

Data File : VW012360.D
Acq On : 30 Aug 2019 19:35
Operator : SY/VA
Sample : K4493-21
Misc : 4.04G/5ML/MSVOA_W/SOIL
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-G4-(0)

Quant Time: Aug 31 03:06:36 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	202033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	333412	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	258284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	84044	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	130694	54.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.84%	
35) Dibromofluoromethane	7.88	113	103999	52.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.52%	
50) Toluene-d8	10.32	98	400717	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
62) 4-Bromofluorobenzene	12.62	95	110829	38.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.92%	

Target Compounds

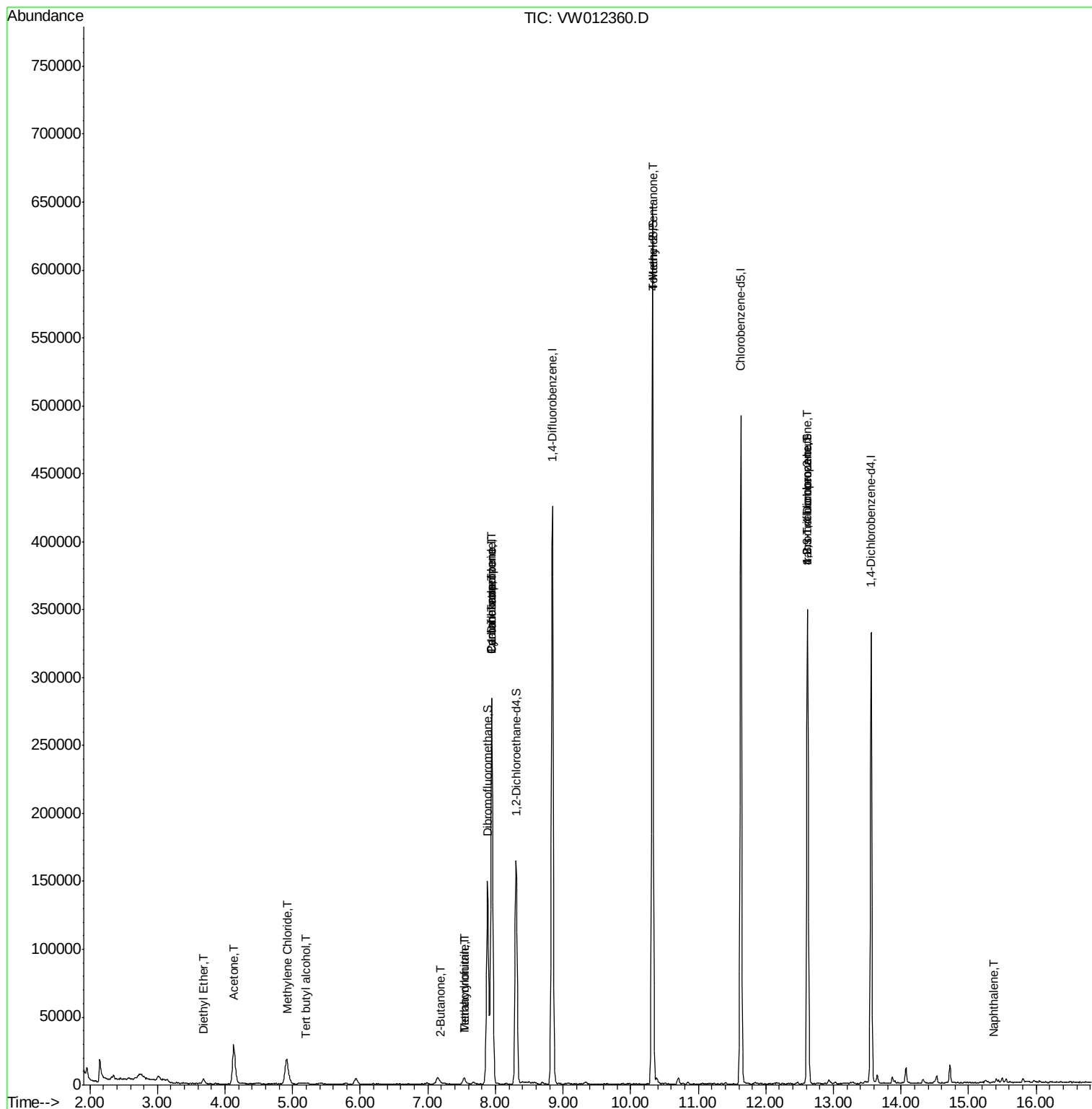
						Qvalue
8) Diethyl Ether	3.67	74	1647	1.465	ug/l	78
11) Tert butyl alcohol	5.20	59	695	4.809	ug/l #	71
16) Acetone	4.13	43	55119	89.782	ug/l	98
20) Methylene Chloride	4.91	84	13077	5.635	ug/l	98
25) 2-Butanone	7.19	43	1993	2.389	ug/l #	86
29) Tetrahydrofuran	7.54	42	4221	8.433	ug/l	99
31) Cyclohexane	7.94	56	5504	1.272	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	17718	5.142	ug/l #	51
38) Carbon Tetrachloride	7.95	117	20834	6.986	ug/l #	18
41) Methacrylonitrile	7.54	41	2675	2.411	ug/l #	54
51) 4-Methyl-2-Pentanone	10.32	43	2660	1.495	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	59714	72.953	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	59714	159.952	ug/l #	6
95) Naphthalene	15.37	128	425	4.444	ug/l #	69

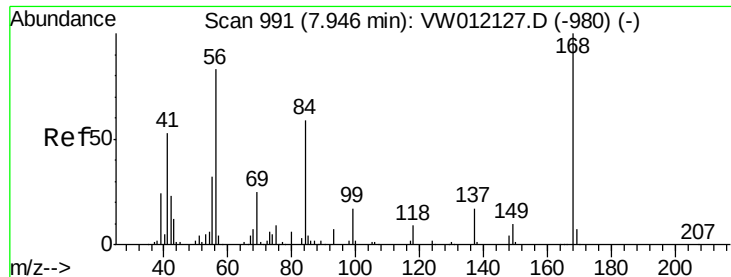
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

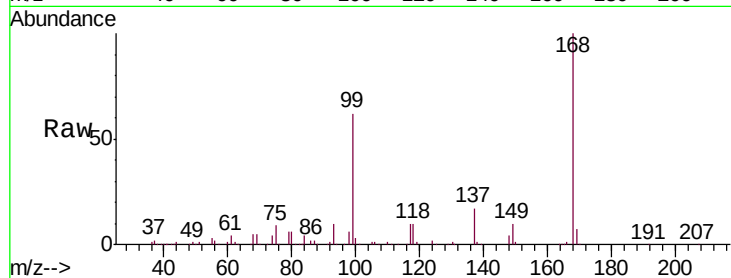
T9-12-13-G4-(0)

Tgt Ion:168 Resp: 202033

Ion Ratio Lower Upper

168 100

99 61.6 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

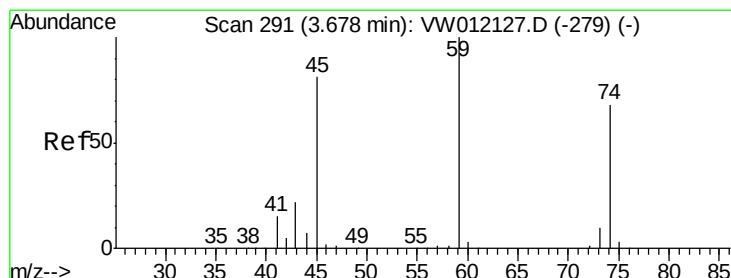
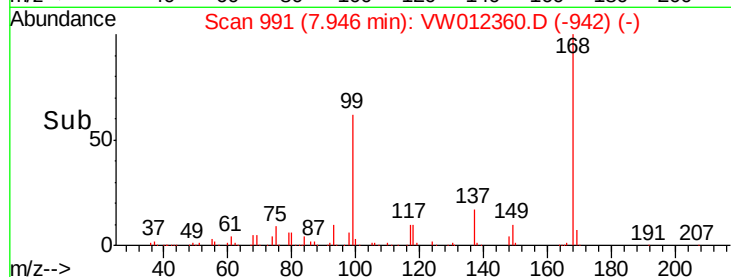
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.465 ug/l

