

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX042120\
 Data File : VX015796.D
 Acq On : 21 Apr 2020 15:53
 Operator : JC/SP
 Sample : L2327-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2-S

Quant Time: Apr 22 04:19:00 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	1095803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1662856	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1601448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	908459	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	602256	38.97	ug/l	0.00
Spiked Amount			Recovery	=	77.94%	
35) Dibromofluoromethane	5.47	113	486061	45.73	ug/l	0.00
Spiked Amount			Recovery	=	91.46%	
50) Toluene-d8	8.70	98	1959001	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.12	95	831990	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	

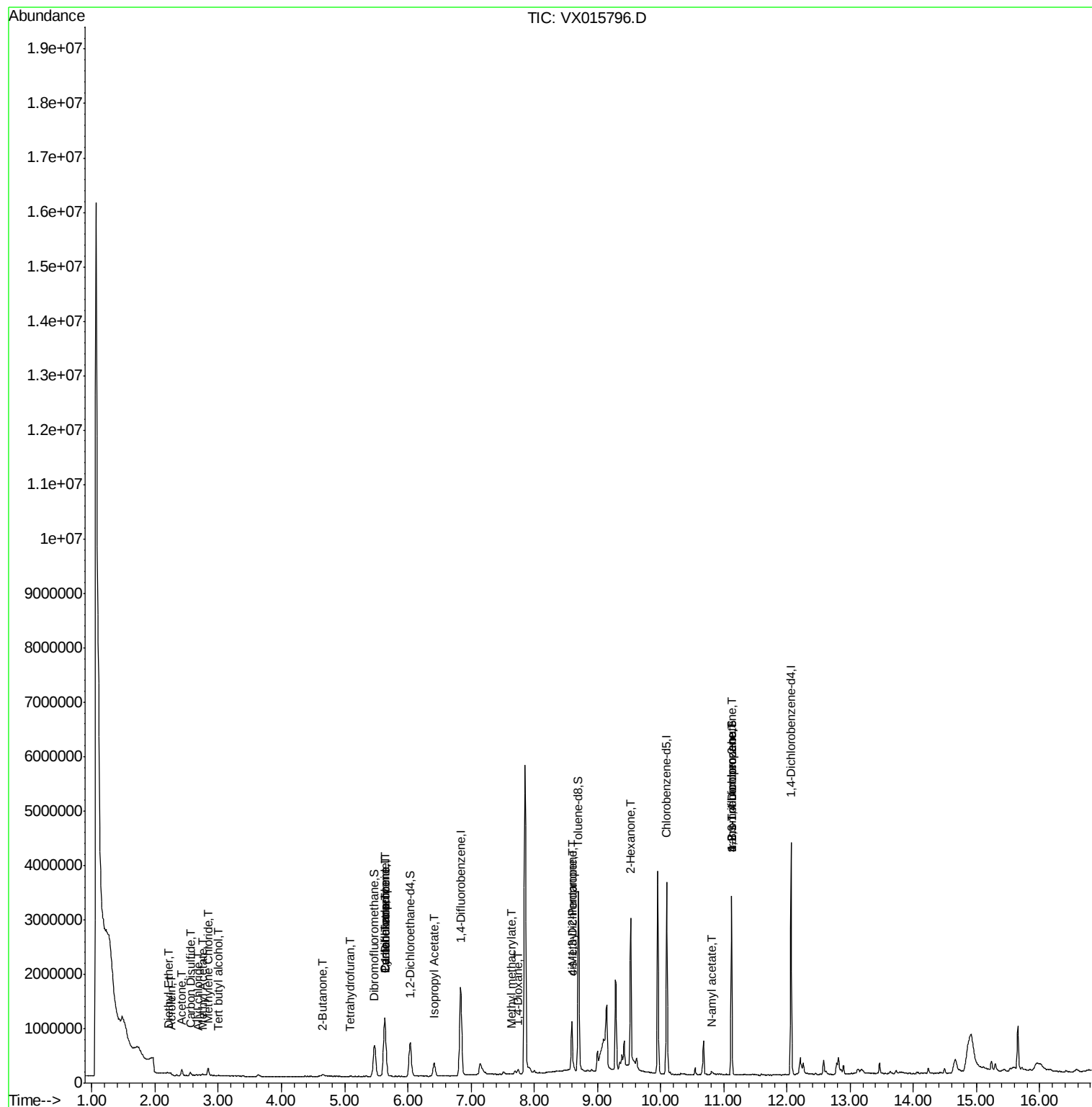
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	254	Below Cal	#	3
8) Diethyl Ether	2.22	74	2266	0.355	ug/l	78
11) Tert butyl alcohol	3.00	59	2175	0.588	ug/l #	32
13) Acrolein	2.27	56	1461	0.693	ug/l #	14
14) Allyl chloride	2.69	41	9541	0.395	ug/l #	32
16) Acetone	2.42	43	151854	22.870	ug/l	100
17) Carbon Disulfide	2.56	76	91446	2.898	ug/l	97
18) Methyl Acetate	2.75	43	25807	1.523	ug/l #	81
20) Methylene Chloride	2.84	84	66123	5.332	ug/l	93
25) 2-Butanone	4.64	43	34374	3.219	ug/l	98
29) Tetrahydrofuran	5.09	42	1478	0.215	ug/l #	1
31) Cyclohexane	5.63	56	21978	1.123	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	74279	4.848	ug/l #	53
38) Carbon Tetrachloride	5.64	117	96365	5.807	ug/l #	15
43) Isopropyl Acetate	6.42	43	357427	10.613	ug/l	100
48) Methyl methacrylate	7.65	41	18602	1.106	ug/l #	20
49) 1,4-Dioxane	7.73	88	4008	12.772	ug/l #	72
51) 4-Methyl-2-Pentanone	8.60	43	399102	20.911	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	144997	7.072	ug/l #	48
59) 2-Hexanone	9.53	43	392402	27.233	ug/l #	50
74) N-amyl acetate	10.81	43	58478	1.766	ug/l #	48
76) 1,2,3-Trichloropropane	11.12	75	410923	21.996	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	410923	52.778	ug/l #	10

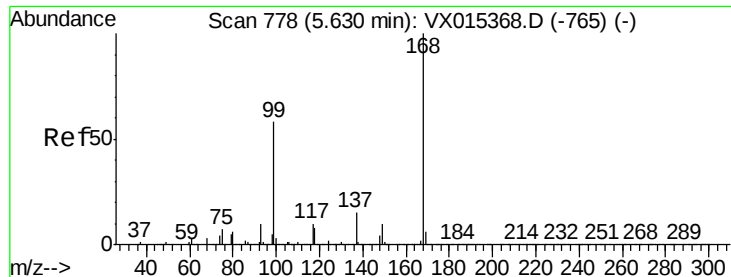
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX015796.D
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TP-2-S

