

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090219\
 Data File : VW012531.D
 Acq On : 03 Sep 2019 06:15
 Operator : SY/VA
 Sample : K4544-18
 Misc : 3.722G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T16-17-C4-(2.25)

Quant Time: Sep 03 07:47:45 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	3976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	5170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	2020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	321	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	2565	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	
35) Dibromofluoromethane	7.89	113	2094	67.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	135.72%	
50) Toluene-d8	10.32	98	5391	43.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.16%	
62) 4-Bromofluorobenzene	12.62	95	548	12.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	24.84%	

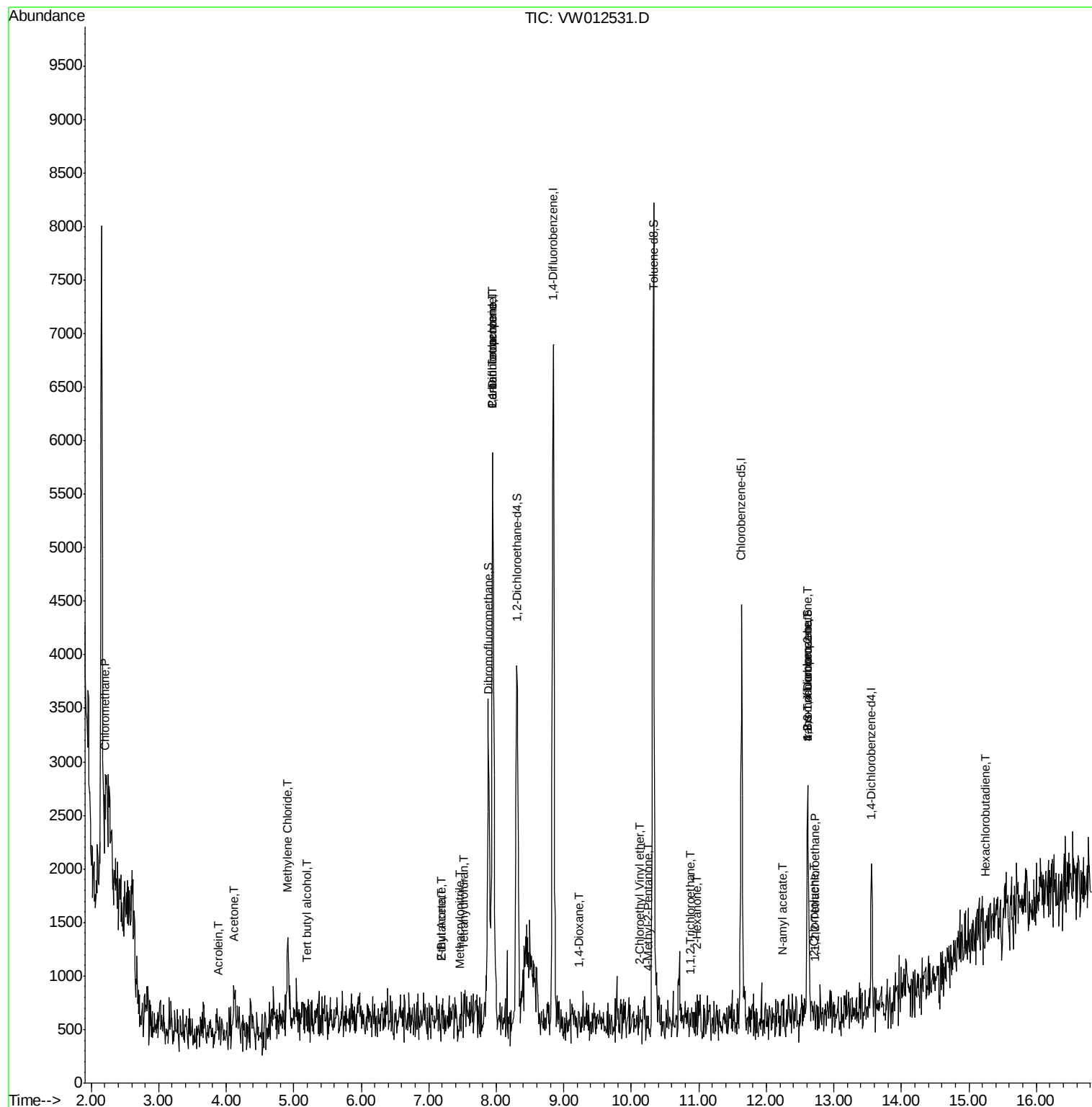
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	118	3.111	ug/l #	43
11) Tert butyl alcohol	5.20	59	27	9.492	ug/l #	71
13) Acrolein	3.88	56	21	7.843	ug/l #	15
16) Acetone	4.11	43	766	63.401	ug/l #	80
20) Methylene Chloride	4.90	84	449	9.830	ug/l #	71
25) 2-Butanone	7.20	43	93	5.665	ug/l #	56
29) Tetrahydrofuran	7.52	42	135	13.706	ug/l #	42
36) 1,1-Dichloropropene	7.95	75	404	7.562	ug/l #	44
37) Ethyl Acetate	7.20	43	93	3.177	ug/l #	73
38) Carbon Tetrachloride	7.95	117	485	10.488	ug/l #	12
41) Methacrylonitrile	7.47	41	48	2.790	ug/l #	11
49) 1,4-Dioxane	9.22	88	22	82.266	ug/l #	14
51) 4-Methyl-2-Pentanone	10.25	43	41	1.486	ug/l #	40
55) 1,1,2-Trichloroethane	10.88	97	30	1.214	ug/l #	14
58) 2-Chloroethyl Vinyl ether	10.12	63	44	2.383	ug/l #	50
59) 2-Hexanone	10.98	43	43	2.203	ug/l #	28
74) N-amyl acetate	12.24	43	57	7.844	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.72	83	19	4.309	ug/l #	26
76) 1,2,3-Trichloropropane	12.62	75	290	92.761	ug/l #	100
79) 2-Chlorotoluene	12.70	91	19	1.140	ug/l #	43
81) trans-1,4-Dichloro-2-buten	12.62	75	290	203.382	ug/l #	6
94) Hexachlorobutadiene	15.24	225	21	5.154	ug/l #	18

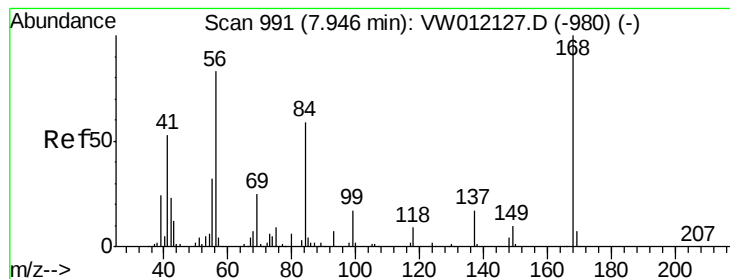
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 03 07:47:45 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
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: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

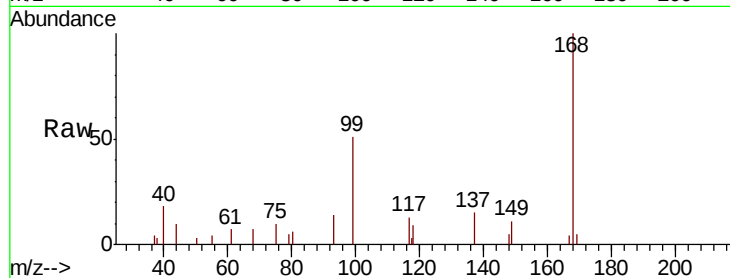
T16-17-C4-(2.25)

Tgt Ion:168 Resp: 3976

Ion Ratio Lower Upper

168 100

99 51.1 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

1500

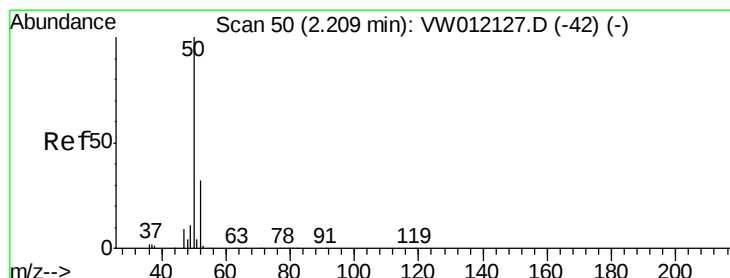
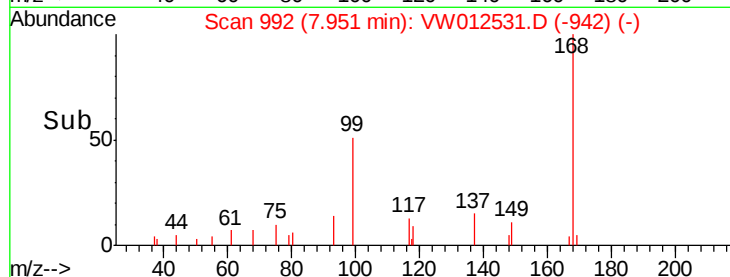
1000

500

0

7.85 7.90 7.95 8.00 8.05

Time-->



#3

Chloromethane

Concen: 3.111 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW012531.D

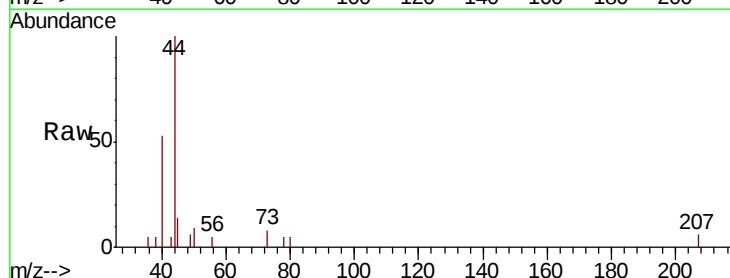
Acq: 03 Sep 2019 06:15

Tgt Ion: 50 Resp: 118

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

120

100

80

60

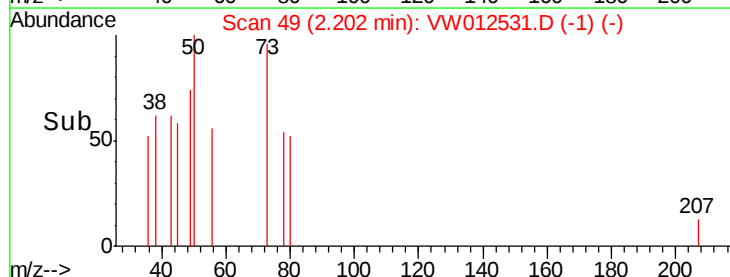
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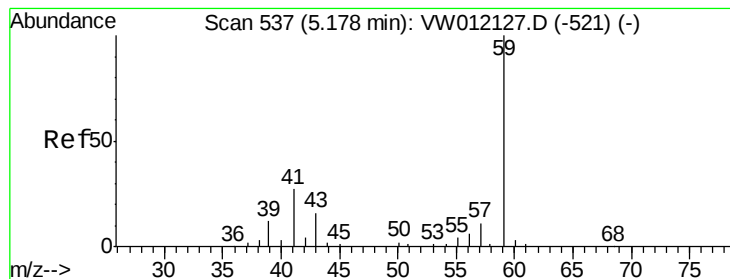
20

