

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052020\
 Data File : VX016364.D
 Acq On : 20 May 2020 16:45
 Operator : JC/SP
 Sample : L2708-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

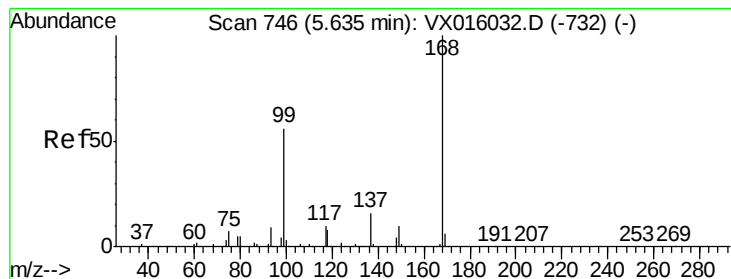
Quant Time: May 21 03:53:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	253302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	420779	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	415341	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	212749	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	149459	44.84	ug/l	0.00
Spiked Amount			Recovery	=	89.68%	
35) Dibromofluoromethane	5.47	113	124158	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	
50) Toluene-d8	8.70	98	519412	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	11.12	95	211710	54.19	ug/l	0.00
Spiked Amount			Recovery	=	108.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	2817	1.051	ug/l	96
4) Vinyl Chloride	1.39	62	3141	0.946	ug/l	99
11) Tert butyl alcohol	3.01	59	473	0.561	ug/l #	72
13) Acrolein	2.25	56	117	0.222	ug/l #	1
15) Acrylonitrile	3.12	53	369	0.211	ug/l #	72
16) Acetone	2.42	43	2073	1.394	ug/l #	83
17) Carbon Disulfide	2.55	76	3769	0.271	ug/l	97
21) trans-1,2-Dichloroethene	3.15	96	35700	12.167	ug/l	93
25) 2-Butanone	4.65	43	2635	1.099	ug/l	91
27) cis-1,2-Dichloroethene	4.57	96	2700	0.842	ug/l	73
29) Tetrahydrofuran	5.10	42	1352	0.851	ug/l #	85
31) Cyclohexane	5.63	56	4665	1.007	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18290	4.416	ug/l #	48
38) Carbon Tetrachloride	5.64	117	24408	5.798	ug/l #	13
44) Trichloroethene	7.20	130	1550	0.360	ug/l	81
52) Toluene	8.77	92	4218	0.558	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.13	83	126	2.093	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	100240	20.763	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	100240	49.480	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

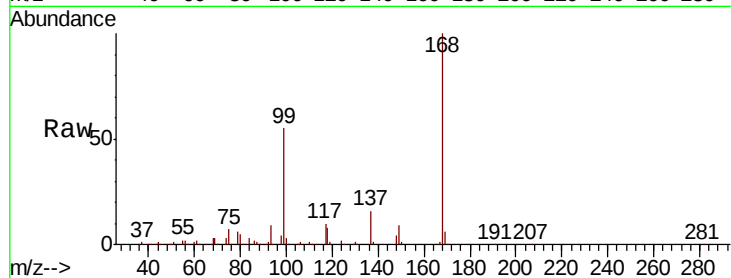
ClientSampleId :

Tot Ion:168 Resp: 253302

Ion Ratio Lower Upper

168 100

99 55.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

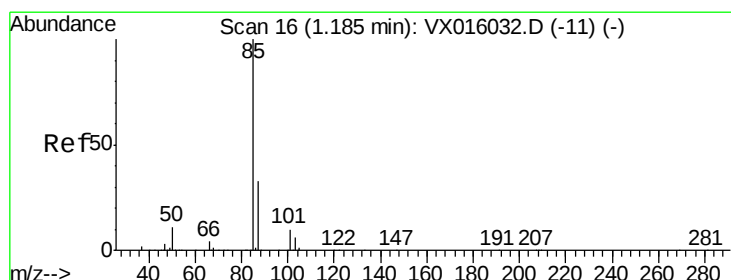
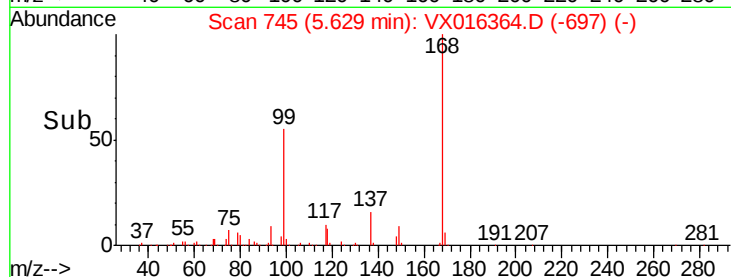
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.051 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016364.D

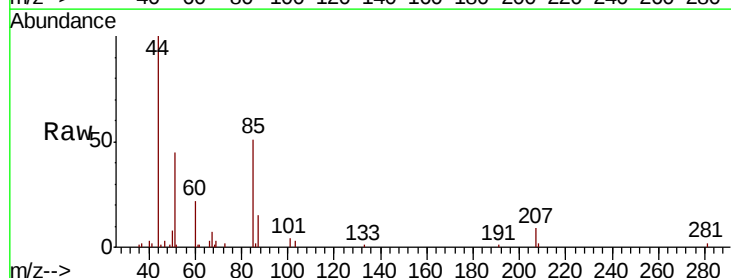
Acq: 20 May 2020 16:45

Tgt Ion: 85 Resp: 2817

Ion Ratio Lower Upper

85 100

87 30.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

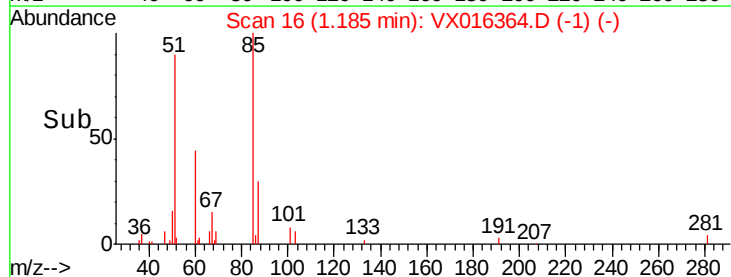
3000

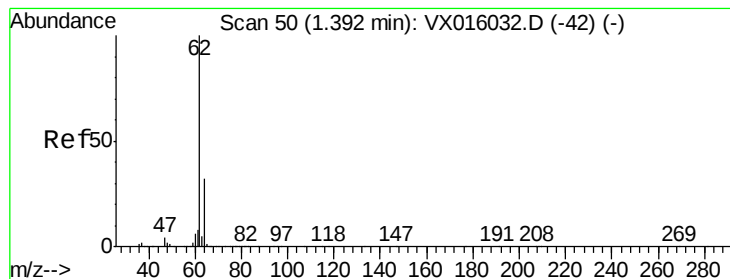
2000

1000

0

Time-->





#4

Vinyl Chloride

Concen: 0.946 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

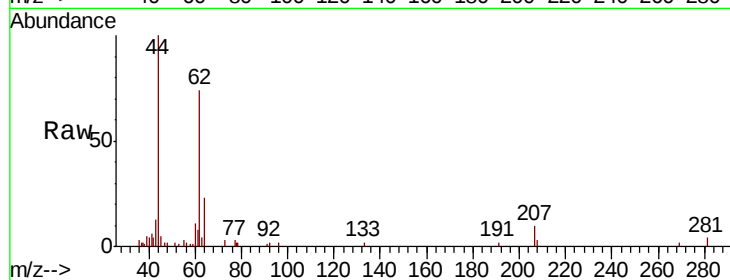
ClientSampleId :

Tot Ion: 62 Resp: 3141

Ion Ratio Lower Upper

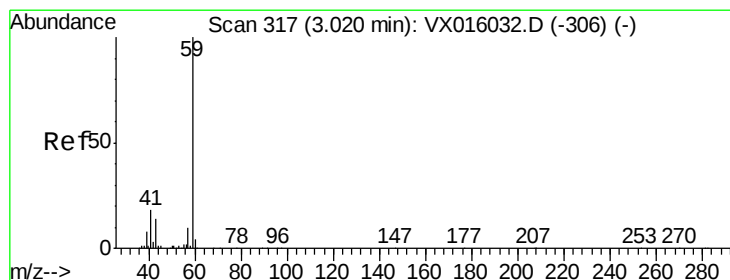
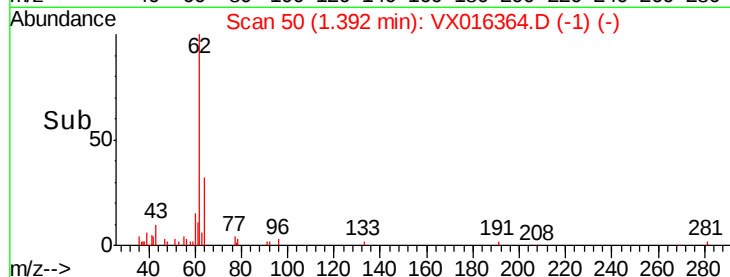
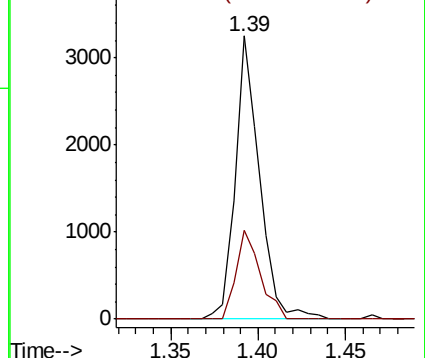
62 100

