

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082719\
 Data File : VX011860.D
 Acq On : 27 Aug 2019 19:11
 Operator : JC/SP
 Sample : K4506-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-COMP

Quant Time: Aug 28 02:25:18 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	423156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	576134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	511576	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	247620	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	212488	49.99	ug/l	0.00
Spiked Amount			Recovery	=	99.98%	
35) Dibromofluoromethane	5.49	113	181422	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
50) Toluene-d8	8.71	98	661196	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	
62) 4-Bromofluorobenzene	11.13	95	240234	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

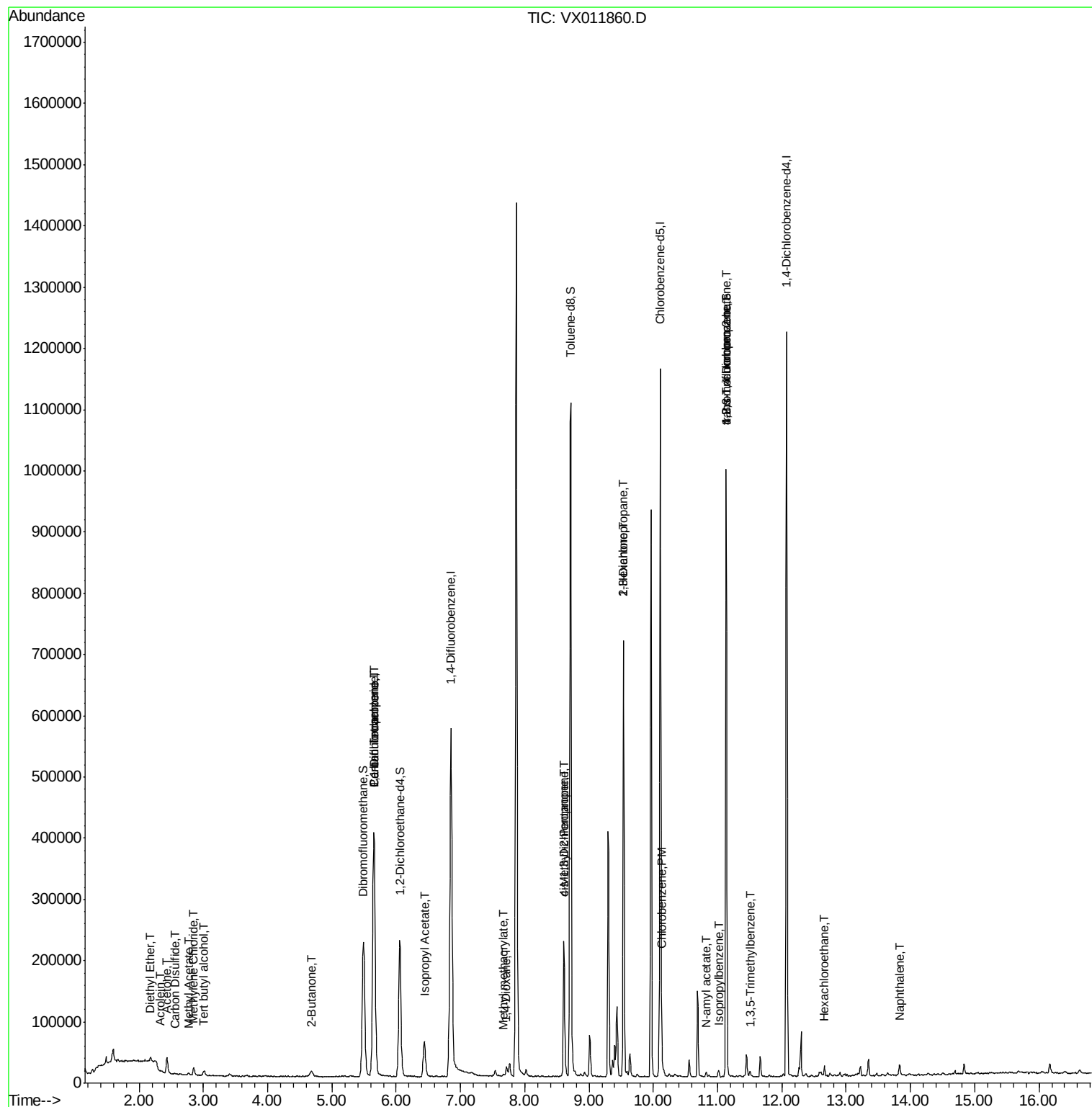
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.18	74	1982	1.057	ug/l	98
11) Tert butyl alcohol	3.01	59	5624	6.695	ug/l #	85
13) Acrolein	2.33	56	93	0.286	ug/l	98
16) Acetone	2.43	43	27620	14.937	ug/l	99
17) Carbon Disulfide	2.56	76	2055	0.244	ug/l #	91
18) Methyl Acetate	2.77	43	4677	0.932	ug/l #	81
20) Methylene Chloride	2.85	84	5548	1.468	ug/l	96
25) 2-Butanone	4.67	43	7654	2.884	ug/l	97
36) 1,1-Dichloropropene	5.65	75	26256	5.812	ug/l #	50
38) Carbon Tetrachloride	5.65	117	37073	7.241	ug/l #	16
43) Isopropyl Acetate	6.44	43	84864	10.967	ug/l	98
48) Methyl methacrylate	7.67	41	5664	1.471	ug/l #	14
49) 1,4-Dioxane	7.71	88	22	0.206	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	78386	15.373	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	35694	6.685	ug/l #	59
57) 1,3-Dichloropropane	9.54	76	6286	1.033	ug/l #	45
59) 2-Hexanone	9.54	43	84517	21.596	ug/l #	50
65) Chlorobenzene	10.13	112	7388	0.740	ug/l	96
73) Isopropylbenzene	11.02	105	5709	0.383	ug/l	98
74) N-amyl acetate	10.82	43	4162	0.720	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	118550	27.284	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	3470	0.279	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	118550	82.284	ug/l #	11
90) Hexachloroethane	12.66	117	705	0.336	ug/l #	1
95) Naphthalene	13.83	128	11168	0.721	ug/l	96

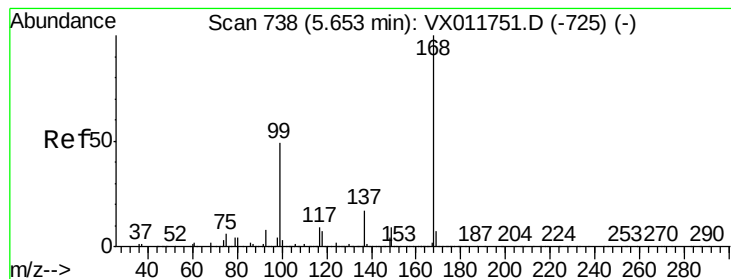
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

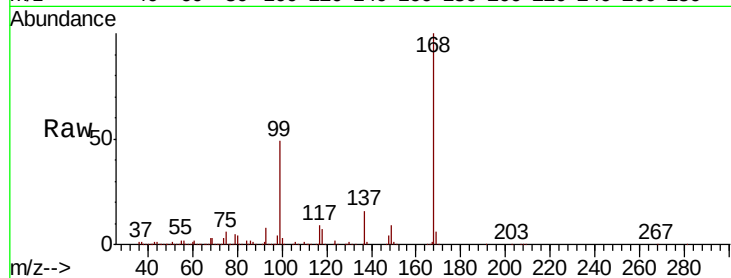
RO-COMP

Tgt Ion:168 Resp: 423156

Ion Ratio Lower Upper

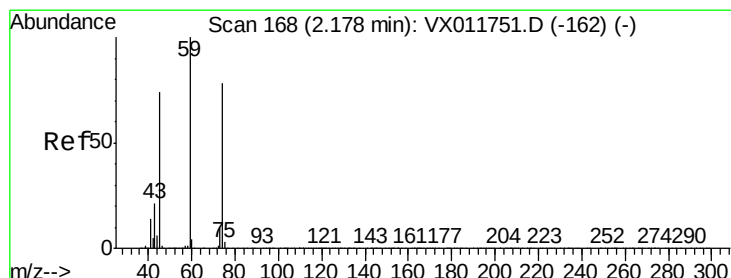
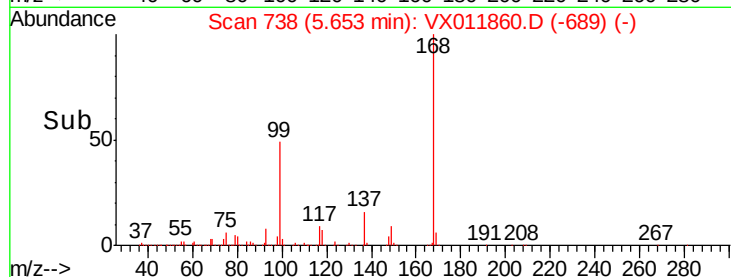
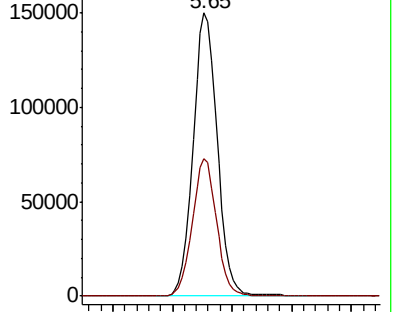
168 100

99 48.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 1.057 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011860.D

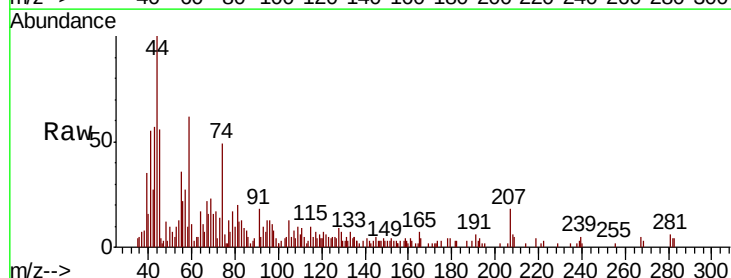
Acq: 27 Aug 2019 19:11

Tgt Ion: 74 Resp: 1982

Ion Ratio Lower Upper

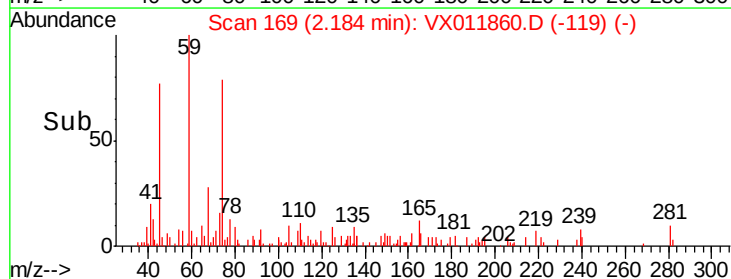
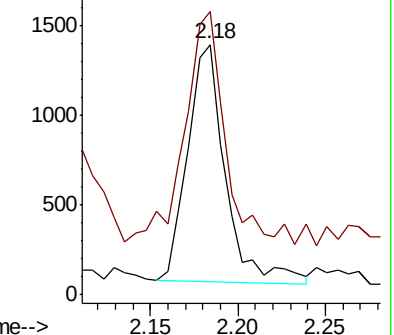
74 100

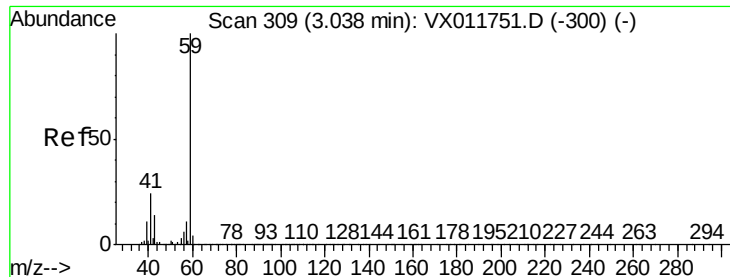
45 95.4 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



