

Data File : VW013422.D
Acq On : 03 Oct 2019 15:44
Operator : SY/VA
Sample : K5143-01
Misc : 2.49G/5ML/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
30440-3077

Quant Time: Oct 04 08:26:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100119S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 02 11:49:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.93	168	319343	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.84	114	472856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	393186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	155938	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	133703	56.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.14%	
35) Dibromofluoromethane	7.87	113	127672	51.46	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	102.92%	
50) Toluene-d8	10.32	98	553243	53.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.46%	
62) 4-Bromofluorobenzene	12.62	95	159481	46.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.76%	

Target Compounds

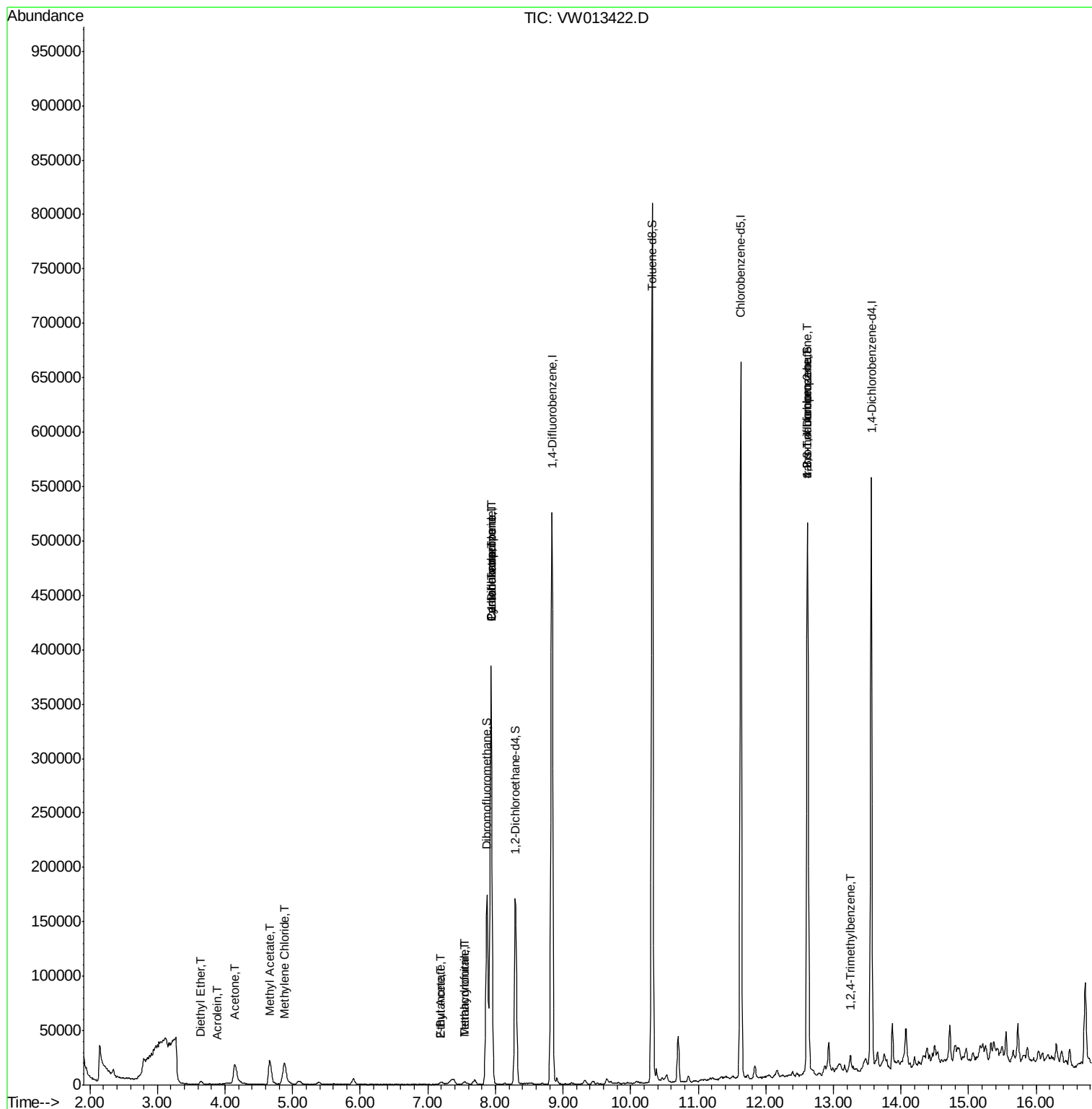
					Qvalue	
8) Diethyl Ether	3.64	74	1457	1.003	ug/l	88
11) Tert butyl alcohol	5.10	59	3178	Below Cal	#	73
13) Acrolein	3.88	56	45	10.756	ug/l #	15
16) Acetone	4.14	43	43891	60.052	ug/l	99
18) Methyl Acetate	4.66	43	44598	26.071	ug/l	99
20) Methylene Chloride	4.88	84	17889	4.224	ug/l	98
25) 2-Butanone	7.18	43	4850	5.186	ug/l #	90
26) 2,2-Dichloropropane	7.32	77	89	Below Cal	#	52
29) Tetrahydrofuran	7.54	42	2781	14.608	ug/l	96
31) Cyclohexane	7.93	56	5458	1.001	ug/l #	1
36) 1,1-Dichloropropene	7.93	75	20590	4.688	ug/l #	48
37) Ethyl Acetate	7.18	43	4850	2.645	ug/l #	69
38) Carbon Tetrachloride	7.93	117	27753	7.295	ug/l #	17
41) Methacrylonitrile	7.54	41	1771	1.515	ug/l #	37
76) 1,2,3-Trichloropropane	12.62	75	75437	54.431	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	75437	110.223	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.25	105	9583	1.017	ug/l	98

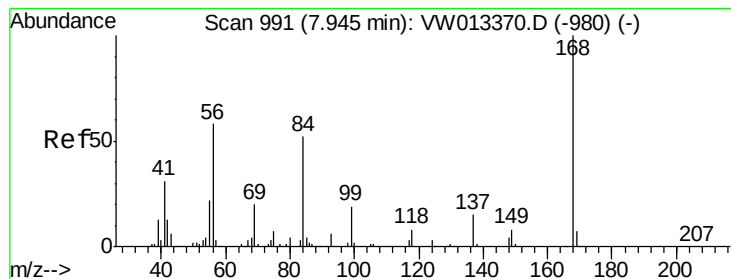
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampleId :

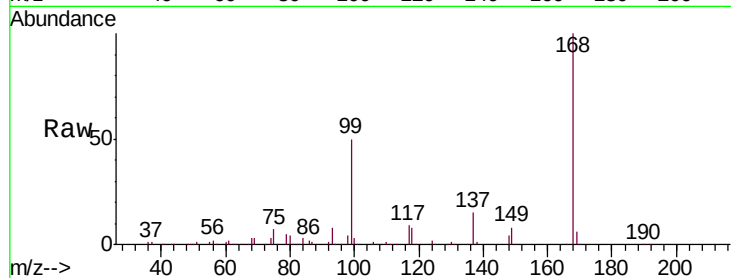
30440-3077

Tgt Ion:168 Resp: 319343

Ion Ratio Lower Upper

168 100

99 49.5 40.2 60.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.93

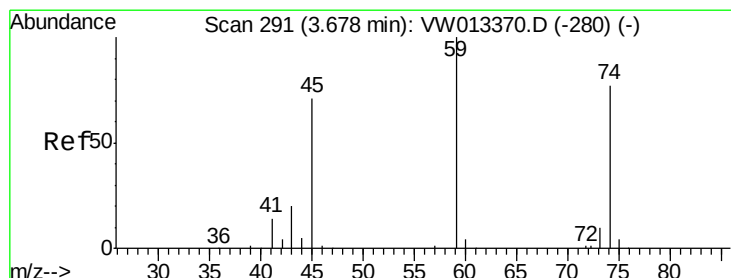
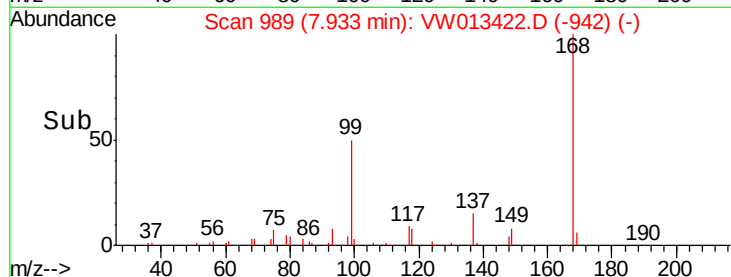
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.003 ug/l

