

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050120\
 Data File : VX016017.D
 Acq On : 01 May 2020 17:25
 Operator : JC/SP
 Sample : L2469-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ1871-20200429

Quant Time: May 02 07:01:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 28 17:30:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	276106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	451083	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	436267	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	225823	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	176397	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	5.47	113	132822	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
50) Toluene-d8	8.70	98	550458	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
62) 4-Bromofluorobenzene	11.12	95	223334	54.12	ug/l	0.00
Spiked Amount			Recovery	=	108.24%	

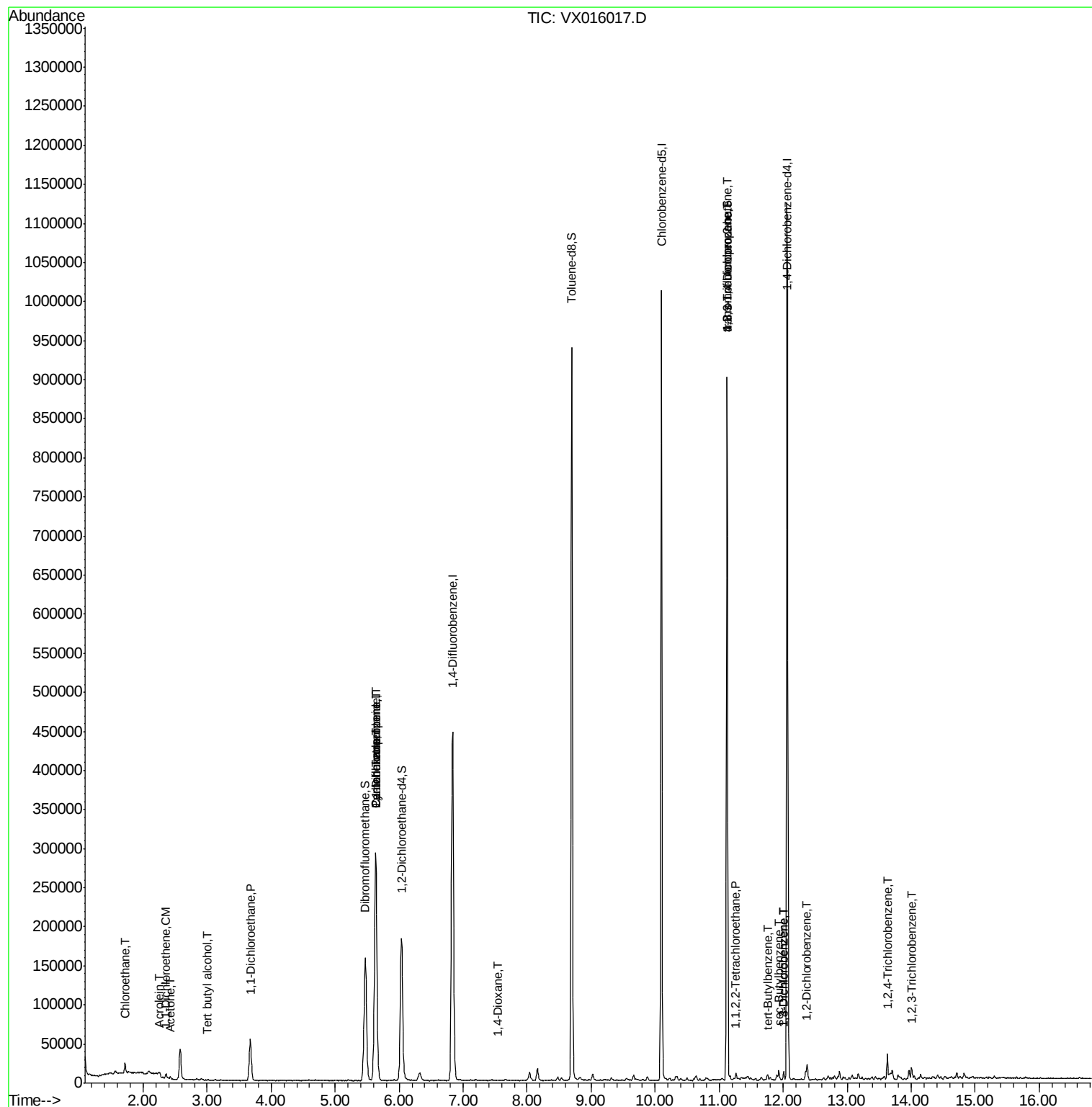
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	7301	3.228	ug/l	98
11) Tert butyl alcohol	3.01	59	1050	1.198	ug/l #	75
12) 1,1-Dichloroethene	2.36	96	2109	0.798	ug/l	98
13) Acrolein	2.26	56	422	1.916	ug/l #	14
16) Acetone	2.42	43	2415	1.564	ug/l	97
24) 1,1-Dichloroethane	3.67	63	59328	11.372	ug/l	97
31) Cyclohexane	5.64	56	6039	1.300	ug/l #	2
36) 1,1-Dichloropropene	5.63	75	21545	5.015	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27298	6.016	ug/l #	17
49) 1,4-Dioxane	7.54	88	25	0.282	ug/l #	24
75) 1,1,2,2-Tetrachloroethane	11.26	83	487	3.827	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	116553	24.597	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	116553	58.126	ug/l #	10
83) tert-Butylbenzene	11.76	119	2387	0.214	ug/l	91
85) sec-Butylbenzene	11.93	105	5653	0.376	ug/l	84
87) 1,3-Dichlorobenzene	12.01	146	3194	0.443	ug/l	95
88) 1,4-Dichlorobenzene	12.01	146	3194	0.438	ug/l	96
91) 1,2-Dichlorobenzene	12.38	146	4734	0.687	ug/l	99
93) 1,2,4-Trichlorobenzene	13.63	180	7031	1.358	ug/l	92
96) 1,2,3-Trichlorobenzene	14.01	180	2792	0.560	ug/l #	73

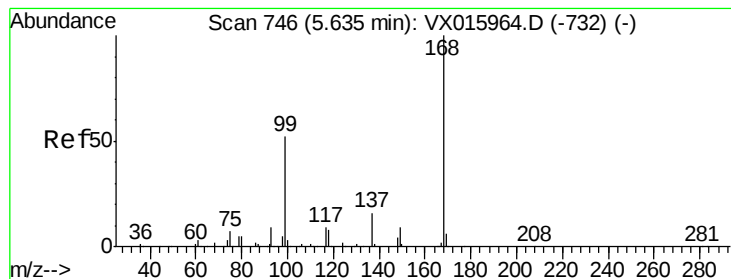
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042820W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 28 17:30:11 2020
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: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

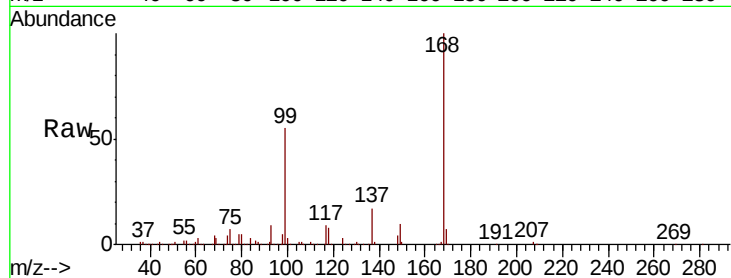
SA-PZ187I-20200429

Tot Ion:168 Resp: 276106

Ion Ratio Lower Upper

168 100

99 54.8 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

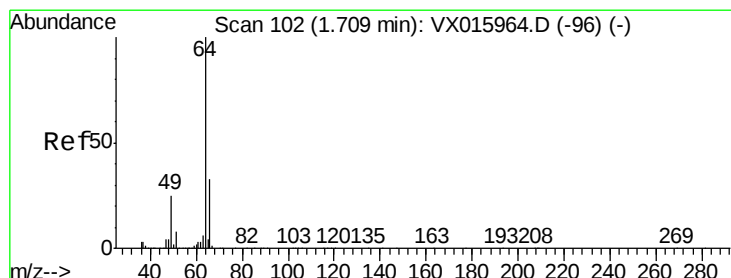
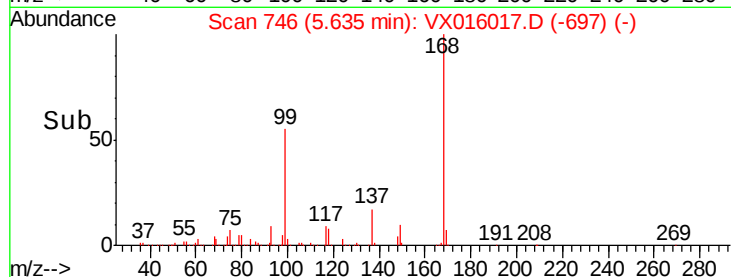
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 3.228 ug/l

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX016017.D

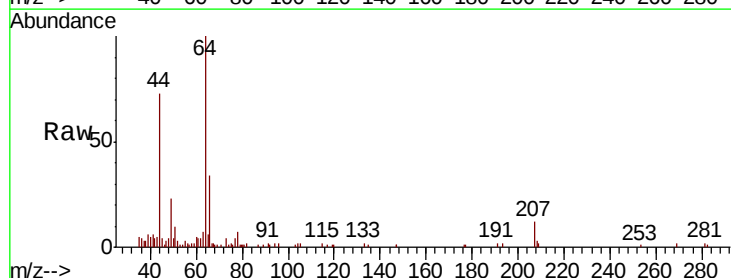
Acq: 01 May 2020 17:25

Tgt Ion: 64 Resp: 7301

Ion Ratio Lower Upper

64 100

66 33.8 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

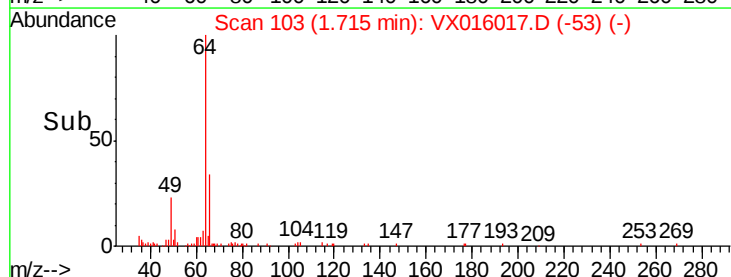
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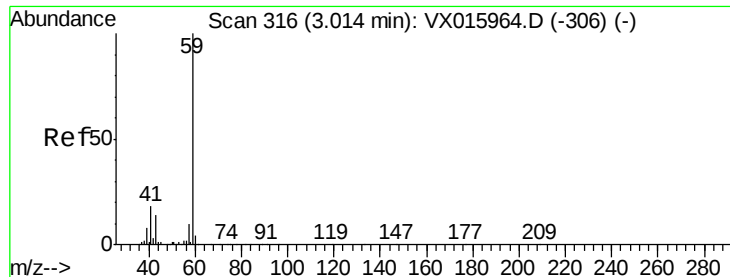
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2000

