFi (80 MHz, MCS4, 80ps dc)	WLAN	8.72	+8.8
10631	AAC	IEEE 802.11ac WiFi (80 MHz, MCS5, 80ps dc)	WLAN	8.81	+8.8
10632	AAC	IEEE 802.11ac WiFi (80 MHz, MCS6, 80ps dc)	WLAN	8.74	+8.8
10633	AAC	IEEE 802.11ac WiFi (80 MHz, MCS7, 80ps dc)	WLAN	8.83	+8.8
10634	AAC	IEEE 802.11ac WiFi (80 MHz, MCS8, 80ps dc)	WLAN	8.80	+8.8
10635	AAC	IEEE 802.11ac WiFi (80 MHz, MCS9, 80ps dc)	WLAN	8.81	+8.8
10636	AAC	IEEE 802.11ac WiFi (160 MHz, MCS0, 80ps dc)	WLAN	8.93	+8.8
10637	AAC	IEEE 802.11ac WiFi (160 MHz, MCS1, 80ps dc)	WLAN	8.79	+8.8
10638	AAC	IEEE 802.11ac WiFi (160 MHz, MCS2, 80ps dc)	WLAN	8.80	+8.8
10639	AAC	IEEE 802.11ac WiFi (160 MHz, MCS3, 80ps dc)	WLAN	8.85	+8.8
10640	AAC	IEEE 802.11ac WiFi (160 MHz, MCS4, 80ps dc)	WLAN	8.89	+8.8
10641	AAC	IEEE 802.11ac WiFi (160 MHz, MCS5, 80ps dc)	WLAN	8.66	+8.8
10642	AAC	IEEE 802.11ac WiFi (160 MHz, MCS6, 80ps dc)	WLAN	8.66	+8.8
10643	AAC	IEEE 802.11ac WiFi (160 MHz, MCS7, 80ps dc)	WLAN	8.88	+8.8
10644	AAC	IEEE 802.11ac WiFi (160 MHz, MCS8, 80ps dc)	WLAN	8.66	+8.8
10645	AAC	IEEE 802.11ac WiFi (160 MHz, MCS9, 80ps dc)	WLAN	8.77	+8.8
10646	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL sub-2,7)	LTE-TDD	11.96	+8.6
10647	AAC	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL sub-2,7)	LTE-TDD	11.96	+8.6
10648	AAC	CDMA2000 (1x Advanced)	CDMA2000	5.45	+8.6
10650	AAC	LTE-TDD (OFDMA, 6 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	+8.6
10650	AAC	LTE-TDD (OFDMA, 6 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	+8.6
10654	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	+8.6
10655	AAC	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	+8.6
10658	AAC	Pulse Waveform (200 Hz, 10%)	Test	10.00	+8.6
10659	AAC	Pulse Waveform (200 Hz, 20%)	Test	3.98	+8.6
10660	AAC	Pulse Waveform (200 Hz, 40%)	Test	3.96	+8.6
10661	AAC	Pulse Waveform (200 Hz, 60%)	Test	2.22	+8.6
10662	AAC	Pulse Waveform (200 Hz, 80%)	Test	3.97	+8.6
10670	AAC	Bluetooth Low Energy	Bluetooth	2.18	+8.6
10671	AAC	IEEE 802.11ax (20 MHz, MCS0, 80ps dc)	WLAN	8.39	+8.6
10672	AAC	IEEE 802.11ax (20 MHz, MCS1, 80ps dc)	WLAN	8.57	+8.6
10673	AAC	IEEE 802.11ax (20 MHz, MCS2, 80ps dc)	WLAN	8.78	+8.6
10674	AAC	IEEE 802.11ax (20 MHz, MCS3, 80ps dc)	WLAN	8.74	+8.6
10675	AAC	IEEE 802.11ax (20 MHz, MCS4, 80ps dc)	WLAN	8.90	+8.6
10676	AAC	IEEE 802.11ax (20 MHz, MCS5, 80ps dc)	WLAN	8.77	+8.6
10677	AAC	IEEE 802.11ax (20 MHz, MCS6, 80ps dc)	WLAN	8.72	+8.6
10678	AAC	IEEE 802.11ax (20 MHz, MCS7, 80ps dc)	WLAN	8.78	+8.6
10679	AAC	IEEE 802.11ax (20 MHz, MCS8, 80ps dc)	WLAN	8.88	+8.6
10680	AAC	IEEE 802.11ax (20 MHz, MCS9, 80ps dc)	WLAN	8.80	+8.6
10681	AAC	IEEE 802.11ax (20 MHz, MCS10, 80ps dc)	WLAN	8.62	+8.6
10682	AAC	IEEE 802.11ax (20 MHz, MCS11, 80ps dc)	WLAN	8.83	+8.6
10683	AAC	IEEE 802.11ax (20 MHz, MCS0, 90ps dc)	WLAN	8.42	+8.6
10684	AAC	IEEE 802.11ax (20 MHz, MCS1, 90ps dc)	WLAN	8.28	+8.6
10685	AAC	IEEE 802.11ax (20 MHz, MCS2, 90ps dc)	WLAN	8.33	+8.6
10686	AAC	IEEE 802.11ax (20 MHz, MCS3, 90ps dc)	WLAN	8.29	+8.6

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UID	Rev	Communication System Name	Group	PAR [dB]	Unc <sup>0</sup> k = 2
10887	AAF	IEEE 802.11ax (20 MHz, MCS4, 99ps dc)	WLAN	8.45	+9.9
10888	AAF	IEEE 802.11ax (20 MHz, MCS5, 99ps dc)	WLAN	8.29	+9.9
10889	AAF	IEEE 802.11ax (20 MHz, MCS6, 99ps dc)	WLAN	8.55	+9.9
10890	AAF	IEEE 802.11ax (20 MHz, MCS7, 99ps dc)	WLAN	8.29	+9.9
10891	AAF	IEEE 802.11ax (20 MHz, MCS8, 99ps dc)	WLAN	8.25	+9.9
10892	AAA	IEEE 802.11ax (20 MHz, MCS9, 99ps dc)	WLAN	8.29	+9.9
10893	AAA	IEEE 802.11ax (20 MHz, MCS10, 99ps dc)	WLAN	8.25	+9.9
10894	AAA	IEEE 802.11ax (20 MHz, MCS11, 99ps dc)	WLAN	8.67	+9.9
10895	AAA	IEEE 802.11ax (40 MHz, MCS0, 99ps dc)	WLAN	8.78	+9.9
10896	AAA	IEEE 802.11ax (40 MHz, MCS1, 99ps dc)	WLAN	8.91	+9.9
10897	AAA	IEEE 802.11ax (40 MHz, MCS2, 99ps dc)	WLAN	8.61	+9.9
10898	AAA	IEEE 802.11ax (40 MHz, MCS3, 99ps dc)	WLAN	8.89	+9.9
10899	AAA	IEEE 802.11ax (40 MHz, MCS4, 99ps dc)	WLAN	8.82	+9.9
10700	AAA	IEEE 802.11ax (40 MHz, MCS5, 99ps dc)	WLAN	9.75	+9.9
10701	AAA	IEEE 802.11ax (40 MHz, MCS6, 99ps dc)	WLAN	8.86	+9.9
10702	AAA	IEEE 802.11ax (40 MHz, MCS7, 99ps dc)	WLAN	8.70	+9.9
10703	AAA	IEEE 802.11ax (40 MHz, MCS8, 99ps dc)	WLAN	8.82	+9.9
10704	AAA	IEEE 802.11ax (40 MHz, MCS9, 99ps dc)	WLAN	8.99	+9.9
10705	AAA	IEEE 802.11ax (40 MHz, MCS10, 99ps dc)	WLAN	8.80	+9.9
10706	AAC	IEEE 802.11ax (40 MHz, MCS11, 99ps dc)	WLAN	8.86	+9.9
10707	AAC	IEEE 802.11ax (40 MHz, MCS0, 99ps dc)	WLAN	8.30	+9.9
10708	AAC	IEEE 802.11ax (40 MHz, MCS1, 99ps dc)	WLAN	8.55	+9.9
10709	AAC	IEEE 802.11ax (40 MHz, MCS2, 99ps dc)	WLAN	8.33	+9.9
10710	AAC	IEEE 802.11ax (40 MHz, MCS3, 99ps dc)	WLAN	8.29	+9.9
10711	AAC	IEEE 802.11ax (40 MHz, MCS4, 99ps dc)	WLAN	8.39	+9.9
10712	AAC	IEEE 802.11ax (40 MHz, MCS5, 99ps dc)	WLAN	8.87	+9.9
10713	AAC	IEEE 802.11ax (40 MHz, MCS6, 99ps dc)	WLAN	8.33	+9.9
10714	AAC	IEEE 802.11ax (40 MHz, MCS7, 99ps dc)	WLAN	8.28	+9.9
10715	AAC	IEEE 802.11ax (40 MHz, MCS8, 99ps dc)	WLAN	8.45	+9.9
10716	AAC	IEEE 802.11ax (40 MHz, MCS9, 99ps dc)	WLAN	8.30	+9.9
10717	AAC	IEEE 802.11ax (40 MHz, MCS10, 99ps dc)	WLAN	8.48	+9.9
10718	AAC	IEEE 802.11ax (40 MHz, MCS11, 99ps dc)	WLAN	8.24	+9.9
10719	AAC	IEEE 802.11ax (80 MHz, MCS0, 99ps dc)	WLAN	8.81	+9.9
10720	AAC	IEEE 802.11ax (80 MHz, MCS1, 99ps dc)	WLAN	8.87	+9.9
10721	AAC	IEEE 802.11ax (80 MHz, MCS2, 99ps dc)	WLAN	8.76	+9.9
10722	AAC	IEEE 802.11ax (80 MHz, MCS3, 99ps dc)	WLAN	8.99	+9.9
10723	AAC	IEEE 802.11ax (80 MHz, MCS4, 99ps dc)	WLAN	8.70	+9.9
10724	AAC	IEEE 802.11ax (80 MHz, MCS5, 99ps dc)	WLAN	8.90	+9.9
10725	AAC	IEEE 802.11ax (80 MHz, MCS6, 99ps dc)	WLAN	8.74	+9.9
10726	AAC	IEEE 802.11ax (80 MHz, MCS7, 99ps dc)	WLAN	8.72	+9.9
10727	AAC	IEEE 802.11ax (80 MHz, MCS8, 99ps dc)	WLAN	8.88	+9.9
10728	AAC	IEEE 802.11ax (80 MHz, MCS9, 99ps dc)	WLAN	8.85	+9.9
10729	AAC	IEEE 802.11ax (80 MHz, MCS10, 99ps dc)	WLAN	8.84	+9.9
10730	AAC	IEEE 802.11ax (80 MHz, MCS11, 99ps dc)	WLAN	8.87	+9.9
10731	AAC	IEEE 802.11ax (80 MHz, MCS0, 99ps dc)	WLAN	8.42	+9.9
10732	AAC	IEEE 802.11ax (80 MHz, MCS1, 99ps dc)	WLAN	8.69	+9.9
10733	AAC	IEEE 802.11ax (80 MHz, MCS2, 99ps dc)	WLAN	8.40	+9.9
10734	AAC	IEEE 802.11ax (80 MHz, MCS3, 99ps dc)	WLAN	8.25	+9.9
10735	AAC	IEEE 802.11ax (80 MHz, MCS4, 99ps dc)	WLAN	8.30	+9.9
10736	AAC	IEEE 802.11ax (80 MHz, MCS5, 99ps dc)	WLAN	8.27	+9.9
10737	AAC	IEEE 802.11ax (80 MHz, MCS6, 99ps dc)	WLAN	8.36	+9.9
10738	AAC	IEEE 802.11ax (80 MHz, MCS7, 99ps dc)	WLAN	8.42	+9.9
10739	AAC	IEEE 802.11ax (80 MHz, MCS8, 99ps dc)	WLAN	8.29	+9.9
10740	AAC	IEEE 802.11ax (80 MHz, MCS9, 99ps dc)	WLAN	8.48	+9.9
10741	AAC	IEEE 802.11ax (80 MHz, MCS10, 99ps dc)	WLAN	8.40	+9.9
10742	AAC	IEEE 802.11ax (80 MHz, MCS11, 99ps dc)	WLAN	8.48	+9.9
10743	AAC	IEEE 802.11ax (160 MHz, MCS0, 99ps dc)	WLAN	8.94	+9.9
10744	AAC	IEEE 802.11ax (160 MHz, MCS1, 99ps dc)	WLAN	9.16	+9.9
10745	AAC	IEEE 802.11ax (160 MHz, MCS2, 99ps dc)	WLAN	8.95	+9.9
10746	AAC	IEEE 802.11ax (160 MHz, MCS3, 99ps dc)	WLAN	9.11	+9.9
10747	AAC	IEEE 802.11ax (160 MHz, MCS4, 99ps dc)	WLAN	9.04	+9.9
10748	AAC	IEEE 802.11ax (160 MHz, MCS5, 99ps dc)	WLAN	9.83	+9.9
10749	AAC	IEEE 802.11ax (160 MHz, MCS6, 99ps dc)	WLAN	9.93	+9.9
10750	AAC	IEEE 802.11ax (160 MHz, MCS7, 99ps dc)	WLAN	9.79	+9.9
10751	AAC	IEEE 802.11ax (160 MHz, MCS8, 99ps dc)	WLAN	9.92	+9.9
10752	AAC	IEEE 802.11ax (160 MHz, MCS9, 99ps dc)	WLAN	9.91	+9.9

