

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011788.D
 Acq On : 23 Aug 2019 11:22
 Operator : JC/SP
 Sample : VX0823WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0823WBS01

Quant Time: Aug 26 01:48:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	419360	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	540895	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	497005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	273997	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	176891	41.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.98%	
35) Dibromofluoromethane	5.49	113	169461	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	
50) Toluene-d8	8.71	98	626338	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	
62) 4-Bromofluorobenzene	11.13	95	235642	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.19	85	71674	18.313	ug/l 99
3) Chloromethane	1.32	50	63480	18.495	ug/l 98
4) Vinyl Chloride	1.40	62	64636	18.838	ug/l 99
5) Bromomethane	1.64	94	39688	20.997	ug/l 95
6) Chloroethane	1.71	64	39082	19.482	ug/l 96
7) Trichlorofluoromethane	1.92	101	101357	18.554	ug/l 98
8) Diethyl Ether	2.18	74	34230	18.428	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	59546	17.615	ug/l 94
10) Methyl Iodide	2.50	142	71693	17.364	ug/l 99
11) Tert butyl alcohol	3.03	59	66094	79.397	ug/l 97
12) 1,1-Dichloroethene	2.37	96	58685	17.804	ug/l 99
13) Acrolein	2.28	56	27435	85.258	ug/l 95
14) Allyl chloride	2.72	41	87543	16.993	ug/l 95
15) Acrylonitrile	3.13	53	160012	84.038	ug/l 98
16) Acetone	2.43	43	140265	76.541	ug/l 96
17) Carbon Disulfide	2.56	76	140861	16.902	ug/l 100
18) Methyl Acetate	2.76	43	90253	18.150	ug/l 96
19) Methyl tert-butyl Ether	3.18	73	185622	17.556	ug/l 97
20) Methylene Chloride	2.85	84	63768	17.020	ug/l 99
21) trans-1,2-Dichloroethene	3.16	96	62183	17.491	ug/l 98
22) Diisopropyl ether	3.84	45	177547	17.772	ug/l 93
23) Vinyl Acetate	3.81	43	719540	86.992	ug/l 98
24) 1,1-Dichloroethane	3.68	63	105158	17.828	ug/l 99
25) 2-Butanone	4.66	43	221743	84.301	ug/l 99
26) 2,2-Dichloropropane	4.57	77	80773	16.126	ug/l 96
27) cis-1,2-Dichloroethene	4.59	96	71707	17.588	ug/l 97
28) Bromochloromethane	5.01	49	49759	18.584	ug/l 92
29) Tetrahydrofuran	5.12	42	143541	85.130	ug/l 99
30) Chloroform	5.20	83	109435	17.101	ug/l 99
31) Cyclohexane	5.57	56	92869	17.928	ug/l 96
32) 1,1,1-Trichloroethane	5.48	97	93350	16.782	ug/l 99
36) 1,1-Dichloropropene	5.79	75	78981	18.621	ug/l 95
37) Ethyl Acetate	4.82	43	83429	18.587	ug/l 99
38) Carbon Tetrachloride	5.78	117	84076	17.490	ug/l 98

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Instrument :
 MSVOA_X
 ClientSampleId :
 VX0823WBS01

Quant Time: Aug 26 01:48:21 2019
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 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	103022	19.600	ug/l	98
40) Benzene	6.13	78	245266	18.693	ug/l	99
41) Methacrylonitrile	5.03	41	46122	17.668	ug/l	98
42) 1,2-Dichloroethane	6.18	62	82472	17.194	ug/l	96
43) Isopropyl Acetate	6.43	43	123223	16.961	ug/l	97
44) Trichloroethene	7.21	130	76626	18.945	ug/l	100
45) 1,2-Dichloropropane	7.51	63	61199	18.556	ug/l	99
46) Dibromomethane	7.65	93	43065	17.711	ug/l	96
47) Bromodichloromethane	7.89	83	79125	18.077	ug/l	97
48) Methyl methacrylate	7.76	41	63799	17.646	ug/l	98
49) 1,4-Dioxane	7.73	88	33323	332.646	ug/l	98
51) 4-Methyl-2-Pentanone	8.63	43	410659	85.785	ug/l	98
52) Toluene	8.78	92	158008	18.609	ug/l	99
53) t-1,3-Dichloropropene	9.04	75	78846	17.159	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	90980	18.150	ug/l	96
55) 1,1,2-Trichloroethane	9.21	97	65915	18.633	ug/l	97
56) Ethyl methacrylate	9.17	69	92570	18.400	ug/l	97
57) 1,3-Dichloropropane	9.37	76	101978	17.853	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.30	63	257346	97.240	ug/l	97
59) 2-Hexanone	9.49	43	322869	87.874	ug/l	98
60) Dibromochloromethane	9.58	129	69603	18.198	ug/l	99
61) 1,2-Dibromoethane	9.66	107	72022	18.974	ug/l	99
64) Tetrachloroethene	9.33	164	79987	20.173	ug/l	100
65) Chlorobenzene	10.13	112	185470	19.114	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	69172	19.027	ug/l	98
67) Ethyl Benzene	10.25	91	306329	18.891	ug/l	98
68) m/p-Xylenes	10.35	106	241768	38.668	ug/l	99
69) o-Xylene	10.69	106	116802	19.027	ug/l	97
70) Styrene	10.71	104	199174	19.396	ug/l	96
71) Bromoform	10.85	173	56007	17.858	ug/l #	98
73) Isopropylbenzene	11.01	105	312178	18.906	ug/l	99
74) N-amyl acetate	10.90	43	109571	17.140	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.26	83	96352	17.629	ug/l	97
76) 1,2,3-Trichloropropane	11.29	75	103096	21.443	ug/l	85
77) Bromobenzene	11.25	156	92491	19.000	ug/l	95
78) n-propylbenzene	11.35	91	340998	19.313	ug/l	99
79) 2-Chlorotoluene	11.42	91	203492	18.525	ug/l	98
80) 1,3,5-Trimethylbenzene	11.50	105	266228	19.324	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.07	75	26360	16.535	ug/l	94
82) 4-Chlorotoluene	11.51	91	233870	18.471	ug/l	97
83) tert-Butylbenzene	11.77	119	265227	19.513	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	263471	18.938	ug/l	99
85) sec-Butylbenzene	11.94	105	301584	19.396	ug/l	98
86) p-Isopropyltoluene	12.06	119	290280	19.404	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	161220	19.233	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	160517	18.926	ug/l	99
89) n-Butylbenzene	12.38	91	227115	18.339	ug/l	98
90) Hexachloroethane	12.59	117	42734	18.387	ug/l	93
91) 1,2-Dichlorobenzene	12.39	146	158966	18.802	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	20337	16.008	ug/l	94

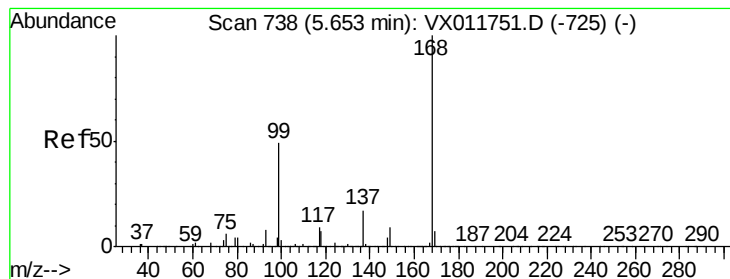
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
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MSVOA_X
ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	111635	17.950	ug/l	99
94) Hexachlorobutadiene	13.78	225	65190	19.129	ug/l	99
95) Naphthalene	13.83	128	305888	17.858	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	116730	18.693	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.01 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

