

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090119\
 Data File : VW012458.D
 Acq On : 01 Sep 2019 19:31
 Operator : SY/VA
 Sample : K4516-15
 Misc : 5.41G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(0)

Quant Time: Sep 02 07:21:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	4204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	6967	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	5417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	802	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	4903	98.11	ug/l	0.00
Spiked Amount			Recovery	=	196.22%	
35) Dibromofluoromethane	7.88	113	3237	77.84	ug/l	0.00
Spiked Amount			Recovery	=	155.68%	
50) Toluene-d8	10.33	98	8609	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
62) 4-Bromofluorobenzene	12.62	95	1512	25.44	ug/l	0.00
Spiked Amount			Recovery	=	50.88%	

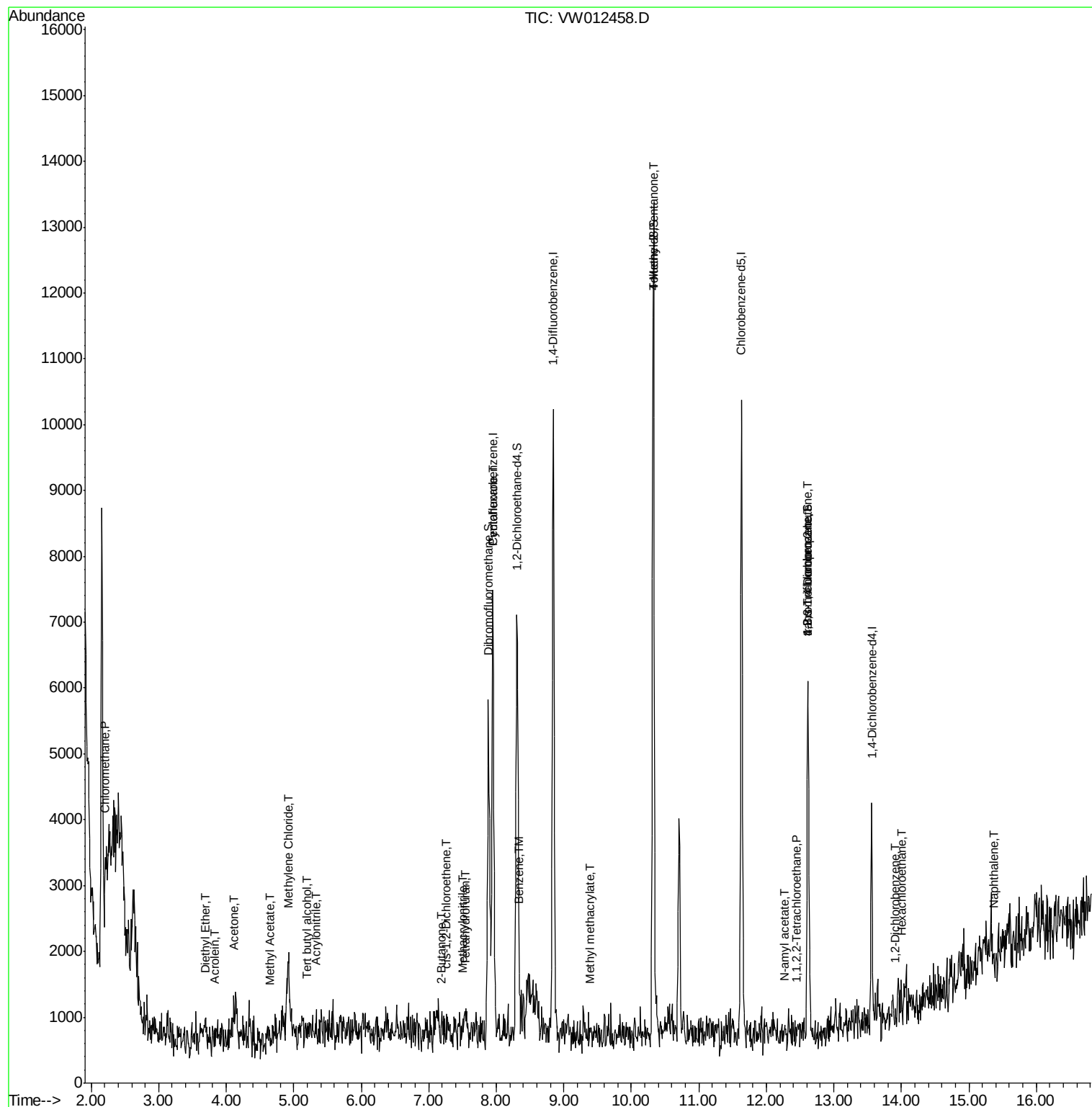
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	250	6.234	ug/l #	43
8) Diethyl Ether	3.69	74	71	3.035	ug/l	90
11) Tert butyl alcohol	5.20	59	25	8.313	ug/l #	71
13) Acrolein	3.84	56	20	7.065	ug/l #	15
15) Acrylonitrile	5.34	53	44	3.794	ug/l #	17
16) Acetone	4.12	43	439	34.365	ug/l #	81
18) Methyl Acetate	4.64	43	70	2.212	ug/l #	57
20) Methylene Chloride	4.92	84	768	15.903	ug/l #	71
25) 2-Butanone	7.18	43	39	2.247	ug/l #	56
27) cis-1,2-Dichloroethene	7.26	96	56	1.159	ug/l #	1
29) Tetrahydrofuran	7.54	42	66	6.337	ug/l #	42
31) Cyclohexane	7.95	56	199	2.211	ug/l #	4
40) Benzene	8.34	78	252	1.282	ug/l #	69
41) Methacrylonitrile	7.51	41	54	2.329	ug/l #	53
48) Methyl methacrylate	9.38	41	113	3.249	ug/l #	49
51) 4-Methyl-2-Pentanone	10.32	43	151	4.062	ug/l	99
74) N-amyl acetate	12.28	43	20	1.102	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.45	83	24	2.178	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	737	94.355	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	737	206.877	ug/l #	7
90) Hexachloroethane	14.01	117	27	2.828	ug/l #	11
91) 1,2-Dichlorobenzene	13.91	146	50	2.241	ug/l #	24
95) Naphthalene	15.36	128	22	4.985	ug/l #	69

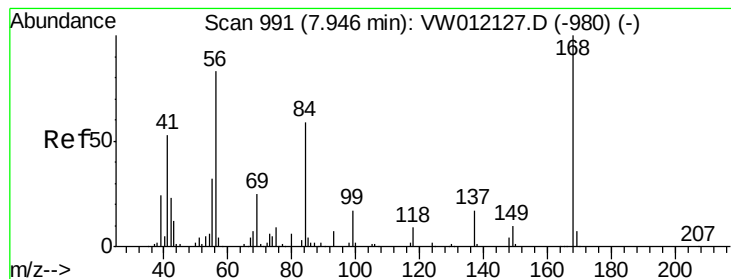
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 02 07:21:07 2019
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Quant Title : SW846 8260
QLast Update : Mon Aug 26 07:18:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampleId :

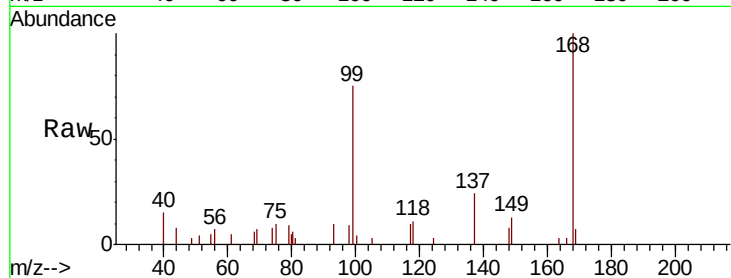
T2-S-B4-(0)

Tgt Ion:168 Resp: 4204

Ion Ratio Lower Upper

168 100

99 75.5 49.2 73.8#



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

2000

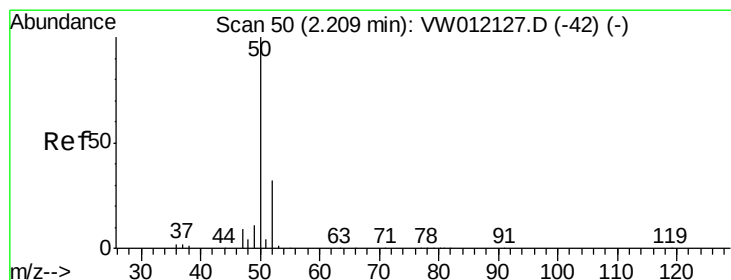
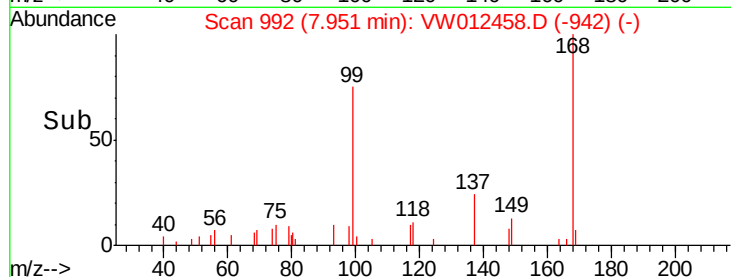
1500

1000

500

0

Time--> 7.85 7.90 7.95 8.00 8.05



#3

Chloromethane

Concen: 6.234 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW012458.D

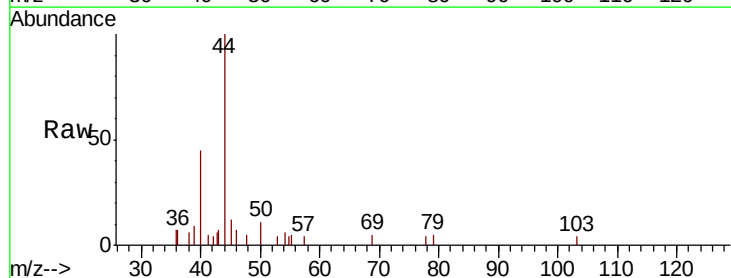
Acq: 01 Sep 2019 19:31

Tgt Ion: 50 Resp: 250

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.21

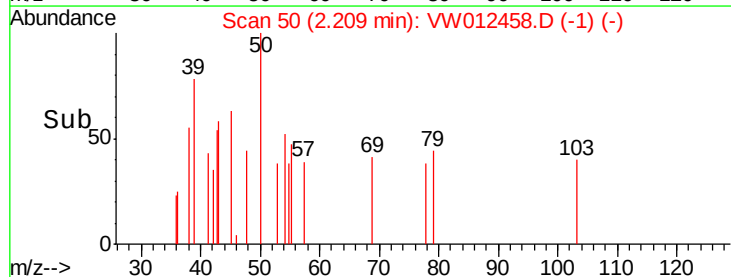
150

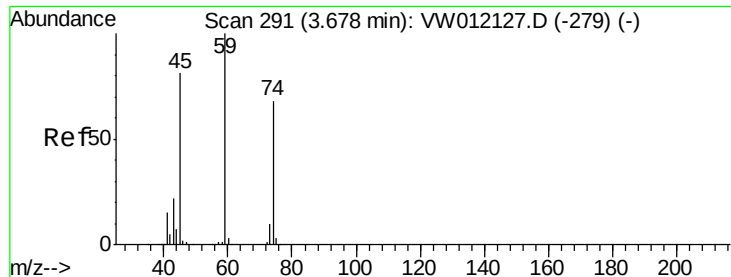
100

50

0

Time--> 2.15 2.20 2.25





#8

Diethyl Ether

Concen: 3.035 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampleId :

