

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017309.D
 Acq On : 09 Jul 2020 15:48
 Operator : JC/SP
 Sample : L3235-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

Quant Time: Jul 10 06:39:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 09 12:25:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	51082	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	253941	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	241726	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	111020	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	11.12	95	106960	25.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.47%
63) Toluene-d8	8.70	98	301968	29.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.43%

Target Compounds

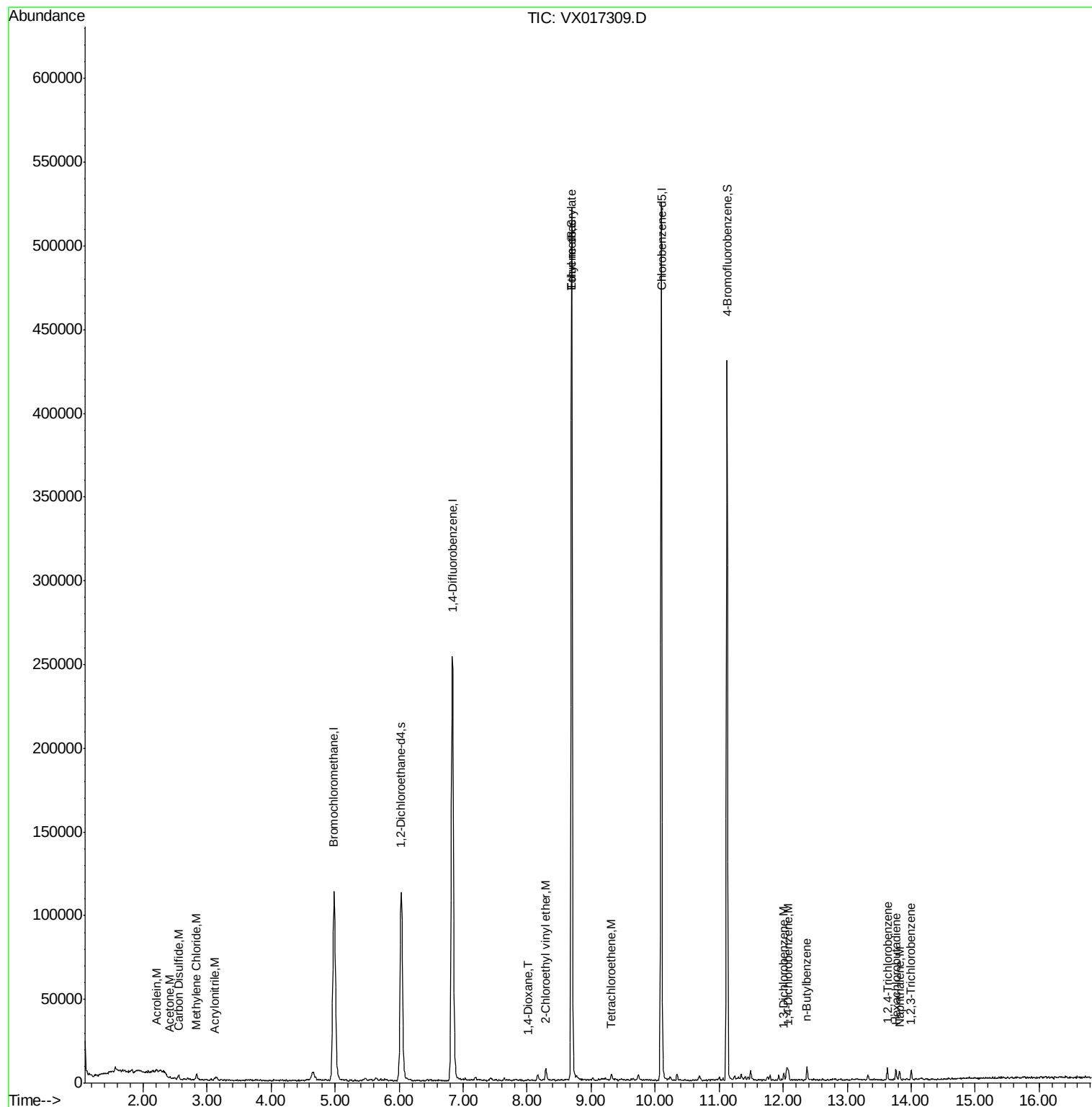
					Ovalue
13) Acrolein	2.21	56	206	0.487 ug/l	98
14) Acrylonitrile	3.12	53	471	0.319 ug/l #	40
15) Acetone	2.42	58	164	0.441 ug/l #	24
16) Carbon Disulfide	2.56	76	2889	0.454 ug/l	95
18) Methylene Chloride	2.83	84	1494	0.517 ug/l #	90
45) 1,4-Dioxane	8.02	88	49	0.820 ug/l #	1
51) Ethyl methacrylate	8.70	69	1111	0.262 ug/l	68
55) 2-Chloroethyl vinyl ether	8.29	63	2206	19.636 ug/l #	83
61) Tetrachloroethene	9.32	164	676	0.220 ug/l	88
83) 1,3-Dichlorobenzene	12.01	146	1429	0.218 ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	1603	0.242 ug/l	94
85) n-Butylbenzene	12.37	91	2159	0.217 ug/l	98
89) 1,2,4-Trichlorobenzene	13.63	180	1572	0.370 ug/l	84
90) Hexachlorobutadiene	13.76	225	911	0.534 ug/l	91
91) Naphthalene	13.82	128	2989	0.229 ug/l #	92
92) 1,2,3-Trichlorobenzene	14.01	180	1300	0.307 ug/l	91

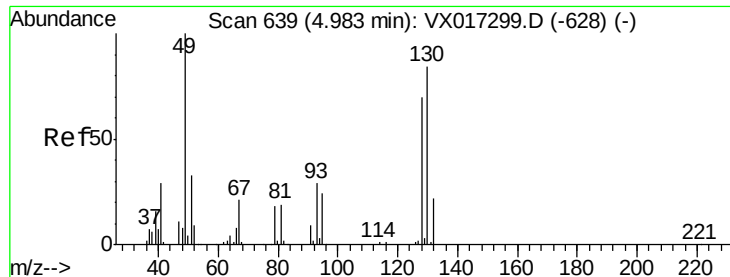
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070920\
Data File : VX017309.D
Acq On : 09 Jul 2020 15:48
Operator : JC/SP
Sample : L3235-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

Quant Time: Jul 10 06:39:00 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X070920W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 09 12:25:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.99 min Scan# 640

Delta R.T. 0.01 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

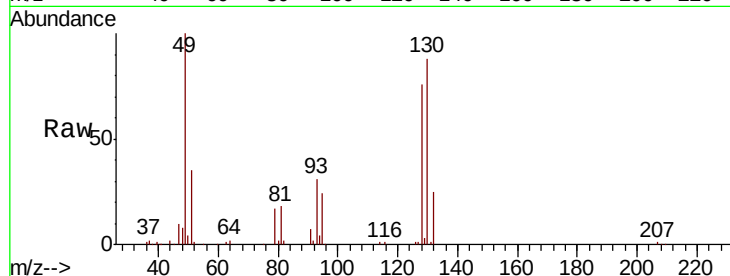
Tot Ion:128 Resp: 51082

Ion Ratio Lower Upper

128 100

49 142.6 0.0 358.8

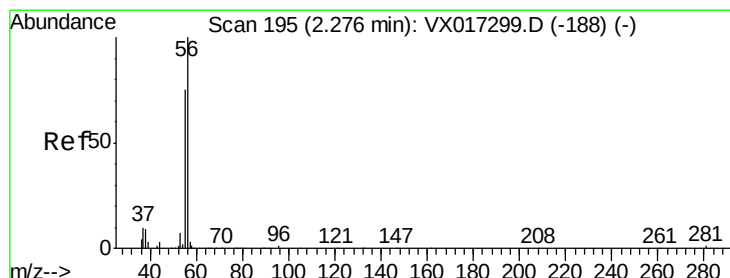
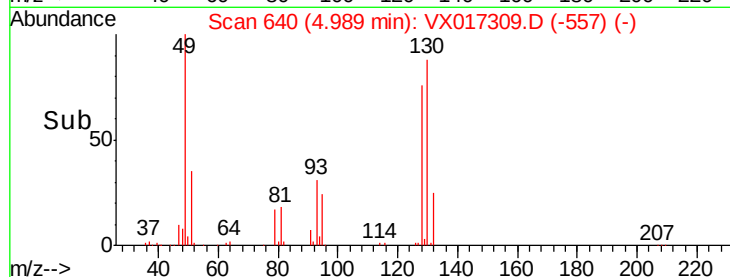
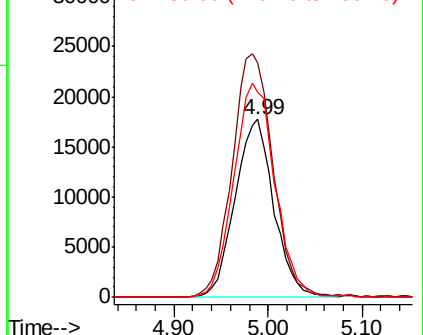
130 128.1 0.0 323.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.487 ug/l

