

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112219\
 Data File : VY000786.D
 Acq On : 22 Nov 2019 12:28
 Operator : SY/MD
 Sample : K5671-11
 Misc : 5.75G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-02-112119

Quant Time: Nov 23 04:01:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y103019S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 13:30:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	29701	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	53630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	42191	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	18536	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.16	65	18098	58.88	ug/l	0.00
Spiked Amount			Recovery	=	117.76%	
35) Dibromofluoromethane	7.74	113	14207	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	
50) Toluene-d8	10.18	98	59813	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
62) 4-Bromofluorobenzene	12.48	95	19564	43.02	ug/l	0.00
Spiked Amount			Recovery	=	86.04%	

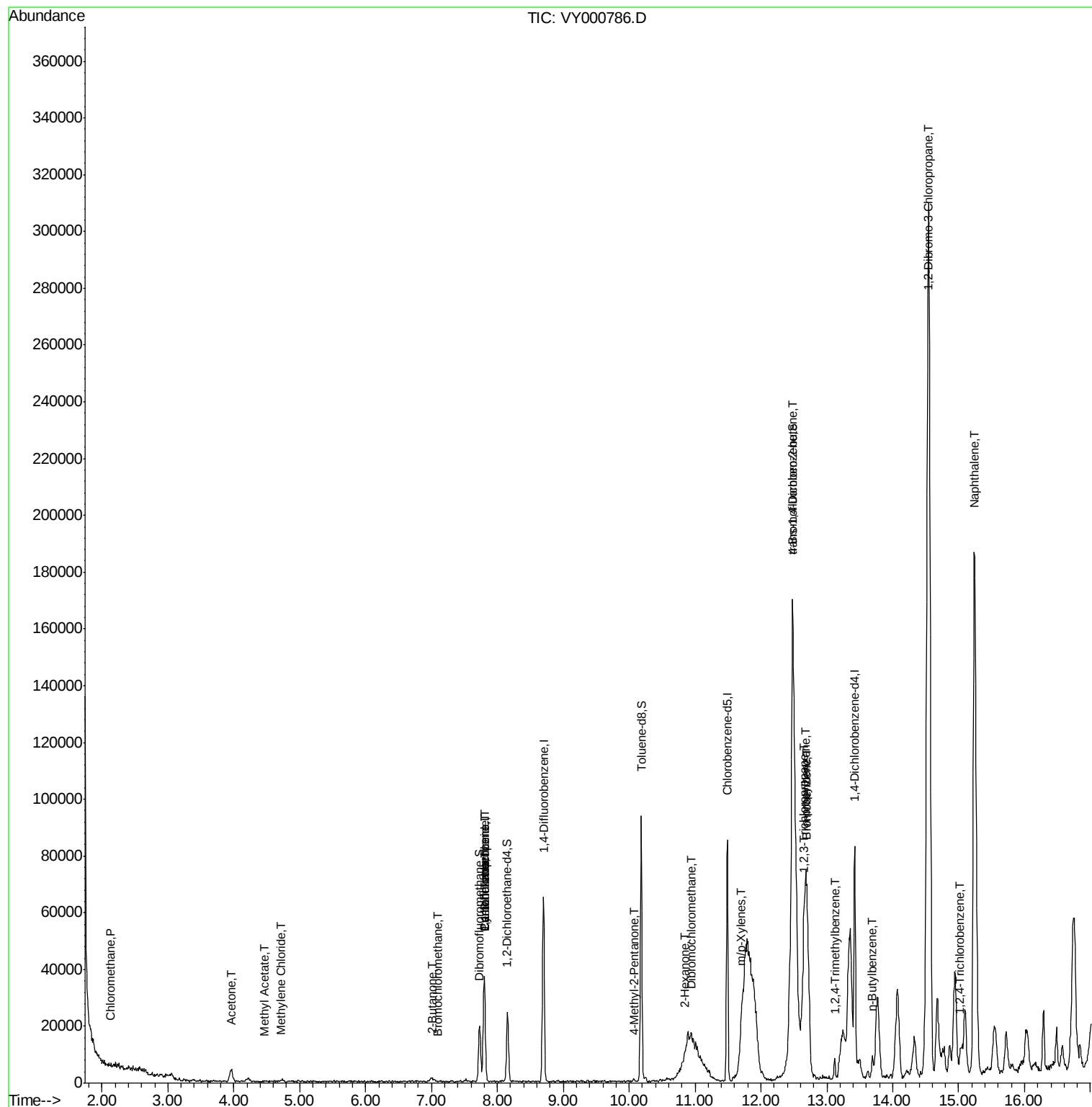
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.12	50	428	1.063	ug/l #	43
16) Acetone	3.97	43	7992	94.341	ug/l #	82
18) Methyl Acetate	4.47	43	341	1.295	ug/l #	51
20) Methylene Chloride	4.71	84	655	1.804	ug/l #	59
25) 2-Butanone	7.02	43	685	5.067	ug/l #	49
28) Bromochloromethane	7.08	49	28	4.192	ug/l #	1
31) Cyclohexane	7.80	56	704	1.183	ug/l #	42
36) 1,1-Dichloropropene	7.80	75	2588	5.105	ug/l #	47
38) Carbon Tetrachloride	7.80	117	2779	5.697	ug/l #	11
51) 4-Methyl-2-Pentanone	10.08	43	426	1.417	ug/l	95
59) 2-Hexanone	10.84	43	559	2.552	ug/l	83
60) Dibromochloromethane	10.96	129	454	1.362	ug/l	61
68) m/p-Xylenes	11.69	106	946	1.553	ug/l	83
76) 1,2,3-Trichloropropane	12.65	75	479	2.270	ug/l #	100
77) Bromobenzene	12.70	156	89993	289.680	ug/l #	1
78) n-propylbenzene	12.67	91	2187	1.323	ug/l	83
81) trans-1,4-Dichloro-2-buten	12.48	75	13847	147.101	ug/l #	20
84) 1,2,4-Trimethylbenzene	13.12	105	4194	3.692	ug/l	100
89) n-Butylbenzene	13.70	91	1415	1.160	ug/l	80
92) 1,2-Dibromo-3-Chloropropan	14.55	75	23289	485.127	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.00	180	542	1.442	ug/l	66
95) Naphthalene	15.23	128	45479	54.498	ug/l	96

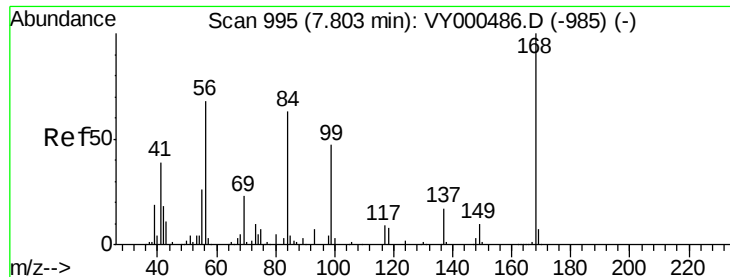
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 30 13:30:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

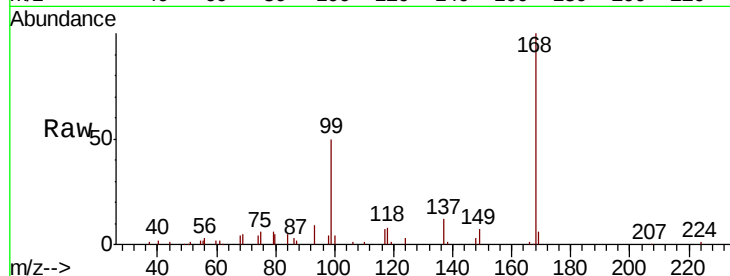
OR-02-112119

Tot Ion:168 Resp: 29701

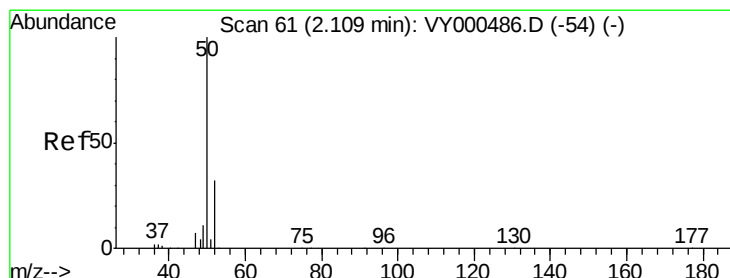
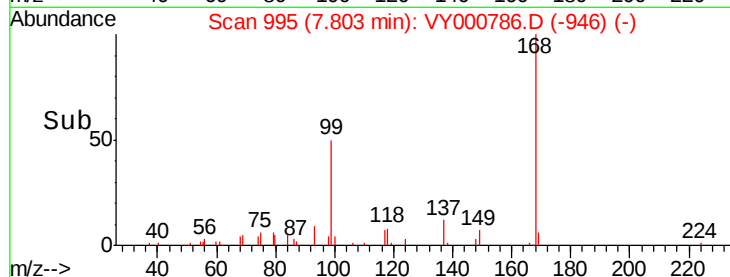
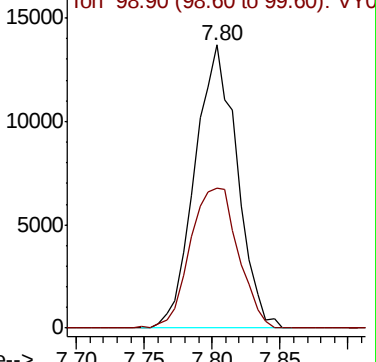
Ion Ratio Lower Upper

168 100

99 49.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VY000786.D (-985) (-)



#3

Chloromethane

Concen: 1.063 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY000786.D

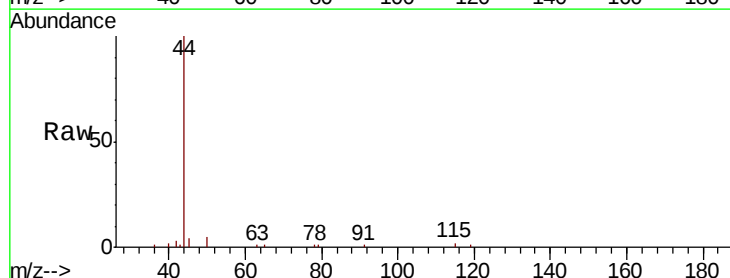
Acq: 22 Nov 2019 12:28

Tgt Ion: 50 Resp: 428

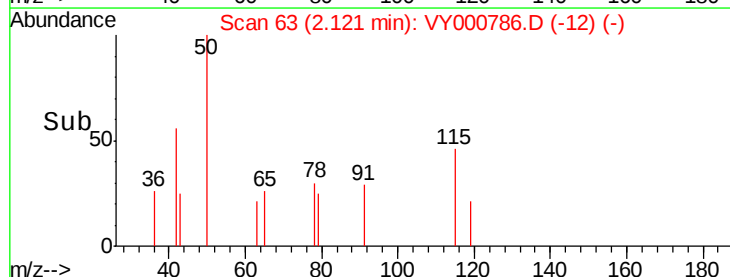
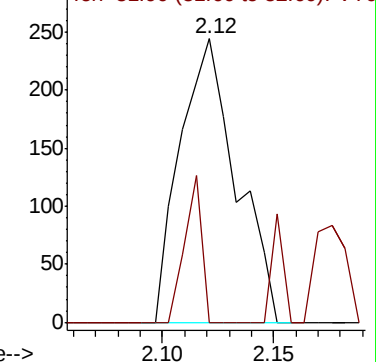
Ion Ratio Lower Upper