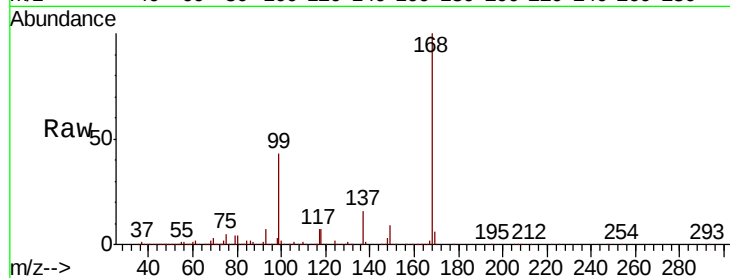
VX0823WBS01

Tgt Ion:168 Resp: 419360

Ion Ratio Lower Upper

168 100

99 43.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

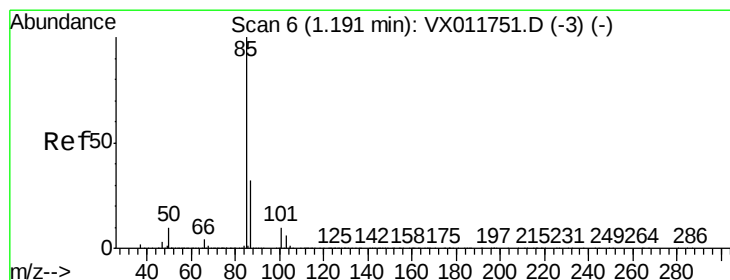
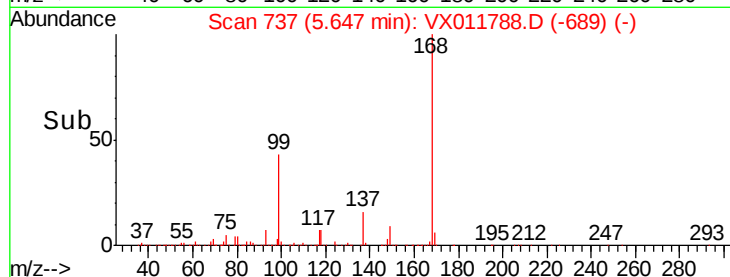
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50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.313 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.00 min

Lab File: VX011788.D

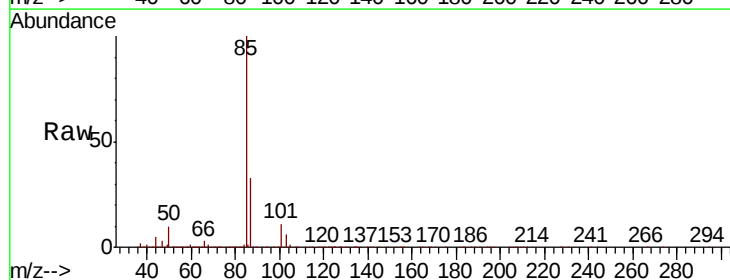
Acq: 23 Aug 2019 11:22

Tgt Ion: 85 Resp: 71674

Ion Ratio Lower Upper

85 100

87 32.6 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

80000

60000

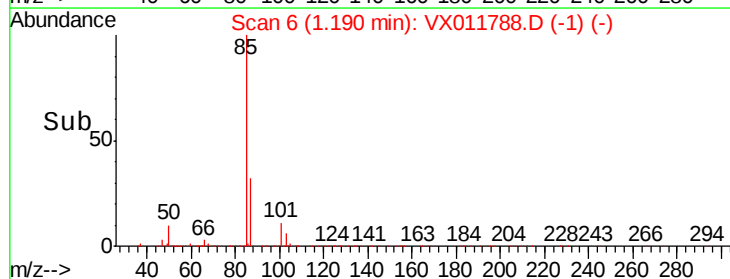
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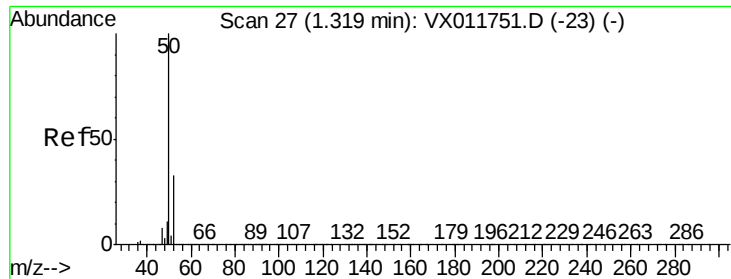
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1.15 1.20 1.25

Time-->

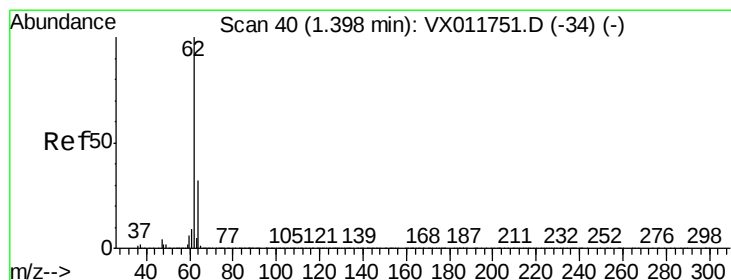
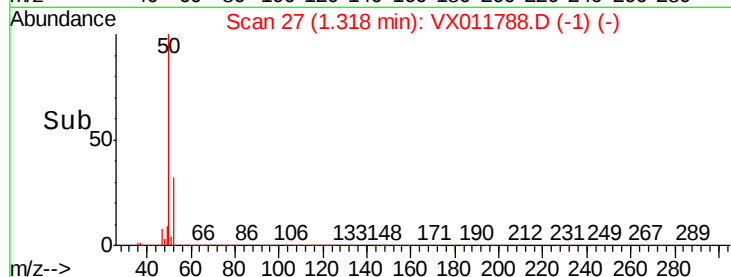
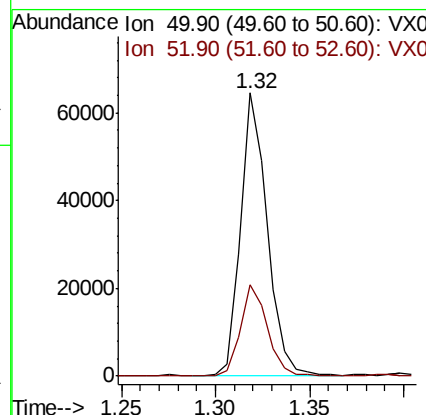
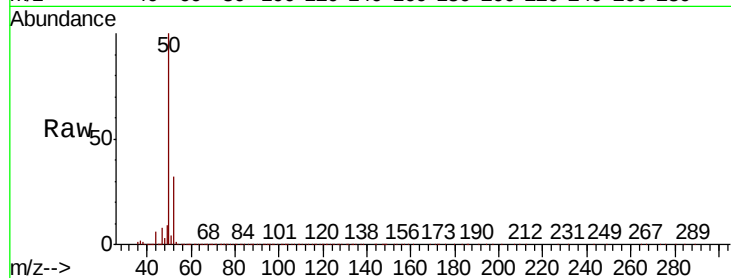




#3
Chloromethane
Concen: 18.495 ug/l
RT: 1.32 min Scan# 27
Delta R.T. -0.00 min
Lab File: VX011788.D
Acq: 23 Aug 2019 11:22

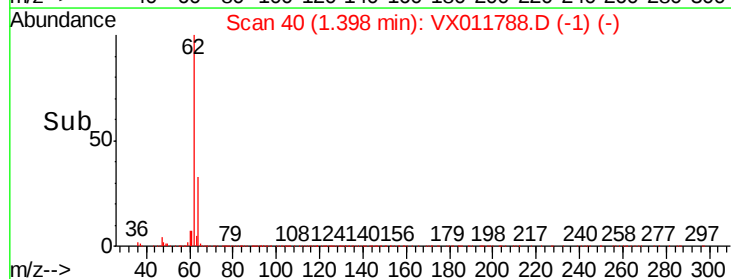
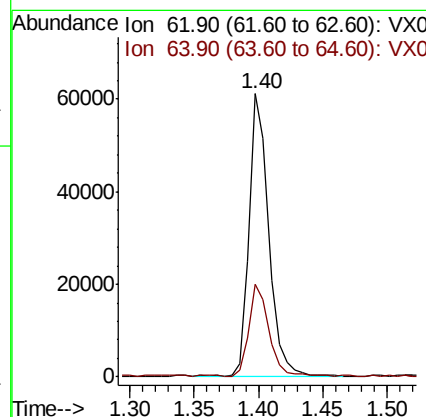
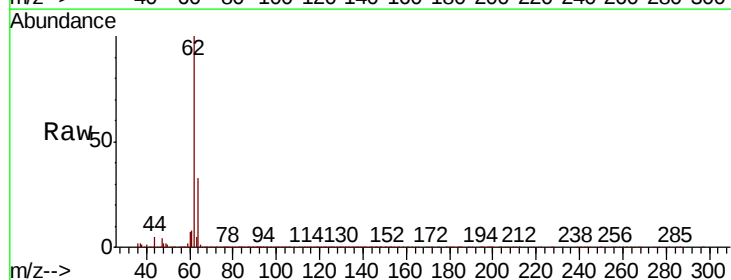
Instrument :
MSVOA_X
ClientSampleId :
VX0823WBS01

