

Data File : VW012970.D
Acq On : 13 Sep 2019 23:08
Operator : SY/VA
Sample : K4719-08
Misc : 2.42G/5ML/MSVOA_W/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-BRUCKNER

Quant Time: Sep 14 04:25:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	216352	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	327953	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	244318	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	93082	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	129990	65.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	130.10%	
35) Dibromofluoromethane	7.88	113	102837	57.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.58%	
50) Toluene-d8	10.32	98	356882	51.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.50%	
62) 4-Bromofluorobenzene	12.62	95	102725	41.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.06%	

Target Compounds

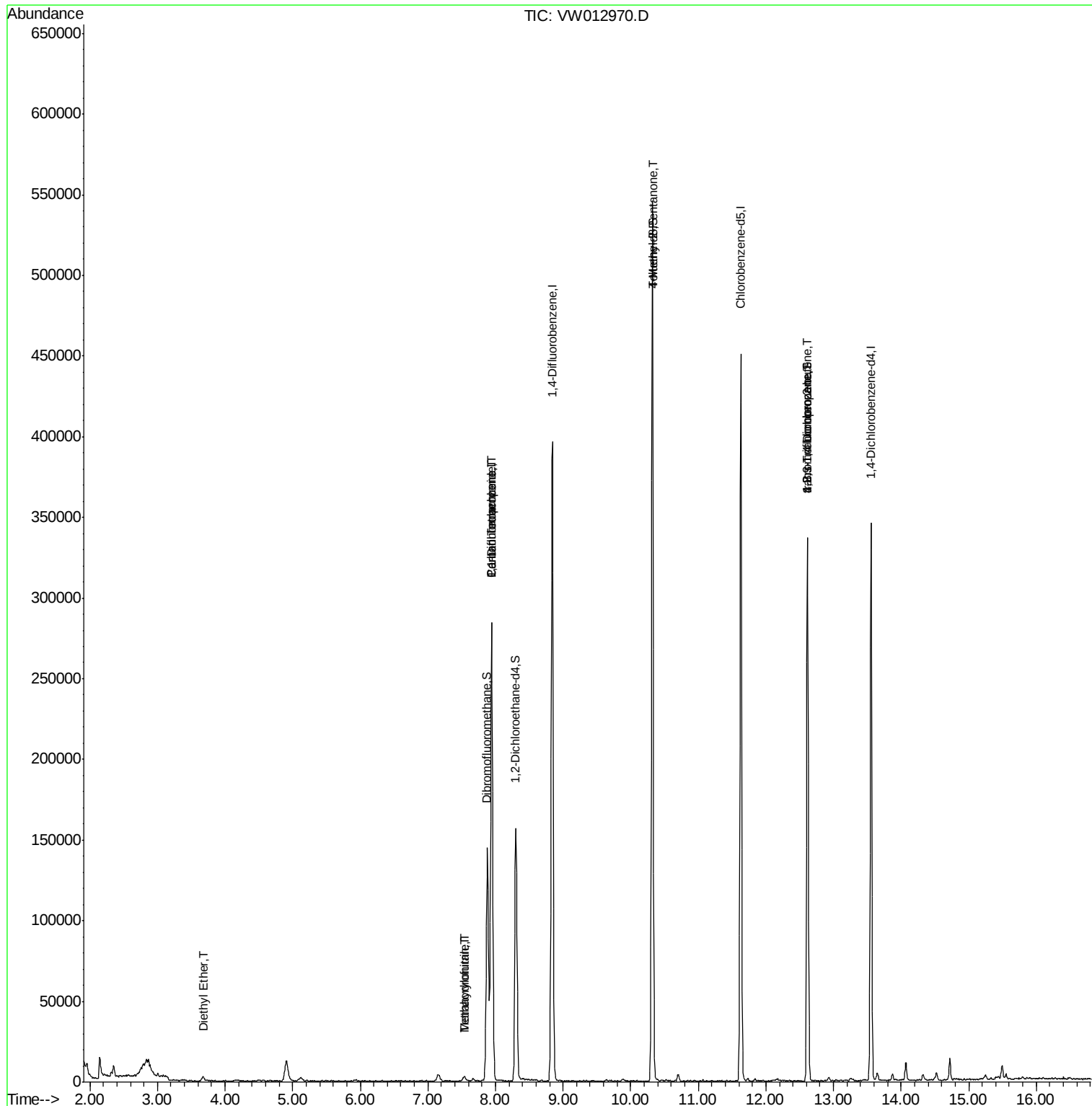
						Qvalue
2) Dichlorodifluoromethane	2.00	85	22	Below Cal	#	44
3) Chloromethane	2.20	50	242	Below Cal	#	41
8) Diethyl Ether	3.68	74	1362	1.611	ug/l	55
11) Tert butyl alcohol	5.21	59	179	Below Cal	#	72
13) Acrolein	3.88	56	22	Below Cal	#	1
16) Acetone	4.15	43	747	Below Cal	#	85
26) 2,2-Dichloropropane	7.15	77	332	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	2689	7.428	ug/l #	90
31) Cyclohexane	7.93	56	4876	Below Cal	#	49
36) 1,1-Dichloropropene	7.94	75	15906	6.070	ug/l #	53
38) Carbon Tetrachloride	7.95	117	21349	7.950	ug/l #	15
41) Methacrylonitrile	7.54	41	1620	1.769	ug/l #	51
51) 4-Methyl-2-Pentanone	10.32	43	2093	1.518	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	53612	65.755	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	53612	149.165	ug/l #	7

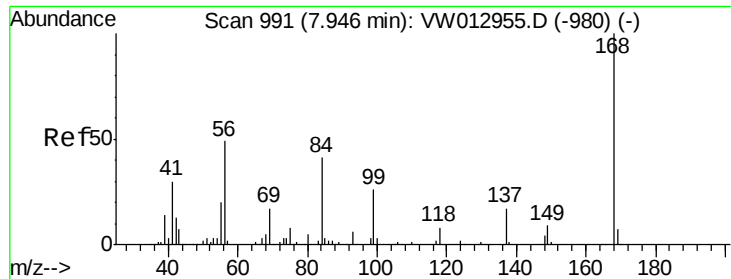
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

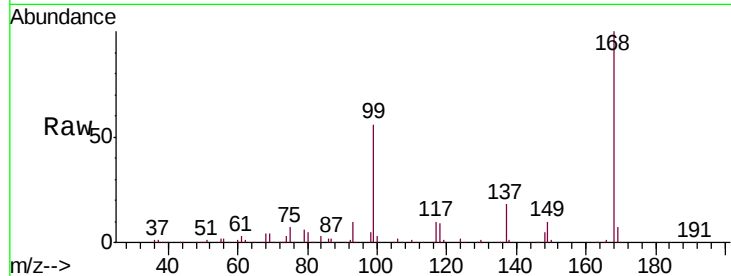
T4-4(0)-BRUCKNER

Tgt Ion:168 Resp: 216352

Ion Ratio Lower Upper

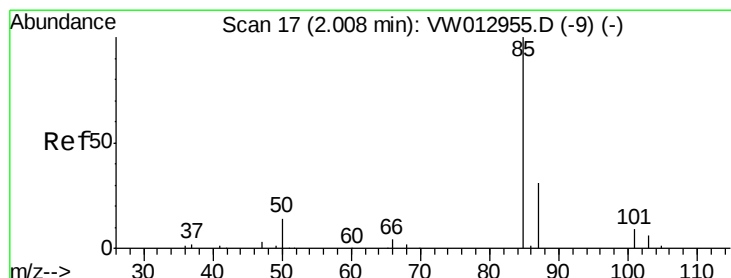
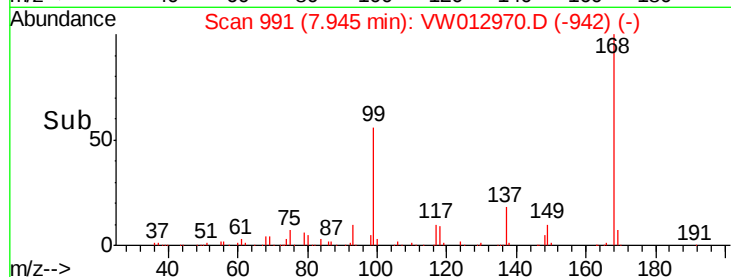
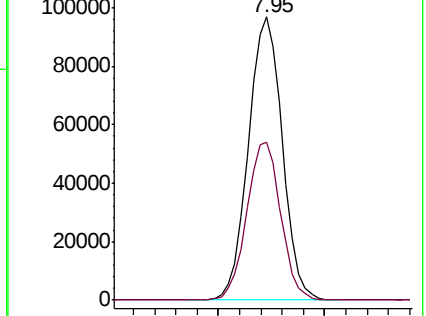
168 100

