

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY112019\
 Data File : VY000756.D
 Acq On : 20 Nov 2019 16:54
 Operator : SY/MD
 Sample : K5957-13
 Misc : 4.40G/5ML/MSVOA Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 FD-111919

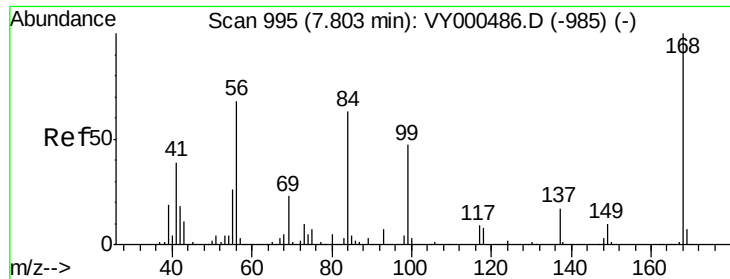
Manual Integrations
 APPROVED

MMDadoda
 11/22/2019 12:53:16 AM

Quant Time: Nov 21 08:14:53 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	7.81	168	269046	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.71	114	472476	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.50	117	312088	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.41	152	265433	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	142708	51.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.52%	
35) Dibromofluoromethane	7.74	113	144218	51.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.98%	
50) Toluene-d8	10.19	98	1364214	129.62	ug/l	0.01
Spiked Amount	50.000		Recovery	=	259.24%	
62) 4-Bromofluorobenzene	12.46	95	6774023	1690.65	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	3381.30%	
Target Compounds						
					Qvalue	
16) Acetone	3.97	43	15219	19.832	ug/l	90
31) Cyclohexane	7.80	56	391407	72.624	ug/l	98
39) Methylcyclohexane	9.20	83	3621461	627.586	ug/l	100
44) Trichloroethene	8.96	130	15530	4.498	ug/l	94
64) Tetrachloroethene	10.74	164	137163	53.152	ug/l	97
67) Ethyl Benzene	11.60	91	31986753m	2746.732	ug/l	
68) m/p-Xylenes	11.73	106	882635	195.826	ug/l #	55
69) o-Xylene	12.06	106	662352	156.362	ug/l	41
73) Isopropylbenzene	12.36	105	15582986	794.338	ug/l	96
78) n-propylbenzene	12.68	91	21492424	907.997	ug/l #	73
80) 1,3,5-Trimethylbenzene	12.82	105	21169523	1295.686	ug/l	76
83) tert-Butylbenzene	13.08	119	1311851	94.037	ug/l	82
84) 1,2,4-Trimethylbenzene	13.12	105	26078765m	1603.117	ug/l	
85) sec-Butylbenzene	13.26	105	7477467	376.219	ug/l #	64
86) p-Isopropyltoluene	13.38	119	4263649	240.695	ug/l	98
89) n-Butylbenzene	13.70	91	2745698m	157.155	ug/l	
95) Naphthalene	15.23	128	179679	15.036	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

Instrument :

MSVOA_Y

ClientSampleId :

FD-111919

Tot Ion:168 Resp: 269046

Ion Ratio Lower Upper

168 100

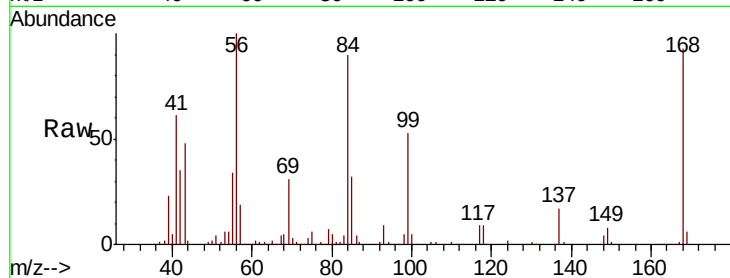
99 56.6 45.7 68.5

Manual Integrations

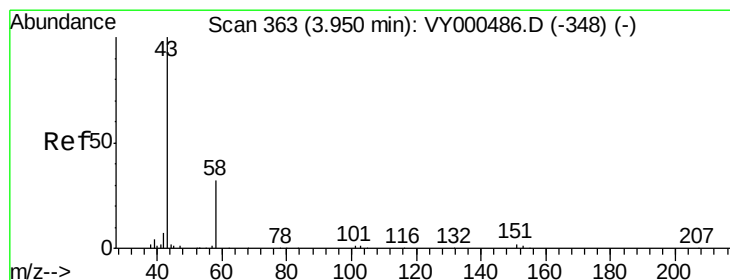
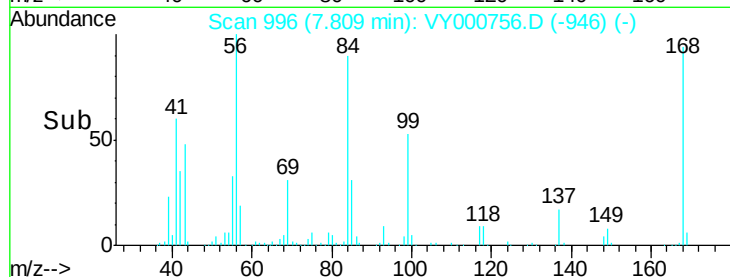
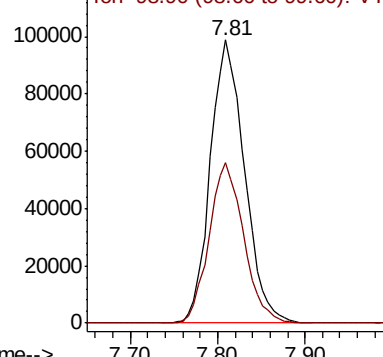
APPROVED

MMDadoda

11/22/2019 12:53:16 AM



Abundance Ion 167.90 (167.60 to 168.60): VY000486.D (-985) (-)



#16

Acetone

Concen: 19.832 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.02 min

Lab File: VY000756.D

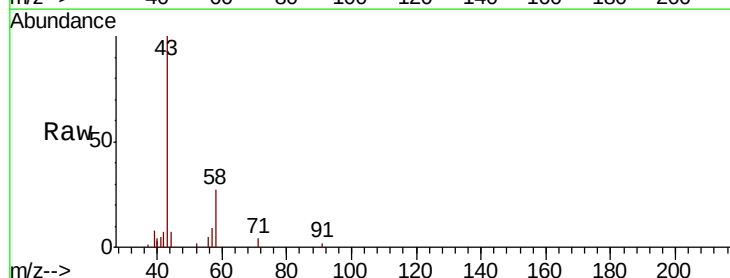
Acq: 20 Nov 2019 16:54

Tgt Ion: 43 Resp: 15219

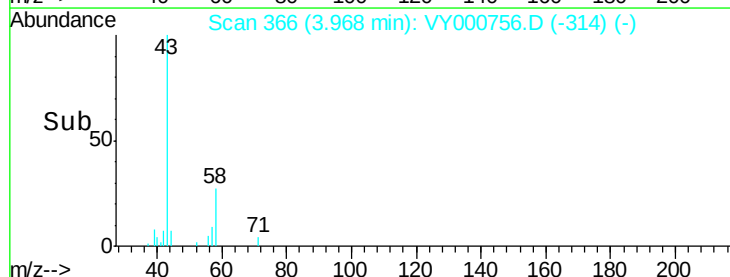
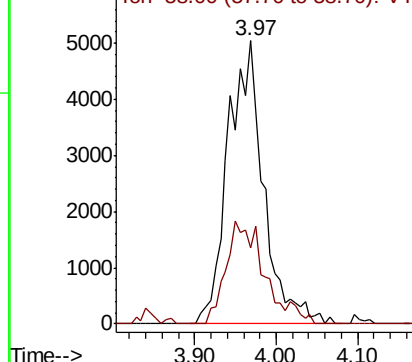
Ion Ratio Lower Upper

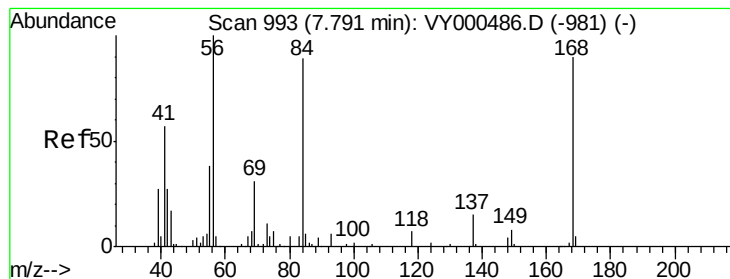
43 100

58 26.7 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VY000486.D (-348) (-)





#31

Cyclohexane

Concen: 72.624 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

Instrument :

MSVOA_Y

ClientSampleId :

