

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051820\
 Data File : VX016311.D
 Acq On : 18 May 2020 20:20
 Operator : JC/SP
 Sample : L2672-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 19 00:51:24 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	5.64	168	259848	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	431403	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	421206	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215423	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	152132	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	
35) Dibromofluoromethane	5.47	113	123738	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
50) Toluene-d8	8.70	98	529417	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	11.12	95	213484	53.30	ug/l	0.00
Spiked Amount			Recovery	=	106.60%	

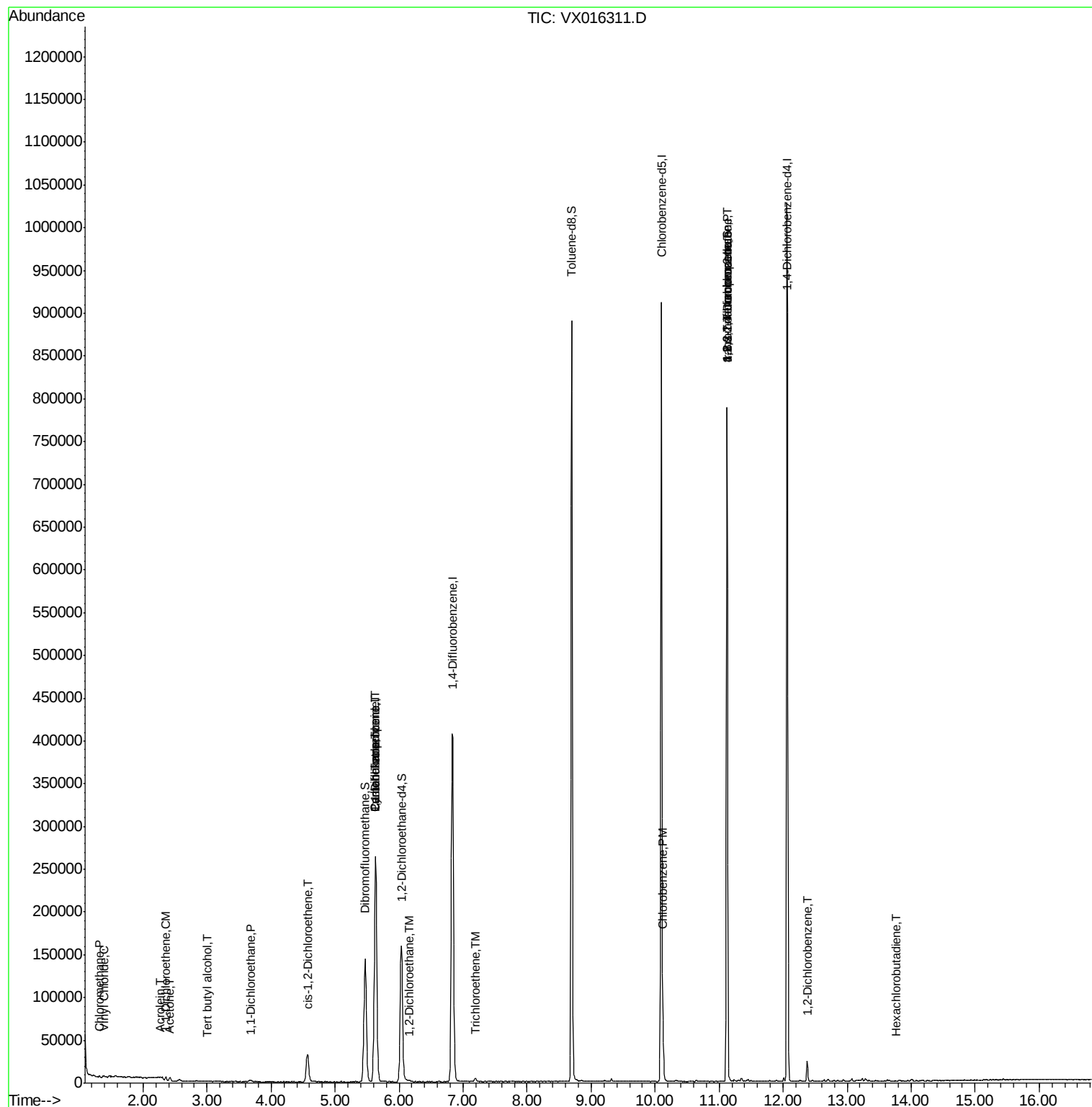
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1324	0.415	ug/l	91
4) Vinyl Chloride	1.39	62	807	0.237	ug/l	94
11) Tert butyl alcohol	3.01	59	251	0.290	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	2025	0.750	ug/l #	79
13) Acrolein	2.27	56	460	0.850	ug/l #	44
16) Acetone	2.42	43	4448	2.915	ug/l	100
17) Carbon Disulfide	2.55	76	1440	Below Cal	#	85
24) 1,1-Dichloroethane	3.68	63	2551	0.488	ug/l #	95
27) cis-1,2-Dichloroethene	4.57	96	22685	6.894	ug/l	83
31) Cyclohexane	5.62	56	4654	0.980	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18121	4.267	ug/l #	49
38) Carbon Tetrachloride	5.63	117	24841	5.755	ug/l #	14
42) 1,2-Dichloroethane	6.16	62	1222	0.273	ug/l	88
44) Trichloroethene	7.19	130	1555	0.352	ug/l	99
65) Chlorobenzene	10.12	112	22954	2.603	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.12	83	96	2.082	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	103047	21.080	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	103047	50.235	ug/l #	13
91) 1,2-Dichlorobenzene	12.38	146	8023	1.147	ug/l	94
94) Hexachlorobutadiene	13.77	225	144	0.587	ug/l	73

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

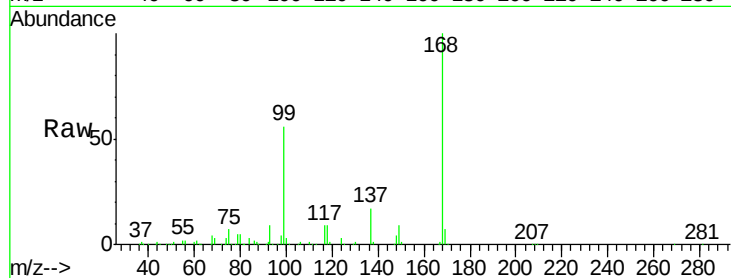
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 259848

Ion Ratio Lower Upper

168 100

99 56.2 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

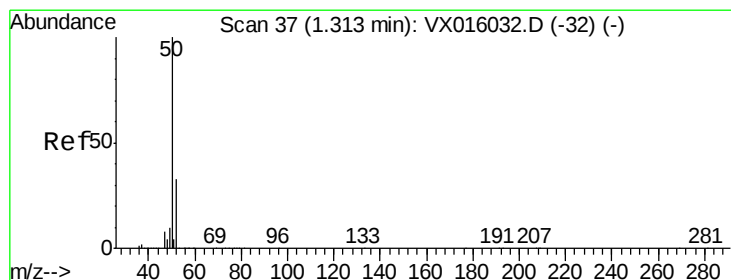
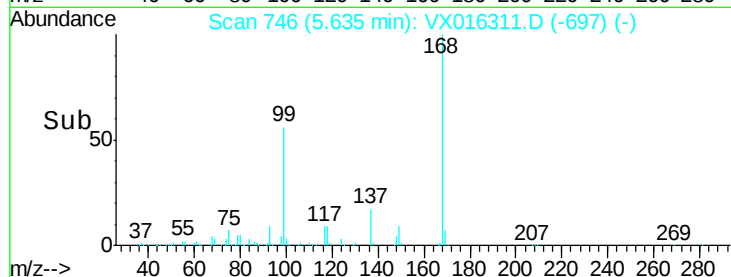
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.415 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016311.D

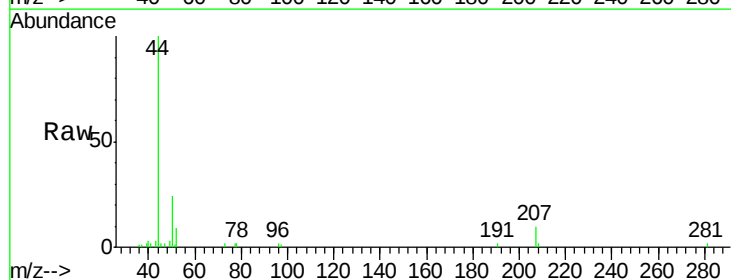
Acq: 18 May 2020 20:20

Tgt Ion: 50 Resp: 1324

Ion Ratio Lower Upper

50 100

52 37.6 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

1200

1000

800

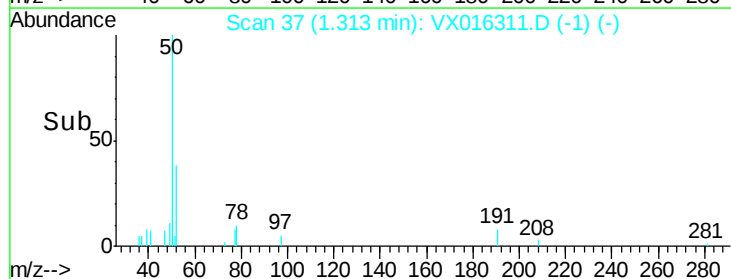
600

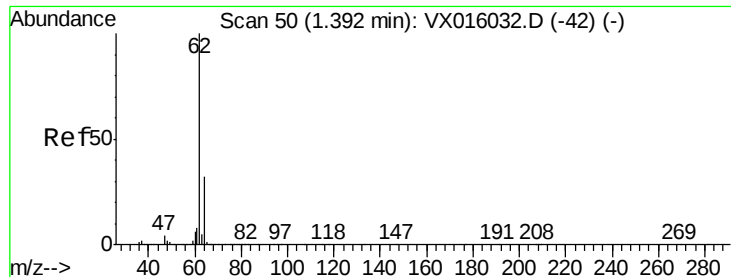
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.237 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