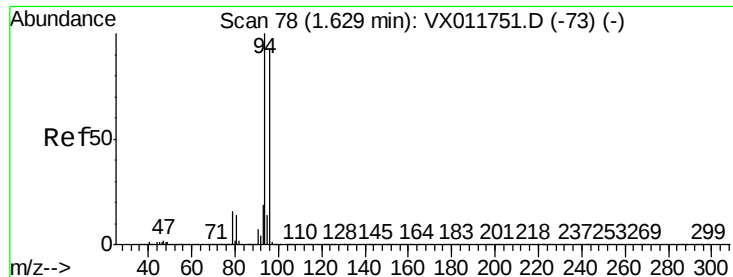
Tgt Ion: 50 Resp: 63480
Ion Ratio Lower Upper
50 100
52 32.0 26.6 39.8



#4
Vinyl Chloride
Concen: 18.838 ug/l
RT: 1.40 min Scan# 40
Delta R.T. -0.00 min
Lab File: VX011788.D
Acq: 23 Aug 2019 11:22

Tgt Ion: 62 Resp: 64636
Ion Ratio Lower Upper
62 100
64 32.4 25.5 38.3





#5

Bromomethane

Concen: 20.997 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

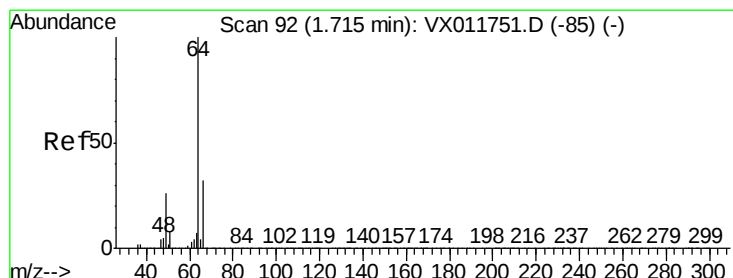
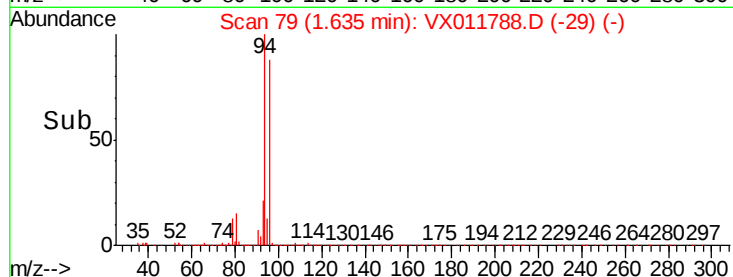
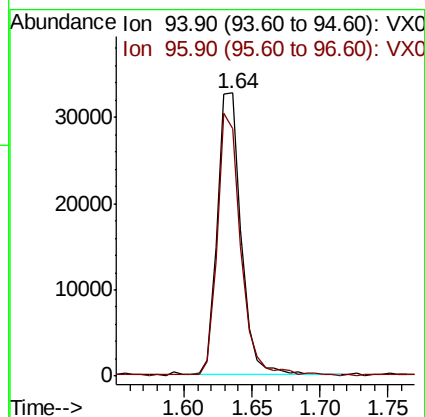
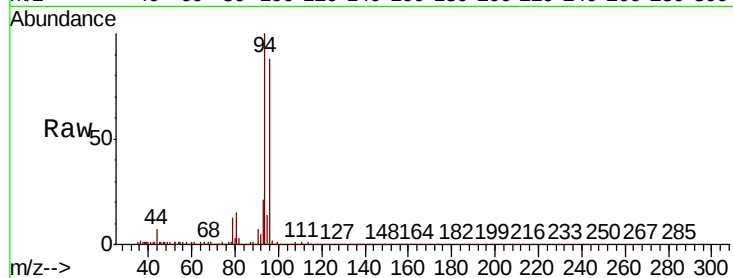
VX0823WBS01

Tgt Ion: 94 Resp: 39688

Ion Ratio Lower Upper

94 100

96 87.6 74.1 111.1



#6

Chloroethane

Concen: 19.482 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX011788.D

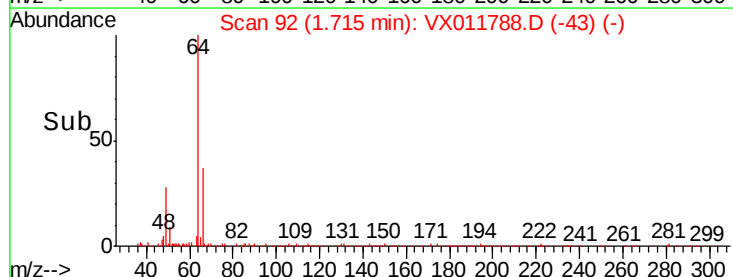
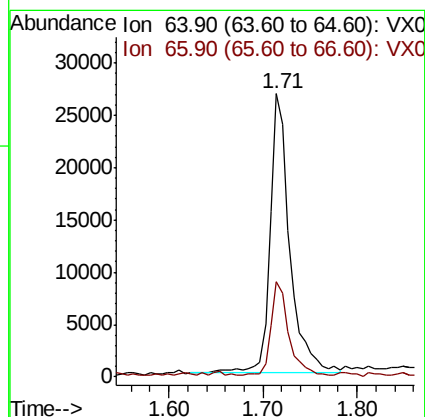
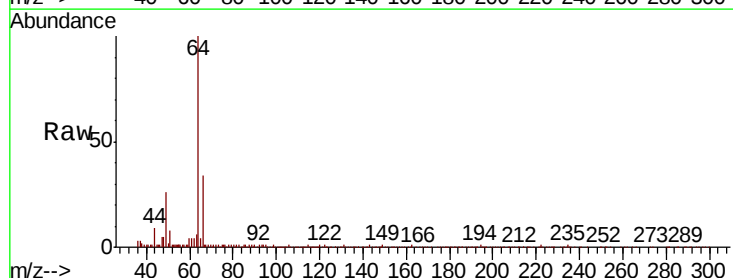
Acq: 23 Aug 2019 11:22

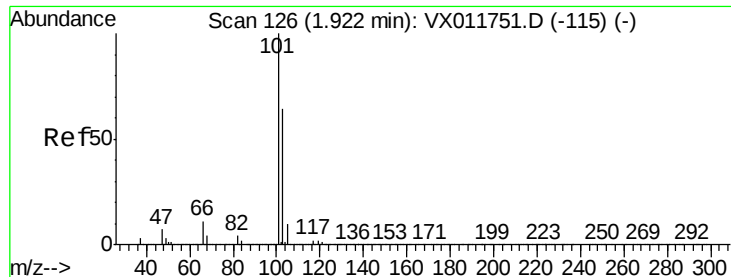
Tgt Ion: 64 Resp: 39082

Ion Ratio Lower Upper

64 100

66 33.2 24.9 37.3



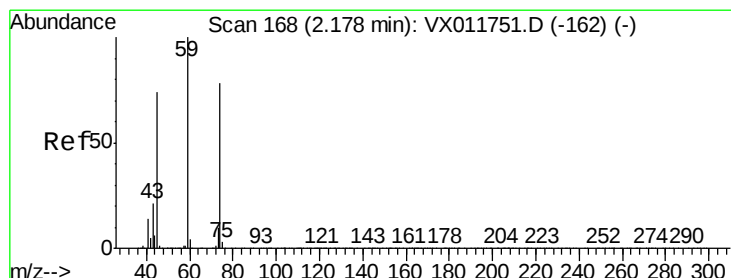
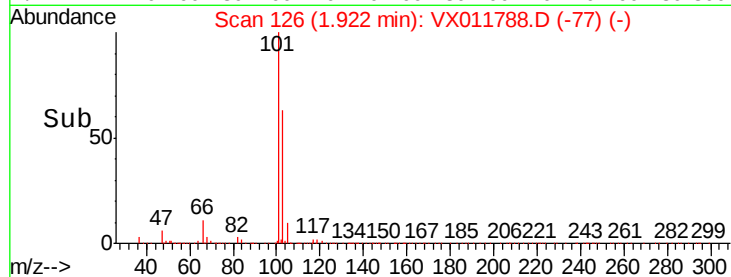
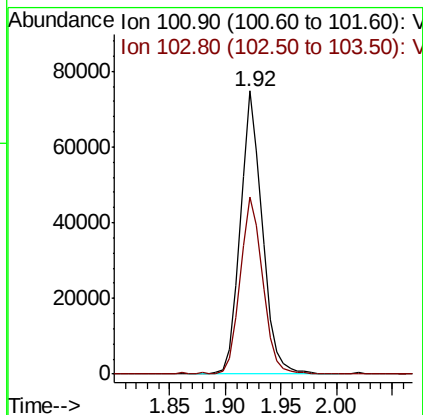
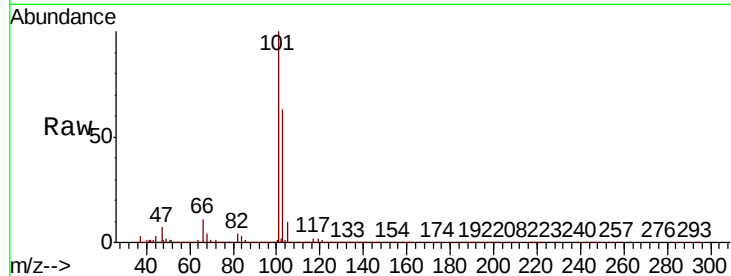


