

Data File : VX017291.D
Acq On : 09 Jul 2020 05:06
Operator : JC/SP
Sample : PB130015ZHE#06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB130015ZHE#06

Quant Time: Jul 09 06:18:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	248893	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	418259	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	455376	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	236433	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	163086	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	
35) Dibromofluoromethane	5.47	113	140919	53.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.52%	
50) Toluene-d8	8.70	98	531900	54.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.74%	
62) 4-Bromofluorobenzene	11.12	95	220797	57.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	672	0.861	ug/l	78
11) Tert butyl alcohol	3.02	59	836	1.428	ug/l #	73
13) Acrolein	2.27	56	335	0.957	ug/l #	72
16) Acetone	2.42	43	16380	14.270	ug/l	94
18) Methyl Acetate	2.75	43	3544	1.183	ug/l	100
20) Methylene Chloride	2.84	84	19639	6.784	ug/l	96
25) 2-Butanone	4.64	43	2830	1.480	ug/l	93
29) Tetrahydrofuran	5.11	42	1194	0.945	ug/l #	63
36) 1,1-Dichloropropene	5.62	75	17976	4.547	ug/l #	51
38) Carbon Tetrachloride	5.63	117	23938	5.498	ug/l #	18
43) Isopropyl Acetate	6.42	43	71303	10.698	ug/l	99
44) Trichloroethene	7.18	130	34	Below Cal		37
48) Methyl methacrylate	7.85	41	123098	38.876	ug/l #	44
49) 1,4-Dioxane	7.72	88	24	0.335	ug/l #	24
51) 4-Methyl-2-Pentanone	8.59	43	67885	17.087	ug/l #	52
54) cis-1,3-Dichloropropene	8.59	75	30486	6.141	ug/l #	66
56) Ethyl methacrylate	9.29	69	1788	0.424	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	6073	1.211	ug/l #	44
59) 2-Hexanone	9.42	43	69965	24.113	ug/l #	23