RT: 3.64 min Scan# 285

Delta R.T. -0.04 min

Lab File: VW013422.D

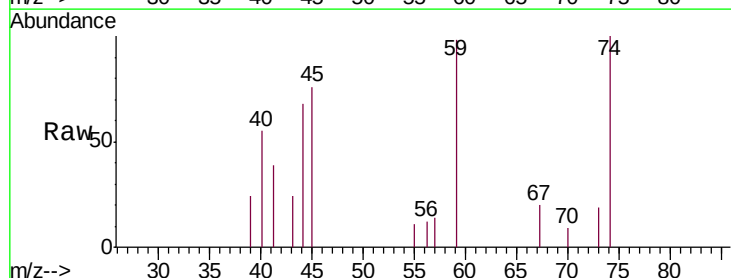
Acq: 03 Oct 2019 15:44

Tgt Ion: 74 Resp: 1457

Ion Ratio Lower Upper

74 100

45 86.9 49.5 148.7



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.64

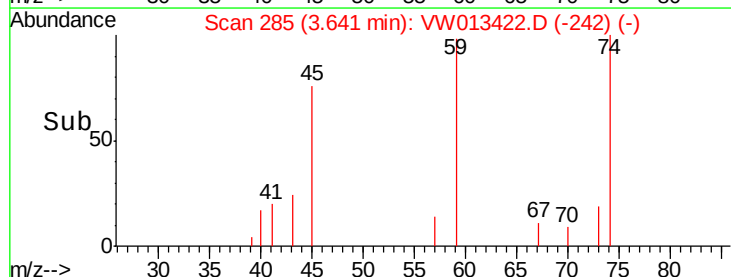
600

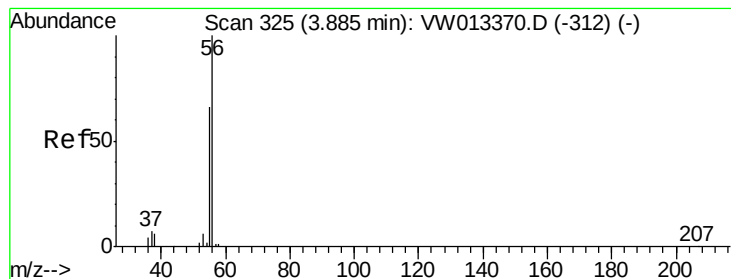
400

200

0

Time-->





#13

Acrolein

Concen: 10.756 ug/l

RT: 3.88 min Scan# 324

Delta R.T. -0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampled :

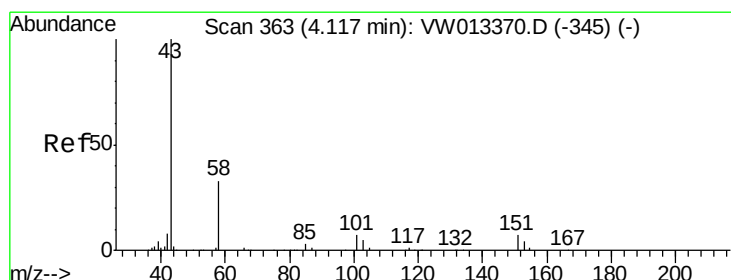
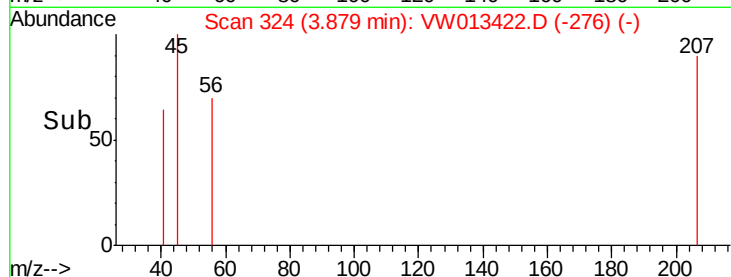
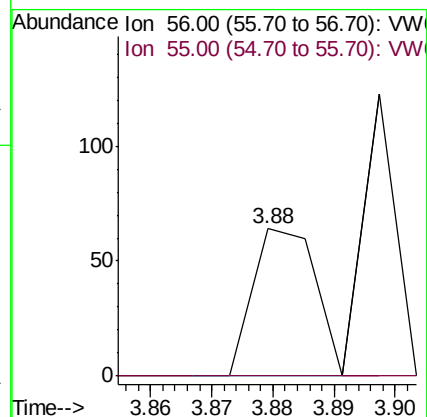
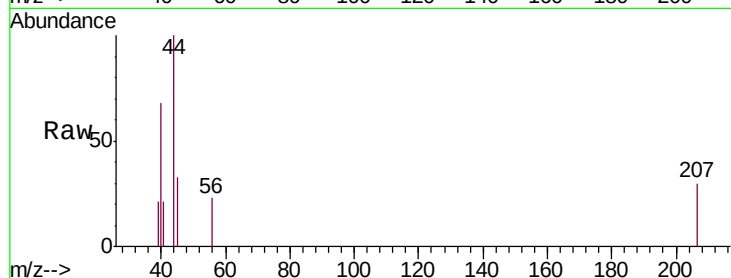
30440-3077

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



#16

Acetone

Concen: 60.052 ug/l

RT: 4.14 min Scan# 367

Delta R.T. 0.02 min

Lab File: VW013422.D

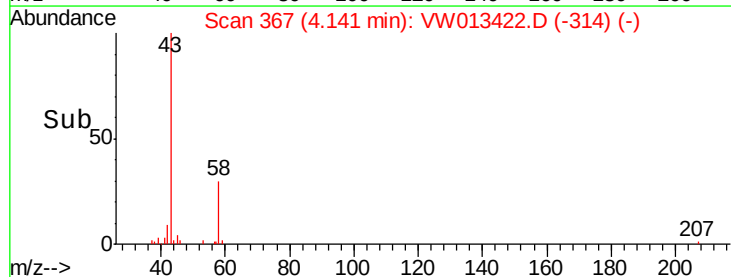
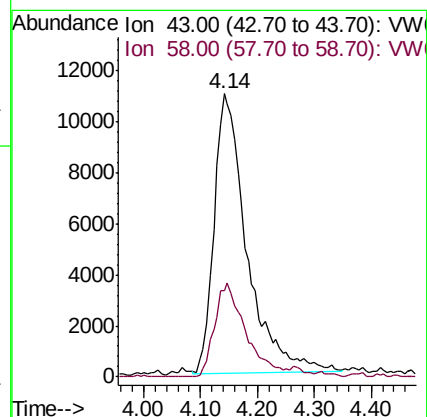
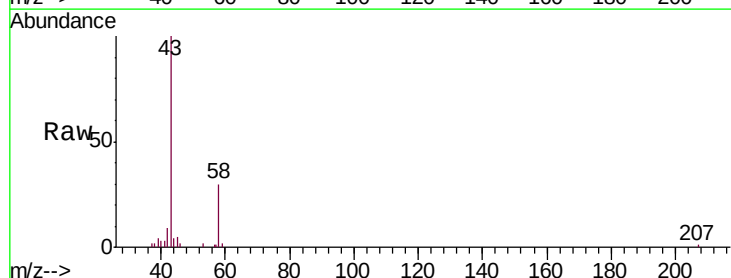
Acq: 03 Oct 2019 15:44