RT: 2.21 min Scan# 185

Delta R.T. -0.06 min

Lab File: VX017309.D

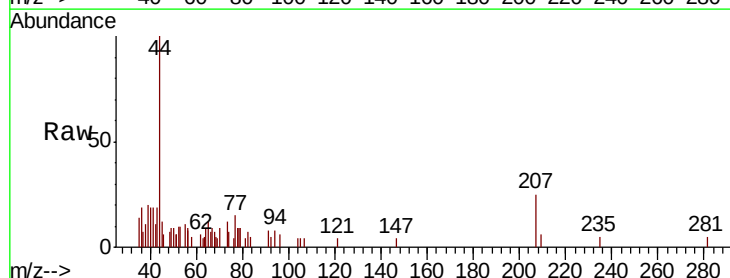
Acq: 09 Jul 2020 15:48

Tgt Ion: 56 Resp: 206

Ion Ratio Lower Upper

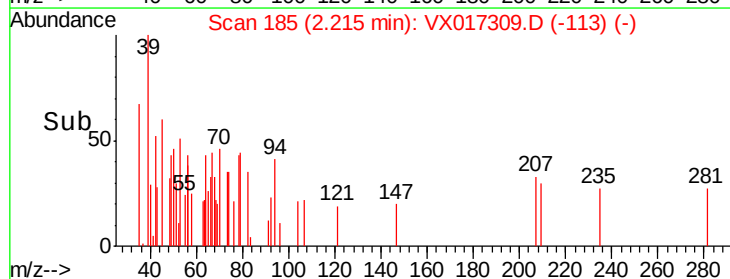
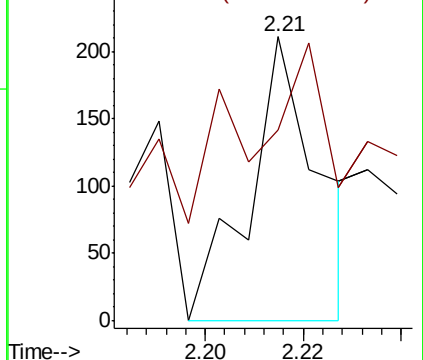
56 100

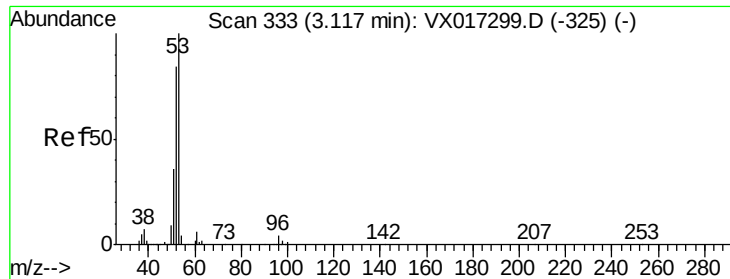
55 71.4 58.5 87.7



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#14

Acrylonitrile

Concen: 0.319 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

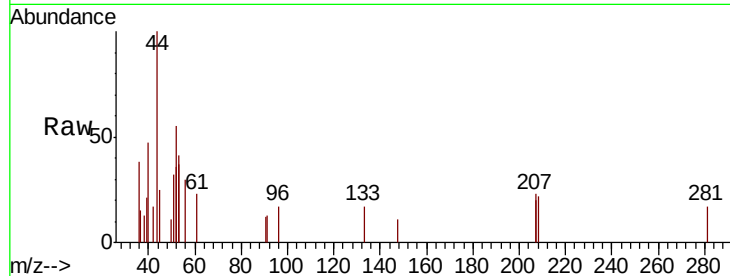
Tot Ion: 53 Resp: 471

Ion Ratio Lower Upper

53 100

52 132.3 41.3 123.9#

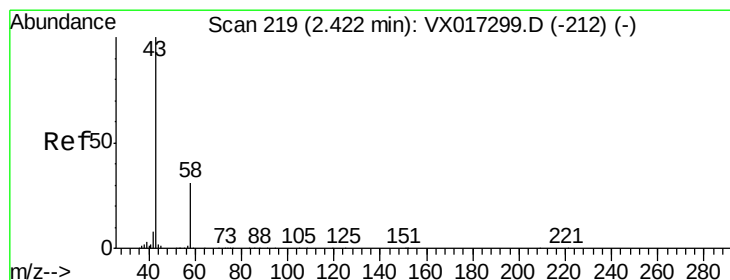
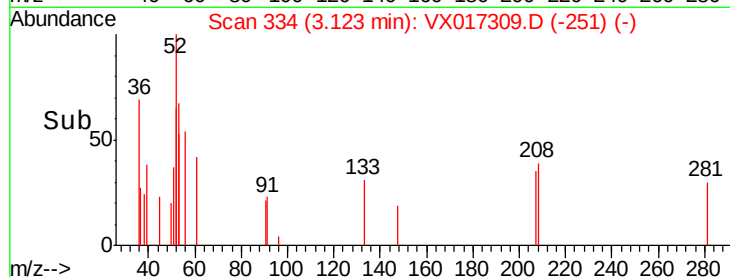
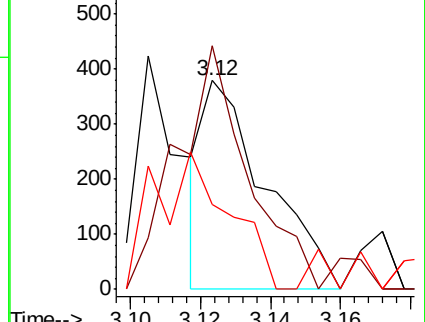
51 77.3 18.1 54.1#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#15

Acetone

Concen: 0.441 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017309.D

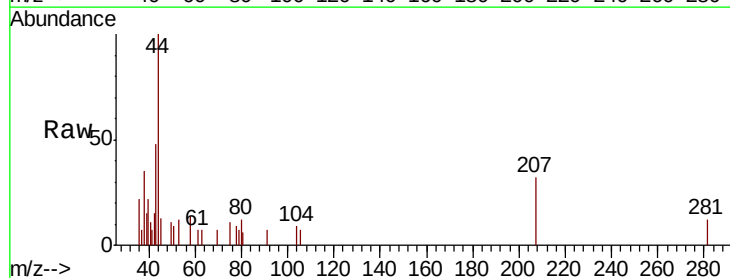
Acq: 09 Jul 2020 15:48

Tgt Ion: 58 Resp: 164

Ion Ratio Lower Upper

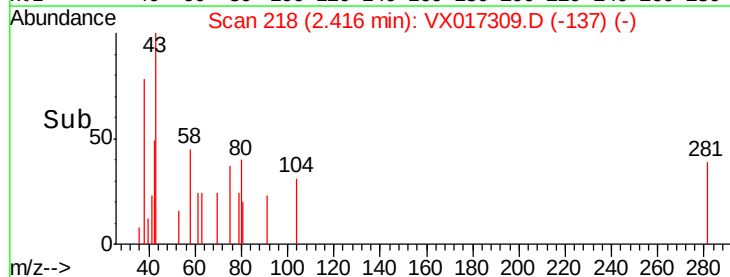
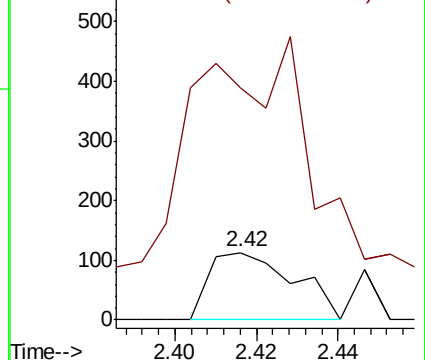
58 100

