

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033067.D
 Acq On : 4 Jan 2019 13:12
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:02:06 AM

Quant Time: Jan 04 14:13:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 0
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1184706	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2885946	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2907554m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.59	95	2158978	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2276700	8.618	ppbv	100
3) Chlorodifluoromethane	3.02	51	1242270	8.615	ppbv	99
4) Chloromethane	3.17	50	654573	7.810	ppbv	99
5) Vinyl Chloride	3.30	62	686731	7.715	ppbv	99
6) Bromomethane	3.52	94	463565	8.556	ppbv	98
7) Chloroethane	3.60	64	257935	8.434	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1755602	8.342	ppbv	100
9) Propene	3.04	41	468617	8.375	ppbv	100
10) Heptane	8.26	43	1339438	9.358	ppbv	100
11) Trichlorofluoromethane	4.01	101	1983455	8.535	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1360184	8.660	ppbv	99
13) Ethanol	3.65	45	123762	5.677	ppbv	93
14) Bromoethene	3.79	108	591531	8.843	ppbv	99
15) Acetone	3.90	43	1252693	8.085	ppbv	99
16) 1,3-Butadiene	3.37	39	551263	8.166	ppbv	96
17) tert-Butyl alcohol	4.36	59	303954	8.782	ppbv	99
18) 1,1-Dichloroethene	4.36	96	614534	8.731	ppbv	98
19) Isopropyl Alcohol	4.03	45	808220	7.808	ppbv	99
20) Methylene Chloride	4.41	84	526295	7.676	ppbv	99
21) Allyl Chloride	4.48	41	948444	9.001	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	609624	8.869	ppbv	98
23) Vinyl Acetate	5.16	43	1887693	8.816	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1473316	8.289	ppbv	99
25) Ethyl Acetate	5.77	43	2387922	8.607	ppbv	99
26) Hexane	5.79	57	1106915	8.418	ppbv	99
27) Carbon Disulfide	4.62	76	1532052	9.317	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	1791563	8.697	ppbv	100
29) Chloroform	5.86	83	1919041	8.801	ppbv	99
30) Cyclohexane	7.26	84	935562	9.472	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1097369	9.009	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1967295	8.551	ppbv	99
34) 2-Butanone	5.33	43	1479259	8.779	ppbv	100
35) Carbon Tetrachloride	7.14	117	2172828	8.721	ppbv	98
36) Benzene	7.01	78	2183013	9.194	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1483181	9.181	ppbv	99
38) Trichloroethene	7.97	130	925817	9.335	ppbv	98
39) 1,2-Dichloropropane	7.74	63	811639	9.112	ppbv	97
40) 1,4-Dioxane	7.96	88	290928	8.605	ppbv	89
41) Tetrahydrofuran	6.15	42	817922	9.520	ppbv	99
42) Bromodichloromethane	7.92	83	2035716	8.759	ppbv	99
43) Methyl Methacrylate	8.15	69	888145	10.032	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3693773	8.786	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1247211	10.194	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1404819	10.562	ppbv	97
47) 1,1,2-Trichloroethane	9.62	97	943412	8.773	ppbv	98
48) Dibromochloromethane	10.46	129	1793958	10.060	ppbv	100
49) Bromoform	13.21	173	1546815	9.410	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2113779	9.331	ppbv	100
51) 2-Hexanone	10.28	43	1630156	10.651	ppbv	99
52) Tetrachloroethene	11.38	164	816629	9.501	ppbv	98
53) Toluene	9.95	91	2623165	10.732	ppbv	99
54) 1,2-Dibromoethane	10.77	107	1483752	9.498	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.29	131	1279453	8.695	ppbv	97
57) Chlorobenzene	12.31	112	2064218	8.756	ppbv	98
58) Ethyl Benzene	12.87	91	3613568	10.103	ppbv	99
59) m/p-Xylene	13.16	91	6215657m	18.712	ppbv	
60) o-Xylene	13.86	91	3064652	9.438	ppbv	99
61) Styrene	13.69	104	2236033	10.678	ppbv	99
62) Isopropylbenzene	14.83	105	4231908	9.125	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2078848	8.179	ppbv	99
64) n-propylbenzene	15.73	120	1083212	9.471	ppbv	99
65) tert-Butylbenzene	16.92	119	3766242	9.123	ppbv	99
66) Benzyl Chloride	17.16	91	2305181	9.935	ppbv	100
67) sec-Butylbenzene	17.47	105	5374497	9.233	ppbv	100
69) p-Isopropyltoluene	17.82	119	4423181	9.393	ppbv	100
70) n-Butylbenzene	18.72	91	4400440	9.157	ppbv	100
71) 2-Chlorotoluene	15.62	91	3170830	9.651	ppbv	99
72) 4-Ethyltoluene	16.01	105	3478768	9.615	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3310337	9.373	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3429955	8.842	ppbv	92
75) 1,3-Dichlorobenzene	17.17	146	1917804	8.443	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	1872540	9.062	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1822738	8.766	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1051904	7.198	ppbv	99
79) Naphthalene	22.42	128	3246051	9.211	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1216479	12.448	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1518195	9.459	ppbv	99

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

