

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\
 Data File : VX016291.D
 Acq On : 15 May 2020 19:13
 Operator : JC/SP
 Sample : PB128913TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 16 06:47:11 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	242309	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	409778	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	399016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	199898	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	146748	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	
35) Dibromofluoromethane	5.47	113	120369	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	8.70	98	503499	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.12	95	203600	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	

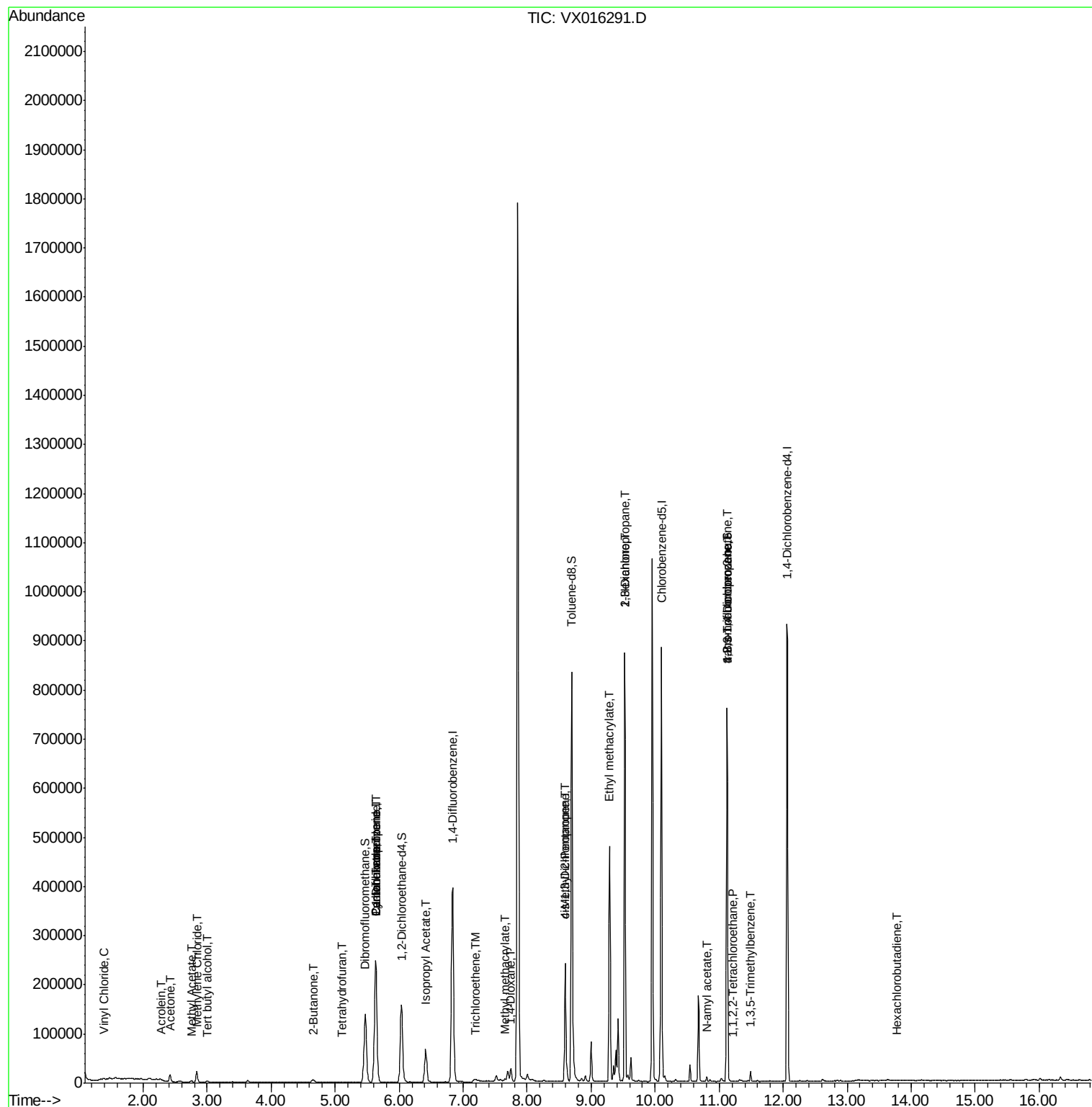
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	666	0.210	ug/l	94
11) Tert butyl alcohol	3.00	59	1111	1.378	ug/l #	92
13) Acrolein	2.28	56	709	1.405	ug/l #	41
16) Acetone	2.42	43	14759	10.374	ug/l	99
17) Carbon Disulfide	2.56	76	1047	Below Cal	#	79
18) Methyl Acetate	2.75	43	3486	0.997	ug/l	94
20) Methylene Chloride	2.84	84	10056	3.429	ug/l	98
25) 2-Butanone	4.65	43	3209	1.400	ug/l	94
29) Tetrahydrofuran	5.10	42	704	0.463	ug/l #	31
31) Cyclohexane	5.63	56	4526	1.022	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	17998	4.462	ug/l #	49
38) Carbon Tetrachloride	5.63	117	23549	5.744	ug/l #	15
43) Isopropyl Acetate	6.42	43	91429	12.257	ug/l	98
44) Trichloroethene	7.19	130	847	0.202	ug/l	81
48) Methyl methacrylate	7.65	41	5751	1.627	ug/l #	14
49) 1,4-Dioxane	7.74	88	19	0.224	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	82591	18.093	ug/l #	45
54) cis-1,3-Dichloropropene	8.60	75	42032	8.165	ug/l #	55
56) Ethyl methacrylate	9.29	69	1227	0.260	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	7463	1.478	ug/l #	44
59) 2-Hexanone	9.52	43	91522	25.531	ug/l #	50
74) N-amyl acetate	10.80	43	4543	0.670	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.22	83	24	2.058	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	98847	21.791	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	8703	0.709	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	98847	51.930	ug/l #	13
94) Hexachlorobutadiene	13.77	225	44	0.545	ug/l #	18

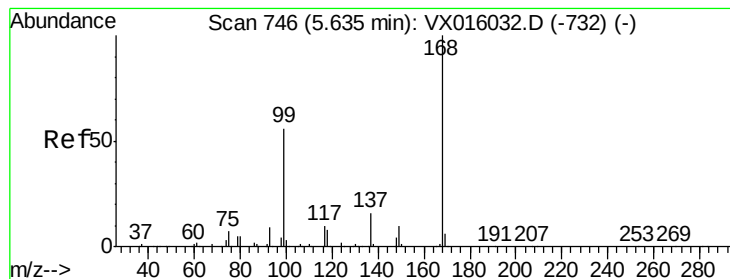
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 16 06:47:11 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: VX016291.D

Acq: 15 May 2020 19:13

Instrument :

MSVOA_X

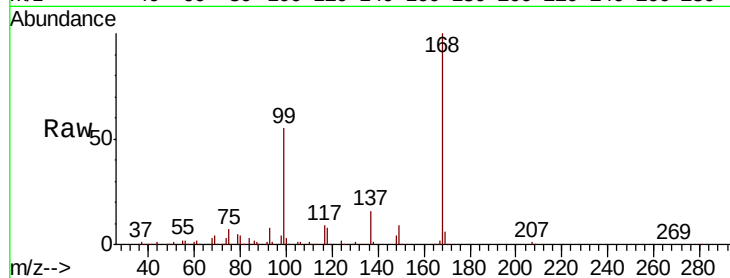
ClientSampleId :

Tot Ion:168 Resp: 242309

Ion Ratio Lower Upper

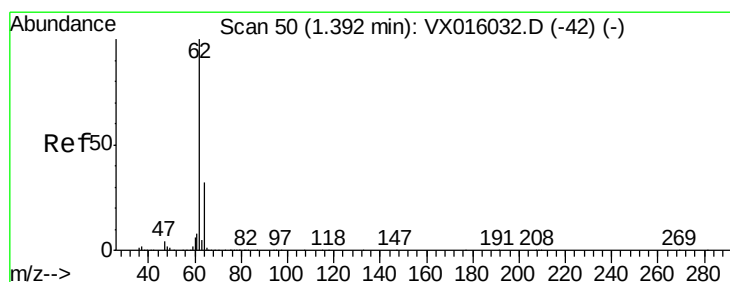
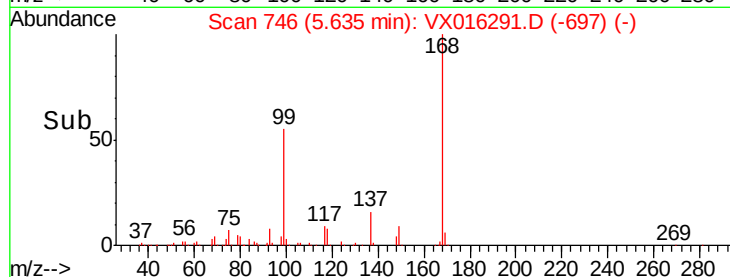
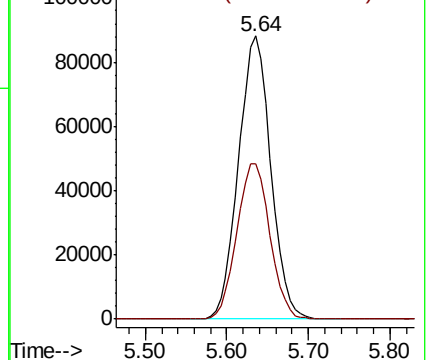
168 100

99 54.9 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: 0.210 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016291.D

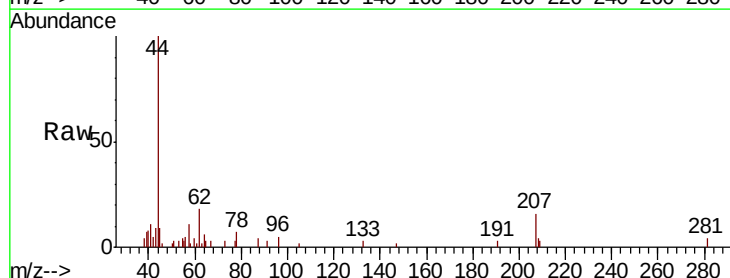
Acq: 15 May 2020 19:13

Tgt Ion: 62 Resp: 666

Ion Ratio Lower Upper

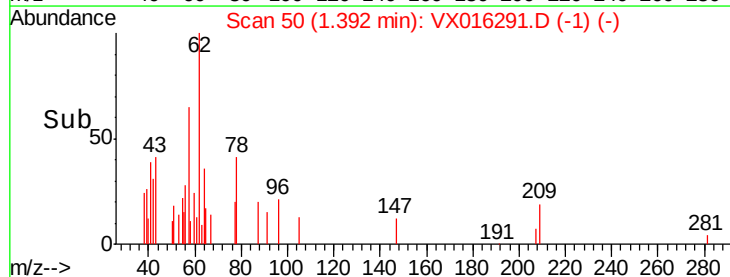
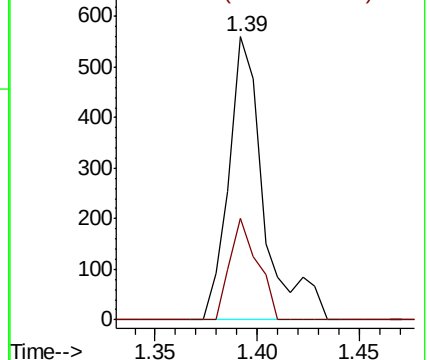
62 100

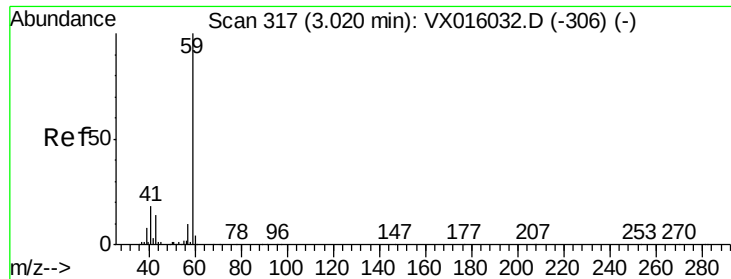
64 35.7 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

