

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042120\
 Data File : VX015807.D
 Acq On : 21 Apr 2020 20:03
 Operator : JC/SP
 Sample : L2344-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2

Quant Time: Apr 22 04:22:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1011790	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1568204	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1517454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	859020	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	560383	39.27	ug/l	0.00
Spiked Amount			Recovery	=	78.54%	
35) Dibromofluoromethane	5.47	113	446141	44.51	ug/l	0.00
Spiked Amount			Recovery	=	89.02%	
50) Toluene-d8	8.70	98	1893931	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
62) 4-Bromofluorobenzene	11.12	95	794803	52.99	ug/l	0.00
Spiked Amount			Recovery	=	105.98%	

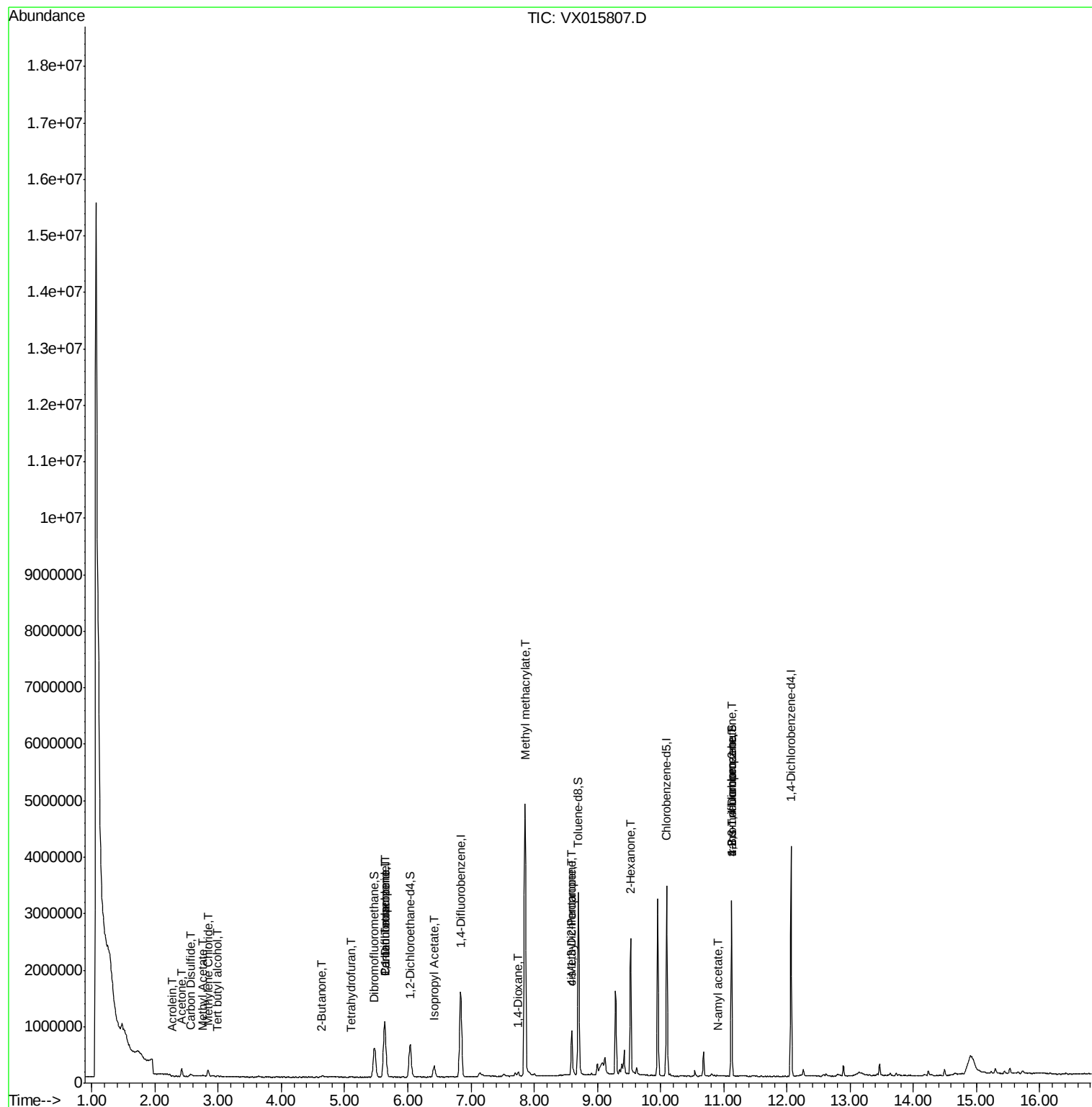
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	137	Below Cal	#	1
11) Tert butyl alcohol	3.00	59	5347	1.565	ug/l #	90
13) Acrolein	2.28	56	1369	0.704	ug/l	90
16) Acetone	2.42	43	176433	28.778	ug/l	97
17) Carbon Disulfide	2.56	76	43738	1.501	ug/l #	94
18) Methyl Acetate	2.75	43	19067	1.219	ug/l #	82
20) Methylene Chloride	2.84	84	46566	4.066	ug/l	95
25) 2-Butanone	4.64	43	32164	3.262	ug/l	97
29) Tetrahydrofuran	5.11	42	1285	0.203	ug/l #	91
36) 1,1-Dichloropropene	5.63	75	66728	4.618	ug/l #	54
38) Carbon Tetrachloride	5.64	117	87549	5.594	ug/l #	15
43) Isopropyl Acetate	6.42	43	296487	9.335	ug/l	97
48) Methyl methacrylate	7.86	41	416190	26.235	ug/l #	47
49) 1,4-Dioxane	7.73	88	5378	18.173	ug/l #	52
51) 4-Methyl-2-Pentanone	8.59	43	304070	16.894	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	127778	6.609	ug/l #	47
59) 2-Hexanone	9.53	43	319043	23.478	ug/l #	50
74) N-amyl acetate	10.91	43	7853	0.251	ug/l #	84
76) 1,2,3-Trichloropropane	11.12	75	387782	21.952	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	387782	52.673	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

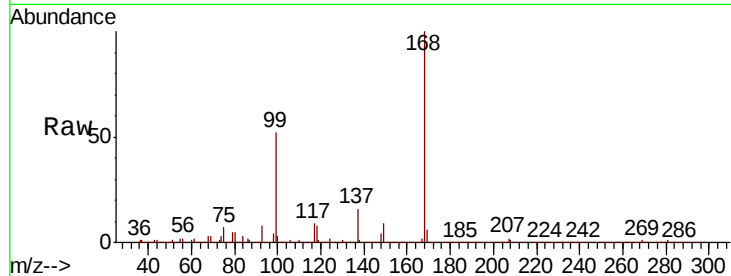
TP-2

Tot Ion:168 Resp: 1011790

Ion Ratio Lower Upper

168 100

99 52.0 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

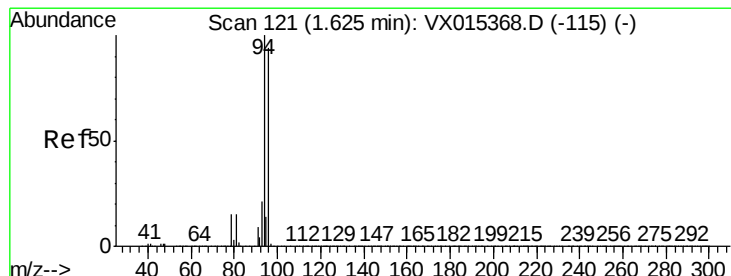
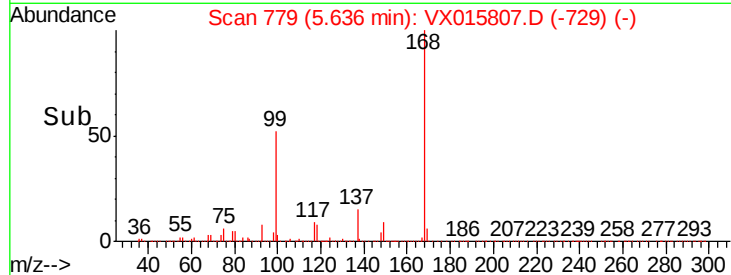
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX015807.D

