

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091019\
 Data File : VW012880.D
 Acq On : 10 Sep 2019 19:25
 Operator : SY/VA
 Sample : K4570-04RE
 Misc : 6.01G/5ML/MSVOA_W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SOUTH-AVENUE-4-ABCDRE

Quant Time: Sep 11 08:19:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
 Quant Title : SW846 8260
 QLast Update : Sun Sep 08 05:04:40 2019
 Response via : Initial Calibration

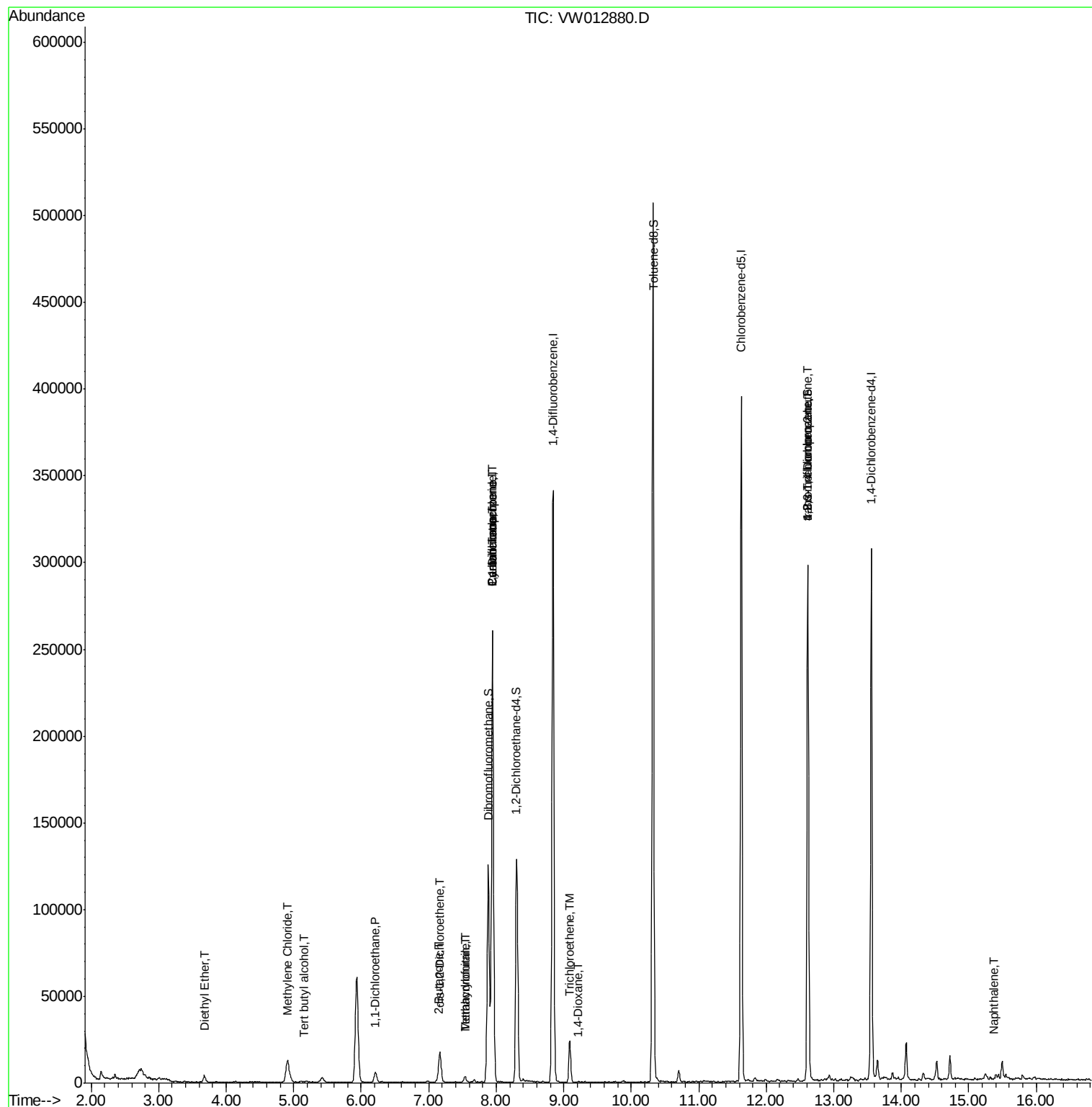
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	196088	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	282668	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	217499	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	77607	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	106170	48.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.92%	
35) Dibromofluoromethane	7.88	113	87875	52.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.58%	
50) Toluene-d8	10.32	98	330987	50.27	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.54%	
62) 4-Bromofluorobenzene	12.62	95	90748	37.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.94%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.68	74	2128	2.316	ug/l	100
11) Tert butyl alcohol	5.15	59	429	2.559	ug/l #	86
20) Methylene Chloride	4.91	84	10369	5.549	ug/l	93
24) 1,1-Dichloroethane	6.21	63	7609	2.127	ug/l #	89
25) 2-Butanone	7.15	43	105	19.790	ug/l #	53
27) cis-1,2-Dichloroethene	7.17	96	9084	4.742	ug/l	83
29) Tetrahydrofuran	7.54	42	2914	6.041	ug/l	97
31) Cyclohexane	7.94	56	4335	1.346	ug/l #	11
36) 1,1-Dichloropropene	7.94	75	14497	5.772	ug/l #	53
38) Carbon Tetrachloride	7.95	117	18637	7.528	ug/l #	16
41) Methacrylonitrile	7.54	41	1966	5.506	ug/l #	54
44) Trichloroethene	9.09	130	8215	4.573	ug/l	97
49) 1,4-Dioxane	9.22	88	22	1.217	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	47277	59.575	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	47277	126.006	ug/l #	7
95) Naphthalene	15.36	128	473	4.571	ug/l #	77

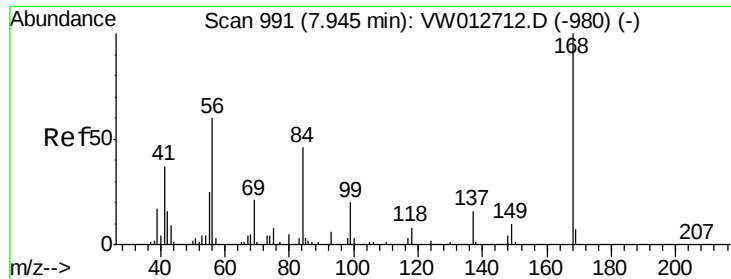
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW091019\
Data File : VW012880.D
Acq On : 10 Sep 2019 19:25
Operator : SY/VA
Sample : K4570-04RE
Misc : 6.01G/5ML/MSVOA_W/SOIL
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
SOUTH-AVENUE-4-ABCDRE

Quant Time: Sep 11 08:19:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W090719S.M
Quant Title : SW846 8260
QLast Update : Sun Sep 08 05:04:40 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

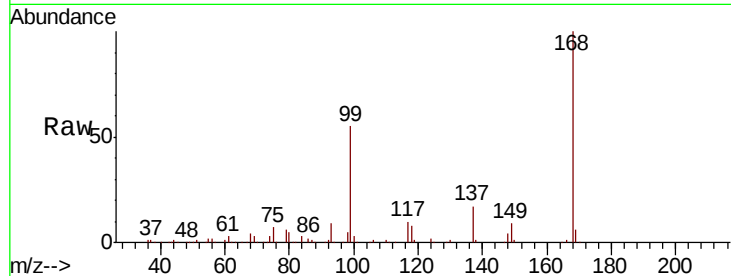
SOUTH-AVENUE-4-ABCDRE

Tgt Ion:168 Resp: 196088

Ion Ratio Lower Upper

168 100

99 55.3 47.8 71.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

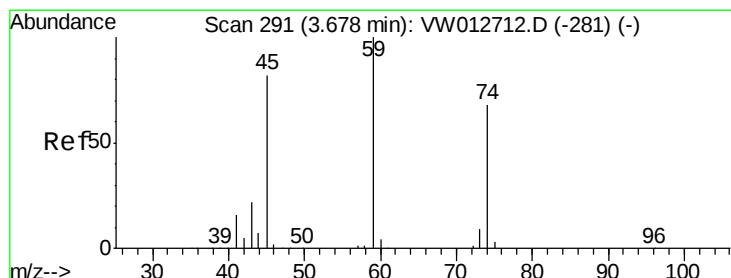
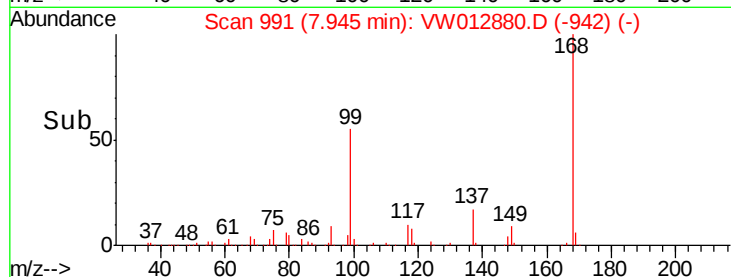
60000