76) 1,2,3-Trichloropropane	11.12	75	111699	24.025	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	6515	0.507	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	111699	62.216	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	319	Below Cal		84
94) Hexachlorobutadiene	13.76	225	109	0.901	ug/l #	17

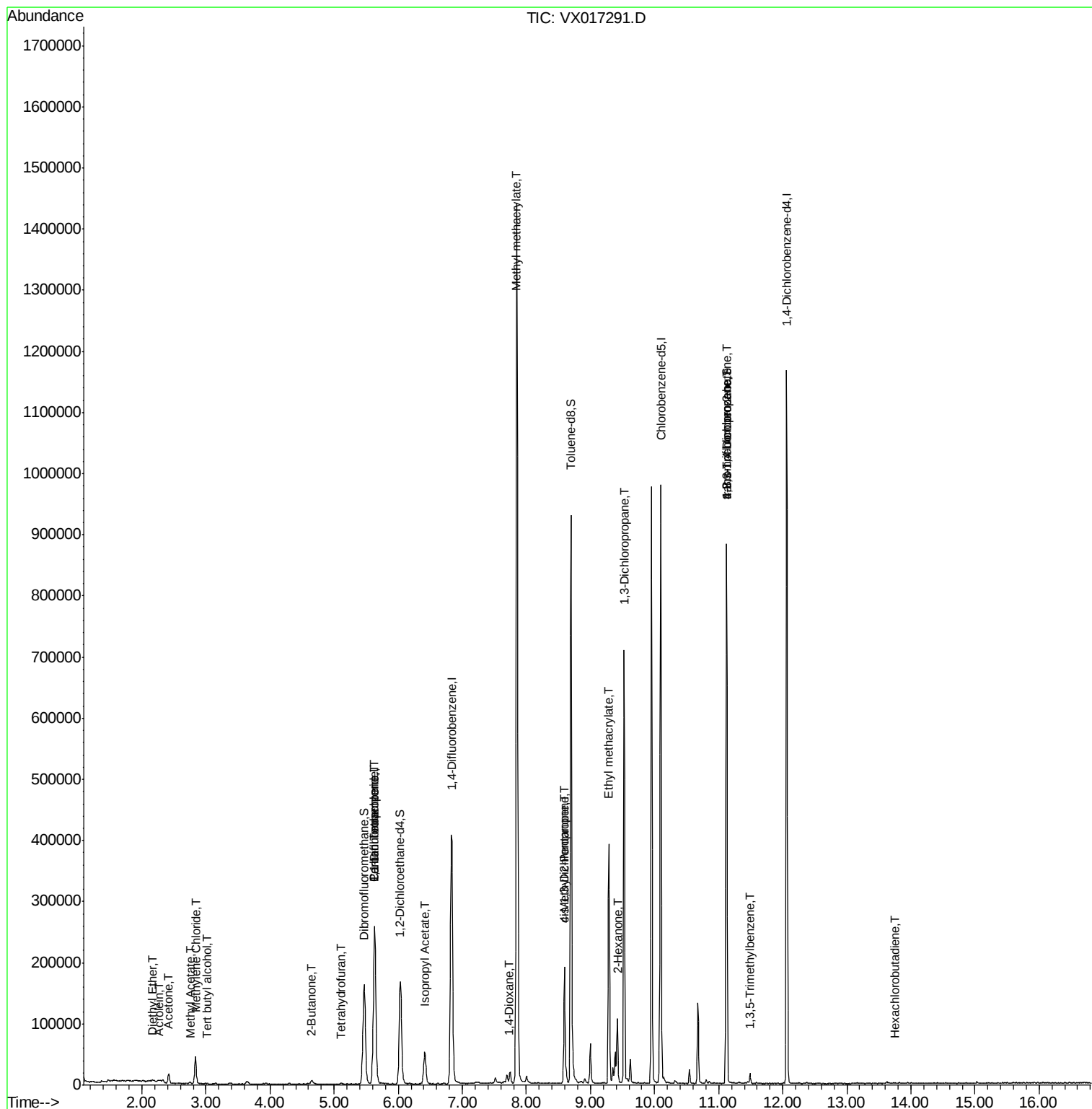
(#) = qualifier out of range (m) = manual integration (+) = signals summed

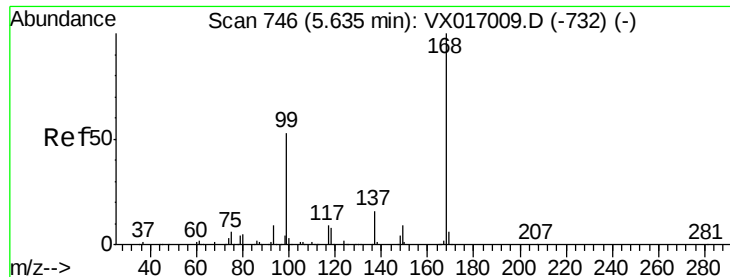
Data File : VX017291.D

```
Acq On       : 09 Jul 2020   05:06
Operator    : JC/SP
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ALS Vial    : 50   Sample Multiplier: 1
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Instrument :
MSVOA_X
ClientSampleId :
PB130015ZHE#06

Quant Time: Jul 09 06:18:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

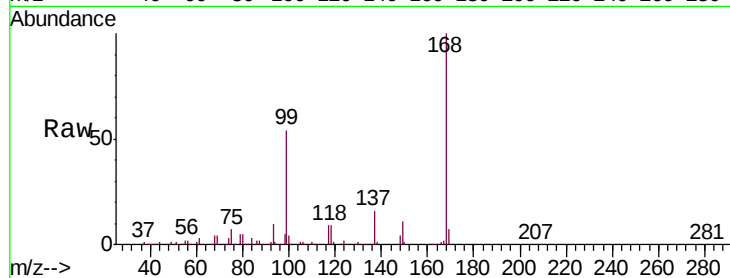
PB130015ZHE#06

Tgt Ion:168 Resp: 248893

Ion Ratio Lower Upper

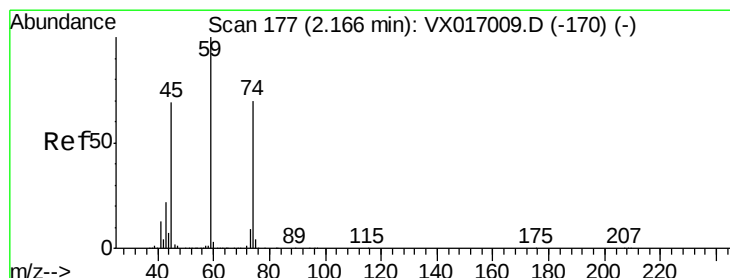
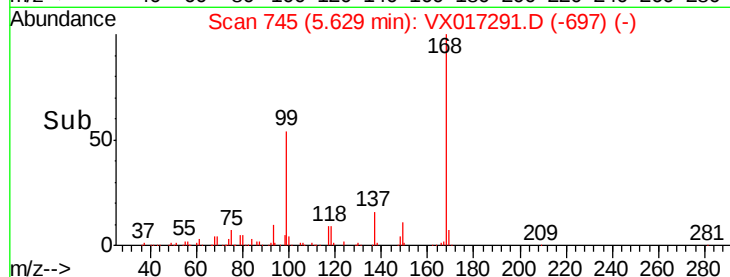
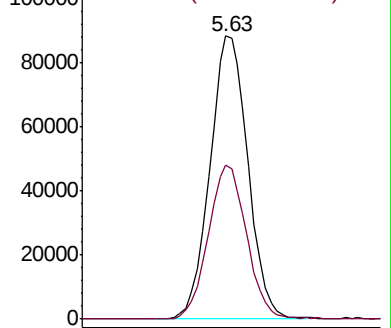
168 100

99 54.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.861 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017291.D

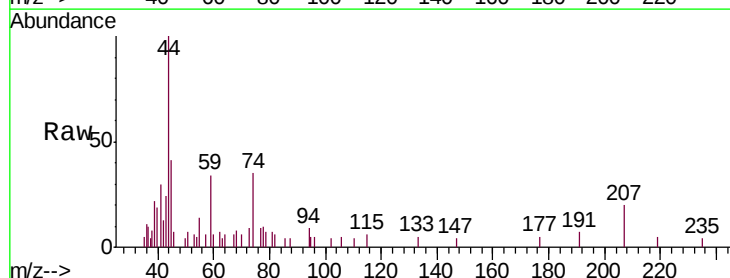
Acq: 09 Jul 2020 05:06

Tgt Ion: 74 Resp: 672

Ion Ratio Lower Upper

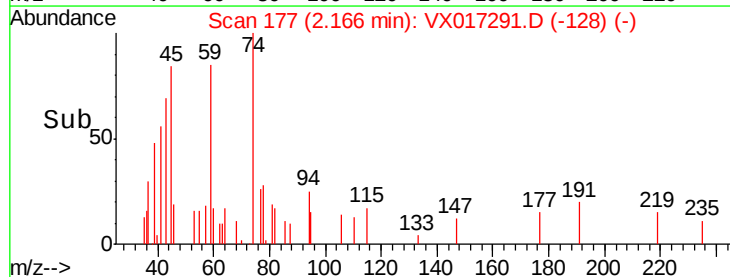
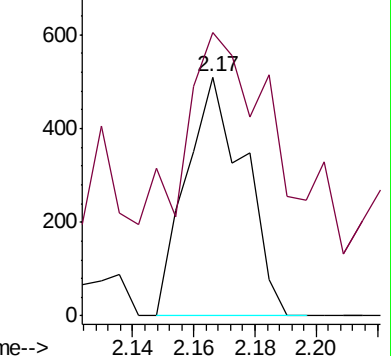
74 100

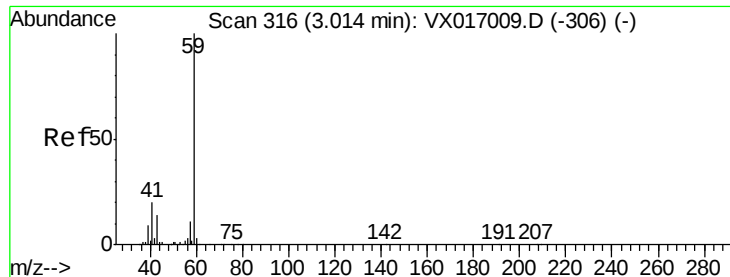
45 121.3 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

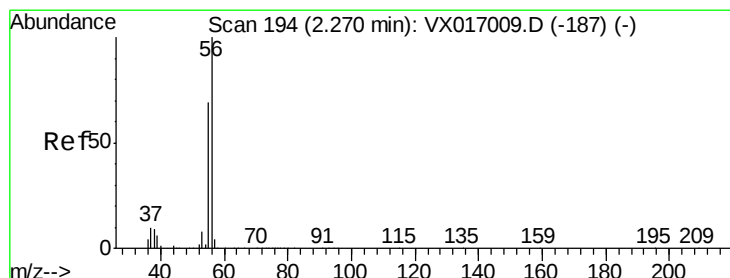
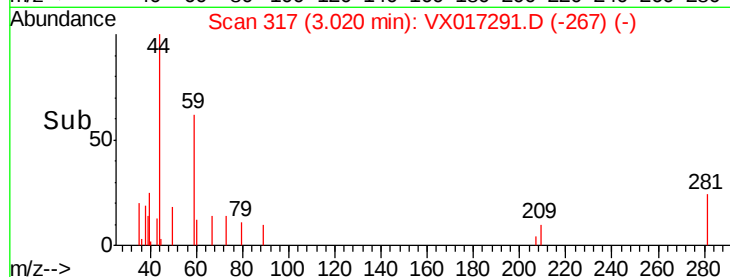
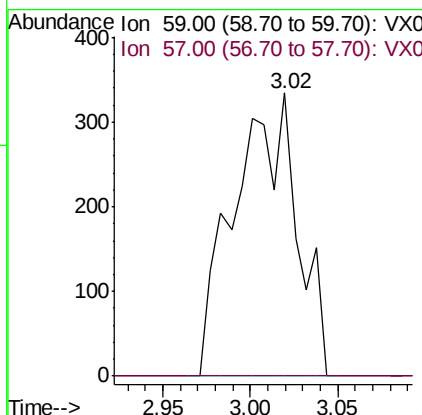
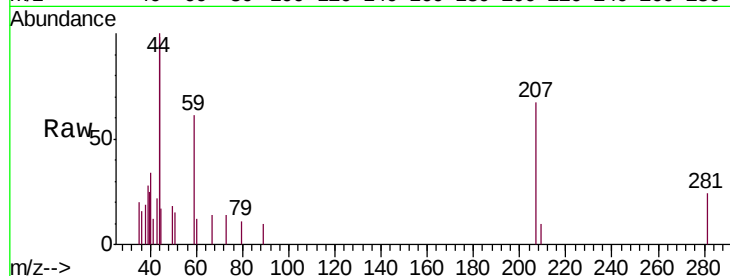




#11
Tert butyl alcohol
Concen: 1.428 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

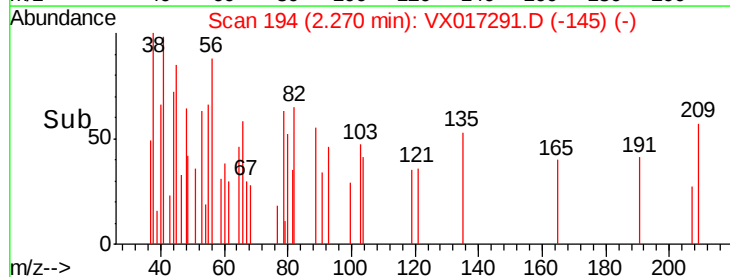
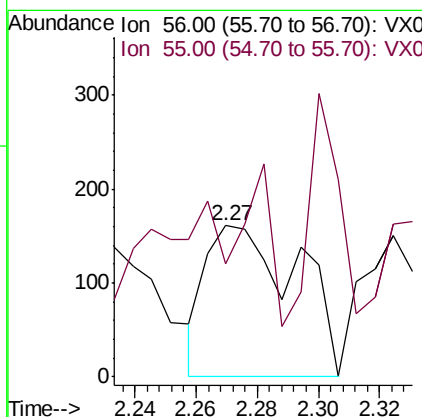
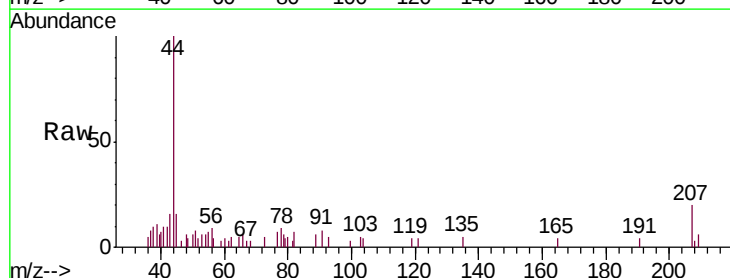