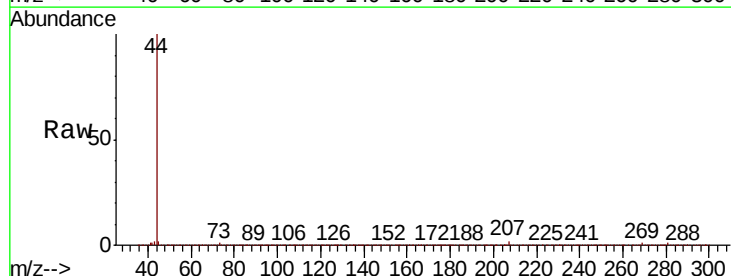
Acq: 21 Apr 2020 20:03

Tgt Ion: 94 Resp: 137

Ion Ratio Lower Upper

94 100

96 268.9 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1500

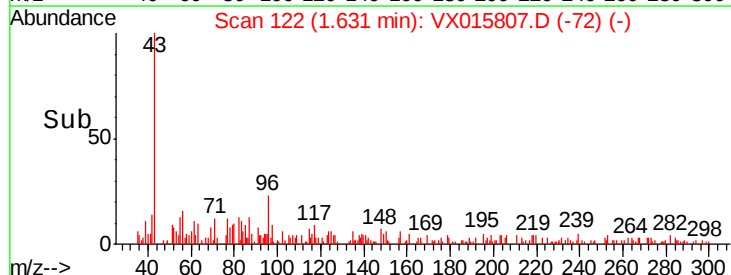
1000

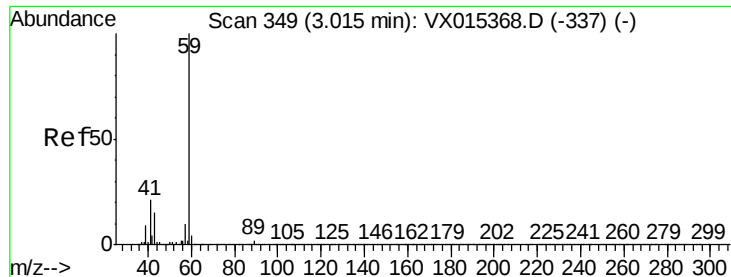
500

0

Time-->

1.62 1.63 1.63 1.64 1.64

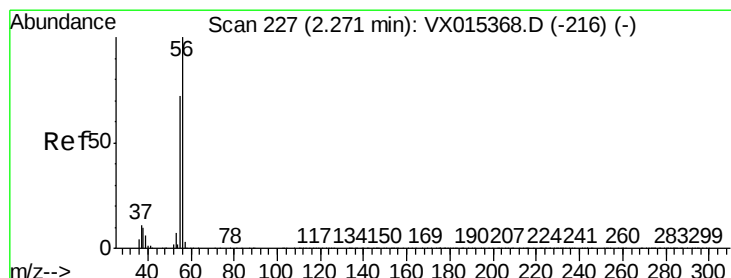
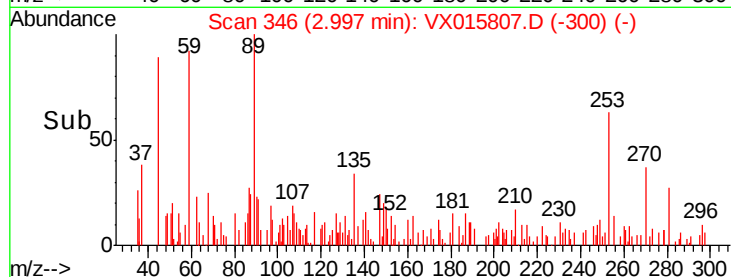
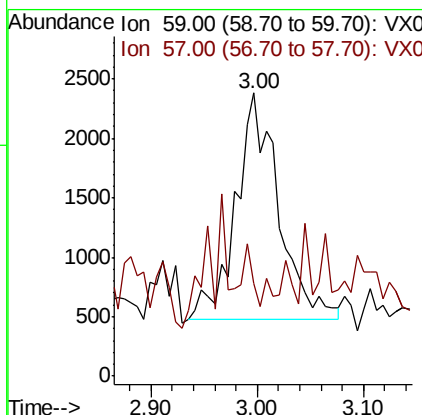
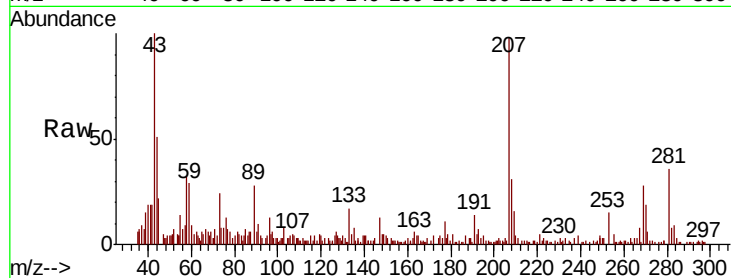




#11
Tert butyl alcohol
Concen: 1.565 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

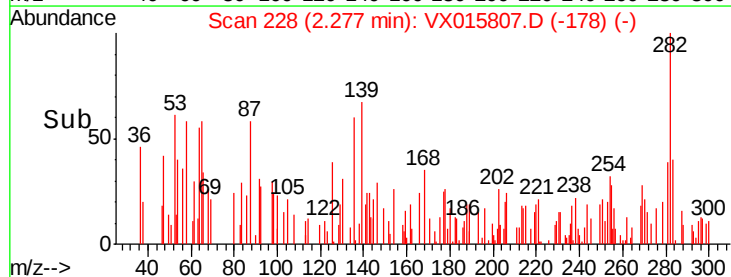
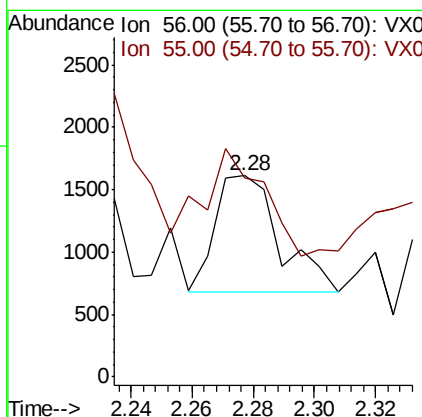
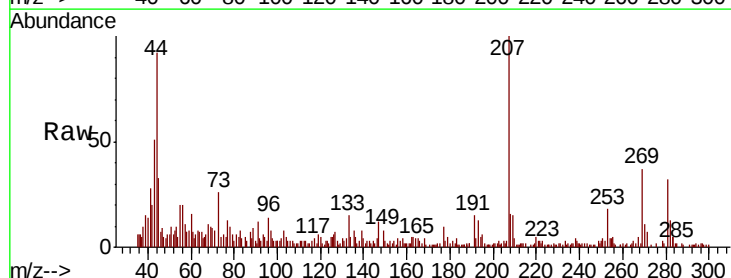
Instrument :
MSVOA_X
ClientSampled :
TP-2

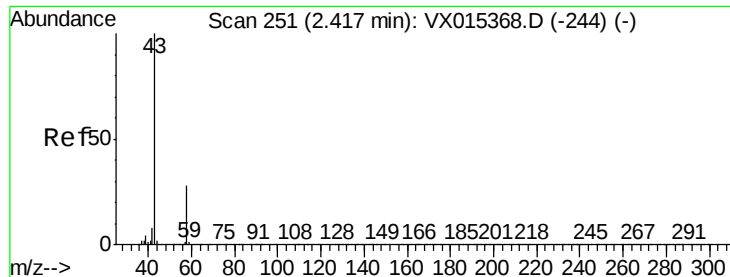
Tot Ion: 59 Resp: 5347
Ion Ratio Lower Upper
59 100
57 6.4 8.1 12.1#



#13
Acrolein
Concen: 0.704 ug/l
RT: 2.28 min Scan# 228
Delta R.T. 0.01 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

Tgt Ion: 56 Resp: 1369
Ion Ratio Lower Upper
56 100
55 79.1 57.0 85.4





#16

Acetone

Concen: 28.778 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

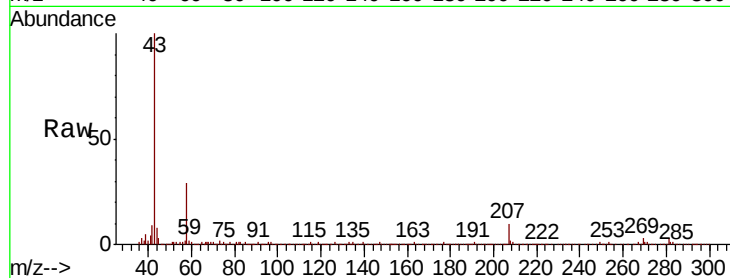
TP-2

Tot Ion: 43 Resp: 176433

Ion Ratio Lower Upper

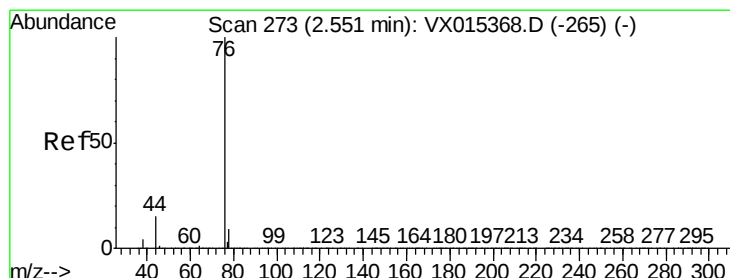
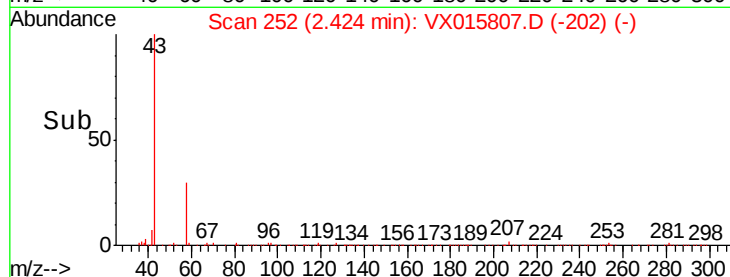
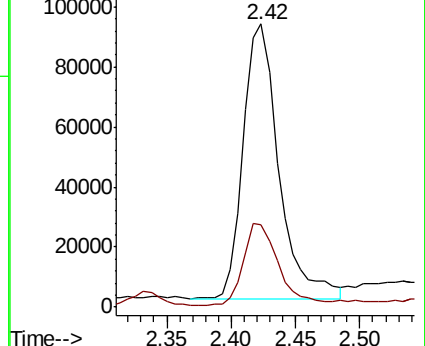
43 100

58 29.2 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.501 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015807.D

