

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082219\
 Data File : VD063745.D
 Acq On : 22 Aug 2019 20:37
 Operator : JC/SY
 Sample : K4418-04RE
 Misc : 5.10g/5ml/MSVOA D/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CFVP-228LRE

Quant Time: Aug 23 07:39:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D080919S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 10 06:42:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	686653	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.22	114	966268	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	527107	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	133385	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	441905	60.21	ug/l	-0.02
Spiked Amount			Recovery	=	120.42%	
35) Dibromofluoromethane	6.92	113	516118	63.42	ug/l	-0.02
Spiked Amount			Recovery	=	126.84%	
50) Toluene-d8	10.41	98	926272	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
62) 4-Bromofluorobenzene	13.55	95	220055	27.14	ug/l	0.00
Spiked Amount			Recovery	=	54.28%	

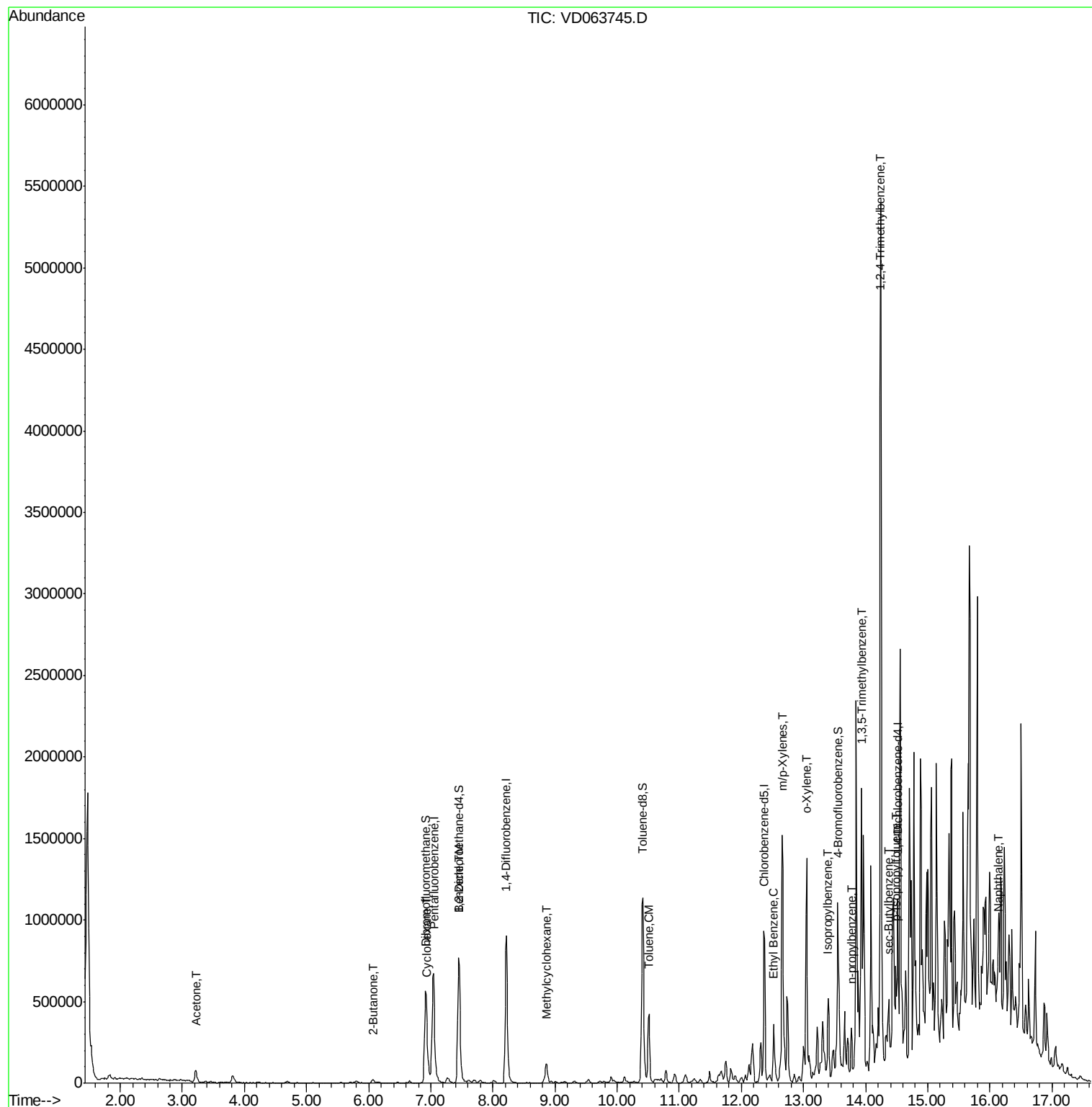
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	139152	93.263	ug/l #	85
25) 2-Butanone	6.07	43	37081	25.164	ug/l	96
31) Cyclohexane	6.95	56	20412	3.080	ug/l #	82
39) Methylcyclohexane	8.87	83	58510	8.055	ug/l	98
40) Benzene	7.45	78	459964	24.469	ug/l	95
52) Toluene	10.51	92	212903	17.584	ug/l	99
67) Ethyl Benzene	12.52	91	226208	13.169	ug/l	98
68) m/p-Xylenes	12.66	106	415110	68.783	ug/l	97
69) o-Xylene	13.05	106	302715	52.116	ug/l	99
73) Isopropylbenzene	13.40	105	121284	14.296	ug/l	94
78) n-propylbenzene	13.77	91	186910	18.829	ug/l	94
80) 1,3,5-Trimethylbenzene	13.94	105	826382	111.480	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	2448310	356.958	ug/l	95
85) sec-Butylbenzene	14.37	105	109112	13.162	ug/l	97
86) p-Isopropyltoluene	14.49	119	252153	31.812	ug/l	97
95) Naphthalene	16.12	128	149321	37.630	ug/l	95

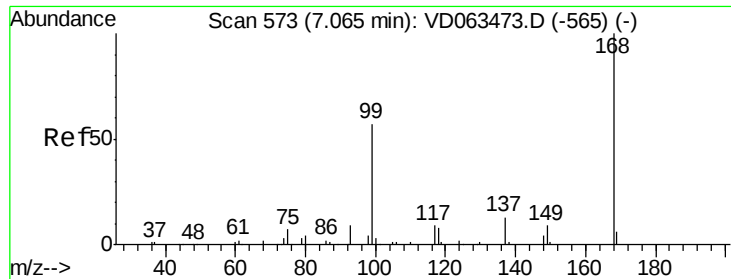
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

