

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070220\
 Data File : VX017151.D
 Acq On : 02 Jul 2020 16:17
 Operator : JC/SP
 Sample : PB129937TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB129937TB

Quant Time: Jul 03 00:52:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	220430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	363567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	372878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	199524	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	141775	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	5.47	113	122087	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
50) Toluene-d8	8.70	98	445796	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	11.12	95	183237	55.12	ug/l	0.00
Spiked Amount			Recovery	=	110.24%	

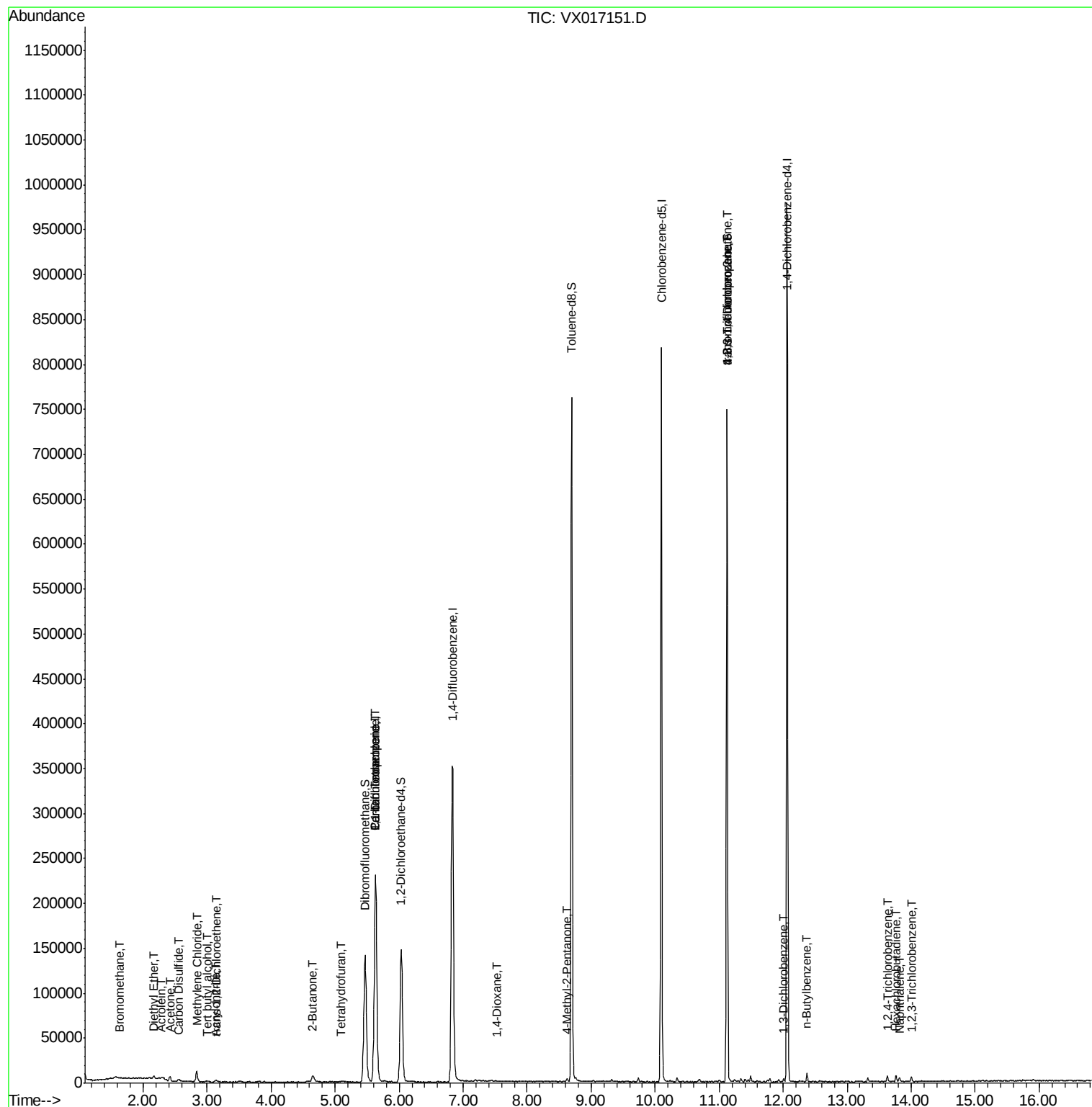
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	354	0.280	ug/l #	63
8) Diethyl Ether	2.16	74	1312	1.458	ug/l	91
11) Tert butyl alcohol	3.00	59	775	1.495	ug/l #	91
13) Acrolein	2.29	56	413	1.333	ug/l #	73
15) Acrylonitrile	3.12	53	435	0.349	ug/l	91
16) Acetone	2.42	43	5436	5.347	ug/l	94
17) Carbon Disulfide	2.56	76	2624	0.454	ug/l	96
20) Methylene Chloride	2.84	84	5478	1.592	ug/l	96
21) trans-1,2-Dichloroethene	3.14	96	603	0.249	ug/l	92
25) 2-Butanone	4.65	43	2348	1.386	ug/l #	75
29) Tetrahydrofuran	5.10	42	510	0.456	ug/l #	64
36) 1,1-Dichloropropene	5.63	75	15563	4.529	ug/l #	51
38) Carbon Tetrachloride	5.63	117	22635	5.981	ug/l #	17
44) Trichloroethene	7.20	130	653	Below Cal		78
49) 1,4-Dioxane	7.54	88	48	0.770	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	1619	0.469	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	91698	23.371	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	91698	60.523	ug/l #	13
87) 1,3-Dichlorobenzene	12.01	146	1428	0.219	ug/l	89
89) n-Butylbenzene	12.37	91	2249	0.216	ug/l	90
93) 1,2,4-Trichlorobenzene	13.63	180	2030	0.488	ug/l	80
94) Hexachlorobutadiene	13.76	225	961	1.442	ug/l	95
95) Naphthalene	13.81	128	2648	0.209	ug/l	96
96) 1,2,3-Trichlorobenzene	14.01	180	1455	0.361	ug/l	95

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

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :
PB129937TB

Quant Time: Jul 03 00:52:49 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

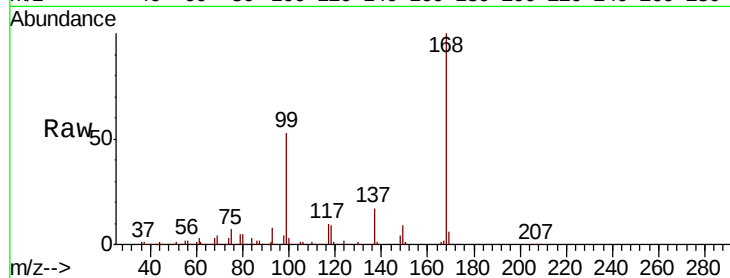
PB129937TB

Tot Ion:168 Resp: 220430

Ion Ratio Lower Upper

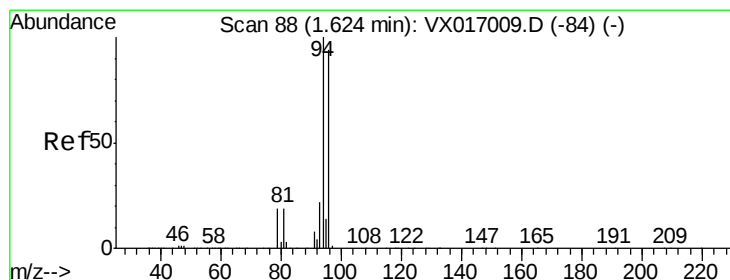
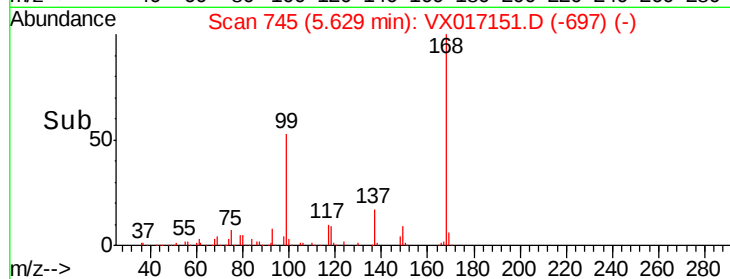
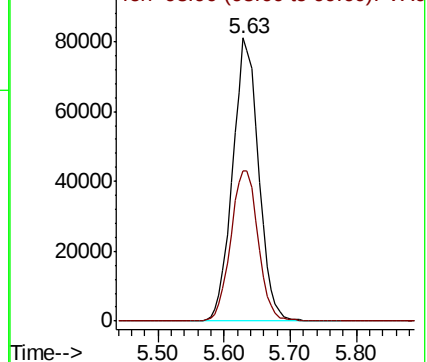
168 100

99 53.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.280 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017151.D

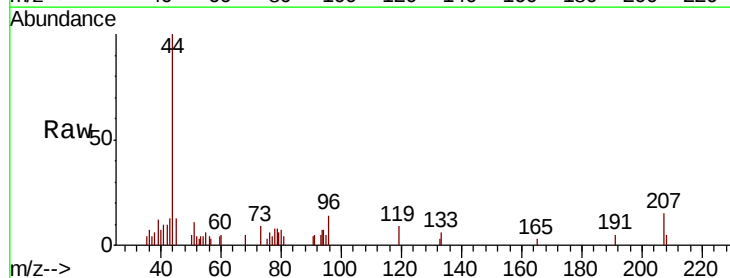
Acq: 02 Jul 2020 16:17

Tgt Ion: 94 Resp: 354

Ion Ratio Lower Upper

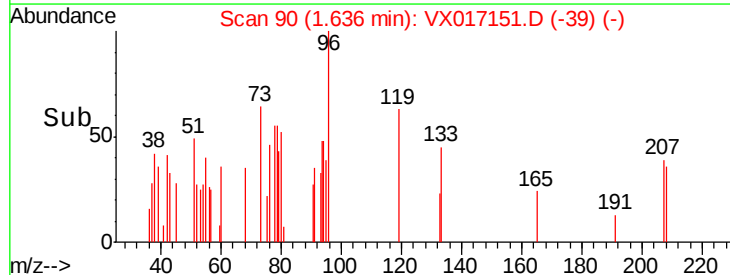
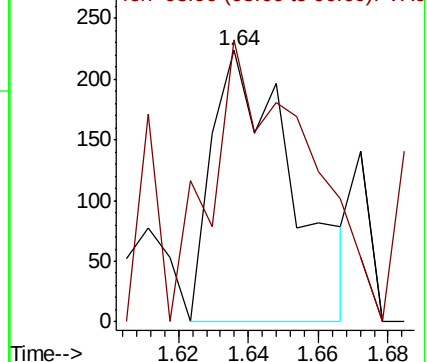
94 100