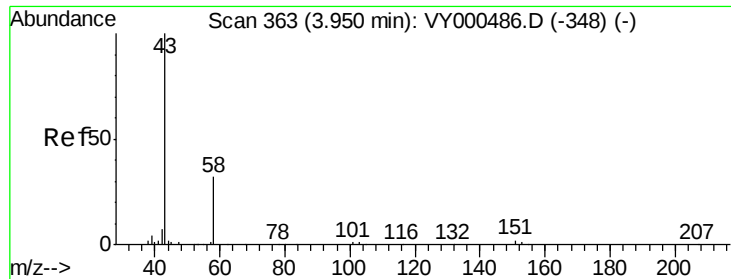
50 100

52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VY000786.D (-12) (-)





#16

Acetone

Concen: 94.341 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.02 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

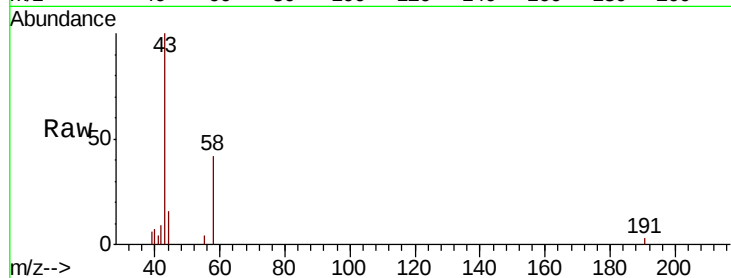
OR-02-112119

Tot Ion: 43 Resp: 7992

Ion Ratio Lower Upper

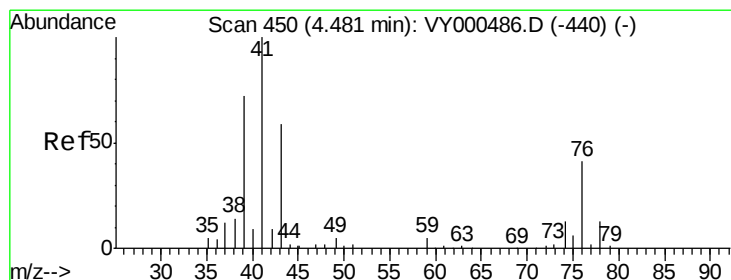
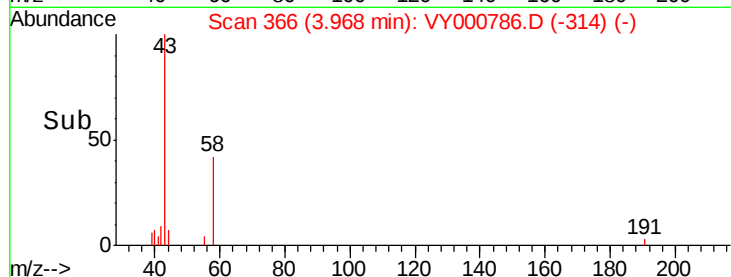
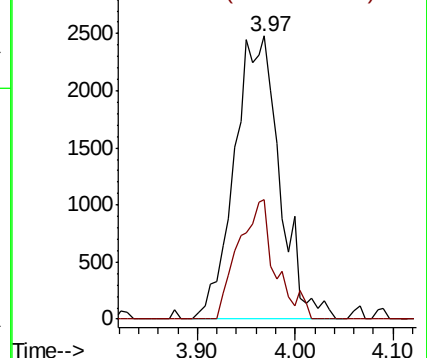
43 100

58 42.4 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#18

Methyl Acetate

Concen: 1.295 ug/l

RT: 4.47 min Scan# 449

Delta R.T. -0.01 min

Lab File: VY000786.D

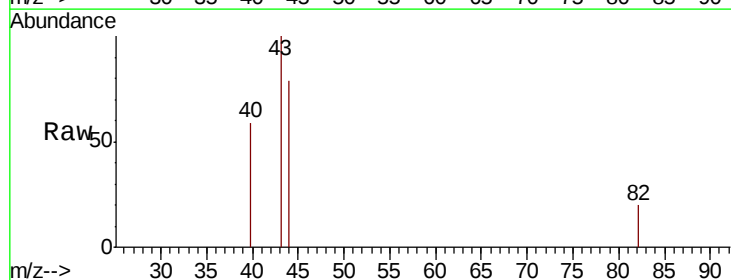
Acq: 22 Nov 2019 12:28

Tgt Ion: 43 Resp: 341

Ion Ratio Lower Upper

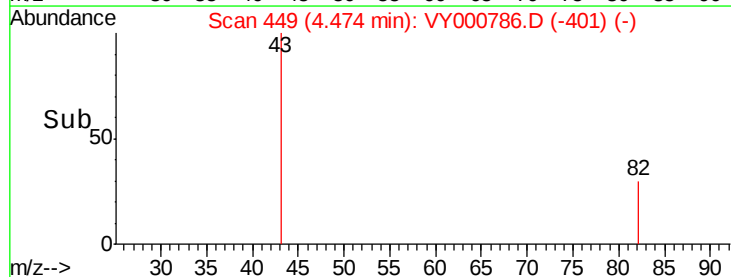
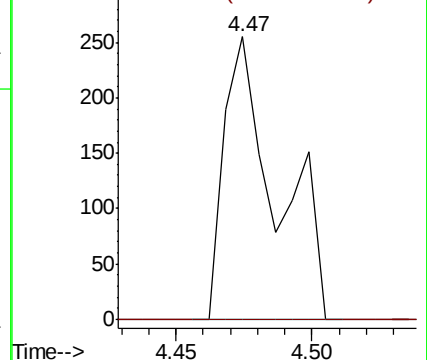
43 100

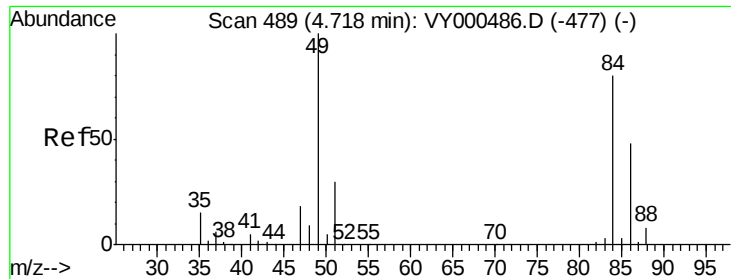
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

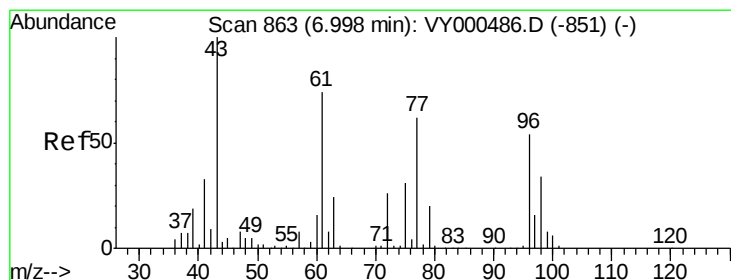
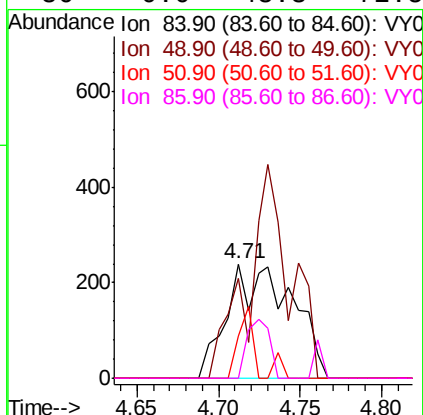
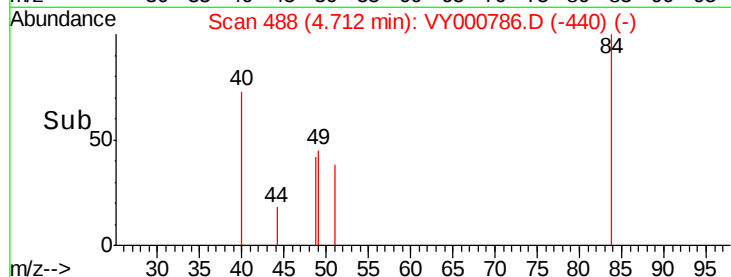
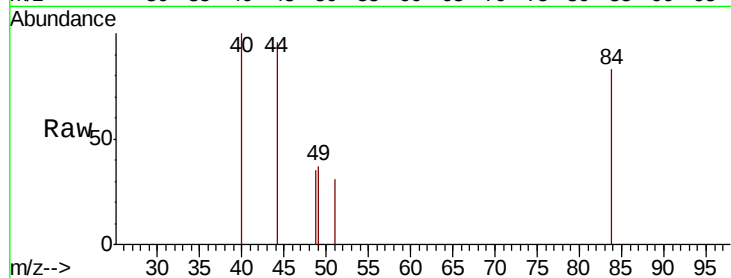




#20
Methvlene Chloride
Concen: 1.804 ug/l
RT: 4.71 min Scan# 488
Delta R.T. -0.01 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

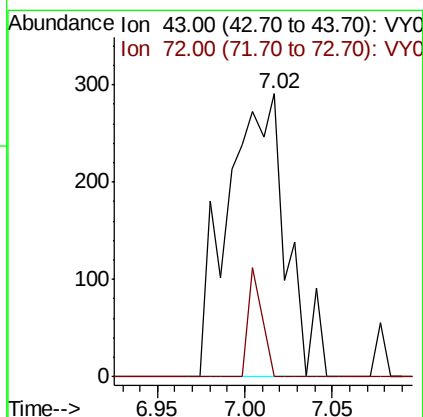
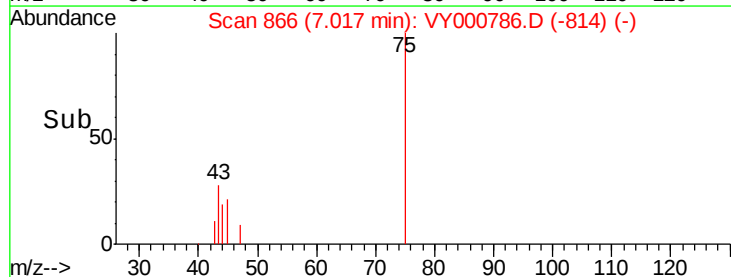
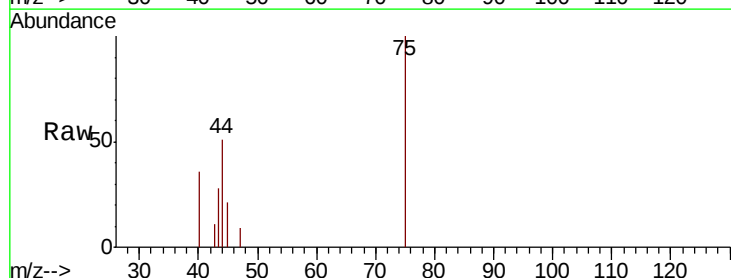
Instrument :
MSVOA_Y
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OR-02-112119