64 31.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 0.561 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016364.D

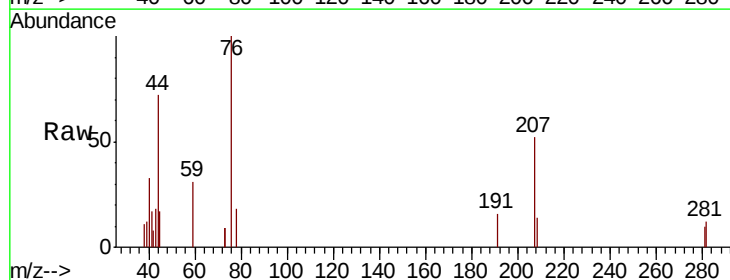
Acq: 20 May 2020 16:45

Tgt Ion: 59 Resp: 473

Ion Ratio Lower Upper

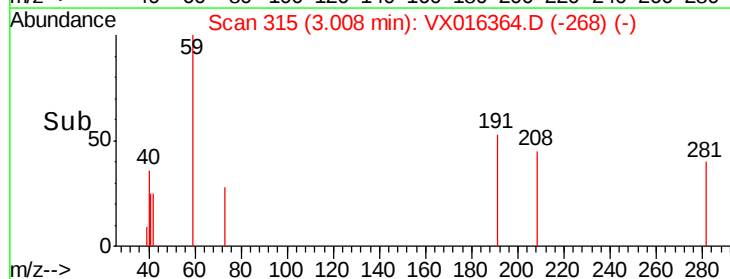
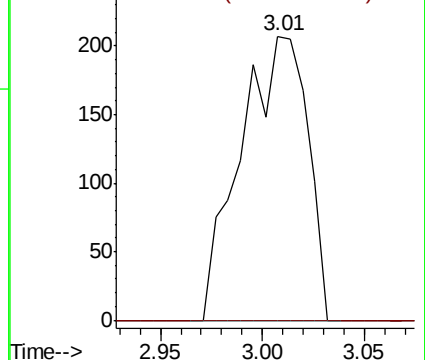
59 100

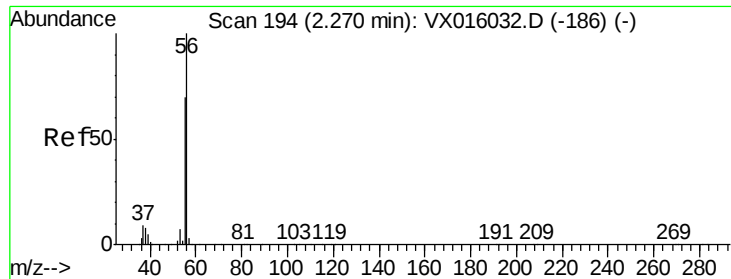
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.222 ug/l

RT: 2.25 min Scan# 191

Delta R.T. -0.02 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

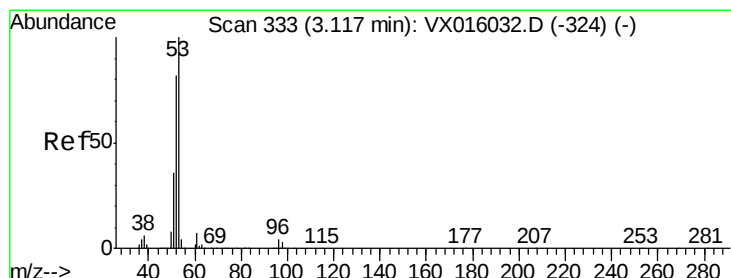
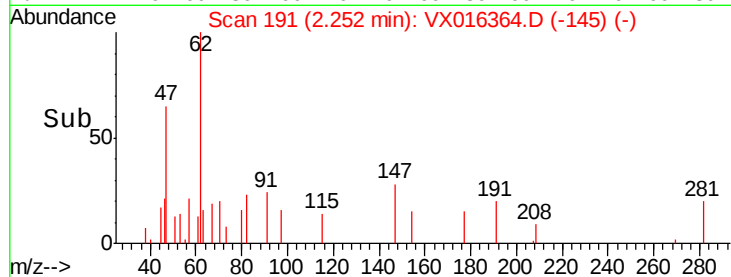
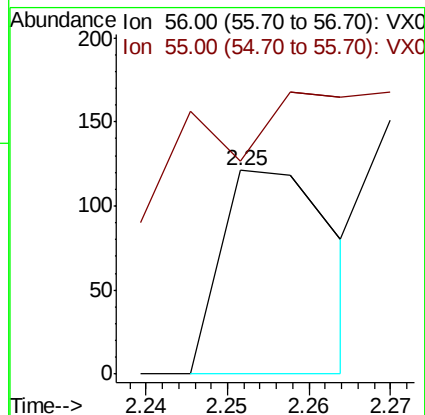
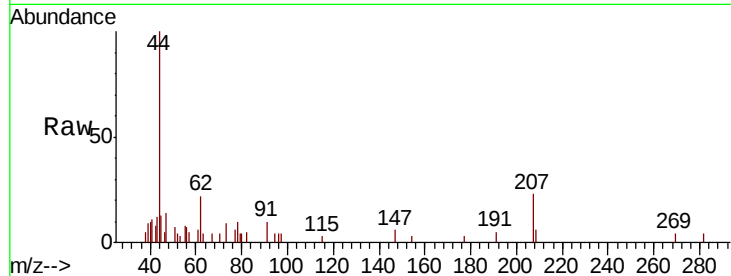
ClientSampleId :

Tot Ion: 56 Resp: 117

Ion Ratio Lower Upper

56 100

55 500.0 56.5 84.7#



#15

Acrylonitrile

Concen: 0.211 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

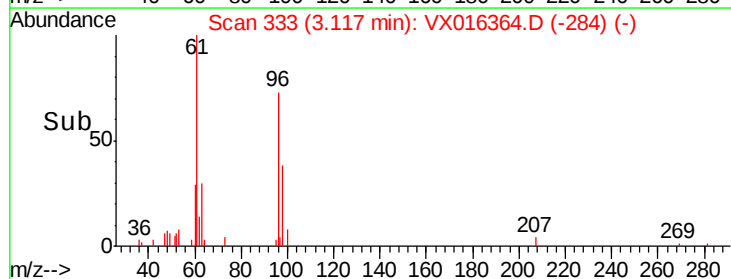
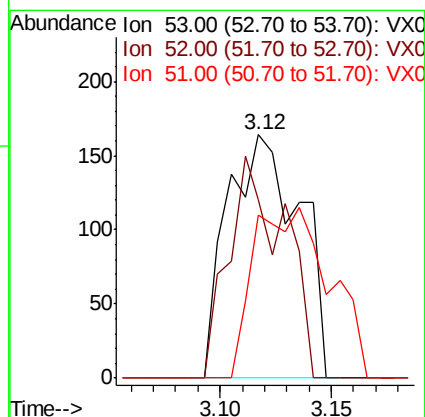
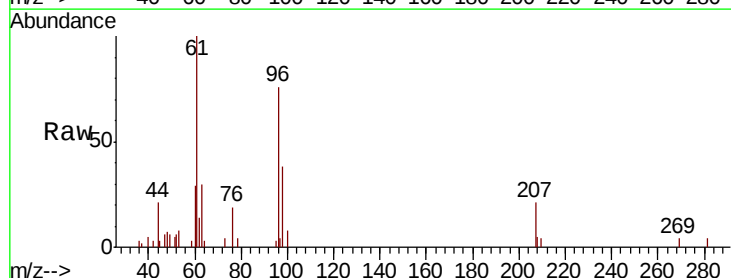
Tgt Ion: 53 Resp: 369

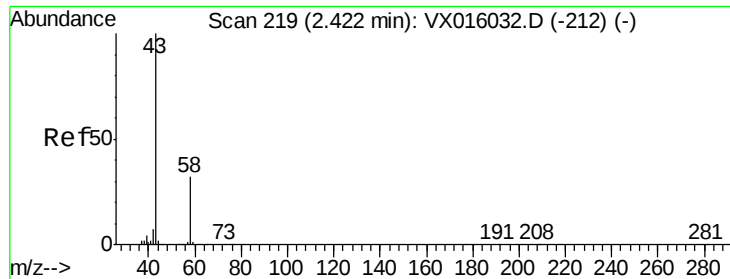
Ion Ratio Lower Upper

53 100

52 69.9 66.1 99.1

51 0.0 28.8 43.2#





#16

Acetone

Concen: 1.394 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

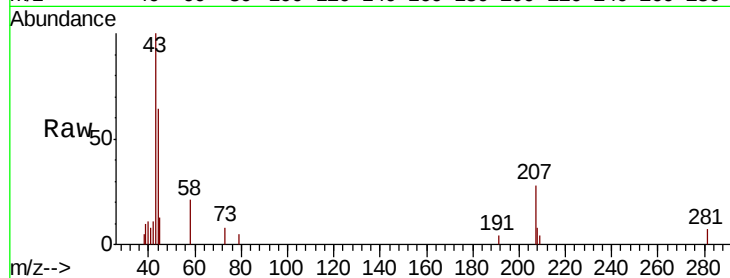
ClientSampleId :