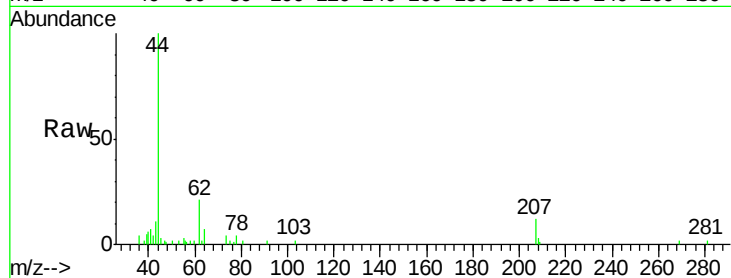
ClientSampled :

Tot Ion: 62 Resp: 807

Ion Ratio Lower Upper

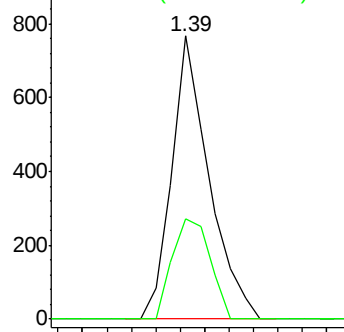
62 100

64 35.3 25.7 38.5

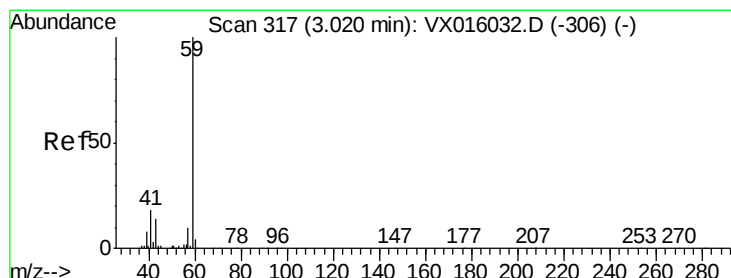
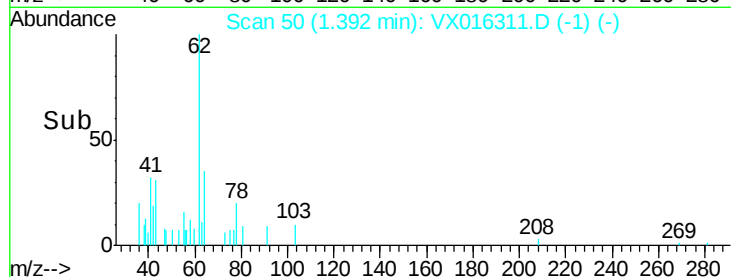


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 0.290 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016311.D

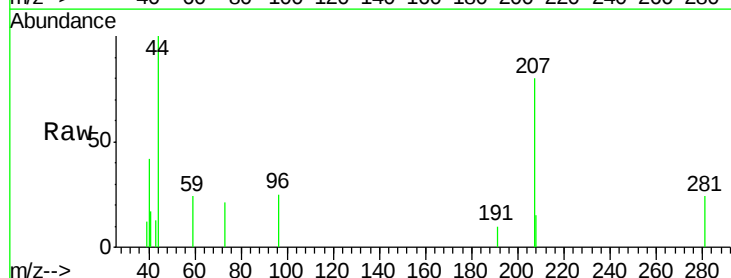
Acq: 18 May 2020 20:20

Tgt Ion: 59 Resp: 251

Ion Ratio Lower Upper

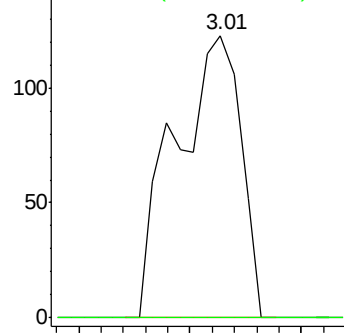
59 100

57 0.0 8.2 12.4#

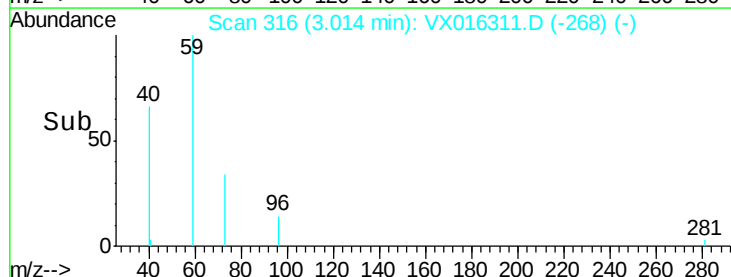


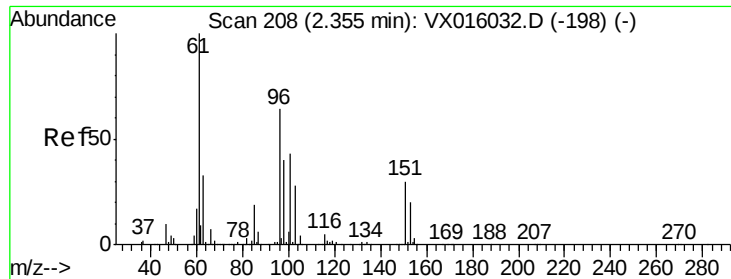
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->





#12

1,1-Dichloroethene

Concen: 0.750 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :
MSVOA_X
ClientSampleId :

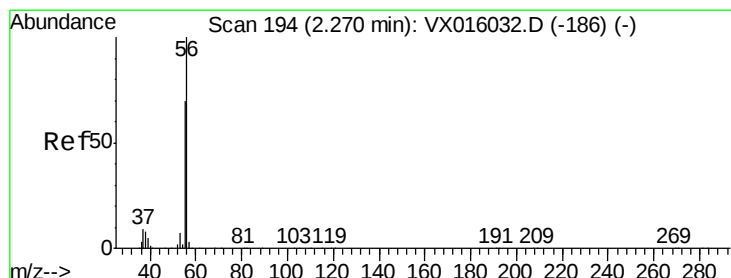
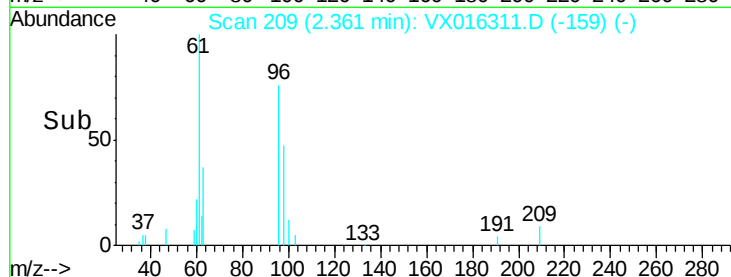
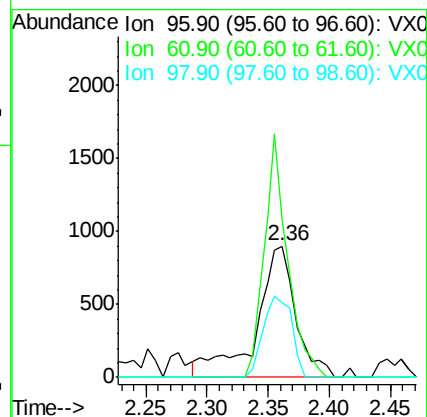
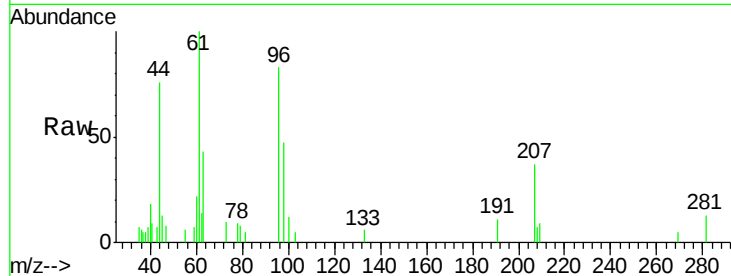
Tot Ion: 96 Resp: 2025

