

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038048.D
 Acq On : 18 Nov 2021 10:04
 Operator : SY/AP
 Sample : VSTDICC001
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 11/25/2021
 Supervised By : Mahesh Dadoda 11/29/2021

Quant Time: Nov 18 10:46:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Thu Nov 18 10:39:10 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	930777	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2741755	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2480335	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1800688	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.05	85	180379	0.953	ppbv	96
3) Chlorodifluoromethane	3.00	51	212482	0.878	ppbv	98
4) Chloromethane	3.15	50	68615	0.797	ppbv	97
5) Vinyl Chloride	3.26	62	67444	0.816	ppbv	97
6) Bromomethane	3.48	94	35125	0.795	ppbv	97
7) Chloroethane	3.56	64	23578m	0.811	ppbv	
8) Dichlorotetrafluoroethane	3.19	85	174128	0.888	ppbv	99
9) Propene	3.02	41	73642	0.807	ppbv	91
10) Heptane	8.12	43	188367	0.839	ppbv	98
11) Trichlorofluoromethane	3.95	101	151269	0.809	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	109792	0.757	ppbv	99
13) Ethanol	3.62	45	8436m	1.043	ppbv	
14) Bromoethene	3.75	108	47435	0.782	ppbv	99
15) Acetone	3.87	43	92374m	0.844	ppbv	
16) 1,3-Butadiene	3.33	39	66182	0.817	ppbv	99
17) tert-Butyl alcohol	4.30	59	108280m	0.737	ppbv	
18) 1,1-Dichloroethene	4.29	96	51717m	0.773	ppbv	
19) Isopropyl Alcohol	3.99	45	67529m	0.843	ppbv	
20) Methylene Chloride	4.34	84	50680m	0.790	ppbv	
21) Allyl Chloride	4.41	41	80961m	0.739	ppbv	
22) trans-1,2-Dichloroethene	4.89	96	51072m	0.756	ppbv	
23) Vinyl Acetate	5.08	43	129631m	0.715	ppbv	
24) 1,1-Dichloroethane	5.01	63	103246	0.730	ppbv	# 97
25) Ethyl Acetate	5.68	43	286853	1.114	ppbv	99
26) Hexane	5.69	57	143691	1.111	ppbv	97
27) Carbon Disulfide	4.56	76	121193m	0.715	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	113186	0.682	ppbv	97
29) Chloroform	5.75	83	203603	1.045	ppbv	99
30) Cyclohexane	7.13	84	127558m	0.876	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	128316	1.198	ppbv	96
32) 1,1,1-Trichloroethane	6.51	97	199195	0.806	ppbv	97
34) 2-Butanone	5.26	43	111063	1.228	ppbv	95
35) Carbon Tetrachloride	7.02	117	202519	1.069	ppbv	98
36) Benzene	6.89	78	298950	1.146	ppbv	97
37) 1,2-Dichloroethane	6.30	62	138153	1.141	ppbv	100
38) Trichloroethene	7.83	130	113817m	1.074	ppbv	
39) 1,2-Dichloropropane	7.61	63	109340	1.085	ppbv	98
40) 1,4-Dioxane	7.86	88	33026m	1.270	ppbv	
41) Tetrahydrofuran	6.07	42	72405m	1.116	ppbv	
42) Bromodichloromethane	7.79	83	219236	1.150	ppbv	98
43) Methyl Methacrylate	8.01	69	100438m	1.080	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	519228	1.159	ppbv	99
45) t-1,3-Dichloropropene	9.27	75	71015m	0.922	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	102510m	1.018	ppbv	
47) 1,1,2-Trichloroethane	9.47	97	119493	1.167	ppbv	96
48) Dibromochloromethane	10.30	129	175818	1.056	ppbv	98
49) Bromoform	13.03	173	129486	1.008	ppbv	97
50) 4-Methyl-2-Pentanone	8.75	43	178385m	1.094	ppbv	
51) 2-Hexanone	10.15	43	83356m	1.095	ppbv	
52) Tetrachloroethene	11.22	164	105504m	1.072	ppbv	
53) Toluene	9.80	91	345174	1.132	ppbv	99
54) 1,2-Dibromoethane	10.60	107	170575m	1.189	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	122810	1.134	ppbv #	1
57) Chlorobenzene	12.14	112	250123	1.230	ppbv	98
58) Ethyl Benzene	12.70	91	453050	1.203	ppbv	99
59) m/p-Xylene	12.99	91	790155m	2.524	ppbv	
60) o-Xylene	13.68	91	363526	1.251	ppbv	97
61) Styrene	13.52	104	191231m	1.180	ppbv	
62) Isopropylbenzene	14.66	105	515035	1.226	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.67	83	264184m	1.216	ppbv	
64) n-propylbenzene	15.55	120	123945	1.157	ppbv	80
65) tert-Butylbenzene	16.73	119	469134	1.273	ppbv	99
66) Benzyl Chloride	16.98	91	18946m	0.736	ppbv	
67) sec-Butylbenzene	17.29	105	636395	1.250	ppbv	100
69) p-Isopropyltoluene	17.64	119	496723	1.210	ppbv	99
70) n-Butylbenzene	18.54	91	478177	1.271	ppbv	99
71) 2-Chlorotoluene	15.45	91	381639	1.269	ppbv	99
72) 4-Ethyltoluene	15.83	105	411082	1.187	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	372654	1.176	ppbv	100
74) 1,2,4-Trimethylbenzene	16.75	105	405559	1.271	ppbv #	90
75) 1,3-Dichlorobenzene	16.99	146	216515m	1.230	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	221223m	1.226	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	205061	1.214	ppbv	98
78) Hexachloro-1,3-Butadiene	23.36	225	140568m	1.283	ppbv	
79) Naphthalene	22.19	128	199521m	1.140	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	35519m	1.075	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	117829m	1.190	ppbv	

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