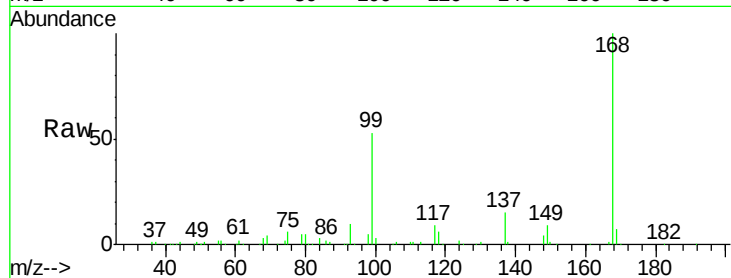
CFVP-228LRE

Tot Ion:168 Resp: 686653

Ion Ratio Lower Upper

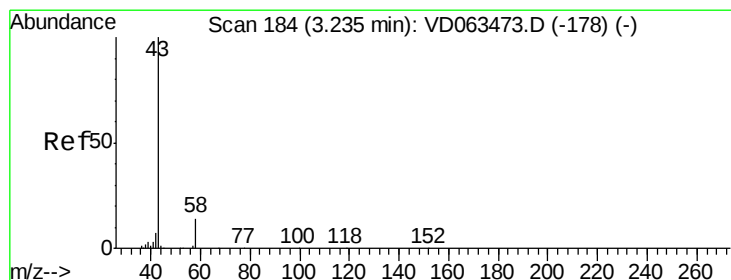
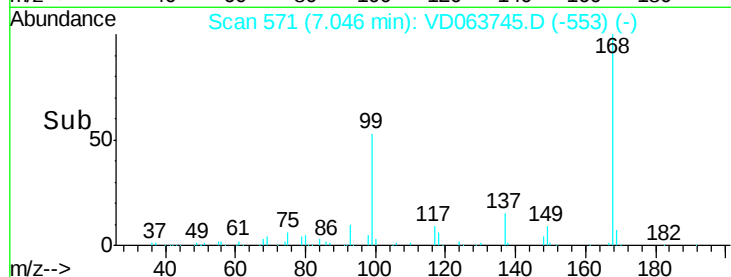
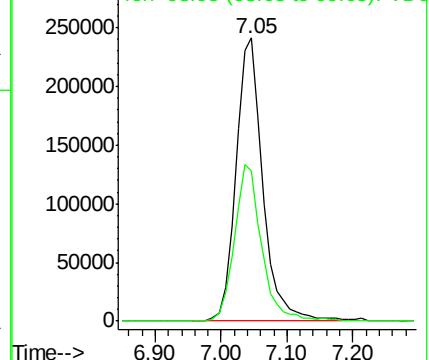
168 100

99 53.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 93.263 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD063745.D

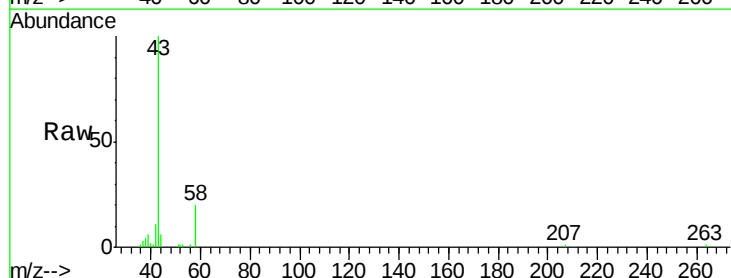
Acq: 22 Aug 2019 20:37

Tgt Ion: 43 Resp: 139152

Ion Ratio Lower Upper

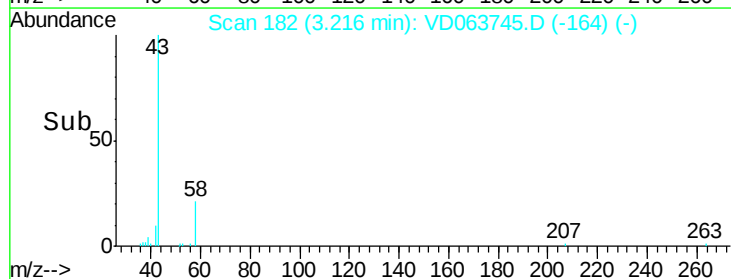
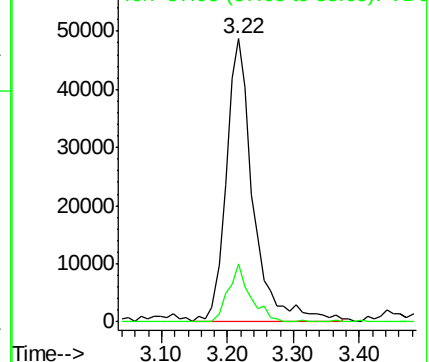
43 100

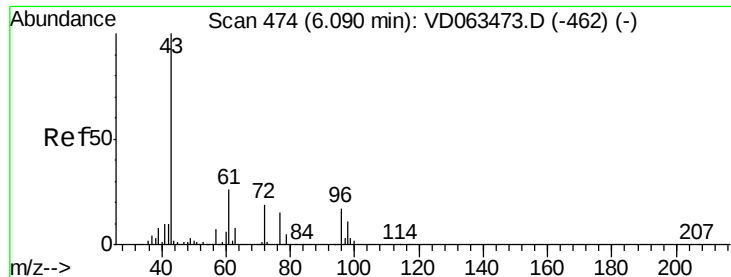
58 20.4 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

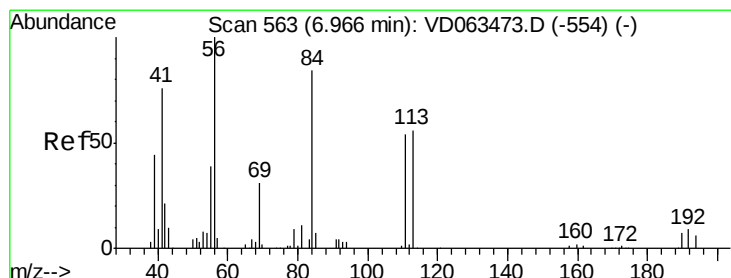
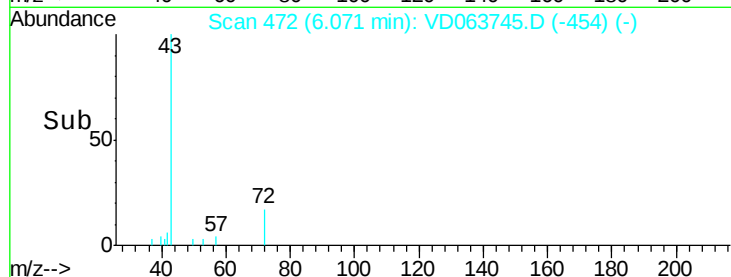
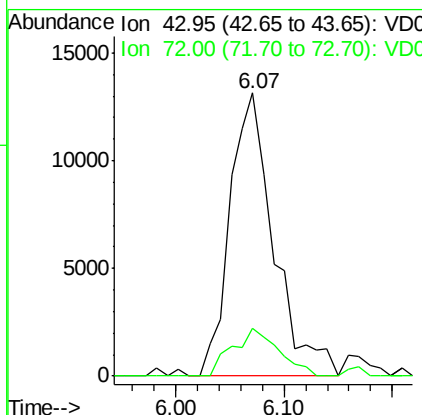
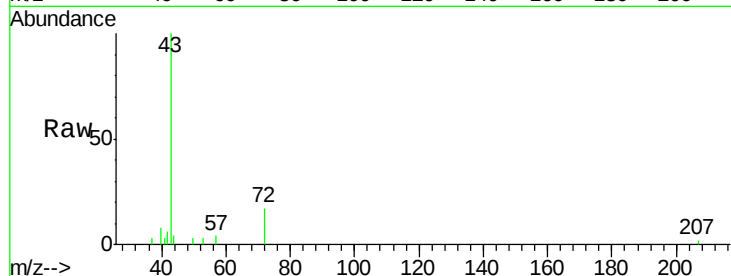




#25
2-Butanone
Concen: 25.164 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.02 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

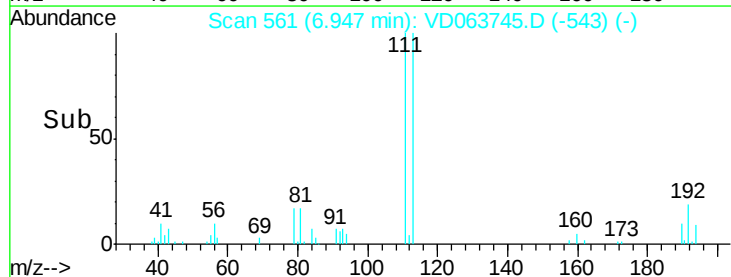
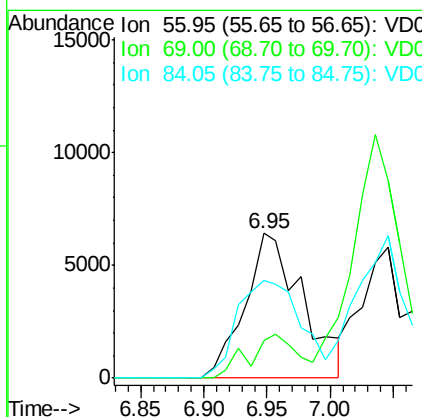
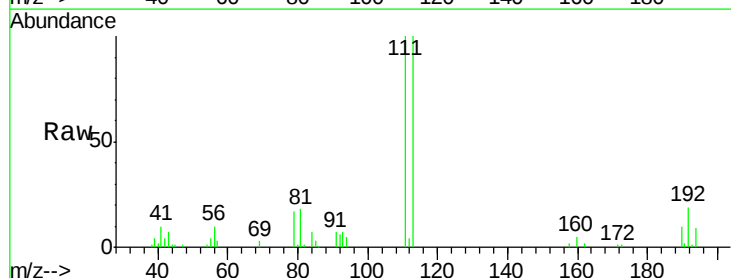
Instrument :
MSVOA_D
ClientSampleId :
CFVP-228LRE

