

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051120\
 Data File : VX016149.D
 Acq On : 11 May 2020 15:19
 Operator : JC/SP
 Sample : L2552-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z4-DUP-0552-200507

Quant Time: May 11 18:34:38 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	286020	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	469838	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	457868	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	236598	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	174225	46.29	ug/l	0.00
Spiked Amount			Recovery	=	92.58%	
35) Dibromofluoromethane	5.47	113	137201	46.09	ug/l	0.00
Spiked Amount			Recovery	=	92.18%	
50) Toluene-d8	8.70	98	578418	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.12	95	235134	53.90	ug/l	0.00
Spiked Amount			Recovery	=	107.80%	

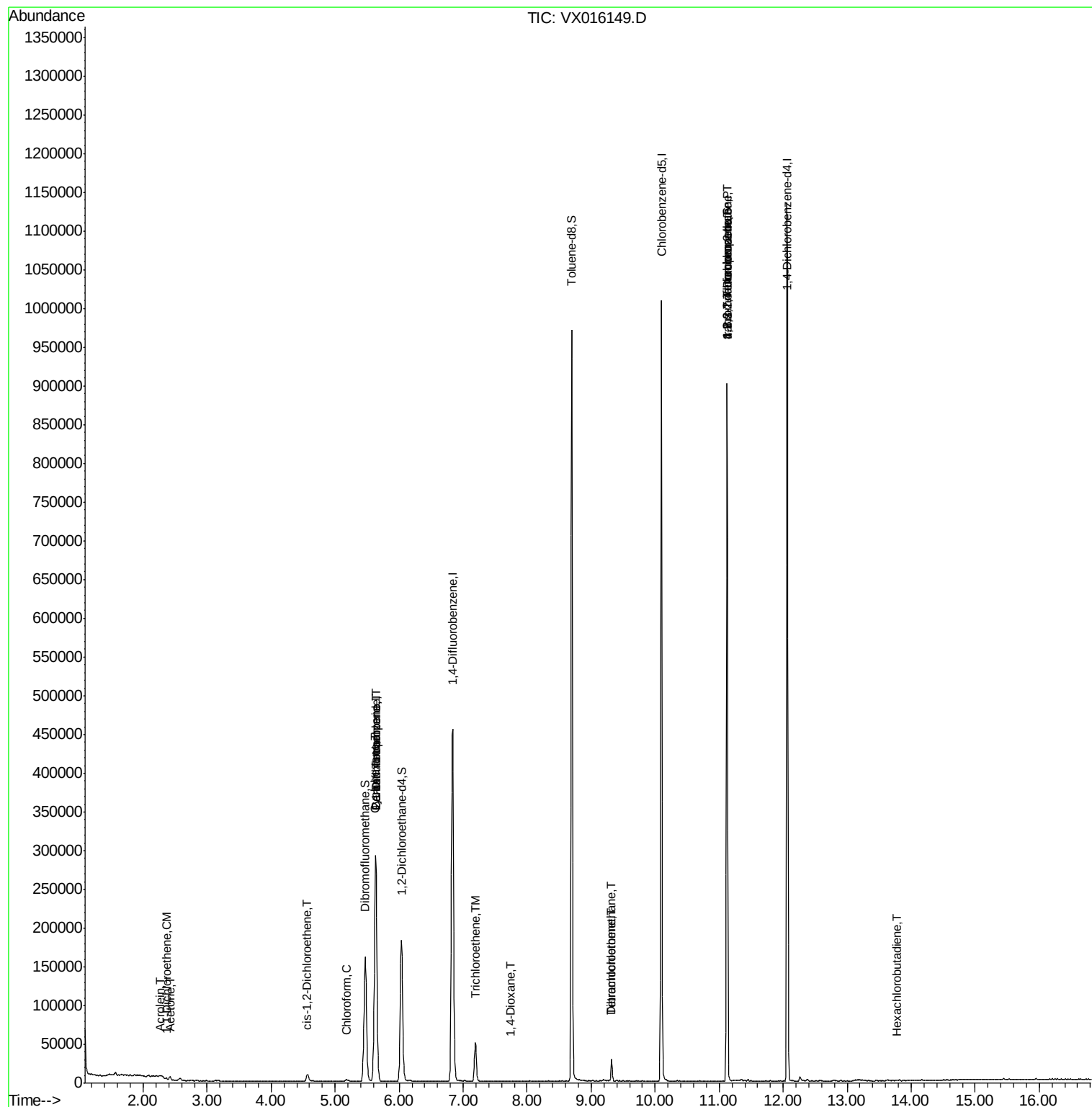
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	2.36	96	721	0.242	ug/l	98
13) Acrolein	2.28	56	799	1.342	ug/l #	14
16) Acetone	2.42	43	4771	2.841	ug/l	93
17) Carbon Disulfide	2.55	76	1742	Below Cal	#	79
27) cis-1,2-Dichloroethene	4.57	96	6057	1.672	ug/l	87
30) Chloroform	5.17	83	2885	0.504	ug/l	98
31) Cyclohexane	5.62	56	5738	1.097	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	20960	4.532	ug/l #	50
38) Carbon Tetrachloride	5.63	117	27022	5.748	ug/l #	13
44) Trichloroethene	7.19	130	18750	3.900	ug/l	95
49) 1,4-Dioxane	7.73	88	23	0.237	ug/l #	72
60) Dibromochloromethane	9.32	129	4924	1.347	ug/l #	11
64) Tetrachloroethene	9.32	164	5198	0.925	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.12	83	163	2.100	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	116017	21.609	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	116017	51.496	ug/l #	13
94) Hexachlorobutadiene	13.77	225	104	0.566	ug/l #	30

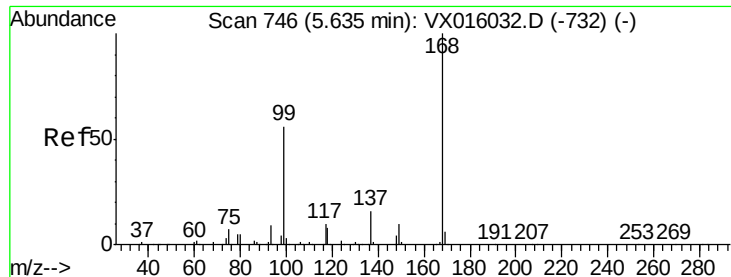
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

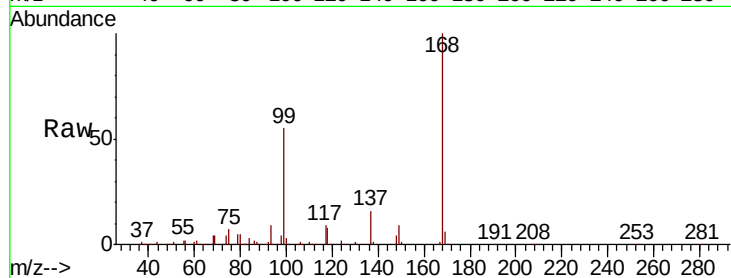
Z4-DUP-0552-200507

Tot Ion:168 Resp: 286020

Ion Ratio Lower Upper

168 100

99 54.9 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

120000

100000

80000

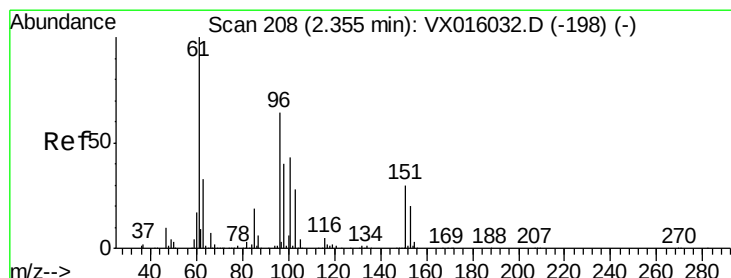
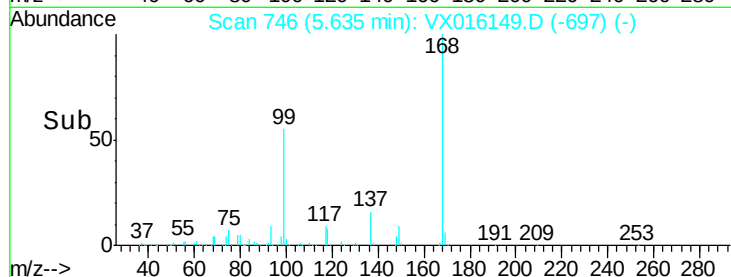
60000

40000

20000

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.242 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

