

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081920\
 Data File : VX017973.D
 Acq On : 19 Aug 2020 10:46
 Operator : JC/SP
 Sample : L3711-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-TB-20200814

Quant Time: Aug 19 13:19:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	523466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	815745	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.10	117	742908	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	349350	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	345293	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	
35) Dibromofluoromethane	5.46	113	280507	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
50) Toluene-d8	8.70	98	964533	44.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.84%	
62) 4-Bromofluorobenzene	11.12	95	346162	43.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.30%	

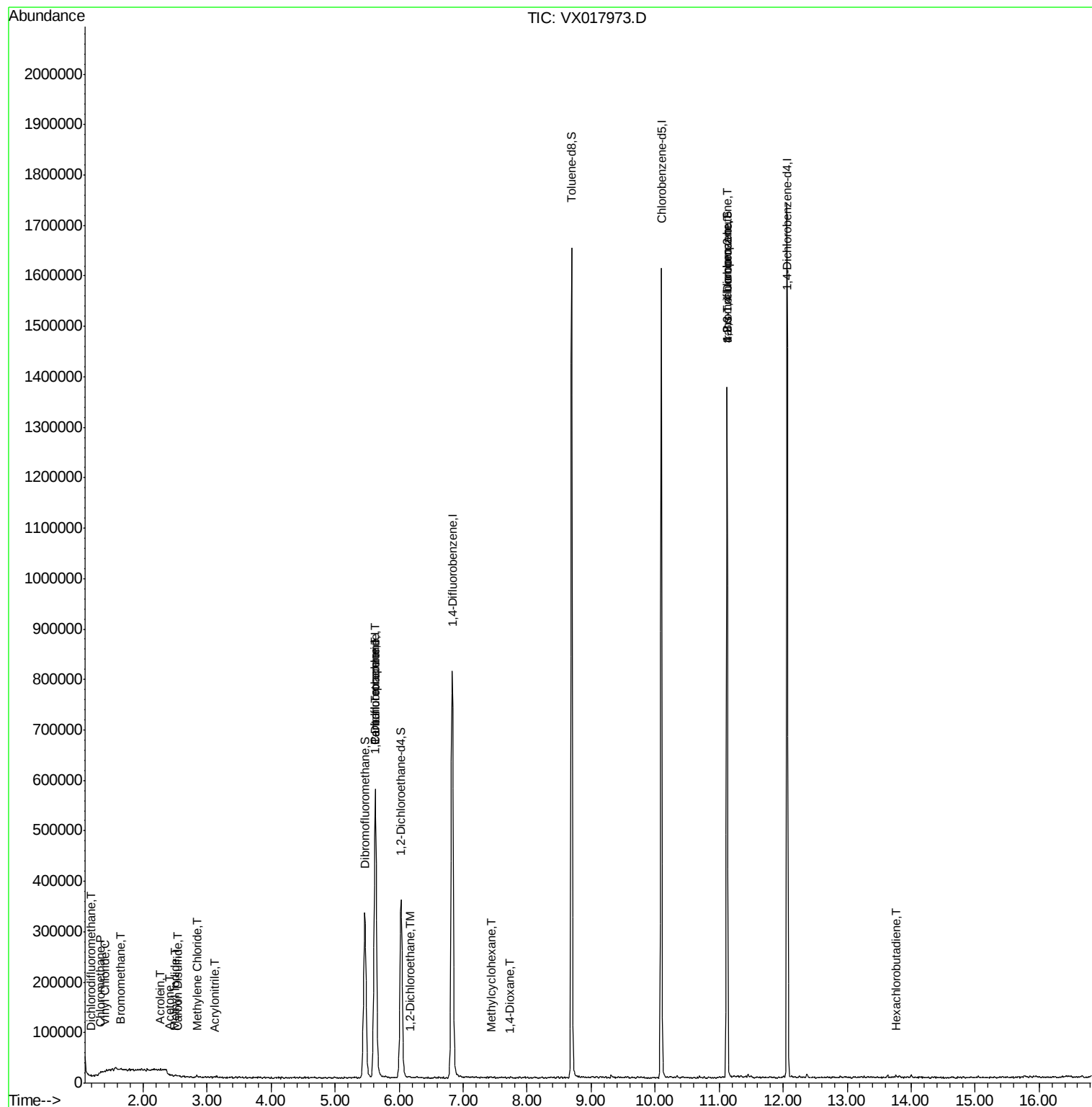
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	407	1.040	ug/l #	44
3) Chloromethane	1.32	50	1858	0.260	ug/l	91
4) Vinyl Chloride	1.39	62	415	2.313	ug/l #	49
5) Bromomethane	1.64	94	1041	0.260	ug/l	82
10) Methyl Iodide	2.50	142	1433	0.216	ug/l #	70
13) Acrolein	2.26	56	654	0.836	ug/l #	13
15) Acrylonitrile	3.12	53	1540	0.476	ug/l #	88
16) Acetone	2.42	43	1096	0.363	ug/l #	53
17) Carbon Disulfide	2.55	76	3438	0.300	ug/l #	82
20) Methylene Chloride	2.83	84	1737	0.312	ug/l #	71
36) 1,1-Dichloropropene	5.62	75	40592	5.945	ug/l #	51
38) Carbon Tetrachloride	5.63	117	55260	6.253	ug/l #	17
39) Methylcyclohexane	7.43	83	460	0.865	ug/l #	21
42) 1,2-Dichloroethane	6.17	62	1839	0.211	ug/l	99
49) 1,4-Dioxane	7.73	88	254	1.898	ug/l #	58
76) 1,2,3-Trichloropropane	11.12	75	172274	23.188	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	172274	60.917	ug/l #	12
94) Hexachlorobutadiene	13.77	225	608	0.207	ug/l	86

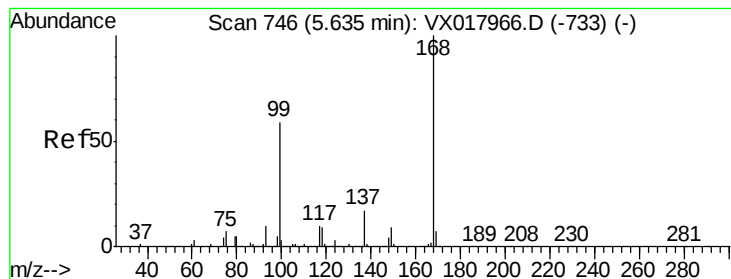
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 19 05:36:51 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

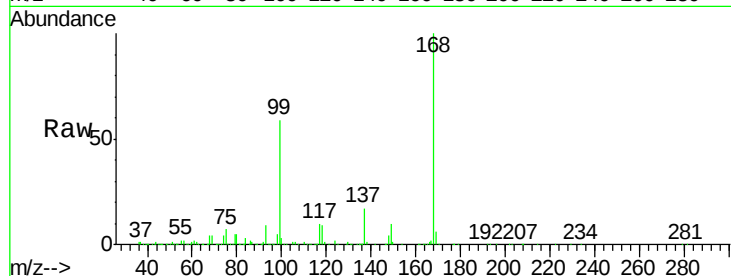
TT-TB-20200814

Tgt Ion:168 Resp: 523466

Ion Ratio Lower Upper

168 100

99 58.8 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

150000

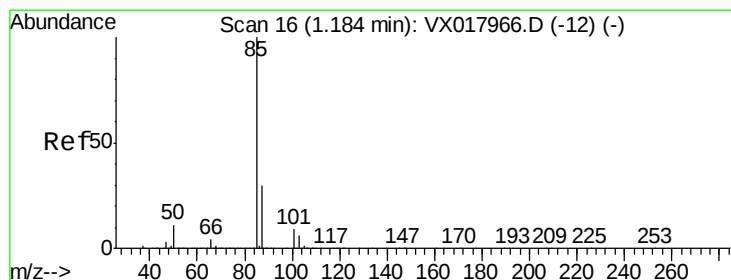
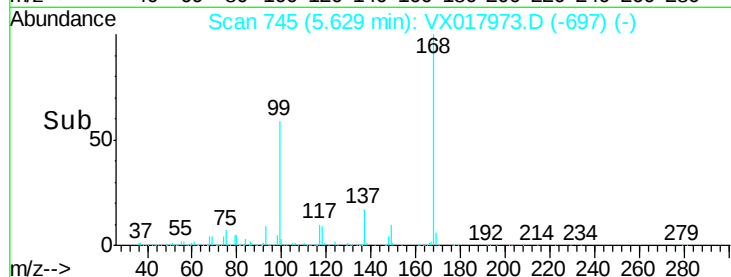
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: 1.040 ug/l