40000

20000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 2.316 ug/l

RT: 3.68 min Scan# 291

Delta R.T. 0.00 min

Lab File: VW012880.D

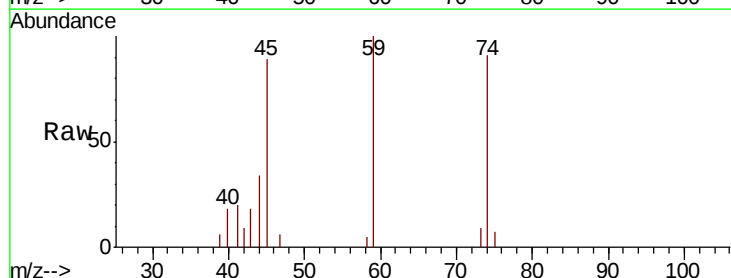
Acq: 10 Sep 2019 19:25

Tgt Ion: 74 Resp: 2128

Ion Ratio Lower Upper

74 100

45 118.0 58.8 176.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

1200

1000

800

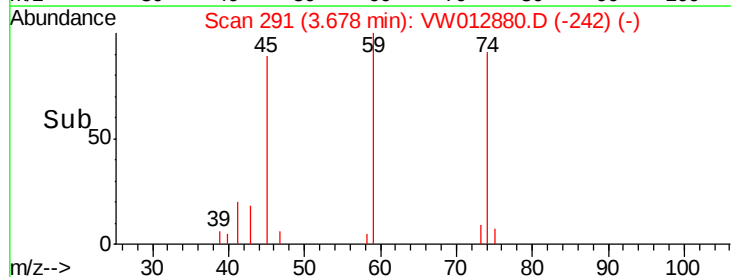
600

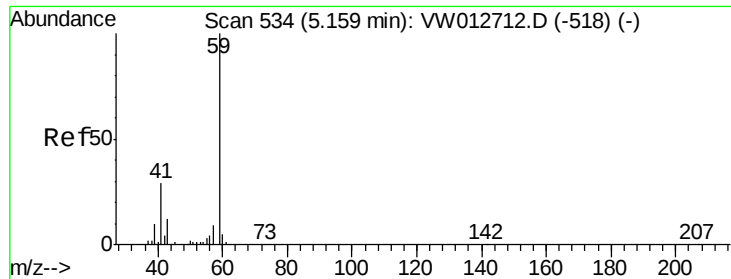
400

200

0

Time--> 3.60 3.65 3.70 3.75





#11

Tert butyl alcohol

Concen: 2.559 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

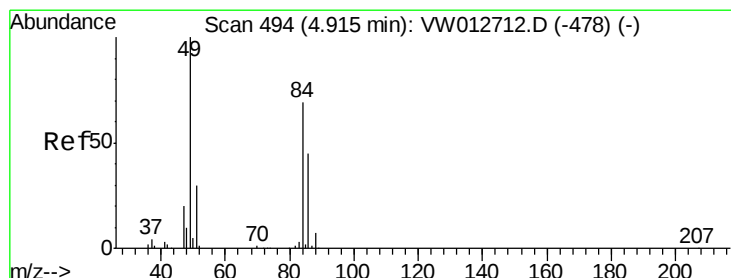
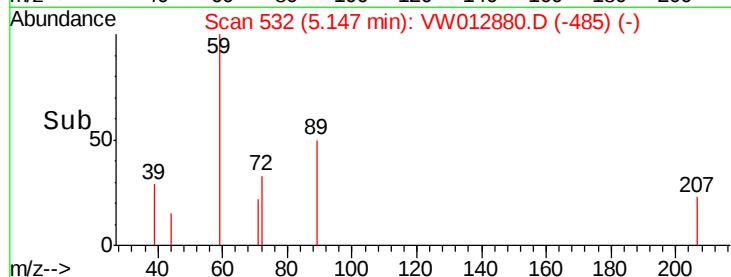
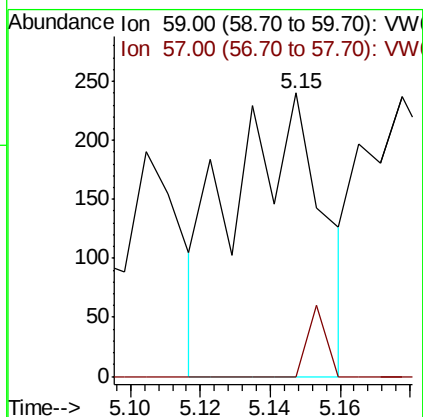
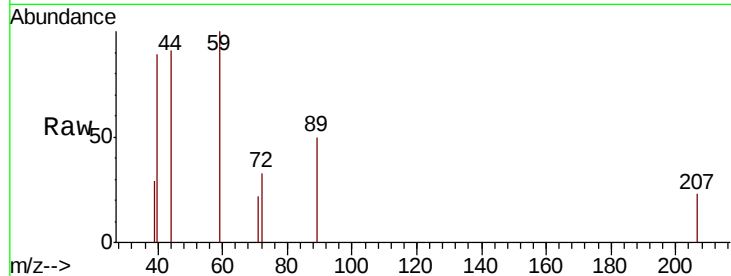
SOUTH-AVENUE-4-ABCDRE

Tgt Ion: 59 Resp: 429

Ion Ratio Lower Upper

59 100

57 5.1 8.2 12.4#



#20

Methylene Chloride

Concen: 5.549 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Tgt Ion: 84 Resp: 10369

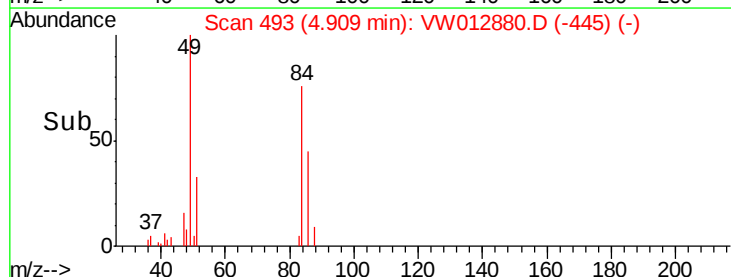
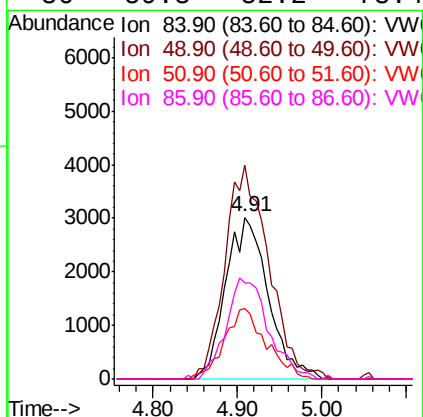
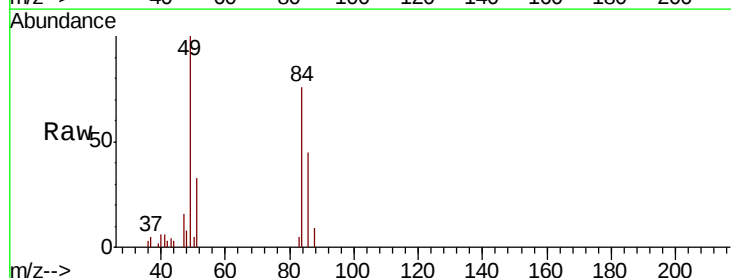
Ion Ratio Lower Upper

