

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW091118\
 Data File : VW005279.D
 Acq On : 11 Sep 2018 16:44
 Operator : SY/AP
 Sample : J4724-17
 Misc : 5.37G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-SUT-4USTS-N

Quant Time: Sep 12 01:06:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W091018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 03:48:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	499178	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	733846	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	785914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	421466	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.32	65	192731	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
35) Dibromofluoromethane	7.89	113	175308	45.60	ug/l	0.00
Spiked Amount			Recovery	=	91.20%	
50) Toluene-d8	10.33	98	828778	42.67	ug/l	0.00
Spiked Amount			Recovery	=	85.34%	
62) 4-Bromofluorobenzene	12.62	95	345887	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	

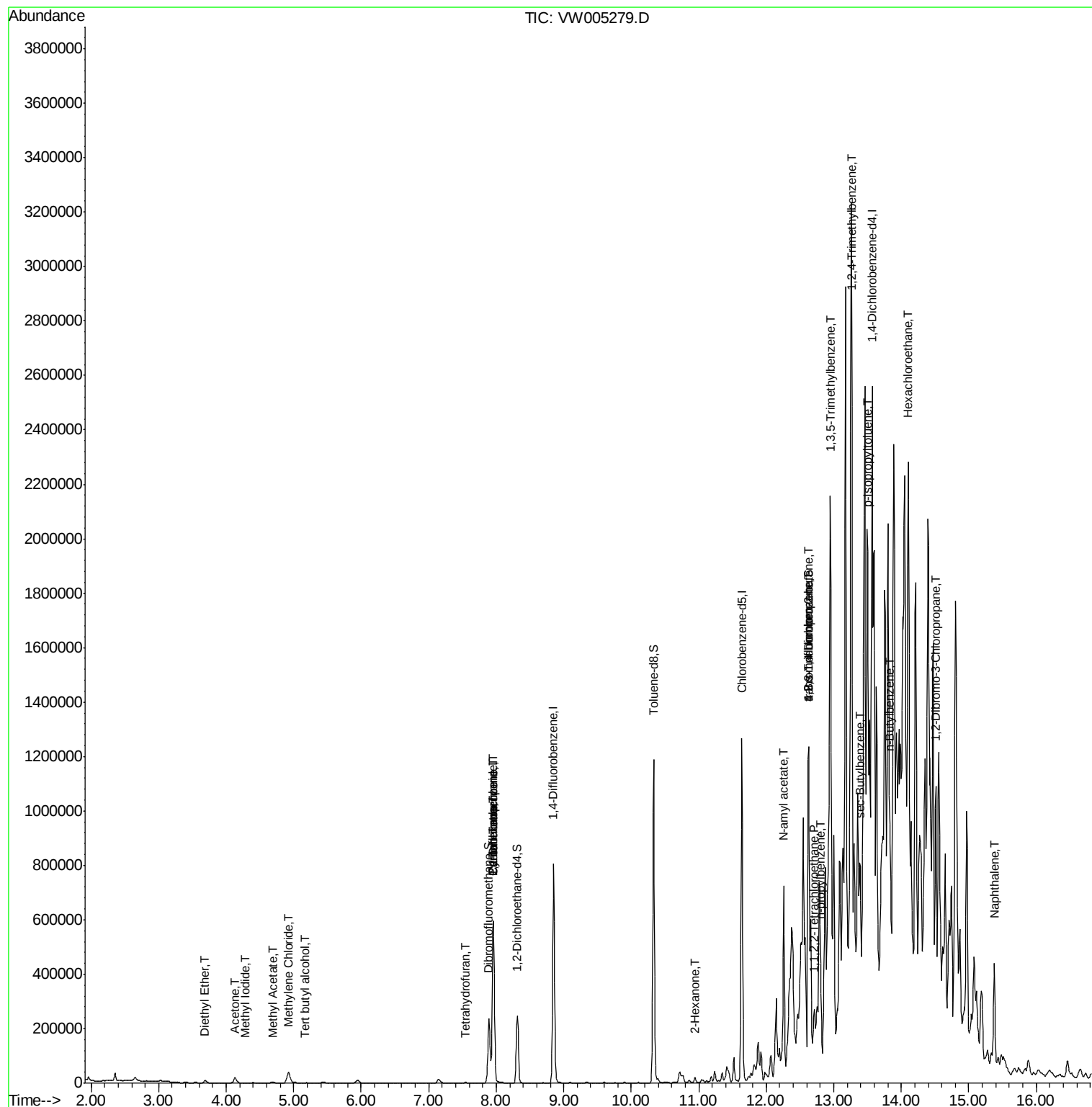
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.76	94	818	Below Cal	#	58
8) Diethyl Ether	3.68	74	4816	2.260	ug/l	99
10) Methyl Iodide	4.27	142	299	3.379	ug/l #	70
11) Tert butyl alcohol	5.16	59	682	2.234	ug/l #	92
16) Acetone	4.14	43	35024	50.680	ug/l	97
18) Methyl Acetate	4.68	43	5116	2.480	ug/l #	84
20) Methylene Chloride	4.92	84	33236	3.402	ug/l	96
29) Tetrahydrofuran	7.54	42	1259	1.714	ug/l #	90
31) Cyclohexane	7.95	56	8967	1.126	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	32837	4.884	ug/l #	47
38) Carbon Tetrachloride	7.96	117	43561	6.917	ug/l #	16
59) 2-Hexanone	10.94	43	6899	3.581	ug/l #	27
74) N-amyl acetate	12.26	43	137705	24.305	ug/l #	66
75) 1,1,2,2-Tetrachloroethane	12.69	83	6683	1.493	ug/l #	1
76) 1,2,3-Trichloropropane	12.62	75	156581	48.302	ug/l #	100
78) n-propylbenzene	12.81	91	109821	3.071	ug/l	99
80) 1,3,5-Trimethylbenzene	12.95	105	457917	18.059	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	156581	113.279	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.26	105	1675480	65.754	ug/l	99
85) sec-Butylbenzene	13.39	105	124994	3.922	ug/l #	72
86) p-Isopropyltoluene	13.51	119	222841	7.898	ug/l	100
89) n-Butylbenzene	13.83	91	237688	8.961	ug/l #	75
90) Hexachloroethane	14.11	117	68116	15.068	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1062	1.427	ug/l #	9
95) Naphthalene	15.38	128	346047	23.303	ug/l	100

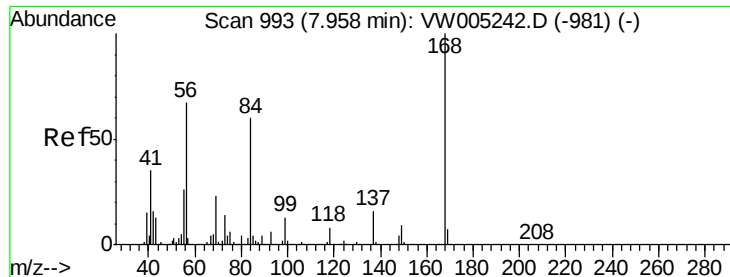
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 11 03:48:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

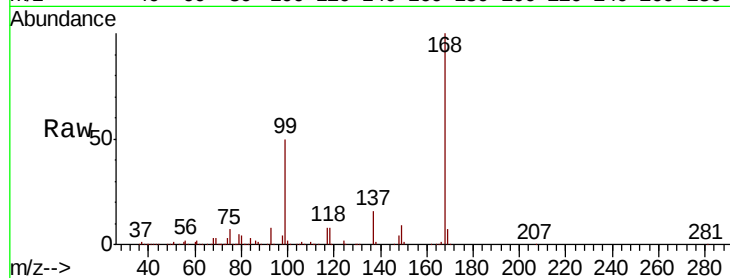
EP1-SUT-4USTS-N

Tgt Ion:168 Resp: 499178

Ion Ratio Lower Upper

168 100

99 49.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.96

250000

200000

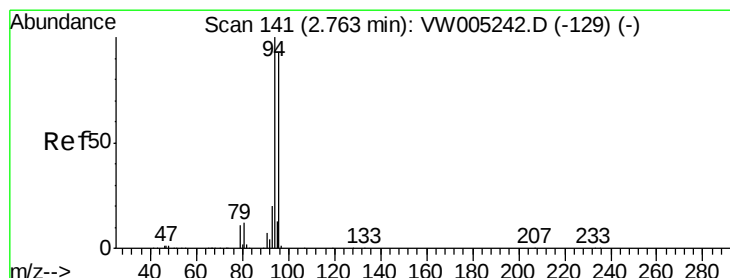
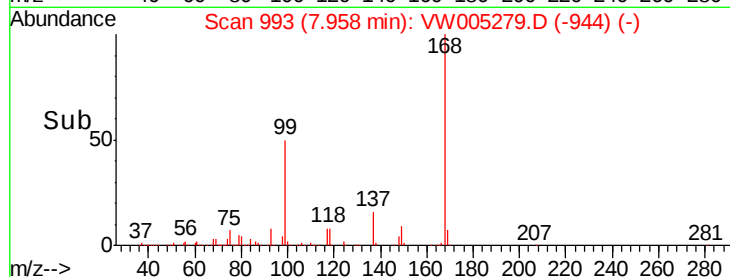
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 140

Delta R.T. -0.01 min

Lab File: VW005279.D

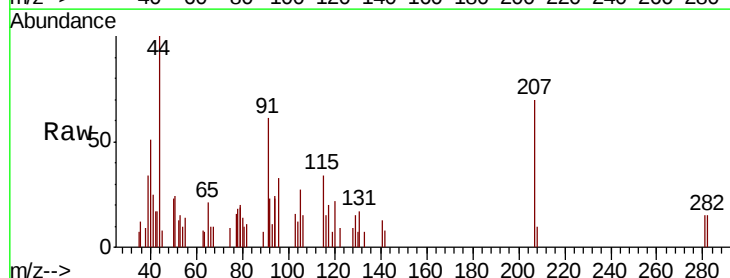
Acq: 11 Sep 2018 16:44

Tgt Ion: 94 Resp: 818

Ion Ratio Lower Upper

94 100

96 52.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW

2.76

400

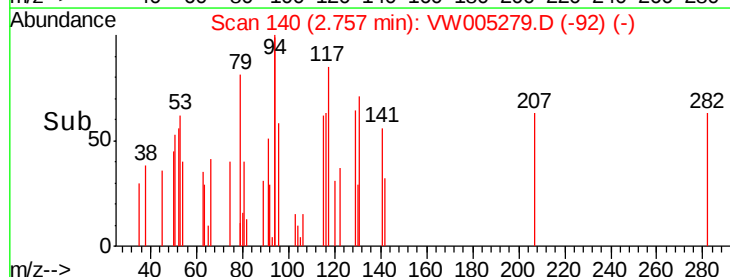
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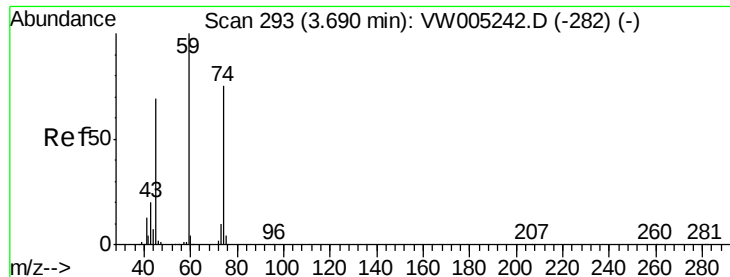
200

