

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX022120\
 Data File : VX014985.D
 Acq On : 21 Feb 2020 09:59
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Feb 21 10:54:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 10:51:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	76671	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	418464	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	382998	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	158433	29.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.87%
60) 4-Bromofluorobenzene	11.13	95	180553	29.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.57%
63) Toluene-d8	8.71	98	497333	28.92	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.40%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	168562	34.68	ug/l	97
3) Chloromethane	1.32	50	218196	39.91	ug/l	97
4) Vinyl Chloride	1.41	62	241183	39.54	ug/l	99
5) Bromomethane	1.64	94	158923	39.89	ug/l	98
6) Chloroethane	1.72	64	157634	44.53	ug/l	99
7) Trichlorofluoromethane	1.93	101	350394	49.07	ug/l	97
8) Diethyl Ether	2.18	74	151013	48.66	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.38	101	205944	49.50	ug/l	99
10) 1,1-Dichloroethene	2.37	96	204186	48.72	ug/l	99
11) Methyl Iodide	2.51	142	272035	49.58	ug/l	99
12) Methyl Acetate	2.76	43	260323	36.65	ug/l	100
13) Acrolein	2.28	56	250850	300.77	ug/l	99
14) Acrylonitrile	3.13	53	590956	233.81	ug/l	99
15) Acetone	2.43	58	214096	247.55	ug/l	98
16) Carbon Disulfide	2.57	76	554697	48.46	ug/l	99
17) Allyl chloride	2.72	41	361808	47.17	ug/l	98
18) Methylene Chloride	2.85	84	231404	47.32	ug/l	93
19) trans-1,2-Dichloroethene	3.16	96	225164	49.72	ug/l	98
20) Diisopropyl ether	3.84	45	730080	47.74	ug/l	98
21) 1,1-Dichloroethane	3.69	63	401849	48.46	ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	260168	49.79	ug/l	99
23) tert-Butyl Alcohol	2.76	59	22751	21.73	ug/l	100
24) Methyl tert-Butyl Ether	3.19	73	688624	49.45	ug/l	99
25) Chloroform	5.20	83	406472	50.05	ug/l	96
26) Cyclohexane	5.58	56	359264	47.11	ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	307328	50.79	ug/l	99
30) 2-Butanone	4.65	43	910304	241.02	ug/l	99
31) 2,2-Dichloropropane	4.58	77	335910	51.52	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	346134	51.37	ug/l	99
33) Carbon Tetrachloride	5.78	117	303578	52.22	ug/l	96
34) Benzene	6.14	78	921359	49.53	ug/l	97
35) Methacrylonitrile	5.03	41	184400	49.12	ug/l	96
36) 1,2-Dichloroethane	6.19	62	329407	50.69	ug/l	99
37) Trichloroethene	7.21	130	262897	51.56	ug/l	93
38) Methylcyclohexane	7.46	83	381194	50.74	ug/l	100
39) 1,2-Dichloropropane	7.51	63	236214	48.92	ug/l	99
40) Dibromomethane	7.65	93	157101	49.96	ug/l	96

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 VSTDIC050

Quant Time: Feb 21 10:54:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X022120W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 21 10:51:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	318755	51.80	ug/l	99
42) Vinyl Acetate	3.81	43	3181711	266.85	ug/l	99
43) Ethyl Acetate	4.82	43	324539	47.69	ug/l	97
44) Isopropyl Acetate	6.43	43	546277	49.29	ug/l	99
45) 1,4-Dioxane	7.73	88	102456	941.29	ug/l	99
46) Methyl methacrylate	7.76	41	273209	50.20	ug/l	98
47) n-amyl Acetate	10.89	43	482730	51.44	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	357458	53.23	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	389065	51.53	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	235738	49.60	ug/l	97
51) Ethyl methacrylate	9.17	69	376135	50.83	ug/l	99
52) 1,3-Dichloropropane	9.37	76	397429	49.36	ug/l	99
53) Dibromochloromethane	9.57	129	260974	53.01	ug/l	99
54) 1,2-Dibromoethane	9.67	107	251793	51.11	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	954278	272.49	ug/l	99
56) Bromoform	10.85	173	202931	53.50	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1660648	238.28	ug/l	100
59) 2-Hexanone	9.48	43	1309967	242.00	ug/l	99
61) Tetrachloroethene	9.33	164	264873	47.83	ug/l	97
62) Toluene	8.78	91	999794	49.83	ug/l	99
64) Chlorobenzene	10.14	112	642918	51.18	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	239273	51.53	ug/l	100
66) Ethyl Benzene	10.25	91	1129245	51.50	ug/l	99
67) m/p-Xylenes	10.36	106	869747	103.61	ug/l	98
68) o-Xylene	10.70	106	418457	51.22	ug/l	99
69) Styrene	10.71	104	726434	52.43	ug/l	99
70) Isopropylbenzene	11.01	105	1116788	51.93	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	355430	49.62	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	419417	66.91	ug/l	91
73) Bromobenzene	11.25	156	299267	52.33	ug/l	99
74) n-propylbenzene	11.35	91	1287243	52.33	ug/l	100
75) 2-Chlorotoluene	11.42	91	742544	50.45	ug/l	99
76) 1,3,5-Trimethylbenzene	11.50	105	938852	52.35	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	124382	52.50	ug/l	94
78) 4-Chlorotoluene	11.51	91	863157	51.59	ug/l	100
79) tert-butylbenzene	11.76	119	897952	53.21	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	931917	52.23	ug/l	100
81) sec-Butylbenzene	11.94	105	1087357	52.23	ug/l	99
82) p-Isopropyltoluene	12.06	119	1012620	53.22	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	527130	52.89	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	524337	52.60	ug/l	99
85) n-Butylbenzene	12.38	91	894361	53.70	ug/l	99
86) Hexachloroethane	12.59	117	180200	53.01	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	529570	52.73	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	78432	51.13	ug/l	95
89) 1,2,4-Trichlorobenzene	13.64	180	380153	56.43	ug/l	99
90) Hexachlorobutadiene	13.78	225	187953	55.96	ug/l	97
91) Naphthalene	13.83	128	1109592	55.15	ug/l	100
92) 1,2,3-Trichlorobenzene	14.01	180	375523	54.96	ug/l	100

