

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062819\
 Data File : VX010563.D
 Acq On : 29 Jun 2019 03:04
 Operator : JC/SP
 Sample : K3554-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-16

Quant Time: Jun 29 04:46:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061919W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 03:31:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	254882	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	400446	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	370661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	173749	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	123636	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	5.50	113	120298	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	8.71	98	479076	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.13	95	164883	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	

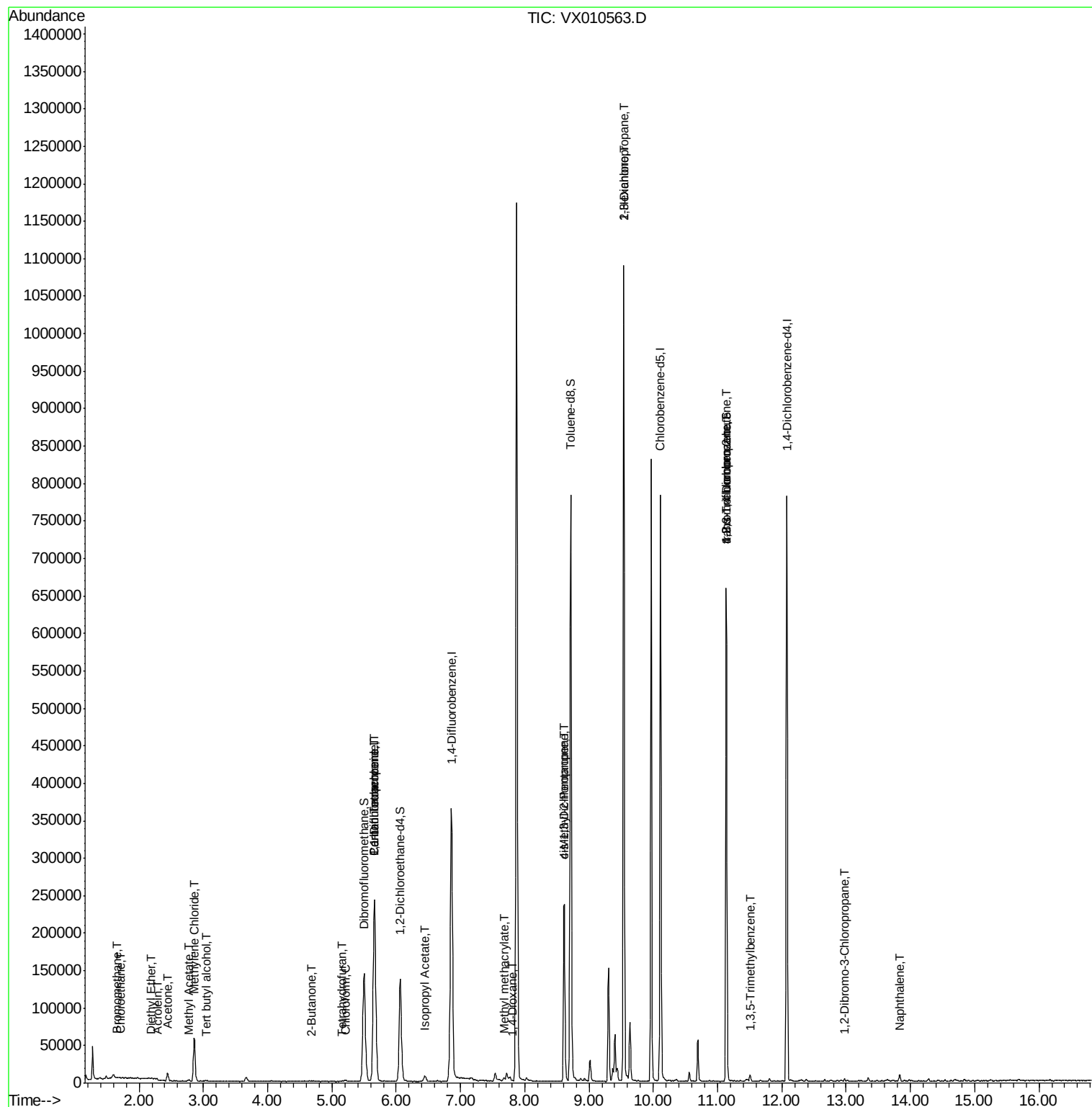
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	426	0.387	ug/l #	49
6) Chloroethane	1.71	64	275	0.206	ug/l #	72
8) Diethyl Ether	2.18	74	291	0.226	ug/l	98
11) Tert butyl alcohol	3.04	59	387	0.619	ug/l #	74
13) Acrolein	2.29	56	248	0.598	ug/l #	14
16) Acetone	2.44	43	11432	9.545	ug/l	91
18) Methyl Acetate	2.78	43	2565	1.075	ug/l	93
20) Methylene Chloride	2.85	84	28812	11.690	ug/l	97
25) 2-Butanone	4.68	43	1690	0.962	ug/l	96
29) Tetrahydrofuran	5.15	42	1060	0.974	ug/l #	62
30) Chloroform	5.21	83	1762	0.432	ug/l #	51
36) 1,1-Dichloropropene	5.66	75	15797	4.964	ug/l #	48
38) Carbon Tetrachloride	5.66	117	22250	6.457	ug/l #	15
43) Isopropyl Acetate	6.45	43	9859	1.820	ug/l	97
48) Methyl methacrylate	7.68	41	5429	2.156	ug/l #	10
49) 1,4-Dioxane	7.82	88	65	0.896	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	75306	21.739	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	42271	10.540	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	9830	2.352	ug/l #	42
59) 2-Hexanone	9.54	43	117263	43.012	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	78284	24.725	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	3682	0.379	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.13	75	78284	57.681	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	12.97	75	306	0.364	ug/l #	1
95) Naphthalene	13.83	128	5258	0.432	ug/l #	96

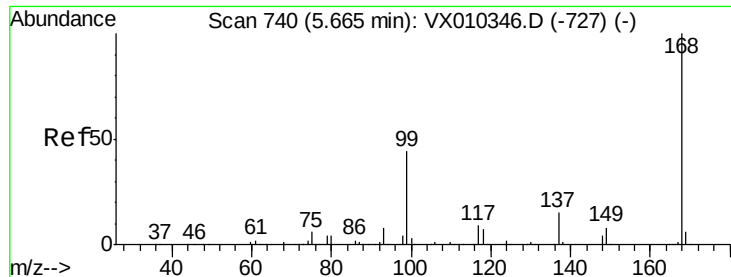
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jun 20 03:31:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

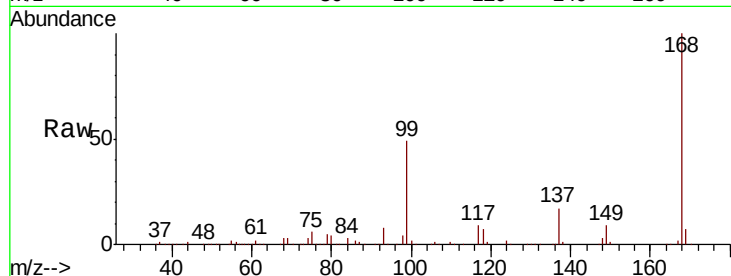
SAMPLE-16

Tot Ion:168 Resp: 254882

Ion Ratio Lower Upper

168 100

99 48.6 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

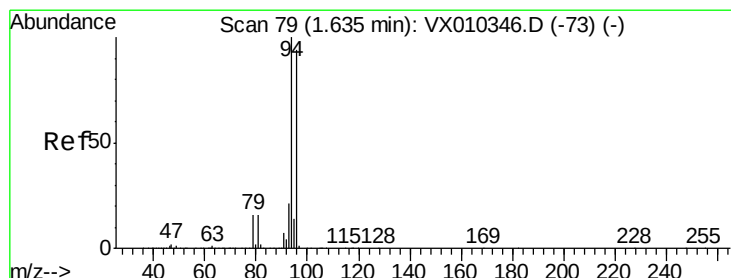
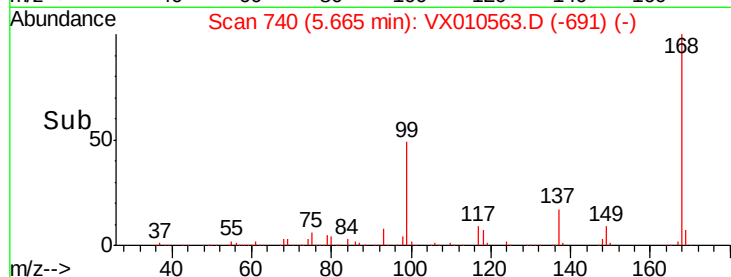
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.387 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX010563.D

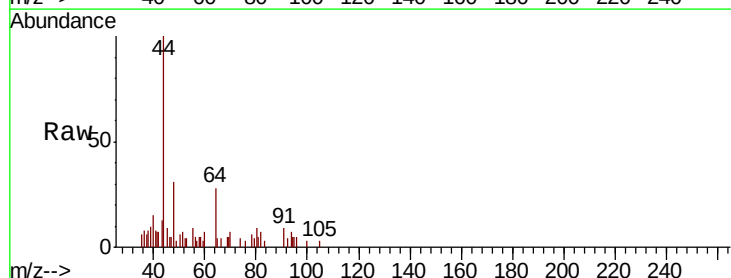
Acq: 29 Jun 2019 03:04

Tgt Ion: 94 Resp: 426

Ion Ratio Lower Upper

94 100

96 45.0 75.5 113.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

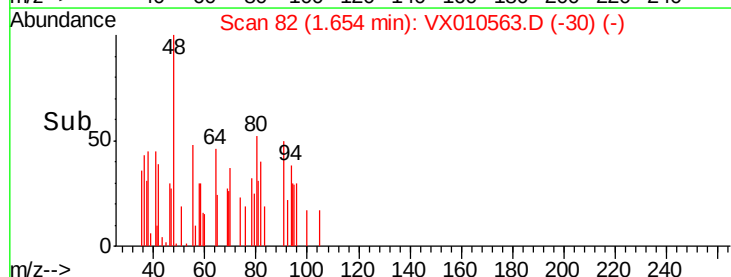
150

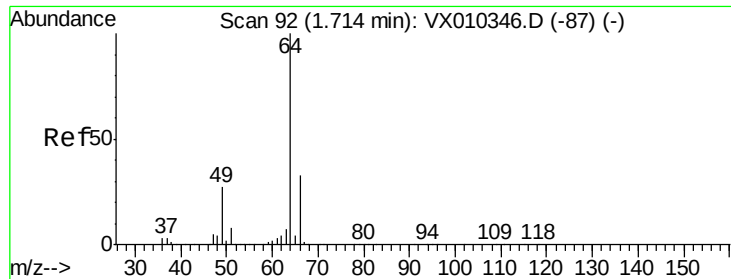
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.206 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