FD-111919

Tot Ion: 56 Resp: 391407

Ion Ratio Lower Upper

56 100

69 28.9 25.0 37.6

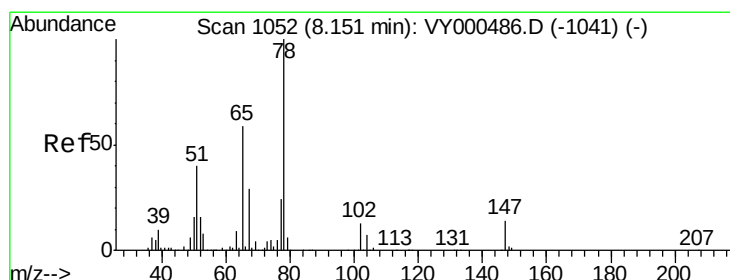
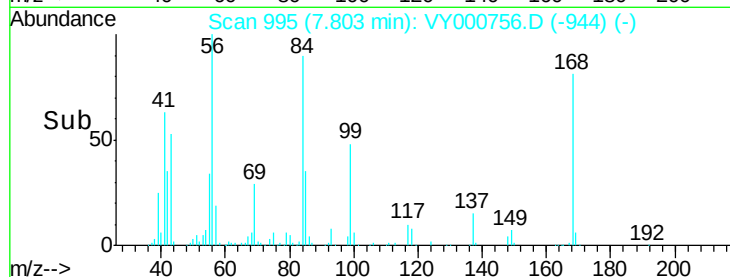
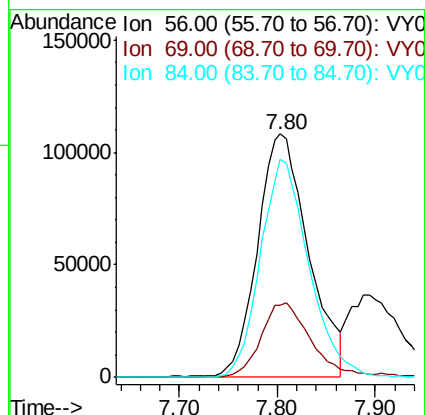
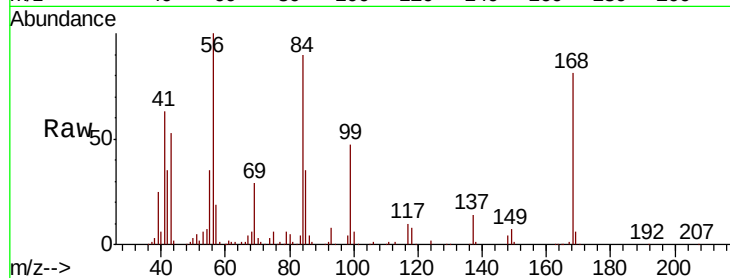
84 89.8 71.4 107.2

Manual Integrations

APPROVED

MMDadoda

11/22/2019 12:53:16 AM



#33

1,2-Dichloroethane-d4

Concen: 51.255 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY000756.D

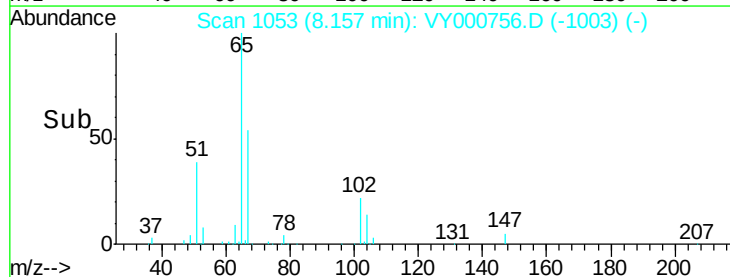
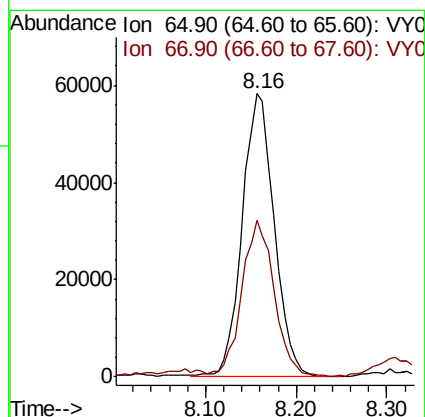
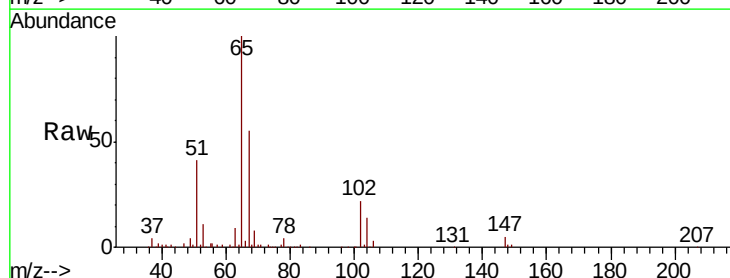
Acq: 20 Nov 2019 16:54

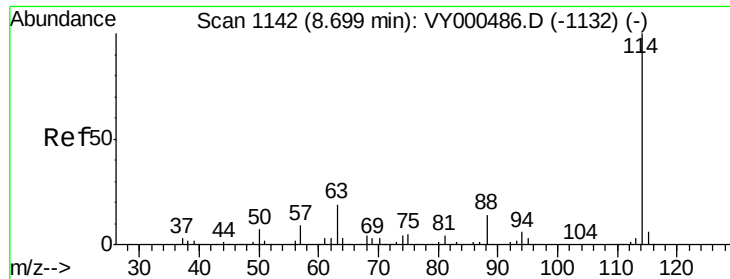
Tgt Ion: 65 Resp: 142708

Ion Ratio Lower Upper

65 100

67 55.7 0.0 107.2





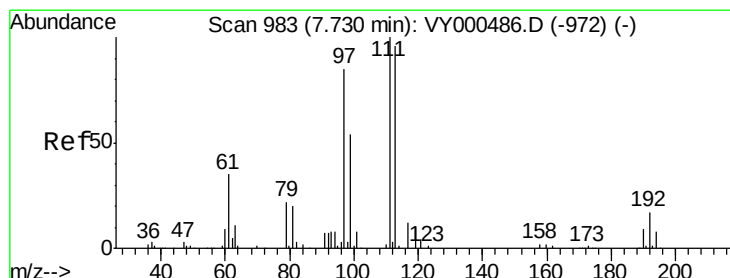
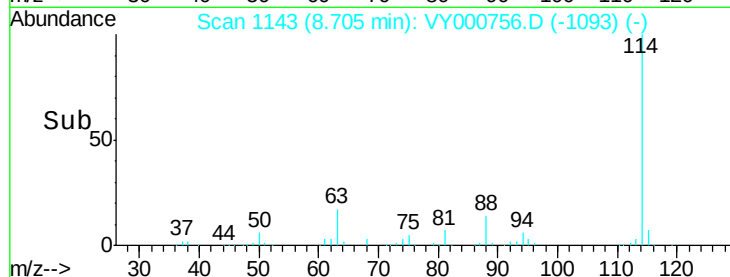
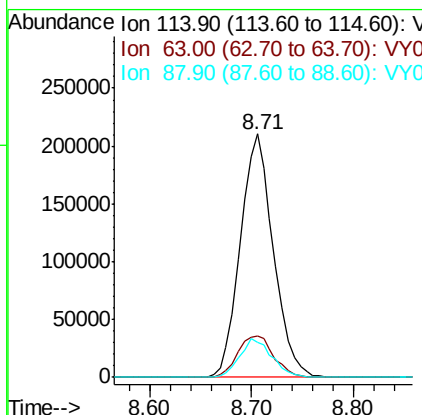
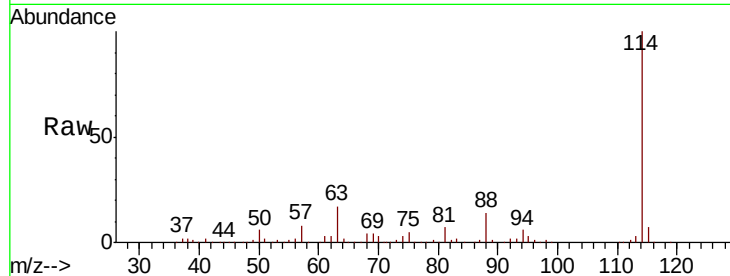
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.71 min Scan# 1143
 Delta R.T. 0.01 min
 Lab File: VY000756.D
 Acq: 20 Nov 2019 16:54

Instrument :
 MSVOA_Y
 ClientSampled :
 FD-111919

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	38.0
88	14.5	0.0	28.6

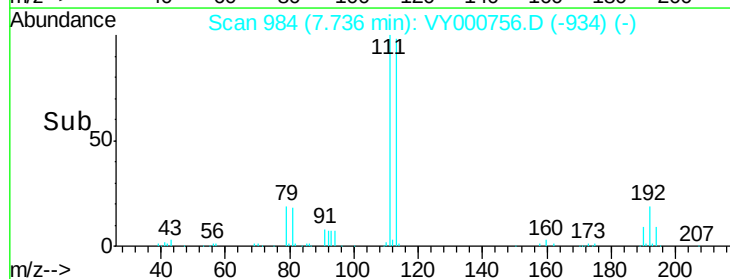
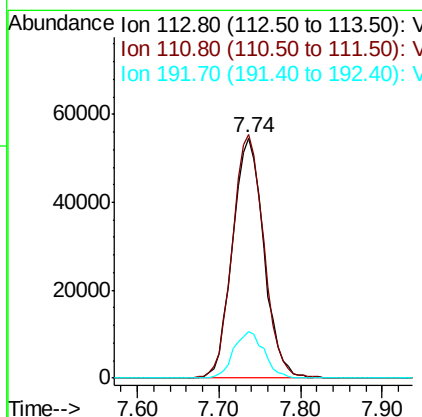
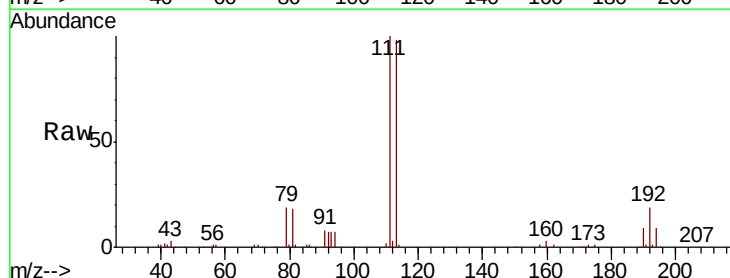
Manual Integrations
 APPROVED