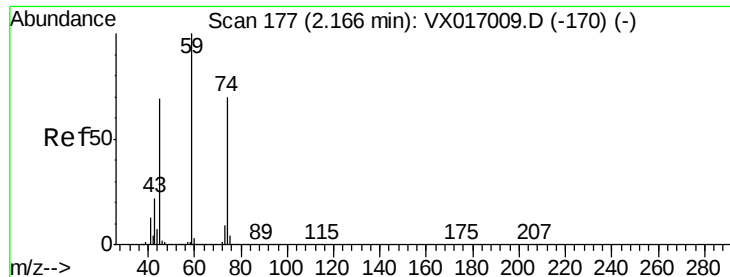
96 58.5 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 1.458 ug/l

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

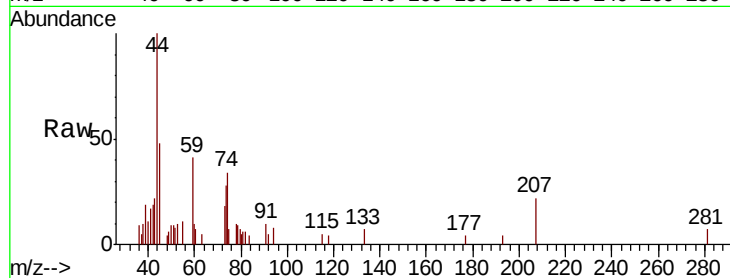
PB129937TB

Tot Ion: 74 Resp: 1312

Ion Ratio Lower Upper

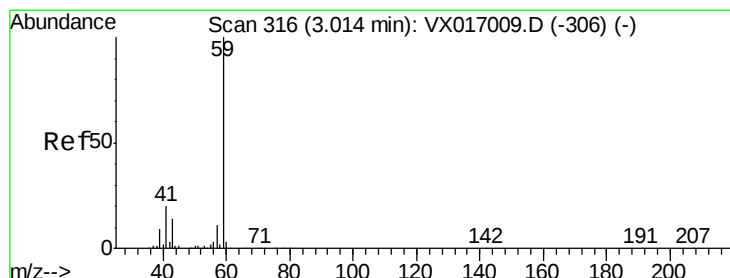
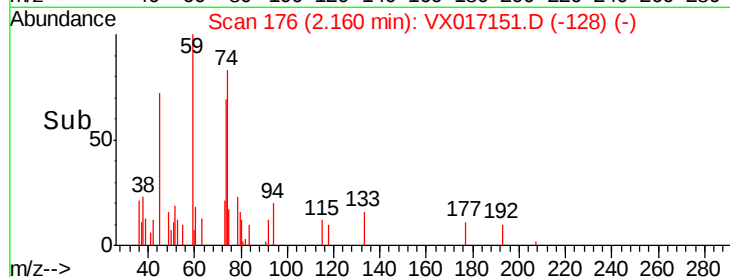
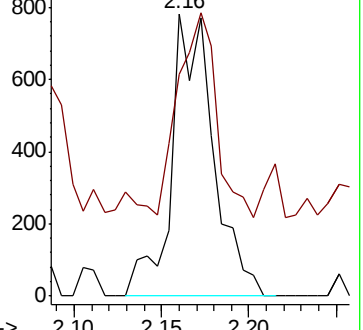
74 100

45 90.1 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 1.495 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX017151.D

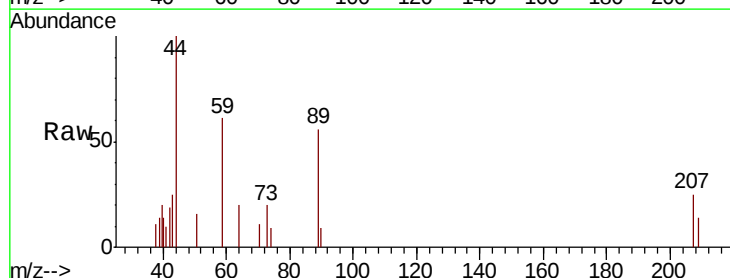
Acq: 02 Jul 2020 16:17

Tgt Ion: 59 Resp: 775

Ion Ratio Lower Upper

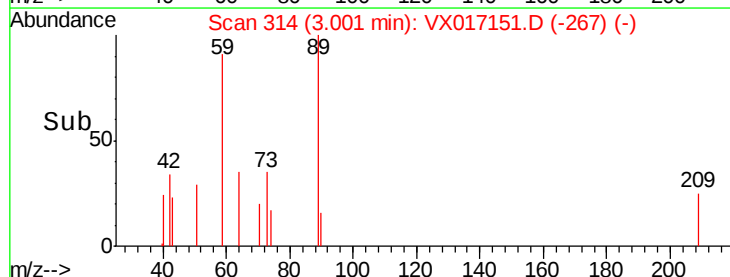
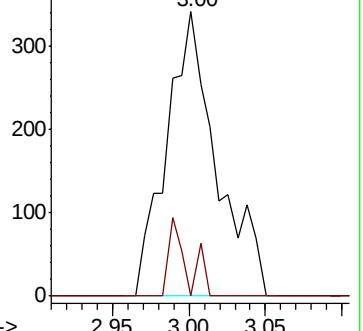
59 100

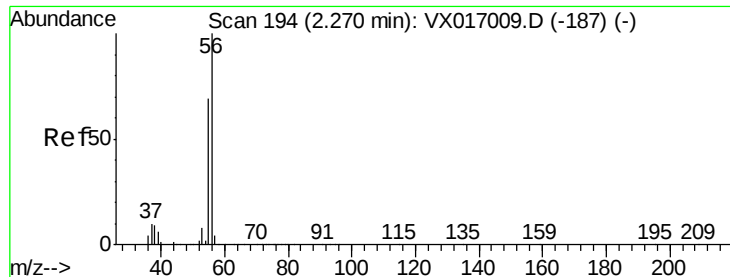
57 7.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.333 ug/l

RT: 2.29 min Scan# 197

Delta R.T. 0.02 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampled :

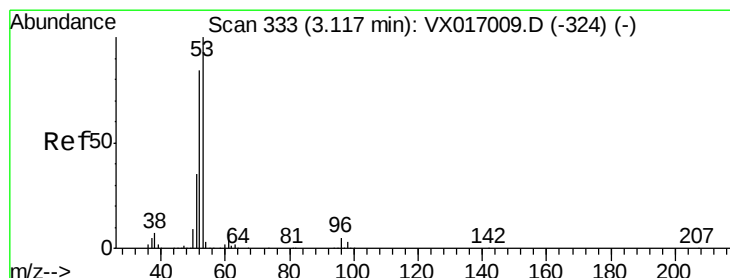
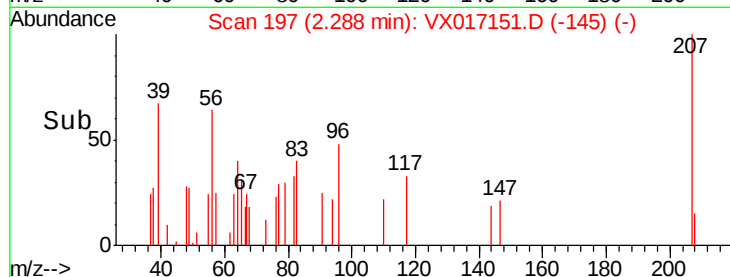
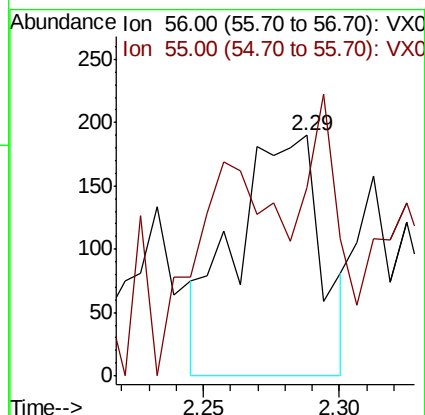
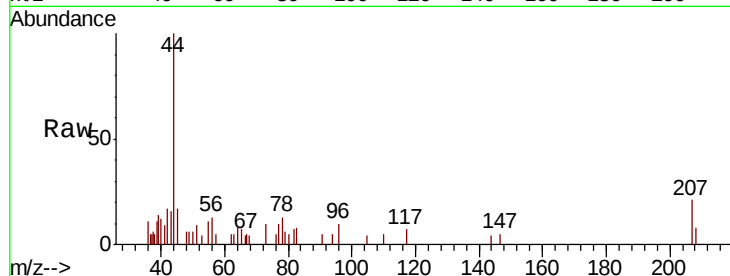
PB129937TB

Tot Ion: 56 Resp: 413

Ion Ratio Lower Upper

56 100

55 47.5 55.7 83.5#



#15

Acrylonitrile

Concen: 0.349 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

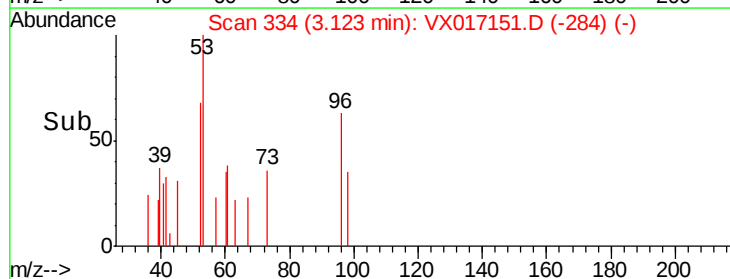
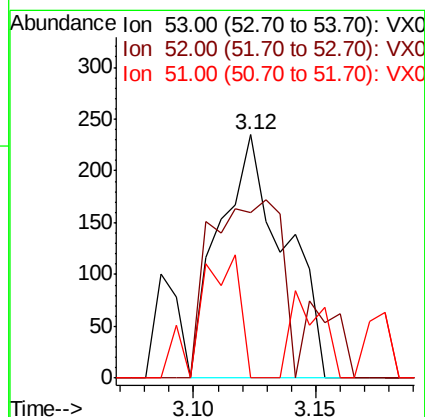
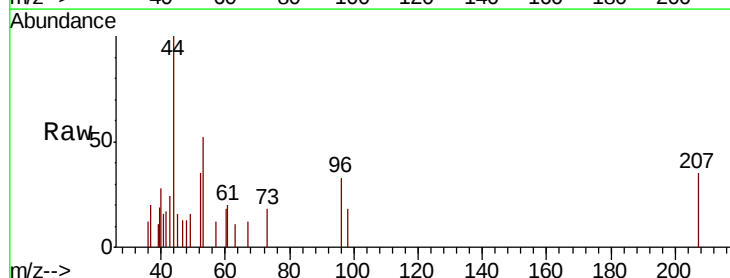
Tgt Ion: 53 Resp: 435

