

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\
 Data File : VX016286.D
 Acq On : 15 May 2020 17:19
 Operator : JC/SP
 Sample : L2649-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0685

Quant Time: May 16 06:45:33 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	240647	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	391290	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	391426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	202403	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	143945	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
35) Dibromofluoromethane	5.47	113	114516	46.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.38%	
50) Toluene-d8	8.70	98	495236	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
62) 4-Bromofluorobenzene	11.12	95	199061	54.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.58%	

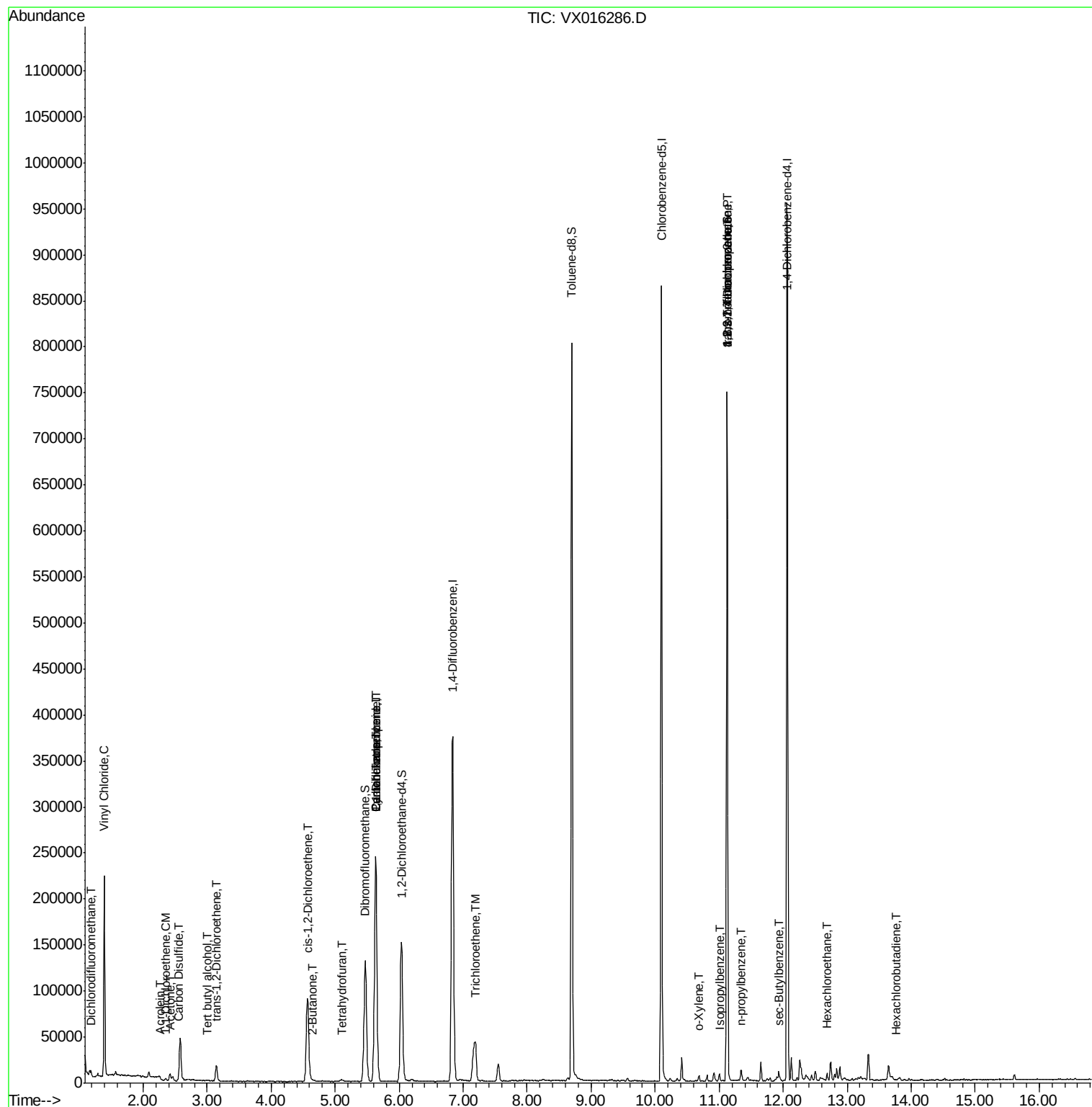
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	1660	0.652	ug/l	97
4) Vinyl Chloride	1.39	62	124165	39.342	ug/l	100
11) Tert butyl alcohol	3.01	59	883	1.103	ug/l #	78
12) 1,1-Dichloroethene	2.35	96	740	0.296	ug/l	83
13) Acrolein	2.28	56	313	0.625	ug/l #	14
16) Acetone	2.42	43	8207	5.808	ug/l	96
17) Carbon Disulfide	2.56	76	3924	0.317	ug/l #	92
21) trans-1,2-Dichloroethene	3.15	96	7157	2.567	ug/l	90
25) 2-Butanone	4.65	43	1373	0.603	ug/l #	83
27) cis-1,2-Dichloroethene	4.57	96	60151	19.737	ug/l	87
29) Tetrahydrofuran	5.10	42	1156	0.766	ug/l #	76
31) Cyclohexane	5.63	56	4327	0.984	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17545	4.555	ug/l #	50
38) Carbon Tetrachloride	5.63	117	23253	5.939	ug/l #	14
44) Trichloroethene	7.20	130	14522	3.627	ug/l	90
69) o-Xylene	10.69	106	1371	0.260	ug/l	86
73) Isopropylbenzene	11.01	105	3936	0.267	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.13	83	120	2.093	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	96240	20.954	ug/l #	35
78) n-propylbenzene	11.34	91	6101	0.356	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	96240	49.934	ug/l #	13
85) sec-Butylbenzene	11.93	105	4809	0.332	ug/l	83
90) Hexachloroethane	12.69	117	2576	1.117	ug/l #	10
94) Hexachlorobutadiene	13.77	225	22	0.534	ug/l #	18

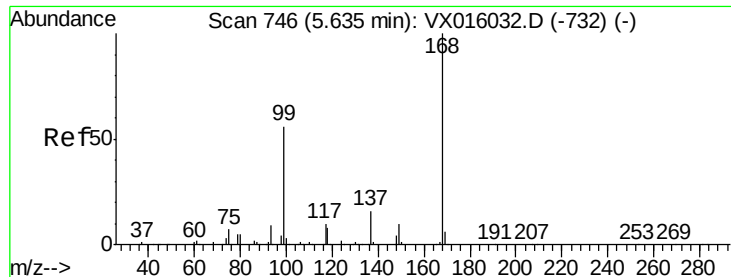
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 16 06:45:33 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: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

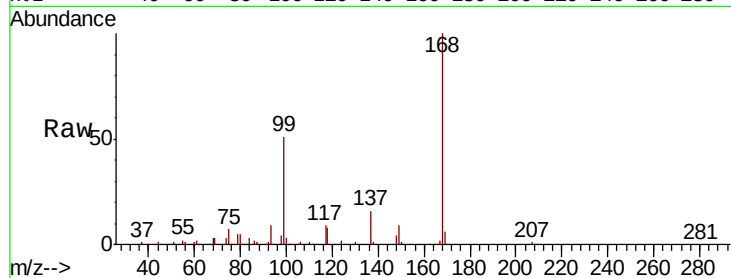
S32-0685

Tot Ion:168 Resp: 240647

Ion Ratio Lower Upper

168 100

99 51.3 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

80000

60000

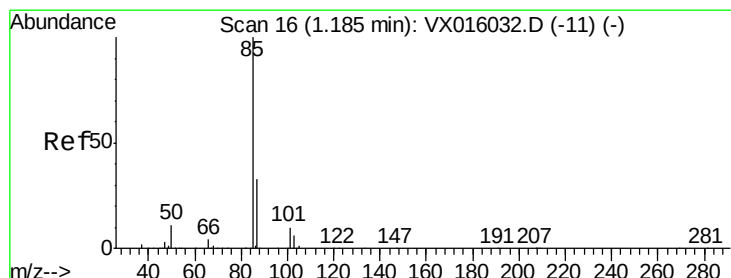
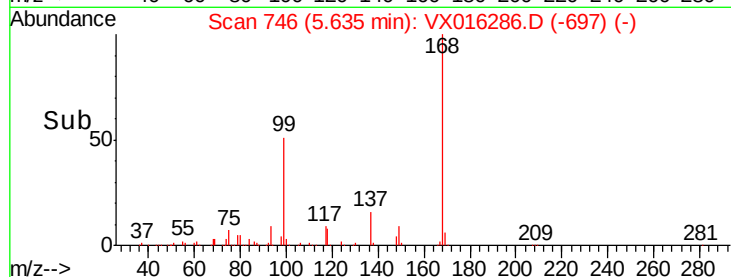
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.652 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX016286.D

