

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073019\
 Data File : VL034051.D
 Acq On : 30 Jul 2019 4:03
 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
 8/2/2019 9:37:37 AM

Quant Time: Jul 30 05:28:42 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1135059	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4169162	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3066102	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2459557	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	148846	0.624	ppbv	88
3) Chlorodifluoromethane	2.99	51	71538	0.502	ppbv	98
4) Chloromethane	3.14	50	41478m	0.495	ppbv	
5) Vinyl Chloride	3.27	62	43118m	0.463	ppbv	
6) Bromomethane	3.49	94	26067	0.462	ppbv	95
7) Chloroethane	3.57	64	18725m	0.544	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	117073	0.494	ppbv	96
9) Propene	3.01	41	25826	0.493	ppbv	99
10) Heptane	8.20	43	61024m	0.483	ppbv	
11) Trichlorofluoromethane	3.97	101	128782	0.468	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.52	101	93000	0.508	ppbv	95
13) Ethanol	3.64	45	13128m	0.798	ppbv	
14) Bromoethene	3.75	108	35717	0.500	ppbv	93
15) Acetone	3.88	43	91229	0.459	ppbv	100
16) 1,3-Butadiene	3.33	39	31197	0.434	ppbv	100
17) tert-Butyl alcohol	4.34	59	78492m	0.519	ppbv	
18) 1,1-Dichloroethene	4.32	96	37989	0.463	ppbv	82
19) Isopropyl Alcohol	4.00	45	63896	0.479	ppbv #	94
20) Methylene Chloride	4.37	84	37584	0.459	ppbv #	85
21) Allyl Chloride	4.44	41	56320	0.480	ppbv	96
22) trans-1,2-Dichloroethene	4.92	96	42041	0.538	ppbv	87
23) Vinyl Acetate	5.12	43	84087m	0.450	ppbv	
24) 1,1-Dichloroethane	5.05	63	87438	0.523	ppbv	98
25) Ethyl Acetate	5.73	43	129217	0.501	ppbv #	97
26) Hexane	5.73	57	59663m	0.505	ppbv	
27) Carbon Disulfide	4.59	76	91948	0.462	ppbv #	91
28) Methyl tert-Butyl Ether	5.09	73	100001	0.502	ppbv	98
29) Chloroform	5.80	83	110063	0.497	ppbv	87
30) Cyclohexane	7.20	84	57429m	0.594	ppbv	
31) cis-1,2-Dichloroethene	5.59	61	51266m	0.451	ppbv	
32) 1,1,1-Trichloroethane	6.58	97	118768m	0.529	ppbv	
34) 2-Butanone	5.30	43	75717	0.366	ppbv	93
35) Carbon Tetrachloride	7.09	117	149711	0.475	ppbv	95
36) Benzene	6.96	78	110826m	0.366	ppbv	
37) 1,2-Dichloroethane	6.36	62	99387	0.441	ppbv #	96
38) Trichloroethene	7.91	130	47835m	0.347	ppbv	
39) 1,2-Dichloropropane	7.68	63	46245m	0.404	ppbv	
40) 1,4-Dioxane	7.94	88	21486m	0.412	ppbv	
41) Tetrahydrofuran	6.13	42	35374m	0.353	ppbv	
42) Bromodichloromethane	7.87	83	113950	0.378	ppbv	99
43) Methyl Methacrylate	8.10	69	39684m	0.347	ppbv	

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 QLast Update : Tue Jul 30 05:02:48 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.94	57	188352	0.359	ppbv	95
45) t-1,3-Dichloropropene	9.36	75	45284m	0.306	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	51210	0.297	ppbv	97
47) 1,1,2-Trichloroethane	9.56	97	54338m	0.382	ppbv	
48) Dibromochloromethane	10.40	129	95041	0.332	ppbv	97
49) Bromoform	13.14	173	86616m	0.373	ppbv	
50) 4-Methyl-2-Pentanone	8.83	43	109814m	0.361	ppbv	
51) 2-Hexanone	10.24	43	71394m	0.275	ppbv	
52) Tetrachloroethene	11.32	164	47214m	0.355	ppbv	
53) Toluene	9.90	91	103852m	0.302	ppbv	
54) 1,2-Dibromoethane	10.71	107	79273m	0.380	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.22	131	73351m	0.544	ppbv	
57) Chlorobenzene	12.25	112	126779m	0.528	ppbv	
58) Ethyl Benzene	12.81	91	150764	0.415	ppbv	94
59) m/p-Xylene	13.09	91	300910m	0.915	ppbv	
60) o-Xylene	13.79	91	149651	0.454	ppbv	96
61) Styrene	13.63	104	77698	0.358	ppbv	97
62) Isopropylbenzene	14.77	105	207262	0.435	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.78	83	132553	0.518	ppbv	96
64) n-propylbenzene	15.67	120	52884m	0.429	ppbv	
65) tert-Butylbenzene	16.85	119	190638	0.475	ppbv	96
66) Benzyl Chloride	17.09	91	88629m	0.436	ppbv	
67) sec-Butylbenzene	17.41	105	273921	0.483	ppbv	100
69) p-Isopropyltoluene	17.76	119	219805	0.471	ppbv	96
70) n-Butylbenzene	18.66	91	230651	0.470	ppbv	97
71) 2-Chlorotoluene	15.56	91	132871	0.383	ppbv	100
72) 4-Ethyltoluene	15.95	105	156397	0.391	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.10	105	179042m	0.486	ppbv	
74) 1,2,4-Trimethylbenzene	16.87	105	209655	0.514	ppbv #	92
75) 1,3-Dichlorobenzene	17.11	146	143409	0.551	ppbv	96
76) 1,4-Dichlorobenzene	17.25	146	128626m	0.525	ppbv	
77) 1,2-Dichlorobenzene	17.93	146	124184m	0.516	ppbv	
78) Hexachloro-1,3-Butadiene	23.49	225	125393	0.597	ppbv	96
79) Naphthalene	22.35	128	156558	0.456	ppbv #	90
80) Naphthalene, 2-methyl-	25.07	142	66425	0.534	ppbv	98
81) 1,2,4-Trichlorobenzene	22.07	180	113367m	0.510	ppbv	

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

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