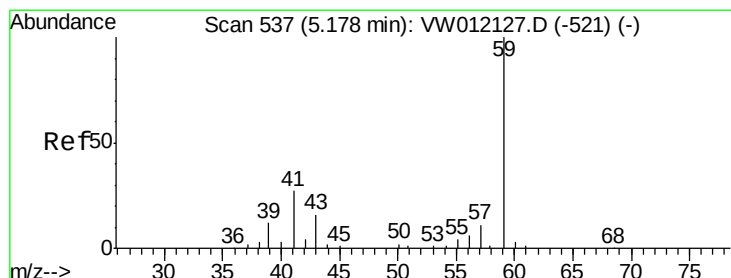
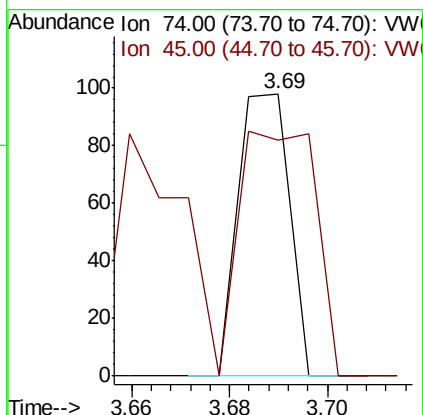
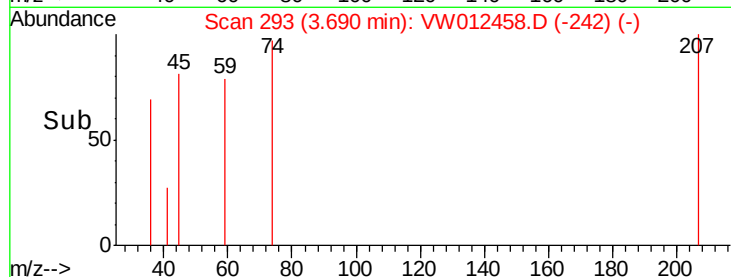
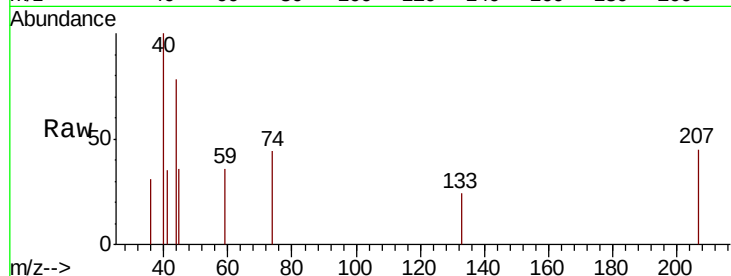
T2-S-B4-(0)

Tgt Ion: 74 Resp: 71

Ion Ratio Lower Upper

74 100

45 129.6 59.2 177.6



#11

Tert butyl alcohol

Concen: 8.313 ug/l

RT: 5.20 min Scan# 540

Delta R.T. 0.02 min

Lab File: VW012458.D

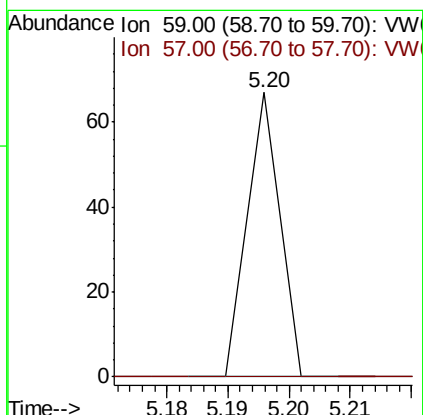
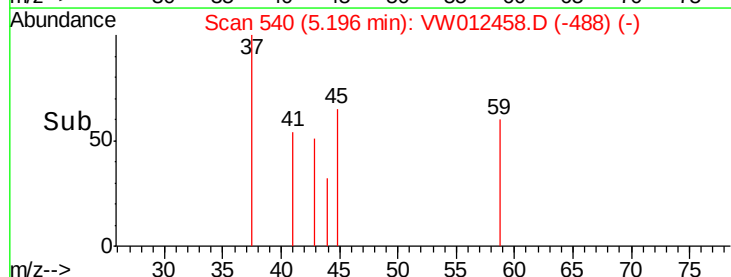
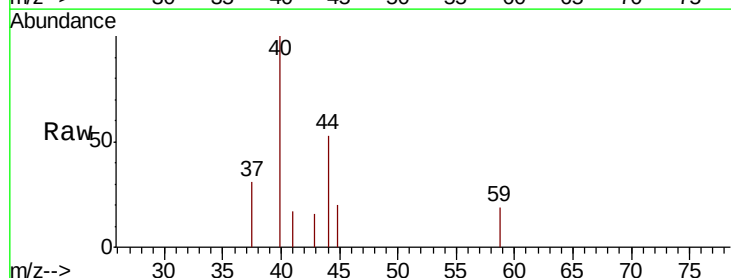
Acq: 01 Sep 2019 19:31

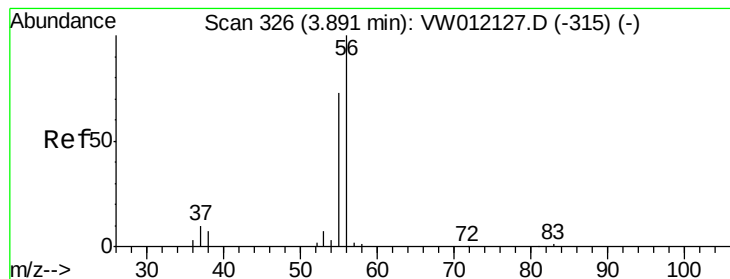
Tgt Ion: 59 Resp: 25

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#





#13

Acrolein

Concen: 7.065 ug/l

RT: 3.84 min Scan# 317

Delta R.T. -0.06 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampled :

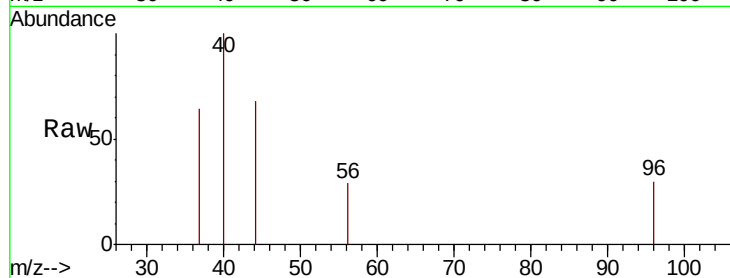
T2-S-B4-(0)

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

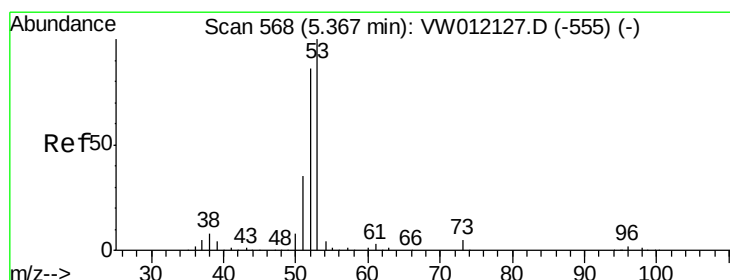
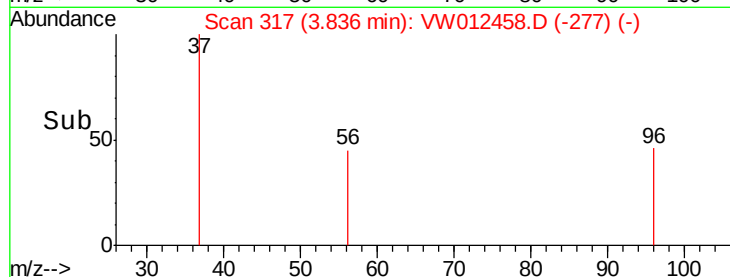
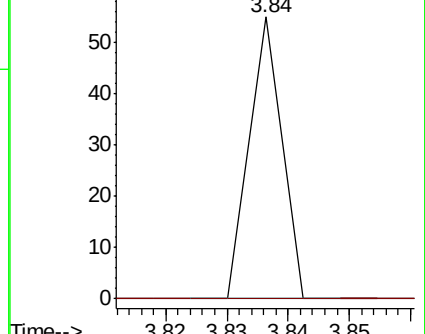
56 100

55 0.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#15

Acrylonitrile

Concen: 3.794 ug/l

RT: 5.34 min Scan# 563

Delta R.T. -0.03 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

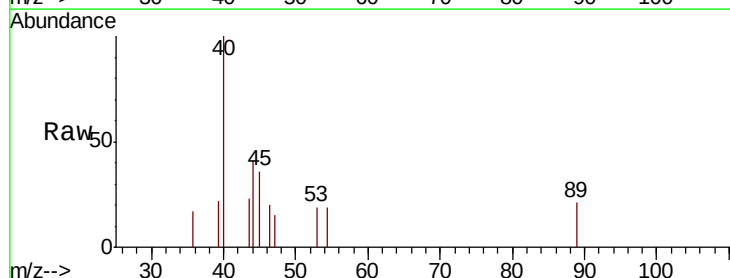
Tgt Ion: 53 Resp: 44

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

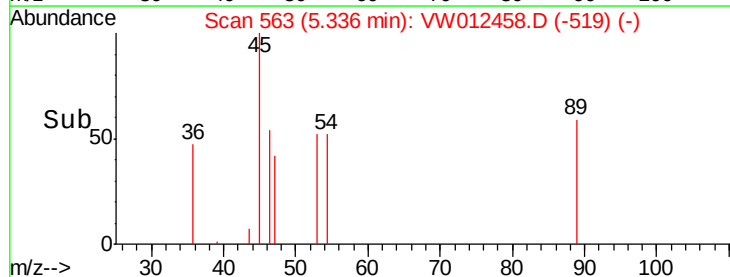
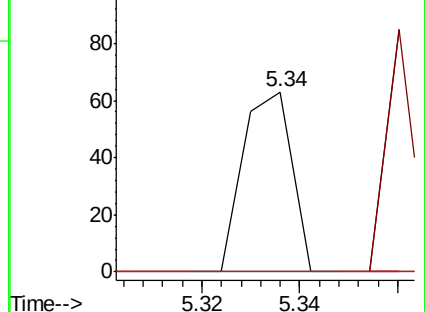
51 0.0 30.1 45.1#

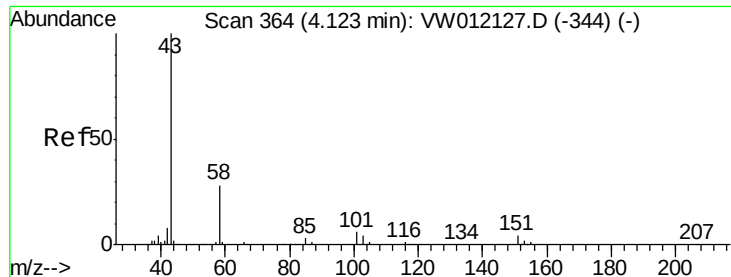


Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW





#16

Acetone

Concen: 34.365 ug/l

RT: 4.12 min Scan# 363

Delta R.T. -0.01 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampleId :