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>1</sup> k = 2
10753	AAC	IEEE 802.11ax (180MHz, MCS10, 99pc dc)	WLAN	8.00	±9.0
10754	AAC	IEEE 802.11ax (180MHz, MCS11, 99pc dc)	WLAN	8.04	±9.0
10755	AAC	IEEE 802.11ax (180MHz, MCS11, 99pc dc)	WLAN	8.04	±9.0
10756	AAC	IEEE 802.11ax (180MHz, MCS11, 99pc dc)	WLAN	8.77	±9.0
10757	AAC	IEEE 802.11ax (180MHz, MCS3, 99pc dc)	WLAN	8.77	±9.0
10758	AAC	IEEE 802.11ax (180MHz, MCS3, 99pc dc)	WLAN	8.69	±9.0
10759	AAC	IEEE 802.11ax (180MHz, MCS4, 99pc dc)	WLAN	8.58	±9.0
10760	AAC	IEEE 802.11ax (180MHz, MCS5, 99pc dc)	WLAN	8.48	±9.0
10761	AAC	IEEE 802.11ax (180MHz, MCS6, 99pc dc)	WLAN	8.68	±9.0
10762	AAC	IEEE 802.11ax (180MHz, MCS7, 99pc dc)	WLAN	8.48	±9.0
10763	AAC	IEEE 802.11ax (180MHz, MCS8, 99pc dc)	WLAN	8.50	±9.0
10764	AAC	IEEE 802.11ax (180MHz, MCS9, 99pc dc)	WLAN	8.64	±9.0
10765	AAC	IEEE 802.11ax (180MHz, MCS10, 99pc dc)	WLAN	8.64	±9.0
10766	AAC	IEEE 802.11ax (180MHz, MCS11, 99pc dc)	WLAN	8.67	±9.0
10767	AAC	5G NR (CP-OFDM, 1 RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	±9.0
10768	AAC	5G NR (CP-OFDM, 1 RB, 10MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.0
10769	AAC	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	±9.0
10770	AAC	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.0
10771	AAC	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.0
10772	AAC	5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	±9.0
10773	AAC	5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	±9.0
10774	AAC	5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	±9.0
10775	AAC	5G NR (CP-OFDM, 50% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.0
10776	AAC	5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.0
10777	AAC	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	±9.0
10778	AAC	5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	±9.0
10779	AAC	5G NR (CP-OFDM, 50% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.47	±9.0
10780	AAC	5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.0
10781	AAC	5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.0
10782	AAC	5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	±9.0
10783	AAC	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	±9.0
10784	AAC	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.28	±9.0
10785	AAC	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	±9.0
10786	AAC	5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	±9.0
10787	AAC	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	±9.0
10788	AAC	5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	±9.0
10789	AAC	5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.47	±9.0
10790	AAC	5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	±9.0
10791	AAC	5G NR (CP-OFDM, 1 RB, 6MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.88	±9.0
10792	AAC	5G NR (CP-OFDM, 1 RB, 10MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.92	±9.0
10793	AAC	5G NR (CP-OFDM, 1 RB, 15MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.95	±9.0
10794	AAC	5G NR (CP-OFDM, 1 RB, 20MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.82	±9.0
10795	AAC	5G NR (CP-OFDM, 1 RB, 25MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.84	±9.0
10796	AAC	5G NR (CP-OFDM, 1 RB, 30MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.82	±9.0
10797	AAC	5G NR (CP-OFDM, 1 RB, 40MHz, QPSK, 20 kHz)	5G NR FR1 TDD	8.01	±9.0
10798	AAC	5G NR (CP-OFDM, 1 RB, 50MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.89	±9.0
10799	AAC	5G NR (CP-OFDM, 1 RB, 60MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.93	±9.0
10800	AAC	5G NR (CP-OFDM, 1 RB, 80MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.89	±9.0
10801	AAC	5G NR (CP-OFDM, 1 RB, 90MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.87	±9.0
10802	AAC	5G NR (CP-OFDM, 1 RB, 100MHz, QPSK, 20 kHz)	5G NR FR1 TDD	7.93	±9.0
10803	AAC	5G NR (CP-OFDM, 50% RB, 10MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10804	AAC	5G NR (CP-OFDM, 50% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.0
10805	AAC	5G NR (CP-OFDM, 50% RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10806	AAC	5G NR (CP-OFDM, 50% RB, 30MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10807	AAC	5G NR (CP-OFDM, 50% RB, 40MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10808	AAC	5G NR (CP-OFDM, 50% RB, 50MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.0
10809	AAC	5G NR (CP-OFDM, 100% RB, 5MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.38	±9.0
10810	AAC	5G NR (CP-OFDM, 100% RB, 10MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.0
10811	AAC	5G NR (CP-OFDM, 100% RB, 15MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.38	±9.0
10812	AAC	5G NR (CP-OFDM, 100% RB, 20MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	±9.0
10813	AAC	5G NR (CP-OFDM, 100% RB, 25MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.0
10814	AAC	5G NR (CP-OFDM, 100% RB, 30MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.0
10815	AAC	5G NR (CP-OFDM, 100% RB, 40MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.0
10816	AAC	5G NR (CP-OFDM, 100% RB, 50MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.0
10817	AAC	5G NR (CP-OFDM, 100% RB, 60MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.0
10818	AAC	5G NR (CP-OFDM, 100% RB, 80MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	±9.0
10819	AAC	5G NR (CP-OFDM, 100% RB, 90MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.0

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>E</sup> k = 2
10829	AAD	5G NR (CP-OFDM, 100% RB, 100MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	±9.6
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.73	±9.6
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.74	±9.6
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.70	±9.6
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.75	±9.6
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.70	±9.6
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.66	±9.6
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.66	±9.6
10838	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.70	±9.6
10840	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.57	±9.6
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.71	±9.6
10843	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	±9.6
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	±9.6
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10851	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.31	±9.6
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	±9.6
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	±9.6
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.38	±9.6
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	±9.6
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	±9.6
10863	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.27	±9.6
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	±9.6
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.65	±9.6
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.66	±9.6
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.62	±9.6
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.91	±9.6
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.95	±9.6
10875	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10876	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.30	±9.6
10877	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	±9.6
10878	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10879	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	±9.6
10880	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.39	±9.6
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	±9.6
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.88	±9.6
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	±9.6
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	±9.6
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	±9.6
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	±9.6
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	±9.6
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	±9.6
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	±9.6
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	±9.6
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.18	±9.6
10892	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	±9.6
10897	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	±9.6
10898	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10899	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	±9.6
10900	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10901	AAD	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10902	AAD	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10903	AAD	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	±9.6
10904	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.69	±9.6
10905	AAD	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.69	±9.6
10906	AAD	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.69	±9.6
10907	AAD	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	±9.6
10908	AAD	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.88	±9.6
10909	AAD	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	±9.6
10910	AAD	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	6.82	±9.6

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UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>h</sup> k - 2
10811	AAD	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.8
10812	AAD	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10813	AAD	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10814	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.8
10815	AAD	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	±9.8
10816	AAD	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.8
10817	AAD	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10818	AAD	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.8
10819	AAD	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	±9.8
10820	AAD	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	±9.8
10821	AAD	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10822	AAD	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	±9.8
10823	AAD	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10824	AAD	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10825	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	±9.8
10826	AAD	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10827	AAD	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	±9.8
10828	AAD	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.8
10829	AAD	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.8
10830	AAD	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	±9.8
10831	AAD	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.8
10832	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.8
10833	AAA	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.8
10834	AAA	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.8
10835	AAA	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	±9.8
10836	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.8
10837	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	±9.8
10838	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.80	±9.8
10839	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	±9.8
10840	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.88	±9.8
10841	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	±9.8
10842	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.8
10843	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	±9.8
10844	AAB	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.87	±9.8
10845	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.86	±9.8
10846	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.88	±9.8
10847	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.87	±9.8
10848	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.94	±9.8
10849	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.87	±9.8
10850	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.84	±9.8
10851	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	6.82	±9.8
10852	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	±9.8
10853	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	±9.8
10854	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	±9.8
10855	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	±9.8
10856	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8.14	±9.8
10857	AAC	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8.31	±9.8
10858	AAD	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8.81	±9.8
10859	AAD	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 84-QAM, 30 kHz)	5G NR FR1 FDD	8.33	±9.8
10860	AAD	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 84-QAM, 15 kHz)	5G NR FR1 TDD	8.32	±9.8
10861	AAD	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 84-QAM, 15 kHz)	5G NR FR1 TDD	8.35	±9.8
10862	AAD	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 15 kHz)	5G NR FR1 TDD	8.43	±9.8
10863	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 84-QAM, 15 kHz)	5G NR FR1 TDD	8.55	±9.8
10864	AAB	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	8.29	±9.8
10865	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	8.37	±9.8
10866	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	8.55	±9.8
10867	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	8.48	±9.8
10868	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 84-QAM, 30 kHz)	5G NR FR1 TDD	8.48	±9.8
10872	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.58	±9.8
10873	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.06	±9.8
10874	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	±9.8
10878	AAA	ULLA H07	ULLA	2.23	±9.8
10879	AAA	ULLA H08	ULLA	7.02	±9.8
10880	AAA	ULLA H09	ULLA	3.82	±9.8
10881	AAA	ULLA H09p4	ULLA	1.50	±9.8
10882	AAA	ULLA H09p8	ULLA	1.44	±9.8

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July 22, 2022

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>k</sup> k=2
1C983	AAA	5G NR DL (CP-OFDM, TM S.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.21	±9.6
1C984	AAA	5G NR DL (CP-OFDM, TM S.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	±9.6
1C985	AAA	5G NR DL (CP-OFDM, TM S.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	±9.6
1C986	AAA	5G NR DL (CP-OFDM, TM S.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.20	±9.6
1C987	AAA	5G NR DL (CP-OFDM, TM S.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.22	±9.6
1C988	AAA	5G NR DL (CP-OFDM, TM S.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.28	±9.6
1C989	AAA	5G NR DL (CP-OFDM, TM S.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.22	±9.6
1C990	AAA	5G NR DL (CP-OFDM, TM S.1, 30 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.62	±9.6

<sup>k</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



**Appendix A.2 Dipole Calibration certificate (EUmmWV4\_9489)**

**Calibration Laboratory of  
 Schmid & Partner  
 Engineering AG**  
 Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
 The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates



Accreditation No.: **SCS 0108**

Client **KCTL (Dymstec)**

Certificate No: **EUmmWV4-9489\_May22**

CALIBRATION CERTIFICATE	
Object	EUmmWV4 - SN:9489
Calibration procedure(s)	QA CAL-02.v9, QA CAL-25.v7, QA CAL-42.v2 Calibration procedure for E-field probes optimized for close near field evaluations in air
Calibration date:	May 25, 2022
<p>This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).                      The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.</p> <p>All calibrations have been conducted in the closed laboratory facility, environment temperature (22 ± 3)°C and humidity &lt; 70%.</p> <p>Calibration Equipment used (M&amp;TE critical for calibration)</p>	

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Calibration
Power sensor NRIP110T	SN: 101244	14-Mar-22 (No. 20A1037915)	Mar-23
RAS FSV40 Spectrum Analyzer	SN: 101832	25-Jan-22 (No. 4050-315003389)	Jan-25
Reference Probe EUmmWV3	SN: 9374	21-Dec-21 (No. EUmmWV3-9374_Dec21)	Dec-22
DAE1	SN: 789	24-Dec-21 (No. DAE4-789_Dec21)	Dec-22
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Generator, Anapico, APSIN26G	SN: 869	28-Mar-17 (In house check May-22)	In house check: May-23
Generator, Agilent, E8251A	SN: US41140111	28-Mar-17 (In house check May-22)	In house check: May-23

Calibrated by:	Name Lail Klyssner	Function Laboratory Technician	Signature 
Approved by:	Sven Kluhn	Technical Manager	
			Issued: May 31, 2022
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

**Glossary:**

<b>NORM<sub>x,y,z</sub></b>	sensitivity in free space
<b>DCP</b>	diode compression point
<b>CF</b>	crest factor (1/duty_cycle) of the RF signal
<b>A, B, C, D</b>	modulation dependent linearization parameters
<b>Polarization <math>\varphi</math></b>	$\varphi$ rotation around probe axis
<b>Polarization <math>\hat{\theta}</math></b>	$\hat{\theta}$ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\hat{\theta} = 0$ is normal to probe axis
<b>Connector Angle</b>	information used in DASY system to align probe sensor X to the robot coordinate system
<b>Sensor Angles</b>	sensor deviation from the probe axis, used to calculate the field orientation and polarization
<b><math>\hat{k}</math></b>	is the wave propagation direction

**Calibration is Performed According to the Following Standards:**

- a) IEEE Std 1309-2005, "IEEE Standard for calibration of electromagnetic field sensors and probes, excluding antennas, from 9 kHz to 40 GHz", December 2005

**Methods Applied and Interpretation of Parameters:**

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\hat{\theta} = 0$  for XY sensors and  $\hat{\theta} = 90$  for Z sensor ( $f < 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). For frequencies  $> 6$  GHz, the far field in front of waveguide horn antennas is measured for a set of frequencies in various waveguide bands up to 110 GHz.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- The frequency sensor model parameters are determined prior to calibration based on a frequency sweep (sensor model involving resistors R, R<sub>p</sub>, inductance L and capacitors C, C<sub>p</sub>).
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; D<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- Sensor Offset**: The sensor offset corresponds to the mechanical from the probe tip (on probe axis). No tolerance required.
- Connector Angle**: The angle is assessed using the information gained by determining the **NORM<sub>x</sub>** (no uncertainty required).
- Equivalent Sensor Angle**: The two probe sensors are mounted in the same plane at different angles. The angles are assessed using the information gained by determining the **NORM<sub>x</sub>** (no uncertainty required).
- Spherical isotropy (3D deviation from isotropy)**: in a locally homogeneous field realized using an open waveguide / horn setup.



