

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051120\
 Data File : VX016150.D
 Acq On : 11 May 2020 15:42
 Operator : JC/SP
 Sample : PB128761TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128761TB

Quant Time: May 12 06:58:35 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	295057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	492473	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	482185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	248529	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	179043	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	
35) Dibromofluoromethane	5.47	113	144613	46.35	ug/l	0.00
Spiked Amount			Recovery	=	92.70%	
50) Toluene-d8	8.70	98	608556	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	
62) 4-Bromofluorobenzene	11.12	95	242494	53.03	ug/l	0.00
Spiked Amount			Recovery	=	106.06%	

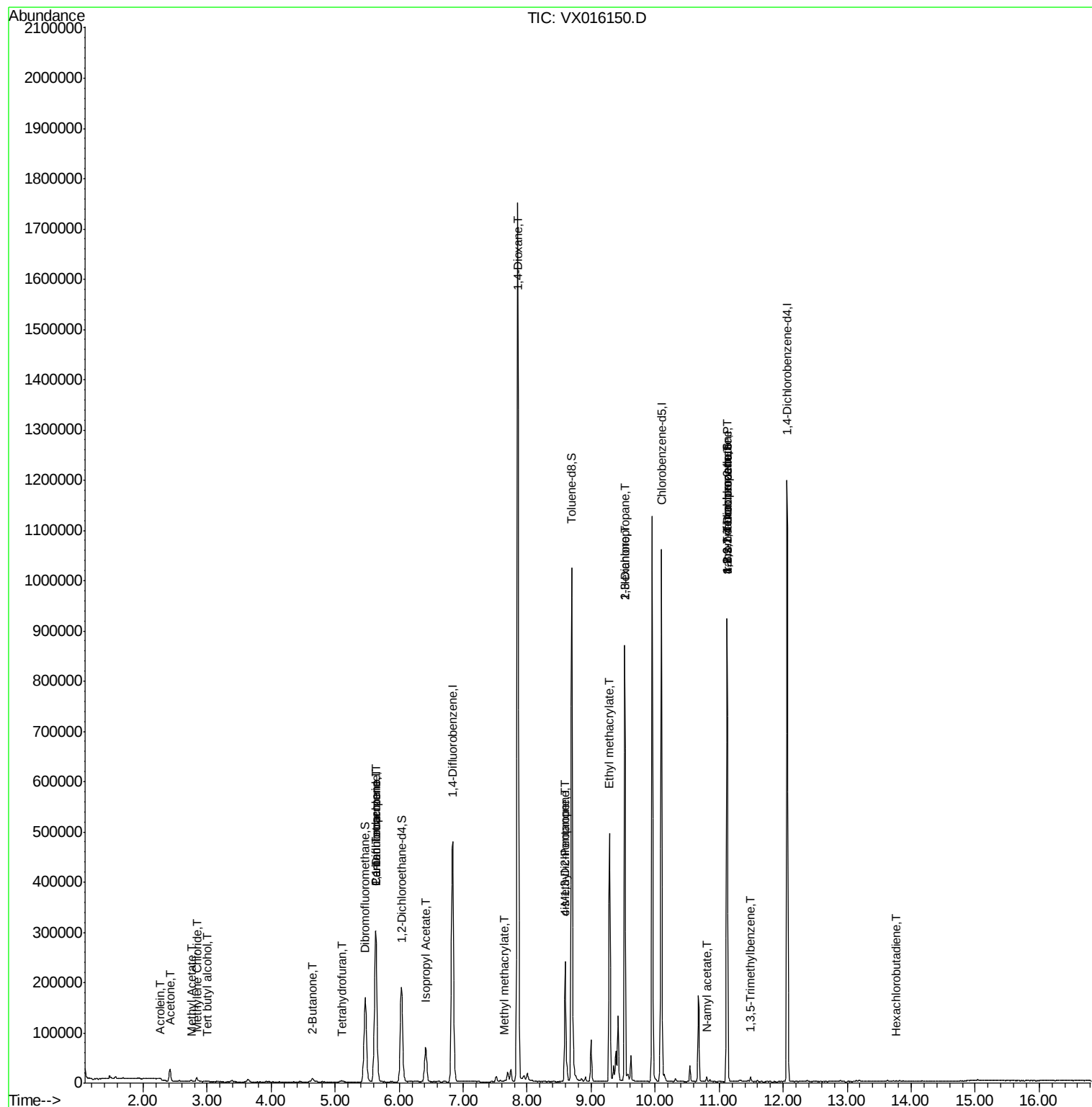
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.00	59	1143	1.164	ug/l	95
13) Acrolein	2.26	56	445	0.724	ug/l	89
16) Acetone	2.42	43	25443	14.687	ug/l	100
18) Methyl Acetate	2.75	43	3905	0.917	ug/l	98
20) Methylene Chloride	2.84	84	3782	1.059	ug/l	90
25) 2-Butanone	4.64	43	7515	2.692	ug/l	96
29) Tetrahydrofuran	5.10	42	2443	1.321	ug/l	90
36) 1,1-Dichloropropene	5.63	75	21338	4.402	ug/l #	50
38) Carbon Tetrachloride	5.63	117	28569	5.798	ug/l #	15
43) Isopropyl Acetate	6.42	43	93870	10.471	ug/l	99
48) Methyl methacrylate	7.65	41	4879	1.149	ug/l #	14
49) 1,4-Dioxane	7.85	88	297	2.915	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	88780	16.183	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	40568	6.558	ug/l #	57
56) Ethyl methacrylate	9.29	69	1145	0.202	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7294	1.202	ug/l #	45
59) 2-Hexanone	9.52	43	93785	21.769	ug/l #	49
74) N-amyl acetate	10.80	43	4363	0.517	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	11.12	83	248	2.123	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	119967	21.272	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	3516	0.230	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	119967	50.693	ug/l #	13
94) Hexachlorobutadiene	13.76	225	97	0.561	ug/l #	56

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

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ClientSampleId :
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Quant Time: May 12 06:58:35 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: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

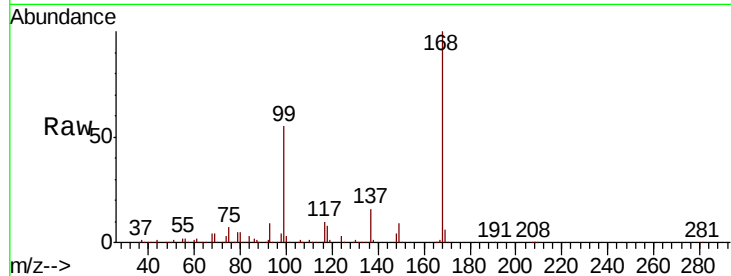
PB128761TB

Tot Ion:168 Resp: 295057

Ion Ratio Lower Upper

168 100

99 54.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

120000

100000

80000

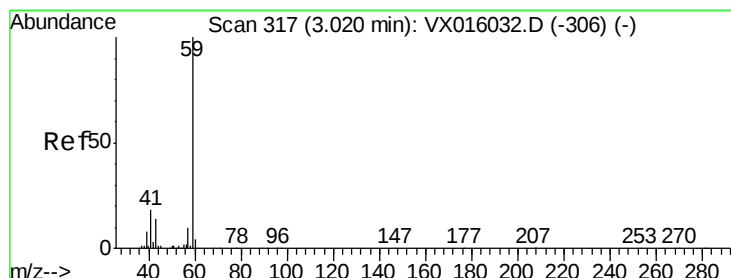
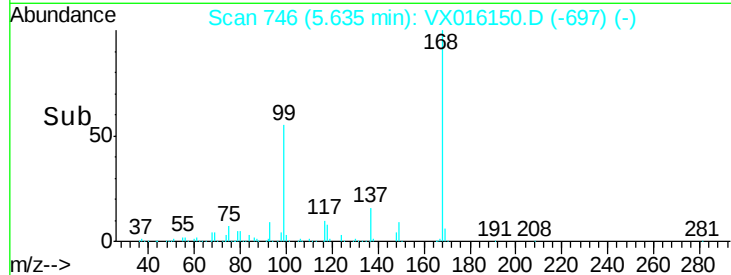
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.164 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX016150.D

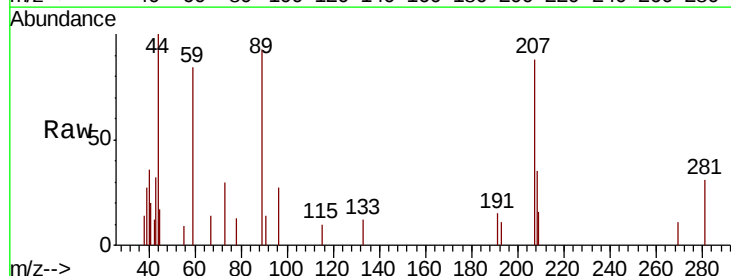
Acq: 11 May 2020 15:42

Tgt Ion: 59 Resp: 1143

Ion Ratio Lower Upper

59 100

57 8.3 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

500

400

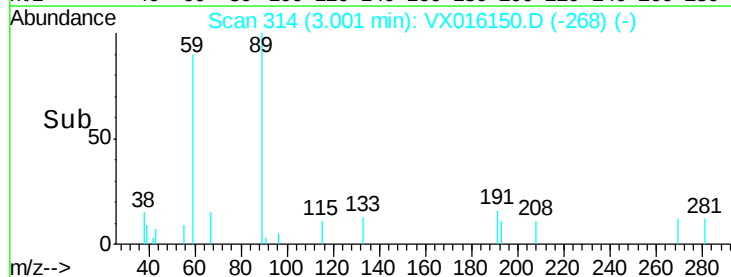
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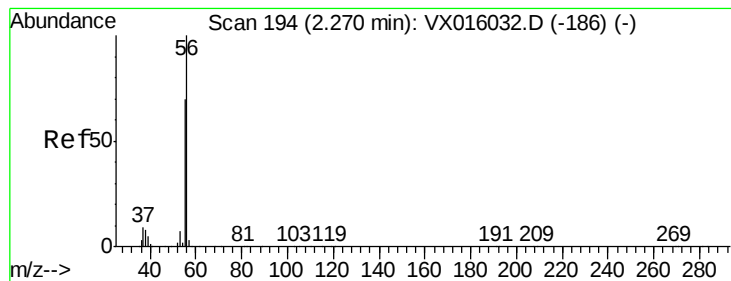
200