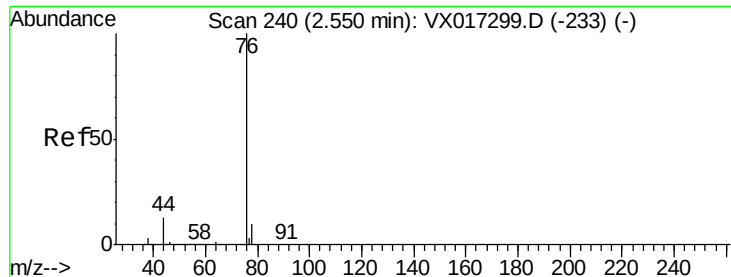
43 162.8 255.0 382.4#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#16

Carbon Disulfide

Concen: 0.454 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampled :

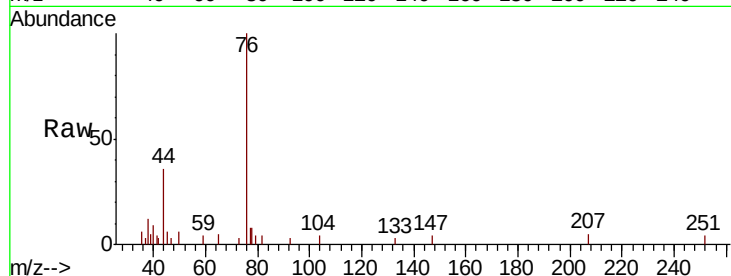
TRIP-BLANK

Tot Ion: 76 Resp: 2889

Ion Ratio Lower Upper

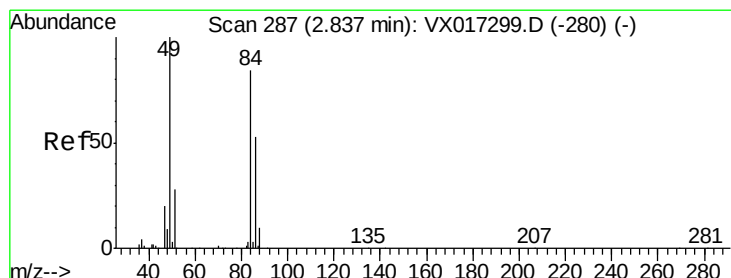
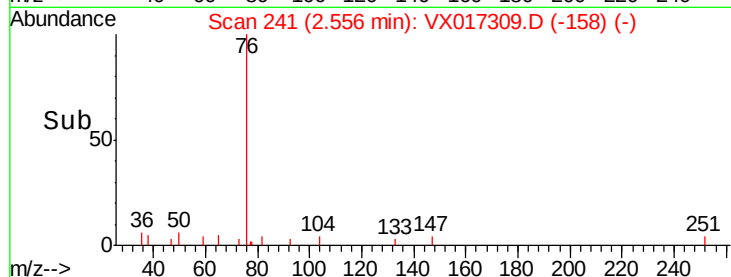
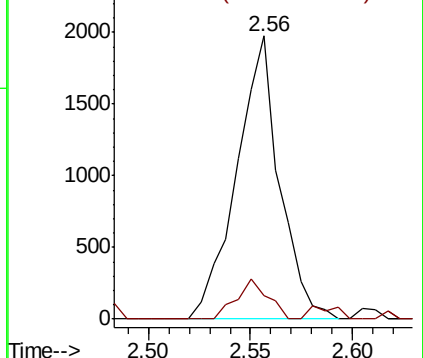
76 100

78 8.2 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



#18

Methylene Chloride

Concen: 0.517 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Tgt Ion: 84 Resp: 1494

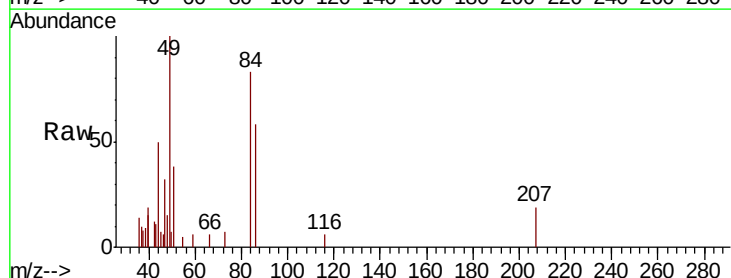
Ion Ratio Lower Upper

84 100

49 128.8 95.7 143.5

51 46.2 27.2 40.8#

86 69.4 50.6 76.0

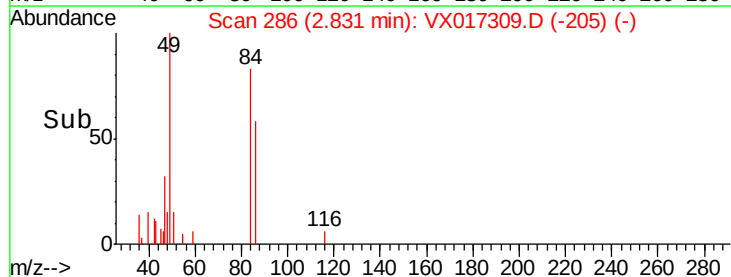
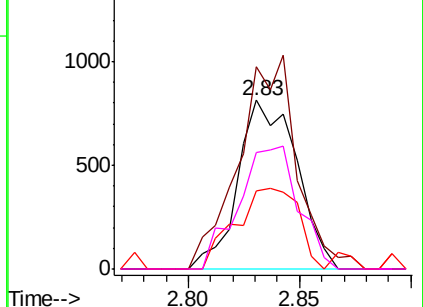


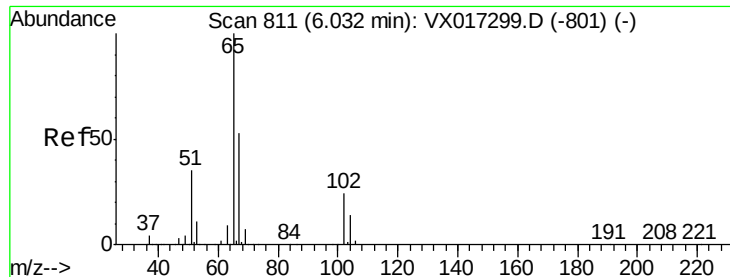
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

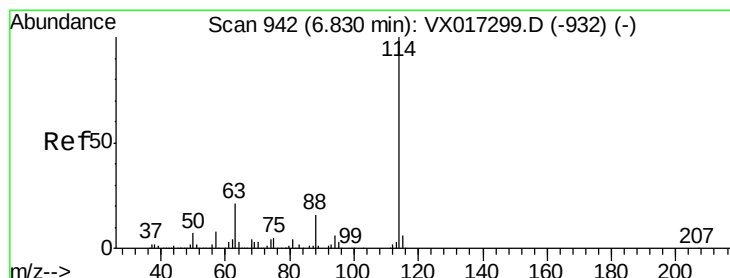
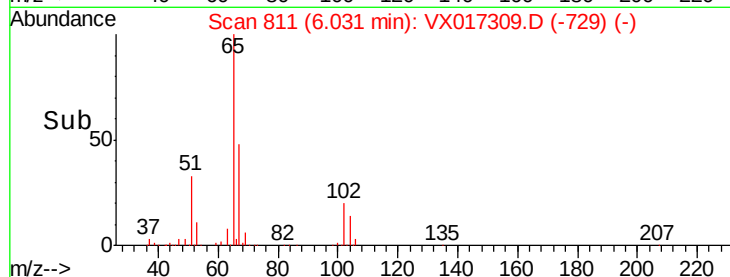
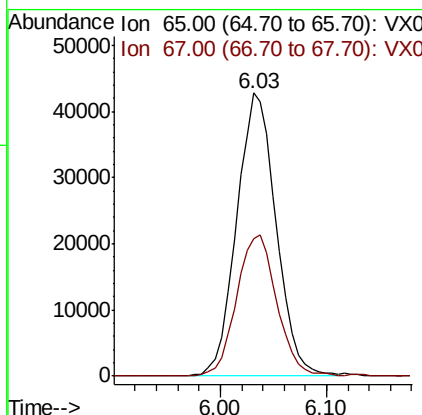
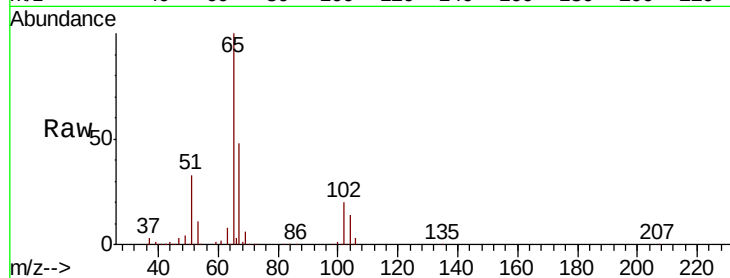