#7

Trichlorofluoromethane
 Concen: 18.554 ug/l
 RT: 1.92 min Scan# 126
 Delta R.T. -0.00 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0823WBS01

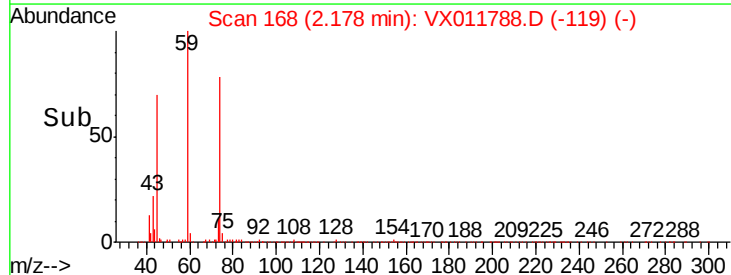
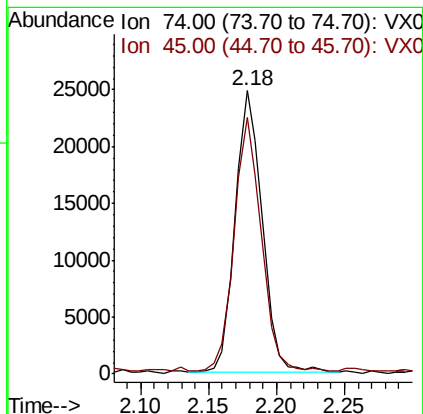
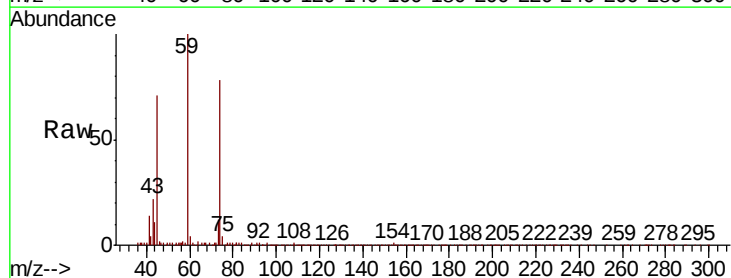
Tgt Ion: 101 Resp: 101357
 Ion Ratio Lower Upper
 101 100
 103 62.8 51.2 76.8

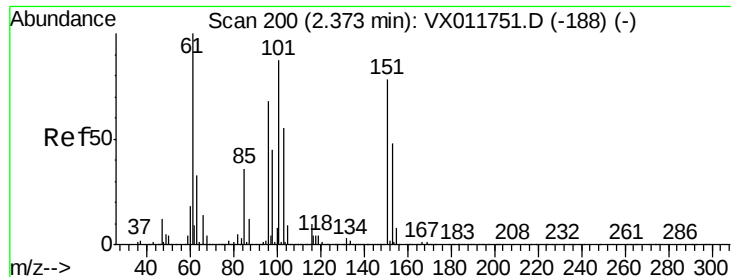


#8

Diethyl Ether
 Concen: 18.428 ug/l
 RT: 2.18 min Scan# 168
 Delta R.T. -0.00 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Tgt Ion: 74 Resp: 34230
 Ion Ratio Lower Upper
 74 100
 45 90.1 46.7 140.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.615 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

VX0823WBS01

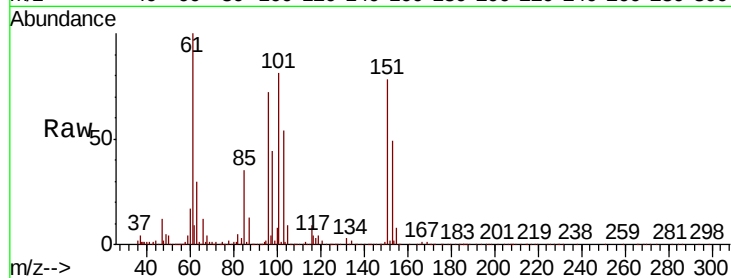
Tgt Ion:101 Resp: 59546

Ion Ratio Lower Upper

101 100

85 43.5 33.7 50.5

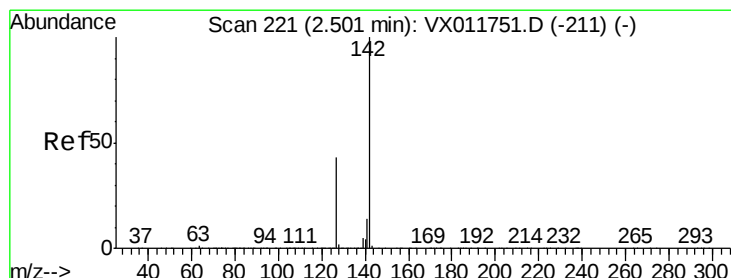
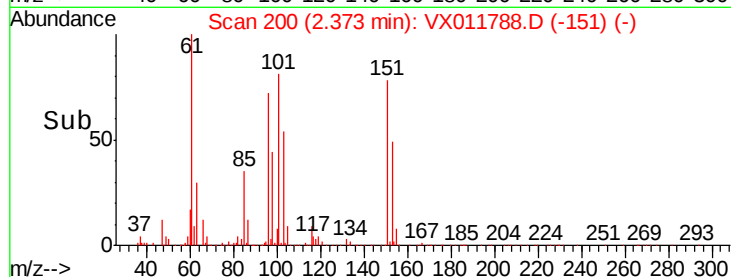
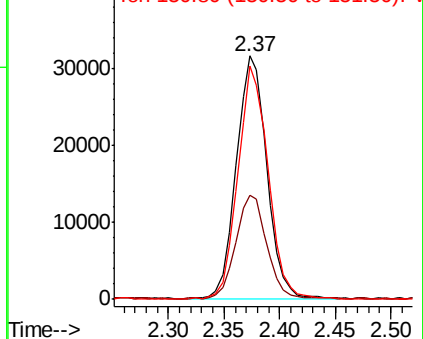
151 96.0 71.4 107.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.364 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

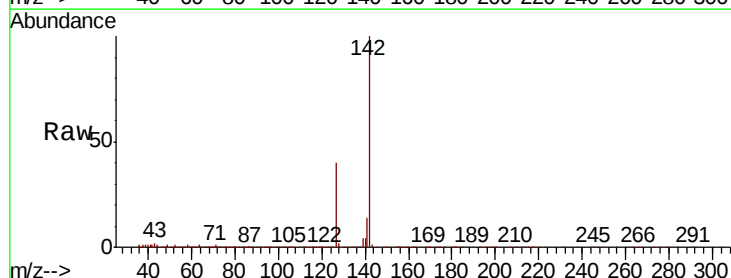
Tgt Ion:142 Resp: 71693

Ion Ratio Lower Upper

142 100

127 41.3 33.5 50.3

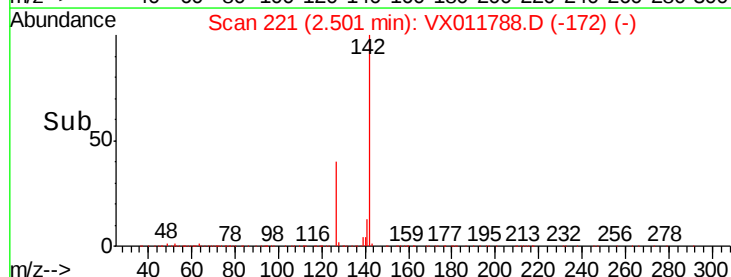
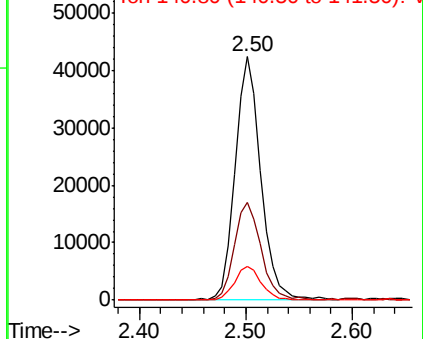
141 14.7 11.4 17.2