Instrument :
MSVOA_X
ClientSampleId :
PB130015ZHE#06

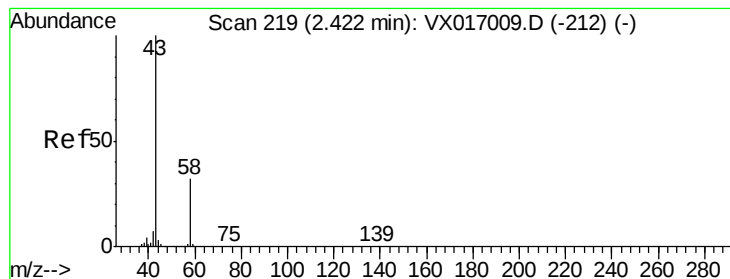
Tgt Ion: 59 Resp: 836
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.957 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

Tgt Ion: 56 Resp: 335
Ion Ratio Lower Upper
56 100
55 46.9 55.7 83.5#





#16

Acetone

Concen: 14.270 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

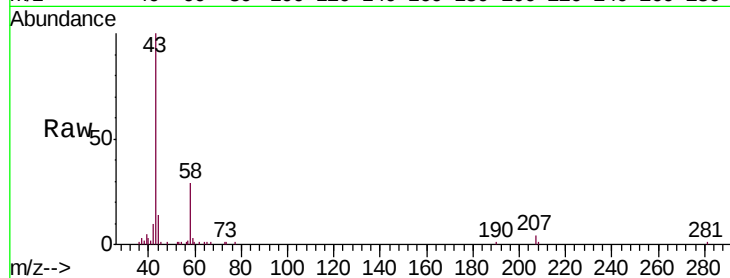
PB130015ZHE#06

Tgt Ion: 43 Resp: 16380

Ion Ratio Lower Upper

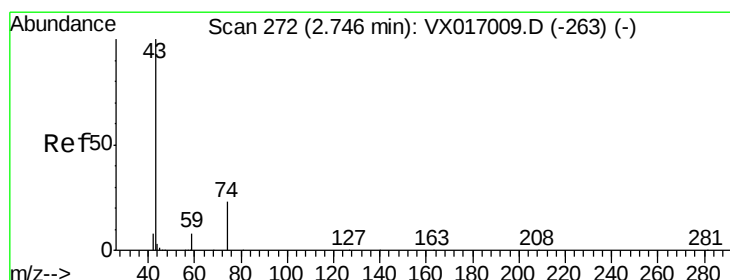
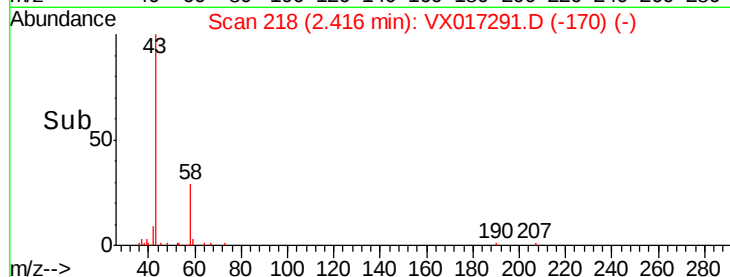
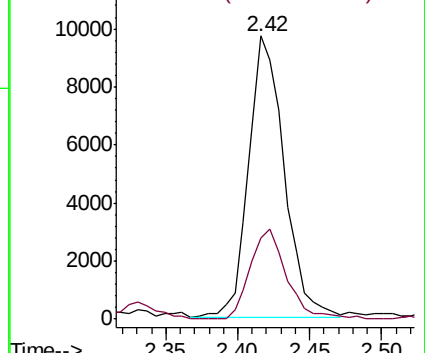
43 100

58 29.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.183 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX017291.D

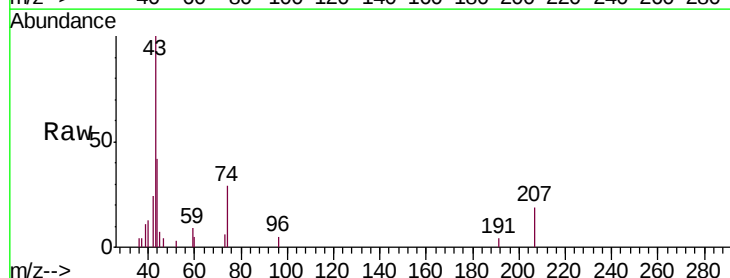
Acq: 09 Jul 2020 05:06

Tgt Ion: 43 Resp: 3544

Ion Ratio Lower Upper

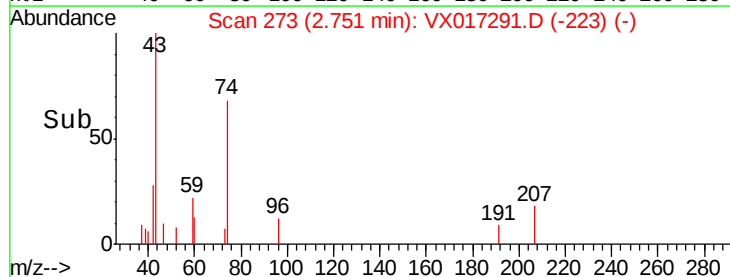
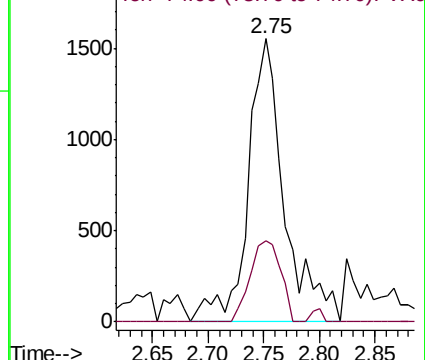
43 100

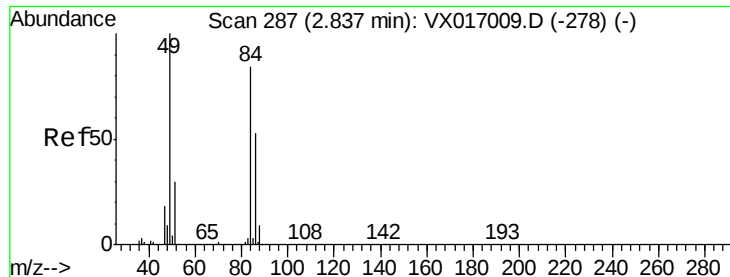
74 24.0 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

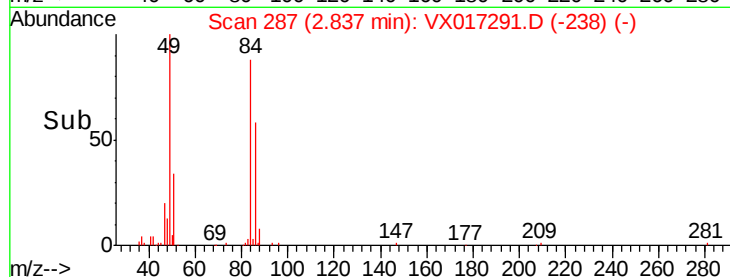
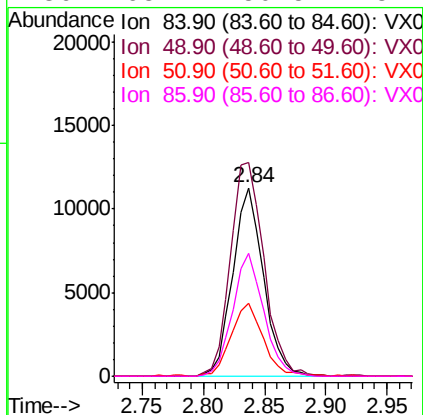
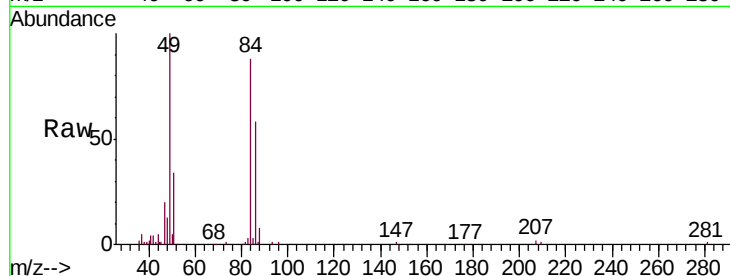




#20
Methylene Chloride
Concen: 6.784 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

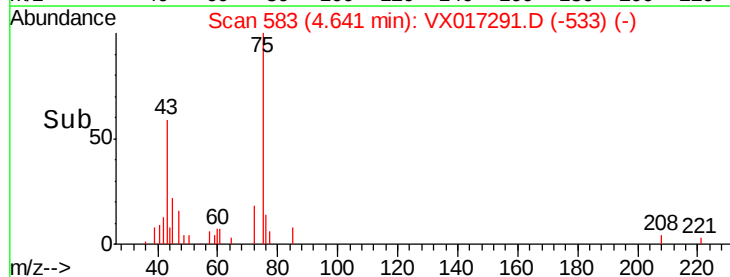
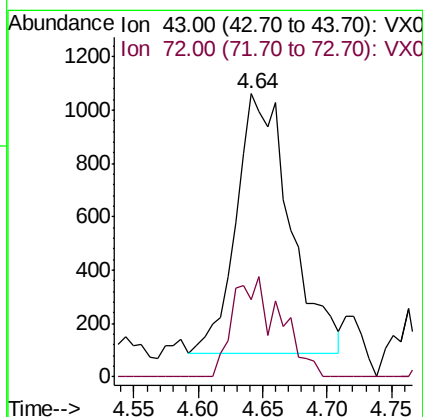
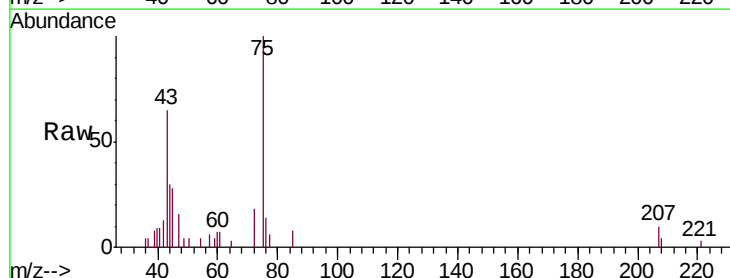
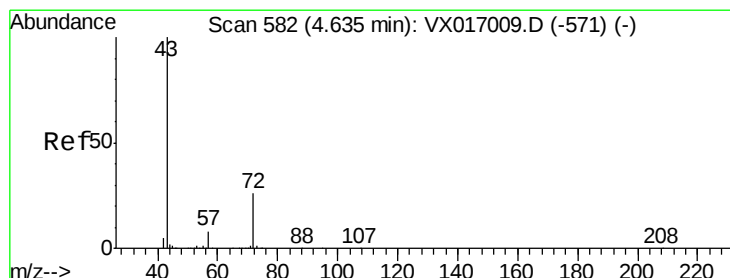
Instrument :
MSVOA_X
ClientSampleId :
PB130015ZHE#06

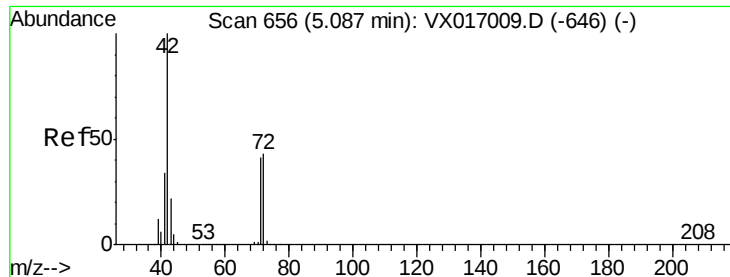
Tgt Ion:	84	Resp:	19639
Ion	Ratio	Lower	Upper
84	100		
49	113.2	94.7	142.1
51	38.8	28.6	42.8
86	65.4	50.5	75.7



#25
2-Butanone
Concen: 1.480 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

Tgt Ion:	43	Resp:	2830
Ion	Ratio	Lower	Upper
43	100		
