

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO051120\
 Data File : VX016153.D
 Acq On : 11 May 2020 16:50
 Operator : JC/SP
 Sample : PB128761ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#03

Quant Time: May 12 06:59:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	292415	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	482271	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	476559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	245316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	176471	45.86	ug/l	0.00
Spiked Amount			Recovery	=	91.72%	
35) Dibromofluoromethane	5.47	113	144599	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
50) Toluene-d8	8.70	98	598131	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	11.12	95	239336	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	

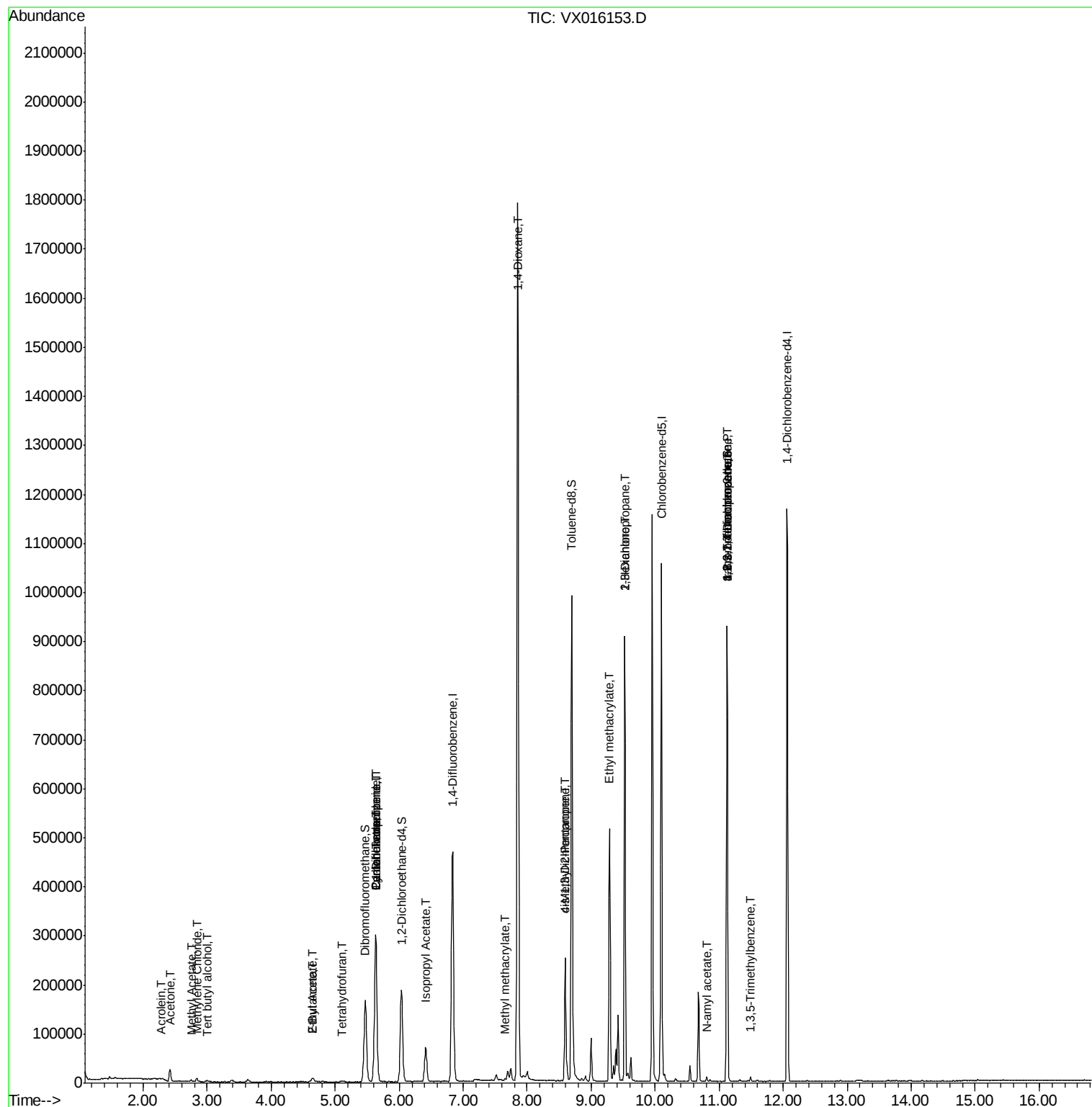
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1639	1.684	ug/l #	90
13) Acrolein	2.28	56	345	0.567	ug/l #	72
16) Acetone	2.42	43	24934	14.523	ug/l	98
17) Carbon Disulfide	2.56	76	1586	Below Cal		97
18) Methyl Acetate	2.75	43	4081	0.967	ug/l	100
20) Methylene Chloride	2.84	84	3411	0.964	ug/l	96
25) 2-Butanone	4.64	43	6963	2.517	ug/l	99
29) Tetrahydrofuran	5.10	42	2596	1.416	ug/l	92
31) Cyclohexane	5.64	56	5623	1.052	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	21763	4.584	ug/l #	49
37) Ethyl Acetate	4.64	43	6963	1.265	ug/l #	71
38) Carbon Tetrachloride	5.64	117	28004	5.804	ug/l #	14
43) Isopropyl Acetate	6.42	43	94224	10.733	ug/l	99
48) Methyl methacrylate	7.65	41	5098	1.226	ug/l #	14
49) 1,4-Dioxane	7.85	88	267	2.676	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	91608	17.052	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	43229	7.136	ug/l #	57
56) Ethyl methacrylate	9.29	69	1191	0.214	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7627	1.283	ug/l #	49
59) 2-Hexanone	9.52	43	97396	23.085	ug/l #	49
74) N-amyl acetate	10.80	43	4423	0.531	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.12	83	199	2.109	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	118543	21.295	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3552	0.236	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.12	75	118543	50.747	ug/l #	13

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

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Instrument :
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ClientSampleId :
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Quant Time: May 12 06:59:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

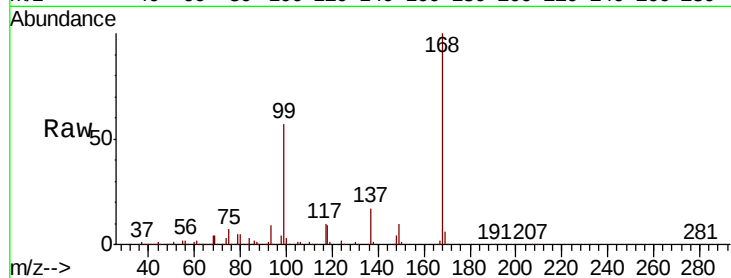
PB128761ZHE#03

Tot Ion:168 Resp: 292415

Ion Ratio Lower Upper

168 100

99 57.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

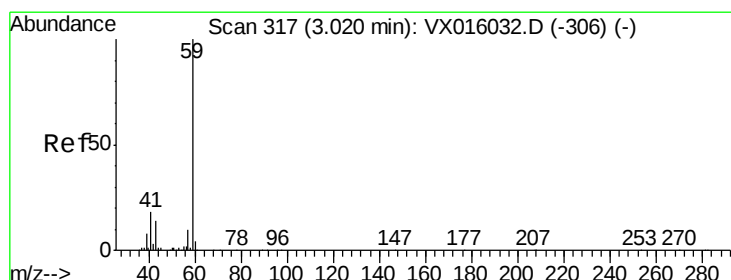
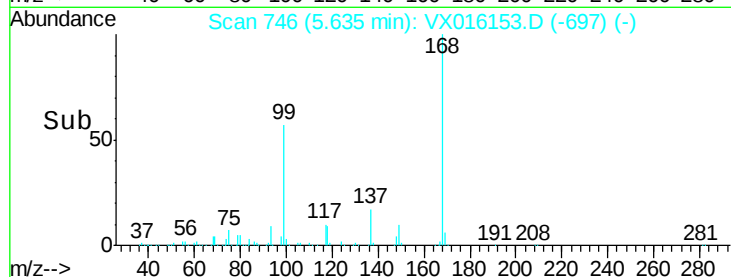
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.684 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016153.D