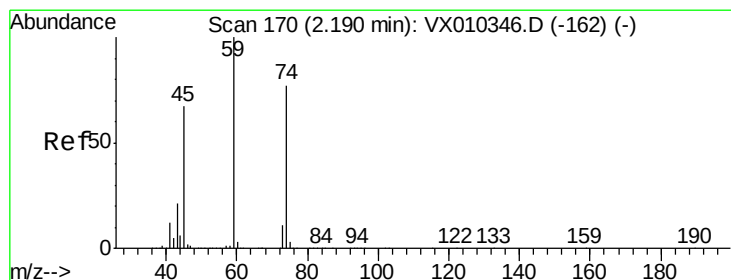
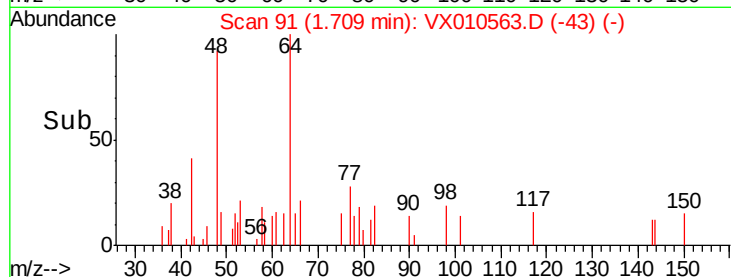
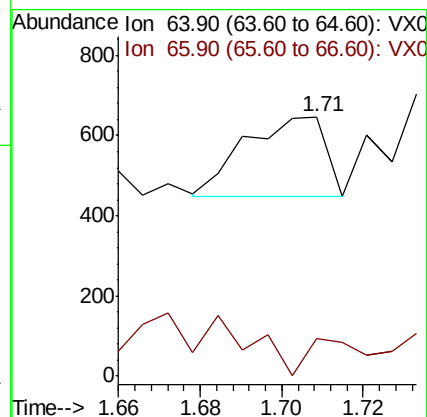
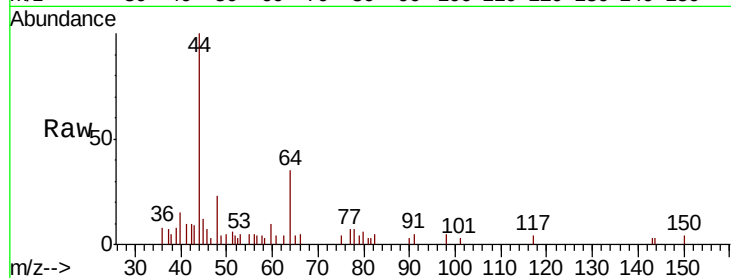
SAMPLE-16

Tot Ion: 64 Resp: 275

Ion Ratio Lower Upper

64 100

66 17.6 26.6 40.0#



#8

Diethyl Ether

Concen: 0.226 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX010563.D

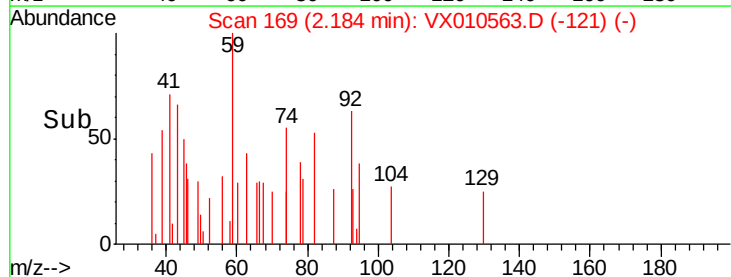
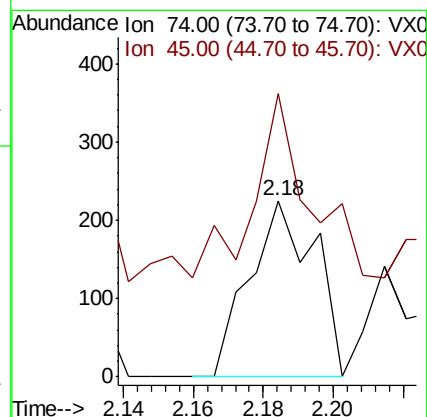
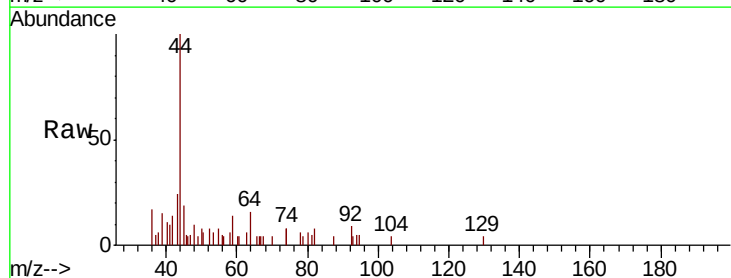
Acq: 29 Jun 2019 03:04

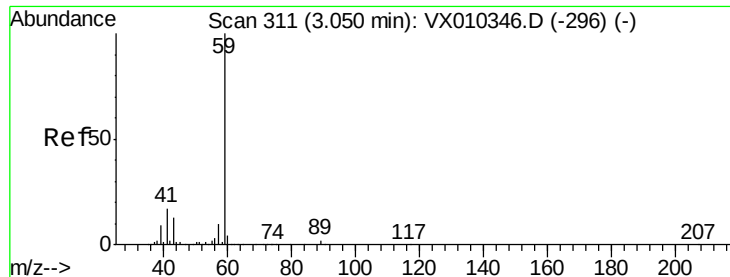
Tgt Ion: 74 Resp: 291

Ion Ratio Lower Upper

74 100

45 87.6 44.8 134.4



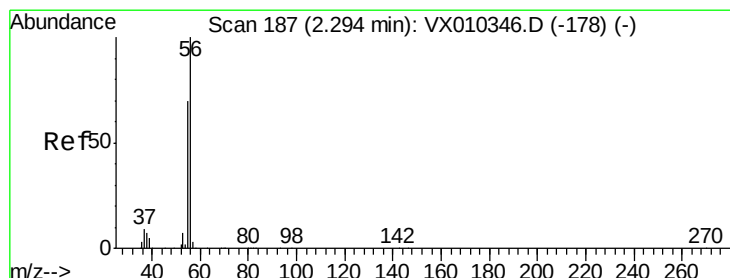
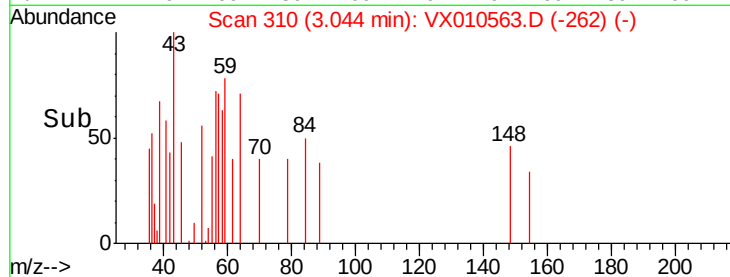
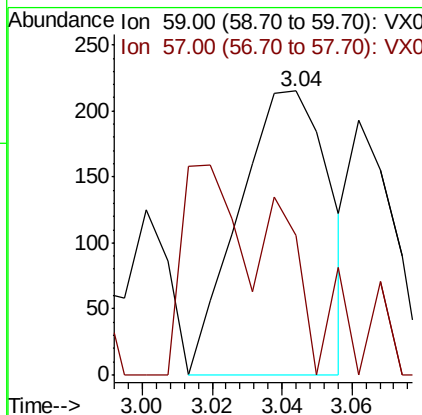
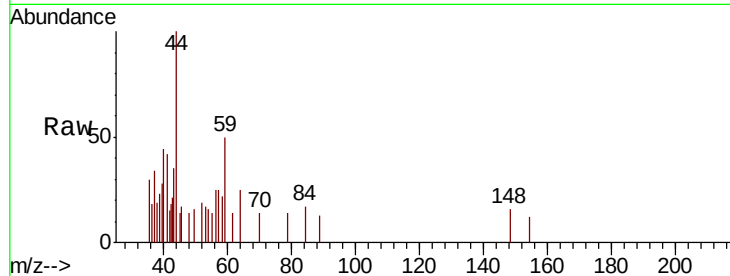


#11

Tert butyl alcohol
Concen: 0.619 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

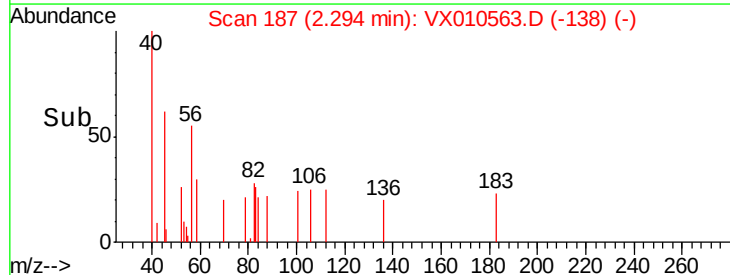
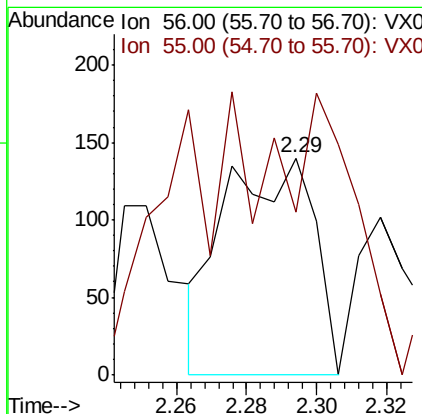
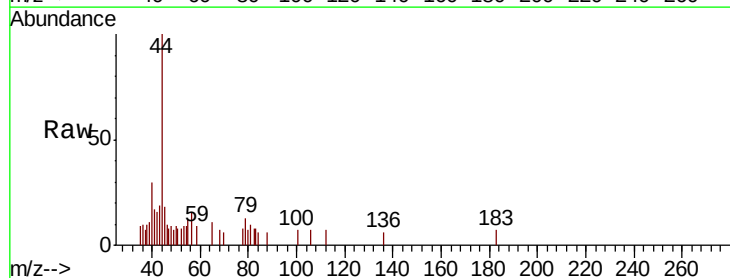
Tot Ion: 59 Resp: 387
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

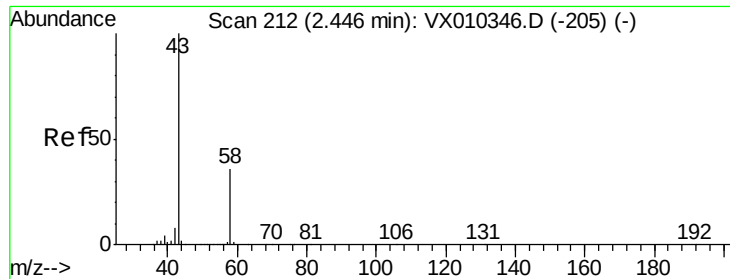


#13

Acrolein
Concen: 0.598 ug/l
RT: 2.29 min Scan# 187
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion: 56 Resp: 248
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 9.545 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

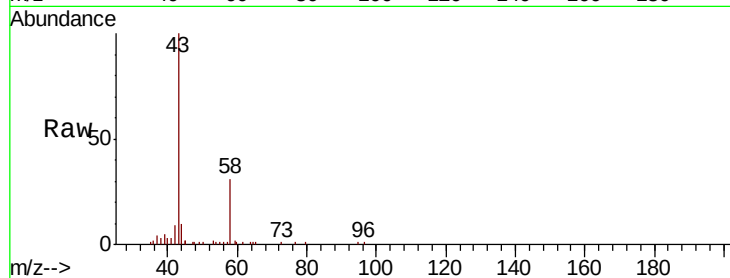
SAMPLE-16

Tot Ion: 43 Resp: 11432

Ion Ratio Lower Upper

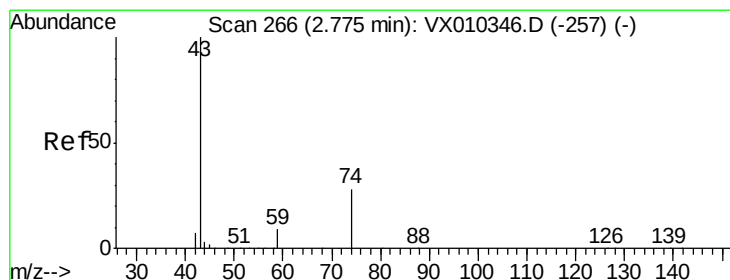
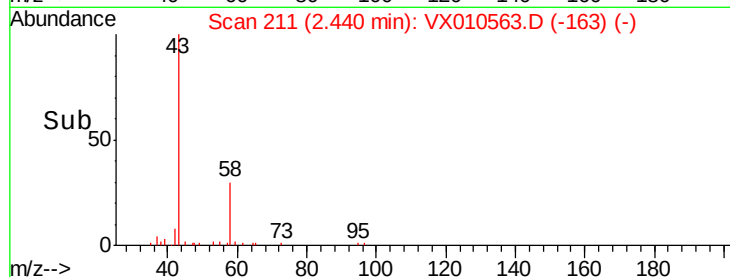
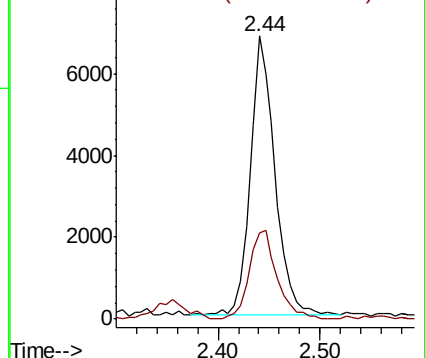
43 100