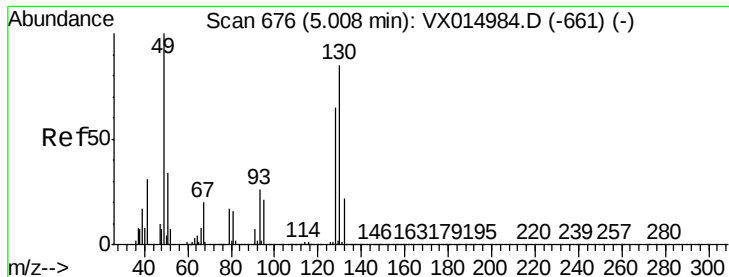
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX022120\
Data File : VX014985.D
Acq On : 21 Feb 2020 09:59
Operator : JC/SP
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VSTDICC050

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Feb 21 10:51:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC050

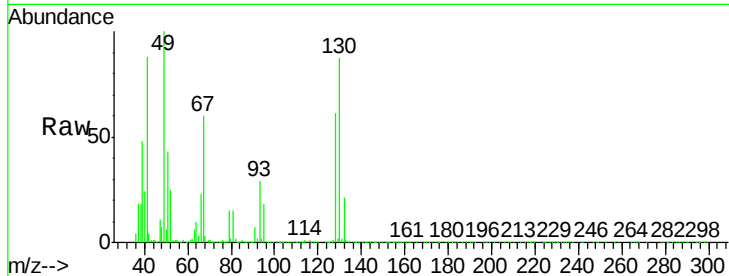
Tgt Ion:128 Resp: 76671

Ion Ratio Lower Upper

128 100

49 154.7 0.0 384.7

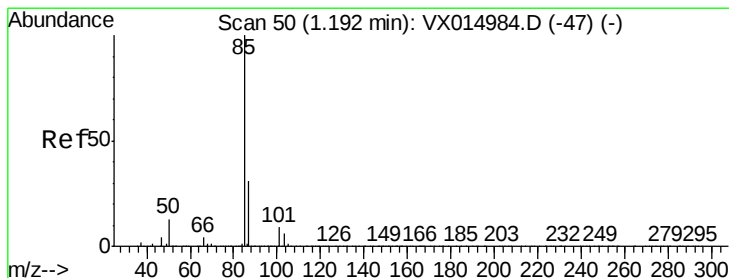
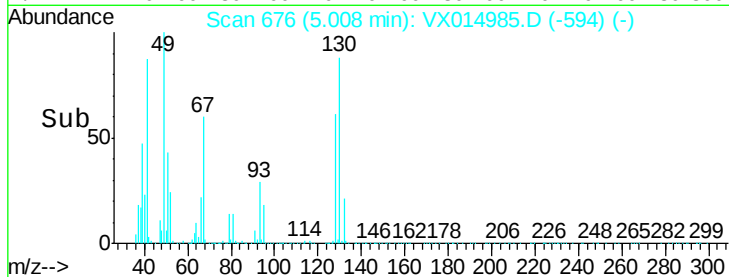
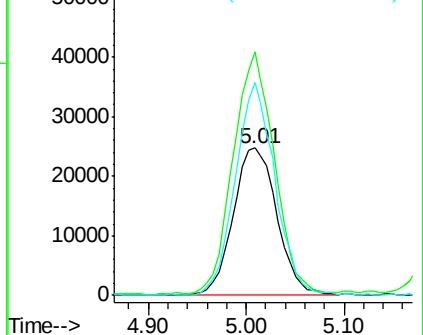
130 131.1 0.0 330.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 34.68 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014985.D

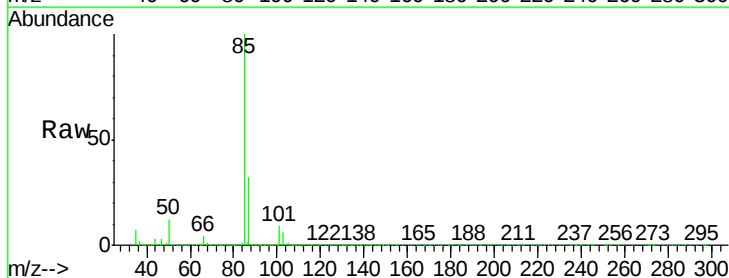
Acq: 21 Feb 2020 09:59

Tgt Ion: 85 Resp: 168562

Ion Ratio Lower Upper

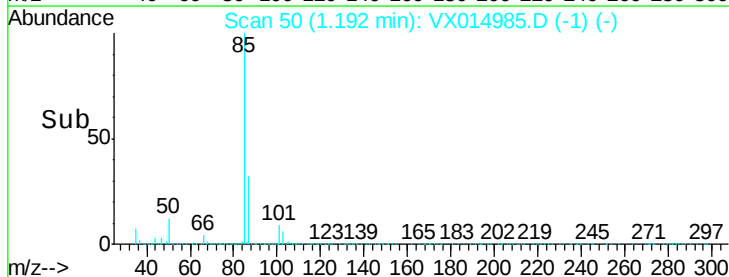
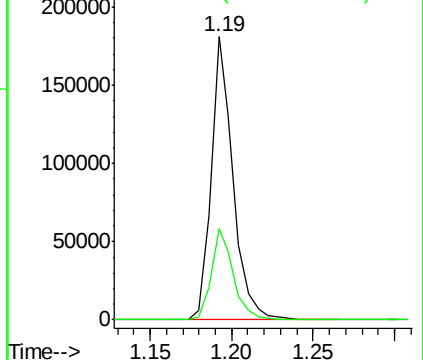
85 100