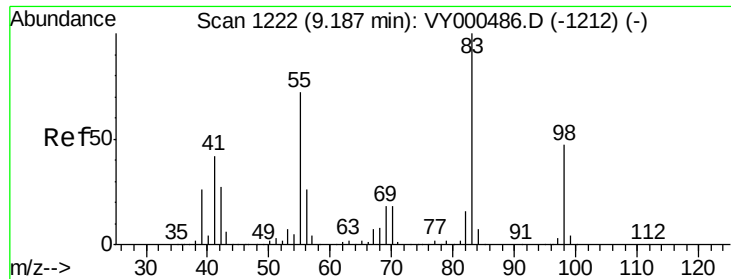
MMDadoda
 11/22/2019 12:53:16 AM



#35
 Dibromofluoromethane
 Concen: 51.994 ug/l
 RT: 7.74 min Scan# 984
 Delta R.T. 0.01 min
 Lab File: VY000756.D
 Acq: 20 Nov 2019 16:54

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.7	122.5
192	19.0	15.0	22.4





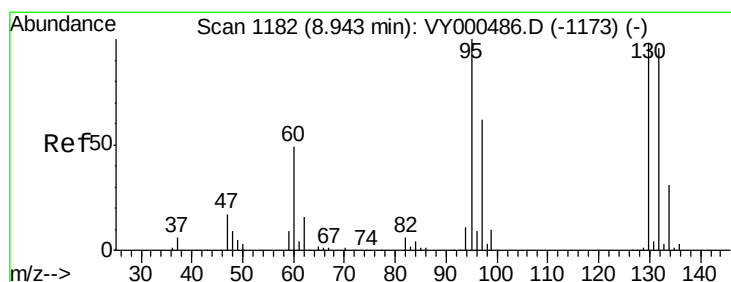
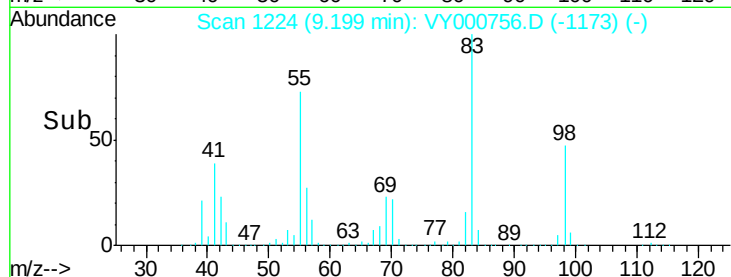
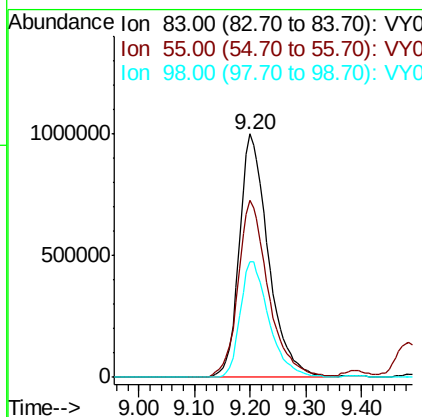
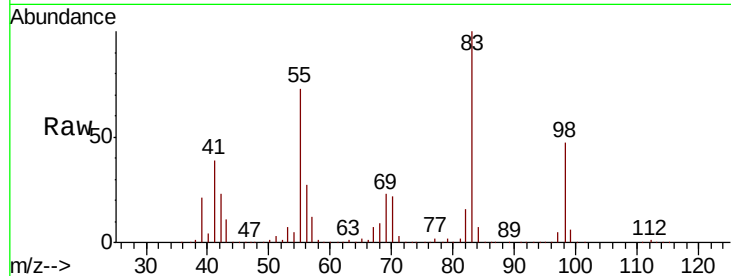
#39
Methylcyclohexane
Concen: 627.586 ug/l
RT: 9.20 min Scan# 1224
Delta R.T. 0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampled :
FD-111919

Tot Ion: 83 Resp: 3621461
Ion Ratio Lower Upper
83 100
55 72.5 57.5 86.3
98 47.4 38.0 57.0

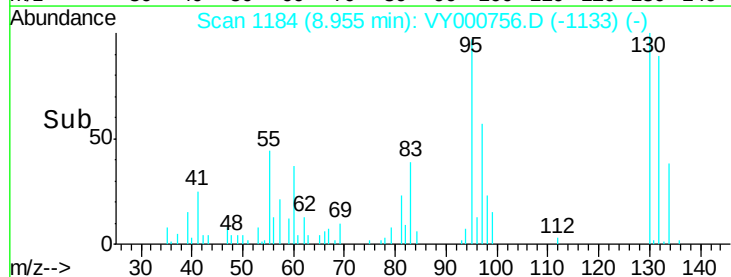
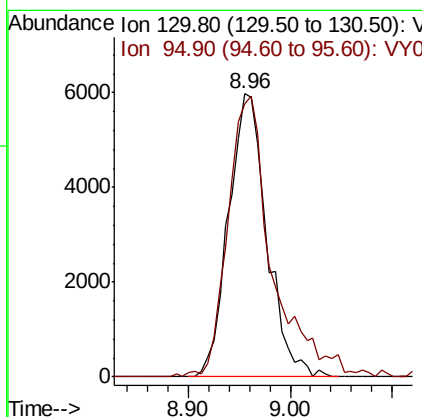
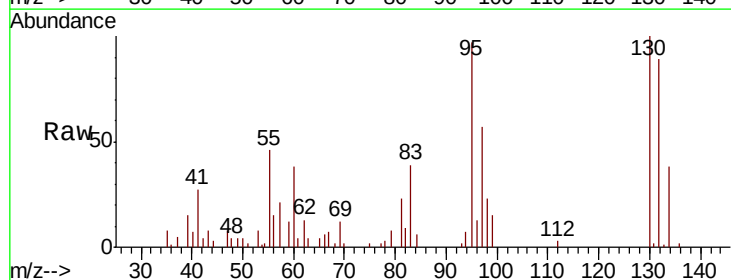
Manual Integrations
APPROVED

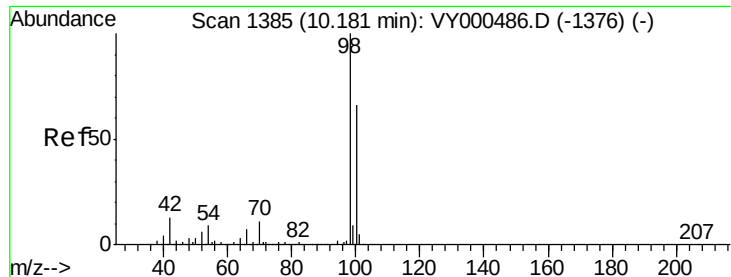
MMDadoda
11/22/2019 12:53:16 AM



#44
Trichloroethene
Concen: 4.498 ug/l
RT: 8.96 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Tgt Ion:130 Resp: 15530
Ion Ratio Lower Upper
130 100
95 95.2 0.0 203.2





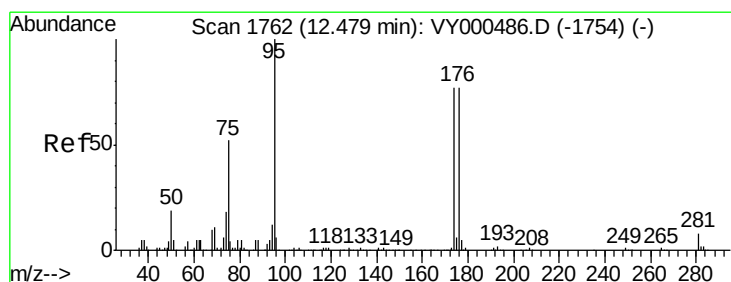
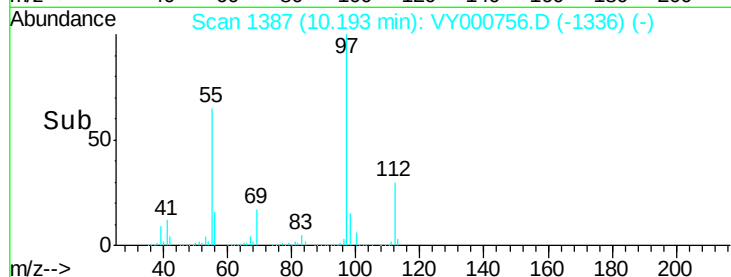
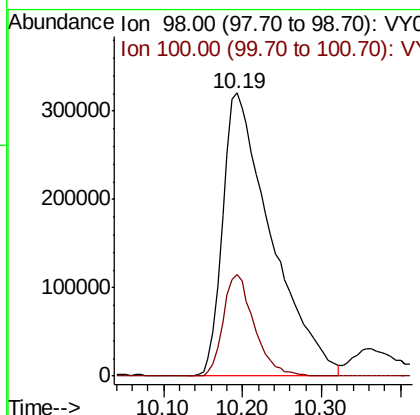
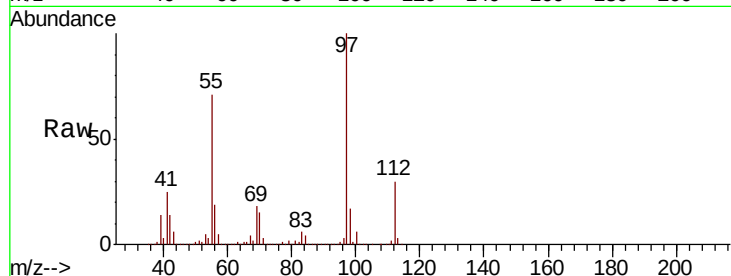
#50
Toluene-d8
Concen: 129.618 ug/l
RT: 10.19 min Scan# 1387
Delta R.T. 0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampleId :
FD-111919

