

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW090319\
 Data File : VW012568.D
 Acq On : 04 Sep 2019 01:49
 Operator : SY/VA
 Sample : K4544-17
 Misc : 4.41G/5ML/MSVOA_W/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 T16-17-C3-(2.25)

Quant Time: Sep 04 06:52:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W082319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 26 07:18:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	26347	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	40457	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	32775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	7532	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	18101	57.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.58%	
35) Dibromofluoromethane	7.88	113	13863	57.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.82%	
50) Toluene-d8	10.32	98	47846	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.62	95	12193	35.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.66%	

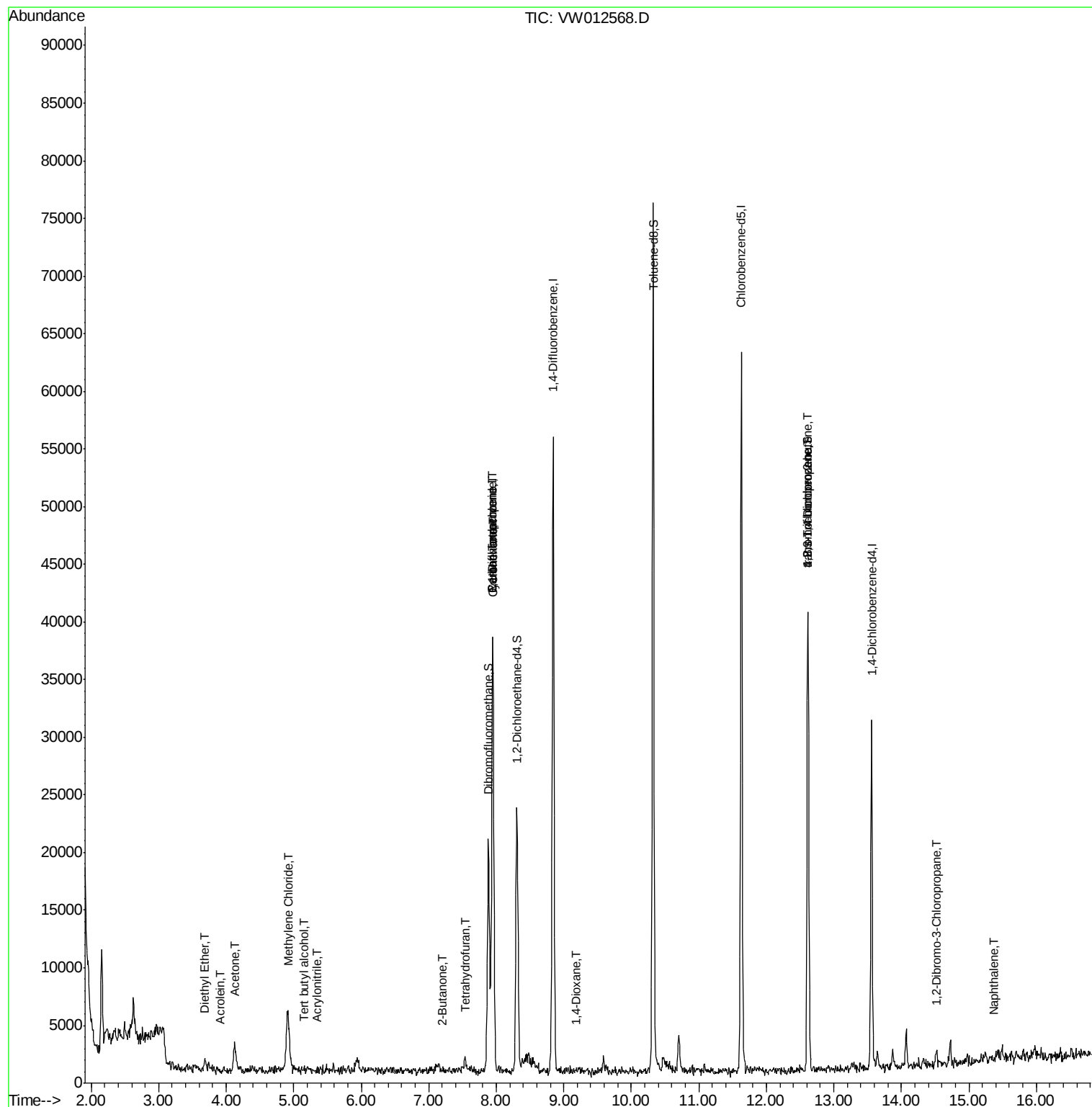
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	346	2.360	ug/l	56
11) Tert butyl alcohol	5.16	59	212	11.248	ug/l #	71
13) Acrolein	3.91	56	159	8.962	ug/l #	29
15) Acrylonitrile	5.34	53	94	1.293	ug/l #	17
16) Acetone	4.13	43	3911	48.850	ug/l	93
20) Methylene Chloride	4.92	84	3650	12.060	ug/l #	60
25) 2-Butanone	7.20	43	110	1.011	ug/l #	56
29) Tetrahydrofuran	7.54	42	955	14.631	ug/l #	69
31) Cyclohexane	7.96	56	931	1.650	ug/l #	45
36) 1,1-Dichloropropene	7.94	75	2548	6.095	ug/l #	51
38) Carbon Tetrachloride	7.95	117	3331	9.205	ug/l #	18
49) 1,4-Dioxane	9.18	88	41	19.592	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	6402	87.273	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	6402	191.348	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	14.52	75	48	2.752	ug/l #	5
95) Naphthalene	15.36	128	87	4.601	ug/l #	25

(#) = 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# 992

Delta R.T. 0.01 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

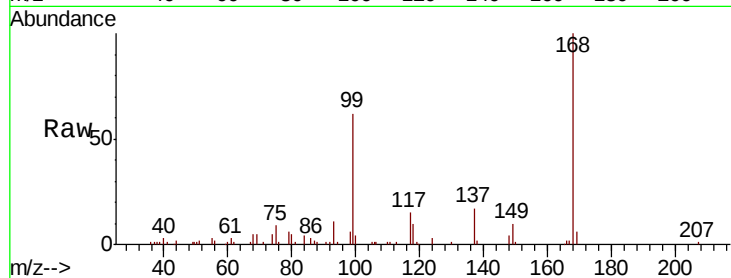
T16-17-C3-(2.25)

Tgt Ion:168 Resp: 26347

Ion Ratio Lower Upper

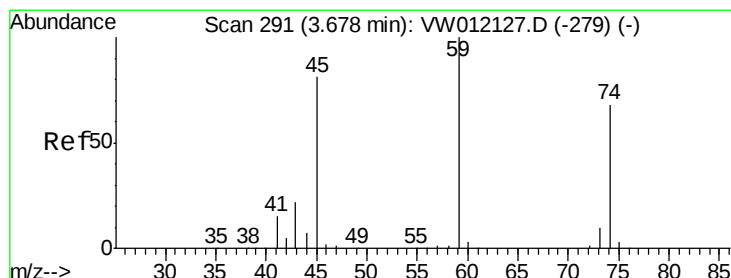
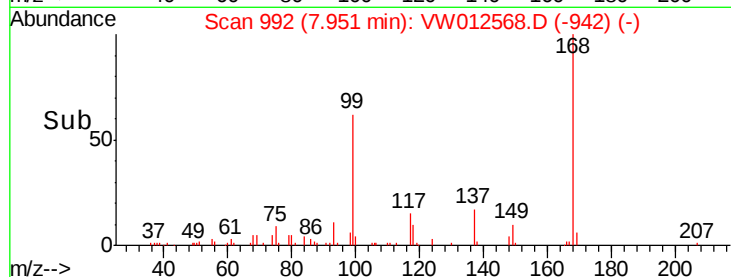
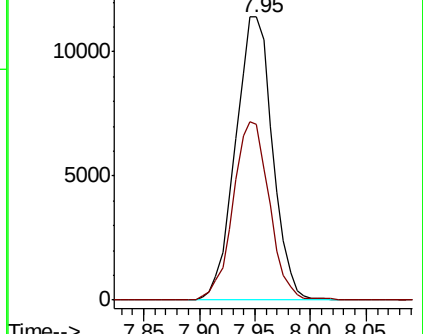
168 100

99 62.0 49.2 73.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 2.360 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW012568.D