Ion Ratio Lower Upper

96 100

61 120.5 124.8 187.2#

98 56.8 49.7 74.5



#13

Acrolein

Concen: 0.850 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX016311.D

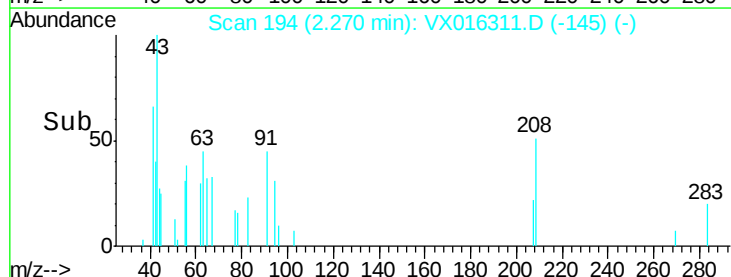
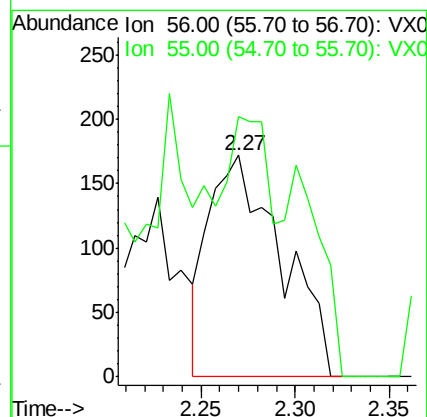
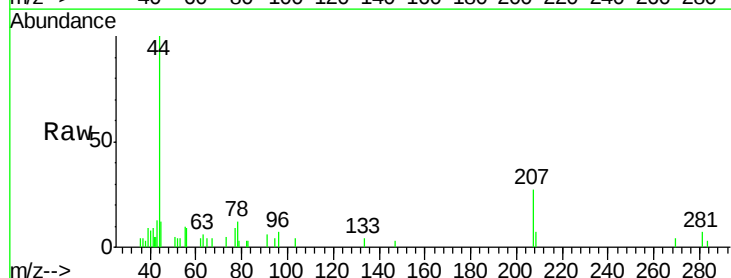
Acq: 18 May 2020 20:20

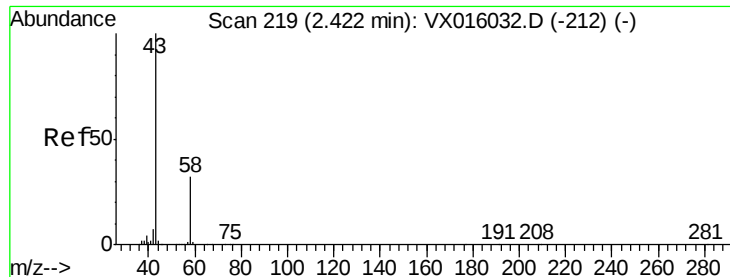
Tgt Ion: 56 Resp: 460

Ion Ratio Lower Upper

56 100

55 24.3 56.5 84.7#





#16

Acetone

Concen: 2.915 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

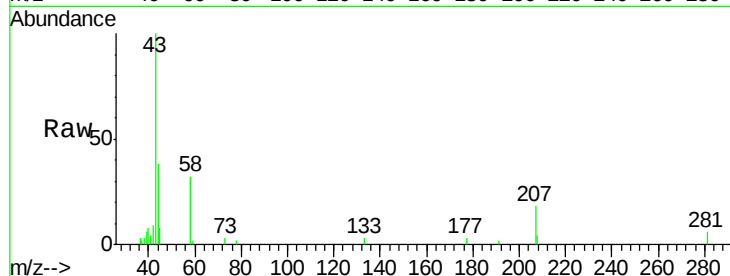
ClientSampled :

Tot Ion: 43 Resp: 4448

Ion Ratio Lower Upper

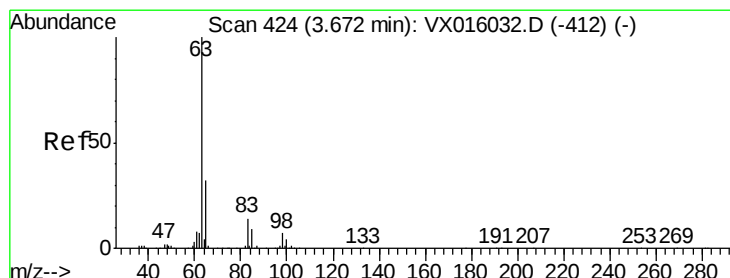
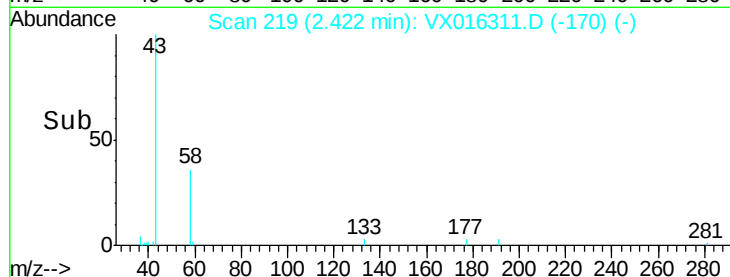
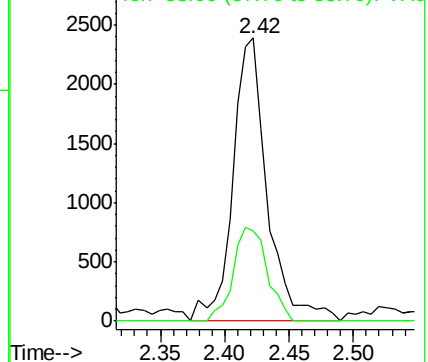
43 100

58 31.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#24

1,1-Dichloroethane

Concen: 0.488 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

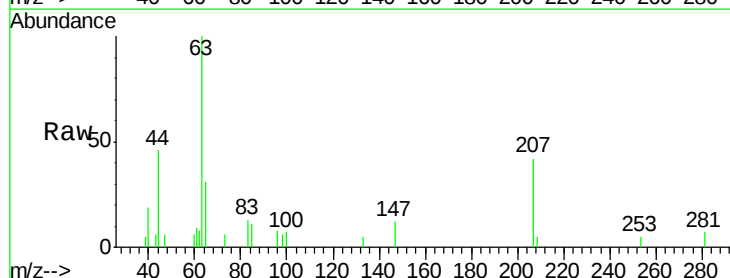
Tgt Ion: 63 Resp: 2551

Ion Ratio Lower Upper

63 100

98 6.0 3.5 10.5

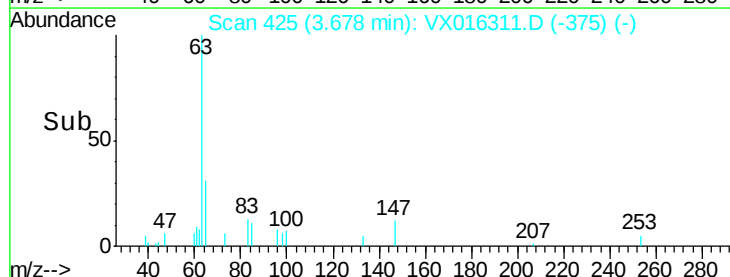
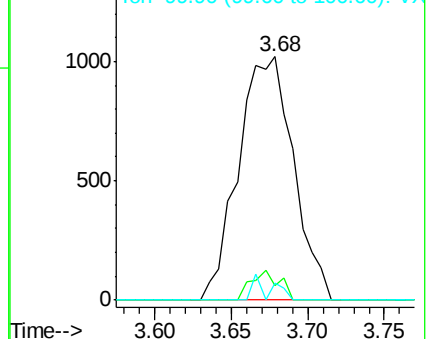
100 6.9 2.1 6.5#

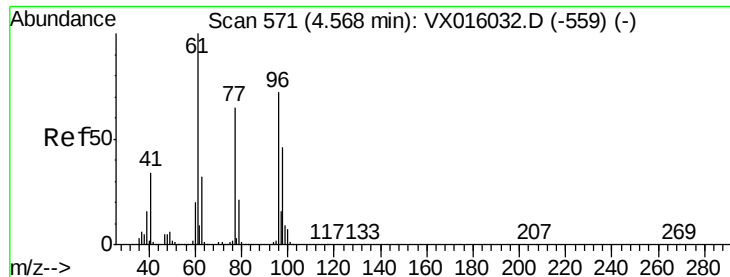


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



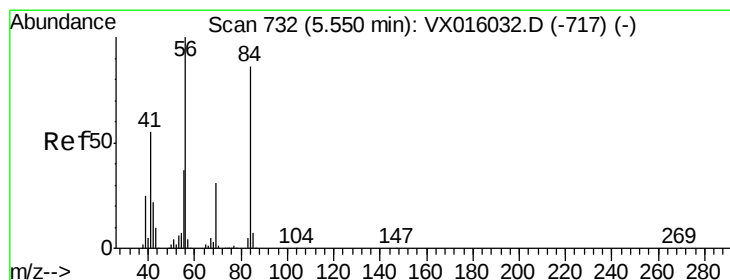
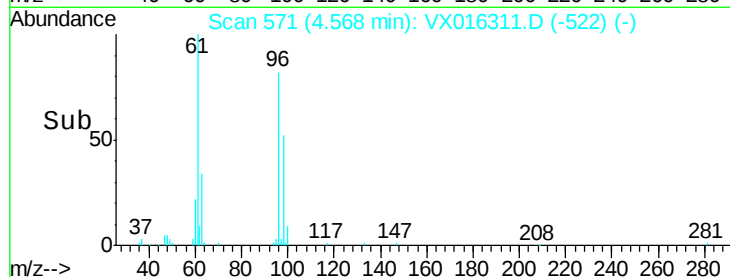
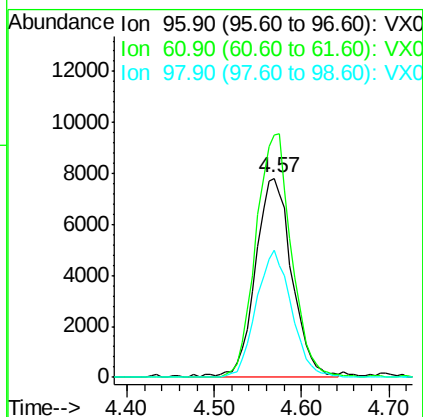
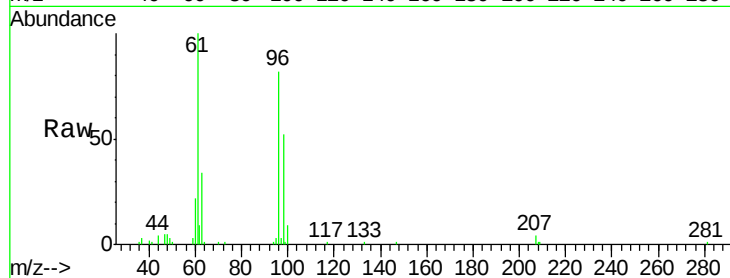