72	29.8	20.8	31.2





#29

Tetrahydrofuran

Concen: 0.945 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

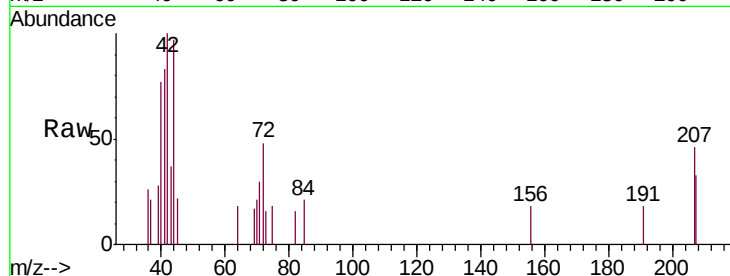
Tgt Ion: 42 Resp: 1194

Ion Ratio Lower Upper

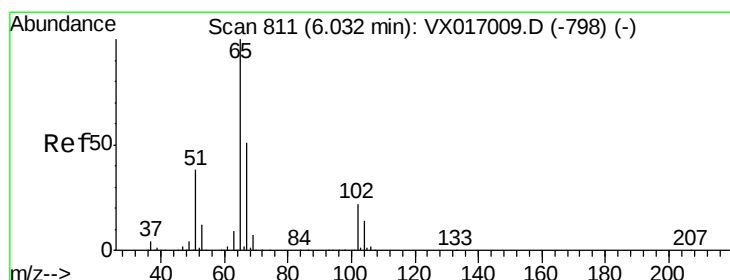
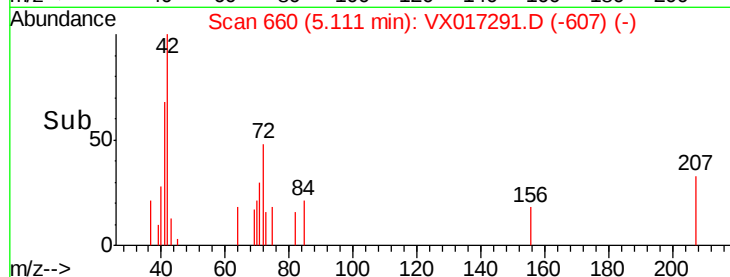
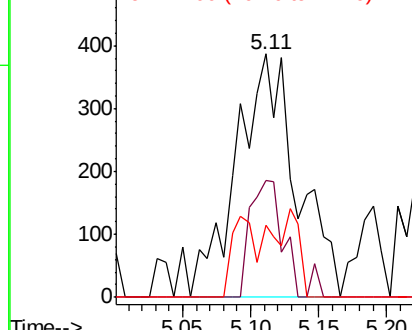
42 100

72 25.7 35.3 52.9#

71 12.5 33.1 49.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.151 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017291.D

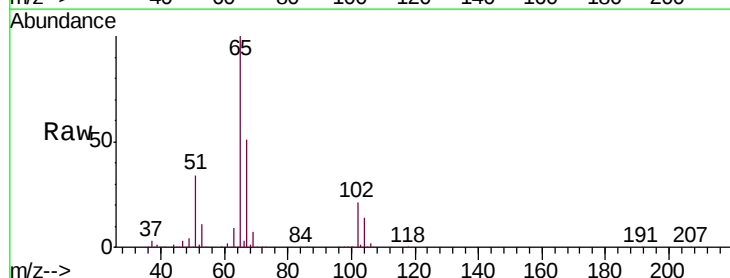
Acq: 09 Jul 2020 05:06

Tgt Ion: 65 Resp: 163086

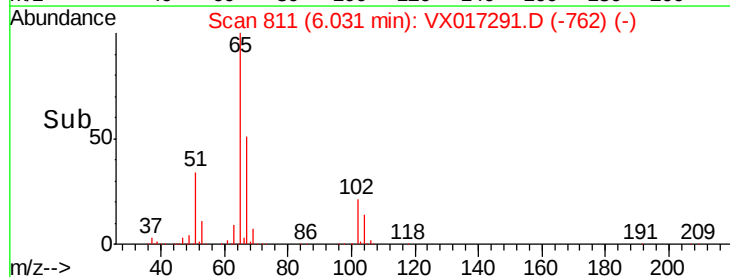
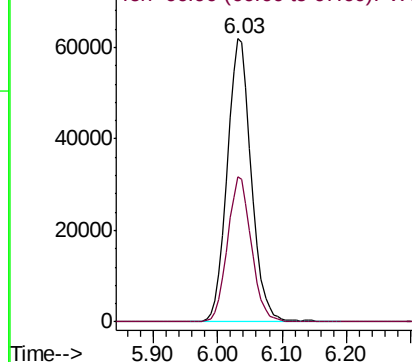
Ion Ratio Lower Upper

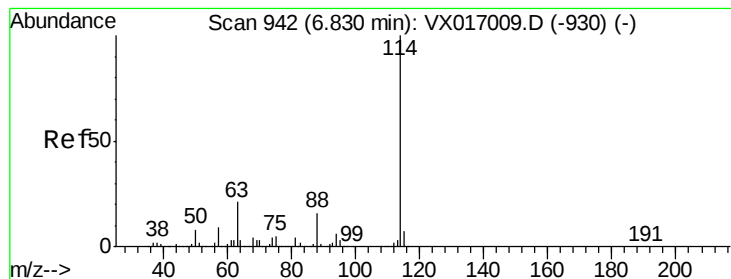
65 100

67 50.7 0.0 103.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

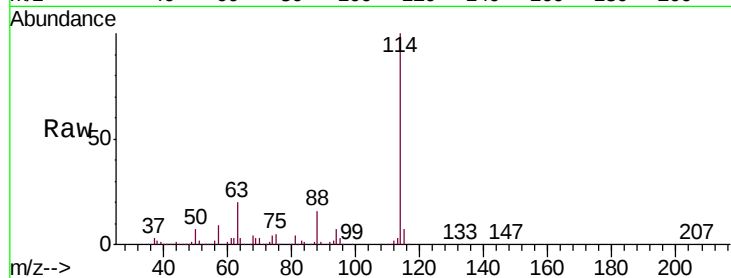
Tgt Ion:114 Resp: 418259

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

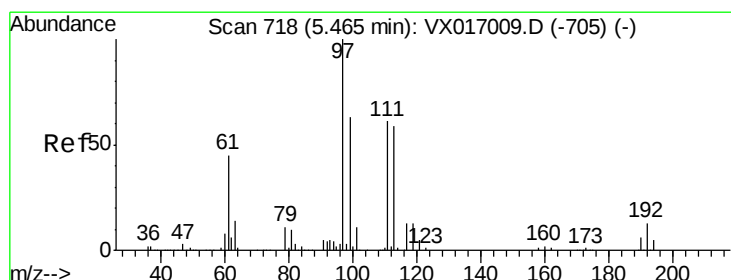
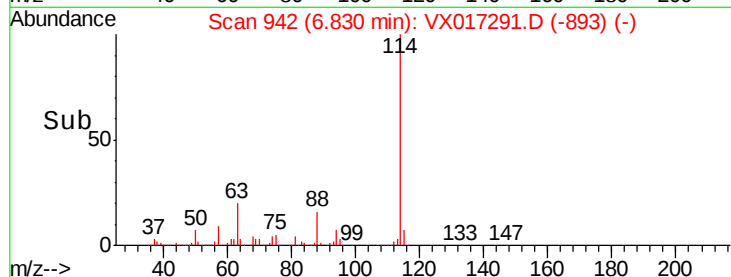
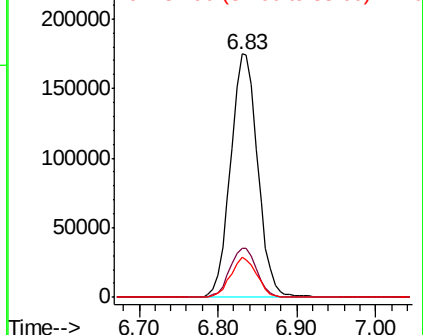
88 16.2 0.0 32.4



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: 53.262 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

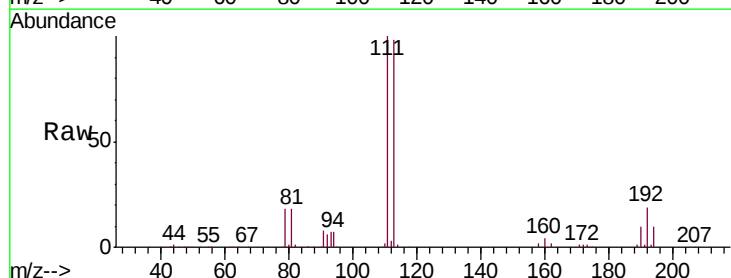
Tgt Ion:113 Resp: 140919

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

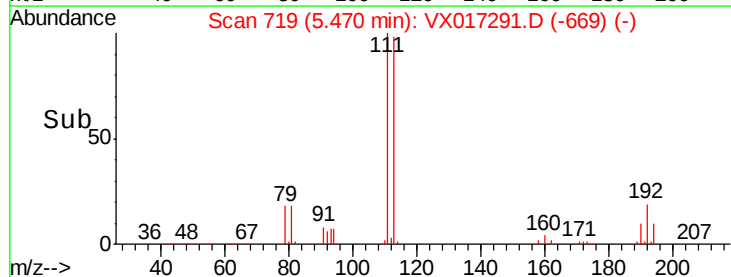
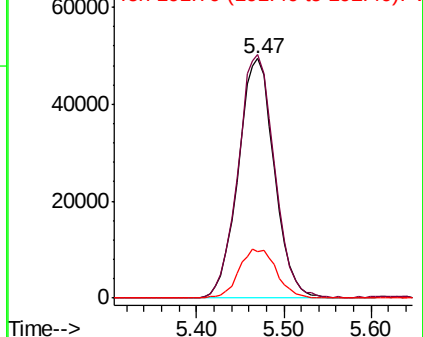
192 21.3 16.7 25.1

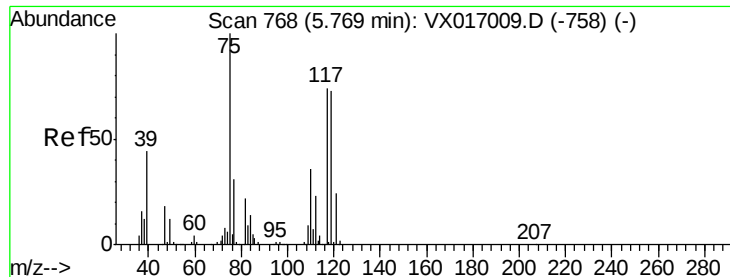


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.547 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

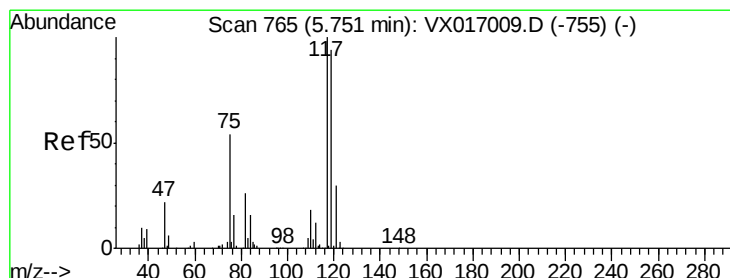
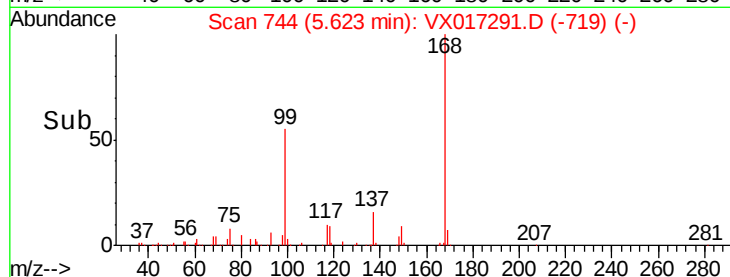
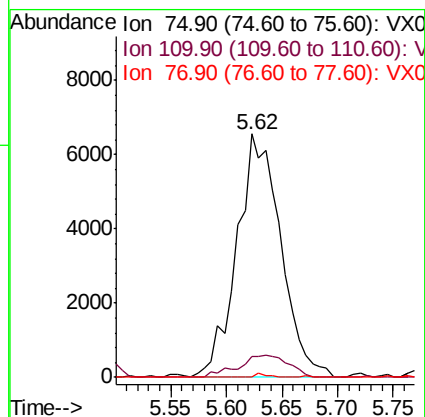
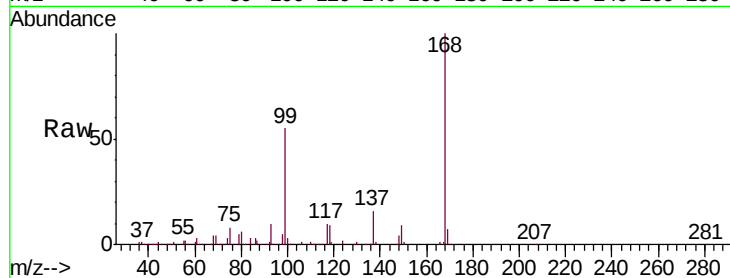
Tgt Ion: 75 Resp: 17976

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.1#