0

2.18 2.20 2.22 2.24

Time-->



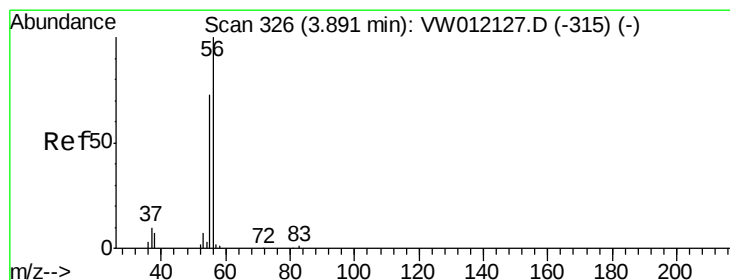
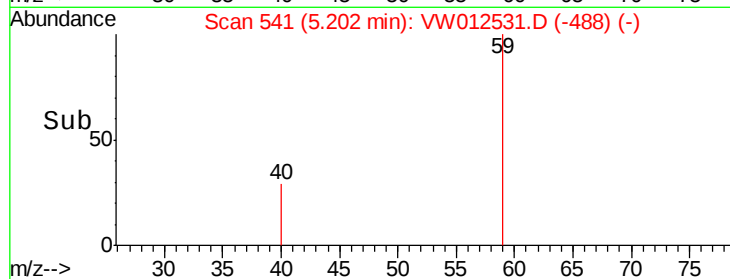
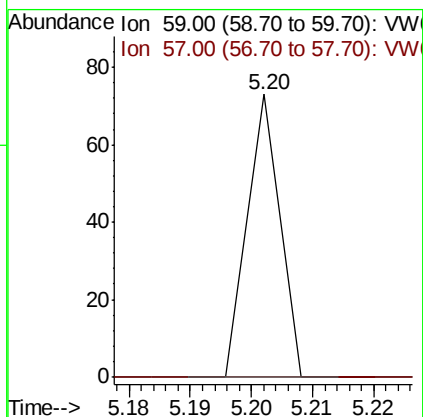
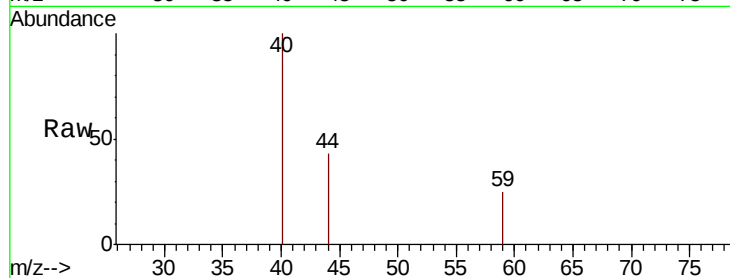


#11

Tert butyl alcohol
 Concen: 9.492 ug/l
 RT: 5.20 min Scan# 541
 Delta R.T. 0.02 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

Instrument :
 MSVOA_W
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 T16-17-C4-(2.25)

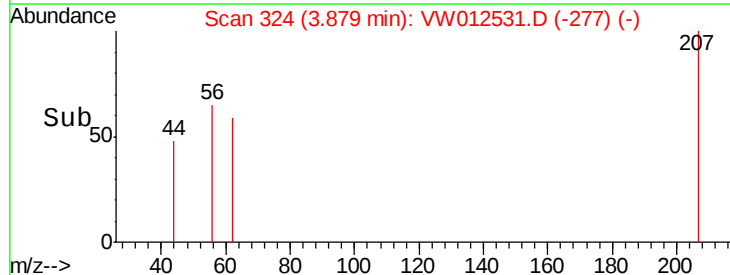
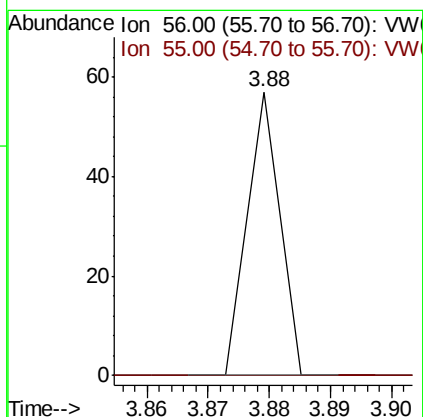
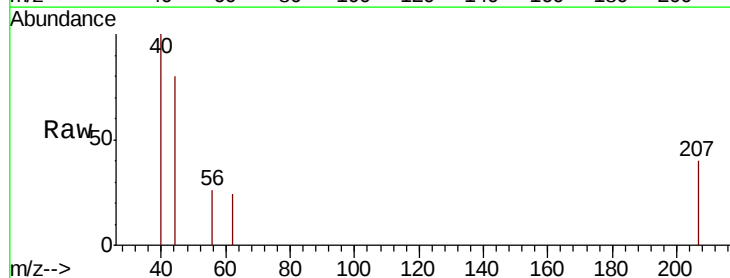
Tgt Ion: 59 Resp: 27
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

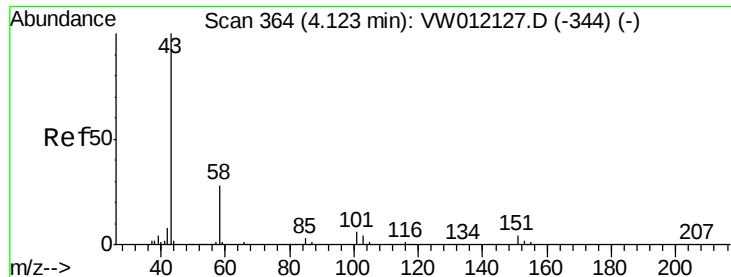


#13

Acrolein
 Concen: 7.843 ug/l
 RT: 3.88 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

Tgt Ion: 56 Resp: 21
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.8 83.8#

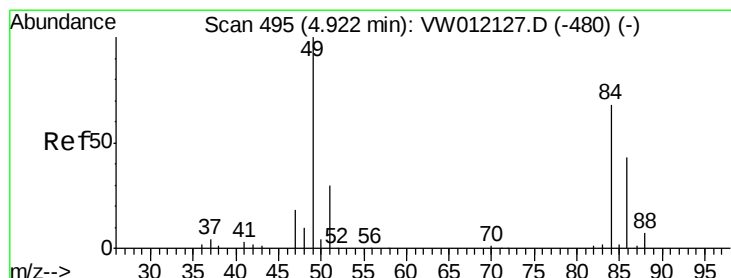
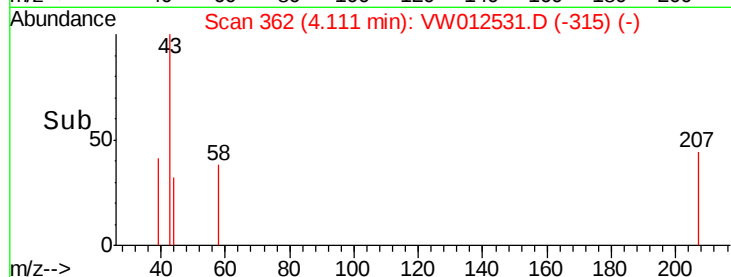
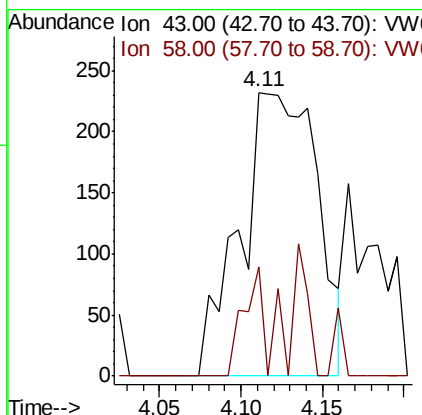
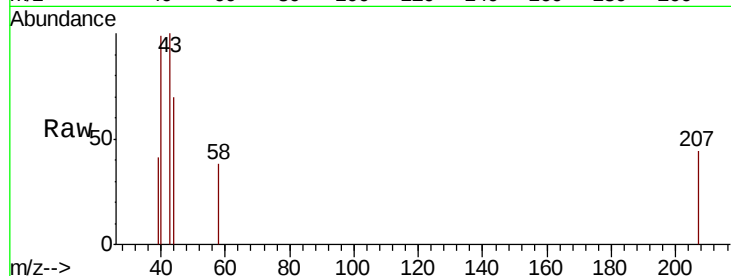




#16
Acetone
Concen: 63.401 ug/l
RT: 4.11 min Scan# 362
Delta R.T. -0.01 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

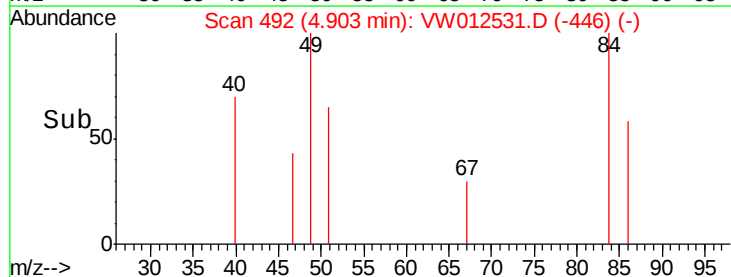
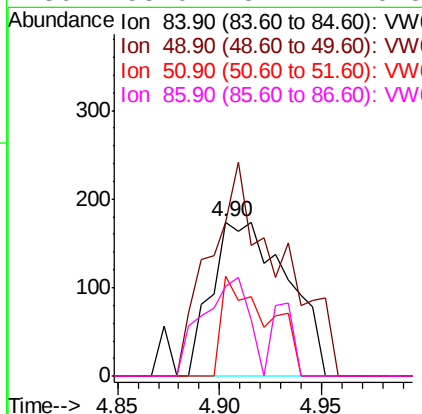
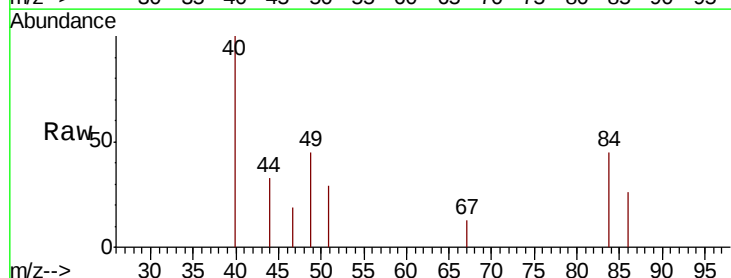
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