100

0

Time-->





#13

Acrolein

Concen: 0.724 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

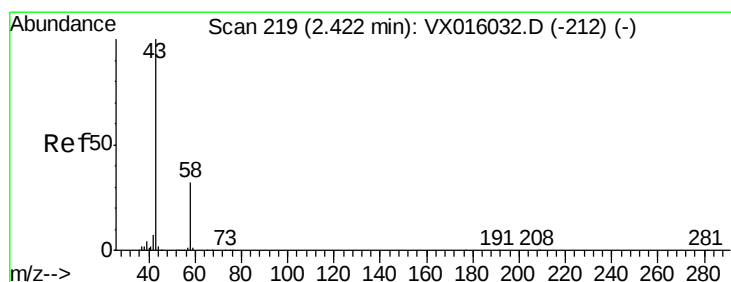
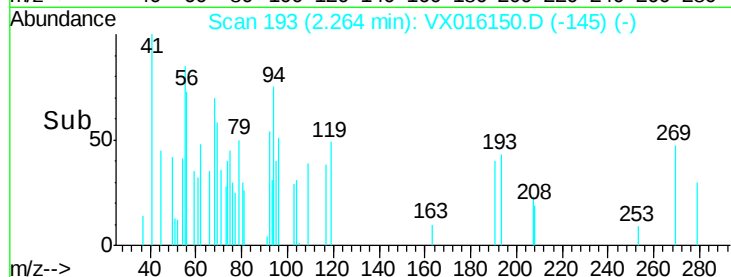
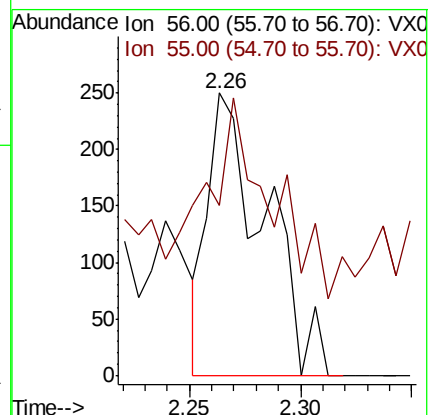
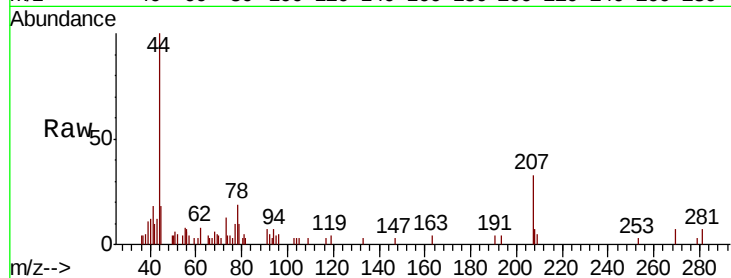
PB128761TB

Tot Ion: 56 Resp: 445

Ion Ratio Lower Upper

56 100

55 79.8 56.5 84.7



#16

Acetone

Concen: 14.687 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016150.D

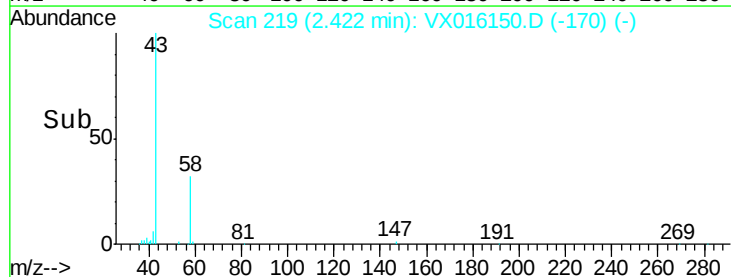
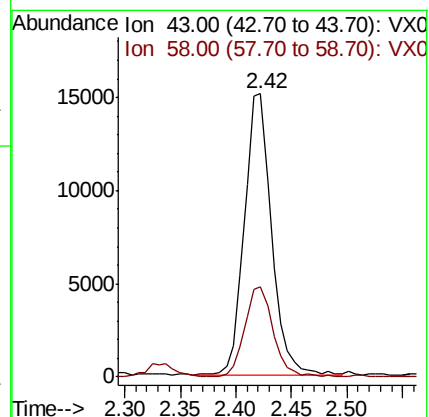
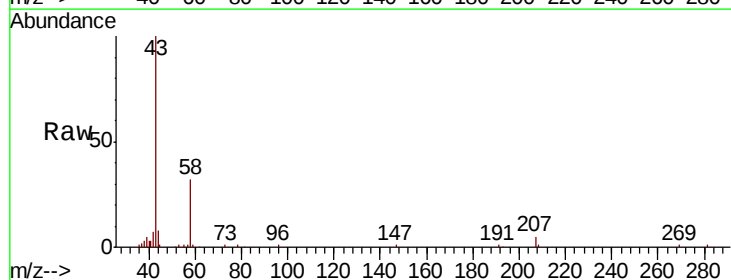
Acq: 11 May 2020 15:42

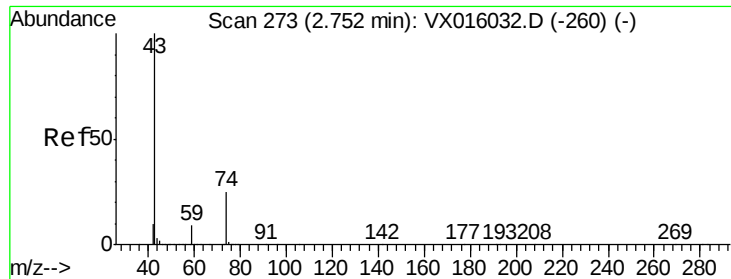
Tgt Ion: 43 Resp: 25443

Ion Ratio Lower Upper

43 100

58 31.9 25.4 38.0

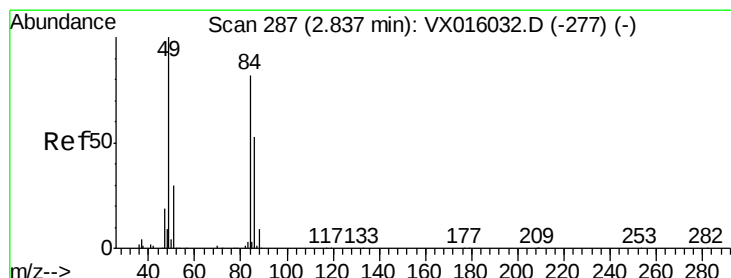
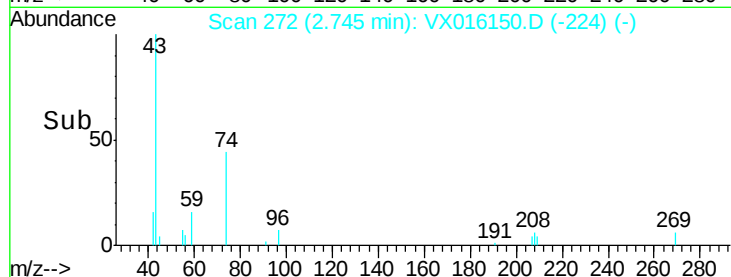
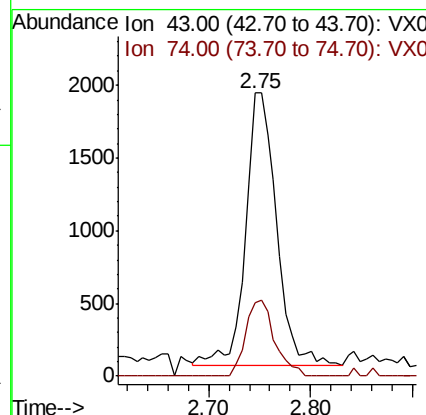
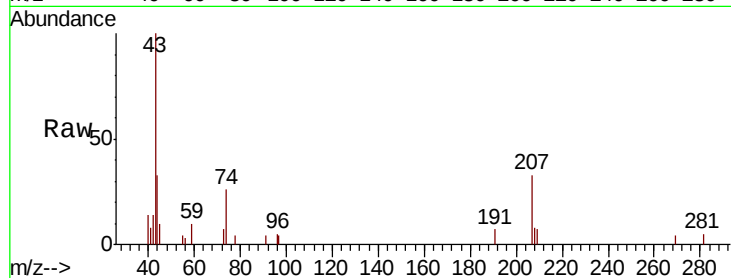




#18
Methvl Acetate
Concen: 0.917 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

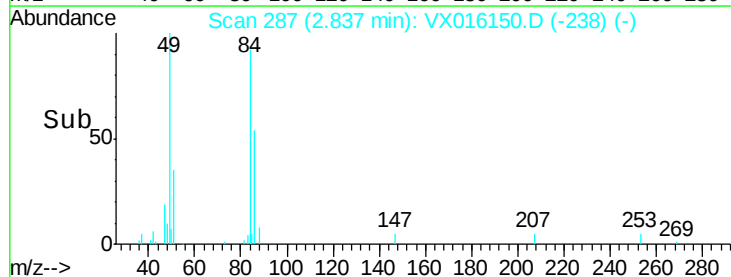
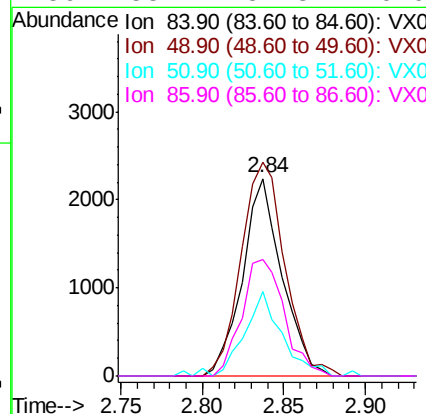
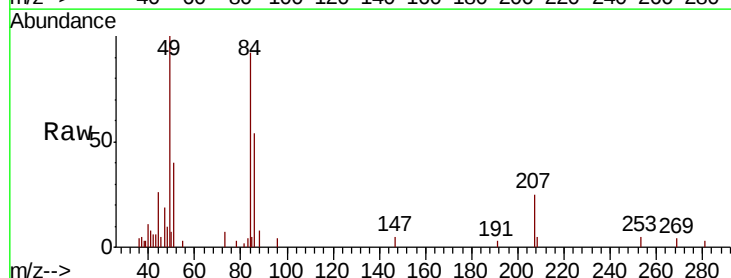
Instrument :
MSVOA_X
ClientSampleId :
PB128761TB

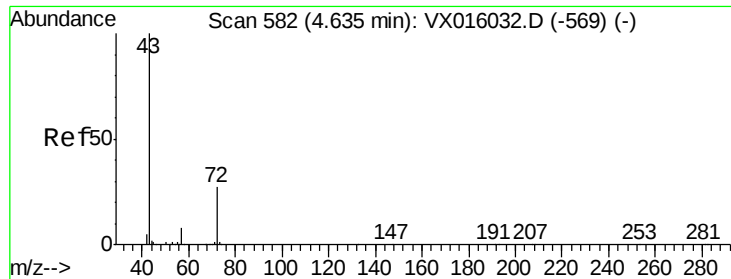
Tot Ion: 43 Resp: 3905
Ion Ratio Lower Upper
43 100
74 26.2 20.2 30.2



#20
Methylene Chloride
Concen: 1.059 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

Tgt Ion: 84 Resp: 3782
Ion Ratio Lower Upper
84 100
49 108.2 97.3 145.9
51 43.1 29.3 43.9
86 58.7 51.3 76.9

