

Data File : VW013115.D
Acq On : 18 Sep 2019 16:02
Operator : SY/VA
Sample : K4846-03RE
Misc : 5.01G/5ML/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SB-21-13.5-14.0

Quant Time: Sep 19 07:55:37 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	308801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	459582	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	392314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	171596	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	135395	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
35) Dibromofluoromethane	7.88	113	129205	51.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.62%	
50) Toluene-d8	10.32	98	539149	55.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.50%	
62) 4-Bromofluorobenzene	12.62	95	168491	48.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.04%	

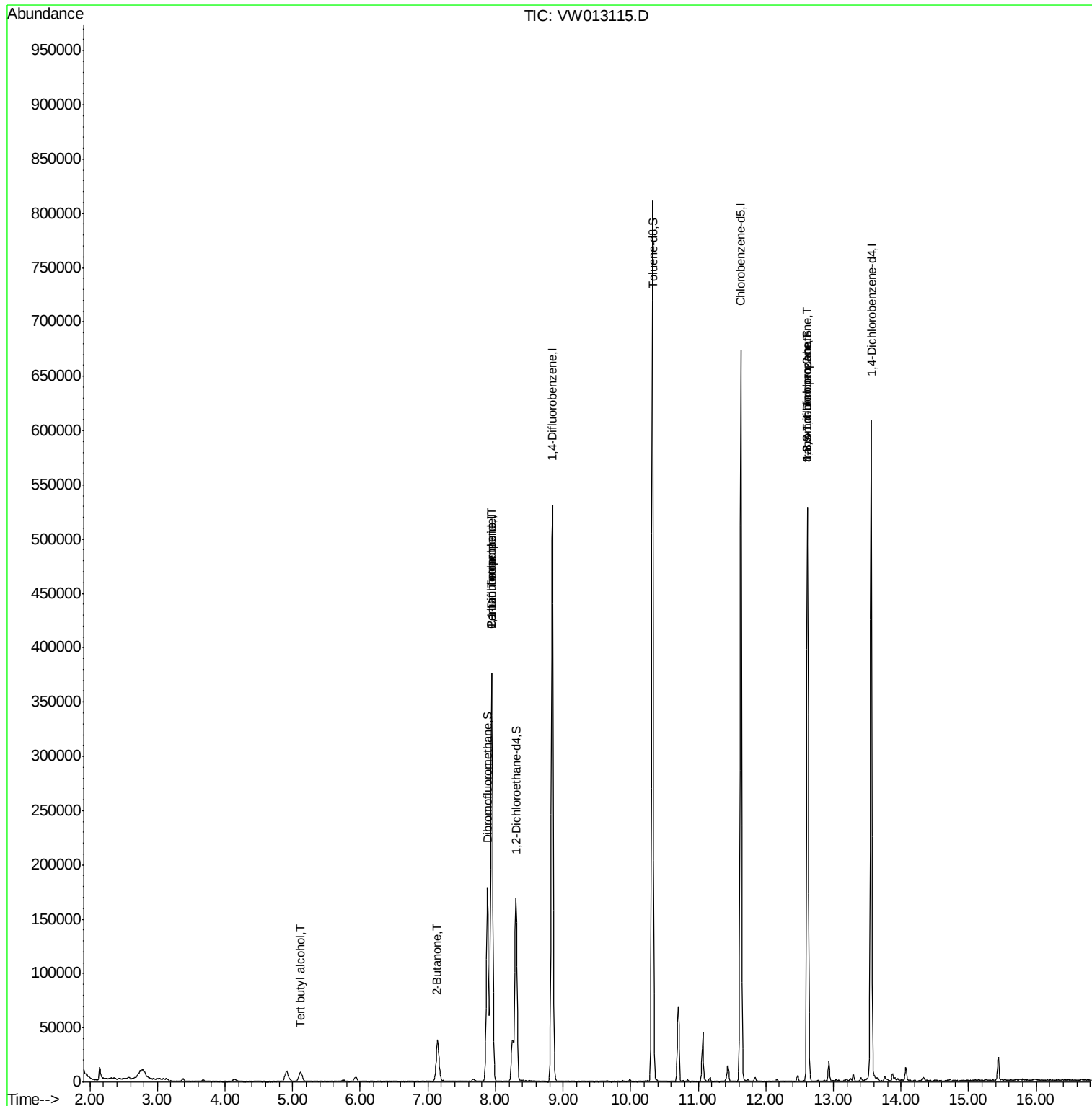
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	2.01	85	44	Below Cal	#	44
3) Chloromethane	2.20	50	267	Below Cal	#	83
11) Tert butyl alcohol	5.12	59	8654	25.736	ug/l #	72
13) Acrolein	3.77	56	25	Below Cal	#	15
16) Acetone	4.13	43	5867	Below Cal		95
20) Methylene Chloride	4.91	84	7820	Below Cal	#	87
25) 2-Butanone	7.13	43	1990	2.194	ug/l #	78
26) 2,2-Dichloropropane	7.14	77	3001	Below Cal	#	55
31) Cyclohexane	7.95	56	5212	Below Cal	#	1
36) 1,1-Dichloropropene	7.95	75	20441	5.566	ug/l #	51
38) Carbon Tetrachloride	7.94	117	25992	6.906	ug/l #	15
76) 1,2,3-Trichloropropane	12.62	75	81621	54.304	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	81621	123.187	ug/l #	7

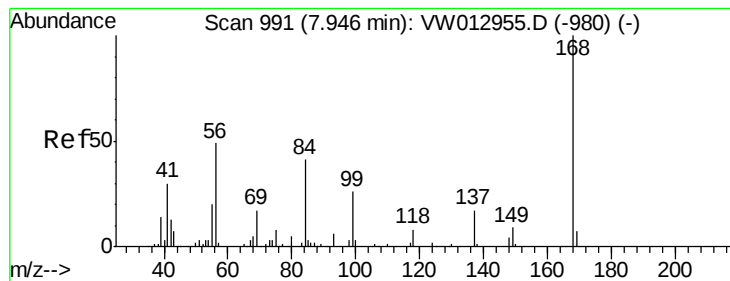
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

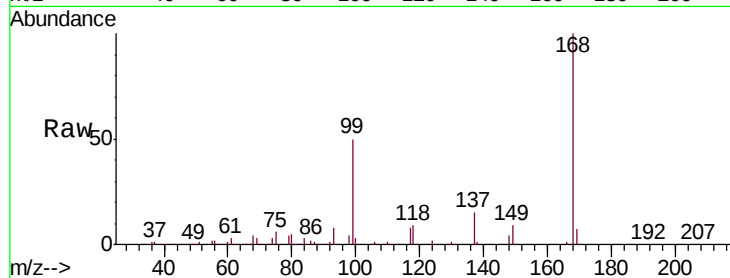
SB-21-13.5-14.0

Tgt Ion:168 Resp: 308801

Ion Ratio Lower Upper

168 100

99 50.4 46.2 69.2



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

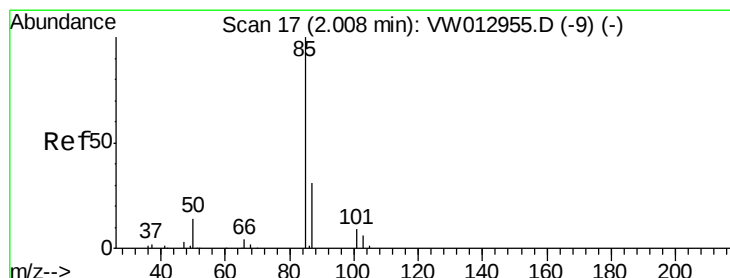
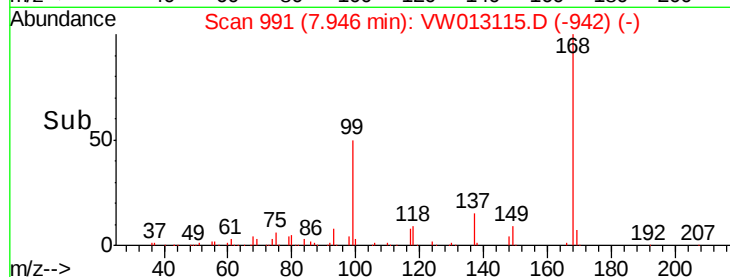
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 18