99 56.0 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW012970.D

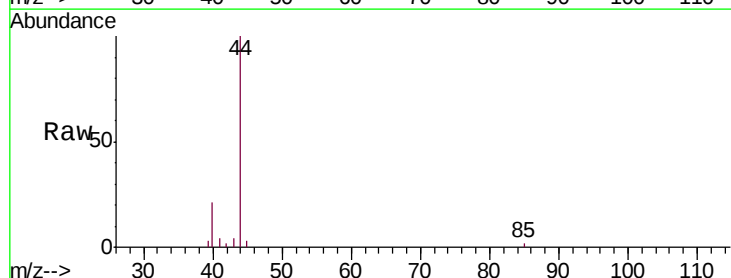
Acq: 13 Sep 2019 23:08

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

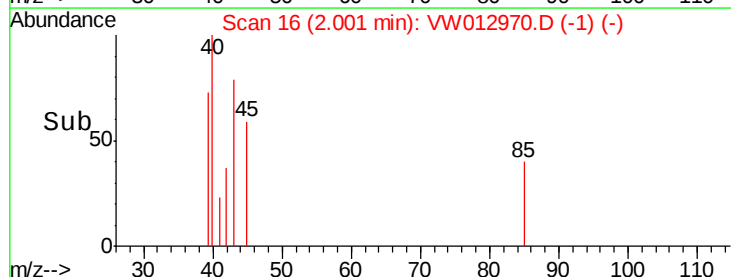
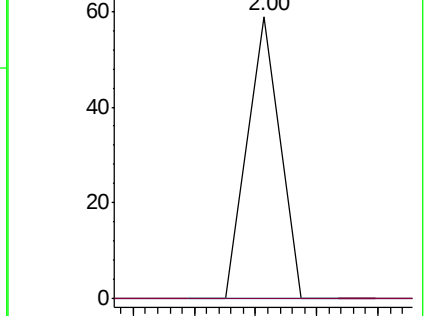
85 100

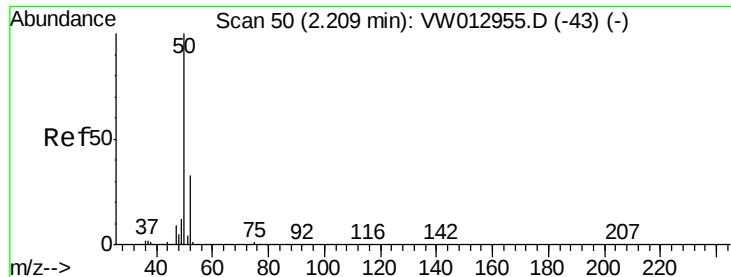
87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

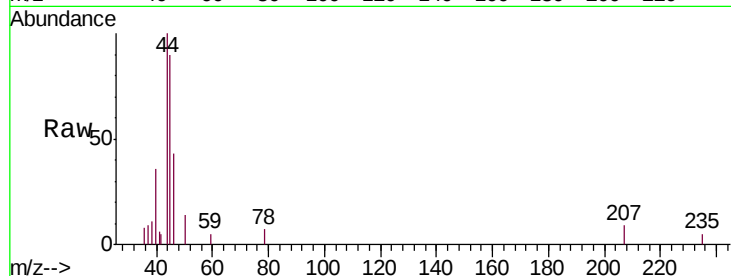
T4-4(0)-BRUCKNER

Tgt Ion: 50 Resp: 242

Ion Ratio Lower Upper

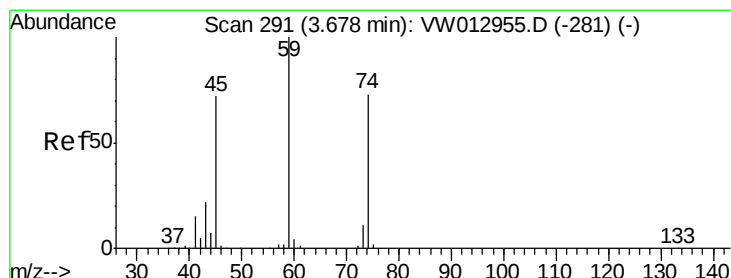
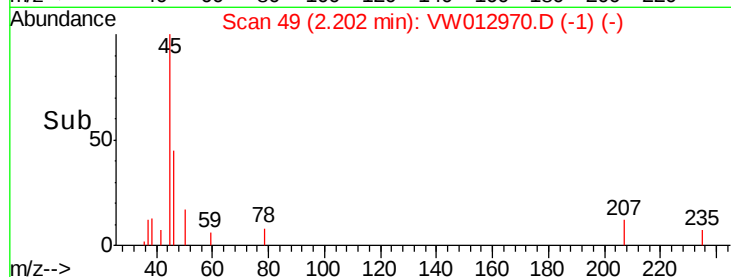
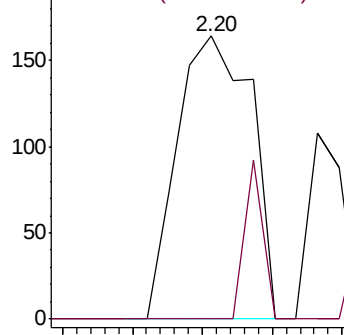
50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#8

Diethyl Ether

Concen: 1.611 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012970.D

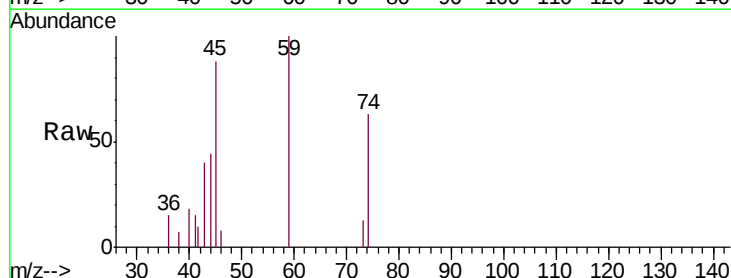
Acq: 13 Sep 2019 23:08

Tgt Ion: 74 Resp: 1362

Ion Ratio Lower Upper

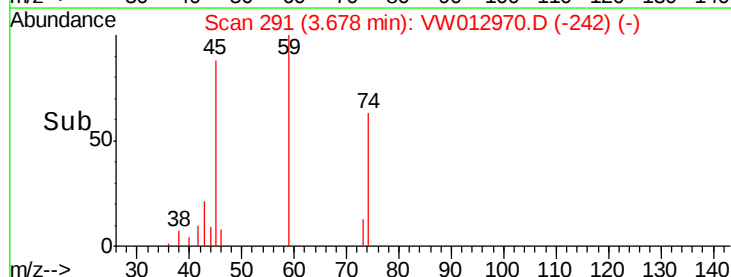
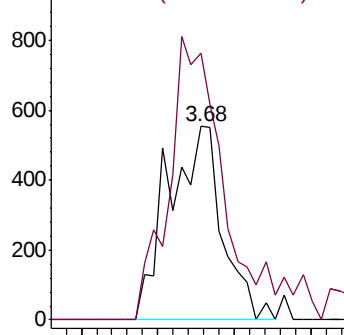
74 100

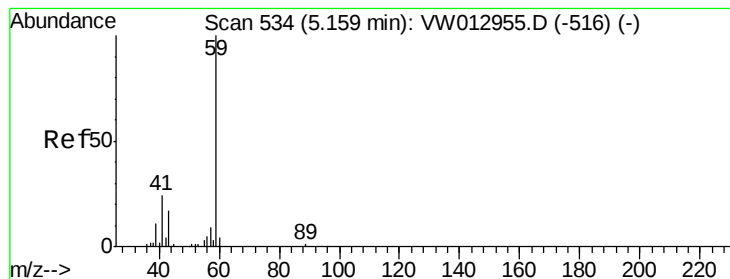
45 154.8 53.8 161.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