Tot Ion: 43 Resp: 2073

Ion Ratio Lower Upper

43 100

58 22.5 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

1500

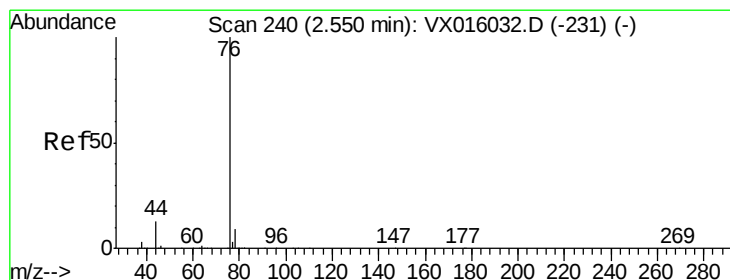
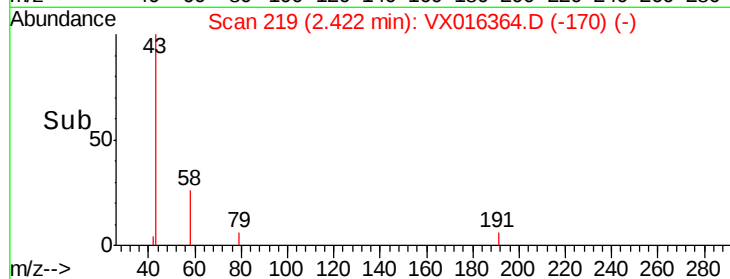
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.271 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX016364.D

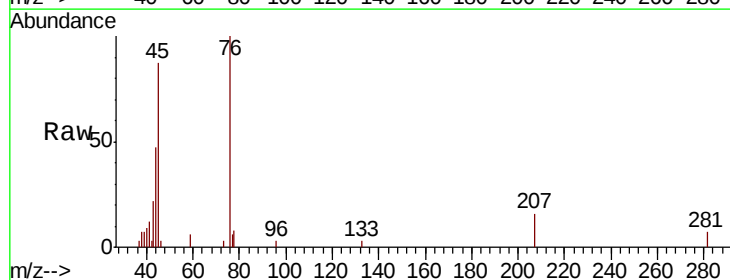
Acq: 20 May 2020 16:45

Tgt Ion: 76 Resp: 3769

Ion Ratio Lower Upper

76 100

78 8.2 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2500

2000

1500

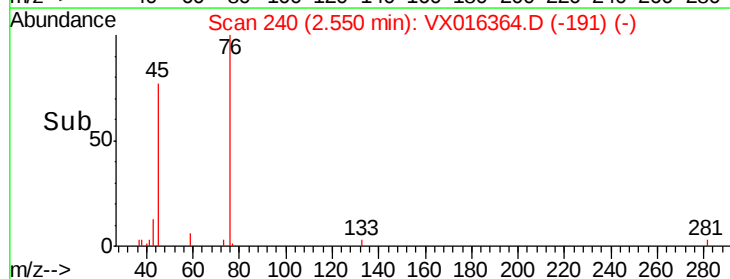
1000

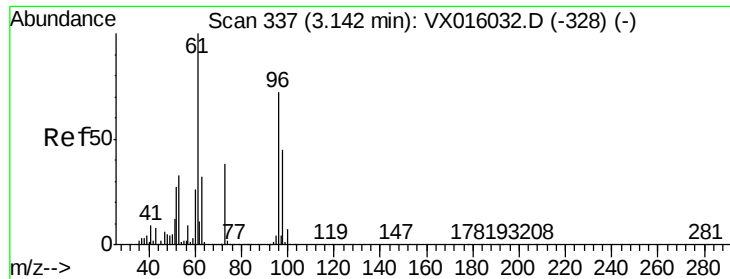
500

0

2.50 2.55 2.60

Time-->





#21

trans-1,2-Dichloroethene

Concen: 12.167 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

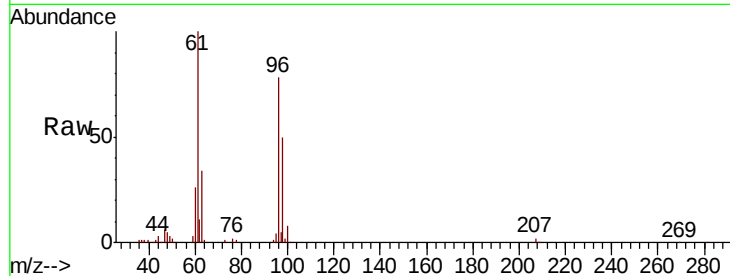
Tot Ion: 96 Resp: 35700

Ion Ratio Lower Upper

96 100

61 127.5 111.2 166.8

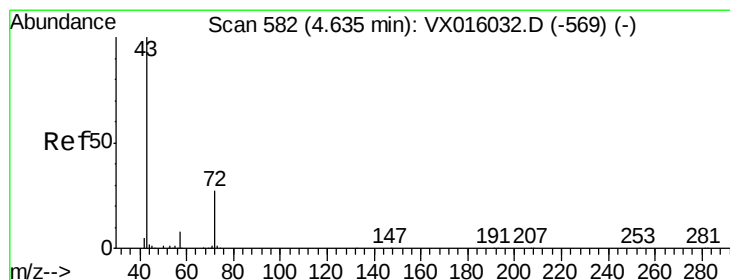
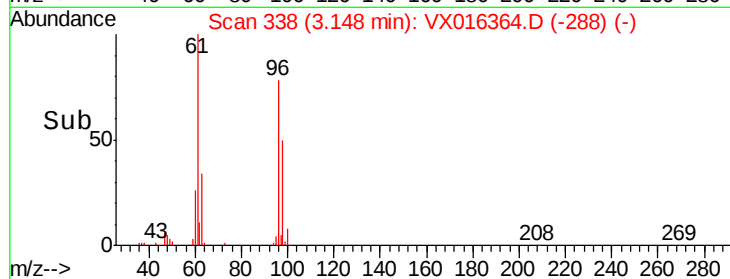
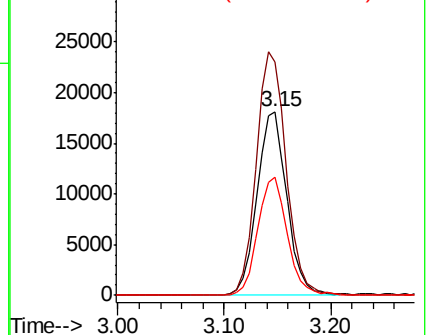
98 64.2 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 1.099 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016364.D

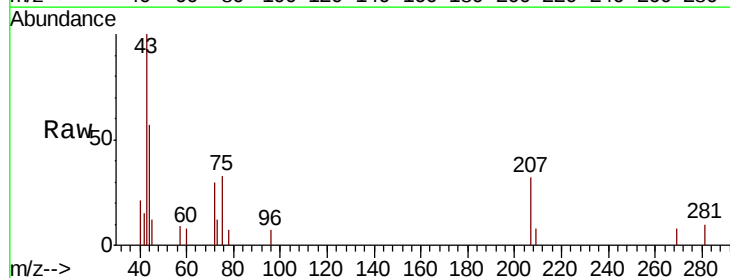
Acq: 20 May 2020 16:45

Tgt Ion: 43 Resp: 2635

Ion Ratio Lower Upper

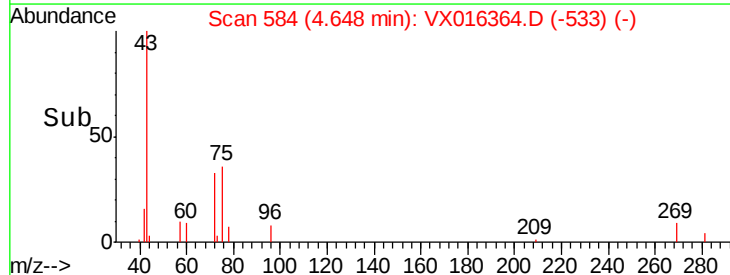
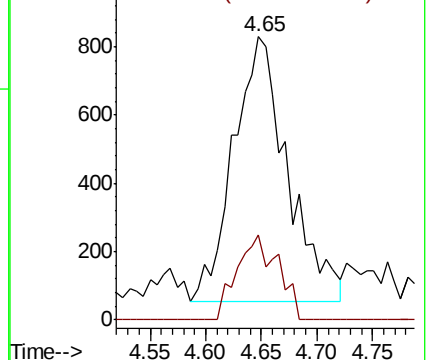
43 100