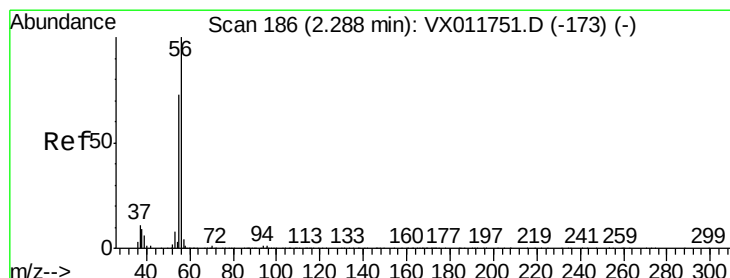
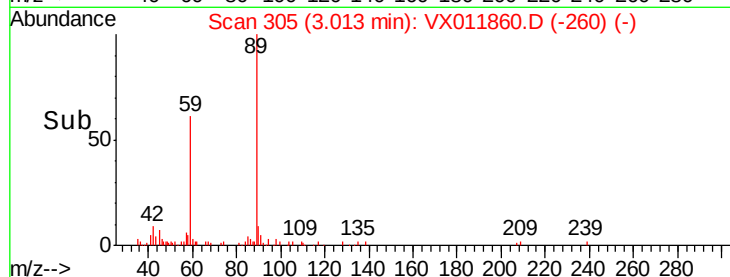
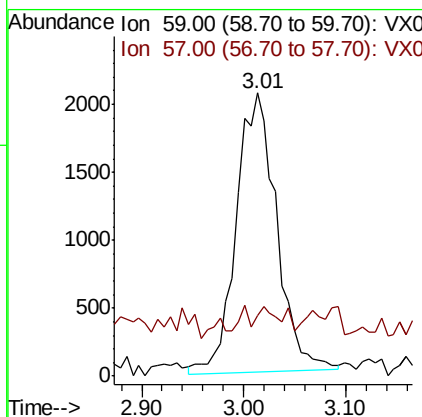
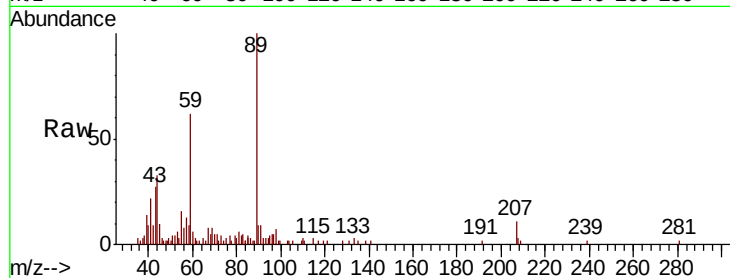


#11

Tert butyl alcohol
Concen: 6.695 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

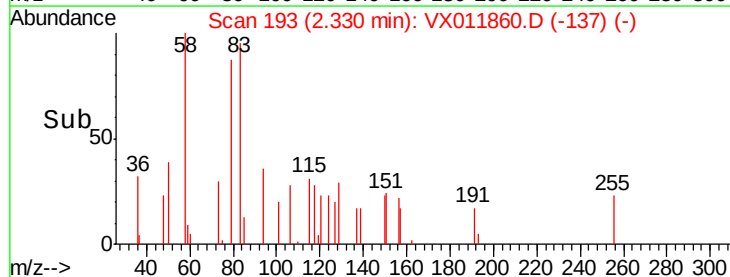
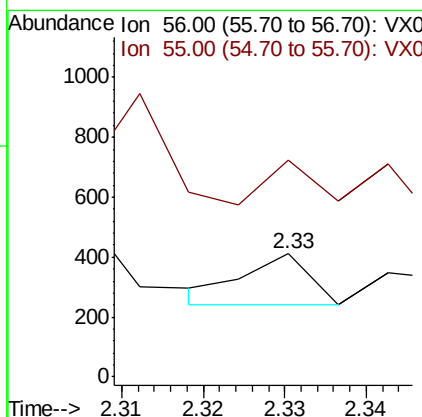
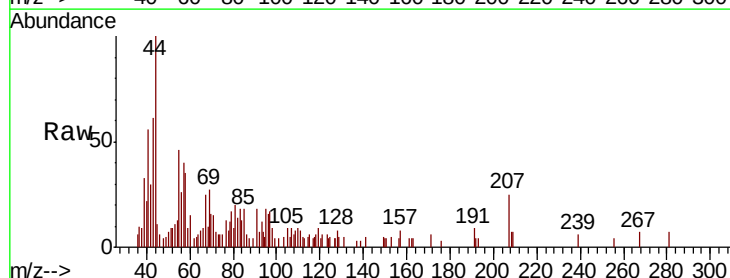
Tgt Ion: 59 Resp: 5624
Ion Ratio Lower Upper
59 100
57 4.9 8.4 12.6#

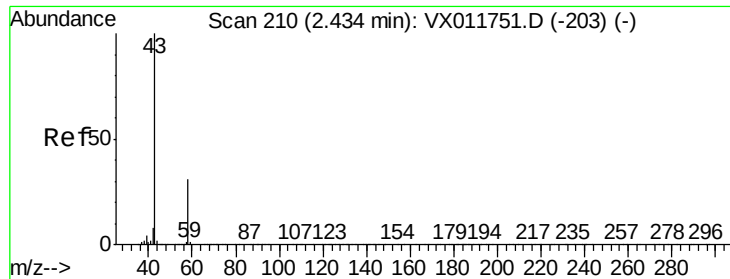


#13

Acrolein
Concen: 0.286 ug/l
RT: 2.33 min Scan# 193
Delta R.T. 0.04 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Tgt Ion: 56 Resp: 93
Ion Ratio Lower Upper
56 100
55 66.7 54.8 82.2





#16

Acetone

Concen: 14.937 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

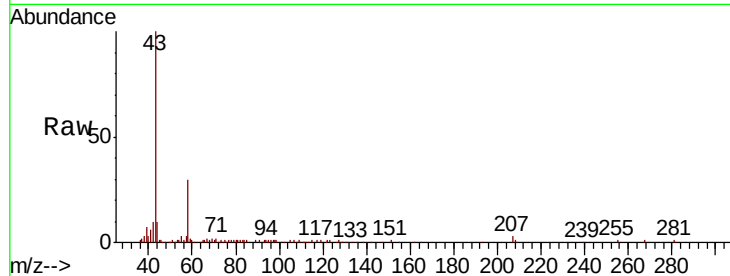
RO-COMP

Tgt Ion: 43 Resp: 27620

Ion Ratio Lower Upper

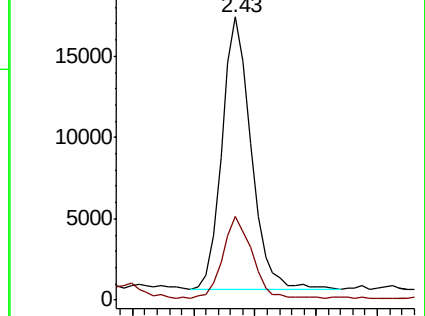
43 100

58 30.0 24.4 36.6

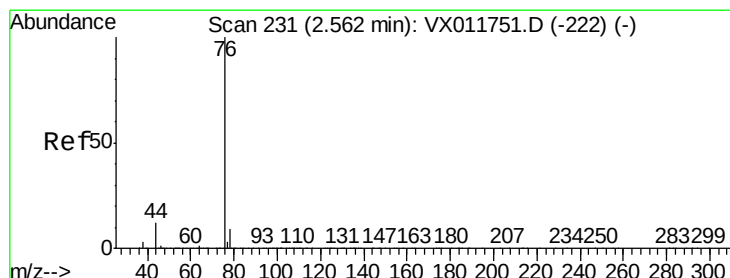
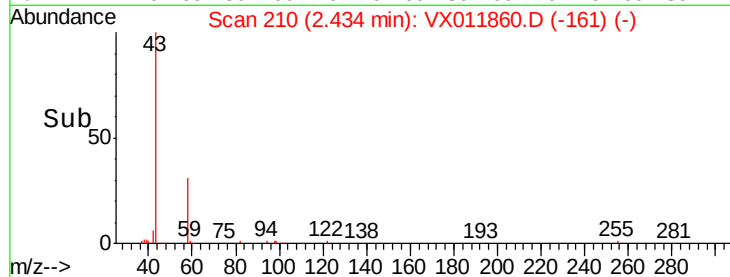


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 0.244 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011860.D

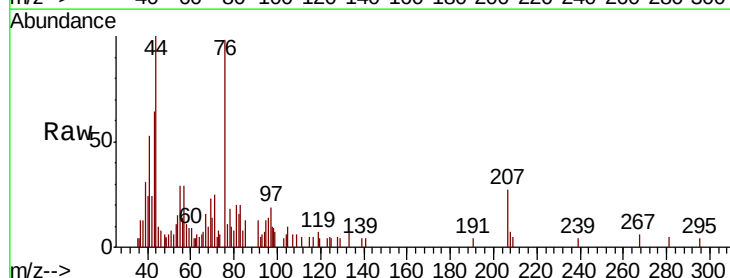
Acq: 27 Aug 2019 19:11

Tgt Ion: 76 Resp: 2055

Ion Ratio Lower Upper

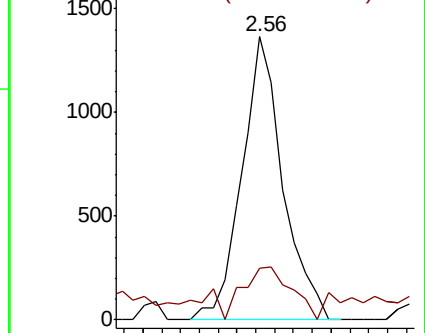
76 100

78 12.6 7.4 11.0#

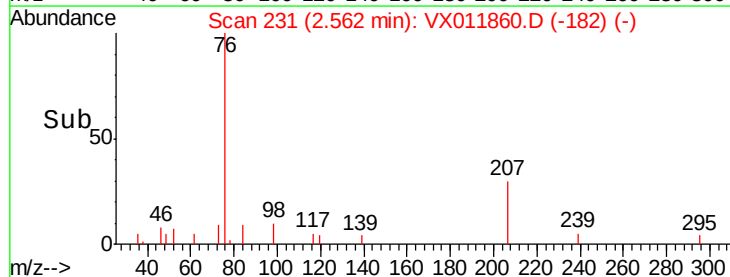


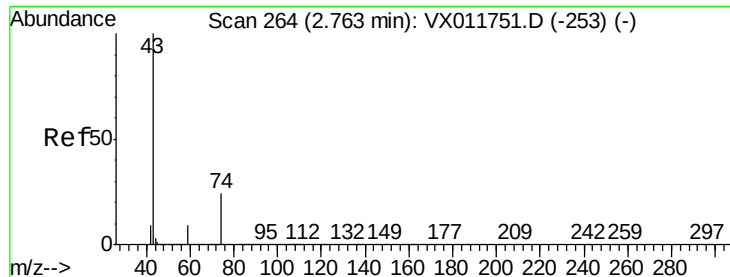
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->