RT: 3.67 min Scan# 290

Delta R.T. -0.01 min

Lab File: VW012360.D

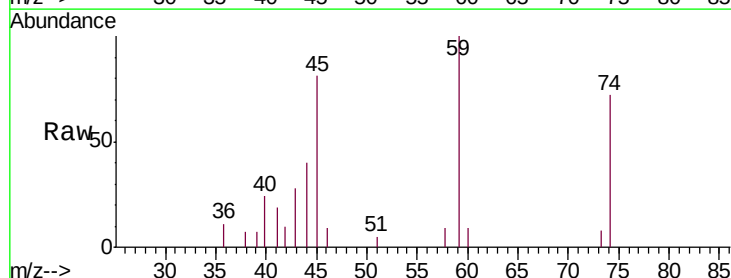
Acq: 30 Aug 2019 19:35

Tgt Ion: 74 Resp: 1647

Ion Ratio Lower Upper

74 100

45 142.7 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.67

1000

800

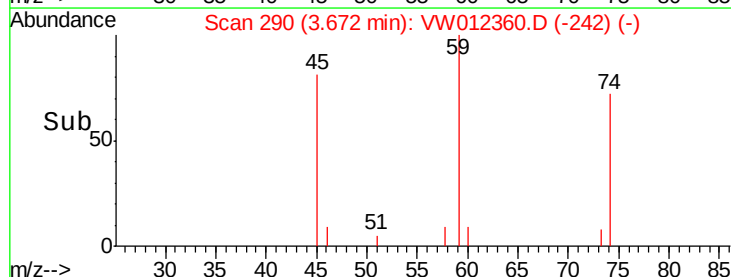
600

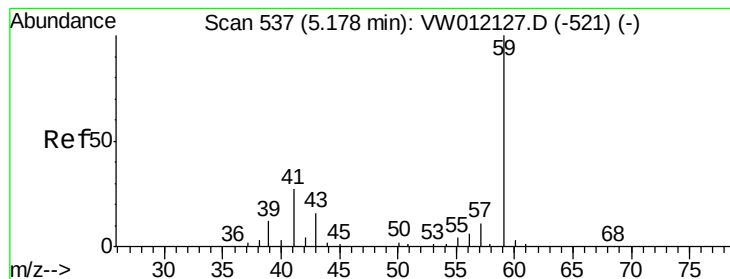
400

200

0

Time-->



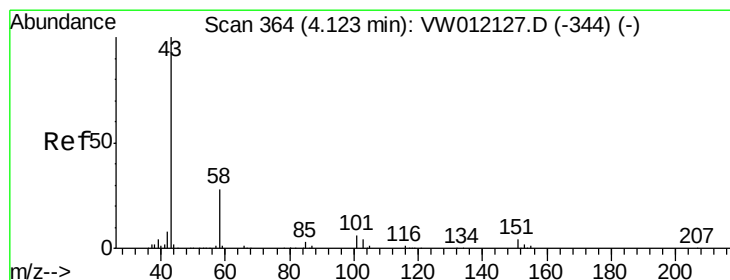
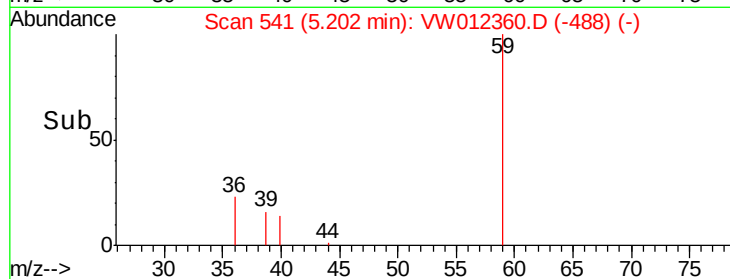
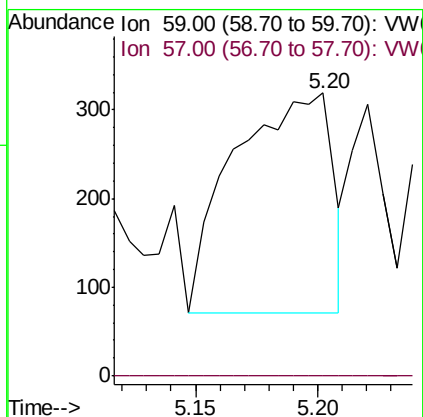
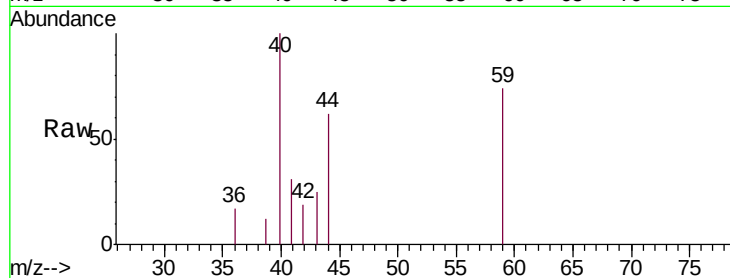


#11

Tert butyl alcohol
Concen: 4.809 ug/l
RT: 5.20 min Scan# 541
Delta R.T. 0.02 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-G4-(0)

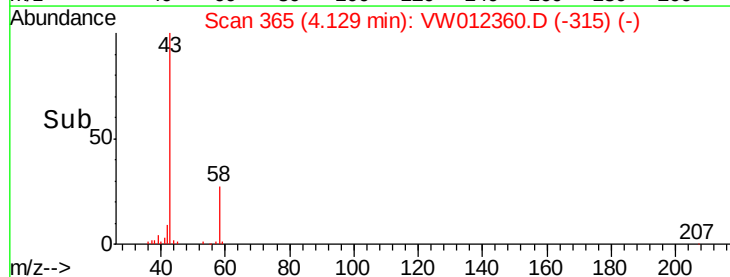
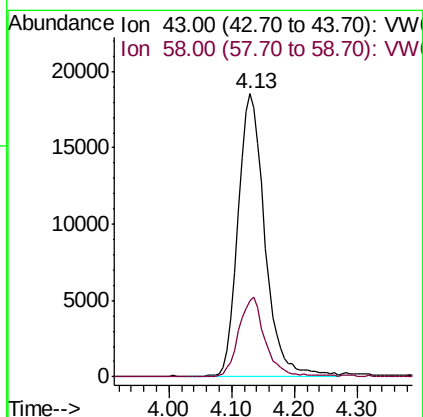
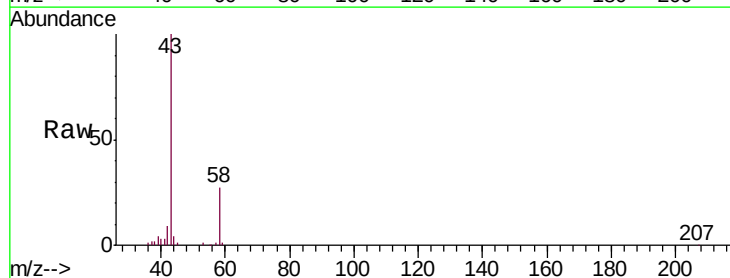
Tgt Ion: 59 Resp: 695
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

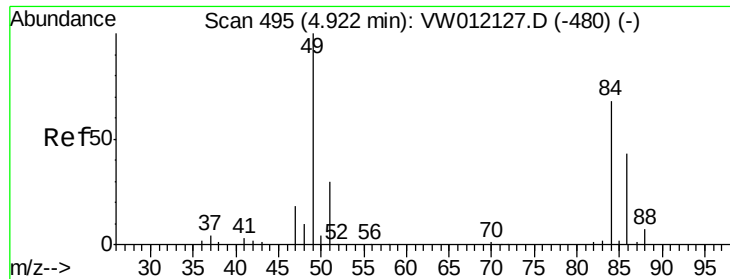


#16

Acetone
Concen: 89.782 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.01 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Tgt Ion: 43 Resp: 55119
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6