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Time-->



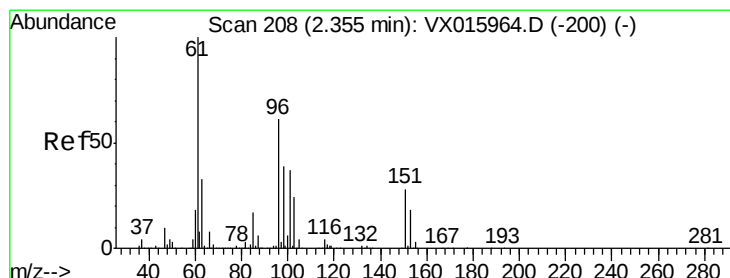
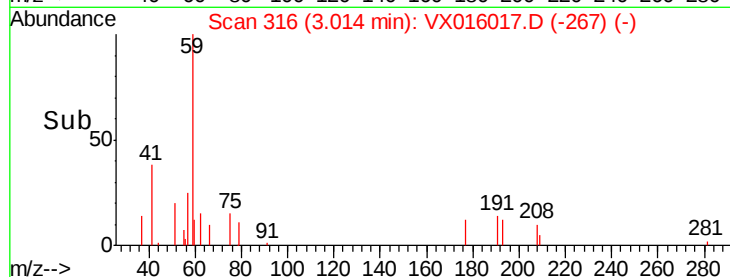
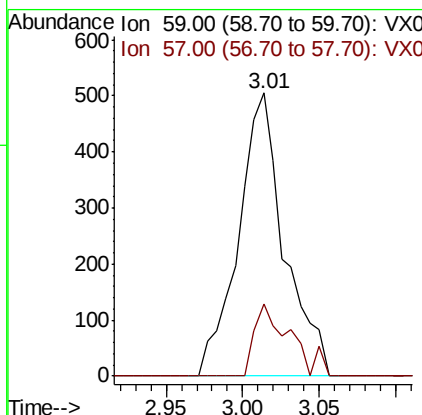
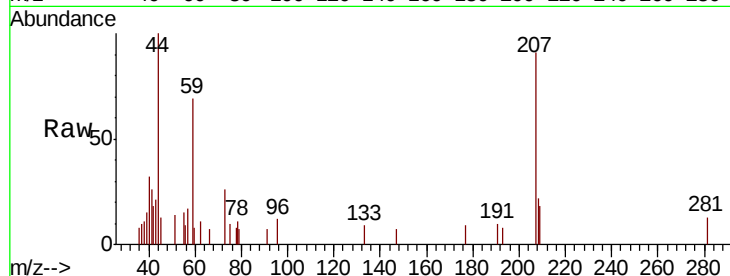


#11

Tert butyl alcohol
Concen: 1.198 ug/l
RT: 3.01 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX016017.D
Acq: 01 May 2020 17:25

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ187I-20200429

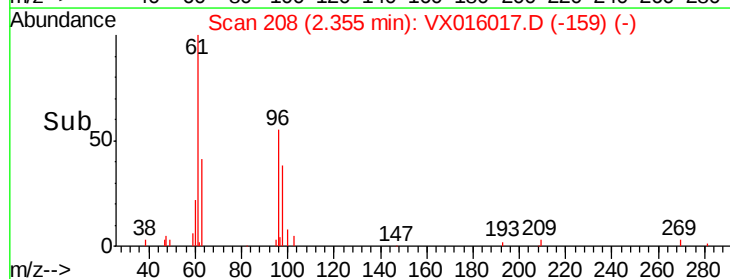
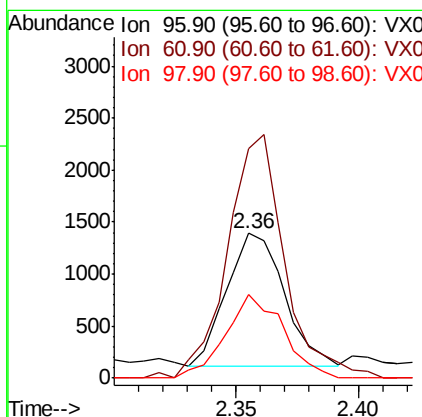
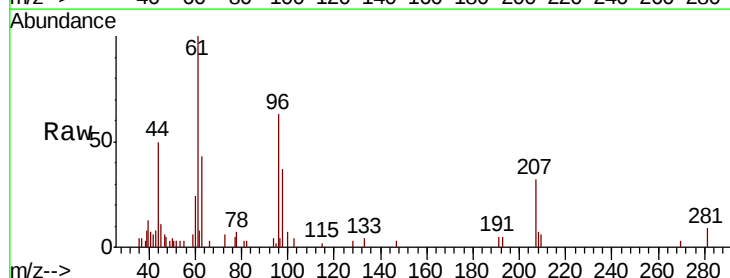
Tot Ion: 59 Resp: 1050
Ion Ratio Lower Upper
59 100
57 19.7 8.3 12.5#

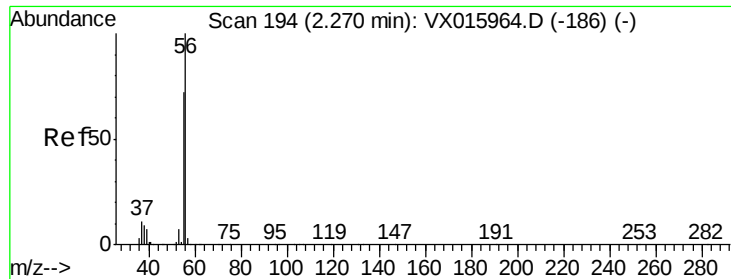


#12

1,1-Dichloroethene
Concen: 0.798 ug/l
RT: 2.36 min Scan# 208
Delta R.T. 0.00 min
Lab File: VX016017.D
Acq: 01 May 2020 17:25

Tgt Ion: 96 Resp: 2109
Ion Ratio Lower Upper
96 100
61 160.6 131.0 196.4
98 63.4 50.7 76.1





#13

Acrolein

Concen: 1.916 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

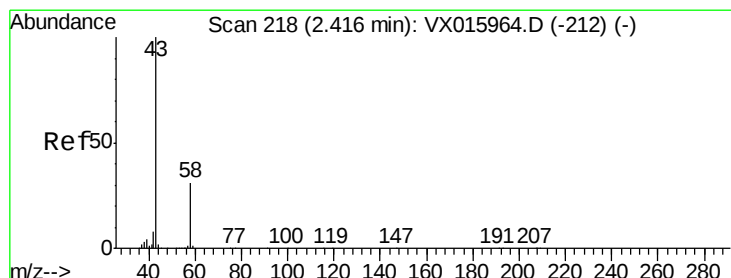
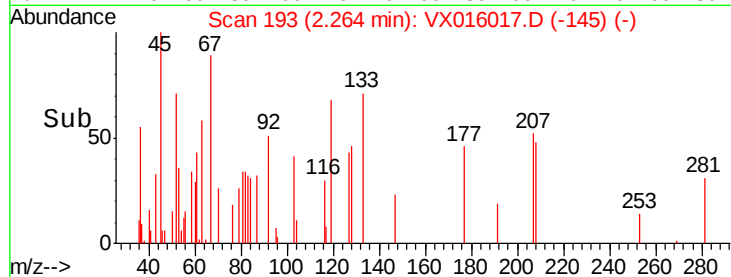
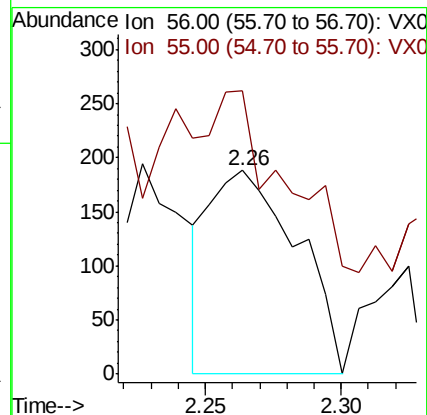
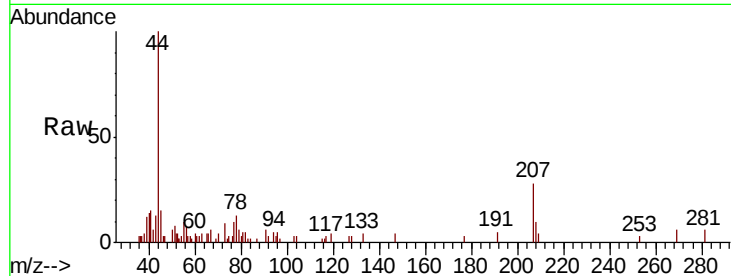
SA-PZ187I-20200429

Tot Ion: 56 Resp: 422

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 1.564 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.01 min

