

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW051019\
 Data File : VW010368.D
 Acq On : 10 May 2019 20:53
 Operator : SY/VA
 Sample : K2718-11
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS006-0002-02

Quant Time: May 10 23:21:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W050919S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 03:41:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	104571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	159329	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	87582	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	10794	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	64580	58.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.18%	
35) Dibromofluoromethane	7.88	113	52585	56.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.80%	
50) Toluene-d8	10.32	98	102485	26.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.98%	
62) 4-Bromofluorobenzene	12.62	95	13892	10.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.78%	

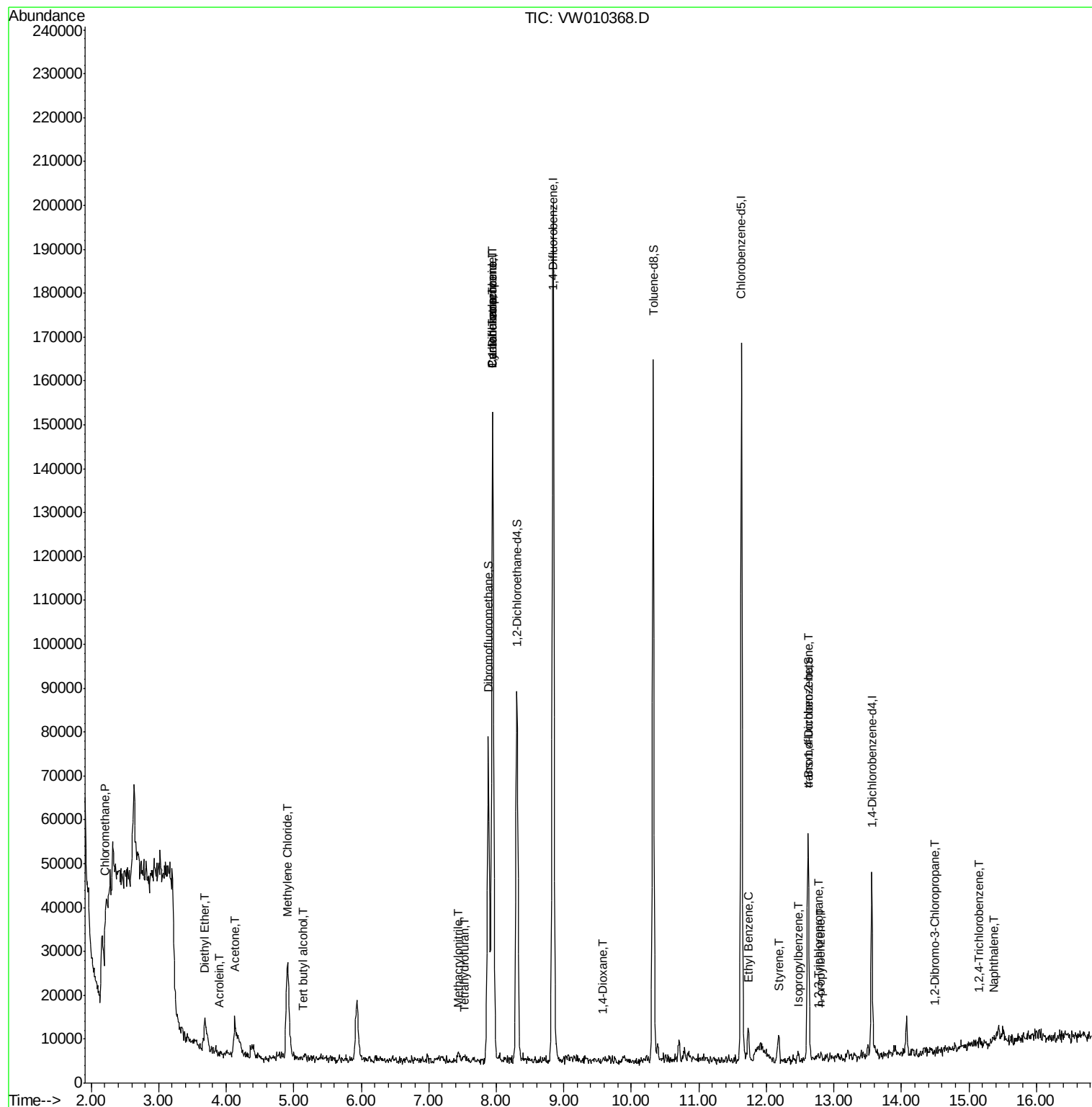
Target Compounds						Qvalue
3) Chloromethane	2.20	50	1950	1.822	ug/l #	73
8) Diethyl Ether	3.69	74	4322	7.382	ug/l	97
11) Tert butyl alcohol	5.14	59	174	2.216	ug/l #	3
13) Acrolein	3.89	56	204	1.968	ug/l #	1
16) Acetone	4.13	43	18051	62.283	ug/l	93
20) Methylene Chloride	4.91	84	15826	13.092	ug/l	92
29) Tetrahydrofuran	7.52	42	575	2.005	ug/l #	64
31) Cyclohexane	7.95	56	3573	1.569	ug/l #	46
36) 1,1-Dichloropropene	7.94	75	9963	5.767	ug/l #	48
38) Carbon Tetrachloride	7.94	117	10778	7.278	ug/l #	16
41) Methacrylonitrile	7.44	41	1858	3.602	ug/l #	54
49) 1,4-Dioxane	9.58	88	39	3.681	ug/l #	1
67) Ethyl Benzene	11.73	91	4466	1.339	ug/l	94
70) Styrene	12.19	104	2900	1.485	ug/l	86
73) Isopropylbenzene	12.47	105	1284	1.632	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	480	3.814	ug/l #	100
78) n-propylbenzene	12.80	91	1116	1.148	ug/l #	54
81) trans-1,4-Dichloro-2-buten	12.62	75	7238	129.883	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.49	75	251	8.040	ug/l #	7
93) 1,2,4-Trichlorobenzene	15.15	180	315	1.470	ug/l	92
95) Naphthalene	15.36	128	1368	6.188	ug/l #	69

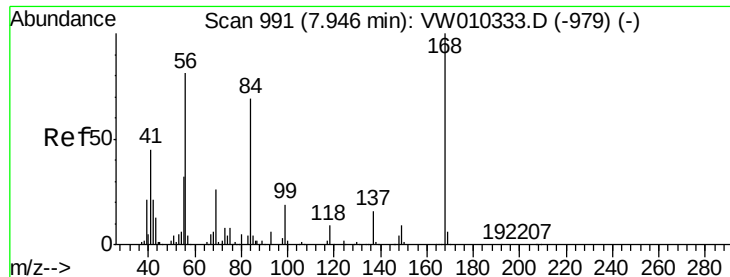
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 10 03:41:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

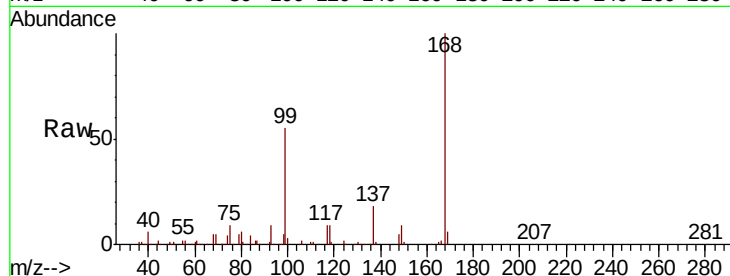
P026-SS006-0002-02

Tgt Ion:168 Resp: 104571

Ion Ratio Lower Upper

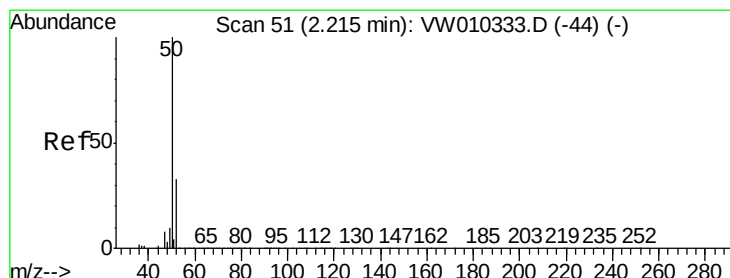
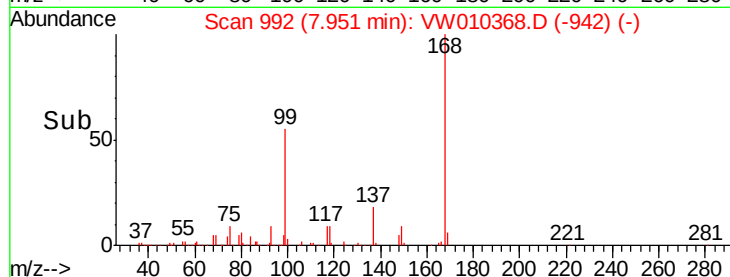
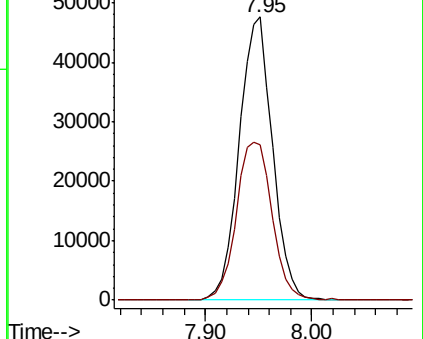
168 100

99 55.1 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.822 ug/l

RT: 2.20 min Scan# 49

Delta R.T. -0.01 min

Lab File: VW010368.D

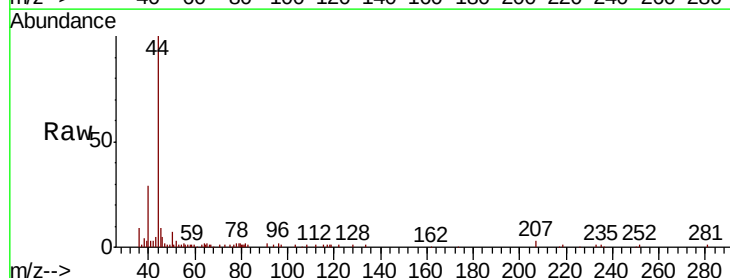
Acq: 10 May 2019 20:53

Tgt Ion: 50 Resp: 1950

Ion Ratio Lower Upper

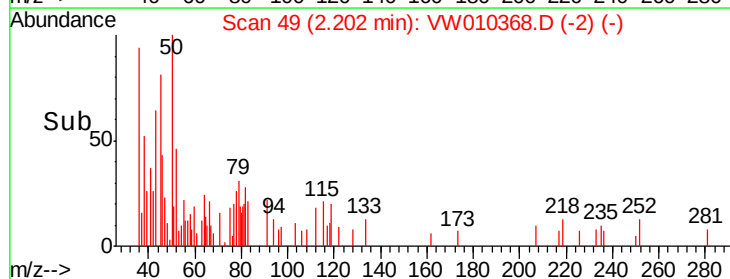
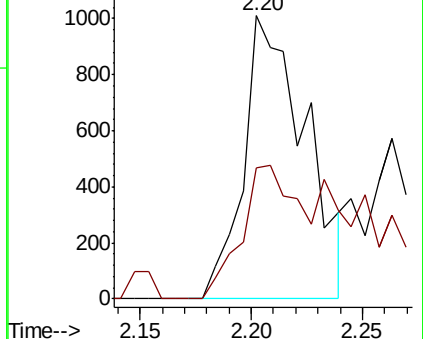
50 100

