

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051619\
 Data File : VF062627.D
 Acq On : 16 May 2019 15:28
 Operator : FY/SY
 Sample : VSTDIC005
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 5/17/2019 4:20:31 PM

Quant Time: May 17 05:24:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 04:56:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	823380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.79	114	1335643	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	985352	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	493230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	36337	6.25	ug/l	0.00
Spiked Amount			Recovery	=	12.50%	
35) Dibromofluoromethane	4.32	113	58573	5.73	ug/l	0.00
Spiked Amount			Recovery	=	11.46%	
50) Toluene-d8	7.72	98	141482	5.80	ug/l	0.00
Spiked Amount			Recovery	=	11.60%	
62) 4-Bromofluorobenzene	11.50	95	53887	5.82	ug/l	0.00
Spiked Amount			Recovery	=	11.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.01	85	67418	6.017	ug/l	84
3) Chloromethane	1.15	50	58170	5.638	ug/l	93
4) Vinyl Chloride	1.19	62	49436	5.205	ug/l	96
5) Bromomethane	1.40	94	32757	6.305	ug/l	87
6) Chloroethane	1.45	64	21282	6.102	ug/l	96
7) Trichlorofluoromethane	1.57	101	65856m	5.482	ug/l	
8) Diethyl Ether	1.72	74	14667	5.806	ug/l	85
9) 1,1,2-Trichlorotrifluoroet	1.91	101	44031	5.423	ug/l	91
10) Methyl Iodide	1.99	142	81336	5.099	ug/l	92
11) Tert butyl alcohol	2.70	59	9984	25.991	ug/l #	44
12) 1,1-Dichloroethene	1.88	96	38175	5.161	ug/l	87
13) Acrolein	2.10	56	7444	18.564	ug/l	92
14) Allyl chloride	2.21	41	30882	4.249	ug/l	96
15) Acrylonitrile	3.10	53	28797	26.576	ug/l #	92
16) Acetone	2.36	43	41749	27.658	ug/l	89
17) Carbon Disulfide	1.92	76	111413	5.286	ug/l #	90
18) Methyl Acetate	2.47	43	13600	5.272	ug/l #	87
19) Methyl tert-butyl Ether	2.55	73	64035	4.843	ug/l #	90
20) Methylene Chloride	2.35	84	47147m	6.268	ug/l	
21) trans-1,2-Dichloroethene	2.44	96	34333	4.749	ug/l	86
22) Diisopropyl ether	2.95	45	88754	5.375	ug/l #	89
23) Vinyl Acetate	3.35	43	284450	25.539	ug/l	98
24) 1,1-Dichloroethane	3.02	63	61903	5.111	ug/l	96
25) 2-Butanone	4.54	43	85014	26.361	ug/l	93
26) 2,2-Dichloropropane	3.79	77	33214	4.793	ug/l	99
27) cis-1,2-Dichloroethene	3.66	96	60539	5.091	ug/l	91
28) Bromochloromethane	3.91	49	38450	5.660	ug/l #	93
29) Tetrahydrofuran	4.29	42	33872	25.955	ug/l	93
30) Chloroform	4.06	83	87064	5.177	ug/l	85
31) Cyclohexane	3.89	56	79841	5.295	ug/l	96
32) 1,1,1-Trichloroethane	4.30	97	52713	4.720	ug/l	97
36) 1,1-Dichloropropene	4.49	75	66444	4.855	ug/l	94
37) Ethyl Acetate	4.31	43	33232	5.947	ug/l #	85
38) Carbon Tetrachloride	4.19	117	45851	4.755	ug/l	84

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	83240	5.055	ug/l	95
40) Benzene	4.83	78	189108	5.072	ug/l	98
41) Methacrylonitrile	4.95	41	17303	5.906	ug/l	94
42) 1,2-Dichloroethane	5.14	62	34542	4.646	ug/l #	71
43) Isopropyl Acetate	7.13	43	40951	5.657	ug/l #	98
44) Trichloroethene	5.70	130	51788	4.942	ug/l	100
45) 1,2-Dichloropropane	6.42	63	48042	5.104	ug/l	89
46) Dibromomethane	6.27	93	27309	5.021	ug/l	90
47) Bromodichloromethane	6.57	83	57268	5.071	ug/l	98
48) Methyl methacrylate	6.89	41	18855	4.983	ug/l #	85
49) 1,4-Dioxane	6.89	88	4841	99.886	ug/l #	84
51) 4-Methyl-2-Pentanone	8.42	43	135495	27.381	ug/l	93
52) Toluene	7.79	92	101032	5.167	ug/l	100
53) t-1,3-Dichloropropene	8.44	75	44885	4.858	ug/l	99
54) cis-1,3-Dichloropropene	7.47	75	61514	4.757	ug/l	94
55) 1,1,2-Trichloroethane	8.65	97	29451	5.087	ug/l	90
56) Ethyl methacrylate	8.76	69	37432	5.427	ug/l #	92
57) 1,3-Dichloropropane	9.01	76	51397	5.212	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.46	63	55496	24.718	ug/l	95
59) 2-Hexanone	9.63	43	97738	27.014	ug/l	98
60) Dibromochloromethane	8.86	129	35313	4.680	ug/l	89
61) 1,2-Dibromoethane	9.14	107	31331	5.095	ug/l	86
64) Tetrachloroethene	8.31	164	39921	5.114	ug/l	86
65) Chlorobenzene	9.94	112	97919	5.060	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	37504	4.827	ug/l	93
67) Ethyl Benzene	10.03	91	177741	5.287	ug/l	99
68) m/p-Xylenes	10.26	106	135217	10.701	ug/l	86
69) o-Xylene	10.82	106	63258	4.860	ug/l	86
70) Styrene	10.89	104	104698	5.292	ug/l	97
71) Bromoform	10.88	173	18626	4.787	ug/l #	89
73) Isopropylbenzene	11.22	105	189329	5.356	ug/l	90
74) N-amyl acetate	11.45	43	60415	5.540	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.77	83	39508	5.469	ug/l	88
76) 1,2,3-Trichloropropane	11.87	75	25713	5.417	ug/l	81
77) Bromobenzene	11.58	156	44695	5.086	ug/l	86
78) n-propylbenzene	11.67	91	236668	5.657	ug/l	90
79) 2-Chlorotoluene	11.80	91	127066	5.389	ug/l	94
80) 1,3,5-Trimethylbenzene	11.90	105	155876	5.499	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.95	75	11035m	4.184	ug/l	
82) 4-Chlorotoluene	11.98	91	120507	5.183	ug/l	94
83) tert-Butylbenzene	12.20	119	151271	5.260	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	140047	5.105	ug/l	100
85) sec-Butylbenzene	12.37	105	206498	5.351	ug/l	93
86) p-Isopropyltoluene	12.52	119	172278	5.297	ug/l	93
87) 1,3-Dichlorobenzene	12.54	146	84723	5.329	ug/l	96
88) 1,4-Dichlorobenzene	12.63	146	81421	5.458	ug/l	99
89) n-Butylbenzene	12.90	91	176516	5.504	ug/l	90
90) Hexachloroethane	12.97	117	37218	4.770	ug/l	100
91) 1,2-Dichlorobenzene	13.00	146	78657	5.551	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.69	75	3876	4.497	ug/l	91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	52176	5.144	ug/l	95
94) Hexachlorobutadiene	14.23	225	34041	4.809	ug/l	95
95) Naphthalene	14.50	128	90857	4.930	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	46886	4.880	ug/l	89

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