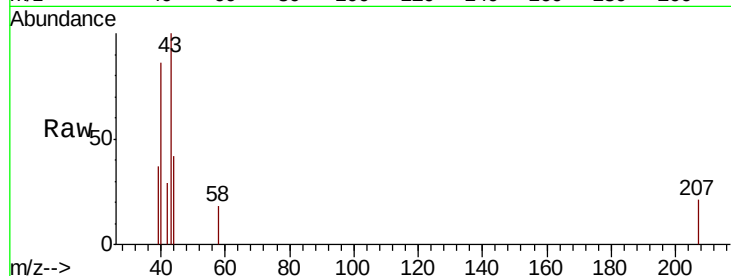
T2-S-B4-(0)

Tgt Ion: 43 Resp: 439

Ion Ratio Lower Upper

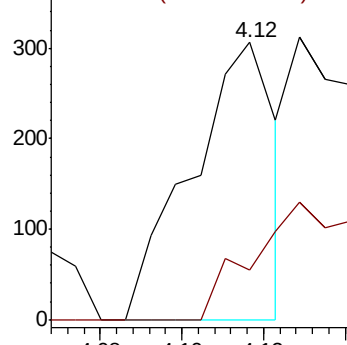
43 100

58 18.0 22.4 33.6#

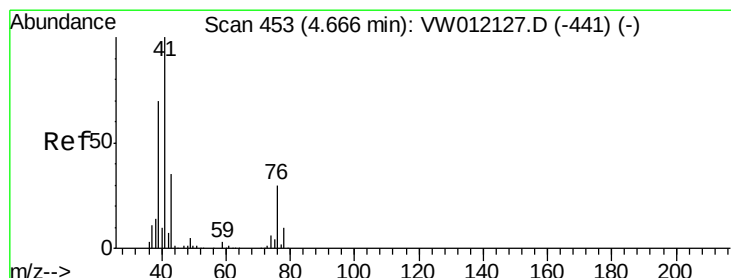
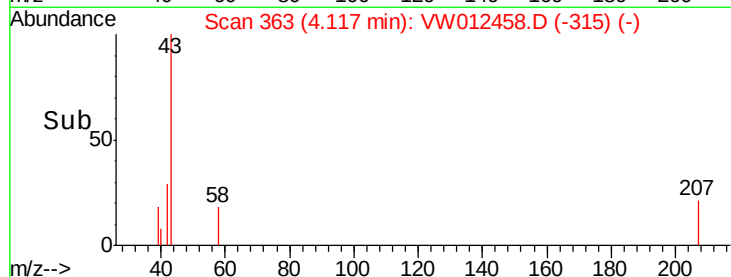


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



Time-->



#18

Methyl Acetate

Concen: 2.212 ug/l

RT: 4.64 min Scan# 449

Delta R.T. -0.02 min

Lab File: VW012458.D

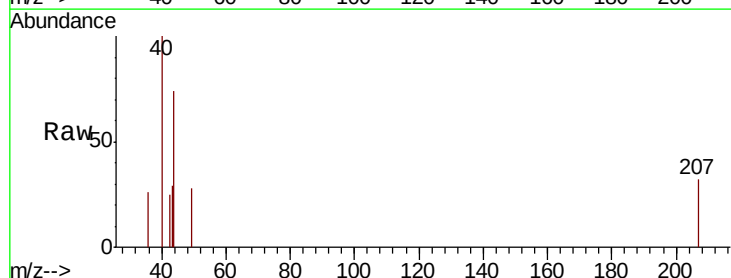
Acq: 01 Sep 2019 19:31

Tgt Ion: 43 Resp: 70

Ion Ratio Lower Upper

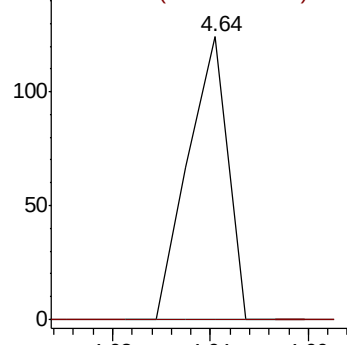
43 100

74 0.0 15.7 23.5#

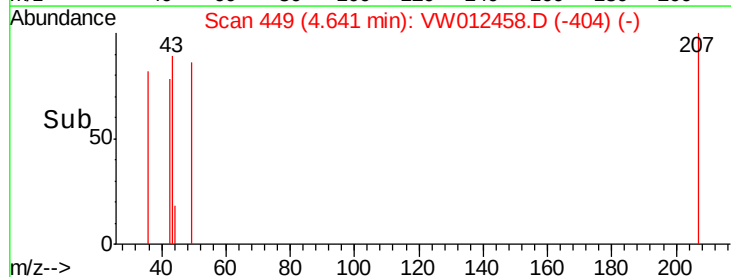


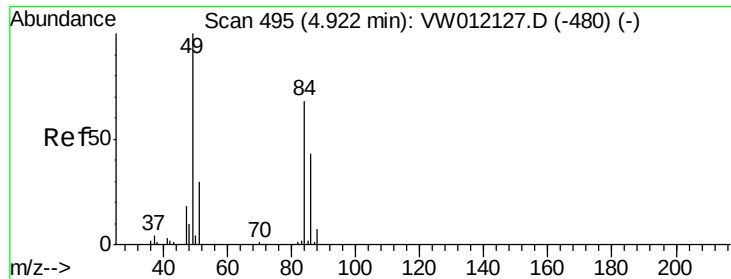
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW



Time-->

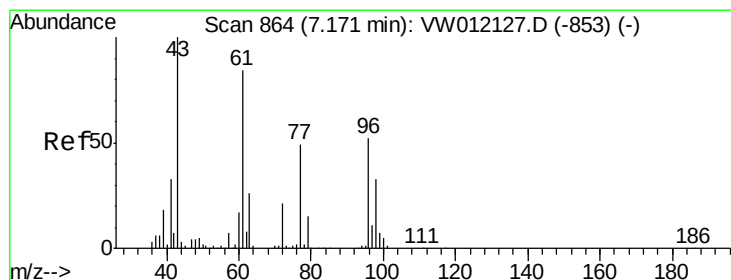
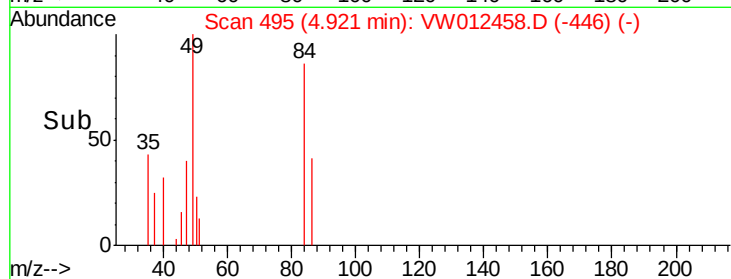
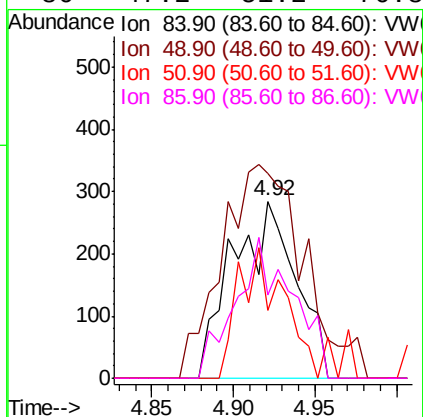
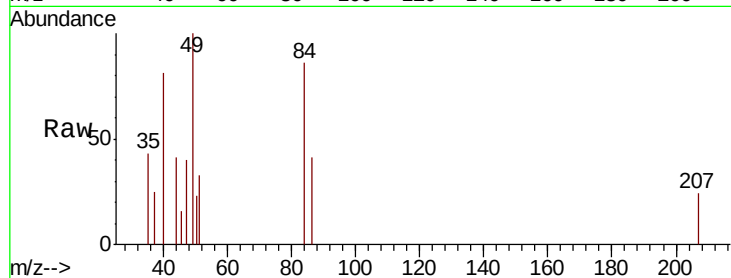




#20
Methylene Chloride
Concen: 15.903 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

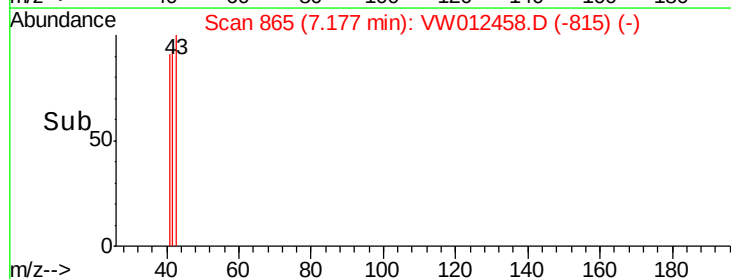
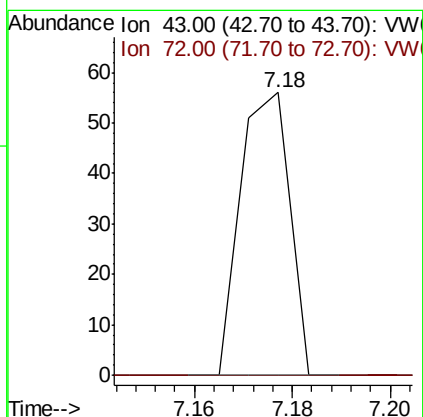
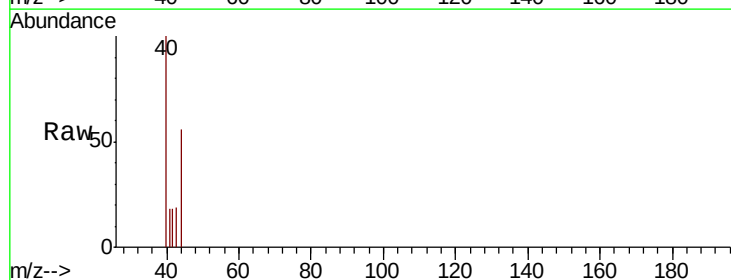
Instrument :
MSVOA_W
ClientSampled :
T2-S-B4-(0)

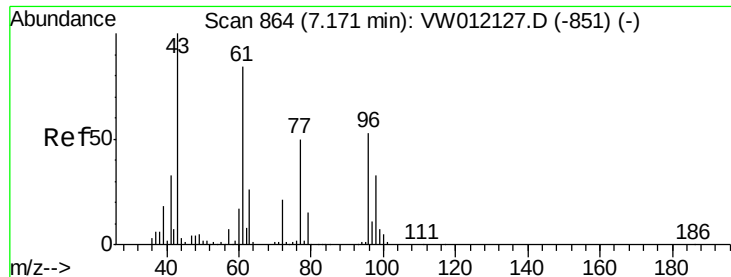
Tgt Ion: 84 Resp: 768
Ion Ratio Lower Upper
84 100
49 98.2 117.8 176.8#
51 38.7 35.6 53.4
86 47.2 51.2 76.8#



#25
2-Butanone
Concen: 2.247 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