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017973.D

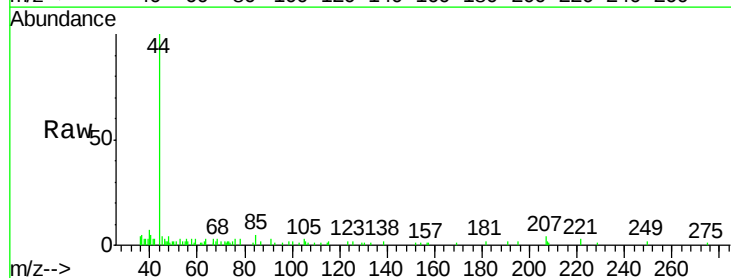
Acq: 19 Aug 2020 10:46

Tgt Ion: 85 Resp: 407

Ion Ratio Lower Upper

85 100

87 0.0 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

300

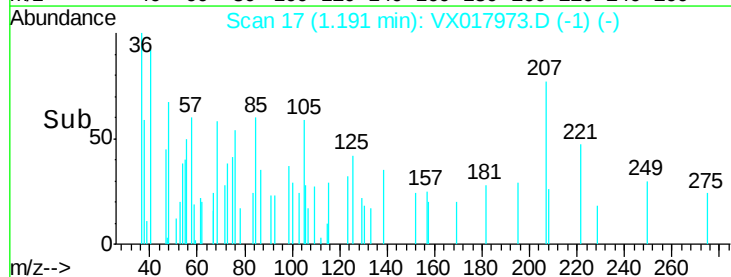
200

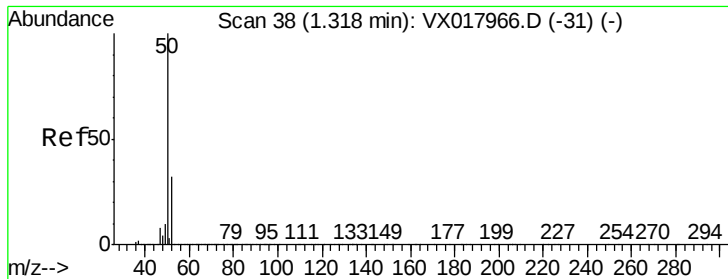
100

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 0.260 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.00 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

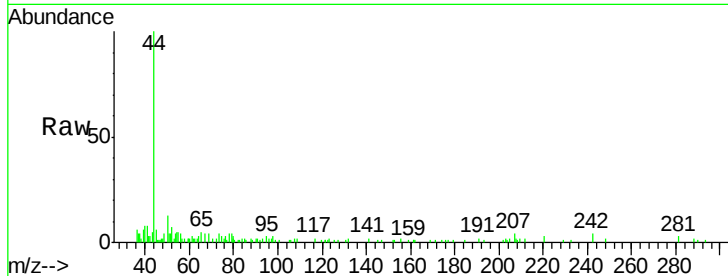
TT-TB-20200814

Tgt Ion: 50 Resp: 1858

Ion Ratio Lower Upper

50 100

52 36.6 25.4 38.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

600

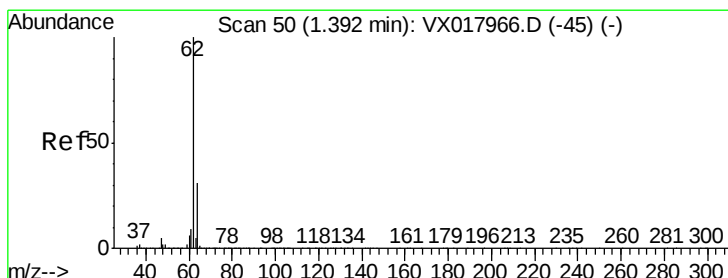
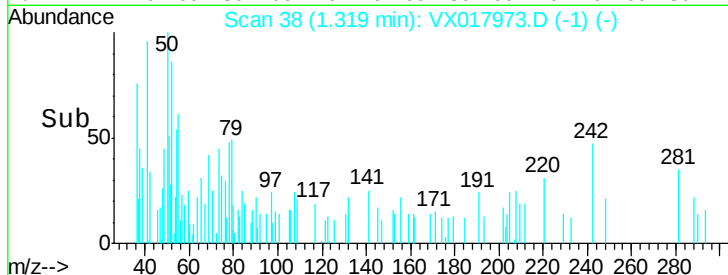
400

200

0

1.20 1.25 1.30 1.35 1.40

Time-->



#4

Vinyl Chloride

Concen: 2.313 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX017973.D

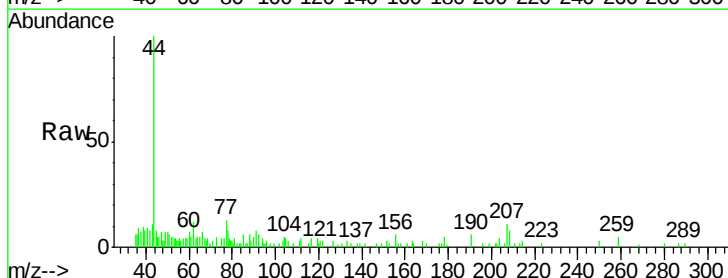
Acq: 19 Aug 2020 10:46

Tgt Ion: 62 Resp: 415

Ion Ratio Lower Upper

62 100

64 3.1 24.7 37.1#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

500

400

300

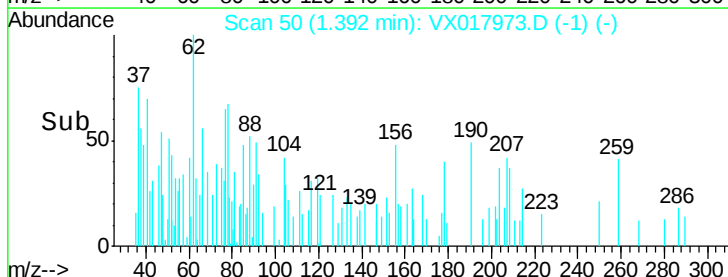
200

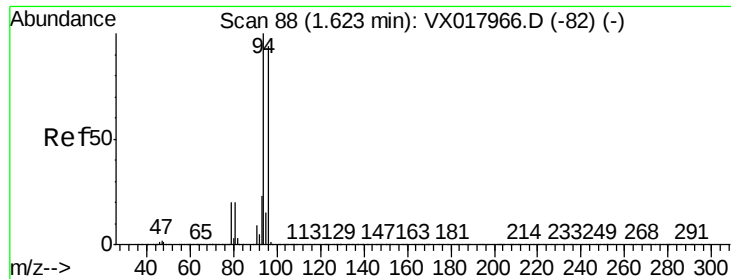
100

0

1.36 1.38 1.40 1.42 1.44

Time-->





#5

Bromomethane

Concen: 0.260 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

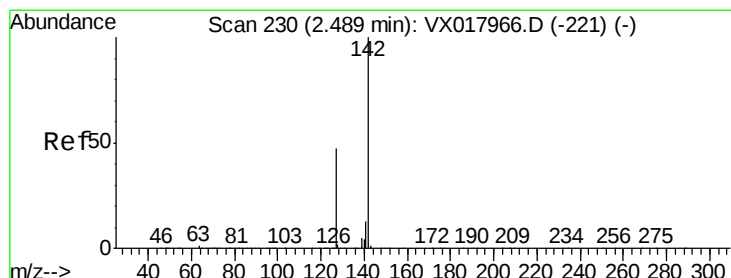
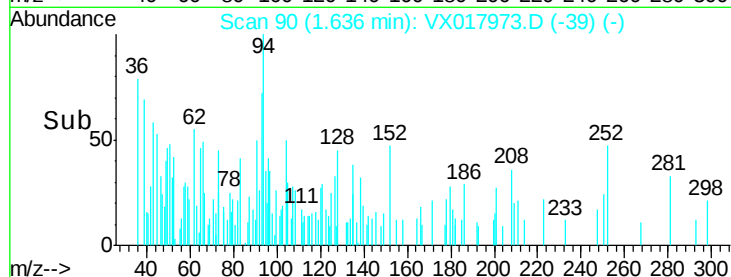
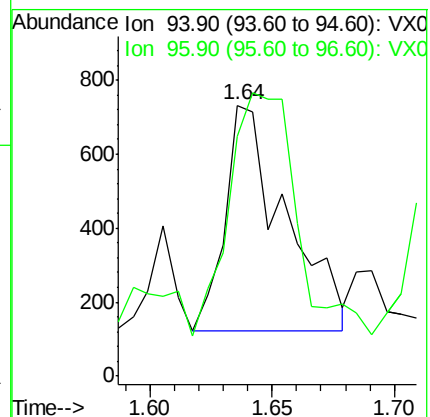
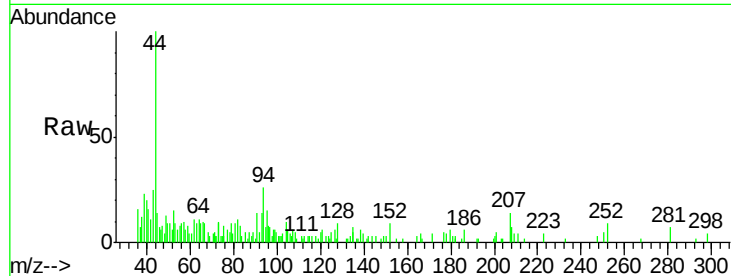
TT-TB-20200814