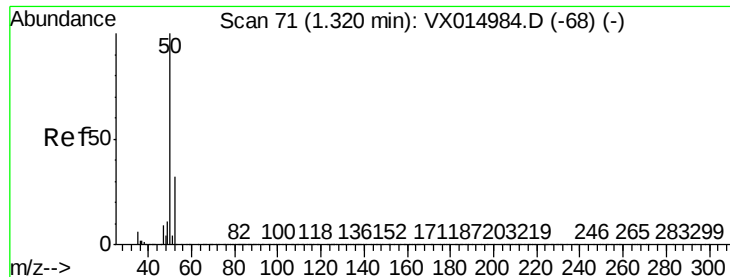
87 32.1 15.3 45.9



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

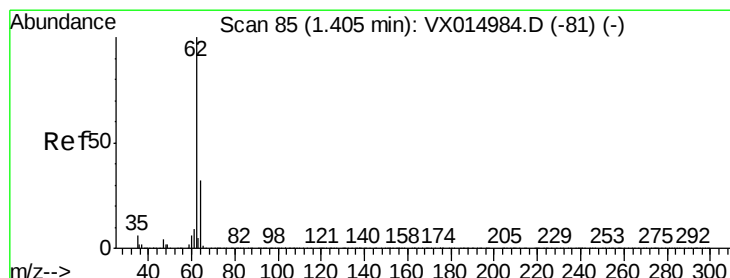
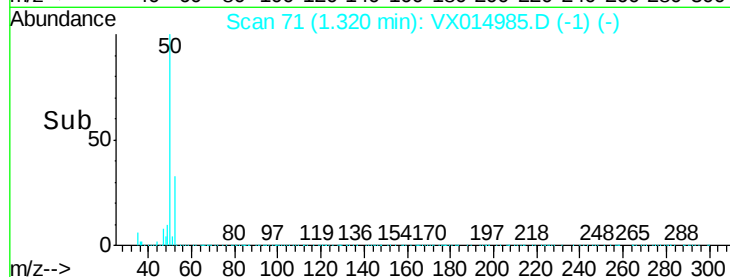
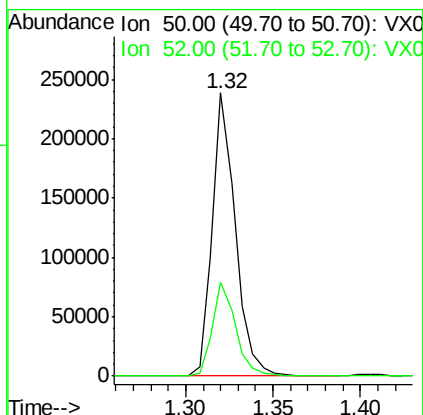
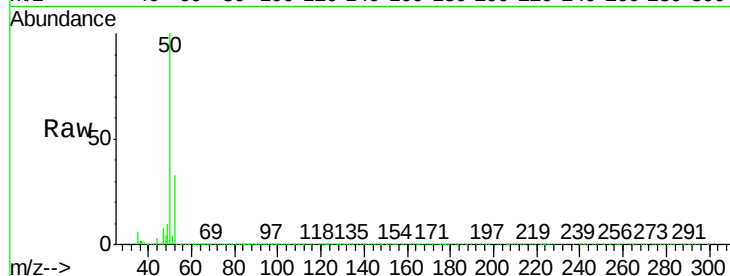




#3
Chloromethane
Concen: 39.91 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

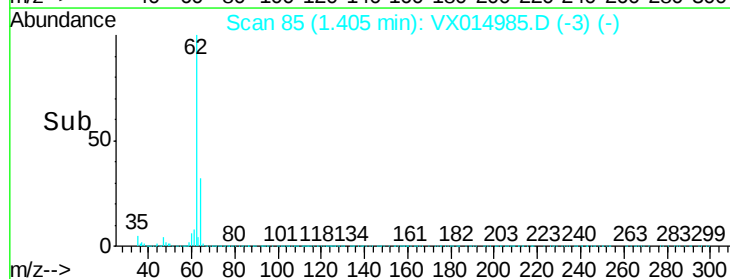
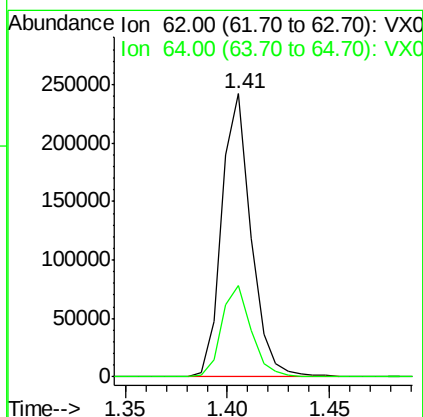
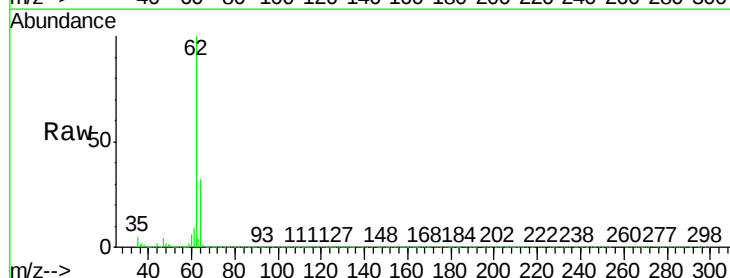
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC050

