

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037611.D
 Acq On : 16 Sep 2021 9:24
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/20/2021 5:26:31 PM

Quant Time: Sep 16 11:03:36 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 1
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1630437	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4840967	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4281564	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3062943	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	163504	0.625 ppbv	93
3) Chlorodifluoromethane	2.98	51	164835	0.528 ppbv	99
4) Chloromethane	3.13	50	60447	0.542 ppbv	91
5) Vinyl Chloride	3.25	62	61526m	0.538 ppbv	
6) Bromomethane	3.46	94	31287m	0.500 ppbv	
7) Chloroethane	3.54	64	22572m	0.579 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	128330	0.475 ppbv	92
9) Propene	3.00	41	58103	0.520 ppbv	87
10) Heptane	8.10	43	111077	0.432 ppbv	92
11) Trichlorofluoromethane	3.94	101	126156	0.514 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.47	101	93753m	0.520 ppbv	
13) Ethanol	3.61	45	5924m	0.545 ppbv	
14) Bromoethene	3.73	108	40799m	0.499 ppbv	
15) Acetone	3.85	43	102444m	0.617 ppbv	
16) 1,3-Butadiene	3.32	39	56480m	0.531 ppbv	
17) tert-Butyl alcohol	4.29	59	74582m	0.492 ppbv	
18) 1,1-Dichloroethene	4.28	96	44467m	0.543 ppbv	
19) Isopropyl Alcohol	3.99	45	50695m	0.533 ppbv	
20) Methylene Chloride	4.33	84	46662m	0.562 ppbv	
21) Allyl Chloride	4.40	41	63005m	0.467 ppbv	
22) trans-1,2-Dichloroethene	4.87	96	43566m	0.533 ppbv	
23) Vinyl Acetate	5.06	43	119912m	0.490 ppbv	
24) 1,1-Dichloroethane	4.99	63	86259m	0.486 ppbv	
25) Ethyl Acetate	5.67	43	196452	0.466 ppbv	96
26) Hexane	5.67	57	92739	0.450 ppbv	91
27) Carbon Disulfide	4.54	76	76778m	0.418 ppbv	
28) Methyl tert-Butyl Ether	5.03	73	81786m	0.413 ppbv	
29) Chloroform	5.74	83	143626	0.492 ppbv	99
30) Cyclohexane	7.11	84	90906m	0.530 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	85226m	0.457 ppbv	
32) 1,1,1-Trichloroethane	6.49	97	131504	0.459 ppbv	97
34) 2-Butanone	5.24	43	107124m	0.542 ppbv	
35) Carbon Tetrachloride	7.00	117	131406m	0.459 ppbv	
36) Benzene	6.88	78	193975m	0.477 ppbv	
37) 1,2-Dichloroethane	6.29	62	104792m	0.520 ppbv	
38) Trichloroethene	7.82	130	83704m	0.501 ppbv	
39) 1,2-Dichloropropane	7.60	63	72458	0.463 ppbv	97
40) 1,4-Dioxane	7.86	88	16224m	0.423 ppbv	
41) Tetrahydrofuran	6.06	42	42845m	0.450 ppbv	
42) Bromodichloromethane	7.78	83	138344m	0.469 ppbv	
43) Methyl Methacrylate	8.00	69	57129m	0.403 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	320347	0.468	ppbv	96
45) t-1,3-Dichloropropene	9.27	75	37294m	0.349	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	54897m	0.369	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	85807m	0.508	ppbv	
48) Dibromochloromethane	10.29	129	99824m	0.411	ppbv	
49) Bromoform	13.02	173	71286m	0.372	ppbv	
50) 4-Methyl-2-Pentanone	8.75	43	112487m	0.436	ppbv	
51) 2-Hexanone	10.14	43	44195m	0.373	ppbv	
52) Tetrachloroethene	11.20	164	73543m	0.441	ppbv	
53) Toluene	9.79	91	192609m	0.415	ppbv	
54) 1,2-Dibromoethane	10.59	107	113360m	0.481	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.11	131	83108	0.466	ppbv #	1
57) Chlorobenzene	12.12	112	183934m	0.518	ppbv	
58) Ethyl Benzene	12.69	91	243497	0.410	ppbv	95
59) m/p-Xylene	12.98	91	466238m	0.905	ppbv	
60) o-Xylene	13.67	91	223931m	0.466	ppbv	
61) Styrene	13.51	104	86080m	0.345	ppbv	
62) Isopropylbenzene	14.64	105	318563	0.470	ppbv	97
63) 1,1,2,2-Tetrachloroethane	13.65	83	182774m	0.512	ppbv	
64) n-propylbenzene	15.54	120	73612	0.426	ppbv	81
65) tert-Butylbenzene	16.72	119	290391m	0.470	ppbv	
66) Benzyl Chloride	16.96	91	13817m	0.494	ppbv	
67) sec-Butylbenzene	17.27	105	380784	0.441	ppbv	100
69) p-Isopropyltoluene	17.63	119	296166m	0.421	ppbv	
70) n-Butylbenzene	18.53	91	274796	0.409	ppbv	98
71) 2-Chlorotoluene	15.44	91	209288	0.421	ppbv	100
72) 4-Ethyltoluene	15.82	105	242358m	0.424	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	241180m	0.453	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	261383m	0.462	ppbv	
75) 1,3-Dichlorobenzene	16.98	146	168483m	0.495	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	161238m	0.470	ppbv	
77) 1,2-Dichlorobenzene	17.79	146	154886m	0.462	ppbv	
78) Hexachloro-1,3-Butadiene	23.35	225	145470	0.522	ppbv	99
79) Naphthalene	22.17	128	122707m	0.324	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	21148m	0.201	ppbv	
81) 1,2,4-Trichlorobenzene	21.90	180	87121m	0.367	ppbv	

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

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