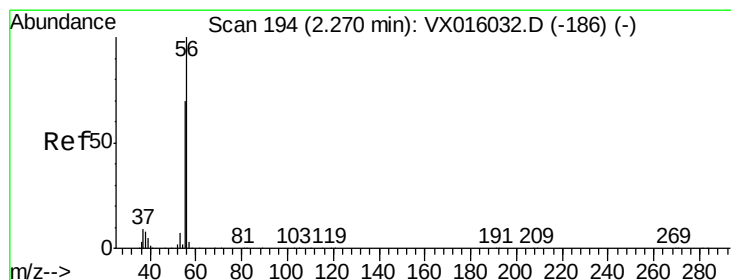
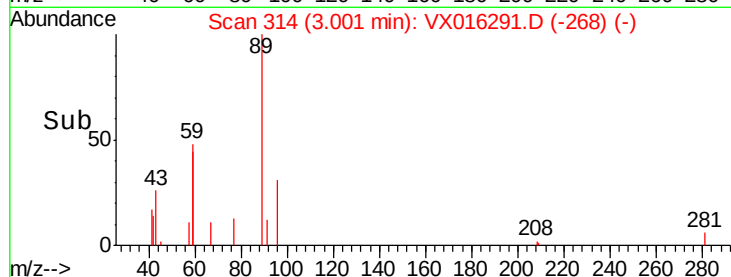
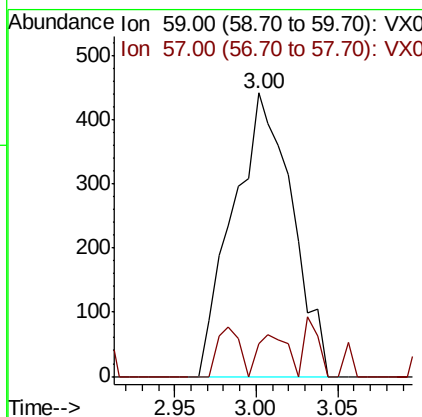
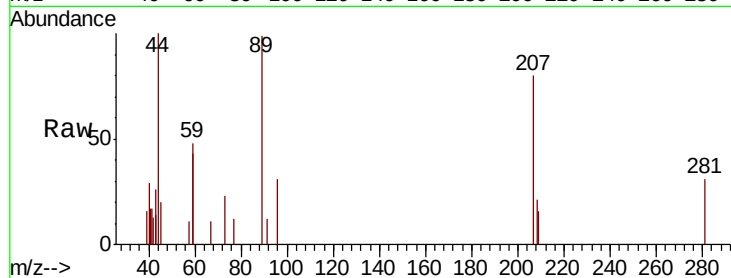




#11
Tert butyl alcohol
Concen: 1.378 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

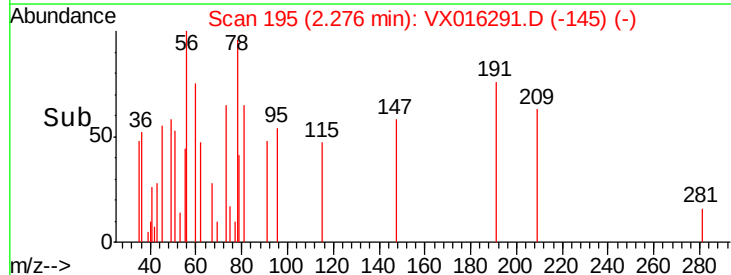
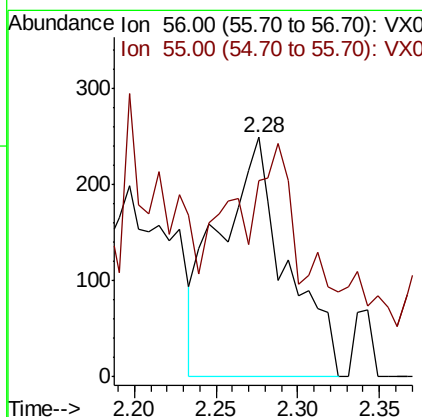
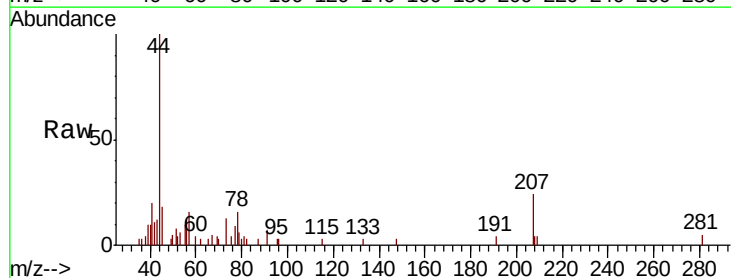
Instrument :
MSVOA_X
ClientSampled :

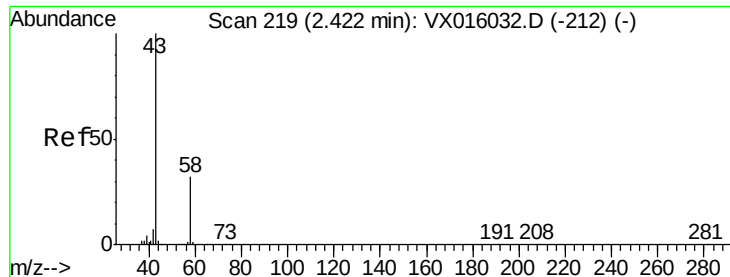
Tot Ion: 59 Resp: 1111
Ion Ratio Lower Upper
59 100
57 7.3 8.2 12.4#



#13
Acrolein
Concen: 1.405 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion: 56 Resp: 709
Ion Ratio Lower Upper
56 100
55 22.3 56.5 84.7#

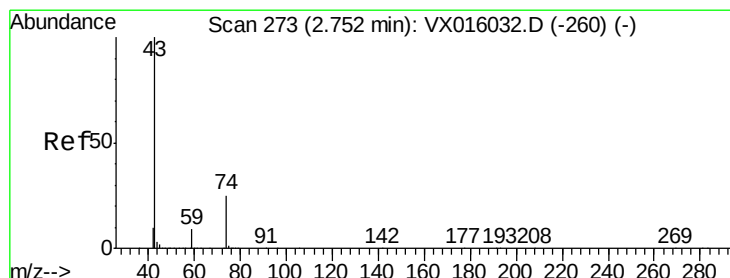
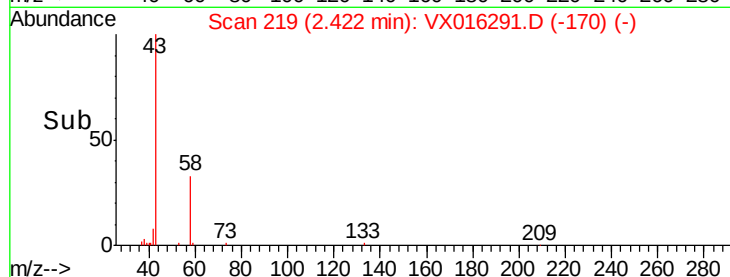
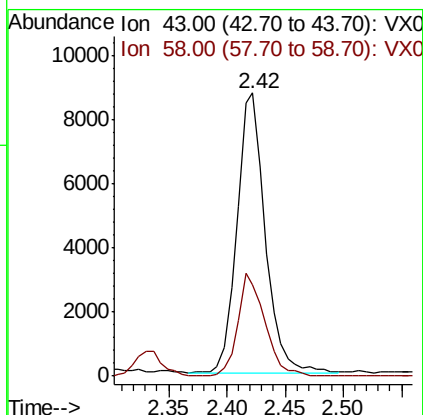
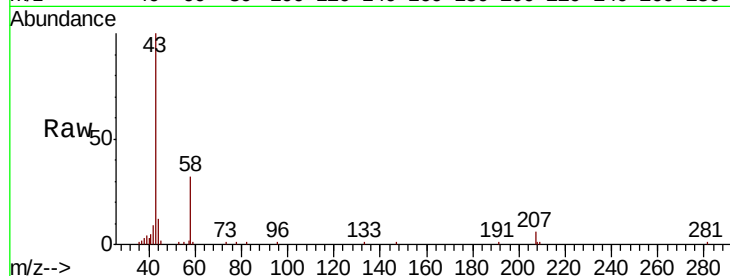




#16
Acetone
Concen: 10.374 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

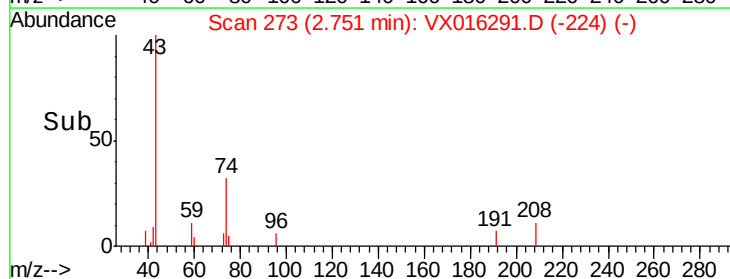
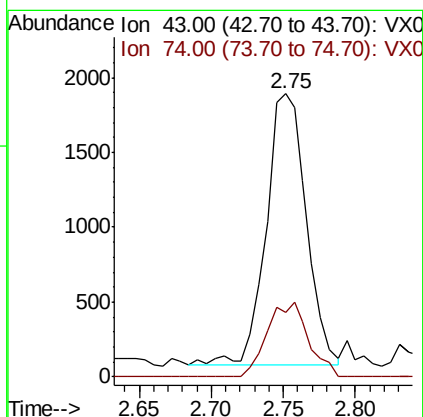
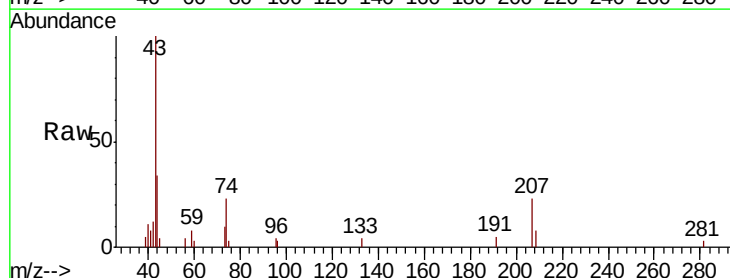
Instrument :
MSVOA_X
ClientSampleId :

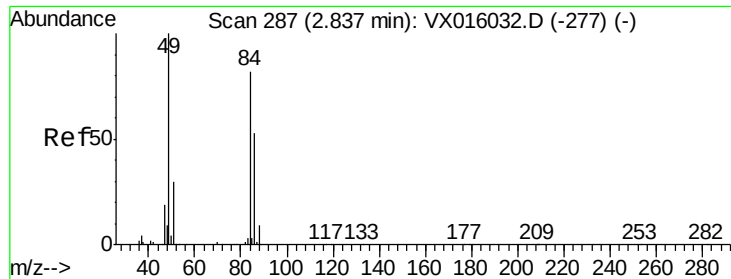
Tot Ion: 43 Resp: 14759
Ion Ratio Lower Upper
43 100
58 32.4 25.4 38.0



#18
Methyl Acetate
Concen: 0.997 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion: 43 Resp: 3486
Ion Ratio Lower Upper
43 100
74 28.4 20.2 30.2

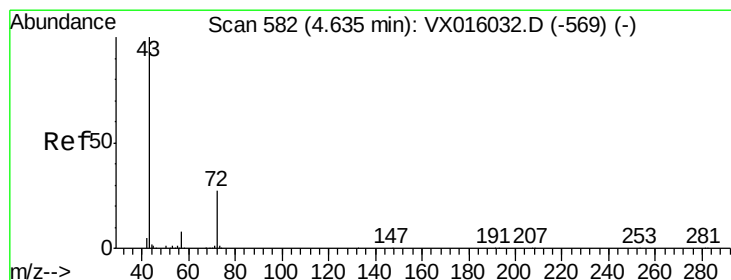
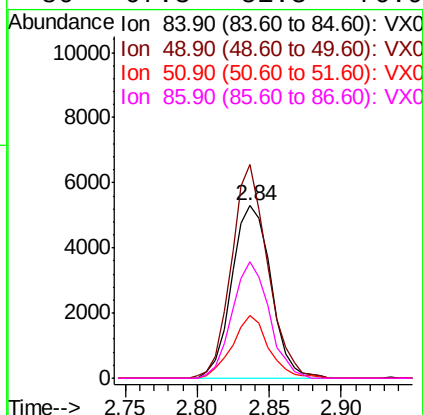
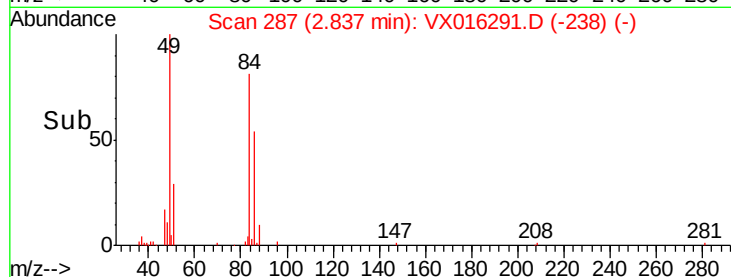
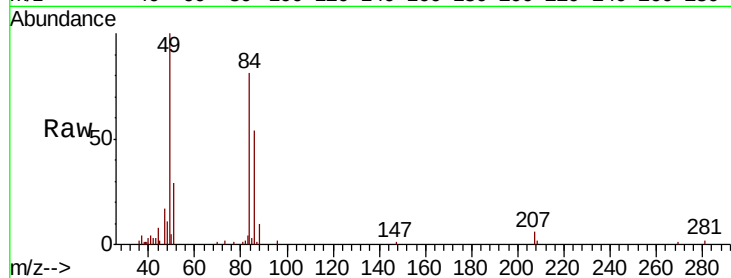




