

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021936.D
 Acq On : 12 May 2021 18:57
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:19 PM

Quant Time: May 13 06:00:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.903	128	19053	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	108648	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96339	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44351	30.22	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	100.73%	
60) 4-Bromofluorobenzene	11.085	95	47906	29.96	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	99.87%	
63) Toluene-d8	8.653	98	130957	29.75	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.17%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	118562	105.41	ug/l	94
3) Chloromethane	1.294	50	136989	101.40	ug/l	100
4) Vinyl Chloride	1.373	62	149193	106.33	ug/l	99
5) Bromomethane	1.605	94	66087	83.69	ug/l	99
6) Chloroethane	1.678	64	93682	103.71	ug/l	98
7) Trichlorofluoromethane	1.885	101	205213	104.67	ug/l	98
8) Diethyl Ether	2.135	74	87074	103.55	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.331	101	115913	103.10	ug/l	99
10) 1,1-Dichloroethene	2.318	96	115283	101.80	ug/l	93
11) Methyl Iodide	2.452	142	144227	128.06	ug/l	96
12) Methyl Acetate	2.709	43	163756	104.57	ug/l	100
13) Acrolein	2.239	56	143355	590.31	ug/l	99
14) Acrylonitrile	3.068	53	331769	519.25	ug/l	97
15) Acetone	2.385	58	97215	509.65	ug/l	92
16) Carbon Disulfide	2.513	76	328652	106.08	ug/l	97
17) Allyl chloride	2.666	41	209410	104.91	ug/l	98
18) Methylene Chloride	2.794	84	133158	98.91	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	127865	103.89	ug/l	97
20) Diisopropyl ether	3.769	45	398597	105.94	ug/l	97
21) 1,1-Dichloroethane	3.617	63	233484	103.61	ug/l	99
22) cis-1,2-Dichloroethene	4.501	96	152091	105.16	ug/l	98
23) tert-Butyl Alcohol	2.989	59	159855	514.66	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	381711	103.52	ug/l	100
25) Chloroform	5.104	83	240177	105.15	ug/l	100
26) Cyclohexane	5.476	56	193163	103.89	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	181399	106.68	ug/l	99
30) 2-Butanone	4.568	43	510181	530.04	ug/l	100
31) 2,2-Dichloropropane	4.483	77	204920	102.56	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	212600	105.97	ug/l	98
33) Carbon Tetrachloride	5.690	117	181838	106.79	ug/l	96
34) Benzene	6.049	78	543439	104.74	ug/l #	95
35) Methacrylonitrile	4.928	41	111135	107.86	ug/l	96
36) 1,2-Dichloroethane	6.098	62	188388	106.36	ug/l #	89
37) Trichloroethene	7.128	130	137547	105.49	ug/l	99
38) Methylcyclohexane	7.385	83	205739	106.58	ug/l	98
39) 1,2-Dichloropropane	7.439	63	140213	108.24	ug/l	99
40) Dibromomethane	7.586	93	93496	103.71	ug/l	99
41) Bromodichloromethane	7.830	83	193425	107.48	ug/l	99
42) Vinyl Acetate	3.733	43	1972954	548.87	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021936.D
 Acq On : 12 May 2021 18:57
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:19 PM

Quant Time: May 13 06:00:40 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	203428	120.53	ug/l	98
44) Isopropyl Acetate	6.348	43	345381	107.06	ug/l	98
45) 1,4-Dioxane	7.671	88	61669	2141.11	ug/l #	100
46) Methyl methacrylate	7.702	41	161242	107.81	ug/l	94
47) n-amyl Acetate	10.847	43	304342	113.42	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	223734	110.74	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	238880	110.17	ug/l	98
50) 1,1,2-Trichloroethane	9.159	97	136929	106.73	ug/l	96
51) Ethyl methacrylate	9.122	69	224114	108.31	ug/l	97
52) 1,3-Dichloropropane	9.311	76	233724	104.48	ug/l	100
53) Dibromochloromethane	9.524	129	142319	110.40	ug/l	100
54) 1,2-Dibromoethane	9.616	107	141226	107.18	ug/l	99
55) 2-Chloroethyl vinyl ether	8.250	63	583799	534.55	ug/l	99
56) Bromoform	10.805	173	91414	111.78	ug/l	98
58) 4-Methyl-2-Pentanone	8.579	43	1027477	528.88	ug/l	99
59) 2-Hexanone	9.439	43	771978	536.54	ug/l	99
61) Tetrachloroethene	9.281	164	110129	100.78	ug/l	87
62) Toluene	8.726	91	576497	104.51	ug/l	100
64) Chlorobenzene	10.085	112	345670	104.80	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	128250	106.54	ug/l	99
66) Ethyl Benzene	10.201	91	646520	106.54	ug/l	99
67) m/p-Xylenes	10.305	106	487770	243.02	ug/l	98
68) o-Xylene	10.646	106	234130	104.52	ug/l	97
69) Styrene	10.658	104	403291	107.60	ug/l	98
70) Isopropylbenzene	10.969	105	616055	104.71	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.219	83	207425	106.93	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	179409m	78.84	ug/l	
73) Bromobenzene	11.201	156	129682	104.05	ug/l	96
74) n-propylbenzene	11.311	91	744564	108.57	ug/l	100
75) 2-Chlorotoluene	11.372	91	433078	106.63	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	531839	108.26	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	80668	115.75	ug/l	94
78) 4-Chlorotoluene	11.457	91	513006	109.73	ug/l	100
79) tert-butylbenzene	11.719	119	489871	104.27	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	526089	107.16	ug/l	99
81) sec-Butylbenzene	11.896	105	639665	108.33	ug/l	100
82) p-Isopropyltoluene	12.012	119	539597	109.01	ug/l	99
83) 1,3-Dichlorobenzene	11.975	146	254094	107.53	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	256821	108.35	ug/l	98
85) n-Butylbenzene	12.335	91	521594	114.96	ug/l	99
86) Hexachloroethane	12.542	117	92265	112.16	ug/l	97
87) 1,2-Dichlorobenzene	12.341	146	247574	108.16	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.944	75	49739	115.16	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	159305	113.62	ug/l	97
90) Hexachlorobutadiene	13.731	225	61711	113.76	ug/l	96
91) Naphthalene	13.780	128	626106	113.84	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	158326	113.74	ug/l	99

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

