

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\
 Data File : VX016287.D
 Acq On : 15 May 2020 17:42
 Operator : JC/SP
 Sample : L2649-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2020-1

Quant Time: May 16 06:45:50 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	226585	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	373840	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	372865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	189024	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	138050	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
35) Dibromofluoromethane	5.47	113	111570	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
50) Toluene-d8	8.70	98	468970	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
62) 4-Bromofluorobenzene	11.12	95	189179	54.50	ug/l	0.00
Spiked Amount			Recovery	=	109.00%	

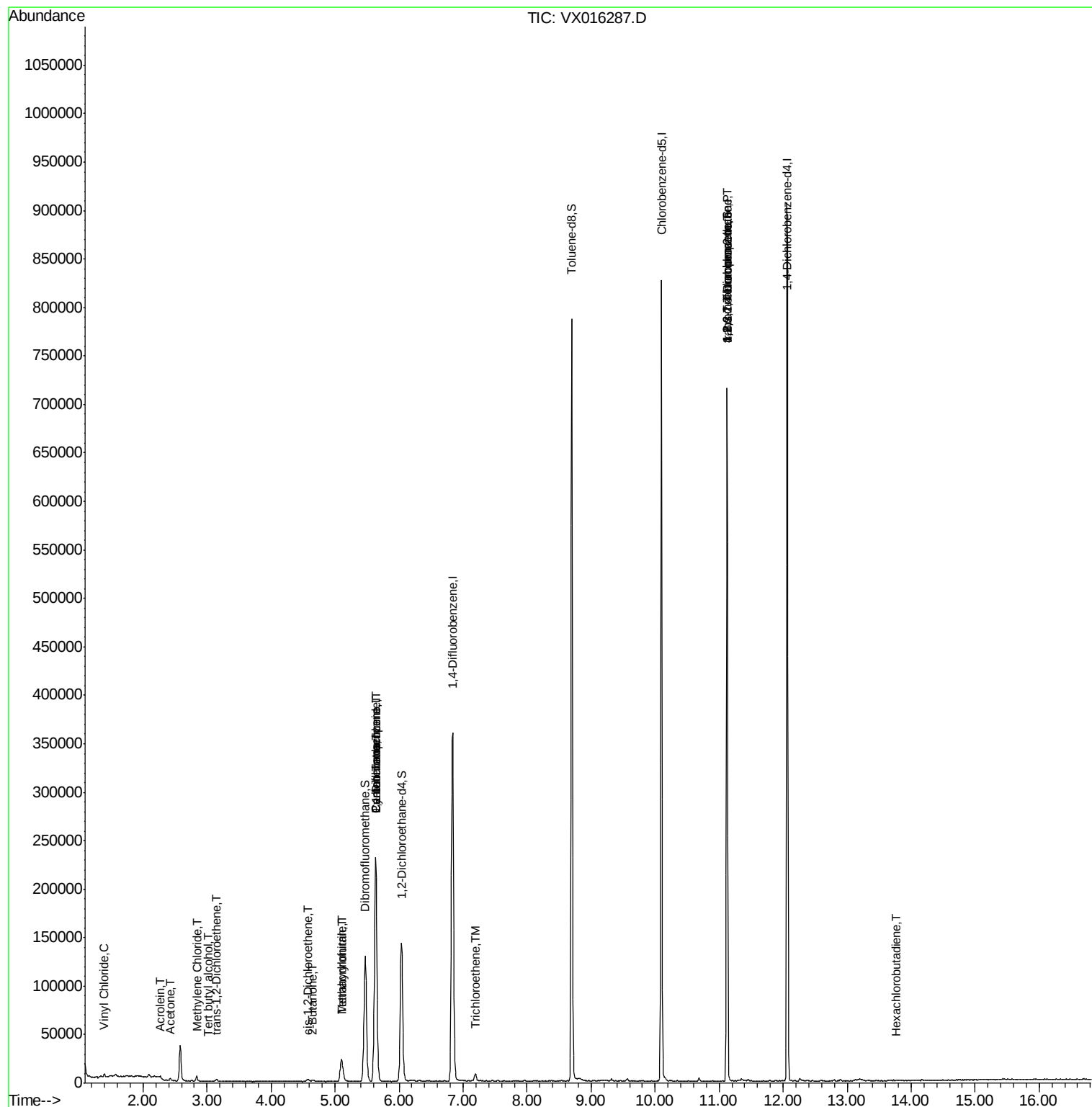
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	1846	0.621	ug/l	100
11) Tert butyl alcohol	3.01	59	363	0.481	ug/l #	87
13) Acrolein	2.27	56	355	0.752	ug/l #	53
16) Acetone	2.42	43	2317	1.742	ug/l	96
20) Methylene Chloride	2.83	84	2070	0.755	ug/l	95
21) trans-1,2-Dichloroethene	3.15	96	1123	0.428	ug/l #	64
25) 2-Butanone	4.65	43	1602	0.747	ug/l	95
27) cis-1,2-Dichloroethene	4.57	96	1905	0.664	ug/l	54
29) Tetrahydrofuran	5.10	42	22435	15.794	ug/l	98
31) Cyclohexane	5.64	56	4046	0.977	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	16937	4.603	ug/l #	49
38) Carbon Tetrachloride	5.63	117	21406	5.723	ug/l #	14
41) Methacrylonitrile	5.10	41	12544	5.446	ug/l #	43
44) Trichloroethene	7.19	130	2668	0.697	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.13	83	145	2.106	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	90778	21.163	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	90778	50.434	ug/l #	13
94) Hexachlorobutadiene	13.76	225	58	0.553	ug/l #	18

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

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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# 745

Delta R.T. -0.01 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

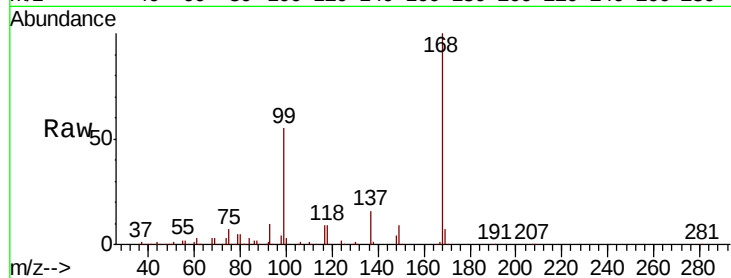
S32-ER-2020-1

Tot Ion:168 Resp: 226585

Ion Ratio Lower Upper

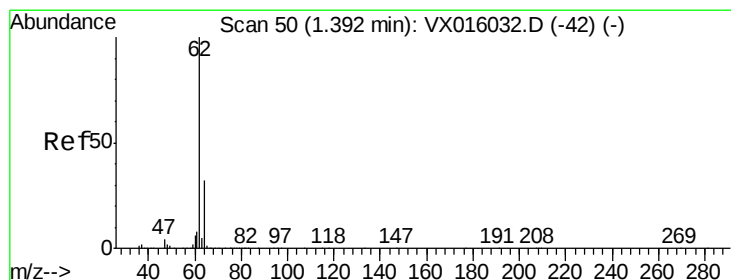
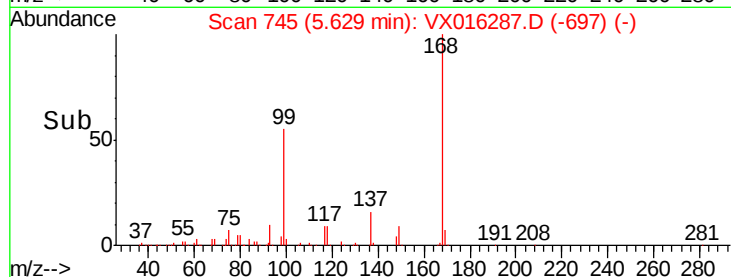
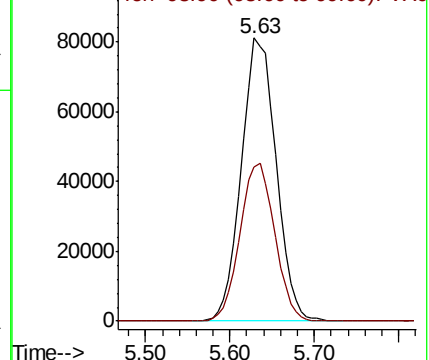
168 100

99 54.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 0.621 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016287.D

