

Data File : VW012965.D
Acq On : 13 Sep 2019 20:59
Operator : SY/VA
Sample : K4719-03
Misc : 6.77G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T4-1-(1.5)-BRUCKNER

Quant Time: Sep 14 04:23:45 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	272310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	407425	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	327785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	131434	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	143590	57.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.18%	
35) Dibromofluoromethane	7.88	113	118665	53.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.36%	
50) Toluene-d8	10.32	98	473052	54.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.36%	
62) 4-Bromofluorobenzene	12.62	95	141197	45.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.78%	

Target Compounds

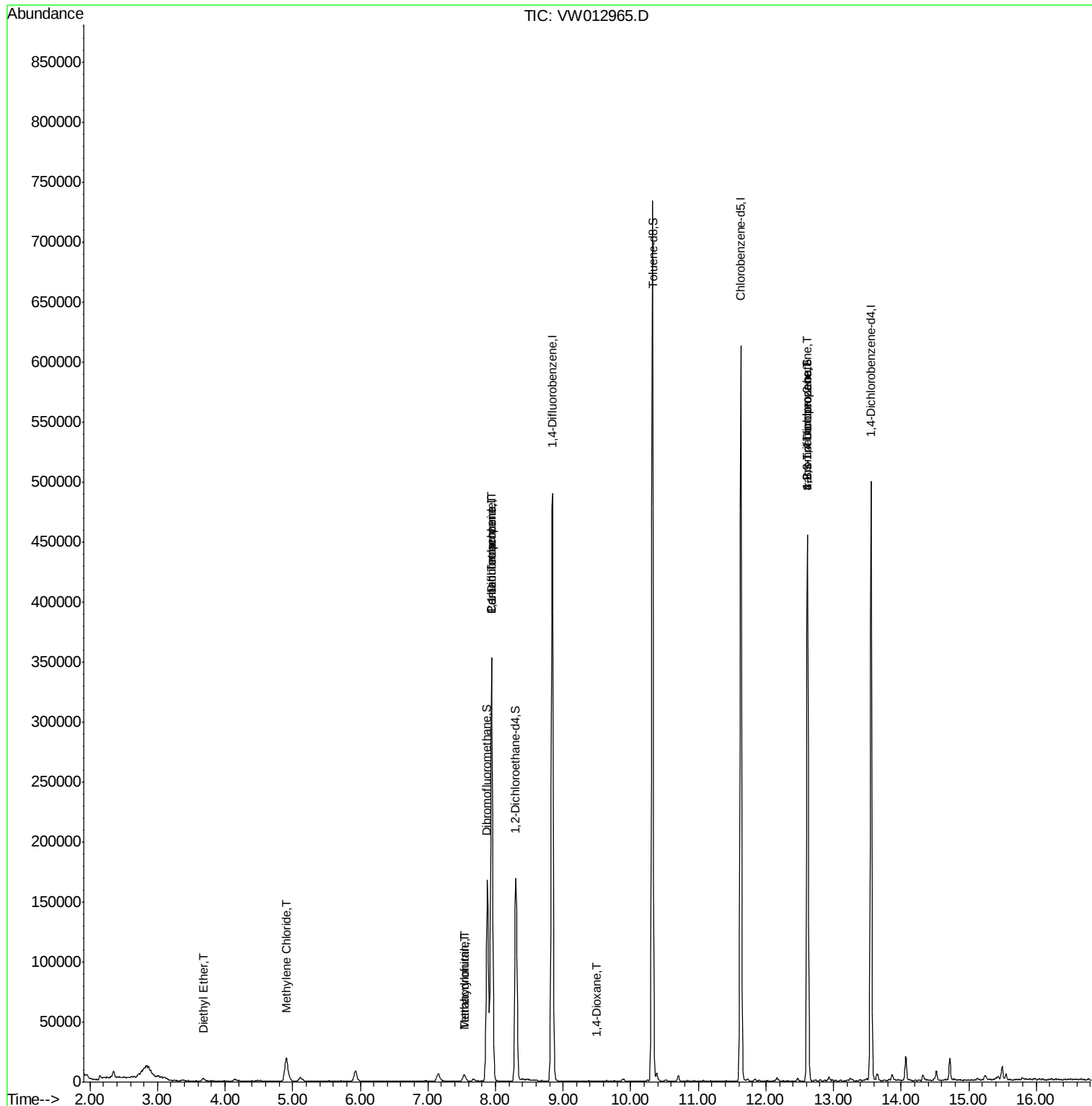
						Qvalue
3) Chloromethane	2.21	50	226	Below Cal	#	41
8) Diethyl Ether	3.67	74	1311	1.232	ug/l	63
11) Tert butyl alcohol	5.12	59	3108	Below Cal	#	72
13) Acrolein	3.91	56	25	Below Cal		92
16) Acetone	4.15	43	3226	Below Cal		93
20) Methylene Chloride	4.90	84	15440	2.692	ug/l	97
26) 2,2-Dichloropropane	7.15	77	537	Below Cal	#	55
29) Tetrahydrofuran	7.53	42	4779	10.488	ug/l #	87
31) Cyclohexane	7.93	56	6216	Below Cal	#	27
36) 1,1-Dichloropropene	7.94	75	20342	6.248	ug/l #	51
38) Carbon Tetrachloride	7.95	117	26020	7.799	ug/l #	14
41) Methacrylonitrile	7.53	41	3236	2.844	ug/l #	56
49) 1,4-Dioxane	9.49	88	20	1.032	ug/l #	51
76) 1,2,3-Trichloropropane	12.62	75	75207	65.326	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	75207	148.191	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: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

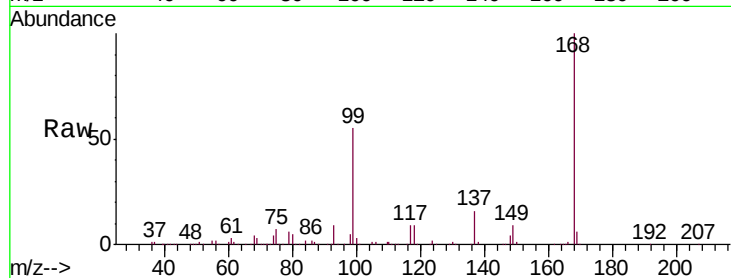
T4-1-(1.5)-BRUCKNER

Tgt Ion:168 Resp: 272310

Ion Ratio Lower Upper

168 100

99 55.3 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

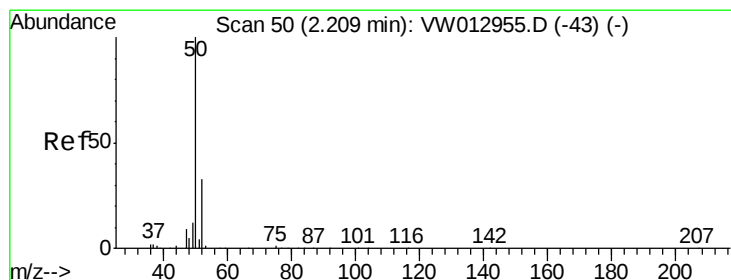
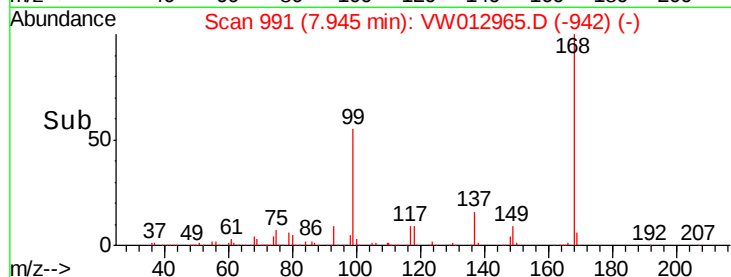
7.95