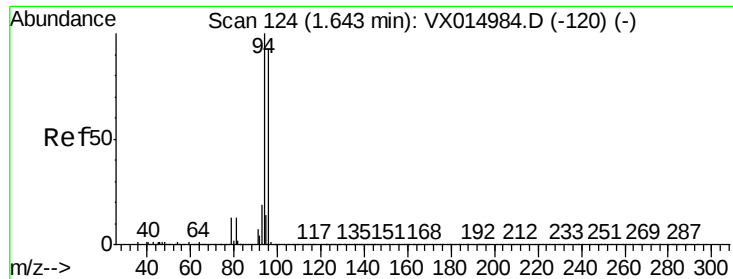
Tgt Ion: 50 Resp: 218196
Ion Ratio Lower Upper
50 100
52 33.3 25.4 38.0



#4
Vinyl Chloride
Concen: 39.54 ug/l
RT: 1.41 min Scan# 85
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

Tgt Ion: 62 Resp: 241183
Ion Ratio Lower Upper
62 100
64 32.2 25.4 38.0





#5

Bromomethane

Concen: 39.89 ug/l

RT: 1.64 min Scan# 123

Delta R.T. -0.01 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

Instrument :

MSVOA_X

ClientSampleId :

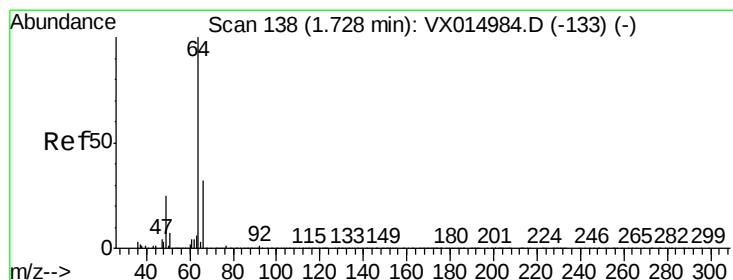
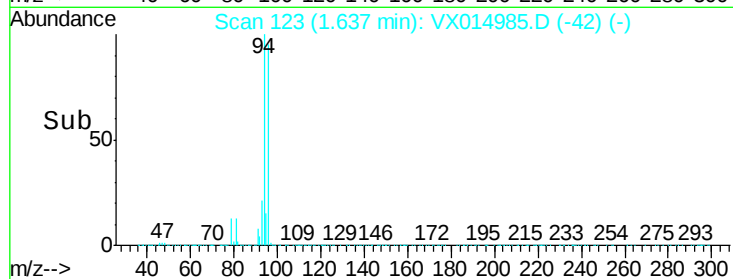
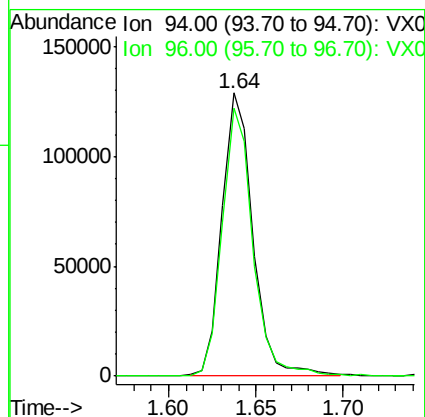
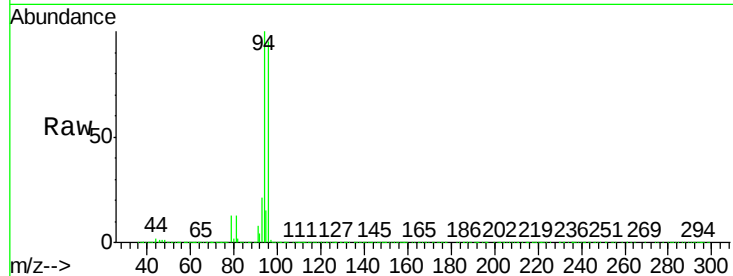
VSTDIC050

