

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL102915\
 Data File : VL026263.D
 Acq On : 29 Oct 2015 11:19
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Mmdadoda
 10/30/2015 12:06:34 PM

Quant Time: Oct 29 14:12:38 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL102915AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 29 14:12:38 2015
 QLast Update : Thu Oct 29 12:16:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.68	49	583088	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	1622290	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.79	117	1879001	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.33	95	1452230	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	68662	0.57	ppbv	98
3) Chlorodifluoromethane	3.59	51	40467	0.55	ppbv	99
4) Chloromethane	3.78	50	22141	0.54	ppbv	93
5) Vinyl Chloride	3.91	62	21326	0.50	ppbv	95
6) Bromomethane	4.17	94	16008	0.53	ppbv	99
7) Chloroethane	4.27	64	9827	0.55	ppbv	95
8) Dichlorotetrafluoroethane	3.83	85	57648	0.55	ppbv	97
9) Propene	3.62	41	19255	0.55	ppbv	95
10) Heptane	9.39	43	61325	0.51	ppbv	99
11) Trichlorofluoromethane	4.72	101	62953	0.53	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	5.34	101	42639	0.53	ppbv	100
13) Ethanol	4.39	45	2803	0.57	ppbv	72
14) Bromoethene	4.48	108	17373	0.52	ppbv	98
15) Acetone	4.65	43	43731	0.53	ppbv #	81
16) 1,3-Butadiene	4.00	39	19635	0.51	ppbv	97
17) tert-Butyl alcohol	5.20	59	25876m	0.45	ppbv	
18) 1,1-Dichloroethene	5.12	96	19091	0.53	ppbv	99
19) Isopropyl Alcohol	4.82	45	15012	0.46	ppbv #	23
20) Methylene Chloride	5.18	84	18632	0.55	ppbv	100
21) Allyl Chloride	5.26	41	28501	0.51	ppbv	92
22) trans-1,2-Dichloroethene	5.79	96	24354	0.51	ppbv	94
23) Vinyl Acetate	6.03	43	71041	0.46	ppbv #	95
24) 1,1-Dichloroethane	5.94	63	52828	0.52	ppbv	98
25) Ethyl Acetate	6.73	43	83542	0.52	ppbv	100
26) Hexane	6.70	57	40631	0.51	ppbv	98
27) Carbon Disulfide	5.42	76	45167	0.46	ppbv #	82
28) Methyl tert-Butyl Ether	6.01	73	67622	0.47	ppbv	99
29) Chloroform	6.78	83	60646	0.52	ppbv	99
30) Cyclohexane	8.32	84	38584	0.48	ppbv #	57
31) cis-1,2-Dichloroethene	6.55	61	35578	0.48	ppbv	96
32) 1,1,1-Trichloroethane	7.63	97	58420	0.46	ppbv	98
34) 2-Butanone	6.26	43	52113	0.55	ppbv	98
35) Carbon Tetrachloride	8.20	117	56400	0.46	ppbv	99
36) Benzene	8.06	78	91122	0.54	ppbv	98
37) 1,2-Dichloroethane	7.41	62	46707	0.53	ppbv	99
38) Trichloroethene	9.10	130	38608	0.48	ppbv	96
39) 1,2-Dichloropropane	8.87	63	33664	0.55	ppbv	96
40) 1,4-Dioxane	9.24	88	4149m	0.44	ppbv	
41) Tetrahydrofuran	7.20	42	28005	0.50	ppbv	96
42) Bromodichloromethane	9.06	83	58299	0.48	ppbv	97
43) Methyl Methacrylate	9.32	69	28972	0.47	ppbv	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	150992	0.54	ppbv	99
45) t-1,3-Dichloropropene	10.70	75	36213	0.40	ppbv	96
46) cis-1,3-Dichloropropene	10.06	75	47838	0.44	ppbv	98
47) 1,1,2-Trichloroethane	10.92	97	40848	0.55	ppbv	99
48) Dibromochloromethane	11.84	129	49659	0.44	ppbv	99
49) Bromoform	14.86	173	35823	0.39	ppbv	99
50) 4-Methyl-2-Pentanone	10.15	43	63880	0.49	ppbv	96
51) 2-Hexanone	11.69	43	53638	0.44	ppbv #	100
52) Tetrachloroethene	12.84	164	39906	0.43	ppbv	97
53) Toluene	11.28	91	115189	0.51	ppbv	97
54) 1,2-Dibromoethane	12.19	107	60030	0.52	ppbv	100
56) 1,1,1,2-Tetrachloroethane	13.83	131	43596	0.48	ppbv #	1
57) Chlorobenzene	13.85	112	105990	0.57	ppbv	98
58) Ethyl Benzene	14.46	91	160760	0.52	ppbv	99
59) m/p-Xylene	14.77	91	268434	1.10	ppbv #	100
60) o-Xylene	15.54	91	145029	0.57	ppbv	99
61) Styrene	15.36	104	49759	0.44	ppbv	99
62) Isopropylbenzene	16.59	105	189385	0.54	ppbv	98
63) 1,1,2,2-Tetrachloroethane	15.53	83	100653	0.58	ppbv	99
64) n-propylbenzene	17.57	120	49521	0.51	ppbv	82
65) tert-Butylbenzene	18.86	119	170884	0.53	ppbv	99
66) Benzyl Chloride	19.16	91	36699	0.33	ppbv #	95
67) sec-Butylbenzene	19.46	105	239753	0.53	ppbv	98
69) p-Isopropyltoluene	19.84	119	188275	0.51	ppbv	98
70) n-Butylbenzene	20.81	91	176574	0.51	ppbv	97
71) 2-Chlorotoluene	17.47	91	132551	0.51	ppbv	100
72) 4-Ethyltoluene	17.86	105	146576	0.50	ppbv	99
73) 1,3,5-Trimethylbenzene	18.04	105	141316	0.52	ppbv	99
74) 1,2,4-Trimethylbenzene	18.88	105	156646	0.55	ppbv	97
75) 1,3-Dichlorobenzene	19.17	146	103054	0.56	ppbv	99
76) 1,4-Dichlorobenzene	19.32	146	103838	0.55	ppbv	98
77) 1,2-Dichlorobenzene	20.08	146	99633	0.54	ppbv	100
78) Hexachloro-1,3-Butadiene	24.71	225	42502	0.51	ppbv	98
79) Naphthalene	23.98	128	96735	0.43	ppbv	98
80) Naphthalene, 2-methyl-	26.09	142	17347	0.48	ppbv	96
81) 1,2,4-Trichlorobenzene	23.78	180	51500	0.47	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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