Delta R.T. 0.01 min

Lab File: VW013115.D

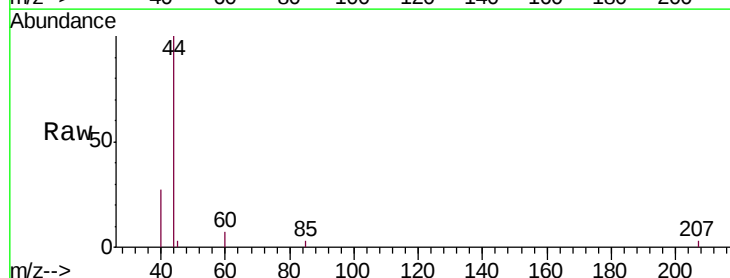
Acq: 18 Sep 2019 16:02

Tgt Ion: 85 Resp: 44

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

2.01

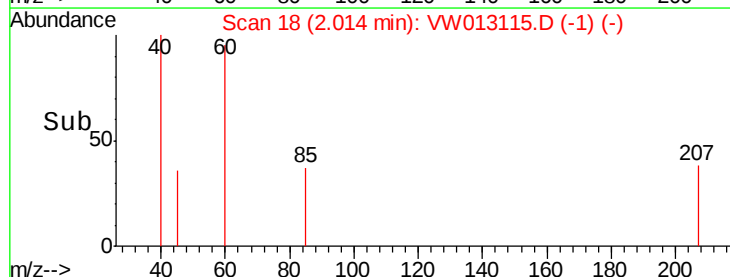
60

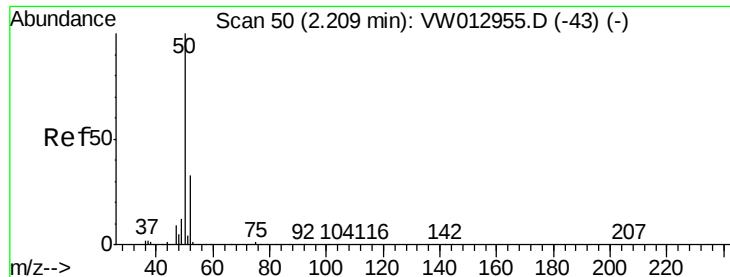
40

20

0

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

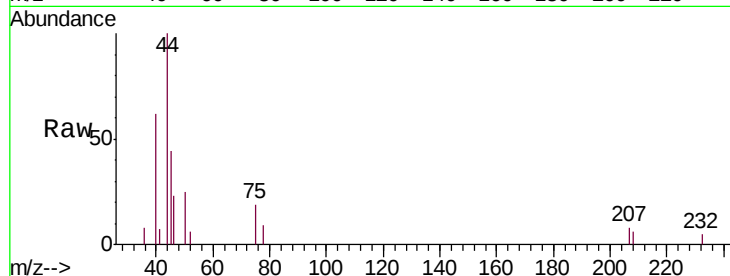
SB-21-13.5-14.0

Tgt Ion: 50 Resp: 267

Ion Ratio Lower Upper

50 100

52 23.7 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

250

200

150

100

50

0

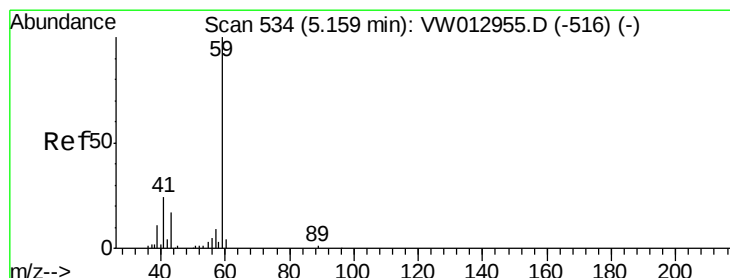
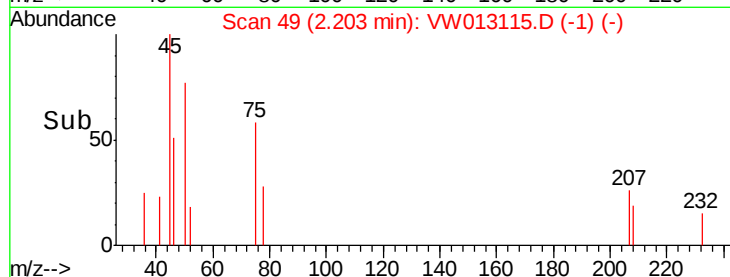
2.18

2.20

2.22

2.24

Time-->



#11

Tert butyl alcohol

Concen: 25.736 ug/l

RT: 5.12 min Scan# 527

Delta R.T. -0.04 min

Lab File: VW013115.D

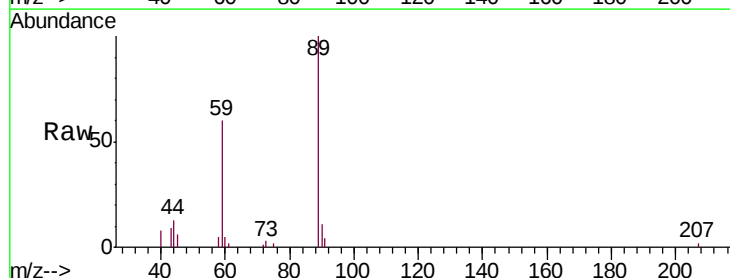
Acq: 18 Sep 2019 16:02

Tgt Ion: 59 Resp: 8654

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

2500

2000

1500

1000

500

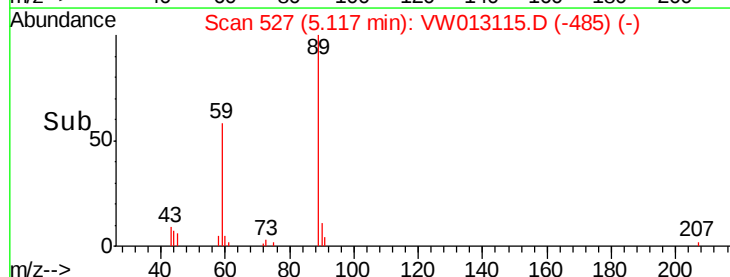
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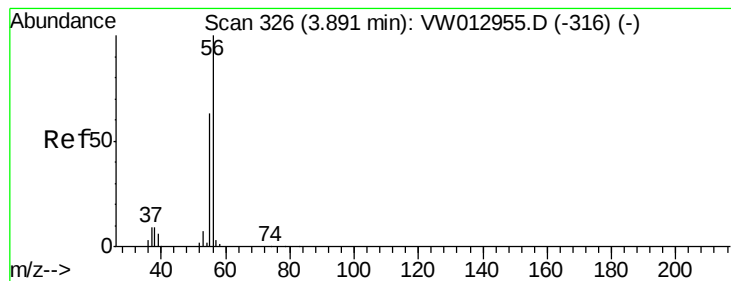
5.00