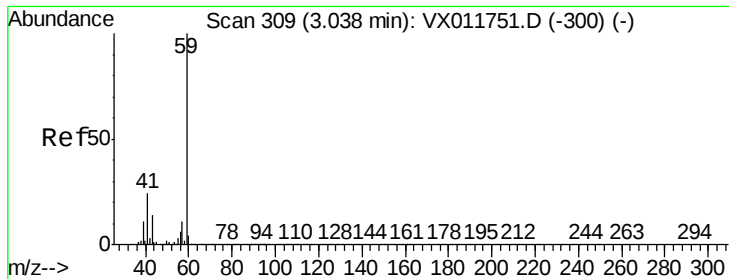


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



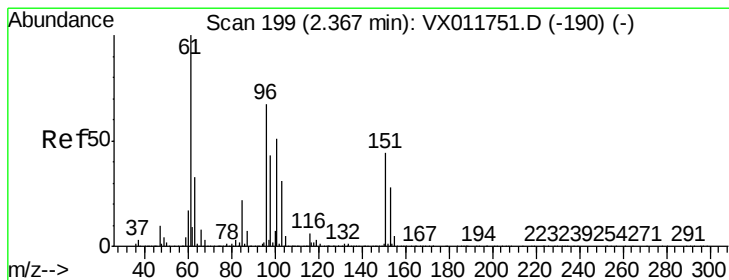
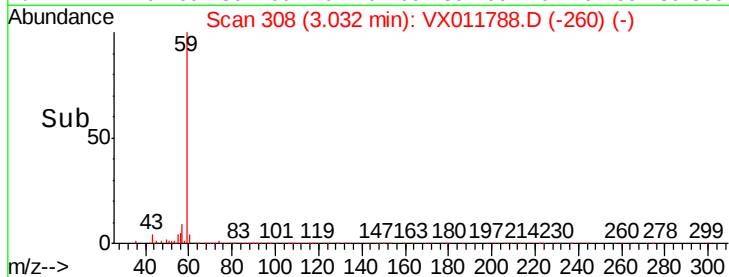
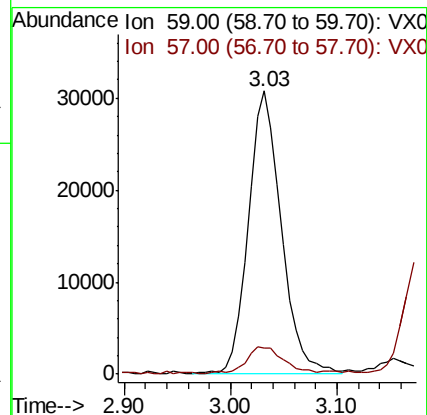
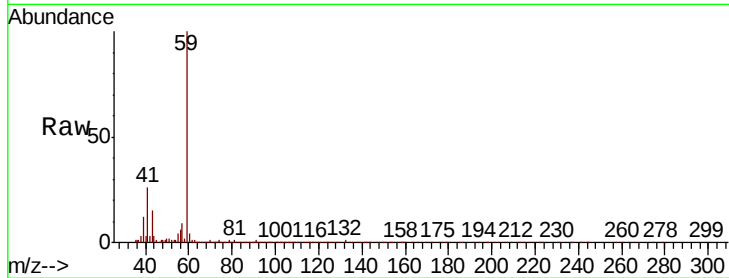


#11

Tert butyl alcohol
 Concen: 79.397 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.01 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0823WBS01

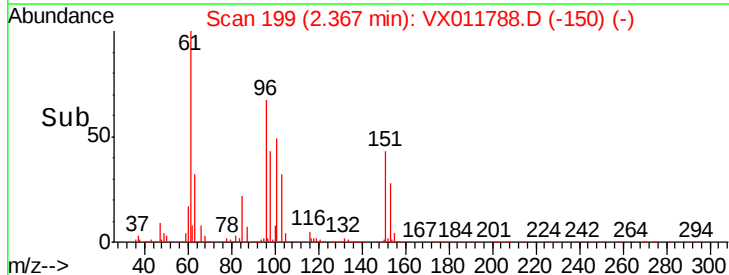
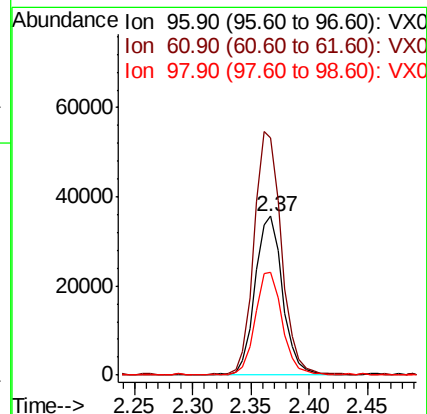
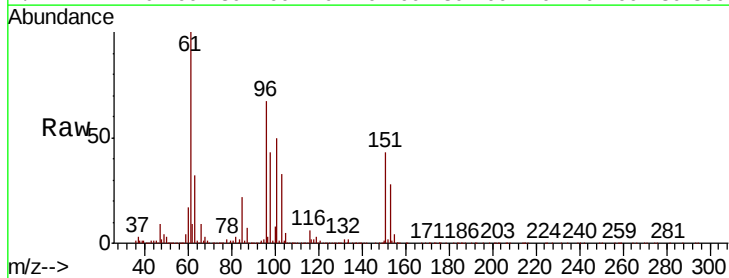
Tgt Ion: 59 Resp: 66094
 Ion Ratio Lower Upper
 59 100
 57 11.5 8.4 12.6

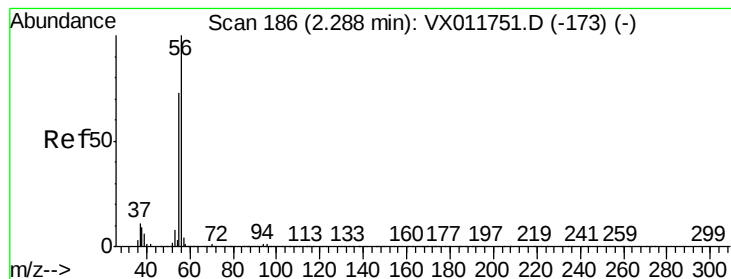


#12

1,1-Dichloroethene
 Concen: 17.804 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Tgt Ion: 96 Resp: 58685
 Ion Ratio Lower Upper
 96 100
 61 148.8 119.4 179.2
 98 64.7 51.2 76.8





#13

Acrolein

Concen: 85.258 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

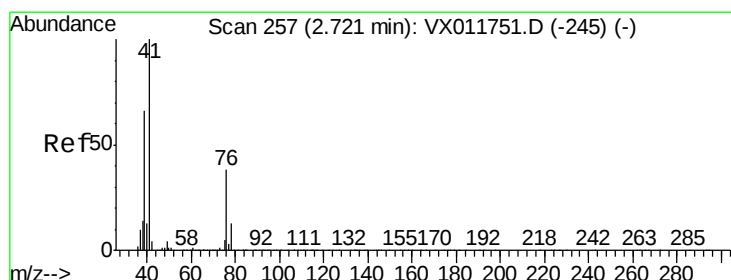
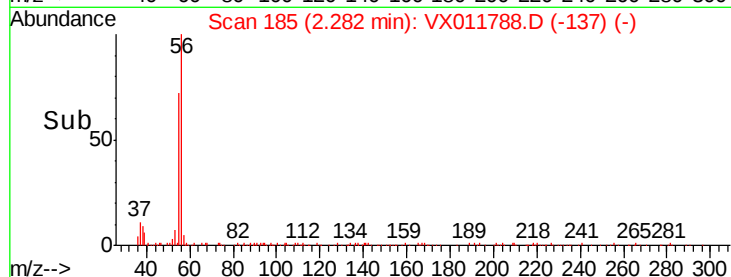
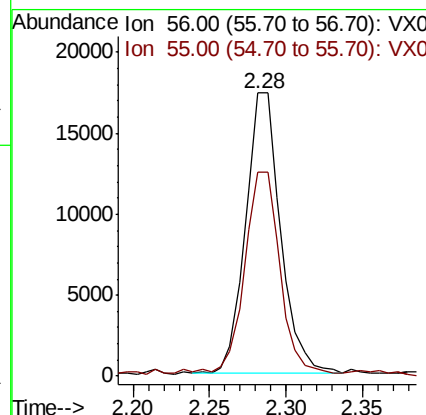
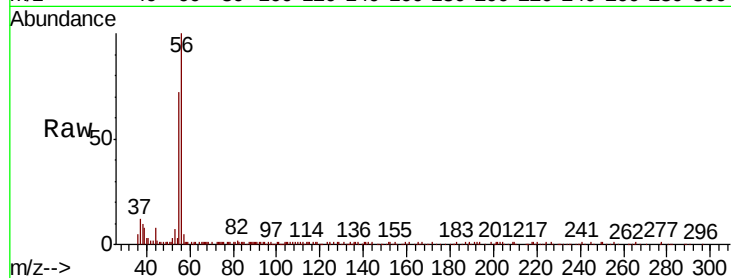
VX0823WBS01

