

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050720\
 Data File : VX016100.D
 Acq On : 07 May 2020 17:35
 Operator : JC/SP
 Sample : L2532-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS052MW717-200506

Quant Time: May 08 02:06:02 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	271059	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	452346	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	444349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	235946	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	172362	48.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.64%	
35) Dibromofluoromethane	5.46	113	136019	47.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.92%	
50) Toluene-d8	8.70	98	558652	50.59	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	11.12	95	224312	53.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.82%	

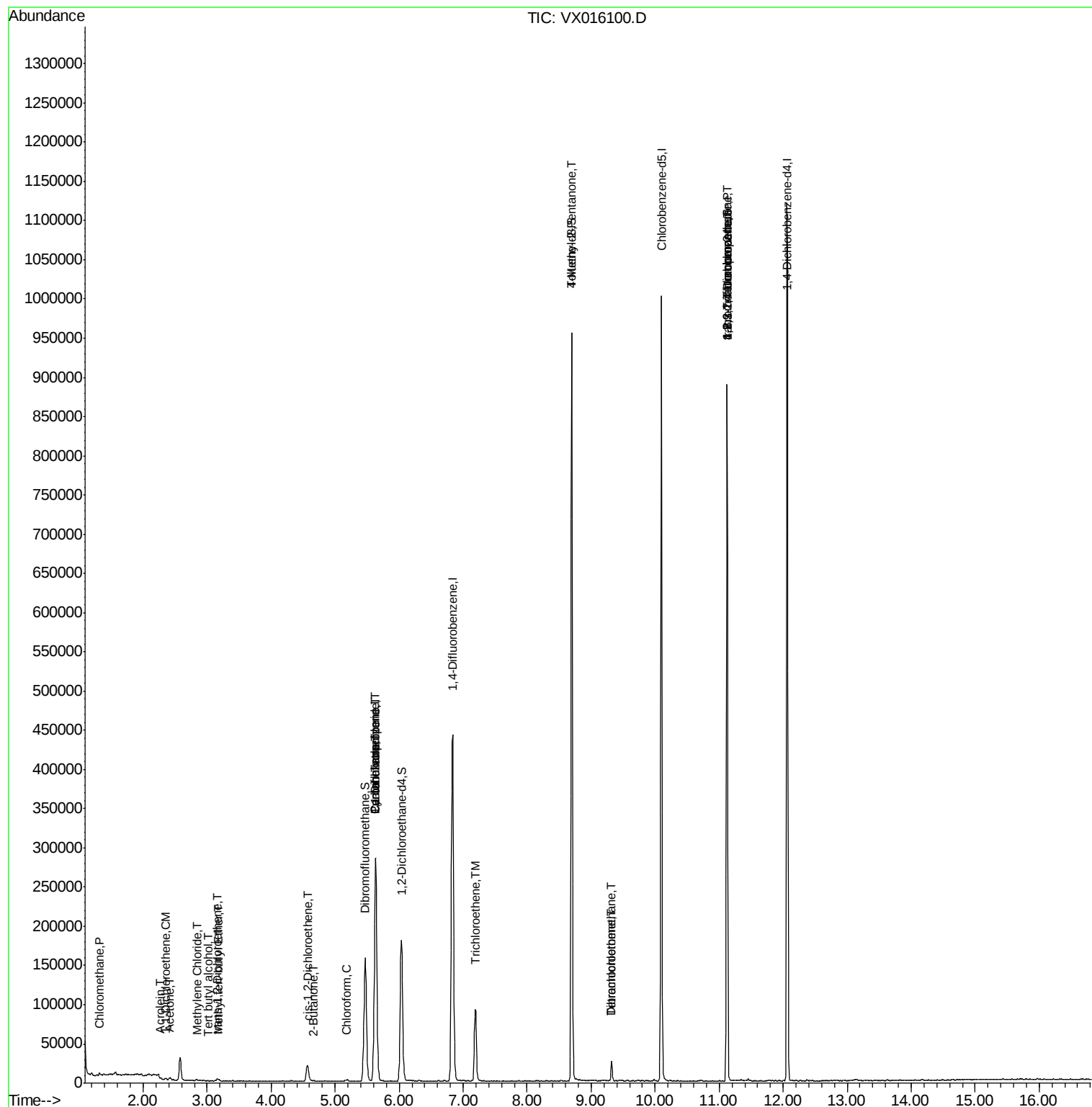
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1406	0.422	ug/l	92
11) Tert butyl alcohol	3.02	59	298	0.330	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	1035	0.367	ug/l	86
13) Acrolein	2.27	56	257	0.455	ug/l #	51
16) Acetone	2.42	43	4103	2.578	ug/l	99
17) Carbon Disulfide	2.55	76	1443	Below Cal	#	94
19) Methyl tert-butyl Ether	3.18	73	2805	0.289	ug/l	99
20) Methylene Chloride	2.84	84	756	0.230	ug/l #	79
21) trans-1,2-Dichloroethene	3.15	96	817	0.260	ug/l #	39
25) 2-Butanone	4.65	43	1356	0.529	ug/l #	48
27) cis-1,2-Dichloroethene	4.57	96	13260	3.863	ug/l	85
30) Chloroform	5.18	83	2043	0.376	ug/l #	82
31) Cyclohexane	5.64	56	5860	1.183	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	20580	4.622	ug/l #	49
38) Carbon Tetrachloride	5.63	117	27120	5.992	ug/l #	14
44) Trichloroethene	7.20	130	35818	7.739	ug/l	96
51) 4-Methyl-2-Pentanone	8.69	43	2503	0.497	ug/l #	1
60) Dibromochloromethane	9.32	129	4662	1.325	ug/l #	11
64) Tetrachloroethene	9.32	164	4856	0.890	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.13	83	191	2.109	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	113689	21.234	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	113689	50.602	ug/l #	13

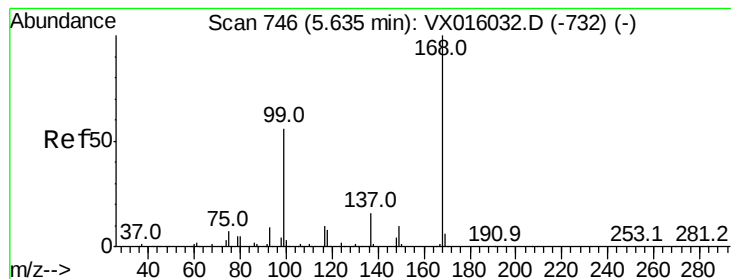
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 08 02:06:02 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
Quant Title : SW846 8260
QLast Update : Wed May 06 06:43:32 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: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

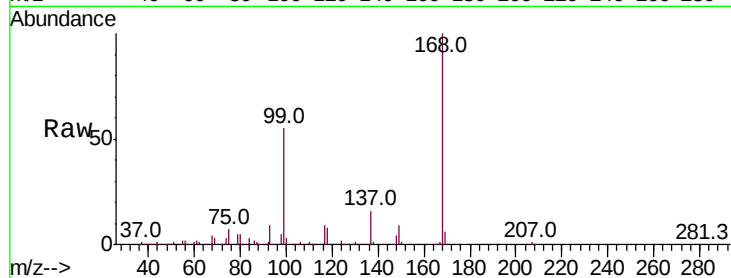
SS052MW717-200506

Tot Ion:168 Resp: 271059

Ion Ratio Lower Upper

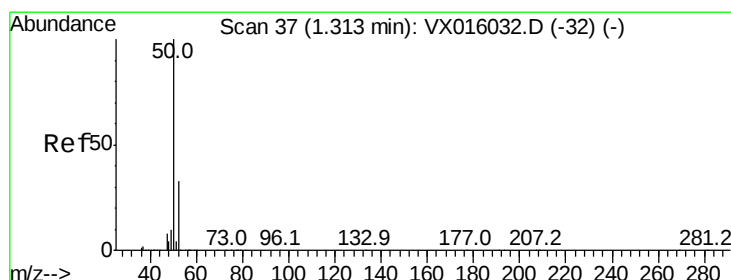
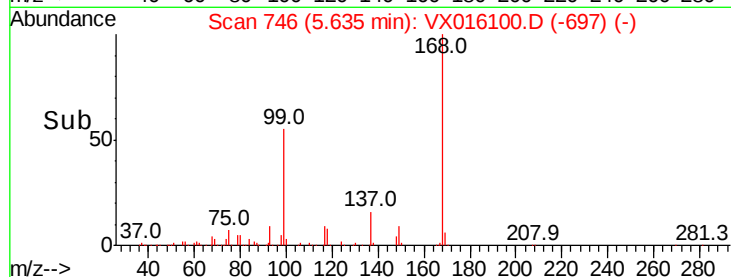
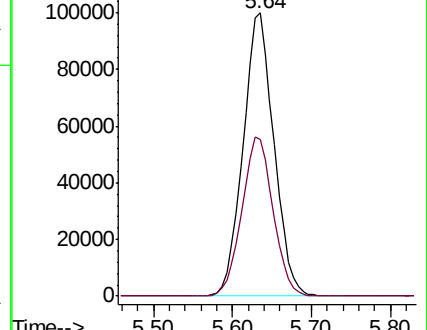
168 100

99 55.1 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.422 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX016100.D

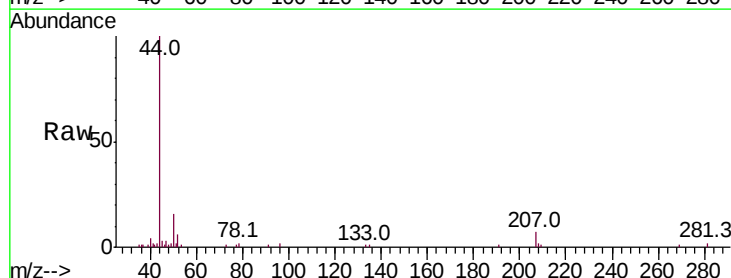
Acq: 07 May 2020 17:35

Tgt Ion: 50 Resp: 1406

Ion Ratio Lower Upper

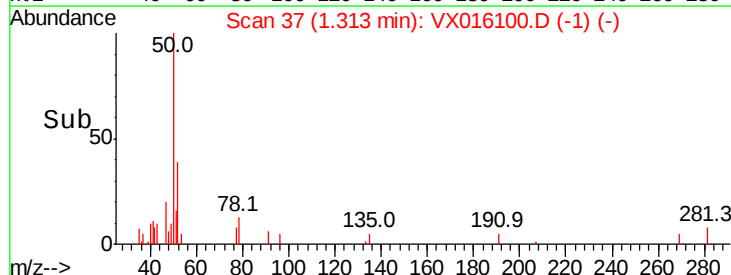
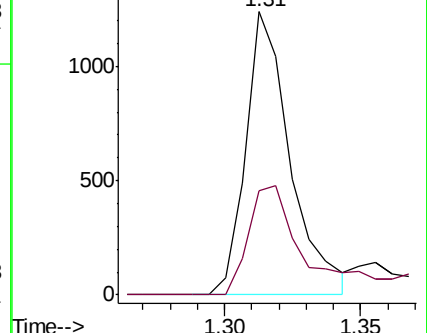
50 100