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW012965.D

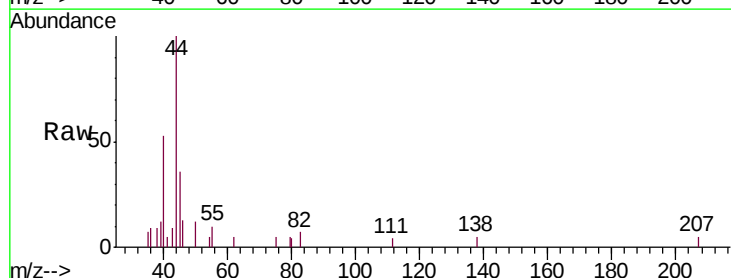
Acq: 13 Sep 2019 20:59

Tgt Ion: 50 Resp: 226

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

2.21

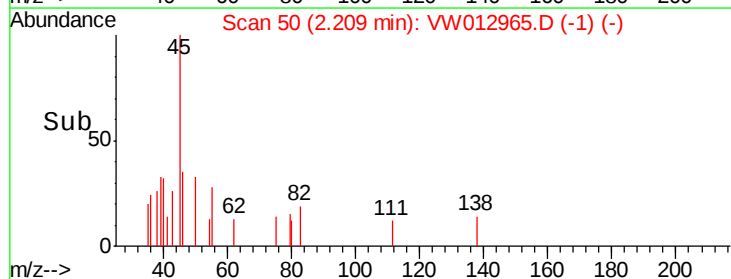
150

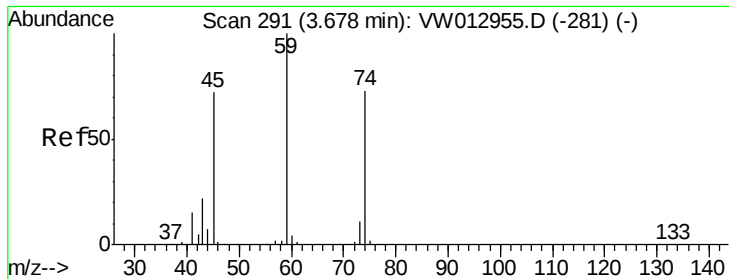
100

50

0

Time--> 2.16 2.18 2.20 2.22 2.24





#8

Diethyl Ether

Concen: 1.232 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

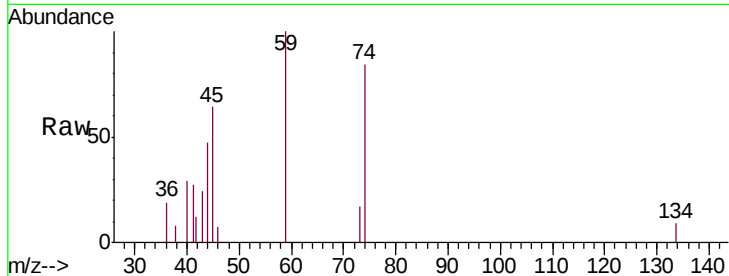
T4-1-(1.5)-BRUCKNER

Tgt Ion: 74 Resp: 1311

Ion Ratio Lower Upper

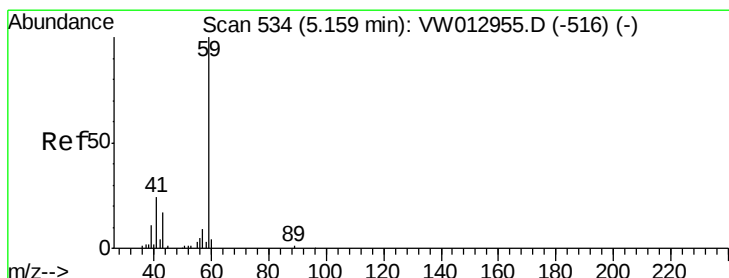
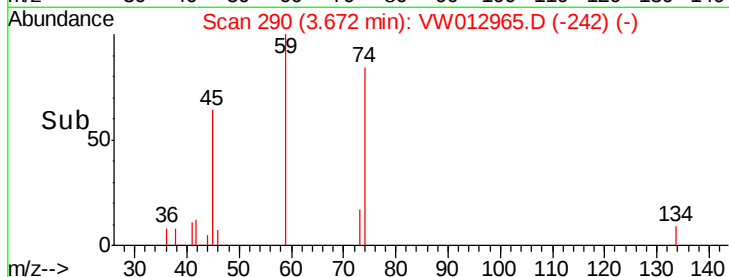
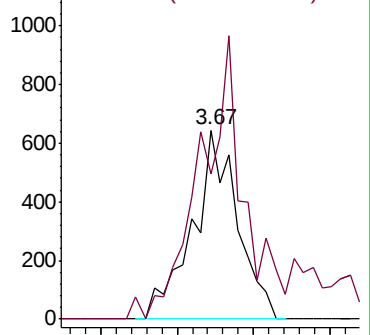
74 100

45 146.7 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: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW012965.D

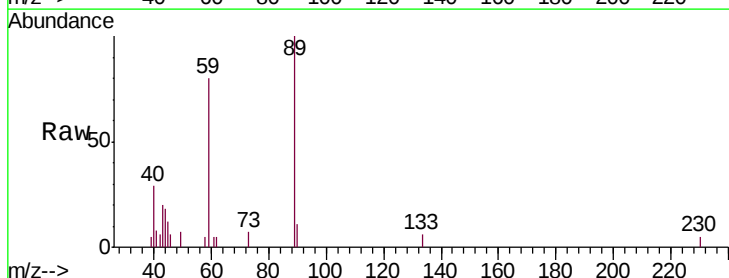
Acq: 13 Sep 2019 20:59

Tgt Ion: 59 Resp: 3108

Ion Ratio Lower Upper

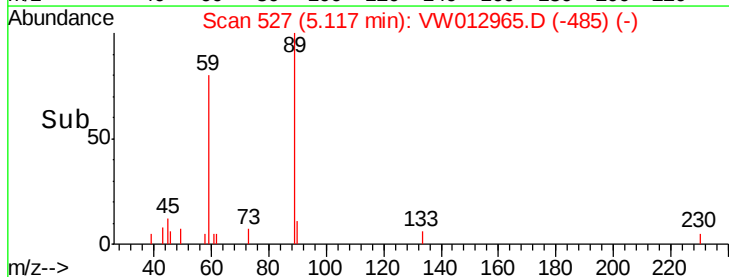
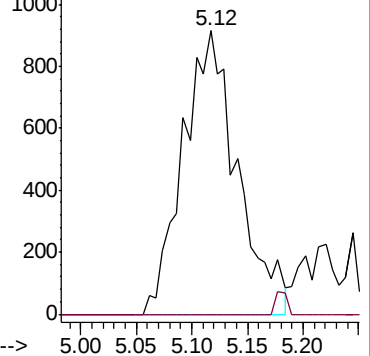
59 100

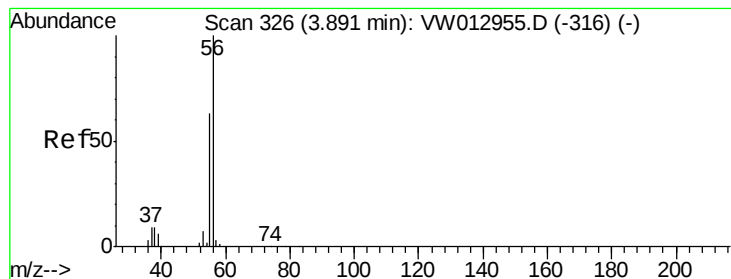
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

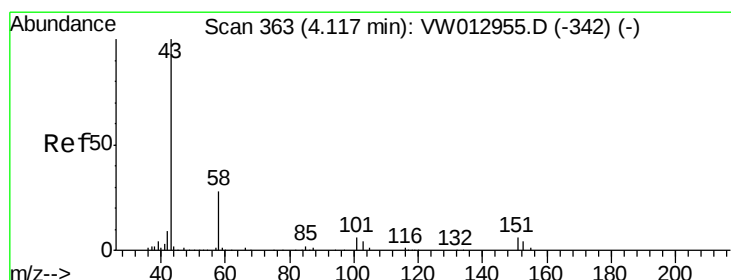
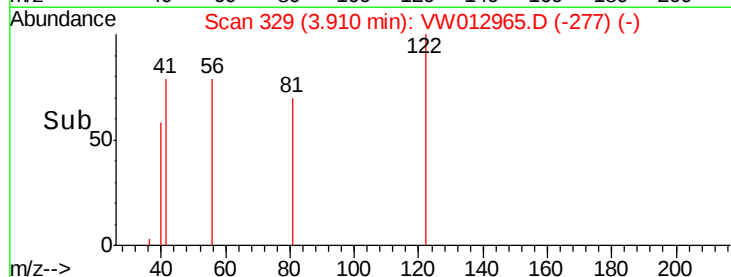
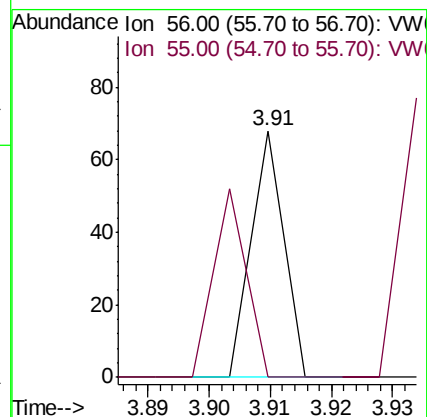
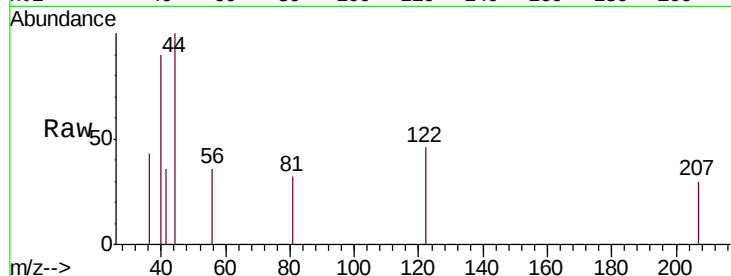
Instrument :
MSVOA_W
ClientSampleId :
T4-1-(1.5)-BRUCKNER

Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 76.0 55.8 83.8



#16

Acetone

Concen: Below Cal

RT: 4.15 min Scan# 369

Delta R.T. 0.04 min

Lab File: VW012965.D

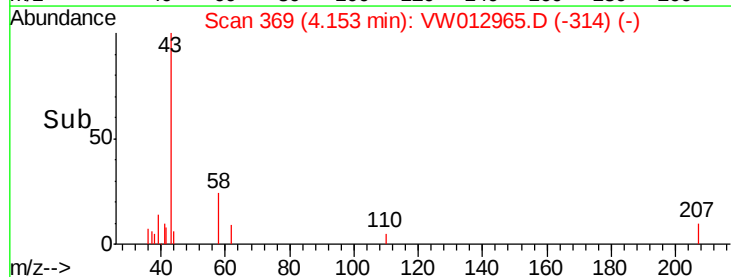
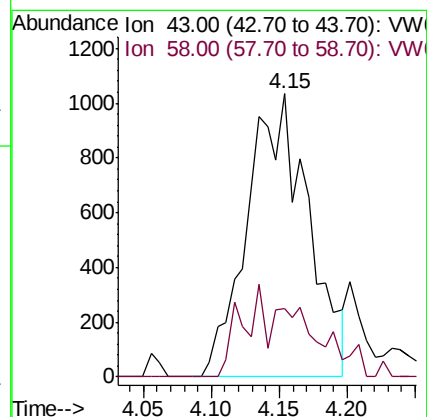
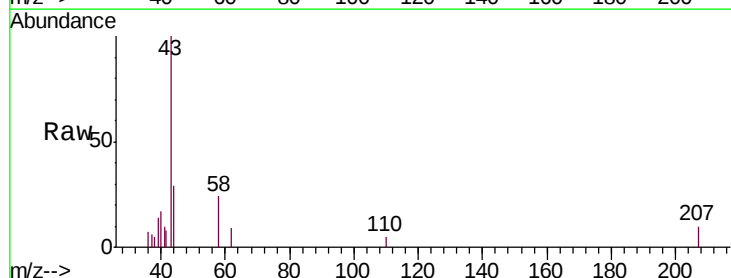
Acq: 13 Sep 2019 20:59

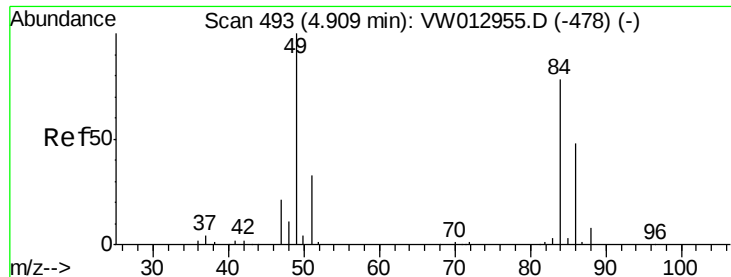
Tgt Ion: 43 Resp: 3226

Ion Ratio Lower Upper

43 100

58 24.4 22.3 33.5





#20

Methylene Chloride

Concen: 2.692 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

T4-1-(1.5)-BRUCKNER

Tgt Ion: 84 Resp: 15440

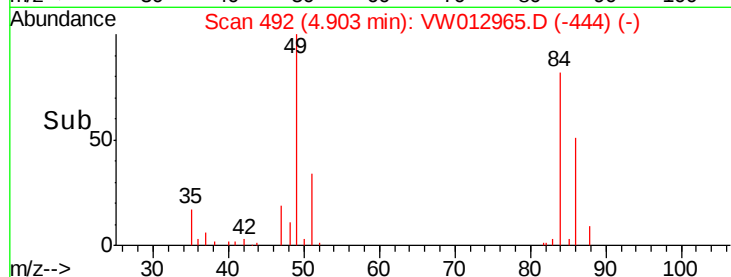
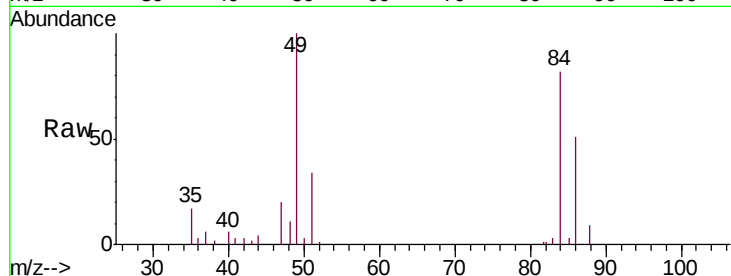
Ion Ratio Lower Upper

84 100

49 122.1 102.0 153.0

51 41.8 34.0 51.0

86 62.4 48.5 72.7



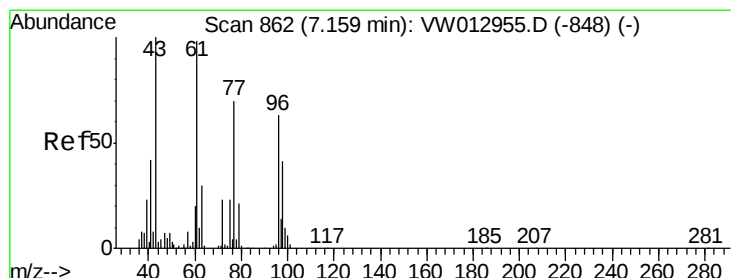
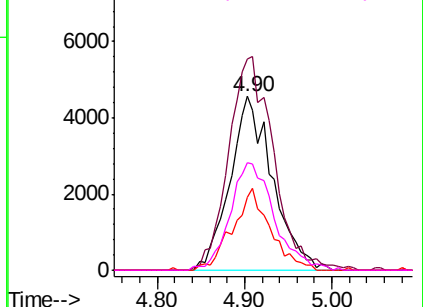
Abundance

Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.15 min Scan# 861

Delta R.T. -0.01 min

Lab File: VW012965.D

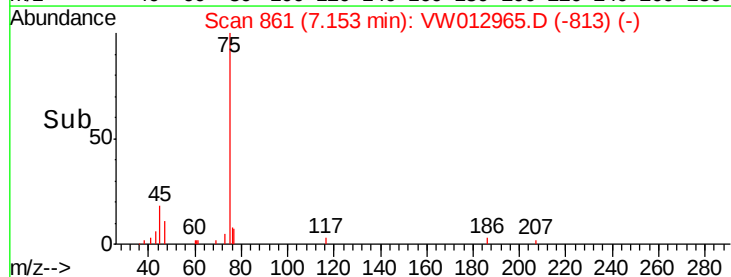
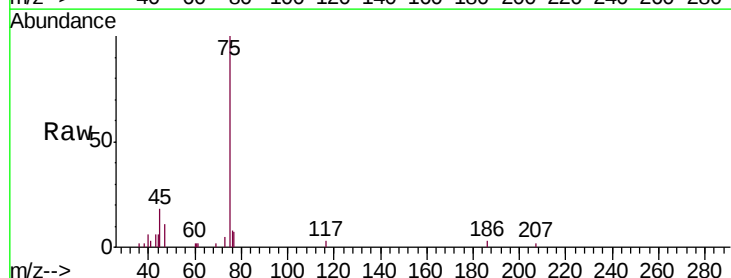
Acq: 13 Sep 2019 20:59