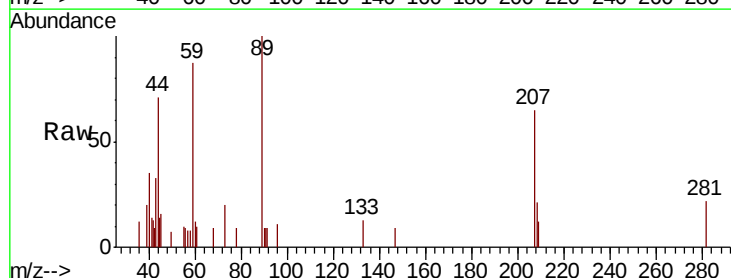
Acq: 11 May 2020 16:50

Tgt Ion: 59 Resp: 1639

Ion Ratio Lower Upper

59 100

57 6.6 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

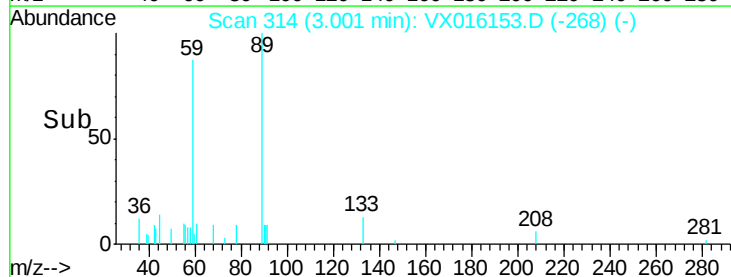
600

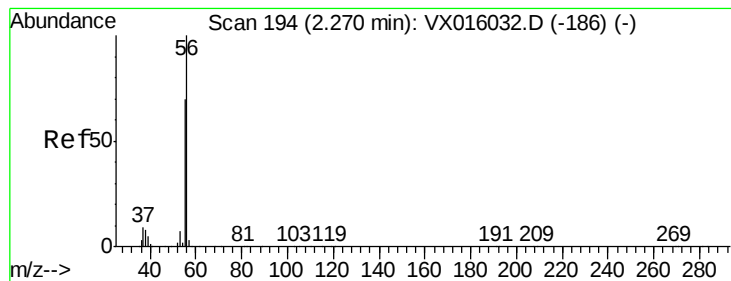
400

200

0

Time-->





#13

Acrolein

Concen: 0.567 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

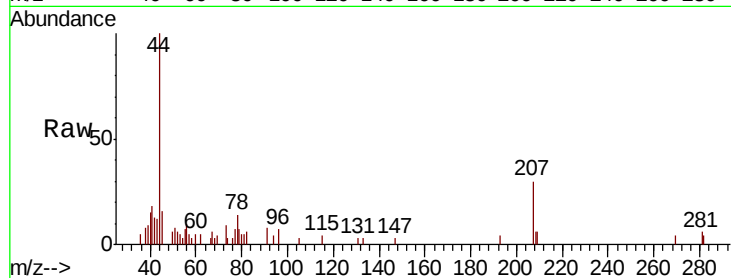
PB128761ZHE#03

Tot Ion: 56 Resp: 345

Ion Ratio Lower Upper

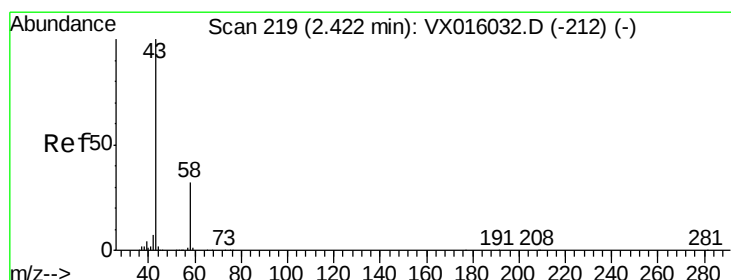
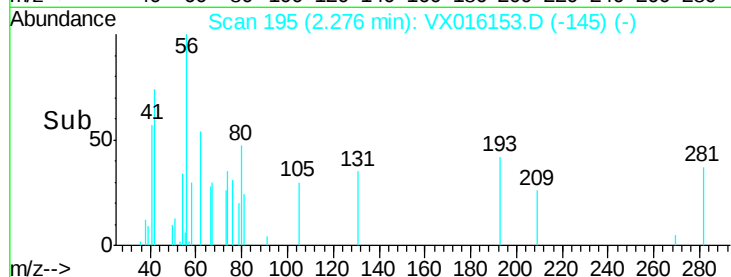
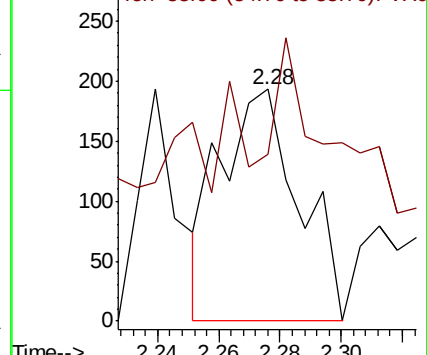
56 100

55 47.2 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 14.523 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016153.D

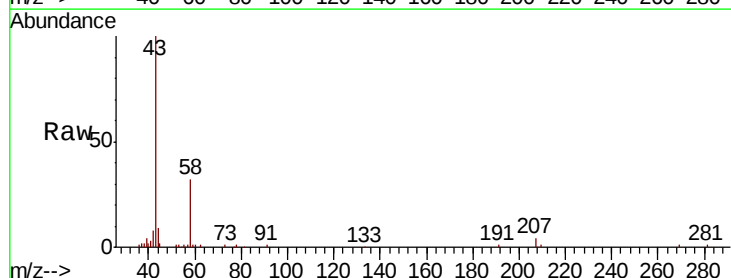
Acq: 11 May 2020 16:50

Tgt Ion: 43 Resp: 24934

Ion Ratio Lower Upper

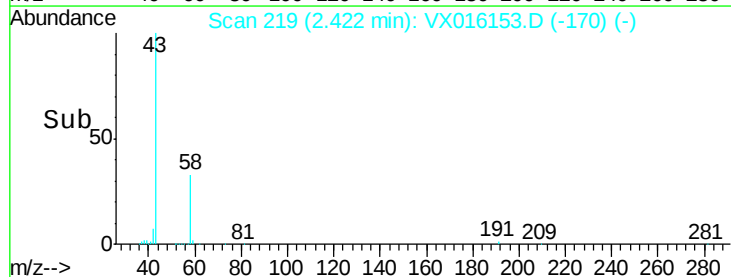
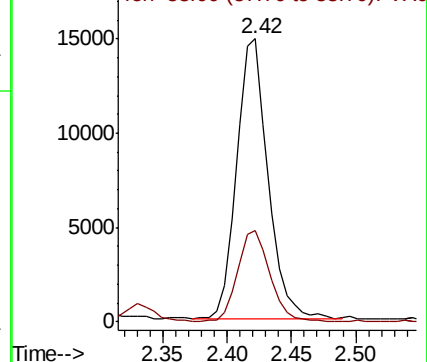
43 100

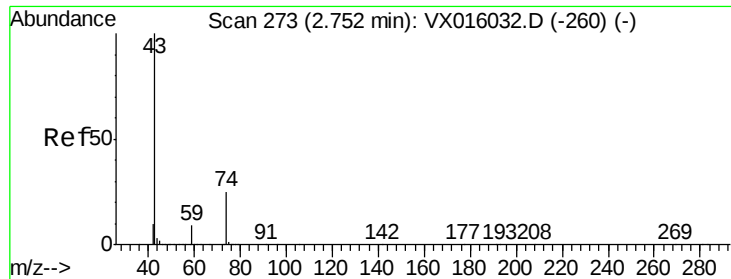
58 32.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

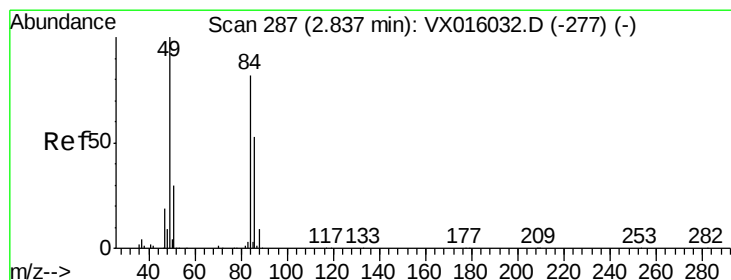
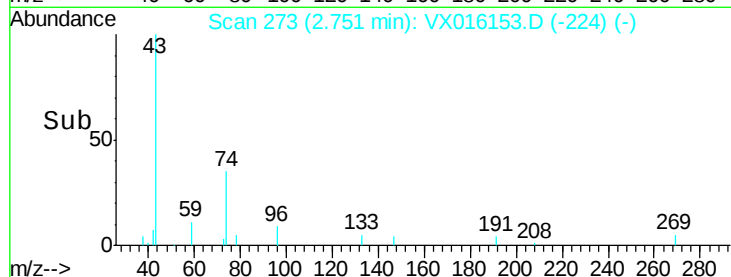
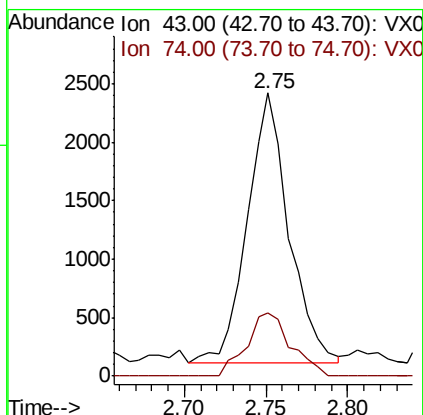
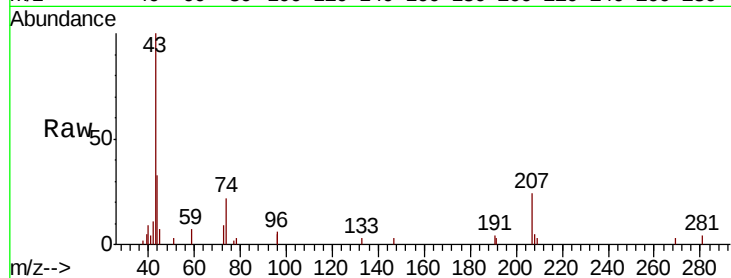




#18
Methyl Acetate
Concen: 0.967 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

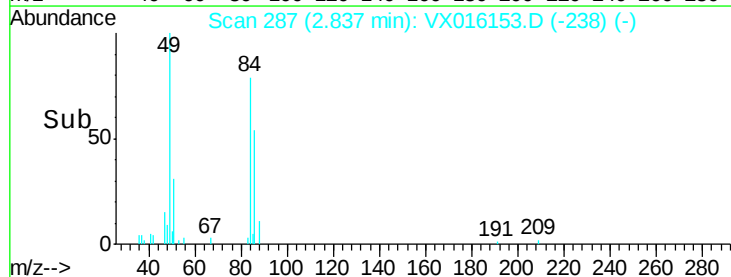
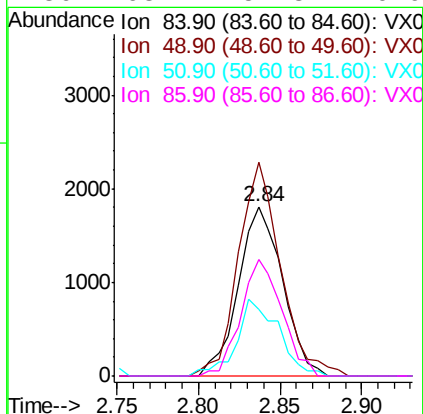
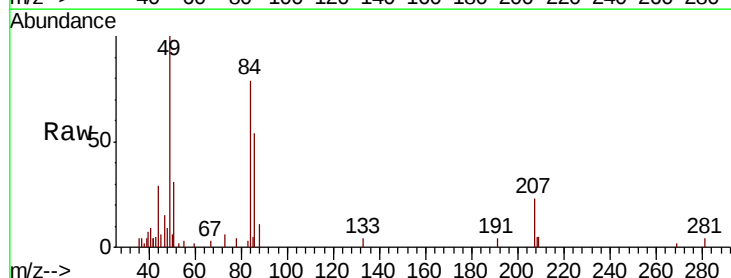
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#03

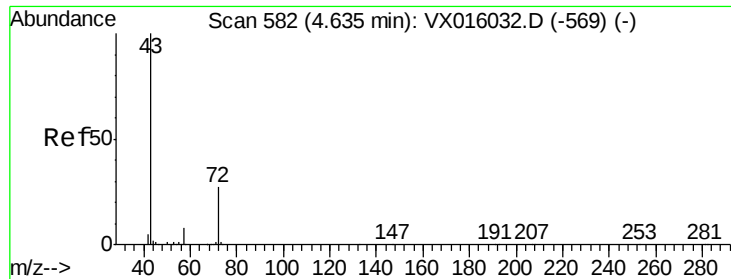
Tot Ion: 43 Resp: 4081
Ion Ratio Lower Upper
43 100
74 25.1 20.2 30.2



#20
Methylene Chloride
Concen: 0.964 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

Tgt Ion: 84 Resp: 3411
Ion Ratio Lower Upper
84 100
49 126.0 97.3 145.9
51 39.5 29.3 43.9
86 68.4 51.3 76.9