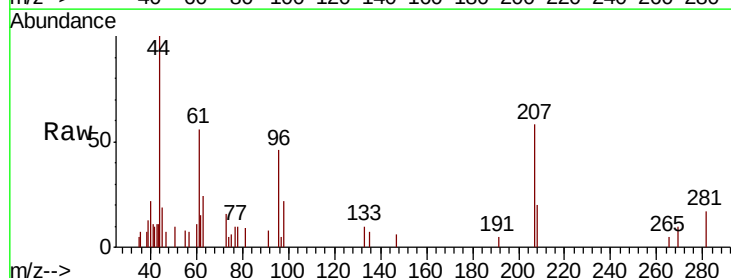
Tgt Ion: 96 Resp: 721

Ion Ratio Lower Upper

96 100

61 159.2 124.8 187.2

98 61.4 49.7 74.5



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

800

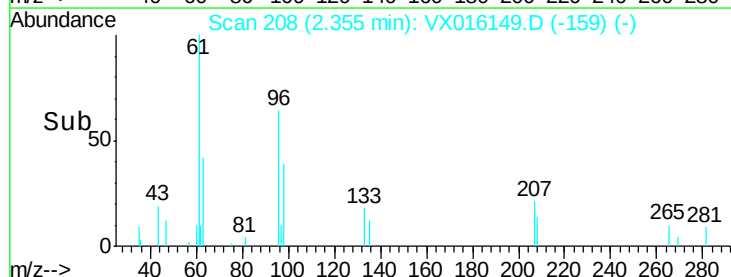
600

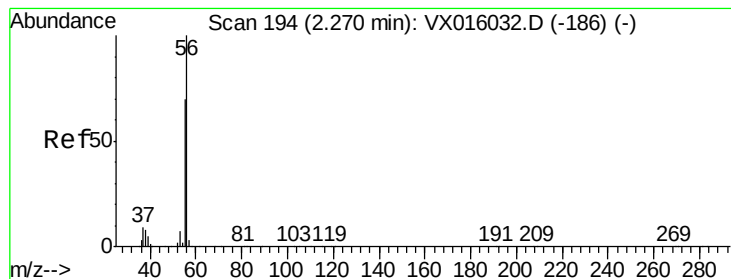
400

200

0

Time-->





#13

Acrolein

Concen: 1.342 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

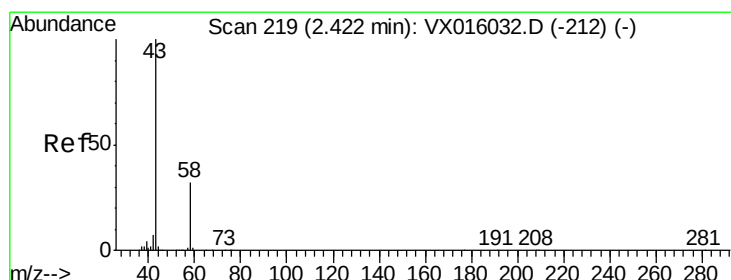
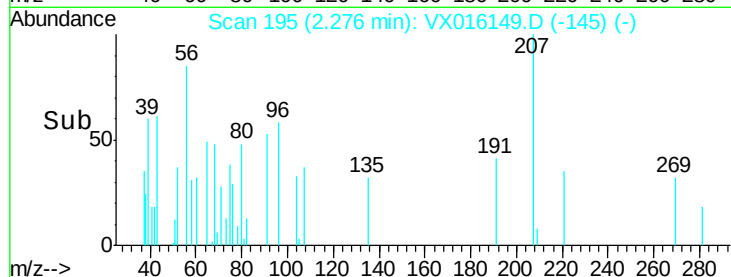
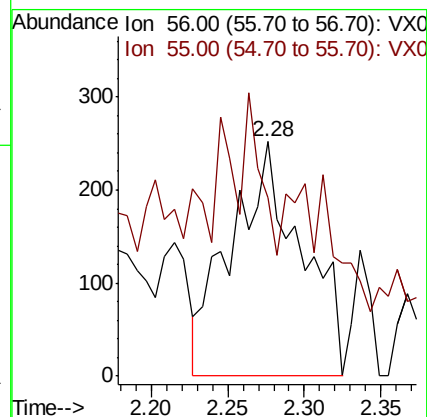
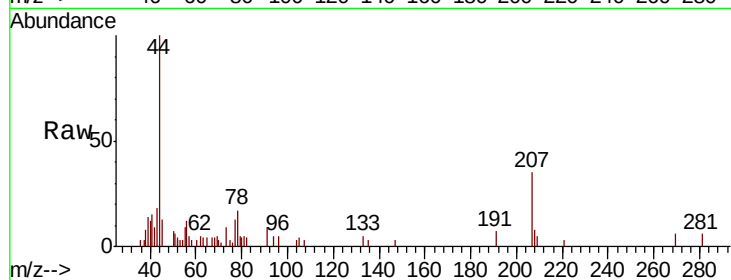
Z4-DUP-0552-200507

Tot Ion: 56 Resp: 799

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



#16

Acetone

Concen: 2.841 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016149.D

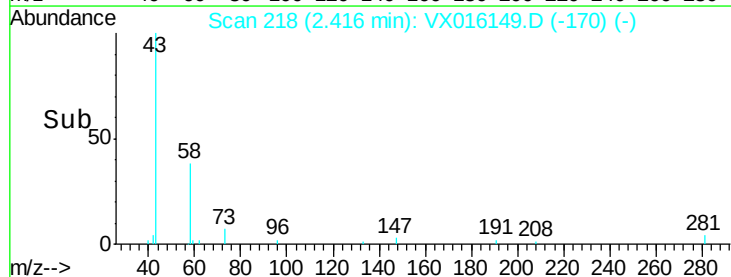
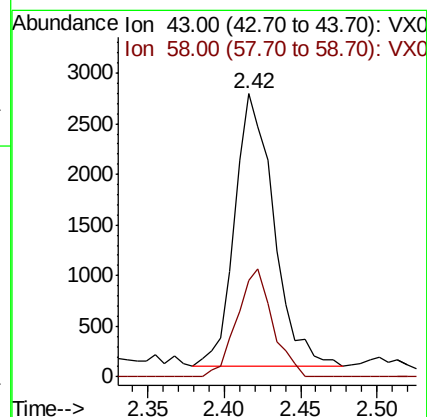
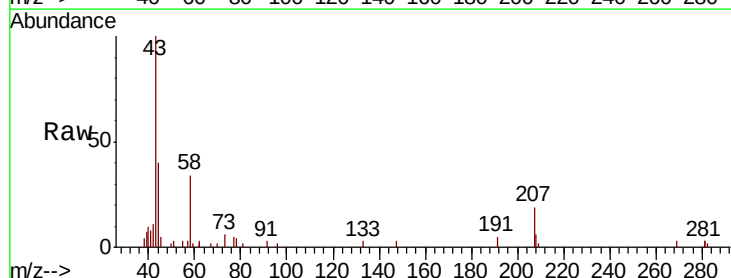
Acq: 11 May 2020 15:19