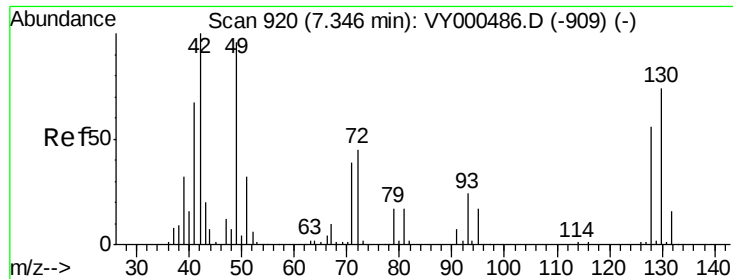
Tot Ion: 84 Resp: 655
Ion Ratio Lower Upper
84 100
49 86.7 100.2 150.4#
51 37.5 29.6 44.4
86 0.0 48.3 72.5#



#25
2-Butanone
Concen: 5.067 ug/l
RT: 7.02 min Scan# 866
Delta R.T. 0.02 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

Tgt Ion: 43 Resp: 685
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#





#28

Bromochloromethane

Concen: 4.192 ug/l

RT: 7.08 min Scan# 877

Delta R.T. -0.26 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-112119

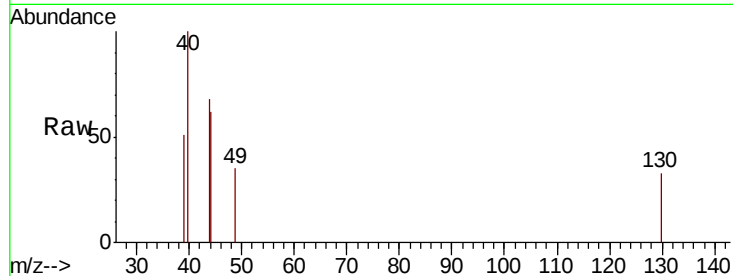
Tot Ion: 49 Resp: 28

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

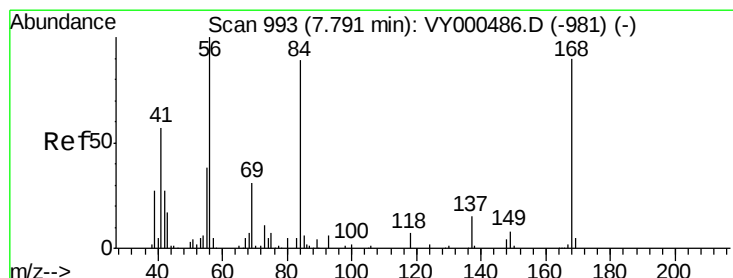
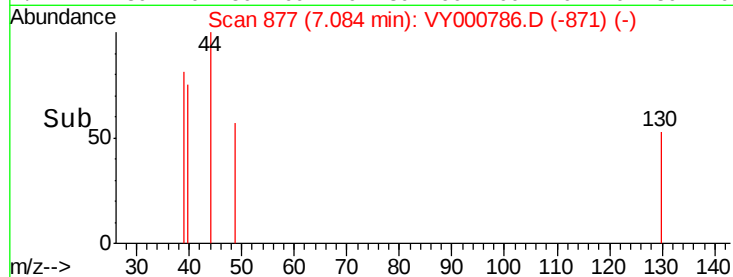
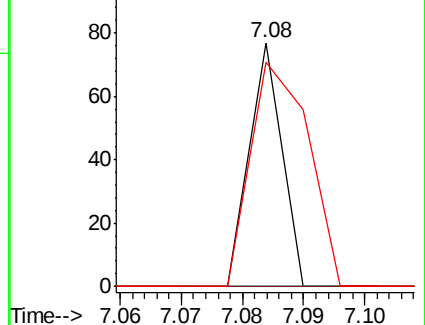
130 164.3 59.4 89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): VY0

Ion 129.80 (129.50 to 130.50): VY0



#31

Cyclohexane

Concen: 1.183 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

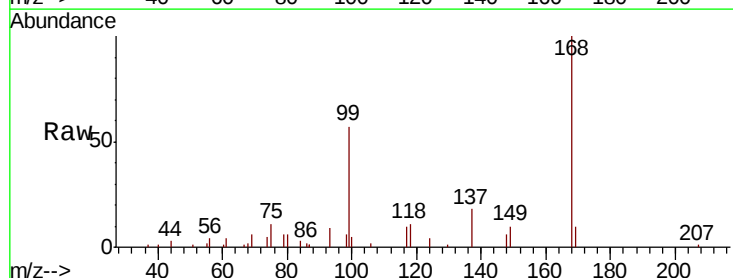
Tgt Ion: 56 Resp: 704

Ion Ratio Lower Upper

56 100

69 121.5 25.0 37.6#

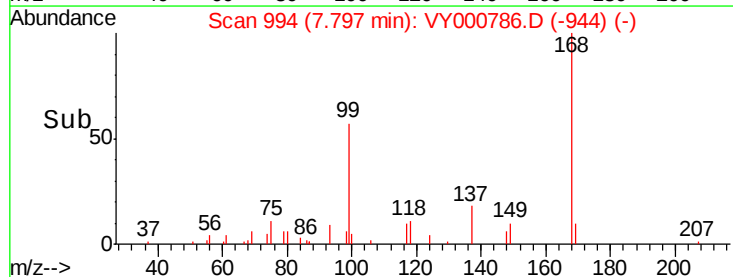
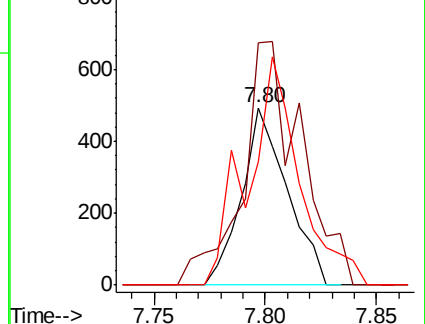
84 69.4 71.4 107.2#

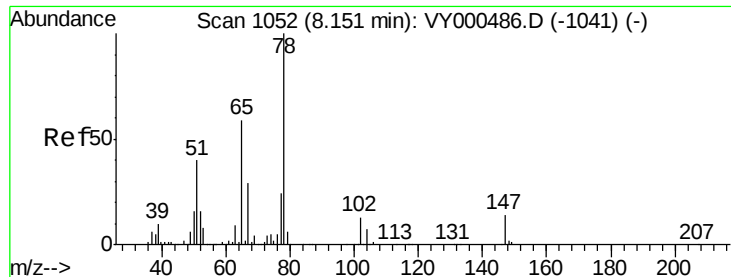


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 58.881 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

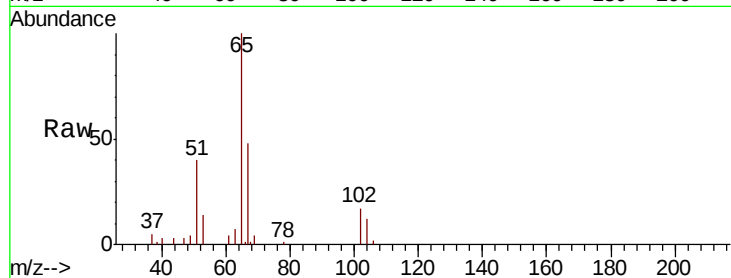
OR-02-112119

Tot Ion: 65 Resp: 18098

Ion Ratio Lower Upper

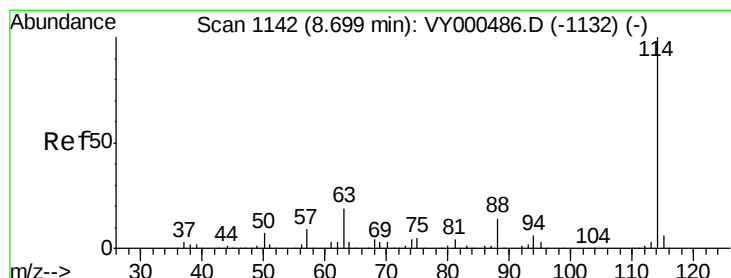
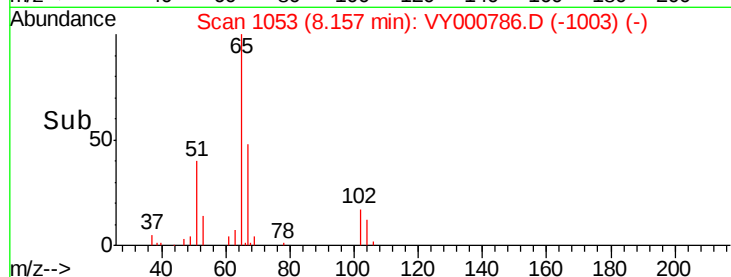
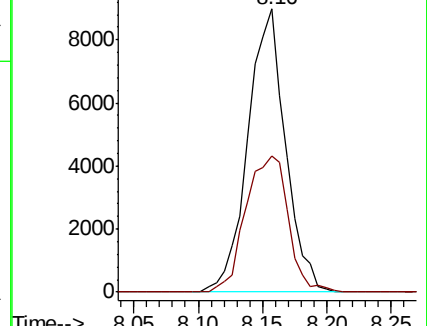
65 100

67 54.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

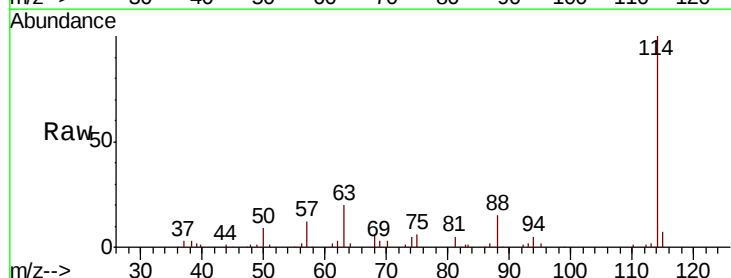
Tgt Ion:114 Resp: 53630

Ion Ratio Lower Upper

114 100

63 20.1 0.0 38.0

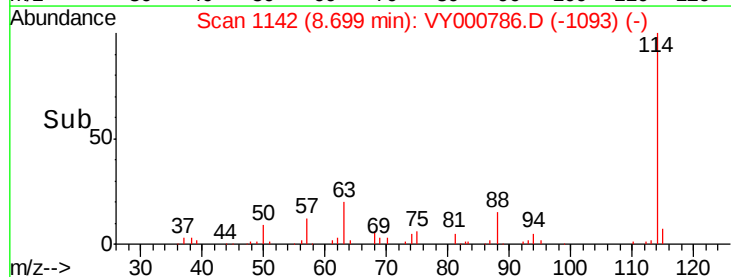
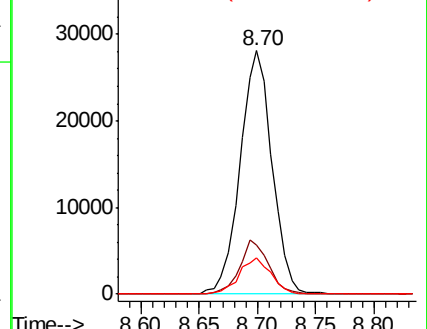
88 14.6 0.0 28.6