#27
 1,2-Dichloroethane-d4
 Concen: 30.239 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

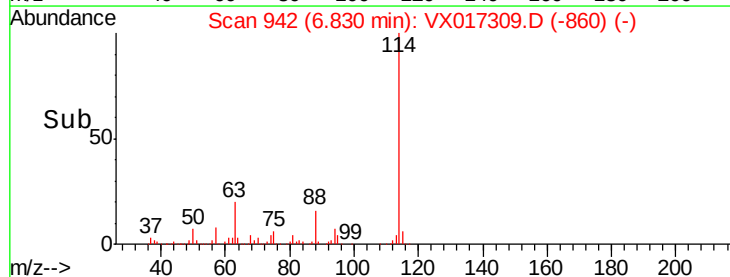
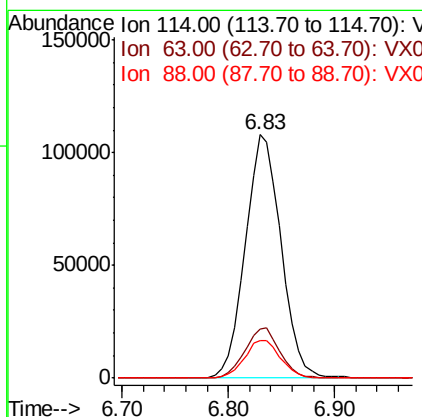
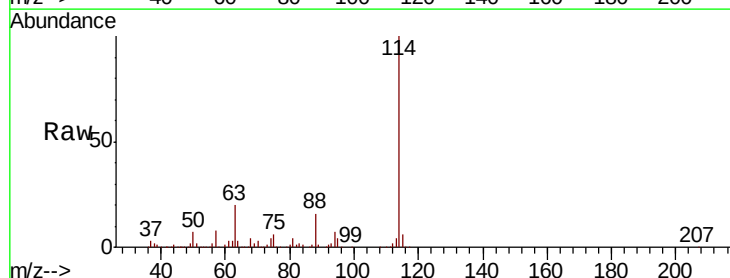
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

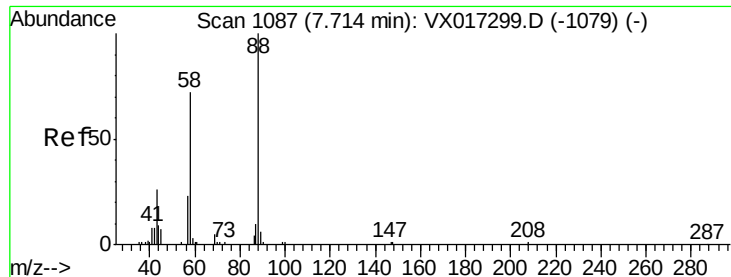
Tot Ion: 65 Resp: 111020
 Ion Ratio Lower Upper
 65 100
 67 50.9 41.0 61.6



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

Tgt Ion: 114 Resp: 253941
 Ion Ratio Lower Upper
 114 100
 63 20.1 15.9 23.9
 88 15.8 12.4 18.6

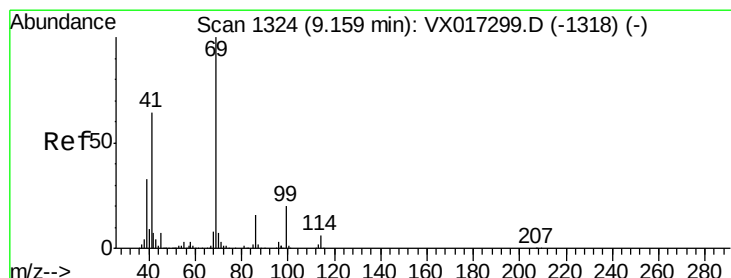
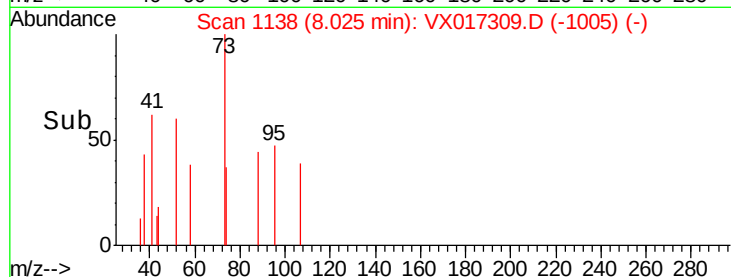
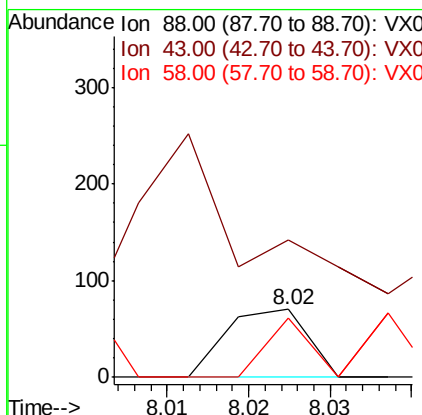
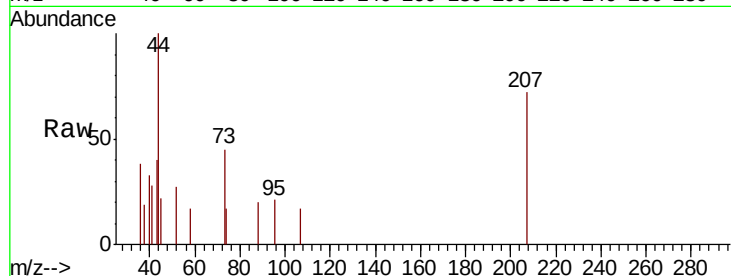




#45
 1,4-Dioxane
 Concen: 0.820 ug/l
 RT: 8.02 min Scan# 1138
 Delta R.T. 0.31 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

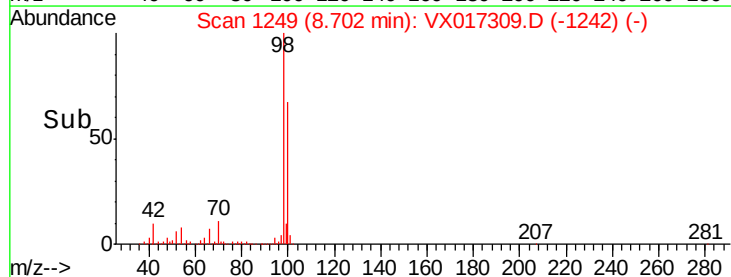
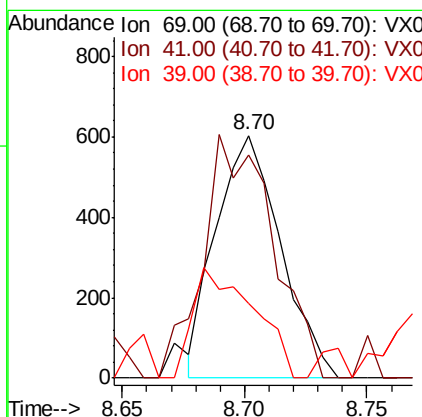
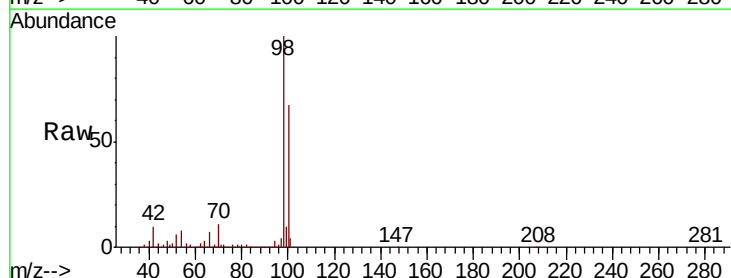
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