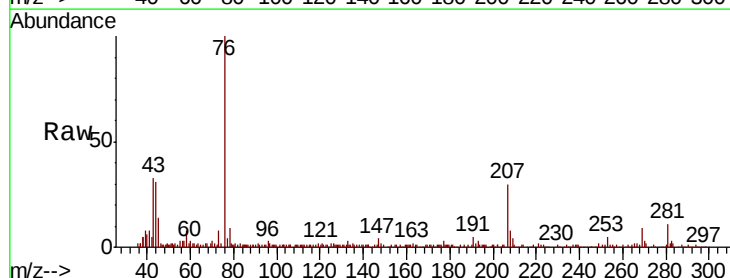
Acq: 21 Apr 2020 20:03

Tgt Ion: 76 Resp: 43738

Ion Ratio Lower Upper

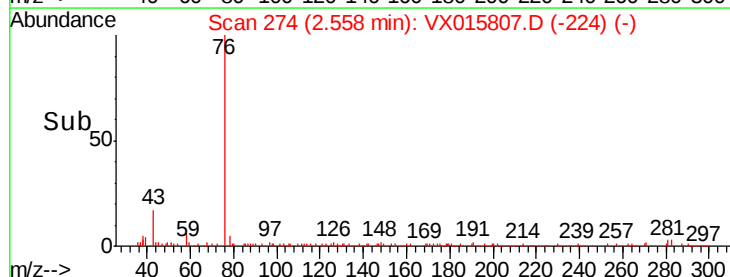
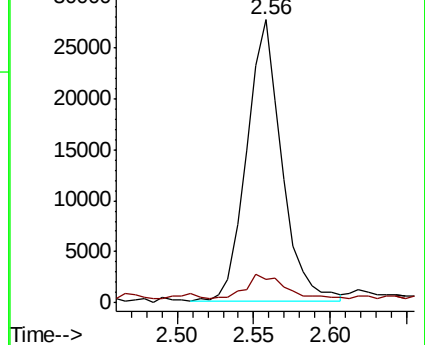
76 100

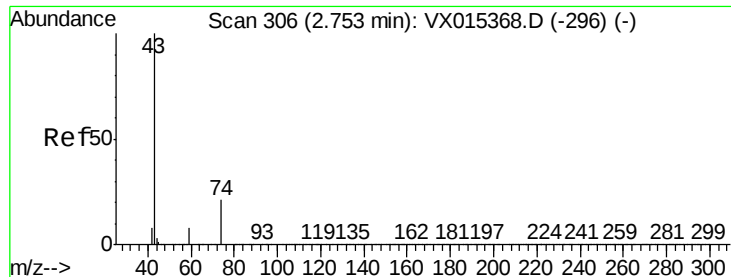
78 6.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

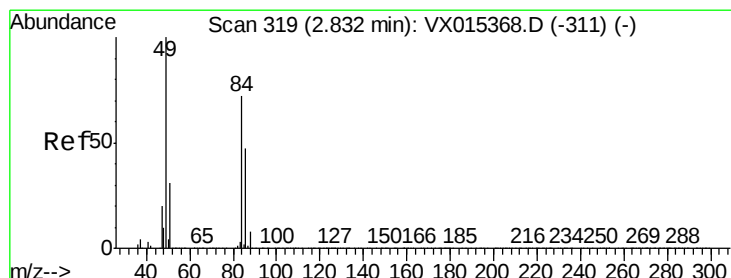
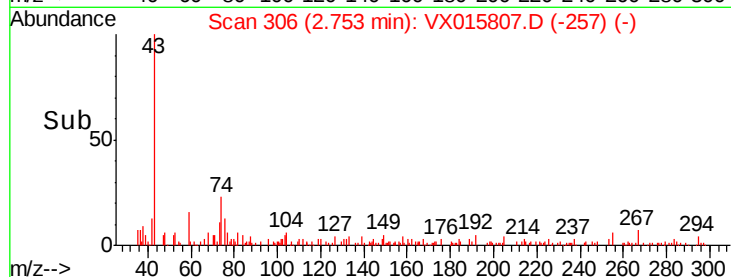
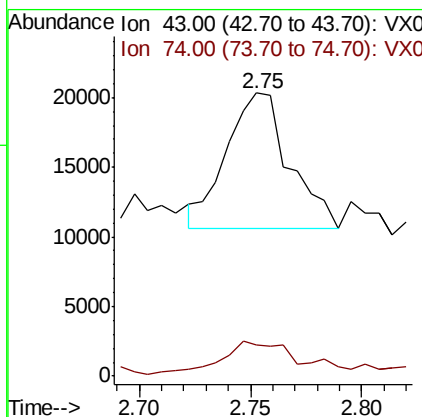
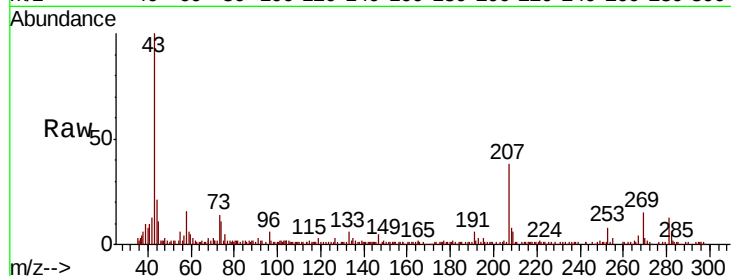




#18
Methyl Acetate
Concen: 1.219 ug/l
RT: 2.75 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

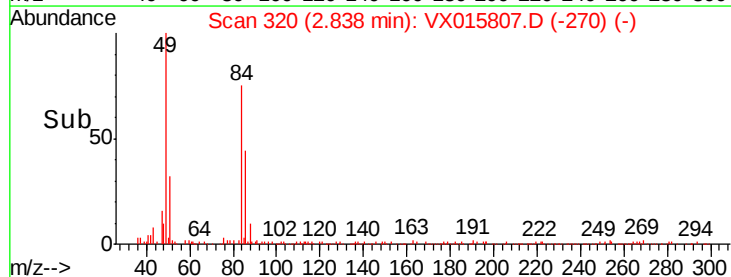
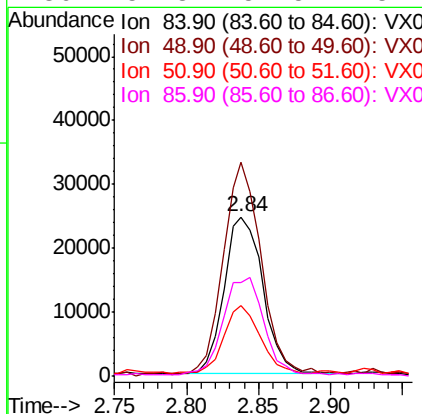
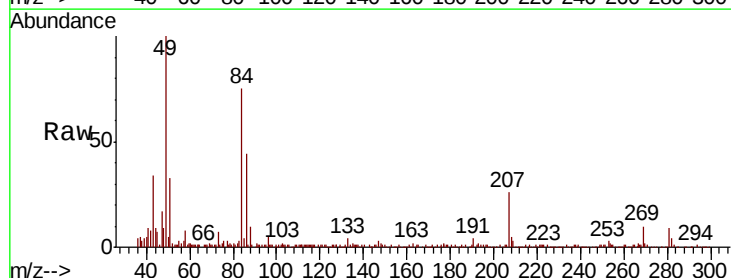
Instrument :
MSVOA_X
ClientSampleId :
TP-2

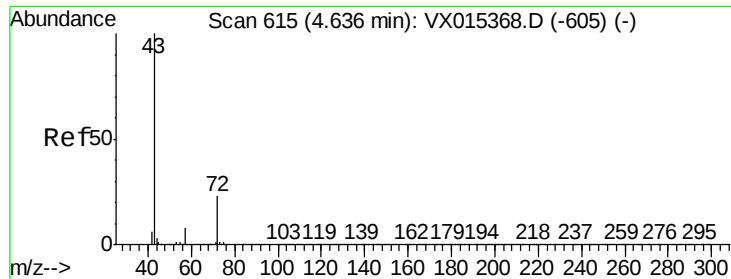
Tot Ion: 43 Resp: 19067
Ion Ratio Lower Upper
43 100
74 28.9 16.5 24.7#



#20
Methylene Chloride
Concen: 4.066 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

Tgt Ion: 84 Resp: 46566
Ion Ratio Lower Upper
84 100
49 134.1 111.3 166.9
51 42.4 34.0 51.0
86 57.8 52.5 78.7





#25

2-Butanone

Concen: 3.262 ug/l

RT: 4.64 min Scan# 616

Delta R.T. 0.01 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

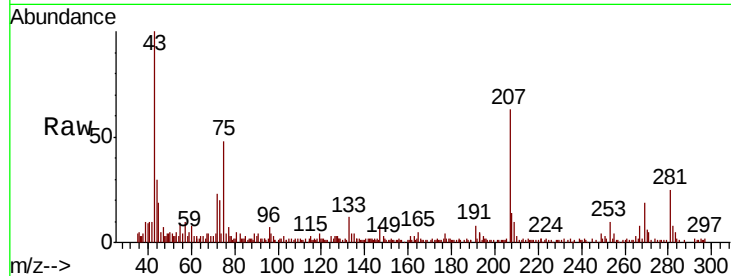
TP-2

Tot Ion: 43 Resp: 32164

Ion Ratio Lower Upper

43 100

72 25.0 19.0 28.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.64

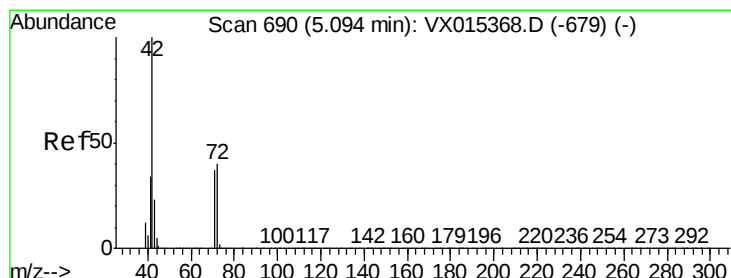
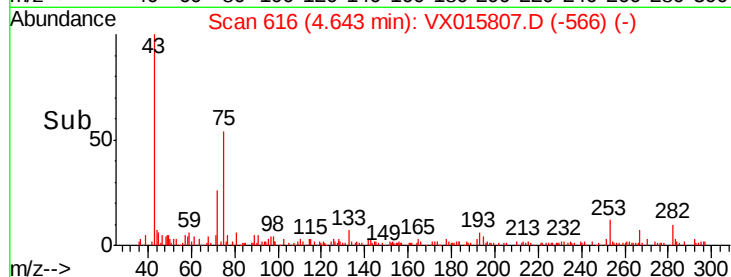
15000