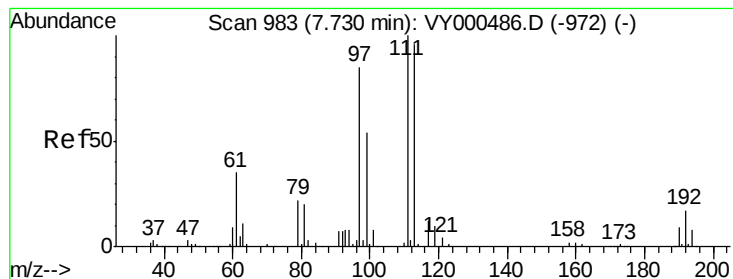


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0





#35

Dibromofluoromethane

Concen: 45.124 ug/l

RT: 7.74 min Scan# 984

Delta R.T. 0.01 min

Lab File: VY000786.D

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OR-02-112119

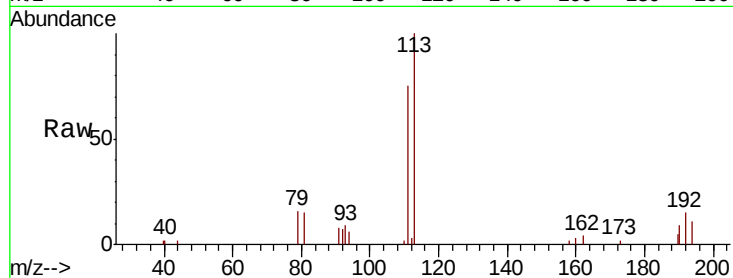
Tot Ion:113 Resp: 14207

Ion Ratio Lower Upper

113 100

111 94.7 81.7 122.5

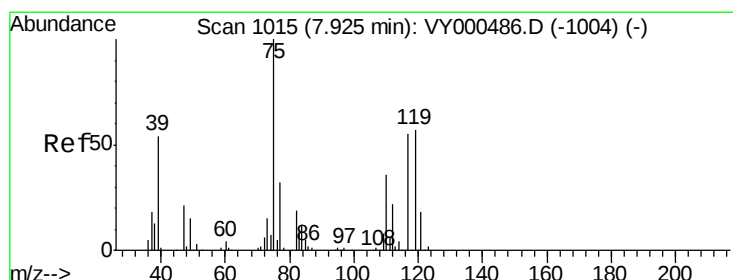
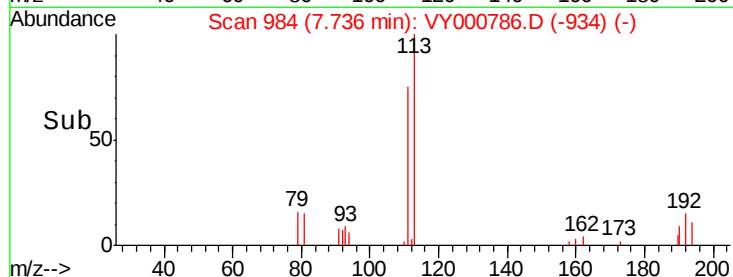
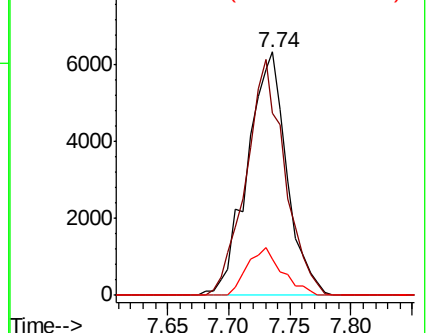
192 17.4 15.0 22.4



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: 5.105 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

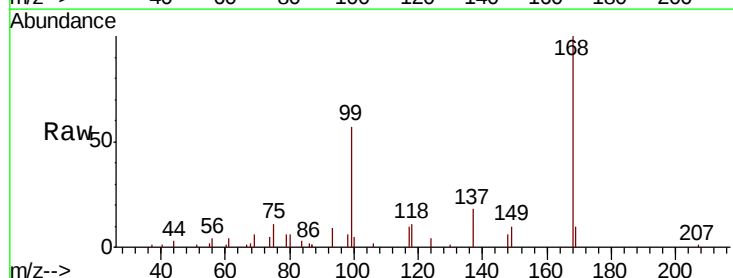
Tgt Ion: 75 Resp: 2588

Ion Ratio Lower Upper

75 100

110 7.3 18.1 54.1#

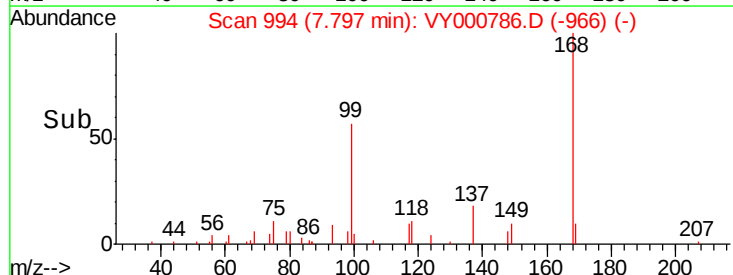
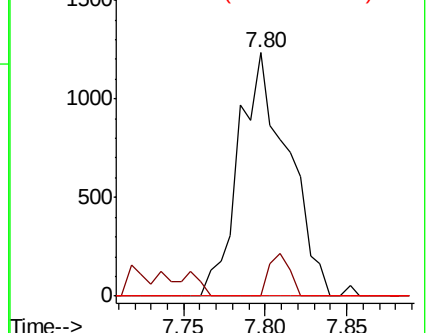
77 0.0 25.0 37.6#

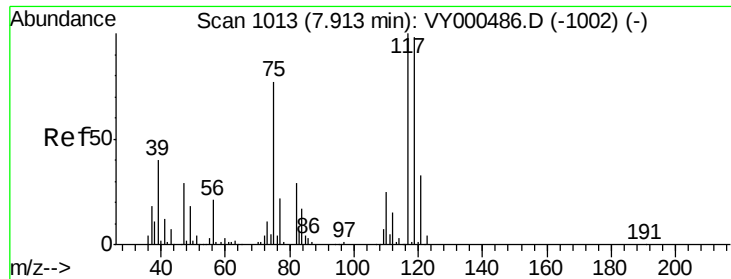


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

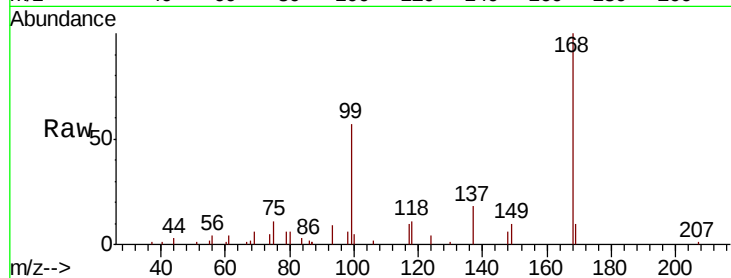




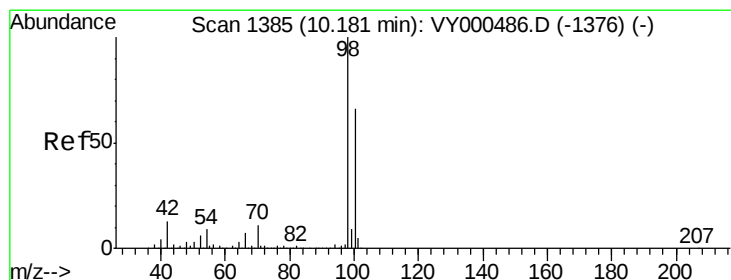
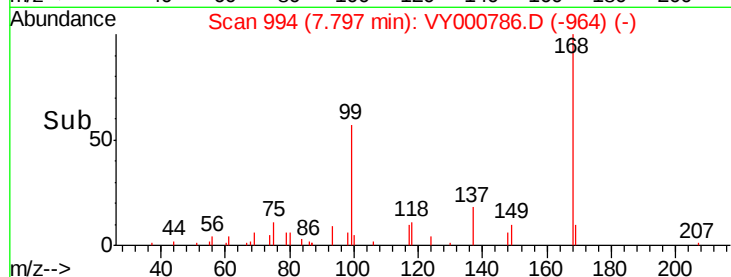
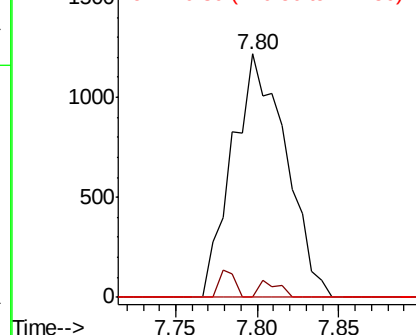
#38
Carbon Tetrachloride
Concen: 5.697 ug/l
RT: 7.80 min Scan# 994
Delta R.T. -0.12 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

Instrument :
MSVOA_Y
ClientSampleId :
OR-02-112119

Tot Ion:117 Resp: 2779
Ion Ratio Lower Upper
117 100
119 0.0 78.0 117.0#
121 0.0 26.6 40.0#

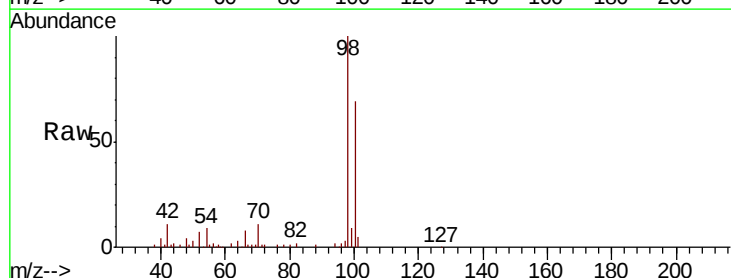


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

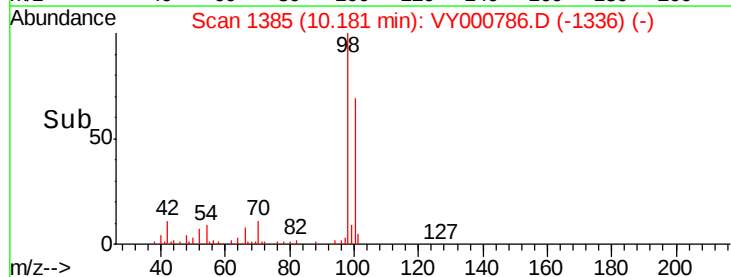
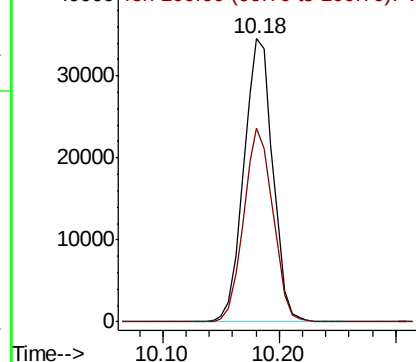