5.10

5.20

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.77 min Scan# 306

Delta R.T. -0.12 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

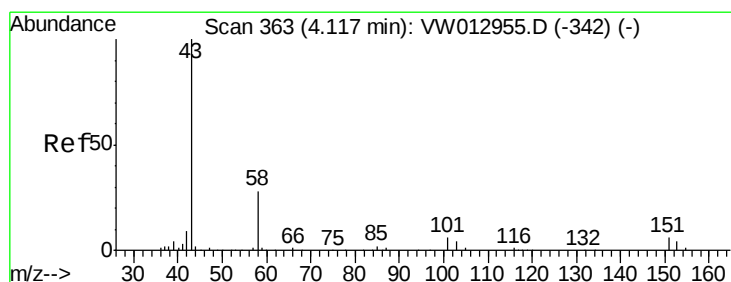
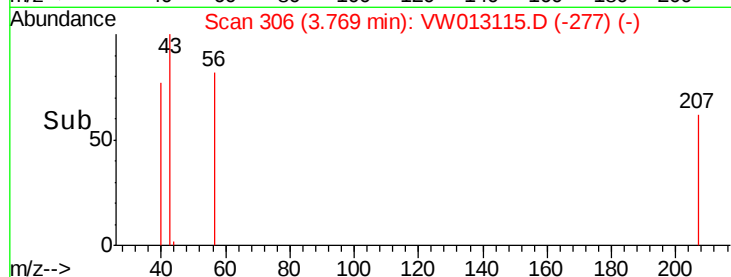
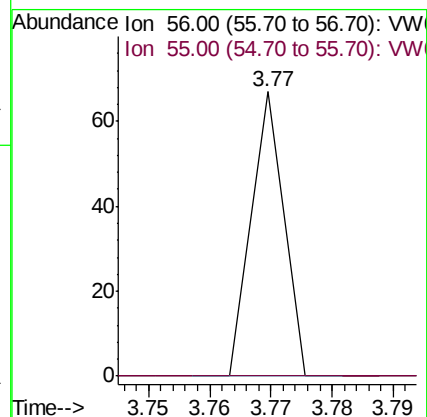
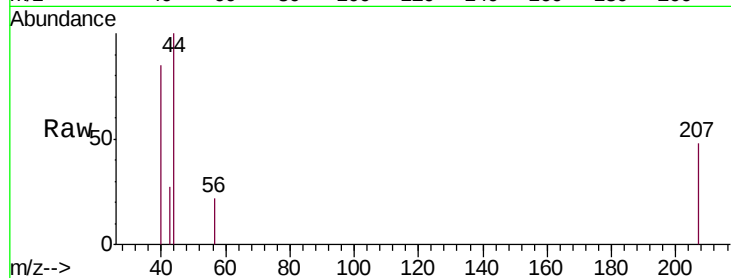
SB-21-13.5-14.0

Tgt Ion: 56 Resp: 25

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: Below Cal

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW013115.D

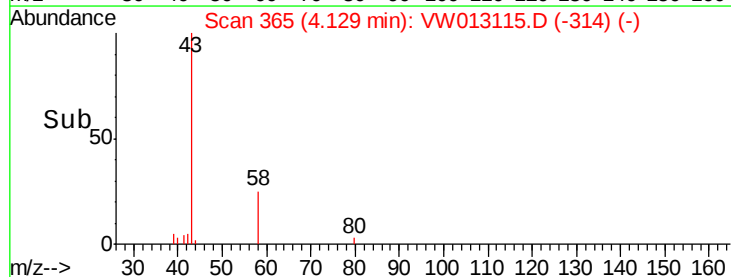
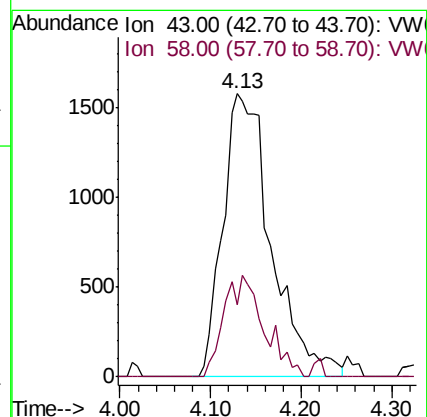
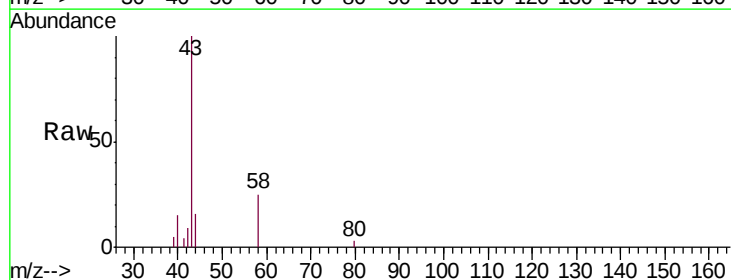
Acq: 18 Sep 2019 16:02

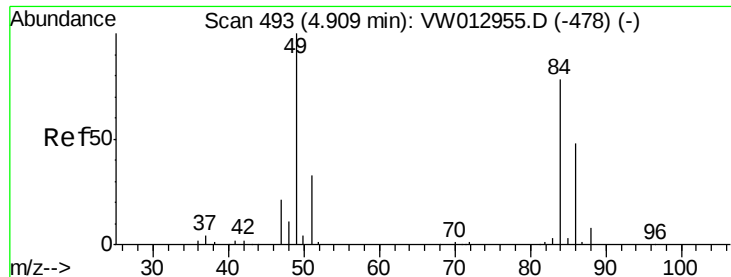
Tgt Ion: 43 Resp: 5867

Ion Ratio Lower Upper

43 100

58 25.5 22.3 33.5

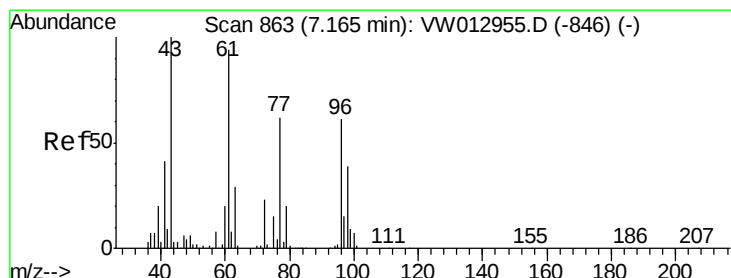
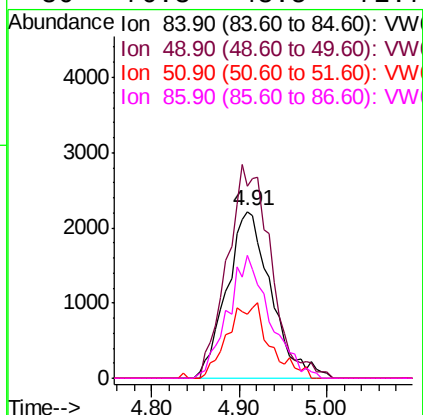
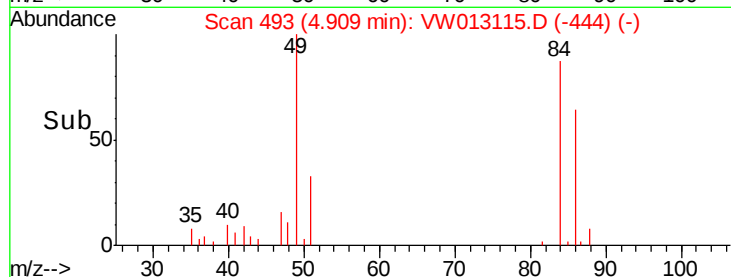
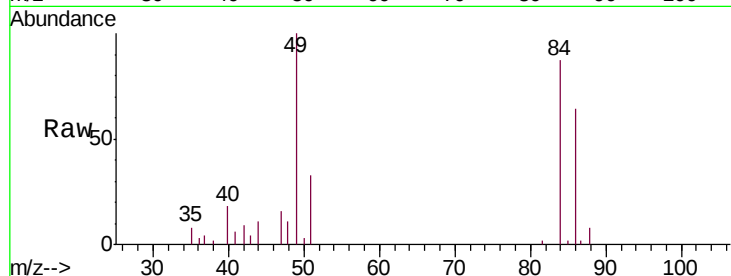