Tgt Ion: 43 Resp: 39
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#



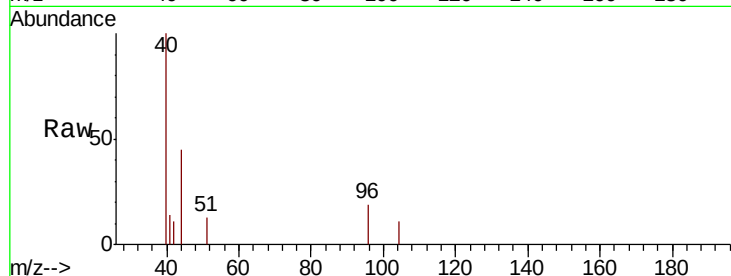


#27

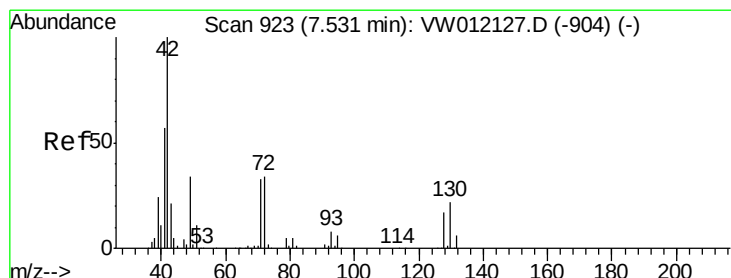
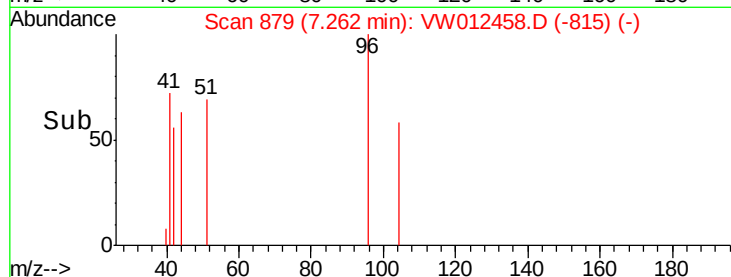
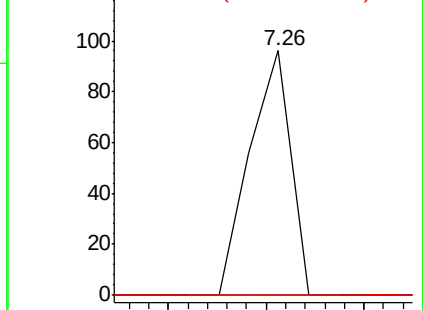
cis-1,2-Dichloroethene
 Concen: 1.159 ug/l
 RT: 7.26 min Scan# 879
 Delta R.T. 0.09 min
 Lab File: VW012458.D
 Acq: 01 Sep 2019 19:31

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(0)

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	326.6
98	0.0	0.0	127.4



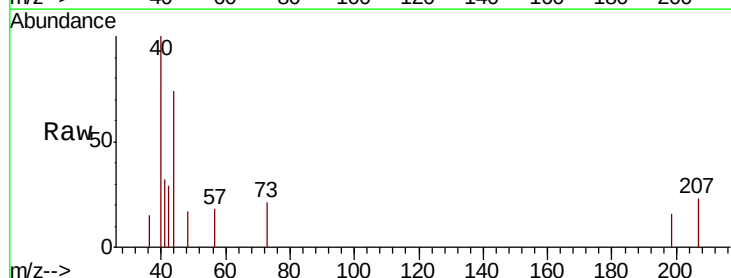
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



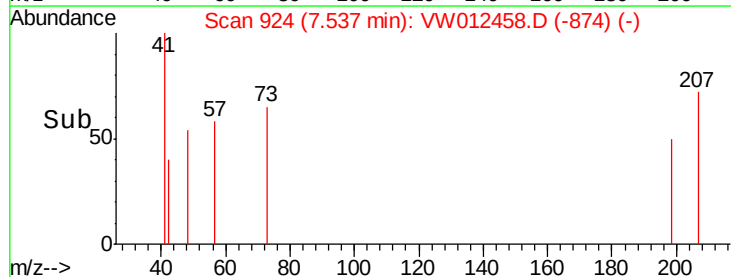
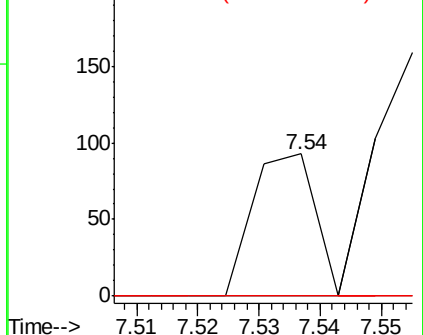
#29

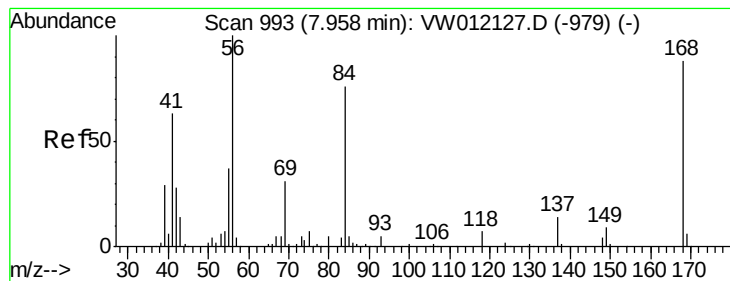
Tetrahydrofuran
 Concen: 6.337 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012458.D
 Acq: 01 Sep 2019 19:31

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.3	40.9#
71	0.0	25.5	38.3#



Abundance Ion 42.00 (41.70 to 42.70): VW
 Ion 72.00 (71.70 to 72.70): VW
 Ion 71.00 (70.70 to 71.70): VW

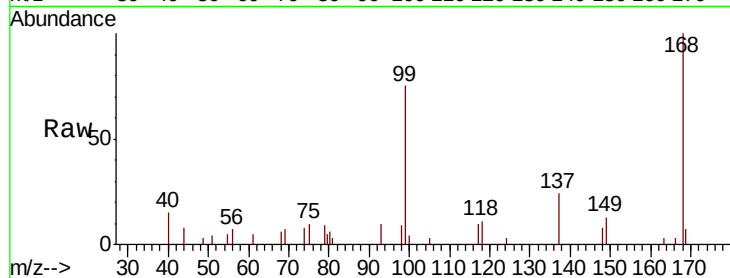




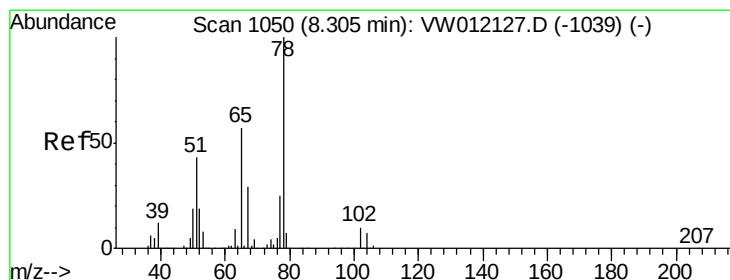
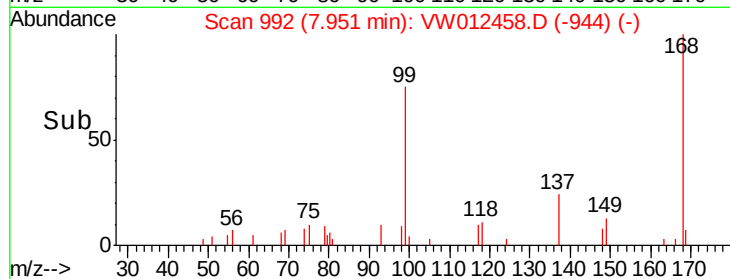
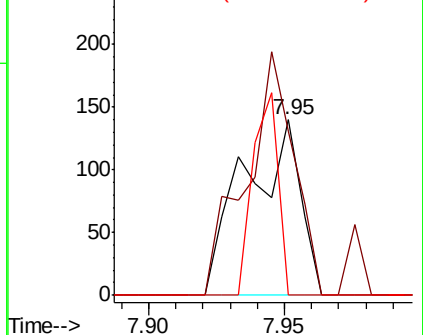
#31
Cyclohexane
Concen: 2.211 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(0)

Tgt Ion: 56 Resp: 199
Ion Ratio Lower Upper
56 100
69 93.6 24.9 37.3#
84 0.0 60.6 90.8#

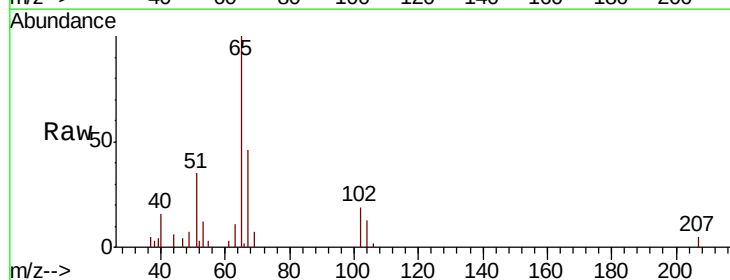


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

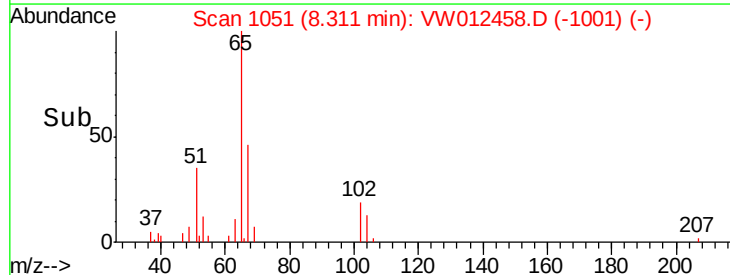
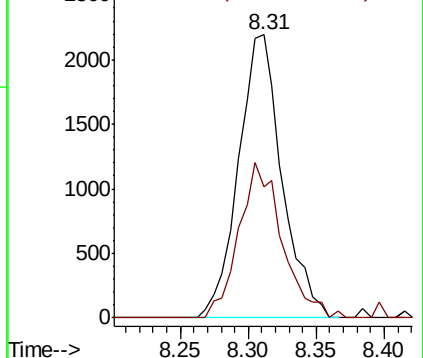


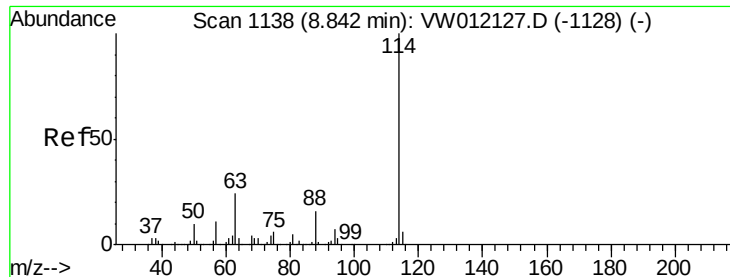
#33
1,2-Dichloroethane-d4
Concen: 98.108 ug/l
RT: 8.31 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