77 0.4 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.498 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

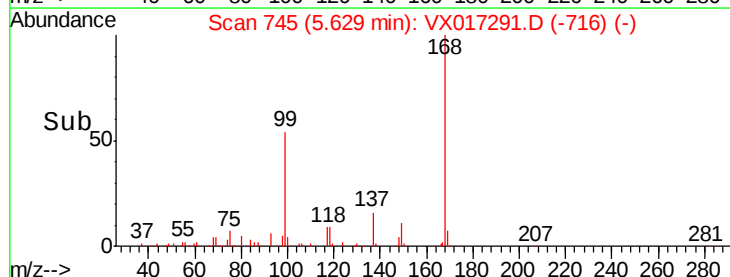
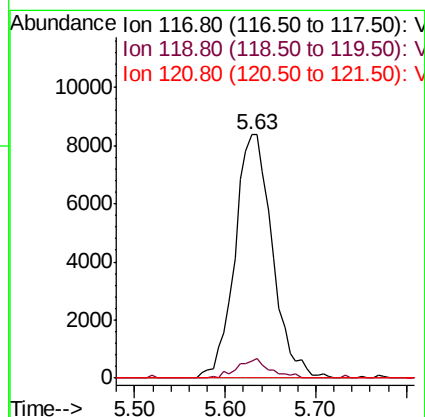
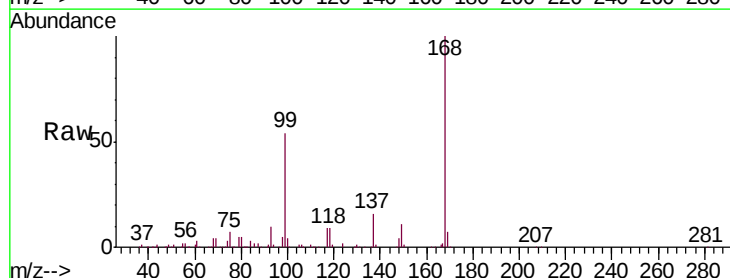
Tgt Ion: 117 Resp: 23938

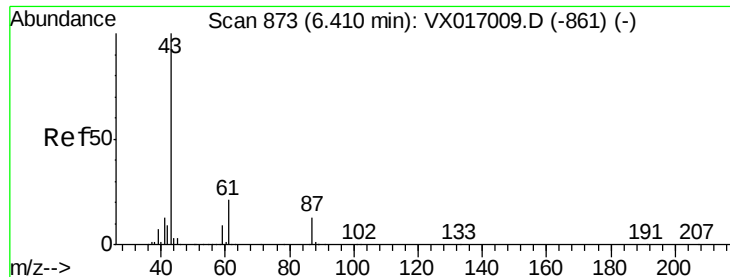
Ion Ratio Lower Upper

117 100

119 7.3 75.4 113.0#

121 0.0 23.8 35.6#





#43

Isopropyl Acetate

Concen: 10.698 ug/l

RT: 6.42 min Scan# 874

Delta R.T. 0.01 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

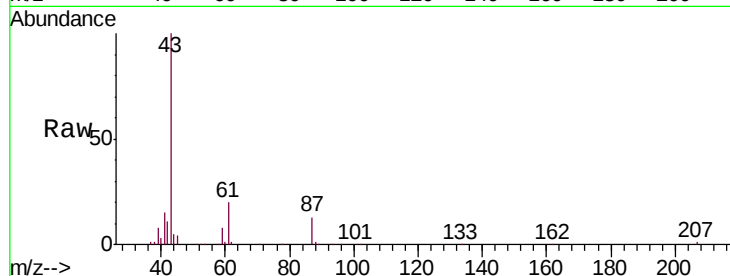
Tgt Ion: 43 Resp: 71303

Ion Ratio Lower Upper

43 100

61 21.0 16.2 24.2

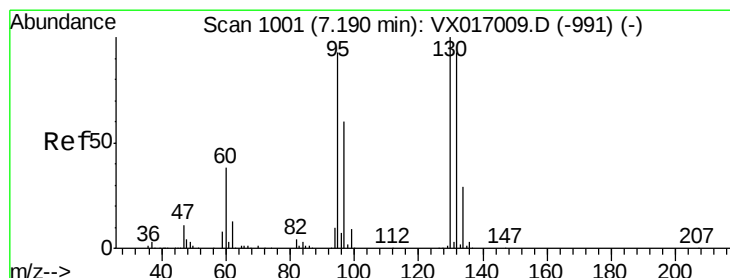
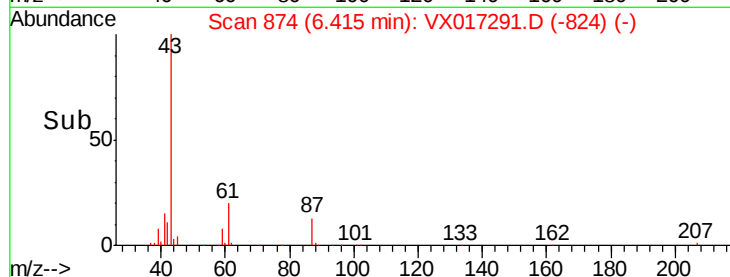
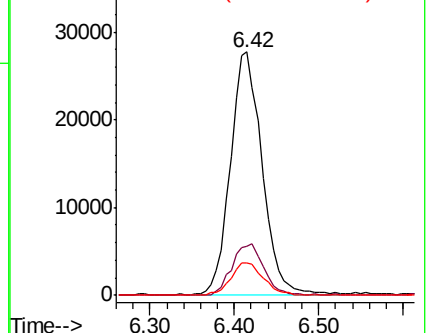
87 13.6 10.7 16.1



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.18 min Scan# 1000

Delta R.T. -0.01 min

Lab File: VX017291.D

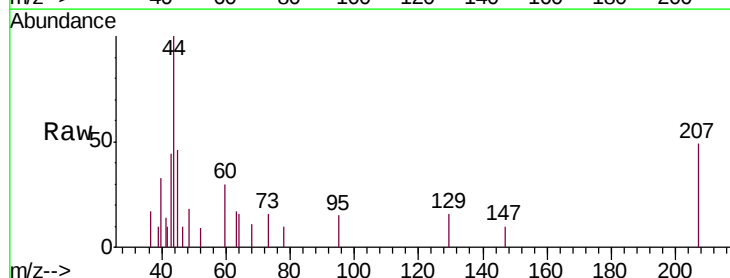
Acq: 09 Jul 2020 05:06

Tgt Ion: 130 Resp: 34

Ion Ratio Lower Upper

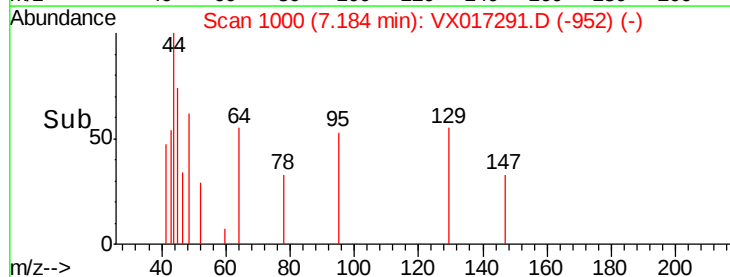
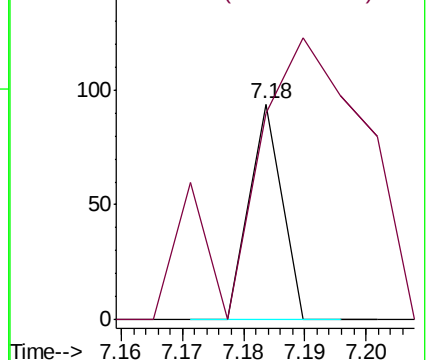
130 100

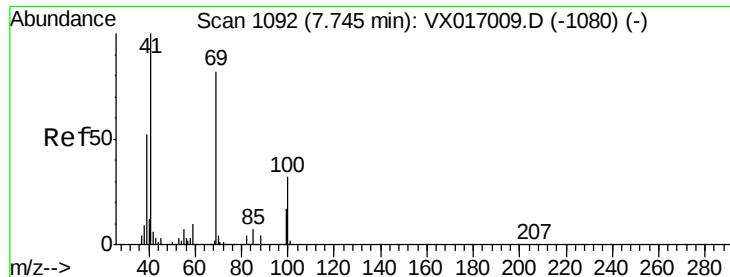
95 31.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

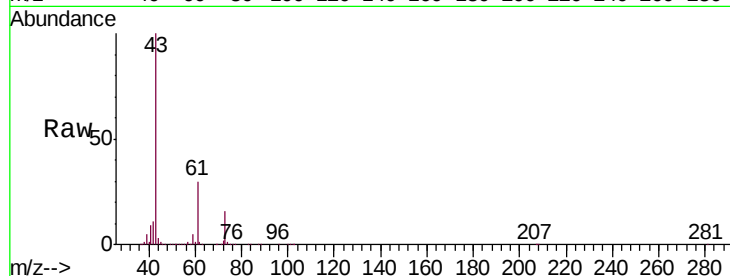




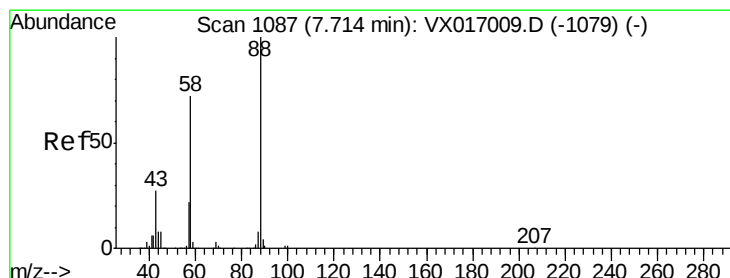
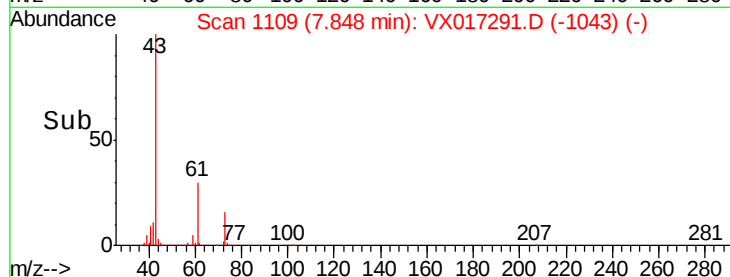
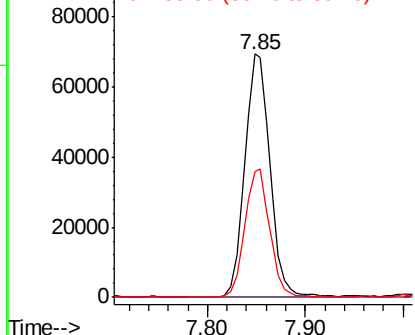
#48
Methyl methacrylate
Concen: 38.876 ug/l
RT: 7.85 min Scan# 1109
Delta R.T. 0.10 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

Instrument :
MSVOA_X
ClientSampleId :
PB130015ZHE#06

Tgt Ion: 41 Resp: 123098
Ion Ratio Lower Upper
41 100
69 0.4 65.8 98.8#
39 52.7 42.5 63.7

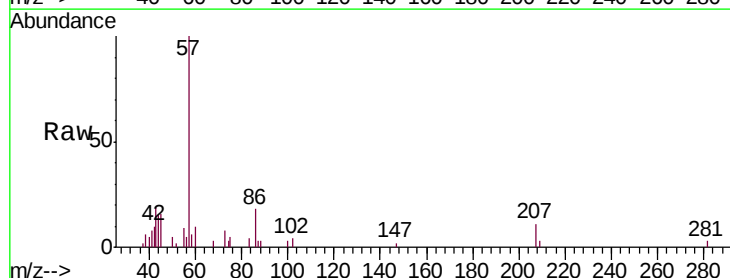


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

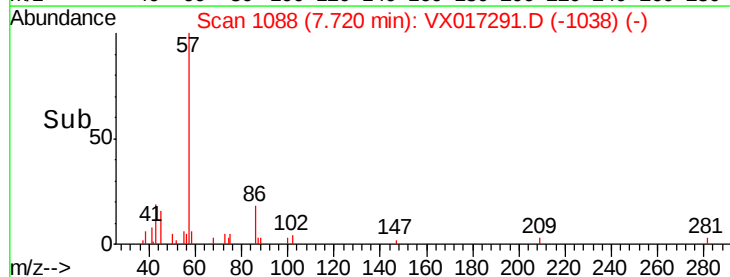