100

0

Time-->





#8

Diethyl Ether

Concen: 2.260 ug/l

RT: 3.68 min Scan# 292

Delta R.T. -0.01 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

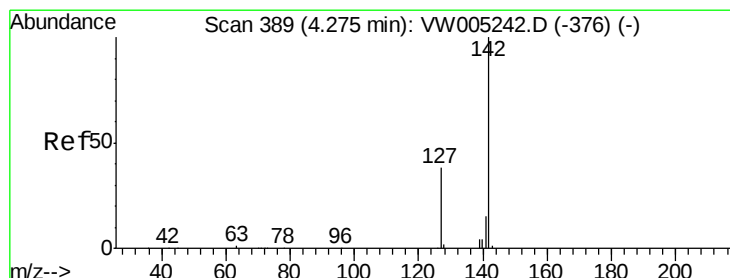
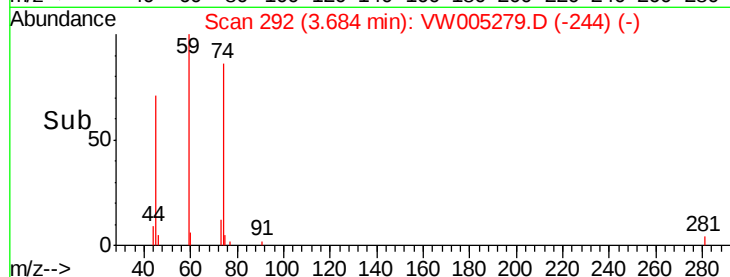
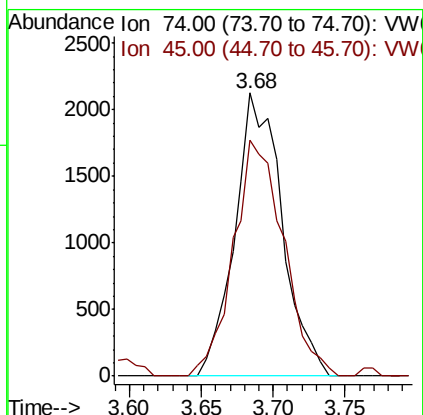
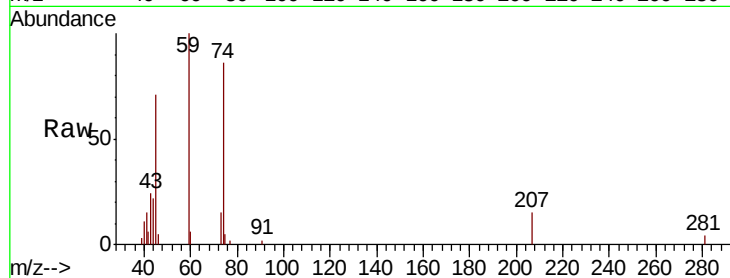
EP1-SUT-4USTS-N

Tgt Ion: 74 Resp: 4816

Ion Ratio Lower Upper

74 100

45 88.8 45.1 135.3



#10

Methyl Iodide

Concen: 3.379 ug/l

RT: 4.27 min Scan# 388

Delta R.T. -0.01 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

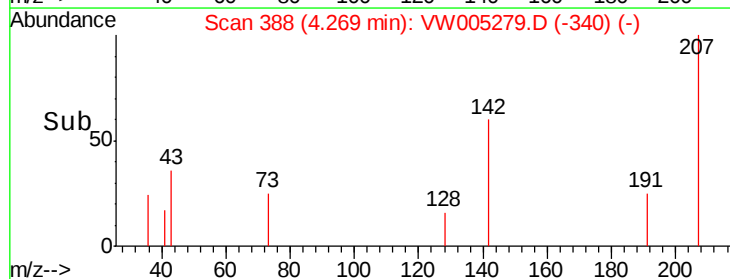
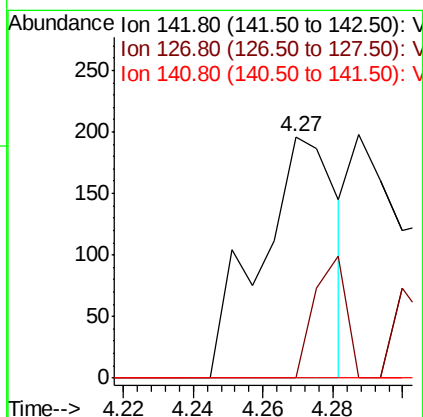
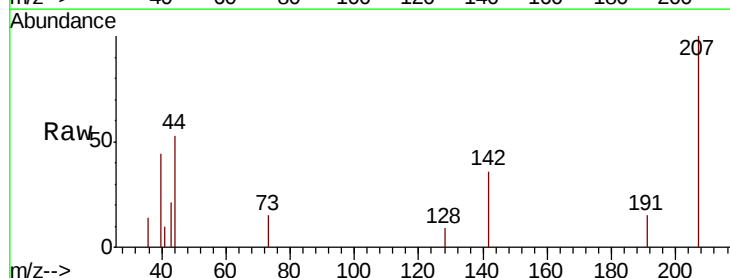
Tgt Ion: 142 Resp: 299

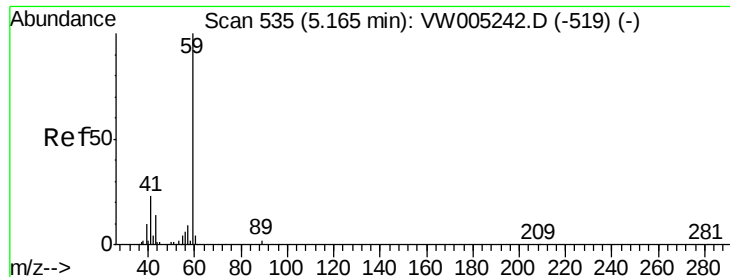
Ion Ratio Lower Upper

142 100

127 21.1 30.3 45.5#

141 0.0 11.4 17.0#

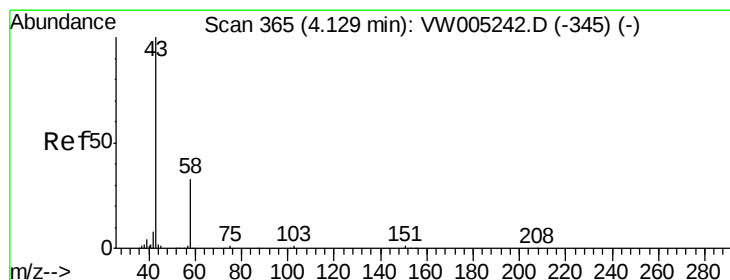
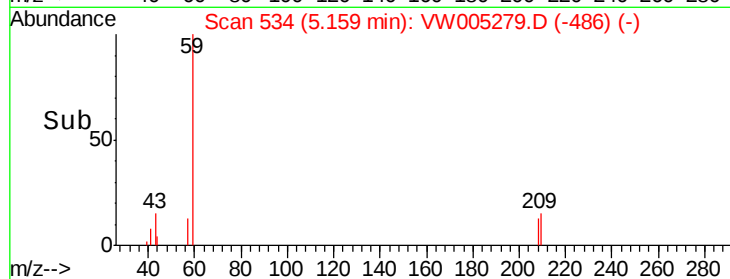
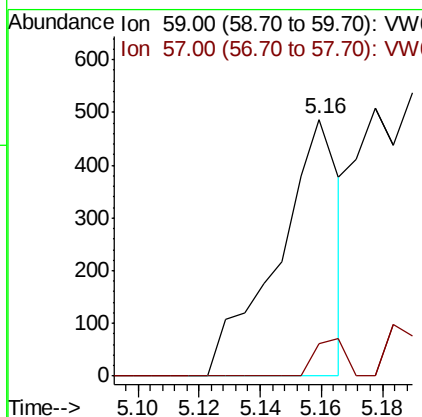
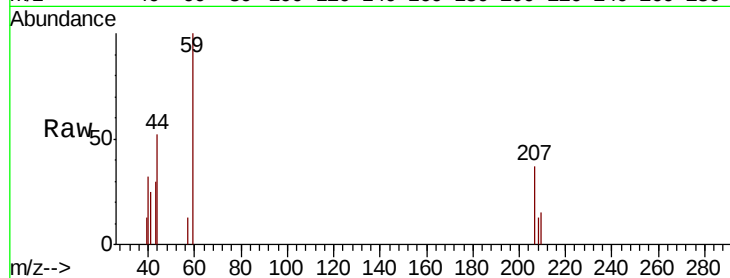




#11
Tert butyl alcohol
Concen: 2.234 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

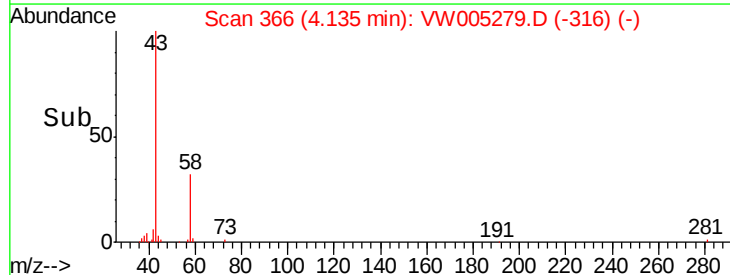
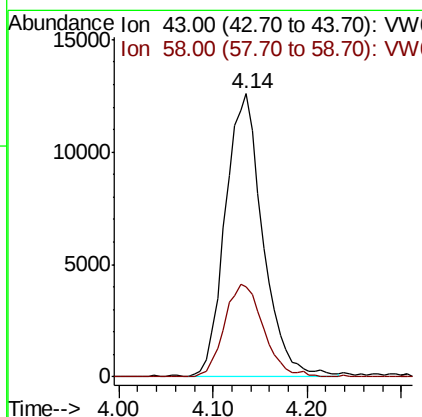
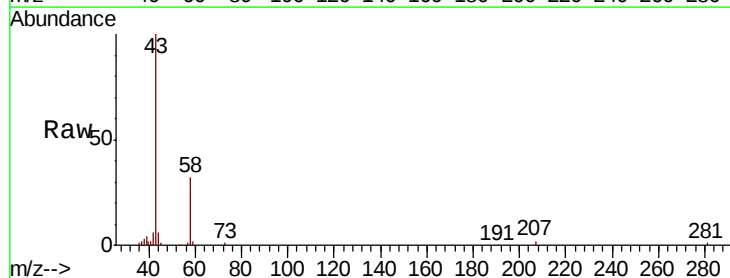
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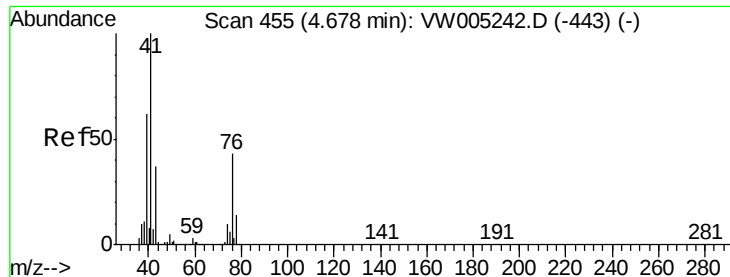
Tgt Ion: 59 Resp: 682
Ion Ratio Lower Upper
59 100
57 7.2 8.1 12.1#



#16
Acetone
Concen: 50.680 ug/l
RT: 4.14 min Scan# 366
Delta R.T. 0.01 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