10000

5000

0

Time--> 4.50 4.60 4.70



#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 5.11 min Scan# 692

Delta R.T. 0.01 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

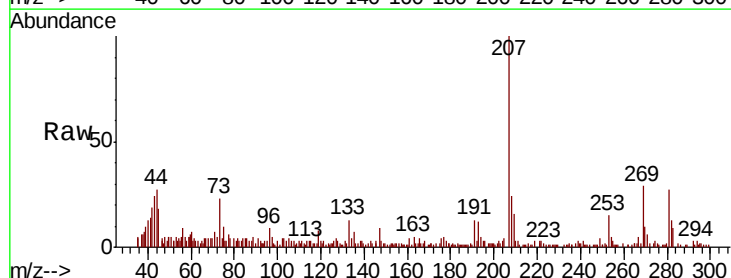
Tgt Ion: 42 Resp: 1285

Ion Ratio Lower Upper

42 100

72 49.9 31.7 47.5#

71 37.7 29.6 44.4



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

2500

2000

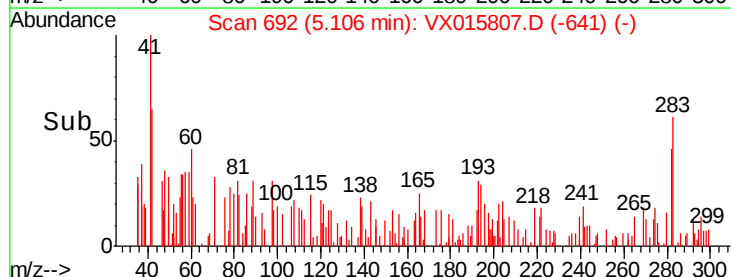
1500

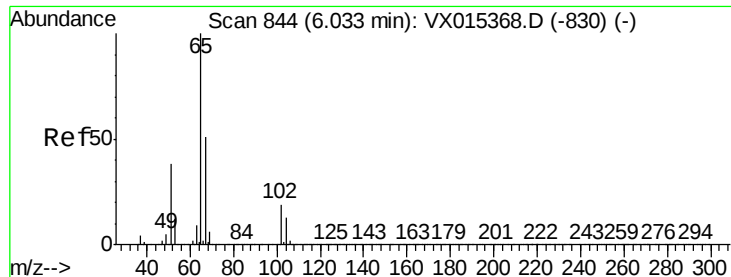
1000

500

0

Time--> 5.06 5.08 5.10 5.12





#33

1,2-Dichloroethane-d4

Concen: 39.269 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

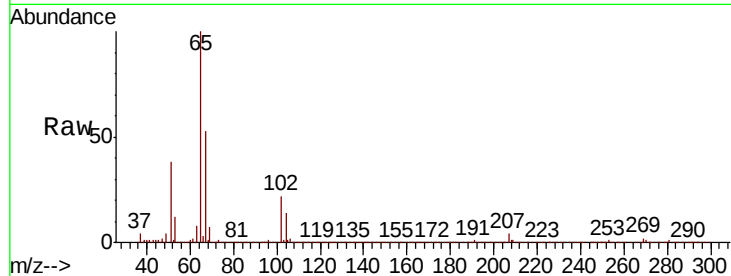
TP-2

Tot Ion: 65 Resp: 560383

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

250000

200000

150000

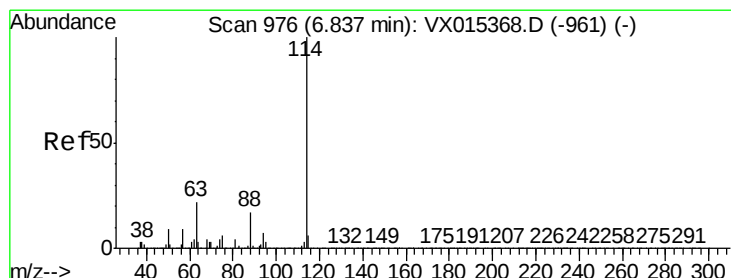
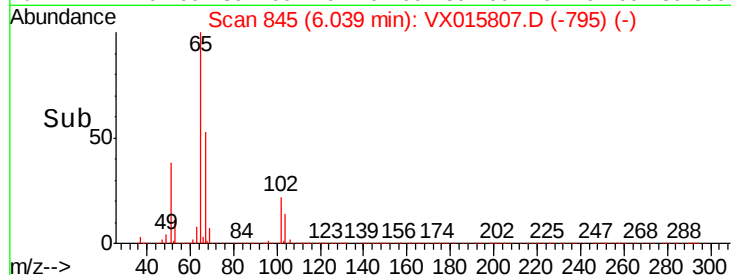
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

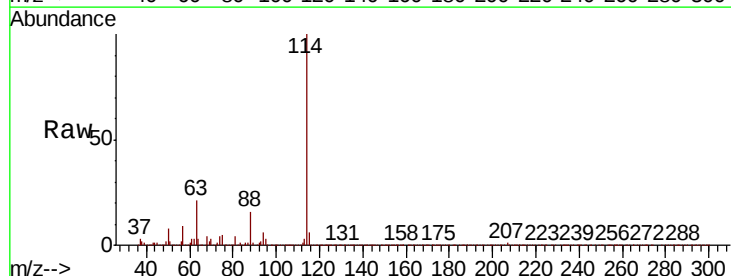
Tgt Ion: 114 Resp: 1568204

Ion Ratio Lower Upper

114 100

63 20.5 0.0 44.2

88 15.9 0.0 33.8



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

6.84

800000

600000

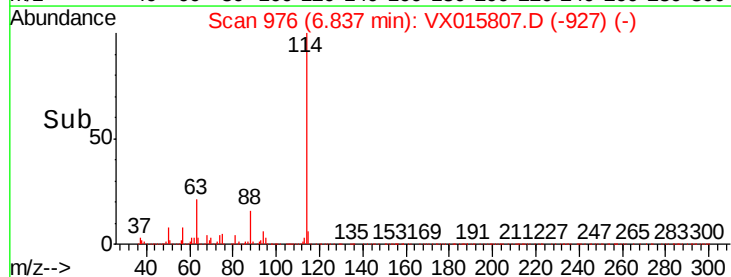
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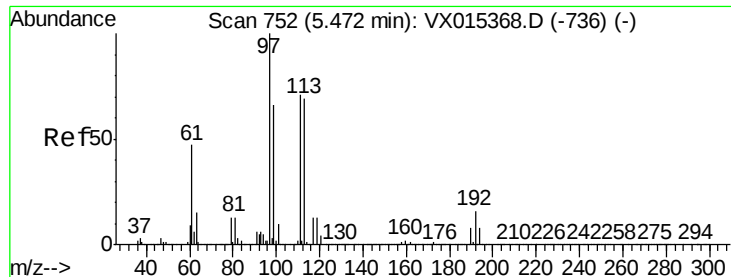
200000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 44.506 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :
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ClientSampled :
TP-2

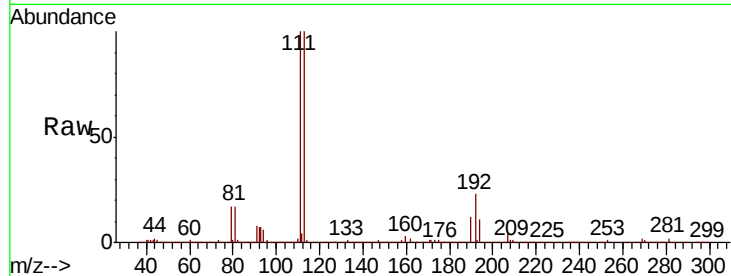
Tot Ion:113 Resp: 446141

Ion Ratio Lower Upper

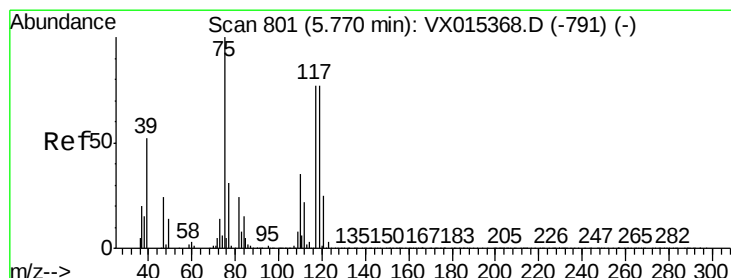
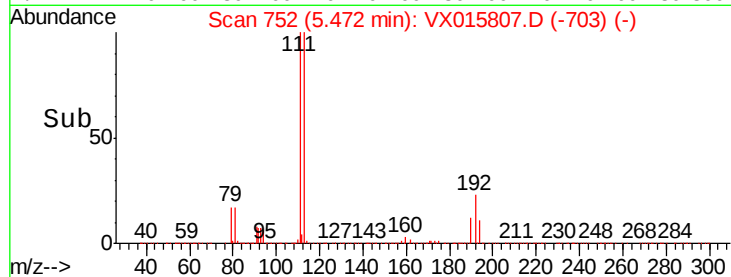
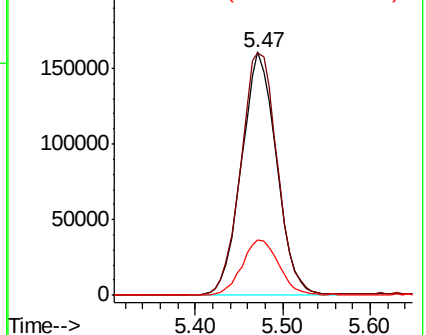
113 100

111 104.5 81.5 122.3

192 24.2 17.8 26.6



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: 4.618 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.14 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