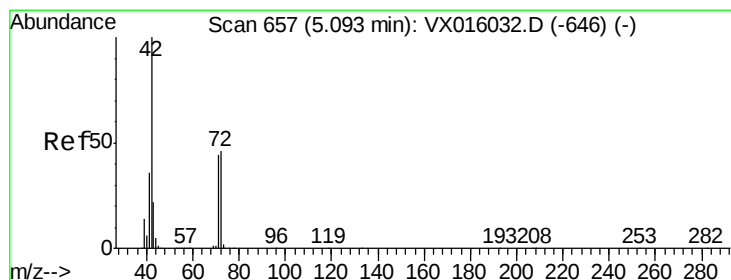
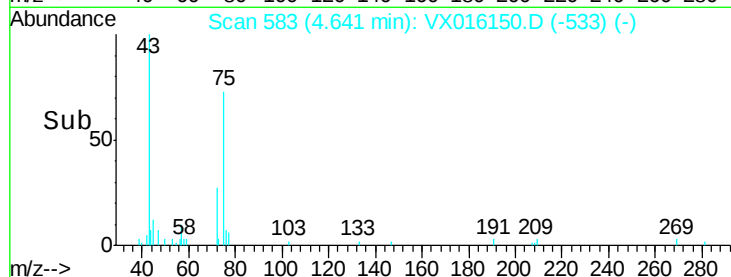
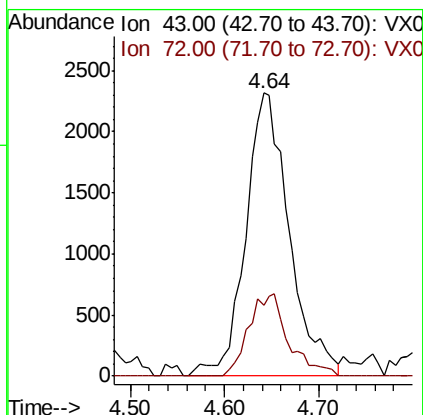
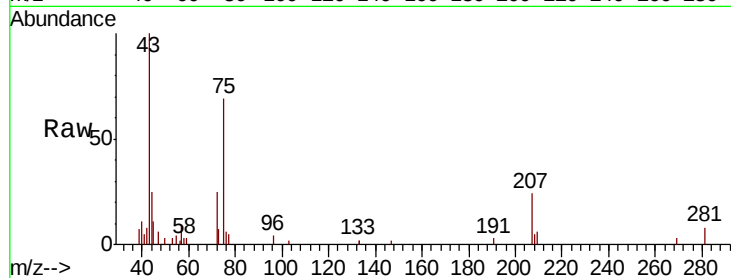




#25
2-Butanone
Concen: 2.692 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

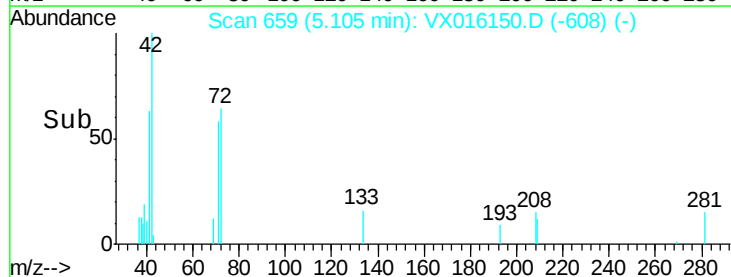
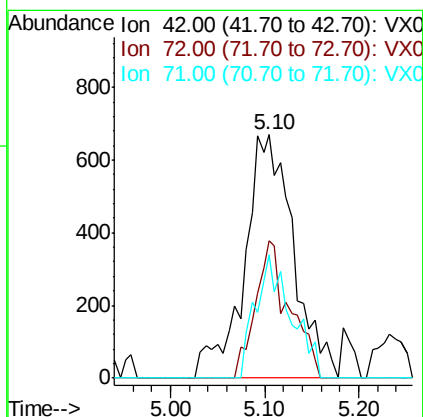
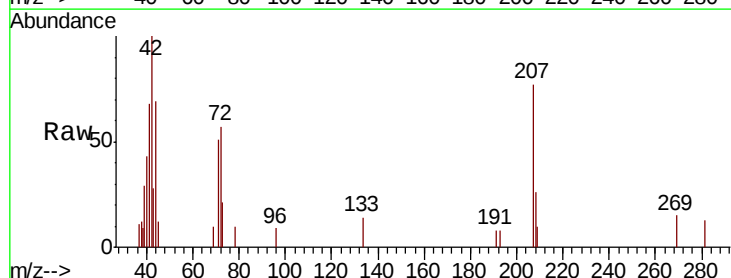
Instrument :
MSVOA_X
ClientSampleId :
PB128761TB

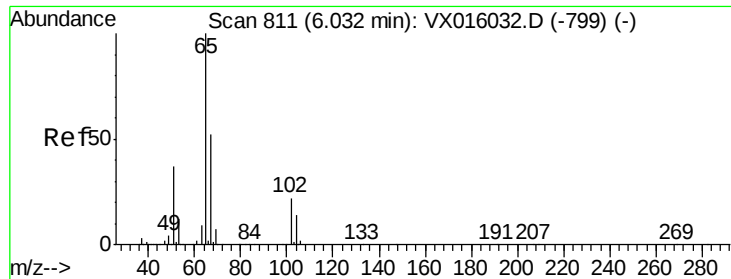
Tot Ion: 43 Resp: 7515
Ion Ratio Lower Upper
43 100
72 25.2 21.8 32.8



#29
Tetrahydrofuran
Concen: 1.321 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

Tgt Ion: 42 Resp: 2443
Ion Ratio Lower Upper
42 100
72 39.6 37.1 55.7
71 36.8 34.5 51.7





#33

1,2-Dichloroethane-d4

Concen: 46.114 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

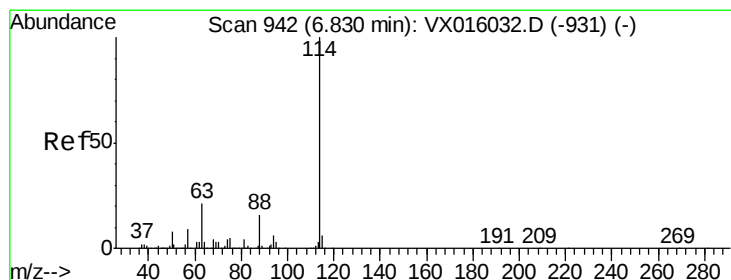
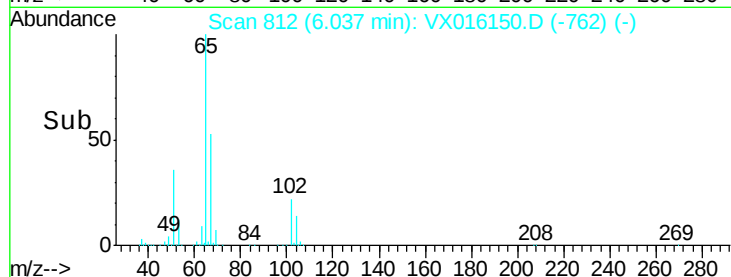
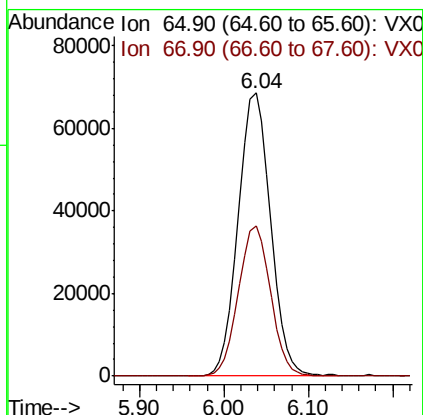
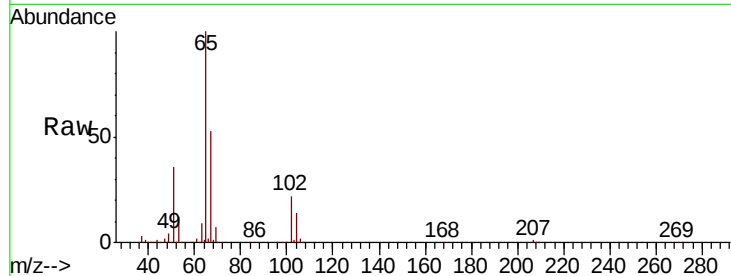
PB128761TB

Tot Ion: 65 Resp: 179043

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

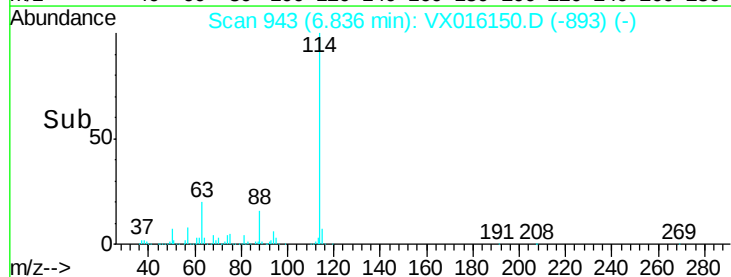
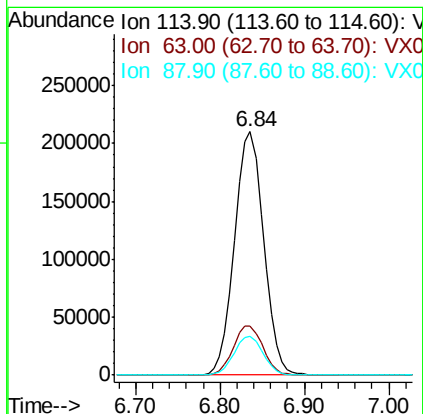
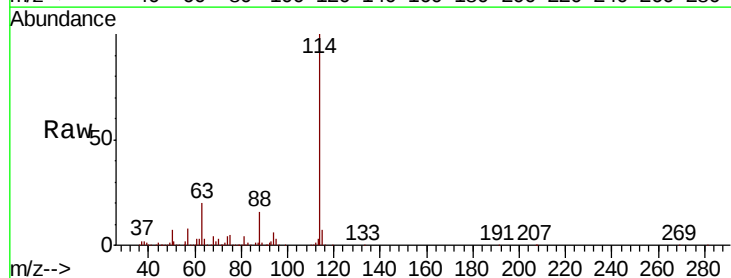
Tgt Ion: 114 Resp: 492473

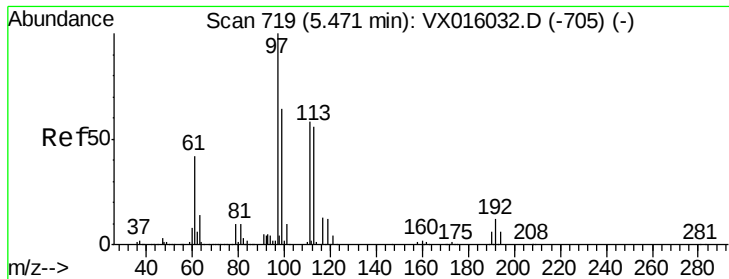
Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