Quant Time: Apr 22 04:19:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

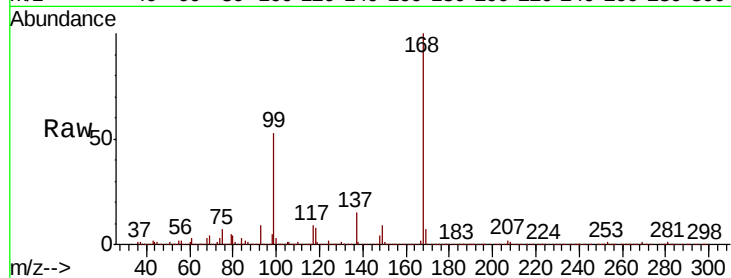
TP-2-S

Tot Ion:168 Resp: 1095803

Ion Ratio Lower Upper

168 100

99 52.4 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

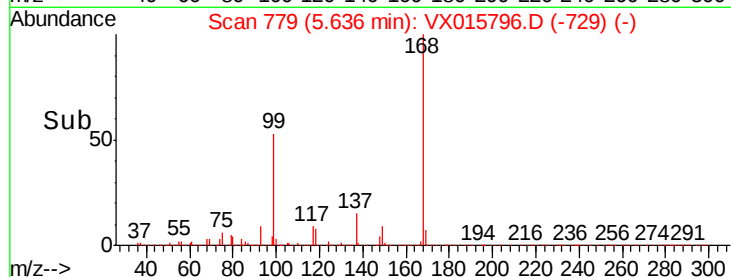
0

5.50

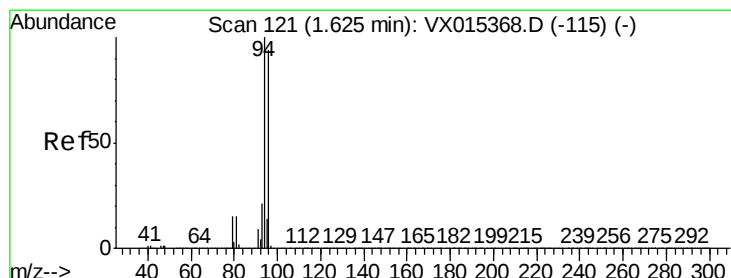
5.60

5.70

5.80



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015796.D

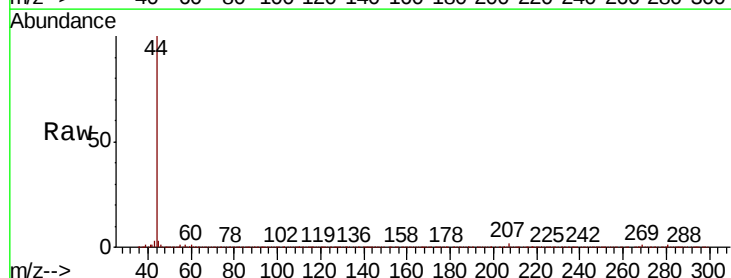
Acq: 21 Apr 2020 15:53

Tgt Ion: 94 Resp: 254

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

2500

2000

1500

1000

500

0

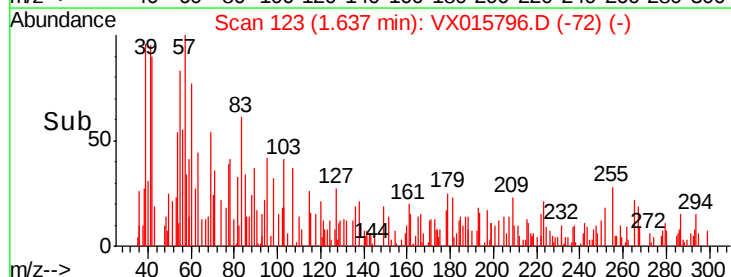
1.62

1.63

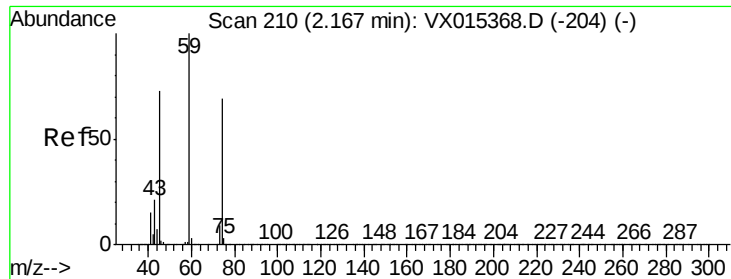
1.64

1.65

1.66



Time-->



#8

Diethyl Ether

Concen: 0.355 ug/l

RT: 2.22 min Scan# 218

Delta R.T. 0.05 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

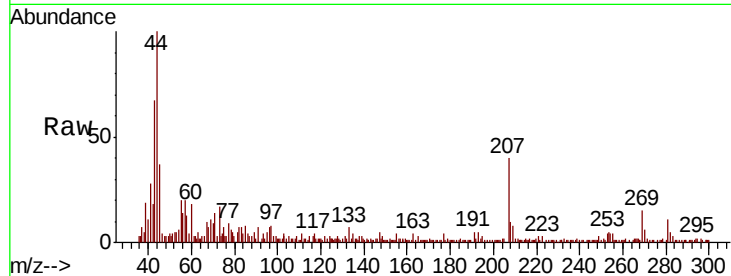
TP-2-S

Tot Ion: 74 Resp: 2266

Ion Ratio Lower Upper

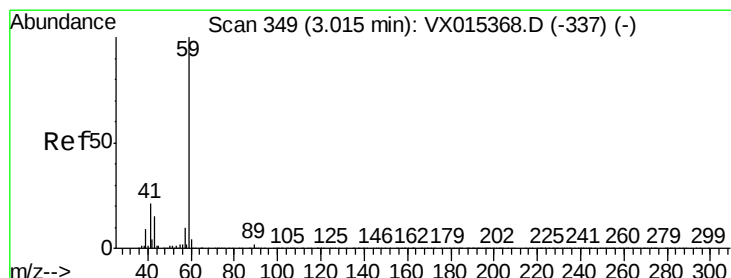
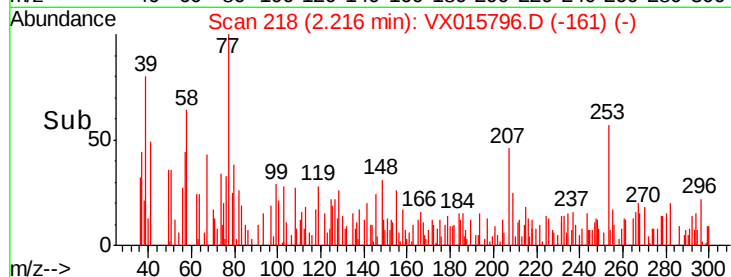
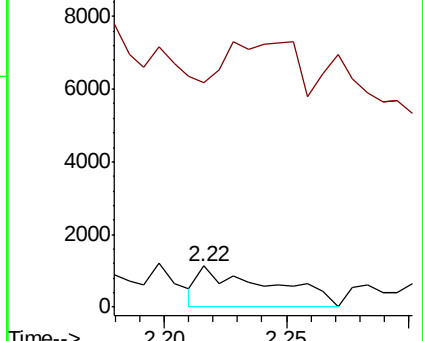
74 100

45 130.2 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.588 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015796.D

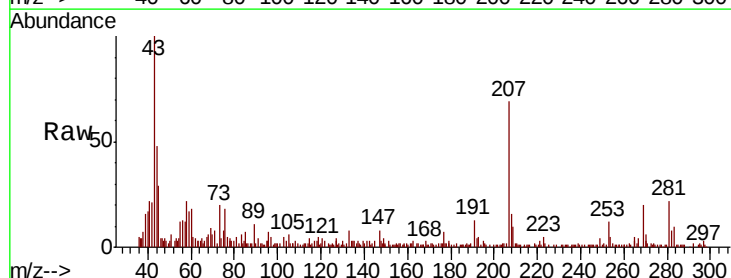
Acq: 21 Apr 2020 15:53

Tgt Ion: 59 Resp: 2175

Ion Ratio Lower Upper

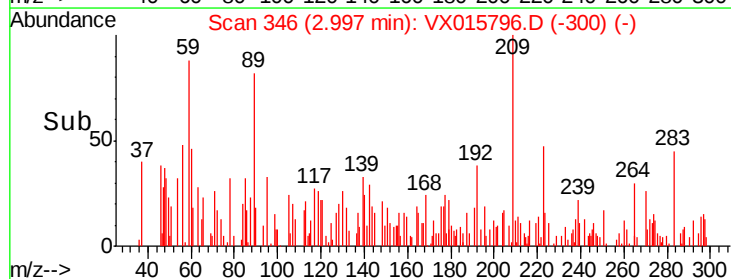
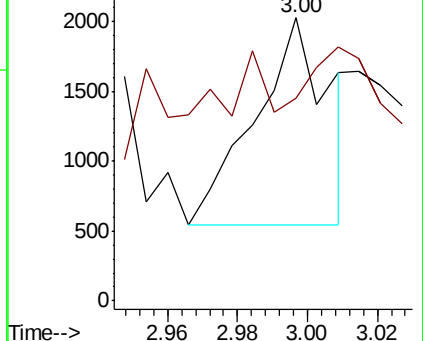
59 100

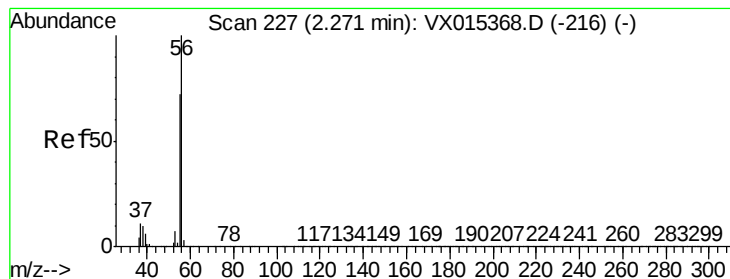
57 35.4 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.693 ug/l

RT: 2.27 min Scan# 227

Delta R.T. 0.00 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

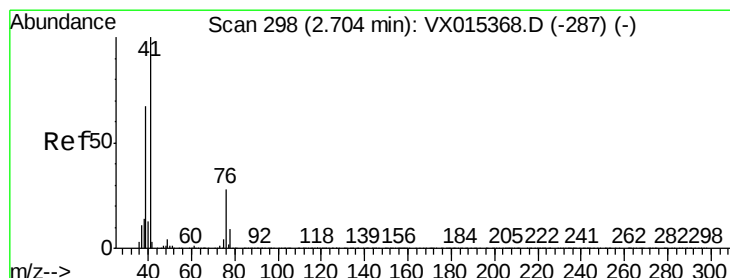
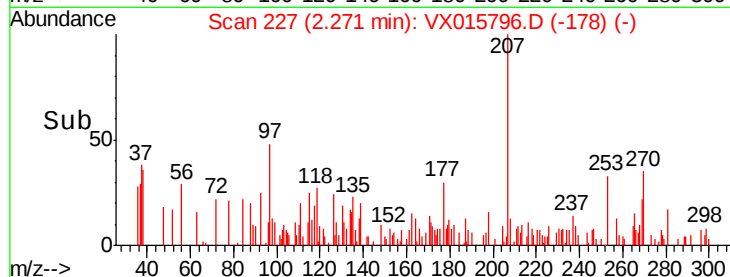
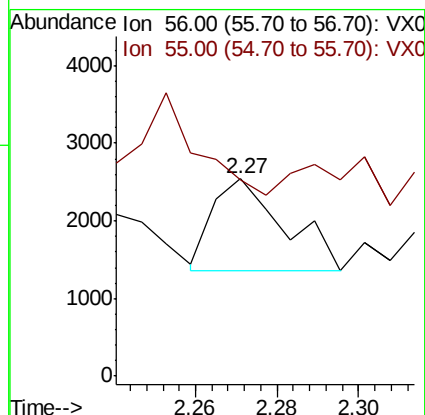
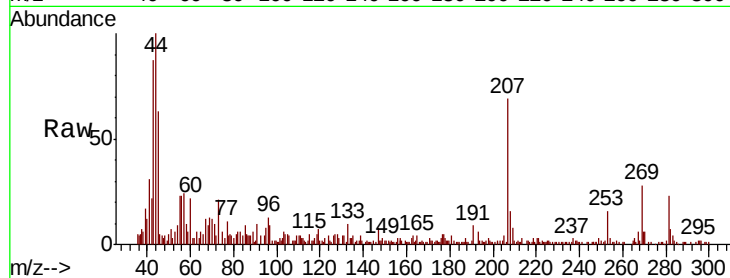
TP-2-S

Tot Ion: 56 Resp: 1461

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#14

Allyl chloride

Concen: 0.395 ug/l

RT: 2.69 min Scan# 296

Delta R.T. -0.01 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

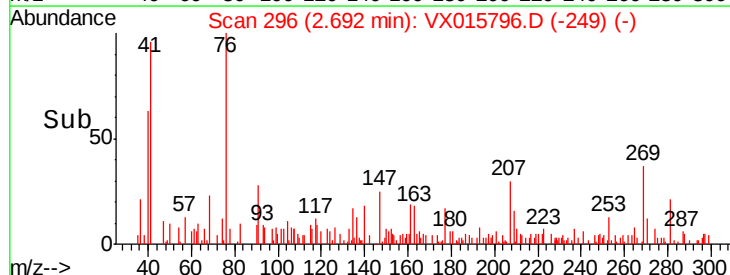
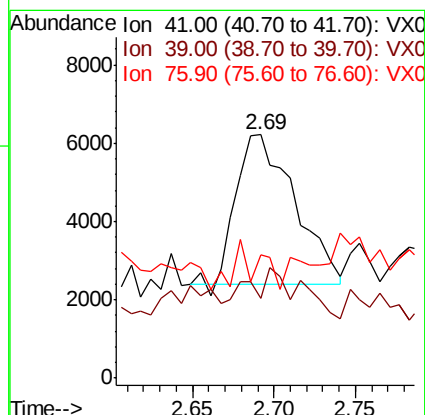
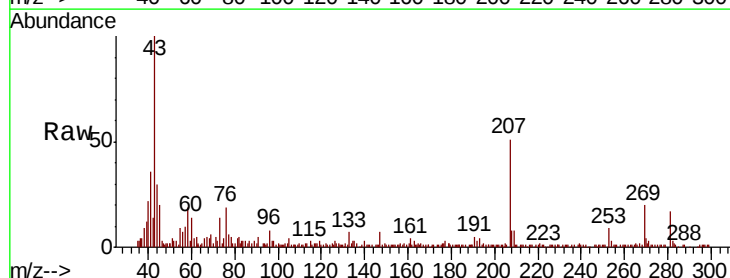
Tgt Ion: 41 Resp: 9541