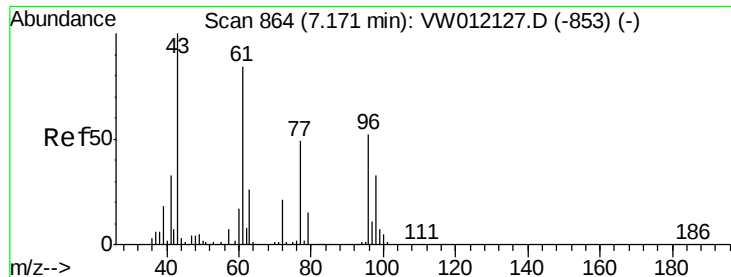
Tgt Ion: 43 Resp: 766
Ion Ratio Lower Upper
43 100
58 38.4 22.4 33.6#



#20
Methylene Chloride
Concen: 9.830 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.02 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion: 84 Resp: 449
Ion Ratio Lower Upper
84 100
49 100.0 117.8 176.8#
51 64.9 35.6 53.4#
86 58.0 51.2 76.8





#25

2-Butanone

Concen: 5.665 ug/l

RT: 7.20 min Scan# 868

Delta R.T. 0.02 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

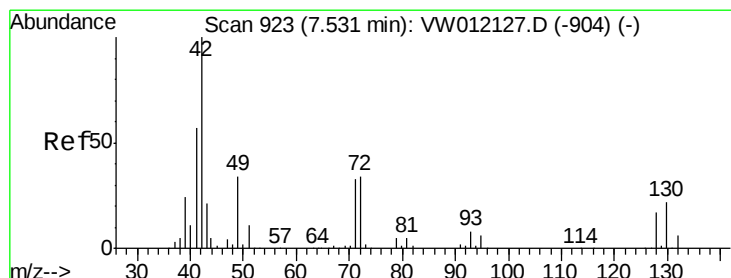
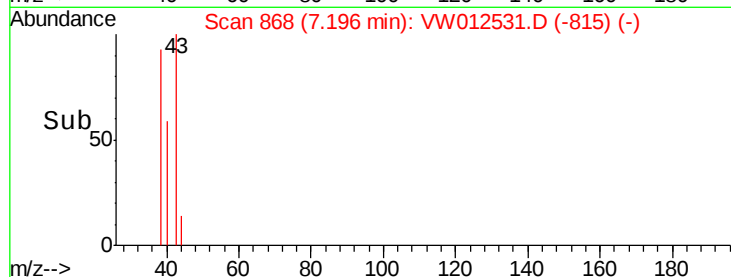
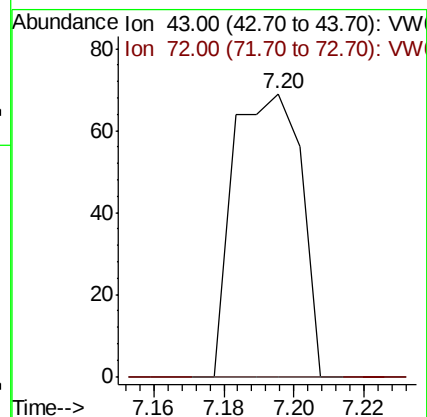
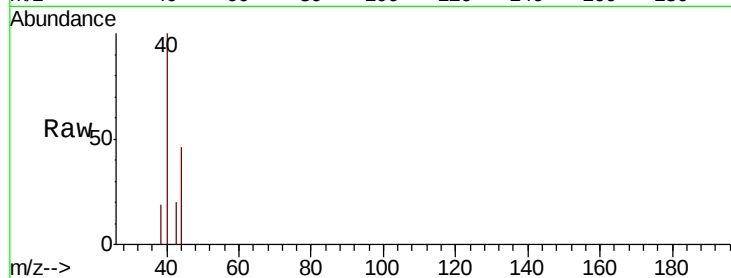
T16-17-C4-(2.25)

Tgt Ion: 43 Resp: 93

Ion Ratio Lower Upper

43 100

72 0.0 16.6 24.8#



#29

Tetrahydrofuran

Concen: 13.706 ug/l

RT: 7.52 min Scan# 921

Delta R.T. -0.01 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

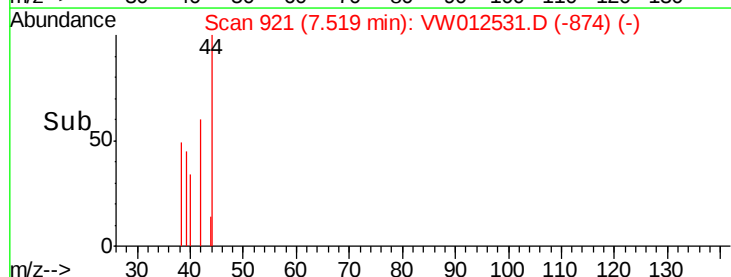
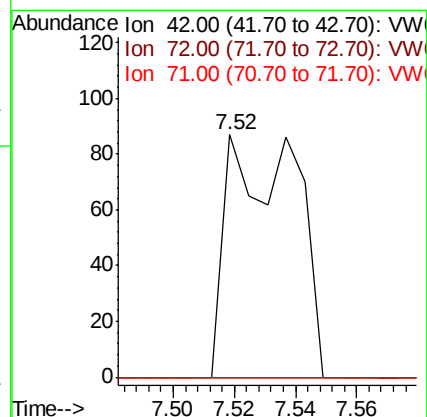
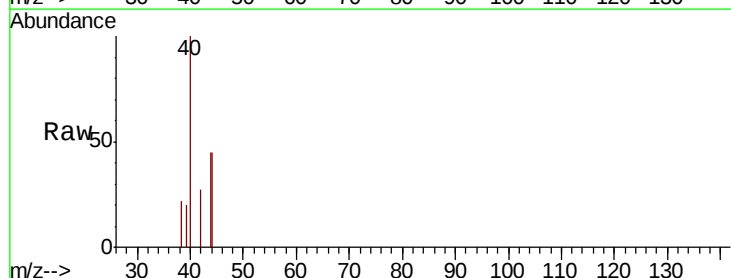
Tgt Ion: 42 Resp: 135

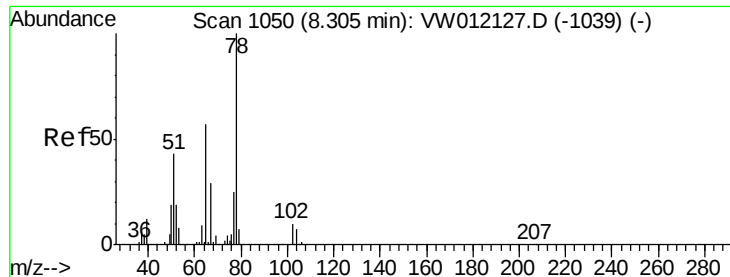
Ion Ratio Lower Upper

42 100

72 0.0 27.3 40.9#

71 0.0 25.5 38.3#

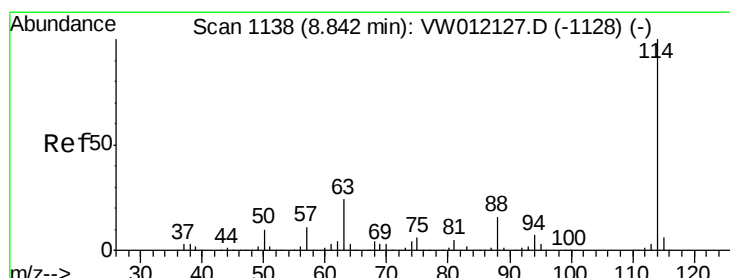
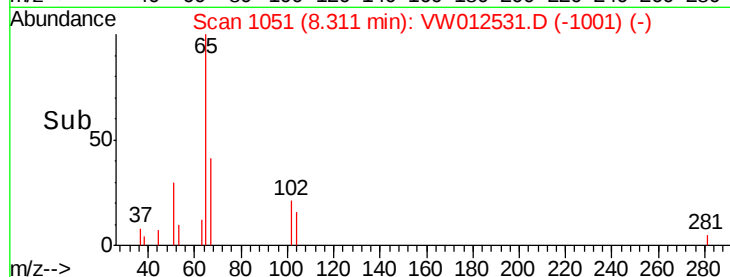
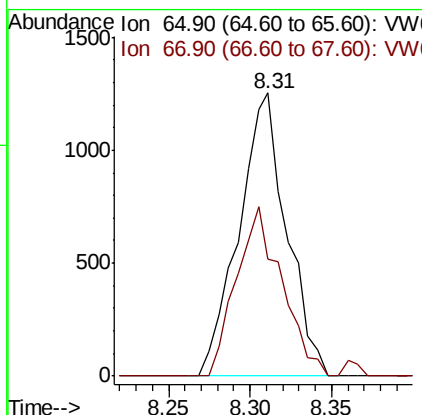
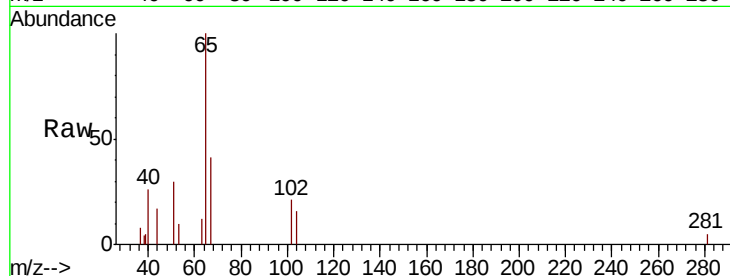




#33
 1,2-Dichloroethane-d4
 Concen: 54.269 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.01 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

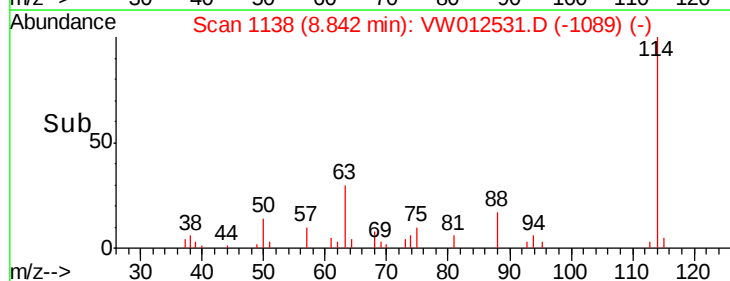
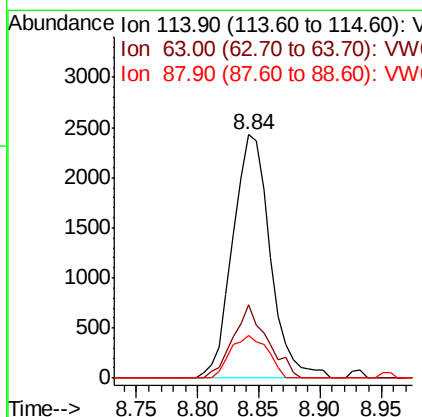
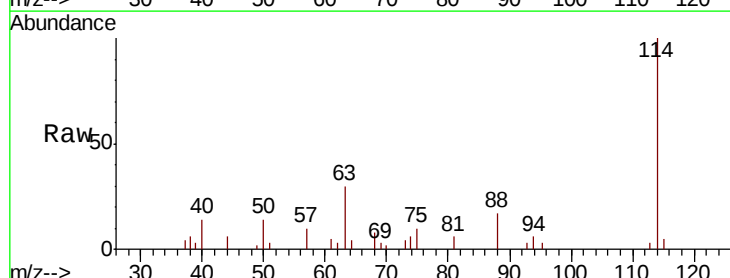
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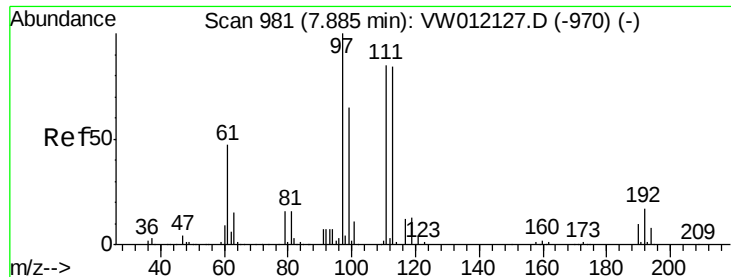
Tgt Ion: 65 Resp: 2565
 Ion Ratio Lower Upper
 65 100
 67 56.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