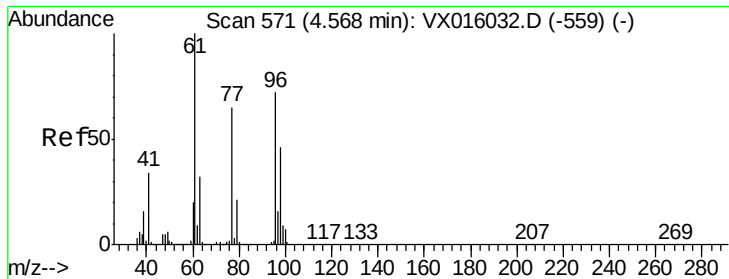
Tgt Ion: 43 Resp: 4771

Ion Ratio Lower Upper

43 100

58 35.4 25.4 38.0





#27

cis-1,2-Dichloroethene

Concen: 1.672 ug/l

RT: 4.57 min Scan# 571

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Z4-DUP-0552-200507

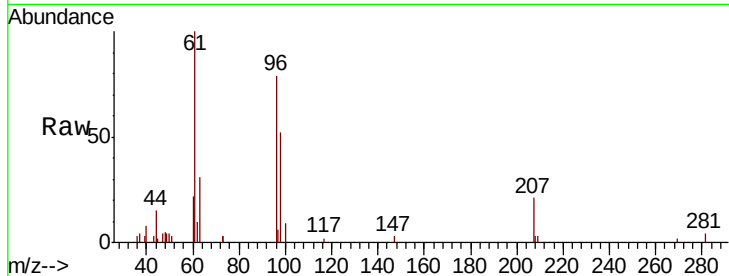
Tot Ion: 96 Resp: 6057

Ion Ratio Lower Upper

96 100

61 125.8 0.0 296.2

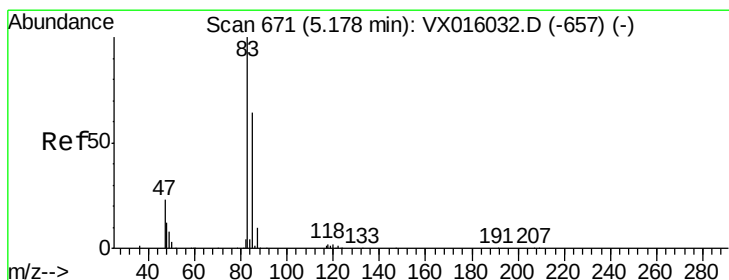
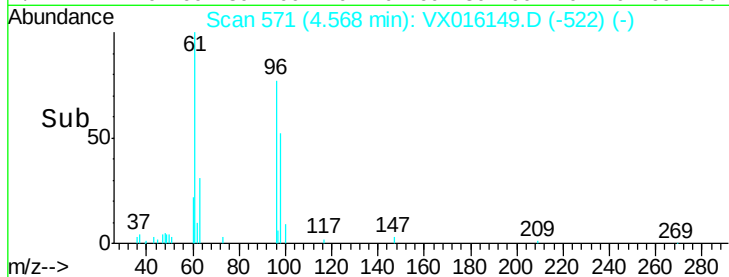
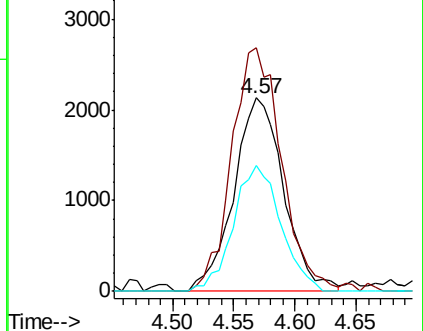
98 61.8 0.0 129.4



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



#30

Chloroform

Concen: 0.504 ug/l

RT: 5.17 min Scan# 670

Delta R.T. -0.01 min

Lab File: VX016149.D

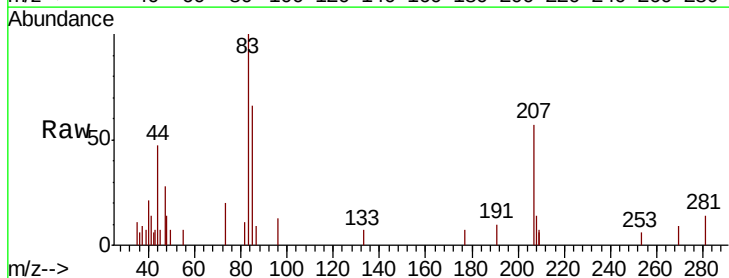
Acq: 11 May 2020 15:19

Tgt Ion: 83 Resp: 2885

Ion Ratio Lower Upper

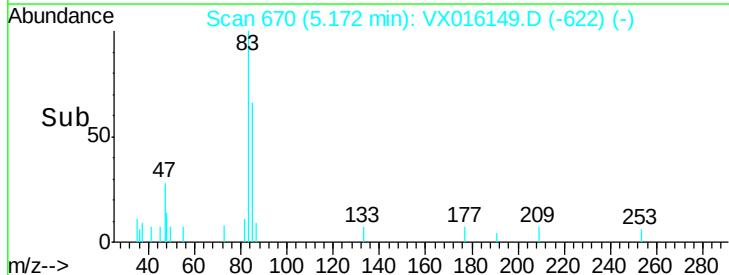
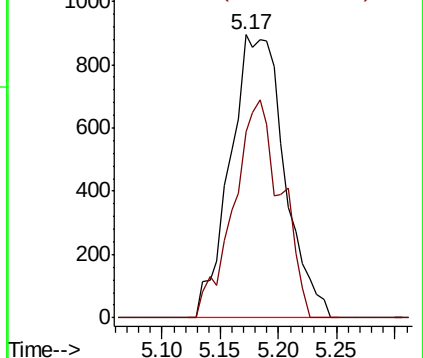
83 100

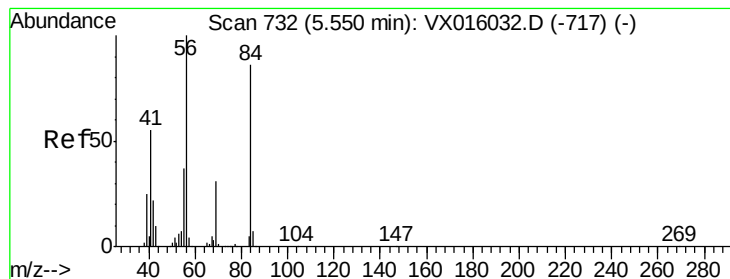
85 65.8 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.097 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

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Z4-DUP-0552-200507

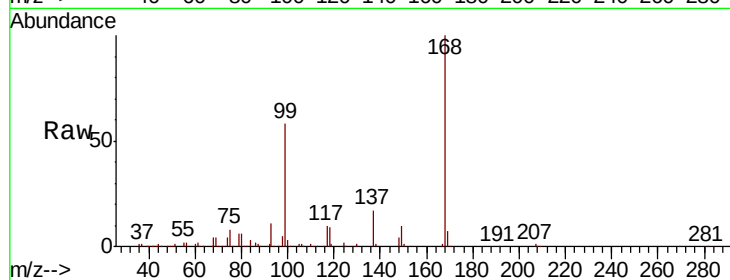
Tot Ion: 56 Resp: 5738

Ion Ratio Lower Upper

56 100

69 156.1 25.0 37.6#

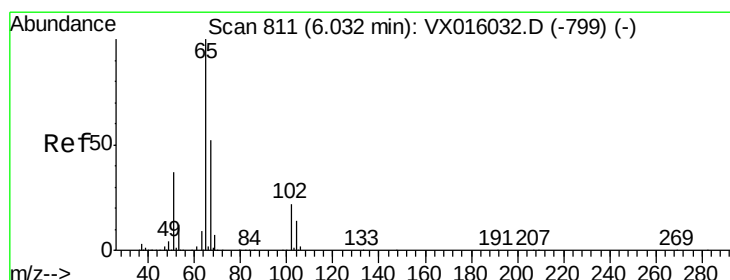
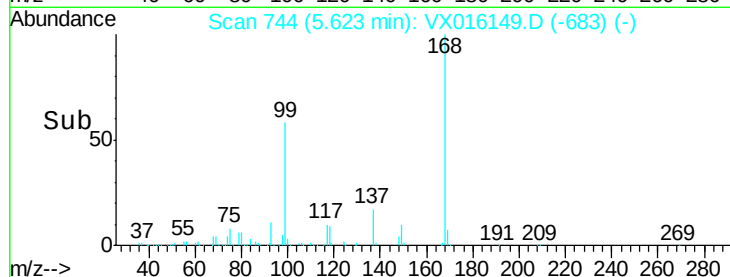
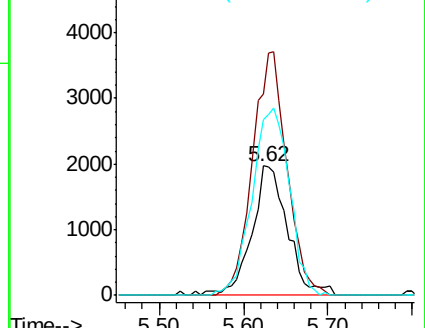
84 135.6 69.0 103.6#



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: 46.291 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016149.D

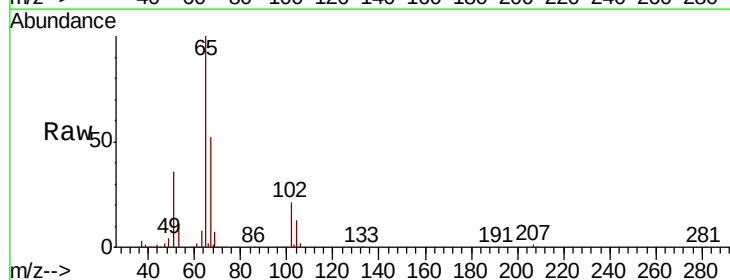
Acq: 11 May 2020 15:19

Tgt Ion: 65 Resp: 174225

Ion Ratio Lower Upper

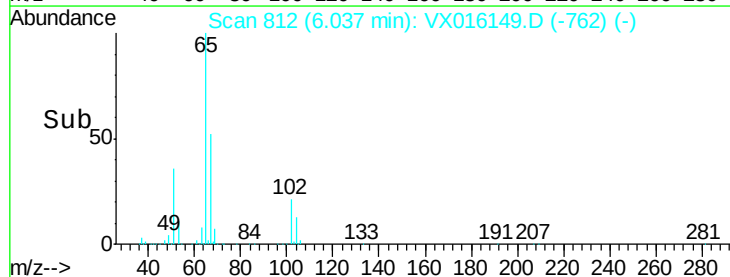
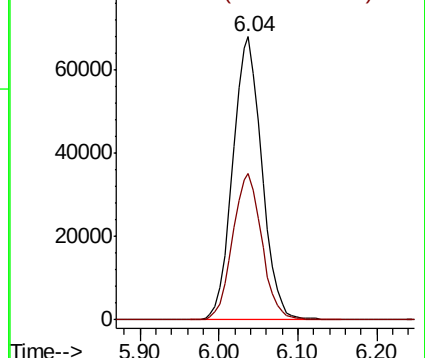
65 100