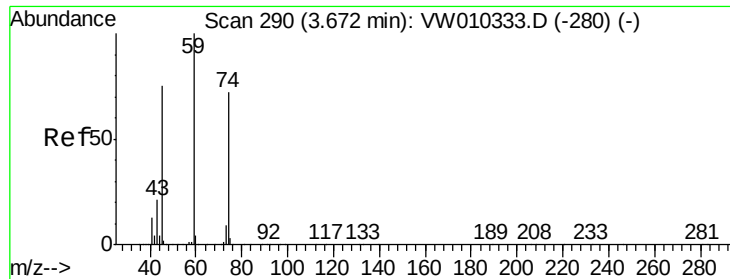
52 46.2 25.0 37.6#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#8

Diethyl Ether

Concen: 7.382 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.02 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

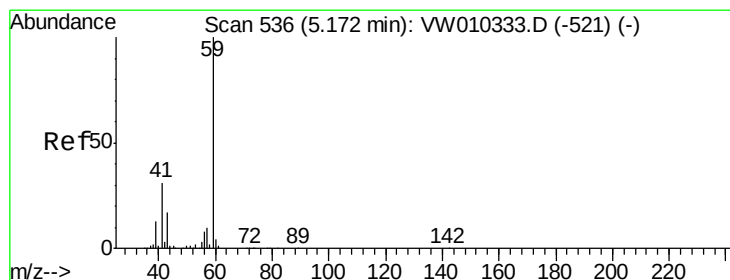
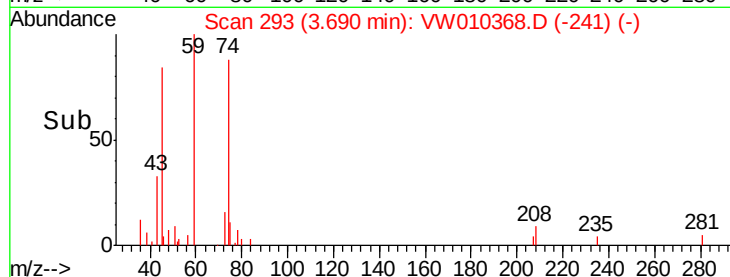
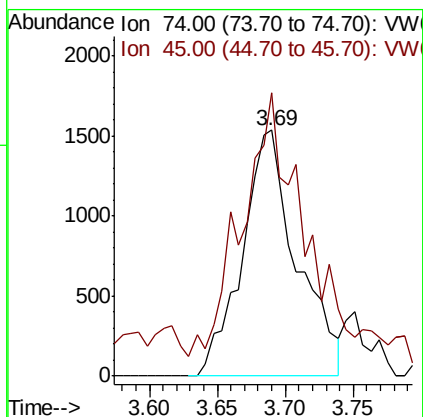
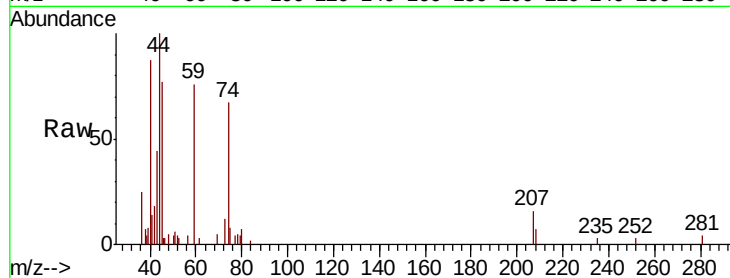
P026-SS006-0002-02

Tgt Ion: 74 Resp: 4322

Ion Ratio Lower Upper

74 100

45 115.6 56.0 168.0



#11

Tert butyl alcohol

Concen: 2.216 ug/l

RT: 5.14 min Scan# 531

Delta R.T. -0.03 min

Lab File: VW010368.D

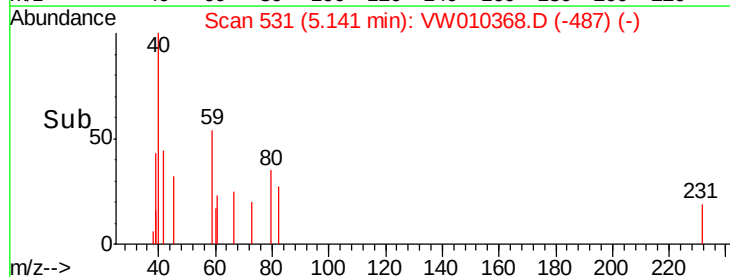
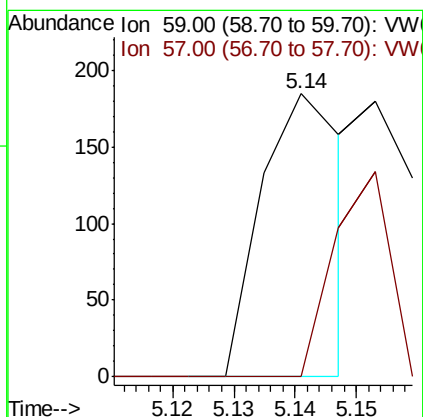
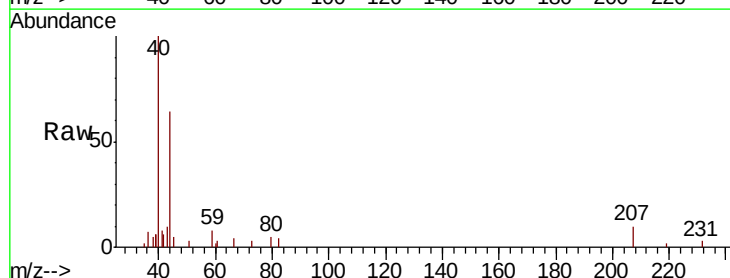
Acq: 10 May 2019 20:53

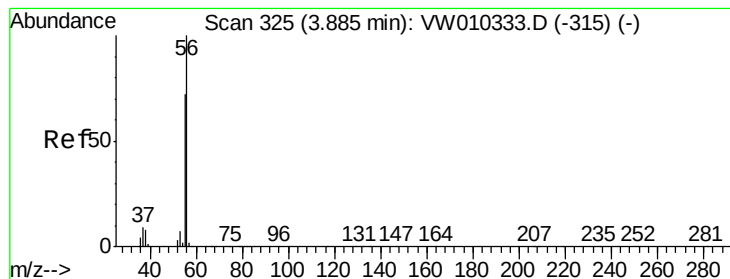
Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 48.3 9.0 13.4#





#13

Acrolein

Concen: 1.968 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

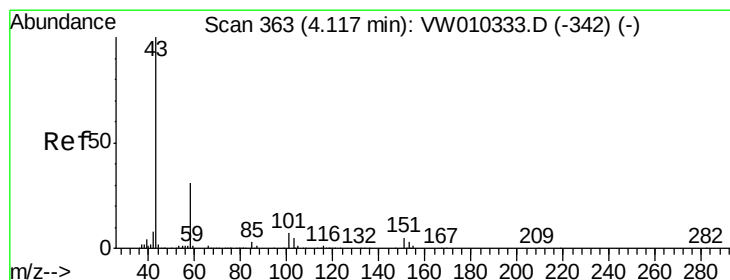
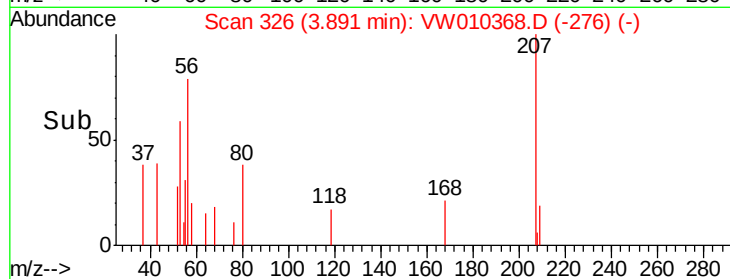
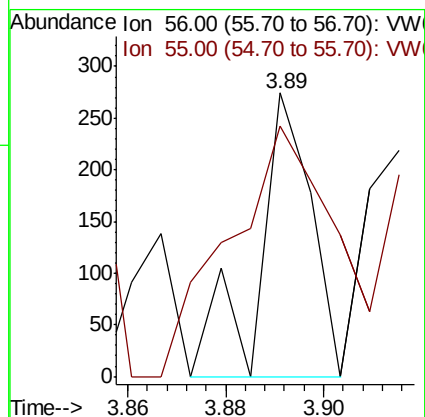
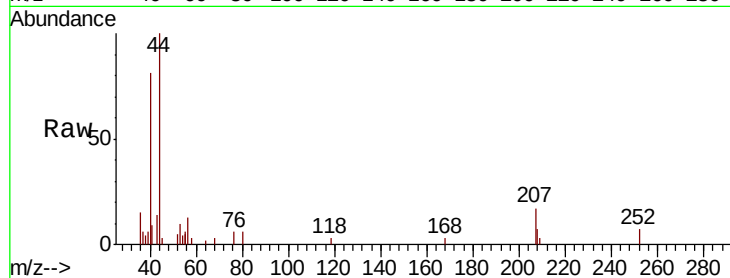
P026-SS006-0002-02