Tgt Ion: 94 Resp: 158923

Ion Ratio Lower Upper

94 100

96 95.0 74.6 112.0



#6

Chloroethane

Concen: 44.53 ug/l

RT: 1.72 min Scan# 137

Delta R.T. -0.01 min

Lab File: VX014985.D

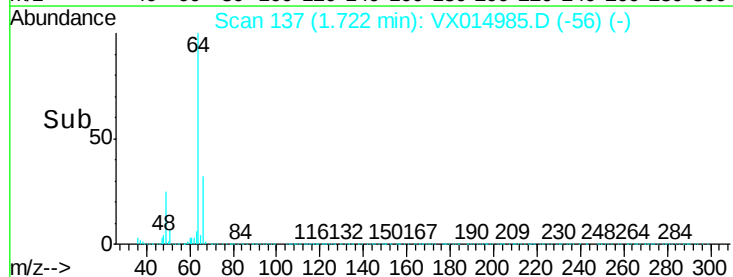
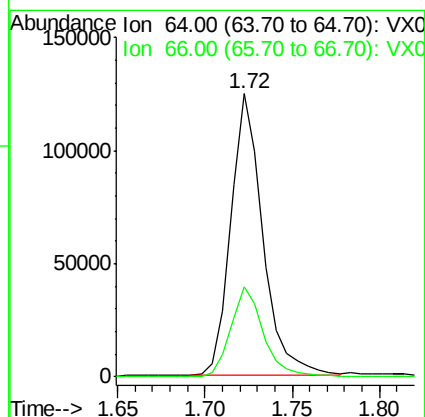
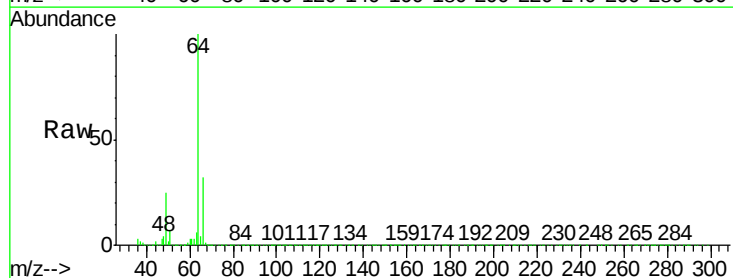
Acq: 21 Feb 2020 09:59

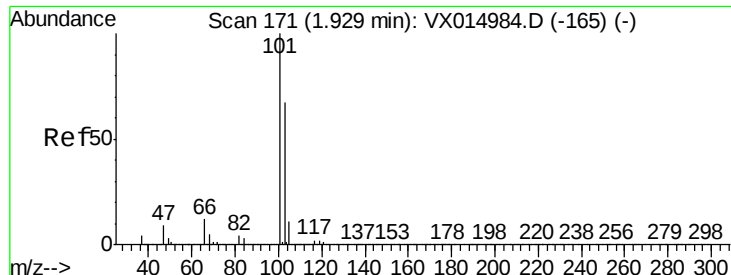
Tgt Ion: 64 Resp: 157634

Ion Ratio Lower Upper

64 100

66 31.7 25.8 38.6



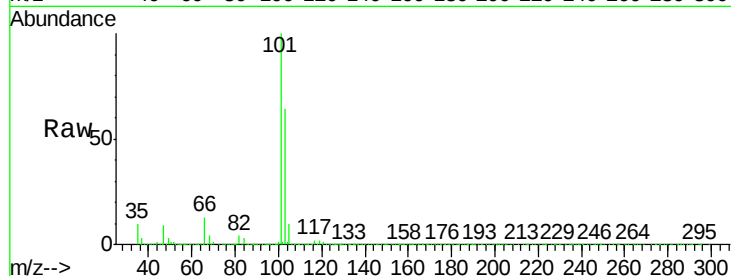


#7

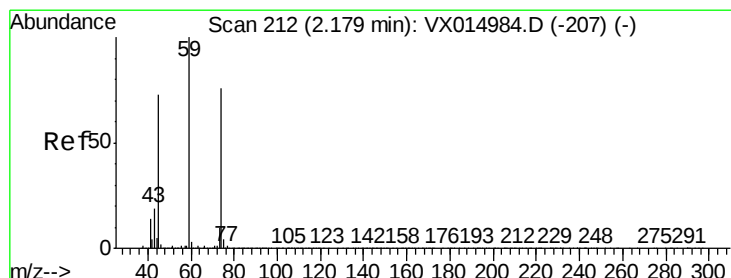
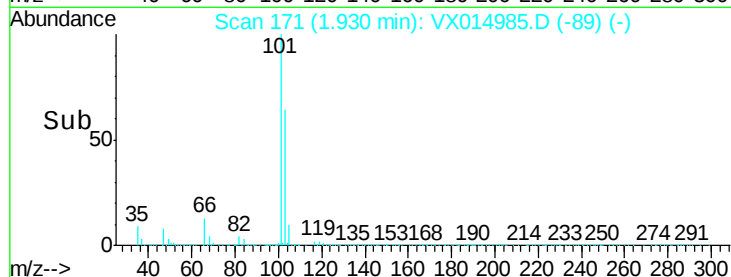
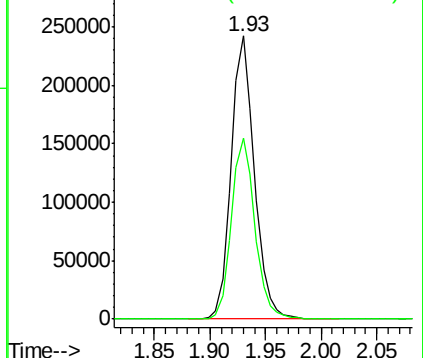
Trichlorofluoromethane
Concen: 49.07 ug/l
RT: 1.93 min Scan# 171
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC050

Tgt Ion: 101 Resp: 350394
Ion Ratio Lower Upper
101 100
103 64.1 53.4 80.2



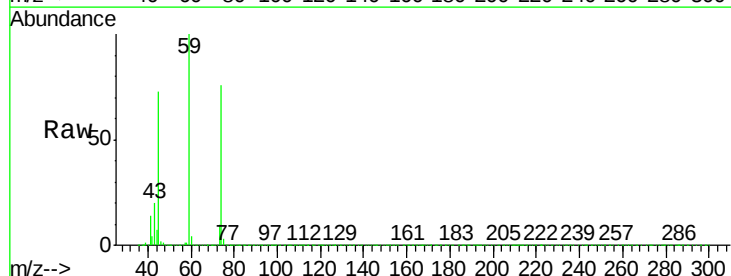
Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



