

Data File : VW013173.D
Acq On : 19 Sep 2019 20:27
Operator : SY/VA
Sample : K4925-03
Misc : 5.01G/5ML/MSVOA_W/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SS-3

Quant Time: Sep 20 07:49:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091419S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 13 17:26:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	335079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	502028	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	411691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	176017	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	135392	43.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.50%	
35) Dibromofluoromethane	7.88	113	135406	49.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.42%	
50) Toluene-d8	10.32	98	574629	53.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.82%	
62) 4-Bromofluorobenzene	12.62	95	177516	46.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.62%	

Target Compounds

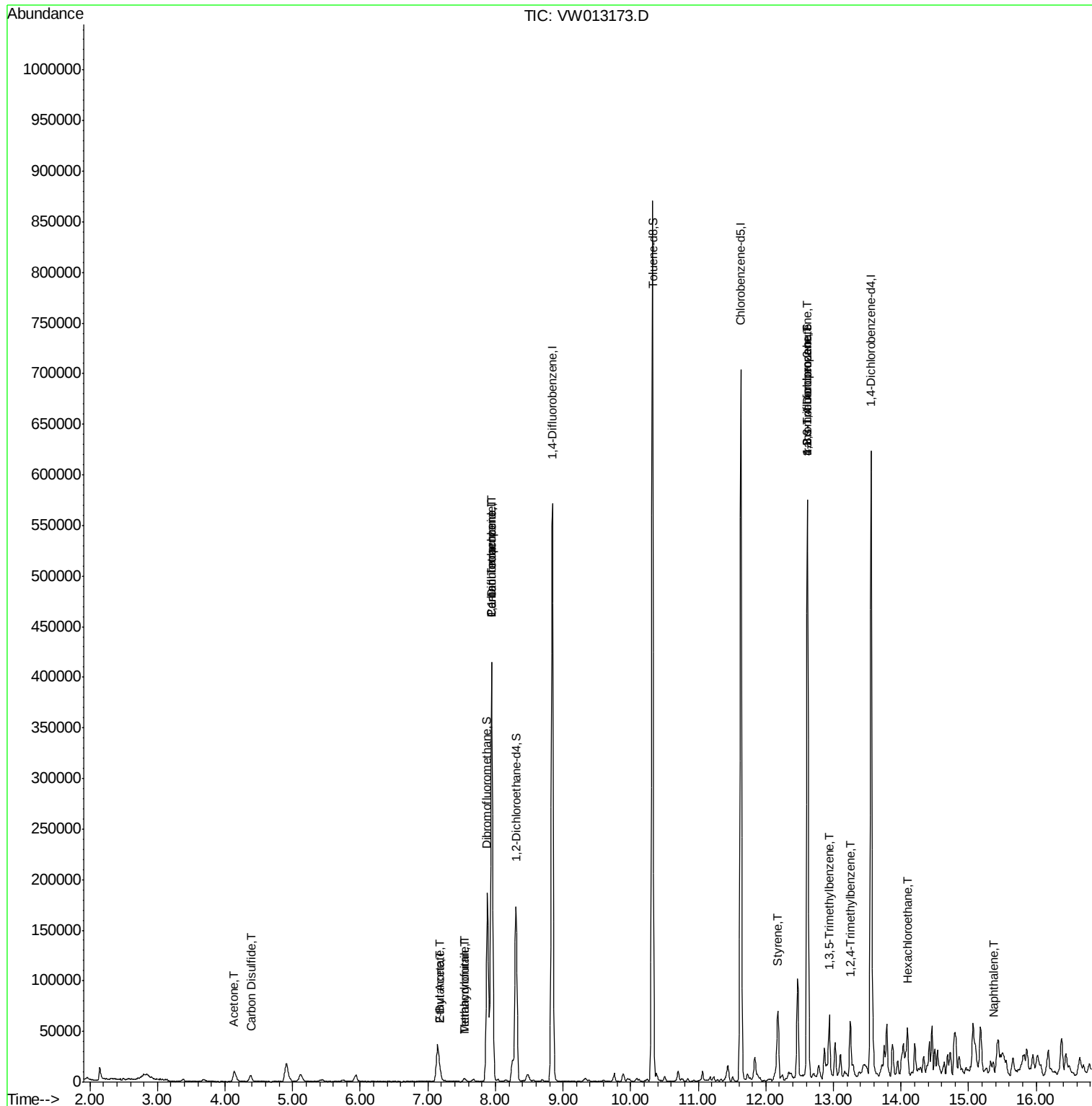
						Qvalue
2) Dichlorodifluoromethane	2.00	85	83	Below Cal	#	44
3) Chloromethane	2.20	50	221	Below Cal		90
11) Tert butyl alcohol	5.19	59	247	Below Cal	#	72
13) Acrolein	4.02	56	64	Below Cal	#	15
16) Acetone	4.14	43	21408	13.378	ug/l	97
17) Carbon Disulfide	4.39	76	13474	2.923	ug/l #	94
25) 2-Butanone	7.18	43	8495	8.633	ug/l #	83
26) 2,2-Dichloropropane	7.15	77	2632	Below Cal	#	55
29) Tetrahydrofuran	7.54	42	2387	4.257	ug/l	95
31) Cyclohexane	7.95	56	5958	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	22152	5.522	ug/l #	51
37) Ethyl Acetate	7.18	43	8495	3.990	ug/l #	71
38) Carbon Tetrachloride	7.95	117	29577	7.195	ug/l #	14
41) Methacrylonitrile	7.54	41	1513	1.079	ug/l #	44
70) Styrene	12.18	104	32123	3.893	ug/l #	90
76) 1,2,3-Trichloropropane	12.62	75	85869	55.695	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	21823	2.211	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	85869	126.343	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.25	105	33345	3.419	ug/l	100
90) Hexachloroethane	14.10	117	2230	1.127	ug/l #	4
95) Naphthalene	15.36	128	5842	1.048	ug/l #	85

(#) = 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: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

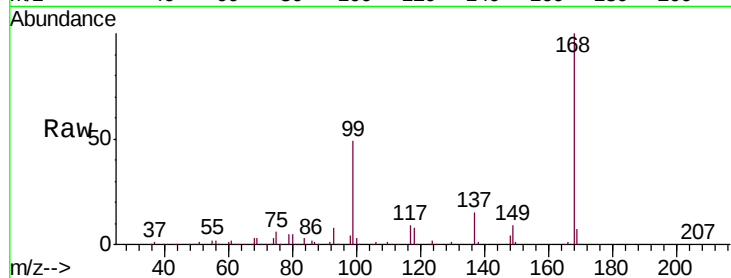
SS-3

Tgt Ion:168 Resp: 335079

Ion Ratio Lower Upper

168 100

99 48.6 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

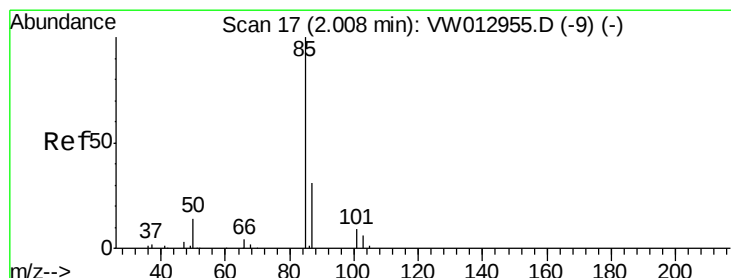
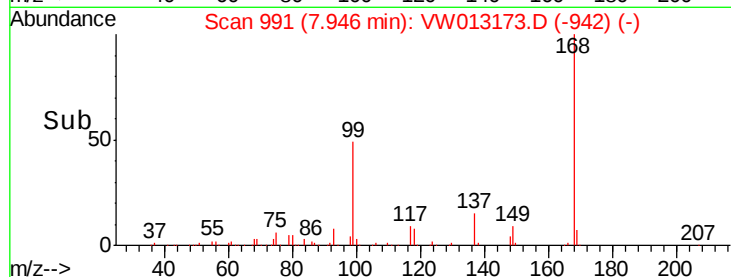
100000

