

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031851.D
 Acq On : 12 Apr 2018 00:18
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:05:51 PM

Quant Time: Apr 13 16:22:56 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 13 2018
 QLast Update : Thu Apr 12 04:56:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1243729	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2869326	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2897675m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2378457	10.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.16	85	2120910	8.318 ppbv	97
3) Chlorodifluoromethane	3.10	51	1347226	9.246 ppbv	98
4) Chloromethane	3.26	50	688570	9.291 ppbv	95
5) Vinyl Chloride	3.38	62	723215	8.683 ppbv	95
6) Bromomethane	3.61	94	508146	9.295 ppbv	96
7) Chloroethane	3.70	64	295339	8.853 ppbv	95
8) Dichlorotetrafluoroethane	3.31	85	1880250	8.948 ppbv	100
9) Propene	3.12	41	506036	9.963 ppbv	99
10) Heptane	8.39	43	1647212	10.115 ppbv	100
11) Trichlorofluoromethane	4.11	101	2186497	8.755 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1420543	8.748 ppbv	99
13) Ethanol	3.75	45	136478	7.855 ppbv	100
14) Bromoethene	3.89	108	567958	9.170 ppbv	100
15) Acetone	4.00	43	1588499	8.410 ppbv	100
16) 1,3-Butadiene	3.46	39	711468	10.135 ppbv	94
17) tert-Butyl alcohol	4.47	59	762419	9.581 ppbv	100
18) 1,1-Dichloroethene	4.46	96	633311	9.021 ppbv	98
19) Isopropyl Alcohol	4.13	45	978080	9.123 ppbv	# 99
20) Methylene Chloride	4.52	84	590877	8.405 ppbv	98
21) Allyl Chloride	4.59	41	1024668	9.328 ppbv	98
22) trans-1,2-Dichloroethene	5.08	96	667188	9.124 ppbv	99
23) Vinyl Acetate	5.28	43	1865576	9.423 ppbv	99
24) 1,1-Dichloroethane	5.21	63	1670951	8.565 ppbv	99
25) Ethyl Acetate	5.90	43	2778921	9.243 ppbv	100
26) Hexane	5.91	57	1315929	9.408 ppbv	99
27) Carbon Disulfide	4.74	76	1775162	9.850 ppbv	98
28) Methyl tert-Butyl Ether	5.23	73	1633005	9.370 ppbv	99
29) Chloroform	5.98	83	2104124	8.913 ppbv	98
30) Cyclohexane	7.39	84	1015496	10.179 ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1227375	9.644 ppbv	94
32) 1,1,1-Trichloroethane	6.76	97	2101121	9.123 ppbv	99
34) 2-Butanone	5.45	43	1793733	8.986 ppbv	100
35) Carbon Tetrachloride	7.27	117	2166061	8.712 ppbv	96
36) Benzene	7.14	78	2484019	9.581 ppbv	96
37) 1,2-Dichloroethane	6.55	62	1750115	9.100 ppbv	98
38) Trichloroethene	8.10	130	976921	9.296 ppbv	96
39) 1,2-Dichloropropane	7.88	63	901383	9.343 ppbv	96
40) 1,4-Dioxane	8.09	88	392790	10.089 ppbv	99
41) Tetrahydrofuran	6.28	42	905019	9.665 ppbv	99
42) Bromodichloromethane	8.06	83	2147821	9.358 ppbv	100
43) Methyl Methacrylate	8.28	69	931531	10.220 ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4225306	9.511	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1316637	11.095	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1621197	10.724	ppbv	97
47) 1,1,2-Trichloroethane	9.76	97	1074372	9.445	ppbv	99
48) Dibromochloromethane	10.60	129	1826989	9.987	ppbv	100
49) Bromoform	13.36	173	1443264m	10.331	ppbv	
50) 4-Methyl-2-Pentanone	9.02	43	2268132	9.973	ppbv	99
51) 2-Hexanone	10.42	43	2161945	10.907	ppbv	100
52) Tetrachloroethene	11.52	164	930277	9.242	ppbv	96
53) Toluene	10.09	91	2987764	10.362	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1604136	9.687	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	1260564	9.344	ppbv	100
57) Chlorobenzene	12.46	112	2279895	9.329	ppbv	99
58) Ethyl Benzene	13.02	91	4175072	10.441	ppbv	96
59) m/p-Xylene	13.30	91	6842768m	19.727	ppbv	
60) o-Xylene	14.00	91	3518685	10.170	ppbv	99
61) Styrene	13.84	104	826058	12.450	ppbv	100
62) Isopropylbenzene	14.98	105	4449761	10.058	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.99	83	2365604	8.948	ppbv	99
64) n-propylbenzene	15.88	120	1103676	10.292	ppbv	98
65) tert-Butylbenzene	17.06	119	3828841	10.143	ppbv	100
66) Benzyl Chloride	17.31	91	376721	11.092	ppbv	100
67) sec-Butylbenzene	17.61	105	5443399	10.041	ppbv	100
69) p-Isopropyltoluene	17.96	119	4393189	10.488	ppbv	99
70) n-Butylbenzene	18.86	91	4578414	10.594	ppbv	100
71) 2-Chlorotoluene	15.77	91	3331540	10.430	ppbv	100
72) 4-Ethyltoluene	16.15	105	3684473	10.512	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3350878	10.502	ppbv	98
74) 1,2,4-Trimethylbenzene	17.08	105	3495202	9.804	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	2137880	9.803	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2149684	10.169	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	2132108	10.014	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	732431	8.120	ppbv	99
79) Naphthalene	22.59	128	2460517	12.326	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	727454	17.962	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1268397	11.514	ppbv	99

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

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