#20
Methylene Chloride
Concen: Below Cal
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

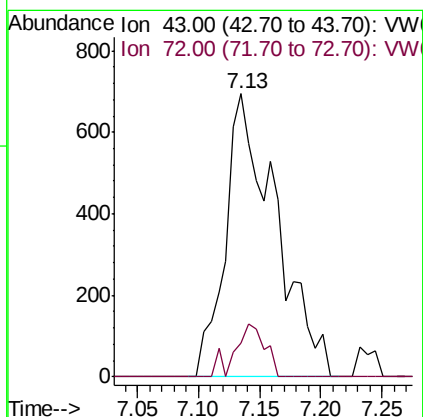
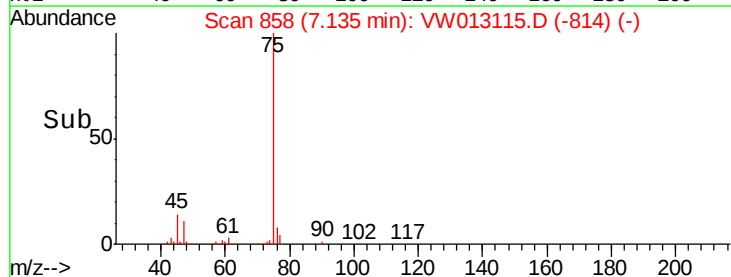
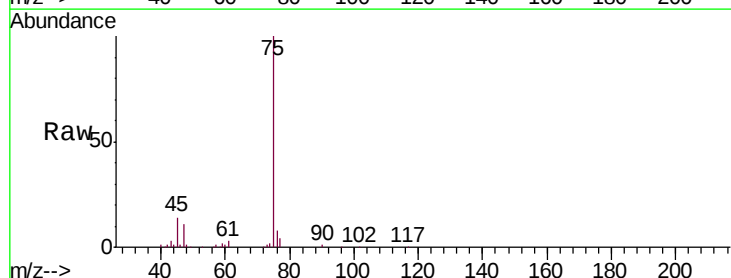
Instrument :
MSVOA_W
ClientSampleId :
SB-21-13.5-14.0

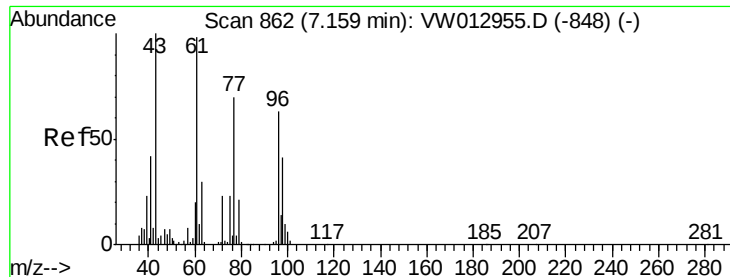
Tgt Ion: 84 Resp: 7820
Ion Ratio Lower Upper
84 100
49 114.9 102.0 153.0
51 38.4 34.0 51.0
86 76.3 48.5 72.7#



#25
2-Butanone
Concen: 2.194 ug/l
RT: 7.13 min Scan# 858
Delta R.T. -0.03 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

Tgt Ion: 43 Resp: 1990
Ion Ratio Lower Upper
43 100
72 12.1 18.2 27.4#

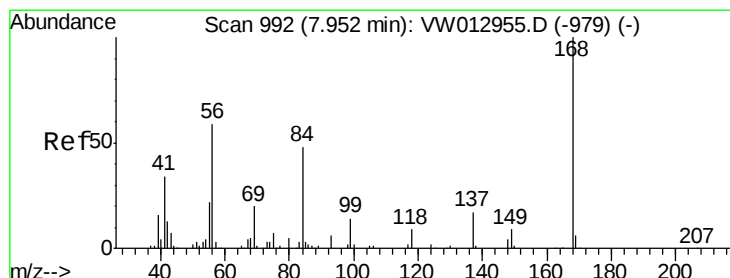
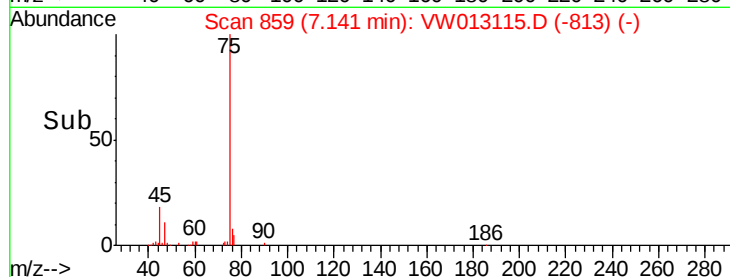
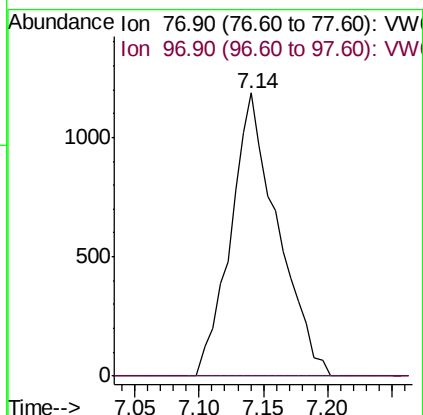
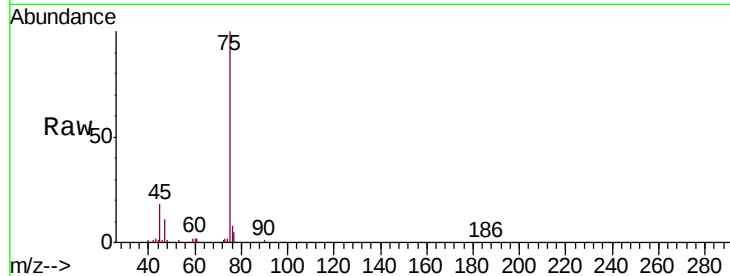




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.14 min Scan# 859
Delta R.T. -0.02 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

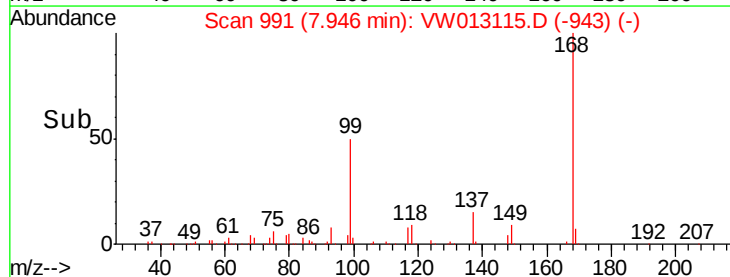
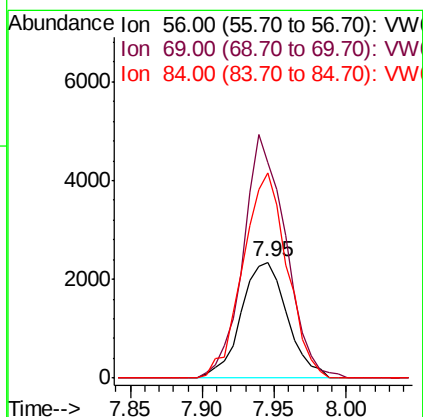
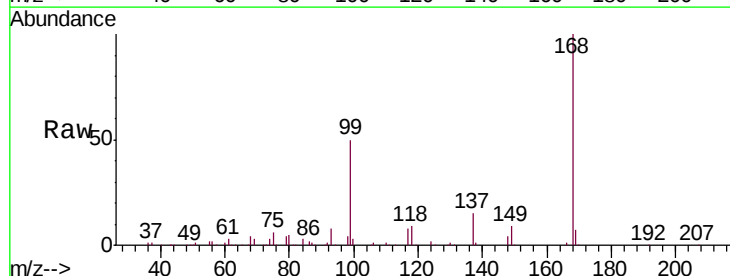
Instrument :
MSVOA_W
ClientSampled :
SB-21-13.5-14.0

