

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033112.D
 Acq On : 17 Jan 2019 4:29
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:17:45 PM

Quant Time: Jan 17 06:33:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1102977	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2817839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2767887	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1987756	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2289122	11.152	ppbv	100
3) Chlorodifluoromethane	3.01	51	1273977	10.204	ppbv	99
4) Chloromethane	3.17	50	722456	10.103	ppbv	97
5) Vinyl Chloride	3.29	62	735575	10.185	ppbv	99
6) Bromomethane	3.51	94	479840	9.780	ppbv	97
7) Chloroethane	3.60	64	278481	9.860	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1808369	10.228	ppbv	100
9) Propene	3.04	41	545340	11.692	ppbv	99
10) Heptane	8.25	43	1380751	10.397	ppbv	100
11) Trichlorofluoromethane	4.00	101	1914298	8.440	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1321633	9.215	ppbv	100
13) Ethanol	3.65	45	112237	6.034	ppbv	98
14) Bromoethene	3.79	108	614712	9.704	ppbv	97
15) Acetone	3.90	43	1422286	9.316	ppbv	98
16) 1,3-Butadiene	3.36	39	637503	11.073	ppbv	95
17) tert-Butyl alcohol	4.36	59	310809	9.611	ppbv	100
18) 1,1-Dichloroethene	4.35	96	614372	9.300	ppbv	99
19) Isopropyl Alcohol	4.02	45	752077	7.156	ppbv	100
20) Methylene Chloride	4.41	84	525408	8.255	ppbv	99
21) Allyl Chloride	4.48	41	970463	10.258	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	616081	9.408	ppbv	99
23) Vinyl Acetate	5.15	43	2063983	10.627	ppbv	98
24) 1,1-Dichloroethane	5.09	63	1527354	9.262	ppbv	99
25) Ethyl Acetate	5.77	43	2433478	9.430	ppbv	100
26) Hexane	5.78	57	1138919	9.373	ppbv	100
27) Carbon Disulfide	4.62	76	1541120	10.284	ppbv	98
28) Methyl tert-Butyl Ether	5.11	73	1943570	10.247	ppbv	100
29) Chloroform	5.85	83	1861512	8.990	ppbv	100
30) Cyclohexane	7.25	84	993945	10.971	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1190677	10.553	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1975693	9.401	ppbv	99
34) 2-Butanone	5.33	43	1555949	9.503	ppbv	100
35) Carbon Tetrachloride	7.13	117	2144064	8.858	ppbv	99
36) Benzene	7.00	78	2385104	10.333	ppbv	99
37) 1,2-Dichloroethane	6.41	62	1449068	8.992	ppbv	99
38) Trichloroethene	7.96	130	950950	10.015	ppbv	96
39) 1,2-Dichloropropane	7.73	63	864949	9.975	ppbv	100
40) 1,4-Dioxane	7.95	88	314243	9.547	ppbv	97
41) Tetrahydrofuran	6.15	42	872793	10.474	ppbv	98
42) Bromodichloromethane	7.92	83	2014065	9.097	ppbv	99
43) Methyl Methacrylate	8.14	69	922384	10.650	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3843648	9.833	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1222267	11.337	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1440788	11.709	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	944103	9.319	ppbv	99
48) Dibromochloromethane	10.45	129	1728192	9.655	ppbv	100
49) Bromoform	13.20	173	1377543	8.809	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2150845	10.368	ppbv	99
51) 2-Hexanone	10.27	43	1618561	10.783	ppbv #	99
52) Tetrachloroethene	11.37	164	825022	10.112	ppbv	97
53) Toluene	9.95	91	2678170	10.827	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1452184	9.949	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1198585	8.381	ppbv	99
57) Chlorobenzene	12.30	112	2011303	8.706	ppbv	99
58) Ethyl Benzene	12.87	91	3520034	10.073	ppbv	100
59) m/p-Xylene	13.15	91	5961237m	18.440	ppbv	
60) o-Xylene	13.85	91	2830580	8.944	ppbv	99
61) Styrene	13.69	104	2118051	10.488	ppbv	99
62) Isopropylbenzene	14.83	105	3983998	8.845	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1862734	7.923	ppbv	100
64) n-propylbenzene	15.72	120	1014819	8.869	ppbv	98
65) tert-Butylbenzene	16.91	119	3498115	8.768	ppbv	99
66) Benzyl Chloride	17.16	91	2012473	8.851	ppbv	100
67) sec-Butylbenzene	17.46	105	4952625	8.675	ppbv	100
69) p-Isopropyltoluene	17.82	119	4180308	9.021	ppbv	100
70) n-Butylbenzene	18.71	91	4298702	9.228	ppbv	99
71) 2-Chlorotoluene	15.62	91	2931504	9.178	ppbv	99
72) 4-Ethyltoluene	16.00	105	3226284	9.276	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3075719	8.963	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3193799	8.403	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1851096	8.274	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1808797	8.876	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1809863	8.983	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1579733	10.209	ppbv	100
79) Naphthalene	22.41	128	3792310	11.846	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	939670	9.672	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1755950	11.354	ppbv	99

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

