

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL034001.D
 Acq On : 3 Jul 2019 1:56
 Operator : SY/AP
 Sample : K3591-14 L00 0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:39 PM

Quant Time: Jul 03 09:17:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 09:17:48 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	953550	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2675226	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2474007	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2064413	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	121304	0.616	ppbv	99
3) Chlorodifluoromethane	3.00	51	64292	0.546	ppbv	100
4) Chloromethane	3.16	50	33362	0.493	ppbv	93
5) Vinyl Chloride	3.27	62	36898	0.485	ppbv	98
6) Bromomethane	3.50	94	25270m	0.563	ppbv	
7) Chloroethane	3.59	64	15603	0.573	ppbv #	82
8) Dichlorotetrafluoroethane	3.21	85	104727	0.546	ppbv	97
9) Propene	3.02	41	19523	0.451	ppbv	91
10) Heptane	8.21	43	44811m	0.413	ppbv	
11) Trichlorofluoromethane	3.98	101	117726	0.532	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.53	101	85448	0.546	ppbv	97
13) Ethanol	3.64	45	6119m	0.455	ppbv	
14) Bromoethene	3.77	108	29549	0.505	ppbv	100
15) Acetone	3.89	43	85121	0.531	ppbv	98
16) 1,3-Butadiene	3.35	39	24640	0.435	ppbv	90
17) tert-Butyl alcohol	4.36	59	67732m	0.530	ppbv	
18) 1,1-Dichloroethene	4.33	96	34447m	0.494	ppbv	
19) Isopropyl Alcohol	4.02	45	53309	0.495	ppbv #	92
20) Methylene Chloride	4.39	84	37168	0.532	ppbv	88
21) Allyl Chloride	4.46	41	48061	0.481	ppbv	96
22) trans-1,2-Dichloroethene	4.94	96	36310	0.546	ppbv	94
23) Vinyl Acetate	5.13	43	63101	0.394	ppbv #	95
24) 1,1-Dichloroethane	5.06	63	70064	0.494	ppbv #	94
25) Ethyl Acetate	5.75	43	102978	0.470	ppbv	97
26) Hexane	5.75	57	50119m	0.499	ppbv	
27) Carbon Disulfide	4.60	76	80996	0.475	ppbv #	82
28) Methyl tert-Butyl Ether	5.10	73	71092	0.418	ppbv	94
29) Chloroform	5.82	83	102632	0.544	ppbv	91
30) Cyclohexane	7.22	84	33526m	0.433	ppbv	
31) cis-1,2-Dichloroethene	5.62	61	41357	0.427	ppbv #	82
32) 1,1,1-Trichloroethane	6.59	97	100643	0.527	ppbv	98
34) 2-Butanone	5.31	43	55061m	0.389	ppbv	
35) Carbon Tetrachloride	7.10	117	105570	0.498	ppbv	90
36) Benzene	6.97	78	86491	0.413	ppbv #	82
37) 1,2-Dichloroethane	6.38	62	75079m	0.487	ppbv	
38) Trichloroethene	7.93	130	36380m	0.391	ppbv	
39) 1,2-Dichloropropane	7.71	63	34843	0.448	ppbv #	87
40) 1,4-Dioxane	7.98	88	13454m	0.374	ppbv	
41) Tetrahydrofuran	6.15	42	21832m	0.314	ppbv	
42) Bromodichloromethane	7.88	83	96799	0.468	ppbv	86
43) Methyl Methacrylate	8.12	69	26824m	0.338	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.96	57	140707m	0.389	ppbv	
45) t-1,3-Dichloropropene	9.38	75	33911m	0.327	ppbv	
46) cis-1,3-Dichloropropene	8.80	75	39101	0.325	ppbv	# 66
47) 1,1,2-Trichloroethane	9.58	97	41737	0.426	ppbv	93
48) Dibromochloromethane	10.41	129	77396	0.414	ppbv	97
49) Bromoform	13.16	173	71946	0.451	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	76907m	0.366	ppbv	
51) 2-Hexanone	10.27	43	49062m	0.290	ppbv	
52) Tetrachloroethene	11.34	164	36997m	0.411	ppbv	
53) Toluene	9.91	91	75245	0.314	ppbv	97
54) 1,2-Dibromoethane	10.72	107	60825	0.421	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.24	131	60401m	0.546	ppbv	
57) Chlorobenzene	12.26	112	107665m	0.547	ppbv	
58) Ethyl Benzene	12.83	91	106375	0.358	ppbv	93
59) m/p-Xylene	13.12	91	227605m	0.845	ppbv	
60) o-Xylene	13.81	91	114333	0.424	ppbv	96
61) Styrene	13.65	104	55063m	0.309	ppbv	
62) Isopropylbenzene	14.79	105	163533	0.395	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	107184m	0.514	ppbv	
64) n-propylbenzene	15.69	120	41471m	0.386	ppbv	
65) tert-Butylbenzene	16.88	119	145983m	0.414	ppbv	
66) Benzyl Chloride	17.12	91	68408m	0.380	ppbv	
67) sec-Butylbenzene	17.42	105	217606	0.440	ppbv	98
69) p-Isopropyltoluene	17.78	119	161333	0.396	ppbv	99
70) n-Butylbenzene	18.68	91	171203	0.400	ppbv	99
71) 2-Chlorotoluene	15.58	91	104324m	0.344	ppbv	
72) 4-Ethyltoluene	15.97	105	123594m	0.357	ppbv	
73) 1,3,5-Trimethylbenzene	16.12	105	131626m	0.409	ppbv	
74) 1,2,4-Trimethylbenzene	16.88	105	167508m	0.470	ppbv	
75) 1,3-Dichlorobenzene	17.13	146	119272m	0.526	ppbv	
76) 1,4-Dichlorobenzene	17.27	146	101567m	0.476	ppbv	
77) 1,2-Dichlorobenzene	17.96	146	103453m	0.493	ppbv	
78) Hexachloro-1,3-Butadiene	23.51	225	100805m	0.565	ppbv	
79) Naphthalene	22.38	128	96970m	0.323	ppbv	
80) Naphthalene, 2-methyl-	25.09	142	35839	0.328	ppbv	96
81) 1,2,4-Trichlorobenzene	22.09	180	76454m	0.397	ppbv	

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

