

EX3DV4 - SN:7346

March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (uV/V/m) ²	0.46	0.47	0.61	± 10.1 %
DCP (mV) ³	101.4		106.9	

Calibration Results for Modulation Response

UID	Communication System Name	A dB	B dB-µV	C dB	D dB	VR mV	Max dev.	Max Unc ¹ (k=2)
0	CW	X 0.00 0.00 1.00 0.00 143.5 ± 3.0 %	Y 0.00 0.00 1.00 139.3	Z 0.00 0.00 1.00 138.0				
1003-AAA	Pulse Waveform (200Hz, 10%)	X 3.33 68.90 11.66 10.00 60.0 ± 3.5 %	Y 4.03 70.70 12.35 60.0	Z 1.63 61.25 6.76 60.0			± 9.6 %	
1003-AAA	Pulse Waveform (200Hz, 20%)	X 3.00 70.65 11.31 6.99 60.0 ± 2.4 %	Y 11.51 81.32 14.72 85.0	Z 0.83 60.00 5.11 85.0			± 9.6 %	
1004-AAA	Pulse Waveform (200Hz, 40%)	X 7.41 79.85 12.51 3.98 95.0 ± 2.7 %	Y 26.00 81.62 15.51 95.0	Z 0.18 138.38 0.01 95.0			± 9.6 %	
1005-AAA	Pulse Waveform (200Hz, 60%)	X 2.27 71.13 9.52 2.22 120.0 ± 1.7 %	Y 20.00 91.58 16.29 120.0	Z 7.84 138.51 16.87 120.0			± 9.6 %	
1006-AAA	GRSK Waveform, 1 MHz	X 1.47 64.88 13.82 1.00 150.0 ± 4.2 %	Y 0.96 66.37 14.65 0.00 150.0	Z 0.45 61.88 11.05 0.00 150.0			± 9.6 %	
1008-AAA	GRSK Waveform, 10 MHz	X 0.46 67.33 15.38 0.00 150.0 ± 1.1 %	Y 2.06 67.33 15.38 0.00 150.0	Z 2.41 64.72 15.99 0.00 150.0			± 9.6 %	
1009-AAA	64-QAM Waveform, 100 kHz	X 2.63 68.51 16.25 3.01 150.0 ± 1.0 %	Y 1.70 64.72 15.99 0.00 150.0	Z 0.38 66.82 15.25 0.00 150.0			± 9.6 %	
1009-AAA	64-QAM Waveform, 40 MHz	X 2.70 65.72 14.74 0.00 150.0 ± 2.0 %	Y 4.11 65.35 15.27 0.00 150.0	Z 4.70 65.54 15.41 0.00 150.0			± 9.6 %	
1014-AAA	WLAN CCK4, 64-QAM, 40MHz	X 3.83 66.18 15.28 0.00 150.0						

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%.

¹ The uncertainties of Norm X,Y,Z do not affect the E-field uncertainty inside TSL (see Pages 5 and 6).

² Numerical limitation parameter, uncertainty not required.

³ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

Certificate No: EX3-7346_Mar22

Page 3 of 24

EX3DV4 - SN:7346

March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Sensor Model Parameters

	C1	C2	a	T1	T2	T3	T4	T5	T6
IP	IP	V ¹	ms.V ¹	ms.V ¹	ms	V ¹	V ¹	V ¹	V ¹
X	59.3	291.80	35.10	5.63	0.03	5.02	1.42	0.12	1.01
Y	37.1	270.84	34.12	6.29	0.00	5.01	1.82	0.05	1.01
Z	9.7	69.74	33.37	4.96	0.00	4.94	0.61	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-166.1
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.

Certificate No: EX3-7346_Mar22

Page 4 of 34

EX3DV4 - SN:7346

March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz)	Relative Permittivity ¹	Conductivity (S/m) ²	ConvF X	ConvF Y	ConvF Z	Alpha ³	Depth ⁴ (mm)	Unc (k=2)
750	41.9	0.89	10.56	10.56	10.56	0.55	0.85	± 12.0 %
835	41.5	0.90	10.12	10.12	10.12	0.42	0.96	± 12.0 %
900	41.5	0.97	10.10	10.10	10.10	0.53	0.80	± 12.0 %
1450	40.5	1.20	9.26	9.26	9.26	0.50	0.80	± 12.0 %
1750	40.1	1.37	8.83	8.83	8.83	0.34	0.86	± 12.0 %
1900	40.0	1.40	8.48	8.48	8.48	0.35	0.86	± 12.0 %
2000	40.0	1.40	8.35	8.35	8.35	0.34	0.86	± 12.0 %
2200	39.5	1.67	7.86	7.86	7.86	0.39	0.90	± 12.0 %
2450	39.2	1.80	7.63	7.63	7.63	0.41	0.90	± 12.0 %
2800	39.0	1.96	7.33	7.33	7.33	0.44	0.90	± 12.0 %
3200	38.2	2.71	7.15	7.15	7.15	0.30	1.35	± 13.1 %
3500	37.8	2.81	7.14	7.14	7.14	0.30	1.35	± 13.1 %
3700	37.7	3.12	6.85	6.85	6.85	0.30	1.35	± 13.1 %
3900	37.5	3.32	6.71	6.71	6.71	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.58	6.58	6.58	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.30	6.30	6.30	0.40	1.70	± 13.1 %
4400	36.9	3.84	6.24	6.24	6.24	0.40	1.70	± 13.1 %
4600	36.7	4.04	6.11	6.11	6.11	0.40	1.70	± 13.1 %
4800	36.4	4.25	6.08	6.08	6.08	0.40	1.80	± 13.1 %
4950	36.3	4.40	5.84	5.84	5.84	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.25	5.25	5.25	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.12	5.12	5.12	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.75	4.75	4.75	0.40	1.80	± 13.1 %