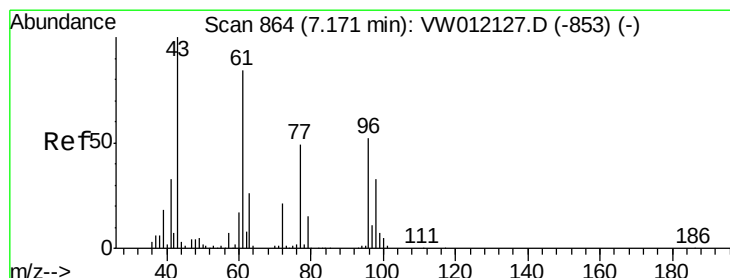
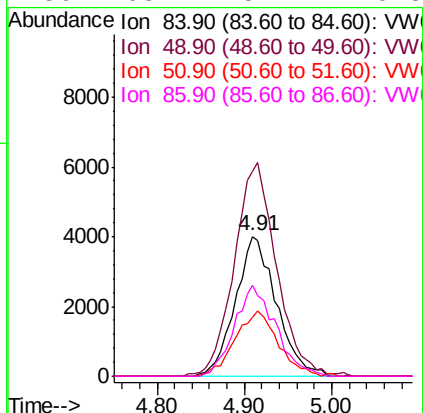
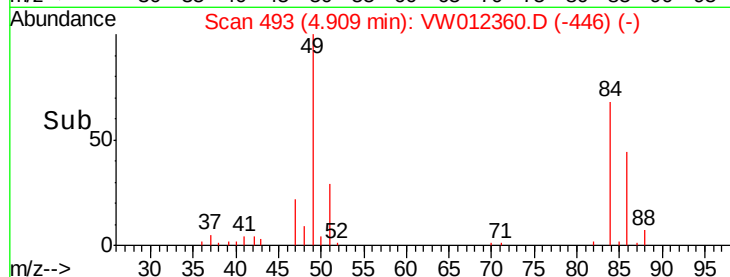
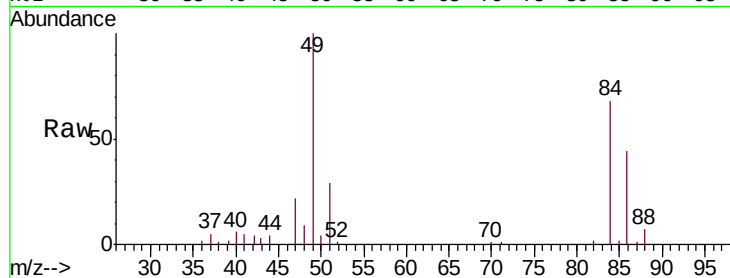




#20
Methylene Chloride
Concen: 5.635 ug/l
RT: 4.91 min Scan# 493
Delta R.T. -0.01 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

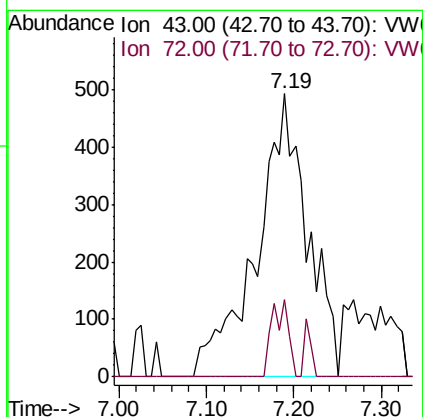
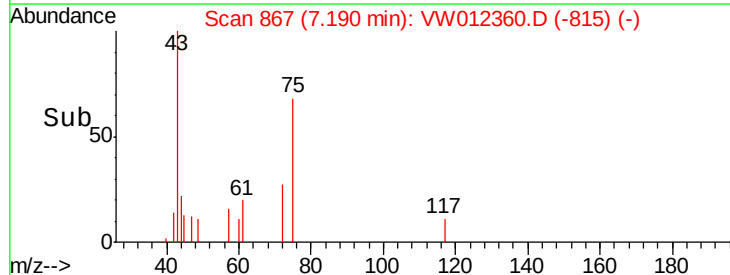
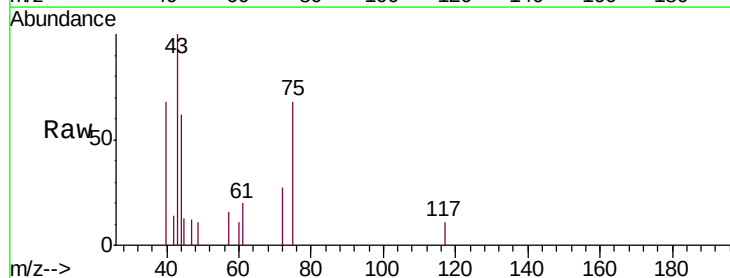
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-G4-(0)

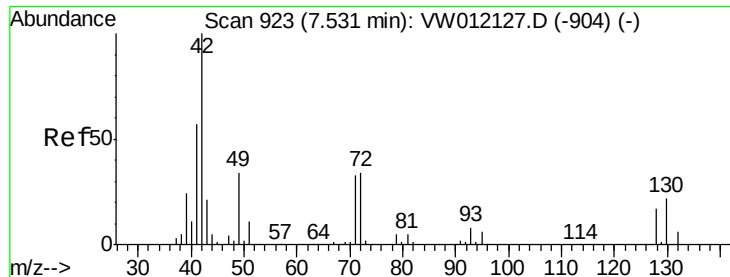
Tgt Ion:	84	Resp:	13077
Ion	Ratio	Lower	Upper
84	100		
49	145.5	117.8	176.8
51	42.5	35.6	53.4
86	65.1	51.2	76.8



#25
2-Butanone
Concen: 2.389 ug/l
RT: 7.19 min Scan# 867
Delta R.T. 0.02 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Tgt Ion:	43	Resp:	1993
Ion	Ratio	Lower	Upper
43	100		
72	27.4	16.6	24.8#





#29

Tetrahydrofuran

Concen: 8.433 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-G4-(0)

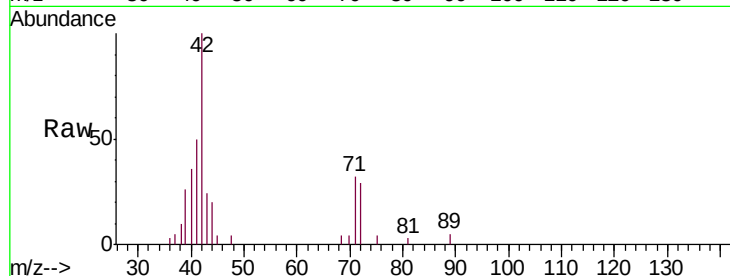
Tgt Ion: 42 Resp: 4221

Ion Ratio Lower Upper

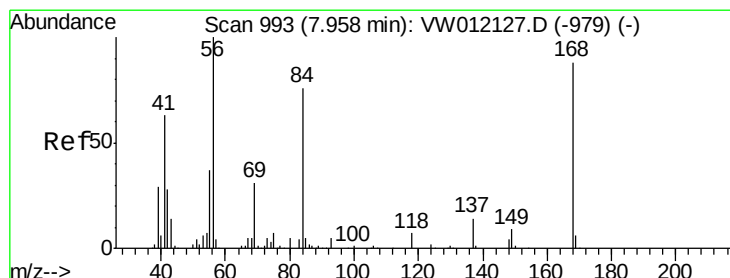
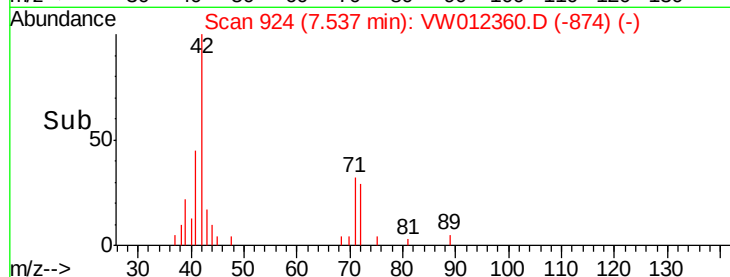
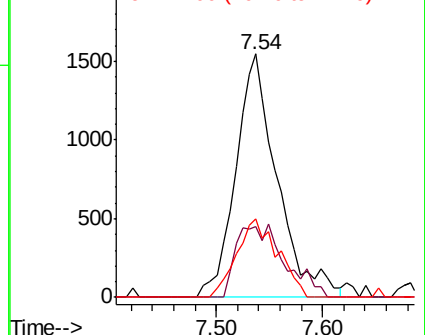
42 100

