

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030121\
 Data File : VL036416.D
 Acq On : 1 Mar 2021 15:53
 Operator : SY/AP
 Sample : M1458-14 0.5 LOQ
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2021

Manual Integrations
 APPROVED

MMDadoda
 3/2/2021 3:30:13 PM

Quant Time: Mar 02 03:20:36 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 16:04:02 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1692048	10.00	ppbv	0.04
33) 1,4-Difluorobenzene	7.20	114	3818497	10.00	ppbv	0.04
55) Chlorobenzene-d5	12.11	117	3390429	10.00	ppbv	0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2734404	9.80	ppbv	0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.06	85	155990	0.618 ppbv	94
3) Chlorodifluoromethane	3.00	51	117293	0.558 ppbv	100
4) Chloromethane	3.16	50	54502	0.537 ppbv	97
5) Vinyl Chloride	3.27	62	44123	0.467 ppbv	95
6) Bromomethane	3.48	94	31241m	0.556 ppbv	
7) Chloroethane	3.57	64	19726	0.587 ppbv #	86
8) Dichlorotetrafluoroethane	3.20	85	131101	0.571 ppbv	96
9) Propene	3.02	41	47958m	0.612 ppbv	
10) Heptane	8.15	43	100614	0.436 ppbv	94
11) Trichlorofluoromethane	3.97	101	140094	0.567 ppbv	86
12) 1,1,2-Trichlorotrifluoroet	4.50	101	86931	0.568 ppbv	100
13) Ethanol	3.64	45	21044m	1.429 ppbv	
14) Bromoethene	3.76	108	26892	0.419 ppbv #	70
15) Acetone	3.88	43	131359m	0.635 ppbv	
16) 1,3-Butadiene	3.35	39	57072m	0.577 ppbv	
17) tert-Butyl alcohol	4.32	59	68859	0.429 ppbv #	91
18) 1,1-Dichloroethene	4.31	96	33137	0.476 ppbv	81
19) Isopropyl Alcohol	4.00	45	62783m	0.548 ppbv	
20) Methylene Chloride	4.36	84	41335m	0.619 ppbv	
21) Allyl Chloride	4.43	41	49543	0.430 ppbv	87
22) trans-1,2-Dichloroethene	4.90	96	35296m	0.558 ppbv	
23) Vinyl Acetate	5.10	43	102610	0.422 ppbv #	93
24) 1,1-Dichloroethane	5.02	63	100209	0.557 ppbv	96
25) Ethyl Acetate	5.71	43	184340	0.462 ppbv #	96
26) Hexane	5.71	57	72539	0.442 ppbv #	76
27) Carbon Disulfide	4.57	76	70521	0.468 ppbv	94
28) Methyl tert-Butyl Ether	5.07	73	96441	0.450 ppbv	96
29) Chloroform	5.77	83	146177m	0.553 ppbv	
30) Cyclohexane	7.16	84	70659m	0.518 ppbv	
31) cis-1,2-Dichloroethene	5.57	61	64586	0.398 ppbv	94
32) 1,1,1-Trichloroethane	6.54	97	129747m	0.525 ppbv	
34) 2-Butanone	5.28	43	117135m	0.462 ppbv	
35) Carbon Tetrachloride	7.04	117	127004	0.496 ppbv	92
36) Benzene	6.92	78	141683	0.437 ppbv #	90
37) 1,2-Dichloroethane	6.33	62	92792	0.463 ppbv #	97
38) Trichloroethene	7.86	130	55807m	0.480 ppbv	
39) 1,2-Dichloropropane	7.64	63	70550m	0.535 ppbv	
40) 1,4-Dioxane	7.90	88	24101m	0.528 ppbv	
41) Tetrahydrofuran	6.09	42	47598m	0.336 ppbv	
42) Bromodichloromethane	7.82	83	134181m	0.500 ppbv	
43) Methyl Methacrylate	8.04	69	51831m	0.379 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	286659	0.486	ppbv	93
45) t-1,3-Dichloropropene	9.31	75	38269	0.290	ppbv	90
46) cis-1,3-Dichloropropene	8.73	75	61934m	0.369	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	66271	0.491	ppbv	92
48) Dibromochloromethane	10.33	129	85730	0.426	ppbv	89
49) Bromoform	13.07	173	69430m	0.427	ppbv	
50) 4-Methyl-2-Pentanone	8.78	43	159729m	0.424	ppbv	
51) 2-Hexanone	10.19	43	106163m	0.371	ppbv	
52) Tetrachloroethene	11.25	164	52466m	0.442	ppbv	
53) Toluene	9.83	91	133820m	0.381	ppbv	
54) 1,2-Dibromoethane	10.64	107	84014	0.431	ppbv	81
56) 1,1,1,2-Tetrachloroethane	12.15	131	87779m	0.563	ppbv	
57) Chlorobenzene	12.17	112	151576m	0.579	ppbv	
58) Ethyl Benzene	12.74	91	196277	0.423	ppbv	96
59) m/p-Xylene	13.02	91	375549m	0.921	ppbv	
60) o-Xylene	13.72	91	198526m	0.509	ppbv	
61) Styrene	13.56	104	81880m	0.339	ppbv	
62) Isopropylbenzene	14.70	105	297636	0.509	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.70	83	167016m	0.543	ppbv	
64) n-propylbenzene	15.59	120	71222m	0.495	ppbv	
65) tert-Butylbenzene	16.78	119	236564	0.473	ppbv	93
66) Benzyl Chloride	17.03	91	54952m	0.404	ppbv	
67) sec-Butylbenzene	17.33	105	351284	0.487	ppbv	98
69) p-Isopropyltoluene	17.68	119	245559	0.441	ppbv	95
70) n-Butylbenzene	18.58	91	258985m	0.433	ppbv	
71) 2-Chlorotoluene	15.48	91	212821m	0.475	ppbv	
72) 4-Ethyltoluene	15.86	105	188761m	0.435	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	163770	0.389	ppbv	93
74) 1,2,4-Trimethylbenzene	16.79	105	220564m	0.514	ppbv	
75) 1,3-Dichlorobenzene	17.02	146	130756m	0.561	ppbv	
76) 1,4-Dichlorobenzene	17.17	146	120529m	0.498	ppbv	
77) 1,2-Dichlorobenzene	17.85	146	114542m	0.495	ppbv	

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

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