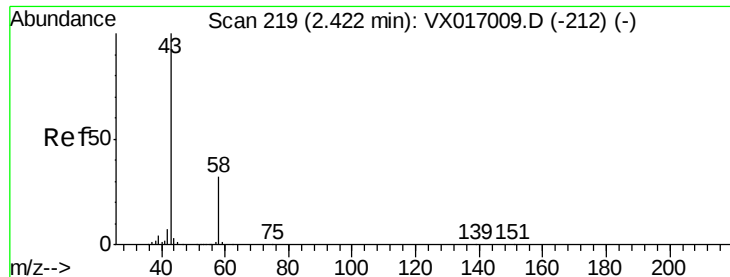
Ion Ratio Lower Upper

53 100

52 90.3 65.6 98.4

51 31.0 28.3 42.5





#16

Acetone

Concen: 5.347 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

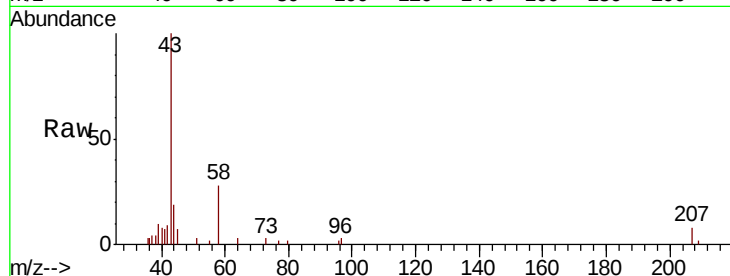
PB129937TB

Tot Ion: 43 Resp: 5436

Ion Ratio Lower Upper

43 100

58 28.8 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

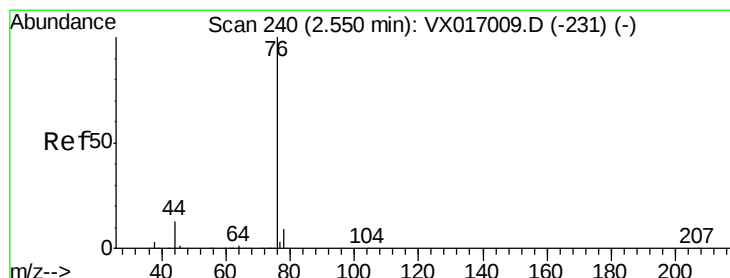
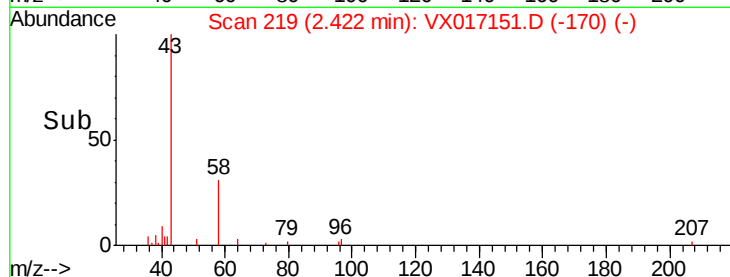
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.454 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017151.D

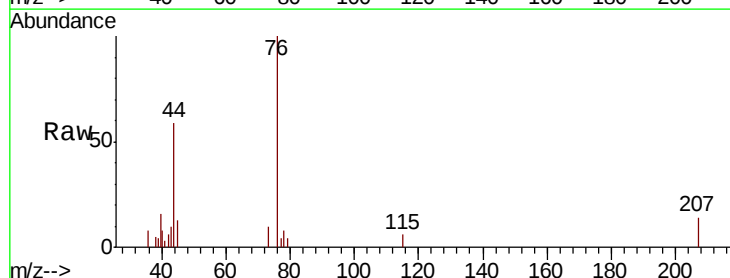
Acq: 02 Jul 2020 16:17

Tgt Ion: 76 Resp: 2624

Ion Ratio Lower Upper

76 100

78 7.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

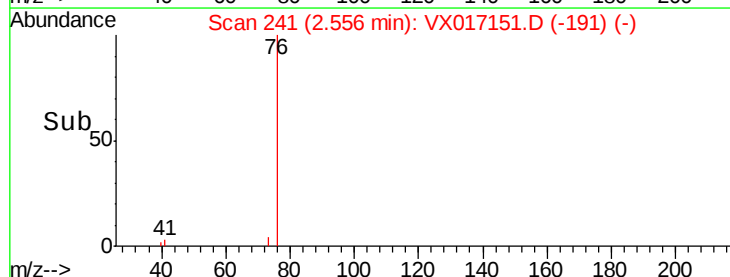
1500

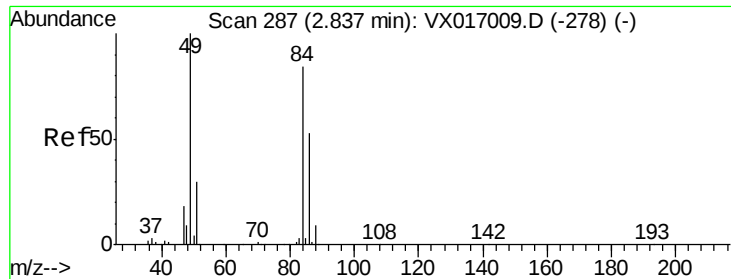
1000

500

0

Time--> 2.50 2.55 2.60

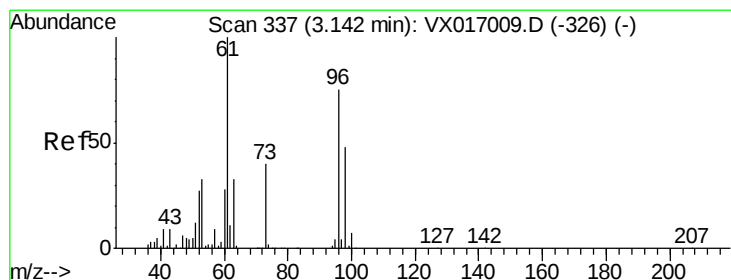
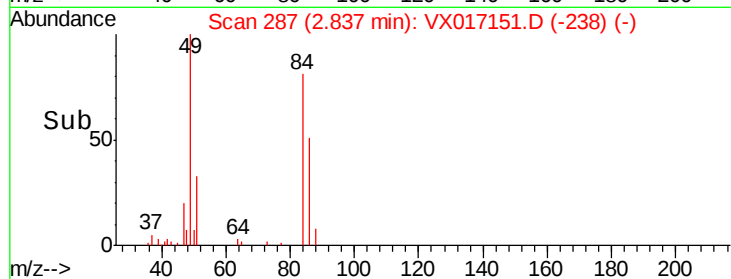
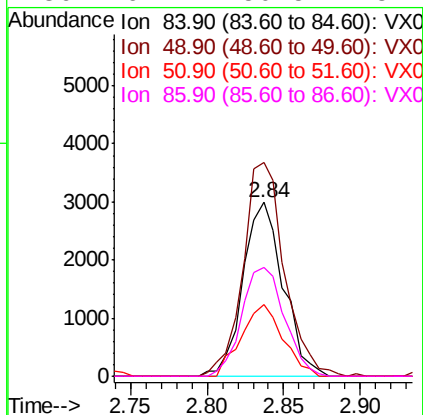
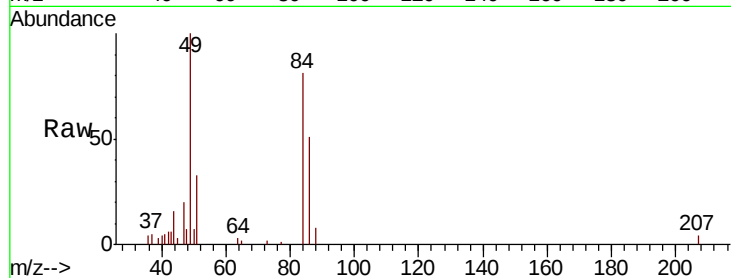




#20
Methylene Chloride
Concen: 1.592 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017151.D
Acq: 02 Jul 2020 16:17

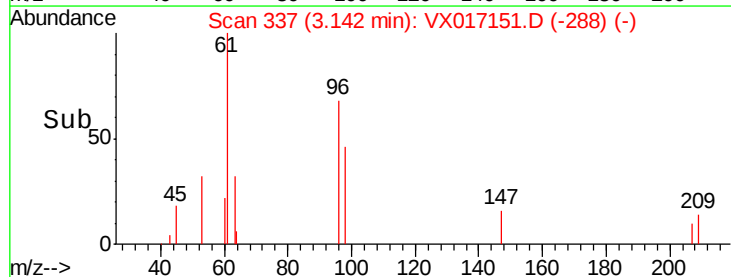
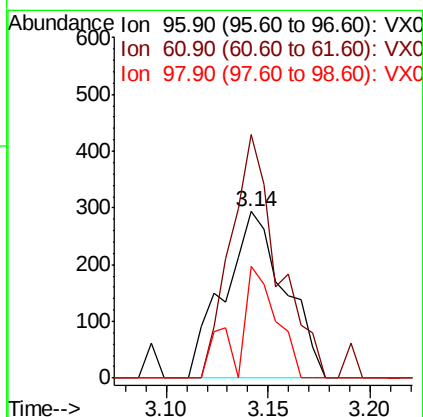
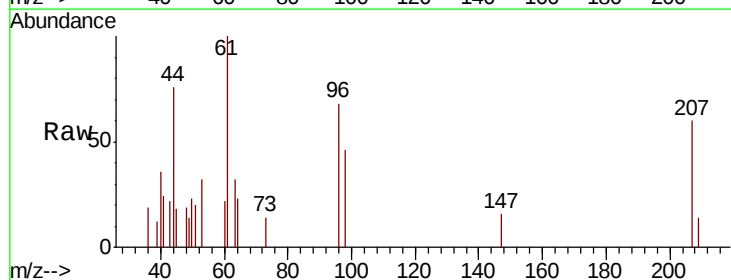
Instrument :
MSVOA_X
ClientSampled :
PB129937TB

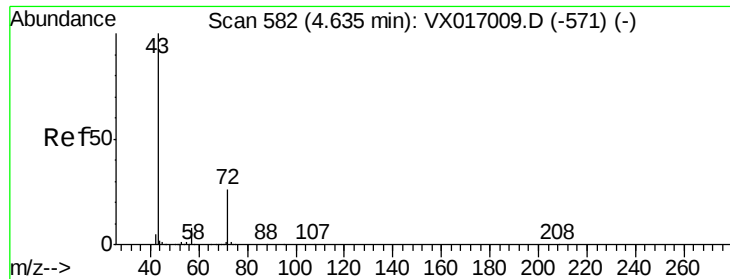
Tot Ion: 84 Resp: 5478
Ion Ratio Lower Upper
84 100
49 122.7 94.7 142.1
51 41.1 28.6 42.8
86 62.4 50.5 75.7



#21
trans-1,2-Dichloroethene
Concen: 0.249 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX017151.D
Acq: 02 Jul 2020 16:17

Tgt Ion: 96 Resp: 603
Ion Ratio Lower Upper
96 100
61 146.4 107.0 160.6
98 67.6 51.6 77.4