Lab File: VX016017.D

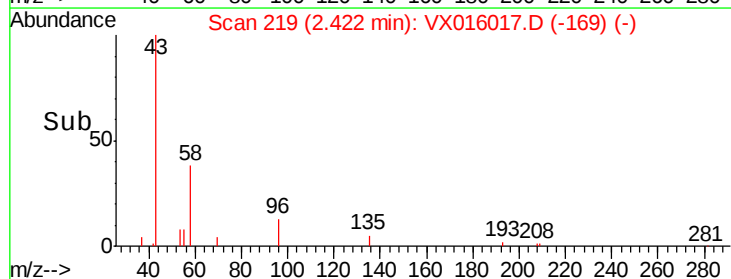
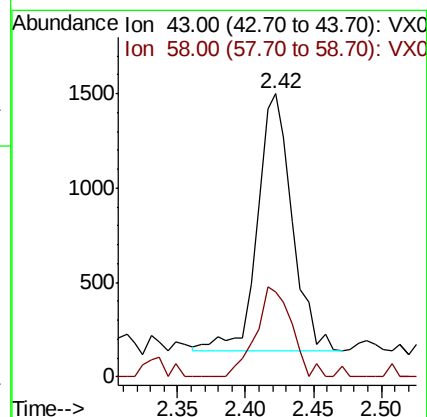
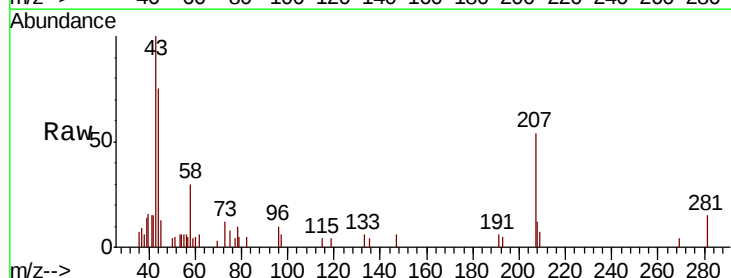
Acq: 01 May 2020 17:25

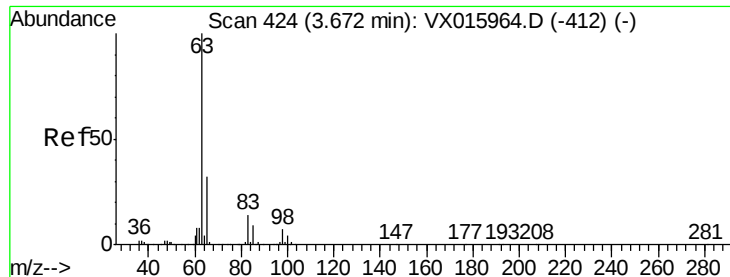
Tgt Ion: 43 Resp: 2415

Ion Ratio Lower Upper

43 100

58 33.2 25.1 37.7





#24

1,1-Dichloroethane

Concen: 11.372 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

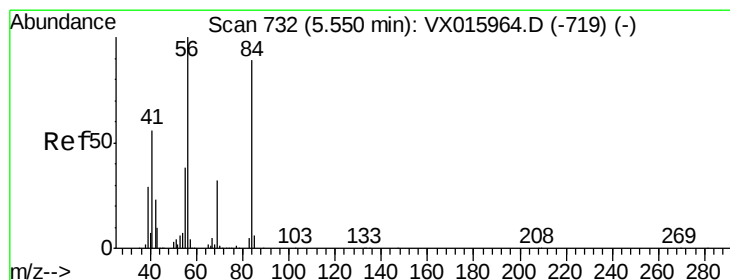
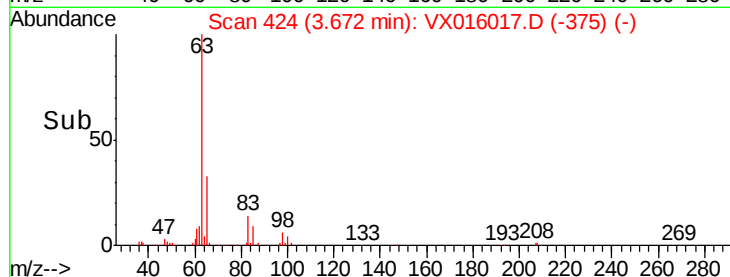
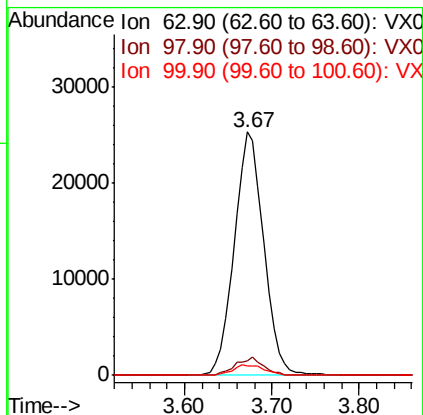
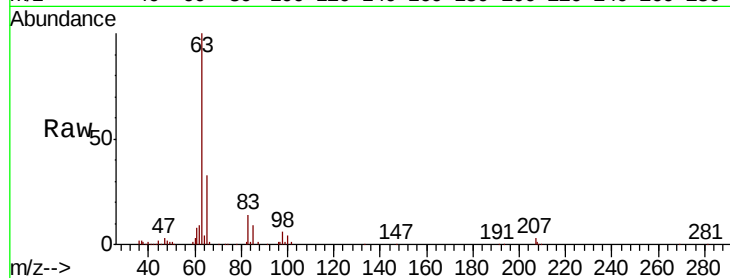
Instrument :

MSVOA_X

ClientSampleId :

SA-PZ187I-20200429

Tot Ion:	63	Resp:	59328
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.6	10.8
100	3.7	2.2	6.6



#31

Cyclohexane

Concen: 1.300 ug/l

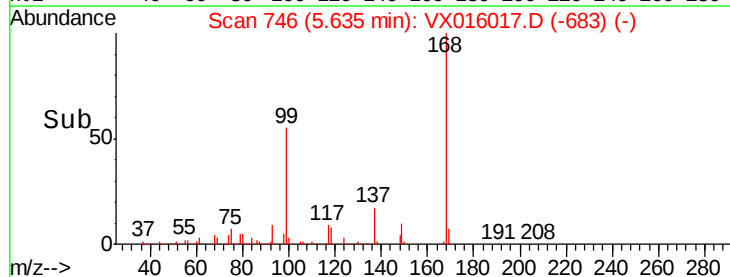
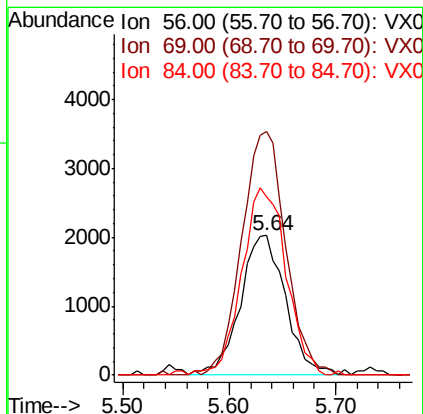
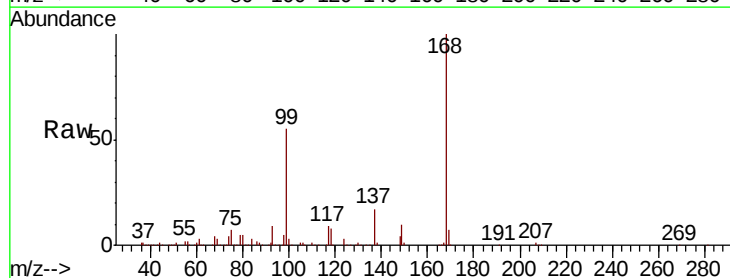
RT: 5.64 min Scan# 746

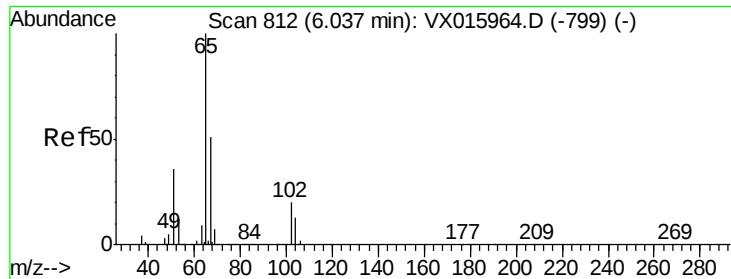
Delta R.T. 0.09 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Tgt Ion:	56	Resp:	6039
Ion	Ratio	Lower	Upper
56	100		
69	174.7	25.4	38.2#
84	127.7	71.0	106.6#

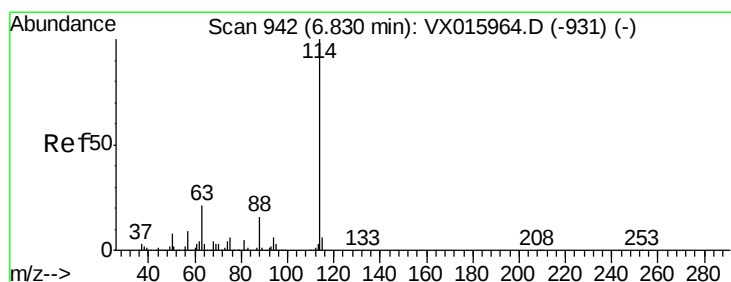
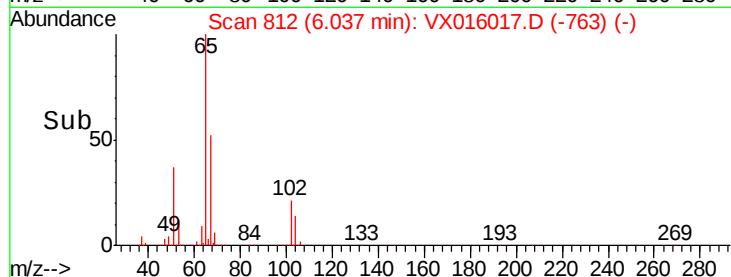
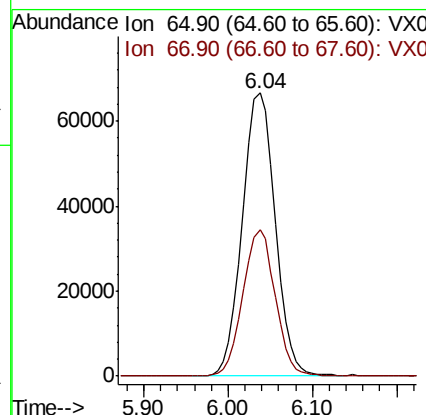
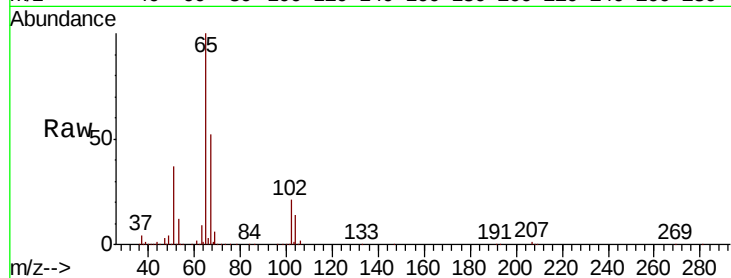