#20
Methylene Chloride
Concen: 3.429 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

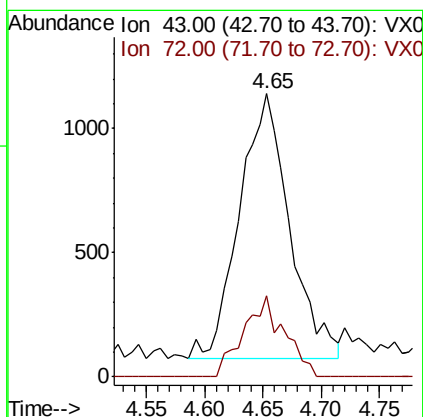
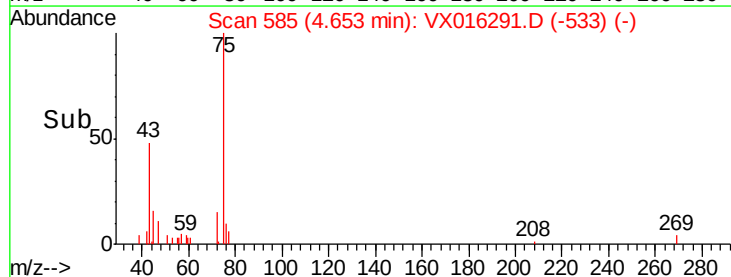
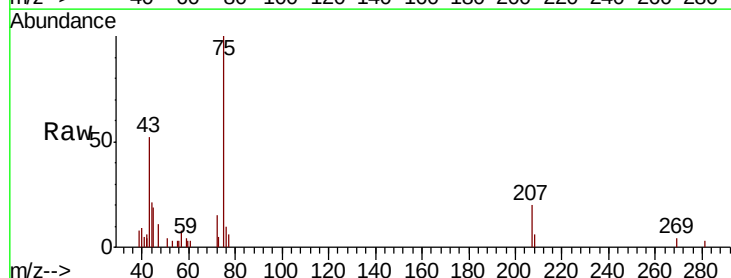
Instrument :
MSVOA_X
ClientSampleId :

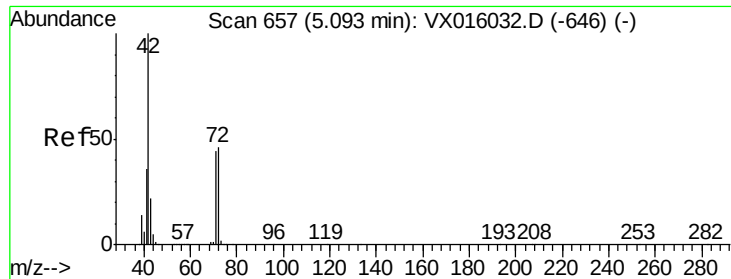
Tot Ion:	84	Resp:	10056
Ion	Ratio	Lower	Upper
84	100		
49	123.7	97.3	145.9
51	36.4	29.3	43.9
86	67.3	51.3	76.9



#25
2-Butanone
Concen: 1.400 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion:	43	Resp:	3209
Ion	Ratio	Lower	Upper
43	100		
72	30.6	21.8	32.8





#29

Tetrahydrofuran

Concen: 0.463 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016291.D

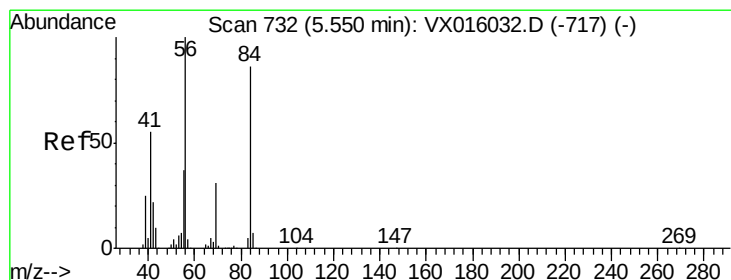
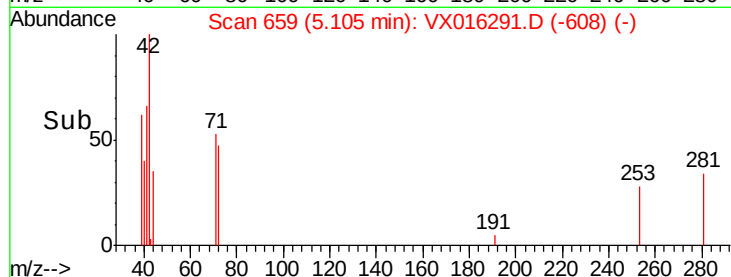
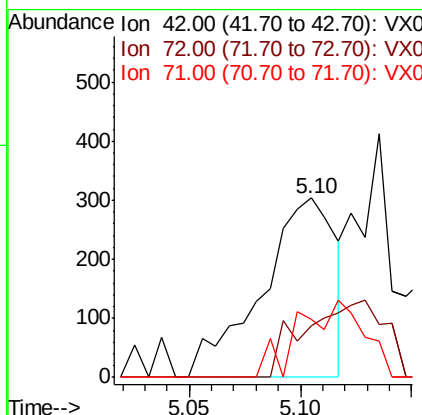
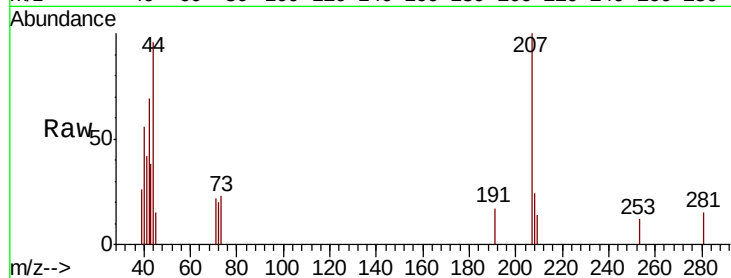
Acq: 15 May 2020 19:13

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	704
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.1	55.7#
71	0.0	34.5	51.7#



#31

Cyclohexane

Concen: 1.022 ug/l

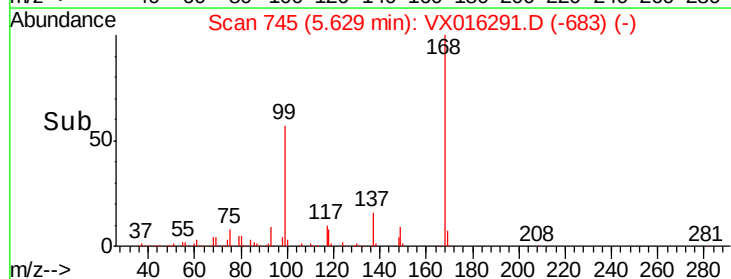
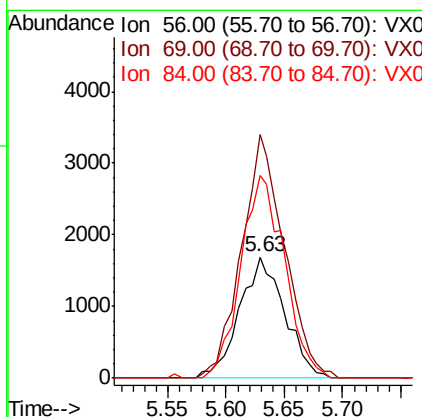
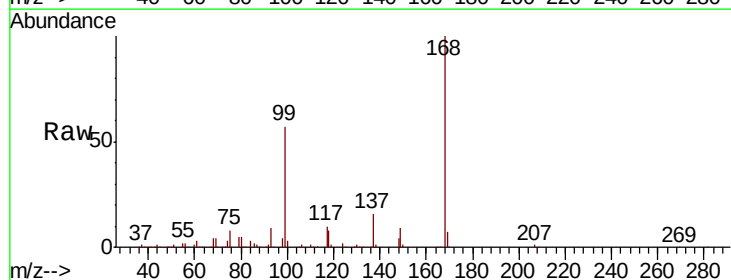
RT: 5.63 min Scan# 745

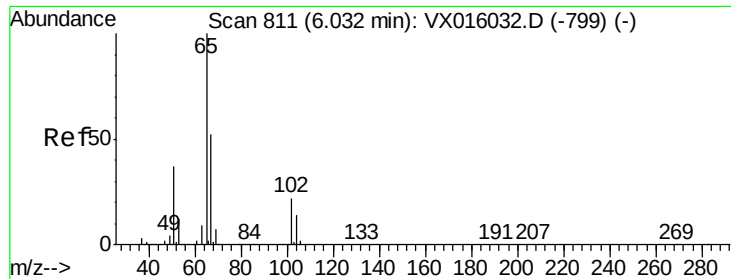
Delta R.T. 0.08 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

Tgt Ion:	56	Resp:	4526
Ion	Ratio	Lower	Upper
56	100		
69	201.5	25.0	37.6#
84	168.2	69.0	103.6#

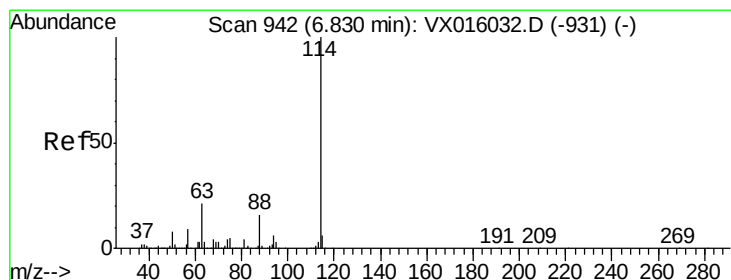
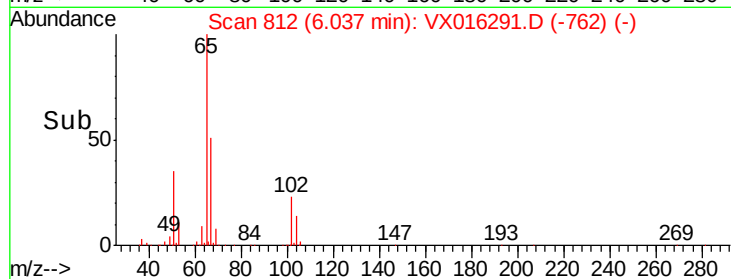
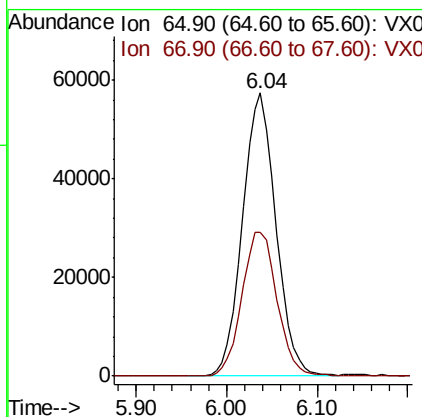
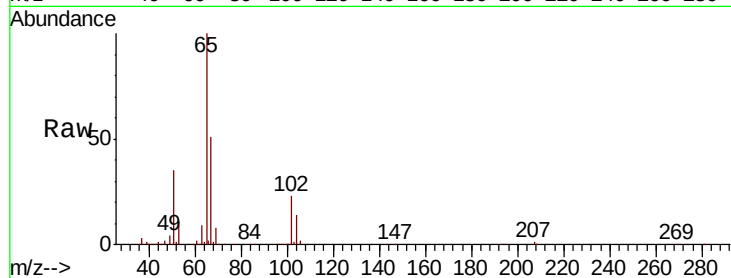