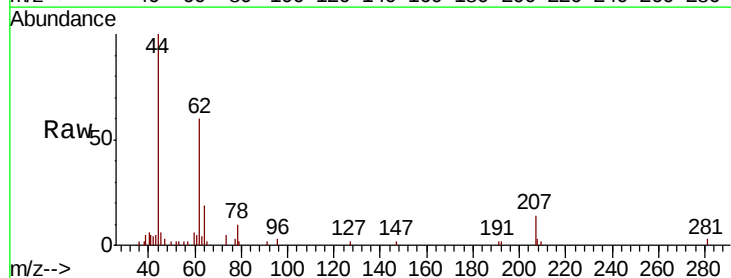
Acq: 15 May 2020 17:42

Tgt Ion: 62 Resp: 1846

Ion Ratio Lower Upper

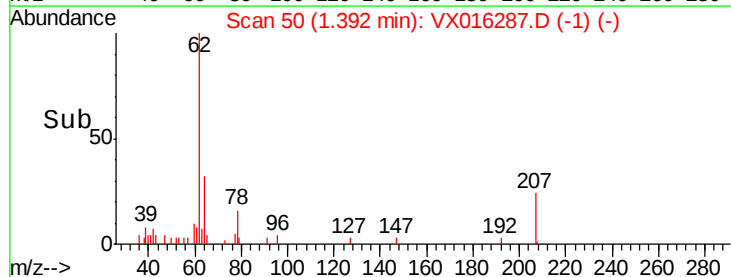
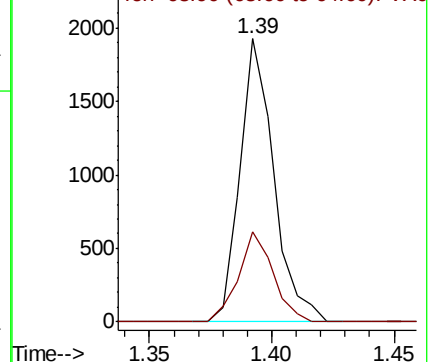
62 100

64 31.8 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



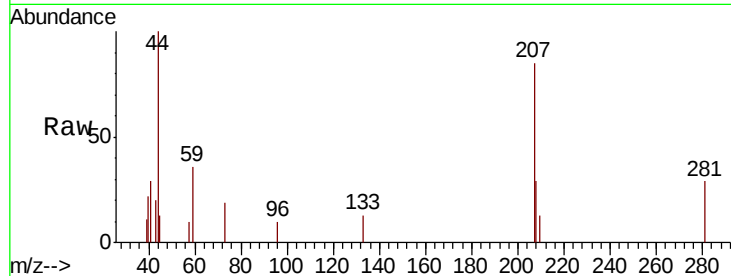


#11

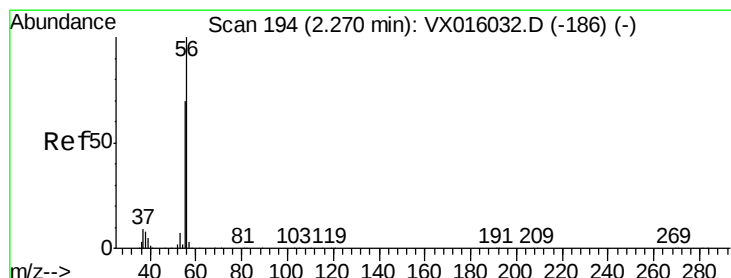
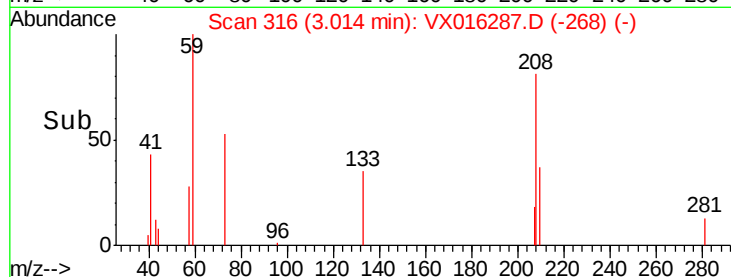
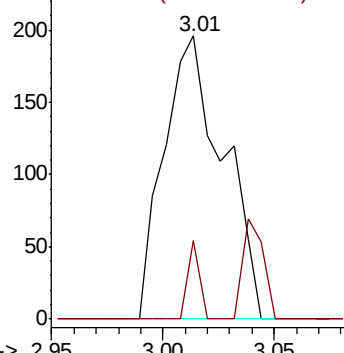
Tert butyl alcohol
 Concen: 0.481 ug/l
 RT: 3.01 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2020-1

Tot Ion: 59 Resp: 363
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.2 12.4#



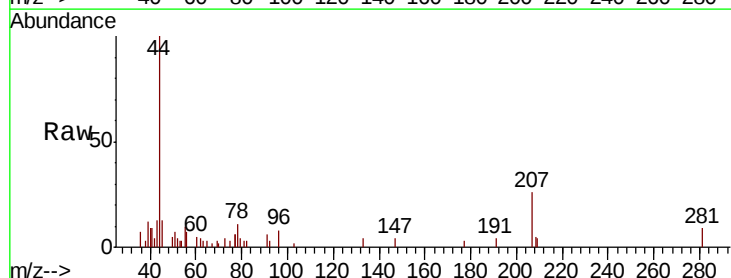
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



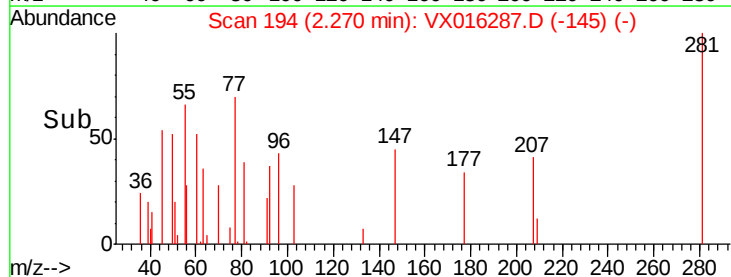
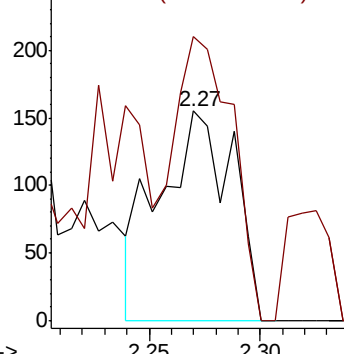
#13

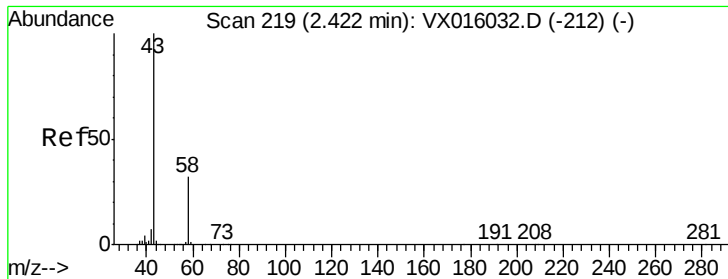
Acrolein
 Concen: 0.752 ug/l
 RT: 2.27 min Scan# 194
 Delta R.T. 0.00 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Tgt Ion: 56 Resp: 355
 Ion Ratio Lower Upper
 56 100
 55 109.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.742 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

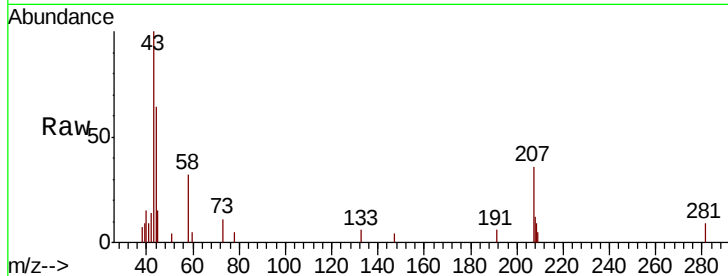
S32-ER-2020-1

Tot Ion: 43 Resp: 2317

Ion Ratio Lower Upper

43 100

58 34.1 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

1500

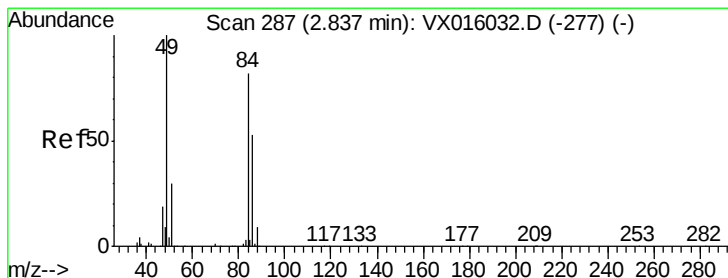
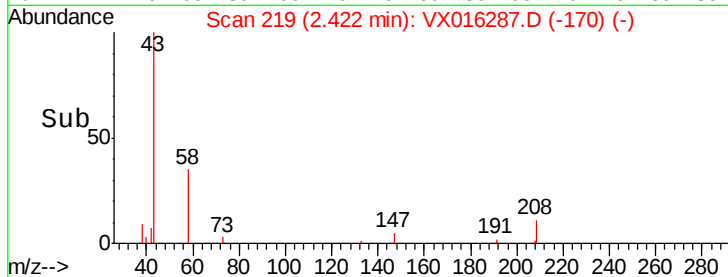
1000

500

0

Time-->

2.35 2.40 2.45 2.50



#20

Methylene Chloride

Concen: 0.755 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Tgt Ion: 84 Resp: 2070