#33
 1,2-Dichloroethane-d4
 Concen: 48.863 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.00 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

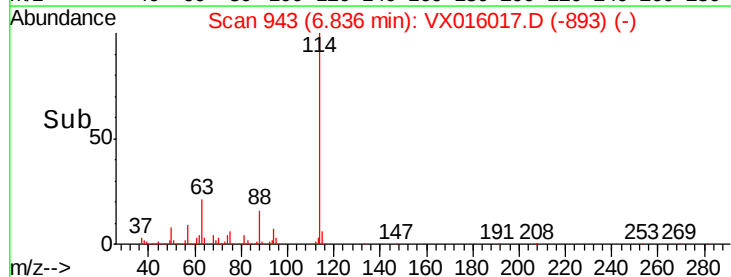
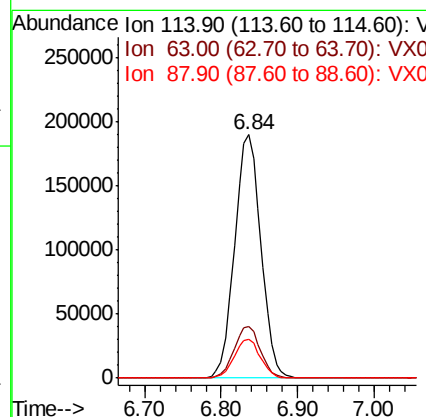
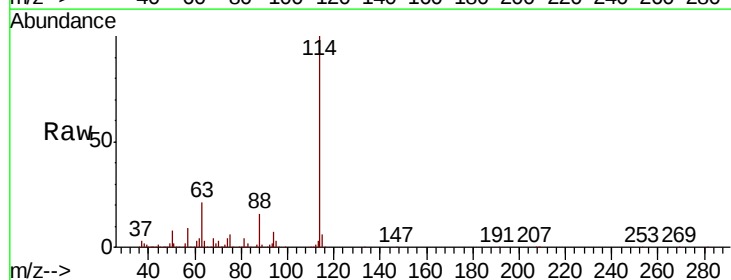
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ187I-20200429

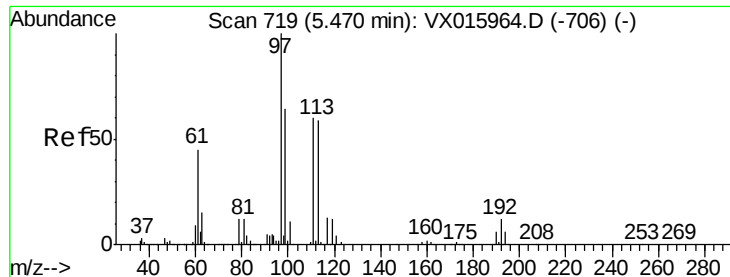
Tot Ion: 65 Resp: 176397
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

Tgt Ion: 114 Resp: 451083
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 41.2
 88 16.0 0.0 31.8

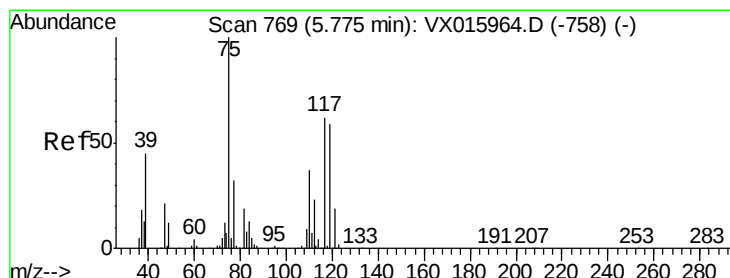
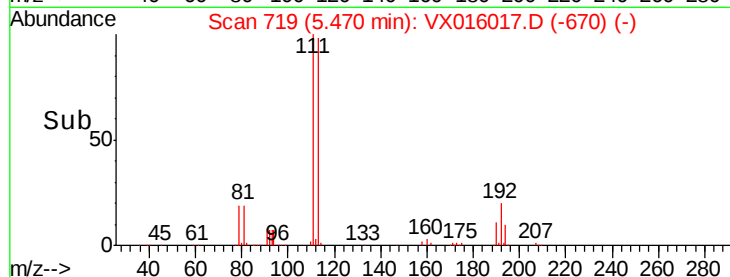
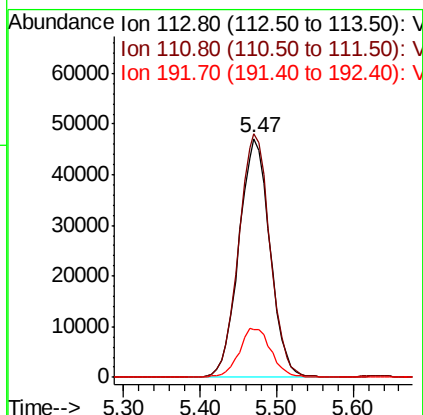
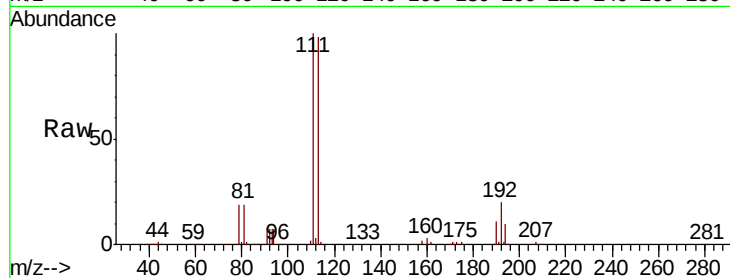




#35
 Dibromofluoromethane
 Concen: 47.202 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

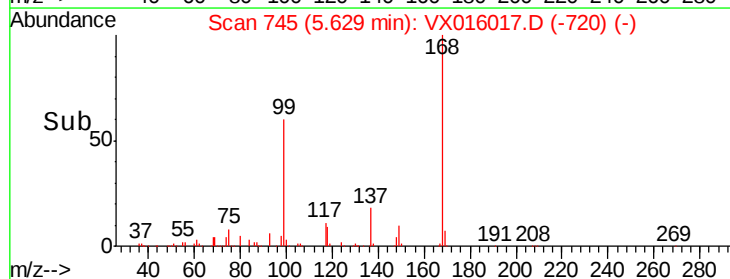
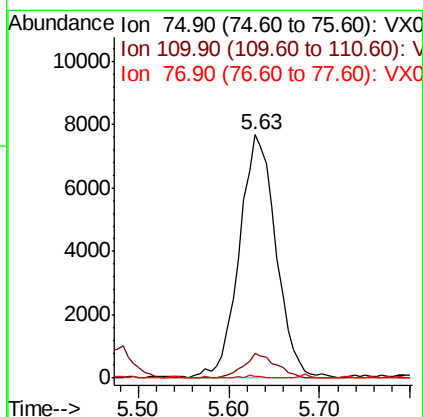
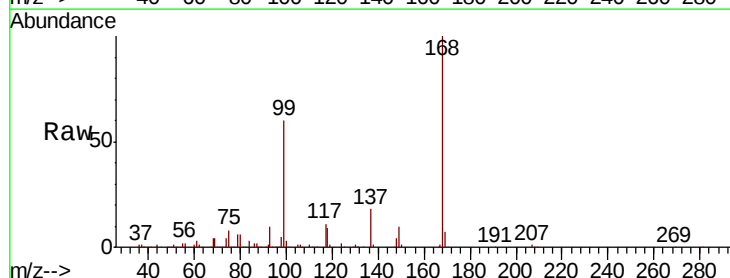
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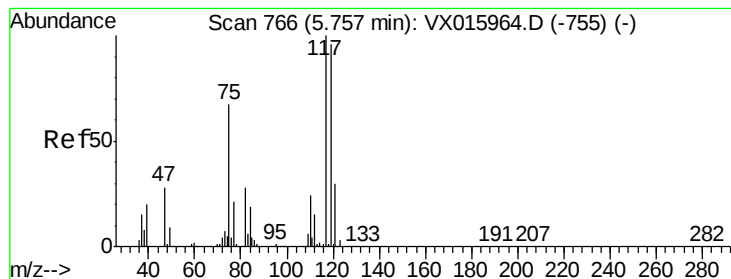
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.8
192	21.0	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 5.015 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.15 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.9	53.7#
77	0.4	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 6.016 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ187I-20200429