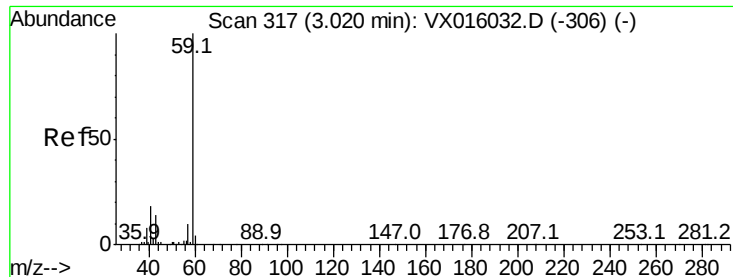
52 37.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

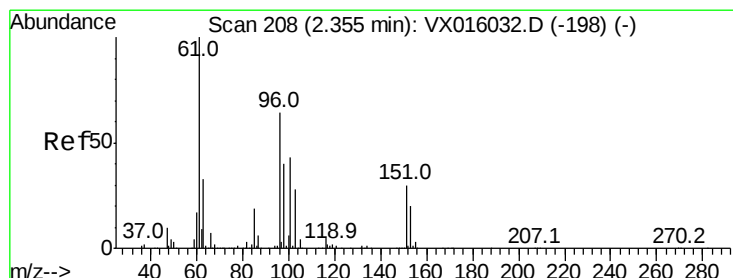
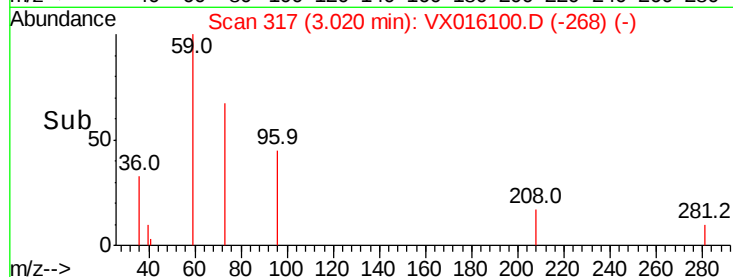
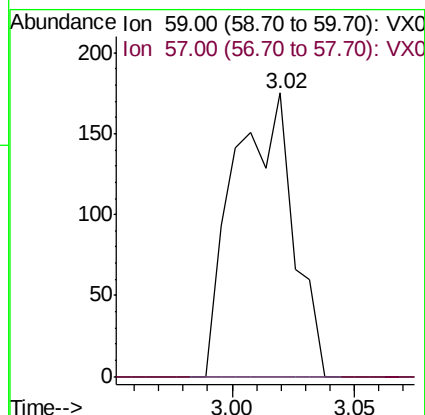
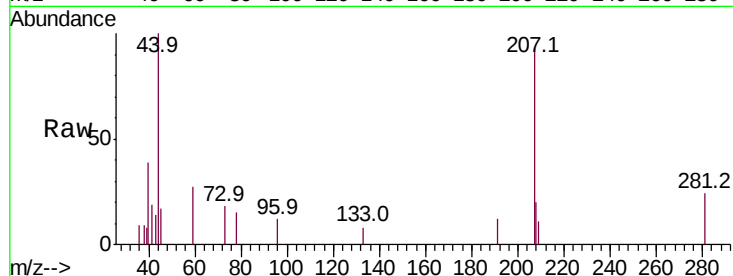




#11
Tert butyl alcohol
Concen: 0.330 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

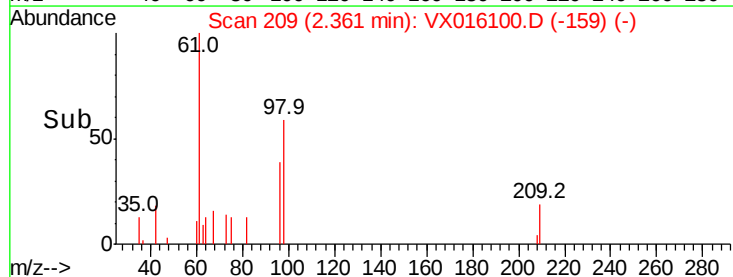
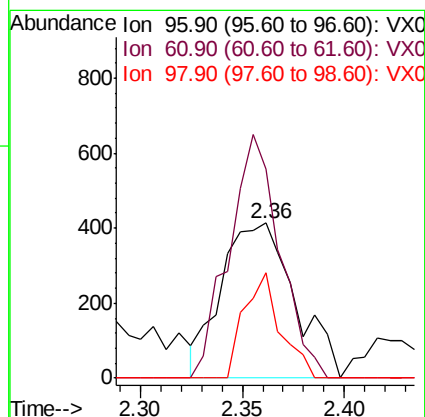
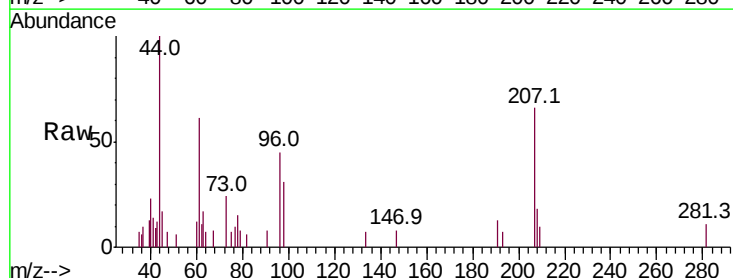
Instrument :
MSVOA_X
ClientSampleId :
SS052MW717-200506

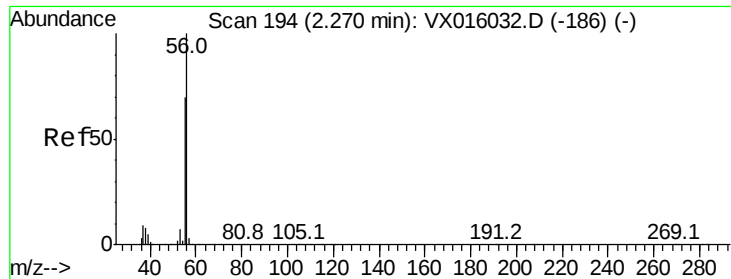
Tot Ion: 59 Resp: 298
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 0.367 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

Tgt Ion: 96 Resp: 1035
Ion Ratio Lower Upper
96 100
61 134.6 124.8 187.2
98 67.8 49.7 74.5





#13

Acrolein

Concen: 0.455 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

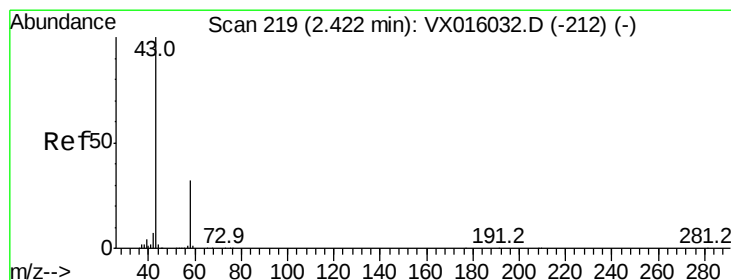
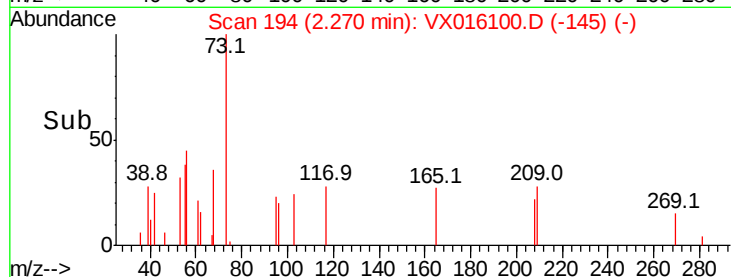
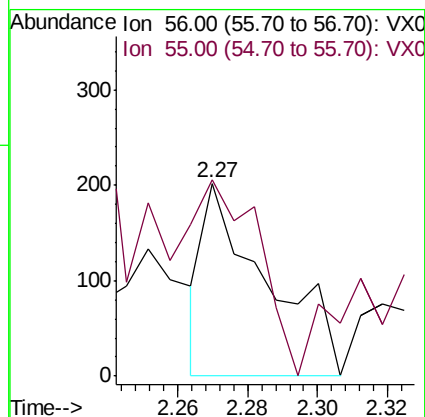
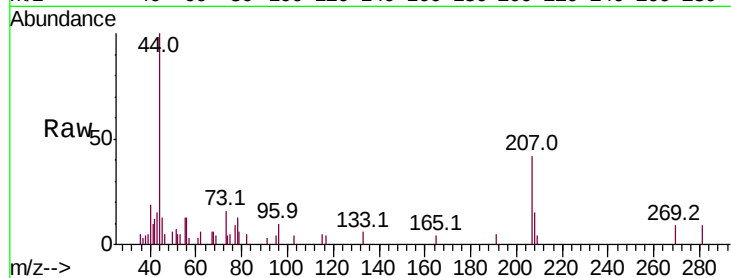
SS052MW717-200506

