

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY111319\
 Data File : VY000665.D
 Acq On : 13 Nov 2019 12:16
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA Y/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDADODA
 11/19/2019 11:58:58 AM

Quant Time: Nov 14 07:59:45 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	340302	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.49	117	314816	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.42	152	148452	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.24	65	102123	21.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.00%
7) Chloroethane-d5	2.77	69	95144	22.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.12%
10) 1,1-Dichloroethene-d2	3.86	63	144761	16.31	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	65.24%
20) 2-Butanone-d5	6.91	46	84371	42.55	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	85.10%
24) Chloroform-d	7.49	84	186954	20.94	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	83.76%
26) 1,2-Dichloroethane-d4	8.16	65	113715	21.96	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.84%
29) Benzene-d6	8.12	84	400734	21.92	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	87.68%
33) 1,2-Dichloropropane-d6	9.13	67	125321	21.87	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	87.48%
37) Toluene-d8	10.18	98	367556	21.52	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	86.08%
38) trans-1,3-Dichloropropene-	10.44	79	55724	20.85	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.40%
39) 2-Hexanone-d5	10.79	63	66081	42.67	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	85.34%
48) 1,1,2,2-Tetrachloroethane-	12.56	84	113361	20.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.36%
61) 1,2-Dichlorobenzene-d4	13.72	152	128689	21.68	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	86.72%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.91	85	3466	0.771 ug/L	97
3) Chloromethane	2.12	50	4279	0.759 ug/L #	81
5) Vinyl chloride	2.26	62	4368	0.776 ug/L #	51
6) Bromomethane	2.66	94	2245m	0.731 ug/L	
8) Chloroethane	2.80	64	2507	0.711 ug/L	90
9) Trichlorofluoromethane	3.13	101	5978	0.750 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	3.91	101	3843	0.850 ug/L #	60
12) 1,1-Dichloroethene	3.88	96	4516m	1.024 ug/L	
13) Acetone	3.97	43	3951	2.723 ug/L	63
14) Carbon disulfide	4.20	76	7824	0.575 ug/L	97
15) Methyl Acetate	4.49	43	2331	0.701 ug/L	96
16) Methylene chloride	4.74	84	13526m	2.408 ug/L	
17) Methyl tert-butyl Ether	5.24	73	8583	0.639 ug/L #	79
18) trans-1,2-Dichloroethene	5.24	96	3491m	0.709 ug/L	
19) 1,1-Dichloroethane	6.03	63	5757	0.664 ug/L	88
21) 2-Butanone	7.00	43	5675m	2.220 ug/L	
22) cis-1,2-Dichloroethene	7.00	96	3618m	0.664 ug/L	

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23) Bromochloromethane	7.35	128	1588	0.667	ug/L #	78
25) Chloroform	7.52	83	12694	1.358	ug/L	85
27) 1,2-Dichloroethane	8.24	62	4109	0.658	ug/L	96
30) Cyclohexane	7.80	56	5885	0.685	ug/L	92
31) 1,1,1-Trichloroethane	7.71	97	4768	0.615	ug/L #	73
32) Carbon tetrachloride	7.92	117	4471	0.661	ug/L	98
34) Benzene	8.17	78	13582	0.660	ug/L	100
35) Trichloroethene	8.95	95	3830	0.710	ug/L	89
36) Methylcyclohexane	9.18	83	5682	0.615	ug/L #	85
40) 1,2-Dichloropropane	9.22	63	3310	0.635	ug/L #	91
41) Bromodichloromethane	9.51	83	4405	0.656	ug/L #	77
42) cis-1,3-Dichloropropene	9.94	75	4389	0.522	ug/L	98
43) 4-Methyl-2-pentanone	10.08	43	6636	1.330	ug/L #	92
44) Toluene	10.25	91	15528	0.698	ug/L	95
45) trans-1,3-Dichloropropene	10.47	75	4794	0.664	ug/L	99
46) 1,1,2-Trichloroethane	10.65	97	2524	0.590	ug/L #	87
47) Tetrachloroethene	10.72	164	3208m	0.796	ug/L	
49) 2-Hexanone	10.83	43	6088	1.567	ug/L #	47
50) Dibromochloromethane	10.99	129	2820	0.583	ug/L	99
51) 1,2-Dibromoethane	11.09	107	2424	0.582	ug/L #	66
52) Chlorobenzene	11.52	112	9333	0.661	ug/L #	85
53) Ethylbenzene	11.60	91	16675	0.662	ug/L	91
54) m,p-Xylene	11.70	106	6527	0.685	ug/L	98
55) o-xylene	12.03	106	6074	0.650	ug/L	79
56) Styrene	12.05	104	9074	0.584	ug/L	88
57) Isopropylbenzene	12.33	105	15114	0.621	ug/L #	95
58) 1,1,1,2,2-Tetrachloroethane	12.58	83	3697	0.693	ug/L #	92
59) 1,2,3-Trichloropropane	12.63	75	2626	0.605	ug/L	99
62) Bromoform	12.22	173	1491	0.529	ug/L #	95
63) 1,3-Dichlorobenzene	13.36	146	7861	0.742	ug/L	93
64) 1,4-Dichlorobenzene	13.45	146	8291	0.783	ug/L	95
65) 1,2-Dichlorobenzene	13.74	146	6703	0.684	ug/L #	92
66) 1,2-Dibromo-3-chloropropan	14.35	75	628m	0.674	ug/L	
67) 1,3,5-Trichlorobenzene	14.50	180	5701	0.772	ug/L	94
68) 1,2,4-trichlorobenzene	15.00	180	5416	0.821	ug/L	95
69) Naphthalene	15.23	128	10758	0.654	ug/L #	95
70) 1,2,3-Trichlorobenzene	15.42	180	4433	0.723	ug/L #	51

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

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