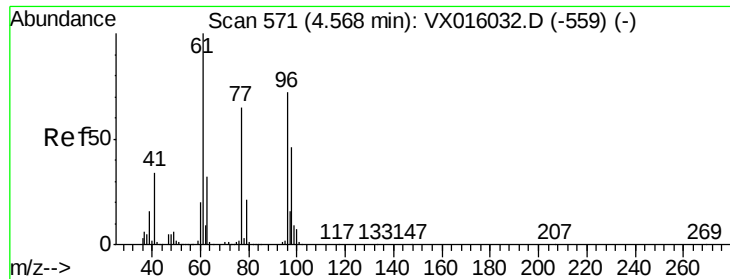
72 32.2 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



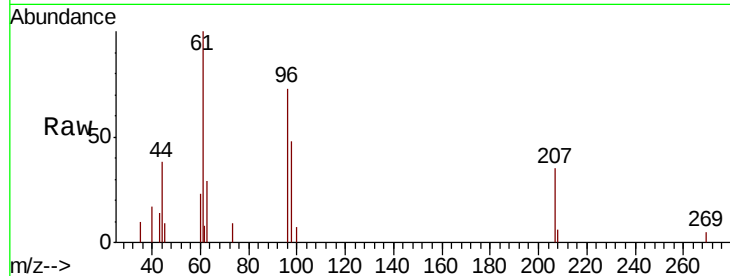


#27

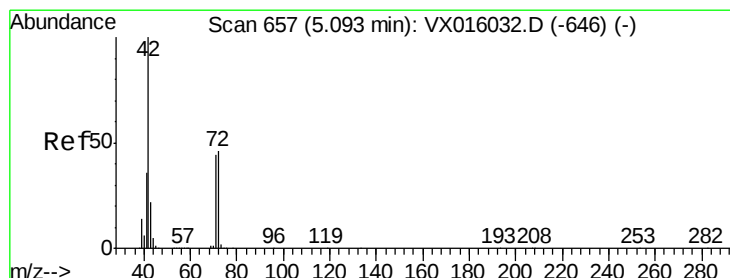
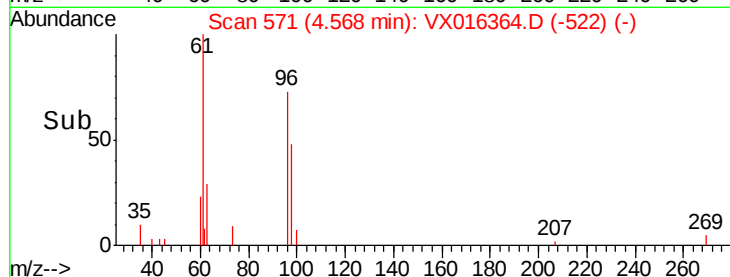
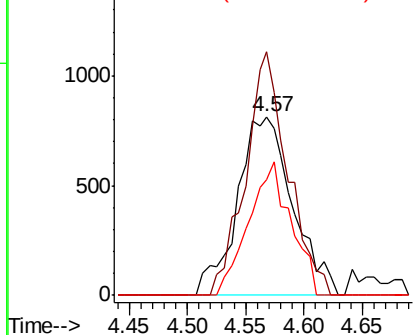
cis-1,2-Dichloroethene
 Concen: 0.842 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016364.D
 Acq: 20 May 2020 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	104.0	0.0	296.2
98	56.8	0.0	129.4



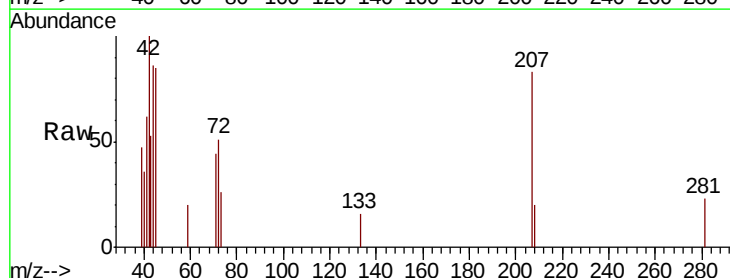
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



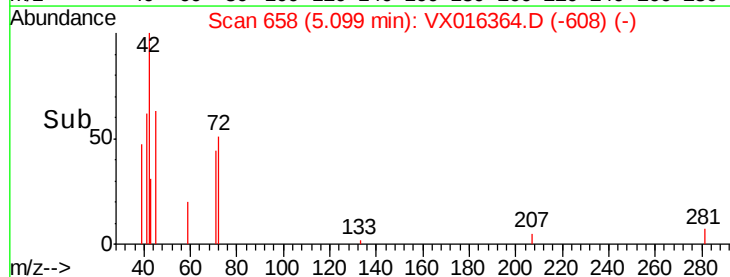
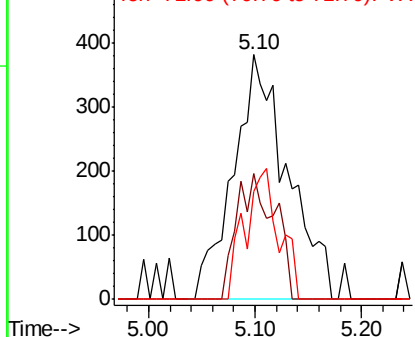
#29

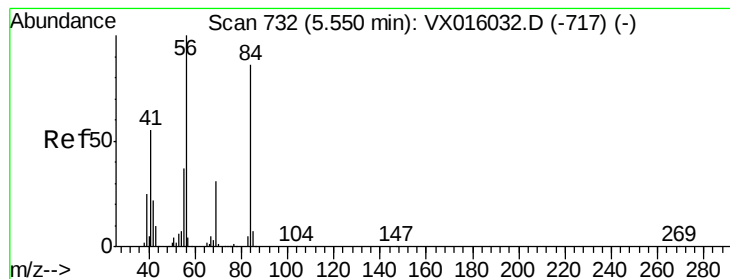
Tetrahydrofuran
 Concen: 0.851 ug/l
 RT: 5.10 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX016364.D
 Acq: 20 May 2020 16:45

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.1	37.1	55.7#
71	33.9	34.5	51.7#



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





#31

Cyclohexane

Concen: 1.007 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

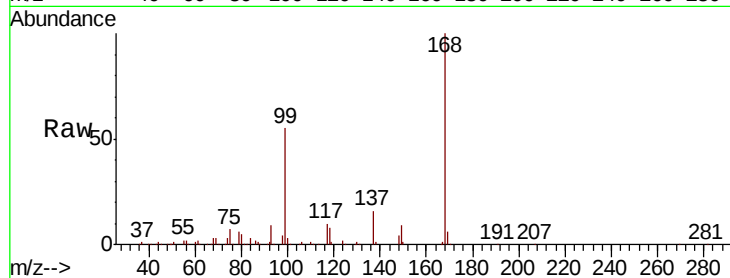
Tot Ion: 56 Resp: 4665

Ion Ratio Lower Upper

56 100

69 181.5 25.0 37.6#

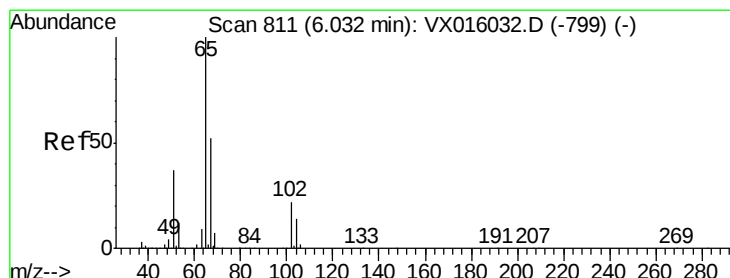
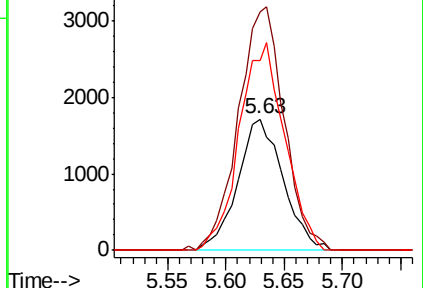
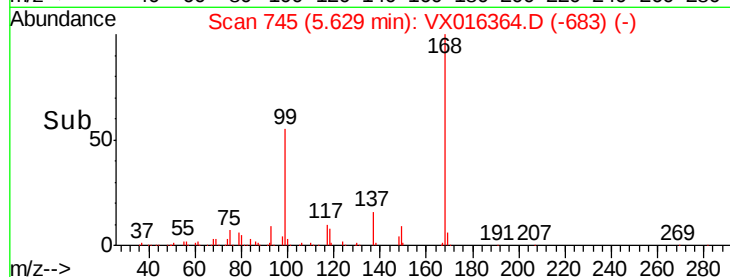
84 144.5 69.0 103.6#



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: 44.840 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016364.D