¹ Frequency validity above 300 MHz is ± 100 MHz only applies for DASY v4.4 and higher (see Page 2); else it is restricted to ± 50 MHz. 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, ± 50 and ± 70 MHz for ConvF assessments at 50, 60, 128, 160 and 200 MHz respectively. Validity of ConvF assessment at 60 MHz is 5% and ConvF assessment at 128 MHz is 10%. The validity of tissue parameters (ρ and σ) can be related to ± 10% if liquid compensation formula is applied to measured S₂₁ values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

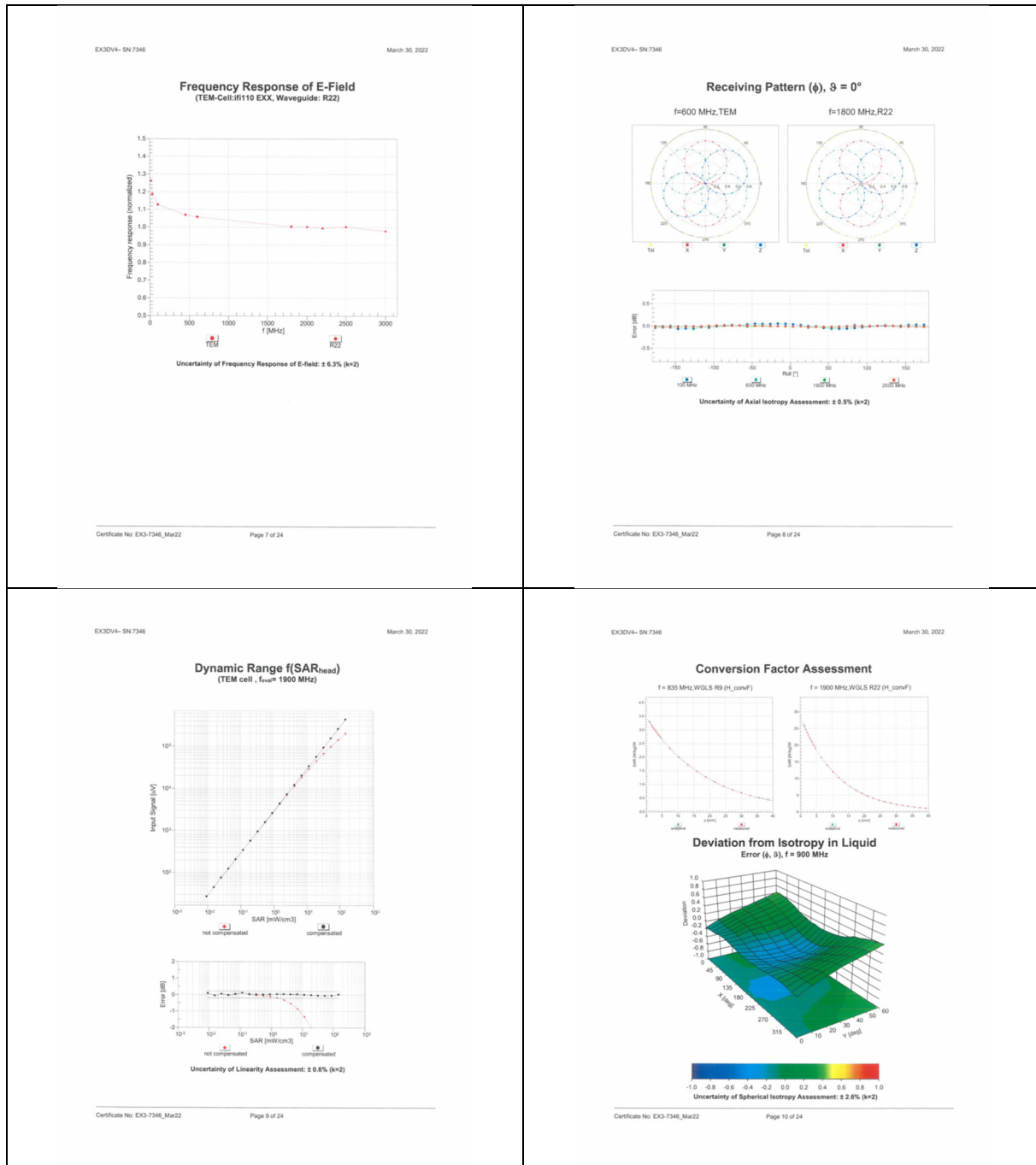
² Alpha/Depth are determined during calibration. SPCAD warns that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the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