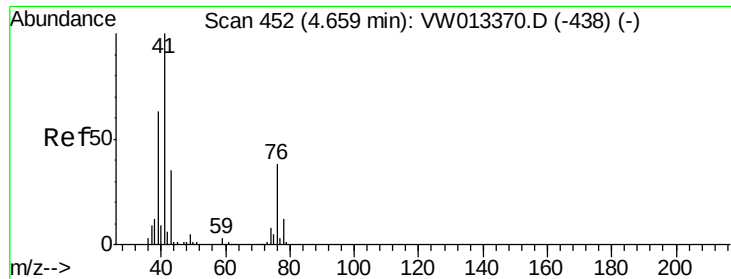
Tgt Ion: 43 Resp: 43891

Ion Ratio Lower Upper

43 100

58 30.9 24.1 36.1

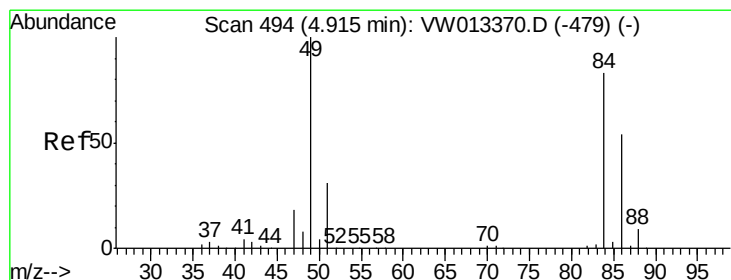
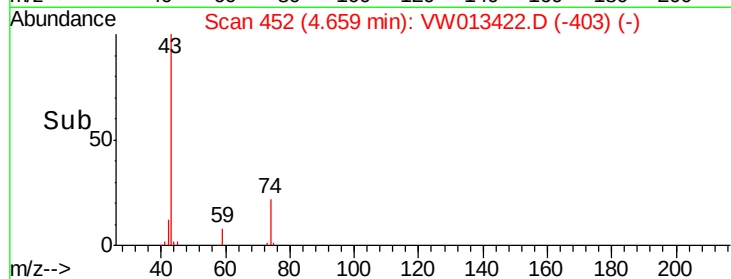
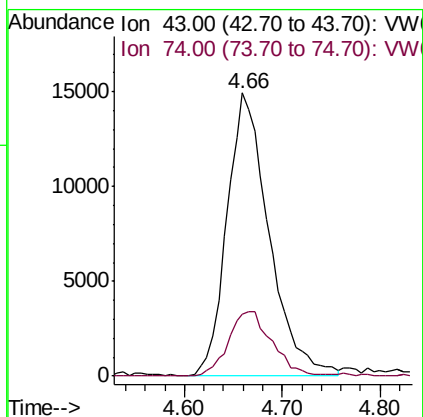
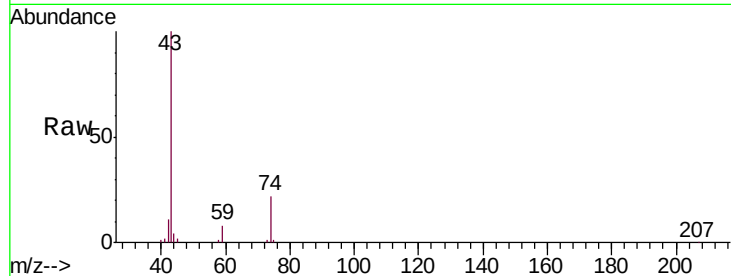




#18
Methyl Acetate
Concen: 26.071 ug/l
RT: 4.66 min Scan# 452
Delta R.T. 0.00 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

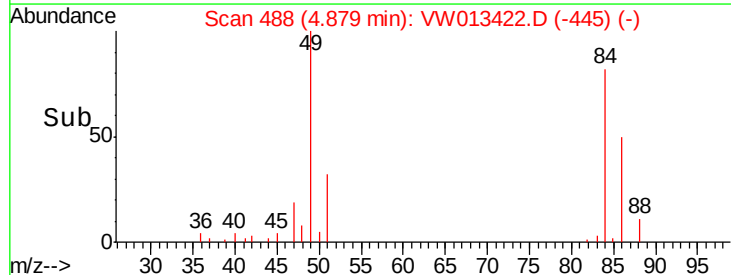
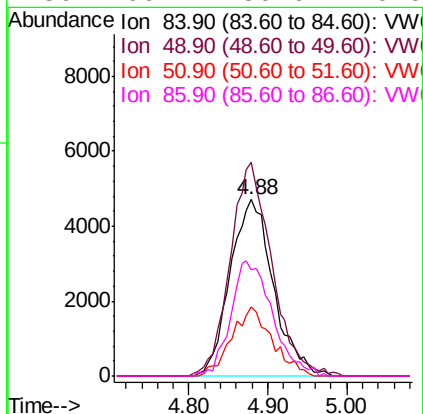
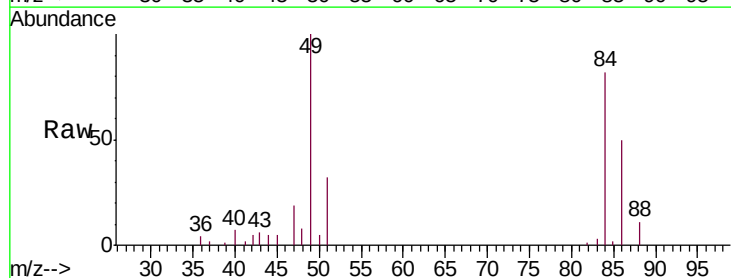
Instrument :
MSVOA_W
ClientSampleId :
30440-3077

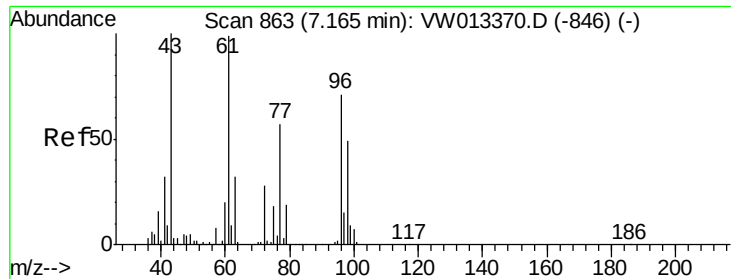
Tgt Ion: 43 Resp: 44598
Ion Ratio Lower Upper
43 100
74 23.4 19.3 28.9



#20
Methylene Chloride
Concen: 4.224 ug/l
RT: 4.88 min Scan# 488
Delta R.T. -0.04 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

Tgt Ion: 84 Resp: 17889
Ion Ratio Lower Upper
84 100
49 121.3 97.6 146.4
51 39.2 30.2 45.2
86 60.4 50.6 76.0





#25

2-Butanone

Concen: 5.186 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.02 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampled :

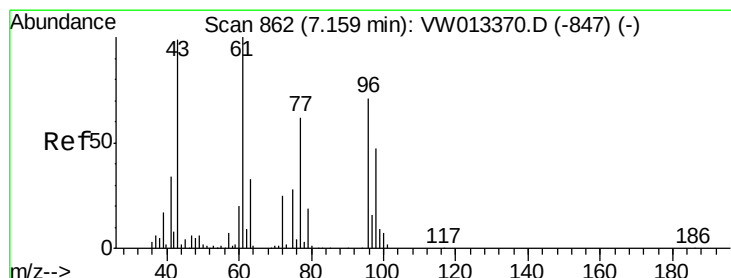
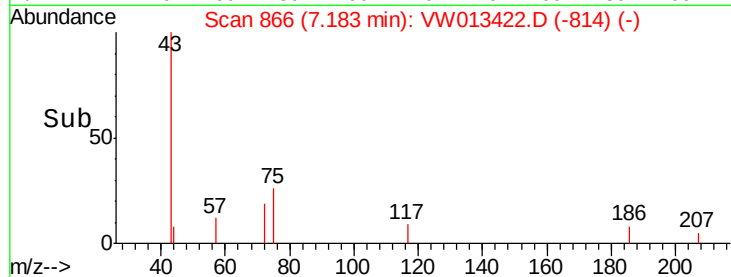
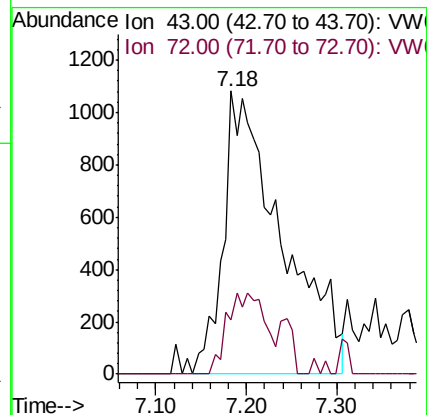
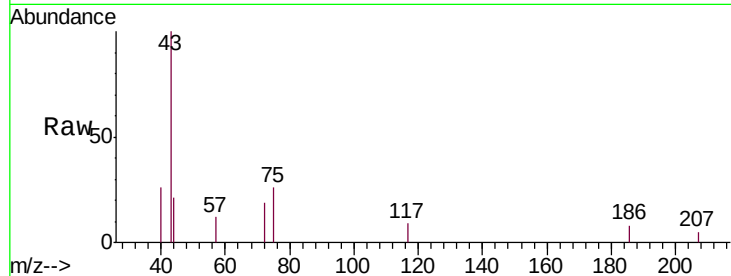
30440-3077

Tgt Ion: 43 Resp: 4850

Ion Ratio Lower Upper

43 100

72 19.2 19.4 29.0#



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.32 min Scan# 889

Delta R.T. 0.17 min

Lab File: VW013422.D

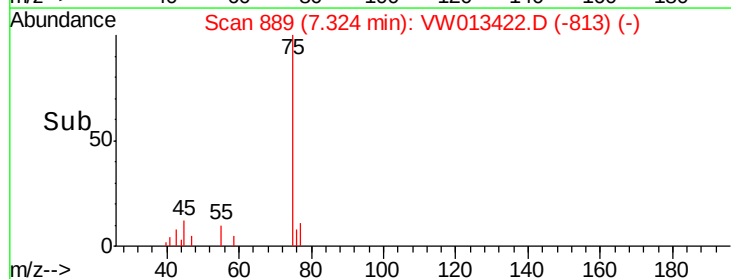
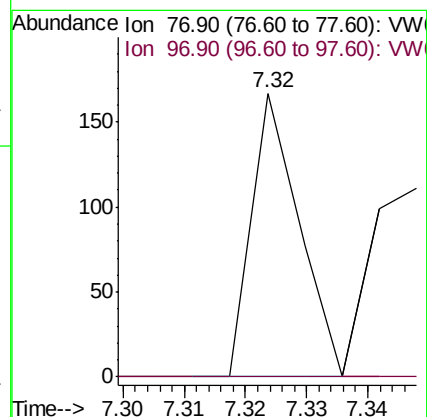
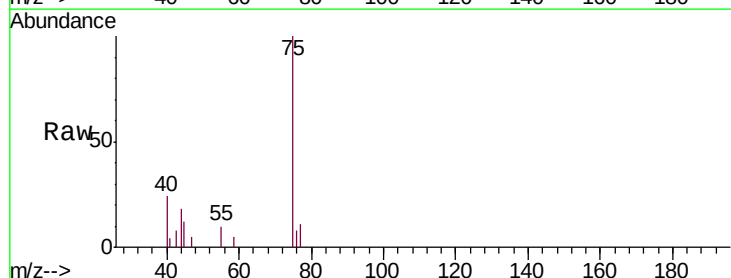
Acq: 03 Oct 2019 15:44