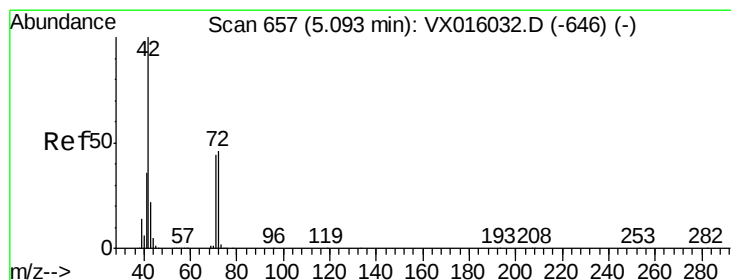
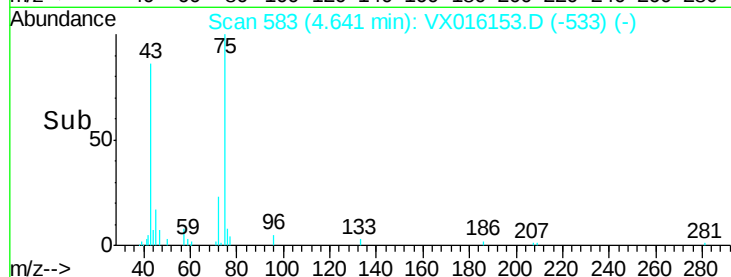
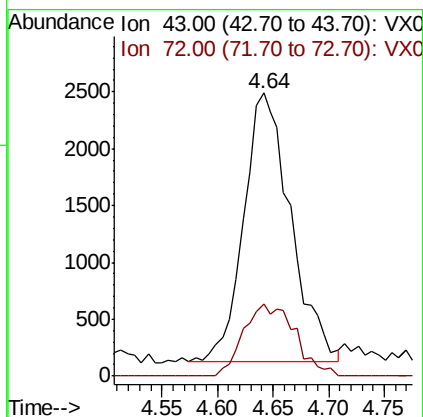
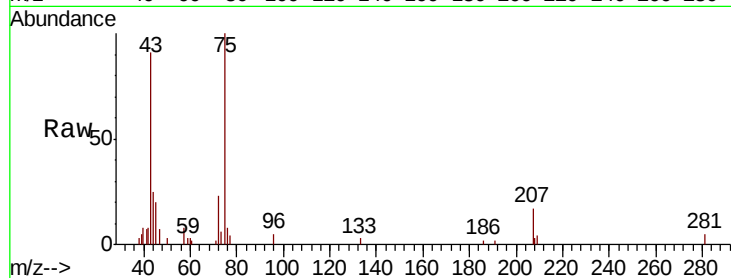




#25
2-Butanone
Concen: 2.517 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

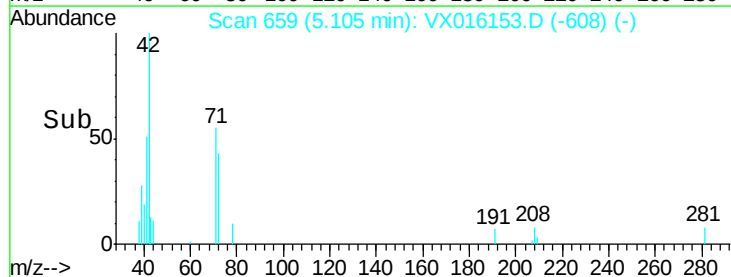
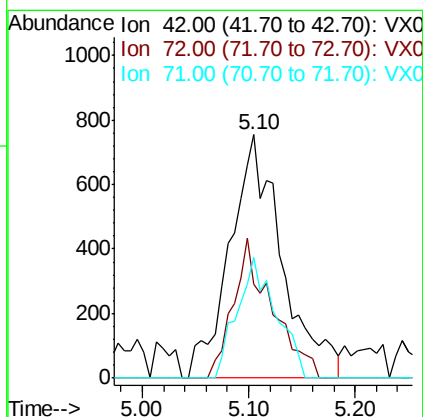
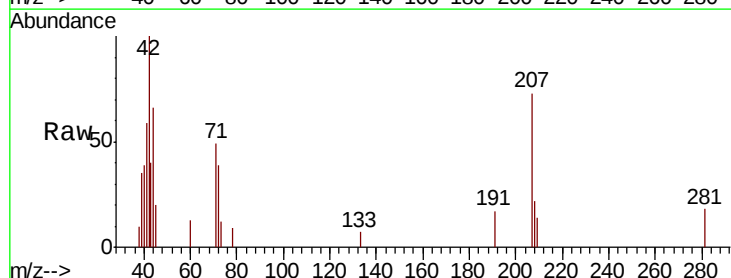
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#03

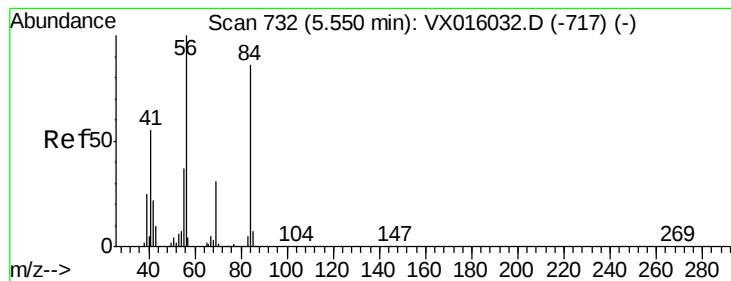
Tot Ion: 43 Resp: 6963
Ion Ratio Lower Upper
43 100
72 26.7 21.8 32.8



#29
Tetrahydrofuran
Concen: 1.416 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

Tgt Ion: 42 Resp: 2596
Ion Ratio Lower Upper
42 100
72 42.5 37.1 55.7
71 37.0 34.5 51.7





#31

Cyclohexane

Concen: 1.052 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

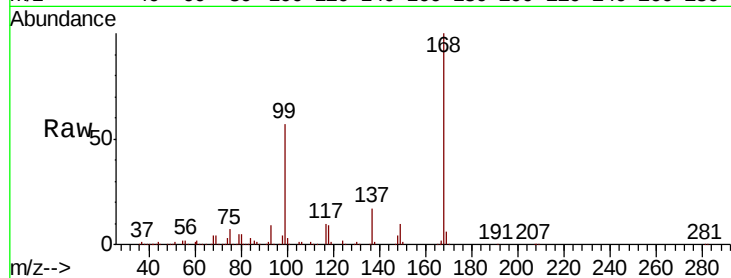
Tot Ion: 56 Resp: 5623

Ion Ratio Lower Upper

56 100

69 189.8 25.0 37.6#

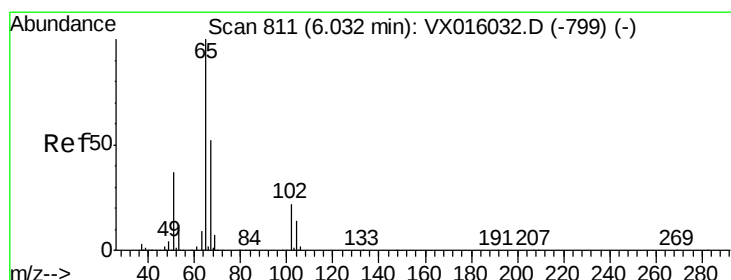
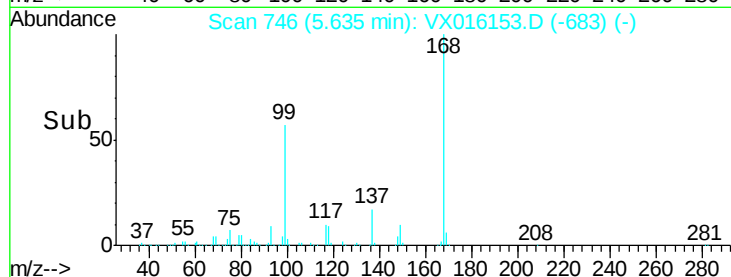
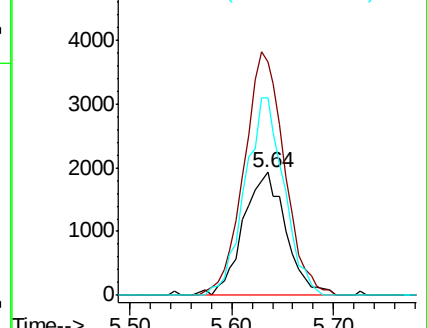
84 161.3 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.862 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016153.D

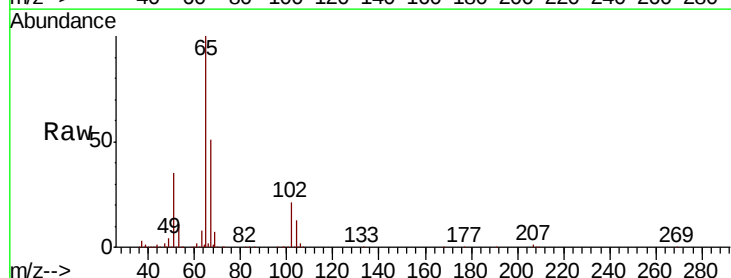
Acq: 11 May 2020 16:50

Tgt Ion: 65 Resp: 176471

Ion Ratio Lower Upper

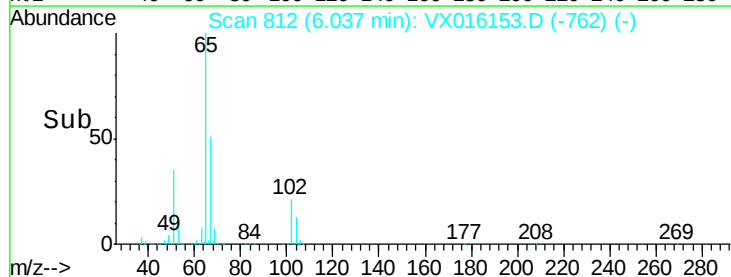
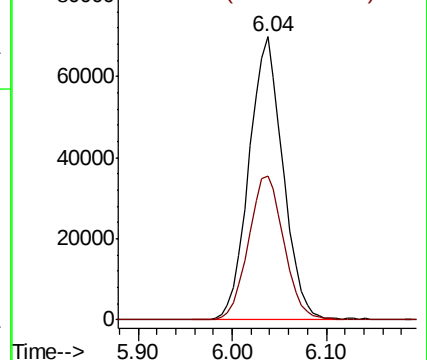
65 100

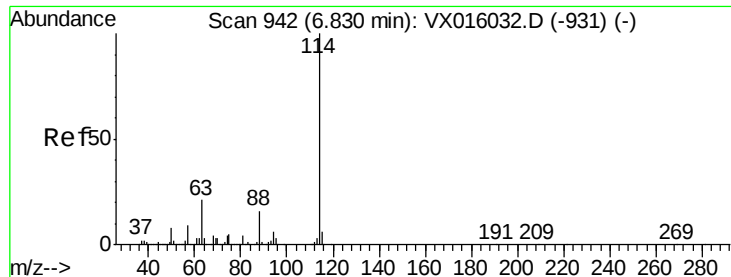
67 53.2 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

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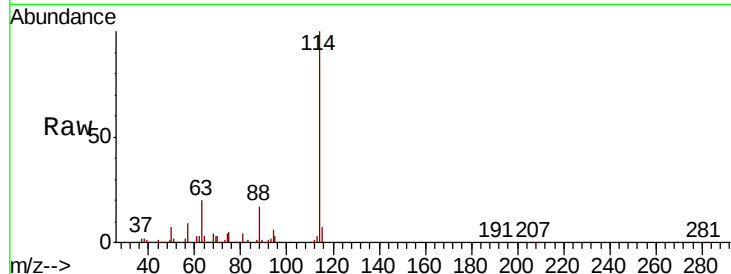
Tot Ion:114 Resp: 482271