Certificate No: EX3-7346_Mar22

Page 5 of 24

Certificate No: EX3-7346_Mar22

Page 6 of 24





EKC3V4-SN-7346		March 30, 2022		EKC3V4-SN-7346		March 30, 2022	
Appendix: Modulation Calibration Parameters							
UID	Rev	Communication System Name	Group	Freq (MHz)	Unit		
0	0	CW	CW	0.00	±4.7%		
10019	CAA	SAR Validation (Square, 100m, 10m)	Test	10.00	±9.6%		
10011	CAB	LIMITS FDD (WCDMA)	WCDMA	2.91	±9.6%		
10012	CAB	IEEE 802.11b WIF 2.4 GHz (GSSS, 1 Mbps)	WLAN	1.87	±9.6%		
10013	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS-OFDM, 6 Mbps)	WLAN	9.46	±9.6%		
10012	DAC	GPRS-FDD (TDMA, GSM)	GSM	9.39	±9.6%		
10023	DAC	GPRS-FDD (TDMA, GSM, TN-0)	GSM	9.37	±9.6%		
10024	DAC	GPRS-FDD (TDMA, GSM, TN-0-1)	GSM	6.56	±9.6%		
10025	DAC	EDGE-FDD (TDMA, BPSK, TN-0)	GSM	12.62	±9.6%		
10026	DAC	EDGE-FDD (TDMA, BPSK, TN-0-1)	GSM	9.55	±9.6%		
10027	DAC	GPRS-FDD (TDMA, GSM, TN-0-2)	GSM	4.80	±9.6%		
10028	DAC	GPRS-FDD (TDMA, GSM, TN-0-2-3)	GSM	3.50	±9.6%		
10029	DAC	EDGE-FDD (TDMA, BPSK, TN-0-3)	GSM	7.78	±9.6%		
10033	CAA	IEEE 802.15.1 Bluetooth (GFSK, DSSS)	Bluetooth	5.20	±9.6%		
10031	CAA	IEEE 802.15.1 Bluetooth (GFSK, DSSS)	Bluetooth	1.87	±9.6%		
10032	CAA	IEEE 802.15.1 Bluetooth (GFSK, DSSS)	Bluetooth	1.16	±9.6%		
10033	CAA	IEEE 802.15.1 Bluetooth (P4-DQPSK, DSSS)	Bluetooth	7.14	±9.6%		
10034	CAA	IEEE 802.15.1 Bluetooth (P4-DQPSK, DSSS)	Bluetooth	4.53	±9.6%		
10035	CAA	IEEE 802.15.1 Bluetooth (P4-DQPSK, DSSS)	Bluetooth	2.83	±9.6%		
10036	CAA	IEEE 802.15.1 Bluetooth (8-DQPSK, DSSS)	Bluetooth	8.01	±9.6%		
10037	CAA	IEEE 802.15.1 Bluetooth (8-DQPSK, DSSS)	Bluetooth	4.77	±9.6%		
10038	CAA	IEEE 802.15.1 Bluetooth (8-DQPSK, DSSS)	Bluetooth	4.10	±9.6%		
10039	CAB	COMMA2000 (LUTTI, RC)	COMMA2000	4.57	±9.6%		
10042	CAB	IS-54/IS-136 FDD (TDMA/TDMA, P4-DQPSK, HalfRate)	AMPS	7.78	±9.6%		
10044	CAA	IS-95/IS-136 FDD (TDMA, FSK)	AMPS	0.00	±9.6%		
10048	CAA	DECT (TDD, TDMA/FSK, GFSK, Full Rate, 12)	DECT	13.80	±9.6%		
10049	CAA	DECT (TDD, TDMA/FSK, GFSK, Double Rate, 12)	DECT	10.79	±9.6%		
10056	CAA	LIMITS-TDD (IS-54/IS-136, 1.2M)	TD-SCDMA	11.01	±9.6%		
10058	DAC	EDGE-FDD (TDMA, BPSK, TN-0-3-3)	GSM	6.82	±9.6%		
10059	CAB	IEEE 802.11b WIF 2.4 GHz (GSSS, 2 Mbps)	WLAN	2.12	±9.6%		
10060	CAB	IEEE 802.11b WIF 2.4 GHz (GSSS, 5.5 Mbps)	WLAN	2.80	±9.6%		
10061	CAB	IEEE 802.11b WIF 2.4 GHz (GSSS, 11 Mbps)	WLAN	3.60	±9.6%		
10062	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 6 Mbps)	WLAN	8.68	±9.6%		
10063	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 9 Mbps)	WLAN	8.63	±9.6%		
10064	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 12 Mbps)	WLAN	9.09	±9.6%		
10065	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 18 Mbps)	WLAN	9.00	±9.6%		
10066	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 24 Mbps)	WLAN	9.38	±9.6%		
10067	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 36 Mbps)	WLAN	10.12	±9.6%		
10068	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 48 Mbps)	WLAN	10.24	±9.6%		
10069	CAB	IEEE 802.11a WIF 5 GHz (OFDM, 54 Mbps)	WLAN	10.56	±9.6%		
10071	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 3 Mbps)	WLAN	8.88	±9.6%		
10072	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 12 Mbps)	WLAN	9.62	±9.6%		
10073	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 18 Mbps)	WLAN	9.94	±9.6%		
10074	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 24 Mbps)	WLAN	10.30	±9.6%		
10075	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 36 Mbps)	WLAN	10.77	±9.6%		
10076	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 48 Mbps)	WLAN	10.84	±9.6%		
10077	CAB	IEEE 802.11g WIF 2.4 GHz (GSSS/OFDM, 54 Mbps)	WLAN	11.00	±9.6%		
10081	CAB	COMMA2000 (LUTTI, RC)	COMMA2000	3.97	±9.6%		
10082	CAA	IS-54/IS-136 FDD (TDMA/TDMA, P4-DQPSK, FullRate)	AMPS	4.77	±9.6%		
10090	DAC	GPRS-FDD (TDMA, GSM, TN-0-4)	GSM	6.56	±9.6%		
10097	CAB	LIMITS FDD (HSPA)	WCDMA	3.98	±9.6%		
