

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091619\
 Data File : VW013070.D
 Acq On : 17 Sep 2019 05:22
 Operator : SY/VA
 Sample : K4851-06
 Misc : 5.85G/5ML/MSVOA_W/SOIL
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB-4C-(9)

Quant Time: Sep 17 07:30:14 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	343158	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	528826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	436877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	179608	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	172727	54.50	ug/l	0.00
Spiked Amount			Recovery	=	109.00%	
35) Dibromofluoromethane	7.88	113	147771	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
50) Toluene-d8	10.32	98	620153	55.23	ug/l	0.00
Spiked Amount			Recovery	=	110.46%	
62) 4-Bromofluorobenzene	12.62	95	191555	47.44	ug/l	0.00
Spiked Amount			Recovery	=	94.88%	

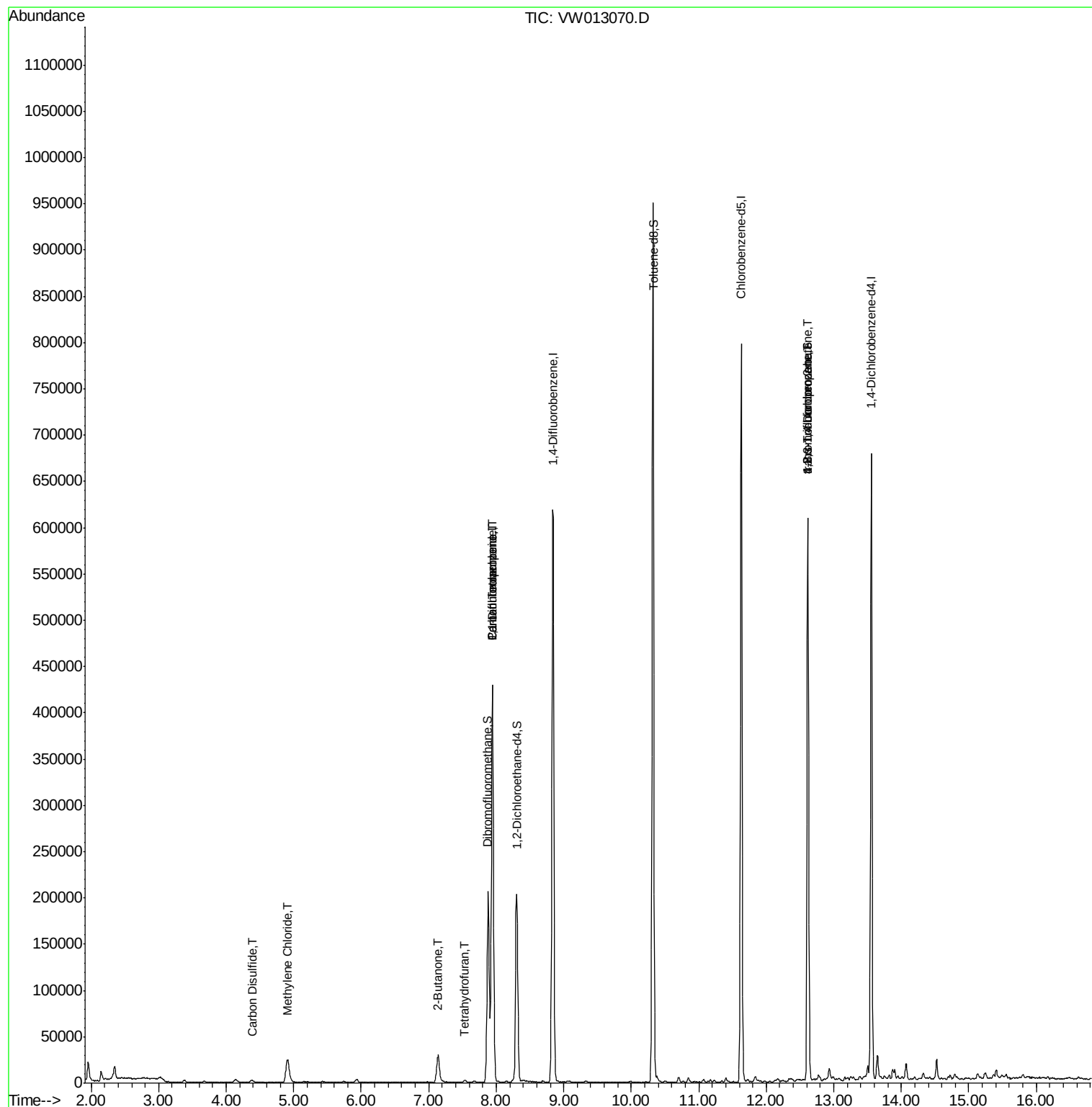
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	74	Below Cal	#	44
3) Chloromethane	2.20	50	461	Below Cal	#	41
11) Tert butyl alcohol	5.18	59	232	Below Cal	#	64
13) Acrolein	3.87	56	22	Below Cal	#	1
16) Acetone	4.14	43	7454	Below Cal		96
17) Carbon Disulfide	4.39	76	5421	1.148	ug/l #	88
20) Methylene Chloride	4.90	84	19403	2.668	ug/l	95
25) 2-Butanone	7.15	43	1790	1.776	ug/l	92
26) 2,2-Dichloropropane	7.13	77	2443	Below Cal	#	55
29) Tetrahydrofuran	7.53	42	1695	2.952	ug/l #	85
31) Cyclohexane	7.94	56	7136	Below Cal	#	1
36) 1,1-Dichloropropene	7.94	75	24971	5.909	ug/l #	51
38) Carbon Tetrachloride	7.94	117	32269	7.452	ug/l #	15
76) 1,2,3-Trichloropropane	12.62	75	97754	62.136	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	97754	140.955	ug/l #	7

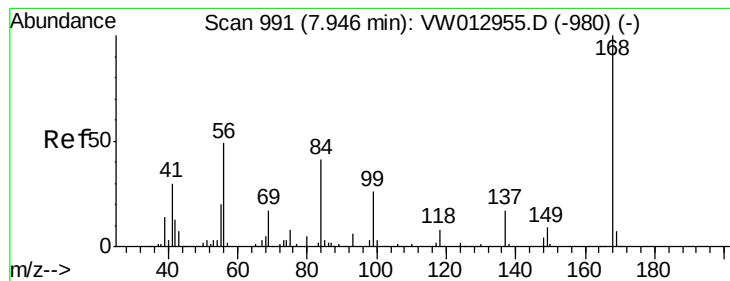
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

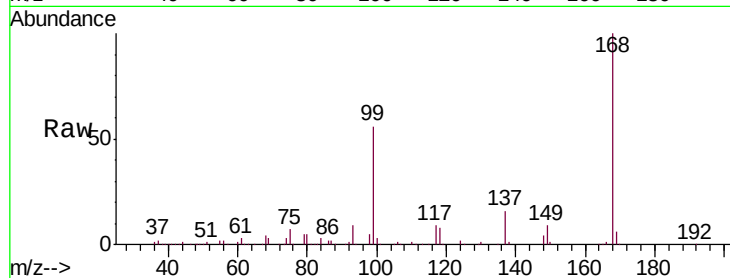
SB-4C-(9)

Tgt Ion:168 Resp: 343158

Ion Ratio Lower Upper

168 100

99 55.5 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

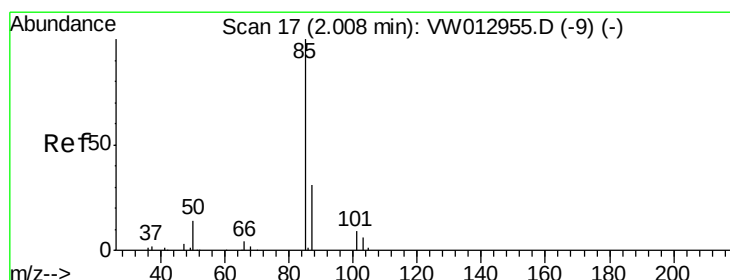
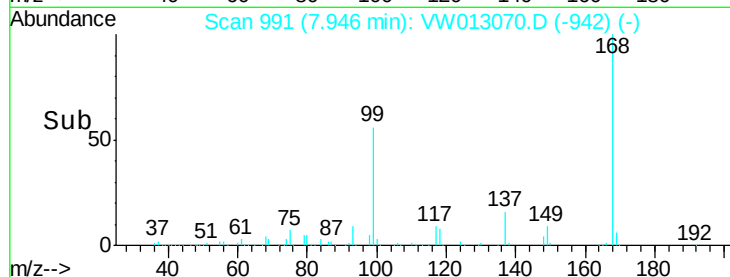
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW013070.D

