

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW072719\
 Data File : VW011544.D
 Acq On : 27 Jul 2019 03:28
 Operator : SY/VA
 Sample : K3990-10
 Misc : 5.05G/5.0ML/MSVOA W/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7

Quant Time: Jul 27 05:37:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:23:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	271102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	453125	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	388621	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	151049	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	176641	56.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.48%	
35) Dibromofluoromethane	7.88	113	136179	53.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.14%	
50) Toluene-d8	10.32	98	569110	54.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.36%	
62) 4-Bromofluorobenzene	12.62	95	179777	48.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.90%	

Target Compounds

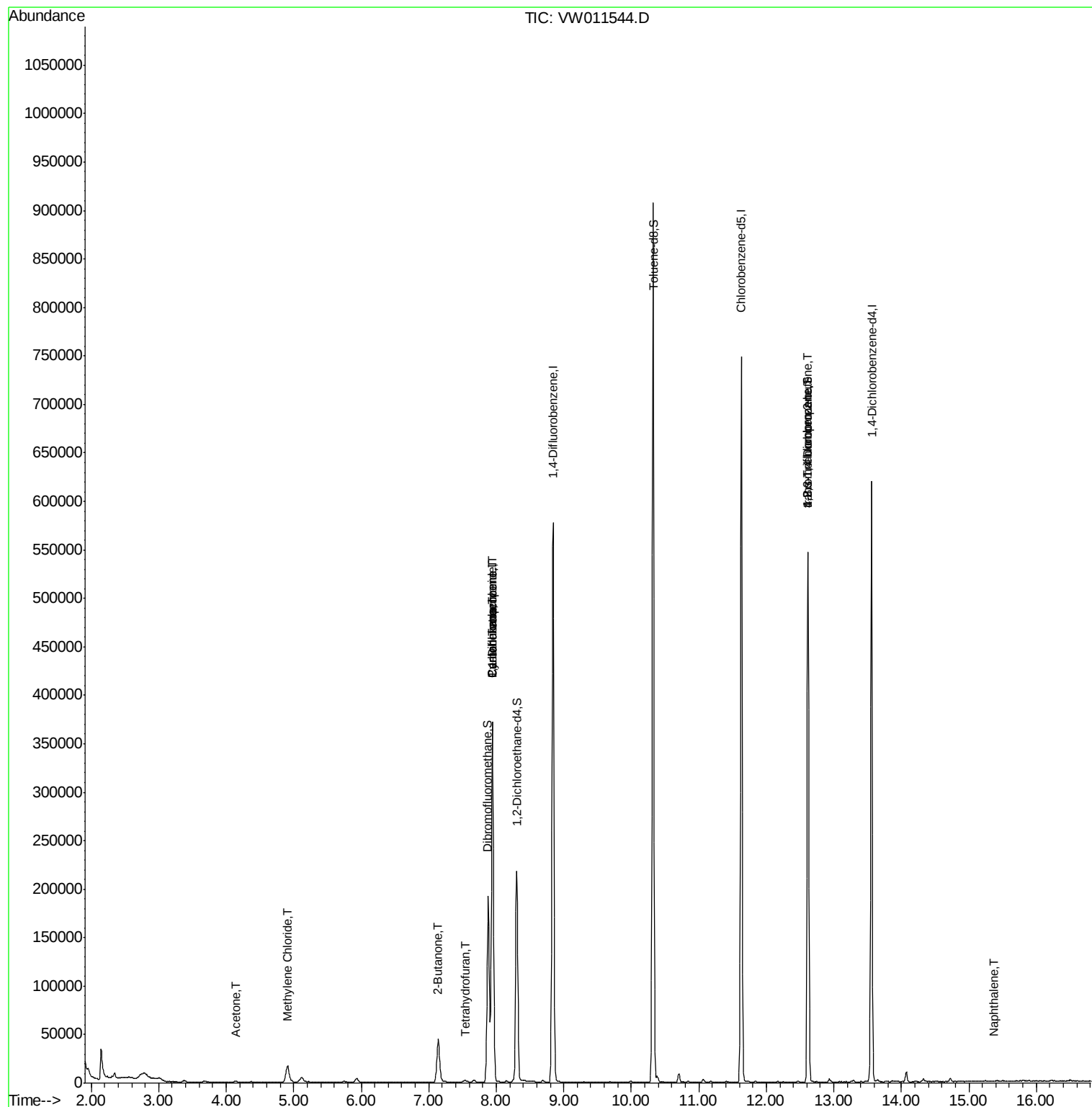
					Qvalue	
11) Tert butyl alcohol	5.20	59	221	Below Cal	#	20
16) Acetone	4.14	43	2413	2.437	ug/l	90
20) Methylene Chloride	4.90	84	12107	3.545	ug/l	94
25) 2-Butanone	7.14	43	2739	2.114	ug/l	99
29) Tetrahydrofuran	7.54	42	1873	2.529	ug/l	97
31) Cyclohexane	7.94	56	6410	1.101	ug/l	# 1
36) 1,1-Dichloropropene	7.95	75	23870	5.066	ug/l	# 52
38) Carbon Tetrachloride	7.95	117	26860	6.659	ug/l	# 16
76) 1,2,3-Trichloropropane	12.62	75	95700	59.877	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.62	75	95700	137.996	ug/l	# 6
95) Naphthalene	15.36	128	277	2.110	ug/l	# 69

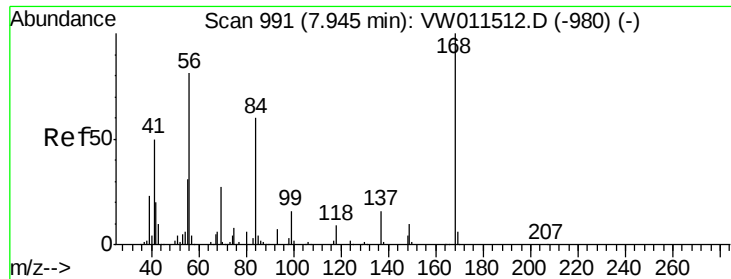
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 05:37:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W072719S.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:23:30 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: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampled :

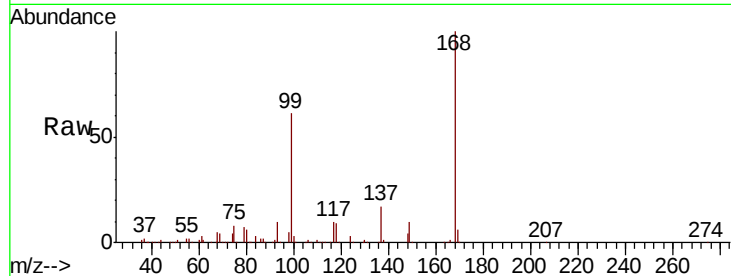
TP-7

Tot Ion:168 Resp: 271102

Ion Ratio Lower Upper

168 100

99 60.9 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

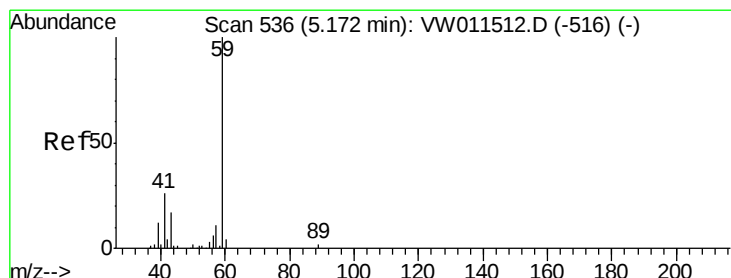
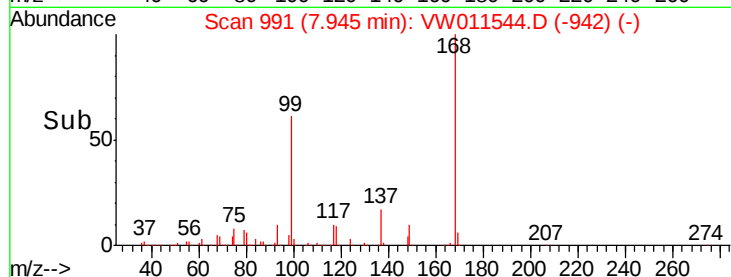
100000

50000

0

Time-->

7.90 8.00



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.20 min Scan# 541

Delta R.T. 0.03 min

Lab File: VW011544.D

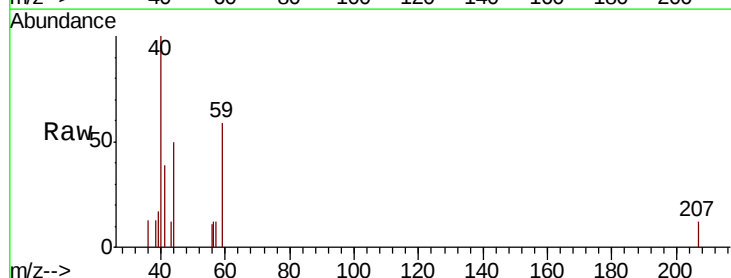
Acq: 27 Jul 2019 03:28

Tgt Ion: 59 Resp: 221

Ion Ratio Lower Upper

59 100

57 40.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.20

300

250

200

150

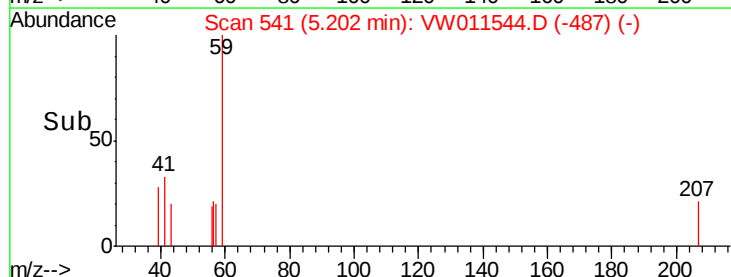
100

50

0

Time-->

5.18 5.20 5.22 5.24





#16

Acetone

Concen: 2.437 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.02 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampleId :

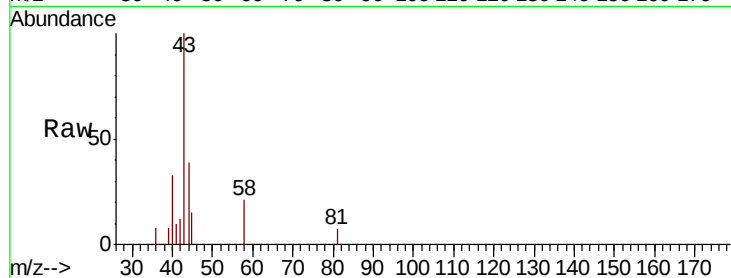
TP-7

Tot Ion: 43 Resp: 2413

Ion Ratio Lower Upper

43 100

58 22.7 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.14

800

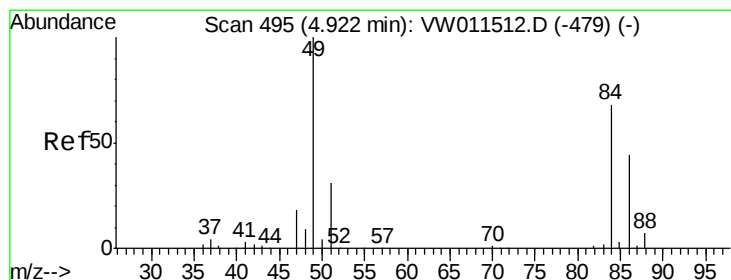
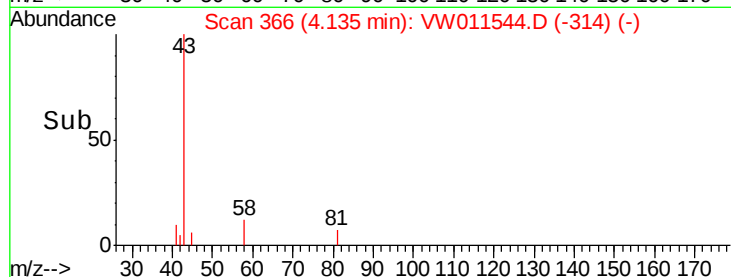
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 3.545 ug/l

RT: 4.90 min Scan# 492

Delta R.T. -0.02 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Tgt Ion: 84 Resp: 12107