Tot Ion: 56 Resp: 257

Ion Ratio Lower Upper

56 100

55 110.9 56.5 84.7#



#16

Acetone

Concen: 2.578 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016100.D

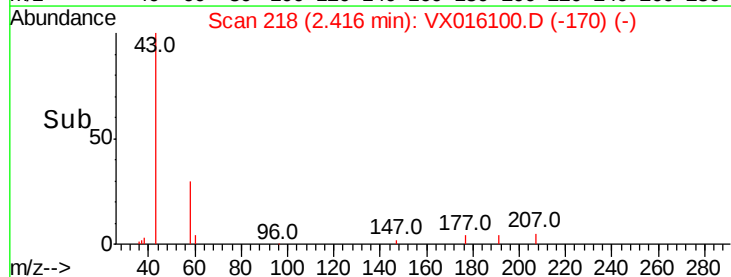
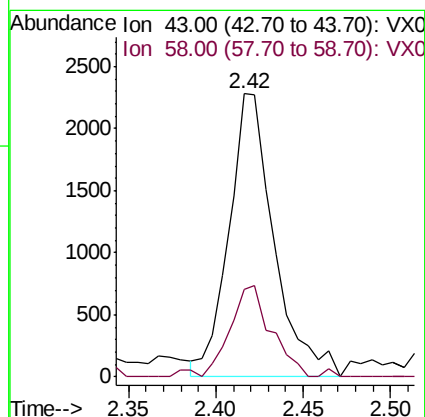
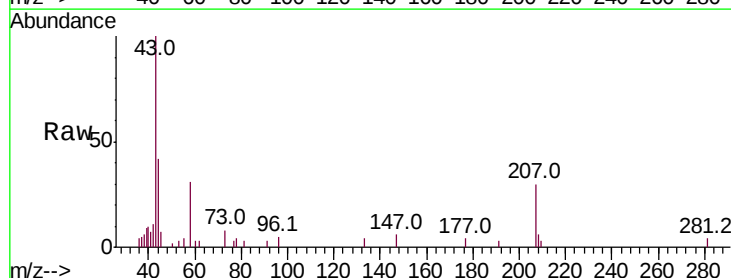
Acq: 07 May 2020 17:35

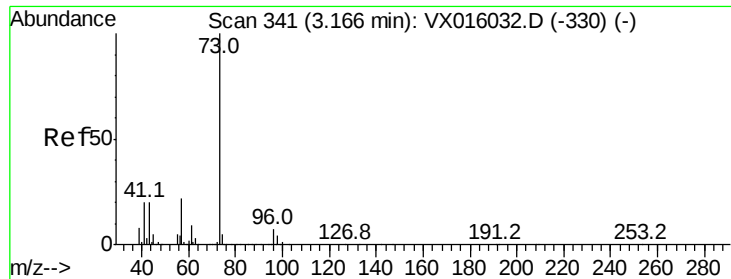
Tgt Ion: 43 Resp: 4103

Ion Ratio Lower Upper

43 100

58 31.0 25.4 38.0

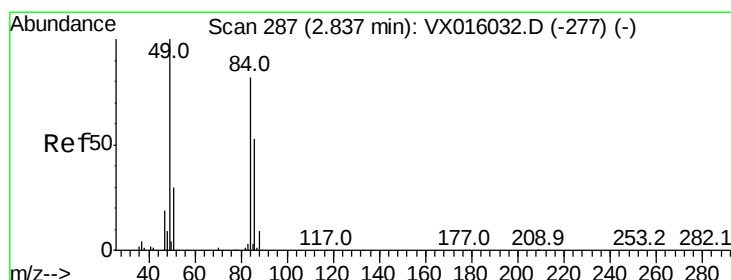
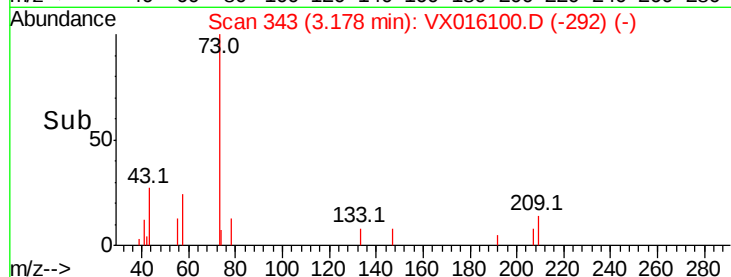
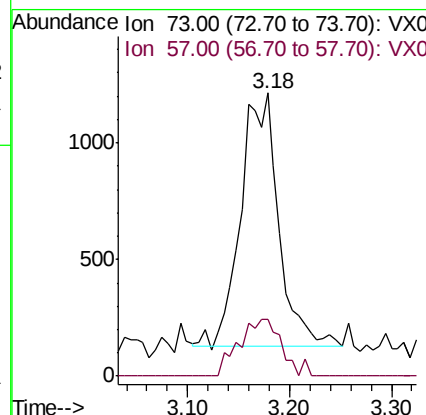
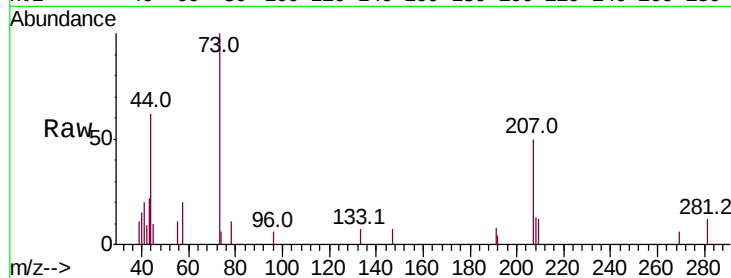




#19
Methyl tert-butyl Ether
Concen: 0.289 ug/l
RT: 3.18 min Scan# 343
Delta R.T. 0.01 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

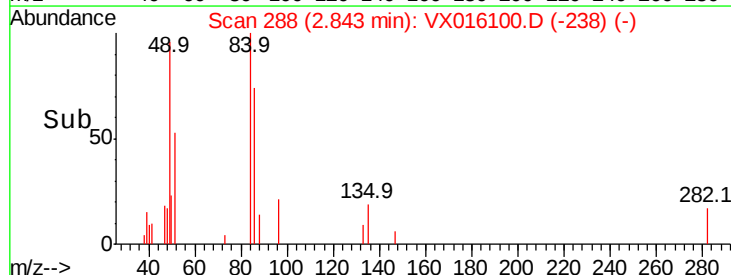
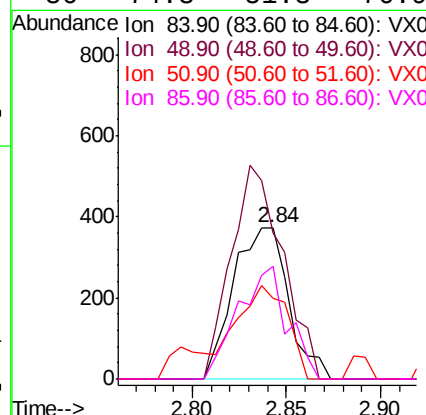
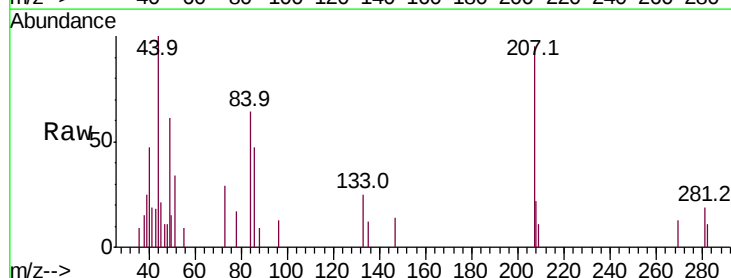
Instrument :
MSVOA_X
ClientSampleId :
SS052MW717-200506

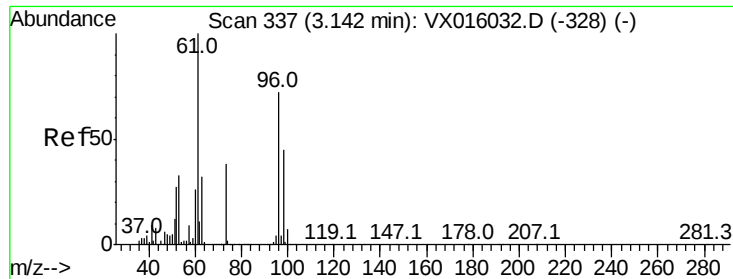
Tot Ion: 73 Resp: 2805
Ion Ratio Lower Upper
73 100
57 22.5 17.8 26.6



#20
Methylene Chloride
Concen: 0.230 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

Tgt Ion: 84 Resp: 756
Ion Ratio Lower Upper
84 100
49 96.3 97.3 145.9#
51 53.2 29.3 43.9#
86 74.3 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 0.260 ug/l

RT: 3.15 min Scan# 339

Delta R.T. 0.01 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

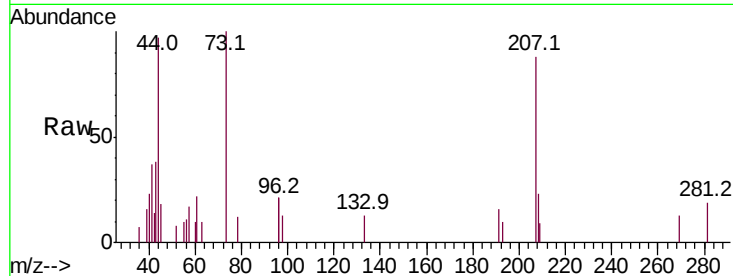
Tot Ion: 96 Resp: 817

Ion Ratio Lower Upper

96 100

61 53.8 111.2 166.8#

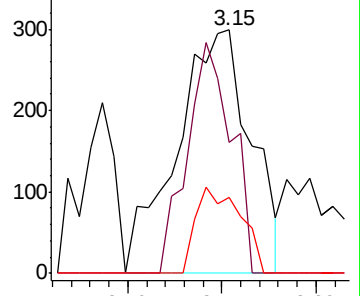
98 31.4 50.2 75.4#



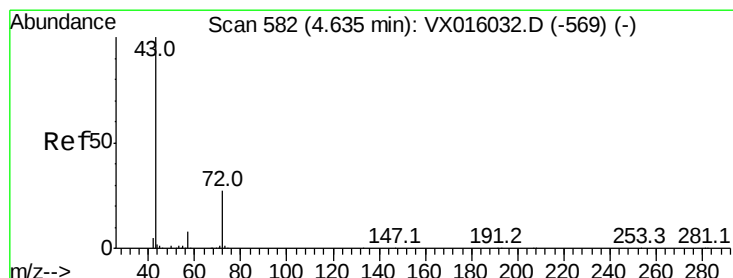
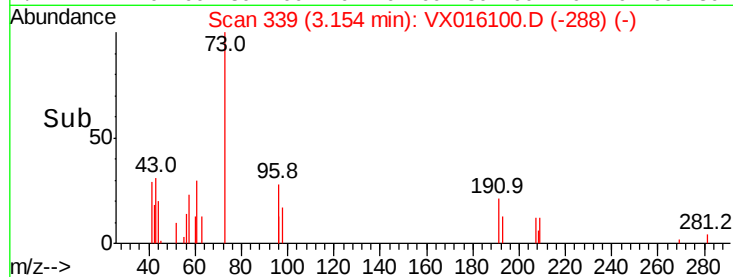
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#25

