

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037901.D
 Acq On : 25 Oct 2021 19:55
 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 12:10:08 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	1367256	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	4217214	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3558742	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2533693	10.18	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	106837	0.489 ppbv	97
3) Chlorodifluoromethane	3.00	51	128598	0.490 ppbv	97
4) Chloromethane	3.15	50	45535	0.473 ppbv #	88
5) Vinyl Chloride	3.28	62	44068m	0.500 ppbv	
6) Bromomethane	3.49	94	24742m	0.519 ppbv	
7) Chloroethane	3.57	64	16583m	0.511 ppbv	
8) Dichlorotetrafluoroethane	3.20	85	103343	0.479 ppbv	92
9) Propene	3.02	41	35833	0.371 ppbv	87
10) Heptane	8.14	43	77010m	0.351 ppbv	
11) Trichlorofluoromethane	3.96	101	97013	0.498 ppbv #	82
12) 1,1,2-Trichlorotrifluoroet	4.49	101	64788	0.439 ppbv	86
13) Ethanol	3.64	45	4126m	0.522 ppbv	
14) Bromoethene	3.76	108	30244m	0.466 ppbv	
15) Acetone	3.90	43	62810m	0.512 ppbv	
16) 1,3-Butadiene	3.34	39	42947m	0.481 ppbv	
17) tert-Butyl alcohol	4.33	59	50780m	0.402 ppbv	
18) 1,1-Dichloroethene	4.31	96	32072	0.478 ppbv #	77
19) Isopropyl Alcohol	4.00	45	34798m	0.456 ppbv	
20) Methylene Chloride	4.36	84	37412	0.603 ppbv	84
21) Allyl Chloride	4.42	41	51706m	0.476 ppbv	
22) trans-1,2-Dichloroethene	4.90	96	26644	0.395 ppbv	85
23) Vinyl Acetate	5.10	43	66665	0.362 ppbv #	89
24) 1,1-Dichloroethane	5.03	63	57868	0.432 ppbv	99
25) Ethyl Acetate	5.71	43	134808	0.391 ppbv #	91
26) Hexane	5.70	57	61809	0.364 ppbv #	73
27) Carbon Disulfide	4.57	76	61973m	0.412 ppbv	
28) Methyl tert-Butyl Ether	5.06	73	71719m	0.508 ppbv	
29) Chloroform	5.77	83	112821	0.465 ppbv	87
30) Cyclohexane	7.15	84	61152m	0.425 ppbv	
31) cis-1,2-Dichloroethene	5.57	61	51817	0.337 ppbv #	87
32) 1,1,1-Trichloroethane	6.52	97	99762m	0.434 ppbv	
34) 2-Butanone	5.28	43	60232m	0.354 ppbv	
35) Carbon Tetrachloride	7.03	117	103211m	0.431 ppbv	
36) Benzene	6.91	78	122941	0.341 ppbv #	91
37) 1,2-Dichloroethane	6.32	62	70197m	0.414 ppbv	
38) Trichloroethene	7.85	130	51332m	0.361 ppbv	
39) 1,2-Dichloropropane	7.63	63	54147m	0.400 ppbv	
40) 1,4-Dioxane	7.90	88	13090m	0.386 ppbv	
41) Tetrahydrofuran	6.10	42	23102m	0.277 ppbv	
42) Bromodichloromethane	7.81	83	92672	0.372 ppbv	90
43) Methyl Methacrylate	8.04	69	30093m	0.256 ppbv	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL102521\
 Data File : VL037901.D
 Acq On : 25 Oct 2021 19:55
 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

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

Quant Time: Oct 27 12:10:08 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)
44) 2,2,4-Trimethylpentane	7.89	57	206112	0.341	ppbv	# 90
45) t-1,3-Dichloropropene	9.30	75	20601m	0.254	ppbv	
46) cis-1,3-Dichloropropene	8.72	75	31991m	0.285	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	59054m	0.401	ppbv	
48) Dibromochloromethane	10.32	129	71095m	0.339	ppbv	
49) Bromoform	13.06	173	52248m	0.325	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	62791m	0.283	ppbv	
51) 2-Hexanone	10.18	43	25162m	0.254	ppbv	
52) Tetrachloroethene	11.24	164	47181m	0.337	ppbv	
53) Toluene	9.82	91	103002m	0.258	ppbv	
54) 1,2-Dibromoethane	10.63	107	66195m	0.333	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.14	131	66092	0.449	ppbv	# 1
57) Chlorobenzene	12.16	112	128333	0.440	ppbv	# 89
58) Ethyl Benzene	12.73	91	128475	0.269	ppbv	98
59) m/p-Xylene	13.02	91	275408m	0.671	ppbv	
60) o-Xylene	13.70	91	129000m	0.328	ppbv	
61) Styrene	13.54	104	38412m	0.202	ppbv	
62) Isopropylbenzene	14.68	105	196253	0.358	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	129349	0.426	ppbv	95
64) n-propylbenzene	15.57	120	46405m	0.339	ppbv	
65) tert-Butylbenzene	16.76	119	172719m	0.358	ppbv	
66) Benzyl Chloride	17.00	91	6839m	0.287	ppbv	
67) sec-Butylbenzene	17.32	105	237128m	0.359	ppbv	
69) p-Isopropyltoluene	17.67	119	169565m	0.318	ppbv	
70) n-Butylbenzene	18.57	91	138585	0.273	ppbv	98
71) 2-Chlorotoluene	15.47	91	125505	0.324	ppbv	99
72) 4-Ethyltoluene	15.86	105	120272	0.269	ppbv	# 89
73) 1,3,5-Trimethylbenzene	16.01	105	127274	0.314	ppbv	91
74) 1,2,4-Trimethylbenzene	16.77	105	162460m	0.382	ppbv	
75) 1,3-Dichlorobenzene	17.01	146	108352m	0.411	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	98951m	0.393	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	90953	0.359	ppbv	91
78) Hexachloro-1,3-Butadiene	23.39	225	92833	0.449	ppbv	95
79) Naphthalene	22.22	128	52096m	0.200	ppbv	
80) Naphthalene,2-methyl-	25.00	142	3690	0.053	ppbv	# 72
81) 1,2,4-Trichlorobenzene	21.94	180	46945m	0.281	ppbv	

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