Tgt Ion: 56 Resp: 204

Ion Ratio Lower Upper

56 100

55 178.4 54.2 81.2#



#16

Acetone

Concen: 62.283 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010368.D

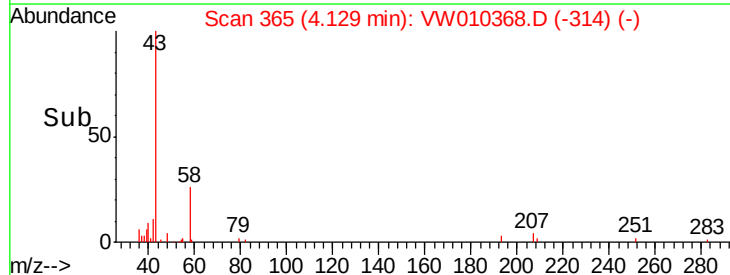
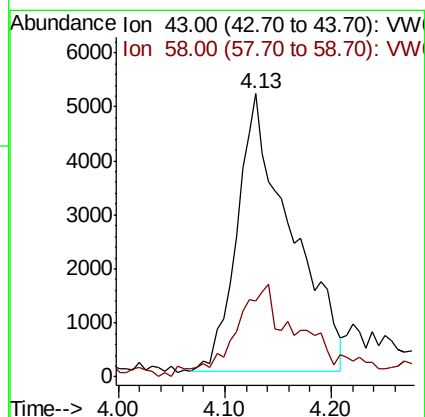
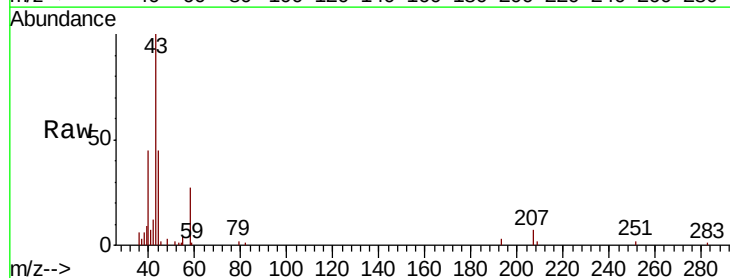
Acq: 10 May 2019 20:53

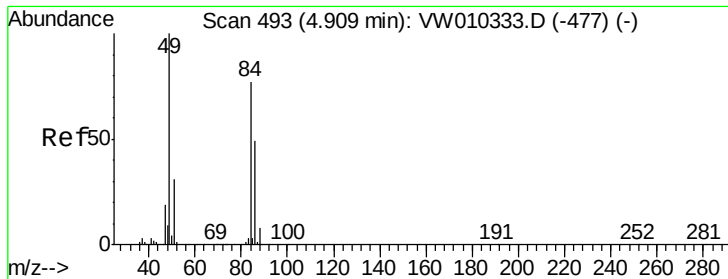
Tgt Ion: 43 Resp: 18051

Ion Ratio Lower Upper

43 100

58 24.5 22.7 34.1





#20

Methylene Chloride

Concen: 13.092 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.00 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

P026-SS006-0002-02

Tgt Ion: 84 Resp: 15826

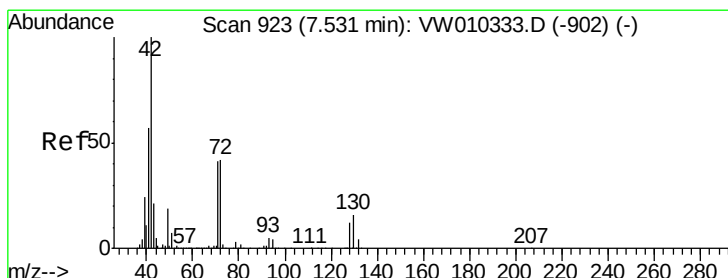
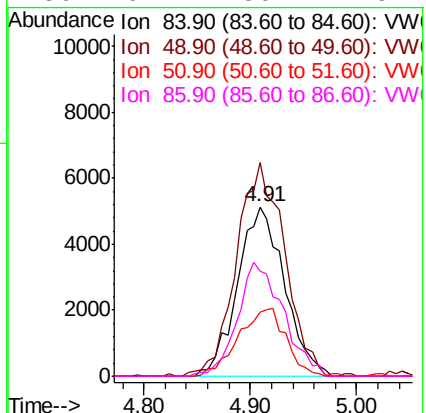
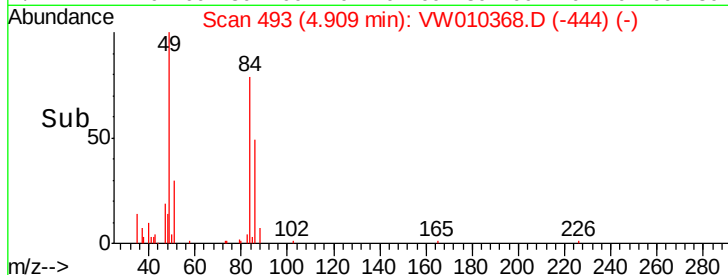
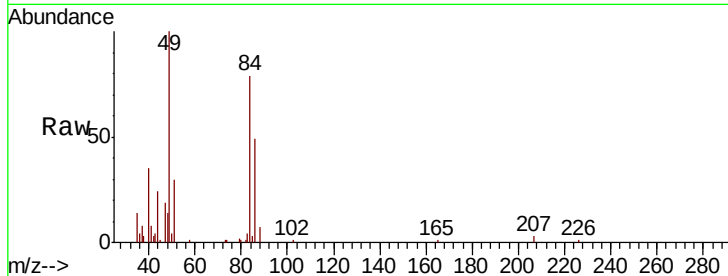
Ion Ratio Lower Upper

84 100

49 126.2 112.3 168.5

51 37.9 33.9 50.9

86 61.7 50.2 75.4



#29

Tetrahydrofuran

Concen: 2.005 ug/l

RT: 7.52 min Scan# 922

Delta R.T. -0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

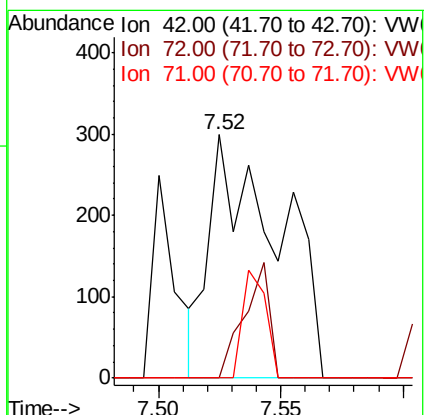
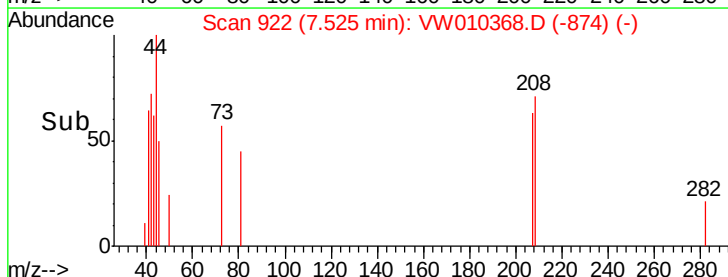
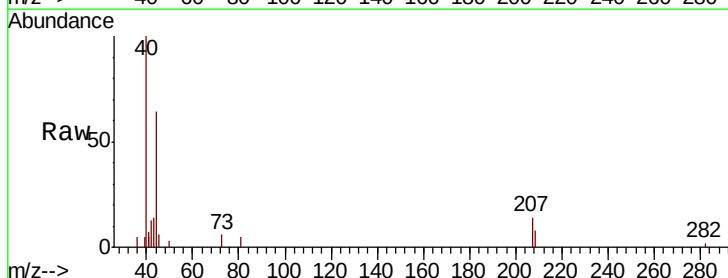
Tgt Ion: 42 Resp: 575

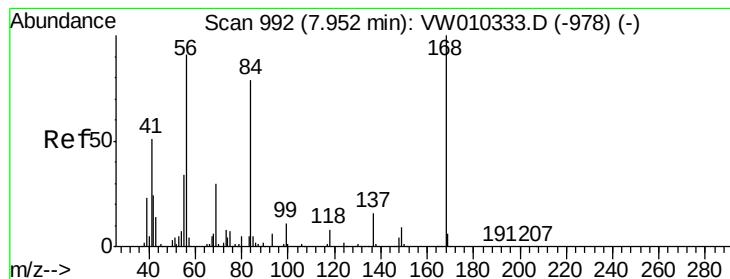
Ion Ratio Lower Upper

42 100

72 17.7 31.0 46.6#

71 15.0 29.7 44.5#





#31

Cyclohexane

Concen: 1.569 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

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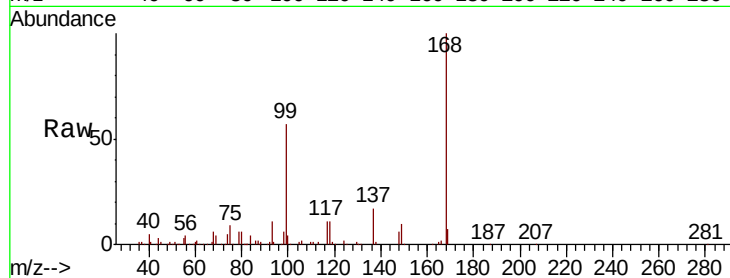
Tgt Ion: 56 Resp: 3573

Ion Ratio Lower Upper

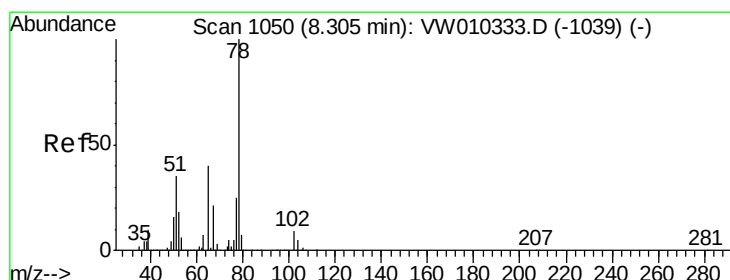
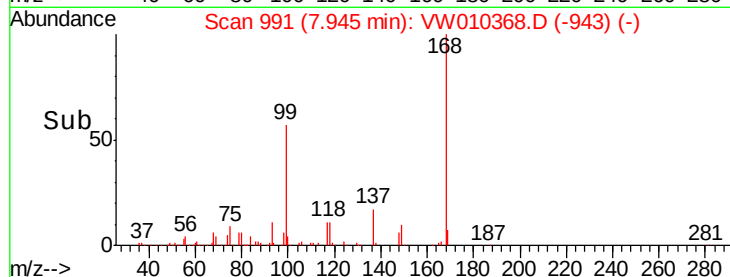
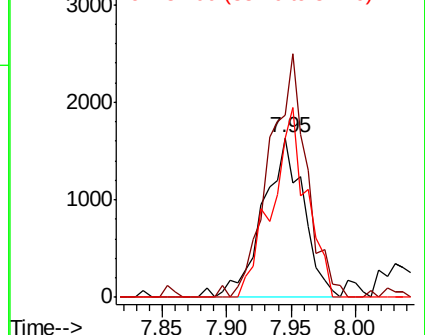
56 100