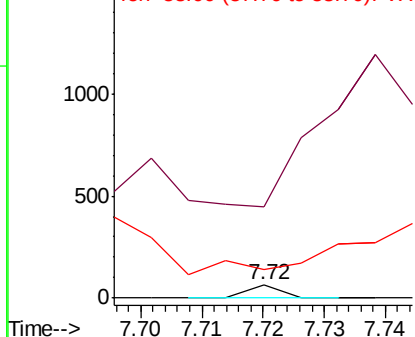


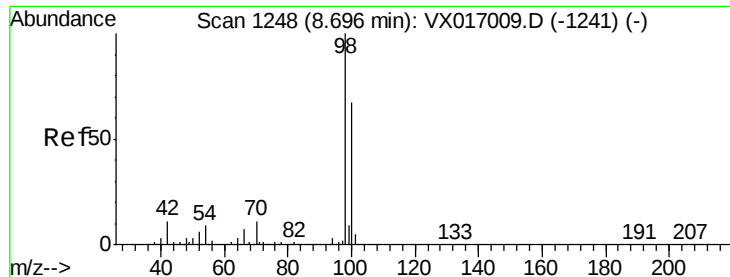
#49
1,4-Dioxane
Concen: 0.335 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017291.D
Acq: 09 Jul 2020 05:06

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 0.0 54.8 82.2#



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: 54.367 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

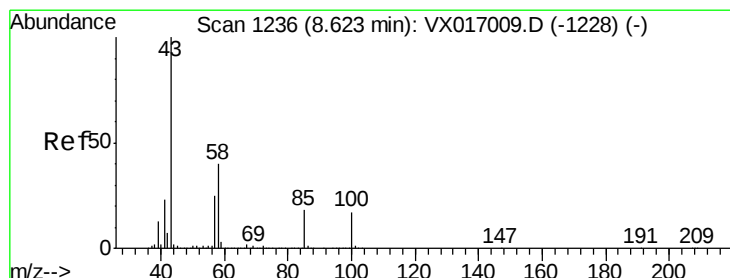
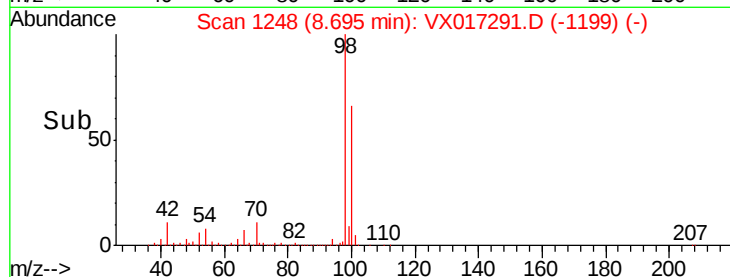
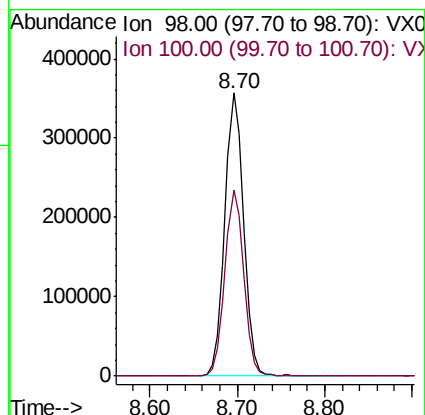
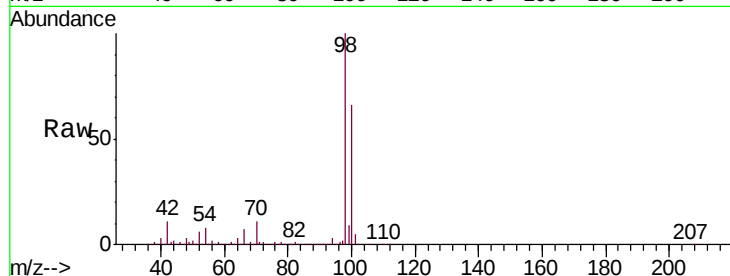
PB130015ZHE#06

Tgt Ion: 98 Resp: 531900

Ion Ratio Lower Upper

98 100

100 66.1 53.8 80.6



#51

4-Methyl-2-Pentanone

Concen: 17.087 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017291.D

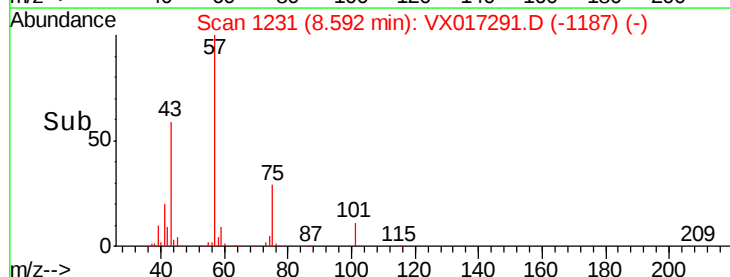
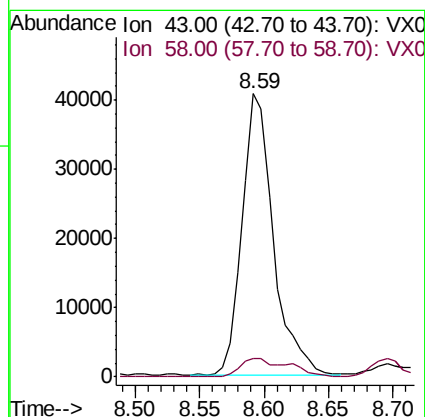
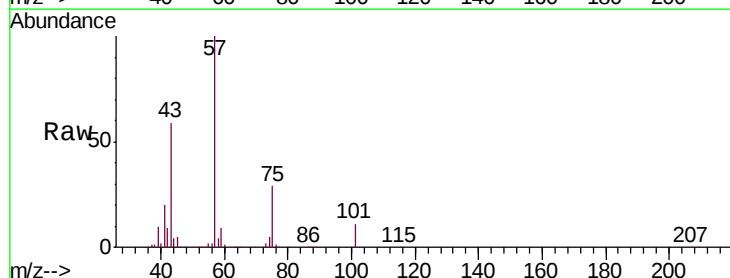
Acq: 09 Jul 2020 05:06

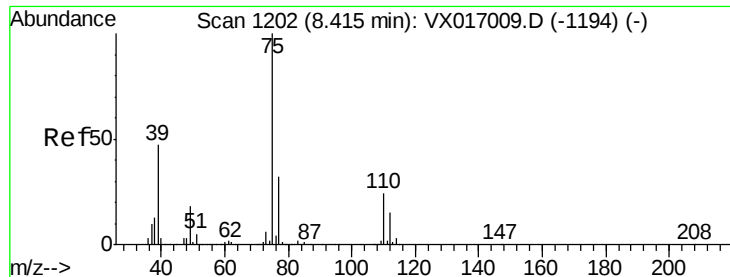
Tgt Ion: 43 Resp: 67885

Ion Ratio Lower Upper

43 100

58 10.5 31.9 47.9#





#54

cis-1,3-Dichloropropene

Concen: 6.141 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

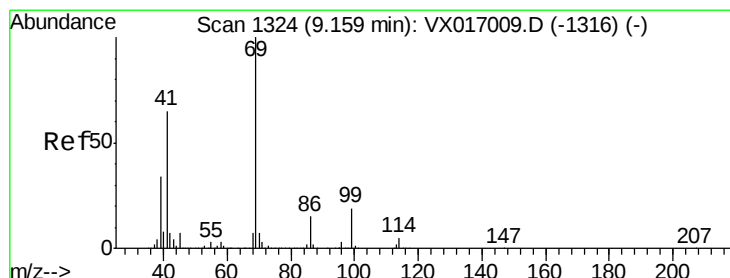
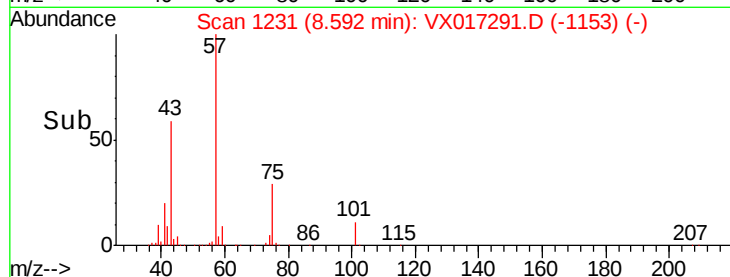
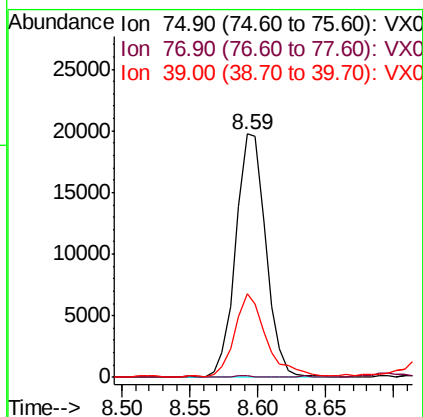
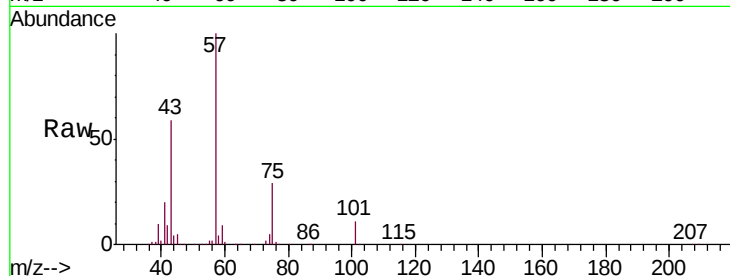
Tgt Ion: 75 Resp: 30486

Ion Ratio Lower Upper

75 100

77 0.6 25.2 37.8#

39 33.9 37.4 56.2#



#56

Ethyl methacrylate

Concen: 0.424 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

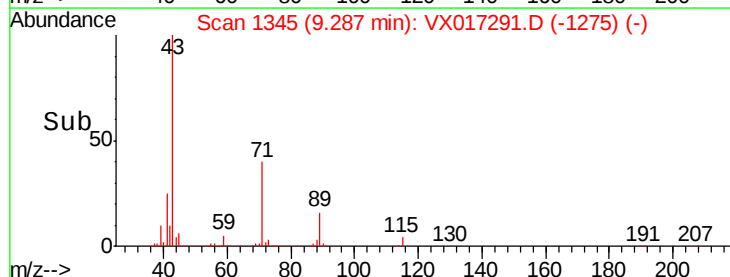
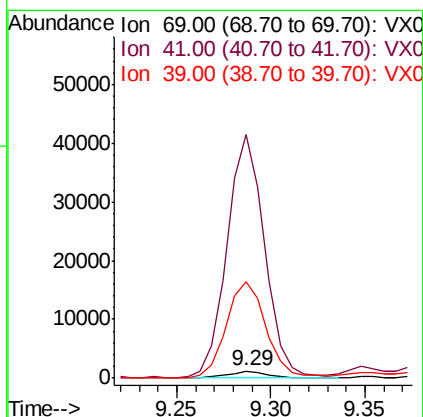
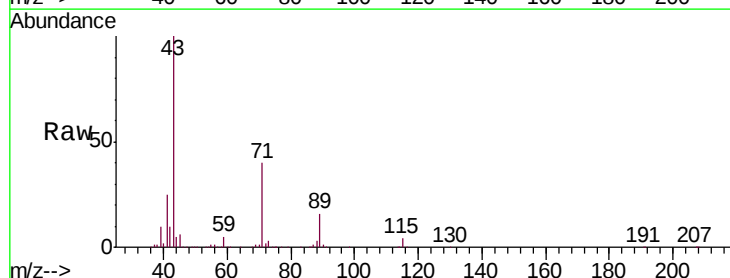
Tgt Ion: 69 Resp: 1788

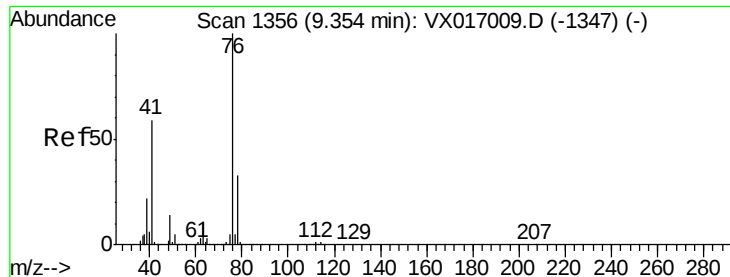
Ion Ratio Lower Upper

69 100

41 3197.7 53.6 80.4#

39 1348.2 28.2 42.2#





#57

1,3-Dichloropropane

Concen: 1.211 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