50000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013173.D

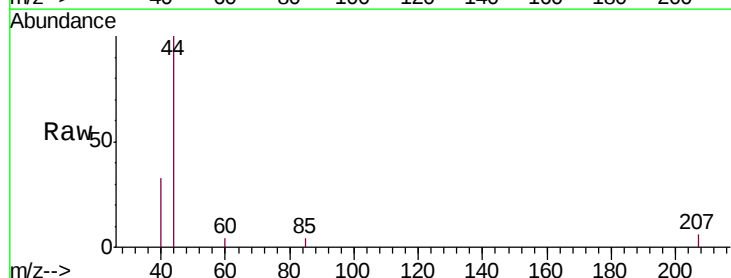
Acq: 19 Sep 2019 20:27

Tgt Ion: 85 Resp: 83

Ion Ratio Lower Upper

85 100

87 0.0 15.4 46.4#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

80

60

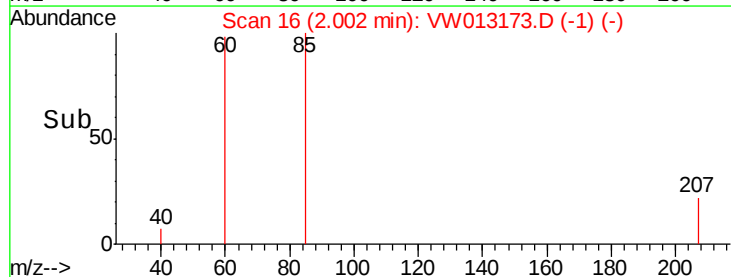
40

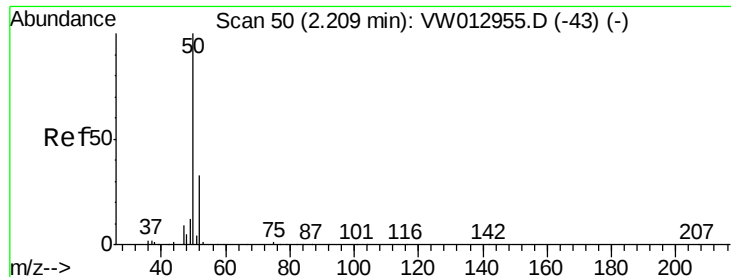
20

0

1.98 2.00 2.02

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

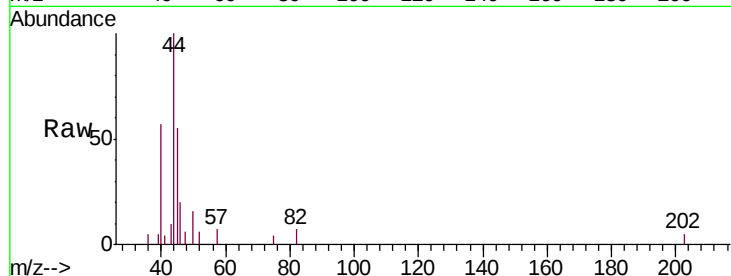
SS-3

Tgt Ion: 50 Resp: 221

Ion Ratio Lower Upper

50 100

52 39.0 26.6 39.8



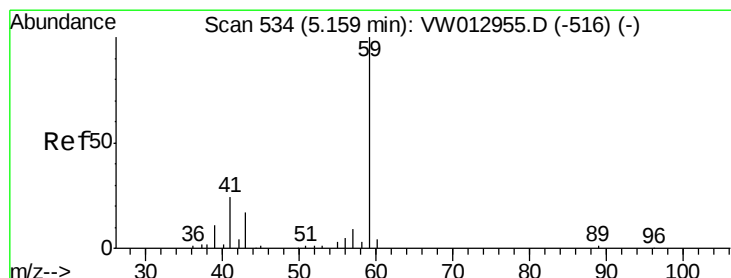
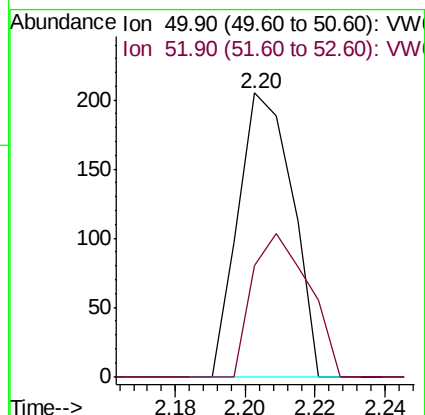
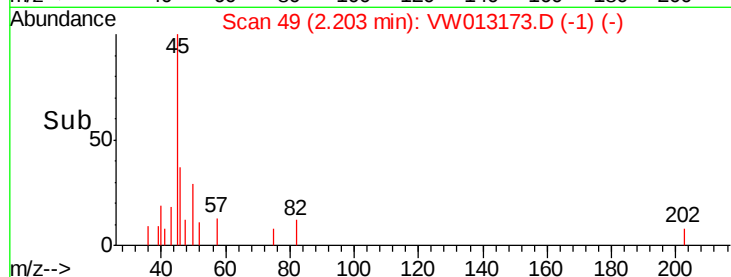
Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW

2.20

2.22

2.24



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.19 min Scan# 539

Delta R.T. 0.03 min

Lab File: VW013173.D

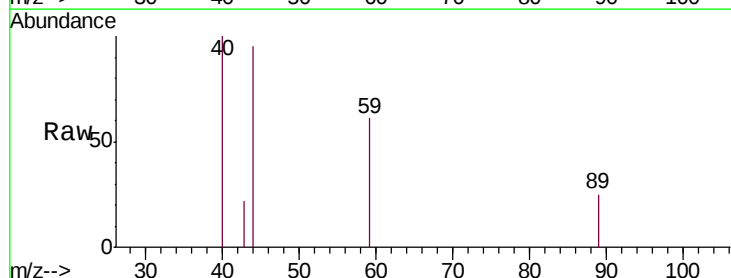
Acq: 19 Sep 2019 20:27

Tgt Ion: 59 Resp: 247

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

300

250

200

150

100

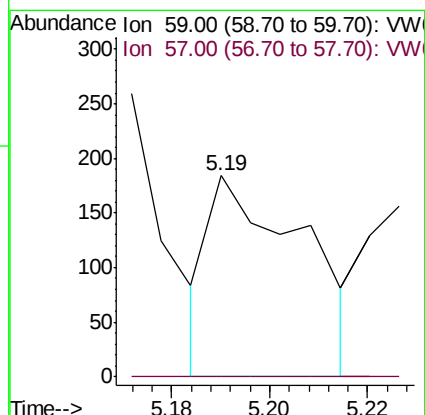
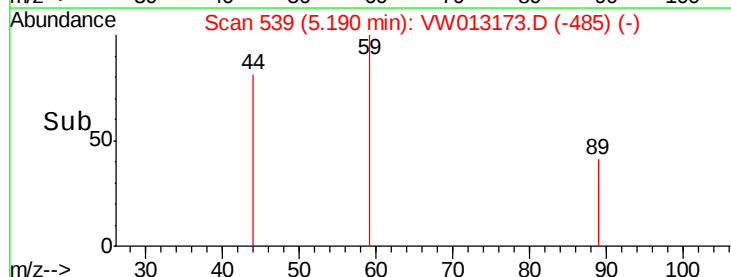
50

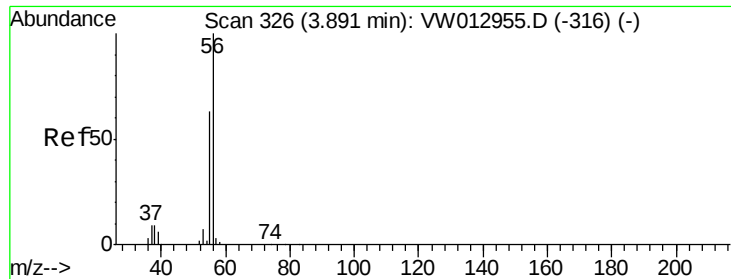
0

5.18

5.20

5.22





#13

Acrolein

Concen: Below Cal

RT: 4.02 min Scan# 347

Delta R.T. 0.13 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampled :

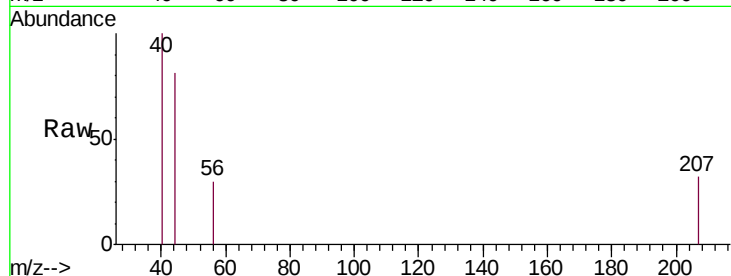
SS-3

Tgt Ion: 56 Resp: 64

Ion Ratio Lower Upper

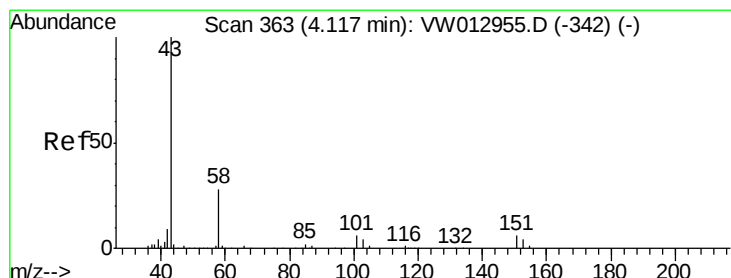
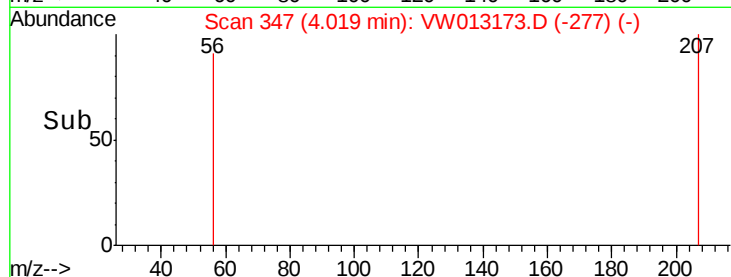
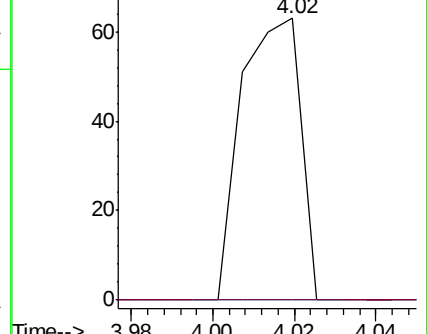
56 100

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



#16

Acetone

Concen: 13.378 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013173.D

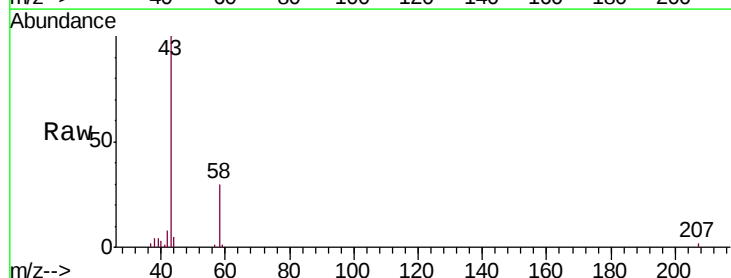
Acq: 19 Sep 2019 20:27

Tgt Ion: 43 Resp: 21408

Ion Ratio Lower Upper

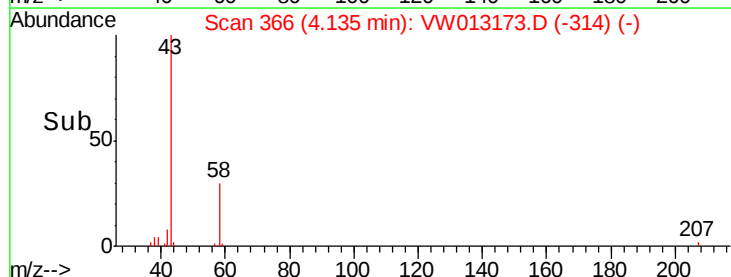
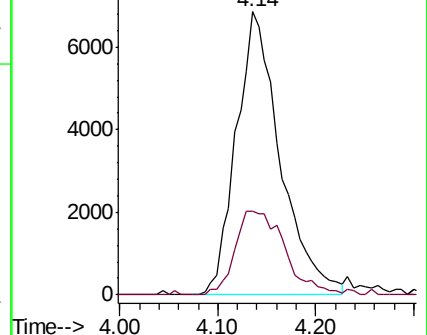
43 100