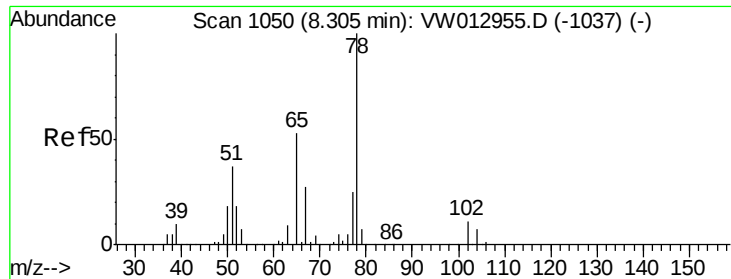
Tgt Ion: 77 Resp: 3001
Ion Ratio Lower Upper
77 100
97 0.0 10.7 32.1#



#31
Cyclohexane
Concen: Below Cal
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

Tgt Ion: 56 Resp: 5212
Ion Ratio Lower Upper
56 100
69 185.6 27.0 40.6#
84 177.0 66.2 99.2#





#33

1,2-Dichloroethane-d4

Concen: 47.474 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

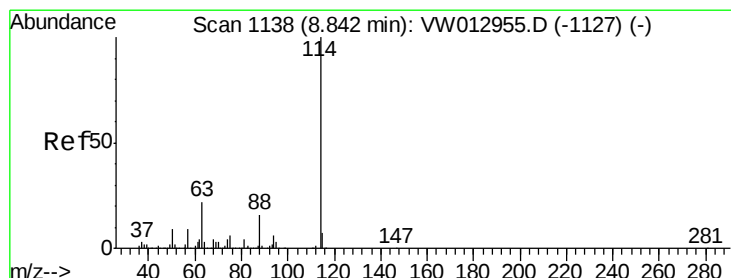
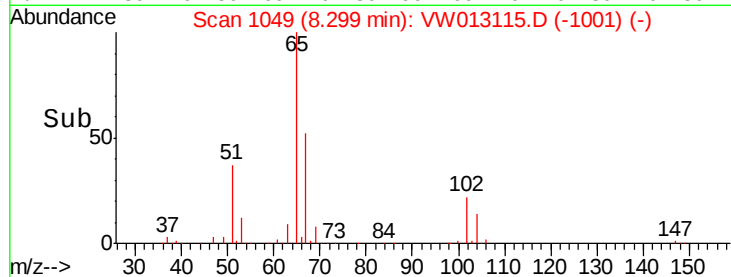
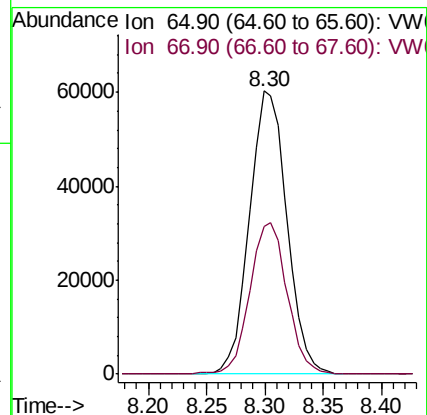
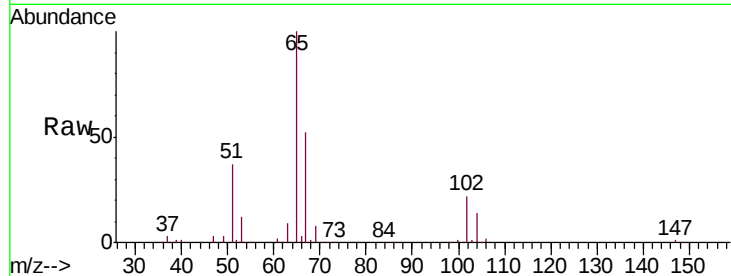
SB-21-13.5-14.0

Tgt Ion: 65 Resp: 135395

Ion Ratio Lower Upper

65 100

67 53.3 0.0 101.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

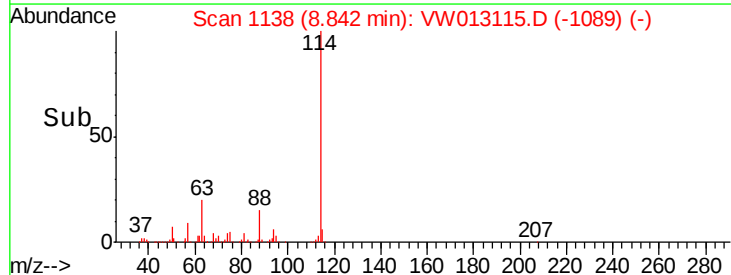
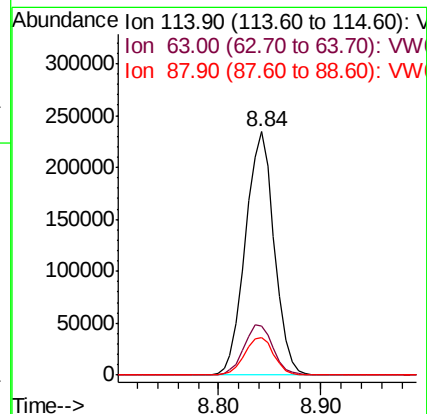
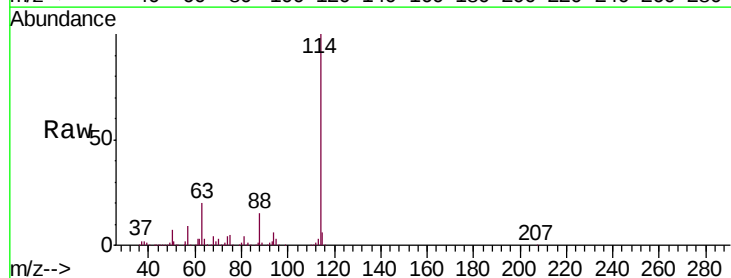
Tgt Ion: 114 Resp: 459582

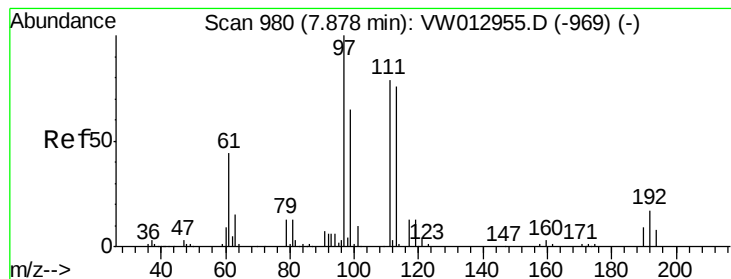
Ion Ratio Lower Upper

114 100

63 20.3 0.0 43.4

88 15.5 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.812 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