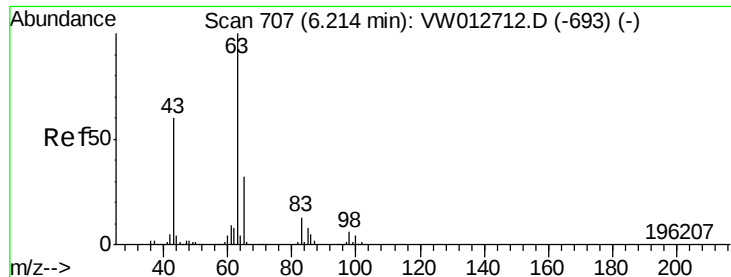
84 100

49 132.4 115.4 173.0

51 43.6 34.9 52.3

86 59.8 52.2 78.4





#24

1,1-Dichloroethane

Concen: 2.127 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

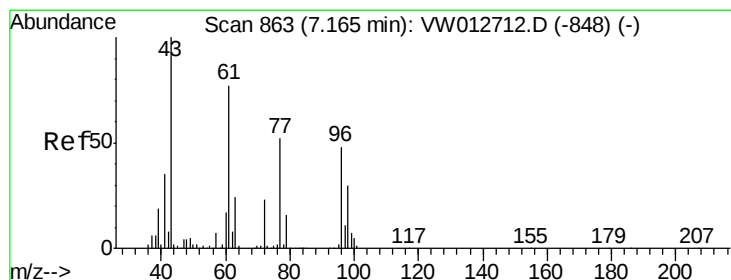
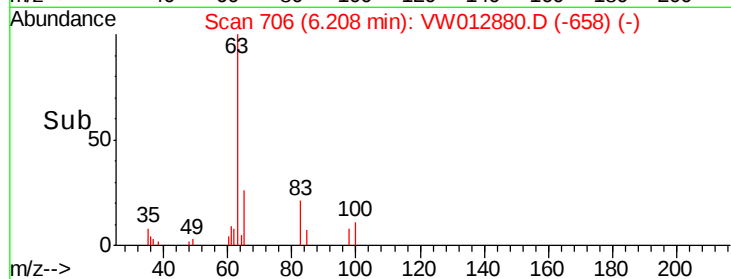
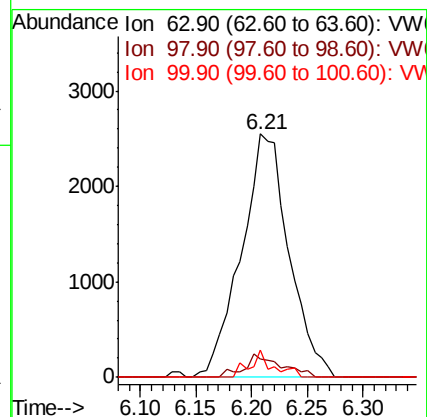
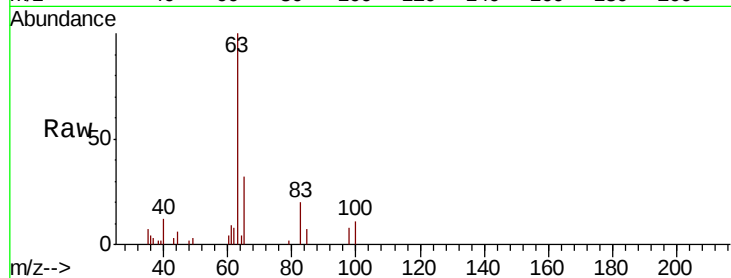
Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

Tgt Ion:	63	Resp:	7609
Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.1	9.3
100	11.2	1.8	5.5#



#25

2-Butanone

Concen: 19.790 ug/l

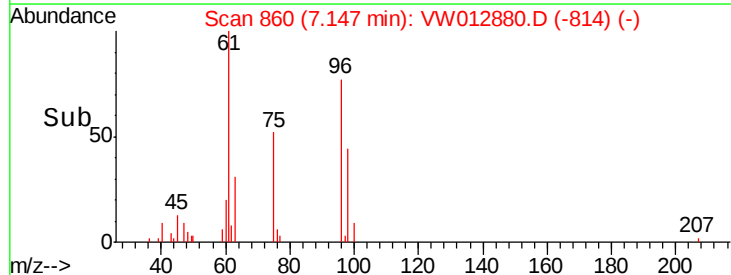
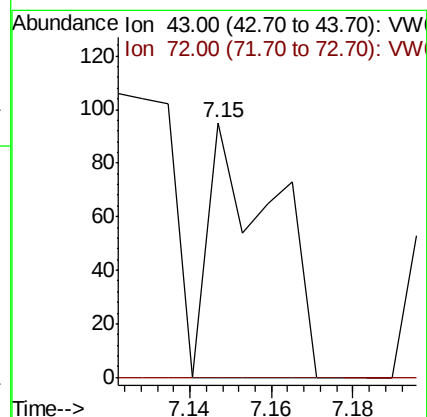
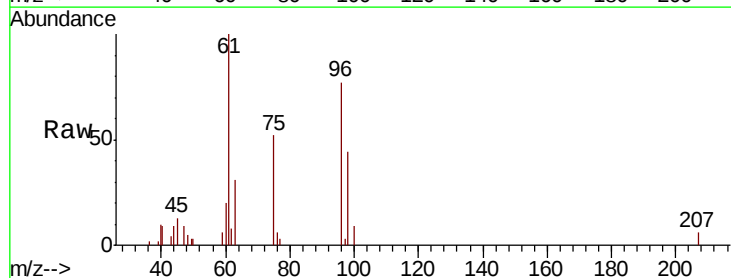
RT: 7.15 min Scan# 860

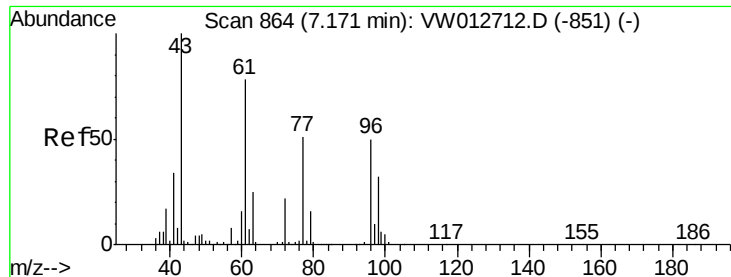
Delta R.T. -0.02 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Tgt Ion:	43	Resp:	105
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.0	27.0#



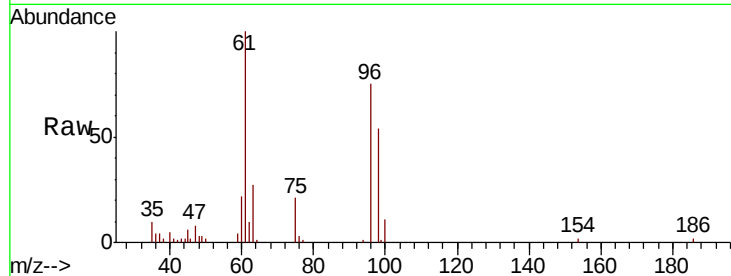


#27

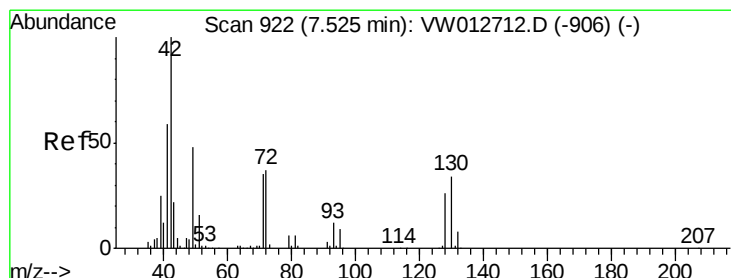
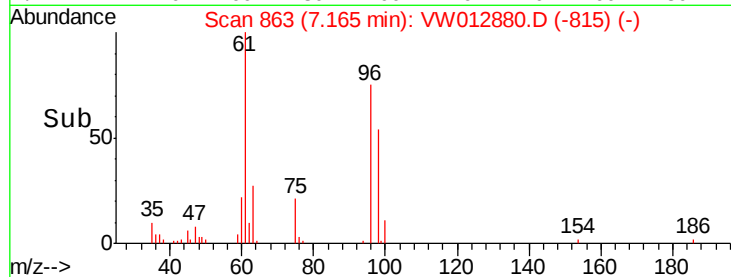
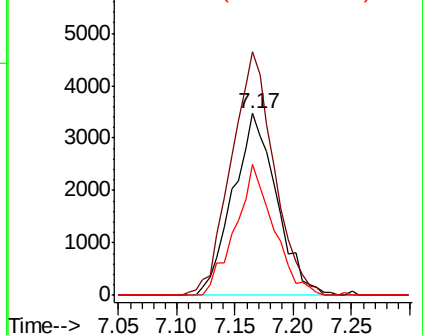
cis-1,2-Dichloroethene
 Concen: 4.742 ug/l
 RT: 7.17 min Scan# 863
 Delta R.T. -0.01 min
 Lab File: VW012880.D
 Acq: 10 Sep 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 SOUTH-AVENUE-4-ABCDRE

Tgt Ion: 96 Resp: 9084
 Ion Ratio Lower Upper
 96 100
 61 131.0 0.0 325.8
 98 63.1 0.0 127.0



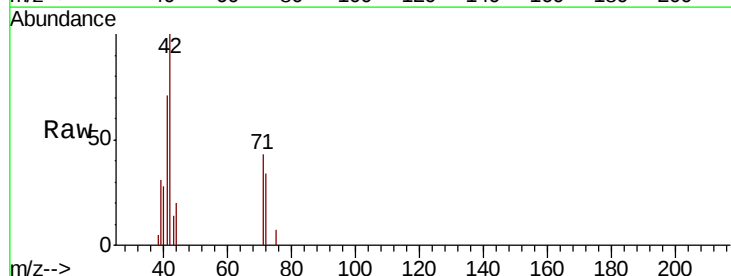
Abundance Ion 95.90 (95.60 to 96.60): VW
 Ion 60.90 (60.60 to 61.60): VW
 Ion 97.90 (97.60 to 98.60): VW



