

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051920\
 Data File : VX016341.D
 Acq On : 19 May 2020 17:41
 Operator : JC/SP
 Sample : L2663-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1381

Quant Time: May 20 03:49:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	256684	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	427227	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	403237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	200844	50.00	ug/l	0.00

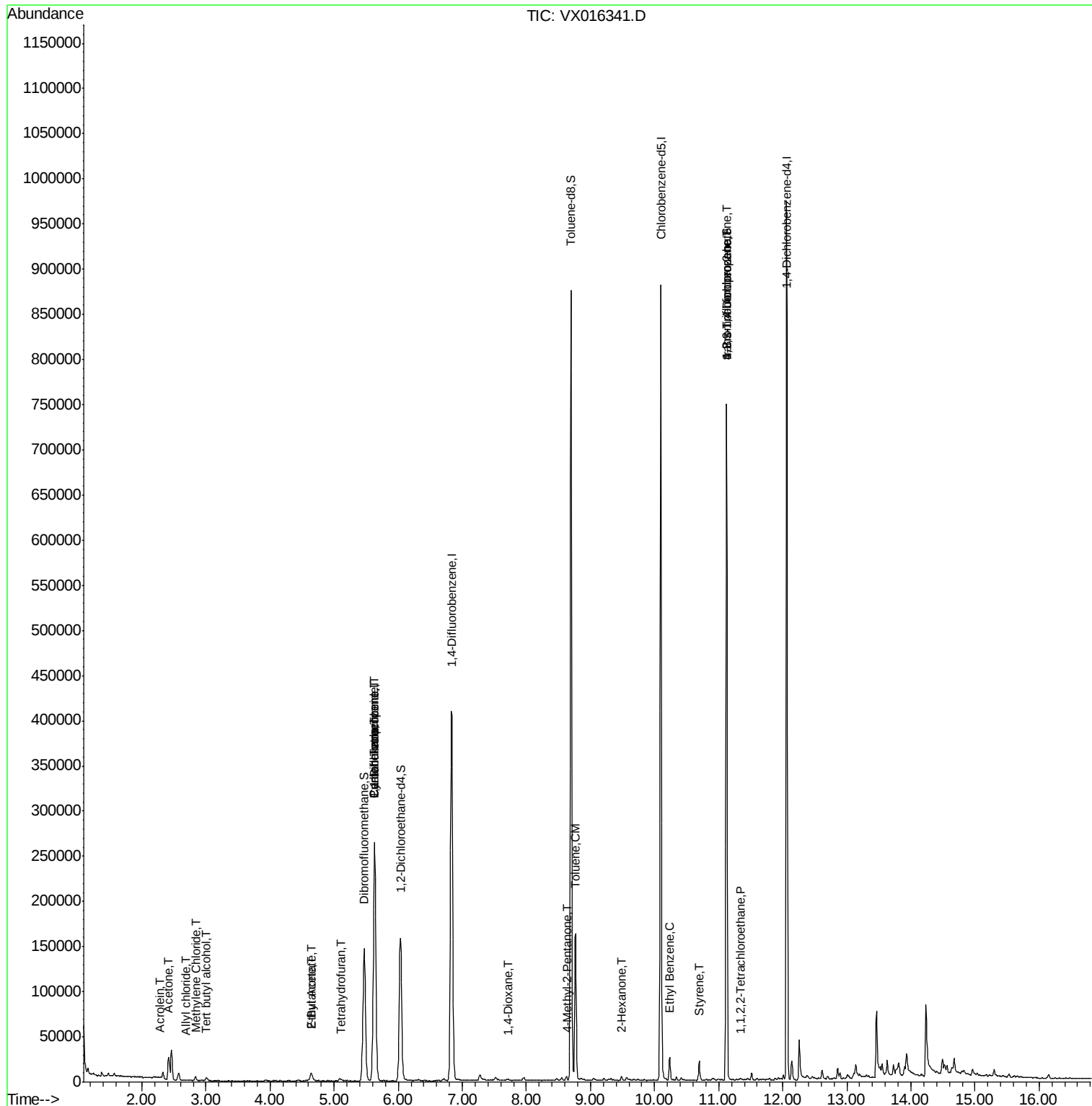
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	152476	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	
35) Dibromofluoromethane	5.47	113	128183	47.36	ug/l	0.00
Spiked Amount			Recovery	=	94.72%	
50) Toluene-d8	8.70	98	517309	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	11.12	95	200984	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.01	59	4290	5.023	ug/l	98
13) Acrolein	2.27	56	368	0.689	ug/l #	25
14) Allyl chloride	2.68	41	1050	0.215	ug/l #	27
16) Acetone	2.42	43	26190	17.378	ug/l	99
17) Carbon Disulfide	2.55	76	1555	Below Cal	#	83
20) Methylene Chloride	2.84	84	2278	0.733	ug/l #	78
25) 2-Butanone	4.64	43	12459	5.130	ug/l	99
29) Tetrahydrofuran	5.10	42	421	0.262	ug/l #	31
31) Cyclohexane	5.63	56	4437	0.946	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	18861	4.485	ug/l #	49
37) Ethyl Acetate	4.64	43	12459	2.556	ug/l #	67
38) Carbon Tetrachloride	5.64	117	24721	5.783	ug/l #	14
49) 1,4-Dioxane	7.71	88	24	0.272	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	2575	0.541	ug/l	100
52) Toluene	8.77	92	63050	8.220	ug/l	99
59) 2-Hexanone	9.48	43	1372	0.367	ug/l	82
67) Ethyl Benzene	10.24	91	14815	0.983	ug/l	96
70) Styrene	10.70	104	8707	0.946	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.34	83	80	2.078	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	96315	21.133	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	96315	50.361	ug/l #	13

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

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QLast Update : Wed May 06 06:43:32 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: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

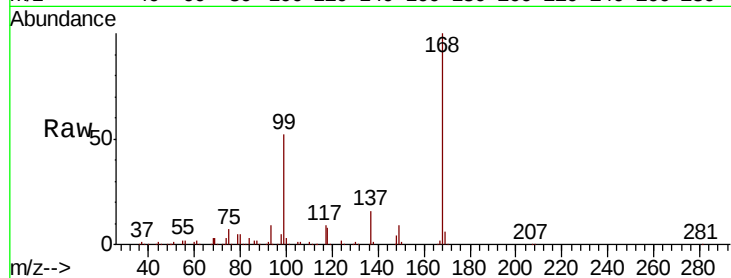
1381

Tot Ion:168 Resp: 256684

Ion Ratio Lower Upper

168 100

99 52.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

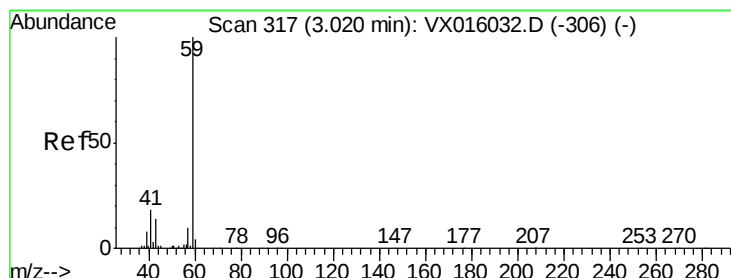
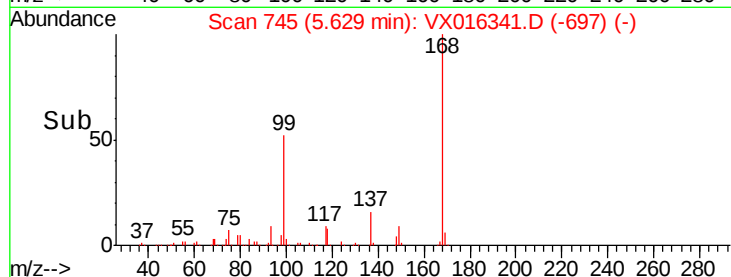
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 5.023 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX016341.D

