

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071620\
 Data File : VX017395.D
 Acq On : 16 Jul 2020 16:51
 Operator : JC/SP
 Sample : PB130232ZHE#01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130232ZHE#01

Quant Time: Jul 17 01:00:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	264622	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	466827	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	529387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	272885	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	180422	54.32	ug/l	0.00
Spiked Amount			Recovery	=	108.64%	
35) Dibromofluoromethane	5.47	113	155675	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	
50) Toluene-d8	8.70	98	607080	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	
62) 4-Bromofluorobenzene	11.12	95	249705	55.42	ug/l	0.00
Spiked Amount			Recovery	=	110.84%	

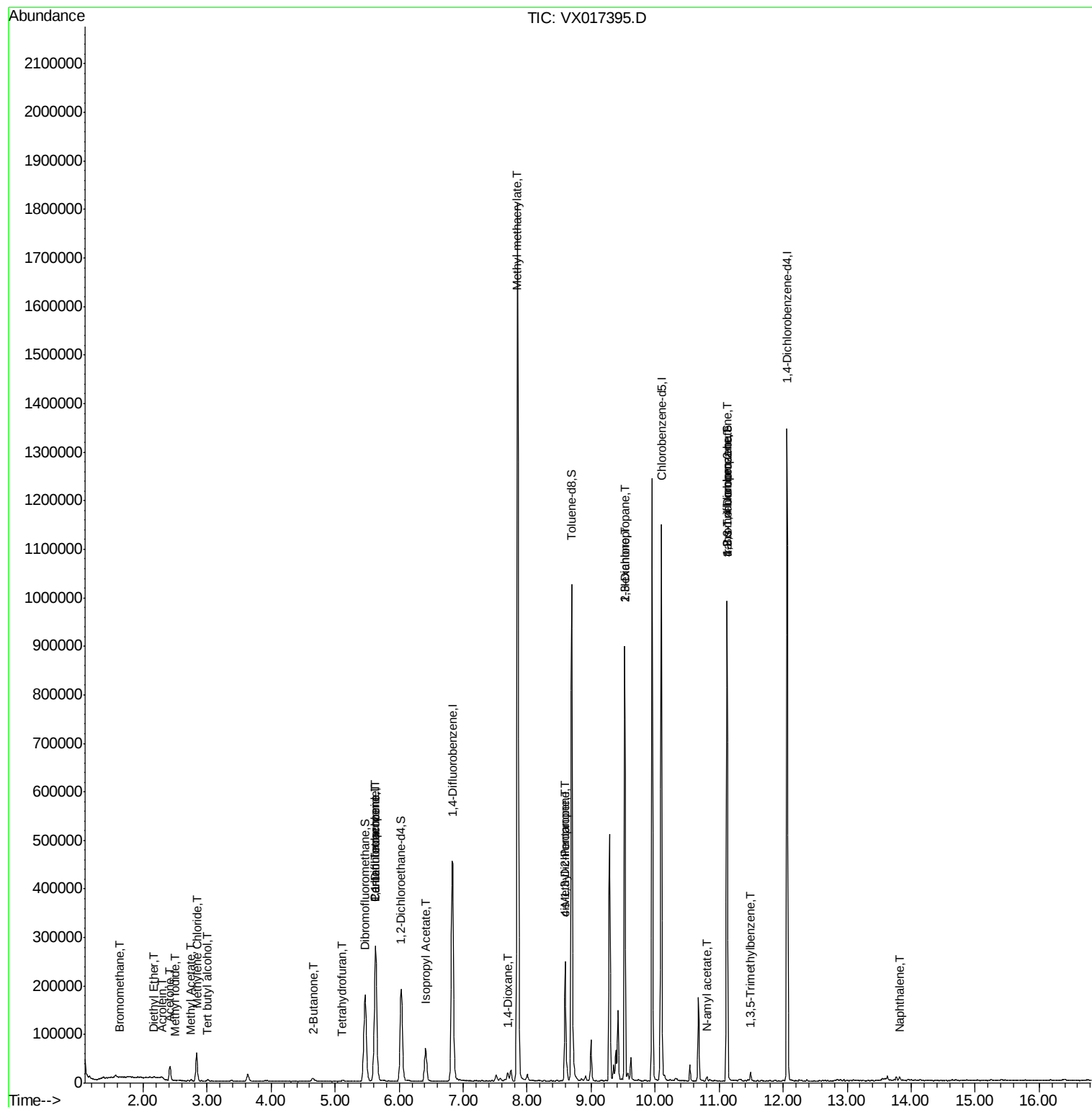
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	329	0.203	ug/l #	65
8) Diethyl Ether	2.17	74	878	0.590	ug/l	88
10) Methyl Iodide	2.49	142	91	2.401	ug/l #	61
11) Tert butyl alcohol	3.01	59	2486	4.443	ug/l	97
13) Acrolein	2.29	56	333	1.086	ug/l	92
16) Acetone	2.42	43	32673	27.575	ug/l	96
18) Methyl Acetate	2.75	43	3984	1.361	ug/l	92
20) Methylene Chloride	2.84	84	26978	9.332	ug/l	98
25) 2-Butanone	4.66	43	6186	3.287	ug/l	95
29) Tetrahydrofuran	5.10	42	2195	1.802	ug/l #	70
36) 1,1-Dichloropropene	5.63	75	19897	4.634	ug/l #	50
38) Carbon Tetrachloride	5.63	117	26906	5.352	ug/l #	20
43) Isopropyl Acetate	6.42	43	92359	13.016	ug/l	99
48) Methyl methacrylate	7.85	41	149514	43.909	ug/l #	41
49) 1,4-Dioxane	7.69	88	57	0.818	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	89110	20.596	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	39494	7.219	ug/l #	57
57) 1,3-Dichloropropane	9.52	76	7320	1.333	ug/l #	48
59) 2-Hexanone	9.52	43	99526	30.477	ug/l #	50
74) N-amyl acetate	10.81	43	4560	0.666	ug/l #	50
76) 1,2,3-Trichloropropane	11.12	75	122390	24.272	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	7715	0.531	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	122390	61.572	ug/l #	11
95) Naphthalene	13.82	128	3556	0.213	ug/l #	94

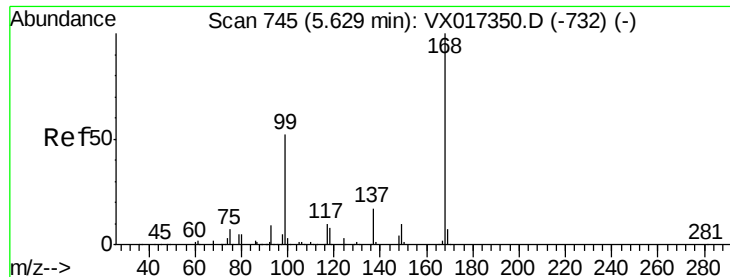
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Jul 17 01:00:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 14 02:59:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

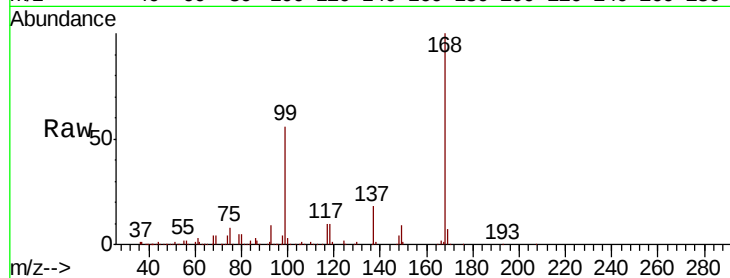
PB130232ZHE#01

Tot Ion:168 Resp: 264622

Ion Ratio Lower Upper

168 100

99 55.9 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

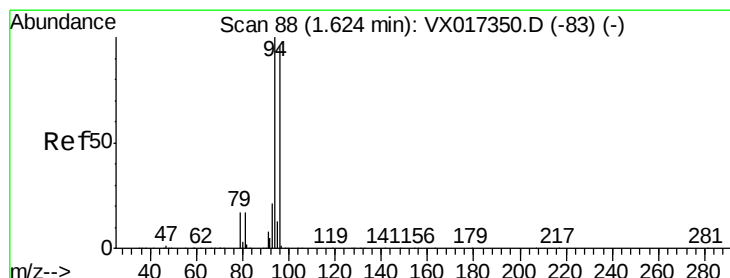
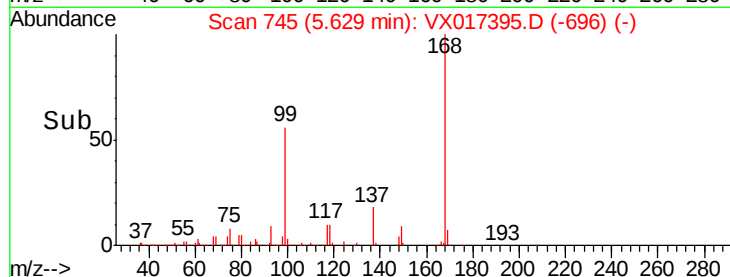
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX017395.D

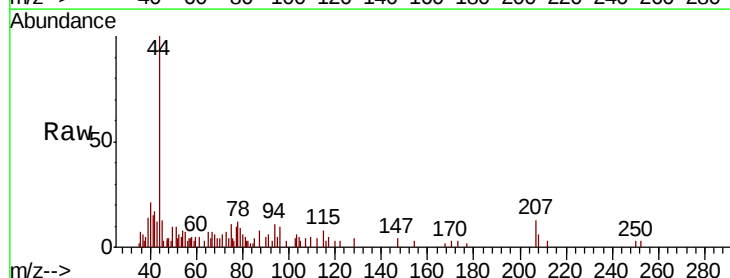
Acq: 16 Jul 2020 16:51

Tgt Ion: 94 Resp: 329

Ion Ratio Lower Upper

94 100

96 62.0 76.6 115.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

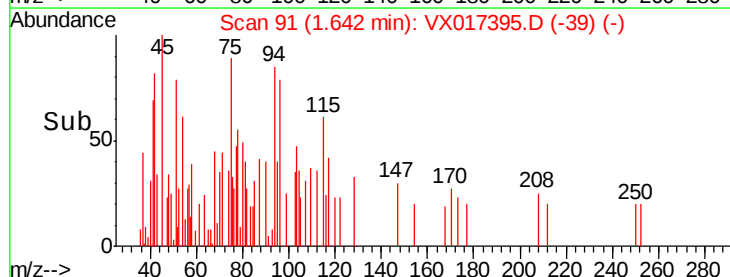
300

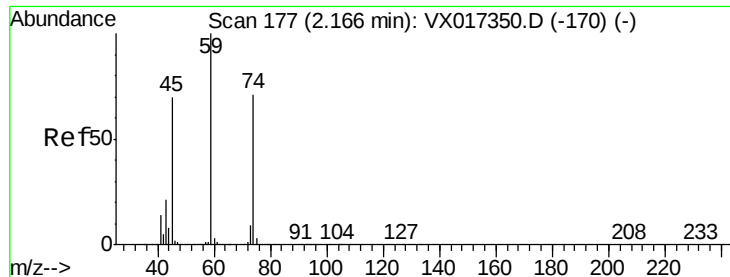
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.590 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

