

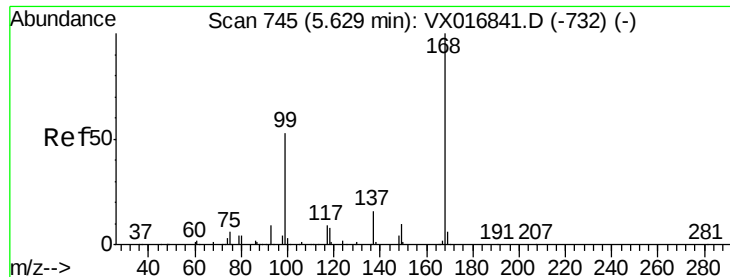
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061820\
 Data File : VX016863.D
 Acq On : 19 Jun 2020 01:25
 Operator : JC/SP
 Sample : L2818-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-061720

Quant Time: Jun 19 03:05:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 18 15:20:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	249847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	414290	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	388144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	221947	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	147025	48.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.86%	
35) Dibromofluoromethane	5.46	113	138774	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
50) Toluene-d8	8.70	98	569777	53.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.48%	
62) 4-Bromofluorobenzene	11.12	95	205031	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	55	Below Cal	#	43
5) Bromomethane	1.64	94	385	Below Cal	#	35
11) Tert butyl alcohol	3.00	59	1614	3.177	ug/l #	83
13) Acrolein	2.27	56	175	0.568	ug/l #	1
16) Acetone	2.42	43	19012	5.962	ug/l	99
18) Methyl Acetate	2.75	43	2487	0.897	ug/l #	87
20) Methylene Chloride	2.84	84	9924	3.794	ug/l	96
25) 2-Butanone	4.64	43	7428	4.948	ug/l	96
29) Tetrahydrofuran	5.11	42	1092	1.155	ug/l #	46
36) 1,1-Dichloropropene	5.63	75	16704	4.367	ug/l #	48
38) Carbon Tetrachloride	5.64	117	24246	5.649	ug/l #	17
43) Isopropyl Acetate	6.41	43	48880	8.282	ug/l	98
48) Methyl methacrylate	7.65	41	3580	1.288	ug/l #	12
49) 1,4-Dioxane	7.85	88	87	1.398	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	47413	13.356	ug/l #	45
52) Toluene	8.77	92	2095	0.275	ug/l	100
54) cis-1,3-Dichloropropene	8.59	75	23169	4.734	ug/l #	59
56) Ethyl methacrylate	9.29	69	844	0.203	ug/l #	1
57) 1,3-Dichloropropane	9.52	76	3555	0.729	ug/l #	42
59) 2-Hexanone	9.42	43	40088	5.800	ug/l #	21
73) Isopropylbenzene	11.01	105	486	Below Cal		91
74) N-amyl acetate	10.80	43	3228	0.647	ug/l #	43
76) 1,2,3-Trichloropropane	11.12	75	98163	24.075	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.49	105	674	0.258	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.12	75	98163	59.304	ug/l #	14
89) n-Butylbenzene	12.37	91	1048	3.093	ug/l	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

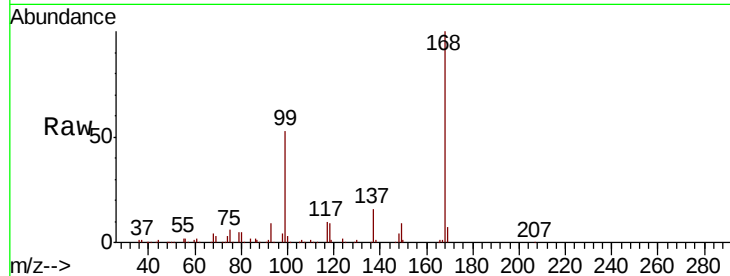
TR-05-061720

Tot Ion:168 Resp: 249847

Ion Ratio Lower Upper

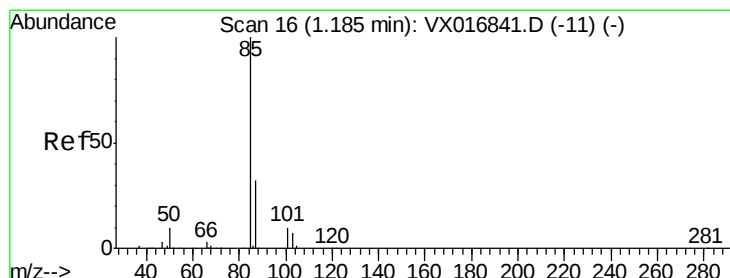
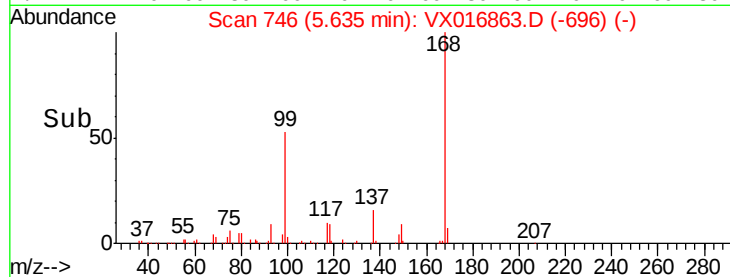
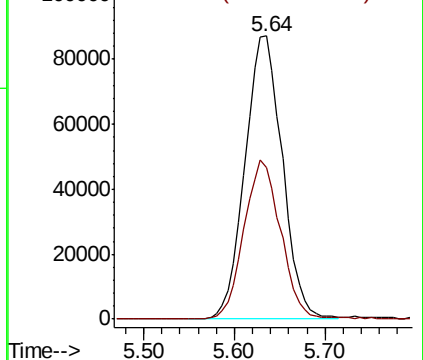
168 100

99 53.3 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX016863.D

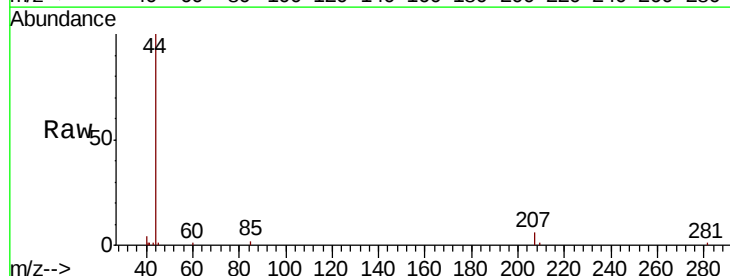
Acq: 19 Jun 2020 01:25

Tgt Ion: 85 Resp: 55

Ion Ratio Lower Upper

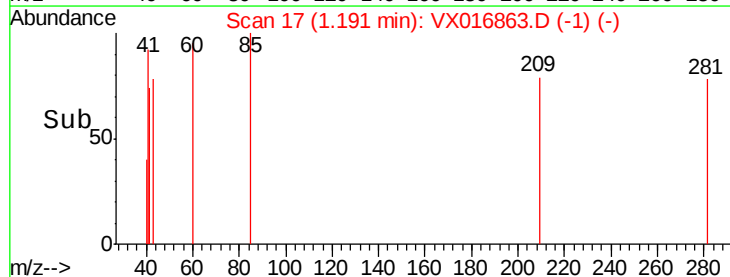
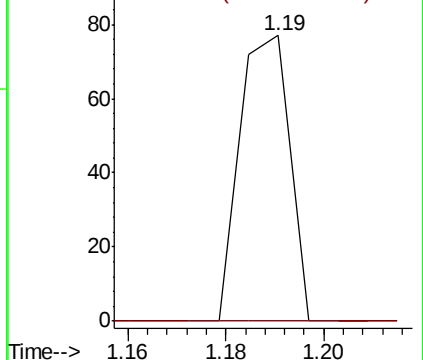
85 100

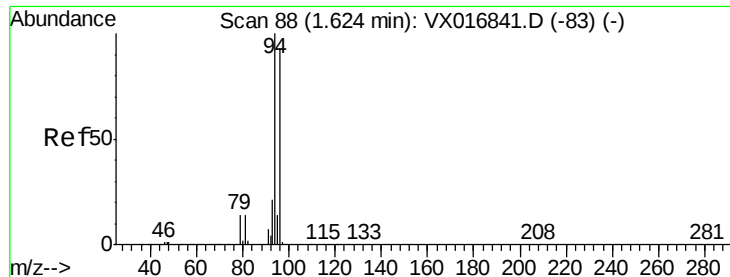
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampled :

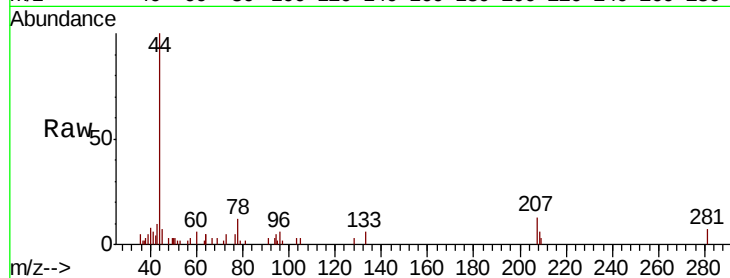
TR-05-061720

Tot Ion: 94 Resp: 385

Ion Ratio Lower Upper

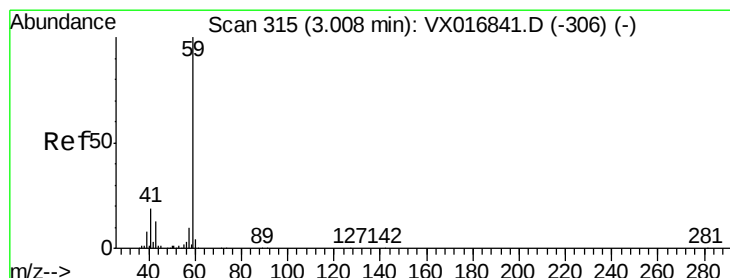
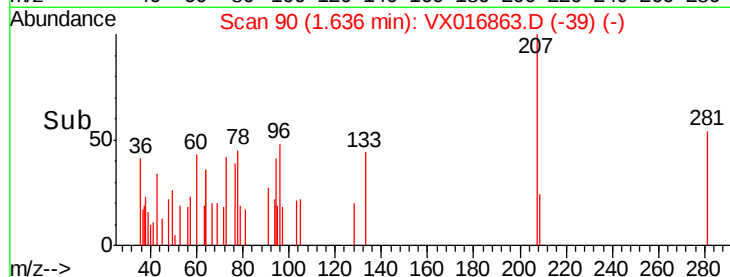
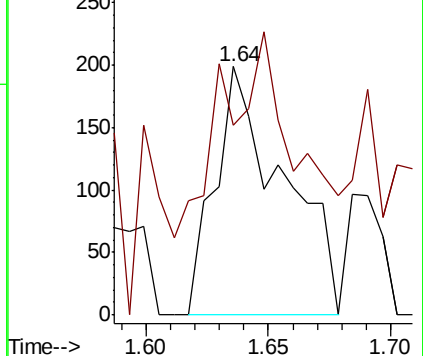
94 100

96 30.2 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 3.177 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX016863.D