#25

2-Butanone

Concen: 1.386 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

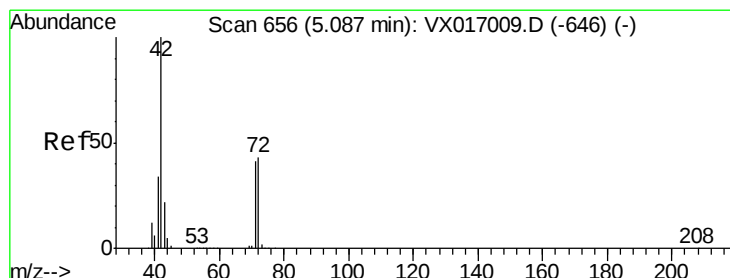
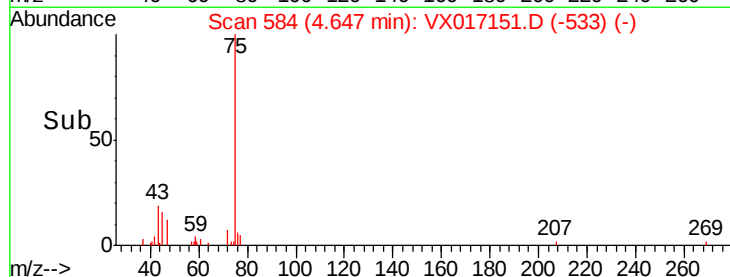
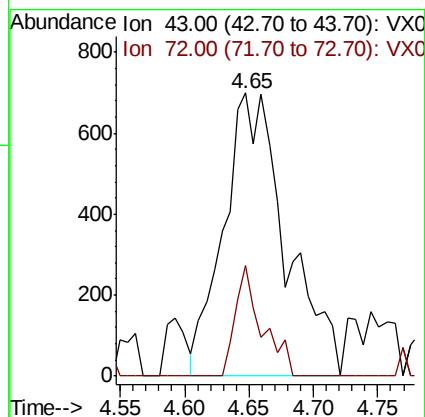
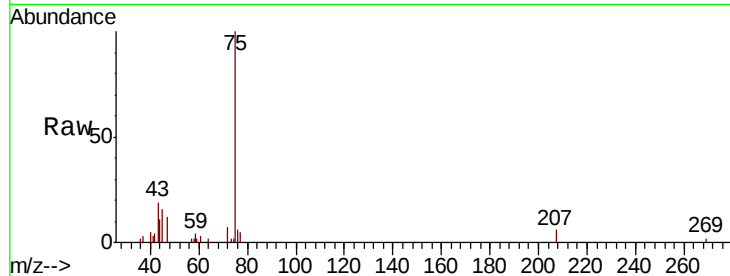
PB129937TB

Tot Ion: 43 Resp: 2348

Ion Ratio Lower Upper

43 100

72 38.9 20.8 31.2#



#29

Tetrahydrofuran

Concen: 0.456 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

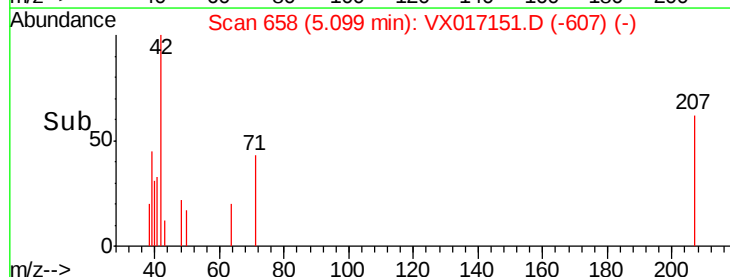
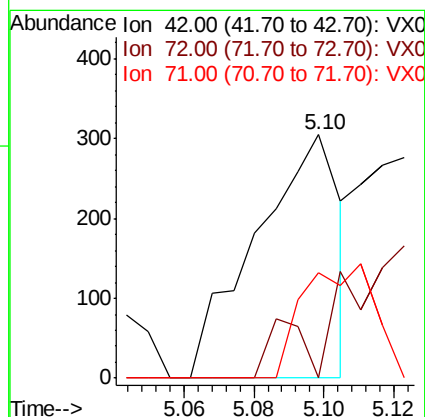
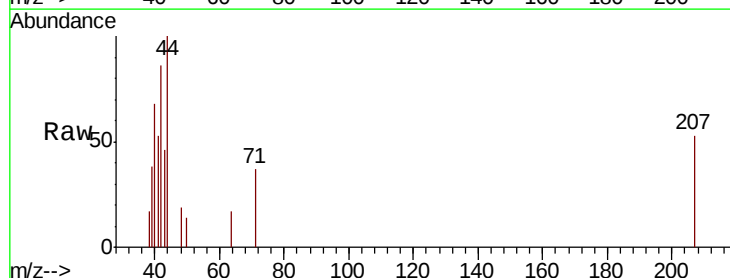
Tgt Ion: 42 Resp: 510

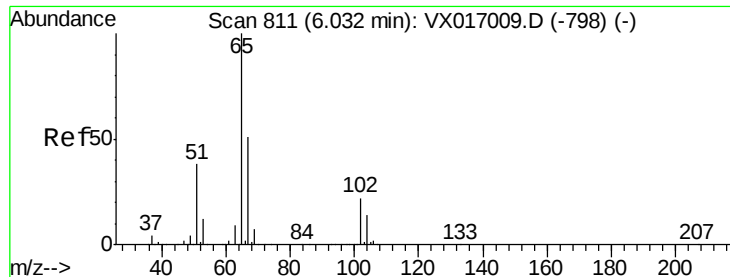
Ion Ratio Lower Upper

42 100

72 0.0 35.3 52.9#

71 40.0 33.1 49.7

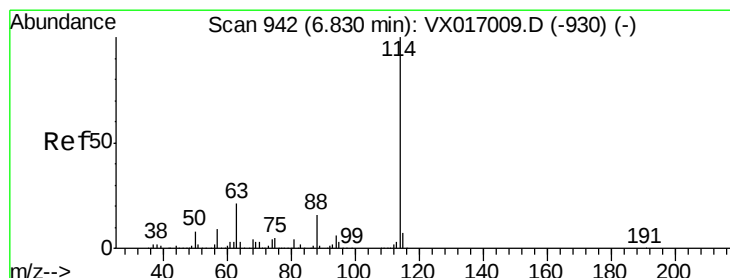
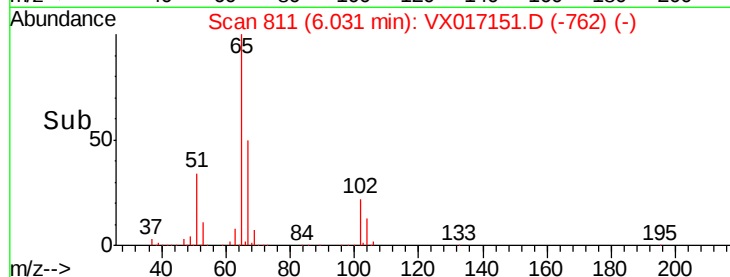
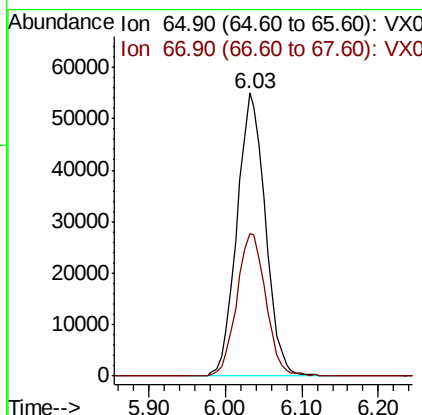
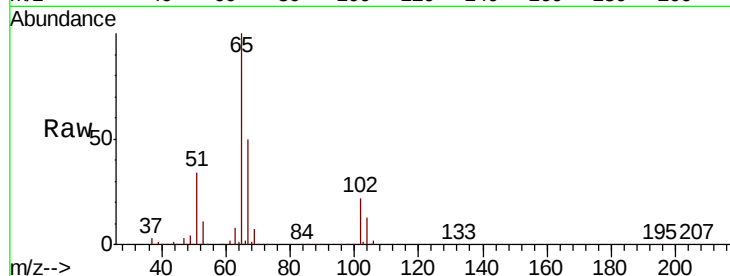




#33
 1,2-Dichloroethane-d4
 Concen: 52.172 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017151.D
 Acq: 02 Jul 2020 16:17

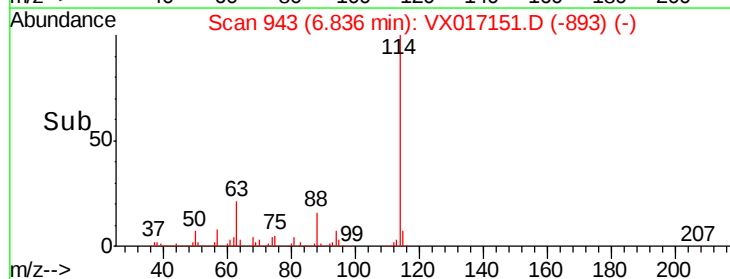
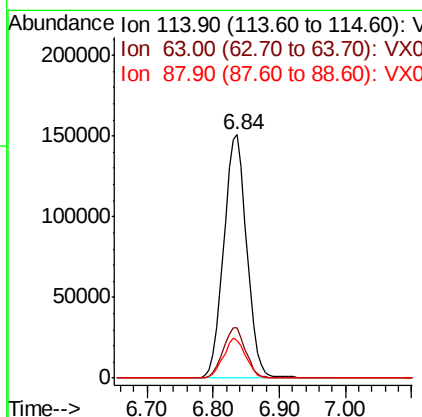
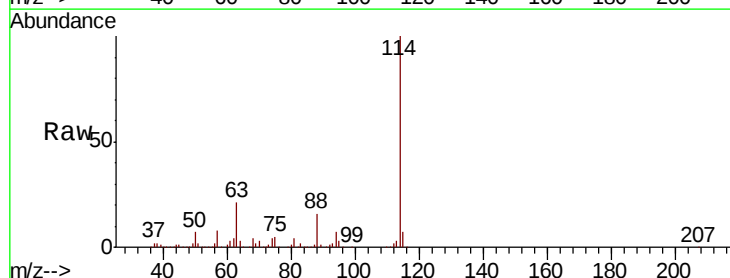
Instrument :
 MSVOA_X
 ClientSampleId :
 PB129937TB

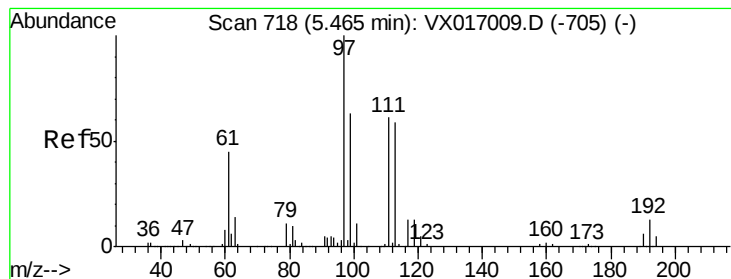
Tot Ion: 65 Resp: 141775
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017151.D
 Acq: 02 Jul 2020 16:17