#33
 1,2-Dichloroethane-d4
 Concen: 46.024 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

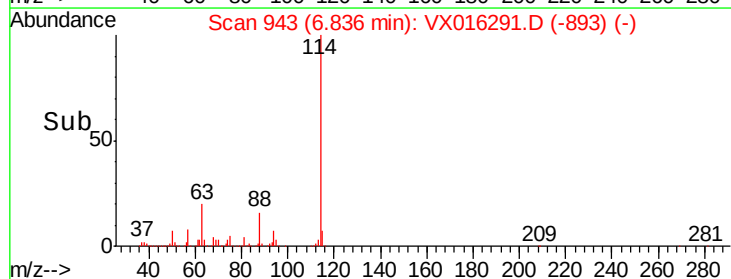
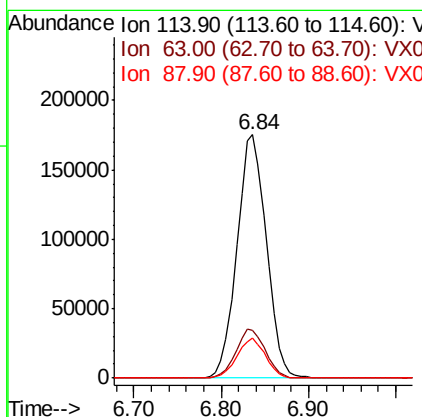
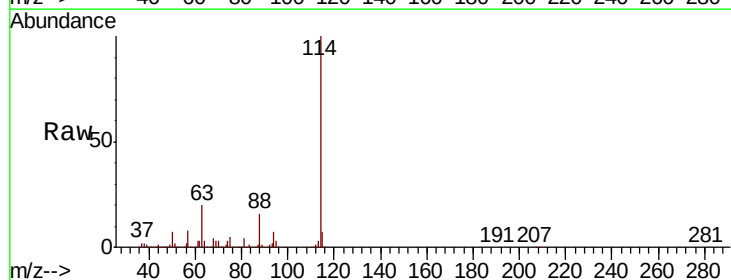
Instrument :
 MSVOA_X
 ClientSampleId :

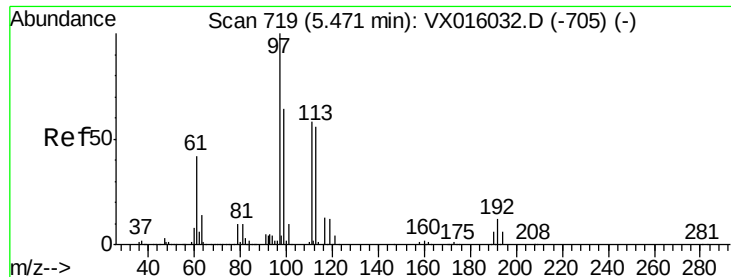
Tot Ion: 65 Resp: 146748
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Tgt Ion: 114 Resp: 409778
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.8
 88 16.3 0.0 31.4

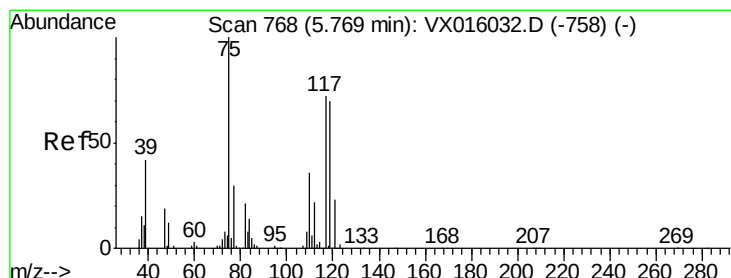
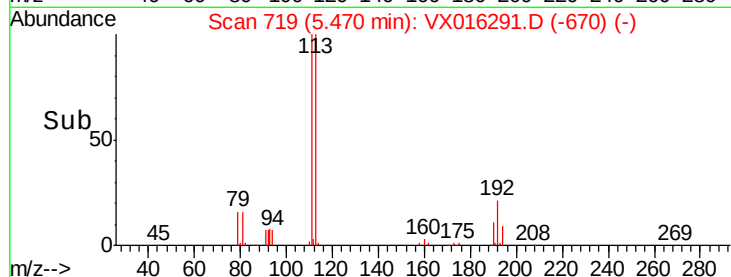
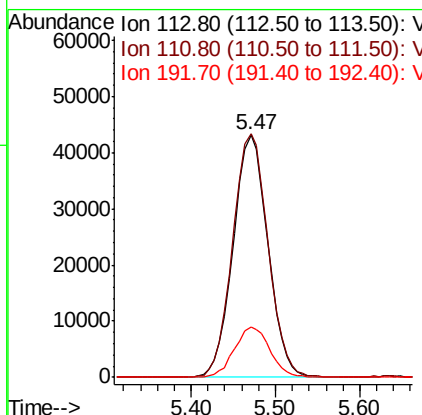
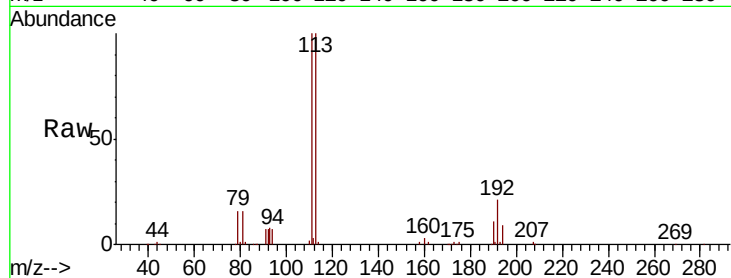




#35
 Dibromofluoromethane
 Concen: 46.365 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

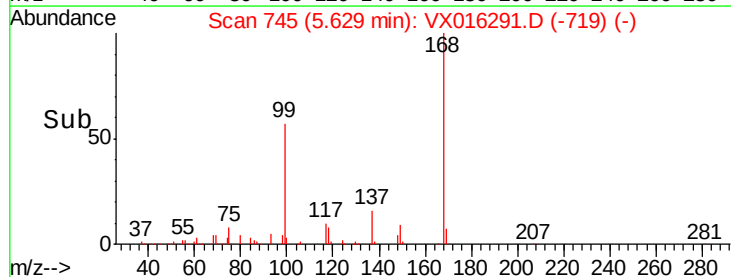
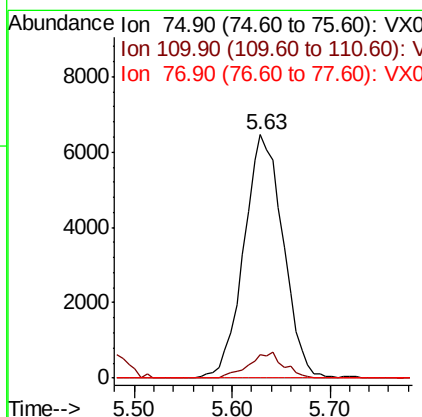
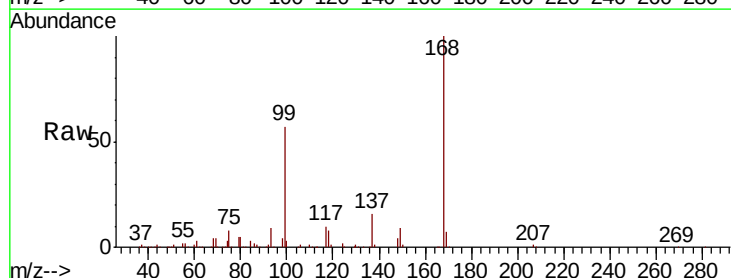
Instrument :
 MSVOA_X
 ClientSampled :

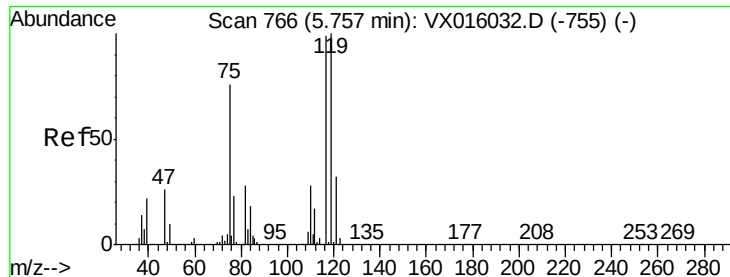
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.6	122.4
192	21.2	17.0	25.4



#36
 1,1-Dichloropropene
 Concen: 4.462 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.1#
77	0.0	25.0	37.6#

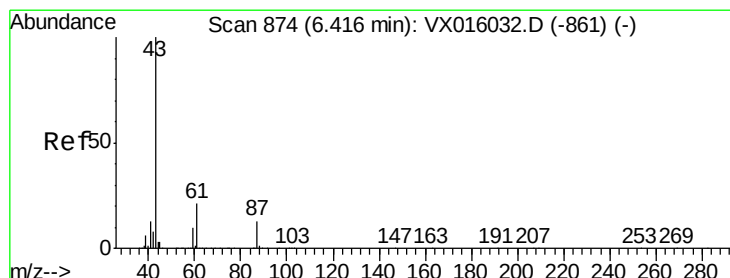
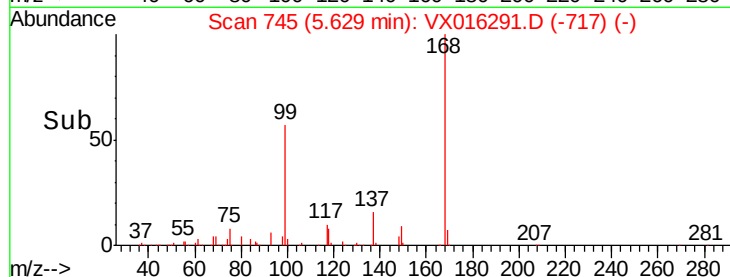
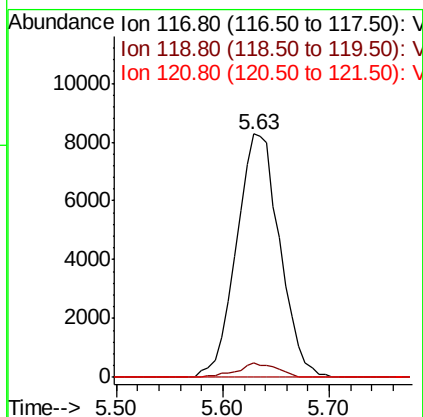
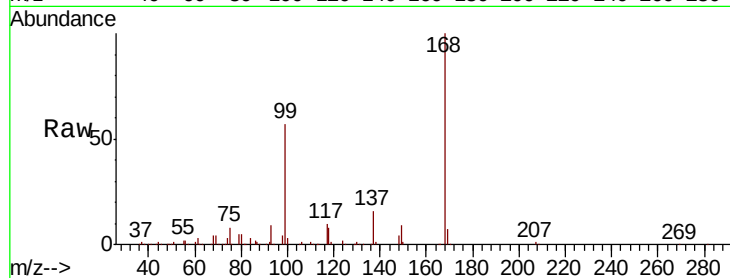




#38
Carbon Tetrachloride
Concen: 5.744 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

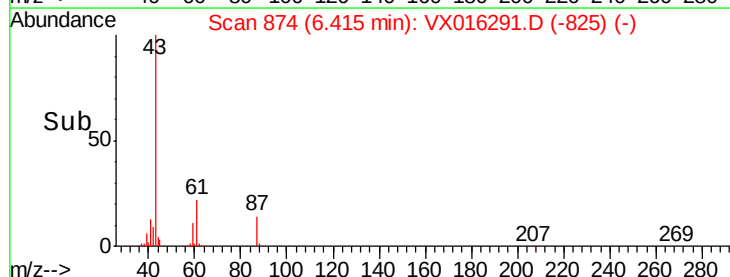
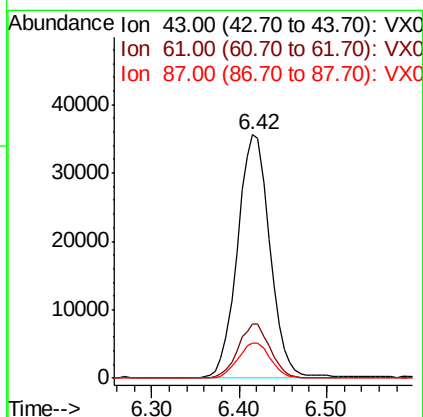
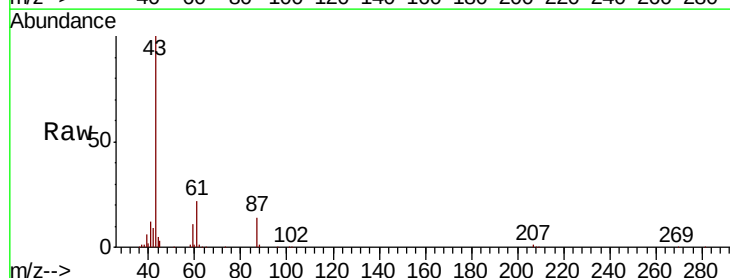
Instrument :
MSVOA_X
ClientSampled :