EUmmWV4 - SN: 9489

May 25, 2022

## DASY - Parameters of Probe: EUmmWV4 - SN:9489

### Basic Calibration Parameters

	Sensor X	Sensor Y	Unc (k=2)
Norm ( $\mu\text{V}/(\text{V/m})^2$ )	0.02179	0.02405	$\pm 10.1 \%$
DCP (mV) <sup>2</sup>	104.0	104.0	
Equivalent Sensor Angle	-61.9	35.5	

### Calibration results for Frequency Response (750 MHz – 110 GHz)

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k=2) dB
0.75	77.2	0.02	-0.04	$\pm 0.43$ dB
1.8	140.4	0.00	-0.01	$\pm 0.43$ dB
2	133.0	0.12	0.14	$+ 0.43$ dB
2.2	124.8	-0.09	-0.06	$\pm 0.43$ dB
2.5	123.0	0.08	0.09	$\pm 0.43$ dB
3.5	266.2	-0.23	-0.32	$\pm 0.43$ dB
3.7	249.8	-0.21	-0.33	$\pm 0.43$ dB
6.6	41.8	0.62	0.63	$+ 0.98$ dB
8	48.4	0.04	-0.10	$\pm 0.98$ dB
10	54.4	-0.05	-0.02	$\pm 0.98$ dB
15	71.5	0.05	-0.27	$+ 0.98$ dB
18	85.3	0.16	0.48	$\pm 0.98$ dB
26.6	96.9	-0.06	-0.04	$\pm 0.98$ dB
30	92.6	0.02	0.05	$\pm 0.98$ dB
35	93.7	0.05	0.00	$\pm 0.98$ dB
40	91.5	-0.18	-0.27	$\pm 0.98$ dB
50	19.6	0.09	0.08	$\pm 0.98$ dB
55	22.4	-0.03	-0.01	$\pm 0.98$ dB
60	23.0	0.04	-0.04	$+ 0.98$ dB
65	27.4	-0.52	-0.27	$\pm 0.98$ dB
70	23.9	-0.23	-0.36	$\pm 0.98$ dB
75	20.0	-0.14	0.03	$+ 0.98$ dB
75	14.8	-0.10	0.02	$\pm 0.98$ dB
80	22.5	0.00	0.23	$- 0.98$ dB
85	22.8	-0.04	-0.04	$\pm 0.98$ dB
90	23.8	0.08	0.08	$\pm 0.98$ dB
92	23.9	-0.15	-0.21	$+ 0.98$ dB
95	20.5	-0.17	-0.18	$\pm 0.98$ dB
97	24.4	-0.10	-0.18	$\pm 0.98$ dB
100	22.6	-0.05	-0.13	$+ 0.98$ dB
105	22.7	-0.12	0.08	$\pm 0.98$ dB
110	19.7	0.20	0.21	$\pm 0.98$ dB

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>1</sup> Numerical linearization parameter; uncertainty not required.

<sup>2</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

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## DASY - Parameters of Probe: EUmmWV4 - SN:9489

### Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB $\mu$ V	C	D dB	VR mV	Max dev.	Max Unc <sup>F</sup> (k=2)
0	CW	X	0.00	0.00	1.00	0.00	137.8	± 2.7 %	± 4.7 %
		Y	0.00	0.00	1.00		79.0		
10352- AAA	Pulse Waveform (200Hz, 10%)	X	2.59	60.00	13.83	10.00	6.0	± 1.5 %	± 9.6 %
		Y	2.09	60.00	14.96		6.0		
10353- AAA	Pulse Waveform (200Hz, 20%)	X	1.76	60.00	12.46	6.99	12.0	± 1.0 %	± 9.6 %
		Y	1.43	60.00	13.93		12.0		
10354- AAA	Pulse Waveform (200Hz, 40%)	X	1.03	60.00	11.16	3.98	23.0	± 1.5 %	± 9.6 %
		Y	0.88	60.00	12.67		23.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	0.61	60.00	10.39	2.22	27.0	± 1.0 %	± 9.6 %
		Y	0.65	60.00	11.45		27.0		
10387- AAA	QPSK Waveform, 1 MHz	X	1.13	60.00	11.61	1.00	22.0	± 1.7 %	± 9.6 %
		Y	1.32	60.00	11.45		22.0		
10388- AAA	QPSK Waveform, 10 MHz	X	1.30	60.00	11.64	0.00	22.0	± 1.0 %	± 9.6 %
		Y	1.58	60.00	11.35		22.0		
10396- AAA	64-QAM Waveform, 100 kHz	X	2.32	61.65	14.27	3.01	17.0	± 0.8 %	± 9.6 %
		Y	2.19	60.00	13.64		17.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	2.14	60.00	12.20	0.00	19.0	± 1.0 %	± 9.6 %
		Y	2.36	60.00	12.03		19.0		
10414- AAA	WLAN CCDF, 64-QAM, 40MHz	X	3.27	60.00	12.67	0.00	12.0	± 0.8 %	± 9.6 %
		Y	3.60	60.00	12.48		12.0		

Note: For details on all calibrated UID parameters see Appendix

### Calibration Results for Linearity Response

Frequency GHz	Target E-Field V/m	Deviation Sensor X dB	Deviation Sensor Y dB	Unc (k=2) dB
0.9	50.0	-0.08	0.12	+ 0.2 dB
0.9	100.0	0.00	0.01	± 0.2 dB
0.9	500.0	0.03	-0.01	± 0.2 dB
0.9	1000.0	0.06	0.00	+ 0.2 dB
0.9	1500.0	0.04	0.00	± 0.2 dB
0.9	2000.0	0.02	-0.01	± 0.2 dB

### Sensor Frequency Model Parameters (750 MHz – 55 GHz)

	Sensor X	Sensor Y
R ( $\Omega$ )	73.07	72.81
R <sub>0</sub> ( $\Omega$ )	96.15	96.38
L (nH)	0.12154	0.10510
C (pF)	0.2165	0.2611
C <sub>p</sub> (pF)	0.0676	0.0677

### Sensor Frequency Model Parameters (55 GHz – 110 GHz)

	Sensor X	Sensor Y
R ( $\Omega$ )	34.83	34.92
R <sub>p</sub> ( $\Omega$ )	95.09	95.03
L (nH)	0.03006	0.03155
C (pF)	0.2383	0.2325
C <sub>0</sub> (pF)	0.1390	0.1315

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## DASY - Parameters of Probe: EUmmWV4 - SN:9489

### Sensor Model Parameters

	C1 fF	C2 fF	$\alpha$ V <sup>-1</sup>	T1 ms.V <sup>-2</sup>	T2 ms.V <sup>-1</sup>	T3 ms	T4 V <sup>-2</sup>	T5 V <sup>-1</sup>	T6
X	43.3	318.35	34.39	0.92	5.43	4.96	0.00	1.30	1.01
Y	42.4	308.41	33.81	0.92	4.48	5.02	0.00	1.72	1.01

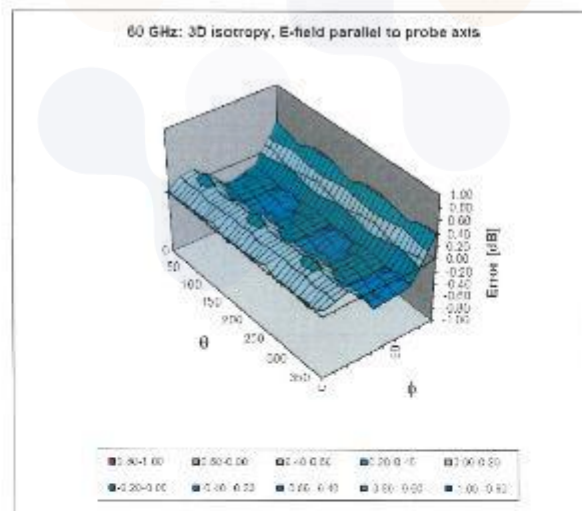
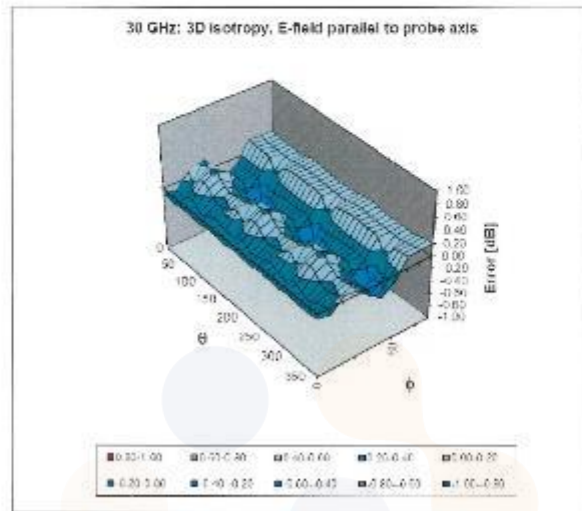
### Other Probe Parameters

Sensor Arrangement	Rectangular
Connector Angle (°)	-142.9
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	320 mm
Probe Body Diameter	8 mm
Tip Length	23 mm
Tip Diameter	8.0 mm
Probe Tip to Sensor X Calibration Point	1.5 mm
Probe Tip to Sensor Y Calibration Point	1.5 mm

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### Deviation from Isotropy in Air f = 30, 60 GHz



Probe isotropy for  $E_{HK}$ : probe rotated  $\varphi = 0^\circ$  to  $360^\circ$ , tilted from field propagation direction  $\vec{k}$   
 Parallel to the field propagation ( $\psi = 0^\circ - 90^\circ$ ) at 30 GHz: deviation within  $\pm 0.35$  dB  
 Parallel to the field propagation ( $\psi = 0^\circ - 90^\circ$ ) at 60 GHz: deviation within  $\pm 0.38$  dB

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**Appendix: Modulation Calibration Parameters**

UID	Rev	Communication System Name	Group	PAR (dB)	Unc <sup>2</sup> (km <sup>2</sup> )
0	-	CW	CW	0.00	± 4.7 %
10010	CAA	SAR Validation (Square, 100ms, 10ms)	Test	10.00	± 9.6 %
10011	CAB	UMTS-FDD (WCDMA)	WCDMA	2.91	± 9.6 %
10012	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps)	WLAN	1.87	± 9.6 %
10013	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps)	WLAN	9.46	± 9.6 %
10021	DAC	GSM-FDD (TDMA, GMSK)	GSM	9.39	± 9.6 %
10023	DAC	GPRS-FDD (TDMA, GMSK, TN 0)	GSM	9.57	± 9.6 %
10024	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1)	GSM	6.58	± 9.6 %
10025	DAC	EDGE-FDD (TDMA, 8PSK, TN 0)	GSM	12.02	± 9.6 %
10026	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1)	GSM	9.55	± 9.6 %
10027	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2)	GSM	4.80	± 9.6 %
10028	DAC	GPRS-FDD (TDMA, GMSK, TN 0-1-2-3)	GSM	3.55	± 9.6 %
10029	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2)	GSM	7.78	± 9.6 %
10030	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH1)	Bluetooth	5.30	± 9.6 %
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH3)	Bluetooth	1.87	± 9.6 %
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DH5)	Bluetooth	1.16	± 9.6 %
10033	CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH1)	Bluetooth	7.74	± 9.6 %
10034	CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH3)	Bluetooth	4.53	± 9.6 %
10035	CAA	IEEE 802.15.1 Bluetooth (PI4-DQPSK, DH5)	Bluetooth	3.83	± 9.6 %
10036	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH1)	Bluetooth	6.01	± 9.6 %
10037	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH3)	Bluetooth	4.77	± 9.6 %
10038	CAA	IEEE 802.15.1 Bluetooth (8-DPSK, DH5)	Bluetooth	4.10	± 9.6 %
10039	CAB	CDMA2000 (1xRTT, RC1)	CDMA2000	4.57	± 9.6 %
10042	CAB	IS-64 / IS-136 FDD (TDMA/FDM, PI4-DQPSK, Halfrate)	AMPS	7.78	± 9.6 %
10044	CAA	IS-91/EIA/TIA-553 FDD (FDMA, FM)	AMPS	0.00	± 9.6 %
10048	CAA	DECT (TDD, TDMA/FDM, GFSK, Full Slot, 24)	DECT	13.80	± 9.6 %
10049	CAA	DECT (TDD, TDMA/FDM, GFSK, Double Slot, 12)	DECT	10.79	± 9.6 %
10056	CAA	UMTS-TDD (TD-SCDMA, 1.28 Mcps)	TD-SCDMA	11.01	± 9.6 %
10058	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-1-2-3)	GSM	6.52	± 9.6 %
10059	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps)	WLAN	2.12	± 9.6 %
10060	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps)	WLAN	2.83	± 9.6 %
10061	CAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps)	WLAN	3.60	± 9.6 %
10062	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	± 9.6 %
10063	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	± 9.6 %
10064	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	± 9.6 %
10065	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	± 9.6 %
10066	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	± 9.6 %
10067	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	± 9.6 %
10068	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	± 9.6 %
10069	CAD	IEEE 802.11a/n WiFi 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	± 9.6 %
10071	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 9 Mbps)	WLAN	9.83	± 9.6 %
10072	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 12 Mbps)	WLAN	9.62	± 9.6 %
10073	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 18 Mbps)	WLAN	9.94	± 9.6 %
10074	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 24 Mbps)	WLAN	10.30	± 9.6 %
10075	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 36 Mbps)	WLAN	10.77	± 9.6 %
10076	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 48 Mbps)	WLAN	10.94	± 9.6 %
10077	CAB	IEEE 802.11g WiFi 2.4 GHz (DSSS/OFDM, 54 Mbps)	WLAN	11.00	± 9.6 %
10081	CAB	CDMA2000 (1xRTT, RC3)	CDMA2000	3.97	± 9.6 %
10082	CAB	IS-64 / IS-136 FDD (TDMA/FDM, PI4-DQPSK, Fullrate)	AMPS	4.77	± 9.6 %
10090	DAC	GPRS-FDD (TDMA, GMSK, TN 0-4)	GSM	6.56	± 9.6 %
10097	CAB	UMTS-FDD (HSDPA)	WCDMA	3.98	± 9.6 %
10098	CAB	UMTS-FDD (HSUPA, Subtest 2)	WCDMA	3.98	± 9.6 %
10099	DAC	EDGE-FDD (TDMA, 8PSK, TN 0-4)	GSM	9.55	± 9.6 %