Tgt Ion: 43 Resp: 35024
Ion Ratio Lower Upper
43 100
58 31.9 26.7 40.1

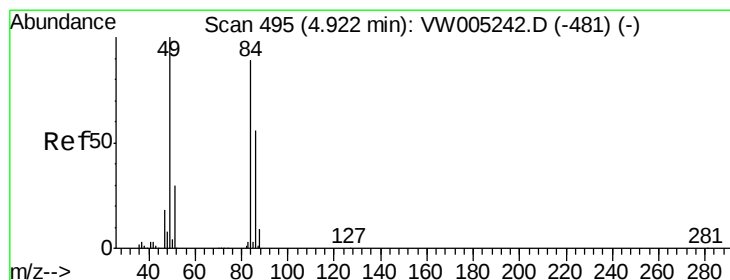
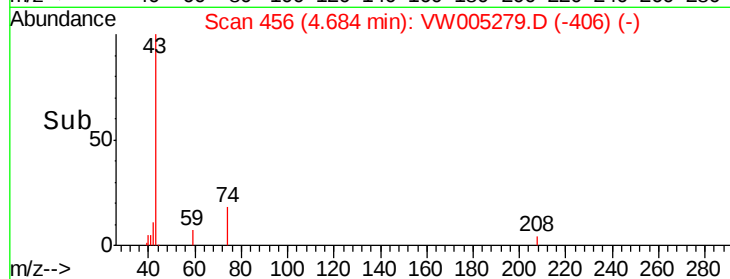
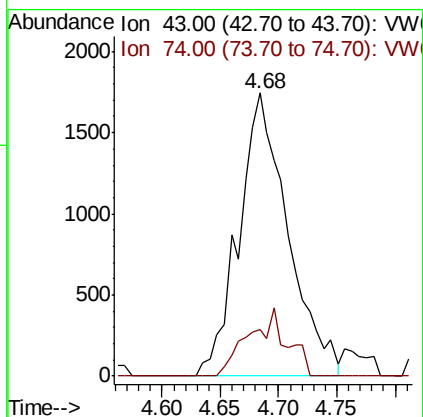
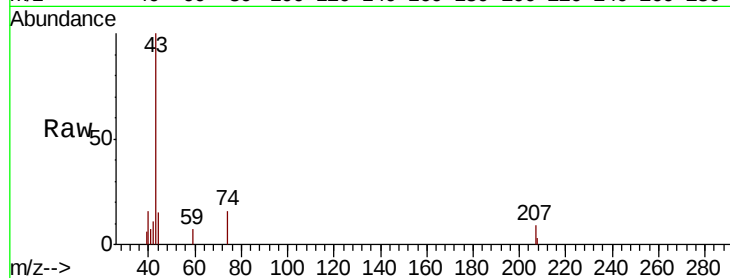




#18
Methyl Acetate
Concen: 2.480 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

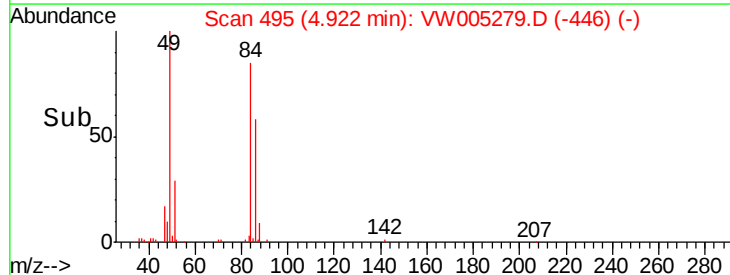
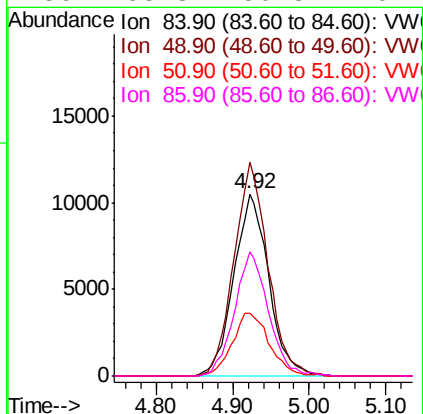
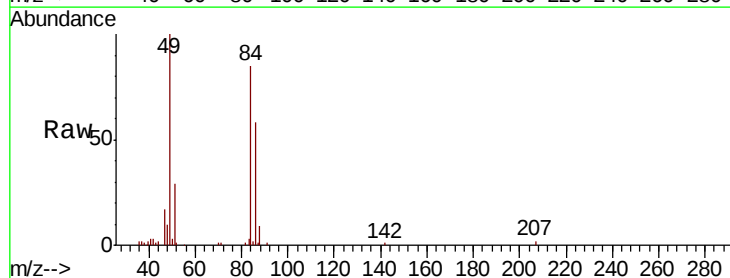
Instrument :
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ClientSampleId :
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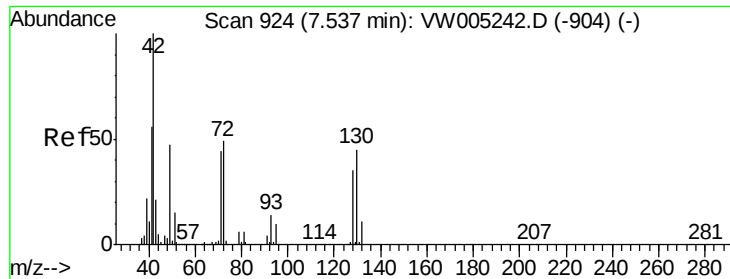
Tgt Ion: 43 Resp: 5116
Ion Ratio Lower Upper
43 100
74 18.7 21.4 32.2#



#20
Methylene Chloride
Concen: 3.402 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

Tgt Ion: 84 Resp: 33236
Ion Ratio Lower Upper
84 100
49 117.3 90.3 135.5
51 34.4 26.9 40.3
86 68.3 50.8 76.2

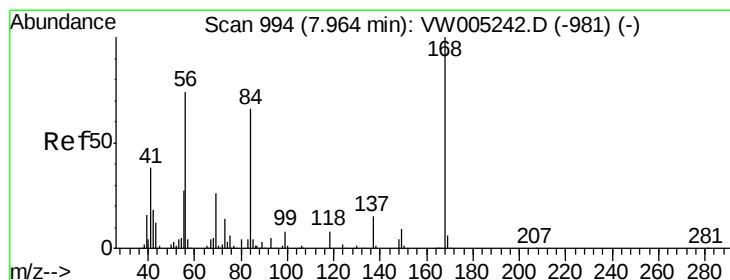
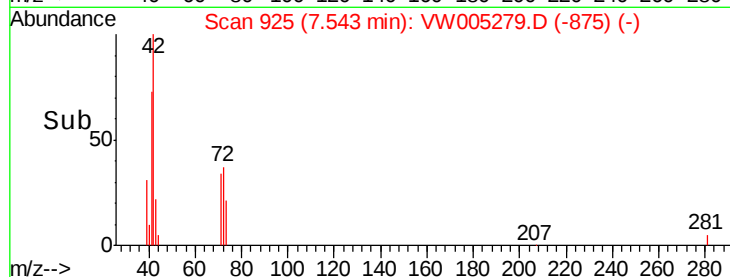
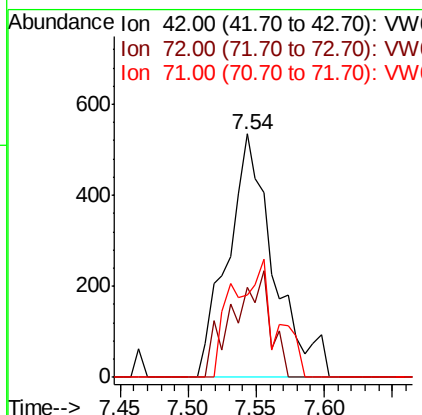
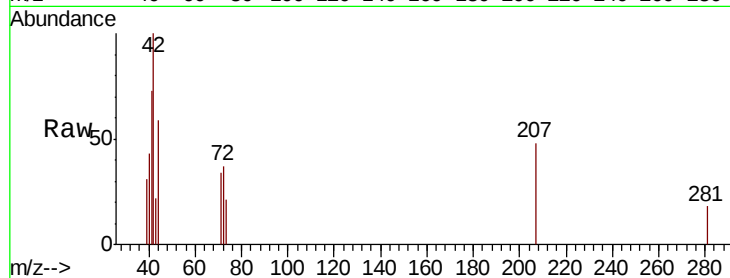




#29
Tetrahydrofuran
Concen: 1.714 ug/l
RT: 7.54 min Scan# 925
Delta R.T. 0.01 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

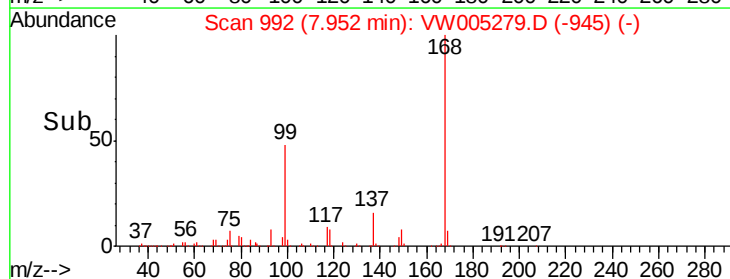
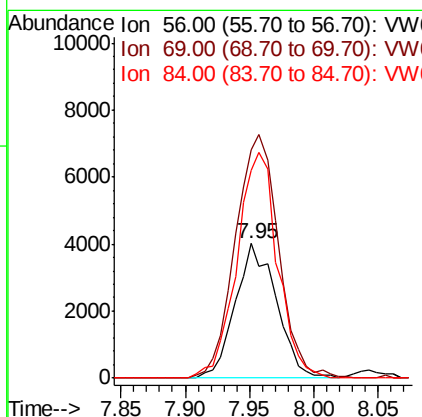
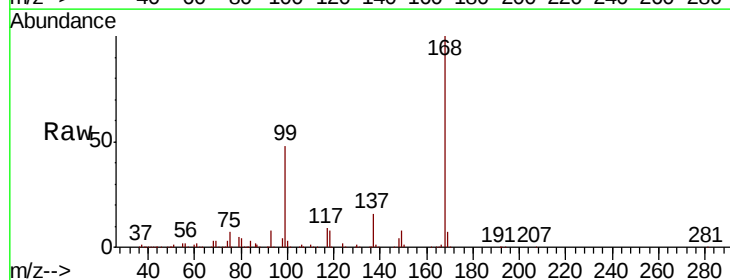
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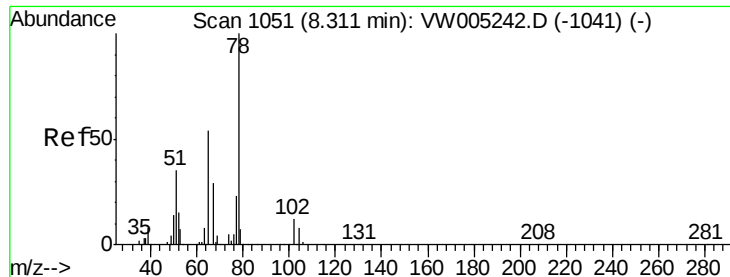
Tgt Ion: 42 Resp: 1259
Ion Ratio Lower Upper
42 100
72 35.7 37.5 56.3#
71 45.0 34.8 52.2



#31
Cyclohexane
Concen: 1.126 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

Tgt Ion: 56 Resp: 8967
Ion Ratio Lower Upper
56 100
69 169.6 27.8 41.8#
84 154.7 72.1 108.1#

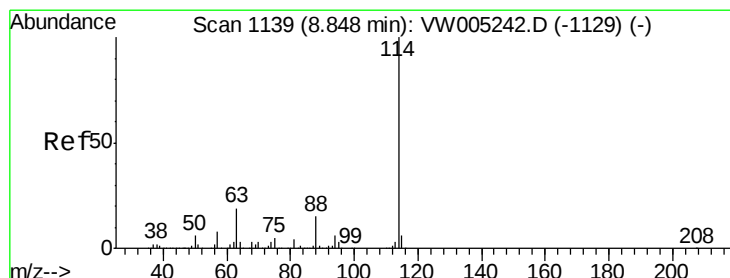
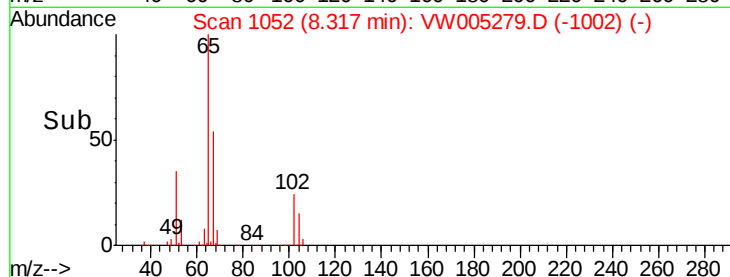
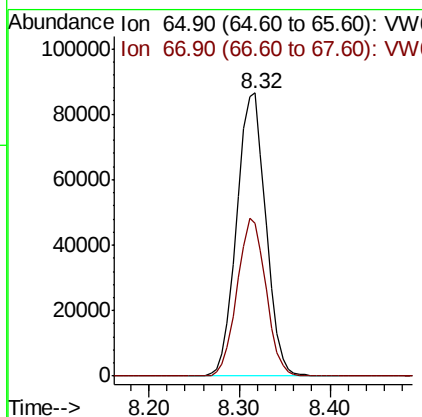
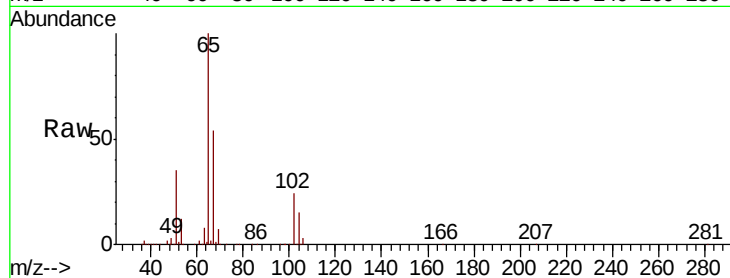