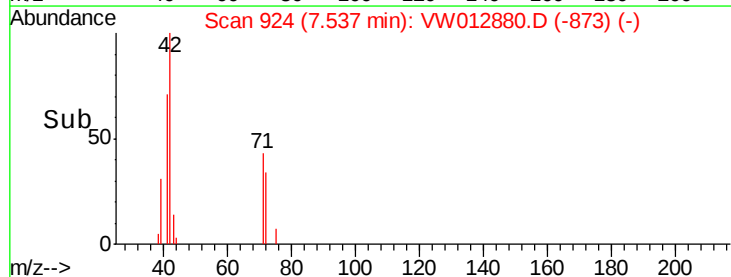
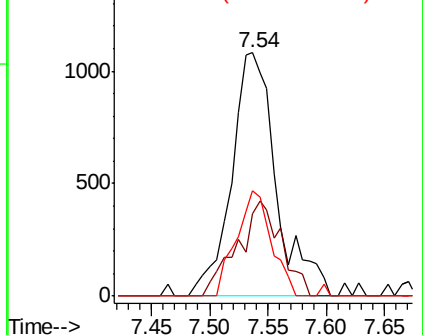
#29

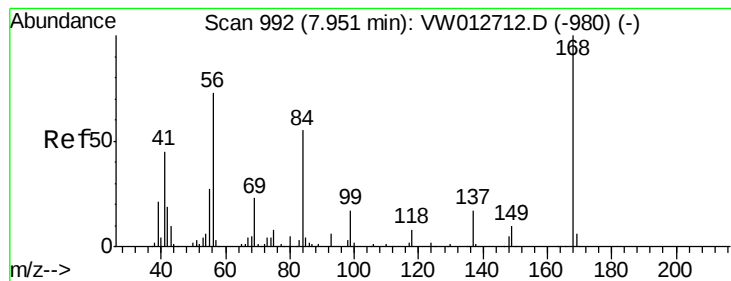
Tetrahydrofuran
 Concen: 6.041 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW012880.D
 Acq: 10 Sep 2019 19:25

Tgt Ion: 42 Resp: 2914
 Ion Ratio Lower Upper
 42 100
 72 38.1 28.4 42.6
 71 33.5 27.1 40.7



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: 1.346 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

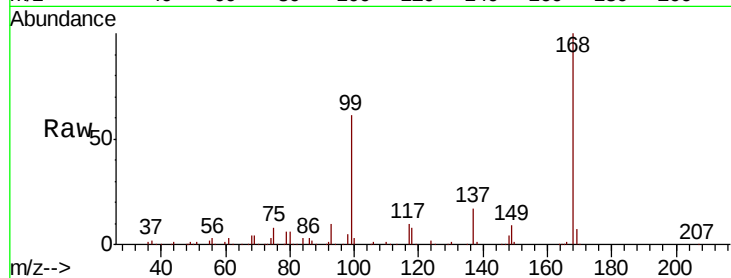
Tgt Ion: 56 Resp: 4335

Ion Ratio Lower Upper

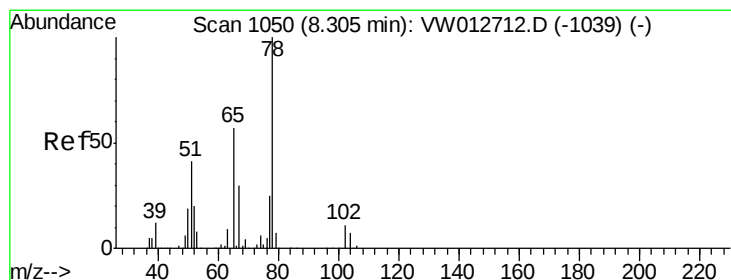
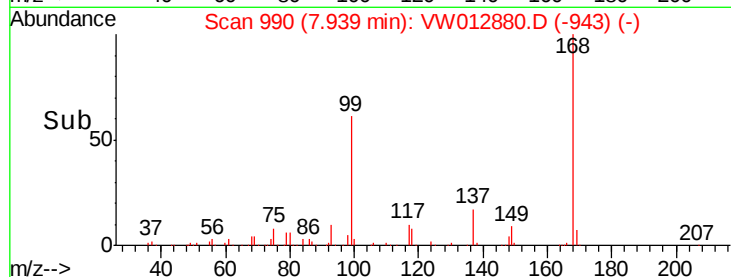
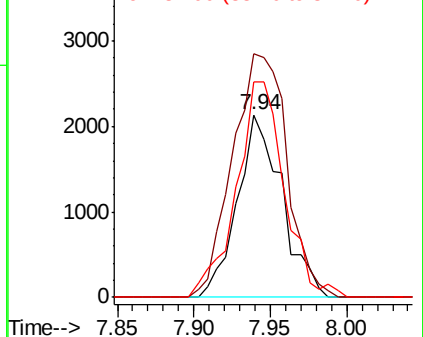
56 100

69 133.6 25.7 38.5#

84 118.0 60.4 90.6#



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: 48.458 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW012880.D

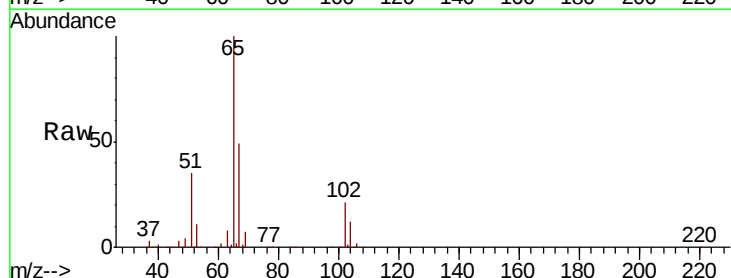
Acq: 10 Sep 2019 19:25

Tgt Ion: 65 Resp: 106170

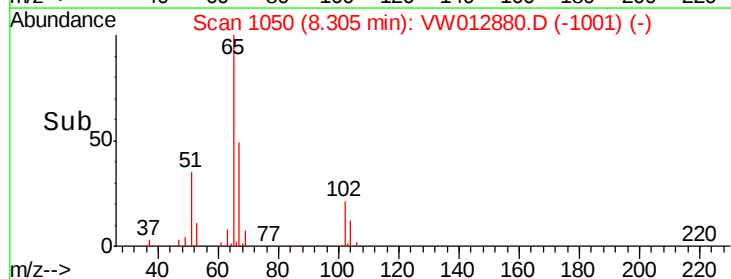
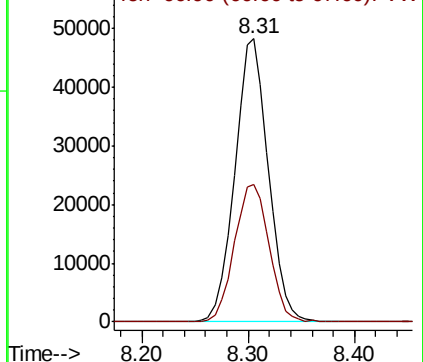
Ion Ratio Lower Upper

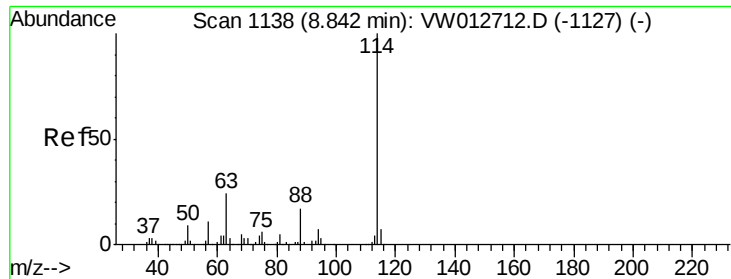
65 100

67 50.4 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

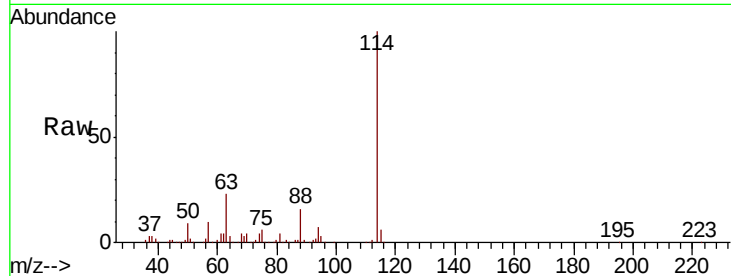




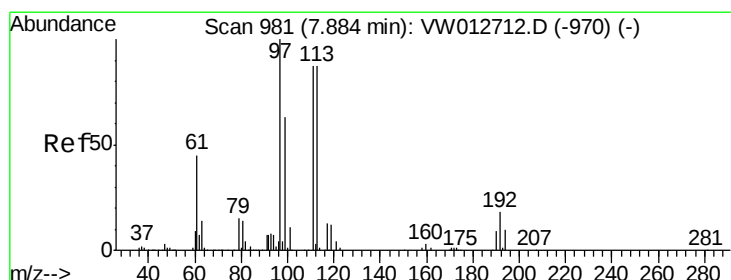
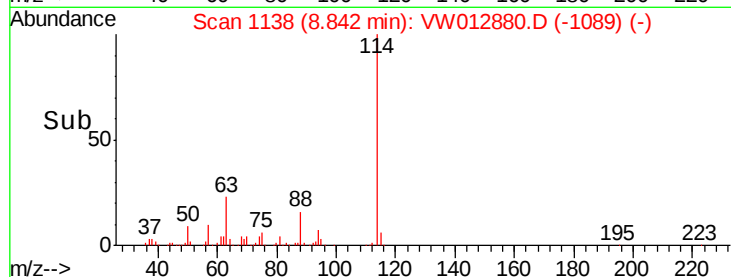
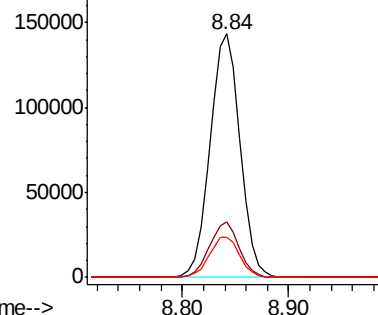
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW012880.D
 Acq: 10 Sep 2019 19:25