Tgt Ion: 114 Resp: 363567
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.4
 88 15.6 0.0 32.4





#35

Dibromofluoromethane

Concen: 53.086 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

PB129937TB

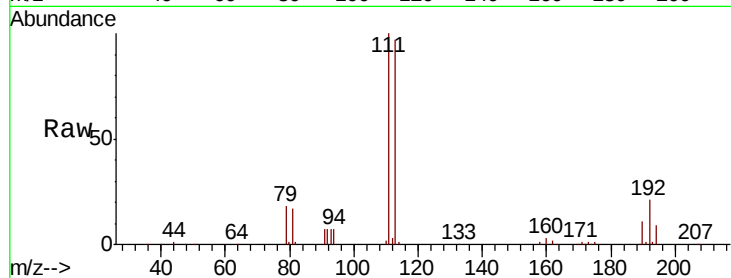
Tot Ion:113 Resp: 122087

Ion Ratio Lower Upper

113 100

111 102.2 81.9 122.9

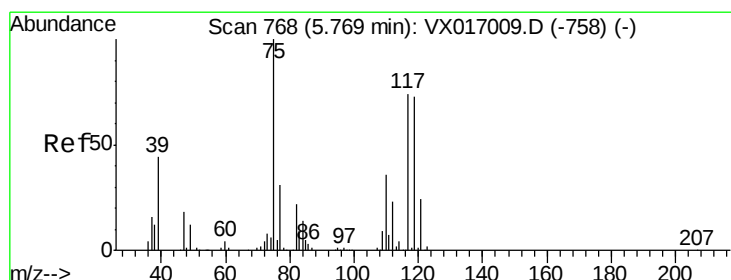
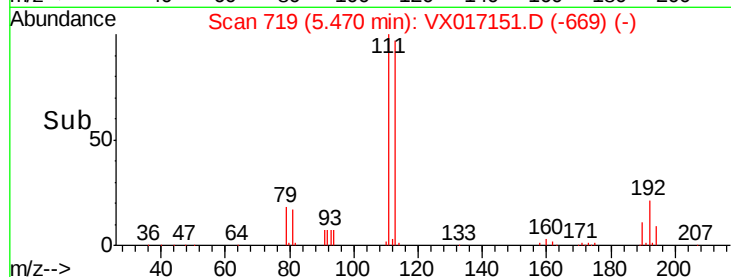
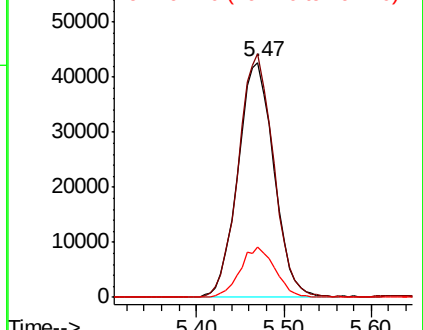
192 21.0 16.7 25.1



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: 4.529 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

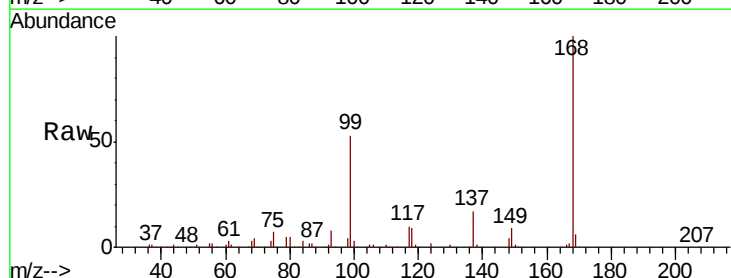
Tgt Ion: 75 Resp: 15563

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.1#

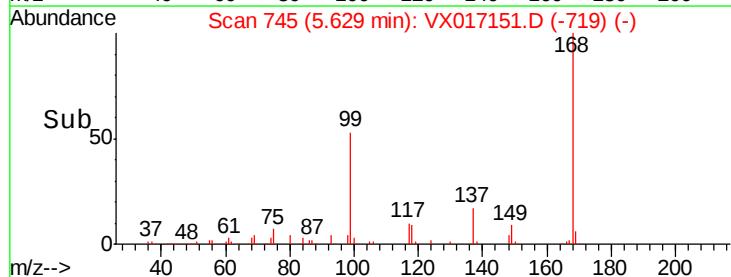
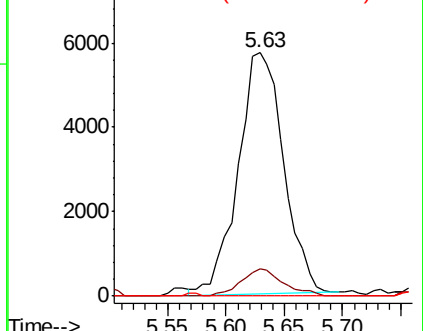
77 0.0 24.6 37.0#

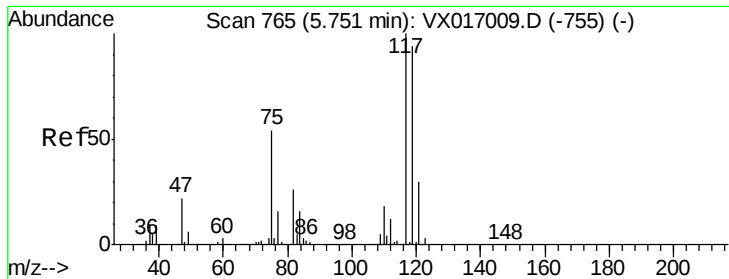


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.981 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampled :

PB129937TB

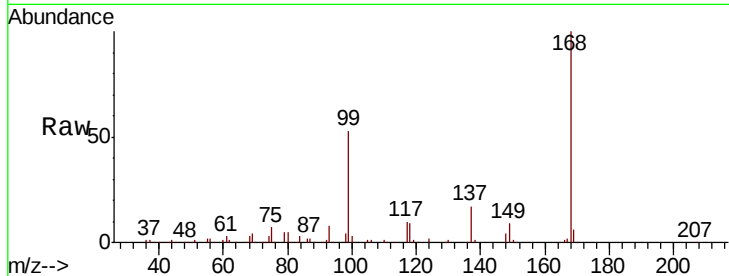
Tot Ion:117 Resp: 22635

Ion Ratio Lower Upper

117 100

119 5.3 75.4 113.0#

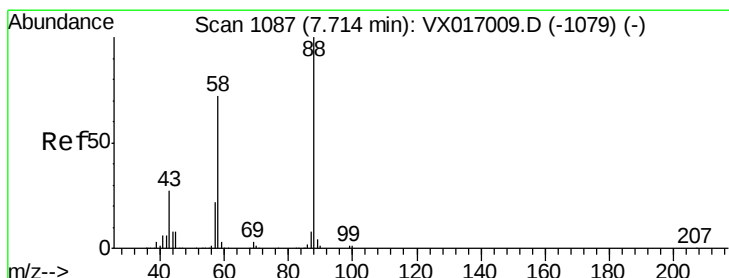
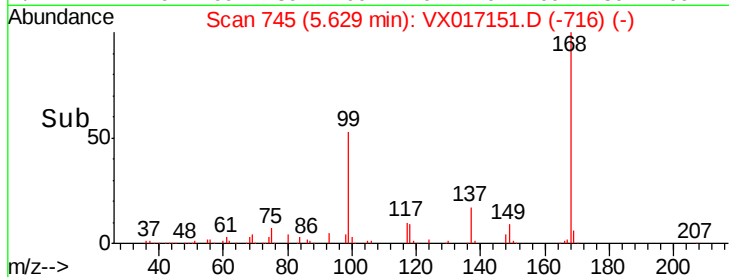
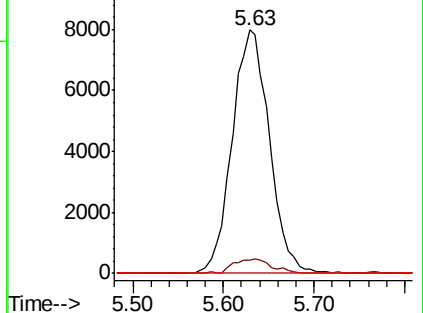
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.770 ug/l

RT: 7.54 min Scan# 1058

Delta R.T. -0.18 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

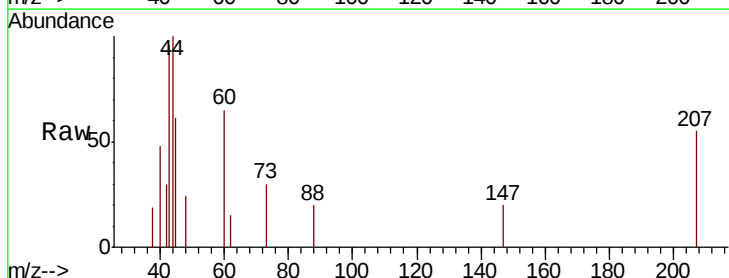
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

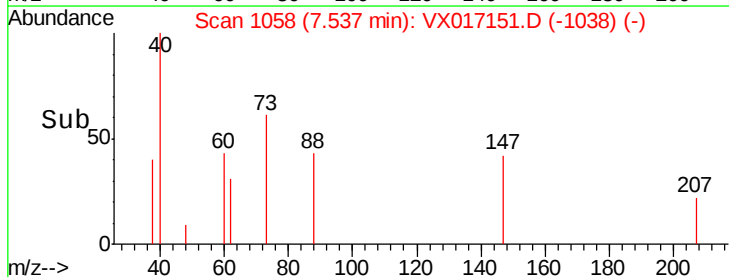
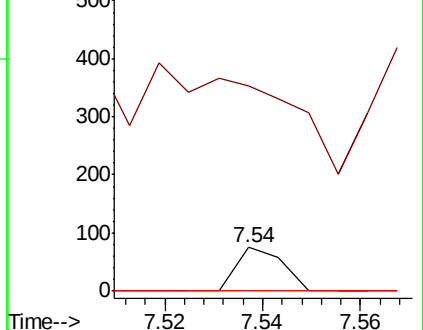
58 0.0 54.8 82.2#

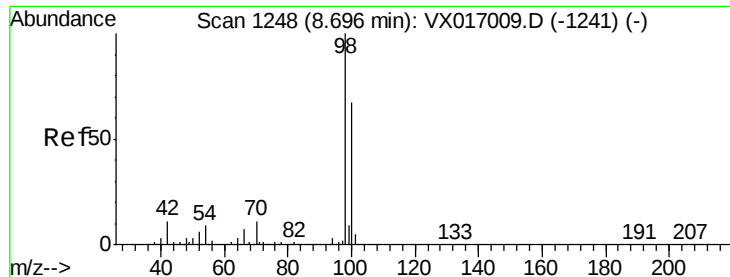


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.420 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