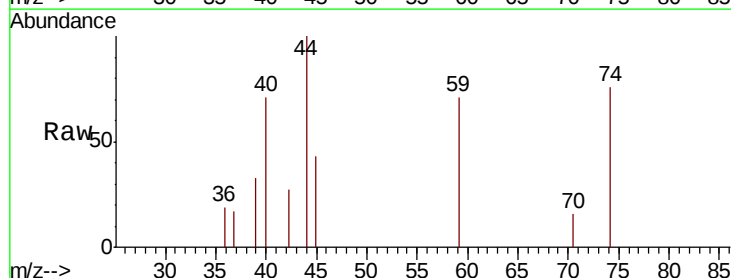
Acq: 04 Sep 2019 01:49

Tgt Ion: 74 Resp: 346

Ion Ratio Lower Upper

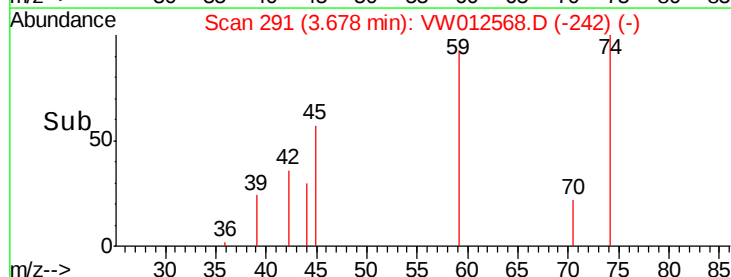
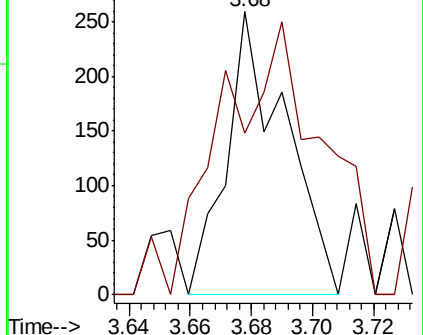
74 100

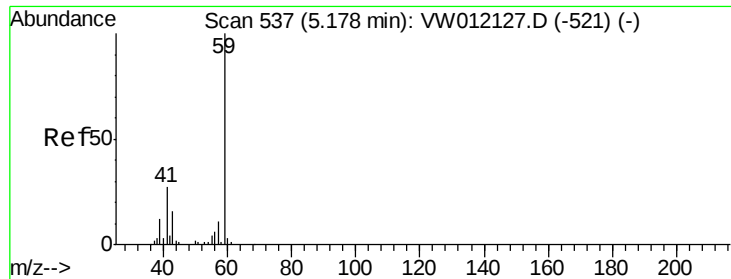
45 166.8 59.2 177.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

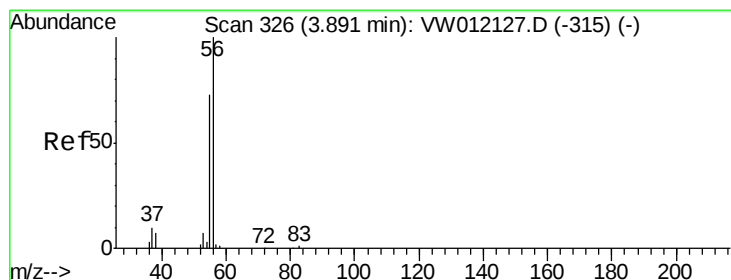
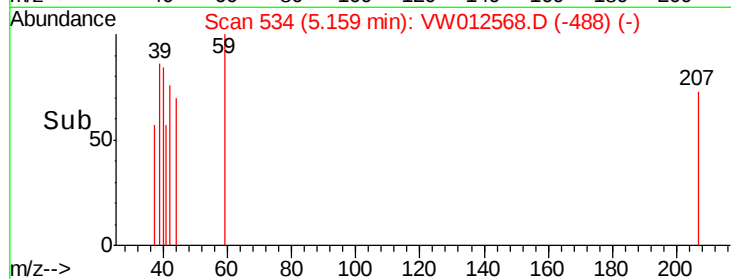
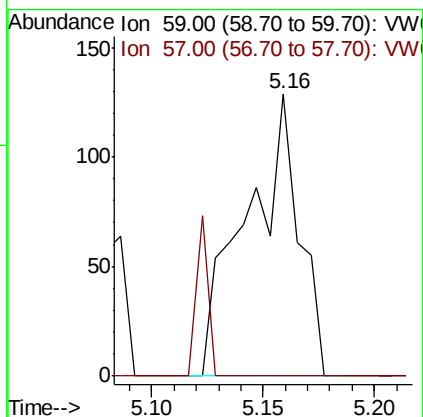
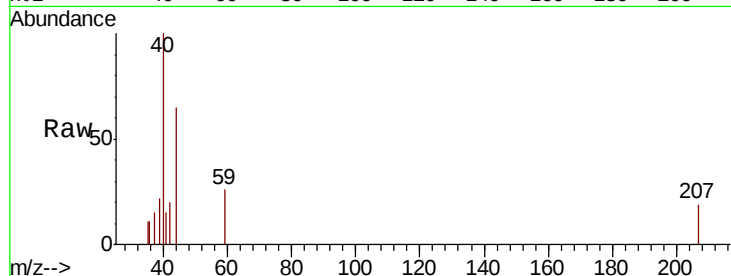




#11
Tert butyl alcohol
Concen: 11.248 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.02 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

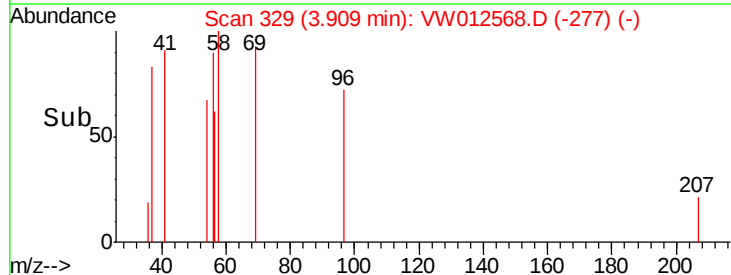
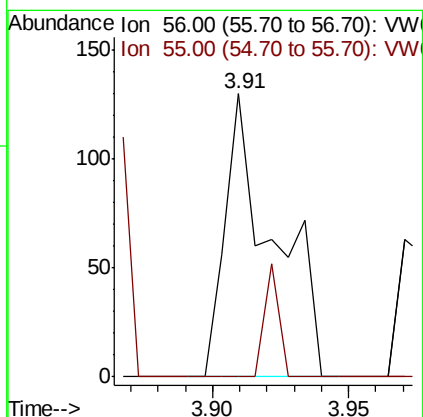
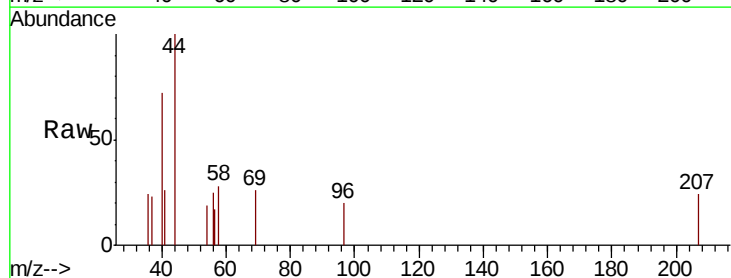
Instrument :
MSVOA_W
ClientSampled :
T16-17-C3-(2.25)

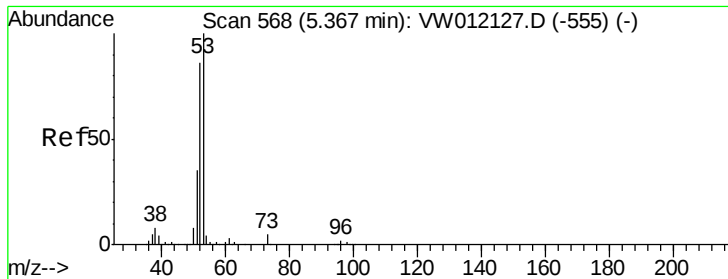
Tgt Ion: 59 Resp: 212
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 8.962 ug/l
RT: 3.91 min Scan# 329
Delta R.T. 0.02 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

Tgt Ion: 56 Resp: 159
Ion Ratio Lower Upper
56 100
55 11.9 55.8 83.8#





#15

Acrylonitrile

Concen: 1.293 ug/l

RT: 5.34 min Scan# 564

Delta R.T. -0.02 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampled :

T16-17-C3-(2.25)