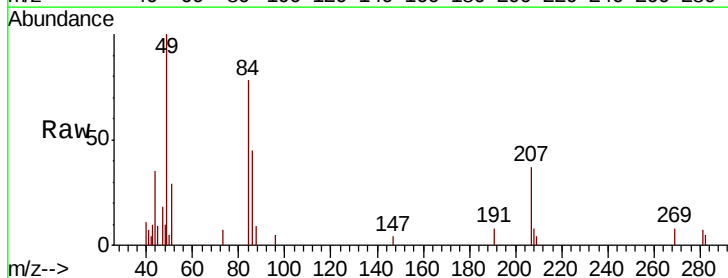
Ion Ratio Lower Upper

84 100

49 127.5 97.3 145.9

51 37.3 29.3 43.9

86 57.8 51.3 76.9



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

2000

1500

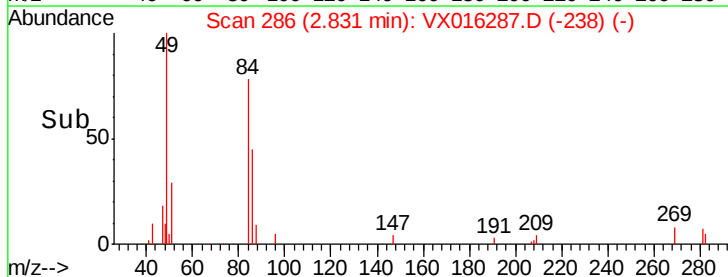
1000

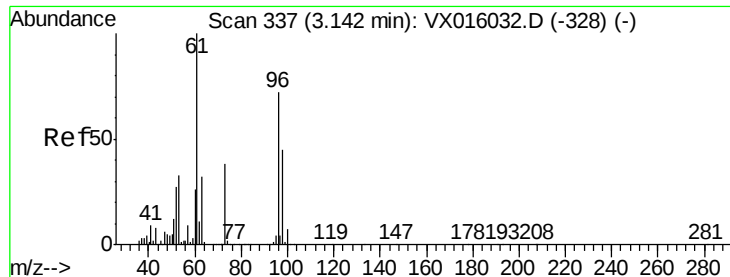
500

0

Time-->

2.75 2.80 2.85 2.90





#21

trans-1,2-Dichloroethene

Concen: 0.428 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampled :

S32-ER-2020-1

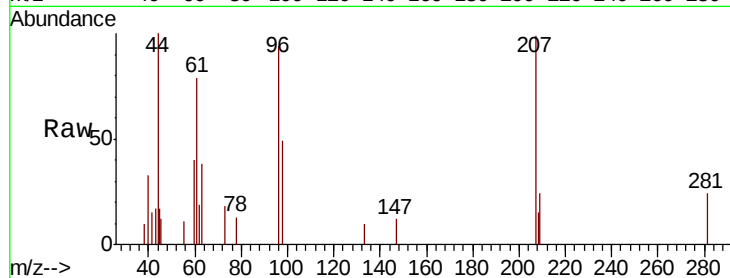
Tot Ion: 96 Resp: 1123

Ion Ratio Lower Upper

96 100

61 84.0 111.2 166.8#

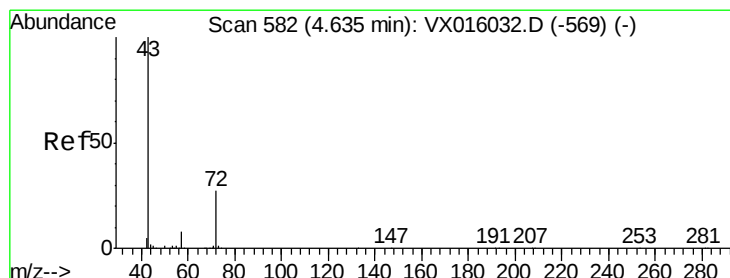
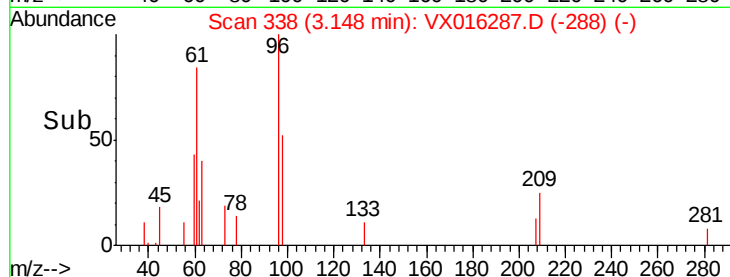
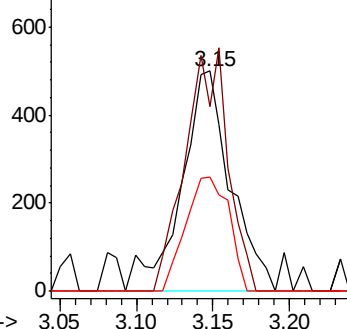
98 51.6 50.2 75.4



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: 0.747 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX016287.D

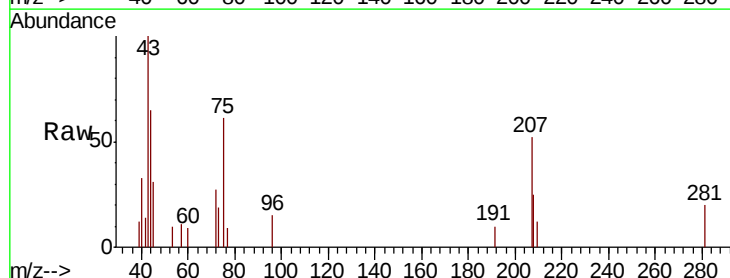
Acq: 15 May 2020 17:42

Tgt Ion: 43 Resp: 1602

Ion Ratio Lower Upper

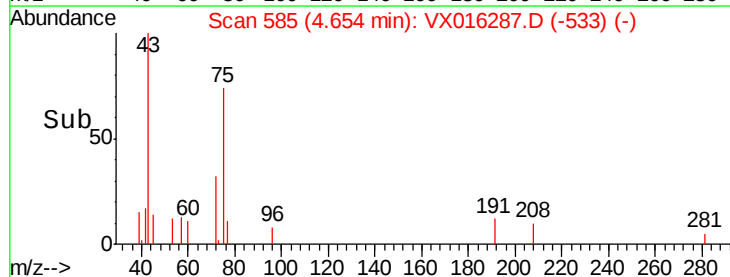
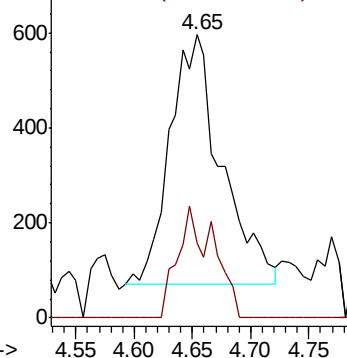
43 100

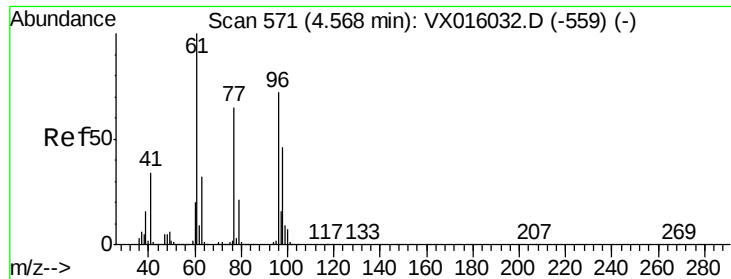
72 30.2 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



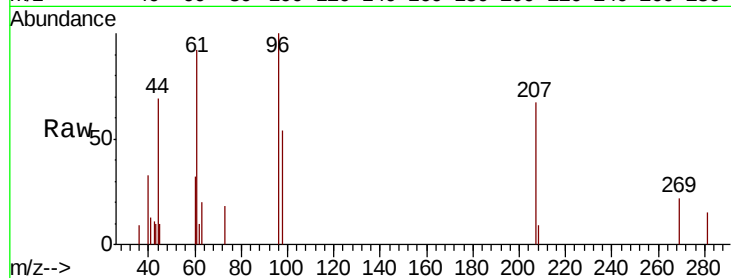


#27

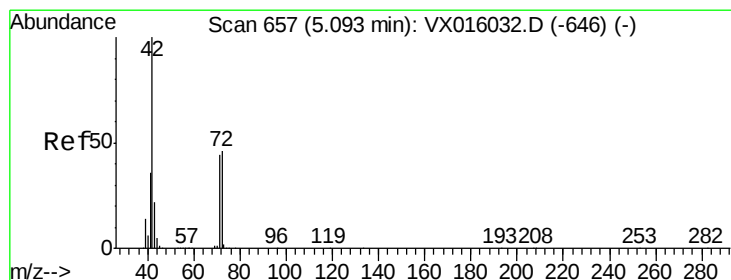
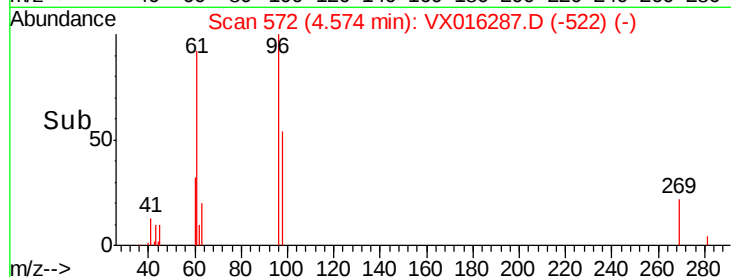
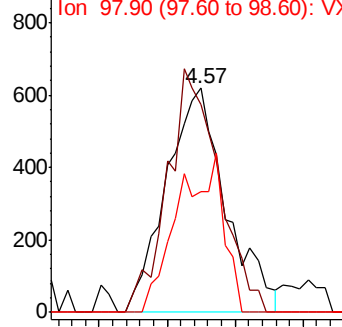
cis-1,2-Dichloroethene
 Concen: 0.664 ug/l
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2020-1