#33
 1,2-Dichloroethane-d4
 Concen: 51.765 ug/l
 RT: 8.32 min Scan# 1052
 Delta R.T. 0.01 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

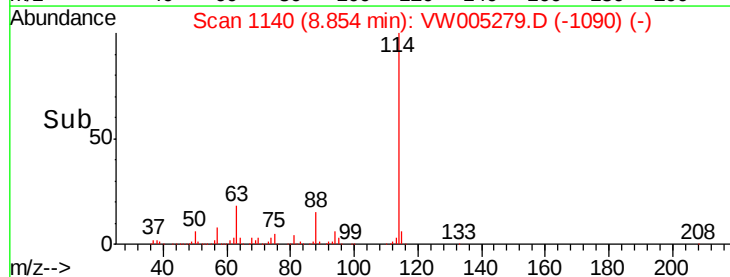
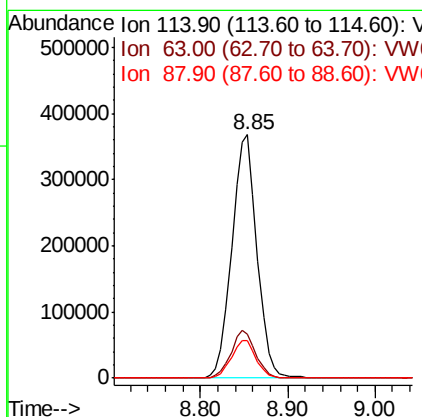
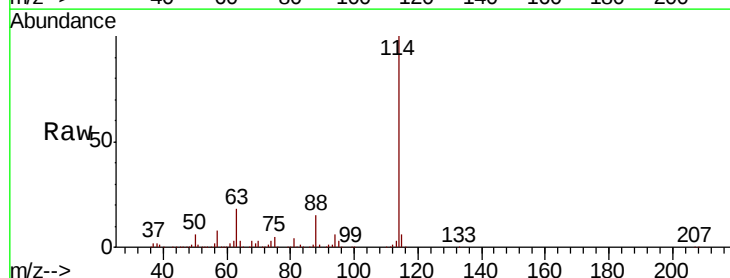
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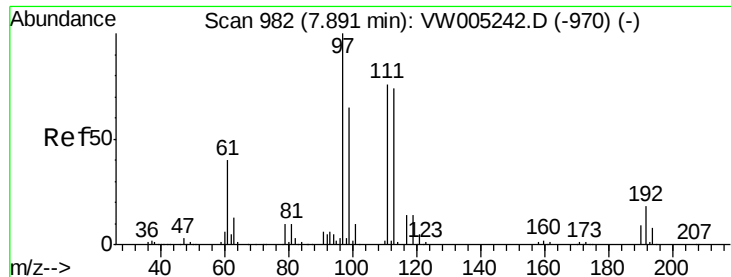
Tgt Ion: 65 Resp: 192731
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 112.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1140
 Delta R.T. 0.01 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

Tgt Ion: 114 Resp: 733846
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 37.0
 88 15.3 0.0 30.4





#35

Dibromofluoromethane

Concen: 45.604 ug/l

RT: 7.89 min Scan# 982

Delta R.T. -0.00 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :
MSVOA_W
ClientSampleId :
EP1-SUT-4USTS-N

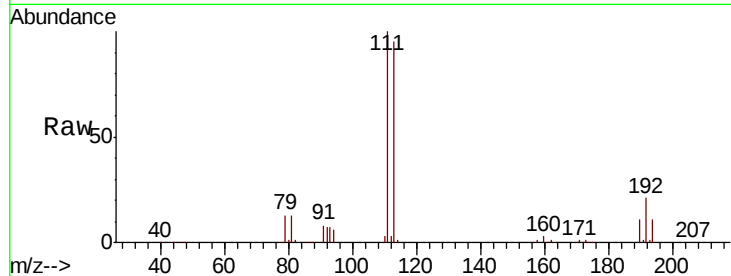
Tgt Ion:113 Resp: 175308

Ion Ratio Lower Upper

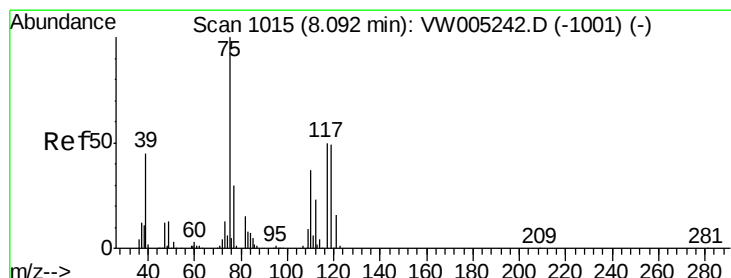
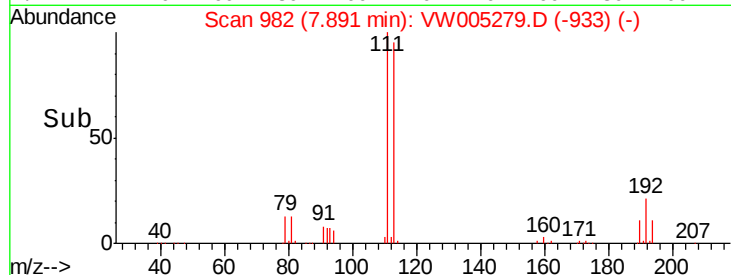
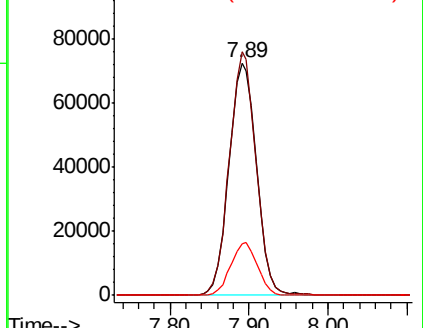
113 100

111 101.8 80.6 121.0

192 22.1 18.3 27.5



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: 4.884 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.14 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

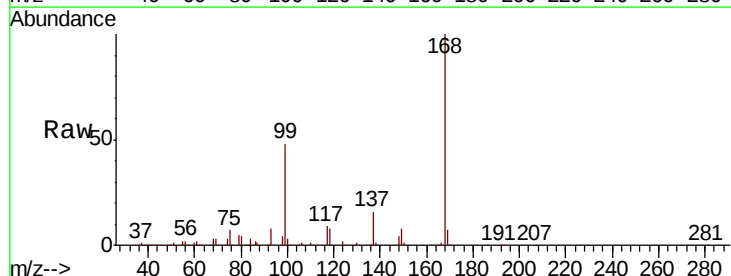
Tgt Ion: 75 Resp: 32837

Ion Ratio Lower Upper

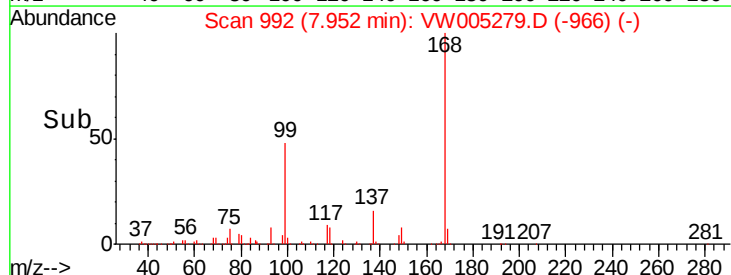
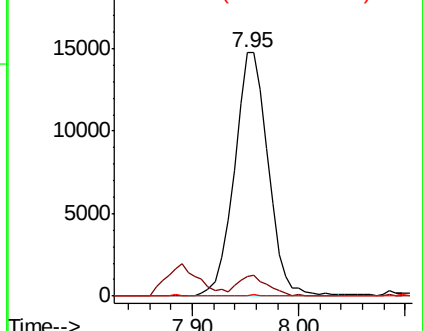
75 100

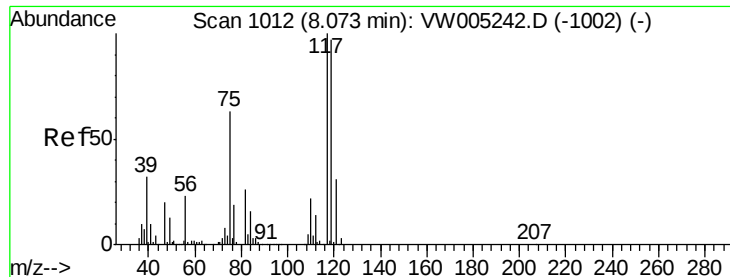
110 7.4 18.8 56.4#

77 0.1 24.9 37.3#



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: 6.917 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.12 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

EP1-SUT-4USTS-N

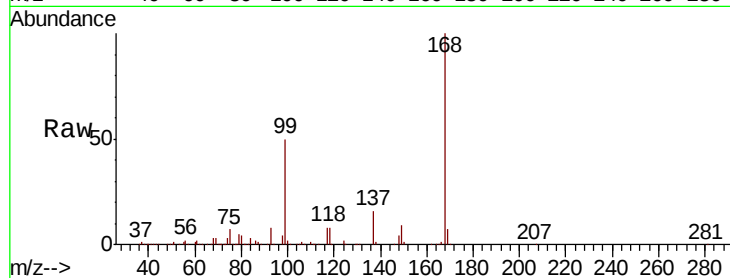
Tgt Ion:117 Resp: 43561

Ion Ratio Lower Upper

117 100

119 5.6 77.5 116.3#

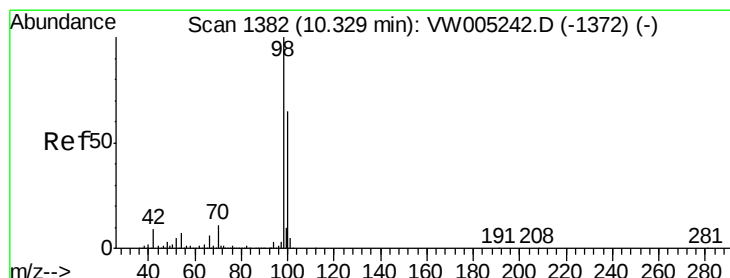
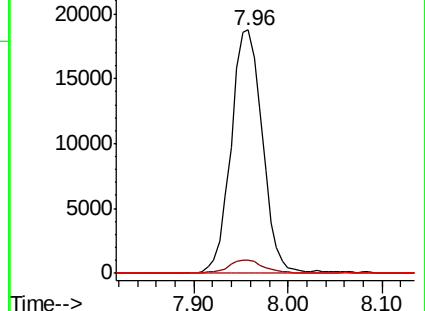
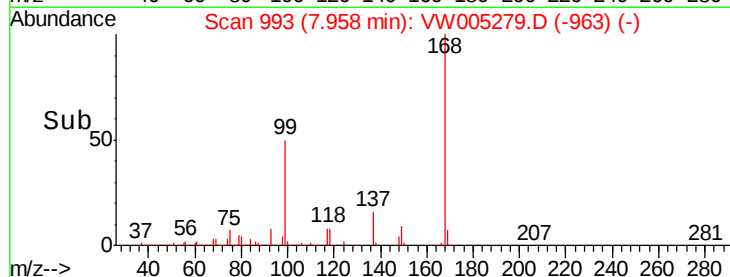
121 0.0 24.7 37.1#



