

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070819\
 Data File : VL034008.D
 Acq On : 8 Jul 2019 11:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 7/10/2019 8:49:51 AM

Quant Time: Jul 09 04:03:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 09
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1091030	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2763482	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	3115663	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2436717	9.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	1619993	7.195	ppbv 100
3) Chlorodifluoromethane	2.99	51	1191477	8.844	ppbv 99
4) Chloromethane	3.15	50	776308	10.021	ppbv 94
5) Vinyl Chloride	3.27	62	845206	9.703	ppbv 97
6) Bromomethane	3.49	94	529851	10.314	ppbv 95
7) Chloroethane	3.58	64	318569	10.232	ppbv 100
8) Dichlorotetrafluoroethane	3.20	85	2143287	9.764	ppbv 100
9) Propene	3.01	41	458953	9.260	ppbv 97
10) Heptane	8.21	43	1299278	10.470	ppbv 100
11) Trichlorofluoromethane	3.98	101	2296634	9.071	ppbv 97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1665390	9.293	ppbv 99
13) Ethanol	3.63	45	132001	8.573	ppbv 98
14) Bromoethene	3.76	108	712700	10.650	ppbv 99
15) Acetone	3.88	43	1546695	8.432	ppbv 97
16) 1,3-Butadiene	3.34	39	690018	10.653	ppbv 99
17) tert-Butyl alcohol	4.33	59	1385490	9.474	ppbv 99
18) 1,1-Dichloroethene	4.32	96	786349	9.852	ppbv 98
19) Isopropyl Alcohol	3.99	45	1079708	8.769	ppbv 99
20) Methylene Chloride	4.38	84	667839	8.348	ppbv 95
21) Allyl Chloride	4.45	41	1150901	10.063	ppbv 98
22) trans-1,2-Dichloroethene	4.93	96	788083	10.362	ppbv 96
23) Vinyl Acetate	5.12	43	1999767	10.922	ppbv 99
24) 1,1-Dichloroethane	5.06	63	1596702	9.840	ppbv 99
25) Ethyl Acetate	5.74	43	2580927	10.287	ppbv 99
26) Hexane	5.75	57	1184059	10.313	ppbv 98
27) Carbon Disulfide	4.59	76	2033291	10.417	ppbv 100
28) Methyl tert-Butyl Ether	5.08	73	2072001	10.657	ppbv 100
29) Chloroform	5.82	83	2031766	9.417	ppbv 99
30) Cyclohexane	7.21	84	997587	11.251	ppbv 95
31) cis-1,2-Dichloroethene	5.61	61	1210724	10.915	ppbv 96
32) 1,1,1-Trichloroethane	6.59	97	2024416	9.257	ppbv 99
34) 2-Butanone	5.30	43	1554342	10.628	ppbv 99
35) Carbon Tetrachloride	7.10	117	2197032	10.043	ppbv 98
36) Benzene	6.97	78	2373418	10.976	ppbv 98
37) 1,2-Dichloroethane	6.38	62	1560983	9.799	ppbv 100
38) Trichloroethene	7.92	130	1037109	10.779	ppbv 97
39) 1,2-Dichloropropane	7.70	63	847491	10.540	ppbv 94
40) 1,4-Dioxane	7.92	88	377025	10.156	ppbv # 96
41) Tetrahydrofuran	6.12	42	817177	11.393	ppbv 99
42) Bromodichloromethane	7.88	83	2233876	10.451	ppbv 97
43) Methyl Methacrylate	8.10	69	956622	11.660	ppbv 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	3932945	10.537	ppbv	99
45) t-1,3-Dichloropropene	9.38	75	1353588	12.617	ppbv	97
46) cis-1,3-Dichloropropene	8.80	75	1481851	11.926	ppbv	94
47) 1,1,2-Trichloroethane	9.58	97	1075925	10.643	ppbv	94
48) Dibromochloromethane	10.42	129	1958088	10.150	ppbv	100
49) Bromoform	13.16	173	1853404	11.246	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2346143	10.810	ppbv	100
51) 2-Hexanone	10.23	43	1963575	11.219	ppbv #	100
52) Tetrachloroethene	11.33	164	1016134	10.918	ppbv	98
53) Toluene	9.91	91	2977137	12.028	ppbv	99
54) 1,2-Dibromoethane	10.72	107	1672916	11.213	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.25	131	1336074	9.595	ppbv	99
57) Chlorobenzene	12.26	112	2343379	9.447	ppbv	97
58) Ethyl Benzene	12.83	91	4086656	10.907	ppbv	97
59) m/p-Xylene	13.11	91	6771475m	19.960	ppbv	
60) o-Xylene	13.81	91	3601805	10.613	ppbv	100
61) Styrene	13.65	104	2727398	12.143	ppbv	99
62) Isopropylbenzene	14.79	105	4837241	9.272	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.80	83	2501696	9.523	ppbv	100
64) n-propylbenzene	15.68	120	1231192	9.100	ppbv	98
65) tert-Butylbenzene	16.87	119	4122009	9.291	ppbv	99
66) Benzyl Chloride	17.12	91	2313674	10.193	ppbv	100
67) sec-Butylbenzene	17.42	105	5767941	9.262	ppbv	100
69) p-Isopropyltoluene	17.78	119	4795864	9.341	ppbv	100
70) n-Butylbenzene	18.68	91	4957409	9.191	ppbv	99
71) 2-Chlorotoluene	15.58	91	3649054	9.557	ppbv	99
72) 4-Ethyltoluene	15.96	105	3972310	9.114	ppbv	99
73) 1,3,5-Trimethylbenzene	16.12	105	3792959	9.353	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	4009443	8.927	ppbv	96
75) 1,3-Dichlorobenzene	17.13	146	2378527	8.337	ppbv	100
76) 1,4-Dichlorobenzene	17.27	146	2378135	8.850	ppbv	100
77) 1,2-Dichlorobenzene	17.95	146	2289763	8.667	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	2240545	9.967	ppbv	99
79) Naphthalene	22.37	128	3755157	9.944	ppbv	99
80) Naphthalene, 2-methyl-	25.08	142	2119450	15.424	ppbv	97
81) 1,2,4-Trichlorobenzene	22.09	180	2233316	9.209	ppbv	100

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