10098	CAB	LIMITS FDD (HSPA, Subnet 2)	WCDMA	3.98	±9.6%		
10099	DAC	EDGE-FDD (TDMA, BPSK, TN-0-4)	GSM	9.55	±9.6%		
10100	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.52	±9.6%		
10103	AAD	LTE-FDD (SC-FDMA, 1 RB, 15 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%		
10104	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-FDD	5.73	±9.6%		
10105	CAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-FDD	6.51	±9.6%		
10106	AAE	LTE-FDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-FDD	6.50	±9.6%		
10107	CAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	5.73	±9.6%		
10108	AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.52	±9.6%		
10109	AAE	LTE-FDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.50	±9.6%		
10110	CAE	IEEE 802.11n HT Overhead, 6.5 Mbps, BPSK	WLAN	8.09	±9.6%		
10114	CAE	IEEE 802.11n HT Overhead, 13 Mbps, BPSK	WLAN	8.12	±9.6%		
10115	CAE	IEEE 802.11n HT Overhead, 26 Mbps, BPSK	WLAN	8.21	±9.6%		
10116	CAE	IEEE 802.11n HT Mixed, 6.5 Mbps, BPSK	WLAN	8.10	±9.6%		
10117	CAE	IEEE 802.11n HT Mixed, 13 Mbps, BPSK	WLAN	8.13	±9.6%		
10118	CAE	IEEE 802.11n HT Mixed, 26 Mbps, BPSK	WLAN	8.27	±9.6%		
10119	CAE	IEEE 802.11n HT Mixed, 52 Mbps, BPSK	WLAN	8.03	±9.6%		
10120	CAE	IEEE 802.11n HT Mixed, 43.3 Mbps, 16-QAM	WLAN	8.13	±9.6%		
10121	CAE	IEEE 802.11n HT Mixed, 72.2 Mbps, 64-QAM	WLAN	8.27	±9.6%		
10122	CAE	IEEE 802.11n HT Mixed, 15 Mbps, BPSK	WLAN	8.06	±9.6%		
10123	CAE	IEEE 802.11n HT Mixed, 30 Mbps, BPSK	WLAN	8.49	±9.6%		
10124	CAE	IEEE 802.11n HT Mixed, 150 Mbps, 64-QAM	WLAN	8.08	±9.6%		
10125	CAB	LIMITS FDD (HSPA)	WCDMA	5.97	±9.6%		
10126	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.49	±9.6%		
10127	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.26	±9.6%		
10128	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, QPSK)	LTE-TDD	9.22	±9.6%		
10129	CAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM)	LTE-TDD	8.48	±9.6%		
10130	CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%		
10131	CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, QPSK)	LTE-TDD	9.19	±9.6%		
10132	CAB	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%		
10133	CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%		
10134	CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, QPSK)	LTE-TDD	9.21	±9.6%		
10135	CAB	LTE-TDD (SC-FDMA, 1 RB, 5 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%		
10136	CAB	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 64-QAM)	LTE-TDD	10.25	±9.6%		
10137	CAB	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, QPSK)	LTE-TDD	9.21	±9.6%		
10138	CAB	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 16-QAM)	LTE-TDD	9.48	±9.6%		
10139	CAF	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, QPSK)	LTE-TDD	10.25	±9.6%		
10140	CAF	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 16-QAM)	LTE-TDD	9.21	±9.6%		
10141	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.82	±9.6%		
10142	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-TDD	9.86	±9.6%		
10143	CAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-TDD	9.46	±9.6%		
10144	CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-TDD	10.06	±9.6%		
10145	CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-TDD	10.06	±9.6%		
10146	CAB	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-TDD	9.30	±9.6%		
10147	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-TDD	9.91	±9.6%		
10148	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-TDD	10.09	±9.6%		
10149	CAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-TDD	9.29	±9.6%		
10150	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-TDD	9.81	±9.6%		
10151	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-TDD	10.17	±9.6%		
10152	CAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-TDD	9.24	±9.6%		