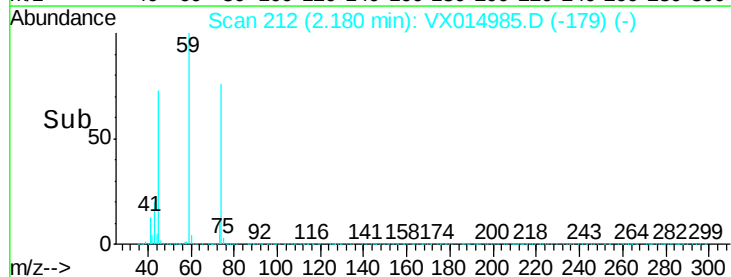
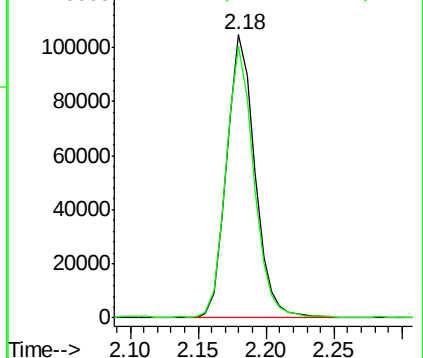
#8

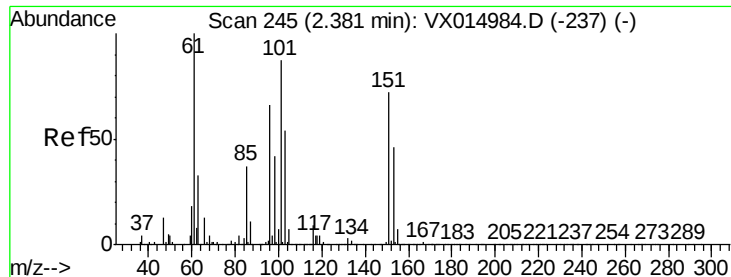
Diethyl Ether
Concen: 48.66 ug/l
RT: 2.18 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

Tgt Ion: 74 Resp: 151013
Ion Ratio Lower Upper
74 100
45 94.3 19.6 176.8



Abundance Ion 74.00 (73.70 to 74.70): VX0
Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.50 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

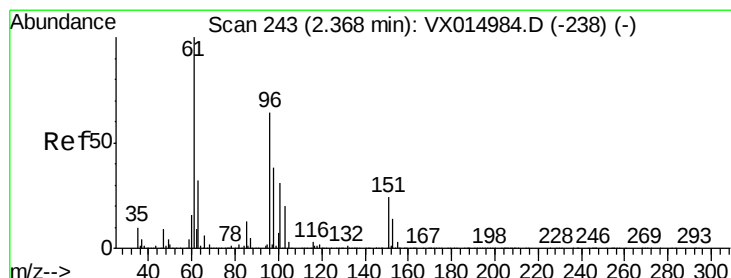
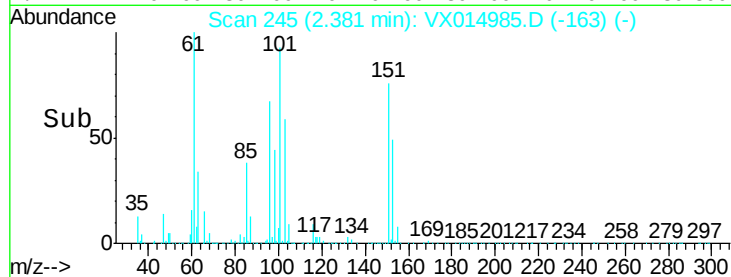
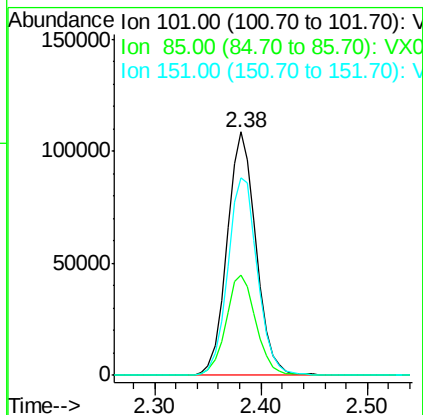
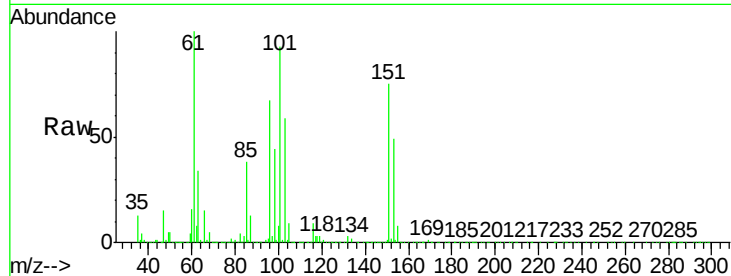
Instrument :

MSVOA_X

ClientSampleId :

VSTDIC050

Tgt Ion:	101	Resp:	205944
Ion Ratio	Lower	Upper	
101	100		
85	42.3	0.0	86.6
151	83.7	0.0	167.4



