

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072419\
 Data File : VW011459.D
 Acq On : 24 Jul 2019 03:57
 Operator : SY/VA
 Sample : K3934-06
 Misc : 5.04G/5ML/MSVOA W/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-3S-2

Quant Time: Jul 24 06:43:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070819S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 11 08:14:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	266285	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	438312	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	366353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	152684	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	164635	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
35) Dibromofluoromethane	7.88	113	130316	49.88	ug/l	0.00
Spiked Amount			Recovery	=	99.76%	
50) Toluene-d8	10.32	98	535969	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
62) 4-Bromofluorobenzene	12.62	95	176565	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

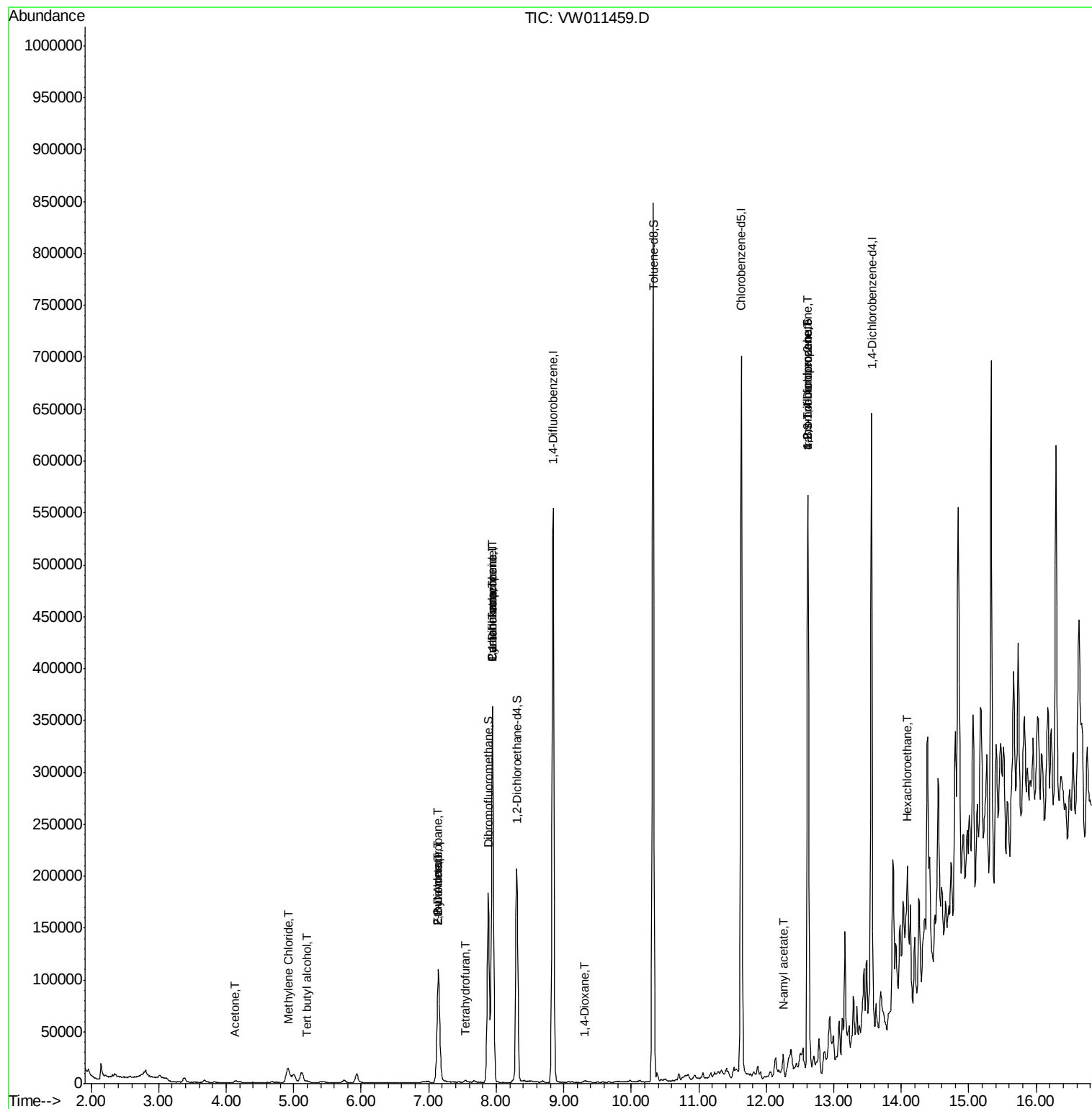
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.20	59	1490	6.015	ug/l #	93
16) Acetone	4.14	43	3281	4.075	ug/l	99
18) Methyl Acetate	4.68	43	2215	Below Cal		95
20) Methylene Chloride	4.92	84	10482	3.300	ug/l	85
25) 2-Butanone	7.14	43	6785	5.369	ug/l #	75
26) 2,2-Dichloropropane	7.14	77	7110	2.245	ug/l #	53
29) Tetrahydrofuran	7.53	42	1703	2.055	ug/l	97
31) Cyclohexane	7.94	56	6647	1.026	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	22693	4.862	ug/l #	51
37) Ethyl Acetate	7.14	43	6785	2.419	ug/l #	1
38) Carbon Tetrachloride	7.95	117	26222	6.627	ug/l #	16
49) 1,4-Dioxane	9.30	88	46	1.679	ug/l #	1
74) N-amyl acetate	12.25	43	6046	1.521	ug/l #	69
76) 1,2,3-Trichloropropane	12.62	75	93000	52.707	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	93000	119.214	ug/l #	6
90) Hexachloroethane	14.10	117	2414	1.262	ug/l #	14

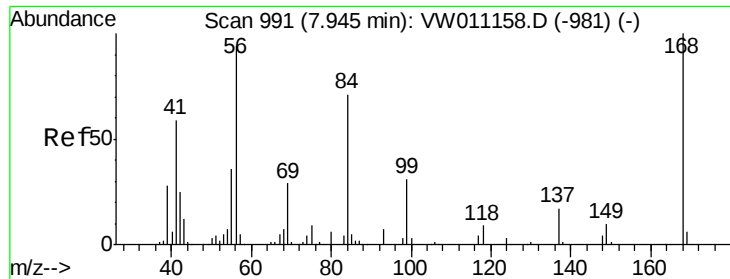
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW011459.D

Acq: 24 Jul 2019 03:57

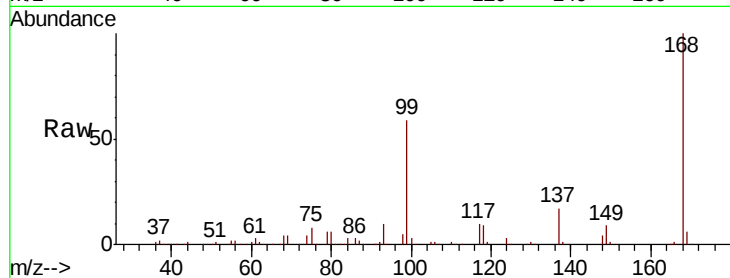
Instrument :
MSVOA_W
ClientSampled :
TP-3S-2

Tot Ion:168 Resp: 266285

Ion Ratio Lower Upper

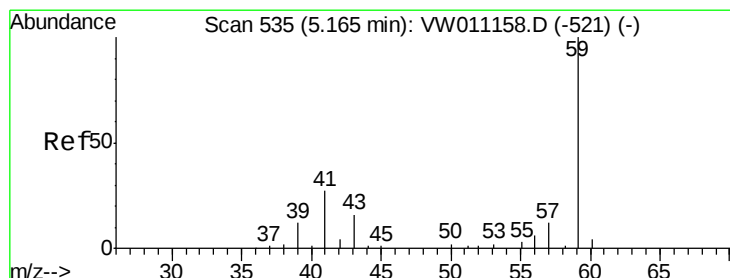
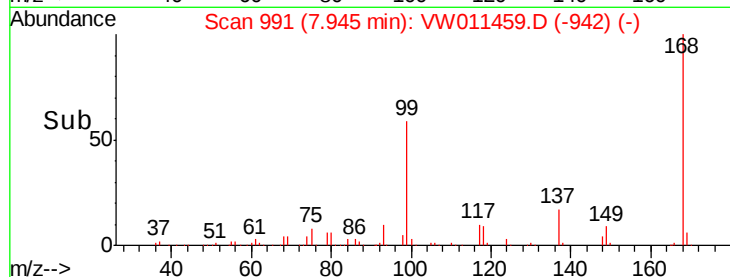
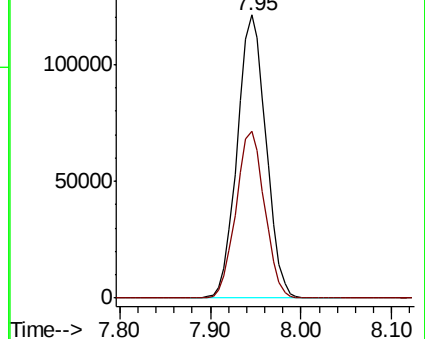
168 100