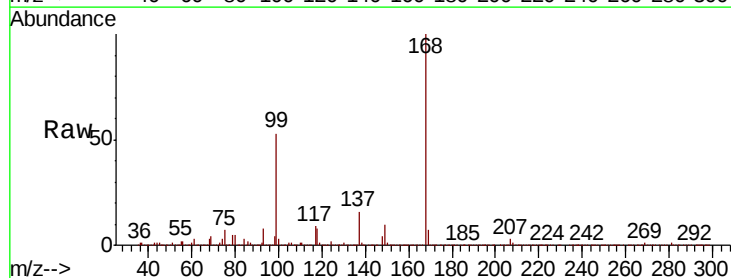
Tgt Ion: 75 Resp: 66728

Ion Ratio Lower Upper

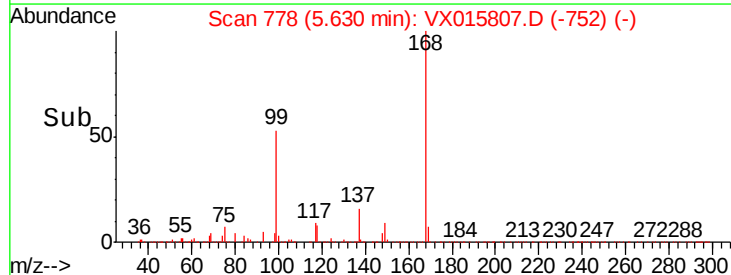
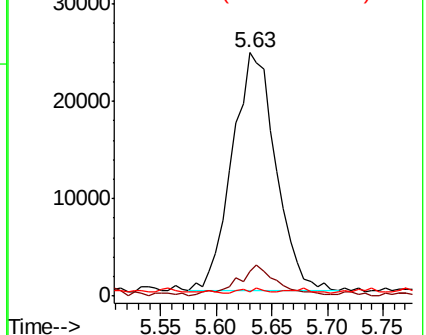
75 100

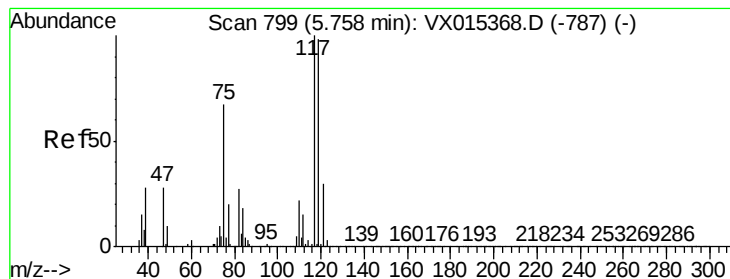
110 12.2 17.1 51.3#

77 0.9 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 5.594 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

TP-2

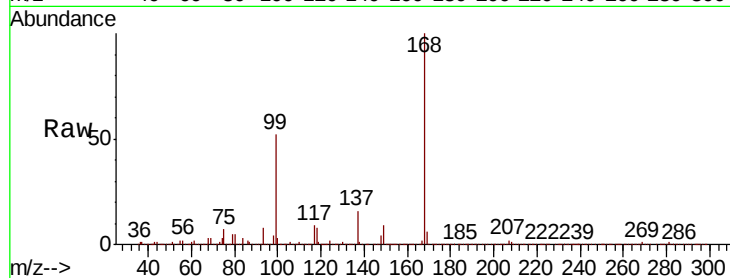
Tot Ion:117 Resp: 87549

Ion Ratio Lower Upper

117 100

119 4.7 78.0 117.0#

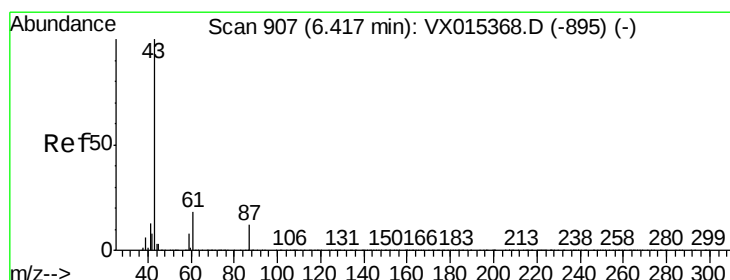
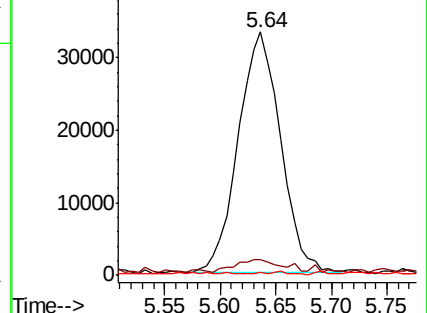
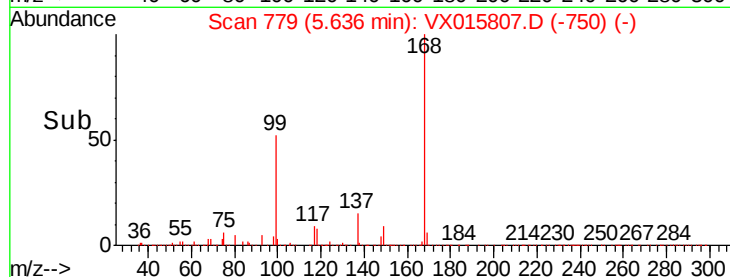
121 0.2 23.8 35.8#



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: 9.335 ug/l

RT: 6.42 min Scan# 907

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

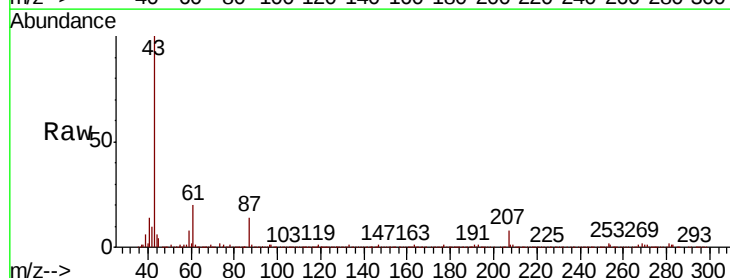
Tgt Ion: 43 Resp: 296487

Ion Ratio Lower Upper

43 100

61 19.7 14.8 22.2

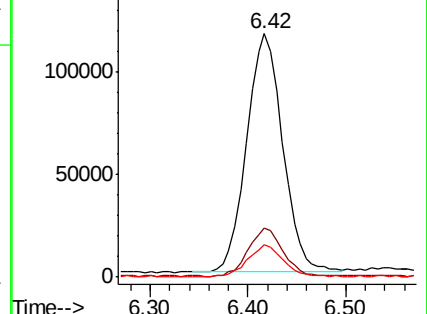
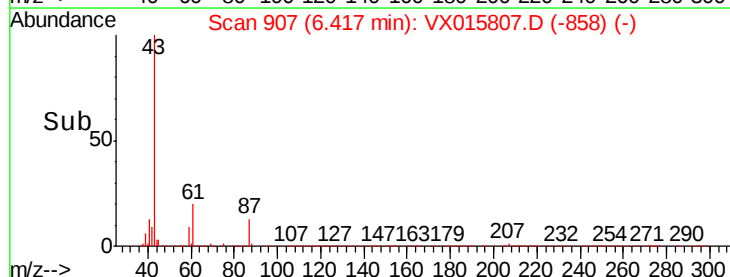
87 12.8 9.4 14.0

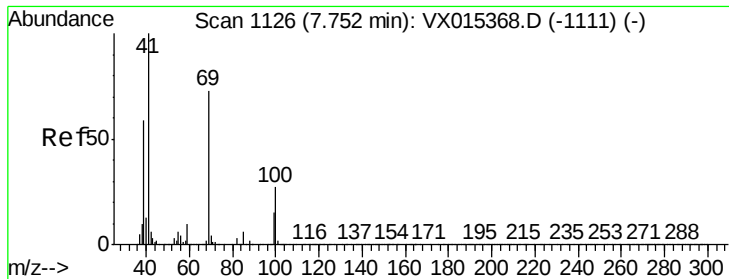


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 26.235 ug/l

RT: 7.86 min Scan# 1143

Delta R.T. 0.10 min

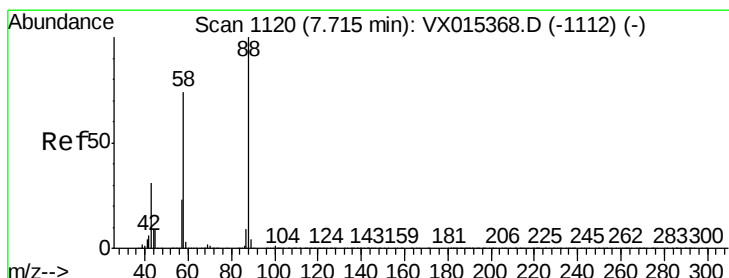
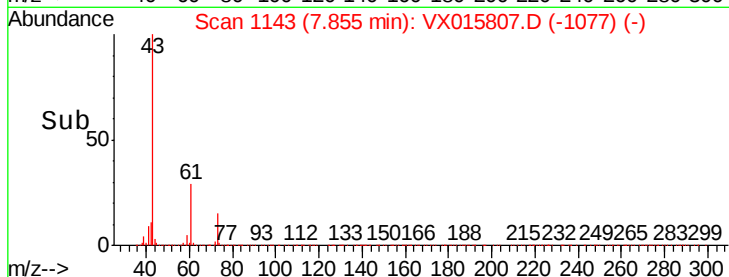
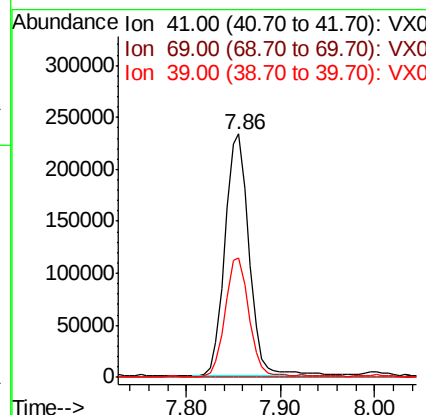
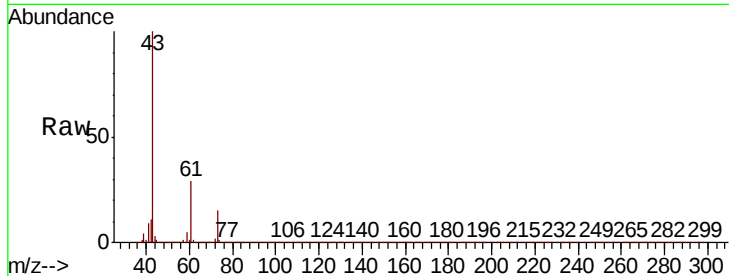
Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :
MSVOA_X
ClientSampled :
TP-2