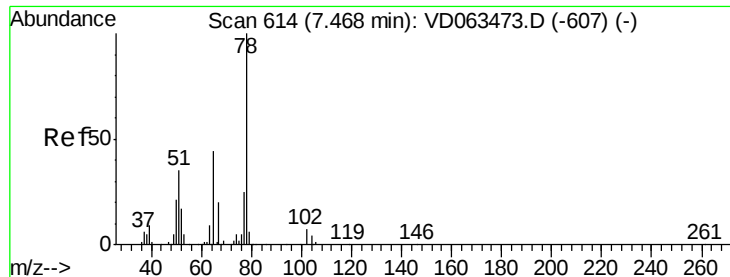
Tot Ion: 43 Resp: 37081
Ion Ratio Lower Upper
43 100
72 17.0 15.1 22.7



#31
Cyclohexane
Concen: 3.080 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.02 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

Tgt Ion: 56 Resp: 20412
Ion Ratio Lower Upper
56 100
69 25.7 25.0 37.6
84 67.6 69.7 104.5#





#33

1,2-Dichloroethane-d4

Concen: 60.207 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

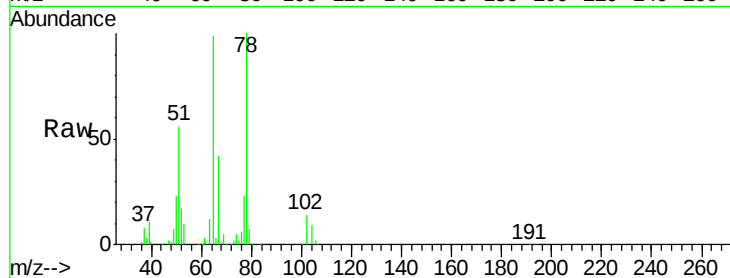
CFVP-228LRE

Tot Ion: 65 Resp: 441905

Ion Ratio Lower Upper

65 100

67 41.9 0.0 89.2



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

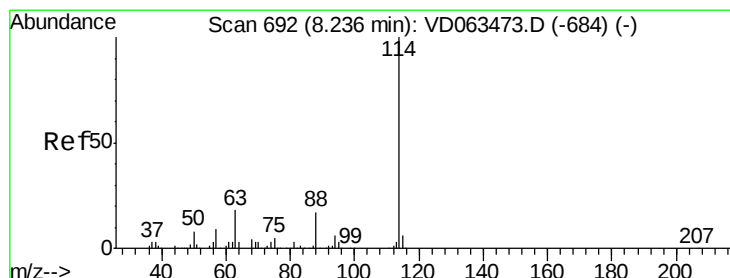
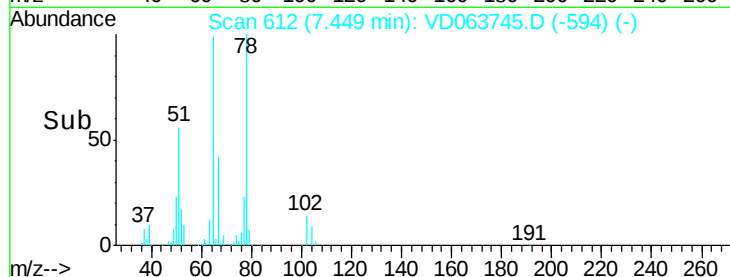
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

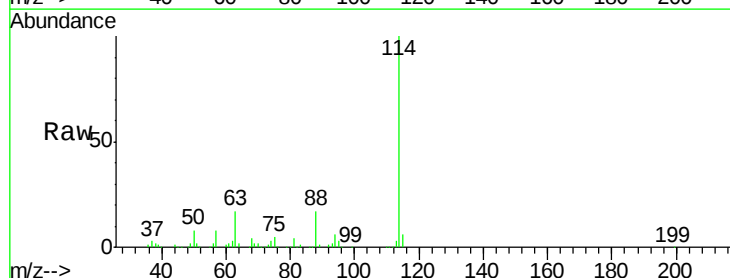
Tgt Ion: 114 Resp: 966268

Ion Ratio Lower Upper

114 100

63 17.0 0.0 36.2

88 16.5 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

500000

400000

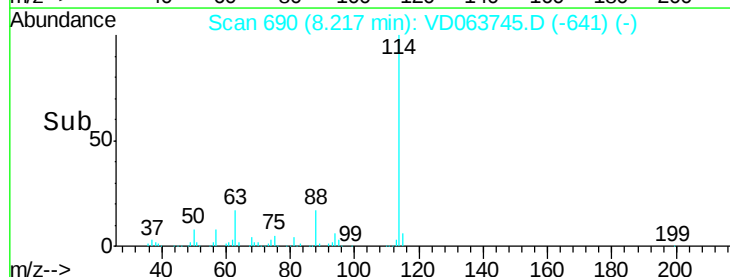
300000

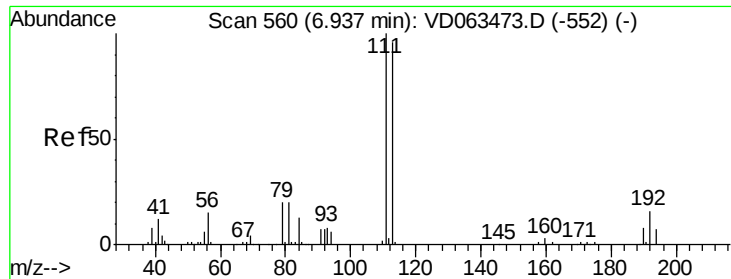
200000

100000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 63.421 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

