

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
 Data File : VV013020.D
 Acq On : 30 Sep 2019 16:18
 Operator : SY/MD
 Sample : MDL02
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL02

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:22 PM

Quant Time: Oct 02 08:46:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 30 15:00:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	757177	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	755744	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	392201	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	260014	24.00	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.00%
7) Chloroethane-d5	1.58	69	222275	24.47	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	97.88%
11) 1,1-Dichloroethene-d2	2.13	63	346232	18.56	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.24%
21) 2-Butanone-d5	3.93	46	185137	48.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.82%
24) Chloroform-d	4.40	84	476831	23.38	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	5.08	65	282166	24.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.28%
32) Benzene-d6	5.10	84	1006996	24.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.64%
36) 1,2-Dichloropropane-d6	6.11	67	322522	24.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	98.72%
41) Toluene-d8	7.36	98	913416	23.99	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.96%
43) trans-1,3-Dichloropropene-	7.66	79	130447	23.79	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	95.16%
47) 2-Hexanone-d5	8.13	63	132678	48.16	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	96.32%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	284807	23.30	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	93.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	381912	25.25	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	13042	1.608 ug/L	98
3) Chloromethane	1.25	50	19722	1.909 ug/L	99
5) Vinyl chloride	1.32	62	19457	1.828 ug/L #	72
6) Bromomethane	1.53	94	12841	1.878 ug/L	99
8) Chloroethane	1.60	64	13146	1.954 ug/L	98
9) Trichlorofluoromethane	1.77	101	28680	1.990 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	20553	2.225 ug/L	90
12) 1,1-Dichloroethene	2.14	96	19475	2.244 ug/L #	1
13) Acetone	2.19	43	20096	4.985 ug/L	99
14) Carbon disulfide	2.32	76	49437	1.856 ug/L	100
15) Methyl Acetate	2.46	43	11805	1.898 ug/L	99
16) Methylene chloride	2.53	84	37544	3.027 ug/L	91
17) trans-1,2-Dichloroethene	2.79	96	20374	1.992 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	49230	1.913 ug/L	99
19) 1,1-Dichloroethane	3.23	63	37048	1.973 ug/L	97
20) cis-1,2-Dichloroethene	3.96	96	21854	1.921 ug/L	89
22) 2-Butanone	4.03	43	16445m	3.722 ug/L	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	11009	1.974	ug/L	98
25) Chloroform	4.42	83	44967	2.297	ug/L	95
27) 1,2-Dichloroethane	5.18	62	27913	2.075	ug/L	99
29) Cyclohexane	4.72	56	28213	1.696	ug/L	97
30) 1,1,1-Trichloroethane	4.66	97	28934	1.874	ug/L	97
31) Carbon tetrachloride	4.87	117	25979	1.870	ug/L	98
33) Benzene	5.15	78	85859	1.987	ug/L	100
34) Trichloroethene	5.96	95	23284	1.989	ug/L	97
35) Methylcyclohexane	6.18	83	31873	1.735	ug/L	98
37) 1,2-Dichloropropane	6.22	63	20948	1.889	ug/L #	93
38) Bromodichloromethane	6.55	83	27512	1.901	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	31612	1.894	ug/L	97
40) 4-Methyl-2-pentanone	7.27	43	32560	3.675	ug/L	97
42) Toluene	7.43	91	93805	2.041	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	26002m	1.897	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	17927	1.906	ug/L	94
46) Tetrachloroethene	8.02	164	18642	1.925	ug/L	98
48) 2-Hexanone	8.18	43	25275	3.918	ug/L	95
49) Dibromochloromethane	8.29	129	20475	1.909	ug/L	95
50) 1,2-Dibromoethane	8.40	107	18074	1.948	ug/L #	97
51) Chlorobenzene	8.92	112	63439	2.035	ug/L	97
52) Ethylbenzene	9.05	91	92137	1.825	ug/L	98
53) m,p-Xylene	9.18	106	34484	1.787	ug/L	96
54) o-Xylene	9.59	106	32245	1.747	ug/L	94
55) Styrene	9.60	104	51391	1.590	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.28	83	23524	2.051	ug/L #	98
59) Bromoform	9.77	173	12846	1.912	ug/L	98
60) Isopropylbenzene	9.97	105	81778	1.730	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	18237	2.043	ug/L	99
62) 1,3,5-Trimethylbenzene	10.58	105	61398	1.612	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	61475	1.607	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	50968	2.054	ug/L	97
65) 1,4-Dichlorobenzene	11.31	146	53679	2.060	ug/L	96
67) 1,2-Dichlorobenzene	11.69	146	50740	2.142	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	3866	1.997	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	39372	1.971	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	32206	1.865	ug/L	97
71) Naphthalene	13.55	128	54652	1.624	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	31493	1.890	ug/L	98

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

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