

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031960.D
 Acq On : 3 May 2018 11:24
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:00:54 PM

Quant Time: May 03 12:10:38 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 12:10:38 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1281463	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2569488	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2659839m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1998659	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1548545	5.86	ppbv	98
3) Chlorodifluoromethane	3.10	51	1093355	7.34	ppbv	96
4) Chloromethane	3.25	50	617377	8.11	ppbv	97
5) Vinyl Chloride	3.38	62	634883	7.41	ppbv	99
6) Bromomethane	3.60	94	440363	7.82	ppbv	98
7) Chloroethane	3.69	64	252675	7.40	ppbv #	86
8) Dichlorotetrafluoroethane	3.31	85	1548504	7.14	ppbv	97
9) Propene	3.12	41	443166	8.60	ppbv	98
10) Heptane	8.38	43	1457184	8.72	ppbv	99
11) Trichlorofluoromethane	4.10	101	1716437	6.62	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1290784	7.67	ppbv	95
13) Ethanol	3.74	45	132473m	7.57	ppbv	
14) Bromoethene	3.88	108	496003	7.81	ppbv	99
15) Acetone	4.00	43	1375464	6.97	ppbv	99
16) 1,3-Butadiene	3.45	39	596319	8.17	ppbv	96
17) tert-Butyl alcohol	4.46	59	715602	8.78	ppbv	99
18) 1,1-Dichloroethene	4.46	96	563001	7.78	ppbv	92
19) Isopropyl Alcohol	4.12	45	857161	7.78	ppbv	99
20) Methylene Chloride	4.51	84	548423	7.63	ppbv	95
21) Allyl Chloride	4.59	41	998726	8.86	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	644697	8.60	ppbv	97
23) Vinyl Acetate	5.27	43	2046442	10.23	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1737935	8.72	ppbv	99
25) Ethyl Acetate	5.89	43	2931101	9.53	ppbv	100
26) Hexane	5.90	57	1366458	9.53	ppbv	99
27) Carbon Disulfide	4.73	76	1667134	8.95	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1764426	10.00	ppbv	100
29) Chloroform	5.97	83	2088626	8.59	ppbv	99
30) Cyclohexane	7.38	84	913455	8.92	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1289561	9.93	ppbv	93
32) 1,1,1-Trichloroethane	6.75	97	1819873	7.69	ppbv	98
34) 2-Butanone	5.44	43	1978095	11.10	ppbv	99
35) Carbon Tetrachloride	7.27	117	1843240	8.26	ppbv	99
36) Benzene	7.14	78	2278880	9.86	ppbv	99
37) 1,2-Dichloroethane	6.54	62	1743336	10.14	ppbv	98
38) Trichloroethene	8.10	130	893877	9.53	ppbv	94
39) 1,2-Dichloropropane	7.87	63	807286	9.40	ppbv	96
40) 1,4-Dioxane	8.09	88	362857	10.41	ppbv	91
41) Tetrahydrofuran	6.27	42	1013127	12.28	ppbv	99
42) Bromodichloromethane	8.05	83	1864491	9.06	ppbv	99
43) Methyl Methacrylate	8.27	69	831318	10.22	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3710465	9.32	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1189913	11.28	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1465298	10.87	ppbv	96
47) 1,1,2-Trichloroethane	9.76	97	947222	9.28	ppbv	99
48) Dibromochloromethane	10.59	129	1608674	9.75	ppbv	100
49) Bromoform	13.35	173	1268344	9.98	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	2012647	9.87	ppbv	100
51) 2-Hexanone	10.41	43	1916368	10.75	ppbv #	100
52) Tetrachloroethene	11.52	164	874648	9.71	ppbv	98
53) Toluene	10.09	91	2701446	10.48	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1478890	9.98	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1103621	8.82	ppbv #	62
57) Chlorobenzene	12.45	112	2029767	9.00	ppbv	97
58) Ethyl Benzene	13.01	91	3735077	10.11	ppbv	99
59) m/p-Xylene	13.30	91	5979689m	18.64	ppbv	
60) o-Xylene	14.00	91	3036769	9.47	ppbv	99
61) Styrene	13.83	104	750863	12.30	ppbv	99
62) Isopropylbenzene	14.97	105	3853132	9.36	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	1987436	8.06	ppbv	99
64) n-propylbenzene	15.87	120	966654	9.66	ppbv	98
65) tert-Butylbenzene	17.06	119	3376022	9.53	ppbv	99
66) Benzyl Chloride	17.30	91	329688	10.33	ppbv	98
67) sec-Butylbenzene	17.61	105	4754400	9.32	ppbv	100
69) p-Isopropyltoluene	17.96	119	3921410	9.91	ppbv	98
70) n-Butylbenzene	18.86	91	4002929	9.72	ppbv	99
71) 2-Chlorotoluene	15.77	91	2901540	9.75	ppbv	99
72) 4-Ethyltoluene	16.15	105	3214010	9.81	ppbv	100
73) 1,3,5-Trimethylbenzene	16.30	105	2913285	9.71	ppbv	99
74) 1,2,4-Trimethylbenzene	17.07	105	3030769	9.05	ppbv	97
75) 1,3-Dichlorobenzene	17.32	146	1855055	9.03	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1887036	9.47	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1864848	9.22	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	1085738	13.98	ppbv	99
79) Naphthalene	22.58	128	2347093	12.46	ppbv	99
80) Naphthalene, 2-methyl-	25.22	142	856165	23.27	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	1219595	11.67	ppbv	100

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

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