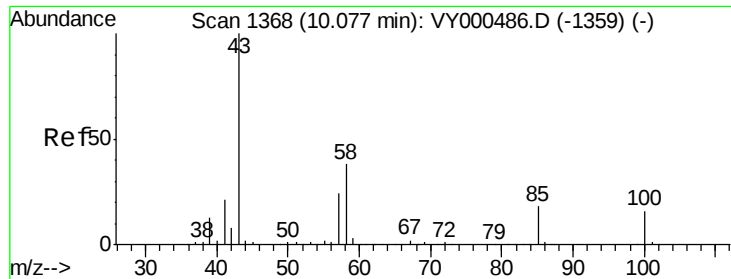
#50
Toluene-d8
Concen: 50.067 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

Tgt Ion: 98 Resp: 59813
Ion Ratio Lower Upper
98 100
100 69.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VY0
Ion 100.00 (99.70 to 100.70): VY





#51

4-Methyl-2-Pentanone

Concen: 1.417 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.00 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampled :

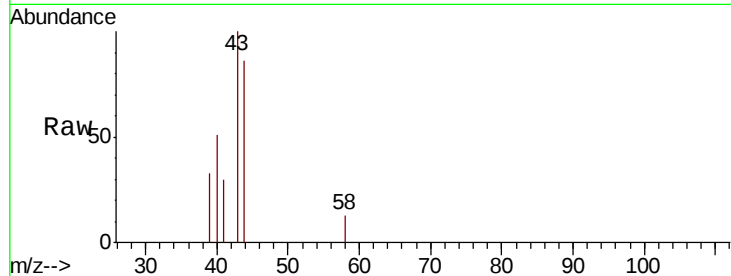
OR-02-112119

Tot Ion: 43 Resp: 426

Ion Ratio Lower Upper

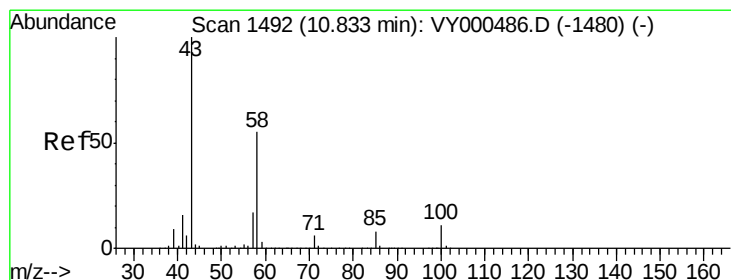
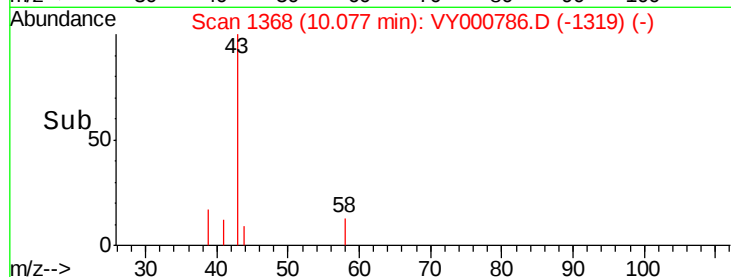
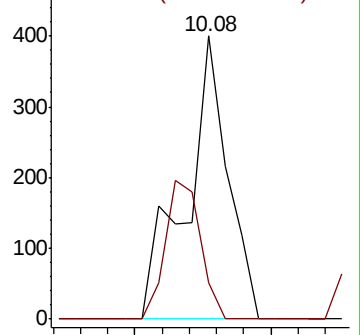
43 100

58 41.1 30.2 45.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#59

2-Hexanone

Concen: 2.552 ug/l

RT: 10.84 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VY000786.D

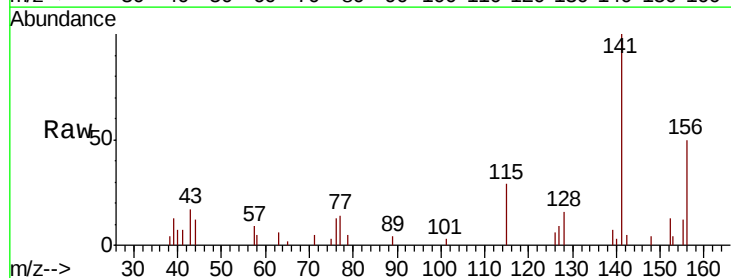
Acq: 22 Nov 2019 12:28

Tgt Ion: 43 Resp: 559

Ion Ratio Lower Upper

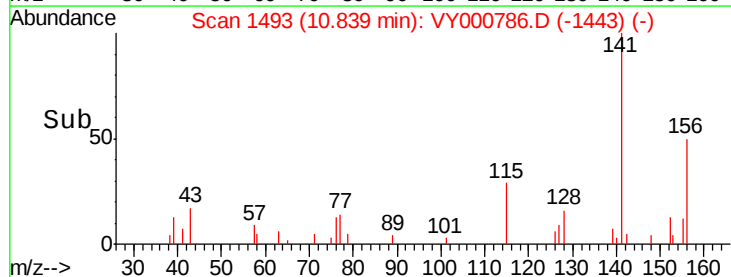
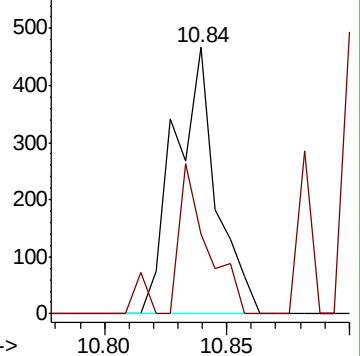
43 100

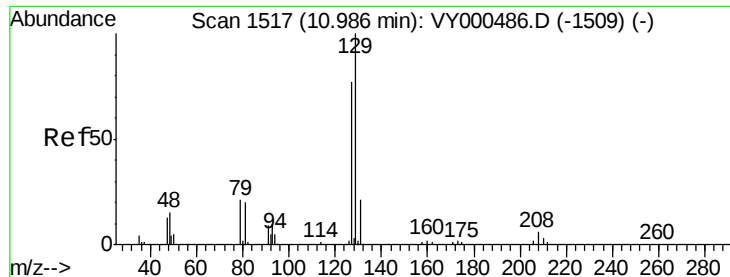
58 42.0 27.1 81.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#60

Dibromochloromethane

Concen: 1.362 ug/l

RT: 10.96 min Scan# 1512

Delta R.T. -0.03 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampled :

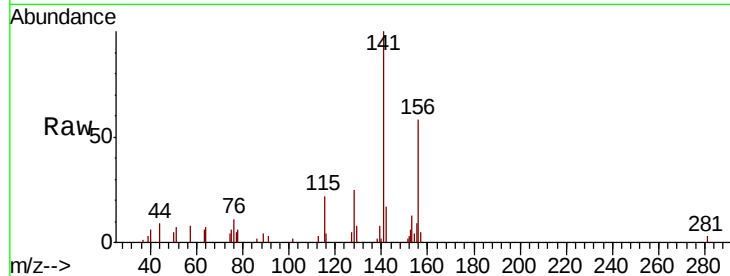
OR-02-112119

Tot Ion:129 Resp: 454

Ion Ratio Lower Upper

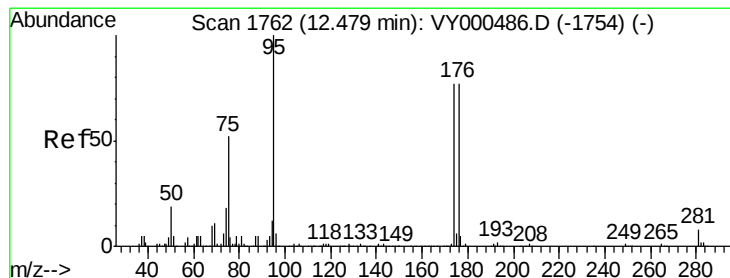
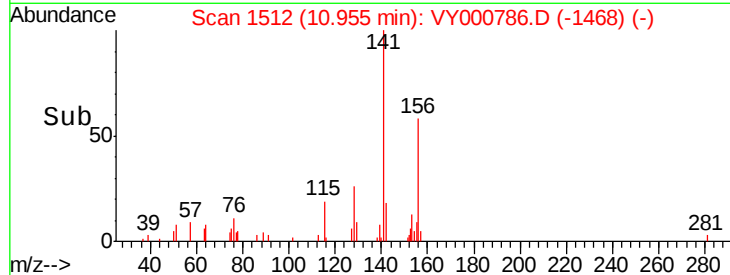
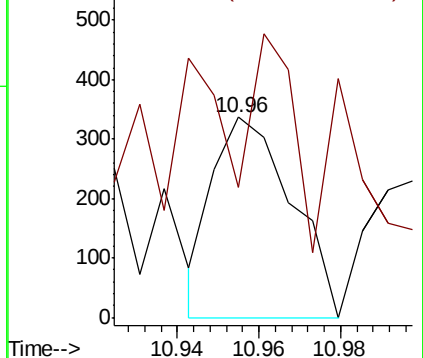
129 100

127 44.3 39.1 117.2



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.017 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

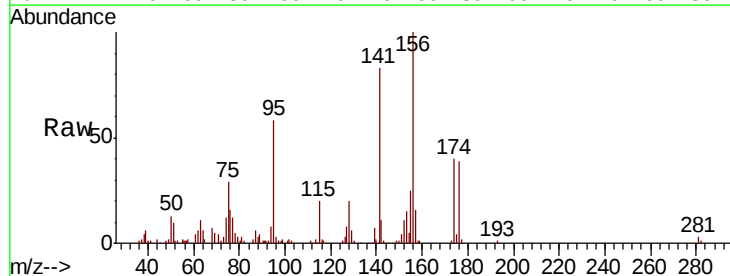
Tgt Ion: 95 Resp: 19564

Ion Ratio Lower Upper

95 100

174 76.0 0.0 161.6

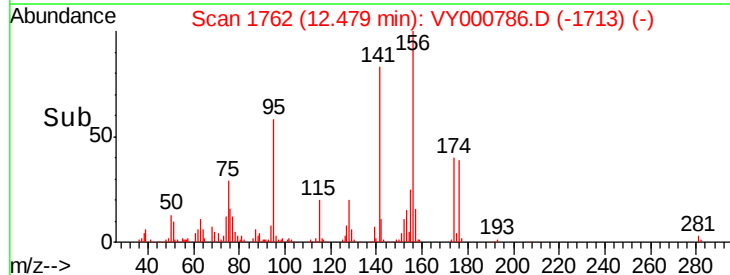
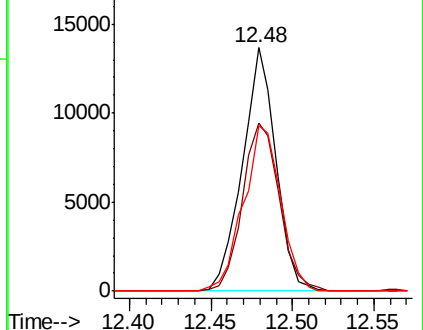
176 75.6 0.0 157.8

