

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021020\
 Data File : VU036712.D
 Acq On : 10 Feb 2020 16:18
 Operator : JC/MD
 Sample : MDL07
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL07

Manual Integrations
 APPROVED

MMDadoda
 2/12/2020 3:10:14 PM

Quant Time: Feb 11 04:03:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 03:31:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	261630	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	247282	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.83	152	103750	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	68240	39.11	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.22%
7) Chloroethane-d5	1.93	69	70274	43.44	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	86.88%
11) 1,1-Dichloroethene-d2	2.59	63	103598	31.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	62.90%
21) 2-Butanone-d5	4.68	46	147286	98.94	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.94%
24) Chloroform-d	5.11	84	142542	45.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.28%
26) 1,2-Dichloroethane-d4	5.75	65	102925	47.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.30%
32) Benzene-d6	5.77	84	300536	46.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.46%
36) 1,2-Dichloropropane-d6	6.73	67	104233	48.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.60%
41) Toluene-d8	7.93	98	270617	45.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	90.92%
43) trans-1,3-Dichloropropene-	8.21	79	46300	44.81	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.62%
47) 2-Hexanone-d5	8.67	63	120560	97.88	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	97.88%
56) 1,1,2,2-Tetrachloroethane-	10.78	84	151628	47.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.36%
66) 1,2-Dichlorobenzene-d4	12.21	152	92174	48.90	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	4214	2.331 ug/L	94
3) Chloromethane	1.54	50	5375	2.509 ug/L	98
5) Vinyl chloride	1.62	62	6358	2.757 ug/L #	61
6) Bromomethane	1.87	94	3332	2.304 ug/L	97
8) Chloroethane	1.95	64	4200	2.869 ug/L	84
9) Trichlorofluoromethane	2.16	101	6930	2.529 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	4713	2.871 ug/L	92
12) 1,1-Dichloroethene	2.61	96	4832	3.023 ug/L #	1
13) Acetone	2.66	43	10506	6.644 ug/L	94
14) Carbon disulfide	2.82	76	12003	2.513 ug/L	96
15) Methyl Acetate	2.99	43	5521	2.415 ug/L	95
16) Methylene chloride	3.08	84	6036	3.060 ug/L	99
17) trans-1,2-Dichloroethene	3.39	96	4588	2.698 ug/L	92
18) Methyl tert-butyl Ether	3.41	73	15203	2.576 ug/L	98
19) 1,1-Dichloroethane	3.92	63	8923	2.634 ug/L	93
20) cis-1,2-Dichloroethene	4.72	96	5230	2.699 ug/L	93
22) 2-Butanone	4.76	43	10683	5.692 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	2341	2.578	ug/L	92
25) Chloroform	5.13	83	14650	4.446	ug/L	99
27) 1,2-Dichloroethane	5.84	62	7582	2.736	ug/L #	93
29) Cyclohexane	5.43	56	7669	2.414	ug/L	95
30) 1,1,1-Trichloroethane	5.36	97	6820	2.596	ug/L	98
31) Carbon tetrachloride	5.57	117	5264m	2.475	ug/L	
33) Benzene	5.82	78	19878	2.658	ug/L	100
34) Trichloroethene	6.58	95	4762	2.575	ug/L	95
35) Methylcyclohexane	6.80	83	8107	2.489	ug/L	97
37) 1,2-Dichloropropane	6.83	63	5288	2.622	ug/L #	92
38) Bromodichloromethane	7.14	83	5867	2.394	ug/L #	96
39) cis-1,3-Dichloropropene	7.64	75	8021	2.489	ug/L	98
40) 4-Methyl-2-pentanone	7.83	43	16236	5.095	ug/L	99
42) Toluene	8.00	91	22425	2.775	ug/L	97
44) trans-1,3-Dichloropropene	8.24	75	7466	2.652	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	4773	2.594	ug/L	98
46) Tetrachloroethene	8.58	164	3444	2.654	ug/L	91
48) 2-Hexanone	8.72	43	16122	6.202	ug/L	93
49) Dibromochloromethane	8.84	129	4545	2.526	ug/L	94
50) 1,2-Dibromoethane	8.95	107	4925	2.548	ug/L #	94
51) Chlorobenzene	9.47	112	12851	2.641	ug/L	99
52) Ethylbenzene	9.60	91	22161	2.495	ug/L	96
53) m,p-Xylene	9.72	106	8352	2.549	ug/L	90
54) o-xylene	10.13	106	8037	2.476	ug/L	92
55) Styrene	10.14	104	11958	2.211	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.81	83	9171	2.766	ug/L #	95
59) Bromoform	10.32	173	2679	2.337	ug/L #	93
60) 1,2,3-Trichloropropane	10.85	75	7339	3.007	ug/L	98
61) Isopropylbenzene	10.51	105	20211	2.616	ug/L	98
62) 1,3,5-Trimethylbenzene	11.11	105	16581	2.503	ug/L	100
63) 1,2,4-Trimethylbenzene	11.49	105	16468	2.490	ug/L	98
64) 1,3-Dichlorobenzene	11.77	146	8389	2.582	ug/L	95
65) 1,4-Dichlorobenzene	11.86	146	8903	2.722	ug/L	95
67) 1,2-Dichlorobenzene	12.24	146	9273	2.819	ug/L	94
68) 1,2-Dibromo-3-chloropropan	13.01	75	1618	2.320	ug/L	96
69) 1,3,5-Trichlorobenzene	13.24	180	4934	2.190	ug/L	95
70) 1,2,4-trichlorobenzene	13.86	180	3196	1.701	ug/L	95
71) Naphthalene	14.10	128	10027	1.514	ug/L	99
72) 1,2,3-Trichlorobenzene	14.35	180	3305	1.766	ug/L	98

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

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