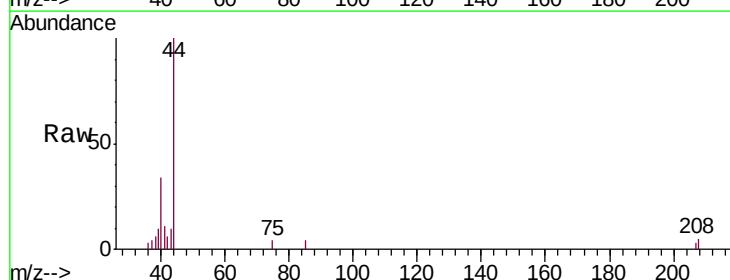
Acq: 17 Sep 2019 05:22

Tgt Ion: 85 Resp: 74

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

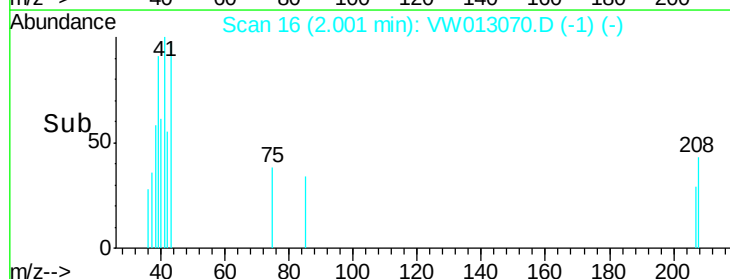
60

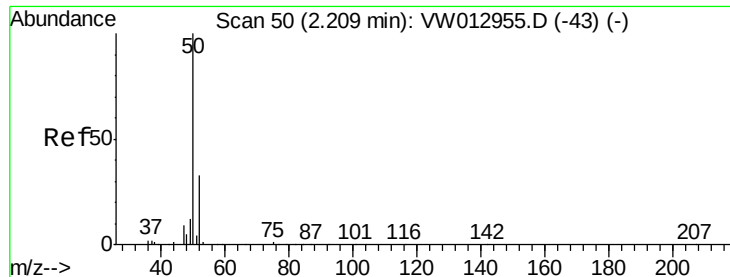
40

20

0

Time--> 1.98 2.00 2.02 2.04





#3

Chloromethane

Concen: Below Cal

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampled :

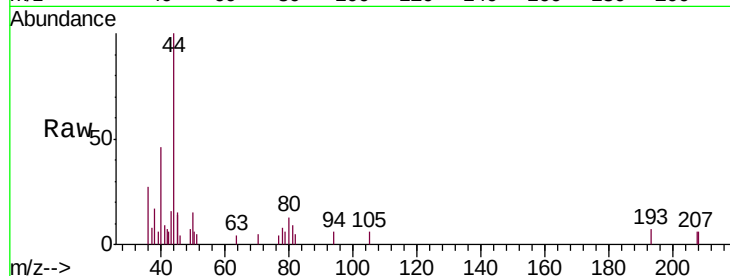
SB-4C-(9)

Tgt Ion: 50 Resp: 461

Ion Ratio Lower Upper

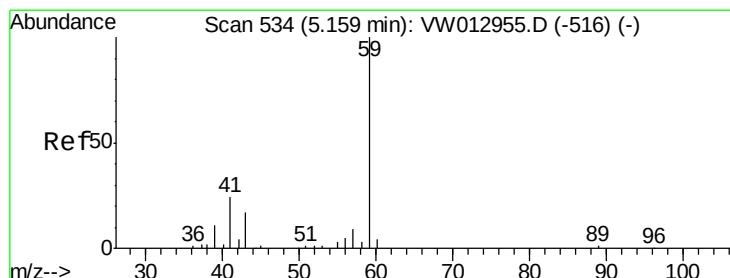
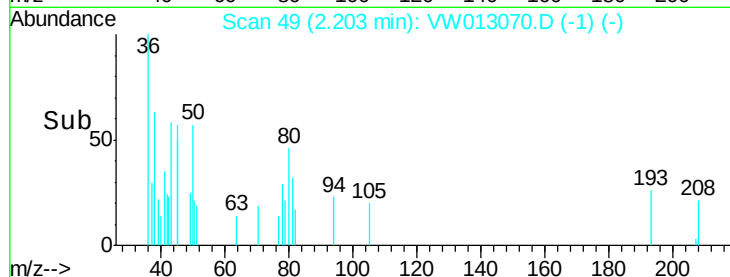
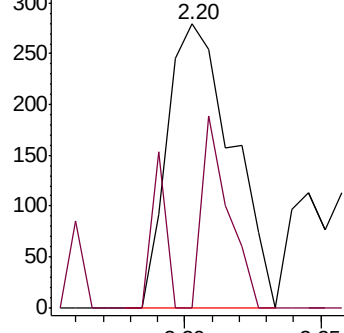
50 100

52 0.0 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 538

Delta R.T. 0.02 min

Lab File: VW013070.D

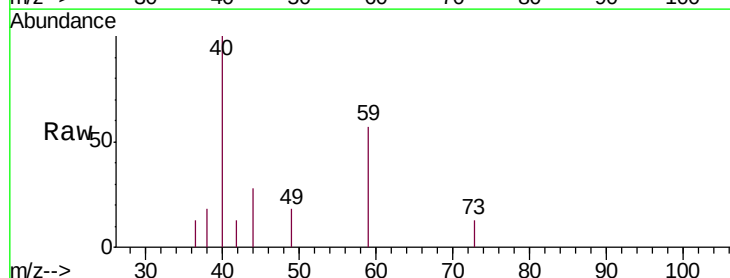
Acq: 17 Sep 2019 05:22

Tgt Ion: 59 Resp: 232

Ion Ratio Lower Upper

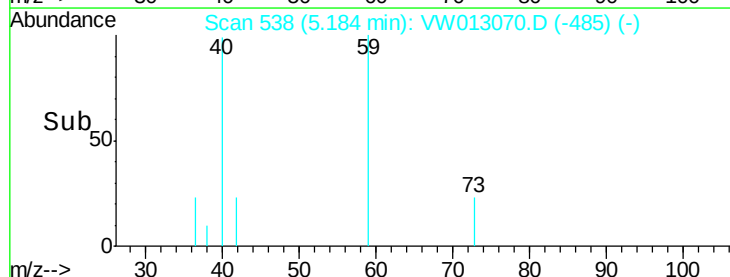
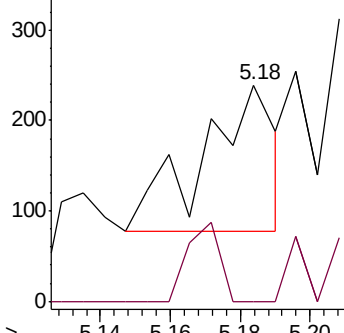
59 100

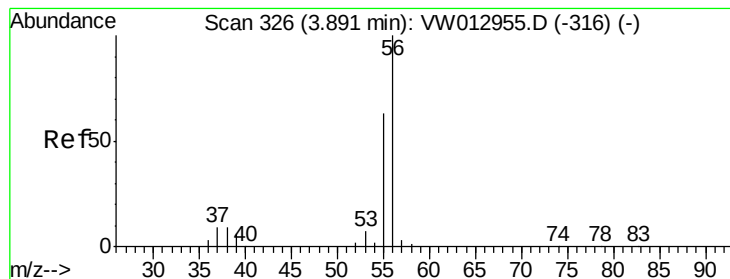
57 24.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.87 min Scan# 323

Delta R.T. -0.02 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

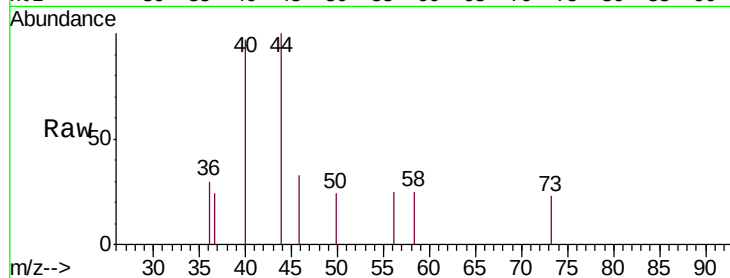
SB-4C-(9)