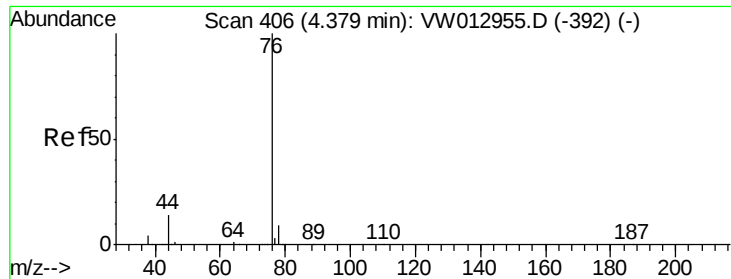
58 29.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

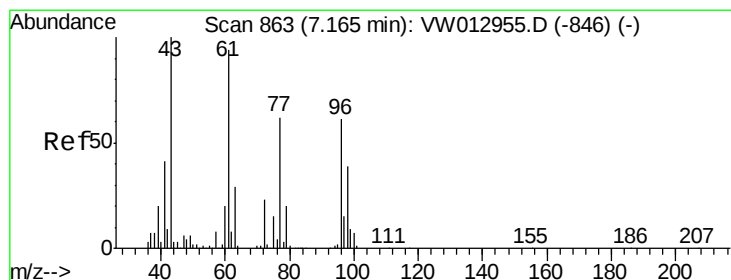
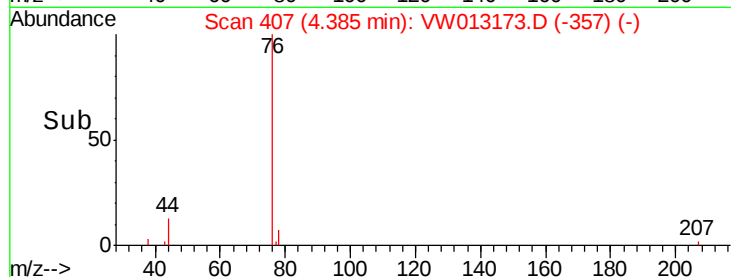
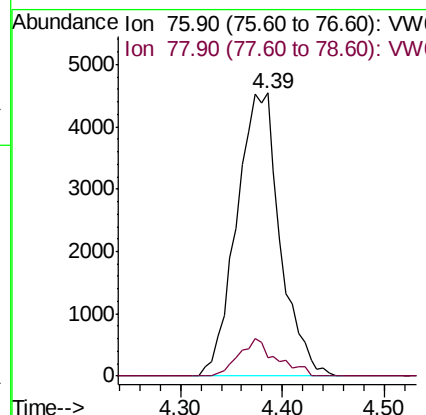
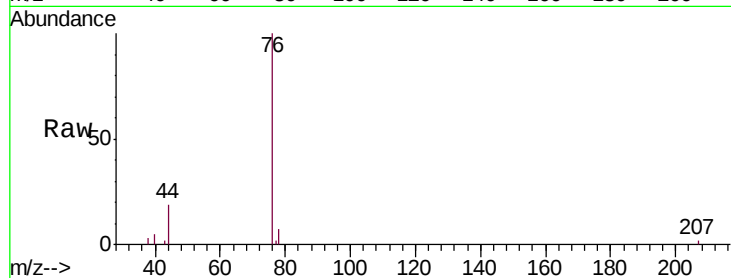




#17
Carbon Disulfide
Concen: 2.923 ug/l
RT: 4.39 min Scan# 407
Delta R.T. 0.01 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

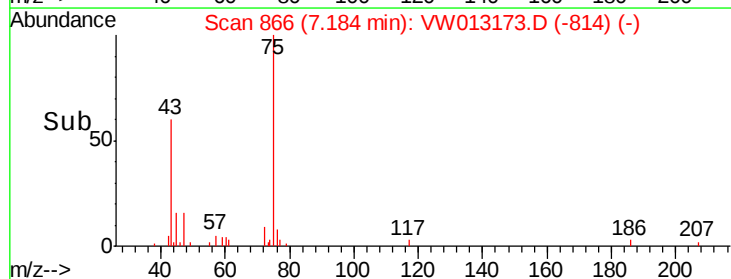
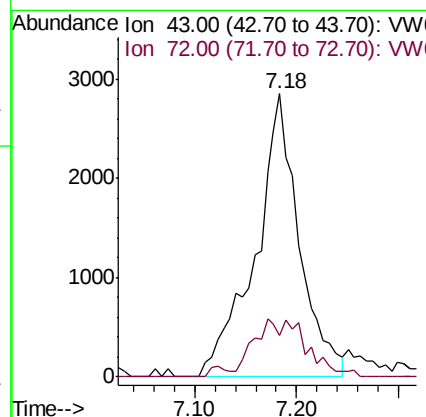
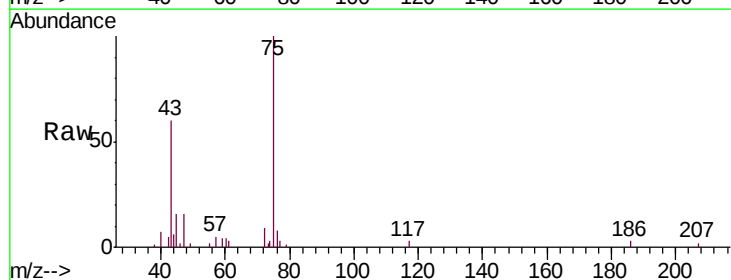
Instrument :
MSVOA_W
ClientSampled :
SS-3

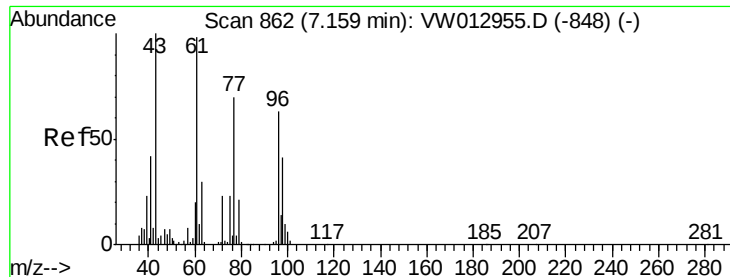
Tgt Ion: 76 Resp: 13474
Ion Ratio Lower Upper
76 100
78 6.7 7.0 10.4#



#25
2-Butanone
Concen: 8.633 ug/l
RT: 7.18 min Scan# 866
Delta R.T. 0.02 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

Tgt Ion: 43 Resp: 8495
Ion Ratio Lower Upper
43 100
72 14.4 18.2 27.4#

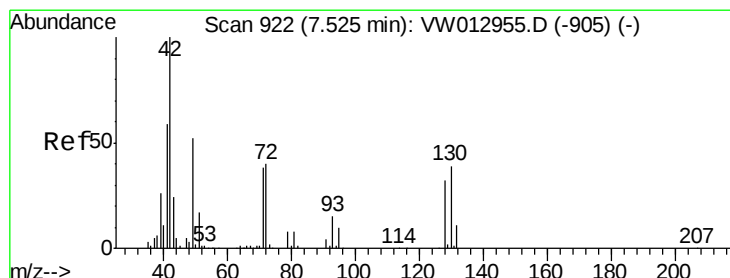
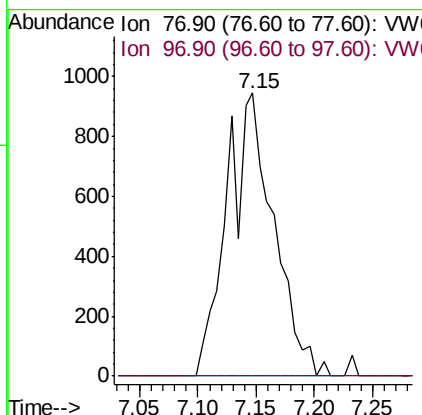
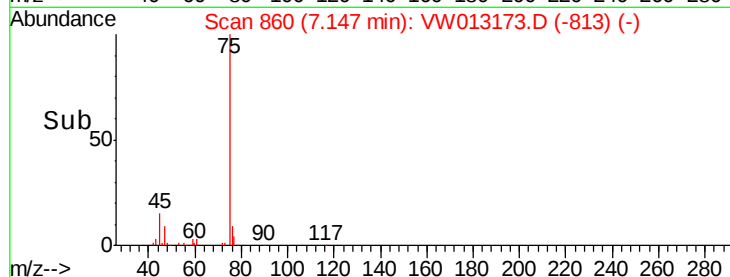
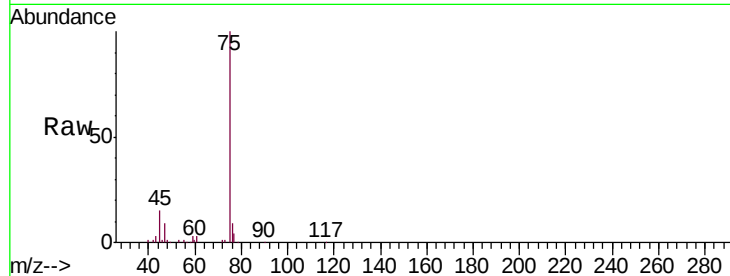




#26
 2,2-Dichloropropane
 Concen: Below Cal
 RT: 7.15 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

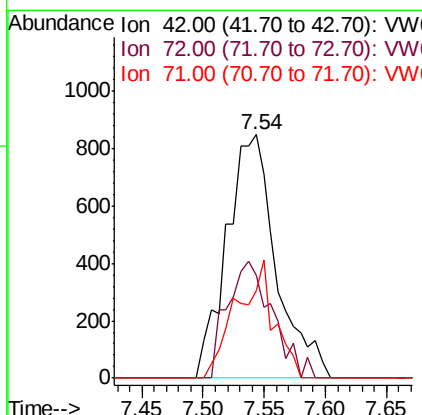
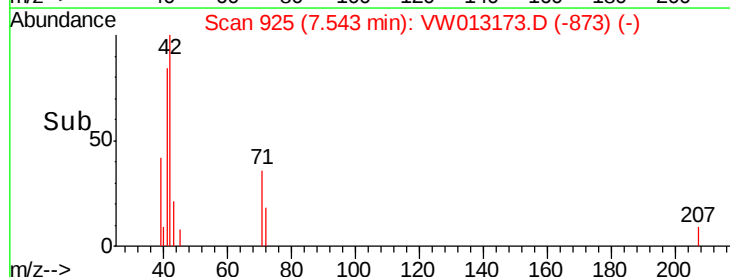
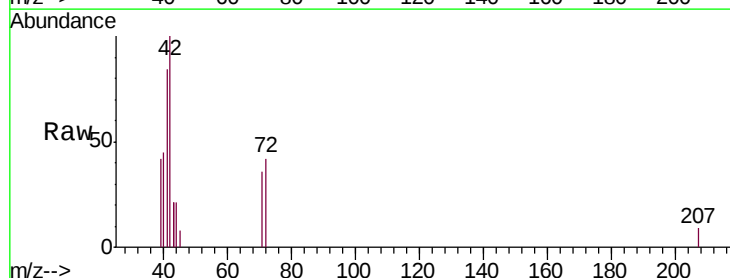
Instrument :
 MSVOA_W
 ClientSampled :
 SS-3