#27

cis-1,2-Dichloroethene
Concen: 6.894 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.00 min
Lab File: VX016311.D
Acq: 18 May 2020 20:20

Instrument :
MSVOA_X
ClientSampleId :

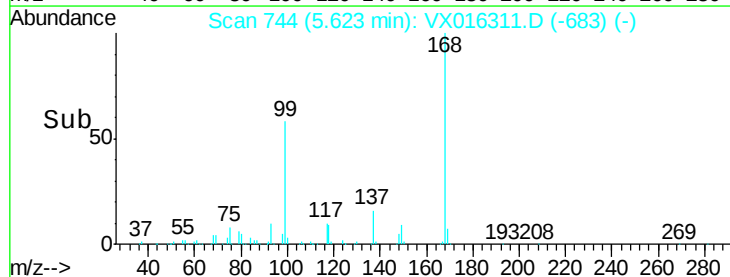
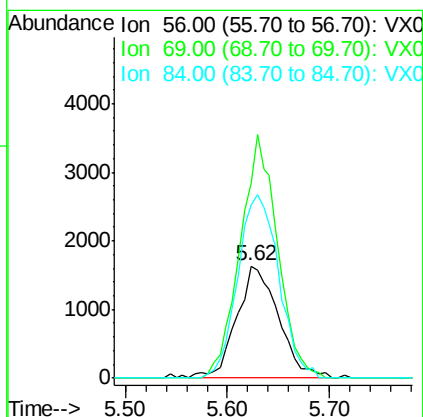
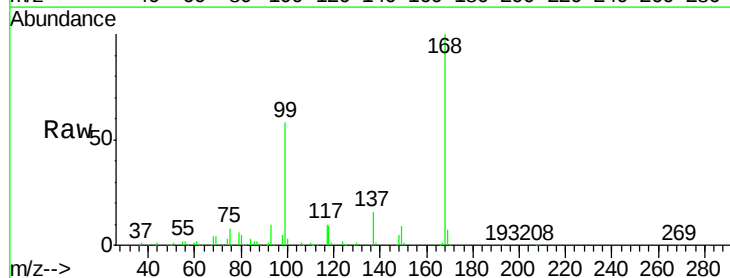
Tot Ion	Ratio	Lower	Upper
96	100		
61	119.6	0.0	296.2
98	61.8	0.0	129.4

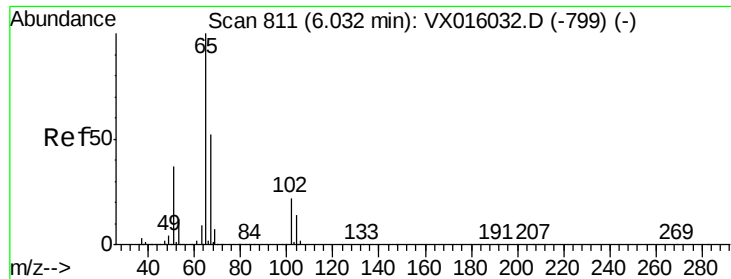


#31

Cyclohexane
Concen: 0.980 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.07 min
Lab File: VX016311.D
Acq: 18 May 2020 20:20

Tgt Ion	Ratio	Lower	Upper
56	100		
69	174.1	25.0	37.6#
84	154.4	69.0	103.6#





#33

1,2-Dichloroethane-d4

Concen: 44.492 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

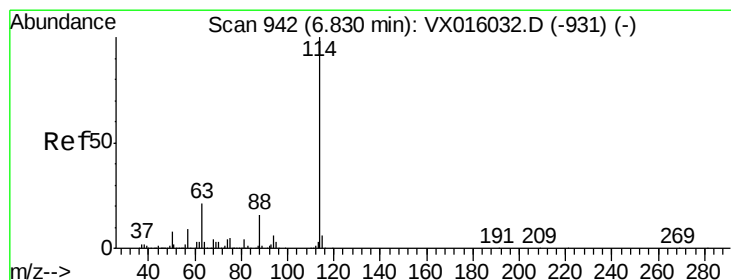
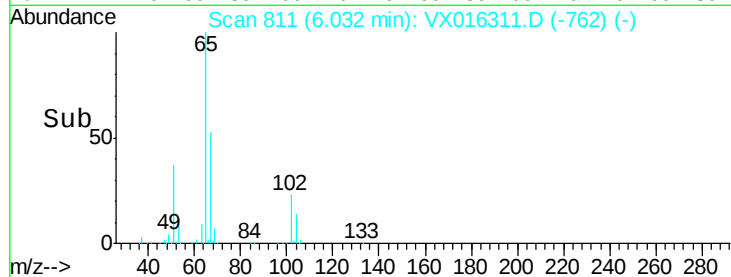
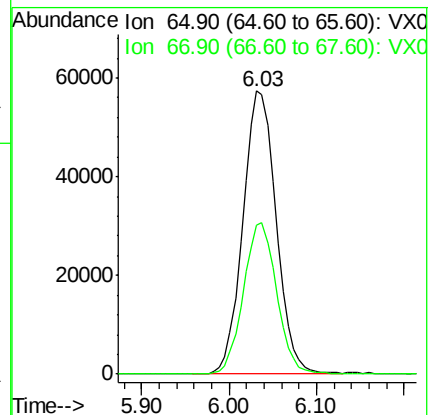
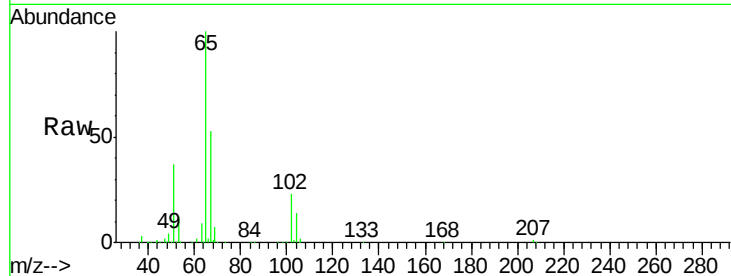
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 152132

Ion Ratio Lower Upper

65 100

67 53.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

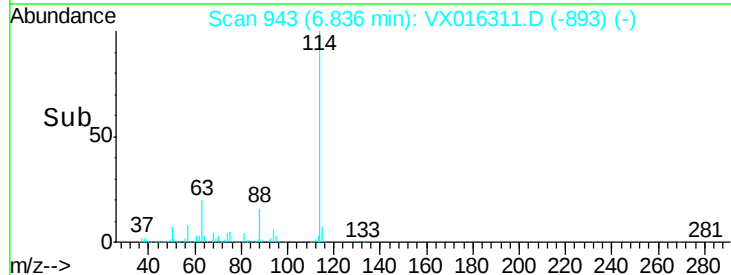
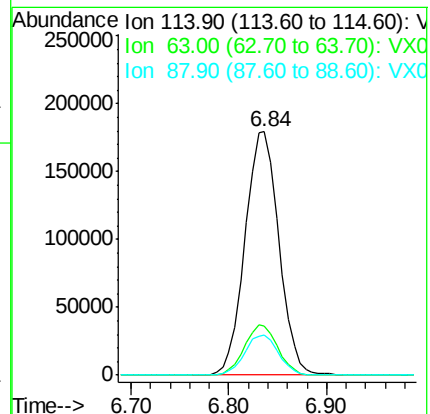
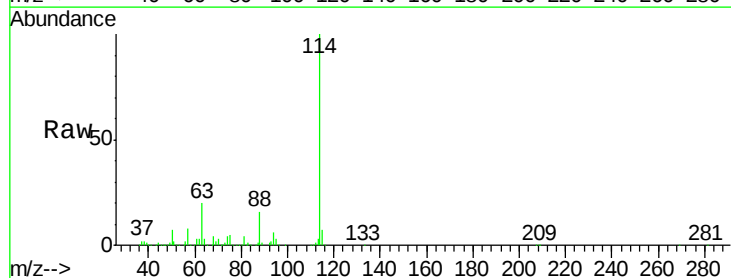
Tgt Ion: 114 Resp: 431403

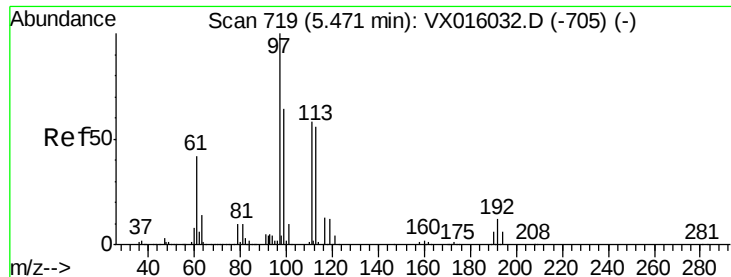
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

