

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031857.D
 Acq On : 12 Apr 2018 4:07
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:06:20 PM

Quant Time: Apr 12 04:53:10 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 12 04:53:10 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	1358410	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2847652	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	3266569	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.73	95	2427852	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	3076924	12.127	ppbv	97
3) Chlorodifluoromethane	3.10	51	1567097	8.993	ppbv	98
4) Chloromethane	3.26	50	930249	10.672	ppbv	99
5) Vinyl Chloride	3.39	62	990535	11.290	ppbv	96
6) Bromomethane	3.61	94	700680	11.670	ppbv	96
7) Chloroethane	3.70	64	414222	11.421	ppbv	99
8) Dichlorotetrafluoroethane	3.31	85	2541620	10.881	ppbv	99
9) Propene	3.12	41	698869	10.098	ppbv	100
10) Heptane	8.39	43	2363183	11.448	ppbv	99
11) Trichlorofluoromethane	4.11	101	3333064	13.116	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.67	101	2138392	12.716	ppbv	98
13) Ethanol	3.75	45	184292	8.401	ppbv	100
14) Bromoethene	3.89	108	787821	11.498	ppbv	98
15) Acetone	4.01	43	2203870	9.648	ppbv	99
16) 1,3-Butadiene	3.46	39	875999	10.610	ppbv	95
17) tert-Butyl alcohol	4.47	59	882933	8.519	ppbv	99
18) 1,1-Dichloroethene	4.46	96	977508	12.869	ppbv	98
19) Isopropyl Alcohol	4.13	45	1382515	11.103	ppbv	100
20) Methylene Chloride	4.52	84	899195	11.819	ppbv	97
21) Allyl Chloride	4.59	41	1536751	12.619	ppbv	96
22) trans-1,2-Dichloroethene	5.09	96	1000027	12.317	ppbv	98
23) Vinyl Acetate	5.28	43	2881610	11.564	ppbv	99
24) 1,1-Dichloroethane	5.22	63	2594404	12.287	ppbv	99
25) Ethyl Acetate	5.90	43	4167834	11.844	ppbv	99
26) Hexane	5.91	57	1988429	12.288	ppbv	97
27) Carbon Disulfide	4.74	76	2666473	15.081	ppbv	98
28) Methyl tert-Butyl Ether	5.23	73	2519449	11.502	ppbv	99
29) Chloroform	5.98	83	3183341	12.346	ppbv	97
30) Cyclohexane	7.39	84	1425696	11.035	ppbv	99
31) cis-1,2-Dichloroethene	5.77	61	1916232	12.729	ppbv	100
32) 1,1,1-Trichloroethane	6.76	97	2907062	10.752	ppbv	99
34) 2-Butanone	5.45	43	2664858	13.618	ppbv	100
35) Carbon Tetrachloride	7.28	117	3008003	14.111	ppbv	96
36) Benzene	7.15	78	3500686	13.059	ppbv	98
37) 1,2-Dichloroethane	6.55	62	2426869	13.581	ppbv	99
38) Trichloroethene	8.11	130	1378866	12.708	ppbv	97
39) 1,2-Dichloropropane	7.88	63	1256962	12.972	ppbv	95
40) 1,4-Dioxane	8.10	88	526072	13.517	ppbv	91
41) Tetrahydrofuran	6.28	42	1416479	14.434	ppbv	100
42) Bromodichloromethane	8.06	83	3037481	14.332	ppbv	98
43) Methyl Methacrylate	8.28	69	1328545	14.043	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	5895805	13.511	ppbv	99
45) t-1,3-Dichloropropene	9.57	75	1913267	14.916	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	2274289	14.190	ppbv	99
47) 1,1,2-Trichloroethane	9.76	97	1502986	13.594	ppbv	99
48) Dibromochloromethane	10.60	129	2561681	14.880	ppbv	100
49) Bromoform	13.36	173	2045980	16.177	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	3111995	13.774	ppbv	99
51) 2-Hexanone	10.42	43	2791092	13.348	ppbv	100
52) Tetrachloroethene	11.52	164	1301846	12.039	ppbv	97
53) Toluene	10.10	91	4231961	13.678	ppbv	99
54) 1,2-Dibromoethane	10.91	107	2278904	13.638	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.43	131	1753294	11.653	ppbv #	63
57) Chlorobenzene	12.46	112	3179916	10.835	ppbv	98
58) Ethyl Benzene	13.02	91	5866330	11.273	ppbv	97
59) m/p-Xylene	13.30	91	9575623m	22.304	ppbv	
60) o-Xylene	14.01	91	4906936	11.321	ppbv	99
61) Styrene	13.84	104	1153381	12.024	ppbv	99
62) Isopropylbenzene	14.98	105	6163971	11.223	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	3257200	11.499	ppbv	99
64) n-propylbenzene	15.87	120	1553284	11.751	ppbv	95
65) tert-Butylbenzene	17.06	119	5211204	11.077	ppbv	100
66) Benzyl Chloride	17.31	91	635932	15.850	ppbv	99
67) sec-Butylbenzene	17.61	105	7485650	11.412	ppbv	99
69) p-Isopropyltoluene	17.97	119	5943780	11.275	ppbv	100
70) n-Butylbenzene	18.86	91	6048912	11.615	ppbv	100
71) 2-Chlorotoluene	15.77	91	4640644	11.269	ppbv	99
72) 4-Ethyltoluene	16.15	105	5061665	11.643	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	4575901	11.590	ppbv	97
74) 1,2,4-Trimethylbenzene	17.08	105	4700005	11.065	ppbv	99
75) 1,3-Dichlorobenzene	17.32	146	2846640	10.962	ppbv	100
76) 1,4-Dichlorobenzene	17.47	146	2846235	10.777	ppbv	100
77) 1,2-Dichlorobenzene	18.14	146	2833686	11.276	ppbv	100
78) Hexachloro-1,3-Butadiene	23.69	225	858896	8.247	ppbv	99
79) Naphthalene	22.59	128	2983988	11.131	ppbv	98
80) Naphthalene, 2-methyl-	25.23	142	479029	7.219	ppbv	99
81) 1,2,4-Trichlorobenzene	22.32	180	1456595	9.939	ppbv	99

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

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