99 59.2 50.1 75.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 6.015 ug/l

RT: 5.20 min Scan# 540

Delta R.T. 0.03 min

Lab File: VW011459.D

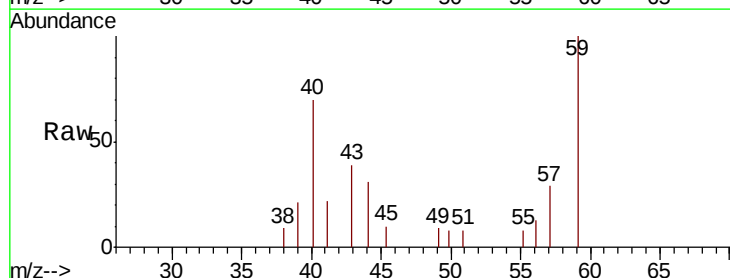
Acq: 24 Jul 2019 03:57

Tgt Ion: 59 Resp: 1490

Ion Ratio Lower Upper

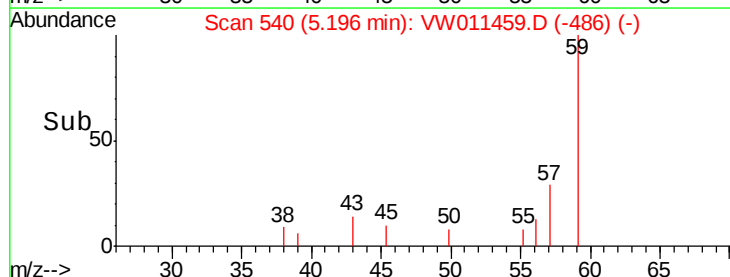
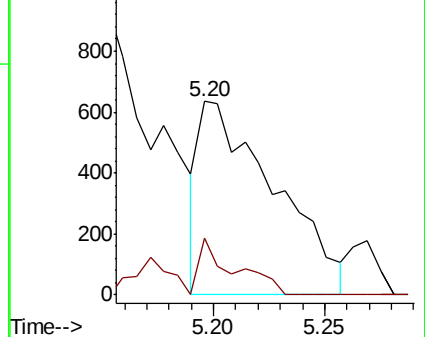
59 100

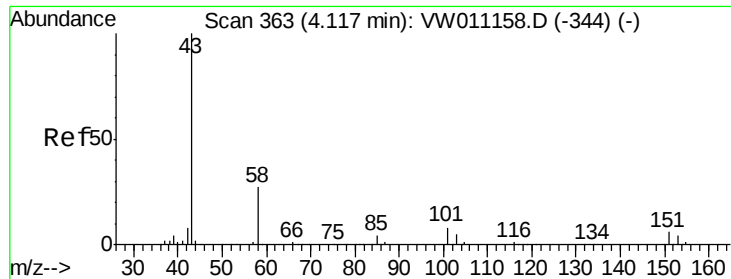
57 13.8 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 4.075 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampled :

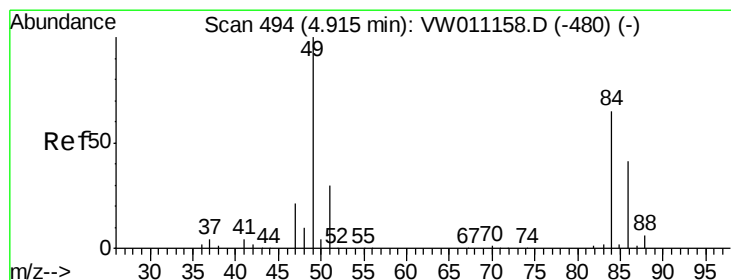
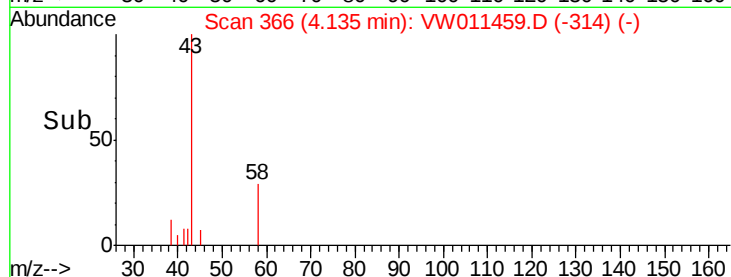
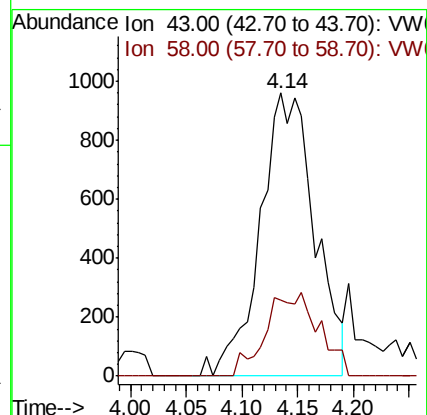
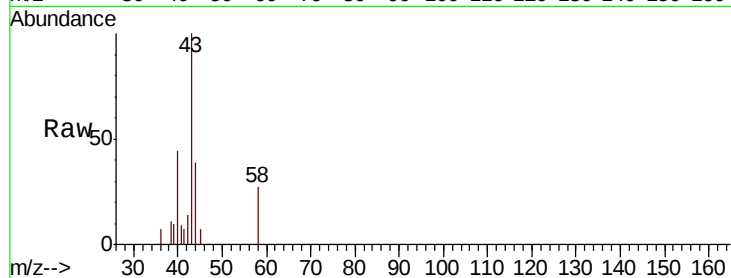
TP-3S-2

Tot Ion: 43 Resp: 3281

Ion Ratio Lower Upper

43 100

58 26.8 21.8 32.6



#20

Methylene Chloride

Concen: 3.300 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Tgt Ion: 84 Resp: 10482

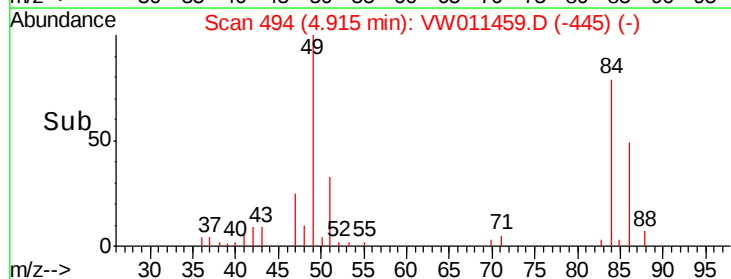
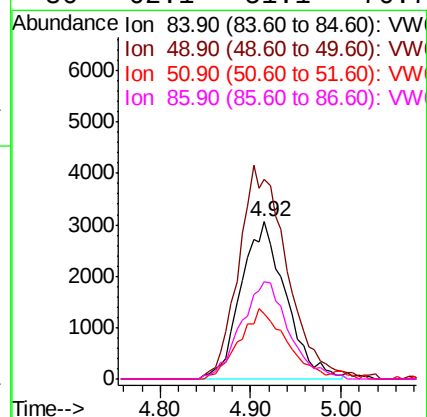
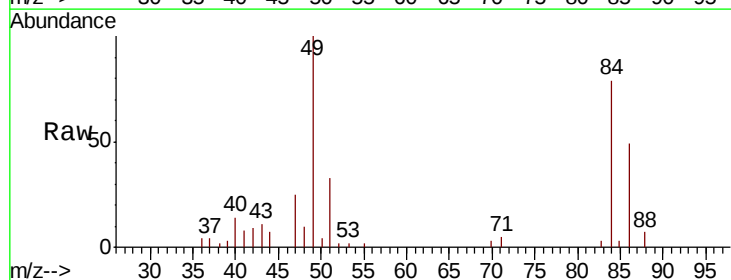
Ion Ratio Lower Upper