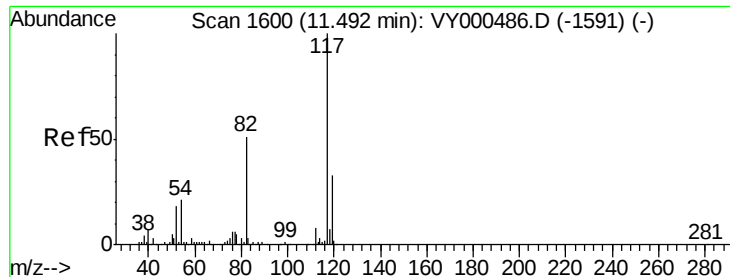


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

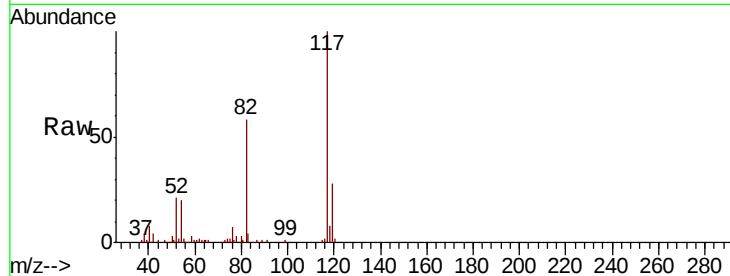




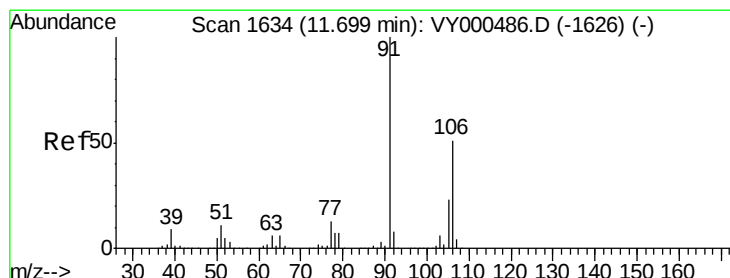
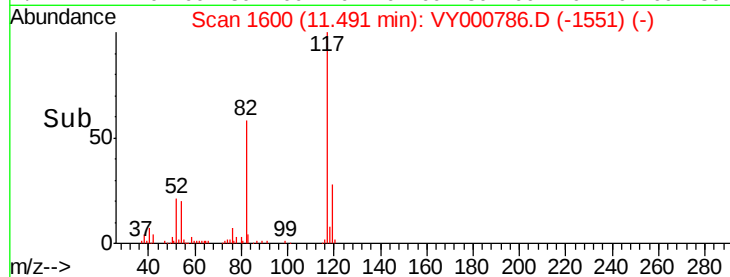
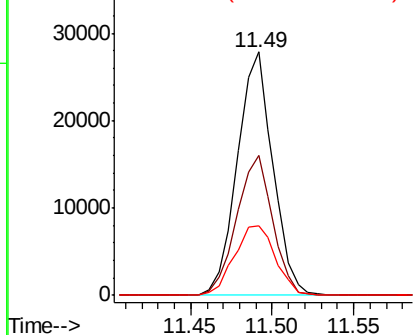
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

Instrument :
MSVOA_Y
ClientSampleId :
OR-02-112119

Tot Ion:117 Resp: 42191
Ion Ratio Lower Upper
117 100
82 57.6 40.8 61.2
119 28.5 26.2 39.2

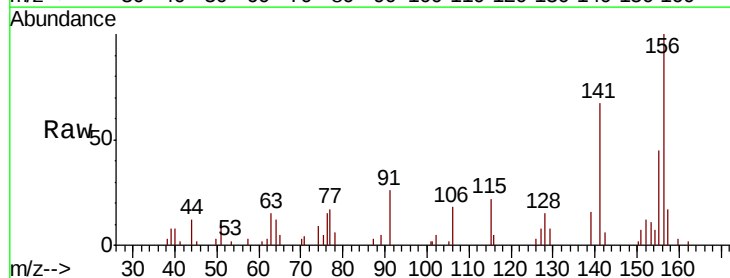


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

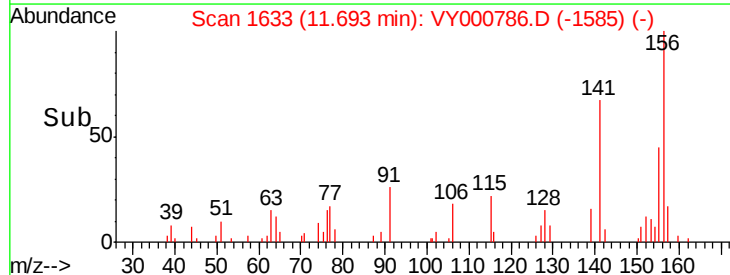
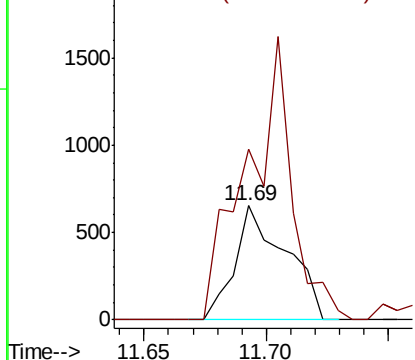


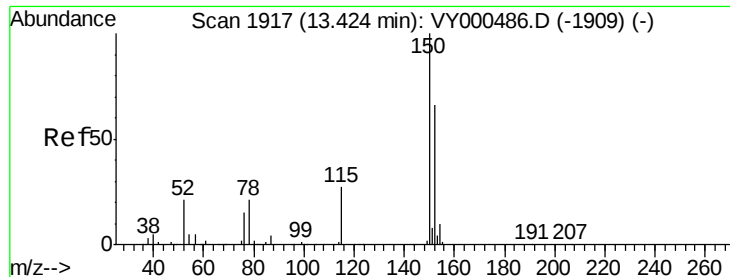
#68
m/p-Xylenes
Concen: 1.553 ug/l
RT: 11.69 min Scan# 1633
Delta R.T. -0.01 min
Lab File: VY000786.D
Acq: 22 Nov 2019 12:28

Tgt Ion:106 Resp: 946
Ion Ratio Lower Upper
106 100
91 220.5 155.9 233.9



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-112119

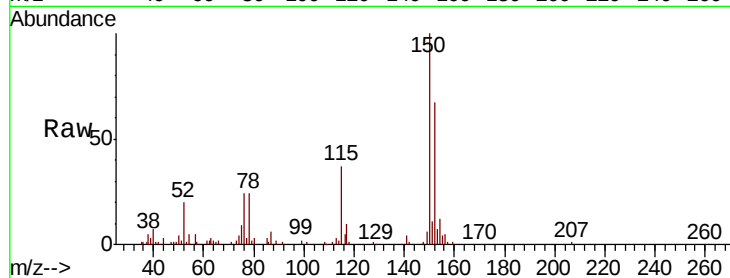
Tot Ion:152 Resp: 18536

Ion Ratio Lower Upper

152 100

115 63.0 29.1 87.4

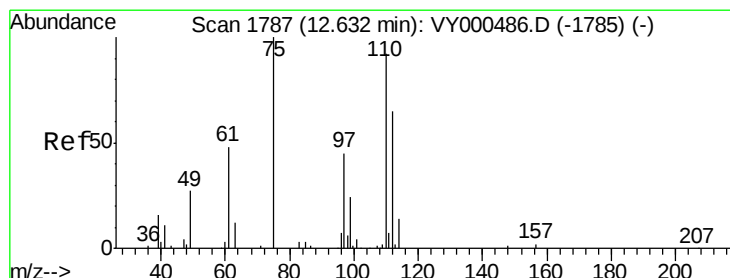
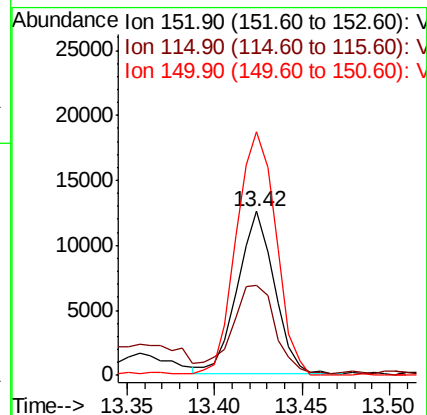
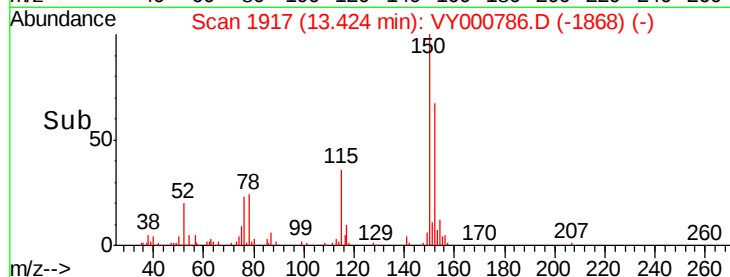
150 159.5 0.0 348.8



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



#76

1,2,3-Trichloropropane

Concen: 2.270 ug/l

RT: 12.65 min Scan# 1790

Delta R.T. 0.02 min

Lab File: VY000786.D

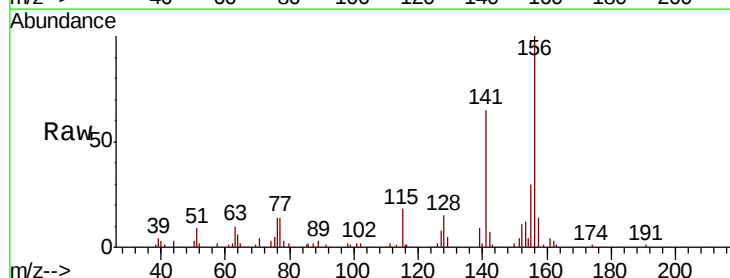
Acq: 22 Nov 2019 12:28

Tgt Ion: 75 Resp: 479

Ion Ratio Lower Upper

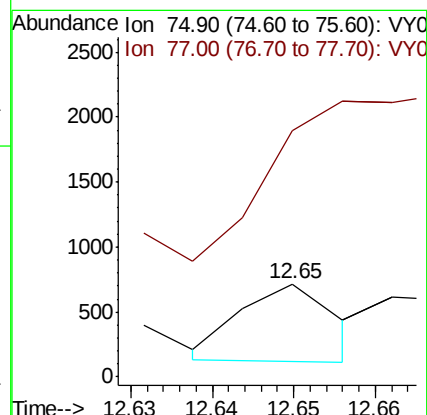
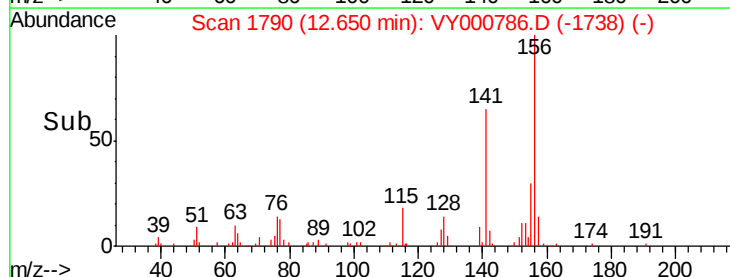
75 100