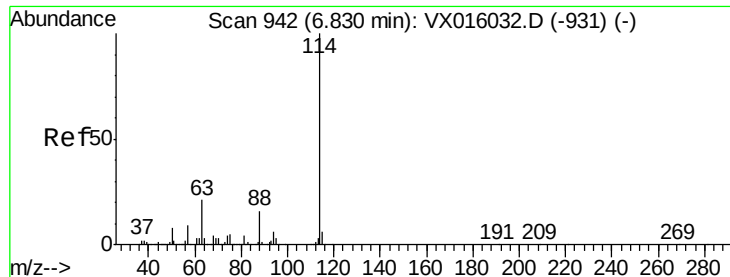
67 51.9 0.0 104.8



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: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Z4-DUP-0552-200507

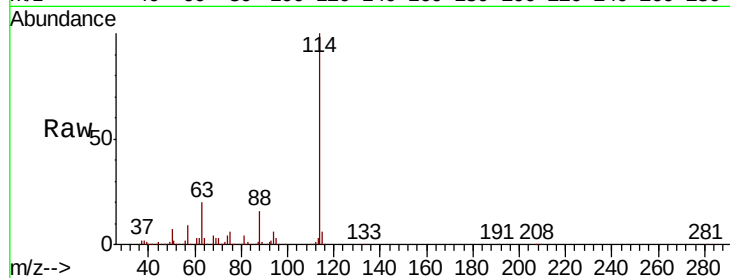
Tot Ion:114 Resp: 469838

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

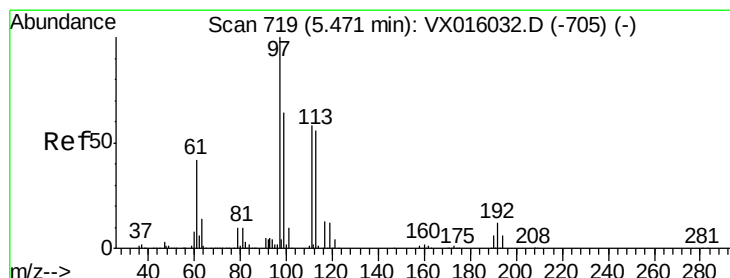
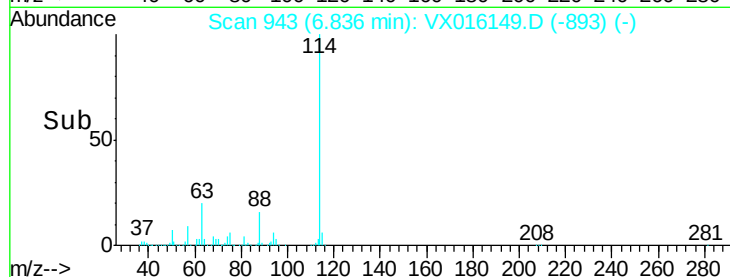
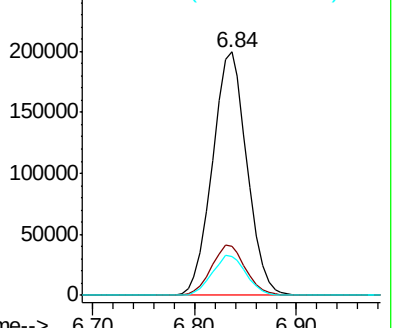
88 15.9 0.0 31.4



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: 46.093 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

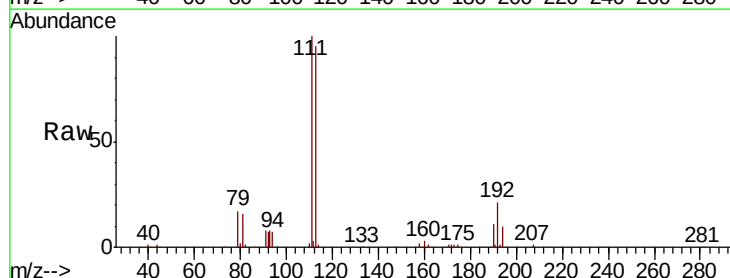
Tgt Ion:113 Resp: 137201

Ion Ratio Lower Upper

113 100

111 102.5 81.6 122.4

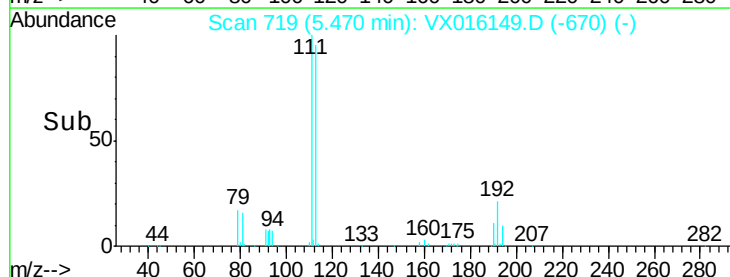
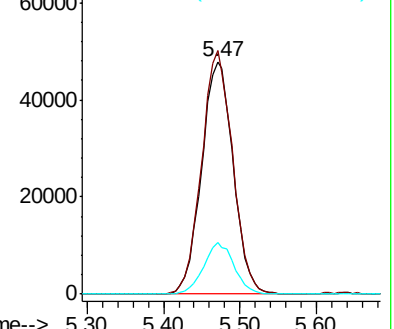
192 21.2 17.0 25.4

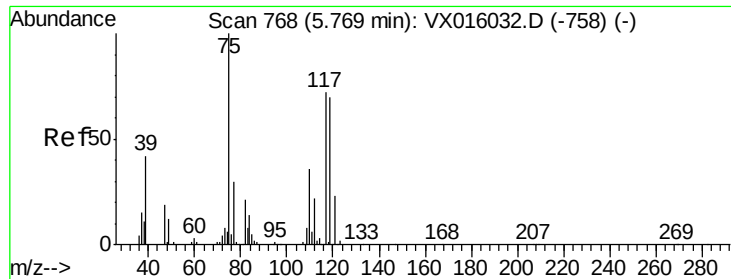


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

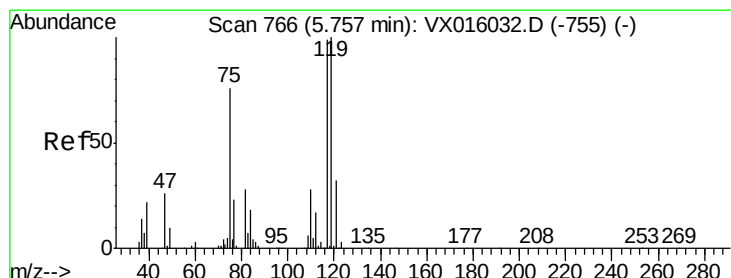
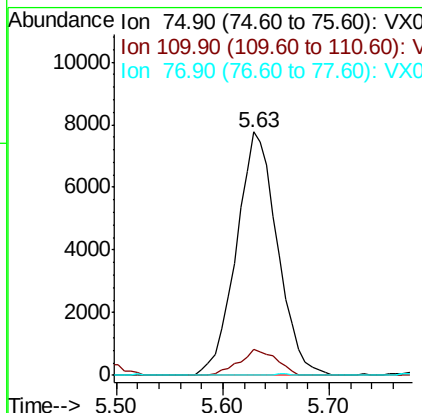
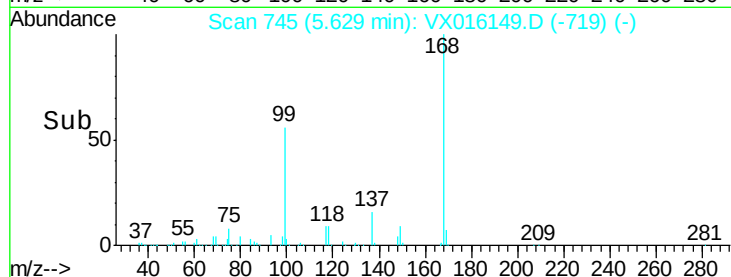
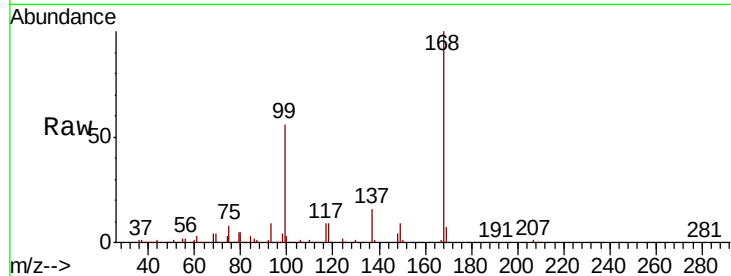