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10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	± 9.6 %
10101	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10102	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10103	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10104	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	± 9.6 %
10105	CAG	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	± 9.6 %
10106	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	± 9.6 %
10109	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10110	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10111	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	± 9.6 %
10112	CAG	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	± 9.6 %
10113	CAG	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10114	CAD	IEEE 802.11n (HT Greenfield, 13.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10115	CAD	IEEE 802.11n (HT Greenfield, 81 Mbps, 16-QAM)	WLAN	8.46	± 9.6 %
10116	CAD	IEEE 802.11n (HT Greenfield, 135 Mbps, 64-QAM)	WLAN	8.15	± 9.6 %
10117	CAD	IEEE 802.11n (HT Mixed, 13.5 Mbps, BPSK)	WLAN	8.07	± 9.6 %
10118	CAD	IEEE 802.11n (HT Mixed, 81 Mbps, 16-QAM)	WLAN	8.59	± 9.6 %
10119	CAD	IEEE 802.11n (HT Mixed, 135 Mbps, 64-QAM)	WLAN	8.13	± 9.6 %
10140	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10141	CAE	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-FDD	6.53	± 9.6 %
10142	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10143	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-FDD	6.35	± 9.6 %
10144	CAE	LTE-FDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-FDD	6.65	± 9.6 %
10145	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	± 9.6 %
10146	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	± 9.6 %
10147	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	± 9.6 %
10149	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	± 9.6 %
10150	CAE	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10151	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	± 9.6 %
10152	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10153	CAG	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10154	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.75	± 9.6 %
10155	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10156	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	± 9.6 %
10157	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	± 9.6 %
10158	CAG	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	6.62	± 9.6 %
10159	CAG	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.56	± 9.6 %
10160	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-FDD	5.82	± 9.6 %
10161	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-FDD	6.43	± 9.6 %
10162	CAE	LTE-FDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-FDD	6.58	± 9.6 %
10166	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.46	± 9.6 %
10167	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.21	± 9.6 %
10168	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.79	± 9.6 %
10169	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10170	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10171	CAE	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-FDD	6.49	± 9.6 %
10172	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10173	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10174	CAG	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10175	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10176	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10177	CAI	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10178	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10179	CAG	LTE-FDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10180	CAG	LTE-FDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10181	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %

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10182	CAE	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10183	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10184	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10185	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	± 9.6 %
10186	AAF	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10187	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	± 9.6 %
10188	CAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.52	± 9.6 %
10189	AAF	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.50	± 9.6 %
10193	CAD	IEEE 802.11n (HT Greenfield, 6.5 Mbps, BPSK)	WLAN	8.09	± 9.6 %
10194	CAD	IEEE 802.11n (HT Greenfield, 39 Mbps, 16-QAM)	WLAN	8.12	± 9.6 %
10195	CAD	IEEE 802.11n (HT Greenfield, 85 Mbps, 64-QAM)	WLAN	8.21	± 9.6 %
10196	CAD	IEEE 802.11n (HT Mixed, 6.5 Mbps, BPSK)	WLAN	8.10	± 9.6 %
10197	CAD	IEEE 802.11n (HT Mixed, 39 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10198	CAD	IEEE 802.11n (HT Mixed, 85 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10219	CAD	IEEE 802.11n (HT Mixed, 7.2 Mbps, BPSK)	WLAN	8.03	± 9.6 %
10220	CAD	IEEE 802.11n (HT Mixed, 43.3 Mbps, 16-QAM)	WLAN	8.13	± 9.6 %
10221	CAD	IEEE 802.11n (HT Mixed, 72.2 Mbps, 64-QAM)	WLAN	8.27	± 9.6 %
10222	CAD	IEEE 802.11n (HT Mixed, 15 Mbps, BPSK)	WLAN	8.08	± 9.6 %
10223	CAD	IEEE 802.11n (HT Mixed, 90 Mbps, 16-QAM)	WLAN	8.48	± 9.6 %
10224	CAD	IEEE 802.11n (HT Mixed, 150 Mbps, 64-QAM)	WLAN	8.08	± 9.6 %
10225	CAB	UMTS-FDD (HSPA+)	WCDMA	5.97	± 9.6 %
10226	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	± 9.6 %
10227	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	± 9.6 %
10228	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	± 9.6 %
10229	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10230	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10231	CAD	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	± 9.6 %
10232	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10233	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10234	CAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10235	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10236	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10237	CAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10238	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM)	LTE-TDD	9.48	± 9.6 %
10239	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-TDD	10.25	± 9.6 %
10240	CAF	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK)	LTE-TDD	9.21	± 9.6 %
10241	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	± 9.6 %
10242	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	± 9.6 %
10243	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	± 9.6 %
10244	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10245	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	± 9.6 %
10246	CAD	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10247	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	± 9.6 %
10248	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	± 9.6 %
10249	CAG	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	± 9.6 %
10250	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	± 9.6 %
10251	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	± 9.6 %
10252	CAG	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10253	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.90	± 9.6 %
10254	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	± 9.6 %
10255	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	± 9.6 %
10256	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.96	± 9.6 %
10257	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	± 9.6 %
10258	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	± 9.6 %
10259	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.98	± 9.6 %
10260	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.97	± 9.6 %

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10261	CAD	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK)	LTE-TDD	9.24	± 9.6 %
10262	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-TDD	9.83	± 9.6 %
10263	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM)	LTE-TDD	10.16	± 9.6 %
10264	CAG	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK)	LTE-TDD	9.23	± 9.6 %
10265	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-TDD	9.92	± 9.6 %
10266	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-TDD	10.07	± 9.6 %
10267	CAG	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-TDD	9.30	± 9.6 %
10268	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM)	LTE-TDD	10.06	± 9.6 %
10269	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM)	LTE-TDD	10.13	± 9.6 %
10270	CAF	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-TDD	9.58	± 9.6 %
10274	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.10)	WCDMA	4.87	± 9.6 %
10275	CAB	UMTS-FDD (HSUPA, Subtest 5, 3GPP Rel8.4)	WCDMA	3.96	± 9.6 %
10277	CAA	PHS (QPSK)	PHS	11.81	± 9.6 %
10278	CAA	PHS (QPSK, BW 884MHz, RollOff 0.5)	PHS	11.81	± 9.6 %
10279	CAA	PHS (QPSK, BW 884MHz, RollOff 0.36)	PHS	12.18	± 9.6 %
10290	AAB	CDMA2000, RC1, SO55, Full Rate	CDMA2000	3.91	± 9.6 %
10291	AAB	CDMA2000, RC3, SO55, Full Rate	CDMA2000	3.46	± 9.6 %
10292	AAB	CDMA2000, RC3, SO32, Full Rate	CDMA2000	3.39	± 9.6 %
10293	AAB	CDMA2000, RC3, SO3, Full Rate	CDMA2000	3.50	± 9.6 %
10295	AAB	CDMA2000, RC1, SO3, 1/8th Rate 25 fr.	CDMA2000	12.49	± 9.6 %
10297	AAD	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-FDD	5.81	± 9.6 %
10298	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.72	± 9.6 %
10299	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	6.39	± 9.6 %
10300	AAD	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.60	± 9.6 %
10301	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC)	WiMAX	12.03	± 9.6 %
10302	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, QPSK, PUSC, 3CTRL)	WiMAX	12.57	± 9.6 %
10303	AAA	IEEE 802.16e WiMAX (31:15, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	12.52	± 9.6 %
10304	AAA	IEEE 802.16e WiMAX (29:18, 5ms, 10MHz, 64QAM, PUSC)	WiMAX	11.86	± 9.6 %
10305	AAA	IEEE 802.16e WiMAX (31:15, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	15.24	± 9.6 %
10306	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 64QAM, PUSC)	WiMAX	14.67	± 9.6 %
10307	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, PUSC)	WiMAX	14.49	± 9.6 %
10308	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, PUSC)	WiMAX	14.46	± 9.6 %
10309	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, 16QAM, AMC 2x3)	WiMAX	14.58	± 9.6 %
10310	AAA	IEEE 802.16e WiMAX (29:18, 10ms, 10MHz, QPSK, AMC 2x3)	WiMAX	14.57	± 9.6 %
10311	AAD	LTE-FDD (SC-FDMA, 100% RB, 15 MHz, QPSK)	LTE-FDD	6.06	± 9.6 %
10313	AAA	iDEN 1:3	iDEN	10.51	± 9.6 %
10314	AAA	iDEN 1:6	iDEN	13.48	± 9.6 %
10315	AAB	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 96pc dc)	WLAN	1.71	± 9.6 %
10316	AAB	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 5 Mbps, 96pc dc)	WLAN	6.36	± 9.6 %
10317	AAD	IEEE 802.11a WiFi 5 GHz (OFDM, 6 Mbps, 96pc dc)	WLAN	8.36	± 9.6 %
10352	AAA	Pulse Waveform (200Hz, 10%)	Generic	10.00	± 9.6 %
10353	AAA	Pulse Waveform (200Hz, 20%)	Generic	6.99	± 9.6 %
10354	AAA	Pulse Waveform (200Hz, 40%)	Generic	3.98	± 9.6 %
10355	AAA	Pulse Waveform (200Hz, 60%)	Generic	2.22	± 9.6 %
10356	AAA	Pulse Waveform (200Hz, 80%)	Generic	0.97	± 9.6 %
10387	AAA	QPSK Waveform, 1 MHz	Generic	5.10	± 9.6 %
10388	AAA	QPSK Waveform, 10 MHz	Generic	5.22	± 9.6 %
10396	AAA	64-QAM Waveform, 100 kHz	Generic	6.27	± 9.6 %
10399	AAA	64-QAM Waveform, 40 MHz	Generic	6.27	± 9.6 %
10400	AAE	IEEE 802.11ac WiFi (20MHz, 64-QAM, 99pc dc)	WLAN	8.37	± 9.6 %
10401	AAE	IEEE 802.11ac WiFi (40MHz, 64-QAM, 99pc dc)	WLAN	8.60	± 9.6 %
10402	AAE	IEEE 802.11ac WiFi (80MHz, 64-QAM, 99pc dc)	WLAN	8.53	± 9.6 %
10403	AAB	CDMA2000 (1xEV-DO, Rev. 0)	CDMA2000	3.76	± 9.6 %
10404	AAB	CDMA2000 (1xEV-DO, Rev. A)	CDMA2000	3.77	± 9.6 %
10406	AAB	CDMA2000, HCS, SO32, 8CHO, Full Rate	CDMA2000	5.22	± 9.6 %
10410	AAG	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub-2,3,4,7,8,9)	LTE-TDD	7.82	± 9.6 %