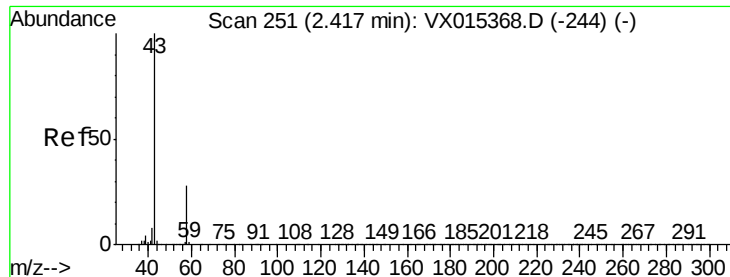
Ion Ratio Lower Upper

41 100

39 5.6 51.4 77.0#

76 0.0 21.8 32.8#





#16

Acetone

Concen: 22.870 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

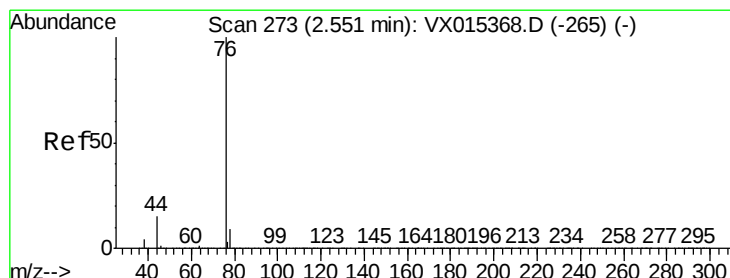
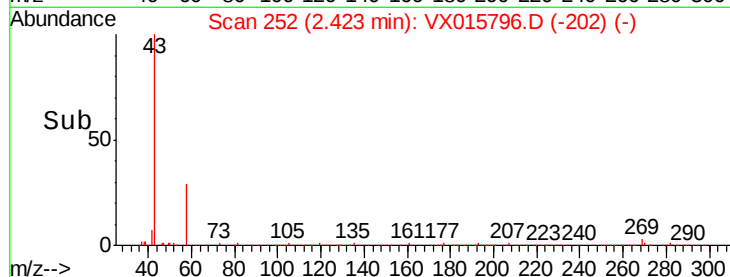
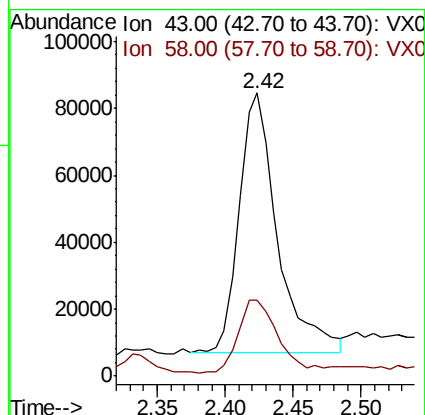
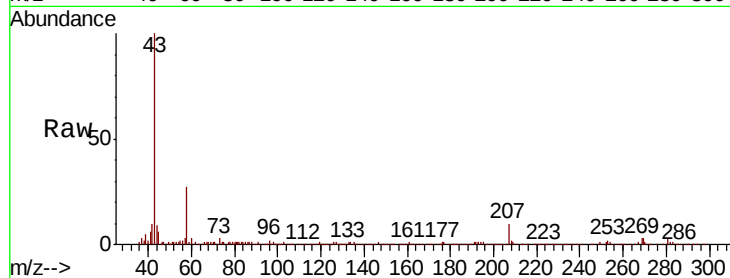
TP-2-S

Tot Ion: 43 Resp: 151854

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1



#17

Carbon Disulfide

Concen: 2.898 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015796.D

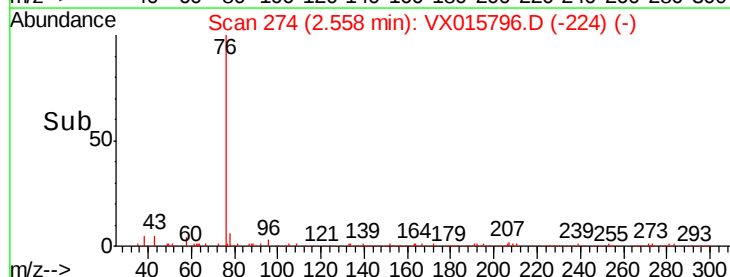
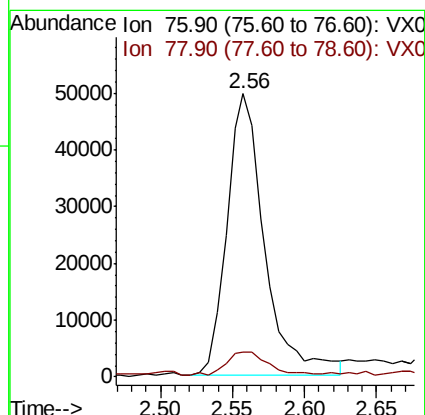
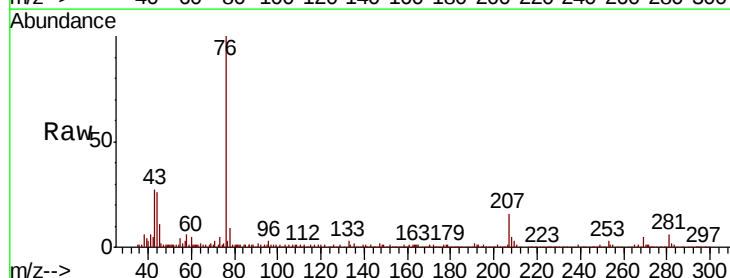
Acq: 21 Apr 2020 15:53

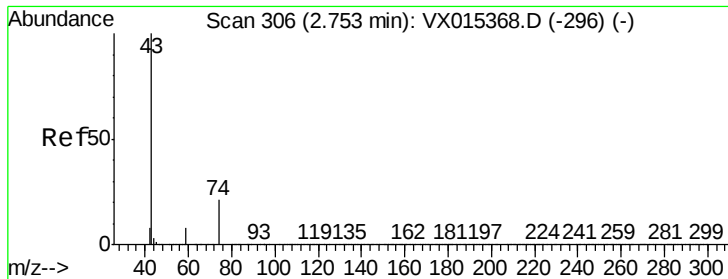
Tgt Ion: 76 Resp: 91446

Ion Ratio Lower Upper

76 100

78 8.0 7.1 10.7

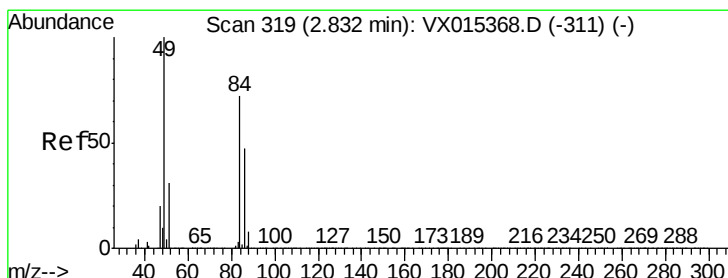
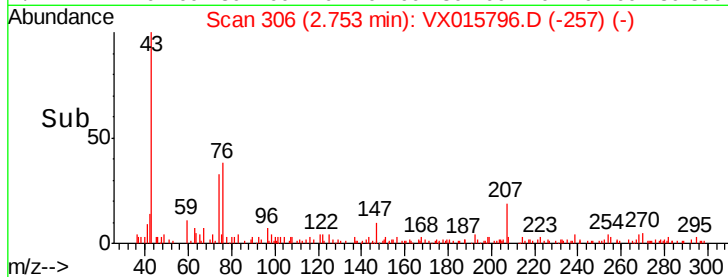
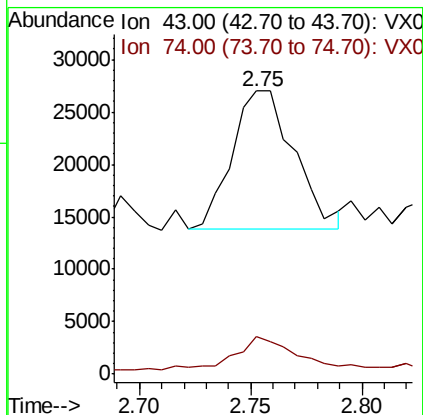
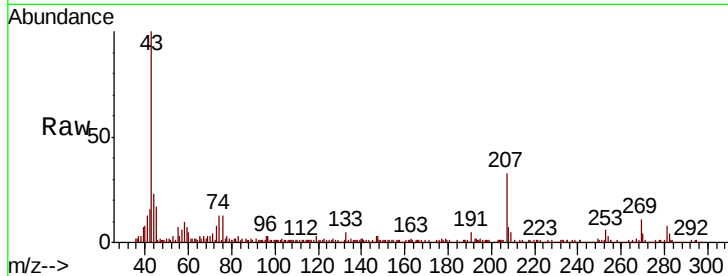




#18
Methyl Acetate
Concen: 1.523 ug/l
RT: 2.75 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

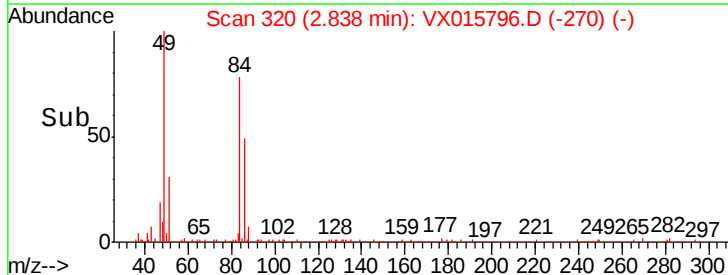
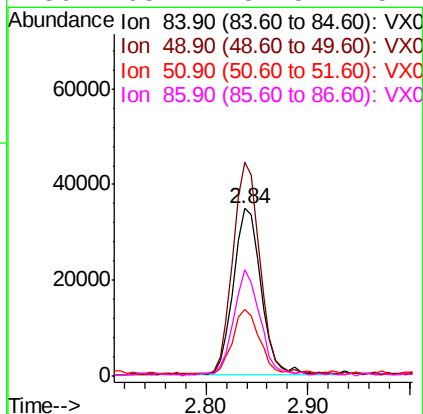
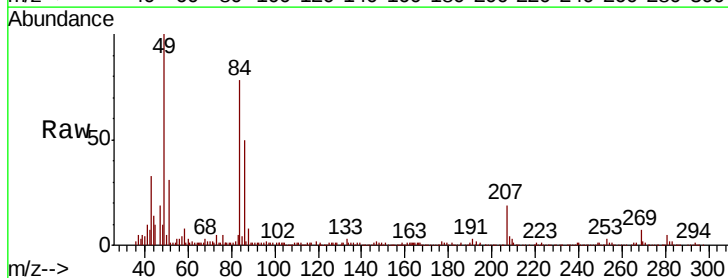
Instrument :
MSVOA_X
ClientSampled :
TP-2-S

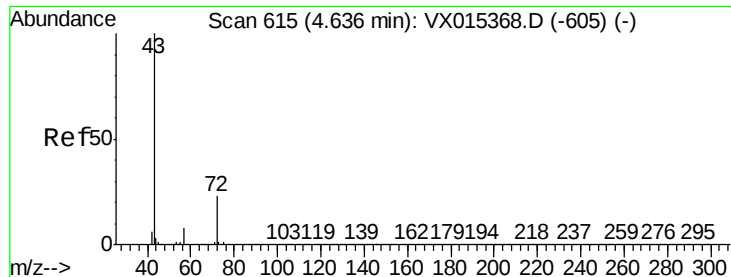
Tot Ion: 43 Resp: 25807
Ion Ratio Lower Upper
43 100
74 29.6 16.5 24.7#



#20
Methylene Chloride
Concen: 5.332 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

Tgt Ion: 84 Resp: 66123
Ion Ratio Lower Upper
84 100
49 127.5 111.3 166.9
51 38.6 34.0 51.0
86 63.1 52.5 78.7