Tgt Ion: 56 Resp: 22

Ion Ratio Lower Upper

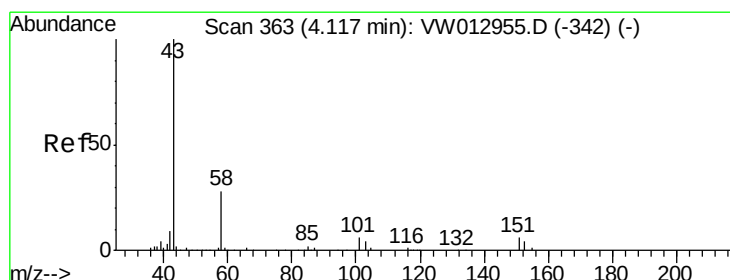
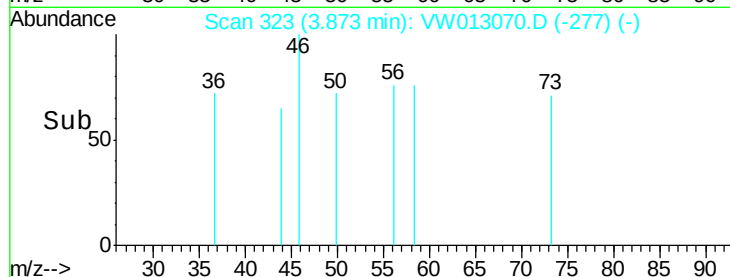
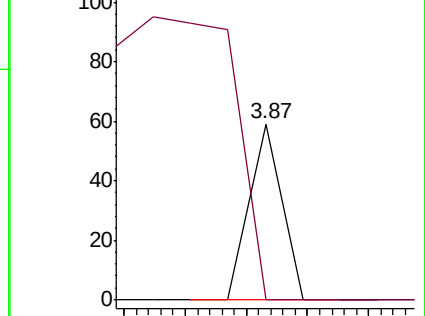
56 100

55 709.1 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: Below Cal

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW013070.D

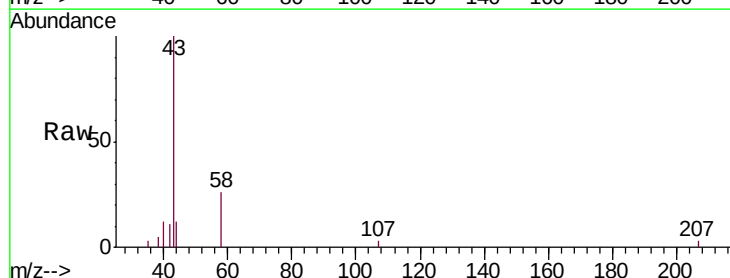
Acq: 17 Sep 2019 05:22

Tgt Ion: 43 Resp: 7454

Ion Ratio Lower Upper

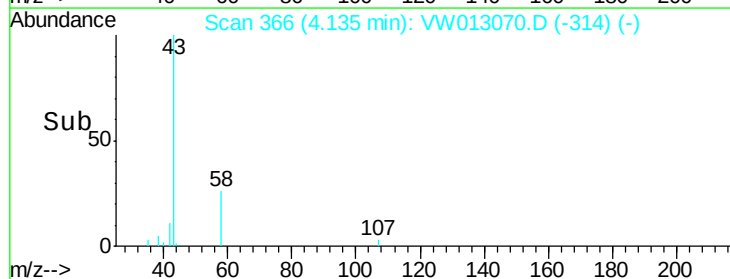
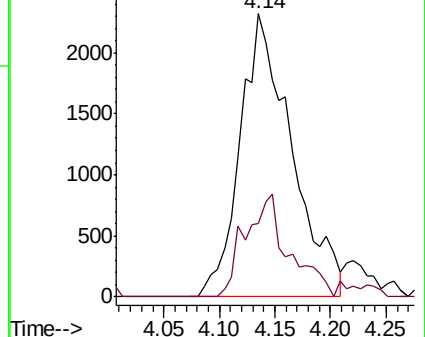
43 100

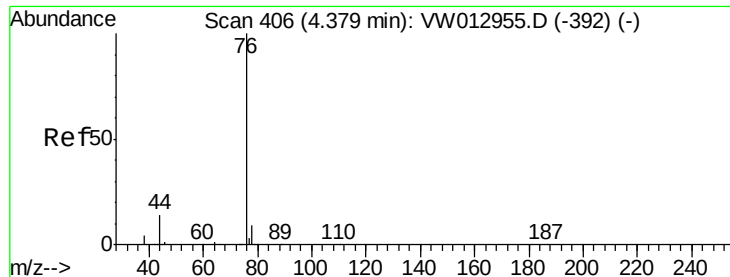
58 25.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 1.148 ug/l

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

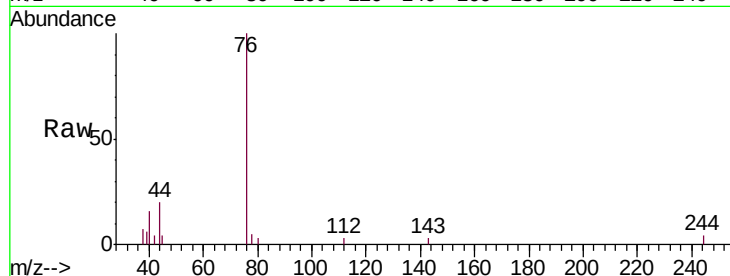
SB-4C-(9)

Tgt Ion: 76 Resp: 5421

Ion Ratio Lower Upper

76 100

78 4.6 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

4.39

2000

1500

1000

500

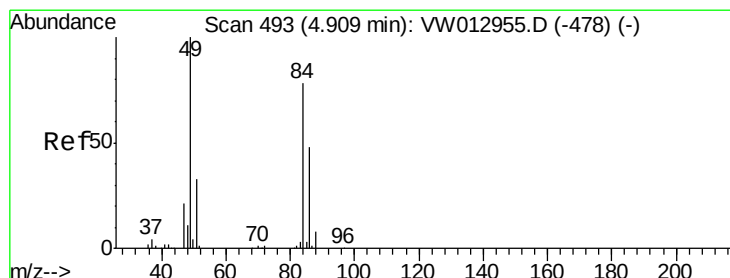
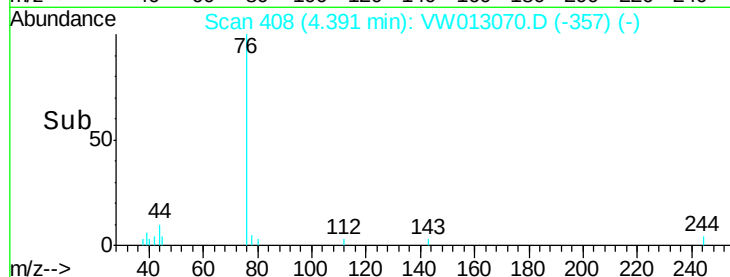
0

Time-->

4.30

4.40

4.50



#20

Methylene Chloride

Concen: 2.668 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.01 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Tgt Ion: 84 Resp: 19403

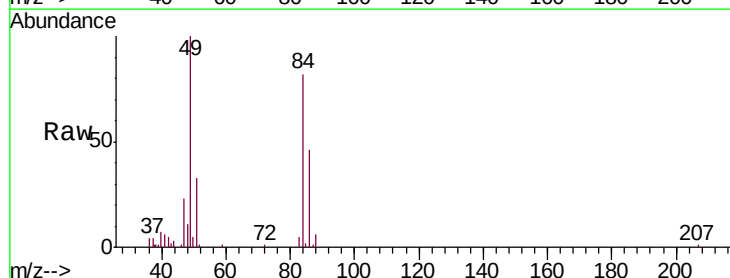
Ion Ratio Lower Upper

84 100

49 122.3 102.0 153.0

51 40.9 34.0 51.0

86 55.8 48.5 72.7



Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

10000

8000

6000

4000

2000

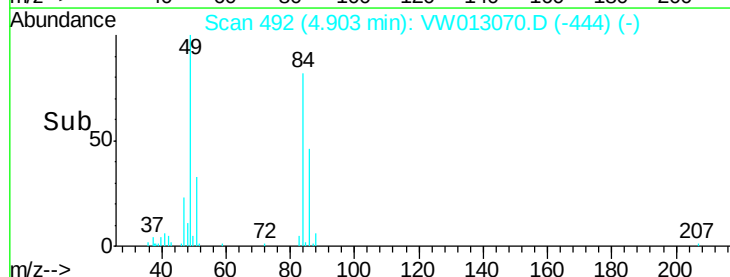
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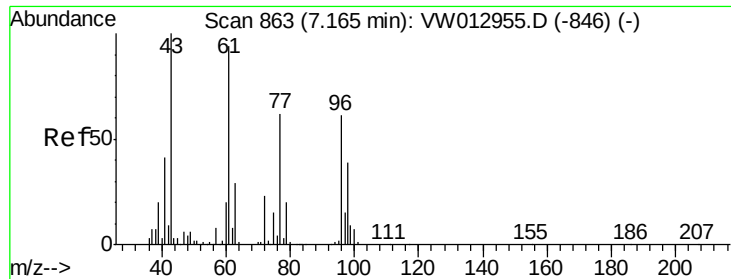
Time-->