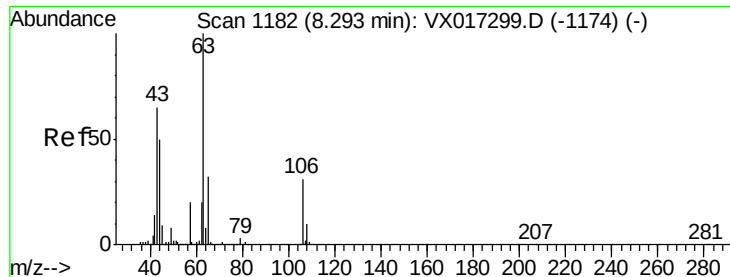
Tot Ion: 88 Resp: 49
 Ion Ratio Lower Upper
 88 100
 43 249.0 29.0 43.4#
 58 44.9 58.3 87.5#



#51
 Ethyl methacrylate
 Concen: 0.262 ug/l
 RT: 8.70 min Scan# 1249
 Delta R.T. -0.46 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

Tgt Ion: 69 Resp: 1111
 Ion Ratio Lower Upper
 69 100
 41 91.9 32.1 96.5
 39 18.2 16.3 48.9





#55

2-Chloroethyl vinyl ether

Concen: 19.636 ug/l

RT: 8.29 min Scan# 1182

Delta R.T. 0.00 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

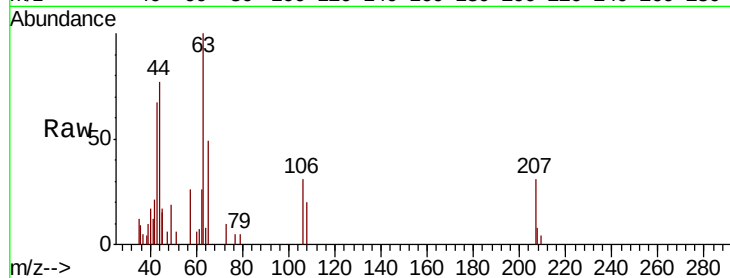
Tot Ion: 63 Resp: 2206

Ion Ratio Lower Upper

63 100

65 45.6 25.4 38.0#

106 35.5 24.5 36.7

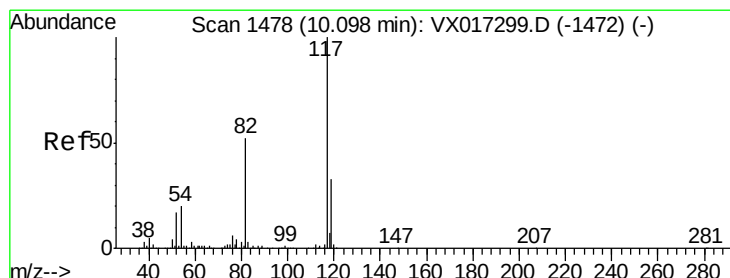
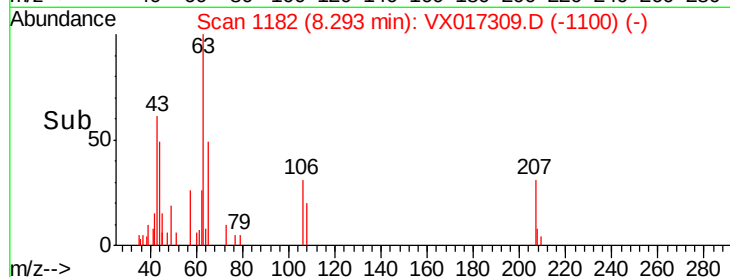
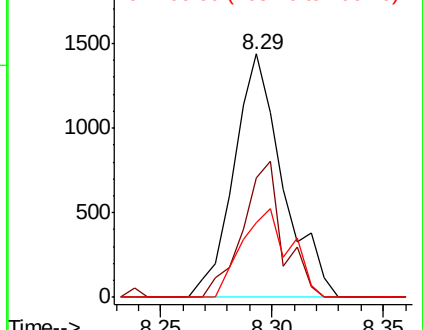


Abundance

Ion 63.00 (62.70 to 63.70): VX0

Ion 65.00 (64.70 to 65.70): VX0

Ion 106.00 (105.70 to 106.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

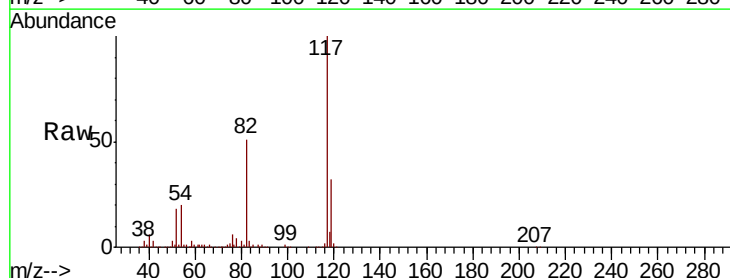
Tgt Ion: 117 Resp: 241726

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.4

119 32.2 26.4 39.6

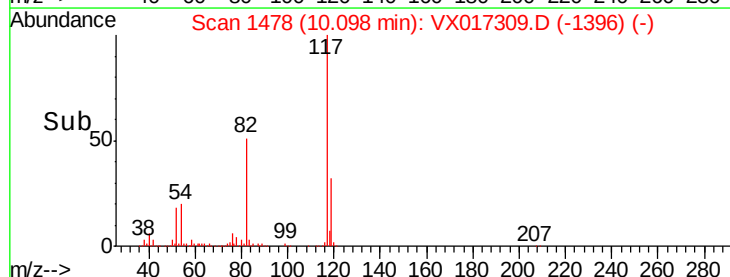
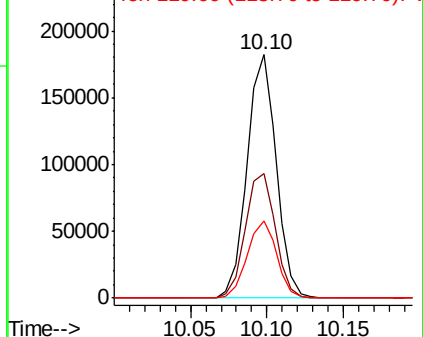


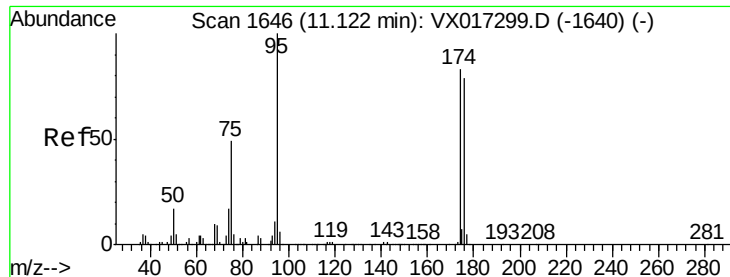
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

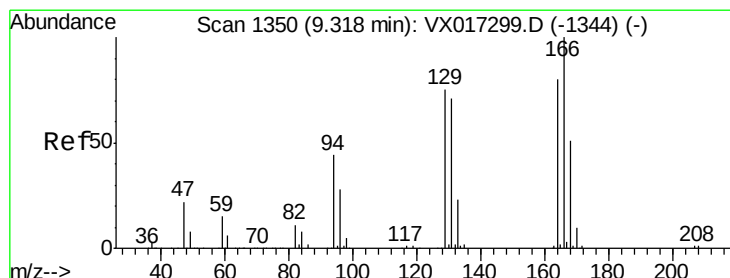
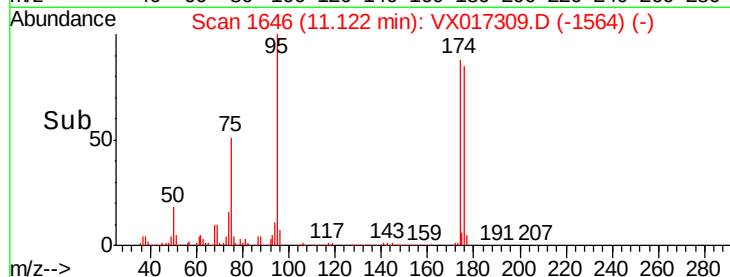
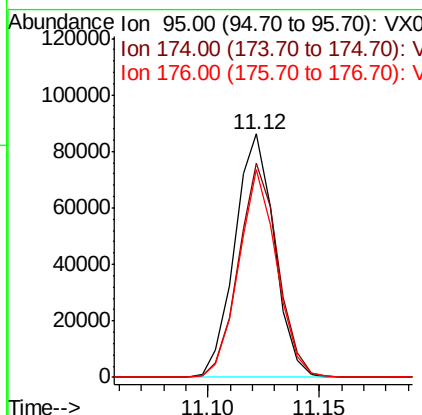
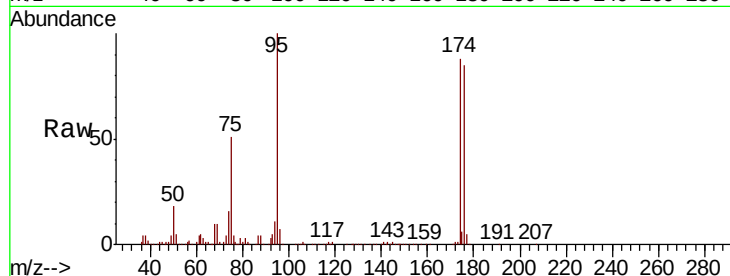