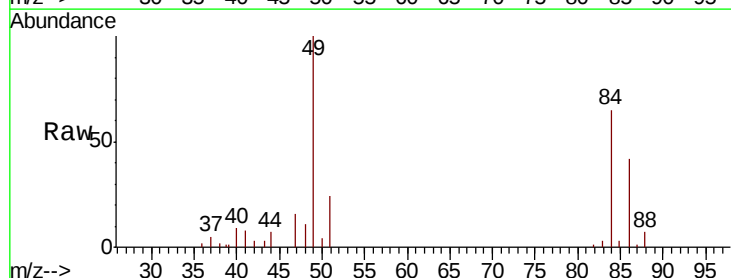
Ion Ratio Lower Upper

84 100

49 153.8 117.8 176.6

51 37.1 37.0 55.4

86 65.1 51.8 77.8



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

8000

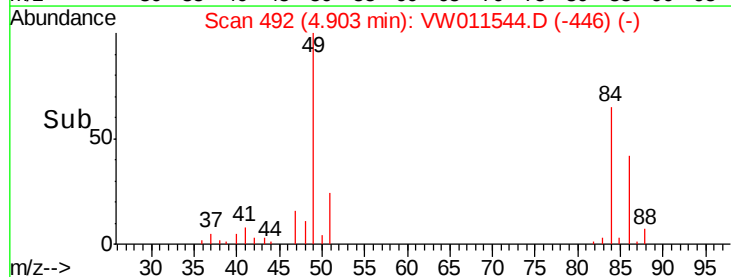
6000

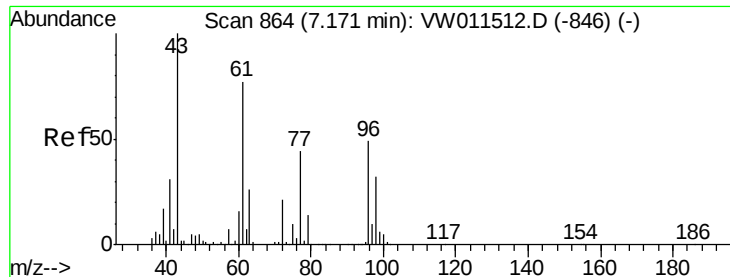
4000

2000

0

Time-->





#25

2-Butanone

Concen: 2.114 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

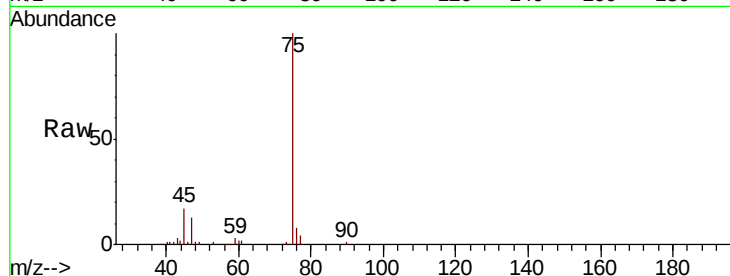
Instrument :
MSVOA_W
ClientSampled :
TP-7

Tot Ion: 43 Resp: 2739

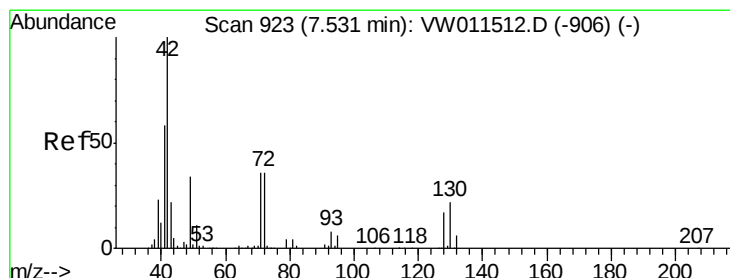
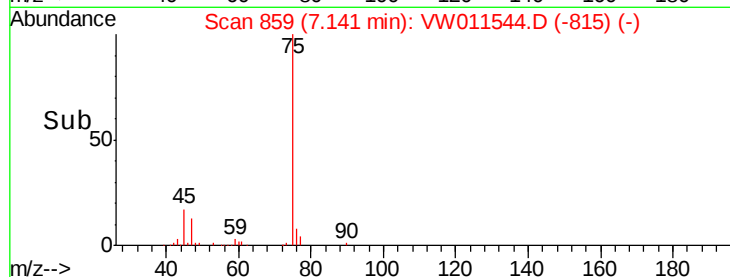
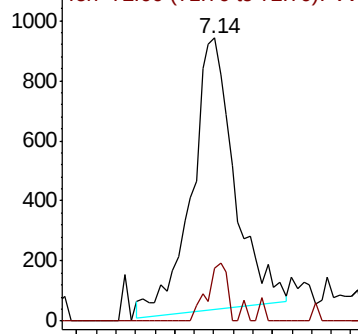
Ion Ratio Lower Upper

43 100

72 20.2 16.6 24.8



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 2.529 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

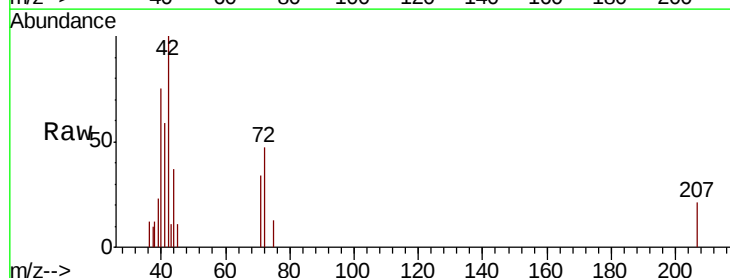
Tgt Ion: 42 Resp: 1873

Ion Ratio Lower Upper

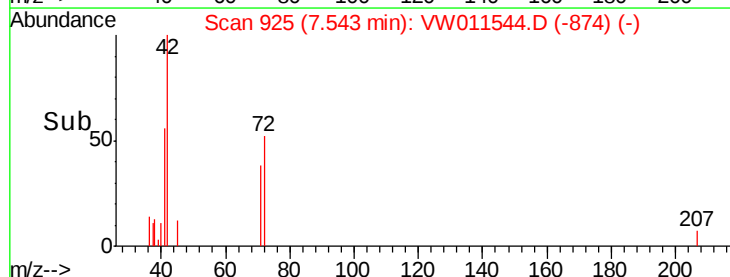
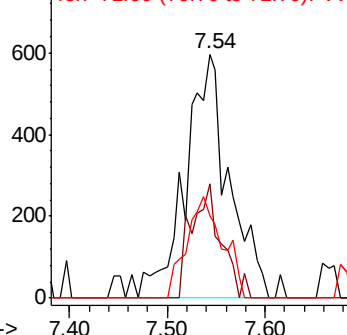
42 100

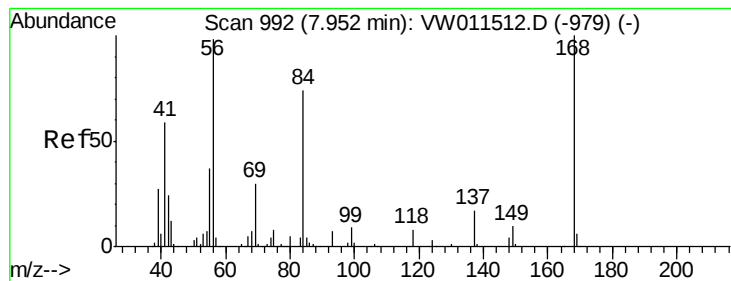
72 31.4 27.1 40.7

71 34.1 26.2 39.4



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: 1.101 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampled :

TP-7

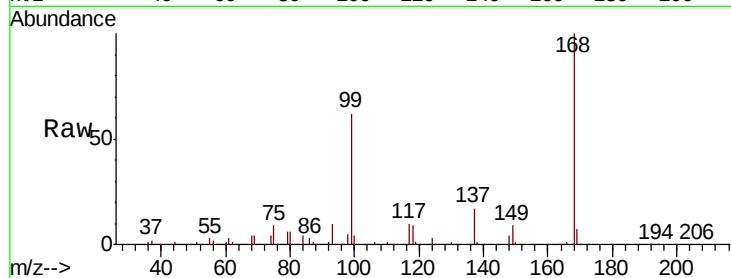
Tot Ion: 56 Resp: 6410

Ion Ratio Lower Upper

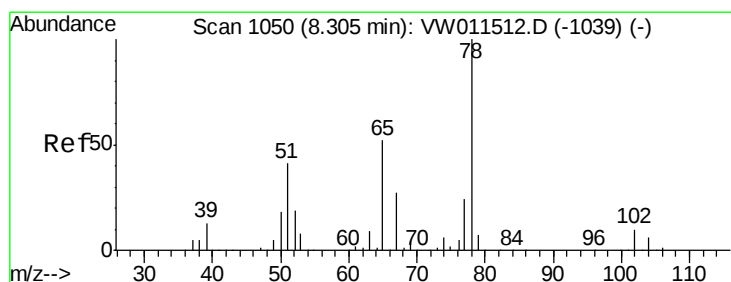
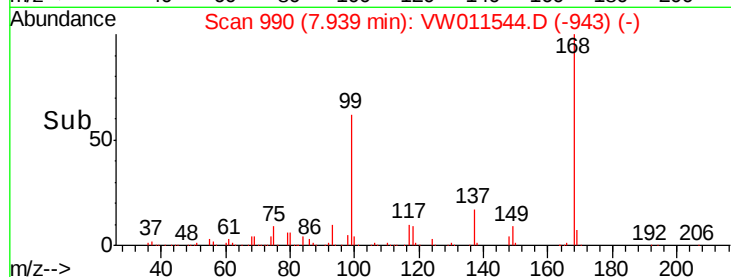
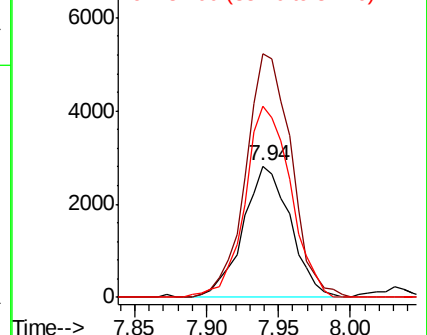
56 100

69 185.0 24.3 36.5#

84 145.3 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: 56.743 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW011544.D

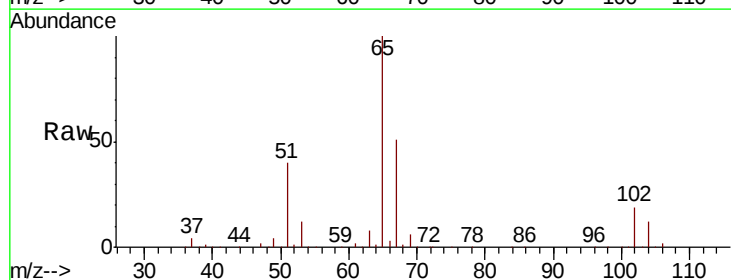
Acq: 27 Jul 2019 03:28

Tgt Ion: 65 Resp: 176641

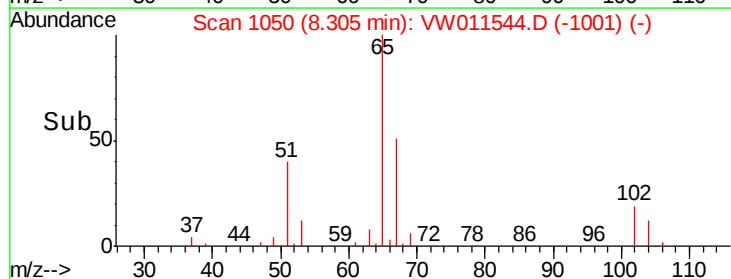
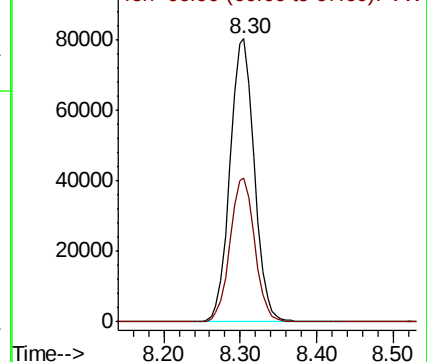
Ion Ratio Lower Upper

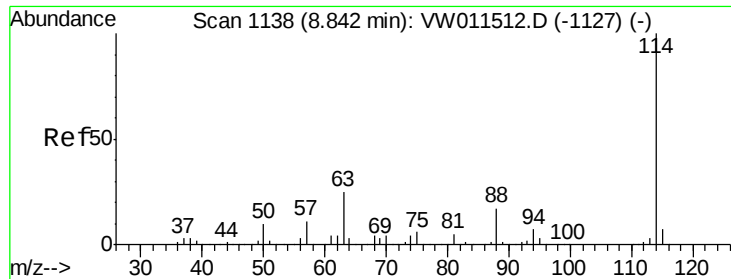
65 100

67 51.4 0.0 105.2



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

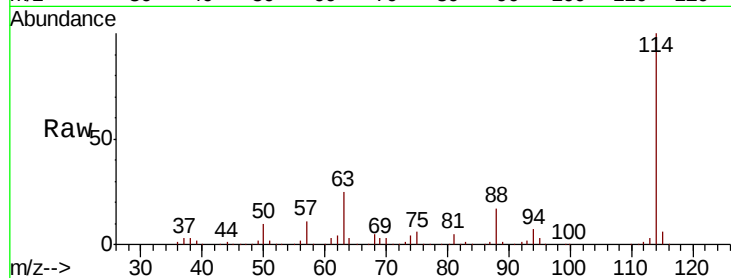




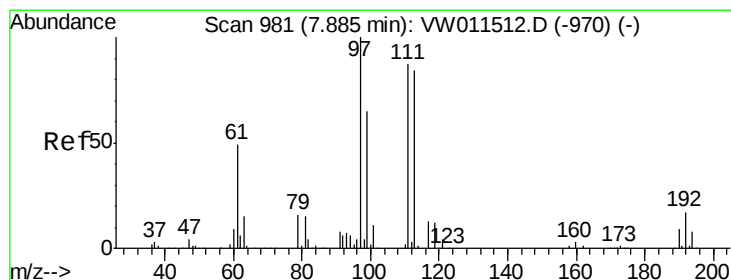
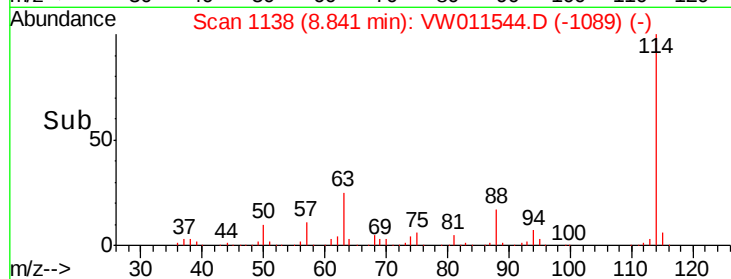
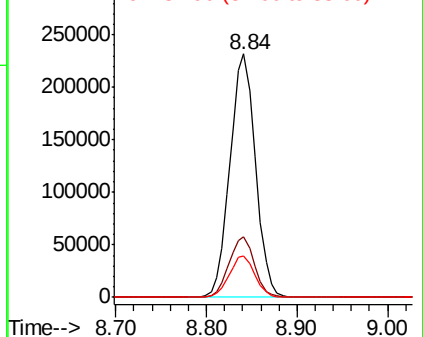
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW011544.D
 Acq: 27 Jul 2019 03:28