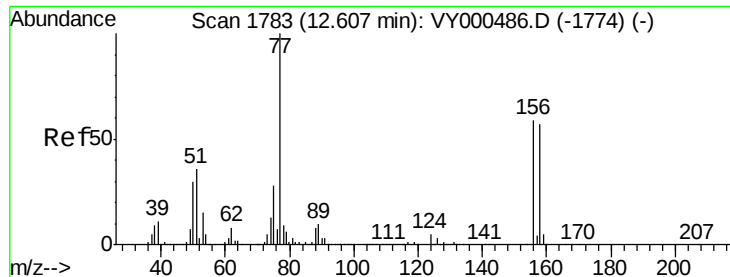
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 289.680 ug/l

RT: 12.70 min Scan# 1798

Delta R.T. 0.09 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-112119

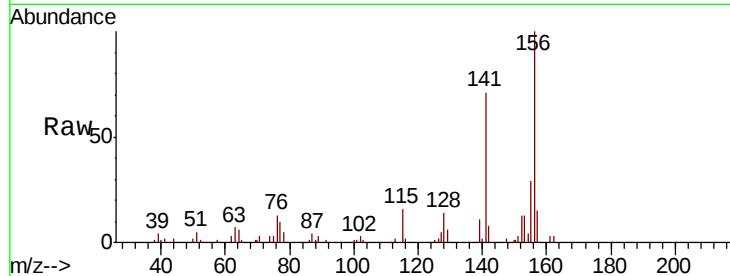
Tot Ion:156 Resp: 89993

Ion Ratio Lower Upper

156 100

77 0.0 98.2 294.4#

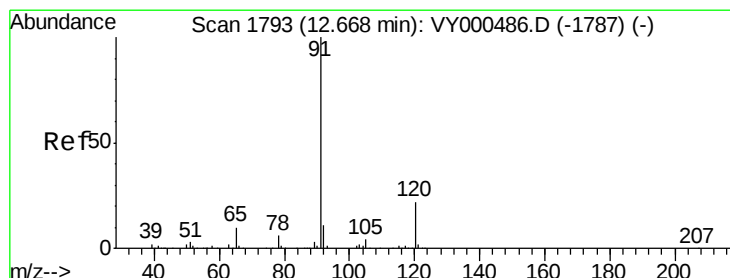
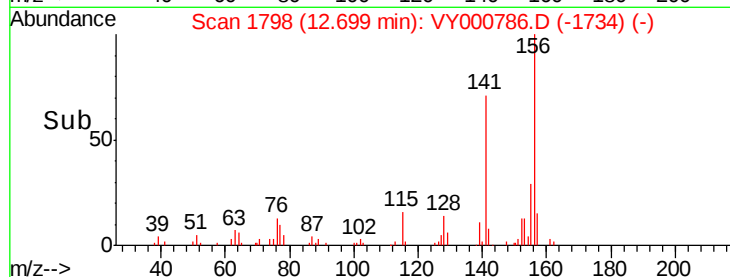
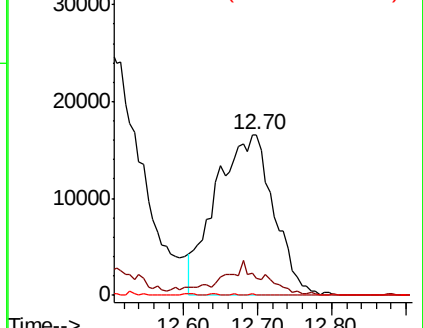
158 0.0 49.6 149.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 1.323 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. 0.01 min

Lab File: VY000786.D

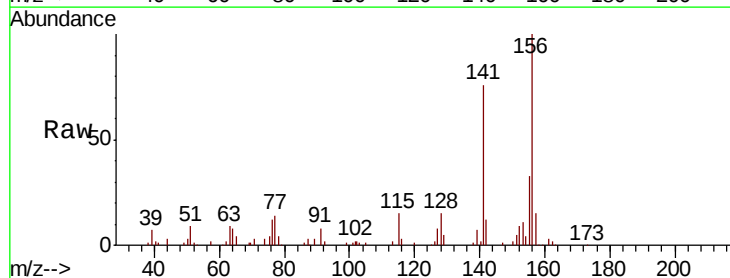
Acq: 22 Nov 2019 12:28

Tgt Ion: 91 Resp: 2187

Ion Ratio Lower Upper

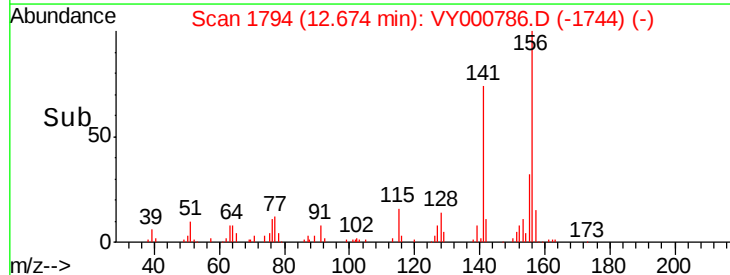
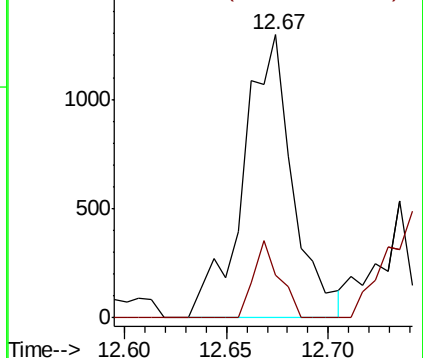
91 100

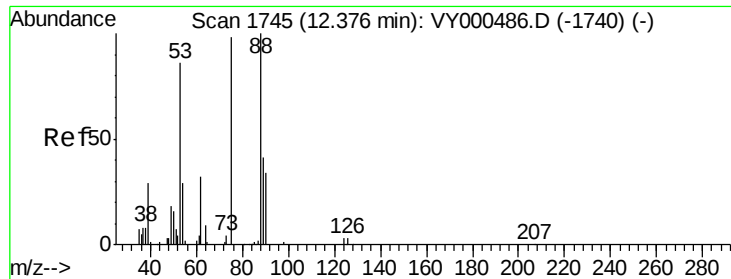
120 14.3 11.4 34.1



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 147.101 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampleId :

OR-02-112119

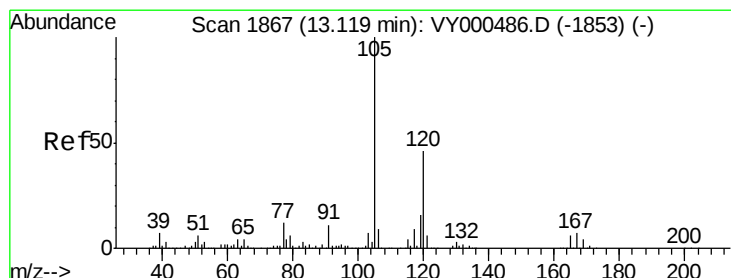
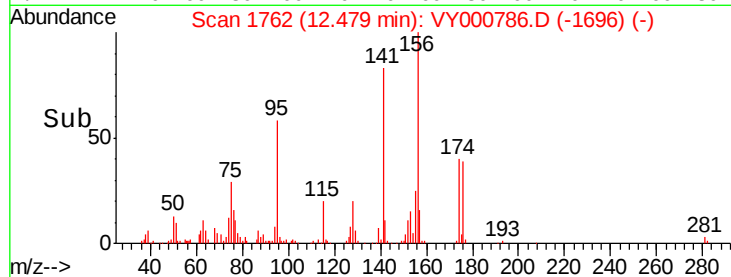
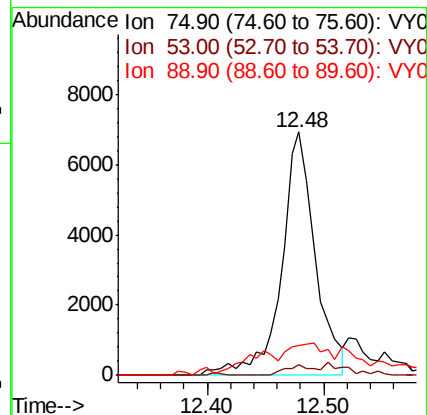
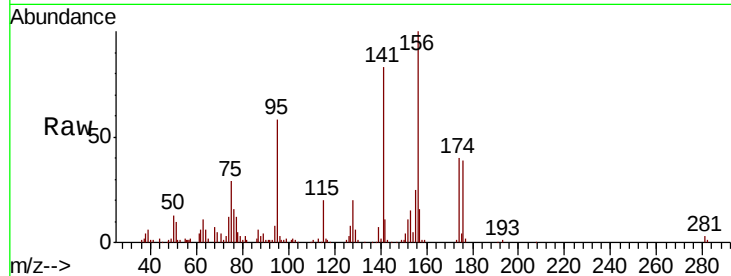
Tot Ion: 75 Resp: 13847