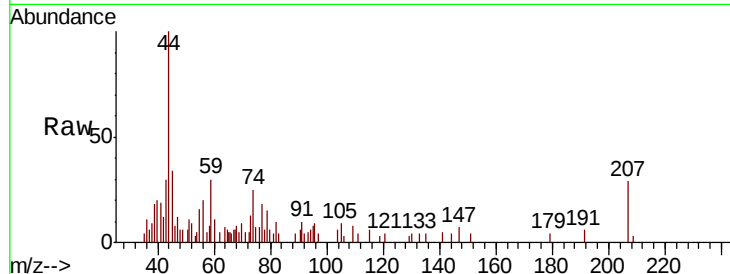
PB130232ZHE#01

Tot Ion: 74 Resp: 878

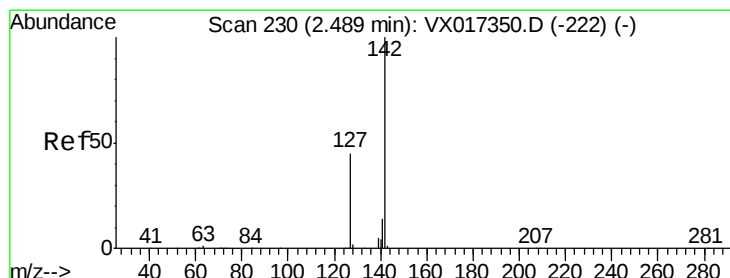
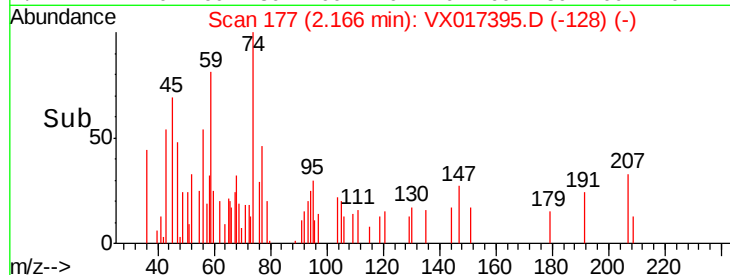
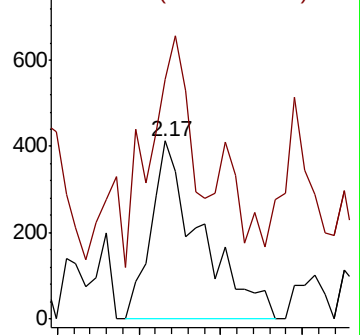
Ion Ratio Lower Upper

74 100

45 105.9 47.2 141.6



Abundance Ion 74.00 (73.70 to 74.70): VX0



#10

Methyl Iodide

Concen: 2.401 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

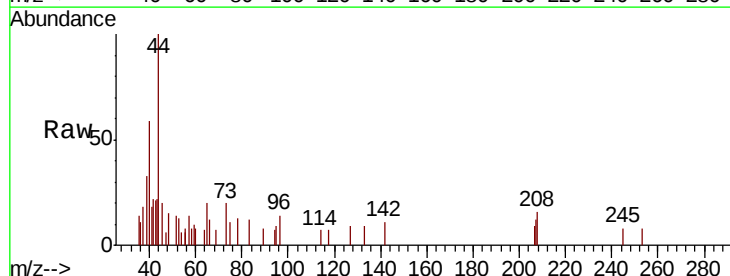
Tgt Ion: 142 Resp: 91

Ion Ratio Lower Upper

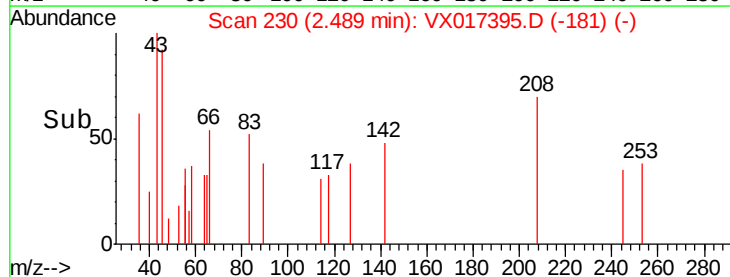
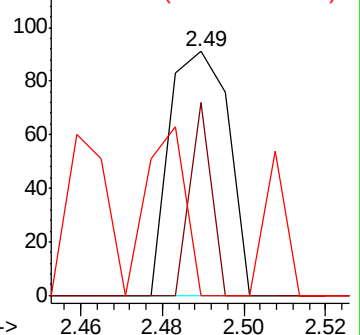
142 100

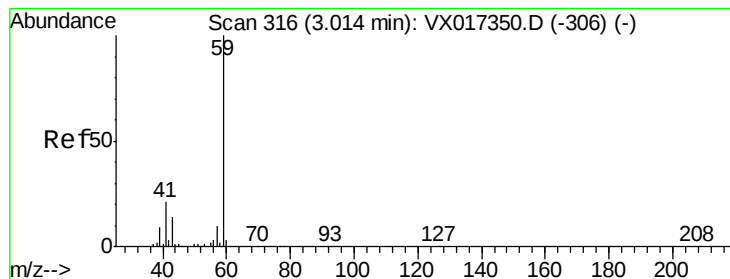
127 28.6 36.8 55.2#

141 46.2 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V



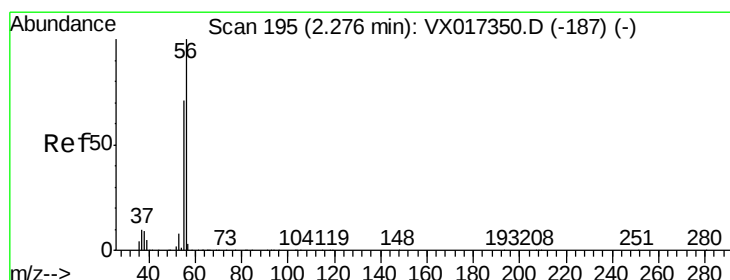
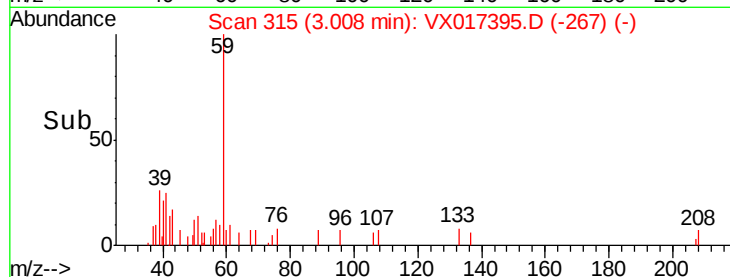
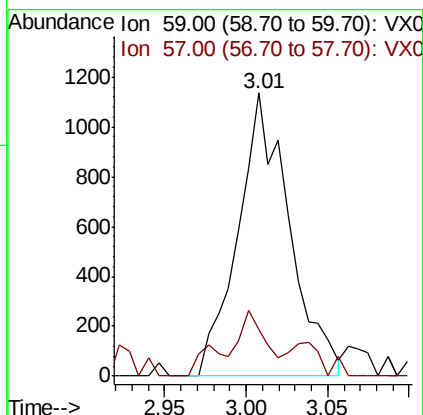
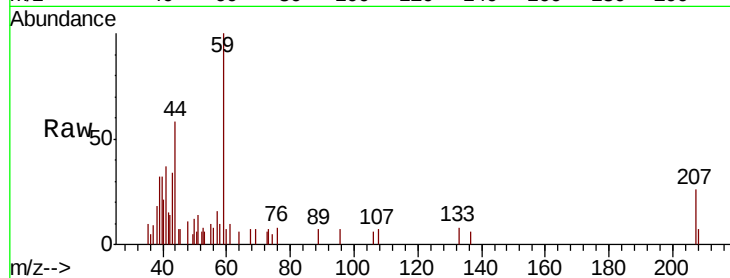


#11

Tert butyl alcohol
Concen: 4.443 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

Instrument :
MSVOA_X
ClientSampleId :
PB130232ZHE#01

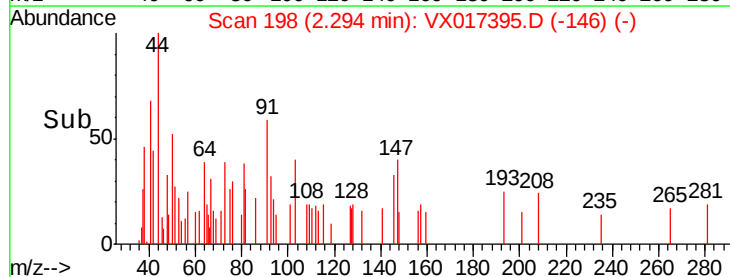
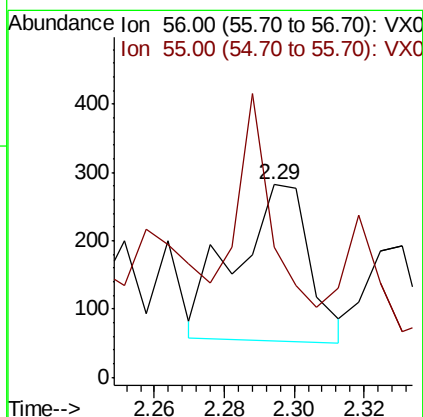
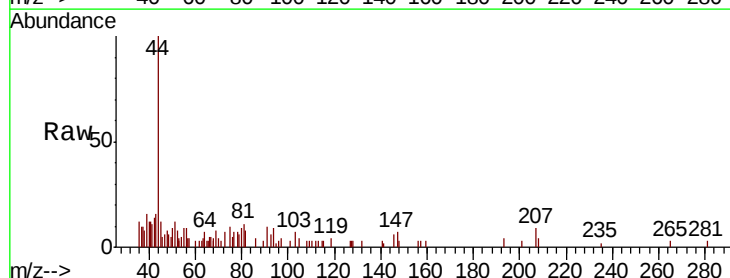
Tot Ion: 59 Resp: 2486
Ion Ratio Lower Upper
59 100
57 11.6 8.3 12.5

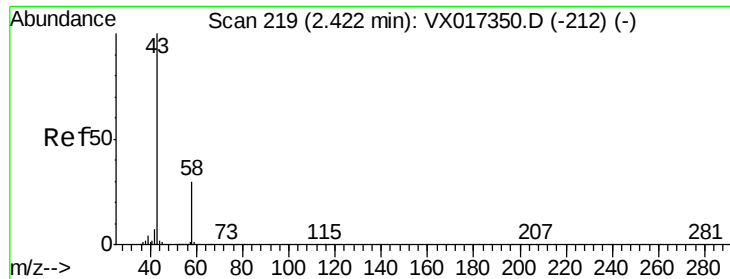


#13

Acrolein
Concen: 1.086 ug/l
RT: 2.29 min Scan# 198
Delta R.T. 0.02 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