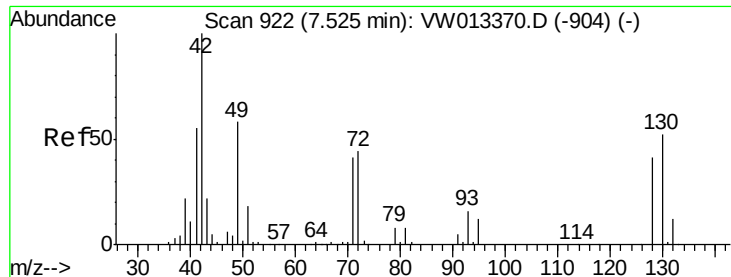
Tgt Ion: 77 Resp: 89

Ion Ratio Lower Upper

77 100

97 0.0 11.8 35.4#





#29

Tetrahydrofuran

Concen: 14.608 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.02 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

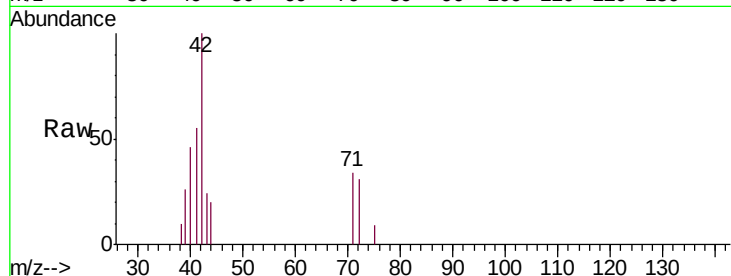
Tgt Ion: 42 Resp: 2781

Ion Ratio Lower Upper

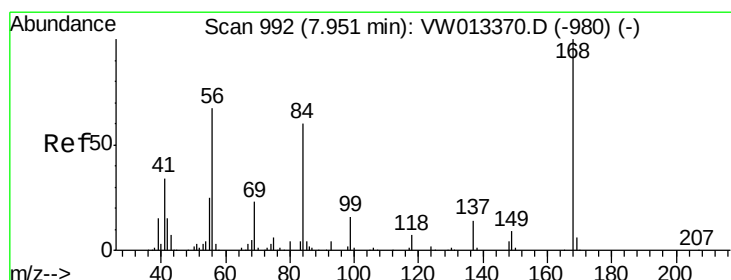
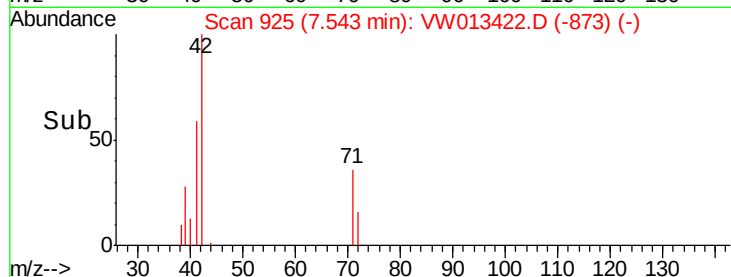
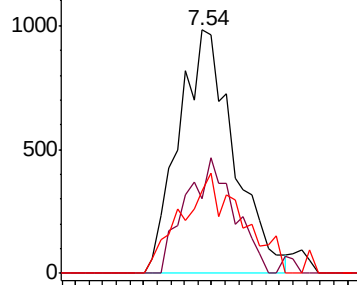
42 100

72 42.0 33.9 50.9

71 45.1 31.9 47.9



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: 1.001 ug/l

RT: 7.93 min Scan# 988

Delta R.T. -0.02 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

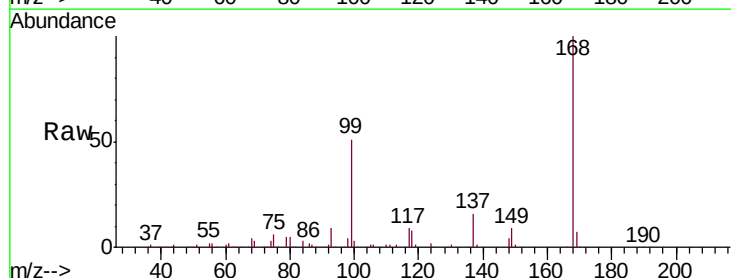
Tgt Ion: 56 Resp: 5458

Ion Ratio Lower Upper

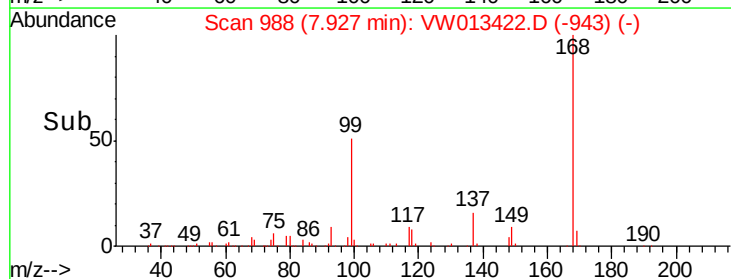
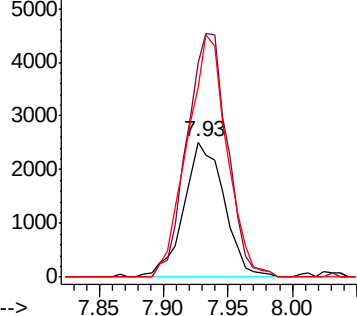
56 100

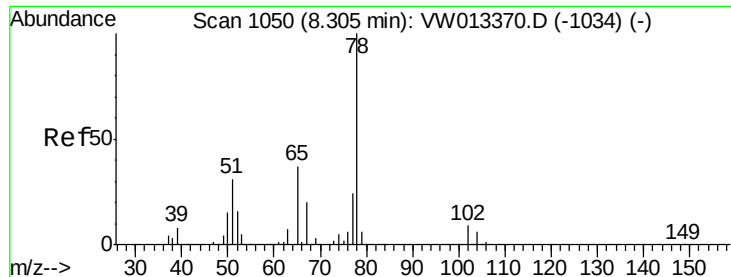
69 158.9 27.2 40.8#

84 140.2 70.8 106.2#



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

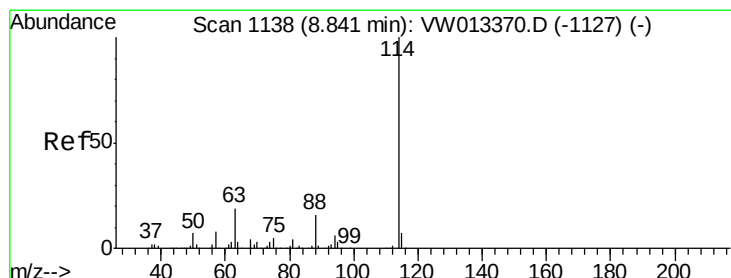
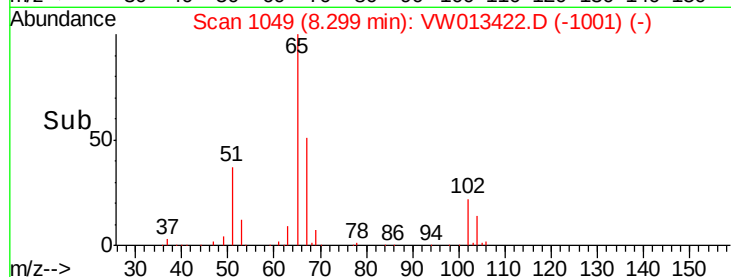
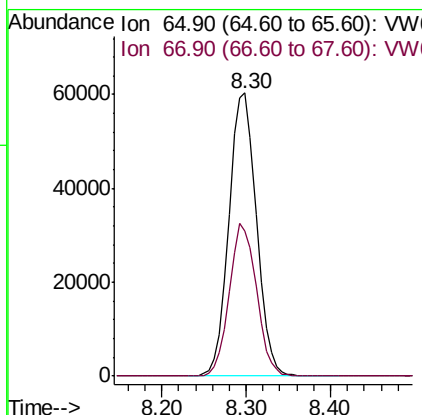
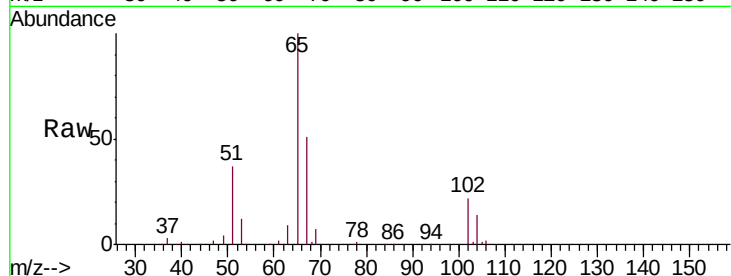