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

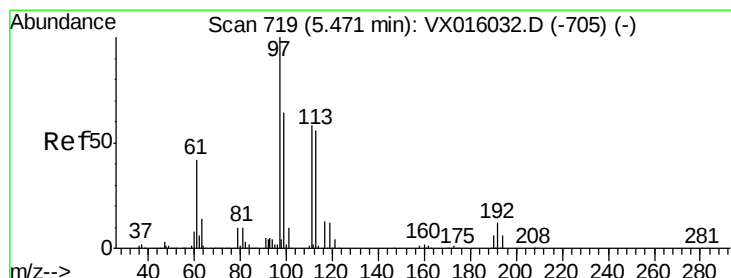
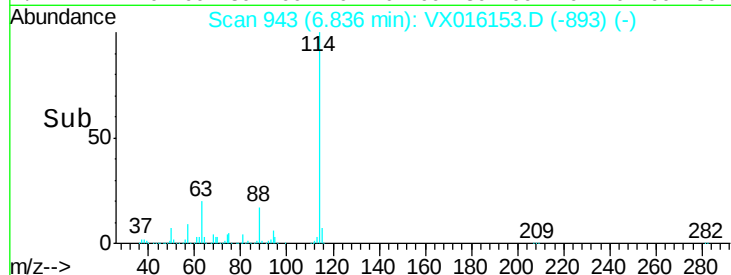
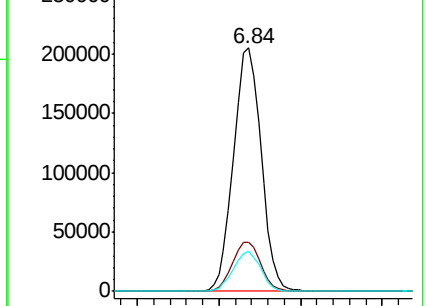
88 16.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.326 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

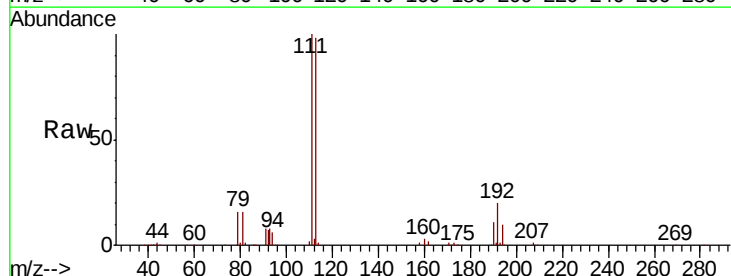
Tgt Ion:113 Resp: 144599

Ion Ratio Lower Upper

113 100

111 102.4 81.6 122.4

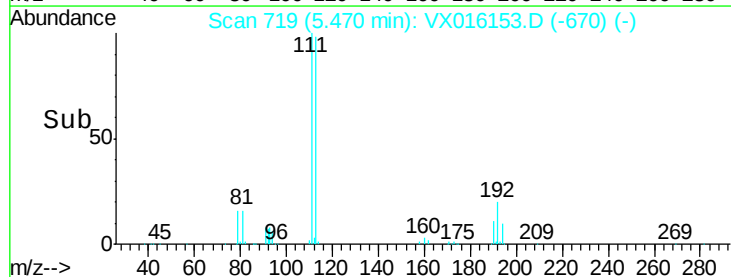
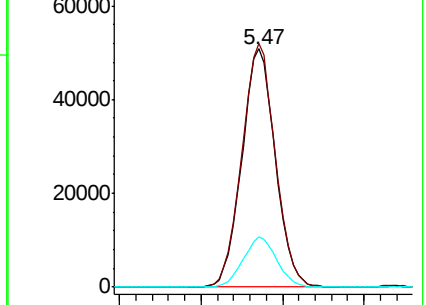
192 21.1 17.0 25.4

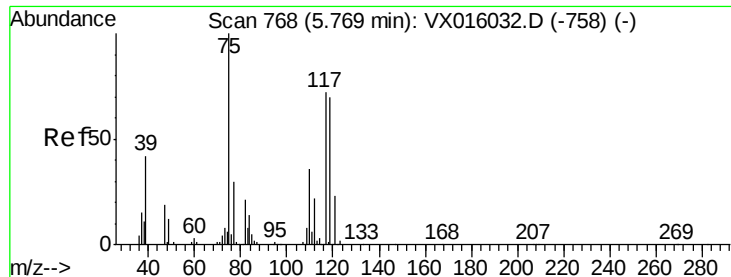


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.584 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

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ClientSampleId :

PB128761ZHE#03

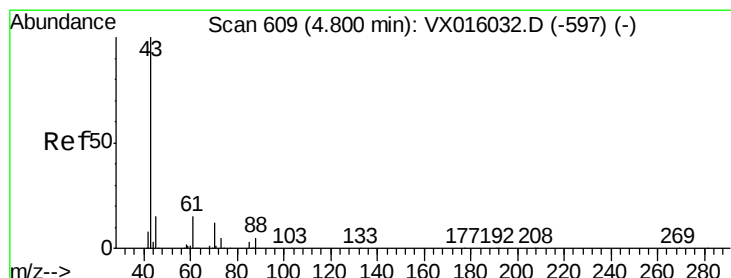
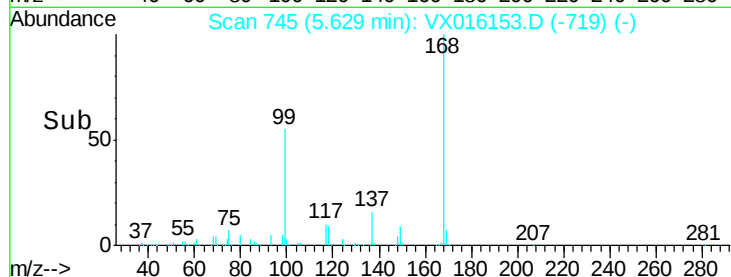
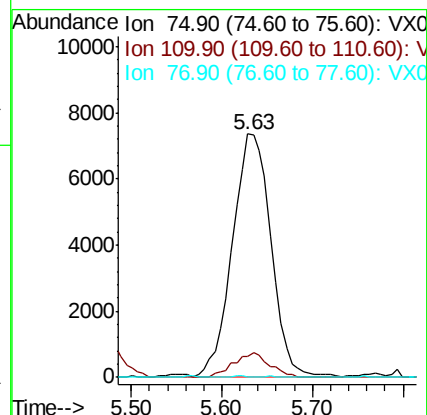
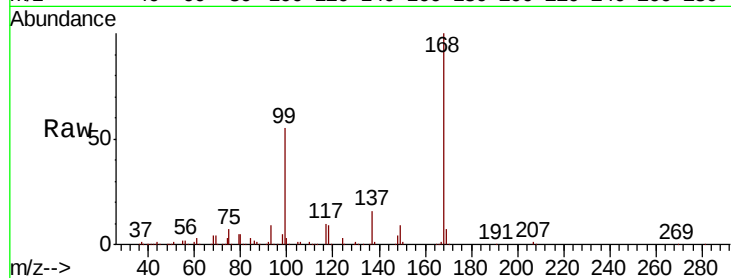
Tot Ion: 75 Resp: 21763

Ion Ratio Lower Upper

75 100

110 9.3 18.1 54.1#

77 0.2 25.0 37.6#



#37

Ethyl Acetate

Concen: 1.265 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

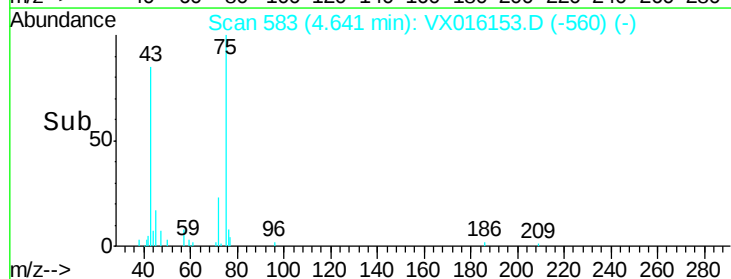
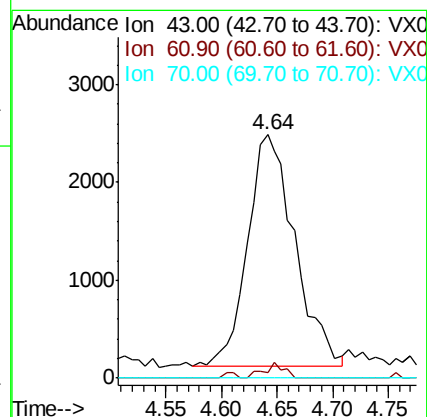
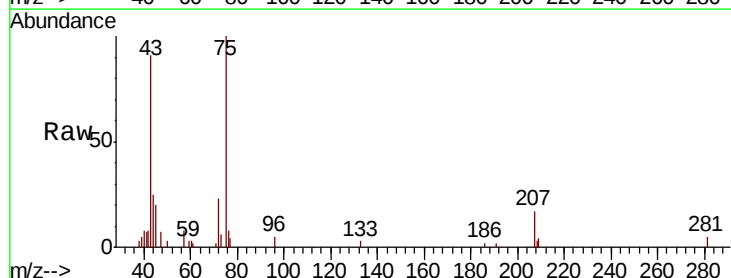
Tgt Ion: 43 Resp: 6963

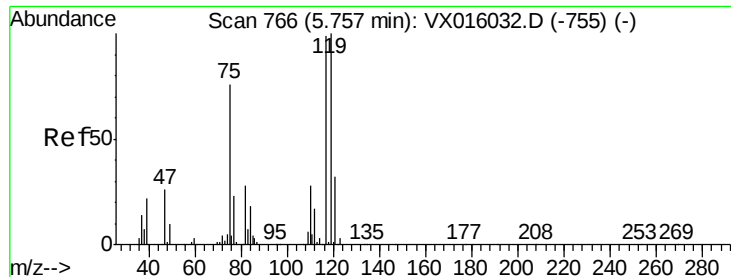
Ion Ratio Lower Upper

43 100

61 2.7 11.7 17.5#

70 0.0 9.3 13.9#





#38

Carbon Tetrachloride

Concen: 5.804 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

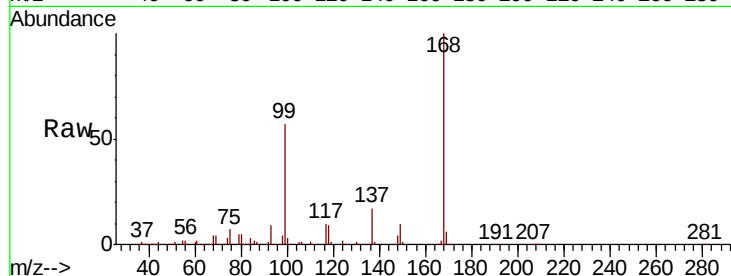
Tot Ion:117 Resp: 28004

Ion Ratio Lower Upper

117 100

119 4.7 80.3 120.5#

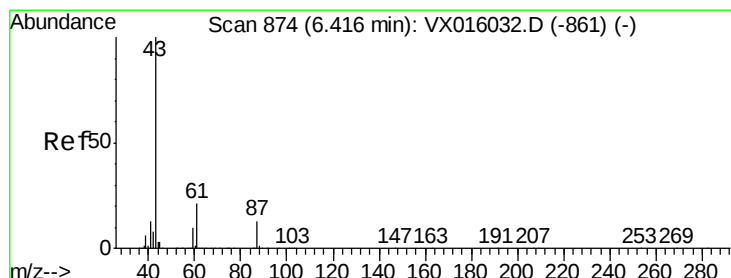
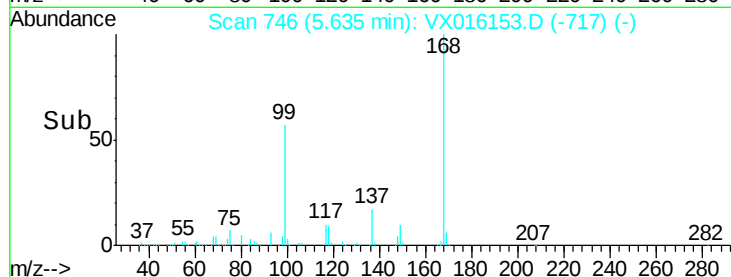
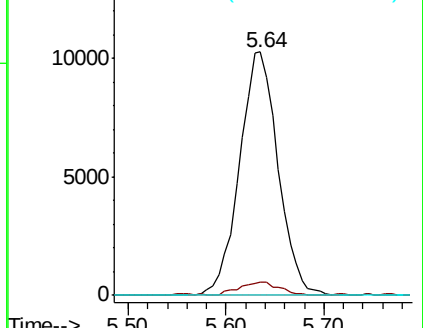
121 0.0 25.7 38.5#