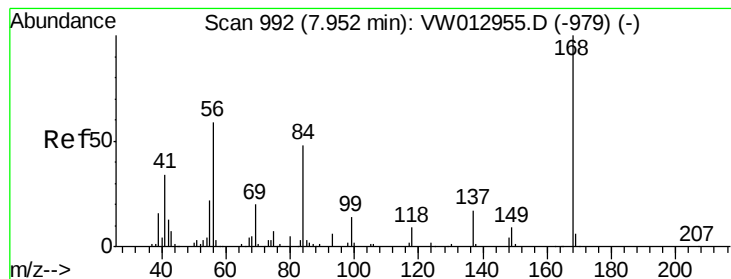
Tgt Ion: 77 Resp: 2632
 Ion Ratio Lower Upper
 77 100
 97 0.0 10.7 32.1#



#29
 Tetrahydrofuran
 Concen: 4.257 ug/l
 RT: 7.54 min Scan# 925
 Delta R.T. 0.02 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

Tgt Ion: 42 Resp: 2387
 Ion Ratio Lower Upper
 42 100
 72 43.9 31.4 47.0
 71 36.5 29.8 44.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampled :

SS-3

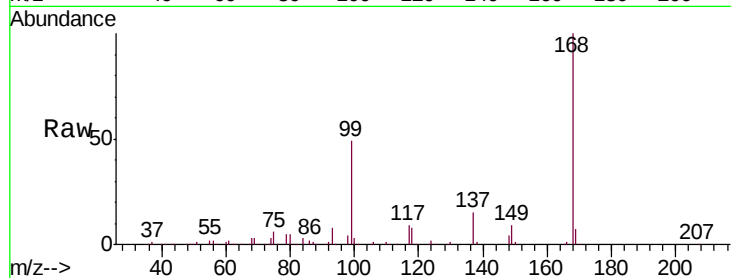
Tgt Ion: 56 Resp: 5958

Ion Ratio Lower Upper

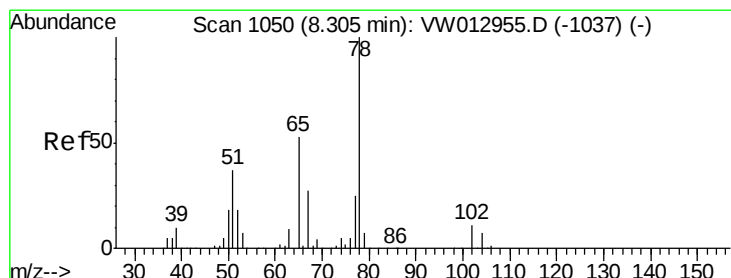
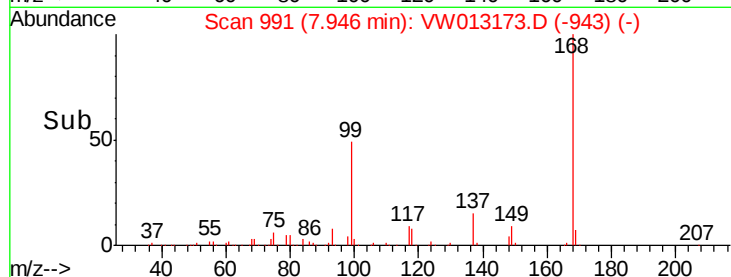
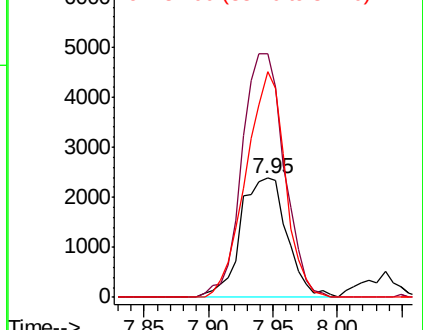
56 100

69 204.2 27.0 40.6#

84 189.3 66.2 99.2#



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: 43.750 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013173.D

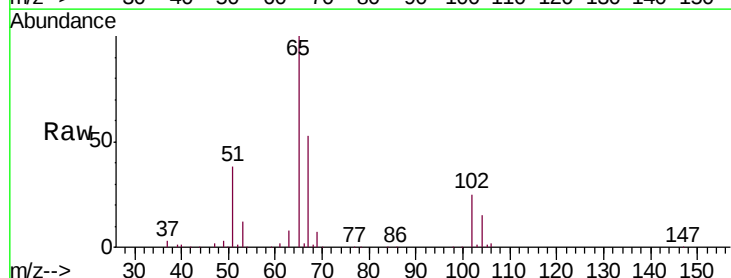
Acq: 19 Sep 2019 20:27

Tgt Ion: 65 Resp: 135392

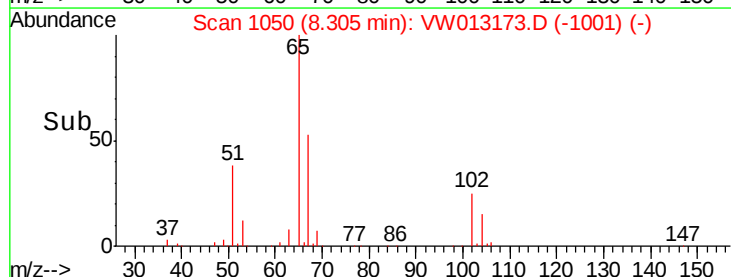
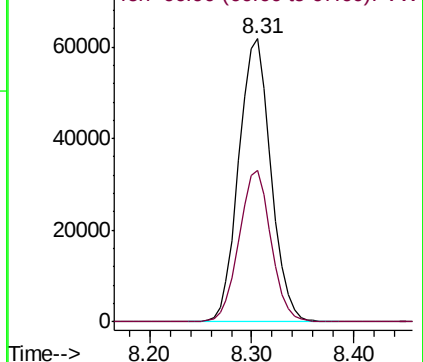
Ion Ratio Lower Upper

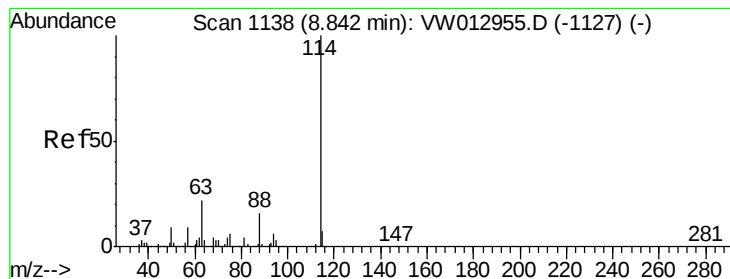
65 100

67 53.3 0.0 101.2



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: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

SS-3

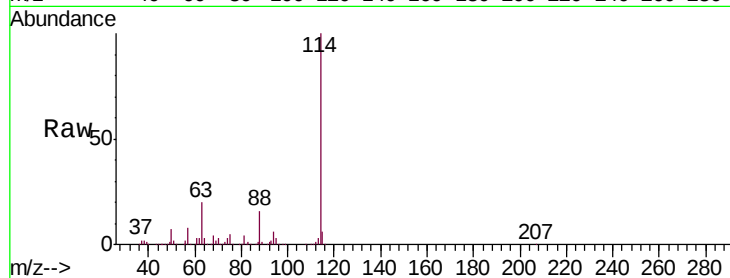
Tgt Ion:114 Resp: 502028

Ion Ratio Lower Upper

114 100

63 19.9 0.0 43.4

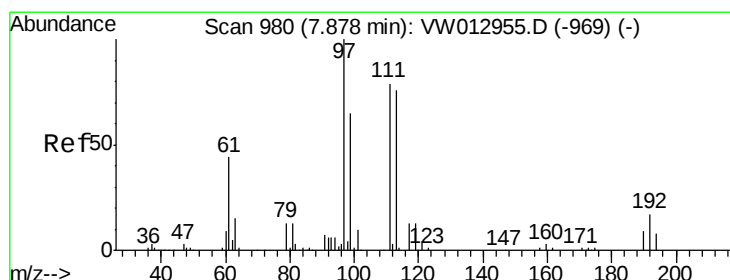
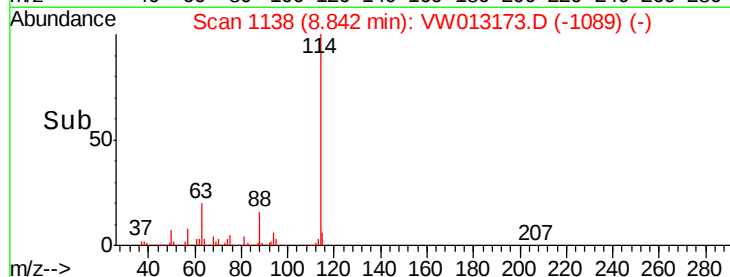
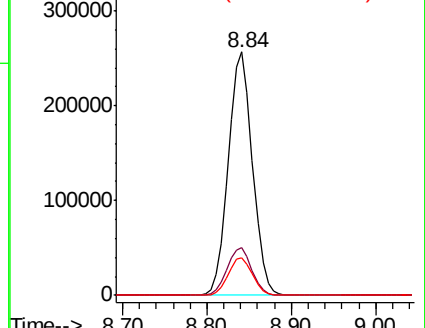
88 15.7 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 49.707 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