72 34.9 27.3 40.9

71 32.0 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: 1.272 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

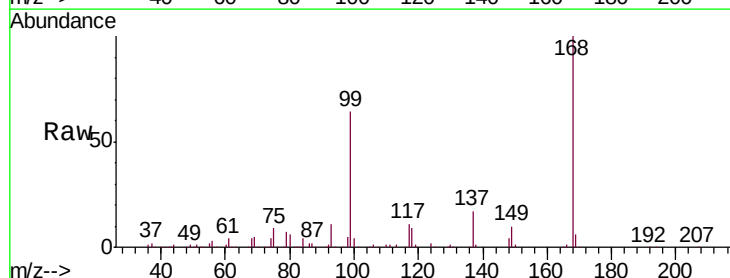
Tgt Ion: 56 Resp: 5504

Ion Ratio Lower Upper

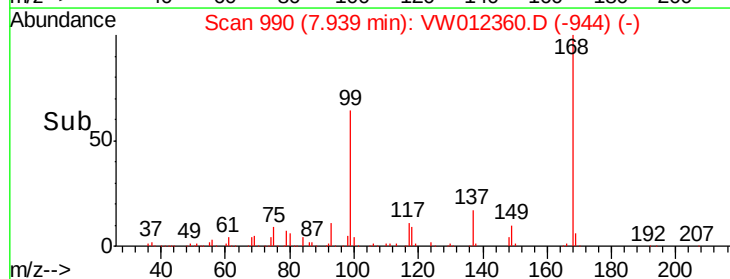
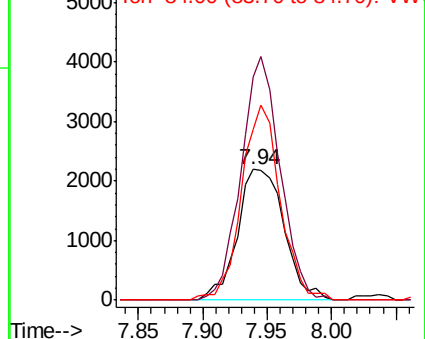
56 100

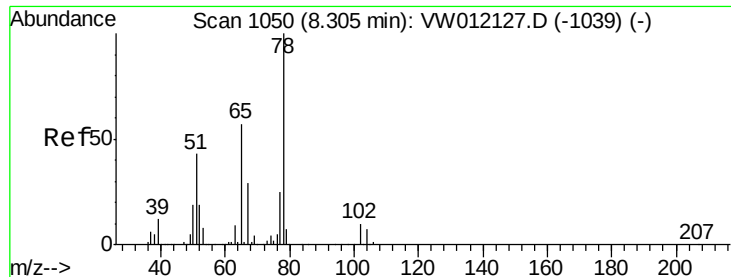
69 170.9 24.9 37.3#

84 130.8 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: 54.418 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

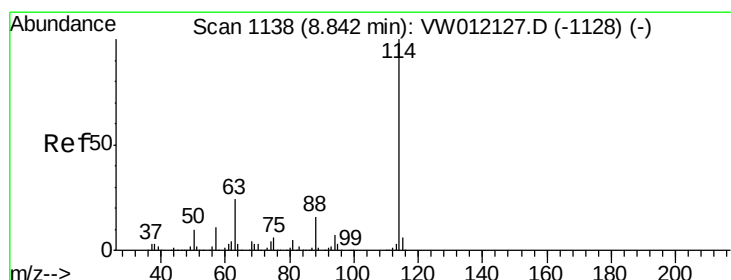
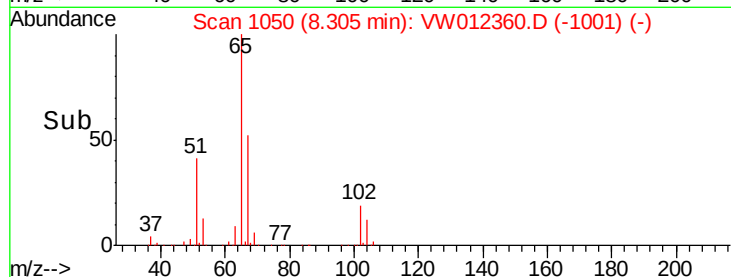
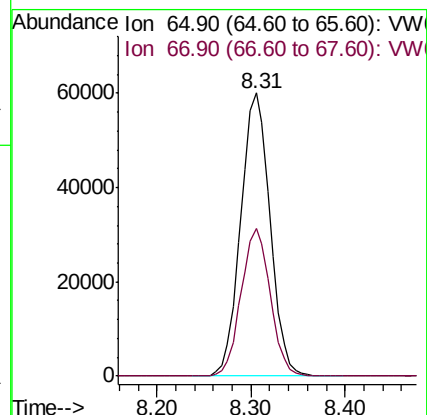
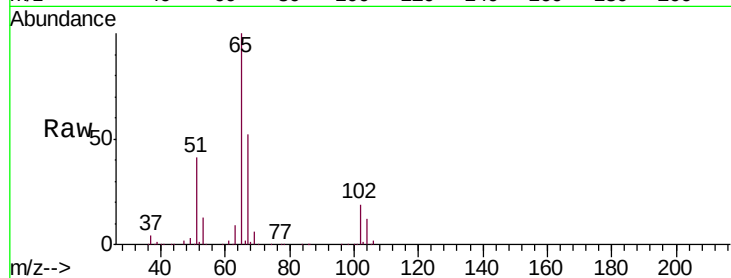
T9-12-13-G4-(0)

Tgt Ion: 65 Resp: 130694

Ion Ratio Lower Upper

65 100

67 51.7 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: VW012360.D

Acq: 30 Aug 2019 19:35

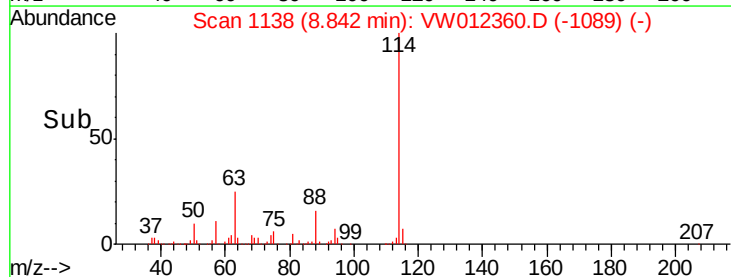
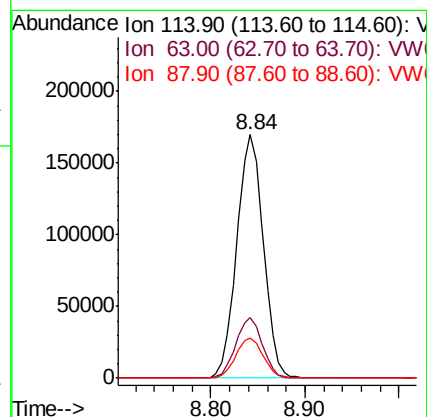
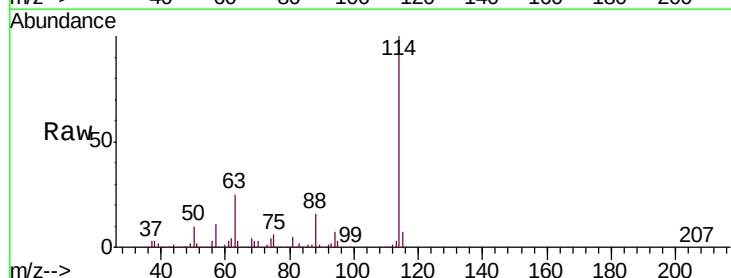
Tgt Ion: 114 Resp: 333412