Tgt Ion: 56 Resp: 333
Ion Ratio Lower Upper
56 100
55 77.8 57.1 85.7





#16

Acetone

Concen: 27.575 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

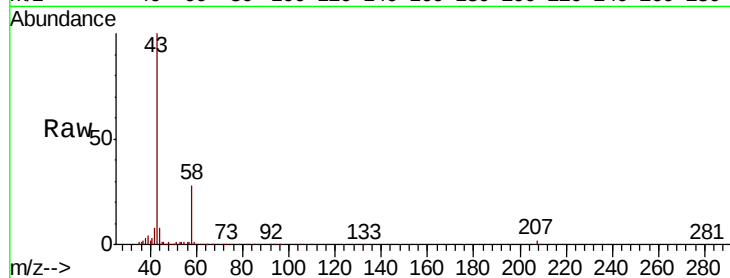
PB130232ZHE#01

Tot Ion: 43 Resp: 32673

Ion Ratio Lower Upper

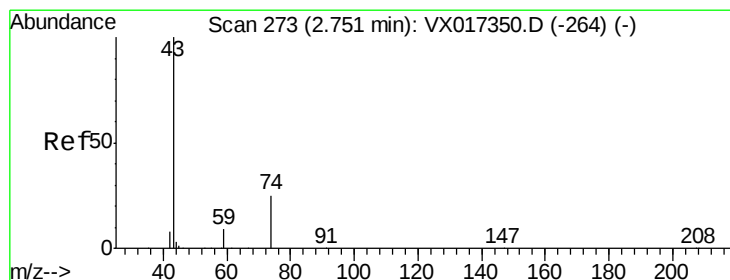
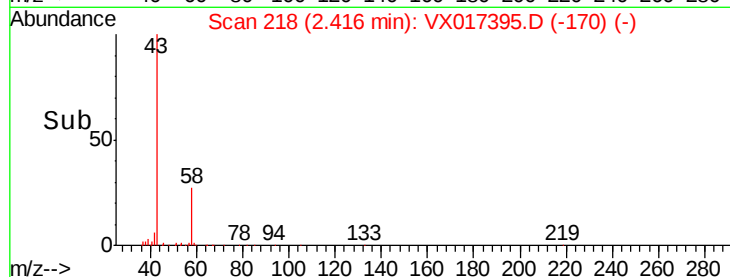
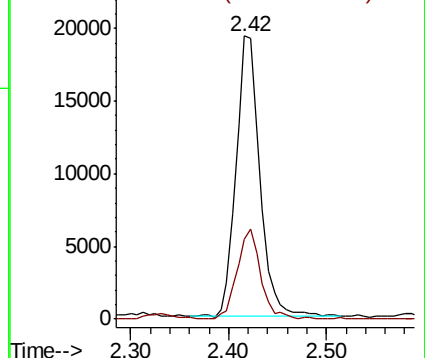
43 100

58 27.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.361 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX017395.D

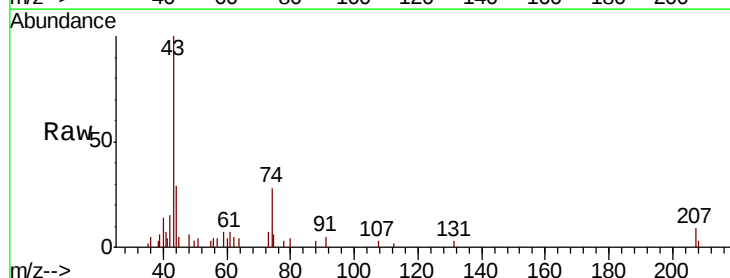
Acq: 16 Jul 2020 16:51

Tgt Ion: 43 Resp: 3984

Ion Ratio Lower Upper

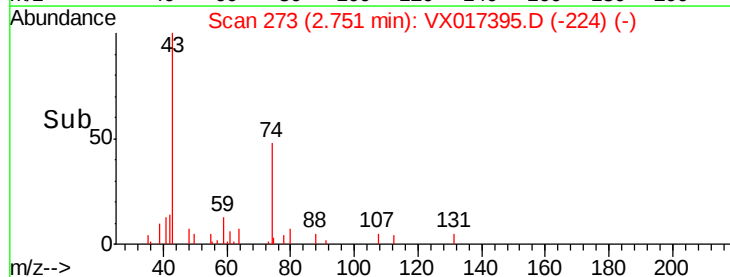
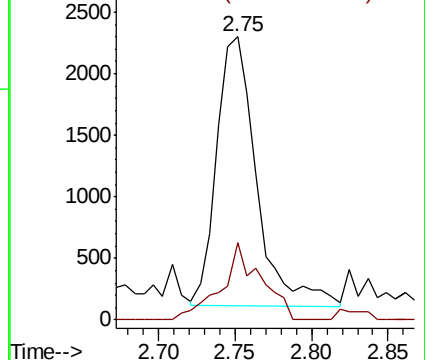
43 100

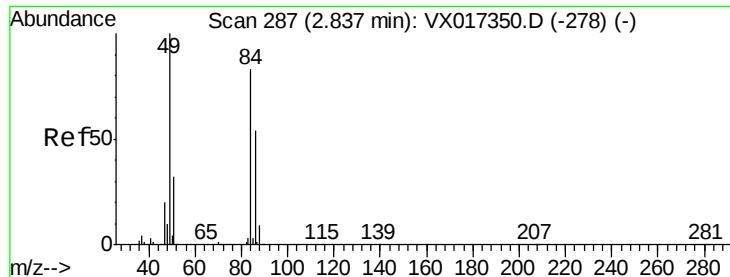
74 28.2 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

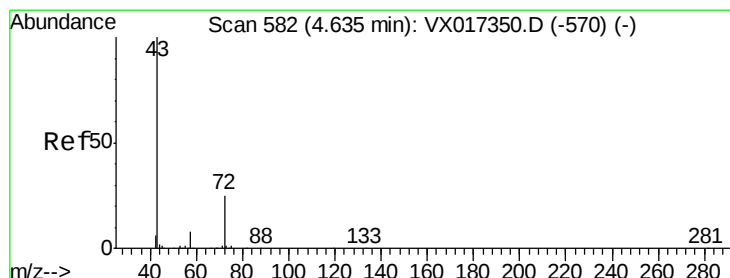
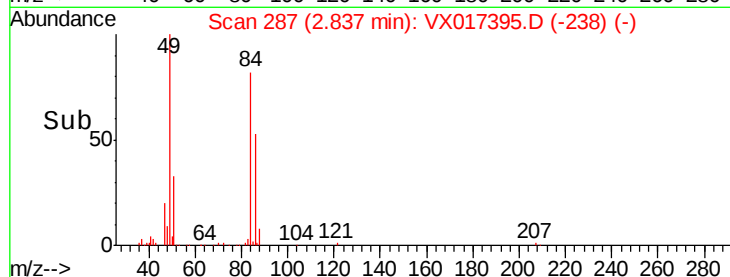
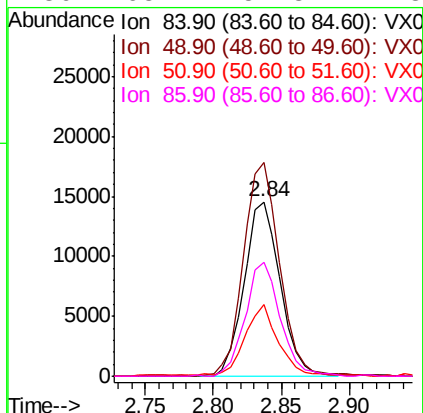
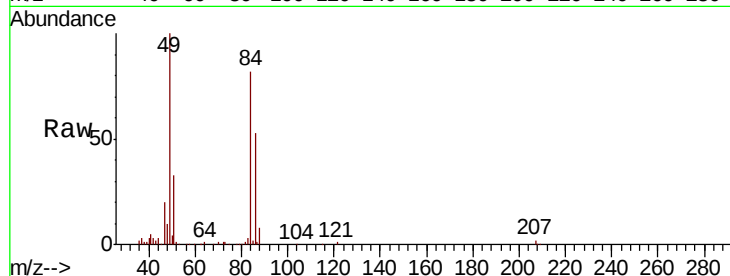




#20
Methvlene Chloride
Concen: 9.332 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

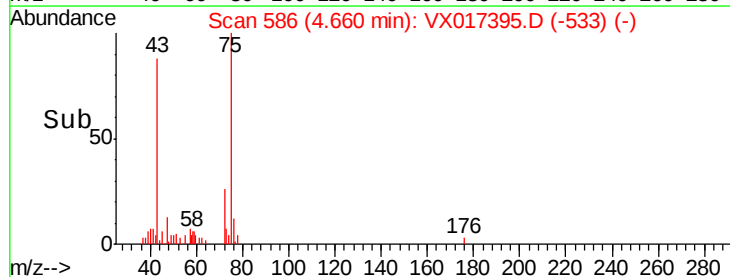
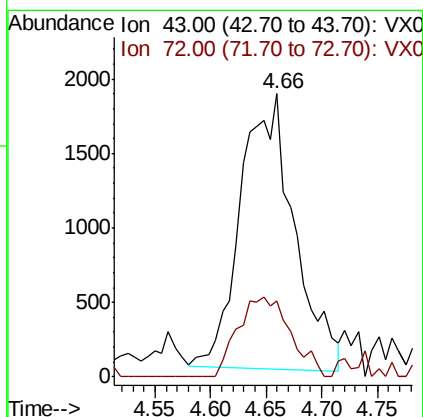
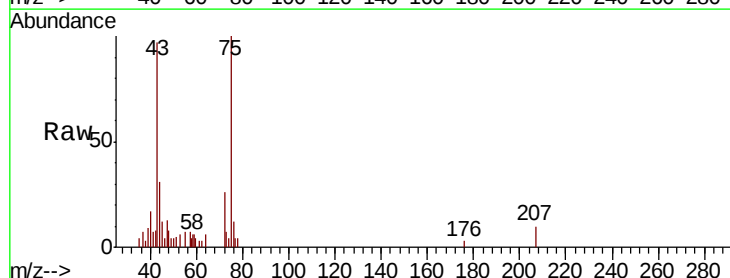
Instrument :
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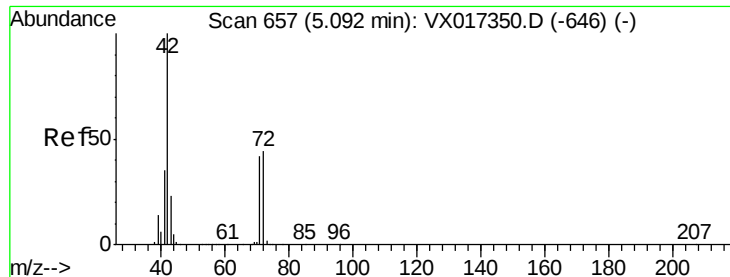
Tot Ion: 84 Resp: 26978
Ion Ratio Lower Upper
84 100
49 122.6 95.8 143.8
51 40.3 31.0 46.4
86 65.1 51.8 77.8



#25
2-Butanone
Concen: 3.287 ug/l
RT: 4.66 min Scan# 586
Delta R.T. 0.02 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

Tgt Ion: 43 Resp: 6186
Ion Ratio Lower Upper
43 100
72 28.0 20.4 30.6

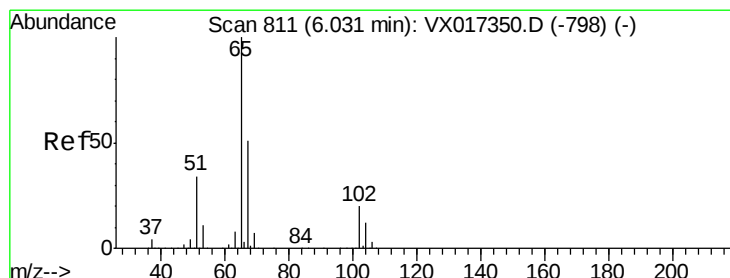
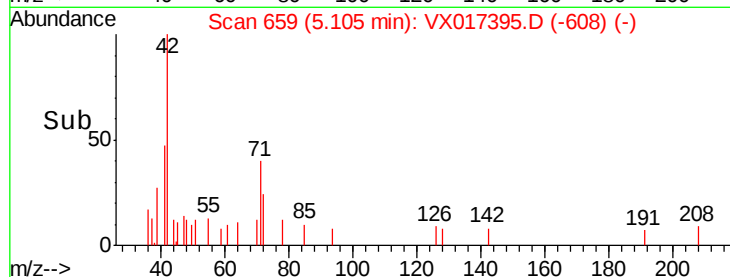
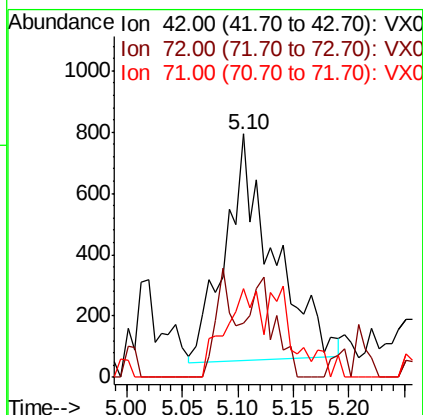
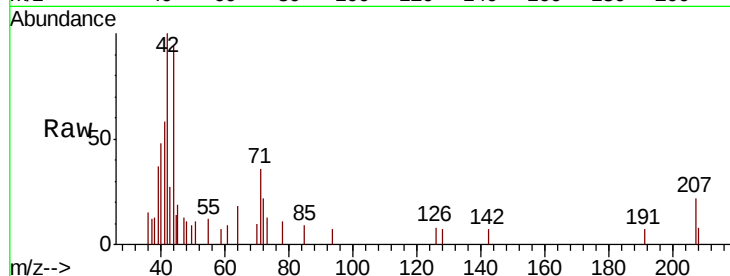




