

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100719\
 Data File : VL034249.D
 Acq On : 8 Oct 2019 11:51
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:06:31 PM

Quant Time: Oct 09 05:12:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	931773	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1593040	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.15	117	1804136	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1474034	9.40	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.00%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.03	85	1815678	13.192	ppbv	99
3) Chlorodifluoromethane	2.97	51	1205092	11.030	ppbv	100
4) Chloromethane	3.12	50	724605	11.286	ppbv	97
5) Vinyl Chloride	3.24	62	655996	11.181	ppbv	98
6) Bromomethane	3.46	94	313909	11.467	ppbv	96
7) Chloroethane	3.55	64	235779	11.497	ppbv	100
8) Dichlorotetrafluoroethane	3.17	85	1379991	11.360	ppbv	100
9) Propene	2.99	41	591417	10.972	ppbv	99
10) Heptane	8.17	43	1548285	11.022	ppbv	99
11) Trichlorofluoromethane	3.95	101	1455228	11.616	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.49	101	965406	11.775	ppbv	100
13) Ethanol	3.59	45	114104	8.742	ppbv	98
14) Bromoethene	3.73	108	402632	12.011	ppbv	100
15) Acetone	3.84	43	1231360	9.860	ppbv	100
16) 1,3-Butadiene	3.31	39	638014	11.707	ppbv	98
17) tert-Butyl alcohol	4.29	59	842506	10.647	ppbv	100
18) 1,1-Dichloroethene	4.29	96	448636	12.546	ppbv	92
19) Isopropyl Alcohol	3.96	45	735751	9.581	ppbv #	98
20) Methylene Chloride	4.35	84	404530	11.235	ppbv	97
21) Allyl Chloride	4.41	41	855219	12.124	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	448370	12.532	ppbv	97
23) Vinyl Acetate	5.09	43	2045443	11.115	ppbv	99
24) 1,1-Dichloroethane	5.02	63	1383040	11.161	ppbv	99
25) Ethyl Acetate	5.70	43	2554565	10.817	ppbv	100
26) Hexane	5.71	57	1094523	11.142	ppbv	99
27) Carbon Disulfide	4.56	76	1135812	12.537	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1695384	11.620	ppbv	99
29) Chloroform	5.78	83	1604914	11.433	ppbv	100
30) Cyclohexane	7.17	84	794698	11.205	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1153408	11.518	ppbv	98
32) 1,1,1-Trichloroethane	6.55	97	1526860	11.278	ppbv	100
34) 2-Butanone	5.26	43	1742444	10.712	ppbv	99
35) Carbon Tetrachloride	7.06	117	1528201	11.547	ppbv	99
36) Benzene	6.93	78	1934899	10.997	ppbv	99
37) 1,2-Dichloroethane	6.34	62	1445515	11.551	ppbv	99
38) Trichloroethene	7.88	130	652718	10.383	ppbv	96
39) 1,2-Dichloropropane	7.66	63	858737	10.863	ppbv	97
40) 1,4-Dioxane	7.87	88	265691	10.386	ppbv #	92
41) Tetrahydrofuran	6.07	42	1025618	11.195	ppbv	99
42) Bromodichloromethane	7.84	83	1749405	11.648	ppbv	99
43) Methyl Methacrylate	8.06	69	856799	11.789	ppbv	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3618556	10.683	ppbv	100
45) t-1,3-Dichloropropene	9.34	75	1109343	12.909	ppbv	96
46) cis-1,3-Dichloropropene	8.76	75	1265130	12.238	ppbv	99
47) 1,1,2-Trichloroethane	9.54	97	788166	11.103	ppbv	97
48) Dibromochloromethane	10.37	129	1304441	11.594	ppbv	100
49) Bromoform	13.12	173	1080849	11.871	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	2568485	10.850	ppbv	99
51) 2-Hexanone	10.19	43	2163274	10.889	ppbv	99
52) Tetrachloroethene	11.29	164	596297	10.258	ppbv	97
53) Toluene	9.86	91	2143119	11.145	ppbv	98
54) 1,2-Dibromoethane	10.68	107	1169163	11.075	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.19	131	860310	10.693	ppbv	98
57) Chlorobenzene	12.21	112	1554261	9.895	ppbv #	95
58) Ethyl Benzene	12.78	91	2950761	10.136	ppbv	98
59) m/p-Xylene	13.06	91	4866710m	20.184	ppbv	
60) o-Xylene	13.77	91	2451472	10.168	ppbv	98
61) Styrene	13.60	104	1774467	10.275	ppbv	100
62) Isopropylbenzene	14.74	105	3122062	10.003	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.75	83	1762467	8.915	ppbv	100
64) n-propylbenzene	15.64	120	793849	10.054	ppbv	90
65) tert-Butylbenzene	16.82	119	2668606	9.786	ppbv	99
66) Benzyl Chloride	17.07	91	1220289	12.648	ppbv	99
67) sec-Butylbenzene	17.37	105	3850511	9.874	ppbv	99
69) p-Isopropyltoluene	17.73	119	3109463	9.847	ppbv	99
70) n-Butylbenzene	18.63	91	3580673	9.739	ppbv	98
71) 2-Chlorotoluene	15.53	91	2543269	9.973	ppbv	100
72) 4-Ethyltoluene	15.92	105	2748812	10.091	ppbv	99
73) 1,3,5-Trimethylbenzene	16.08	105	2637280	10.022	ppbv	96
74) 1,2,4-Trimethylbenzene	16.84	105	2673619	9.569	ppbv	93
75) 1,3-Dichlorobenzene	17.08	146	1420999	9.479	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	1457541	9.494	ppbv	99
77) 1,2-Dichlorobenzene	17.91	146	1393950	9.187	ppbv	98
78) Hexachloro-1,3-Butadiene	23.46	225	1082998	10.776	ppbv	98
79) Naphthalene	22.31	128	2321647	9.438	ppbv	98
80) Naphthalene,2-methyl-	25.04	142	939306	8.211	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1280184	9.395	ppbv	98

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