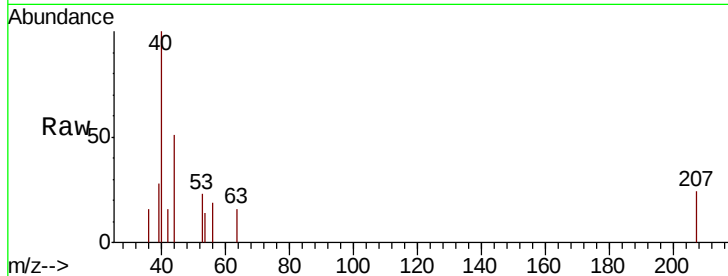
Tgt Ion: 53 Resp: 94

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

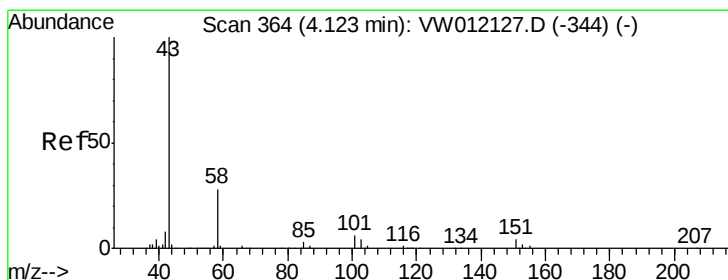
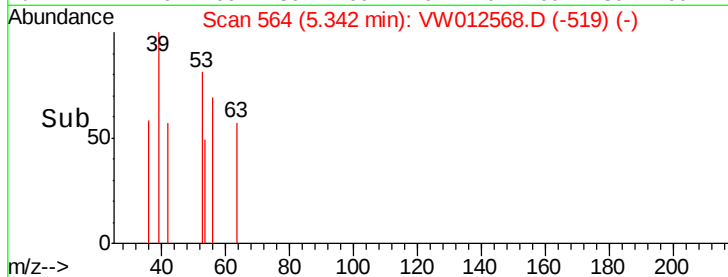
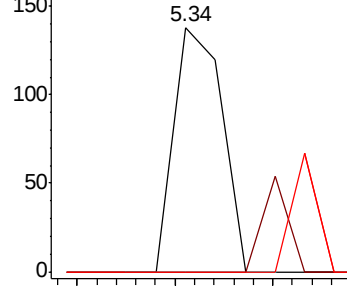
51 0.0 30.1 45.1#



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 48.850 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW012568.D

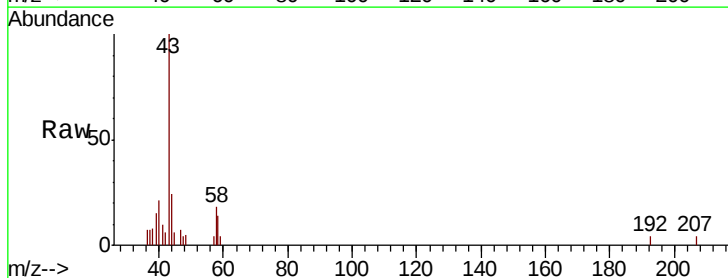
Acq: 04 Sep 2019 01:49

Tgt Ion: 43 Resp: 3911

Ion Ratio Lower Upper

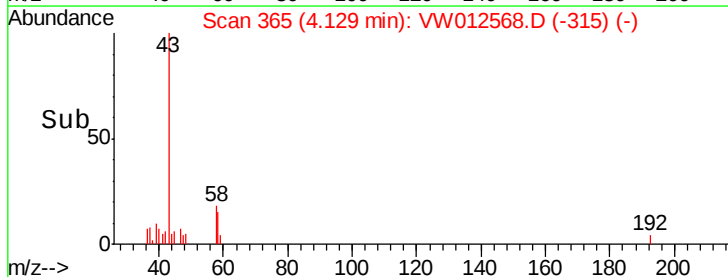
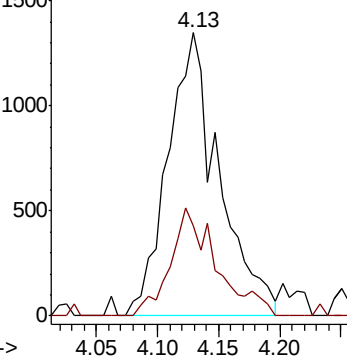
43 100

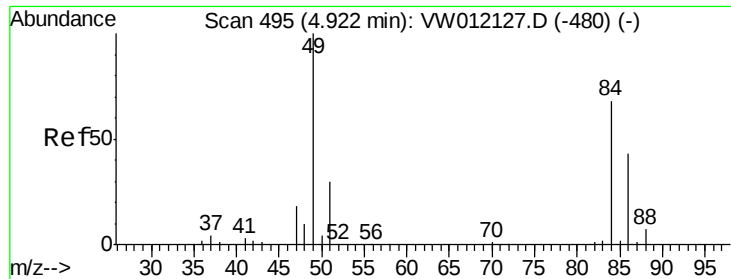
58 31.9 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

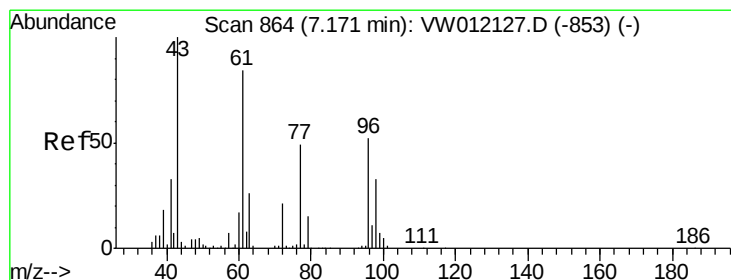
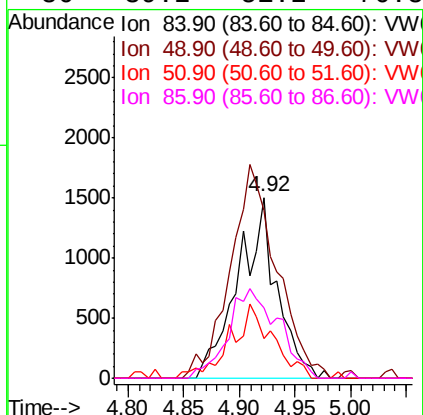
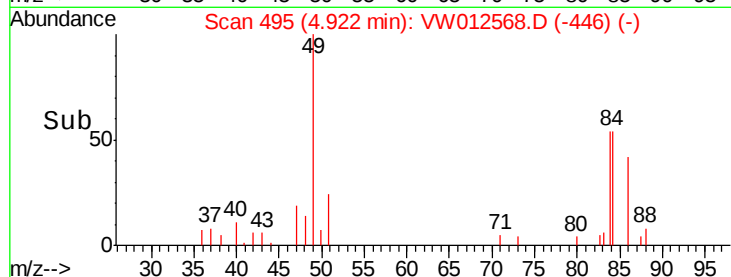
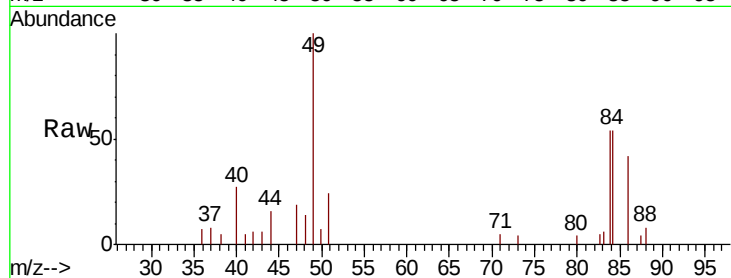




#20
Methylene Chloride
Concen: 12.060 ug/l
RT: 4.92 min Scan# 495
Delta R.T. -0.00 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

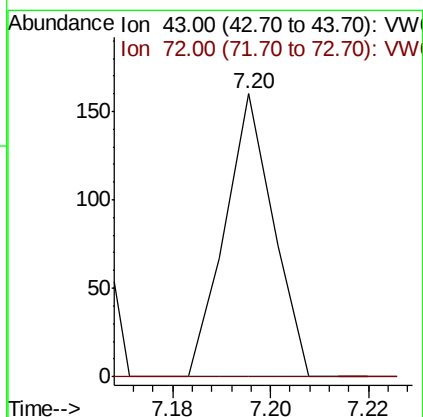
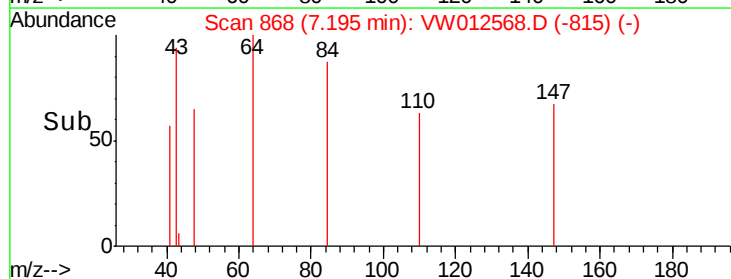
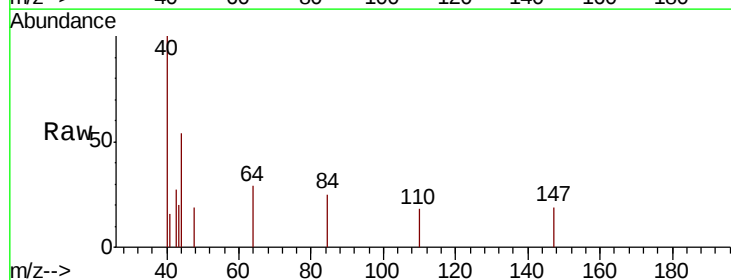
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C3-(2.25)