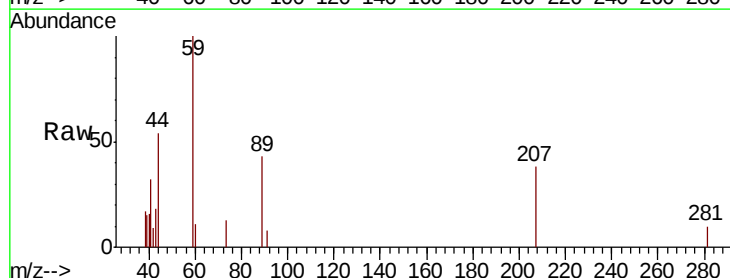
Acq: 19 Jun 2020 01:25

Tgt Ion: 59 Resp: 1614

Ion Ratio Lower Upper

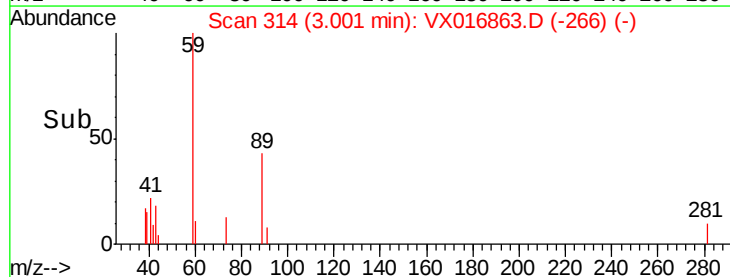
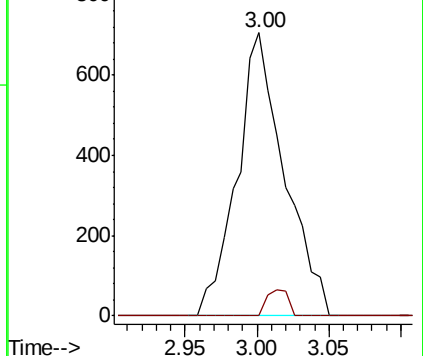
59 100

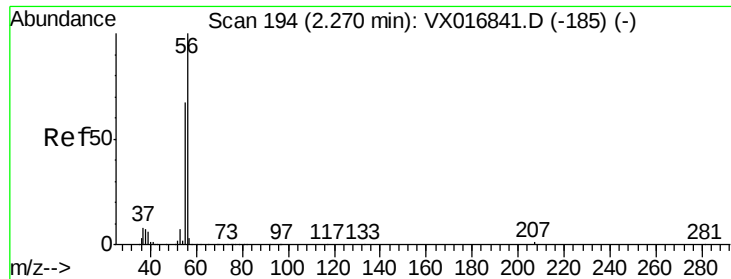
57 4.1 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

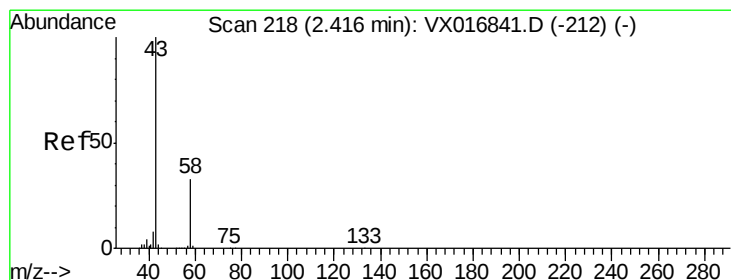
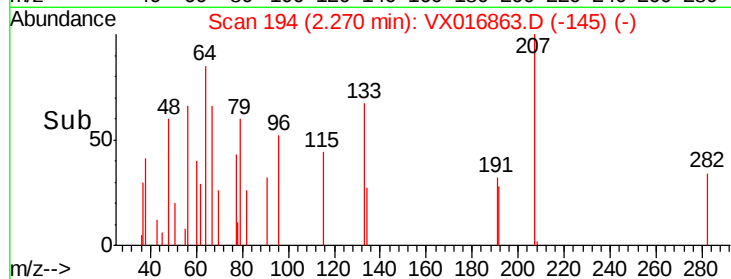
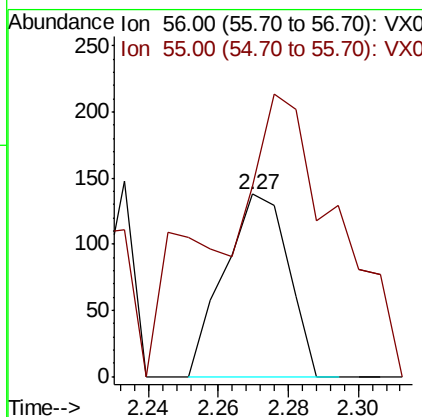
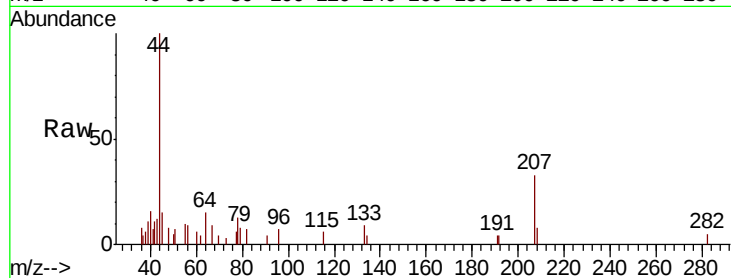




#13
Acrolein
Concen: 0.568 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

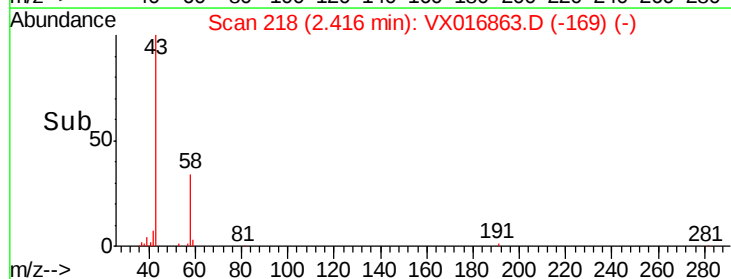
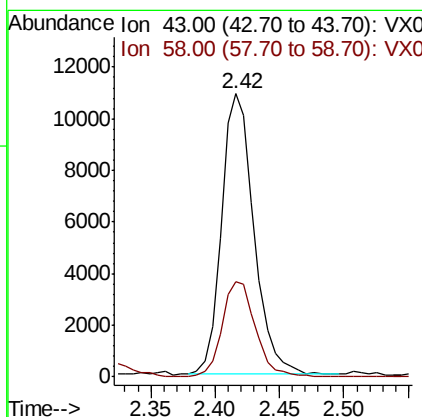
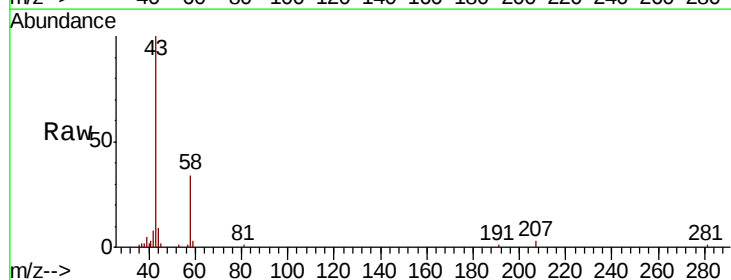
Instrument :
MSVOA_X
ClientSampled :
TR-05-061720

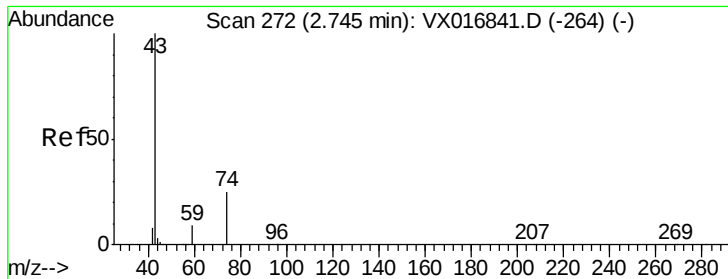
Tot Ion: 56 Resp: 175
Ion Ratio Lower Upper
56 100
55 201.7 55.7 83.5#



#16
Acetone
Concen: 5.962 ug/l
RT: 2.42 min Scan# 218
Delta R.T. 0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 43 Resp: 19012
Ion Ratio Lower Upper
43 100
58 34.0 26.6 39.8

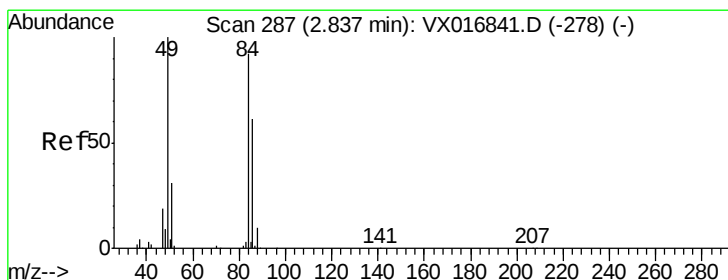
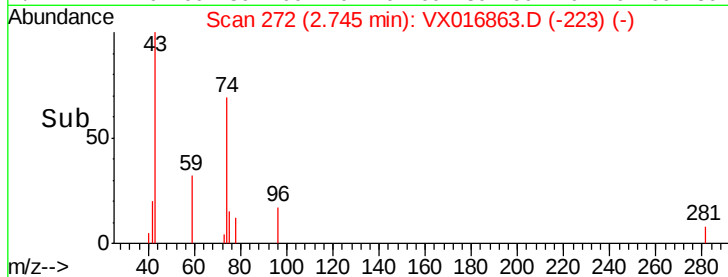
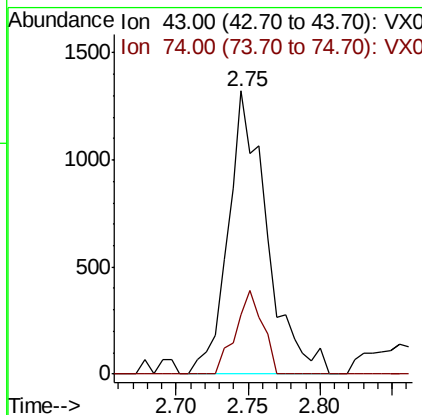
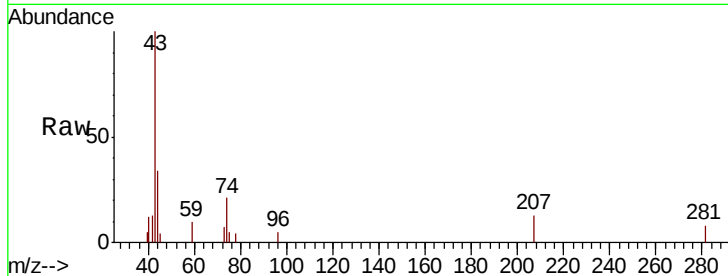




#18
Methyl Acetate
Concen: 0.897 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

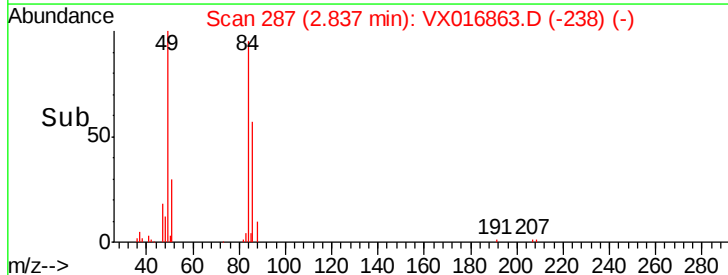
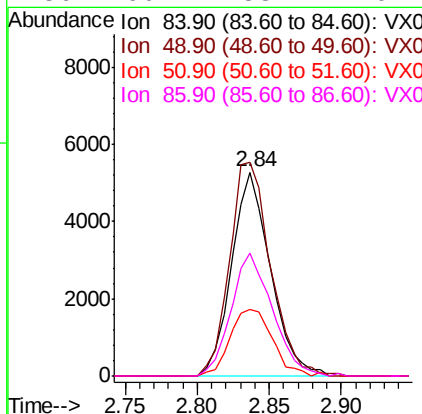
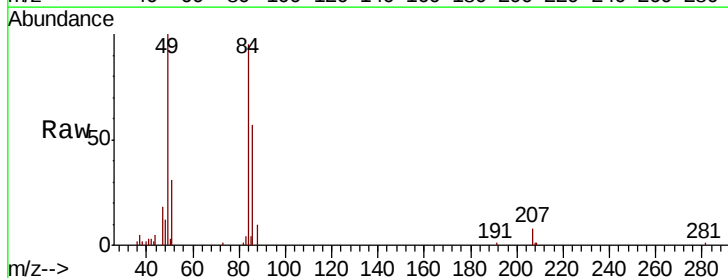
Instrument :
MSVOA_X
ClientSampled :
TR-05-061720