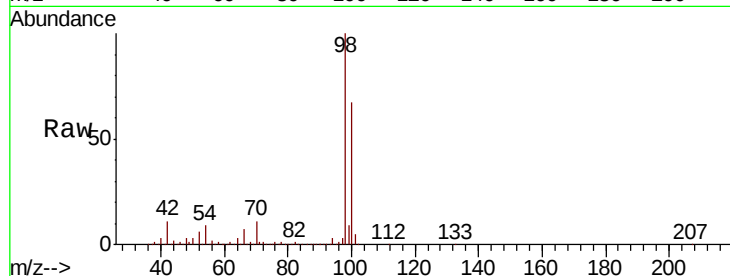
PB129937TB

Tot Ion: 98 Resp: 445796

Ion Ratio Lower Upper

98 100

100 66.5 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

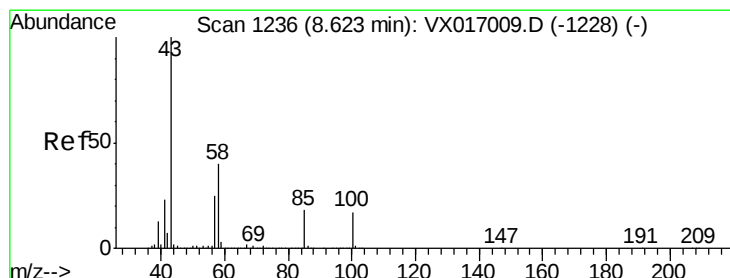
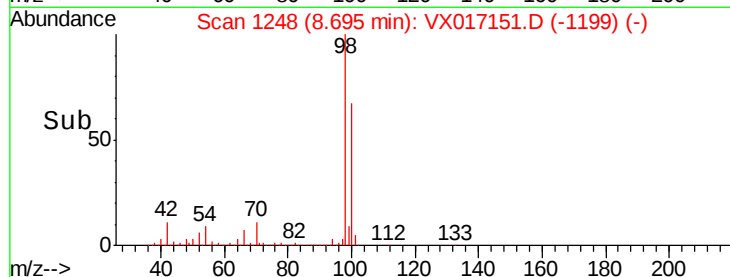
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.469 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX017151.D

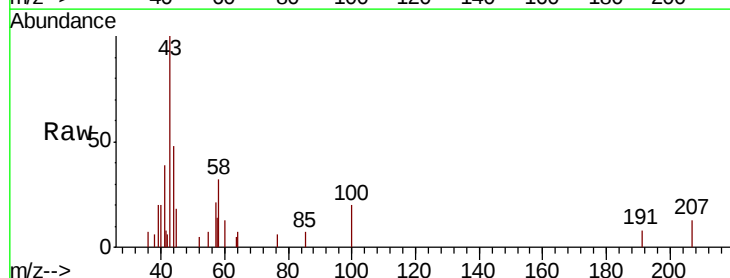
Acq: 02 Jul 2020 16:17

Tgt Ion: 43 Resp: 1619

Ion Ratio Lower Upper

43 100

58 43.2 31.9 47.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

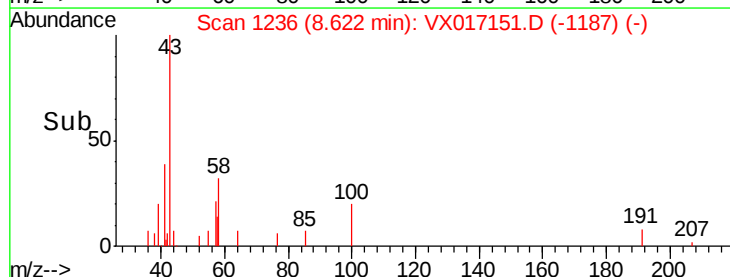
8.62

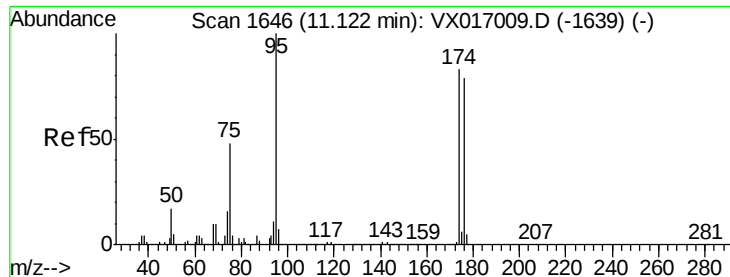
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 55.119 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

PB129937TB

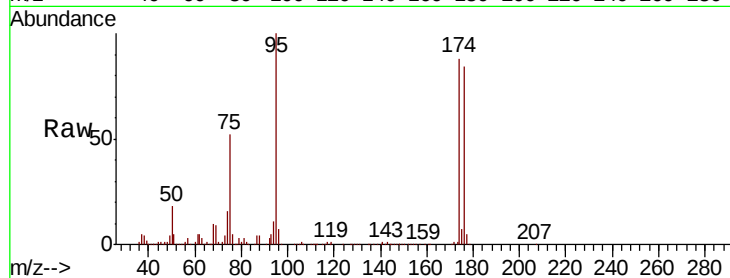
Tot Ion: 95 Resp: 183237

Ion Ratio Lower Upper

95 100

174 86.3 0.0 164.0

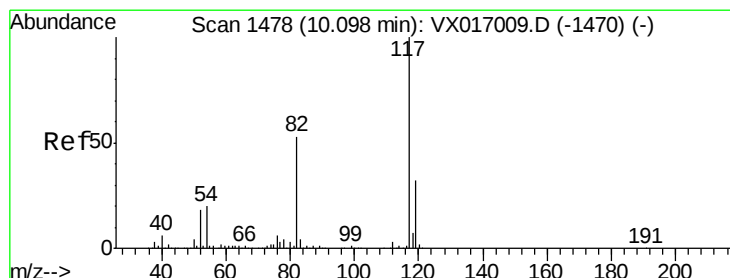
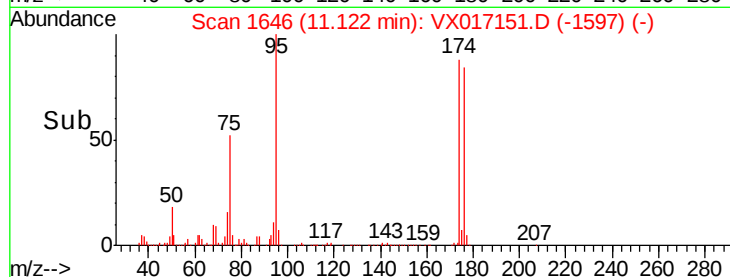
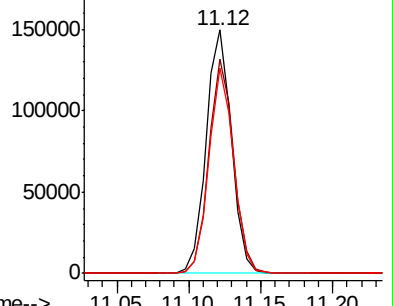
176 82.3 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX017009.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017009.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017009.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

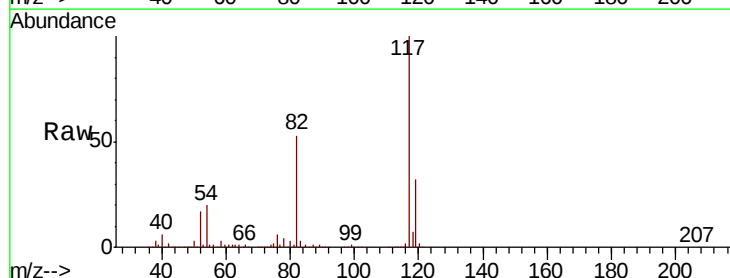
Tgt Ion: 117 Resp: 372878

Ion Ratio Lower Upper

117 100

82 53.3 42.6 63.8

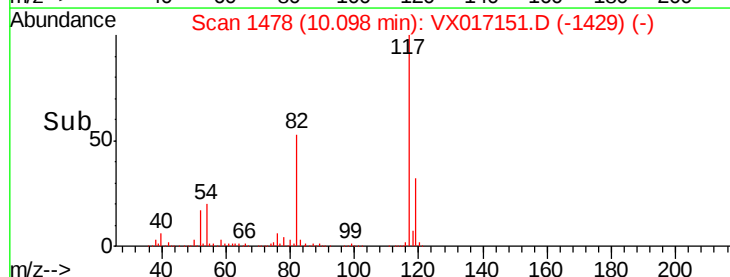
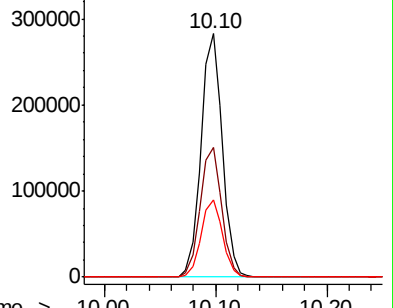
119 31.9 25.4 38.2

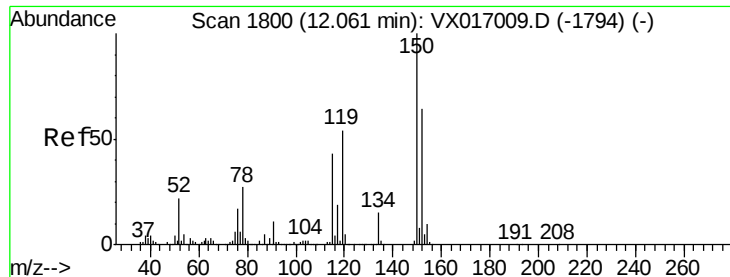


Abundance Ion 116.90 (116.60 to 117.60): VX017009.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017009.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017009.D (-1470) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

PB129937TB

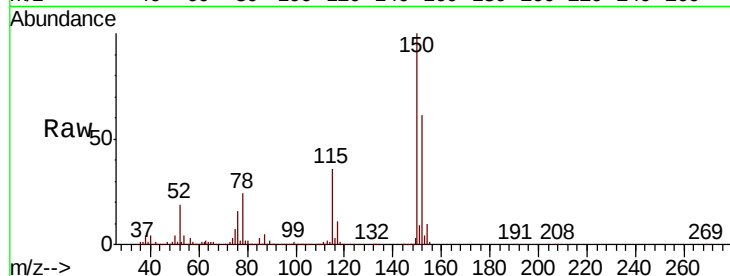
Tot Ion:152 Resp: 199524

Ion Ratio Lower Upper

152 100

115 57.0 40.9 122.7

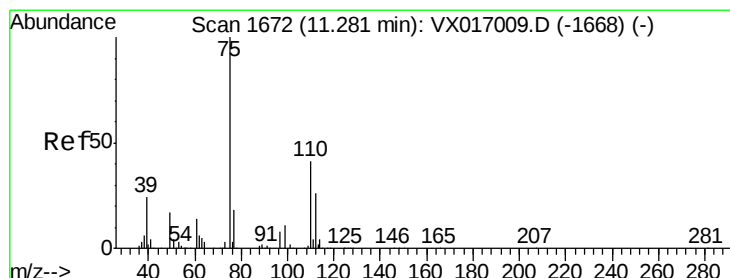
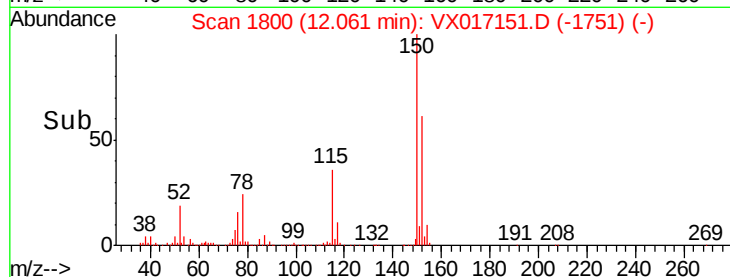
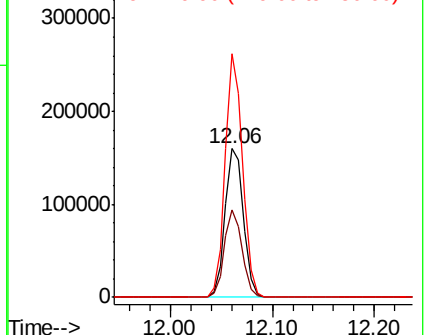
150 155.1 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.371 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017151.D