Instrument :
 MSVOA_W
 ClientSampleId :
 TP-7

Tot Ion:114 Resp: 453125
 Ion Ratio Lower Upper
 114 100
 63 24.6 0.0 49.2
 88 16.8 0.0 33.8

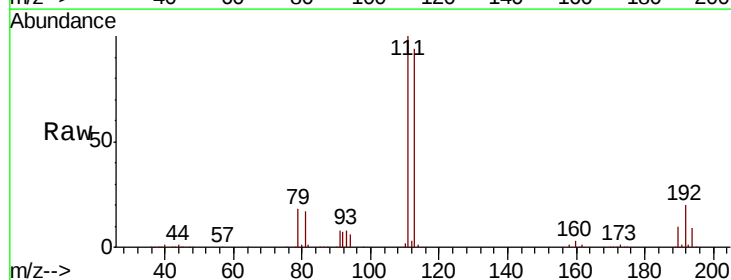


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

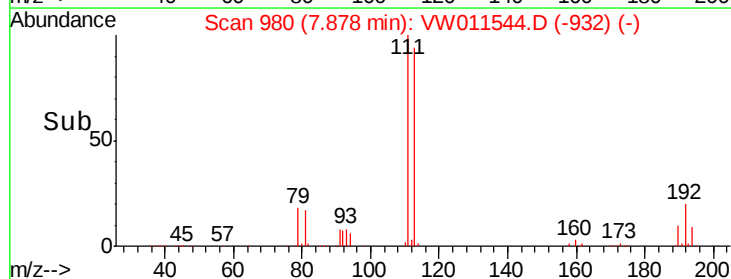
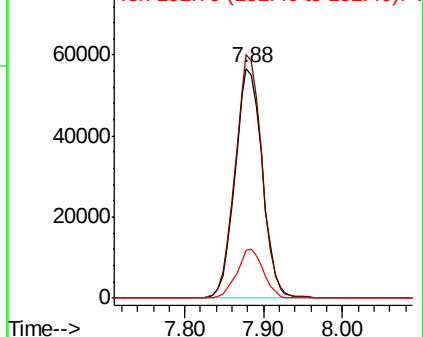


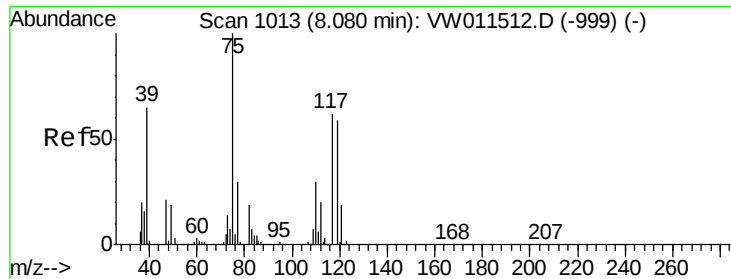
#35
 Dibromofluoromethane
 Concen: 53.569 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW011544.D
 Acq: 27 Jul 2019 03:28

Tgt Ion:113 Resp: 136179
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.7 124.1
 192 20.6 16.1 24.1



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: 5.066 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampled :

TP-7

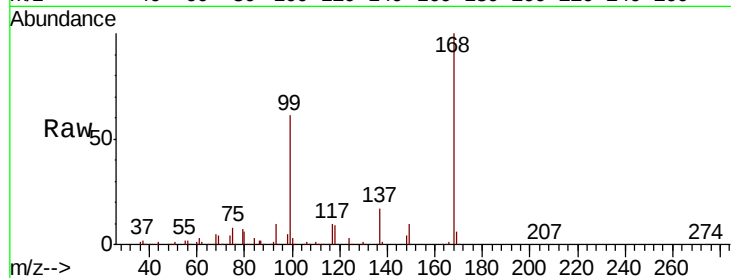
Tot Ion: 75 Resp: 23870

Ion Ratio Lower Upper

75 100

110 8.4 15.6 46.8#

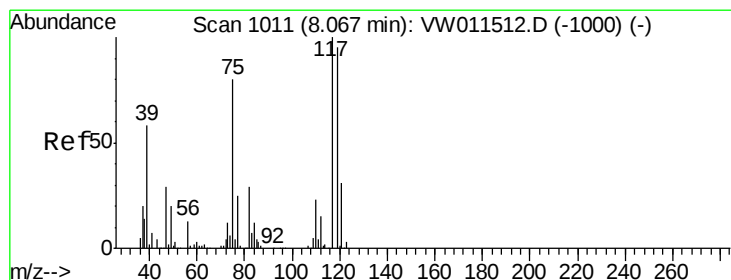
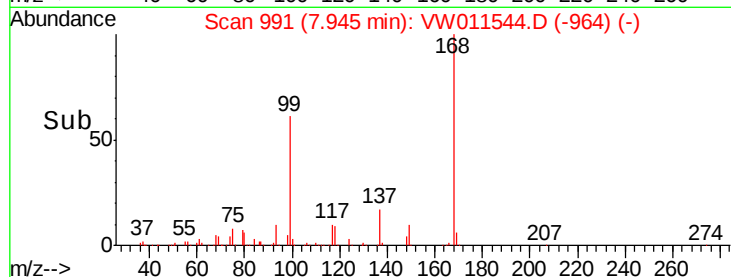
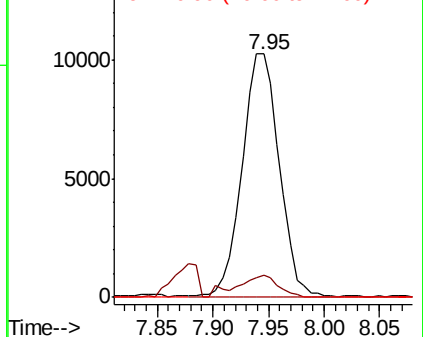
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 6.659 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