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: 42.665 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005279.D

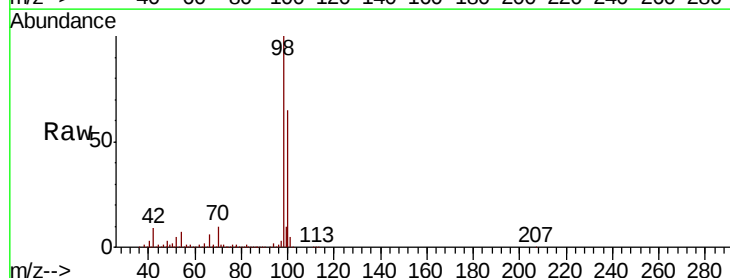
Acq: 11 Sep 2018 16:44

Tgt Ion: 98 Resp: 828778

Ion Ratio Lower Upper

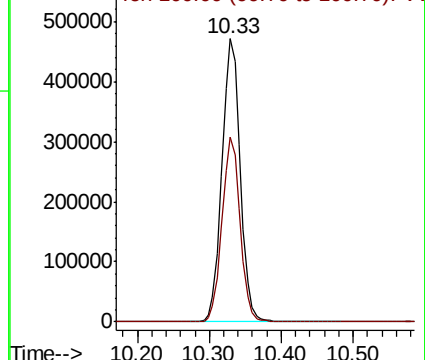
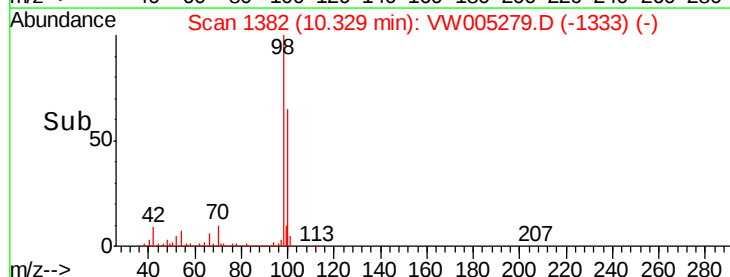
98 100

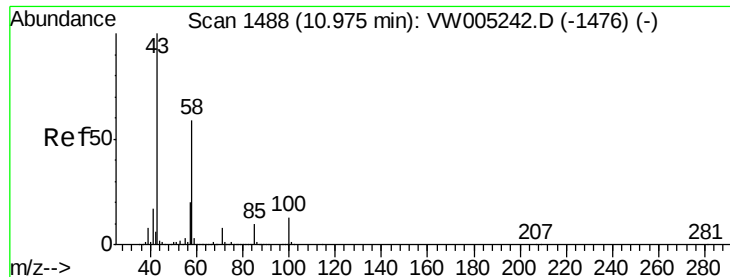
100 64.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

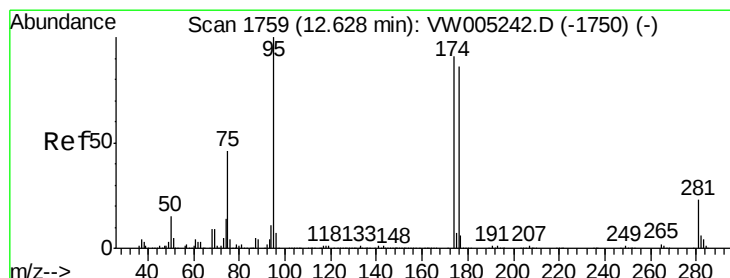
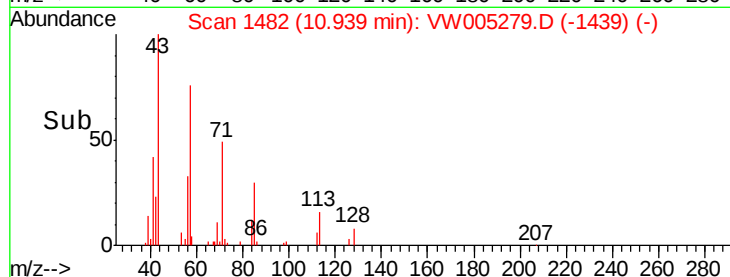
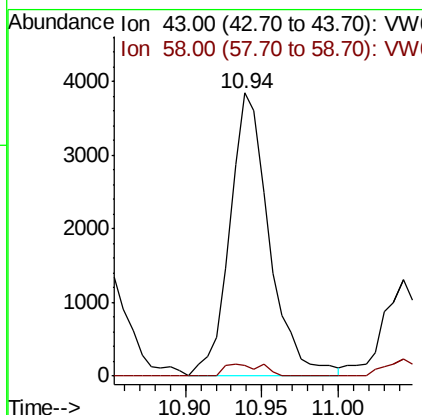
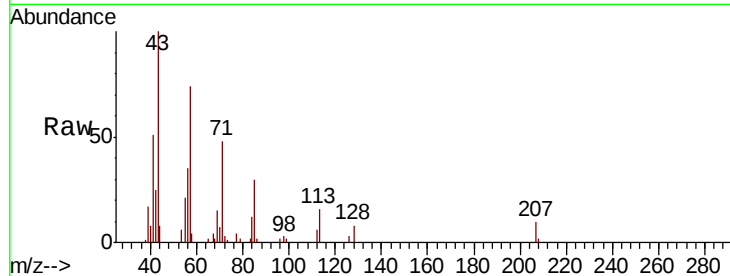




#59
 2-Hexanone
 Concen: 3.581 ug/l
 RT: 10.94 min Scan# 1482
 Delta R.T. -0.04 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

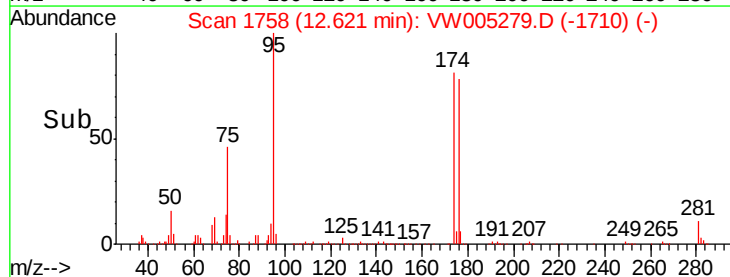
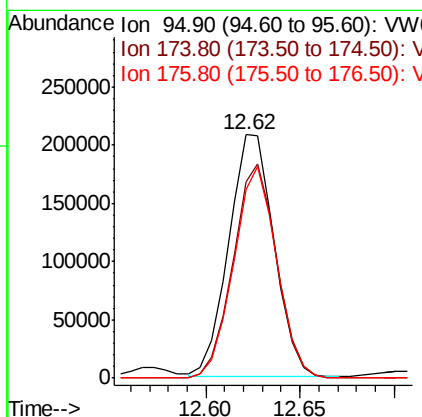
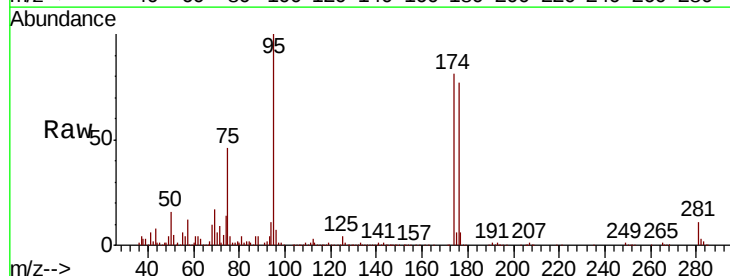
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-SUT-4USTS-N

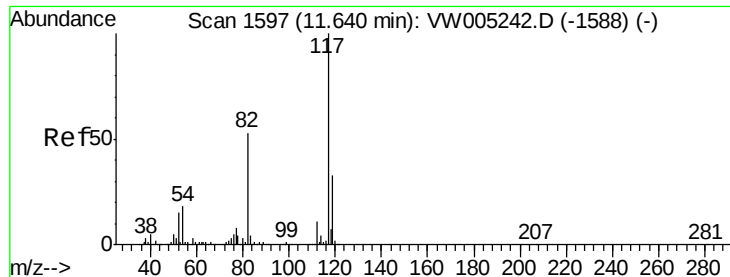
Tgt Ion: 43 Resp: 6899
 Ion Ratio Lower Upper
 43 100
 58 4.1 29.3 87.9#



#62
 4-Bromofluorobenzene
 Concen: 48.681 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.01 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

Tgt Ion: 95 Resp: 345887
 Ion Ratio Lower Upper
 95 100
 174 85.5 0.0 174.6
 176 83.1 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

EP1-SUT-4USTS-N

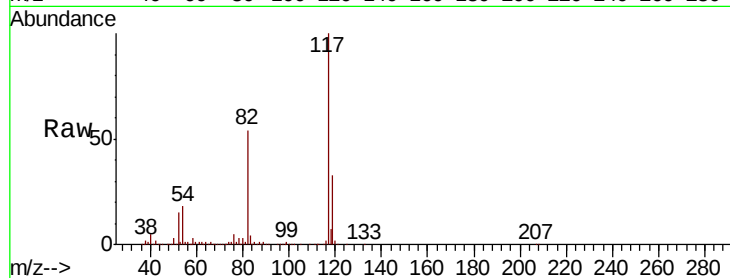
Tgt Ion:117 Resp: 785914

Ion Ratio Lower Upper

117 100

82 54.1 42.6 63.8

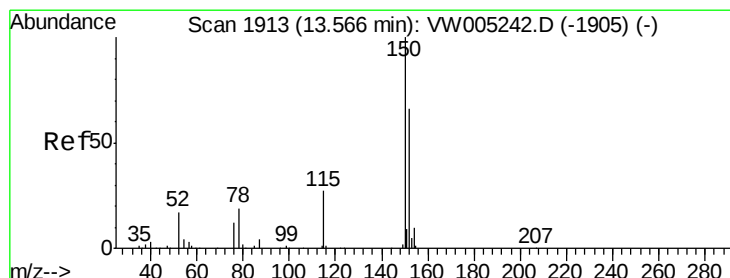
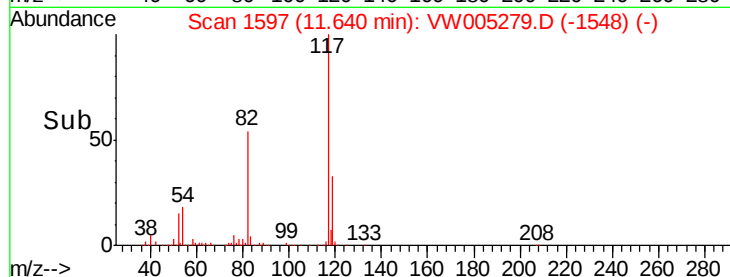
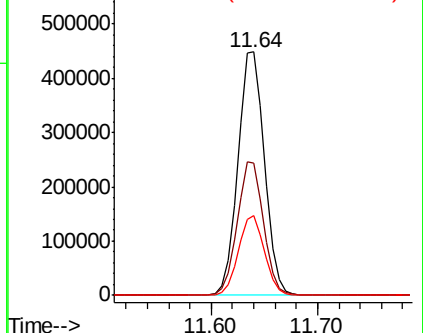
119 32.9 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

