

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061920\
 Data File : VL035097.D
 Acq On : 19 Jun 2020 16:34
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 6/22/2020 2:08:55 PM

Quant Time: Jun 20 01:40:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 2020
 QLast Update : Sat Jun 20 01:15:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1387078	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3214989	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3153304	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2549183	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	368795	1.849	ppbv	95
3) Chlorodifluoromethane	2.94	51	331952	2.091	ppbv	97
4) Chloromethane	3.09	50	180565	1.987	ppbv	92
5) Vinyl Chloride	3.21	62	174967	1.977	ppbv	95
6) Bromomethane	3.43	94	105363	1.988	ppbv	87
7) Chloroethane	3.51	64	62574	1.970	ppbv	98
8) Dichlorotetrafluoroethane	3.14	85	430457	2.104	ppbv	98
9) Propene	2.96	41	133438	1.961	ppbv	98
10) Heptane	8.12	43	338429	1.984	ppbv	97
11) Trichlorofluoromethane	3.91	101	415644	2.048	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.46	101	277179	1.922	ppbv	97
13) Ethanol	3.56	45	52206m	2.373	ppbv	
14) Bromoethene	3.70	108	126637	2.121	ppbv	97
15) Acetone	3.82	43	357026	1.950	ppbv	97
16) 1,3-Butadiene	3.28	39	156227	1.980	ppbv	98
17) tert-Butyl alcohol	4.26	59	293776	1.809	ppbv	98
18) 1,1-Dichloroethene	4.25	96	129936	2.075	ppbv	97
19) Isopropyl Alcohol	3.93	45	212721	1.764	ppbv #	96
20) Methylene Chloride	4.31	84	150258	2.481	ppbv	96
21) Allyl Chloride	4.38	41	204947	1.988	ppbv	99
22) trans-1,2-Dichloroethene	4.86	96	118824	1.936	ppbv	98
23) Vinyl Acetate	5.05	43	454242	1.978	ppbv #	98
24) 1,1-Dichloroethane	4.98	63	359132	2.007	ppbv	100
25) Ethyl Acetate	5.65	43	646569	2.104	ppbv	99
26) Hexane	5.67	57	306811	2.301	ppbv	94
27) Carbon Disulfide	4.52	76	286506	1.842	ppbv	97
28) Methyl tert-Butyl Ether	5.01	73	415041	2.050	ppbv	99
29) Chloroform	5.73	83	440456	2.013	ppbv	94
30) Cyclohexane	7.13	84	210132	2.032	ppbv	97
31) cis-1,2-Dichloroethene	5.53	61	263445	2.017	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	410462	2.075	ppbv	99
34) 2-Butanone	5.22	43	407347	2.053	ppbv	99
35) Carbon Tetrachloride	7.01	117	409112	2.019	ppbv	96
36) Benzene	6.88	78	542726	2.051	ppbv	96
37) 1,2-Dichloroethane	6.29	62	331470	2.025	ppbv	99
38) Trichloroethene	7.84	130	206472m	2.005	ppbv	
39) 1,2-Dichloropropane	7.61	63	203928	1.924	ppbv	97
40) 1,4-Dioxane	7.84	88	77175m	1.827	ppbv	
41) Tetrahydrofuran	6.03	42	206184m	1.980	ppbv	
42) Bromodichloromethane	7.79	83	444280	2.014	ppbv	98
43) Methyl Methacrylate	8.01	69	225516	2.020	ppbv	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	955691	2.033	ppbv	100
45) t-1,3-Dichloropropene	9.29	75	214892	1.917	ppbv	96
46) cis-1,3-Dichloropropene	8.71	75	270322	1.961	ppbv	93
47) 1,1,2-Trichloroethane	9.48	97	224792	2.002	ppbv	95
48) Dibromochloromethane	10.32	129	343259	1.992	ppbv	99
49) Bromoform	13.07	173	291913	1.976	ppbv	99
50) 4-Methyl-2-Pentanone	8.74	43	572923	2.025	ppbv	99
51) 2-Hexanone	10.14	43	462471	2.095	ppbv #	97
52) Tetrachloroethene	11.24	164	184652m	1.956	ppbv	
53) Toluene	9.81	91	592290	2.110	ppbv	99
54) 1,2-Dibromoethane	10.63	107	334137	2.030	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.14	131	280604m	1.995	ppbv	
57) Chlorobenzene	12.17	112	493143	1.992	ppbv	96
58) Ethyl Benzene	12.73	91	806240	2.100	ppbv	94
59) m/p-Xylene	13.01	91	1406127m	4.154	ppbv	
60) o-Xylene	13.71	91	682976	2.043	ppbv	99
61) Styrene	13.55	104	439875	2.086	ppbv	100
62) Isopropylbenzene	14.69	105	1039560	2.087	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.70	83	524616	1.985	ppbv	98
64) n-propylbenzene	15.59	120	261682	2.044	ppbv	84
65) tert-Butylbenzene	16.78	119	919865	2.123	ppbv	98
66) Benzyl Chloride	17.02	91	249081	1.734	ppbv	98
67) sec-Butylbenzene	17.33	105	1312621	2.126	ppbv	98
69) p-Isopropyltoluene	17.68	119	1064149m	2.132	ppbv	
70) n-Butylbenzene	18.58	91	1154413	2.176	ppbv	97
71) 2-Chlorotoluene	15.48	91	798426	2.121	ppbv	97
72) 4-Ethyltoluene	15.87	105	776122	2.079	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	750065	2.072	ppbv	97
74) 1,2,4-Trimethylbenzene	16.79	105	842533	2.132	ppbv	94
75) 1,3-Dichlorobenzene	17.02	146	470185	2.018	ppbv	98
76) 1,4-Dichlorobenzene	17.17	146	466538	2.110	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	453286	2.077	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	422395	2.260	ppbv	98
79) Naphthalene	22.25	128	751026	2.463	ppbv	98
80) Naphthalene, 2-methyl-	25.01	142	275190	3.583	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	412911	2.222	ppbv	99

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