Tgt Ion: 56 Resp: 27435

Ion Ratio Lower Upper

56 100

55 72.5 54.8 82.2



#14

Allyl chloride

Concen: 16.993 ug/l

RT: 2.72 min Scan# 257

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

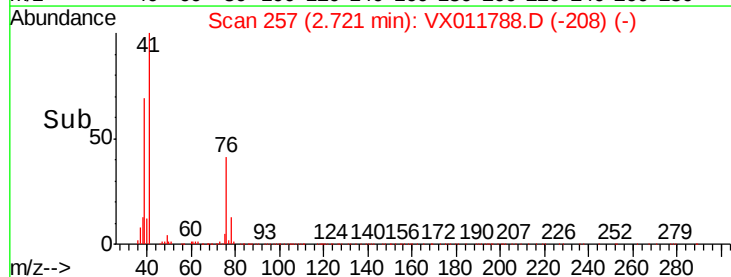
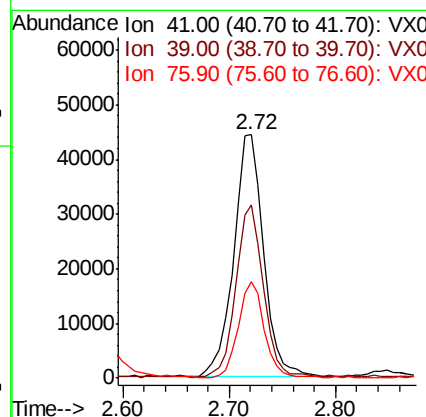
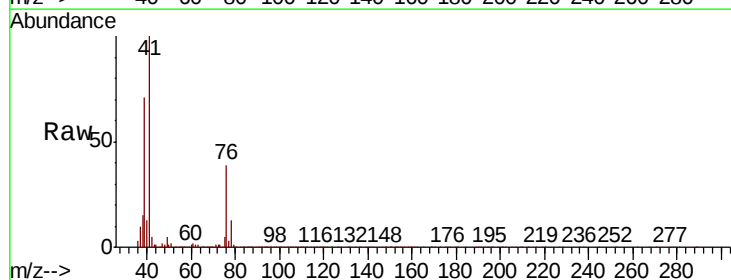
Tgt Ion: 41 Resp: 87543

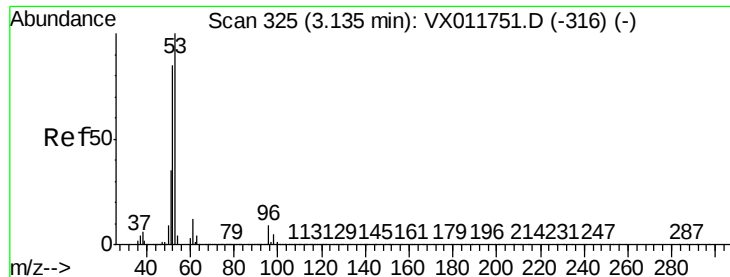
Ion Ratio Lower Upper

41 100

39 66.7 49.3 73.9

76 34.0 26.8 40.2





#15

Acrylonitrile

Concen: 84.038 ug/l

RT: 3.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

VX0823WBS01

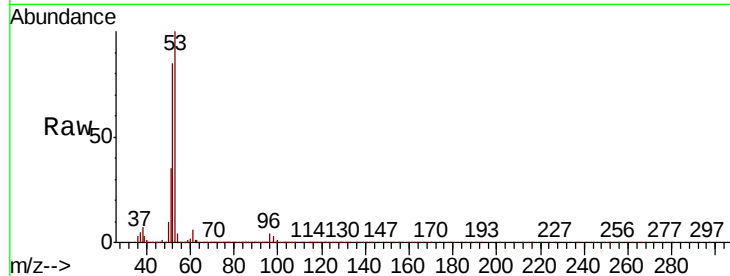
Tgt Ion: 53 Resp: 160012

Ion Ratio Lower Upper

53 100

52 83.7 65.7 98.5

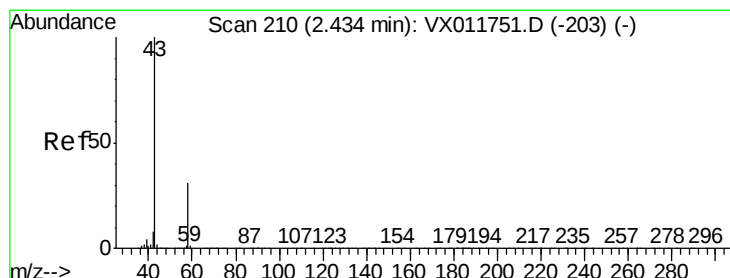
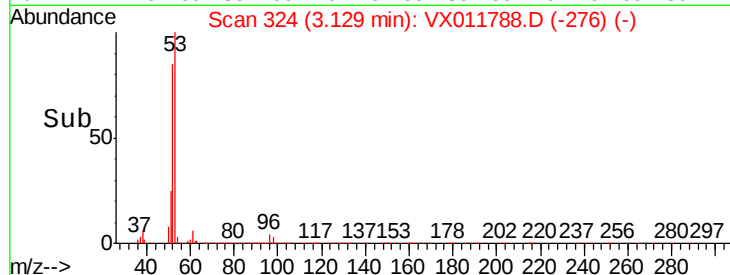
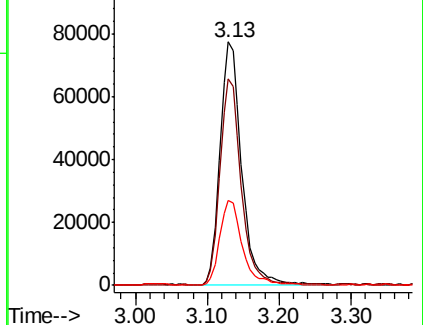
51 36.4 28.6 43.0



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 76.541 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011788.D

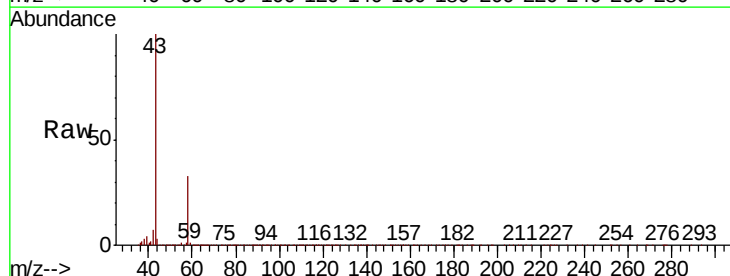
Acq: 23 Aug 2019 11:22

Tgt Ion: 43 Resp: 140265

Ion Ratio Lower Upper

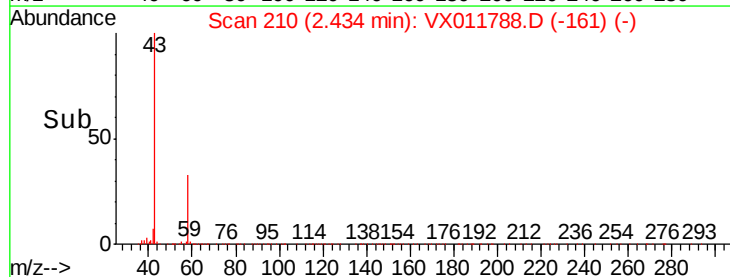
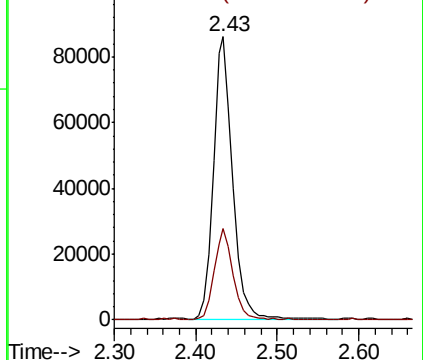
43 100

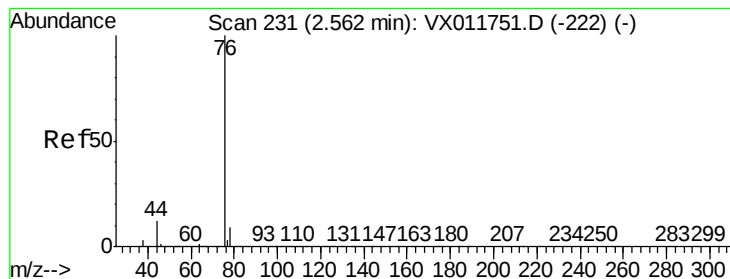
58 32.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 16.902 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