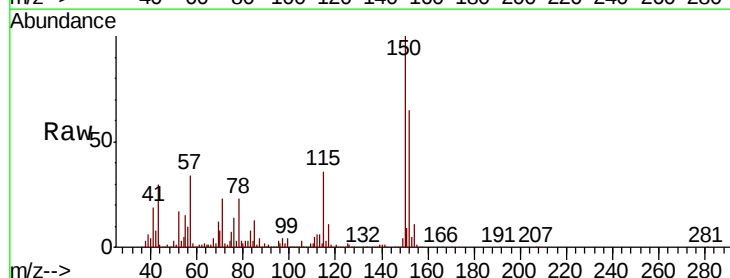
Tgt Ion:152 Resp: 421466

Ion Ratio Lower Upper

152 100

115 62.4 27.5 82.4

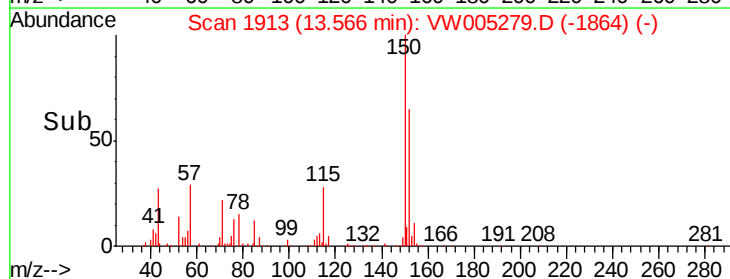
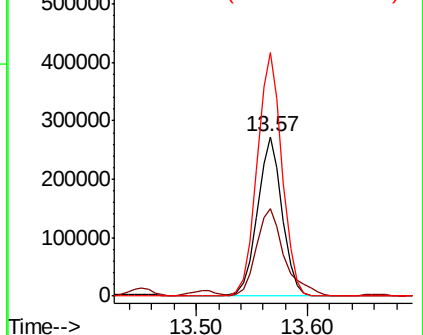
150 153.3 0.0 347.4

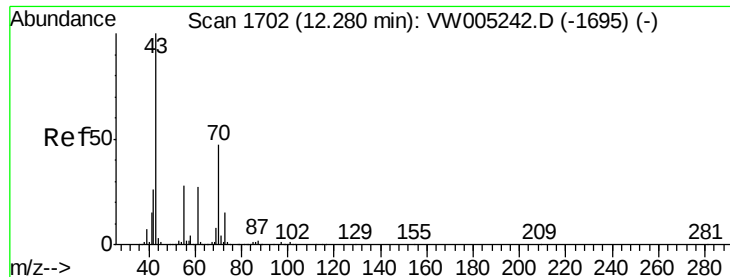


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 24.305 ug/l

RT: 12.26 min Scan# 1699

Delta R.T. -0.02 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

EP1-SUT-4USTS-N

Tgt Ion: 43 Resp: 137705

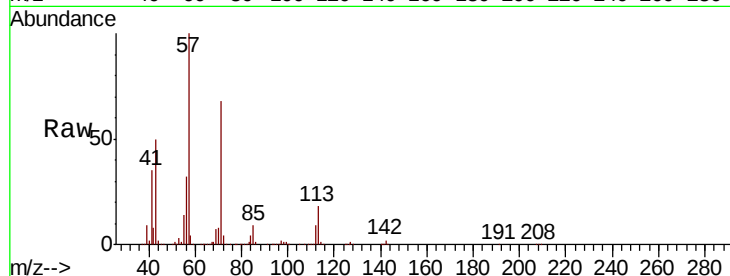
Ion Ratio Lower Upper

43 100

70 17.7 37.9 56.9#

55 29.4 22.6 33.8

61 0.0 20.9 31.3#



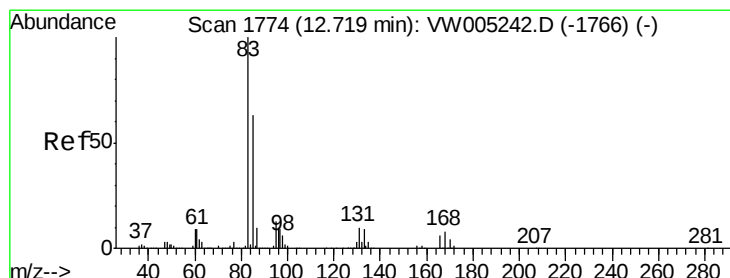
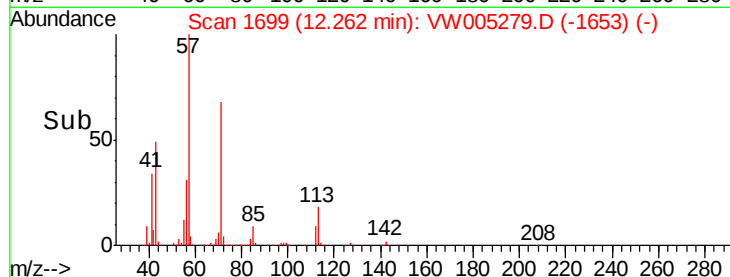
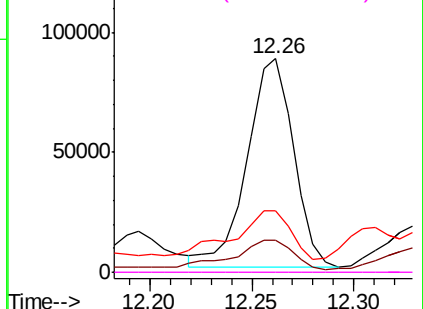
Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 1.493 ug/l

RT: 12.69 min Scan# 1770

Delta R.T. -0.02 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

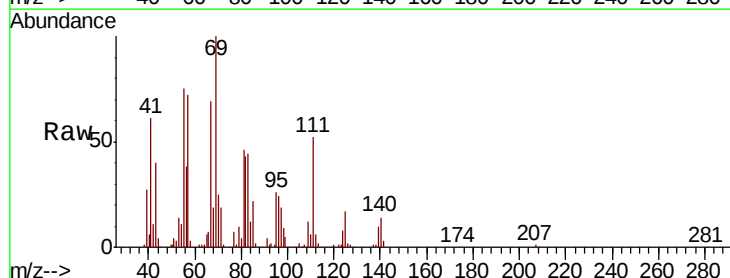
Tgt Ion: 83 Resp: 6683

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 166.9 31.6 95.0#

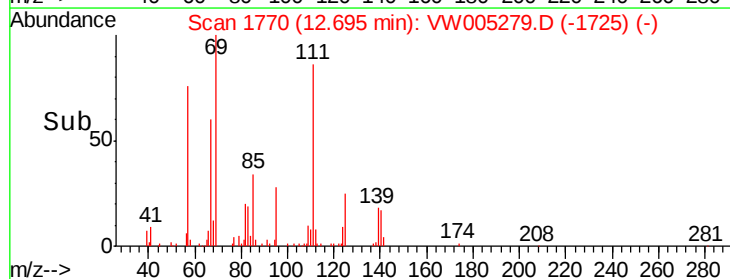
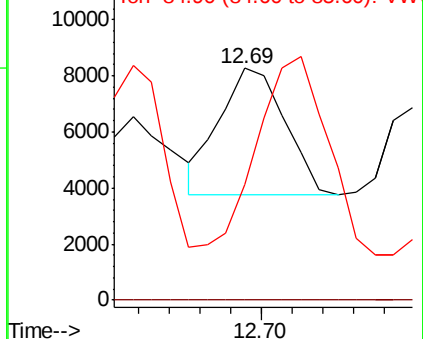


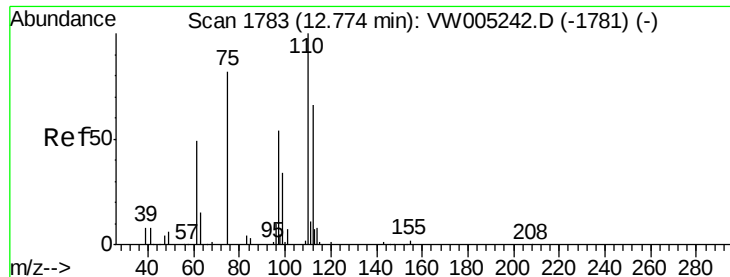
Abundance

Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 48.302 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

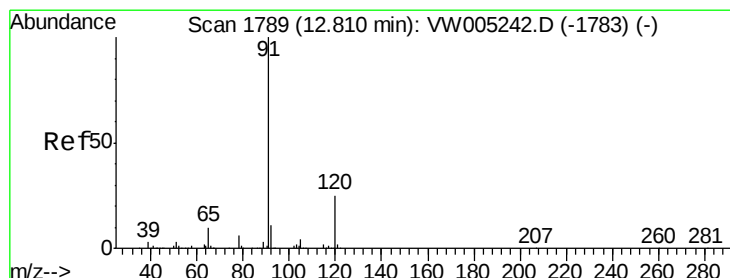
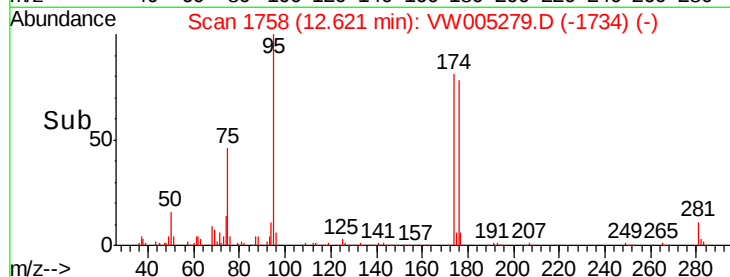
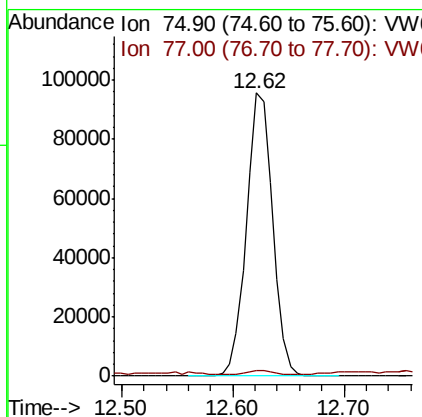
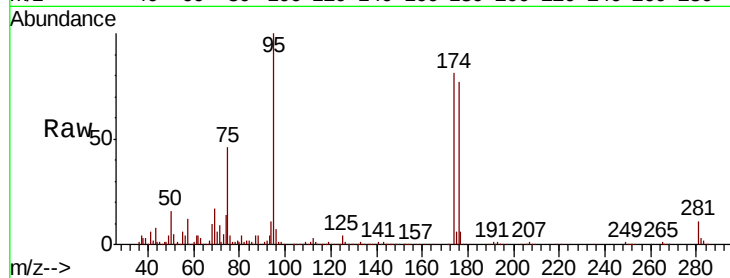
EP1-SUT-4USTS-N

Tgt Ion: 75 Resp: 156581

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#78

n-propylbenzene

Concen: 3.071 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005279.D

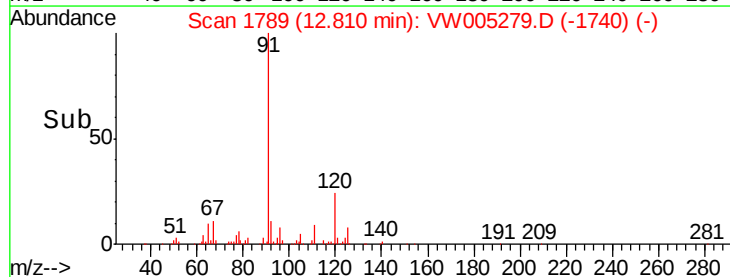
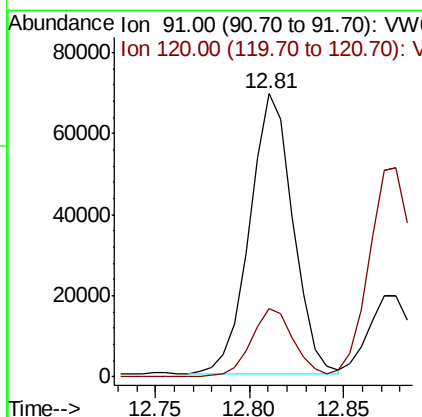
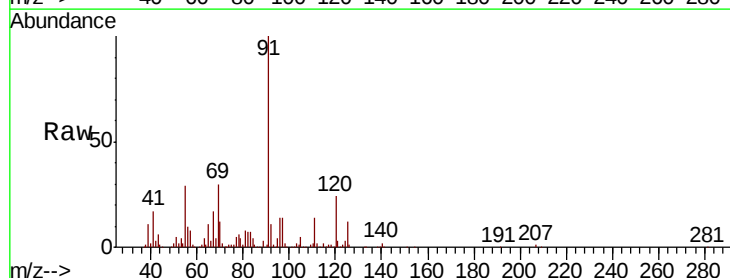
Acq: 11 Sep 2018 16:44