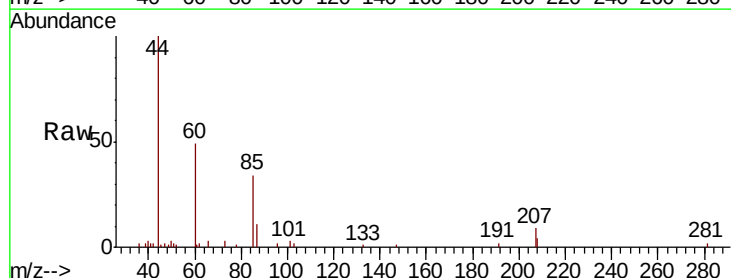
Acq: 15 May 2020 17:19

Tgt Ion: 85 Resp: 1660

Ion Ratio Lower Upper

85 100

87 31.1 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

2000

1500

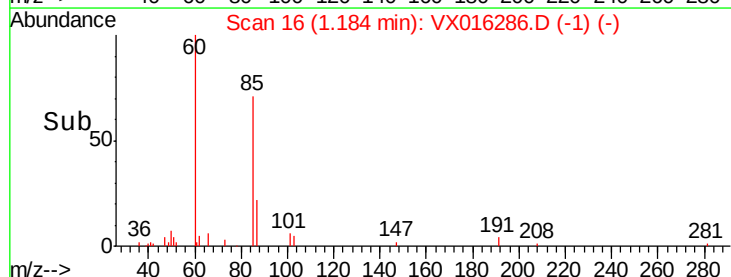
1000

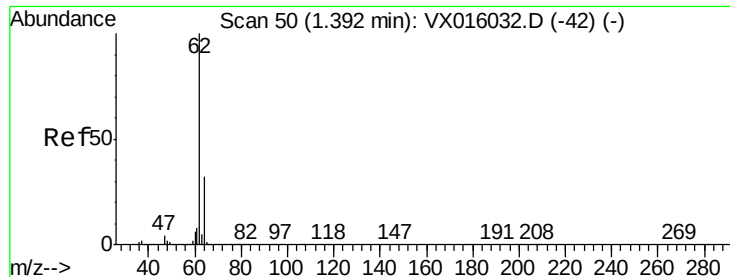
500

0

1.15 1.20

Time-->





#4

Vinyl Chloride

Concen: 39.342 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

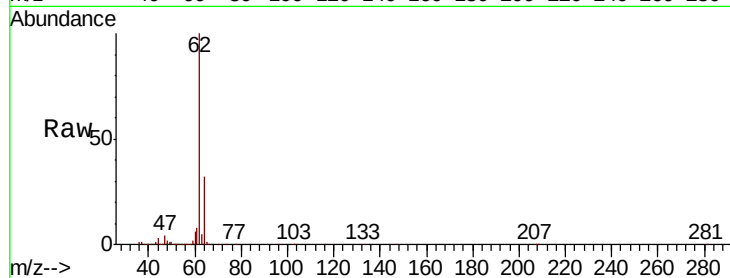
S32-0685

Tot Ion: 62 Resp: 124165

Ion Ratio Lower Upper

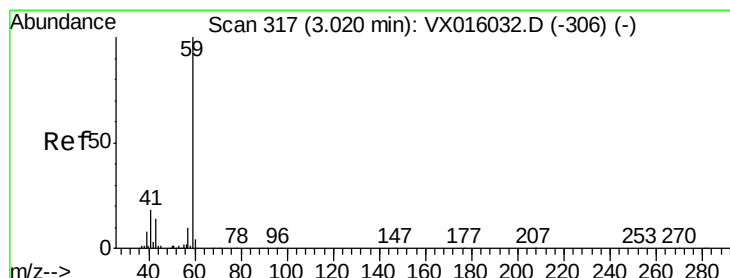
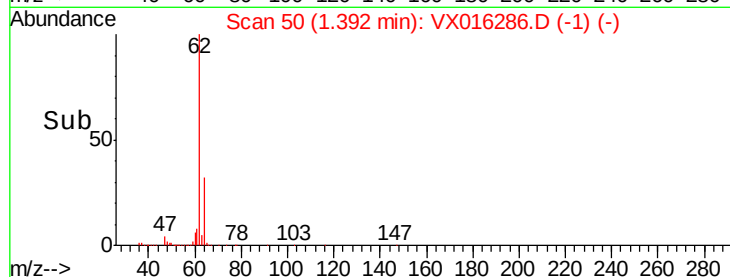
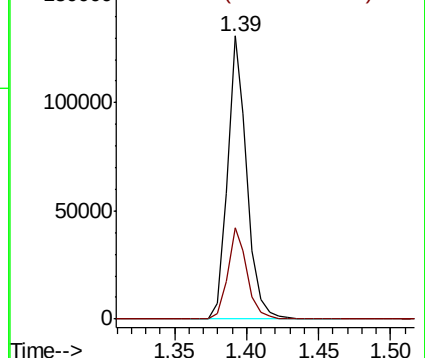
62 100

64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#11

Tert butyl alcohol

Concen: 1.103 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016286.D

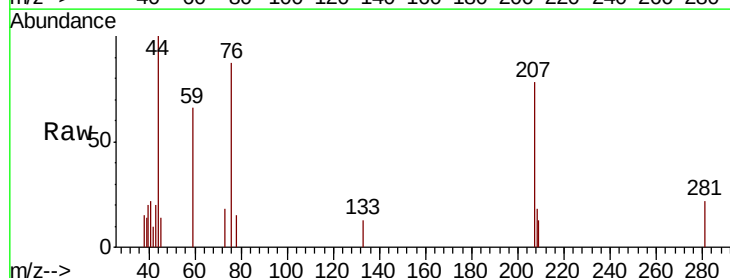
Acq: 15 May 2020 17:19

Tgt Ion: 59 Resp: 883

Ion Ratio Lower Upper

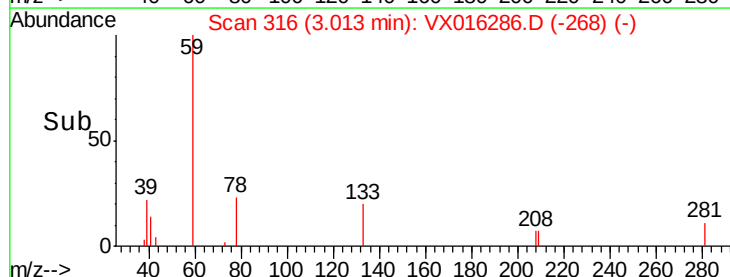
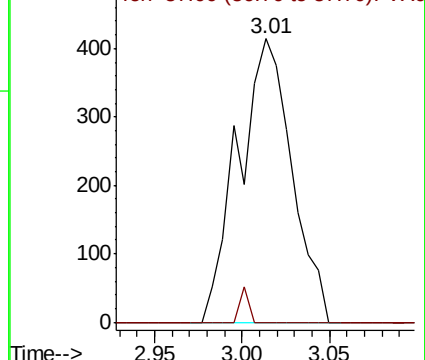
59 100

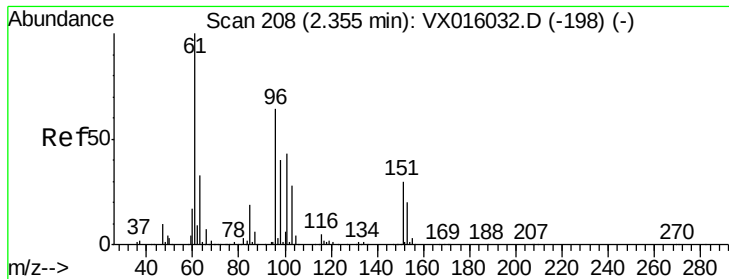
57 2.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

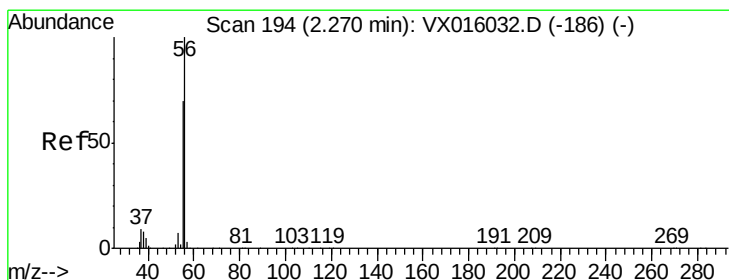
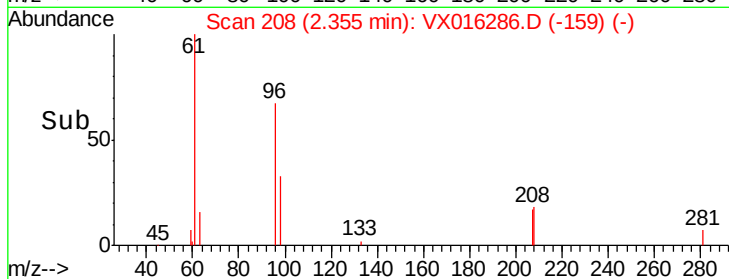
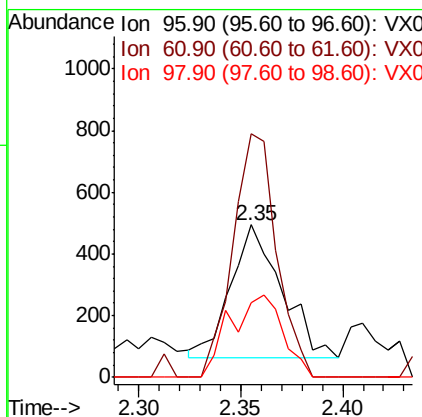
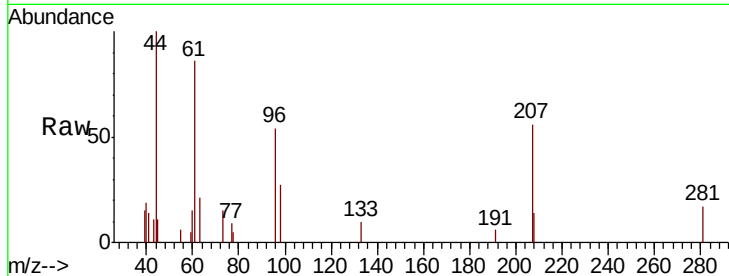




#12
 1,1-Dichloroethene
 Concen: 0.296 ug/l
 RT: 2.35 min Scan# 208
 Delta R.T. -0.00 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

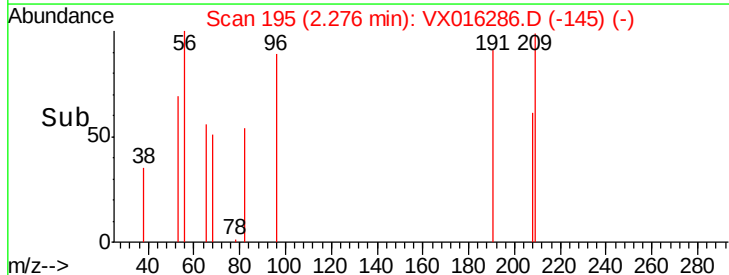
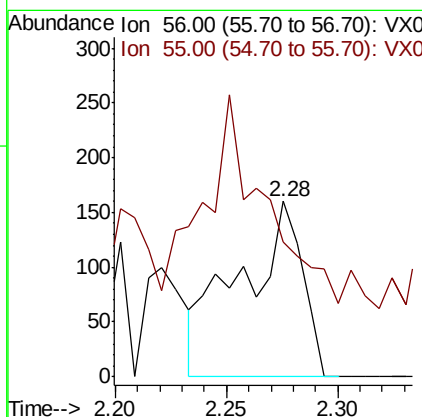
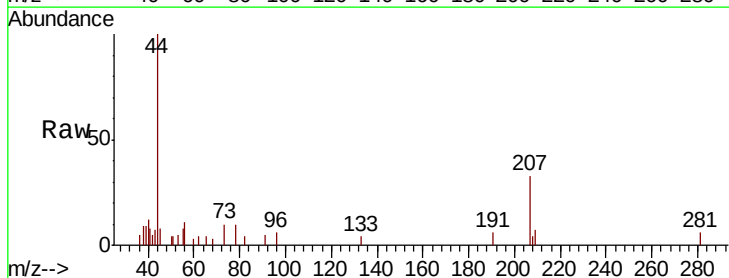
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0685

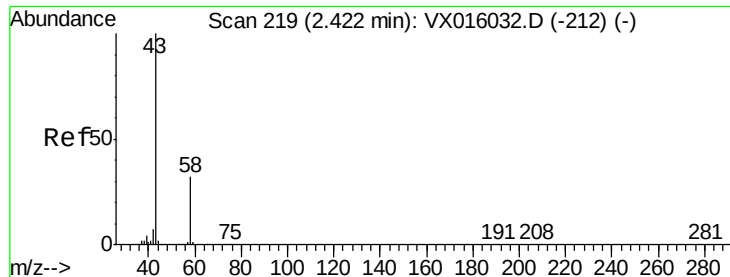
Tot Ion: 96 Resp: 740
 Ion Ratio Lower Upper
 96 100
 61 183.9 124.8 187.2
 98 56.4 49.7 74.5



#13
 Acrolein
 Concen: 0.625 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

Tgt Ion: 56 Resp: 313
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.5 84.7#