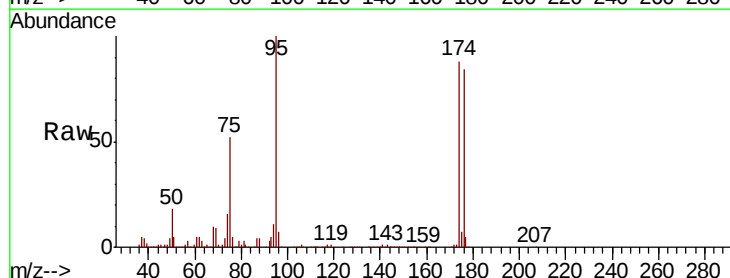
Acq: 02 Jul 2020 16:17

Tgt Ion: 75 Resp: 91698

Ion Ratio Lower Upper

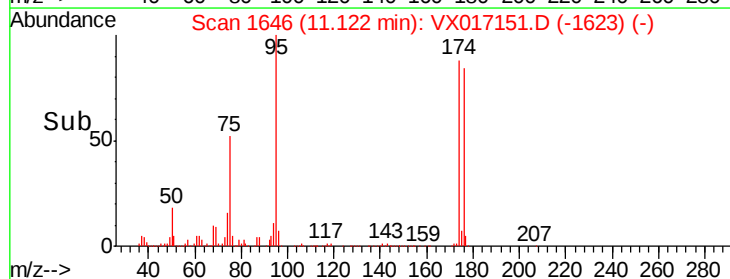
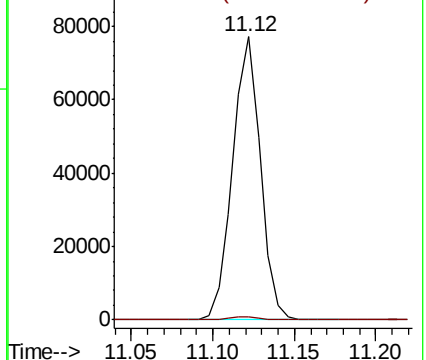
75 100

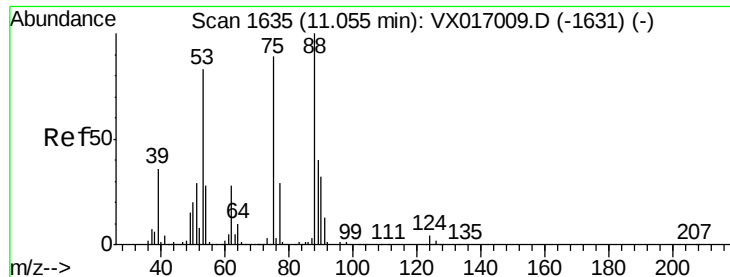
77 1.1 20.2 60.6#



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: 60.523 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

PB129937TB

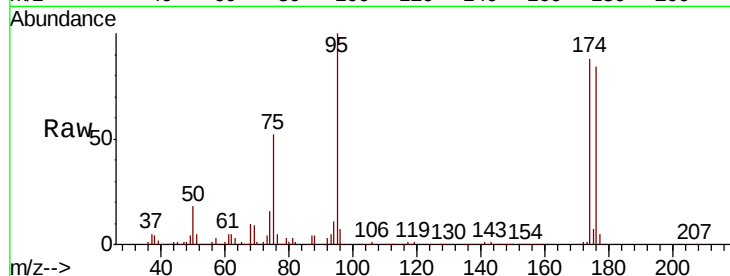
Tot Ion: 75 Resp: 91698

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#

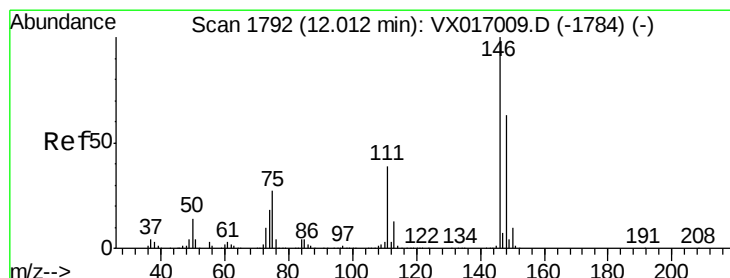
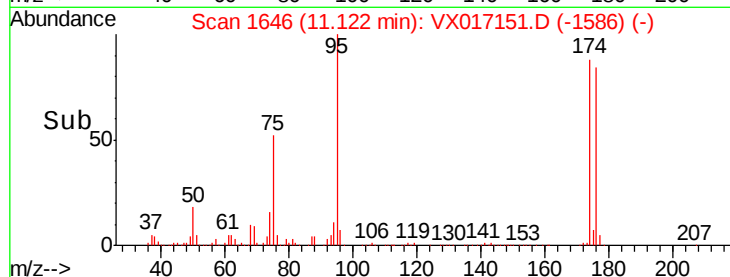
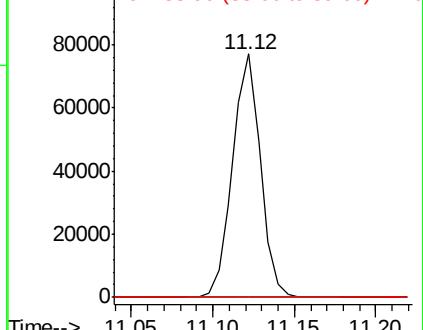


Abundance

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



#87

1,3-Dichlorobenzene

Concen: 0.219 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

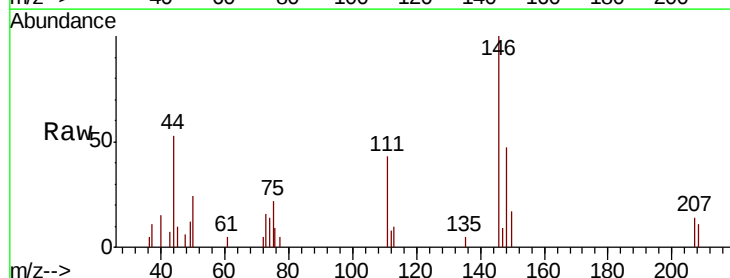
Tgt Ion: 146 Resp: 1428

Ion Ratio Lower Upper

146 100

111 43.1 20.4 61.2

148 53.2 32.5 97.5

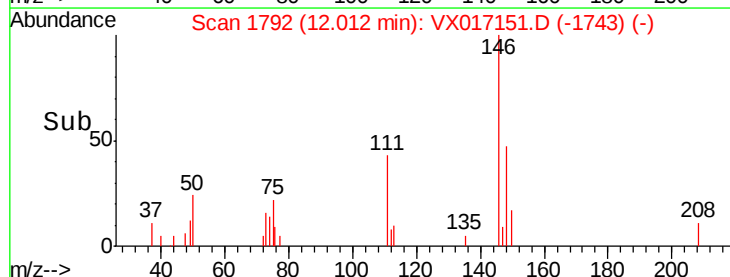
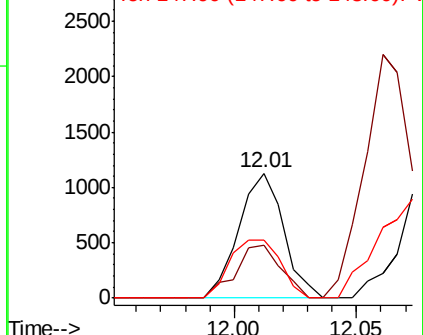


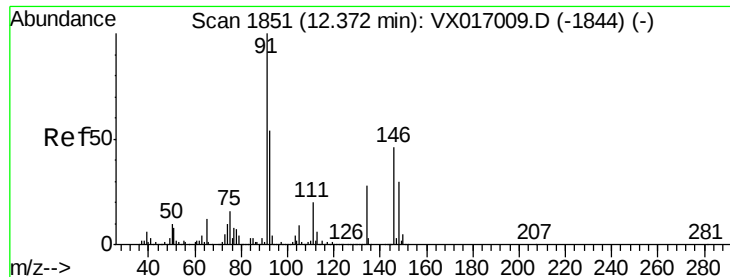
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

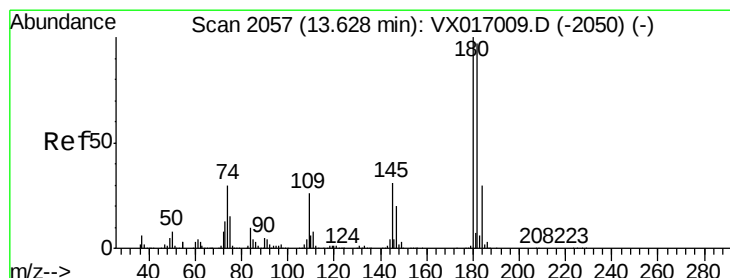
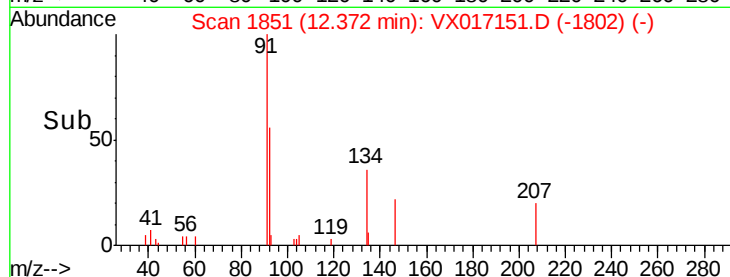
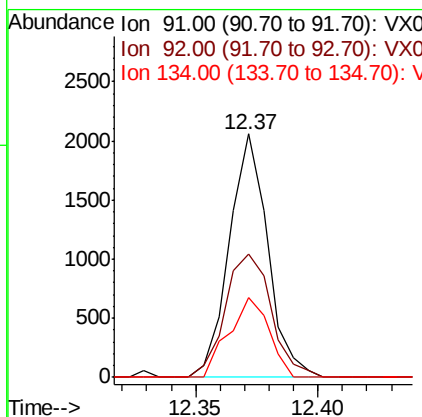
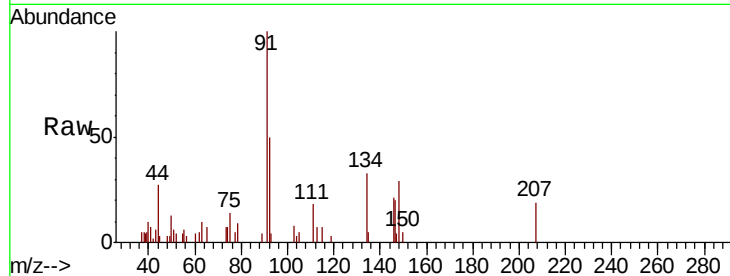