Tgt Ion: 94 Resp: 1041

Ion Ratio Lower Upper

94 100

96 76.6 75.5 113.3



#10

Methyl Iodide

Concen: 0.216 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

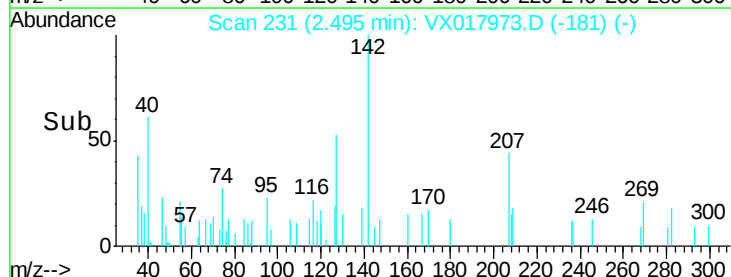
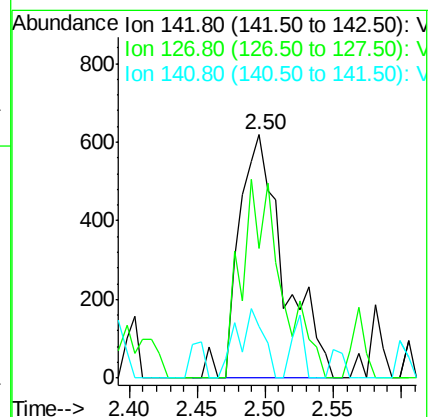
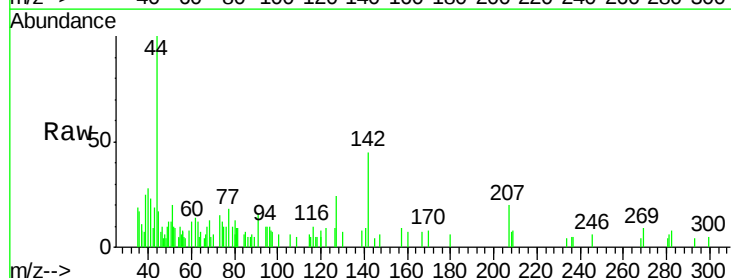
Tgt Ion: 142 Resp: 1433

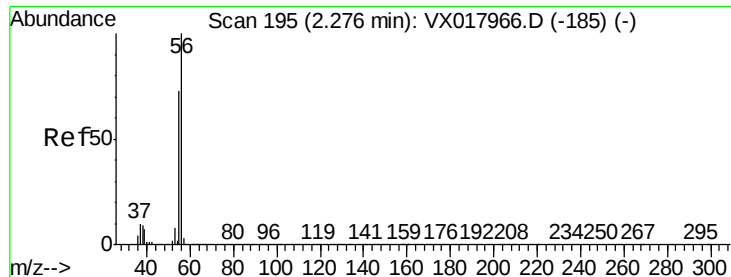
Ion Ratio Lower Upper

142 100

127 71.9 38.0 57.0#

141 16.7 11.2 16.8





#13

Acrolein

Concen: 0.836 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

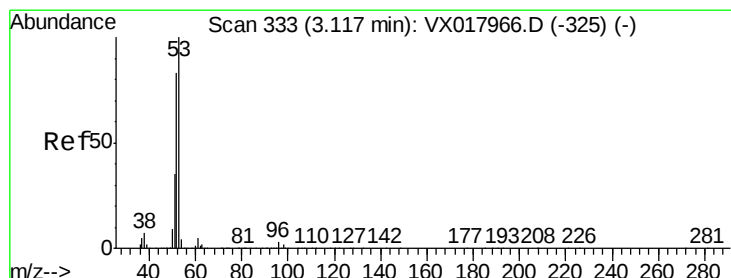
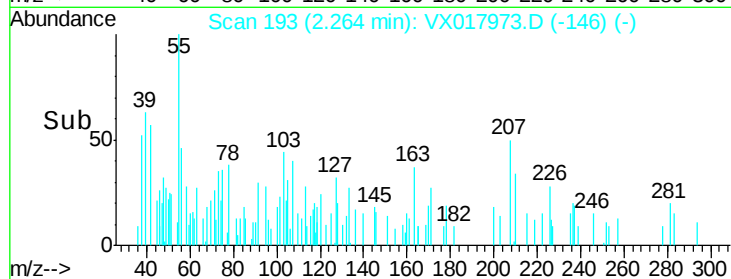
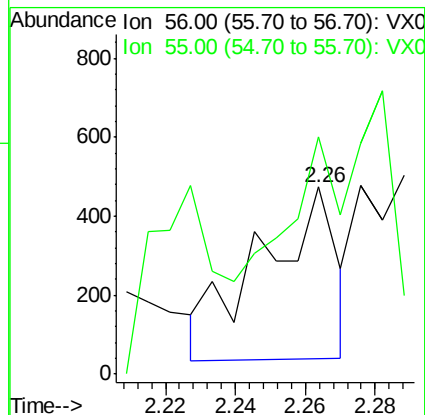
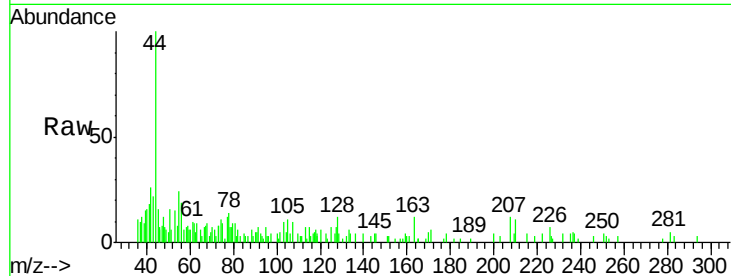
TT-TB-20200814

Tgt Ion: 56 Resp: 654

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#15

Acrylonitrile

Concen: 0.476 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

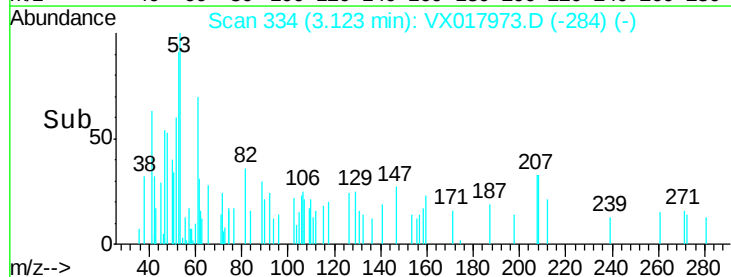
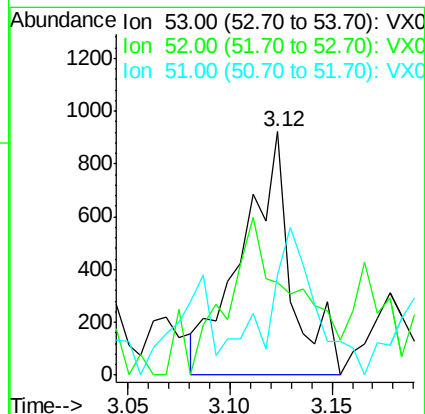
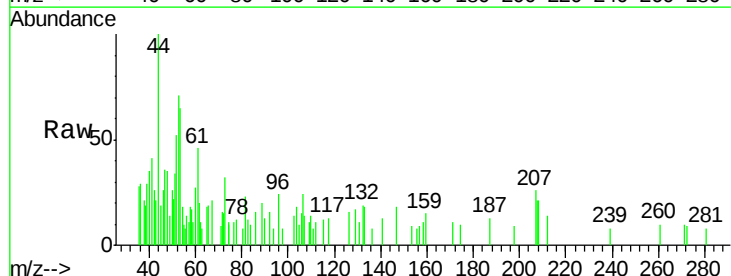
Tgt Ion: 53 Resp: 1540

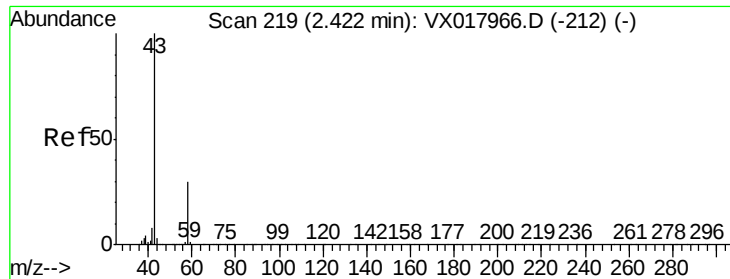
Ion Ratio Lower Upper

53 100

52 87.3 67.1 100.7

51 54.9 29.2 43.8#





#16

Acetone

Concen: 0.363 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

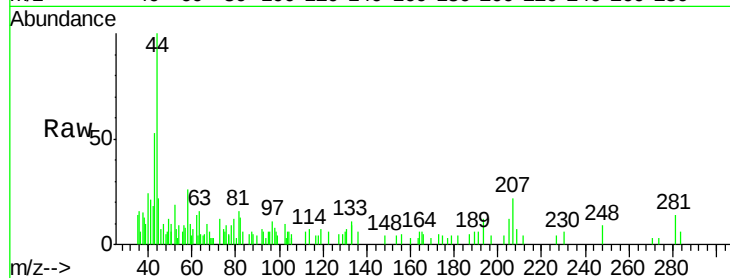
TT-TB-20200814

Tgt Ion: 43 Resp: 1096

Ion Ratio Lower Upper

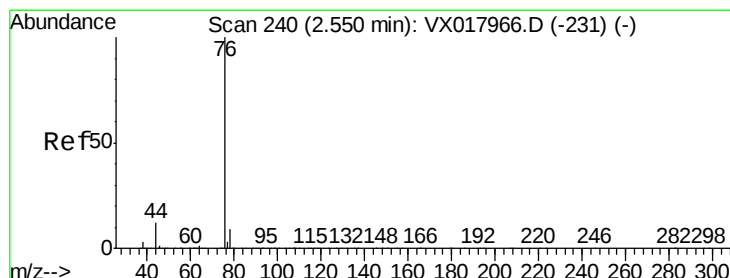
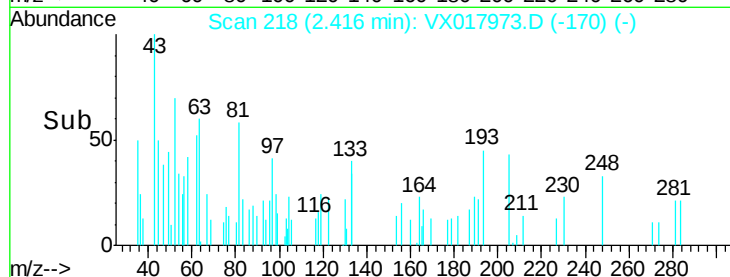
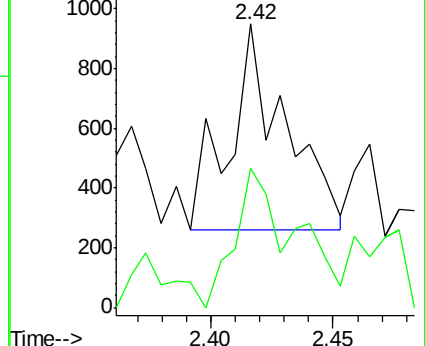
43 100