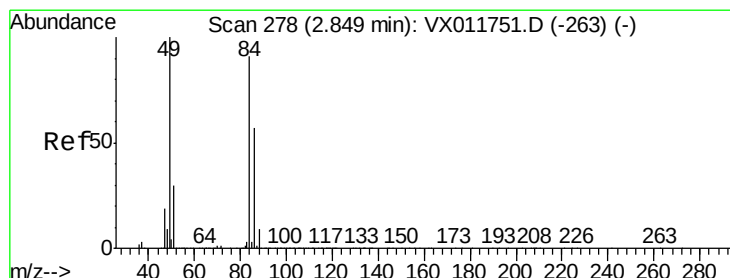
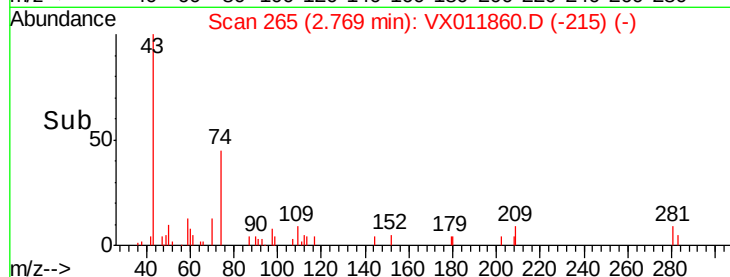
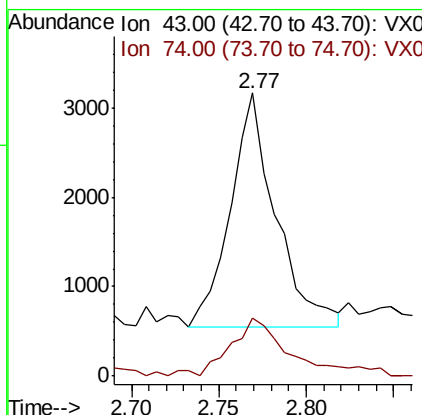
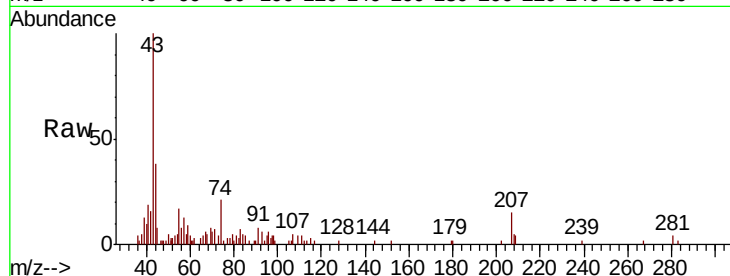




#18
Methyl Acetate
Concen: 0.932 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

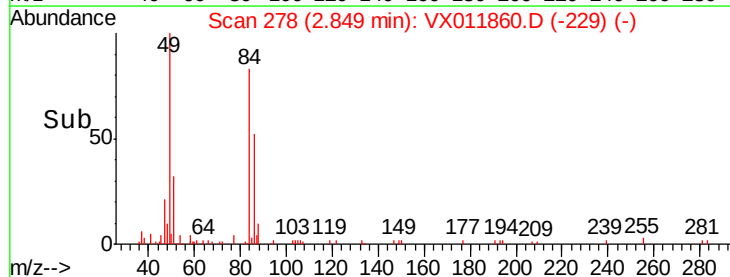
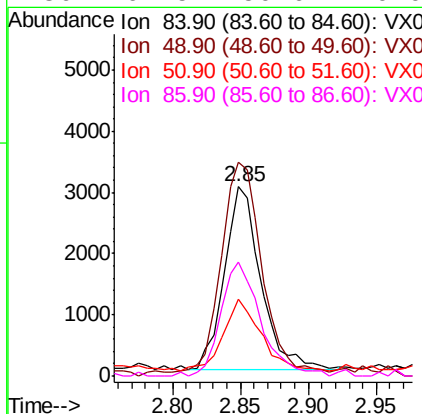
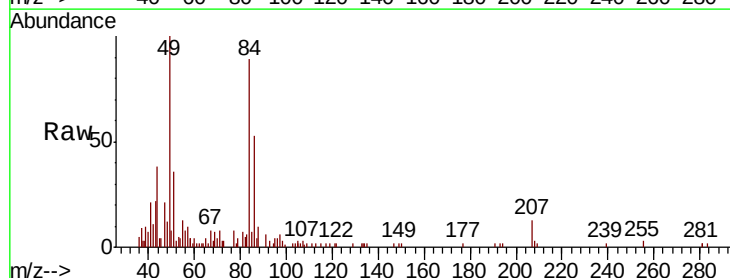
Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

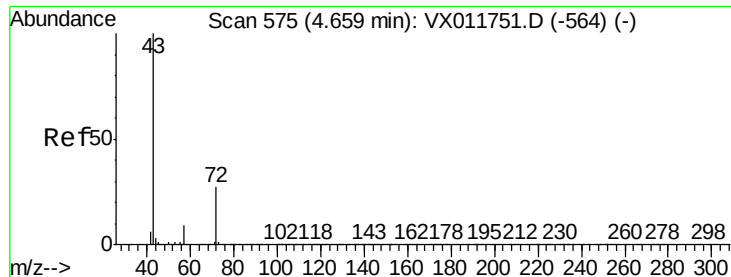
Tgt Ion: 43 Resp: 4677
Ion Ratio Lower Upper
43 100
74 33.8 19.5 29.3#



#20
Methylene Chloride
Concen: 1.468 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Tgt Ion: 84 Resp: 5548
Ion Ratio Lower Upper
84 100
49 113.9 88.3 132.5
51 38.4 26.2 39.2
86 62.5 50.6 76.0





#25

2-Butanone

Concen: 2.884 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.01 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

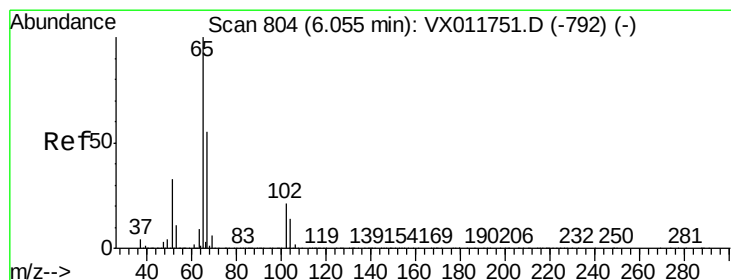
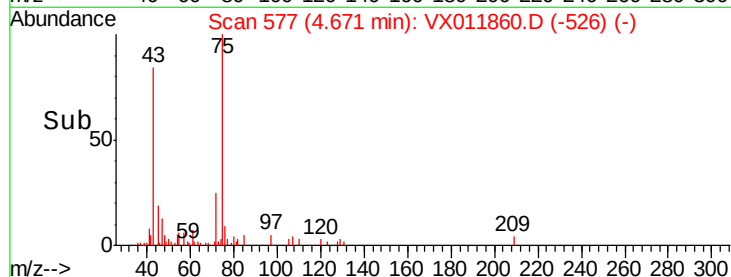
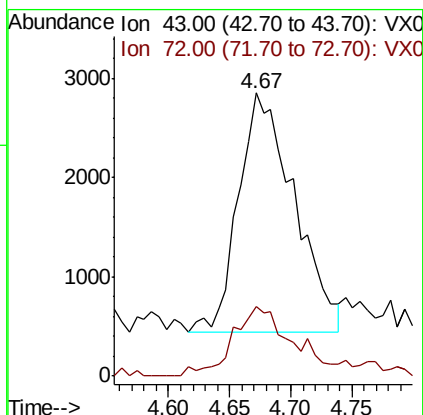
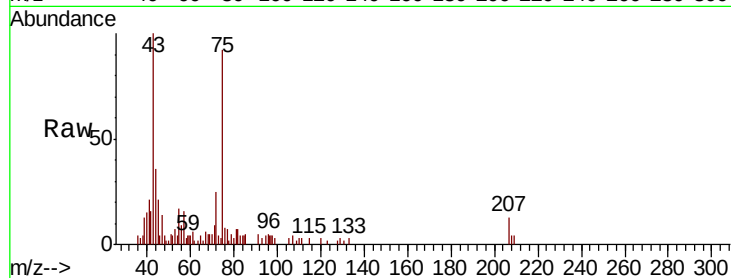
RO-COMP

Tgt Ion: 43 Resp: 7654

Ion Ratio Lower Upper

43 100

72 25.5 21.8 32.6



#33

1,2-Dichloroethane-d4

Concen: 49.987 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011860.D

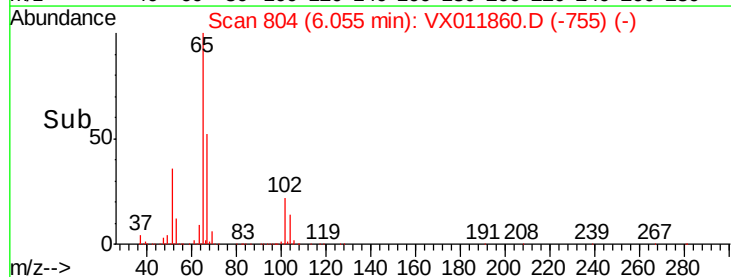
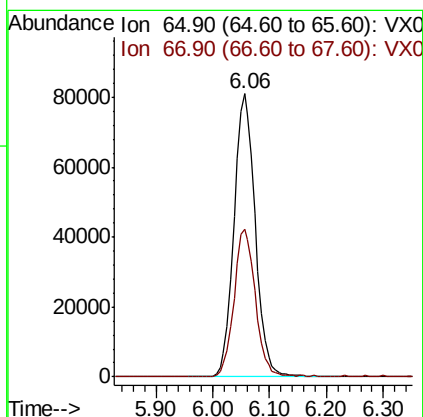
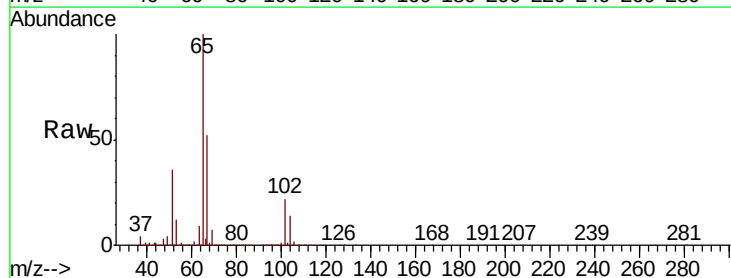
Acq: 27 Aug 2019 19:11

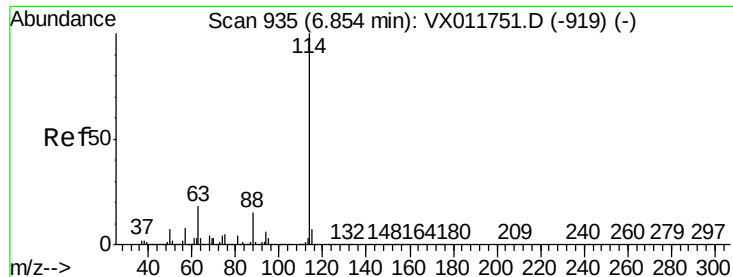
Tgt Ion: 65 Resp: 212488

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.8

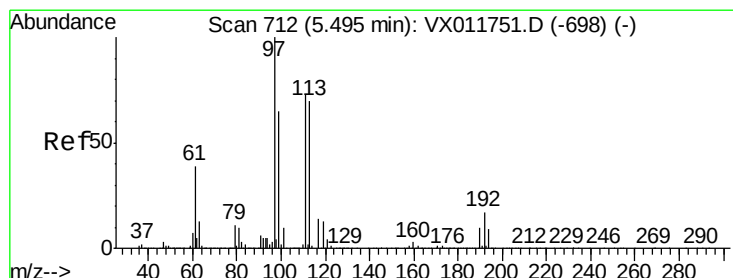
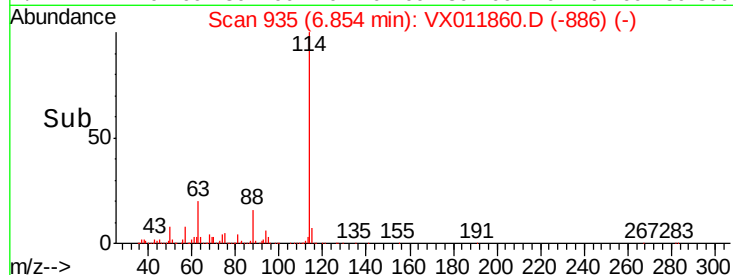
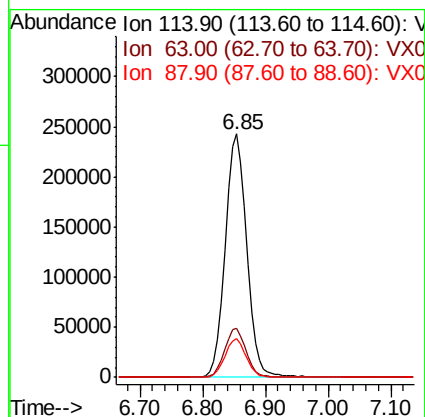
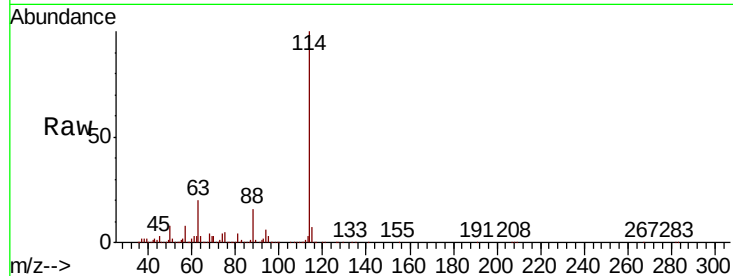