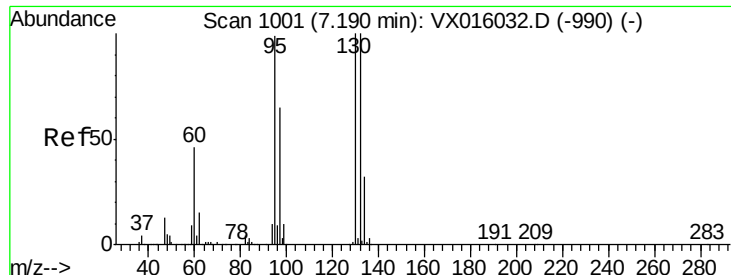
Tot Ion:117 Resp: 23549
Ion Ratio Lower Upper
117 100
119 5.9 80.3 120.5#
121 0.0 25.7 38.5#



#43
Isopropyl Acetate
Concen: 12.257 ug/l
RT: 6.42 min Scan# 874
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion: 43 Resp: 91429
Ion Ratio Lower Upper
43 100
61 22.1 17.0 25.4
87 14.6 11.0 16.6

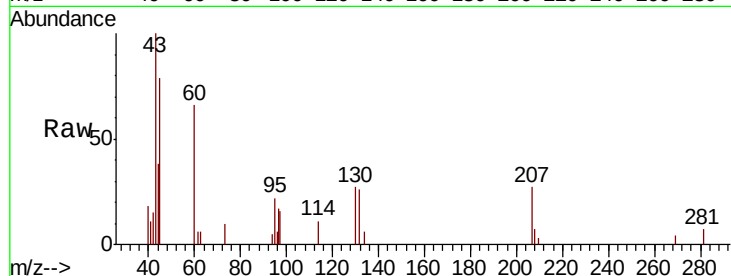




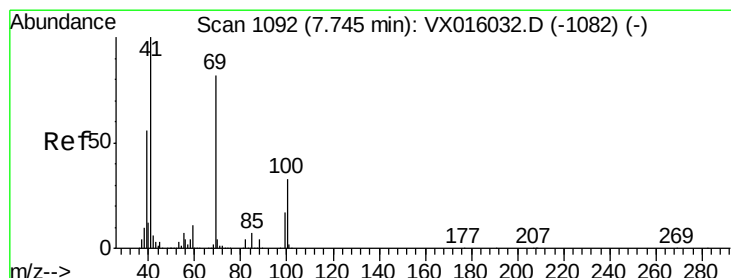
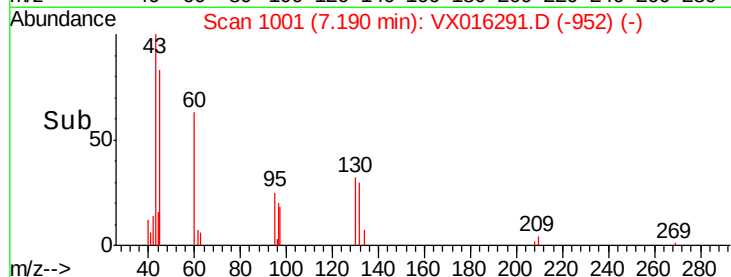
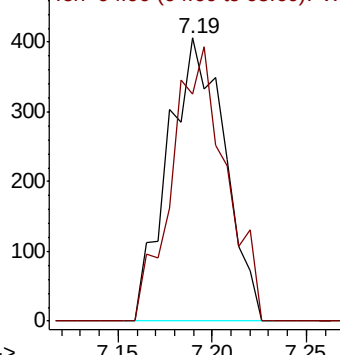
#44
 Trichloroethene
 Concen: 0.202 ug/l
 RT: 7.19 min Scan# 1001
 Delta R.T. -0.00 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:130 Resp: 847
 Ion Ratio Lower Upper
 130 100
 95 80.3 0.0 197.4

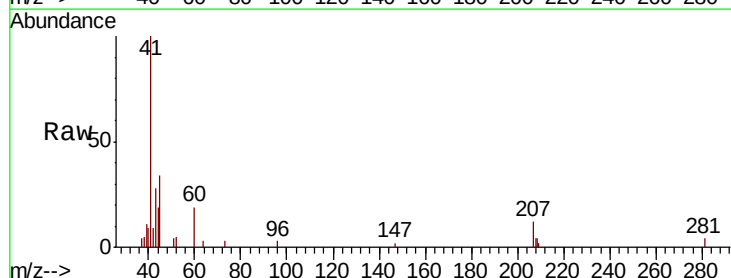


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

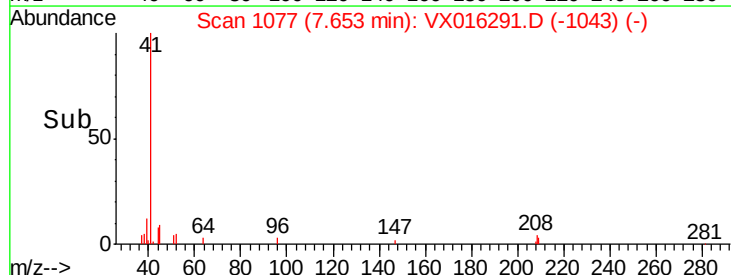
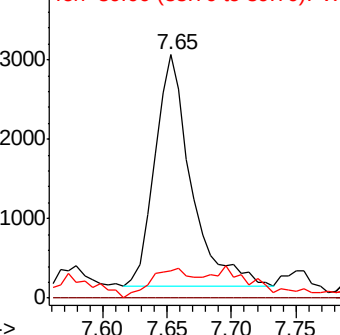


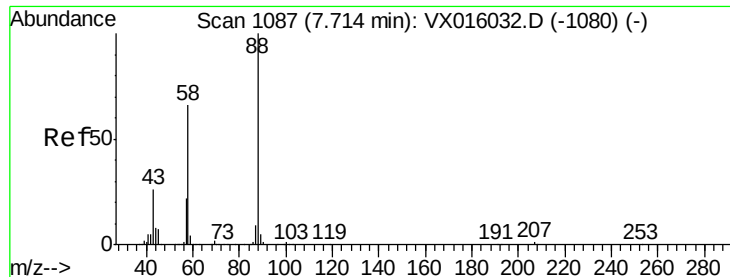
#48
 Methyl methacrylate
 Concen: 1.627 ug/l
 RT: 7.65 min Scan# 1077
 Delta R.T. -0.09 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Tgt Ion: 41 Resp: 5751
 Ion Ratio Lower Upper
 41 100
 69 0.0 67.8 101.6#
 39 0.0 44.6 67.0#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0

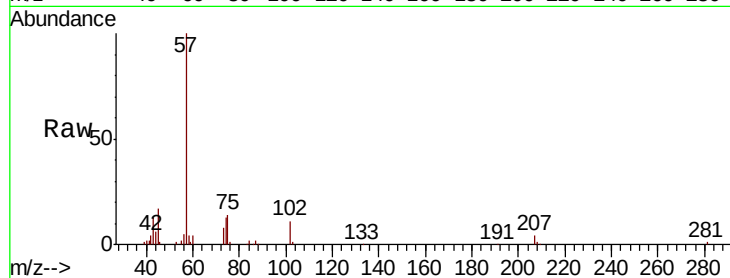




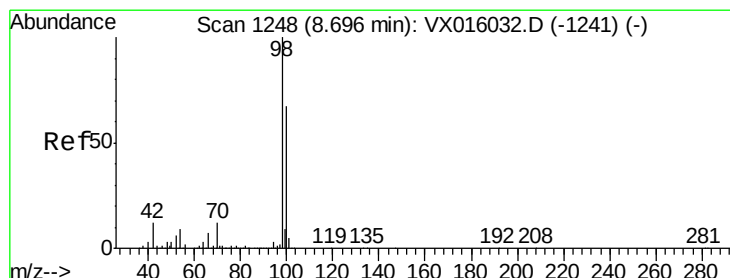
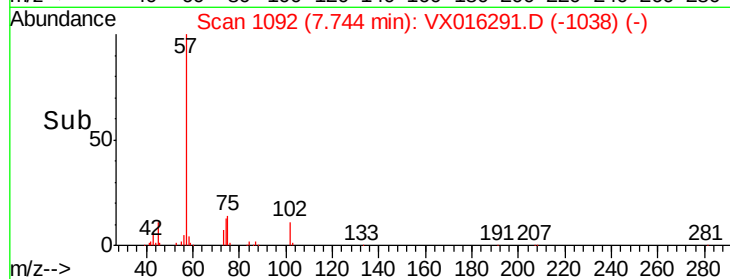
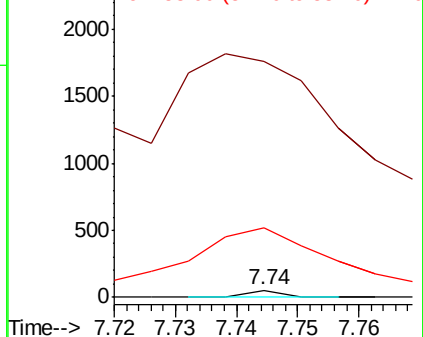
#49
 1,4-Dioxane
 Concen: 0.224 ug/l
 RT: 7.74 min Scan# 1092
 Delta R.T. 0.03 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 0.0 25.3 37.9#
 58 4589.5 55.9 83.9#

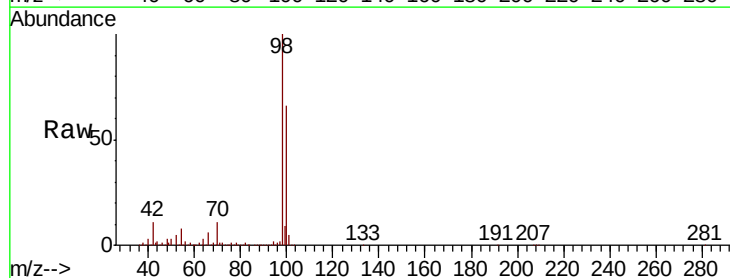


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

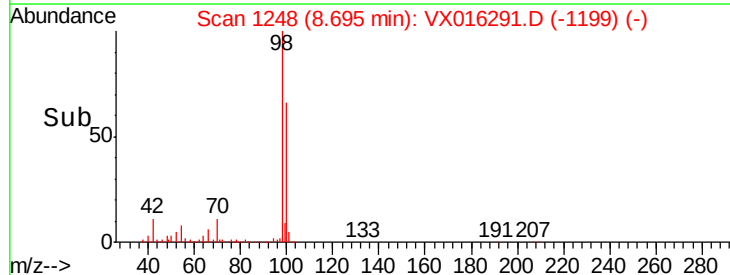
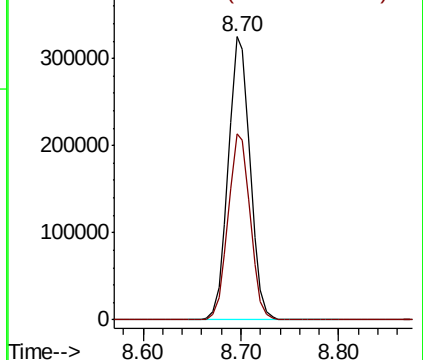


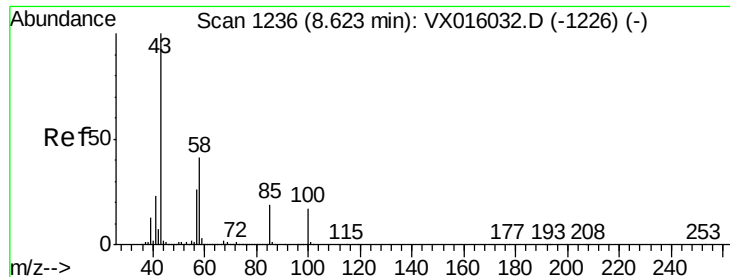
#50
 Toluene-d8
 Concen: 50.335 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Tgt Ion: 98 Resp: 503499
 Ion Ratio Lower Upper
 98 100
 100 66.5 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0

