

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV092719\
 Data File : VV013003.D
 Acq On : 27 Sep 2019 10:18
 Operator : SY/MD
 Sample : VSTDCCC025
 Misc : 5.00G/10ML/MSVOA_V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02575

Manual Integrations
 APPROVED

MMDadoda
 10/2/2019 9:01:30 AM

Quant Time: Sep 27 22:50:08 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM092319S.M

Quant Title : VOC Analysis

QLast Update : Fri Sep 27 14:59:31 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	830858	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	801133	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	430362	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	274393	21.28	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.12%
7) Chloroethane-d5	1.58	69	240945	23.12	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.48%
10) 1,1-Dichloroethene-d2	2.13	63	493809	23.03	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.12%
20) 2-Butanone-d5	3.95	46	169548	38.09	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	76.18%
24) Chloroform-d	4.40	84	514718	22.55	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	90.20%
26) 1,2-Dichloroethane-d4	5.08	65	276470	20.84	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.36%
29) Benzene-d6	5.09	84	1036090	23.16	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.64%
33) 1,2-Dichloropropane-d6	6.11	67	319609	22.80	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.20%
37) Toluene-d8	7.36	98	969816	23.88	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.52%
38) trans-1,3-Dichloropropene-	7.66	79	129062	21.74	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	86.96%
39) 2-Hexanone-d5	8.13	63	116884	41.43	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	82.86%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	270826	20.34	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	81.36%
61) 1,2-Dichlorobenzene-d4	11.67	152	368058	22.01	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	88.04%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	268939	29.392	ug/L 99
3) Chloromethane	1.25	50	316889	26.519	ug/L 100
5) Vinyl chloride	1.33	62	328091	27.810	ug/L 100
6) Bromomethane	1.54	94	196302	26.655	ug/L 99
8) Chloroethane	1.60	64	203995	28.139	ug/L 98
9) Trichlorofluoromethane	1.77	101	433743	27.183	ug/L 100
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	268108	26.290	ug/L 99
12) 1,1-Dichloroethene	2.14	96	249647	26.580	ug/L 93
13) Acetone	2.21	43	201465	42.584	ug/L 100
14) Carbon disulfide	2.32	76	774256	25.807	ug/L 99
15) Methyl Acetate	2.47	43	146590	19.977	ug/L 98
16) Methylene chloride	2.53	84	313273	25.226	ug/L 100
17) Methyl tert-butyl Ether	2.80	73	643013	23.333	ug/L 99
18) trans-1,2-Dichloroethene	2.79	96	285098	25.645	ug/L 98
19) 1,1-Dichloroethane	3.23	63	526603	25.957	ug/L 99
21) 2-Butanone	4.03	43	232318m	42.195	ug/L
22) cis-1,2-Dichloroethene	3.96	96	311155	25.573	ug/L 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	144084	23.975	ug/L	99
25) Chloroform	4.42	83	533400	25.076	ug/L	100
27) 1,2-Dichloroethane	5.17	62	355997	23.679	ug/L	99
30) Cyclohexane	4.72	56	493866	28.734	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	435253	27.451	ug/L	98
32) Carbon tetrachloride	4.87	117	395982	27.543	ug/L	100
34) Benzene	5.14	78	1200097	26.911	ug/L	100
35) Trichloroethene	5.96	95	322553	25.965	ug/L	99
36) Methylcyclohexane	6.17	83	535615	28.086	ug/L	100
40) 1,2-Dichloropropane	6.22	63	309109	26.655	ug/L	100
41) Bromodichloromethane	6.55	83	381398	25.677	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	452719	26.568	ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	413160	43.364	ug/L	100
44) Toluene	7.43	91	1314676	27.952	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	360793	25.157	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	232938	23.660	ug/L	98
47) Tetrachloroethene	8.02	164	268022	26.546	ug/L	99
49) 2-Hexanone	8.18	43	322787	44.944	ug/L	95
50) Dibromochloromethane	8.29	129	275459	24.343	ug/L	98
51) 1,2-Dibromoethane	8.39	107	226355	23.462	ug/L	99
52) Chlorobenzene	8.92	112	840127	25.884	ug/L	99
53) Ethylbenzene	9.05	91	1449704	27.995	ug/L	100
54) m,p-Xylene	9.18	106	555708	28.227	ug/L	99
55) o-xylene	9.58	106	530961	28.306	ug/L	100
56) Styrene	9.60	104	931737	28.230	ug/L	99
57) Isopropylbenzene	9.97	105	1441763	29.246	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	271733	22.313	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	214890	21.379	ug/L	99
62) Bromoform	9.77	173	168872	23.124	ug/L	98
63) 1,3-Dichlorobenzene	11.22	146	696802	26.304	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	710922	25.570	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	645974	25.565	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	43590	19.458	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	553183	26.696	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	469243	25.896	ug/L	99
69) Naphthalene	13.55	128	823270	22.589	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	442851	25.419	ug/L	98

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