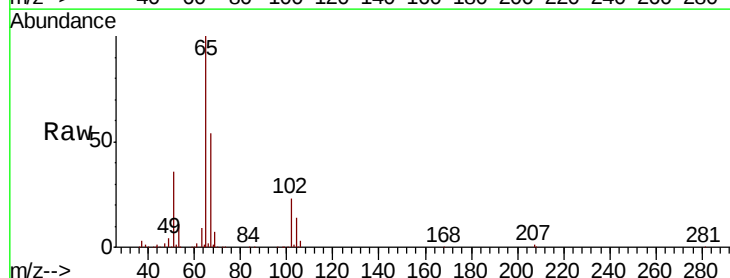
Acq: 20 May 2020 16:45

Tgt Ion: 65 Resp: 149459

Ion Ratio Lower Upper

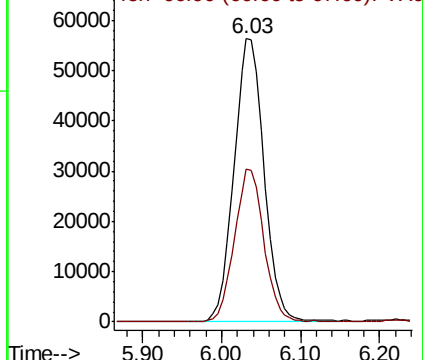
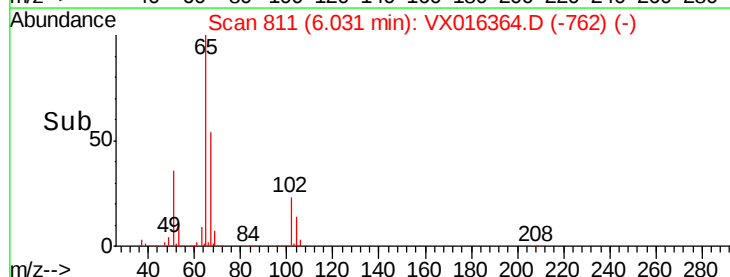
65 100

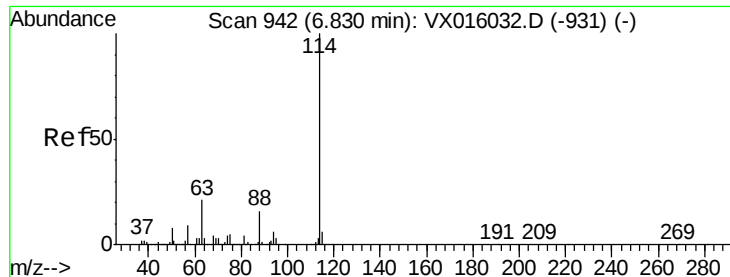
67 52.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

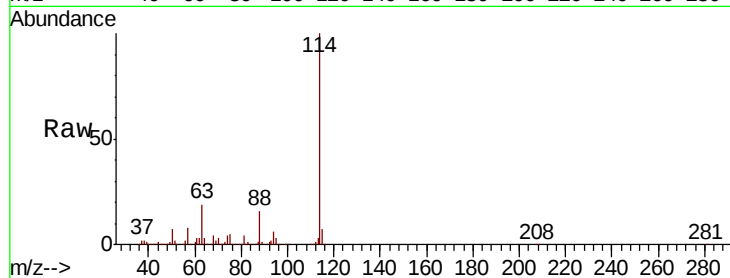
Tot Ion:114 Resp: 420779

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.8

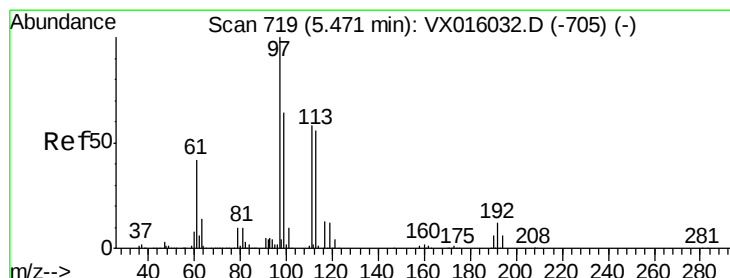
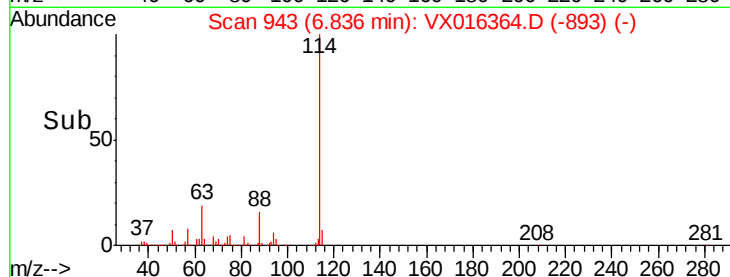
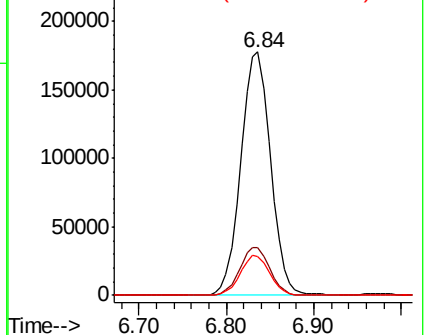
88 16.1 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 46.574 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

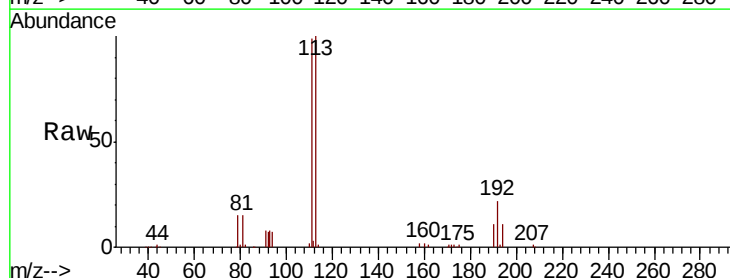
Tgt Ion:113 Resp: 124158

Ion Ratio Lower Upper

113 100

111 103.6 81.6 122.4

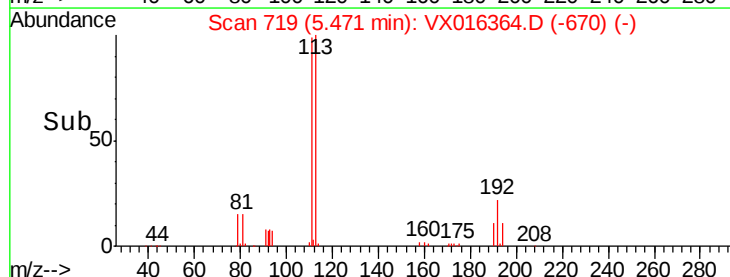
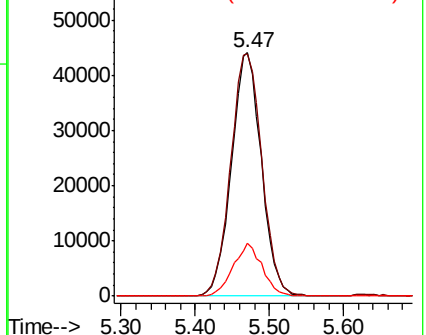
192 20.9 17.0 25.4

