

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032660.D
 Acq On : 18 Oct 2018 22:09
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL101818

Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:55 PM

Quant Time: Oct 19 01:39:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Oct 19 01:39:50 2018
 QLast Update : Fri Oct 19 01:25:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1633843	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4180300	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	4222012m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.60	95	3103935	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	1936250	11.632	ppbv	100
3) Chlorodifluoromethane	3.02	51	1171972	9.172	ppbv	98
4) Chloromethane	3.18	50	691976	9.691	ppbv	100
5) Vinyl Chloride	3.30	62	696804	9.009	ppbv	99
6) Bromomethane	3.53	94	439649	9.117	ppbv	93
7) Chloroethane	3.61	64	270458	9.496	ppbv	94
8) Dichlorotetrafluoroethane	3.23	85	1582268	9.018	ppbv	91
9) Propene	3.05	41	563092	10.709	ppbv	99
10) Heptane	8.26	43	2126290	10.493	ppbv	98
11) Trichlorofluoromethane	4.02	101	1935165	8.900	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.57	101	1427391	7.894	ppbv	91
13) Ethanol	3.66	45	135283	9.002	ppbv	97
14) Bromoethene	3.80	108	566225	9.266	ppbv	99
15) Acetone	3.91	43	1169955	7.755	ppbv	100
16) 1,3-Butadiene	3.37	39	581694	10.481	ppbv	81
17) tert-Butyl alcohol	4.37	59	477088	10.752	ppbv #	100
18) 1,1-Dichloroethene	4.36	96	773548	9.738	ppbv	94
19) Isopropyl Alcohol	4.04	45	956861	8.906	ppbv #	96
20) Methylene Chloride	4.42	84	657014	8.579	ppbv	98
21) Allyl Chloride	4.49	41	1271107	10.261	ppbv	99
22) trans-1,2-Dichloroethene	4.98	96	775675	9.520	ppbv	87
23) Vinyl Acetate	5.17	43	2803430	10.486	ppbv	99
24) 1,1-Dichloroethane	5.11	63	2006088	9.559	ppbv	99
25) Ethyl Acetate	5.79	43	3334627	9.602	ppbv	99
26) Hexane	5.80	57	1558840	9.487	ppbv	100
27) Carbon Disulfide	4.63	76	1771660	8.888	ppbv	100
28) Methyl tert-Butyl Ether	5.13	73	2551295	10.804	ppbv	100
29) Chloroform	5.87	83	2397561	9.135	ppbv	100
30) Cyclohexane	7.26	84	1433855	11.024	ppbv	97
31) cis-1,2-Dichloroethene	5.66	61	1518619	9.968	ppbv	99
32) 1,1,1-Trichloroethane	6.64	97	2464489	9.240	ppbv	98
34) 2-Butanone	5.35	43	2317468	10.342	ppbv	100
35) Carbon Tetrachloride	7.16	117	2640116	8.899	ppbv	100
36) Benzene	7.02	78	3406770	10.036	ppbv	99
37) 1,2-Dichloroethane	6.43	62	1888594	9.071	ppbv	97
38) Trichloroethene	7.98	130	1283003	10.210	ppbv	98
39) 1,2-Dichloropropane	7.76	63	1303102	9.941	ppbv	98
40) 1,4-Dioxane	7.98	88	418195	9.341	ppbv #	92
41) Tetrahydrofuran	6.17	42	1380510	11.055	ppbv	99
42) Bromodichloromethane	7.94	83	2742427	9.401	ppbv	99
43) Methyl Methacrylate	8.16	69	1383625	11.121	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	5635880	9.726	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1983019	11.908	ppbv	99
46) cis-1,3-Dichloropropene	8.86	75	2104579	11.061	ppbv	99
47) 1,1,2-Trichloroethane	9.63	97	1489396	9.616	ppbv	98
48) Dibromochloromethane	10.47	129	2317001	8.974	ppbv	99
49) Bromoform	13.22	173	1936524	9.545	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	3470701	10.454	ppbv	100
51) 2-Hexanone	10.29	43	2701190	10.945	ppbv #	99
52) Tetrachloroethene	11.40	164	1248688	10.551	ppbv	95
53) Toluene	9.97	91	4268123	10.969	ppbv	99
54) 1,2-Dibromoethane	10.78	107	2112750	10.036	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.30	131	1663783	9.012	ppbv #	58
57) Chlorobenzene	12.32	112	2925065	9.420	ppbv	96
58) Ethyl Benzene	12.88	91	5210043	10.622	ppbv	99
59) m/p-Xylene	13.15	91	8547516m	19.570	ppbv	
60) o-Xylene	13.87	91	4048403	9.609	ppbv	99
61) Styrene	13.70	104	3196786	11.316	ppbv	97
62) Isopropylbenzene	14.85	105	5724510	9.600	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	2767651	8.384	ppbv	99
64) n-propylbenzene	15.74	120	1466168m	9.894	ppbv	
65) tert-Butylbenzene	16.93	119	4785079	9.422	ppbv	95
66) Benzyl Chloride	17.18	91	2757758	10.518	ppbv	98
67) sec-Butylbenzene	17.48	105	6784544	9.393	ppbv	99
69) p-Isopropyltoluene	17.84	119	5496947	9.604	ppbv	98
70) n-Butylbenzene	18.73	91	5529533	9.384	ppbv	99
71) 2-Chlorotoluene	15.64	91	4233879	9.991	ppbv	97
72) 4-Ethyltoluene	16.02	105	4630855	10.320	ppbv	99
73) 1,3,5-Trimethylbenzene	16.18	105	4298163	9.834	ppbv	99
74) 1,2,4-Trimethylbenzene	16.95	105	4294790	9.201	ppbv	93
75) 1,3-Dichlorobenzene	17.19	146	2398352	8.936	ppbv	98
76) 1,4-Dichlorobenzene	17.33	146	2374374	9.586	ppbv	98
77) 1,2-Dichlorobenzene	18.01	146	2278291	8.960	ppbv	98
78) Hexachloro-1,3-Butadiene	23.56	225	1441228	11.995	ppbv	100
79) Naphthalene	22.43	128	3633686	12.525	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	1400019	19.845	ppbv	99
81) 1,2,4-Trichlorobenzene	22.16	180	1703584m	11.338	ppbv	

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