

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121719\
 Data File : VL034507.D
 Acq On : 18 Dec 2019 9:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/19/2019 3:48:16 PM

Quant Time: Dec 19 01:32:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1002562	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	1998707	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2253551	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1769668	9.33	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.02	85	1213339	6.690	ppbv 98
3) Chlorodifluoromethane	2.95	51	1133870	9.064	ppbv 98
4) Chloromethane	3.11	50	696906	9.445	ppbv 99
5) Vinyl Chloride	3.22	62	640424	9.264	ppbv 91
6) Bromomethane	3.45	94	351468	10.105	ppbv 94
7) Chloroethane	3.53	64	246248	9.814	ppbv 97
8) Dichlorotetrafluoroethane	3.16	85	1503058	9.228	ppbv 100
9) Propene	2.97	41	476670	8.583	ppbv 99
10) Heptane	8.14	43	1283267	8.954	ppbv 98
11) Trichlorofluoromethane	3.93	101	1760874	9.755	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1168225	9.746	ppbv 99
13) Ethanol	3.58	45	129126	8.347	ppbv 96
14) Bromoethene	3.72	108	481961	9.888	ppbv 100
15) Acetone	3.83	43	1495660	10.418	ppbv 97
16) 1,3-Butadiene	3.29	39	587169	9.389	ppbv 98
17) tert-Butyl alcohol	4.28	59	1242031	10.292	ppbv 99
18) 1,1-Dichloroethene	4.27	96	521273	9.941	ppbv 99
19) Isopropyl Alcohol	3.95	45	997636	10.841	ppbv 99
20) Methylene Chloride	4.33	84	452628	8.891	ppbv 92
21) Allyl Chloride	4.39	41	893135	10.382	ppbv 99
22) trans-1,2-Dichloroethene	4.88	96	534768	10.117	ppbv 91
23) Vinyl Acetate	5.07	43	1926749	10.274	ppbv 99
24) 1,1-Dichloroethane	5.00	63	1317084	9.143	ppbv 99
25) Ethyl Acetate	5.68	43	2315219	9.037	ppbv 100
26) Hexane	5.69	57	985536	8.953	ppbv 99
27) Carbon Disulfide	4.54	76	1357336	11.321	ppbv 99
28) Methyl tert-Butyl Ether	5.02	73	1712414	9.381	ppbv 100
29) Chloroform	5.75	83	1629712	9.142	ppbv 98
30) Cyclohexane	7.15	84	778847	9.359	ppbv 100
31) cis-1,2-Dichloroethene	5.55	61	1057757	9.299	ppbv 98
32) 1,1,1-Trichloroethane	6.52	97	1698989	10.165	ppbv 98
34) 2-Butanone	5.24	43	1528746	9.292	ppbv 99
35) Carbon Tetrachloride	7.03	117	1819788	10.590	ppbv 96
36) Benzene	6.91	78	1868573	9.352	ppbv 96
37) 1,2-Dichloroethane	6.32	62	1424524	9.597	ppbv 100
38) Trichloroethene	7.86	130	768683	9.375	ppbv 95
39) 1,2-Dichloropropane	7.63	63	758990	9.860	ppbv 96
40) 1,4-Dioxane	7.85	88	327180m	9.730	ppbv
41) Tetrahydrofuran	6.05	42	835140	9.050	ppbv 100
42) Bromodichloromethane	7.82	83	1822833	9.819	ppbv 98
43) Methyl Methacrylate	8.03	69	796683	9.614	ppbv 99

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44) 2,2,4-Trimethylpentane	7.89	57	3354020	9.186	ppbv	100
45) t-1,3-Dichloropropene	9.31	75	1120939	10.547	ppbv	100
46) cis-1,3-Dichloropropene	8.73	75	1227474	10.283	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	789550	9.221	ppbv	97
48) Dibromochloromethane	10.34	129	1503736	10.228	ppbv	100
49) Bromoform	13.09	173	1320998	10.066	ppbv	99
50) 4-Methyl-2-Pentanone	8.76	43	2256054	9.478	ppbv	100
51) 2-Hexanone	10.17	43	1869316	9.375	ppbv #	98
52) Tetrachloroethene	11.26	164	710277	8.216	ppbv	98
53) Toluene	9.84	91	2139287	9.426	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1218234	9.280	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.17	131	1008833	9.152	ppbv	98
57) Chlorobenzene	12.19	112	1687458	8.284	ppbv	99
58) Ethyl Benzene	12.75	91	2955594	8.451	ppbv	100
59) m/p-Xylene	13.04	91	4932116m	16.315	ppbv	
60) o-Xylene	13.74	91	2492377	8.339	ppbv	100
61) Styrene	13.57	104	1786934	8.290	ppbv	98
62) Isopropylbenzene	14.72	105	3194663	8.082	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	1710944	7.615	ppbv	100
64) n-propylbenzene	15.61	120	836445	8.148	ppbv	97
65) tert-Butylbenzene	16.80	119	2858582	8.050	ppbv	99
66) Benzyl Chloride	17.05	91	1414691	10.356	ppbv	100
67) sec-Butylbenzene	17.35	105	3948082	7.949	ppbv	100
69) p-Isopropyltoluene	17.71	119	3343407	8.111	ppbv	100
70) n-Butylbenzene	18.61	91	3537415	7.975	ppbv	100
71) 2-Chlorotoluene	15.51	91	2499069	7.929	ppbv	99
72) 4-Ethyltoluene	15.89	105	2786775	8.069	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	2706295	8.006	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	2816899	7.844	ppbv #	90
75) 1,3-Dichlorobenzene	17.06	146	1581910	7.664	ppbv	99
76) 1,4-Dichlorobenzene	17.20	146	1588382	7.925	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1557196	7.811	ppbv	99
78) Hexachloro-1,3-Butadiene	23.44	225	1622045	9.470	ppbv	99
79) Naphthalene	22.28	128	3028224	9.728	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	1557047	11.077	ppbv	98
81) 1,2,4-Trichlorobenzene	22.01	180	1775233	9.283	ppbv	100

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