Tot Ion: 98 Resp: 1364214
Ion Ratio Lower Upper
98 100
100 23.1 52.9 79.3#

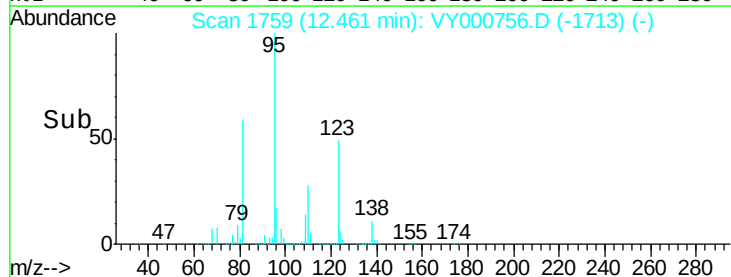
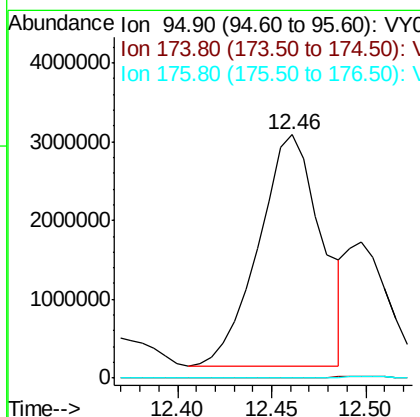
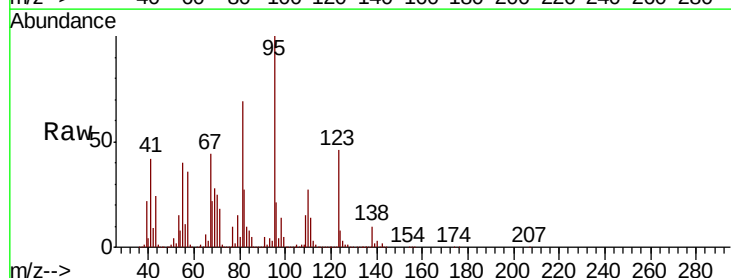
Manual Integrations
APPROVED

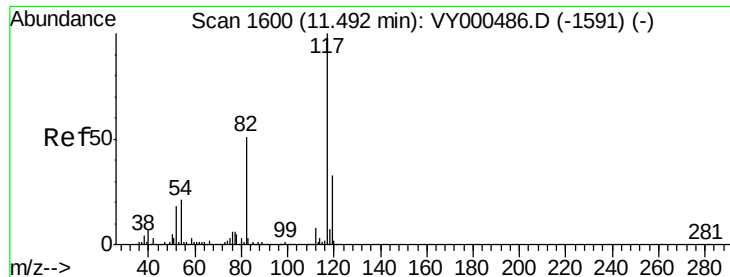
MMDadoda
11/22/2019 12:53:16 AM



#62
4-Bromofluorobenzene
Concen: 1690.650 ug/l
RT: 12.46 min Scan# 1759
Delta R.T. -0.02 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Tgt Ion: 95 Resp: 6774023
Ion Ratio Lower Upper
95 100
174 0.0 0.0 161.6
176 0.0 0.0 157.8





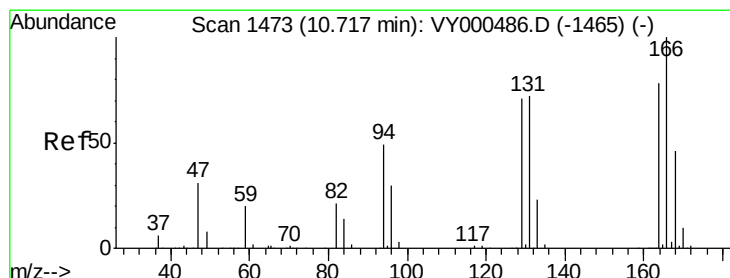
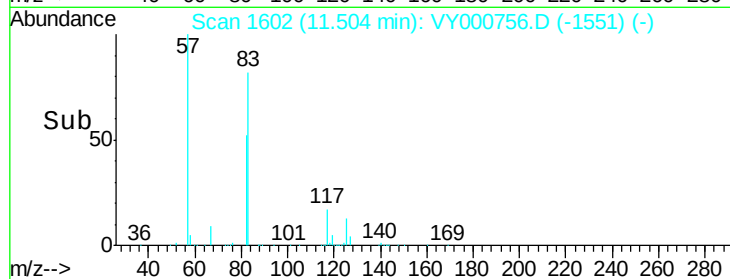
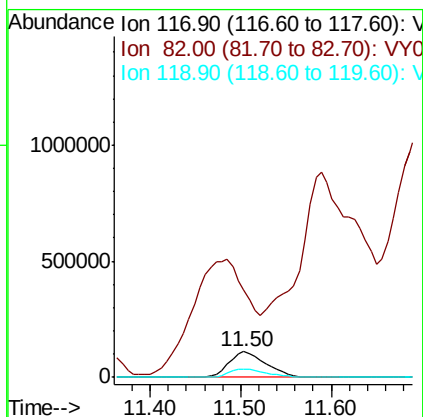
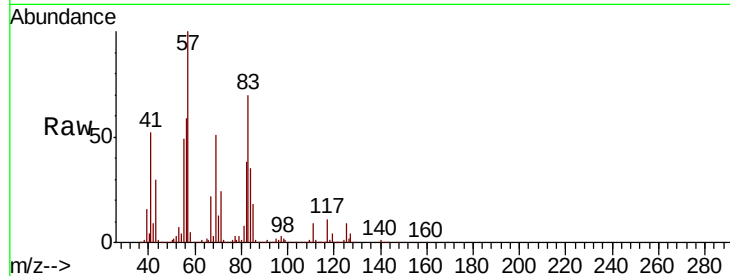
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.50 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampleId :
FD-111919

Tot Ion	Ratio	Lower	Upper
117	100		
82	111.9	40.8	61.2
119	32.4	26.2	39.2

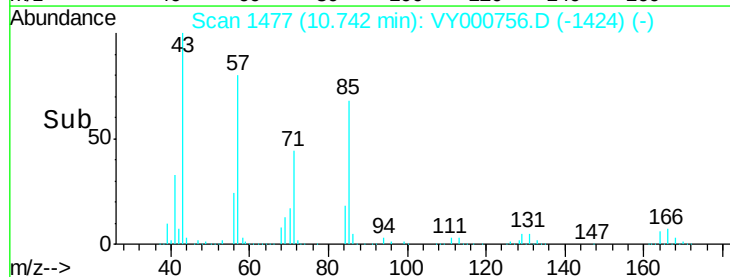
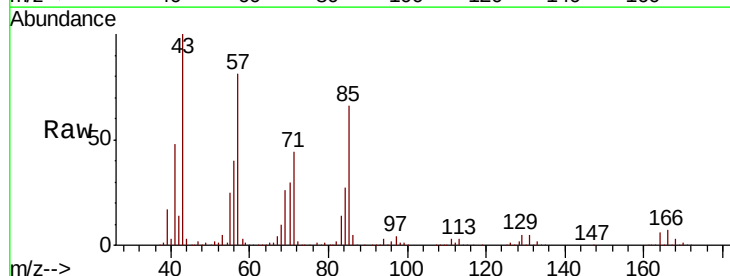
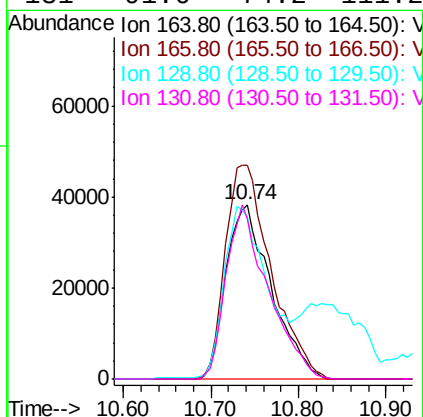
Manual Integrations
APPROVED