10153	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 16-QAM)	LTE-TDD	9.80	±9.6%		
10154	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, 64-QAM)	LTE-TDD	10.14	±9.6%		
10155	CAF	LTE-TDD (SC-FDMA, 50% RB, 15 MHz, QPSK)	LTE-TDD	9.20	±9.6%		
10156	CAF	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-TDD	9.86	±9.6%		
10157	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-TDD	10.08	±9.6%		
10158	CAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-TDD	9.34	±9.6%		
10159	CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM)	LTE-TDD	9.96	±9.6%		
10160	CAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM)	LTE-TDD	9.87	±9.6%		
10161	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-FDD	5.67	±9.6%		
10162	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-FDD	6.42	±9.6%		
10163	CAE	LTE-FDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-FDD	6.60	±9.6%		
10164	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, QPSK)	LTE-TDD	9.29	±9.6%		
10165	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM)	LTE-TDD	9.97	±9.6%		
10166	CAE	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM)	LTE-TDD	10.01	±9.6%		
10167	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, QPSK)	LTE-FDD	5.80	±9.6%		
10168	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%		
10169	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	5.75	±9.6%		
10170	CAE	LTE-FDD (SC-FDMA, 100% RB, 5 MHz, 16-QAM)	LTE-FDD	6.44	±9.6%		
10171	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM)	LTE-FDD	6.59	±9.6%		
10172	CAE	LTE-FDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM)	LTE-FDD	6.62	±9.6%		
10173	CAE	IEEE 802.11n HT Overhead, 6.5 Mbps, BPSK	WLAN	8.10	±9.6%		
10174	CAE	IEEE 802.11n HT Overhead, 13 Mbps, BPSK	WLAN	8.12	±9.6%		
10175	CAE	IEEE 802.11n HT Overhead, 26 Mbps, BPSK	WLAN	8.46	±9.6%		
10176	CAE	IEEE 802.11n HT Overhead, 135 Mbps, 64-QAM	WLAN	8.15	±9.6%		
10177	CAE	IEEE 802.11n HT Mixed, 13.5 Mbps, BPSK	WLAN	8.07	±9.6%		
10178	CAE	IEEE 802.11n HT Mixed, 27 Mbps, BPSK	WLAN	8.09	±9.6%		
10179	CAE	IEEE 802.11n HT Mixed, 54 Mbps, BPSK	WLAN	8.13	±9.6%		
10180	CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, QPSK)	LTE-FDD	5.76	±9.6%		
10181	CAE	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.41	±9.6%		
10182	CAF	LTE-FDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM)	LTE-FDD	6.72	±9.6%		
10183	CAF	LTE-FDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%		
10184	CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, QPSK)	LTE-TDD	9.28	±9.6%		
10185	CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 16-QAM)	LTE-TDD	9.98	±9.6%		
10186	CAF	LTE-TDD (SC-FDMA, 50% RB, 20 MHz, 64-QAM)	LTE-TDD	10.05	±9.6%		
10187	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, QPSK)	LTE-FDD	5.76	±9.6%		
10188	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM)	LTE-FDD	6.43	±9.6%		
10189	CAF	LTE-FDD (SC-FDMA, 50% RB, 10 MHz, 64-QAM)	LTE-FDD	5.73	±9.6%		
10190	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, QPSK)	LTE-FDD	5.79	±9.6%		
10191	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%		
10192	CAF	LTE-FDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM)	LTE-FDD	6.62	±9.6%		
10193	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, QPSK)	LTE-FDD	5.66	±9.6%		
10194	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM)	LTE-FDD	5.82	±9.6%		
10195	CAF	LTE-FDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM)	LTE-FDD	6.43	±9.6%		
10196	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, QPSK)	LTE-FDD	5.73	±9.6%		
10197	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%		
10198	CAF	LTE-FDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM)	LTE-FDD	5.73	±9.6%		
10199	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, QPSK)	LTE-FDD	6.32	±9.6%		
10200	CAF	LTE-FDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM)	LTE-FDD	6.49	±9.6%	</	