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

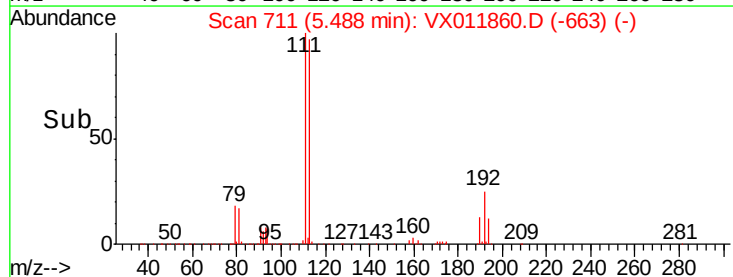
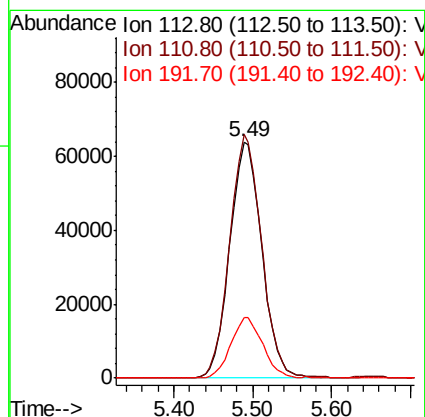
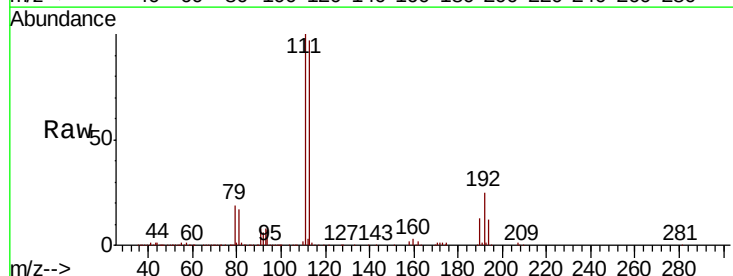
Instrument :
 MSVOA_X
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 RO-COMP

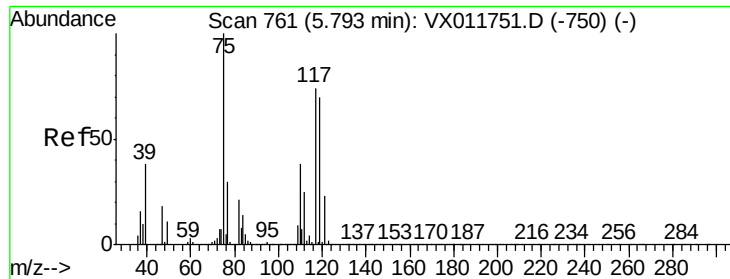
Tgt Ion:	114	Resp:	576134
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	36.8
88	15.9	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 48.697 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

Tgt Ion:	113	Resp:	181422
Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.4
192	25.6	19.9	29.9

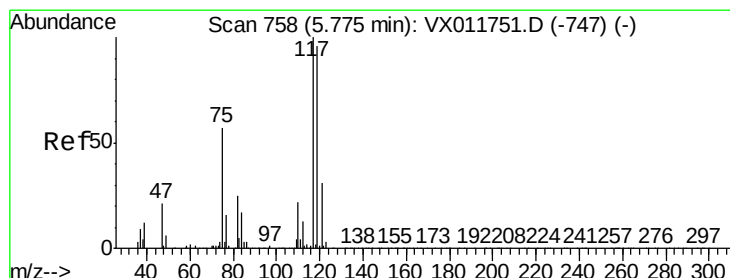
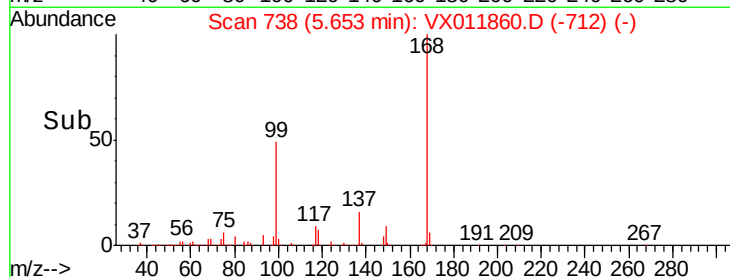
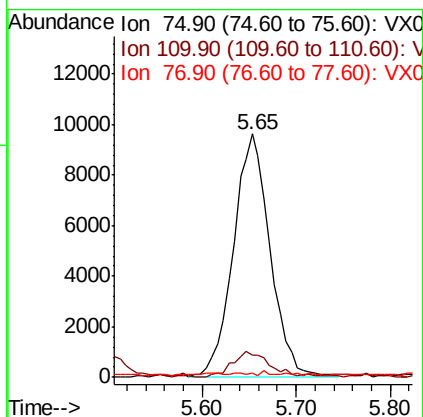
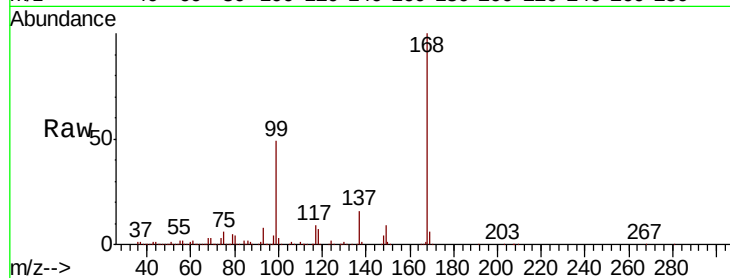




#36
 1,1-Dichloropropene
 Concen: 5.812 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

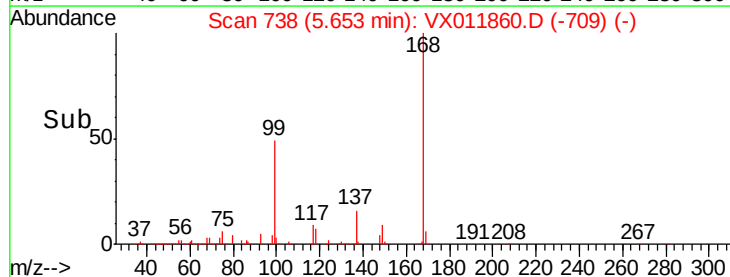
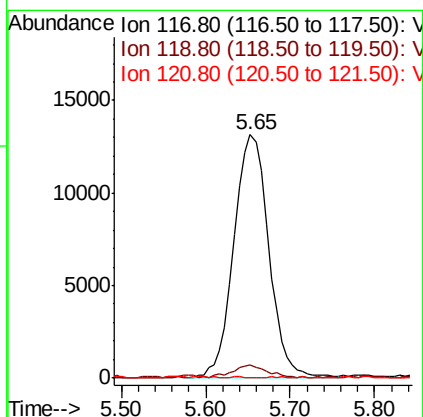
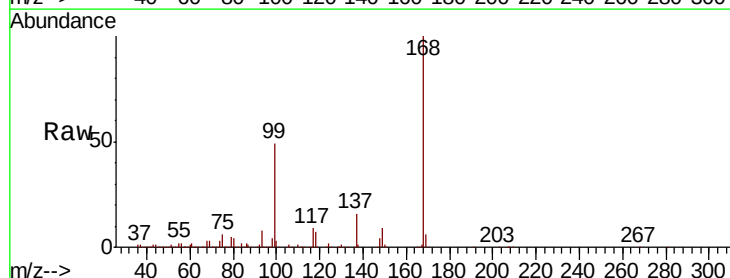
Instrument :
 MSVOA_X
 ClientSampleId :
 RO-COMP

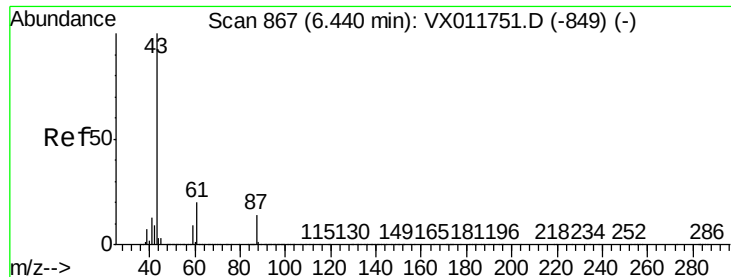
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	19.0	57.0#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 7.241 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.12 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	76.6	114.8#
121	0.0	25.2	37.8#



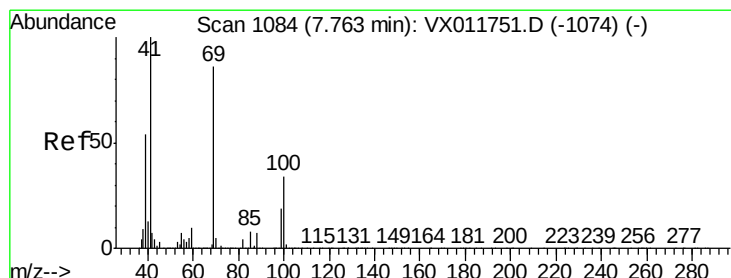
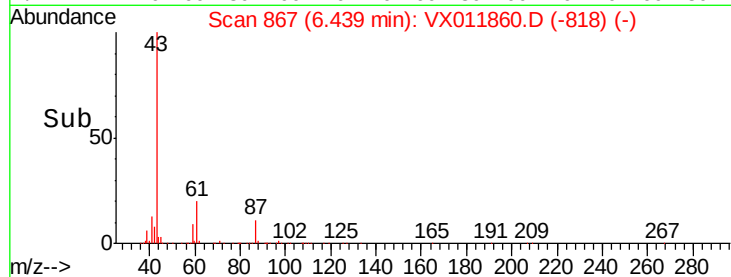
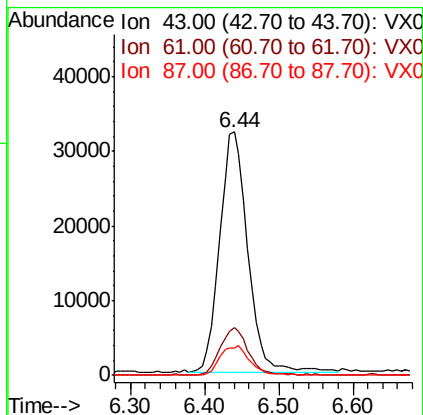
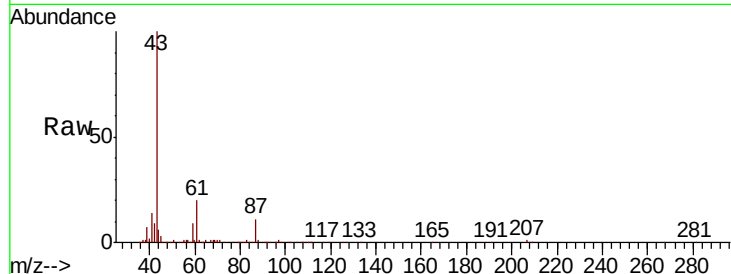