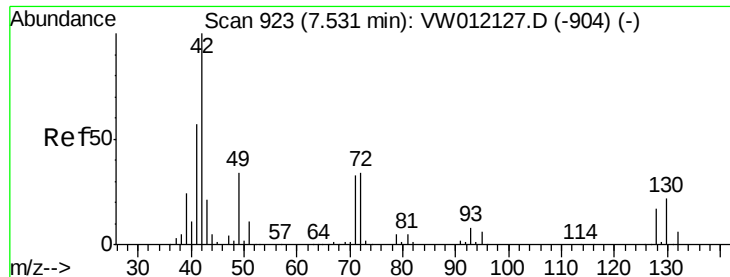
Tgt Ion: 84 Resp: 3650
Ion Ratio Lower Upper
84 100
49 92.6 117.8 176.8#
51 18.6 35.6 53.4#
86 39.2 51.2 76.8#



#25
2-Butanone
Concen: 1.011 ug/l
RT: 7.20 min Scan# 868
Delta R.T. 0.02 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

Tgt Ion: 43 Resp: 110
Ion Ratio Lower Upper
43 100
72 0.0 16.6 24.8#





#29

Tetrahydrofuran

Concen: 14.631 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

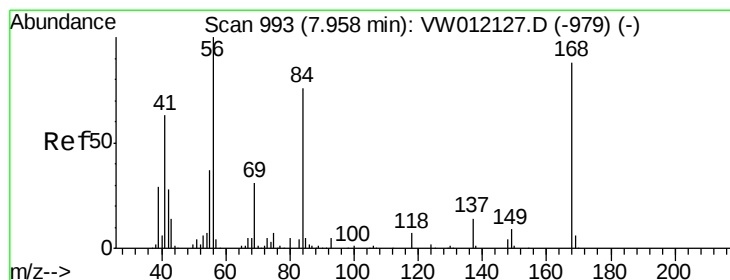
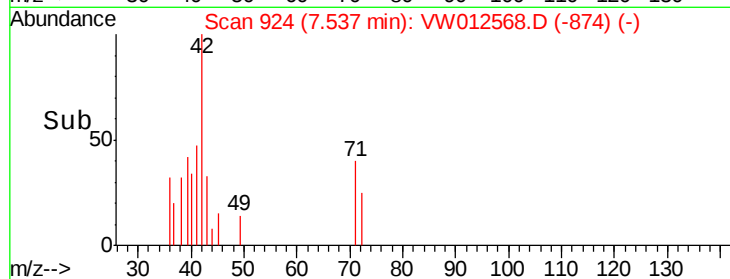
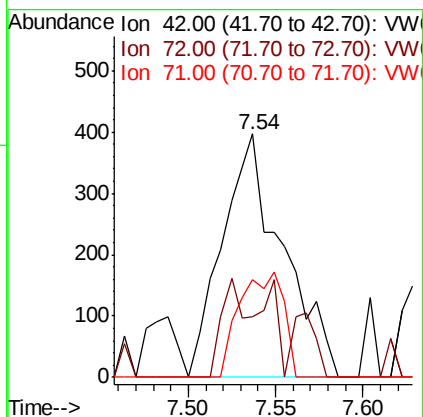
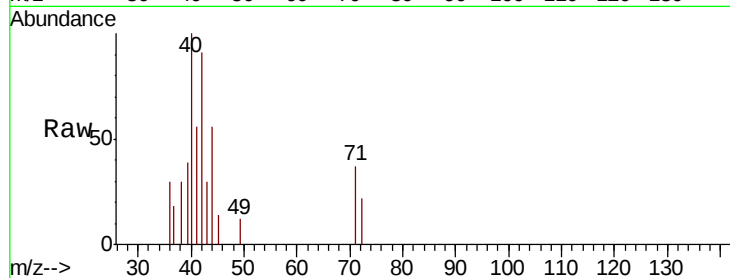
Instrument :

MSVOA_W

ClientSampleId :

T16-17-C3-(2.25)

Tgt Ion:	42	Resp:	955
Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.3	40.9#
71	31.5	25.5	38.3



#31

Cyclohexane

Concen: 1.650 ug/l

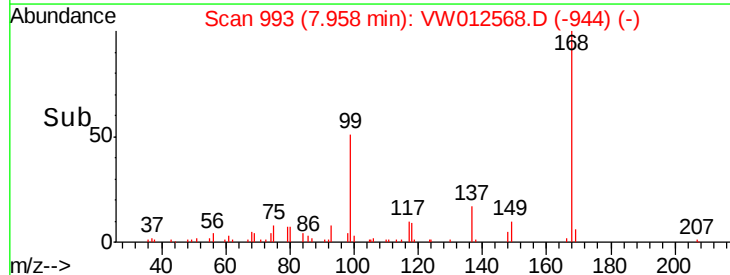
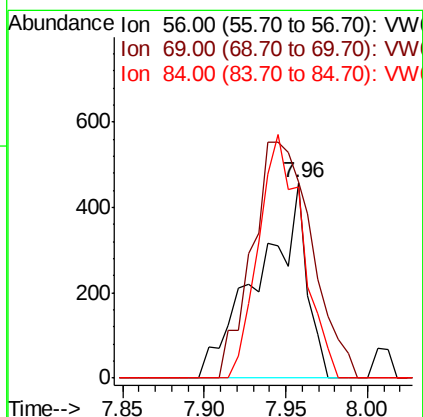
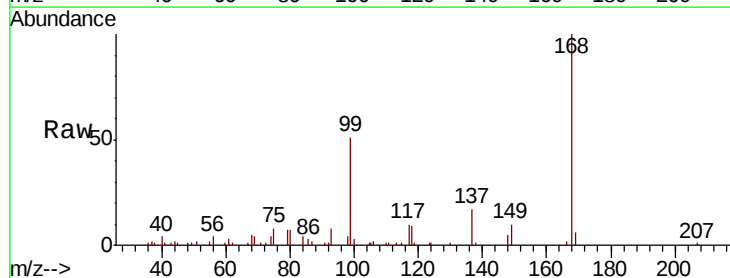
RT: 7.96 min Scan# 993

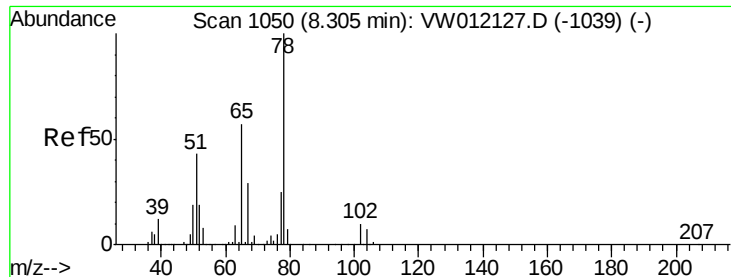
Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Tgt Ion:	56	Resp:	931
Ion	Ratio	Lower	Upper
56	100		
69	100.2	24.9	37.3#
84	97.8	60.6	90.8#





#33

1,2-Dichloroethane-d4

Concen: 57.793 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

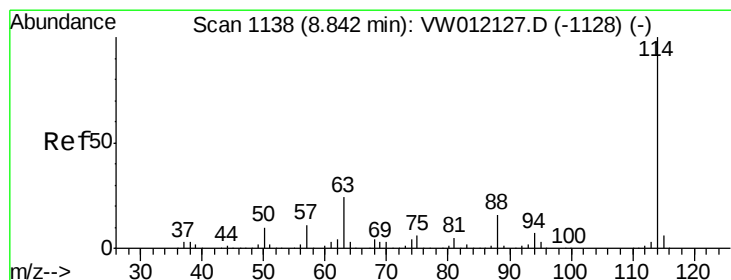
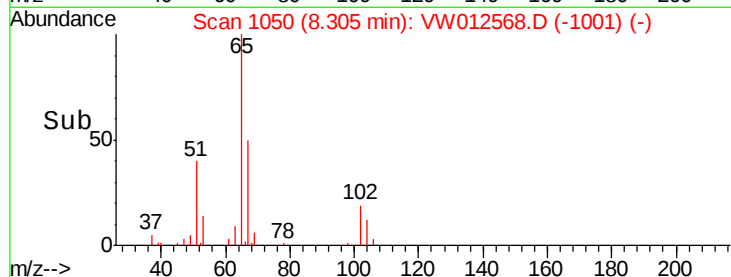
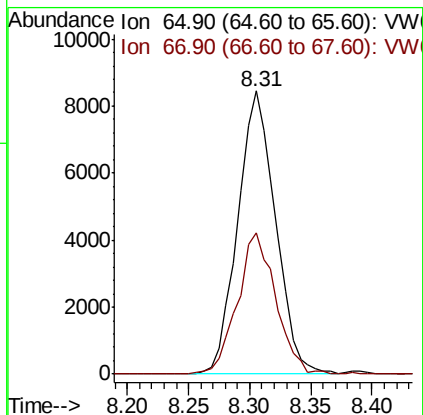
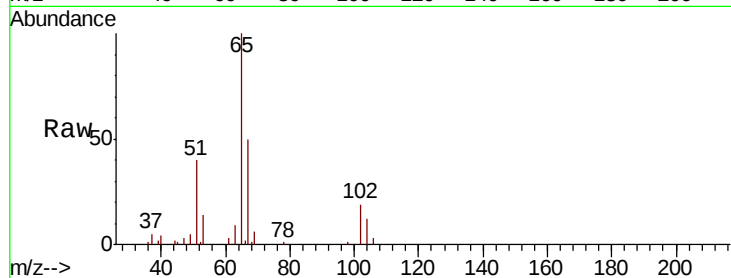
T16-17-C3-(2.25)