CFVP-228LRE

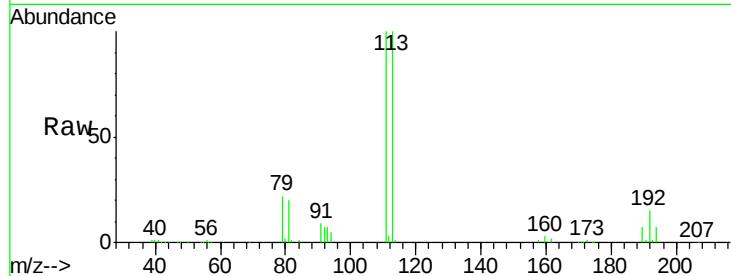
Tot Ion:113 Resp: 516118

Ion Ratio Lower Upper

113 100

111 100.2 83.1 124.7

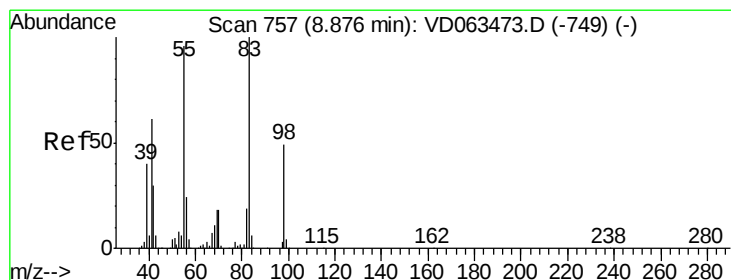
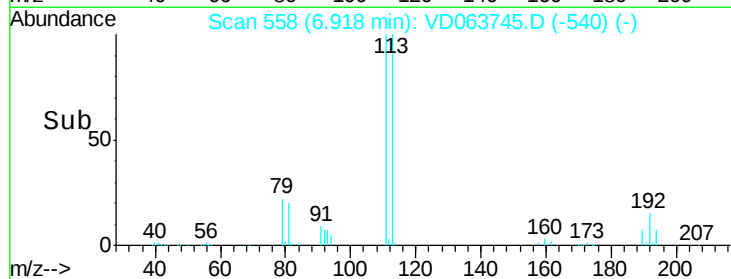
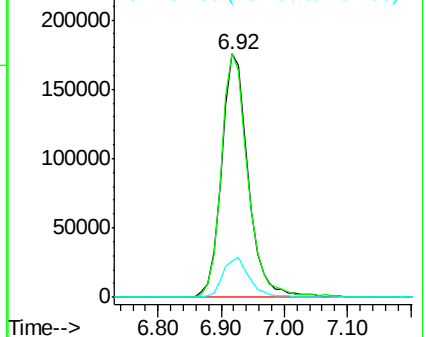
192 15.0 13.1 19.7



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#39

Methylcyclohexane

Concen: 8.055 ug/l

RT: 8.87 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

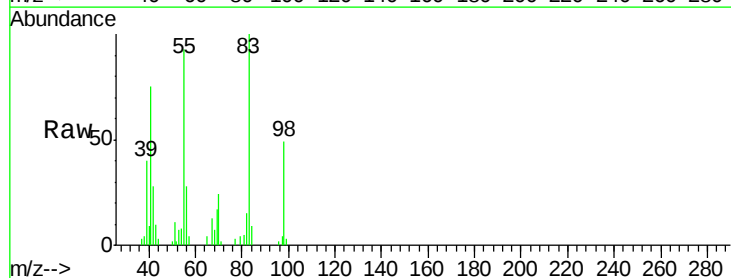
Tgt Ion: 83 Resp: 58510

Ion Ratio Lower Upper

83 100

55 92.5 76.6 114.8

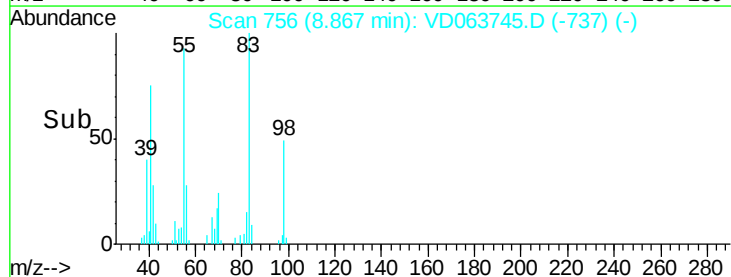
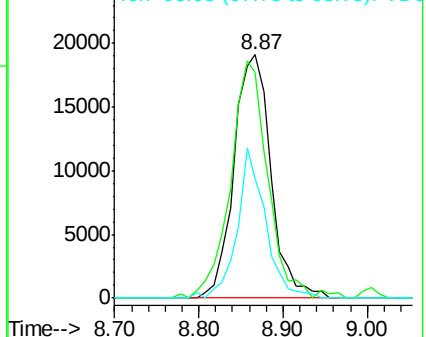
98 49.0 39.4 59.0

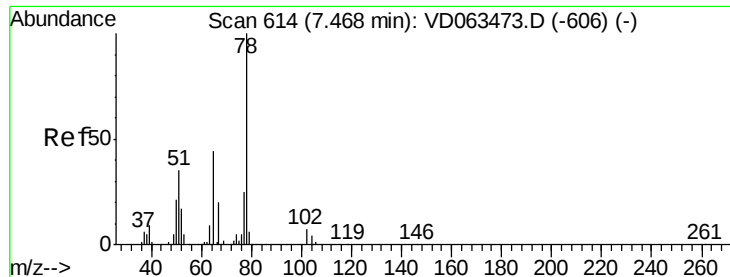


Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC





#40

Benzene

Concen: 24.469 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

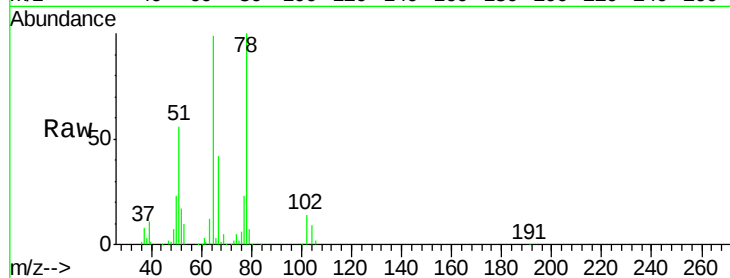
CFVP-228LRE

Tot Ion: 78 Resp: 459964

Ion Ratio Lower Upper

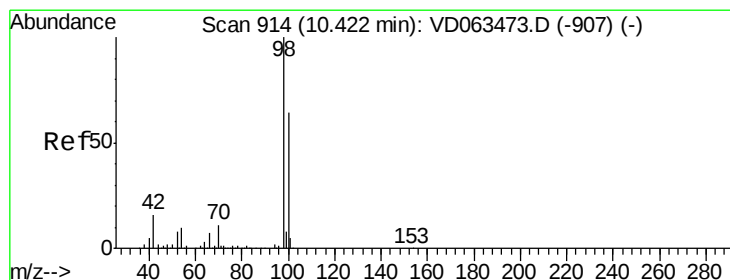
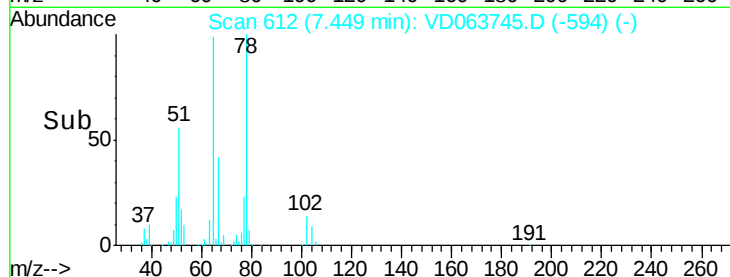
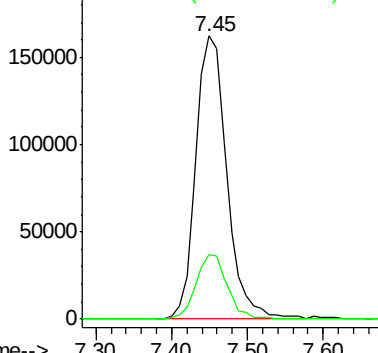
78 100

77 22.6 20.1 30.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: 51.771 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.01 min

Lab File: VD063745.D

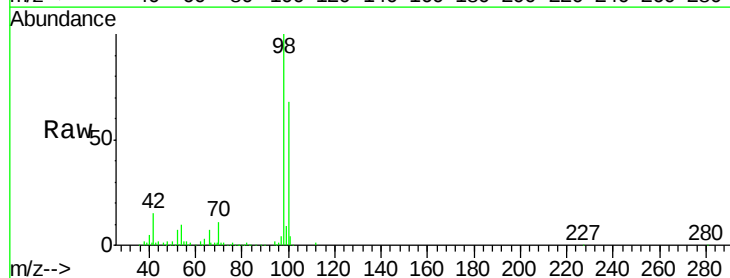
Acq: 22 Aug 2019 20:37

Tgt Ion: 98 Resp: 926272

Ion Ratio Lower Upper

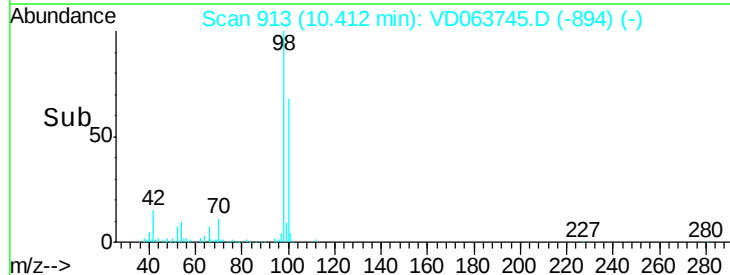
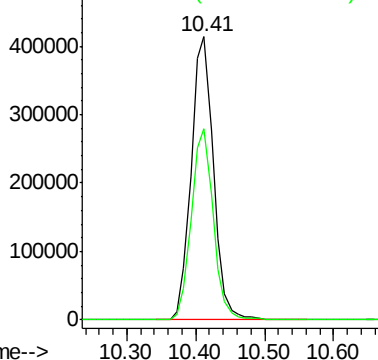
98 100