Instrument :
 MSVOA_W
 ClientSampleId :
 SOUTH-AVENUE-4-ABCDRE

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	47.2
88	16.3	0.0	34.0

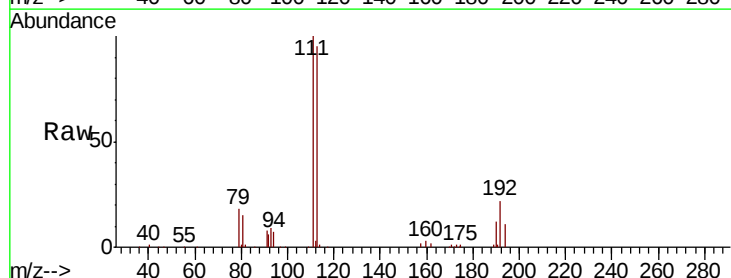


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

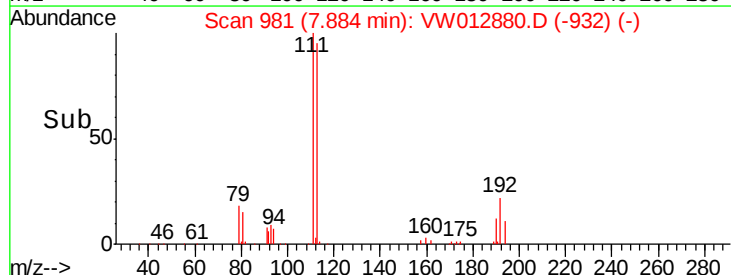
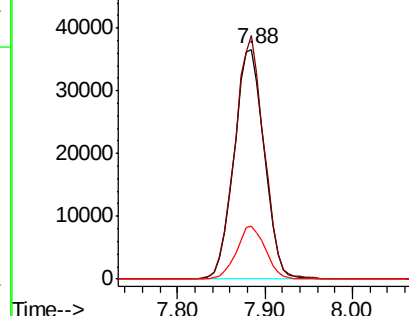


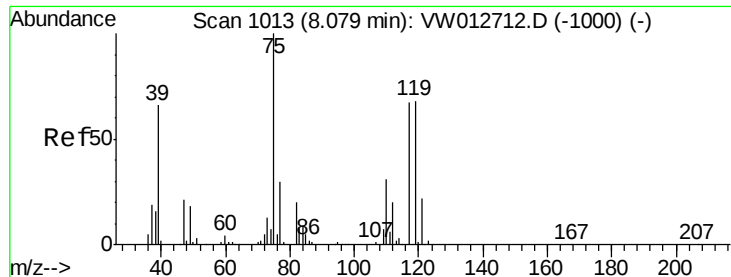
#35
 Dibromofluoromethane
 Concen: 52.290 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW012880.D
 Acq: 10 Sep 2019 19:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	80.2	120.4
192	22.3	17.3	25.9



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: 5.772 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

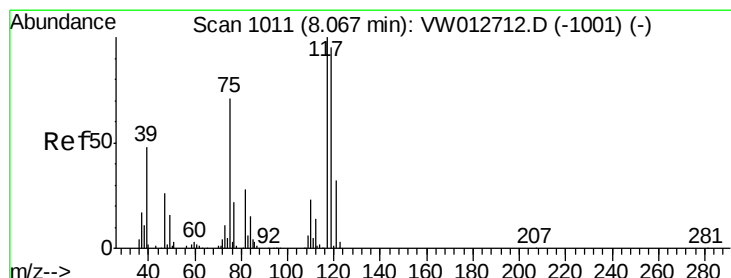
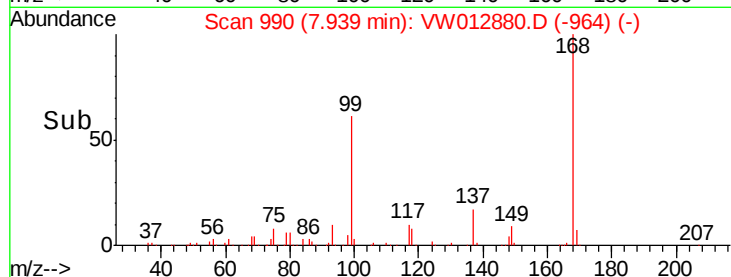
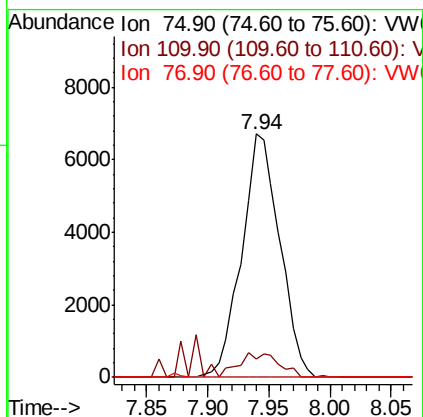
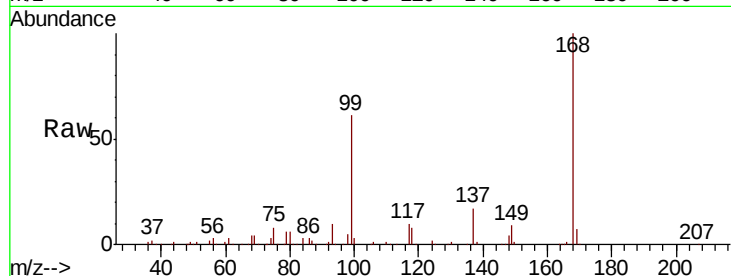
Tgt Ion: 75 Resp: 14497

Ion Ratio Lower Upper

75 100

110 10.5 15.9 47.7#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 7.528 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

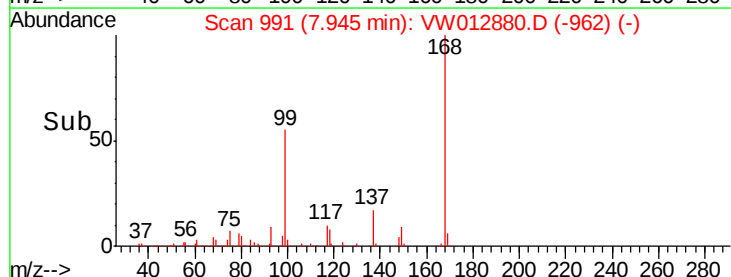
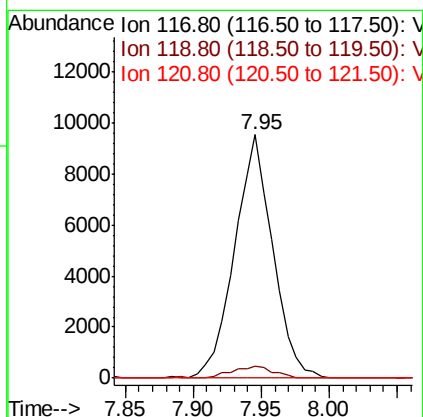
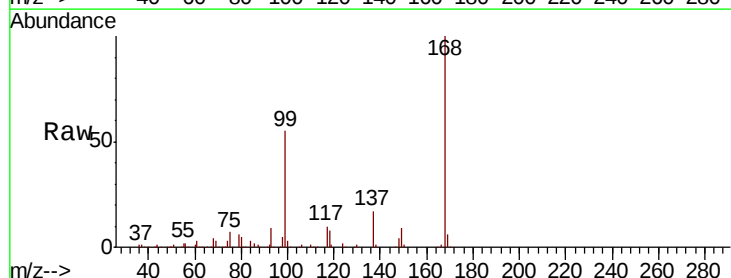
Tgt Ion: 117 Resp: 18637