Tgt Ion: 77 Resp: 537

Ion Ratio Lower Upper

77 100

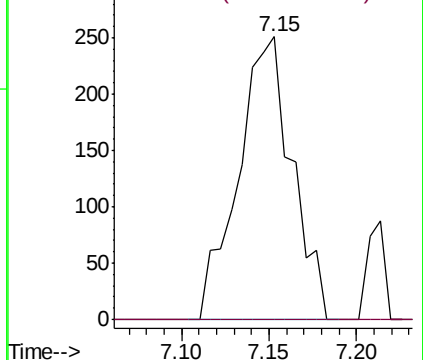
97 0.0 10.7 32.1#

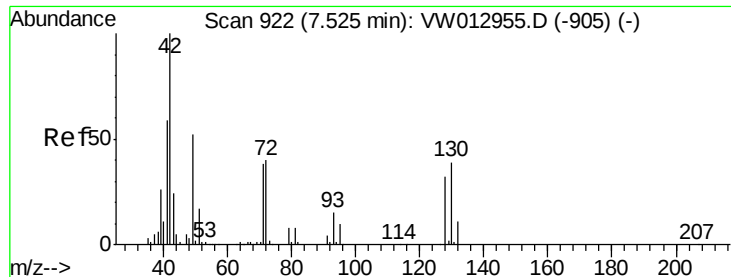


Abundance

Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

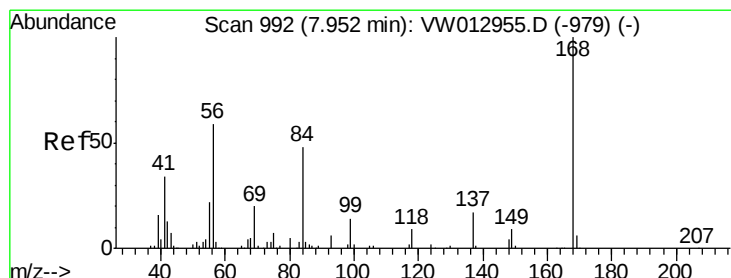
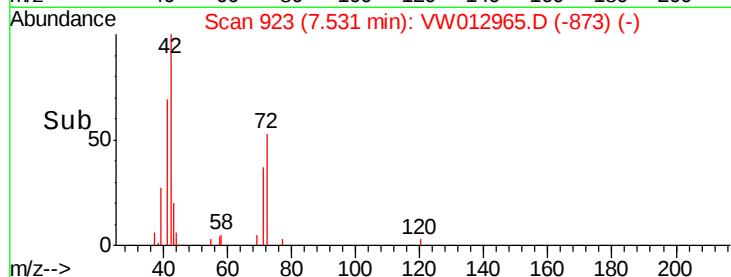
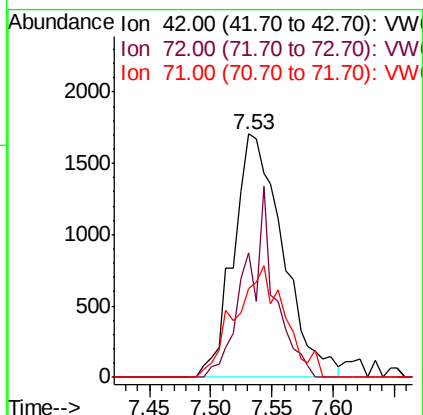
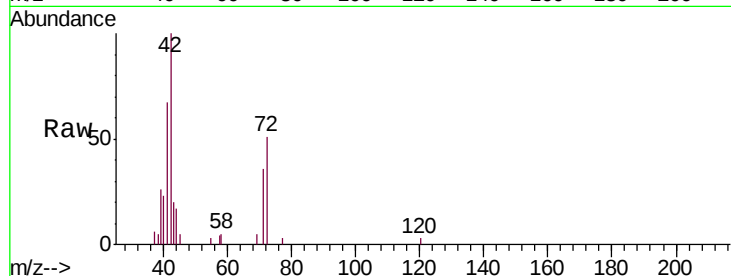




#29
Tetrahydrofuran
Concen: 10.488 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

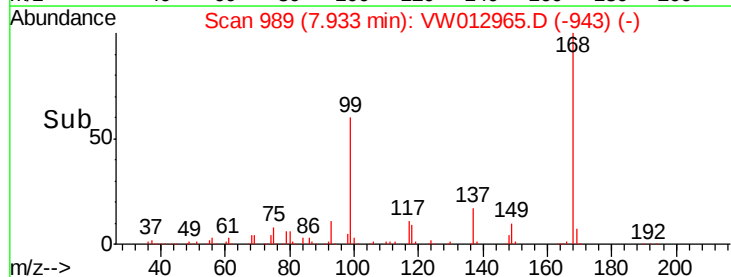
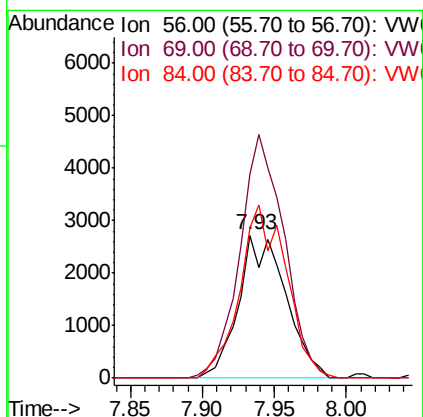
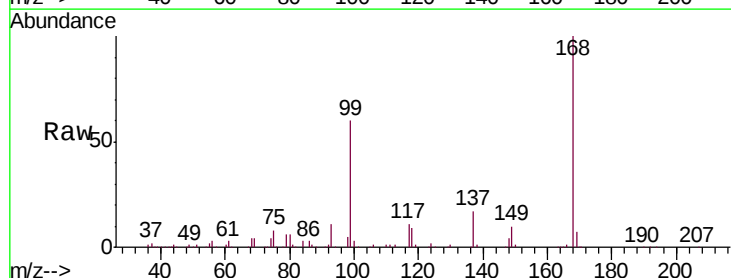
Instrument :
MSVOA_W
ClientSampleId :
T4-1-(1.5)-BRUCKNER

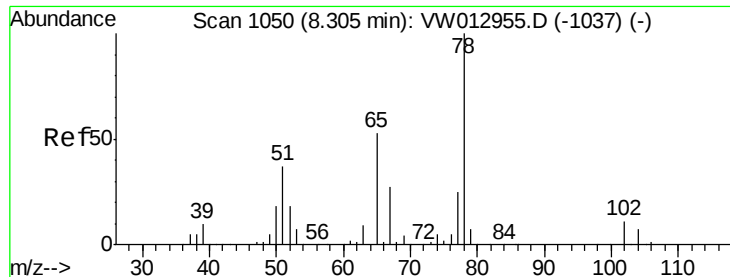
Tgt Ion: 42 Resp: 4779
Ion Ratio Lower Upper
42 100
72 46.1 31.4 47.0
71 46.0 29.8 44.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.93 min Scan# 989
Delta R.T. -0.02 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

Tgt Ion: 56 Resp: 6216
Ion Ratio Lower Upper
56 100
69 142.7 27.0 40.6#
84 105.4 66.2 99.2#