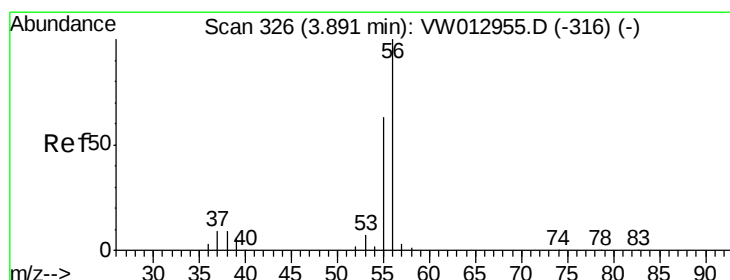
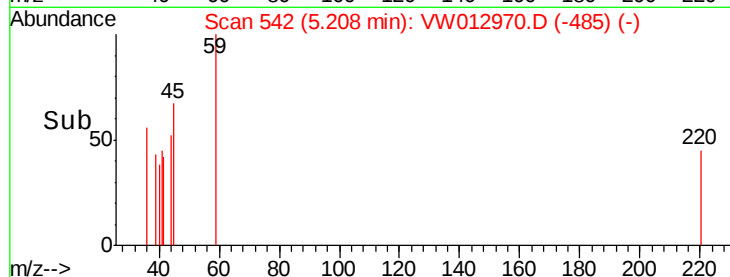
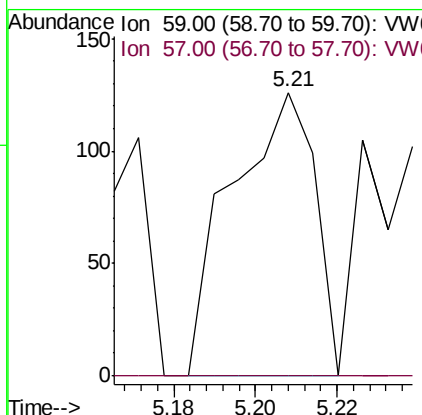
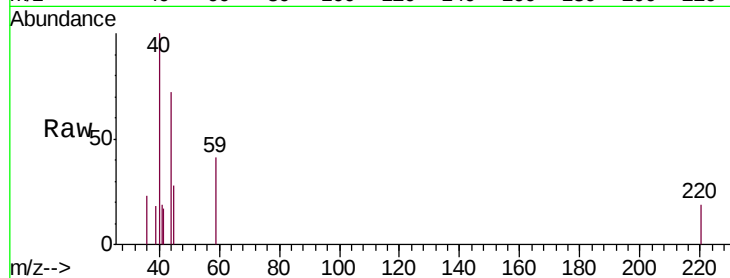


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 542
 Delta R.T. 0.05 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-BRUCKNER

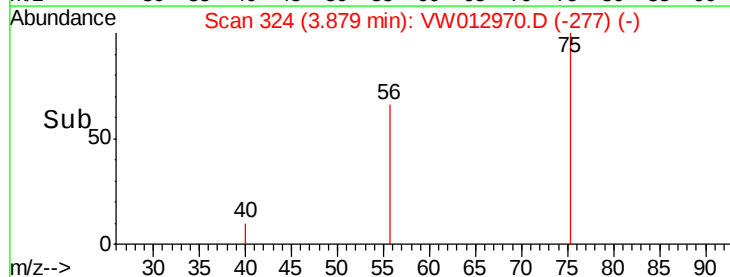
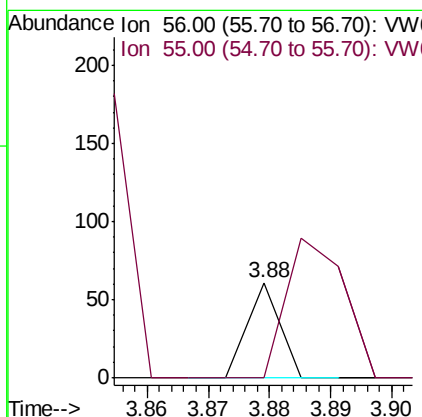
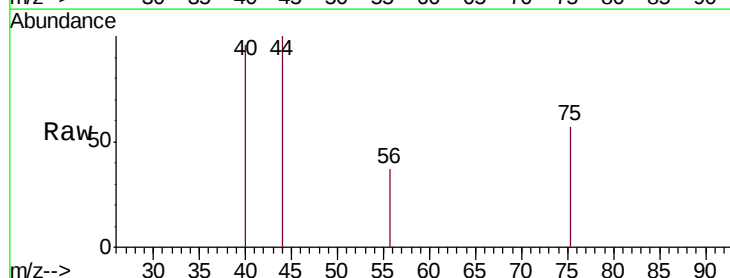
Tgt Ion: 59 Resp: 179
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

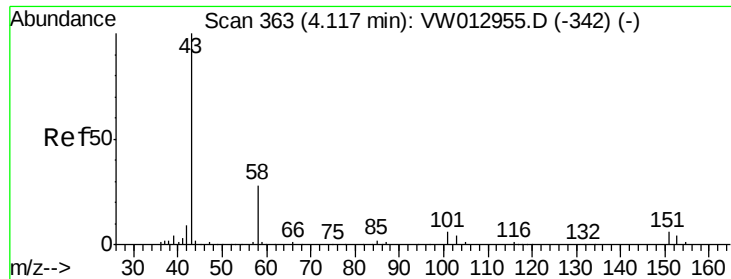


#13

Acrolein
 Concen: Below Cal
 RT: 3.88 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

Tgt Ion: 56 Resp: 22
 Ion Ratio Lower Upper
 56 100
 55 268.2 55.8 83.8#





#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.04 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

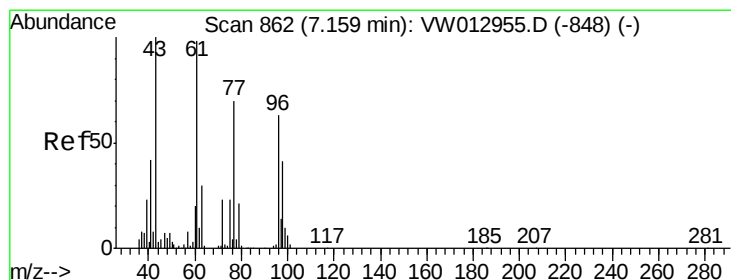
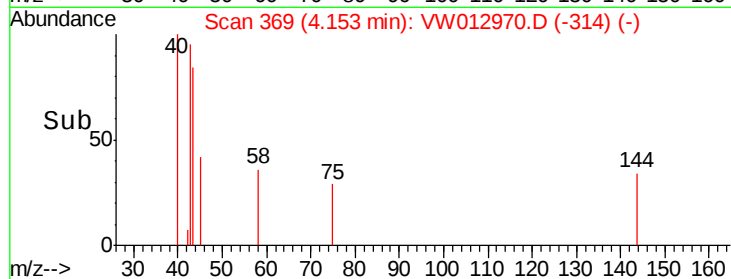
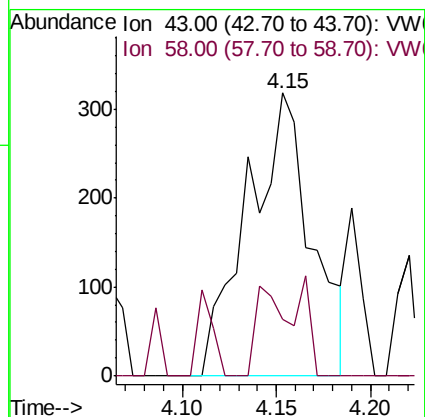
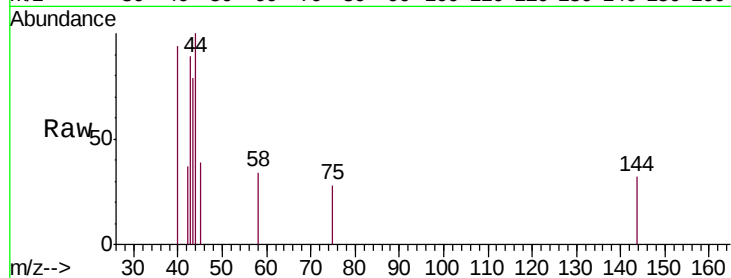
T4-4(0)-BRUCKNER