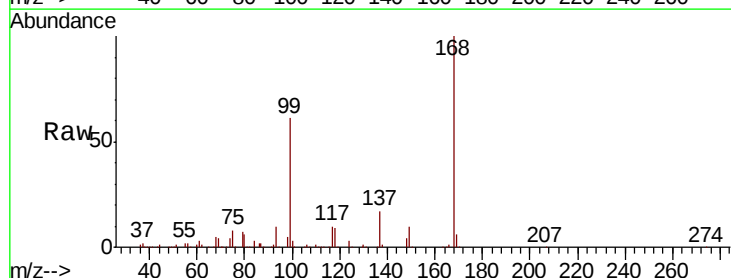
Tgt Ion: 117 Resp: 26860

Ion Ratio Lower Upper

117 100

119 4.6 75.8 113.6#

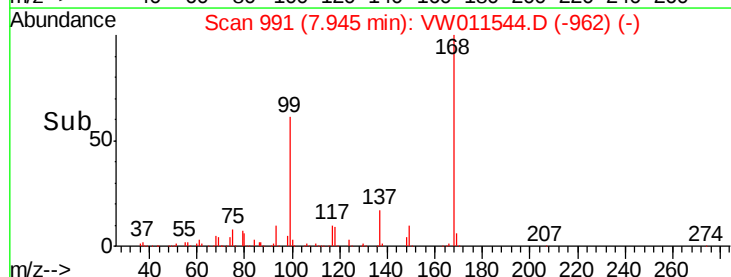
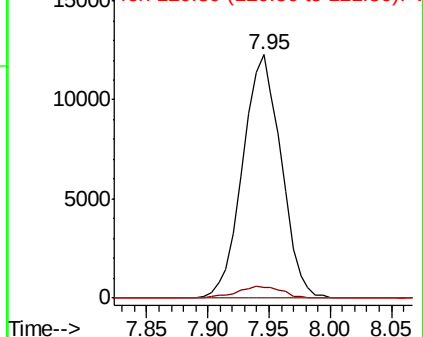
121 0.0 24.7 37.1#

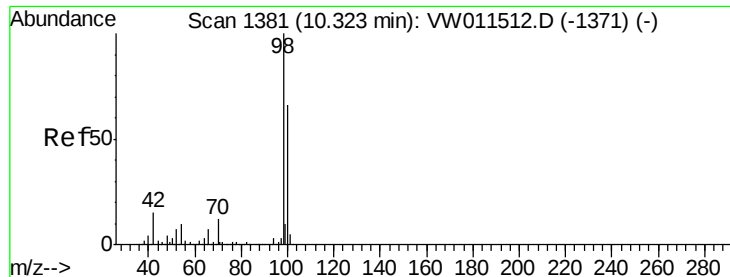


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 54.679 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampleId :

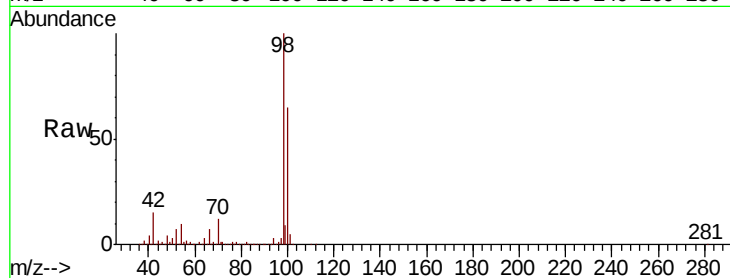
TP-7

Tot Ion: 98 Resp: 569110

Ion Ratio Lower Upper

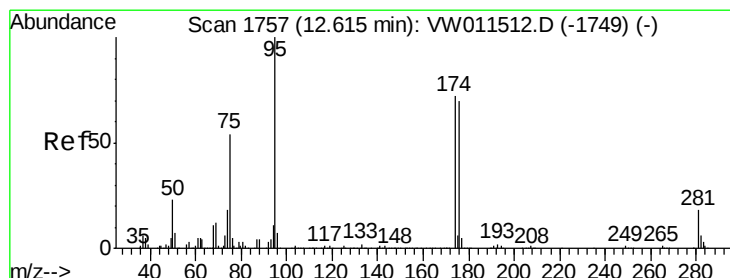
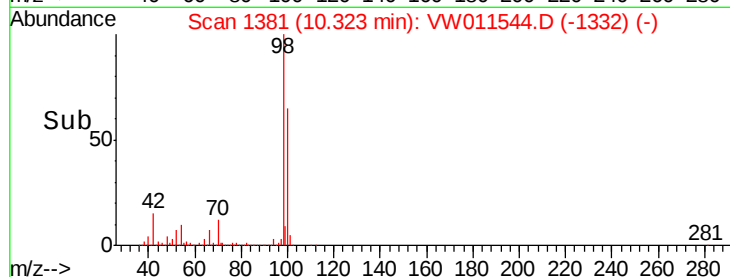
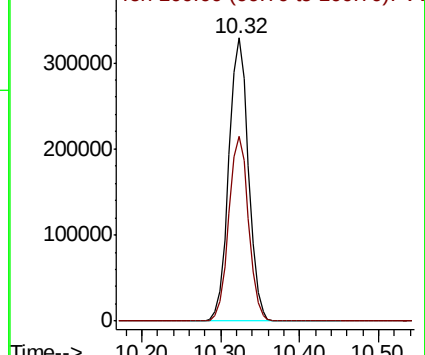
98 100

100 65.7 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 48.448 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.00 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

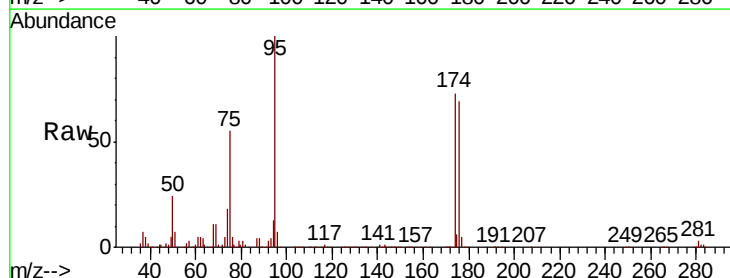
Tgt Ion: 95 Resp: 179777

Ion Ratio Lower Upper

95 100

174 76.9 0.0 150.2

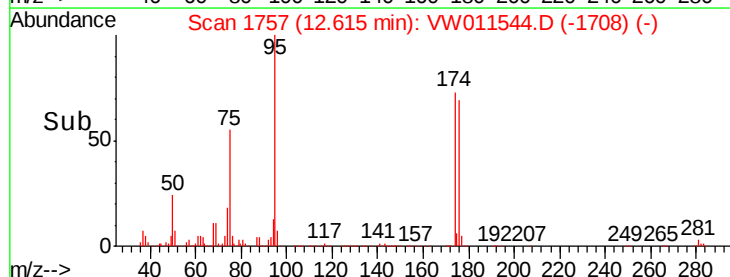
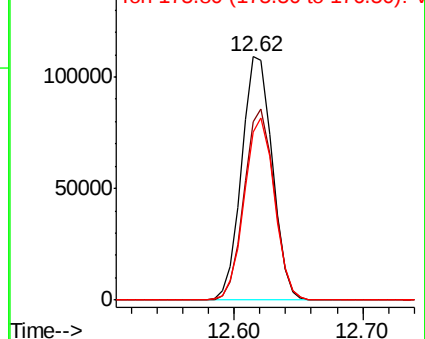
176 73.8 0.0 144.4