88 16.1 0.0 31.4

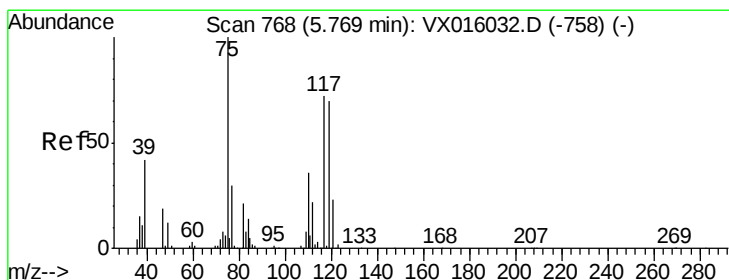
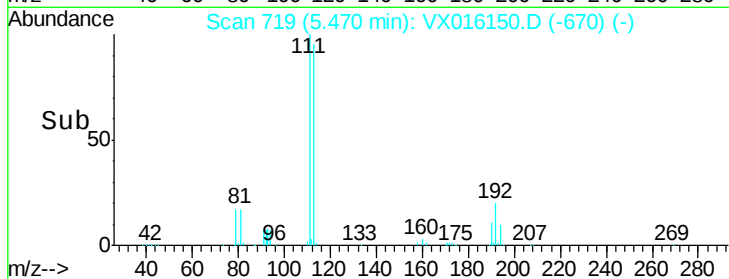
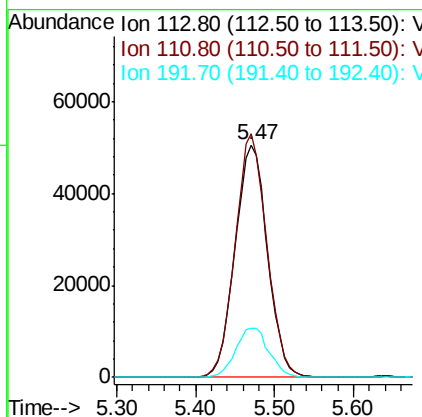
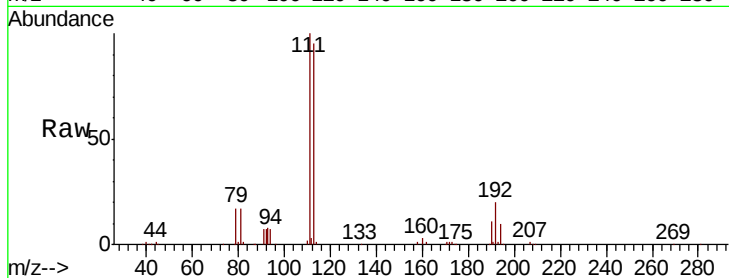




#35
 Dibromofluoromethane
 Concen: 46.350 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016150.D
 Acq: 11 May 2020 15:42

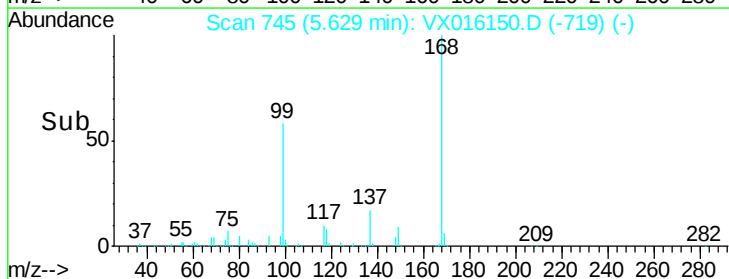
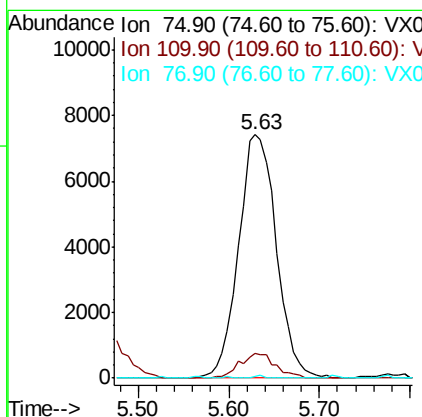
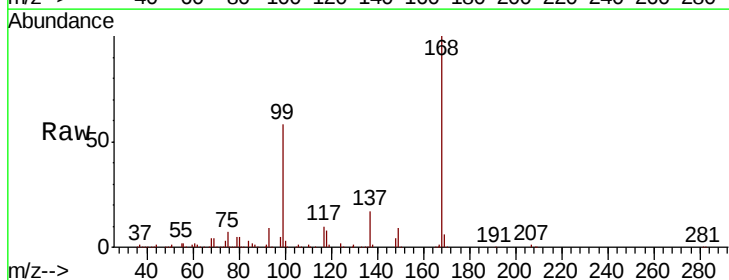
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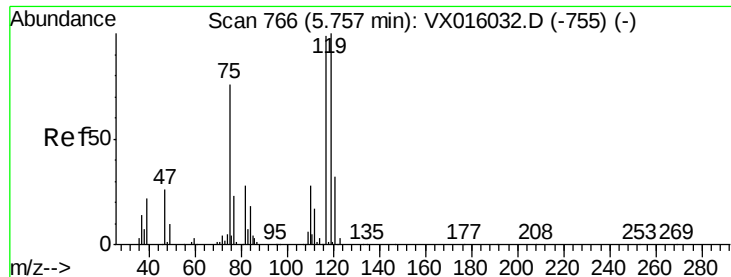
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.6	122.4
192	21.7	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.402 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016150.D
 Acq: 11 May 2020 15:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.1#
77	0.2	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.798 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampled :

PB128761TB

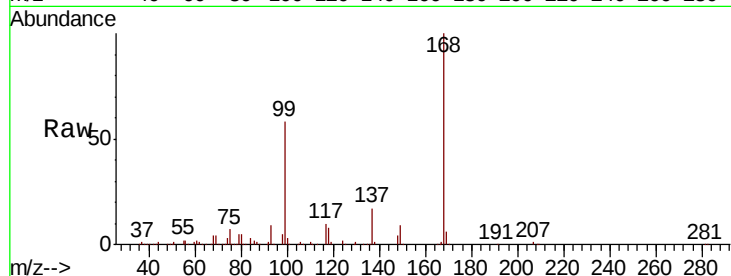
Tot Ion:117 Resp: 28569

Ion Ratio Lower Upper

117 100

119 6.1 80.3 120.5#

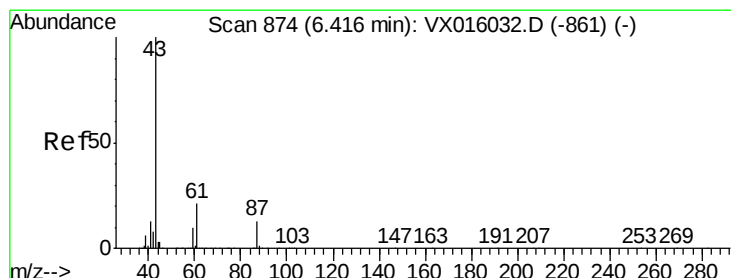
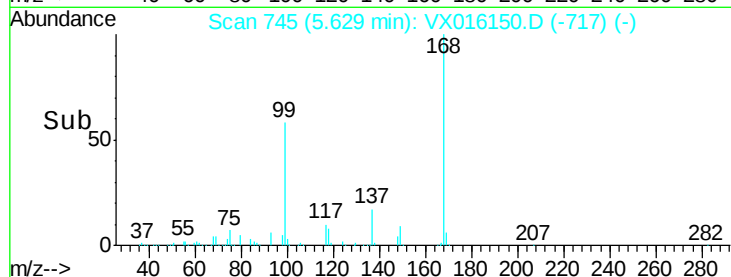
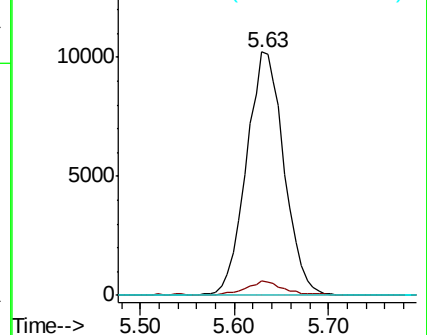
121 0.0 25.7 38.5#



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: 10.471 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

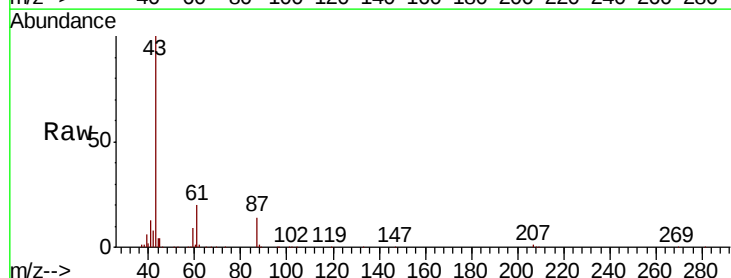
Tgt Ion: 43 Resp: 93870

Ion Ratio Lower Upper

43 100

61 21.0 17.0 25.4

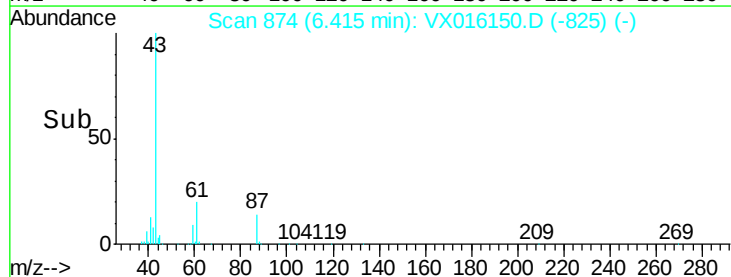
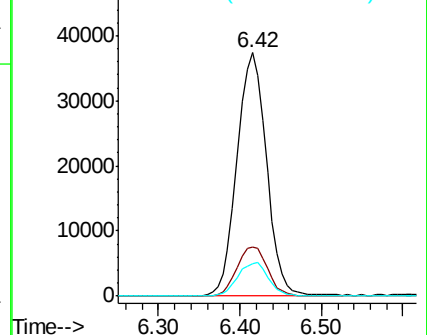
87 14.2 11.0 16.6