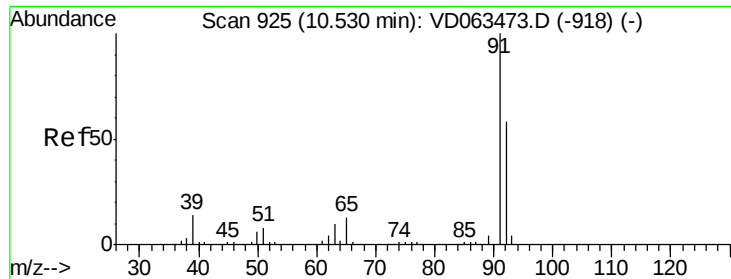
100 67.5 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#52

Toluene

Concen: 17.584 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

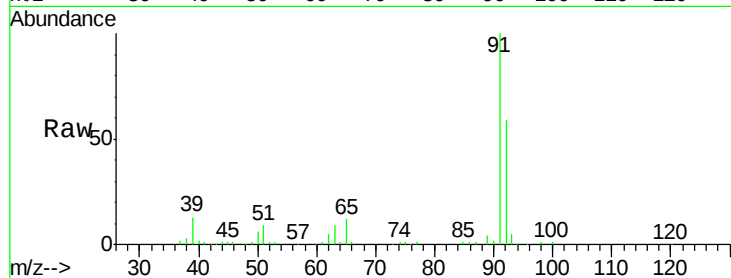
CFVP-228LRE

Tot Ion: 92 Resp: 212903

Ion Ratio Lower Upper

92 100

91 170.4 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

200000

150000

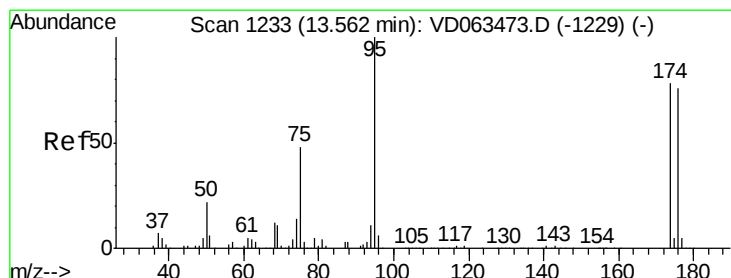
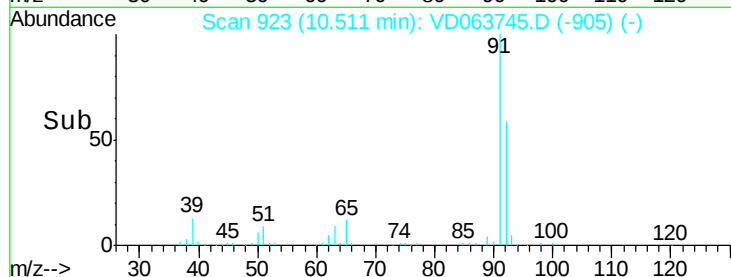
100000

50000

0

10.40 10.50 10.60 10.70

Time-->



#62

4-Bromofluorobenzene

Concen: 27.136 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

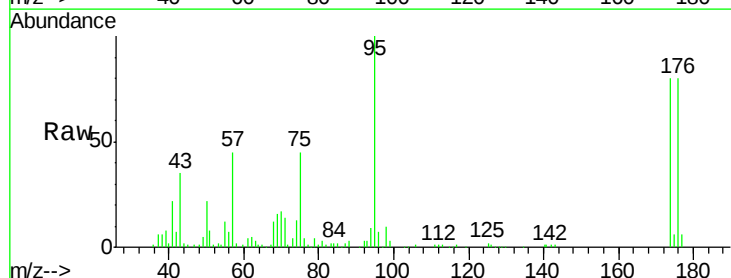
Tgt Ion: 95 Resp: 220055

Ion Ratio Lower Upper

95 100

174 79.6 0.0 155.4

176 79.7 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

200000

150000

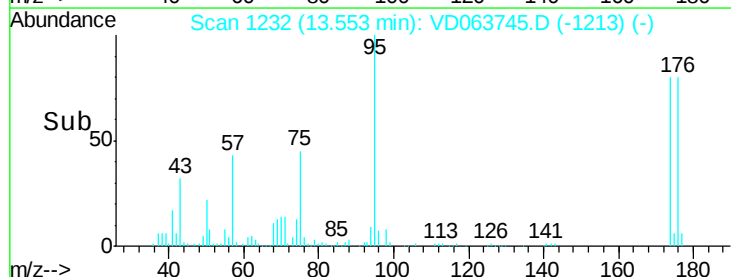
100000

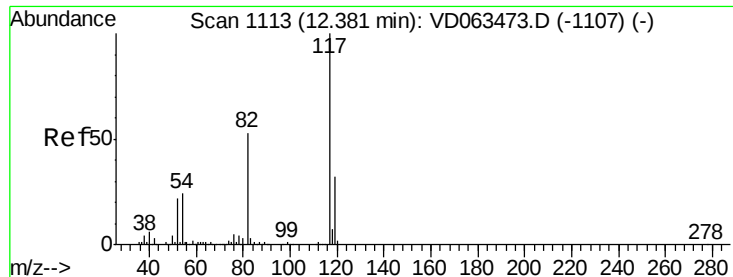
50000

0

13.50 13.55 13.60

Time-->

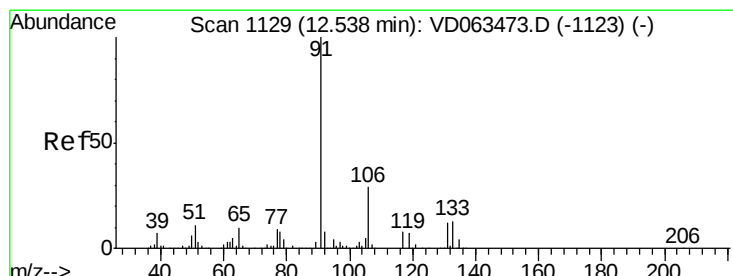
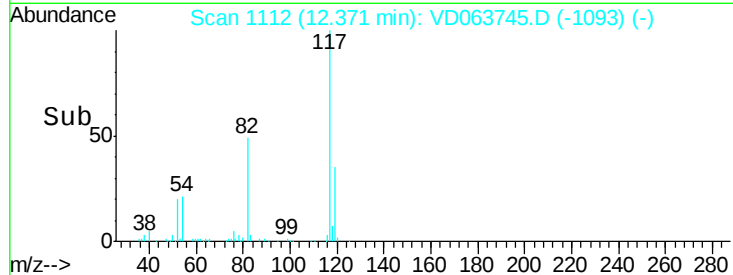
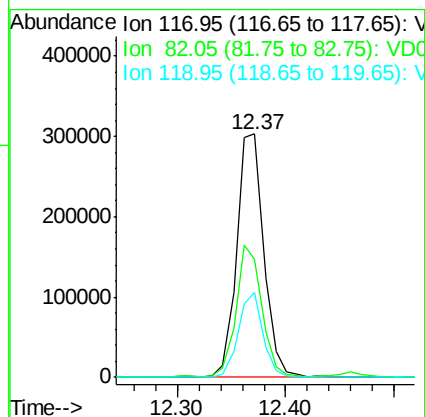
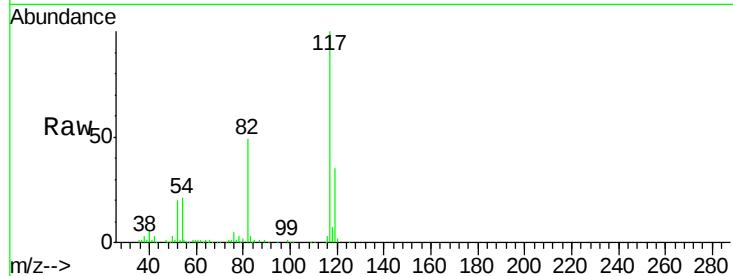