2-Butanone

Concen: 0.529 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX016100.D

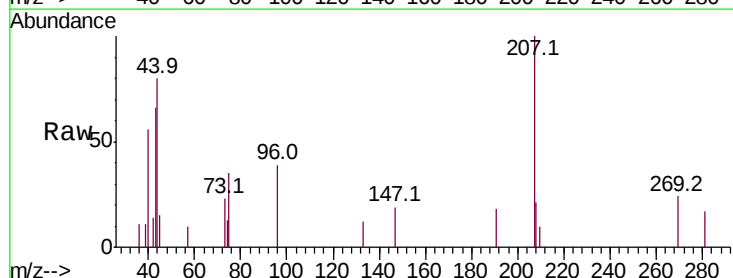
Acq: 07 May 2020 17:35

Tgt Ion: 43 Resp: 1356

Ion Ratio Lower Upper

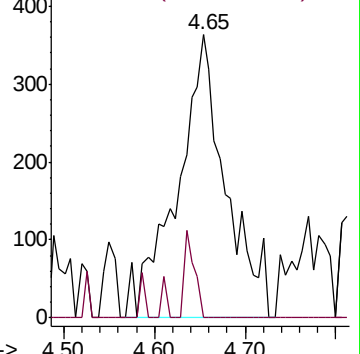
43 100

72 0.0 21.8 32.8#

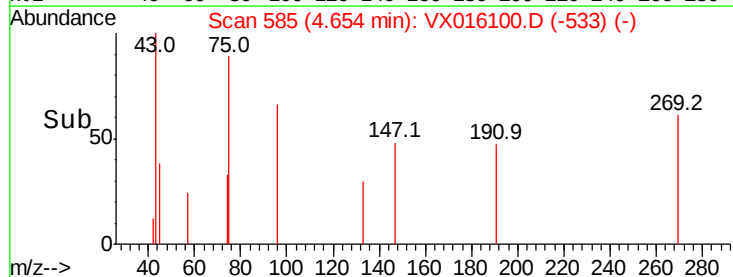


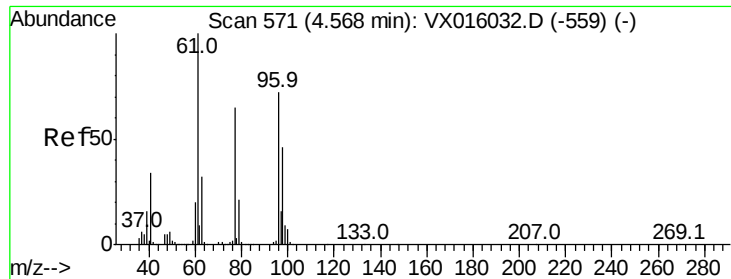
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



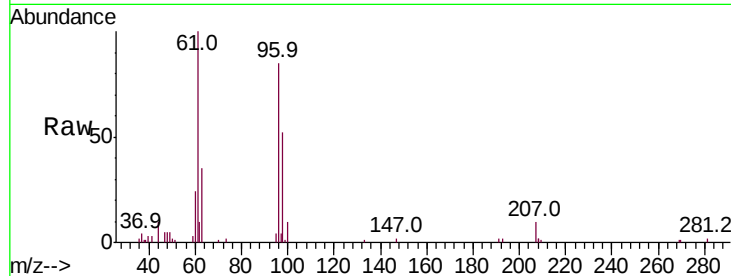


#27

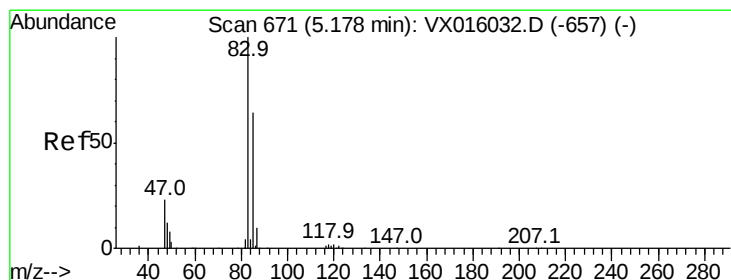
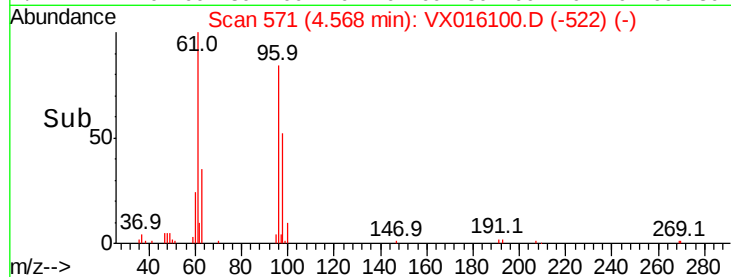
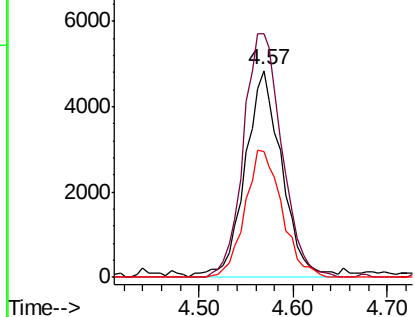
cis-1,2-Dichloroethene
Concen: 3.863 ug/l
RT: 4.57 min Scan# 571
Delta R.T. -0.00 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

Instrument :
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Tot Ion	Ratio	Lower	Upper
96	100		
61	123.3	0.0	296.2
98	62.0	0.0	129.4



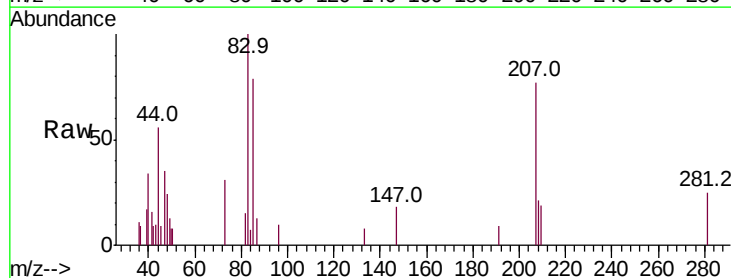
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



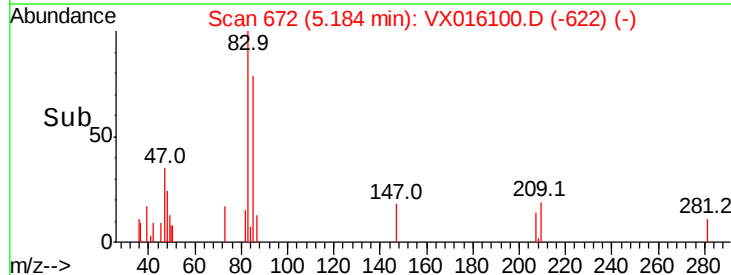
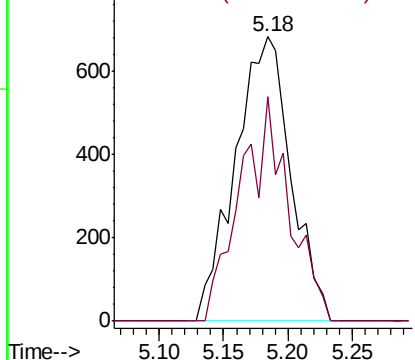
#30

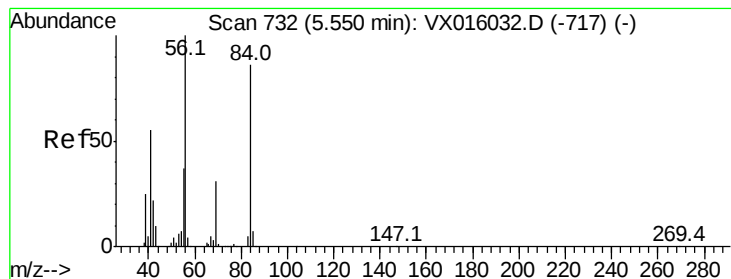
Chloroform
Concen: 0.376 ug/l
RT: 5.18 min Scan# 672
Delta R.T. 0.01 min
Lab File: VX016100.D
Acq: 07 May 2020 17:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	78.7	51.6	77.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0





#31

Cvclohexane

Concen: 1.183 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

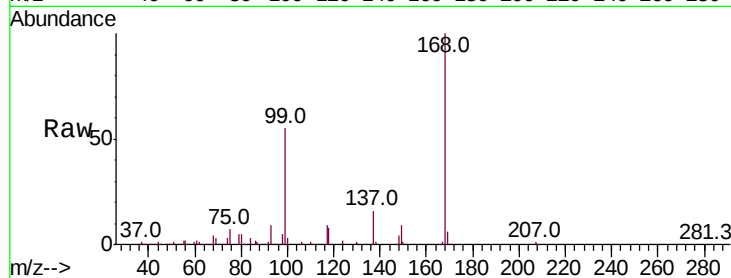
Tot Ion: 56 Resp: 5860

Ion Ratio Lower Upper

56 100

69 157.6 25.0 37.6#

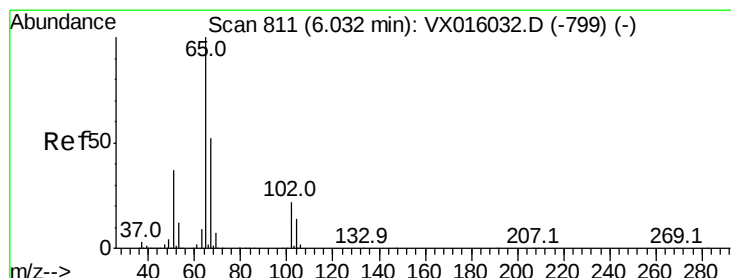
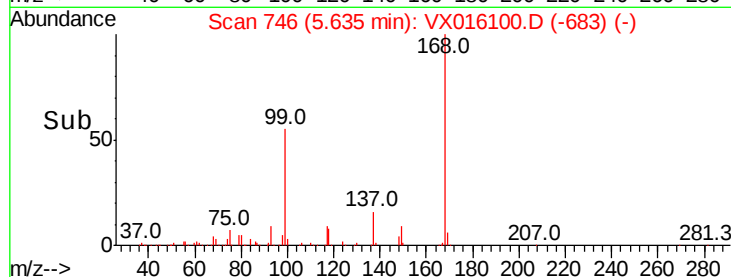
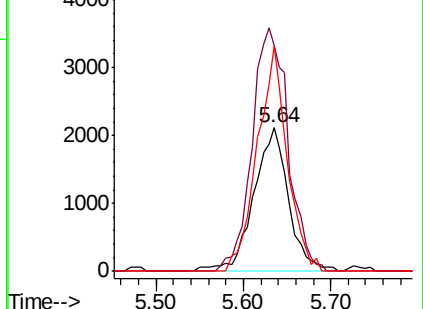
84 157.2 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.323 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016100.D