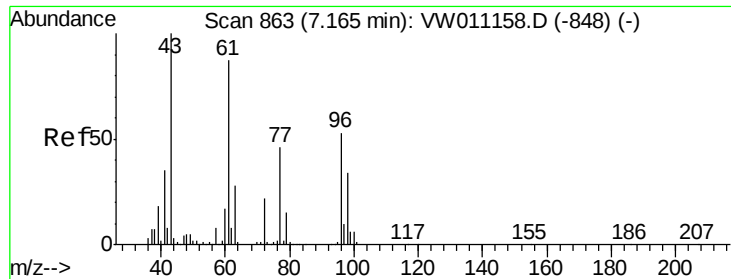
84 100

49 126.7 123.8 185.6

51 41.7 37.4 56.2

86 62.1 51.1 76.7





#25

2-Butanone

Concen: 5.369 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampled :

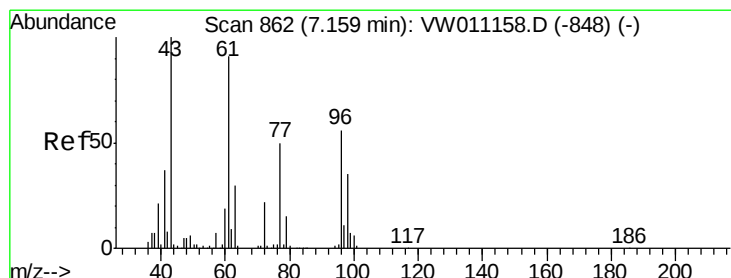
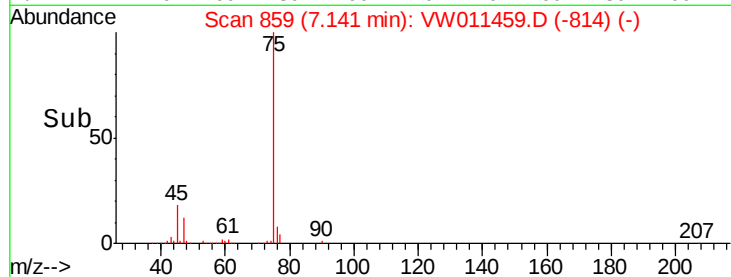
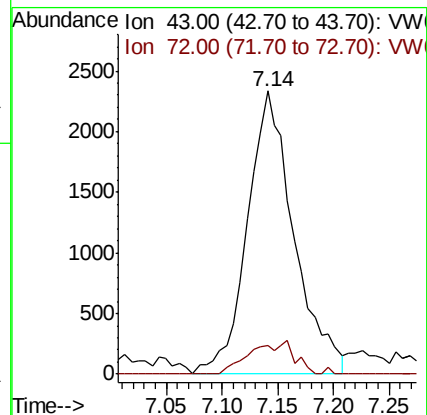
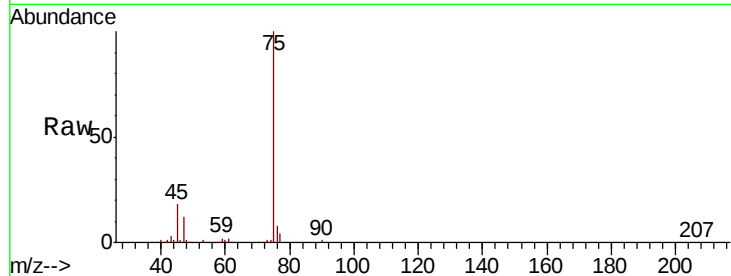
TP-3S-2

Tot Ion: 43 Resp: 6785

Ion Ratio Lower Upper

43 100

72 10.2 17.6 26.4#



#26

2,2-Dichloropropane

Concen: 2.245 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW011459.D

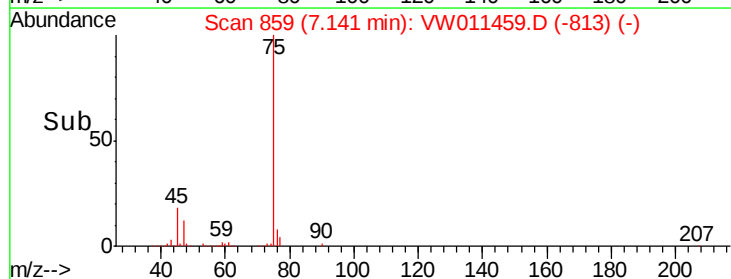
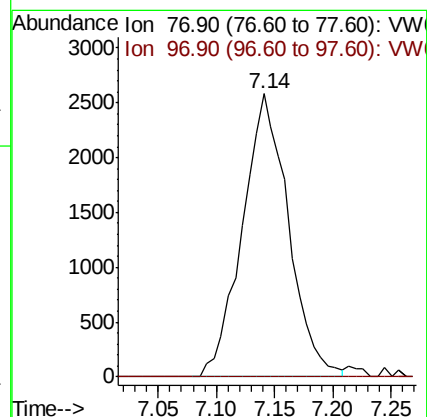
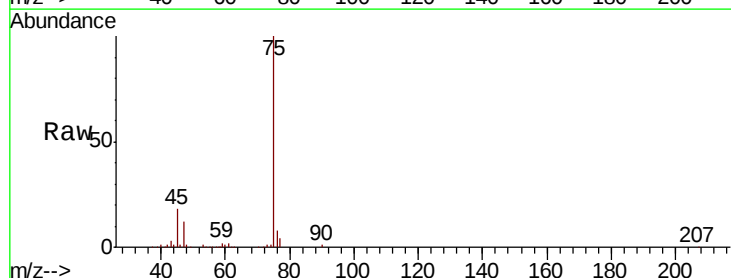
Acq: 24 Jul 2019 03:57

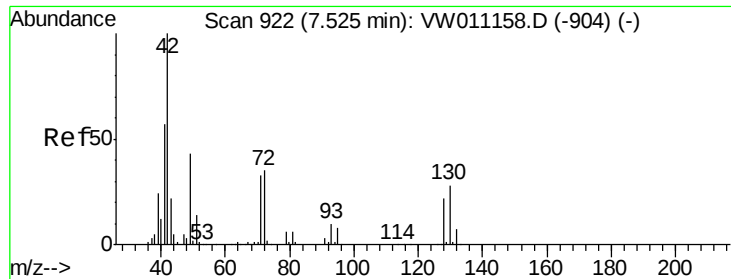
Tgt Ion: 77 Resp: 7110

Ion Ratio Lower Upper

77 100

97 0.0 11.2 33.5#

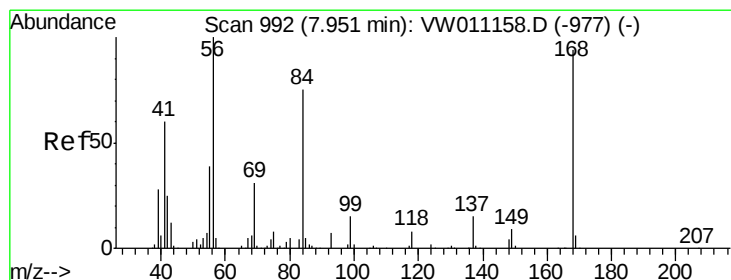
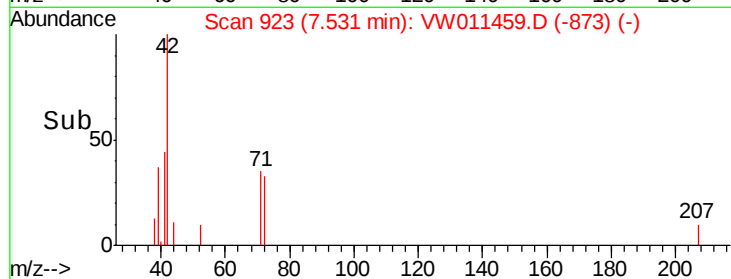
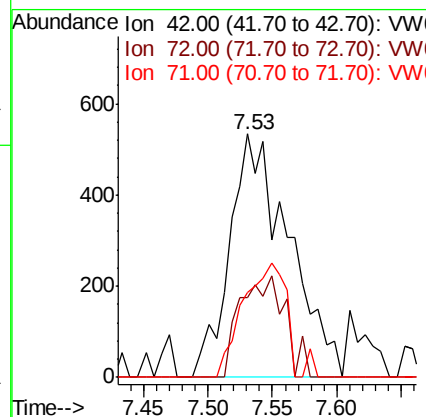
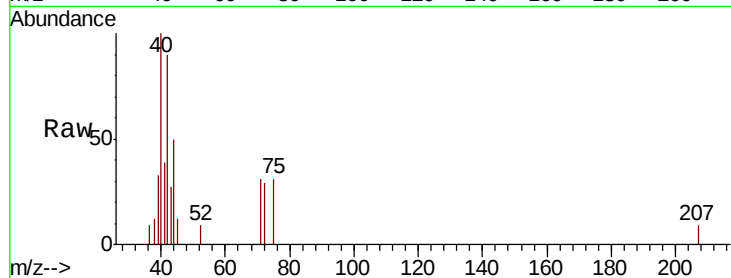