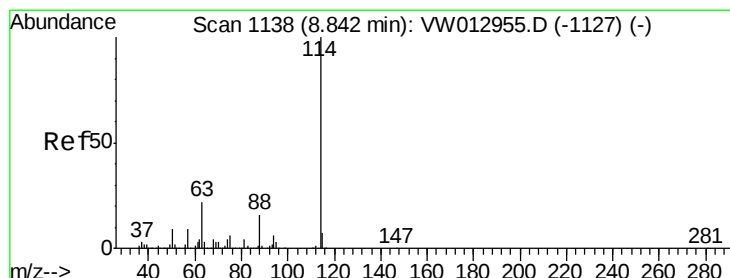
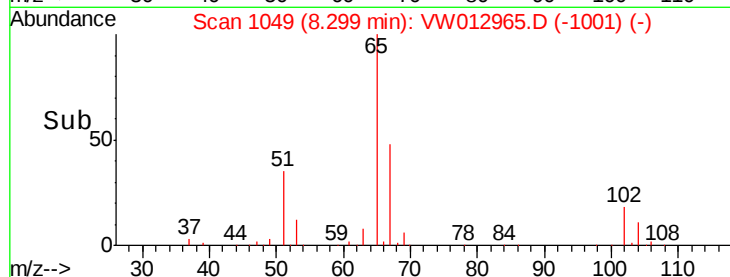
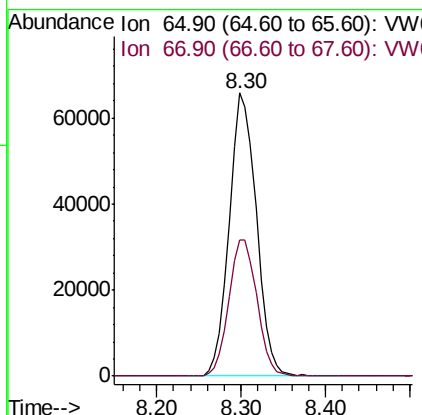
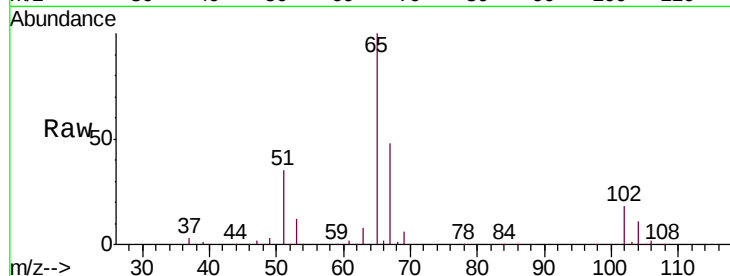




#33
 1,2-Dichloroethane-d4
 Concen: 57.094 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW012965.D
 Acq: 13 Sep 2019 20:59

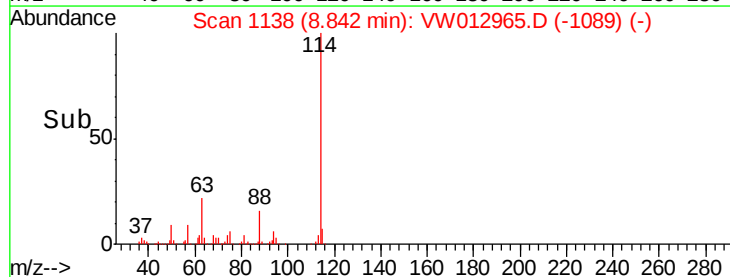
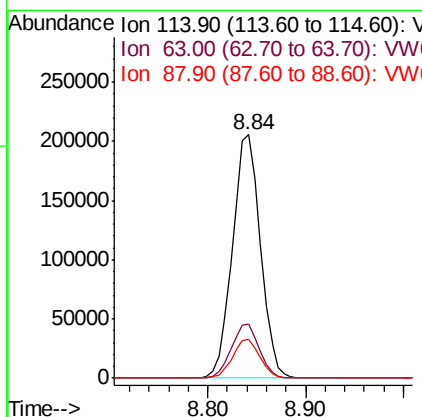
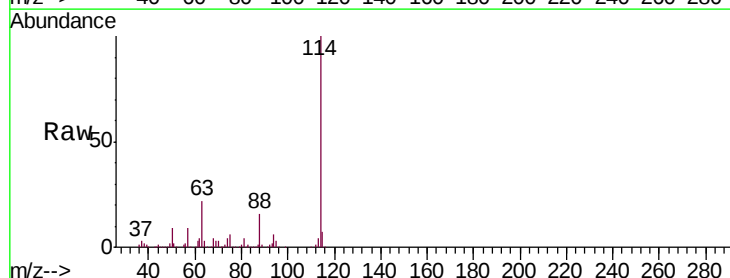
Instrument :
 MSVOA_W
 ClientSampleId :
 T4-1-(1.5)-BRUCKNER

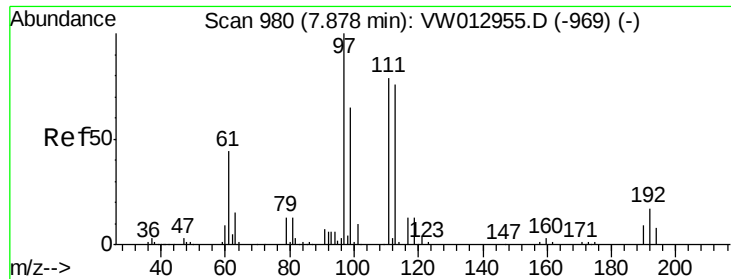
Tgt Ion: 65 Resp: 143590
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012965.D
 Acq: 13 Sep 2019 20:59

Tgt Ion: 114 Resp: 407425
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.4
 88 15.7 0.0 31.6





#35

Dibromofluoromethane

Concen: 53.677 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

T4-1-(1.5)-BRUCKNER

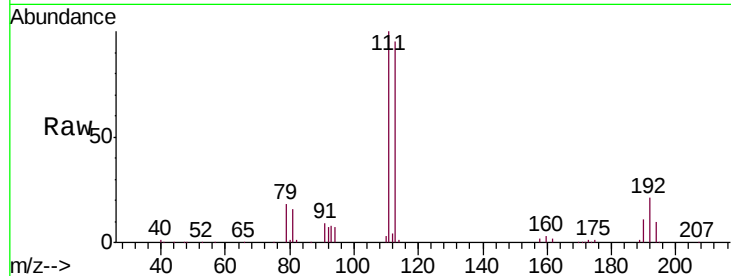
Tgt Ion:113 Resp: 118665

Ion Ratio Lower Upper

113 100

111 103.5 82.8 124.2

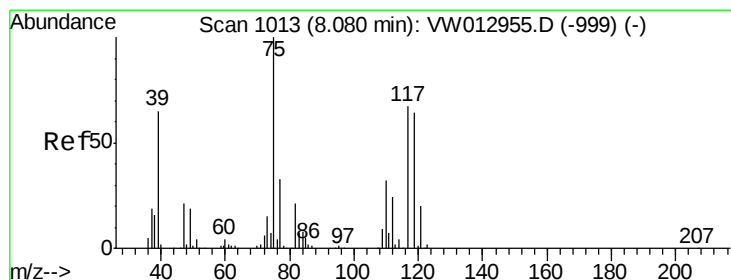
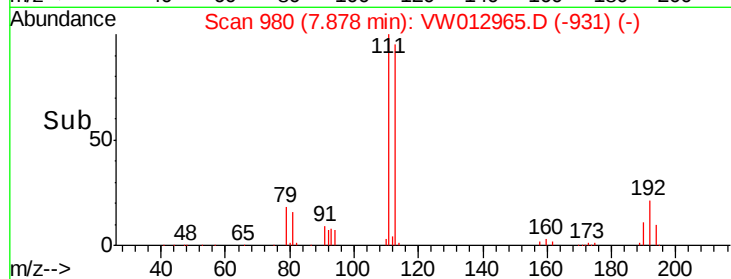
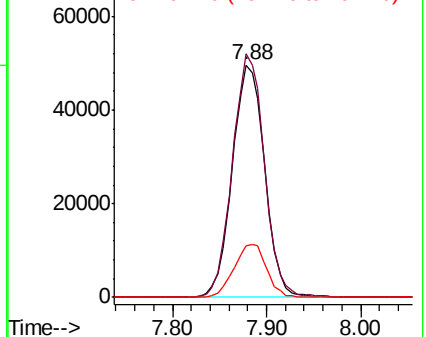
192 22.9 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 6.248 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