88 16.4 0.0 31.4

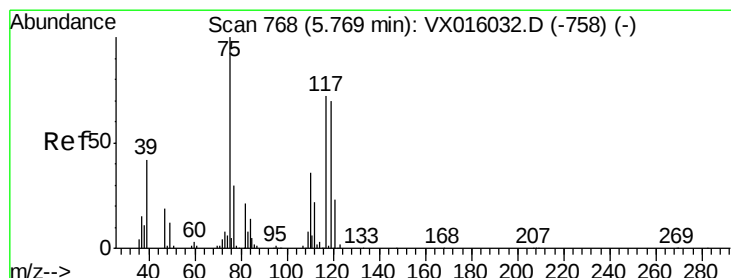
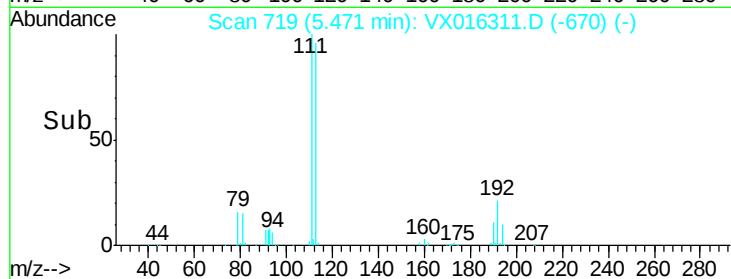
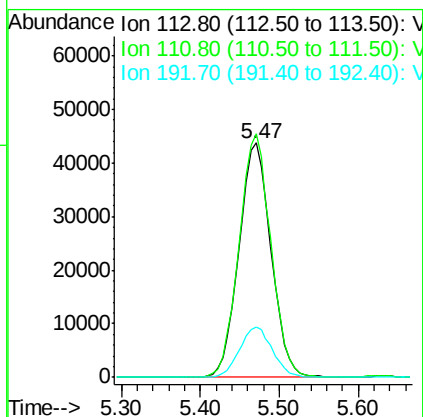
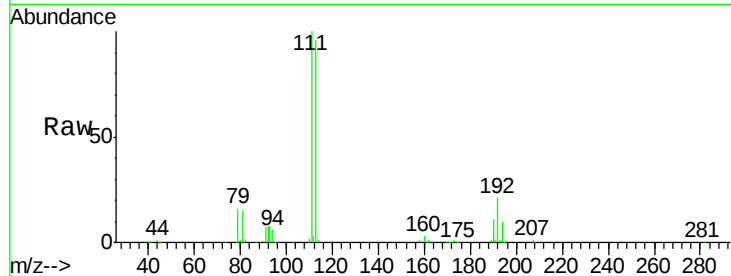




#35
Dibromofluoromethane
Concen: 45.273 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.00 min
Lab File: VX016311.D
Acq: 18 May 2020 20:20

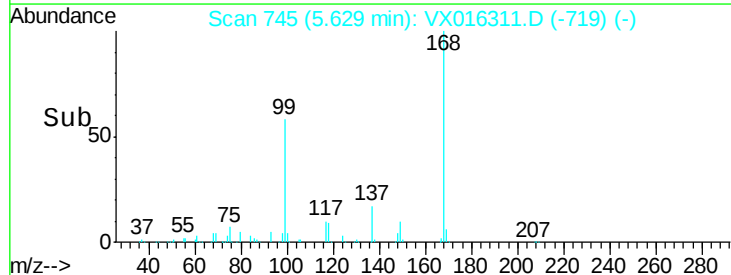
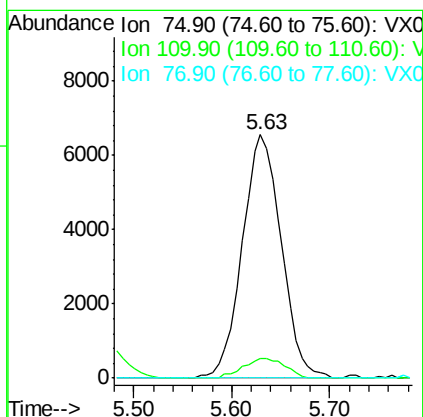
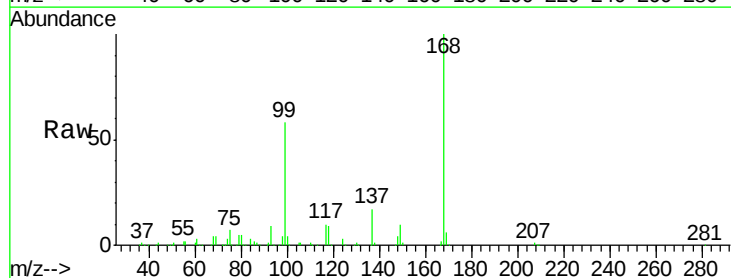
Instrument :
MSVOA_X
ClientSampleId :

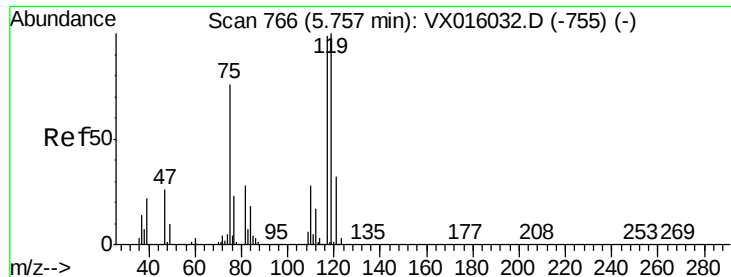
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.6	122.4
192	21.9	17.0	25.4



#36
1,1-Dichloropropene
Concen: 4.267 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX016311.D
Acq: 18 May 2020 20:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.1#
77	0.0	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 5.755 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

ClientSampleId :

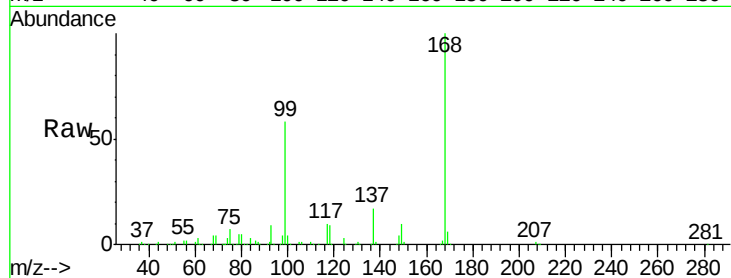
Tot Ion:117 Resp: 24841

Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

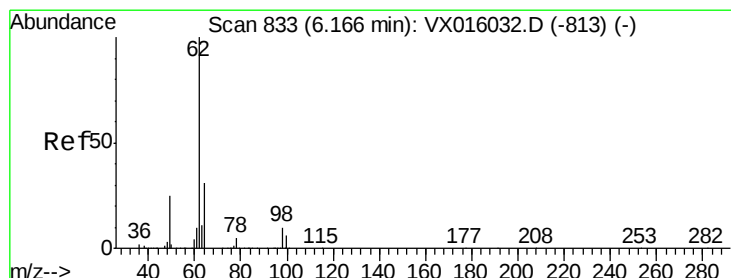
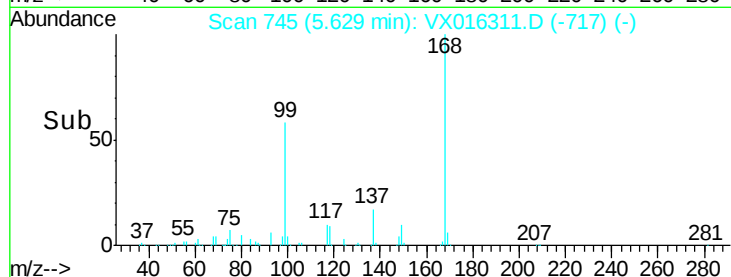
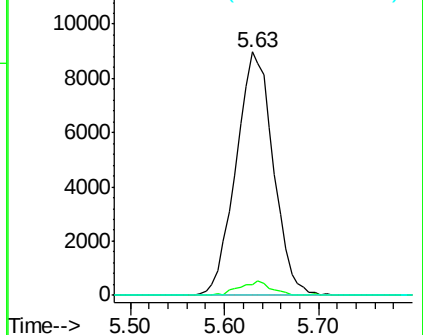
121 0.0 25.7 38.5#