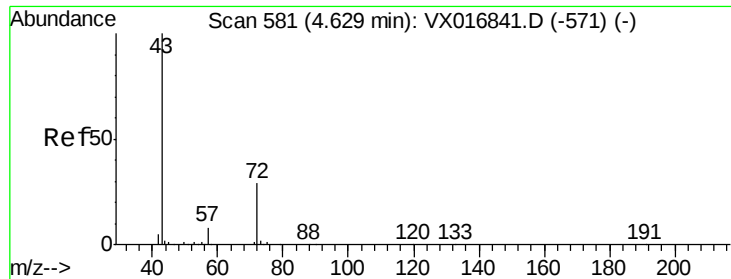
Tot Ion: 43 Resp: 2487
Ion Ratio Lower Upper
43 100
74 20.4 21.8 32.8#



#20
Methylene Chloride
Concen: 3.794 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 84 Resp: 9924
Ion Ratio Lower Upper
84 100
49 104.9 86.6 129.8
51 33.0 27.1 40.7
86 60.1 53.1 79.7

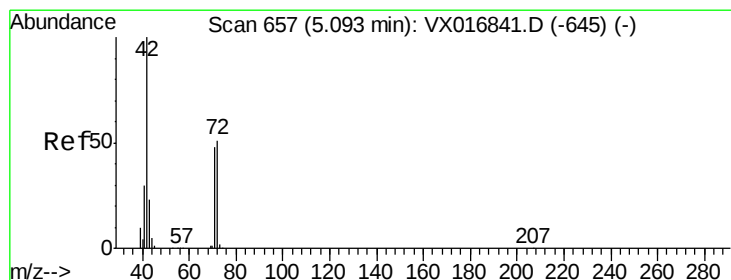
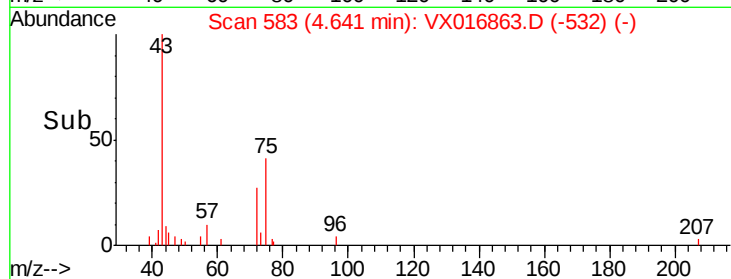
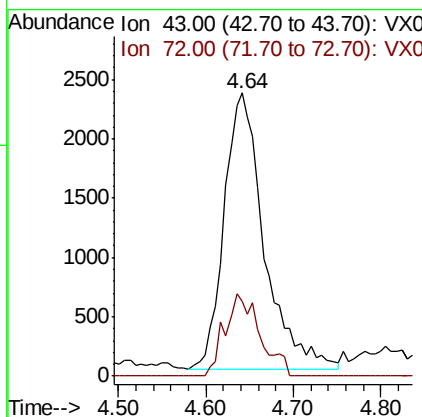
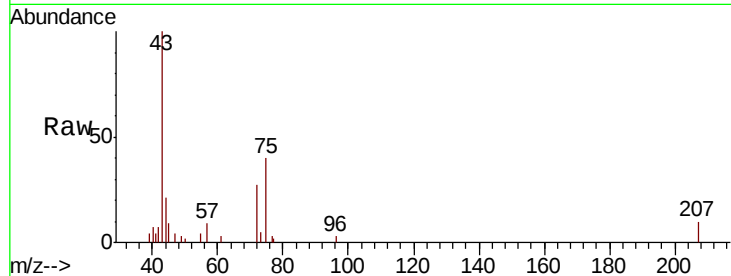




#25
 2-Butanone
 Concen: 4.948 ug/l
 RT: 4.64 min Scan# 583
 Delta R.T. 0.01 min
 Lab File: VX016863.D
 Acq: 19 Jun 2020 01:25

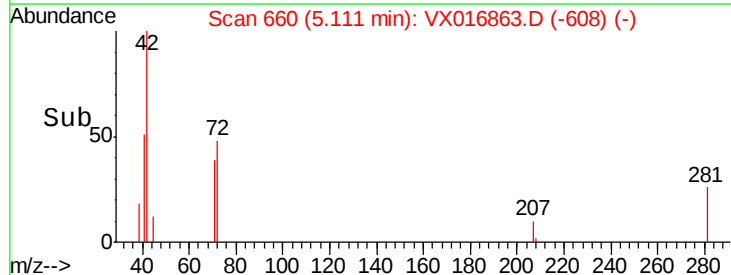
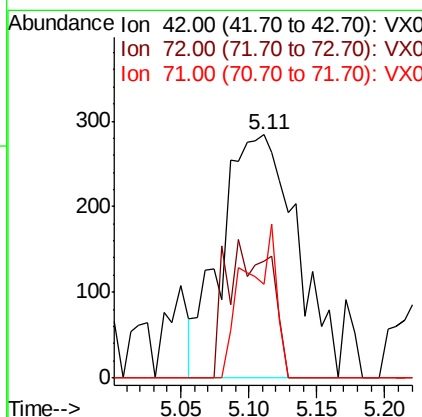
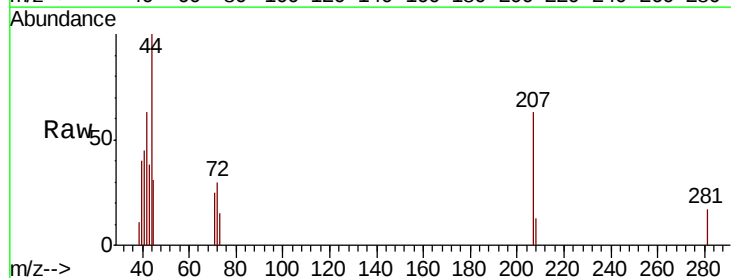
Instrument :
 MSVOA_X
 ClientSampled :
 TR-05-061720

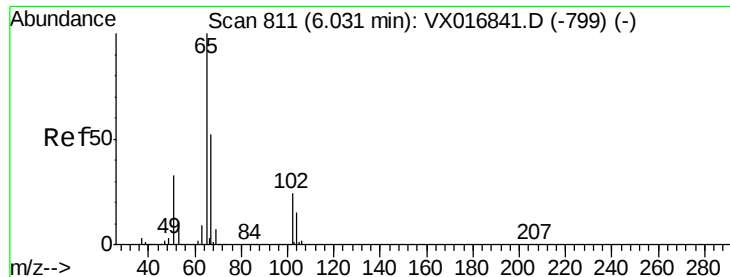
Tot Ion: 43 Resp: 7428
 Ion Ratio Lower Upper
 43 100
 72 27.3 23.5 35.3



#29
 Tetrahydrofuran
 Concen: 1.155 ug/l
 RT: 5.11 min Scan# 660
 Delta R.T. 0.02 min
 Lab File: VX016863.D
 Acq: 19 Jun 2020 01:25

Tgt Ion: 42 Resp: 1092
 Ion Ratio Lower Upper
 42 100
 72 0.0 41.1 61.7#
 71 26.2 38.4 57.6#





#33

1,2-Dichloroethane-d4

Concen: 48.929 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

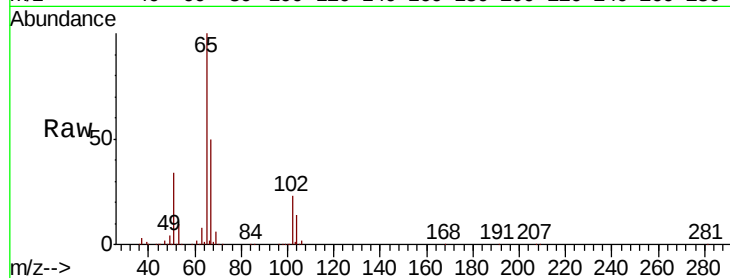
TR-05-061720

Tot Ion: 65 Resp: 147025

Ion Ratio Lower Upper

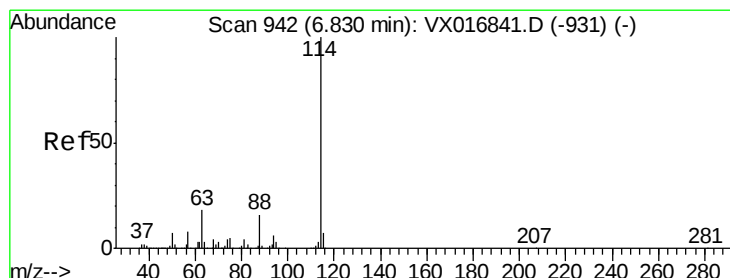
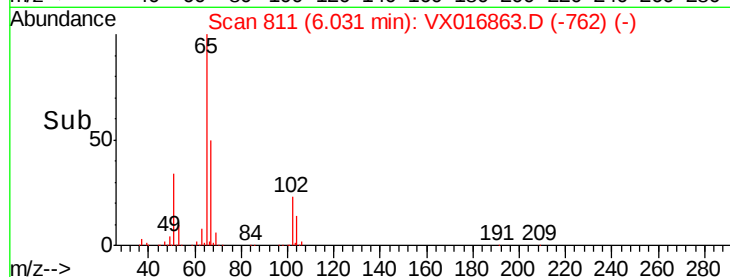
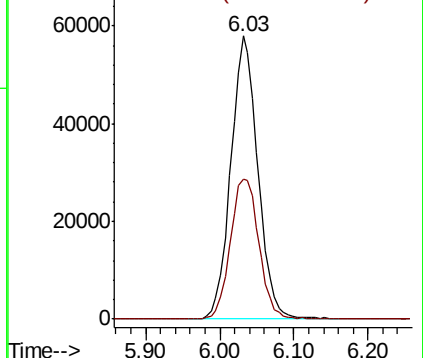
65 100

67 52.5 0.0 102.6



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

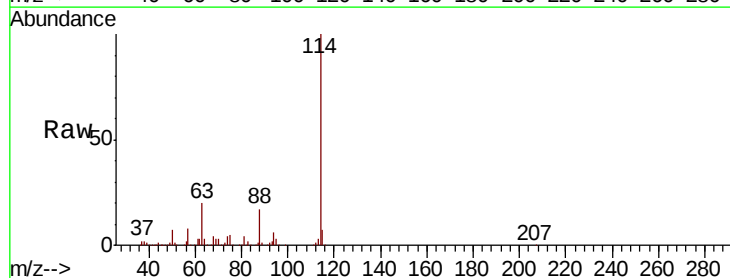
Tgt Ion: 114 Resp: 414290

Ion Ratio Lower Upper

114 100

63 19.8 0.0 37.0

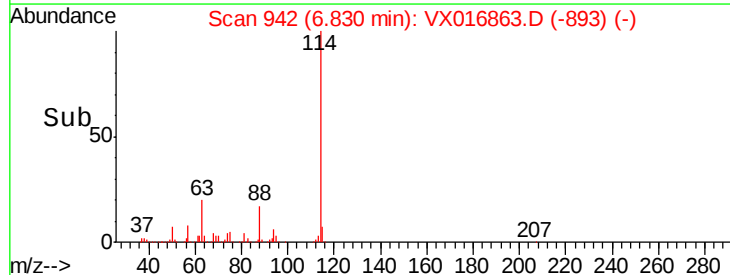
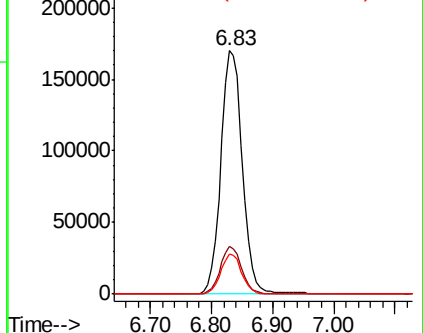
88 16.6 0.0 32.0