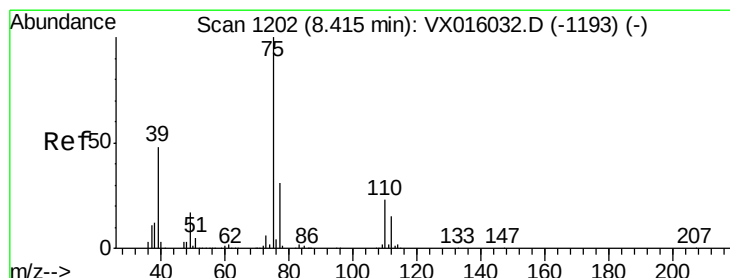
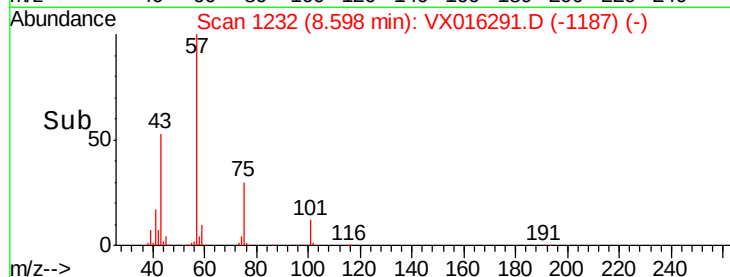
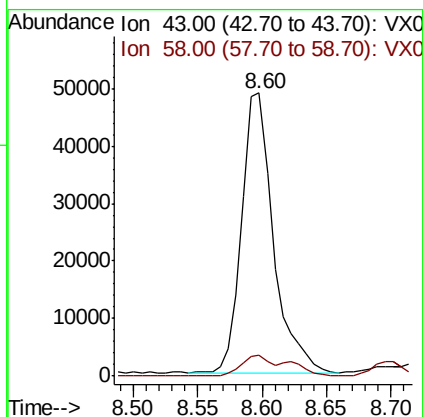
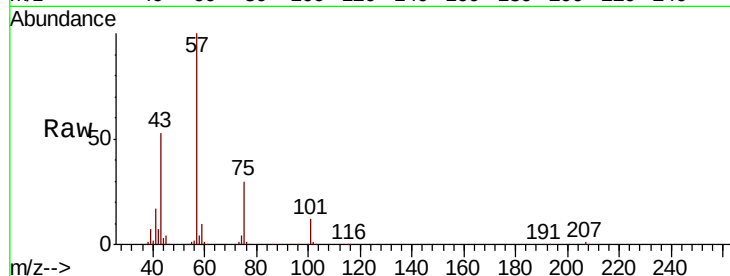




#51
 4-Methyl-2-Pentanone
 Concen: 18.093 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

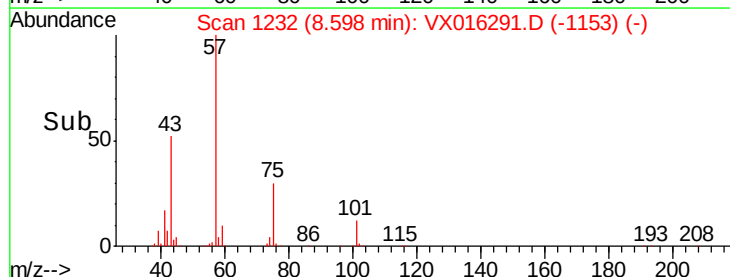
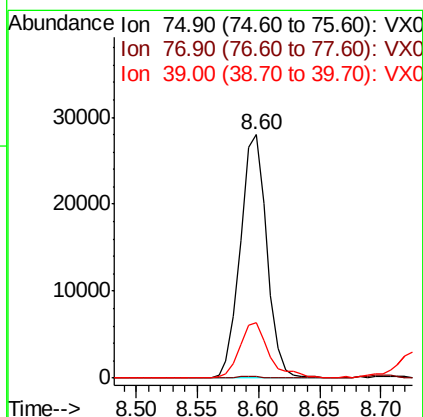
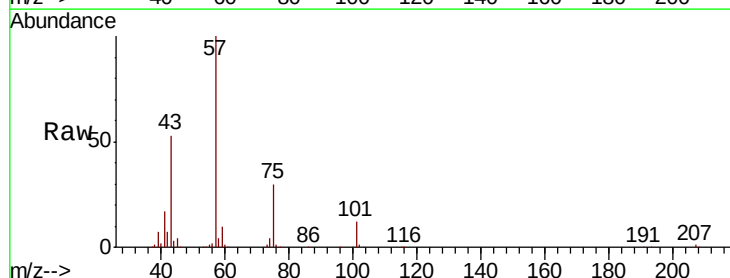
Instrument :
 MSVOA_X
 ClientSampled :

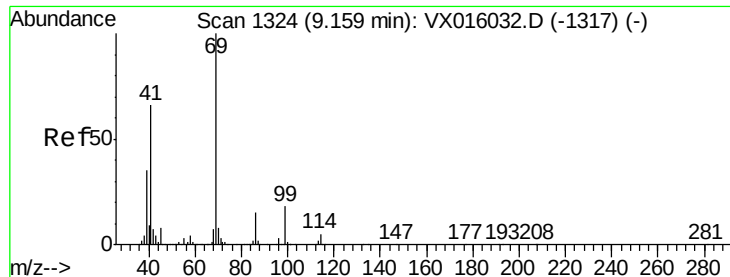
Tot Ion: 43 Resp: 82591
 Ion Ratio Lower Upper
 43 100
 58 6.8 33.0 49.4#



#54
 cis-1,3-Dichloropropene
 Concen: 8.165 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. 0.18 min
 Lab File: VX016291.D
 Acq: 15 May 2020 19:13

Tgt Ion: 75 Resp: 42032
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.7 37.1#
 39 22.4 38.7 58.1#





#56

Ethyl methacrylate

Concen: 0.260 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

Instrument :
MSVOA_X
ClientSampled :

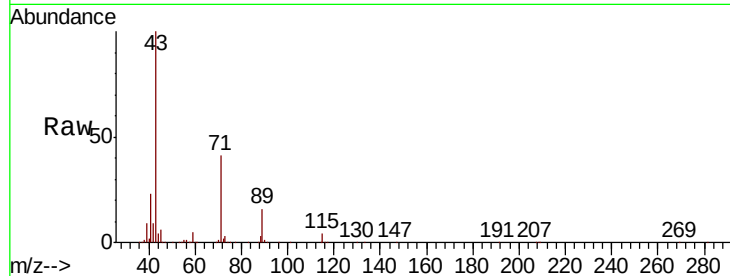
Tot Ion: 69 Resp: 1227

Ion Ratio Lower Upper

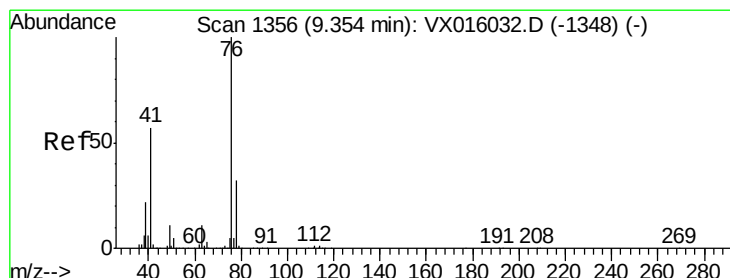
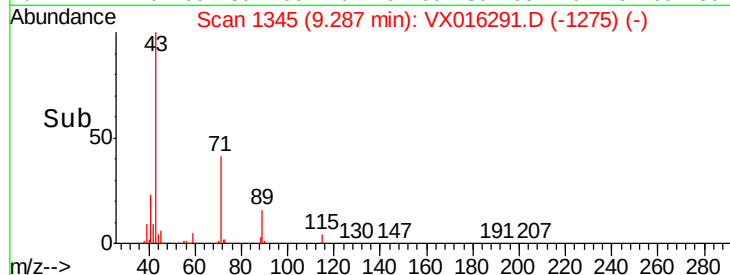
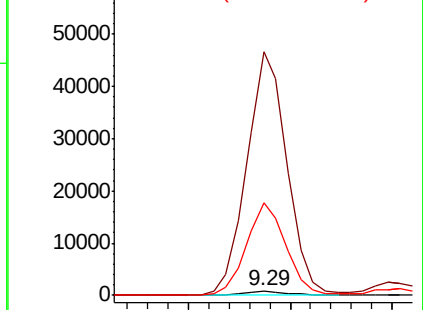
69 100

41 5189.7 52.2 78.4#

39 1950.9 28.2 42.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0
Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.478 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016291.D

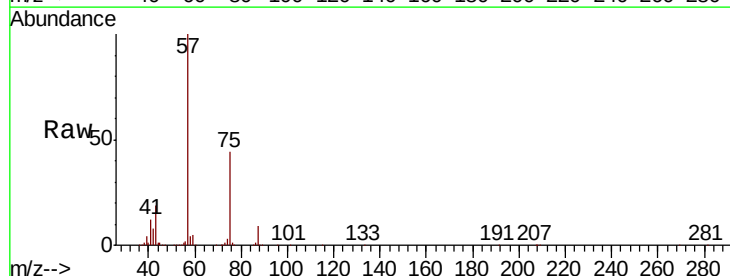
Acq: 15 May 2020 19:13

Tgt Ion: 76 Resp: 7463

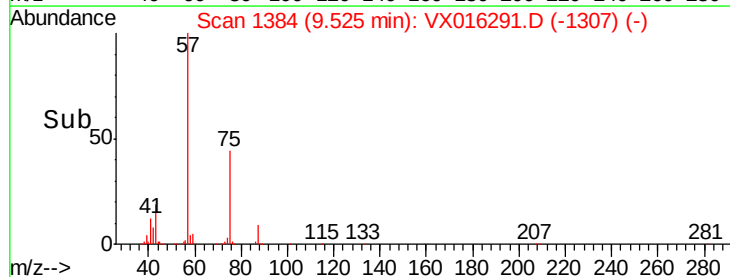
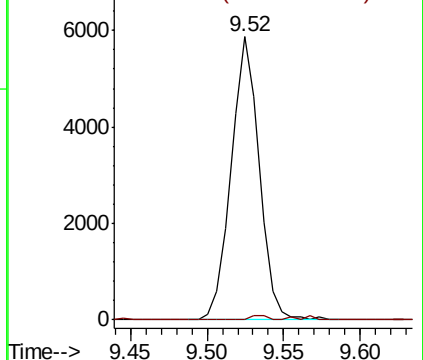
Ion Ratio Lower Upper

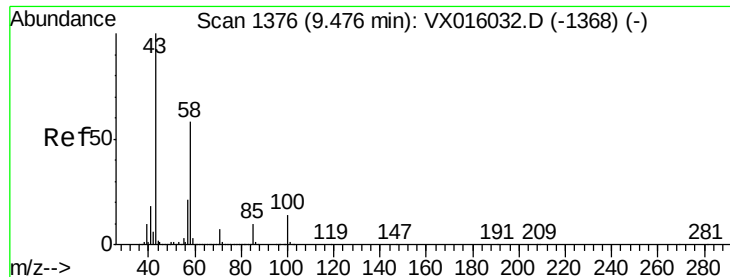
76 100

78 0.9 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0
Ion 77.90 (77.60 to 78.60): VX0