58 55.2 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.300 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017973.D

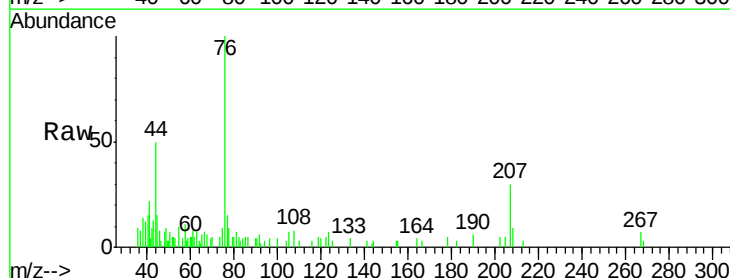
Acq: 19 Aug 2020 10:46

Tgt Ion: 76 Resp: 3438

Ion Ratio Lower Upper

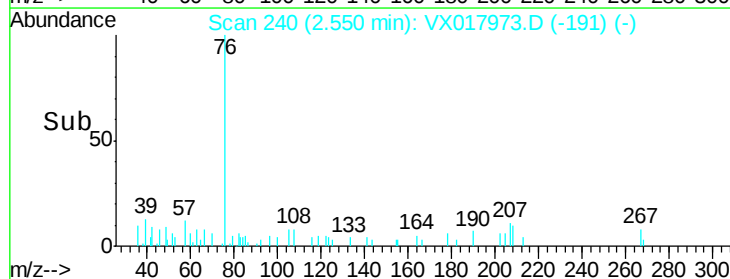
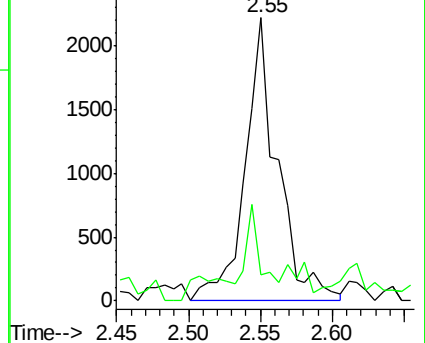
76 100

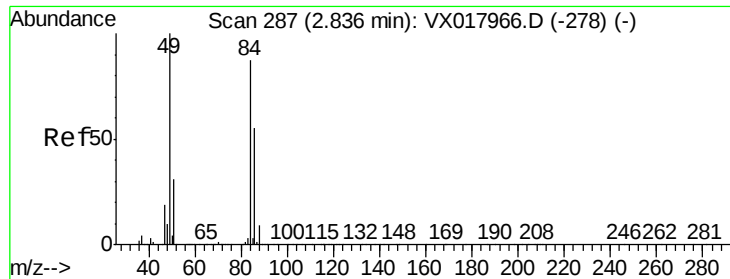
78 2.6 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

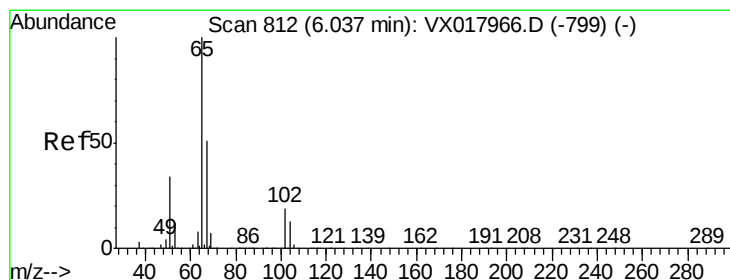
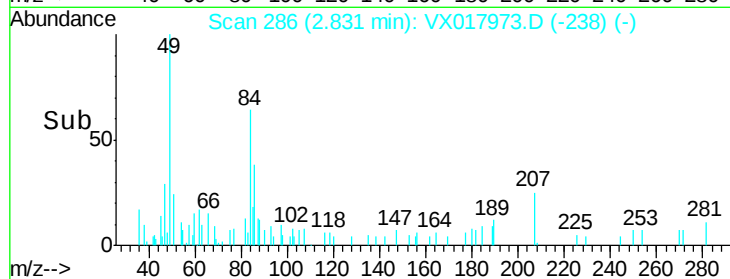
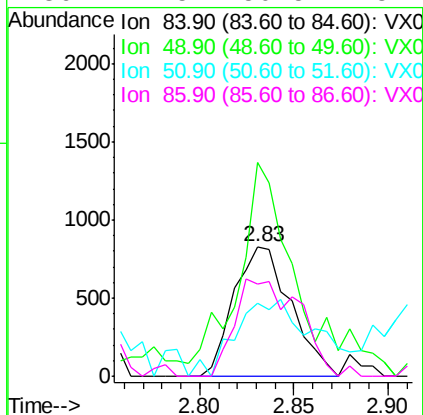
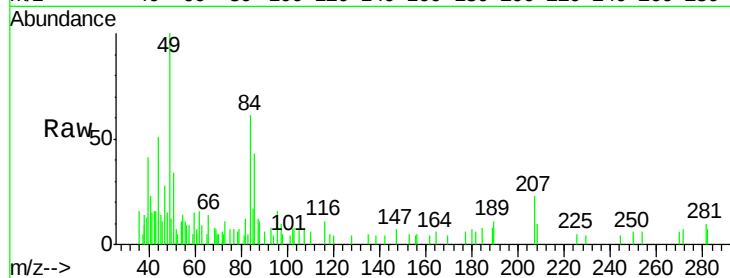




#20
Methylene Chloride
Concen: 0.312 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017973.D
Acq: 19 Aug 2020 10:46

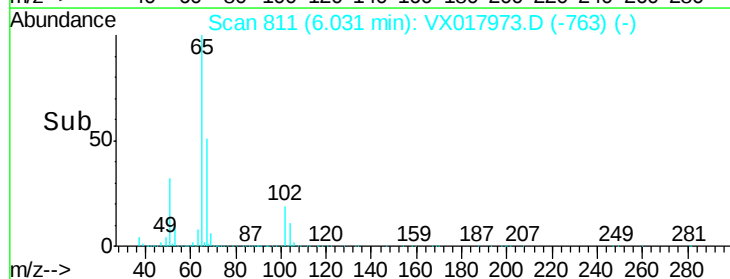
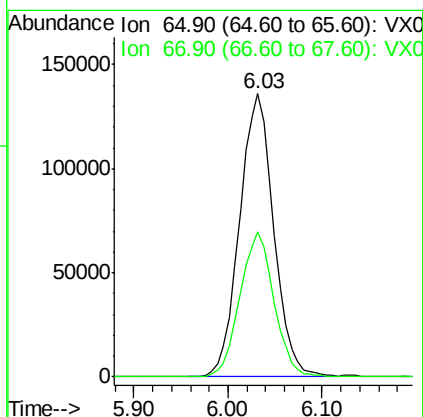
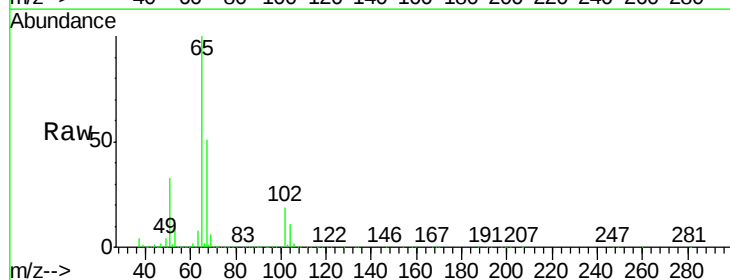
Instrument :
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ClientSampleId :
TT-TB-20200814