Tgt Ion: 43 Resp: 747

Ion Ratio Lower Upper

43 100

58 20.1 22.3 33.5#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW012970.D

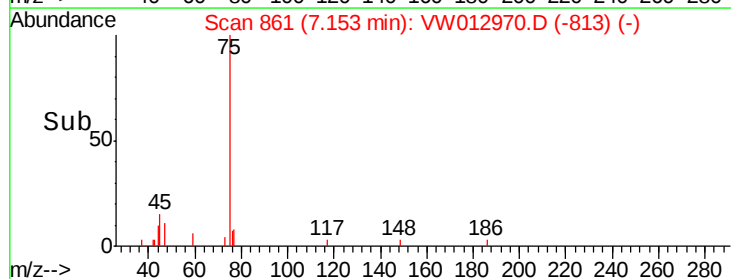
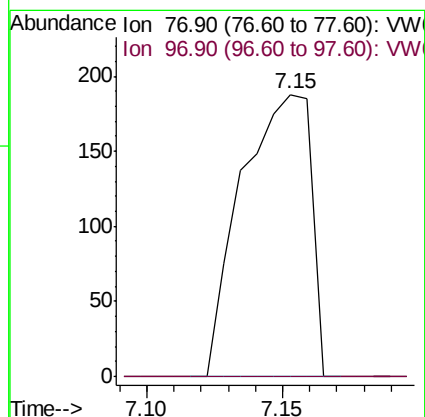
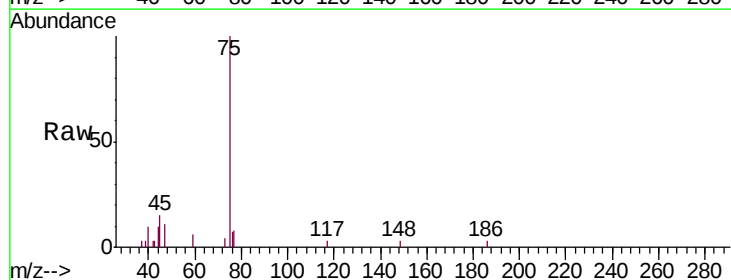
Acq: 13 Sep 2019 23:08

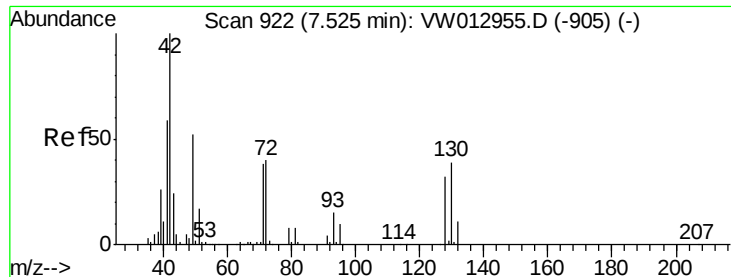
Tgt Ion: 77 Resp: 332

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#

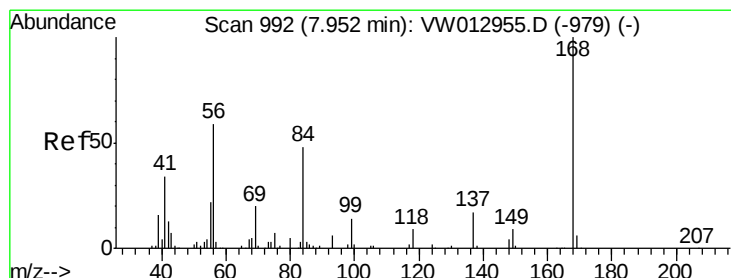
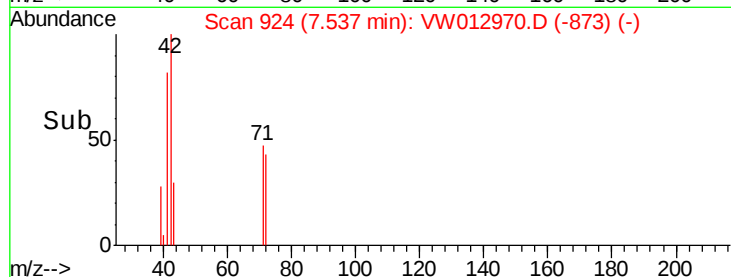
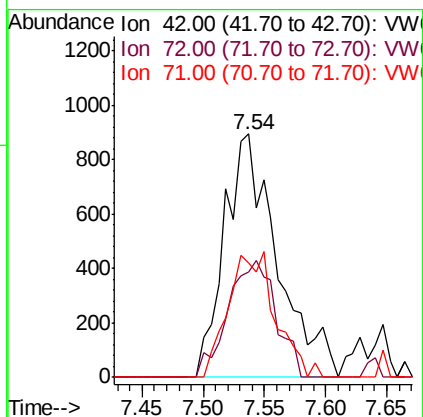
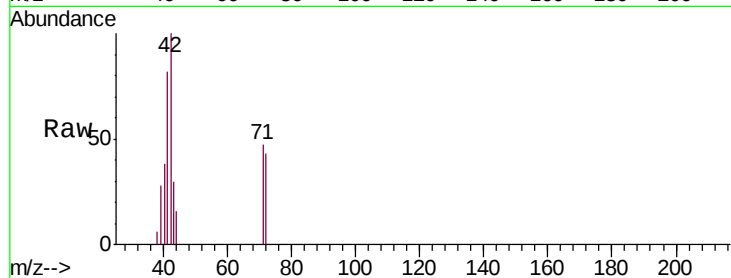




#29
Tetrahydrofuran
Concen: 7.428 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.01 min
Lab File: VW012970.D
Acq: 13 Sep 2019 23:08

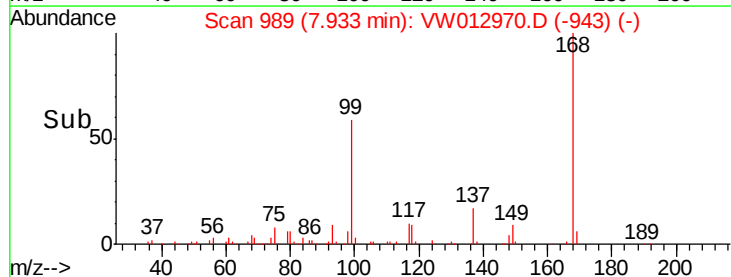
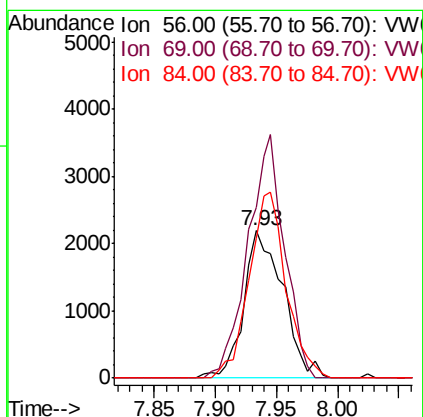
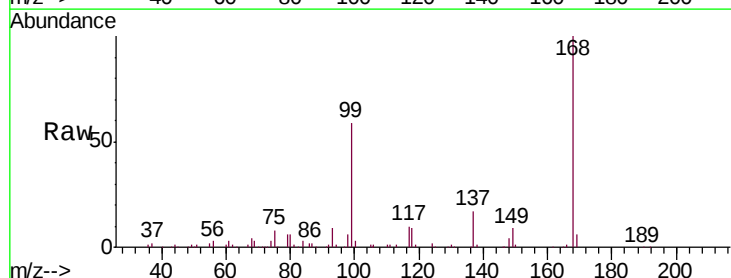
Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-BRUCKNER

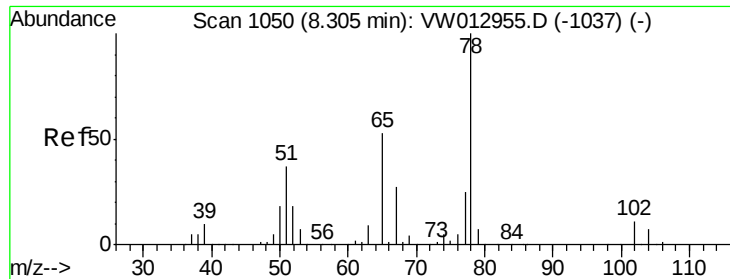
Tgt Ion: 42 Resp: 2689
Ion Ratio Lower Upper
42 100
72 43.3 31.4 47.0
71 45.7 29.8 44.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.93 min Scan# 989
Delta R.T. -0.02 min
Lab File: VW012970.D
Acq: 13 Sep 2019 23:08

Tgt Ion: 56 Resp: 4876
Ion Ratio Lower Upper
56 100
69 115.7 27.0 40.6#
84 95.1 66.2 99.2