58 31.0 28.9 43.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.075 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX010563.D

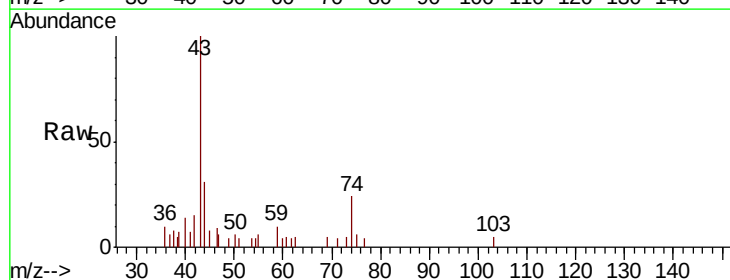
Acq: 29 Jun 2019 03:04

Tgt Ion: 43 Resp: 2565

Ion Ratio Lower Upper

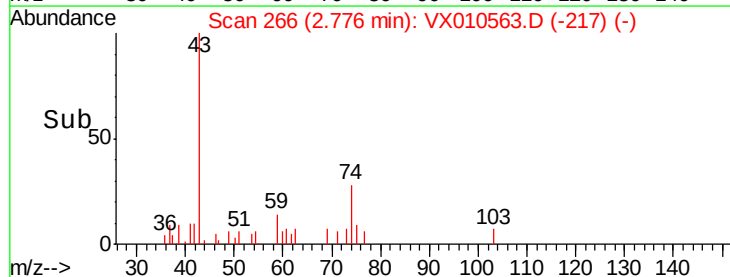
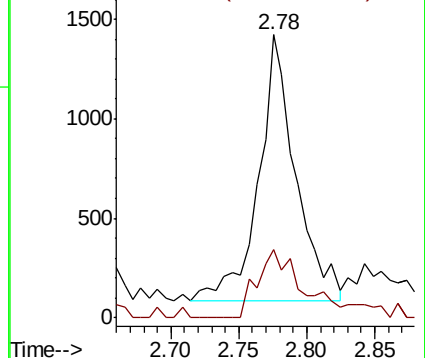
43 100

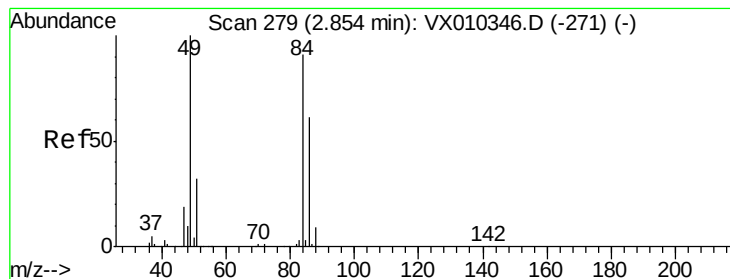
74 30.3 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methvlene Chloride

Concen: 11.690 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-16

Tot Ion: 84 Resp: 28812

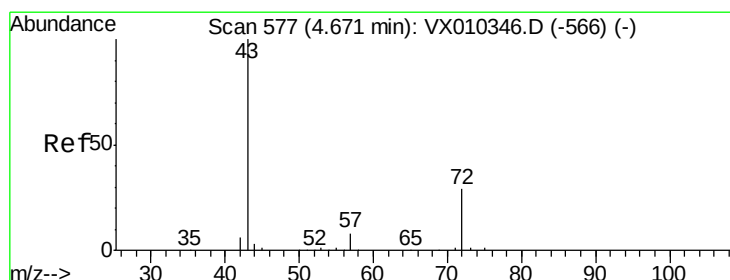
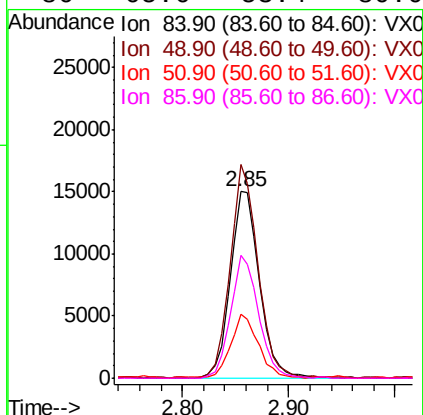
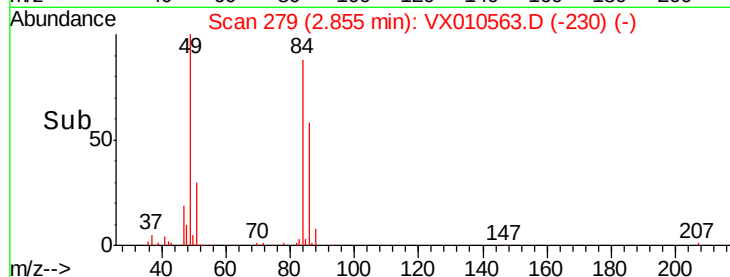
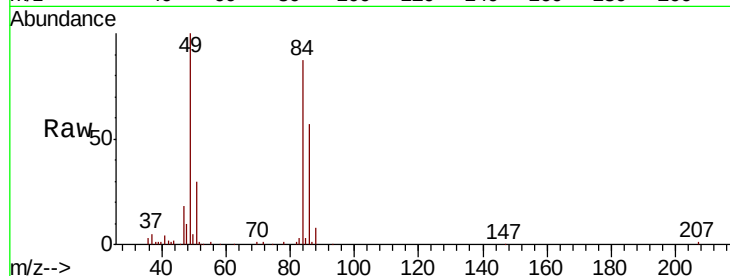
Ion Ratio Lower Upper

84 100

49 114.4 87.5 131.3

51 33.9 27.7 41.5

86 65.6 53.4 80.0



#25

2-Butanone

Concen: 0.962 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX010563.D

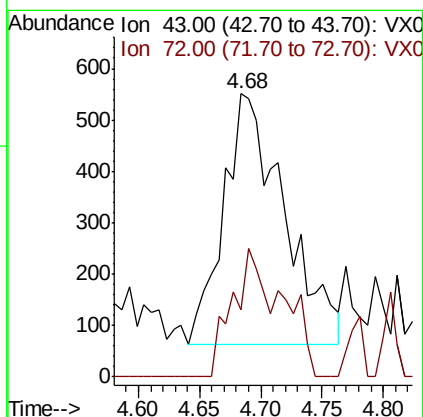
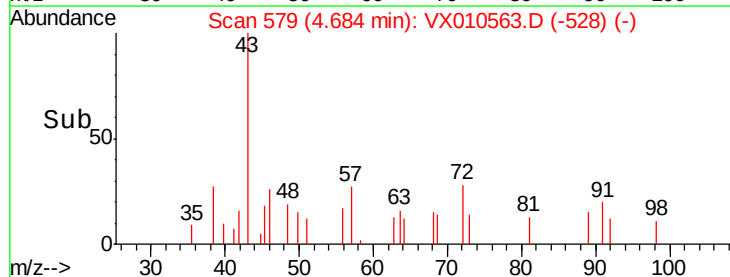
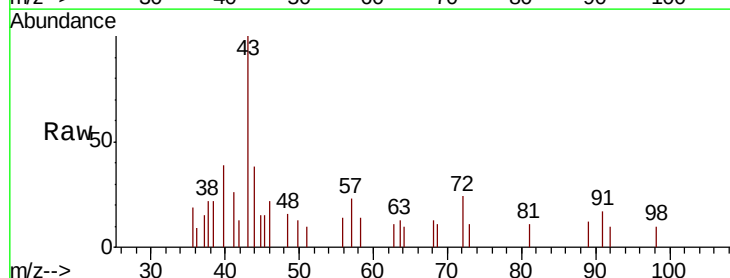
Acq: 29 Jun 2019 03:04

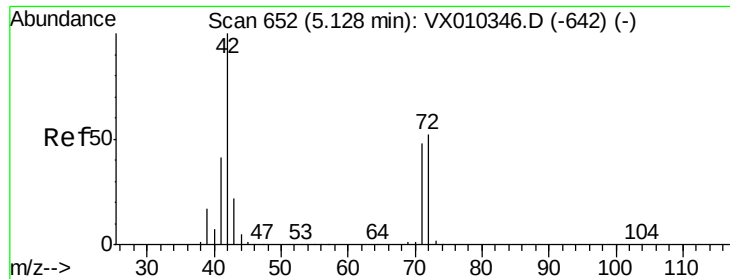
Tgt Ion: 43 Resp: 1690

Ion Ratio Lower Upper

43 100

72 26.8 23.3 34.9

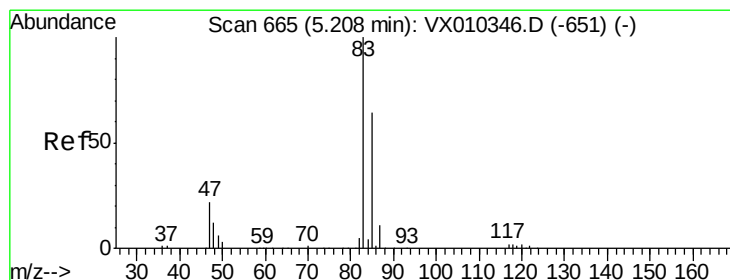
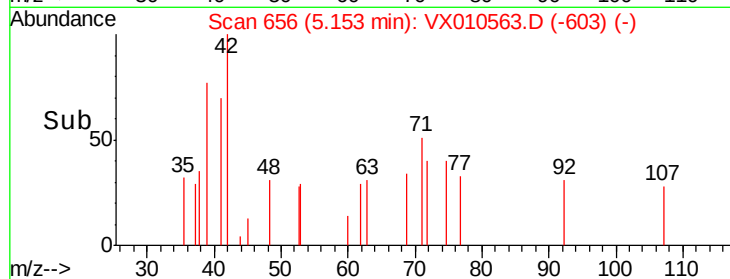
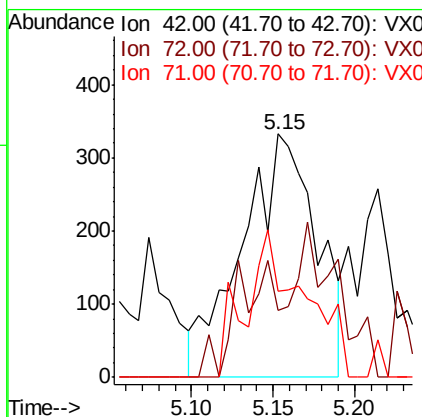
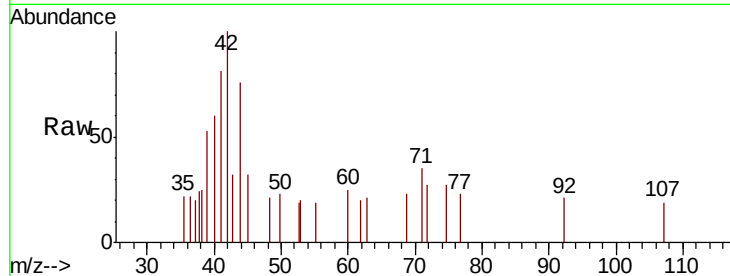