#16

Acetone

Concen: 5.808 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

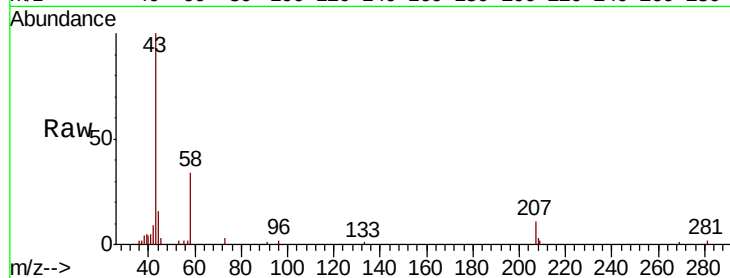
S32-0685

Tot Ion: 43 Resp: 8207

Ion Ratio Lower Upper

43 100

58 33.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.42

5000

4000

3000

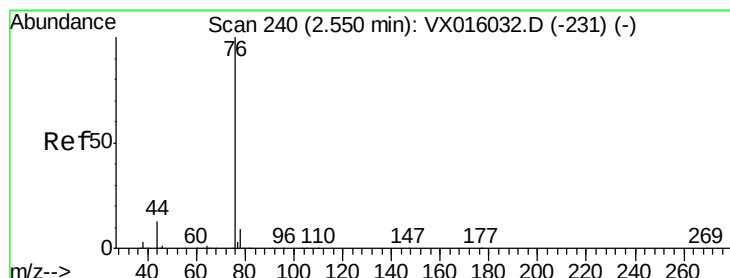
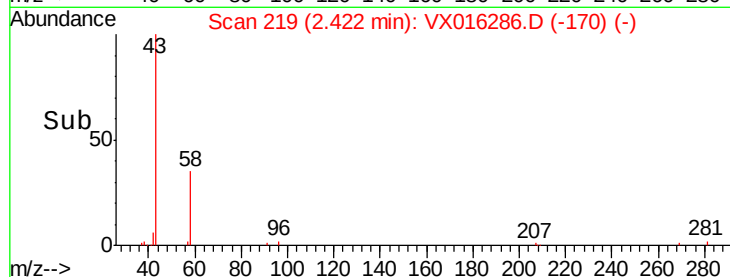
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.317 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016286.D

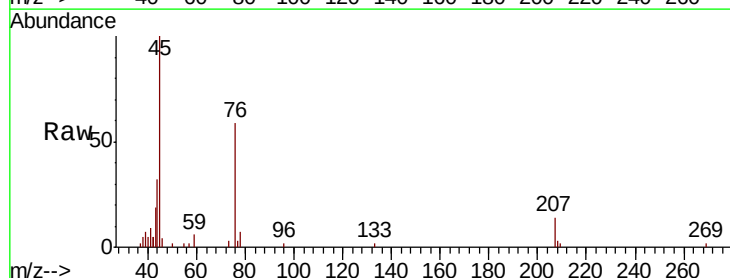
Acq: 15 May 2020 17:19

Tgt Ion: 76 Resp: 3924

Ion Ratio Lower Upper

76 100

78 12.4 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

2000

1500

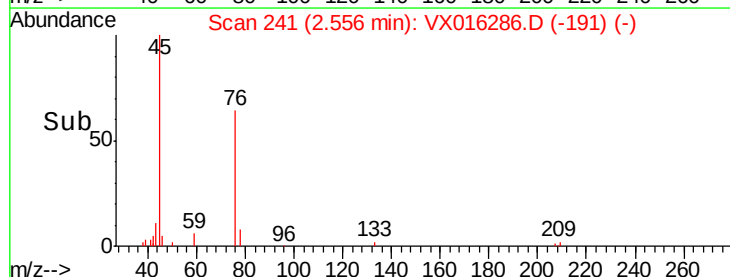
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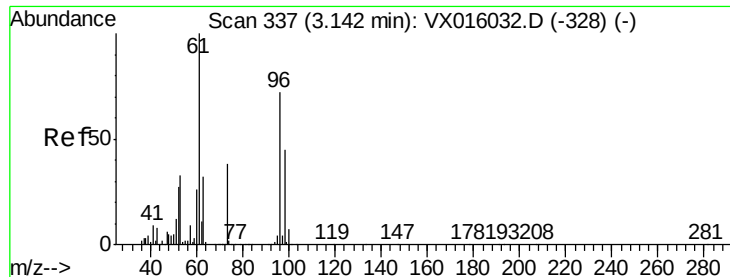
500

0

Time-->

2.50 2.55 2.60





#21

trans-1,2-Dichloroethene

Concen: 2.567 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

S32-0685

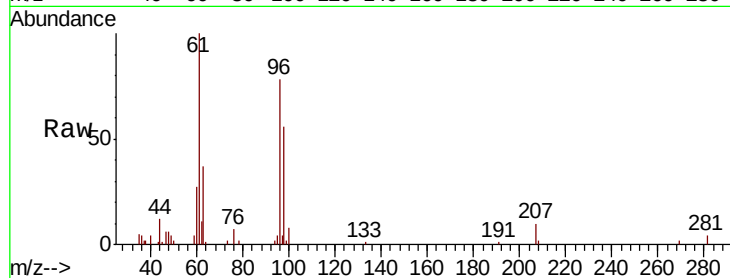
Tot Ion: 96 Resp: 7157

Ion Ratio Lower Upper

96 100

61 128.9 111.2 166.8

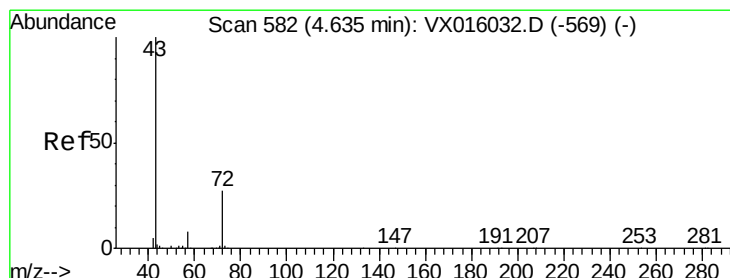
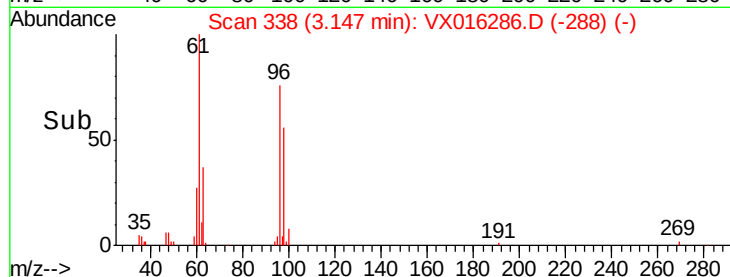
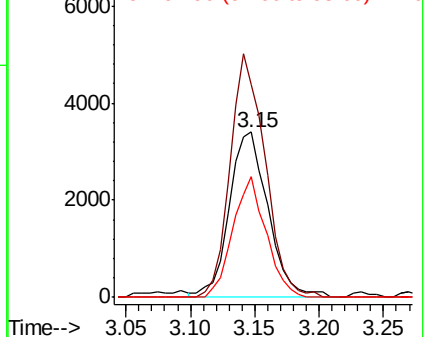
98 72.7 50.2 75.4



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



#25

2-Butanone

Concen: 0.603 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016286.D

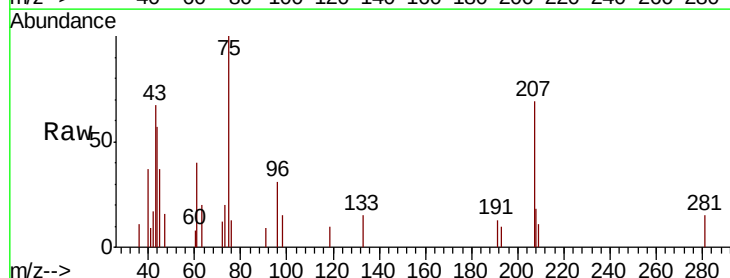
Acq: 15 May 2020 17:19

Tgt Ion: 43 Resp: 1373

Ion Ratio Lower Upper

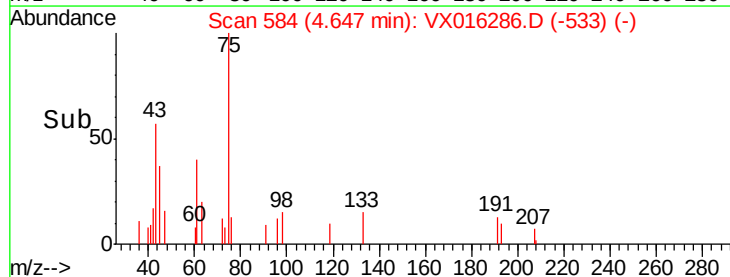
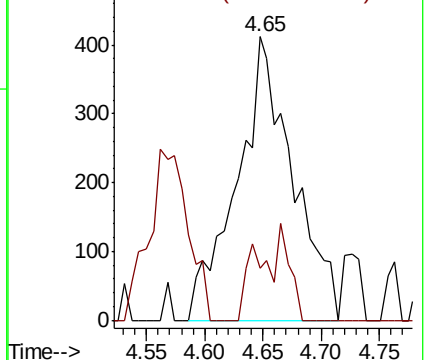
43 100

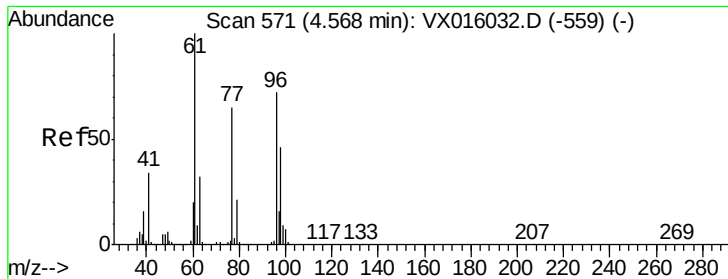
72 18.4 21.8 32.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



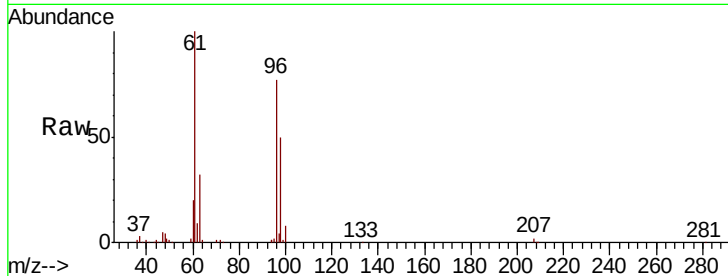


#27

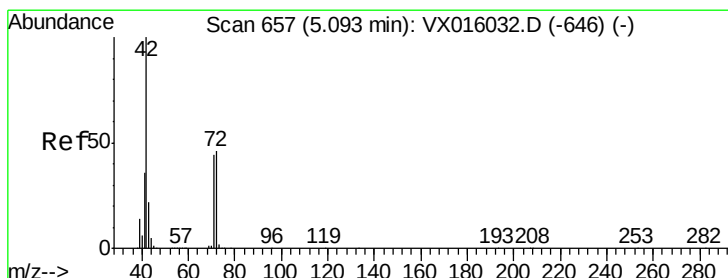
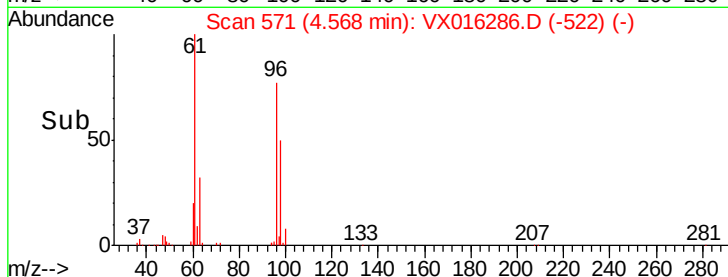
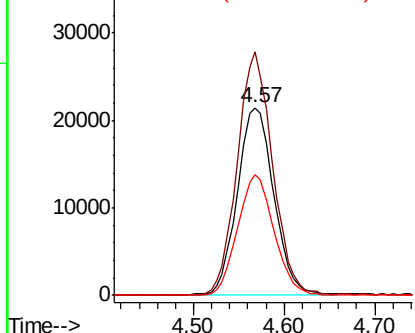
cis-1,2-Dichloroethene
 Concen: 19.737 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. -0.00 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

