

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033176.D
 Acq On : 6 Feb 2019 6:59
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL020519

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:21:38 PM

Quant Time: Feb 20 06:22:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 06:22:05 2019
 QLast Update : Wed Feb 20 06:00:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1062983	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2588802	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2633151m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1991700	9.71	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	1751219	8.617	ppbv	99
3) Chlorodifluoromethane	3.01	51	1191409	9.308	ppbv	98
4) Chloromethane	3.17	50	641086	9.486	ppbv	99
5) Vinyl Chloride	3.29	62	623786	8.839	ppbv	99
6) Bromomethane	3.51	94	392353	10.116	ppbv	98
7) Chloroethane	3.60	64	234516	10.165	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1467075	9.230	ppbv	100
9) Propene	3.04	41	568473	9.194	ppbv	99
10) Heptane	8.25	43	1468025	7.848	ppbv	100
11) Trichlorofluoromethane	4.00	101	1573708	9.565	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1057429	9.273	ppbv	98
13) Ethanol	3.65	45	161530	7.687	ppbv	94
14) Bromoethene	3.79	108	490293	9.972	ppbv	99
15) Acetone	3.90	43	1065280	8.895	ppbv	100
16) 1,3-Butadiene	3.36	39	533281	9.381	ppbv	98
17) tert-Butyl alcohol	4.36	59	244525	10.629	ppbv	99
18) 1,1-Dichloroethene	4.35	96	499362	9.783	ppbv	96
19) Isopropyl Alcohol	4.02	45	787432	9.695	ppbv	99
20) Methylene Chloride	4.41	84	417548	8.765	ppbv	96
21) Allyl Chloride	4.48	41	793724	10.037	ppbv	100
22) trans-1,2-Dichloroethene	4.96	96	486434	9.813	ppbv	93
23) Vinyl Acetate	5.16	43	2058666	9.918	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1397346	9.518	ppbv	99
25) Ethyl Acetate	5.77	43	2382935	8.850	ppbv	100
26) Hexane	5.78	57	1086073	8.592	ppbv	100
27) Carbon Disulfide	4.62	76	1204996	10.406	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1663051	9.628	ppbv	100
29) Chloroform	5.85	83	1732326	8.943	ppbv	97
30) Cyclohexane	7.25	84	963758	8.217	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1144952	9.050	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1652597	7.748	ppbv	100
34) 2-Butanone	5.33	43	1670375	10.172	ppbv	100
35) Carbon Tetrachloride	7.14	117	1738635	8.794	ppbv	98
36) Benzene	7.01	78	2330658	8.883	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1327815	9.132	ppbv	99
38) Trichloroethene	7.97	130	850665	7.587	ppbv	95
39) 1,2-Dichloropropane	7.74	63	902778	8.713	ppbv	98
40) 1,4-Dioxane	7.96	88	322508	8.766	ppbv	91
41) Tetrahydrofuran	6.15	42	949223	9.351	ppbv	100
42) Bromodichloromethane	7.92	83	1905432	9.043	ppbv	99
43) Methyl Methacrylate	8.14	69	950040	9.019	ppbv	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3819316	8.590	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1238087	10.614	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1433707	9.619	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	938697	8.736	ppbv	96
48) Dibromochloromethane	10.46	129	1579632	9.331	ppbv	100
49) Bromoform	13.21	173	1386298	9.517	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2335297	8.869	ppbv	99
51) 2-Hexanone	10.27	43	1877621	9.044	ppbv #	99
52) Tetrachloroethene	11.38	164	817516	8.110	ppbv	97
53) Toluene	9.95	91	2727696	8.780	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1475593	8.751	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1102011	8.986	ppbv	97
57) Chlorobenzene	12.31	112	1962316	8.422	ppbv	98
58) Ethyl Benzene	12.87	91	3731065	8.632	ppbv	99
59) m/p-Xylene	13.13	91	6081428m	16.915	ppbv	
60) o-Xylene	13.86	91	2919298	8.327	ppbv	100
61) Styrene	13.69	104	2299736	8.689	ppbv	99
62) Isopropylbenzene	14.83	105	4191751	8.474	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2008510	7.339	ppbv	100
64) n-propylbenzene	15.73	120	1082077	8.605	ppbv	99
65) tert-Butylbenzene	16.92	119	3638152	8.447	ppbv	100
66) Benzyl Chloride	17.16	91	1863960	12.110	ppbv	100
67) sec-Butylbenzene	17.47	105	5238551	8.378	ppbv	99
69) p-Isopropyltoluene	17.82	119	4314074	8.285	ppbv	100
70) n-Butylbenzene	18.72	91	4643551	8.266	ppbv	100
71) 2-Chlorotoluene	15.62	91	3297432	8.485	ppbv	100
72) 4-Ethyltoluene	16.01	105	3522044	8.710	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3350886	8.665	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3324564	8.289	ppbv	95
75) 1,3-Dichlorobenzene	17.17	146	1956025	8.456	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1965826	8.577	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1914220	8.374	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1393655m	12.261	ppbv	
79) Naphthalene	22.42	128	3508886	8.141	ppbv	98
80) Naphthalene,2-methyl-	25.12	142	1620870	7.435	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	1730249	7.903	ppbv	99

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