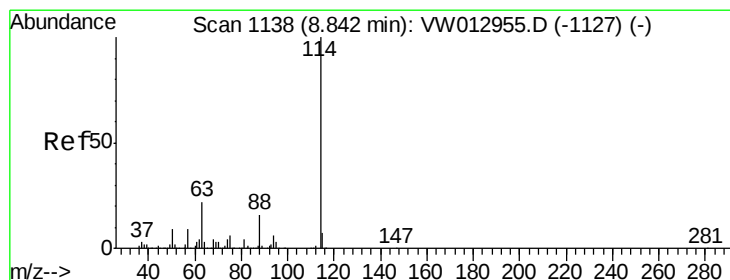
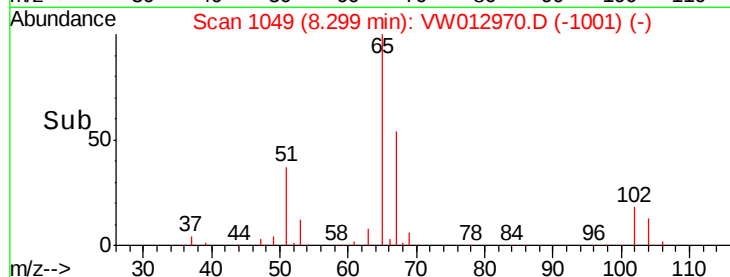
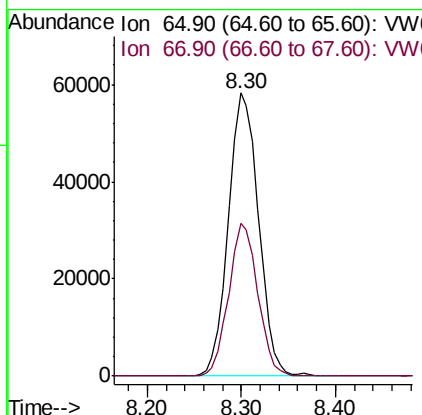
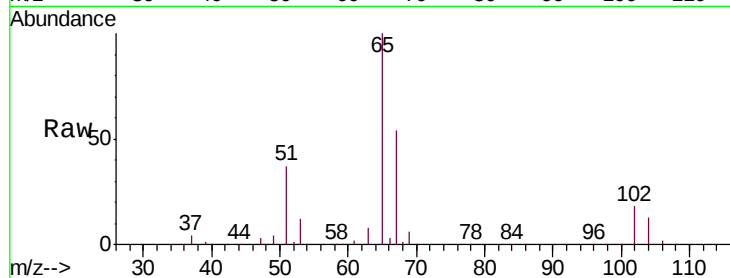




#33
 1,2-Dichloroethane-d4
 Concen: 65.055 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

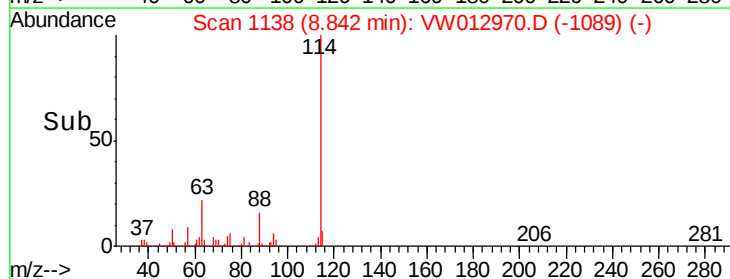
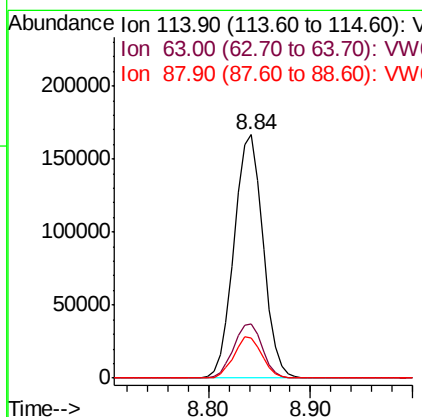
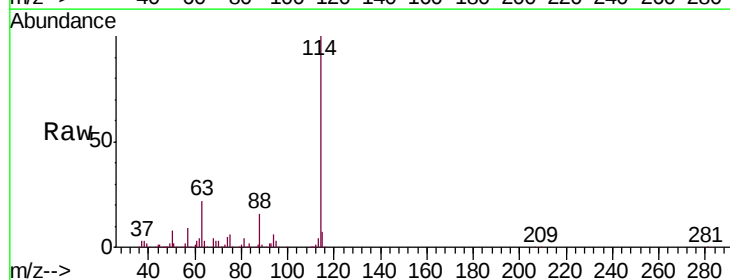
Instrument :
 MSVOA_W
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 T4-4(0)-BRUCKNER

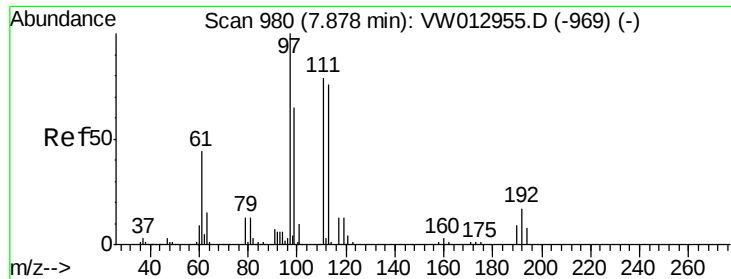
Tgt Ion: 65 Resp: 129990
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

Tgt Ion: 114 Resp: 327953
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 16.3 0.0 31.6

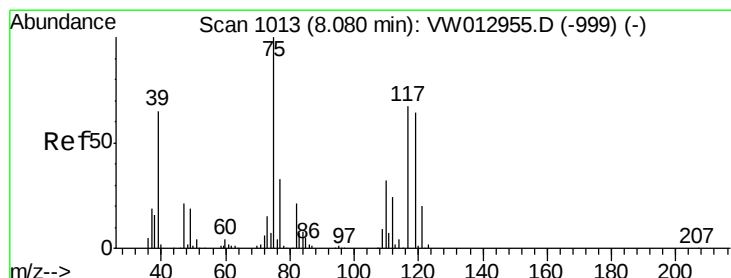
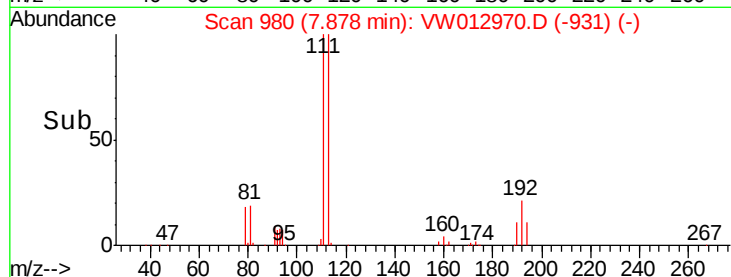
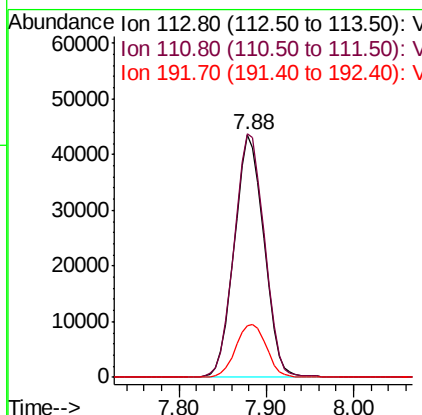
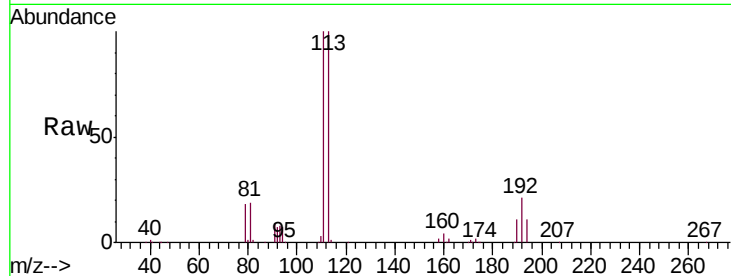




#35
 Dibromofluoromethane
 Concen: 57.789 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