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10414	AAA	WLAN CCDF, 64-QAM, 40MHz	Generic	8.54	± 9.6 %
10415	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 99pc dc)	WLAN	1.54	± 9.6 %
10416	AAA	IEEE 802.11g WiFi 2.4 GHz (ERP-OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10417	AAC	IEEE 802.11a/h WiFi 5 GHz (OFDM, 6 Mbps, 99pc dc)	WLAN	8.23	± 9.6 %
10418	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Long)	WLAN	8.14	± 9.6 %
10419	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 99pc, Short)	WLAN	8.19	± 9.6 %
10422	AAC	IEEE 802.11n (HT Greenfield, 7.2 Mbps, BPSK)	WLAN	8.32	± 9.6 %
10423	AAC	IEEE 802.11n (HT Greenfield, 43.3 Mbps, 16-QAM)	WLAN	8.47	± 9.6 %
10424	AAC	IEEE 802.11n (HT Greenfield, 72.2 Mbps, 64-QAM)	WLAN	8.40	± 9.6 %
10425	AAC	IEEE 802.11n (HT Greenfield, 15 Mbps, BPSK)	WLAN	8.41	± 9.6 %
10426	AAC	IEEE 802.11n (HT Greenfield, 90 Mbps, 16-QAM)	WLAN	8.45	± 9.6 %
10427	AAC	IEEE 802.11n (HT Greenfield, 150 Mbps, 64-QAM)	WLAN	8.41	± 9.6 %
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 9.6 %
10431	AAD	LTE FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 9.6 %
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 9.6 %
10434	AAA	W-CDMA (BS Test Model 1, 64 DPCH)	WCDMA	8.60	± 9.6 %
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10447	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 9.6 %
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 9.6 %
10449	AAC	LTE FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 9.6 %
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 9.6 %
10451	AAA	W-CDMA (BS Test Model 1, 64 DPCH, Clipping 44%)	WCDMA	7.59	± 9.6 %
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 9.6 %
10456	AAC	IEEE 802.11ac WiFi (160MHz, 64-QAM, 99pc dc)	WLAN	8.03	± 9.6 %
10457	AAA	UMTS-FDD (DC-HSDPA)	WCDMA	6.62	± 9.6 %
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 2 carriers)	CDMA2000	6.55	± 9.6 %
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3 carriers)	CDMA2000	8.25	± 9.6 %
10460	AAA	UMTS-FDD (WCDMA, AMR)	WCDMA	2.39	± 9.6 %
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.30	± 9.6 %
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.56	± 9.6 %
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10473	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.82	± 9.6 %
10474	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10475	AAE	LTE-TDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.32	± 9.6 %
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.57	± 9.6 %
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.74	± 9.6 %
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.18	± 9.6 %
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	± 9.6 %
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.71	± 9.6 %
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.39	± 9.6 %
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.47	± 9.6 %
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.59	± 9.6 %
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.38	± 9.6 %
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.60	± 9.6 %
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.70	± 9.6 %

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10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	+9.6%
10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	±9.6%
10491	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10492	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.41	±9.6%
10493	AAE	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	±9.6%
10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10495	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.37	±9.6%
10498	AAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	+9.6%
10497	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK, UL Sub)	LTE-TDD	7.57	±9.6%
10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL Sub)	LTE-TDD	8.40	±9.6%
10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL Sub)	LTE-TDD	8.68	±9.6%
10500	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, QPSK, UL Sub)	LTE-TDD	7.57	±9.6%
10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL Sub)	LTE-TDD	8.44	±9.6%
10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL Sub)	LTE-TDD	8.52	±9.6%
10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, QPSK, UL Sub)	LTE-TDD	7.72	±9.6%
10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM, UL Sub)	LTE-TDD	8.31	±9.6%
10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 5 MHz, 64-QAM, UL Sub)	LTE-TDD	8.54	+9.6%
10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL Sub)	LTE-TDD	8.36	±9.6%
10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL Sub)	LTE-TDD	8.55	±9.6%
10509	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, QPSK, UL Sub)	LTE-TDD	7.99	±9.6%
10510	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 16-QAM, UL Sub)	LTE-TDD	8.49	±9.6%
10511	AAE	LTE-TDD (SC-FDMA, 100% RB, 15 MHz, 64-QAM, UL Sub)	LTE-TDD	8.51	±9.6%
10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK, UL Sub)	LTE-TDD	7.74	±9.6%
10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL Sub)	LTE-TDD	8.42	±9.6%
10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL Sub)	LTE-TDD	8.45	+9.6%
10515	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 99pc dc)	WLAN	1.58	±9.6%
10516	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 99pc dc)	WLAN	1.57	±9.6%
10517	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 99pc dc)	WLAN	1.58	±9.6%
10518	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 9 Mbps, 99pc dc)	WLAN	8.23	+9.6%
10519	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 12 Mbps, 99pc dc)	WLAN	8.39	±9.6%
10520	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 18 Mbps, 99pc dc)	WLAN	8.12	±9.6%
10521	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 24 Mbps, 99pc dc)	WLAN	7.97	±9.6%
10522	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 36 Mbps, 99pc dc)	WLAN	8.45	±9.6%
10523	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 48 Mbps, 99pc dc)	WLAN	8.08	±9.6%
10524	AAC	IEEE 802.11a WiFi 5 GHz (OFDM, 54 Mbps, 99pc dc)	WLAN	8.27	+9.6%
10525	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 99pc dc)	WLAN	8.36	+9.6%
10526	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 99pc dc)	WLAN	8.42	±9.6%
10527	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 99pc dc)	WLAN	8.21	±9.6%
10528	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 99pc dc)	WLAN	8.36	±9.6%
10529	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 99pc dc)	WLAN	8.38	±9.6%
10531	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 99pc dc)	WLAN	8.43	±9.6%
10532	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 99pc dc)	WLAN	8.29	±9.6%
10533	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 99pc dc)	WLAN	8.38	±9.6%
10534	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 99pc dc)	WLAN	8.45	±9.6%
10535	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 99pc dc)	WLAN	8.45	±9.6%
10536	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 99pc dc)	WLAN	8.32	±9.6%
10537	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 99pc dc)	WLAN	8.44	+9.6%
10538	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 99pc dc)	WLAN	8.54	±9.6%
10540	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 99pc dc)	WLAN	8.39	±9.6%
10541	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 99pc dc)	WLAN	8.46	±9.6%
10542	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 99pc dc)	WLAN	8.65	±9.6%
10543	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 99pc dc)	WLAN	8.65	±9.6%
10544	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 99pc dc)	WLAN	8.47	±9.6%
10545	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 99pc dc)	WLAN	8.55	±9.6%
10546	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 99pc dc)	WLAN	8.35	±9.6%

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10547	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 99pc dc)	WLAN	8.49	± 9.6 %
10548	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 99pc dc)	WLAN	8.37	± 9.6 %
10550	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.39	± 9.6 %
10551	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 99pc dc)	WLAN	8.50	± 9.6 %
10552	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 99pc dc)	WLAN	8.42	± 9.6 %
10553	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 99pc dc)	WLAN	8.45	± 9.6 %
10554	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 99pc dc)	WLAN	8.48	± 9.6 %
10555	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 99pc dc)	WLAN	8.47	± 9.6 %
10556	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 99pc dc)	WLAN	8.50	± 9.6 %
10557	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 99pc dc)	WLAN	8.52	± 9.6 %
10558	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 99pc dc)	WLAN	8.51	± 9.6 %
10560	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.73	± 9.6 %
10561	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 99pc dc)	WLAN	8.56	± 9.6 %
10562	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 99pc dc)	WLAN	8.69	± 9.6 %
10563	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 99pc dc)	WLAN	8.77	± 9.6 %
10564	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 99pc dc)	WLAN	8.25	± 9.6 %
10565	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 99pc dc)	WLAN	8.45	± 9.6 %
10566	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 99pc dc)	WLAN	8.13	± 9.6 %
10567	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 99pc dc)	WLAN	8.00	± 9.6 %
10568	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 99pc dc)	WLAN	8.37	± 9.6 %
10569	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 99pc dc)	WLAN	8.10	± 9.6 %
10570	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 99pc dc)	WLAN	8.30	± 9.6 %
10571	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 1 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10572	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 2 Mbps, 90pc dc)	WLAN	1.99	± 9.6 %
10573	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 5.5 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10574	AAA	IEEE 802.11b WiFi 2.4 GHz (DSSS, 11 Mbps, 90pc dc)	WLAN	1.98	± 9.6 %
10575	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10576	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10577	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10578	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10579	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10580	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10581	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10582	AAA	IEEE 802.11g WiFi 2.4 GHz (DSSS-OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10583	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 6 Mbps, 90pc dc)	WLAN	8.59	± 9.6 %
10584	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 9 Mbps, 90pc dc)	WLAN	8.60	± 9.6 %
10585	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 12 Mbps, 90pc dc)	WLAN	8.70	± 9.6 %
10586	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 18 Mbps, 90pc dc)	WLAN	8.49	± 9.6 %
10587	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 24 Mbps, 90pc dc)	WLAN	8.36	± 9.6 %
10588	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 36 Mbps, 90pc dc)	WLAN	8.76	± 9.6 %
10589	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 48 Mbps, 90pc dc)	WLAN	8.35	± 9.6 %
10590	AAC	IEEE 802.11ah WiFi 5 GHz (OFDM, 54 Mbps, 90pc dc)	WLAN	8.67	± 9.6 %
10591	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS0, 90pc dc)	WLAN	8.63	± 9.6 %
10592	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10593	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS2, 90pc dc)	WLAN	8.64	± 9.6 %
10594	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10595	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS4, 90pc dc)	WLAN	8.74	± 9.6 %
10596	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS5, 90pc dc)	WLAN	8.71	± 9.6 %
10597	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS6, 90pc dc)	WLAN	8.72	± 9.6 %
10598	AAC	IEEE 802.11n (HT Mixed, 20MHz, MCS7, 90pc dc)	WLAN	8.50	± 9.6 %
10599	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS0, 90pc dc)	WLAN	8.79	± 9.6 %
10600	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS1, 90pc dc)	WLAN	8.88	± 9.6 %
10601	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS2, 90pc dc)	WLAN	8.82	± 9.6 %
10602	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS3, 90pc dc)	WLAN	8.94	± 9.6 %
10603	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS4, 90pc dc)	WLAN	9.03	± 9.6 %
10604	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS5, 90pc dc)	WLAN	8.76	± 9.6 %

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10605	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS6, 90pc dc)	WLAN	8.97	+ 9.6 %
10606	AAC	IEEE 802.11n (HT Mixed, 40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10607	AAC	IEEE 802.11ac WiFi (20MHz, MCS0, 90pc dc)	WLAN	8.64	± 9.6 %
10608	AAC	IEEE 802.11ac WiFi (20MHz, MCS1, 90pc dc)	WLAN	8.77	± 9.6 %
10609	AAC	IEEE 802.11ac WiFi (20MHz, MCS2, 90pc dc)	WLAN	8.57	± 9.6 %
10610	AAC	IEEE 802.11ac WiFi (20MHz, MCS3, 90pc dc)	WLAN	8.76	± 9.6 %
10611	AAC	IEEE 802.11ac WiFi (20MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10612	AAC	IEEE 802.11ac WiFi (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10613	AAC	IEEE 802.11ac WiFi (20MHz, MCS6, 90pc dc)	WLAN	8.94	± 9.6 %
10614	AAC	IEEE 802.11ac WiFi (20MHz, MCS7, 90pc dc)	WLAN	8.59	± 9.6 %
10615	AAC	IEEE 802.11ac WiFi (20MHz, MCS8, 90pc dc)	WLAN	8.82	+ 9.6 %
10616	AAC	IEEE 802.11ac WiFi (40MHz, MCS0, 90pc dc)	WLAN	8.82	± 9.6 %
10617	AAC	IEEE 802.11ac WiFi (40MHz, MCS1, 90pc dc)	WLAN	8.81	± 9.6 %
10618	AAC	IEEE 802.11ac WiFi (40MHz, MCS2, 90pc dc)	WLAN	8.58	± 9.6 %
10619	AAC	IEEE 802.11ac WiFi (40MHz, MCS3, 90pc dc)	WLAN	8.86	± 9.6 %
10620	AAC	IEEE 802.11ac WiFi (40MHz, MCS4, 90pc dc)	WLAN	8.87	± 9.6 %
10621	AAC	IEEE 802.11ac WiFi (40MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10622	AAC	IEEE 802.11ac WiFi (40MHz, MCS6, 90pc dc)	WLAN	8.68	± 9.6 %
10623	AAC	IEEE 802.11ac WiFi (40MHz, MCS7, 90pc dc)	WLAN	8.82	± 9.6 %
10624	AAC	IEEE 802.11ac WiFi (40MHz, MCS8, 90pc dc)	WLAN	8.96	+ 9.6 %
10625	AAC	IEEE 802.11ac WiFi (40MHz, MCS9, 90pc dc)	WLAN	8.96	± 9.6 %
10626	AAC	IEEE 802.11ac WiFi (80MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10627	AAC	IEEE 802.11ac WiFi (80MHz, MCS1, 90pc dc)	WLAN	8.88	+ 9.6 %
10628	AAC	IEEE 802.11ac WiFi (80MHz, MCS2, 90pc dc)	WLAN	8.71	± 9.6 %
10629	AAC	IEEE 802.11ac WiFi (80MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10630	AAC	IEEE 802.11ac WiFi (80MHz, MCS4, 90pc dc)	WLAN	8.72	± 9.6 %
10631	AAC	IEEE 802.11ac WiFi (80MHz, MCS5, 90pc dc)	WLAN	8.81	± 9.6 %
10632	AAC	IEEE 802.11ac WiFi (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10633	AAC	IEEE 802.11ac WiFi (80MHz, MCS7, 90pc dc)	WLAN	8.83	± 9.6 %
10634	AAC	IEEE 802.11ac WiFi (80MHz, MCS8, 90pc dc)	WLAN	8.80	± 9.6 %
10635	AAC	IEEE 802.11ac WiFi (80MHz, MCS9, 90pc dc)	WLAN	8.81	± 9.6 %
10636	AAD	IEEE 802.11ac WiFi (160MHz, MCS0, 90pc dc)	WLAN	8.83	± 9.6 %
10637	AAD	IEEE 802.11ac WiFi (160MHz, MCS1, 90pc dc)	WLAN	8.79	± 9.6 %
10638	AAD	IEEE 802.11ac WiFi (160MHz, MCS2, 90pc dc)	WLAN	8.86	± 9.6 %
10639	AAD	IEEE 802.11ac WiFi (160MHz, MCS3, 90pc dc)	WLAN	8.85	± 9.6 %
10640	AAD	IEEE 802.11ac WiFi (160MHz, MCS4, 90pc dc)	WLAN	8.98	± 9.6 %
10641	AAD	IEEE 802.11ac WiFi (160MHz, MCS5, 90pc dc)	WLAN	9.06	± 9.6 %
10642	AAD	IEEE 802.11ac WiFi (160MHz, MCS6, 90pc dc)	WLAN	9.06	± 9.6 %
10643	AAD	IEEE 802.11ac WiFi (160MHz, MCS7, 90pc dc)	WLAN	8.89	± 9.6 %
10644	AAD	IEEE 802.11ac WiFi (160MHz, MCS8, 90pc dc)	WLAN	9.05	± 9.6 %
10645	AAD	IEEE 802.11ac WiFi (160MHz, MCS9, 90pc dc)	WLAN	9.11	± 9.6 %
10646	AAG	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10647	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, QPSK, UL Sub=2,7)	LTE-TDD	11.96	± 9.6 %
10648	AAA	CDMA2000 (1x Advanced)	CDMA2000	3.45	± 9.6 %
10652	AAE	LTE-TDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.91	± 9.6 %
10653	AAE	LTE-TDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.42	± 9.6 %
10654	AAD	LTE-TDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	6.96	± 9.6 %
10655	AAE	LTE-TDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-TDD	7.21	± 9.6 %
10658	AAA	Pulse Waveform (200Hz, 10%)	Test	10.00	± 9.6 %
10659	AAA	Pulse Waveform (200Hz, 20%)	Test	6.99	± 9.6 %
10660	AAA	Pulse Waveform (200Hz, 40%)	Test	3.98	+ 9.6 %
10661	AAA	Pulse Waveform (200Hz, 60%)	Test	2.22	+ 9.6 %
10662	AAA	Pulse Waveform (200Hz, 80%)	Test	0.97	± 9.6 %
10670	AAA	Bluetooth Low Energy	Bluetooth	2.19	± 9.6 %
10671	AAC	IEEE 802.11ax (20MHz, MCS0, 90pc dc)	WLAN	9.09	± 9.6 %
10672	AAC	IEEE 802.11ax (20MHz, MCS1, 90pc dc)	WLAN	8.57	± 9.6 %