69 114.6 26.6 40.0#

84 99.4 66.2 99.2#



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: 58.090 ug/l

RT: 8.30 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VW010368.D

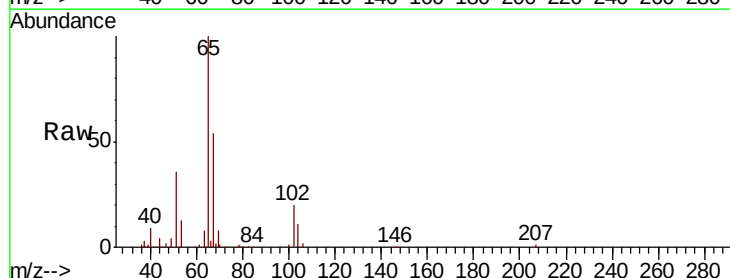
Acq: 10 May 2019 20:53

Tgt Ion: 65 Resp: 64580

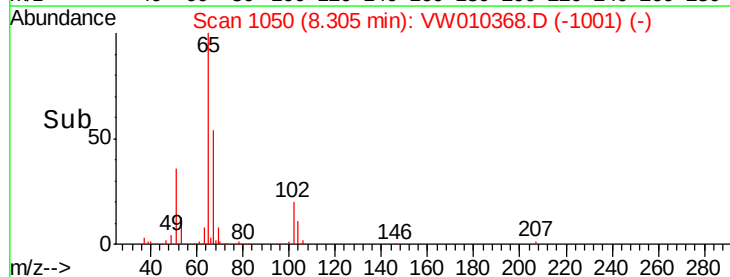
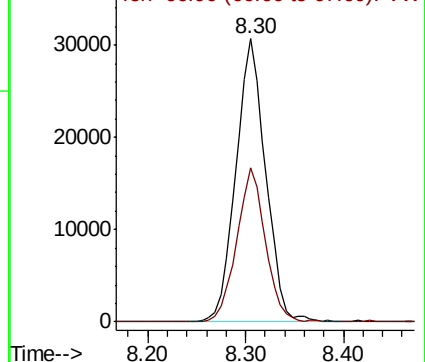
Ion Ratio Lower Upper

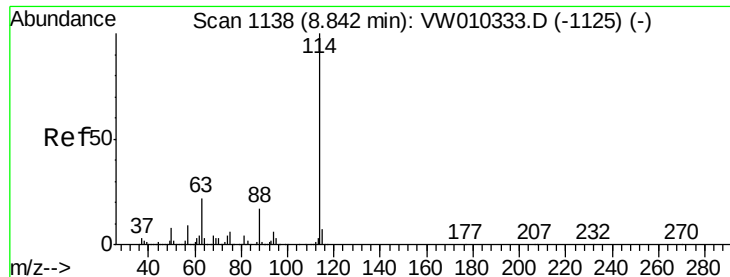
65 100

67 52.6 0.0 100.8



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: VW010368.D

Acq: 10 May 2019 20:53

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P026-SS006-0002-02

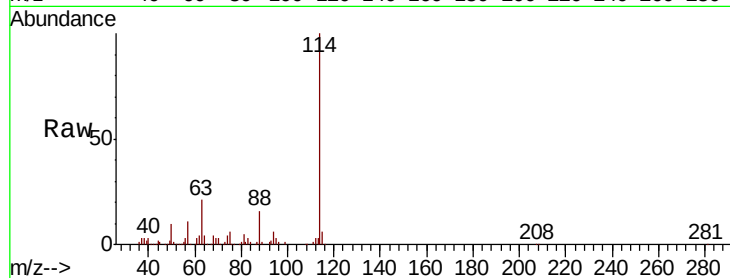
Tgt Ion:114 Resp: 159329

Ion Ratio Lower Upper

114 100

63 21.2 0.0 46.2

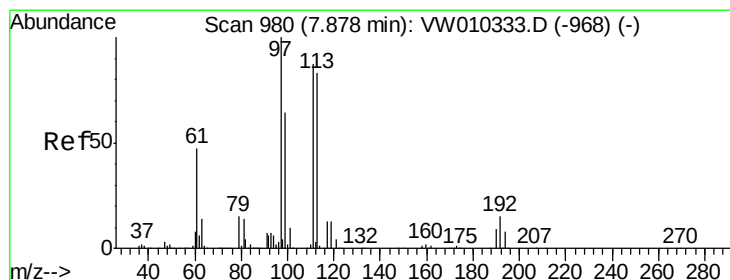
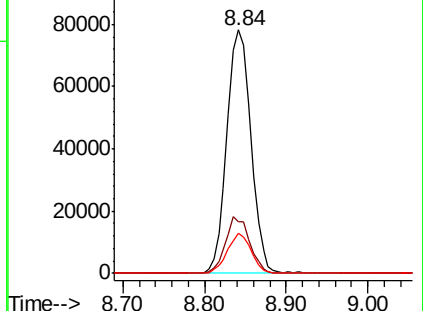
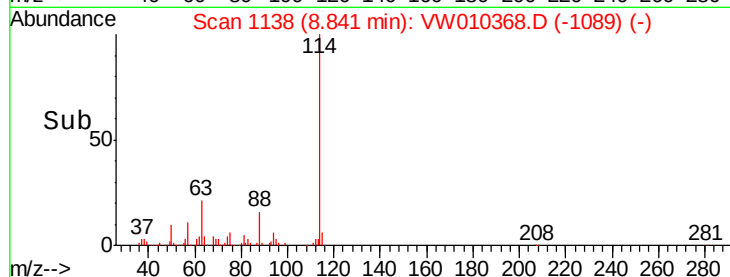
88 16.2 0.0 32.6



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: 56.399 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

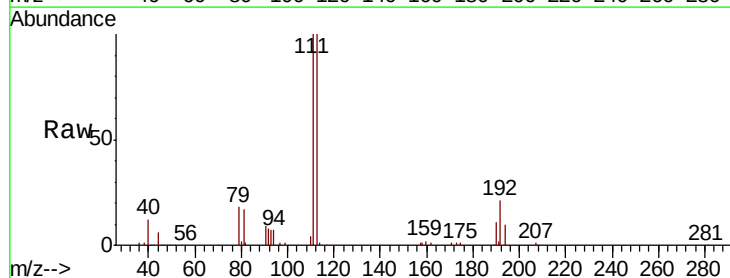
Tgt Ion:113 Resp: 52585

Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

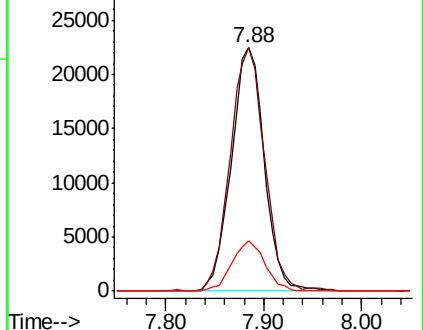
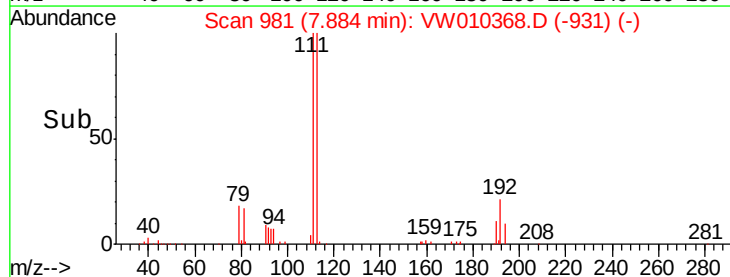
192 20.4 15.4 23.2

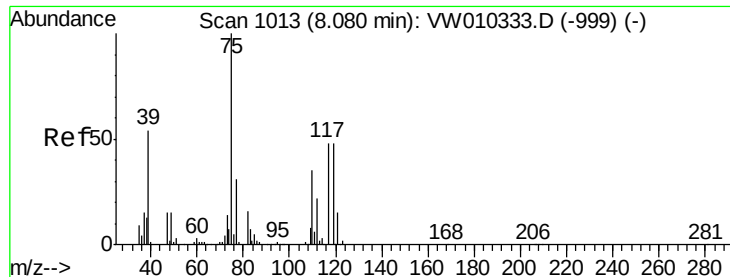


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

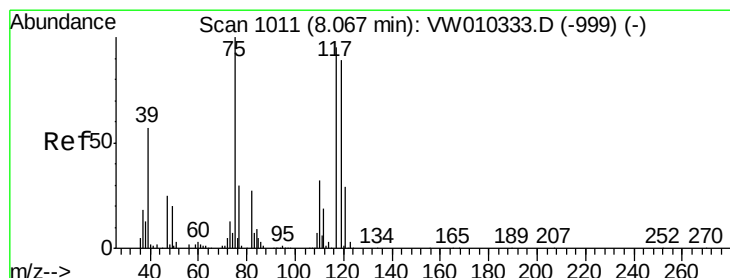
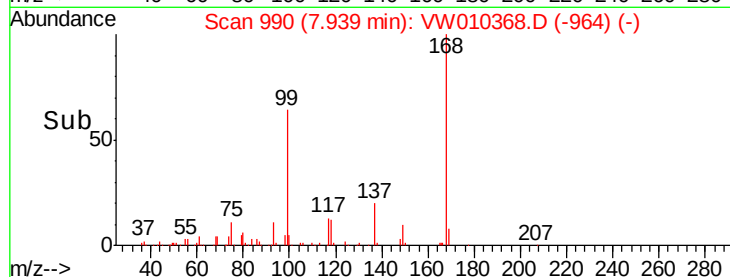
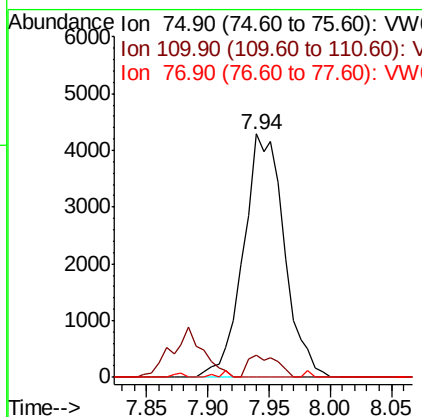
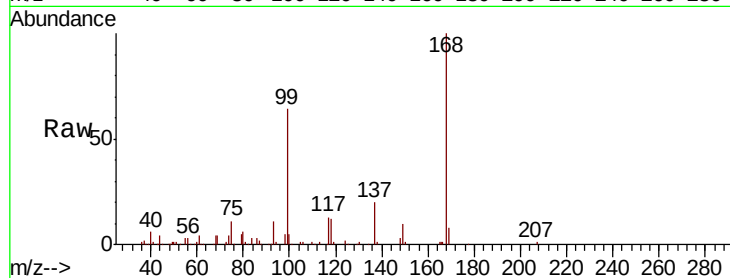




#36
 1,1-Dichloropropene
 Concen: 5.767 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW010368.D
 Acq: 10 May 2019 20:53

