

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101719\
 Data File : VL034340.D
 Acq On : 18 Oct 2019 12:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 2:56:35 PM

Quant Time: Oct 19 00:35:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 19 00:35:35 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	863628	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1814944	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	2086923m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1561611	8.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	88.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1295965	8.705	ppbv	100
3) Chlorodifluoromethane	2.97	51	1063233	10.504	ppbv	99
4) Chloromethane	3.12	50	660655	11.034	ppbv	95
5) Vinyl Chloride	3.24	62	603419	10.569	ppbv	96
6) Bromomethane	3.46	94	325173	11.631	ppbv	99
7) Chloroethane	3.55	64	221259	11.011	ppbv	98
8) Dichlorotetrafluoroethane	3.17	85	1381248	10.706	ppbv	97
9) Propene	2.99	41	522188	11.637	ppbv	99
10) Heptane	8.17	43	1355422	11.769	ppbv	99
11) Trichlorofluoromethane	3.94	101	1477172	10.450	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1013458	10.944	ppbv	98
13) Ethanol	3.59	45	110105	10.959	ppbv	99
14) Bromoethene	3.73	108	435323	11.939	ppbv	99
15) Acetone	3.84	43	1126833	9.122	ppbv	99
16) 1,3-Butadiene	3.31	39	573535	11.427	ppbv	99
17) tert-Butyl alcohol	4.29	59	1031809	13.087	ppbv	100
18) 1,1-Dichloroethene	4.29	96	465273	11.475	ppbv	93
19) Isopropyl Alcohol	3.96	45	864816	12.550	ppbv	100
20) Methylene Chloride	4.35	84	410934	9.202	ppbv	97
21) Allyl Chloride	4.41	41	791686	11.593	ppbv	100
22) trans-1,2-Dichloroethene	4.89	96	468665	11.588	ppbv	99
23) Vinyl Acetate	5.09	43	1853236	12.013	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1269111	11.085	ppbv	99
25) Ethyl Acetate	5.70	43	2322507	11.136	ppbv	99
26) Hexane	5.71	57	1011044	11.374	ppbv	97
27) Carbon Disulfide	4.55	76	1159602	12.566	ppbv	97
28) Methyl tert-Butyl Ether	5.04	73	1624883	12.078	ppbv	99
29) Chloroform	5.78	83	1548243	11.011	ppbv	99
30) Cyclohexane	7.17	84	806383	12.335	ppbv	96
31) cis-1,2-Dichloroethene	5.57	61	1062074	11.773	ppbv	98
32) 1,1,1-Trichloroethane	6.54	97	1506121	11.015	ppbv	99
34) 2-Butanone	5.26	43	1555986	10.489	ppbv	99
35) Carbon Tetrachloride	7.05	117	1544678	9.771	ppbv	99
36) Benzene	6.93	78	1950527	11.201	ppbv	97
37) 1,2-Dichloroethane	6.34	62	1277285	9.842	ppbv	98
38) Trichloroethene	7.88	130	732669	10.485	ppbv	96
39) 1,2-Dichloropropane	7.65	63	810500	10.809	ppbv	97
40) 1,4-Dioxane	7.87	88	296482	11.251	ppbv	94
41) Tetrahydrofuran	6.07	42	918965	11.162	ppbv	98
42) Bromodichloromethane	7.84	83	1701233	10.702	ppbv	99
43) Methyl Methacrylate	8.06	69	829991	11.524	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3398129	10.543	ppbv	98
45) t-1,3-Dichloropropene	9.33	75	1091055	12.434	ppbv	100
46) cis-1,3-Dichloropropene	8.75	75	1246506	12.365	ppbv	96
47) 1,1,2-Trichloroethane	9.53	97	808292	10.642	ppbv	94
48) Dibromochloromethane	10.37	129	1387149	11.134	ppbv	100
49) Bromoform	13.11	173	1256340	11.380	ppbv	100
50) 4-Methyl-2-Pentanone	8.79	43	2308502	10.870	ppbv	98
51) 2-Hexanone	10.19	43	1934730	11.113	ppbv #	98
52) Tetrachloroethene	11.29	164	729562	10.688	ppbv	96
53) Toluene	9.86	91	2264499	11.784	ppbv	100
54) 1,2-Dibromoethane	10.67	107	1217118	10.812	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	917055	9.535	ppbv	98
57) Chlorobenzene	12.21	112	1664782	9.562	ppbv	98
58) Ethyl Benzene	12.78	91	3060072	10.489	ppbv	99
59) m/p-Xylene	13.06	91	4967576m	19.653	ppbv	
60) o-Xylene	13.76	91	2474325	9.831	ppbv	99
61) Styrene	13.60	104	1903837	10.744	ppbv	98
62) Isopropylbenzene	14.74	105	3249047	9.779	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1712184	8.465	ppbv	100
64) n-propylbenzene	15.64	120	855483	10.033	ppbv	99
65) tert-Butylbenzene	16.82	119	2837029	9.634	ppbv	98
66) Benzyl Chloride	17.07	91	1318423	11.336	ppbv	99
67) sec-Butylbenzene	17.37	105	3922905	9.466	ppbv	99
69) p-Isopropyltoluene	17.73	119	3263740	9.660	ppbv	98
70) n-Butylbenzene	18.63	91	3466492	9.430	ppbv	99
71) 2-Chlorotoluene	15.53	91	2550437	9.900	ppbv	100
72) 4-Ethyltoluene	15.91	105	2855766	10.094	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	2717696	9.695	ppbv	97
74) 1,2,4-Trimethylbenzene	16.84	105	2756182	9.428	ppbv	97
75) 1,3-Dichlorobenzene	17.08	146	1588060	9.048	ppbv	98
76) 1,4-Dichlorobenzene	17.22	146	1593822	9.297	ppbv	99
77) 1,2-Dichlorobenzene	17.90	146	1546299m	8.986	ppbv	
78) Hexachloro-1,3-Butadiene	23.46	225	1363945	9.582	ppbv	100
79) Naphthalene	22.31	128	2753261	12.893	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	882788	14.301	ppbv	99
81) 1,2,4-Trichlorobenzene	22.04	180	724573	5.195	ppbv #	1

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