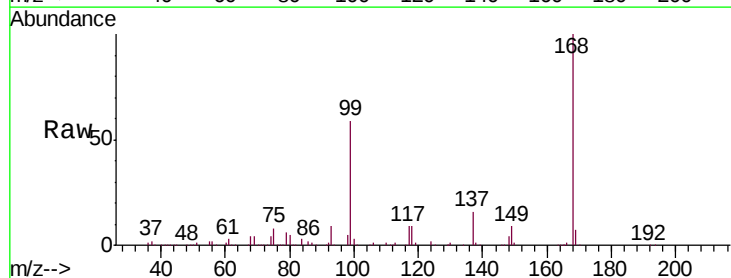
Tgt Ion: 75 Resp: 20342

Ion Ratio Lower Upper

75 100

110 9.6 16.4 49.1#

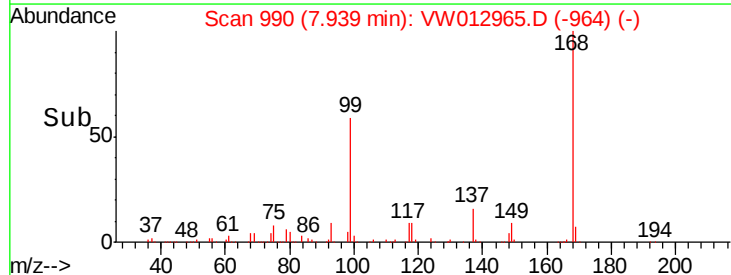
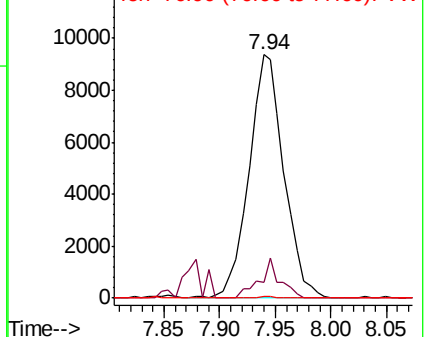
77 0.2 25.1 37.7#

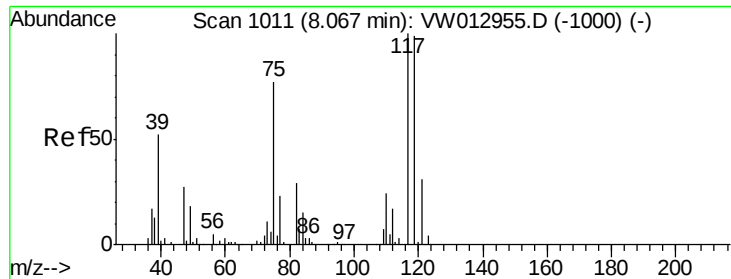


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

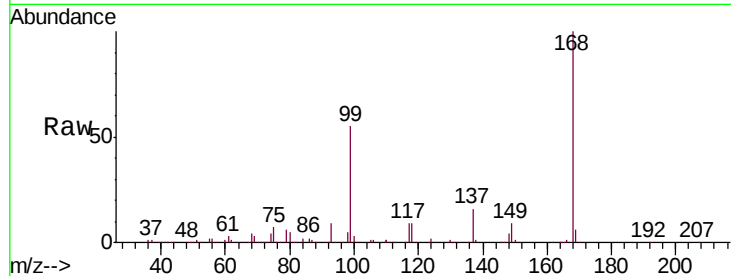




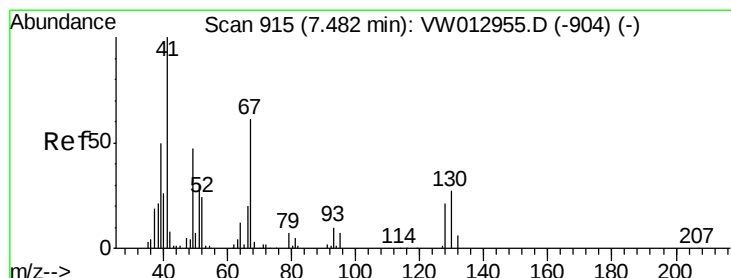
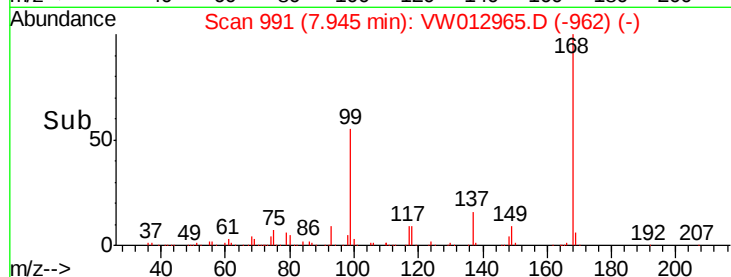
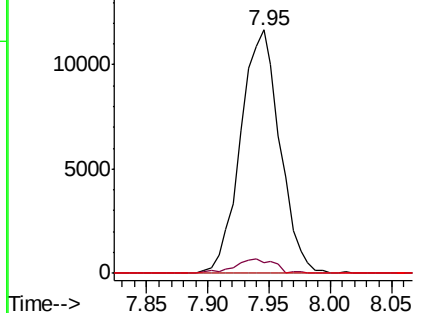
#38
Carbon Tetrachloride
Concen: 7.799 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

Instrument :
MSVOA_W
ClientSampleId :
T4-1-(1.5)-BRUCKNER

Tgt Ion: 117 Resp: 26020
Ion Ratio Lower Upper
117 100
119 4.4 79.4 119.0#
121 0.0 24.6 36.8#

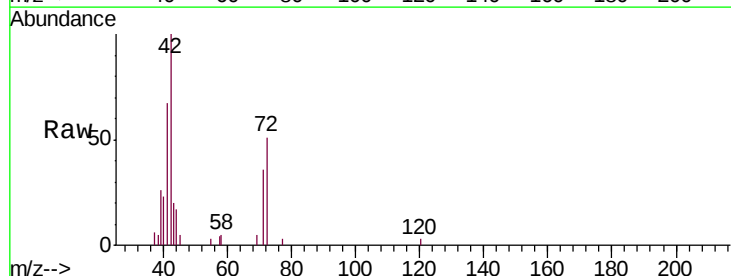


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

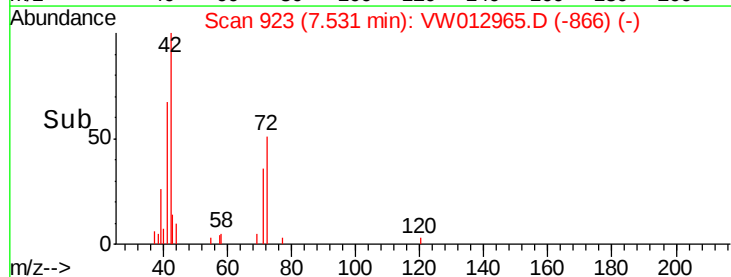
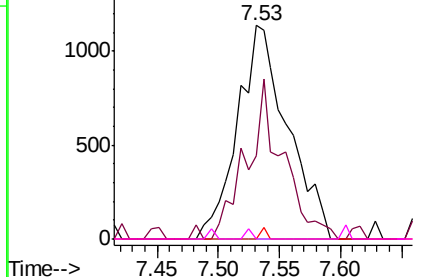


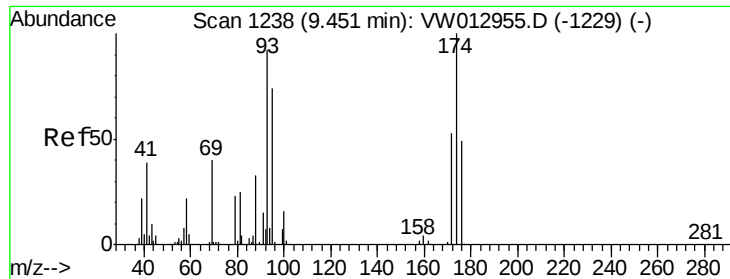
#41
Methacrylonitrile
Concen: 2.844 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.05 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

Tgt Ion: 41 Resp: 3236
Ion Ratio Lower Upper
41 100
39 53.9 48.2 72.4
67 0.7 47.5 71.3#
52 0.6 21.0 31.4#