#29
Tetrahydrofuran
Concen: 1.802 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

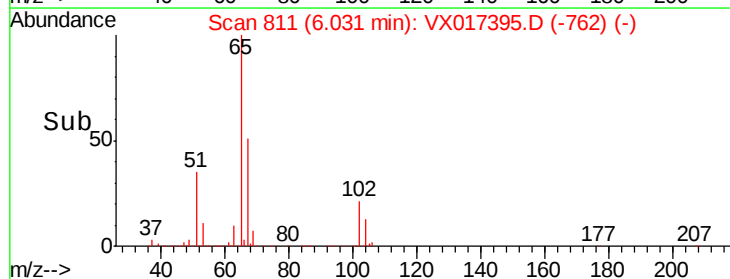
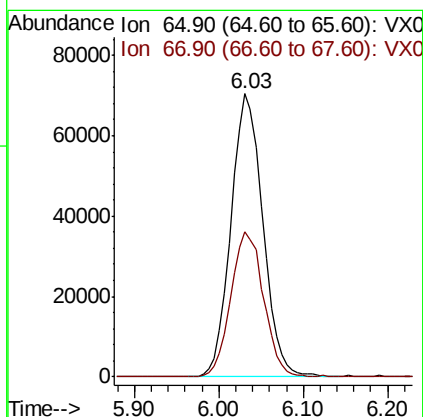
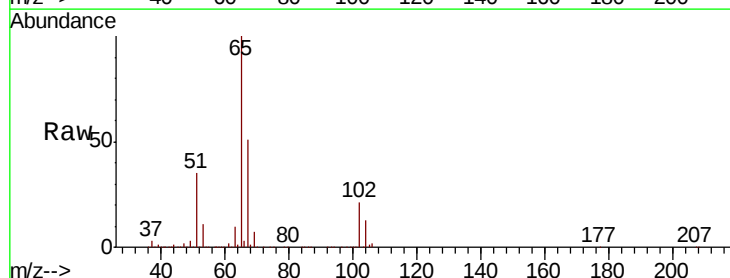
Instrument :
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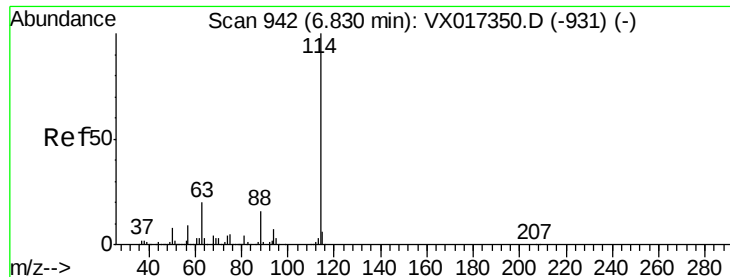
Tot Ion: 42 Resp: 2195
Ion Ratio Lower Upper
42 100
72 22.2 37.2 55.8#
71 28.7 34.4 51.6#



#33
1,2-Dichloroethane-d4
Concen: 54.324 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX017395.D
Acq: 16 Jul 2020 16:51

Tgt Ion: 65 Resp: 180422
Ion Ratio Lower Upper
65 100
67 52.5 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

PB130232ZHE#01

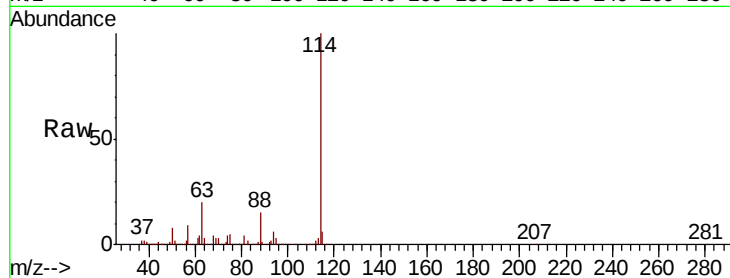
Tot Ion:114 Resp: 466827

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.0

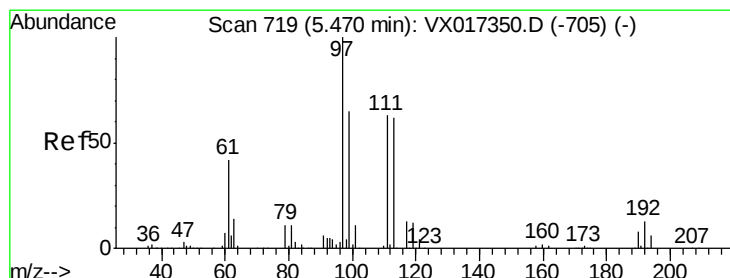
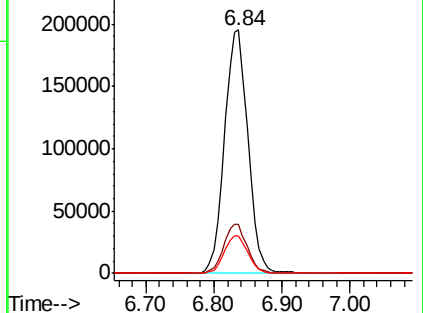
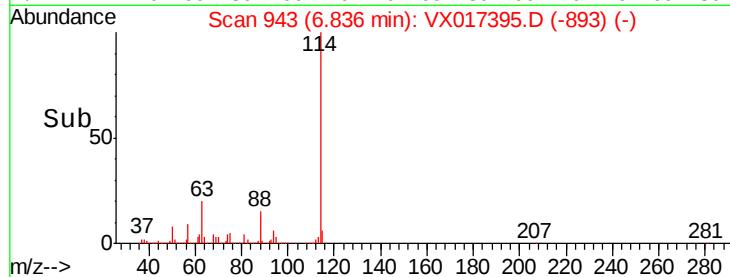
88 15.2 0.0 32.8



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: 49.505 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

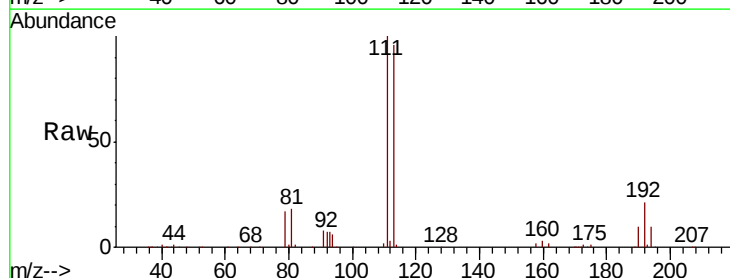
Tgt Ion:113 Resp: 155675

Ion Ratio Lower Upper

113 100

111 104.3 82.4 123.6

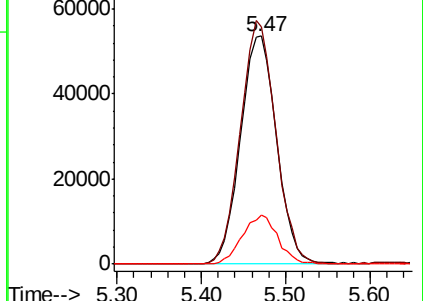
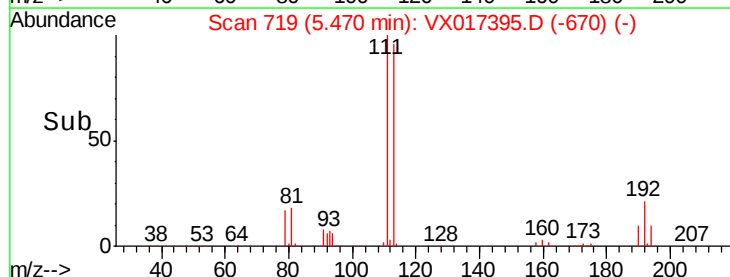
192 21.2 17.2 25.8

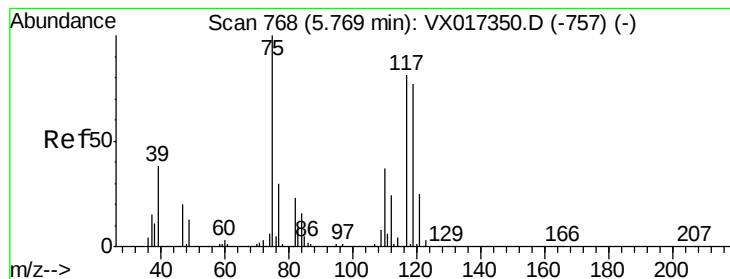


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.634 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

PB130232ZHE#01

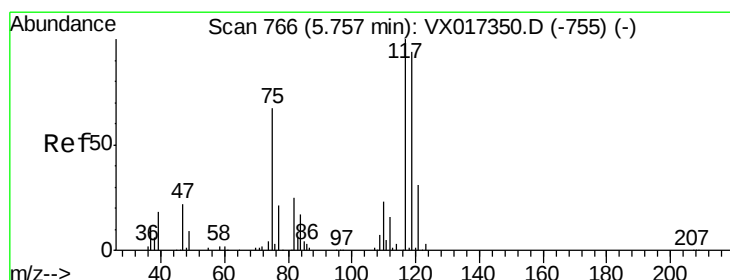
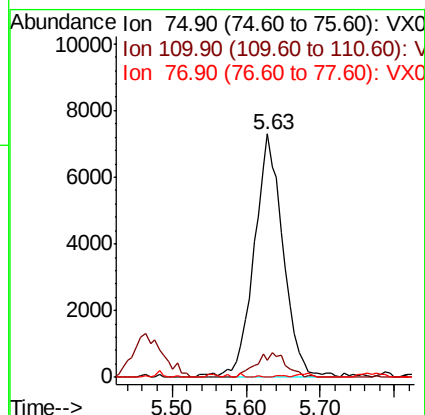
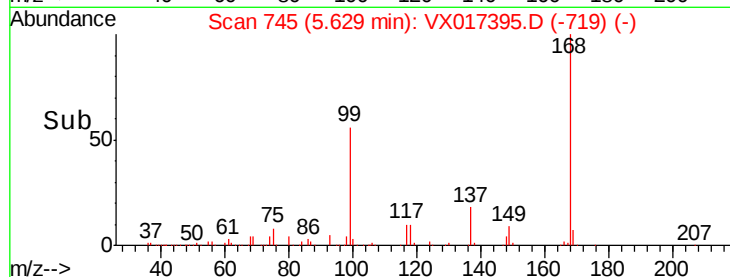
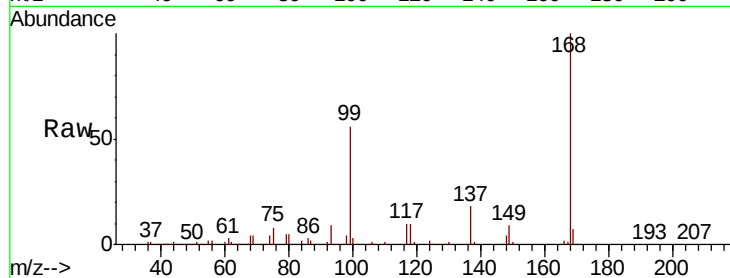
Tot Ion: 75 Resp: 19897