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



#42

1,2-Dichloroethane

Concen: 0.273 ug/l

RT: 6.16 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX016311.D

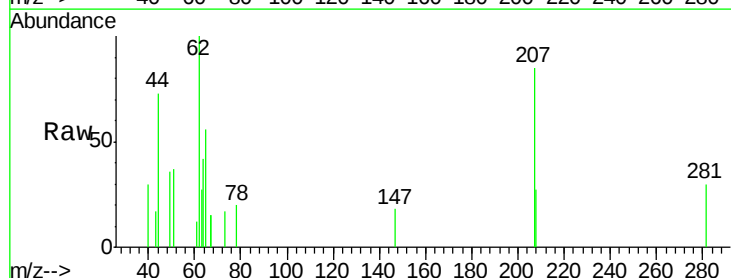
Acq: 18 May 2020 20:20

Tgt Ion: 62 Resp: 1222

Ion Ratio Lower Upper

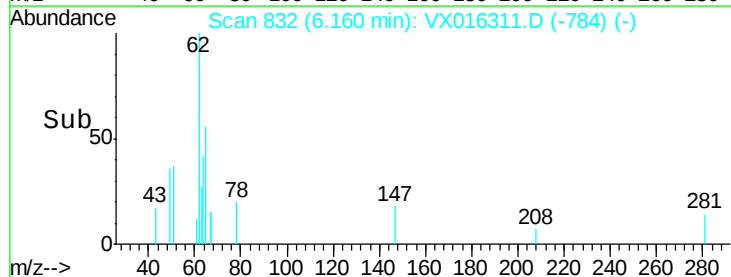
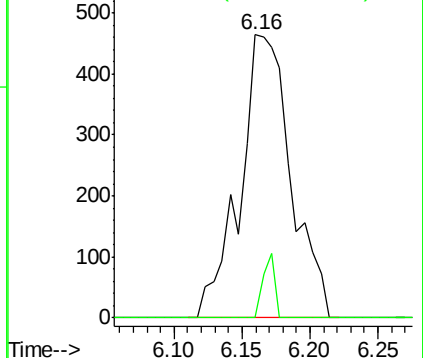
62 100

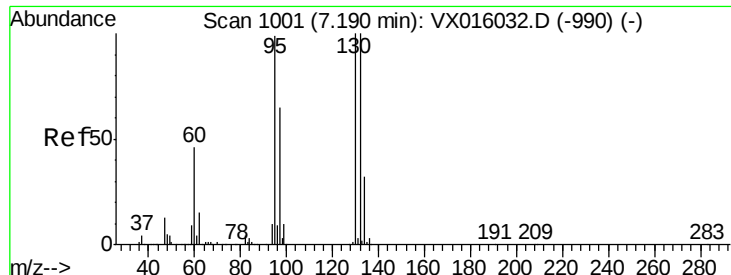
98 5.3 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 0.352 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

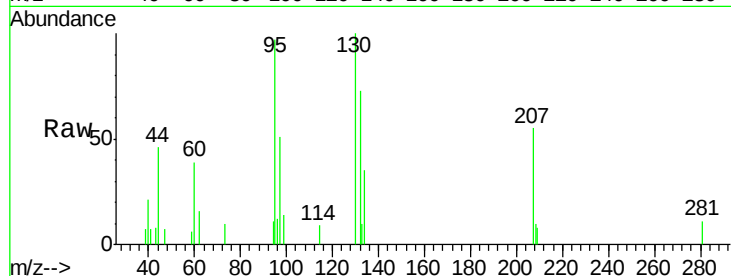
ClientSampleId :

Tot Ion:130 Resp: 1555

Ion Ratio Lower Upper

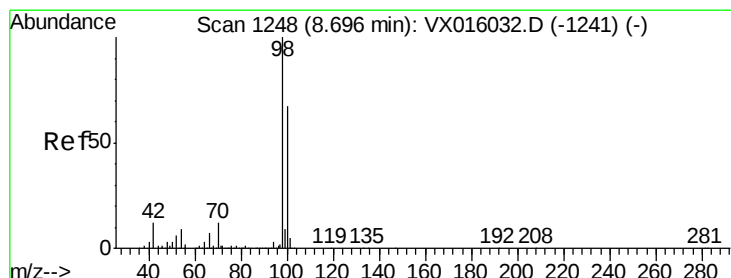
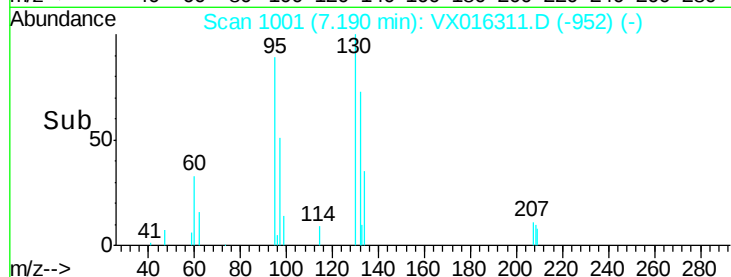
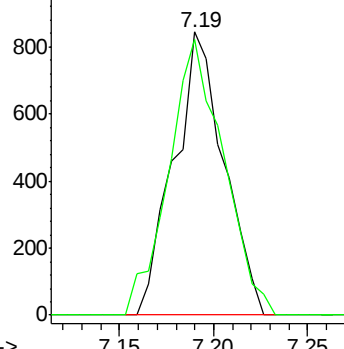
130 100

95 97.3 0.0 197.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.273 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016311.D

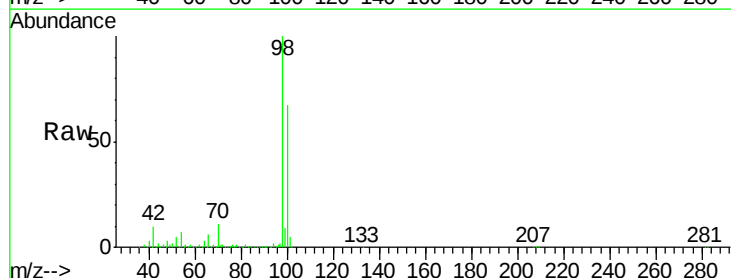
Acq: 18 May 2020 20:20

Tgt Ion: 98 Resp: 529417

Ion Ratio Lower Upper

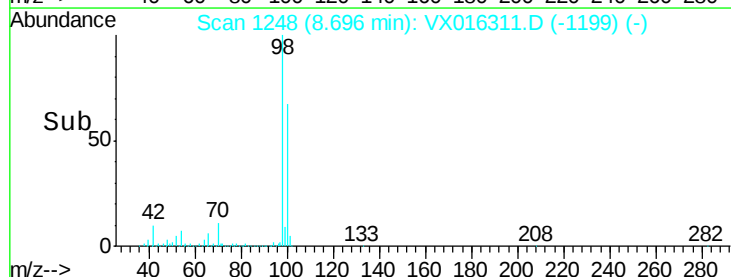
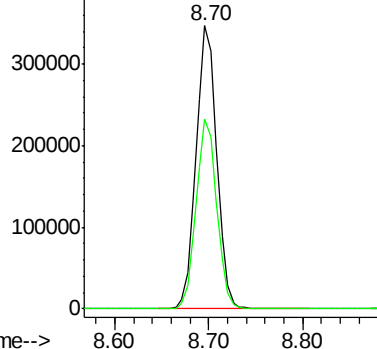
98 100

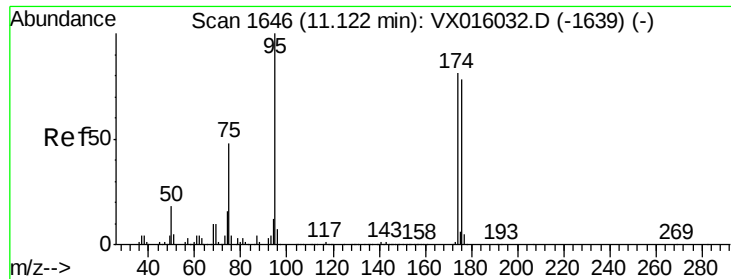
100 67.0 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 53.298 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

ClientSampled :

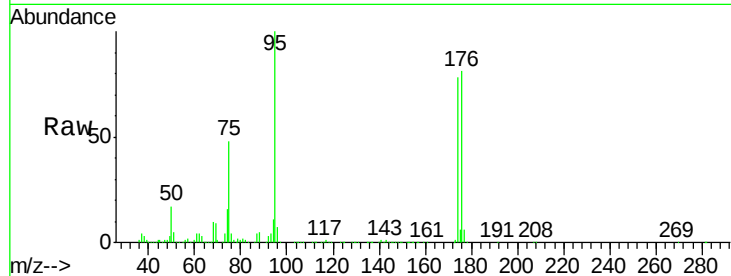
Tot Ion: 95 Resp: 213484

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.4

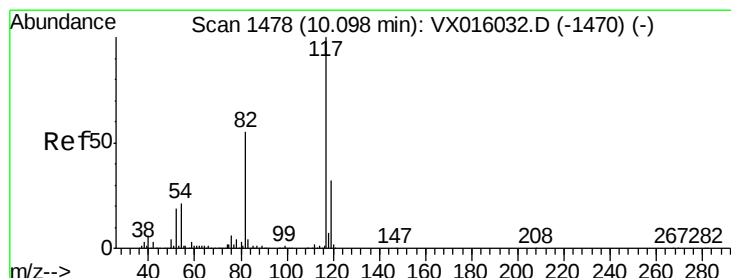
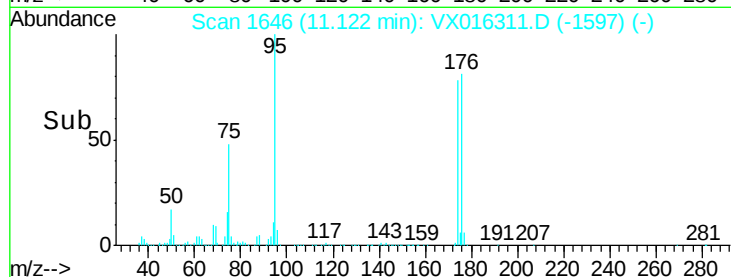
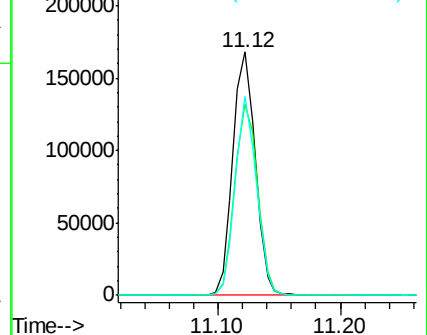
176 77.1 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