#25

2-Butanone

Concen: 3.219 ug/l

RT: 4.64 min Scan# 616

Delta R.T. 0.01 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

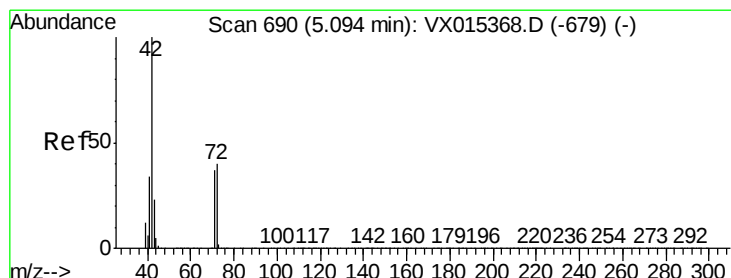
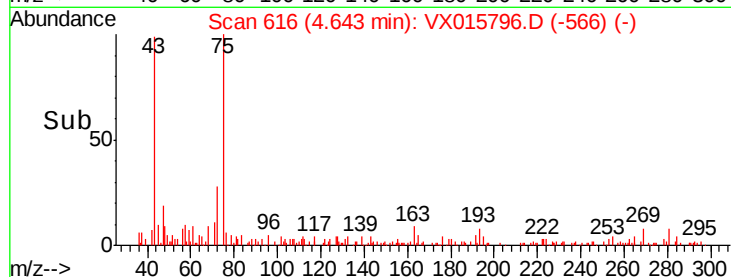
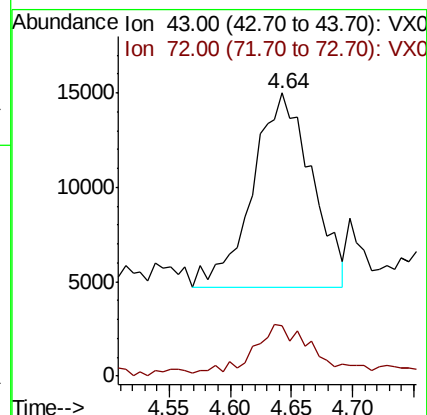
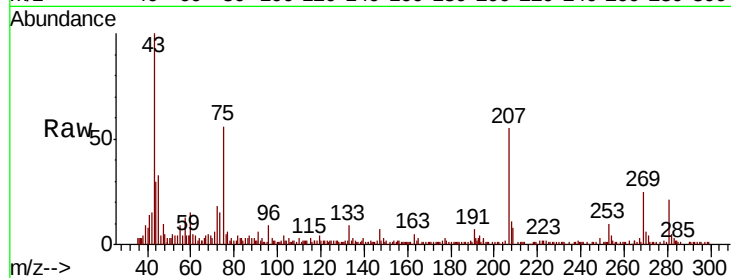
TP-2-S

Tot Ion: 43 Resp: 34374

Ion Ratio Lower Upper

43 100

72 24.6 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 5.09 min Scan# 689

Delta R.T. -0.01 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

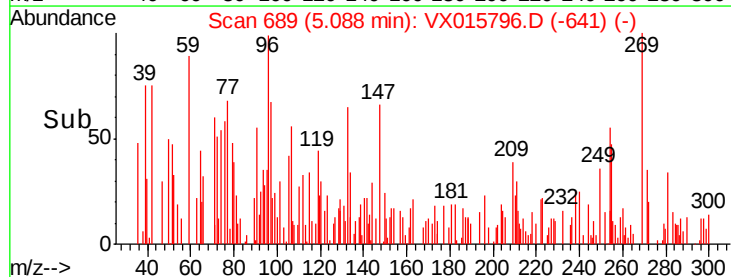
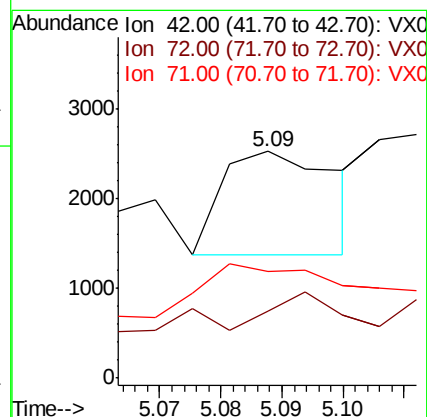
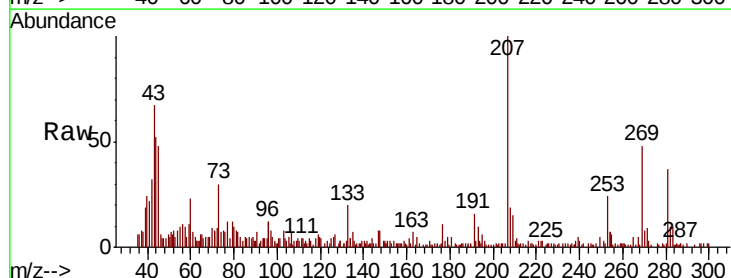
Tgt Ion: 42 Resp: 1478

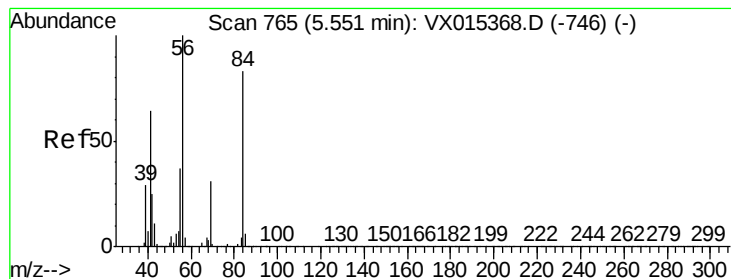
Ion Ratio Lower Upper

42 100

72 143.9 31.7 47.5#

71 193.8 29.6 44.4#





#31

Cvclohexane

Concen: 1.123 ug/l

RT: 5.63 min Scan# 778

Delta R.T. 0.08 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

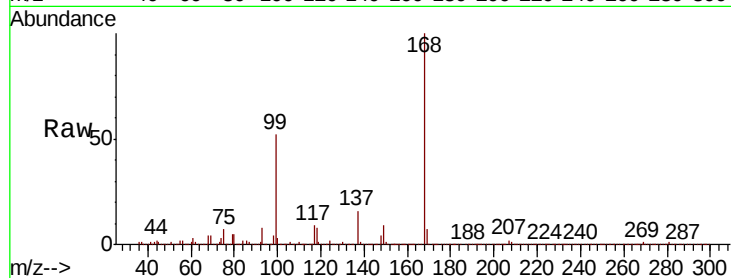
Tot Ion: 56 Resp: 21978

Ion Ratio Lower Upper

56 100

69 183.9 24.6 36.8#

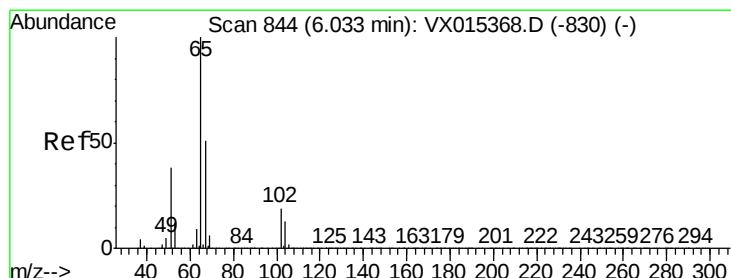
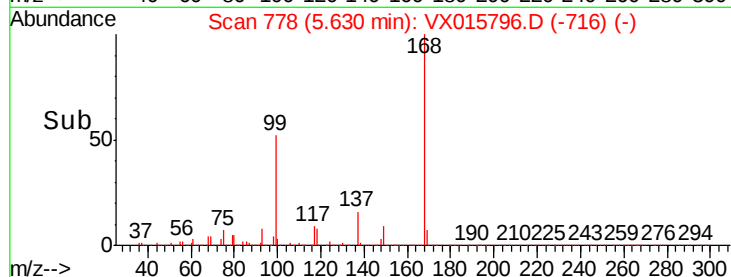
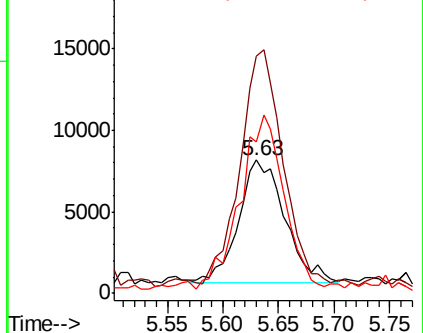
84 116.9 66.1 99.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 38.968 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015796.D

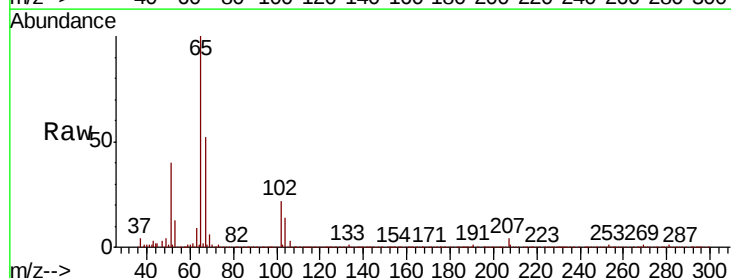
Acq: 21 Apr 2020 15:53

Tgt Ion: 65 Resp: 602256

Ion Ratio Lower Upper

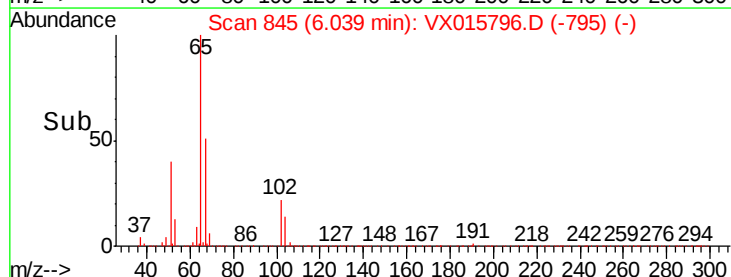
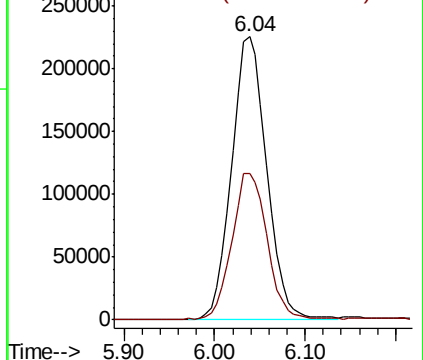
65 100

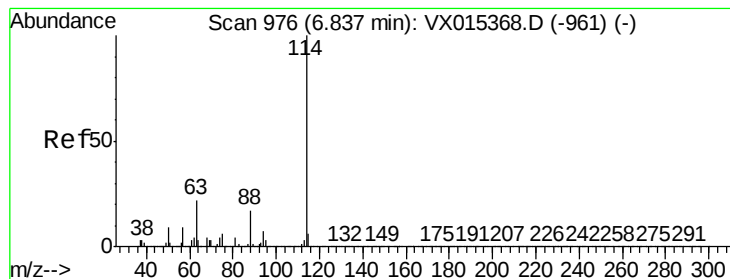
67 51.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. 0.00 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

