

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035342.D
 Acq On : 6 Aug 2020 7:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/7/2020 12:53:26 PM

Quant Time: Aug 07 06:34:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 0
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1458396	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3628312	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3594462	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2941732	9.81	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	1497284	7.719 ppbv	99
3) Chlorodifluoromethane	2.94	51	1487693	8.936 ppbv	99
4) Chloromethane	3.09	50	842767	8.941 ppbv	98
5) Vinyl Chloride	3.21	62	853790	8.806 ppbv	98
6) Bromomethane	3.43	94	533348	8.980 ppbv	97
7) Chloroethane	3.51	64	322274	8.950 ppbv #	89
8) Dichlorotetrafluoroethane	3.14	85	1986618	8.664 ppbv	100
9) Propene	2.96	41	570034	9.609 ppbv	98
10) Heptane	8.12	43	1647809	10.874 ppbv	99
11) Trichlorofluoromethane	3.91	101	2158186	8.587 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.45	101	1535019	8.545 ppbv	99
13) Ethanol	3.56	45	135446	6.620 ppbv	96
14) Bromoethene	3.70	108	661483	9.183 ppbv	97
15) Acetone	3.81	43	1608846	7.768 ppbv	99
16) 1,3-Butadiene	3.28	39	770973	9.672 ppbv	97
17) tert-Butyl alcohol	4.26	59	1657301	8.719 ppbv	100
18) 1,1-Dichloroethene	4.25	96	701146	9.090 ppbv	92
19) Isopropyl Alcohol	3.93	45	1076973	8.204 ppbv	99
20) Methylene Chloride	4.31	84	645611	7.644 ppbv	94
21) Allyl Chloride	4.38	41	1134598	9.562 ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	682566	9.126 ppbv	96
23) Vinyl Acetate	5.05	43	2049581	10.321 ppbv	98
24) 1,1-Dichloroethane	4.99	63	1709249	9.159 ppbv	99
25) Ethyl Acetate	5.65	43	2976804	9.460 ppbv	100
26) Hexane	5.67	57	1335287	9.783 ppbv	100
27) Carbon Disulfide	4.52	76	1869842	9.796 ppbv	100
28) Methyl tert-Butyl Ether	5.00	73	1996915	10.062 ppbv	98
29) Chloroform	5.74	83	2137659	9.084 ppbv	99
30) Cyclohexane	7.12	84	1104204	10.669 ppbv	98
31) cis-1,2-Dichloroethene	5.53	61	1282446	10.569 ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	2112011	8.539 ppbv	100
34) 2-Butanone	5.22	43	1840826	10.304 ppbv	98
35) Carbon Tetrachloride	7.01	117	2269051	9.088 ppbv	99
36) Benzene	6.89	78	2593830	10.587 ppbv	97
37) 1,2-Dichloroethane	6.29	62	1635878	9.557 ppbv	99
38) Trichloroethene	7.84	130	1131236	10.009 ppbv	97
39) 1,2-Dichloropropane	7.61	63	996872	10.051 ppbv	97
40) 1,4-Dioxane	7.83	88	415768	9.788 ppbv #	1
41) Tetrahydrofuran	6.03	42	986810	11.256 ppbv	99
42) Bromodichloromethane	7.79	83	2288900	9.958 ppbv	99
43) Methyl Methacrylate	8.01	69	1171986	11.370 ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	4495215	10.327	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	1341415	12.545	ppbv	91
46) cis-1,3-Dichloropropene	8.71	75	1564116	12.112	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	1168034	9.794	ppbv	98
48) Dibromochloromethane	10.32	129	2031064	10.397	ppbv	100
49) Bromoform	13.07	173	1896006	10.651	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	2820091	10.339	ppbv	99
51) 2-Hexanone	10.14	43	2347934	10.980	ppbv #	100
52) Tetrachloroethene	11.24	164	1001418	10.309	ppbv	96
53) Toluene	9.82	91	3108151	11.662	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1782251	10.417	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	1591521	9.380	ppbv	97
57) Chlorobenzene	12.17	112	2573183	9.507	ppbv	99
58) Ethyl Benzene	12.73	91	4217093	11.275	ppbv	97
59) m/p-Xylene	13.01	91	7153227m	20.539	ppbv	
60) o-Xylene	13.71	91	3642526	10.539	ppbv	99
61) Styrene	13.55	104	2611885	12.374	ppbv	99
62) Isopropylbenzene	14.69	105	5361517	10.303	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2643241	8.965	ppbv	100
64) n-propylbenzene	15.59	120	1487757	10.638	ppbv	97
65) tert-Butylbenzene	16.77	119	4939919	10.367	ppbv	99
66) Benzyl Chloride	17.02	91	2035555	10.793	ppbv	99
67) sec-Butylbenzene	17.33	105	6822235	10.122	ppbv	100
69) p-Isopropyltoluene	17.68	119	5859998	10.664	ppbv	100
70) n-Butylbenzene	18.58	91	5990304	10.192	ppbv	99
71) 2-Chlorotoluene	15.48	91	4200494	11.019	ppbv	100
72) 4-Ethyltoluene	15.87	105	4347301	11.033	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	4117242	10.889	ppbv	99
74) 1,2,4-Trimethylbenzene	16.80	105	4363068	10.096	ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	2623445	9.280	ppbv	100
76) 1,4-Dichlorobenzene	17.18	146	2593161	9.905	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	2497453	9.572	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	2047477	9.224	ppbv	98
79) Naphthalene	22.25	128	4189493	12.604	ppbv	98
80) Naphthalene,2-methyl-	25.00	142	1579813	20.894	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	2324717	11.098	ppbv	100

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

