

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013091.D
 Acq On : 16 Oct 2019 12:41
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX101619

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:05 PM

Quant Time: Oct 17 03:15:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	37822	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	213282	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	193749	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	86475	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	11.13	95	99875	29.45	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.17%
63) Toluene-d8	8.71	98	263586	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	46983	18.425	ug/l 99
3) Chloromethane	1.32	50	46251	18.479	ug/l 98
4) Vinyl Chloride	1.40	62	44659	17.887	ug/l 94
5) Bromomethane	1.63	94	28641	24.547	ug/l 96
6) Chloroethane	1.72	64	28350	18.470	ug/l 99
7) Trichlorofluoromethane	1.92	101	66577	18.148	ug/l 99
8) Diethyl Ether	2.18	74	24632	18.245	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	41752	18.055	ug/l 98
10) 1,1-Dichloroethene	2.36	96	41905	18.420	ug/l 95
11) Methyl Iodide	2.50	142	38953	14.000	ug/l 97
12) Methyl Acetate	2.76	43	56667	17.813	ug/l 100
13) Acrolein	2.28	56	42896	93.706	ug/l 94
14) Acrylonitrile	3.13	53	118559	89.287	ug/l 99
15) Acetone	2.43	58	39173	83.333	ug/l 98
16) Carbon Disulfide	2.56	76	114037	18.536	ug/l 96
17) Allyl chloride	2.72	41	68960	17.863	ug/l 95
18) Methylene Chloride	2.84	84	45906	17.737	ug/l 96
19) trans-1,2-Dichloroethene	3.16	96	44944	18.451	ug/l 95
20) Diisopropyl ether	3.84	45	136503	18.430	ug/l 96
21) 1,1-Dichloroethane	3.69	63	77492	18.142	ug/l 98
22) cis-1,2-Dichloroethene	4.58	96	50676	18.102	ug/l 100
23) tert-Butyl Alcohol	3.03	59	59674	88.949	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	142108	18.328	ug/l 99
25) Chloroform	5.20	83	80014	18.116	ug/l 98
26) Cyclohexane	5.57	56	71082	18.314	ug/l # 98
29) 1,1-Dichloropropene	5.79	75	60163	18.493	ug/l 99
30) 2-Butanone	4.65	43	171726	89.616	ug/l 100
31) 2,2-Dichloropropane	4.57	77	68215	18.535	ug/l 98
32) 1,1,1-Trichloroethane	5.48	97	70064	18.410	ug/l 98
33) Carbon Tetrachloride	5.77	117	59156	18.118	ug/l 99
34) Benzene	6.13	78	177376	18.365	ug/l 99
35) Methacrylonitrile	5.03	41	33269	17.704	ug/l 95
36) 1,2-Dichloroethane	6.18	62	64671	18.520	ug/l 99
37) Trichloroethene	7.20	130	48536	18.811	ug/l 100
38) Methylcyclohexane	7.45	83	76879	19.308	ug/l 99
39) 1,2-Dichloropropane	7.50	63	45088	18.589	ug/l 97
40) Dibromomethane	7.65	93	30945	18.787	ug/l 95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013091.D
 Acq On : 16 Oct 2019 12:41
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX101619

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:52:05 PM

Quant Time: Oct 17 03:15:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 03:05:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	60053	18.362	ug/l	99
42) Vinyl Acetate	3.80	43	589626	93.961	ug/l	100
43) Ethyl Acetate	4.82	43	59562	17.271	ug/l	100
44) Isopropyl Acetate	6.43	43	101026	18.166	ug/l	98
45) 1,4-Dioxane	7.73	88	24357	356.361	ug/l	95
46) Methyl methacrylate	7.76	41	49256	18.122	ug/l	92
47) n-amyl Acetate	10.89	43	85640	18.086	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	67252	18.580	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	75332	18.866	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	44603	17.943	ug/l	98
51) Ethyl methacrylate	9.17	69	71895	18.389	ug/l	96
52) 1,3-Dichloropropane	9.36	76	76026	18.223	ug/l	99
53) Dibromochloromethane	9.57	129	45952	18.001	ug/l	100
54) 1,2-Dibromoethane	9.67	107	49075	18.769	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	157480	91.557	ug/l	100
56) Bromoform	10.85	173	31337	17.641	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	315493	89.492	ug/l	100
59) 2-Hexanone	9.48	43	246401	89.567	ug/l	100
61) Tetrachloroethene	9.33	164	45602	18.474	ug/l	94
62) Toluene	8.78	91	196603	18.672	ug/l	100
64) Chlorobenzene	10.14	112	125411	18.741	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	43813	17.826	ug/l	97
66) Ethyl Benzene	10.25	91	222174	18.487	ug/l	98
67) m/p-Xylenes	10.35	106	169272	37.439	ug/l	100
68) o-Xylene	10.70	106	82027	18.631	ug/l	97
69) Styrene	10.71	104	138469	18.269	ug/l	99
70) Isopropylbenzene	11.01	105	219693	18.682	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	67799	17.716	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	56333m	17.703	ug/l	
73) Bromobenzene	11.25	156	52183	18.606	ug/l	96
74) n-propylbenzene	11.35	91	247701	18.858	ug/l	100
75) 2-Chlorotoluene	11.42	91	148040	18.398	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	179807	17.969	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	21596	17.537	ug/l	89
78) 4-Chlorotoluene	11.51	91	172342	18.522	ug/l	99
79) tert-butylbenzene	11.76	119	174810	18.571	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	184694	18.508	ug/l	97
81) sec-Butylbenzene	11.94	105	202619	17.869	ug/l	98
82) p-Isopropyltoluene	12.06	119	190805	18.453	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	94944	18.677	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	93357	18.259	ug/l	99
85) n-Butylbenzene	12.39	91	159363	18.057	ug/l	97
86) Hexachloroethane	12.59	117	31112	17.364	ug/l	91
87) 1,2-Dichlorobenzene	12.39	146	90510	18.052	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	15536	17.679	ug/l	100
89) 1,2,4-Trichlorobenzene	13.64	180	58172	18.596	ug/l	99
90) Hexachlorobutadiene	13.78	225	26906	18.121	ug/l	95
91) Naphthalene	13.83	128	188880	17.753	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	58756	18.751	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
Data File : VX013091.D
Acq On : 16 Oct 2019 12:41
Operator : JC/SP
Sample : VSTDICV020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX101619

Manual Integrations
APPROVED

MMDadoda
10/18/2019 4:52:05 PM

Quant Time: Oct 17 03:15:47 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 17 03:05:35 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

