

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034304.D
 Acq On : 16 Oct 2019 16:48
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:13 PM

Quant Time: Oct 16 17:18:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Oct 16 16:52:05 2019
 QLast Update : Wed Oct 16 16:52:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1168216	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	2314424	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	2601648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	2126414	9.41	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	2862269	16.587	ppbv 91
3) Chlorodifluoromethane	2.97	51	1863105	13.602	ppbv 98
4) Chloromethane	3.12	50	1155656	14.357	ppbv 94
5) Vinyl Chloride	3.24	62	1065471	14.484	ppbv 97
6) Bromomethane	3.46	94	558154	16.263	ppbv 96
7) Chloroethane	3.55	64	395845	15.396	ppbv 100
8) Dichlorotetrafluoroethane	3.17	85	2266542	14.882	ppbv 96
9) Propene	2.99	41	876014	12.963	ppbv 96
10) Heptane	8.17	43	2375696	13.489	ppbv 98
11) Trichlorofluoromethane	3.95	101	2546866	16.215	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	1752671	17.050	ppbv 100
13) Ethanol	3.60	45	128950	7.880	ppbv 98
14) Bromoethene	3.73	108	726542	17.287	ppbv 97
15) Acetone	3.84	43	2007530	12.822	ppbv 100
16) 1,3-Butadiene	3.31	39	1014680	14.850	ppbv 100
17) tert-Butyl alcohol	4.30	59	1130384	11.394	ppbv 100
18) 1,1-Dichloroethene	4.29	96	799103	17.823	ppbv 93
19) Isopropyl Alcohol	3.97	45	960089	9.972	ppbv 99
20) Methylene Chloride	4.35	84	714039	15.817	ppbv 99
21) Allyl Chloride	4.42	41	1411265	15.958	ppbv 99
22) trans-1,2-Dichloroethene	4.90	96	815805	18.186	ppbv 98
23) Vinyl Acetate	5.09	43	3124965	13.544	ppbv 99
24) 1,1-Dichloroethane	5.03	63	2181543	14.042	ppbv 100
25) Ethyl Acetate	5.70	43	3859012	13.034	ppbv 99
26) Hexane	5.71	57	1701268	13.813	ppbv 97
27) Carbon Disulfide	4.56	76	2084287	18.349	ppbv 99
28) Methyl tert-Butyl Ether	5.05	73	2645604	14.463	ppbv 99
29) Chloroform	5.78	83	2638168	14.990	ppbv 94
30) Cyclohexane	7.18	84	1358457	15.277	ppbv 97
31) cis-1,2-Dichloroethene	5.57	61	1839422	14.651	ppbv 99
32) 1,1,1-Trichloroethane	6.55	97	2623751	15.458	ppbv 99
34) 2-Butanone	5.27	43	2680501	11.343	ppbv 100
35) Carbon Tetrachloride	7.06	117	2759622	14.352	ppbv 99
36) Benzene	6.93	78	3126870	12.233	ppbv 97
37) 1,2-Dichloroethane	6.34	62	2348621	12.918	ppbv 100
38) Trichloroethene	7.89	130	1232976	13.500	ppbv 95
39) 1,2-Dichloropropane	7.66	63	1387366	12.080	ppbv 98
40) 1,4-Dioxane	7.88	88	372245	10.016	ppbv # 1
41) Tetrahydrofuran	6.07	42	1579576	11.868	ppbv 99
42) Bromodichloromethane	7.84	83	2912846	13.350	ppbv 95
43) Methyl Methacrylate	8.07	69	1438744	13.625	ppbv 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.92	57	5477307	11.131	ppbv	97
45) t-1,3-Dichloropropene	9.34	75	1988069	15.923	ppbv	96
46) cis-1,3-Dichloropropene	8.76	75	2146234	14.291	ppbv	98
47) 1,1,2-Trichloroethane	9.54	97	1384241	13.422	ppbv	98
48) Dibromochloromethane	10.37	129	2482989	15.190	ppbv	99
49) Bromoform	13.12	173	2294501	17.346	ppbv	99
50) 4-Methyl-2-Pentanone	8.79	43	3946591	11.475	ppbv	97
51) 2-Hexanone	10.19	43	3430853	11.887	ppbv #	99
52) Tetrachloroethene	11.29	164	1219355	14.439	ppbv	98
53) Toluene	9.87	91	3651267	13.070	ppbv	98
54) 1,2-Dibromoethane	10.68	107	2092441	13.643	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.20	131	1633831	14.082	ppbv	97
57) Chlorobenzene	12.22	112	2801002	12.365	ppbv	98
58) Ethyl Benzene	12.78	91	4953587	11.800	ppbv	95
59) m/p-Xylene	13.07	91	8127918m	23.377	ppbv	
60) o-Xylene	13.77	91	4144129	11.920	ppbv	99
61) Styrene	13.60	104	3248062	13.043	ppbv	100
62) Isopropylbenzene	14.75	105	5358043	11.905	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.76	83	3019190	10.590	ppbv	99
64) n-propylbenzene	15.64	120	1490283	13.088	ppbv	87
65) tert-Butylbenzene	16.83	119	4809154m	12.229	ppbv	
66) Benzyl Chloride	17.08	91	2669890	19.190	ppbv	98
67) sec-Butylbenzene	17.38	105	6514306	11.584	ppbv	97
69) p-Isopropyltoluene	17.74	119	5508403	12.097	ppbv	98
70) n-Butylbenzene	18.64	91	5930909	11.186	ppbv	97
71) 2-Chlorotoluene	15.54	91	4403809	11.976	ppbv	98
72) 4-Ethyltoluene	15.92	105	4807406	12.239	ppbv	98
73) 1,3,5-Trimethylbenzene	16.08	105	4663034	12.288	ppbv	95
74) 1,2,4-Trimethylbenzene	16.85	105	4695861	11.654	ppbv	97
75) 1,3-Dichlorobenzene	17.09	146	2841041	13.142	ppbv	99
76) 1,4-Dichlorobenzene	17.23	146	2876515	12.993	ppbv	100
77) 1,2-Dichlorobenzene	17.91	146	2805776	12.823	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	2406923	16.608	ppbv	100
79) Naphthalene	22.31	128	4179080	11.781	ppbv	98
80) Naphthalene, 2-methyl-	25.05	142	2148932	13.027	ppbv	94
81) 1,2,4-Trichlorobenzene	22.04	180	2544260	12.948	ppbv	99

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