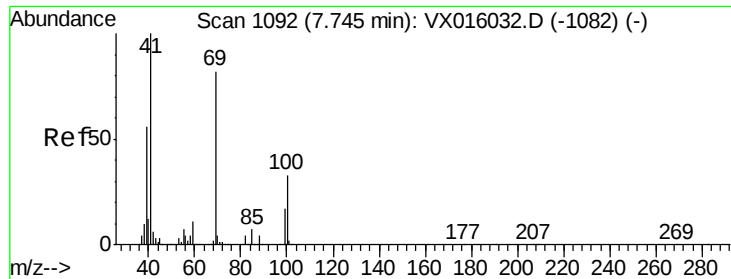


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

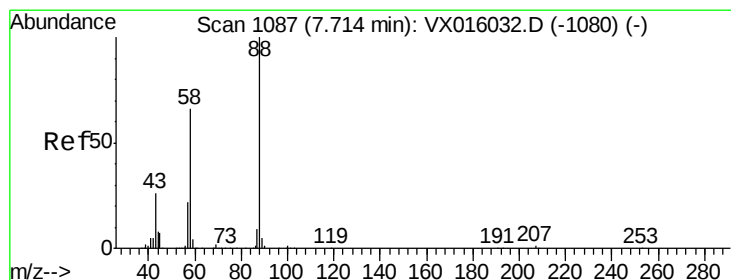
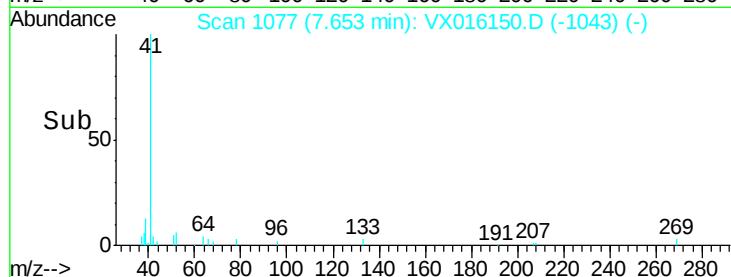
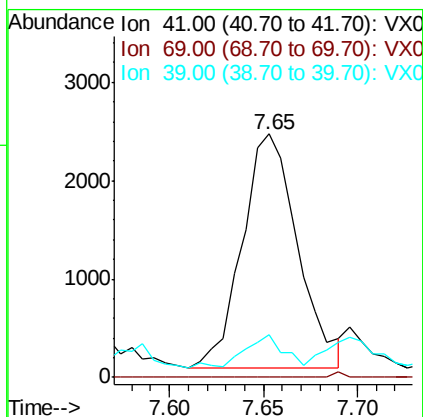
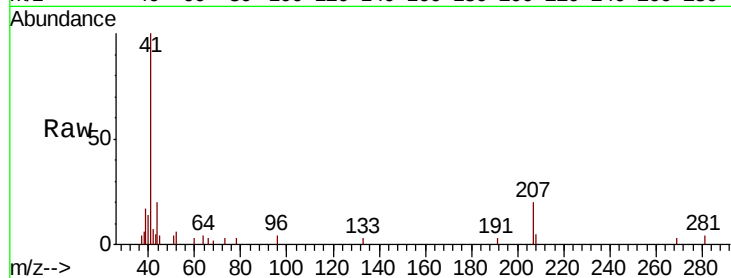




#48
Methvl methacrylate
Concen: 1.149 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

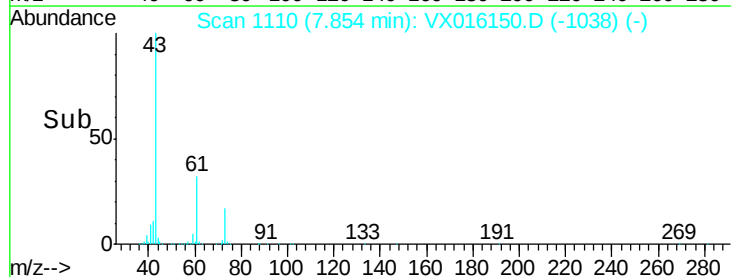
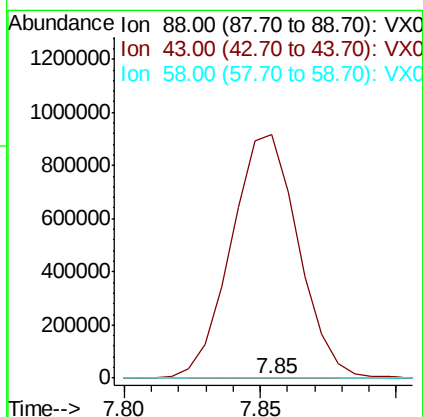
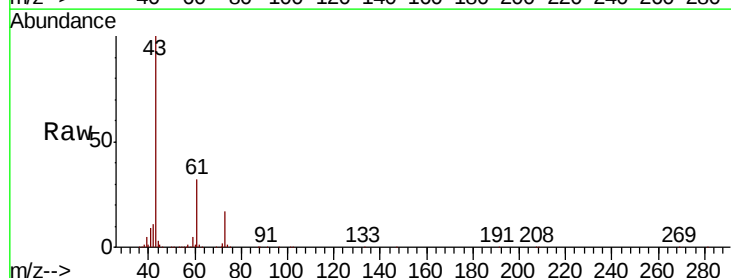
Instrument :
MSVOA_X
ClientSampleId :
PB128761TB

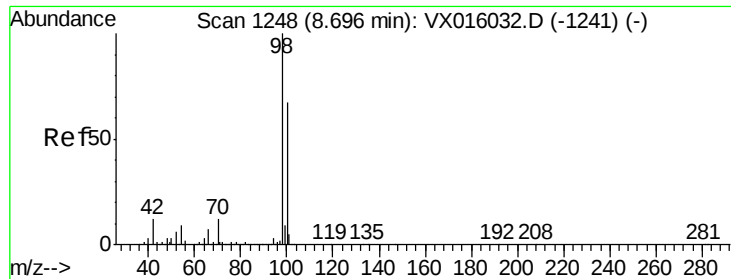
Tot Ion: 41 Resp: 4879
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.6#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 2.915 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.14 min
Lab File: VX016150.D
Acq: 11 May 2020 15:42

Tgt Ion: 88 Resp: 297
Ion Ratio Lower Upper
88 100
43 530692.9 25.3 37.9#
58 2297.6 55.9 83.9#





#50

Toluene-d8

Concen: 50.622 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

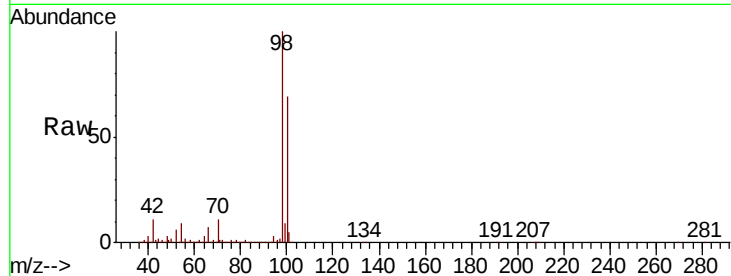
PB128761TB

Tot Ion: 98 Resp: 608556

Ion Ratio Lower Upper

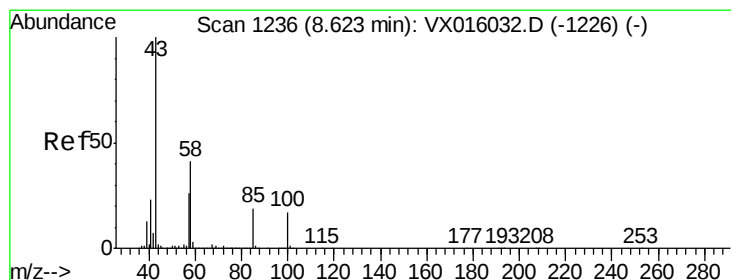
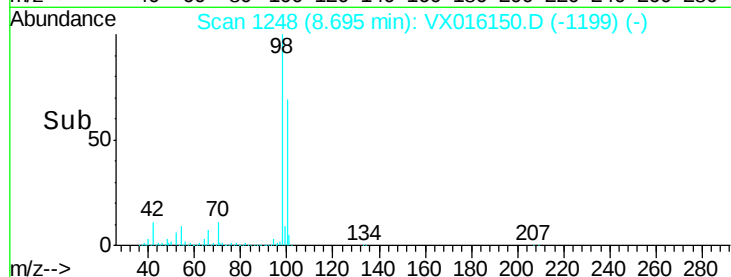
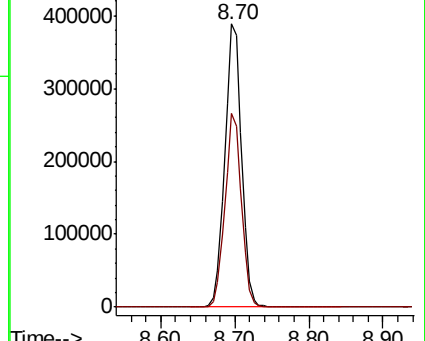
98 100

100 66.7 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 16.183 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016150.D

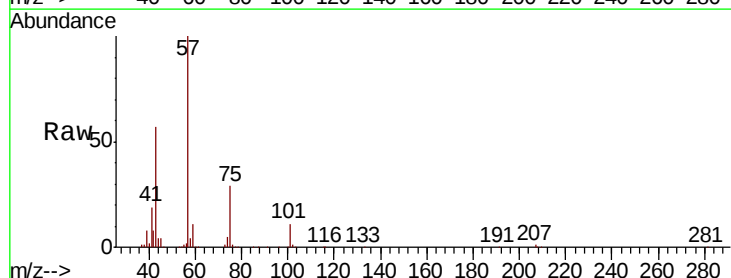
Acq: 11 May 2020 15:42

Tgt Ion: 43 Resp: 88780

Ion Ratio Lower Upper

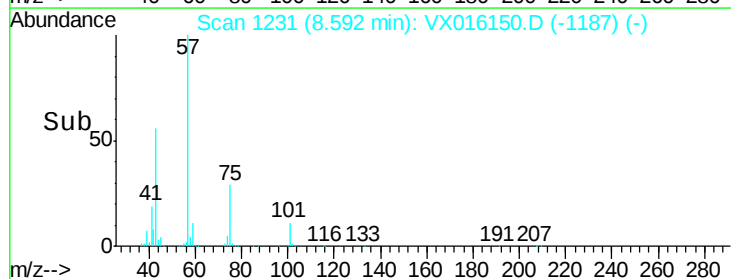
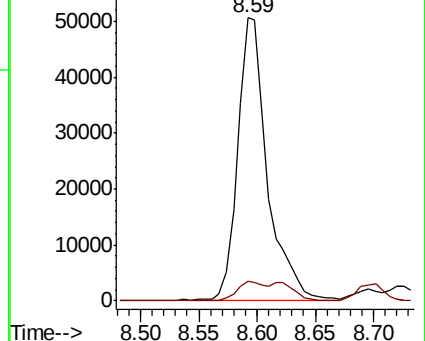
43 100

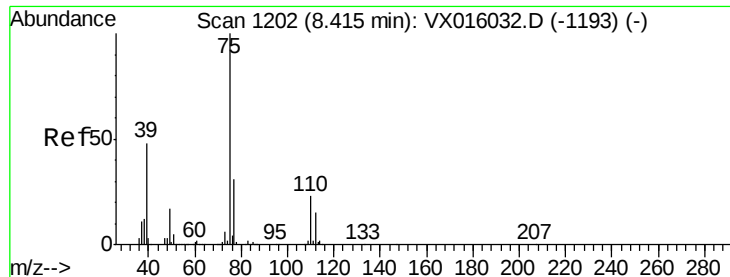
58 6.9 33.0 49.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 6.558 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

