

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033561.D
 Acq On : 5 Apr 2019 11:01
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:39 AM

Quant Time: Apr 06 04:19:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1172249	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3139740	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3308661m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2361382	9.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1814894	10.615	ppbv 99
3) Chlorodifluoromethane	3.01	51	1054492	7.814	ppbv 96
4) Chloromethane	3.17	50	604824	8.469	ppbv 99
5) Vinyl Chloride	3.29	62	605121	8.624	ppbv 98
6) Bromomethane	3.51	94	392667	8.708	ppbv 91
7) Chloroethane	3.60	64	218513	8.368	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1441214	7.911	ppbv 95
9) Propene	3.04	41	500881	8.838	ppbv 97
10) Heptane	8.24	43	1279300	8.444	ppbv 99
11) Trichlorofluoromethane	4.00	101	1565862	7.431	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1090096	7.702	ppbv 96
13) Ethanol	3.65	45	164129	11.191	ppbv 64
14) Bromoethene	3.79	108	489989	8.681	ppbv 97
15) Acetone	3.90	43	1029506	7.304	ppbv 97
16) 1,3-Butadiene	3.36	39	505699	9.045	ppbv 93
17) tert-Butyl alcohol	4.35	59	228547	8.819	ppbv 98
18) 1,1-Dichloroethene	4.35	96	504509	8.299	ppbv 95
19) Isopropyl Alcohol	4.02	45	859919	9.645	ppbv 99
20) Methylene Chloride	4.41	84	434928	7.269	ppbv 94
21) Allyl Chloride	4.47	41	747384	8.388	ppbv 97
22) trans-1,2-Dichloroethene	4.96	96	540647	8.524	ppbv 96
23) Vinyl Acetate	5.15	43	1751993	8.733	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1225299	8.040	ppbv 99
25) Ethyl Acetate	5.77	43	2104166	8.046	ppbv 99
26) Hexane	5.78	57	970356	8.345	ppbv 95
27) Carbon Disulfide	4.62	76	1185716	8.575	ppbv 98
28) Methyl tert-Butyl Ether	5.11	73	1502755	8.973	ppbv 100
29) Chloroform	5.85	83	1596755	8.011	ppbv 99
30) Cyclohexane	7.24	84	888335	9.657	ppbv 92
31) cis-1,2-Dichloroethene	5.64	61	1005959	8.702	ppbv 93
32) 1,1,1-Trichloroethane	6.62	97	1557077	8.204	ppbv 99
34) 2-Butanone	5.33	43	1434294	7.603	ppbv 97
35) Carbon Tetrachloride	7.13	117	1629926	7.329	ppbv 98
36) Benzene	7.00	78	2152815	8.172	ppbv 96
37) 1,2-Dichloroethane	6.41	62	1145680	6.488	ppbv # 96
38) Trichloroethene	7.96	130	841519	8.488	ppbv 98
39) 1,2-Dichloropropane	7.73	63	792665	7.681	ppbv 94
40) 1,4-Dioxane	7.95	88	359134	9.757	ppbv # 53
41) Tetrahydrofuran	6.14	42	830613	8.005	ppbv 96
42) Bromodichloromethane	7.91	83	1709234	7.107	ppbv 99
43) Methyl Methacrylate	8.13	69	857079	8.012	ppbv 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3396004	7.377	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	1138920	8.672	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1294906	8.443	ppbv	93
47) 1,1,2-Trichloroethane	9.61	97	887522	7.574	ppbv	99
48) Dibromochloromethane	10.45	129	1522331	7.702	ppbv	100
49) Bromoform	13.20	173	1422569	7.534	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2037673	7.377	ppbv	97
51) 2-Hexanone	10.26	43	1626933	7.896	ppbv #	97
52) Tetrachloroethene	11.37	164	837014	8.421	ppbv	97
53) Toluene	9.94	91	2562988	8.372	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1420121	7.748	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1105995	7.294	ppbv #	49
57) Chlorobenzene	12.30	112	1971241	7.673	ppbv	94
58) Ethyl Benzene	12.86	91	3530526	7.990	ppbv	97
59) m/p-Xylene	13.12	91	5798095m	14.691	ppbv	
60) o-Xylene	13.85	91	2817954	7.384	ppbv	97
61) Styrene	13.68	104	2226334	8.500	ppbv	97
62) Isopropylbenzene	14.82	105	4082234	7.554	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1936215	6.890	ppbv	100
64) n-propylbenzene	15.72	120	1059236	7.724	ppbv	92
65) tert-Butylbenzene	16.90	119	3586081	7.530	ppbv	95
66) Benzyl Chloride	17.16	91	1951750	8.814	ppbv	97
67) sec-Butylbenzene	17.46	105	5111391	7.547	ppbv	99
69) p-Isopropyltoluene	17.81	119	4251766	7.711	ppbv	98
70) n-Butylbenzene	18.71	91	4389414	7.513	ppbv	99
71) 2-Chlorotoluene	15.61	91	3084882	7.507	ppbv	96
72) 4-Ethyltoluene	16.00	105	3355733	7.823	ppbv	98
73) 1,3,5-Trimethylbenzene	16.16	105	3187913	7.766	ppbv	97
74) 1,2,4-Trimethylbenzene	16.92	105	3261264	7.412	ppbv	98
75) 1,3-Dichlorobenzene	17.16	146	1970861	7.247	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1987596	7.501	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	1950474	7.559	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	1247374	7.303	ppbv	99
79) Naphthalene	22.41	128	3173900	8.426	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	632835	5.006	ppbv	97
81) 1,2,4-Trichlorobenzene	22.13	180	1667911	7.983	ppbv	100

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