#29
Tetrahydrofuran
Concen: 0.974 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.02 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

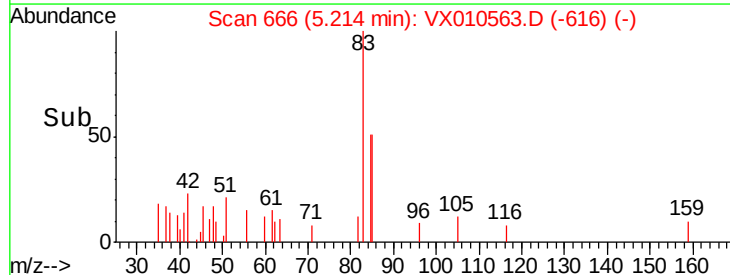
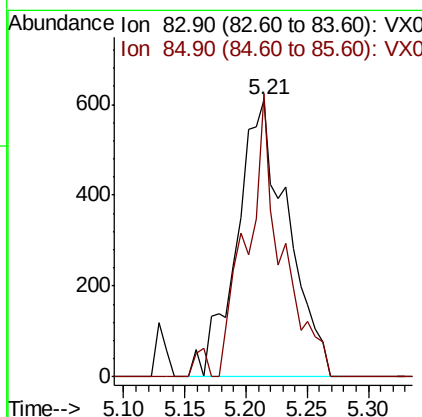
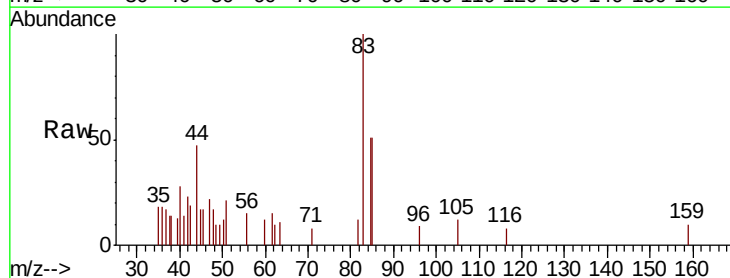
Instrument :
MSVOA_X
ClientSampled :
SAMPLE-16

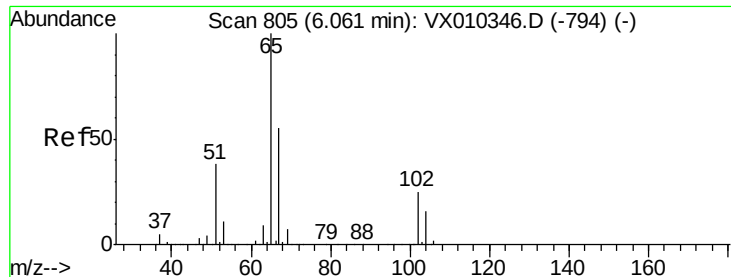
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	40.6	60.8#
71	47.5	37.8	56.8



#30
Chloroform
Concen: 0.432 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	102.0	50.9	76.3#

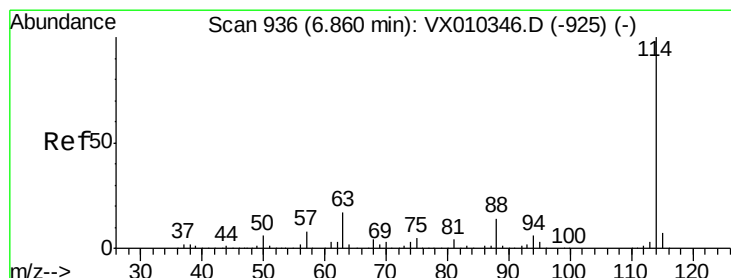
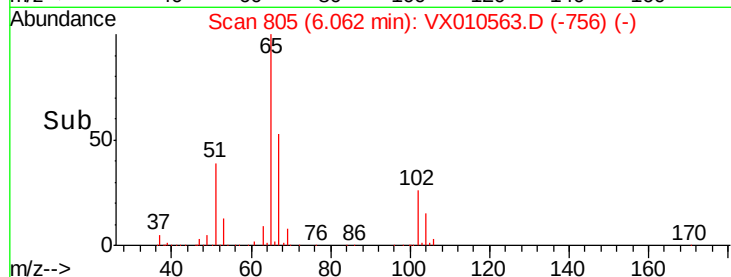
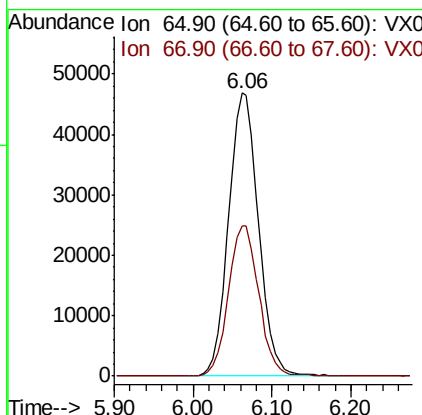
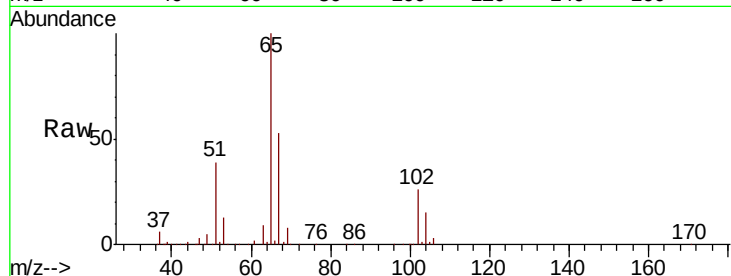




#33
 1,2-Dichloroethane-d4
 Concen: 51.735 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX010563.D
 Acq: 29 Jun 2019 03:04

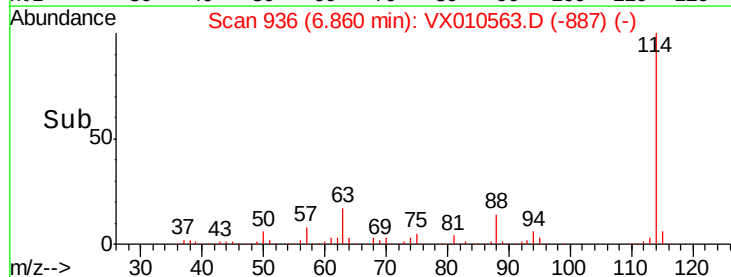
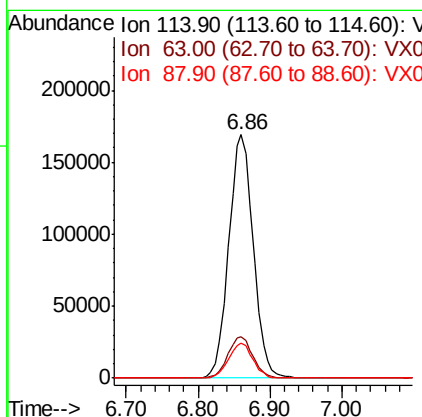
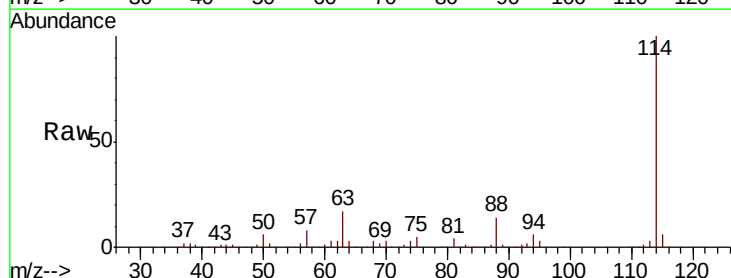
Instrument :
 MSVOA_X
 ClientSampled :
 SAMPLE-16

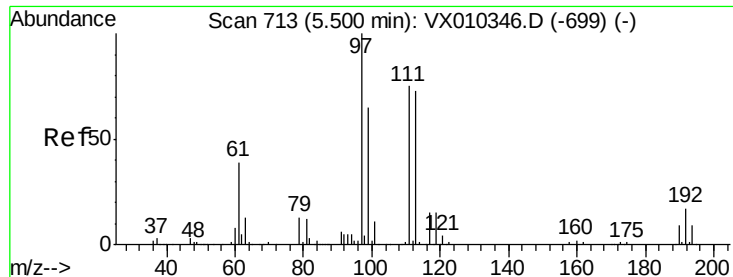
Tot Ion: 65 Resp: 123636
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 110.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010563.D
 Acq: 29 Jun 2019 03:04

Tgt Ion: 114 Resp: 400446
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 33.8
 88 14.5 0.0 27.6

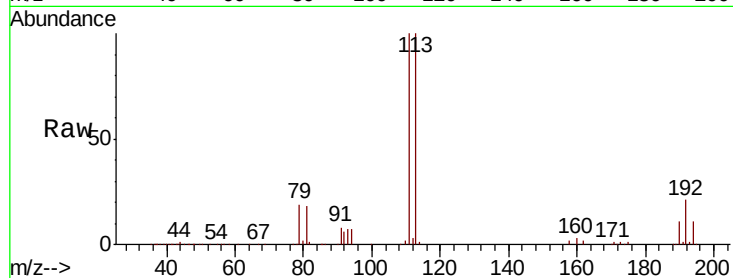




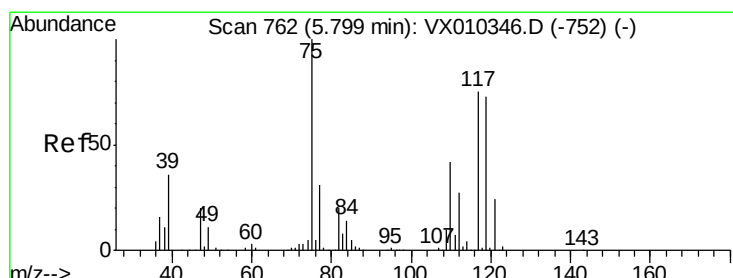
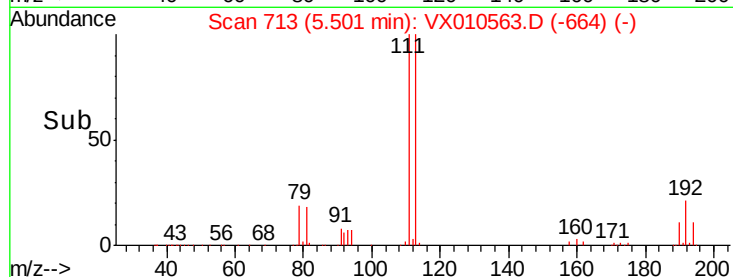
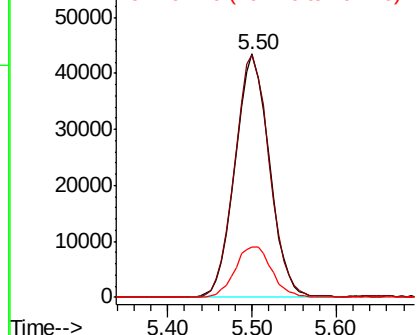
#35
 Dibromofluoromethane
 Concen: 49.100 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX010563.D
 Acq: 29 Jun 2019 03:04

Instrument :
 MSVOA_X
 ClientSampleId :
 SAMPLE-16

Tot Ion:113 Resp: 120298
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.2 121.8
 192 22.1 18.6 27.8

