

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050721\
 Data File : VL036919.D
 Acq On : 7 May 2021 14:53
 Operator : SY/AP
 Sample : M2262-15 0.45
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 5/10/2021 3:34:37 PM

Quant Time: May 08 18:59:09 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1256172	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	2973605	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	2596540	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2173554	10.43	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	146803	0.742	ppbv	99
3) Chlorodifluoromethane	3.00	51	146677	0.641	ppbv	98
4) Chloromethane	3.15	50	47888m	0.637	ppbv	
5) Vinyl Chloride	3.27	62	38262	0.504	ppbv #	85
6) Bromomethane	3.48	94	26589m	0.652	ppbv	
7) Chloroethane	3.57	64	13854	0.556	ppbv #	82
8) Dichlorotetrafluoroethane	3.20	85	117822	0.653	ppbv	99
9) Propene	3.02	41	30348	0.435	ppbv	88
10) Heptane	8.13	43	59276	0.338	ppbv	95
11) Trichlorofluoromethane	3.96	101	115256m	0.653	ppbv	
12) 1,1,2-Trichlorotrifluoroet	4.49	101	68801	0.582	ppbv	94
13) Ethanol	3.64	45	5398m	0.607	ppbv	
14) Bromoethene	3.75	108	23448	0.486	ppbv #	86
15) Acetone	3.88	43	79600m	0.672	ppbv	
16) 1,3-Butadiene	3.34	39	41238m	0.545	ppbv	
17) tert-Butyl alcohol	4.36	59	54476m	0.567	ppbv	
18) 1,1-Dichloroethene	4.29	96	30063m	0.585	ppbv	
19) Isopropyl Alcohol	4.02	45	35211m	0.600	ppbv	
20) Methylene Chloride	4.35	84	36234	0.640	ppbv #	90
21) Allyl Chloride	4.43	41	42549	0.484	ppbv	87
22) trans-1,2-Dichloroethene	4.90	96	28742m	0.558	ppbv	
23) Vinyl Acetate	5.11	43	72418m	0.450	ppbv	
24) 1,1-Dichloroethane	5.02	63	75091m	0.657	ppbv	
25) Ethyl Acetate	5.70	43	137789m	0.476	ppbv	
26) Hexane	5.71	57	61467m	0.454	ppbv	
27) Carbon Disulfide	4.56	76	54721	0.466	ppbv #	71
28) Methyl tert-Butyl Ether	5.07	73	62136	0.518	ppbv	92
29) Chloroform	5.76	83	124427	0.590	ppbv	92
30) Cyclohexane	7.14	84	60106m	0.560	ppbv	
31) cis-1,2-Dichloroethene	5.56	61	45569	0.375	ppbv #	88
32) 1,1,1-Trichloroethane	6.52	97	121125	0.565	ppbv	96
34) 2-Butanone	5.28	43	45646	0.350	ppbv #	78
35) Carbon Tetrachloride	7.03	117	125301	0.621	ppbv	91
36) Benzene	6.90	78	103862m	0.415	ppbv	
37) 1,2-Dichloroethane	6.32	62	71194	0.502	ppbv #	93
38) Trichloroethene	7.85	130	44707m	0.501	ppbv	
39) 1,2-Dichloropropane	7.62	63	44289	0.441	ppbv	93
40) 1,4-Dioxane	7.90	88	14301m	0.590	ppbv	
41) Tetrahydrofuran	6.09	42	18095m	0.318	ppbv	
42) Bromodichloromethane	7.80	83	112944	0.573	ppbv	98
43) Methyl Methacrylate	8.04	69	25600m	0.313	ppbv	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	175215	0.408	ppbv	# 78
45) t-1,3-Dichloropropene	9.29	75	31241m	0.354	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	40361m	0.357	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	56668m	0.545	ppbv	
48) Dibromochloromethane	10.31	129	82133m	0.533	ppbv	
49) Bromoform	13.05	173	64041m	0.521	ppbv	
50) 4-Methyl-2-Pentanone	8.79	43	63702m	0.358	ppbv	
51) 2-Hexanone	10.18	43	24682m	0.278	ppbv	
52) Tetrachloroethene	11.23	164	39367m	0.461	ppbv	
53) Toluene	9.82	91	82710	0.315	ppbv	96
54) 1,2-Dibromoethane	10.62	107	68534m	0.467	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.13	131	72951	0.670	ppbv	# 1
57) Chlorobenzene	12.15	112	116579	0.576	ppbv	97
58) Ethyl Benzene	12.72	91	113300m	0.344	ppbv	
59) m/p-Xylene	13.01	91	234870m	0.798	ppbv	
60) o-Xylene	13.70	91	115702	0.407	ppbv	99
61) Styrene	13.53	104	35272m	0.264	ppbv	
62) Isopropylbenzene	14.68	105	164284	0.424	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.69	83	141833m	0.622	ppbv	
64) n-propylbenzene	15.57	120	36395m	0.377	ppbv	
65) tert-Butylbenzene	16.76	119	147913m	0.432	ppbv	
66) Benzyl Chloride	17.00	91	17425m	0.521	ppbv	
67) sec-Butylbenzene	17.31	105	205533	0.432	ppbv	97
69) p-Isopropyltoluene	17.67	119	136142m	0.357	ppbv	
70) n-Butylbenzene	18.56	91	147770m	0.385	ppbv	
71) 2-Chlorotoluene	15.46	91	107218	0.374	ppbv	98
72) 4-Ethyltoluene	15.84	105	107283m	0.351	ppbv	
73) 1,3,5-Trimethylbenzene	16.01	105	118258m	0.399	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	129296	0.411	ppbv	94
75) 1,3-Dichlorobenzene	17.01	146	99820m	0.537	ppbv	
76) 1,4-Dichlorobenzene	17.15	146	90511m	0.497	ppbv	
77) 1,2-Dichlorobenzene	17.83	146	76265	0.420	ppbv	79
78) Hexachloro-1,3-Butadiene	23.38	225	93717m	0.607	ppbv	
79) Naphthalene	22.21	128	37826m	0.215	ppbv	
81) 1,2,4-Trichlorobenzene	21.95	180	36083m	0.317	ppbv	

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