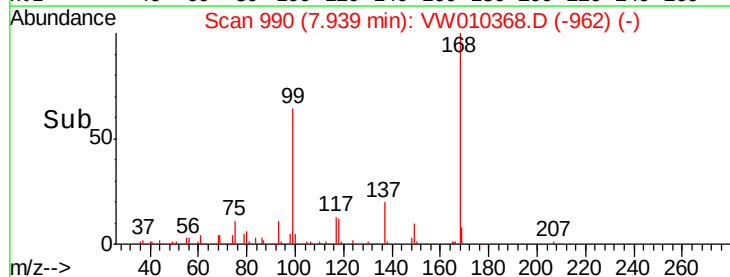
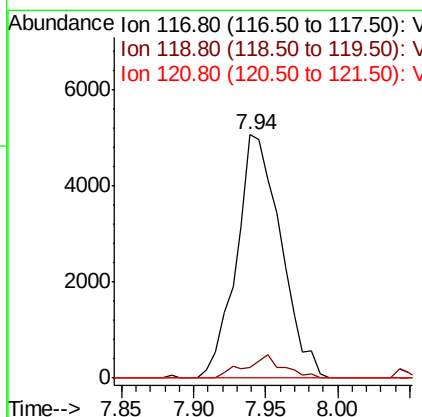
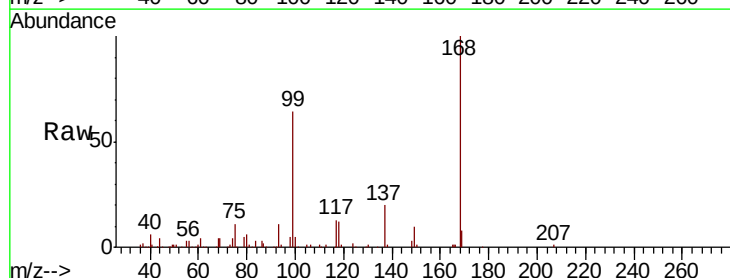
Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS006-0002-02

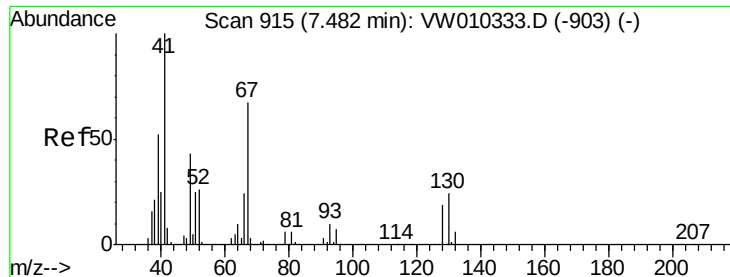
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.5	16.6	49.8#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.278 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.13 min
 Lab File: VW010368.D
 Acq: 10 May 2019 20:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	75.3	112.9#
121	0.0	24.4	36.6#

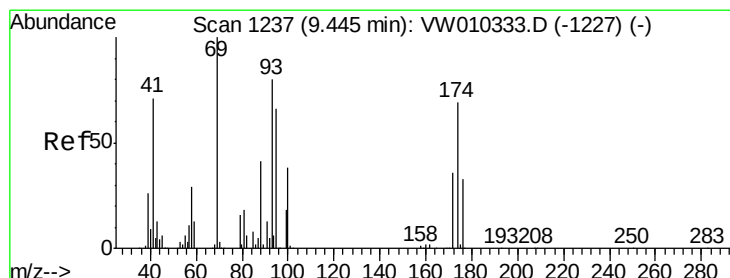
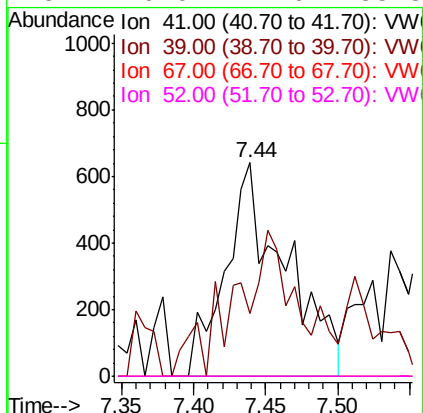
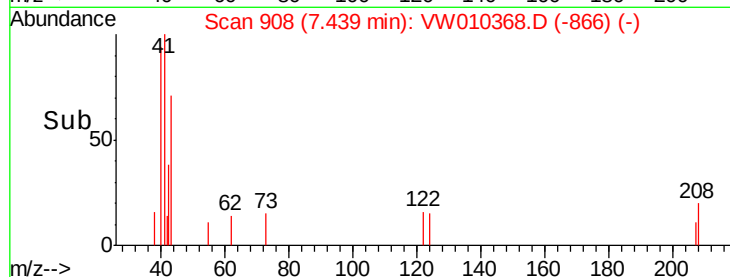
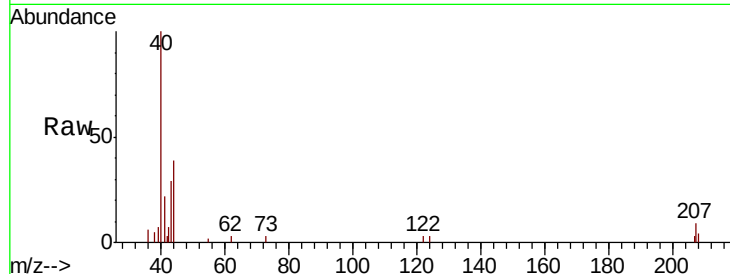




#41
Methacrylonitrile
Concen: 3.602 ug/l
RT: 7.44 min Scan# 908
Delta R.T. -0.04 min
Lab File: VW010368.D
Acq: 10 May 2019 20:53

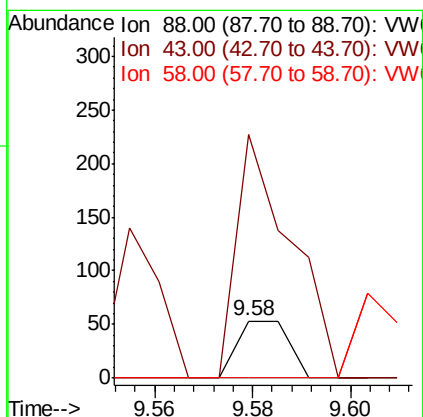
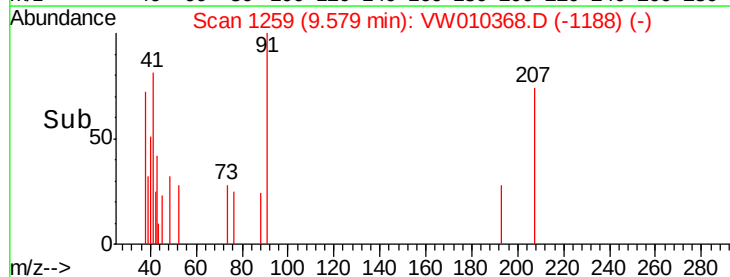
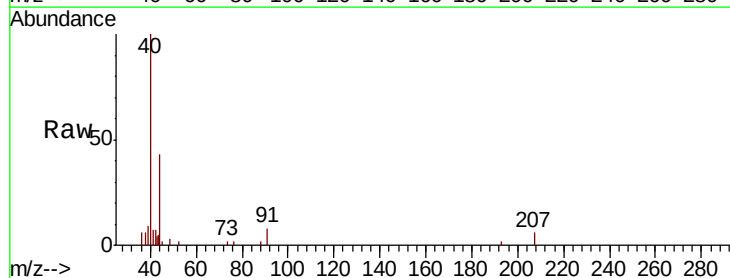
Instrument :
MSVOA_W
ClientSampleId :
P026-SS006-0002-02

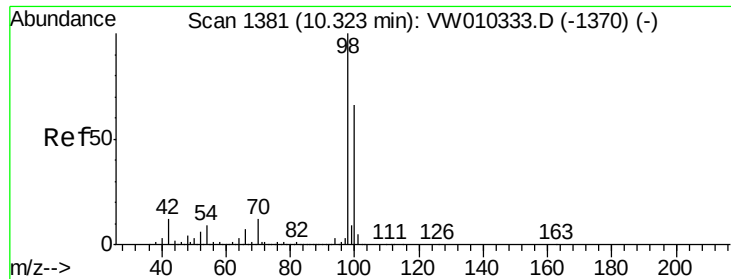
Tgt Ion:	41	Resp:	1858
Ion	Ratio	Lower	Upper
41	100		
39	58.8	45.0	67.4
67	0.0	50.7	76.1#
52	0.0	22.6	33.8#



#49
1,4-Dioxane
Concen: 3.681 ug/l
RT: 9.58 min Scan# 1259
Delta R.T. 0.13 min
Lab File: VW010368.D
Acq: 10 May 2019 20:53

Tgt Ion:	88	Resp:	39
Ion	Ratio	Lower	Upper
88	100		
43	446.2	31.9	47.9#
58	0.0	61.8	92.6#





#50

Toluene-d8

Concen: 26.994 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

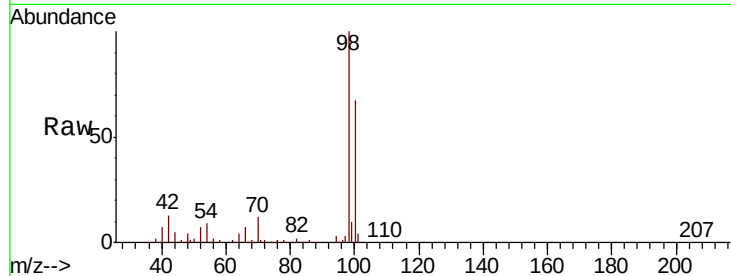
P026-SS006-0002-02

Tgt Ion: 98 Resp: 102485

Ion Ratio Lower Upper

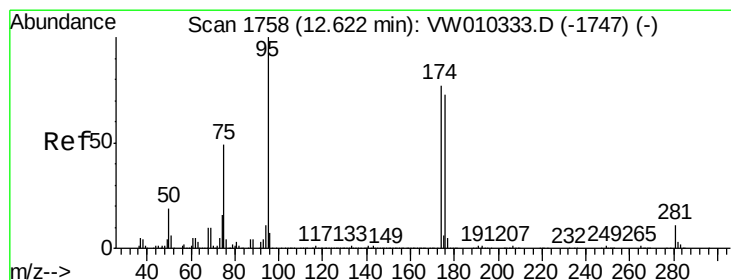
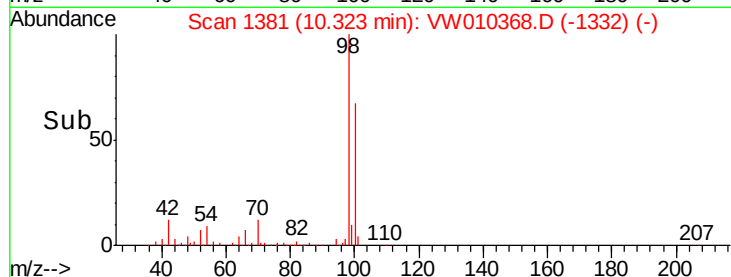
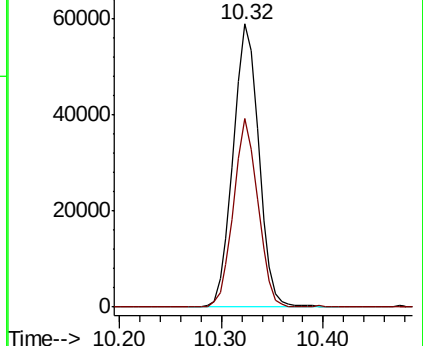
98 100