#36
 1,1-Dichloropropene
 Concen: 4.532 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016149.D
 Acq: 11 May 2020 15:19

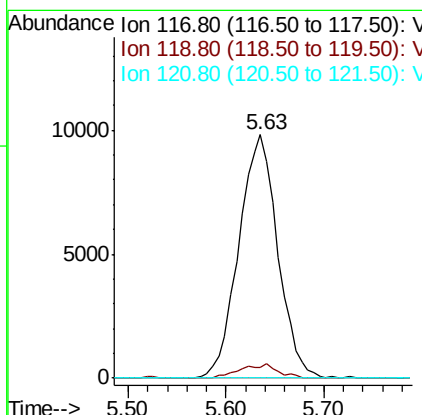
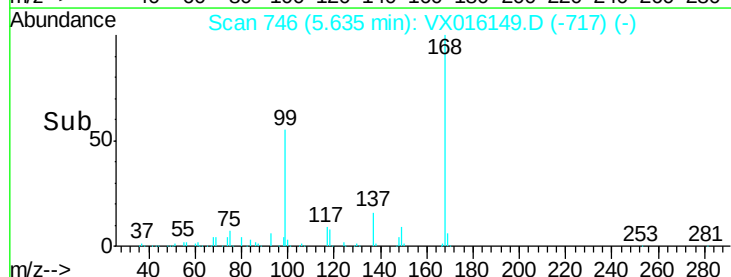
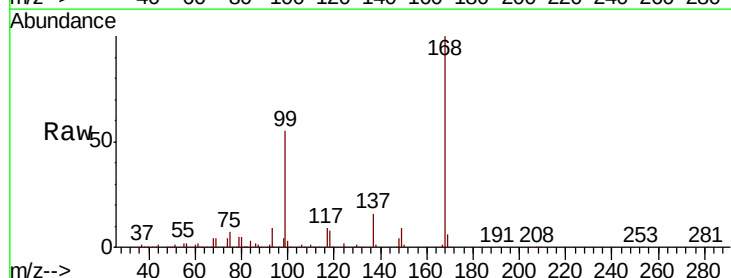
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 Z4-DUP-0552-200507

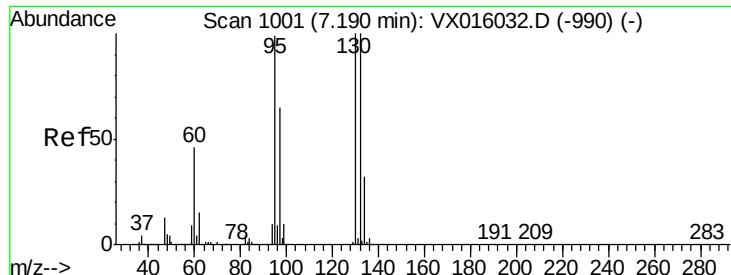
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.1	54.1#
77	0.0	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.748 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016149.D
 Acq: 11 May 2020 15:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	80.3	120.5#
121	0.0	25.7	38.5#





#44

Trichloroethene

Concen: 3.900 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

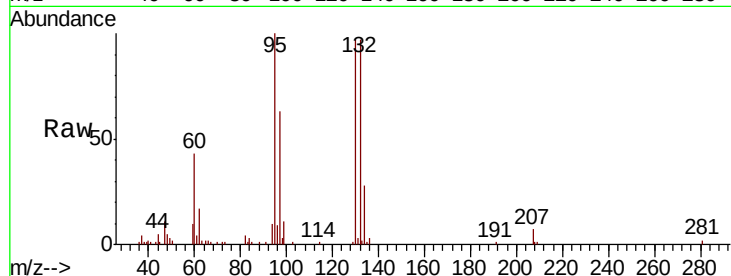
Z4-DUP-0552-200507

Tot Ion:130 Resp: 18750

Ion Ratio Lower Upper

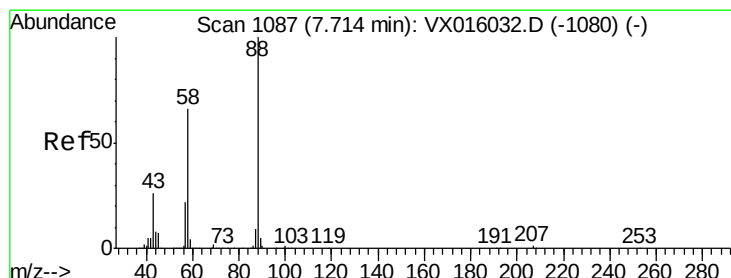
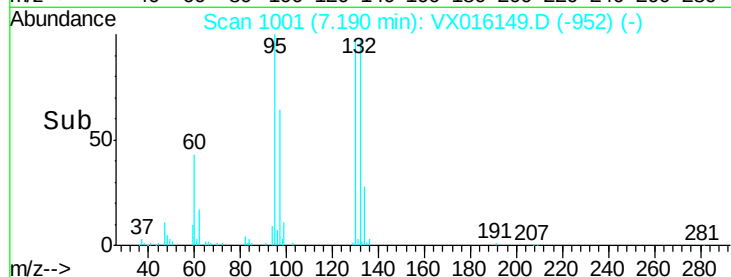
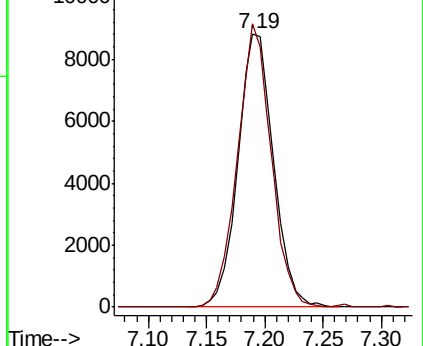
130 100

95 103.6 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.237 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

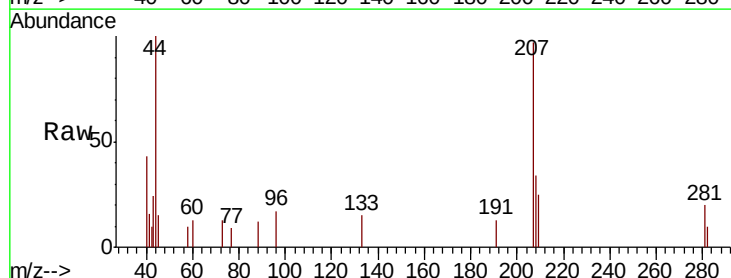
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

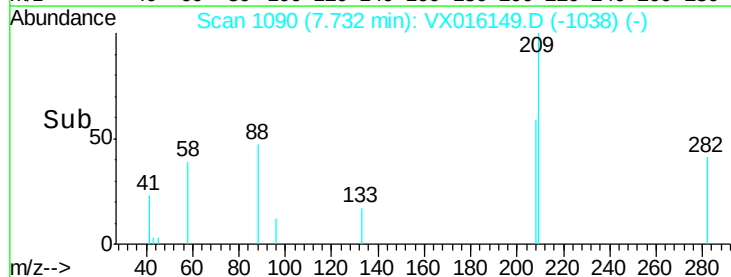
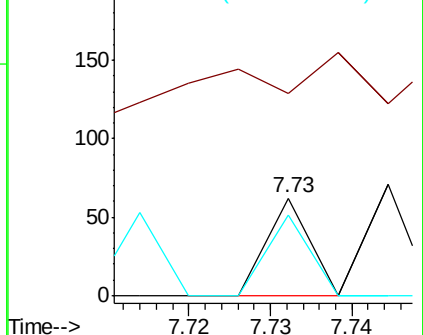
58 82.6 55.9 83.9

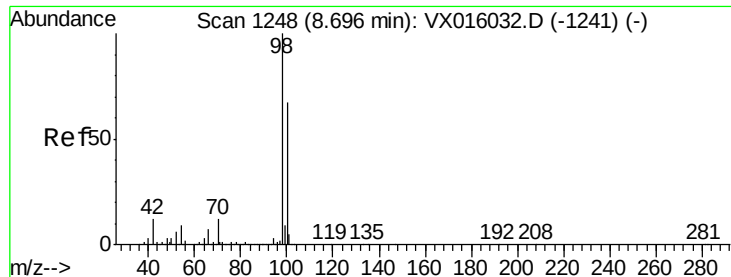


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.433 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