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10673	AAC	IEEE 802.11ax (20MHz, MCS2, 90pc dc)	WLAN	8.78	± 9.6 %
10674	AAC	IEEE 802.11ax (20MHz, MCS3, 90pc dc)	WLAN	8.74	± 9.6 %
10675	AAC	IEEE 802.11ax (20MHz, MCS4, 90pc dc)	WLAN	8.90	± 9.6 %
10676	AAC	IEEE 802.11ax (20MHz, MCS5, 90pc dc)	WLAN	8.77	± 9.6 %
10677	AAC	IEEE 802.11ax (20MHz, MCS6, 90pc dc)	WLAN	8.73	± 9.6 %
10678	AAC	IEEE 802.11ax (20MHz, MCS7, 90pc dc)	WLAN	8.78	± 9.6 %
10679	AAC	IEEE 802.11ax (20MHz, MCS8, 90pc dc)	WLAN	8.89	± 9.6 %
10680	AAC	IEEE 802.11ax (20MHz, MCS9, 90pc dc)	WLAN	8.80	± 9.6 %
10681	AAC	IEEE 802.11ax (20MHz, MCS10, 90pc dc)	WLAN	8.62	± 9.6 %
10682	AAC	IEEE 802.11ax (20MHz, MCS11, 90pc dc)	WLAN	8.83	± 9.6 %
10683	AAC	IEEE 802.11ax (20MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10684	AAC	IEEE 802.11ax (20MHz, MCS1, 99pc dc)	WLAN	8.26	± 9.6 %
10685	AAC	IEEE 802.11ax (20MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10686	AAC	IEEE 802.11ax (20MHz, MCS3, 99pc dc)	WLAN	8.28	± 9.6 %
10687	AAC	IEEE 802.11ax (20MHz, MCS4, 99pc dc)	WLAN	8.45	± 9.6 %
10688	AAC	IEEE 802.11ax (20MHz, MCS5, 99pc dc)	WLAN	8.29	± 9.6 %
10689	AAC	IEEE 802.11ax (20MHz, MCS6, 99pc dc)	WLAN	8.55	± 9.6 %
10690	AAC	IEEE 802.11ax (20MHz, MCS7, 99pc dc)	WLAN	8.29	± 9.6 %
10691	AAC	IEEE 802.11ax (20MHz, MCS8, 99pc dc)	WLAN	8.25	± 9.6 %
10692	AAC	IEEE 802.11ax (20MHz, MCS9, 99pc dc)	WLAN	8.29	± 9.6 %
10693	AAC	IEEE 802.11ax (20MHz, MCS10, 99pc dc)	WLAN	8.25	± 9.6 %
10694	AAC	IEEE 802.11ax (20MHz, MCS11, 99pc dc)	WLAN	8.57	± 9.6 %
10695	AAC	IEEE 802.11ax (40MHz, MCS0, 90pc dc)	WLAN	8.78	± 9.6 %
10696	AAC	IEEE 802.11ax (40MHz, MCS1, 90pc dc)	WLAN	8.91	± 9.6 %
10697	AAC	IEEE 802.11ax (40MHz, MCS2, 90pc dc)	WLAN	8.61	± 9.6 %
10698	AAC	IEEE 802.11ax (40MHz, MCS3, 90pc dc)	WLAN	8.89	± 9.6 %
10699	AAC	IEEE 802.11ax (40MHz, MCS4, 90pc dc)	WLAN	8.82	± 9.6 %
10700	AAC	IEEE 802.11ax (40MHz, MCS5, 90pc dc)	WLAN	8.73	± 9.6 %
10701	AAC	IEEE 802.11ax (40MHz, MCS6, 90pc dc)	WLAN	8.88	± 9.6 %
10702	AAC	IEEE 802.11ax (40MHz, MCS7, 90pc dc)	WLAN	8.70	± 9.6 %
10703	AAC	IEEE 802.11ax (40MHz, MCS8, 90pc dc)	WLAN	8.82	± 9.6 %
10704	AAC	IEEE 802.11ax (40MHz, MCS9, 90pc dc)	WLAN	8.66	± 9.6 %
10705	AAC	IEEE 802.11ax (40MHz, MCS10, 90pc dc)	WLAN	8.69	± 9.6 %
10706	AAC	IEEE 802.11ax (40MHz, MCS11, 90pc dc)	WLAN	8.66	± 9.6 %
10707	AAC	IEEE 802.11ax (40MHz, MCS0, 99pc dc)	WLAN	8.32	± 9.6 %
10708	AAC	IEEE 802.11ax (40MHz, MCS1, 99pc dc)	WLAN	8.55	± 9.6 %
10709	AAC	IEEE 802.11ax (40MHz, MCS2, 99pc dc)	WLAN	8.33	± 9.6 %
10710	AAC	IEEE 802.11ax (40MHz, MCS3, 99pc dc)	WLAN	8.29	± 9.6 %
10711	AAC	IEEE 802.11ax (40MHz, MCS4, 99pc dc)	WLAN	8.39	± 9.6 %
10712	AAC	IEEE 802.11ax (40MHz, MCS5, 99pc dc)	WLAN	8.67	± 9.6 %
10713	AAC	IEEE 802.11ax (40MHz, MCS6, 99pc dc)	WLAN	8.33	± 9.6 %
10714	AAC	IEEE 802.11ax (40MHz, MCS7, 99pc dc)	WLAN	8.28	± 9.6 %
10715	AAC	IEEE 802.11ax (40MHz, MCS8, 99pc dc)	WLAN	8.45	± 9.6 %
10716	AAC	IEEE 802.11ax (40MHz, MCS9, 99pc dc)	WLAN	8.30	± 9.6 %
10717	AAC	IEEE 802.11ax (40MHz, MCS10, 99pc dc)	WLAN	8.48	± 9.6 %
10718	AAC	IEEE 802.11ax (40MHz, MCS11, 99pc dc)	WLAN	8.24	± 9.6 %
10719	AAC	IEEE 802.11ax (80MHz, MCS0, 90pc dc)	WLAN	8.81	± 9.6 %
10720	AAC	IEEE 802.11ax (80MHz, MCS1, 90pc dc)	WLAN	8.87	± 9.6 %
10721	AAC	IEEE 802.11ax (80MHz, MCS2, 90pc dc)	WLAN	8.76	± 9.6 %
10722	AAC	IEEE 802.11ax (80MHz, MCS3, 90pc dc)	WLAN	8.66	± 9.6 %
10723	AAC	IEEE 802.11ax (80MHz, MCS4, 90pc dc)	WLAN	8.70	± 9.6 %
10724	AAC	IEEE 802.11ax (80MHz, MCS5, 90pc dc)	WLAN	8.90	± 9.6 %
10725	AAC	IEEE 802.11ax (80MHz, MCS6, 90pc dc)	WLAN	8.74	± 9.6 %
10726	AAC	IEEE 802.11ax (80MHz, MCS7, 90pc dc)	WLAN	8.72	± 9.6 %
10727	AAC	IEEE 802.11ax (80MHz, MCS8, 90pc dc)	WLAN	8.66	± 9.6 %
10728	AAC	IEEE 802.11ax (80MHz, MCS9, 90pc dc)	WLAN	8.65	± 9.6 %

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10729	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.64	± 9.6 %
10730	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.67	± 9.6 %
10731	AAC	IEEE 802.11ax (80MHz, MCS0, 99pc dc)	WLAN	8.42	± 9.6 %
10732	AAC	IEEE 802.11ax (80MHz, MCS1, 99pc dc)	WLAN	8.46	± 9.6 %
10733	AAC	IEEE 802.11ax (80MHz, MCS2, 99pc dc)	WLAN	8.40	± 9.6 %
10734	AAC	IEEE 802.11ax (80MHz, MCS3, 99pc dc)	WLAN	8.25	± 9.6 %
10735	AAC	IEEE 802.11ax (80MHz, MCS4, 99pc dc)	WLAN	8.33	± 9.6 %
10736	AAC	IEEE 802.11ax (80MHz, MCS5, 99pc dc)	WLAN	8.27	± 9.6 %
10737	AAC	IEEE 802.11ax (80MHz, MCS6, 99pc dc)	WLAN	8.36	± 9.6 %
10738	AAC	IEEE 802.11ax (80MHz, MCS7, 99pc dc)	WLAN	8.42	± 9.6 %
10739	AAC	IEEE 802.11ax (80MHz, MCS8, 99pc dc)	WLAN	8.29	± 9.6 %
10740	AAC	IEEE 802.11ax (80MHz, MCS9, 99pc dc)	WLAN	8.48	± 9.6 %
10741	AAC	IEEE 802.11ax (80MHz, MCS10, 99pc dc)	WLAN	8.40	± 9.6 %
10742	AAC	IEEE 802.11ax (80MHz, MCS11, 99pc dc)	WLAN	8.43	± 9.6 %
10743	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.94	± 9.6 %
10744	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	9.18	± 9.6 %
10745	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.93	± 9.6 %
10746	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	9.11	± 9.6 %
10747	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	9.04	± 9.6 %
10748	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.93	± 9.6 %
10749	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.90	± 9.6 %
10750	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.79	± 9.6 %
10751	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.82	± 9.6 %
10752	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.81	± 9.6 %
10753	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	9.00	± 9.6 %
10754	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.94	± 9.6 %
10755	AAC	IEEE 802.11ax (160MHz, MCS0, 99pc dc)	WLAN	8.64	± 9.6 %
10756	AAC	IEEE 802.11ax (160MHz, MCS1, 99pc dc)	WLAN	8.77	± 9.6 %
10757	AAC	IEEE 802.11ax (160MHz, MCS2, 99pc dc)	WLAN	8.77	± 9.6 %
10758	AAC	IEEE 802.11ax (160MHz, MCS3, 99pc dc)	WLAN	8.69	± 9.6 %
10759	AAC	IEEE 802.11ax (160MHz, MCS4, 99pc dc)	WLAN	8.58	± 9.6 %
10760	AAC	IEEE 802.11ax (160MHz, MCS5, 99pc dc)	WLAN	8.49	± 9.6 %
10761	AAC	IEEE 802.11ax (160MHz, MCS6, 99pc dc)	WLAN	8.58	± 9.6 %
10762	AAC	IEEE 802.11ax (160MHz, MCS7, 99pc dc)	WLAN	8.49	± 9.6 %
10763	AAC	IEEE 802.11ax (160MHz, MCS8, 99pc dc)	WLAN	8.53	± 9.6 %
10764	AAC	IEEE 802.11ax (160MHz, MCS9, 99pc dc)	WLAN	8.54	± 9.6 %
10765	AAC	IEEE 802.11ax (160MHz, MCS10, 99pc dc)	WLAN	8.54	± 9.6 %
10766	AAC	IEEE 802.11ax (160MHz, MCS11, 99pc dc)	WLAN	8.51	± 9.6 %
10767	AAF	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	7.99	± 9.6 %
10768	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10769	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10770	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10771	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10772	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.23	± 9.6 %
10773	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.03	± 9.6 %
10774	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.02	± 9.6 %
10775	AAD	5G NR (CP-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10776	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10777	AAC	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10778	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10779	AAC	5G NR (CP-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10780	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10781	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10782	AAD	5G NR (CP-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10783	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.31	± 9.6 %
10784	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.29	± 9.6 %