Ion Ratio Lower Upper

75 100

110 10.6 18.6 55.8#

77 0.3 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 5.352 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

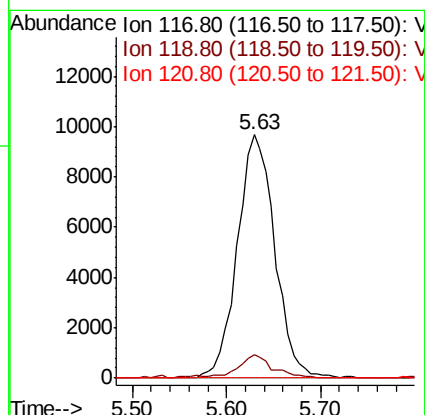
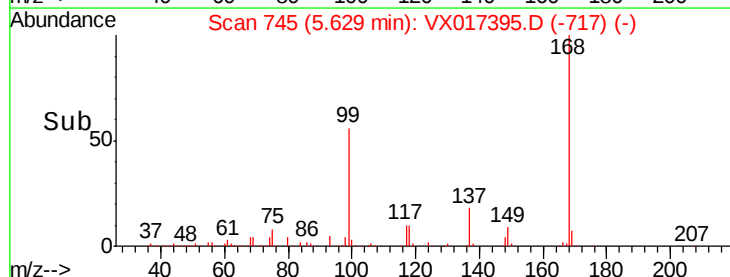
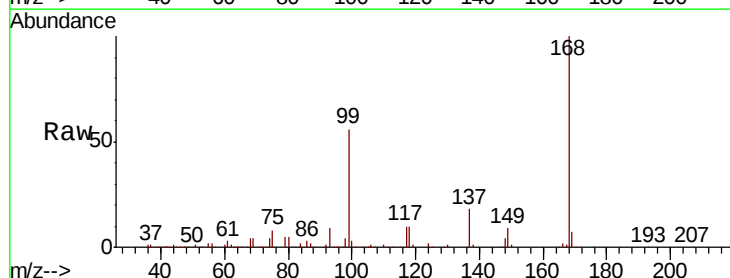
Tgt Ion: 117 Resp: 26906

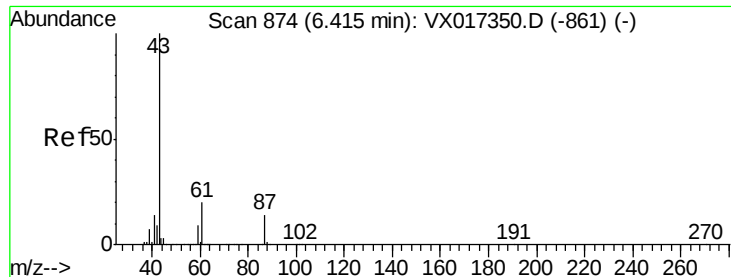
Ion Ratio Lower Upper

117 100

119 9.5 74.7 112.1#

121 0.0 24.5 36.7#



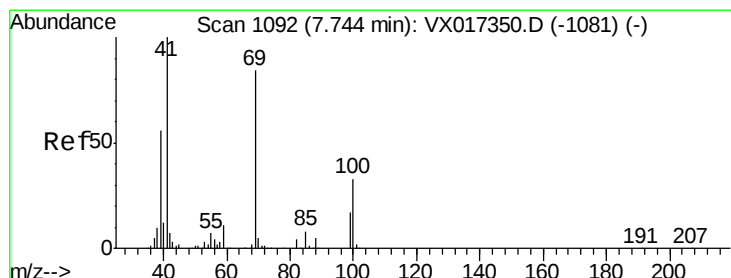
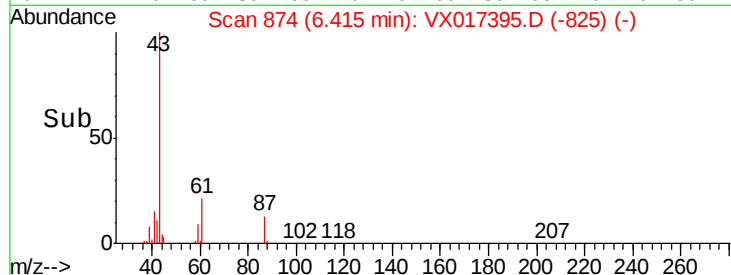
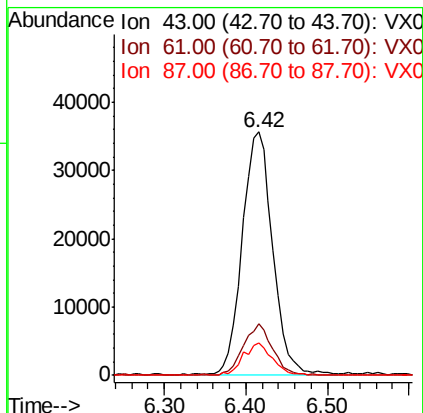
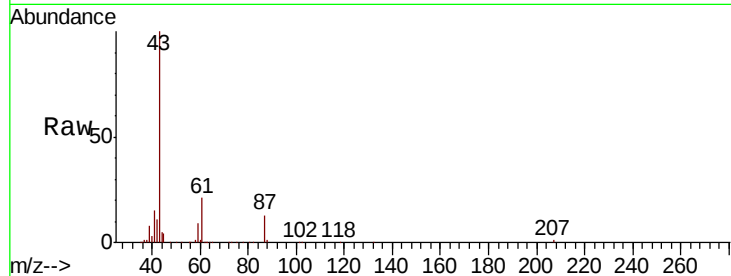


#43

Isopropyl Acetate
 Concen: 13.016 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

Instrument :
 MSVOA_X
 ClientSampleId :
 PB130232ZHE#01

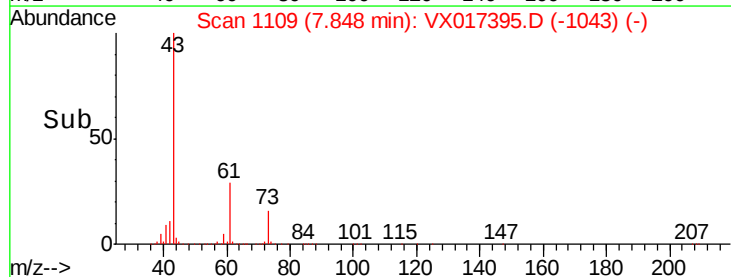
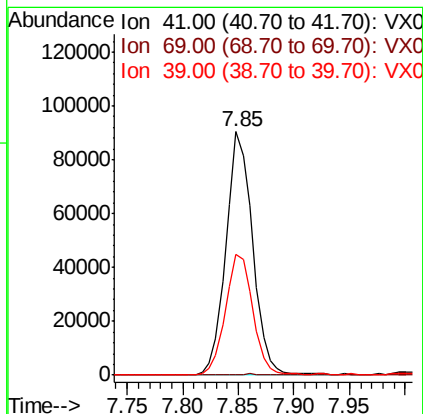
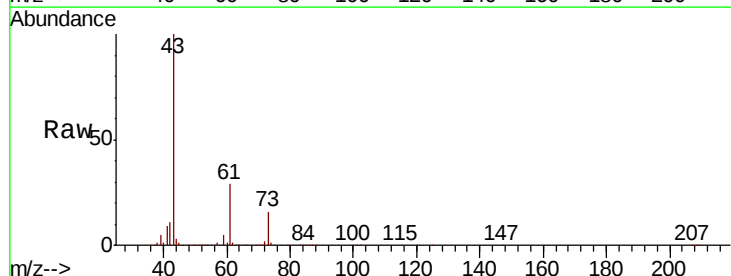
Tot Ion	43	Resp	92359
Ion Ratio	Lower	Upper	
43	100		
61	20.4	16.4	24.6
87	12.9	11.2	16.8

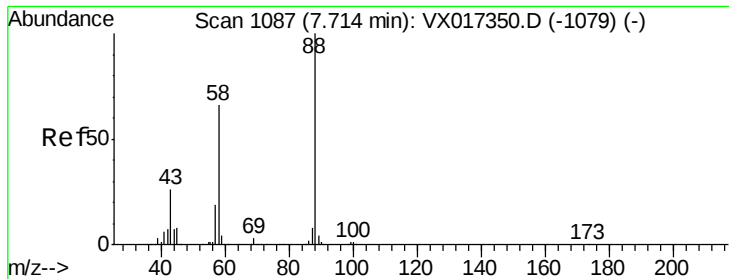


#48

Methyl methacrylate
 Concen: 43.909 ug/l
 RT: 7.85 min Scan# 1109
 Delta R.T. 0.10 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

Tgt Ion	41	Resp	149514
Ion Ratio	Lower	Upper	
41	100		
69	0.4	67.8	101.6#
39	50.9	45.1	67.7

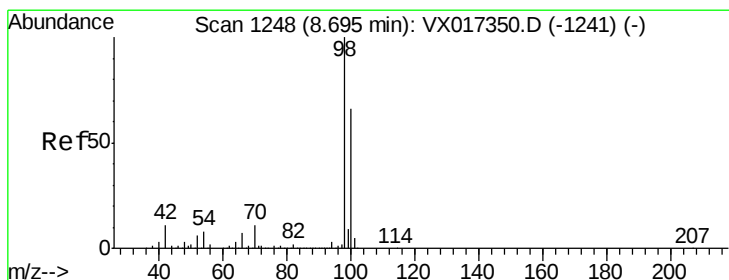
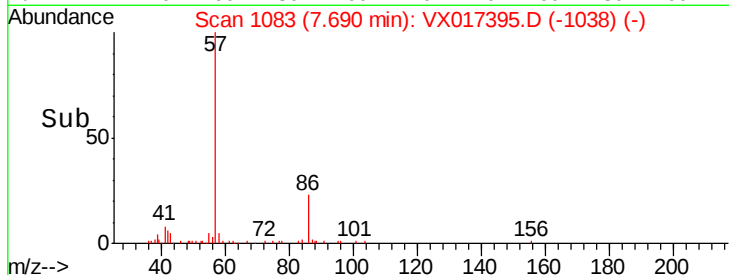
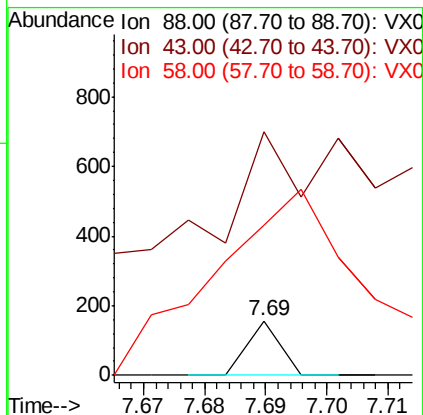
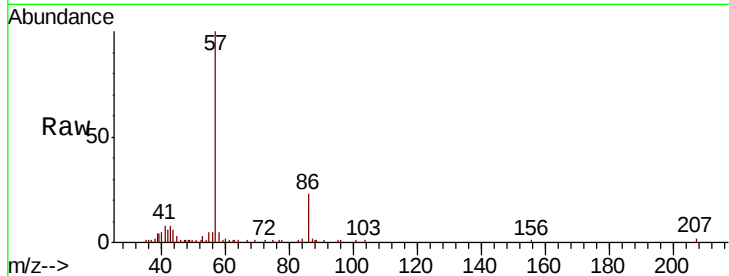