Tot Ion: 41 Resp: 416190

Ion	Ratio	Lower	Upper
41	100		
69	0.2	56.7	85.1#
39	48.3	46.5	69.7



#49

1,4-Dioxane

Concen: 18.173 ug/l

RT: 7.73 min Scan# 1123

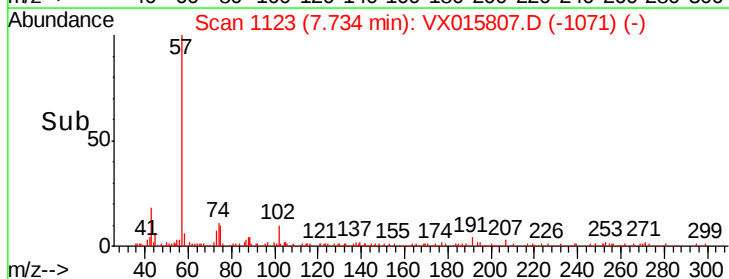
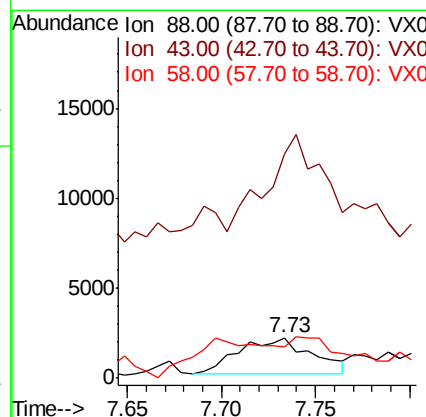
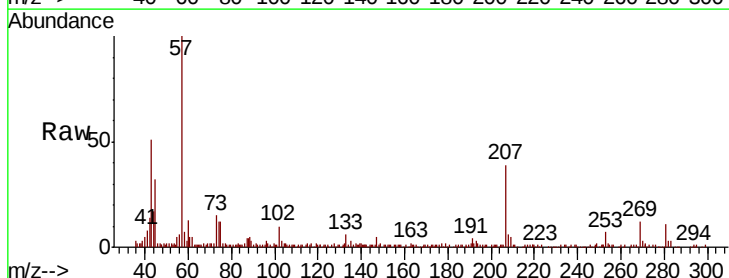
Delta R.T. 0.02 min

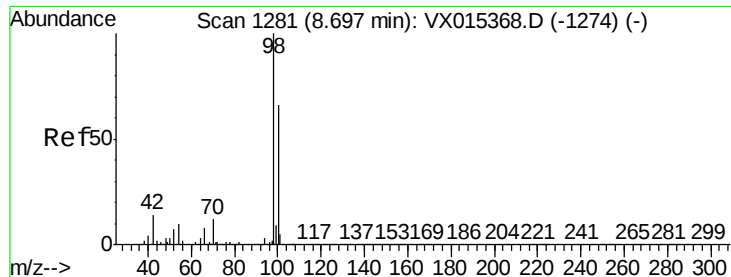
Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Tgt Ion: 88 Resp: 5378

Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.1	45.1#
58	40.4	60.6	90.8#

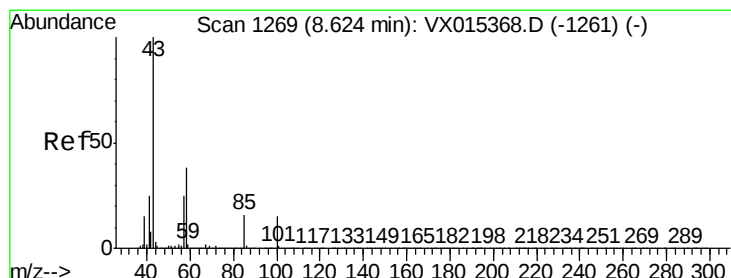
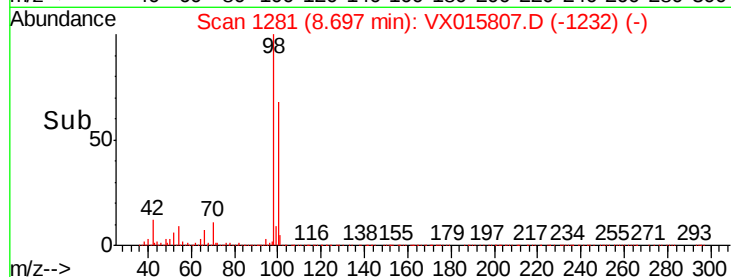
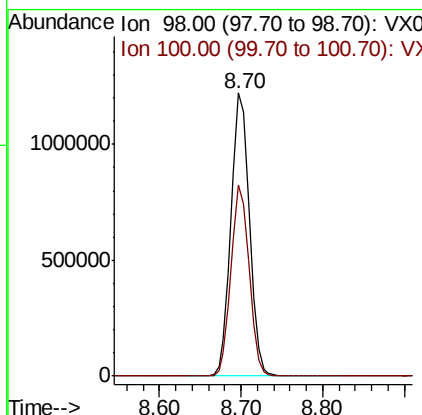
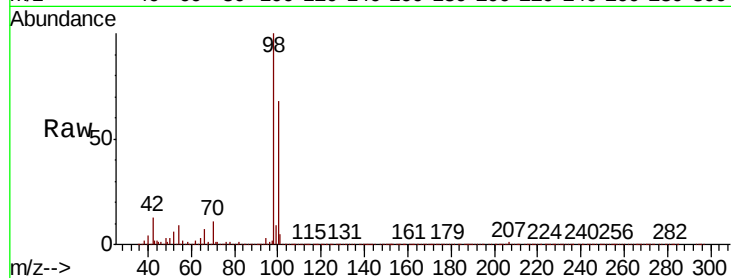




#50
Toluene-d8
Concen: 51.316 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

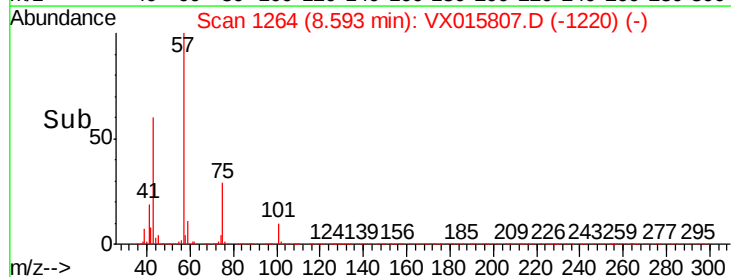
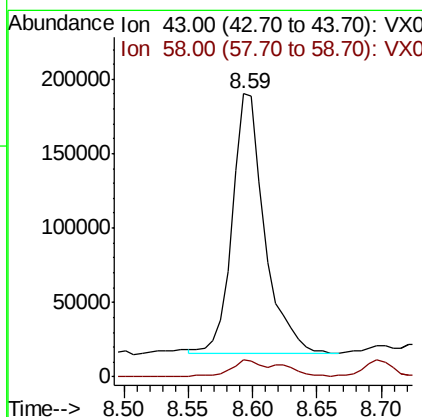
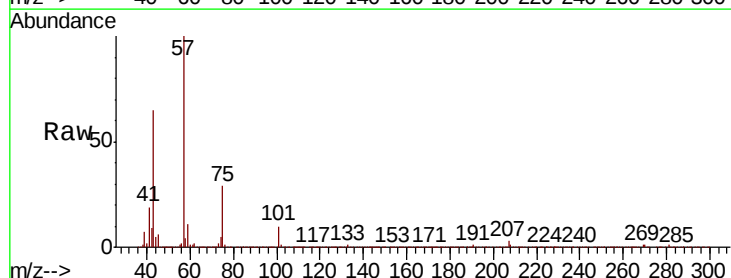
Instrument :
MSVOA_X
ClientSampled :
TP-2

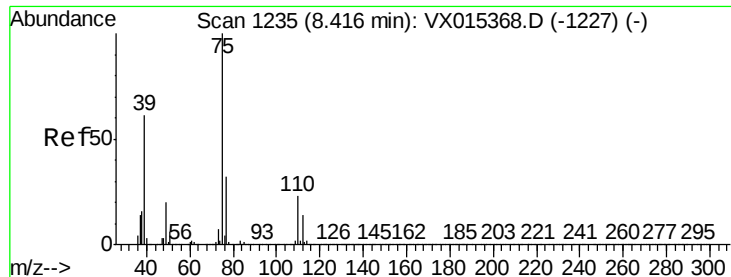
Tot Ion: 98 Resp: 1893931
Ion Ratio Lower Upper
98 100
100 66.2 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 16.894 ug/l
RT: 8.59 min Scan# 1264
Delta R.T. -0.03 min
Lab File: VX015807.D
Acq: 21 Apr 2020 20:03

Tgt Ion: 43 Resp: 304070
Ion Ratio Lower Upper
43 100
58 5.9 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 6.609 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. 0.18 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