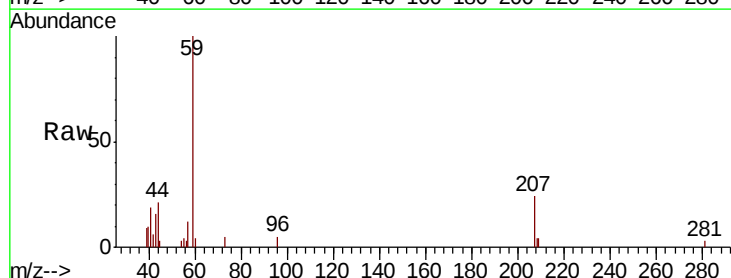
Acq: 19 May 2020 17:41

Tgt Ion: 59 Resp: 4290

Ion Ratio Lower Upper

59 100

57 9.5 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.01

2000

1500

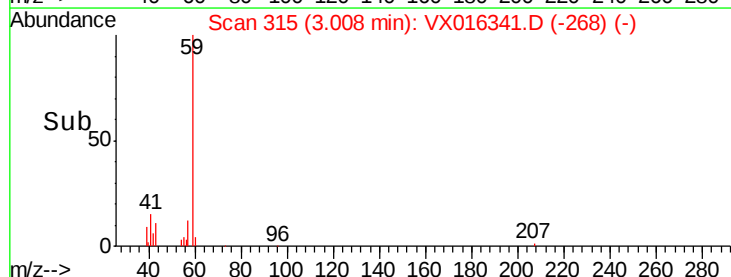
1000

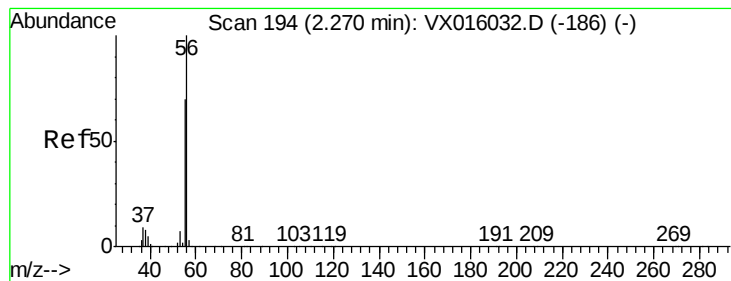
500

0

Time-->

2.95 3.00 3.05 3.10





#13

Acrolein

Concen: 0.689 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

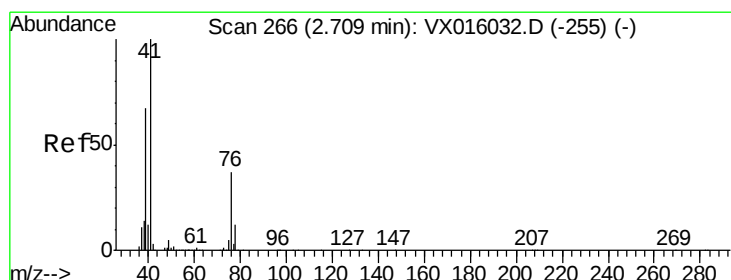
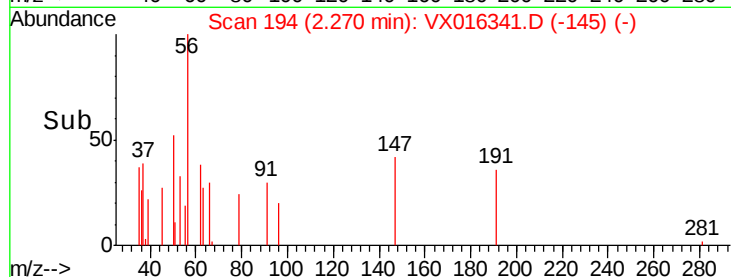
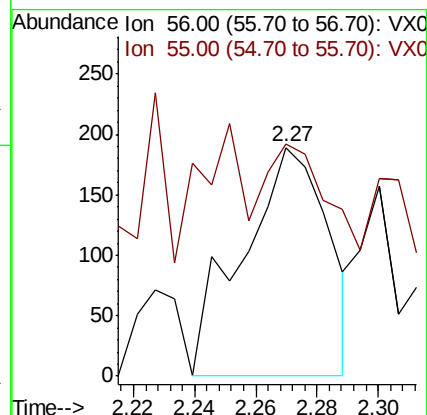
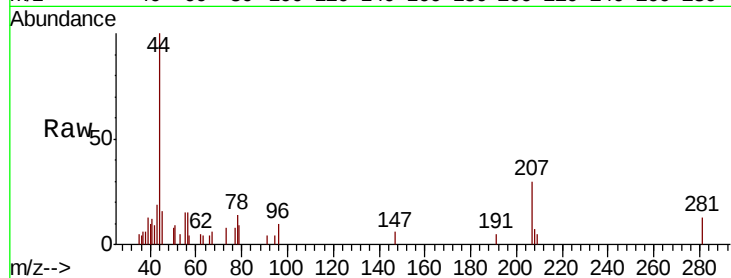
1381

Tot Ion: 56 Resp: 368

Ion Ratio Lower Upper

56 100

55 8.7 56.5 84.7#



#14

Allyl chloride

Concen: 0.215 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

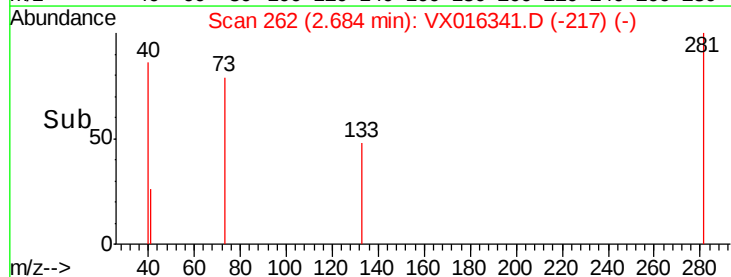
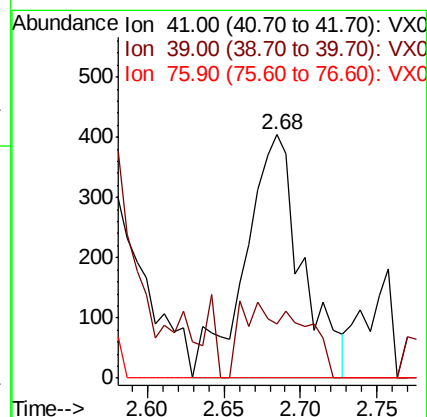
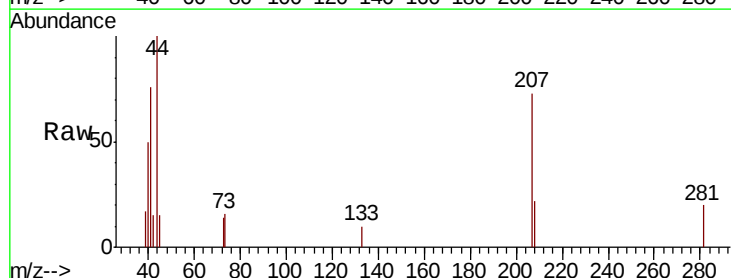
Tgt Ion: 41 Resp: 1050

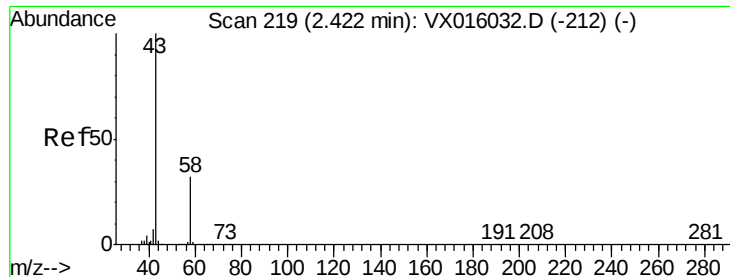
Ion Ratio Lower Upper

41 100

39 0.0 50.5 75.7#

76 0.0 26.6 40.0#





#16

Acetone

Concen: 17.378 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

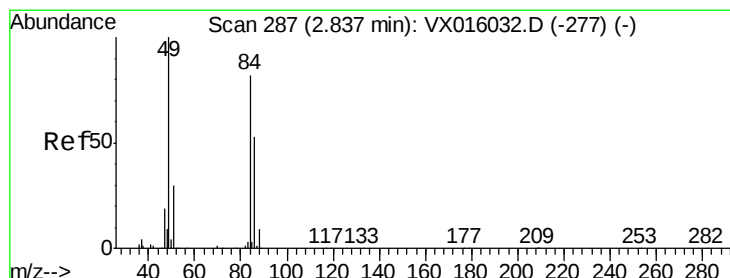
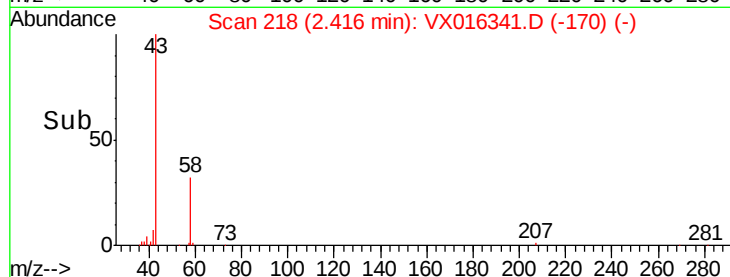
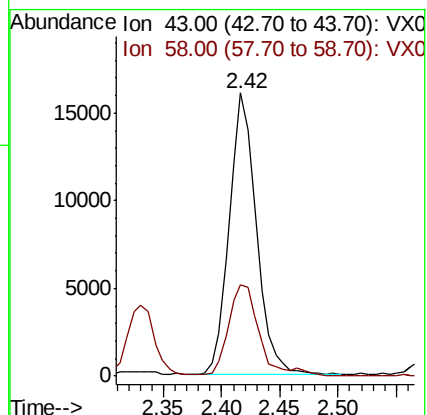
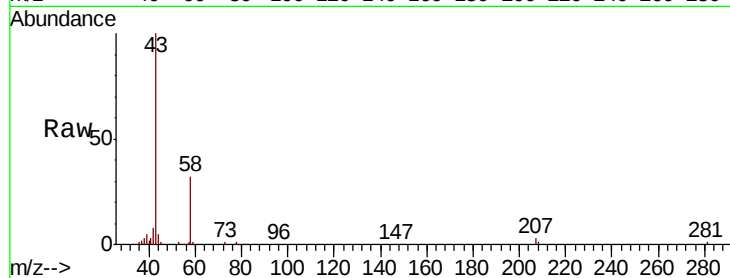
1381

Tot Ion: 43 Resp: 26190

Ion Ratio Lower Upper

43 100

58 32.3 25.4 38.0



#20

Methylene Chloride

Concen: 0.733 ug/l

RT: 2.84 min Scan# 287

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Tgt Ion: 84 Resp: 2278

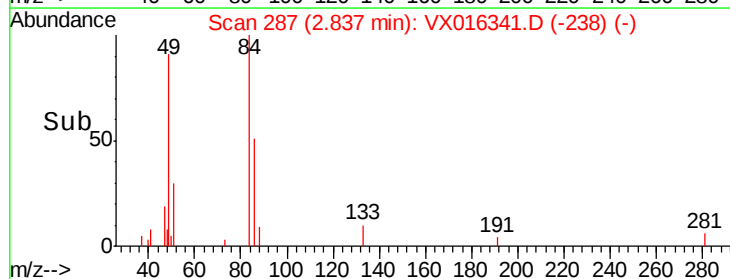
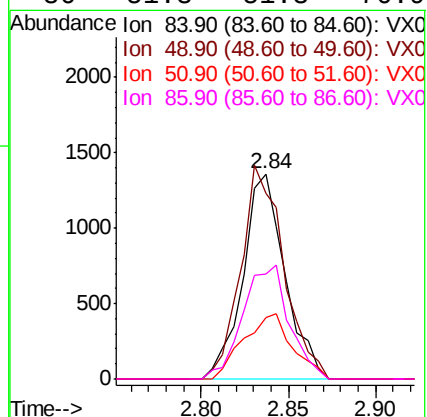
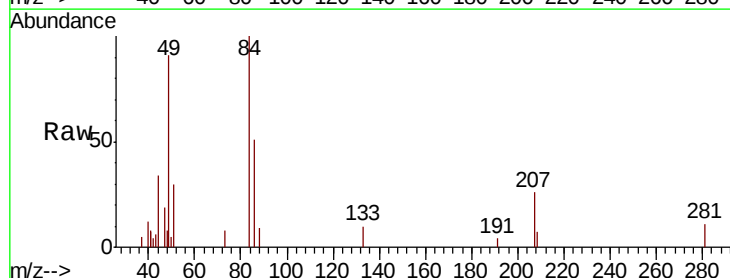
Ion Ratio Lower Upper