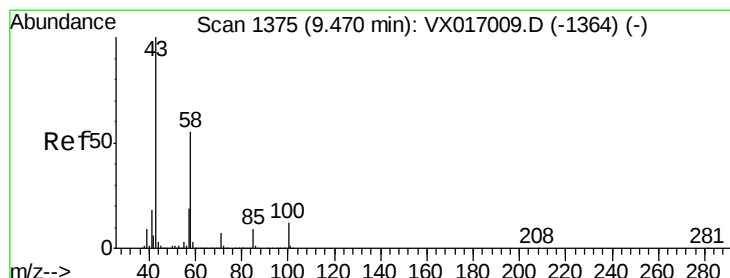
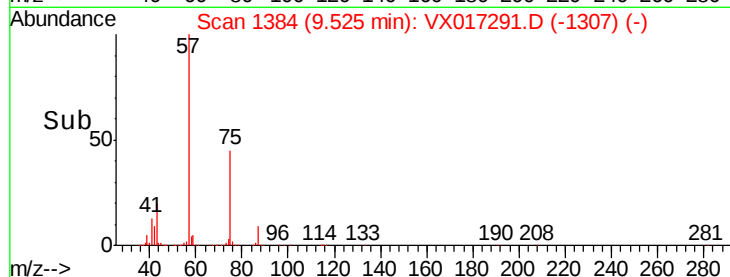
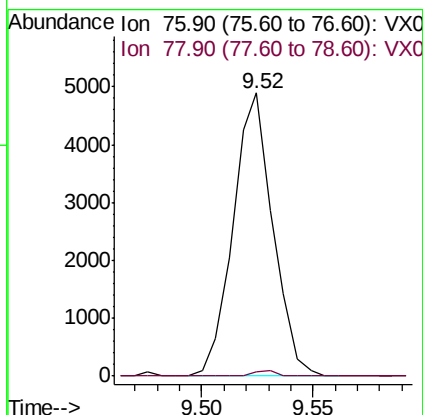
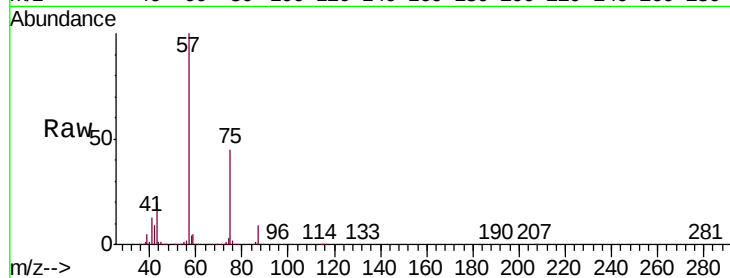
PB130015ZHE#06

Tgt Ion: 76 Resp: 6073

Ion Ratio Lower Upper

76 100

78 1.0 25.9 38.9#



#59

2-Hexanone

Concen: 24.113 ug/l

RT: 9.42 min Scan# 1367

Delta R.T. -0.05 min

Lab File: VX017291.D

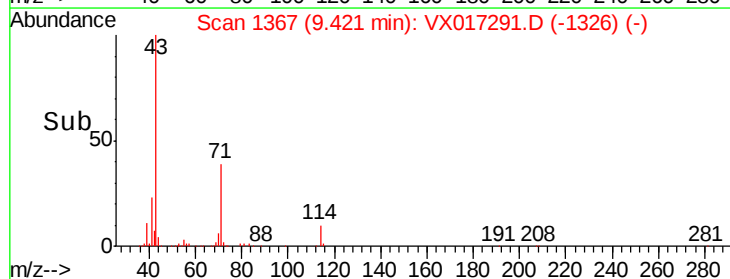
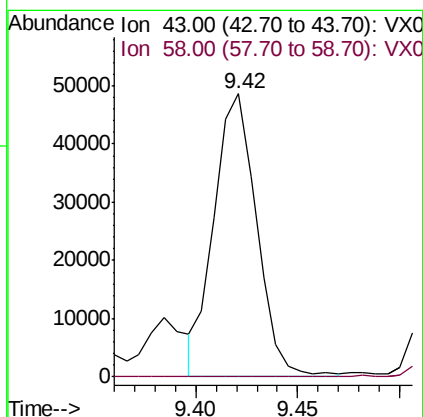
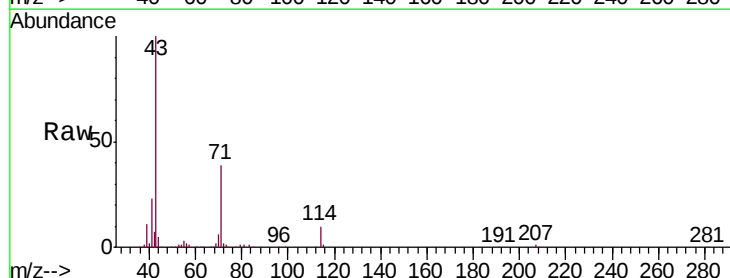
Acq: 09 Jul 2020 05:06

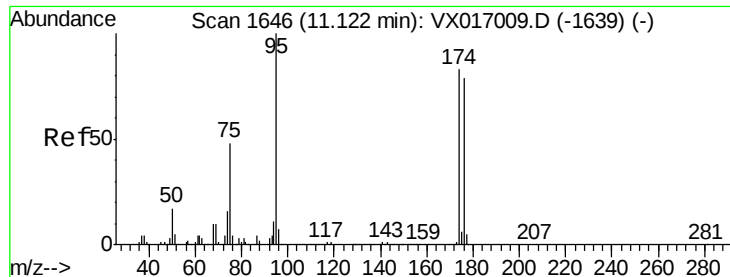
Tgt Ion: 43 Resp: 69965

Ion Ratio Lower Upper

43 100

58 0.0 27.9 83.6#





#62

4-Bromofluorobenzene

Concen: 57.732 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

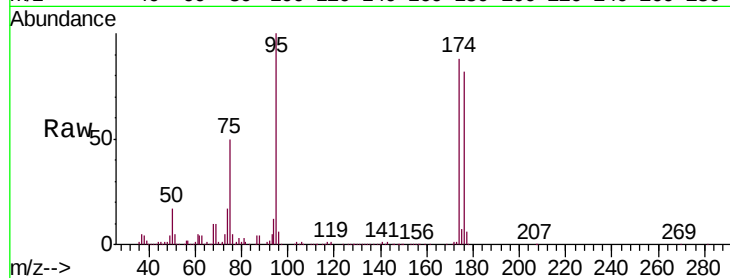
Tgt Ion: 95 Resp: 220797

Ion Ratio Lower Upper

95 100

174 86.8 0.0 164.0

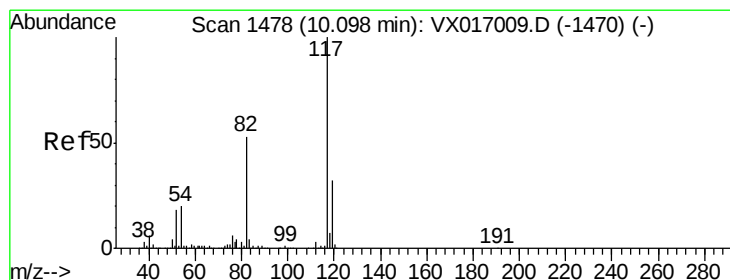
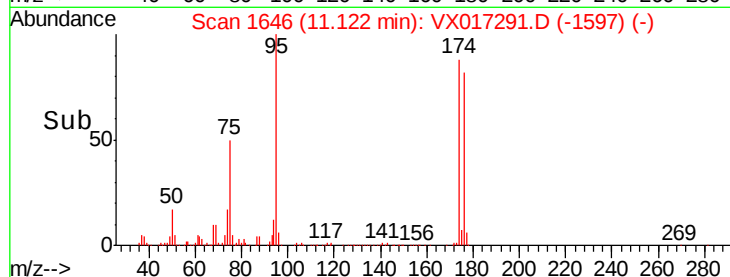
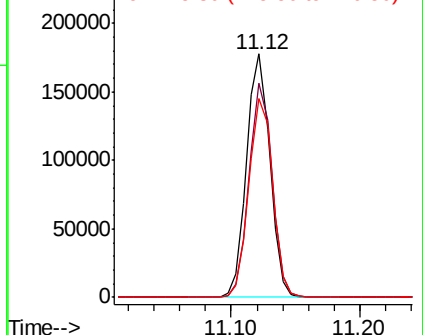
176 83.6 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017009.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017009.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017009.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

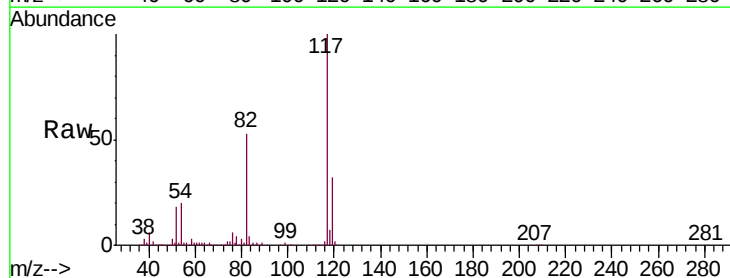
Tgt Ion: 117 Resp: 455376

Ion Ratio Lower Upper

117 100

82 53.0 42.6 63.8

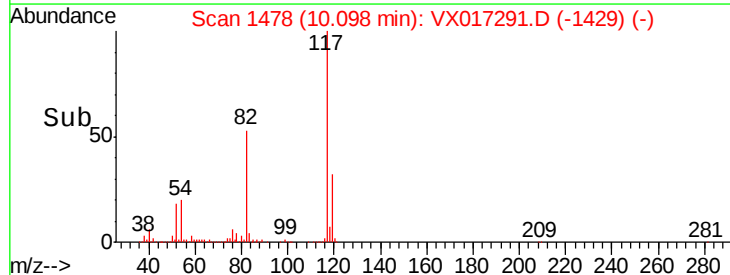
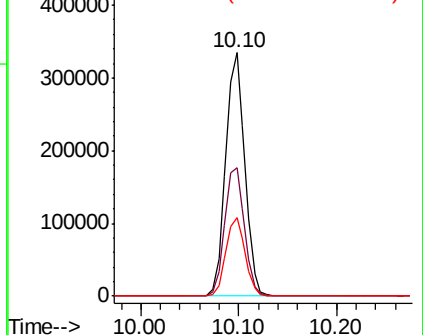
119 32.4 25.4 38.2

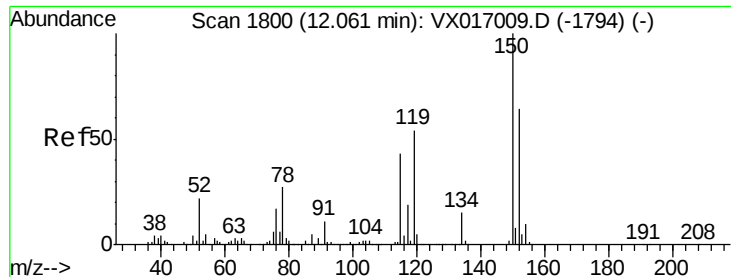


Abundance Ion 116.90 (116.60 to 117.60): VX017009.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017009.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017009.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017291.D

Acq: 09 Jul 2020 05:06

Instrument :

MSVOA_X

ClientSampleId :

PB130015ZHE#06