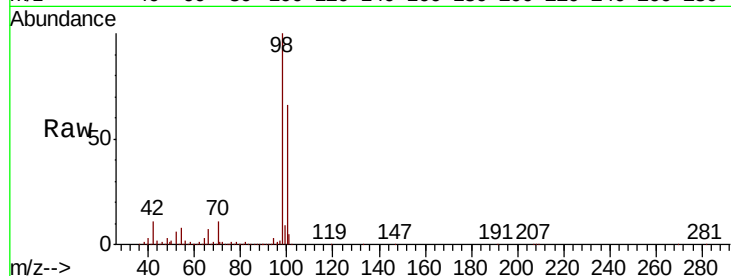
Z4-DUP-0552-200507

Tot Ion: 98 Resp: 578418

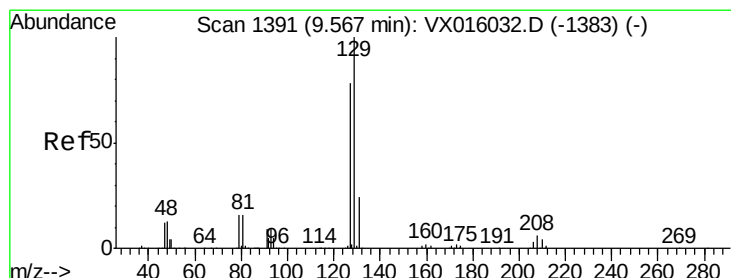
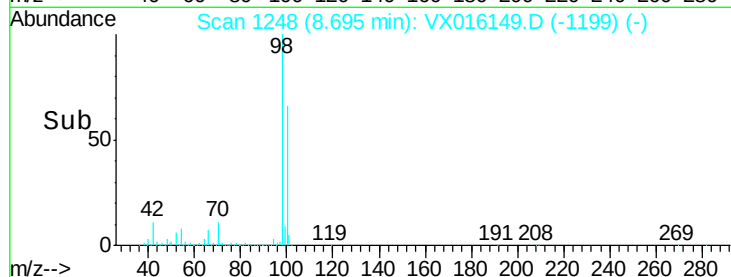
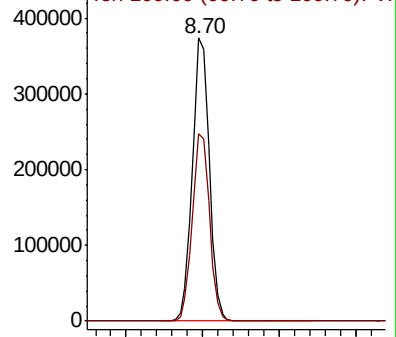
Ion Ratio Lower Upper

98 100

100 67.0 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX016149.D (-1199) (-)



#60

Dibromochloromethane

Concen: 1.347 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016149.D

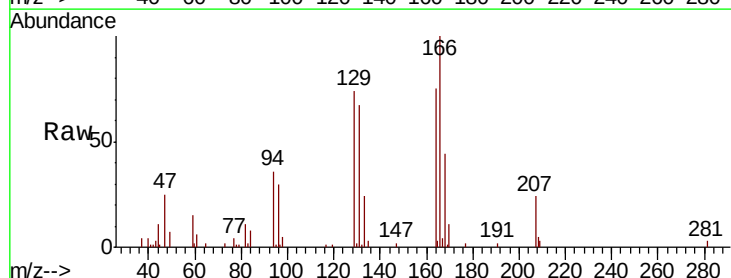
Acq: 11 May 2020 15:19

Tgt Ion: 129 Resp: 4924

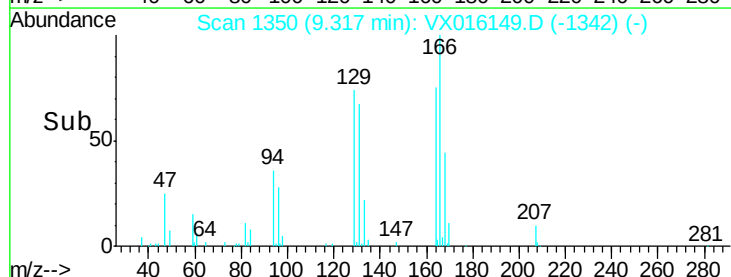
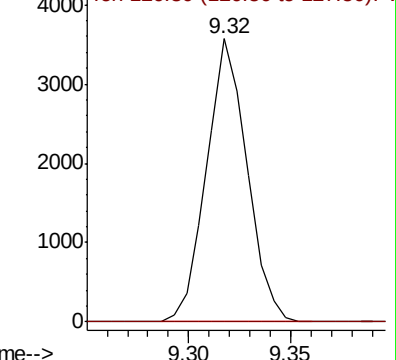
Ion Ratio Lower Upper

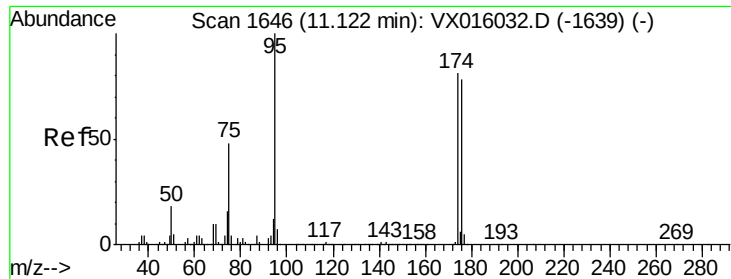
129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): VX016149.D (-1342) (-)





#62

4-Bromofluorobenzene

Concen: 53.901 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Z4-DUP-0552-200507

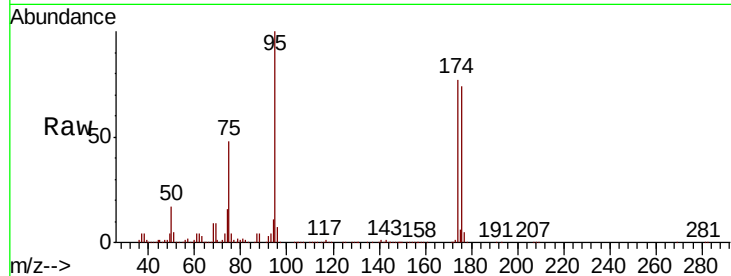
Tot Ion: 95 Resp: 235134

Ion Ratio Lower Upper

95 100

174 80.4 0.0 159.4

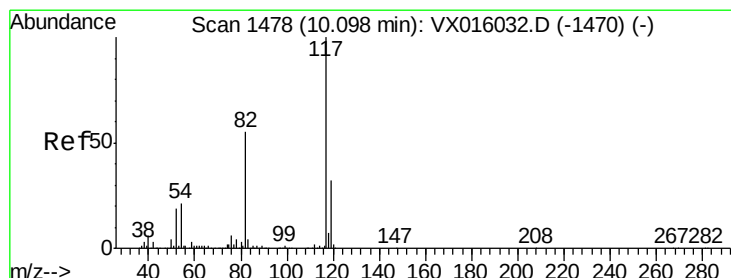
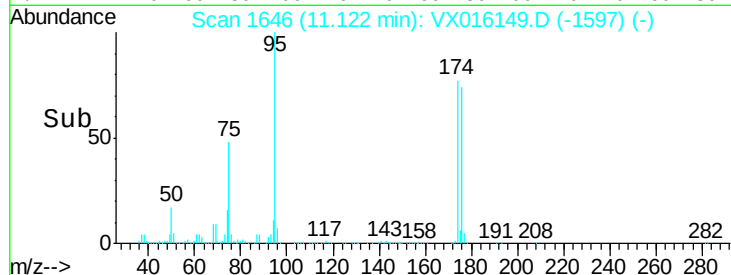
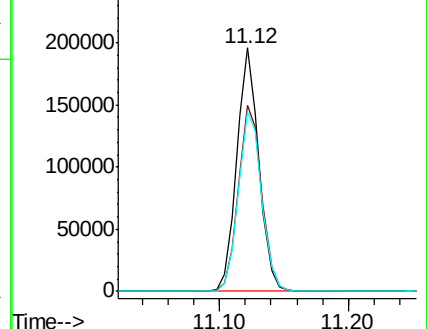
176 77.7 0.0 157.6