PB128761TB

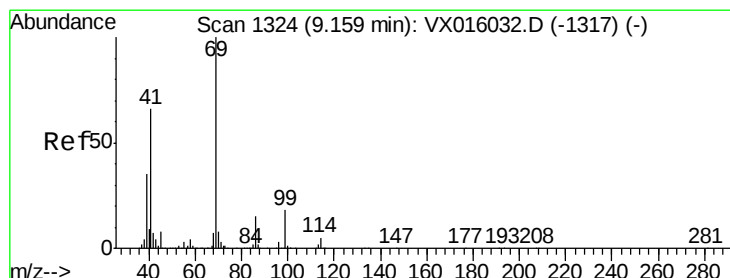
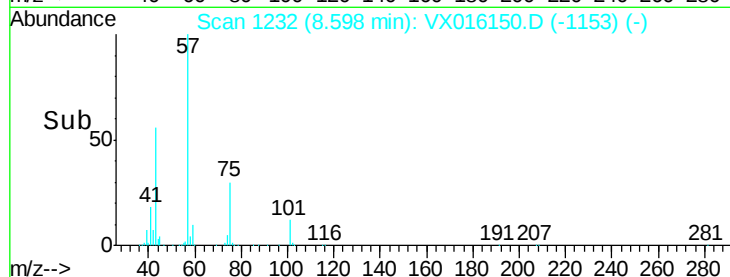
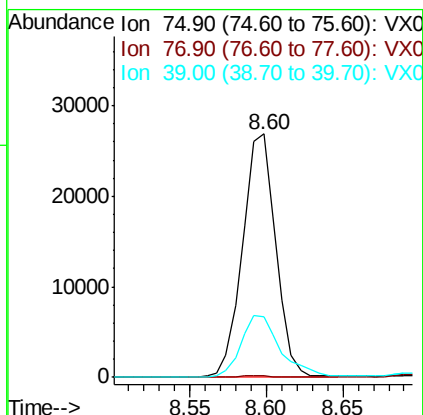
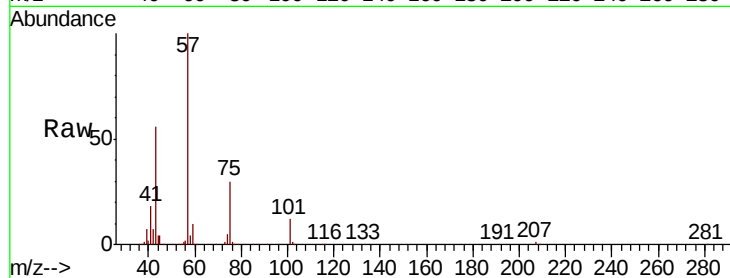
Tot Ion: 75 Resp: 40568

Ion Ratio Lower Upper

75 100

77 0.7 24.7 37.1#

39 24.4 38.7 58.1#



#56

Ethyl methacrylate

Concen: 0.202 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

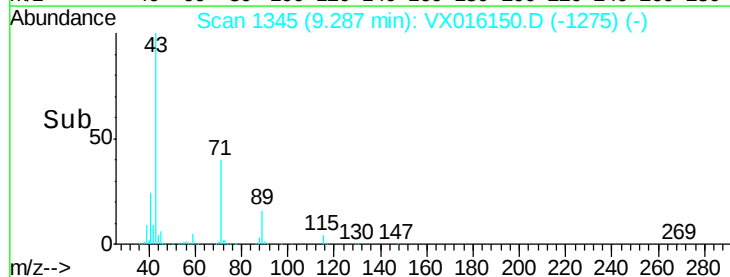
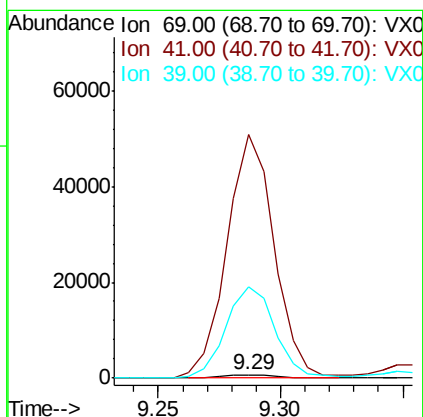
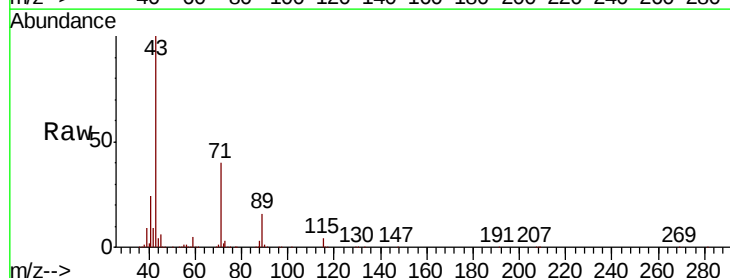
Tgt Ion: 69 Resp: 1145

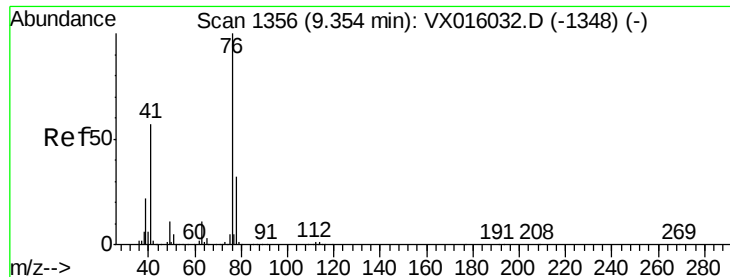
Ion Ratio Lower Upper

69 100

41 5967.7 52.2 78.4#

39 2356.7 28.2 42.4#





#57

1,3-Dichloropropane

Concen: 1.202 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

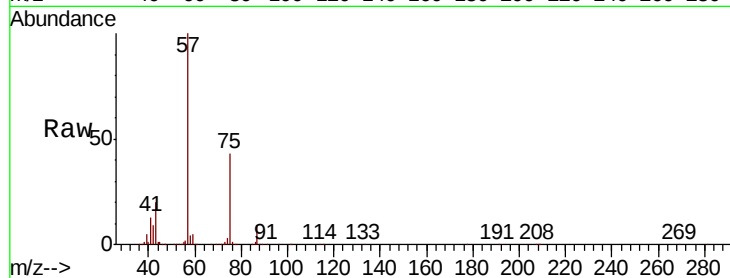
PB128761TB

Tot Ion: 76 Resp: 7294

Ion Ratio Lower Upper

76 100

78 1.8 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

6000

5000

4000

3000

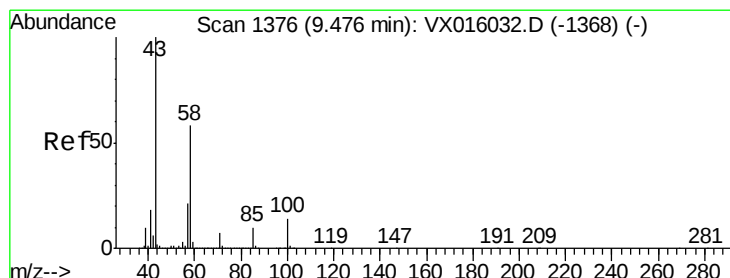
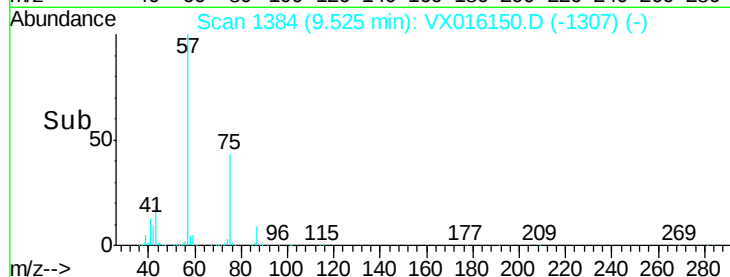
2000