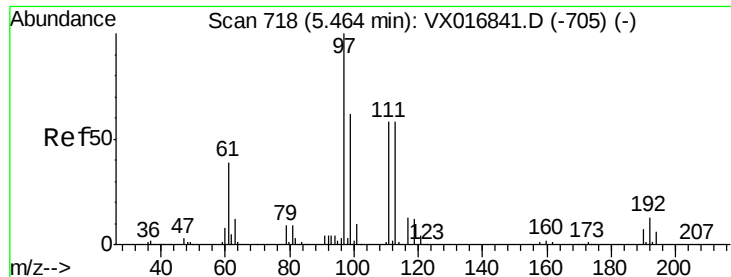


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

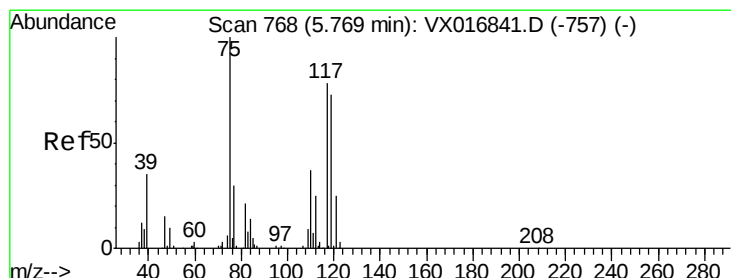
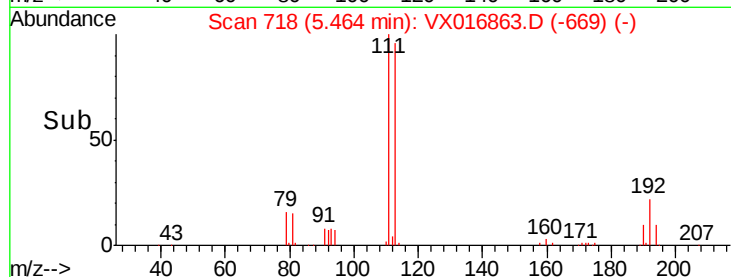
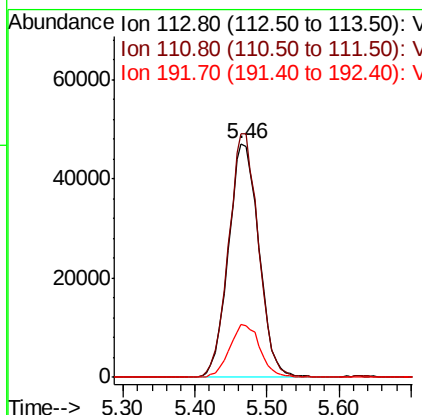
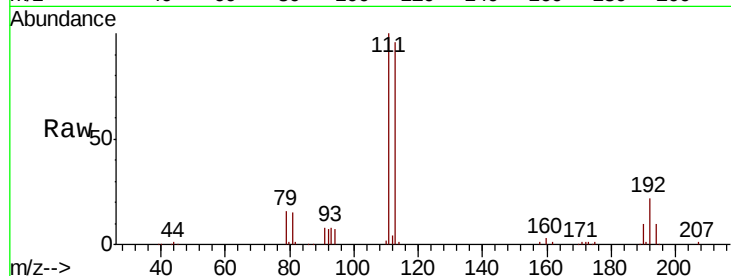




#35
 Dibromofluoromethane
 Concen: 52.363 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.00 min
 Lab File: VX016863.D
 Acq: 19 Jun 2020 01:25

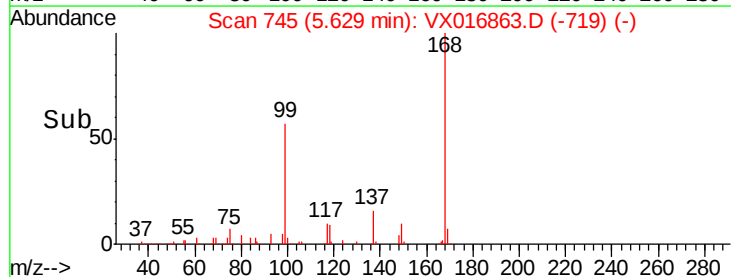
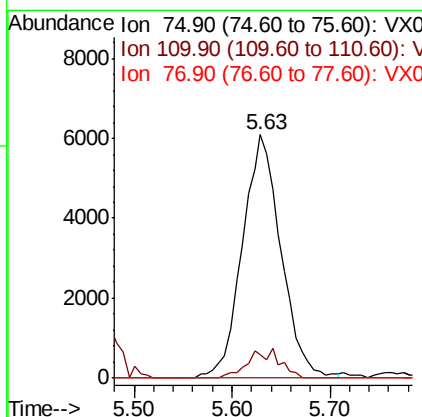
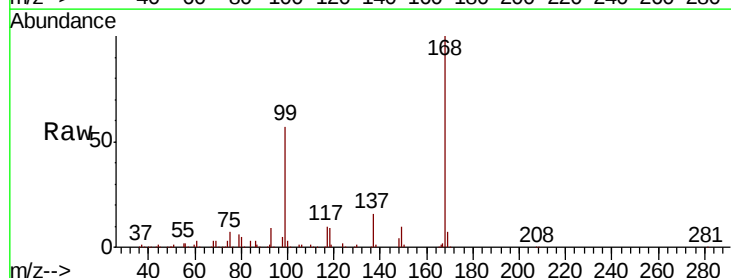
Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-061720

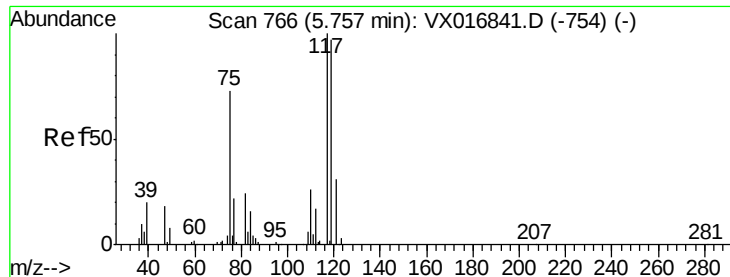
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.0	121.4
192	22.4	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.367 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016863.D
 Acq: 19 Jun 2020 01:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.8	18.9	56.9#
77	0.0	25.6	38.4#

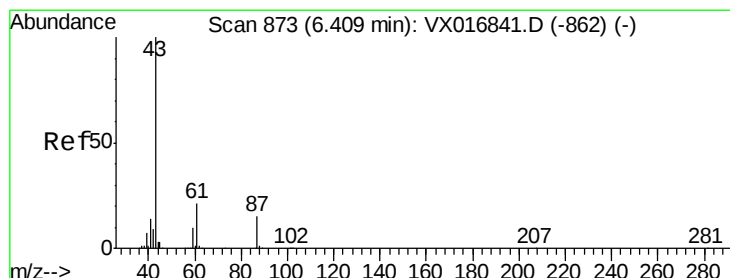
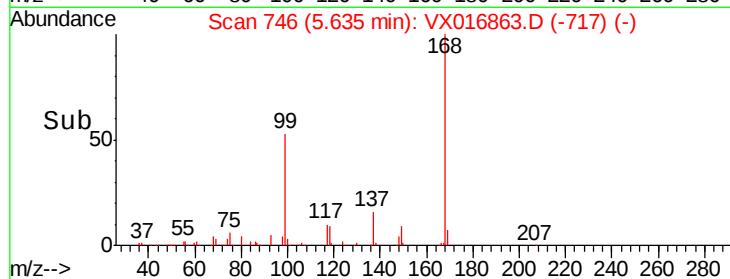
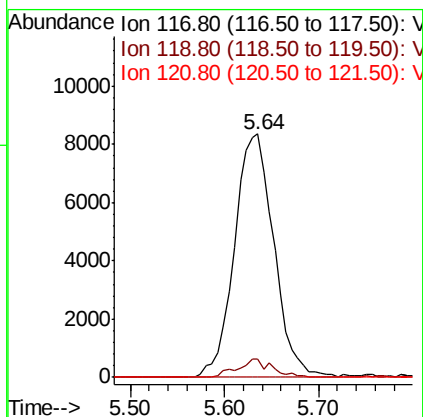
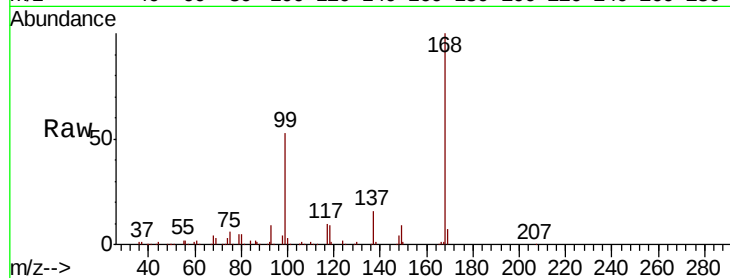




#38
Carbon Tetrachloride
Concen: 5.649 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.12 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

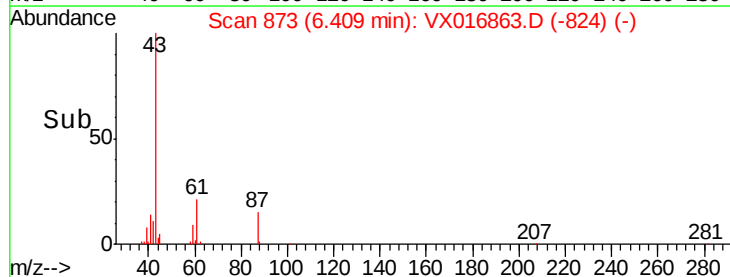
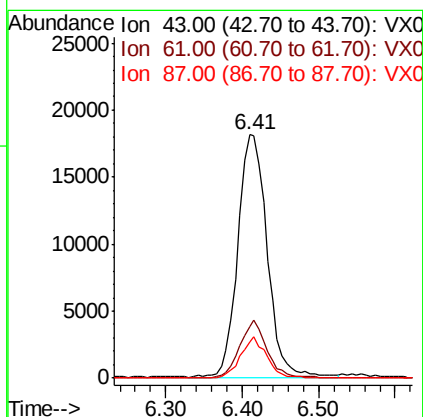
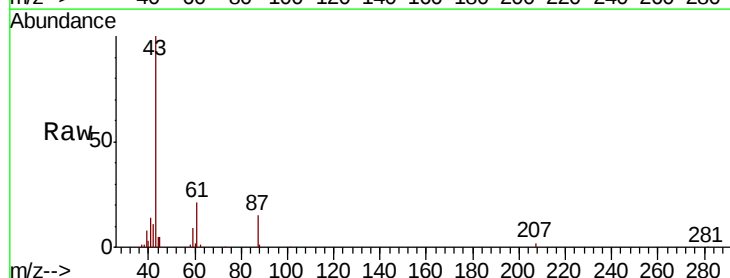
Instrument :
MSVOA_X
ClientSampled :
TR-05-061720

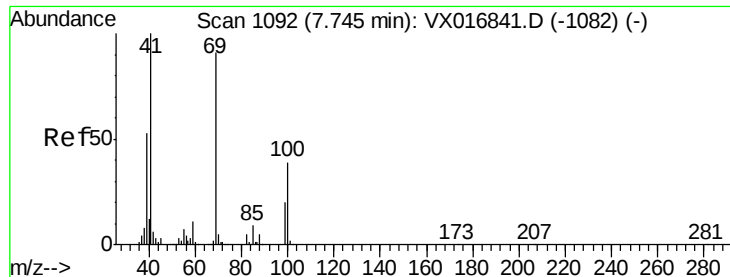
Tot Ion:117 Resp: 24246
Ion Ratio Lower Upper
117 100
119 7.3 77.4 116.2#
121 0.0 24.7 37.1#