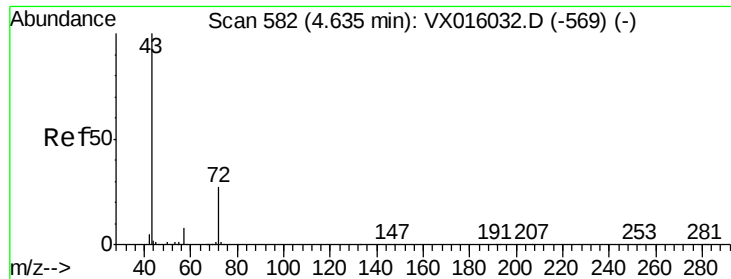
84 100

49 90.8 97.3 145.9#

51 30.2 29.3 43.9

86 51.3 51.3 76.9





#25

2-Butanone

Concen: 5.130 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

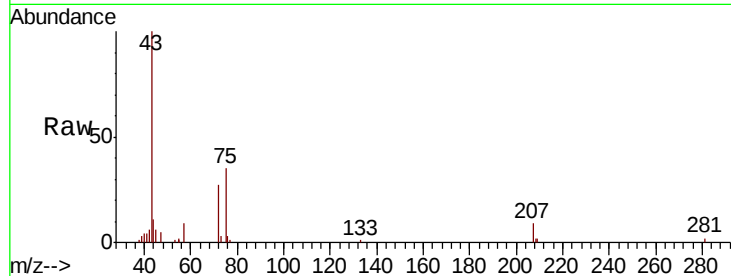
1381

Tot Ion: 43 Resp: 12459

Ion Ratio Lower Upper

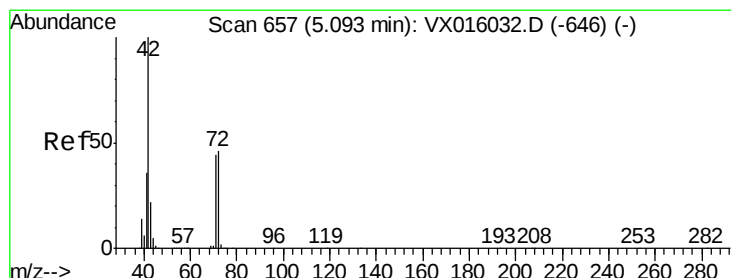
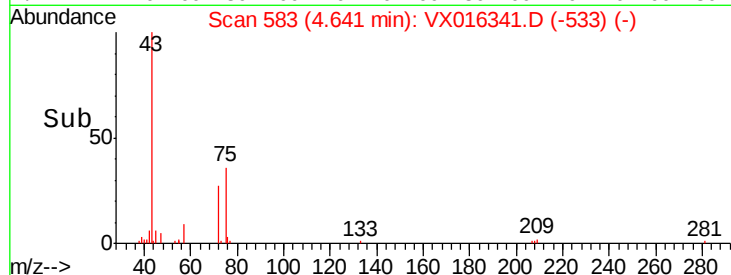
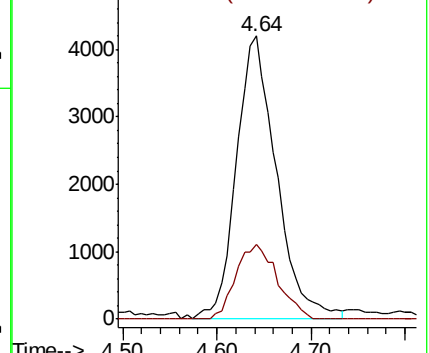
43 100

72 26.5 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.262 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

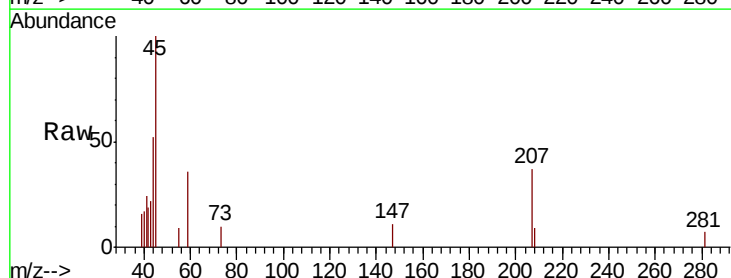
Tgt Ion: 42 Resp: 421

Ion Ratio Lower Upper

42 100

72 0.0 37.1 55.7#

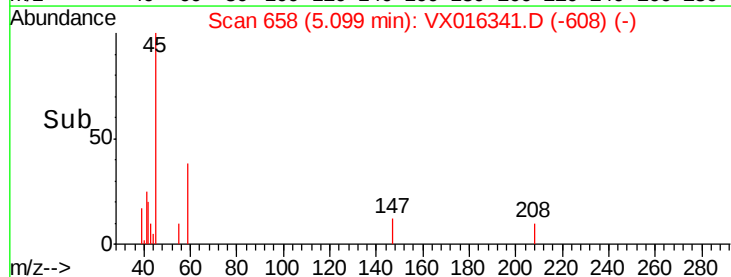
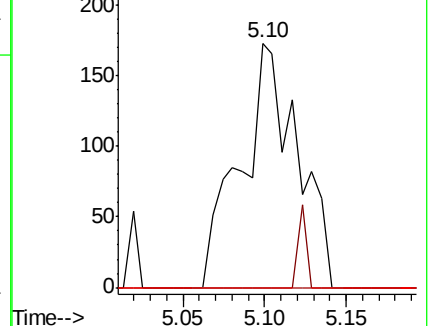
71 0.0 34.5 51.7#

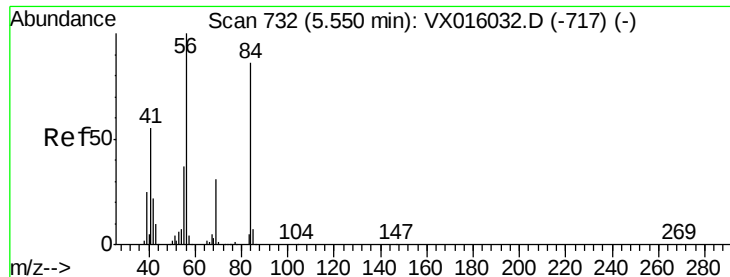


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

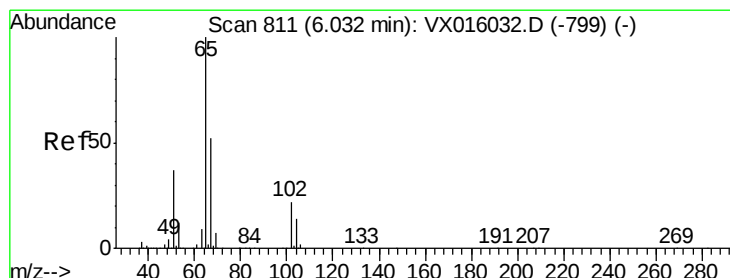
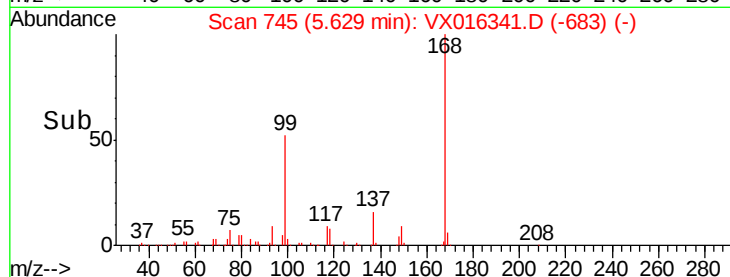
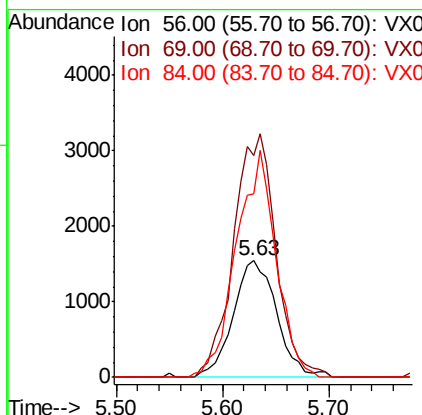
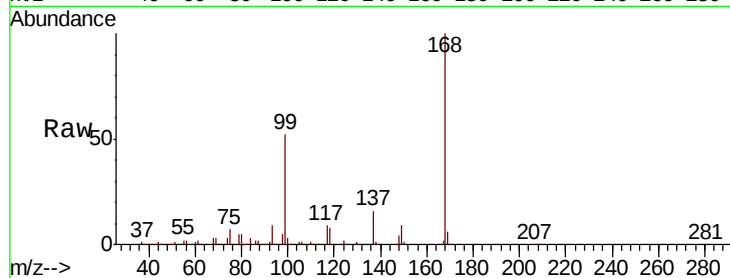




#31
Cyclohexane
Concen: 0.946 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016341.D
Acq: 19 May 2020 17:41