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

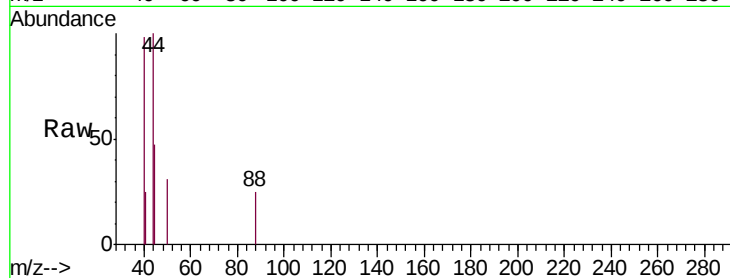




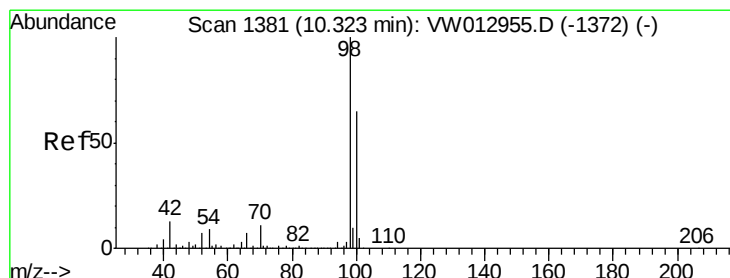
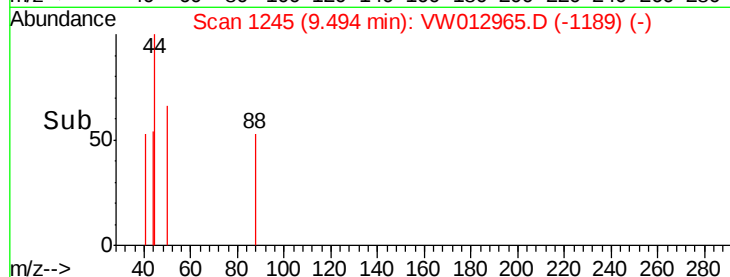
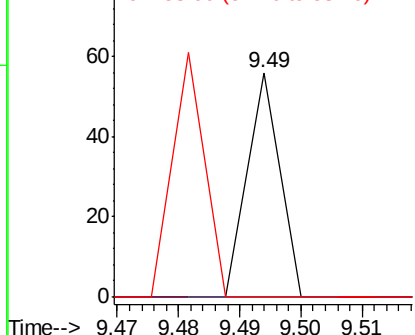
#49
1,4-Dioxane
Concen: 1.032 ug/l
RT: 9.49 min Scan# 1245
Delta R.T. 0.04 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

Instrument :
MSVOA_W
ClientSampleId :
T4-1-(1.5)-BRUCKNER

Tgt Ion: 88 Resp: 20
Ion Ratio Lower Upper
88 100
43 0.0 31.3 46.9#
58 110.0 60.2 90.2#

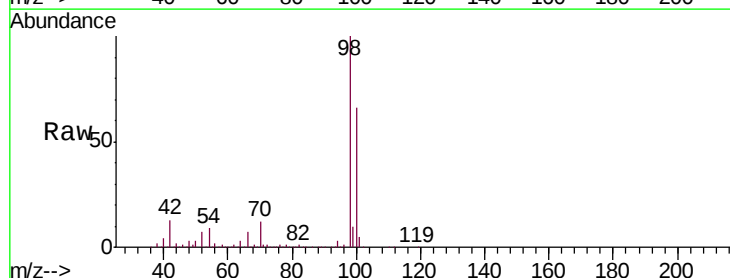


Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW

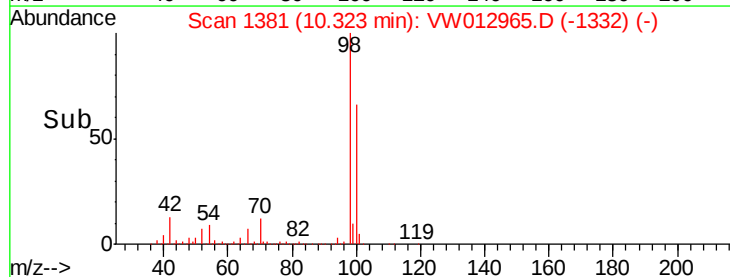
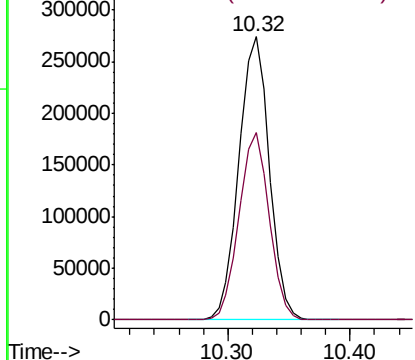


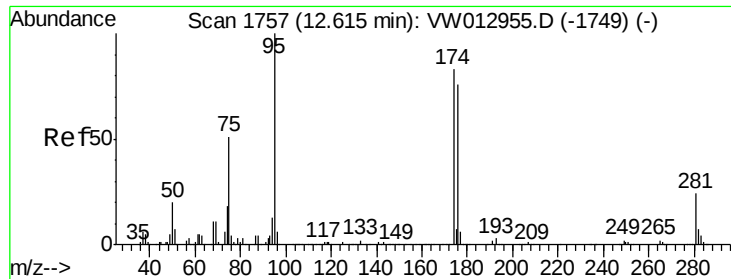
#50
Toluene-d8
Concen: 54.683 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012965.D
Acq: 13 Sep 2019 20:59

Tgt Ion: 98 Resp: 473052
Ion Ratio Lower Upper
98 100
100 65.6 52.1 78.1



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





#62

4-Bromofluorobenzene

Concen: 45.391 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

T4-1-(1.5)-BRUCKNER

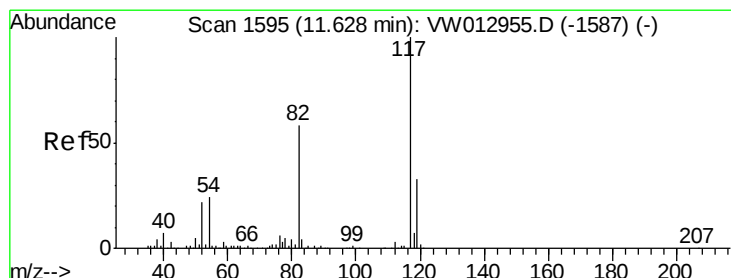
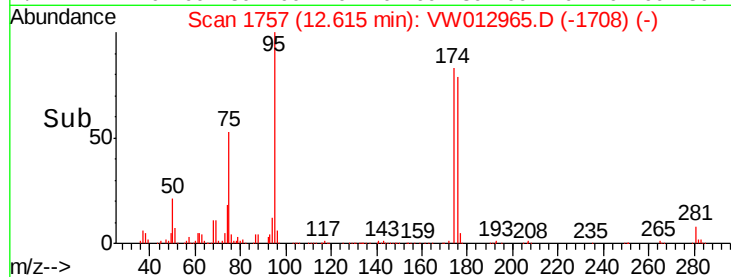
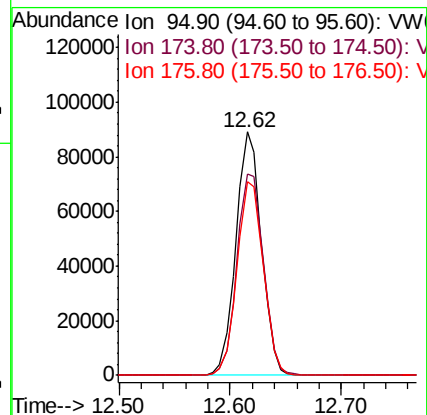
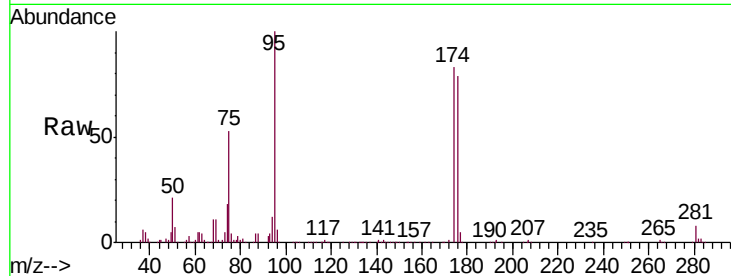
Tgt Ion: 95 Resp: 141197