100 63.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 10.395 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

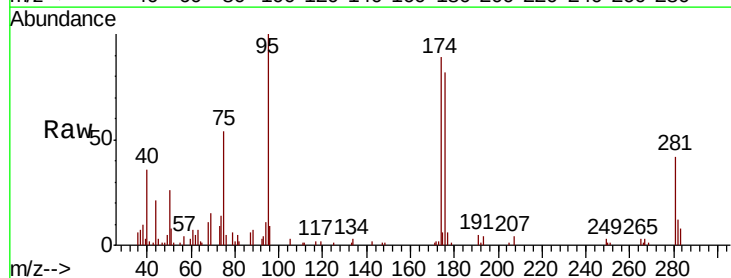
Tgt Ion: 95 Resp: 13892

Ion Ratio Lower Upper

95 100

174 77.5 0.0 151.4

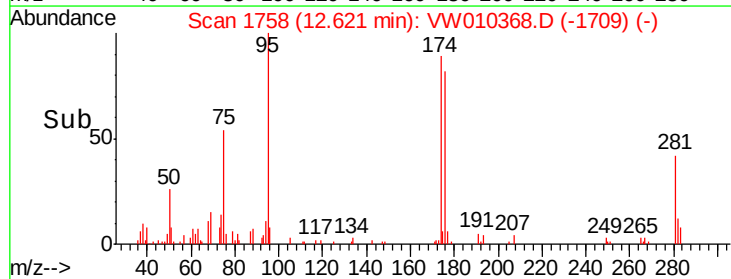
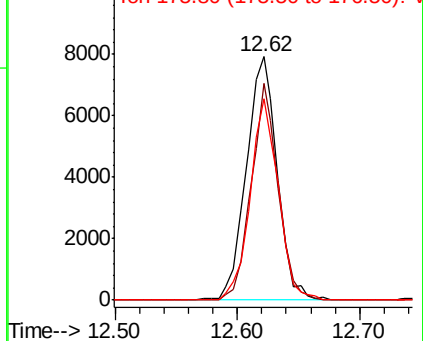
176 75.6 0.0 146.2

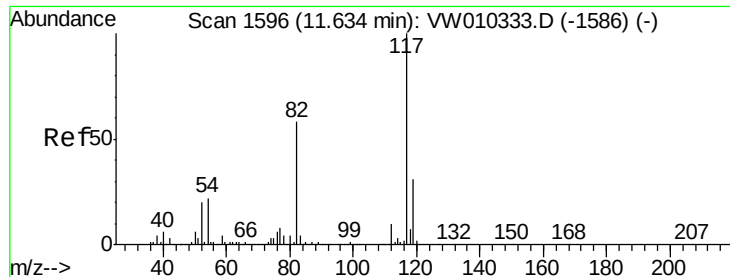


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

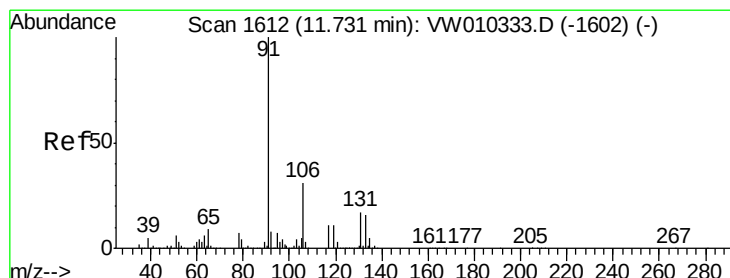
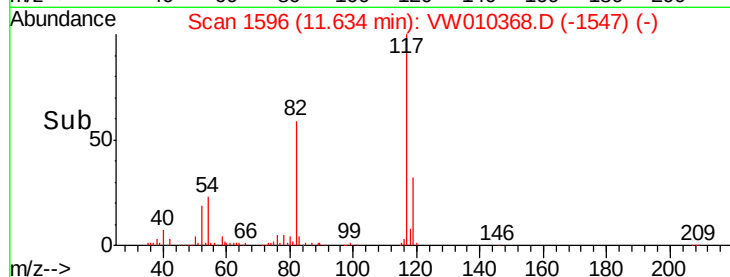
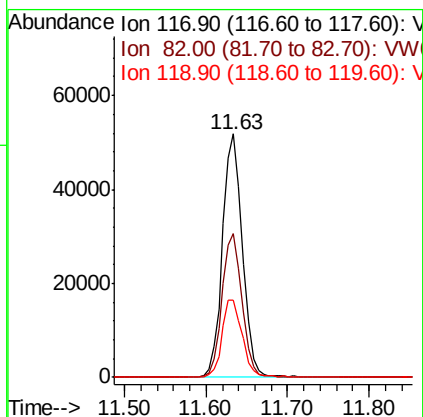
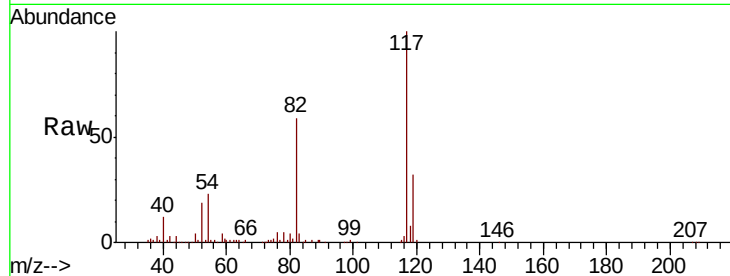




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW010368.D
Acq: 10 May 2019 20:53

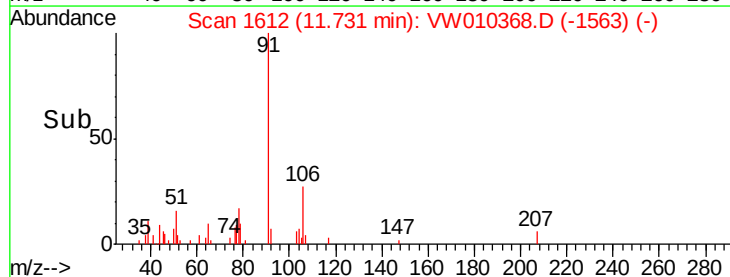
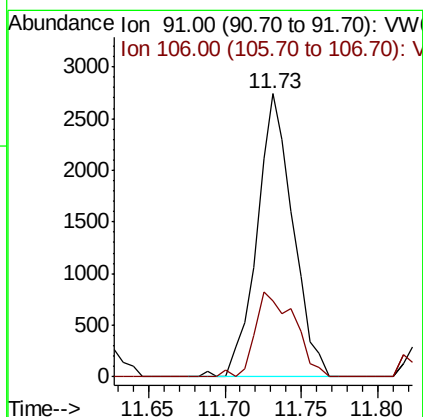
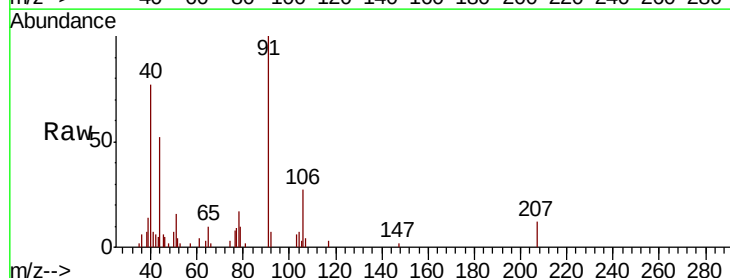
Instrument :
MSVOA_W
ClientSampleId :
P026-SS006-0002-02

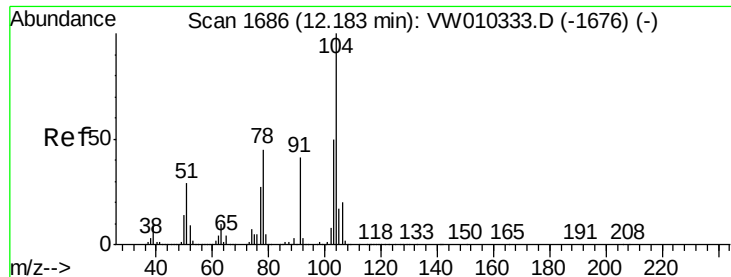
Tgt Ion:117 Resp: 87582
Ion Ratio Lower Upper
117 100
82 58.9 45.2 67.8
119 31.9 25.4 38.2



#67
Ethyl Benzene
Concen: 1.339 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW010368.D
Acq: 10 May 2019 20:53

Tgt Ion: 91 Resp: 4466
Ion Ratio Lower Upper
91 100
106 26.8 23.8 35.8





#70

Styrene

Concen: 1.485 ug/l

RT: 12.19 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

P026-SS006-0002-02

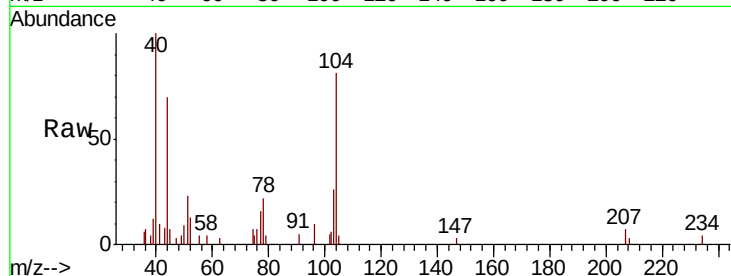
Tgt Ion:104 Resp: 2900

Ion Ratio Lower Upper

104 100

78 42.6 42.5 63.7

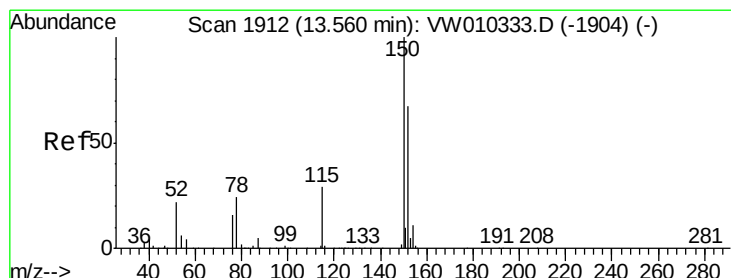
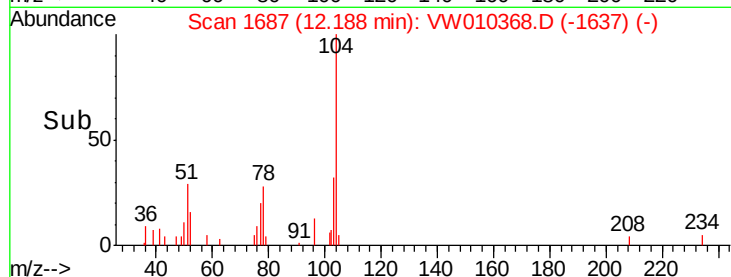
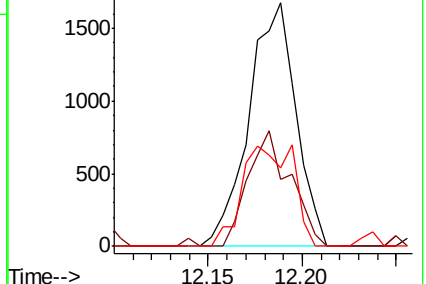
103 45.1 43.6 65.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