Tot Ion	Ratio	Lower	Upper
96	100		
61	92.7	0.0	296.2
98	25.7	0.0	129.4



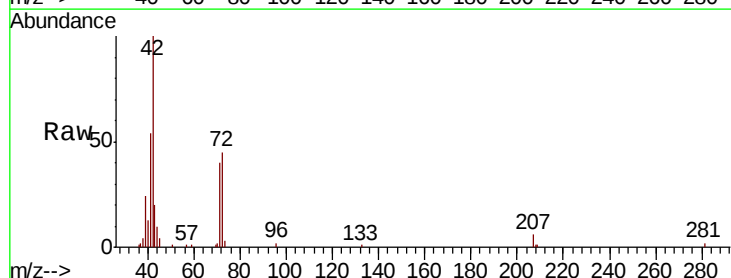
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



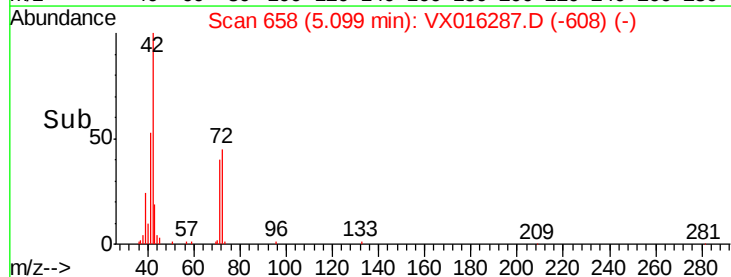
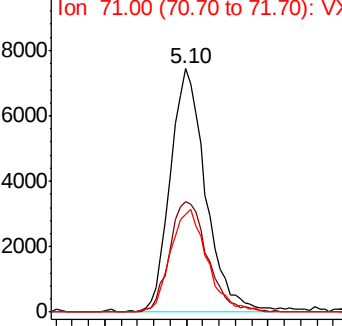
#29

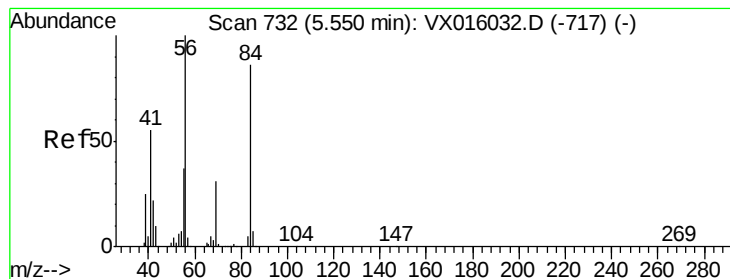
Tetrahydrofuran
 Concen: 15.794 ug/l
 RT: 5.10 min Scan# 658
 Delta R.T. 0.01 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Tgt Ion	Ratio	Lower	Upper
42	100		
72	48.2	37.1	55.7
71	43.6	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: 0.977 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2020-1

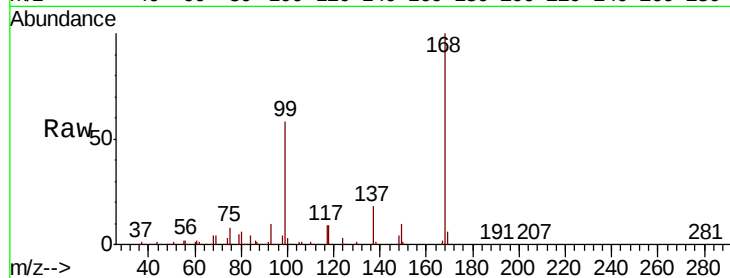
Tot Ion: 56 Resp: 4046

Ion Ratio Lower Upper

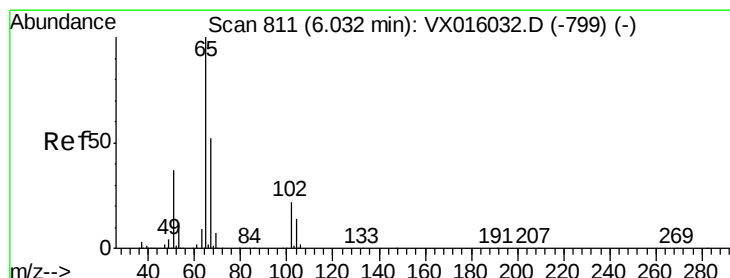
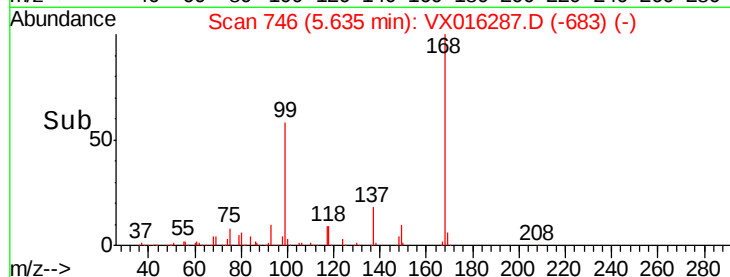
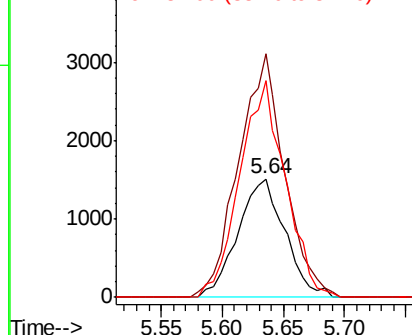
56 100

69 205.9 25.0 37.6#

84 182.8 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: 46.300 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016287.D

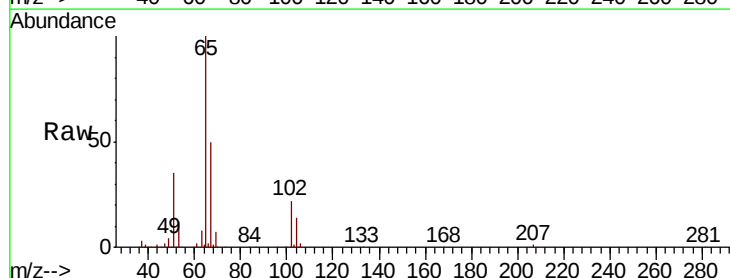
Acq: 15 May 2020 17:42

Tgt Ion: 65 Resp: 138050

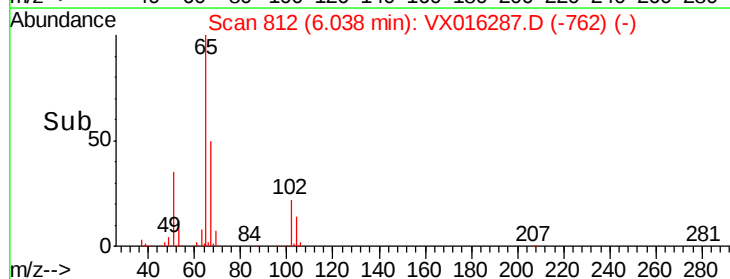
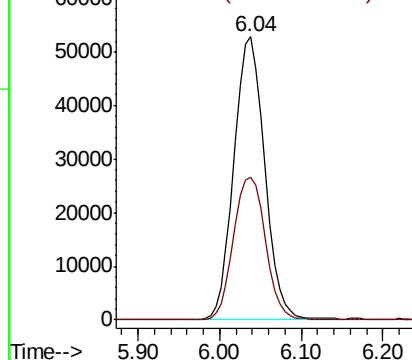
Ion Ratio Lower Upper