4.80

4.90

5.00





#25

2-Butanone

Concen: 1.776 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

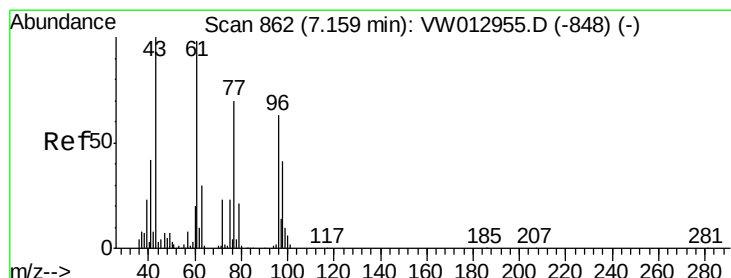
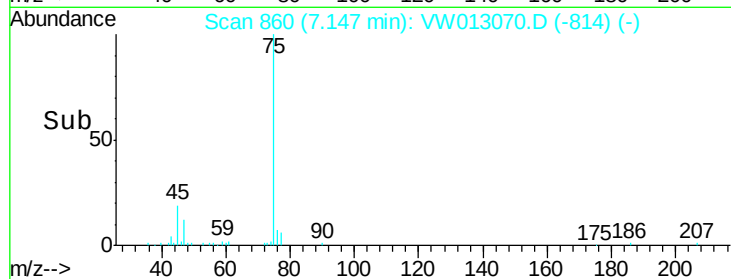
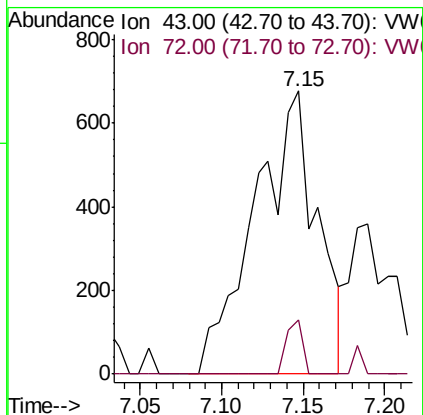
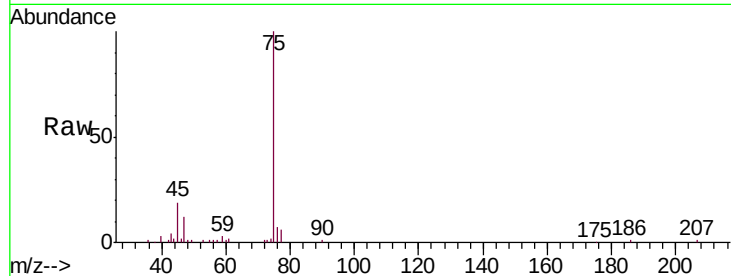
SB-4C-(9)

Tgt Ion: 43 Resp: 1790

Ion Ratio Lower Upper

43 100

72 19.1 18.2 27.4



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.13 min Scan# 858

Delta R.T. -0.02 min

Lab File: VW013070.D

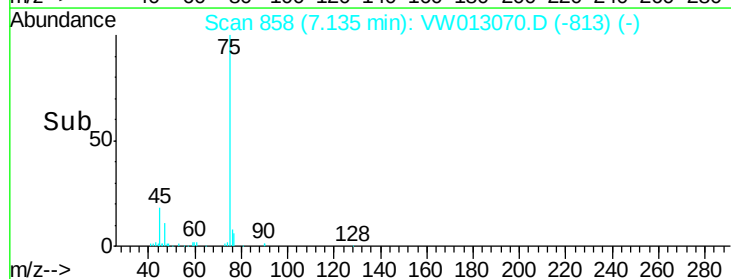
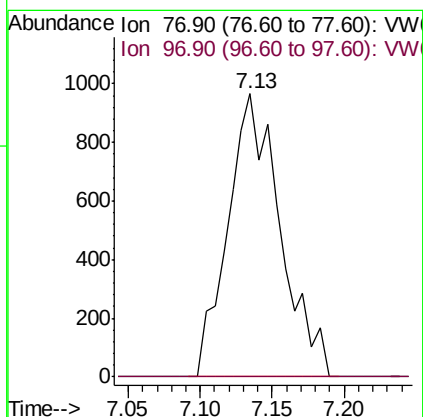
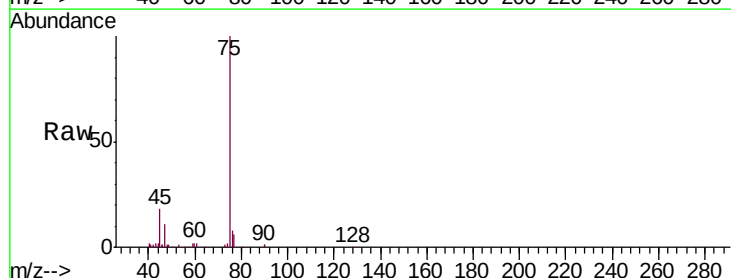
Acq: 17 Sep 2019 05:22

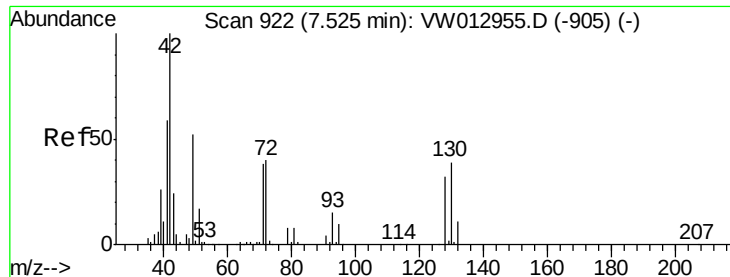
Tgt Ion: 77 Resp: 2443

Ion Ratio Lower Upper

77 100

97 0.0 10.7 32.1#

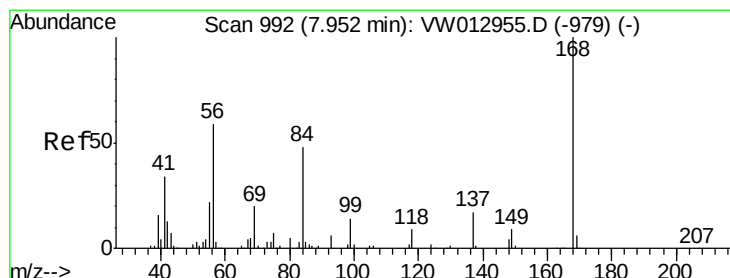
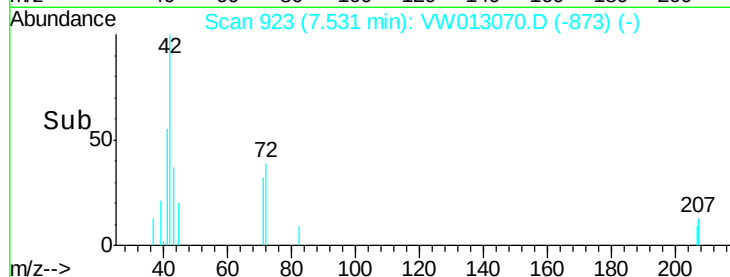
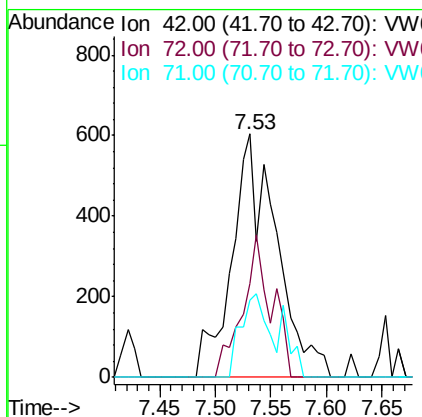
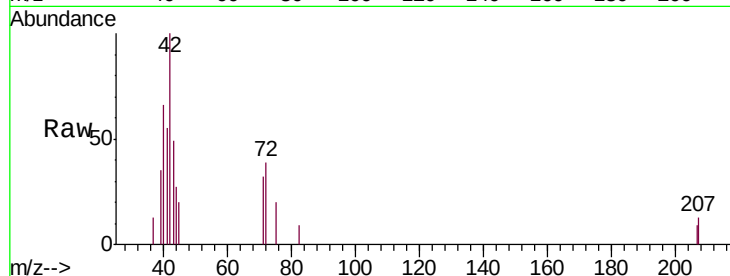