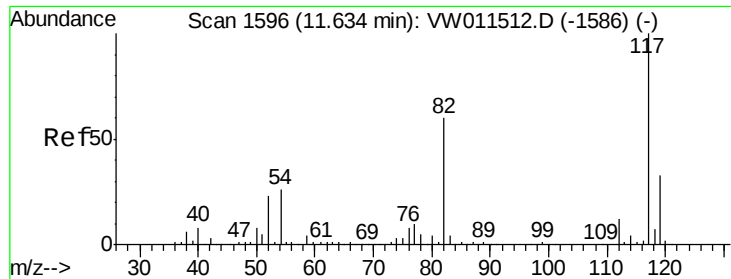


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

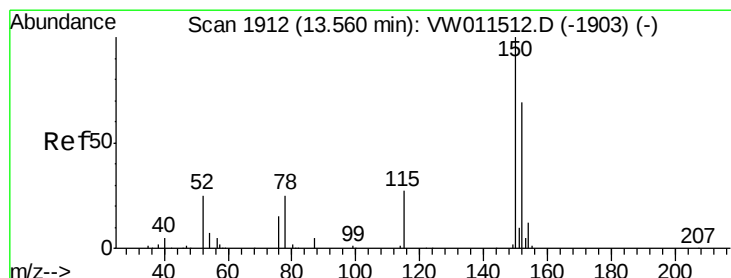
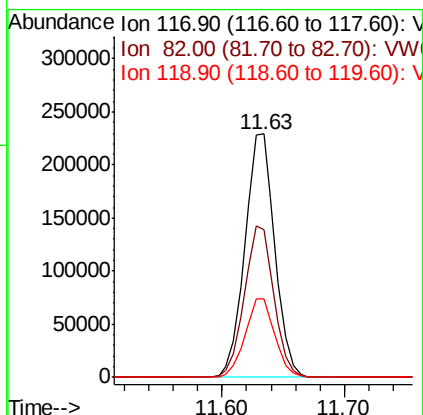
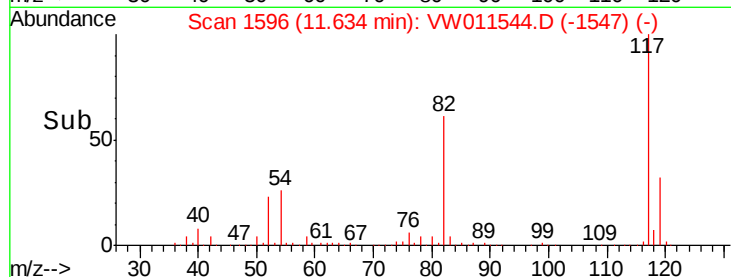
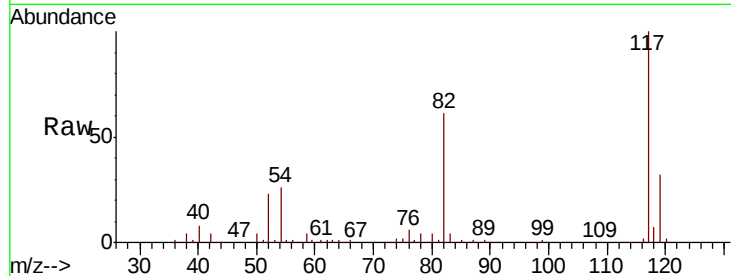




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW011544.D
Acq: 27 Jul 2019 03:28

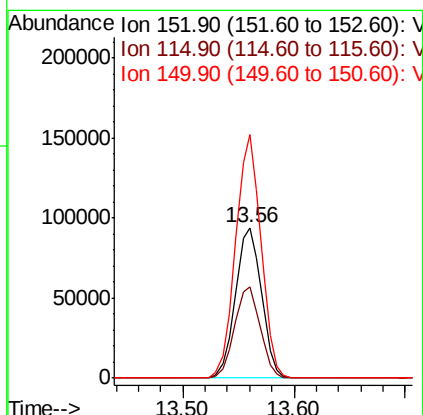
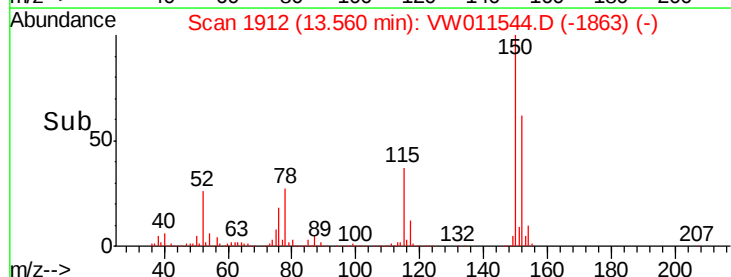
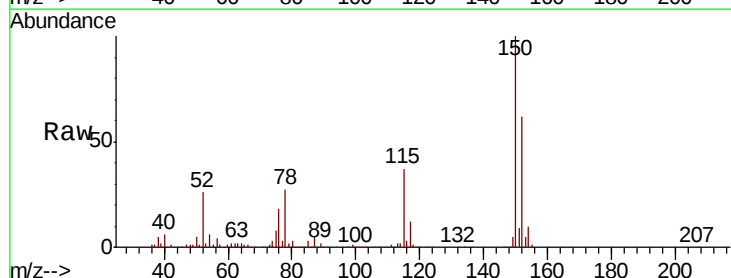
Instrument :
MSVOA_W
ClientSampleId :
TP-7

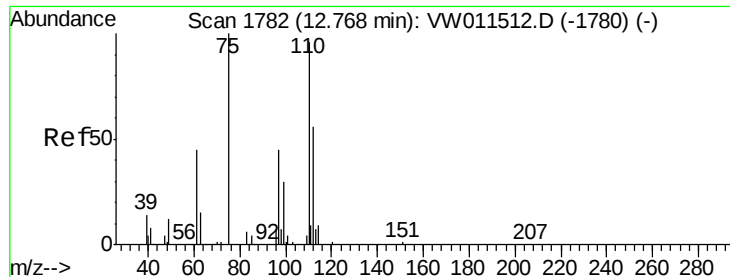
Tot Ion:117 Resp: 388621
Ion Ratio Lower Upper
117 100
82 60.8 47.9 71.9
119 32.3 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW011544.D
Acq: 27 Jul 2019 03:28