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: VX016149.D

Acq: 11 May 2020 15:19

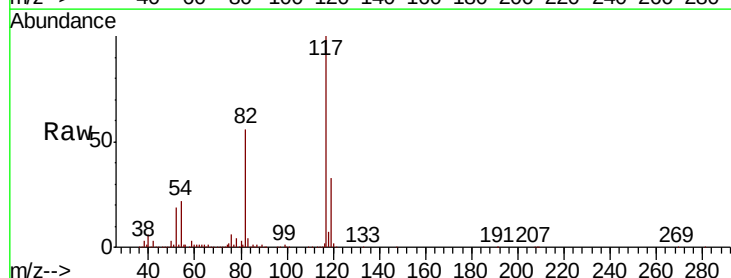
Tgt Ion: 117 Resp: 457868

Ion Ratio Lower Upper

117 100

82 56.4 44.4 66.6

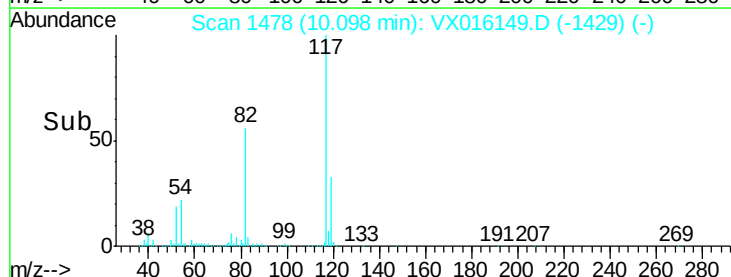
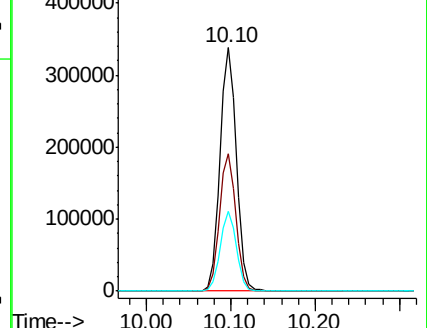
119 32.8 25.5 38.3

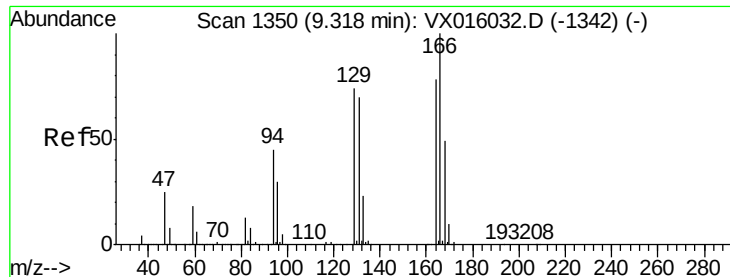


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

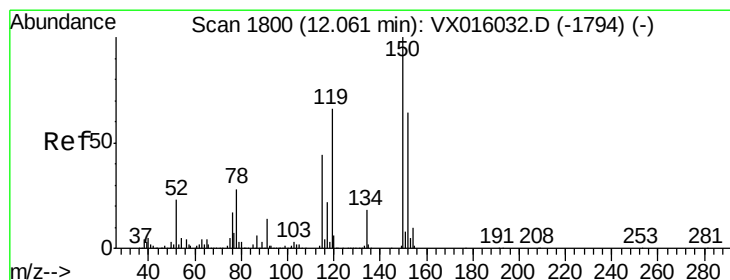
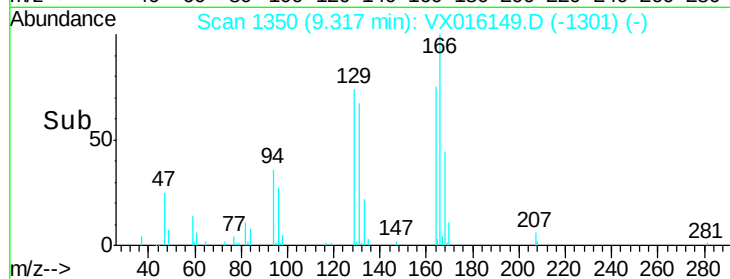
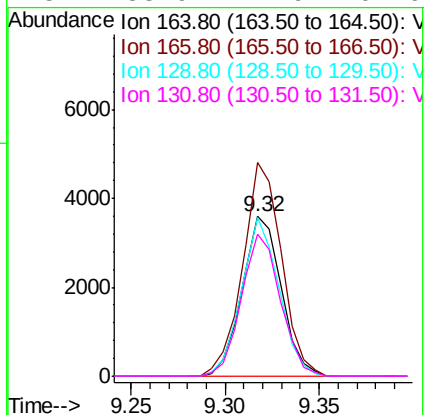
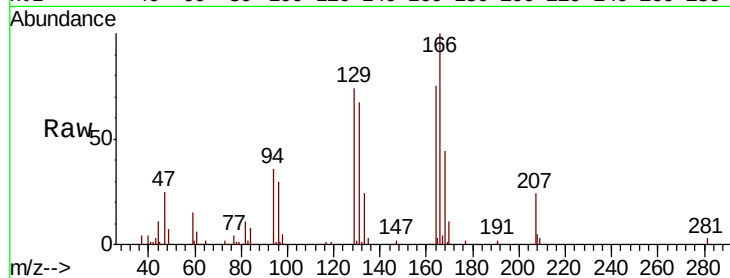




#64
Tetrachloroethene
Concen: 0.925 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX016149.D
Acq: 11 May 2020 15:19

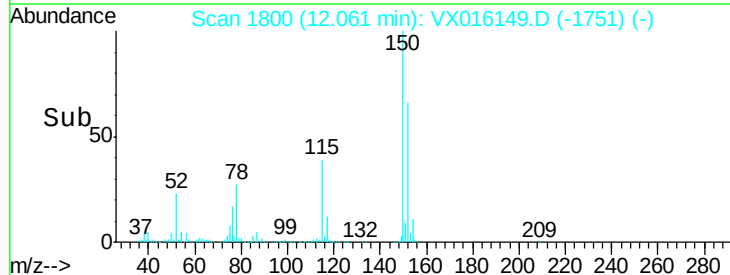
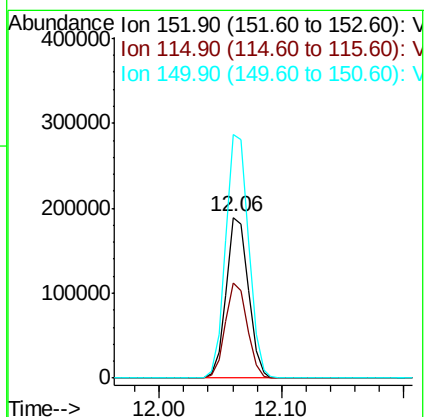
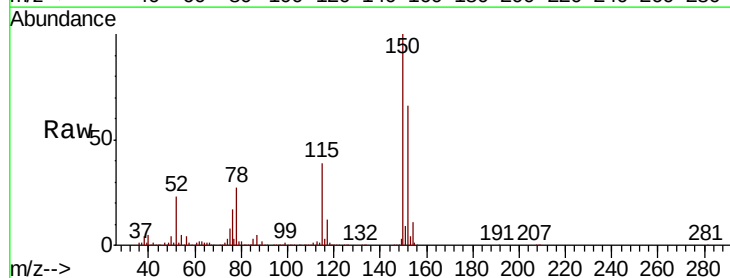
Instrument :
MSVOA_X
ClientSampleId :
Z4-DUP-0552-200507

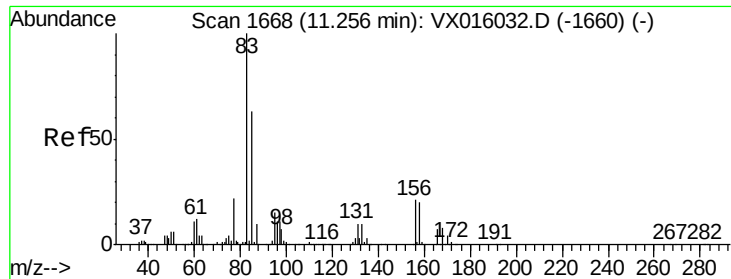
Tot Ion:	164	Resp:	5198
Ion	Ratio	Lower	Upper
164	100		
166	133.5	102.9	154.3
129	99.2	76.1	114.1
131	88.9	71.9	107.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016149.D
Acq: 11 May 2020 15:19

Tgt Ion:	152	Resp:	236598
Ion	Ratio	Lower	Upper
152	100		
115	58.7	41.3	124.1
150	156.7	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.100 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Z4-DUP-0552-200507