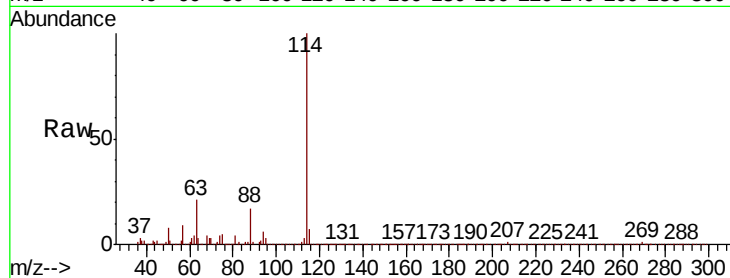
Tot Ion:114 Resp: 1662856

Ion Ratio Lower Upper

114 100

63 20.9 0.0 44.2

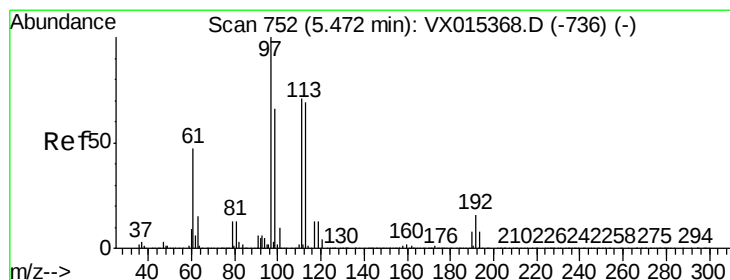
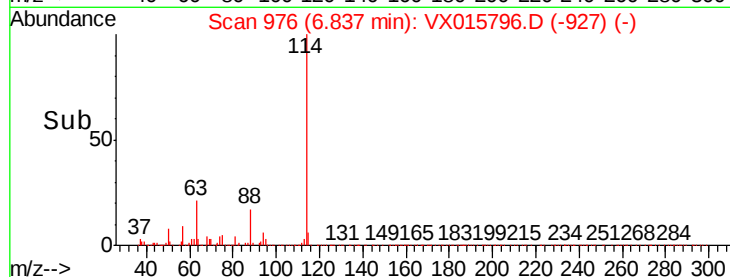
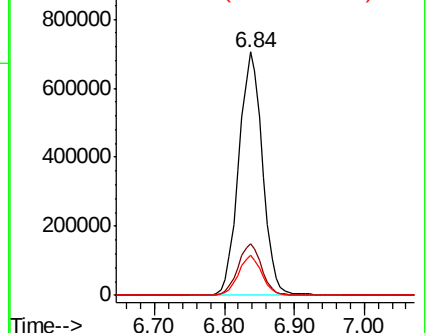
88 16.5 0.0 33.8



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



#35

Dibromofluoromethane

Concen: 45.728 ug/l

RT: 5.47 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

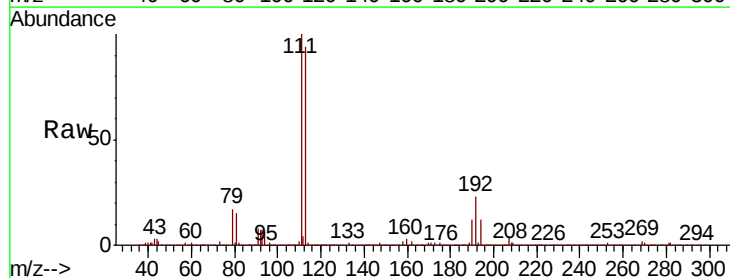
Tgt Ion:113 Resp: 486061

Ion Ratio Lower Upper

113 100

111 104.7 81.5 122.3

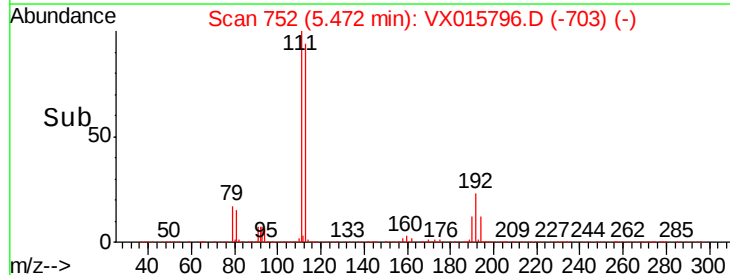
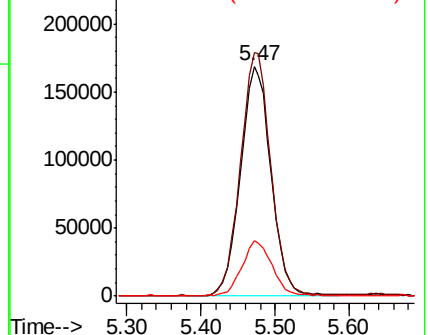
192 24.2 17.8 26.6

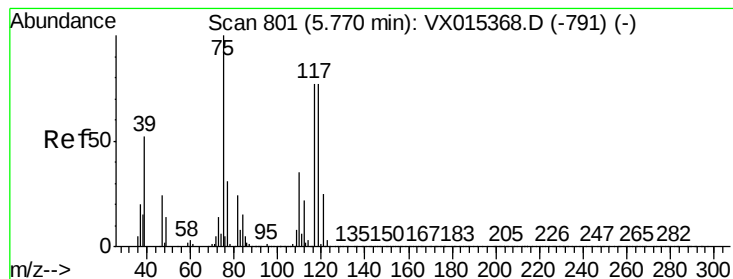


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.848 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

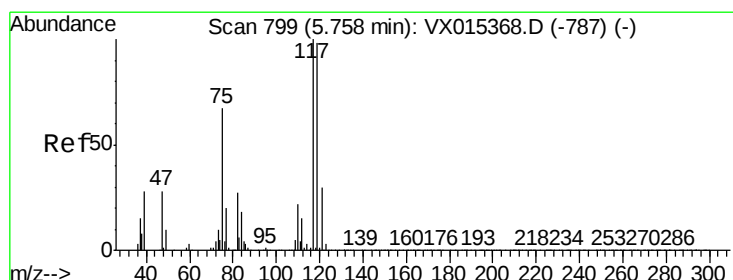
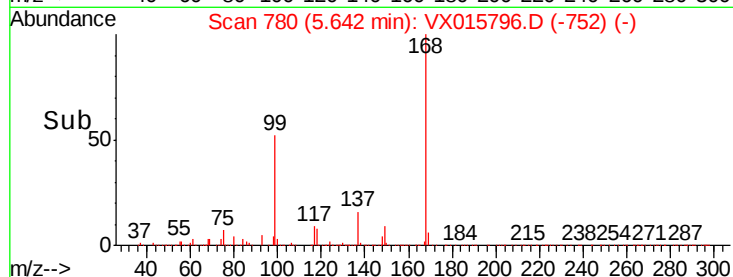
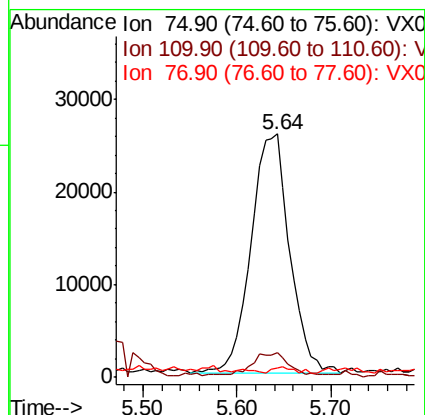
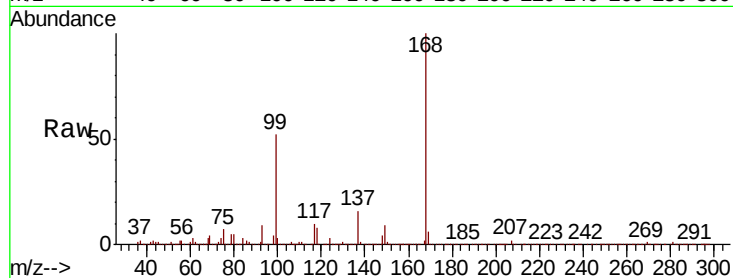
Tot Ion: 75 Resp: 74279

Ion Ratio Lower Upper

75 100

110 9.9 17.1 51.3#

77 1.6 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.807 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

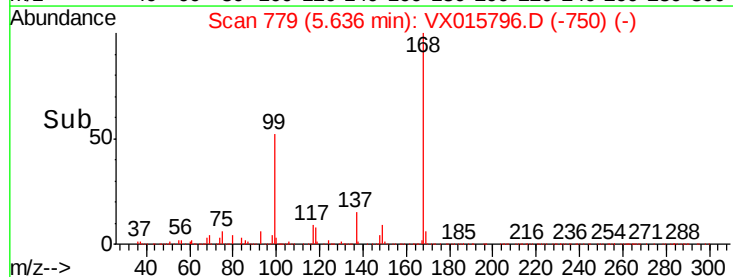
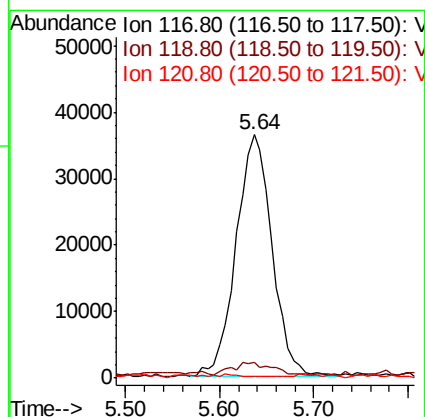
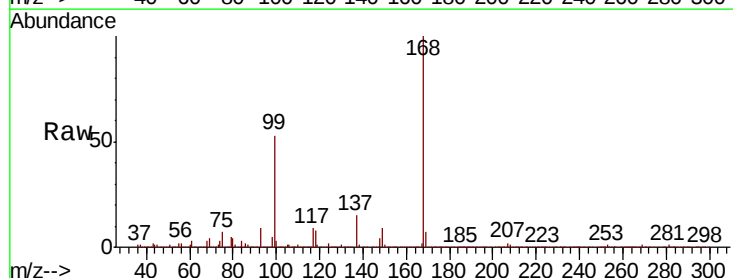
Tgt Ion:117 Resp: 96365

