

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037905.D
 Acq On : 25 Oct 2021 22:23
 Operator : SY/AP
 Sample : M4068-15 0.45
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 MDL-AIR-03-QT4-2021

Manual Integrations
 APPROVED

Quant Time: Oct 27 12:14:24 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

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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1423144	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	4253123	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3606572	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2580090	10.23	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	119828	0.527	ppbv	95
3) Chlorodifluoromethane	3.00	51	131115	0.479	ppbv	97
4) Chloromethane	3.16	50	48393	0.483	ppbv	99
5) Vinyl Chloride	3.28	62	43210	0.471	ppbv	97
6) Bromomethane	3.49	94	23580m	0.475	ppbv	
7) Chloroethane	3.57	64	16496m	0.489	ppbv	
8) Dichlorotetrafluoroethane	3.20	85	118780	0.529	ppbv	95
9) Propene	3.02	41	40409m	0.402	ppbv	
10) Heptane	8.14	43	79596m	0.348	ppbv	
11) Trichlorofluoromethane	3.96	101	92538	0.456	ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.50	101	73951m	0.481	ppbv	
13) Ethanol	3.64	45	3800m	0.462	ppbv	
14) Bromoethene	3.76	108	28020	0.415	ppbv #	89
15) Acetone	3.89	43	65336m	0.511	ppbv	
16) 1,3-Butadiene	3.35	39	38649m	0.416	ppbv	
17) tert-Butyl alcohol	4.33	59	54554m	0.415	ppbv	
18) 1,1-Dichloroethene	4.30	96	32195m	0.461	ppbv	
19) Isopropyl Alcohol	4.01	45	32739m	0.412	ppbv	
20) Methylene Chloride	4.36	84	36273	0.562	ppbv #	89
21) Allyl Chloride	4.43	41	40900	0.361	ppbv #	78
22) trans-1,2-Dichloroethene	4.90	96	30519m	0.435	ppbv	
23) Vinyl Acetate	5.11	43	78643m	0.411	ppbv	
24) 1,1-Dichloroethane	5.03	63	71071	0.510	ppbv	98
25) Ethyl Acetate	5.71	43	136643	0.381	ppbv #	95
26) Hexane	5.70	57	60088	0.340	ppbv #	73
27) Carbon Disulfide	4.57	76	55677	0.356	ppbv	96
28) Methyl tert-Butyl Ether	5.07	73	65095	0.443	ppbv	91
29) Chloroform	5.77	83	114641	0.454	ppbv	97
30) Cyclohexane	7.16	84	60569m	0.405	ppbv	
31) cis-1,2-Dichloroethene	5.57	61	53304	0.333	ppbv	94
32) 1,1,1-Trichloroethane	6.53	97	102357	0.428	ppbv	94
34) 2-Butanone	5.29	43	64414m	0.375	ppbv	
35) Carbon Tetrachloride	7.03	117	105524	0.437	ppbv #	93
36) Benzene	6.91	78	121606	0.335	ppbv #	92
37) 1,2-Dichloroethane	6.33	62	72004m	0.421	ppbv	
38) Trichloroethene	7.85	130	52023	0.362	ppbv	96
39) 1,2-Dichloropropane	7.64	63	54168m	0.396	ppbv	
40) 1,4-Dioxane	7.90	88	13220m	0.387	ppbv	
41) Tetrahydrofuran	6.10	42	21743m	0.259	ppbv	
42) Bromodichloromethane	7.81	83	104598m	0.416	ppbv	
43) Methyl Methacrylate	8.05	69	32412m	0.273	ppbv	

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44) 2,2,4-Trimethylpentane	7.89	57	215166	0.353	ppbv #	88
45) t-1,3-Dichloropropene	9.30	75	22283m	0.273	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	31360m	0.277	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	61002m	0.411	ppbv	
48) Dibromochloromethane	10.33	129	74625	0.352	ppbv	94
49) Bromoform	13.06	173	50717	0.313	ppbv #	84
50) 4-Methyl-2-Pentanone	8.79	43	63538m	0.284	ppbv	
51) 2-Hexanone	10.19	43	24940m	0.250	ppbv	
52) Tetrachloroethene	11.24	164	50775m	0.359	ppbv	
53) Toluene	9.82	91	100676	0.250	ppbv	98
54) 1,2-Dibromoethane	10.63	107	65592	0.327	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	70025m	0.469	ppbv	
57) Chlorobenzene	12.16	112	139829	0.473	ppbv	91
58) Ethyl Benzene	12.73	91	140356	0.290	ppbv	94
59) m/p-Xylene	13.01	91	284581m	0.685	ppbv	
60) o-Xylene	13.71	91	135123m	0.339	ppbv	
61) Styrene	13.55	104	39687m	0.206	ppbv	
62) Isopropylbenzene	14.69	105	220275m	0.396	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.69	83	132960	0.432	ppbv	95
64) n-propylbenzene	15.58	120	47214	0.341	ppbv	75
65) tert-Butylbenzene	16.76	119	170660	0.349	ppbv	90
66) Benzyl Chloride	17.00	91	10246m	0.425	ppbv	
67) sec-Butylbenzene	17.31	105	239652	0.358	ppbv	99
69) p-Isopropyltoluene	17.68	119	171399m	0.317	ppbv	
70) n-Butylbenzene	18.57	91	153189	0.298	ppbv	99
71) 2-Chlorotoluene	15.47	91	127546m	0.325	ppbv	
72) 4-Ethyltoluene	15.86	105	129755	0.287	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.01	105	135130	0.329	ppbv	96
74) 1,2,4-Trimethylbenzene	16.78	105	165055m	0.383	ppbv	
75) 1,3-Dichlorobenzene	17.01	146	116232m	0.435	ppbv	
76) 1,4-Dichlorobenzene	17.16	146	96169m	0.377	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	103585m	0.403	ppbv	
78) Hexachloro-1,3-Butadiene	23.39	225	105401m	0.503	ppbv	
79) Naphthalene	22.22	128	54113m	0.205	ppbv	
80) Naphthalene, 2-methyl-	24.98	142	6917m	0.097	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	49040m	0.290	ppbv	

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

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