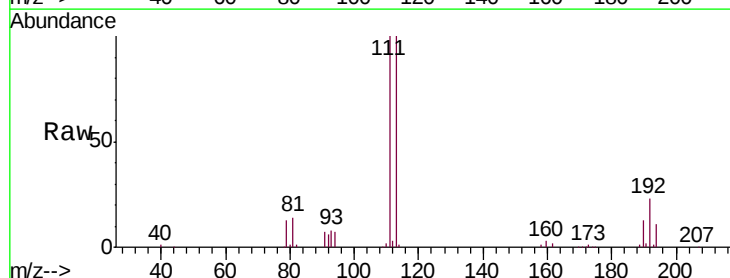
Tgt Ion:113 Resp: 135406

Ion Ratio Lower Upper

113 100

111 101.6 82.8 124.2

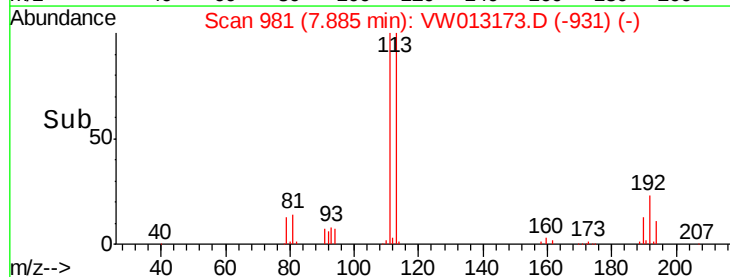
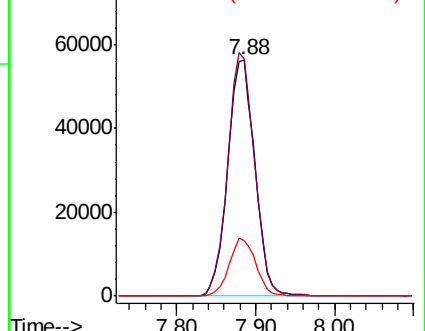
192 23.7 17.8 26.8

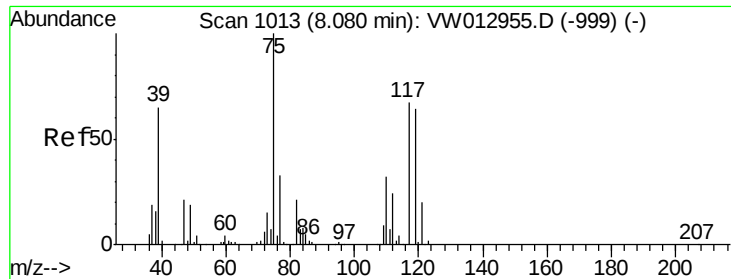


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

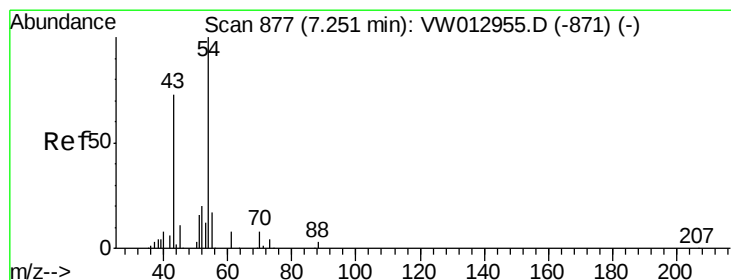
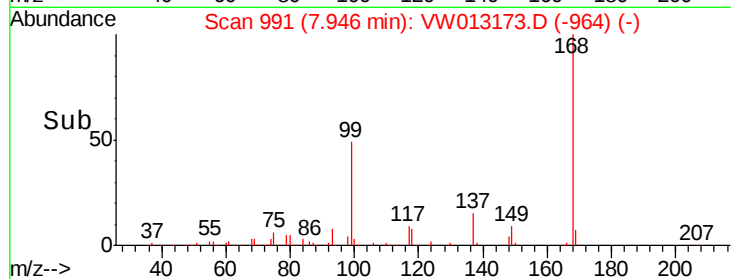
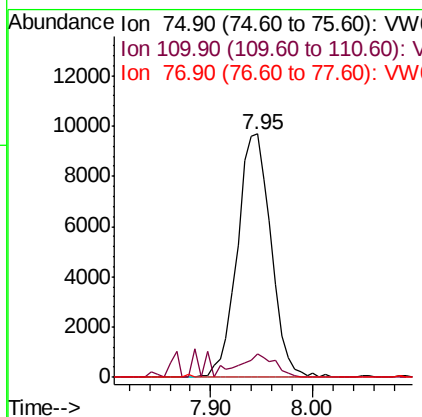
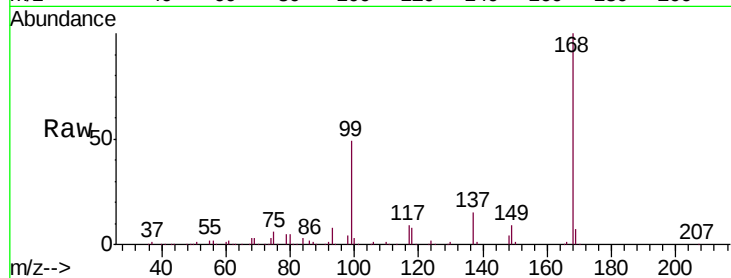




#36
 1,1-Dichloropropene
 Concen: 5.522 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

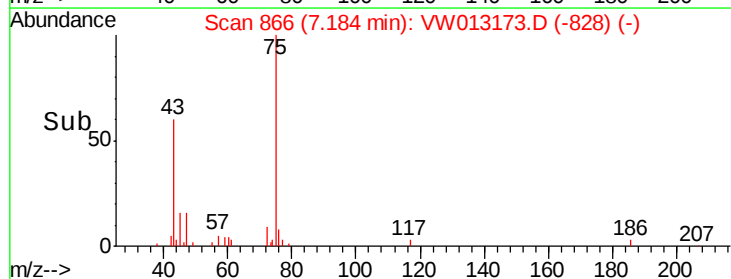
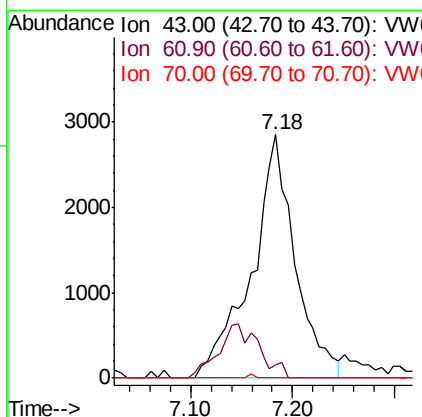
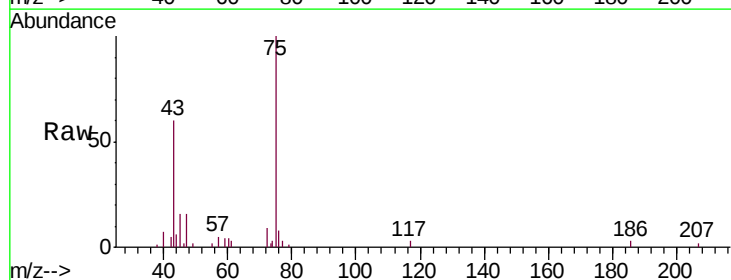
Instrument :
 MSVOA_W
 ClientSampleId :
 SS-3

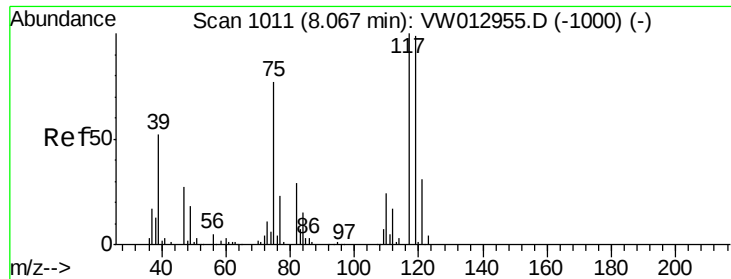
Tgt Ion: 75 Resp: 22152
 Ion Ratio Lower Upper
 75 100
 110 9.2 16.4 49.1#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 3.990 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

Tgt Ion: 43 Resp: 8495
 Ion Ratio Lower Upper
 43 100
 61 0.0 9.6 14.4#
 70 0.0 7.6 11.4#

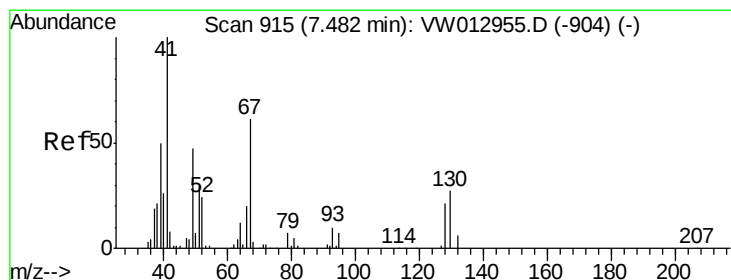
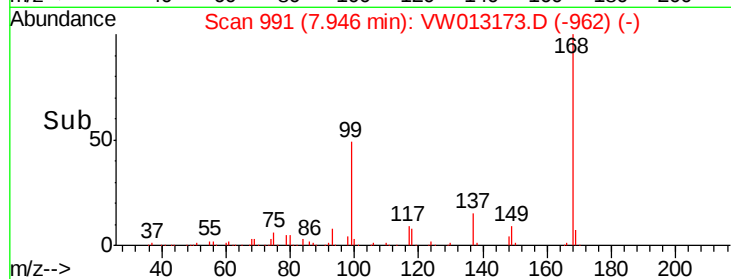
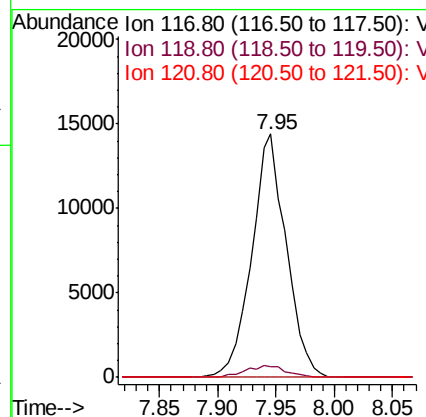
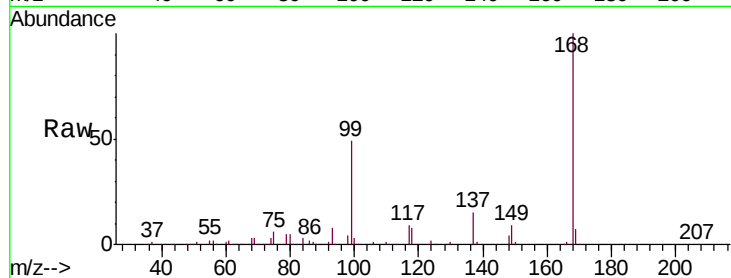




#38
Carbon Tetrachloride
Concen: 7.195 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

