

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092018\
 Data File : VL032507.D
 Acq On : 20 Sep 2018 13:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 9/24/2018 11:19:54 AM

Quant Time: Sep 21 02:27:33 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1536436	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3583045	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.28	117	3788181m	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.61	95	2781272	9.89	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1233609	6.277	ppbv	99
3) Chlorodifluoromethane	3.03	51	1163539	8.366	ppbv	100
4) Chloromethane	3.19	50	690912	8.204	ppbv	100
5) Vinyl Chloride	3.31	62	656489	7.898	ppbv	97
6) Bromomethane	3.54	94	405548	9.295	ppbv	98
7) Chloroethane	3.62	64	261640	9.094	ppbv	100
8) Dichlorotetrafluoroethane	3.24	85	1410569	8.087	ppbv	98
9) Propene	3.06	41	561545	10.009	ppbv	99
10) Heptane	8.28	43	2167899	10.771	ppbv	99
11) Trichlorofluoromethane	4.03	101	1500259	8.466	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.58	101	1258611	10.481	ppbv	99
13) Ethanol	3.68	45	144686	8.273	ppbv	99
14) Bromoethene	3.81	108	490427	9.639	ppbv	99
15) Acetone	3.93	43	1213309	8.769	ppbv	99
16) 1,3-Butadiene	3.39	39	524437	8.055	ppbv	99
17) tert-Butyl alcohol	4.38	59	228561	10.735	ppbv #	100
18) 1,1-Dichloroethene	4.38	96	614182	11.191	ppbv	99
19) Isopropyl Alcohol	4.05	45	925463	10.196	ppbv #	97
20) Methylene Chloride	4.44	84	541222	10.259	ppbv	99
21) Allyl Chloride	4.51	41	1089772	11.859	ppbv	99
22) trans-1,2-Dichloroethene	4.99	96	598355	10.048	ppbv	98
23) Vinyl Acetate	5.18	43	2681538	11.692	ppbv	99
24) 1,1-Dichloroethane	5.12	63	1872262	9.908	ppbv	99
25) Ethyl Acetate	5.80	43	3245231	9.932	ppbv	100
26) Hexane	5.81	57	1481661	10.127	ppbv	98
27) Carbon Disulfide	4.65	76	1608095	11.907	ppbv	99
28) Methyl tert-Butyl Ether	5.14	73	2095331	11.665	ppbv	99
29) Chloroform	5.88	83	2151729	9.646	ppbv	100
30) Cyclohexane	7.28	84	1310773	12.236	ppbv	100
31) cis-1,2-Dichloroethene	5.67	61	1437780	10.853	ppbv	99
32) 1,1,1-Trichloroethane	6.65	97	2268550	10.910	ppbv	98
34) 2-Butanone	5.36	43	2147734	9.024	ppbv	99
35) Carbon Tetrachloride	7.17	117	2211041	9.181	ppbv	99
36) Benzene	7.04	78	3181171	10.433	ppbv	98
37) 1,2-Dichloroethane	6.45	62	1672610	8.951	ppbv	99
38) Trichloroethene	8.00	130	1108259	9.568	ppbv	99
39) 1,2-Dichloropropane	7.78	63	1316838	10.094	ppbv	99
40) 1,4-Dioxane	7.99	88	447141	11.424	ppbv	72
41) Tetrahydrofuran	6.18	42	1360948	10.504	ppbv	99
42) Bromodichloromethane	7.95	83	2520405	9.779	ppbv	100
43) Methyl Methacrylate	8.17	69	1347153	10.414	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.03	57	5632217	9.554	ppbv	99
45) t-1,3-Dichloropropene	9.45	75	1886467	13.628	ppbv	96
46) cis-1,3-Dichloropropene	8.88	75	2040377	11.535	ppbv	99
47) 1,1,2-Trichloroethane	9.65	97	1400522	10.097	ppbv	98
48) Dibromochloromethane	10.49	129	2311675	12.034	ppbv	100
49) Bromoform	13.24	173	1774927	10.630	ppbv	99
50) 4-Methyl-2-Pentanone	8.90	43	3510673	9.792	ppbv	99
51) 2-Hexanone	10.31	43	3107418	13.456	ppbv #	99
52) Tetrachloroethene	11.41	164	1003041	10.609	ppbv	98
53) Toluene	9.98	91	3983796	12.499	ppbv	100
54) 1,2-Dibromoethane	10.80	107	2120678	11.387	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.32	131	1523517	8.921	ppbv #	61
57) Chlorobenzene	12.34	112	2726081	9.004	ppbv	99
58) Ethyl Benzene	12.90	91	4935822	10.888	ppbv	99
59) m/p-Xylene	13.19	91	7977255m	19.738	ppbv	
60) o-Xylene	13.89	91	3904409	9.835	ppbv	100
61) Styrene	13.72	104	2993590	11.648	ppbv	99
62) Isopropylbenzene	14.87	105	5571607	9.983	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	2937075	8.274	ppbv	100
64) n-propylbenzene	15.76	120	1454485	9.969	ppbv	99
65) tert-Butylbenzene	16.95	119	4612733	9.592	ppbv	99
66) Benzyl Chloride	17.20	91	3003454	11.211	ppbv	100
67) sec-Butylbenzene	17.50	105	6832306	9.447	ppbv	100
69) p-Isopropyltoluene	17.86	119	5484782	9.785	ppbv	100
70) n-Butylbenzene	18.76	91	6026398	9.485	ppbv	99
71) 2-Chlorotoluene	15.66	91	4386201	10.287	ppbv	100
72) 4-Ethyltoluene	16.04	105	4586621	10.582	ppbv	99
73) 1,3,5-Trimethylbenzene	16.20	105	4348130	10.013	ppbv	97
74) 1,2,4-Trimethylbenzene	16.97	105	4347381	9.157	ppbv	93
75) 1,3-Dichlorobenzene	17.21	146	2429194	8.624	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2443610	9.349	ppbv	100
77) 1,2-Dichlorobenzene	18.03	146	2406961	8.856	ppbv	100
78) Hexachloro-1,3-Butadiene	23.58	225	1477206	14.547	ppbv	100
79) Naphthalene	22.46	128	4158570	10.772	ppbv	99
80) Naphthalene, 2-methyl-	25.14	142	1629645	15.865	ppbv	100
81) 1,2,4-Trichlorobenzene	22.18	180	1985719	10.213	ppbv	99

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