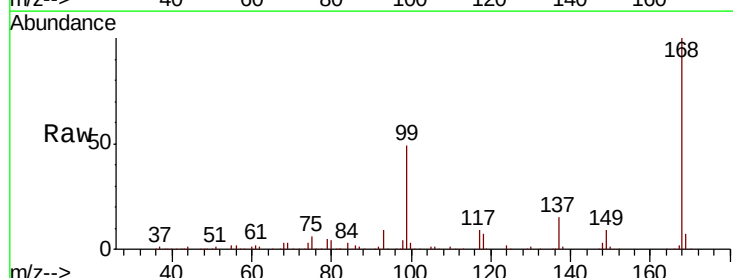


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

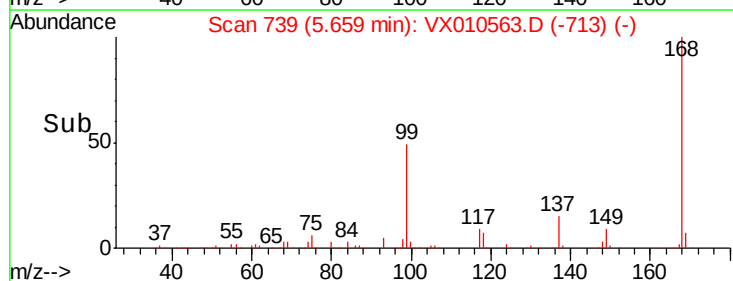
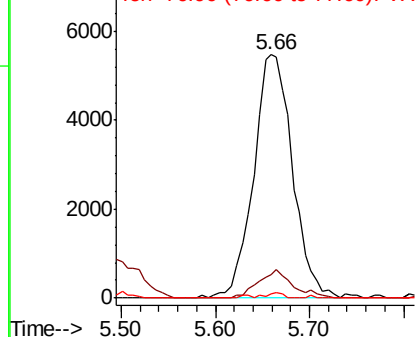


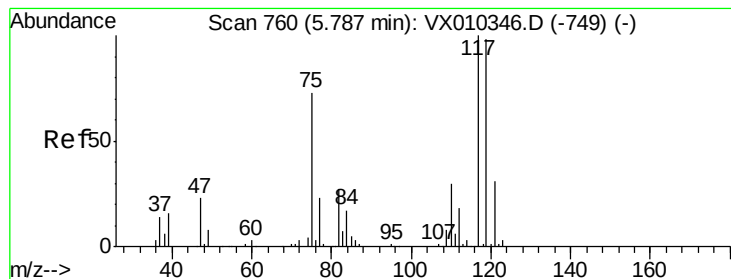
#36
 1,1-Dichloropropene
 Concen: 4.964 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX010563.D
 Acq: 29 Jun 2019 03:04

Tgt Ion: 75 Resp: 15797
 Ion Ratio Lower Upper
 75 100
 110 10.5 20.8 62.2#
 77 1.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.457 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-16

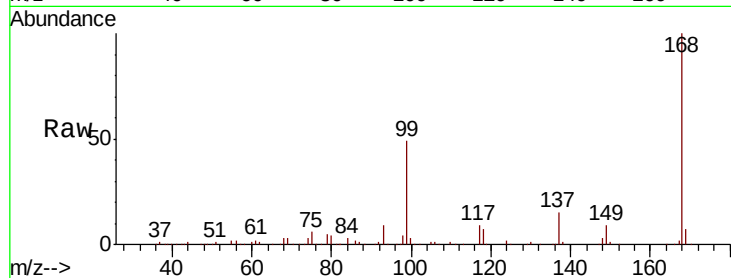
Tot Ion:117 Resp: 22250

Ion Ratio Lower Upper

117 100

119 4.6 78.2 117.4#

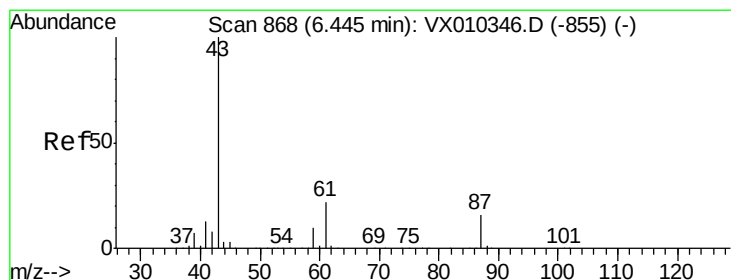
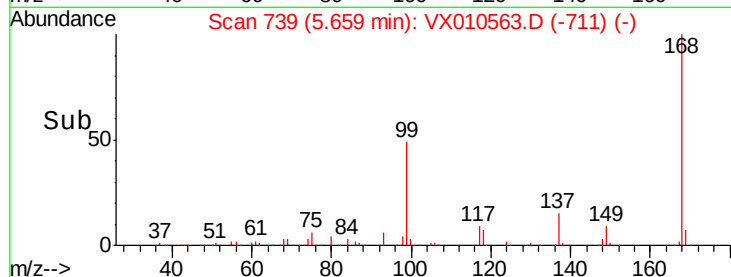
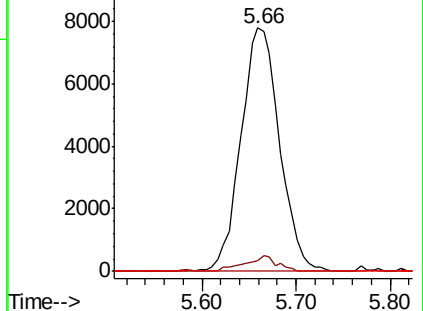
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.820 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

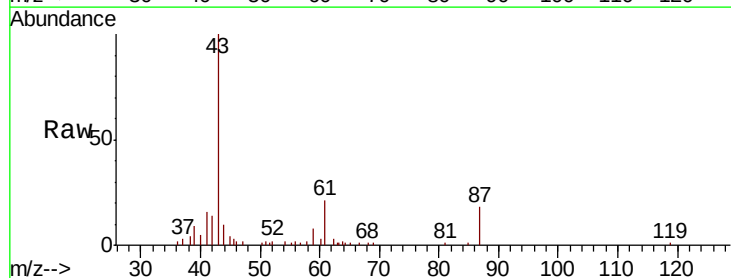
Tgt Ion: 43 Resp: 9859

Ion Ratio Lower Upper

43 100

61 22.8 17.8 26.6

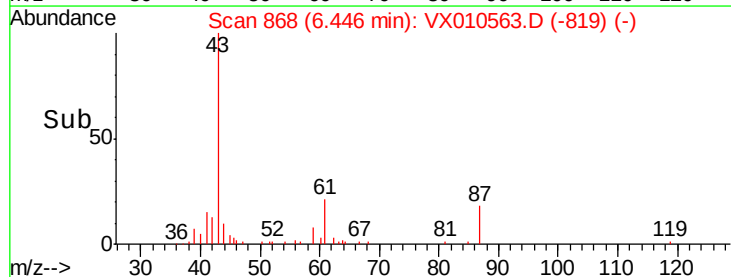
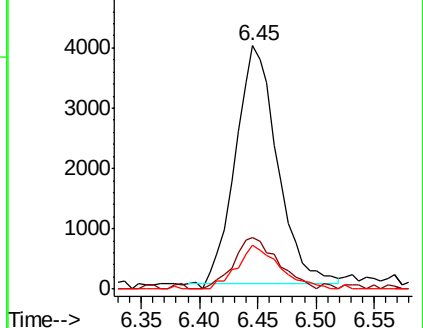
87 18.8 13.0 19.4

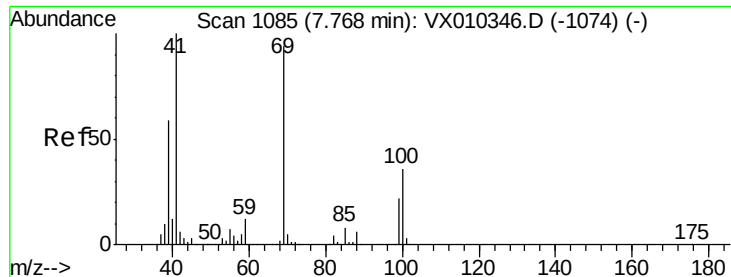


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.156 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

SAMPLE-16

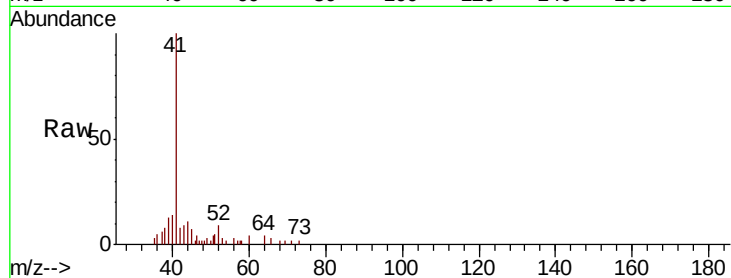
Tot Ion: 41 Resp: 5429

Ion Ratio Lower Upper

41 100

69 0.4 76.1 114.1#

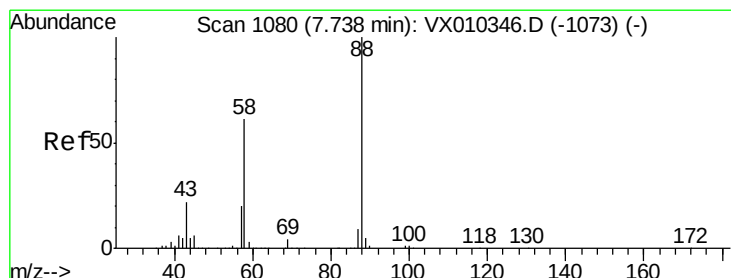
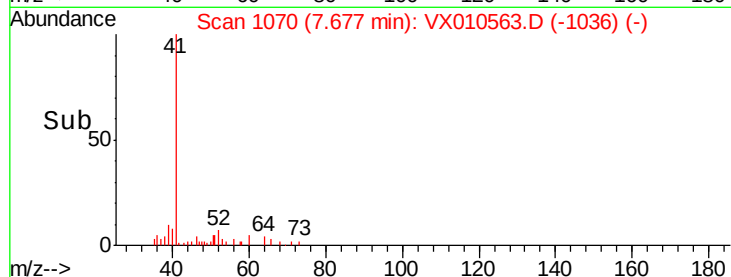
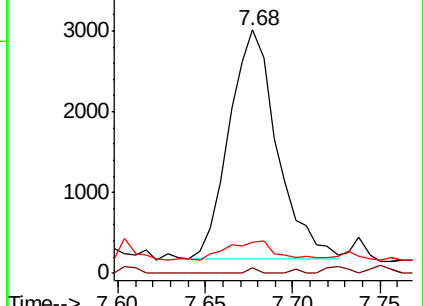
39 0.0 47.6 71.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 0.896 ug/l

RT: 7.82 min Scan# 1093

Delta R.T. 0.08 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

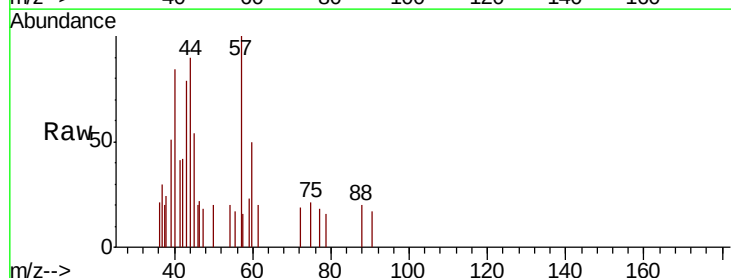
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

