

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060722\
 Data File : VL039219.D
 Acq On : 7 Jun 2022 21:35
 Operator : SY/AP
 Sample : N3214-13 0.4 LOD
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA L
 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2022

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/10/2022
 Supervised By : Mahesh Dadoda 06/10/2022

Quant Time: Jun 08 06:33:17 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122A
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument:
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	704627	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1722887	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1493016	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1313153	10.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.05	85	74634	0.603 ppbv	97
3) Chlorodifluoromethane	2.99	51	57248	0.639 ppbv	98
4) Chloromethane	3.14	50	28914	0.628 ppbv	94
5) Vinyl Chloride	3.26	62	25686	0.597 ppbv	91
6) Bromomethane	3.47	94	13943m	0.658 ppbv	
7) Chloroethane	3.56	64	11106m	0.740 ppbv	
8) Dichlorotetrafluoroethane	3.19	85	70370	0.622 ppbv	94
9) Propene	3.02	41	21235m	0.543 ppbv	
10) Heptane	8.12	43	44408	0.487 ppbv	96
11) Trichlorofluoromethane	3.95	101	81452	0.727 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	58370	0.788 ppbv	94
13) Ethanol	3.61	45	1602	0.751 ppbv #	100
14) Bromoethene	3.74	108	19951	0.599 ppbv #	86
15) Acetone	3.86	43	58361m	0.795 ppbv	
16) 1,3-Butadiene	3.33	39	26655m	0.676 ppbv	
17) tert-Butyl alcohol	4.30	59	42693m	0.750 ppbv	
18) 1,1-Dichloroethene	4.29	96	23742	0.714 ppbv	87
19) Isopropyl Alcohol	3.98	45	23360m	0.679 ppbv	
20) Methylene Chloride	4.35	84	29854m	0.965 ppbv	
21) Allyl Chloride	4.41	41	31253m	0.631 ppbv	
22) trans-1,2-Dichloroethene	4.89	96	24803m	0.776 ppbv	
23) Vinyl Acetate	5.08	43	40173m	0.662 ppbv	
24) 1,1-Dichloroethane	5.01	63	50775m	0.610 ppbv	
25) Ethyl Acetate	5.68	43	83832	0.507 ppbv #	96
26) Hexane	5.69	57	38508m	0.530 ppbv	
27) Carbon Disulfide	4.55	76	39101m	0.519 ppbv	
28) Methyl tert-Butyl Ether	5.05	73	49839m	0.621 ppbv	
29) Chloroform	5.75	83	72373	0.592 ppbv	95
30) Cyclohexane	7.13	84	29036m	0.475 ppbv	
31) cis-1,2-Dichloroethene	5.55	61	38595	0.521 ppbv #	84
32) 1,1,1-Trichloroethane	6.51	97	71489	0.597 ppbv	96
34) 2-Butanone	5.25	43	56152m	0.600 ppbv	
35) Carbon Tetrachloride	7.01	117	71455m	0.568 ppbv	
36) Benzene	6.89	78	72267	0.517 ppbv	95
37) 1,2-Dichloroethane	6.30	62	56815	0.617 ppbv	100
38) Trichloroethene	7.83	130	35907m	0.559 ppbv	
39) 1,2-Dichloropropane	7.61	63	28936m	0.520 ppbv	
40) 1,4-Dioxane	7.87	88	12260m	0.669 ppbv	
41) Tetrahydrofuran	6.07	42	27302m	0.485 ppbv	
42) Bromodichloromethane	7.79	83	66232	0.518 ppbv	97
43) Methyl Methacrylate	8.02	69	28817m	0.529 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.86	57	123689	0.505	ppbv	# 91
45) t-1,3-Dichloropropene	9.28	75	22566m	0.398	ppbv	
46) cis-1,3-Dichloropropene	8.70	75	29465m	0.393	ppbv	
47) 1,1,2-Trichloroethane	9.48	97	33059m	0.570	ppbv	
48) Dibromochloromethane	10.30	129	45753	0.441	ppbv	99
49) Bromoform	13.04	173	33019m	0.382	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	70596m	0.504	ppbv	
51) 2-Hexanone	10.16	43	46728m	0.429	ppbv	
52) Tetrachloroethene	11.22	164	27499m	0.504	ppbv	
53) Toluene	9.81	91	74952	0.465	ppbv	100
54) 1,2-Dibromoethane	10.62	107	42857m	0.549	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.12	131	40276m	0.570	ppbv	
57) Chlorobenzene	12.14	112	64539m	0.575	ppbv	
58) Ethyl Benzene	12.71	91	103755m	0.505	ppbv	
59) m/p-Xylene	12.99	91	190299m	1.051	ppbv	
60) o-Xylene	13.69	91	93779m	0.551	ppbv	
61) Styrene	13.53	104	39068m	0.429	ppbv	
62) Isopropylbenzene	14.66	105	128706	0.509	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	50672m	0.530	ppbv	
64) n-propylbenzene	15.55	120	30608m	0.492	ppbv	
65) tert-Butylbenzene	16.74	119	118256m	0.511	ppbv	
66) Benzyl Chloride	16.99	91	13964m	0.464	ppbv	
67) sec-Butylbenzene	17.29	105	164994	0.523	ppbv	98
69) p-Isopropyltoluene	17.65	119	131486	0.494	ppbv	# 93
70) n-Butylbenzene	18.54	91	138130m	0.505	ppbv	
71) 2-Chlorotoluene	15.46	91	102336m	0.531	ppbv	
72) 4-Ethyltoluene	15.84	105	92163	0.462	ppbv	# 94
73) 1,3,5-Trimethylbenzene	16.00	105	91743m	0.510	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	105816m	0.527	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	59870m	0.527	ppbv	
76) 1,4-Dichlorobenzene	17.13	146	59049m	0.521	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	57794m	0.505	ppbv	
78) Hexachloro-1,3-Butadiene	23.37	225	61438m	0.587	ppbv	
79) Naphthalene	22.19	128	63001m	0.408	ppbv	
80) Naphthalene, 2-methyl-	24.97	142	11302m	0.197	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	40434m	0.413	ppbv	

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

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