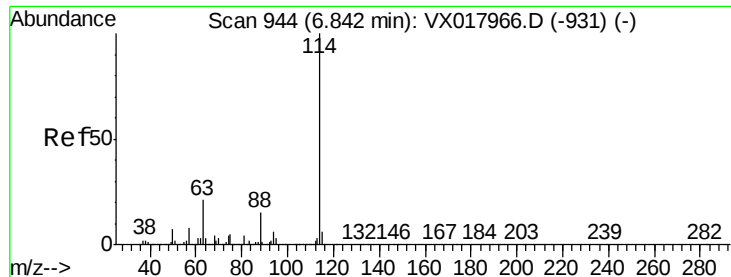
Tgt Ion:	84	Resp:	1737
Ion	Ratio	Lower	Upper
84	100		
49	154.5	91.8	137.6#
51	56.3	27.8	41.8#
86	71.5	50.5	75.7



#33
1,2-Dichloroethane-d4
Concen: 44.997 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.01 min
Lab File: VX017973.D
Acq: 19 Aug 2020 10:46

Tgt Ion:	65	Resp:	345293
Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

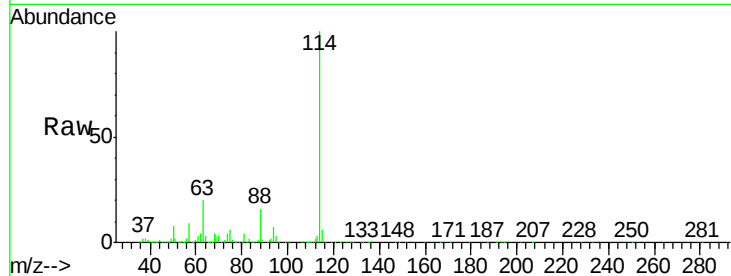
Tgt Ion:114 Resp: 815745

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

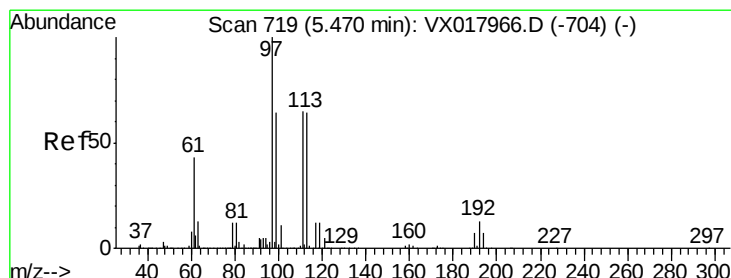
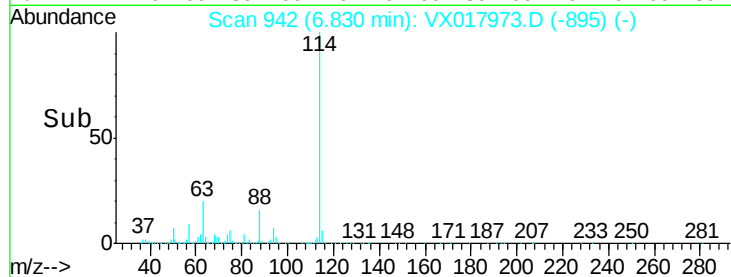
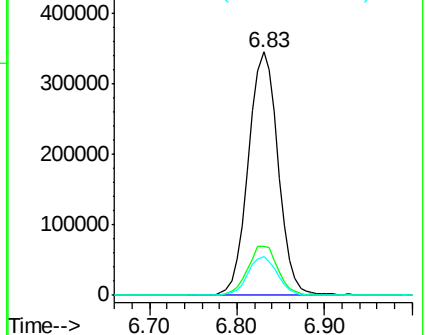
88 16.1 0.0 30.2



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: 46.176 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

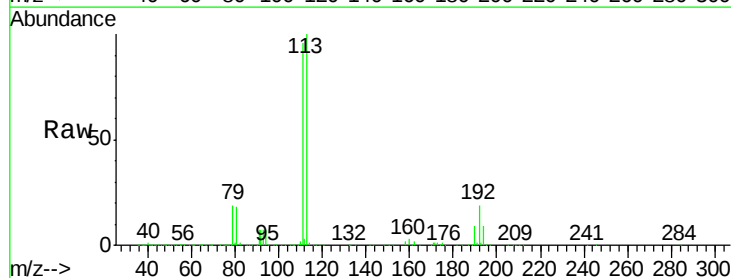
Tgt Ion:113 Resp: 280507

Ion Ratio Lower Upper

113 100

111 101.5 83.5 125.3

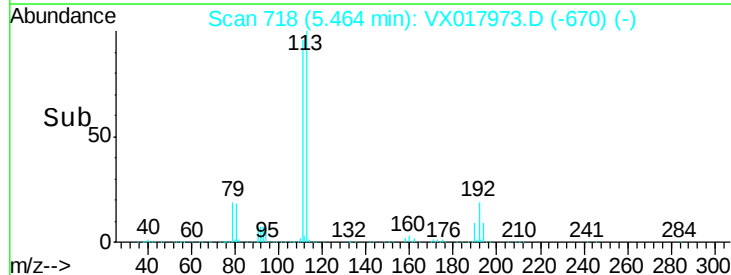
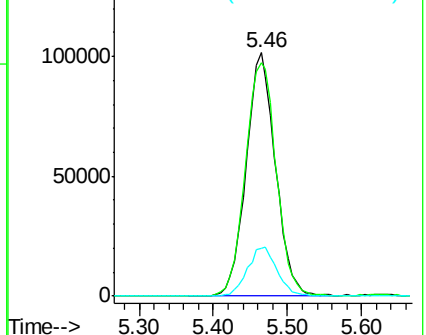
192 20.4 16.2 24.4

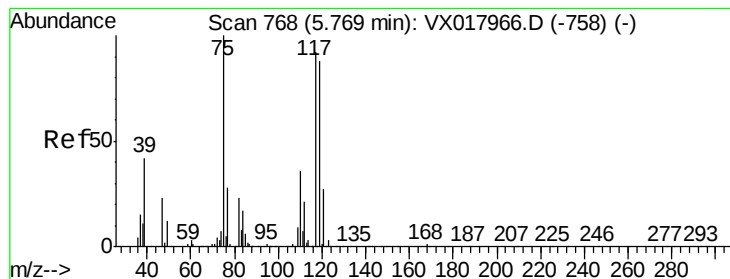


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.945 ug/l

RT: 5.62 min Scan# 743

Delta R.T. -0.15 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

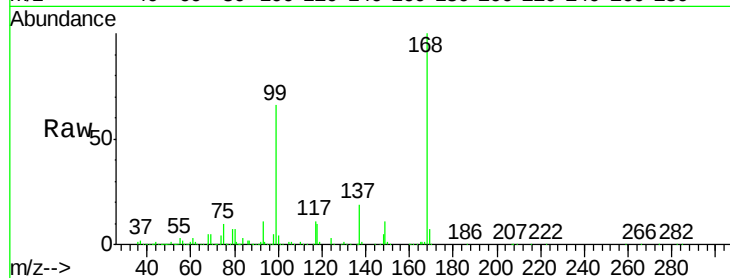
Tgt Ion: 75 Resp: 40592

Ion Ratio Lower Upper

75 100

110 10.6 18.7 56.1#

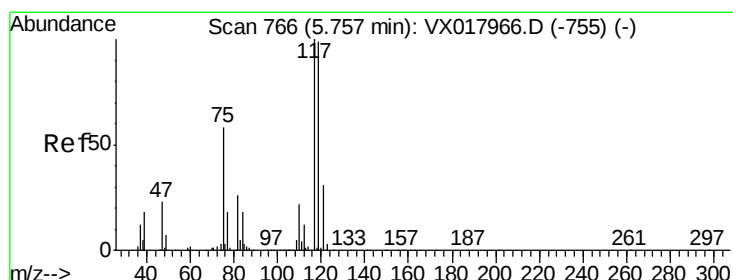
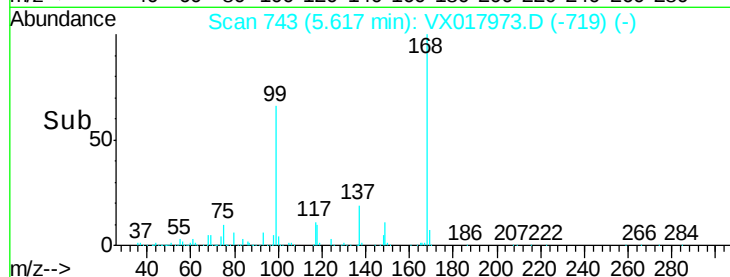
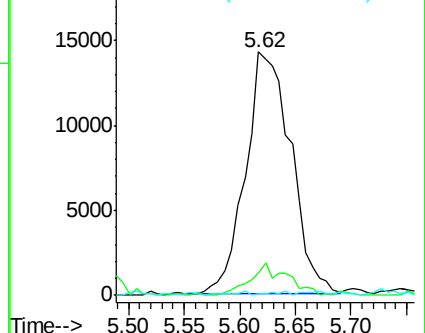
77 0.8 24.4 36.6#



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: 6.253 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