Tgt Ion: 65 Resp: 18101

Ion Ratio Lower Upper

65 100

67 50.5 0.0 102.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

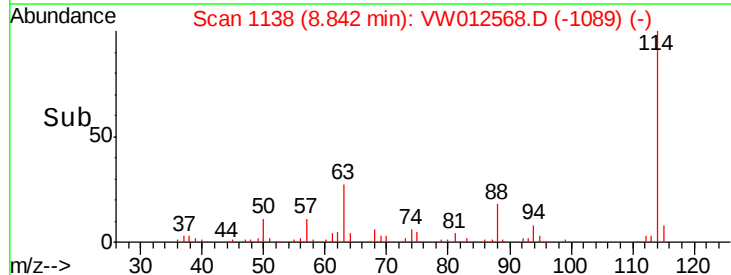
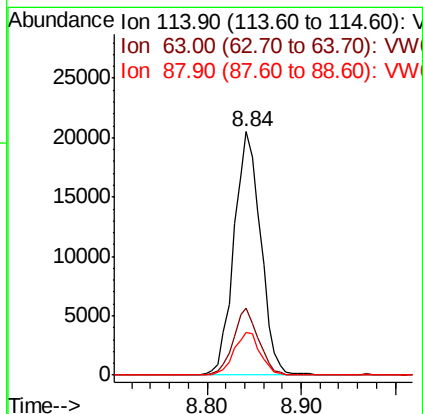
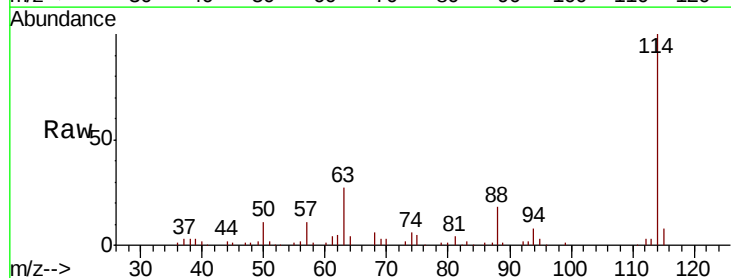
Tgt Ion: 114 Resp: 40457

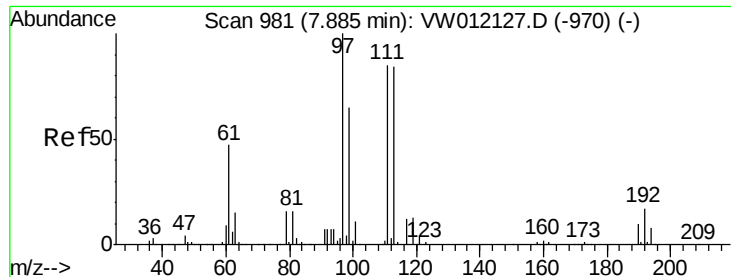
Ion Ratio Lower Upper

114 100

63 27.3 0.0 48.6

88 17.6 0.0 32.2





#35

Dibromofluoromethane

Concen: 57.406 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

T16-17-C3-(2.25)

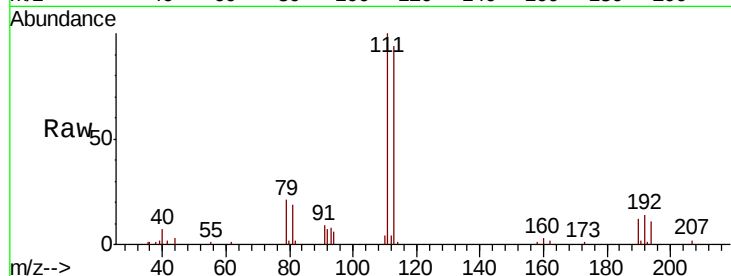
Tgt Ion:113 Resp: 13863

Ion Ratio Lower Upper

113 100

111 101.8 82.7 124.1

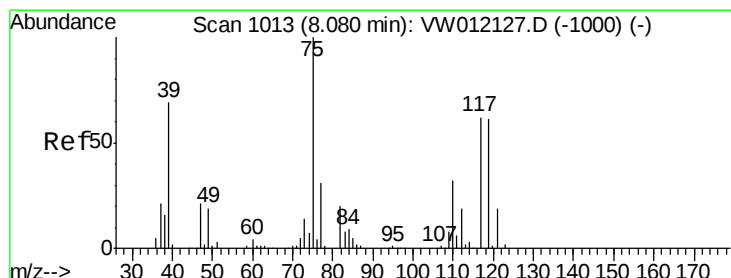
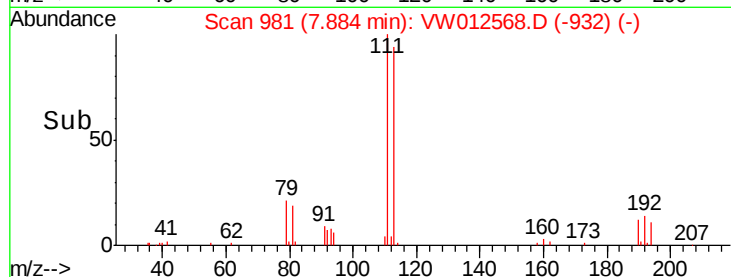
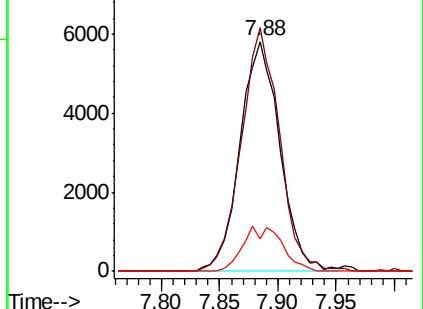
192 9.4 16.2 24.2#



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: 6.095 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

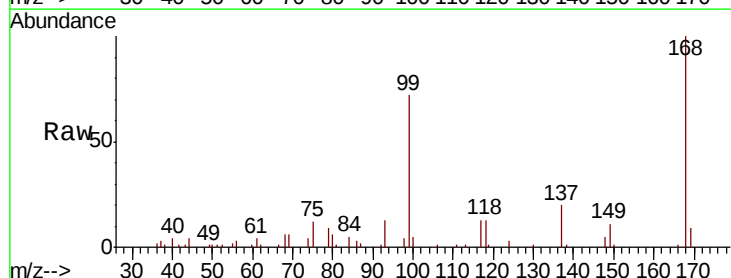
Tgt Ion: 75 Resp: 2548

Ion Ratio Lower Upper

75 100

110 8.6 15.6 46.8#

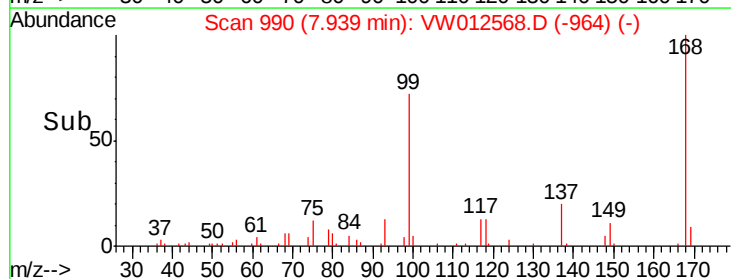
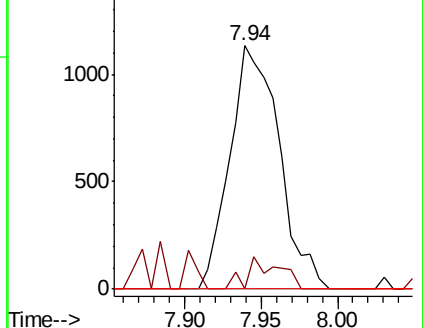
77 0.0 24.6 36.8#

