

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092418\
 Data File : VL032520.D
 Acq On : 24 Sep 2018 20:21
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

apatel
 9/26/2018 4:47:29 PM

Quant Time: Sep 24 21:07:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 24 2018
 QLast Update : Mon Sep 24 18:32:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1549515	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.33	114	3605694	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3832290m	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2829193	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1312605	6.622	ppbv	99
3) Chlorodifluoromethane	3.03	51	1742517	12.423	ppbv	100
4) Chloromethane	3.19	50	1036063	12.199	ppbv	99
5) Vinyl Chloride	3.31	62	990130	11.811	ppbv	99
6) Bromomethane	3.53	94	578732	13.152	ppbv	99
7) Chloroethane	3.62	64	370367	12.765	ppbv	98
8) Dichlorotetrafluoroethane	3.24	85	1970498	11.201	ppbv	100
9) Propene	3.05	41	808295	14.286	ppbv	100
10) Heptane	8.28	43	3140658	15.473	ppbv	98
11) Trichlorofluoromethane	4.02	101	2265227	12.675	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1841627	15.206	ppbv	99
13) Ethanol	3.67	45	187460	10.629	ppbv	95
14) Bromoethene	3.81	108	717556	13.985	ppbv	100
15) Acetone	3.92	43	1748350	12.530	ppbv	100
16) 1,3-Butadiene	3.38	39	720485	10.973	ppbv	92
17) tert-Butyl alcohol	4.38	59	202564	9.433	ppbv #	100
18) 1,1-Dichloroethene	4.37	96	912419	16.485	ppbv	95
19) Isopropyl Alcohol	4.04	45	1261029	13.776	ppbv	99
20) Methylene Chloride	4.43	84	813176	15.283	ppbv	99
21) Allyl Chloride	4.50	41	1627780	17.564	ppbv	99
22) trans-1,2-Dichloroethene	4.99	96	893803	14.883	ppbv	98
23) Vinyl Acetate	5.18	43	3681013	15.915	ppbv	99
24) 1,1-Dichloroethane	5.12	63	2712620	14.233	ppbv	99
25) Ethyl Acetate	5.80	43	4645082	14.097	ppbv	100
26) Hexane	5.81	57	2171672	14.718	ppbv	99
27) Carbon Disulfide	4.64	76	2430426	17.844	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	2778758	15.339	ppbv	99
29) Chloroform	5.88	83	3146953	13.988	ppbv	100
30) Cyclohexane	7.28	84	1915258	17.728	ppbv	98
31) cis-1,2-Dichloroethene	5.67	61	2243941	16.796	ppbv	98
32) 1,1,1-Trichloroethane	6.65	97	3172205	15.128	ppbv	98
34) 2-Butanone	5.35	43	3049946	12.735	ppbv	99
35) Carbon Tetrachloride	7.16	117	3244474	13.388	ppbv	100
36) Benzene	7.04	78	4258991	13.880	ppbv	99
37) 1,2-Dichloroethane	6.44	62	2467339	13.121	ppbv	99
38) Trichloroethene	7.99	130	1625879	13.949	ppbv	98
39) 1,2-Dichloropropane	7.77	63	1885051	14.358	ppbv	99
40) 1,4-Dioxane	7.98	88	505044	12.822	ppbv	77
41) Tetrahydrofuran	6.17	42	1826946	14.012	ppbv	97
42) Bromodichloromethane	7.95	83	3765264	14.518	ppbv	99
43) Methyl Methacrylate	8.17	69	2010202	15.442	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.02	57	8080029	13.620	ppbv	100
45) t-1,3-Dichloropropene	9.45	75	2538279	18.222	ppbv	100
46) cis-1,3-Dichloropropene	8.87	75	3021446	16.974	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	2062653	14.777	ppbv	99
48) Dibromochloromethane	10.49	129	3412187	17.651	ppbv	100
49) Bromoform	13.24	173	2622888	15.610	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	4879411	13.525	ppbv	99
51) 2-Hexanone	10.30	43	4532920	19.506	ppbv #	99
52) Tetrachloroethene	11.41	164	1471658	15.467	ppbv	99
53) Toluene	9.98	91	5779777	18.020	ppbv	99
54) 1,2-Dibromoethane	10.80	107	3144778	16.780	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.32	131	2189293	12.671	ppbv #	66
57) Chlorobenzene	12.34	112	3935956	12.851	ppbv #	97
58) Ethyl Benzene	12.90	91	7133172	15.554	ppbv	100
59) m/p-Xylene	13.19	91	11531471m	28.204	ppbv	
60) o-Xylene	13.89	91	5689477	14.166	ppbv	99
61) Styrene	13.72	104	4390805	16.887	ppbv	99
62) Isopropylbenzene	14.86	105	8021082	14.207	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	4243605	11.818	ppbv	98
64) n-propylbenzene	15.76	120	2125674	14.402	ppbv	97
65) tert-Butylbenzene	16.95	119	6607670	13.582	ppbv	100
66) Benzyl Chloride	17.19	91	4424085	16.323	ppbv	100
67) sec-Butylbenzene	17.50	105	9832826	13.439	ppbv	100
69) p-Isopropyltoluene	17.85	119	7913849	13.956	ppbv	99
70) n-Butylbenzene	18.75	91	8687504	13.515	ppbv	100
71) 2-Chlorotoluene	15.65	91	6336095	14.690	ppbv	100
72) 4-Ethyltoluene	16.04	105	6716247	15.317	ppbv	100
73) 1,3,5-Trimethylbenzene	16.20	105	6345414	14.444	ppbv	97
74) 1,2,4-Trimethylbenzene	16.97	105	6214545	12.940	ppbv #	91
75) 1,3-Dichlorobenzene	17.21	146	3532508	12.396	ppbv	100
76) 1,4-Dichlorobenzene	17.35	146	3583364	13.552	ppbv	99
77) 1,2-Dichlorobenzene	18.03	146	3553678	12.925	ppbv	99
78) Hexachloro-1,3-Butadiene	23.58	225	1221454	11.890	ppbv	99
79) Naphthalene	22.45	128	6081844	15.572	ppbv	98
80) Naphthalene, 2-methyl-	25.14	142	2400923	23.104	ppbv	99
81) 1,2,4-Trichlorobenzene	22.18	180	2829756	14.386	ppbv	99

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