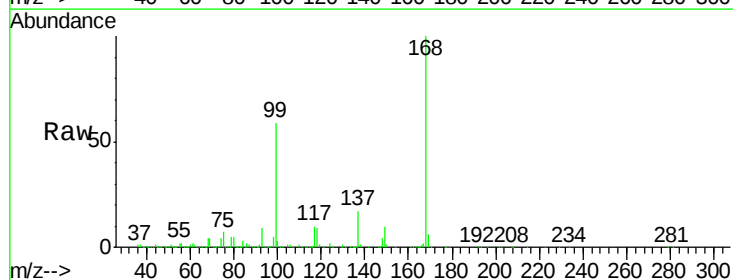
Tgt Ion: 117 Resp: 55260

Ion Ratio Lower Upper

117 100

119 7.4 79.0 118.6#

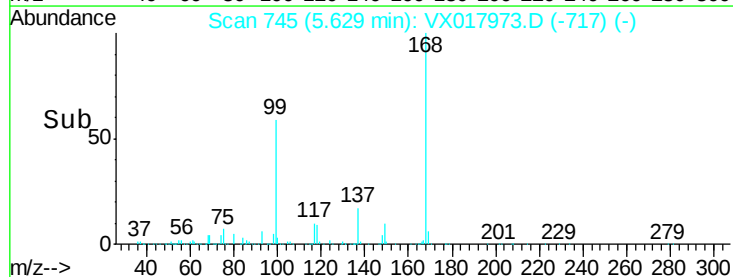
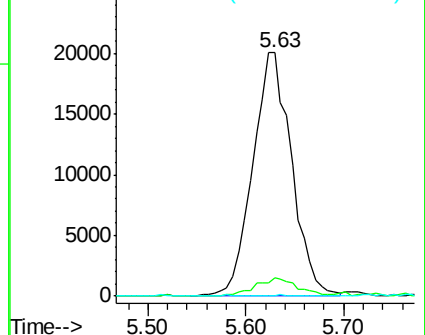
121 0.3 24.7 37.1#

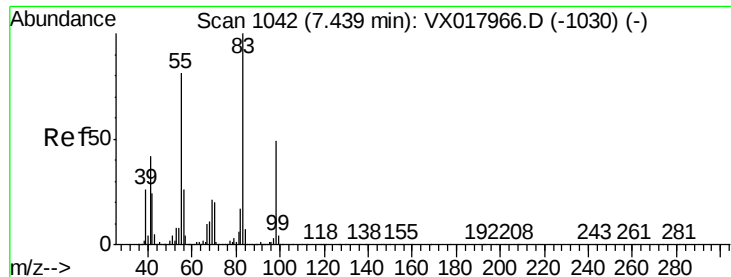


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#39

Methylcyclohexane

Concen: 0.865 ug/l

RT: 7.43 min Scan# 1040

Delta R.T. -0.01 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

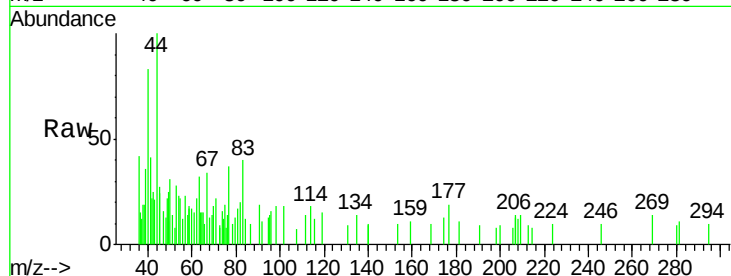
Tgt Ion: 83 Resp: 460

Ion Ratio Lower Upper

83 100

55 0.0 64.5 96.7#

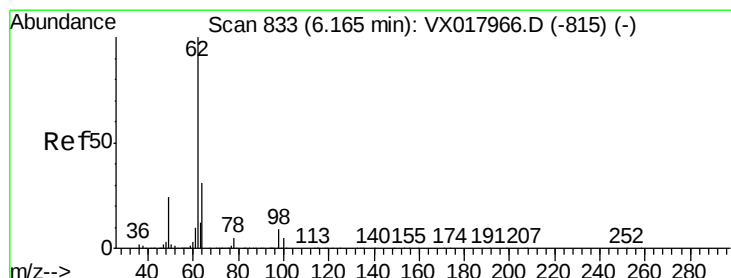
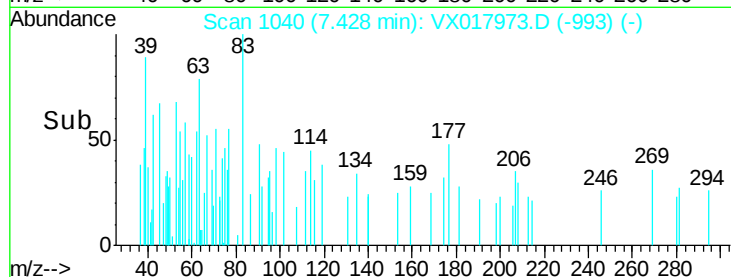
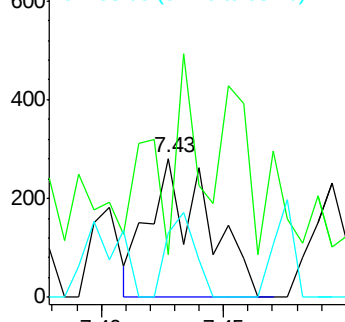
98 7.8 39.0 58.6#



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#42

1,2-Dichloroethane

Concen: 0.211 ug/l

RT: 6.17 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX017973.D

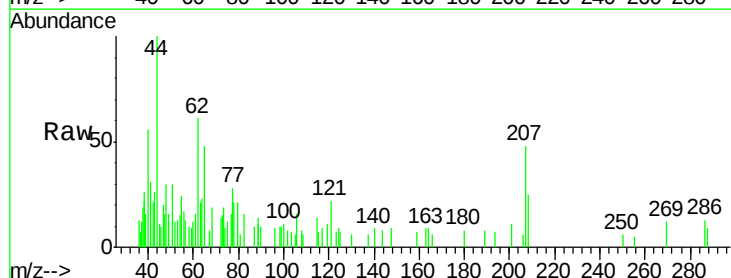
Acq: 19 Aug 2020 10:46

Tgt Ion: 62 Resp: 1839

Ion Ratio Lower Upper

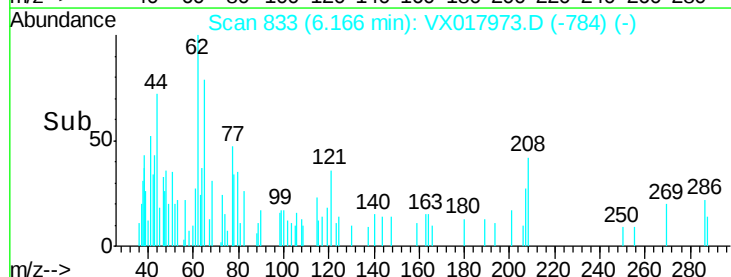
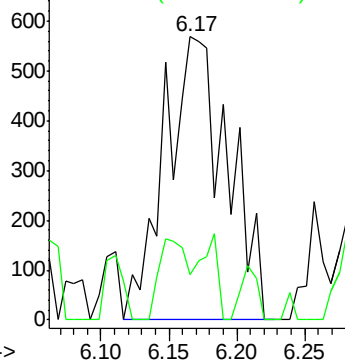
62 100

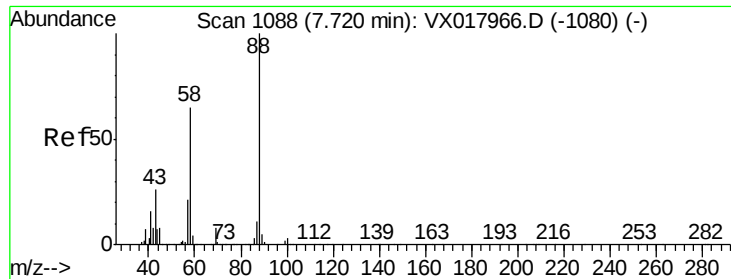
98 8.4 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

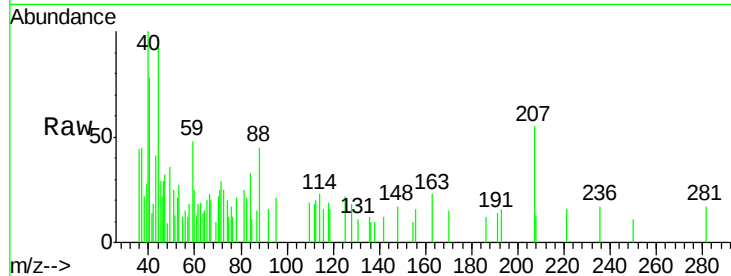




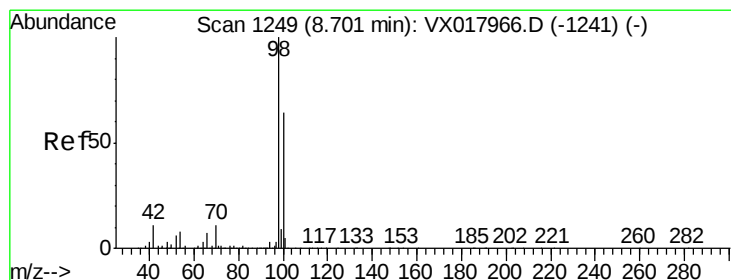
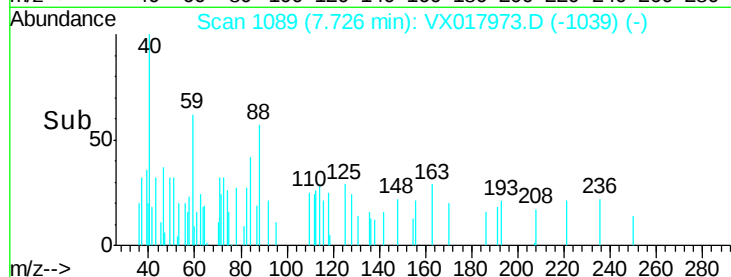
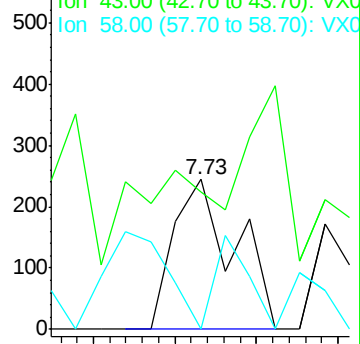
#49
1,4-Dioxane
Concen: 1.898 ug/l
RT: 7.73 min Scan# 1089
Delta R.T. 0.01 min
Lab File: VX017973.D
Acq: 19 Aug 2020 10:46