#43
Isopropyl Acetate
Concen: 8.282 ug/l
RT: 6.41 min Scan# 873
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 43 Resp: 48880
Ion Ratio Lower Upper
43 100
61 21.5 17.9 26.9
87 14.8 12.4 18.6

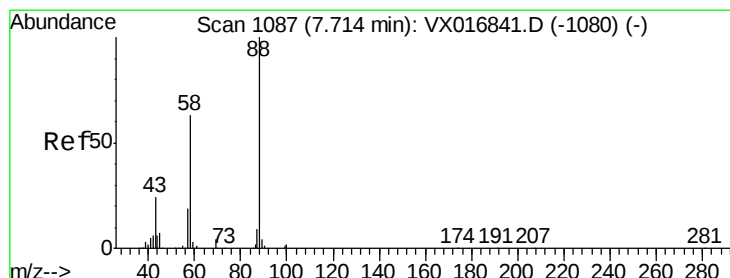
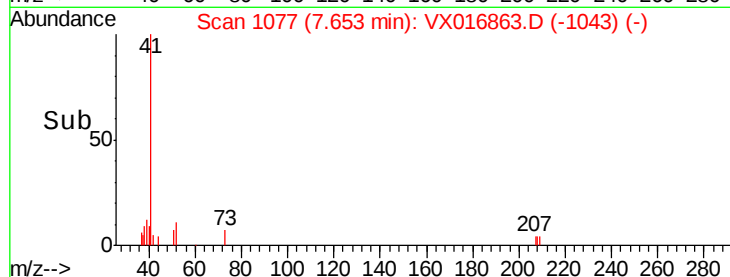
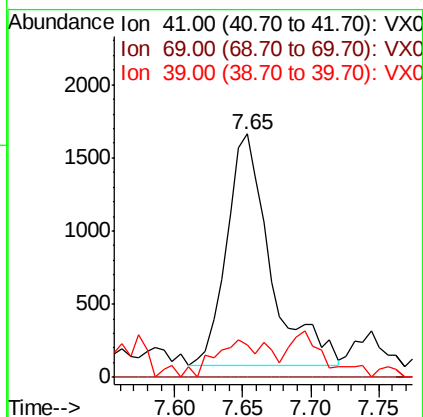
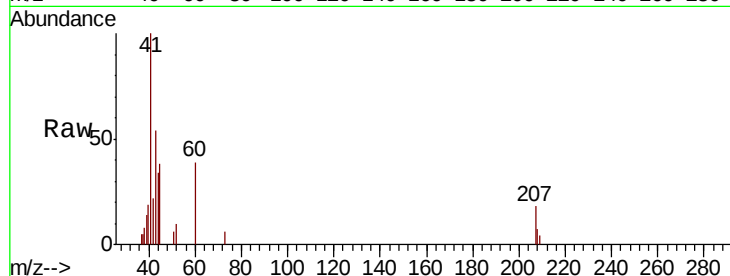




#48
Methvl methacrylate
Concen: 1.288 ug/l
RT: 7.65 min Scan# 1077
Delta R.T. -0.09 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

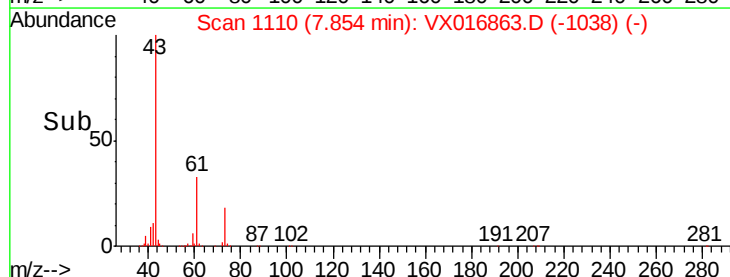
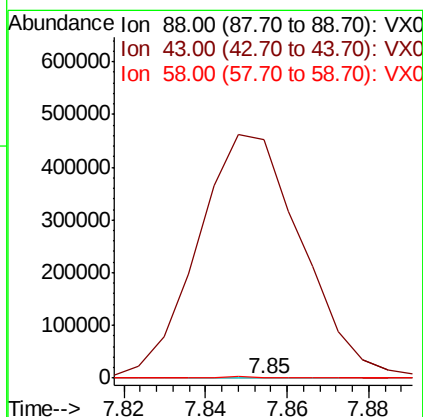
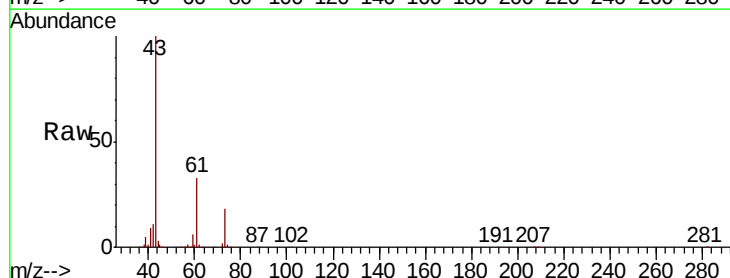
Instrument :
MSVOA_X
ClientSampleId :
TR-05-061720

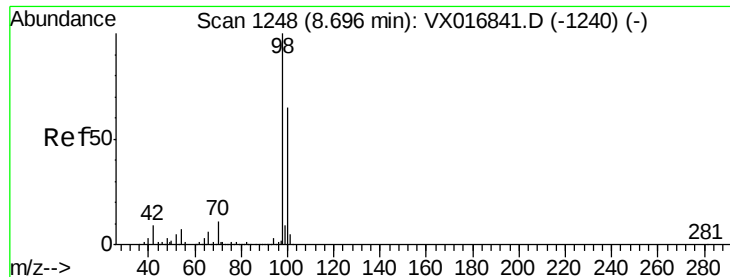
Tot Ion: 41 Resp: 3580
Ion Ratio Lower Upper
41 100
69 0.0 73.3 109.9#
39 0.0 42.4 63.6#



#49
1,4-Dioxane
Concen: 1.398 ug/l
RT: 7.85 min Scan# 1110
Delta R.T. 0.14 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 88 Resp: 87
Ion Ratio Lower Upper
88 100
43 956939.1 22.7 34.1#
58 4505.7 53.1 79.7#





#50

Toluene-d8

Concen: 53.737 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

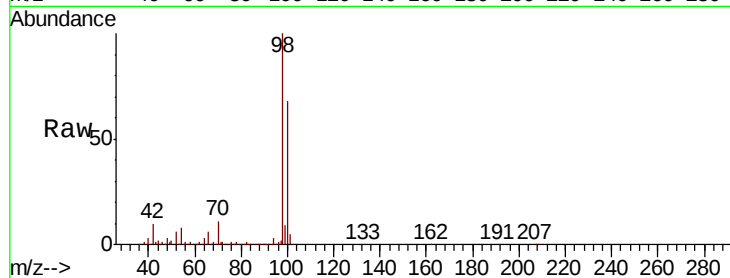
TR-05-061720

Tot Ion: 98 Resp: 569777

Ion Ratio Lower Upper

98 100

100 67.7 54.0 81.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

400000

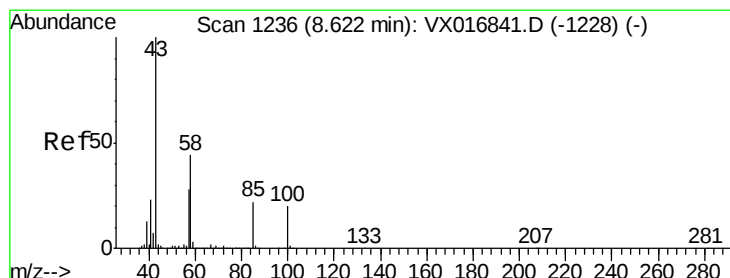
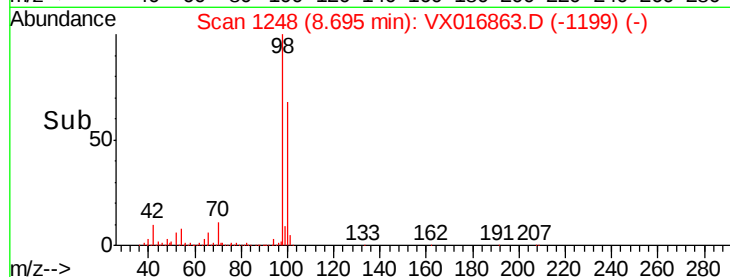
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 13.356 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX016863.D