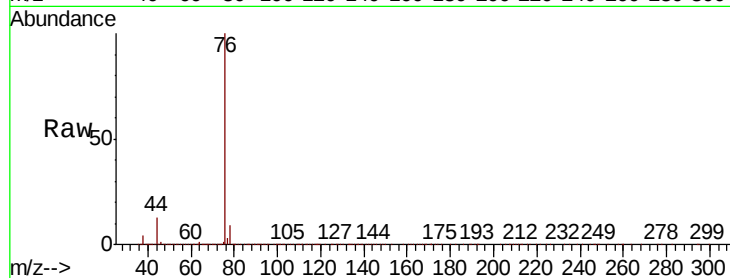
VX0823WBS01

Tgt Ion: 76 Resp: 140861

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX011751.D (-222) (-)

Ion 77.90 (77.60 to 78.60): VX011751.D (-222) (-)

2.56

80000

60000

40000

20000

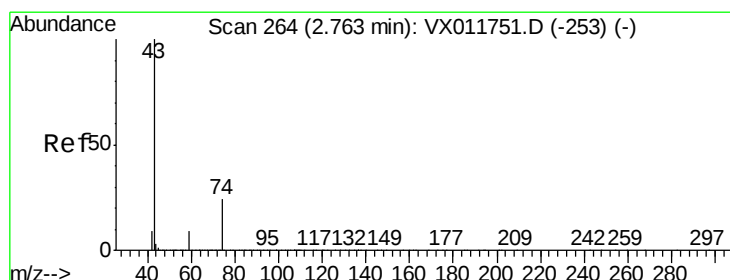
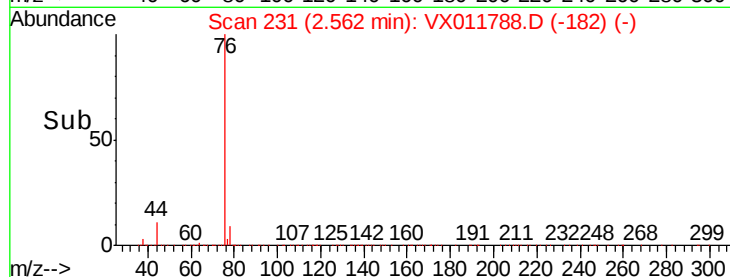
0

Time-->

2.50

2.60

2.70



#18

Methyl Acetate

Concen: 18.150 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX011788.D

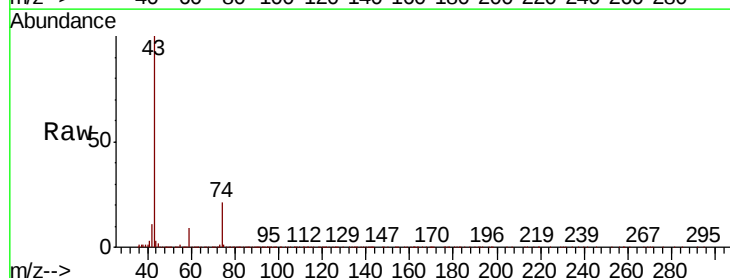
Acq: 23 Aug 2019 11:22

Tgt Ion: 43 Resp: 90253

Ion Ratio Lower Upper

43 100

74 22.2 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VX011751.D (-253) (-)

Ion 74.00 (73.70 to 74.70): VX011751.D (-253) (-)

2.76

60000

50000

40000

30000

20000

10000

0

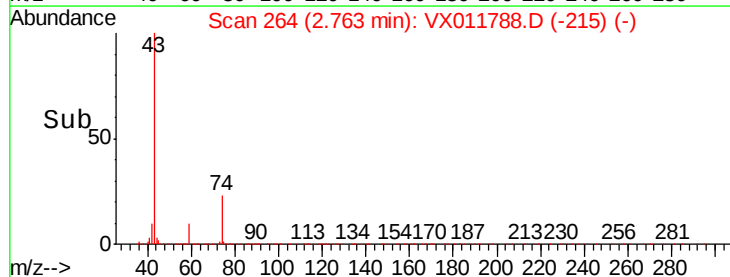
Time-->

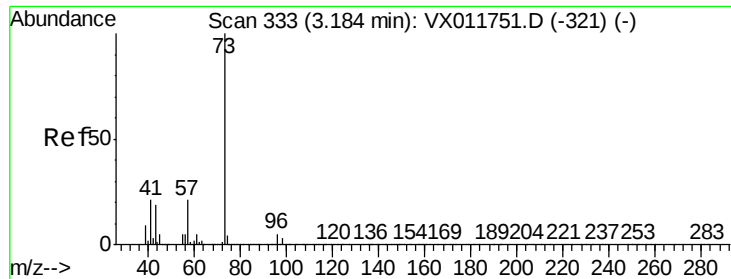
2.60

2.70

2.80

2.90



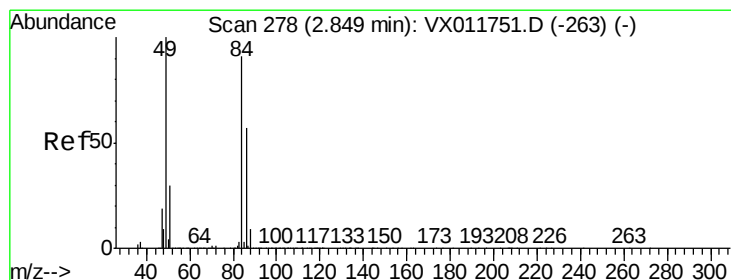
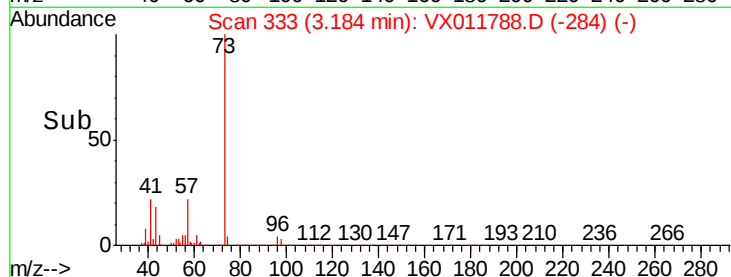
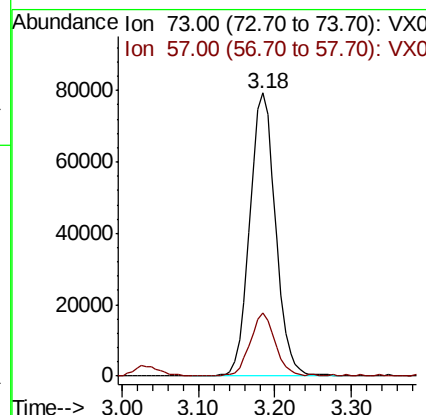
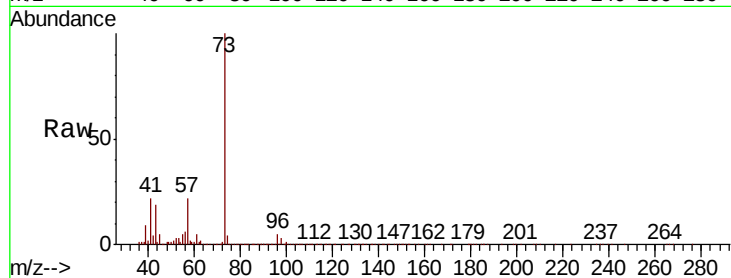


#19

Methyl tert-butyl Ether
 Concen: 17.556 ug/l
 RT: 3.18 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0823WBS01