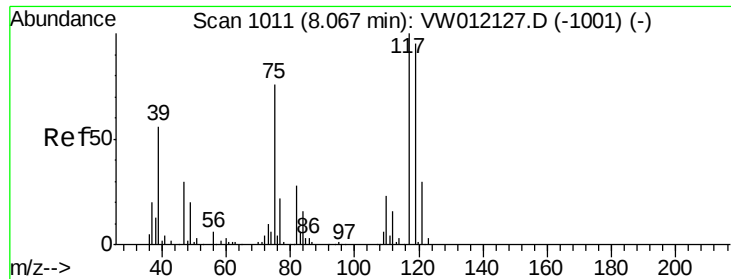


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW





#38

Carbon Tetrachloride

Concen: 9.205 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

T16-17-C3-(2.25)

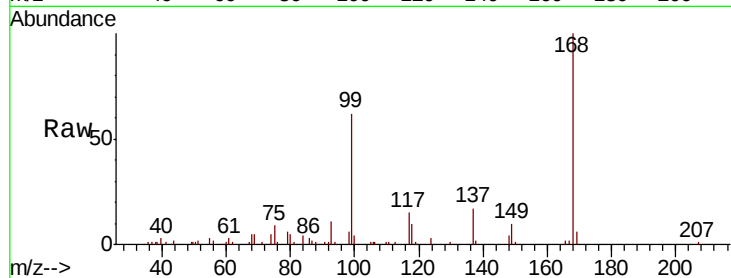
Tgt Ion:117 Resp: 3331

Ion Ratio Lower Upper

117 100

119 7.4 76.2 114.2#

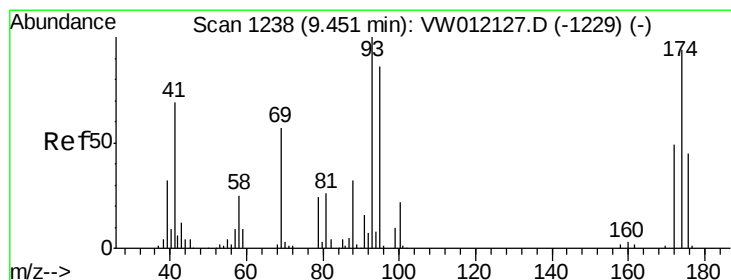
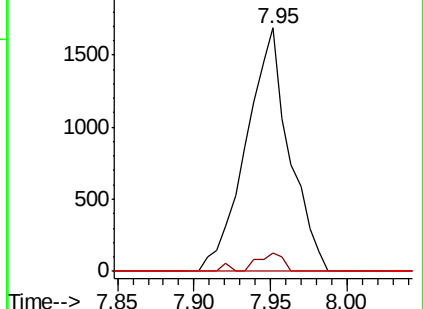
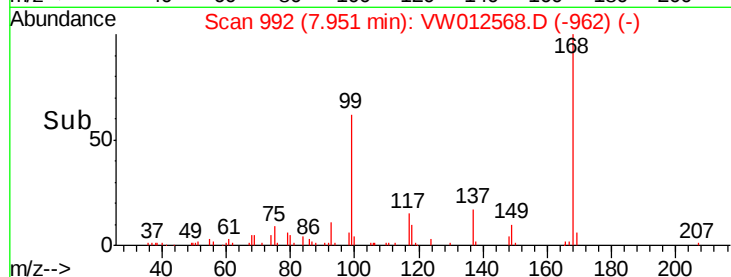
121 0.0 23.8 35.8#



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



#49

1,4-Dioxane

Concen: 19.592 ug/l

RT: 9.18 min Scan# 1193

Delta R.T. -0.27 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

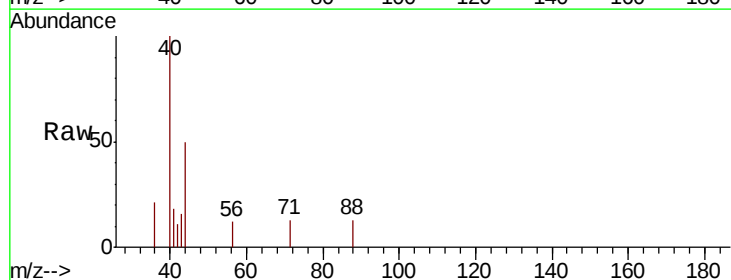
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 119.5 32.9 49.3#

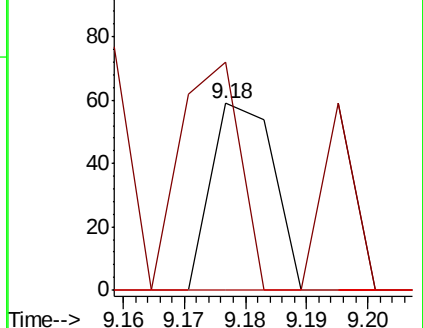
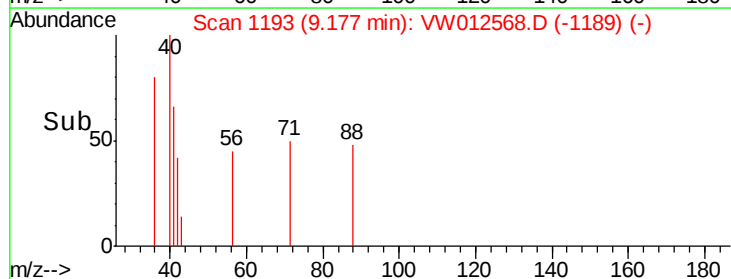
58 0.0 71.0 106.4#

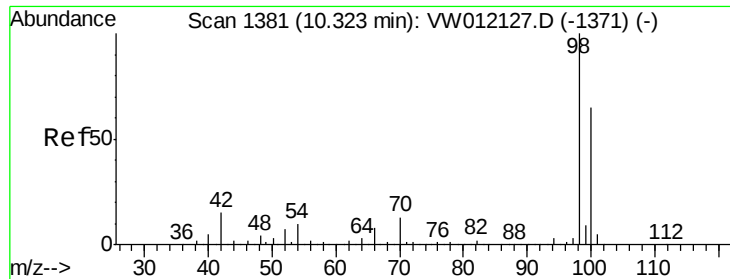


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 48.864 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

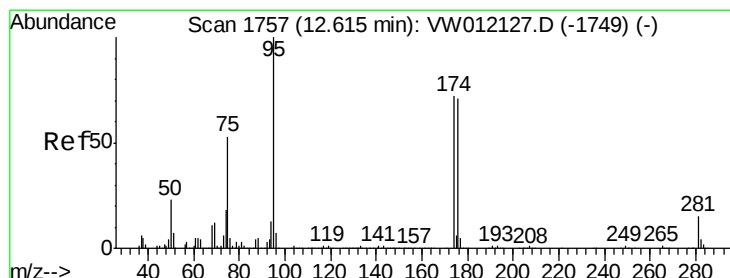
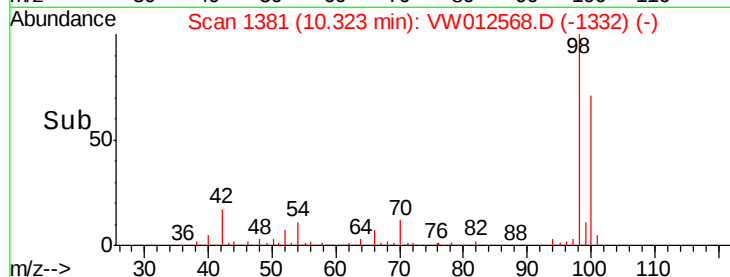
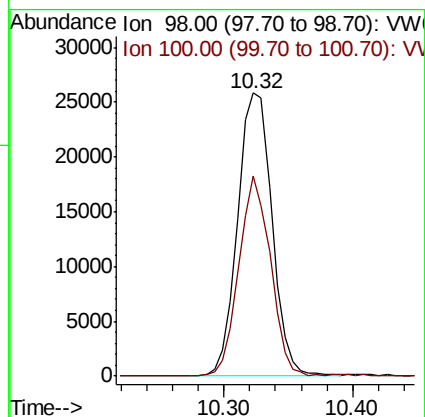
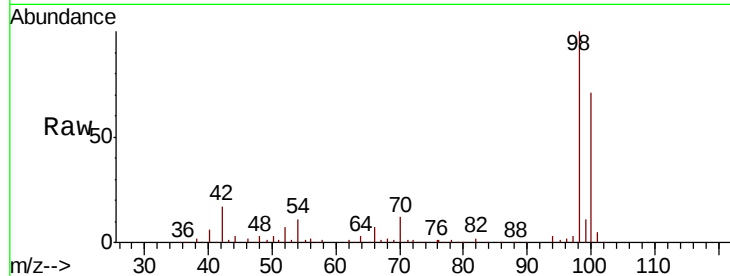
T16-17-C3-(2.25)

Tgt Ion: 98 Resp: 47846

Ion Ratio Lower Upper

98 100

100 64.9 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 35.326 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