#29
Tetrahydrofuran
Concen: 2.055 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

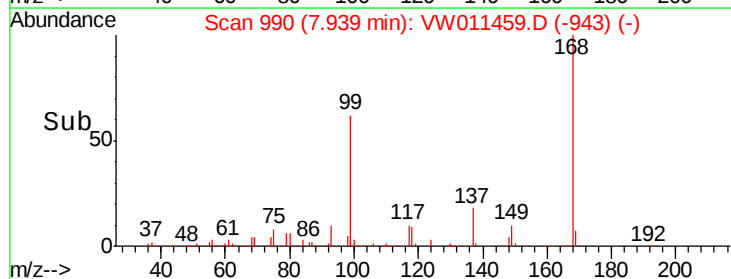
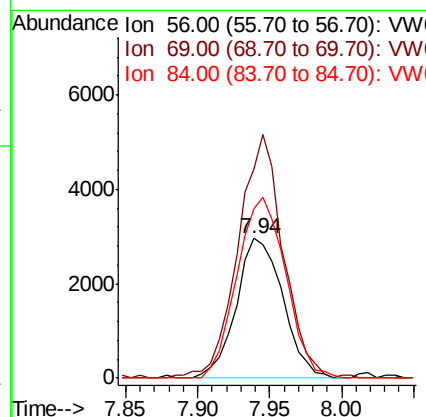
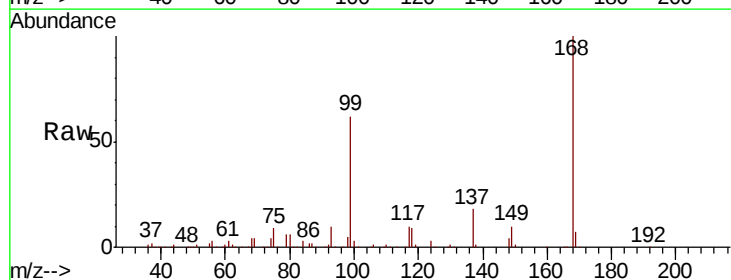
Instrument :
MSVOA_W
ClientSampleId :
TP-3S-2

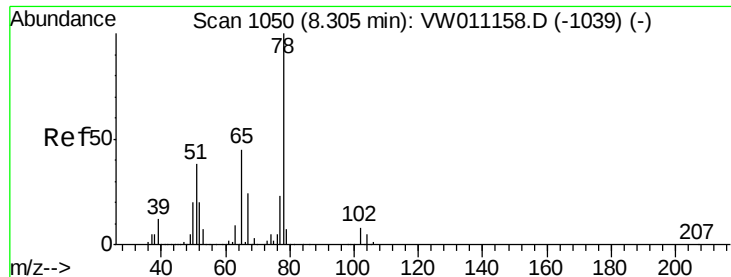
Tot Ion: 42 Resp: 1703
Ion Ratio Lower Upper
42 100
72 31.7 27.4 41.2
71 33.5 25.9 38.9



#31
Cyclohexane
Concen: 1.026 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.01 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

Tgt Ion: 56 Resp: 6647
Ion Ratio Lower Upper
56 100
69 147.7 24.6 36.8#
84 121.4 60.1 90.1#





#33

1,2-Dichloroethane-d4

Concen: 49.204 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleId :

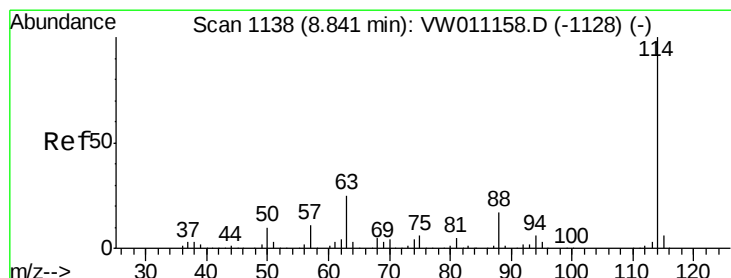
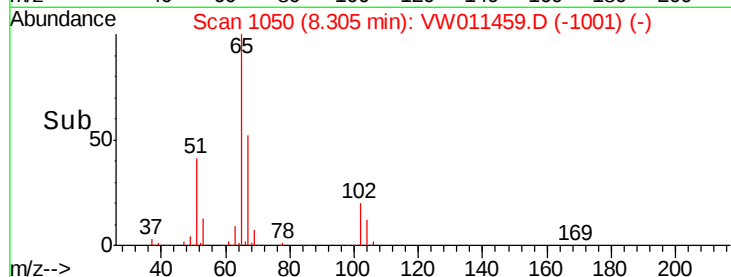
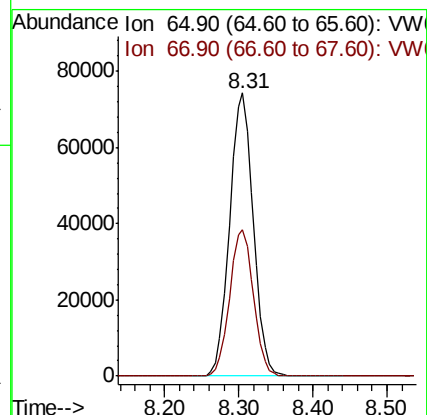
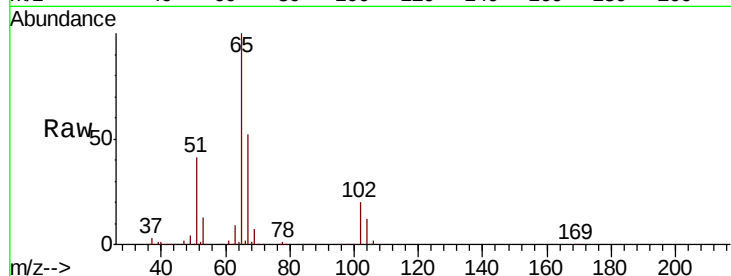
TP-3S-2

Tot Ion: 65 Resp: 164635

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

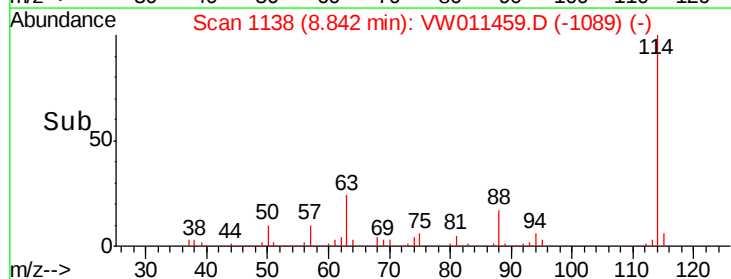
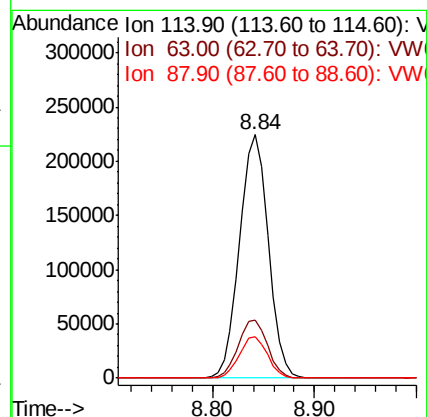
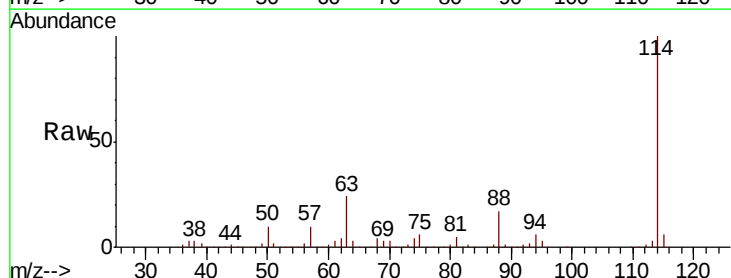
Tgt Ion: 114 Resp: 438312