SB-21-13.5-14.0

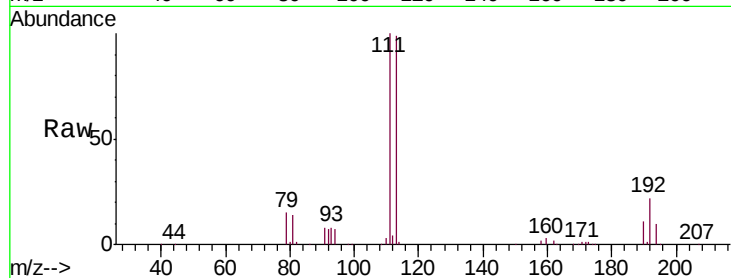
Tgt Ion: 113 Resp: 129205

Ion Ratio Lower Upper

113 100

111 102.7 82.8 124.2

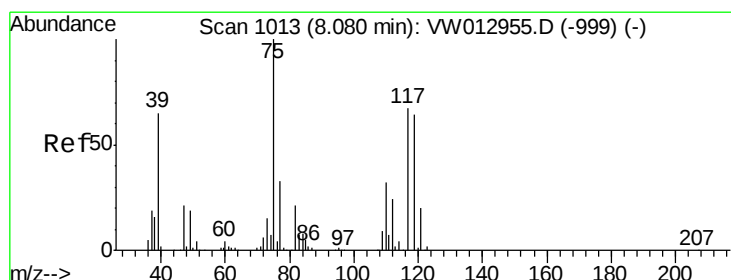
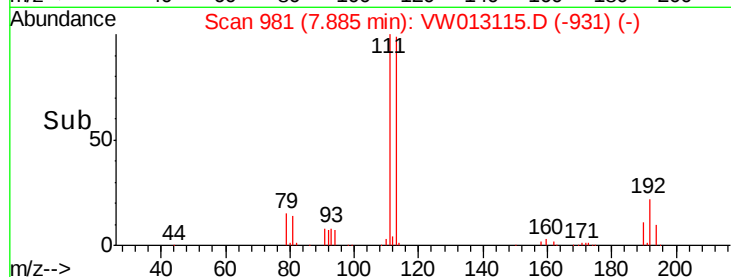
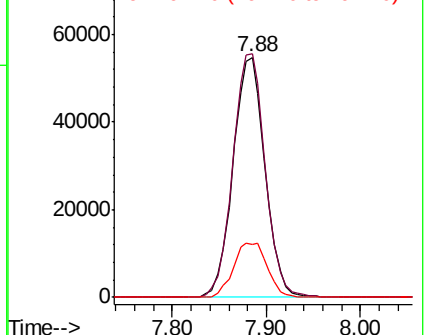
192 24.1 17.8 26.8



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: 5.566 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

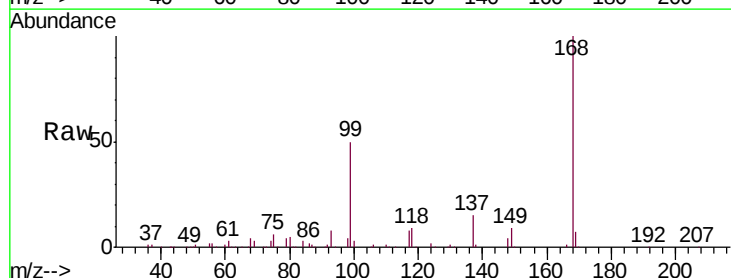
Tgt Ion: 75 Resp: 20441

Ion Ratio Lower Upper

75 100

110 9.9 16.4 49.1#

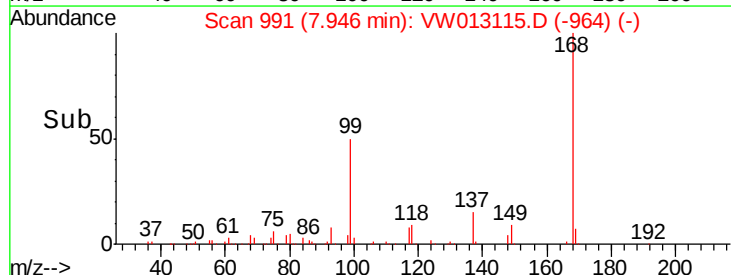
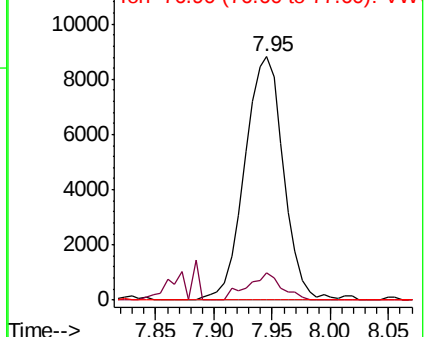
77 0.0 25.1 37.7#

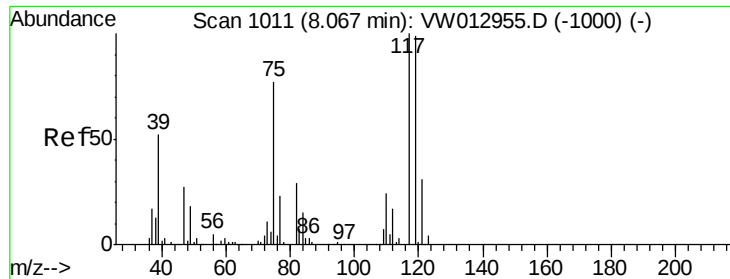


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 6.906 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.13 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

SB-21-13.5-14.0

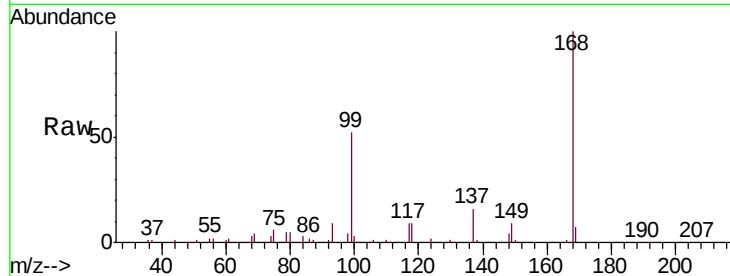
Tgt Ion:117 Resp: 25992

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.0#

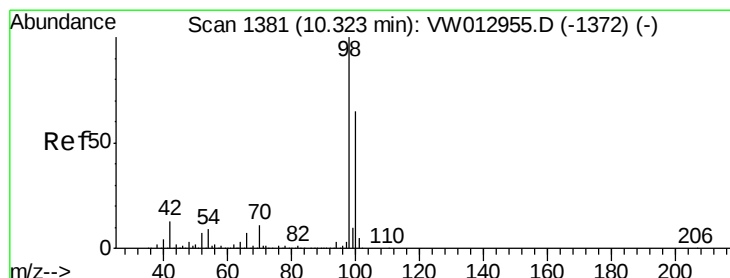
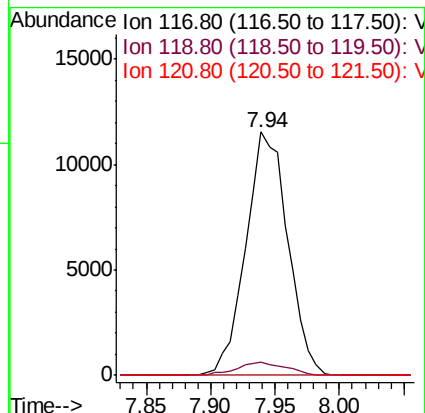
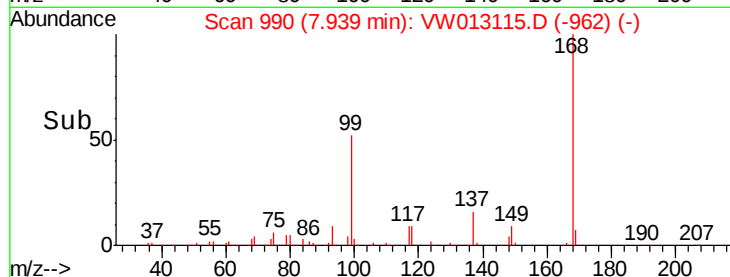
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 55.250 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW013115.D