#49
 1,4-Dioxane
 Concen: 0.818 ug/l
 RT: 7.69 min Scan# 1083
 Delta R.T. -0.02 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

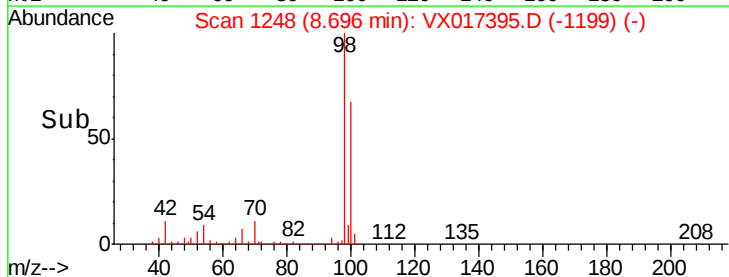
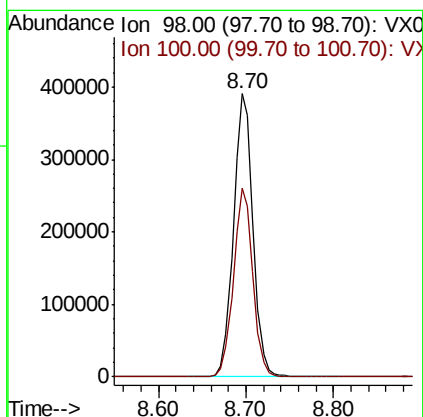
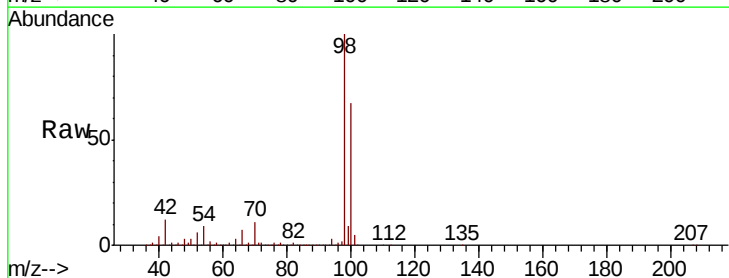
Instrument :
 MSVOA_X
 ClientSampleId :
 PB130232ZHE#01

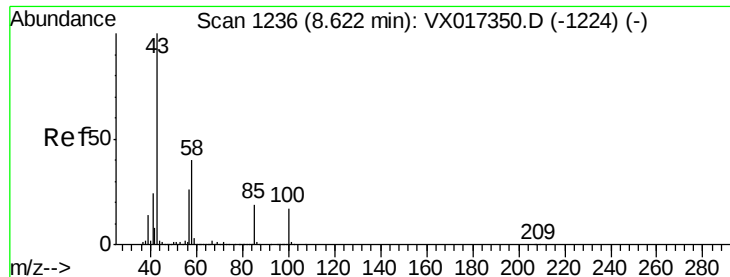
Tot Ion: 88 Resp: 57
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.6 38.4#
 58 1536.8 53.9 80.9#



#50
 Toluene-d8
 Concen: 53.520 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

Tgt Ion: 98 Resp: 607080
 Ion Ratio Lower Upper
 98 100
 100 66.1 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 20.596 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

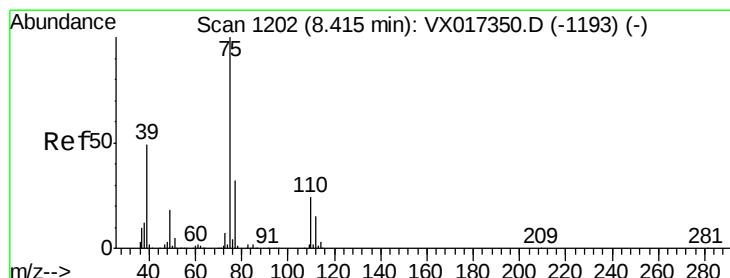
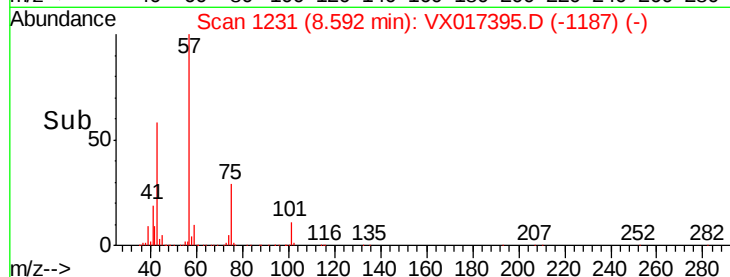
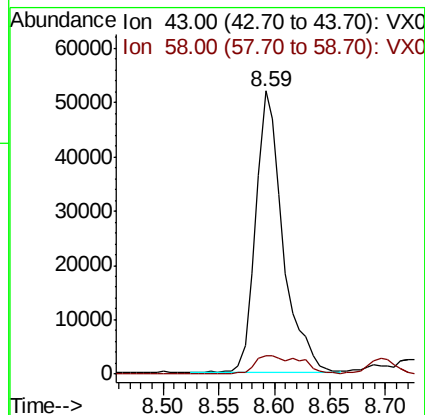
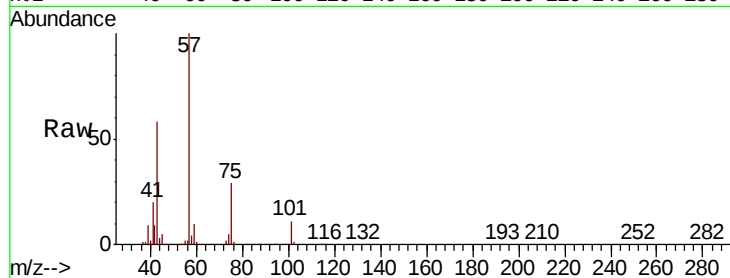
PB130232ZHE#01

Tot Ion: 43 Resp: 89110

Ion Ratio Lower Upper

43 100

58 7.0 32.2 48.2#



#54

cis-1,3-Dichloropropene

Concen: 7.219 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

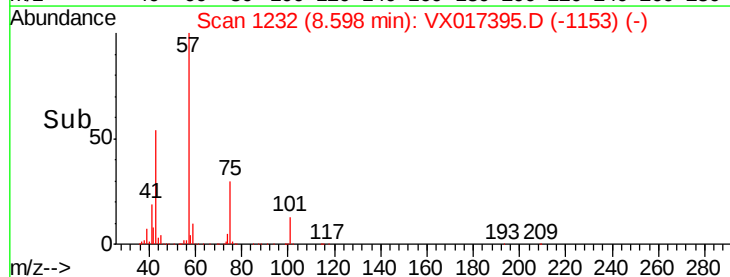
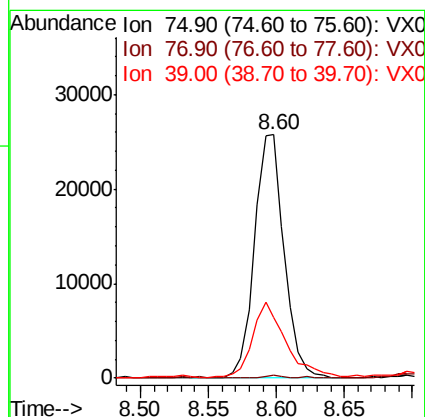
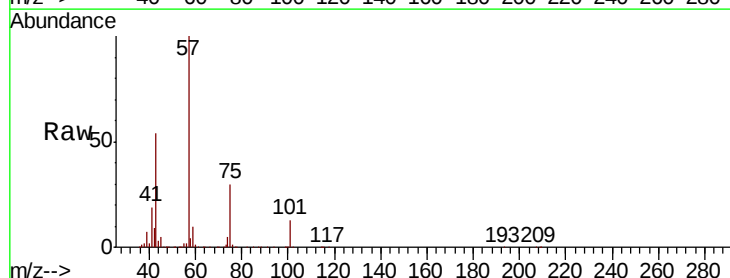
Tgt Ion: 75 Resp: 39494

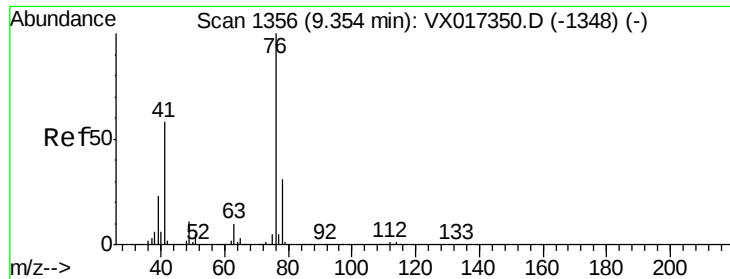
Ion Ratio Lower Upper

75 100

77 0.8 25.3 37.9#

39 24.6 38.9 58.3#





#57

1,3-Dichloropropane

Concen: 1.333 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

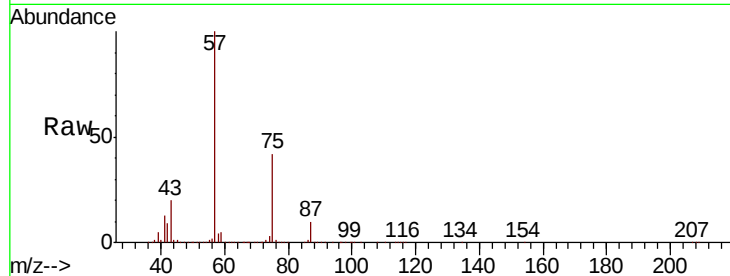
PB130232ZHE#01

Tot Ion: 76 Resp: 7320

Ion Ratio Lower Upper

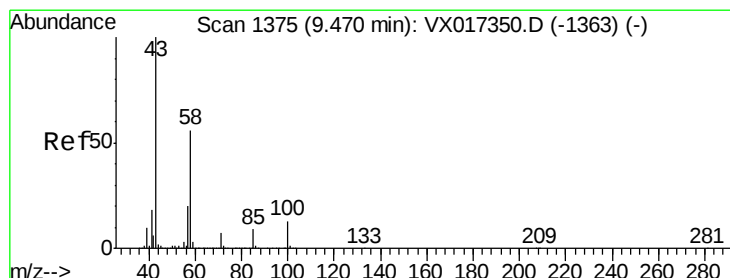
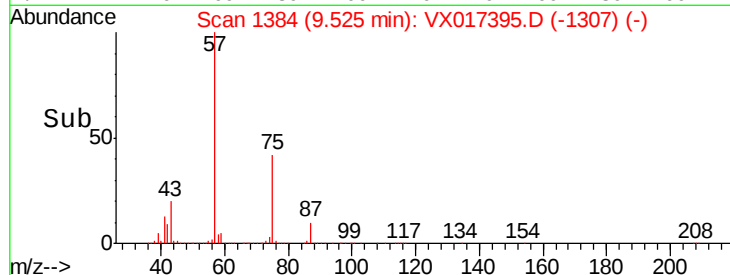
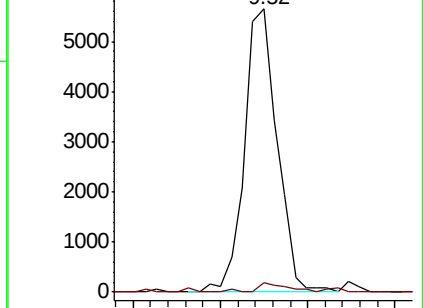
76 100