Tgt Ion: 65 Resp: 4903
Ion Ratio Lower Upper
65 100
67 54.7 0.0 102.6



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

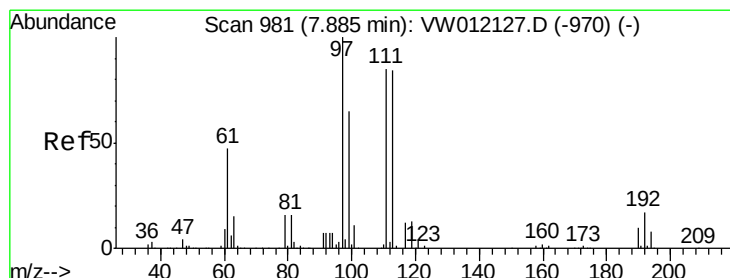
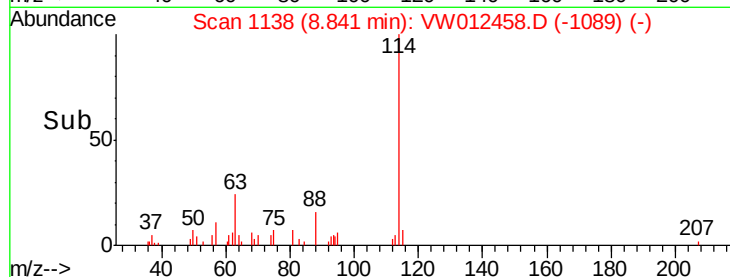
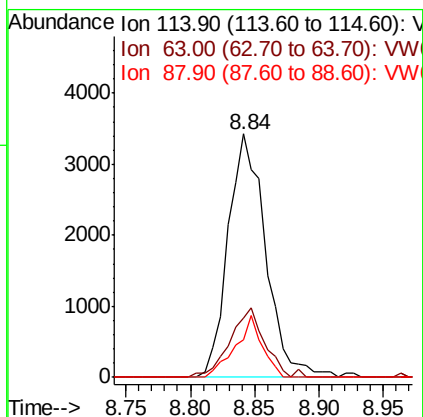
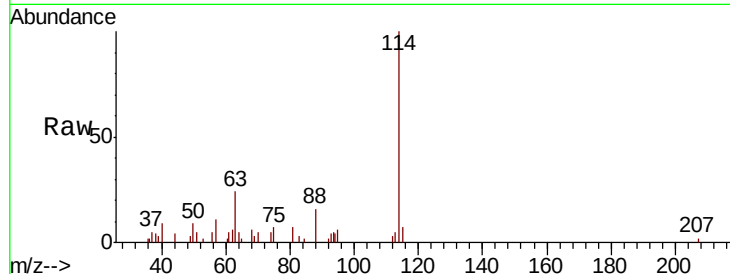




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012458.D
 Acq: 01 Sep 2019 19:31

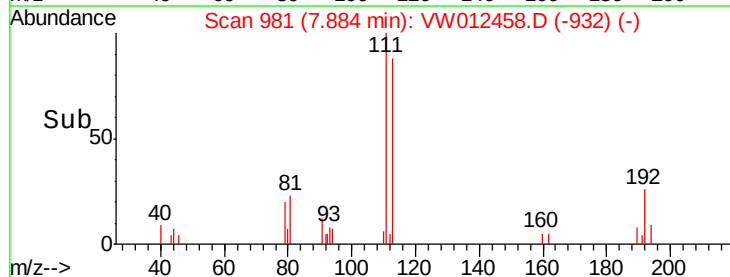
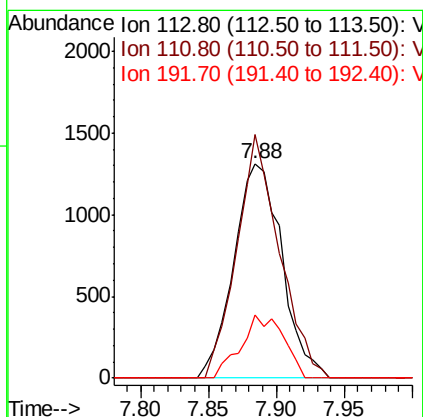
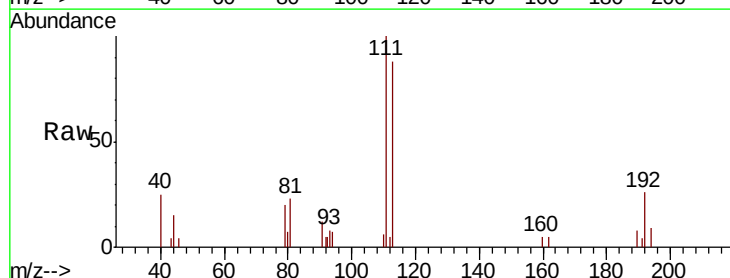
Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(0)

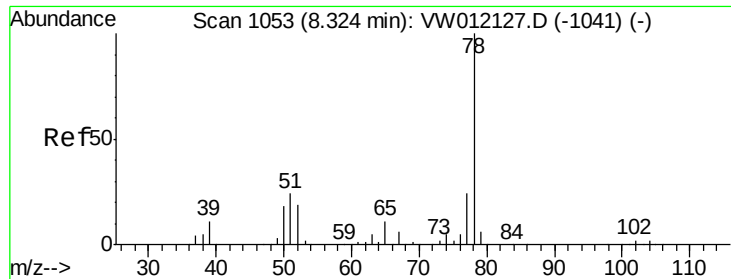
Tgt Ion:114 Resp: 6967
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 48.6
 88 15.5 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 77.838 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012458.D
 Acq: 01 Sep 2019 19:31

Tgt Ion:113 Resp: 3237
 Ion Ratio Lower Upper
 113 100
 111 100.7 82.7 124.1
 192 26.0 16.2 24.2#





#40

Benzene

Concen: 1.282 ug/l

RT: 8.34 min Scan# 1056

Delta R.T. 0.02 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampleId :

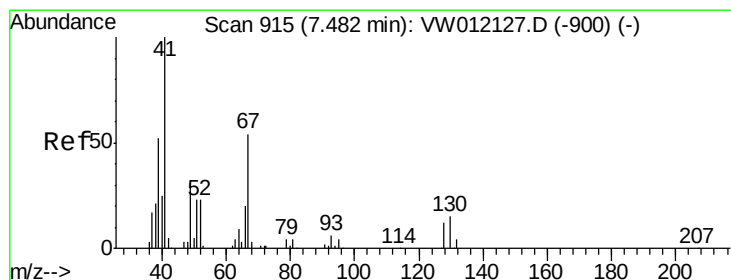
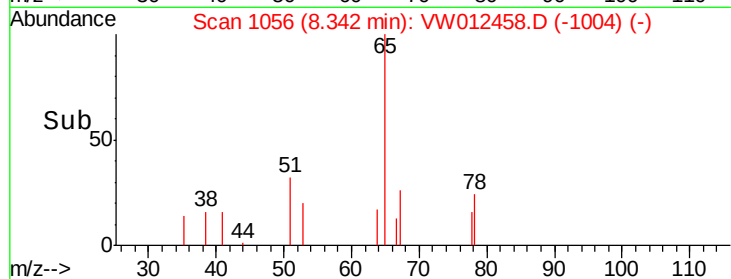
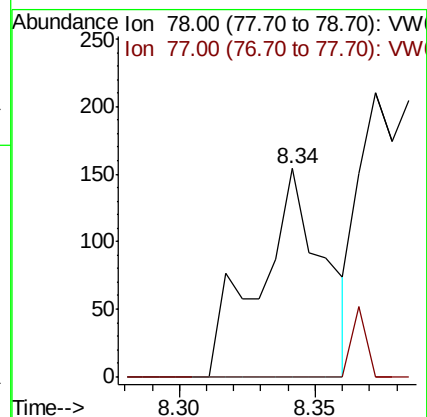
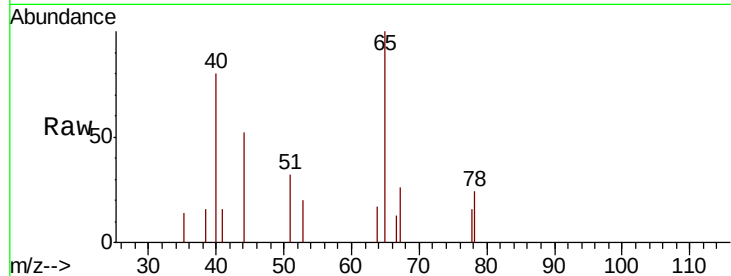
T2-S-B4-(0)

Tgt Ion: 78 Resp: 252

Ion Ratio Lower Upper

78 100

77 39.6 19.5 29.3#



#41

Methacrylonitrile

Concen: 2.329 ug/l

RT: 7.51 min Scan# 919

Delta R.T. 0.02 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Tgt Ion: 41 Resp: 54

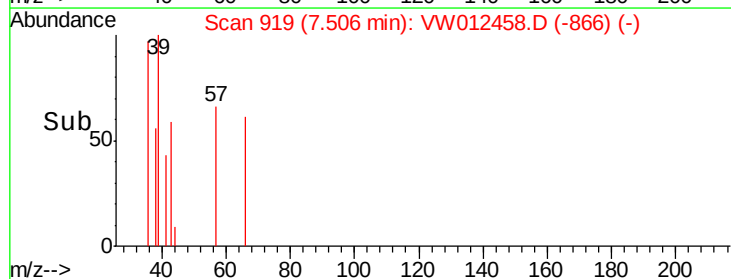
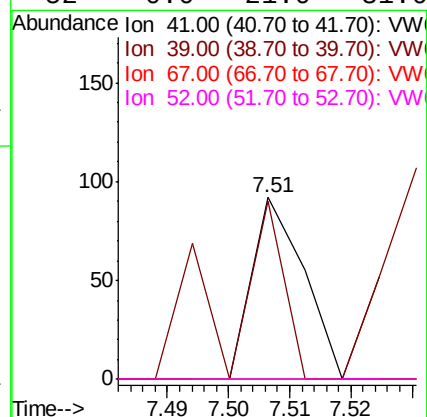
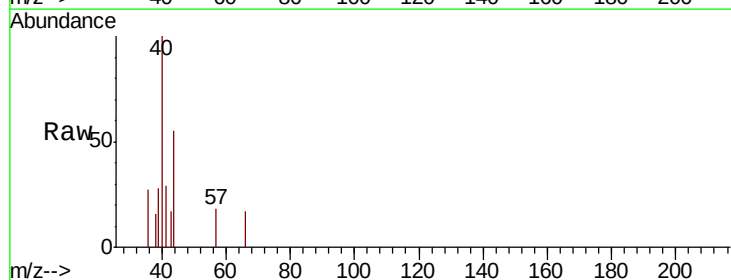
Ion Ratio Lower Upper

