

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033259.D
 Acq On : 8 Mar 2019 14:41
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:14 AM

Quant Time: Mar 08 17:41:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 17:41:48 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	948418	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2160536	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2180802	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1899831	11.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	114.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	100138	0.747	ppbv	95
3) Chlorodifluoromethane	3.02	51	59606	0.549	ppbv	100
4) Chloromethane	3.18	50	29127	0.521	ppbv	92
5) Vinyl Chloride	3.29	62	29266	0.467	ppbv	97
6) Bromomethane	3.51	94	19163m	0.535	ppbv	
7) Chloroethane	3.61	64	10282	0.491	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	78344	0.592	ppbv	98
9) Propene	3.04	41	25733	0.532	ppbv	99
10) Heptane	8.24	43	63831	0.485	ppbv	97
11) Trichlorofluoromethane	4.01	101	84162	0.535	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.56	101	55231m	0.542	ppbv	
13) Ethanol	3.66	45	9373m	0.648	ppbv	
14) Bromoethene	3.79	108	21563	0.502	ppbv	98
15) Acetone	3.92	43	63587	0.521	ppbv	96
16) 1,3-Butadiene	3.36	39	24277	0.498	ppbv	94
17) tert-Butyl alcohol	4.39	59	10657m	0.536	ppbv	
18) 1,1-Dichloroethene	4.35	96	23035m	0.507	ppbv	
19) Isopropyl Alcohol	4.04	45	41741m	0.575	ppbv	
20) Methylene Chloride	4.41	84	27414	0.593	ppbv	95
21) Allyl Chloride	4.48	41	32985	0.484	ppbv	93
22) trans-1,2-Dichloroethene	4.96	96	25141m	0.542	ppbv	
23) Vinyl Acetate	5.16	43	80458	0.447	ppbv #	95
24) 1,1-Dichloroethane	5.09	63	65771	0.512	ppbv	98
25) Ethyl Acetate	5.78	43	112368	0.502	ppbv	99
26) Hexane	5.78	57	54789	0.524	ppbv	93
27) Carbon Disulfide	4.62	76	47133	0.467	ppbv #	87
28) Methyl tert-Butyl Ether	5.13	73	66141	0.458	ppbv	100
29) Chloroform	5.85	83	80901	0.497	ppbv	95
30) Cyclohexane	7.25	84	38146m	0.487	ppbv	
31) cis-1,2-Dichloroethene	5.64	61	46409	0.459	ppbv #	84
32) 1,1,1-Trichloroethane	6.62	97	74893	0.475	ppbv	96
34) 2-Butanone	5.34	43	70234	0.469	ppbv	98
35) Carbon Tetrachloride	7.13	117	73873m	0.452	ppbv	
36) Benzene	7.00	78	96611	0.476	ppbv	97
37) 1,2-Dichloroethane	6.41	62	66741m	0.529	ppbv	
38) Trichloroethene	7.96	130	38354m	0.501	ppbv	
39) 1,2-Dichloropropane	7.74	63	36347	0.459	ppbv	90
40) 1,4-Dioxane	7.99	88	14541m	0.495	ppbv	
41) Tetrahydrofuran	6.18	42	36908m	0.449	ppbv	
42) Bromodichloromethane	7.91	83	79995	0.448	ppbv	98
43) Methyl Methacrylate	8.14	69	34407	0.419	ppbv	97

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44) 2,2,4-Trimethylpentane	7.99	57	166440	0.464	ppbv	98
45) t-1,3-Dichloropropene	9.41	75	37541	0.378	ppbv	91
46) cis-1,3-Dichloropropene	8.83	75	46342	0.391	ppbv #	91
47) 1,1,2-Trichloroethane	9.61	97	40226	0.472	ppbv	99
48) Dibromochloromethane	10.45	129	59976m	0.435	ppbv	
49) Bromoform	13.20	173	59078	0.536	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	94170	0.425	ppbv	100
51) 2-Hexanone	10.30	43	65646	0.396	ppbv #	99
52) Tetrachloroethene	11.37	164	35265	0.467	ppbv	96
53) Toluene	9.95	91	98355	0.420	ppbv	98
54) 1,2-Dibromoethane	10.76	107	58284	0.450	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	48048m	0.508	ppbv	
57) Chlorobenzene	12.30	112	85542m	0.504	ppbv	
58) Ethyl Benzene	12.86	91	138026m	0.458	ppbv	
59) m/p-Xylene	13.14	91	320823m	1.248	ppbv	
60) o-Xylene	13.85	91	155014m	0.632	ppbv	
61) Styrene	13.68	104	94529	0.548	ppbv	96
62) Isopropylbenzene	14.82	105	187539m	0.549	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	113685	0.652	ppbv	99
64) n-propylbenzene	15.72	120	42770	0.505	ppbv	88
65) tert-Butylbenzene	16.90	119	153338	0.526	ppbv	96
66) Benzyl Chloride	17.15	91	36090	0.320	ppbv	97
67) sec-Butylbenzene	17.46	105	216440m	0.520	ppbv	
69) p-Isopropyltoluene	17.81	119	164972	0.491	ppbv	97
70) n-Butylbenzene	18.71	91	186034	0.505	ppbv	97
71) 2-Chlorotoluene	15.61	91	132644	0.508	ppbv	100
72) 4-Ethyltoluene	16.00	105	134011	0.500	ppbv	97
73) 1,3,5-Trimethylbenzene	16.15	105	131317	0.511	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	140934	0.522	ppbv	93
75) 1,3-Dichlorobenzene	17.16	146	85583	0.541	ppbv	95
76) 1,4-Dichlorobenzene	17.30	146	82357m	0.526	ppbv	
77) 1,2-Dichlorobenzene	17.99	146	78976	0.515	ppbv	95
78) Hexachloro-1,3-Butadiene	23.54	225	64276	0.592	ppbv	99
79) Naphthalene	22.41	128	107080	0.324	ppbv	97
80) Naphthalene, 2-methyl-	25.12	142	9454	0.096	ppbv	95
81) 1,2,4-Trichlorobenzene	22.14	180	67623m	0.407	ppbv	

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