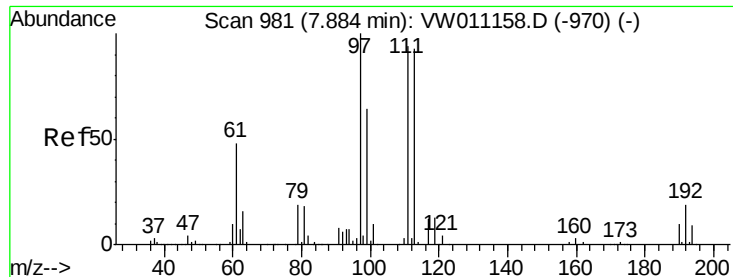
Ion Ratio Lower Upper

114 100

63 23.6 0.0 50.8

88 17.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.881 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleId :

TP-3S-2

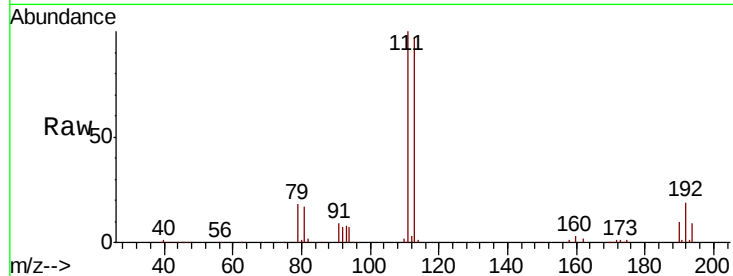
Tot Ion:113 Resp: 130316

Ion Ratio Lower Upper

113 100

111 103.8 82.4 123.6

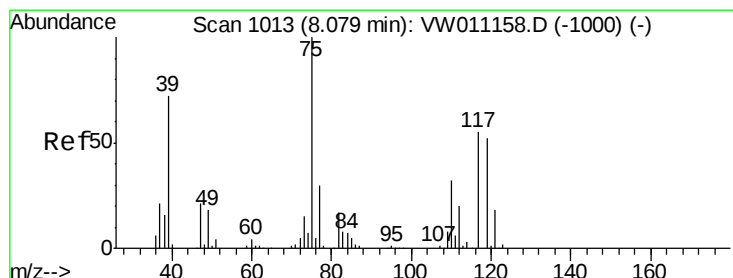
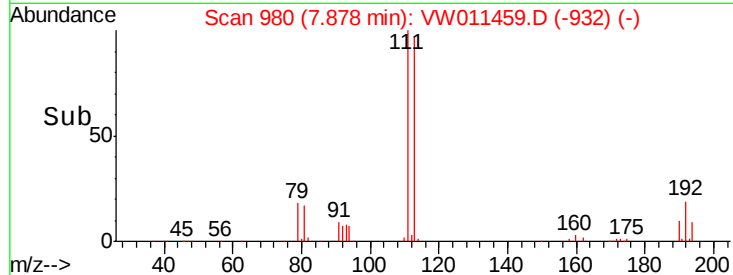
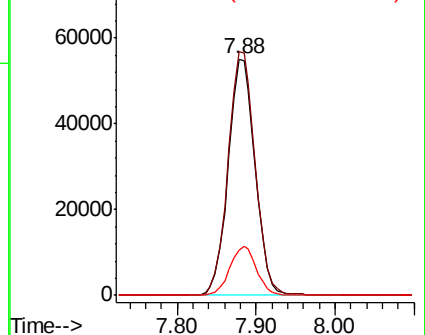
192 20.6 15.8 23.8



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: 4.862 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

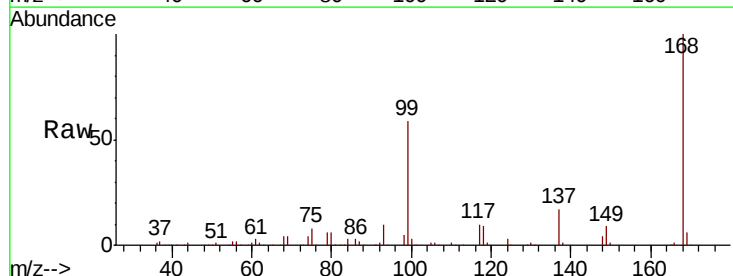
Tgt Ion: 75 Resp: 22693

Ion Ratio Lower Upper

75 100

110 7.7 15.9 47.6#

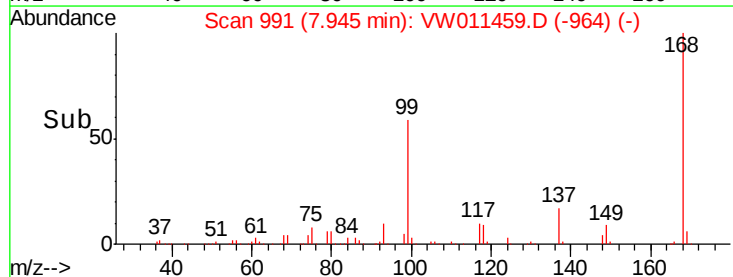
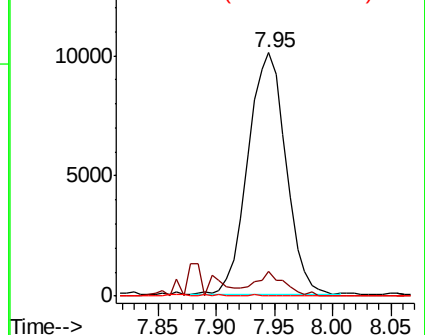
77 0.1 24.6 36.8#

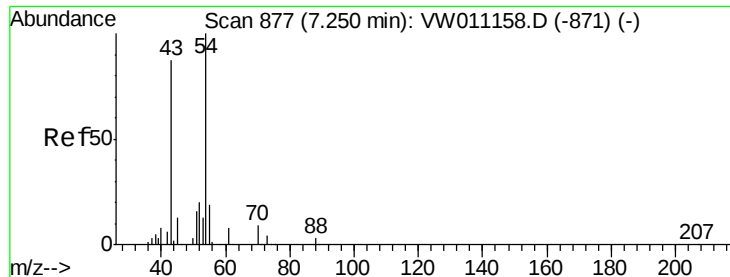


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW

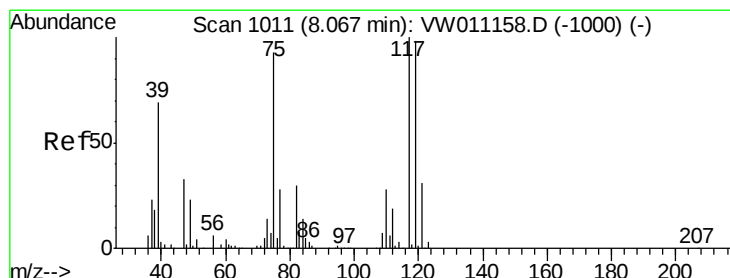
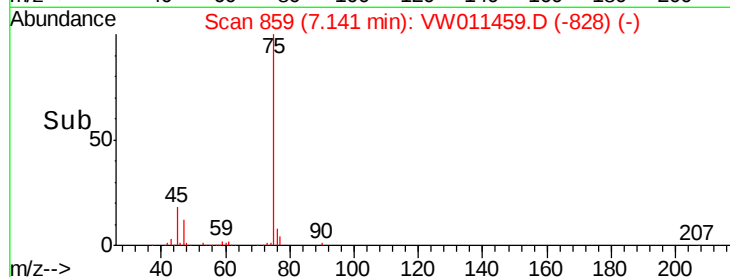
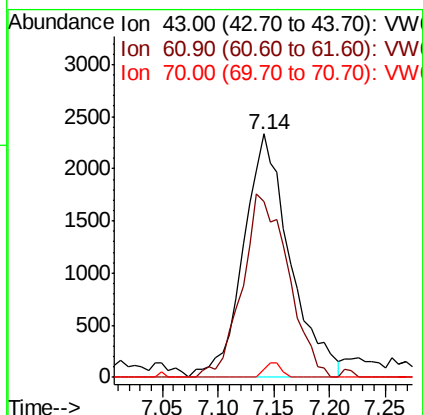
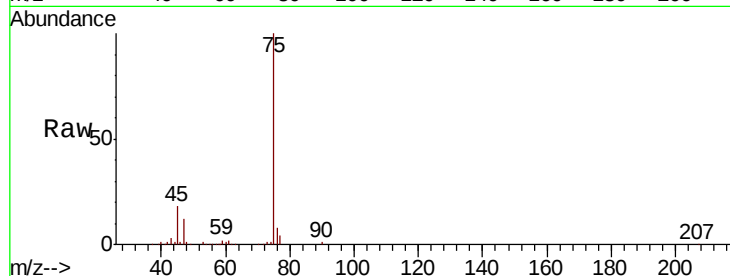