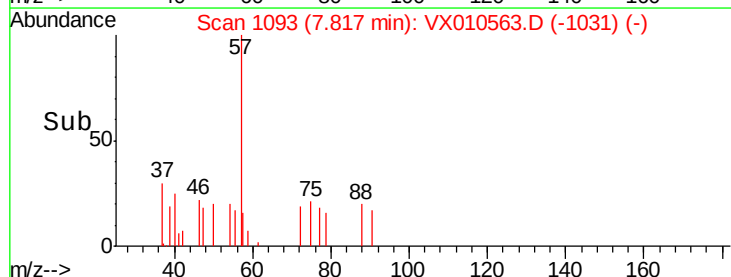
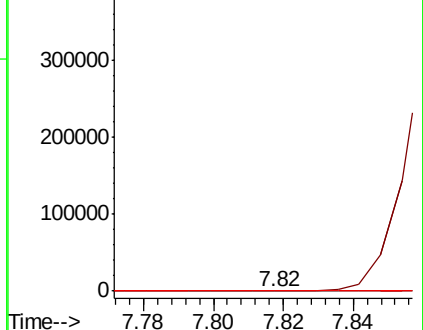
58 0.0 49.5 74.3#

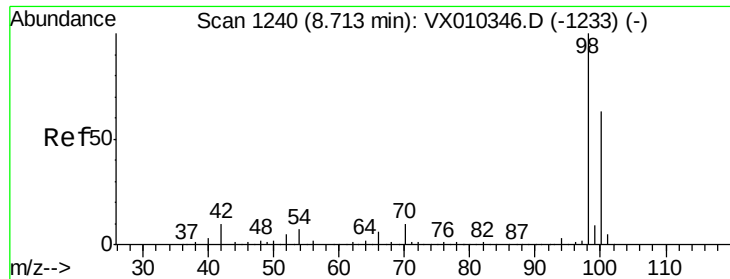


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

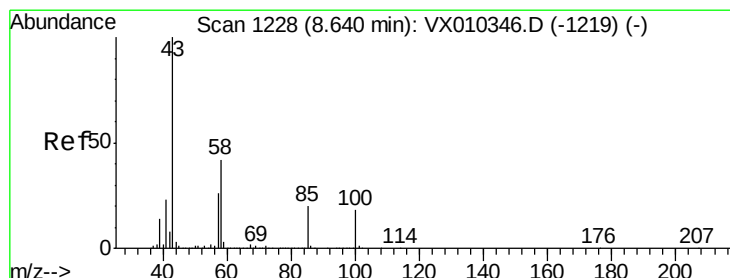
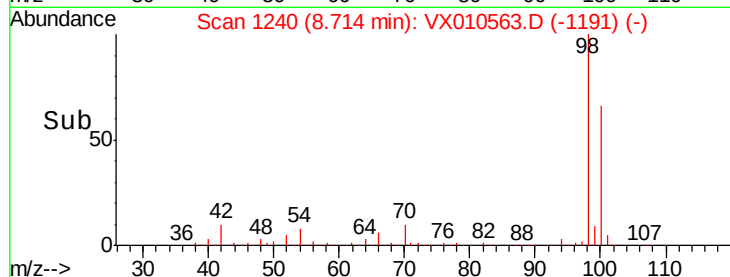
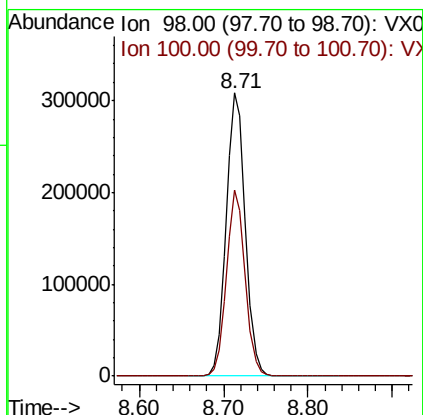
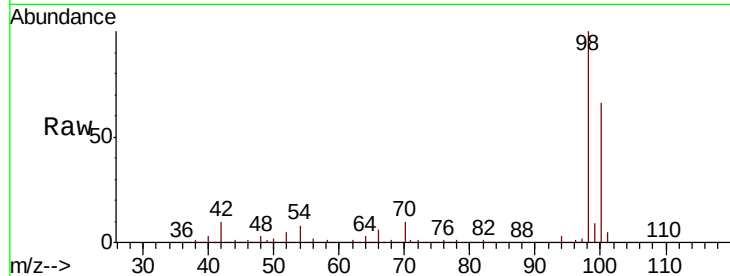




#50
Toluene-d8
Concen: 51.110 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

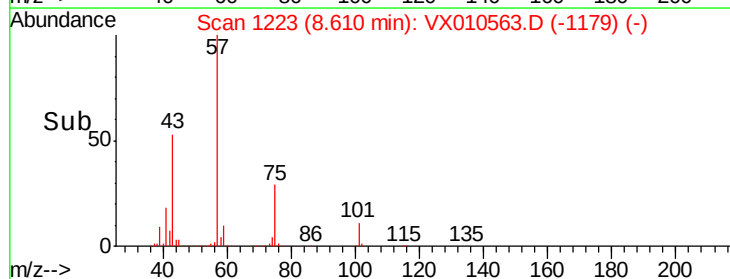
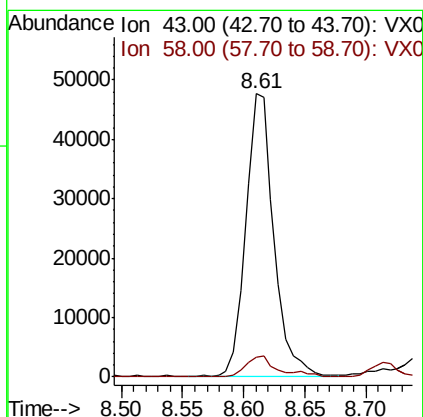
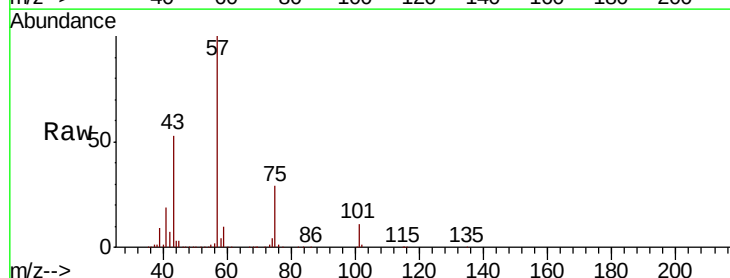
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

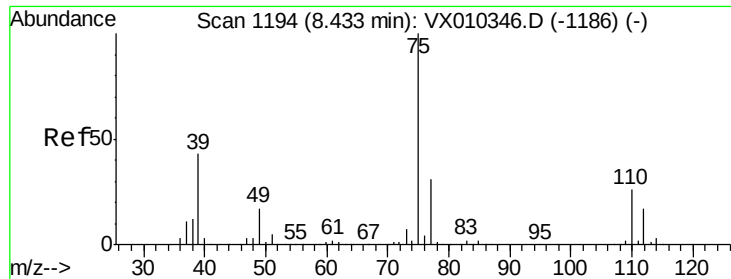
Tot Ion: 98 Resp: 479076
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 21.739 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion: 43 Resp: 75306
Ion Ratio Lower Upper
43 100
58 8.8 33.5 50.3#





#54

cis-1,3-Dichloropropene

Concen: 10.540 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

SAMPLE-16

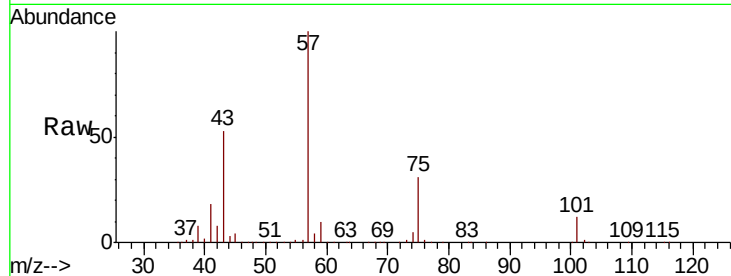
Tot Ion: 75 Resp: 42271

Ion Ratio Lower Upper

75 100

77 0.8 25.2 37.8#

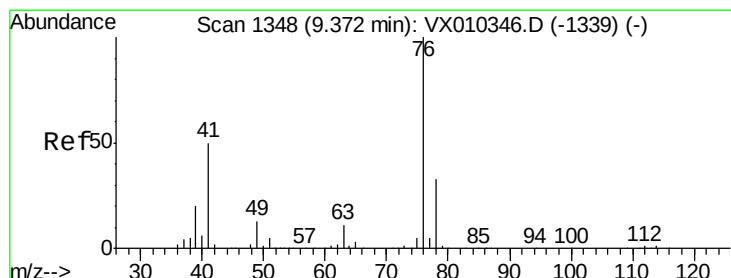
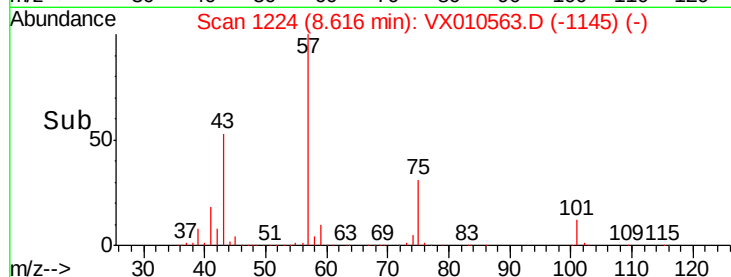
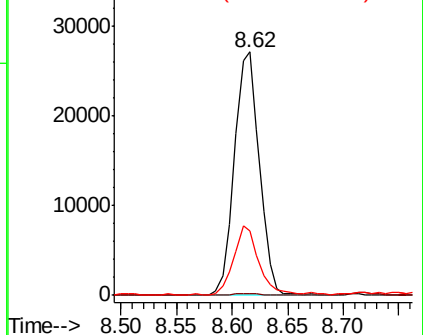
39 25.9 34.5 51.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 2.352 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX010563.D

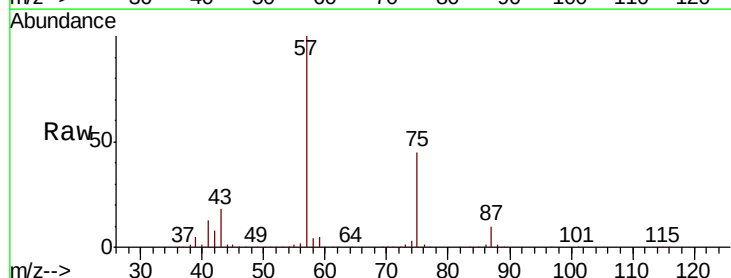
Acq: 29 Jun 2019 03:04

Tgt Ion: 76 Resp: 9830

Ion Ratio Lower Upper

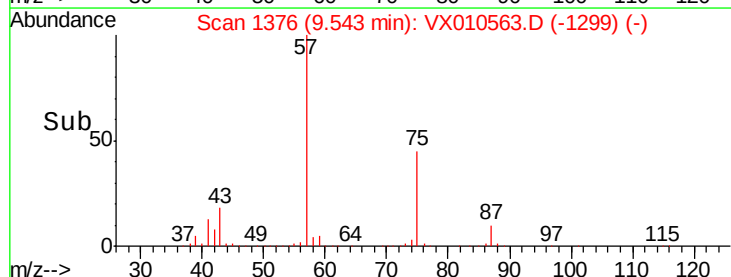
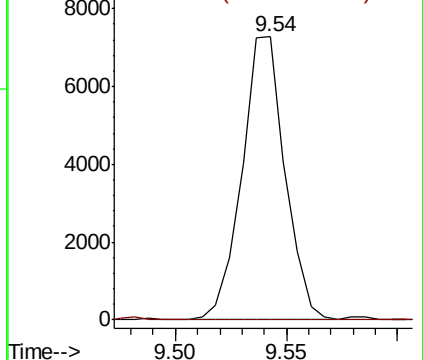
76 100