#33
 1,2-Dichloroethane-d4
 Concen: 56.073 ug/l
 RT: 8.30 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 15:44

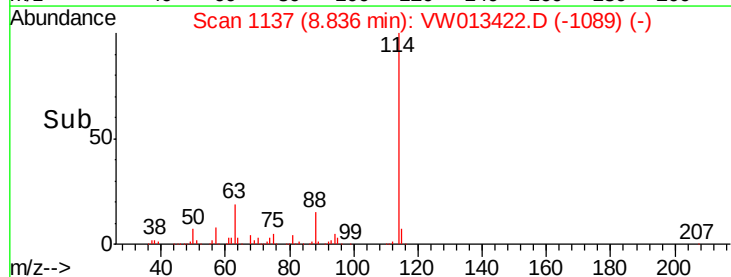
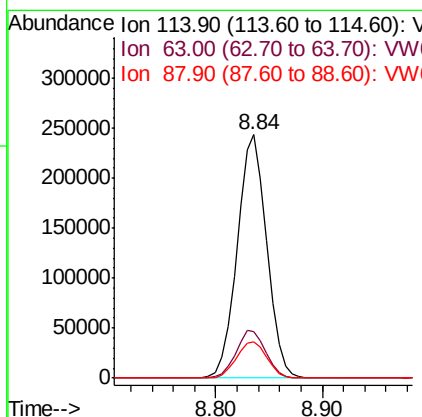
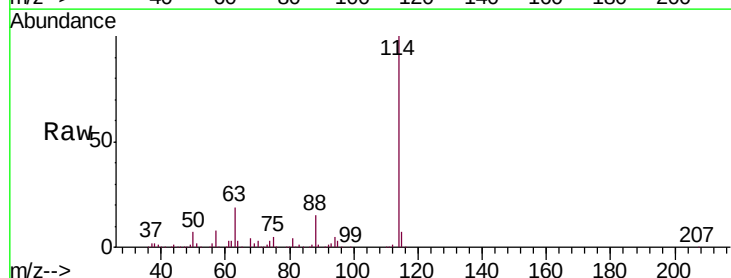
Instrument :
 MSVOA_W
 ClientSampleId :
 30440-3077

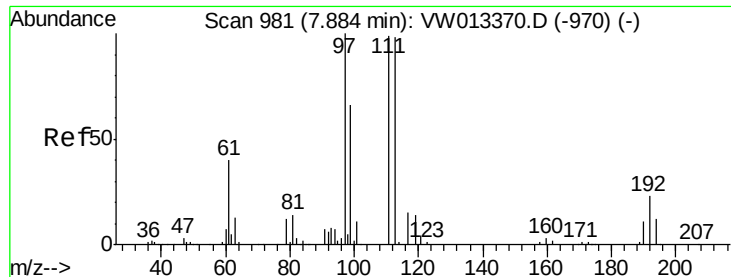
Tgt Ion: 65 Resp: 133703
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 15:44

Tgt Ion: 114 Resp: 472856
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 41.4
 88 14.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 51.456 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

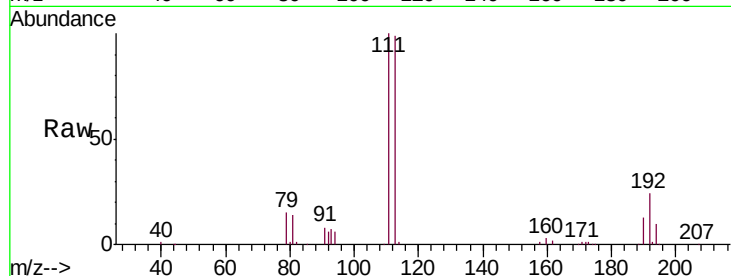
Tgt Ion:113 Resp: 127672

Ion Ratio Lower Upper

113 100

111 101.4 81.9 122.9

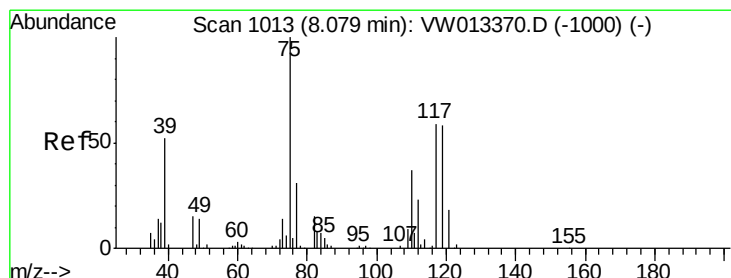
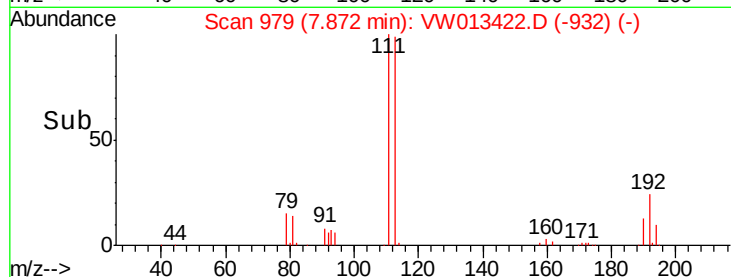
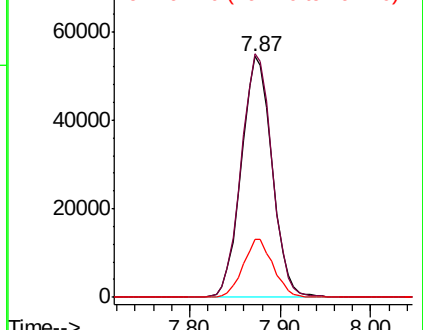
192 23.4 19.1 28.7



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: 4.688 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.15 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

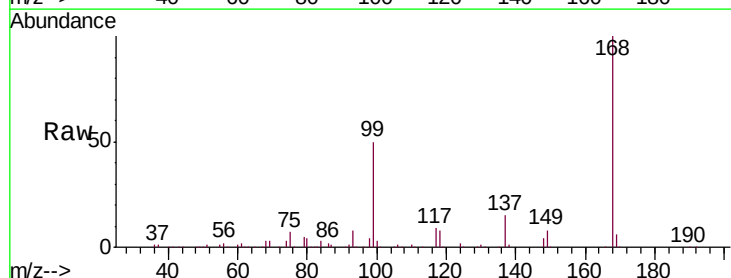
Tgt Ion: 75 Resp: 20590

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

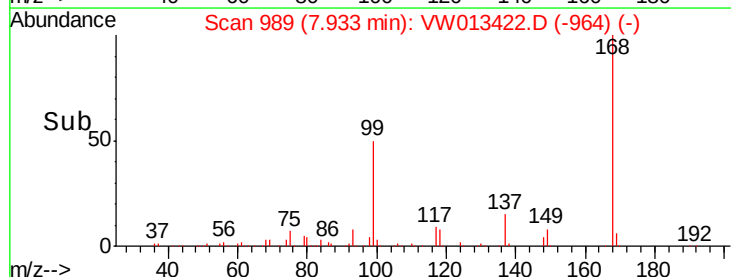
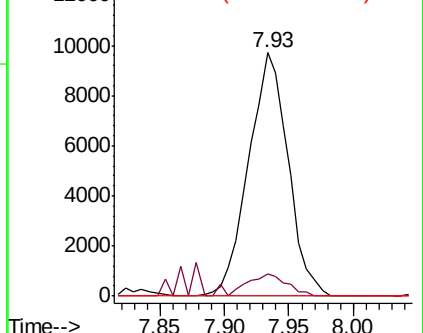
77 0.0 25.8 38.6#