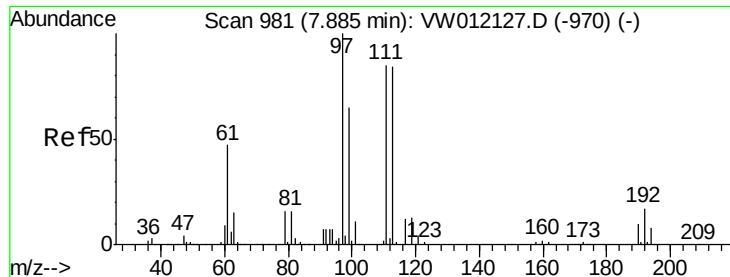
Ion Ratio Lower Upper

114 100

63 24.7 0.0 48.6

88 16.3 0.0 32.2

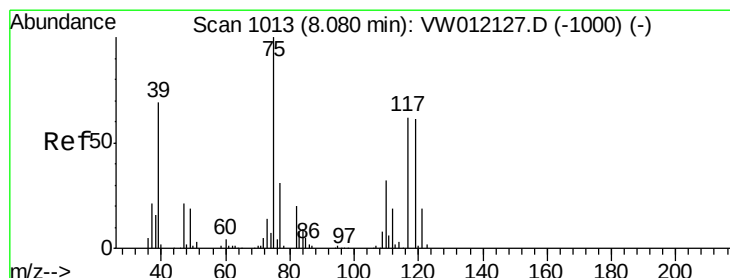
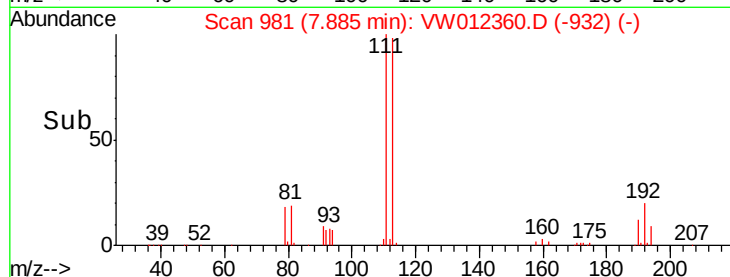
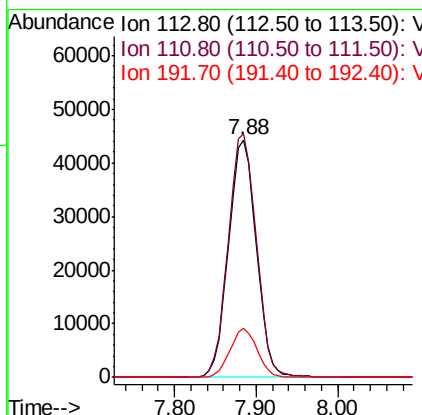
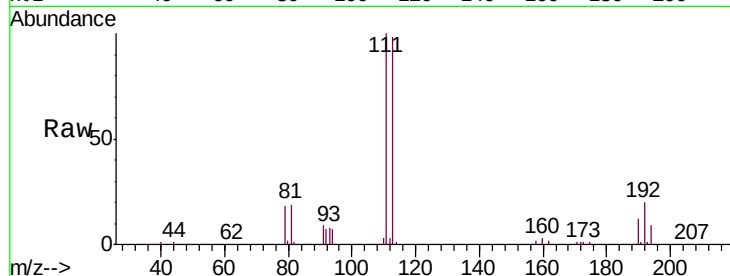




#35
 Dibromofluoromethane
 Concen: 52.257 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW012360.D
 Acq: 30 Aug 2019 19:35

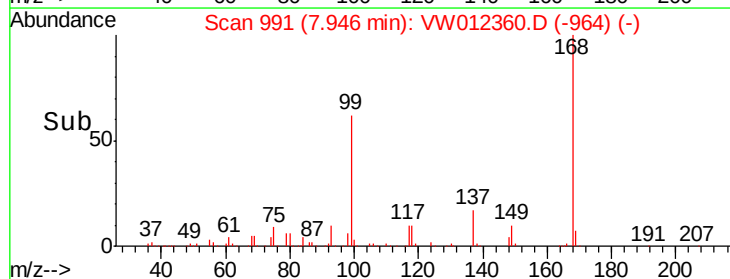
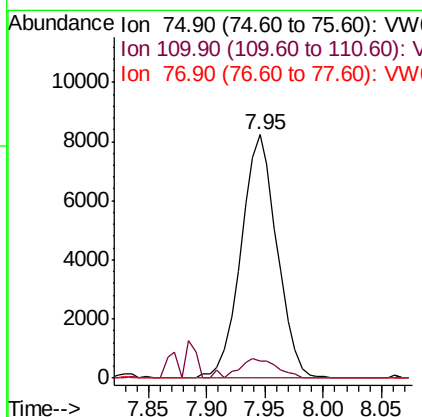
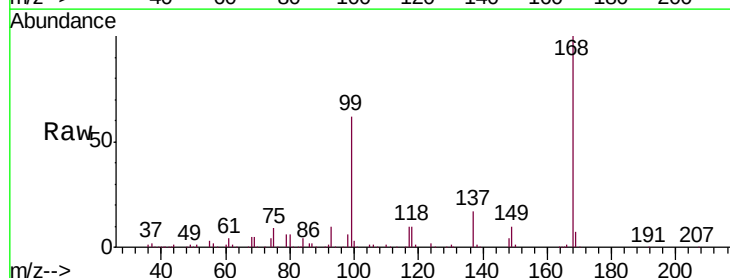
Instrument :
 MSVOA_W
 ClientSampleId :
 T9-12-13-G4-(0)

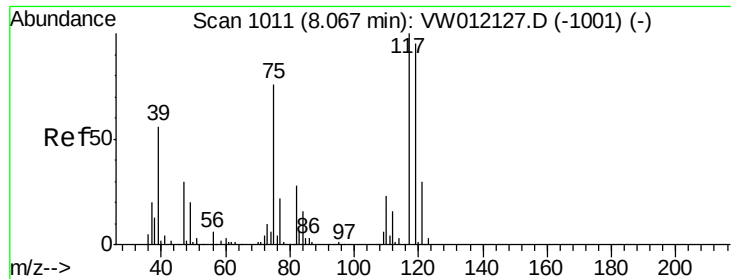
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	82.7	124.1
192	20.0	16.2	24.2



#36
 1,1-Dichloropropene
 Concen: 5.142 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW012360.D
 Acq: 30 Aug 2019 19:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	15.6	46.8#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.986 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-G4-(0)

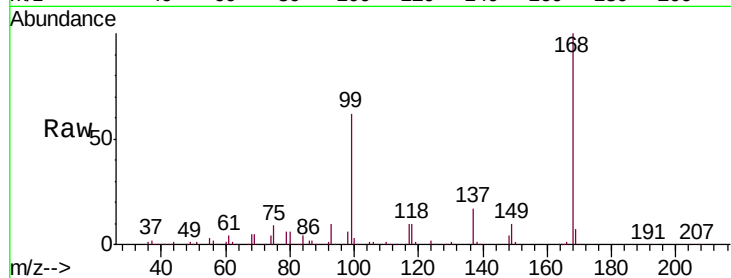
Tgt Ion:117 Resp: 20834

Ion Ratio Lower Upper

117 100

119 6.9 76.2 114.2#

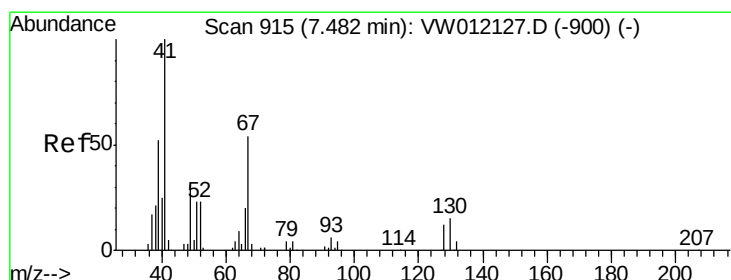
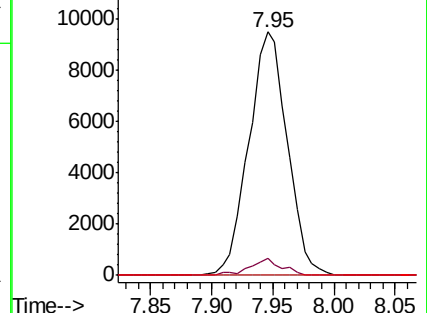
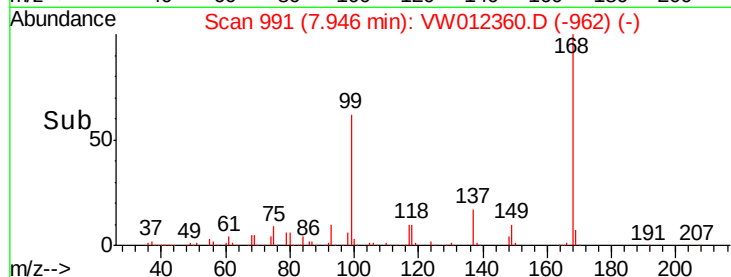
121 0.0 23.8 35.8#



