

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034380.D
 Acq On : 19 Nov 2019 13:42
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:36 PM

Quant Time: Nov 19 14:15:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:12 2019
 QLast Update : Tue Nov 19 12:55:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1027820	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2126139	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	2214050	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.48	95	1869743	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	1798460	10.150	ppbv 98
3) Chlorodifluoromethane	2.96	51	1665237	13.823	ppbv 98
4) Chloromethane	3.11	50	1011843	14.199	ppbv 93
5) Vinyl Chloride	3.23	62	943414	13.884	ppbv 96
6) Bromomethane	3.46	94	502538	15.104	ppbv 99
7) Chloroethane	3.54	64	351162	14.684	ppbv 93
8) Dichlorotetrafluoroethane	3.16	85	2046386	13.328	ppbv 96
9) Propene	2.98	41	773695	14.488	ppbv 99
10) Heptane	8.16	43	2043075	14.906	ppbv 99
11) Trichlorofluoromethane	3.94	101	2346301	13.947	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.48	101	1615724	14.660	ppbv 99
13) Ethanol	3.59	45	166336	13.911	ppbv 97
14) Bromoethene	3.73	108	689340	15.886	ppbv 99
15) Acetone	3.84	43	1781184	12.116	ppbv 100
16) 1,3-Butadiene	3.30	39	888470	14.874	ppbv 97
17) tert-Butyl alcohol	4.29	59	1611892	17.179	ppbv 99
18) 1,1-Dichloroethene	4.28	96	721516	14.951	ppbv 94
19) Isopropyl Alcohol	3.96	45	1291085	15.743	ppbv 100
20) Methylene Chloride	4.34	84	653012	12.287	ppbv 97
21) Allyl Chloride	4.41	41	1267147	15.591	ppbv 99
22) trans-1,2-Dichloroethene	4.89	96	756578	15.718	ppbv 99
23) Vinyl Acetate	5.08	43	2737406	14.910	ppbv # 99
24) 1,1-Dichloroethane	5.02	63	1953773	14.339	ppbv 99
25) Ethyl Acetate	5.69	43	3421267	13.784	ppbv 99
26) Hexane	5.70	57	1483114	14.020	ppbv 98
27) Carbon Disulfide	4.55	76	1884126	17.155	ppbv 98
28) Methyl tert-Butyl Ether	5.03	73	2490813	15.557	ppbv 100
29) Chloroform	5.77	83	2402520	14.357	ppbv 96
30) Cyclohexane	7.16	84	1239707	15.934	ppbv 93
31) cis-1,2-Dichloroethene	5.56	61	1651924	15.386	ppbv 95
32) 1,1,1-Trichloroethane	6.54	97	2400175	14.749	ppbv 99
34) 2-Butanone	5.25	43	2341344	13.473	ppbv 98
35) Carbon Tetrachloride	7.05	117	2481446	13.399	ppbv 99
36) Benzene	6.92	78	2874539	14.091	ppbv 98
37) 1,2-Dichloroethane	6.33	62	2078809	13.673	ppbv 99
38) Trichloroethene	7.87	130	1135029	13.865	ppbv 94
39) 1,2-Dichloropropane	7.65	63	1215789	13.841	ppbv 98
40) 1,4-Dioxane	7.86	88	430214	13.937	ppbv 93
41) Tetrahydrofuran	6.07	42	1385379	14.364	ppbv 96
42) Bromodichloromethane	7.83	83	2682559	14.406	ppbv 98
43) Methyl Methacrylate	8.05	69	1271018	15.065	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	4933047	13.065	ppbv	99
45) t-1,3-Dichloropropene	9.33	75	1773223	17.250	ppbv	99
46) cis-1,3-Dichloropropene	8.75	75	1908884	16.164	ppbv	97
47) 1,1,2-Trichloroethane	9.53	97	1235782	13.889	ppbv	96
48) Dibromochloromethane	10.36	129	2239753	15.346	ppbv	99
49) Bromoform	13.11	173	2044283	15.807	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	3423409	13.760	ppbv	97
51) 2-Hexanone	10.18	43	3002348	14.721	ppbv	98
52) Tetrachloroethene	11.28	164	1105628	13.827	ppbv	95
53) Toluene	9.86	91	3342234	14.846	ppbv	99
54) 1,2-Dibromoethane	10.66	107	1894226	14.364	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.19	131	1467572	14.383	ppbv #	76
57) Chlorobenzene	12.21	112	2530205	13.698	ppbv	97
58) Ethyl Benzene	12.77	91	4538997	14.665	ppbv	96
59) m/p-Xylene	13.06	91	7376773m	27.509	ppbv	
60) o-Xylene	13.75	91	3741912	14.013	ppbv	100
61) Styrene	13.59	104	2883479	15.338	ppbv	99
62) Isopropylbenzene	14.73	105	4881728	13.849	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.74	83	2672996	12.457	ppbv	99
64) n-propylbenzene	15.63	120	1335352	14.761	ppbv	91
65) tert-Butylbenzene	16.82	119	4361626	13.961	ppbv	99
66) Benzyl Chloride	17.06	91	2297463	18.619	ppbv	99
67) sec-Butylbenzene	17.36	105	5904454	13.430	ppbv	99
69) p-Isopropyltoluene	17.72	119	4990776	13.924	ppbv	99
70) n-Butylbenzene	18.62	91	5313118	13.624	ppbv	99
71) 2-Chlorotoluene	15.52	91	3952159	14.460	ppbv	99
72) 4-Ethyltoluene	15.91	105	4364936	14.542	ppbv	99
73) 1,3,5-Trimethylbenzene	16.07	105	4200604	14.124	ppbv	96
74) 1,2,4-Trimethylbenzene	16.83	105	4247692	13.696	ppbv	94
75) 1,3-Dichlorobenzene	17.08	146	2509618	13.477	ppbv	99
76) 1,4-Dichlorobenzene	17.22	146	2532515	13.924	ppbv	100
77) 1,2-Dichlorobenzene	17.90	146	2443134m	13.382	ppbv	
78) Hexachloro-1,3-Butadiene	23.45	225	2178634	14.427	ppbv	99
79) Naphthalene	22.29	128	3970155	17.524	ppbv	98
80) Naphthalene, 2-methyl-	25.04	142	2392402	36.532	ppbv	94
81) 1,2,4-Trichlorobenzene	22.02	180	2397547	16.203	ppbv	99

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