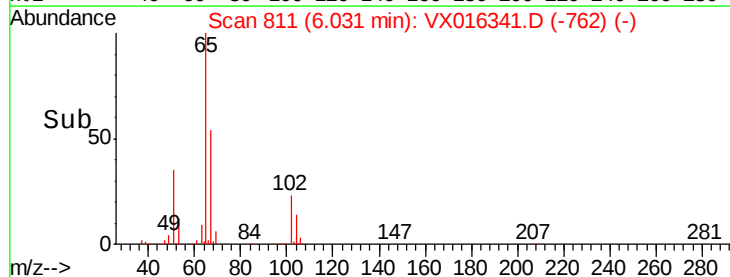
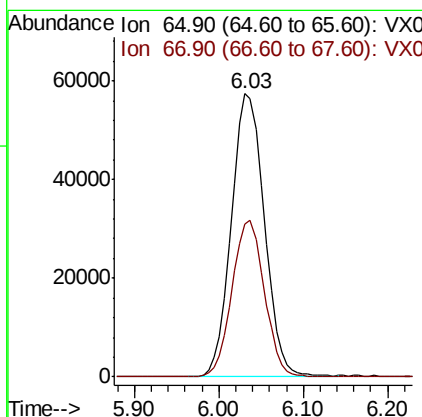
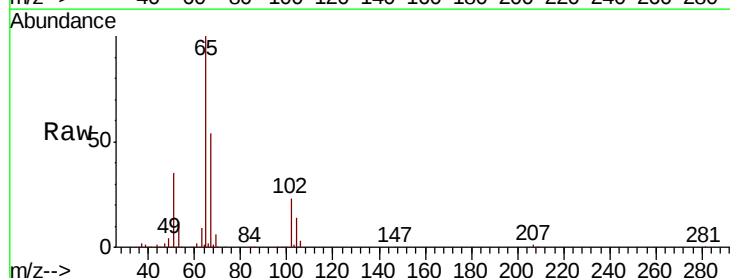
Instrument :
MSVOA_X
ClientSampleId :
1381

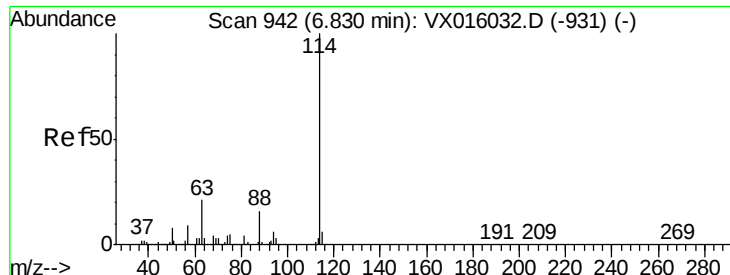
Tot Ion: 56 Resp: 4437
Ion Ratio Lower Upper
56 100
69 191.4 25.0 37.6#
84 157.4 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 45.142 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016341.D
Acq: 19 May 2020 17:41

Tgt Ion: 65 Resp: 152476
Ion Ratio Lower Upper
65 100
67 54.1 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

1381

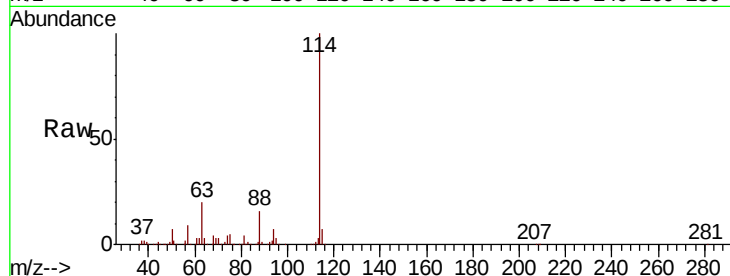
Tot Ion:114 Resp: 427227

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

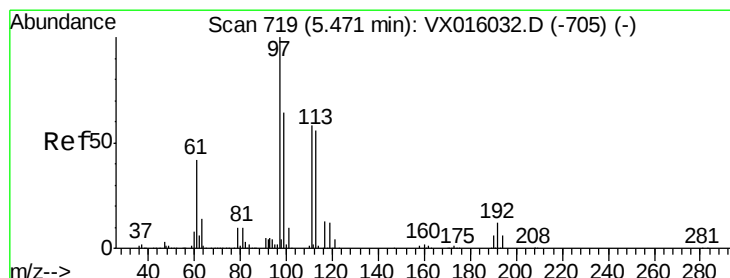
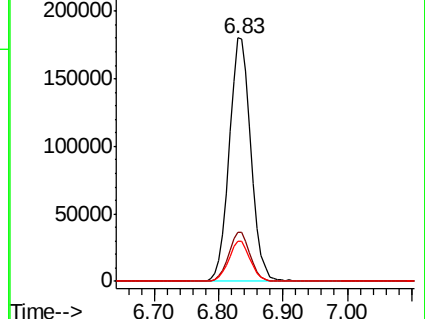
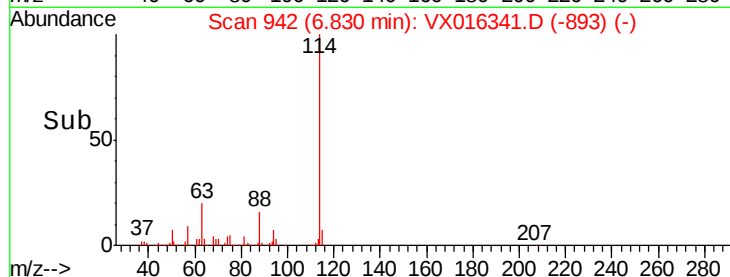
88 16.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.358 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

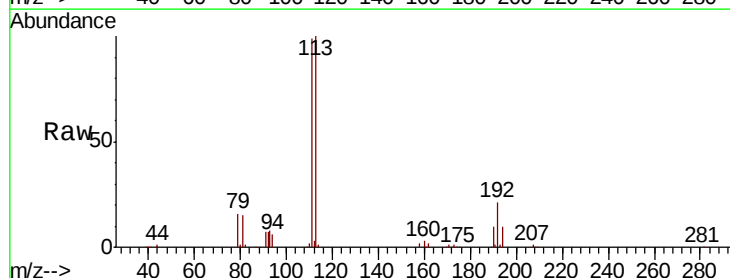
Tgt Ion:113 Resp: 128183

Ion Ratio Lower Upper

113 100

111 102.6 81.6 122.4

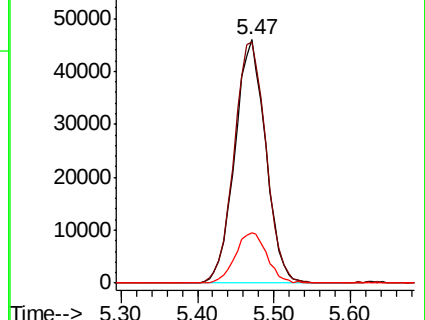
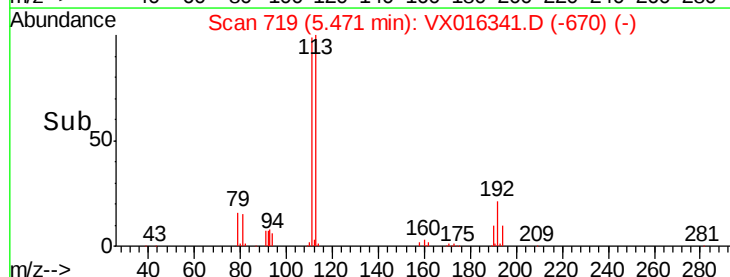
192 21.4 17.0 25.4

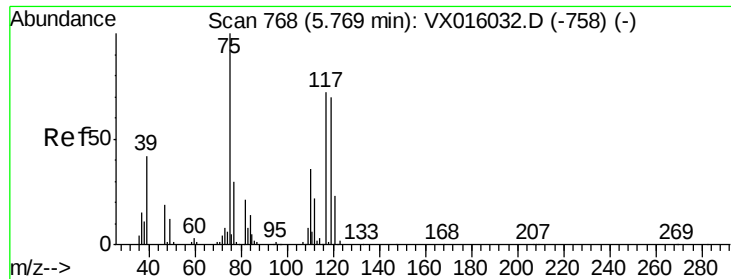


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.485 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

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1381

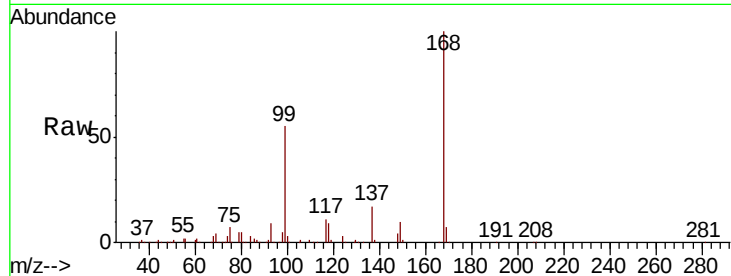
Tot Ion: 75 Resp: 18861

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.1#

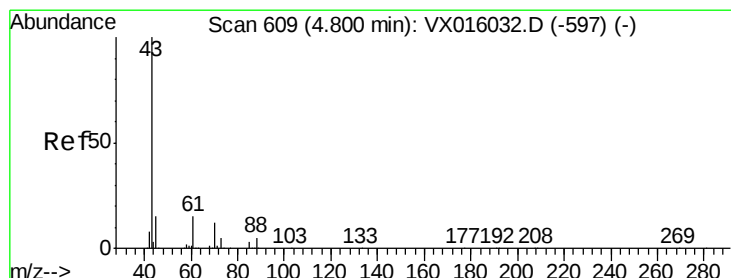
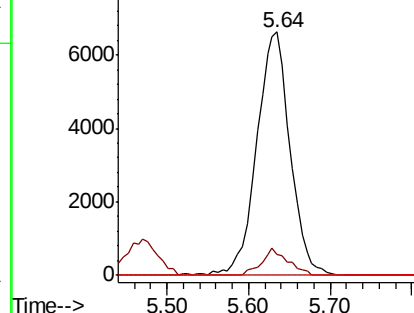
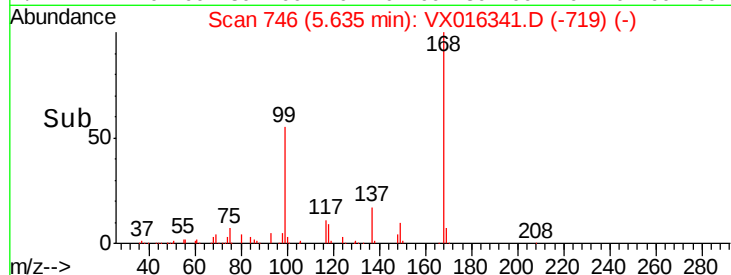
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 2.556 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