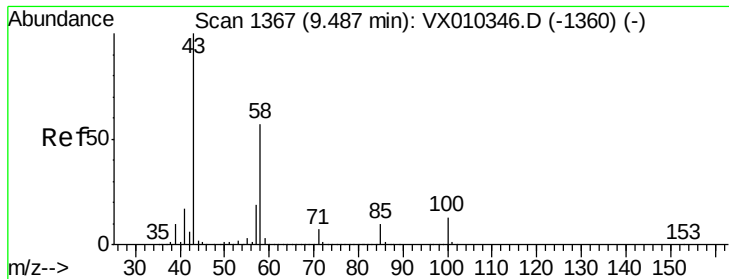
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

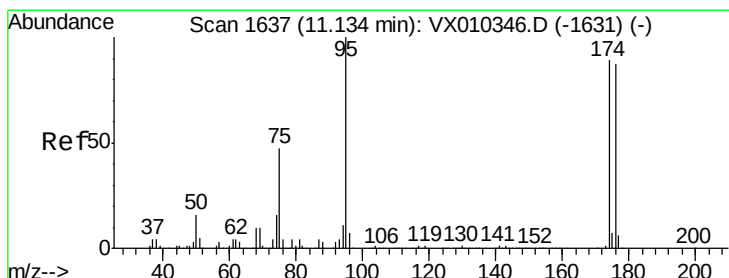
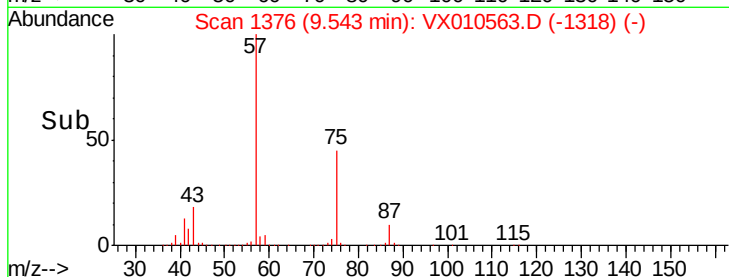
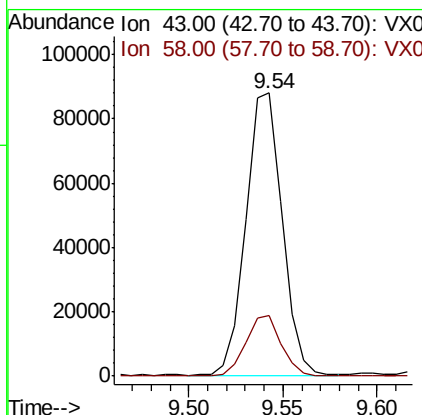
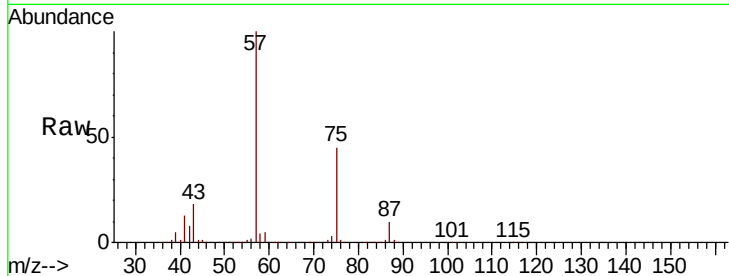




#59
2-Hexanone
Concen: 43.012 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.06 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

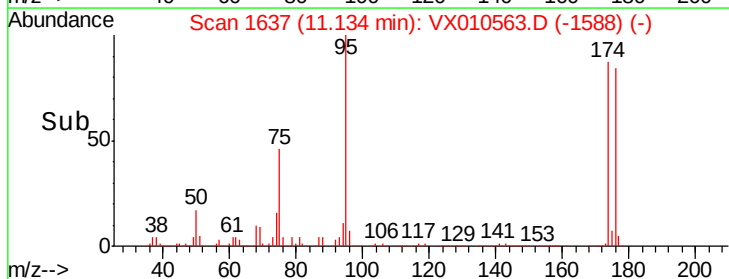
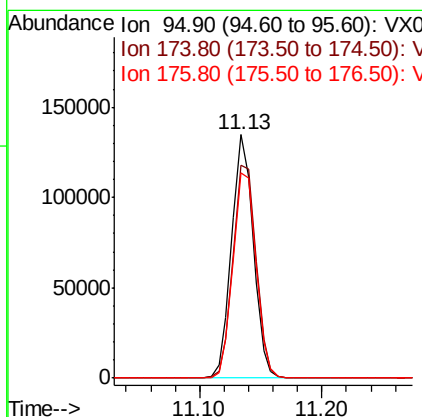
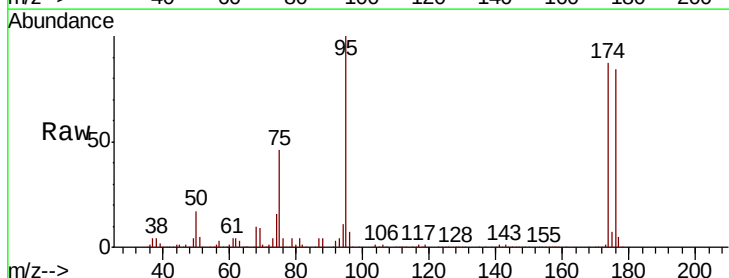
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

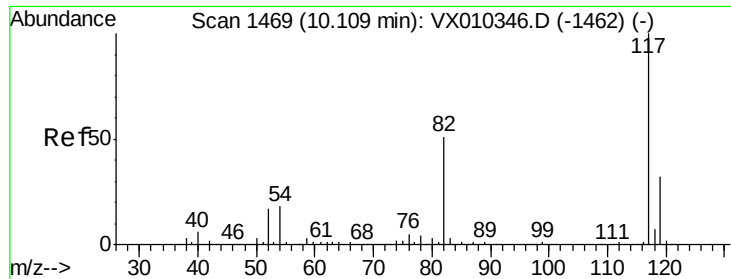
Tot Ion: 43 Resp: 117263
Ion Ratio Lower Upper
43 100
58 21.6 29.0 87.1#



#62
4-Bromofluorobenzene
Concen: 48.723 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion: 95 Resp: 164883
Ion Ratio Lower Upper
95 100
174 93.5 0.0 187.6
176 89.8 0.0 184.0

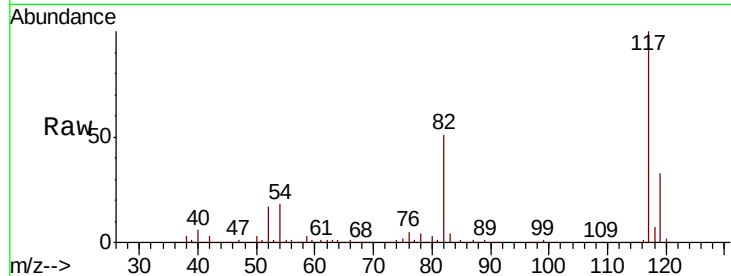




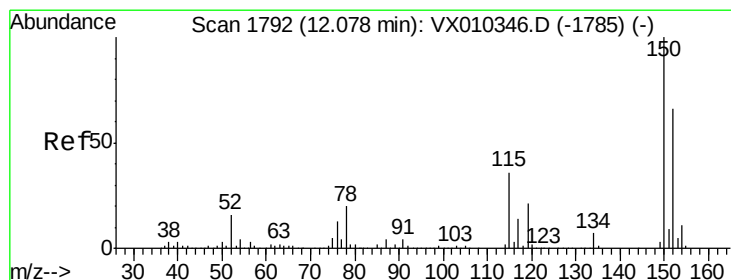
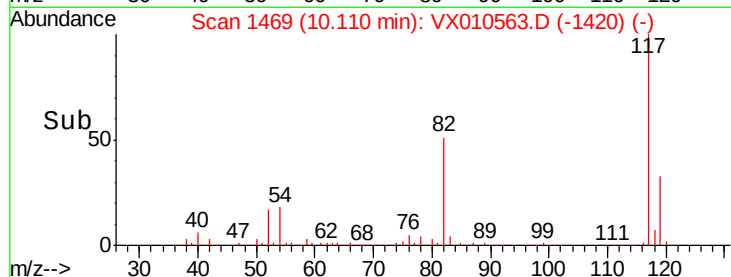
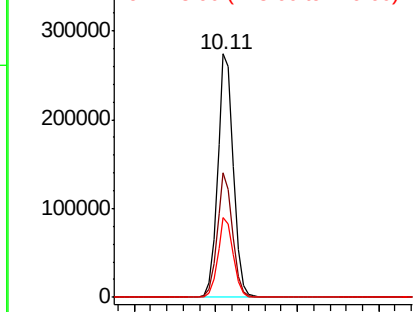
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

Tot Ion:117 Resp: 370661
Ion Ratio Lower Upper
117 100
82 51.3 41.2 61.8
119 32.5 25.5 38.3

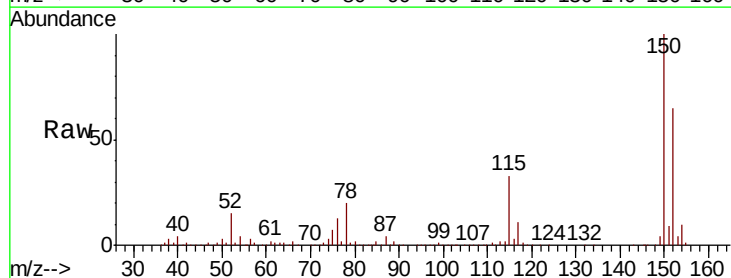


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

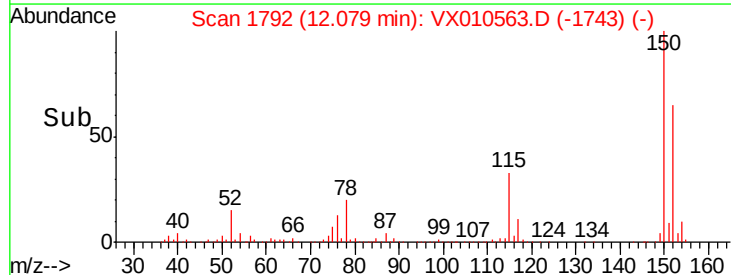
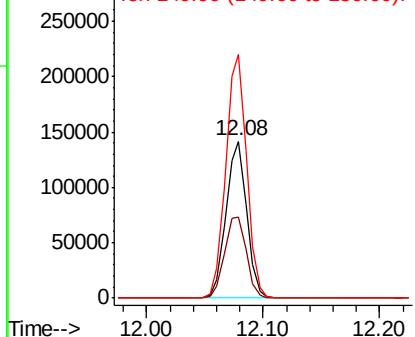


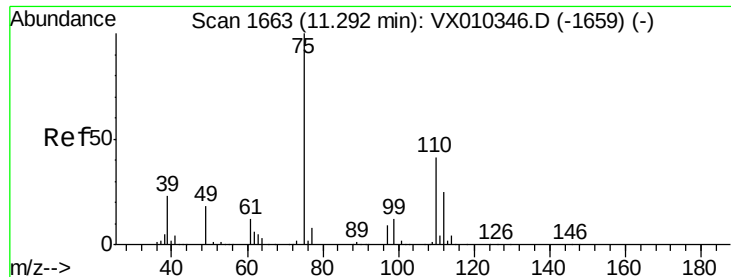
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion:152 Resp: 173749
Ion Ratio Lower Upper
152 100
115 54.6 38.6 115.7
150 156.6 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.725 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010563.D