Instrument :
 MSVOA_X
 ClientSampled :
 S32-0685

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.7	0.0	296.2
98	63.7	0.0	129.4



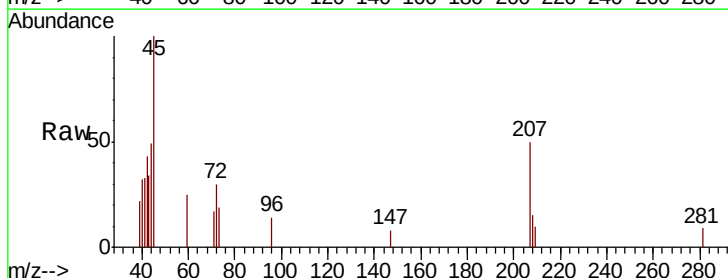
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



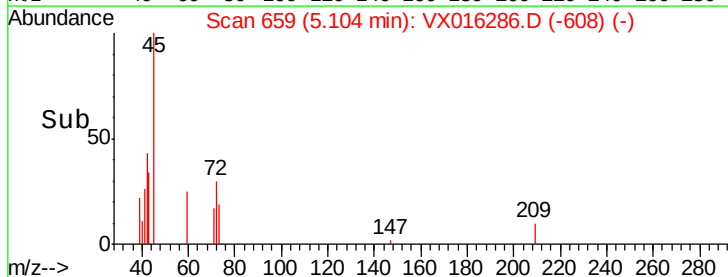
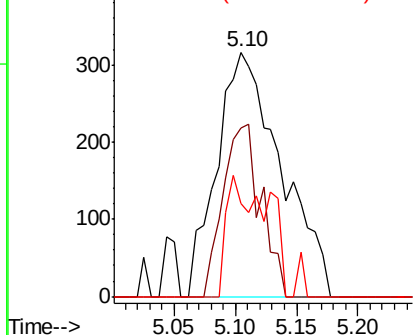
#29

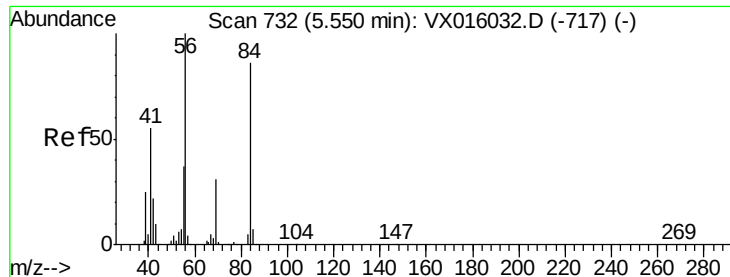
Tetrahydrofuran
 Concen: 0.766 ug/l
 RT: 5.10 min Scan# 659
 Delta R.T. 0.01 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.6	37.1	55.7
71	15.7	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

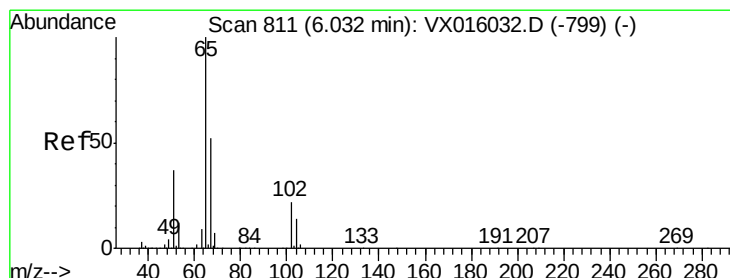
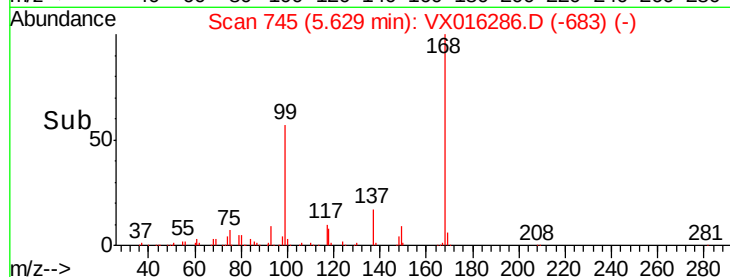
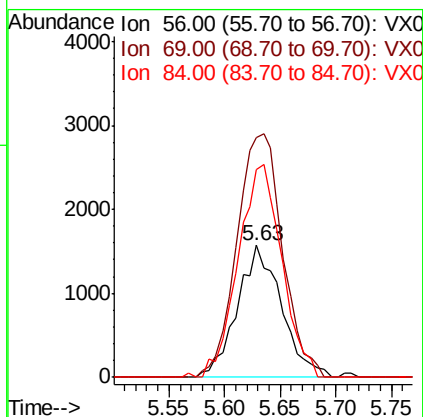
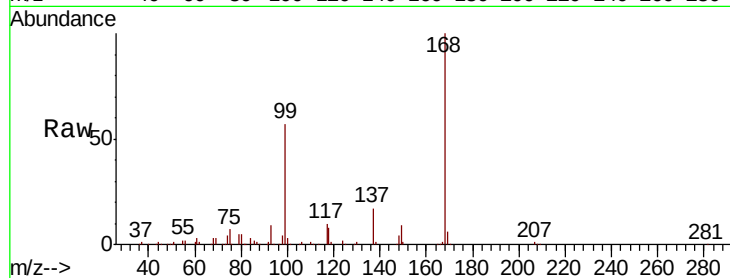




#31
Cyclohexane
Concen: 0.984 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX016286.D
Acq: 15 May 2020 17:19

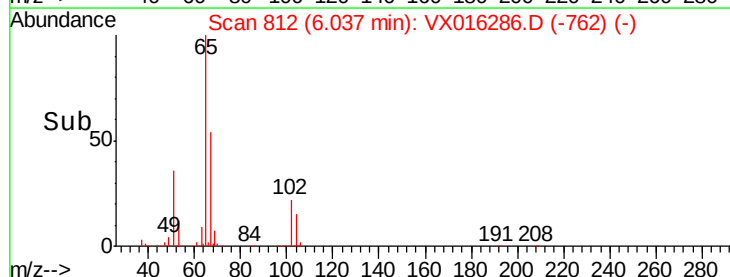
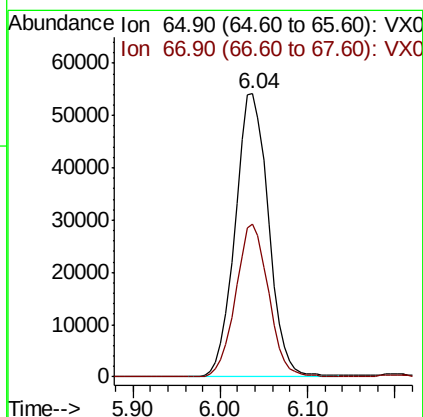
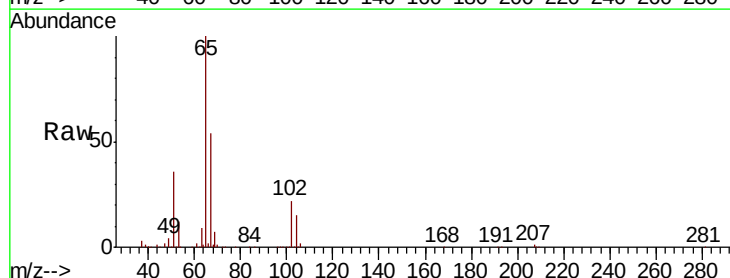
Instrument :
MSVOA_X
ClientSampleId :
S32-0685

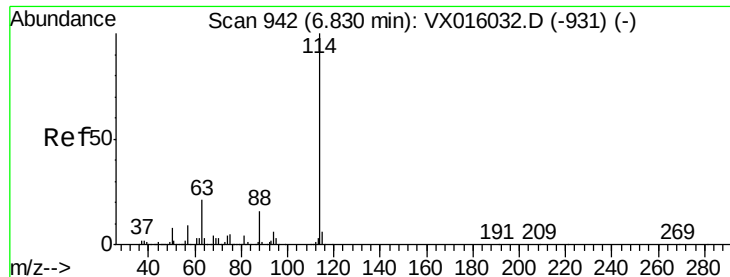
Tot Ion: 56 Resp: 4327
Ion Ratio Lower Upper
56 100
69 181.8 25.0 37.6#
84 158.1 69.0 103.6#



#33
1,2-Dichloroethane-d4
Concen: 45.456 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX016286.D
Acq: 15 May 2020 17:19

Tgt Ion: 65 Resp: 143945
Ion Ratio Lower Upper
65 100
67 53.2 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: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

S32-0685

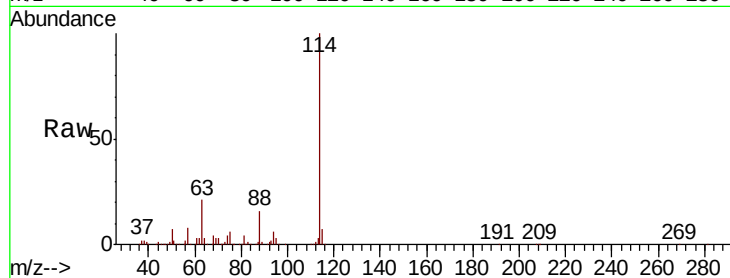
Tot Ion:114 Resp: 391290

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.8

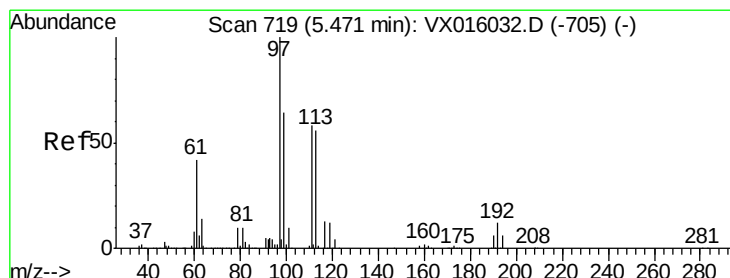
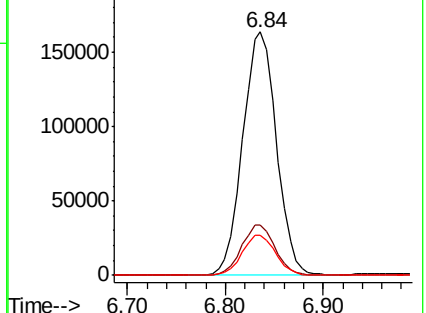
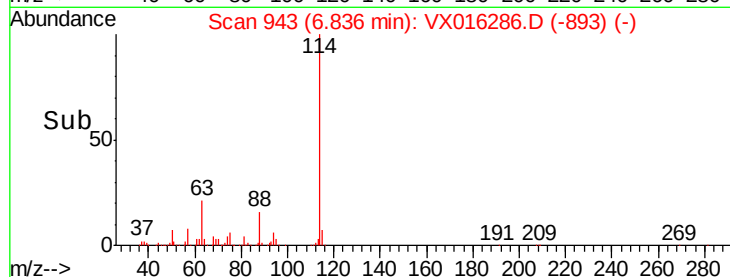
88 16.5 0.0 31.4