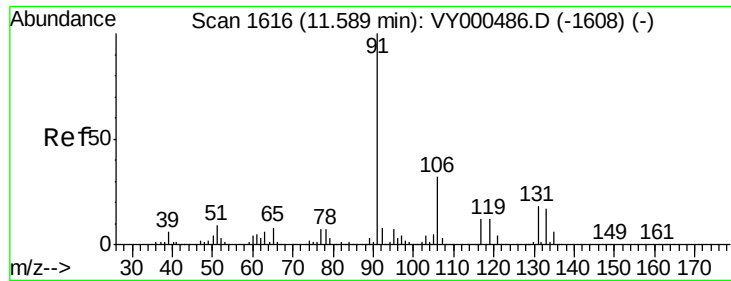
MMDadoda
11/22/2019 12:53:16 AM



#64
Tetrachloroethene
Concen: 53.152 ug/l
RT: 10.74 min Scan# 1477
Delta R.T. 0.02 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.2	102.7	154.1
129	92.0	73.2	109.8
131	91.6	74.2	111.2





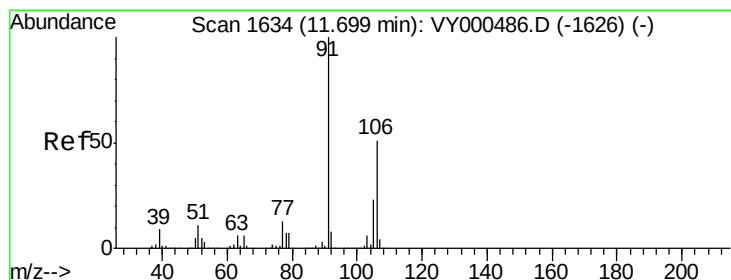
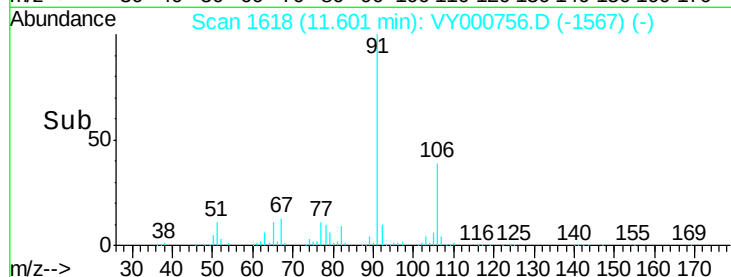
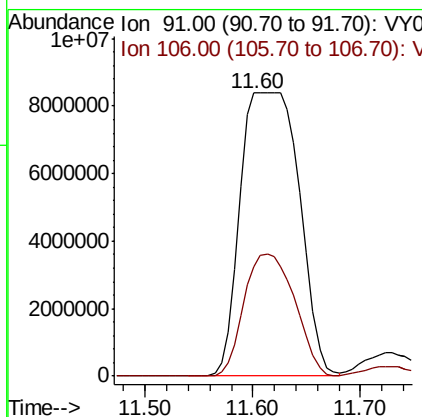
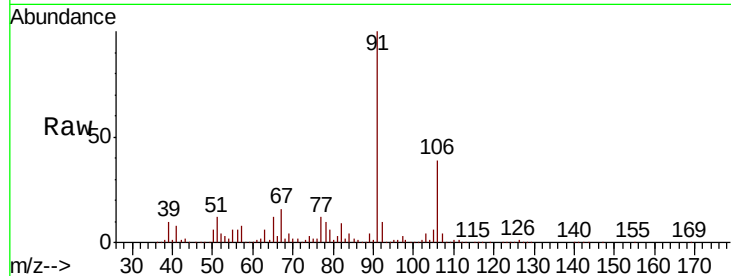
#67
Ethyl Benzene
Concen: 2746.732 ug/l m
RT: 11.60 min Scan# 1618
Delta R.T. 0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampleId :
FD-111919

Tot Ion: 91 Resp: 31986753
Ion Ratio Lower Upper
91 100
106 38.7 25.4 38.0#

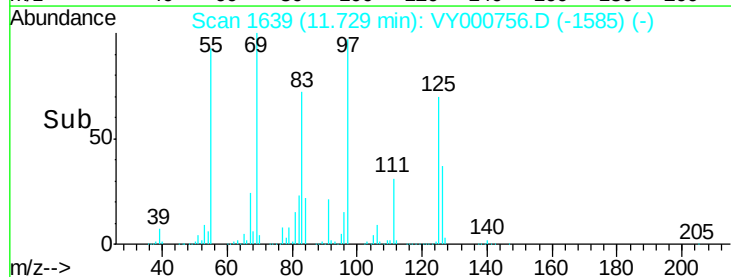
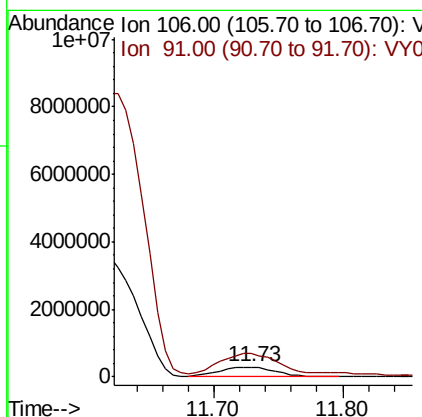
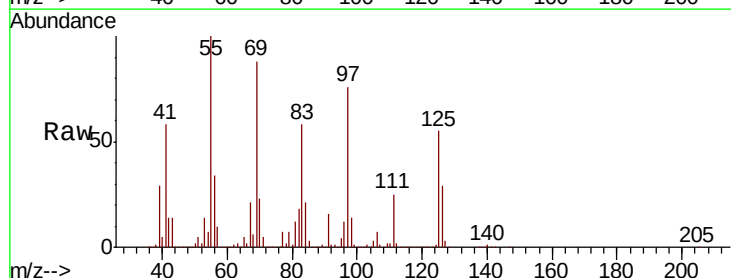
Manual Integrations
APPROVED

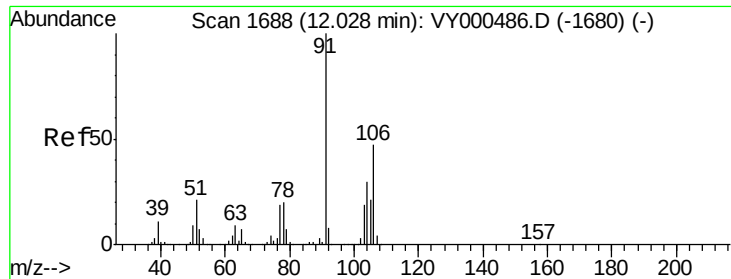
MMDadoda
11/22/2019 12:53:16 AM



#68
m/p-Xylenes
Concen: 195.826 ug/l
RT: 11.73 min Scan# 1639
Delta R.T. 0.03 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Tgt Ion: 106 Resp: 882635
Ion Ratio Lower Upper
106 100
91 261.8 155.9 233.9#





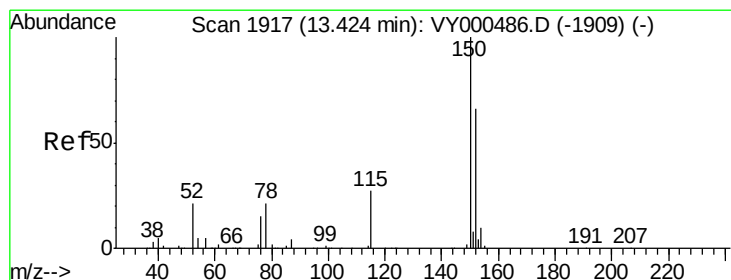
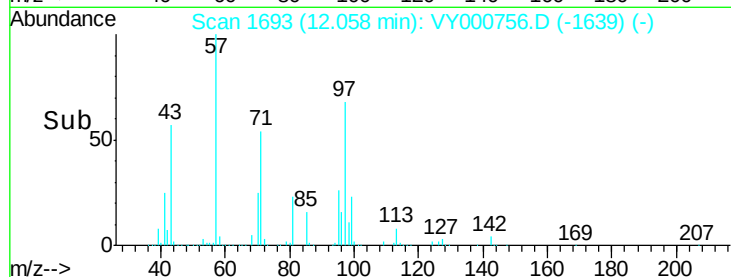
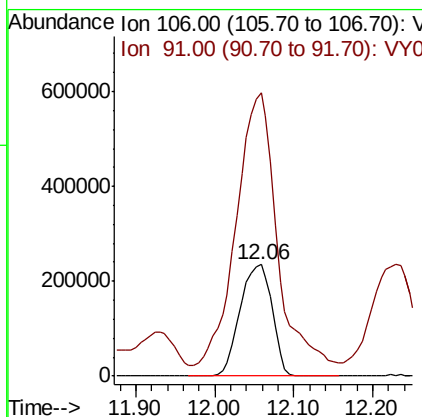
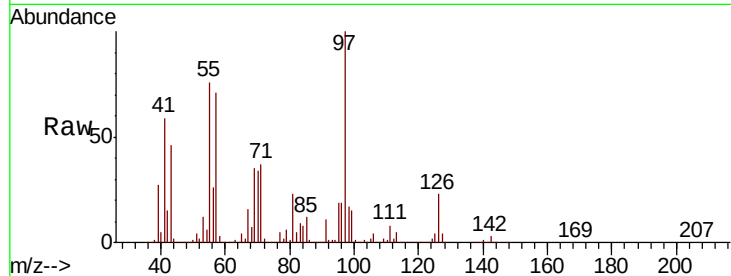
#69
o-Xylene
Concen: 156.362 ug/l
RT: 12.06 min Scan# 1693
Delta R.T. 0.03 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampled :
FD-111919

