

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031264.D
 Acq On : 20 Dec 2017 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:41 PM

Quant Time: Dec 22 03:48:17 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1695384	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	4413048	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	4529412	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3268369	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1222338	8.53	ppbv	98
3) Chlorodifluoromethane	3.11	51	2097841	10.88	ppbv	97
4) Chloromethane	3.27	50	1019022	9.79	ppbv	96
5) Vinyl Chloride	3.40	62	1006897	9.35	ppbv	100
6) Bromomethane	3.63	94	676624	10.60	ppbv	98
7) Chloroethane	3.71	64	397459	9.96	ppbv	95
8) Dichlorotetrafluoroethane	3.32	85	1835060	9.23	ppbv	98
9) Propene	3.14	41	929848	9.83	ppbv	100
10) Heptane	8.41	43	2696477	9.36	ppbv	100
11) Trichlorofluoromethane	4.13	101	2606529	11.07	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1614763	9.79	ppbv	96
13) Ethanol	3.76	45	223402	8.19	ppbv	100
14) Bromoethene	3.91	108	769284	10.85	ppbv	98
15) Acetone	4.02	43	1915485	8.56	ppbv	99
16) 1,3-Butadiene	3.47	39	881503m	9.16	ppbv	
17) tert-Butyl alcohol	4.48	59	1010135	8.04	ppbv	99
18) 1,1-Dichloroethene	4.48	96	769978	10.42	ppbv	93
19) Isopropyl Alcohol	4.14	45	1325000	9.36	ppbv #	43
20) Methylene Chloride	4.54	84	719700	9.72	ppbv	99
21) Allyl Chloride	4.61	41	1244169	9.45	ppbv	95
22) trans-1,2-Dichloroethene	5.10	96	870404	9.58	ppbv	97
23) Vinyl Acetate	5.30	43	3048251	8.46	ppbv	99
24) 1,1-Dichloroethane	5.23	63	2501048	9.55	ppbv	100
25) Ethyl Acetate	5.92	43	4117129	9.01	ppbv	100
26) Hexane	5.93	57	1986496	9.16	ppbv	96
27) Carbon Disulfide	4.76	76	2083517	9.60	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2420124	8.54	ppbv	98
29) Chloroform	6.00	83	2948560	10.07	ppbv	99
30) Cyclohexane	7.41	84	1695261	8.88	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	1890281	9.61	ppbv	99
32) 1,1,1-Trichloroethane	6.78	97	3007063	9.61	ppbv	98
34) 2-Butanone	5.47	43	2869614	9.21	ppbv	99
35) Carbon Tetrachloride	7.30	117	3149734	9.96	ppbv	99
36) Benzene	7.17	78	4164741	8.91	ppbv	98
37) 1,2-Dichloroethane	6.57	62	2519837	9.77	ppbv	98
38) Trichloroethene	8.13	130	1573908	8.63	ppbv	98
39) 1,2-Dichloropropane	7.90	63	1513953	9.16	ppbv	96
40) 1,4-Dioxane	8.12	88	629049	10.54	ppbv #	92
41) Tetrahydrofuran	6.30	42	1630012	9.30	ppbv	99
42) Bromodichloromethane	8.08	83	3185885	10.47	ppbv	99
43) Methyl Methacrylate	8.30	69	1553306	9.92	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	6260504	8.86	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	2072178	9.67	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2640143	9.80	ppbv	99
47) 1,1,2-Trichloroethane	9.79	97	1682422	9.81	ppbv	98
48) Dibromochloromethane	10.63	129	2797158	10.44	ppbv	100
49) Bromoform	13.38	173	1998608	10.11	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	3658689	9.59	ppbv	99
51) 2-Hexanone	10.44	43	3622983	9.95	ppbv #	98
52) Tetrachloroethene	11.55	164	1414528	8.20	ppbv	97
53) Toluene	10.12	91	4763718	9.39	ppbv	99
54) 1,2-Dibromoethane	10.94	107	2535828	9.76	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.46	131	1859834	9.20	ppbv	100
57) Chlorobenzene	12.48	112	3651969	8.65	ppbv	99
58) Ethyl Benzene	13.04	91	6359165	8.50	ppbv	99
59) m/p-Xylene	13.33	91	10227799m	17.08	ppbv	
60) o-Xylene	14.03	91	5105080	8.46	ppbv	99
61) Styrene	13.86	104	1490572	8.61	ppbv	98
62) Isopropylbenzene	15.00	105	6648665	8.40	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	3290926	8.14	ppbv	98
64) n-propylbenzene	15.90	120	1780077	8.48	ppbv	95
65) tert-Butylbenzene	17.08	119	5727905	8.17	ppbv	99
66) Benzyl Chloride	17.34	91	507431m	6.72	ppbv	
67) sec-Butylbenzene	17.63	105	7971497	8.27	ppbv	100
69) p-Isopropyltoluene	17.99	119	6609863	8.22	ppbv	99
70) n-Butylbenzene	18.89	91	6610316	8.53	ppbv	99
71) 2-Chlorotoluene	15.79	91	5094380	8.67	ppbv	100
72) 4-Ethyltoluene	16.18	105	5577955	8.44	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	4935280	8.39	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	5085835	8.22	ppbv	98
75) 1,3-Dichlorobenzene	17.34	146	3217896	8.20	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	3266961	8.24	ppbv	98
77) 1,2-Dichlorobenzene	18.16	146	3152084	8.22	ppbv	98
78) Hexachloro-1,3-Butadiene	23.71	225	1443480	16.39	ppbv	99
79) Naphthalene	22.61	128	4124621	8.24	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1789276	9.59	ppbv	98
81) 1,2,4-Trichlorobenzene	22.34	180	1965968	8.43	ppbv	100

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

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