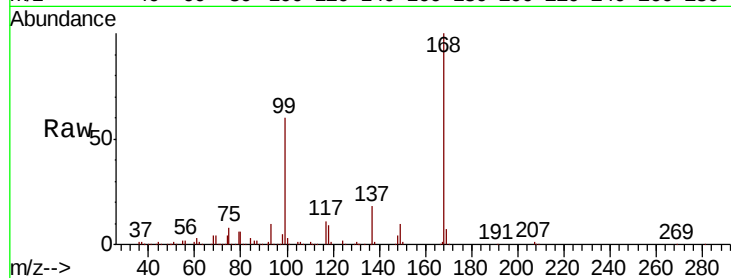
Tot Ion:117 Resp: 27298

Ion Ratio Lower Upper

117 100

119 6.3 76.2 114.4#

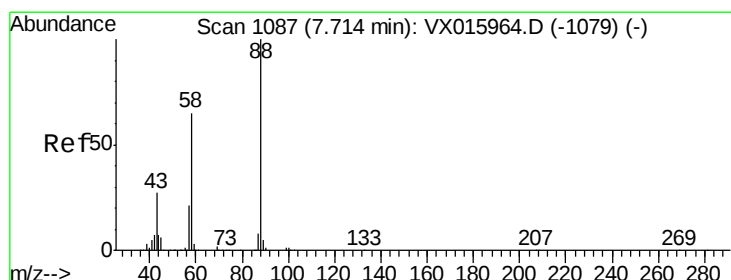
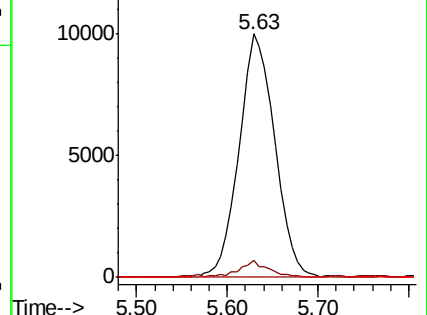
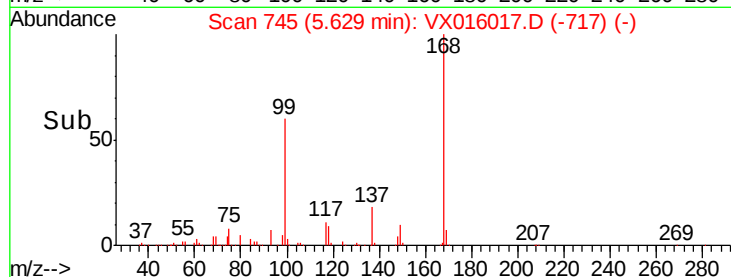
121 0.0 24.2 36.4#



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: 0.282 ug/l

RT: 7.54 min Scan# 1058

Delta R.T. -0.18 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

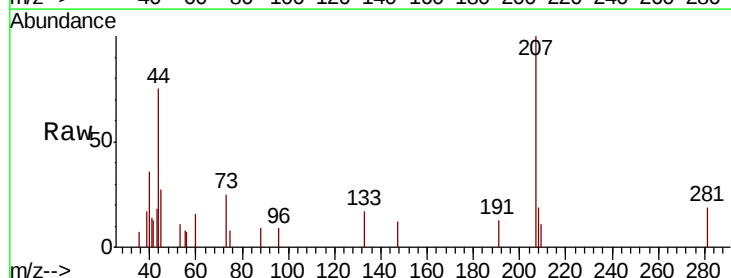
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

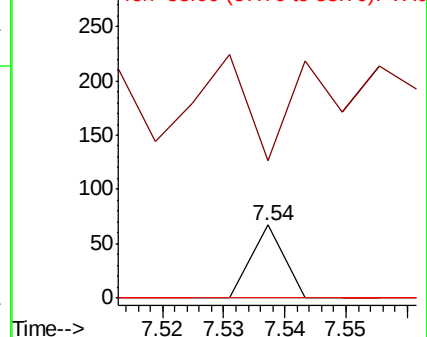
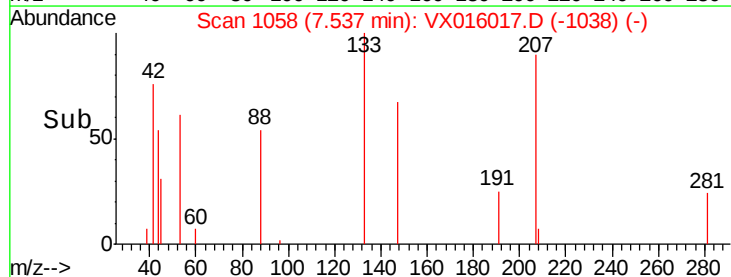
58 0.0 54.8 82.2#

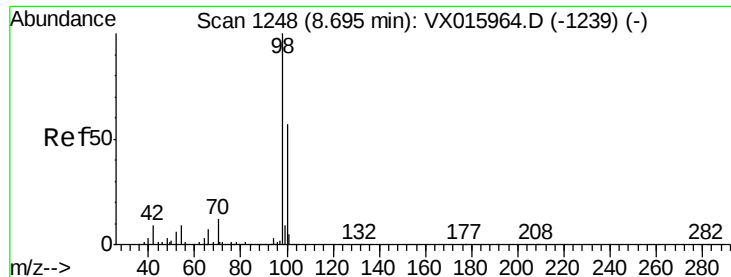


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.321 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

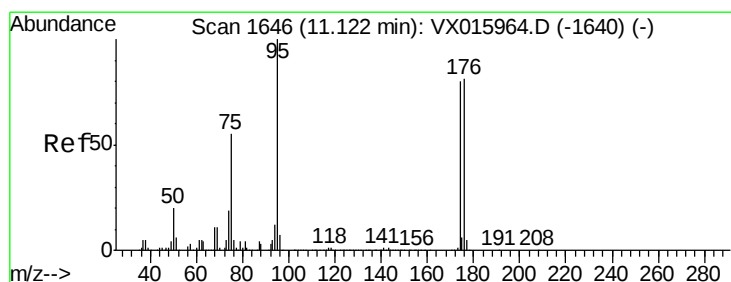
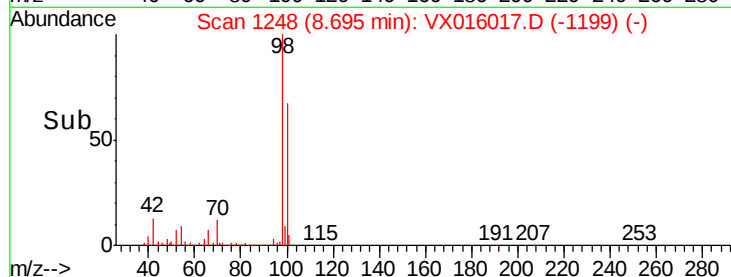
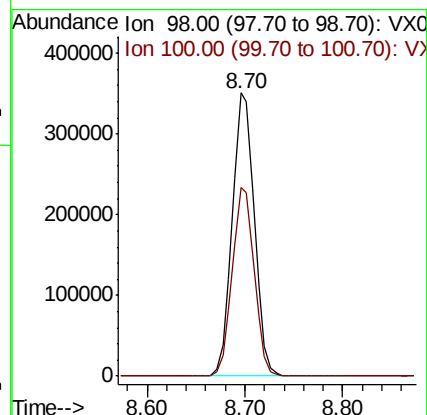
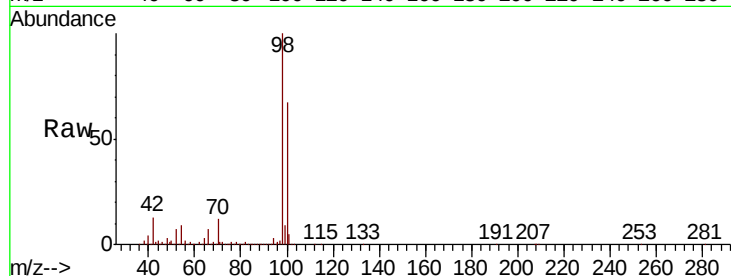
SA-PZ187I-20200429

Tot Ion: 98 Resp: 550458

Ion Ratio Lower Upper

98 100

100 66.5 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 54.123 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

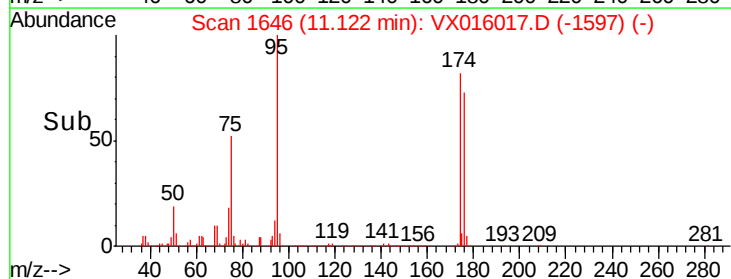
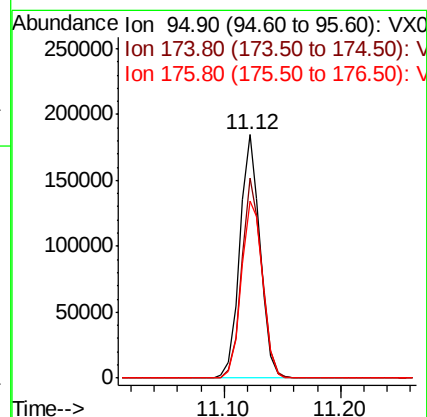
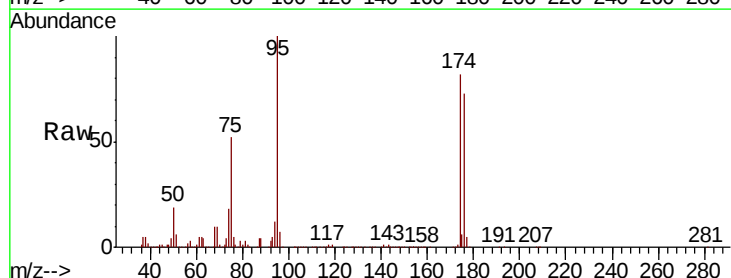
Tgt Ion: 95 Resp: 223334