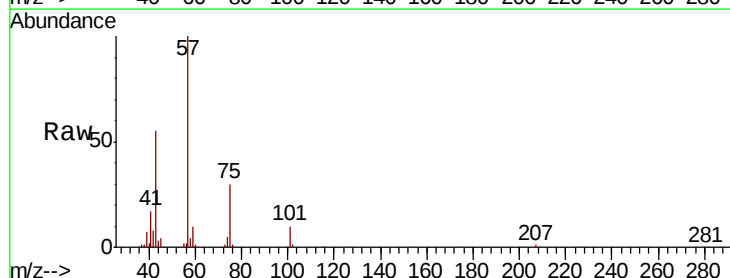
Acq: 19 Jun 2020 01:25

Tgt Ion: 43 Resp: 47413

Ion Ratio Lower Upper

43 100

58 7.4 34.3 51.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

30000

25000

20000

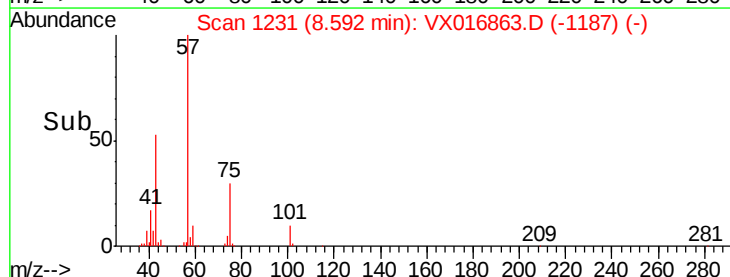
15000

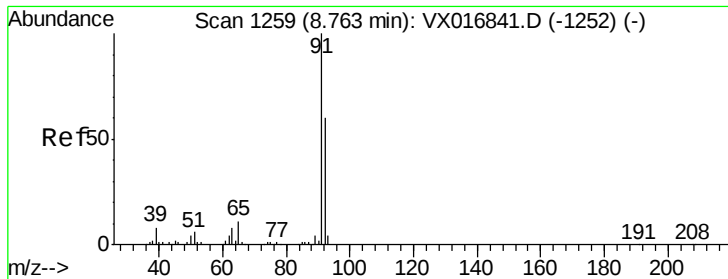
10000

5000

0

Time-->





#52

Toluene

Concen: 0.275 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

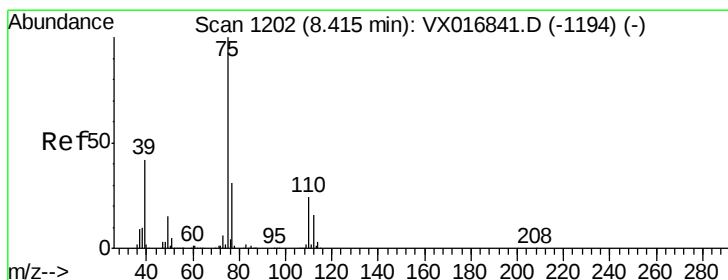
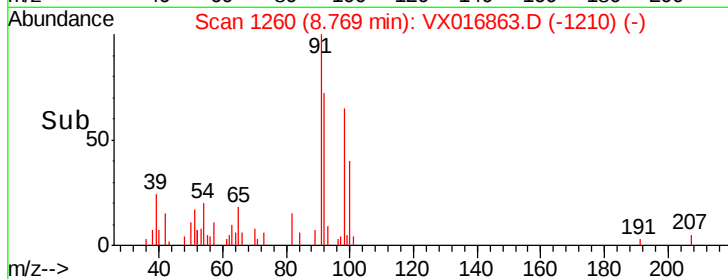
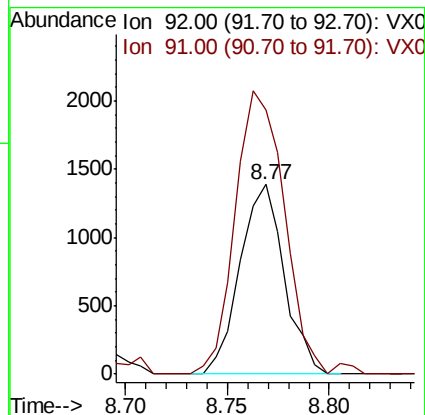
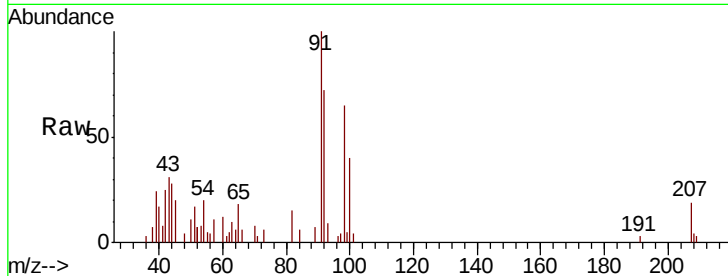
TR-05-061720

Tot Ion: 92 Resp: 2095

Ion Ratio Lower Upper

92 100

91 167.1 134.2 201.2



#54

cis-1,3-Dichloropropene

Concen: 4.734 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

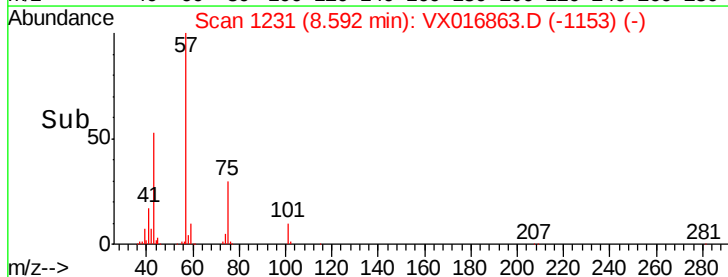
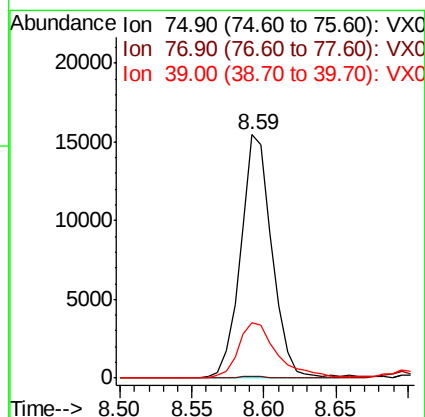
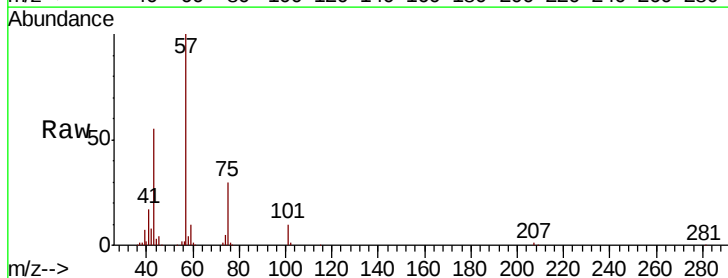
Tgt Ion: 75 Resp: 23169

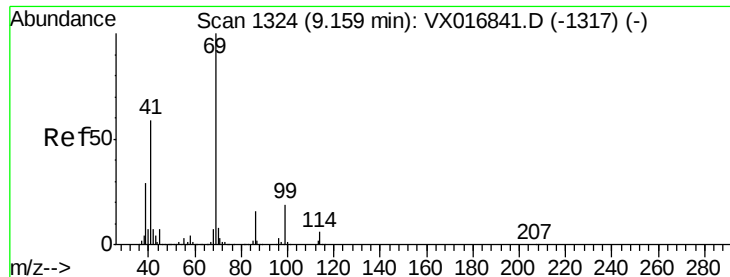
Ion Ratio Lower Upper

75 100

77 0.8 24.9 37.3#

39 22.9 33.4 50.0#





#56

Ethyl methacrylate

Concen: 0.203 ug/l

RT: 9.29 min Scan# 1345

Delta R.T. 0.13 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

TR-05-061720

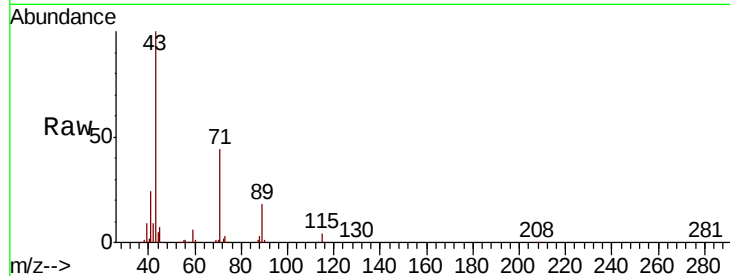
Tot Ion: 69 Resp: 844

Ion Ratio Lower Upper

69 100

41 3669.0 47.9 71.9#

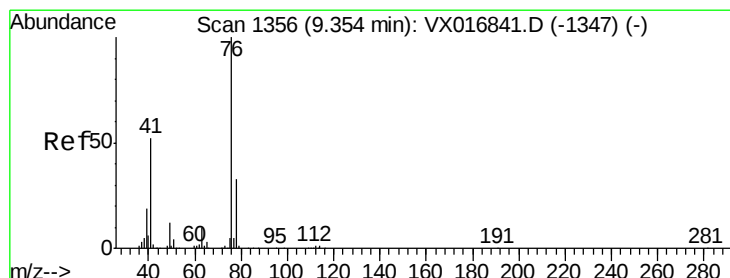
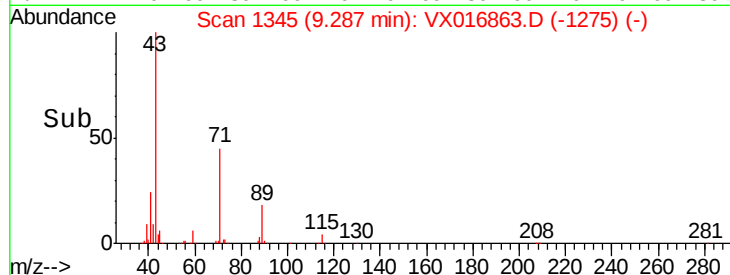
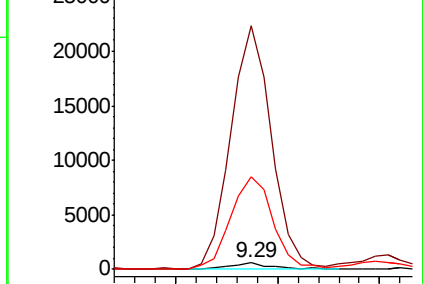
39 1446.9 24.2 36.4#



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: 0.729 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX016863.D

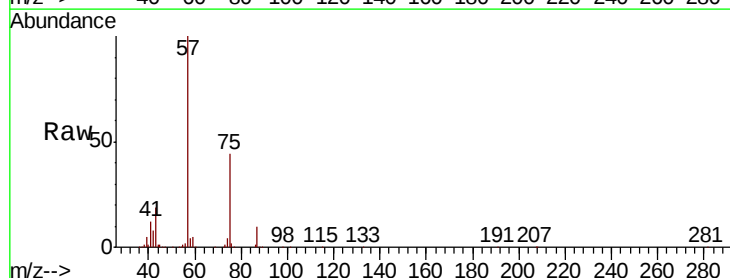
Acq: 19 Jun 2020 01:25

Tgt Ion: 76 Resp: 3555

Ion Ratio Lower Upper

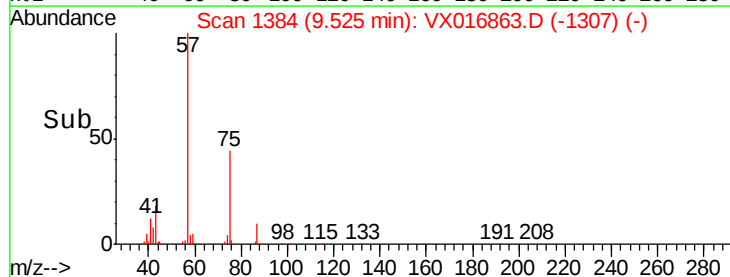
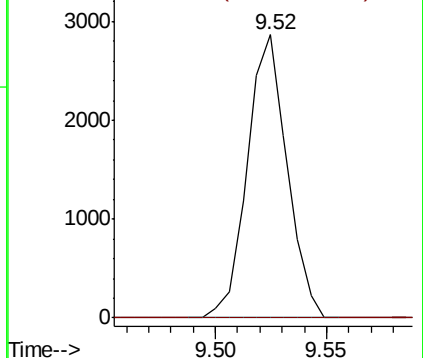
76 100

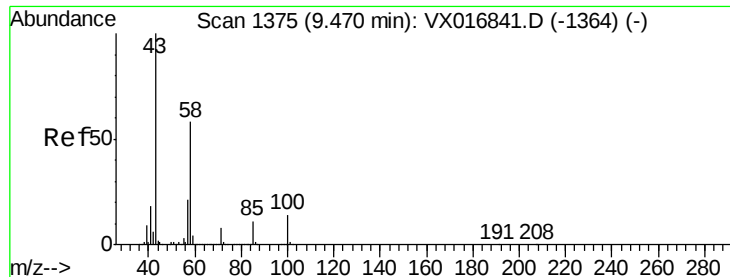
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

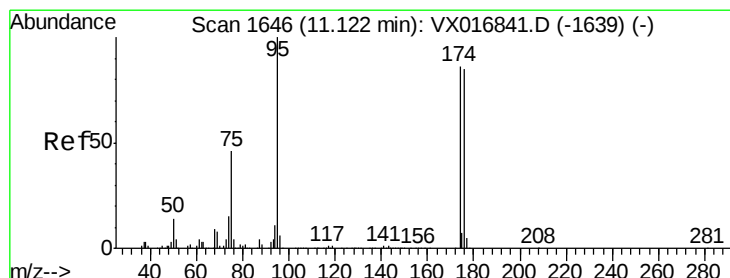
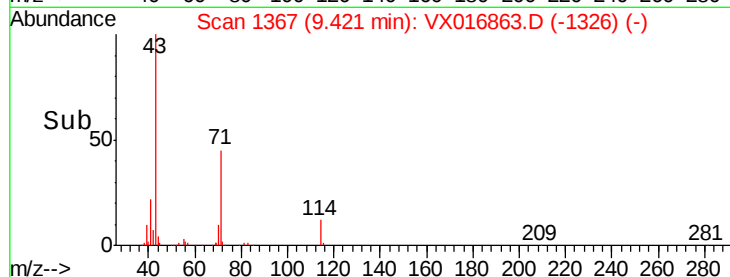
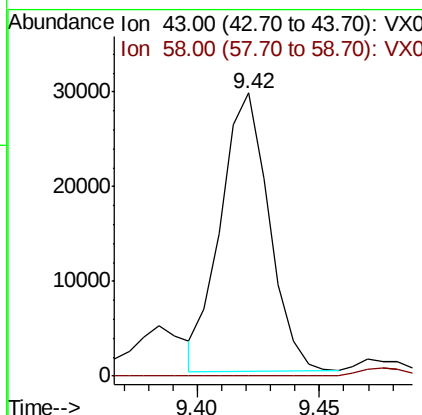
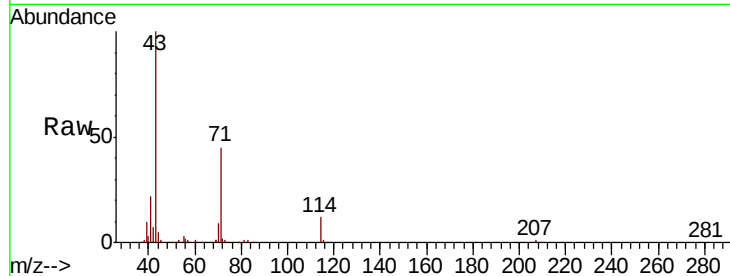