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: 46.195 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

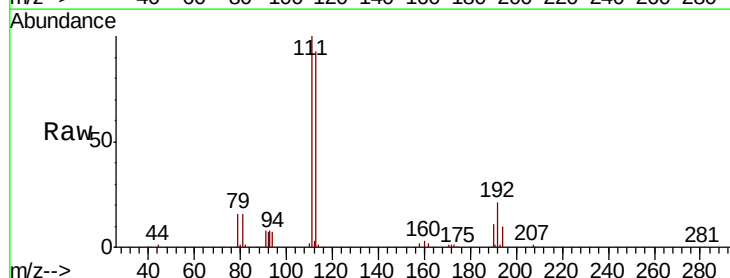
Tgt Ion:113 Resp: 114516

Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

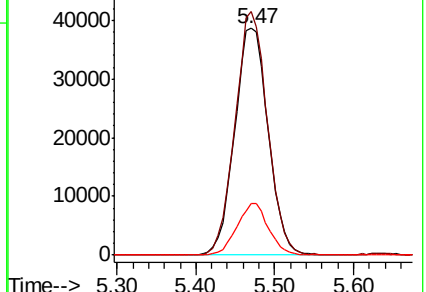
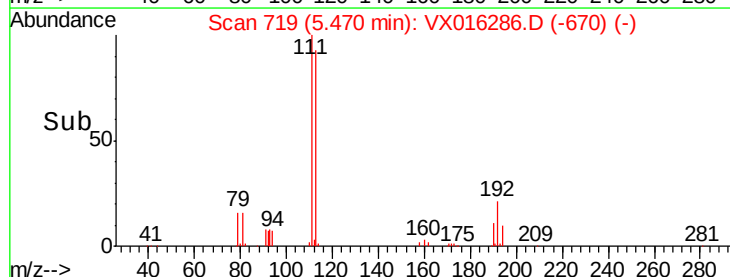
192 21.3 17.0 25.4

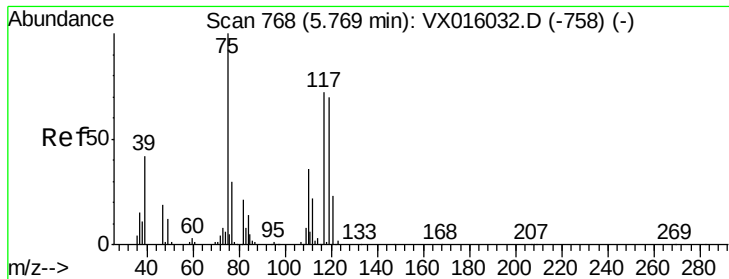


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

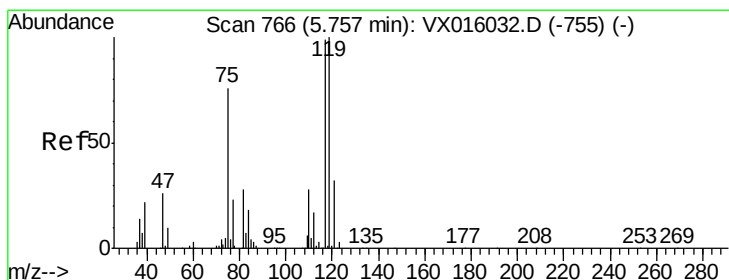
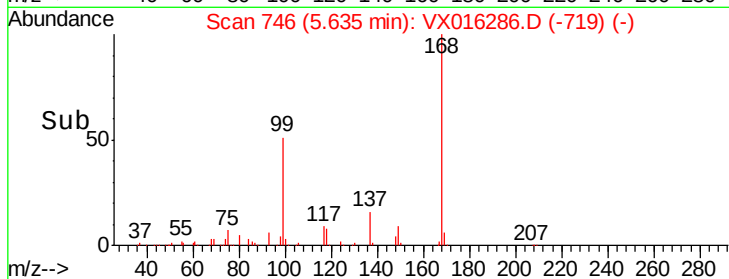
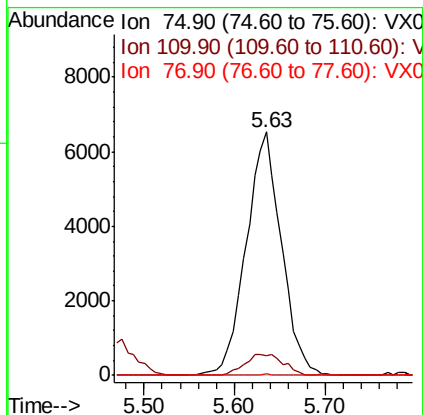
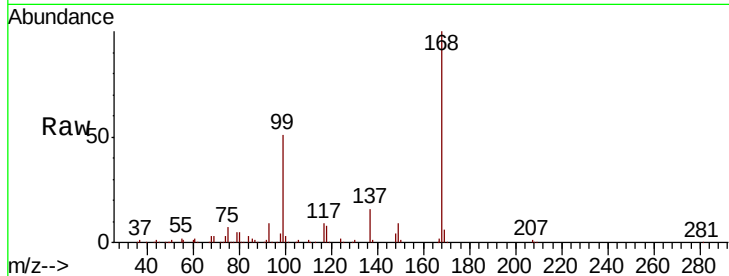




#36
 1,1-Dichloropropene
 Concen: 4.555 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

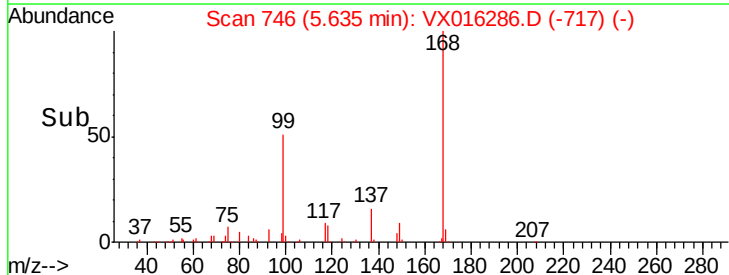
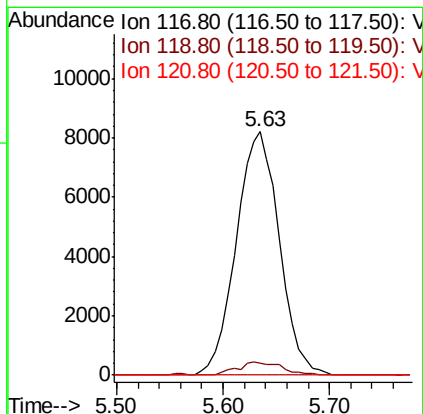
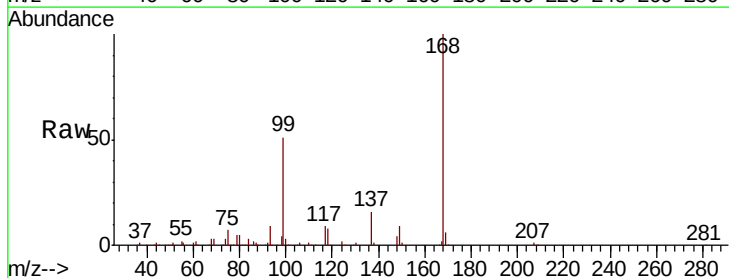
Instrument :
 MSVOA_X
 ClientSampled :
 S32-0685

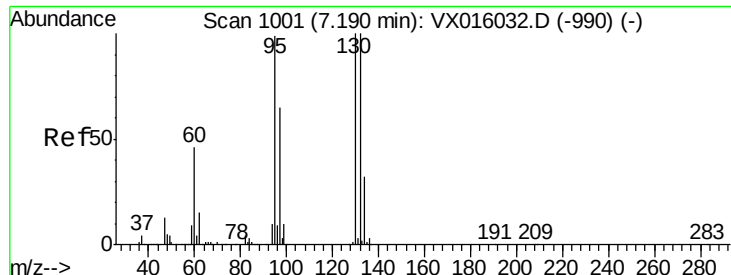
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.1	54.1#
77	0.1	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 5.939 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	80.3	120.5#
121	0.0	25.7	38.5#





#44

Trichloroethene

Concen: 3.627 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

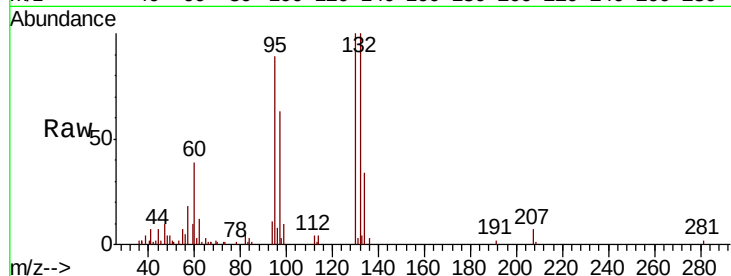
S32-0685

Tot Ion:130 Resp: 14522

Ion Ratio Lower Upper

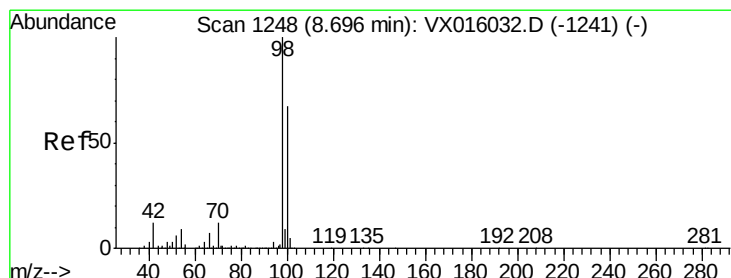
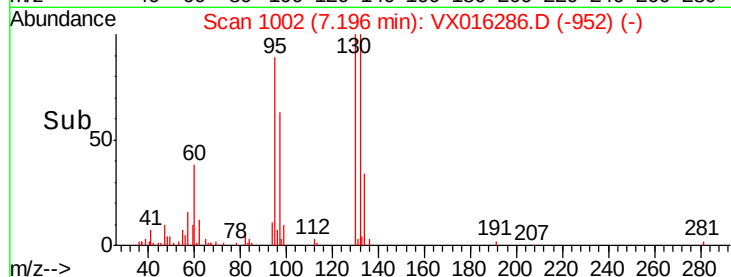
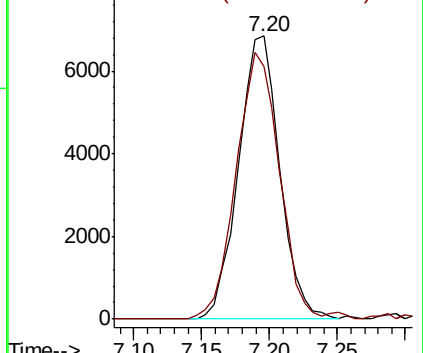
130 100