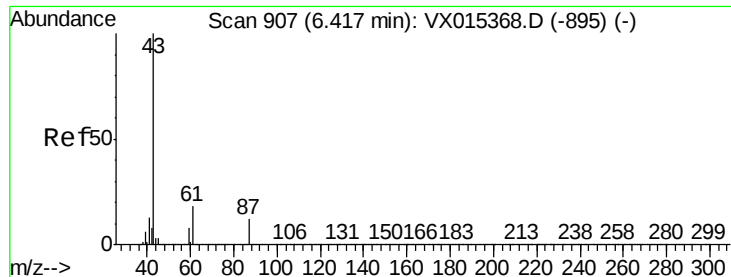
Ion Ratio Lower Upper

117 100

119 5.2 78.0 117.0#

121 0.0 23.8 35.8#



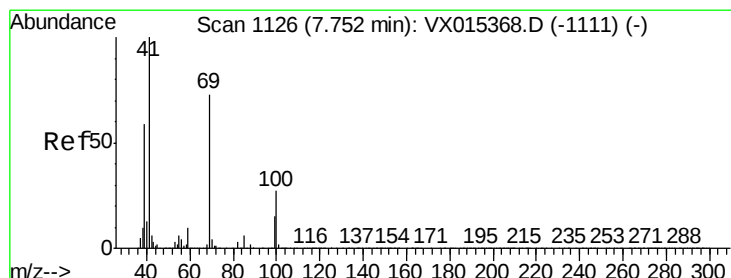
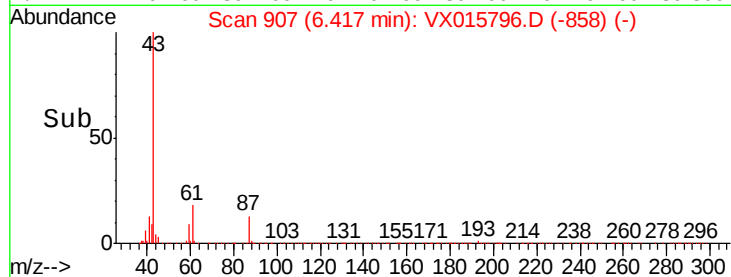
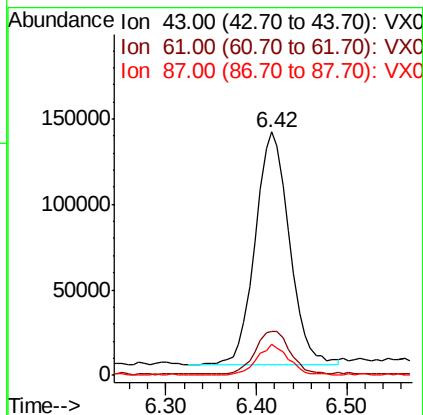
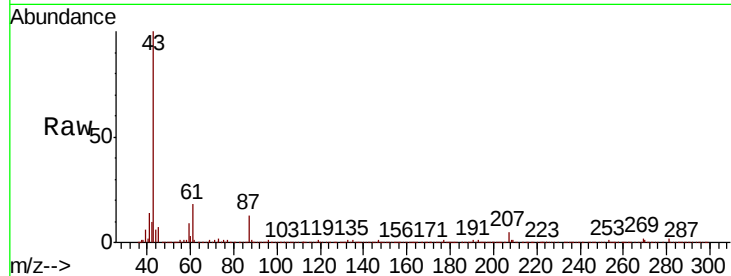


#43

Isopropyl Acetate
 Concen: 10.613 ug/l
 RT: 6.42 min Scan# 907
 Delta R.T. 0.00 min
 Lab File: VX015796.D
 Acq: 21 Apr 2020 15:53

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-2-S

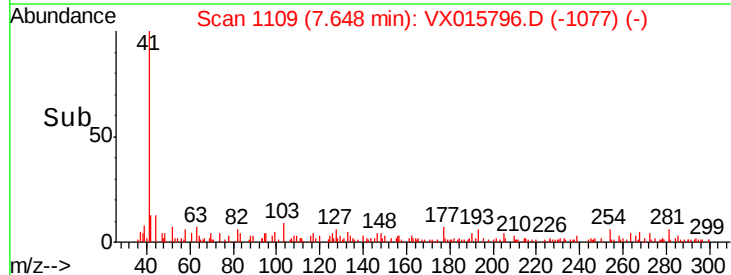
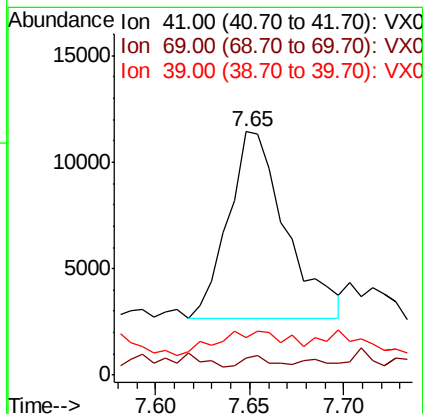
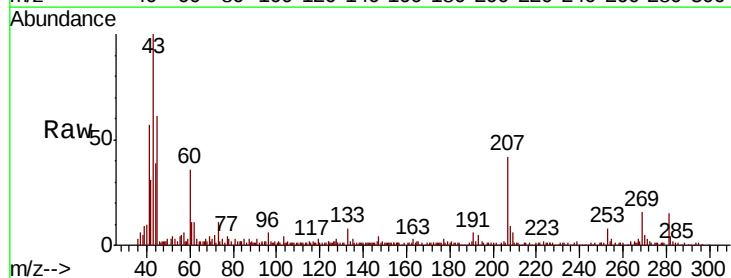
Tot Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.8	22.2
87	11.9	9.4	14.0

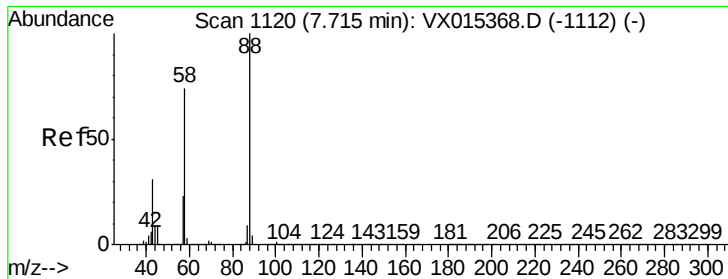


#48

Methyl methacrylate
 Concen: 1.106 ug/l
 RT: 7.65 min Scan# 1109
 Delta R.T. -0.10 min
 Lab File: VX015796.D
 Acq: 21 Apr 2020 15:53

Tgt Ion	Ratio	Lower	Upper
41	100		
69	3.0	56.7	85.1#
39	0.0	46.5	69.7#





#49

1,4-Dioxane

Concen: 12.772 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.02 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

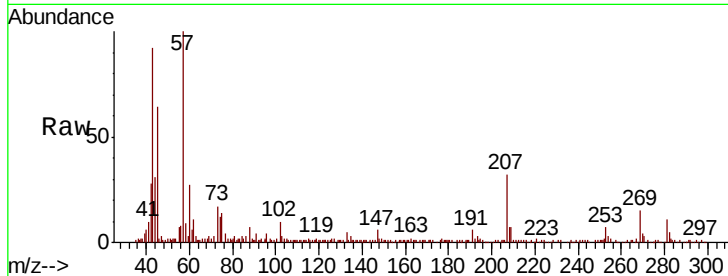
Tot Ion: 88 Resp: 4008

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

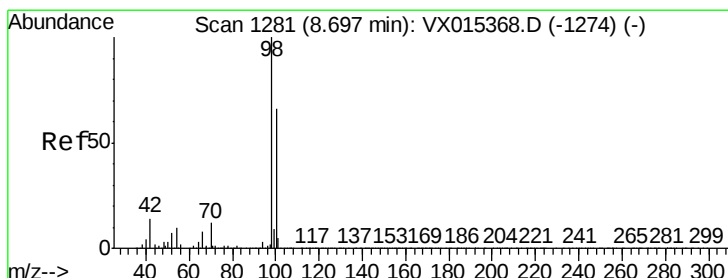
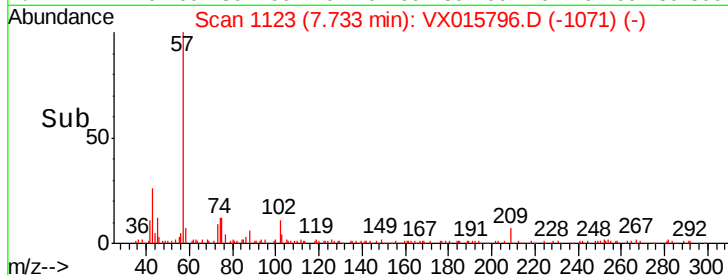
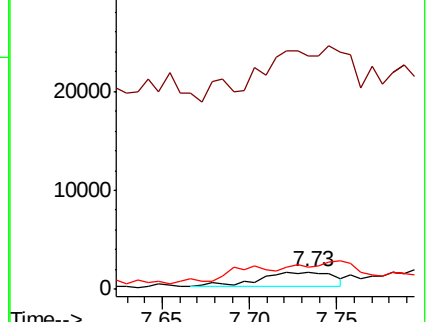
58 84.6 60.6 90.8



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: 50.058 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015796.D

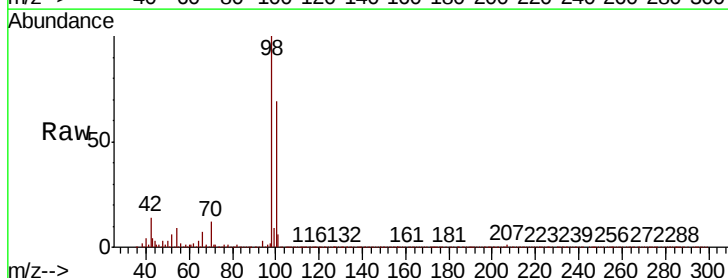
Acq: 21 Apr 2020 15:53

Tgt Ion: 98 Resp: 1959001

Ion Ratio Lower Upper

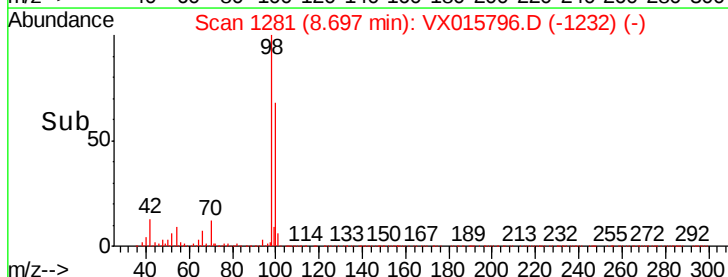
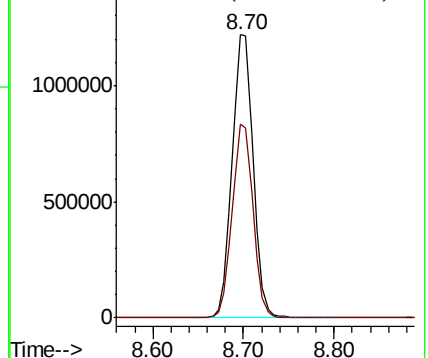
98 100

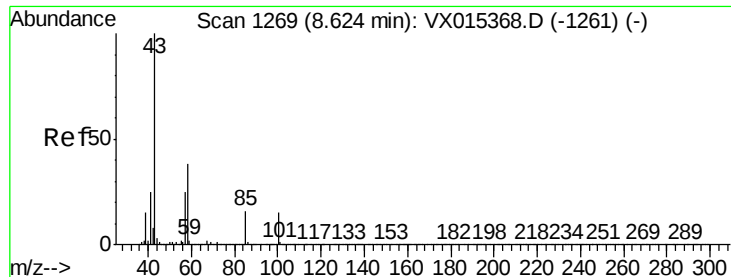
100 67.8 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 20.911 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