#43

Isopropyl Acetate
 Concen: 10.967 ug/l
 RT: 6.44 min Scan# 867
 Delta R.T. -0.00 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

Instrument :
 MSVOA_X
 ClientSampleId :
 RO-COMP

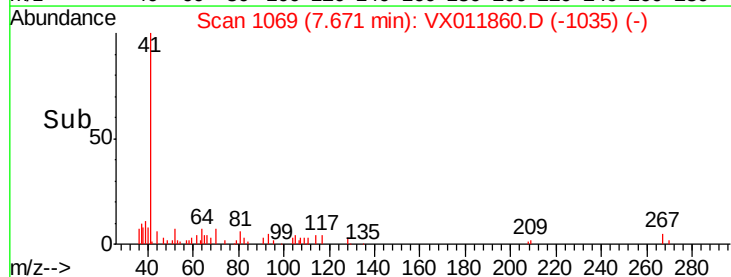
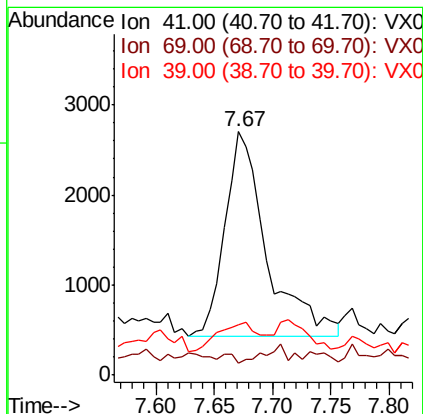
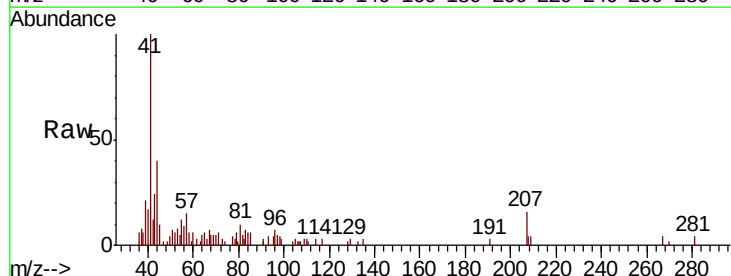
Tgt Ion	Ratio	Lower	Upper
43	100		
61	19.7	16.2	24.2
87	12.8	11.6	17.4

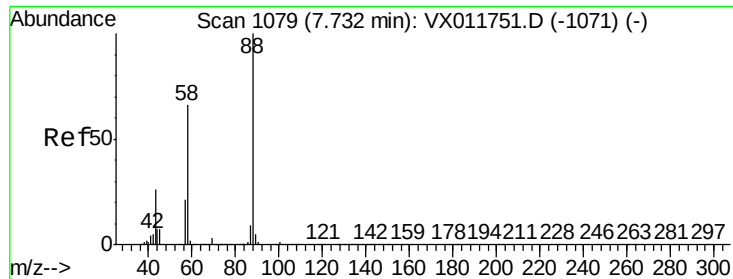


#48

Methyl methacrylate
 Concen: 1.471 ug/l
 RT: 7.67 min Scan# 1069
 Delta R.T. -0.09 min
 Lab File: VX011860.D
 Acq: 27 Aug 2019 19:11

Tgt Ion	Ratio	Lower	Upper
41	100		
69	1.3	69.4	104.2#
39	0.0	43.6	65.4#

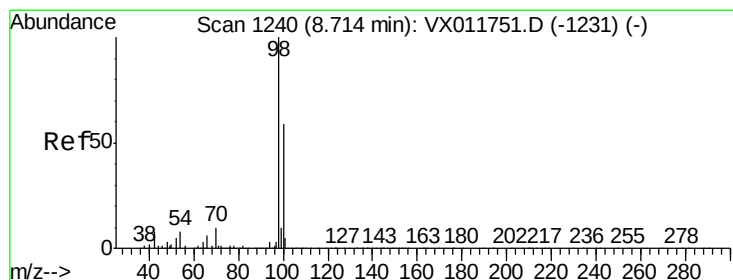
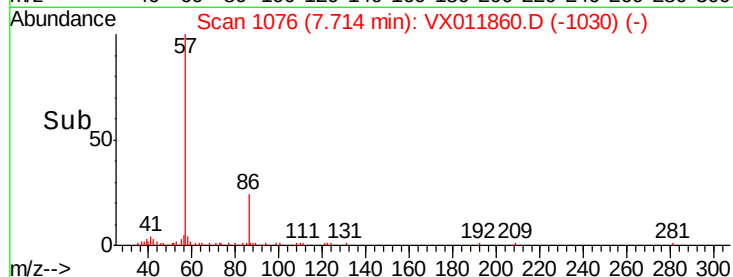
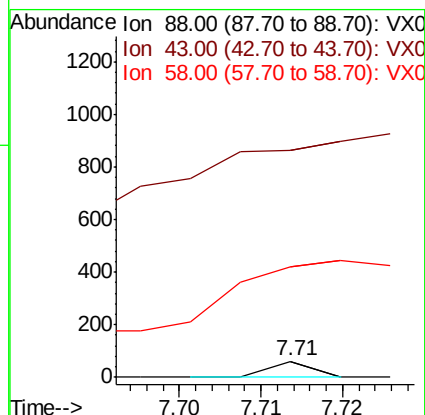
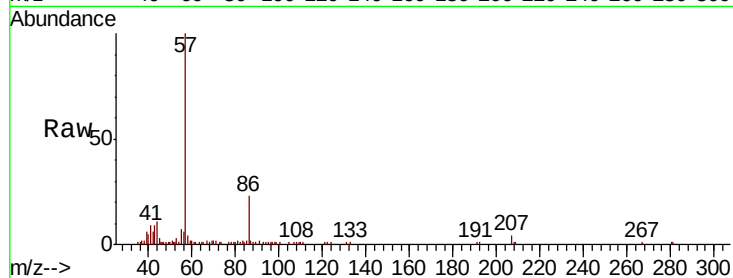




#49
1,4-Dioxane
Concen: 0.206 ug/l
RT: 7.71 min Scan# 1076
Delta R.T. -0.02 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

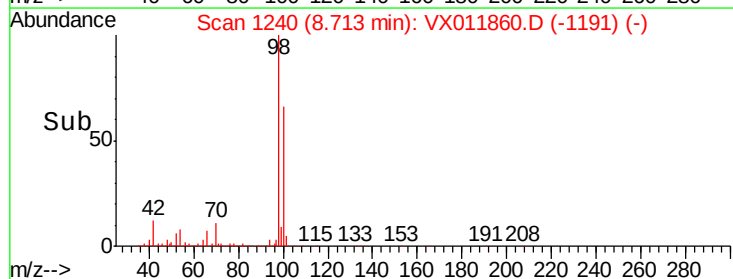
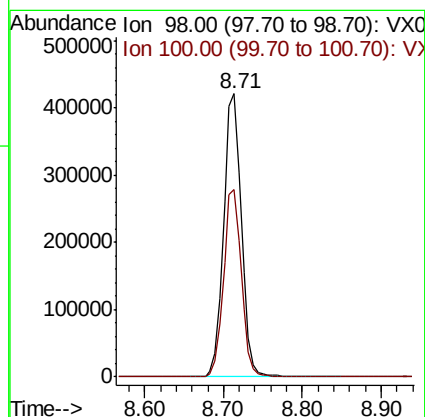
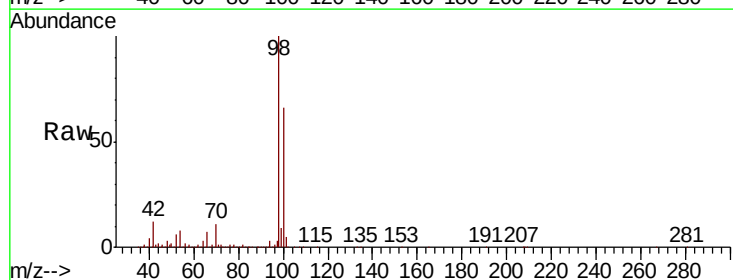
Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

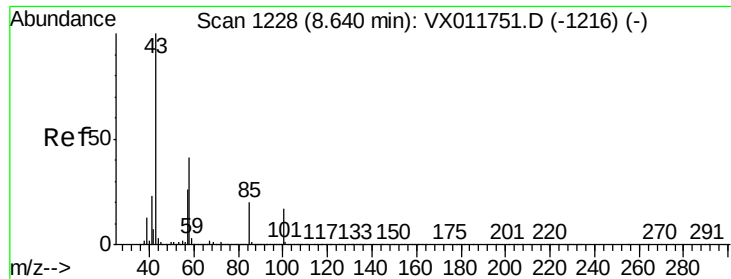
Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 3736.4 51.4 77.2#



#50
Toluene-d8
Concen: 50.882 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Tgt Ion: 98 Resp: 661196
Ion Ratio Lower Upper
98 100
100 66.1 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 15.373 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampled :

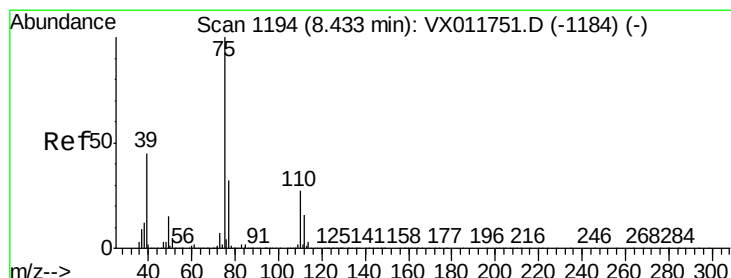
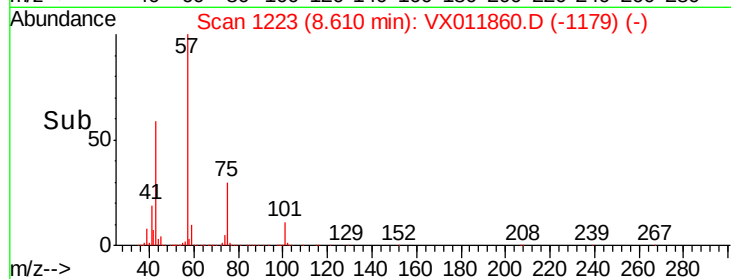
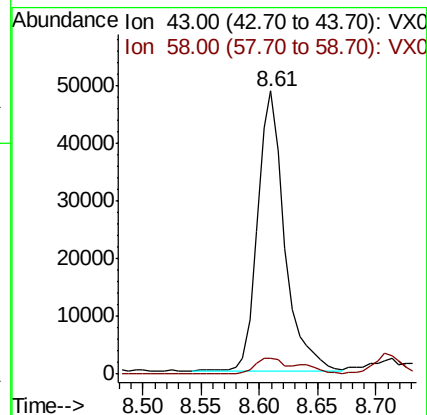
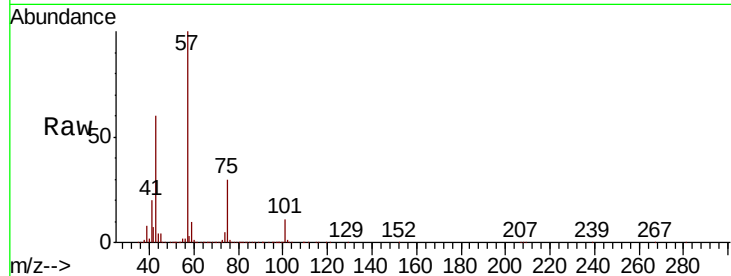
RO-COMP

Tgt Ion: 43 Resp: 78386

Ion Ratio Lower Upper

43 100

58 6.2 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 6.685 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