#60
4-Bromofluorobenzene
Concen: 25.937 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017309.D
Acq: 09 Jul 2020 15:48

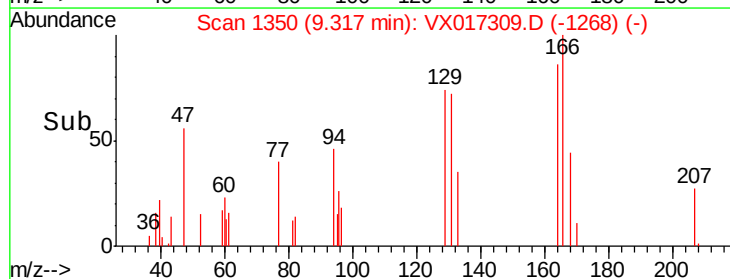
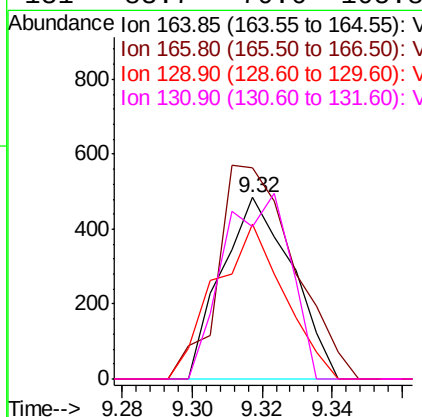
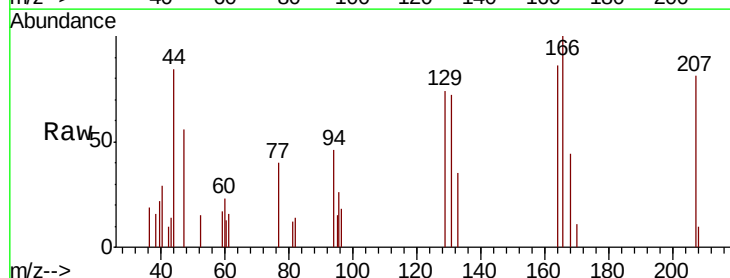
Instrument :
MSVOA_X
ClientSampleId :
TRIP-BLANK

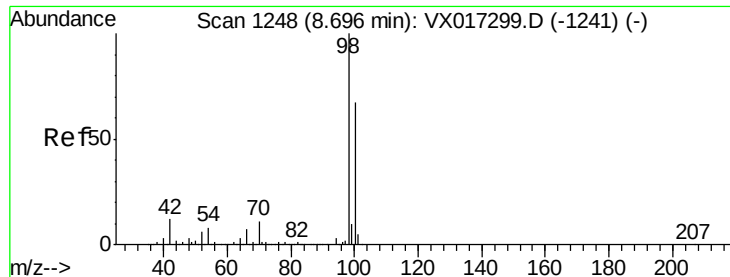
Tot Ion: 95 Resp: 106960
Ion Ratio Lower Upper
95 100
174 87.4 66.9 100.3
176 82.6 65.5 98.3



#61
Tetrachloroethene
Concen: 0.220 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX017309.D
Acq: 09 Jul 2020 15:48

Tgt Ion: 164 Resp: 676
Ion Ratio Lower Upper
164 100
166 101.9 99.8 149.6
129 85.7 74.4 111.6
131 83.7 70.6 105.8





#63

Toluene-d8

Concen: 29.533 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

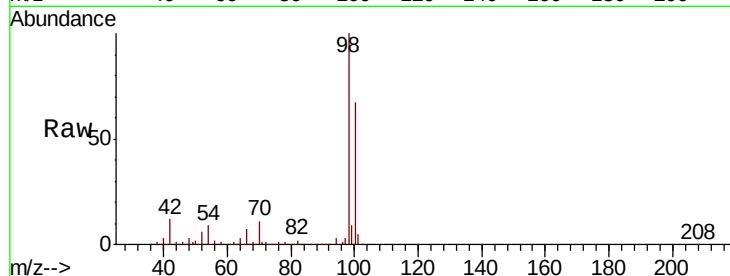
TRIP-BLANK

Tot Ion: 98 Resp: 301968

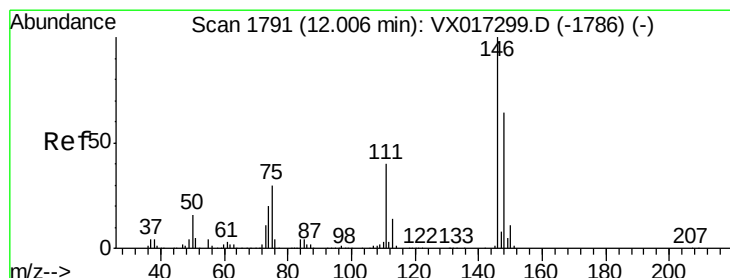
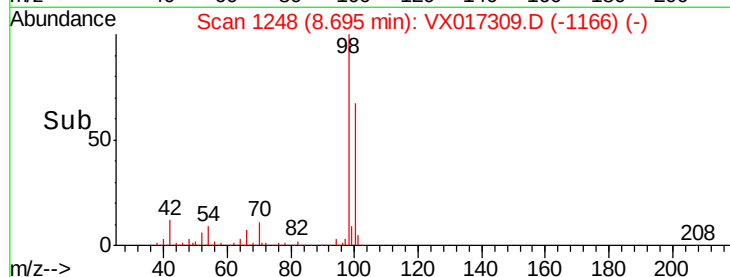
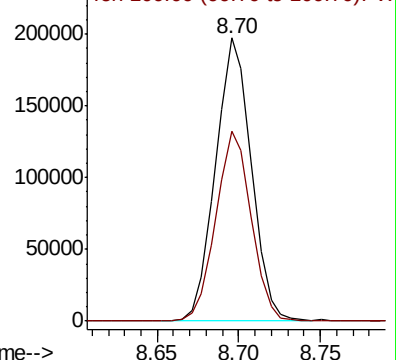
Ion Ratio Lower Upper

98 100

100 66.3 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VX017299.D (-1241) (-)



#83

1,3-Dichlorobenzene

Concen: 0.218 ug/l

RT: 12.01 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

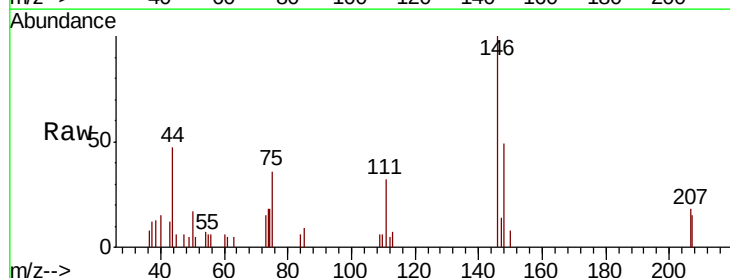
Tgt Ion: 146 Resp: 1429

Ion Ratio Lower Upper

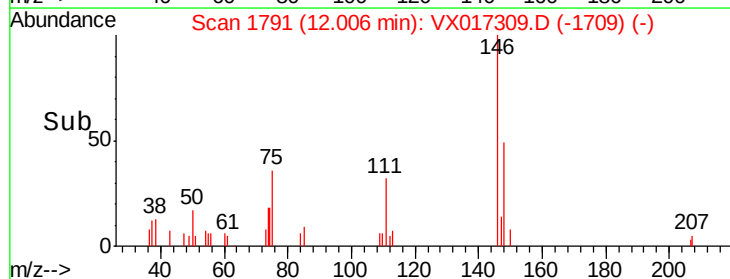
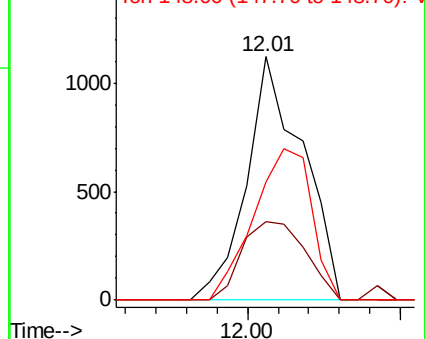
146 100