78 3.1 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 30.477 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX017395.D

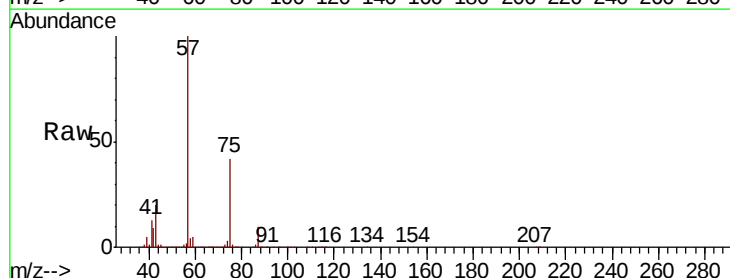
Acq: 16 Jul 2020 16:51

Tgt Ion: 43 Resp: 99526

Ion Ratio Lower Upper

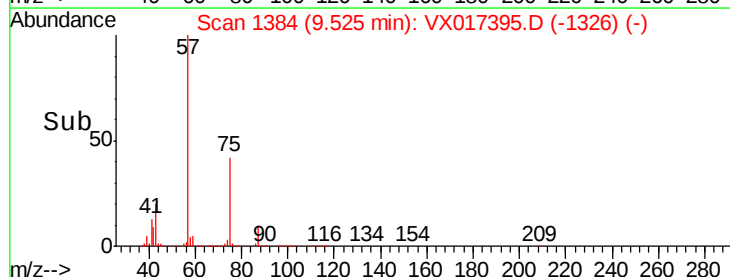
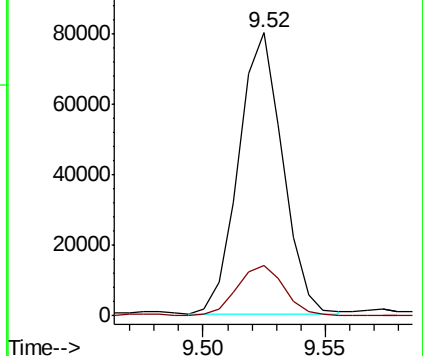
43 100

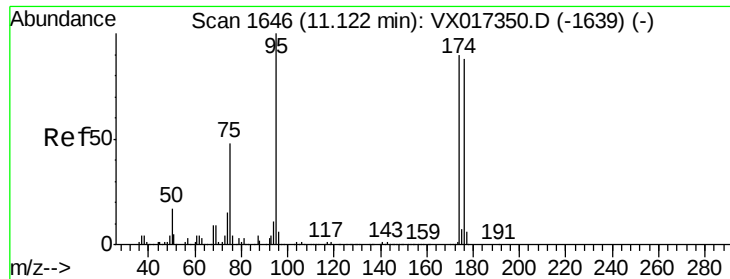
58 19.5 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 55.420 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

PB130232ZHE#01

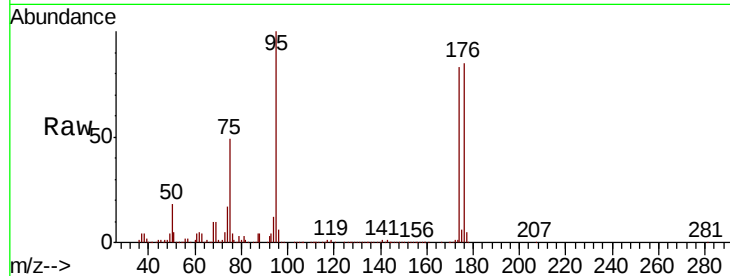
Tot Ion: 95 Resp: 249705

Ion Ratio Lower Upper

95 100

174 83.3 0.0 175.8

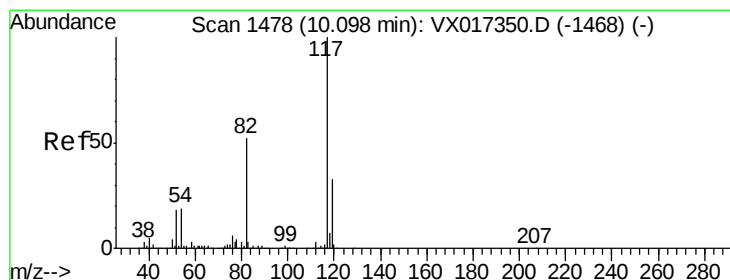
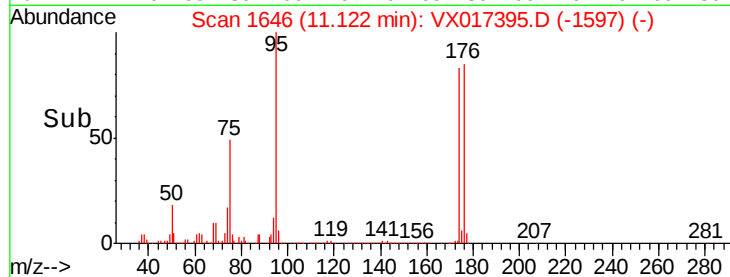
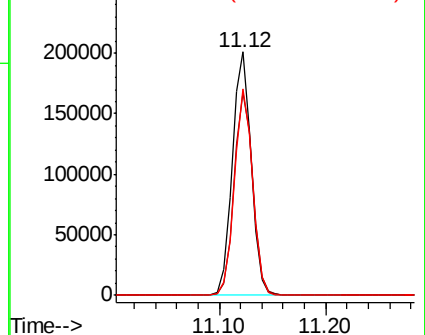
176 82.0 0.0 164.6



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: VX017395.D

Acq: 16 Jul 2020 16:51

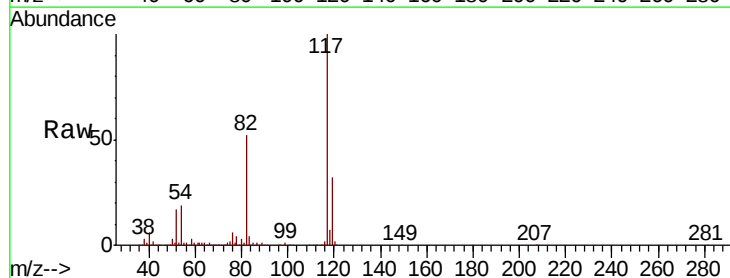
Tgt Ion: 117 Resp: 529387

Ion Ratio Lower Upper

117 100

82 52.3 42.0 63.0

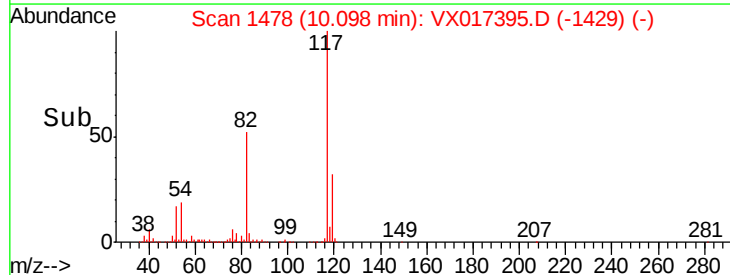
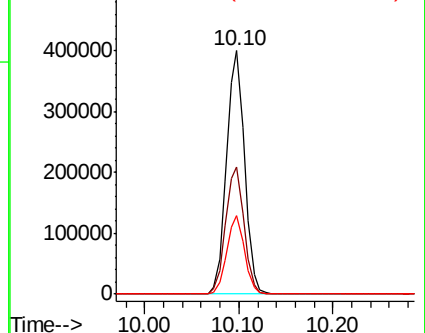
119 32.1 26.3 39.5

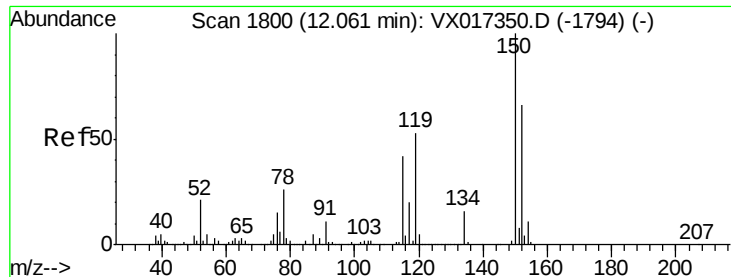


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

PB130232ZHE#01

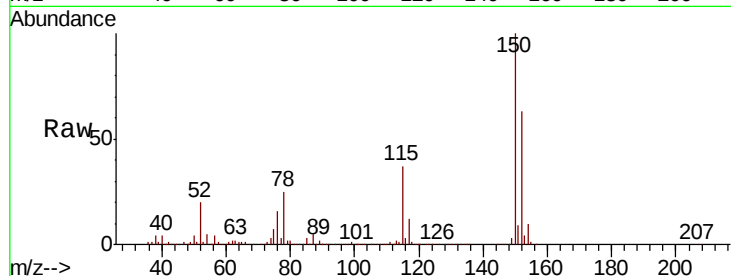
Tot Ion:152 Resp: 272885

Ion Ratio Lower Upper

152 100

115 58.2 39.9 119.7

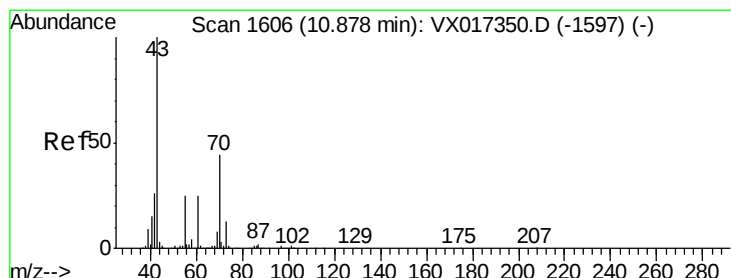
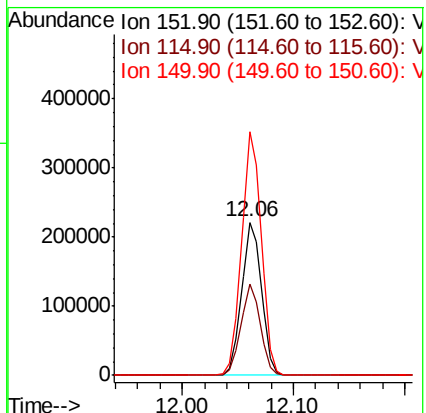
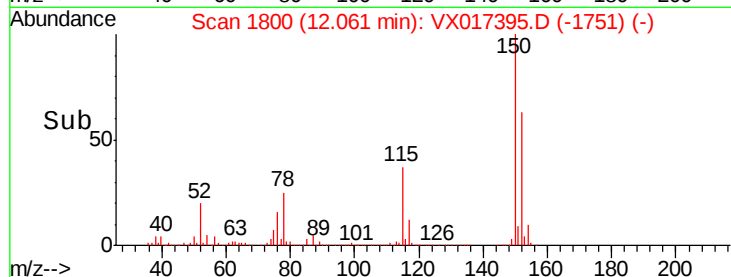
150 158.6 0.0 343.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.666 ug/l

RT: 10.81 min Scan# 1595

Delta R.T. -0.07 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Tgt Ion: 43 Resp: 4560