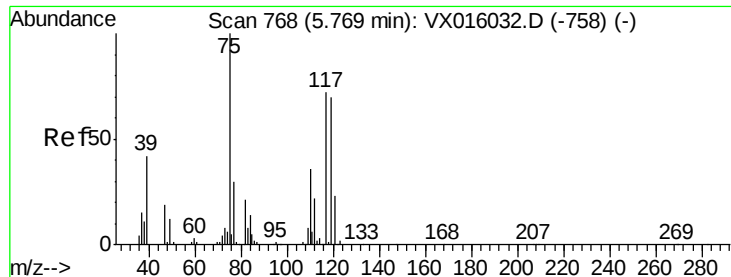


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

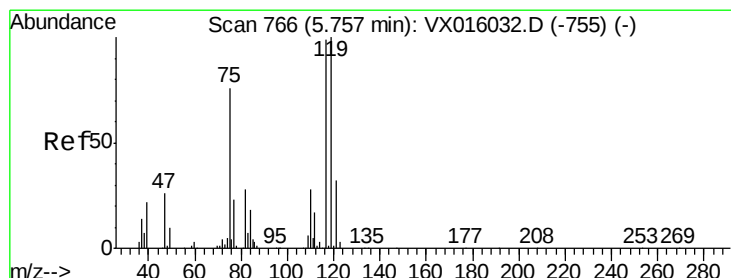
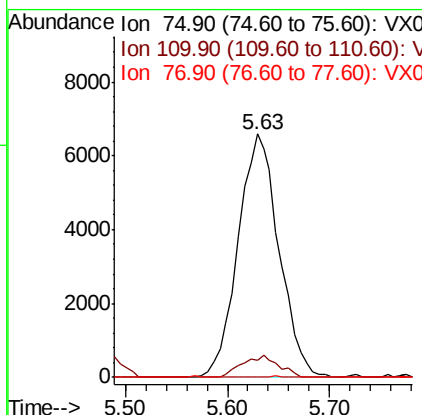
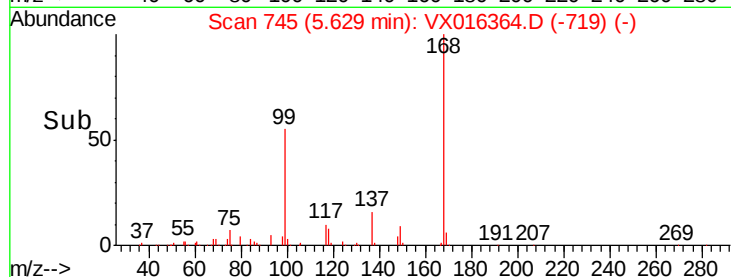
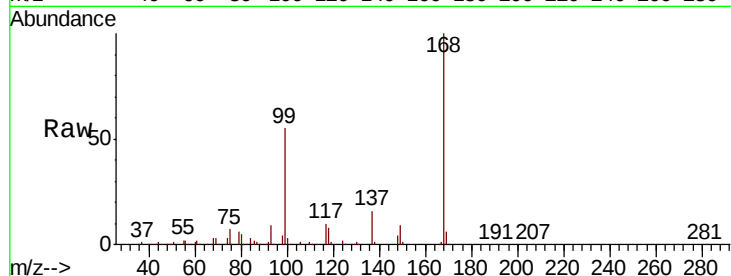




#36
 1,1-Dichloropropene
 Concen: 4.416 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016364.D
 Acq: 20 May 2020 16:45

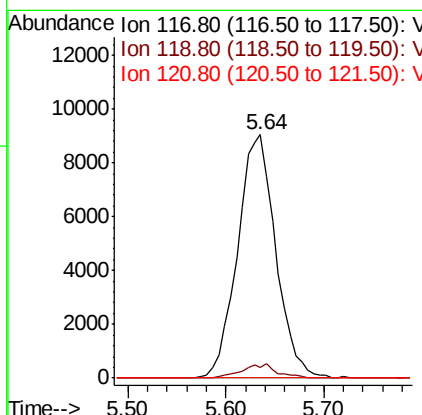
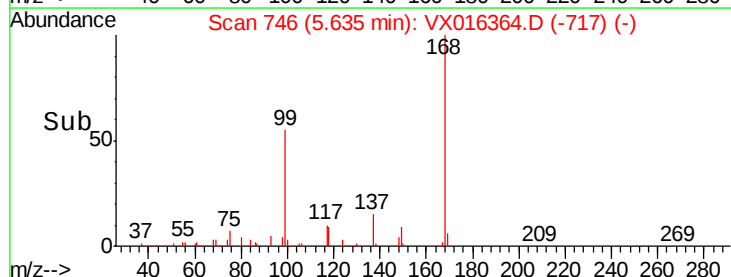
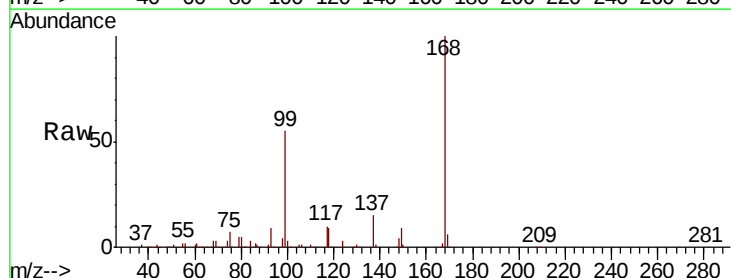
Instrument :
 MSVOA_X
 ClientSampled :

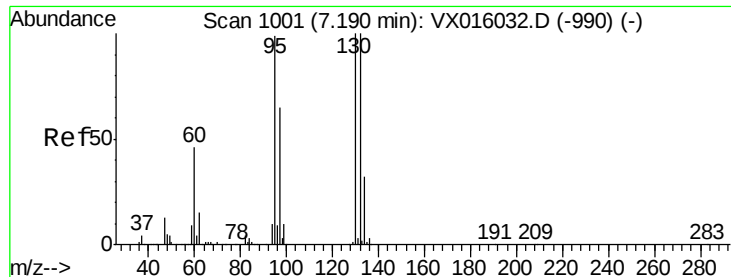
Tot Ion: 75 Resp: 18290
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.1 54.1#
 77 0.1 25.0 37.6#



#38
 Carbon Tetrachloride
 Concen: 5.798 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016364.D
 Acq: 20 May 2020 16:45

Tgt Ion: 117 Resp: 24408
 Ion Ratio Lower Upper
 117 100
 119 4.3 80.3 120.5#
 121 0.0 25.7 38.5#





#44

Trichloroethene

Concen: 0.360 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

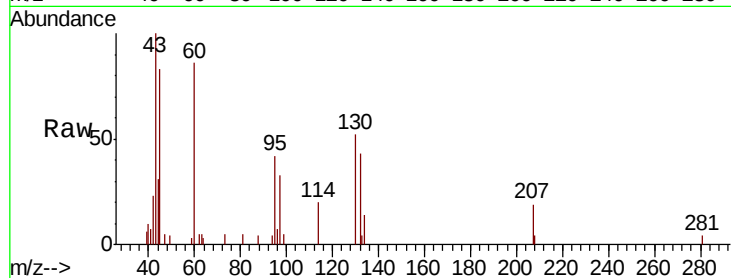
ClientSampleId :

Tot Ion:130 Resp: 1550

Ion Ratio Lower Upper

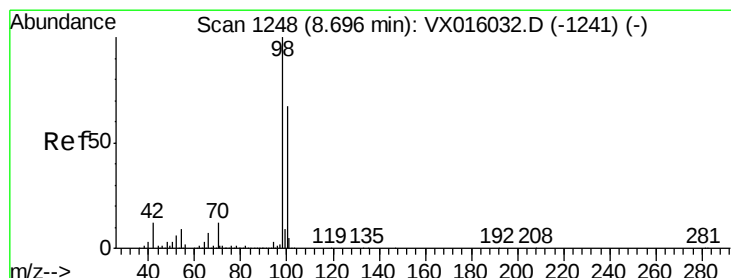
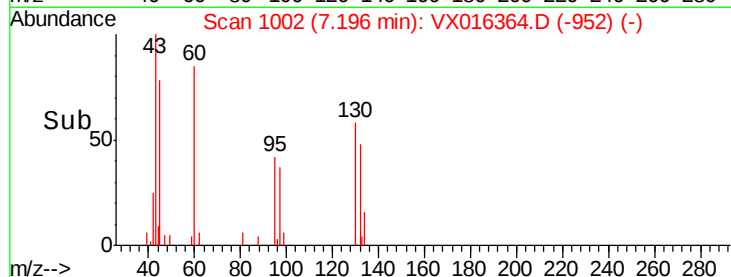
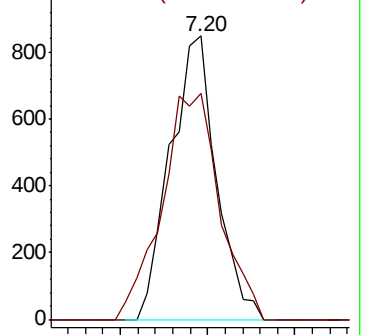
130 100

95 79.7 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.568 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016364.D

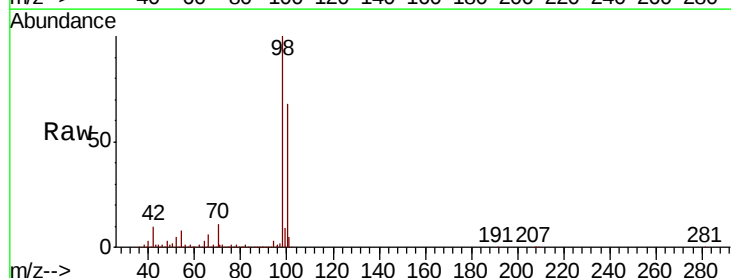
Acq: 20 May 2020 16:45

Tgt Ion: 98 Resp: 519412

Ion Ratio Lower Upper

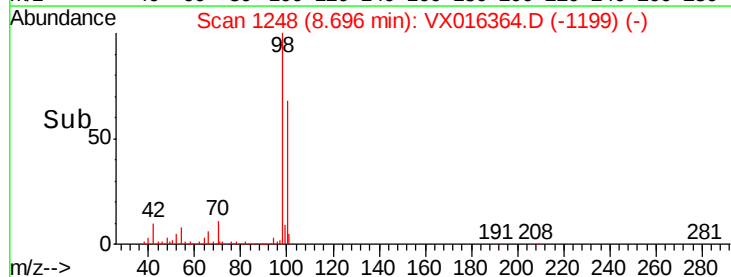
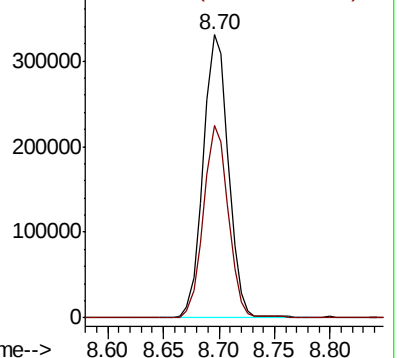
98 100