Acq: 29 Jun 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

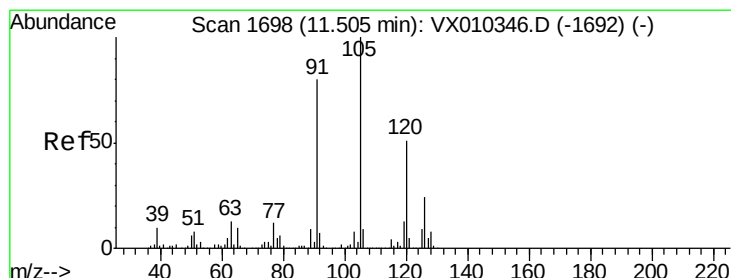
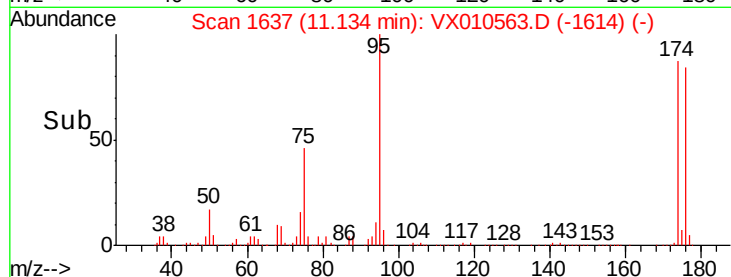
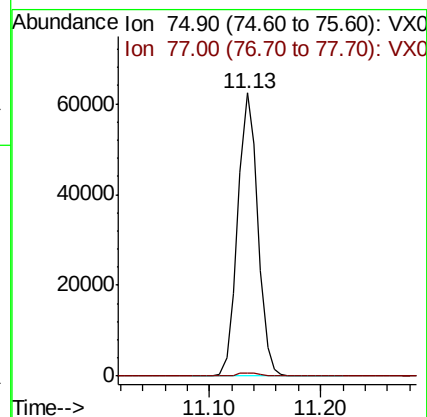
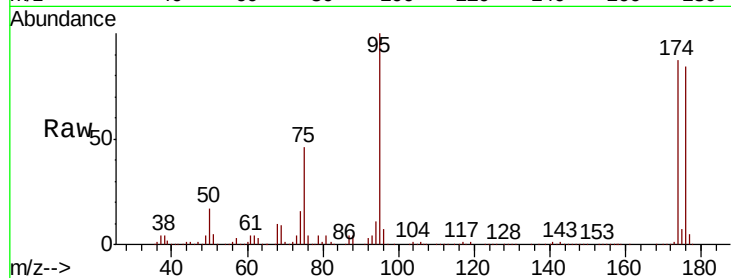
SAMPLE-16

Tot Ion: 75 Resp: 78284

Ion Ratio Lower Upper

75 100

77 1.4 22.6 67.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.379 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX010563.D

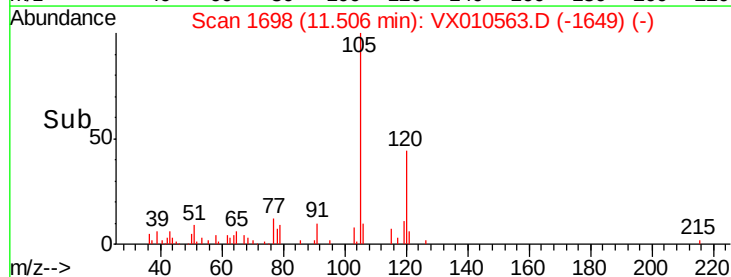
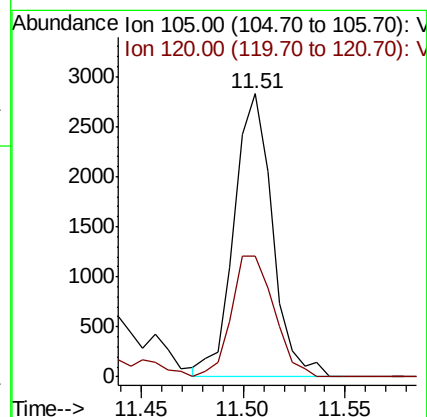
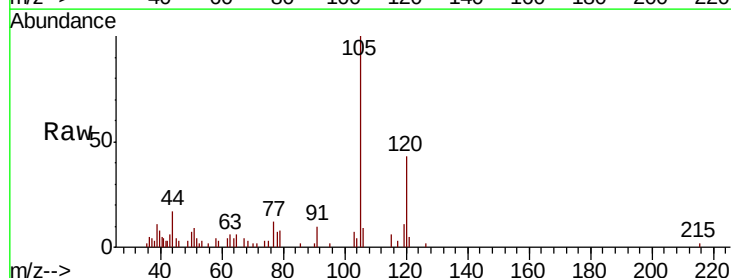
Acq: 29 Jun 2019 03:04

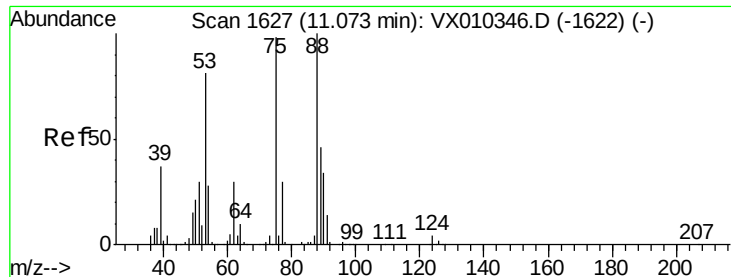
Tgt Ion: 105 Resp: 3682

Ion Ratio Lower Upper

105 100

120 47.5 25.2 75.6

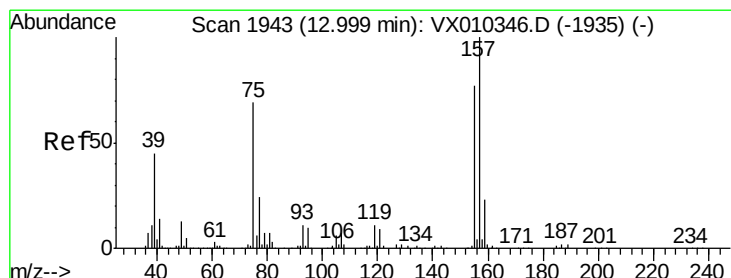
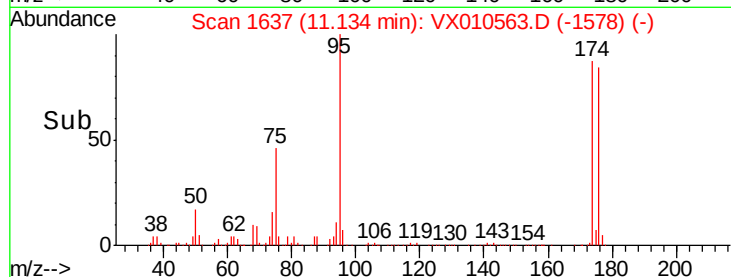
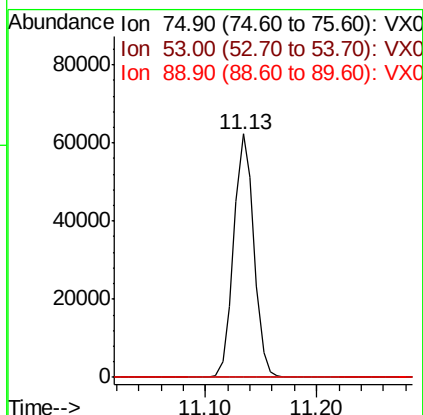
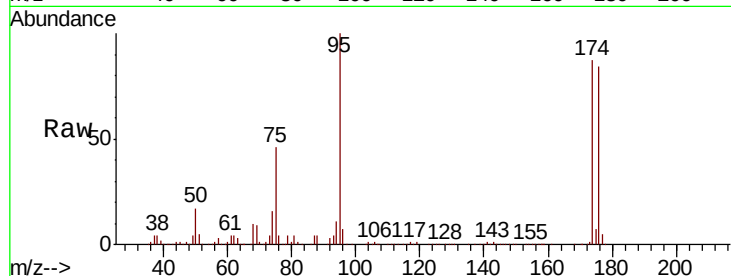




#81
trans-1,4-Dichloro-2-butene
Concen: 57.681 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

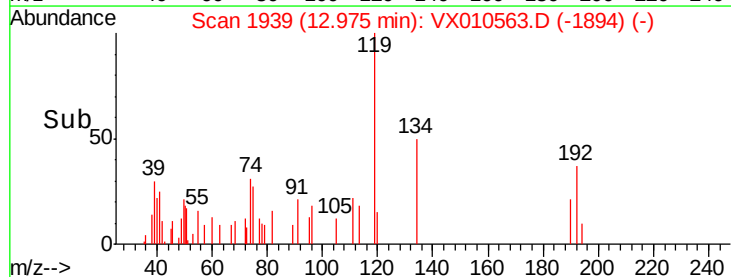
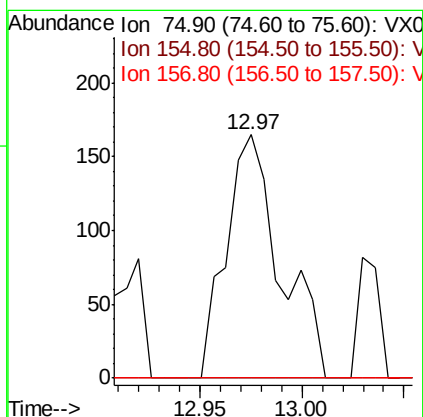
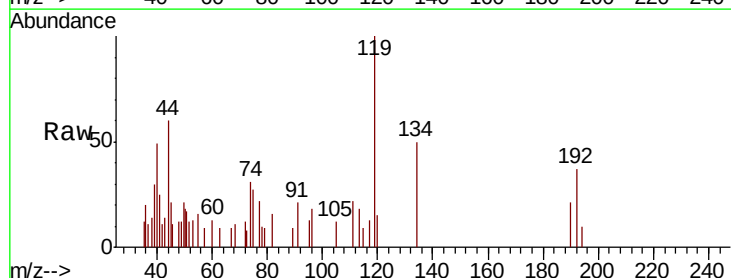
Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

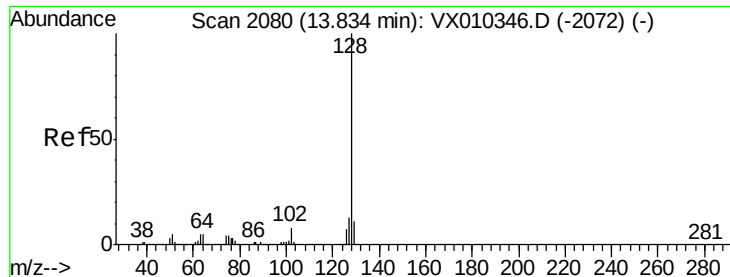
Tot Ion: 75 Resp: 78284
Ion Ratio Lower Upper
75 100
53 0.1 66.1 99.1#
89 0.0 37.8 56.6#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.364 ug/l
RT: 12.97 min Scan# 1939
Delta R.T. -0.02 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Tgt Ion: 75 Resp: 306
Ion Ratio Lower Upper
75 100
155 0.0 54.4 163.1#
157 0.0 69.5 208.3#





#95
Naphthalene
Concen: 0.432 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX010563.D
Acq: 29 Jun 2019 03:04

Instrument :
MSVOA_X
ClientSampleId :
SAMPLE-16

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.4
129	13.7	8.9	13.3