TP-2

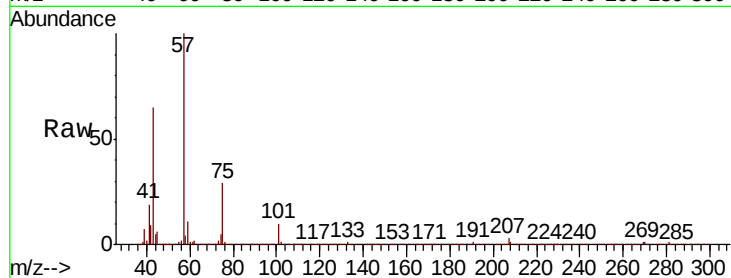
Tot Ion: 75 Resp: 127778

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

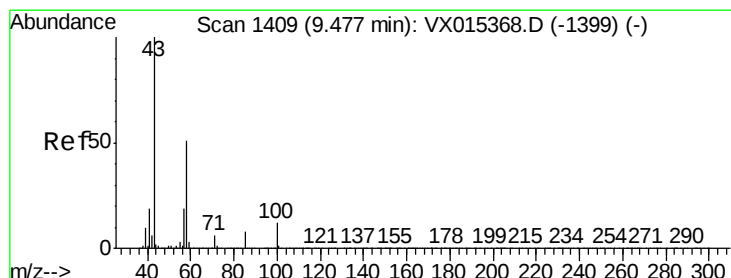
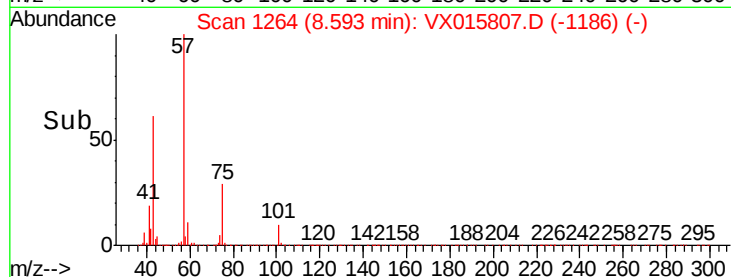
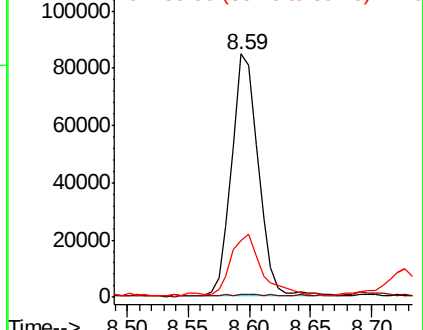
39 22.2 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 23.478 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015807.D

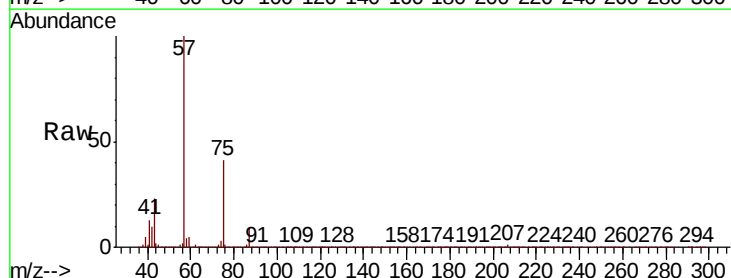
Acq: 21 Apr 2020 20:03

Tgt Ion: 43 Resp: 319043

Ion Ratio Lower Upper

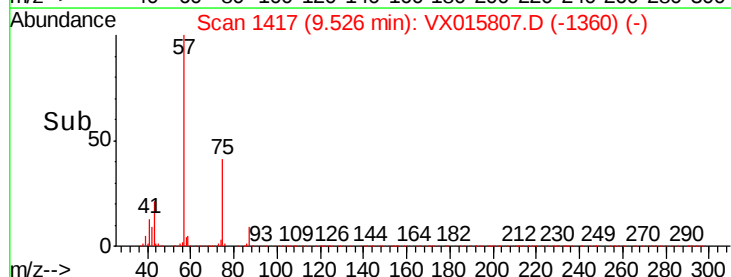
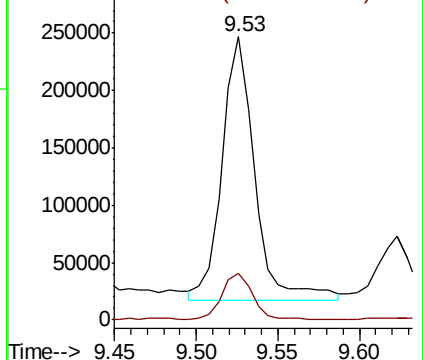
43 100

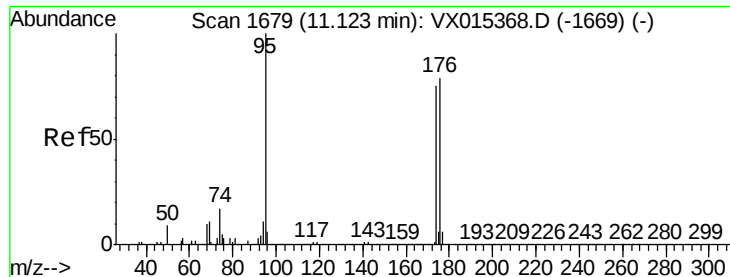
58 16.1 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 52.990 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

TP-2

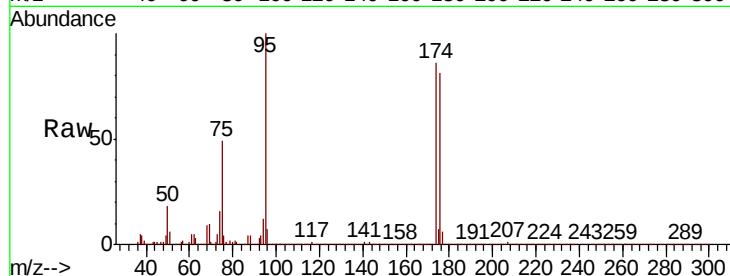
Tot Ion: 95 Resp: 794803

Ion Ratio Lower Upper

95 100

174 85.8 0.0 158.6

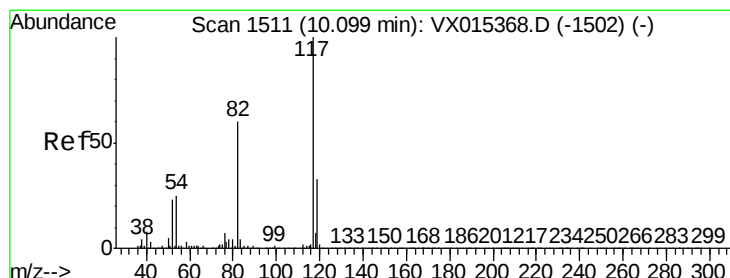
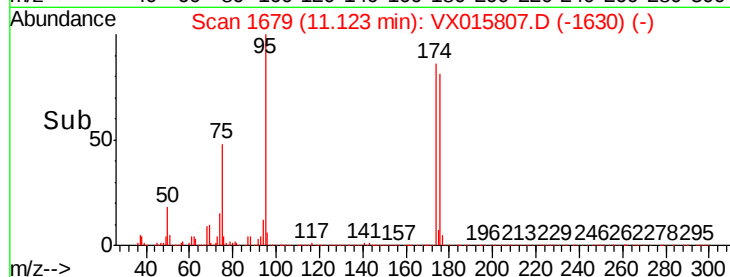
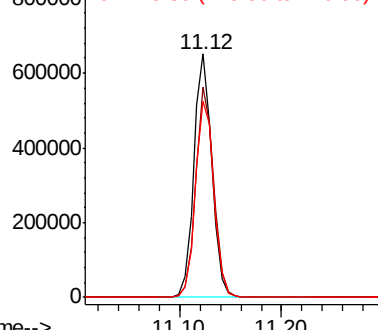
176 82.7 0.0 159.0



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# 1511

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

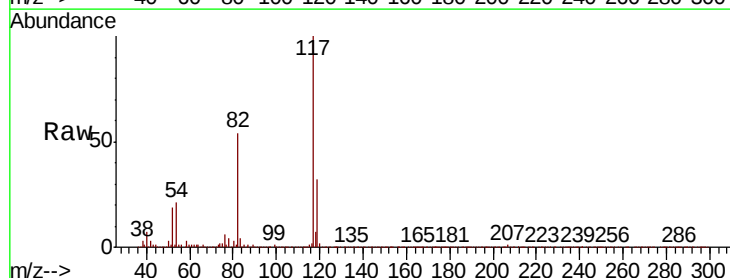
Tgt Ion: 117 Resp: 1517454

Ion Ratio Lower Upper

117 100

82 54.0 47.8 71.8

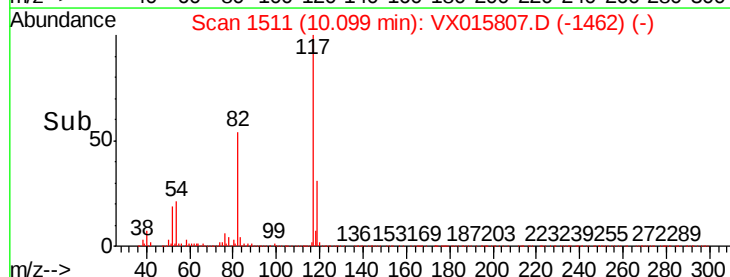
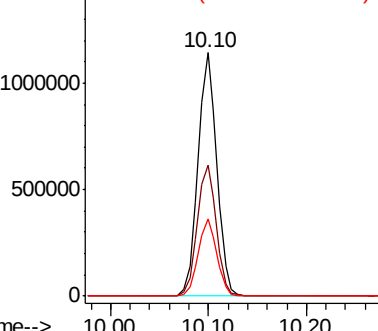
119 31.5 26.8 40.2