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10785	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10786	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10787	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.44	± 9.6 %
10788	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10789	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10790	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10791	AAE	5G NR (CP-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.83	± 9.6 %
10792	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.92	± 9.6 %
10793	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.95	± 9.6 %
10794	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10795	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.84	± 9.6 %
10796	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.82	± 9.6 %
10797	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.01	± 9.6 %
10798	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10799	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10801	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.89	± 9.6 %
10802	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.87	± 9.6 %
10803	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	7.93	± 9.6 %
10805	AAD	5G NR (CP-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10806	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10809	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10810	AAD	5G NR (CP-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10812	AAD	5G NR (CP-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10817	AAE	5G NR (CP-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10818	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10819	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.33	± 9.6 %
10820	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.30	± 9.6 %
10821	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10822	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10823	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10824	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.39	± 9.6 %
10825	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10827	AAD	5G NR (CP-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.42	± 9.6 %
10828	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.43	± 9.6 %
10829	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10830	AAD	5G NR (CP-OFDM, 1 RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.63	± 9.6 %
10831	AAD	5G NR (CP-OFDM, 1 RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.73	± 9.6 %
10832	AAD	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.74	± 9.6 %
10833	AAD	5G NR (CP-OFDM, 1 RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10834	AAD	5G NR (CP-OFDM, 1 RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.75	± 9.6 %
10835	AAD	5G NR (CP-OFDM, 1 RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10836	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10837	AAD	5G NR (CP-OFDM, 1 RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.68	± 9.6 %
10839	AAD	5G NR (CP-OFDM, 1 RB, 80 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.70	± 9.6 %
10840	AAD	5G NR (CP-OFDM, 1 RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.67	± 9.6 %
10841	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	7.71	± 9.6 %
10843	AAD	5G NR (CP-OFDM, 50% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.49	± 9.6 %
10844	AAD	5G NR (CP-OFDM, 50% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10846	AAD	5G NR (CP-OFDM, 50% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10854	AAD	5G NR (CP-OFDM, 100% RB, 10 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10855	AAD	5G NR (CP-OFDM, 100% RB, 15 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.38	± 9.6 %
10856	AAD	5G NR (CP-OFDM, 100% RB, 20 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10857	AAD	5G NR (CP-OFDM, 100% RB, 25 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.35	± 9.6 %
10858	AAD	5G NR (CP-OFDM, 100% RB, 30 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.36	± 9.6 %
10859	AAD	5G NR (CP-OFDM, 100% RB, 40 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.34	± 9.6 %
10860	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %

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10861	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.40	± 9.6 %
10863	AAD	5G NR (CP-OFDM, 100% RB, 60 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10864	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.37	± 9.6 %
10865	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 60 kHz)	5G NR FR1 TDD	8.41	± 9.6 %
10866	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10868	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.89	± 9.6 %
10869	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10870	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.85	± 9.6 %
10871	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10872	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.52	± 9.6 %
10873	AAD	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10874	AAD	5G NR (DFT-s-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10875	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10876	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.39	± 9.6 %
10877	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	7.95	± 9.6 %
10878	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10879	AAD	5G NR (CP-OFDM, 1 RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.12	± 9.6 %
10880	AAD	5G NR (CP-OFDM, 100% RB, 100 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.38	± 9.6 %
10881	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.75	± 9.6 %
10882	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	5.96	± 9.6 %
10883	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.57	± 9.6 %
10884	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	6.53	± 9.6 %
10885	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.61	± 9.6 %
10886	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	6.65	± 9.6 %
10887	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	7.78	± 9.6 %
10888	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, QPSK, 120 kHz)	5G NR FR2 TDD	8.35	± 9.6 %
10889	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.02	± 9.6 %
10890	AAD	5G NR (CP-OFDM, 100% RB, 50 MHz, 16QAM, 120 kHz)	5G NR FR2 TDD	8.40	± 9.6 %
10891	AAD	5G NR (CP-OFDM, 1 RB, 50 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.13	± 9.6 %
10892	AAD	5G NR (CP-OFDM, 100% RB, 90 MHz, 64QAM, 120 kHz)	5G NR FR2 TDD	8.41	± 9.6 %
10897	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.66	± 9.6 %
10898	AAB	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10899	AAB	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.67	± 9.6 %
10900	AAB	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10901	AAB	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10902	AAB	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10903	AAB	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10904	AAB	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10905	AAB	5G NR (DFT-s-OFDM, 1 RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10906	AAB	5G NR (DFT-s-OFDM, 1 RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.68	± 9.6 %
10907	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.78	± 9.6 %
10908	AAB	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10909	AAB	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.96	± 9.6 %
10910	AAB	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10911	AAB	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.93	± 9.6 %
10912	AAB	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10913	AAB	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10914	AAB	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.85	± 9.6 %
10915	AAB	5G NR (DFT-s-OFDM, 50% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.83	± 9.6 %
10916	AAB	5G NR (DFT-s-OFDM, 50% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10917	AAB	5G NR (DFT-s-OFDM, 50% RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10918	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10919	AAB	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.86	± 9.6 %
10920	AAB	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.87	± 9.6 %
10921	AAB	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10922	AAB	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.82	± 9.6 %

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10923	AAB	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10924	AAB	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10925	AAB	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.95	± 9.6 %
10926	AAB	5G NR (DFT-s-OFDM, 100% RB, 60 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.84	± 9.6 %
10927	AAB	5G NR (DFT-s-OFDM, 100% RB, 80 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	5.94	± 9.6 %
10928	AAC	5G NR (DFT-s-OFDM, 1 RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10929	AAC	5G NR (DFT-s-OFDM, 1 RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10930	AAC	5G NR (DFT-s-OFDM, 1 RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.52	± 9.6 %
10931	AAC	5G NR (DFT-s-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10932	AAC	5G NR (DFT-s-OFDM, 1 RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10933	AAC	5G NR (DFT-s-OFDM, 1 RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10934	AAC	5G NR (DFT-s-OFDM, 1 RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10935	AAD	5G NR (DFT-s-OFDM, 1 RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.51	± 9.6 %
10936	AAC	5G NR (DFT-s-OFDM, 50% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10937	AAC	5G NR (DFT-s-OFDM, 50% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.77	± 9.6 %
10938	AAC	5G NR (DFT-s-OFDM, 50% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.90	± 9.6 %
10939	AAC	5G NR (DFT-s-OFDM, 50% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.82	± 9.6 %
10940	AAC	5G NR (DFT-s-OFDM, 50% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.89	± 9.6 %
10941	AAC	5G NR (DFT-s-OFDM, 50% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10942	AAC	5G NR (DFT-s-OFDM, 50% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10943	AAD	5G NR (DFT-s-OFDM, 50% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.95	± 9.6 %
10944	AAC	5G NR (DFT-s-OFDM, 100% RB, 5 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.81	± 9.6 %
10945	AAC	5G NR (DFT-s-OFDM, 100% RB, 10 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.85	± 9.6 %
10946	AAC	5G NR (DFT-s-OFDM, 100% RB, 15 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.83	± 9.6 %
10947	AAC	5G NR (DFT-s-OFDM, 100% RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10948	AAC	5G NR (DFT-s-OFDM, 100% RB, 25 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10949	AAC	5G NR (DFT-s-OFDM, 100% RB, 30 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.87	± 9.6 %
10950	AAC	5G NR (DFT-s-OFDM, 100% RB, 40 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.94	± 9.6 %
10951	AAD	5G NR (DFT-s-OFDM, 100% RB, 50 MHz, QPSK, 15 kHz)	5G NR FR1 FDD	5.92	± 9.6 %
10952	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.25	± 9.6 %
10953	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.15	± 9.6 %
10954	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.23	± 9.6 %
10955	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 FDD	8.42	± 9.6 %
10956	AAA	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.14	± 9.6 %
10957	AAA	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.31	± 9.6 %
10958	AAA	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.61	± 9.6 %
10959	AAA	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 FDD	8.33	± 9.6 %
10960	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.32	± 9.6 %
10961	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.36	± 9.6 %
10962	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.40	± 9.6 %
10963	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10964	AAC	5G NR DL (CP-OFDM, TM 3.1, 5 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.29	± 9.6 %
10965	AAB	5G NR DL (CP-OFDM, TM 3.1, 10 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.37	± 9.6 %
10966	AAB	5G NR DL (CP-OFDM, TM 3.1, 15 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.55	± 9.6 %
10967	AAB	5G NR DL (CP-OFDM, TM 3.1, 20 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.42	± 9.6 %
10968	AAB	5G NR DL (CP-OFDM, TM 3.1, 100 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.49	± 9.6 %
10972	AAB	5G NR (CP-OFDM, 1 RB, 20 MHz, QPSK, 15 kHz)	5G NR FR1 TDD	11.59	± 9.6 %
10973	AAB	5G NR (DFT-s-OFDM, 1 RB, 100 MHz, QPSK, 30 kHz)	5G NR FR1 TDD	9.08	± 9.6 %
10974	AAB	5G NR (CP-OFDM, 100% RB, 100 MHz, 256-QAM, 30 kHz)	5G NR FR1 TDD	10.28	± 9.6 %
10976	AAA	ULLA BDR	ULLA	2.23	± 9.6 %
10979	AAA	ULLA HDR4	ULLA	7.02	± 9.6 %
10980	AAA	ULLA HDR8	ULLA	8.82	± 9.6 %
10981	AAA	ULLA HDRp4	ULLA	1.50	± 9.6 %
10982	AAA	ULLA HDRp8	ULLA	1.44	± 9.6 %
10983	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.31	± 9.6 %
10984	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 15 kHz)	5G NR FR1 TDD	9.42	± 9.6 %

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10985	AAA	5G NR DL (CP-OFDM, TM 3.1, 40 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.54	± 9.6 %
10986	AAA	5G NR DL (CP-OFDM, TM 3.1, 50 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.50	± 9.6 %
10987	AAA	5G NR DL (CP-OFDM, TM 3.1, 60 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.53	± 9.6 %
10988	AAA	5G NR DL (CP-OFDM, TM 3.1, 70 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.38	± 9.6 %
10989	AAA	5G NR DL (CP-OFDM, TM 3.1, 80 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.33	± 9.6 %
10990	AAA	5G NR DL (CP-OFDM, TM 3.1, 90 MHz, 64-QAM, 30 kHz)	5G NR FR1 TDD	9.52	± 9.6 %

Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.



**Appendix A.3 System Calibration certificate (5G Verification Source 10GHz\_SN1023)**

**Calibration Laboratory of  
 Schmid & Partner  
 Engineering AG**  
 Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst  
 S Service suisse d'étalonnage  
 S Servizio svizzero di taratura  
 S Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
 The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **KCTL (Dymstec)**

Certificate No: **5G-Veri10-1023\_Jan22**

CALIBRATION CERTIFICATE			
Object	5G Verification Source 10 GHz - SN: 1023		
Calibration procedure(s)	QA CAL-45.v3 Calibration procedure for sources in air above 6 GHz		
Calibration date:	January 20, 2022		
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.			
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.			
Calibration Equipment used (M&PE critical for calibration)			
Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Reference Probe EUMmWV3	SN: 9374	2021-12-21 (No. EUMmWV3-9374_Dec21)	Dec-22
DAE4ip	SN: 1602	2021-06-25 (No. DAE4ip-1602_Jun21)	Jun-22
Secondary Standards	ID #	Check Date (in house)	Scheduled Check
Calibrated by:	Name Leif Klysmar	Function Laboratory Technician	Signature 
Approved by:	Sven Kühn	Deputy Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: January 25, 2022

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

## Glossary

CW Continuous wave

## Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45-5Gsources
- IEC TR 63170 ED1, "Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz", January 2018

## Methods Applied and Interpretation of Parameters

- *Coordinate System:* z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and horn flange.
- *Measurement Conditions:* (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by far-field measurements. (2) 30, 45, 60 and 90 GHz: The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize reflections.
- *Horn Positioning:* The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- *E-field distribution:* E field is measured in two x-y-plane (10mm, 10mm +  $\lambda/4$ ) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-field-maxima and the averaged (1cm<sup>2</sup> and 4cm<sup>2</sup>) power density values at 10mm in front of the horn.
- *Field polarization:* Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

## Calibrated Quantity

- Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m<sup>2</sup>) averaged over the surface area of 1 cm<sup>2</sup> and 4cm<sup>2</sup> at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	cDASY6 Module mmWave	V2.4
Phantom	5G Phantom	
Distance Horn Aperture - plane	10 mm	
XY Scan Resolution	dx, dy = 7.5 mm	
Number of measured planes	2 (10mm, 10mm + $\lambda/4$ )	
Frequency	10 GHz $\pm$ 10 MHz	

### Calibration Parameters, 10 GHz

#### Circular Averaging

Distance Horn Aperture to Measured Plane	<i>Prad</i> <sup>1</sup> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	86.1	148	1.27 dB	54.7	51.5	1.28 dB

#### Square Averaging

Distance Horn Aperture to Measured Plane	<i>Prad</i> <sup>1</sup> (mW)	Max E-field (V/m)	Uncertainty (k = 2)	Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m <sup>2</sup> )		Uncertainty (k = 2)
				1 cm <sup>2</sup>	4 cm <sup>2</sup>	
10 mm	86.1	148	1.27 dB	54.7	51.4	1.28 dB