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

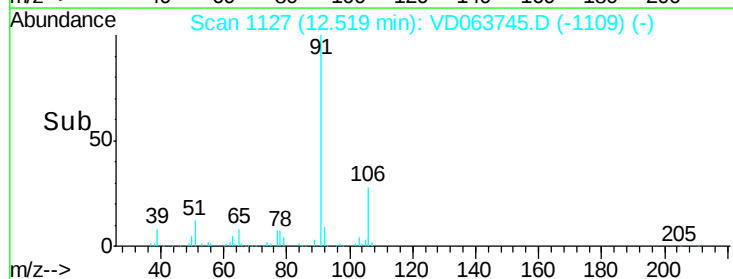
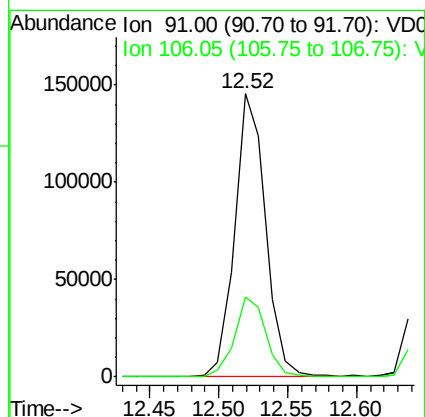
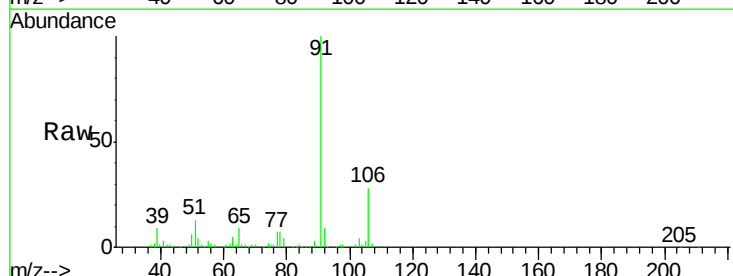
Instrument :
MSVOA_D
ClientSampleId :
CFVP-228LRE

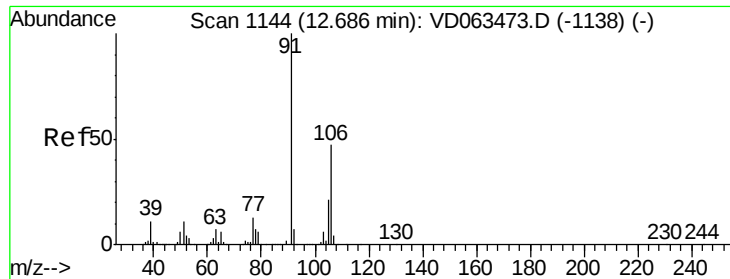
Tot Ion:117 Resp: 527107
Ion Ratio Lower Upper
117 100
82 48.7 42.0 63.0
119 34.8 25.4 38.0



#67
Ethyl Benzene
Concen: 13.169 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.02 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

Tgt Ion: 91 Resp: 226208
Ion Ratio Lower Upper
91 100
106 28.0 23.1 34.7

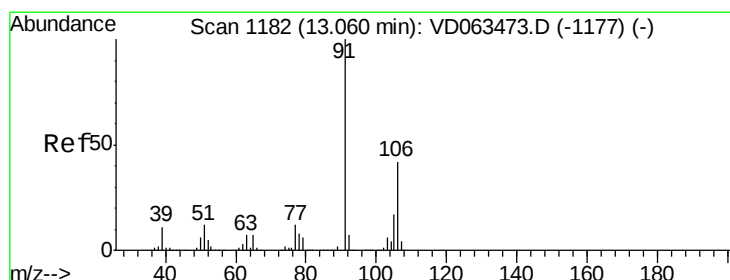
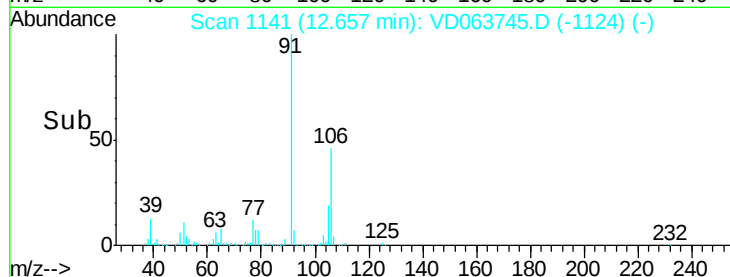
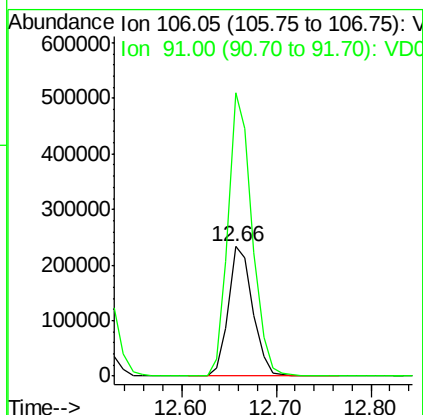
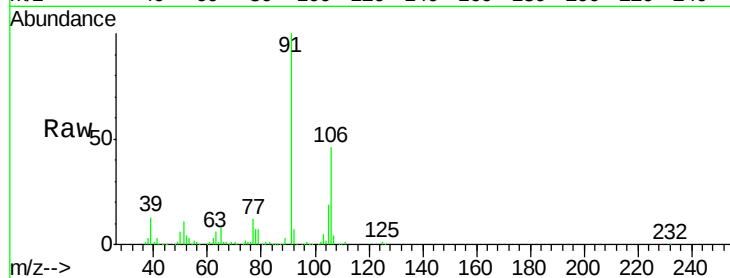




#68
m/p-Xylenes
Concen: 68.783 ug/l
RT: 12.66 min Scan# 1141
Delta R.T. -0.03 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

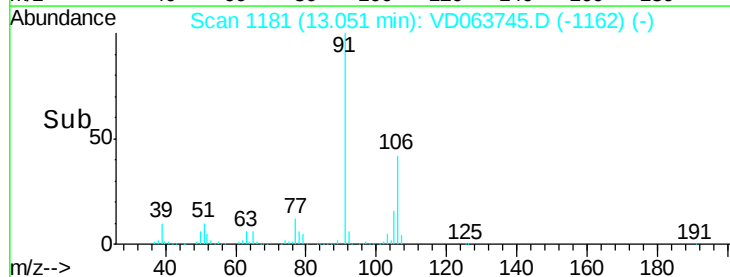
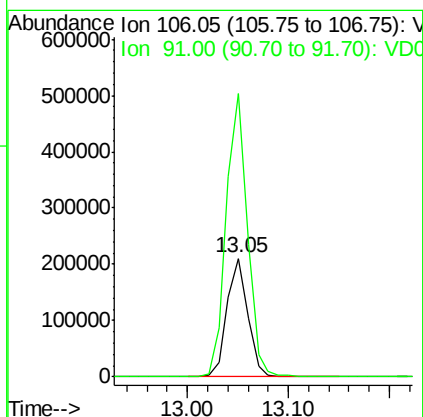
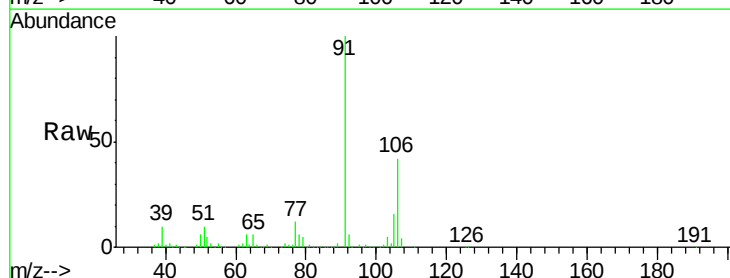
Instrument :
MSVOA_D
ClientSampleId :
CFVP-228LRE