Tot Ion:106 Resp: 662352
Ion Ratio Lower Upper
106 100
91 306.6 106.5 319.6

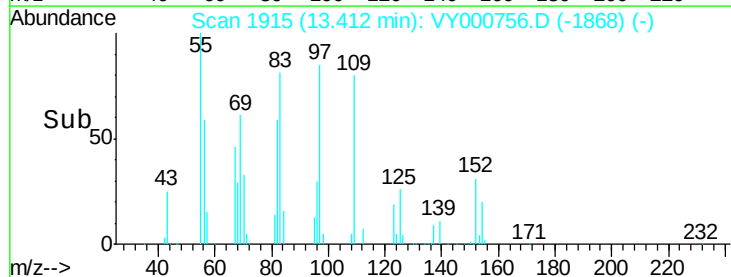
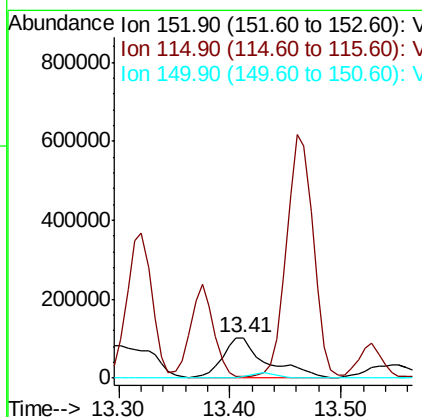
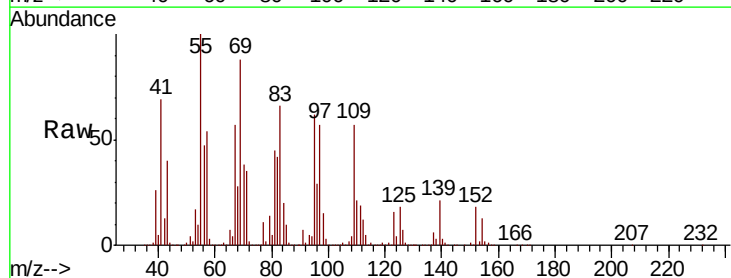
Manual Integrations
APPROVED

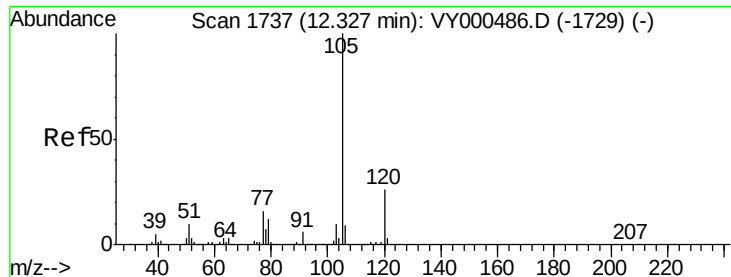
MMDadoda
11/22/2019 12:53:16 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.41 min Scan# 1915
Delta R.T. -0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Tgt Ion:152 Resp: 265433
Ion Ratio Lower Upper
152 100
115 0.0 29.1 87.4#
150 8.4 0.0 348.8





#73

Isopropylbenzene

Concen: 794.338 ug/l

RT: 12.36 min Scan# 1742

Delta R.T. 0.03 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

Instrument :

MSVOA_Y

ClientSampleId :

FD-111919

Tot Ion:105 Resp:15582986

Ion Ratio Lower Upper

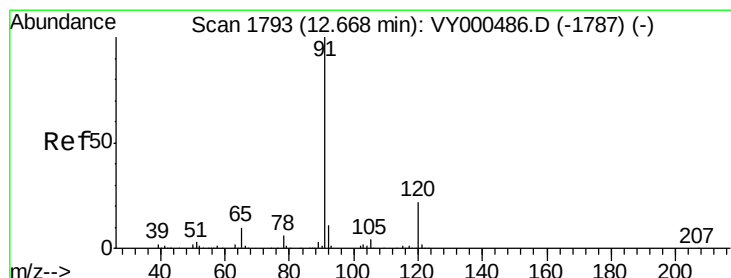
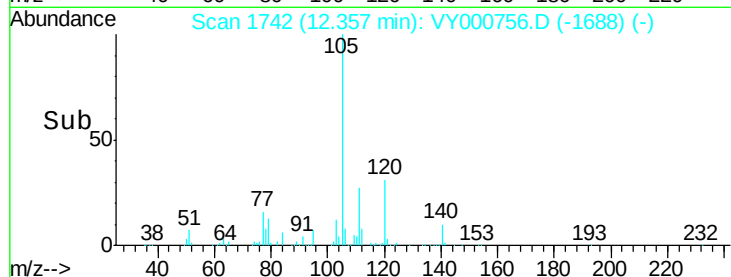
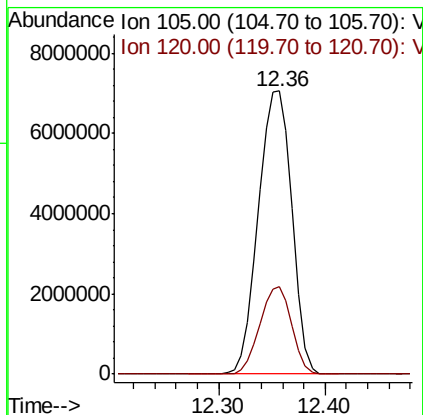
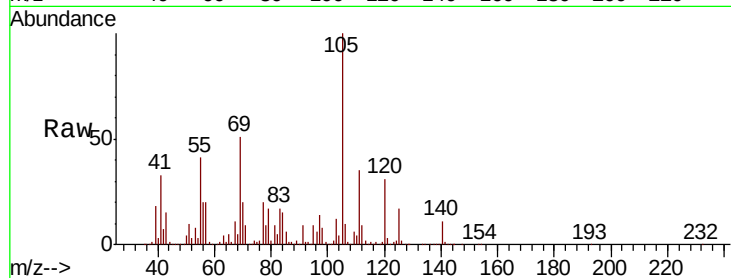
105 100

120 29.1 13.5 40.4

Manual Integrations
APPROVED

MMDadoda

11/22/2019 12:53:16 AM



#78

n-propylbenzene

Concen: 907.997 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.01 min

Lab File: VY000756.D

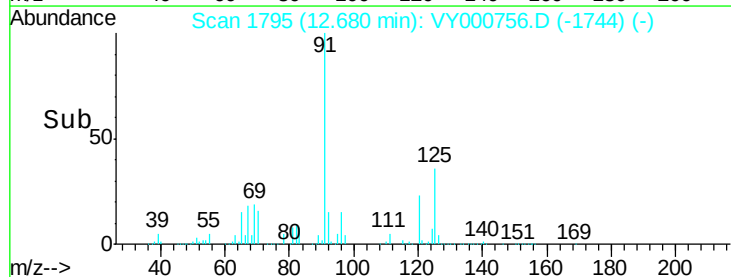
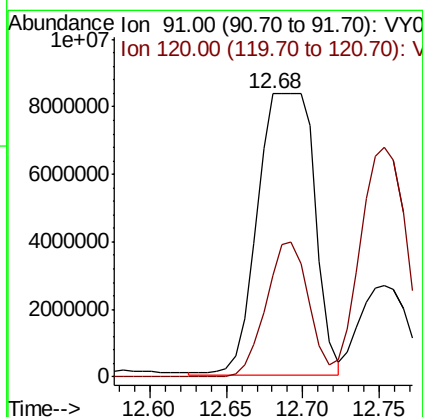
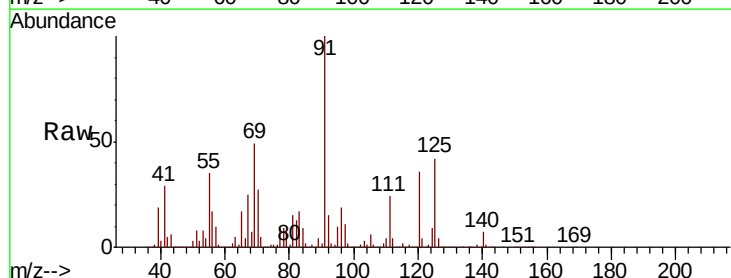
Acq: 20 Nov 2019 16:54

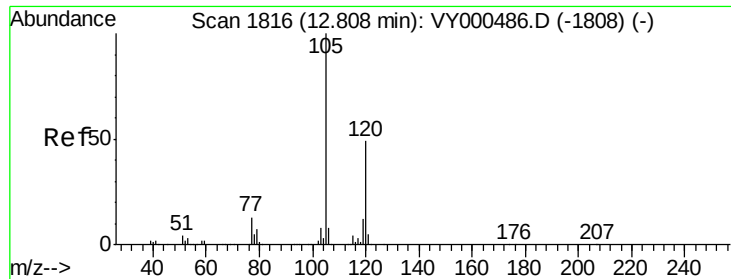
Tgt Ion: 91 Resp:21492424

Ion Ratio Lower Upper

91 100

120 35.8 11.4 34.1#





#80

1,3,5-Trimethylbenzene

Concen: 1295.686 ug/l

RT: 12.82 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

Instrument :