Instrument :
MSVOA_X
ClientSampleId :
TT-TB-20200814

Tgt Ion: 88 Resp: 254
Ion Ratio Lower Upper
88 100
43 13.4 27.3 40.9#
58 34.6 57.7 86.5#

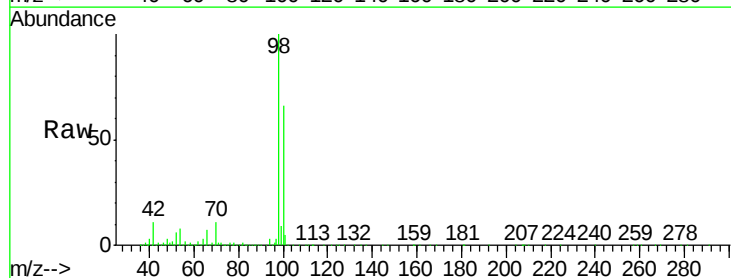


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

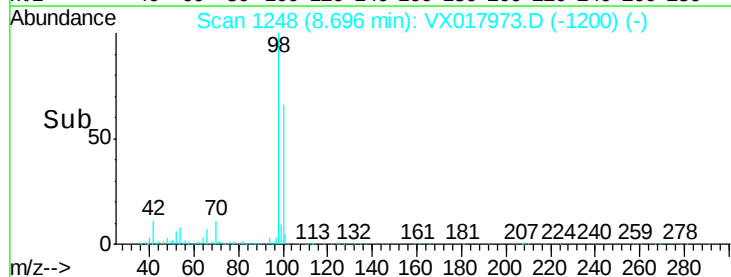
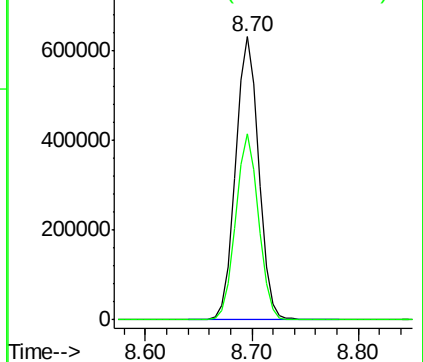


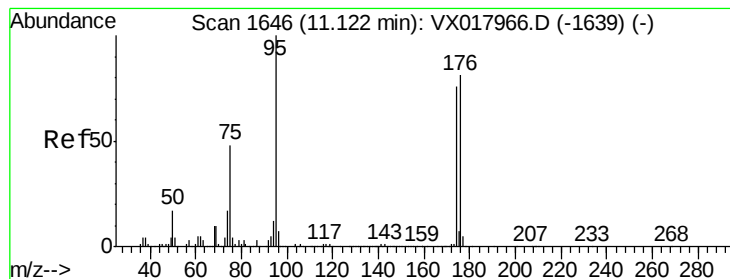
#50
Toluene-d8
Concen: 44.919 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.01 min
Lab File: VX017973.D
Acq: 19 Aug 2020 10:46

Tgt Ion: 98 Resp: 964533
Ion Ratio Lower Upper
98 100
100 65.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.648 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

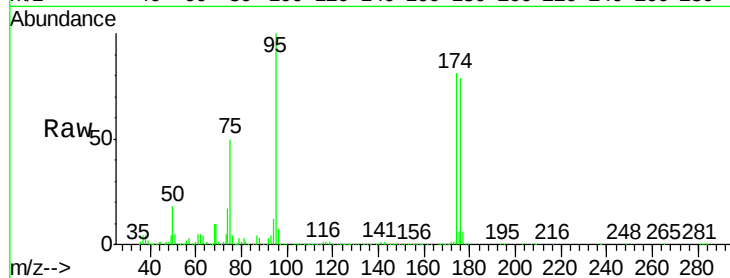
Tgt Ion: 95 Resp: 346162

Ion Ratio Lower Upper

95 100

174 80.3 0.0 166.0

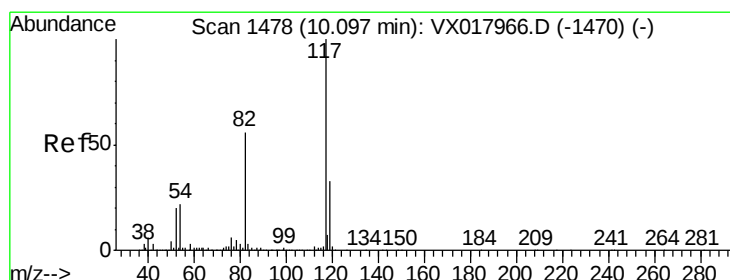
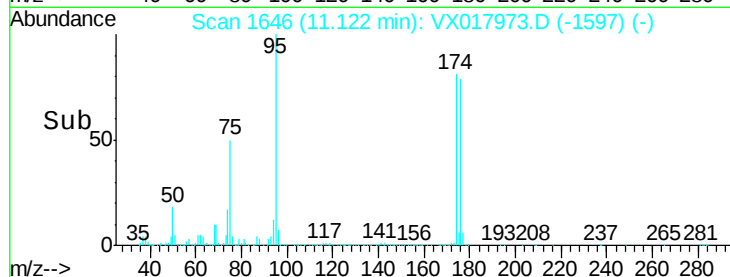
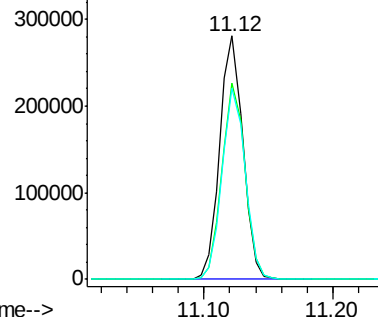
176 78.6 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX017966.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX017966.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX017966.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

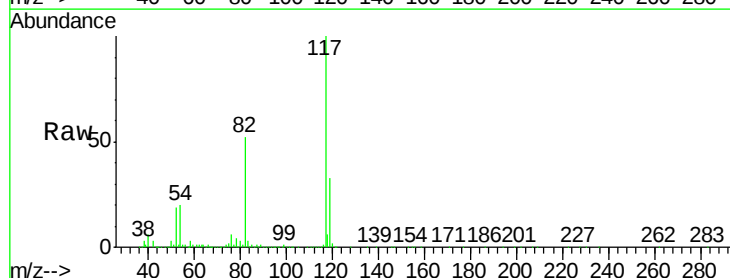
Tgt Ion: 117 Resp: 742908

Ion Ratio Lower Upper

117 100

82 52.2 44.6 66.8

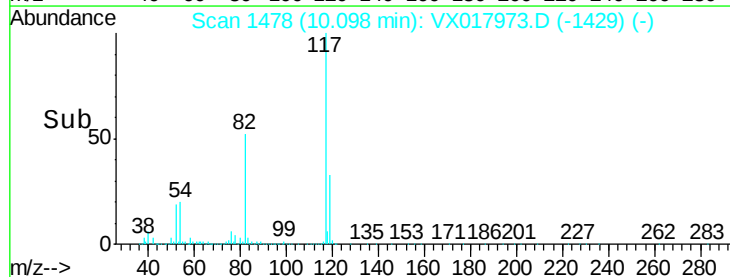
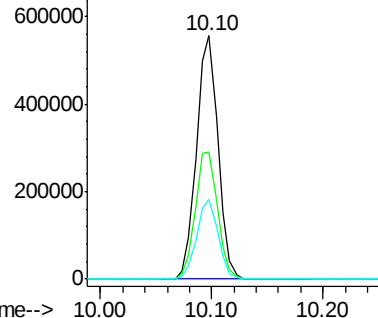
119 32.8 26.2 39.4

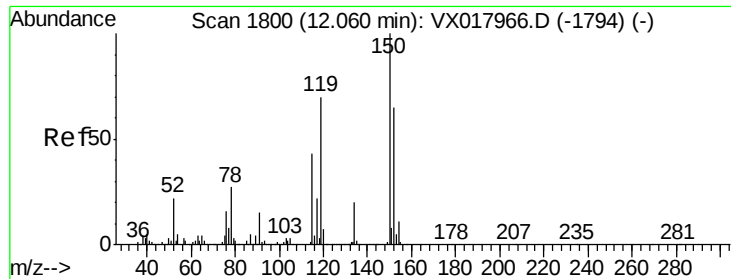


Abundance Ion 116.90 (116.60 to 117.60): VX017966.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX017966.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX017966.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: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

