

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL070715\
 Data File : VL025611.D
 Acq On : 7 Jul 2015 15:54
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVV070715

Manual Integrations
 APPROVED

sam
 7/8/2015 11:06:09 AM

Quant Time: Jul 07 16:33:31 2015
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL070715AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 07 2015
 QLast Update : Tue Jul 07 15:16:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.67	49	650809	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	8.34	114	1753527	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.76	117	2334149m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.30	95	1926937	9.79	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.64	85	1505230	8.93	ppbv	97
3) Chlorodifluoromethane	3.57	51	731710	7.98	ppbv	99
4) Chloromethane	3.75	50	331794	7.93	ppbv	99
5) Vinyl Chloride	3.89	62	370235	8.19	ppbv	99
6) Bromomethane	4.15	94	312756	8.53	ppbv	93
7) Chloroethane	4.25	64	173599	8.25	ppbv	95
8) Dichlorotetrafluoroethane	3.81	85	1201682	8.13	ppbv	100
9) Propene	3.60	41	253625	8.32	ppbv	99
10) Heptane	9.36	43	1055573	8.90	ppbv	98
11) Trichlorofluoromethane	4.70	101	1876736	8.58	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	5.31	101	1050735	8.38	ppbv	99
13) Ethanol	4.34	45	30930m	6.53	ppbv	
14) Bromoethene	4.45	108	336662	8.18	ppbv	97
15) Acetone	4.60	43	960828	8.36	ppbv	100
16) 1,3-Butadiene	3.97	39	382275	8.35	ppbv	100
17) tert-Butyl alcohol	5.13	59	799193	8.28	ppbv	100
18) 1,1-Dichloroethene	5.09	96	396302	8.25	ppbv	99
19) Isopropyl Alcohol	4.75	45	335918	7.32	ppbv #	97
20) Methylene Chloride	5.15	84	367737	7.87	ppbv	93
21) Allyl Chloride	5.23	41	575540	8.00	ppbv	96
22) trans-1,2-Dichloroethene	5.77	96	401126	8.18	ppbv	98
23) Vinyl Acetate	5.99	43	1549412	8.89	ppbv	99
24) 1,1-Dichloroethane	5.92	63	984811	8.43	ppbv	99
25) Ethyl Acetate	6.68	43	1505960	8.66	ppbv	99
26) Hexane	6.67	57	718792	8.78	ppbv	98
27) Carbon Disulfide	5.39	76	1128742	8.51	ppbv	100
28) Methyl tert-Butyl Ether	5.96	73	1444514	8.87	ppbv	99
29) Chloroform	6.76	83	1364856	8.44	ppbv	99
30) Cyclohexane	8.29	84	690551	8.82	ppbv	99
31) cis-1,2-Dichloroethene	6.53	61	726345	8.92	ppbv	97
32) 1,1,1-Trichloroethane	7.60	97	1546867	9.11	ppbv	100
34) 2-Butanone	6.20	43	892418	8.97	ppbv	99
35) Carbon Tetrachloride	8.17	117	1652230	8.84	ppbv	100
36) Benzene	8.03	78	1498275	8.92	ppbv	99
37) 1,2-Dichloroethane	7.38	62	1232352	8.59	ppbv	100
38) Trichloroethene	9.07	130	696054	8.91	ppbv	99
39) 1,2-Dichloropropane	8.84	63	532998	8.59	ppbv	95
40) 1,4-Dioxane	9.12	88	104250	10.72	ppbv #	30
41) Tetrahydrofuran	7.12	42	449049	9.04	ppbv	98
42) Bromodichloromethane	9.04	83	1565312	9.05	ppbv	99
43) Methyl Methacrylate	9.27	69	620522	9.63	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.10	57	2581110	8.96	ppbv	99
45) t-1,3-Dichloropropene	10.66	75	1013298	9.35	ppbv	99
46) cis-1,3-Dichloropropene	10.03	75	1134681	9.47	ppbv	99
47) 1,1,2-Trichloroethane	10.89	97	755438	8.75	ppbv	99
48) Dibromochloromethane	11.81	129	1414156	9.16	ppbv	98
49) Bromoform	14.83	173	1161842	9.12	ppbv	99
50) 4-Methyl-2-Pentanone	10.10	43	1370238	9.56	ppbv	100
51) 2-Hexanone	11.63	43	1319426	10.26	ppbv #	98
52) Tetrachloroethene	12.80	164	789583	9.37	ppbv	97
53) Toluene	11.25	91	2249190	9.53	ppbv	99
54) 1,2-Dibromoethane	12.15	107	1231130	8.82	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.80	131	1063755	8.43	ppbv	99
57) Chlorobenzene	13.82	112	2013578	8.11	ppbv	98
58) Ethyl Benzene	14.43	91	3524849	9.14	ppbv	99
59) m/p-Xylene	14.73	91	5891054	17.39	ppbv	99
60) o-Xylene	15.51	91	3113120	8.53	ppbv	100
61) Styrene	15.32	104	1330400	10.41	ppbv	99
62) Isopropylbenzene	16.56	105	4176531	8.76	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.50	83	1953587	7.92	ppbv	100
64) n-propylbenzene	17.54	120	1138723	8.83	ppbv	98
65) tert-Butylbenzene	18.83	119	3953049	8.44	ppbv	99
66) Benzyl Chloride	19.11	91	1220000	7.10	ppbv	100
67) sec-Butylbenzene	19.43	105	5642810	8.60	ppbv	100
69) p-Isopropyltoluene	19.80	119	4900119	9.06	ppbv	100
70) n-Butylbenzene	20.77	91	4852356	8.85	ppbv	99
71) 2-Chlorotoluene	17.44	91	3181190	9.09	ppbv	99
72) 4-Ethyltoluene	17.83	105	3682948	9.13	ppbv	99
73) 1,3,5-Trimethylbenzene	18.00	105	3557902	8.97	ppbv	98
74) 1,2,4-Trimethylbenzene	18.85	105	3726240	8.39	ppbv	98
75) 1,3-Dichlorobenzene	19.13	146	2368333	8.19	ppbv	100
76) 1,4-Dichlorobenzene	19.28	146	2428923	8.39	ppbv	99
77) 1,2-Dichlorobenzene	20.04	146	2360009	8.23	ppbv	99
78) Hexachloro-1,3-Butadiene	24.68	225	1333930	7.56	ppbv	99
79) Naphthalene	23.94	128	3404936	7.94	ppbv	99
80) Naphthalene, 2-methyl-	26.05	142	584866	4.69	ppbv	99
81) 1,2,4-Trichlorobenzene	23.74	180	1764598	8.58	ppbv	100

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

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