95 89.2 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: 51.848 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016286.D

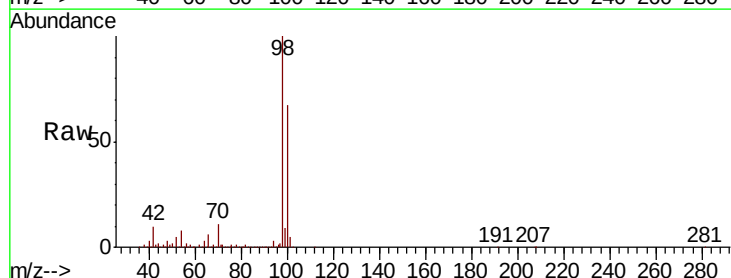
Acq: 15 May 2020 17:19

Tgt Ion: 98 Resp: 495236

Ion Ratio Lower Upper

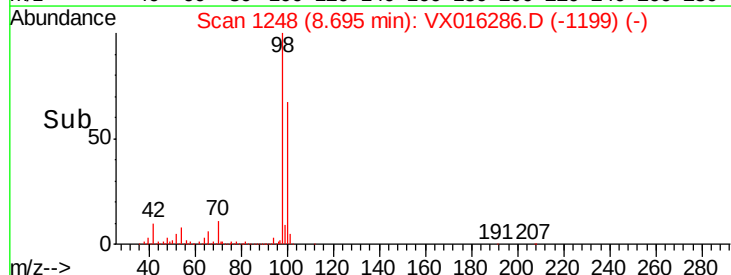
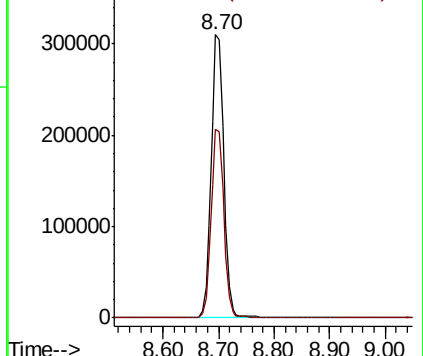
98 100

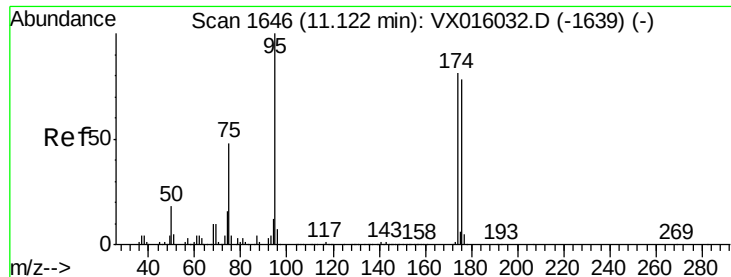
100 66.7 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 54.792 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

S32-0685

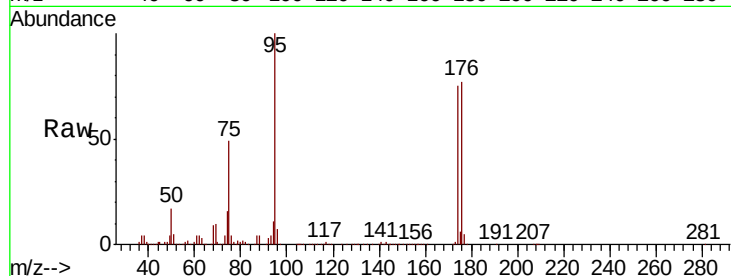
Tot Ion: 95 Resp: 199061

Ion Ratio Lower Upper

95 100

174 78.8 0.0 159.4

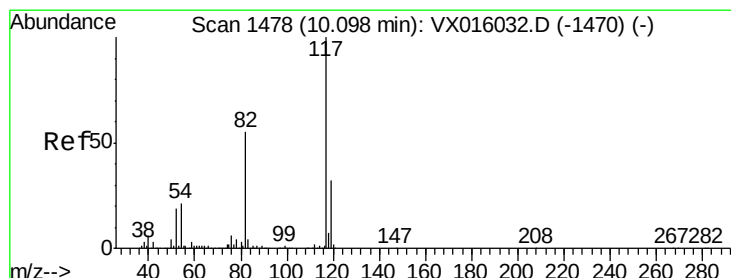
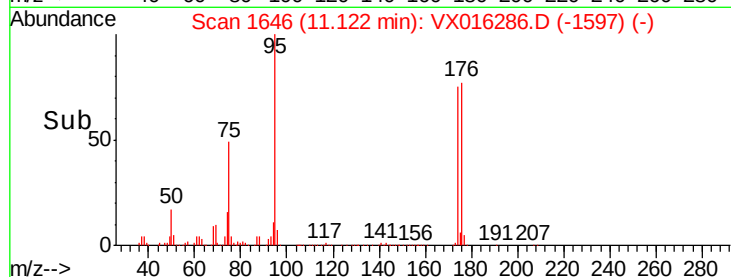
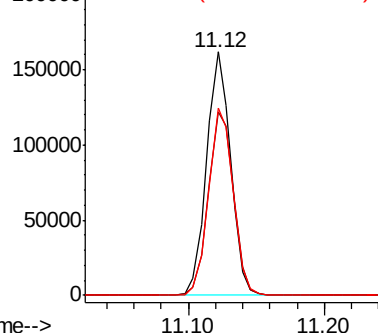
176 78.4 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

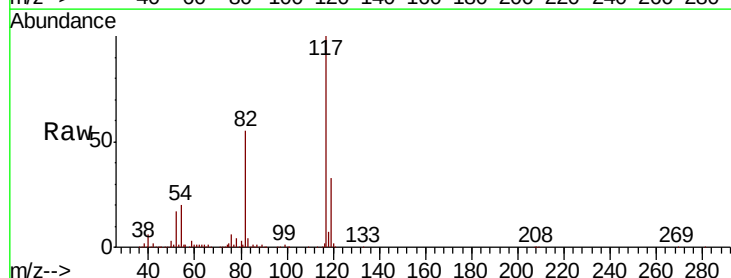
Tgt Ion: 117 Resp: 391426

Ion Ratio Lower Upper

117 100

82 55.3 44.4 66.6

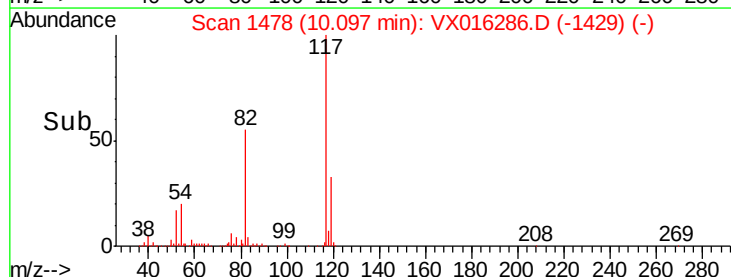
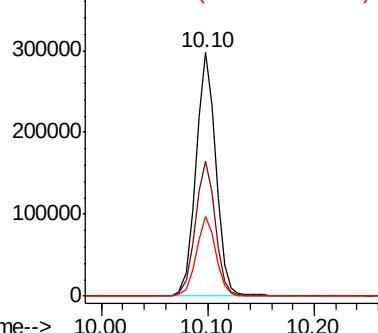
119 32.6 25.5 38.3

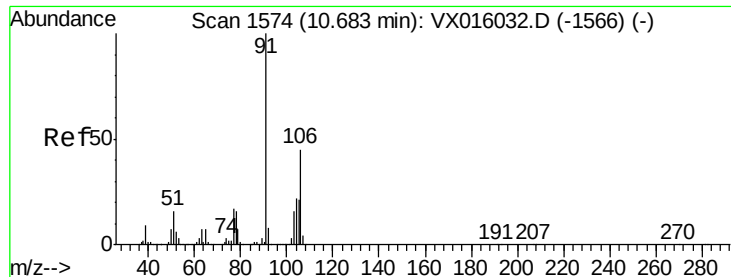


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

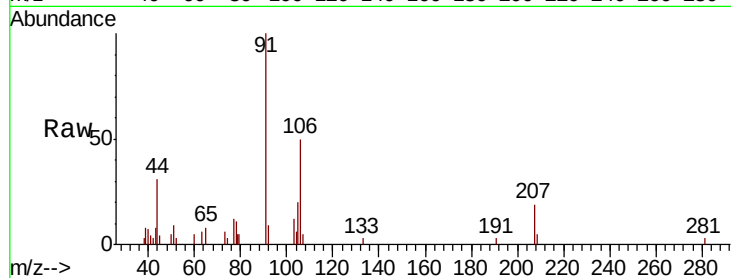




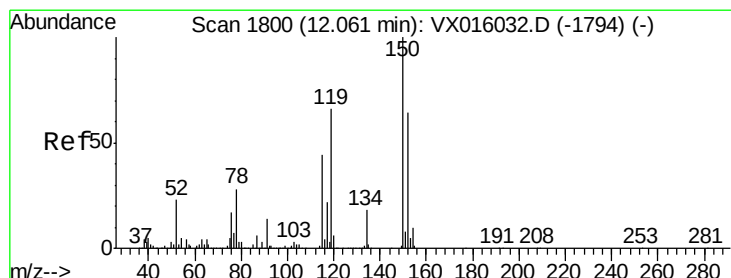
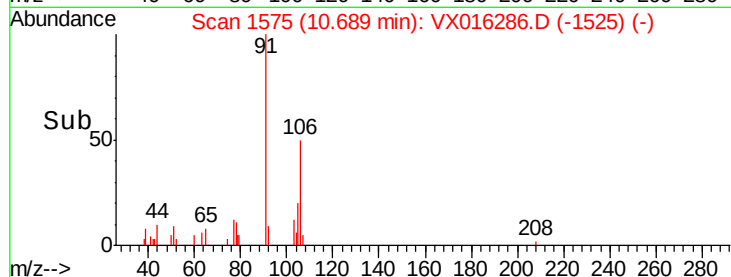
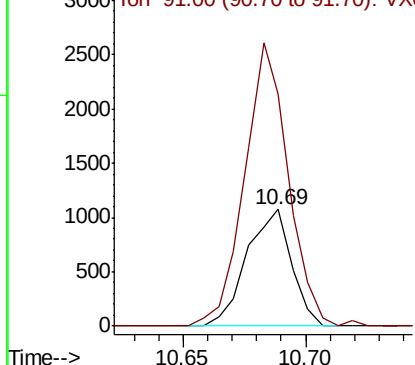
#69
o-Xylene
Concen: 0.260 ug/l
RT: 10.69 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VX016286.D
Acq: 15 May 2020 17:19