<sup>1</sup> Assessed ohmic and mismatch loss plus numerical offset: 0.55 dB

### DASY Report

#### Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

##### Device under Test Properties

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1023	-

##### Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

##### Hardware Setup

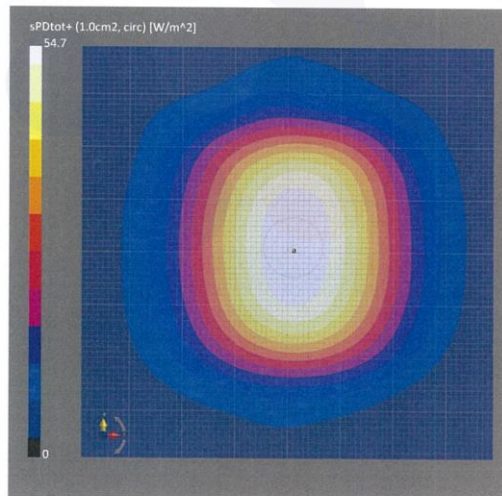
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2021-06-25

##### Scan Setup

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	MAIA not used

##### Measurement Results

	5G Scan
Date	2022-01-20, 12:28
Avg. Area [cm <sup>2</sup> ]	1.00
psPDn+ [W/m <sup>2</sup> ]	54.4
psPDtot+ [W/m <sup>2</sup> ]	54.7
psPDmod+ [W/m <sup>2</sup> ]	54.9
E <sub>max</sub> [V/m]	148
Power Drift [dB]	0.00



**DASY Report**

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

**Device under Test Properties**

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1023	-

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

**Hardware Setup**

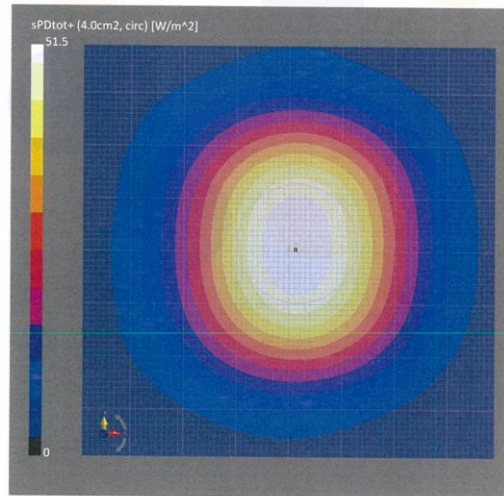
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2021-06-25

**Scan Setup**

	5G Scan
Grid Extents [mm]	120.0 x 120.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	10.0
MAIA	MAIA not used

**Measurement Results**

	5G Scan
Date	2022-01-20, 12:28
Avg. Area [cm <sup>2</sup> ]	4.00
psPDn+ [W/m <sup>2</sup> ]	51.2
psPDtot+ [W/m <sup>2</sup> ]	51.5
psPDmod+ [W/m <sup>2</sup> ]	51.7
E <sub>max</sub> [V/m]	148
Power Drift [dB]	0.00



**DASY Report**

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

**Device under Test Properties**

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1023	-

**Exposure Conditions**

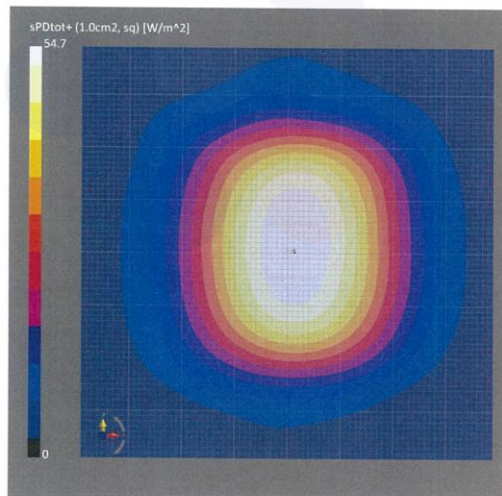
Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

**Hardware Setup**

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2021-06-25

**Scan Setup**

	5G Scan		5G Scan
Grid Extents [mm]	120.0 x 120.0	Date	2022-01-20, 12:28
Grid Steps [lambda]	0.25 x 0.25	Avg. Area [cm <sup>2</sup> ]	1.00
Sensor Surface [mm]	10.0	psPDn+ [W/m <sup>2</sup> ]	54.4
MAIA	MAIA not used	psPDtot+ [W/m <sup>2</sup> ]	54.7
		psPDmod+ [W/m <sup>2</sup> ]	54.9
		E <sub>max</sub> [V/m]	148
		Power Drift [dB]	0.00





**DASY Report**

**Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)**

**Device under Test Properties**

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
5G Verification Source 10 GHz	100.0 x 100.0 x 172.0	SN: 1023	-

**Exposure Conditions**

Phantom Section	Position, Test Distance [mm]	Band	Group,	Frequency [MHz], Channel Number	Conversion Factor
5G -	10.0 mm	Validation band	CW	10000.0, 10000	1.0

**Hardware Setup**

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave Phantom - 1002	Air	EUmmWV3 - SN9374_F1-55GHz, 2021-12-21	DAE4ip Sn1602, 2021-06-25

**Scan Setup**

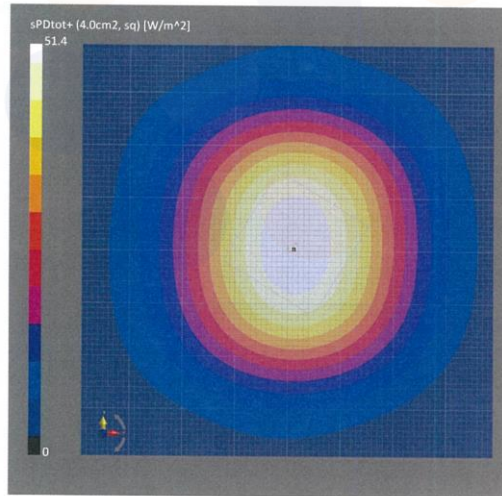
Grid Extents [mm]  
 Grid Steps [lambda]  
 Sensor Surface [mm]  
 MAIA

5G Scan  
 120.0 x 120.0  
 0.25 x 0.25  
 10.0  
 MAIA not used

**Measurement Results**

Date  
 Avg. Area [cm<sup>2</sup>]  
 psPDn+ [W/m<sup>2</sup>]  
 psPDtot+ [W/m<sup>2</sup>]  
 psPDmod+ [W/m<sup>2</sup>]  
 E<sub>max</sub> [V/m]  
 Power Drift [dB]

5G Scan  
 2022-01-20, 12:28  
 4.00  
 51.1  
 51.4  
 51.6  
 148  
 0.00



**Appendix A.4 Dipole Calibration certificate (D6.5GHzV2\_SN1005)**

**Calibration Laboratory of  
 Schmid & Partner  
 Engineering AG**  
 Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
 The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

Client **KCTL (Dymstec)**

Certificate No: **D6.5GHzV2-1005\_Apr22**

**CALIBRATION CERTIFICATE**

Object: **D6.5GHzV2 - SN:1005**

Calibration procedure(s): **QA CAL-22.v6  
 Calibration Procedure for SAR Validation Sources between 3-10 GHz**

Calibration date: **April 29, 2022**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility; environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&PE critical for calibration)

Primary Standards	ID #	Cal Date (Certificate No.)	Scheduled Calibration
Power sensor H&S NRP33T	SN: 103907	01-Apr-22 (No. 217-03526)	Apr-23
Reference 20 dB Attenuator	SN: RH9394 (20k)	04-Apr-22 (No. 217-03527)	Apr-23
Mismatch combination	SN: 84224 / 3500	26-Apr-21 (No. 217-03353)	Apr-24
Reference Probe EX3DV4	SN: 7405	31-Dec-21 (No. FX3-7405_Dec21)	Dec-22
DAF4	SN: 908	24-Jun-21 (No. DAE4-908_Jun21)	Jun-22

Secondary Standards	ID #	Check Date (in house)	Scheduled Check
HF generator Anapico APSIN20C	SN: 827	16-Dec-18 (in house check Dec-21)	In house check: Dec-23
Network Analyzer Keysight F5063A	SN:MY54504221	31-Oct-19 (in house check Oct-19)	In house check: Oct-22

Calibrated by: **Name: Lef Kysner, Function: Laboratory Technician, Signature: [Signature]**

Approved by: **Name: Sven Kohn, Function: Deputy Manager, Signature: [Signature]**

Issued: May 3, 2022

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

**Calibration Laboratory of  
Schmid & Partner  
Engineering AG**  
Zeughausstrasse 43, 8004 Zurich, Switzerland



**S** Schweizerischer Kalibrierdienst  
**C** Service suisse d'étalonnage  
**S** Servizio svizzero di taratura  
**S** Swiss Calibration Service

Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 0108**

**Glossary:**

TSL tissue simulating liquid  
ConvF sensitivity in TSL / NORM x,y,z  
N/A not applicable or not measured

**Calibration is Performed According to the Following Standards:**

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range Of 4 MHz To 10 GHz)", October 2020.

**Additional Documentation:**

- b) DASY System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.
- *The absorbed power density (APD):* The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

### Measurement Conditions

DASY system configuration, as far as not given on page 1.

DASY Version	DASY8	V16.0
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	5 mm	with Spacer
Zoom Scan Resolution	dx, dy = 3.4 mm, dz = 1.4 mm	Graded Ratio = 1.4 (Z direction)
Frequency	6500 MHz ± 1 MHz	

### Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	34.5	6.07 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	33.7 ± 6 %	6.08 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C	---	---

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	100 mW input power	27.8 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	277 W/kg ± 24.7 % (k=2)

SAR averaged over 8 cm <sup>3</sup> (8 g) of Head TSL	Condition	
SAR measured	100 mW input power	6.26 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	62.2 W/kg ± 24.4 % (k=2)

SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	100 mW input power	5.13 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	51.0 W/kg ± 24.4 % (k=2)

**Appendix**

**Antenna Parameters with Head TSL**

Impedance, transformed to feed point	54.7 $\Omega$ - 1.2 $j\Omega$
Return Loss	- 26.7 dB

**APD (Absorbed Power Density)**

APD averaged over 1 cm <sup>2</sup>	Condition	
APD measured	100 mW input power	276 W/m <sup>2</sup>
APD measured	normalized to 1W	2760 W/m <sup>2</sup> $\pm$ 29.2 % (k=2)

APD averaged over 4 cm <sup>2</sup>	condition	
APD measured	100 mW input power	125 W/m <sup>2</sup>
APD measured	normalized to 1W	1250 W/m <sup>2</sup> $\pm$ 26.9 % (k=2)

\*The reported APD values have been derived using psSAR8g.

**General Antenna Parameters and Design**

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

**Additional EUT Data**

Manufactured by	SPEAG
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**DASY6 Validation Report for Head TSL**

Measurement Report for D6.5GHz-1005, UID 0 -, Channel 6500 (6500.0MHz)

**Device under Test Properties**

Name, Manufacturer	Dimensions [mm]	IMEI	DUT Type
D6.5GHz	16.0 x 6.0 x 300.0	5N: 1005	-

**Exposure Conditions**

Phantom Section, TSL	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz]	Conversion Factor	TSL Cond. [S/m]	TSL Permittivity
Flat, HSL	5.00	Band	CW,	6500	5.75	6.08	33.7

**Hardware Setup**

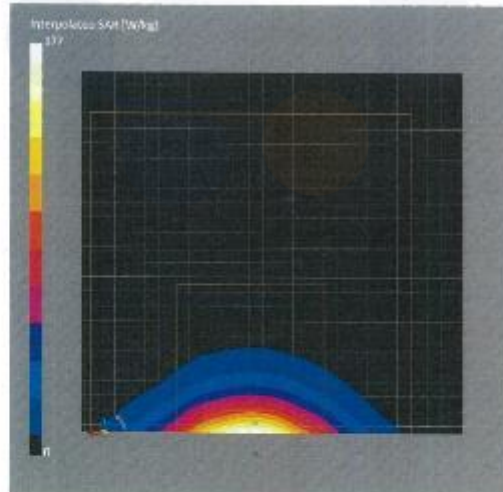
Phantom	TSL	Probe, Calibration Date	DAE, Calibration Date
MHP V8.0 Center - 1182	HBBL600-1000DV6	EX3DV4 - SN7405, 2021-12-31	DAE4 Sn908, 2021-06-24

**Scan Setup**

	Zoom Scan
Grid Extents [mm]	22.0 x 22.0 x 22.0
Grid Steps [mm]	3.4 x 3.4 x 1.4
Sensor Surface [mm]	1.4
Graded Grid	Yes
Grading Ratio	1.4
MAIA	N/A
Surface Detection	VMS + 6p
Scan Method	Measured

**Measurement Results**

	Zoom Scan
Date	2022-04-29, 13:58
psSAR1g [W/Kg]	27.8
psSAR8g [W/Kg]	6.26
psSAR10g [W/Kg]	5.13
Power Drift [dB]	0.03
Power Scaling	Disabled
Scaling Factor [dB]	
ISL Correction	No correction
M2/M1 [%]	50.3
Dist 3dB Peak [mm]	4.8



**Impedance Measurement Plot for Head TSL**