#29
Tetrahydrofuran
Concen: 2.952 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

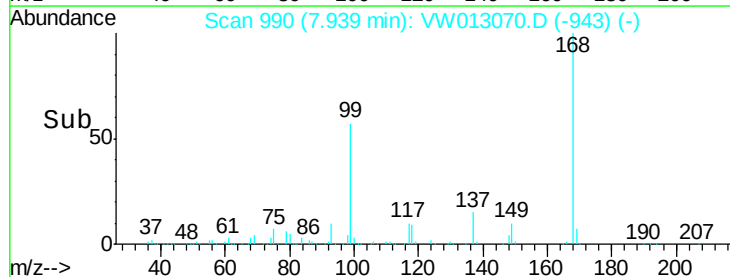
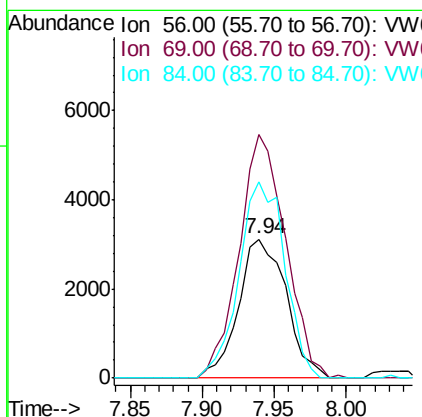
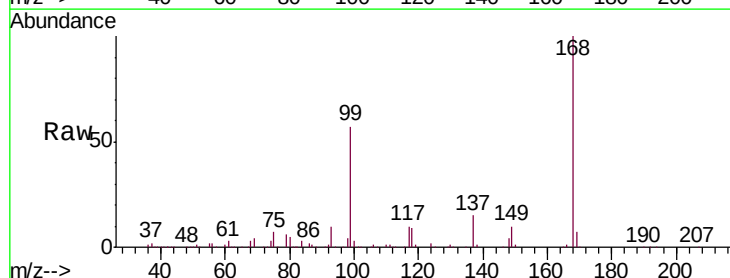
Instrument :
MSVOA_W
ClientSampleId :
SB-4C-(9)

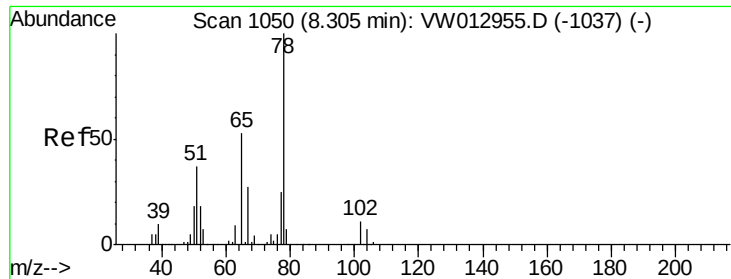
Tgt Ion: 42 Resp: 1695
Ion Ratio Lower Upper
42 100
72 37.7 31.4 47.0
71 20.6 29.8 44.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

Tgt Ion: 56 Resp: 7136
Ion Ratio Lower Upper
56 100
69 175.2 27.0 40.6#
84 141.6 66.2 99.2#

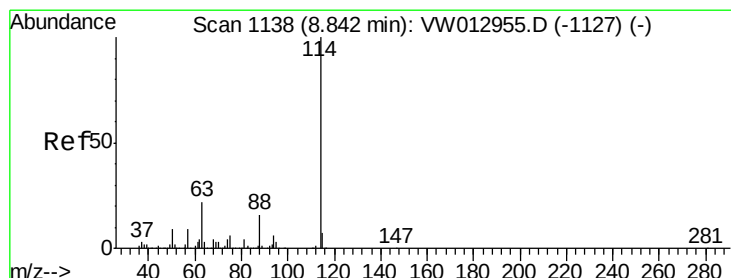
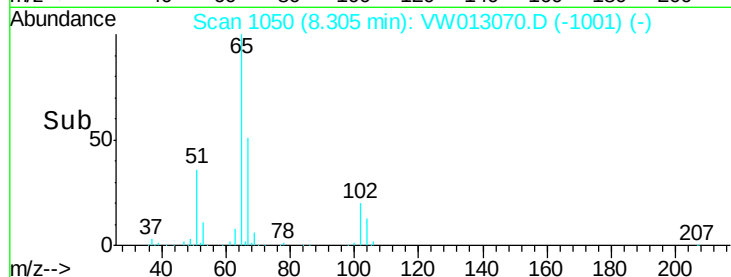
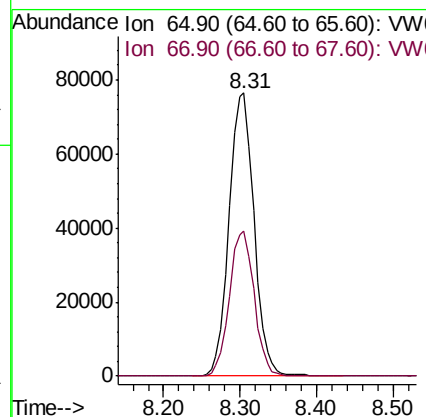
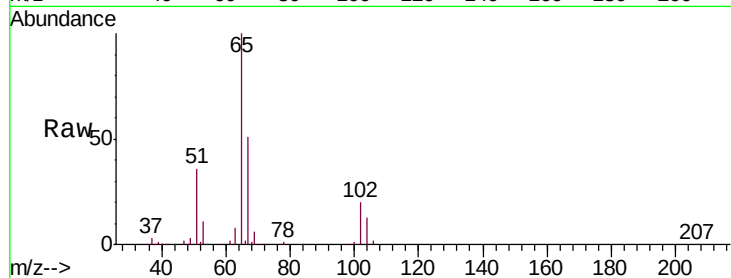




#33
 1,2-Dichloroethane-d4
 Concen: 54.500 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013070.D
 Acq: 17 Sep 2019 05:22

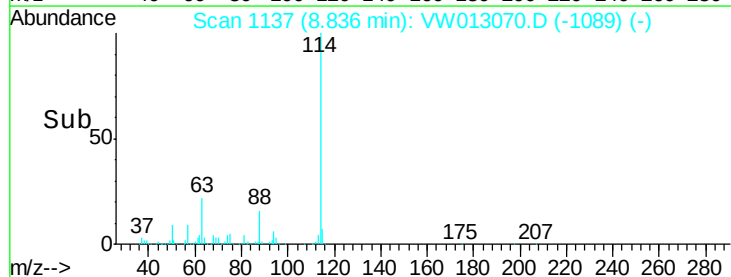
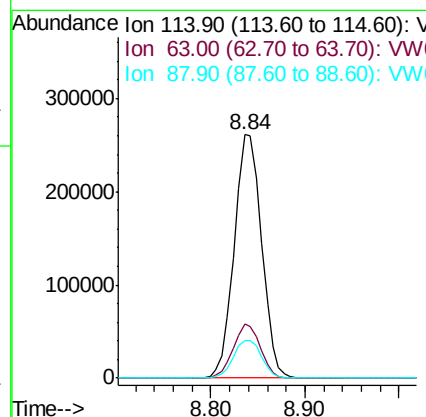
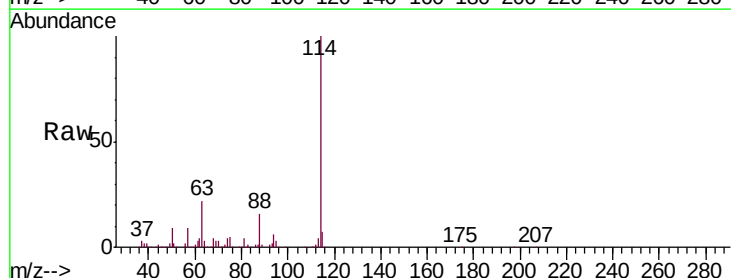
Instrument :
 MSVOA_W
 ClientSampleId :
 SB-4C-(9)