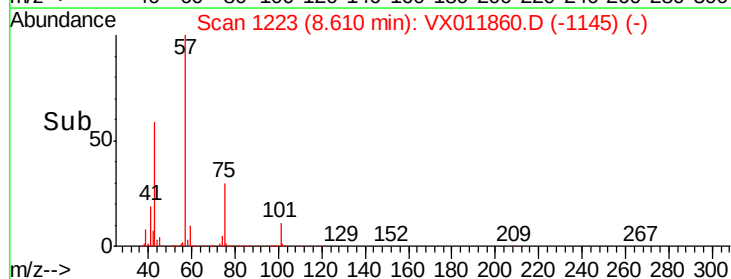
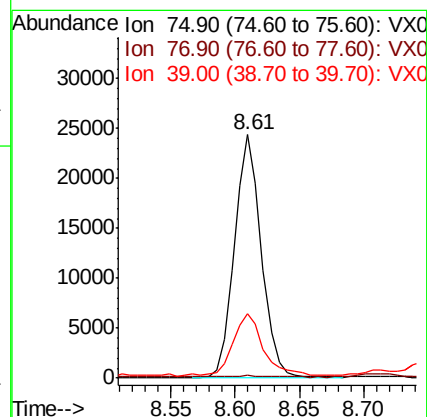
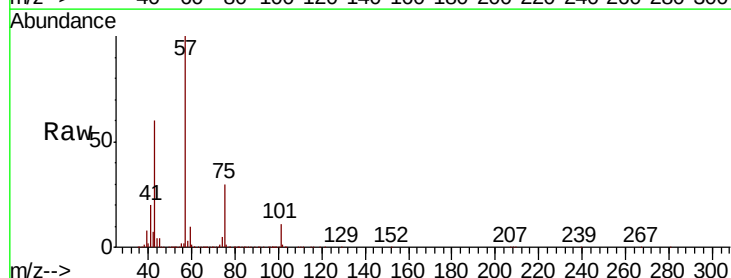
Tgt Ion: 75 Resp: 35694

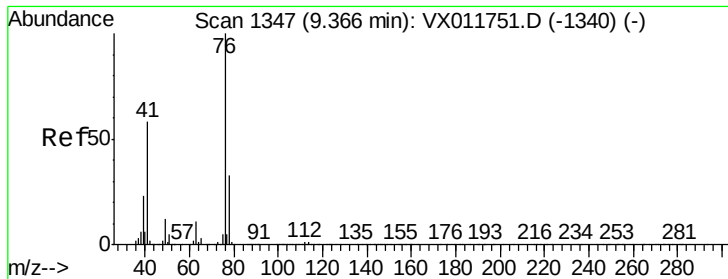
Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.2#

39 25.1 36.2 54.4#





#57

1,3-Dichloropropane

Concen: 1.033 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampled :

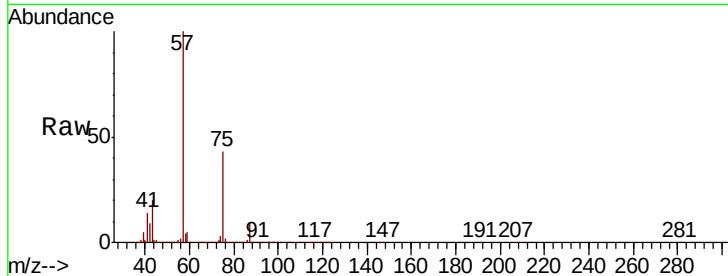
RO-COMP

Tgt Ion: 76 Resp: 6286

Ion Ratio Lower Upper

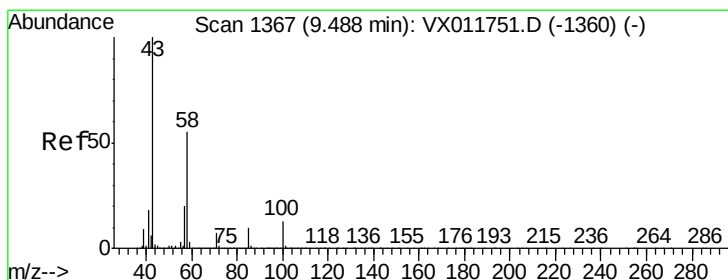
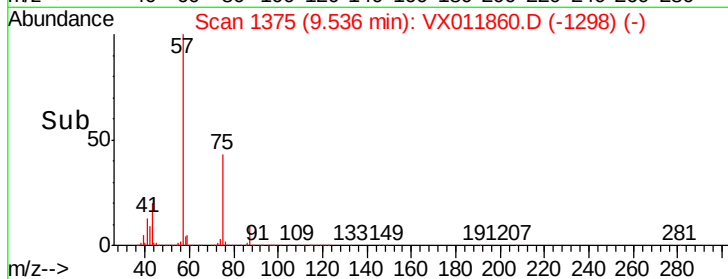
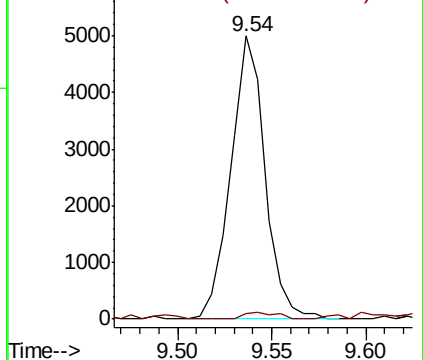
76 100

78 2.3 26.6 39.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 21.596 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011860.D

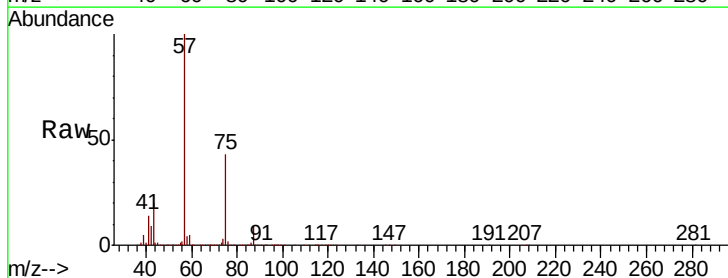
Acq: 27 Aug 2019 19:11

Tgt Ion: 43 Resp: 84517

Ion Ratio Lower Upper

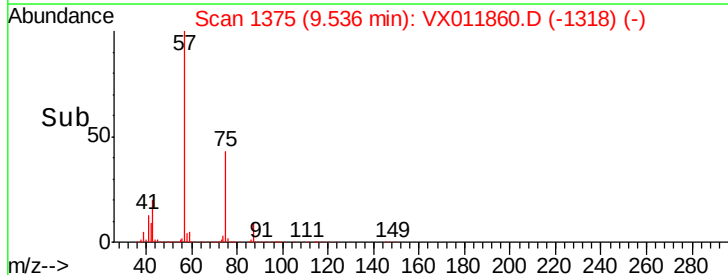
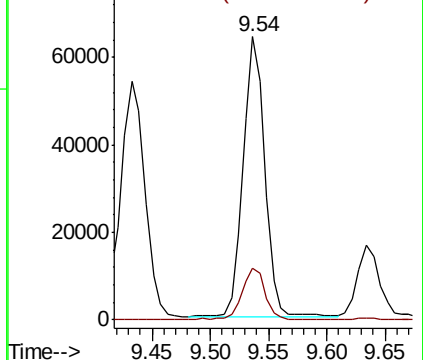
43 100

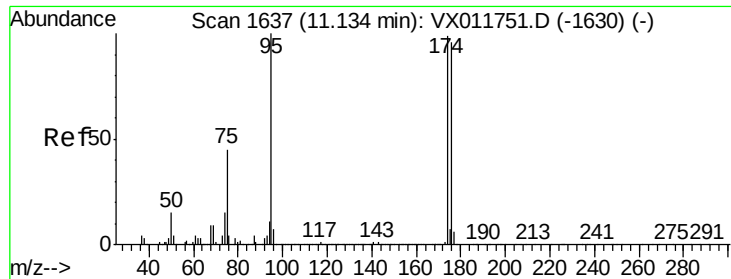
58 19.3 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

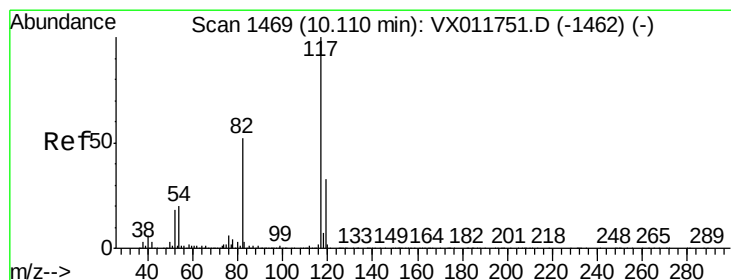
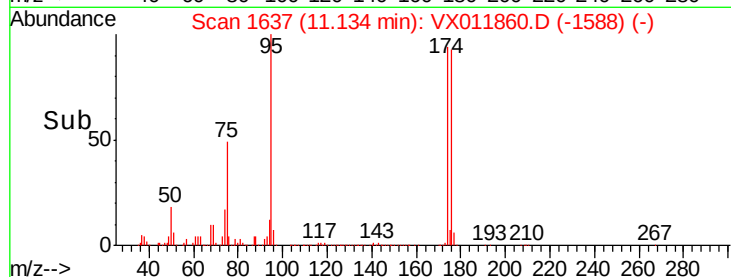
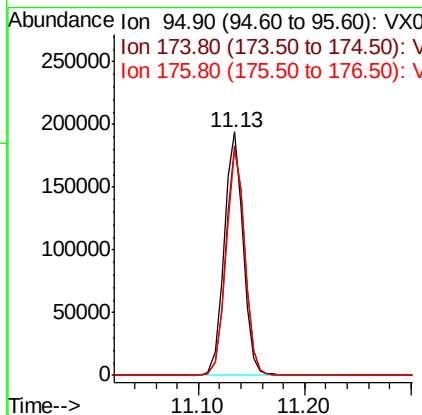
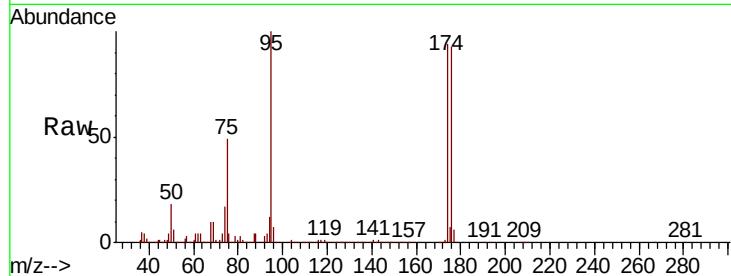




#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

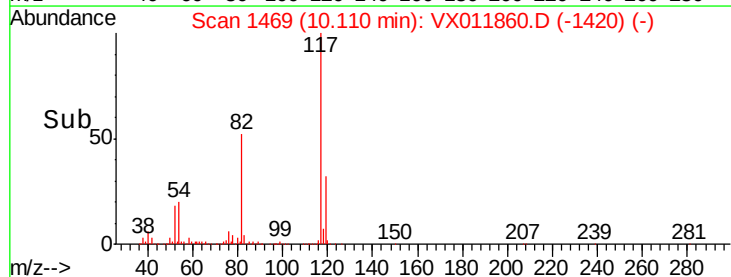
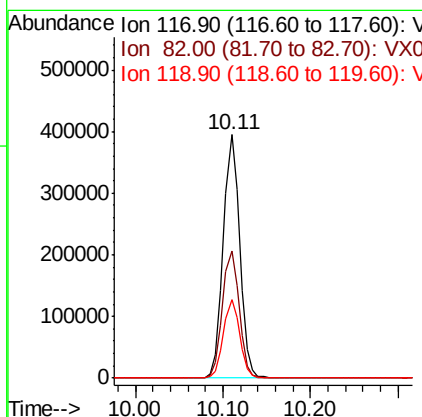
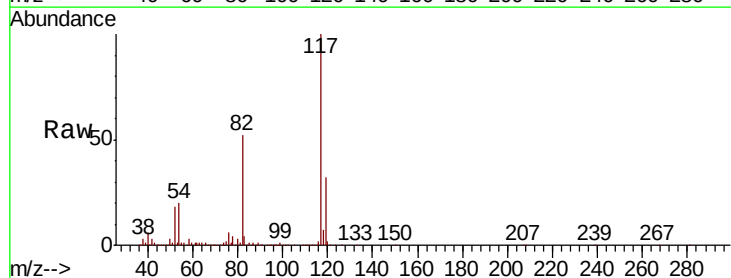
Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

