

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034314.D
 Acq On : 17 Oct 2019 9:34
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:17 PM

Quant Time: Oct 17 14:52:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 14:52:35 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1117928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2171847	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2439906	10.00	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.50	95	1971962	9.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1303791	6.765	ppbv	100
3) Chlorodifluoromethane	2.97	51	1246391	9.512	ppbv	99
4) Chloromethane	3.13	50	738845	9.533	ppbv	96
5) Vinyl Chloride	3.25	62	691991	9.363	ppbv	100
6) Bromomethane	3.47	94	364275	10.066	ppbv	98
7) Chloroethane	3.55	64	255093	9.807	ppbv	100
8) Dichlorotetrafluoroethane	3.18	85	1560821	9.346	ppbv	99
9) Propene	2.99	41	553767	9.534	ppbv	97
10) Heptane	8.18	43	1545307	10.365	ppbv	99
11) Trichlorofluoromethane	3.95	101	1762359	9.631	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1181750	9.858	ppbv	99
13) Ethanol	3.60	45	133258	10.247	ppbv	96
14) Bromoethene	3.74	108	481822	10.208	ppbv	97
15) Acetone	3.85	43	1340165	8.381	ppbv	100
16) 1,3-Butadiene	3.32	39	646163	9.945	ppbv	99
17) tert-Butyl alcohol	4.30	59	1195269	11.712	ppbv	99
18) 1,1-Dichloroethene	4.29	96	526718	10.035	ppbv	95
19) Isopropyl Alcohol	3.97	45	1029703	11.543	ppbv	100
20) Methylene Chloride	4.35	84	470566	8.140	ppbv	94
21) Allyl Chloride	4.42	41	922946	10.441	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	541778	10.348	ppbv	91
23) Vinyl Acetate	5.10	43	2040916	10.220	ppbv	99
24) 1,1-Dichloroethane	5.03	63	1435434	9.685	ppbv	99
25) Ethyl Acetate	5.71	43	2604281	9.647	ppbv	99
26) Hexane	5.72	57	1135820	9.871	ppbv	97
27) Carbon Disulfide	4.56	76	1376805	11.526	ppbv	98
28) Methyl tert-Butyl Ether	5.05	73	1741776	10.002	ppbv	99
29) Chloroform	5.79	83	1770049	9.725	ppbv	98
30) Cyclohexane	7.18	84	865747	10.231	ppbv	99
31) cis-1,2-Dichloroethene	5.58	61	1193866	10.224	ppbv	97
32) 1,1,1-Trichloroethane	6.56	97	1739392	9.827	ppbv	99
34) 2-Butanone	5.27	43	1734839	9.773	ppbv	100
35) Carbon Tetrachloride	7.06	117	1858229	9.823	ppbv	99
36) Benzene	6.94	78	2058696	9.879	ppbv	99
37) 1,2-Dichloroethane	6.35	62	1513471	9.745	ppbv	100
38) Trichloroethene	7.89	130	815781	9.756	ppbv	96
39) 1,2-Dichloropropane	7.67	63	874952	9.751	ppbv	96
40) 1,4-Dioxane	7.88	88	333854	10.588	ppbv	98
41) Tetrahydrofuran	6.08	42	986532	10.014	ppbv	98
42) Bromodichloromethane	7.85	83	1946206	10.231	ppbv	100
43) Methyl Methacrylate	8.07	69	914866	10.615	ppbv	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	3746832	9.715	ppbv	99
45) t-1,3-Dichloropropene	9.35	75	1225288	11.669	ppbv	99
46) cis-1,3-Dichloropropene	8.76	75	1369503	11.352	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	874210	9.619	ppbv	98
48) Dibromochloromethane	10.37	129	1608272	10.787	ppbv	100
49) Bromoform	13.13	173	1445495	10.942	ppbv	100
50) 4-Methyl-2-Pentanone	8.80	43	2599378	10.228	ppbv	99
51) 2-Hexanone	10.20	43	2193265	10.528	ppbv	100
52) Tetrachloroethene	11.30	164	786987m	9.635	ppbv	
53) Toluene	9.87	91	2370414	10.308	ppbv	98
54) 1,2-Dibromoethane	10.68	107	1357134	10.075	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.21	131	1062342	9.448	ppbv	98
57) Chlorobenzene	12.22	112	1838330	9.031	ppbv	100
58) Ethyl Benzene	12.79	91	3294954	9.661	ppbv	96
59) m/p-Xylene	13.08	91	5455393m	18.461	ppbv	
60) o-Xylene	13.78	91	2764454	9.394	ppbv	100
61) Styrene	13.61	104	2069789	9.991	ppbv	99
62) Isopropylbenzene	14.75	105	3573389	9.199	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.77	83	1913023	8.090	ppbv	99
64) n-propylbenzene	15.65	120	946670	9.496	ppbv	98
65) tert-Butylbenzene	16.84	119	3130067	9.091	ppbv	99
66) Benzyl Chloride	17.09	91	1489216	10.952	ppbv	100
67) sec-Butylbenzene	17.38	105	4366669	9.013	ppbv	99
69) p-Isopropyltoluene	17.74	119	3626480	9.181	ppbv	99
70) n-Butylbenzene	18.64	91	3872969	9.012	ppbv	99
71) 2-Chlorotoluene	15.55	91	2836636	9.418	ppbv	100
72) 4-Ethyltoluene	15.93	105	3105400	9.388	ppbv	99
73) 1,3,5-Trimethylbenzene	16.09	105	3040494	9.277	ppbv	96
74) 1,2,4-Trimethylbenzene	16.85	105	3103087	9.079	ppbv	96
75) 1,3-Dichlorobenzene	17.09	146	1770936	8.630	ppbv	100
76) 1,4-Dichlorobenzene	17.23	146	1775471	8.858	ppbv	100
77) 1,2-Dichlorobenzene	17.92	146	1691354	8.407	ppbv	99
78) Hexachloro-1,3-Butadiene	23.48	225	1601011	9.620	ppbv	99
79) Naphthalene	22.33	128	3005873	12.040	ppbv	99
80) Naphthalene, 2-methyl-	25.06	142	1600397	22.176	ppbv	95
81) 1,2,4-Trichlorobenzene	22.05	180	1742589	10.686	ppbv	99

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