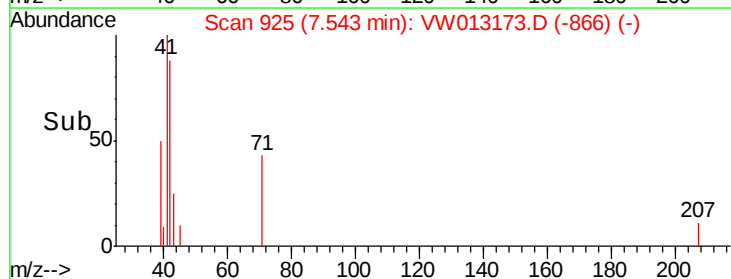
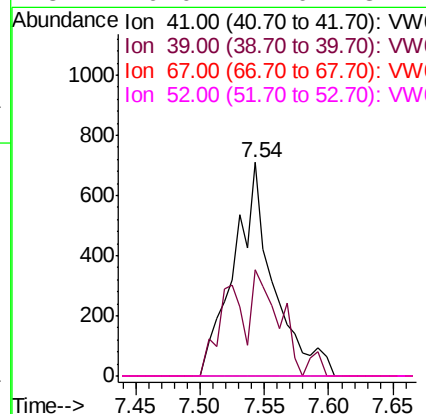
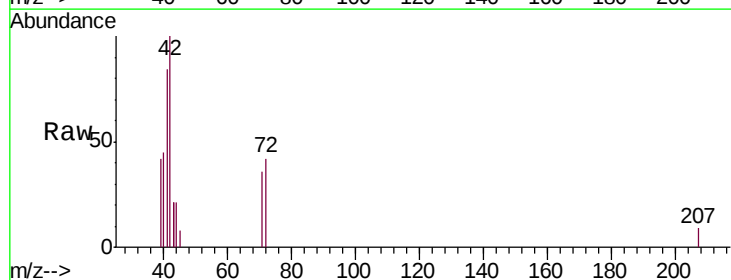
Instrument :
MSVOA_W
ClientSampled :
SS-3

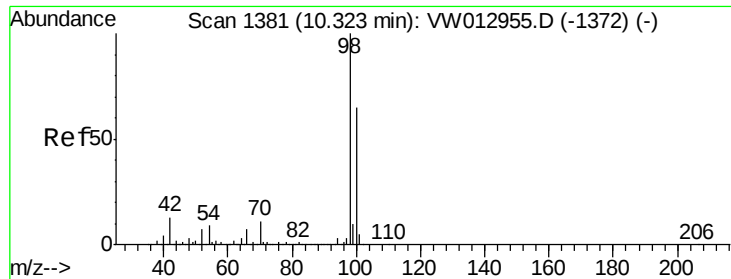
Tgt Ion: 117 Resp: 29577
Ion Ratio Lower Upper
117 100
119 4.6 79.4 119.0#
121 0.0 24.6 36.8#



#41
Methacrylonitrile
Concen: 1.079 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.06 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

Tgt Ion: 41 Resp: 1513
Ion Ratio Lower Upper
41 100
39 32.6 48.2 72.4#
67 0.0 47.5 71.3#
52 0.0 21.0 31.4#





#50

Toluene-d8

Concen: 53.907 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

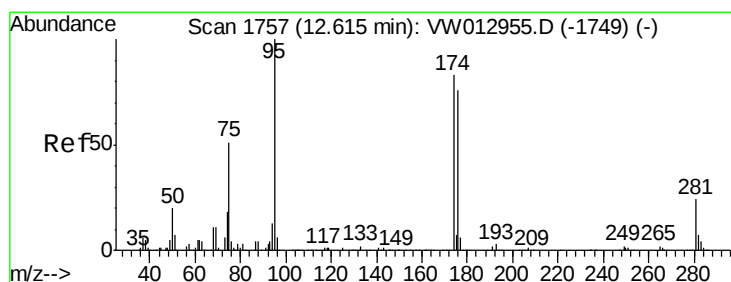
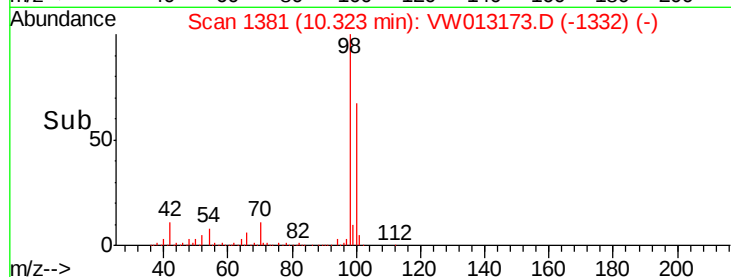
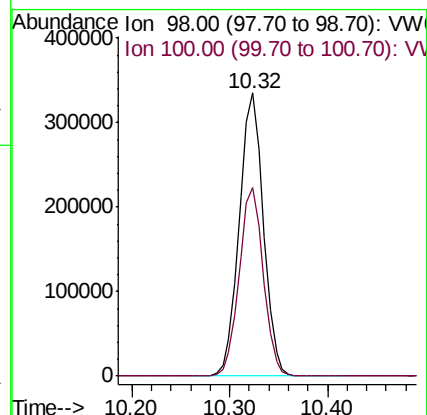
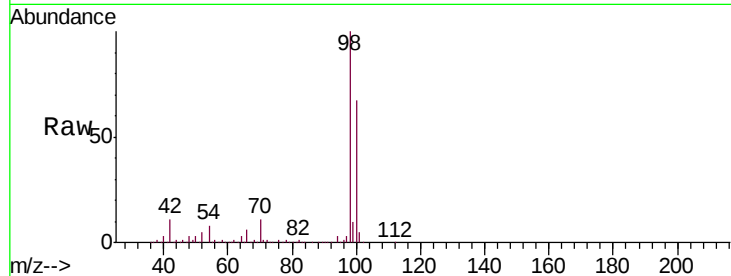
SS-3

Tgt Ion: 98 Resp: 574629

Ion Ratio Lower Upper

98 100

100 66.5 52.1 78.1



#62

4-Bromofluorobenzene

Concen: 46.313 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

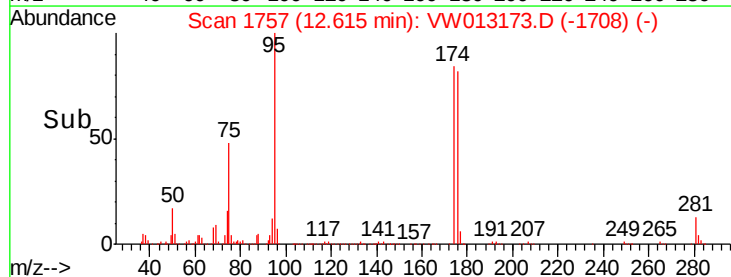
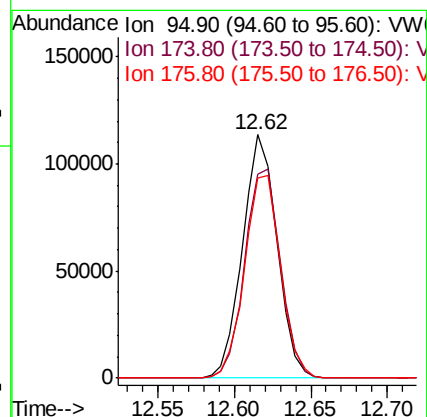
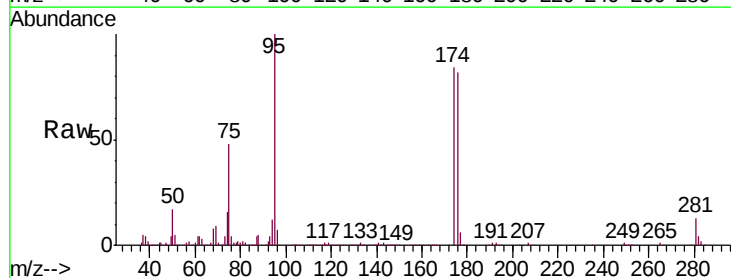
Tgt Ion: 95 Resp: 177516

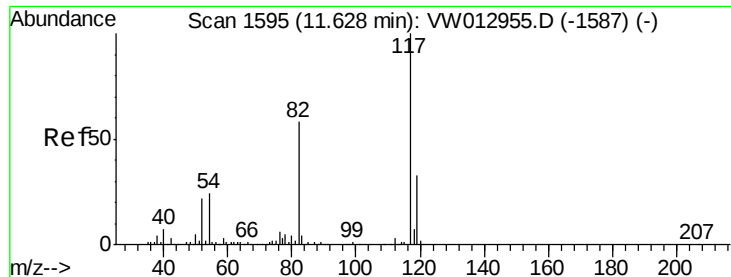
Ion Ratio Lower Upper

95 100

174 89.5 0.0 170.4

176 87.1 0.0 164.6

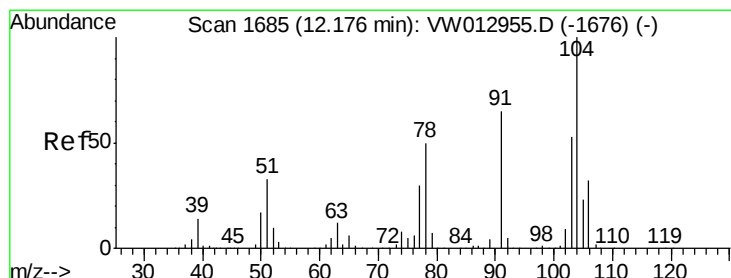
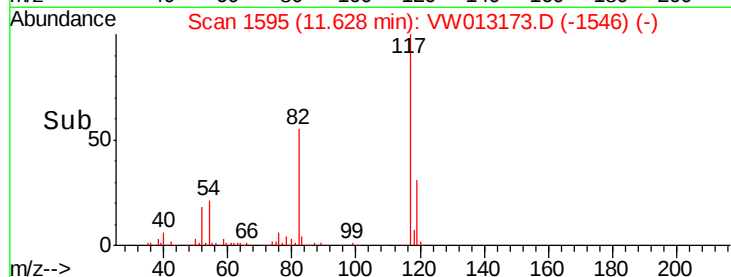
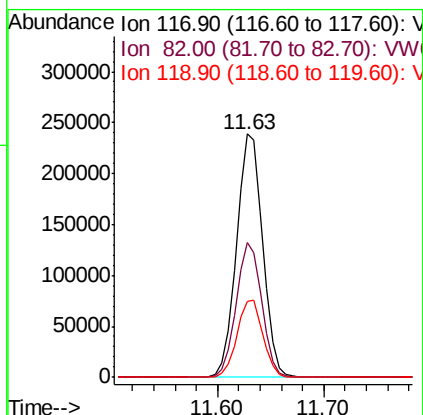
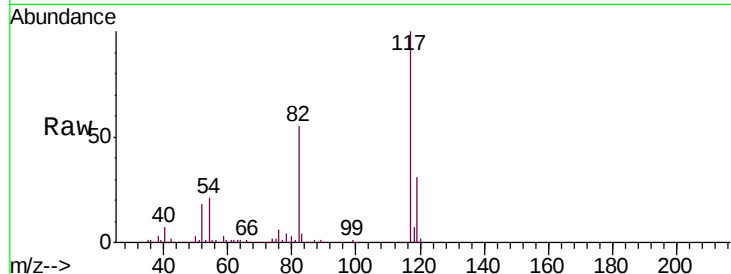