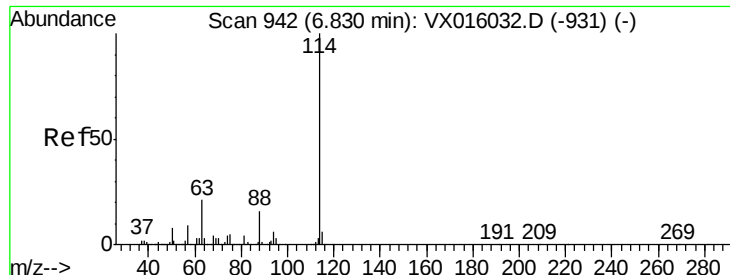
65 100

67 52.6 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

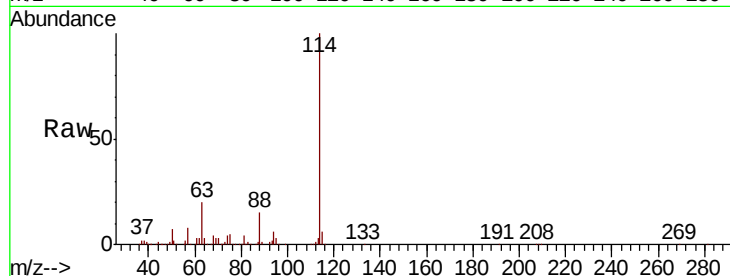




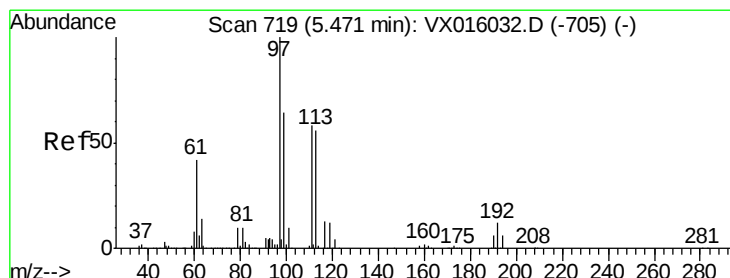
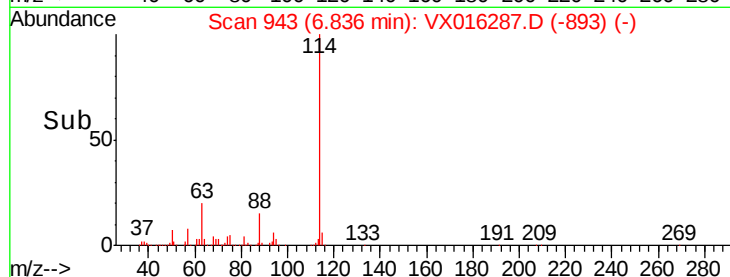
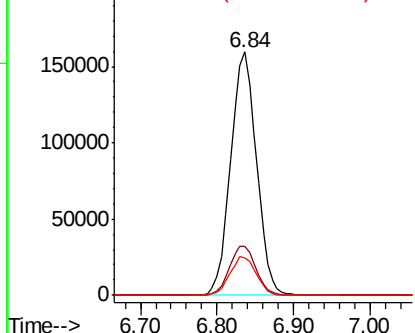
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2020-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	42.8
88	15.5	0.0	31.4

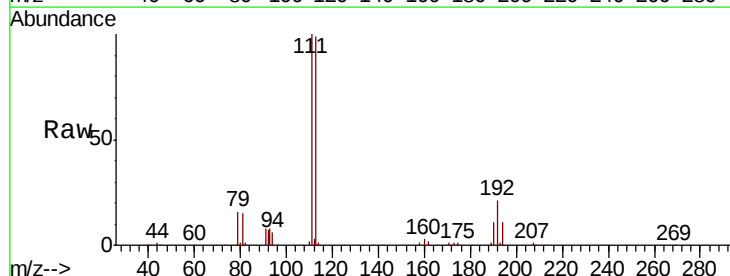


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

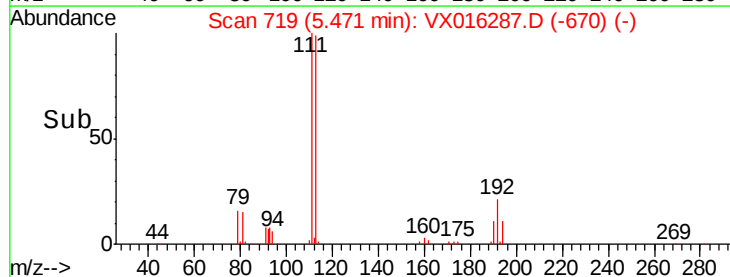
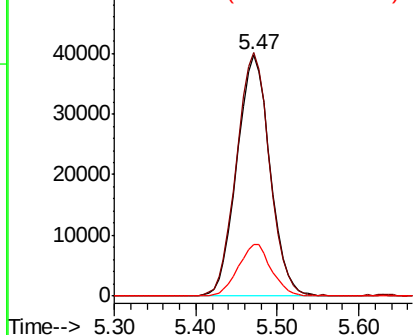


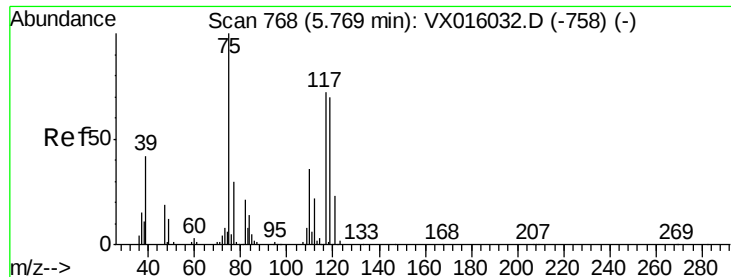
#35
 Dibromofluoromethane
 Concen: 47.107 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.00 min
 Lab File: VX016287.D
 Acq: 15 May 2020 17:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.6	122.4
192	21.6	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: 4.603 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2020-1

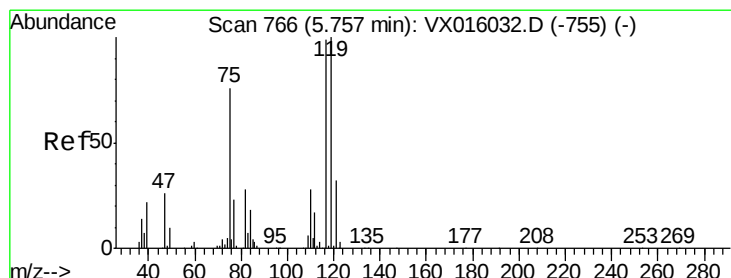
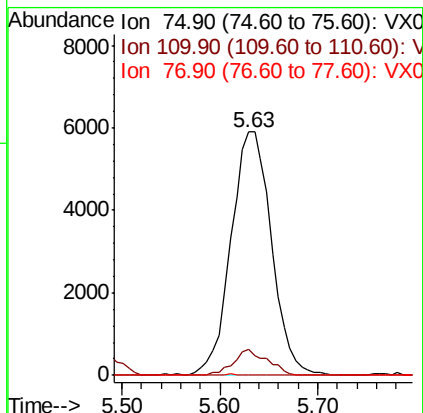
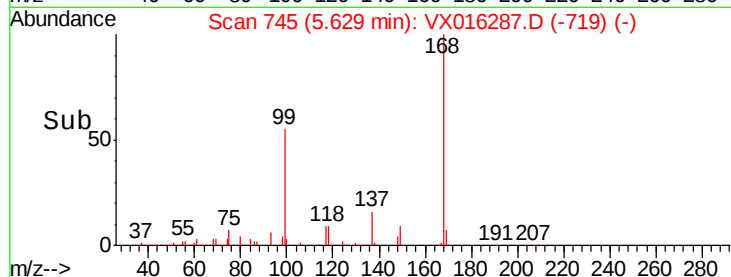
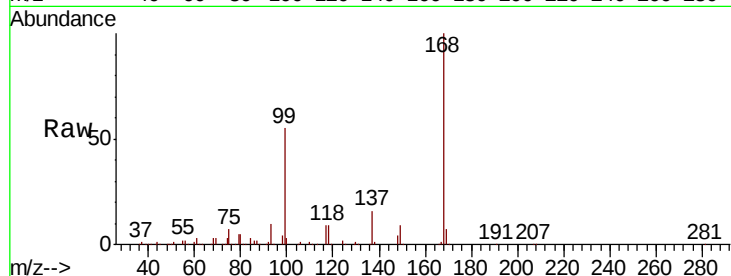
Tot Ion: 75 Resp: 16937

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.1#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.723 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

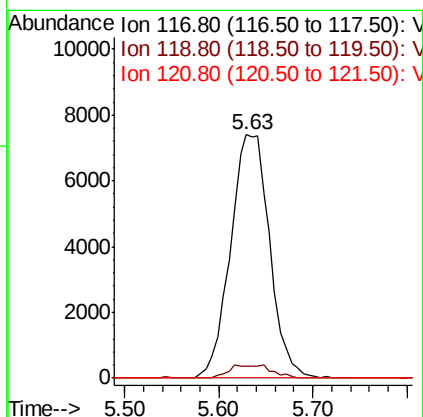
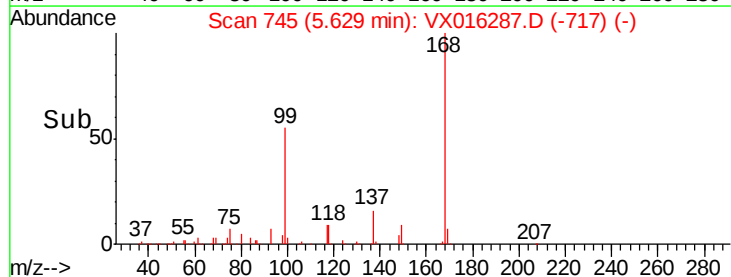
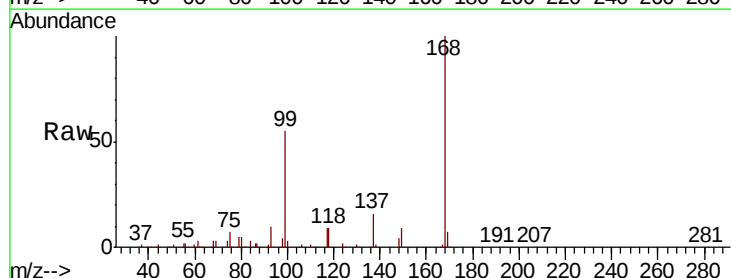
Tgt Ion: 117 Resp: 21406