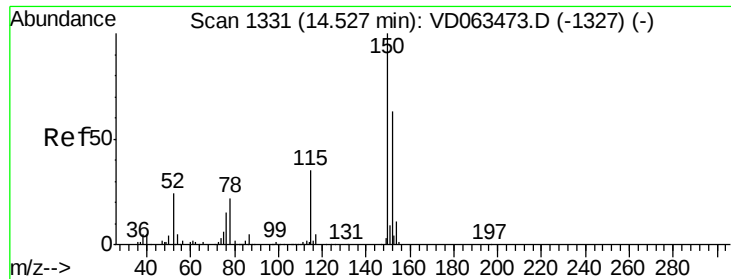
Tot Ion:106 Resp: 415110
Ion Ratio Lower Upper
106 100
91 218.8 171.8 257.8



#69
o-Xylene
Concen: 52.116 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

Tgt Ion:106 Resp: 302715
Ion Ratio Lower Upper
106 100
91 238.6 118.1 354.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

CFVP-228LRE

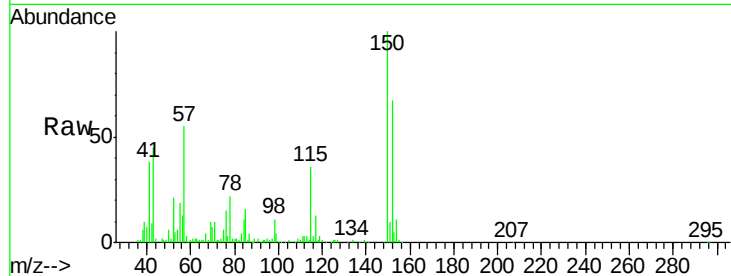
Tot Ion:152 Resp: 133385

Ion Ratio Lower Upper

152 100

115 54.7 30.9 92.7

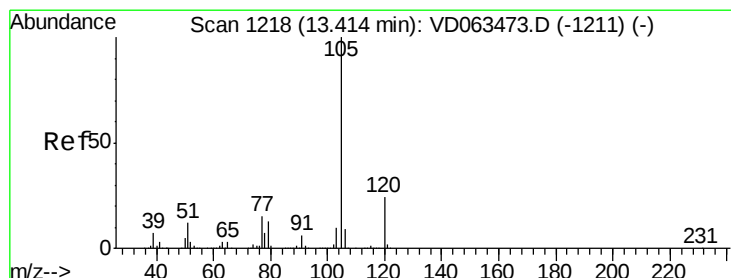
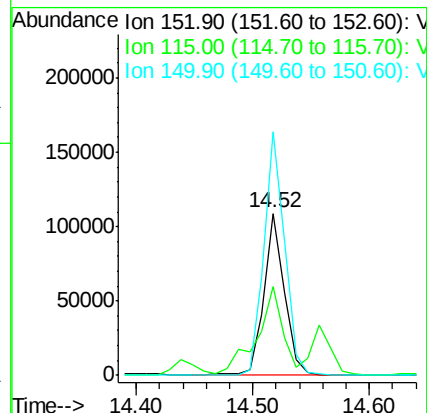
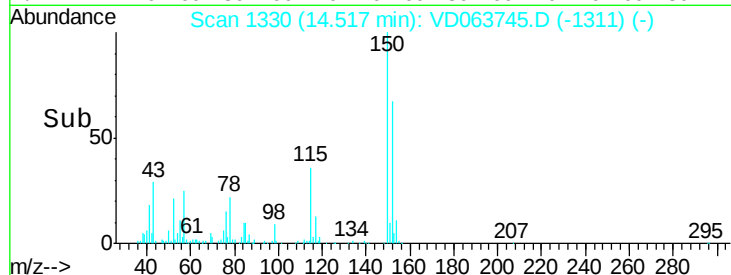
150 150.2 0.0 318.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 14.296 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD063745.D

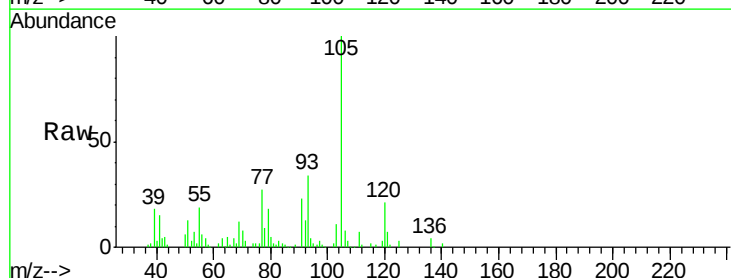
Acq: 22 Aug 2019 20:37

Tgt Ion:105 Resp: 121284

Ion Ratio Lower Upper

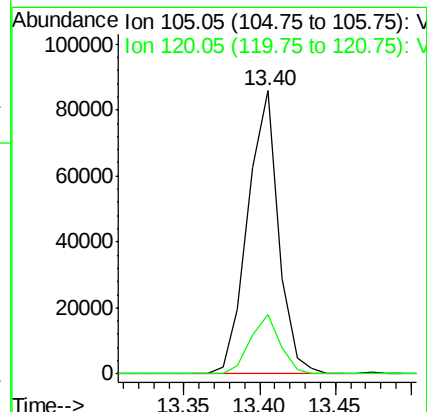
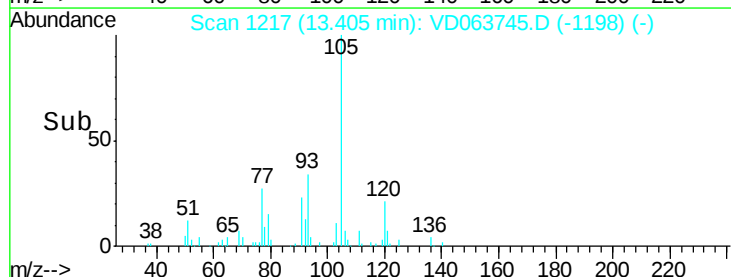
105 100

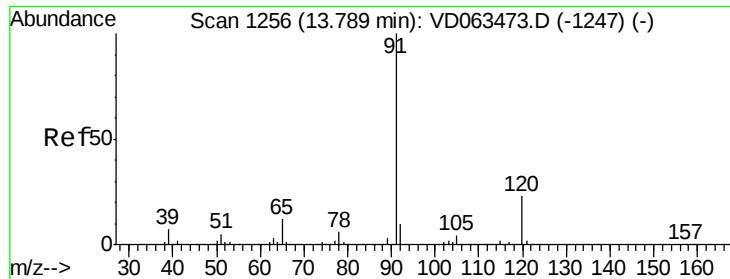
120 21.0 11.9 35.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