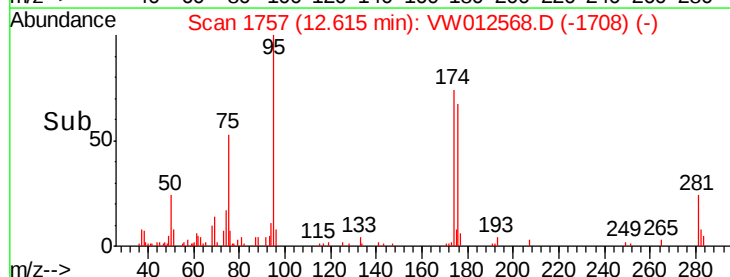
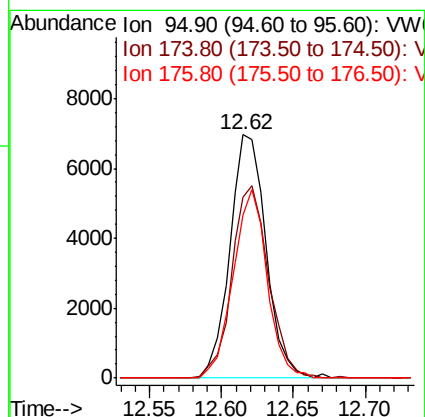
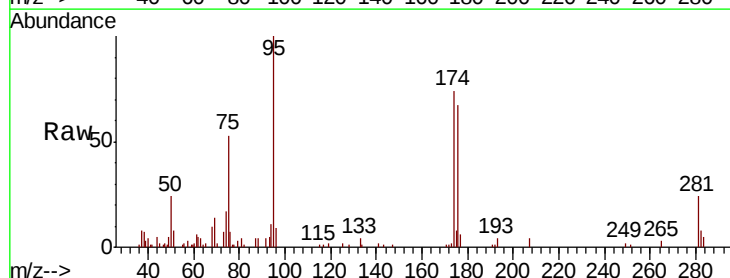
Tgt Ion: 95 Resp: 12193

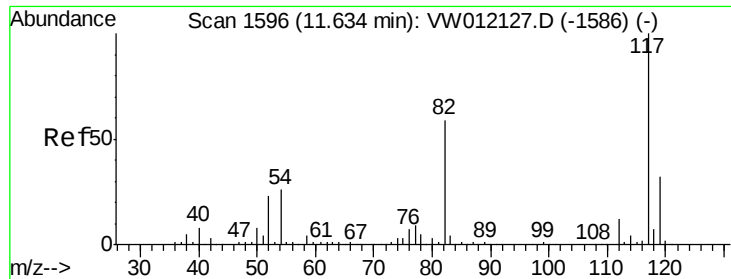
Ion Ratio Lower Upper

95 100

174 80.3 0.0 150.8

176 72.8 0.0 148.6

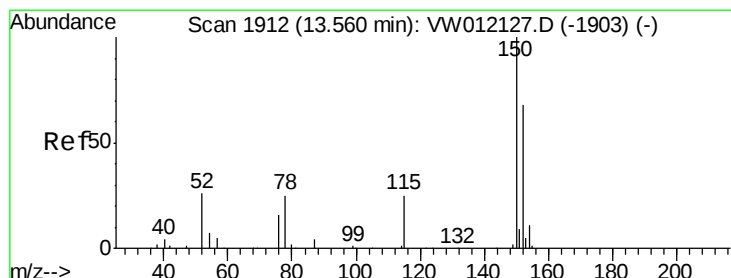
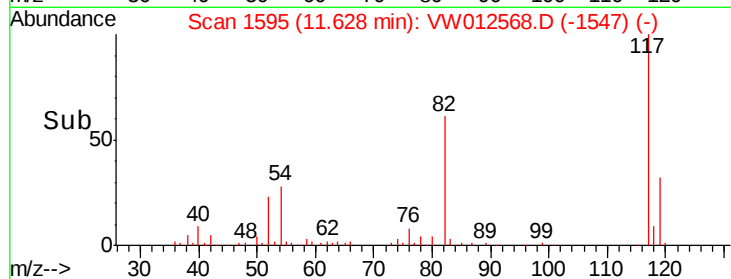
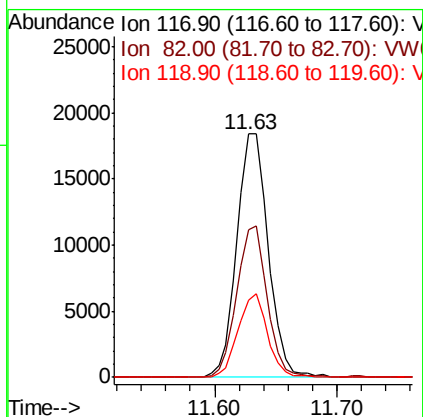
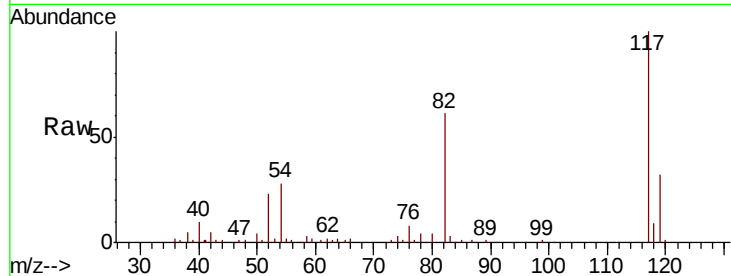




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

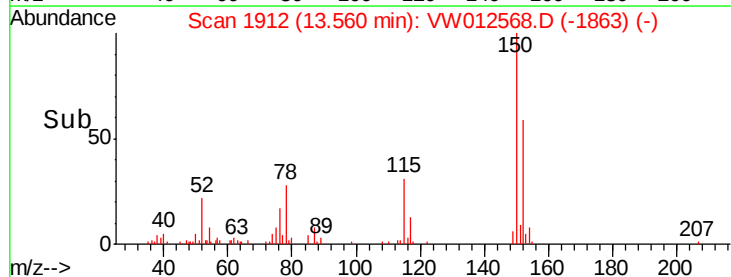
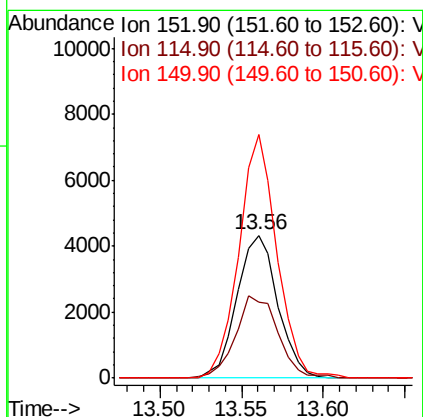
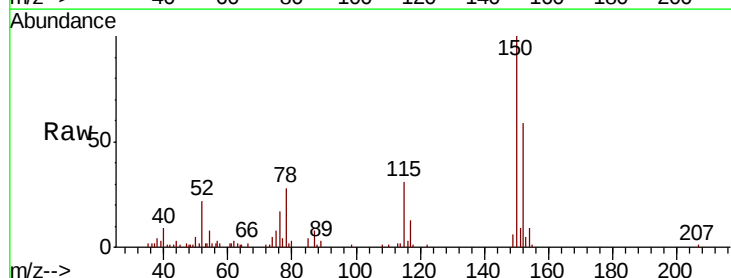
Instrument :
MSVOA_W
ClientSampleId :
T16-17-C3-(2.25)

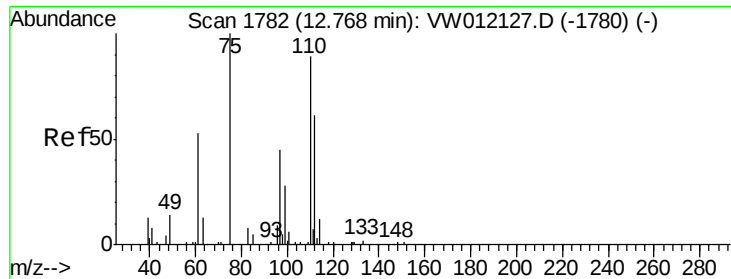
Tgt Ion:117 Resp: 32775
Ion Ratio Lower Upper
117 100
82 60.9 47.4 71.2
119 31.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW012568.D
Acq: 04 Sep 2019 01:49

Tgt Ion:152 Resp: 7532
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.3
150 158.7 0.0 345.8

