

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031854.D
 Acq On : 12 Apr 2018 2:13
 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
 4/15/2018 3:06:06 PM

Quant Time: Apr 12 04:39:25 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:39:25 2018
 QLast Update : Thu Apr 12 04:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1312826	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2806043	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2705537	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.72	95	2226527	10.95	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	152268	0.621	ppbv	98
3) Chlorodifluoromethane	3.10	51	82623	0.491	ppbv	97
4) Chloromethane	3.26	50	40798	0.484	ppbv #	87
5) Vinyl Chloride	3.39	62	42371	0.500	ppbv	93
6) Bromomethane	3.61	94	28794	0.496	ppbv	98
7) Chloroethane	3.70	64	19300	0.551	ppbv #	87
8) Dichlorotetrafluoroethane	3.31	85	122526	0.543	ppbv	98
9) Propene	3.13	41	24769	0.370	ppbv	97
10) Heptane	8.39	43	78072	0.391	ppbv	99
11) Trichlorofluoromethane	4.11	101	148862	0.606	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.67	101	98798	0.608	ppbv	98
13) Ethanol	3.77	45	10572m	0.499	ppbv	
14) Bromoethene	3.89	108	34803	0.526	ppbv	99
15) Acetone	4.03	43	113668	0.515	ppbv	97
16) 1,3-Butadiene	3.46	39	37847	0.474	ppbv	96
17) tert-Butyl alcohol	4.50	59	47782m	0.477	ppbv	
18) 1,1-Dichloroethene	4.47	96	40565	0.553	ppbv	98
19) Isopropyl Alcohol	4.15	45	60523	0.503	ppbv #	93
20) Methylene Chloride	4.52	84	44522	0.605	ppbv #	86
21) Allyl Chloride	4.59	41	61675m	0.524	ppbv	
22) trans-1,2-Dichloroethene	5.08	96	41369	0.527	ppbv	94
23) Vinyl Acetate	5.28	43	97369	0.404	ppbv #	95
24) 1,1-Dichloroethane	5.21	63	114694	0.562	ppbv	98
25) Ethyl Acetate	5.91	43	165395	0.486	ppbv	98
26) Hexane	5.90	57	75420	0.482	ppbv	93
27) Carbon Disulfide	4.74	76	96958	0.567	ppbv #	92
28) Methyl tert-Butyl Ether	5.25	73	86564m	0.409	ppbv	
29) Chloroform	5.97	83	139067	0.558	ppbv	98
30) Cyclohexane	7.39	84	47102m	0.377	ppbv	
31) cis-1,2-Dichloroethene	5.76	61	65893m	0.453	ppbv	
32) 1,1,1-Trichloroethane	6.75	97	127840	0.489	ppbv	96
34) 2-Butanone	5.47	43	102811	0.533	ppbv	97
35) Carbon Tetrachloride	7.27	117	126109m	0.600	ppbv	
36) Benzene	7.14	78	123233	0.467	ppbv #	93
37) 1,2-Dichloroethane	6.54	62	102962m	0.585	ppbv	
38) Trichloroethene	8.10	130	51560	0.482	ppbv	92
39) 1,2-Dichloropropane	7.87	63	48249	0.505	ppbv	96
40) 1,4-Dioxane	8.14	88	16682m	0.435	ppbv	
41) Tetrahydrofuran	6.30	42	40399m	0.418	ppbv	
42) Bromodichloromethane	8.05	83	119095	0.570	ppbv	99
43) Methyl Methacrylate	8.28	69	39617	0.425	ppbv	97

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

44) 2,2,4-Trimethylpentane	8.13	57	208827	0.486	ppbv	94
45) t-1,3-Dichloropropene	9.56	75	46712	0.370	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	62665	0.397	ppbv	91
47) 1,1,2-Trichloroethane	9.76	97	60331m	0.554	ppbv	
48) Dibromochloromethane	10.60	129	89863	0.530	ppbv	100
49) Bromoform	13.36	173	65532m	0.526	ppbv	
50) 4-Methyl-2-Pentanone	9.04	43	102549	0.461	ppbv	96
51) 2-Hexanone	10.44	43	74517	0.362	ppbv #	29
52) Tetrachloroethene	11.52	164	50031m	0.470	ppbv	
53) Toluene	10.10	91	117296	0.385	ppbv	99
54) 1,2-Dibromoethane	10.91	107	80616	0.490	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.42	131	70934	0.569	ppbv #	1
57) Chlorobenzene	12.45	112	128234	0.528	ppbv #	83
58) Ethyl Benzene	13.02	91	170872m	0.396	ppbv	
59) m/p-Xylene	13.30	91	319866m	0.900	ppbv	
60) o-Xylene	14.00	91	149100	0.415	ppbv	99
61) Styrene	13.83	104	21693m	0.273	ppbv	
62) Isopropylbenzene	14.97	105	203186	0.447	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	133187	0.568	ppbv	99
64) n-propylbenzene	15.88	120	48828m	0.446	ppbv	
65) tert-Butylbenzene	17.06	119	170038	0.436	ppbv	93
66) Benzyl Chloride	17.31	91	14255m	0.429	ppbv	
67) sec-Butylbenzene	17.60	105	249924	0.460	ppbv	100
69) p-Isopropyltoluene	17.97	119	182605	0.418	ppbv	98
70) n-Butylbenzene	18.86	91	197118	0.457	ppbv	95
71) 2-Chlorotoluene	15.77	91	140409	0.412	ppbv	99
72) 4-Ethyltoluene	16.15	105	153800m	0.427	ppbv	
73) 1,3,5-Trimethylbenzene	16.30	105	141863	0.434	ppbv	98
74) 1,2,4-Trimethylbenzene	17.07	105	179666	0.511	ppbv	93
75) 1,3-Dichlorobenzene	17.31	146	112876	0.525	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	106726m	0.488	ppbv	
77) 1,2-Dichlorobenzene	18.14	146	105743	0.508	ppbv	95
78) Hexachloro-1,3-Butadiene	23.68	225	48683m	0.564	ppbv	
79) Naphthalene	22.59	128	75032m	0.338	ppbv	
80) Naphthalene, 2-methyl-	25.24	142	12252	0.223	ppbv	95
81) 1,2,4-Trichlorobenzene	22.32	180	51198m	0.422	ppbv	

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

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