#10

1,1-Dichloroethene

Concen: 48.72 ug/l

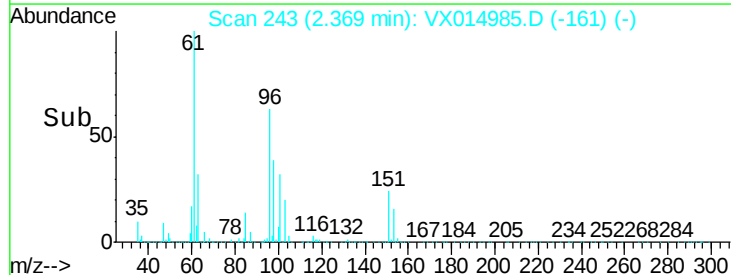
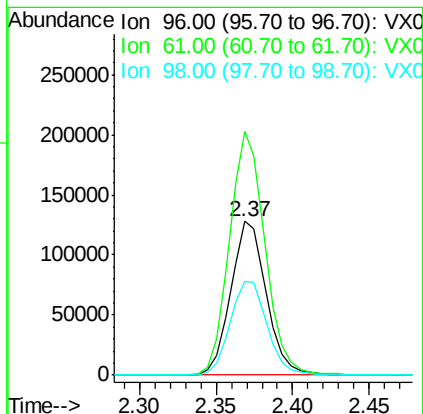
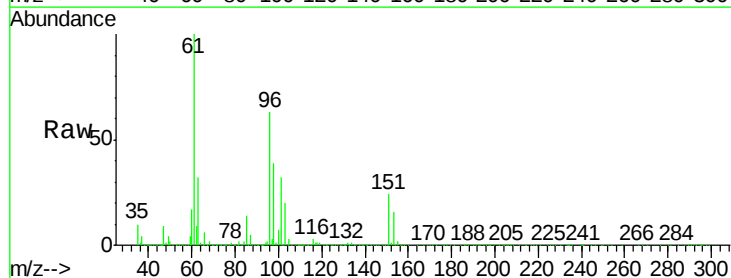
RT: 2.37 min Scan# 243

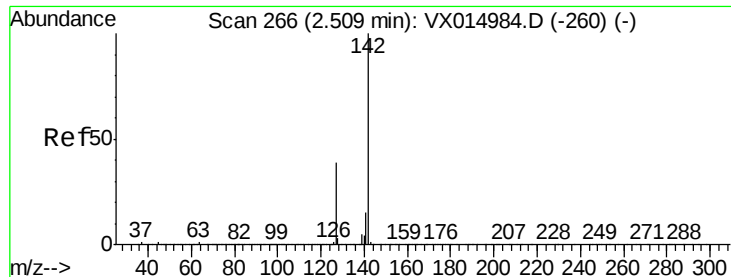
Delta R.T. 0.00 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

Tgt Ion:	96	Resp:	204186
Ion Ratio	Lower	Upper	
96	100		
61	158.4	126.1	189.1
98	61.2	48.2	72.2

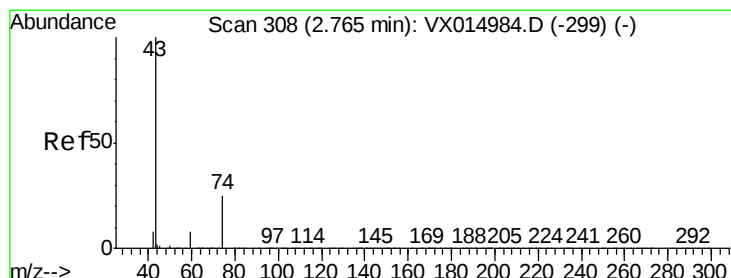
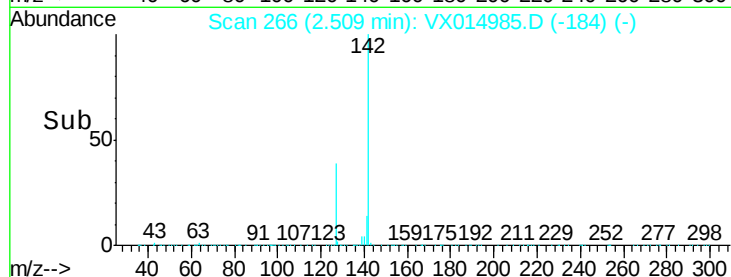
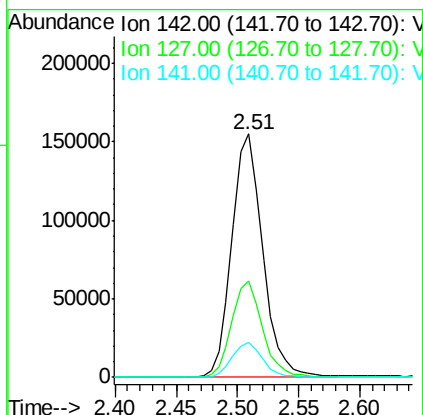
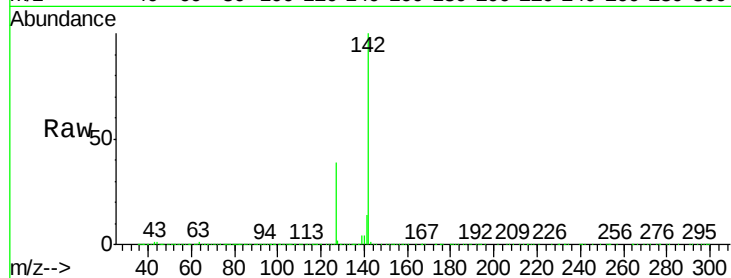




#11
Methyl Iodide
Concen: 49.58 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

