

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101821\
 Data File : VL037858.D
 Acq On : 18 Oct 2021 18:47
 Operator : SY/AP
 Sample : M4068-13 0.45 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2021

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/25/2021
 Supervised By : Mahesh Dadoda 10/27/2021

Quant Time: Oct 19 09:02:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL100421A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1264482	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3712690	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2821109m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2276999	11.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	130844	0.648 ppbv	100
3) Chlorodifluoromethane	2.99	51	126316	0.520 ppbv	100
4) Chloromethane	3.14	50	48585	0.546 ppbv #	88
5) Vinyl Chloride	3.26	62	41312	0.506 ppbv	92
6) Bromomethane	3.48	94	22821m	0.517 ppbv	
7) Chloroethane	3.56	64	16346m	0.545 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	111011	0.556 ppbv	99
9) Propene	3.01	41	44198m	0.494 ppbv	
10) Heptane	8.13	43	78990	0.389 ppbv	95
11) Trichlorofluoromethane	3.95	101	91257	0.506 ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	74203m	0.543 ppbv	
13) Ethanol	3.64	45	4445m	0.608 ppbv	
14) Bromoethene	3.75	108	31235m	0.520 ppbv	
15) Acetone	3.88	43	71744m	0.632 ppbv	
16) 1,3-Butadiene	3.33	39	44473m	0.538 ppbv	
17) tert-Butyl alcohol	4.32	59	64138m	0.549 ppbv	
18) 1,1-Dichloroethene	4.29	96	35472m	0.572 ppbv	
19) Isopropyl Alcohol	3.99	45	39348m	0.557 ppbv	
20) Methylene Chloride	4.35	84	48328m	0.843 ppbv	
21) Allyl Chloride	4.42	41	40612	0.404 ppbv #	79
22) trans-1,2-Dichloroethene	4.89	96	28869	0.463 ppbv	91
23) Vinyl Acetate	5.09	43	75215m	0.442 ppbv	
24) 1,1-Dichloroethane	5.01	63	68404m	0.552 ppbv	
25) Ethyl Acetate	5.69	43	137649	0.432 ppbv #	94
26) Hexane	5.69	57	73222m	0.467 ppbv	
27) Carbon Disulfide	4.56	76	56814	0.409 ppbv #	86
28) Methyl tert-Butyl Ether	5.05	73	59041	0.452 ppbv	98
29) Chloroform	5.75	83	115097	0.513 ppbv	99
30) Cyclohexane	7.14	84	61537m	0.463 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	60970m	0.428 ppbv	
32) 1,1,1-Trichloroethane	6.51	97	104902m	0.494 ppbv	
34) 2-Butanone	5.27	43	71113m	0.474 ppbv	
35) Carbon Tetrachloride	7.02	117	100146m	0.475 ppbv	
36) Benzene	6.89	78	133853m	0.422 ppbv	
37) 1,2-Dichloroethane	6.31	62	73046	0.489 ppbv	96
38) Trichloroethene	7.83	130	56867m	0.454 ppbv	
39) 1,2-Dichloropropane	7.62	63	56166m	0.471 ppbv	
40) 1,4-Dioxane	7.87	88	14800m	0.496 ppbv	
41) Tetrahydrofuran	6.09	42	23009m	0.313 ppbv	
42) Bromodichloromethane	7.80	83	105262m	0.480 ppbv	
43) Methyl Methacrylate	8.03	69	31576m	0.305 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	230769	0.433	ppbv	94
45) t-1,3-Dichloropropene	9.29	75	22476m	0.315	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	27853	0.282	ppbv #	86
47) 1,1,2-Trichloroethane	9.47	97	61978m	0.478	ppbv	
48) Dibromochloromethane	10.31	129	74559m	0.403	ppbv	
49) Bromoform	13.04	173	53024m	0.375	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	67958m	0.348	ppbv	
52) Tetrachloroethene	11.22	164	53784m	0.436	ppbv	
53) Toluene	9.81	91	118256	0.336	ppbv	97
54) 1,2-Dibromoethane	10.61	107	71903m	0.411	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	71871m	0.615	ppbv	
57) Chlorobenzene	12.14	112	138731m	0.599	ppbv	
58) Ethyl Benzene	12.72	91	152078	0.401	ppbv	95
59) m/p-Xylene	13.00	91	297731m	0.916	ppbv	
60) o-Xylene	13.69	91	138291	0.444	ppbv	96
61) Styrene	13.53	104	44883m	0.298	ppbv	
62) Isopropylbenzene	14.67	105	215826	0.497	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.68	83	137503m	0.572	ppbv	
64) n-propylbenzene	15.56	120	48399m	0.447	ppbv	
65) tert-Butylbenzene	16.75	119	181754	0.475	ppbv	94
66) Benzyl Chloride	16.99	91	7365m	0.390	ppbv	
67) sec-Butylbenzene	17.30	105	263501	0.504	ppbv	99
69) p-Isopropyltoluene	17.66	119	199618m	0.472	ppbv	
70) n-Butylbenzene	18.55	91	179316m	0.446	ppbv	
71) 2-Chlorotoluene	15.46	91	135333	0.441	ppbv	99
72) 4-Ethyltoluene	15.84	105	141623	0.400	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.00	105	161172m	0.501	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	179529m	0.532	ppbv	
75) 1,3-Dichlorobenzene	17.00	146	125638m	0.601	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	113449m	0.569	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	106872m	0.532	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	106339m	0.648	ppbv	
79) Naphthalene	22.20	128	63707m	0.308	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	51118m	0.387	ppbv	

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