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: 2.411 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.06 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Tgt Ion: 41 Resp: 2675

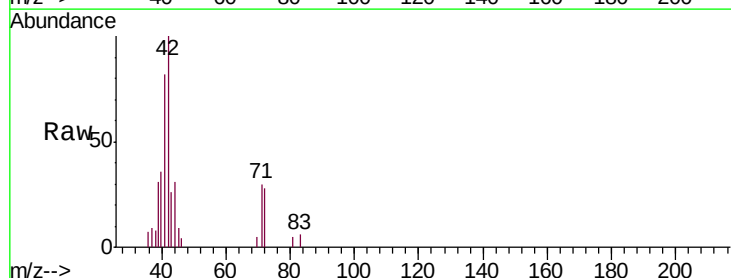
Ion Ratio Lower Upper

41 100

39 48.3 45.8 68.8

67 0.0 46.2 69.4#

52 0.0 21.0 31.6#

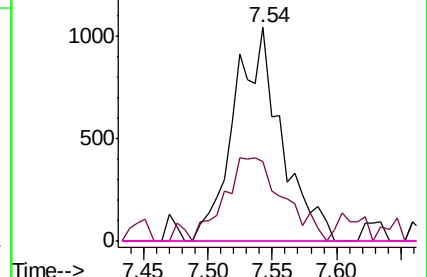
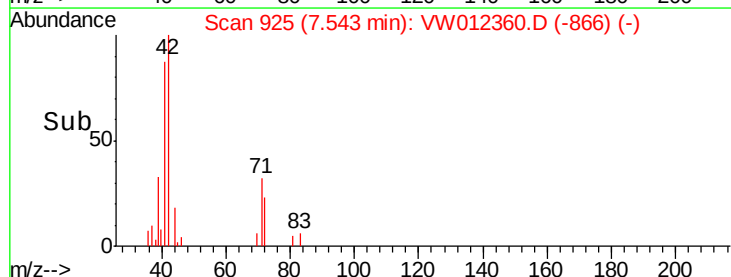


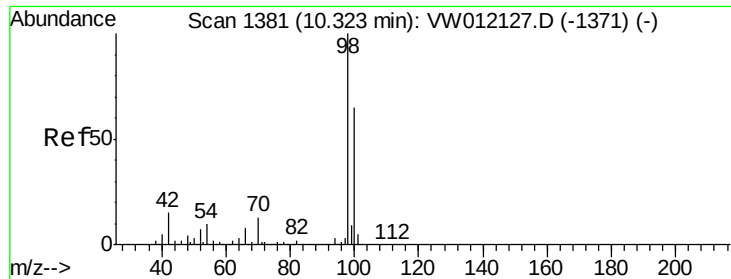
Abundance Ion 41.00 (40.70 to 41.70): VW

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





#50

Toluene-d8

Concen: 49.658 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

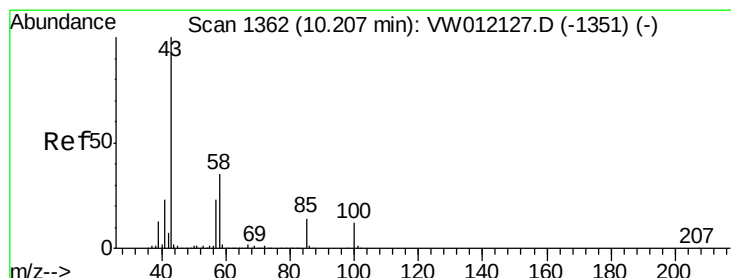
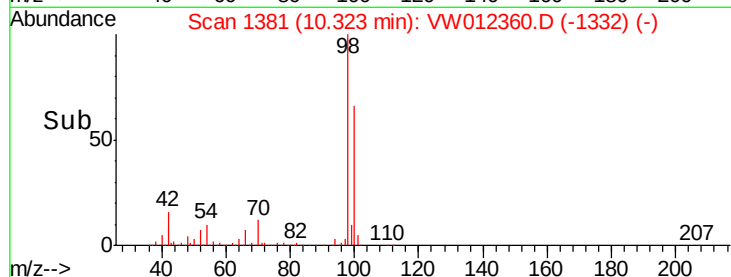
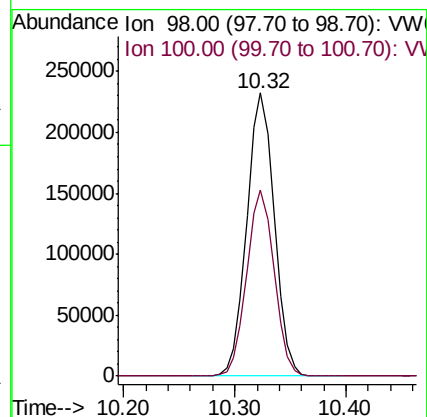
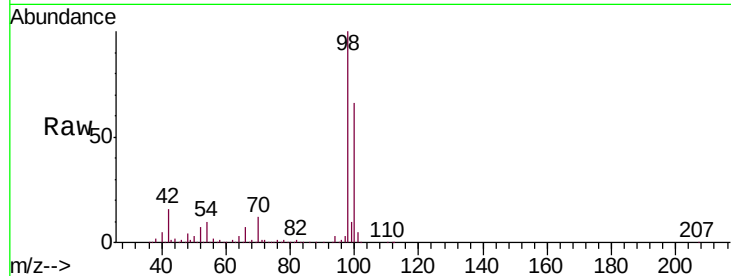
T9-12-13-G4-(0)

Tgt Ion: 98 Resp: 400717

Ion Ratio Lower Upper

98 100

100 65.6 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 1.495 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.12 min

Lab File: VW012360.D

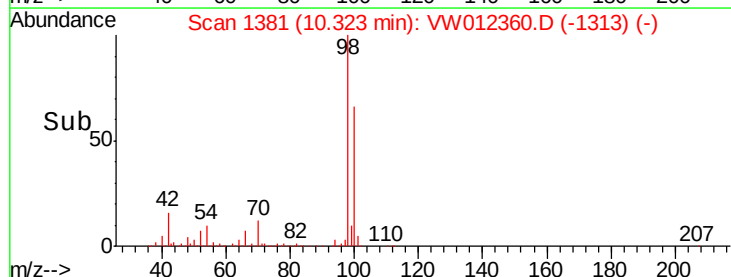
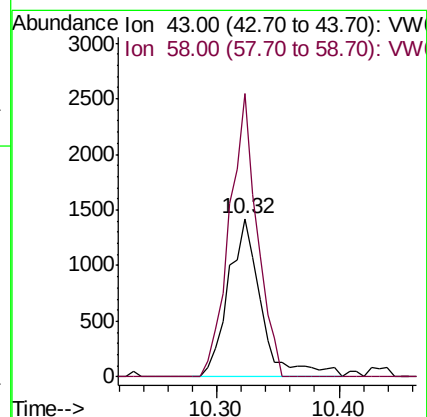
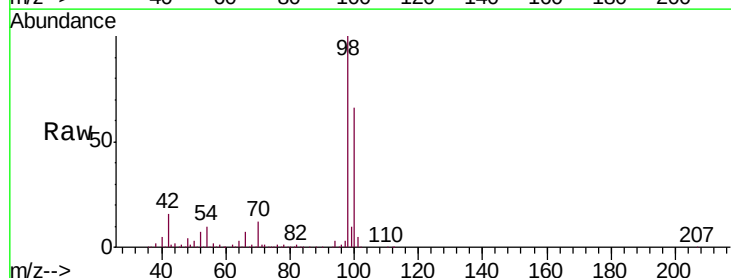
Acq: 30 Aug 2019 19:35