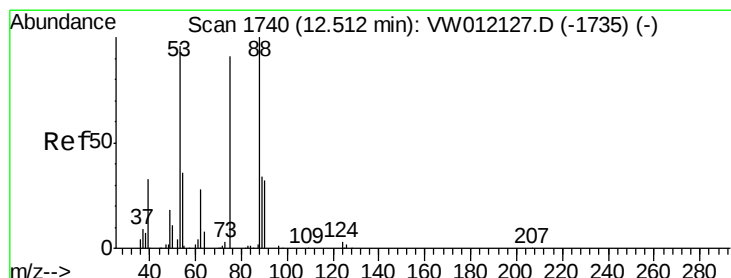
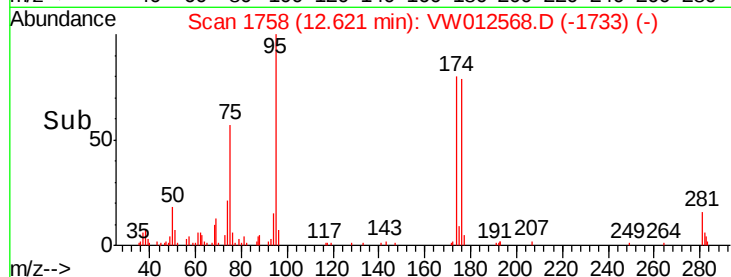
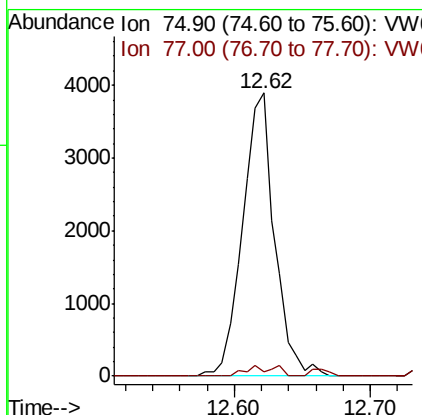
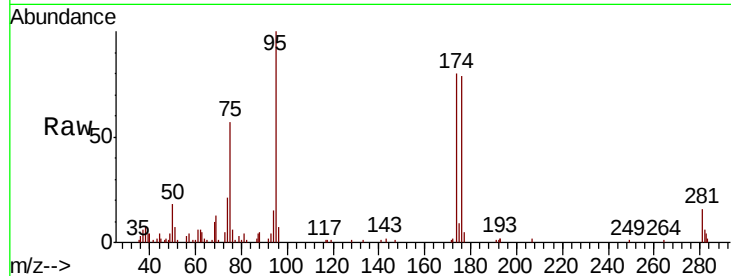




#76
 1,2,3-Trichloropropane
 Concen: 87.273 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW012568.D
 Acq: 04 Sep 2019 01:49

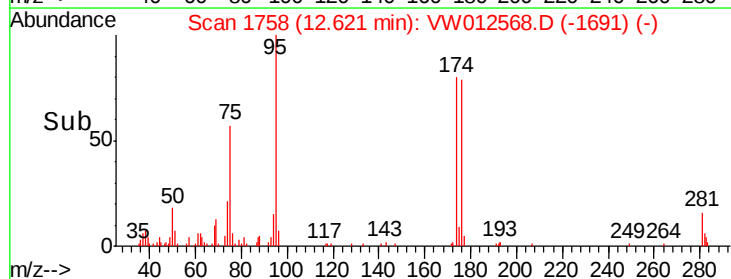
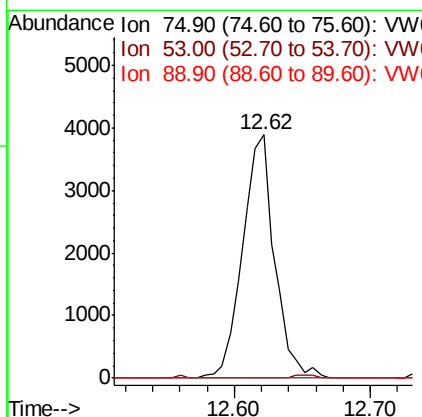
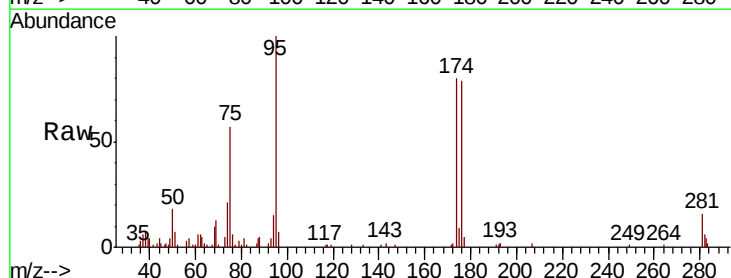
Instrument :
 MSVOA_W
 ClientSampleId :
 T16-17-C3-(2.25)

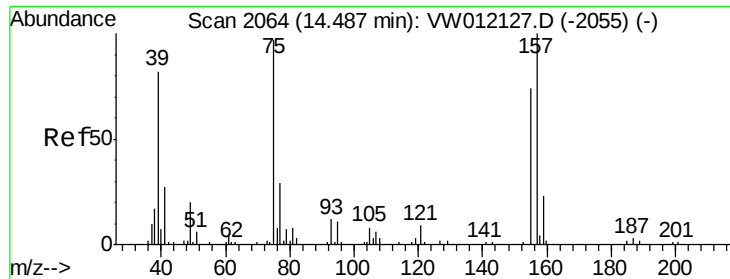
Tgt Ion: 75 Resp: 6402
 Ion Ratio Lower Upper
 75 100
 77 3.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 191.348 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW012568.D
 Acq: 04 Sep 2019 01:49

Tgt Ion: 75 Resp: 6402
 Ion Ratio Lower Upper
 75 100
 53 0.0 89.4 134.0#
 89 0.0 34.5 51.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.752 ug/l

RT: 14.52 min Scan# 2070

Delta R.T. 0.04 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

Instrument :

MSVOA_W

ClientSampleId :

T16-17-C3-(2.25)

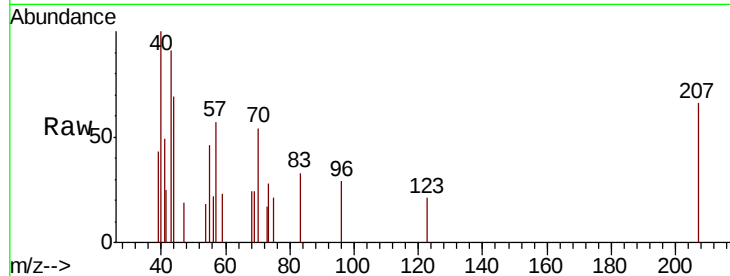
Tgt Ion: 75 Resp: 48

Ion Ratio Lower Upper

75 100

155 0.0 37.5 112.3#

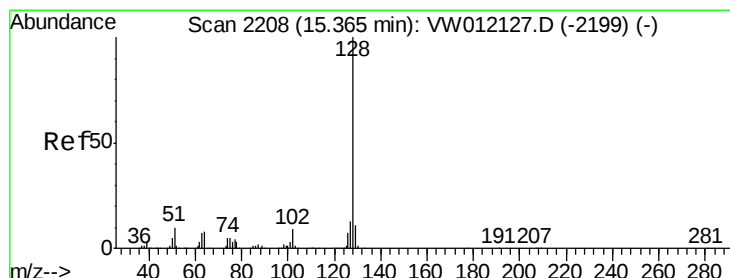
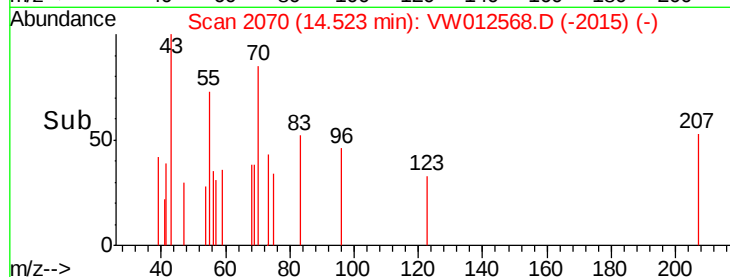
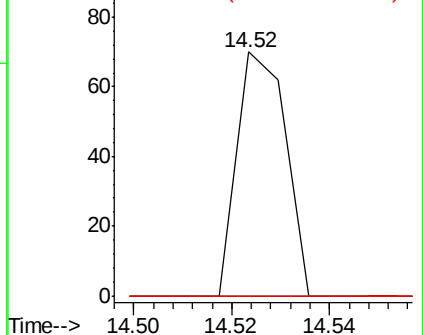
157 0.0 50.5 151.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 4.601 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW012568.D

Acq: 04 Sep 2019 01:49

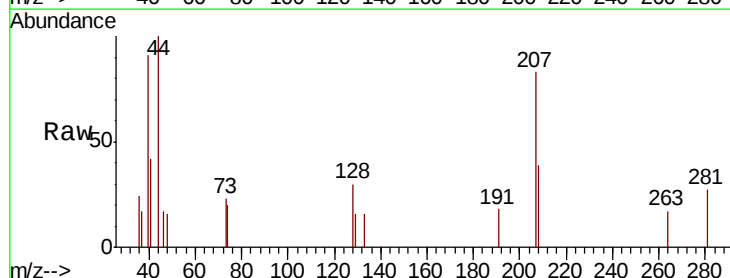
Tgt Ion: 128 Resp: 87

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 58.6 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