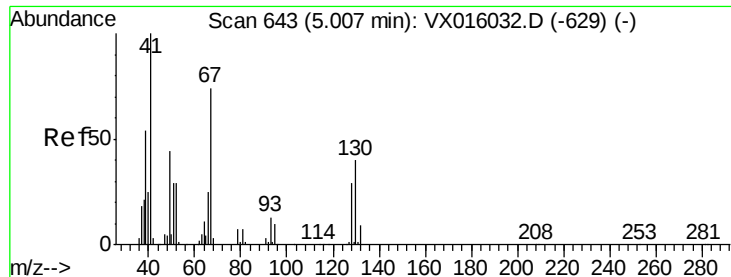
Ion Ratio Lower Upper

117 100

119 4.7 80.3 120.5#

121 0.0 25.7 38.5#





#41

Methacrylonitrile

Concen: 5.446 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.09 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2020-1

Tot Ion: 41 Resp: 12544

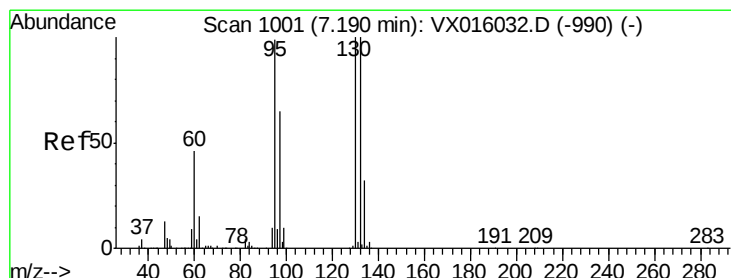
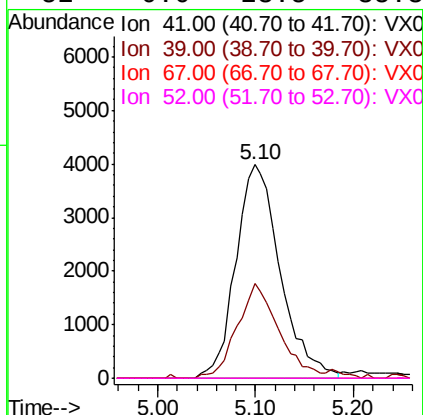
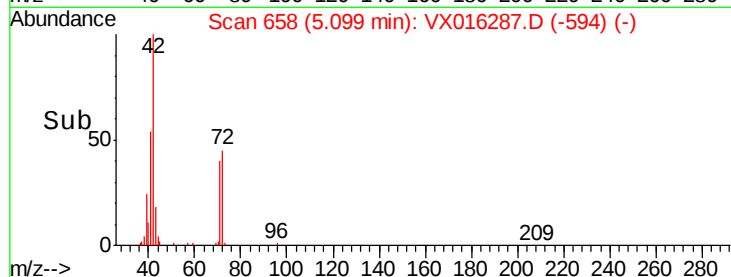
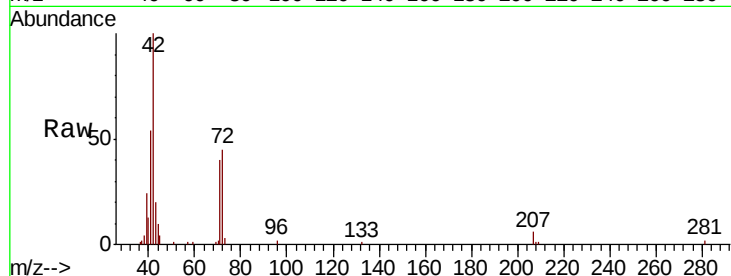
Ion Ratio Lower Upper

41 100

39 41.7 43.2 64.8#

67 0.0 59.3 88.9#

52 0.0 23.5 35.3#



#44

Trichloroethene

Concen: 0.697 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX016287.D

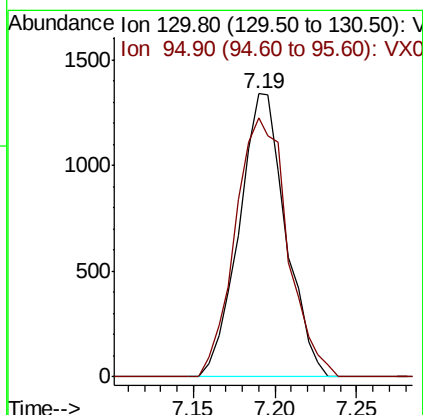
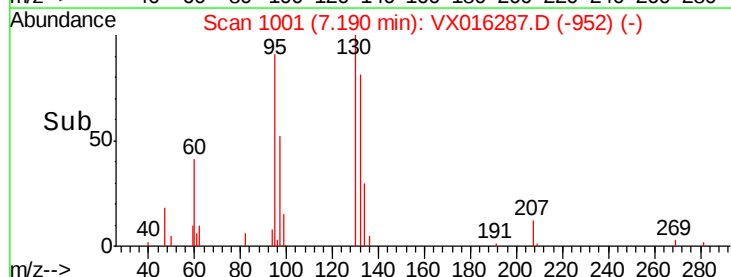
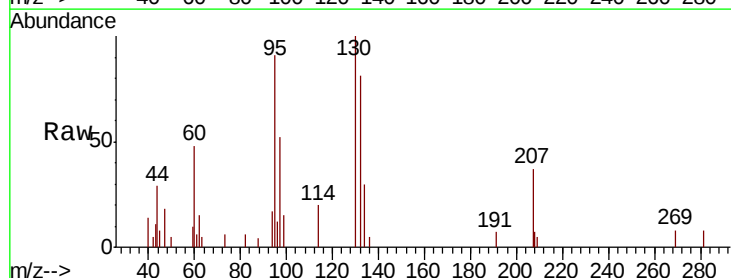
Acq: 15 May 2020 17:42

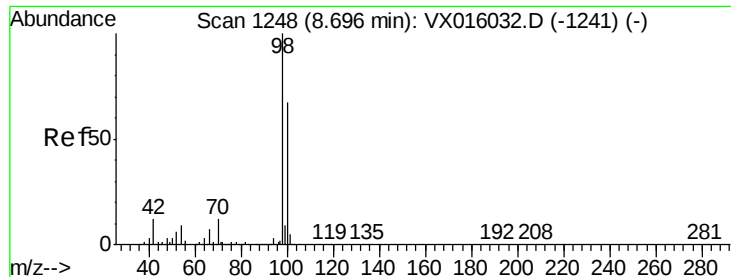
Tgt Ion: 130 Resp: 2668

Ion Ratio Lower Upper

130 100

95 91.4 0.0 197.4





#50

Toluene-d8

Concen: 51.390 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

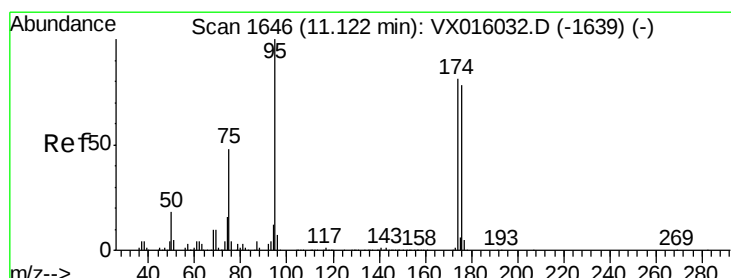
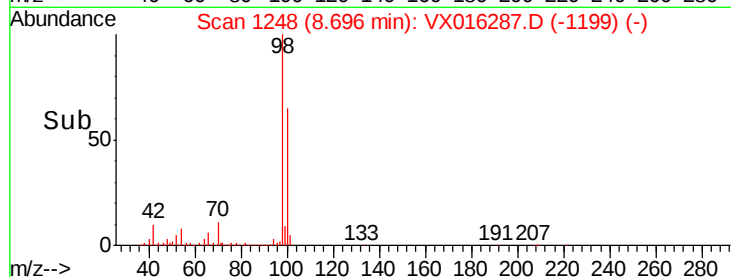
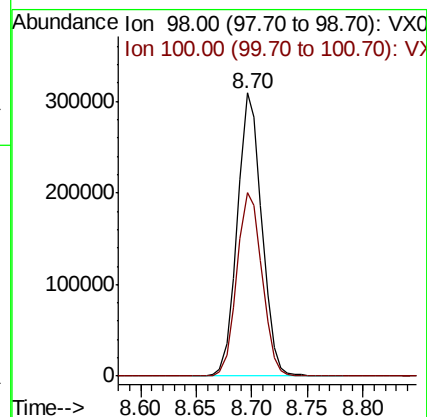
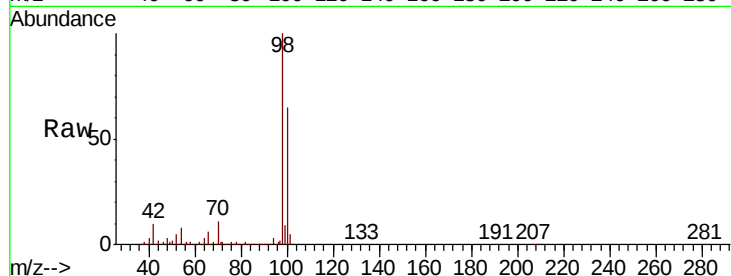
S32-ER-2020-1