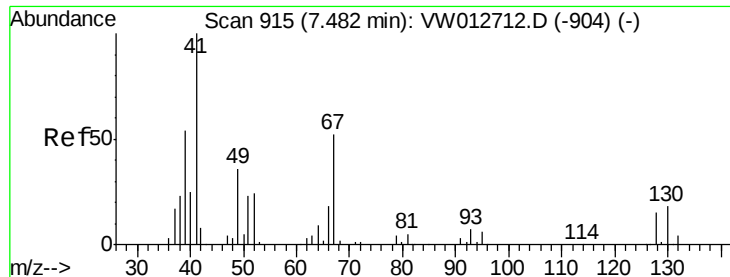
Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

121 0.0 25.4 38.2#

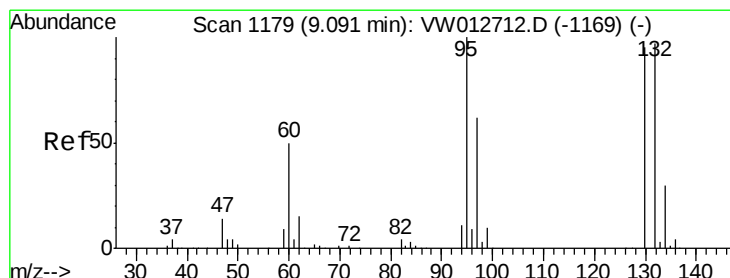
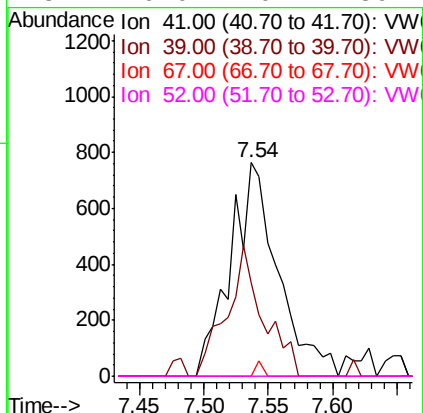
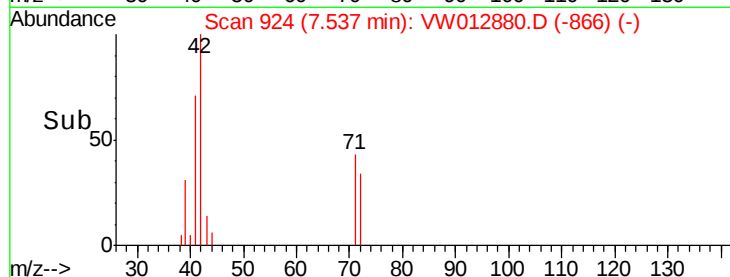
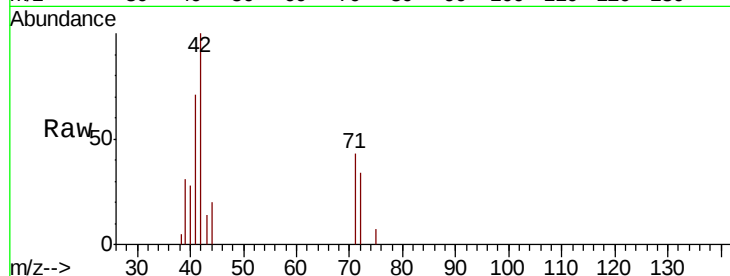




#41
Methacrylonitrile
Concen: 5.506 ug/l
RT: 7.54 min Scan# 924
Delta R.T. 0.05 min
Lab File: VW012880.D
Acq: 10 Sep 2019 19:25

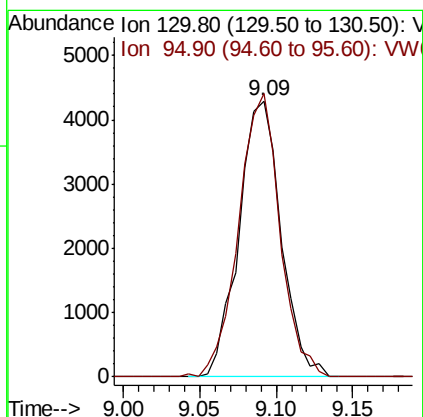
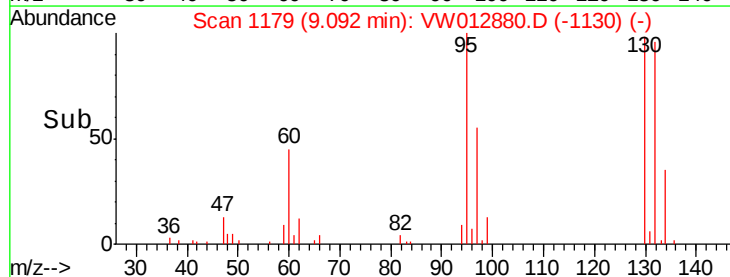
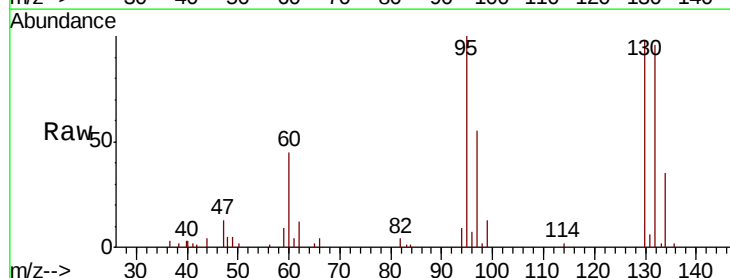
Instrument :
MSVOA_W
ClientSampleId :
SOUTH-AVENUE-4-ABCDRE

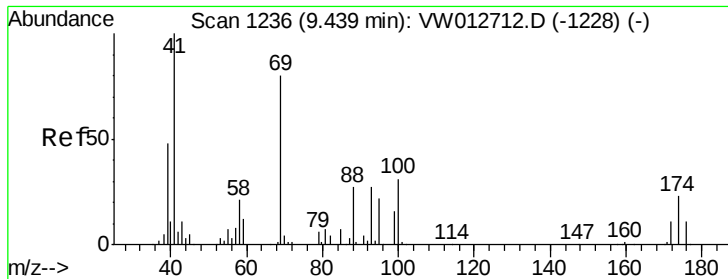
Tgt Ion: 41 Resp: 1966
Ion Ratio Lower Upper
41 100
39 47.3 47.5 71.3#
67 1.0 45.1 67.7#
52 0.0 20.2 30.2#



#44
Trichloroethene
Concen: 4.573 ug/l
RT: 9.09 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VW012880.D
Acq: 10 Sep 2019 19:25

Tgt Ion: 130 Resp: 8215
Ion Ratio Lower Upper
130 100
95 102.5 0.0 210.6

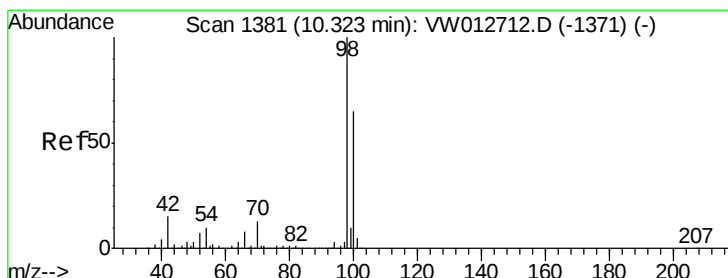
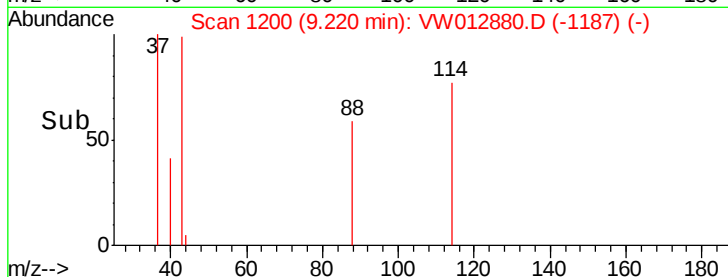
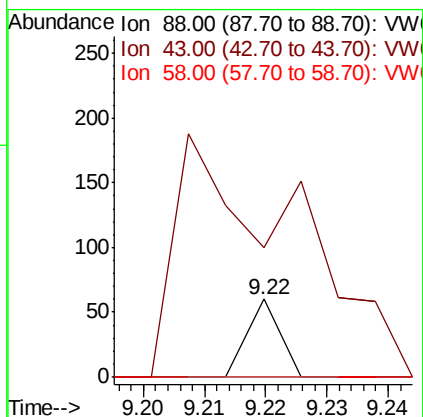
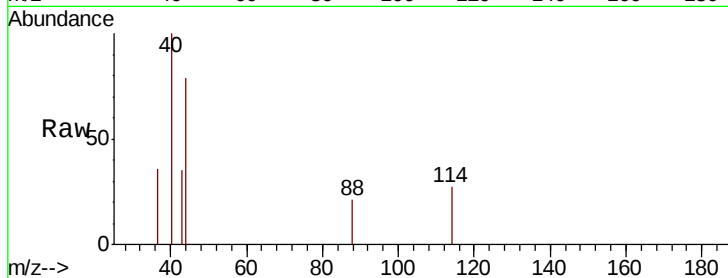