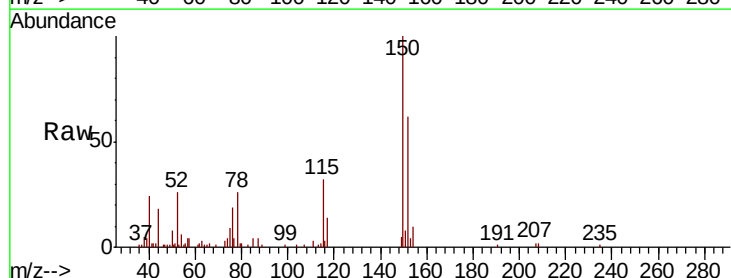
Tgt Ion:152 Resp: 10794

Ion Ratio Lower Upper

152 100

115 55.2 30.4 91.2

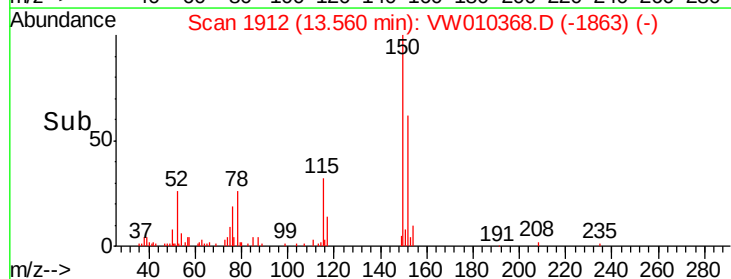
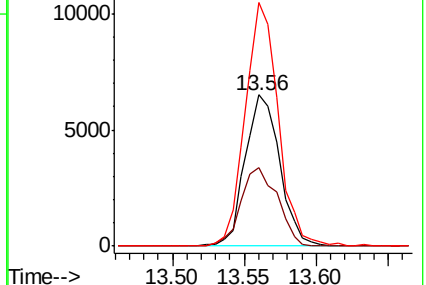
150 153.7 0.0 347.0

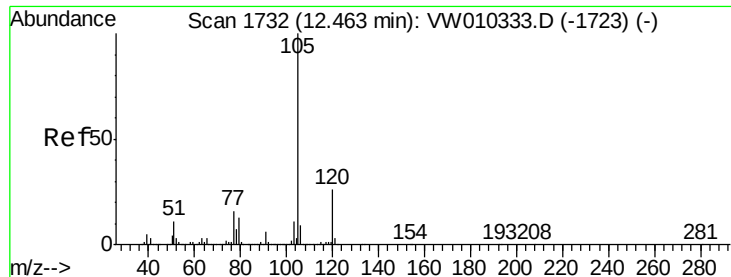


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.632 ug/l

RT: 12.47 min Scan# 1734

Delta R.T. 0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

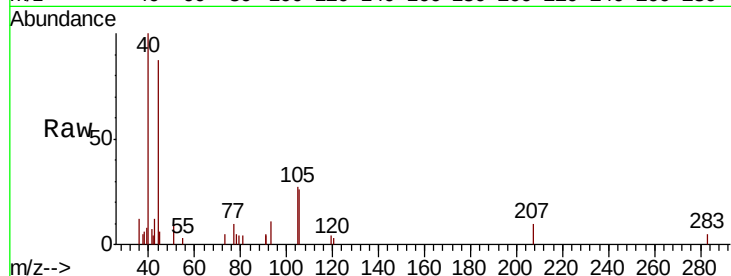
P026-SS006-0002-02

Tgt Ion: 105 Resp: 1284

Ion Ratio Lower Upper

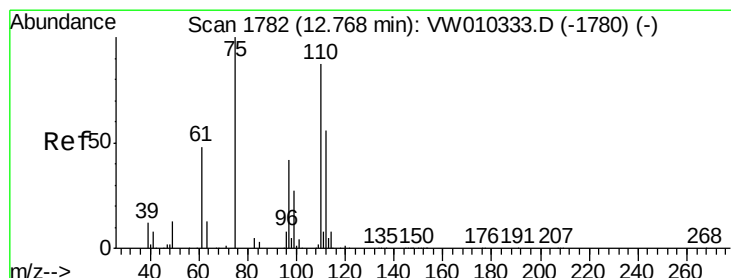
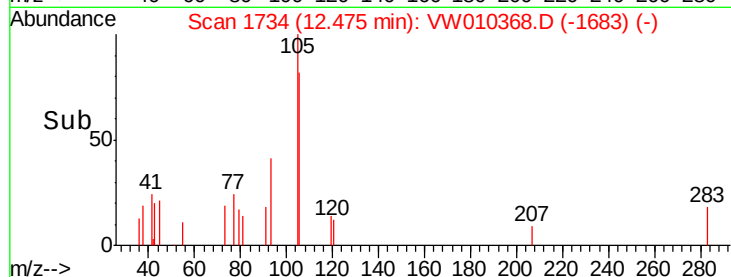
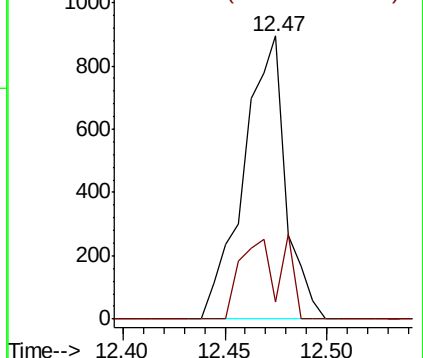
105 100

120 27.9 13.1 39.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 3.814 ug/l

RT: 12.77 min Scan# 1783

Delta R.T. 0.01 min

Lab File: VW010368.D

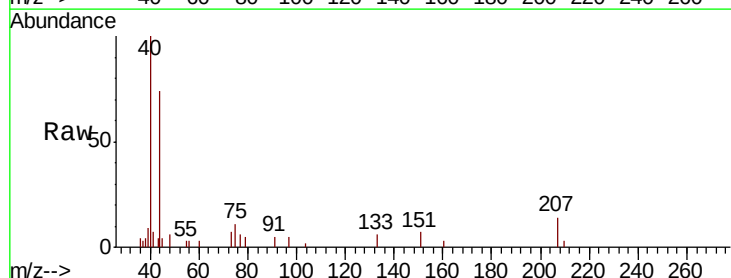
Acq: 10 May 2019 20:53

Tgt Ion: 75 Resp: 480

Ion Ratio Lower Upper

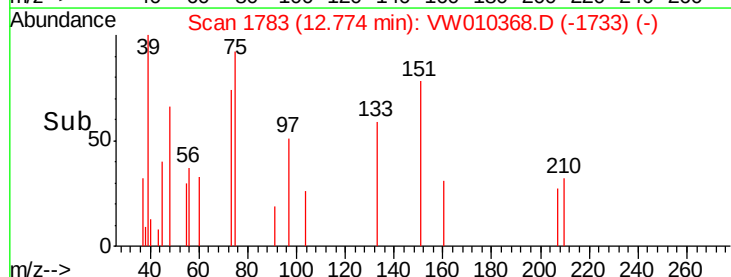
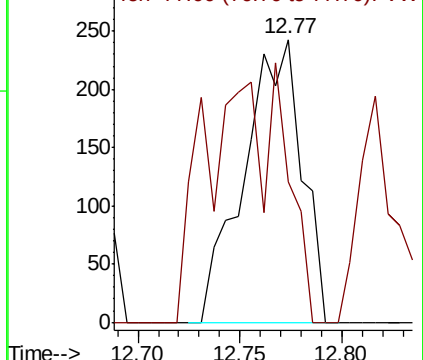
75 100

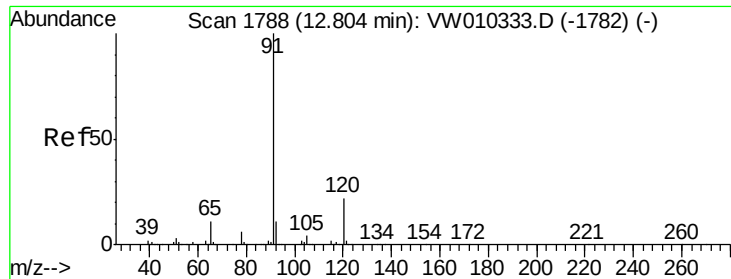
77 25.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#78

n-propylbenzene

Concen: 1.148 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

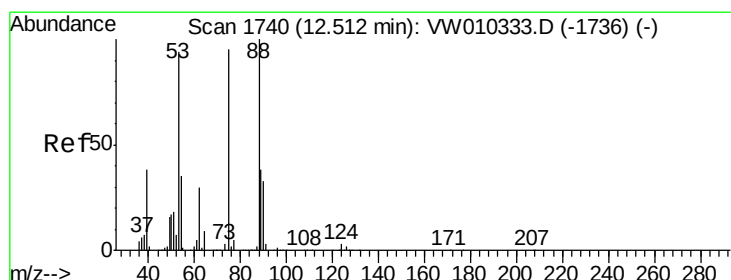
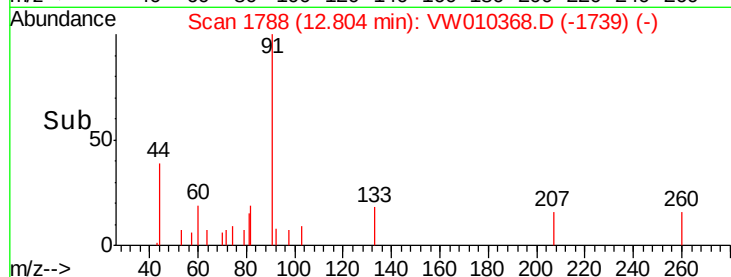
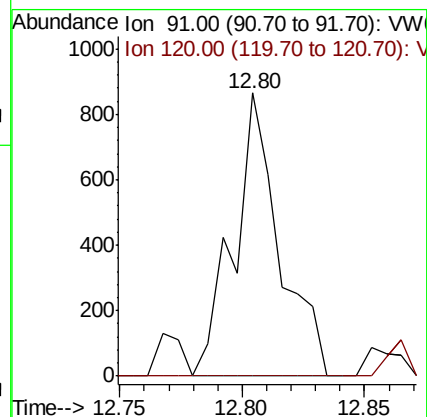
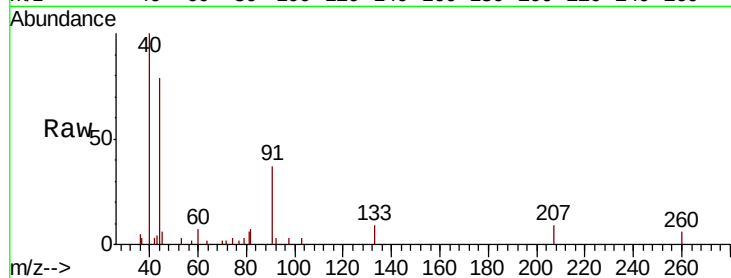
P026-SS006-0002-02