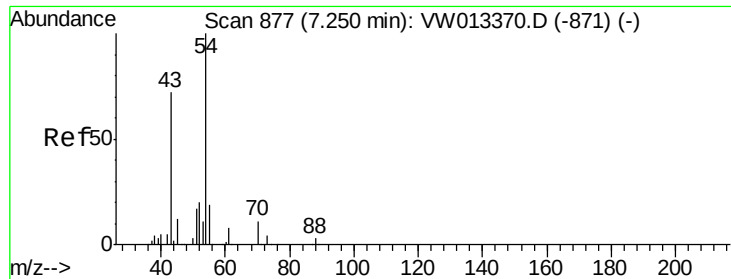


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

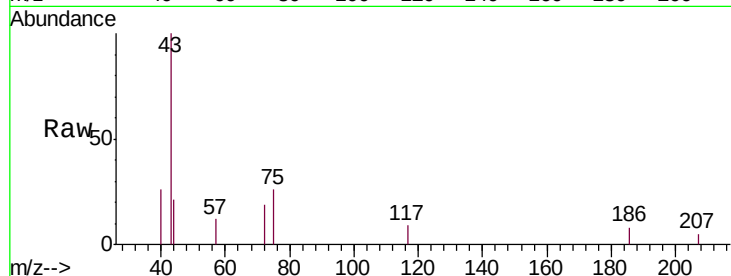




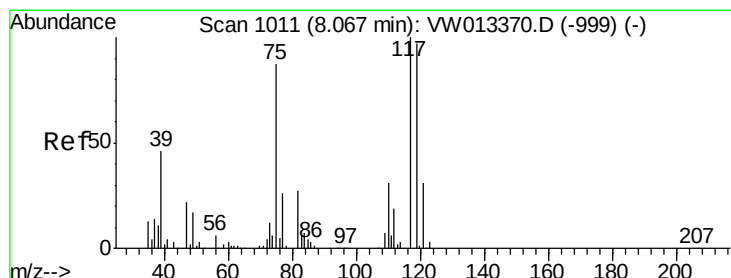
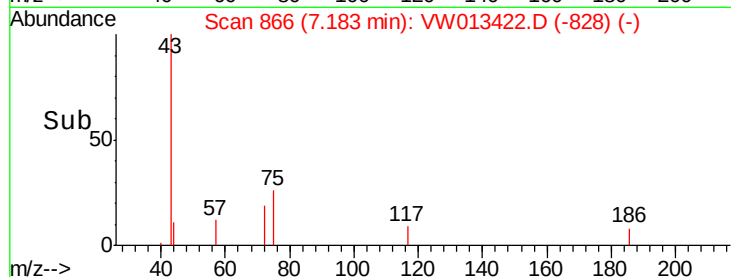
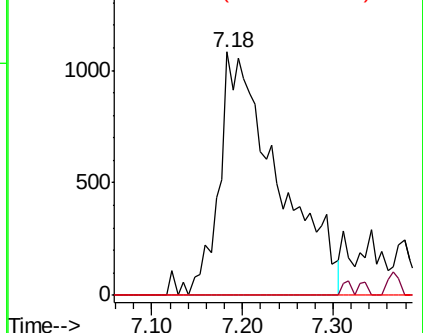
#37
Ethyl Acetate
Concen: 2.645 ug/l
RT: 7.18 min Scan# 866
Delta R.T. -0.07 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

Instrument :
MSVOA_W
ClientSampled :
30440-3077

Tgt Ion: 43 Resp: 4850
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 8.2 12.2#

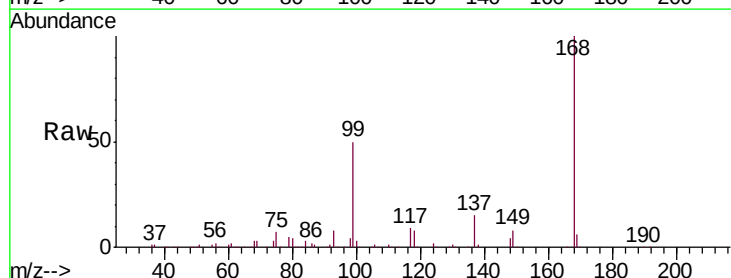


Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW

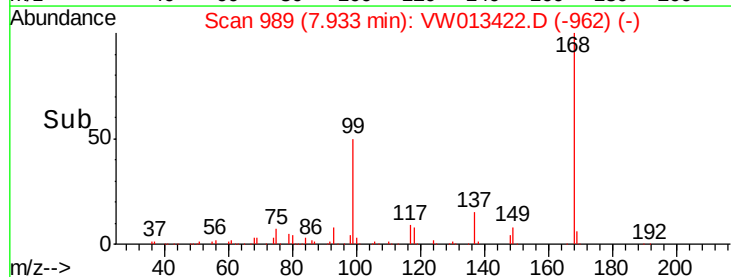
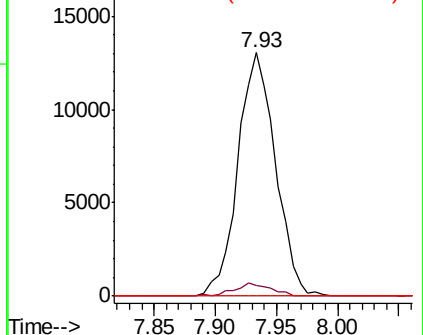


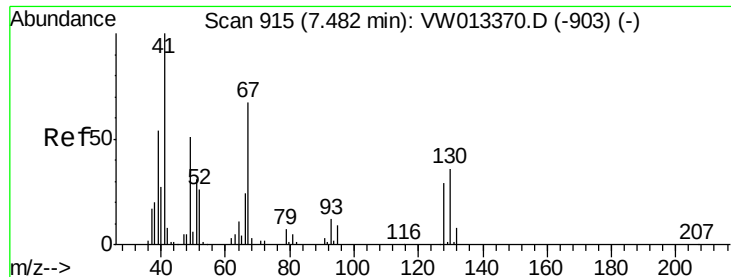
#38
Carbon Tetrachloride
Concen: 7.295 ug/l
RT: 7.93 min Scan# 989
Delta R.T. -0.13 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

Tgt Ion: 117 Resp: 27753
Ion Ratio Lower Upper
117 100
119 4.4 73.5 110.3#
121 0.0 25.0 37.6#



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

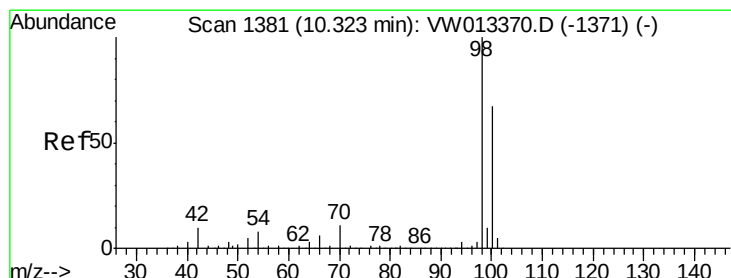
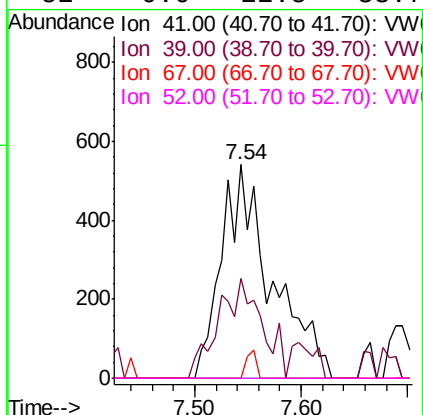
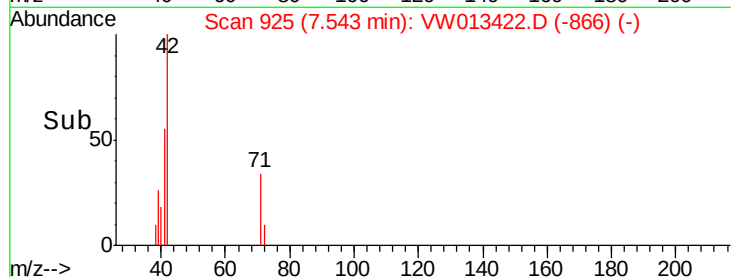
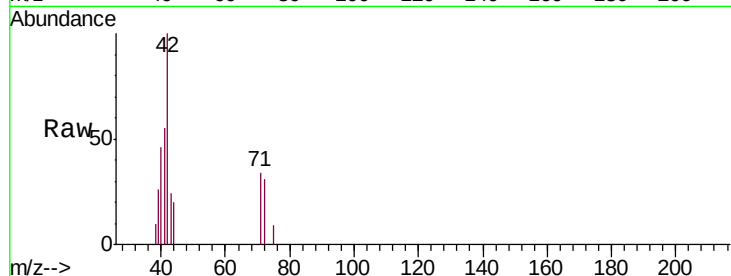




#41
Methacrylonitrile
Concen: 1.515 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.06 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