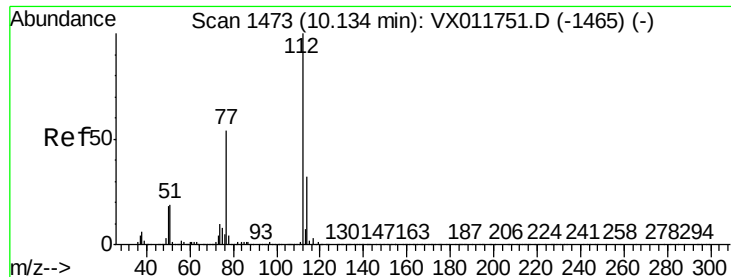
Tgt Ion: 95 Resp: 240234
Ion Ratio Lower Upper
95 100
174 94.9 0.0 197.4
176 92.5 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Tgt Ion: 117 Resp: 511576
Ion Ratio Lower Upper
117 100
82 52.2 41.7 62.5
119 32.1 26.2 39.2

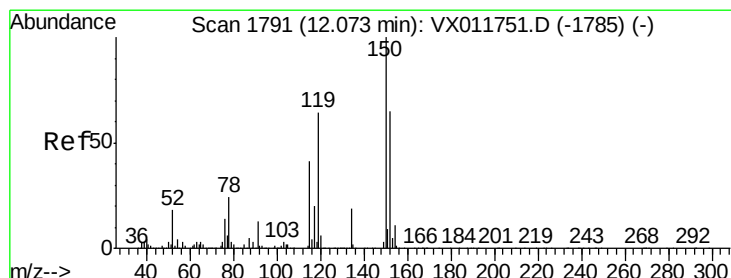
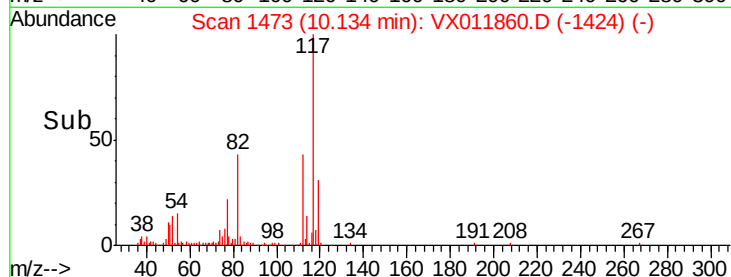
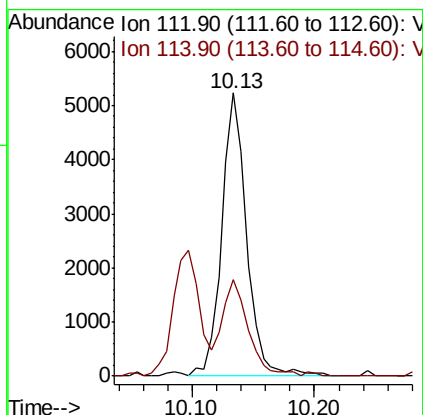
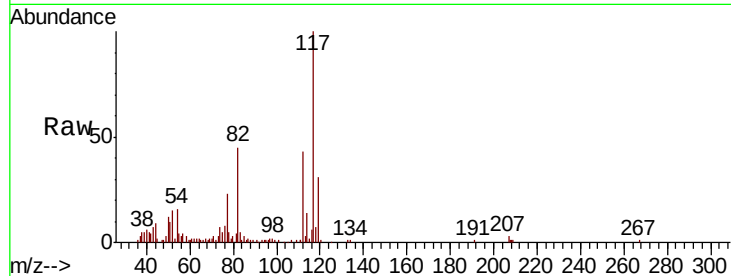




#65
Chlorobenzene
Concen: 0.740 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

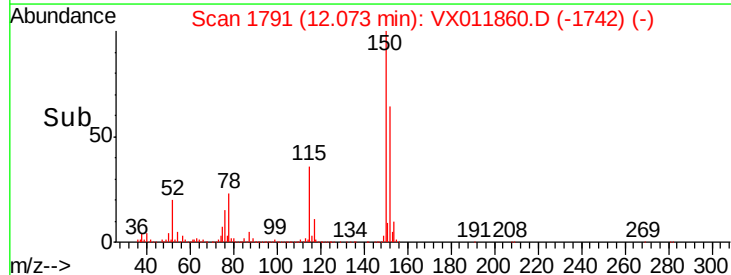
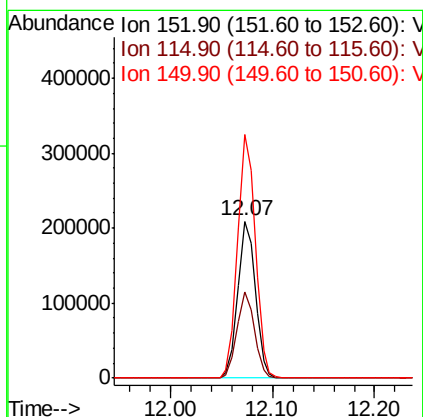
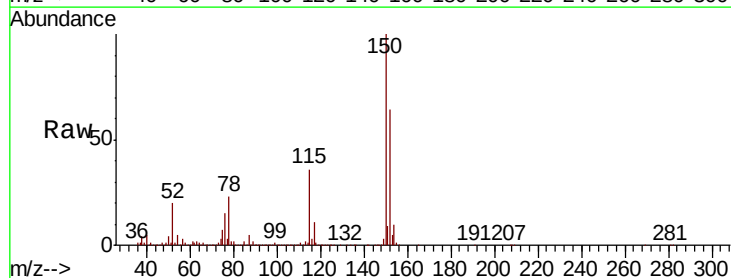
Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

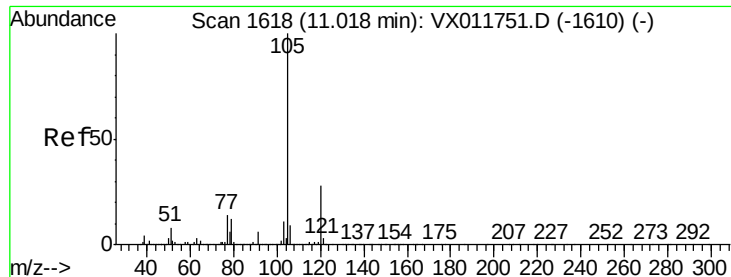
Tgt Ion:112 Resp: 7388
Ion Ratio Lower Upper
112 100
114 33.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Tgt Ion:152 Resp: 247620
Ion Ratio Lower Upper
152 100
115 54.9 37.3 111.8
150 156.7 0.0 343.0





#73

Isopropylbenzene

Concen: 0.383 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

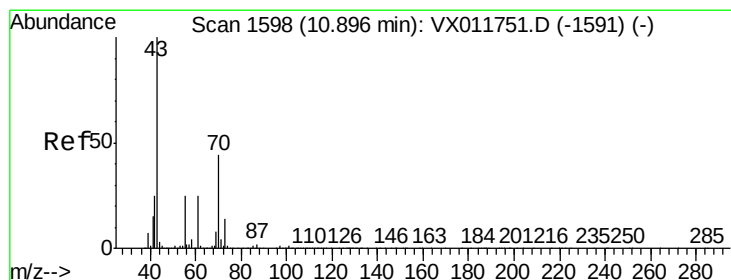
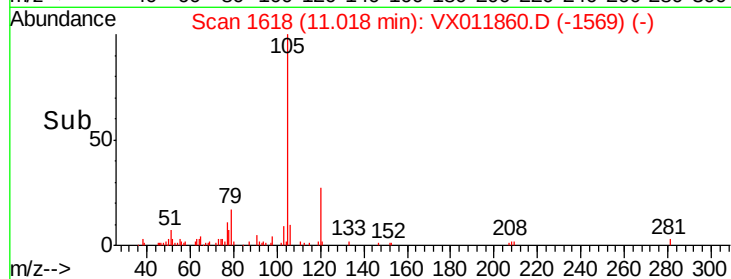
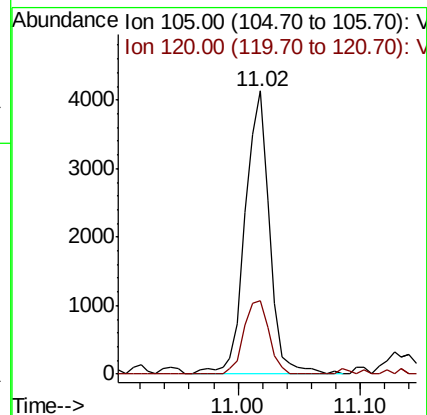
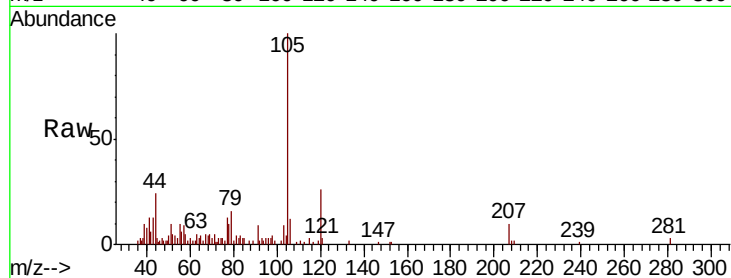
RO-COMP

Tgt Ion:105 Resp: 5709

Ion Ratio Lower Upper

105 100

120 26.6 13.9 41.7



#74

N-ethyl acetate

Concen: 0.720 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Tgt Ion: 43 Resp: 4162

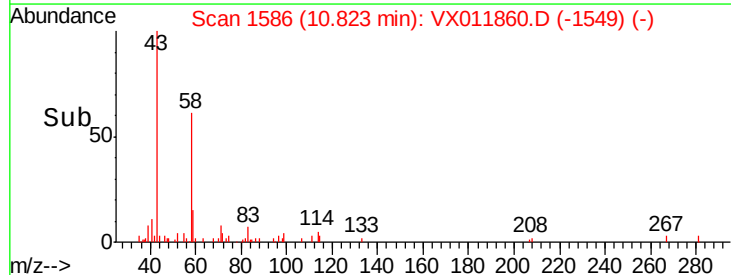
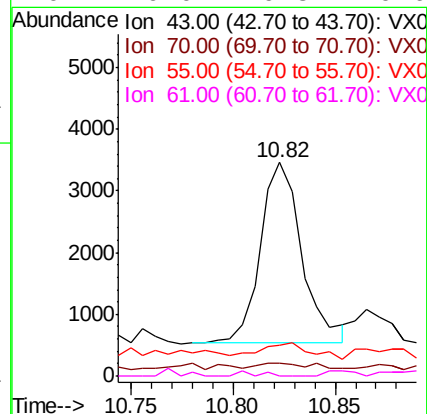
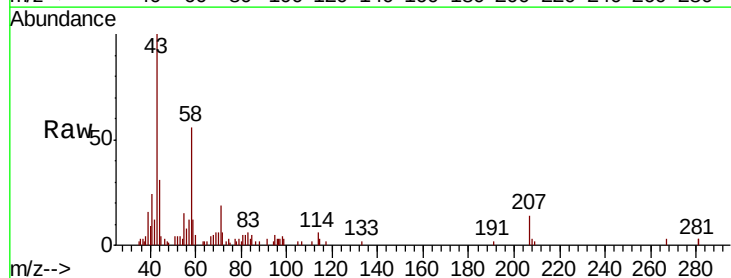
Ion Ratio Lower Upper