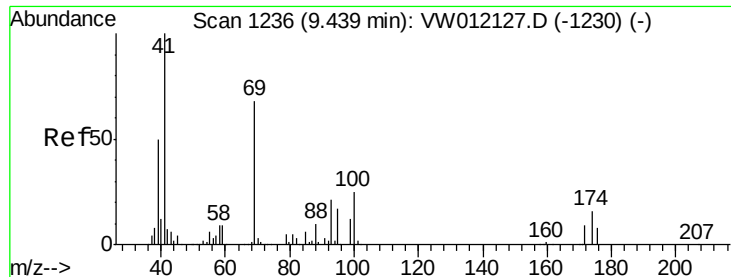
41 100

39 46.3 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

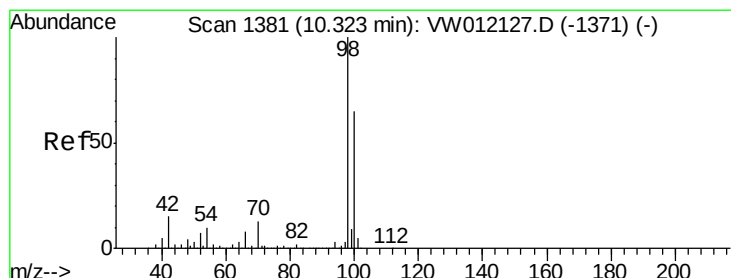
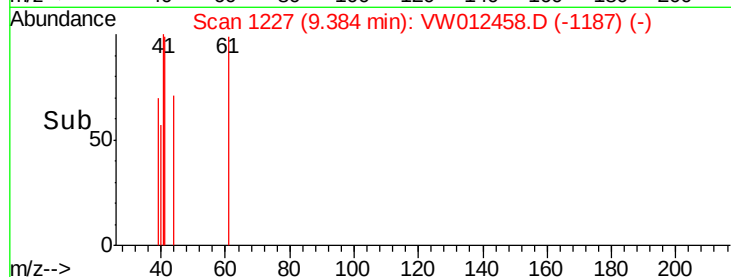
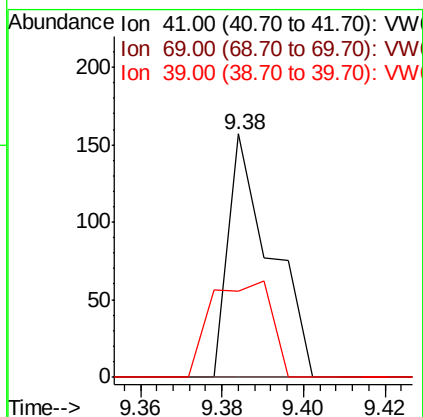
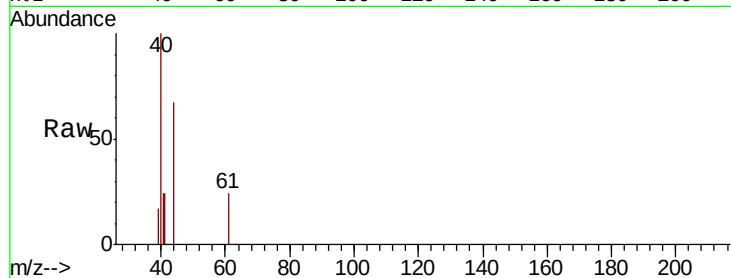




#48
Methyl methacrylate
Concen: 3.249 ug/l
RT: 9.38 min Scan# 1227
Delta R.T. -0.06 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

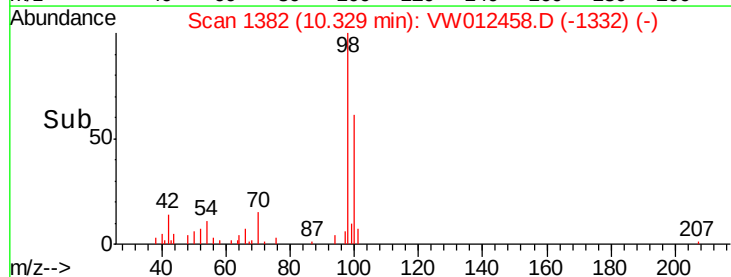
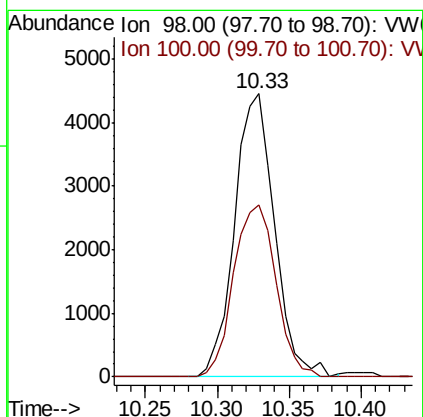
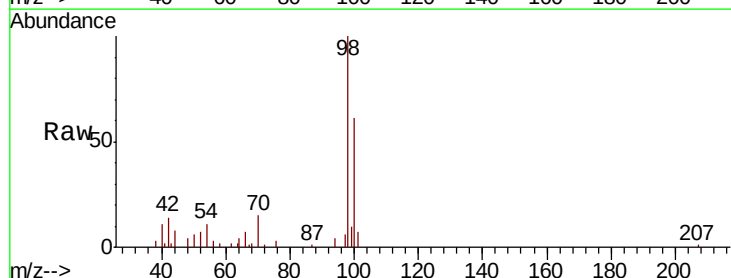
Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(0)

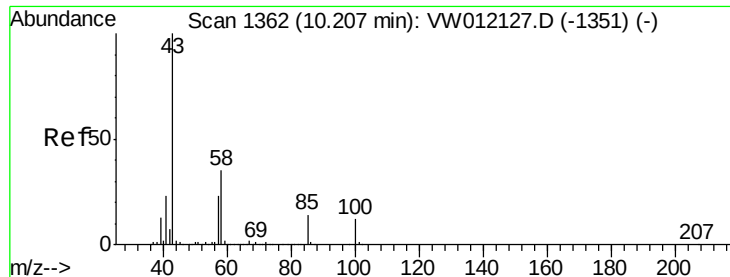
Tgt Ion: 41 Resp: 113
Ion Ratio Lower Upper
41 100
69 0.0 56.7 85.1#
39 55.8 42.0 63.0



#50
Toluene-d8
Concen: 51.056 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. 0.01 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

Tgt Ion: 98 Resp: 8609
Ion Ratio Lower Upper
98 100
100 64.4 52.4 78.6





#51

4-Methyl-2-Pentanone

Concen: 4.062 ug/l

RT: 10.32 min Scan# 1380

Delta R.T. 0.11 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampled :

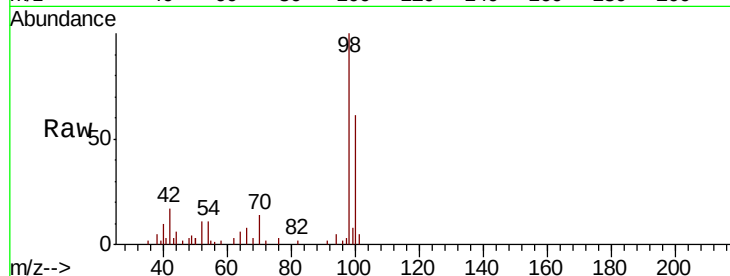
T2-S-B4-(0)

Tgt Ion: 43 Resp: 151

Ion Ratio Lower Upper

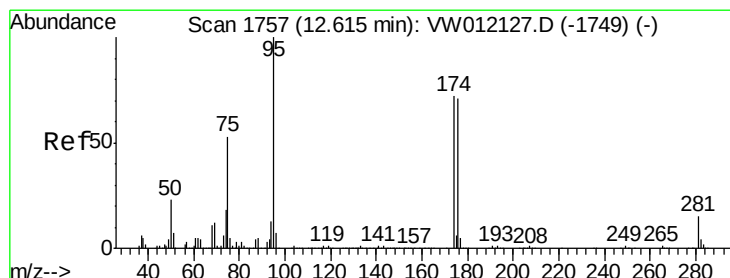
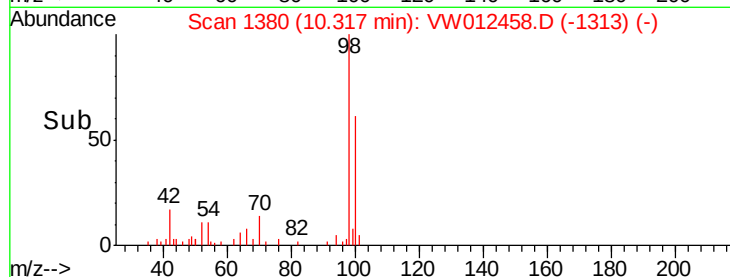
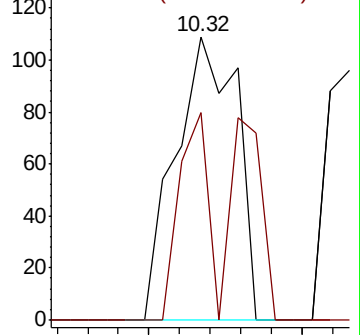
43 100

58 34.4 28.2 42.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 25.438 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

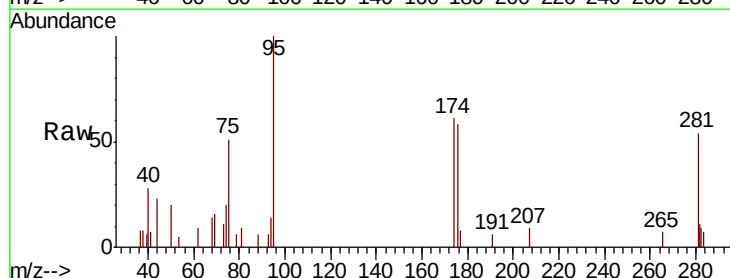
Tgt Ion: 95 Resp: 1512

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.8

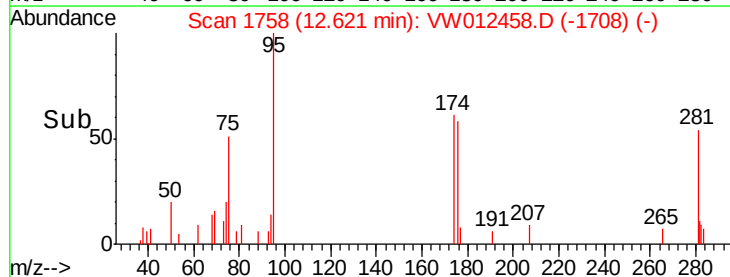
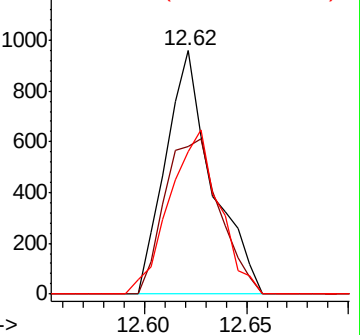
176 72.4 0.0 148.6

