

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033257.D
 Acq On : 8 Mar 2019 13:27
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 10:10:08 AM

Quant Time: Mar 09 04:33:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 09
 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	974054	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2288512	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2323172	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1976715	11.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.10%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	381556	2.773	ppbv	97
3) Chlorodifluoromethane	3.01	51	231886	2.080	ppbv	98
4) Chloromethane	3.17	50	119750	2.087	ppbv	93
5) Vinyl Chloride	3.29	62	117834	1.831	ppbv	99
6) Bromomethane	3.52	94	74704	2.030	ppbv	83
7) Chloroethane	3.60	64	43999	2.046	ppbv	92
8) Dichlorotetrafluoroethane	3.22	85	305688	2.247	ppbv	99
9) Propene	3.04	41	103977	2.093	ppbv	98
10) Heptane	8.24	43	271864	2.011	ppbv	99
11) Trichlorofluoromethane	4.00	101	344076	2.130	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	225337	2.151	ppbv	98
13) Ethanol	3.65	45	33369m	2.247	ppbv	
14) Bromoethene	3.79	108	94067	2.132	ppbv	100
15) Acetone	3.90	43	258148	2.059	ppbv	97
16) 1,3-Butadiene	3.36	39	100538	2.009	ppbv	91
17) tert-Butyl alcohol	4.37	59	39677m	1.942	ppbv	
18) 1,1-Dichloroethene	4.35	96	102635	2.201	ppbv	98
19) Isopropyl Alcohol	4.03	45	138738	1.862	ppbv #	98
20) Methylene Chloride	4.41	84	106479	2.241	ppbv	98
21) Allyl Chloride	4.47	41	146633	2.096	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	102025	2.143	ppbv	93
23) Vinyl Acetate	5.15	43	352813	1.908	ppbv #	98
24) 1,1-Dichloroethane	5.09	63	255789	1.940	ppbv	98
25) Ethyl Acetate	5.77	43	468900	2.040	ppbv	99
26) Hexane	5.78	57	222211	2.069	ppbv	95
27) Carbon Disulfide	4.62	76	225170	2.174	ppbv	97
28) Methyl tert-Butyl Ether	5.12	73	284702	1.922	ppbv	100
29) Chloroform	5.84	83	334144	2.000	ppbv	98
30) Cyclohexane	7.24	84	162794	2.024	ppbv	88
31) cis-1,2-Dichloroethene	5.64	61	206152	1.987	ppbv	93
32) 1,1,1-Trichloroethane	6.61	97	306036	1.888	ppbv	99
34) 2-Butanone	5.33	43	298711	1.884	ppbv	99
35) Carbon Tetrachloride	7.13	117	325328	1.879	ppbv	99
36) Benzene	7.00	78	413413	1.925	ppbv	97
37) 1,2-Dichloroethane	6.41	62	255306	1.910	ppbv	100
38) Trichloroethene	7.95	130	158043	1.948	ppbv	98
39) 1,2-Dichloropropane	7.73	63	158036	1.885	ppbv	98
40) 1,4-Dioxane	7.97	88	58888m	1.893	ppbv	
41) Tetrahydrofuran	6.15	42	162398	1.864	ppbv	99
42) Bromodichloromethane	7.91	83	354249	1.874	ppbv	98
43) Methyl Methacrylate	8.14	69	159016	1.830	ppbv	93

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44) 2,2,4-Trimethylpentane	7.99	57	732861	1.929	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	192236	1.828	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	227349	1.813	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	168873	1.871	ppbv	97
48) Dibromochloromethane	10.44	129	282794	1.935	ppbv	99
49) Bromoform	13.20	173	252594	2.164	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	438196	1.868	ppbv	100
51) 2-Hexanone	10.27	43	329717	1.879	ppbv #	98
52) Tetrachloroethene	11.37	164	151279	1.890	ppbv	97
53) Toluene	9.94	91	473991	1.909	ppbv	98
54) 1,2-Dibromoethane	10.75	107	258549	1.886	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.28	131	202529	2.008	ppbv #	1
57) Chlorobenzene	12.29	112	353066	1.952	ppbv	99
58) Ethyl Benzene	12.86	91	728423	2.267	ppbv	98
59) m/p-Xylene	13.12	91	1248527m	4.560	ppbv	
60) o-Xylene	13.85	91	609447	2.334	ppbv	98
61) Styrene	13.68	104	412880m	2.249	ppbv	
62) Isopropylbenzene	14.82	105	824241	2.264	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	390963	2.104	ppbv	98
64) n-propylbenzene	15.72	120	202803	2.248	ppbv	96
65) tert-Butylbenzene	16.90	119	721625	2.322	ppbv	99
66) Benzyl Chloride	17.15	91	241577m	2.010	ppbv	
67) sec-Butylbenzene	17.45	105	1009390	2.278	ppbv	99
69) p-Isopropyltoluene	17.81	119	828196	2.312	ppbv	100
70) n-Butylbenzene	18.71	91	886534	2.259	ppbv	99
71) 2-Chlorotoluene	15.61	91	630114m	2.264	ppbv	
72) 4-Ethyltoluene	15.99	105	650832	2.281	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	624872	2.282	ppbv	94
74) 1,2,4-Trimethylbenzene	16.92	105	641440	2.228	ppbv #	91
75) 1,3-Dichlorobenzene	17.16	146	378286	2.247	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	365040	2.188	ppbv	99
77) 1,2-Dichlorobenzene	17.98	146	370049	2.264	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	272662	2.357	ppbv	100
79) Naphthalene	22.41	128	626695	1.780	ppbv	96
80) Naphthalene, 2-methyl-	25.12	142	71986	0.684	ppbv	98
81) 1,2,4-Trichlorobenzene	22.13	180	337336	1.907	ppbv	98

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