1000

0

9.45 9.50 9.55

Time-->



#59

2-Hexanone

Concen: 21.769 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX016150.D

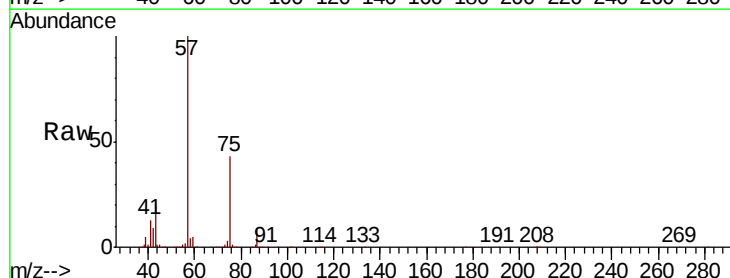
Acq: 11 May 2020 15:42

Tgt Ion: 43 Resp: 93785

Ion Ratio Lower Upper

43 100

58 20.0 28.6 85.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

80000

60000

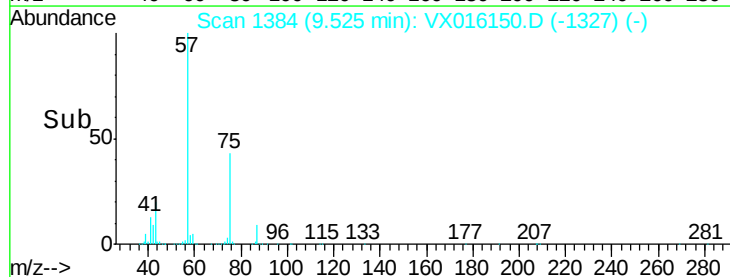
40000

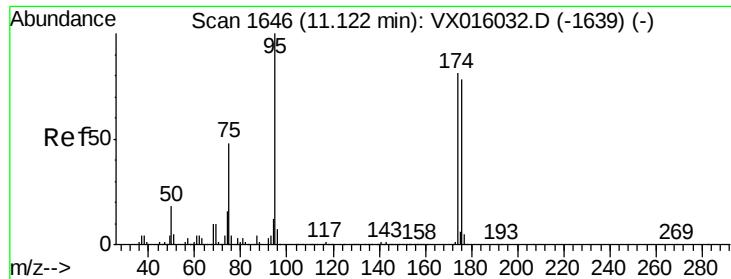
20000

0

9.50 9.55

Time-->





#62

4-Bromofluorobenzene

Concen: 53.033 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

PB128761TB

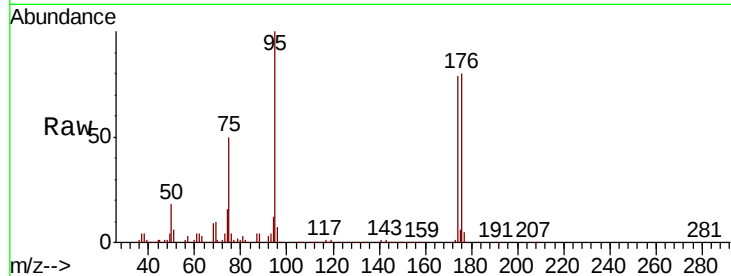
Tot Ion: 95 Resp: 242494

Ion Ratio Lower Upper

95 100

174 80.4 0.0 159.4

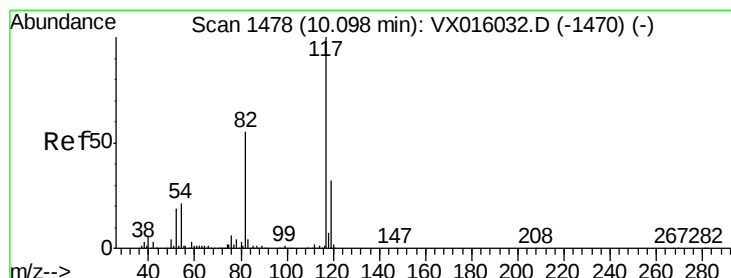
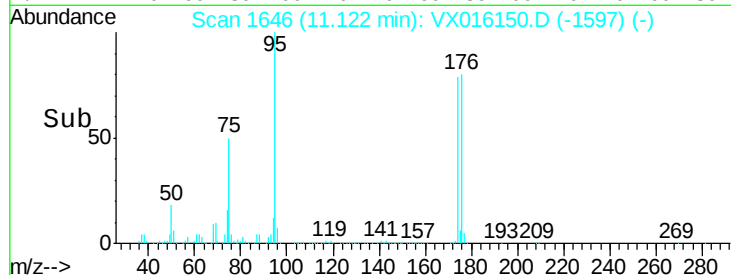
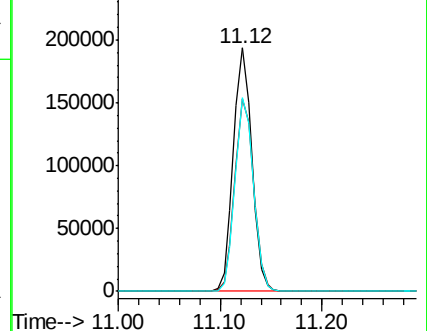
176 79.2 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016150.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016150.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016150.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

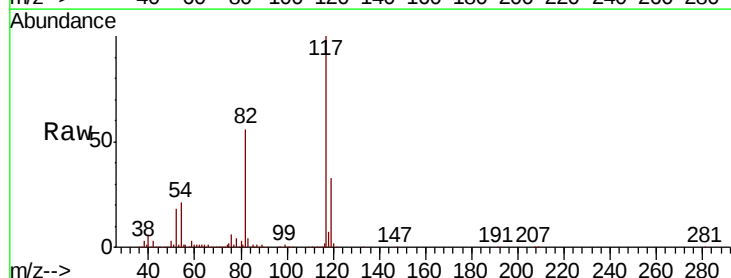
Tgt Ion: 117 Resp: 482185

Ion Ratio Lower Upper

117 100

82 55.8 44.4 66.6

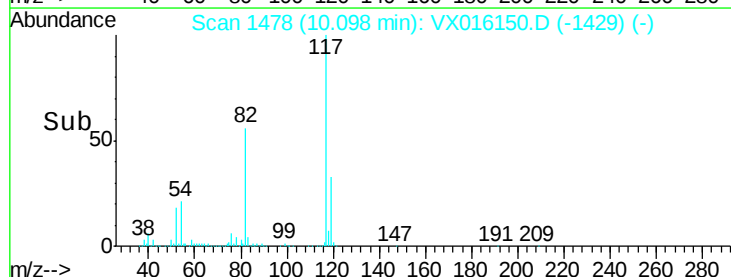
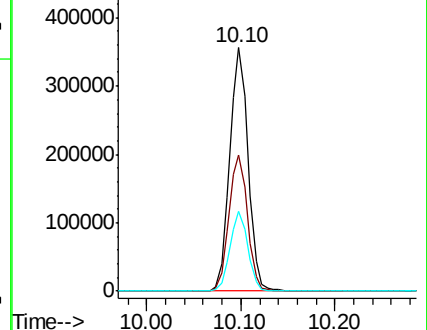
119 32.9 25.5 38.3

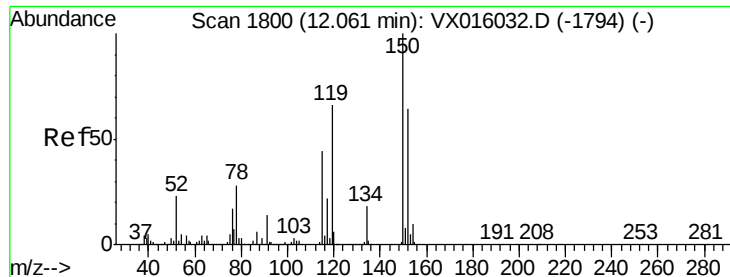


Abundance Ion 116.90 (116.60 to 117.60): VX016150.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016150.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016150.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

PB128761TB

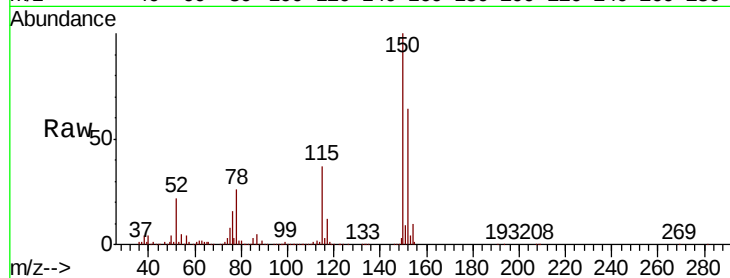
Tot Ion:152 Resp: 248529

Ion Ratio Lower Upper

152 100

115 58.0 41.3 124.1

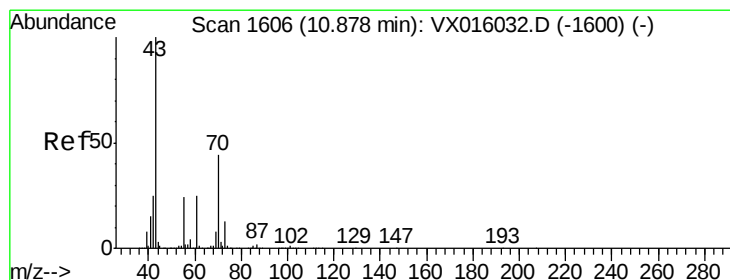
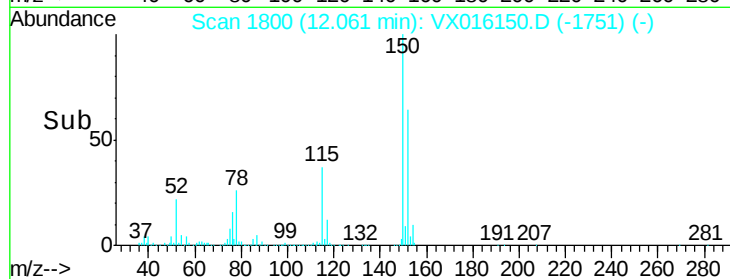
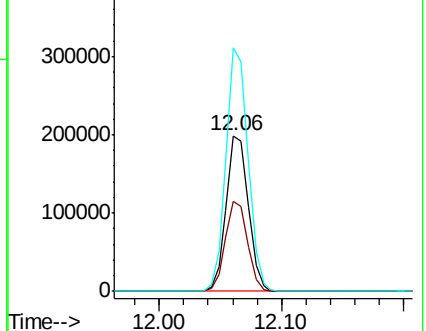
150 155.6 0.0 352.2



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: 0.517 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Tgt Ion: 43 Resp: 4363

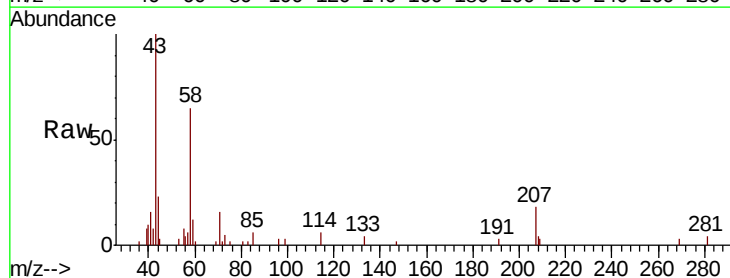
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 12.6 19.7 29.5#

61 0.0 20.9 31.3#

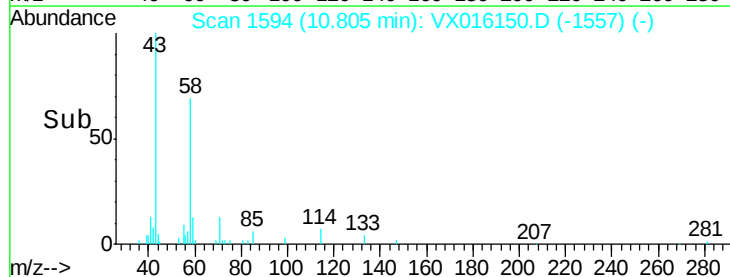
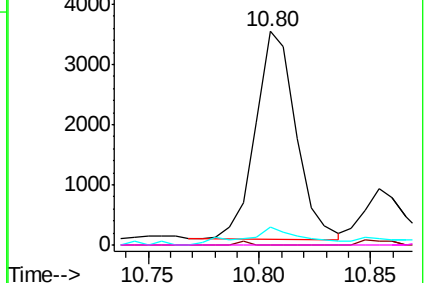


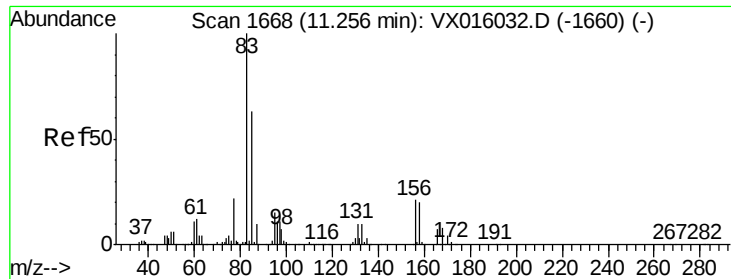
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 2.123 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