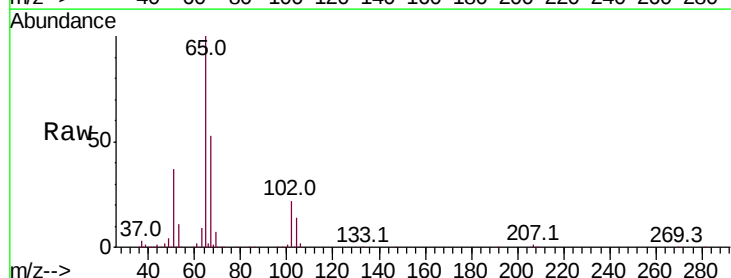
Acq: 07 May 2020 17:35

Tgt Ion: 65 Resp: 172362

Ion Ratio Lower Upper

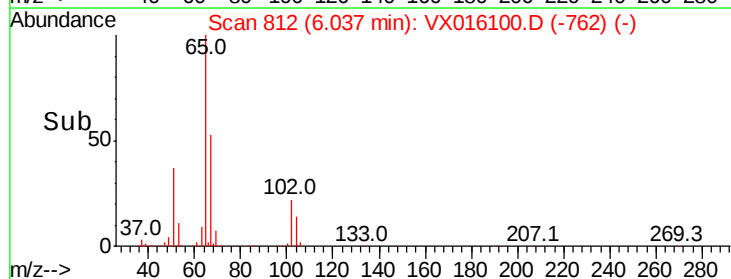
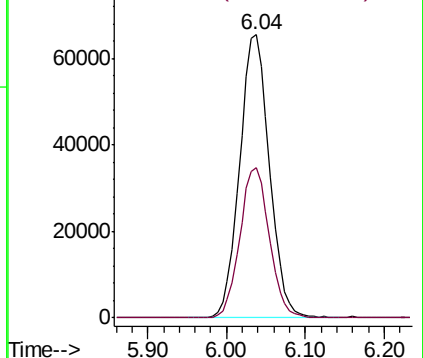
65 100

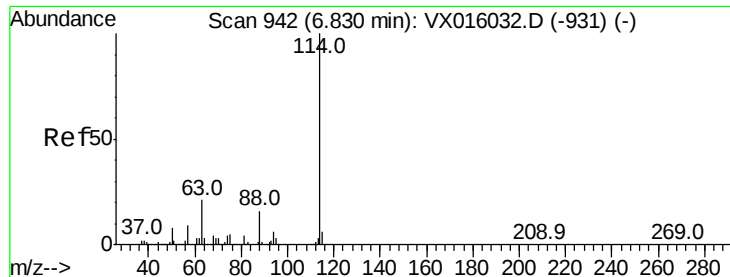
67 52.7 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

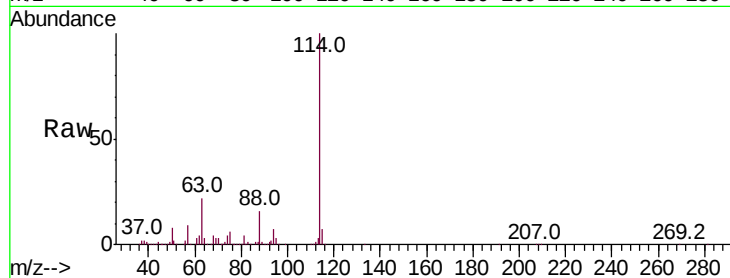
Tot Ion:114 Resp: 452346

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.8

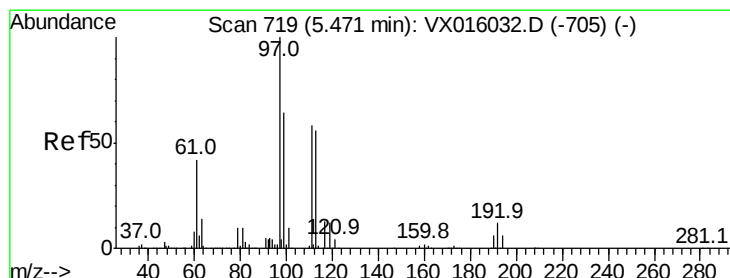
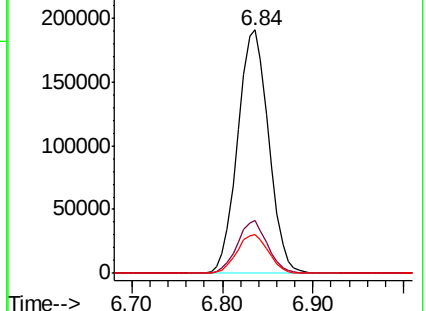
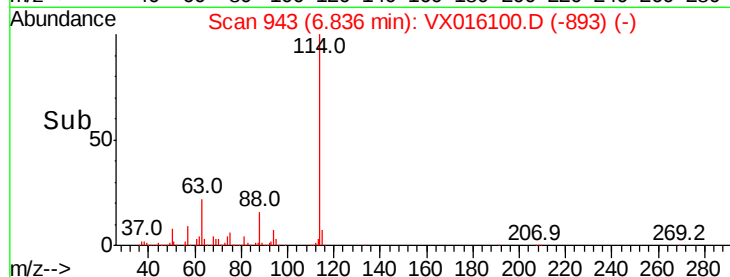
88 16.0 0.0 31.4



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: 47.463 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

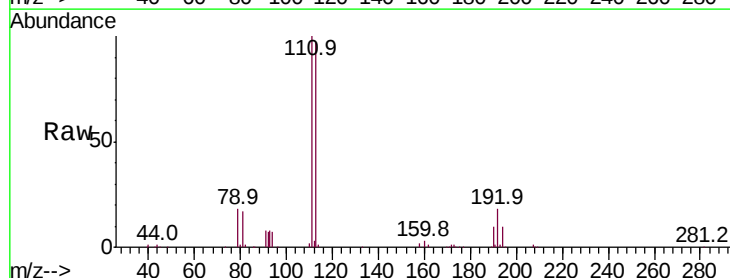
Tgt Ion:113 Resp: 136019

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

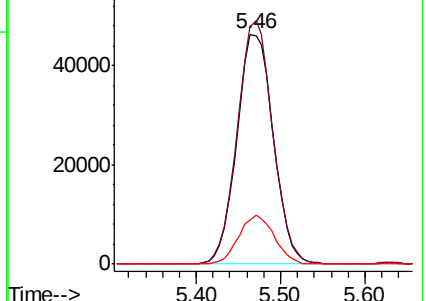
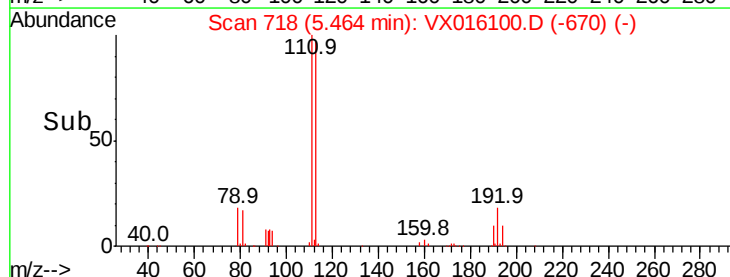
192 20.7 17.0 25.4

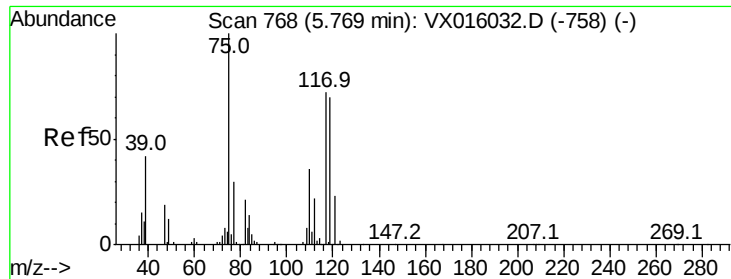


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.622 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

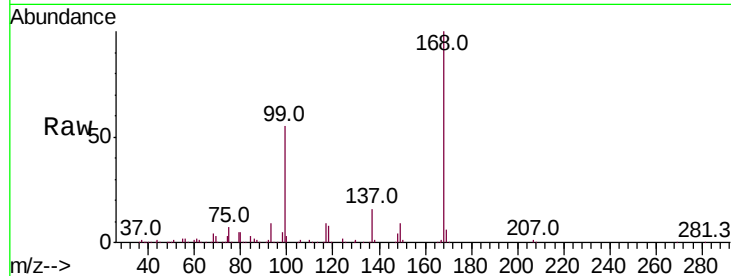
Tot Ion: 75 Resp: 20580

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

77 0.1 25.0 37.6#

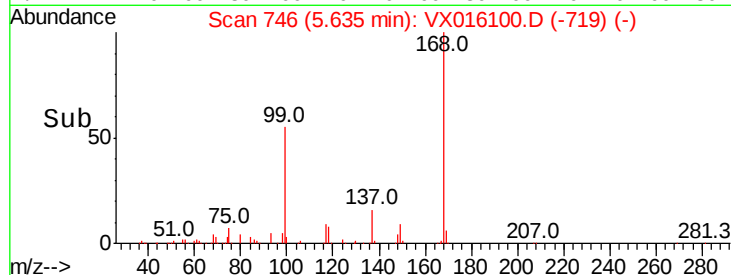


Abundance Ion 74.90 (74.60 to 75.60): VX016100.D (-719) (-)