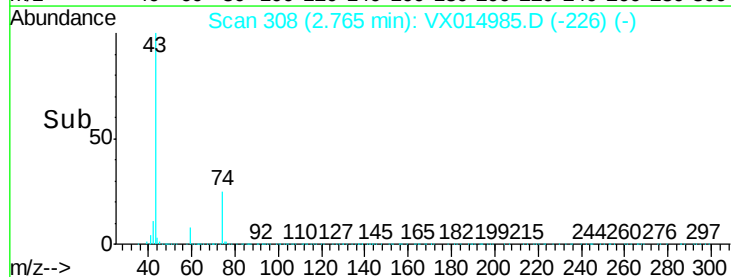
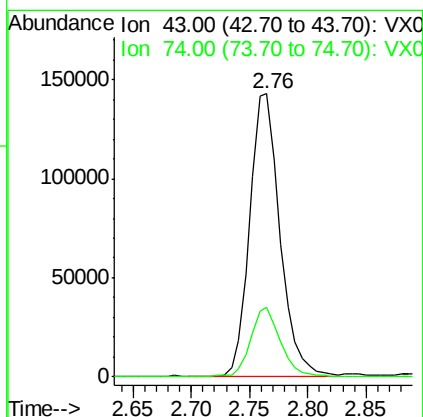
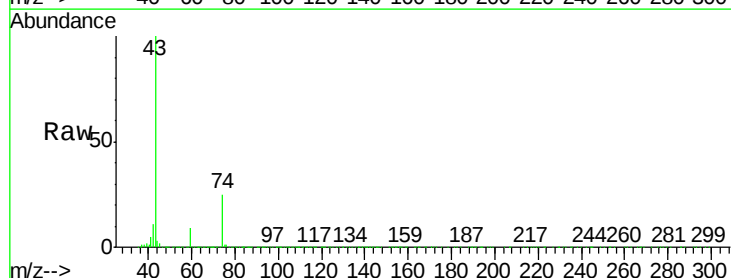
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC050

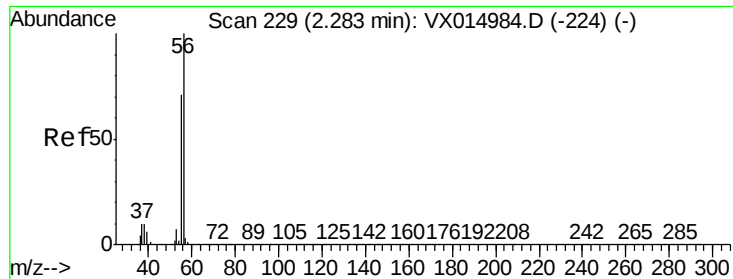
Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.4	19.7	59.0
141	14.2	7.4	22.2



#12
Methyl Acetate
Concen: 36.65 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014985.D
Acq: 21 Feb 2020 09:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.7	19.8	29.8





#13

Acrolein

Concen: 300.77 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

Instrument :

MSVOA_X

ClientSampleId :

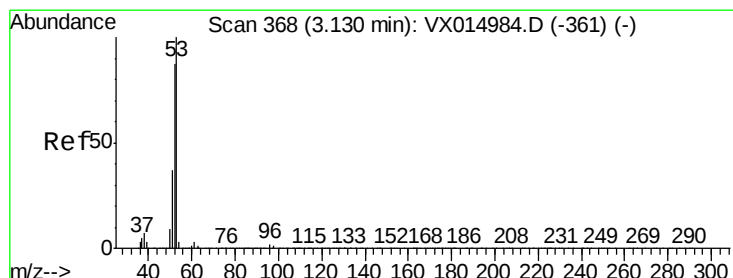
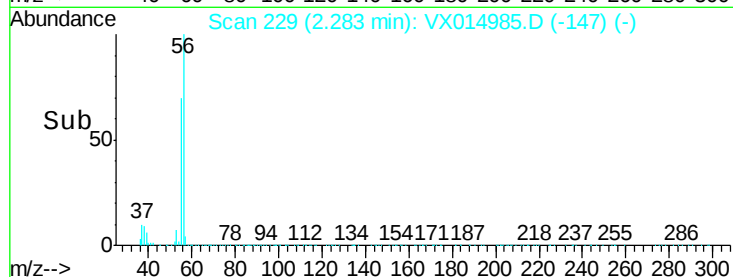
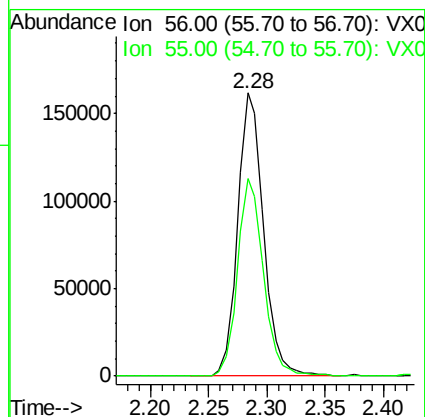
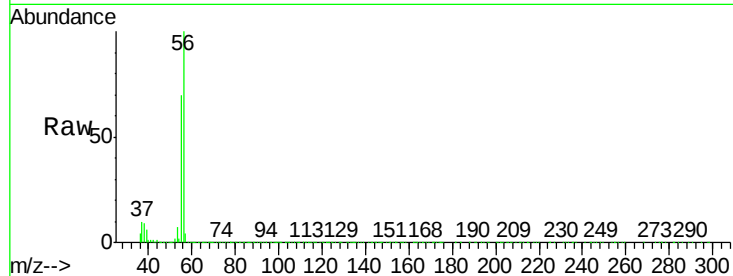
VSTDIC050

Tgt Ion: 56 Resp: 250850

Ion Ratio Lower Upper

56 100

55 69.3 56.2 84.2



#14

Acrylonitrile

Concen: 233.81 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014985.D

Acq: 21 Feb 2020 09:59

Tgt Ion: 53 Resp: 590956

Ion Ratio Lower Upper

53 100

52 82.4 41.5 124.6

51 36.0 18.1 54.4