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: 10.733 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

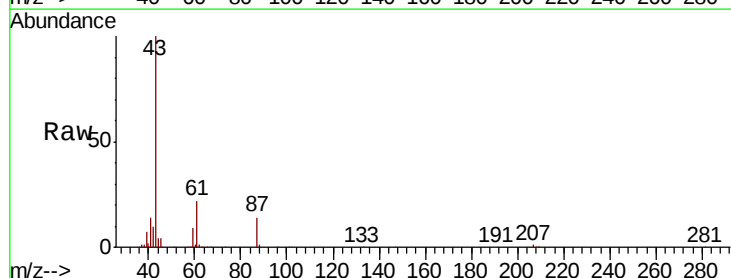
Tgt Ion: 43 Resp: 94224

Ion Ratio Lower Upper

43 100

61 21.4 17.0 25.4

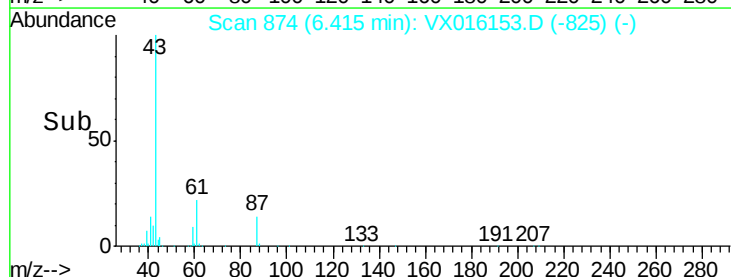
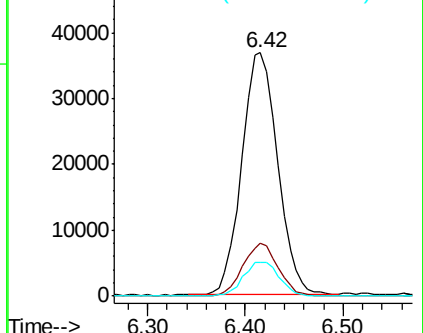
87 14.2 11.0 16.6

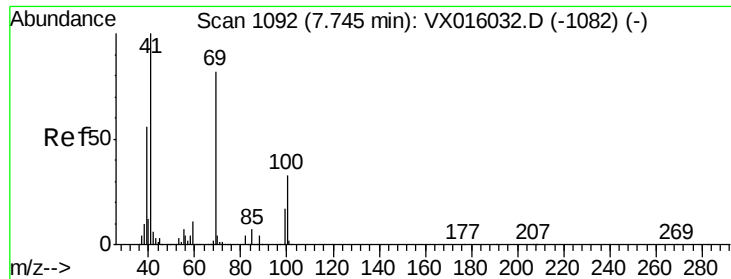


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

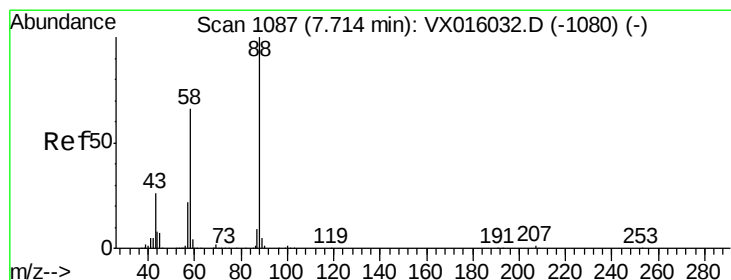
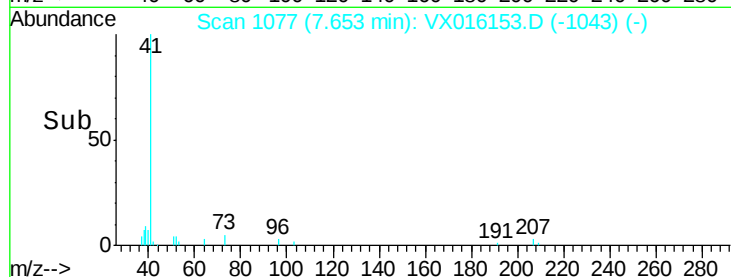
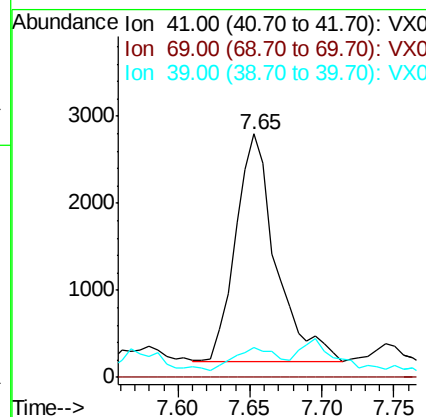
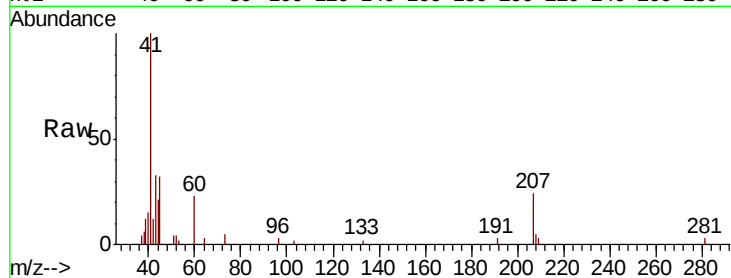




#48
Methyl methacrylate
Concen: 1.226 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

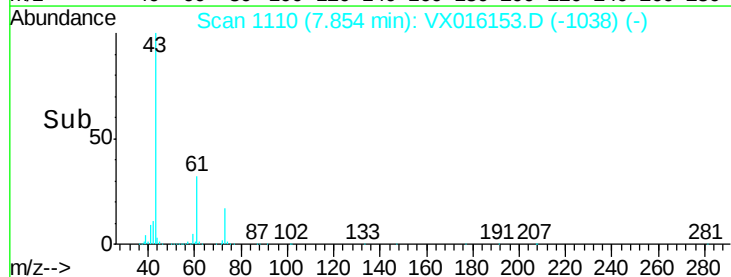
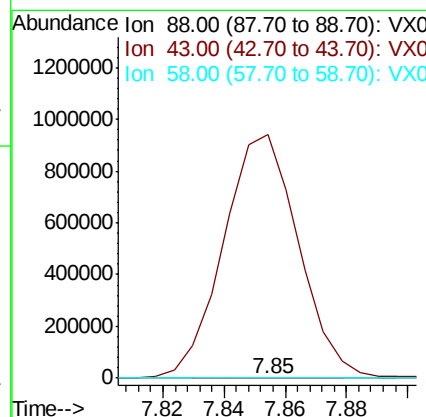
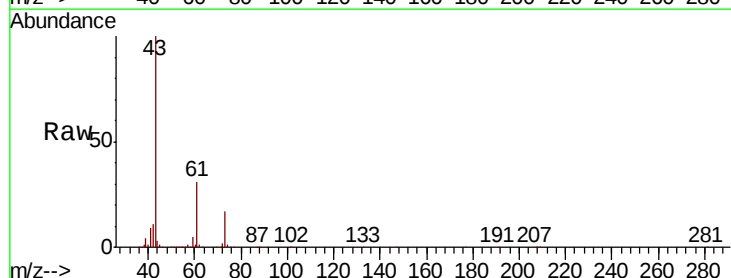
Instrument :
MSVOA_X
ClientSampleId :
PB128761ZHE#03

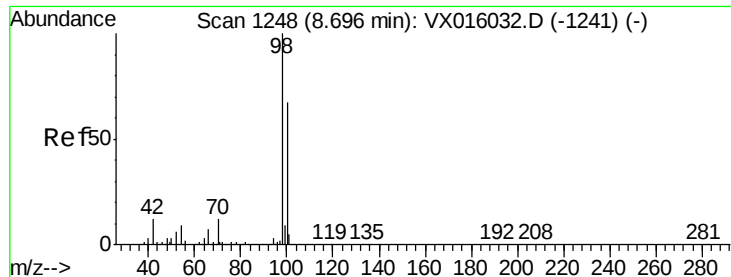
Tot Ion: 41 Resp: 5098
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.676 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.14 min
Lab File: VX016153.D
Acq: 11 May 2020 16:50

Tgt Ion: 88 Resp: 267
Ion Ratio Lower Upper
88 100
43 601965.2 25.3 37.9#
58 2513.5 55.9 83.9#





#50

Toluene-d8

Concen: 50.807 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

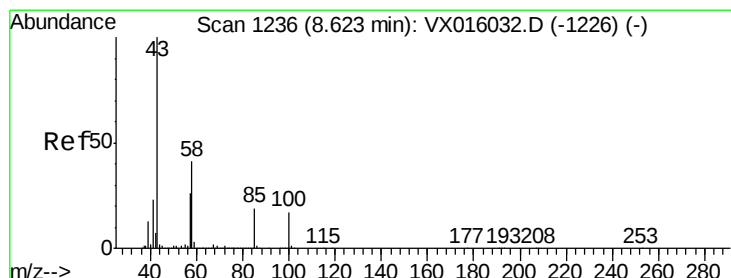
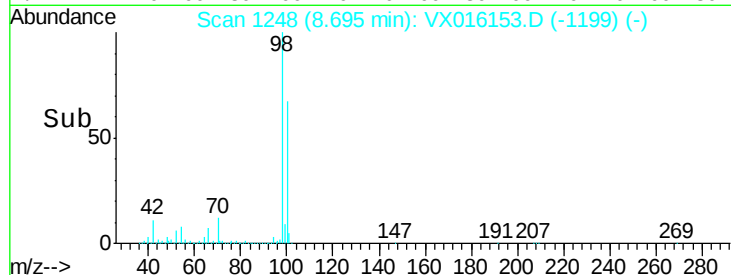
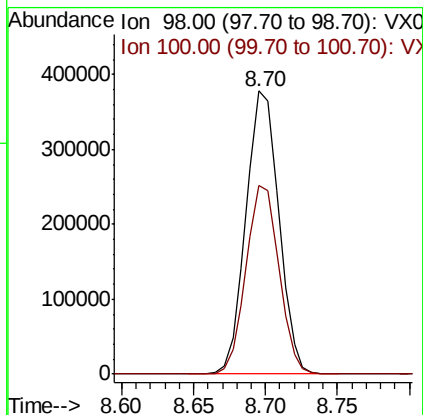
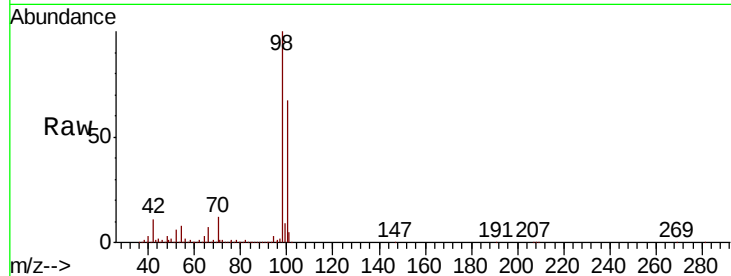
PB128761ZHE#03