Tgt Ion: 91 Resp: 1116

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 129.883 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

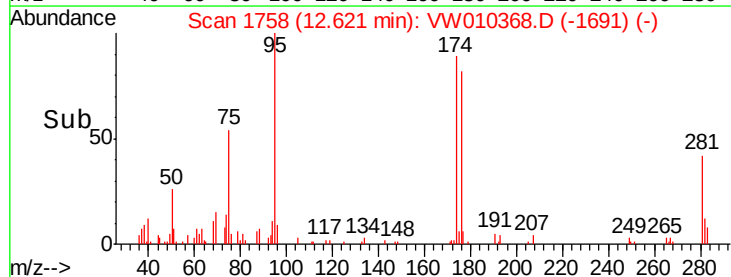
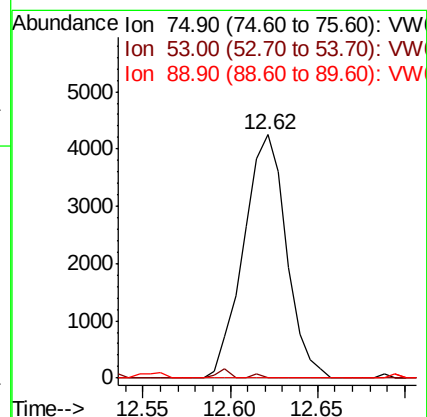
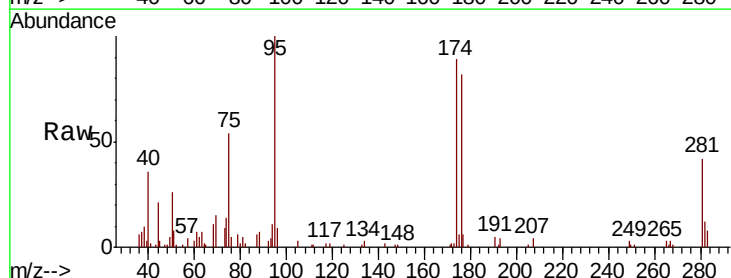
Tgt Ion: 75 Resp: 7238

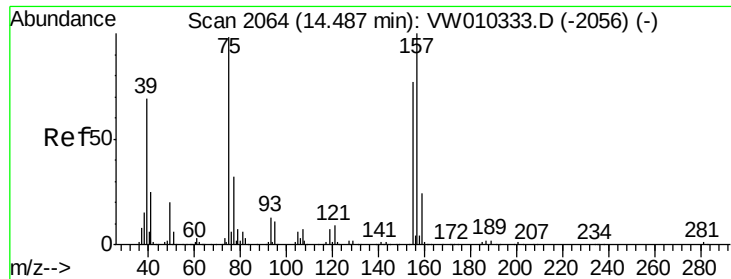
Ion Ratio Lower Upper

75 100

53 0.3 89.8 134.8#

89 0.0 36.6 54.8#

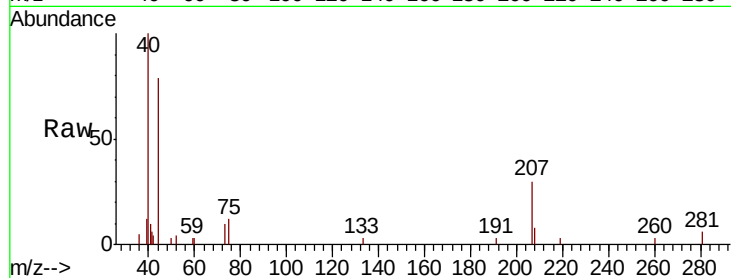




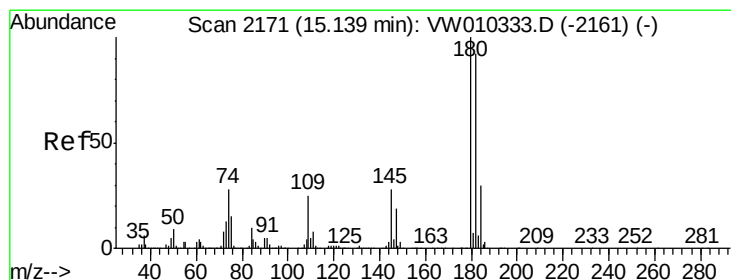
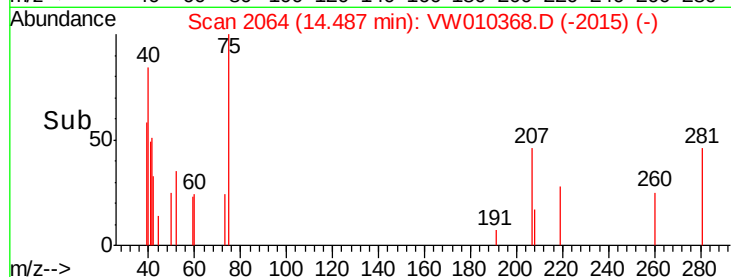
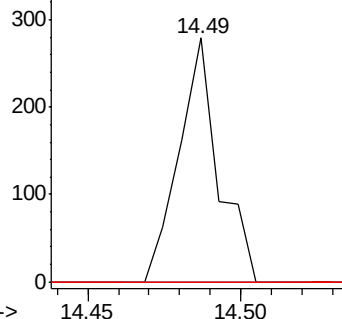
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.040 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW010368.D
 Acq: 10 May 2019 20:53

Instrument :
 MSVOA_W
 ClientSampleId :
 P026-SS006-0002-02

Tgt Ion: 75 Resp: 251
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.1 111.5#
 157 0.0 47.3 141.9#

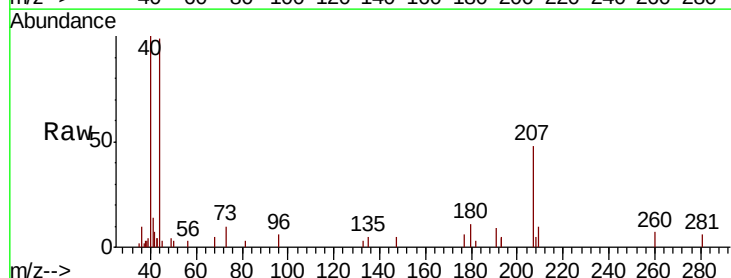


Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

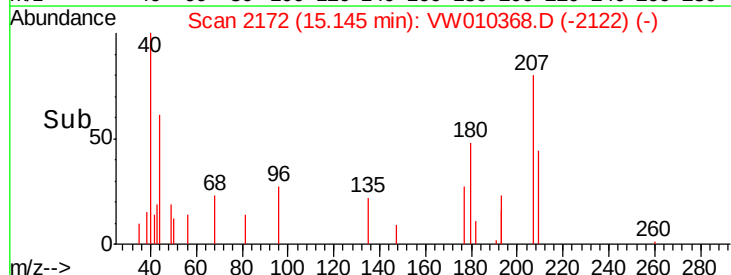
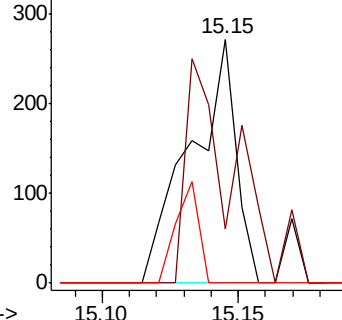


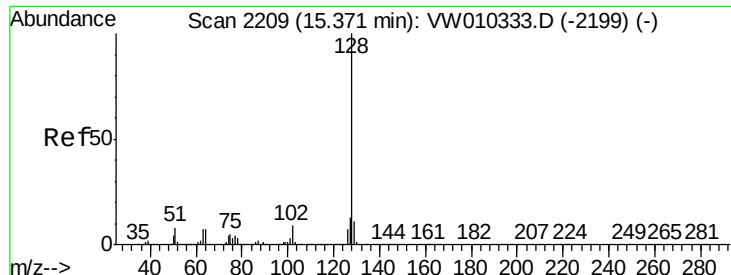
#93
 1,2,4-Trichlorobenzene
 Concen: 1.470 ug/l
 RT: 15.15 min Scan# 2172
 Delta R.T. 0.01 min
 Lab File: VW010368.D
 Acq: 10 May 2019 20:53

Tgt Ion: 180 Resp: 315
 Ion Ratio Lower Upper
 180 100
 182 98.4 47.1 141.4
 145 20.6 15.2 45.6



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 6.188 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW010368.D

Acq: 10 May 2019 20:53

Instrument :

MSVOA_W

ClientSampleId :

P026-SS006-0002-02

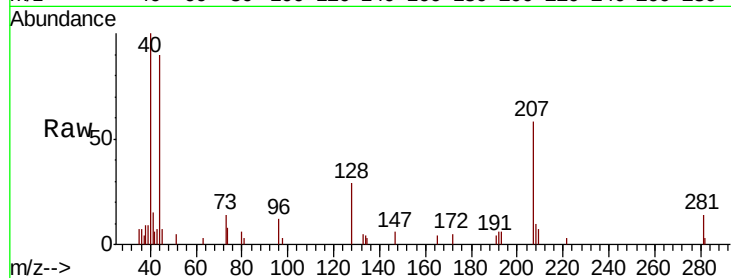
Tgt Ion:128 Resp: 1368

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

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