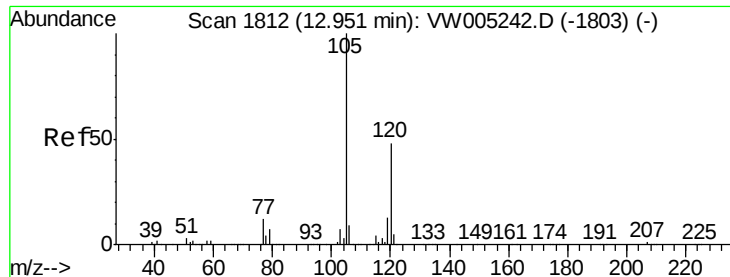
Tgt Ion: 91 Resp: 109821

Ion Ratio Lower Upper

91 100

120 23.7 12.0 36.0

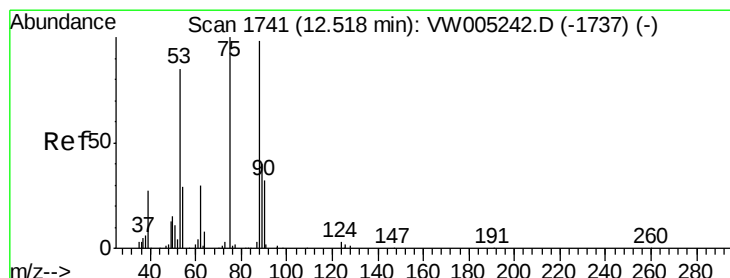
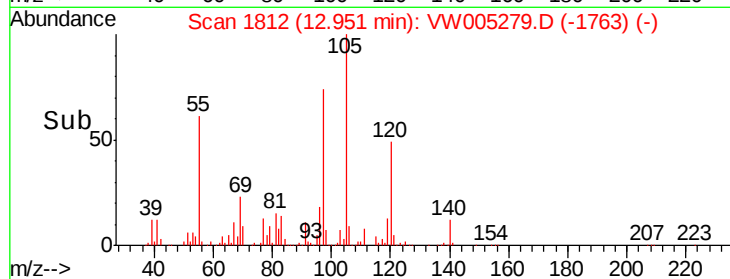
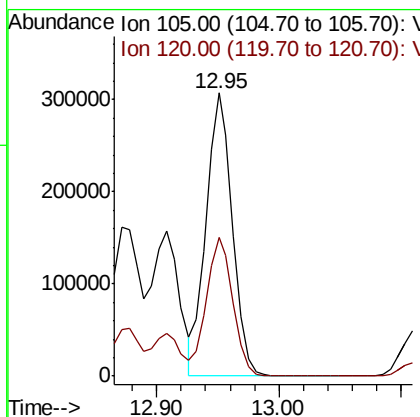
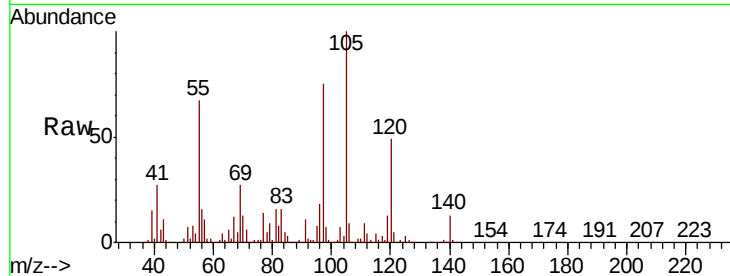




#80
 1,3,5-Trimethylbenzene
 Concen: 18.059 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

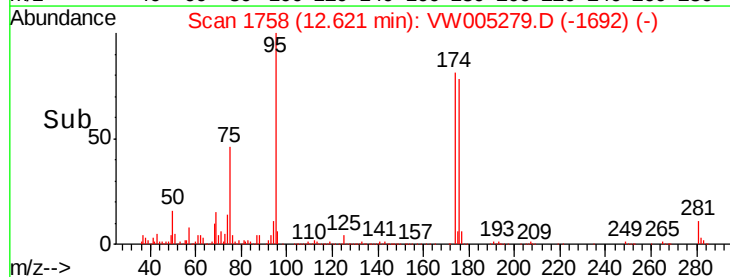
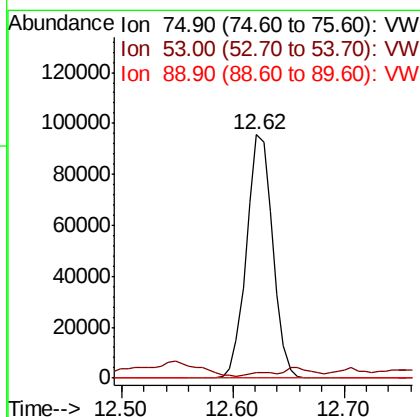
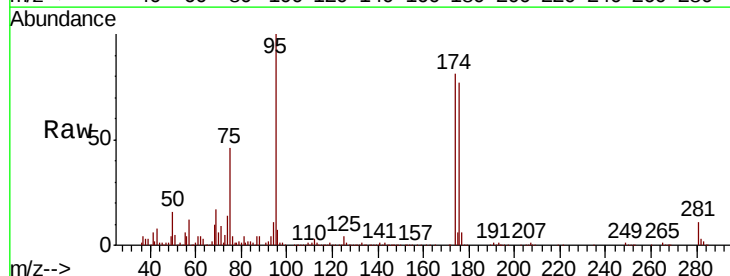
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-SUT-4USTS-N

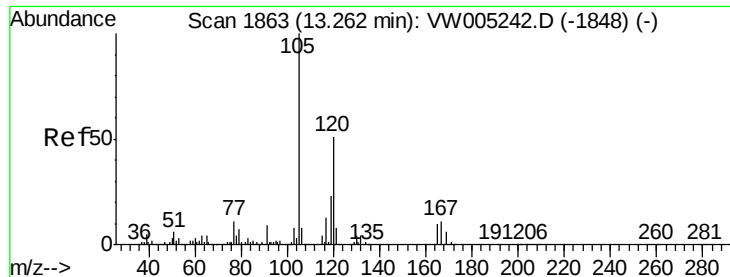
Tgt Ion:105 Resp: 457917
 Ion Ratio Lower Upper
 105 100
 120 49.4 24.4 73.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.279 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.10 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

Tgt Ion: 75 Resp: 156581
 Ion Ratio Lower Upper
 75 100
 53 1.4 67.0 100.6#
 89 0.0 37.0 55.4#

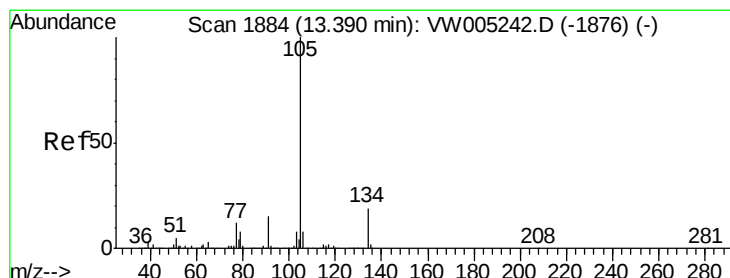
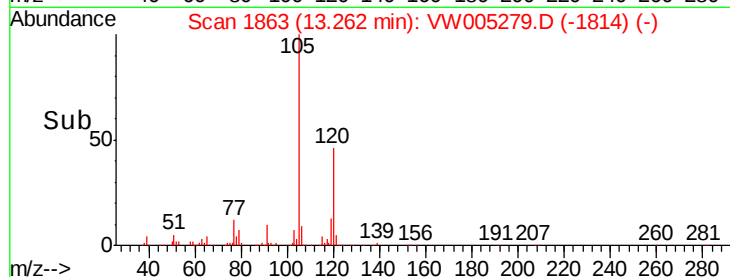
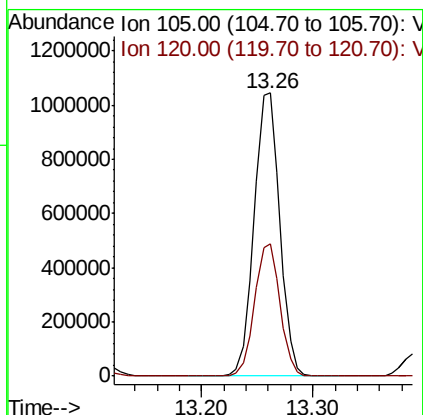
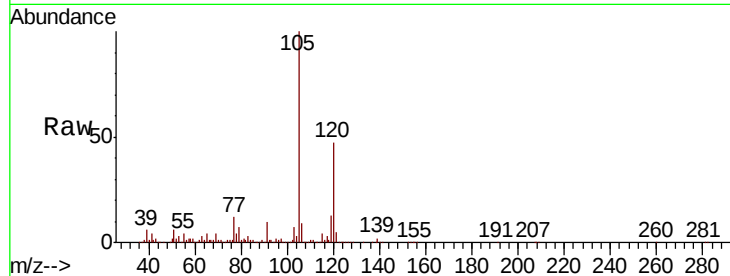




#84
 1,2,4-Trimethylbenzene
 Concen: 65.754 ug/l
 RT: 13.26 min Scan# 1863
 Delta R.T. -0.00 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

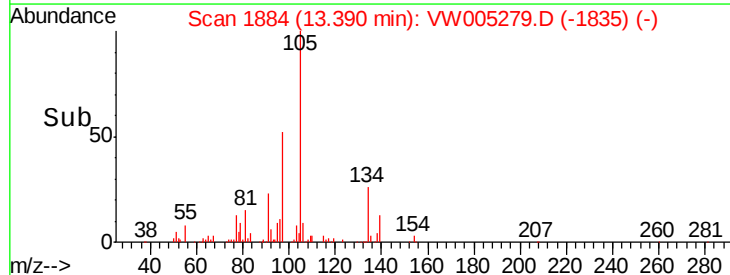
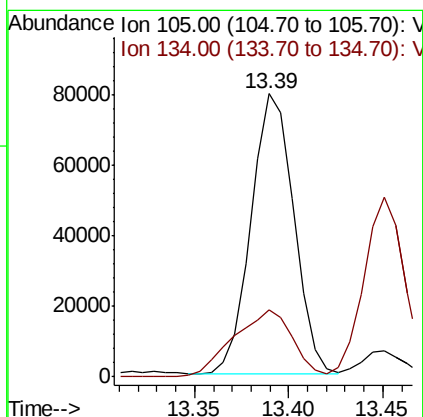
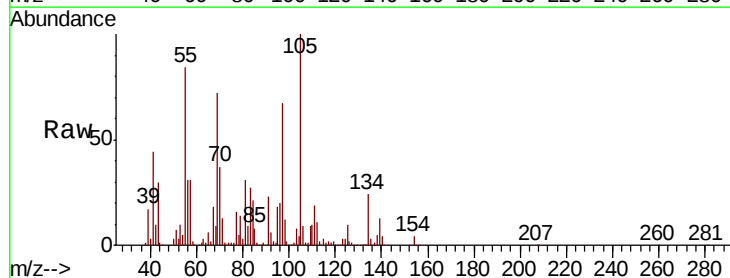
Instrument :
 MSVOA_W
 ClientSampleId :
 EP1-SUT-4USTS-N