Instrument :
MSVOA_X
ClientSampled :
S32-0685

Tot Ion:106 Resp: 1371
Ion Ratio Lower Upper
106 100
91 237.0 107.5 322.6

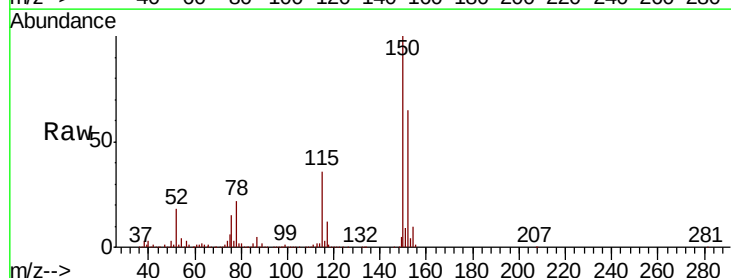


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

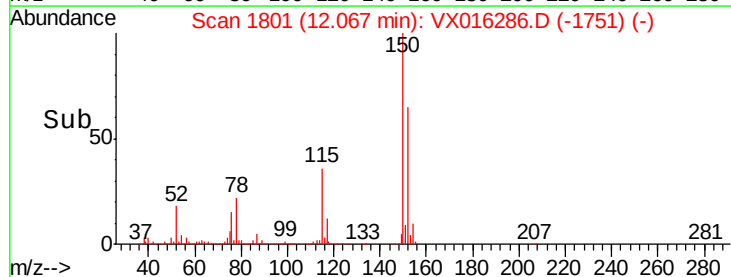
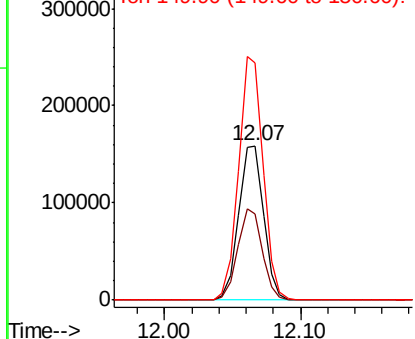


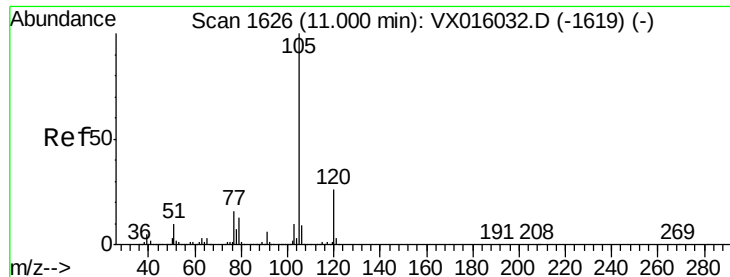
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016286.D
Acq: 15 May 2020 17:19

Tgt Ion:152 Resp: 202403
Ion Ratio Lower Upper
152 100
115 58.1 41.3 124.1
150 154.6 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





#73

Isopropylbenzene

Concen: 0.267 ug/l

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampleId :

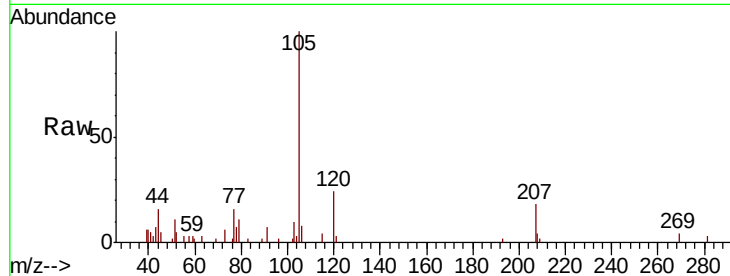
S32-0685

Tot Ion:105 Resp: 3936

Ion Ratio Lower Upper

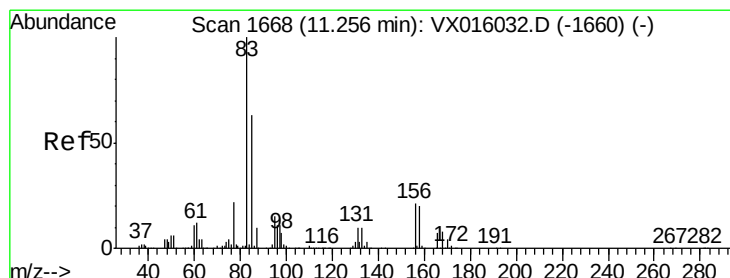
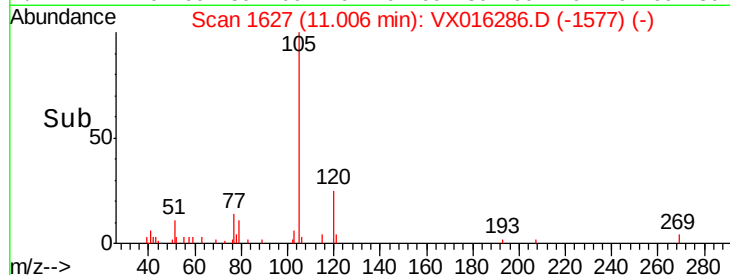
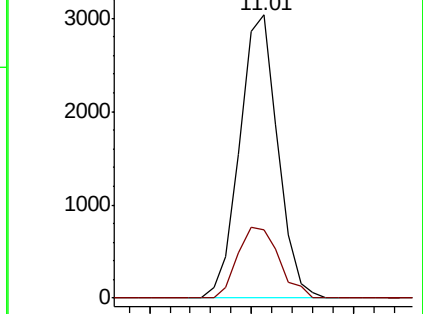
105 100

120 27.1 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: 2.093 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

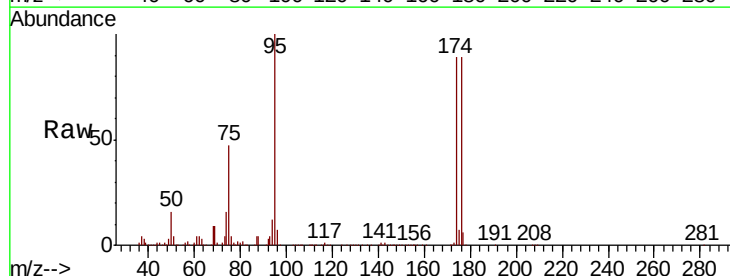
Tgt Ion: 83 Resp: 120

Ion Ratio Lower Upper

83 100

131 190.8 5.1 15.4#

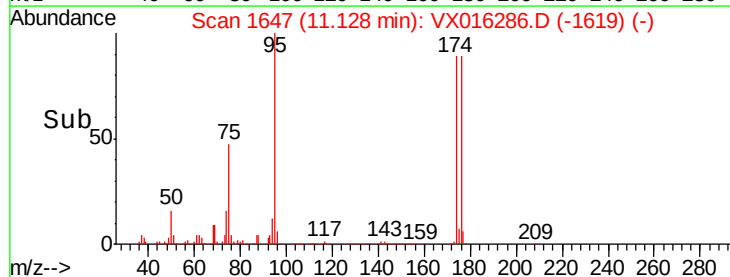
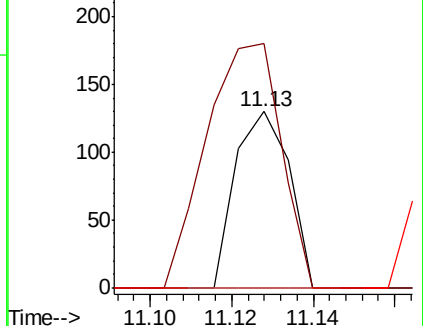
85 0.0 32.0 96.0#

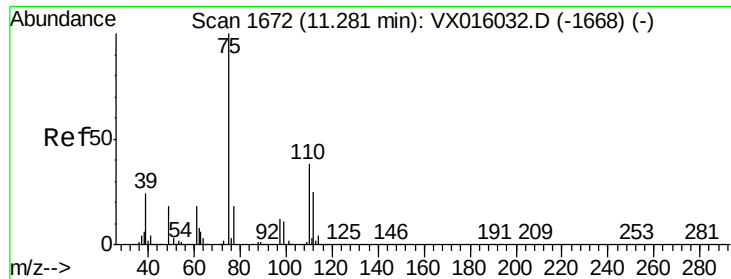


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

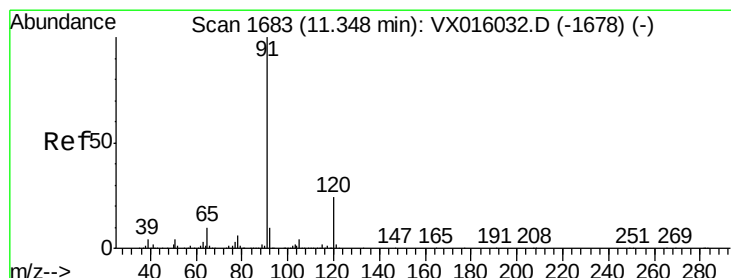
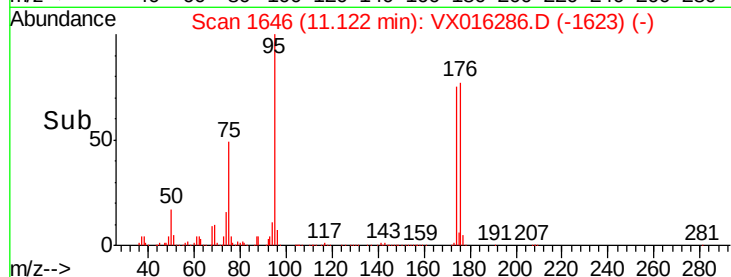
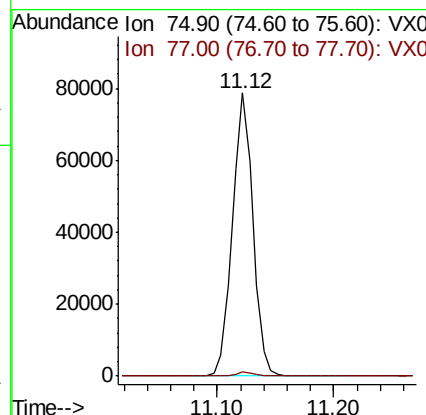
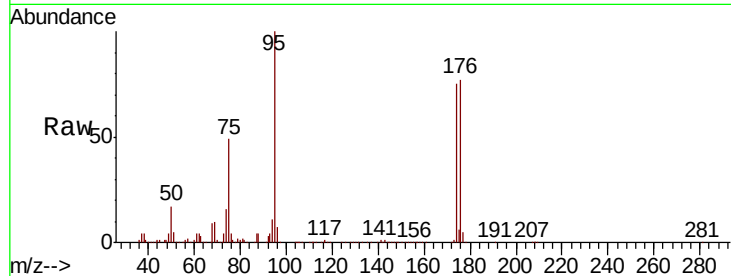




#76
 1,2,3-Trichloropropane
 Concen: 20.954 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

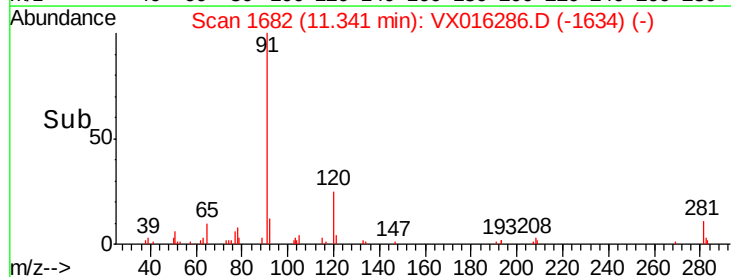
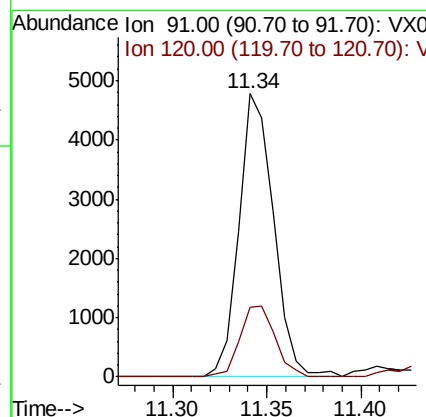
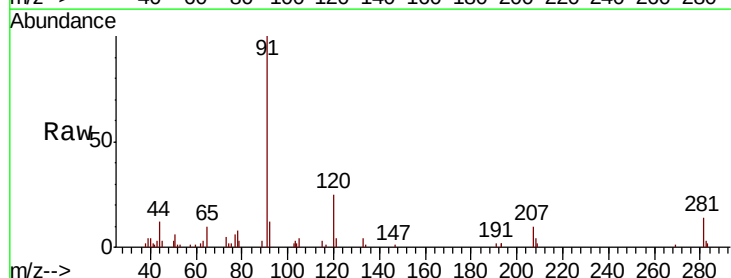
Instrument :
 MSVOA_X
 ClientSampleId :
 S32-0685