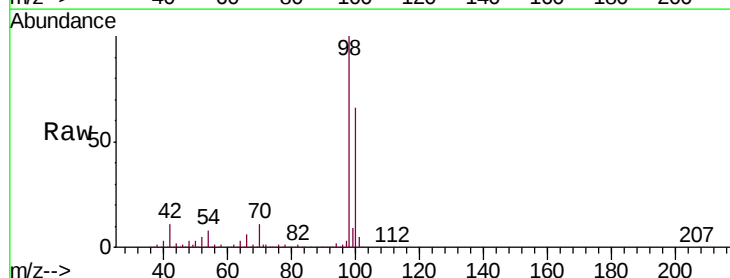
Acq: 18 Sep 2019 16:02

Tgt Ion: 98 Resp: 539149

Ion Ratio Lower Upper

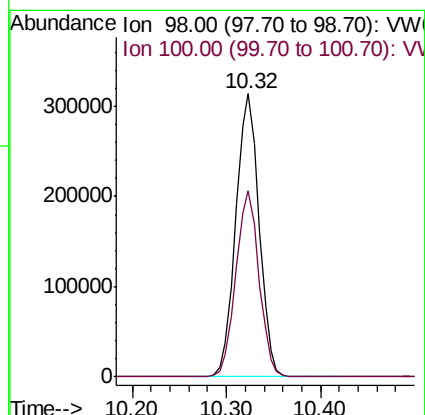
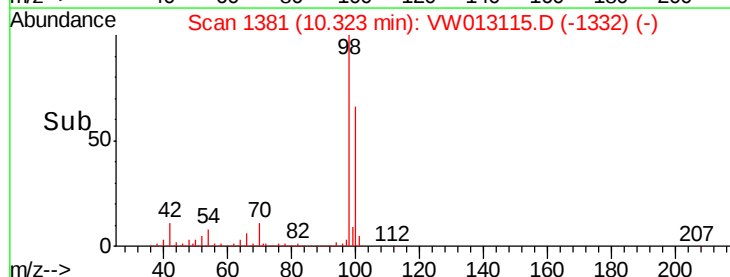
98 100

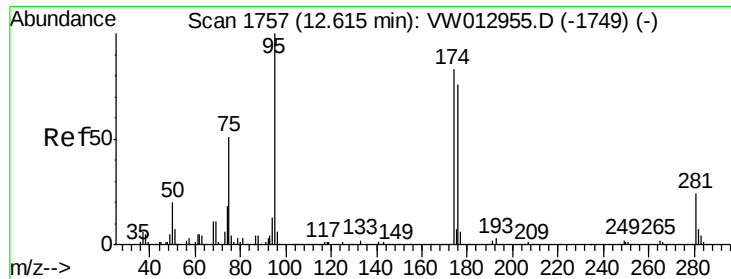
100 65.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

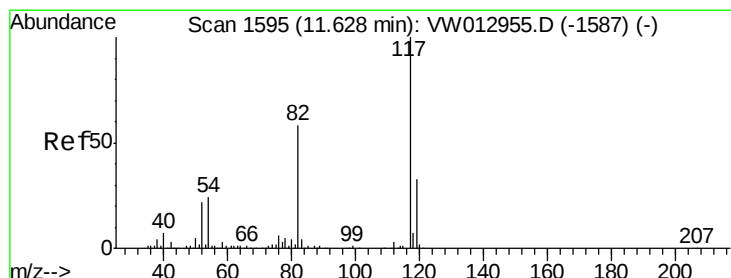
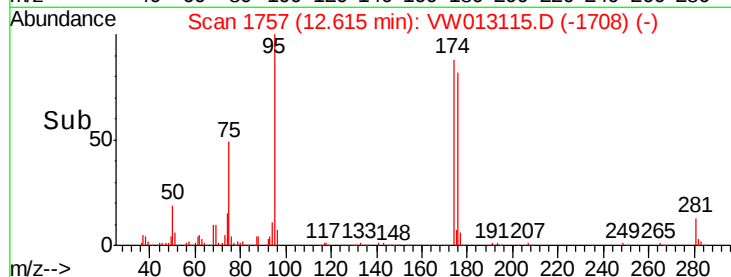
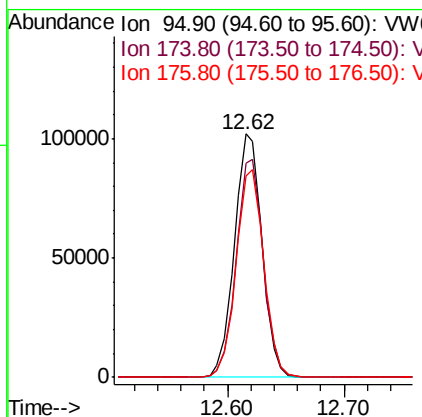
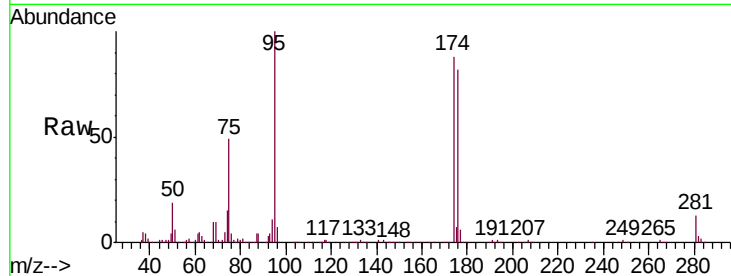




#62
4-Bromofluorobenzene
Concen: 48.019 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

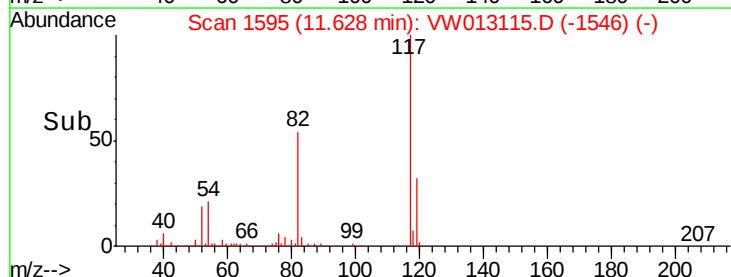
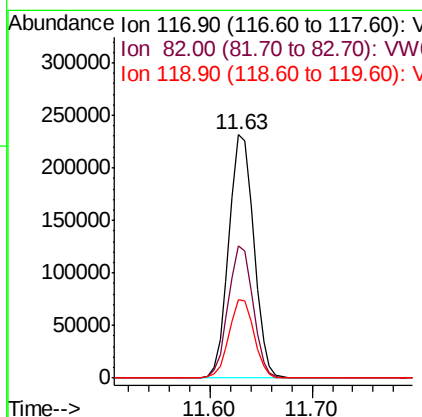
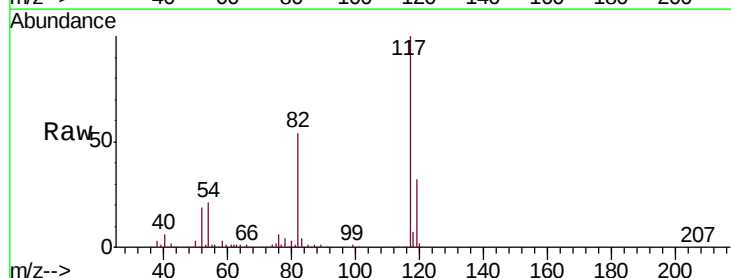
Instrument :
MSVOA_W
ClientSampled :
SB-21-13.5-14.0