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

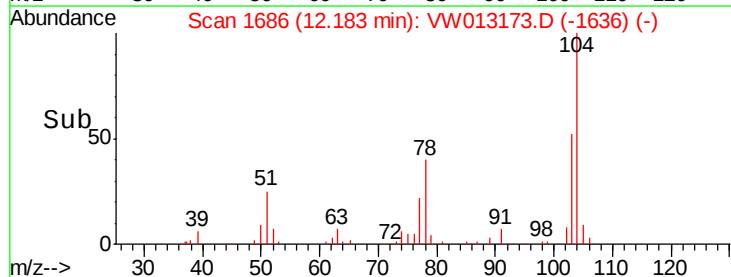
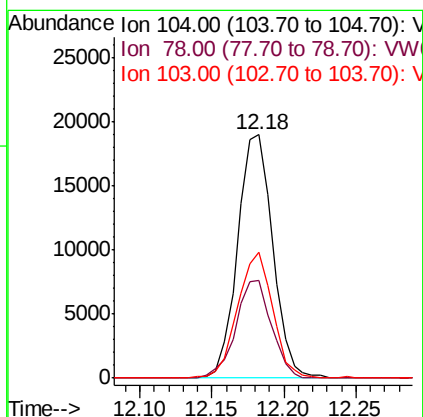
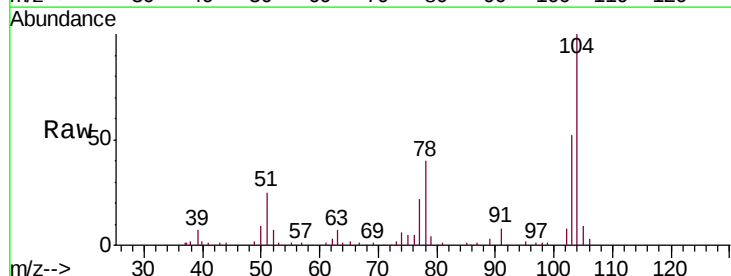
Instrument :
MSVOA_W
ClientSampleId :
SS-3

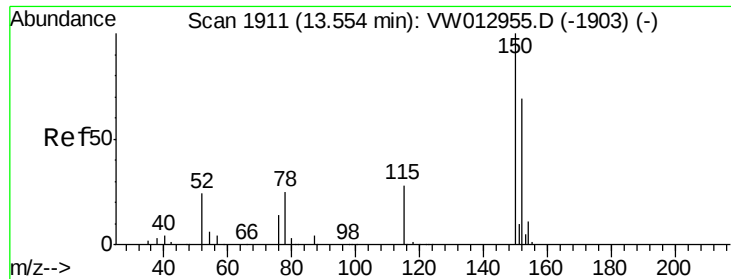
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.3	69.5
119	31.2	26.2	39.4



#70
Styrene
Concen: 3.893 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW013173.D
Acq: 19 Sep 2019 20:27

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.9	42.1	63.1#
103	51.8	44.2	66.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. 0.00 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampled :

SS-3

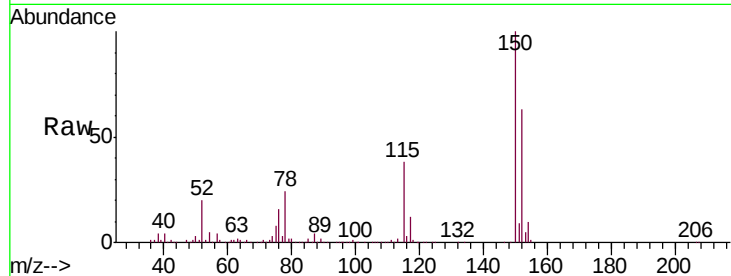
Tgt Ion:152 Resp: 176017

Ion Ratio Lower Upper

152 100

115 56.2 28.8 86.4

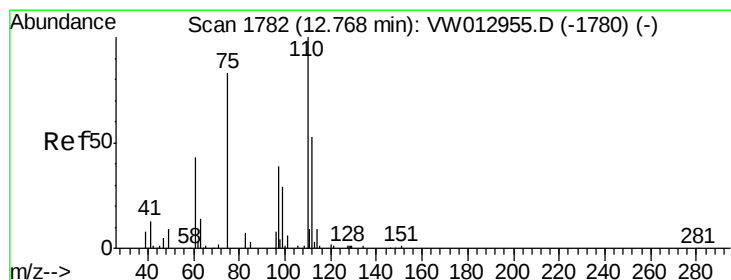
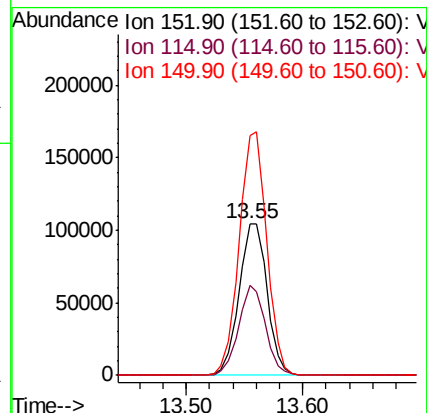
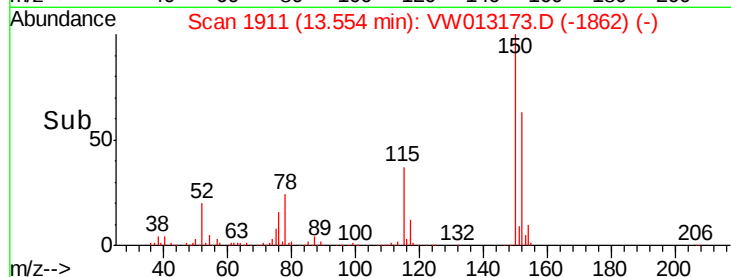
150 156.9 0.0 340.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 55.695 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013173.D

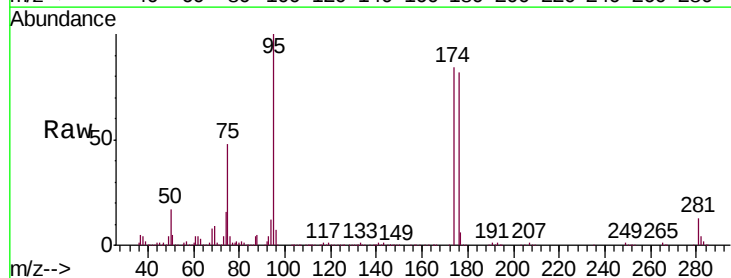
Acq: 19 Sep 2019 20:27

Tgt Ion: 75 Resp: 85869

Ion Ratio Lower Upper

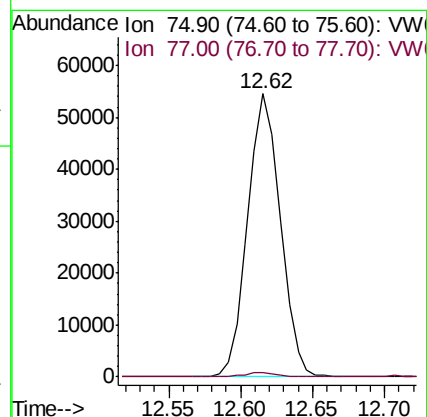
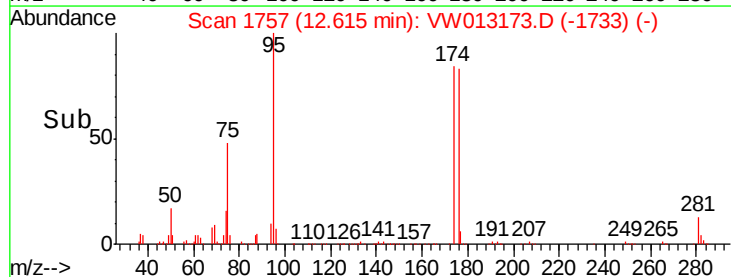
75 100

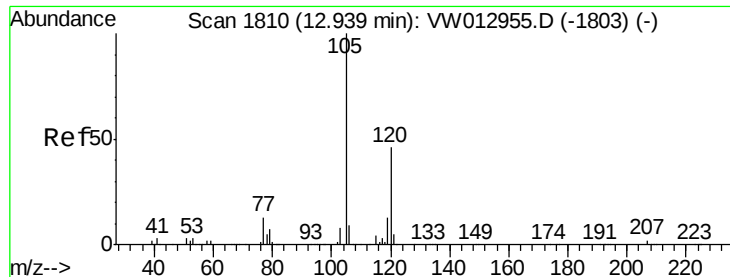
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

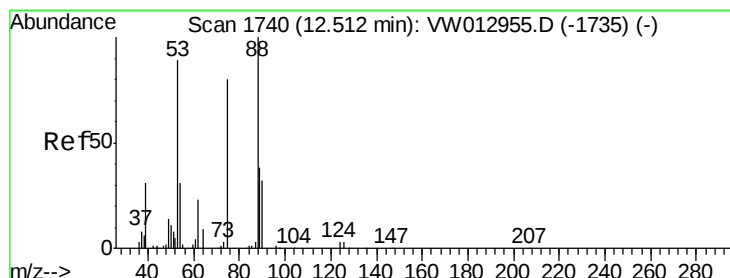
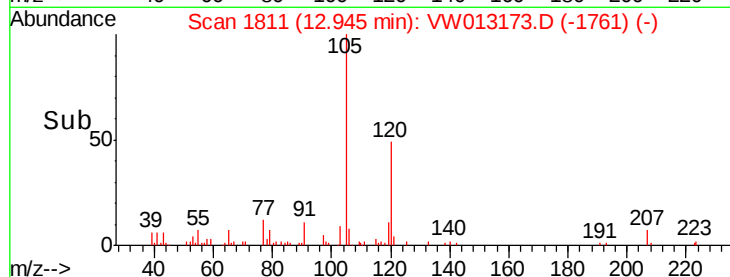
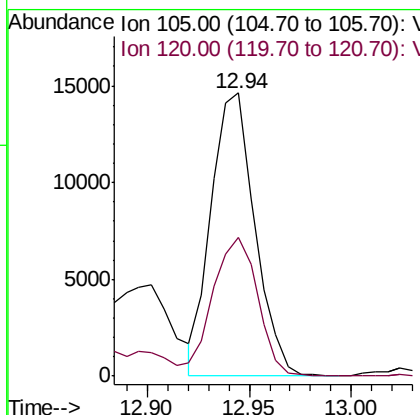
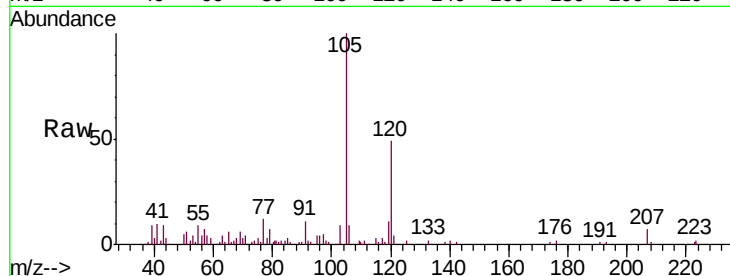