Tgt Ion: 114 Resp: 5170
 Ion Ratio Lower Upper
 114 100
 63 29.9 0.0 48.6
 88 17.3 0.0 32.2





#35

Dibromofluoromethane

Concen: 67.855 ug/l

RT: 7.89 min Scan# 982

Delta R.T. 0.01 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

T16-17-C4-(2.25)

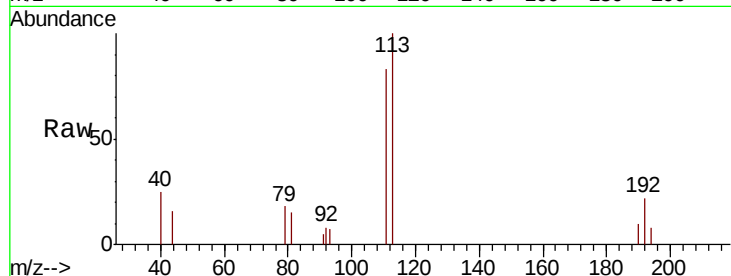
Tgt Ion:113 Resp: 2094

Ion Ratio Lower Upper

113 100

111 100.2 82.7 124.1

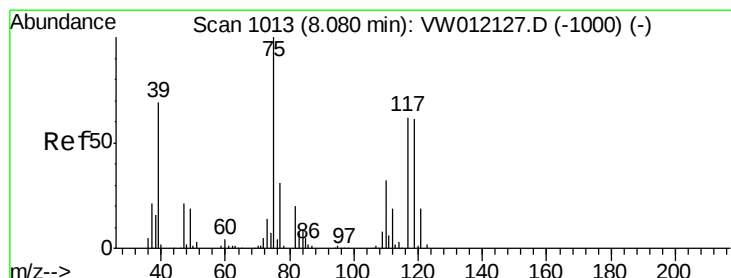
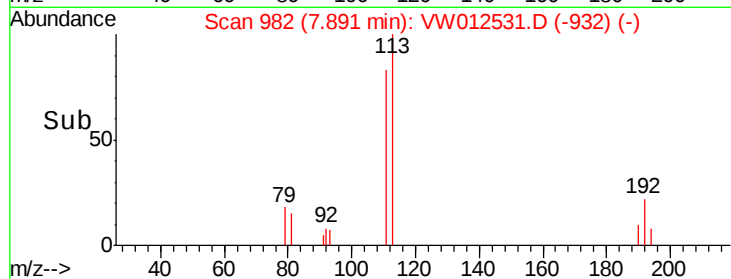
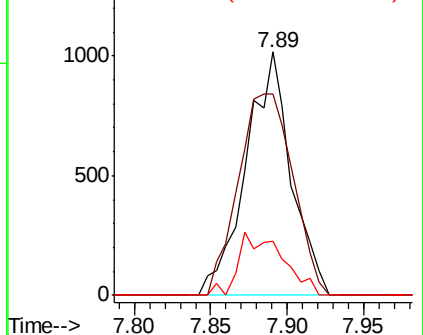
192 25.2 16.2 24.2#



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: 7.562 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

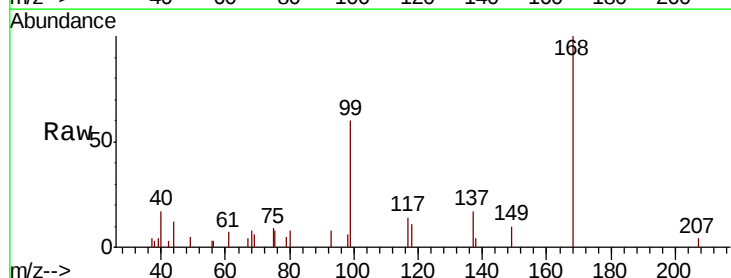
Tgt Ion: 75 Resp: 404

Ion Ratio Lower Upper

75 100

110 0.0 15.6 46.8#

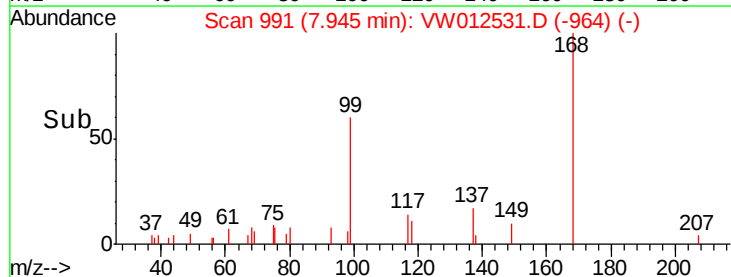
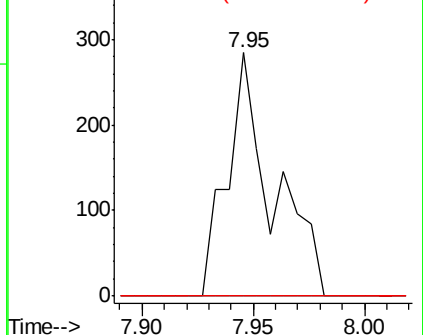
77 0.0 24.6 36.8#

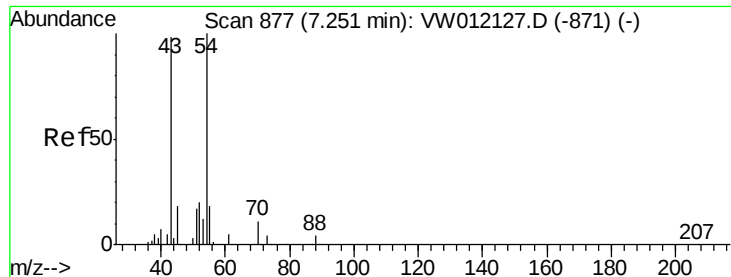


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

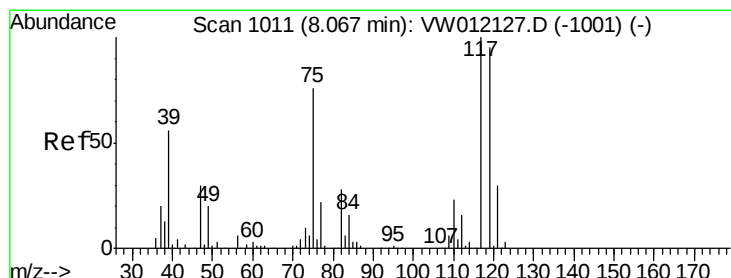
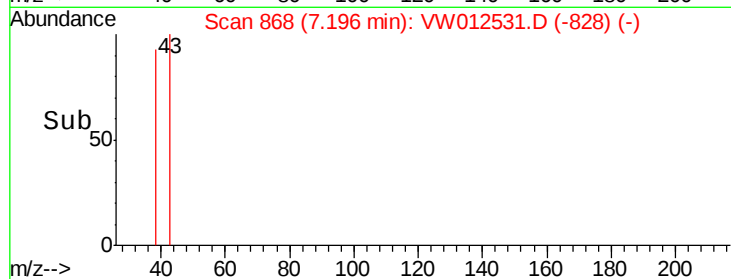
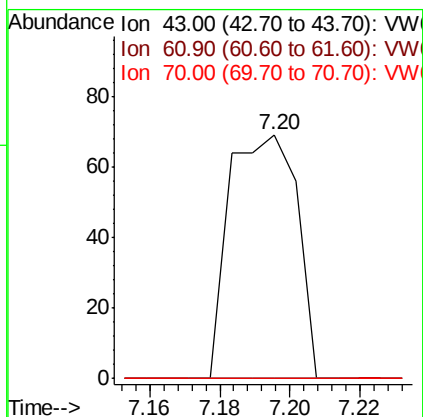
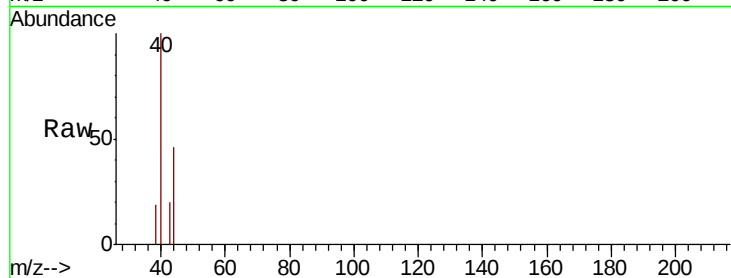




#37
Ethyl Acetate
Concen: 3.177 ug/l
RT: 7.20 min Scan# 868
Delta R.T. -0.06 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

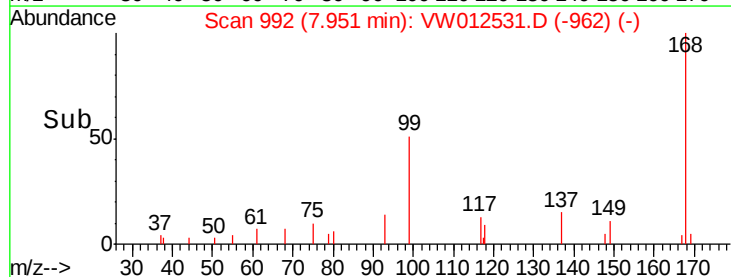
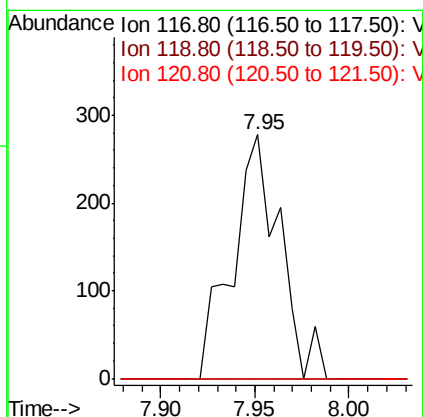
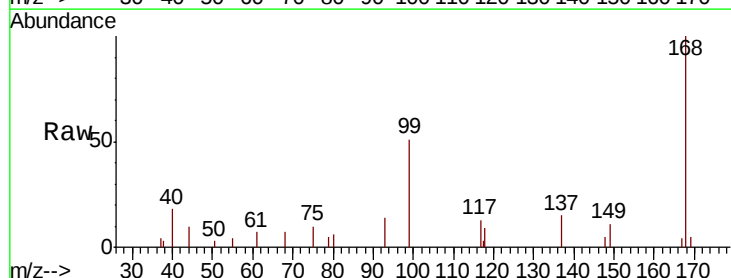
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