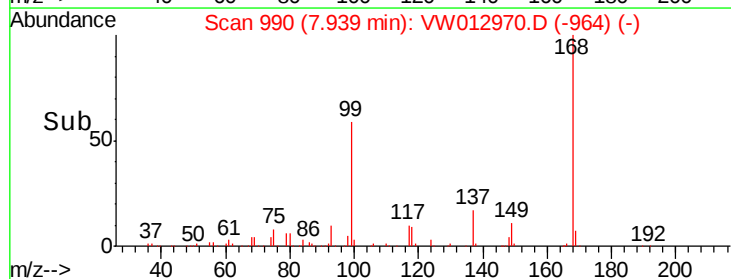
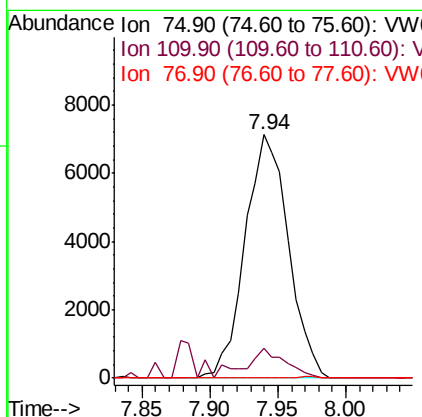
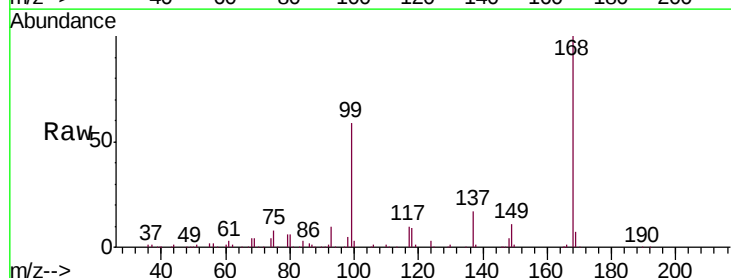
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-4(0)-BRUCKNER

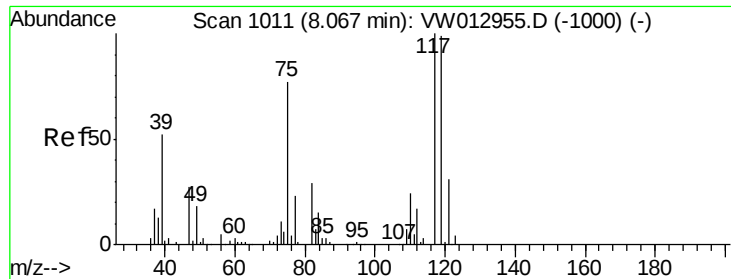
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.8	124.2
192	22.6	17.8	26.8



#36
 1,1-Dichloropropene
 Concen: 6.070 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW012970.D
 Acq: 13 Sep 2019 23:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	16.4	49.1#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 7.950 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-BRUCKNER

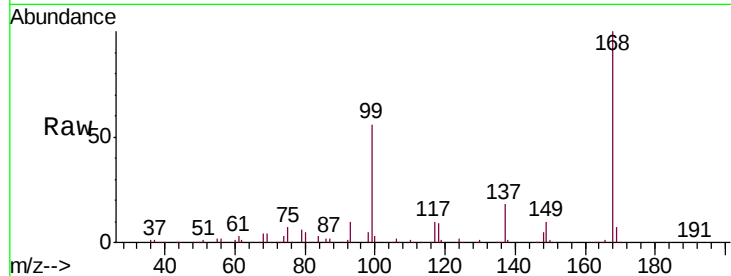
Tgt Ion:117 Resp: 21349

Ion Ratio Lower Upper

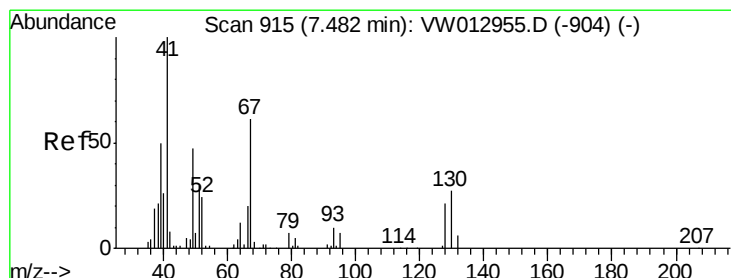
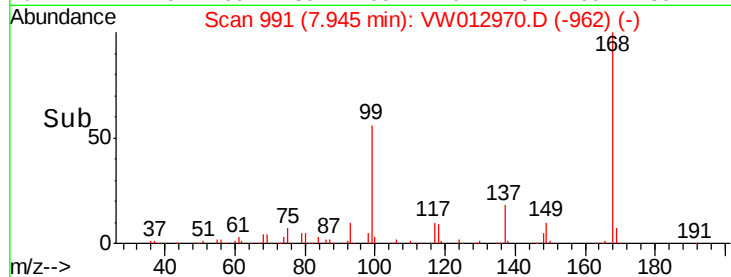
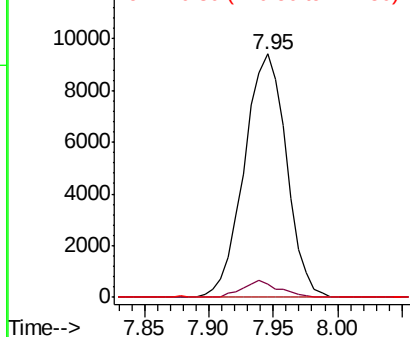
117 100

119 5.4 79.4 119.0#

121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 1.769 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.05 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Tgt Ion: 41 Resp: 1620

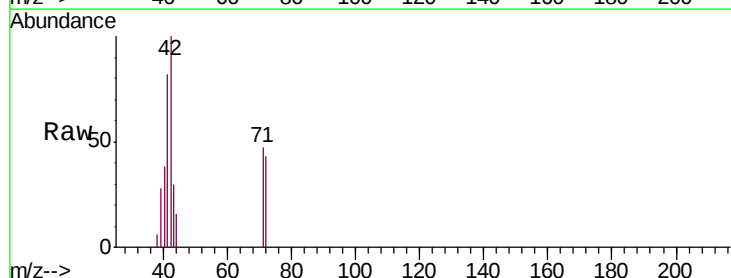
Ion Ratio Lower Upper

41 100

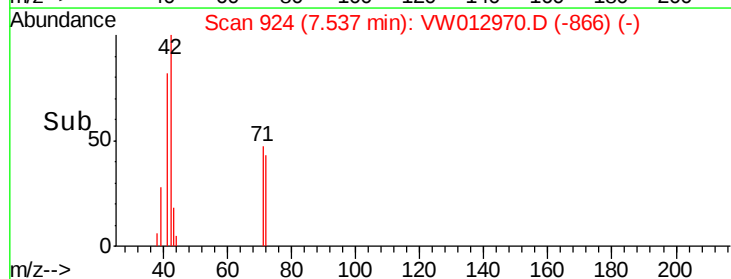
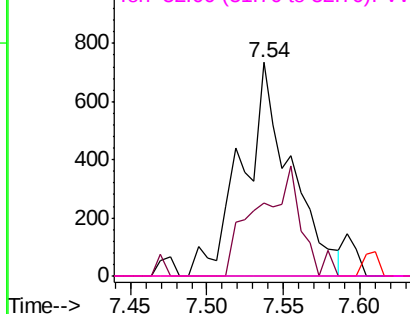
39 46.8 48.2 72.4#

