

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012720\
 Data File : VL034566.D
 Acq On : 27 Jan 2020 20:10
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/28/2020 2:03:13 PM

Quant Time: Jan 28 02:43:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 09 03:01:19 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1122844	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2261076	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2419371	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1924163	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	1411712	7.972	ppbv	98
3) Chlorodifluoromethane	2.95	51	1277245	9.547	ppbv	98
4) Chloromethane	3.11	50	678081	8.533	ppbv	100
5) Vinyl Chloride	3.23	62	676217	8.690	ppbv	97
6) Bromomethane	3.45	94	403177	10.409	ppbv	99
7) Chloroethane	3.53	64	256997	9.477	ppbv	99
8) Dichlorotetrafluoroethane	3.16	85	1651520	9.299	ppbv	99
9) Propene	2.98	41	461310	8.944	ppbv	98
10) Heptane	8.14	43	1338068	10.046	ppbv	99
11) Trichlorofluoromethane	3.93	101	1962797	9.579	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1291463	9.909	ppbv	99
13) Ethanol	3.57	45	139395	9.740	ppbv	100
14) Bromoethene	3.72	108	519632	9.857	ppbv	99
15) Acetone	3.83	43	1371521	8.370	ppbv	98
16) 1,3-Butadiene	3.30	39	622838	9.882	ppbv	99
17) tert-Butyl alcohol	4.28	59	1382034	10.533	ppbv	99
18) 1,1-Dichloroethene	4.27	96	581140	10.236	ppbv	91
19) Isopropyl Alcohol	3.95	45	1066093	10.050	ppbv	99
20) Methylene Chloride	4.33	84	495313	7.682	ppbv	97
21) Allyl Chloride	4.40	41	937251	9.951	ppbv	99
22) trans-1,2-Dichloroethene	4.88	96	556509	9.637	ppbv	98
23) Vinyl Acetate	5.07	43	1862524	9.845	ppbv	99
24) 1,1-Dichloroethane	5.01	63	1409525	9.274	ppbv	99
25) Ethyl Acetate	5.68	43	2333321	9.118	ppbv	100
26) Hexane	5.69	57	1034708	9.596	ppbv	96
27) Carbon Disulfide	4.54	76	1442551	10.584	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1755972	9.750	ppbv	99
29) Chloroform	5.76	83	1755343	9.408	ppbv	97
30) Cyclohexane	7.15	84	814208	10.159	ppbv	99
31) cis-1,2-Dichloroethene	5.55	61	1091028	9.929	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	1842269	9.512	ppbv	100
34) 2-Butanone	5.24	43	1515991	9.382	ppbv	100
35) Carbon Tetrachloride	7.03	117	1984970	9.680	ppbv	98
36) Benzene	6.91	78	1907527	9.678	ppbv	100
37) 1,2-Dichloroethane	6.32	62	1529296	9.555	ppbv	99
38) Trichloroethene	7.86	130	819883	10.298	ppbv	97
39) 1,2-Dichloropropane	7.63	63	783961	9.673	ppbv	95
40) 1,4-Dioxane	7.85	88	313516	9.558	ppbv #	99
41) Tetrahydrofuran	6.05	42	822683	9.925	ppbv	98
42) Bromodichloromethane	7.82	83	1962992	9.967	ppbv	95
43) Methyl Methacrylate	8.03	69	828453	10.304	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	3484679	9.557	ppbv	99
45) t-1,3-Dichloropropene	9.31	75	1117056	10.786	ppbv	99
46) cis-1,3-Dichloropropene	8.73	75	1237976	10.457	ppbv	98
47) 1,1,2-Trichloroethane	9.51	97	861017	9.637	ppbv	94
48) Dibromochloromethane	10.34	129	1656474	10.695	ppbv	99
49) Bromoform	13.09	173	1507896	10.754	ppbv	100
50) 4-Methyl-2-Pentanone	8.76	43	2312254	9.858	ppbv	100
51) 2-Hexanone	10.16	43	1925767	10.171	ppbv #	100
52) Tetrachloroethene	11.26	164	767589	9.979	ppbv	99
53) Toluene	9.83	91	2282113	10.539	ppbv	99
54) 1,2-Dibromoethane	10.65	107	1378074	10.600	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.17	131	1134831	9.717	ppbv	97
57) Chlorobenzene	12.19	112	1831270	9.175	ppbv	99
58) Ethyl Benzene	12.76	91	3218655	9.865	ppbv	99
59) m/p-Xylene	13.04	91	5441567m	19.072	ppbv	
60) o-Xylene	13.74	91	2791914	9.751	ppbv	100
61) Styrene	13.57	104	1938156	9.901	ppbv	100
62) Isopropylbenzene	14.72	105	3590538	9.587	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.73	83	2015518	8.776	ppbv	99
64) n-propylbenzene	15.62	120	958913	10.027	ppbv	99
65) tert-Butylbenzene	16.80	119	3395404	10.035	ppbv	99
66) Benzyl Chloride	17.05	91	1647165	11.108	ppbv	100
67) sec-Butylbenzene	17.35	105	4596633	9.674	ppbv	99
69) p-Isopropyltoluene	17.71	119	3875583	10.057	ppbv	100
70) n-Butylbenzene	18.61	91	4101821	9.864	ppbv	100
71) 2-Chlorotoluene	15.51	91	2851698	9.805	ppbv	99
72) 4-Ethyltoluene	15.90	105	3158561	9.859	ppbv	99
73) 1,3,5-Trimethylbenzene	16.05	105	3072264	9.774	ppbv	97
74) 1,2,4-Trimethylbenzene	16.82	105	3242152	9.642	ppbv	97
75) 1,3-Dichlorobenzene	17.06	146	1846784	9.170	ppbv	98
76) 1,4-Dichlorobenzene	17.20	146	1815202	9.362	ppbv	99
77) 1,2-Dichlorobenzene	17.88	146	1805240	9.538	ppbv	100
78) Hexachloro-1,3-Butadiene	23.44	225	1508793	8.398	ppbv	99
79) Naphthalene	22.28	128	2580504	10.189	ppbv	98
80) Naphthalene, 2-methyl-	25.03	142	705468	10.056	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.01	180	1523188	9.237	ppbv	99

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