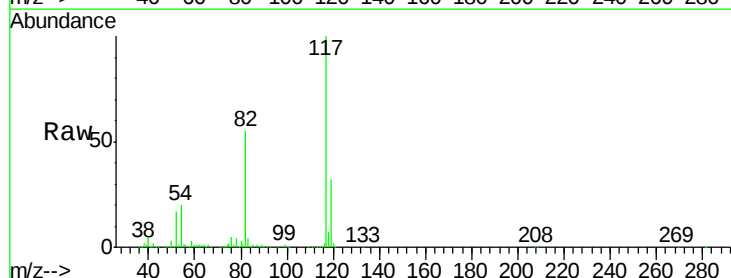
Tgt Ion: 117 Resp: 421206

Ion Ratio Lower Upper

117 100

82 55.3 44.4 66.6

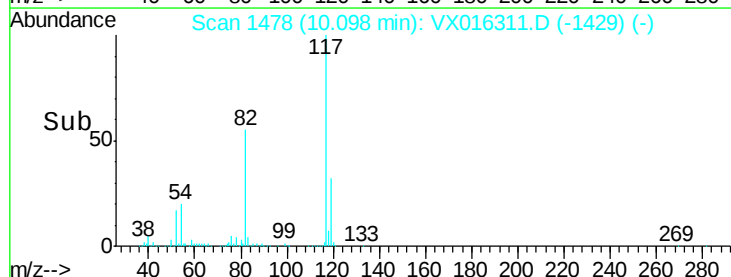
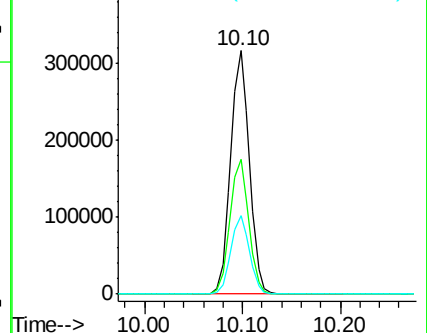
119 32.2 25.5 38.3

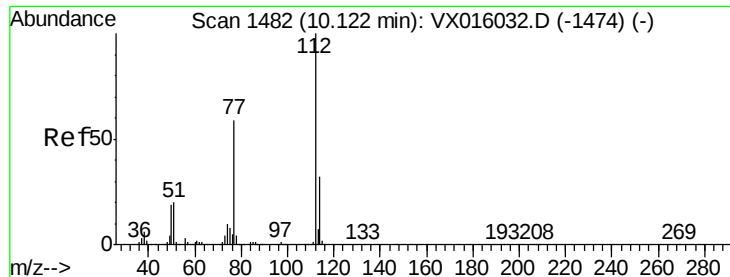


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#65

Chlorobenzene

Concen: 2.603 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

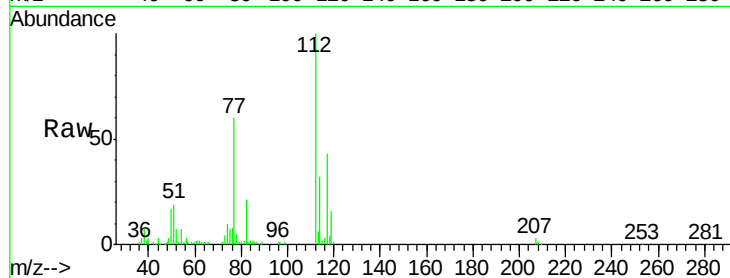
ClientSampleId :

Tot Ion:112 Resp: 22954

Ion Ratio Lower Upper

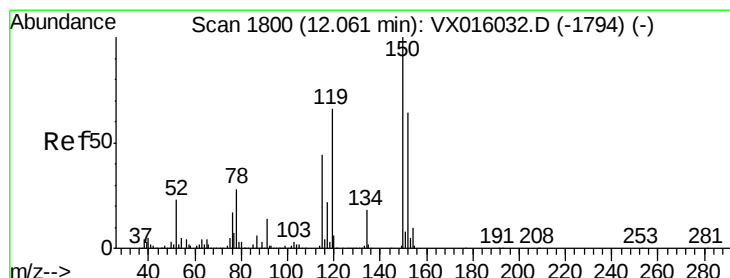
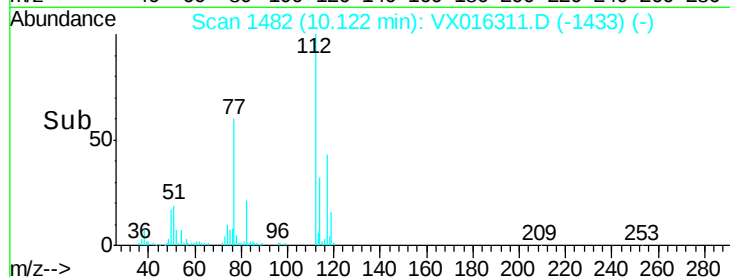
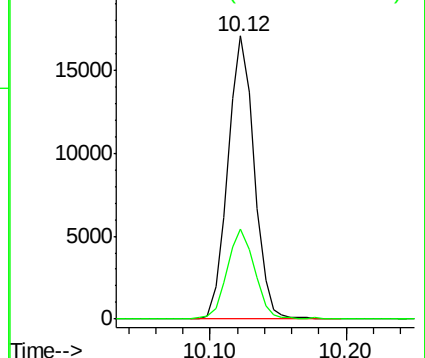
112 100

114 31.6 25.7 38.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

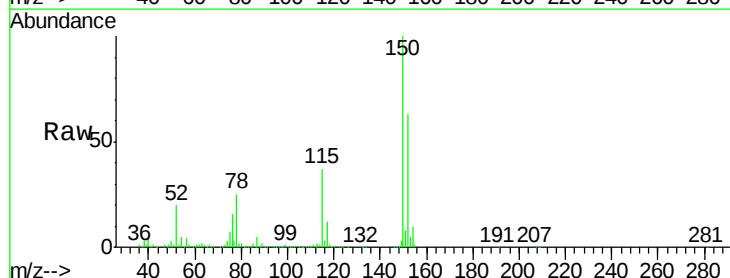
Tgt Ion:152 Resp: 215423

Ion Ratio Lower Upper

152 100

115 58.4 41.3 124.1

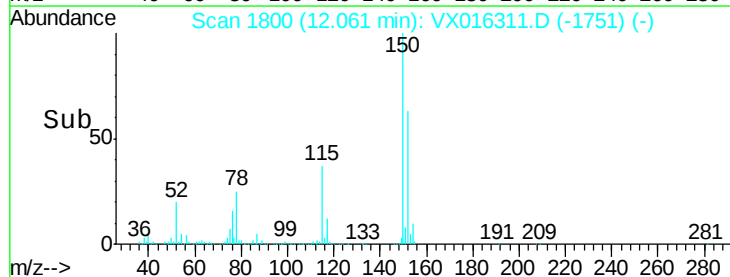
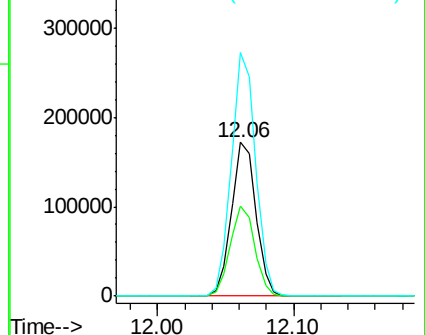
150 156.2 0.0 352.2

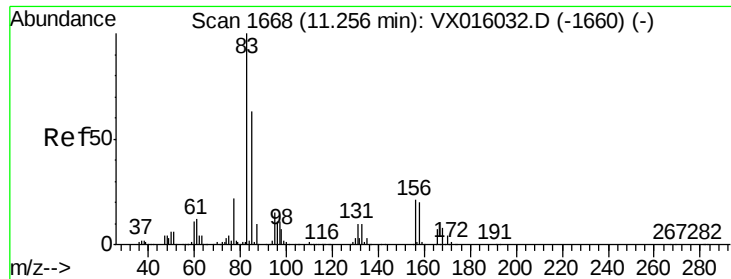


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: 2.082 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

ClientSampleId :