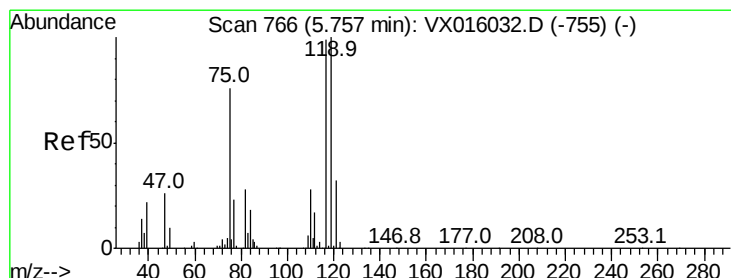
Ion 109.90 (109.60 to 110.60): VX016100.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016100.D (-719) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 5.992 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

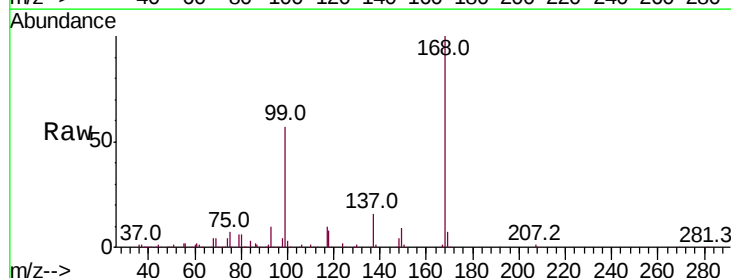
Tgt Ion: 117 Resp: 27120

Ion Ratio Lower Upper

117 100

119 4.5 80.3 120.5#

121 0.0 25.7 38.5#

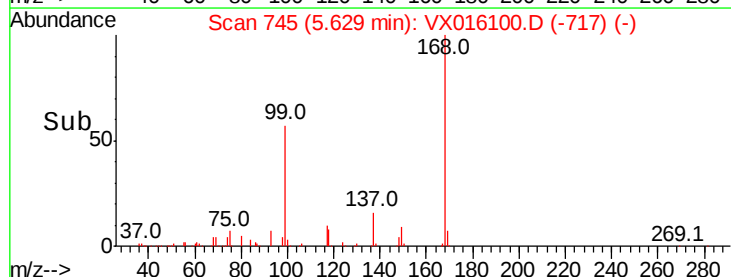


Abundance Ion 116.80 (116.50 to 117.50): VX016100.D (-717) (-)

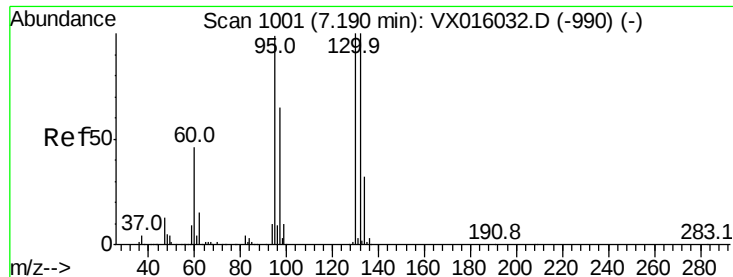
Ion 118.80 (118.50 to 119.50): VX016100.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016100.D (-717) (-)

Time-->



Time-->



#44

Trichloroethene

Concen: 7.739 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

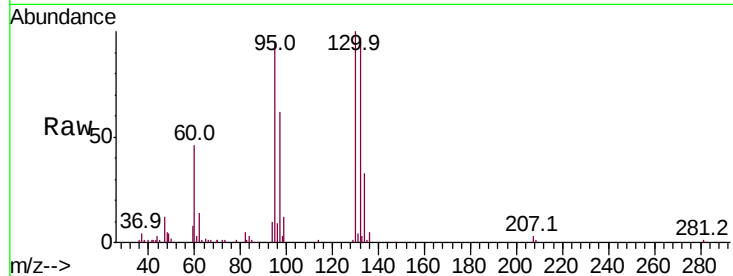
SS052MW717-200506

Tot Ion:130 Resp: 35818

Ion Ratio Lower Upper

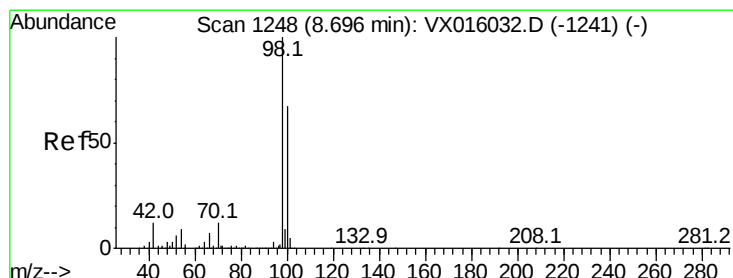
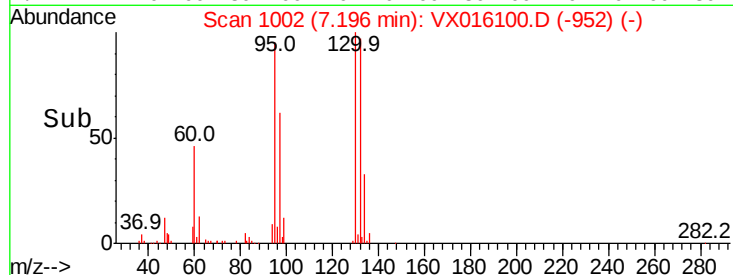
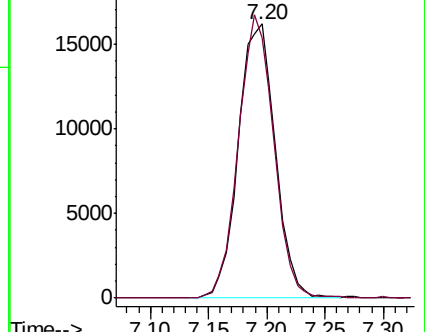
130 100

95 95.0 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: 50.593 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016100.D

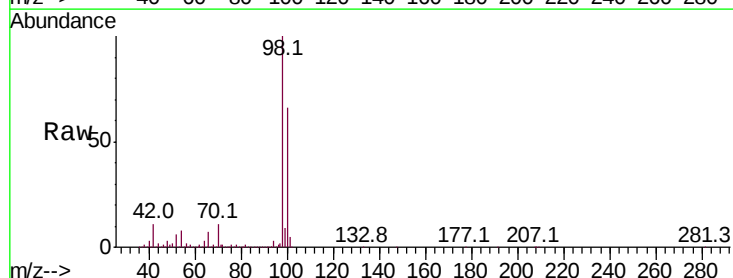
Acq: 07 May 2020 17:35

Tgt Ion: 98 Resp: 558652

Ion Ratio Lower Upper

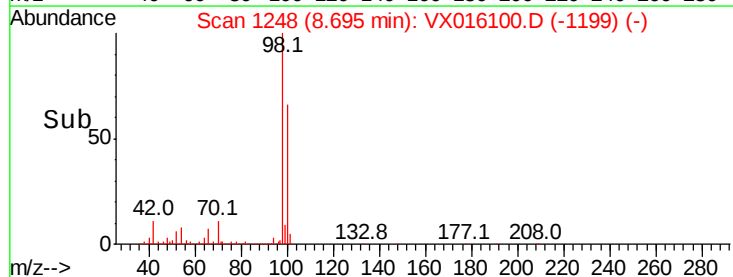
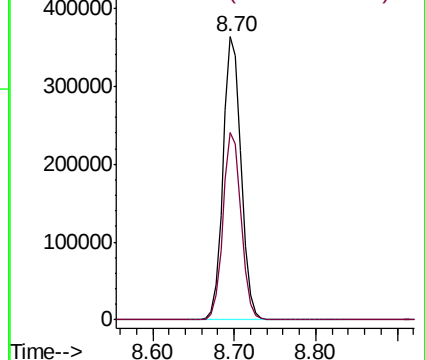
98 100

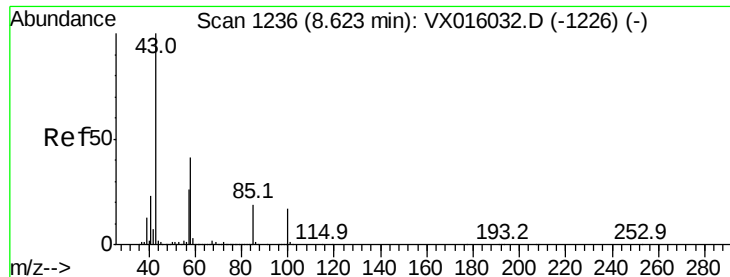
100 66.4 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.497 ug/l

RT: 8.69 min Scan# 1247

Delta R.T. 0.07 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

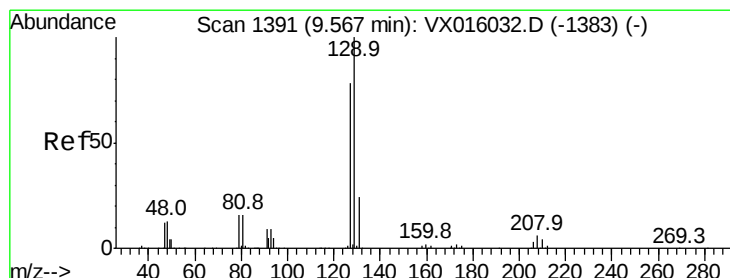
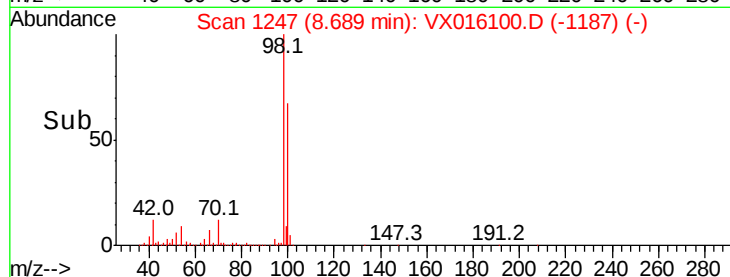
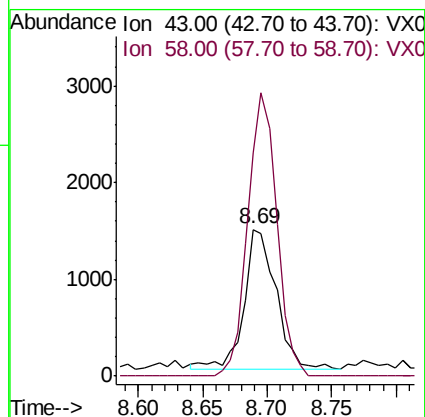
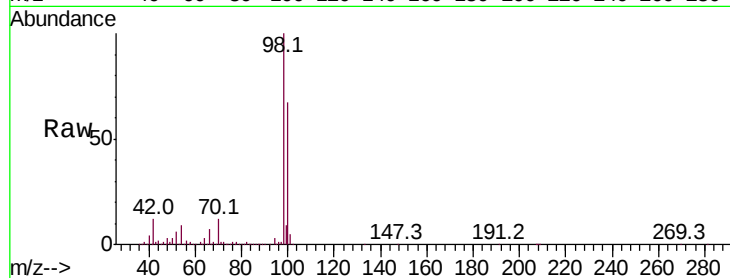
SS052MW717-200506