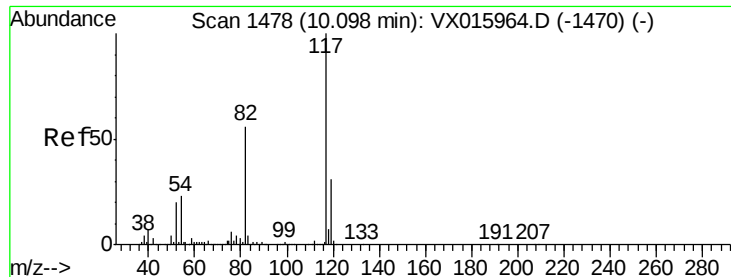
Ion Ratio Lower Upper

95 100

174 81.8 0.0 165.0

176 77.1 0.0 163.2

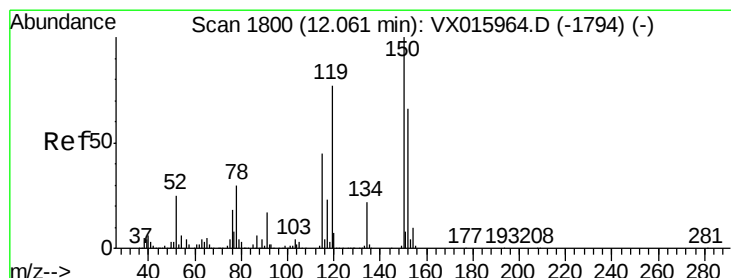
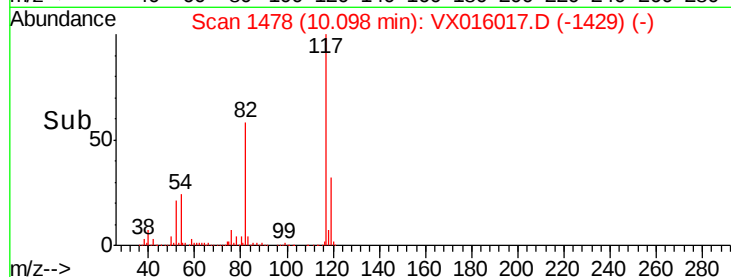
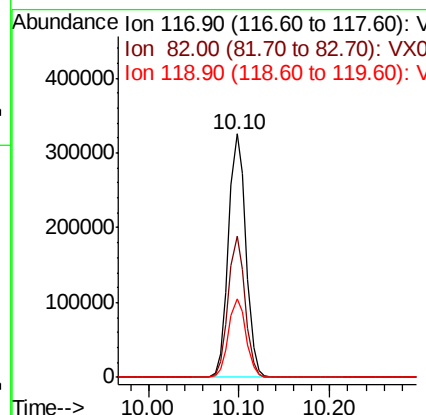
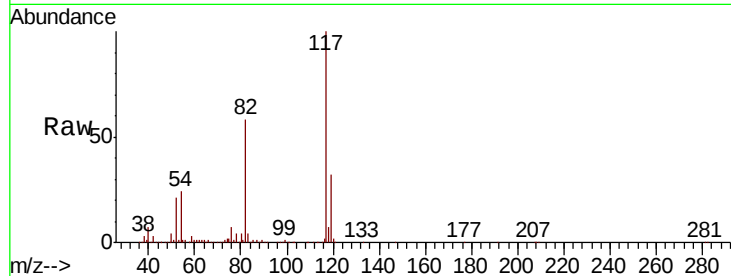




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016017.D
Acq: 01 May 2020 17:25

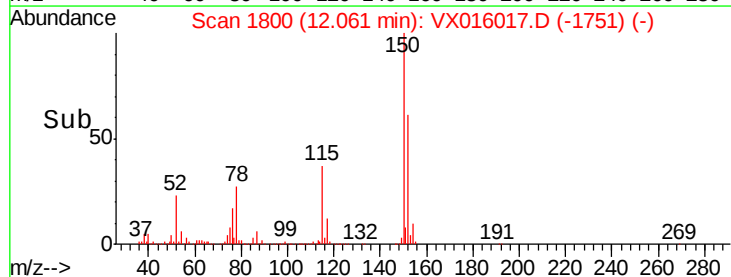
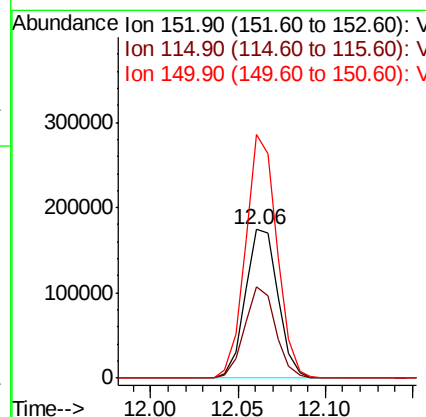
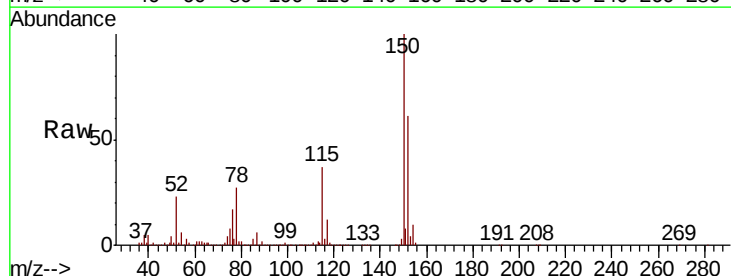
Instrument :
MSVOA_X
ClientSampleId :
SA-PZ187I-20200429

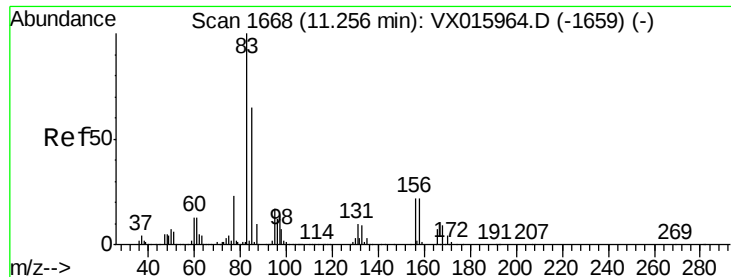
Tot Ion:117 Resp: 436267
Ion Ratio Lower Upper
117 100
82 58.1 44.5 66.7
119 32.4 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX016017.D
Acq: 01 May 2020 17:25

Tgt Ion:152 Resp: 225823
Ion Ratio Lower Upper
152 100
115 58.6 40.9 122.7
150 157.3 0.0 342.4





#75

1,1,2,2-Tetrachloroethane

Concen: 3.827 ug/l

RT: 11.26 min Scan# 1669

Delta R.T. 0.01 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ187I-20200429

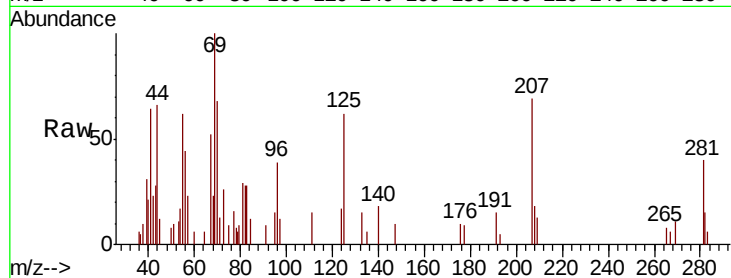
Tot Ion: 83 Resp: 487

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

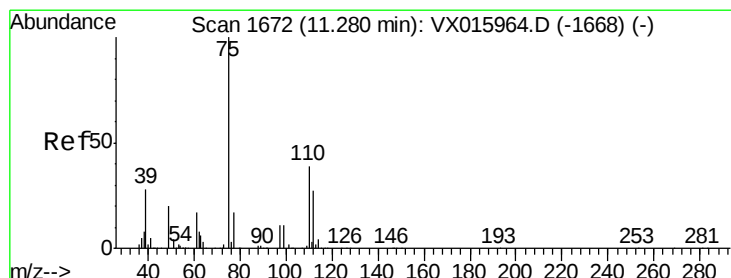
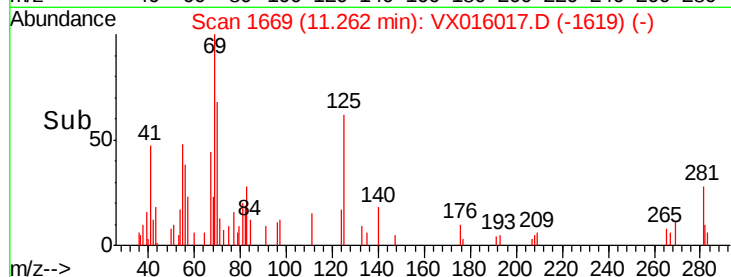
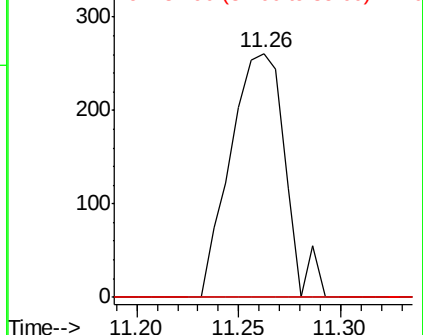
85 0.0 32.2 96.6#



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: 24.597 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016017.D

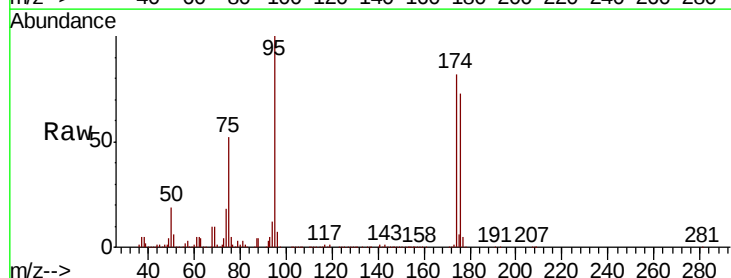
Acq: 01 May 2020 17:25

Tgt Ion: 75 Resp: 116553

Ion Ratio Lower Upper

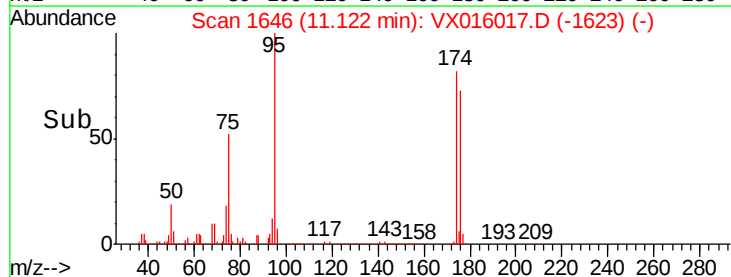
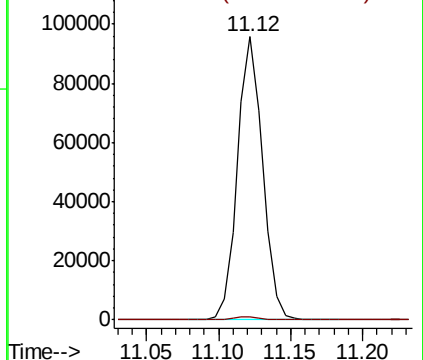
75 100