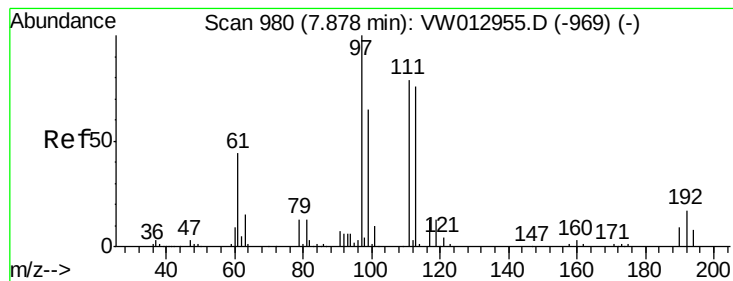
Tgt Ion: 65 Resp: 172727
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1137
 Delta R.T. -0.01 min
 Lab File: VW013070.D
 Acq: 17 Sep 2019 05:22

Tgt Ion: 114 Resp: 528826
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 43.4
 88 15.6 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.498 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

SB-4C-(9)

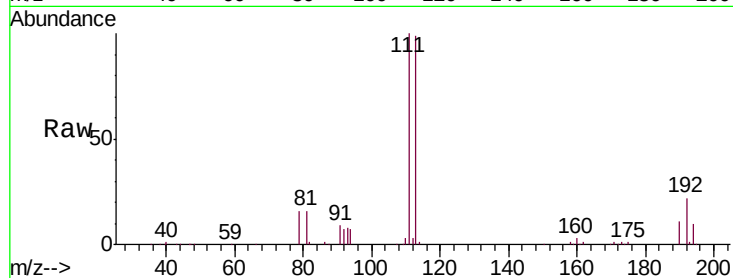
Tgt Ion:113 Resp: 147771

Ion Ratio Lower Upper

113 100

111 102.1 82.8 124.2

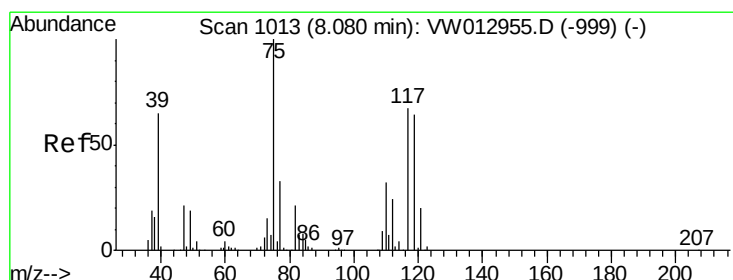
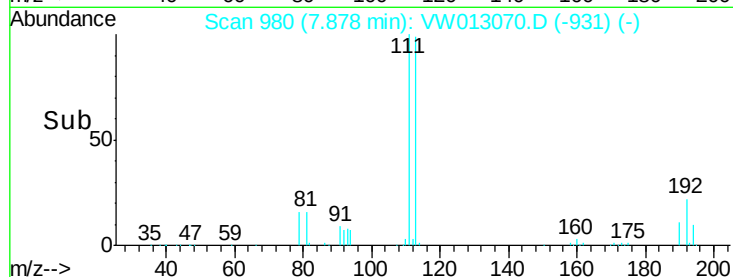
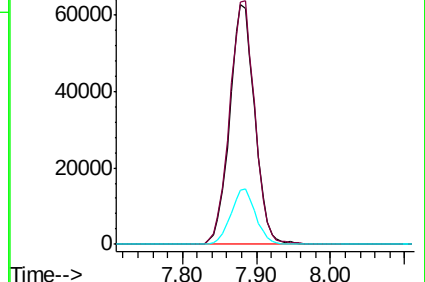
192 22.9 17.8 26.8



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: 5.909 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

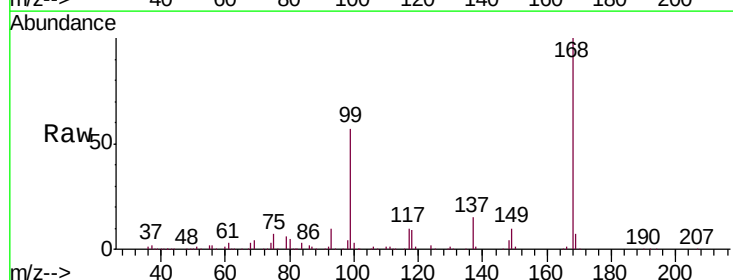
Tgt Ion: 75 Resp: 24971

Ion Ratio Lower Upper

75 100

110 8.8 16.4 49.1#

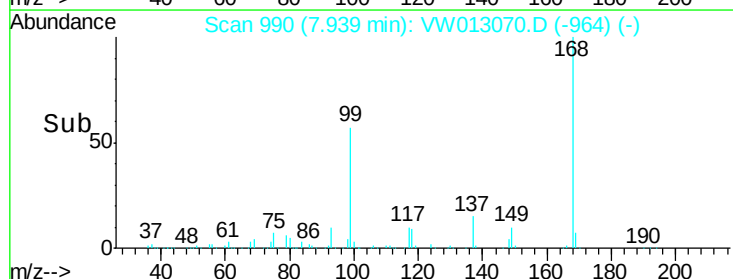
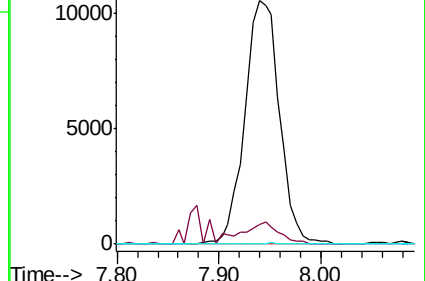
77 0.1 25.1 37.7#

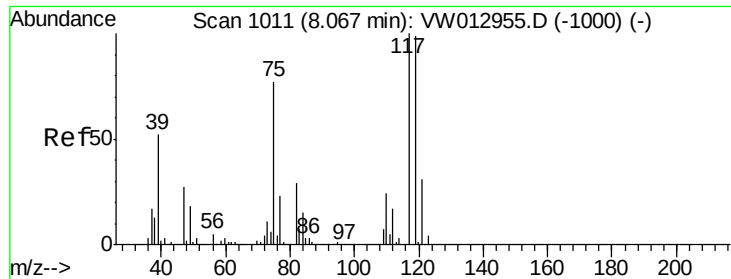


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

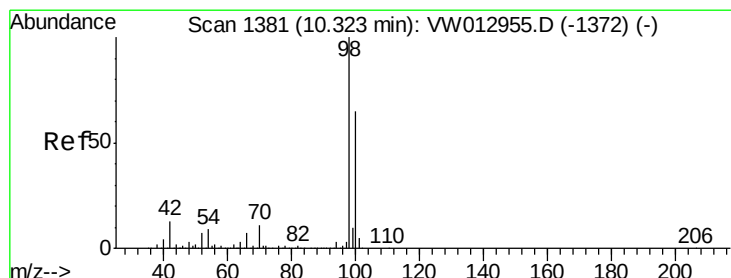
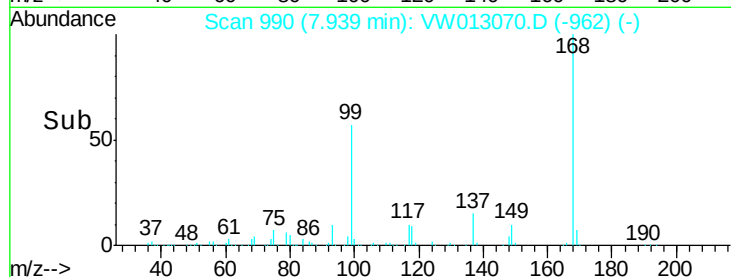
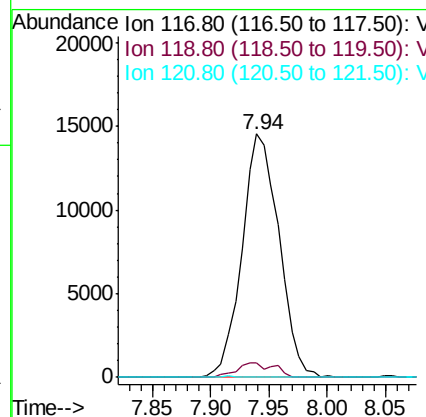
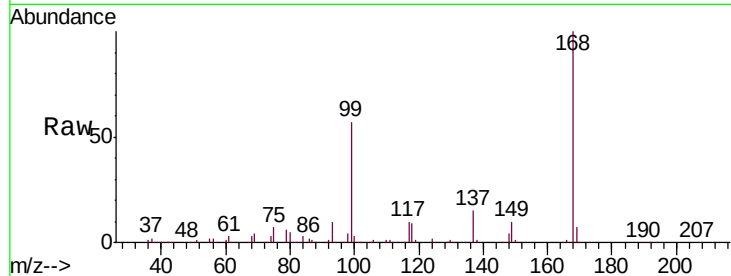