Ion Ratio Lower Upper

95 100

174 86.3 0.0 170.4

176 82.1 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: VW012965.D

Acq: 13 Sep 2019 20:59

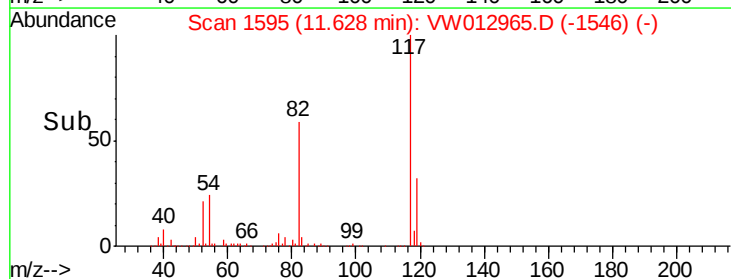
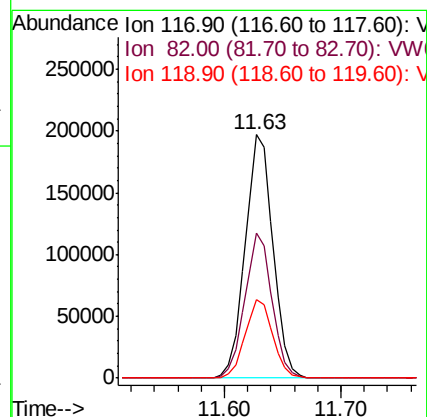
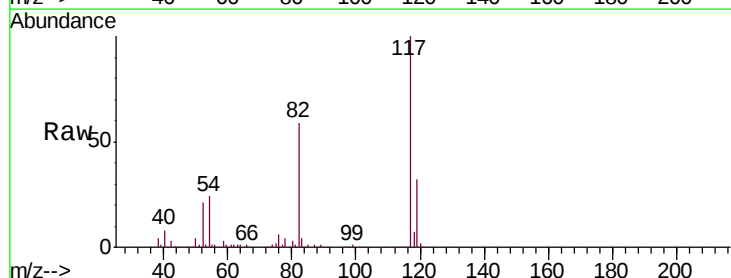
Tgt Ion: 117 Resp: 327785

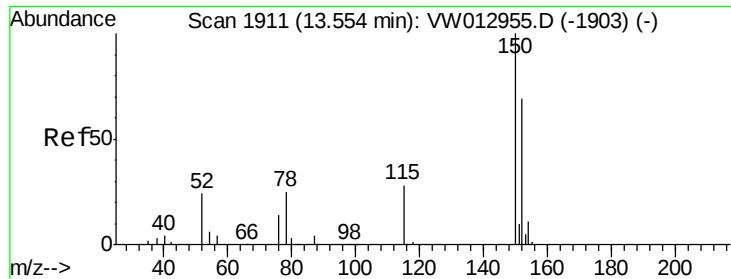
Ion Ratio Lower Upper

117 100

82 59.4 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: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

T4-1-(1.5)-BRUCKNER

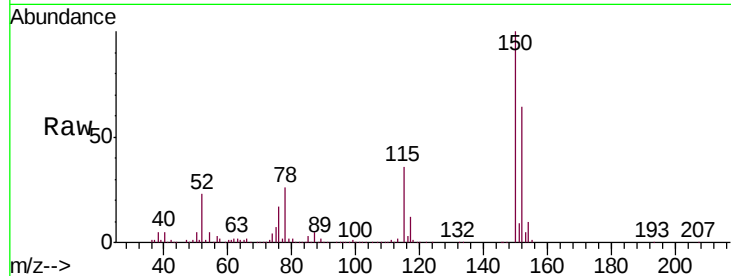
Tgt Ion:152 Resp: 131434

Ion Ratio Lower Upper

152 100

115 57.4 28.8 86.4

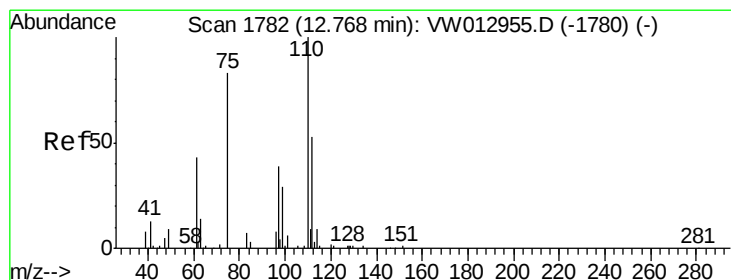
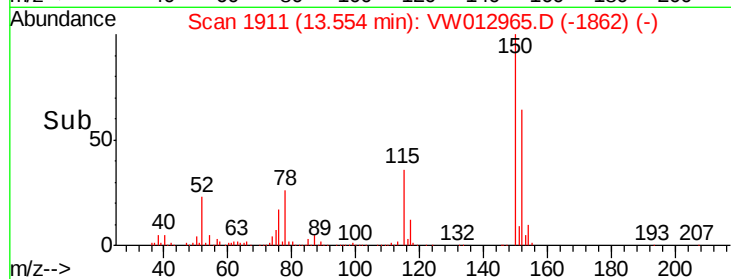
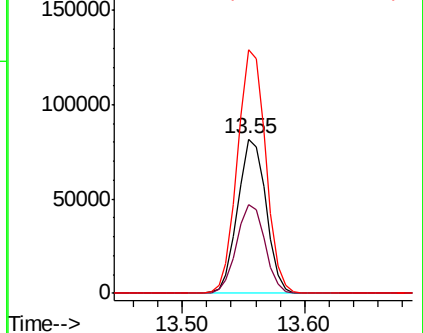
150 157.2 0.0 340.2



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: 65.326 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012965.D

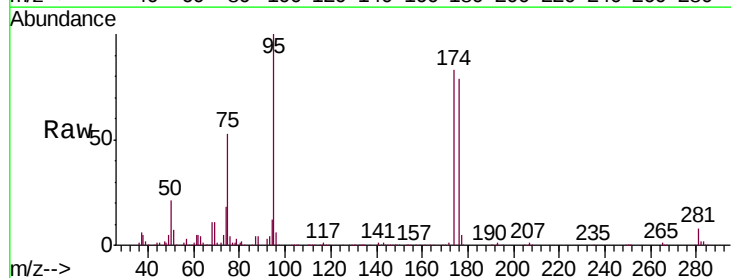
Acq: 13 Sep 2019 20:59

Tgt Ion: 75 Resp: 75207

Ion Ratio Lower Upper

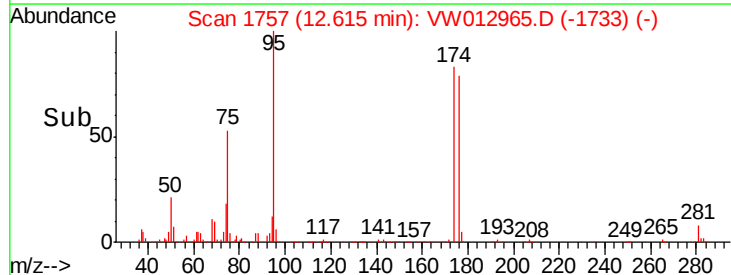
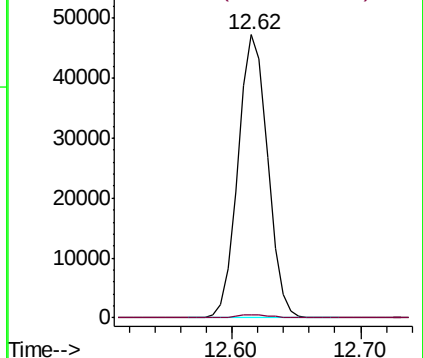
75 100

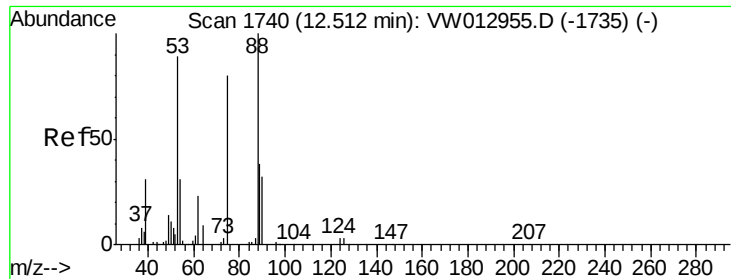
77 1.2 0.0 0.0#



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: 148.191 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012965.D

Acq: 13 Sep 2019 20:59

Instrument :

MSVOA_W

ClientSampleId :

T4-1-(1.5)-BRUCKNER

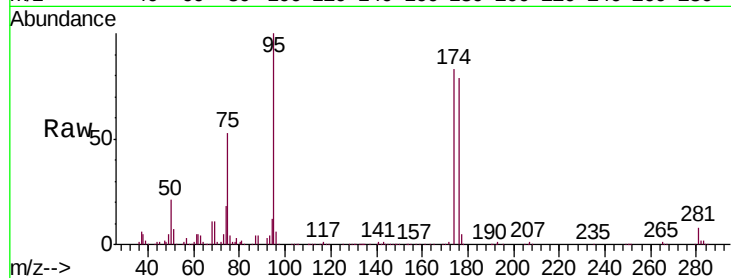
Tgt Ion: 75 Resp: 75207

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