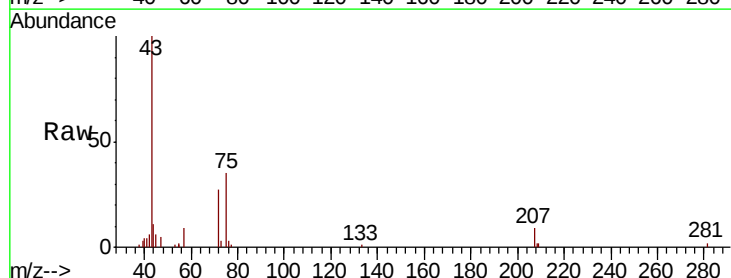
Tgt Ion: 43 Resp: 12459

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

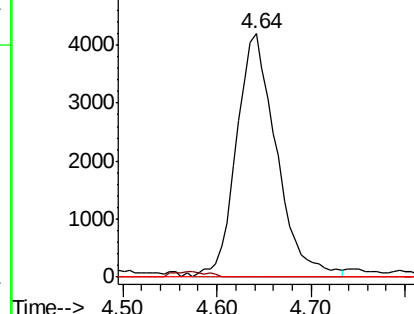
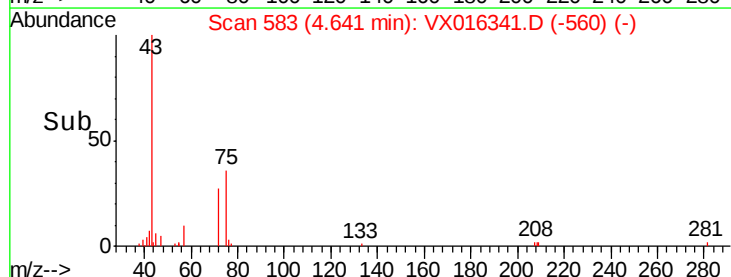
70 0.0 9.3 13.9#

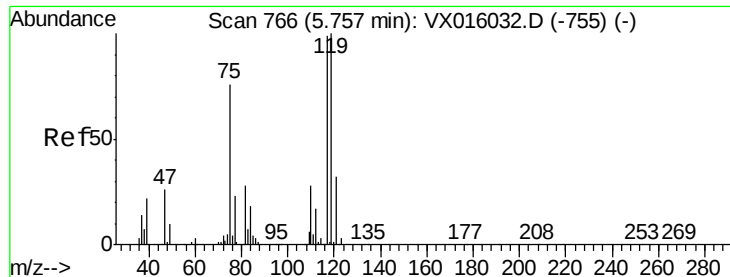


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.783 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

1381

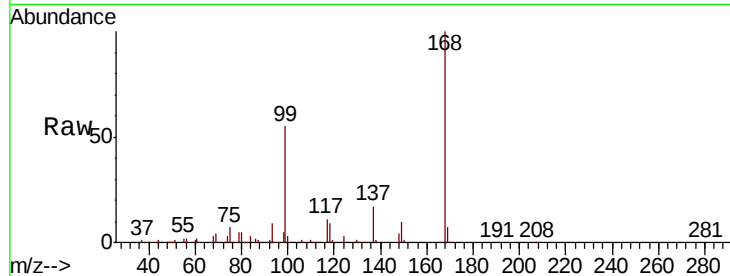
Tot Ion:117 Resp: 24721

Ion Ratio Lower Upper

117 100

119 5.3 80.3 120.5#

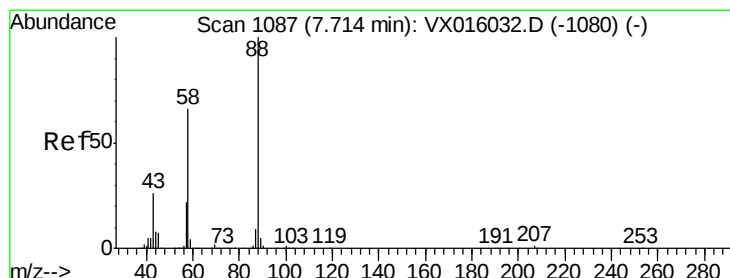
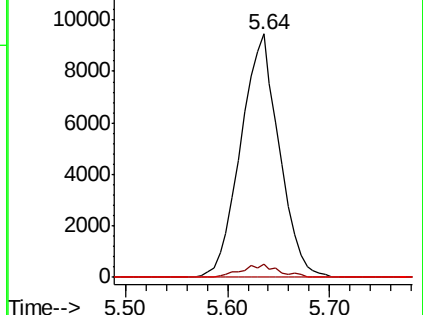
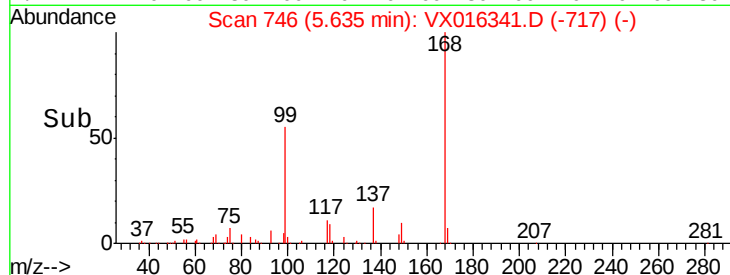
121 0.0 25.7 38.5#



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



#49

1,4-Dioxane

Concen: 0.272 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

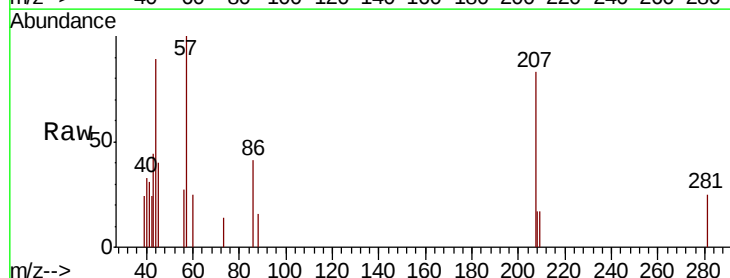
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 1062.5 25.3 37.9#

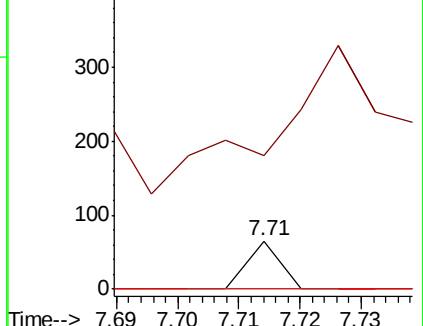
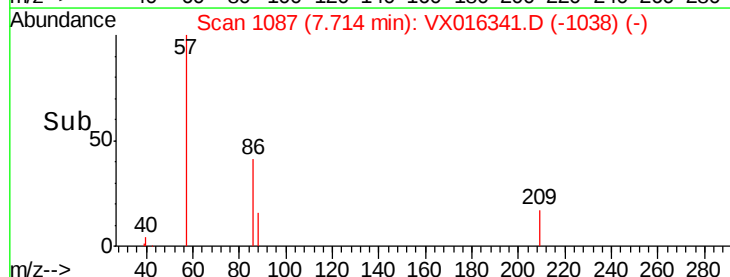
58 0.0 55.9 83.9#

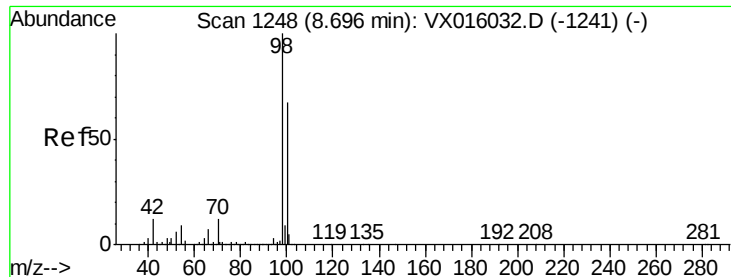


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.603 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampled :

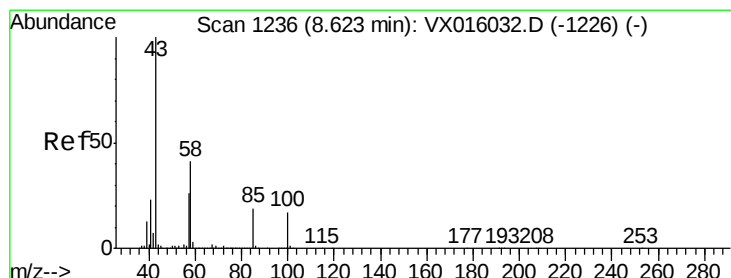
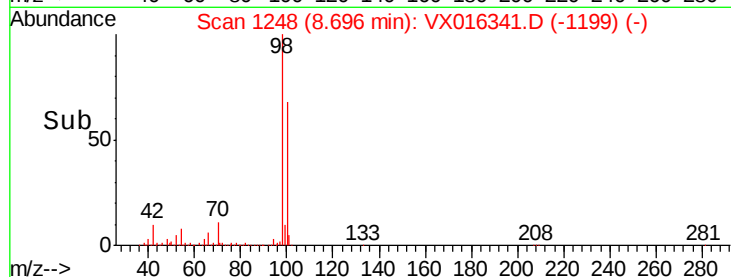
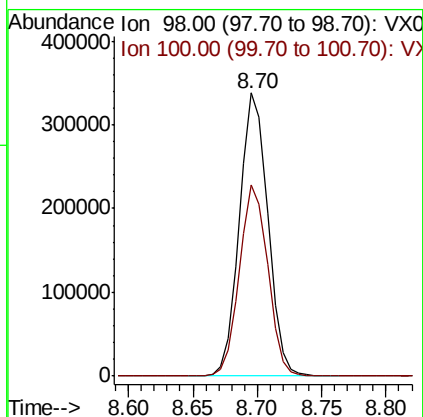
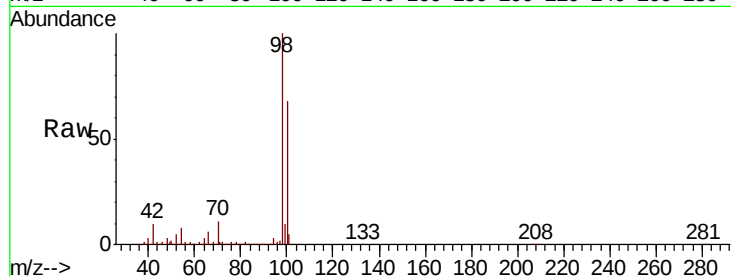
1381