Tot Ion: 98 Resp: 598131

Ion Ratio Lower Upper

98 100

100 66.8 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 17.052 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX016153.D

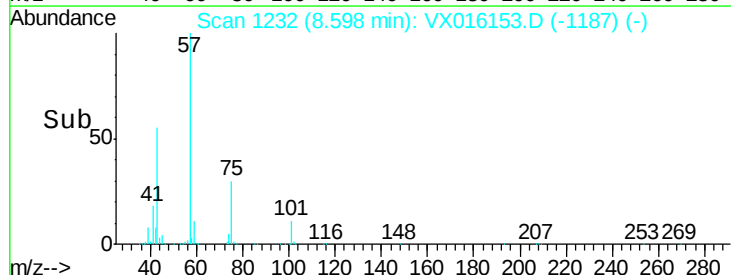
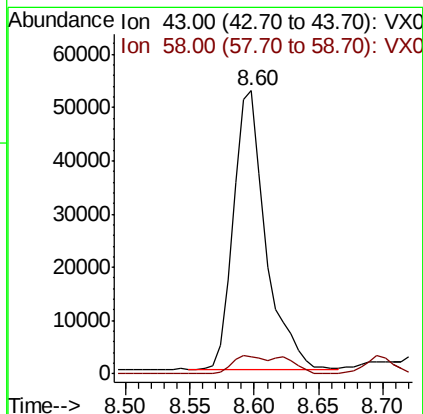
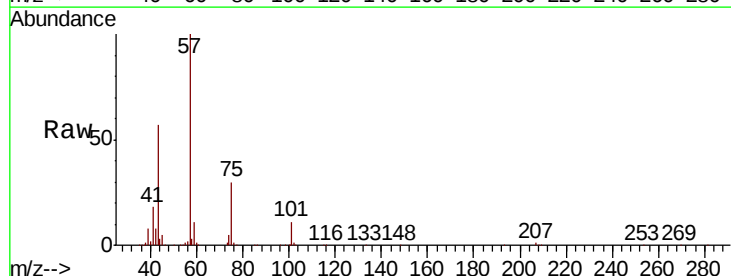
Acq: 11 May 2020 16:50

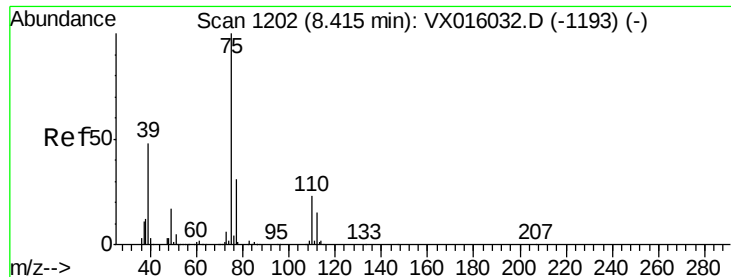
Tgt Ion: 43 Resp: 91608

Ion Ratio Lower Upper

43 100

58 6.7 33.0 49.4#





#54

cis-1,3-Dichloropropene

Concen: 7.136 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

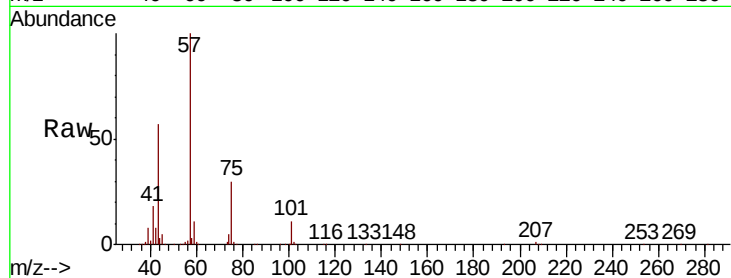
Tot Ion: 75 Resp: 43229

Ion Ratio Lower Upper

75 100

77 0.6 24.7 37.1#

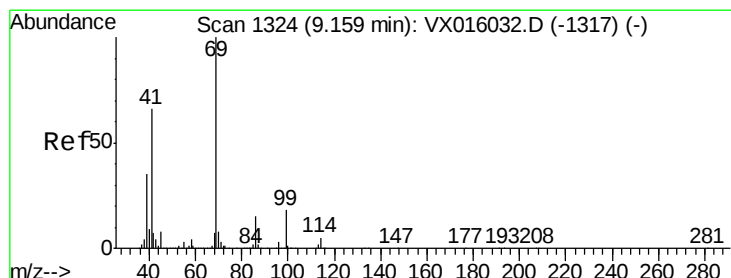
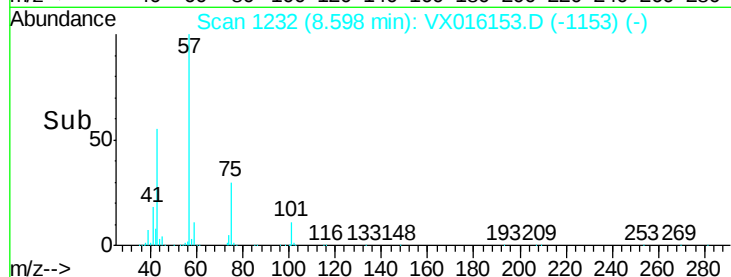
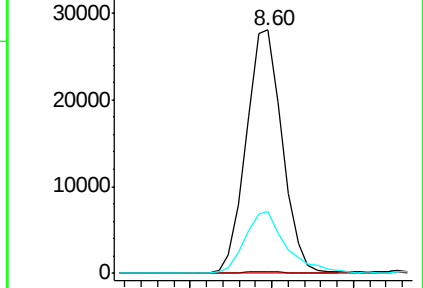
39 25.0 38.7 58.1#



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



#56

Ethyl methacrylate

Concen: 0.214 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

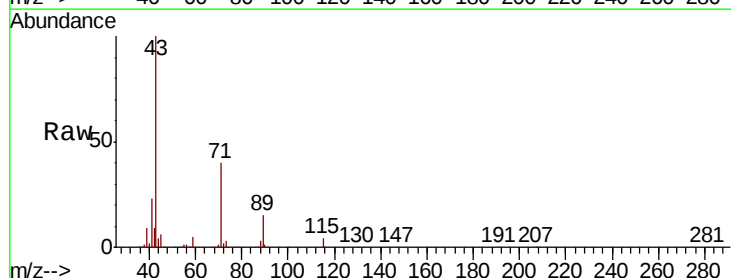
Tgt Ion: 69 Resp: 1191

Ion Ratio Lower Upper

69 100

41 5956.2 52.2 78.4#

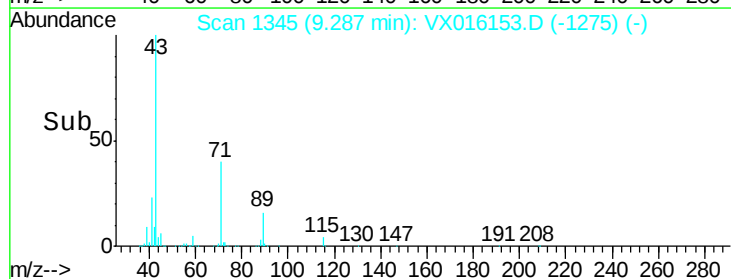
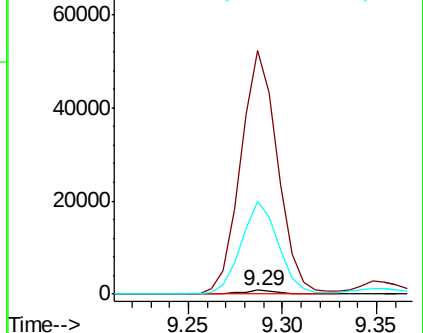
39 2308.7 28.2 42.4#

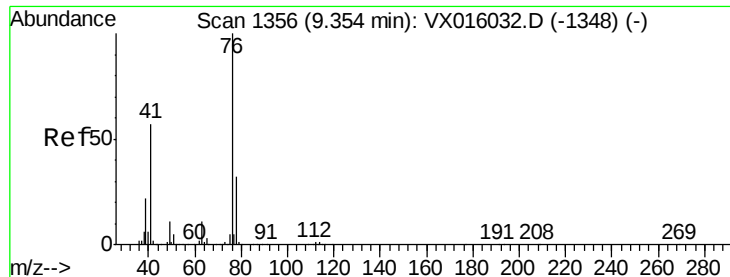


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.283 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

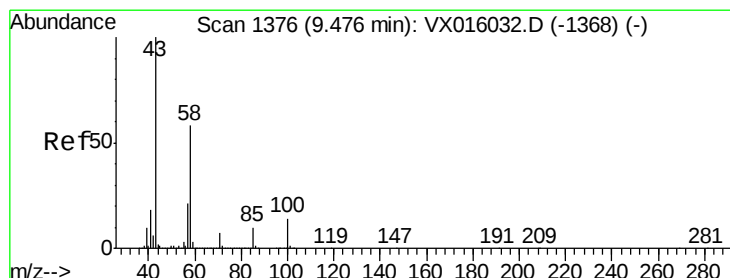
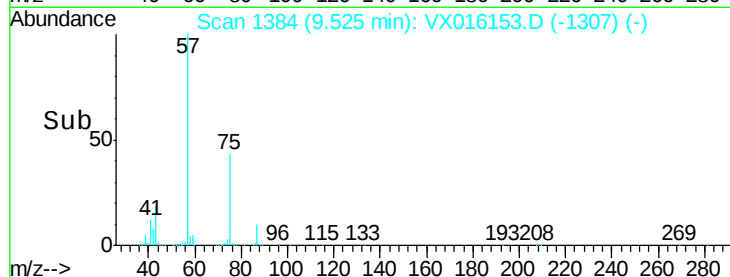
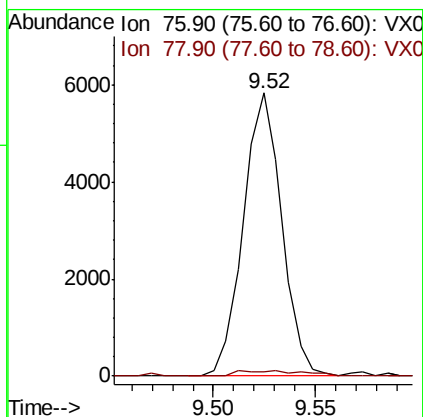
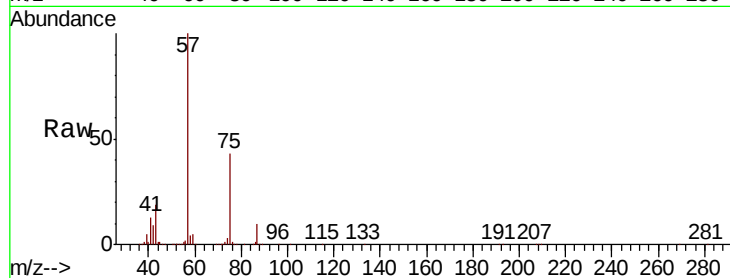
PB128761ZHE#03