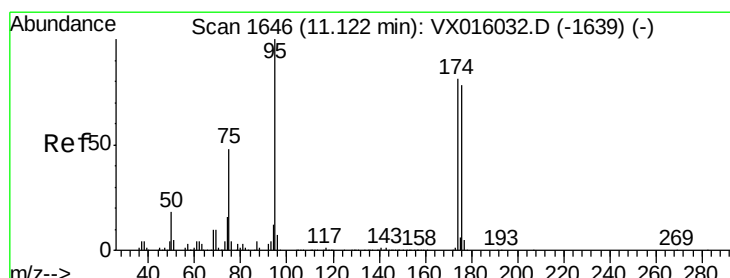
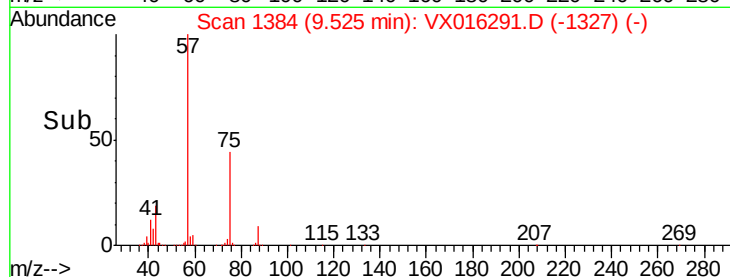
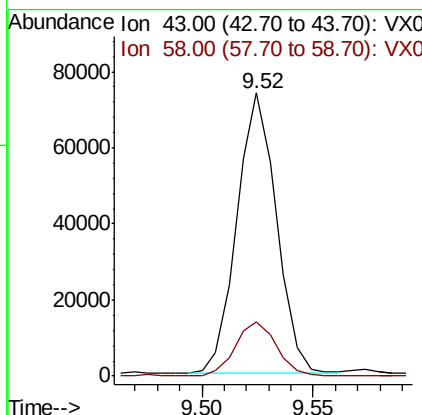
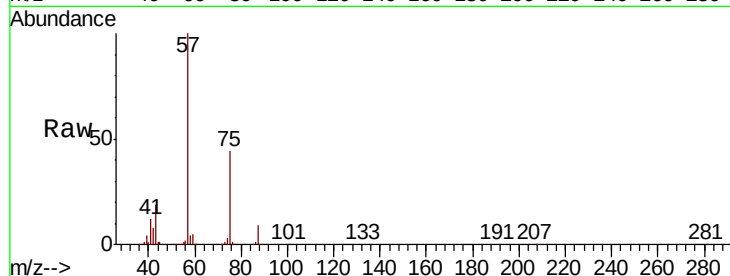




#59
2-Hexanone
Concen: 25.531 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

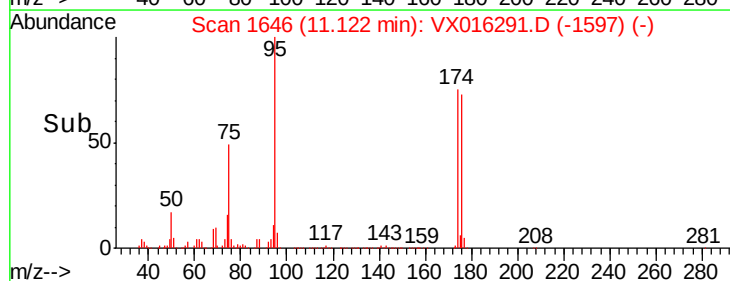
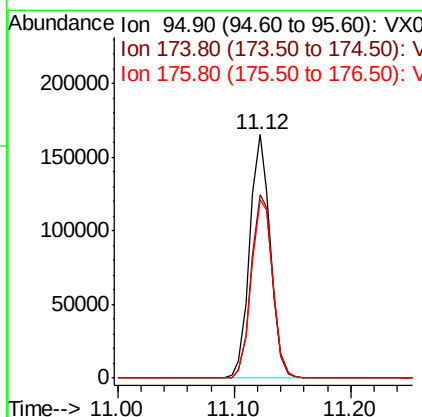
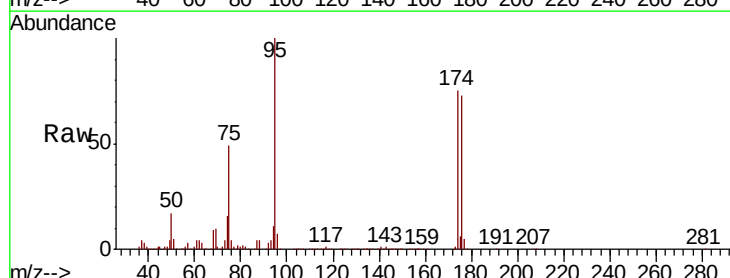
Instrument :
MSVOA_X
ClientSampled :

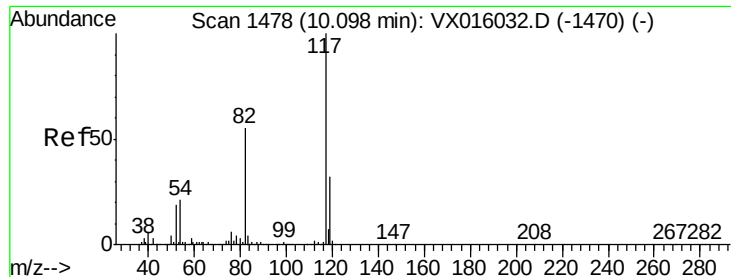
Tot Ion: 43 Resp: 91522
Ion Ratio Lower Upper
43 100
58 20.3 28.6 85.9#



#62
4-Bromofluorobenzene
Concen: 53.513 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion: 95 Resp: 203600
Ion Ratio Lower Upper
95 100
174 78.6 0.0 159.4
176 76.8 0.0 157.6

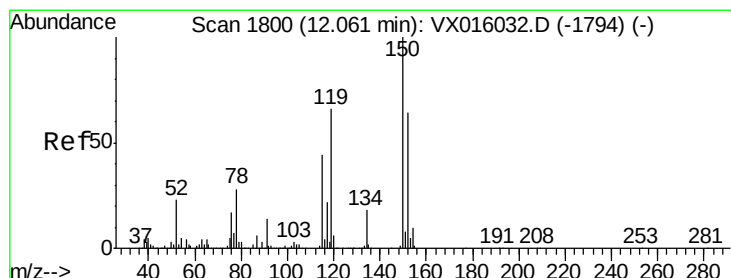
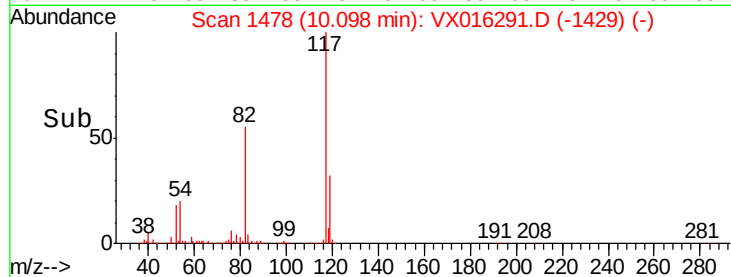
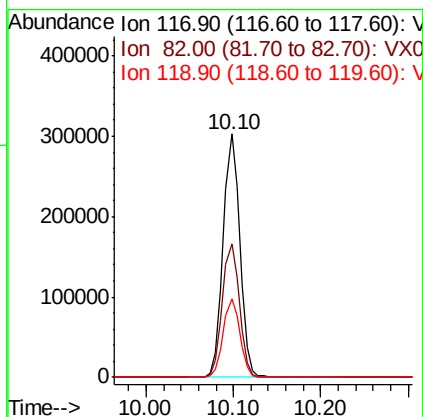
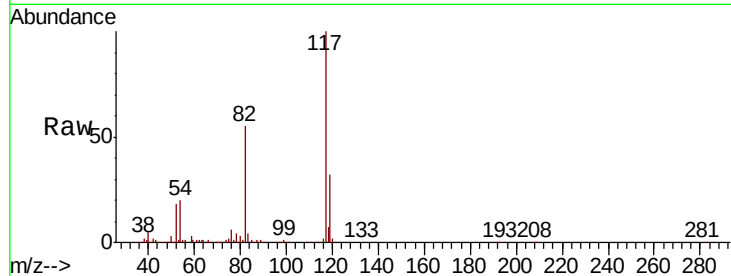




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

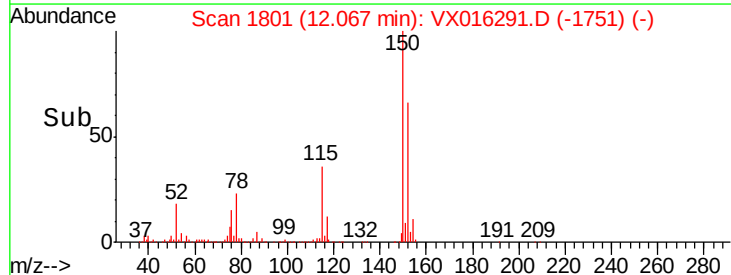
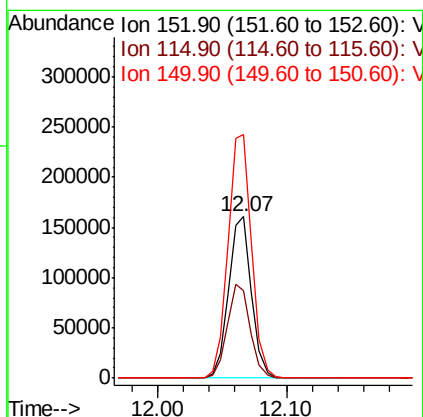
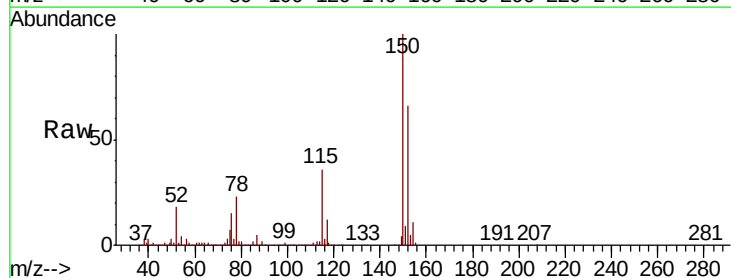
Instrument :
MSVOA_X
ClientSampleId :

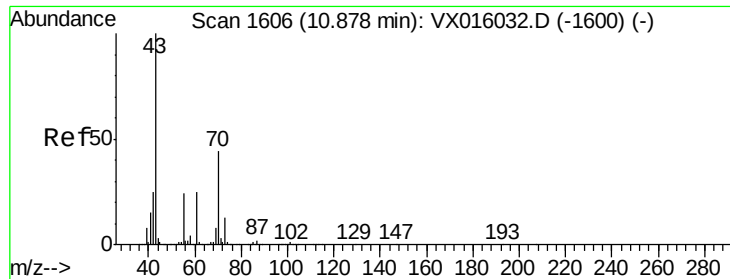
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.4	66.6
119	32.4	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1801
Delta R.T. 0.01 min
Lab File: VX016291.D
Acq: 15 May 2020 19:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.5	41.3	124.1
150	155.6	0.0	352.2





#74

N-amvl acetate

Concen: 0.670 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 4543

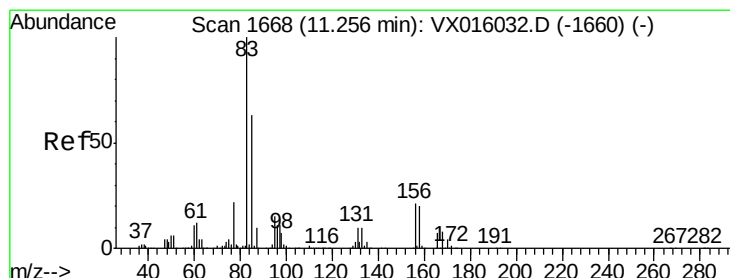
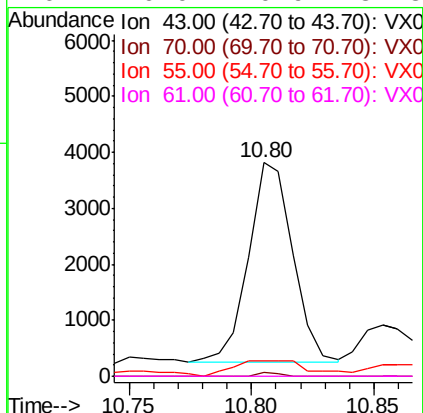
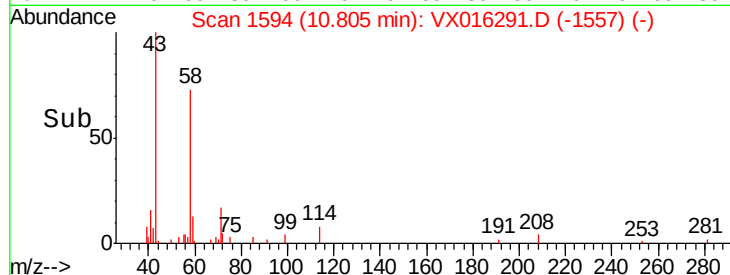
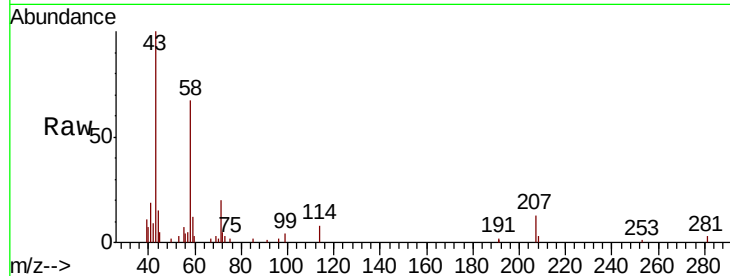
Ion Ratio Lower Upper