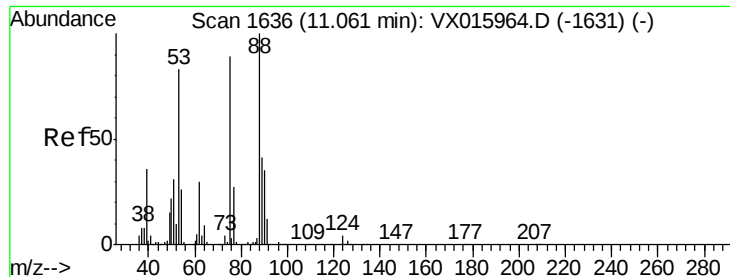
77 1.3 21.6 65.0#



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: 58.126 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ187I-20200429

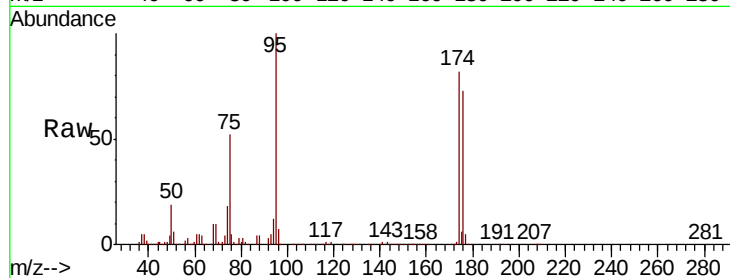
Tot Ion: 75 Resp: 116553

Ion Ratio Lower Upper

75 100

53 0.3 78.3 117.5#

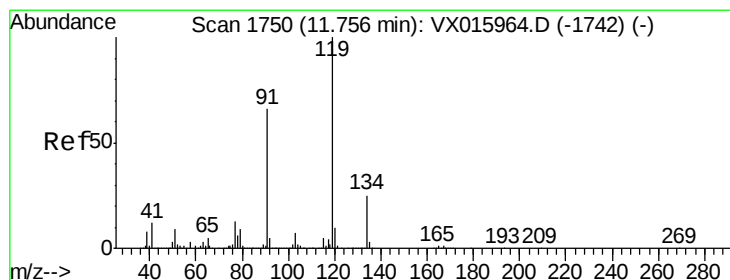
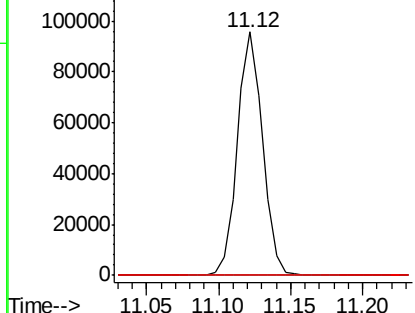
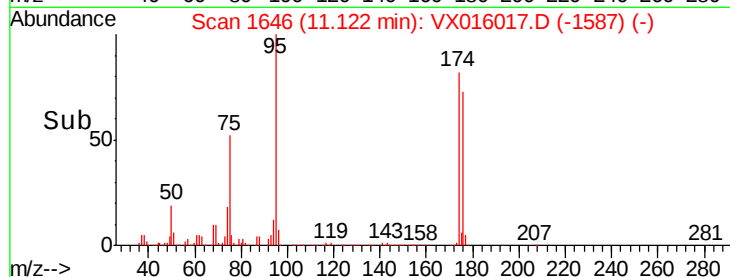
89 0.0 37.2 55.8#



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



#83

tert-Butylbenzene

Concen: 0.214 ug/l

RT: 11.76 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

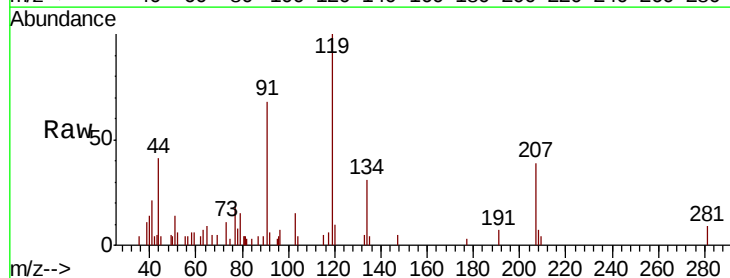
Tgt Ion: 119 Resp: 2387

Ion Ratio Lower Upper

119 100

91 74.9 33.5 100.4

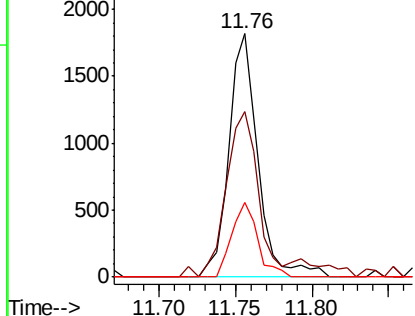
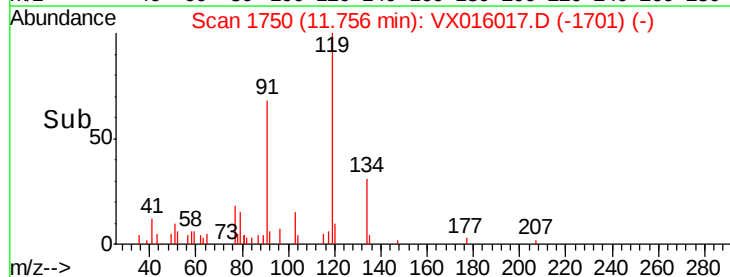
134 27.3 12.4 37.2

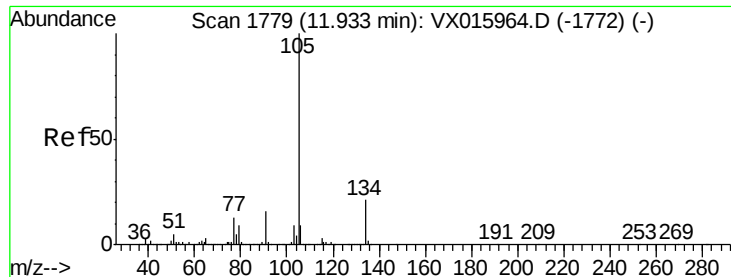


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 0.376 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

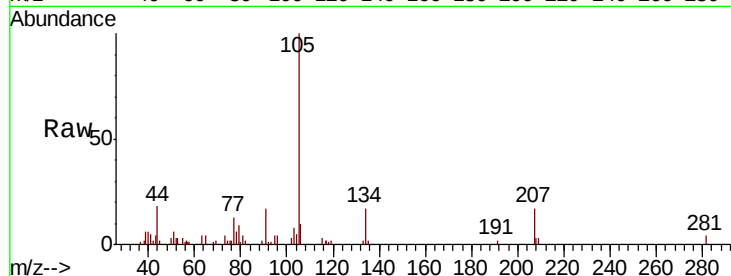
SA-PZ187I-20200429

Tot Ion:105 Resp: 5653

Ion Ratio Lower Upper

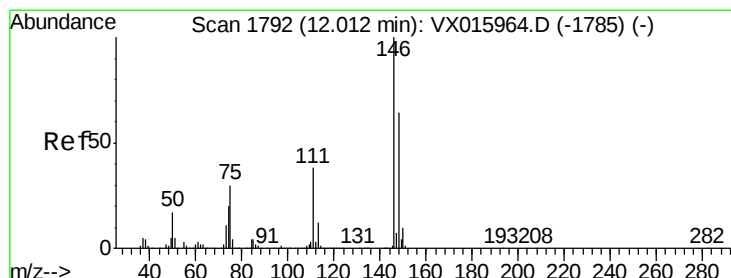
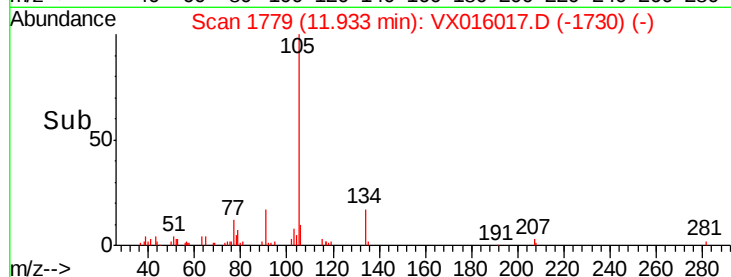
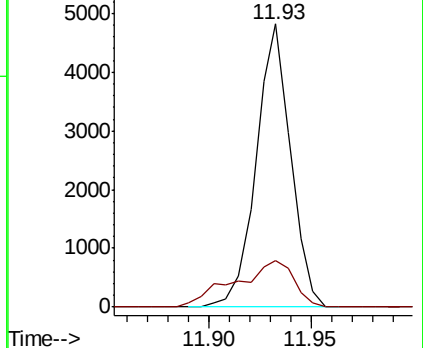
105 100

134 28.3 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 0.443 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