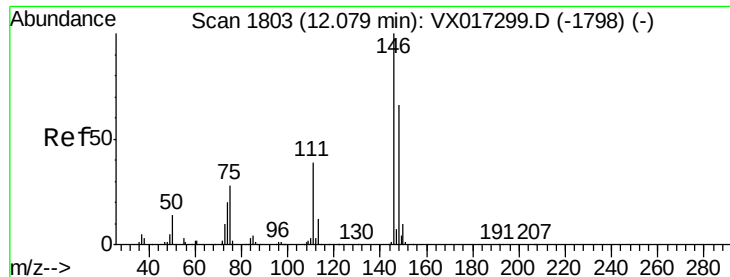
111 36.7 19.5 58.5

148 64.5 31.8 95.3



Abundance Ion 146.00 (145.70 to 146.70): VX017299.D (-1786) (-)

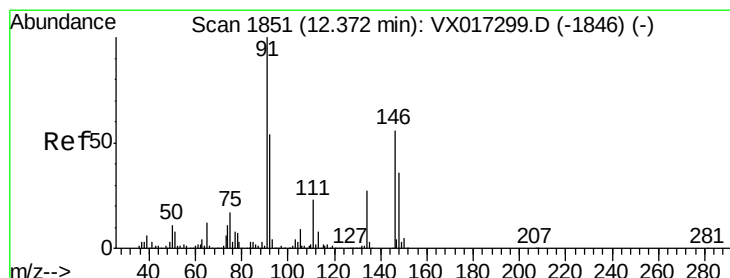
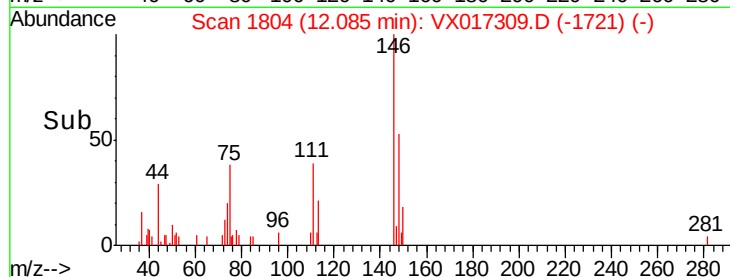
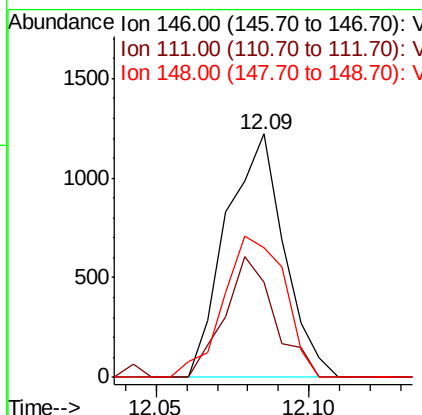
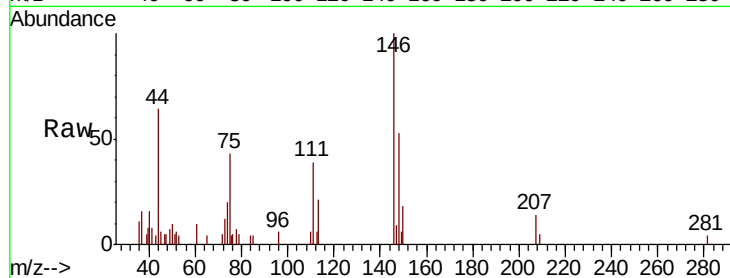




#84
 1,4-Dichlorobenzene
 Concen: 0.242 ug/l
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

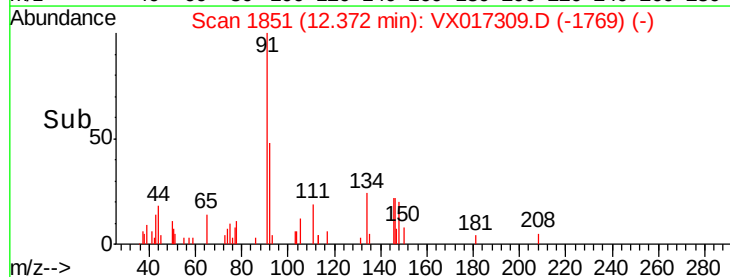
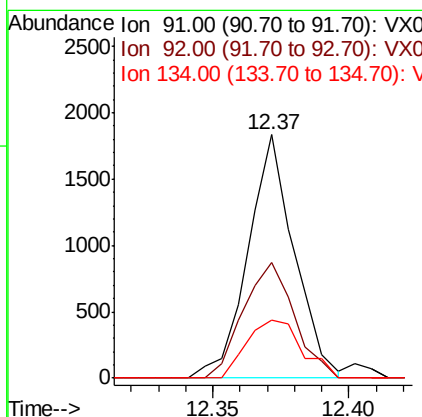
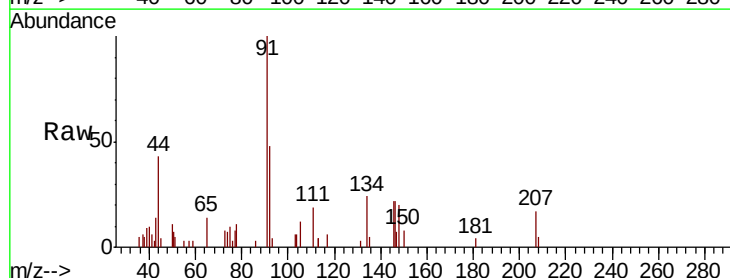
Instrument :
 MSVOA_X
 ClientSampled :
 TRIP-BLANK

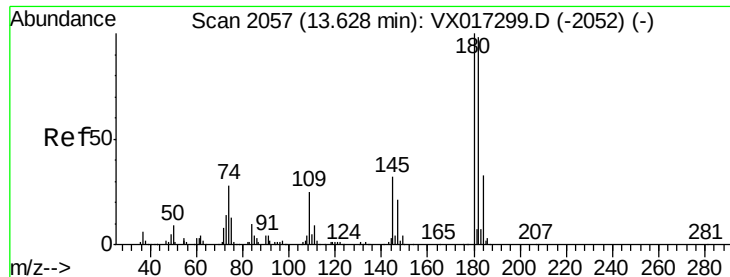
Tot Ion:146 Resp: 1603
 Ion Ratio Lower Upper
 146 100
 111 42.5 19.1 57.3
 148 61.3 32.6 97.8



#85
 n-Butylbenzene
 Concen: 0.217 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

Tgt Ion: 91 Resp: 2159
 Ion Ratio Lower Upper
 91 100
 92 52.6 0.0 108.2
 134 28.4 0.0 54.2