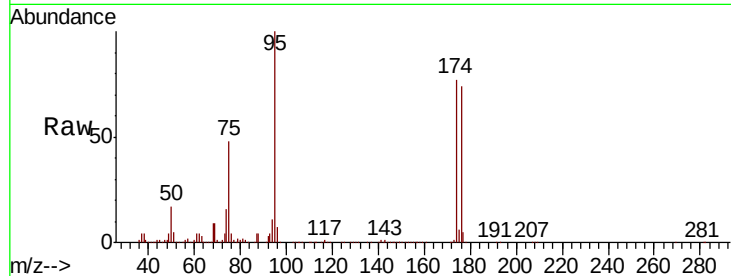
Tot Ion: 83 Resp: 163

Ion Ratio Lower Upper

83 100

131 189.0 5.1 15.4#

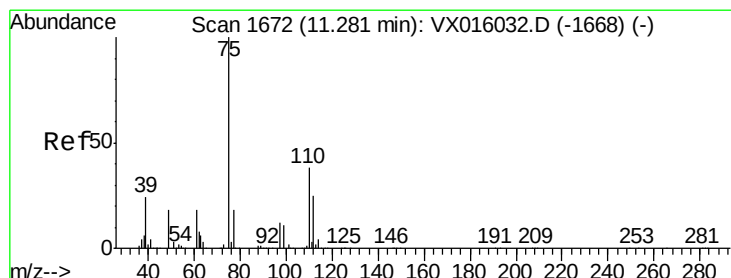
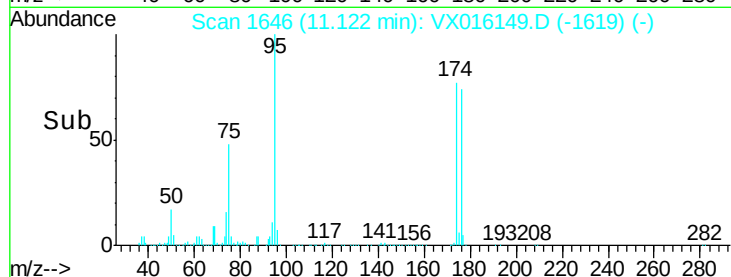
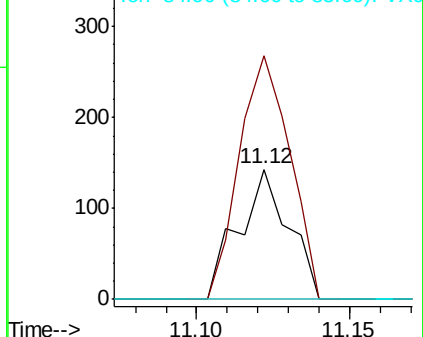
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.609 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016149.D

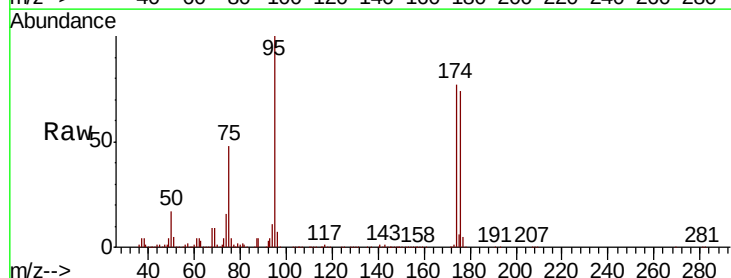
Acq: 11 May 2020 15:19

Tgt Ion: 75 Resp: 116017

Ion Ratio Lower Upper

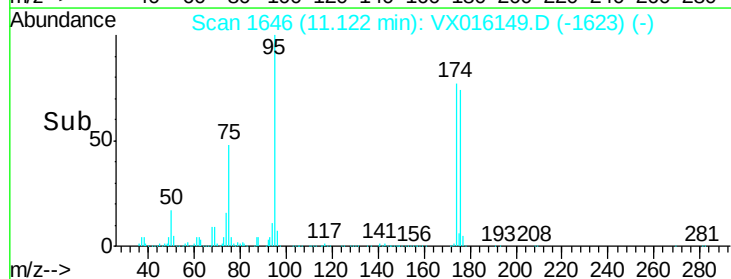
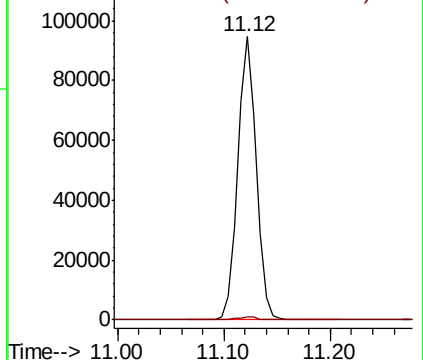
75 100

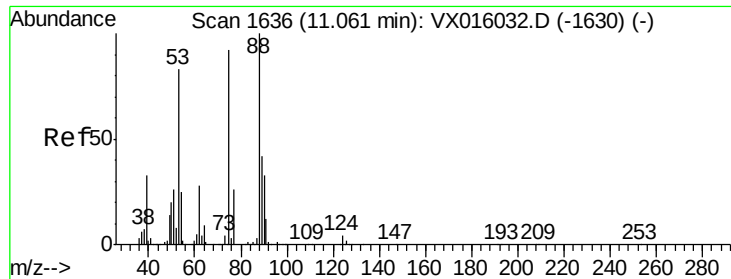
77 1.3 21.2 63.6#



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: 51.496 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

Instrument :

MSVOA_X

ClientSampleId :

Z4-DUP-0552-200507

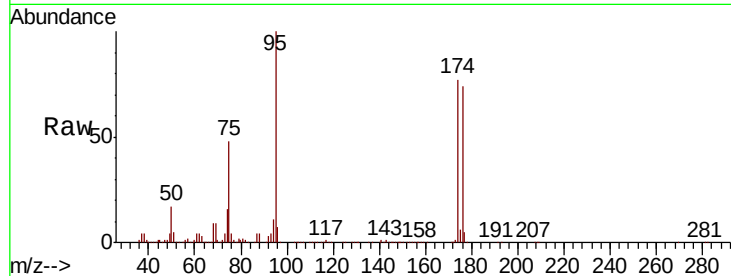
Tot Ion: 75 Resp: 116017

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

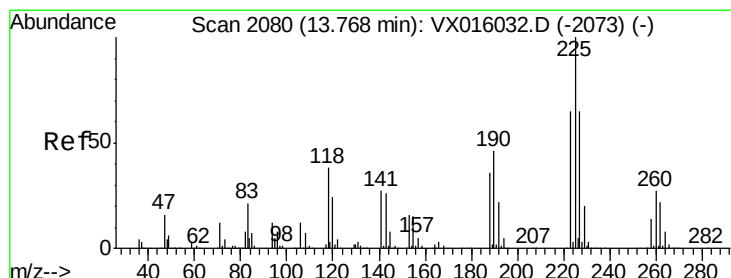
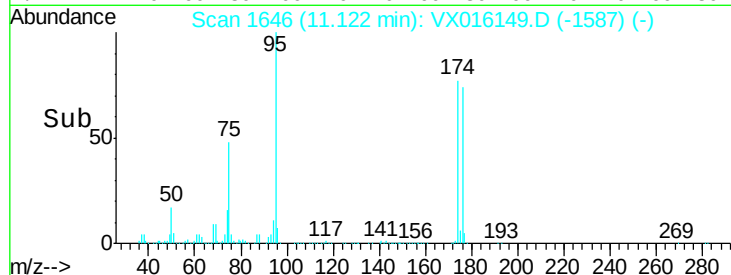
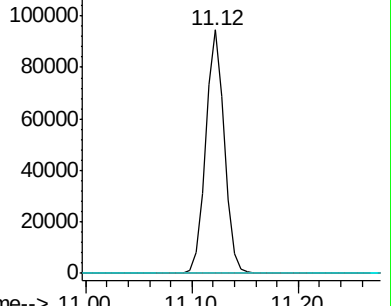
89 0.0 36.7 55.1#



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



#94

Hexachlorobutadiene

Concen: 0.566 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016149.D

Acq: 11 May 2020 15:19

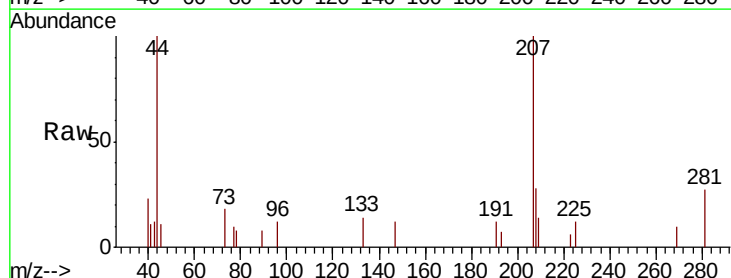
Tgt Ion: 225 Resp: 104

Ion Ratio Lower Upper

225 100

223 19.2 32.3 96.9#

227 0.0 31.8 95.4#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