#38
Carbon Tetrachloride
Concen: 7.452 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

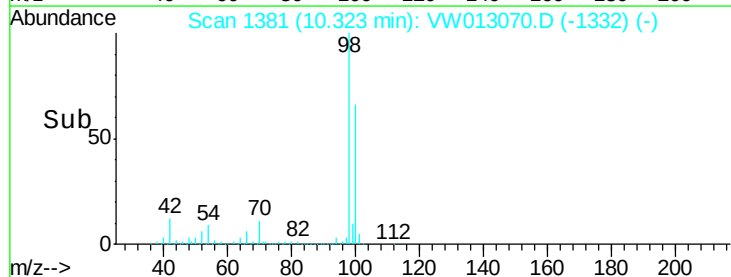
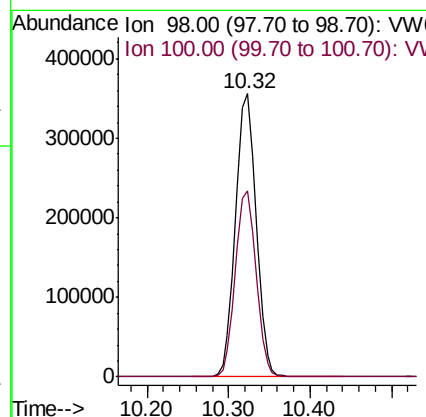
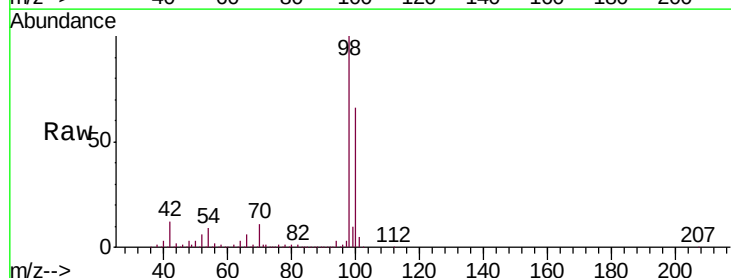
Instrument :
MSVOA_W
ClientSampleId :
SB-4C-(9)

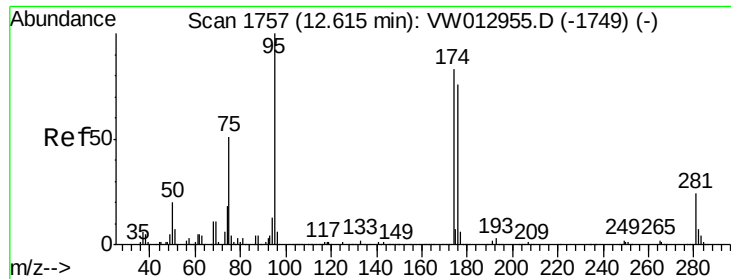
Tgt Ion:117 Resp: 32269
Ion Ratio Lower Upper
117 100
119 6.1 79.4 119.0#
121 0.0 24.6 36.8#



#50
Toluene-d8
Concen: 55.230 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

Tgt Ion: 98 Resp: 620153
Ion Ratio Lower Upper
98 100
100 65.9 52.1 78.1

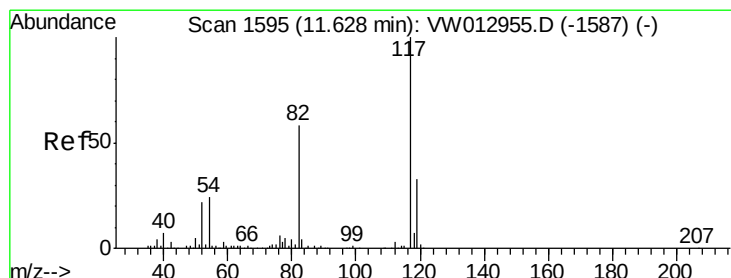
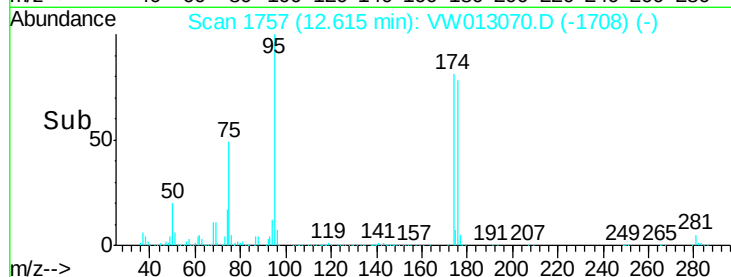
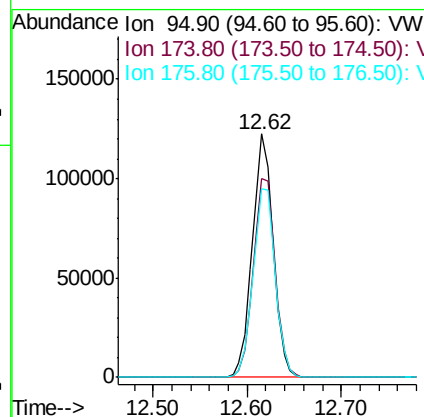
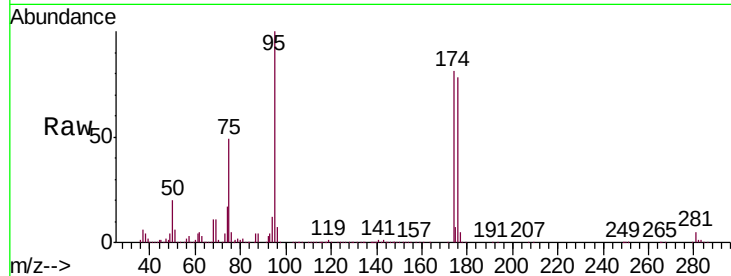




#62
4-Bromofluorobenzene
Concen: 47.443 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

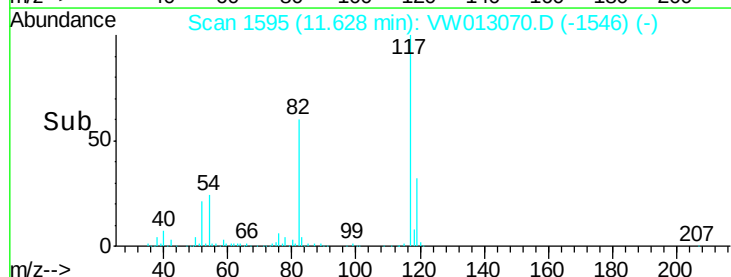
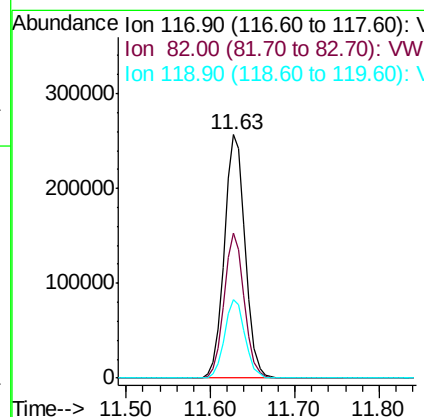
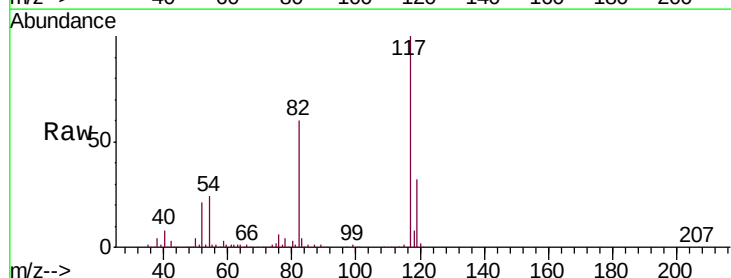
Instrument :
MSVOA_W
ClientSampleId :
SB-4C-(9)