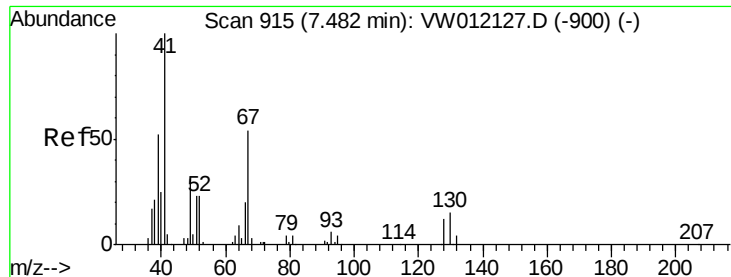
Tgt Ion: 43 Resp: 93
Ion Ratio Lower Upper
43 100
61 0.0 9.2 13.8#
70 0.0 6.9 10.3#



#38
Carbon Tetrachloride
Concen: 10.488 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion: 117 Resp: 485
Ion Ratio Lower Upper
117 100
119 0.0 76.2 114.2#
121 0.0 23.8 35.8#

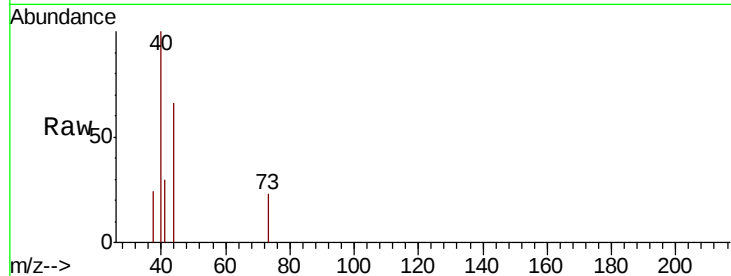




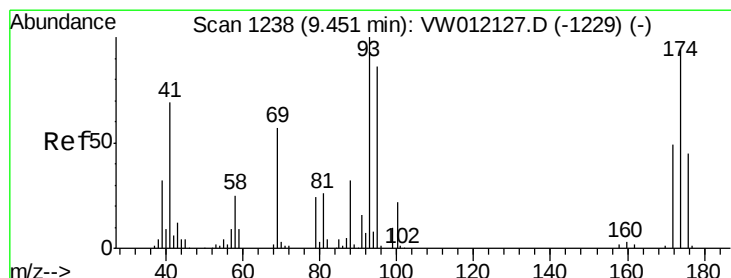
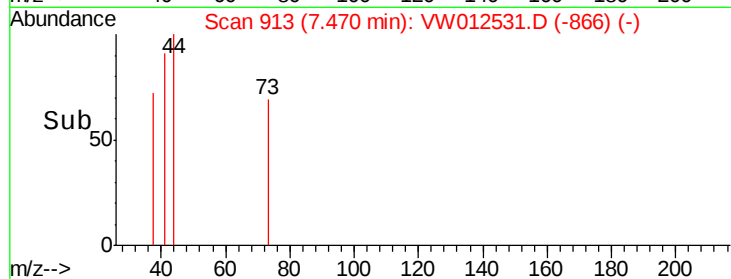
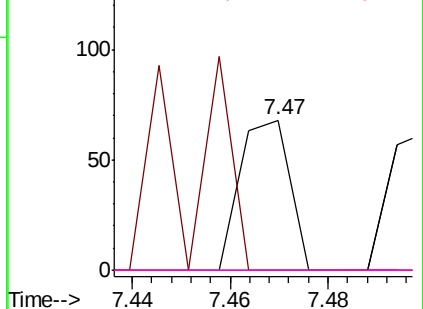
#41
Methacrylonitrile
Concen: 2.790 ug/l
RT: 7.47 min Scan# 913
Delta R.T. -0.01 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

Tgt Ion:	41	Resp:	48
Ion	Ratio	Lower	Upper
41	100		
39	143.8	45.8	68.8#
67	0.0	46.2	69.4#
52	0.0	21.0	31.6#

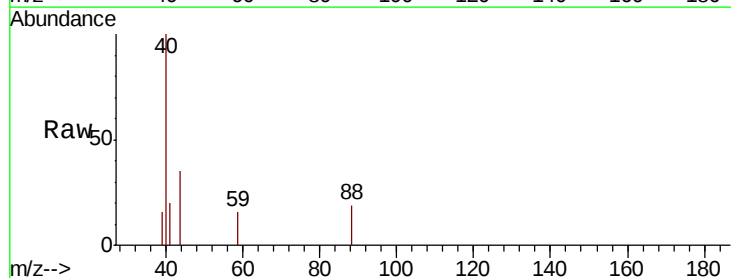


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

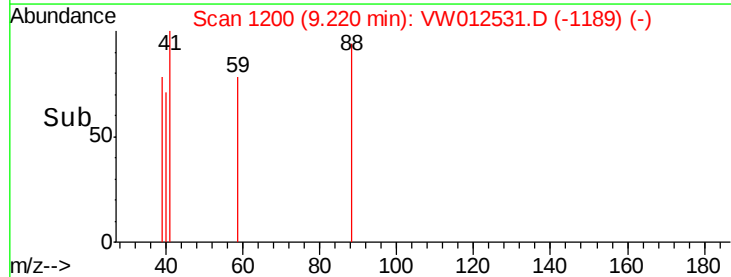
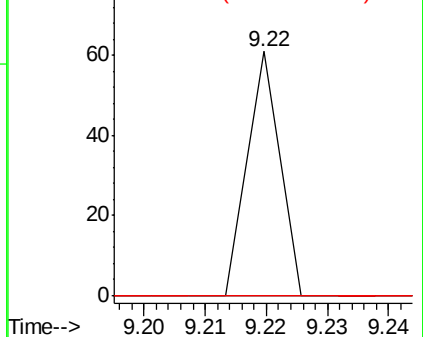


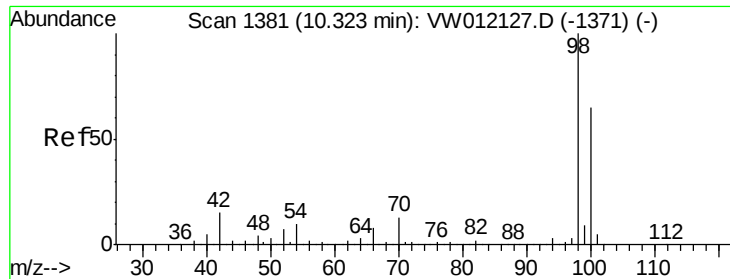
#49
1,4-Dioxane
Concen: 82.266 ug/l
RT: 9.22 min Scan# 1200
Delta R.T. -0.23 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion:	88	Resp:	22
Ion	Ratio	Lower	Upper
88	100		
43	0.0	32.9	49.3#
58	0.0	71.0	106.4#



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

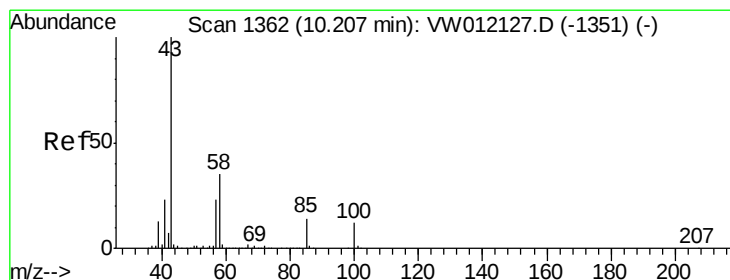
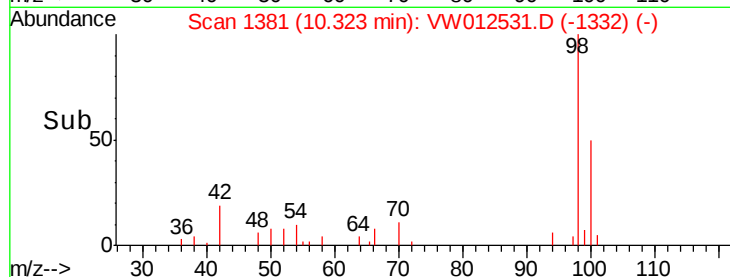
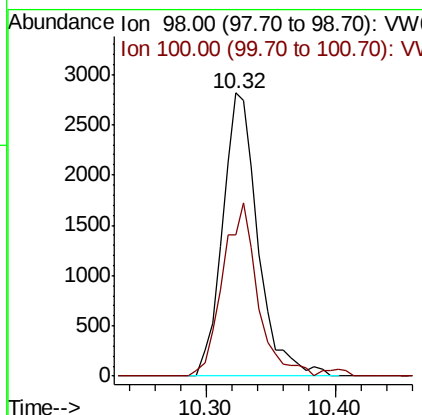
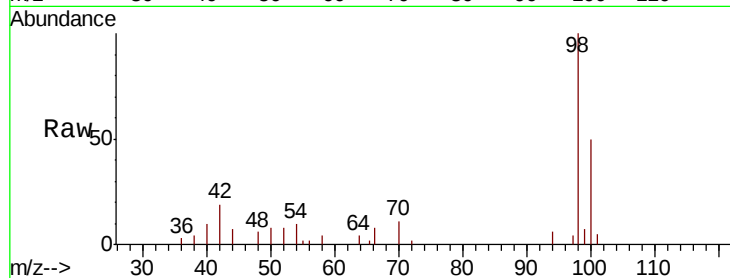




#50
Toluene-d8
Concen: 43.084 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