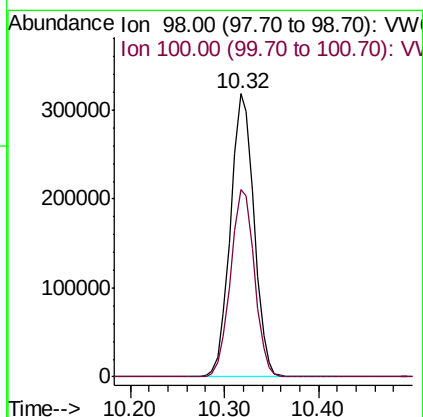
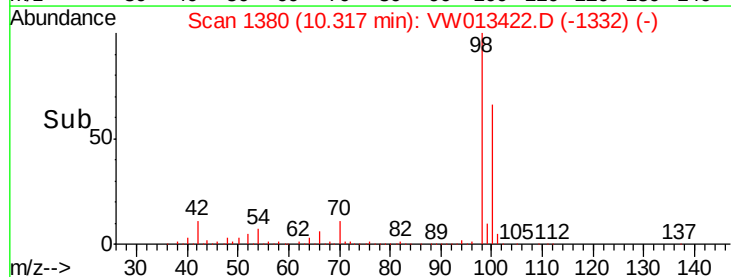
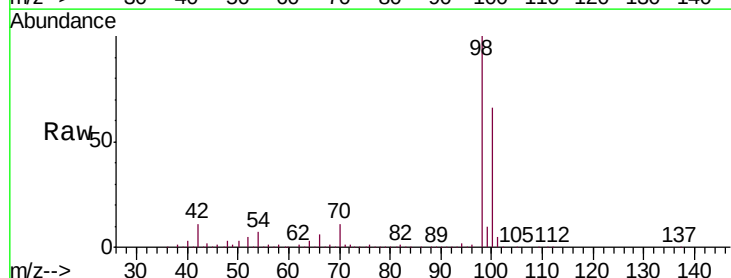
Instrument :
MSVOA_W
ClientSampleId :
30440-3077

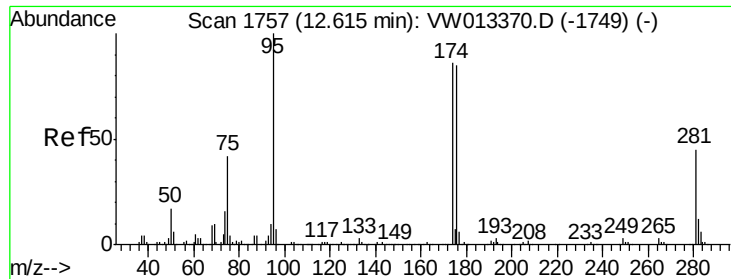
Tgt Ion:	41	Resp:	1771
Ion	Ratio	Lower	Upper
41	100		
39	22.5	45.9	68.9#
67	2.7	54.5	81.7#
52	0.0	22.5	33.7#



#50
Toluene-d8
Concen: 53.731 ug/l
RT: 10.32 min Scan# 1380
Delta R.T. -0.01 min
Lab File: VW013422.D
Acq: 03 Oct 2019 15:44

Tgt Ion:	98	Resp:	553243
Ion	Ratio	Lower	Upper
98	100		
100	67.3	52.9	79.3





#62

4-Bromofluorobenzene

Concen: 46.383 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

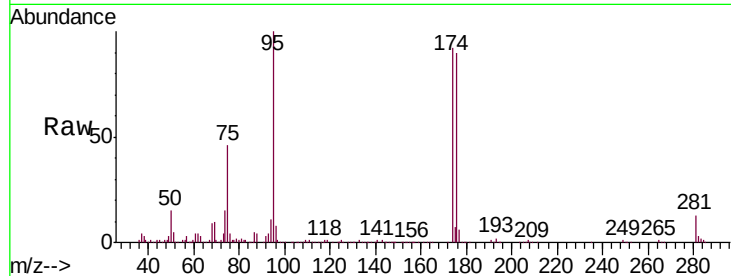
Tgt Ion: 95 Resp: 159481

Ion Ratio Lower Upper

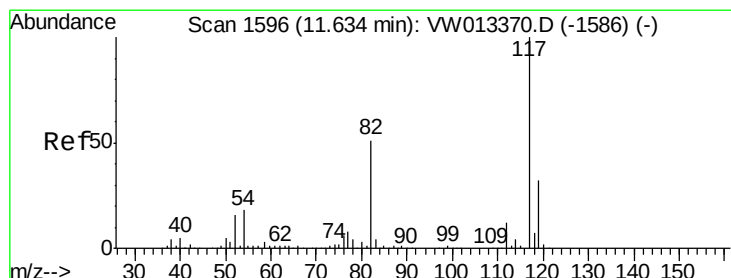
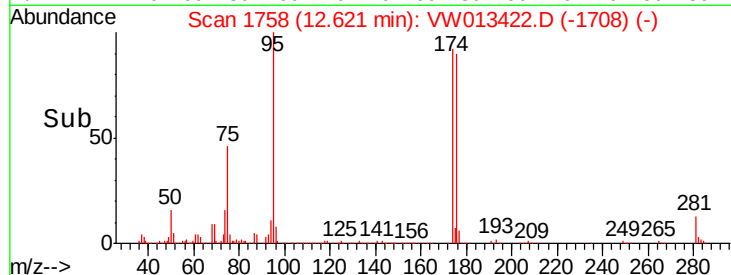
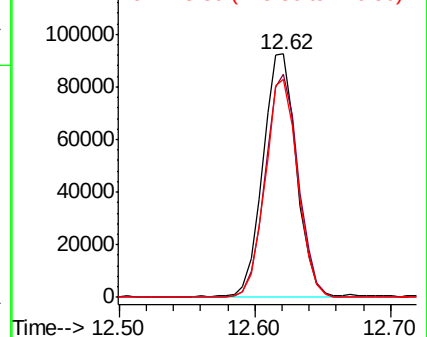
95 100

174 90.7 0.0 178.4

176 87.2 0.0 172.2



Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

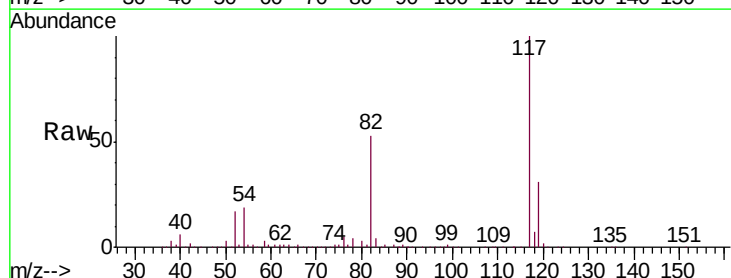
Tgt Ion: 117 Resp: 393186

Ion Ratio Lower Upper

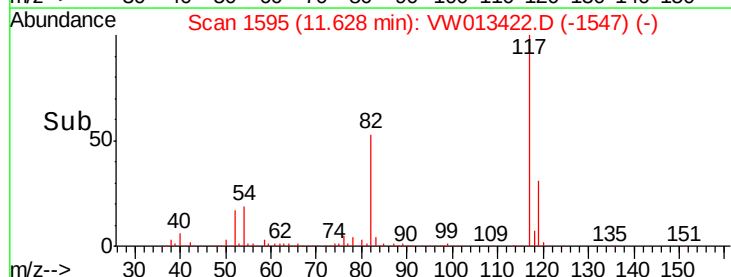
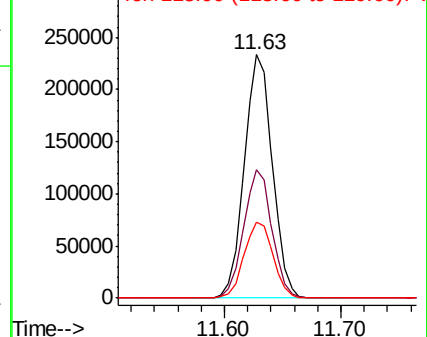
117 100