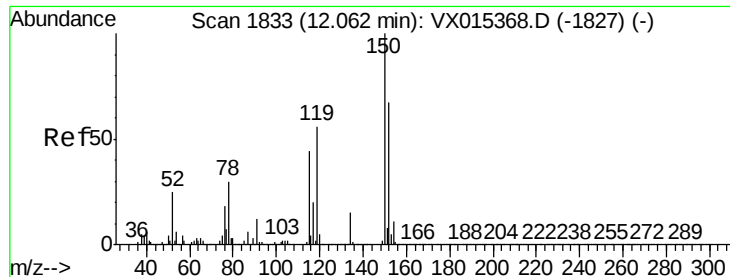


Abundance Ion 116.90 (116.60 to 117.60): V

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# 1833

Delta R.T. 0.00 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampled :

TP-2

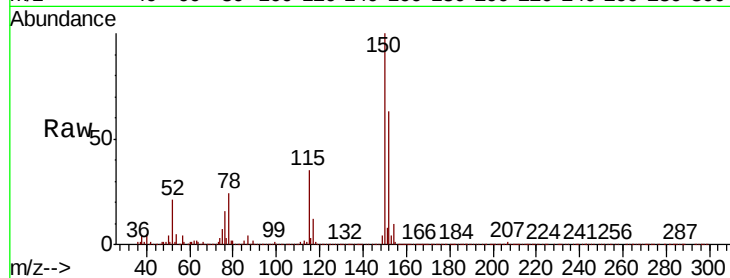
Tot Ion:152 Resp: 859020

Ion Ratio Lower Upper

152 100

115 55.2 39.0 116.9

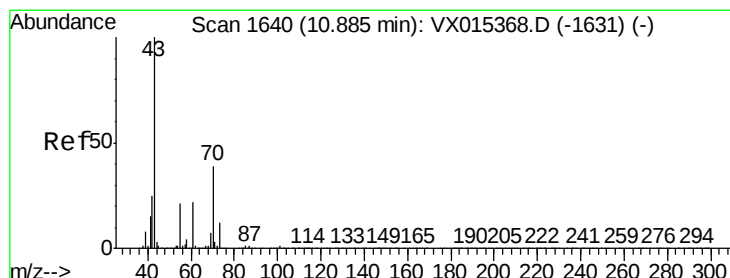
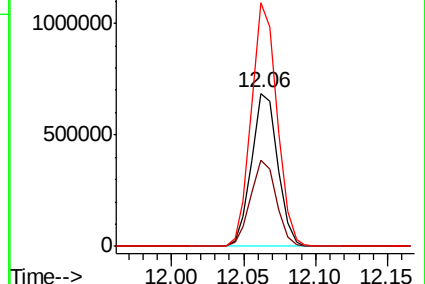
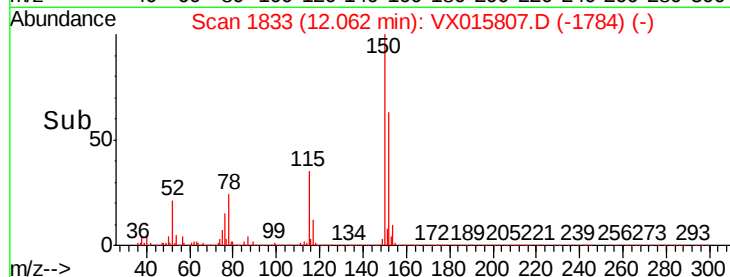
150 155.8 0.0 340.8



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: 0.251 ug/l

RT: 10.91 min Scan# 1644

Delta R.T. 0.02 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Tgt Ion: 43 Resp: 7853

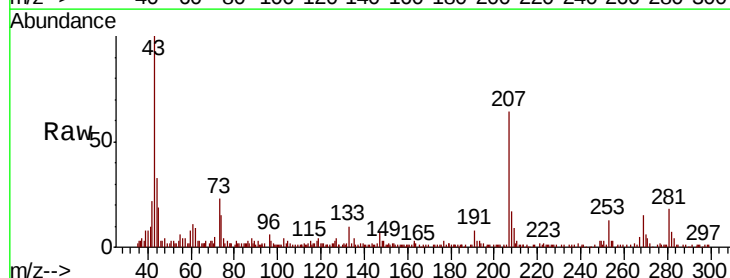
Ion Ratio Lower Upper

43 100

70 36.7 30.2 45.4

55 24.7 16.8 25.2

61 0.0 18.2 27.2#

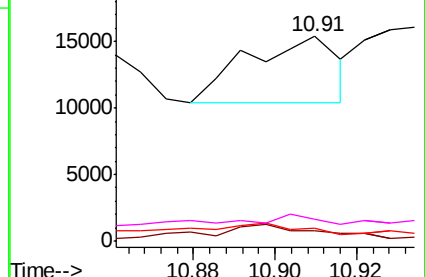
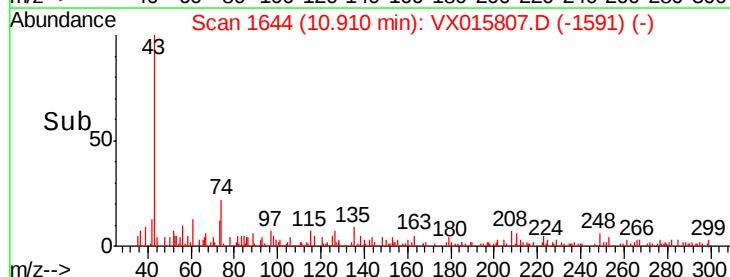


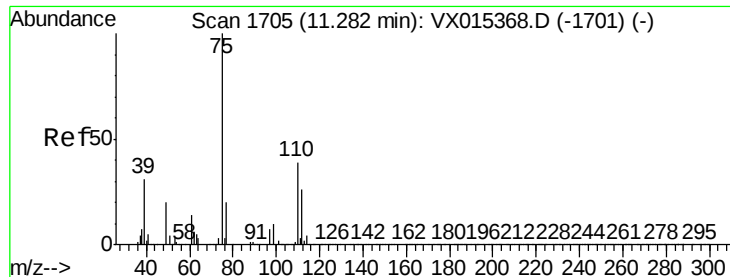
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.952 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

Instrument :

MSVOA_X

ClientSampleId :

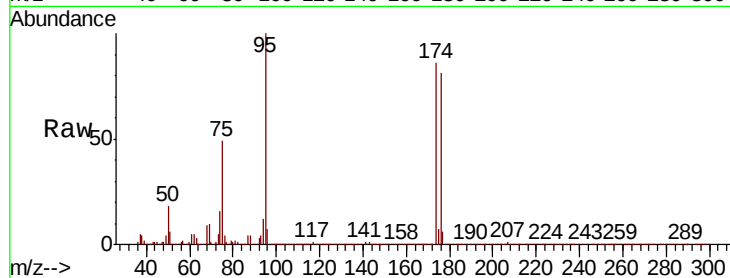
TP-2

Tot Ion: 75 Resp: 387782

Ion Ratio Lower Upper

75 100

77 1.5 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

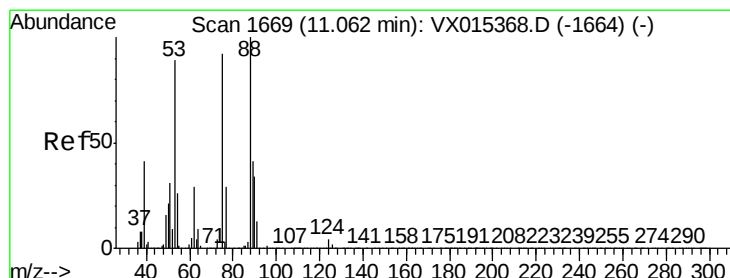
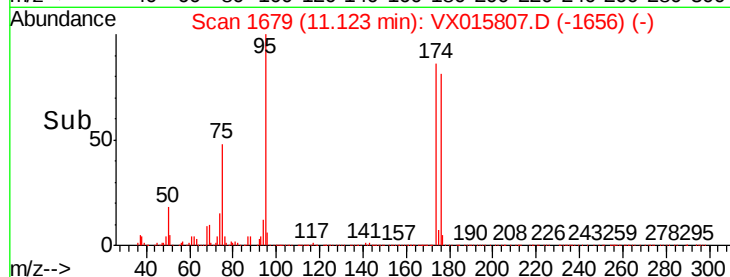
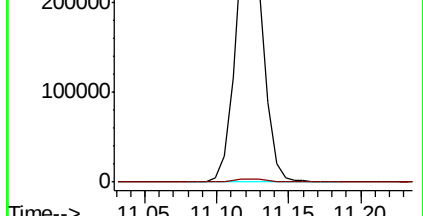
11.12

300000

200000

100000

0



#81

trans-1,4-Dichloro-2-butene

Concen: 52.673 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015807.D

Acq: 21 Apr 2020 20:03

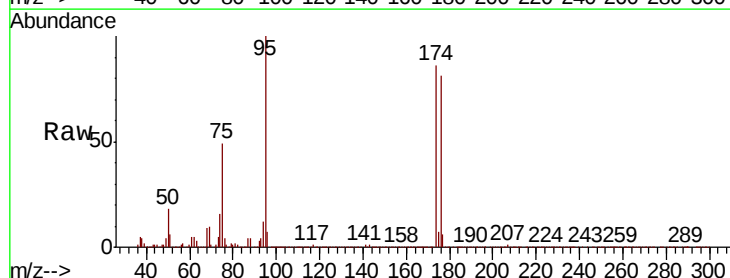
Tgt Ion: 75 Resp: 387782

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.3 36.1 54.1#



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

11.12

400000

300000

200000

100000

0