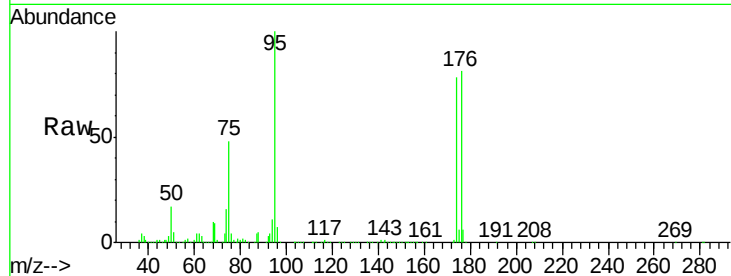
Tot Ion: 83 Resp: 96

Ion Ratio Lower Upper

83 100

131 322.9 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

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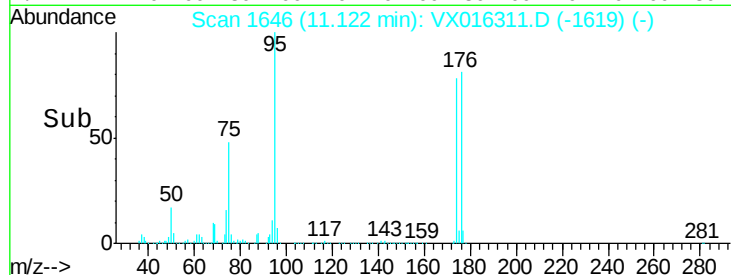
11.12

11.12

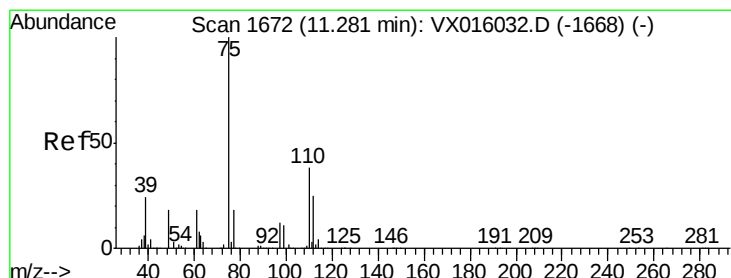
11.12

11.12

11.12



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.080 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016311.D

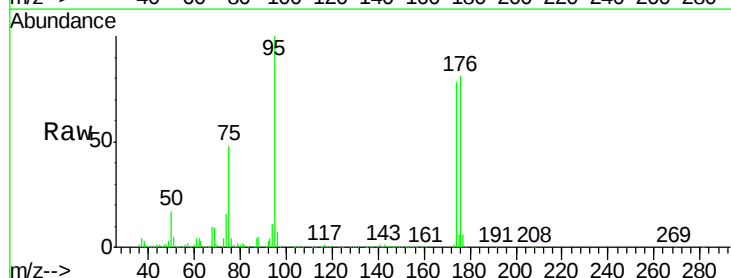
Acq: 18 May 2020 20:20

Tgt Ion: 75 Resp: 103047

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

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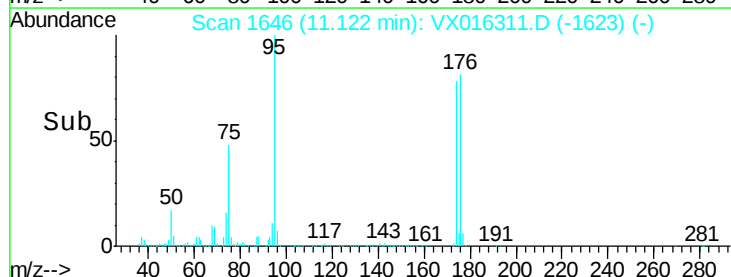
11.12

11.12

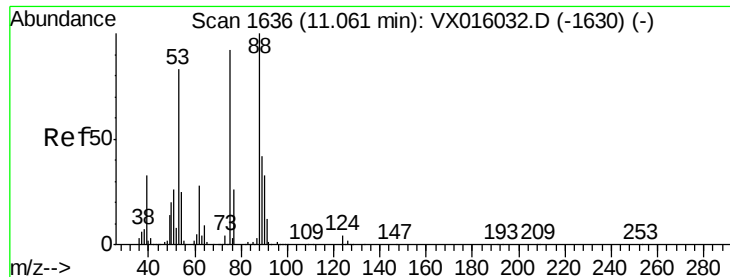
11.12

11.12

11.12



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 50.235 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

ClientSampled :

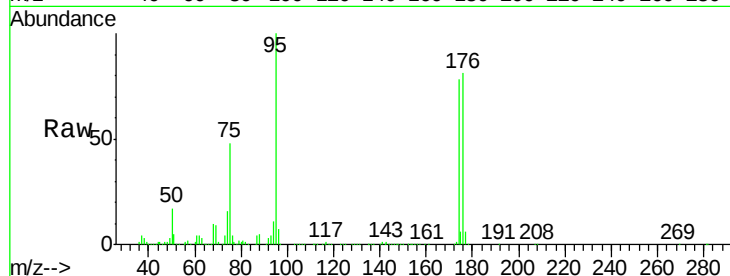
Tot Ion: 75 Resp: 103047

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

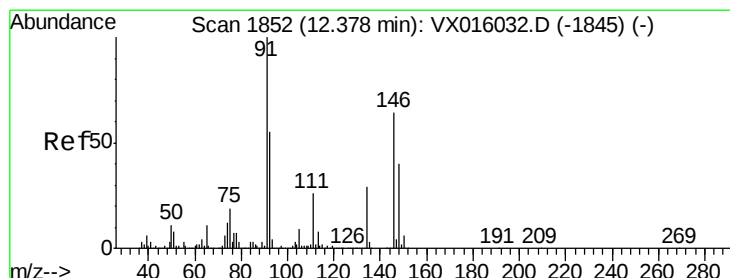
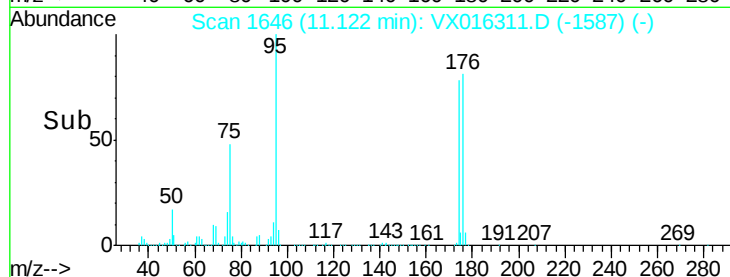
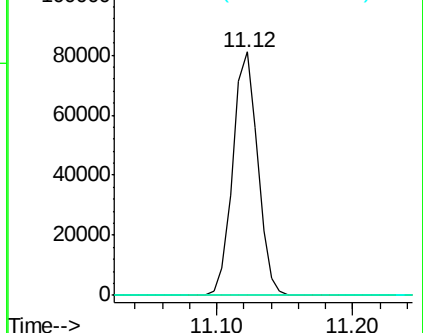
89 0.0 36.7 55.1#



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



#91

1,2-Dichlorobenzene

Concen: 1.147 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

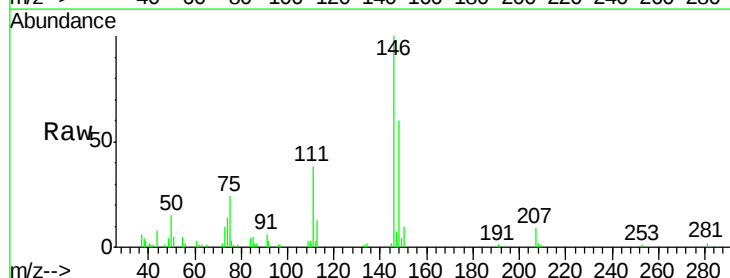
Tgt Ion:146 Resp: 8023

Ion Ratio Lower Upper

146 100

111 38.6 21.1 63.1

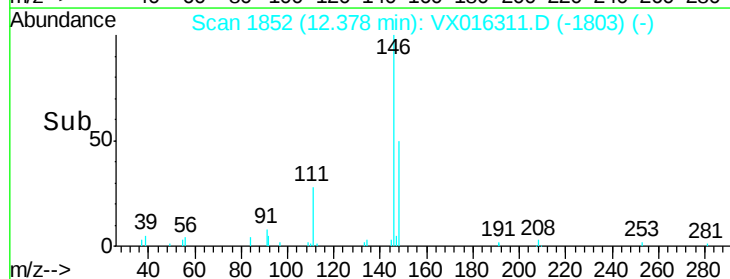
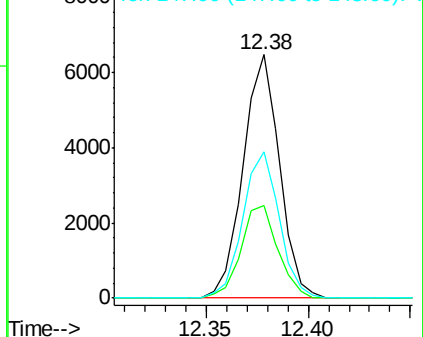
148 60.2 32.4 97.0

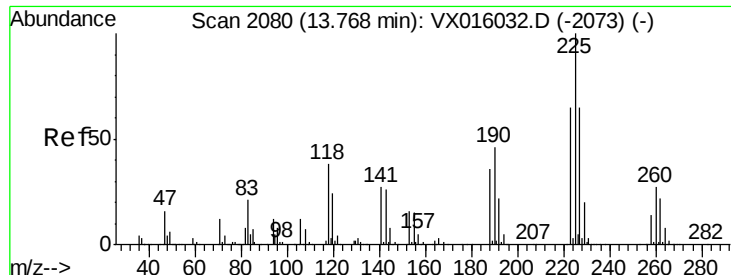


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.587 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016311.D

Acq: 18 May 2020 20:20

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	144
Ion	Ratio	Lower	Upper
225	100		
223	79.2	32.3	96.9
227	35.4	31.8	95.4