Tot Ion: 76 Resp: 7627

Ion Ratio Lower Upper

76 100

78 3.6 25.9 38.9#



#59

2-Hexanone

Concen: 23.085 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016153.D

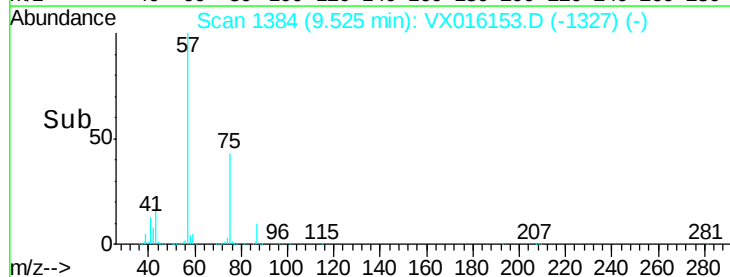
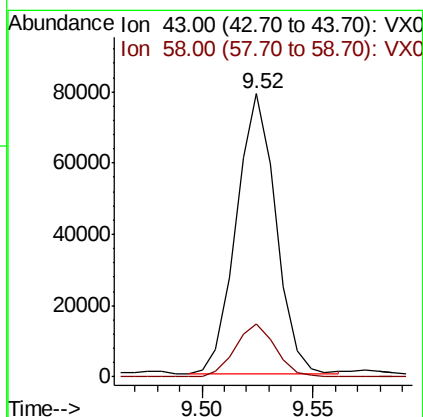
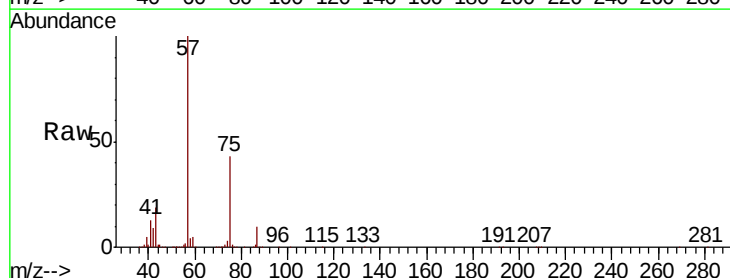
Acq: 11 May 2020 16:50

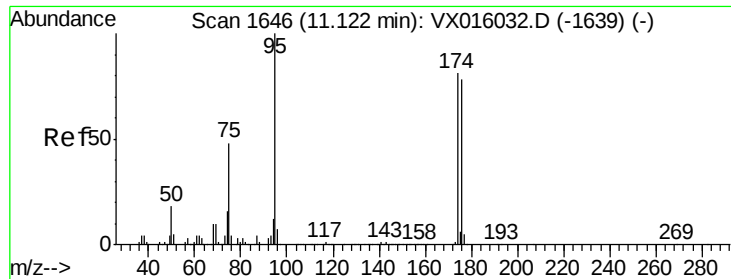
Tgt Ion: 43 Resp: 97396

Ion Ratio Lower Upper

43 100

58 19.4 28.6 85.9#





#62

4-Bromofluorobenzene

Concen: 53.450 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

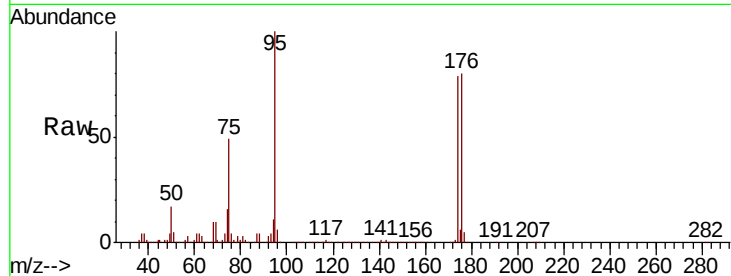
Tot Ion: 95 Resp: 239336

Ion Ratio Lower Upper

95 100

174 81.7 0.0 159.4

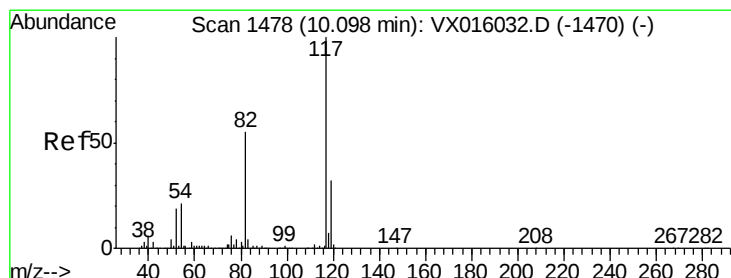
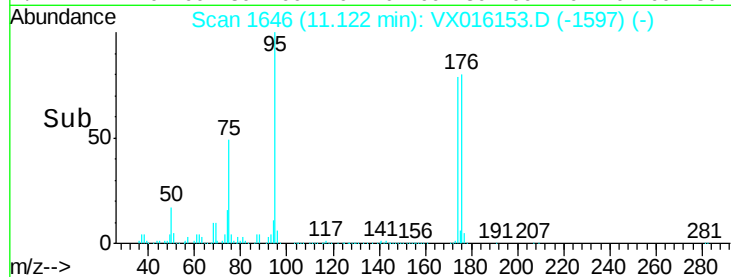
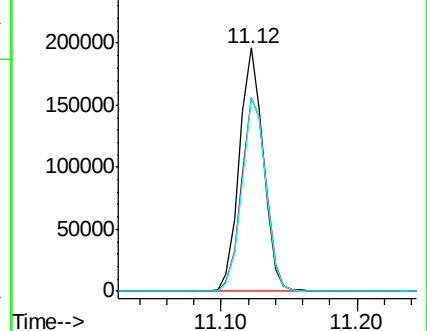
176 80.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

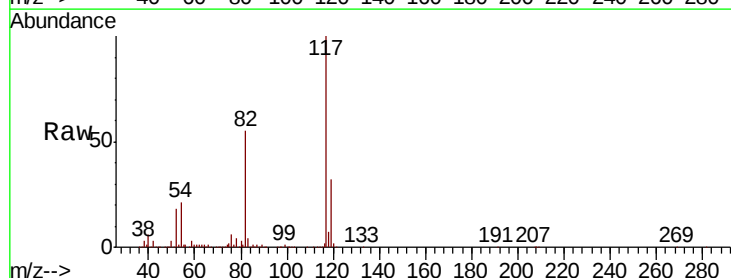
Tgt Ion: 117 Resp: 476559

Ion Ratio Lower Upper

117 100

82 55.2 44.4 66.6

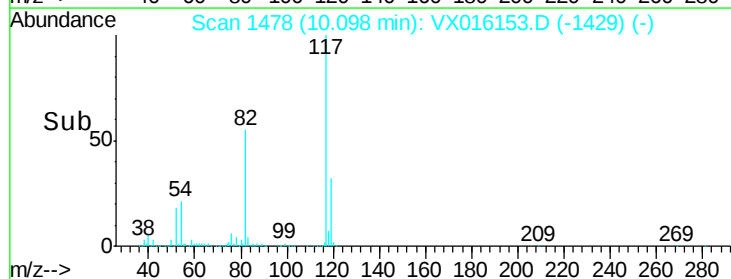
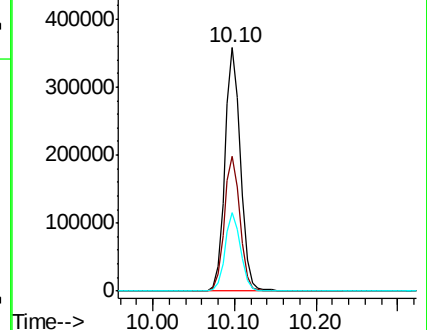
119 32.3 25.5 38.3

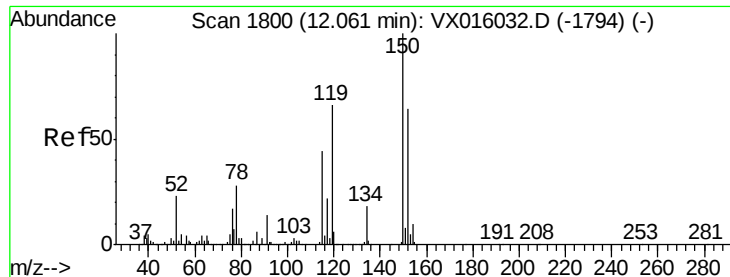


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

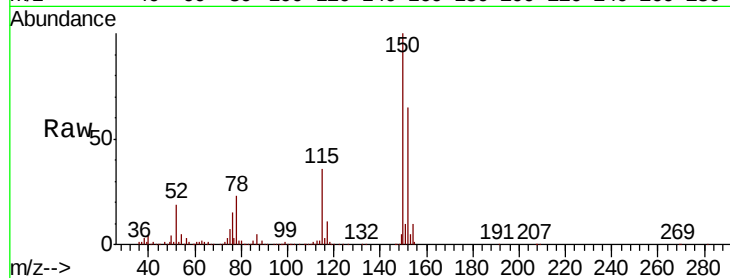
Tot Ion:152 Resp: 245316

Ion Ratio Lower Upper

152 100

115 58.5 41.3 124.1

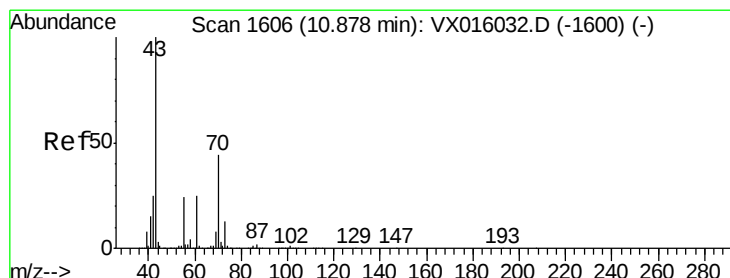
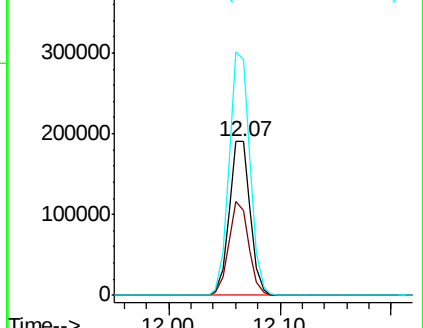
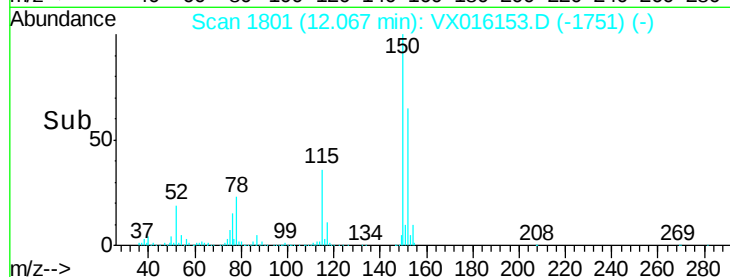
150 157.3 0.0 352.2