#59
2-Hexanone
Concen: 5.800 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.05 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

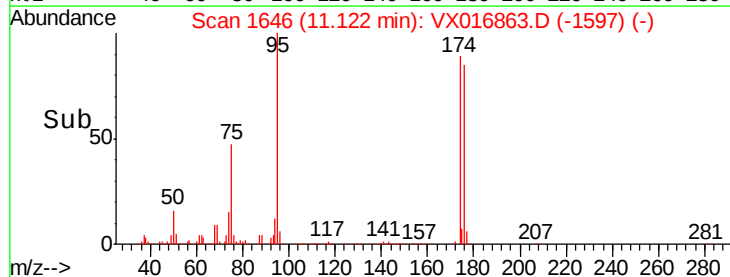
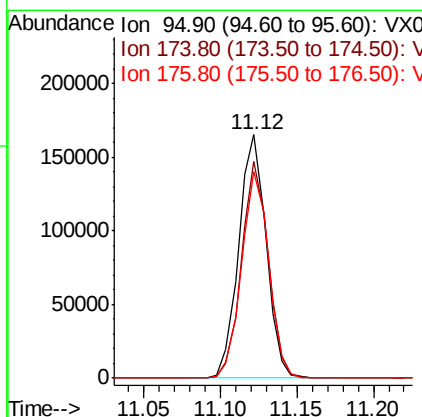
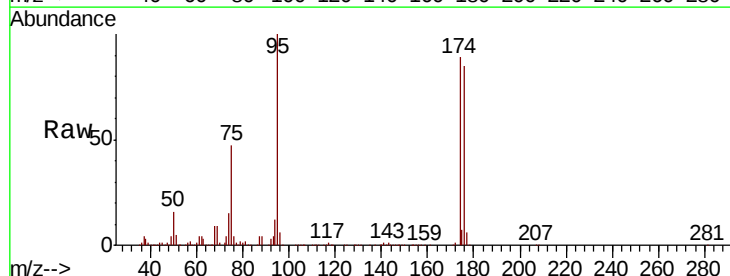
Instrument :
MSVOA_X
ClientSampleId :
TR-05-061720

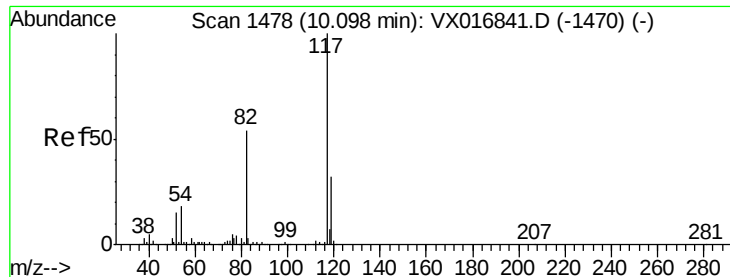
Tot Ion: 43 Resp: 40088
Ion Ratio Lower Upper
43 100
58 0.0 29.8 89.4#



#62
4-Bromofluorobenzene
Concen: 50.469 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 95 Resp: 205031
Ion Ratio Lower Upper
95 100
174 87.0 0.0 174.2
176 84.3 0.0 170.0

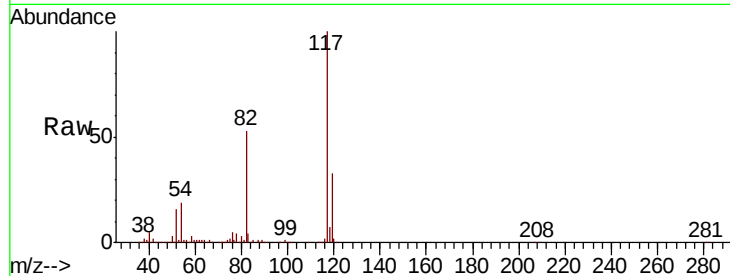




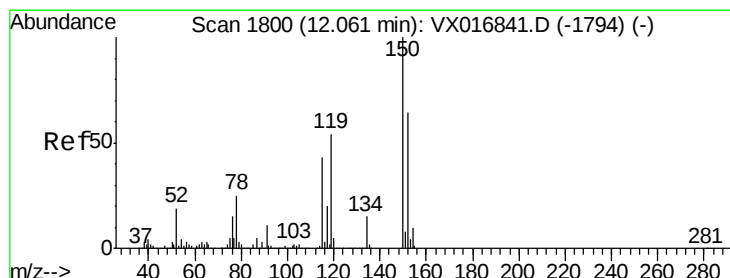
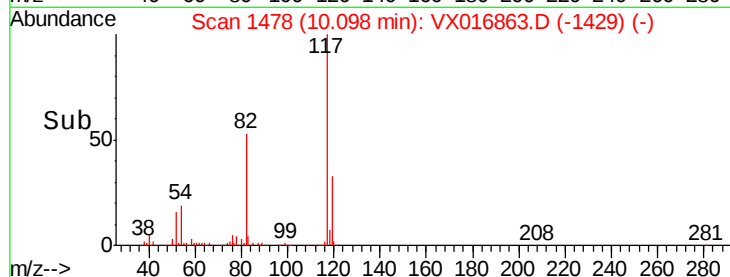
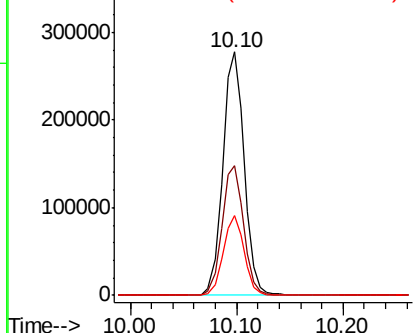
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Instrument :
MSVOA_X
ClientSampleId :
TR-05-061720

Tot Ion:117 Resp: 388144
Ion Ratio Lower Upper
117 100
82 53.4 43.4 65.0
119 32.8 25.7 38.5

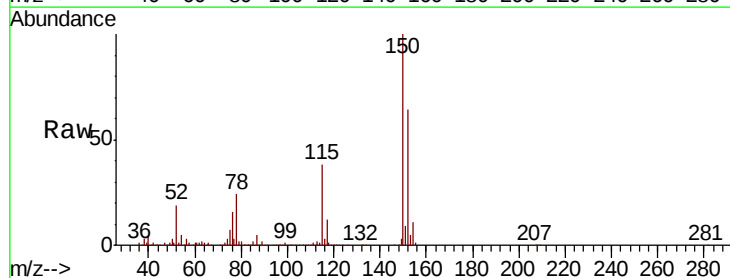


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

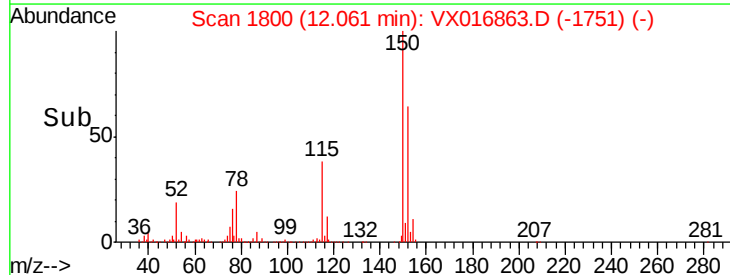
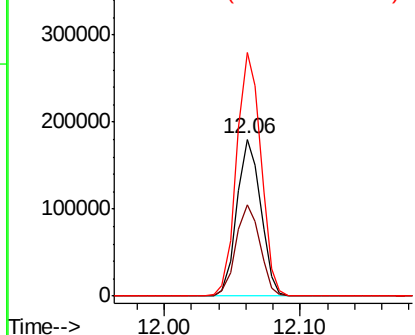


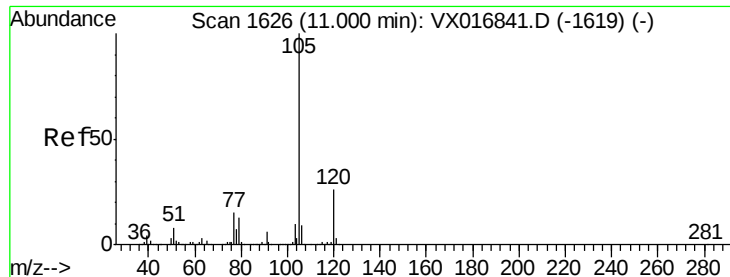
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion:152 Resp: 221947
Ion Ratio Lower Upper
152 100
115 58.2 40.9 122.8
150 156.7 0.0 344.2



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: Below Cal

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

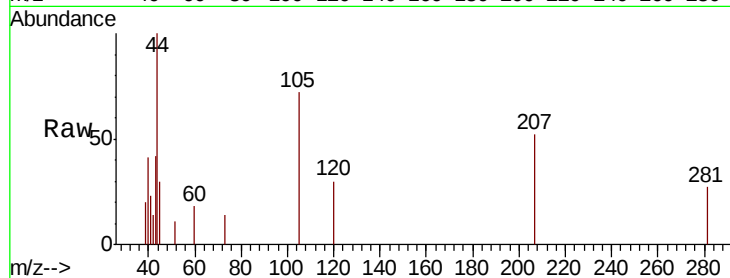
TR-05-061720

Tot Ion: 105 Resp: 486

Ion Ratio Lower Upper

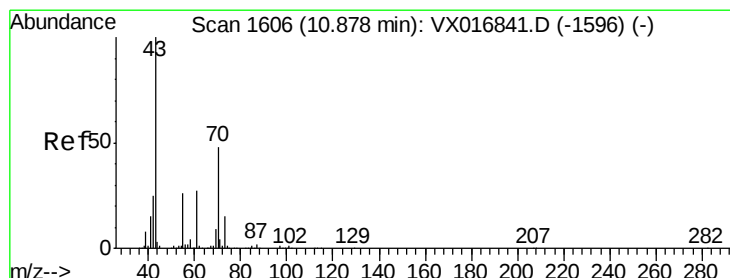
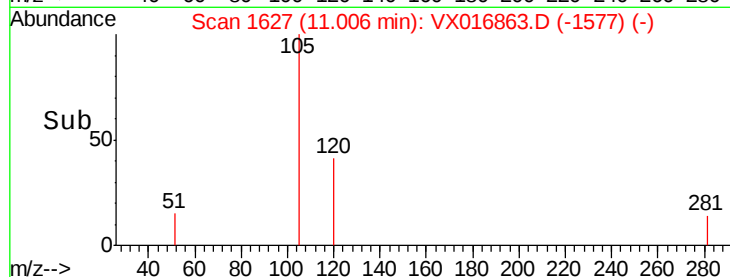
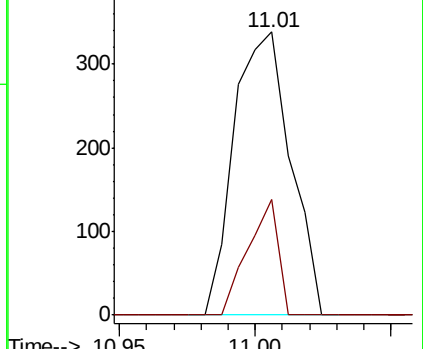
105 100