EX3034-SN-7346				March 30, 2022				EX3034-SN-7346				March 30, 2022			
10414	AAA	WLAN CDP, 64-QAM, 40MHz	Generic	8.54	± 0.6 %			10489	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.31	± 0.6 %		
10415	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 1 Mbps, WEP, cc)	WLAN	1.54	± 0.6 %			10490	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.34	± 0.6 %		
10416	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS, 54 Mbps, WEP, cc)	WLAN	8.23	± 0.6 %			10491	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	7.74	± 0.6 %		
10417	AAC	IEEE 802.11n WFI 5 GHz (OFDM, 6 Mbps, WEP, cc)	WLAN	8.23	± 0.6 %			10492	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.41	± 0.6 %		
10418	AAA	IEEE 802.11n WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, WEP, Long)	WLAN	8.14	± 0.6 %			10493	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.55	± 0.6 %		
10419	AAA	IEEE 802.11g WFI 2.4 GHz (DSSS-OFDM, 6 Mbps, WEP, Short)	WLAN	8.19	± 0.6 %			10494	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	7.74	± 0.6 %		
10420	AAC	IEEE 802.11n HT Overhead, 7.2 Mbps, WEP, cc)	WLAN	8.32	± 0.6 %			10495	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.37	± 0.6 %		
10421	AAC	IEEE 802.11n HT Overhead, 6.3 Mbps, 16-QAM, UL, Sub)	WLAN	8.47	± 0.6 %			10496	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.54	± 0.6 %		
10424	AAC	IEEE 802.11n HT Overhead, 7.2 Mbps, 64-QAM, UL, Sub)	WLAN	8.40	± 0.6 %			10497	AAB	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	7.67	± 0.6 %		
10425	AAC	IEEE 802.11n HT Overhead, 18 Mbps, WEP, cc)	WLAN	8.41	± 0.6 %			10498	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.40	± 0.6 %		
10428	AAC	IEEE 802.11n HT Overhead, 80 Mbps, 16-QAM, UL, Sub)	WLAN	8.45	± 0.6 %			10499	AAB	LTE-TDD (SC-FDMA, 100% RB, 1.4 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.68	± 0.6 %		
10427	AAC	IEEE 802.11n HT Overhead, 150 Mbps, WEP, cc)	WLAN	8.41	± 0.6 %			10500	AAB	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, WEP, cc)	LTE-TDD	7.67	± 0.6 %		
10430	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1)	LTE-FDD	8.28	± 0.6 %			10501	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.44	± 0.6 %		
10431	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1)	LTE-FDD	8.38	± 0.6 %			10502	AAC	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.52	± 0.6 %		
10432	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1)	LTE-FDD	8.34	± 0.6 %			10503	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, WEP, UL, Sub)	LTE-TDD	7.72	± 0.6 %		
10433	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1)	LTE-FDD	8.34	± 0.6 %			10504	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.31	± 0.6 %		
10434	AAA	WCDMA (BS Test Model 1, 64 DPH)	WCDMA	8.60	± 0.6 %			10505	AAF	LTE-TDD (SC-FDMA, 100% RB, 3 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.31	± 0.6 %		
10435	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10506	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, WEP, UL, Sub)	LTE-TDD	7.74	± 0.6 %		
10437	AAD	LTE-FDD (OFDMA, 5 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.56	± 0.6 %			10507	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.36	± 0.6 %		
10448	AAD	LTE-FDD (OFDMA, 10 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.53	± 0.6 %			10508	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.35	± 0.6 %		
10449	AAC	LTE-FDD (OFDMA, 15 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.51	± 0.6 %			10509	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, WEP, UL, Sub)	LTE-TDD	7.99	± 0.6 %		
10450	AAC	LTE-FDD (OFDMA, 20 MHz, E-TM 3.1, Clipping 44%)	LTE-FDD	7.48	± 0.6 %			10510	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.49	± 0.6 %		
10451	AAA	WCDMA (BS Test Model 1, 64 DPH, Clipping 44%)	WCDMA	7.59	± 0.6 %			10511	AAF	LTE-TDD (SC-FDMA, 100% RB, 10 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.51	± 0.6 %		
10453	AAD	Validation (Square, 10ms, 1ms)	Test	10.00	± 0.6 %			10512	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, WEP, UL, Sub)	LTE-TDD	7.74	± 0.6 %		
10458	AAC	IEEE 802.11a WFI (160MHz, 64-QAM, WEP, cc)	WLAN	8.63	± 0.6 %			10513	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.42	± 0.6 %		
10457	AAA	UMTS FDD (SC-HSPA)	WCDMA	6.62	± 0.6 %			10514	AAF	LTE-TDD (SC-FDMA, 100% RB, 20 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.45	± 0.6 %		
10458	AAA	CDMA2000 (1xEV-DO, Rev. B, 3.1c)	CDMA2000	6.55	± 0.6 %			10515	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 2 Mbps, WEP, cc)	WLAN	1.58	± 0.6 %		
10459	AAA	CDMA2000 (1xEV-DO, Rev. B, 3.1c)	CDMA2000	8.25	± 0.6 %			10516	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 5.5 Mbps, WEP, cc)	WLAN	1.57	± 0.6 %		