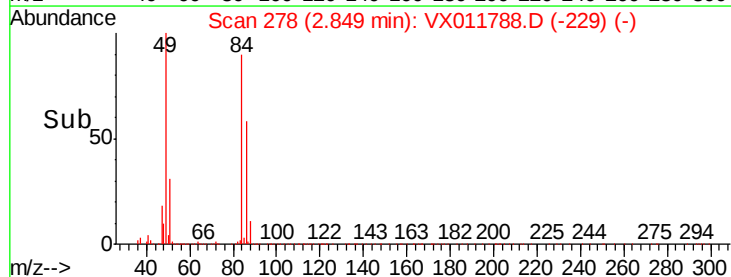
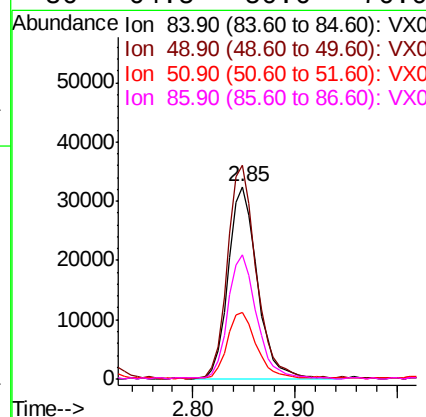
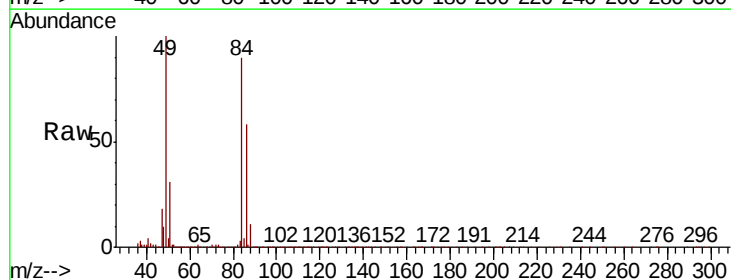
Tgt Ion: 73 Resp: 185622
 Ion Ratio Lower Upper
 73 100
 57 22.1 16.4 24.6

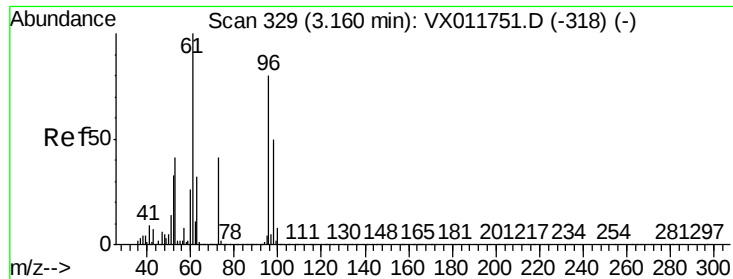


#20

Methylene Chloride
 Concen: 17.020 ug/l
 RT: 2.85 min Scan# 278
 Delta R.T. -0.00 min
 Lab File: VX011788.D
 Acq: 23 Aug 2019 11:22

Tgt Ion: 84 Resp: 63768
 Ion Ratio Lower Upper
 84 100
 49 111.4 88.3 132.5
 51 34.2 26.2 39.2
 86 64.5 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 17.491 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

VX0823WBS01

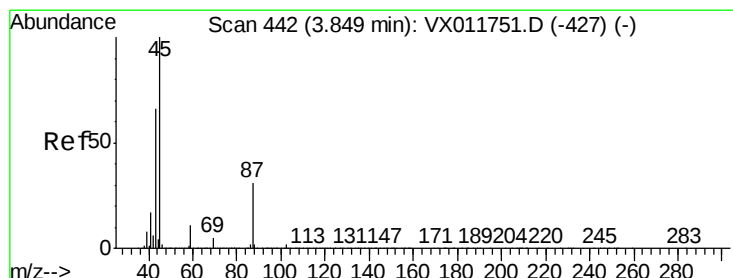
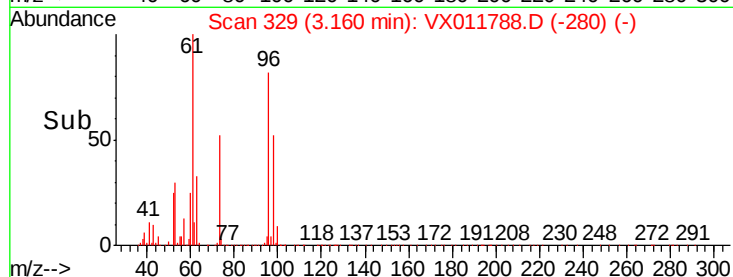
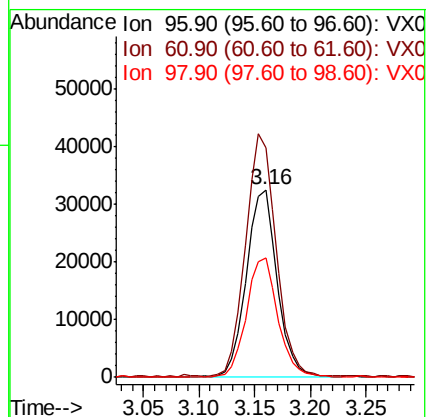
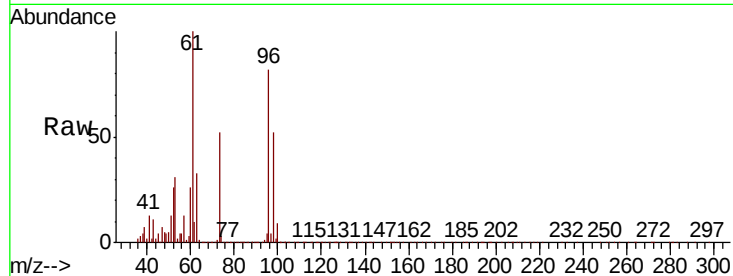
Tgt Ion: 96 Resp: 62183

Ion Ratio Lower Upper

96 100

61 121.6 99.8 149.8

98 63.3 50.3 75.5



#22

Diisopropyl ether

Concen: 17.772 ug/l

RT: 3.84 min Scan# 441

Delta R.T. -0.01 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Tgt Ion: 45 Resp: 177547

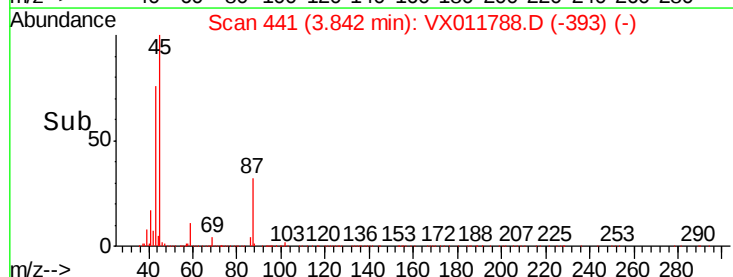
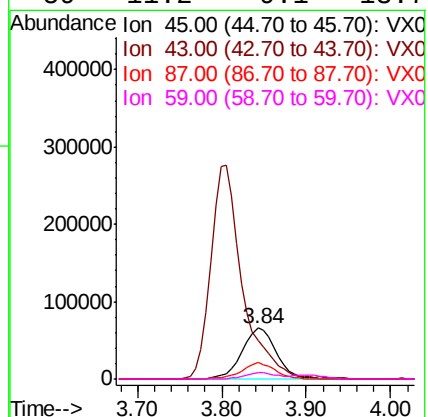
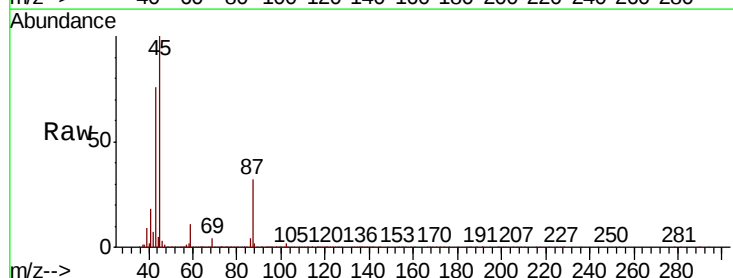
Ion Ratio Lower Upper

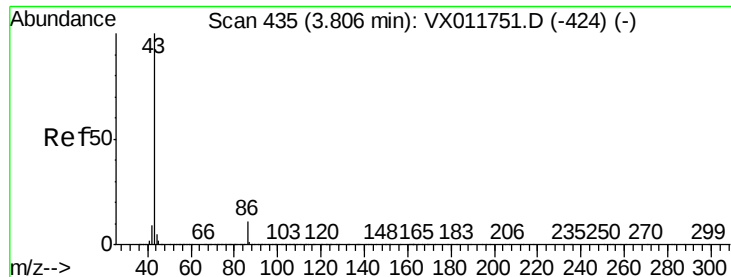
45 100

43 74.9 53.0 79.6

87 31.7 24.7 37.1

59 11.2 9.1 13.7





#23

Vinyl Acetate

Concen: 86.992 ug/l

RT: 3.81 min Scan# 435

Delta R.T. -0.00 min

Lab File: VX011788.D

Acq: 23 Aug 2019 11:22

Instrument :

MSVOA_X

ClientSampleId :

VX0823WBS01

Tgt Ion: 43 Resp: 719540

Ion Ratio Lower Upper

43 100

86 10.7 9.2 13.8