#37
Ethyl Acetate
Concen: 2.419 ug/l
RT: 7.14 min Scan# 859
Delta R.T. -0.11 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

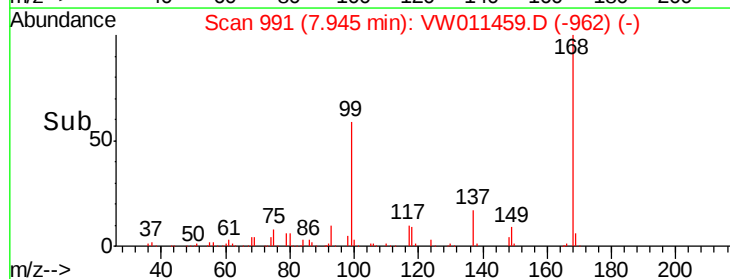
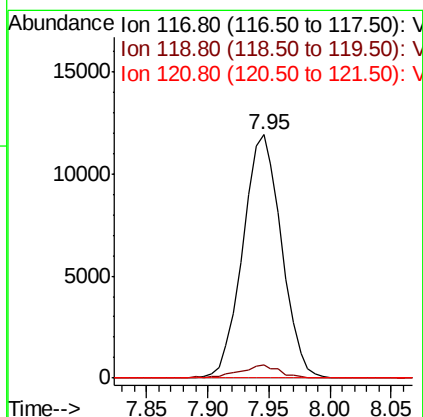
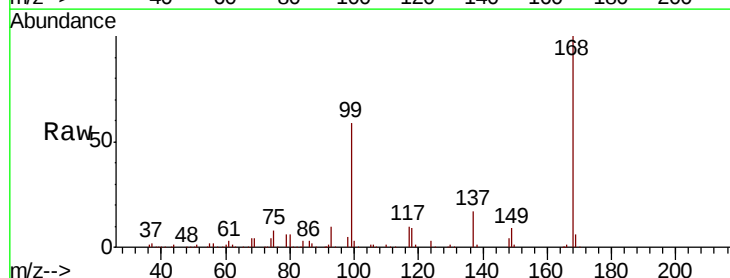
Instrument :
MSVOA_W
ClientSampleId :
TP-3S-2

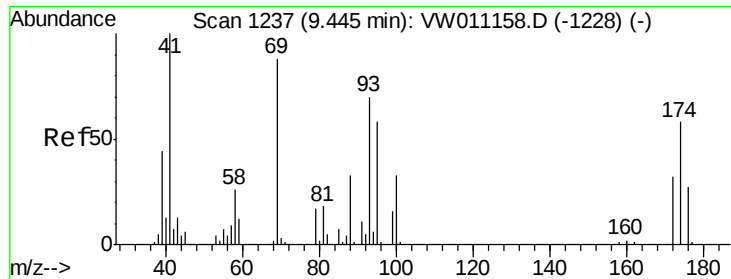
Tot Ion: 43 Resp: 6785
Ion Ratio Lower Upper
43 100
61 74.4 9.5 14.3#
70 2.2 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 6.627 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

Tgt Ion: 117 Resp: 26222
Ion Ratio Lower Upper
117 100
119 5.5 78.1 117.1#
121 0.0 25.1 37.7#





#49

1,4-Dioxane

Concen: 1.679 ug/l

RT: 9.30 min Scan# 1213

Delta R.T. -0.15 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleID :

TP-3S-2

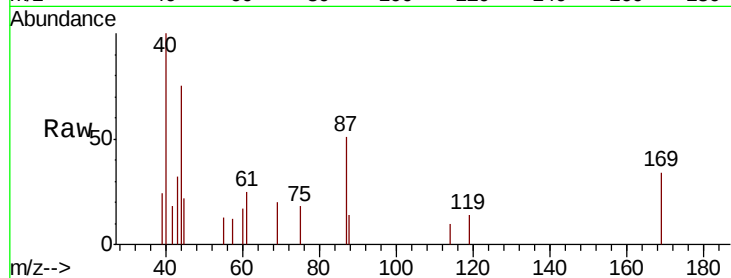
Tot Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 650.0 33.4 50.0#

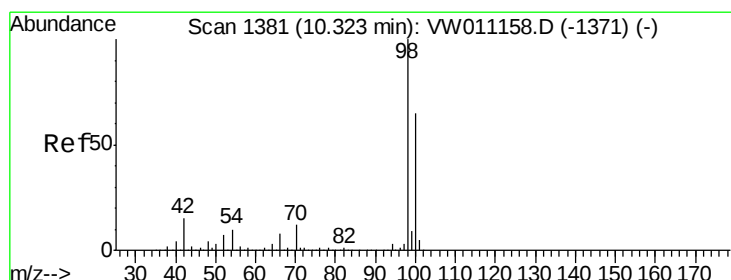
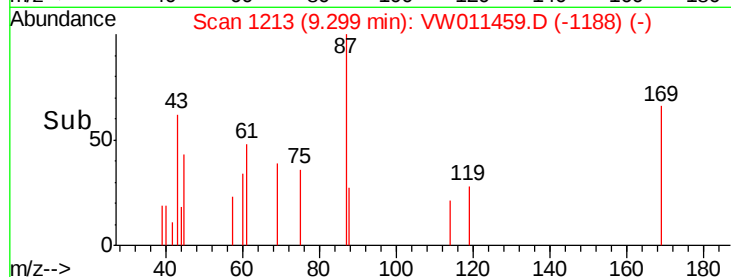
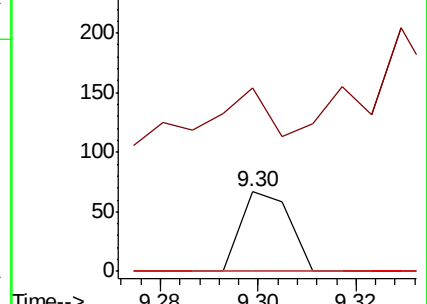
58 0.0 64.5 96.7#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 50.753 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW011459.D

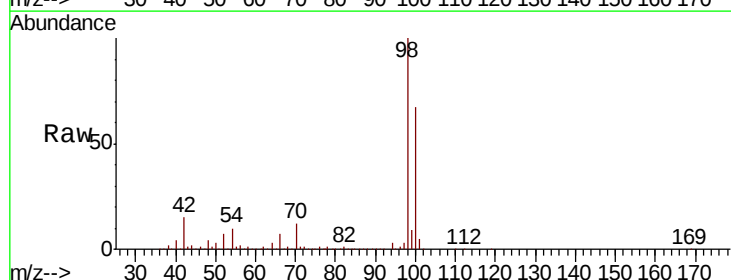
Acq: 24 Jul 2019 03:57

Tgt Ion: 98 Resp: 535969

Ion Ratio Lower Upper

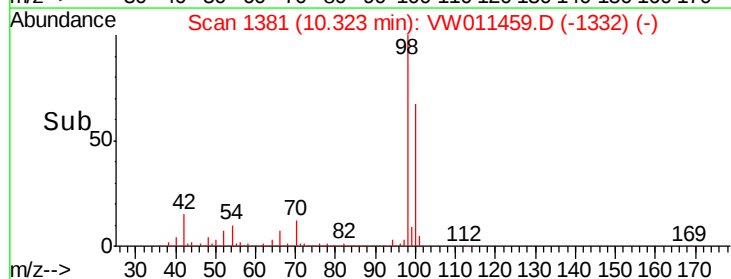
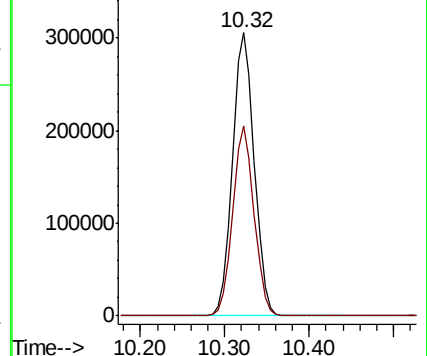
98 100

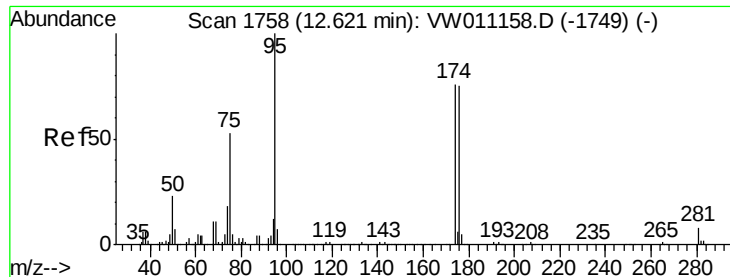
100 65.9 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