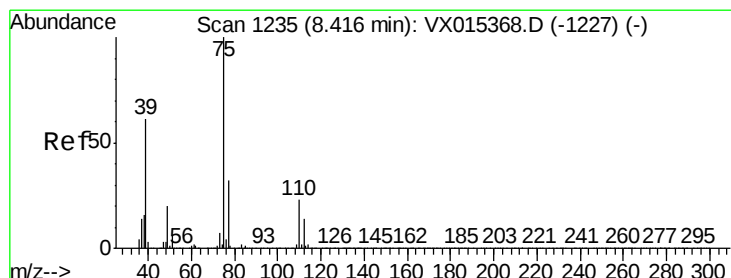
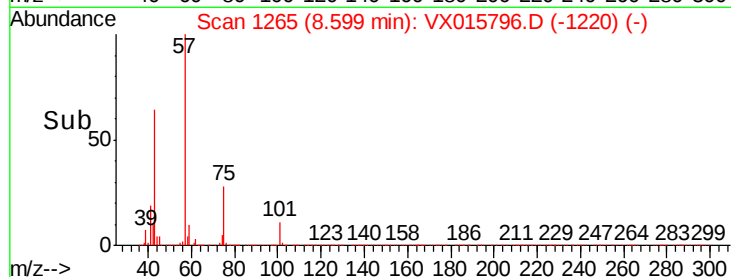
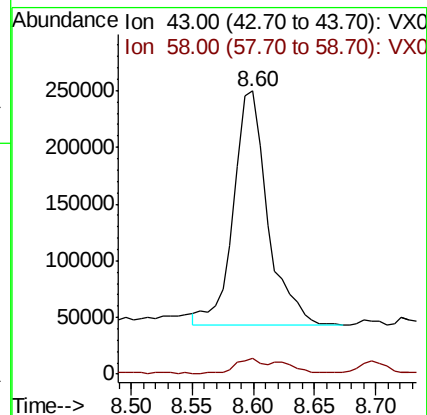
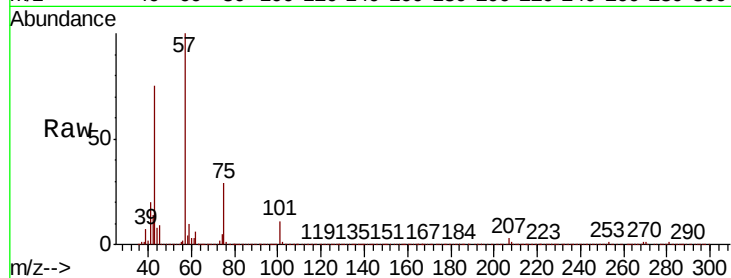
TP-2-S

Tot Ion: 43 Resp: 399102

Ion Ratio Lower Upper

43 100

58 5.1 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 7.072 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

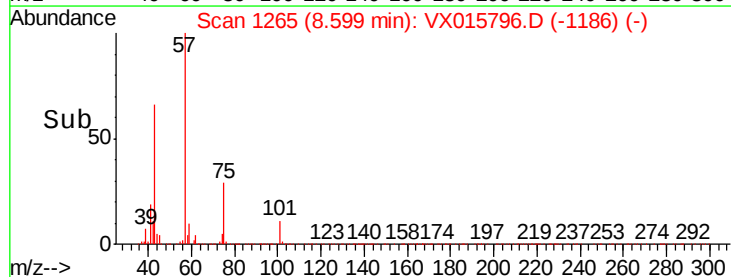
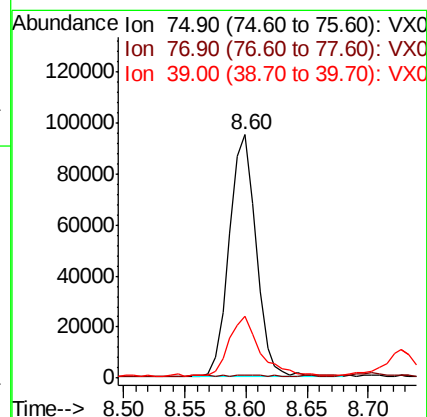
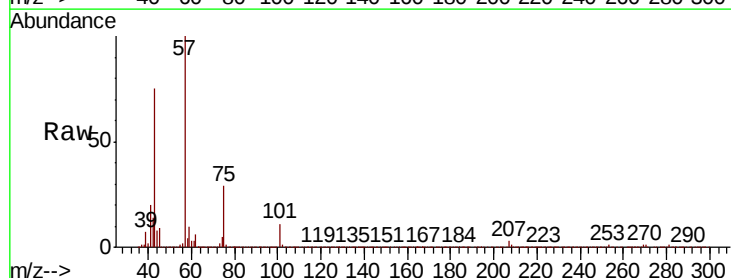
Tgt Ion: 75 Resp: 144997

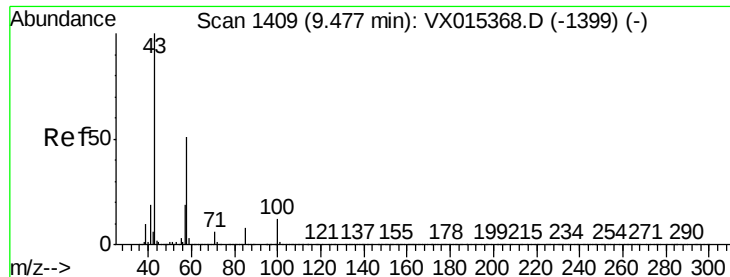
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 24.3 49.0 73.4#

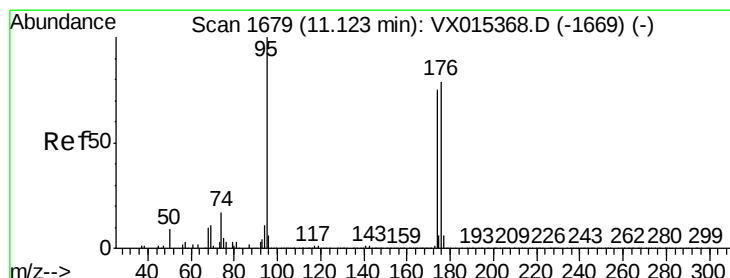
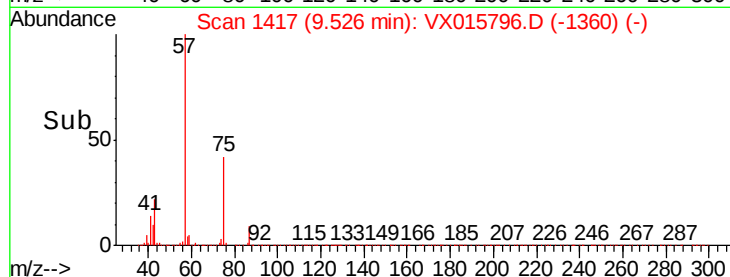
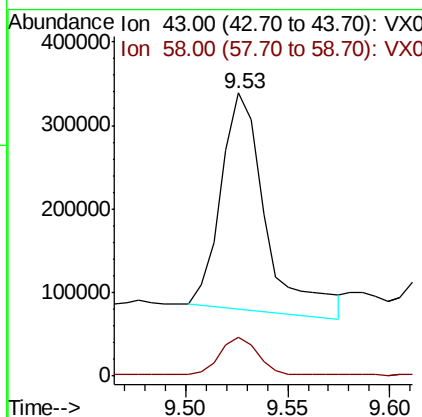
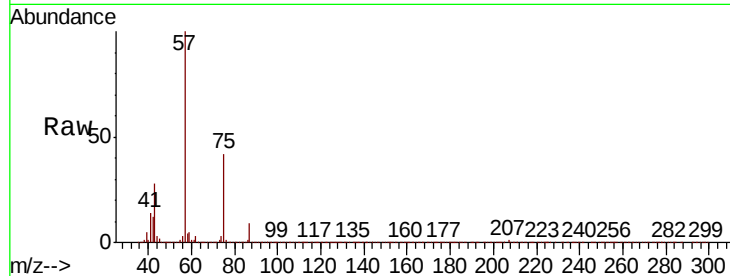




#59
2-Hexanone
Concen: 27.233 ug/l
RT: 9.53 min Scan# 1417
Delta R.T. 0.05 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

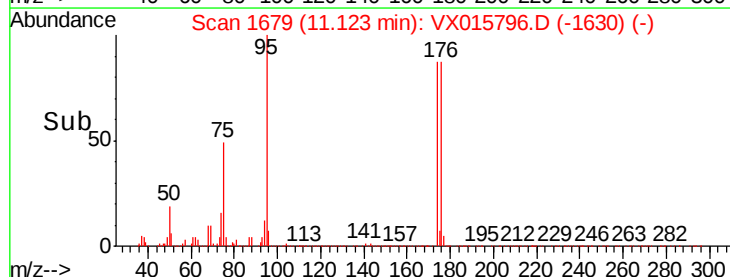
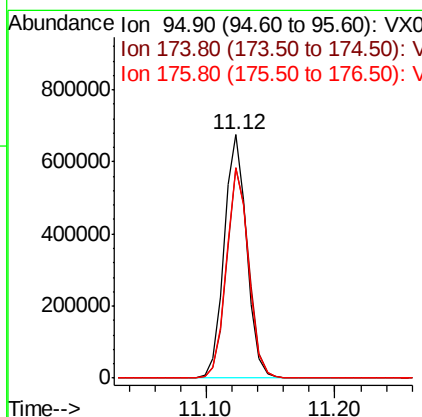
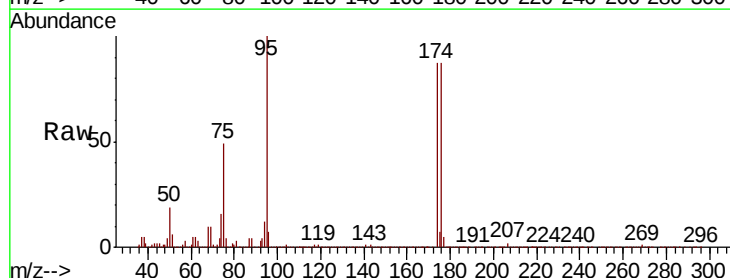
Instrument :
MSVOA_X
ClientSampleId :
TP-2-S

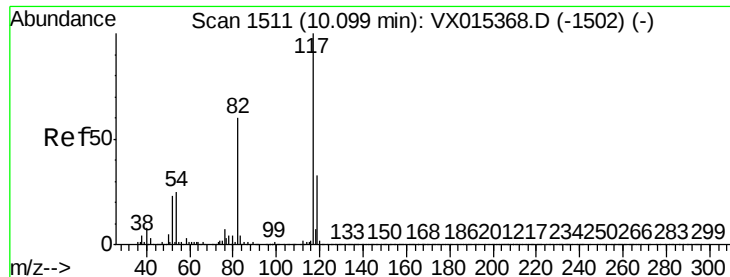
Tot Ion: 43 Resp: 392402
Ion Ratio Lower Upper
43 100
58 16.0 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 52.312 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

Tgt Ion: 95 Resp: 831990
Ion Ratio Lower Upper
95 100
174 85.6 0.0 158.6
176 85.5 0.0 159.0

