

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL053118\
 Data File : VL032022.D
 Acq On : 31 May 2018 20:04
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 6/4/2018 10:55:09 AM

Quant Time: Jun 01 02:29:20 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL053118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 01 02:29:20 2018
 QLast Update : Fri Jun 01 01:58:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.87	49	1401293	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.41	114	2704213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.37	117	2761104	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.71	95	2141961	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.15	85	1822586	10.20	ppbv	96
3) Chlorodifluoromethane	3.08	51	1439674	10.93	ppbv	100
4) Chloromethane	3.24	50	840089	12.32	ppbv	96
5) Vinyl Chloride	3.37	62	922327	11.87	ppbv	98
6) Bromomethane	3.59	94	668285	13.17	ppbv	96
7) Chloroethane	3.68	64	407091	13.69	ppbv	99
8) Dichlorotetrafluoroethane	3.29	85	2213884	12.11	ppbv	99
9) Propene	3.11	41	628776	13.17	ppbv	96
10) Heptane	8.37	43	2280256	13.73	ppbv	99
11) Trichlorofluoromethane	4.09	101	2798813	12.32	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.65	101	2293821	14.20	ppbv	100
13) Ethanol	3.73	45	186063	10.41	ppbv	100
14) Bromoethene	3.87	108	746707	12.84	ppbv	98
15) Acetone	3.99	43	1864086	9.53	ppbv	100
16) 1,3-Butadiene	3.44	39	800695	12.64	ppbv	95
17) tert-Butyl alcohol	4.45	59	968123	11.84	ppbv	99
18) 1,1-Dichloroethene	4.44	96	1057017	15.01	ppbv	93
19) Isopropyl Alcohol	4.11	45	1250767	11.47	ppbv	100
20) Methylene Chloride	4.50	84	1007952	14.89	ppbv	97
21) Allyl Chloride	4.57	41	1651604	14.49	ppbv	99
22) trans-1,2-Dichloroethene	5.06	96	1104549	14.10	ppbv	98
23) Vinyl Acetate	5.26	43	3142584	13.81	ppbv	99
24) 1,1-Dichloroethane	5.19	63	2915977	13.59	ppbv	99
25) Ethyl Acetate	5.87	43	4494243	13.19	ppbv	100
26) Hexane	5.89	57	2152372	13.39	ppbv	99
27) Carbon Disulfide	4.72	76	2901881	15.70	ppbv	100
28) Methyl tert-Butyl Ether	5.22	73	2757091	13.96	ppbv	99
29) Chloroform	5.96	83	3380923	13.18	ppbv	96
30) Cyclohexane	7.36	84	1420669	13.39	ppbv	98
31) cis-1,2-Dichloroethene	5.75	61	2130535	14.45	ppbv	98
32) 1,1,1-Trichloroethane	6.74	97	2788634	11.97	ppbv	100
34) 2-Butanone	5.43	43	2971063	13.29	ppbv	100
35) Carbon Tetrachloride	7.25	117	2944849	13.59	ppbv	98
36) Benzene	7.13	78	3478186	13.69	ppbv	100
37) 1,2-Dichloroethane	6.53	62	2232767	12.43	ppbv	99
38) Trichloroethene	8.08	130	1388199	14.29	ppbv	97
39) 1,2-Dichloropropane	7.86	63	1249530	14.06	ppbv	97
40) 1,4-Dioxane	8.07	88	541645	13.59	ppbv	99
41) Tetrahydrofuran	6.26	42	1519545	15.75	ppbv	99
42) Bromodichloromethane	8.04	83	2975085	14.44	ppbv	100
43) Methyl Methacrylate	8.26	69	1281253	14.78	ppbv	98

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44) 2,2,4-Trimethylpentane	8.12	57	5740258	13.89	ppbv	100
45) t-1,3-Dichloropropene	9.54	75	1934766	16.80	ppbv	99
46) cis-1,3-Dichloropropene	8.96	75	2284464	16.09	ppbv	100
47) 1,1,2-Trichloroethane	9.75	97	1518160	14.41	ppbv	98
48) Dibromochloromethane	10.58	129	2597431	15.27	ppbv	99
49) Bromoform	13.34	173	2123573	15.92	ppbv	99
50) 4-Methyl-2-Pentanone	8.99	43	3106253	14.72	ppbv	100
51) 2-Hexanone	10.39	43	2892385	15.04	ppbv #	100
52) Tetrachloroethene	11.50	164	1376619	14.55	ppbv	98
53) Toluene	10.08	91	4218374	15.31	ppbv	100
54) 1,2-Dibromoethane	10.89	107	2329347	14.85	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.41	131	1811478	14.24	ppbv #	75
57) Chlorobenzene	12.44	112	3356618	13.89	ppbv	98
58) Ethyl Benzene	13.00	91	6013554	15.03	ppbv	99
59) m/p-Xylene	13.28	91	9894679m	28.93	ppbv	
60) o-Xylene	13.98	91	5061783	14.75	ppbv	100
61) Styrene	13.82	104	1206364	17.39	ppbv	99
62) Isopropylbenzene	14.96	105	6424283	14.71	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.97	83	3427066	14.12	ppbv	99
64) n-propylbenzene	15.85	120	1649477	15.02	ppbv	96
65) tert-Butylbenzene	17.04	119	5589554	14.38	ppbv	99
66) Benzyl Chloride	17.29	91	730059	20.14	ppbv	99
67) sec-Butylbenzene	17.59	105	8057212	14.89	ppbv	100
69) p-Isopropyltoluene	17.95	119	6602719	15.23	ppbv	99
70) n-Butylbenzene	18.84	91	6892533	15.39	ppbv	99
71) 2-Chlorotoluene	15.75	91	4931045	15.37	ppbv	100
72) 4-Ethyltoluene	16.13	105	5395178	15.48	ppbv	100
73) 1,3,5-Trimethylbenzene	16.29	105	4920901	15.37	ppbv	98
74) 1,2,4-Trimethylbenzene	17.06	105	5158391	14.50	ppbv	96
75) 1,3-Dichlorobenzene	17.30	146	3295229	14.90	ppbv	100
76) 1,4-Dichlorobenzene	17.44	146	3353261	15.34	ppbv	100
77) 1,2-Dichlorobenzene	18.12	146	3281938	14.89	ppbv	100
78) Hexachloro-1,3-Butadiene	23.67	225	1167586	12.95	ppbv	99
79) Naphthalene	22.56	128	4288772	17.56	ppbv	98
80) Naphthalene, 2-methyl-	25.21	142	1272281	19.76	ppbv	99
81) 1,2,4-Trichlorobenzene	22.29	180	2182646	16.13	ppbv	98

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

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