120 22.0 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 0.647 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Tgt Ion: 43 Resp: 3228

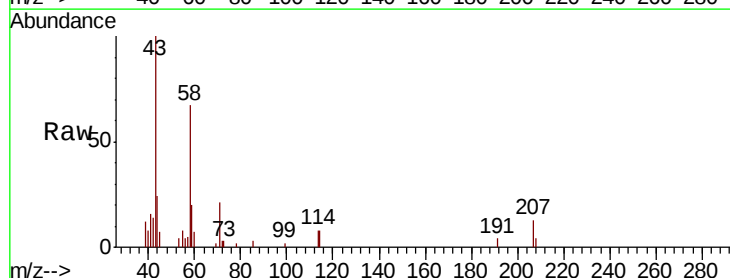
Ion Ratio Lower Upper

43 100

70 0.0 39.9 59.9#

55 10.8 21.8 32.6#

61 0.0 22.2 33.4#

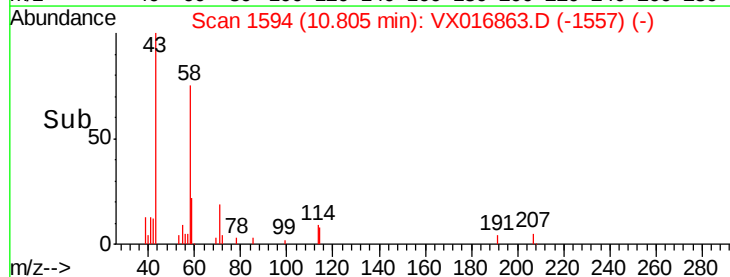
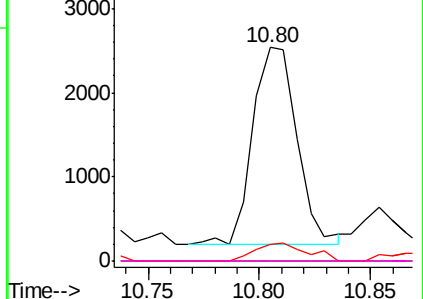


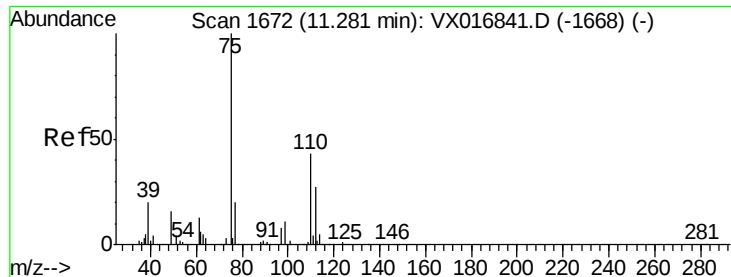
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.075 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016863.D

Acq: 19 Jun 2020 01:25

Instrument :

MSVOA_X

ClientSampleId :

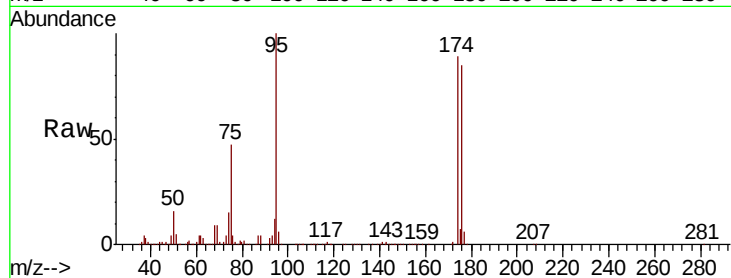
TR-05-061720

Tot Ion: 75 Resp: 98163

Ion Ratio Lower Upper

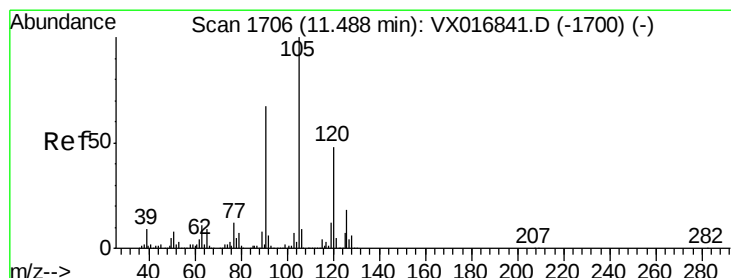
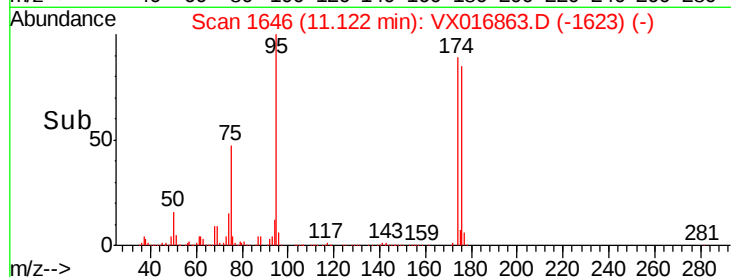
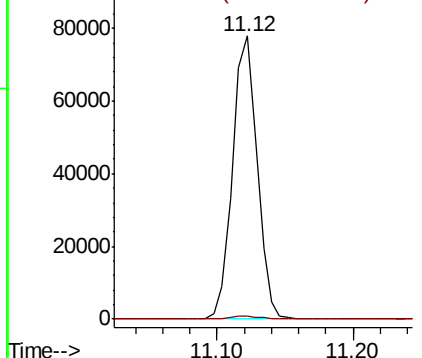
75 100

77 1.4 20.5 61.5#



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: 0.258 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX016863.D

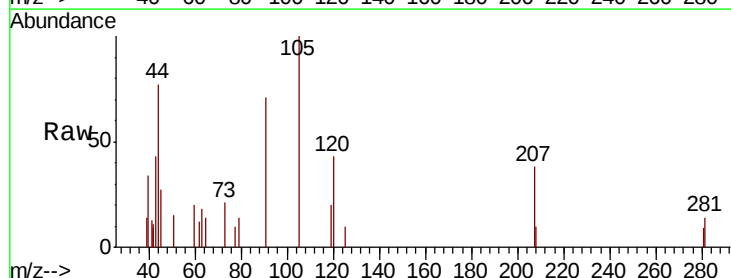
Acq: 19 Jun 2020 01:25

Tgt Ion: 105 Resp: 674

Ion Ratio Lower Upper

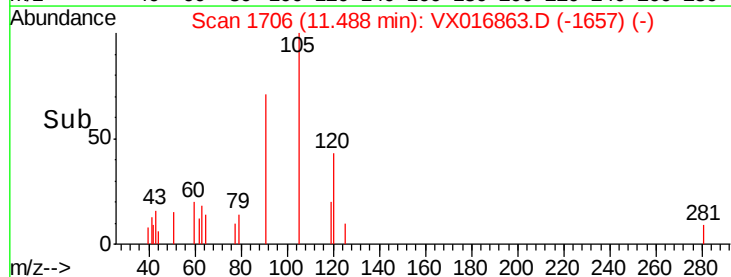
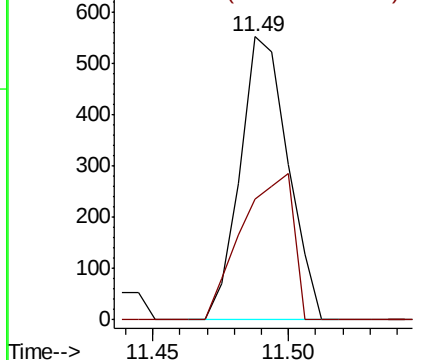
105 100

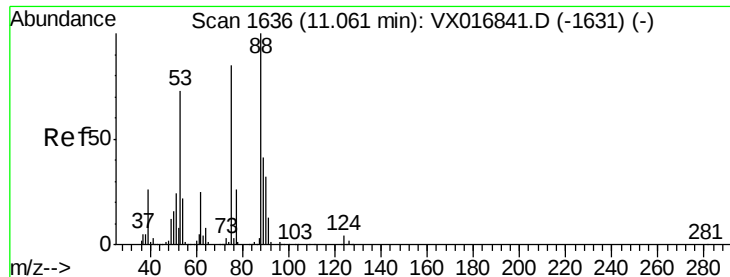
120 55.8 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

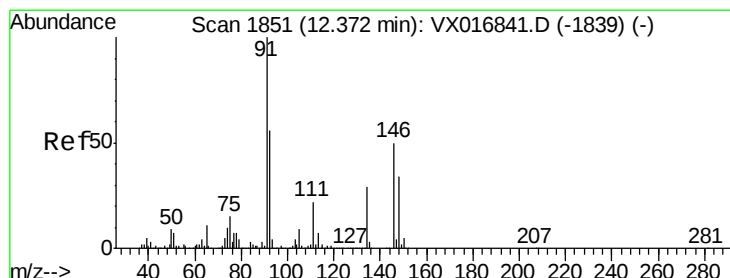
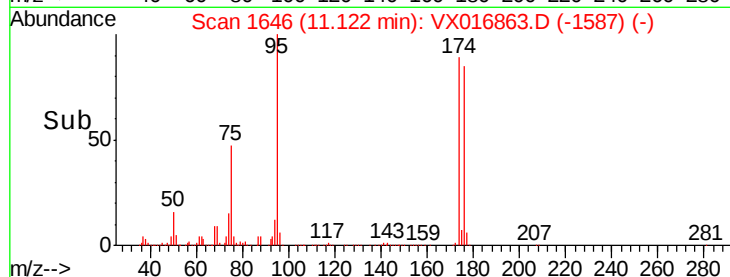
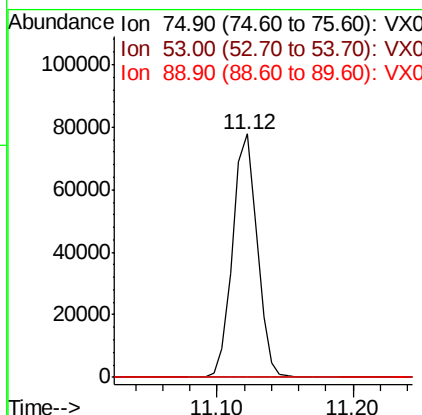
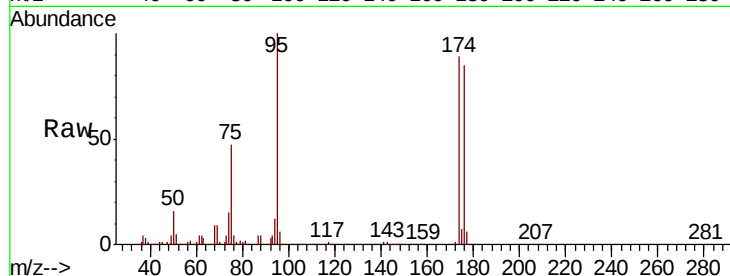




#81
trans-1,4-Dichloro-2-butene
Concen: 59.304 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Instrument :
MSVOA_X
ClientSampled :
TR-05-061720

Tot Ion: 75 Resp: 98163
Ion Ratio Lower Upper
75 100
53 0.2 69.8 104.8#
89 0.0 38.3 57.5#



#89
n-Butylbenzene
Concen: 3.093 ug/l
RT: 12.37 min Scan# 1851
Delta R.T. 0.00 min
Lab File: VX016863.D
Acq: 19 Jun 2020 01:25

Tgt Ion: 91 Resp: 1048
Ion Ratio Lower Upper
91 100
92 49.5 27.4 82.2
134 37.6 13.9 41.6