43 100

70 0.0 36.5 54.7#

55 13.5 19.7 29.5#

61 0.0 20.9 31.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.058 ug/l

RT: 11.22 min Scan# 1662

Delta R.T. -0.04 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

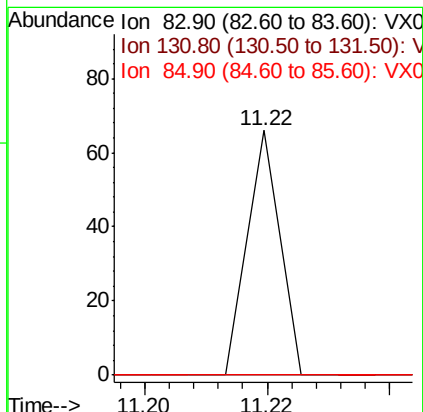
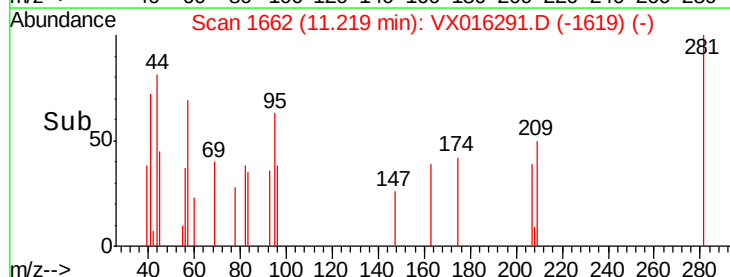
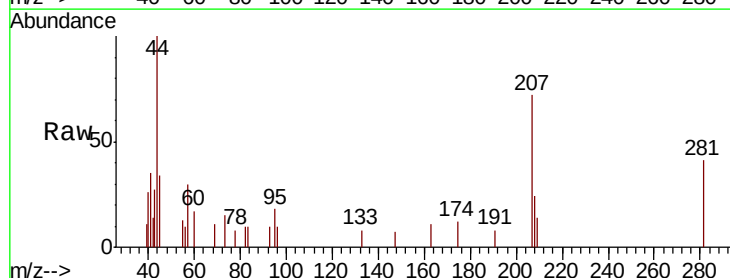
Tgt Ion: 83 Resp: 24

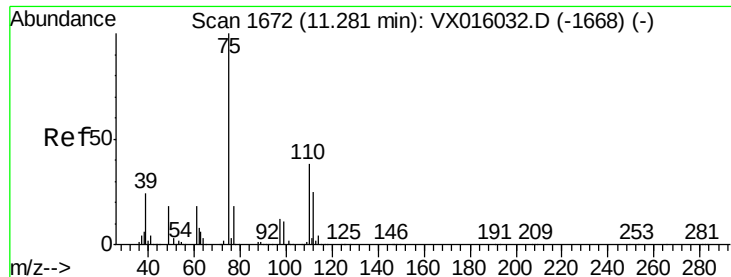
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 0.0 32.0 96.0#





#76

1,2,3-Trichloropropane

Concen: 21.791 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

Instrument :

MSVOA_X

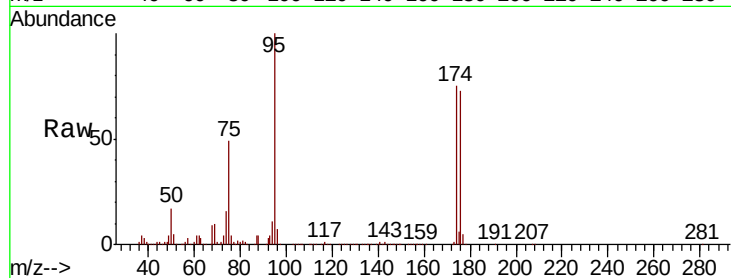
ClientSampleId :

Tot Ion: 75 Resp: 98847

Ion Ratio Lower Upper

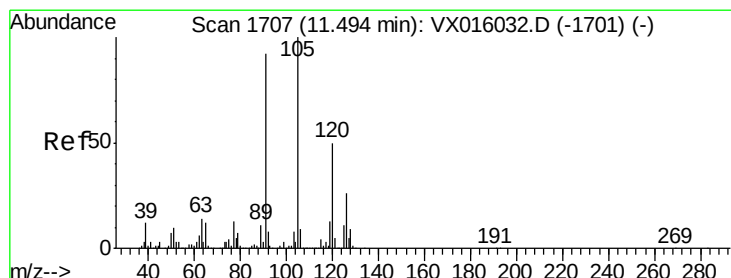
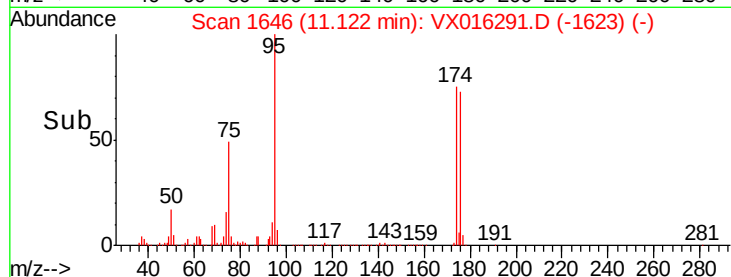
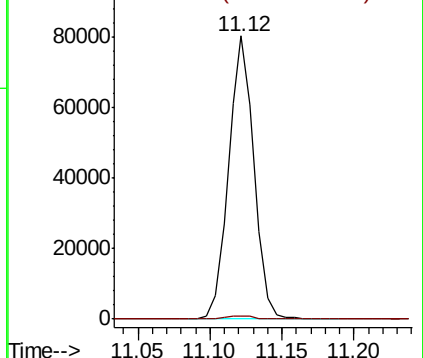
75 100

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



#80

1,3,5-Trimethylbenzene

Concen: 0.709 ug/l

RT: 11.49 min Scan# 1707

Delta R.T. -0.00 min

Lab File: VX016291.D

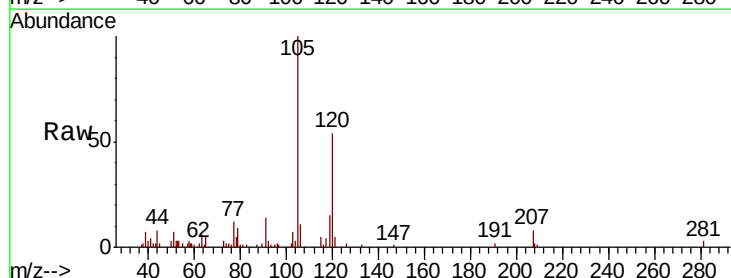
Acq: 15 May 2020 19:13

Tgt Ion: 105 Resp: 8703

Ion Ratio Lower Upper

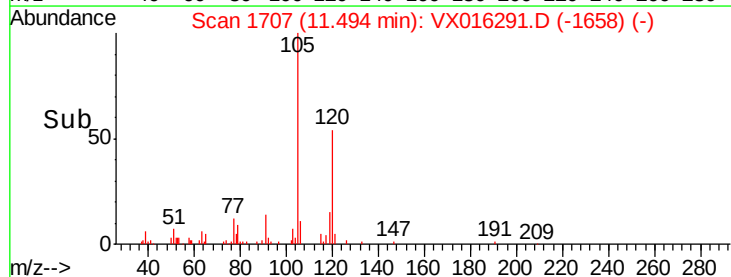
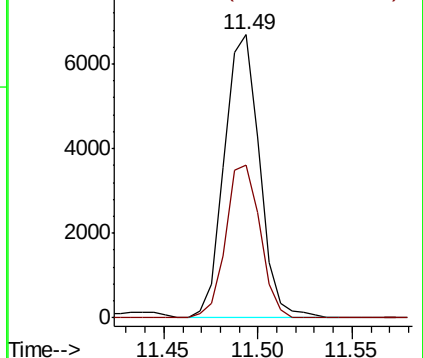
105 100

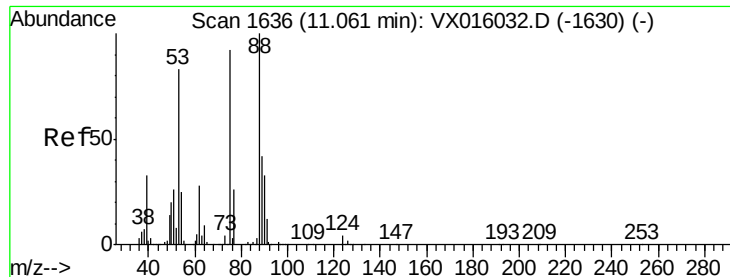
120 52.5 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 51.930 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

Instrument :

MSVOA_X

ClientSampleId :

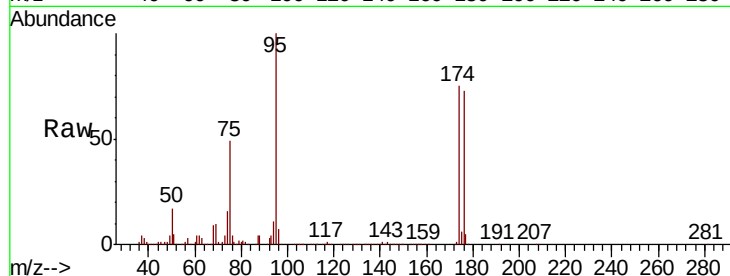
Tot Ion: 75 Resp: 98847

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

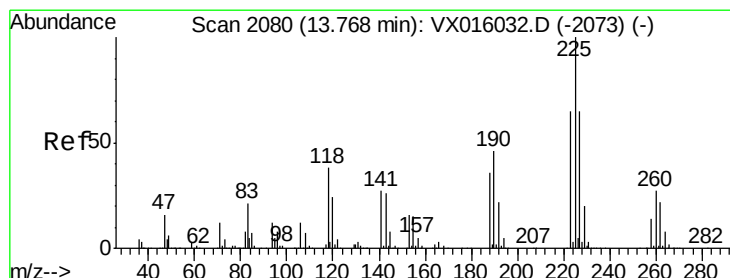
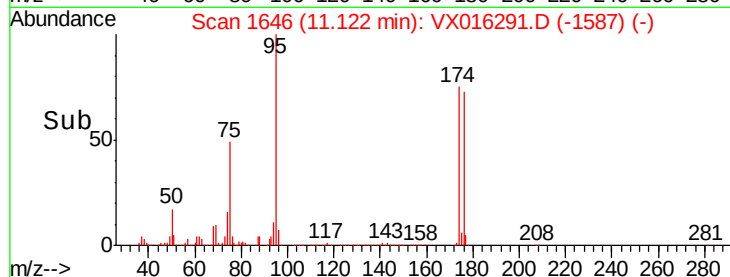
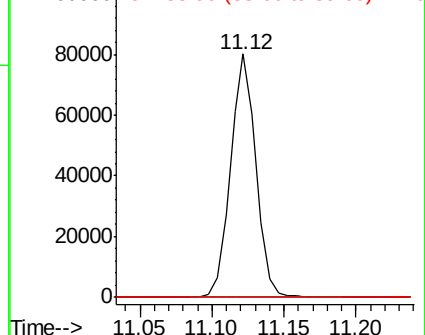
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#94

Hexachlorobutadiene

Concen: 0.545 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX016291.D

Acq: 15 May 2020 19:13

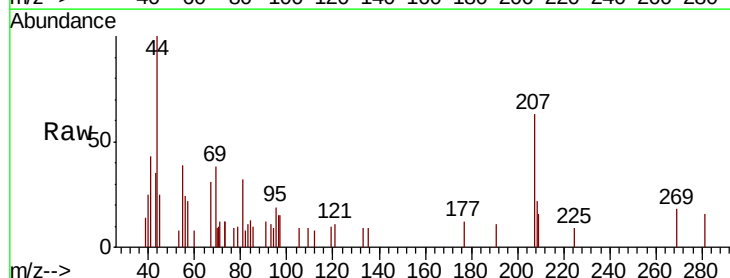
Tgt Ion: 225 Resp: 44

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

