

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051719\
 Data File : VL033700.D
 Acq On : 17 May 2019 1:59
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/20/2019 12:04:54 PM

Quant Time: May 17 07:50:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 17 2019
 QLast Update : Fri May 17 07:07:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1051280	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2501234	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2449943m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1983802	9.88	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1901781	7.914	ppbv	100
3) Chlorodifluoromethane	3.01	51	1140987	7.564	ppbv	100
4) Chloromethane	3.17	50	660982	8.423	ppbv	100
5) Vinyl Chloride	3.29	62	648170	8.482	ppbv	100
6) Bromomethane	3.51	94	423232	8.700	ppbv	100
7) Chloroethane	3.60	64	241364	8.681	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1670183	8.297	ppbv	100
9) Propene	3.03	41	509901	8.831	ppbv	100
10) Heptane	8.24	43	1424737	9.957	ppbv	100
11) Trichlorofluoromethane	4.00	101	2088194	9.027	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1443182	9.250	ppbv	100
13) Ethanol	3.64	45	130589	7.426	ppbv	100
14) Bromoethene	3.78	108	526957	8.750	ppbv	100
15) Acetone	3.90	43	1321766	8.398	ppbv	100
16) 1,3-Butadiene	3.36	39	565787	8.566	ppbv	100
17) tert-Butyl alcohol	4.35	59	1227478	10.136	ppbv	100
18) 1,1-Dichloroethene	4.35	96	630599	9.385	ppbv	100
19) Isopropyl Alcohol	4.02	45	969250	9.863	ppbv	100
20) Methylene Chloride	4.41	84	520218	8.742	ppbv	100
21) Allyl Chloride	4.48	41	940922	9.842	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	609227	9.142	ppbv	100
23) Vinyl Acetate	5.15	43	1976967	9.744	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1365989	8.912	ppbv	100
25) Ethyl Acetate	5.76	43	2471695	9.642	ppbv	100
26) Hexane	5.78	57	1093223	9.917	ppbv	100
27) Carbon Disulfide	4.62	76	1608504	10.629	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1794779	9.747	ppbv	100
29) Chloroform	5.85	83	1856904	9.391	ppbv	100
30) Cyclohexane	7.25	84	948099	10.302	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	1058458	9.769	ppbv	100
32) 1,1,1-Trichloroethane	6.61	97	1959726	9.630	ppbv	100
34) 2-Butanone	5.33	43	1558459	9.711	ppbv	100
35) Carbon Tetrachloride	7.13	117	2061441	10.016	ppbv	100
36) Benzene	7.00	78	2333922	10.327	ppbv	100
37) 1,2-Dichloroethane	6.41	62	1441332	9.149	ppbv	100
38) Trichloroethene	7.96	130	912645	11.068	ppbv	100
39) 1,2-Dichloropropane	7.73	63	862673	10.241	ppbv	100
40) 1,4-Dioxane	7.95	88	366322	10.748	ppbv #	100
41) Tetrahydrofuran	6.15	42	934508	11.126	ppbv	100
42) Bromodichloromethane	7.92	83	2040565	10.078	ppbv	100
43) Methyl Methacrylate	8.13	69	915319	10.793	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3899977	10.108	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1281681	12.234	ppbv	100
46) cis-1,3-Dichloropropene	8.83	75	1461909	11.226	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	965568	9.982	ppbv	100
48) Dibromochloromethane	10.45	129	1810795	11.015	ppbv	100
49) Bromoform	13.20	173	1514704	10.770	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2538903	10.434	ppbv	100
51) 2-Hexanone	10.27	43	2096794	11.067	ppbv	100
52) Tetrachloroethene	11.37	164	892540	11.134	ppbv	100
53) Toluene	9.95	91	2741546	11.194	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1546099	10.584	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	1134286	9.956	ppbv	95
57) Chlorobenzene	12.30	112	1983907	9.767	ppbv	100
58) Ethyl Benzene	12.86	91	3569532	11.063	ppbv	100
59) m/p-Xylene	13.15	91	5966724m	20.989	ppbv	
60) o-Xylene	13.85	91	2979946	10.386	ppbv	100
61) Styrene	13.68	104	2236579	11.678	ppbv	100
62) Isopropylbenzene	14.82	105	4005063	10.203	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2042256	9.812	ppbv	100
64) n-propylbenzene	15.72	120	1043780	10.310	ppbv	100
65) tert-Butylbenzene	16.91	119	3703037	10.287	ppbv	100
66) Benzyl Chloride	17.15	91	2062995	12.520	ppbv	100
67) sec-Butylbenzene	17.46	105	5140743	10.259	ppbv	100
69) p-Isopropyltoluene	17.82	119	4367924	10.568	ppbv	100
70) n-Butylbenzene	18.71	91	4577977	10.481	ppbv	100
71) 2-Chlorotoluene	15.61	91	3049177	10.526	ppbv	100
72) 4-Ethyltoluene	16.00	105	3551992	10.543	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3352990	10.306	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3571952	9.849	ppbv	100
75) 1,3-Dichlorobenzene	17.16	146	2082590	9.540	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2075174	10.017	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2011834	9.928	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	1380773	8.593	ppbv	100
79) Naphthalene	22.41	128	3683380	11.115	ppbv	100
80) Naphthalene, 2-methyl-	25.11	142	1639755	12.961	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1995008	10.352	ppbv	100

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