#89
n-Butylbenzene
Concen: 0.216 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. -0.00 min
Lab File: VX017151.D
Acq: 02 Jul 2020 16:17

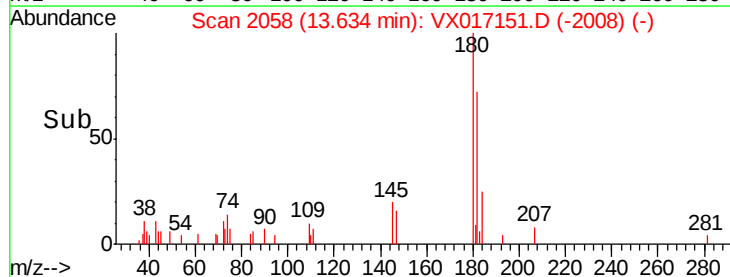
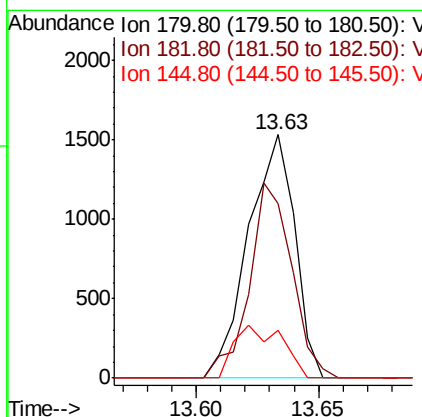
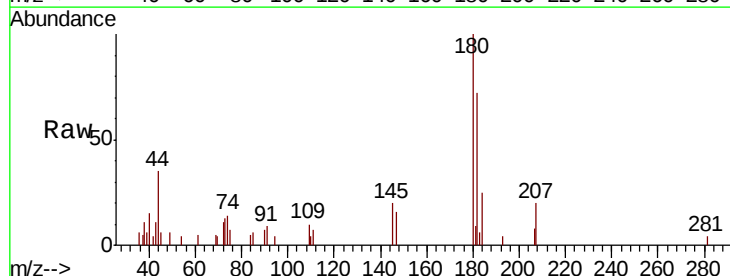
Instrument :
MSVOA_X
ClientSampled :
PB129937TB

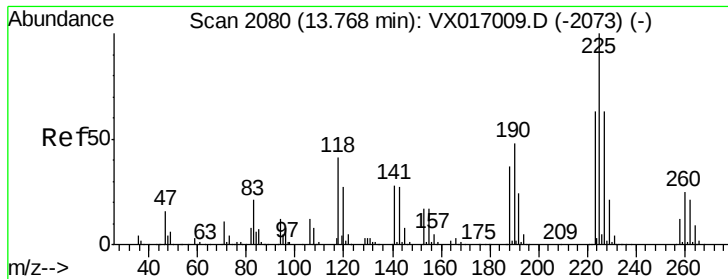
Tot Ion: 91 Resp: 2249
Ion Ratio Lower Upper
91 100
92 60.9 27.2 81.6
134 34.0 13.6 40.7



#93
1,2,4-Trichlorobenzene
Concen: 0.488 ug/l
RT: 13.63 min Scan# 2058
Delta R.T. 0.01 min
Lab File: VX017151.D
Acq: 02 Jul 2020 16:17

Tgt Ion: 180 Resp: 2030
Ion Ratio Lower Upper
180 100
182 73.6 47.3 141.9
145 22.3 15.4 46.2





#94

Hexachlorobutadiene

Concen: 1.442 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampled :

PB129937TB

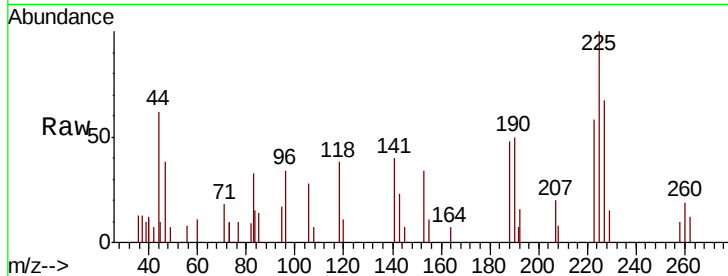
Tot Ion:225 Resp: 961

Ion Ratio Lower Upper

225 100

223 66.6 32.5 97.5

227 72.1 33.1 99.2

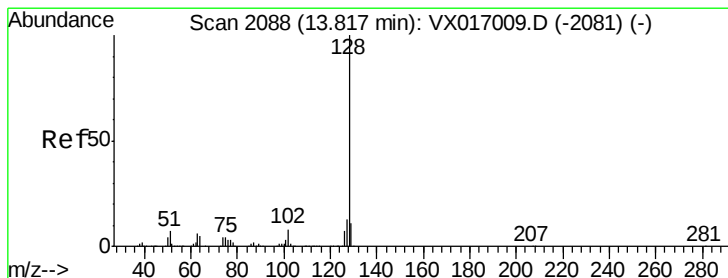
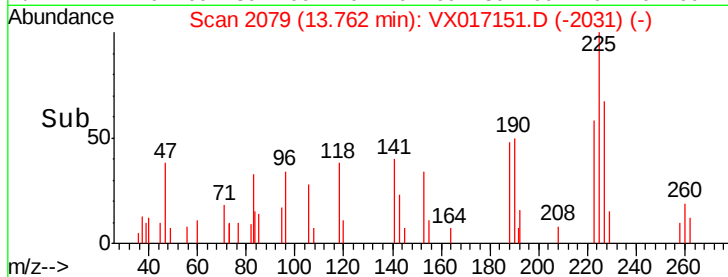
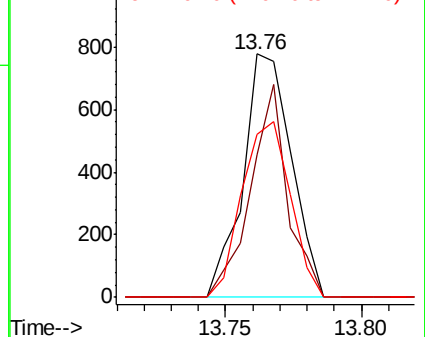


Abundance

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



#95

Naphthalene

Concen: 0.209 ug/l

RT: 13.81 min Scan# 2087

Delta R.T. -0.01 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

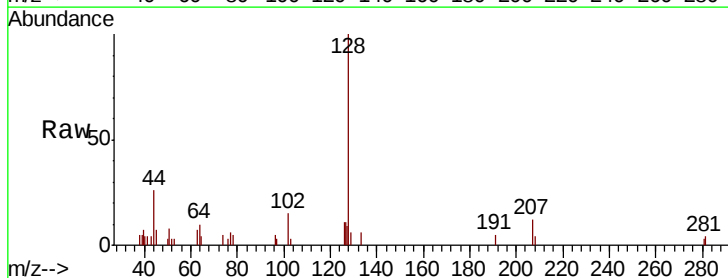
Tgt Ion:128 Resp: 2648

Ion Ratio Lower Upper

128 100

127 15.1 10.2 15.4

129 11.4 8.7 13.1

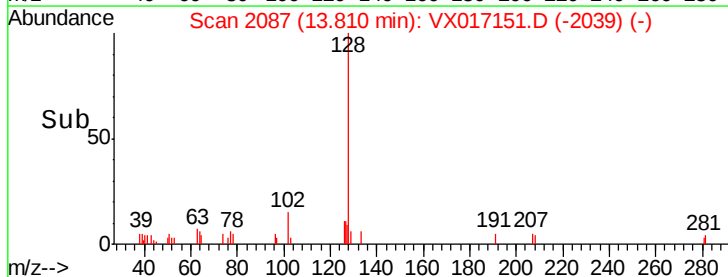
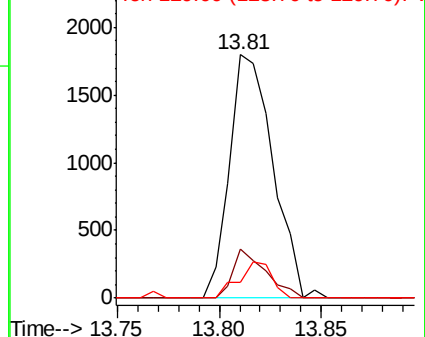


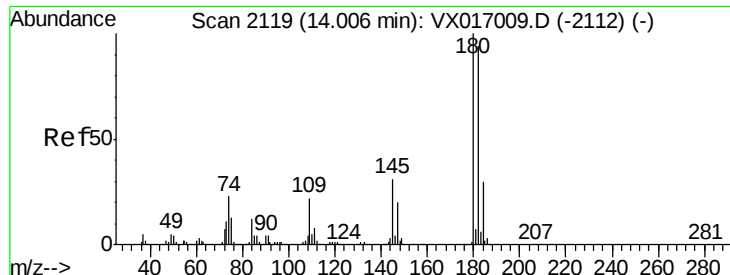
Abundance

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





#96

1,2,3-Trichlorobenzene

Concen: 0.361 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VX017151.D

Acq: 02 Jul 2020 16:17

Instrument :

MSVOA_X

ClientSampleId :

PB129937TB

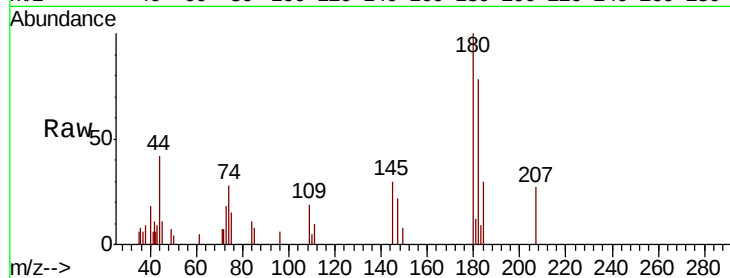
Tot Ion:180 Resp: 1455

Ion Ratio Lower Upper

180 100

182 90.4 47.1 141.4

145 37.7 16.6 49.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