10460	AAA	UMTS FDD (WCDMA, AUR)	WCDMA	2.39	± 0.6 %			10517	AAA	IEEE 802.11b WFI 2.4 GHz (DSSS, 11 Mbps, WEP, cc)	WLAN	1.58	± 0.6 %		
10461	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10518	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 9 Mbps, WEP, cc)	WLAN	8.23	± 0.6 %		
10462	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.30	± 0.6 %			10519	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 12 Mbps, WEP, cc)	WLAN	8.39	± 0.6 %		
10463	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.36	± 0.6 %			10520	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 18 Mbps, WEP, cc)	WLAN	8.12	± 0.6 %		
10464	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10521	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 24 Mbps, WEP, cc)	WLAN	7.97	± 0.6 %		
10465	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.32	± 0.6 %			10522	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 36 Mbps, WEP, cc)	WLAN	8.45	± 0.6 %		
10466	AAC	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.37	± 0.6 %			10523	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 48 Mbps, WEP, cc)	WLAN	8.48	± 0.6 %		
10467	AAF	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10524	AAC	IEEE 802.11a WFI 5 GHz (OFDM, 54 Mbps, WEP, cc)	WLAN	8.27	± 0.6 %		
10468	AAF	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.32	± 0.6 %			10525	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.36	± 0.6 %		
10469	AAF	LTE-TDD (SC-FDMA, 1 RB, 3 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.56	± 0.6 %			10526	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.42	± 0.6 %		
10470	AAF	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10527	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.21	± 0.6 %		
10471	AAF	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.32	± 0.6 %			10528	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.36	± 0.6 %		
10472	AAF	LTE-TDD (SC-FDMA, 1 RB, 18 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.57	± 0.6 %			10529	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.36	± 0.6 %		
10473	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, WEP, UL, Sub)	LTE-TDD	7.82	± 0.6 %			10530	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.36	± 0.6 %		
10474	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.32	± 0.6 %			10532	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.29	± 0.6 %		
10475	AAB	LTE-TDD (SC-FDMA, 1 RB, 1.4 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.57	± 0.6 %			10533	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.38	± 0.6 %		
10476	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.32	± 0.6 %			10534	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.45	± 0.6 %		
10477	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.57	± 0.6 %			10535	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.45	± 0.6 %		
10478	AAF	LTE-TDD (SC-FDMA, 1 RB, 20 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.57	± 0.6 %			10536	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.45	± 0.6 %		
10479	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, WEP, UL, Sub)	LTE-TDD	7.74	± 0.6 %			10538	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.32	± 0.6 %		
10480	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.18	± 0.6 %			10537	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.44	± 0.6 %		
10481	AAB	LTE-TDD (SC-FDMA, 50% RB, 1.4 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.45	± 0.6 %			10538	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.39	± 0.6 %		
10482	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, WEP, UL, Sub)	LTE-TDD	7.71	± 0.6 %			10540	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.39	± 0.6 %		
10483	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.39	± 0.6 %			10541	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.45	± 0.6 %		
10484	AAC	LTE-TDD (SC-FDMA, 50% RB, 3 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.47	± 0.6 %			10542	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.65	± 0.6 %		
10485	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, WEP, UL, Sub)	LTE-TDD	7.59	± 0.6 %			10543	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.65	± 0.6 %		
10486	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 16-QAM, UL, Sub)	LTE-TDD	8.38	± 0.6 %			10544	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.65	± 0.6 %		
10487	AAF	LTE-TDD (SC-FDMA, 50% RB, 5 MHz, 64-QAM, UL, Sub)	LTE-TDD	8.60	± 0.6 %			10545	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.55	± 0.6 %		
10488	AAF	LTE-TDD (SC-FDMA, 50% RB, 10 MHz, WEP, UL, Sub)	LTE-TDD	7.70	± 0.6 %			10546	AAC	IEEE 802.11a WFI (20MHz, MCS1, WEP, cc)	WLAN	8.35	± 0.6 %		