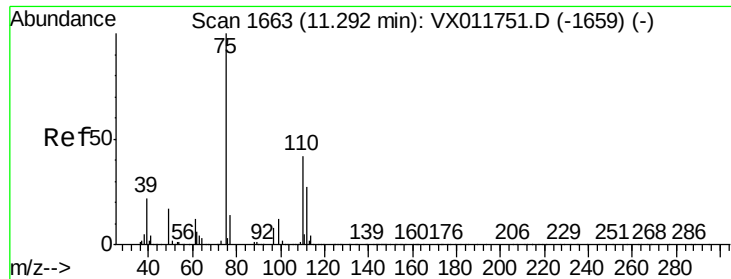
43 100

70 3.9 34.8 52.2#

55 10.5 19.5 29.3#

61 0.0 19.8 29.6#





#76

1,2,3-Trichloropropane

Concen: 27.284 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampled :

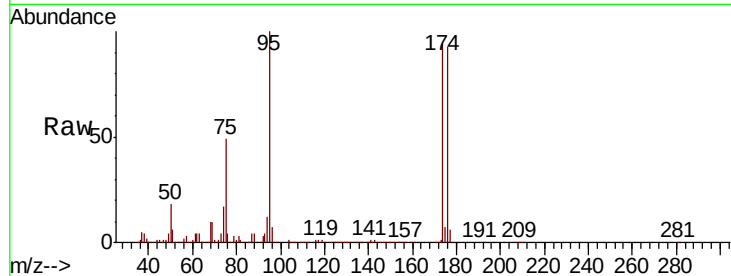
RO-COMP

Tgt Ion: 75 Resp: 118550

Ion Ratio Lower Upper

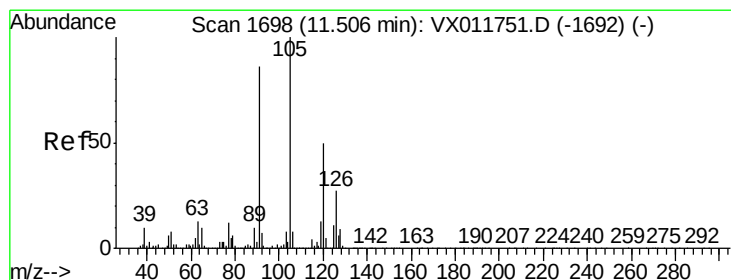
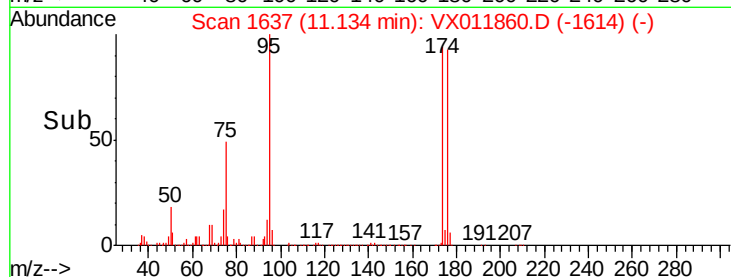
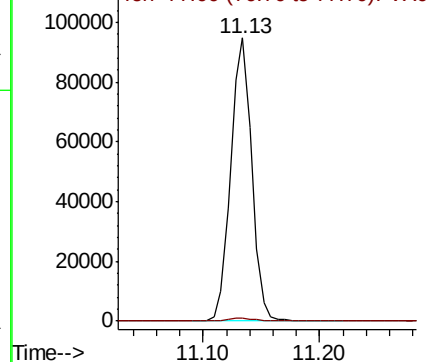
75 100

77 1.1 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.279 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011860.D

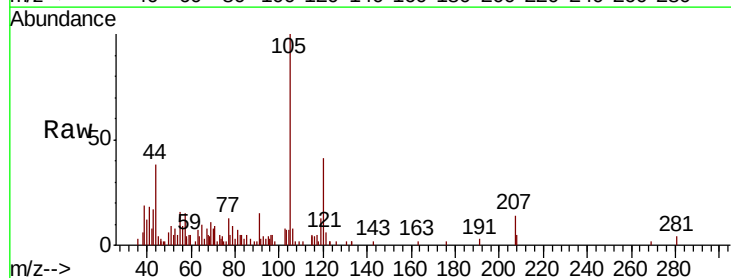
Acq: 27 Aug 2019 19:11

Tgt Ion: 105 Resp: 3470

Ion Ratio Lower Upper

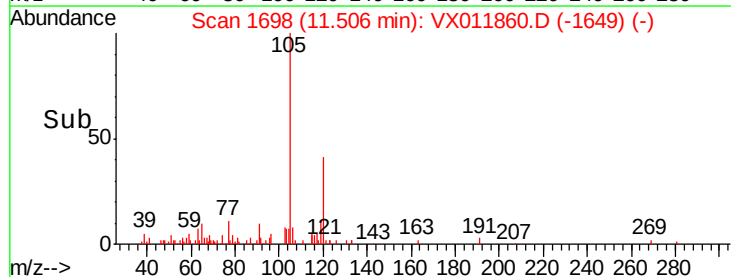
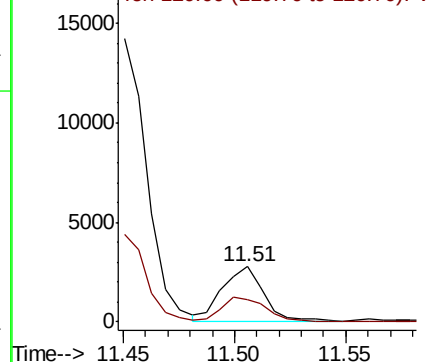
105 100

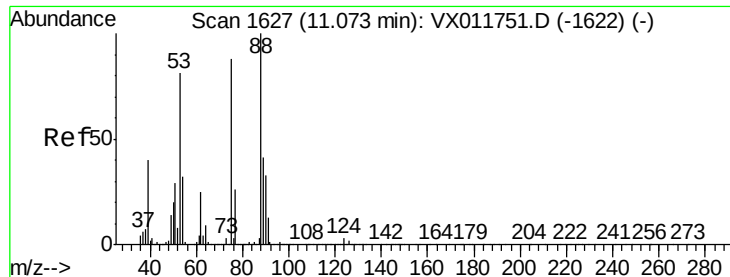
120 50.4 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 82.284 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011860.D

Acq: 27 Aug 2019 19:11

Instrument :

MSVOA_X

ClientSampleId :

RO-COMP

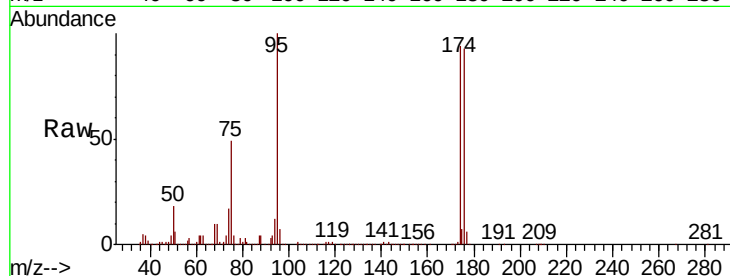
Tgt Ion: 75 Resp: 118550

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

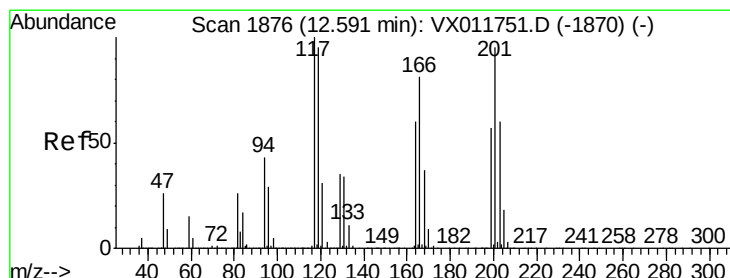
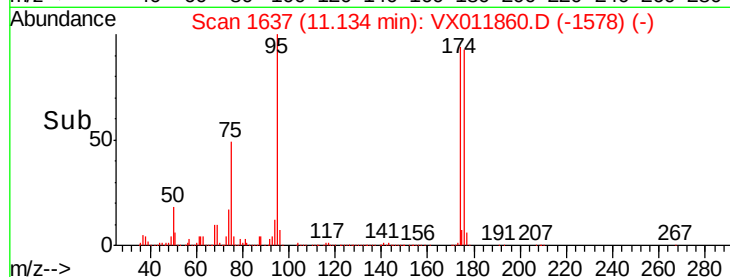
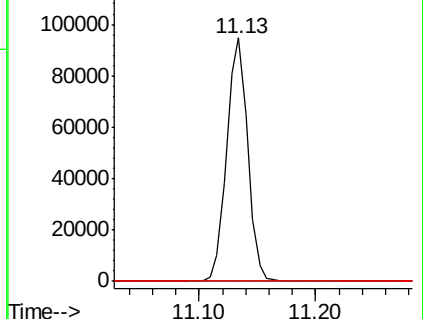
89 0.1 38.5 57.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 0.336 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX011860.D

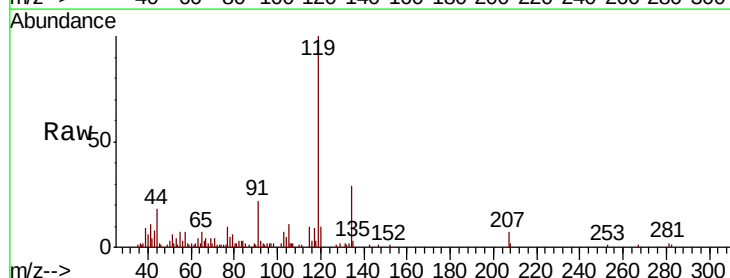
Acq: 27 Aug 2019 19:11

Tgt Ion: 117 Resp: 705

Ion Ratio Lower Upper

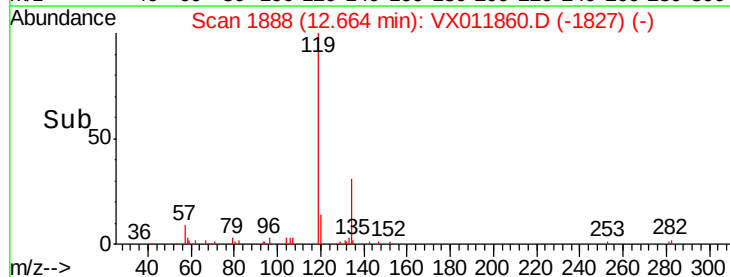
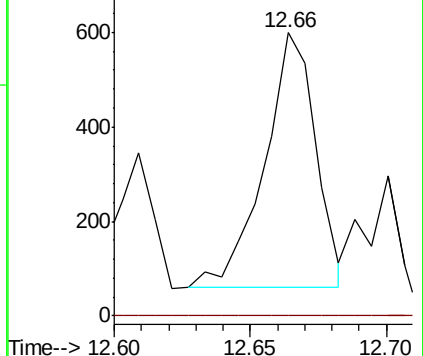
117 100

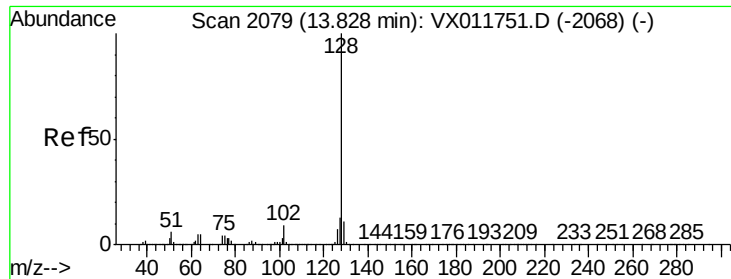
201 0.0 49.6 149.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95
Naphthalene
Concen: 0.721 ug/l
RT: 13.83 min Scan# 2079
Delta R.T. -0.00 min
Lab File: VX011860.D
Acq: 27 Aug 2019 19:11

Instrument :
MSVOA_X
ClientSampleId :
RO-COMP

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.4	15.6
129	12.9	8.7	13.1

