

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034375.D
 Acq On : 19 Nov 2019 10:30
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:52:59 PM

Quant Time: Nov 19 11:29:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 1
 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	5.68	49	1097142	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.20	114	2227150	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.14	117	2298500	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1865794	9.58	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	330494	1.747	ppbv	98
3) Chlorodifluoromethane	2.96	51	295141	2.295	ppbv	97
4) Chloromethane	3.11	50	165803	2.180	ppbv	95
5) Vinyl Chloride	3.23	62	155976	2.150	ppbv	97
6) Bromomethane	3.45	94	78092	2.199	ppbv	98
7) Chloroethane	3.54	64	58670	2.298	ppbv	95
8) Dichlorotetrafluoroethane	3.16	85	385838	2.354	ppbv	100
9) Propene	2.98	41	125810	2.207	ppbv	96
10) Heptane	8.15	43	327262	2.237	ppbv	100
11) Trichlorofluoromethane	3.93	101	419676	2.337	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.48	101	272590	2.317	ppbv	100
13) Ethanol	3.58	45	39954	3.130	ppbv	90
14) Bromoethene	3.73	108	115879	2.502	ppbv	99
15) Acetone	3.84	43	338662	2.158	ppbv	100
16) 1,3-Butadiene	3.30	39	141593	2.221	ppbv	97
17) tert-Butyl alcohol	4.28	59	274052	2.736	ppbv	100
18) 1,1-Dichloroethene	4.28	96	122205	2.372	ppbv	89
19) Isopropyl Alcohol	3.95	45	229214	2.618	ppbv	100
20) Methylene Chloride	4.34	84	119088	2.099	ppbv	90
21) Allyl Chloride	4.40	41	198597	2.289	ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	120523	2.346	ppbv	99
23) Vinyl Acetate	5.08	43	440358	2.247	ppbv	97
24) 1,1-Dichloroethane	5.01	63	336062	2.311	ppbv	98
25) Ethyl Acetate	5.68	43	602216	2.273	ppbv	99
26) Hexane	5.70	57	265590	2.352	ppbv	97
27) Carbon Disulfide	4.55	76	281288	2.399	ppbv	100
28) Methyl tert-Butyl Ether	5.03	73	430459	2.519	ppbv	98
29) Chloroform	5.76	83	409192	2.291	ppbv	94
30) Cyclohexane	7.15	84	191954	2.311	ppbv	88
31) cis-1,2-Dichloroethene	5.56	61	262409	2.290	ppbv	97
32) 1,1,1-Trichloroethane	6.53	97	394421	2.271	ppbv	99
34) 2-Butanone	5.25	43	391416	2.150	ppbv	99
35) Carbon Tetrachloride	7.04	117	409077	2.109	ppbv	92
36) Benzene	6.91	78	487238	2.280	ppbv	94
37) 1,2-Dichloroethane	6.33	62	349637	2.195	ppbv	99
38) Trichloroethene	7.87	130	184219	2.148	ppbv #	91
39) 1,2-Dichloropropane	7.64	63	200141	2.175	ppbv	96
40) 1,4-Dioxane	7.87	88	78390m	2.424	ppbv	
41) Tetrahydrofuran	6.07	42	219205	2.170	ppbv	96
42) Bromodichloromethane	7.82	83	444631	2.279	ppbv #	98
43) Methyl Methacrylate	8.04	69	191664	2.169	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	889947	2.250	ppbv	97
45) t-1,3-Dichloropropene	9.32	75	251635	2.337	ppbv	92
46) cis-1,3-Dichloropropene	8.74	75	287724	2.326	ppbv	93
47) 1,1,2-Trichloroethane	9.52	97	205176	2.201	ppbv	95
48) Dibromochloromethane	10.35	129	354106	2.316	ppbv	99
49) Bromoform	13.10	173	319786	2.360	ppbv	99
50) 4-Methyl-2-Pentanone	8.78	43	568286	2.181	ppbv	99
51) 2-Hexanone	10.18	43	485134	2.271	ppbv #	100
52) Tetrachloroethene	11.27	164	182242	2.176	ppbv	99
53) Toluene	9.85	91	540229	2.291	ppbv	99
54) 1,2-Dibromoethane	10.66	107	307387	2.225	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.18	131	236173m	2.230	ppbv	
57) Chlorobenzene	12.20	112	434528	2.266	ppbv	98
58) Ethyl Benzene	12.76	91	779293	2.425	ppbv #	88
59) m/p-Xylene	13.05	91	1335679m	4.798	ppbv	
60) o-Xylene	13.75	91	652303	2.353	ppbv	99
61) Styrene	13.59	104	482497m	2.472	ppbv	
62) Isopropylbenzene	14.72	105	887106	2.424	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.73	83	473540m	2.126	ppbv	
64) n-propylbenzene	15.62	120	225204	2.398	ppbv	90
65) tert-Butylbenzene	16.81	119	814815	2.512	ppbv	98
66) Benzyl Chloride	17.05	91	292885	2.286	ppbv	100
67) sec-Butylbenzene	17.36	105	1135679	2.488	ppbv	96
69) p-Isopropyltoluene	17.72	119	951545	2.557	ppbv	96
70) n-Butylbenzene	18.62	91	1020057	2.520	ppbv	96
71) 2-Chlorotoluene	15.51	91	706616	2.490	ppbv	99
72) 4-Ethyltoluene	15.90	105	767776	2.464	ppbv	98
73) 1,3,5-Trimethylbenzene	16.06	105	747744	2.422	ppbv	98
74) 1,2,4-Trimethylbenzene	16.82	105	806910	2.506	ppbv	94
75) 1,3-Dichlorobenzene	17.06	146	451377	2.335	ppbv	100
76) 1,4-Dichlorobenzene	17.20	146	436822	2.313	ppbv	98
77) 1,2-Dichlorobenzene	17.89	146	451083	2.380	ppbv	98
78) Hexachloro-1,3-Butadiene	23.45	225	388220	2.476	ppbv	100
79) Naphthalene	22.30	128	731583m	3.111	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	344766	5.071	ppbv	94
81) 1,2,4-Trichlorobenzene	22.01	180	445402m	2.899	ppbv	

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

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