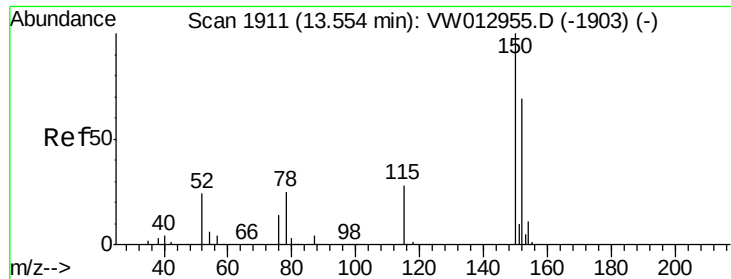
Tgt Ion: 95 Resp: 191555
Ion Ratio Lower Upper
95 100
174 86.2 0.0 170.4
176 82.4 0.0 164.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

Tgt Ion: 117 Resp: 436877
Ion Ratio Lower Upper
117 100
82 59.6 46.3 69.5
119 32.1 26.2 39.4



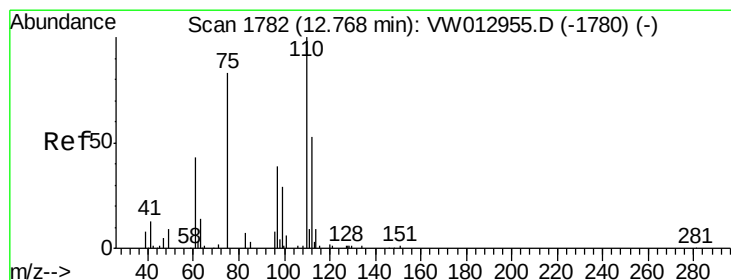
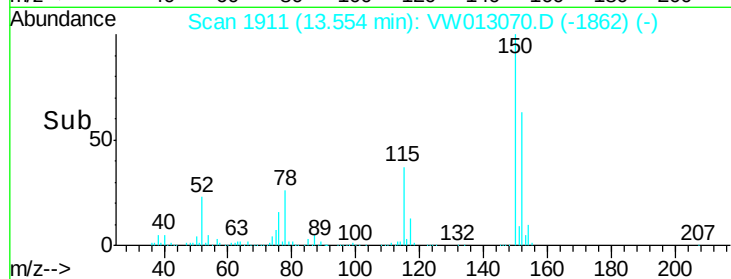
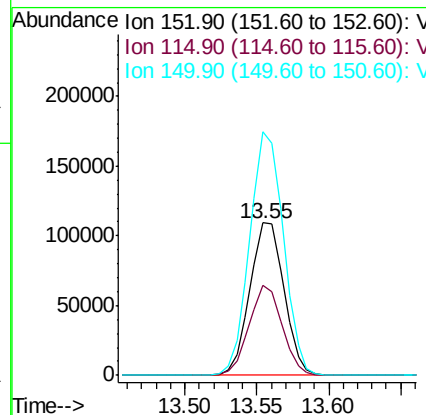
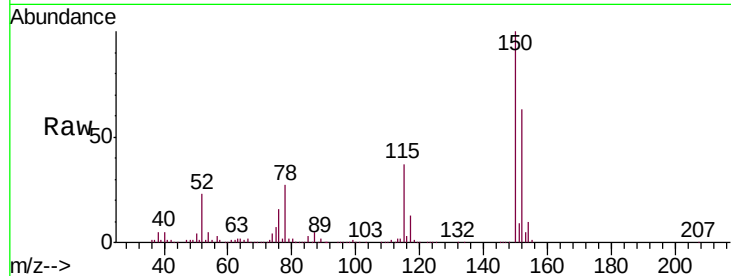


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. 0.00 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

Instrument :
MSVOA_W
ClientSampled :
SB-4C-(9)

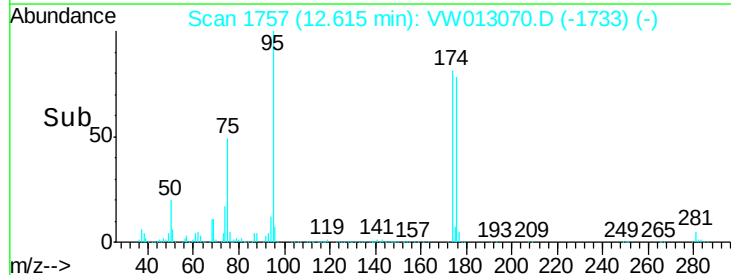
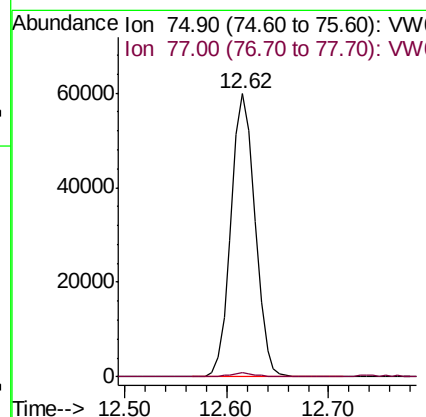
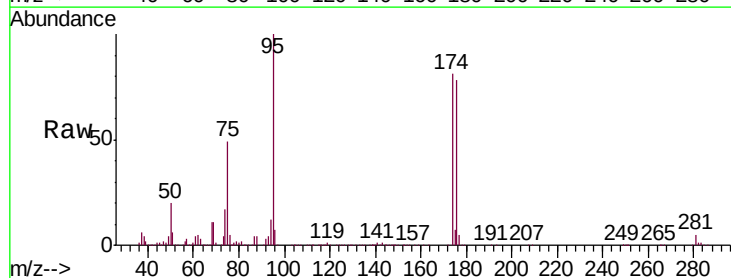
Tgt Ion:152 Resp: 179608
Ion Ratio Lower Upper
152 100
115 57.1 28.8 86.4
150 157.8 0.0 340.2

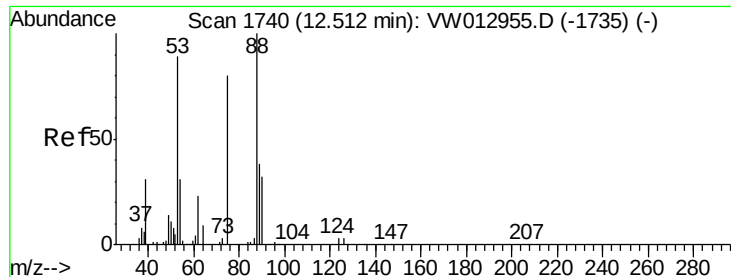


#76

1,2,3-Trichloropropane
Concen: 62.136 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013070.D
Acq: 17 Sep 2019 05:22

Tgt Ion: 75 Resp: 97754
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 140.955 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW013070.D

Acq: 17 Sep 2019 05:22

Instrument :

MSVOA_W

ClientSampleId :

SB-4C-(9)

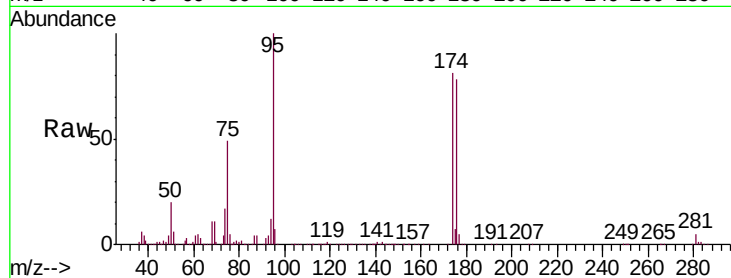
Tgt Ion: 75 Resp: 97754

Ion Ratio Lower Upper

75 100

53 0.2 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

