

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025607.D
 Acq On : 7 Jul 2015 12:32
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

sam
 7/8/2015 11:04:30 AM

Quant Time: Jul 07 13:21:10 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 13:21:10 2015
 QLast Update : Tue Jul 07 13:08:42 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.65	49	650166	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.32	114	1774587	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.74	117	2183094	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.29	95	1911587	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.64	85	104168	0.69	ppbv	99
3) Chlorodifluoromethane	3.57	51	49858	0.64	ppbv	97
4) Chloromethane	3.75	50	23371	0.58	ppbv	98
5) Vinyl Chloride	3.89	62	23530	0.52	ppbv #	88
6) Bromomethane	4.14	94	20380	0.66	ppbv	95
7) Chloroethane	4.24	64	11052	0.59	ppbv	93
8) Dichlorotetrafluoroethane	3.81	85	81317	0.67	ppbv	97
9) Propene	3.59	41	15330	0.47	ppbv	98
10) Heptane	9.35	43	55705	0.48	ppbv	97
11) Trichlorofluoromethane	4.69	101	120311	0.76	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	5.30	101	71082	0.74	ppbv	97
13) Ethanol	4.35	45	1967m	0.33	ppbv	
14) Bromoethene	4.45	108	21519	0.63	ppbv	95
15) Acetone	4.62	43	65775	0.69	ppbv	93
16) 1,3-Butadiene	3.97	39	23625	0.56	ppbv	94
17) tert-Butyl alcohol	5.17	59	44214	0.54	ppbv	96
18) 1,1-Dichloroethene	5.08	96	25513	0.64	ppbv	99
19) Isopropyl Alcohol	4.79	45	20639	0.47	ppbv #	1
20) Methylene Chloride	5.15	84	27032	0.65	ppbv #	86
21) Allyl Chloride	5.22	41	38532	0.61	ppbv	85
22) trans-1,2-Dichloroethene	5.76	96	25852	0.56	ppbv	96
23) Vinyl Acetate	5.98	43	77241	0.46	ppbv	96
24) 1,1-Dichloroethane	5.90	63	62997	0.58	ppbv	97
25) Ethyl Acetate	6.68	43	86725	0.50	ppbv	99
26) Hexane	6.66	57	39559	0.49	ppbv	94
27) Carbon Disulfide	5.39	76	68214	0.61	ppbv #	81
28) Methyl tert-Butyl Ether	5.97	73	73333	0.49	ppbv	97
29) Chloroform	6.74	83	86425	0.64	ppbv	100
30) Cyclohexane	8.29	84	37745	0.51	ppbv #	33
31) cis-1,2-Dichloroethene	6.51	61	36462	0.47	ppbv	93
32) 1,1,1-Trichloroethane	7.59	97	88828	0.58	ppbv	98
34) 2-Butanone	6.21	43	47480	0.45	ppbv	98
35) Carbon Tetrachloride	8.16	117	93853	0.58	ppbv	95
36) Benzene	8.02	78	79006	0.45	ppbv	95
37) 1,2-Dichloroethane	7.37	62	72939	0.60	ppbv	99
38) Trichloroethene	9.06	130	39092	0.52	ppbv	96
39) 1,2-Dichloropropane	8.82	63	30149	0.46	ppbv	95
40) 1,4-Dioxane	9.21	88	2966m	0.21	ppbv	
41) Tetrahydrofuran	7.16	42	20963	0.37	ppbv	92
42) Bromodichloromethane	9.02	83	84993	0.56	ppbv	96
43) Methyl Methacrylate	9.27	69	25011	0.38	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	9.09	57	129242	0.43	ppbv	92
45) t-1,3-Dichloropropene	10.65	75	39258	0.39	ppbv	90
46) cis-1,3-Dichloropropene	10.01	75	44593	0.38	ppbv #	89
47) 1,1,2-Trichloroethane	10.88	97	42153	0.52	ppbv	95
48) Dibromochloromethane	11.79	129	72172	0.55	ppbv	100
49) Bromoform	14.80	173	57025	0.54	ppbv	98
50) 4-Methyl-2-Pentanone	10.11	43	57209	0.40	ppbv	98
51) 2-Hexanone	11.65	43	45083	0.35	ppbv #	93
52) Tetrachloroethene	12.79	164	42863	0.53	ppbv	96
53) Toluene	11.24	91	95880	0.42	ppbv	99
54) 1,2-Dibromoethane	12.14	107	68596	0.55	ppbv	95
56) 1,1,1,2-Tetrachloroethane	13.78	131	62715	0.60	ppbv #	1
57) Chlorobenzene	13.81	112	126728	0.59	ppbv	94
58) Ethyl Benzene	14.41	91	153584	0.44	ppbv	99
59) m/p-Xylene	14.72	91	311297	1.07	ppbv	98
60) o-Xylene	15.49	91	169533	0.55	ppbv	98
61) Styrene	15.31	104	39912	0.34	ppbv	98
62) Isopropylbenzene	16.54	105	218987	0.54	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.48	83	128697	0.59	ppbv	98
64) n-propylbenzene	17.52	120	57177	0.53	ppbv	92
65) tert-Butylbenzene	18.81	119	215237	0.57	ppbv	98
66) Benzyl Chloride	19.10	91	66700	0.52	ppbv	96
67) sec-Butylbenzene	19.41	105	300200	0.56	ppbv	99
69) p-Isopropyltoluene	19.78	119	235080	0.54	ppbv	98
70) n-Butylbenzene	20.76	91	243313	0.58	ppbv	96
71) 2-Chlorotoluene	17.43	91	143371	0.47	ppbv	99
72) 4-Ethyltoluene	17.82	105	167807	0.50	ppbv #	97
73) 1,3,5-Trimethylbenzene	17.99	105	174810	0.54	ppbv	97
74) 1,2,4-Trimethylbenzene	18.83	105	214165	0.61	ppbv	94
75) 1,3-Dichlorobenzene	19.11	146	149460	0.67	ppbv	99
76) 1,4-Dichlorobenzene	19.27	146	143177	0.64	ppbv	97
77) 1,2-Dichlorobenzene	20.02	146	142403	0.64	ppbv	99
78) Hexachloro-1,3-Butadiene	24.67	225	91341	0.80	ppbv	96
79) Naphthalene	23.94	128	189932	0.66	ppbv	96
80) Naphthalene, 2-methyl-	26.05	142	60371	0.82	ppbv	95
81) 1,2,4-Trichlorobenzene	23.74	180	95519	0.71	ppbv	99

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

