

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033326.D
 Acq On : 15 Mar 2019 10:25
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:14 AM

Quant Time: Mar 15 12:52:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	856212	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1991733	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2356838m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1663558	9.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	1456697	9.397	ppbv	100
3) Chlorodifluoromethane	3.02	51	929233	9.482	ppbv	100
4) Chloromethane	3.17	50	492344	9.243	ppbv	100
5) Vinyl Chloride	3.29	62	482667	8.932	ppbv	100
6) Bromomethane	3.52	94	316306	9.652	ppbv	100
7) Chloroethane	3.60	64	178086	9.189	ppbv	100
8) Dichlorotetrafluoroethane	3.22	85	1206481	9.132	ppbv	100
9) Propene	3.04	41	400495	9.115	ppbv	100
10) Heptane	8.25	43	1065248	9.604	ppbv	100
11) Trichlorofluoromethane	4.01	101	1418277	9.634	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	938539	9.733	ppbv	100
13) Ethanol	3.65	45	89645	5.868	ppbv	99
14) Bromoethene	3.79	108	392440	9.621	ppbv	100
15) Acetone	3.90	43	928899	7.086	ppbv	100
16) 1,3-Butadiene	3.36	39	409223	8.891	ppbv	100
17) tert-Butyl alcohol	4.36	59	163805	8.760	ppbv	100
18) 1,1-Dichloroethene	4.35	96	422610	9.895	ppbv	100
19) Isopropyl Alcohol	4.02	45	550835	8.375	ppbv	100
20) Methylene Chloride	4.41	84	353757	8.423	ppbv	100
21) Allyl Chloride	4.48	41	650331	10.027	ppbv	100
22) trans-1,2-Dichloroethene	4.97	96	424715	10.010	ppbv	100
23) Vinyl Acetate	5.16	43	1504143	9.825	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1050011	9.624	ppbv	100
25) Ethyl Acetate	5.77	43	1807302	9.526	ppbv	100
26) Hexane	5.78	57	798421	9.197	ppbv	100
27) Carbon Disulfide	4.62	76	1043072	10.650	ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	1258899	10.069	ppbv	100
29) Chloroform	5.85	83	1338995	9.463	ppbv	100
30) Cyclohexane	7.25	84	678472	9.870	ppbv	100
31) cis-1,2-Dichloroethene	5.64	61	853011	9.915	ppbv	100
32) 1,1,1-Trichloroethane	6.62	97	1375723	9.795	ppbv	100
34) 2-Butanone	5.33	43	1191766	9.434	ppbv	100
35) Carbon Tetrachloride	7.14	117	1396355	9.714	ppbv	100
36) Benzene	7.01	78	1699383	9.546	ppbv	100
37) 1,2-Dichloroethane	6.42	62	1053756	9.494	ppbv	100
38) Trichloroethene	7.97	130	640296	9.138	ppbv	100
39) 1,2-Dichloropropane	7.74	63	643787	9.503	ppbv	100
40) 1,4-Dioxane	7.96	88	219037	8.827	ppbv	100
41) Tetrahydrofuran	6.15	42	696935	9.948	ppbv	100
42) Bromodichloromethane	7.92	83	1506935	9.961	ppbv	100
43) Methyl Methacrylate	8.14	69	699512	10.078	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	2830506	9.480	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	984897	11.582	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1080794	10.819	ppbv	100
47) 1,1,2-Trichloroethane	9.62	97	723759	9.932	ppbv	100
48) Dibromochloromethane	10.46	129	1392747	11.184	ppbv	100
49) Bromoform	13.21	173	1251040	11.099	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1778884	9.628	ppbv	100
51) 2-Hexanone	10.27	43	1423259	9.671	ppbv #	100
52) Tetrachloroethene	11.38	164	708513	9.852	ppbv	100
53) Toluene	9.95	91	2033065	10.011	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1263525	10.638	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.28	131	981479	9.280	ppbv	100
57) Chlorobenzene	12.31	112	1664880	8.894	ppbv	100
58) Ethyl Benzene	12.87	91	3156238	9.465	ppbv	100
59) m/p-Xylene	13.13	91	5260500m	18.518	ppbv	
60) o-Xylene	13.86	91	2564716	9.218	ppbv	100
61) Styrene	13.69	104	1924195	9.901	ppbv	100
62) Isopropylbenzene	14.83	105	3599610	9.361	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1762437	8.377	ppbv	100
64) n-propylbenzene	15.73	120	917950	9.457	ppbv	100
65) tert-Butylbenzene	16.91	119	3229047	9.112	ppbv	100
66) Benzyl Chloride	17.16	91	1776490	12.287	ppbv	100
67) sec-Butylbenzene	17.47	105	4622545	9.128	ppbv	100
69) p-Isopropyltoluene	17.82	119	3837860	9.311	ppbv	100
70) n-Butylbenzene	18.72	91	4005884	9.099	ppbv	100
71) 2-Chlorotoluene	15.62	91	2799024	9.141	ppbv	100
72) 4-Ethyltoluene	16.01	105	3036283	9.563	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2903418	9.235	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	2977537	8.998	ppbv	100
75) 1,3-Dichlorobenzene	17.17	146	1723618	8.955	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1728953	9.122	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	1677051	9.004	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	917603	8.185	ppbv	100
79) Naphthalene	22.42	128	2929304	9.064	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1484934	9.530	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1458644	8.704	ppbv	100

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