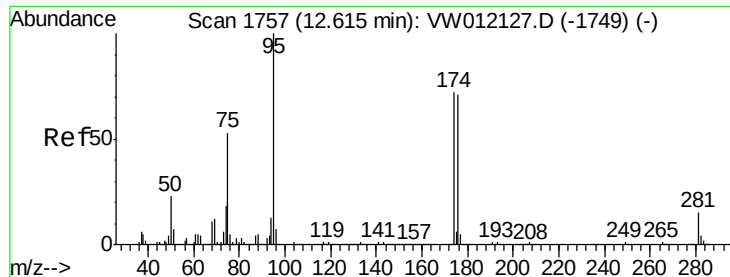
Tgt Ion: 43 Resp: 2660

Ion Ratio Lower Upper

43 100

58 150.5 28.2 42.2#

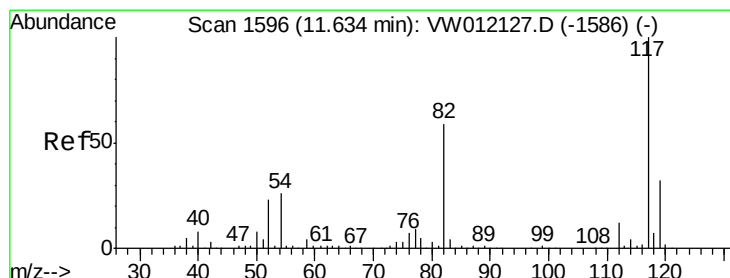
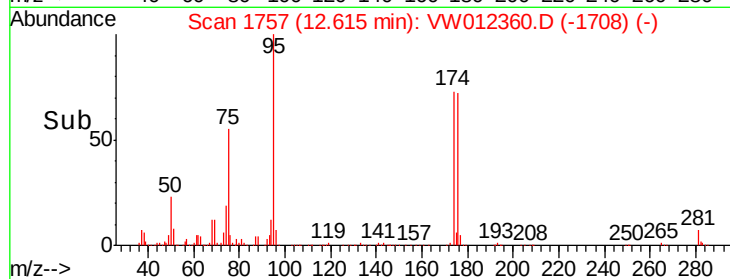
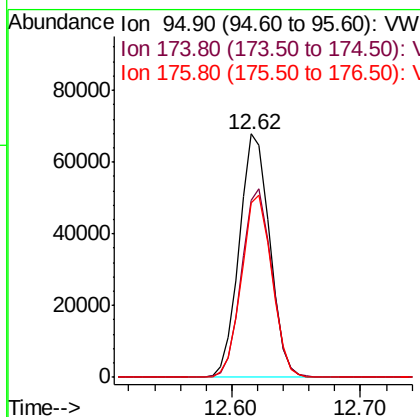
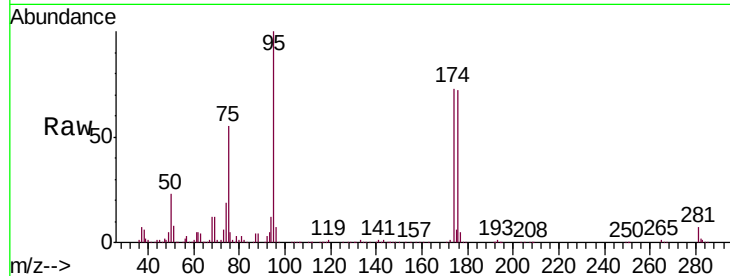




#62
4-Bromofluorobenzene
Concen: 38.963 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

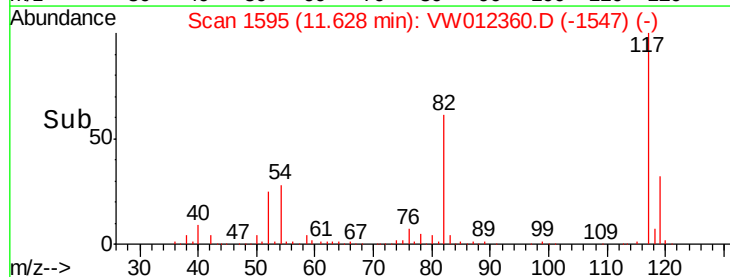
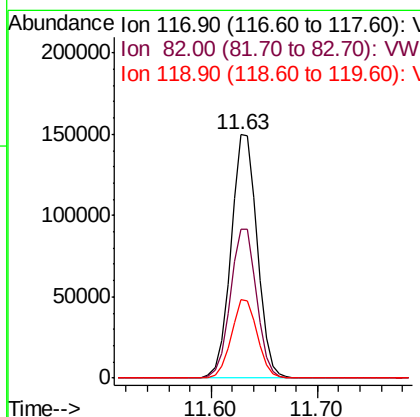
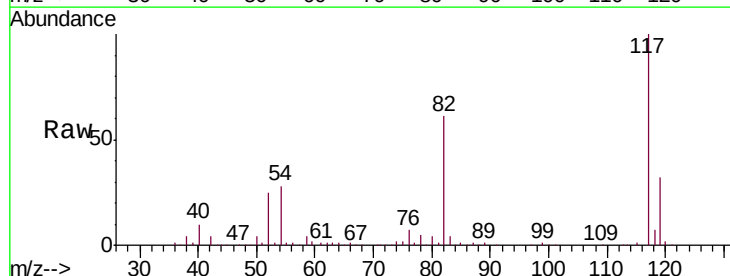
Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-G4-(0)

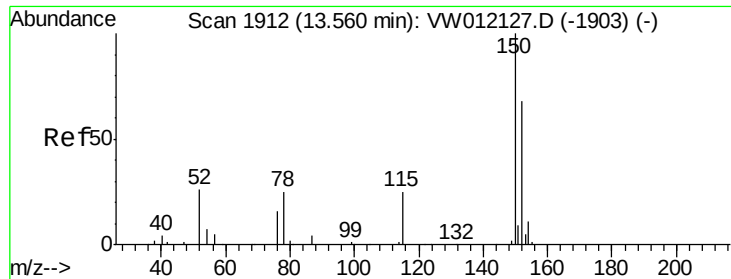
Tgt Ion: 95 Resp: 110829
Ion Ratio Lower Upper
95 100
174 76.8 0.0 150.8
176 74.6 0.0 148.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Tgt Ion: 117 Resp: 258284
Ion Ratio Lower Upper
117 100
82 60.9 47.4 71.2
119 32.2 25.4 38.2