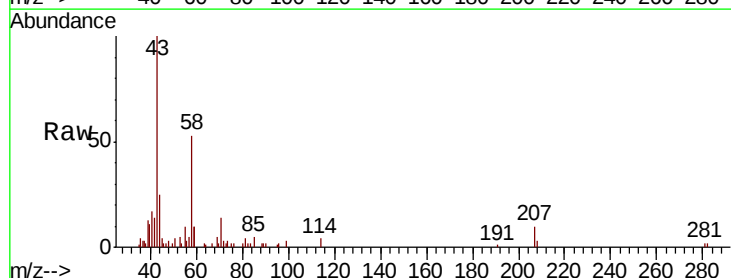
Ion Ratio Lower Upper

43 100

70 0.0 35.7 53.5#

55 15.9 20.3 30.5#

61 0.0 20.0 30.0#

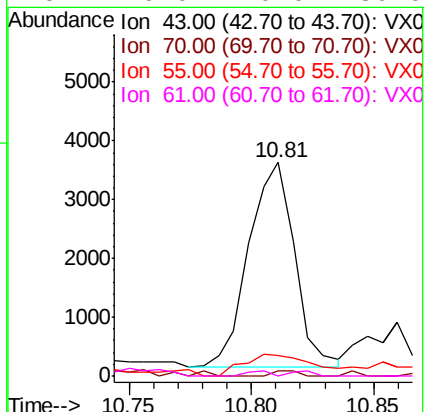
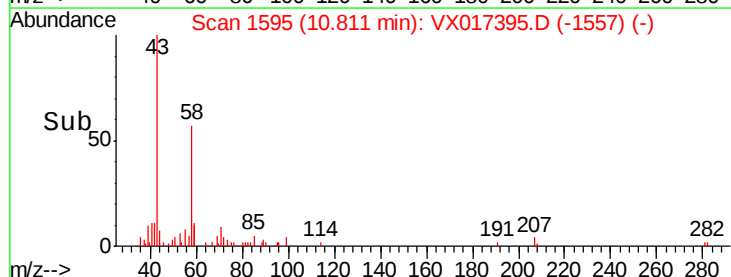


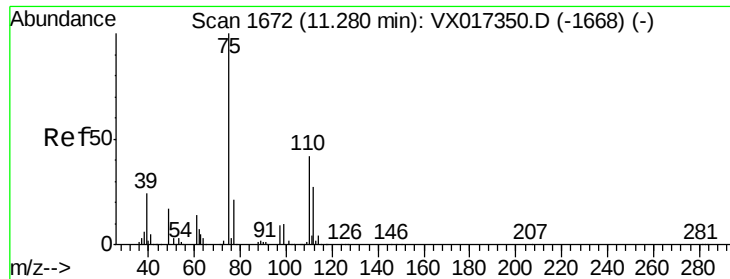
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

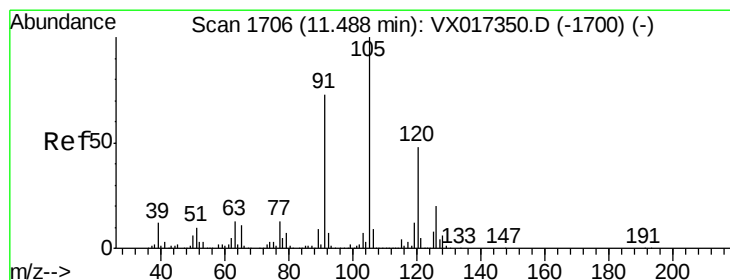
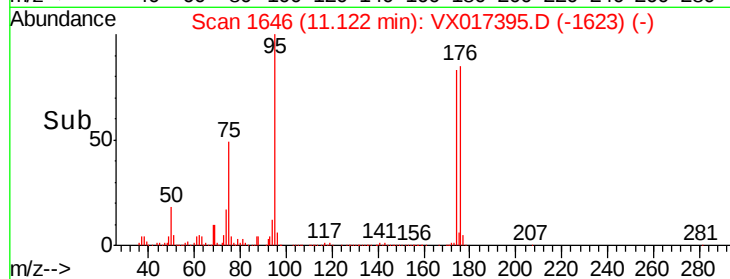
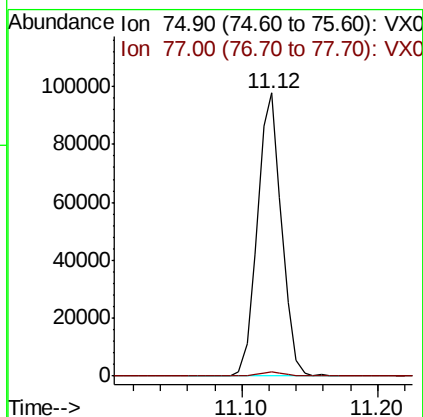
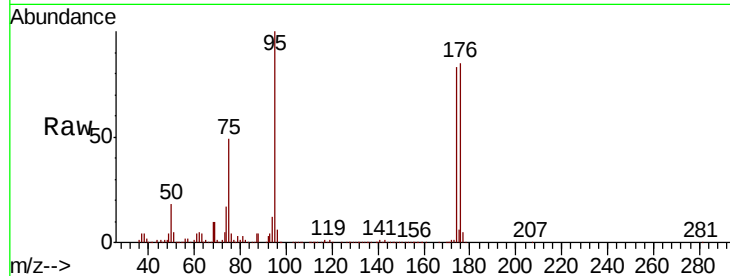




#76
 1,2,3-Trichloropropane
 Concen: 24.272 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

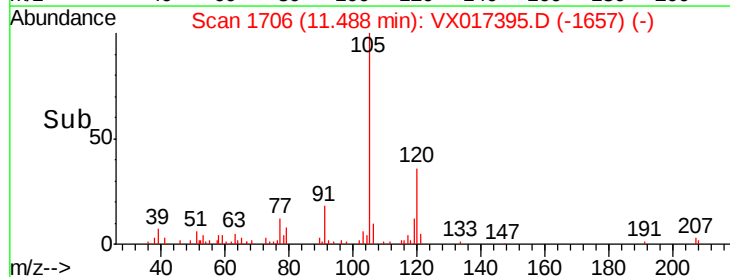
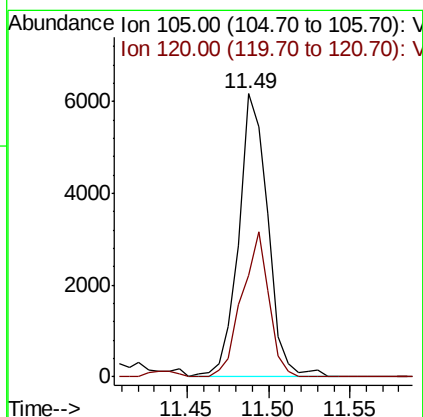
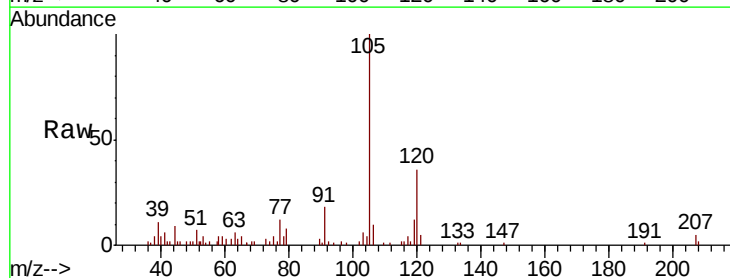
Instrument :
 MSVOA_X
 ClientSampleId :
 PB130232ZHE#01

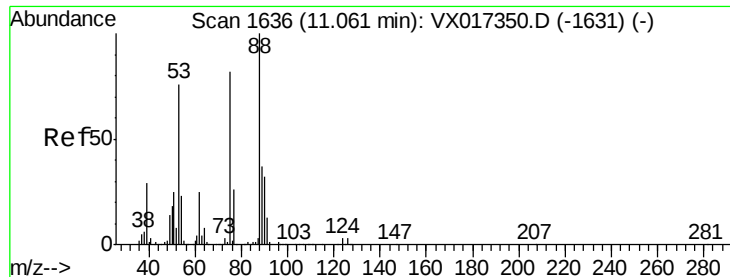
Tot Ion: 75 Resp: 122390
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.3 60.9#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.531 ug/l
 RT: 11.49 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VX017395.D
 Acq: 16 Jul 2020 16:51

Tgt Ion: 105 Resp: 7715
 Ion Ratio Lower Upper
 105 100
 120 47.3 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 61.572 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

Instrument :

MSVOA_X

ClientSampleId :

PB130232ZHE#01

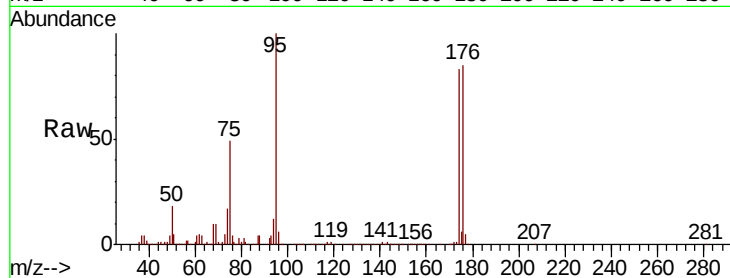
Tot Ion: 75 Resp: 122390

Ion Ratio Lower Upper

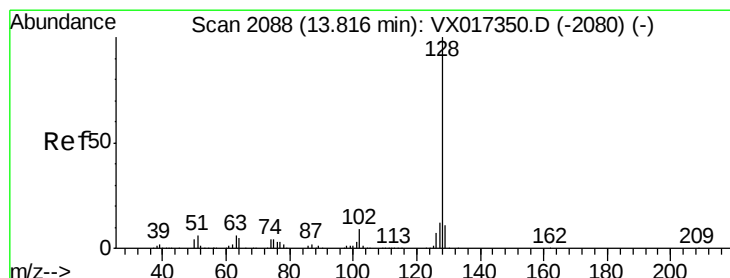
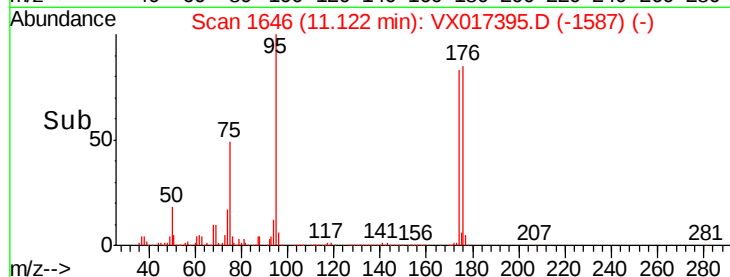
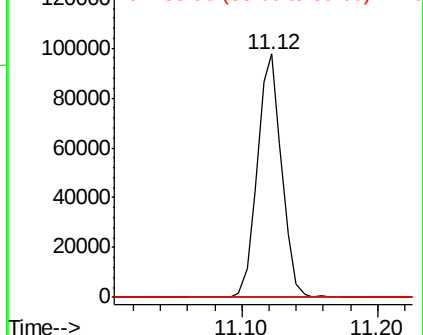
75 100

53 0.4 76.5 114.7#

89 0.1 38.1 57.1#



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



#95

Naphthalene

Concen: 0.213 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017395.D

Acq: 16 Jul 2020 16:51

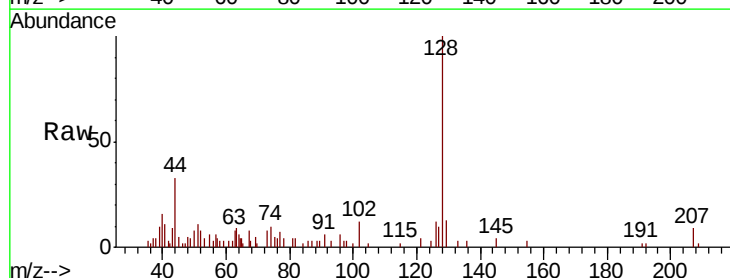
Tgt Ion: 128 Resp: 3556

Ion Ratio Lower Upper

128 100

127 13.8 10.2 15.4

129 15.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

