

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034276.D
 Acq On : 9 Oct 2019 13:02
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:08:52 PM

Quant Time: Oct 10 02:32:53 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18

QLast Update : Wed Sep 18 12:53:31 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	955545	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.22	114	1830757	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.15	117	1957619	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1583985m	9.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	1503705	10.654	ppbv	100
3) Chlorodifluoromethane	2.97	51	1043001	9.309	ppbv	98
4) Chloromethane	3.12	50	603565	9.167	ppbv	100
5) Vinyl Chloride	3.24	62	551787	9.171	ppbv	99
6) Bromomethane	3.46	94	296949	10.578	ppbv	94
7) Chloroethane	3.55	64	199450	9.484	ppbv	95
8) Dichlorotetrafluoroethane	3.17	85	1181677	9.486	ppbv	100
9) Propene	2.99	41	523020	9.462	ppbv	97
10) Heptane	8.17	43	1332631	9.250	ppbv	99
11) Trichlorofluoromethane	3.94	101	1226318	9.545	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	847835	10.084	ppbv	99
13) Ethanol	3.59	45	111692	8.344	ppbv	95
14) Bromoethene	3.73	108	361165	10.506	ppbv	98
15) Acetone	3.84	43	1318894	10.298	ppbv	99
16) 1,3-Butadiene	3.31	39	535875	9.588	ppbv	99
17) tert-Butyl alcohol	4.29	59	839182	10.342	ppbv	99
18) 1,1-Dichloroethene	4.29	96	393377	10.727	ppbv	86
19) Isopropyl Alcohol	3.97	45	726265	9.222	ppbv	100
20) Methylene Chloride	4.34	84	347549	9.412	ppbv	90
21) Allyl Chloride	4.42	41	737987	10.202	ppbv	99
22) trans-1,2-Dichloroethene	4.90	96	400219	10.908	ppbv	95
23) Vinyl Acetate	5.09	43	1951512	10.341	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1145956	9.018	ppbv	99
25) Ethyl Acetate	5.70	43	2143998	8.853	ppbv	99
26) Hexane	5.71	57	921870	9.151	ppbv	97
27) Carbon Disulfide	4.56	76	985258	10.604	ppbv	99
28) Methyl tert-Butyl Ether	5.04	73	1509193	10.087	ppbv	97
29) Chloroform	5.78	83	1367142	9.497	ppbv	99
30) Cyclohexane	7.17	84	734932	10.105	ppbv	93
31) cis-1,2-Dichloroethene	5.57	61	969807	9.443	ppbv	93
32) 1,1,1-Trichloroethane	6.54	97	1290110	9.292	ppbv	97
34) 2-Butanone	5.26	43	1517001	8.115	ppbv	96
35) Carbon Tetrachloride	7.05	117	1243887	8.178	ppbv	100
36) Benzene	6.92	78	1808768	8.946	ppbv	98
37) 1,2-Dichloroethane	6.34	62	1125038	7.823	ppbv	98
38) Trichloroethene	7.88	130	583554	8.077	ppbv	99
39) 1,2-Dichloropropane	7.65	63	763794	8.407	ppbv	92
40) 1,4-Dioxane	7.87	88	258923	8.807	ppbv #	83
41) Tetrahydrofuran	6.07	42	895069	8.502	ppbv	96
42) Bromodichloromethane	7.84	83	1479165	8.570	ppbv	99
43) Methyl Methacrylate	8.06	69	780669	9.346	ppbv	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.91	57	3197691	8.215	ppbv	97
45) t-1,3-Dichloropropene	9.34	75	969116	9.813	ppbv	95
46) cis-1,3-Dichloropropene	8.75	75	1115990	9.394	ppbv	90
47) 1,1,2-Trichloroethane	9.53	97	714373	8.757	ppbv	97
48) Dibromochloromethane	10.37	129	1136026	8.786	ppbv	99
49) Bromoform	13.11	173	995496	9.514	ppbv	98
50) 4-Methyl-2-Pentanone	8.79	43	2205695	8.108	ppbv	99
51) 2-Hexanone	10.19	43	1906303	8.350	ppbv #	96
52) Tetrachloroethene	11.29	164	583847	8.740	ppbv	96
53) Toluene	9.86	91	2025904	9.168	ppbv	98
54) 1,2-Dibromoethane	10.67	107	1090383	8.988	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.19	131	766556	8.780	ppbv	100
57) Chlorobenzene	12.21	112	1407976	8.261	ppbv	99
58) Ethyl Benzene	12.78	91	2750403	8.707	ppbv	99
59) m/p-Xylene	13.06	91	4475004m	17.105	ppbv	
60) o-Xylene	13.76	91	2211162	8.452	ppbv	99
61) Styrene	13.60	104	1675578	8.942	ppbv	98
62) Isopropylbenzene	14.74	105	2874915	8.489	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.75	83	1635189	7.623	ppbv	99
64) n-propylbenzene	15.64	120	752448	8.782	ppbv	93
65) tert-Butylbenzene	16.82	119	2472665	8.356	ppbv	99
66) Benzyl Chloride	17.07	91	1301656	12.434	ppbv	99
67) sec-Butylbenzene	17.37	105	3612628	8.538	ppbv	99
69) p-Isopropyltoluene	17.73	119	2942257	8.587	ppbv	98
70) n-Butylbenzene	18.63	91	3359708	8.421	ppbv	98
71) 2-Chlorotoluene	15.53	91	2401100	8.678	ppbv	99
72) 4-Ethyltoluene	15.92	105	2553324	8.639	ppbv	98
73) 1,3,5-Trimethylbenzene	16.07	105	2443537	8.558	ppbv	99
74) 1,2,4-Trimethylbenzene	16.84	105	2468348	8.141	ppbv #	92
75) 1,3-Dichlorobenzene	17.08	146	1379250	8.479	ppbv	97
76) 1,4-Dichlorobenzene	17.22	146	1376033	8.260	ppbv	100
77) 1,2-Dichlorobenzene	17.90	146	1362863	8.278	ppbv	99
78) Hexachloro-1,3-Butadiene	23.46	225	1100208	10.089	ppbv	98
79) Naphthalene	22.30	128	2544786	9.534	ppbv	99
80) Naphthalene,2-methyl-	25.04	142	1047133	8.436	ppbv	99
81) 1,2,4-Trichlorobenzene	22.03	180	1248200	8.442	ppbv	100

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

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