

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000666.D
 Acq On : 13 Nov 2019 12:38
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:59:03 AM

Quant Time: Nov 14 08:01:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\SOM2YLM111219S.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 14 01:29:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.70	114	341502	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	310940	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	144167	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	113588	23.55	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	94.20%
7) Chloroethane-d5	2.77	69	98944	23.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.36%
10) 1,1-Dichloroethene-d2	3.85	63	157228	17.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.60%
20) 2-Butanone-d5	6.91	46	88492	44.47	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.94%
24) Chloroform-d	7.49	84	201830	22.52	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.08%
26) 1,2-Dichloroethane-d4	8.15	65	118918	22.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.56%
29) Benzene-d6	8.12	84	430412	23.84	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.36%
33) 1,2-Dichloropropane-d6	9.13	67	134659	23.79	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.16%
37) Toluene-d8	10.18	98	386628	22.92	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.68%
38) trans-1,3-Dichloropropene-	10.44	79	60446	22.89	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	91.56%
39) 2-Hexanone-d5	10.79	63	64845	42.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.80%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	115212	20.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.72%
61) 1,2-Dichlorobenzene-d4	13.72	152	133075	23.08	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.32%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.90	85	3108	0.689 ug/L	99
3) Chloromethane	2.11	50	3489	0.617 ug/L	99
5) Vinyl chloride	2.25	62	4226	0.749 ug/L #	36
6) Bromomethane	2.66	94	2101	0.681 ug/L	93
8) Chloroethane	2.80	64	2534m	0.716 ug/L	
9) Trichlorofluoromethane	3.13	101	5772	0.722 ug/L	90
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	2883m	0.636 ug/L	
12) 1,1-Dichloroethene	3.88	96	3938	0.889 ug/L #	1
13) Acetone	3.96	43	4501	3.091 ug/L	61
14) Carbon disulfide	4.21	76	7685	0.563 ug/L #	89
15) Methyl Acetate	4.49	43	1946m	0.583 ug/L	
16) Methylene chloride	4.73	84	13064	2.317 ug/L	91
17) Methyl tert-butyl Ether	5.24	73	8205m	0.609 ug/L	
18) trans-1,2-Dichloroethene	5.25	96	2953m	0.597 ug/L	
19) 1,1-Dichloroethane	6.02	63	5272m	0.606 ug/L	
21) 2-Butanone	7.00	43	5408	2.108 ug/L #	60
22) cis-1,2-Dichloroethene	6.99	96	2950m	0.539 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	7.34	128	1319m	0.552	ug/L	
25) Chloroform	7.52	83	11850m	1.263	ug/L	
27) 1,2-Dichloroethane	8.25	62	4157	0.663	ug/L	95
30) Cyclohexane	7.80	56	4785m	0.564	ug/L	
31) 1,1,1-Trichloroethane	7.72	97	4612	0.602	ug/L	95
32) Carbon tetrachloride	7.91	117	4063m	0.609	ug/L	
34) Benzene	8.17	78	11847	0.583	ug/L	100
35) Trichloroethene	8.94	95	3337m	0.626	ug/L	
36) Methylcyclohexane	9.18	83	4669	0.512	ug/L	92
40) 1,2-Dichloropropane	9.23	63	3418	0.663	ug/L	99
41) Bromodichloromethane	9.50	83	3677	0.555	ug/L	91
42) cis-1,3-Dichloropropene	9.93	75	4582	0.552	ug/L	88
43) 4-Methyl-2-pentanone	10.08	43	6896	1.400	ug/L	98
44) Toluene	10.25	91	13324	0.606	ug/L	99
45) trans-1,3-Dichloropropene	10.47	75	3608m	0.506	ug/L	
46) 1,1,2-Trichloroethane	10.65	97	2450	0.580	ug/L	93
47) Tetrachloroethene	10.72	164	2616	0.657	ug/L	87
49) 2-Hexanone	10.83	43	5589	1.456	ug/L #	92
50) Dibromochloromethane	10.99	129	2703	0.566	ug/L #	53
51) 1,2-Dibromoethane	11.09	107	2471	0.601	ug/L #	96
52) Chlorobenzene	11.52	112	9164	0.657	ug/L #	80
53) Ethylbenzene	11.59	91	13852	0.557	ug/L	88
54) m,p-Xylene	11.70	106	5833	0.620	ug/L	73
55) o-xylene	12.03	106	5067	0.549	ug/L	61
56) Styrene	12.05	104	7538	0.491	ug/L	95
57) Isopropylbenzene	12.33	105	13845	0.576	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	3345	0.634	ug/L #	89
59) 1,2,3-Trichloropropane	12.64	75	2398	0.559	ug/L	96
62) Bromoform	12.21	173	1385m	0.506	ug/L	
63) 1,3-Dichlorobenzene	13.36	146	5644	0.549	ug/L	94
64) 1,4-Dichlorobenzene	13.44	146	6774	0.659	ug/L #	91
65) 1,2-Dichlorobenzene	13.73	146	5936	0.623	ug/L #	78
66) 1,2-Dibromo-3-chloropropan	14.36	75	547m	0.605	ug/L	
67) 1,3,5-Trichlorobenzene	14.51	180	4584m	0.639	ug/L	
68) 1,2,4-trichlorobenzene	15.00	180	4067	0.635	ug/L	97
69) Naphthalene	15.24	128	9774	0.612	ug/L #	92
70) 1,2,3-Trichlorobenzene	15.42	180	3483	0.585	ug/L	98

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

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