Tgt Ion:152 Resp: 151049
Ion Ratio Lower Upper
152 100
115 60.3 30.5 91.5
150 157.9 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 59.877 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampleId :

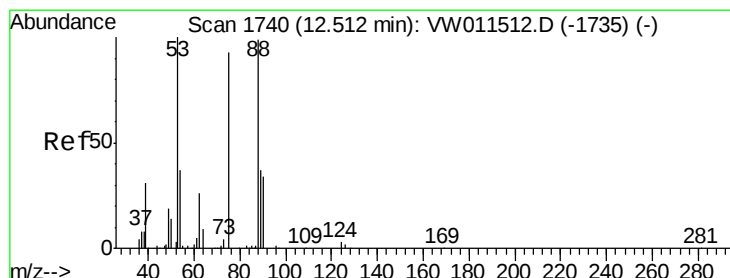
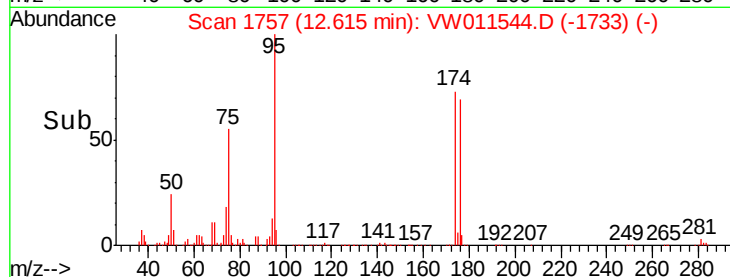
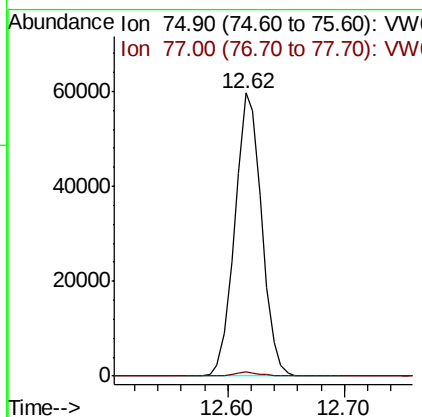
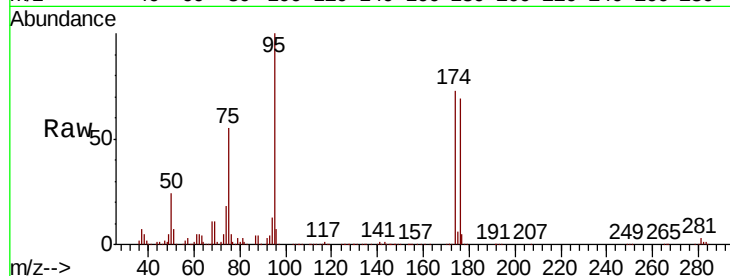
TP-7

Tot Ion: 75 Resp: 95700

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.996 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

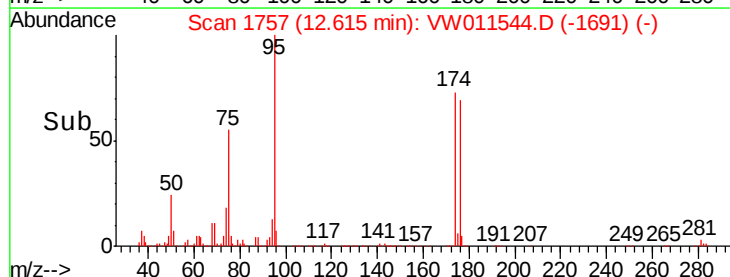
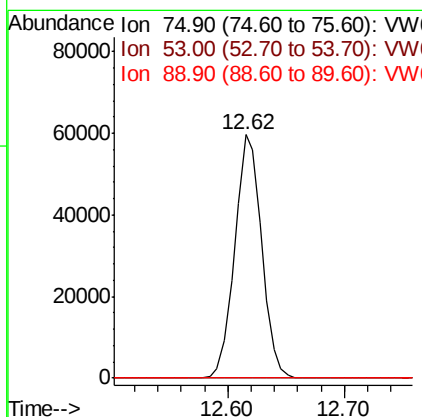
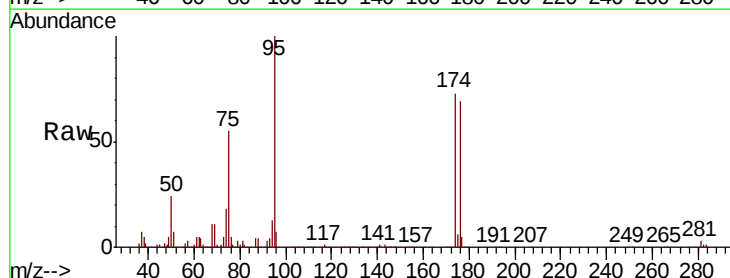
Tgt Ion: 75 Resp: 95700

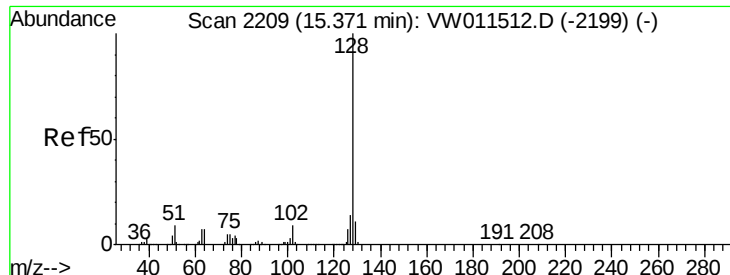
Ion Ratio Lower Upper

75 100

53 0.0 88.0 132.0#

89 0.1 35.3 52.9#





#95

Naphthalene

Concen: 2.110 ug/l

RT: 15.36 min Scan# 2207

Delta R.T. -0.01 min

Lab File: VW011544.D

Acq: 27 Jul 2019 03:28

Instrument :

MSVOA_W

ClientSampleId :

TP-7

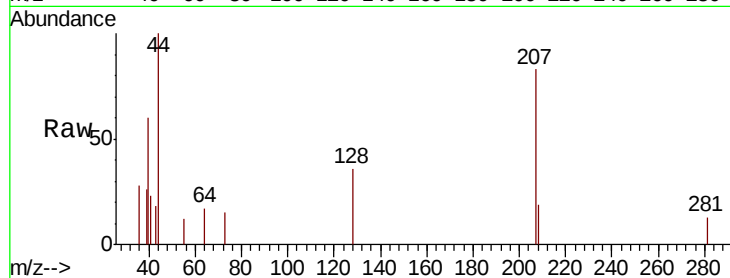
Tot Ion:128 Resp: 277

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#



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