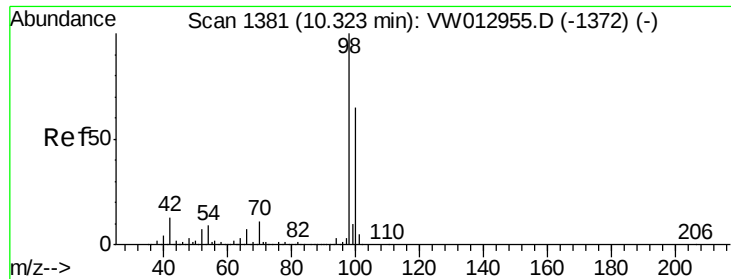
67 0.0 47.5 71.3#

52 0.0 21.0 31.4#



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW





#50

Toluene-d8

Concen: 51.251 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

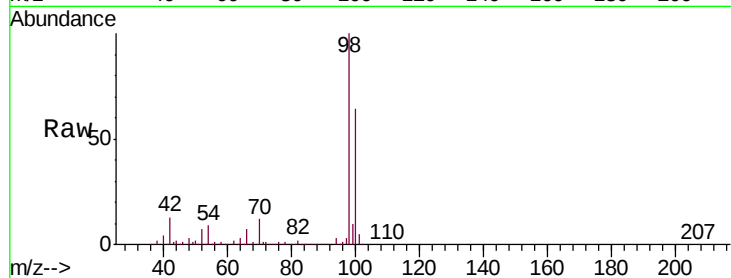
T4-4(0)-BRUCKNER

Tgt Ion: 98 Resp: 356882

Ion Ratio Lower Upper

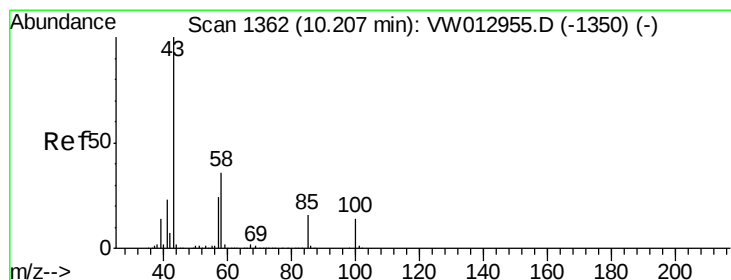
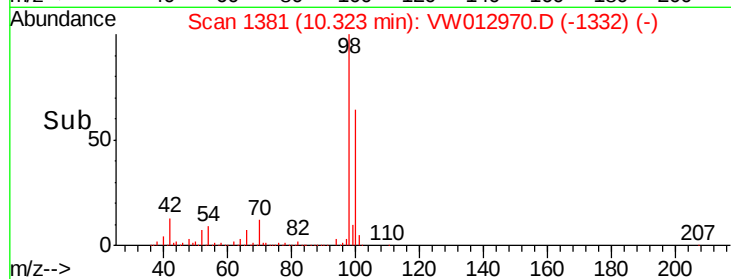
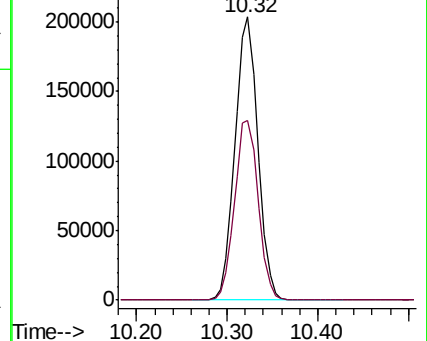
98 100

100 65.7 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.518 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW012970.D

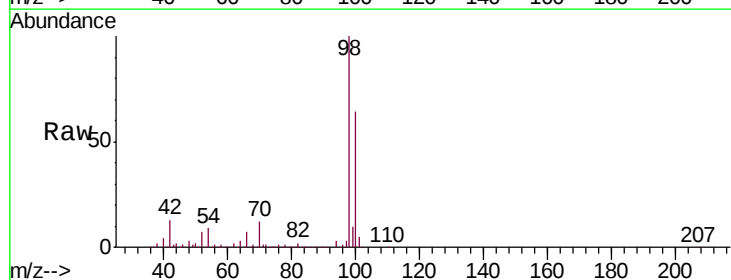
Acq: 13 Sep 2019 23:08

Tgt Ion: 43 Resp: 2093

Ion Ratio Lower Upper

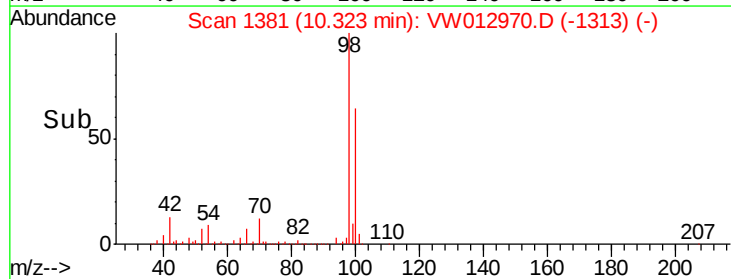
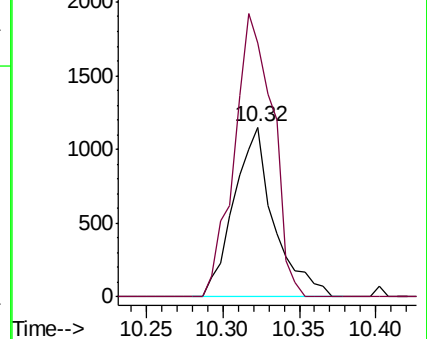
43 100

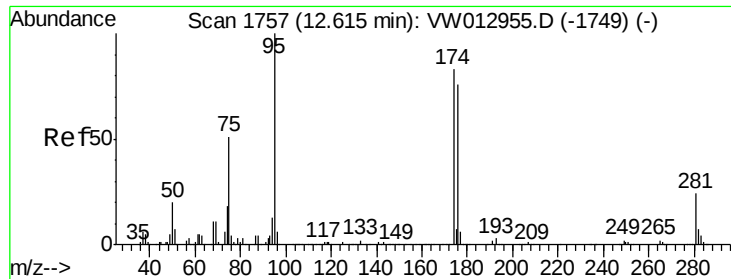
58 161.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

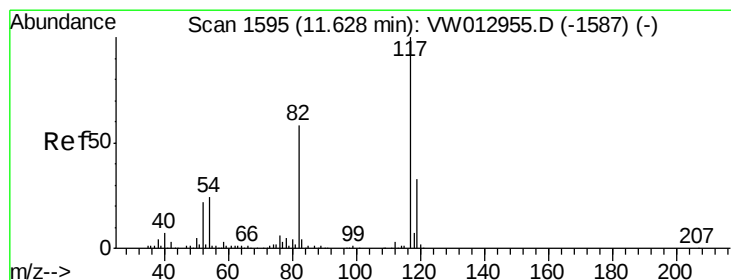
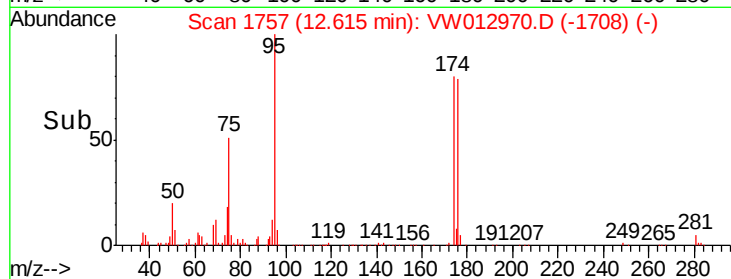
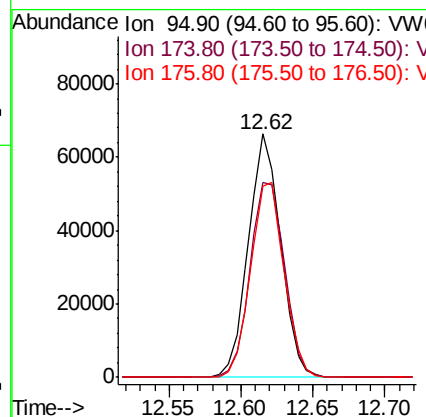
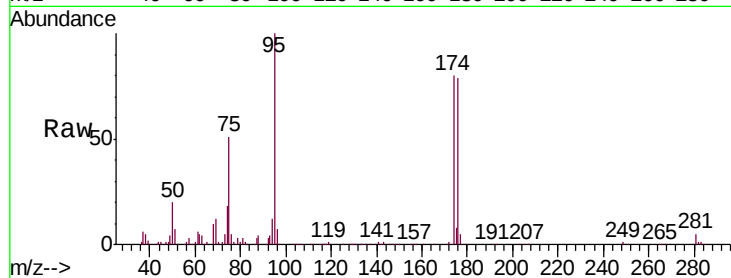




#62
4-Bromofluorobenzene
Concen: 41.026 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012970.D
Acq: 13 Sep 2019 23:08

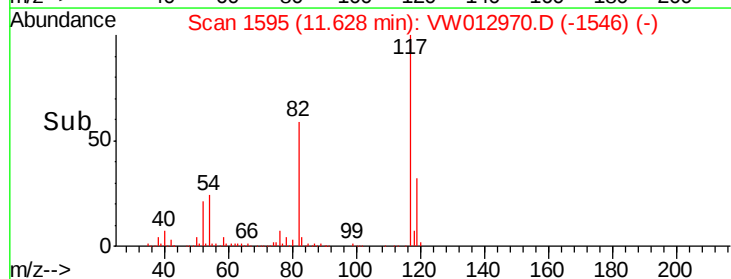
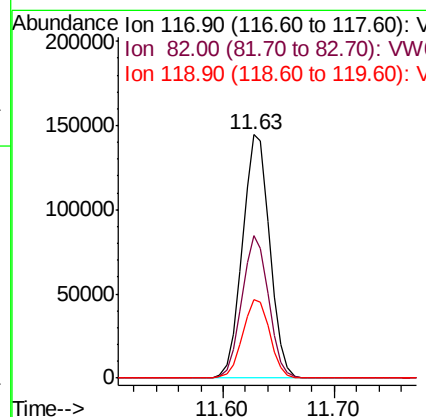
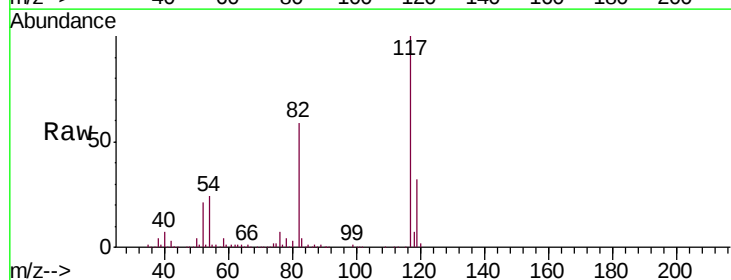
Instrument :
MSVOA_W
ClientSampleId :
T4-4(0)-BRUCKNER