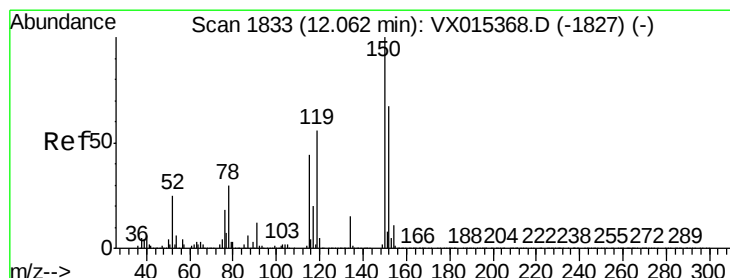
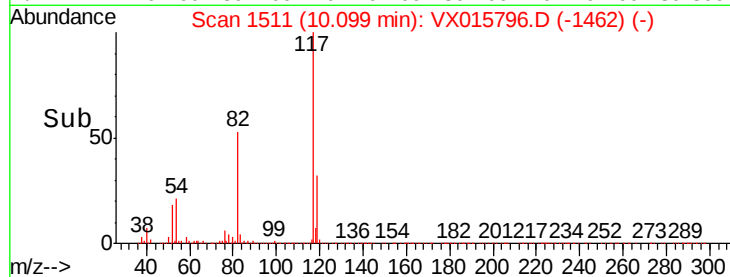
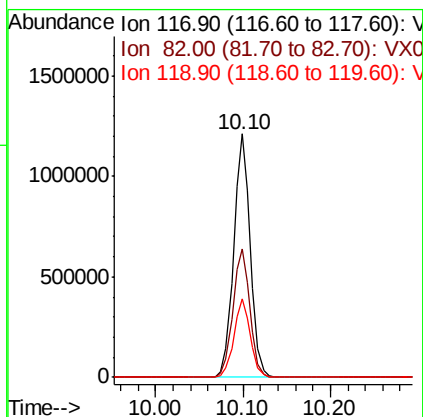
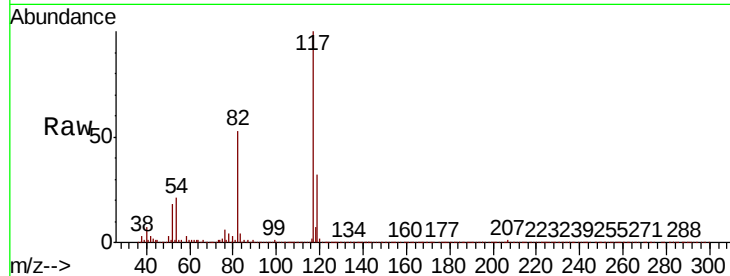




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

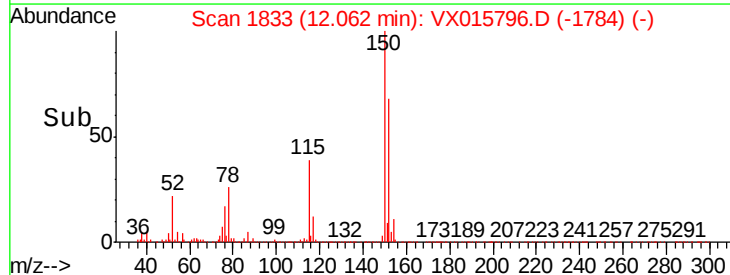
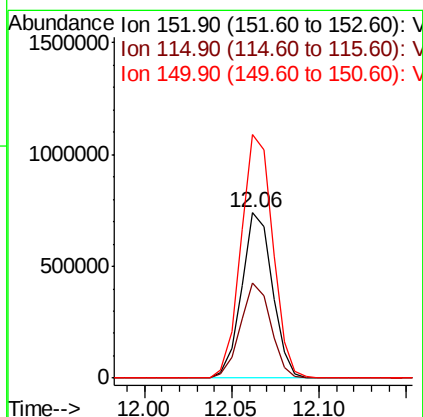
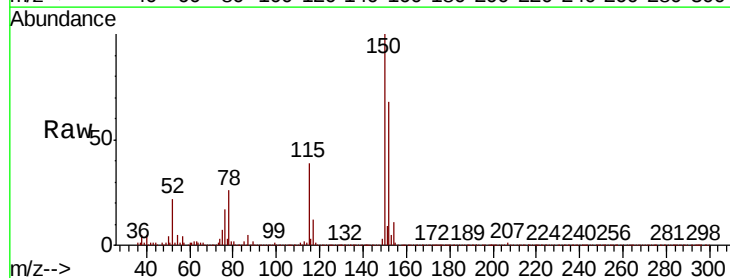
Instrument :
MSVOA_X
ClientSampleId :
TP-2-S

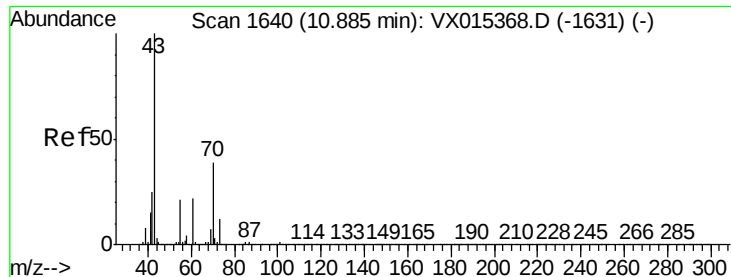
Tot Ion:117 Resp: 1601448
Ion Ratio Lower Upper
117 100
82 52.7 47.8 71.8
119 32.0 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015796.D
Acq: 21 Apr 2020 15:53

Tgt Ion:152 Resp: 908459
Ion Ratio Lower Upper
152 100
115 56.8 39.0 116.9
150 151.7 0.0 340.8





#74

N-amvl acetate

Concen: 1.766 ug/l

RT: 10.81 min Scan# 1627

Delta R.T. -0.08 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

Tot Ion: 43 Resp: 58478

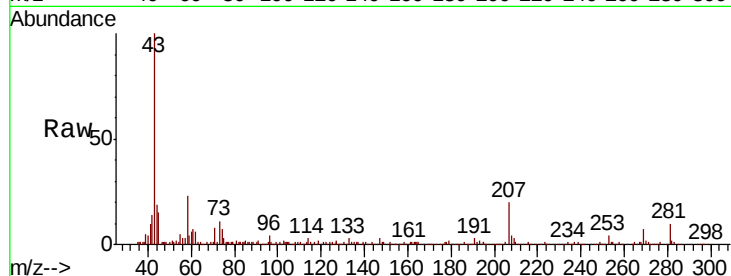
Ion Ratio Lower Upper

43 100

70 0.0 30.2 45.4#

55 2.9 16.8 25.2#

61 0.0 18.2 27.2#

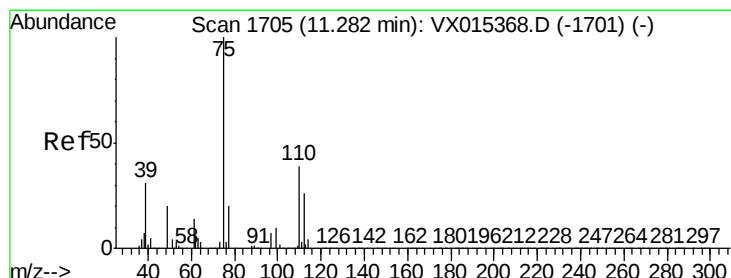
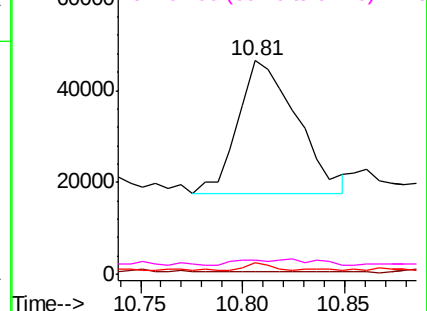
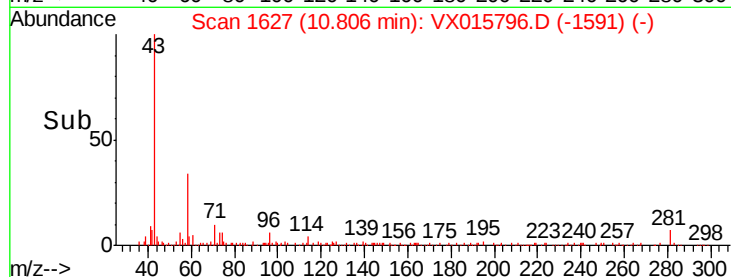


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.996 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015796.D

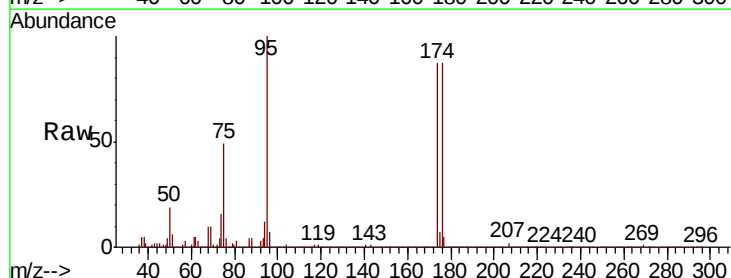
Acq: 21 Apr 2020 15:53

Tgt Ion: 75 Resp: 410923

Ion Ratio Lower Upper

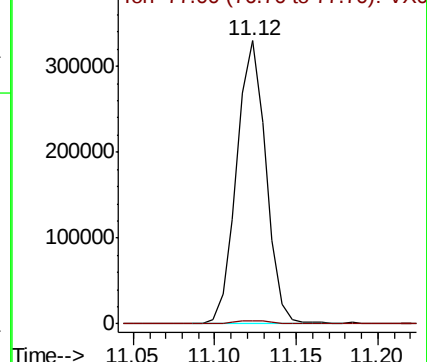
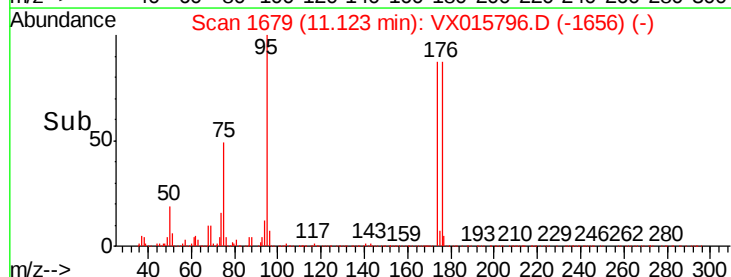
75 100

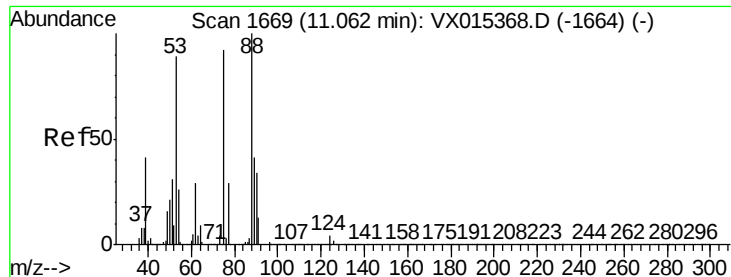
77 1.2 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.778 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015796.D

Acq: 21 Apr 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

TP-2-S

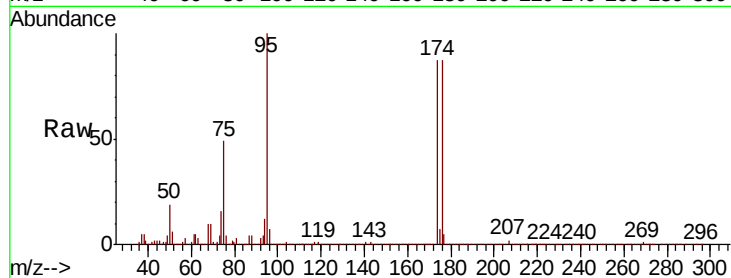
Tot Ion: 75 Resp: 410923

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 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