PB128761TB

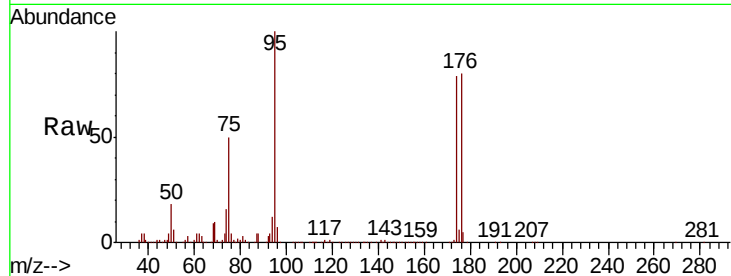
Tot Ion: 83 Resp: 248

Ion Ratio Lower Upper

83 100

131 131.5 5.1 15.4#

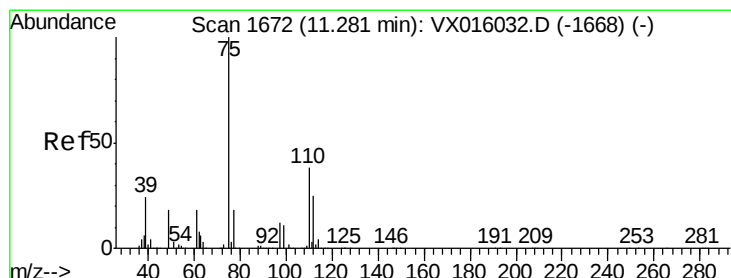
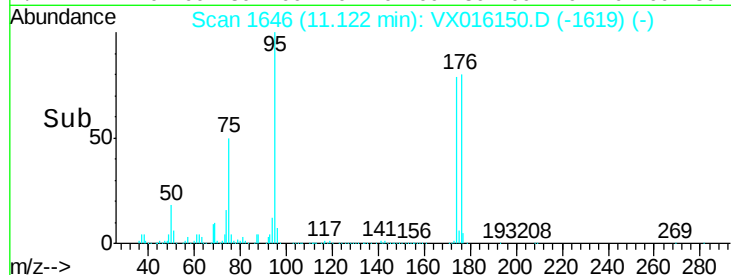
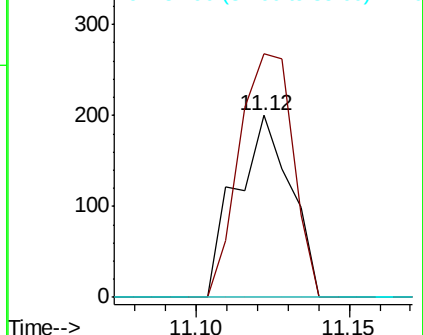
85 0.0 32.0 96.0#



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: 21.272 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016150.D

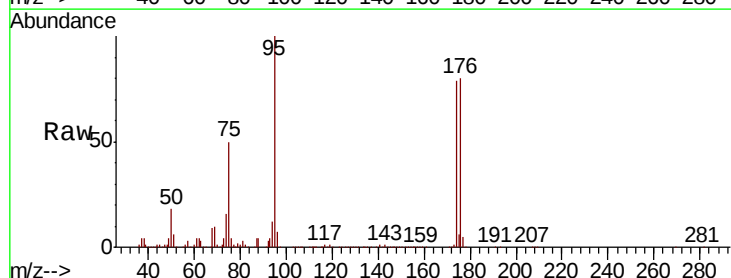
Acq: 11 May 2020 15:42

Tgt Ion: 75 Resp: 119967

Ion Ratio Lower Upper

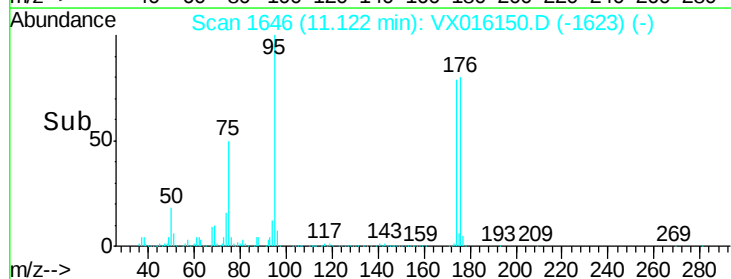
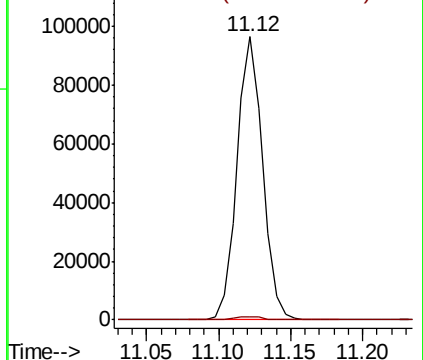
75 100

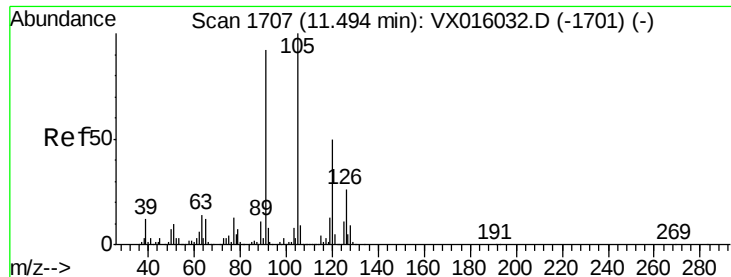
77 1.4 21.2 63.6#



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: 0.230 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

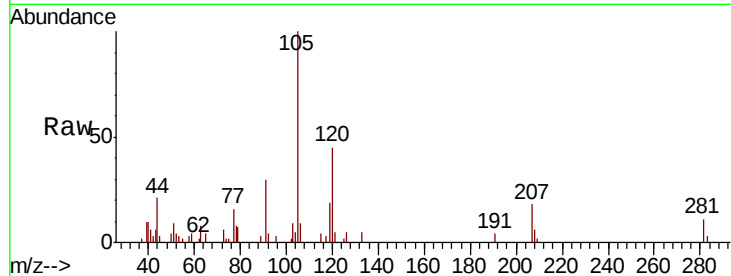
PB128761TB

Tot Ion:105 Resp: 3516

Ion Ratio Lower Upper

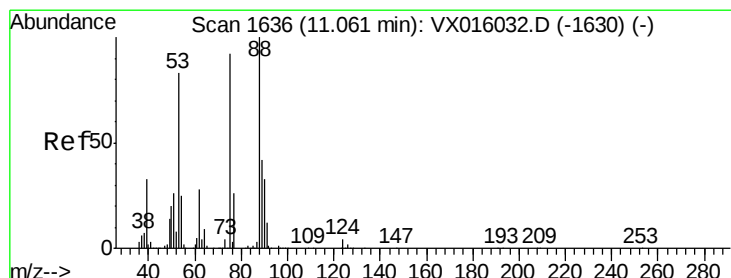
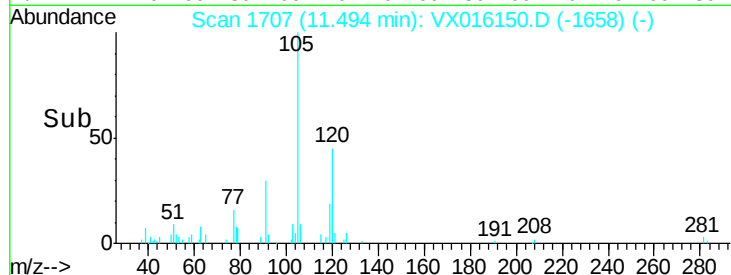
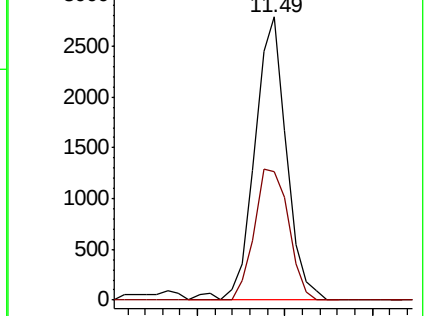
105 100

120 49.7 24.6 74.0



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: 50.693 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

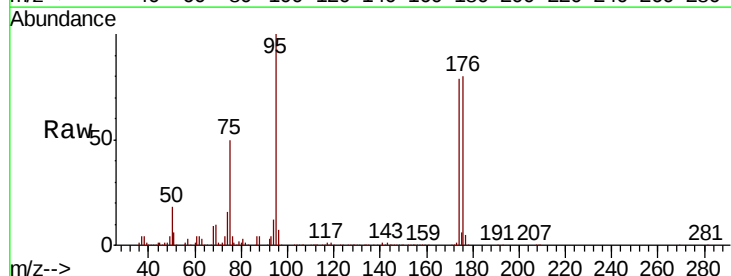
Tgt Ion: 75 Resp: 119967

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

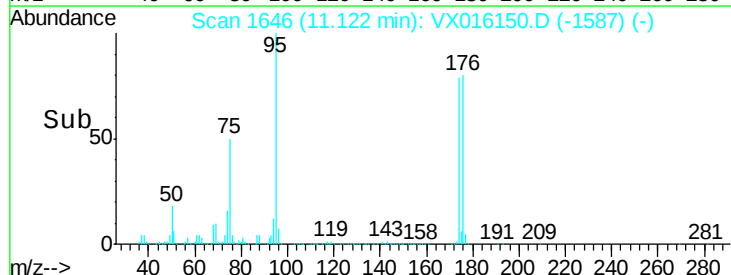
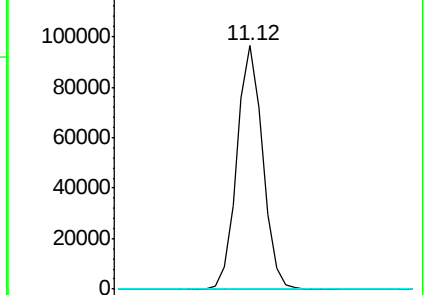
89 0.0 36.7 55.1#

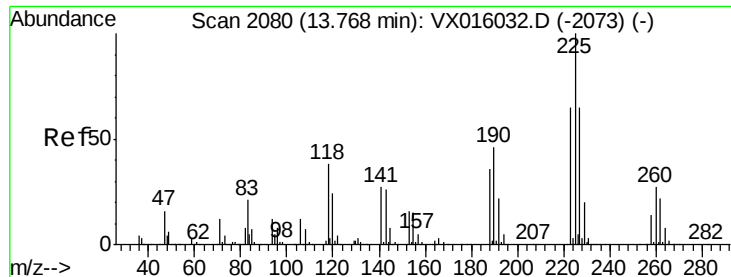


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.561 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016150.D

Acq: 11 May 2020 15:42

Instrument :

MSVOA_X

ClientSampleId :

PB128761TB

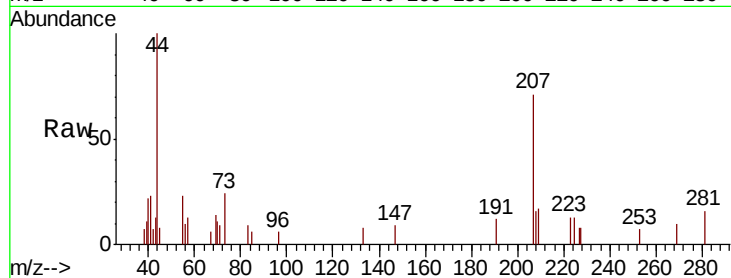
Tot Ion:225 Resp: 97

Ion Ratio Lower Upper

225 100

223 86.6 32.3 96.9

227 110.3 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