MSVOA_Y

ClientSampled :

FD-111919

Tot Ion:105 Resp:21169523

Ion Ratio Lower Upper

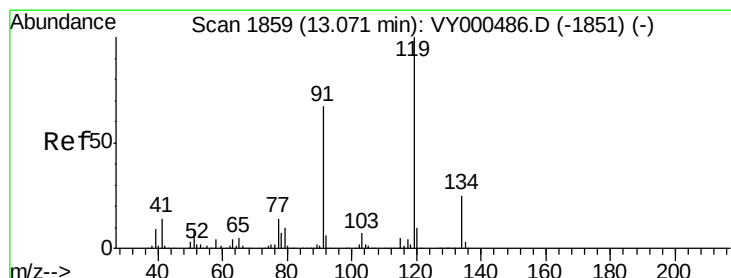
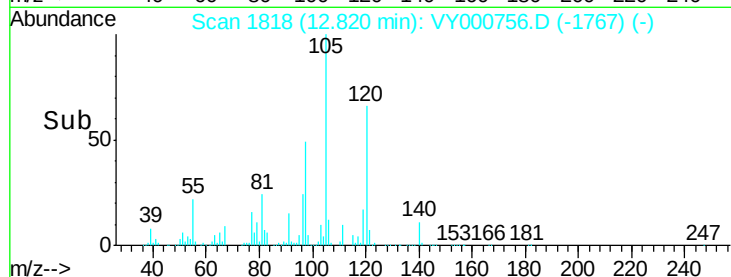
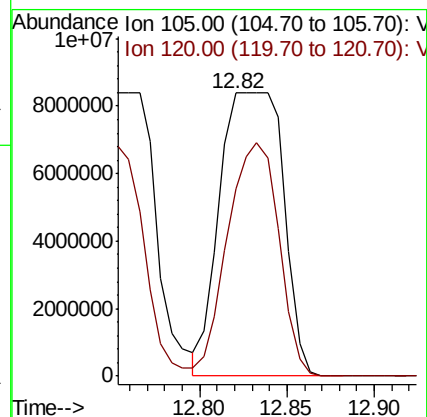
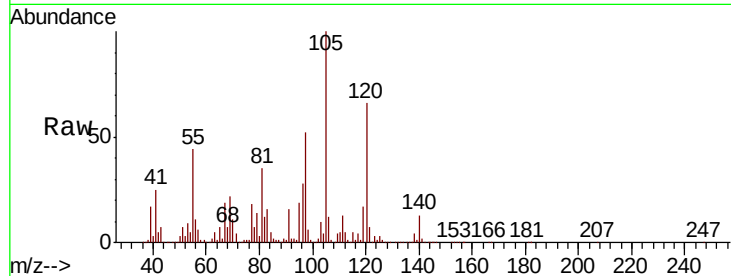
105 100

120 66.2 24.9 74.8

Manual Integrations
APPROVED

MMDadoda

11/22/2019 12:53:16 AM



#83

tert-Butylbenzene

Concen: 94.037 ug/l

RT: 13.08 min Scan# 1861

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

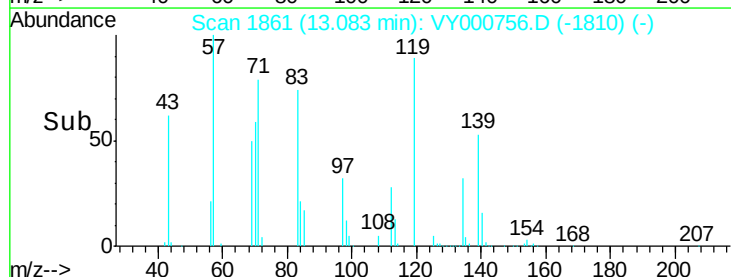
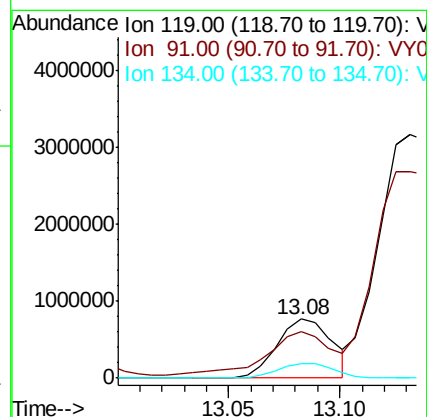
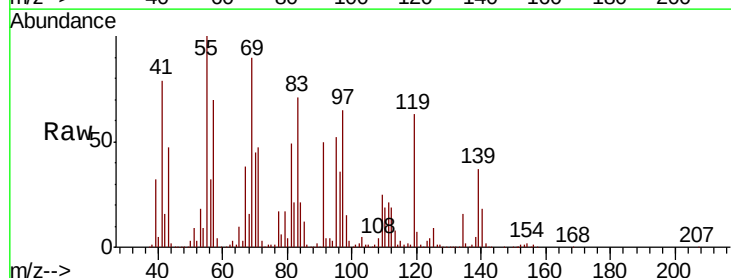
Tgt Ion:119 Resp: 1311851

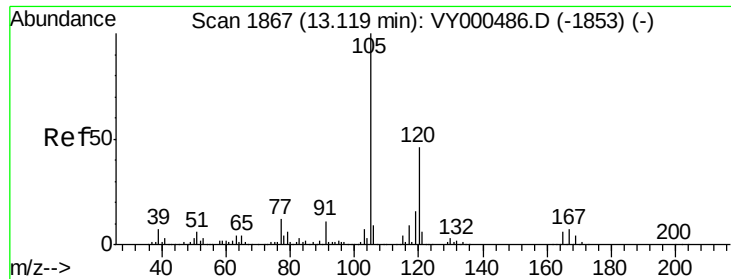
Ion Ratio Lower Upper

119 100

91 83.4 32.1 96.3

134 25.5 13.2 39.5





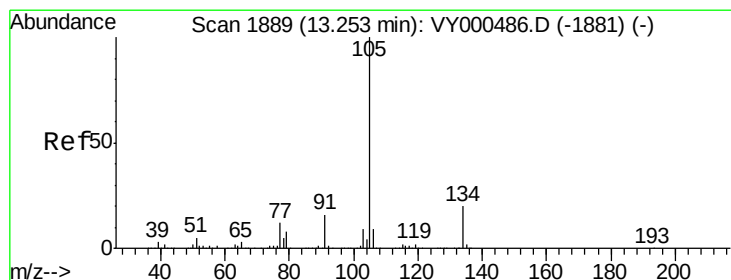
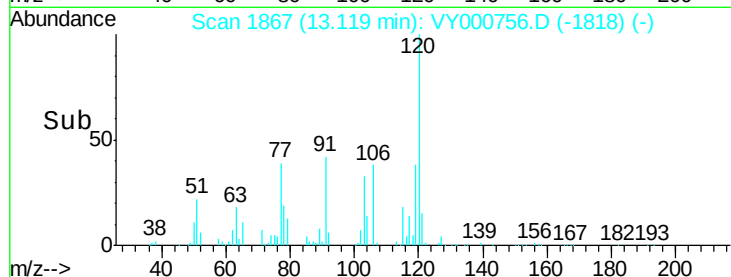
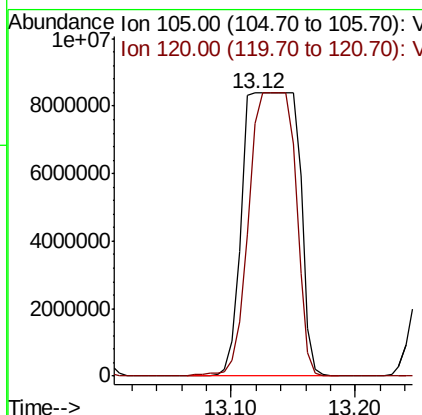
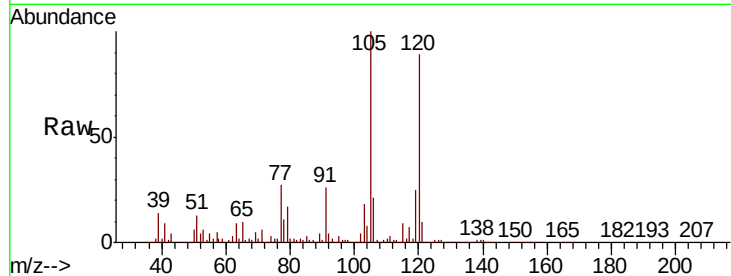
#84
 1,2,4-Trimethylbenzene
 Concen: 1603.117 ug/l m
 RT: 13.12 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VY000756.D
 Acq: 20 Nov 2019 16:54