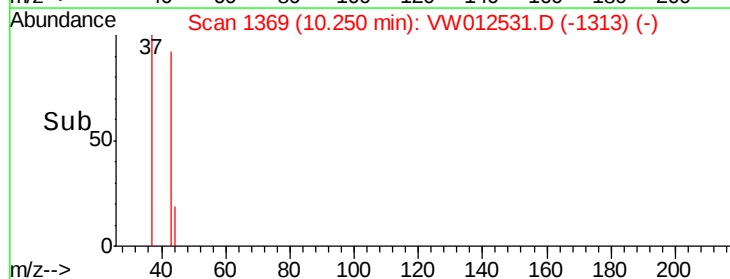
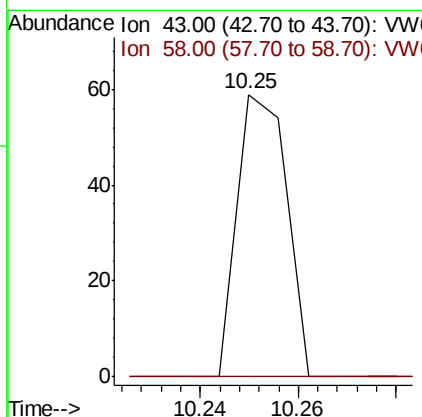
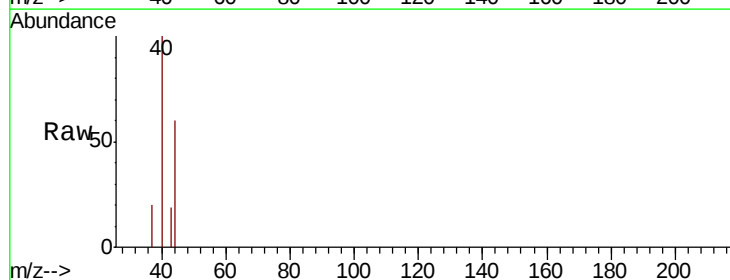
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

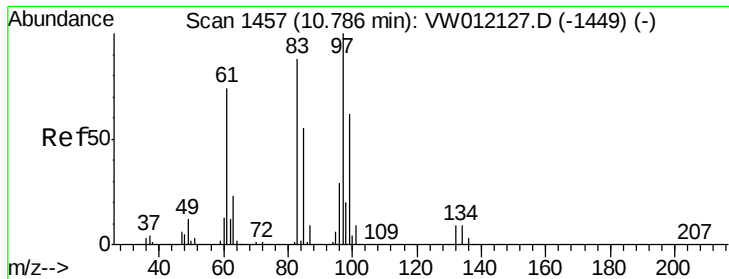
Tgt Ion: 98 Resp: 5391
Ion Ratio Lower Upper
98 100
100 60.8 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 1.486 ug/l
RT: 10.25 min Scan# 1369
Delta R.T. 0.04 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion: 43 Resp: 41
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.2#

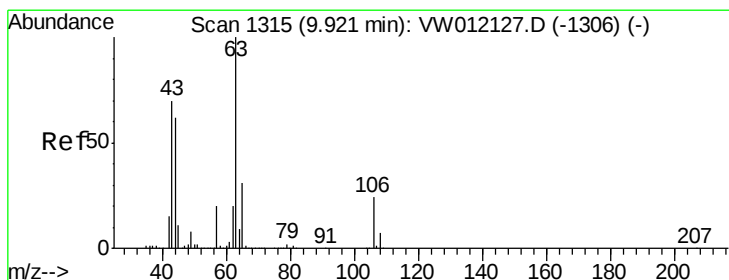
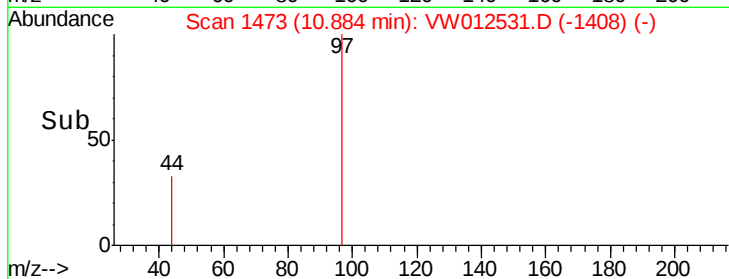
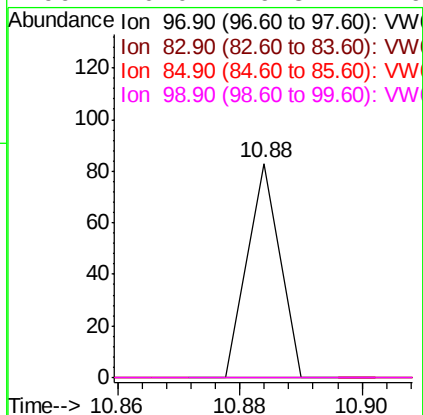
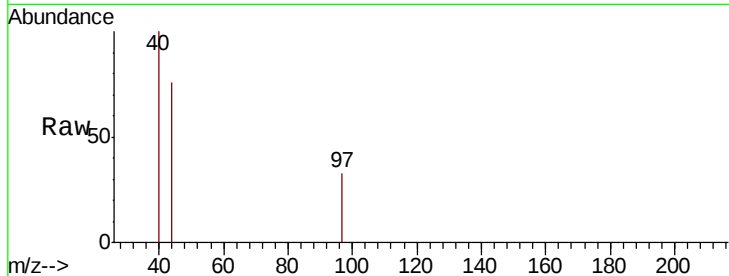




#55
 1,1,2-Trichloroethane
 Concen: 1.214 ug/l
 RT: 10.88 min Scan# 1473
 Delta R.T. 0.10 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

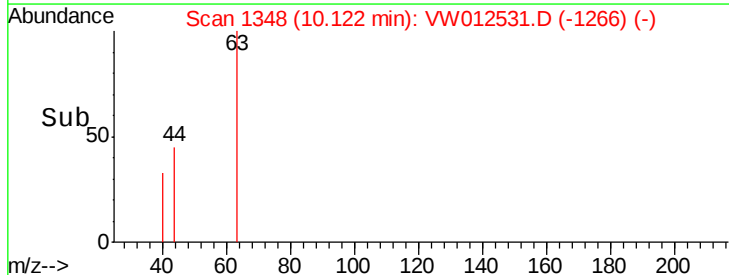
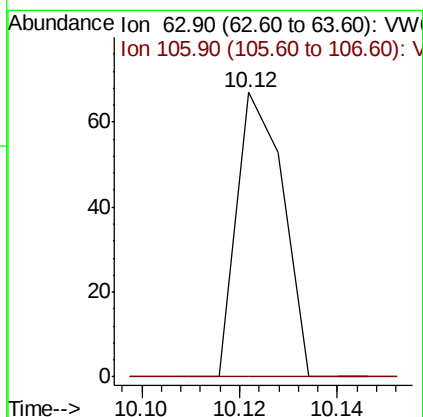
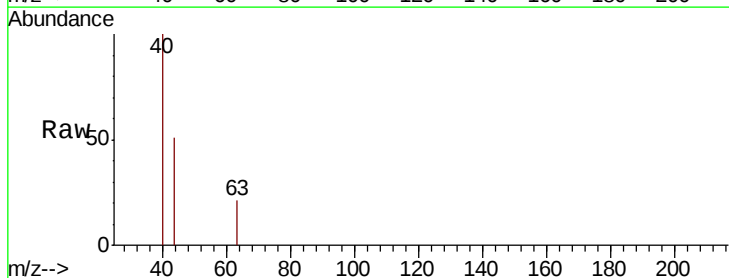
Instrument :
 MSVOA_W
 ClientSampleId :
 T16-17-C4-(2.25)

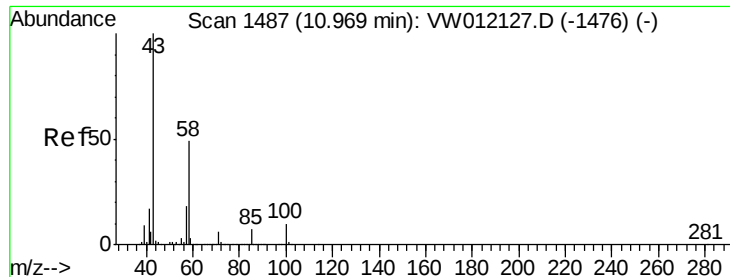
Tgt Ion: 97 Resp: 30
 Ion Ratio Lower Upper
 97 100
 83 0.0 70.8 106.2#
 85 0.0 43.8 65.8#
 99 0.0 49.8 74.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 2.383 ug/l
 RT: 10.12 min Scan# 1348
 Delta R.T. 0.20 min
 Lab File: VW012531.D
 Acq: 03 Sep 2019 06:15

Tgt Ion: 63 Resp: 44
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.8 29.8#





#59

2-Hexanone

Concen: 2.203 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

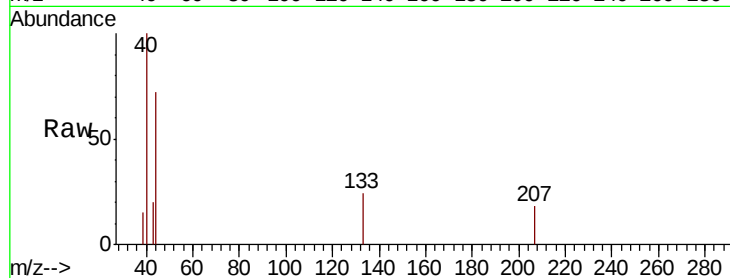
T16-17-C4-(2.25)

Tgt Ion: 43 Resp: 43

Ion Ratio Lower Upper

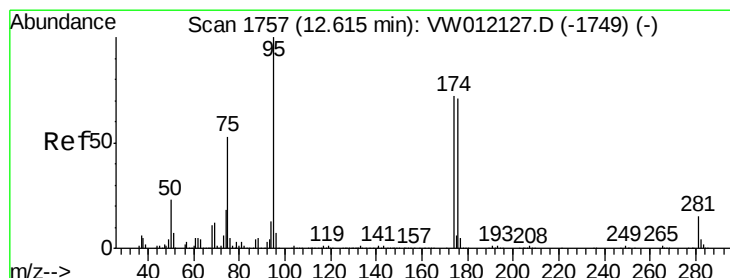
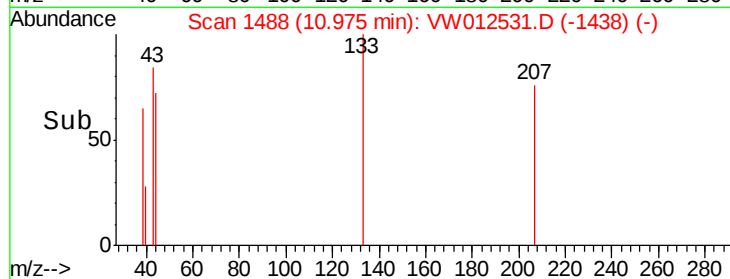
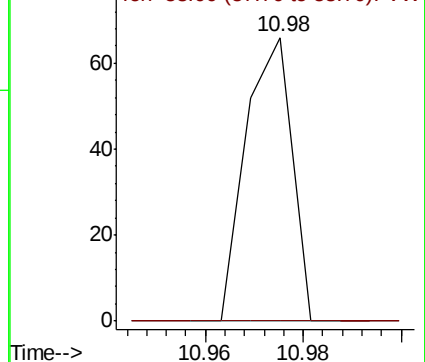
43 100

