

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037902.D
 Acq On : 25 Oct 2021 20:32
 Operator : SY/AP
 Sample : M4068-15 0.40
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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

Quant Time: Oct 27 12:10:56 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	5.68	49	1437234	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	4259647	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	3591190	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2551380	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	99587	0.434 ppbv	89
3) Chlorodifluoromethane	3.01	51	119215	0.432 ppbv	97
4) Chloromethane	3.16	50	41900	0.414 ppbv	94
5) Vinyl Chloride	3.27	62	38707	0.417 ppbv	90
6) Bromomethane	3.49	94	20848	0.416 ppbv	94
7) Chloroethane	3.57	64	15061m	0.442 ppbv	
8) Dichlorotetrafluoroethane	3.20	85	95536	0.421 ppbv	93
9) Propene	3.03	41	40571m	0.399 ppbv	
10) Heptane	8.14	43	67765m	0.294 ppbv	
11) Trichlorofluoromethane	3.96	101	86643	0.423 ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.50	101	64519m	0.416 ppbv	
13) Ethanol	3.65	45	3519m	0.423 ppbv	
14) Bromoethene	3.76	108	28894m	0.423 ppbv	
15) Acetone	3.89	43	58578m	0.454 ppbv	
16) 1,3-Butadiene	3.34	39	40305m	0.429 ppbv	
17) tert-Butyl alcohol	4.33	59	49167m	0.370 ppbv	
18) 1,1-Dichloroethene	4.31	96	27388	0.388 ppbv	93
19) Isopropyl Alcohol	4.02	45	31981m	0.398 ppbv	
20) Methylene Chloride	4.37	84	36309m	0.557 ppbv	
21) Allyl Chloride	4.42	41	40042	0.350 ppbv #	79
22) trans-1,2-Dichloroethene	4.90	96	30580m	0.431 ppbv	
23) Vinyl Acetate	5.11	43	69496m	0.359 ppbv	
24) 1,1-Dichloroethane	5.03	63	65772	0.467 ppbv #	95
25) Ethyl Acetate	5.71	43	122562	0.339 ppbv #	91
26) Hexane	5.70	57	60136m	0.337 ppbv	
27) Carbon Disulfide	4.57	76	49610	0.314 ppbv #	93
28) Methyl tert-Butyl Ether	5.07	73	65968m	0.444 ppbv	
29) Chloroform	5.77	83	100128	0.393 ppbv	96
30) Cyclohexane	7.15	84	51887m	0.343 ppbv	
31) cis-1,2-Dichloroethene	5.57	61	52097	0.322 ppbv	94
32) 1,1,1-Trichloroethane	6.53	97	91468	0.379 ppbv	96
34) 2-Butanone	5.28	43	54737m	0.318 ppbv	
35) Carbon Tetrachloride	7.04	117	88000	0.364 ppbv	97
36) Benzene	6.91	78	115779	0.318 ppbv	96
37) 1,2-Dichloroethane	6.32	62	65620m	0.383 ppbv	
38) Trichloroethene	7.85	130	49237m	0.343 ppbv	
39) 1,2-Dichloropropane	7.64	63	53595m	0.392 ppbv	
40) 1,4-Dioxane	7.90	88	11835m	0.346 ppbv	
41) Tetrahydrofuran	6.09	42	20877m	0.248 ppbv	
42) Bromodichloromethane	7.81	83	89081m	0.354 ppbv	
43) Methyl Methacrylate	8.04	69	32396m	0.273 ppbv	

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44) 2,2,4-Trimethylpentane	7.88	57	195300m	0.319	ppbv	
45) t-1,3-Dichloropropene	9.30	75	18971m	0.232	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	29458m	0.260	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	53864	0.362	ppbv #	86
48) Dibromochloromethane	10.33	129	65179m	0.307	ppbv	
49) Bromoform	13.06	173	45872m	0.283	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	58948m	0.263	ppbv	
51) 2-Hexanone	10.18	43	22608m	0.226	ppbv	
52) Tetrachloroethene	11.24	164	45061m	0.318	ppbv	
53) Toluene	9.83	91	98847m	0.245	ppbv	
54) 1,2-Dibromoethane	10.63	107	61506m	0.306	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.15	131	60053m	0.404	ppbv	
57) Chlorobenzene	12.17	112	129230m	0.439	ppbv	
58) Ethyl Benzene	12.73	91	122237m	0.253	ppbv	
59) m/p-Xylene	13.01	91	245700m	0.594	ppbv	
60) o-Xylene	13.71	91	113428	0.286	ppbv	96
61) Styrene	13.54	104	35148	0.183	ppbv	91
62) Isopropylbenzene	14.69	105	181694	0.328	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	126737m	0.414	ppbv	
64) n-propylbenzene	15.58	120	44333m	0.321	ppbv	
65) tert-Butylbenzene	16.77	119	158995	0.327	ppbv	98
66) Benzyl Chloride	17.00	91	8178m	0.340	ppbv	
67) sec-Butylbenzene	17.31	105	203045	0.305	ppbv	98
69) p-Isopropyltoluene	17.67	119	152178m	0.283	ppbv	
70) n-Butylbenzene	18.57	91	139860m	0.273	ppbv	
71) 2-Chlorotoluene	15.47	91	112559	0.288	ppbv	98
72) 4-Ethyltoluene	15.86	105	119690	0.266	ppbv #	93
73) 1,3,5-Trimethylbenzene	16.01	105	119768m	0.293	ppbv	
74) 1,2,4-Trimethylbenzene	16.78	105	150436m	0.350	ppbv	
75) 1,3-Dichlorobenzene	17.02	146	106470m	0.400	ppbv	
76) 1,4-Dichlorobenzene	17.16	146	87277m	0.344	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	93666m	0.366	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	86064m	0.412	ppbv	
79) Naphthalene	22.22	128	45783m	0.174	ppbv	
80) Naphthalene,2-methyl-	25.03	142	6461m	0.091	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	44750m	0.266	ppbv	

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