#80
 1,3,5-Trimethylbenzene
 Concen: 2.211 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. 0.01 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

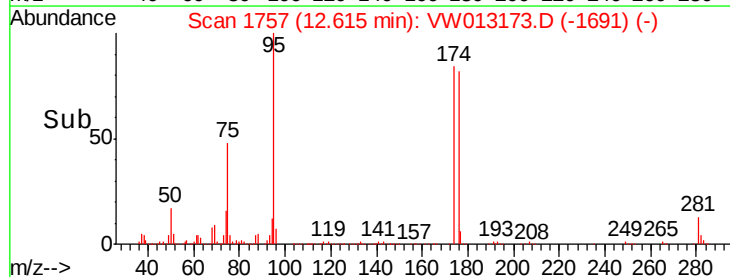
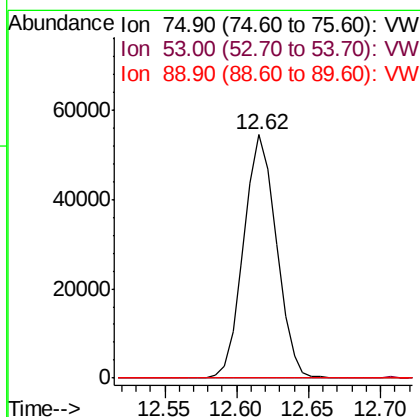
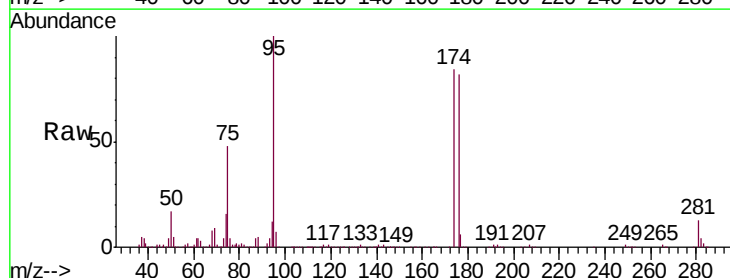
Instrument :
 MSVOA_W
 ClientSampled :
 SS-3

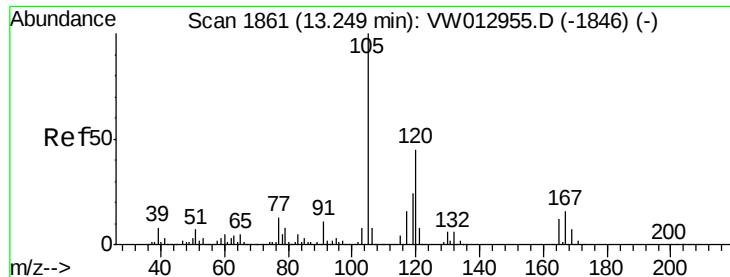
Tgt Ion: 105 Resp: 21823
 Ion Ratio Lower Upper
 105 100
 120 50.6 24.2 72.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 126.343 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

Tgt Ion: 75 Resp: 85869
 Ion Ratio Lower Upper
 75 100
 53 0.2 85.6 128.4#
 89 0.1 37.2 55.8#

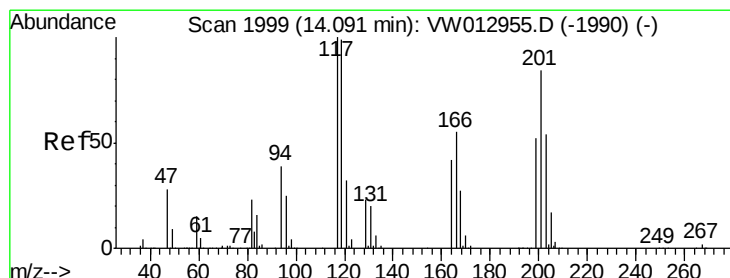
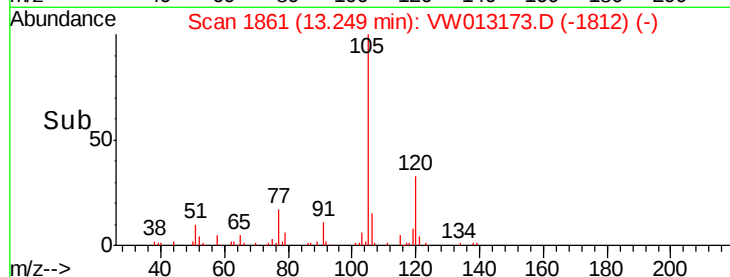
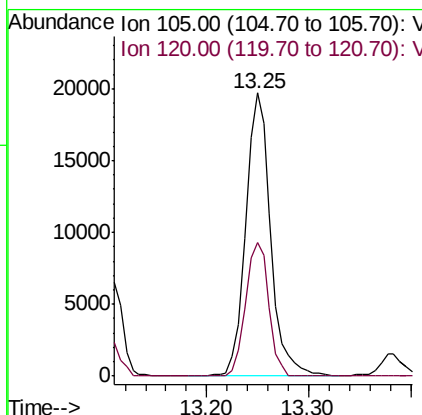
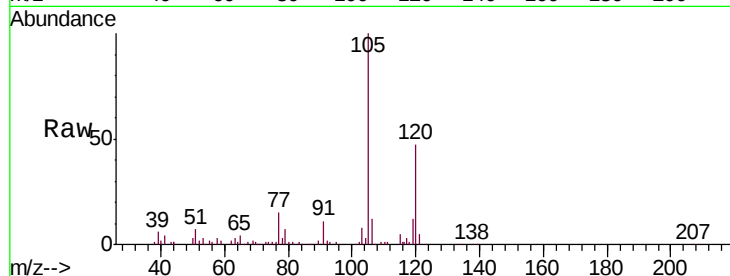




#84
 1,2,4-Trimethylbenzene
 Concen: 3.419 ug/l
 RT: 13.25 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

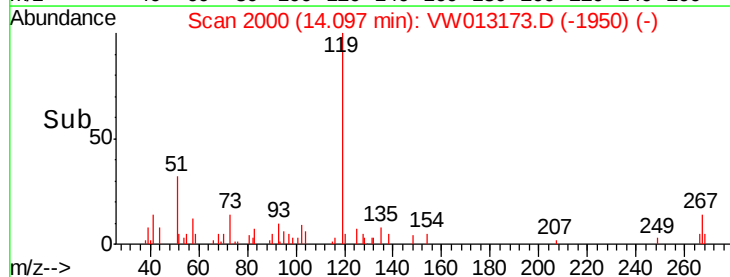
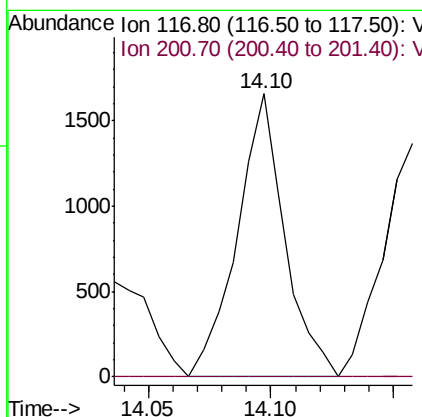
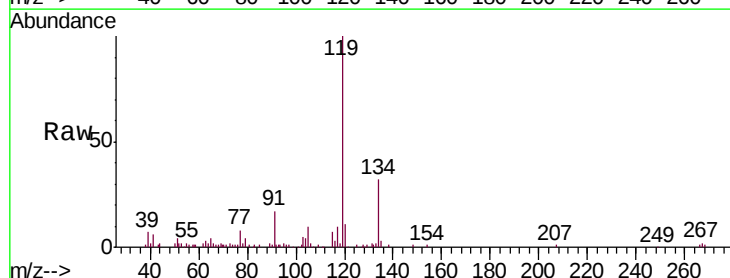
Instrument :
 MSVOA_W
 ClientSampled :
 SS-3

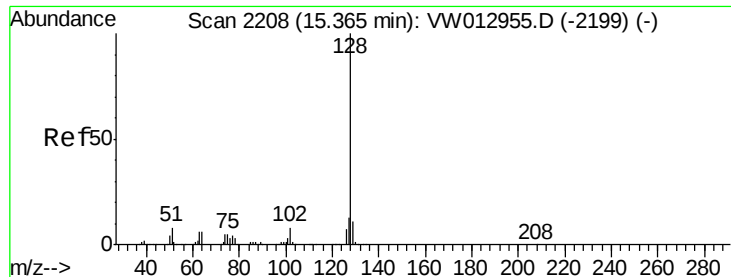
Tgt Ion:105 Resp: 33345
 Ion Ratio Lower Upper
 105 100
 120 44.0 21.9 65.7



#90
 Hexachloroethane
 Concen: 1.127 ug/l
 RT: 14.10 min Scan# 2000
 Delta R.T. 0.01 min
 Lab File: VW013173.D
 Acq: 19 Sep 2019 20:27

Tgt Ion:117 Resp: 2230
 Ion Ratio Lower Upper
 117 100
 201 0.0 45.3 135.9#





#95

Naphthalene

Concen: 1.048 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013173.D

Acq: 19 Sep 2019 20:27

Instrument :

MSVOA_W

ClientSampleId :

SS-3

Tgt Ion:128 Resp: 5842

Ion Ratio Lower Upper

128 100

127 15.8 11.0 16.6

129 0.0 8.6 12.8#