58 0.0 24.3 72.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#62

4-Bromofluorobenzene

Concen: 12.424 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

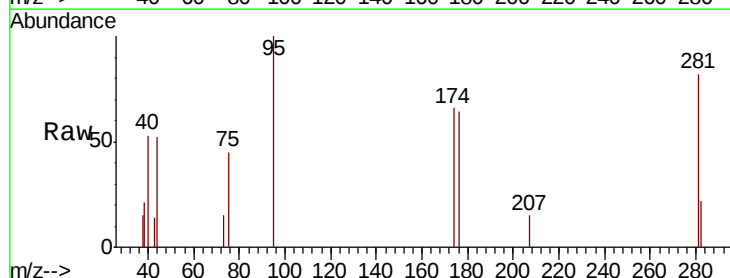
Tgt Ion: 95 Resp: 548

Ion Ratio Lower Upper

95 100

174 85.4 0.0 150.8

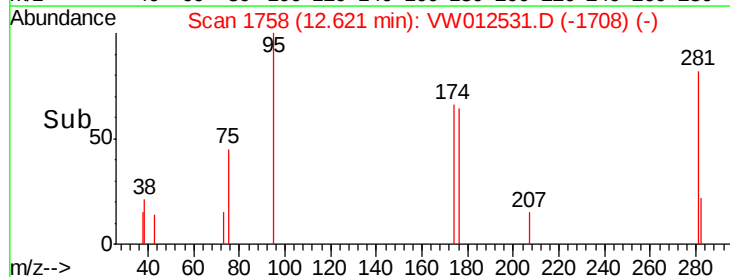
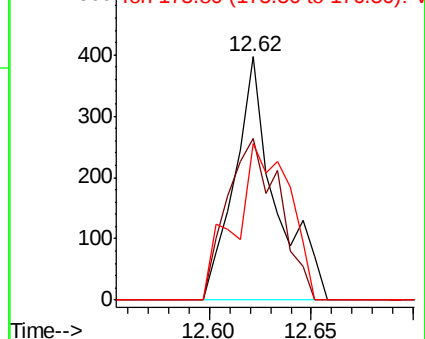
176 87.0 0.0 148.6

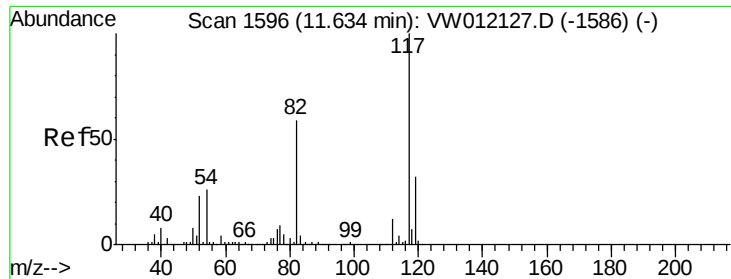


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

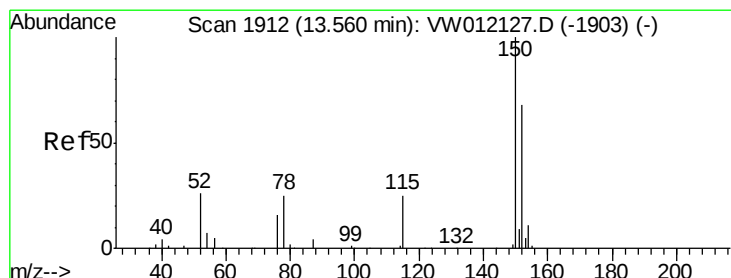
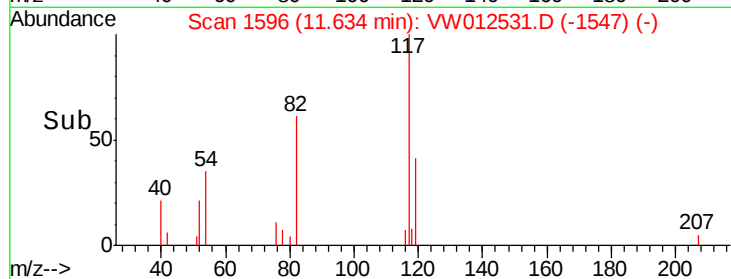
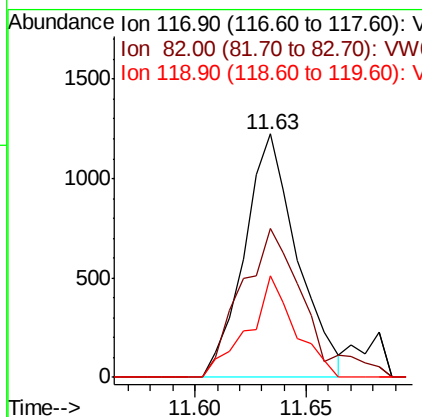
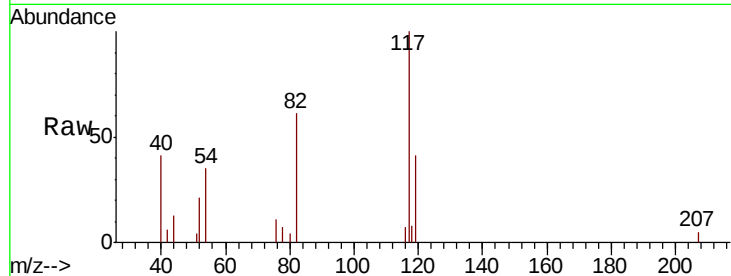




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

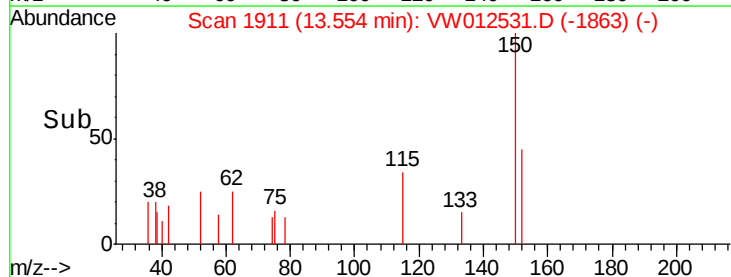
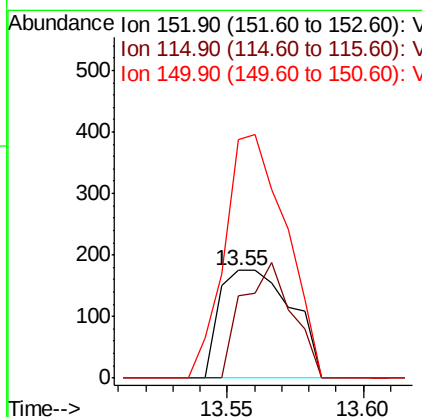
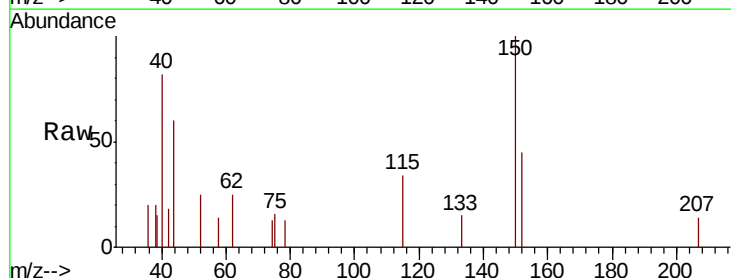
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

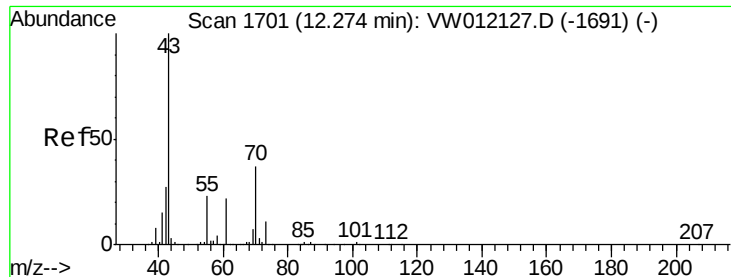
Tgt Ion:117 Resp: 2020
Ion Ratio Lower Upper
117 100
82 60.9 47.4 71.2
119 41.5 25.4 38.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion:152 Resp: 321
Ion Ratio Lower Upper
152 100
115 73.8 30.1 90.3
150 193.1 0.0 345.8

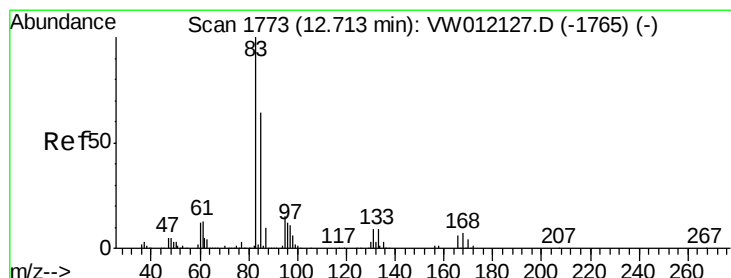
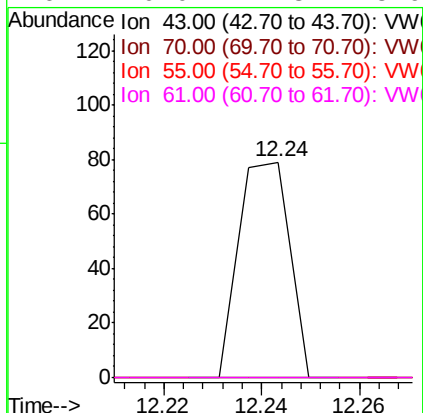
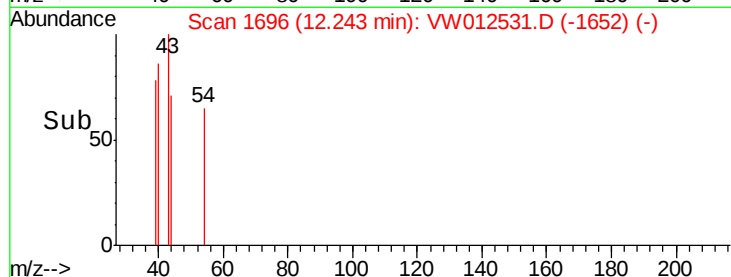
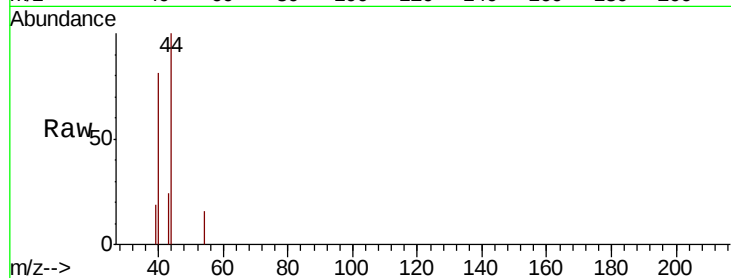




#74
N-ethyl acetate
Concen: 7.844 ug/l
RT: 12.24 min Scan# 1696
Delta R.T. -0.03 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