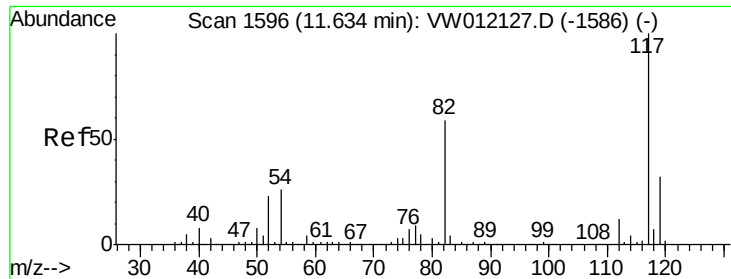


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

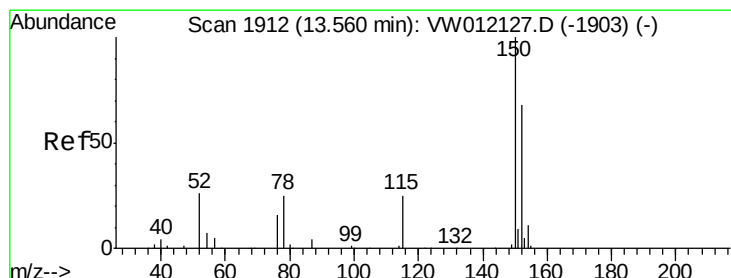
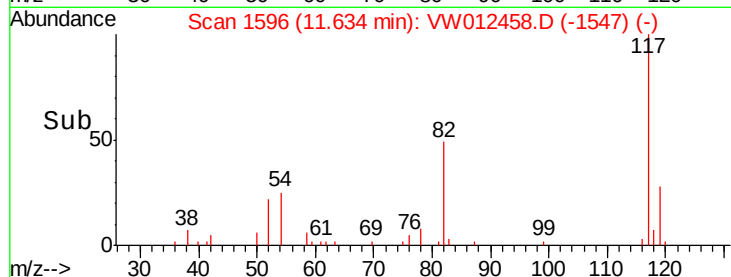
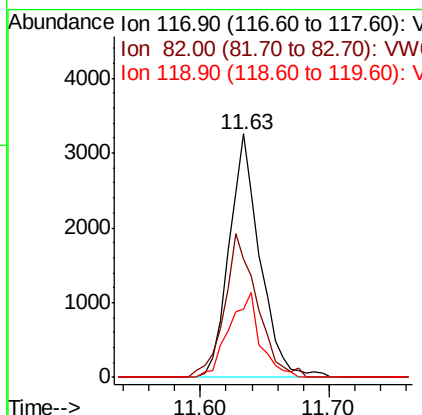
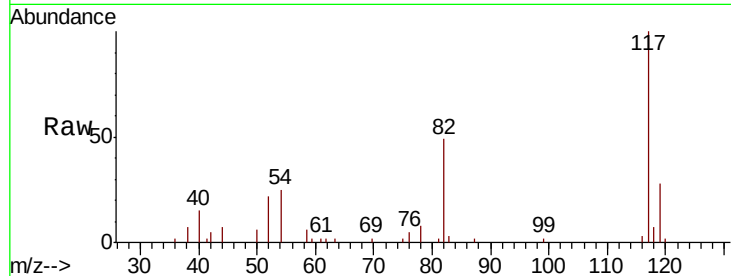




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

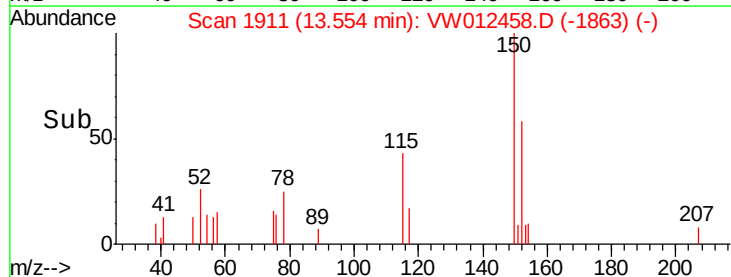
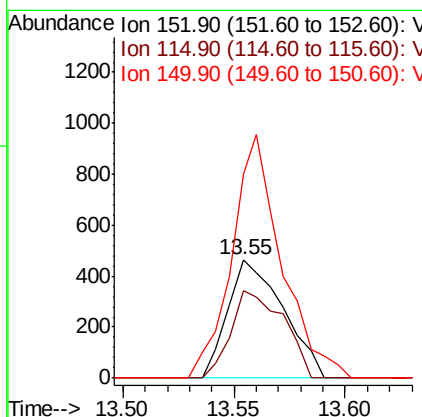
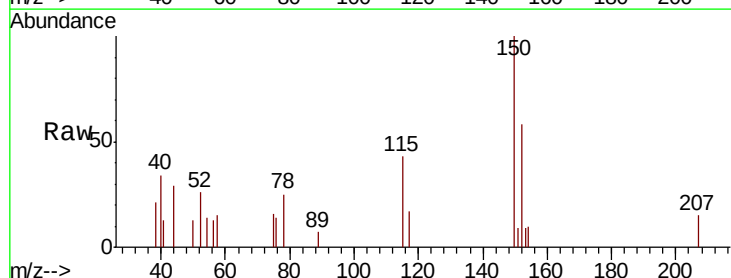
Instrument :
MSVOA_W
ClientSampleId :
T2-S-B4-(0)

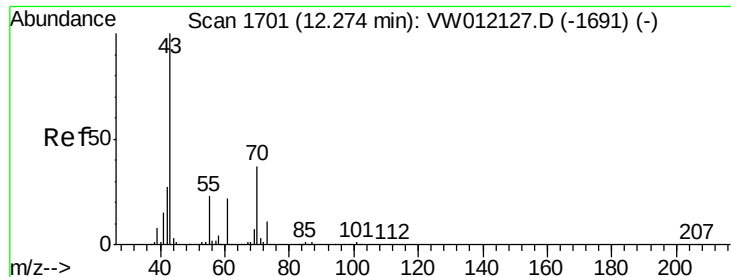
Tgt Ion:117 Resp: 5417
Ion Ratio Lower Upper
117 100
82 48.6 47.4 71.2
119 27.9 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW012458.D
Acq: 01 Sep 2019 19:31

Tgt Ion:152 Resp: 802
Ion Ratio Lower Upper
152 100
115 70.2 30.1 90.3
150 184.0 0.0 345.8





#74

N-amyI acetate

Concen: 1.102 ug/l

RT: 12.28 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampleId :

T2-S-B4-(0)

Tgt Ion: 43 Resp: 20

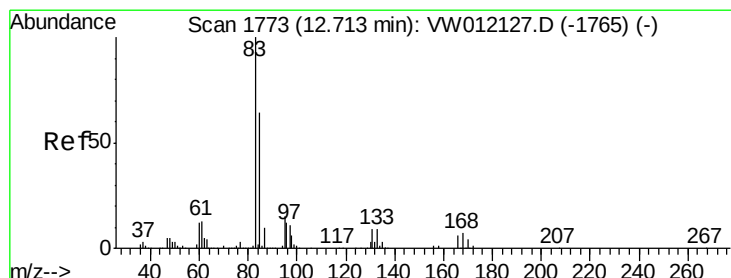
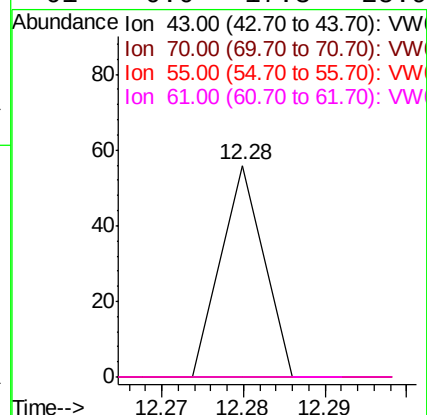
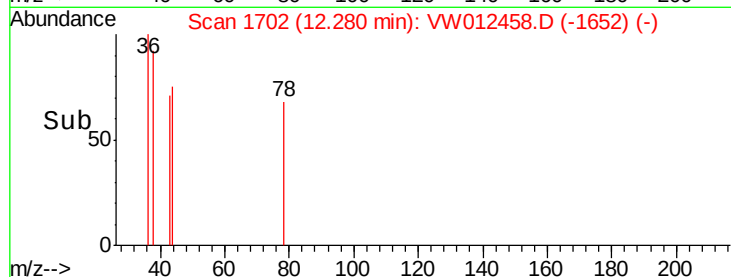
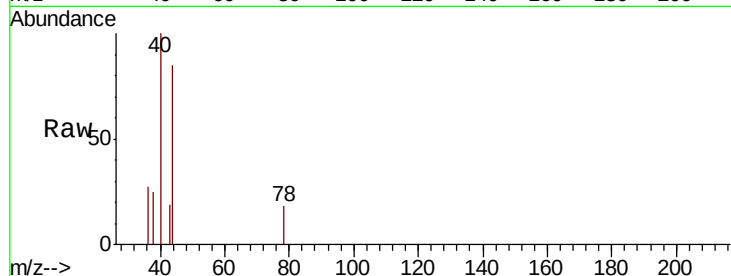
Ion Ratio Lower Upper

43 100

70 0.0 28.6 43.0#

55 0.0 17.8 26.6#

61 0.0 17.3 25.9#



#75

1,1,2,2-Tetrachloroethane

Concen: 2.178 ug/l

RT: 12.45 min Scan# 1730

Delta R.T. -0.26 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

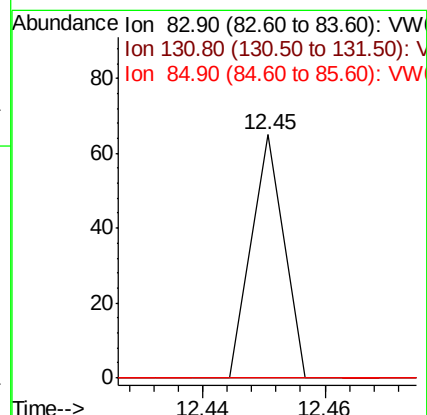
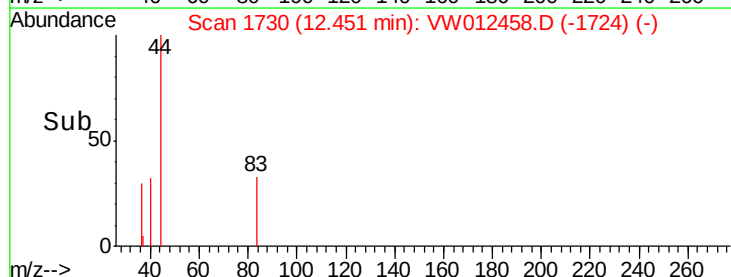
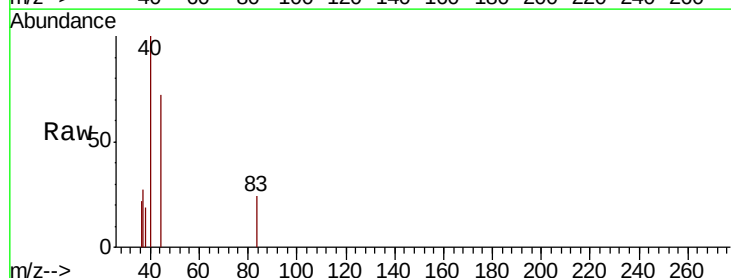
Tgt Ion: 83 Resp: 24

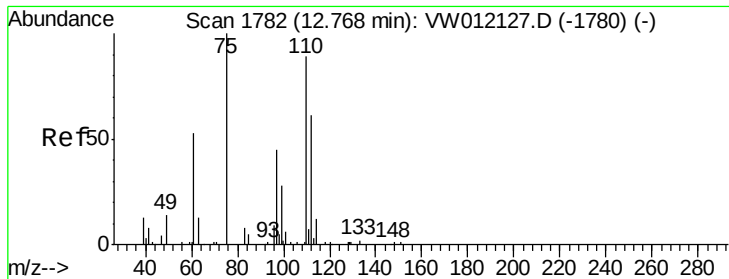
Ion Ratio Lower Upper

83 100

131 0.0 4.9 14.7#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 94.355 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampled :