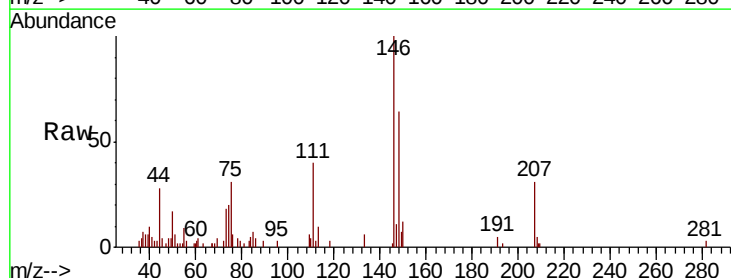
Tgt Ion:146 Resp: 3194

Ion Ratio Lower Upper

146 100

111 45.1 19.6 58.8

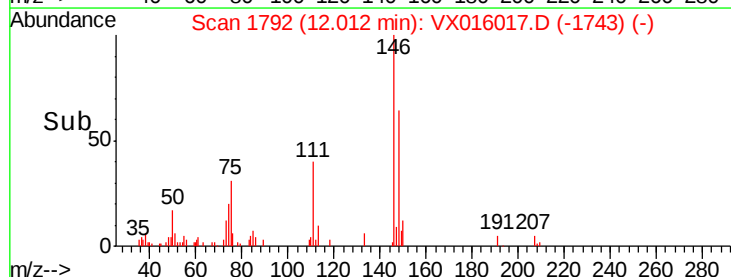
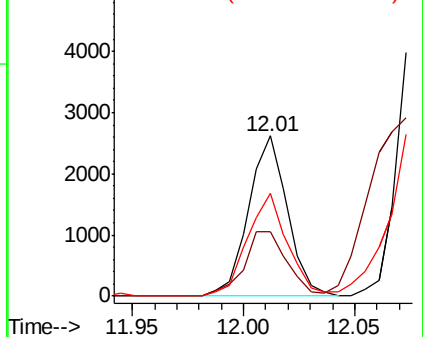
148 65.8 32.0 96.0

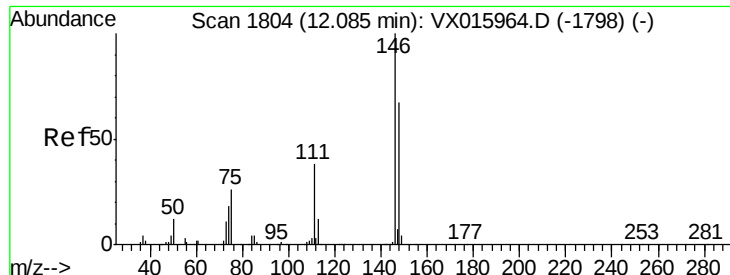


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#88

1,4-Dichlorobenzene

Concen: 0.438 ug/l

RT: 12.01 min Scan# 1792

Delta R.T. -0.07 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ1871-20200429

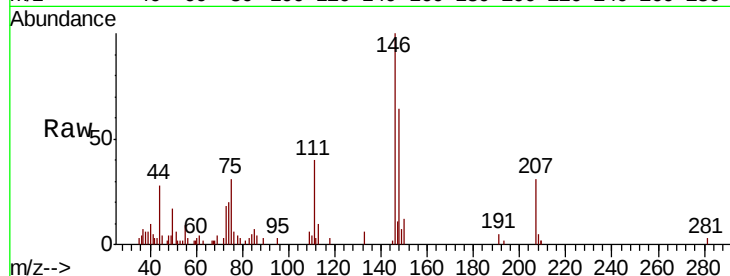
Tot Ion:146 Resp: 3194

Ion Ratio Lower Upper

146 100

111 45.1 19.7 59.0

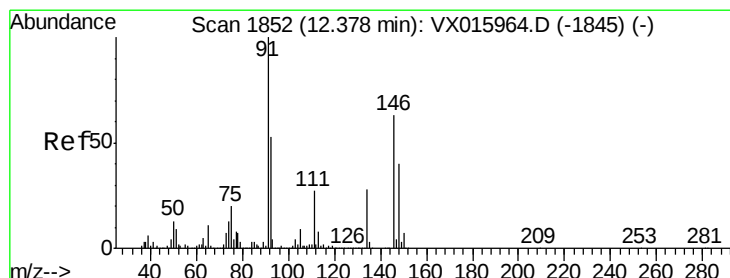
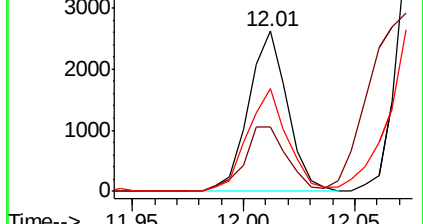
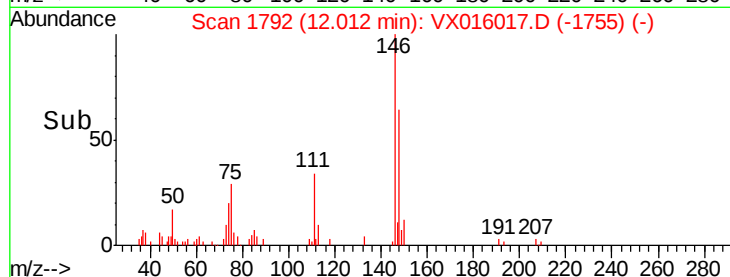
148 65.8 32.8 98.4



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



#91

1,2-Dichlorobenzene

Concen: 0.687 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016017.D

Acq: 01 May 2020 17:25

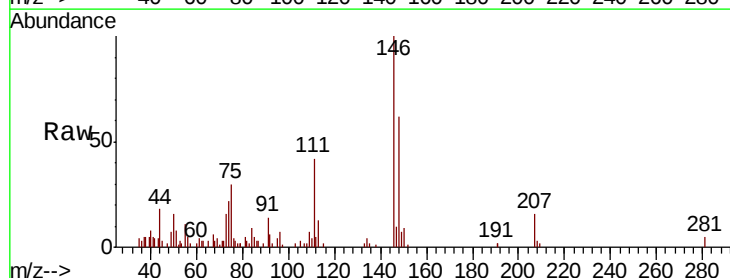
Tgt Ion:146 Resp: 4734

Ion Ratio Lower Upper

146 100

111 41.9 21.1 63.3

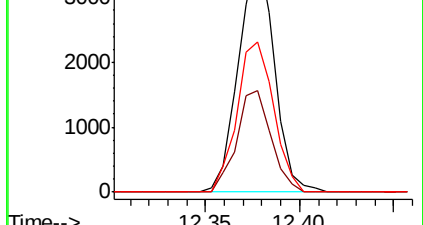
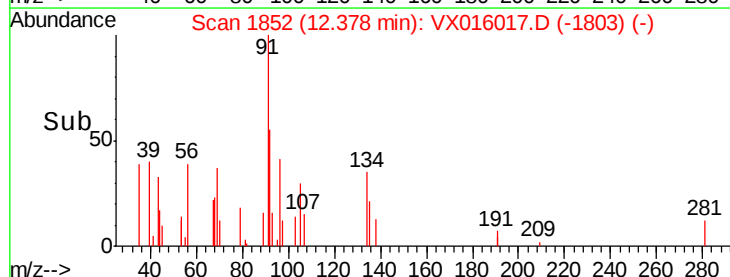
148 65.7 32.3 96.9

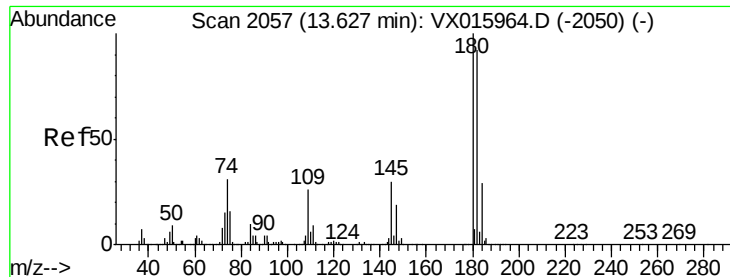


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

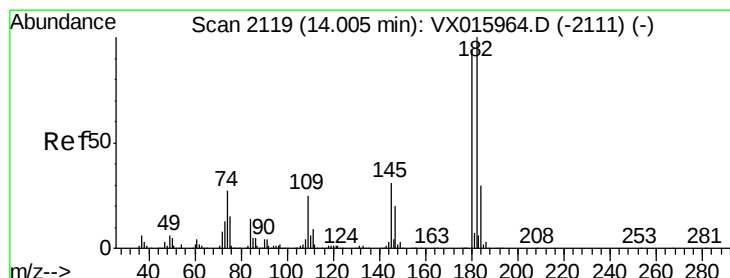
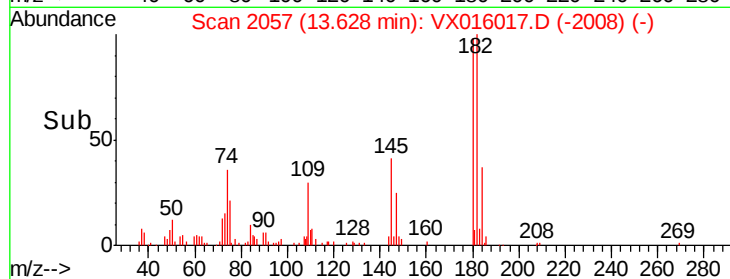
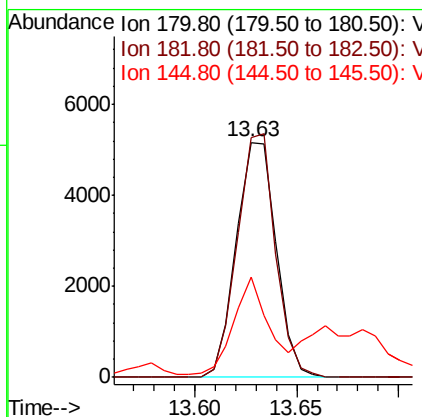
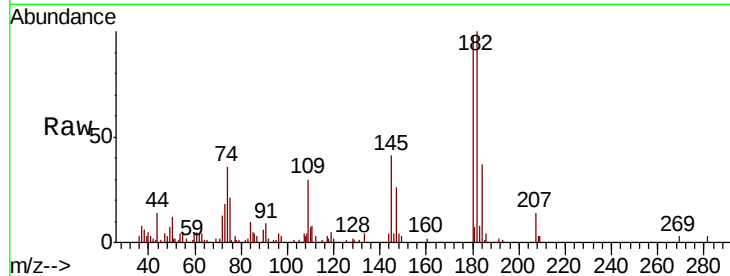




#93
 1,2,4-Trichlorobenzene
 Concen: 1.358 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ187I-20200429

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.7	46.9	140.6
145	38.9	14.7	44.1



#96
 1,2,3-Trichlorobenzene
 Concen: 0.560 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VX016017.D
 Acq: 01 May 2020 17:25

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	48.7	146.1
145	87.0	16.1	48.3

