

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032376.D
 Acq On : 16 Aug 2018 8:36
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:07:00 PM

Quant Time: Aug 16 09:07:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 16 09:07:20 2018
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	1484631	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3348575	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.31	117	3216973m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.65	95	2517023	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	1432735	12.11	ppbv	99
3) Chlorodifluoromethane	3.05	51	1289353	9.37	ppbv	98
4) Chloromethane	3.21	50	761702	9.31	ppbv	94
5) Vinyl Chloride	3.33	62	739996	9.48	ppbv	99
6) Bromomethane	3.55	94	407294	9.74	ppbv	98
7) Chloroethane	3.64	64	261205	9.55	ppbv	99
8) Dichlorotetrafluoroethane	3.26	85	1583465	9.44	ppbv	99
9) Propene	3.07	41	617729	10.50	ppbv	99
10) Heptane	8.31	43	2107281	11.89	ppbv	100
11) Trichlorofluoromethane	4.05	101	1638022	9.86	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.60	101	1076078	9.62	ppbv	98
13) Ethanol	3.69	45	165075	10.92	ppbv	100
14) Bromoethene	3.83	108	490189	10.14	ppbv	99
15) Acetone	3.95	43	1236441	8.77	ppbv	97
16) 1,3-Butadiene	3.40	39	636668	10.93	ppbv	84
17) tert-Butyl alcohol	4.41	59	271655	11.48	ppbv	98
18) 1,1-Dichloroethene	4.40	96	529362	10.16	ppbv	99
19) Isopropyl Alcohol	4.07	45	1041800	10.97	ppbv #	99
20) Methylene Chloride	4.46	84	457409	8.59	ppbv	98
21) Allyl Chloride	4.52	41	956706	10.75	ppbv	97
22) trans-1,2-Dichloroethene	5.02	96	527064	10.03	ppbv	99
23) Vinyl Acetate	5.21	43	2360402	9.69	ppbv	99
24) 1,1-Dichloroethane	5.14	63	1592641	9.06	ppbv	99
25) Ethyl Acetate	5.82	43	3015552	9.98	ppbv	100
26) Hexane	5.84	57	1321196	9.80	ppbv	96
27) Carbon Disulfide	4.67	76	1383401	11.00	ppbv	98
28) Methyl tert-Butyl Ether	5.17	73	1944542	10.87	ppbv	99
29) Chloroform	5.91	83	1955132	9.90	ppbv	98
30) Cyclohexane	7.31	84	1100697	10.72	ppbv	97
31) cis-1,2-Dichloroethene	5.70	61	1503424	11.40	ppbv	96
32) 1,1,1-Trichloroethane	6.68	97	2095436	10.90	ppbv	98
34) 2-Butanone	5.38	43	2192150	9.62	ppbv	99
35) Carbon Tetrachloride	7.20	117	1921767	9.73	ppbv	99
36) Benzene	7.07	78	2771869	9.76	ppbv	99
37) 1,2-Dichloroethane	6.47	62	1670549	9.70	ppbv	99
38) Trichloroethene	8.03	130	955886	9.60	ppbv	98
39) 1,2-Dichloropropane	7.80	63	1141547	9.63	ppbv	98
40) 1,4-Dioxane	8.02	88	393571	10.93	ppbv	97
41) Tetrahydrofuran	6.21	42	1298743	10.62	ppbv	100
42) Bromodichloromethane	7.98	83	2253650	9.99	ppbv	99
43) Methyl Methacrylate	8.20	69	1206152	10.66	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	4905354	9.58	ppbv	99
45) t-1,3-Dichloropropene	9.48	75	1709500	11.95	ppbv	98
46) cis-1,3-Dichloropropene	8.90	75	1936290	11.28	ppbv	97
47) 1,1,2-Trichloroethane	9.68	97	1238157	9.49	ppbv	97
48) Dibromochloromethane	10.52	129	1851586	10.61	ppbv	100
49) Bromoform	13.27	173	1459868	10.07	ppbv	100
50) 4-Methyl-2-Pentanone	8.94	43	3123360	9.49	ppbv	100
51) 2-Hexanone	10.34	43	2500780	10.82	ppbv #	99
52) Tetrachloroethene	11.44	164	871160	10.40	ppbv	98
53) Toluene	10.01	91	3296442	10.59	ppbv	99
54) 1,2-Dibromoethane	10.83	107	1719472	10.26	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.35	131	1270934	9.55	ppbv	100
57) Chlorobenzene	12.37	112	2301630	9.50	ppbv	98
58) Ethyl Benzene	12.93	91	4347568	11.23	ppbv	99
59) m/p-Xylene	13.22	91	7288442m	22.17	ppbv	
60) o-Xylene	13.92	91	3364039	10.41	ppbv	99
61) Styrene	13.76	104	2648180	11.73	ppbv	100
62) Isopropylbenzene	14.90	105	4852490	10.55	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	2427709	8.93	ppbv	100
64) n-propylbenzene	15.79	120	1253248	10.53	ppbv	96
65) tert-Butylbenzene	16.98	119	4000007	10.18	ppbv	100
66) Benzyl Chloride	17.23	91	2730527	11.74	ppbv	99
67) sec-Butylbenzene	17.53	105	6084091	10.41	ppbv	99
69) p-Isopropyltoluene	17.88	119	4847121	10.84	ppbv	99
70) n-Butylbenzene	18.78	91	5362587	10.94	ppbv	99
71) 2-Chlorotoluene	15.69	91	3872635	10.88	ppbv	99
72) 4-Ethyltoluene	16.07	105	4076342	11.31	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	3846339	11.09	ppbv	99
74) 1,2,4-Trimethylbenzene	17.00	105	3802246	10.31	ppbv	97
75) 1,3-Dichlorobenzene	17.23	146	2089688	9.43	ppbv	99
76) 1,4-Dichlorobenzene	17.38	146	2128298	10.14	ppbv	100
77) 1,2-Dichlorobenzene	18.06	146	2111841	9.97	ppbv	100
78) Hexachloro-1,3-Butadiene	23.60	225	788808	11.09	ppbv	100
79) Naphthalene	22.49	128	3743182	10.82	ppbv	99
80) Naphthalene, 2-methyl-	25.17	142	1637469	22.25	ppbv	99
81) 1,2,4-Trichlorobenzene	22.21	180	1744124	12.23	ppbv	100

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