Tot Ion: 98 Resp: 468970

Ion Ratio Lower Upper

98 100

100 67.0 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 54.503 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

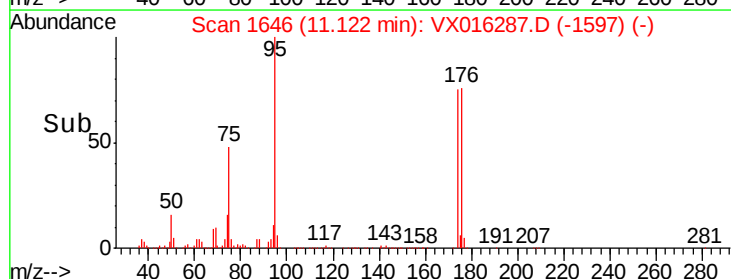
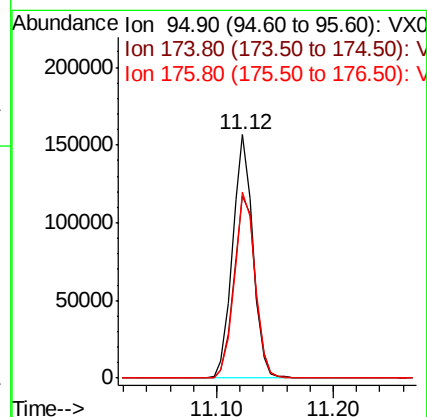
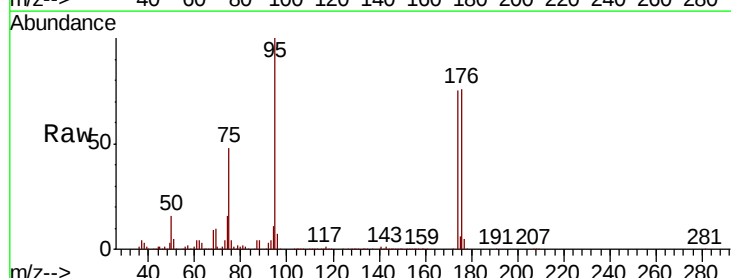
Tgt Ion: 95 Resp: 189179

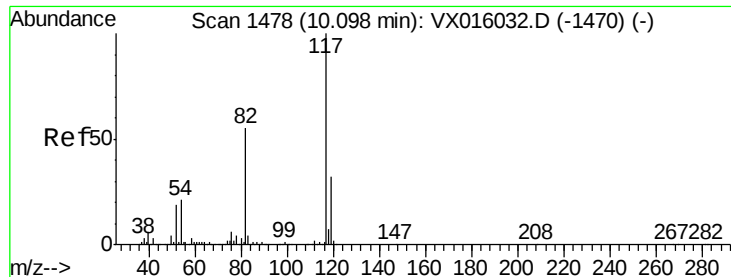
Ion Ratio Lower Upper

95 100

174 78.9 0.0 159.4

176 78.2 0.0 157.6

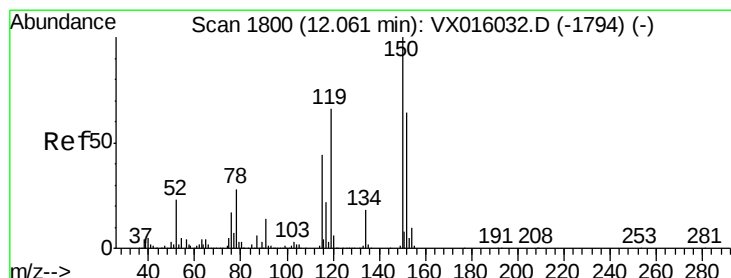
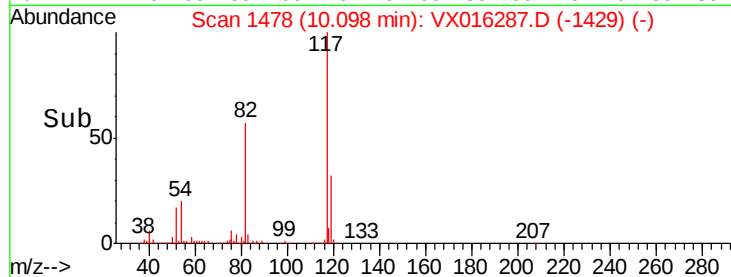
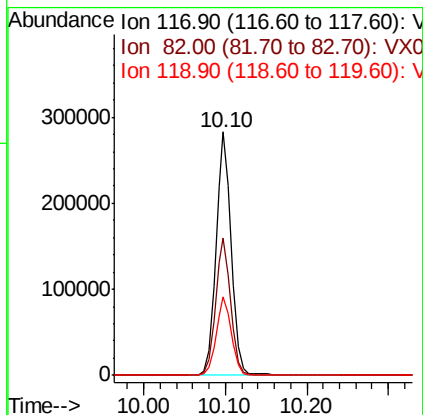
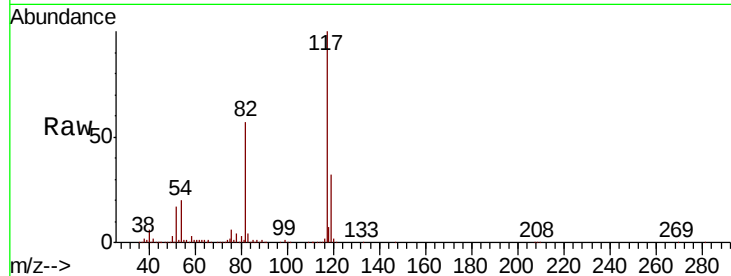




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016287.D
Acq: 15 May 2020 17:42

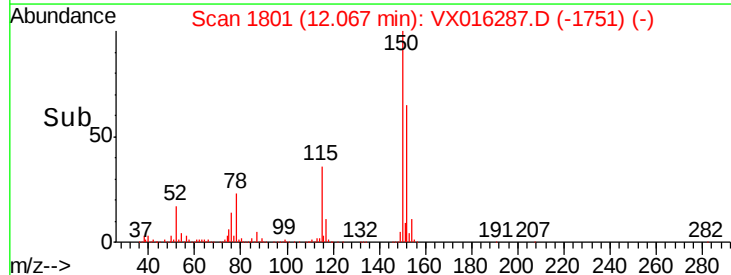
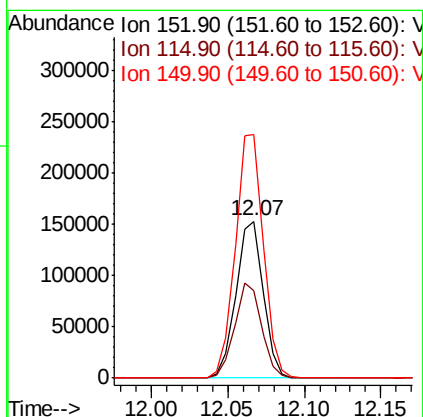
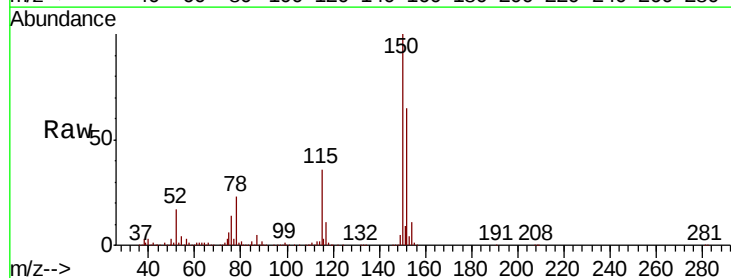
Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2020-1

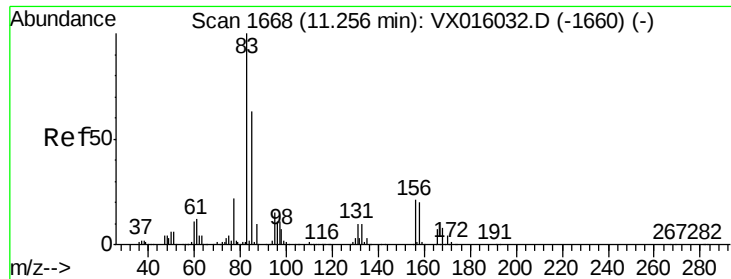
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	44.4	66.6
119	32.3	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016287.D
Acq: 15 May 2020 17:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.1	41.3	124.1
150	159.3	0.0	352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 2.106 ug/l