Tot Ion: 98 Resp: 517309

Ion Ratio Lower Upper

98 100

100 67.7 53.7 80.5



#51

4-Methyl-2-Pentanone

Concen: 0.541 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX016341.D

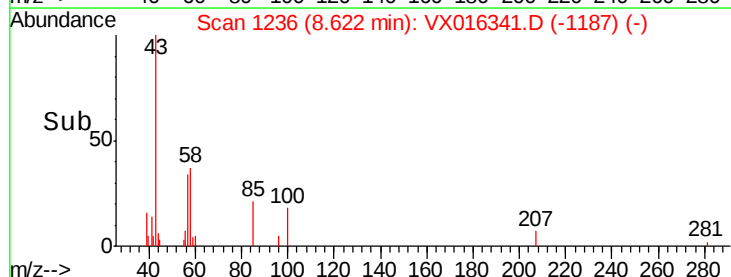
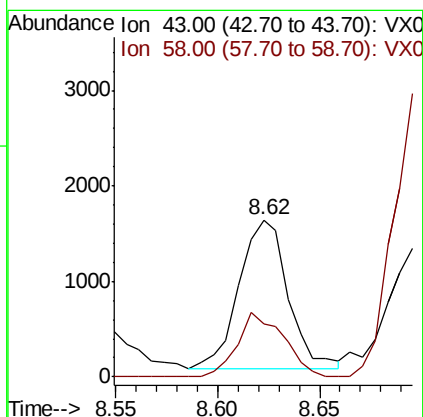
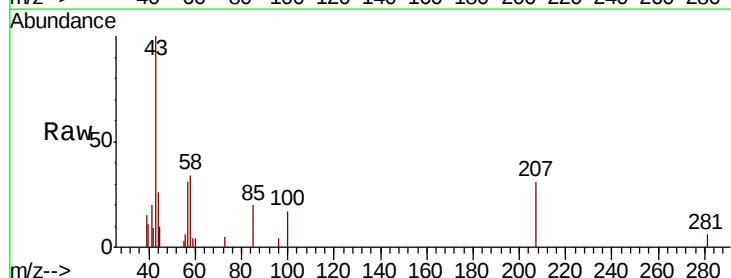
Acq: 19 May 2020 17:41

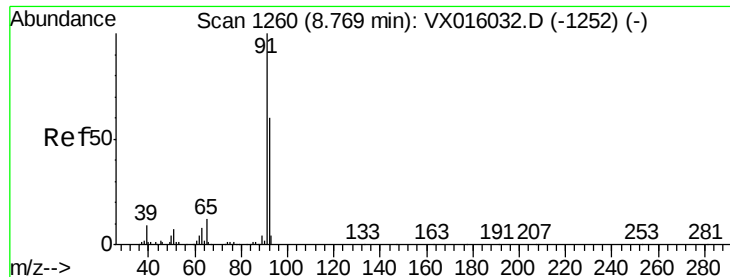
Tgt Ion: 43 Resp: 2575

Ion Ratio Lower Upper

43 100

58 41.3 33.0 49.4





#52

Toluene

Concen: 8.220 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

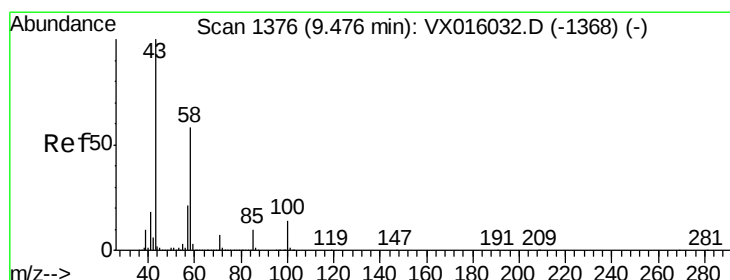
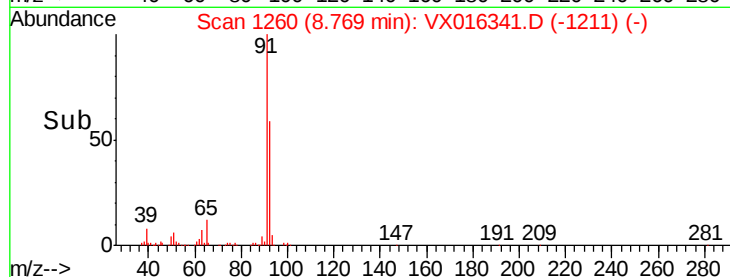
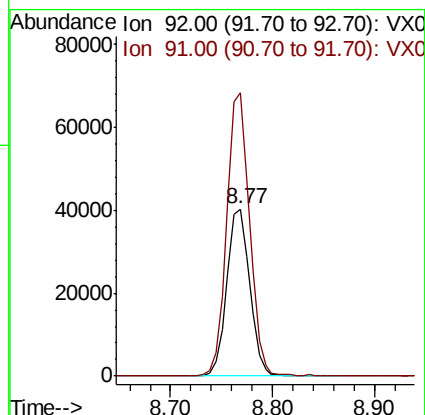
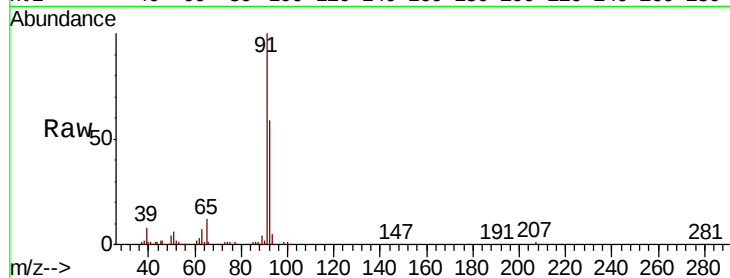
1381

Tot Ion: 92 Resp: 63050

Ion Ratio Lower Upper

92 100

91 167.3 134.5 201.7



#59

2-Hexanone

Concen: 0.367 ug/l

RT: 9.48 min Scan# 1377

Delta R.T. 0.01 min

Lab File: VX016341.D

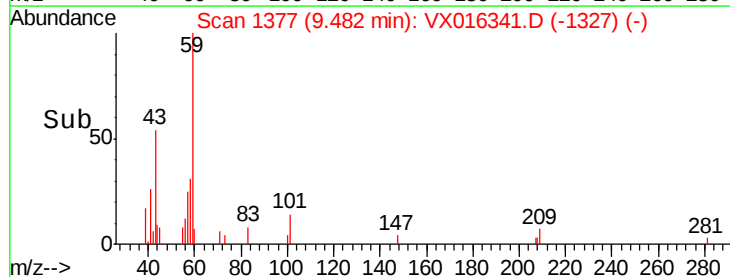
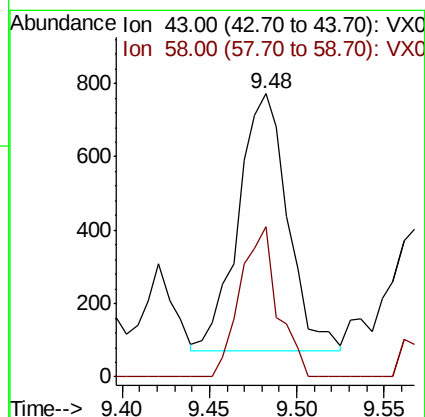
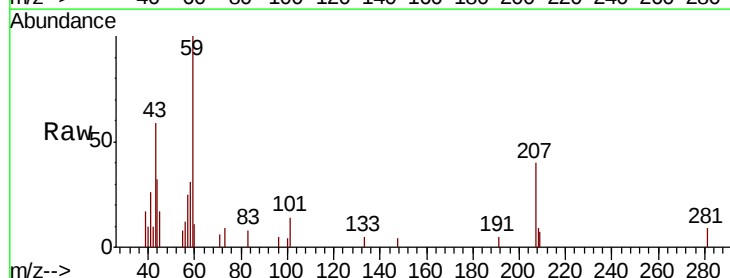
Acq: 19 May 2020 17:41

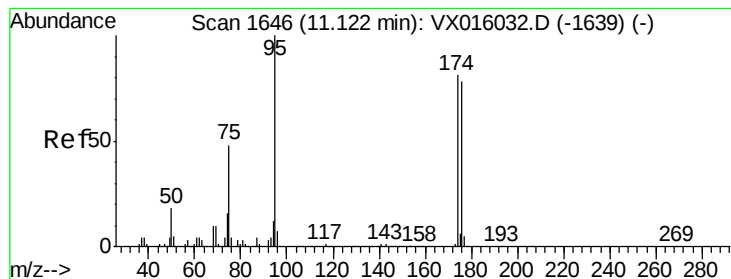
Tgt Ion: 43 Resp: 1372

Ion Ratio Lower Upper

43 100

58 44.3 28.6 85.9





#62

4-Bromofluorobenzene

Concen: 50.668 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampled :

1381

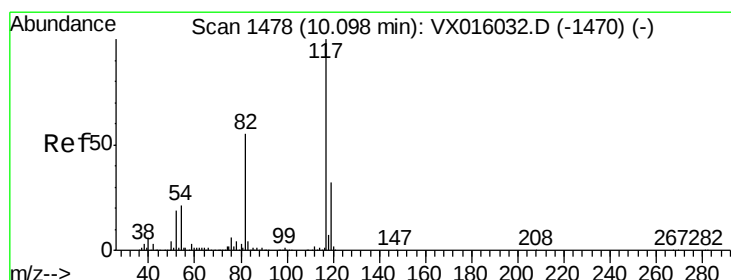
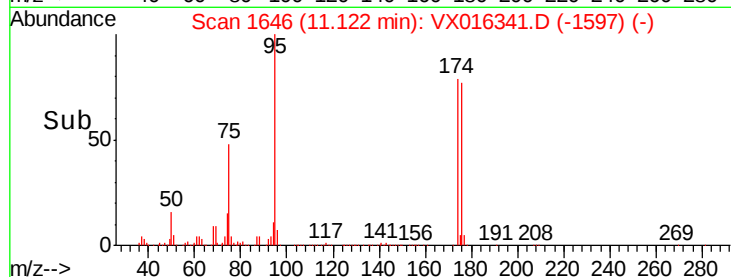
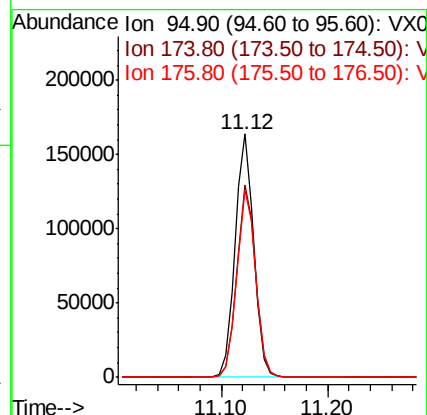
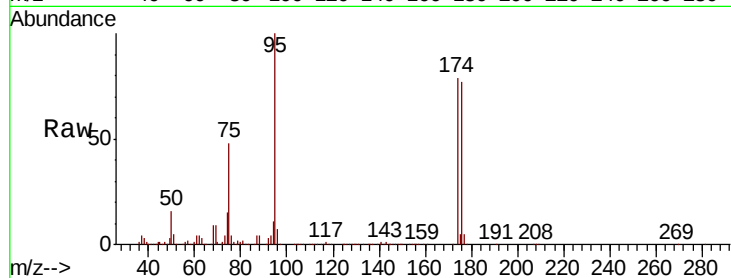
Tot Ion: 95 Resp: 200984

Ion Ratio Lower Upper

95 100

174 79.4 0.0 159.4

176 78.0 0.0 157.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

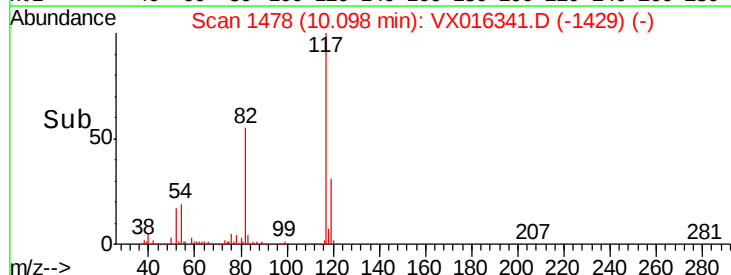
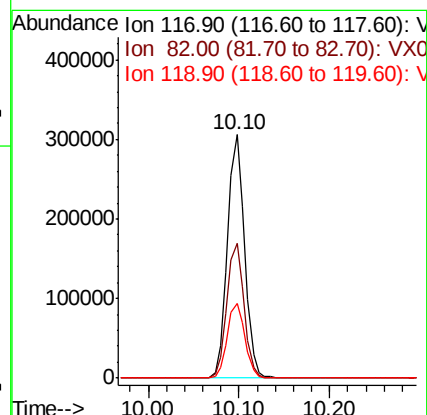
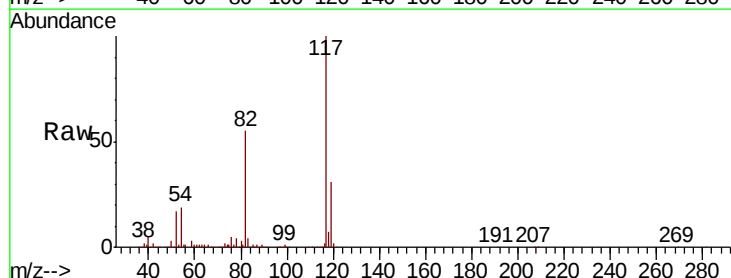
Tgt Ion: 117 Resp: 403237

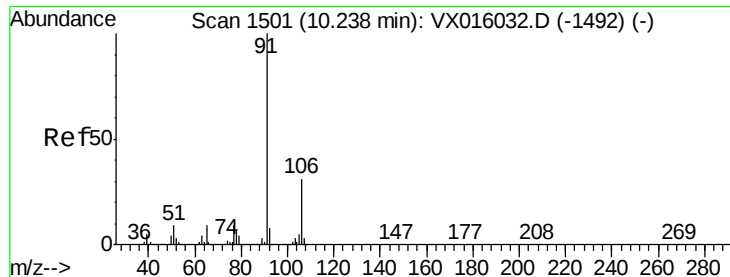
Ion Ratio Lower Upper

117 100

82 55.5 44.4 66.6

119 30.6 25.5 38.3

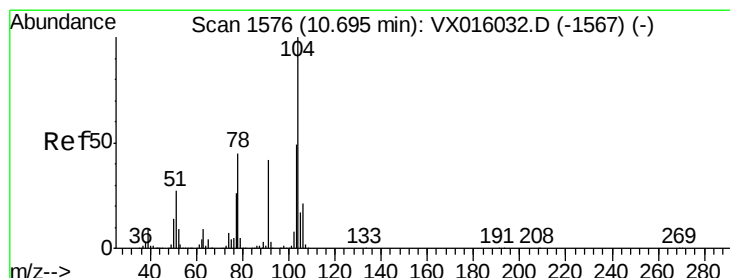
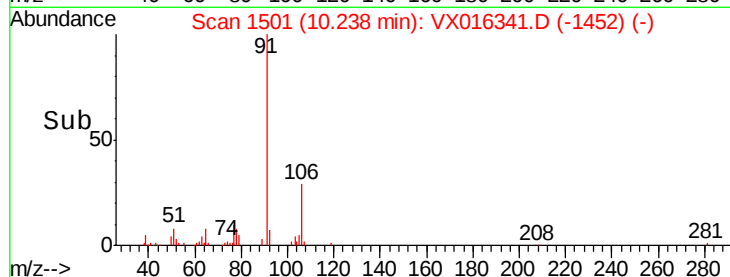
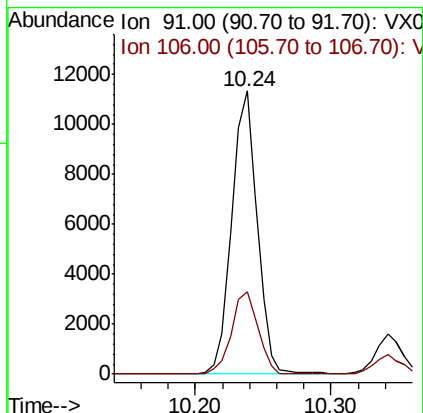
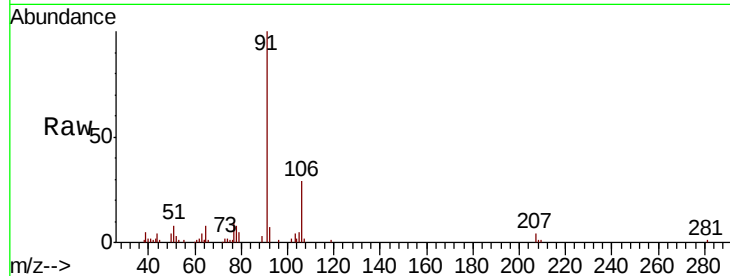




#67
Ethyl Benzene
Concen: 0.983 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. -0.00 min
Lab File: VX016341.D
Acq: 19 May 2020 17:41

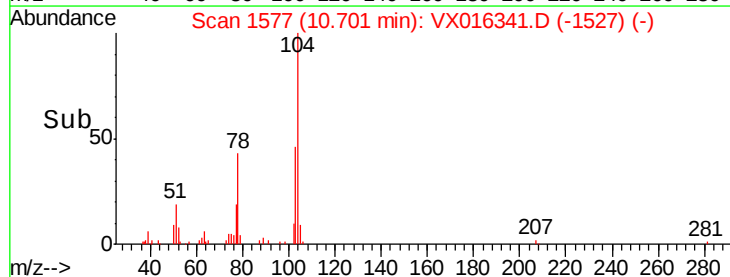
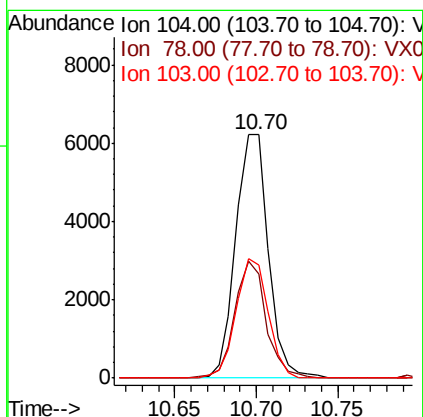
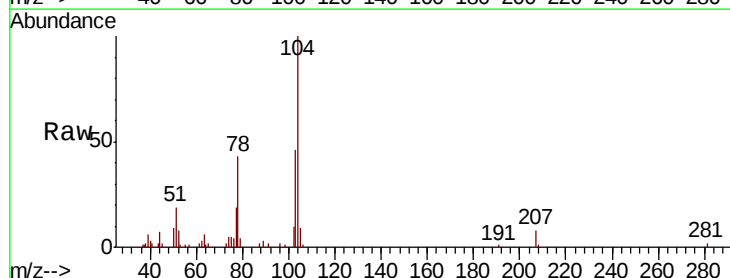
Instrument :
MSVOA_X
ClientSampleId :
1381