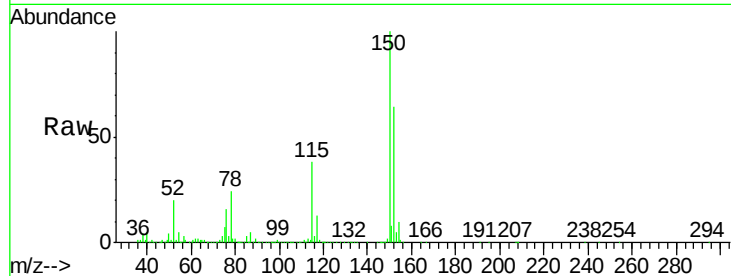
Tgt Ion: 152 Resp: 349350

Ion Ratio Lower Upper

152 100

115 59.6 40.6 121.7

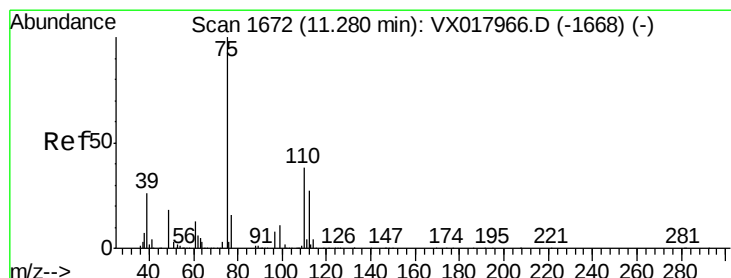
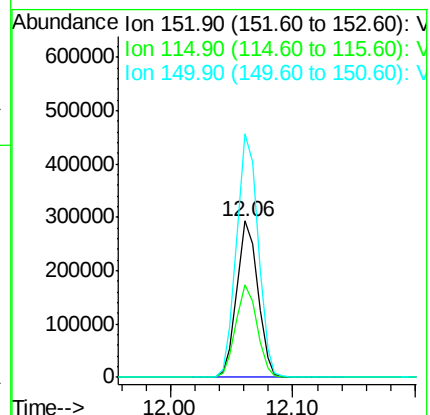
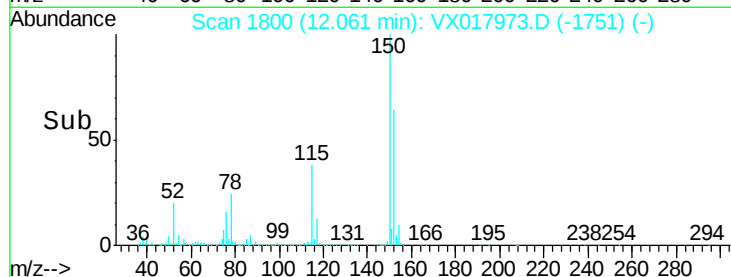
150 158.3 0.0 346.4



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: 23.188 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017973.D

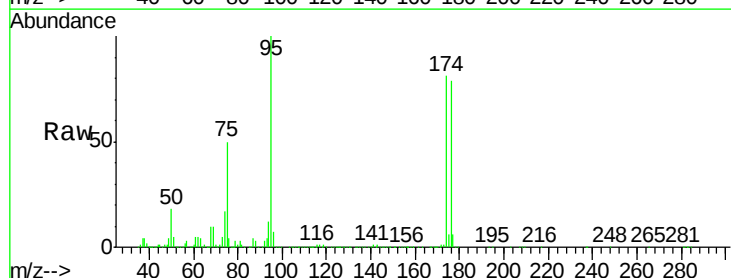
Acq: 19 Aug 2020 10:46

Tgt Ion: 75 Resp: 172274

Ion Ratio Lower Upper

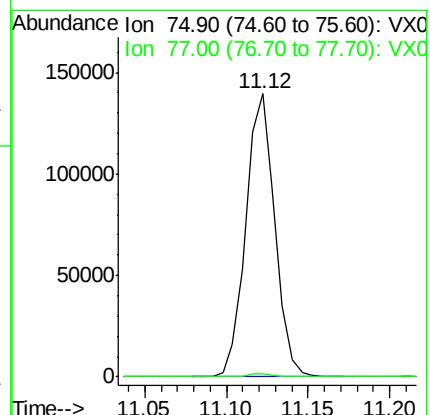
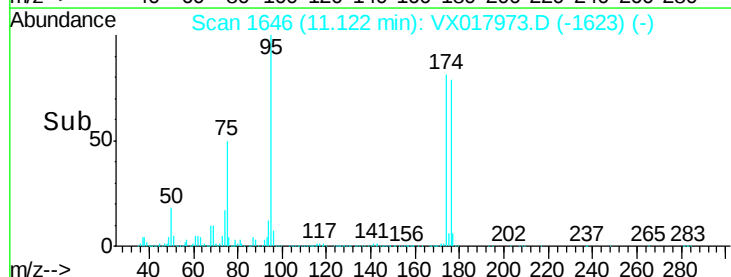
75 100

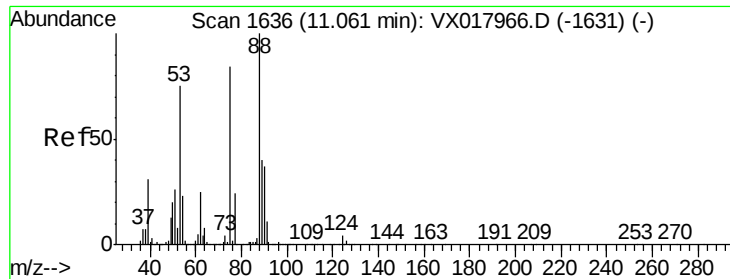
77 1.2 21.1 63.1#



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: 60.917 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

Instrument :

MSVOA_X

ClientSampleId :

TT-TB-20200814

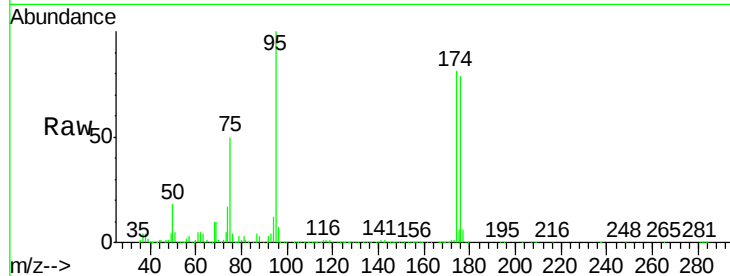
Tgt Ion: 75 Resp: 172274

Ion Ratio Lower Upper

75 100

53 0.2 75.2 112.8#

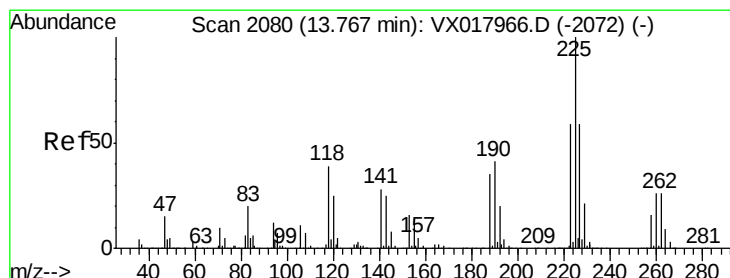
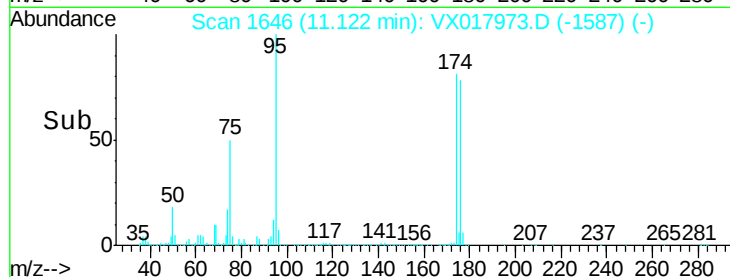
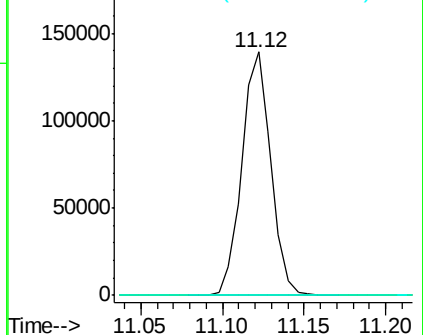
89 0.1 38.4 57.6#



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: 0.207 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017973.D

Acq: 19 Aug 2020 10:46

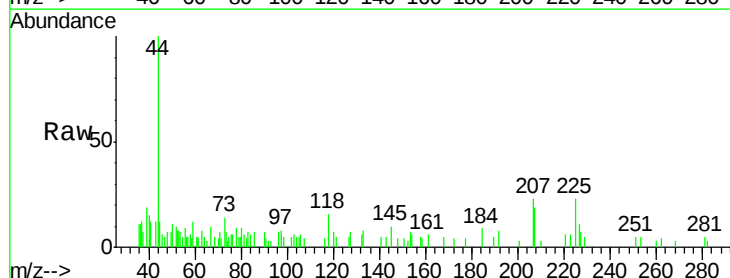
Tgt Ion: 225 Resp: 608

Ion Ratio Lower Upper

225 100

223 42.9 32.1 96.3

227 59.4 29.8 89.5



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