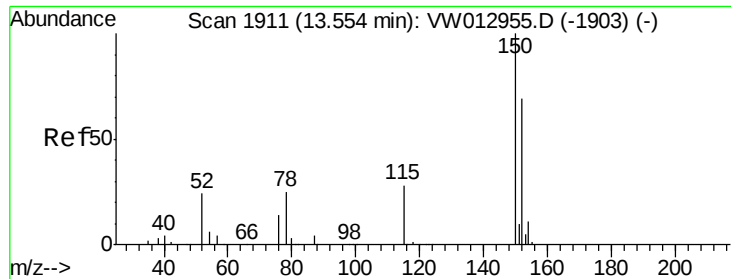
Tgt Ion: 95 Resp: 168491
Ion Ratio Lower Upper
95 100
174 87.9 0.0 170.4
176 85.5 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013115.D
Acq: 18 Sep 2019 16:02

Tgt Ion: 117 Resp: 392314
Ion Ratio Lower Upper
117 100
82 54.2 46.3 69.5
119 32.0 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.01 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

SB-21-13.5-14.0

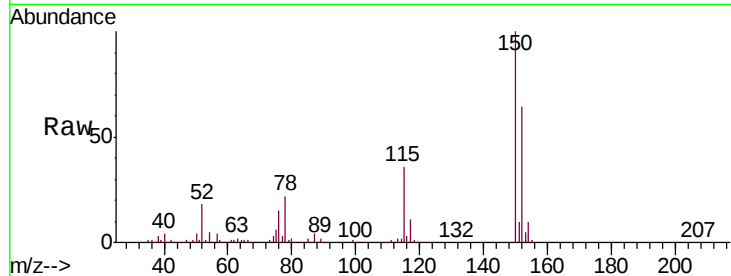
Tgt Ion:152 Resp: 171596

Ion Ratio Lower Upper

152 100

115 56.2 28.8 86.4

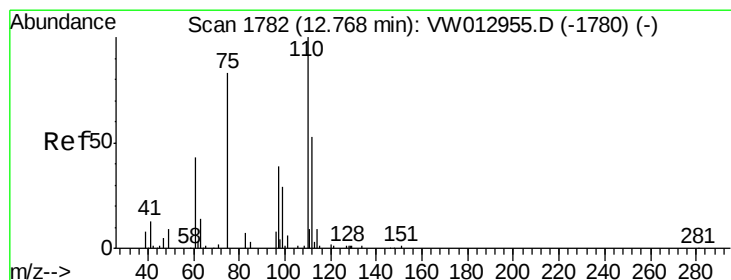
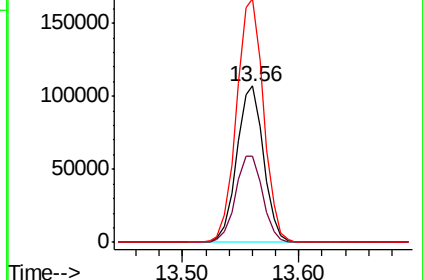
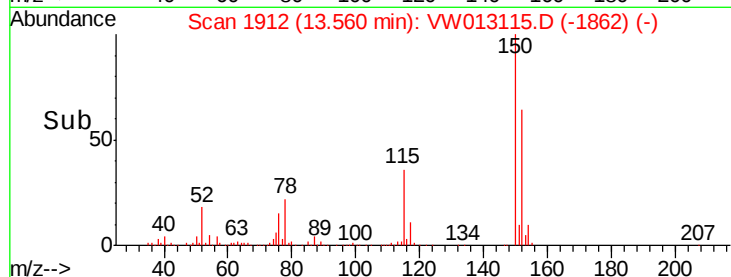
150 156.9 0.0 340.2



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: 54.304 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW013115.D

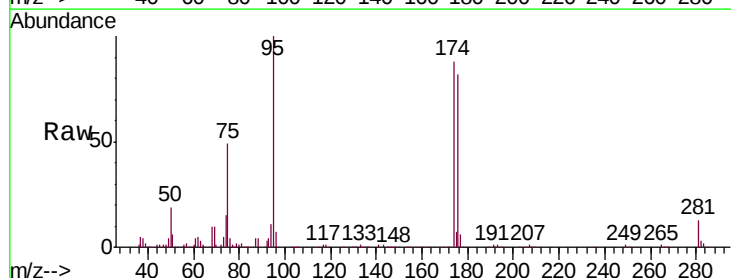
Acq: 18 Sep 2019 16:02

Tgt Ion: 75 Resp: 81621

Ion Ratio Lower Upper

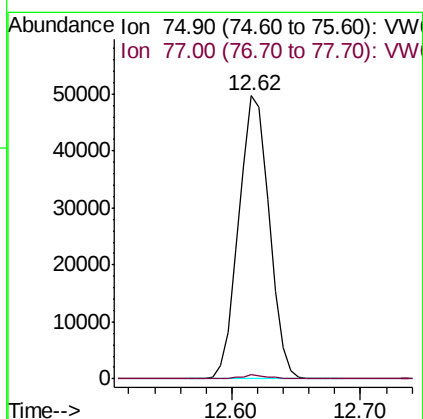
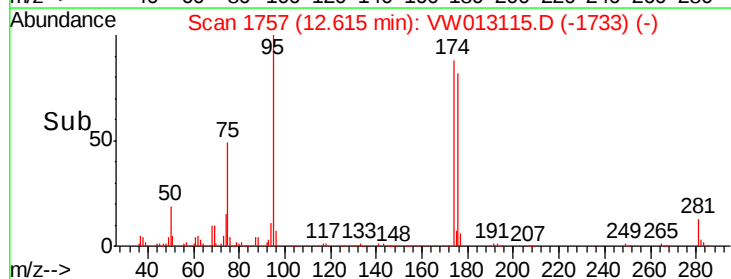
75 100

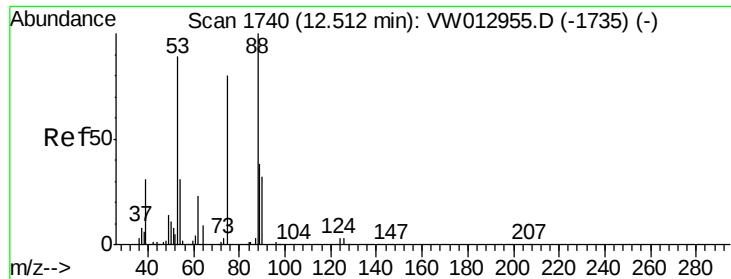
77 1.3 0.0 0.0#



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: 123.187 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013115.D

Acq: 18 Sep 2019 16:02

Instrument :

MSVOA_W

ClientSampleId :

SB-21-13.5-14.0

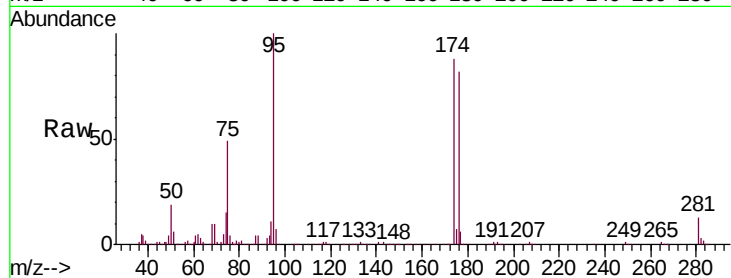
Tgt Ion: 75 Resp: 81621

Ion Ratio Lower Upper

75 100

53 0.1 85.6 128.4#

89 0.0 37.2 55.8#



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