Instrument :
 MSVOA_Y
 ClientSampleId :
 FD-111919

Tot Ion:105 Resp:26078765
 Ion Ratio Lower Upper
 105 100
 120 4.5 23.3 69.9#

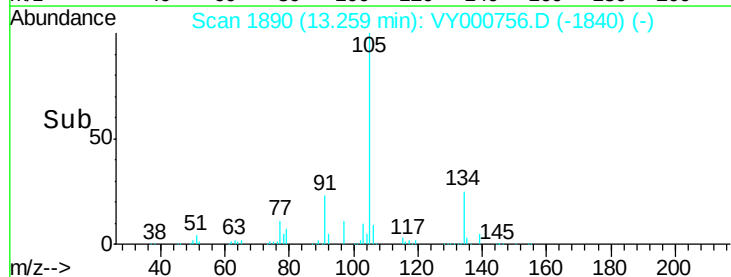
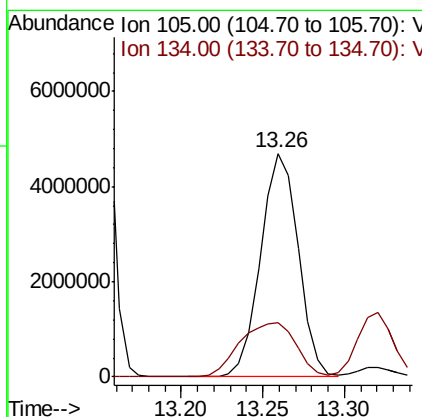
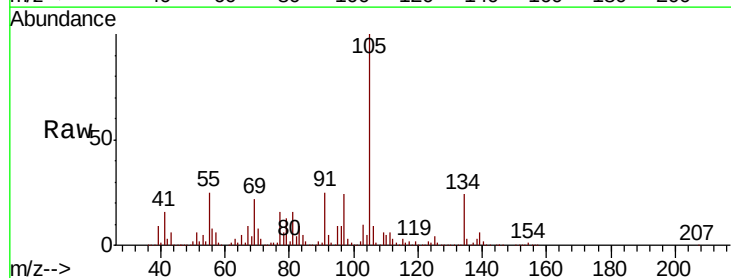
Manual Integrations
 APPROVED

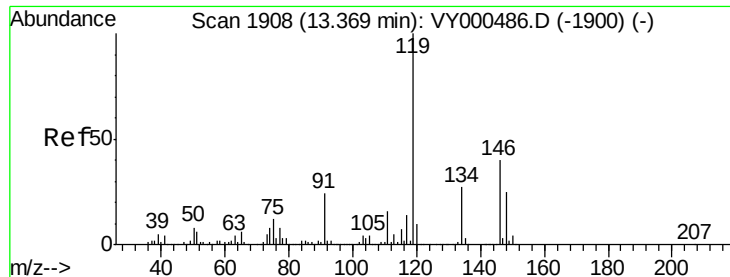
MMDadoda
 11/22/2019 12:53:16 AM



#85
 sec-Butylbenzene
 Concen: 376.219 ug/l
 RT: 13.26 min Scan# 1890
 Delta R.T. 0.01 min
 Lab File: VY000756.D
 Acq: 20 Nov 2019 16:54

Tgt Ion:105 Resp: 7477467
 Ion Ratio Lower Upper
 105 100
 134 36.8 10.1 30.1#





#86

p-Isopropyltoluene

Concen: 240.695 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

Instrument :

MSVOA_Y

ClientSampleId :

FD-111919

Tot Ion:119 Resp: 4263649

Ion Ratio Lower Upper

119 100

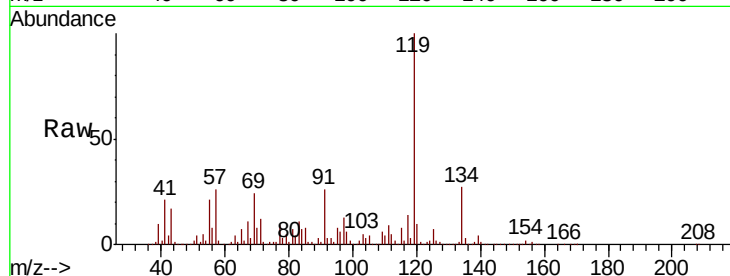
134 27.1 13.6 40.8

91 26.5 12.0 36.1

Manual Integrations
APPROVED

MMDadoda

11/22/2019 12:53:16 AM

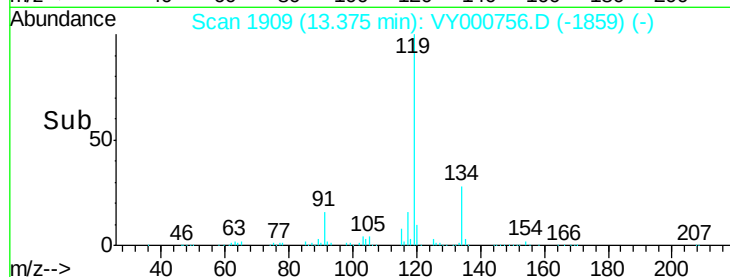


Abundance Ion 119.00 (118.70 to 119.70): VY000486.D (-1900) (-)

Ion 134.00 (133.70 to 134.70): VY000486.D (-1900) (-)

Ion 91.00 (90.70 to 91.70): VY000486.D (-1900) (-)

Time-->



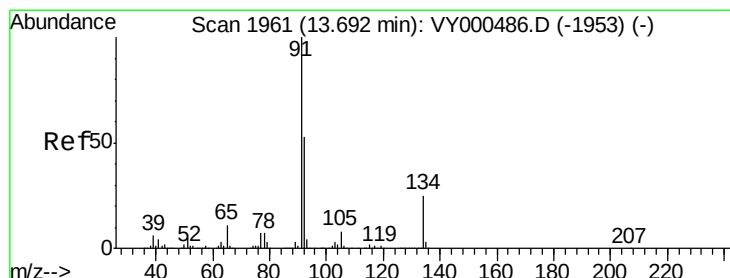
Abundance

Ion 119.00 (118.70 to 119.70): VY000486.D (-1900) (-)

Ion 134.00 (133.70 to 134.70): VY000486.D (-1900) (-)

Ion 91.00 (90.70 to 91.70): VY000486.D (-1900) (-)

Time-->



#89

n-Butylbenzene

Concen: 157.155 ug/l m

RT: 13.70 min Scan# 1962

Delta R.T. 0.01 min

Lab File: VY000756.D

Acq: 20 Nov 2019 16:54

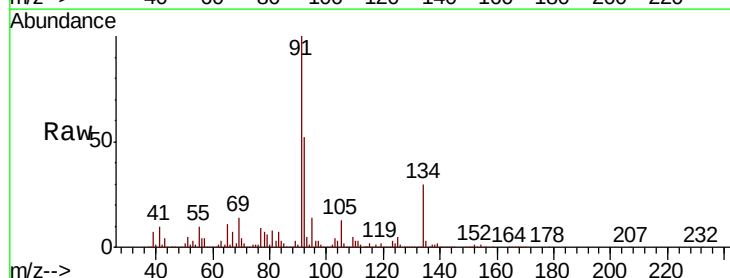
Tgt Ion: 91 Resp: 2745698

Ion Ratio Lower Upper

91 100

92 54.7 26.8 80.3

134 0.0 12.9 38.7#

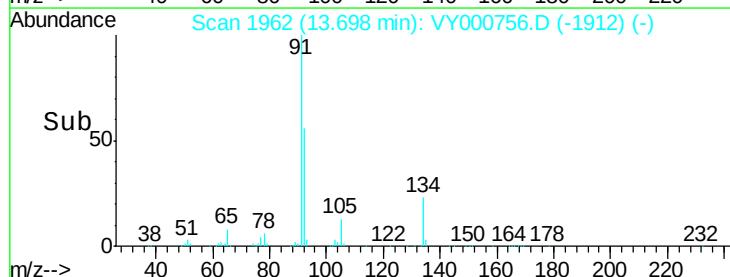


Abundance Ion 91.00 (90.70 to 91.70): VY000486.D (-1953) (-)

Ion 92.00 (91.70 to 92.70): VY000486.D (-1953) (-)

Ion 134.00 (133.70 to 134.70): VY000486.D (-1953) (-)

Time-->



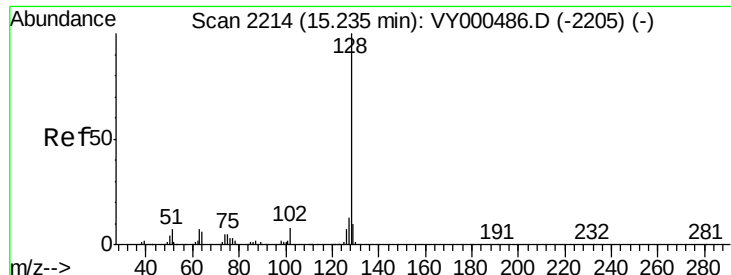
Abundance

Ion 91.00 (90.70 to 91.70): VY000486.D (-1953) (-)

Ion 92.00 (91.70 to 92.70): VY000486.D (-1953) (-)

Ion 134.00 (133.70 to 134.70): VY000486.D (-1953) (-)

Time-->



#95
Naphthalene
Concen: 15.036 ug/l
RT: 15.23 min Scan# 2213
Delta R.T. -0.01 min
Lab File: VY000756.D
Acq: 20 Nov 2019 16:54

Instrument :
MSVOA_Y
ClientSampleId :
FD-111919

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.5	9.8	14.6
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/22/2019 12:53:16 AM