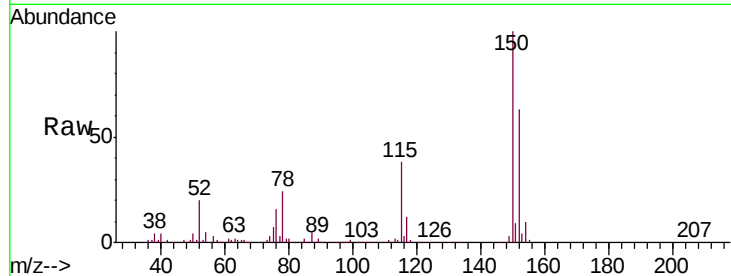
Tgt Ion:152 Resp: 236433

Ion Ratio Lower Upper

152 100

115 58.1 40.9 122.7

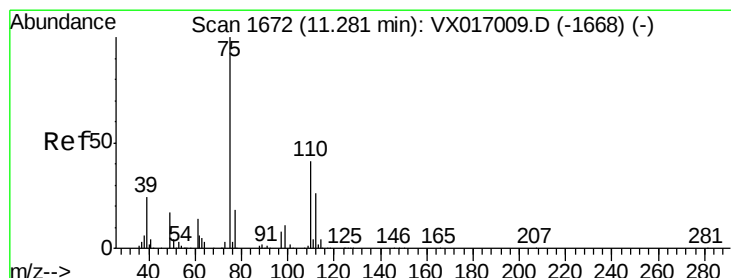
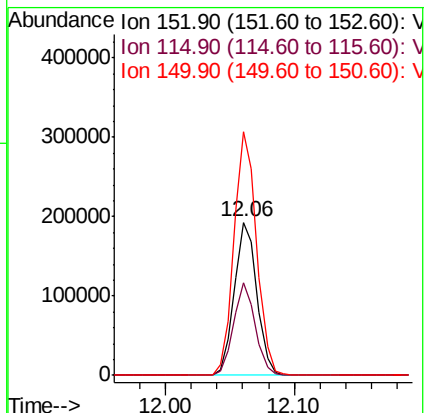
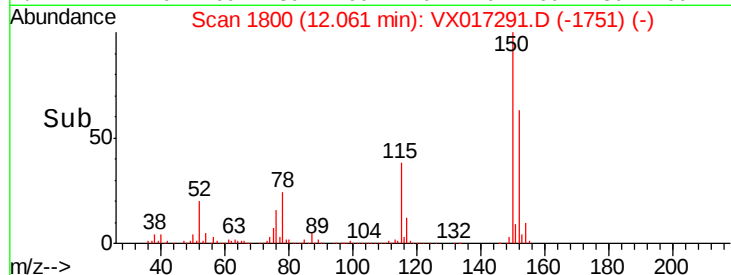
150 158.5 0.0 351.6



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: 24.025 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017291.D

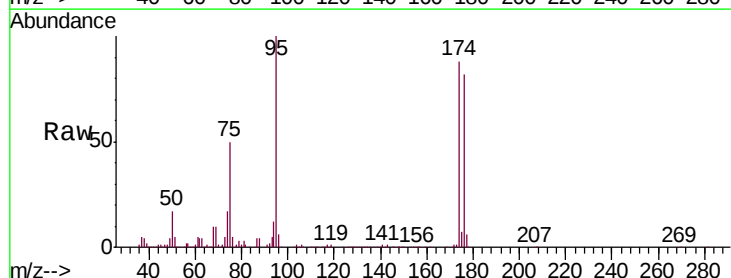
Acq: 09 Jul 2020 05:06

Tgt Ion: 75 Resp: 111699

Ion Ratio Lower Upper

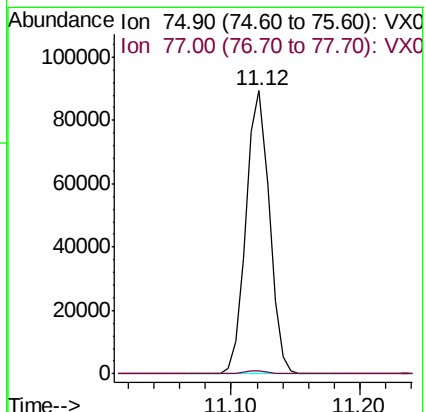
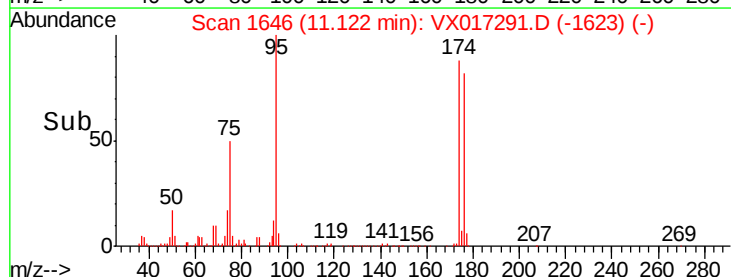
75 100

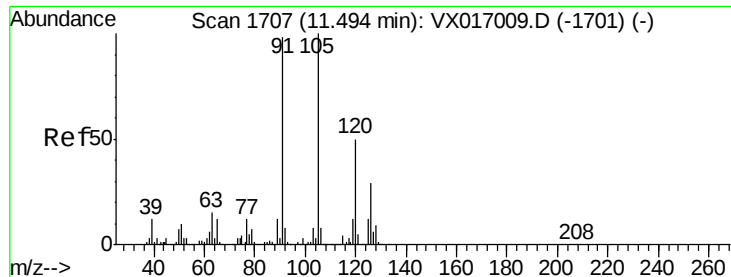
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

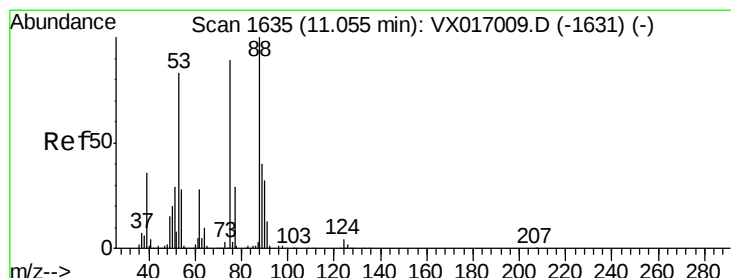
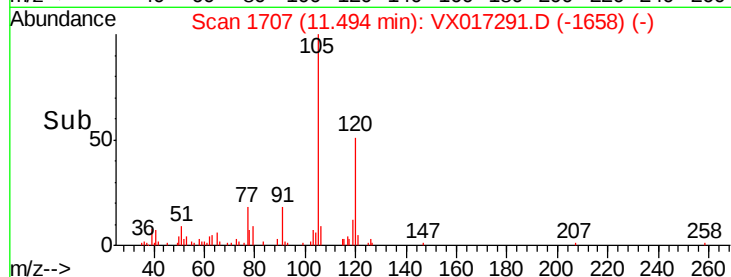
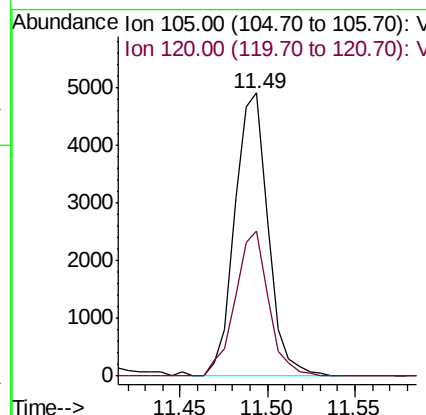
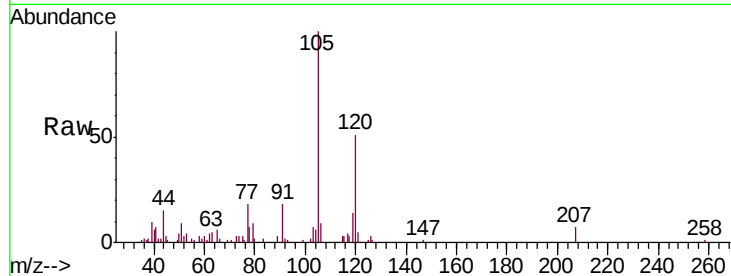




#80
 1,3,5-Trimethylbenzene
 Concen: 0.507 ug/l
 RT: 11.49 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX017291.D
 Acq: 09 Jul 2020 05:06

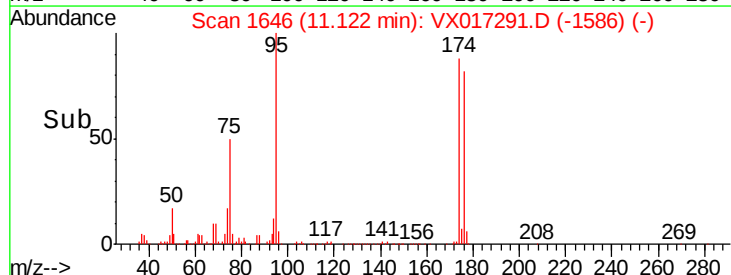
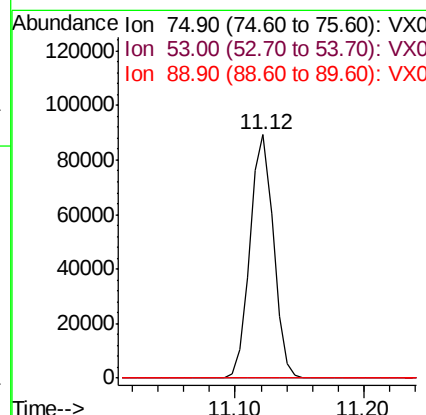
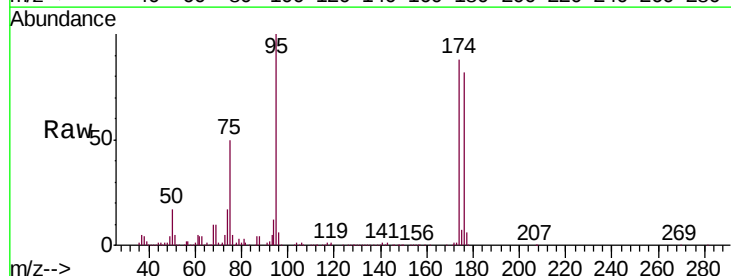
Instrument :
 MSVOA_X
 ClientSampleId :
 PB130015ZHE#06

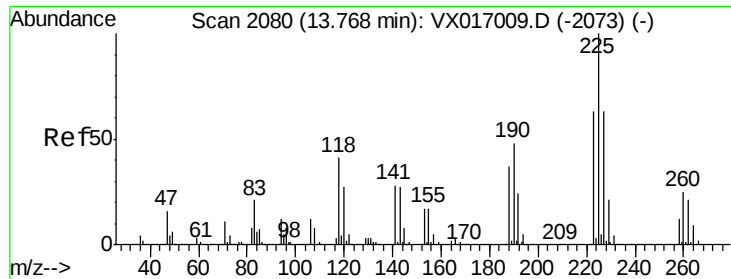
Tgt Ion: 105 Resp: 6515
 Ion Ratio Lower Upper
 105 100
 120 51.5 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.216 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX017291.D
 Acq: 09 Jul 2020 05:06

Tgt Ion: 75 Resp: 111699
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.4 108.6#
 89 0.0 37.0 55.4#





#94
 Hexachlorobutadiene
 Concen: 0.901 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX017291.D
 Acq: 09 Jul 2020 05:06

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130015ZHE#06

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	32.5	97.5#
227	0.0	33.1	99.2#