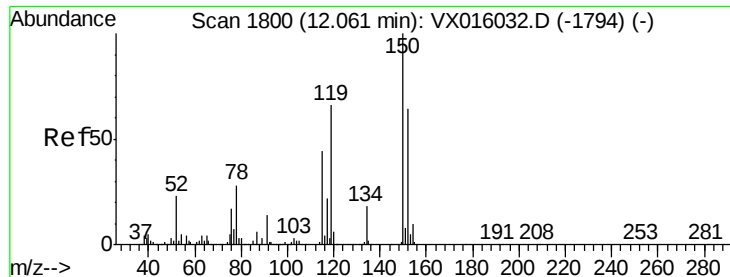
Tot Ion: 91 Resp: 14815
Ion Ratio Lower Upper
91 100
106 29.1 25.1 37.7



#70
Styrene
Concen: 0.946 ug/l
RT: 10.70 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VX016341.D
Acq: 19 May 2020 17:41

Tgt Ion: 104 Resp: 8707
Ion Ratio Lower Upper
104 100
78 46.2 40.2 60.2
103 48.1 43.0 64.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampleId :

1381

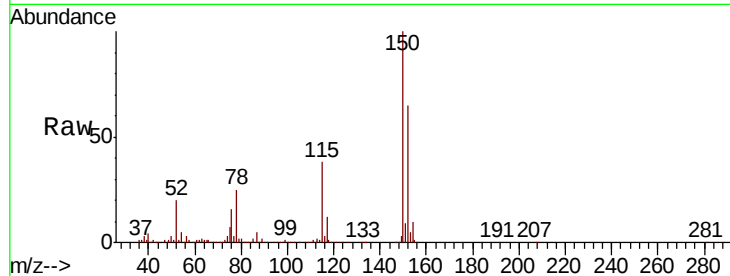
Tot Ion:152 Resp: 200844

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

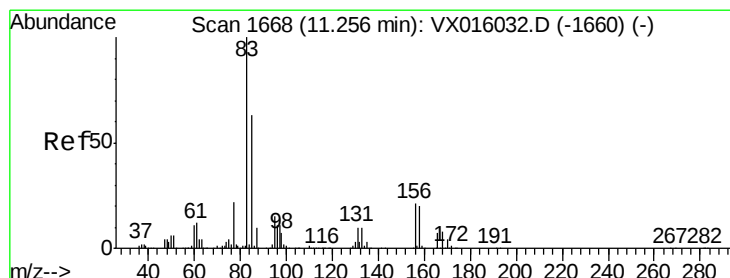
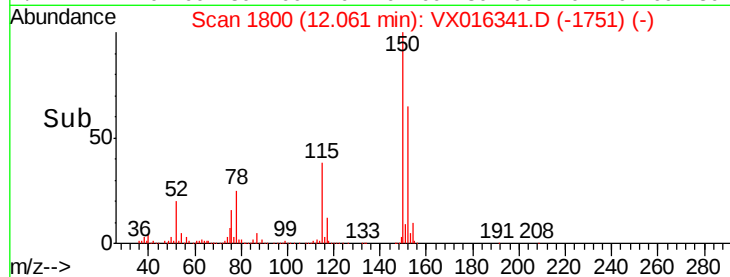
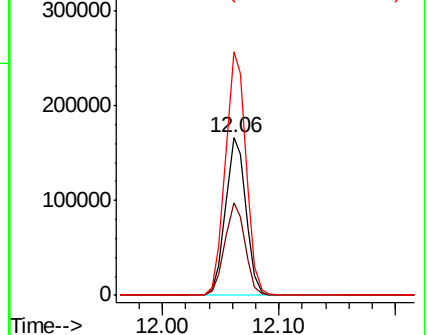
150 155.8 0.0 352.2



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: 2.078 ug/l

RT: 11.34 min Scan# 1681

Delta R.T. 0.08 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

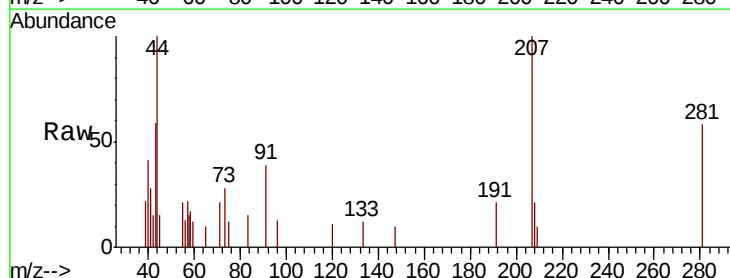
Tgt Ion: 83 Resp: 80

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

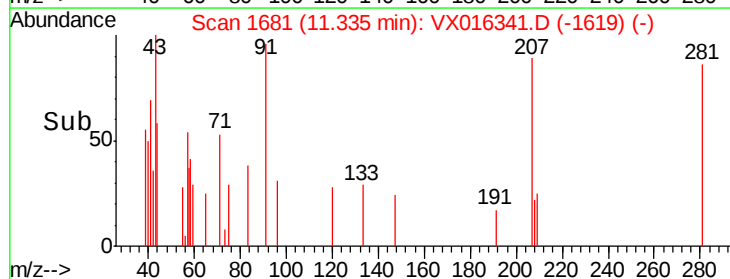
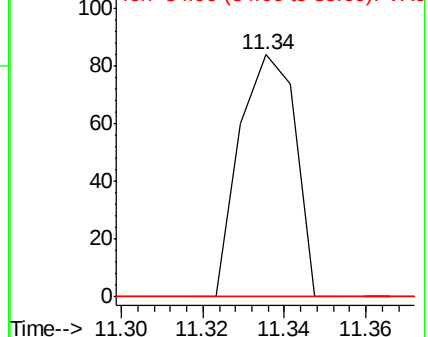
85 0.0 32.0 96.0#

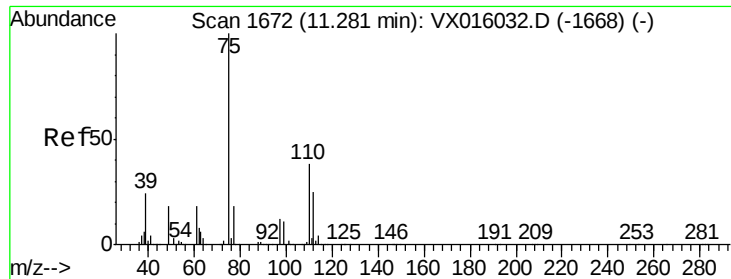


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 21.133 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

Instrument :

MSVOA_X

ClientSampled :

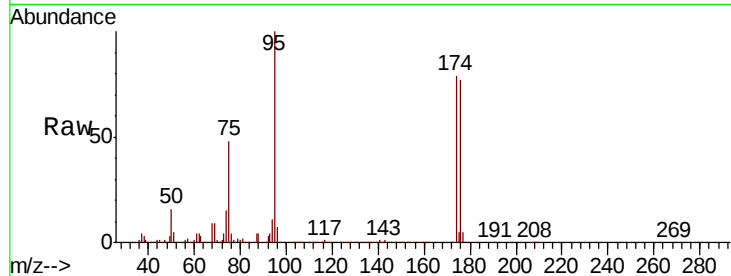
1381

Tot Ion: 75 Resp: 96315

Ion Ratio Lower Upper

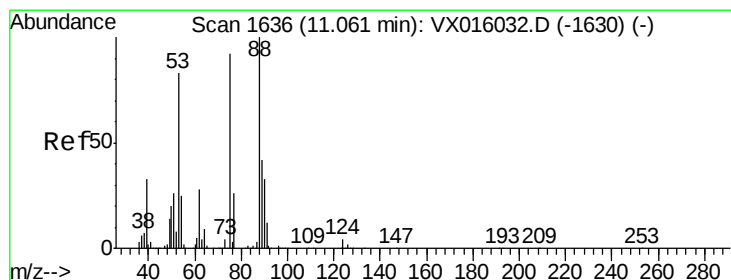
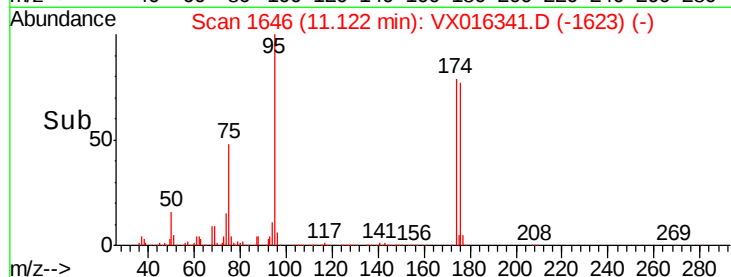
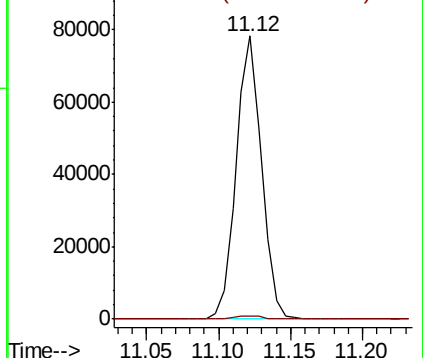
75 100

77 1.3 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 50.361 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016341.D

Acq: 19 May 2020 17:41

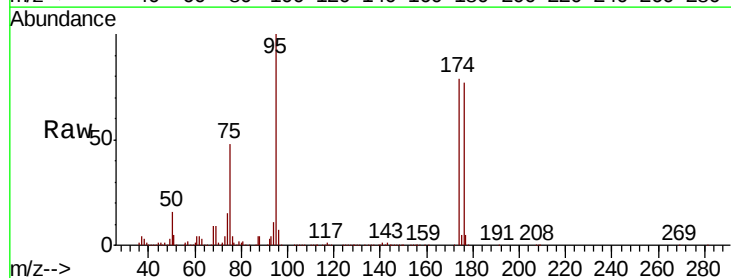
Tgt Ion: 75 Resp: 96315

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