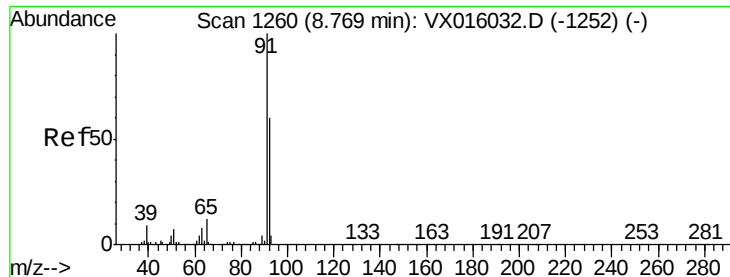
100 66.8 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.558 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

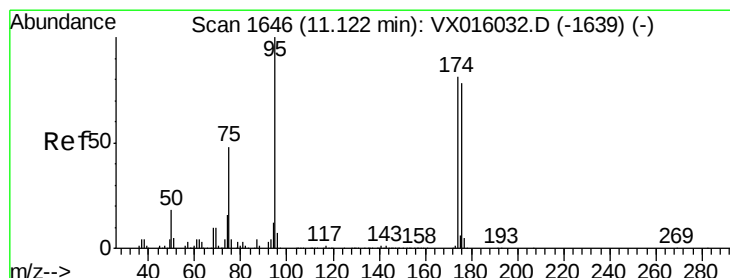
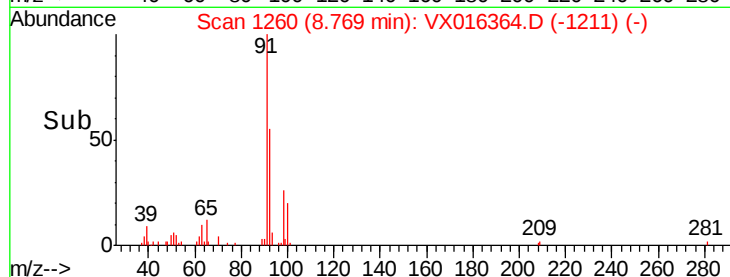
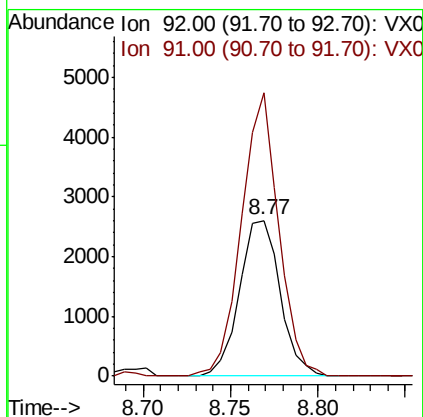
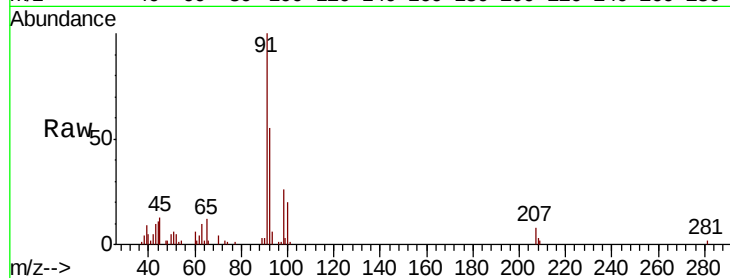
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 92 Resp: 4218

Ion Ratio Lower Upper

92 100

91 165.6 134.5 201.7



#62

4-Bromofluorobenzene

Concen: 54.190 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

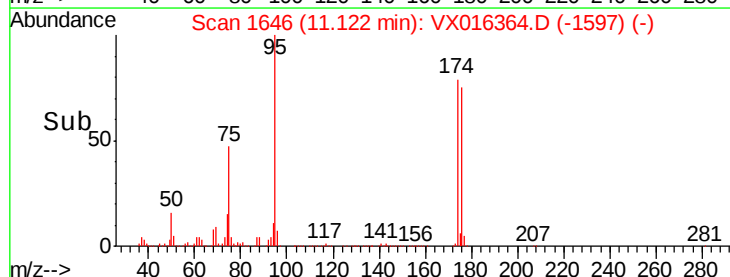
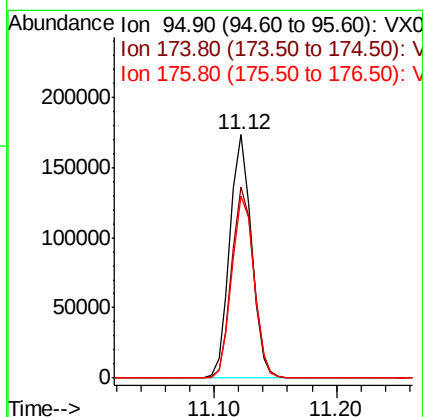
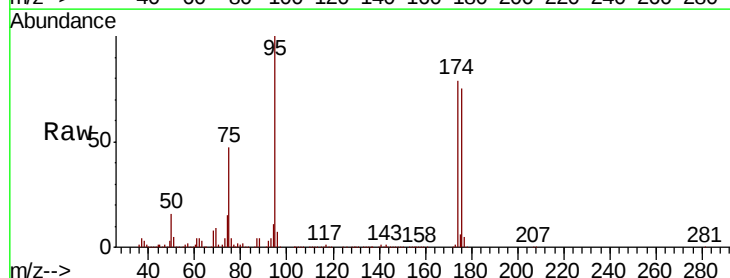
Tgt Ion: 95 Resp: 211710

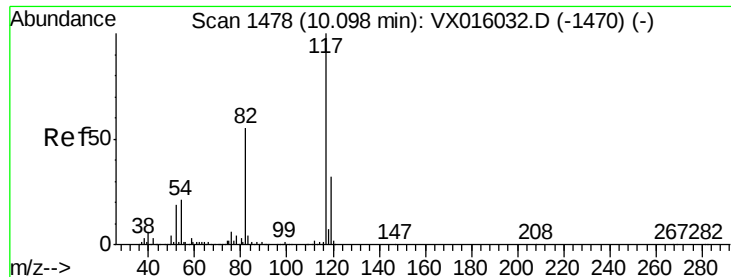
Ion Ratio Lower Upper

95 100

174 80.1 0.0 159.4

176 76.8 0.0 157.6

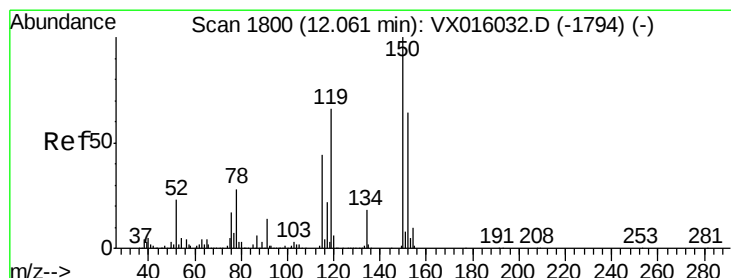
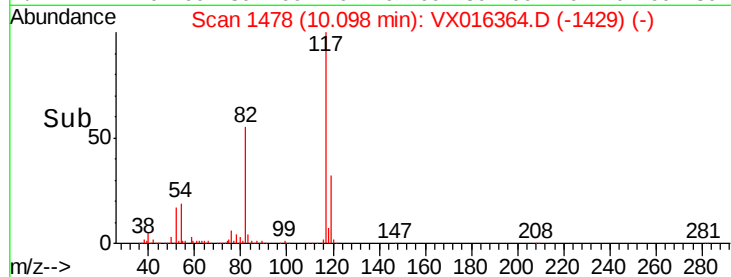
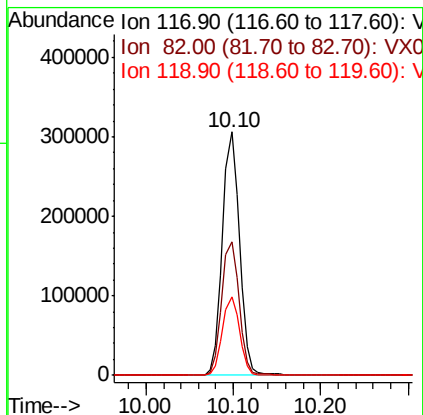
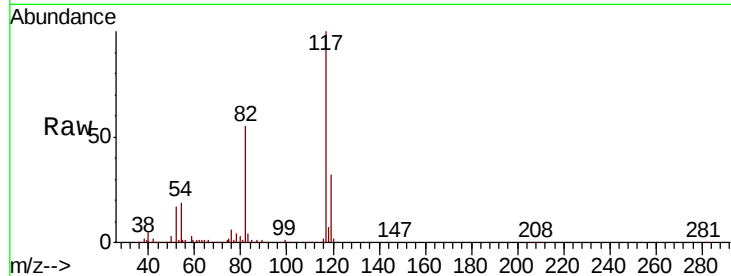