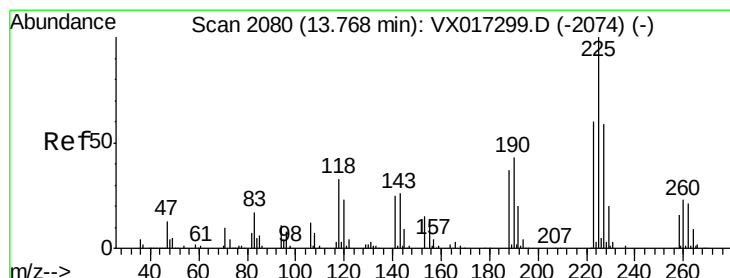
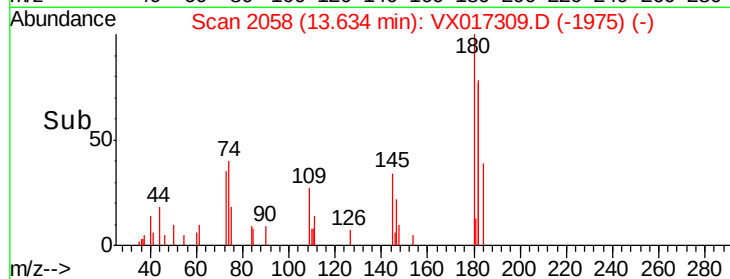
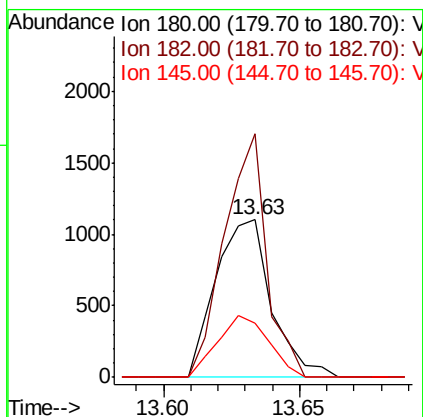
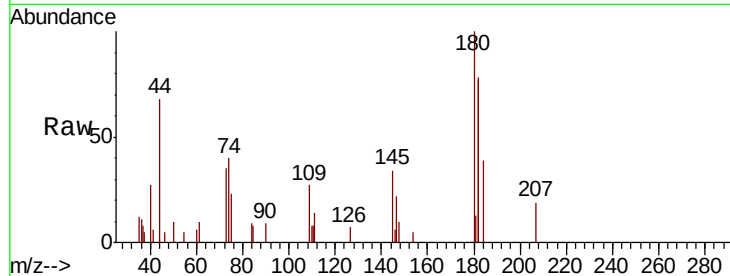




#89
 1,2,4-Trichlorobenzene
 Concen: 0.370 ug/l
 RT: 13.63 min Scan# 2058
 Delta R.T. 0.01 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

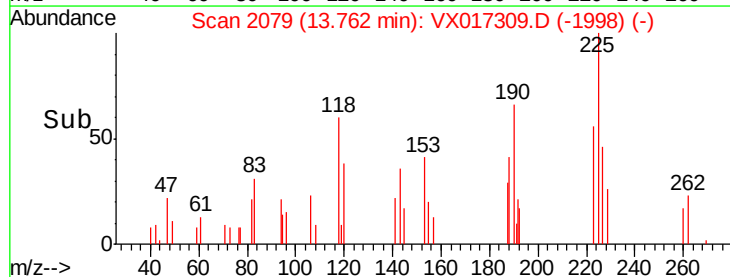
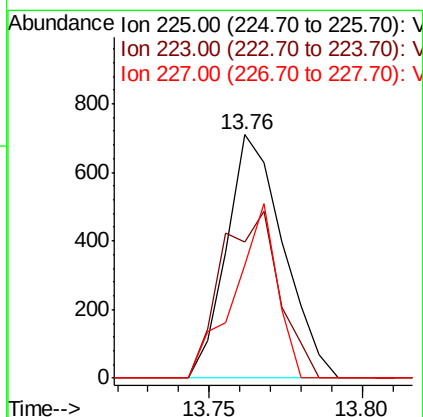
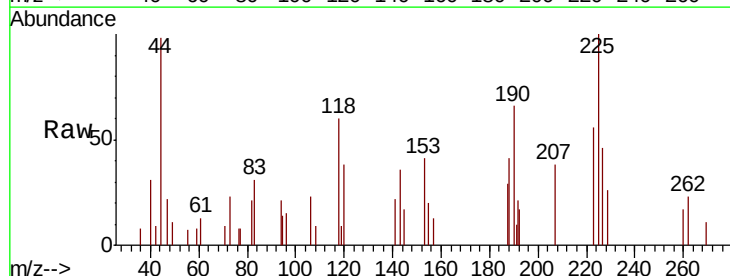
Instrument :
 MSVOA_X
 ClientSampleId :
 TRIP-BLANK

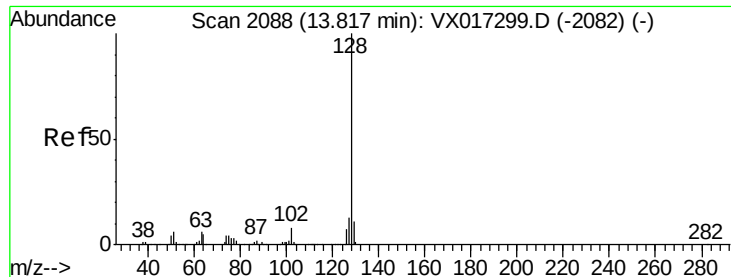
Tot Ion:180 Resp: 1572
 Ion Ratio Lower Upper
 180 100
 182 115.8 77.8 116.8
 145 35.7 25.0 37.4



#90
 Hexachlorobutadiene
 Concen: 0.534 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX017309.D
 Acq: 09 Jul 2020 15:48

Tgt Ion:225 Resp: 911
 Ion Ratio Lower Upper
 225 100
 223 70.7 0.0 129.0
 227 53.7 0.0 124.4





#91

Naphthalene

Concen: 0.229 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

Instrument :

MSVOA_X

ClientSampleId :

TRIP-BLANK

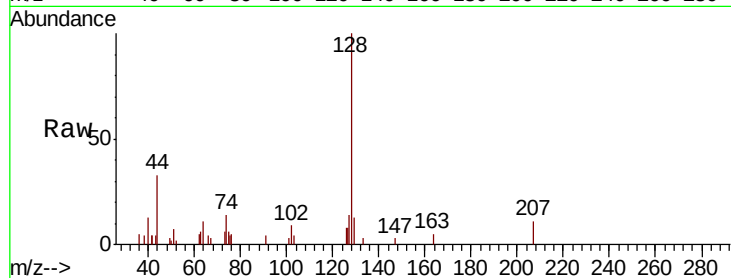
Tot Ion:128 Resp: 2989

Ion Ratio Lower Upper

128 100

127 16.2 10.3 15.5#

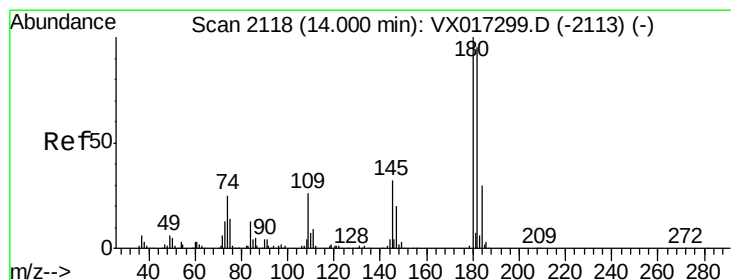
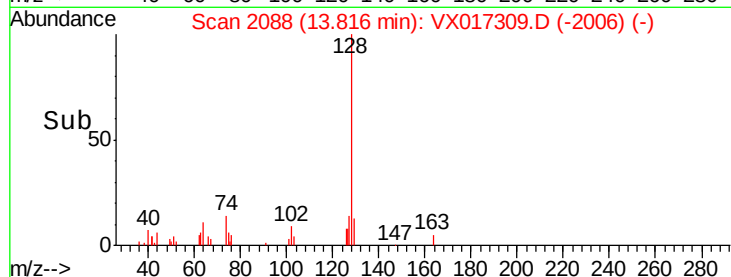
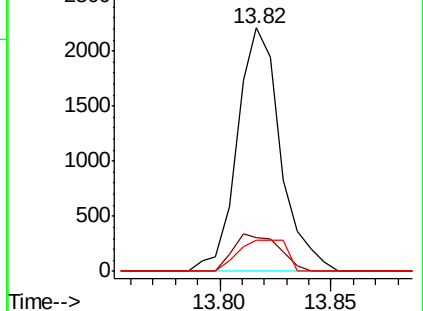
129 14.3 9.0 13.4#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.307 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX017309.D

Acq: 09 Jul 2020 15:48

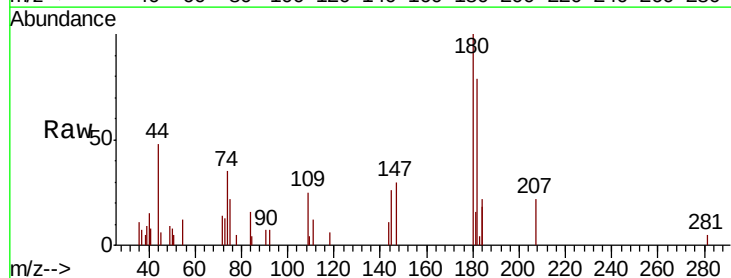
Tgt Ion:180 Resp: 1300

Ion Ratio Lower Upper

180 100

182 103.2 0.0 185.6

145 33.9 0.0 63.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