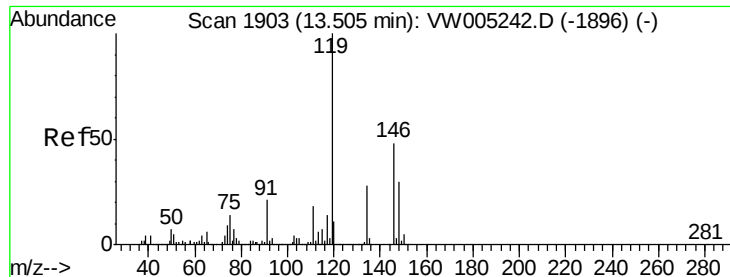
Tgt Ion:105 Resp: 1675480
 Ion Ratio Lower Upper
 105 100
 120 46.6 23.4 70.3



#85
 sec-Butylbenzene
 Concen: 3.922 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005279.D
 Acq: 11 Sep 2018 16:44

Tgt Ion:105 Resp: 124994
 Ion Ratio Lower Upper
 105 100
 134 32.6 9.9 29.7#

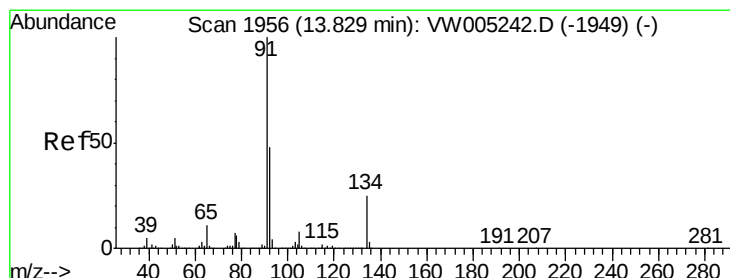
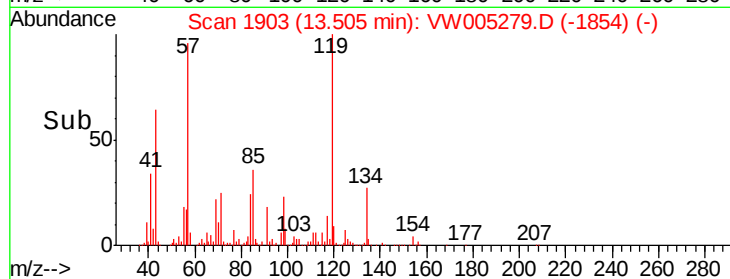
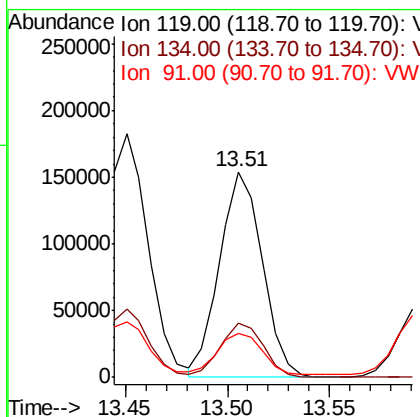
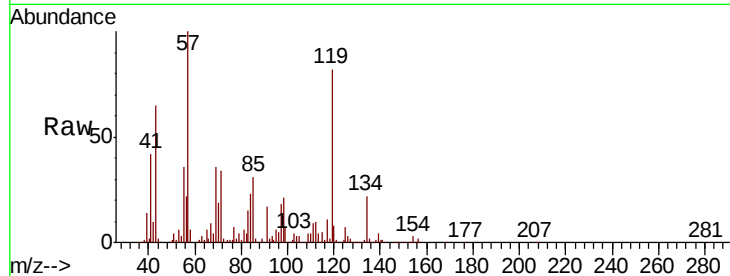




#86
p-Isopropyltoluene
Concen: 7.898 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. -0.00 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

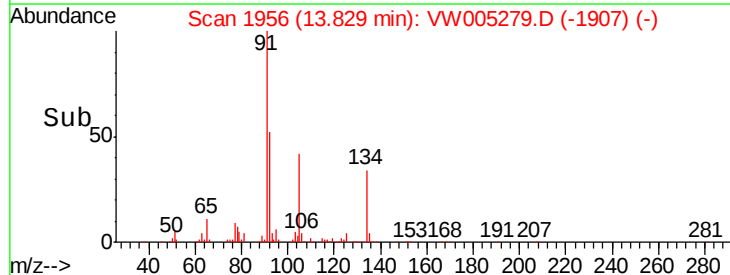
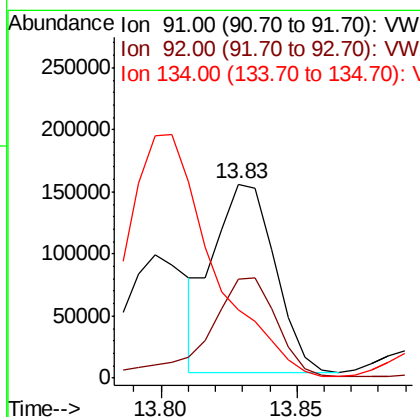
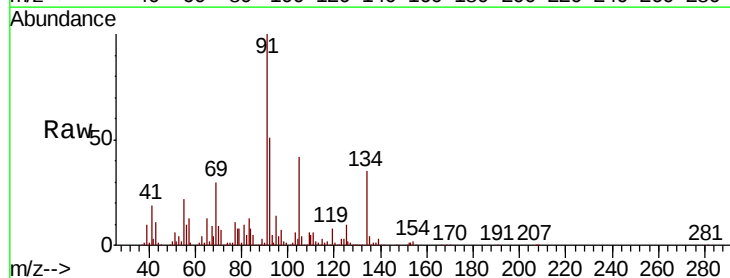
Instrument :
MSVOA_W
ClientSampleId :
EP1-SUT-4USTS-N

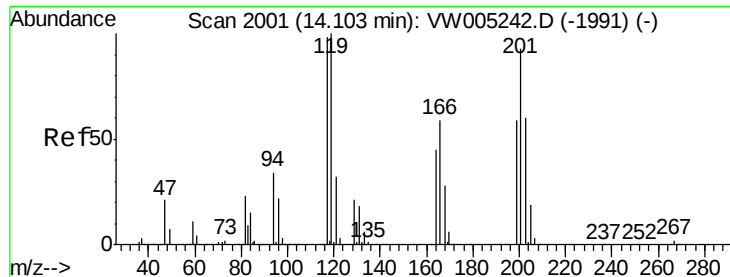
Tgt Ion: 119 Resp: 222841
Ion Ratio Lower Upper
119 100
134 26.3 13.2 39.5
91 21.1 10.7 32.1



#89
n-Butylbenzene
Concen: 8.961 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

Tgt Ion: 91 Resp: 237688
Ion Ratio Lower Upper
91 100
92 58.6 25.8 77.3
134 0.0 13.6 40.8#





#90

Hexachloroethane

Concen: 15.068 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

Instrument :

MSVOA_W

ClientSampleId :

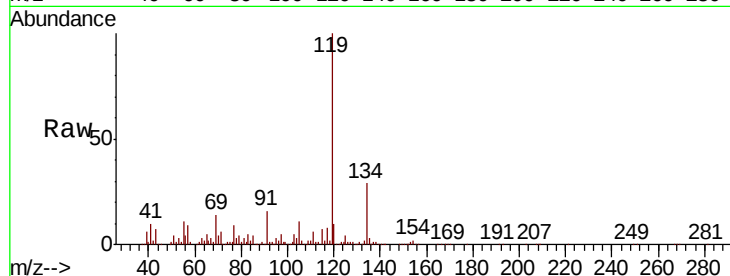
EP1-SUT-4USTS-N

Tgt Ion:117 Resp: 68116

Ion Ratio Lower Upper

117 100

201 0.1 44.0 132.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

60000

50000

40000

30000

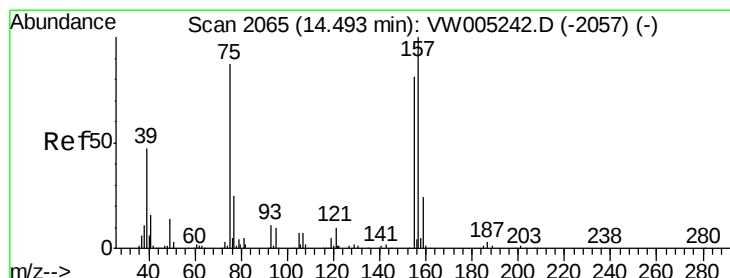
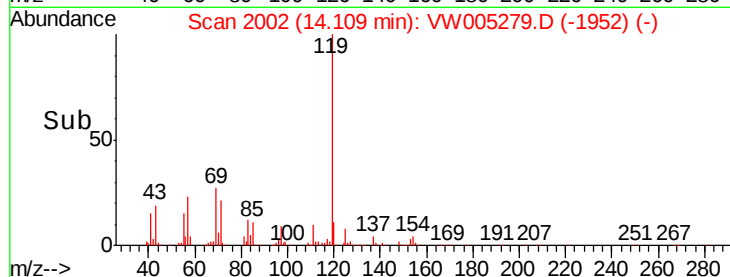
20000

10000

0

14.05 14.10 14.15

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.427 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.01 min

Lab File: VW005279.D

Acq: 11 Sep 2018 16:44

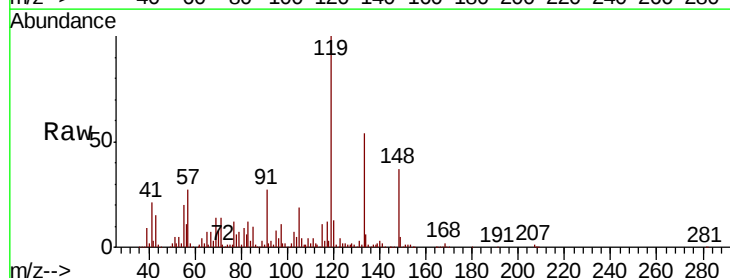
Tgt Ion: 75 Resp: 1062

Ion Ratio Lower Upper

75 100

155 27.1 47.4 142.2#

157 0.0 59.4 178.2#



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

3000

2500

2000

1500

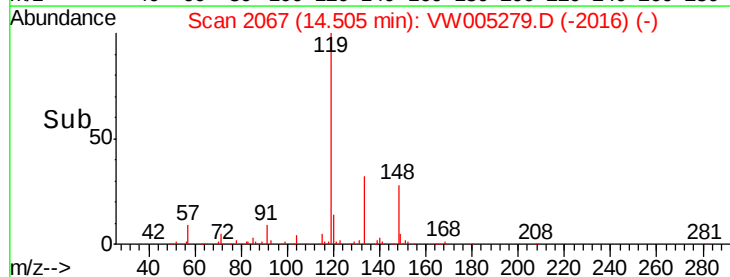
1000

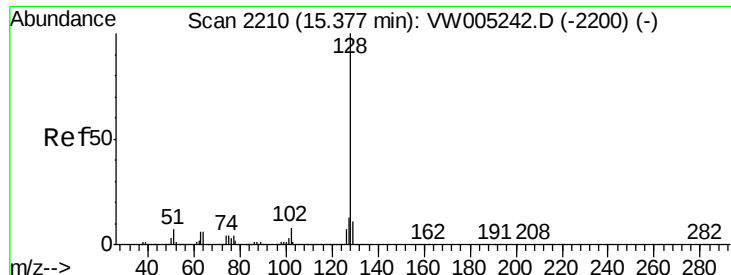
500

0

14.48 14.50 14.52 14.54

Time-->





#95
Naphthalene
Concen: 23.303 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW005279.D
Acq: 11 Sep 2018 16:44

Instrument :
MSVOA_W
ClientSampleId :
EP1-SUT-4USTS-N

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.8	13.2