Tot Ion: 43 Resp: 2503

Ion Ratio Lower Upper

43 100

58 181.2 33.0 49.4#



#60

Dibromochloromethane

Concen: 1.325 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX016100.D

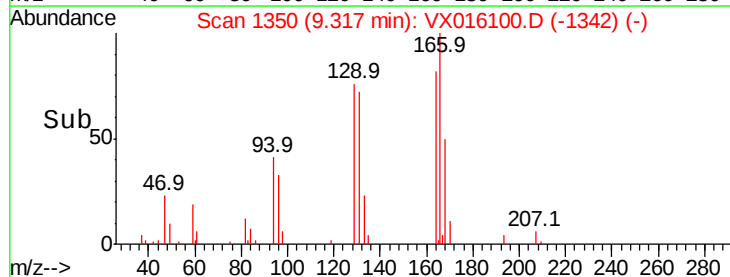
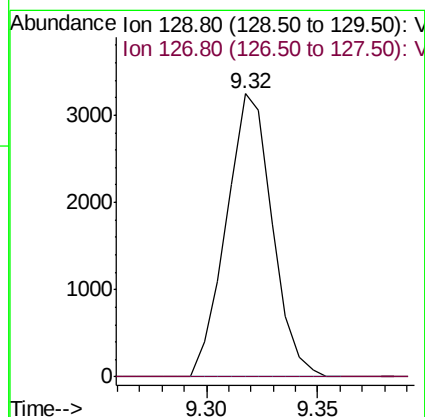
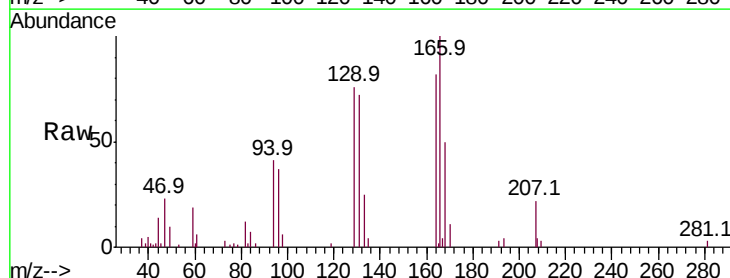
Acq: 07 May 2020 17:35

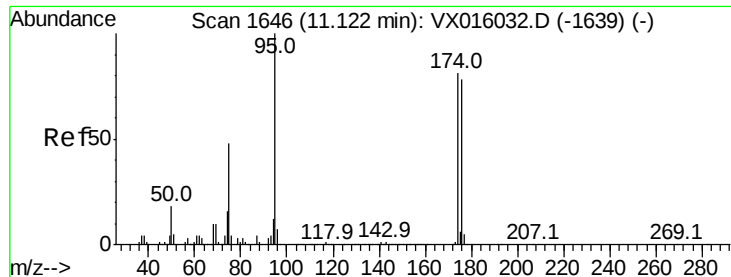
Tgt Ion: 129 Resp: 4662

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 53.409 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

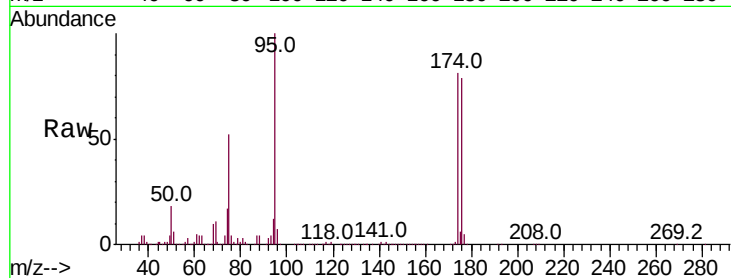
Tot Ion: 95 Resp: 224312

Ion Ratio Lower Upper

95 100

174 81.3 0.0 159.4

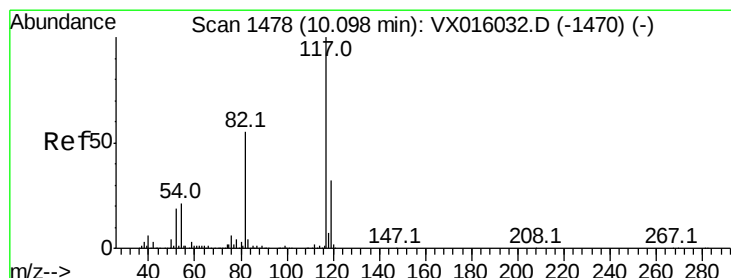
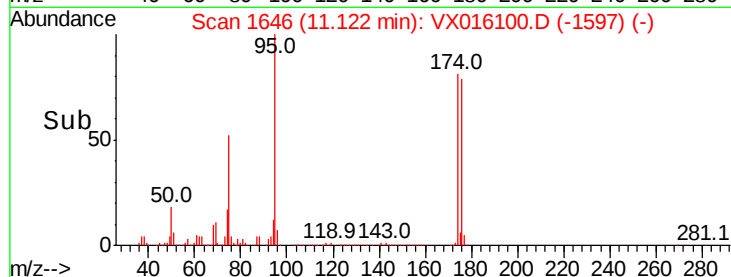
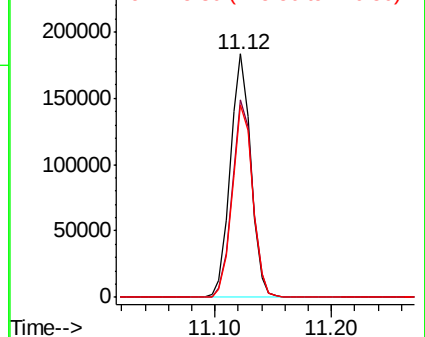
176 79.3 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX016100.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX016100.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX016100.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

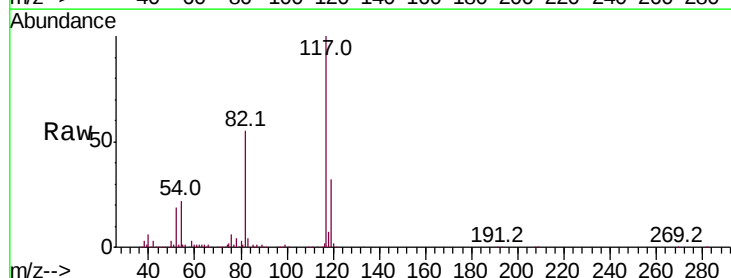
Tgt Ion: 117 Resp: 444349

Ion Ratio Lower Upper

117 100

82 54.7 44.4 66.6

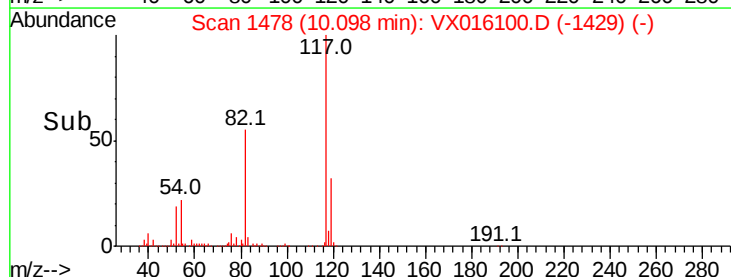
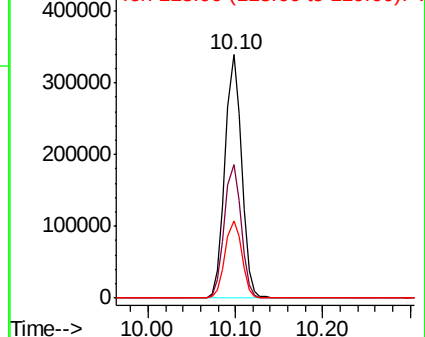
119 32.0 25.5 38.3

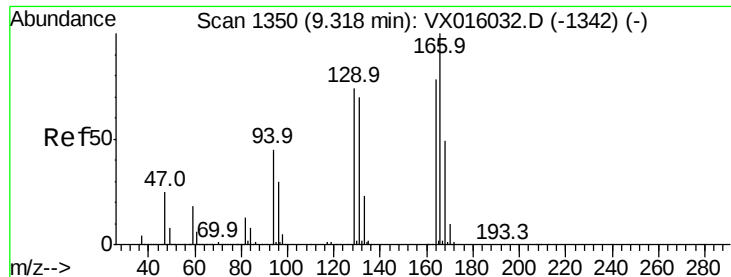


Abundance Ion 116.90 (116.60 to 117.60): VX016100.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX016100.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX016100.D (-1429) (-)