Confidentiality: EX-7346_Mar22 Page 15 of 24

EX3034-SN-7346				March 30, 2022				EX3034-SN-7346				March 30, 2022			
10547	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.49	± 0.6 %			10605	AAC	IEEE 802.11n HT MIMO, 40MHz, MCS1, WEP, cc)	WLAN	8.97	± 0.6 %		
10548	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.37	± 0.6 %			10606	AAC	IEEE 802.11n HT MIMO, 40MHz, MCS1, WEP, cc)	WLAN	8.82	± 0.6 %		
10550	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.39	± 0.6 %			10607	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.96	± 0.6 %		
10551	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.50	± 0.6 %			10608	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.77	± 0.6 %		
10552	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.42	± 0.6 %			10609	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.57	± 0.6 %		
10553	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.45	± 0.6 %			10610	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.78	± 0.6 %		
10554	AAD	IEEE 802.11a WFI (160MHz, MCS1, WEP, cc)	WLAN	8.48	± 0.6 %			10611	AAC	IEEE 802.11a WFI (80MHz, MCS1, WEP, cc)	WLAN	8.70	± 0.6 %		
10555	AAD	<													


 Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that the information contained herein reflects the Company's findings at the time of its intervention only and within the limits of its Client's instructions, if any. The Company's sole responsibility is to its Client and this document is not intended to constitute a contract entered from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this report refer only to the sample(s) tested and such sample(s) tested and analyzed in accordance with the relevant standards. **Attention:** To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No. 10, Weiyue Road, Innovation Park, Kunshan, Jiangsu, China 215300
 中国·江苏·昆山市留学院创业园伟业路10号 邮编 215300
 Compliance & Certification Services (Kunshan) | (86-512) 5735888 | (86-512) 57370818 | www.sgsgroup.com.cn
 EMC Laboratory | (86-512) 5735888 | (86-512) 57370818 | sgs.china@sgs.com

EXC344-SN 7346		March 30, 2022			
15985	AAA	SG NR DL (CP-QPDM, TM 3.1, 40 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.54	± 0.6 %
15986	AAA	SG NR DL (CP-QPDM, TM 3.1, 50 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.50	± 0.6 %
15987	AAA	SG NR DL (CP-QPDM, TM 3.1, 60 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.53	± 0.6 %
15988	AAA	SG NR DL (CP-QPDM, TM 3.1, 70 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.38	± 0.6 %
15989	AAA	SG NR DL (CP-QPDM, TM 3.1, 80 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.33	± 0.6 %
15990	AAA	SG NR DL (CP-QPDM, TM 3.1, 90 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.52	± 0.6 %

¹ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

EXC344-SN 7346		March 30, 2022			
15985	AAA	SG NR DL (CP-QPDM, TM 3.1, 40 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.54	± 0.6 %
15986	AAA	SG NR DL (CP-QPDM, TM 3.1, 50 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.50	± 0.6 %
15987	AAA	SG NR DL (CP-QPDM, TM 3.1, 60 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.53	± 0.6 %
15988	AAA	SG NR DL (CP-QPDM, TM 3.1, 70 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.38	± 0.6 %
15989	AAA	SG NR DL (CP-QPDM, TM 3.1, 80 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.33	± 0.6 %
15990	AAA	SG NR DL (CP-QPDM, TM 3.1, 90 MHz, 64-QAM, 30 MHz)	SG NR FR1 TDD	9.52	± 0.6 %

Certificate No: EX3-7346_Mar22

Page 24 of 24

 EXC344-SN 7346 March 30, 2022 | | | | | | | |-------|-----|--|---------------|------|---------| | 15985 | AAA | SG NR DL (CP-QPDM, TM 3.1, 40 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.54 | ± 0.6 % | | 15986 | AAA | SG NR DL (CP-QPDM, TM 3.1, 50 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.50 | ± 0.6 % | | 15987 | AAA | SG NR DL (CP-QPDM, TM 3.1, 60 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.53 | ± 0.6 % | | 15988 | AAA | SG NR DL (CP-QPDM, TM 3.1, 70 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.38 | ± 0.6 % | | 15989 | AAA | SG NR DL (CP-QPDM, TM 3.1, 80 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.33 | ± 0.6 % | | 15990 | AAA | SG NR DL (CP-QPDM, TM 3.1, 90 MHz, 64-QAM, 30 MHz) | SG NR FR1 TDD | 9.52 | ± 0.6 % | ¹ Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value. Certificate No: EX3-7346_Mar22 Page 24 of 24 |

4 Impedance and return loss

Dipole CLA150 SN 4025				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/4/26	-31.4	/	47.8	/
Dipole D450V3 SN 1103				
Head Liquid				
Date of Measurement	Return Loss(dB)	Δ %	Impedance (Ω)	ΔΩ
2021/4/21	-23	/	57.1	/



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.10, Weyue Road, Innovation Park, Kunshan, Jiangsu, China 215300
中国·江苏·昆山市留学生创业园伟业路10号 邮编 215300

†(86-512)57355888 †(86-512)57370818 www.sgsgroup.com.cn
†(86-512)57355888 †(86-512)57370818 sgs.china@sgs.com