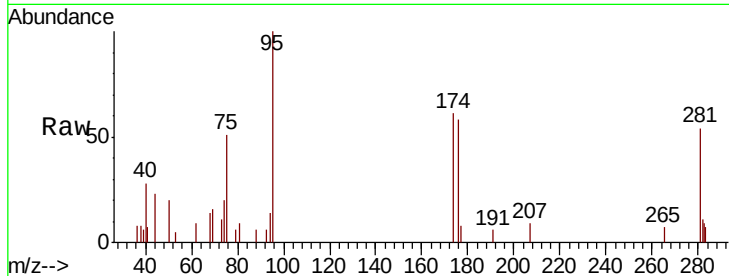
T2-S-B4-(0)

Tgt Ion: 75 Resp: 737

Ion Ratio Lower Upper

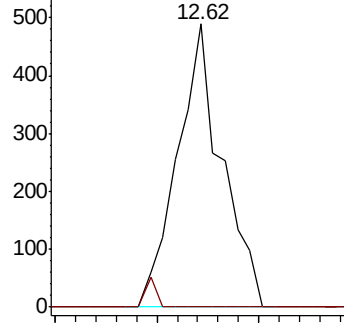
75 100

77 0.0 0.0 0.0

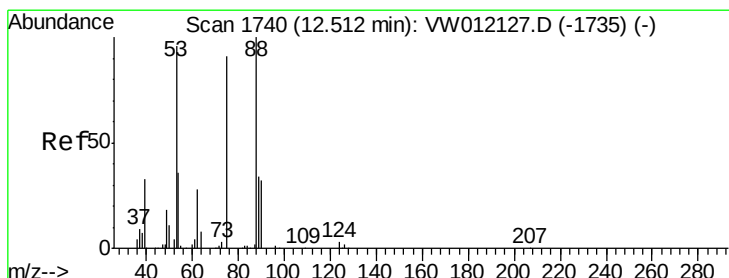
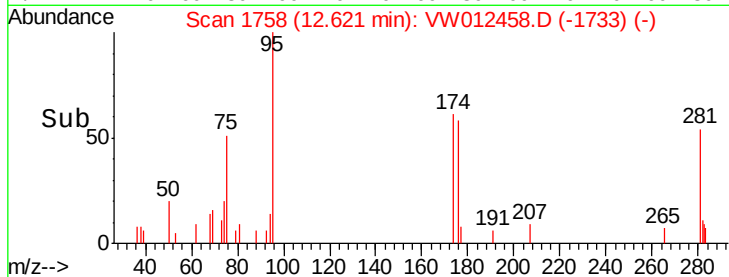


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



Time--> 12.55 12.60 12.65



#81

trans-1,4-Dichloro-2-butene

Concen: 206.877 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

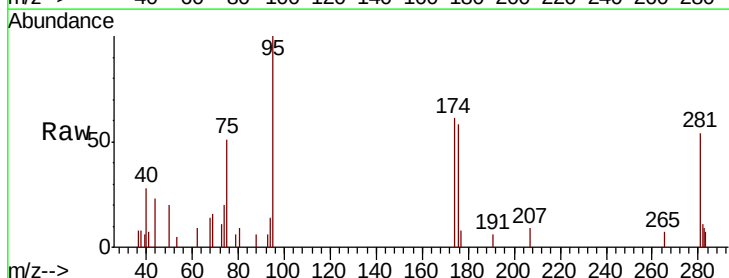
Tgt Ion: 75 Resp: 737

Ion Ratio Lower Upper

75 100

53 2.6 89.4 134.0#

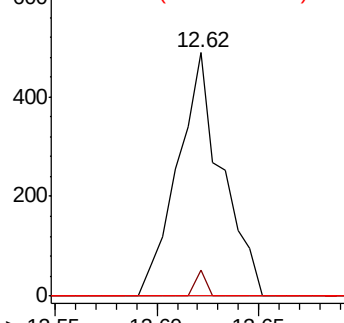
89 0.0 34.5 51.7#



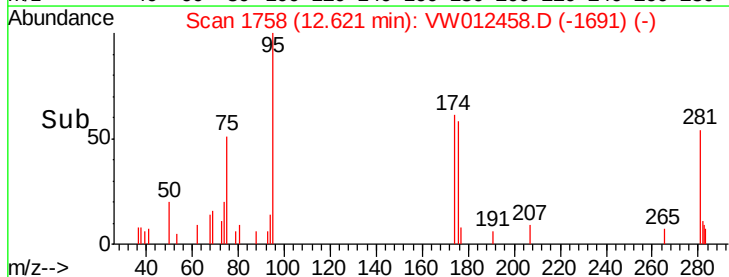
Abundance Ion 74.90 (74.60 to 75.60): VW

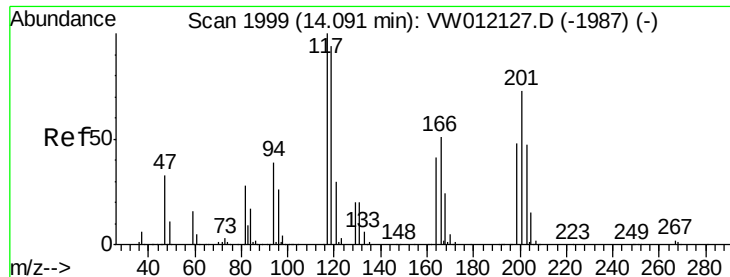
Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



Time--> 12.55 12.60 12.65





#90

Hexachloroethane

Concen: 2.828 ug/l

RT: 14.01 min Scan# 1985

Delta R.T. -0.09 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

Instrument :

MSVOA_W

ClientSampled :

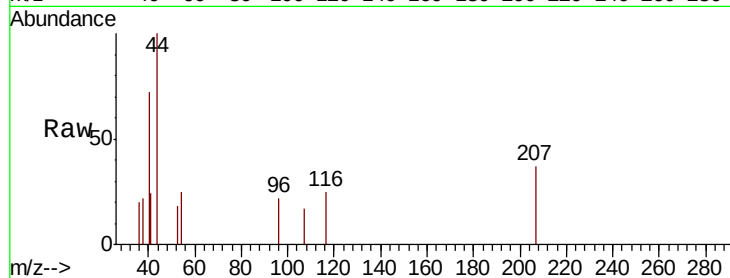
T2-S-B4-(0)

Tgt Ion:117 Resp: 27

Ion Ratio Lower Upper

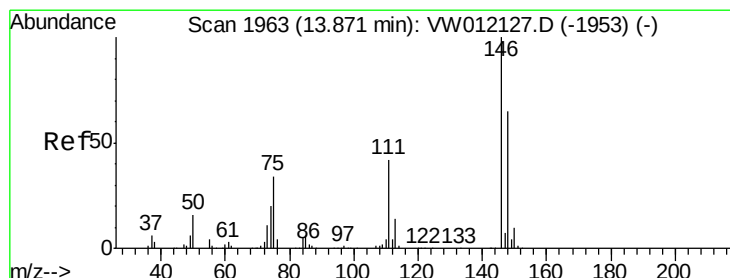
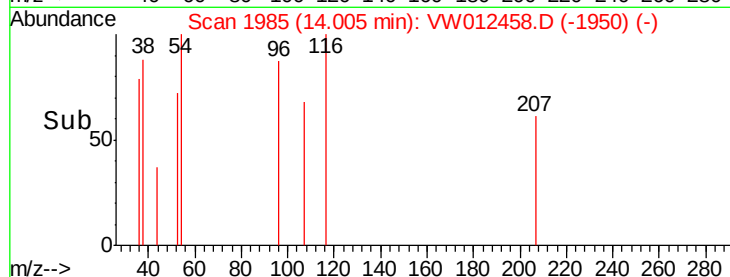
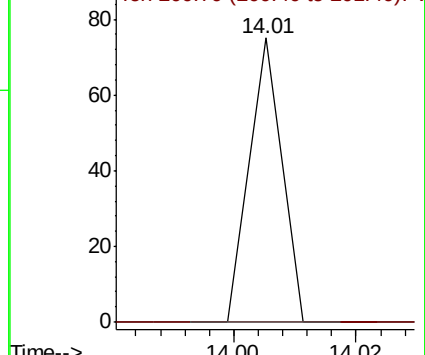
117 100

201 0.0 38.6 115.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 2.241 ug/l

RT: 13.91 min Scan# 1970

Delta R.T. 0.04 min

Lab File: VW012458.D

Acq: 01 Sep 2019 19:31

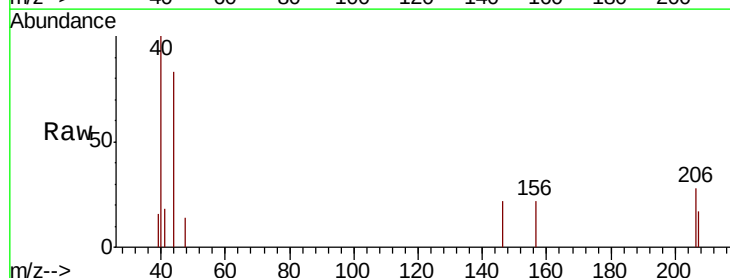
Tgt Ion:146 Resp: 50

Ion Ratio Lower Upper

146 100

111 0.0 21.2 63.6#

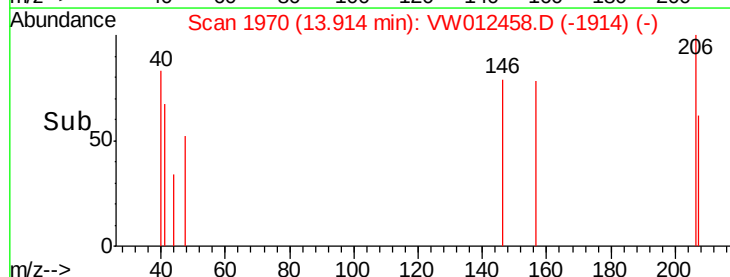
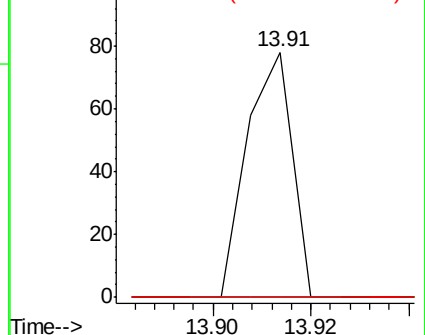
148 0.0 32.5 97.4#

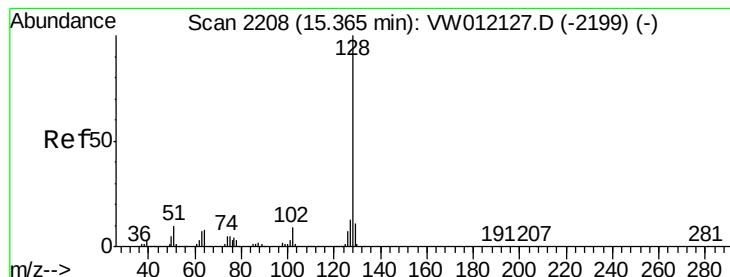


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#95
 Naphthalene
 Concen: 4.985 ug/l
 RT: 15.36 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VW012458.D
 Acq: 01 Sep 2019 19:31

Instrument :
 MSVOA_W
 ClientSampleId :
 T2-S-B4-(0)

Tgt Ion:	128	Resp:	22
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.7	16.1#
129	0.0	8.7	13.1#