RT: 11.13 min Scan# 1647

Delta R.T. -0.13 min

Lab File: VX016287.D

Acq: 15 May 2020 17:42

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2020-1

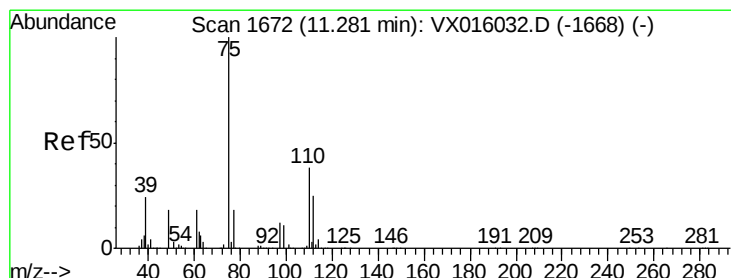
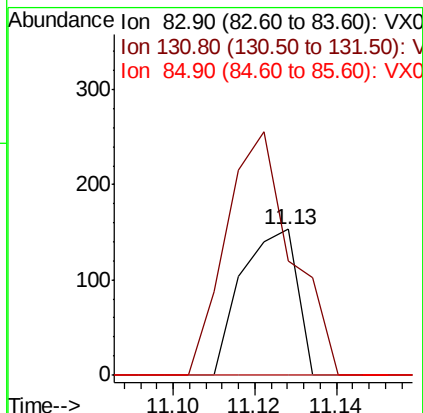
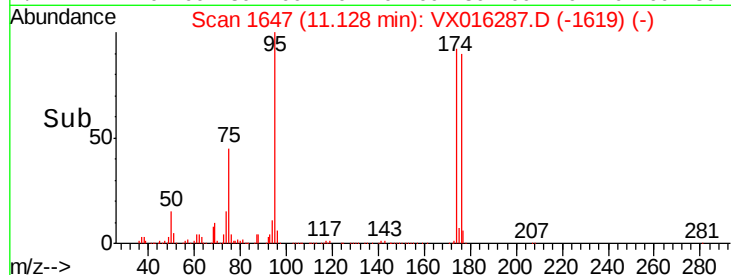
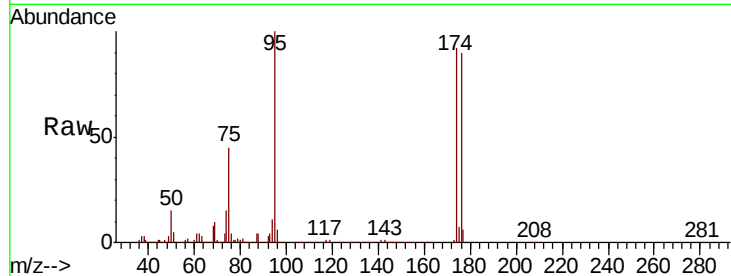
Tot Ion: 83 Resp: 145

Ion Ratio Lower Upper

83 100

131 196.6 5.1 15.4#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 21.163 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016287.D

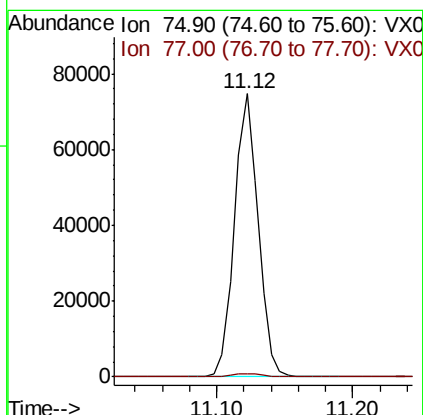
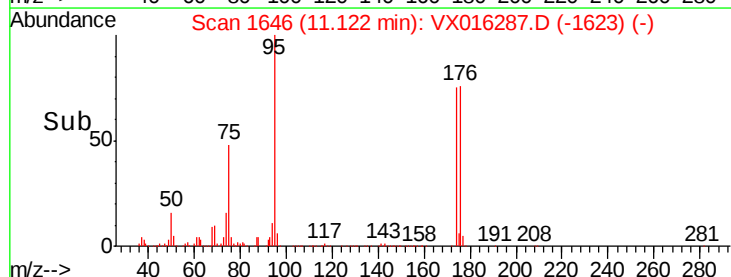
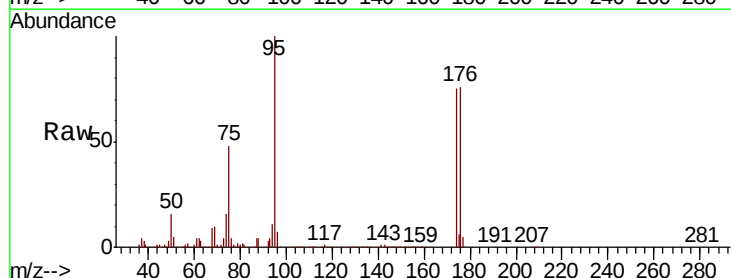
Acq: 15 May 2020 17:42

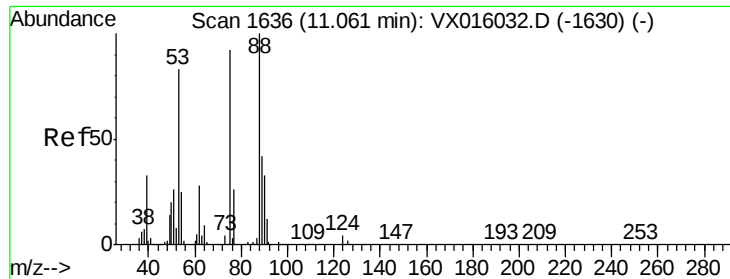
Tgt Ion: 75 Resp: 90778

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#

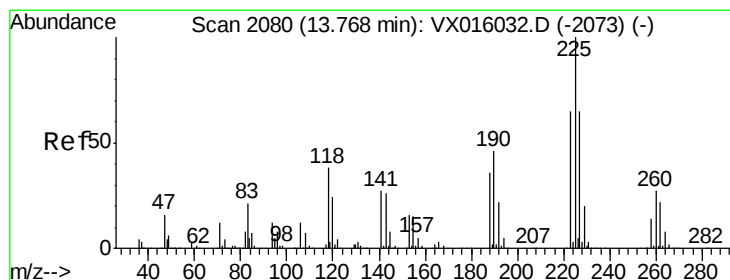
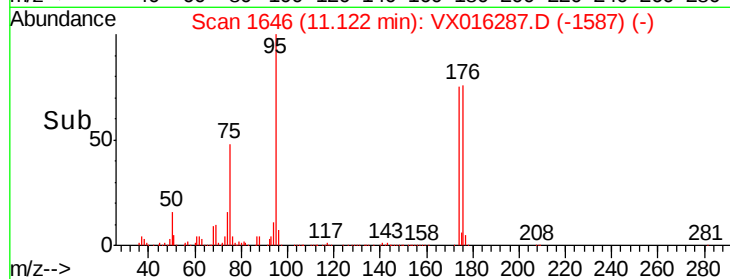
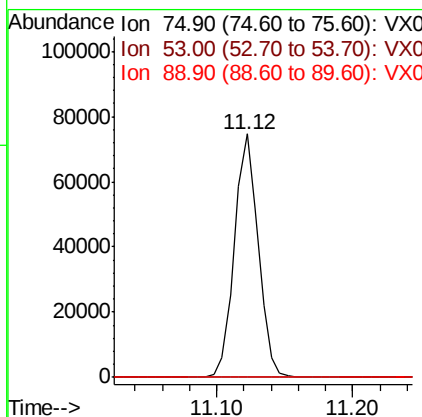
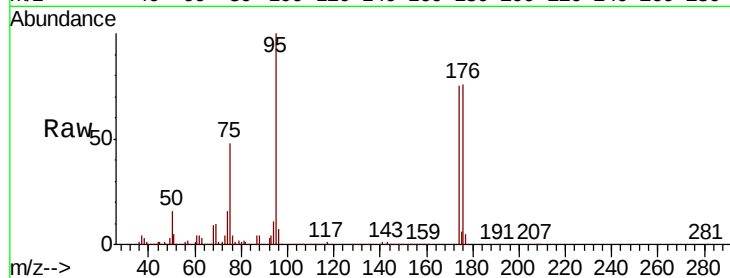




#81
trans-1,4-Dichloro-2-butene
Concen: 50.434 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016287.D
Acq: 15 May 2020 17:42

Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2020-1

Tot Ion: 75 Resp: 90778
Ion Ratio Lower Upper
75 100
53 0.0 73.1 109.7#
89 0.0 36.7 55.1#



#94
Hexachlorobutadiene
Concen: 0.553 ug/l
RT: 13.76 min Scan# 2079
Delta R.T. -0.01 min
Lab File: VX016287.D
Acq: 15 May 2020 17:42

Tgt Ion: 225 Resp: 58
Ion Ratio Lower Upper
225 100
223 0.0 32.3 96.9#
227 0.0 31.8 95.4#