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016364.D
Acq: 20 May 2020 16:45

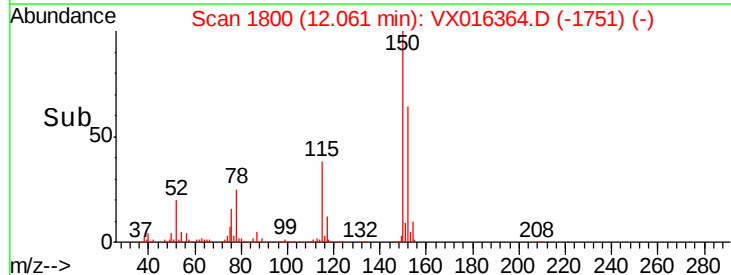
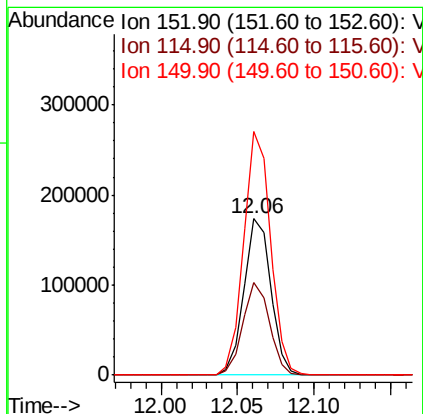
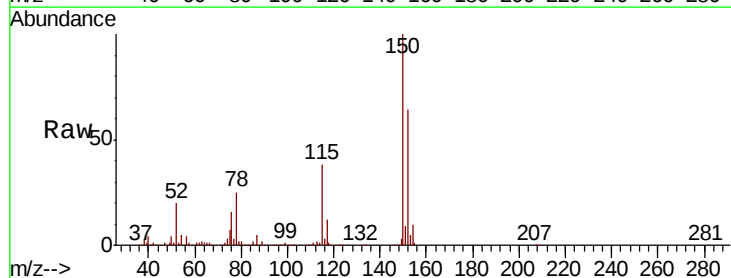
Instrument :
MSVOA_X
ClientSampleId :

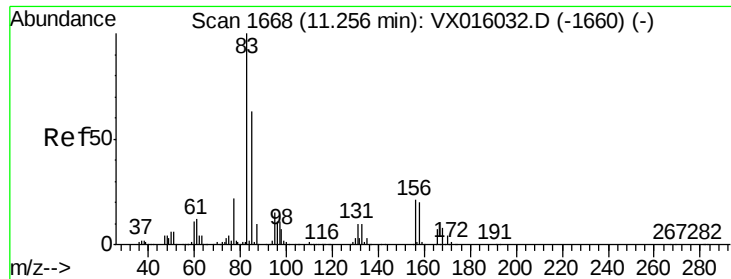
Tot Ion:117 Resp: 415341
Ion Ratio Lower Upper
117 100
82 54.9 44.4 66.6
119 32.3 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016364.D
Acq: 20 May 2020 16:45

Tgt Ion:152 Resp: 212749
Ion Ratio Lower Upper
152 100
115 58.8 41.3 124.1
150 155.0 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.093 ug/l

RT: 11.13 min Scan# 1648

Delta R.T. -0.12 min

Lab File: VX016364.D

Acq: 20 May 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

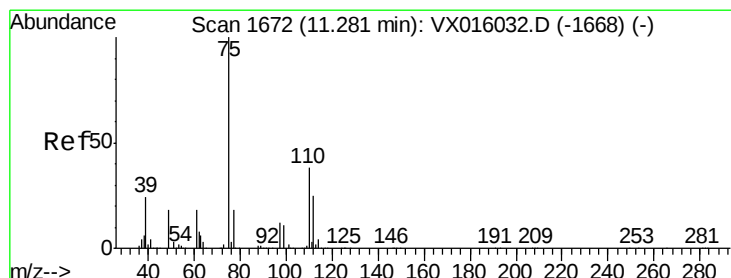
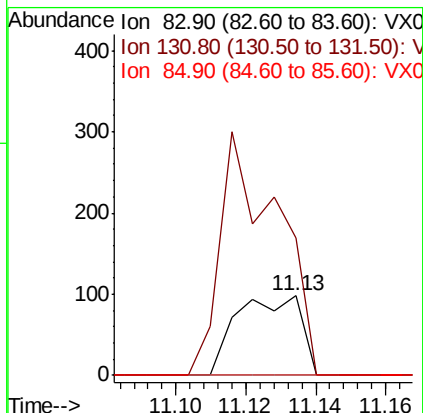
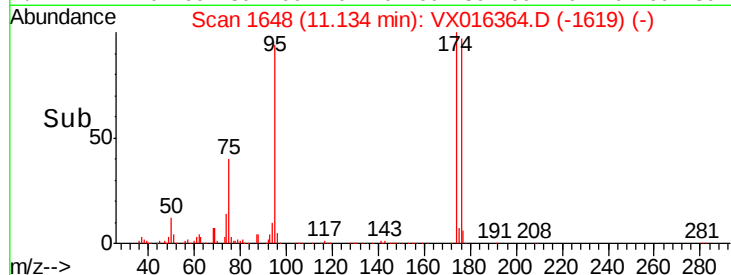
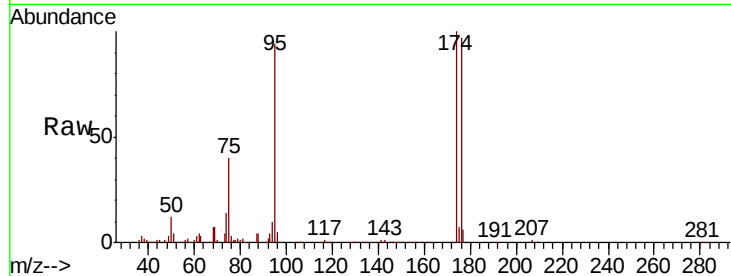
Tot Ion: 83 Resp: 126

Ion Ratio Lower Upper

83 100

131 272.2 5.1 15.4#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 20.763 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016364.D

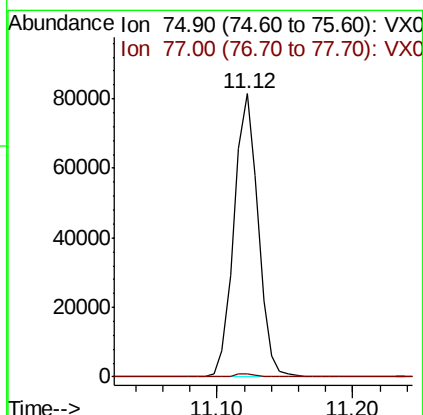
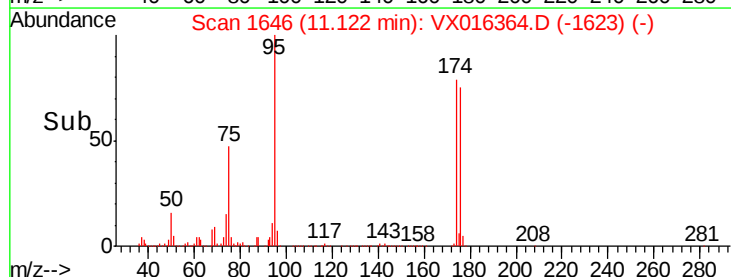
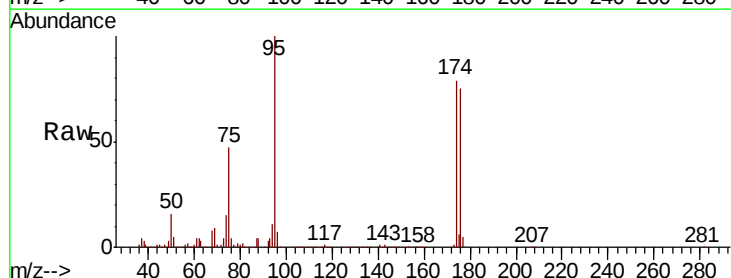
Acq: 20 May 2020 16:45

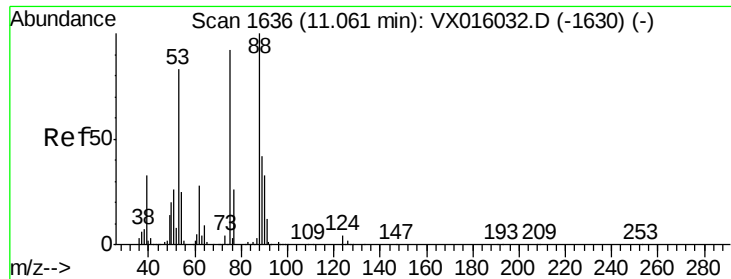
Tgt Ion: 75 Resp: 100240

Ion Ratio Lower Upper

75 100

77 1.3 21.2 63.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 49.480 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016364.D
 Acq: 20 May 2020 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 100240
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#