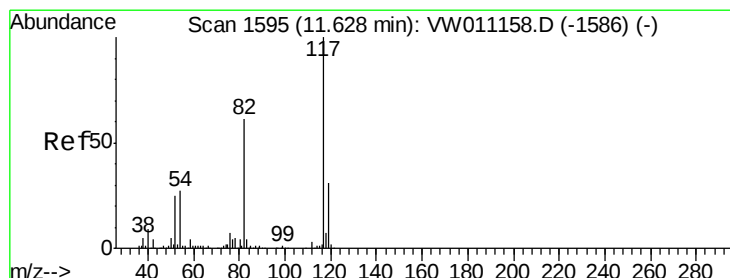
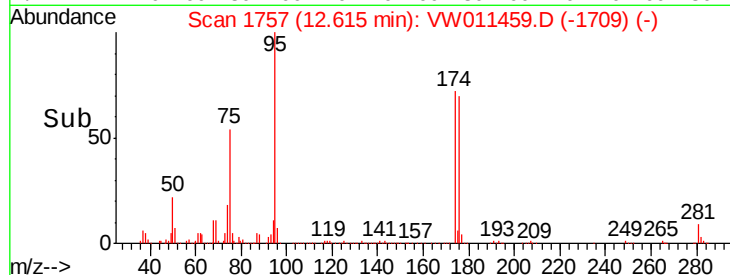
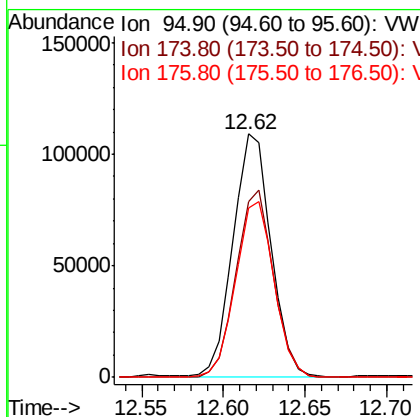
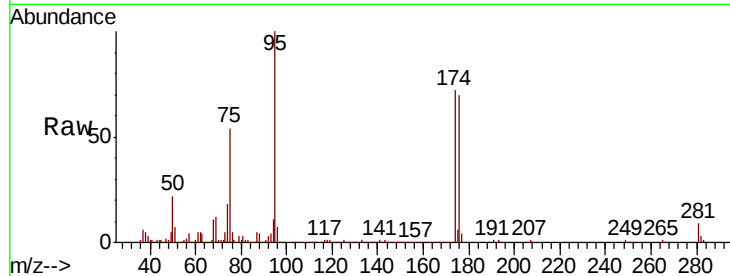




#62
4-Bromofluorobenzene
Concen: 45.616 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

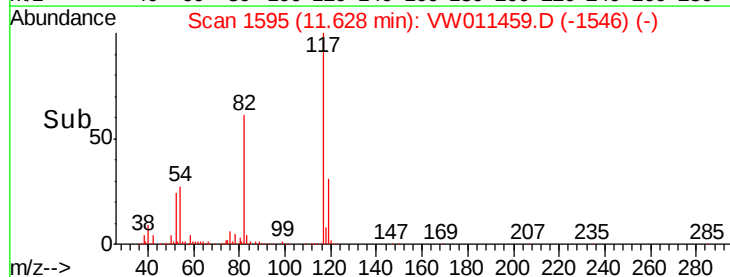
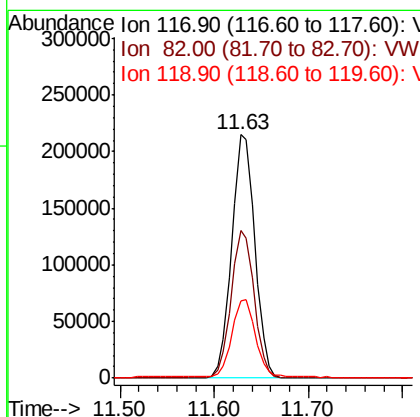
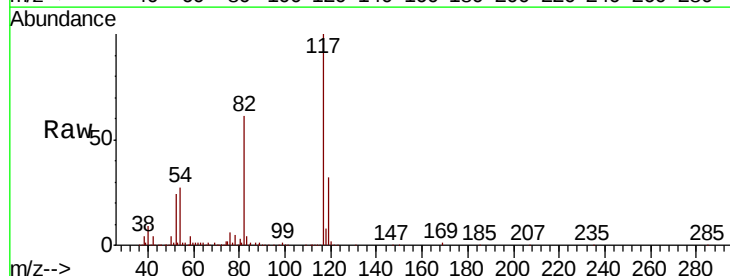
Instrument :
MSVOA_W
ClientSampled :
TP-3S-2

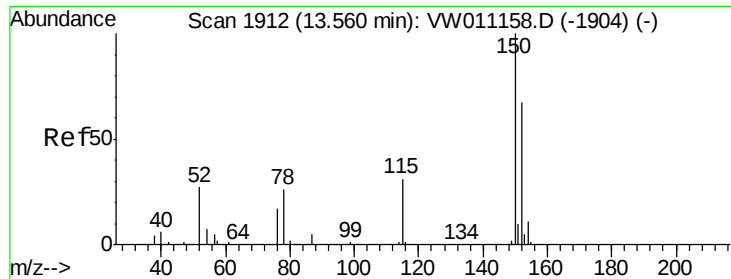
Tot Ion	Ratio	Lower	Upper
95	100		
174	76.2	0.0	147.6
176	73.2	0.0	144.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW011459.D
Acq: 24 Jul 2019 03:57

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.8	48.9	73.3
119	31.5	25.0	37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleId :

TP-3S-2

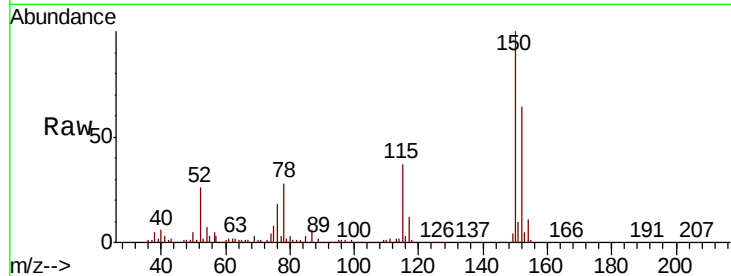
Tot Ion:152 Resp: 152684

Ion Ratio Lower Upper

152 100

115 59.5 30.1 90.3

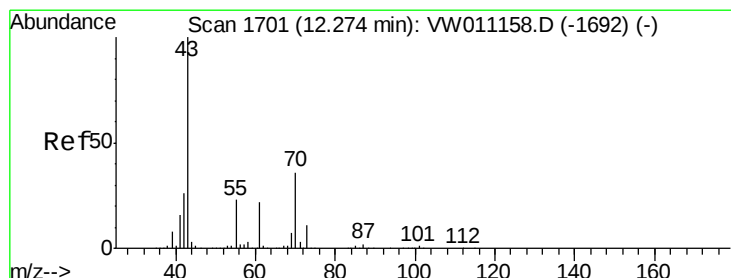
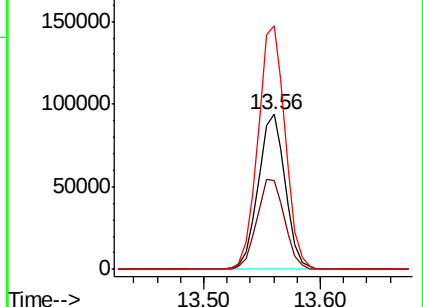
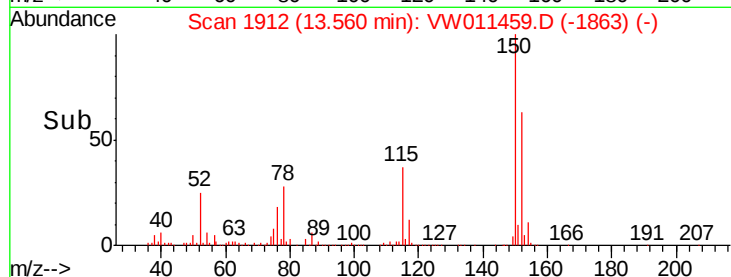
150 157.6 0.0 346.0