#49
1,4-Dioxane
Concen: 1.217 ug/l
RT: 9.22 min Scan# 1200
Delta R.T. -0.22 min
Lab File: VW012880.D
Acq: 10 Sep 2019 19:25

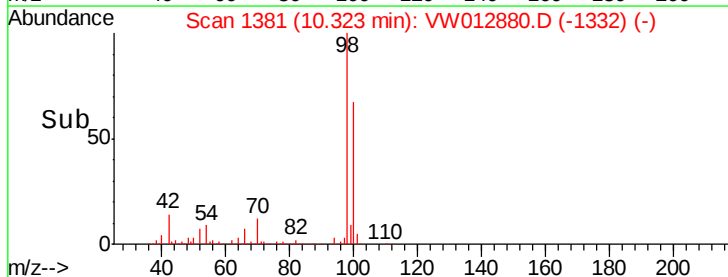
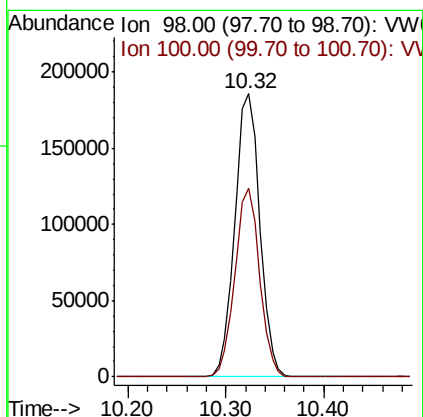
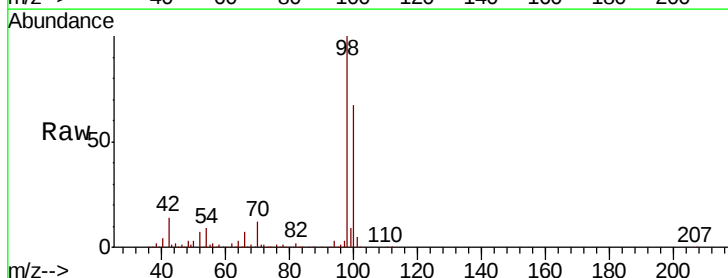
Instrument :
MSVOA_W
ClientSampleId :
SOUTH-AVENUE-4-ABCDRE

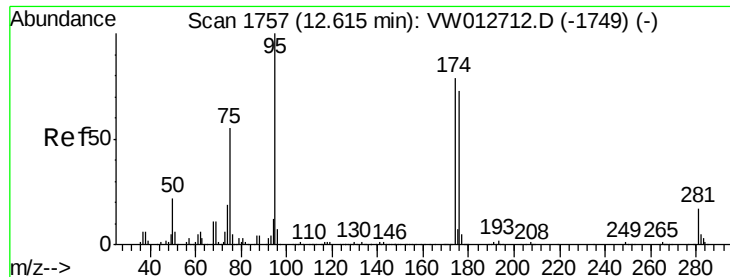
Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 1145.5 34.8 52.2#
58 0.0 64.1 96.1#



#50
Toluene-d8
Concen: 50.272 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW012880.D
Acq: 10 Sep 2019 19:25

Tgt Ion: 98 Resp: 330987
Ion Ratio Lower Upper
98 100
100 65.6 52.2 78.4





#62

4-Bromofluorobenzene

Concen: 37.967 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

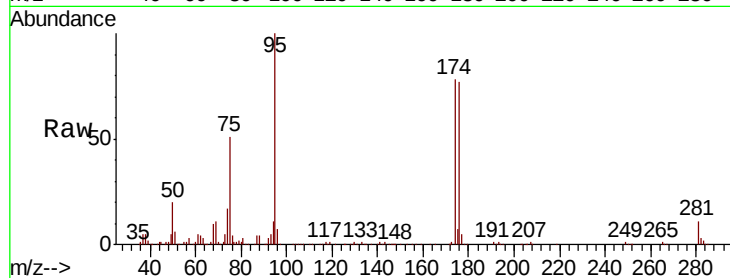
Tgt Ion: 95 Resp: 90748

Ion Ratio Lower Upper

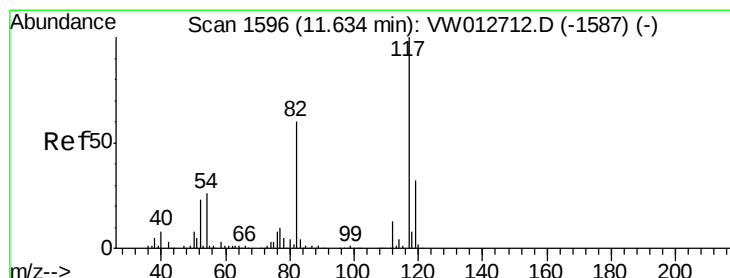
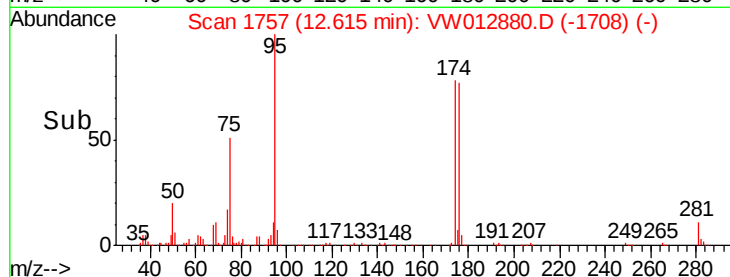
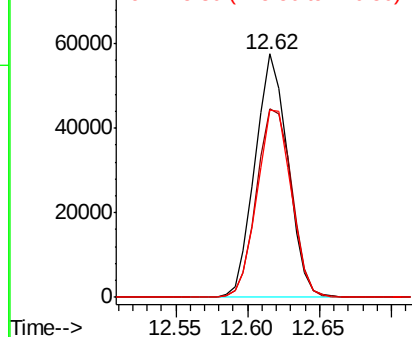
95 100

174 83.1 0.0 161.0

176 80.5 0.0 156.4



Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

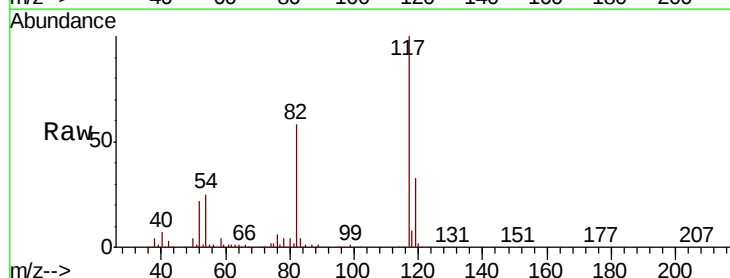
Tgt Ion: 117 Resp: 217499

Ion Ratio Lower Upper

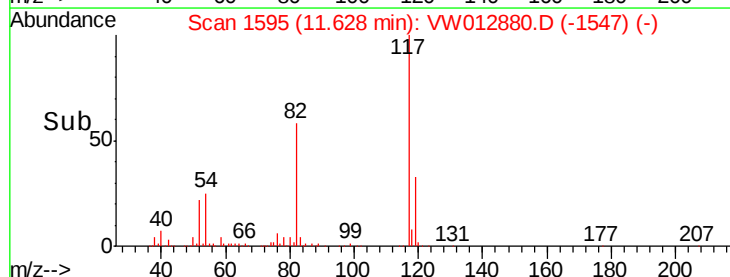
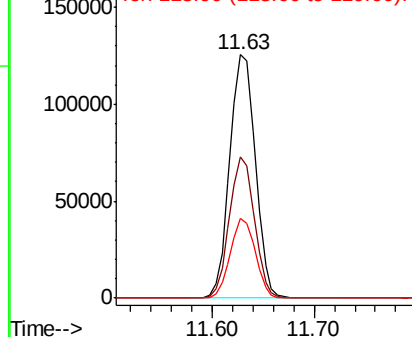
117 100