Ion Ratio Lower Upper

75 100

53 3.6 73.2 109.8#

89 8.4 35.9 53.9#



#84

1,2,4-Trimethylbenzene

Concen: 3.692 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY000786.D

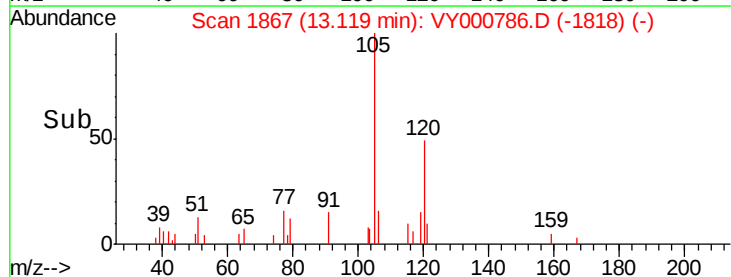
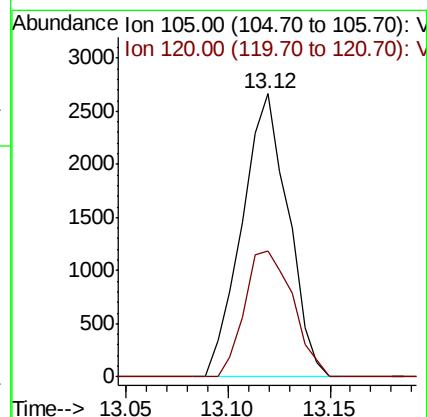
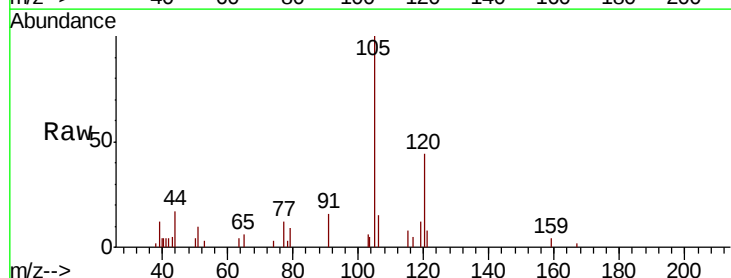
Acq: 22 Nov 2019 12:28

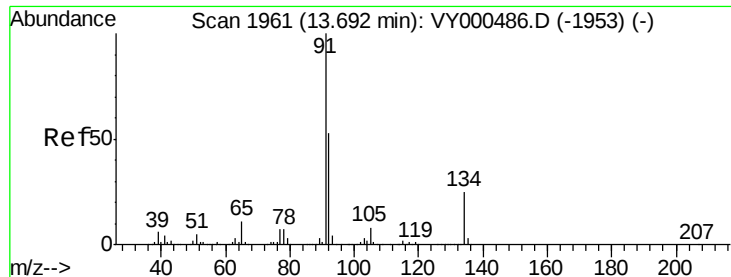
Tgt Ion:105 Resp: 4194

Ion Ratio Lower Upper

105 100

120 46.5 23.3 69.9





#89

n-Butylbenzene

Concen: 1.160 ug/l

RT: 13.70 min Scan# 1962

Delta R.T. 0.01 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

Instrument :

MSVOA_Y

ClientSampled :

OR-02-112119

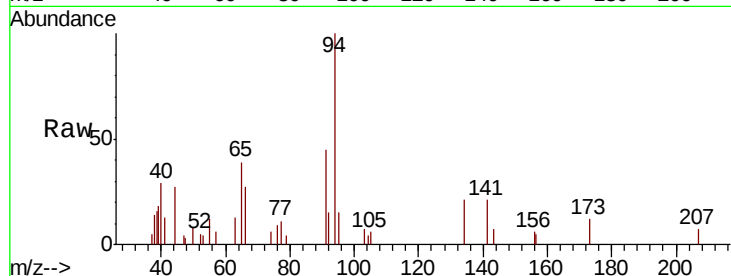
Tot Ion: 91 Resp: 1415

Ion Ratio Lower Upper

91 100

92 39.3 26.8 80.3

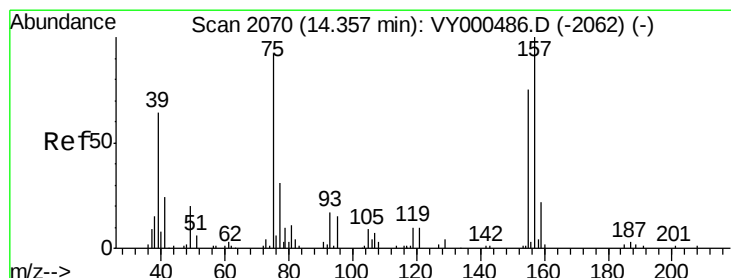
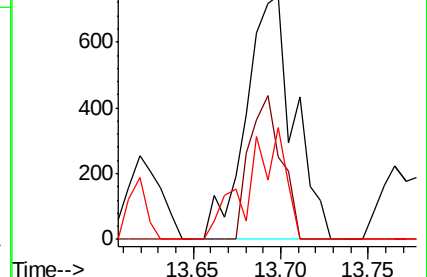
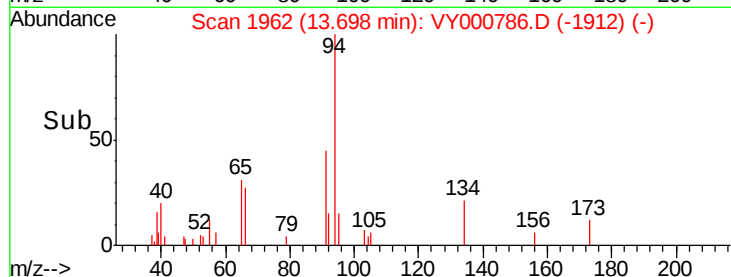
134 36.3 12.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 92.00 (91.70 to 92.70): VY0

Ion 134.00 (133.70 to 134.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 485.127 ug/l

RT: 14.55 min Scan# 2101

Delta R.T. 0.19 min

Lab File: VY000786.D

Acq: 22 Nov 2019 12:28

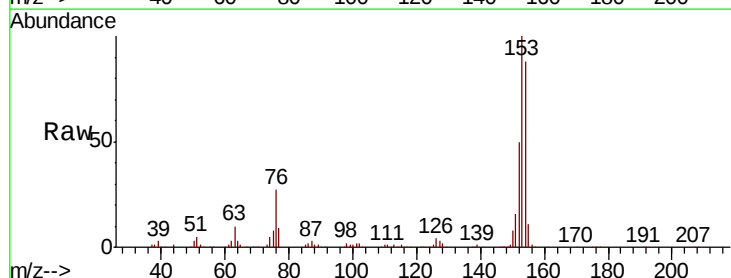
Tgt Ion: 75 Resp: 23289

Ion Ratio Lower Upper

75 100

155 138.9 42.4 127.1#

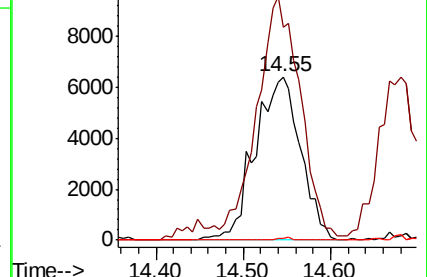
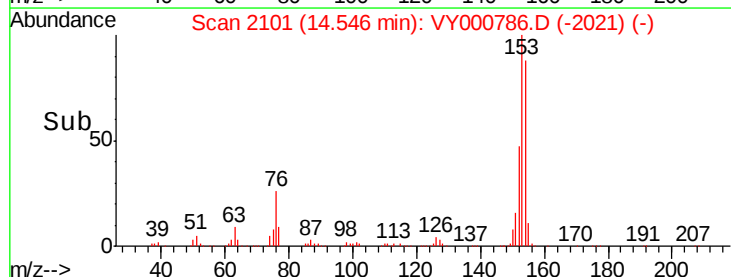
157 0.5 55.1 165.3#

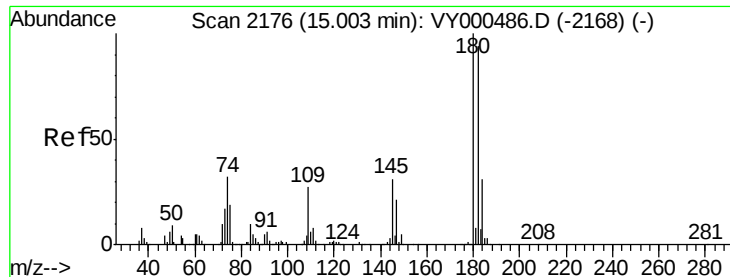


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

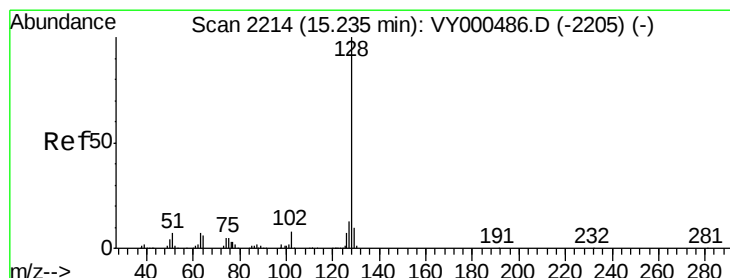
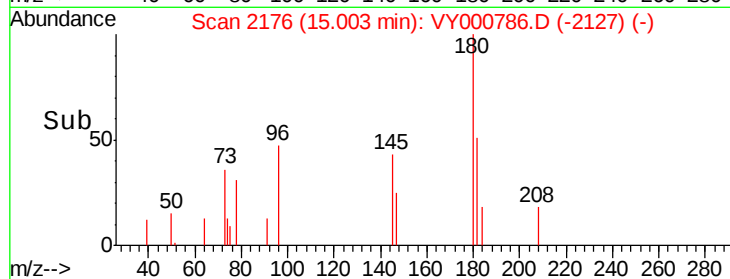
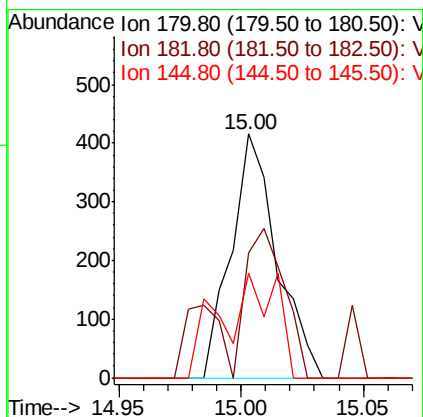
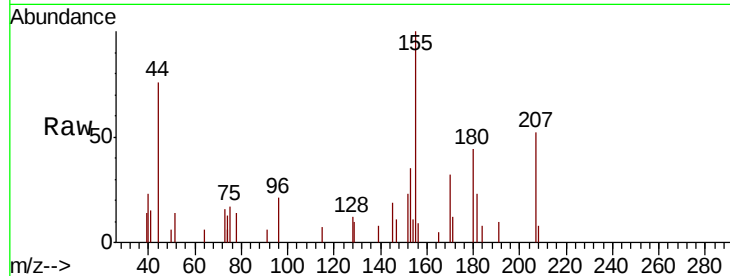




#93
 1,2,4-Trichlorobenzene
 Concen: 1.442 ug/l
 RT: 15.00 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VY000786.D
 Acq: 22 Nov 2019 12:28

Instrument :
 MSVOA_Y
 ClientSampled :
 OR-02-112119

Tot Ion:180 Resp: 542
 Ion Ratio Lower Upper
 180 100
 182 52.0 47.8 143.4
 145 31.0 16.0 47.9



#95
 Naphthalene
 Concen: 54.498 ug/l
 RT: 15.23 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VY000786.D
 Acq: 22 Nov 2019 12:28

Tgt Ion:128 Resp: 45479
 Ion Ratio Lower Upper
 128 100
 127 13.8 9.8 14.6
 129 12.7 8.7 13.1