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



#74

N-ethyl acetate

Concen: 1.521 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Tgt Ion: 43 Resp: 6046

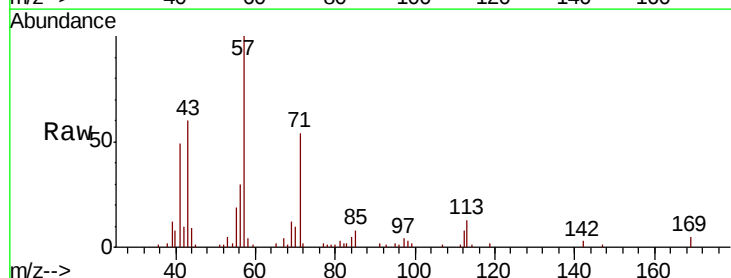
Ion Ratio Lower Upper

43 100

70 28.9 28.5 42.7

55 0.0 18.1 27.1#

61 0.0 17.2 25.8#

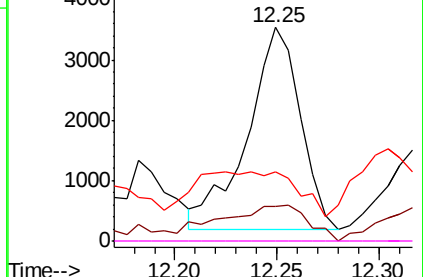
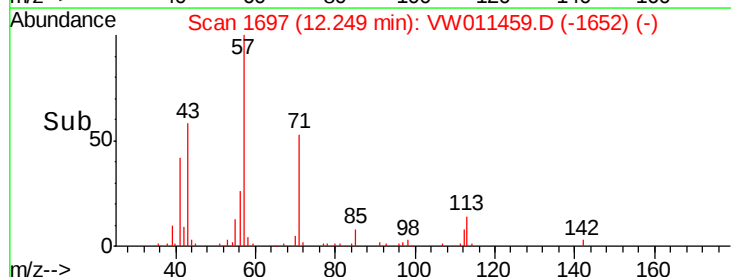


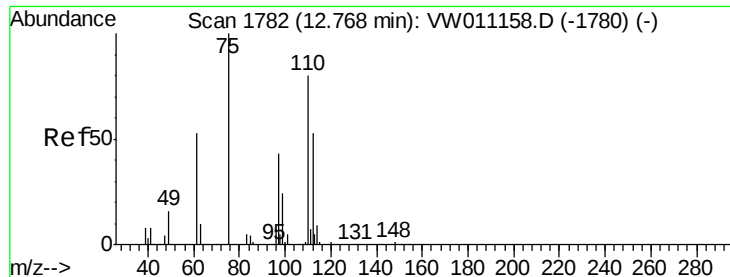
Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 52.707 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleId :

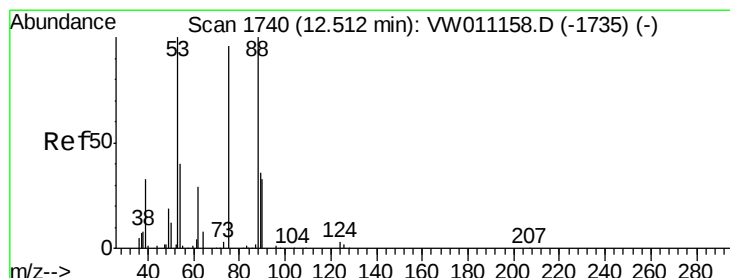
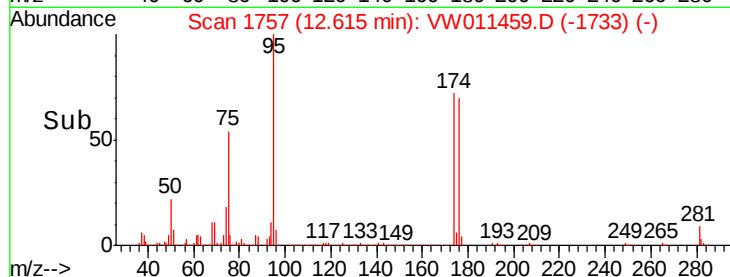
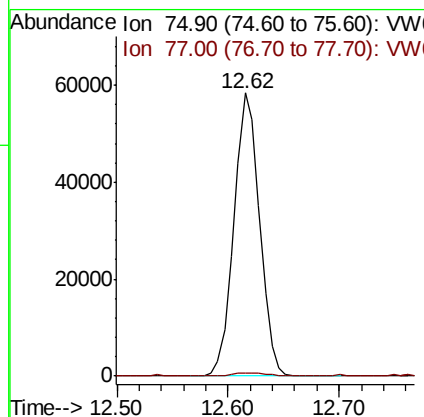
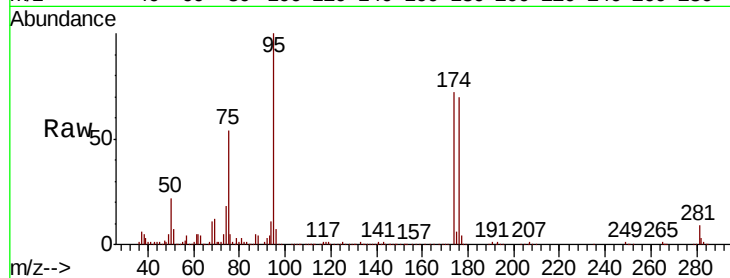
TP-3S-2

Tot Ion: 75 Resp: 93000

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 119.214 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

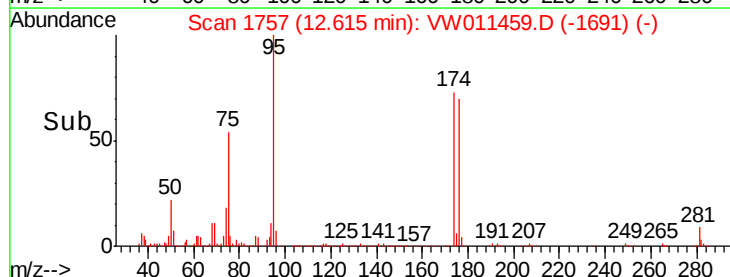
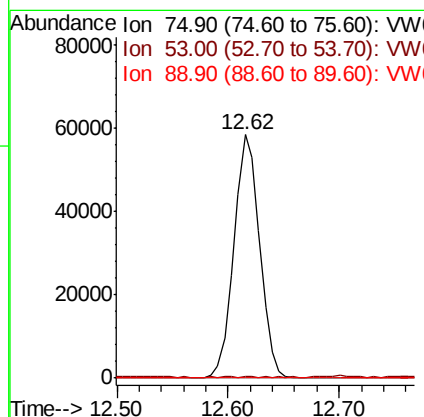
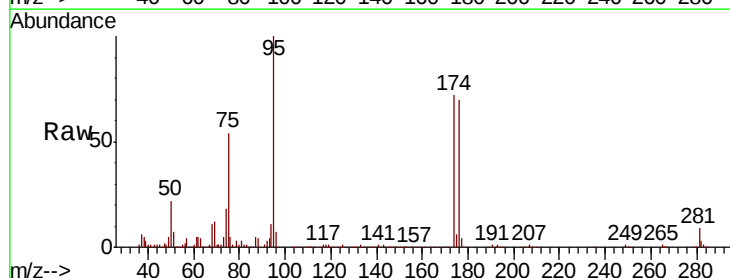
Tgt Ion: 75 Resp: 93000

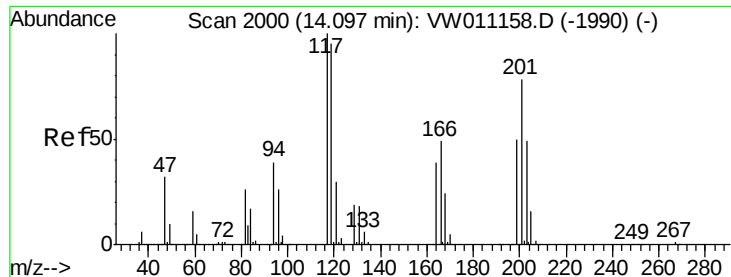
Ion Ratio Lower Upper

75 100

53 0.1 89.8 134.6#

89 0.1 34.3 51.5#





#90

Hexachloroethane

Concen: 1.262 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW011459.D

Acq: 24 Jul 2019 03:57

Instrument :

MSVOA_W

ClientSampleId :

TP-3S-2

Tot Ion:117 Resp: 2414

Ion Ratio Lower Upper

117 100

201 2.2 38.3 114.8#