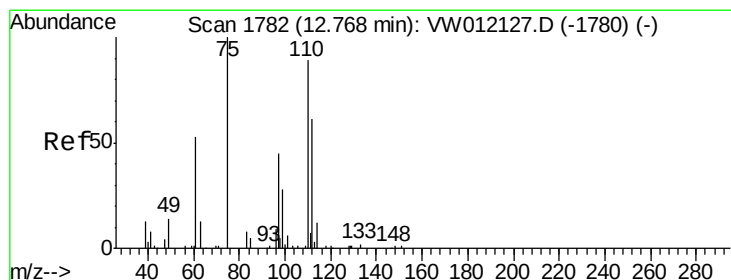
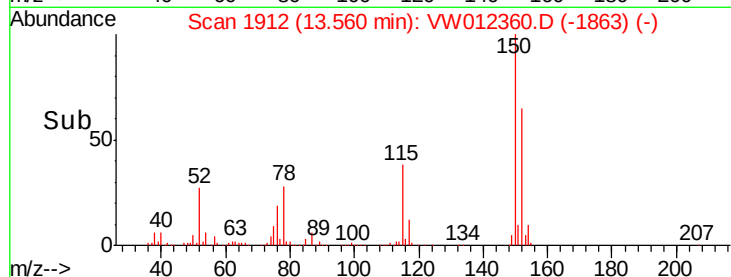
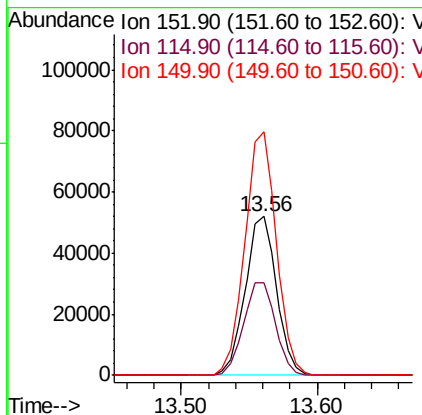
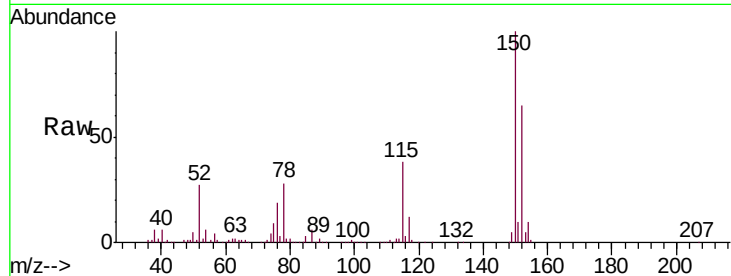


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Instrument :
MSVOA_W
ClientSampleId :
T9-12-13-G4-(0)

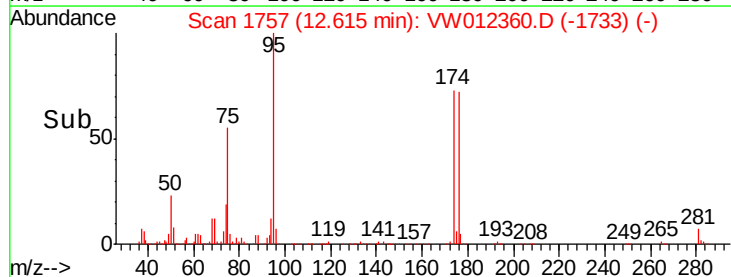
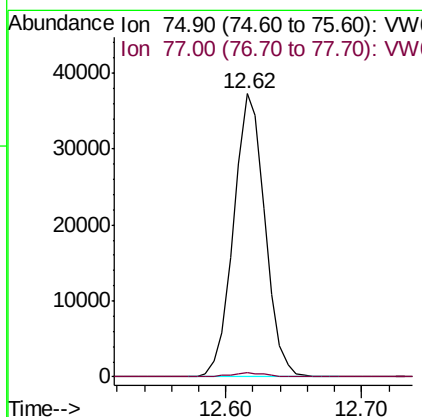
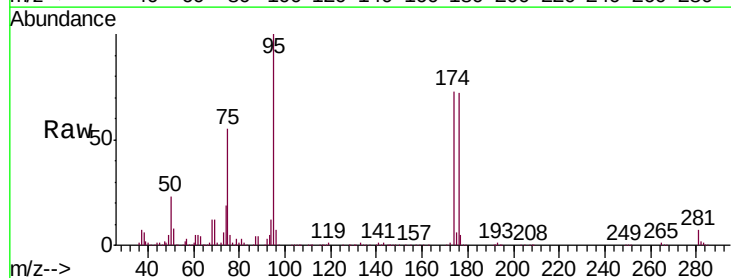
Tgt Ion:152 Resp: 84044
Ion Ratio Lower Upper
152 100
115 59.3 30.1 90.3
150 153.2 0.0 345.8

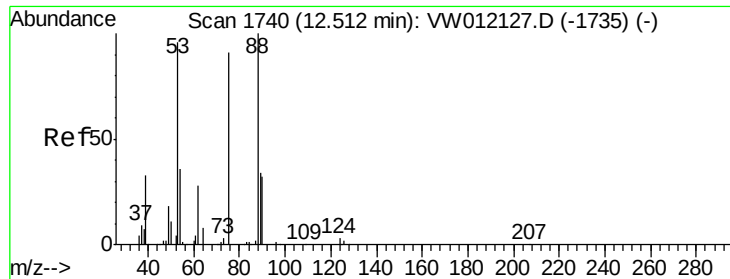


#76

1,2,3-Trichloropropane
Concen: 72.953 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW012360.D
Acq: 30 Aug 2019 19:35

Tgt Ion: 75 Resp: 59714
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 159.952 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

Instrument :

MSVOA_W

ClientSampleId :

T9-12-13-G4-(0)

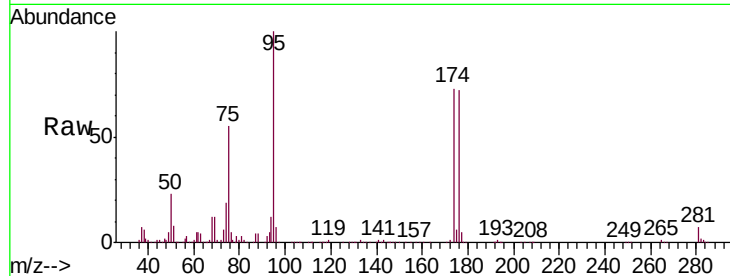
Tgt Ion: 75 Resp: 59714

Ion Ratio Lower Upper

75 100

53 0.2 89.4 134.0#

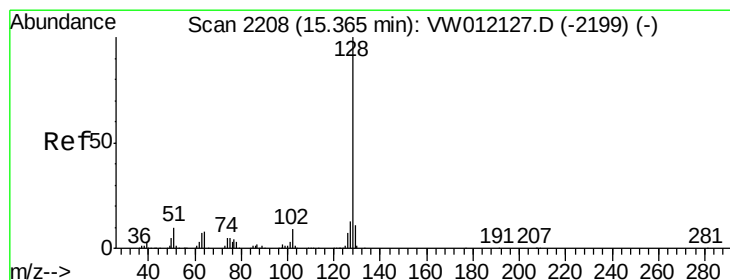
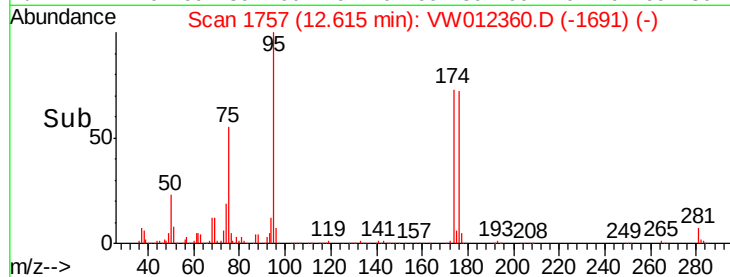
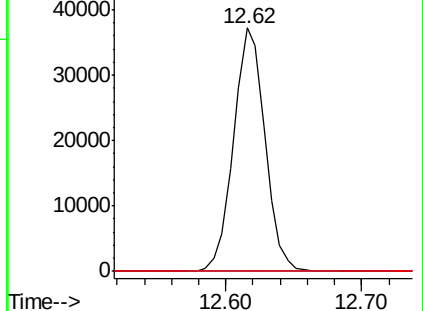
89 0.1 34.5 51.7#



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



#95

Naphthalene

Concen: 4.444 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW012360.D

Acq: 30 Aug 2019 19:35

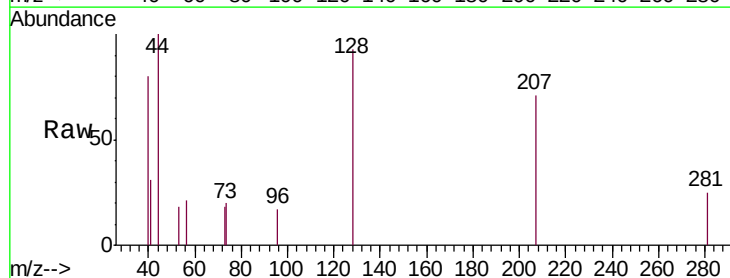
Tgt Ion: 128 Resp: 425

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