#64

Tetrachloroethene

Concen: 0.890 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

Tot Ion:164 Resp: 4856

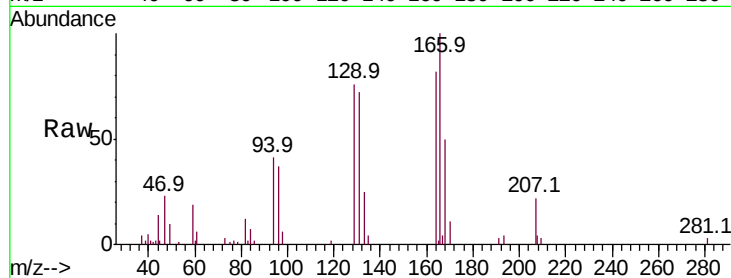
Ion Ratio Lower Upper

164 100

166 121.6 102.9 154.3

129 92.3 76.1 114.1

131 87.1 71.9 107.9



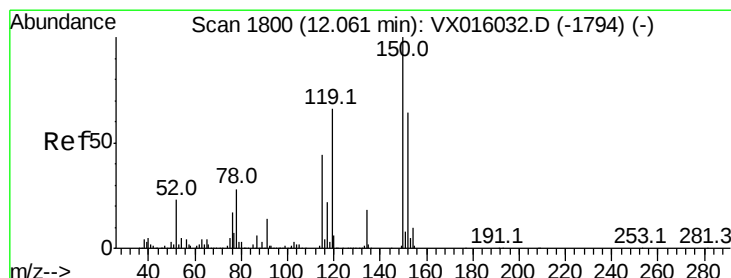
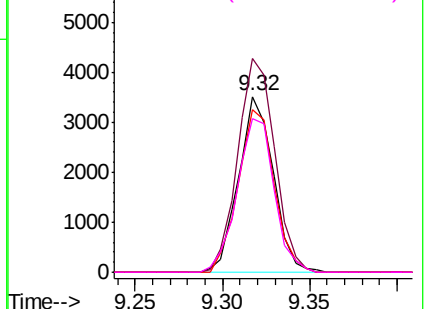
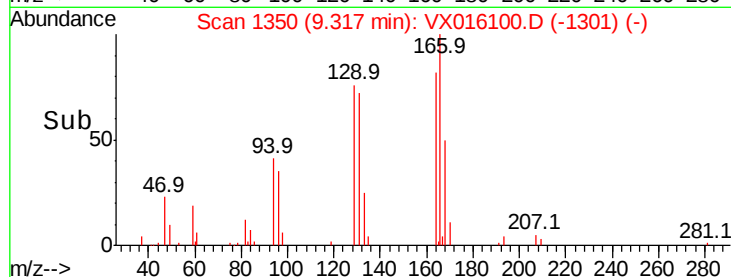
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

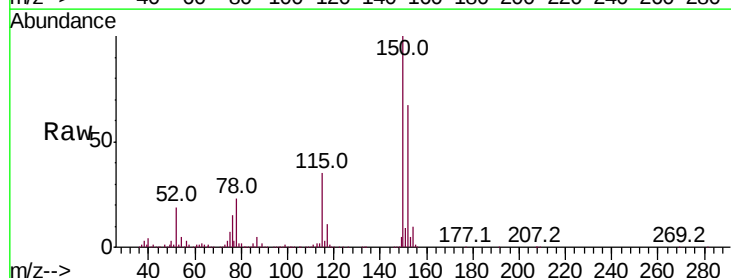
Tgt Ion:152 Resp: 235946

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

150 155.0 0.0 352.2

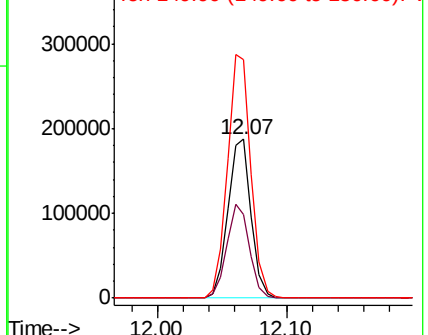
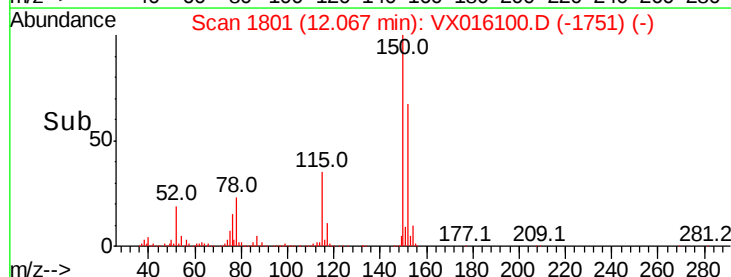


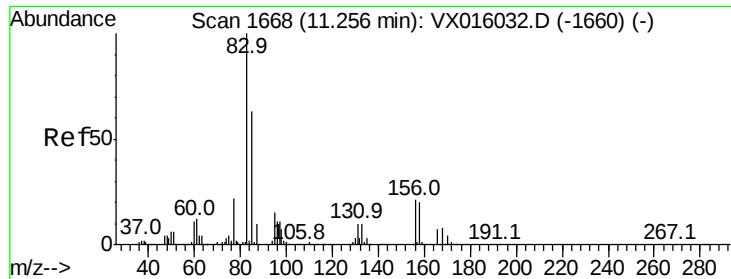
Abundance

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: 2.109 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

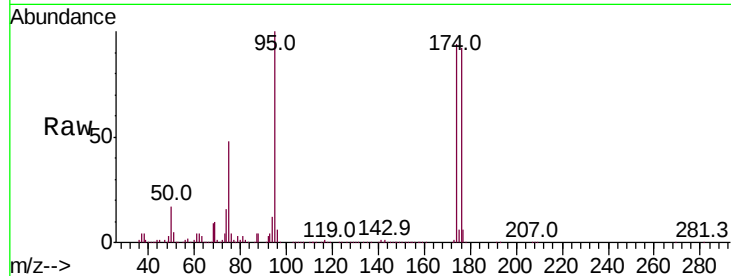
Tot Ion: 83 Resp: 191

Ion Ratio Lower Upper

83 100

131 151.3 5.1 15.4#

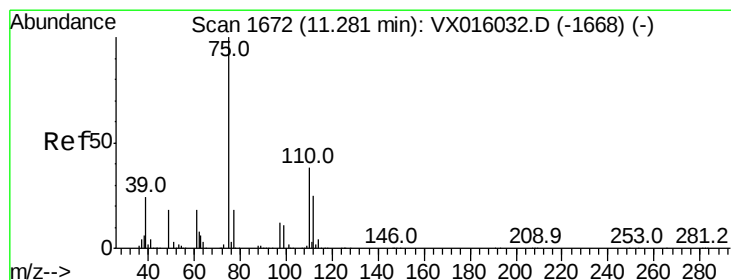
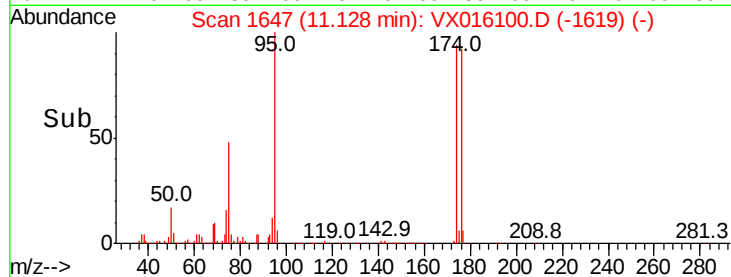
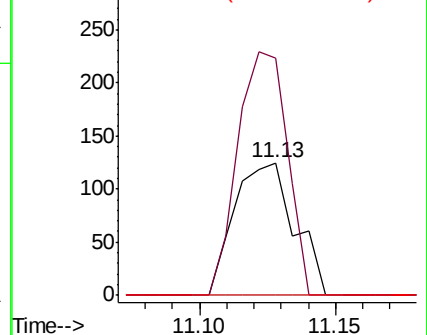
85 0.0 32.0 96.0#



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: 21.234 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016100.D

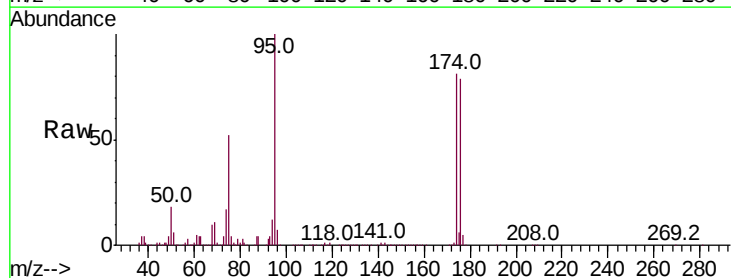
Acq: 07 May 2020 17:35

Tgt Ion: 75 Resp: 113689

Ion Ratio Lower Upper

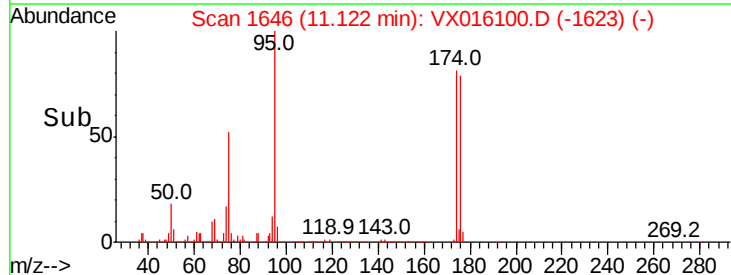
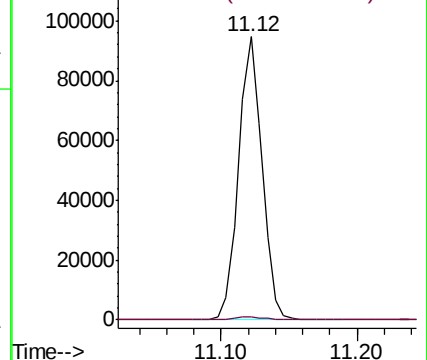
75 100

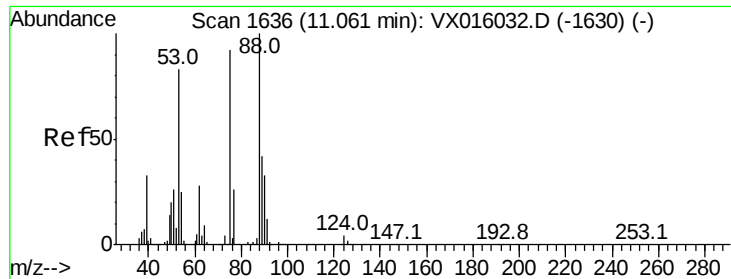
77 1.4 21.2 63.6#



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: 50.602 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016100.D

Acq: 07 May 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

SS052MW717-200506

Tot Ion: 75 Resp: 113689

Ion Ratio Lower Upper

75 100

53 0.1 73.1 109.7#

89 0.0 36.7 55.1#