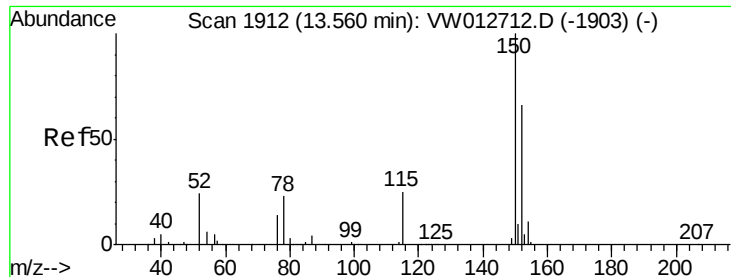
82 58.1 48.2 72.4

119 33.0 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.55 min Scan# 1911

Delta R.T. -0.01 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

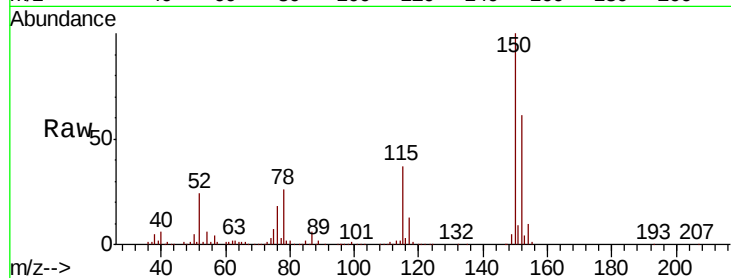
Tgt Ion:152 Resp: 77607

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.1

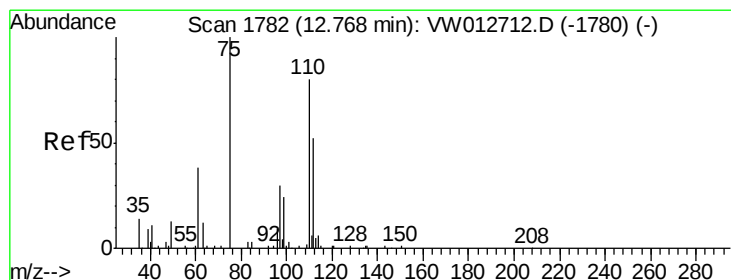
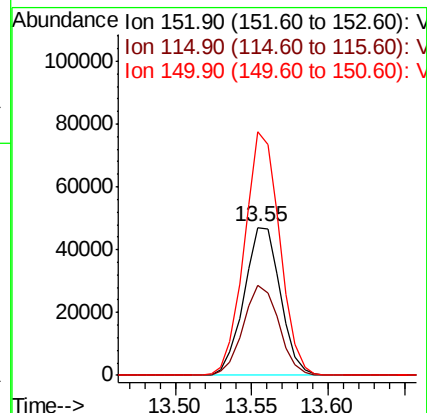
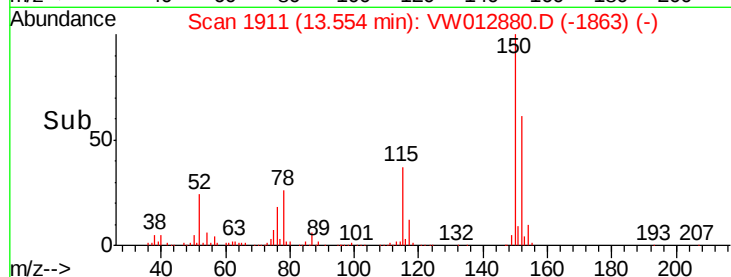
150 160.4 0.0 349.0



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: 59.575 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW012880.D

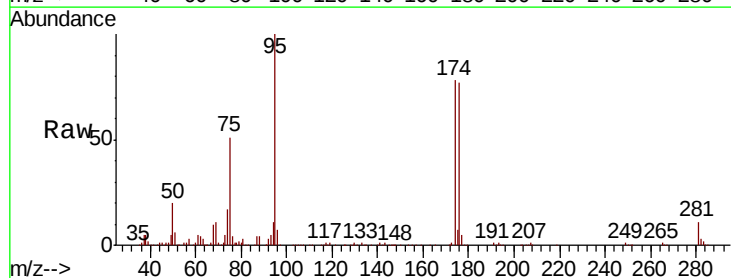
Acq: 10 Sep 2019 19:25

Tgt Ion: 75 Resp: 47277

Ion Ratio Lower Upper

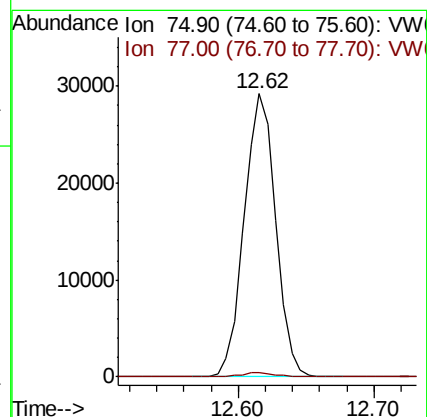
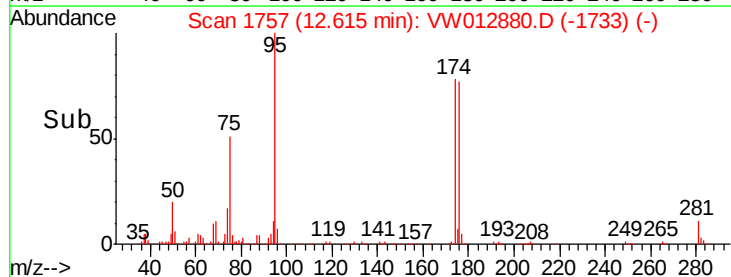
75 100

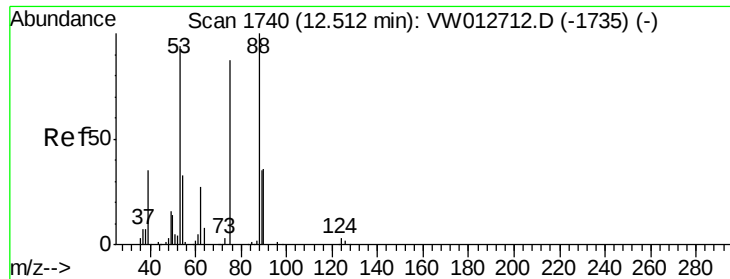
77 1.7 0.0 0.0#



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: 126.006 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

Instrument :

MSVOA_W

ClientSampleId :

SOUTH-AVENUE-4-ABCDRE

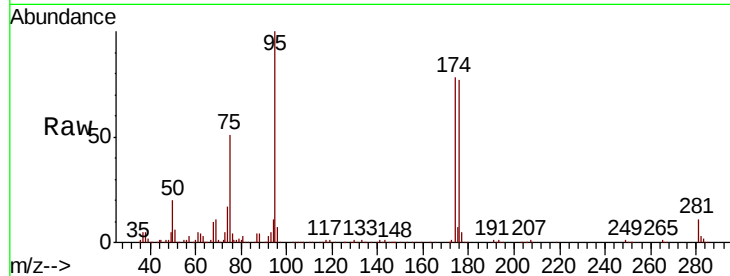
Tgt Ion: 75 Resp: 47277

Ion Ratio Lower Upper

75 100

53 0.2 87.6 131.4#

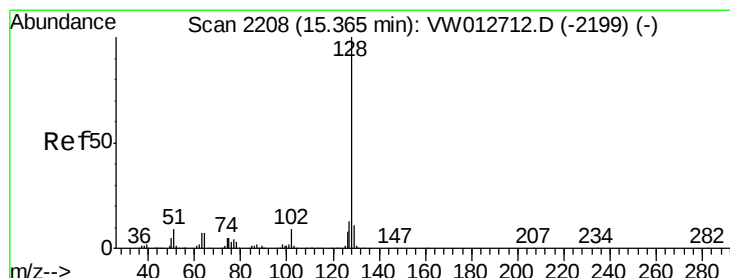
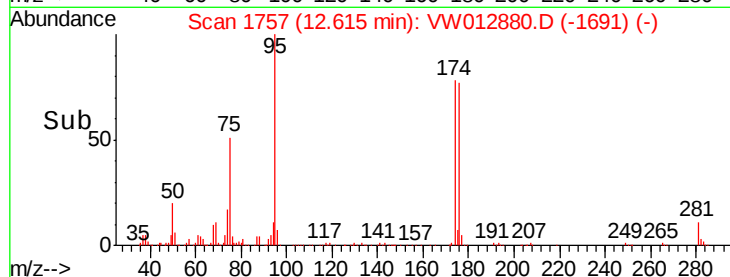
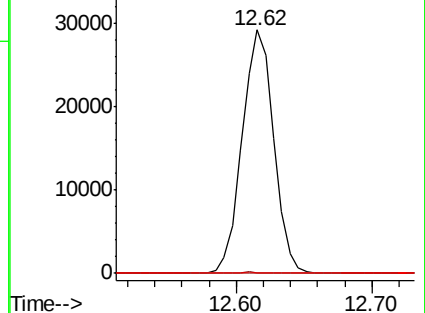
89 0.1 35.5 53.3#



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: 4.571 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012880.D

Acq: 10 Sep 2019 19:25

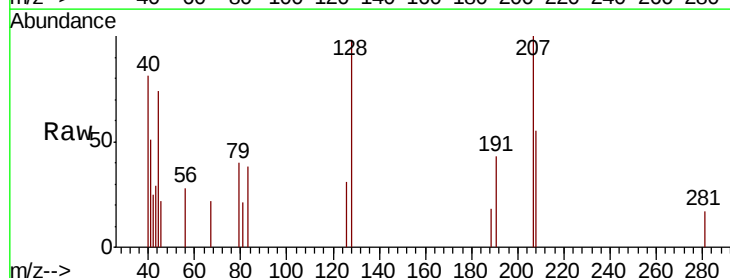
Tgt Ion: 128 Resp: 473

Ion Ratio Lower Upper

128 100

127 6.1 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