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



#74

N-ethyl acetate

Concen: 0.531 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Tgt Ion: 43 Resp: 4423

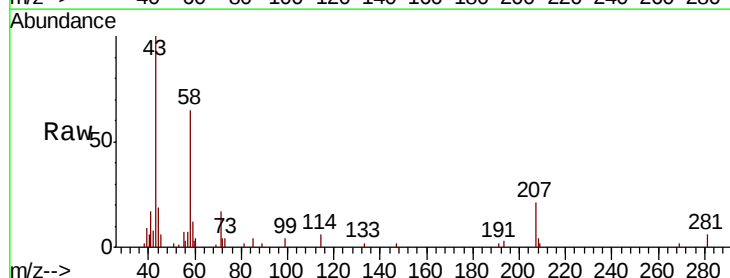
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 8.4 19.7 29.5#

61 0.0 20.9 31.3#

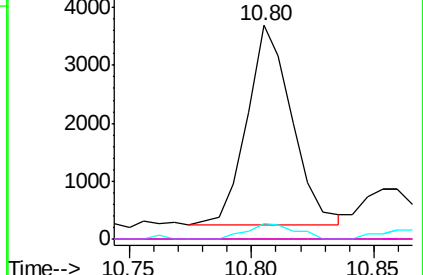
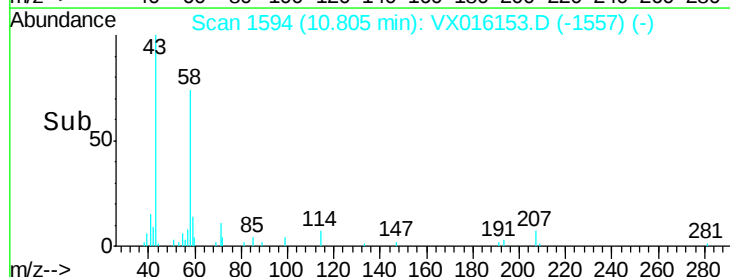


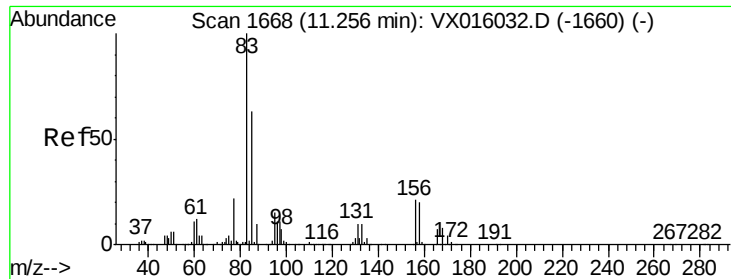
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 2.109 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016153.D

Acq: 11 May 2020 16:50

Instrument :

MSVOA_X

ClientSampleId :

PB128761ZHE#03

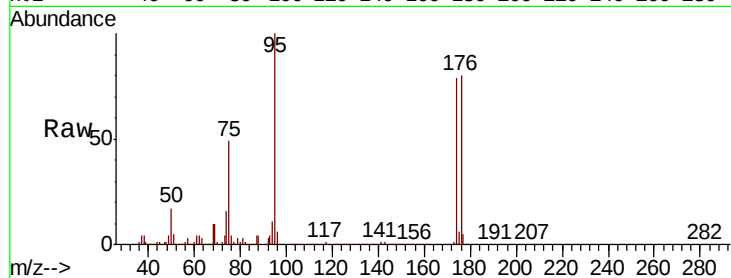
Tot Ion: 83 Resp: 199

Ion Ratio Lower Upper

83 100

131 164.3 5.1 15.4#

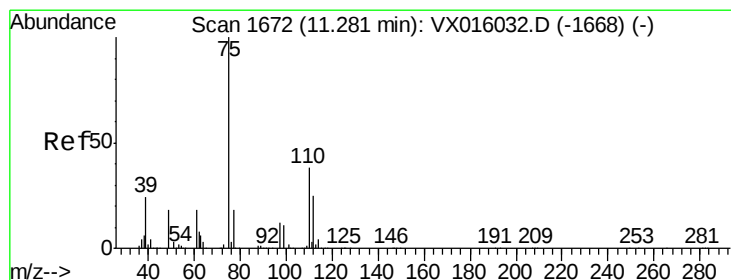
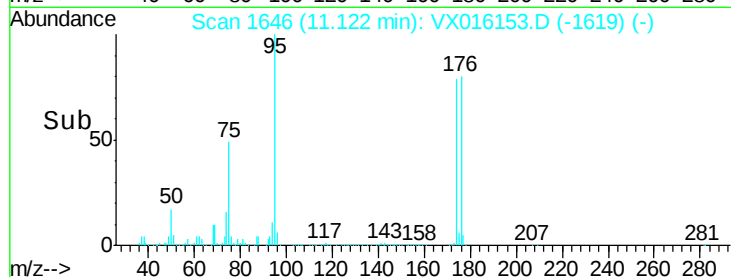
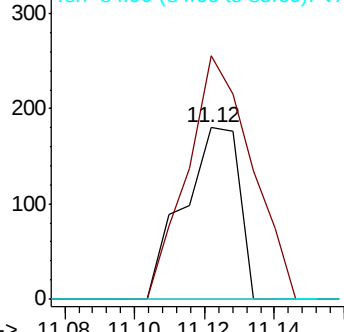
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.295 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016153.D

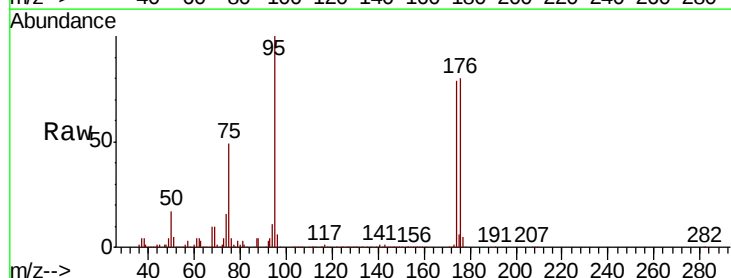
Acq: 11 May 2020 16:50

Tgt Ion: 75 Resp: 118543

Ion Ratio Lower Upper

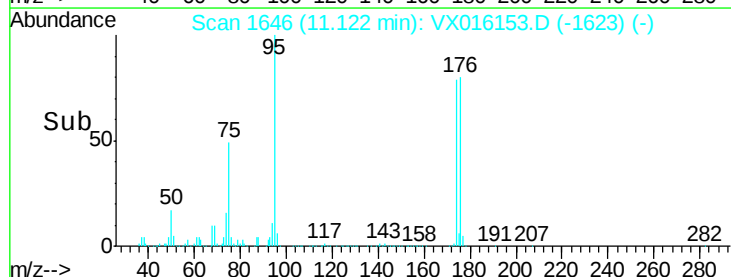
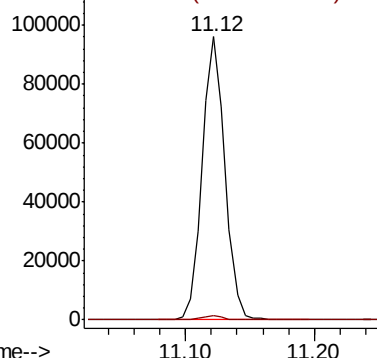
75 100

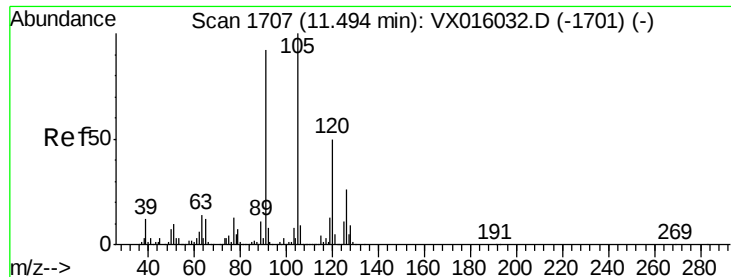
77 1.4 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

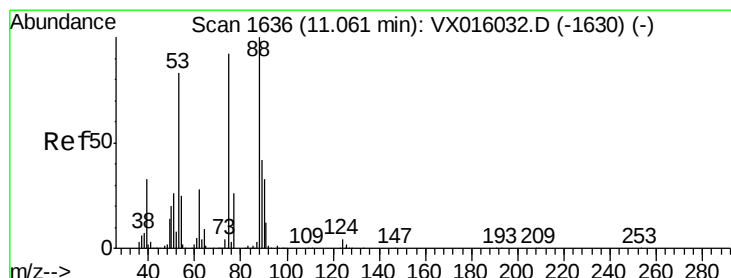
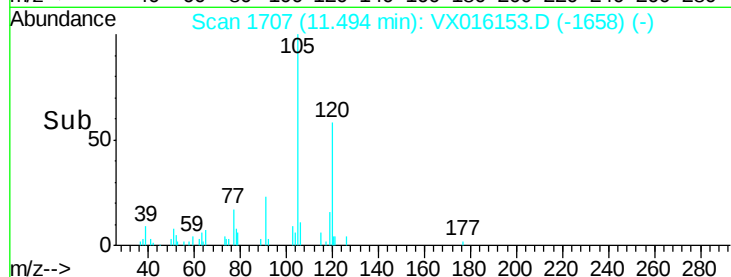
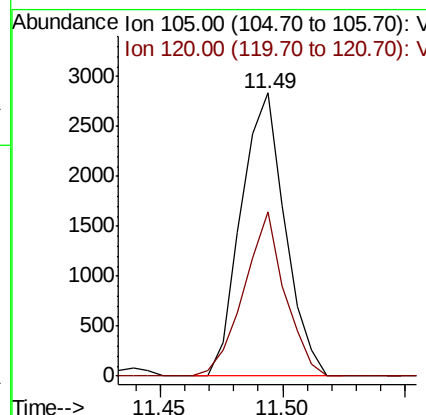
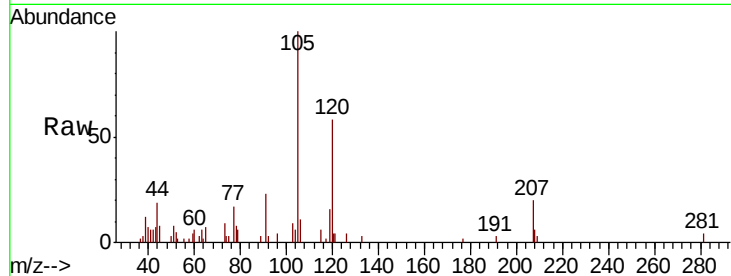




#80
 1,3,5-Trimethylbenzene
 Concen: 0.236 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX016153.D
 Acq: 11 May 2020 16:50

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761ZHE#03

Tot Ion:105 Resp: 3552
 Ion Ratio Lower Upper
 105 100
 120 54.4 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 50.747 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016153.D
 Acq: 11 May 2020 16:50

Tgt Ion: 75 Resp: 118543
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