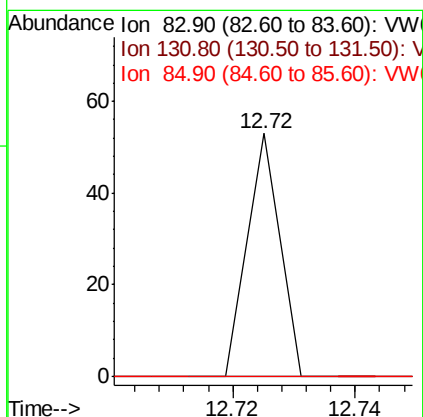
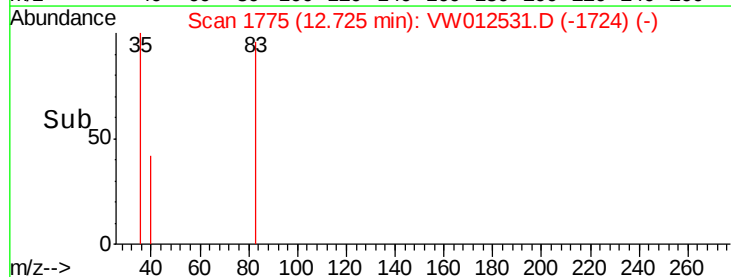
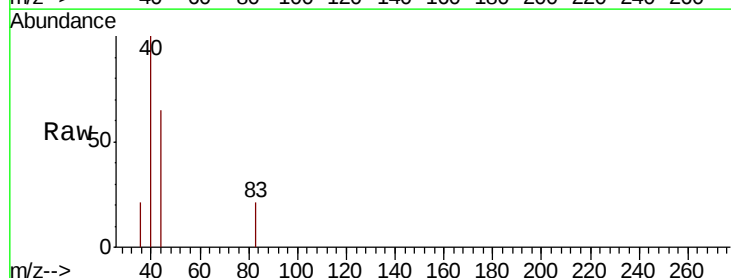
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C4-(2.25)

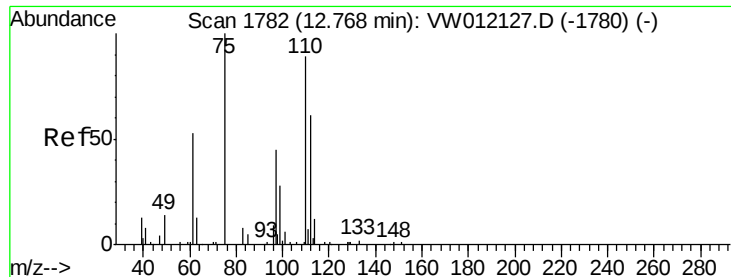
Tgt Ion:	43	Resp:	57
Ion	Ratio	Lower	Upper
43	100		
70	0.0	28.6	43.0#
55	0.0	17.8	26.6#
61	0.0	17.3	25.9#



#75
1,1,2,2-Tetrachloroethane
Concen: 4.309 ug/l
RT: 12.72 min Scan# 1775
Delta R.T. 0.01 min
Lab File: VW012531.D
Acq: 03 Sep 2019 06:15

Tgt Ion:	83	Resp:	19
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: 92.761 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

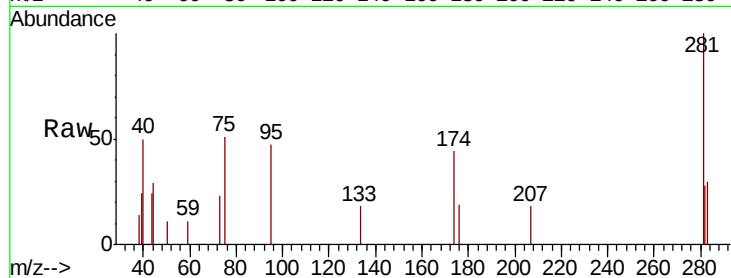
T16-17-C4-(2.25)

Tgt Ion: 75 Resp: 290

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

12.62

250

200

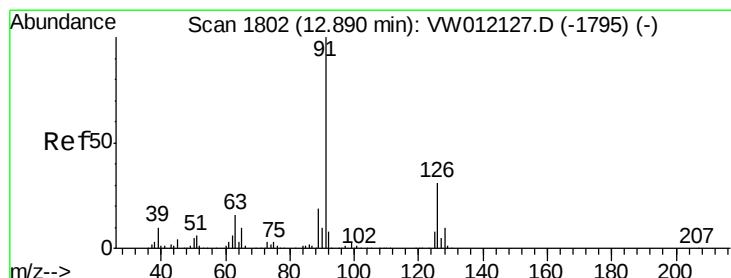
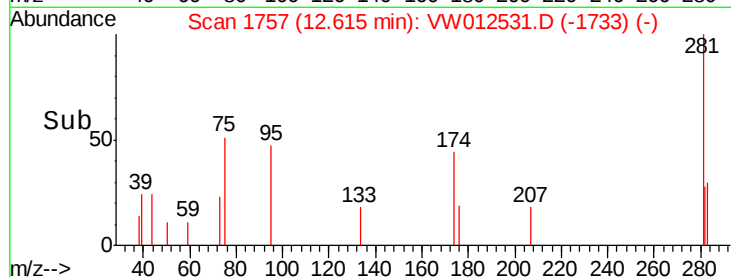
150

100

50

0

Time-->



#79

2-Chlorotoluene

Concen: 1.140 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.19 min

Lab File: VW012531.D

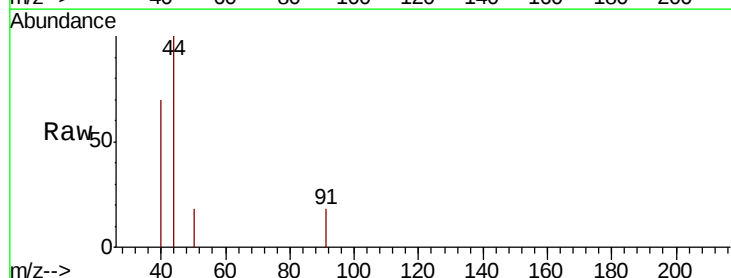
Acq: 03 Sep 2019 06:15

Tgt Ion: 91 Resp: 19

Ion Ratio Lower Upper

91 100

126 0.0 15.7 47.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V

12.70

60

50

40

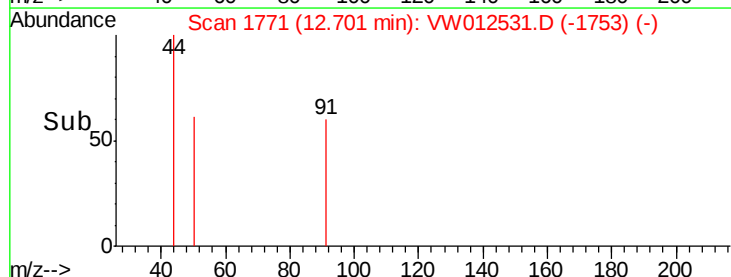
30

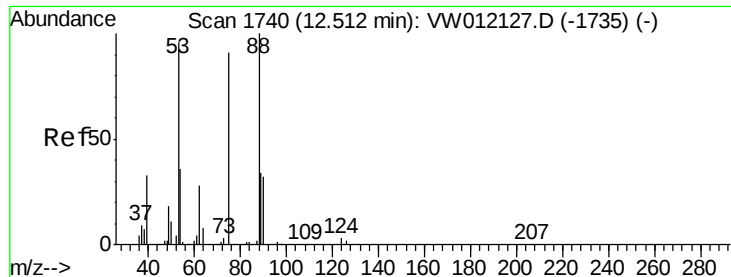
20

10

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 203.382 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

Instrument :

MSVOA_W

ClientSampleId :

T16-17-C4-(2.25)

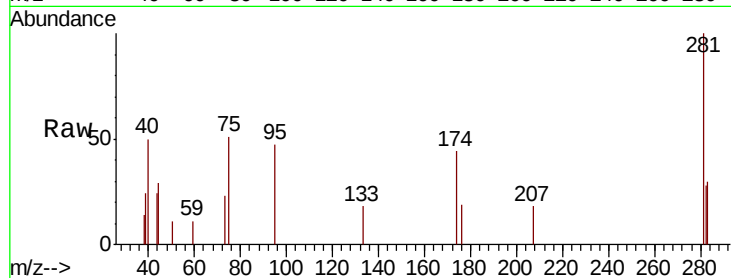
Tgt Ion: 75 Resp: 290

Ion Ratio Lower Upper

75 100

53 0.0 89.4 134.0#

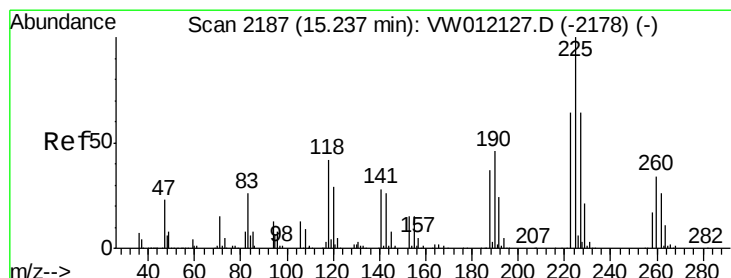
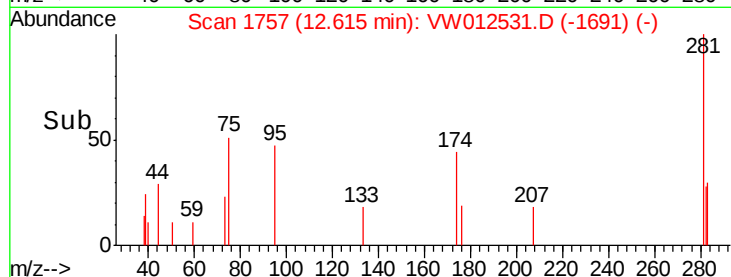
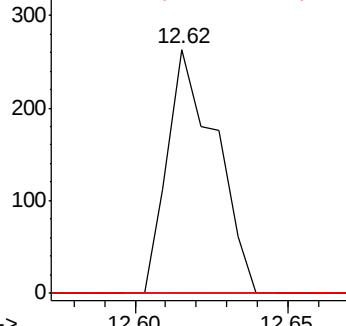
89 0.0 34.5 51.7#



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



#94

Hexachlorobutadiene

Concen: 5.154 ug/l

RT: 15.24 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VW012531.D

Acq: 03 Sep 2019 06:15

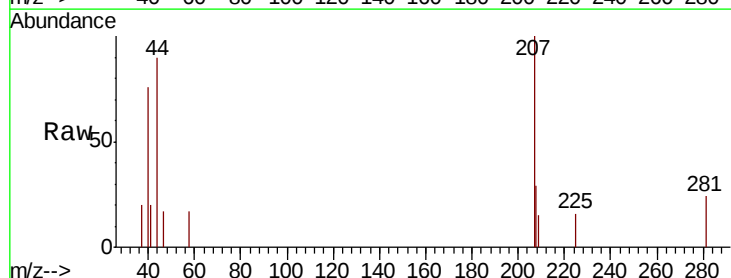
Tgt Ion: 225 Resp: 21

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.8#

227 0.0 32.9 98.6#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