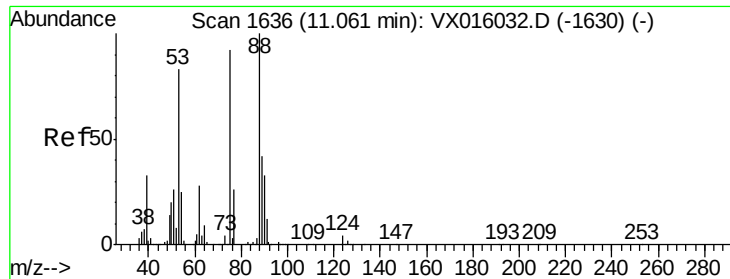
Tot Ion: 75 Resp: 96240
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.2 63.6#



#78
 n-propylbenzene
 Concen: 0.356 ug/l
 RT: 11.34 min Scan# 1682
 Delta R.T. -0.01 min
 Lab File: VX016286.D
 Acq: 15 May 2020 17:19

Tgt Ion: 91 Resp: 6101
 Ion Ratio Lower Upper
 91 100
 120 25.7 11.5 34.5





#81

trans-1,4-Dichloro-2-butene

Concen: 49.934 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

S32-0685

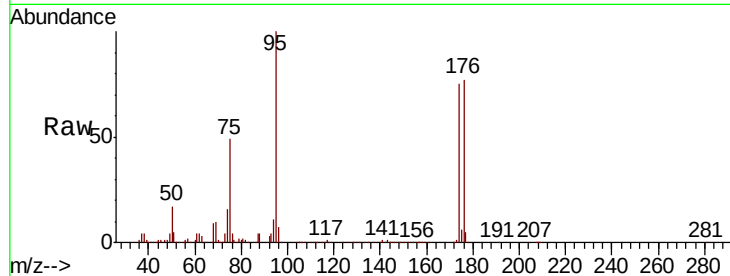
Tot Ion: 75 Resp: 96240

Ion Ratio Lower Upper

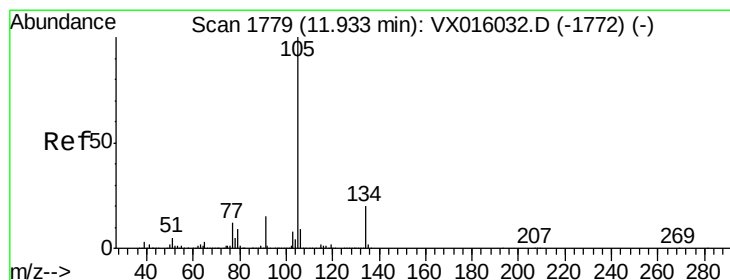
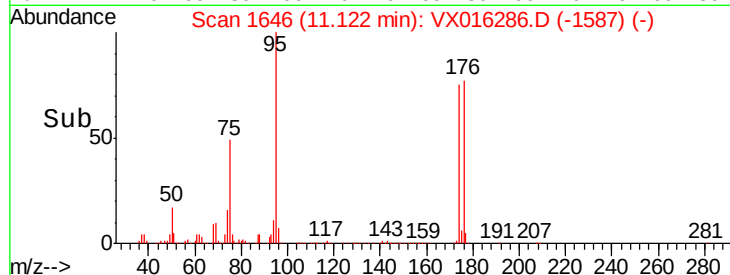
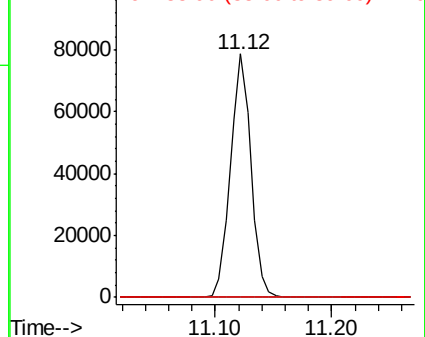
75 100

53 0.1 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



#85

sec-Butylbenzene

Concen: 0.332 ug/l

RT: 11.93 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VX016286.D

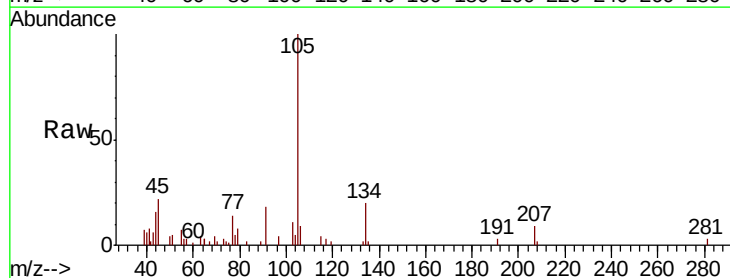
Acq: 15 May 2020 17:19

Tgt Ion: 105 Resp: 4809

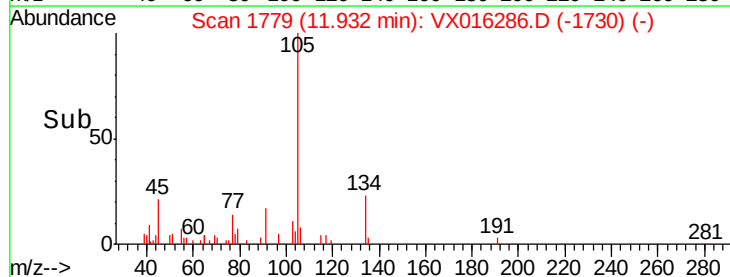
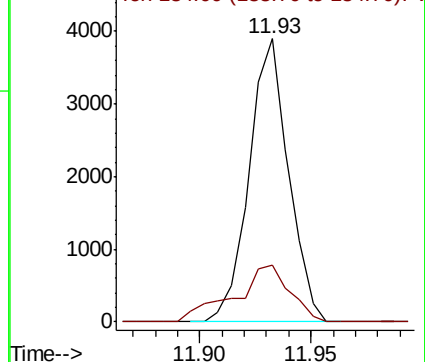
Ion Ratio Lower Upper

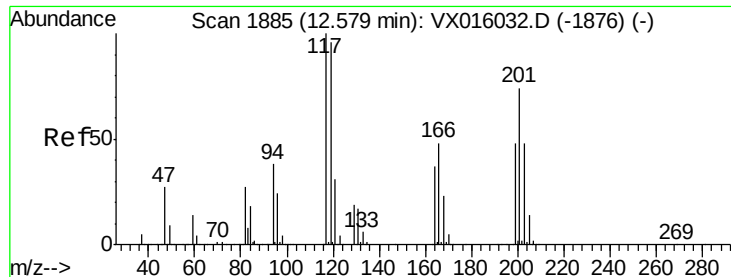
105 100

134 28.2 10.1 30.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1.117 ug/l

RT: 12.69 min Scan# 1903

Delta R.T. 0.11 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

Instrument :

MSVOA_X

ClientSampled :

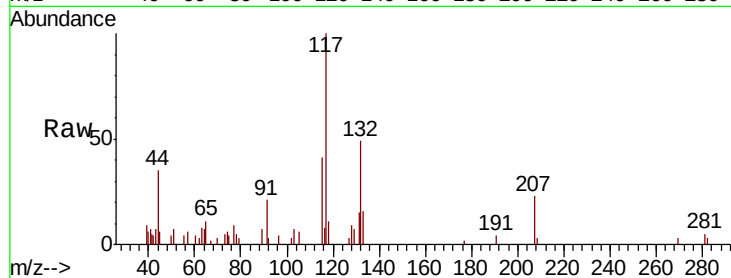
S32-0685

Tot Ion:117 Resp: 2576

Ion Ratio Lower Upper

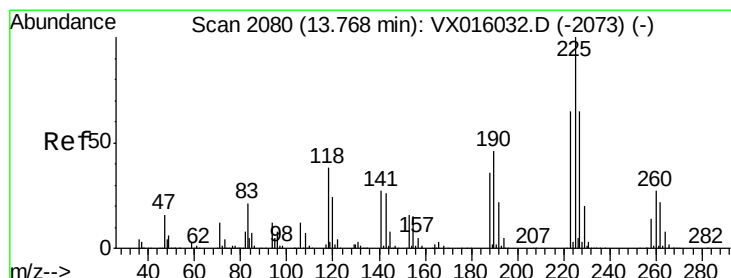
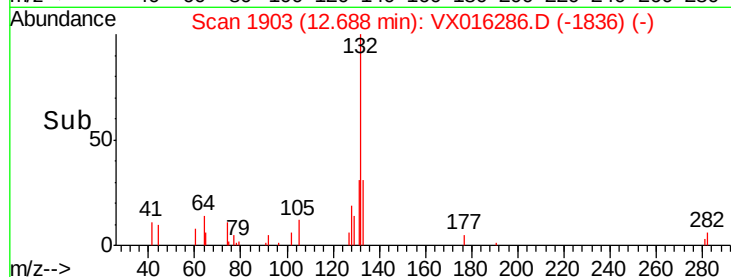
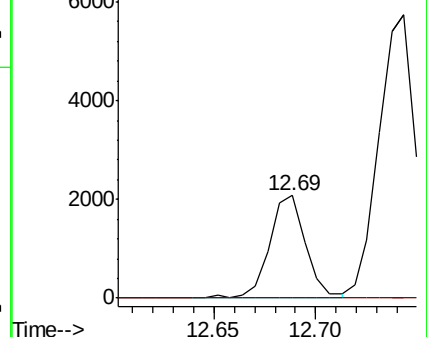
117 100

201 0.0 39.8 119.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#94

Hexachlorobutadiene

Concen: 0.534 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016286.D

Acq: 15 May 2020 17:19

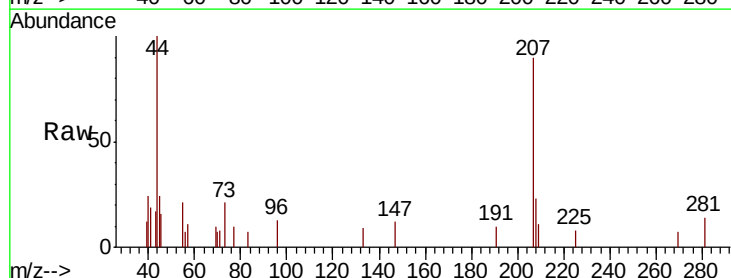
Tgt Ion:225 Resp: 22

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.9#

227 0.0 31.8 95.4#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