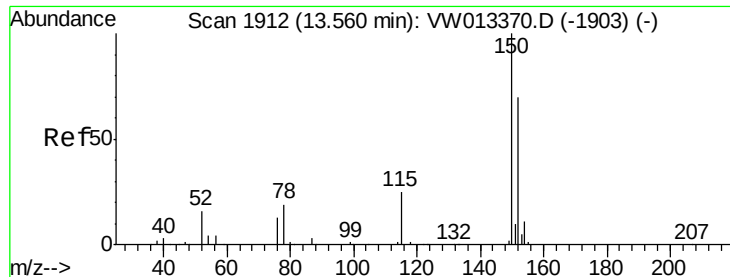
82 52.5 45.9 68.9

119 31.2 26.2 39.2



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

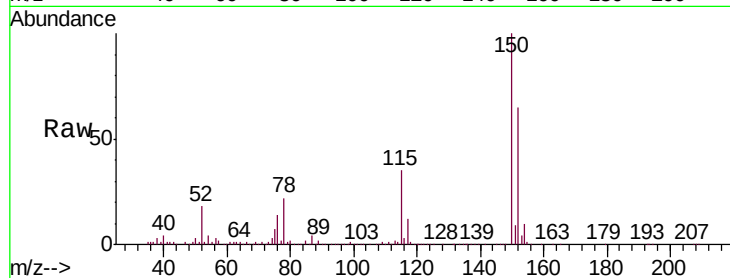




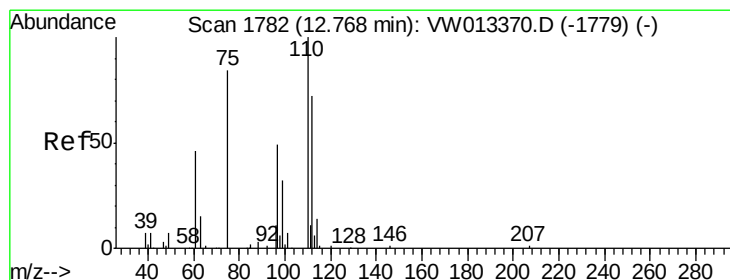
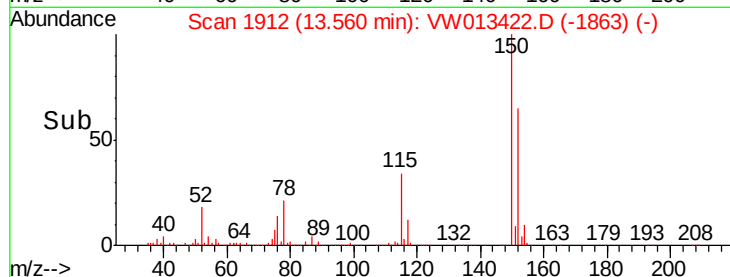
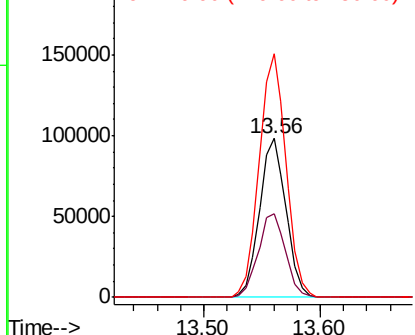
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.56 min Scan# 1912
 Delta R.T. 0.00 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 15:44

Instrument :
 MSVOA_W
 ClientSampleId :
 30440-3077

Tgt Ion:152 Resp: 155938
 Ion Ratio Lower Upper
 152 100
 115 54.1 27.3 81.9
 150 155.4 0.0 349.0

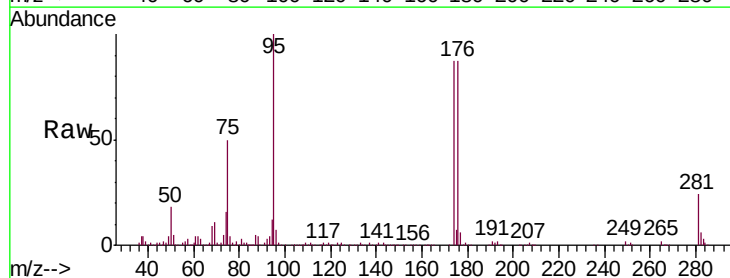


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

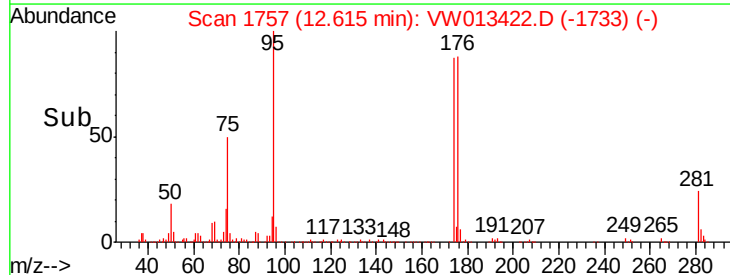
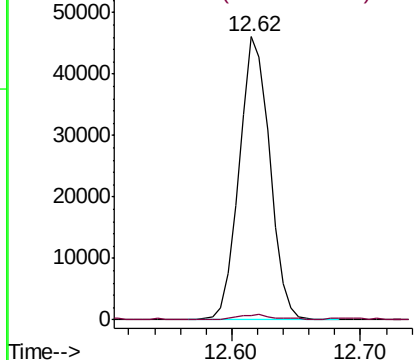


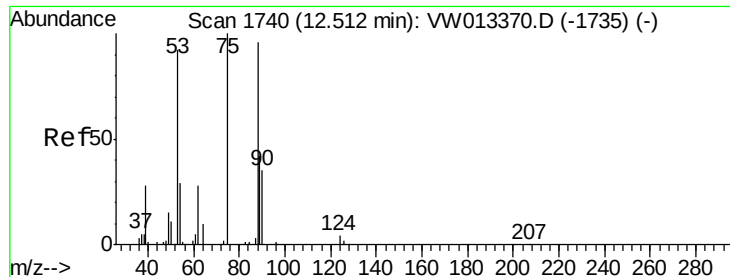
#76
 1,2,3-Trichloropropane
 Concen: 54.431 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW013422.D
 Acq: 03 Oct 2019 15:44

Tgt Ion: 75 Resp: 75437
 Ion Ratio Lower Upper
 75 100
 77 1.8 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: 110.223 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013422.D

Acq: 03 Oct 2019 15:44

Instrument :

MSVOA_W

ClientSampleId :

30440-3077

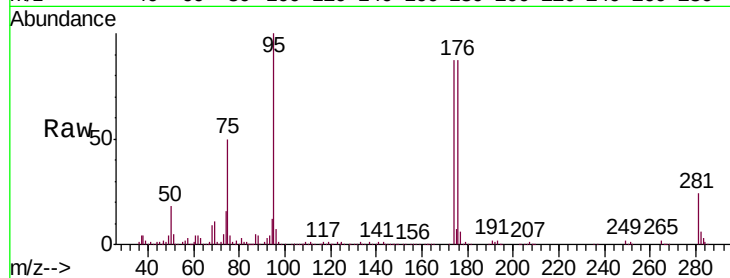
Tgt Ion: 75 Resp: 75437

Ion Ratio Lower Upper

75 100

53 0.3 76.6 114.8#

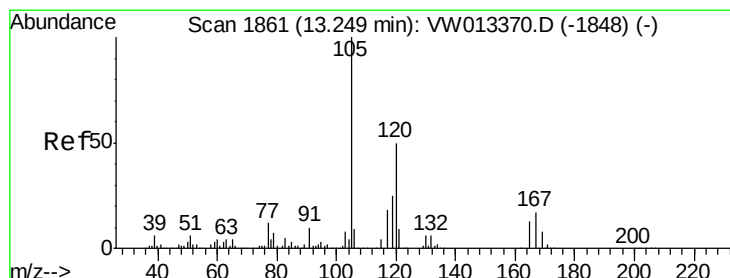
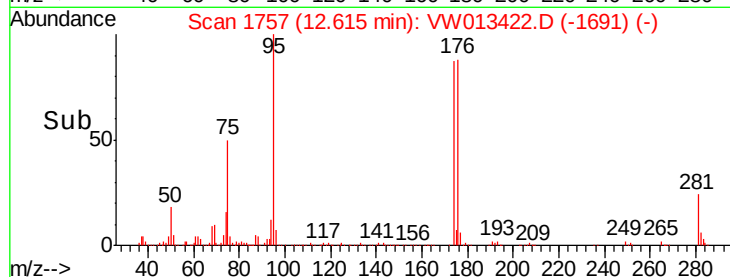
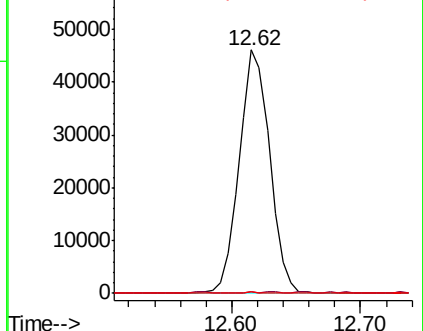
89 0.1 33.5 50.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.017 ug/l

RT: 13.25 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VW013422.D

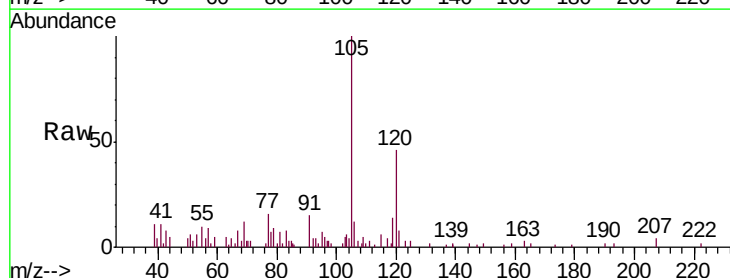
Acq: 03 Oct 2019 15:44

Tgt Ion: 105 Resp: 9583

Ion Ratio Lower Upper

105 100

120 45.8 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