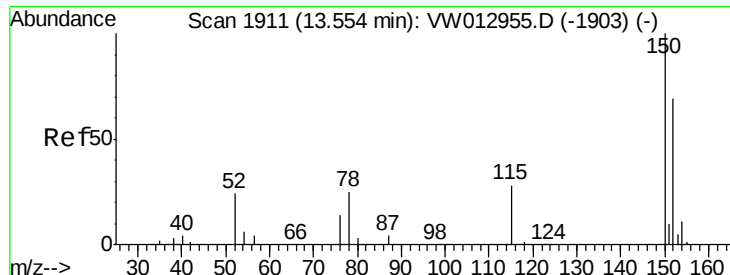
Tgt Ion: 95 Resp: 102725
Ion Ratio Lower Upper
95 100
174 85.6 0.0 170.4
176 83.0 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW012970.D
Acq: 13 Sep 2019 23:08

Tgt Ion: 117 Resp: 244318
Ion Ratio Lower Upper
117 100
82 58.8 46.3 69.5
119 32.3 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.00 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-BRUCKNER

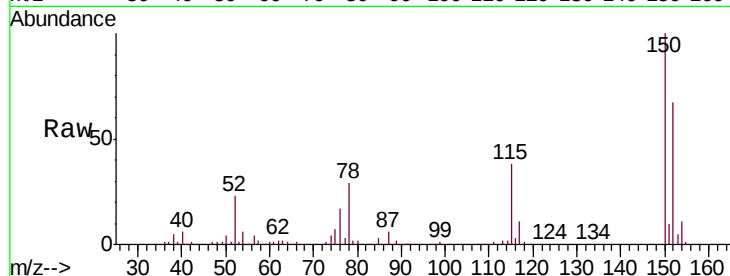
Tgt Ion:152 Resp: 93082

Ion Ratio Lower Upper

152 100

115 57.2 28.8 86.4

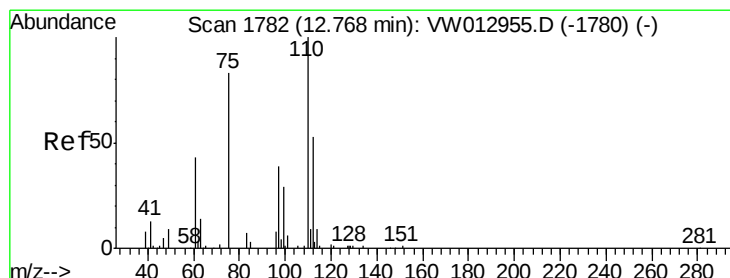
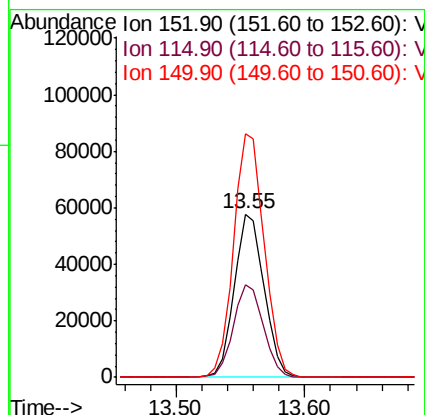
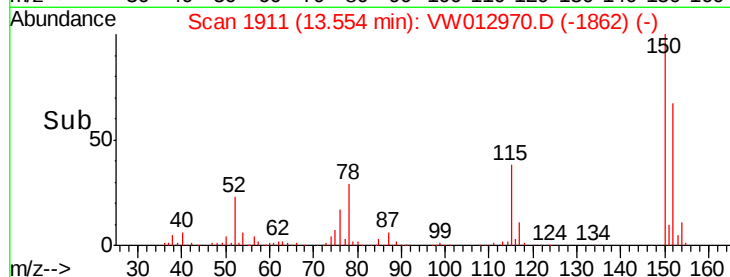
150 152.7 0.0 340.2



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



#76

1,2,3-Trichloropropane

Concen: 65.755 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012970.D

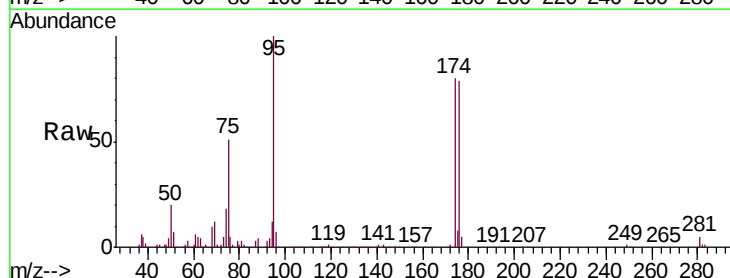
Acq: 13 Sep 2019 23:08

Tgt Ion: 75 Resp: 53612

Ion Ratio Lower Upper

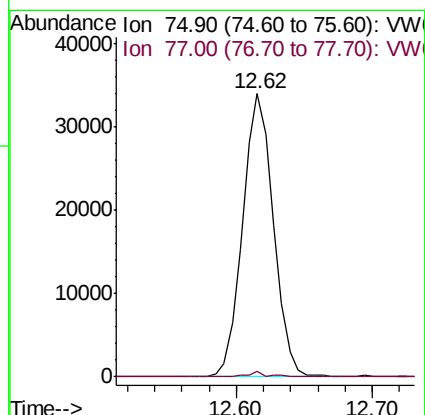
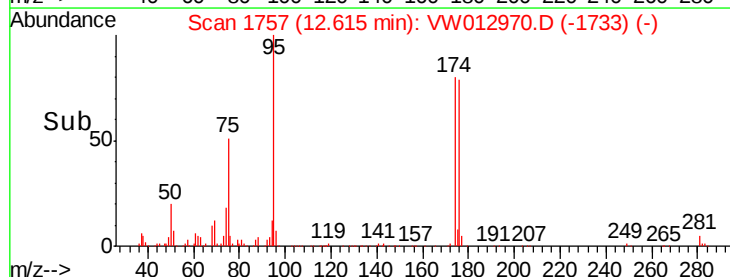
75 100

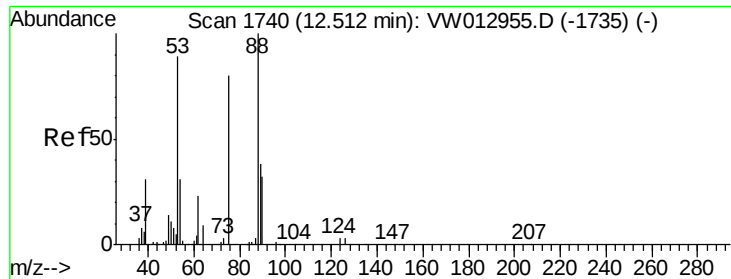
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 149.165 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012970.D

Acq: 13 Sep 2019 23:08

Instrument :

MSVOA_W

ClientSampleId :

T4-4(0)-BRUCKNER

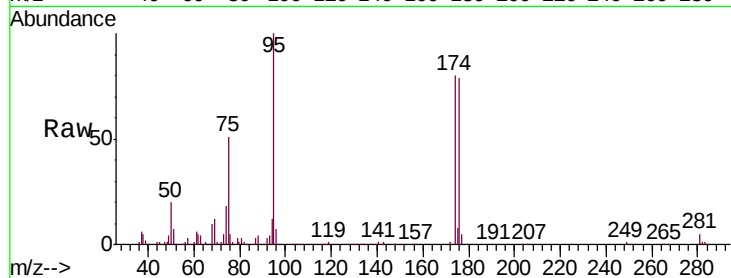
Tgt Ion: 75 Resp: 53612

Ion Ratio Lower Upper

75 100

53 0.0 85.6 128.4#

89 0.1 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