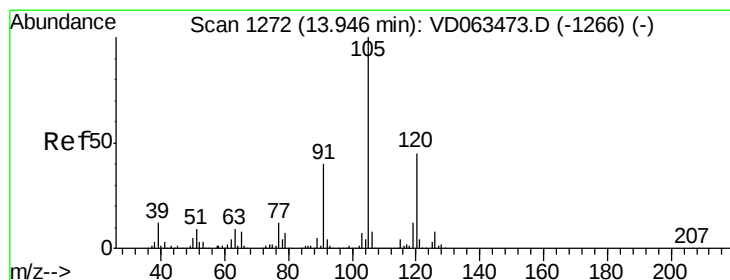
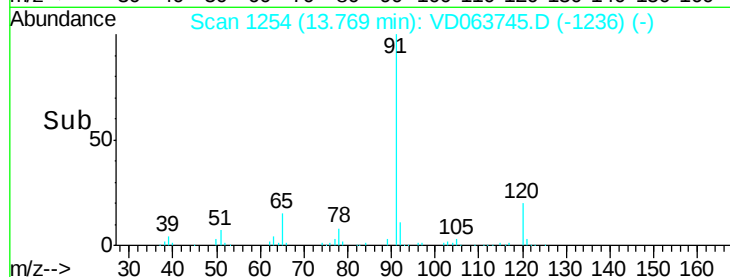
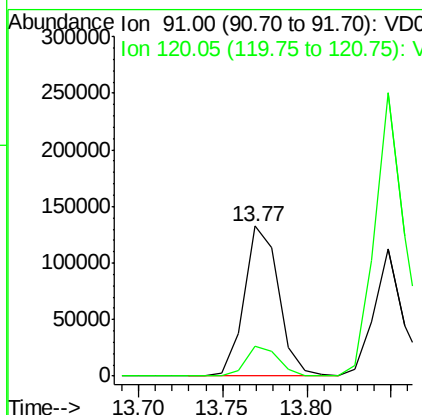
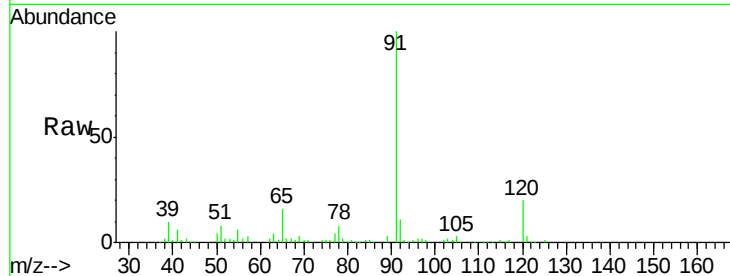




#78
n-propylbenzene
Concen: 18.829 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. -0.02 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

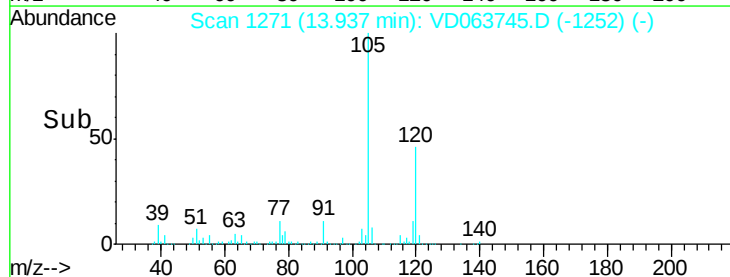
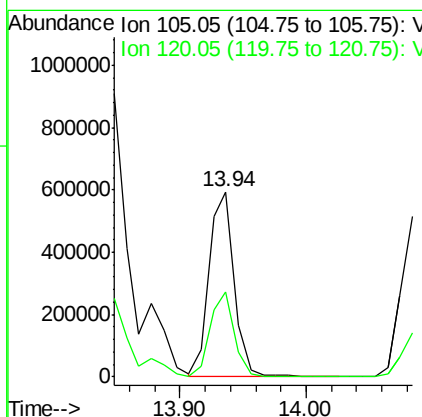
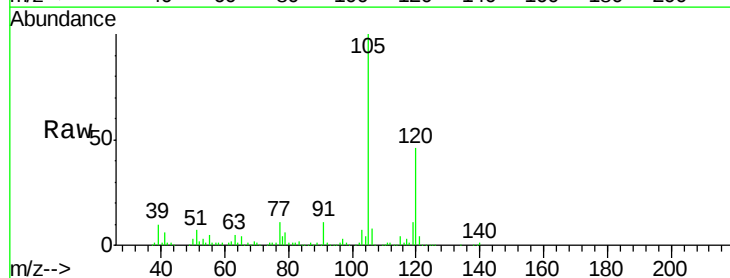
Instrument :
MSVOA_D
ClientSampleId :
CFVP-228LRE

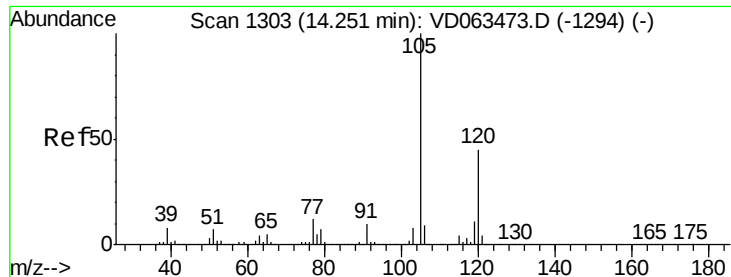
Tot Ion: 91 Resp: 186910
Ion Ratio Lower Upper
91 100
120 19.7 11.3 33.9



#80
1,3,5-Trimethylbenzene
Concen: 111.480 ug/l
RT: 13.94 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VD063745.D
Acq: 22 Aug 2019 20:37

Tgt Ion: 105 Resp: 826382
Ion Ratio Lower Upper
105 100
120 45.9 22.8 68.3





#84

1,2,4-Trimethylbenzene

Concen: 356.958 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD063745.D

Acq: 22 Aug 2019 20:37

Instrument :

MSVOA_D

ClientSampleId :

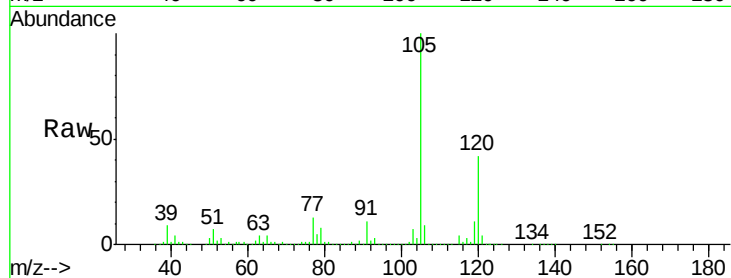
CFVP-228LRE

Tot Ion:105 Resp: 2448310

Ion Ratio Lower Upper

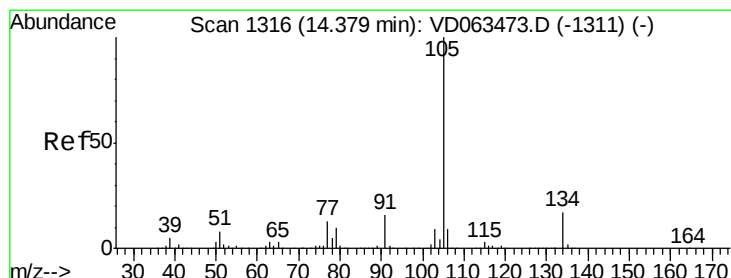
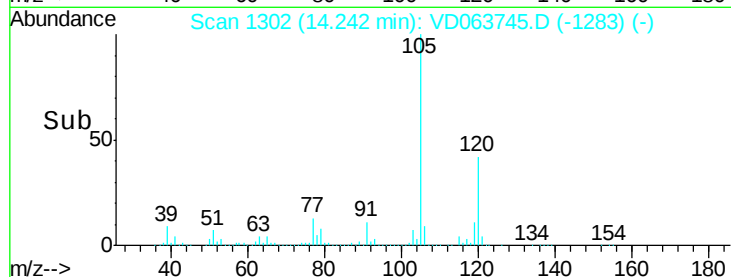
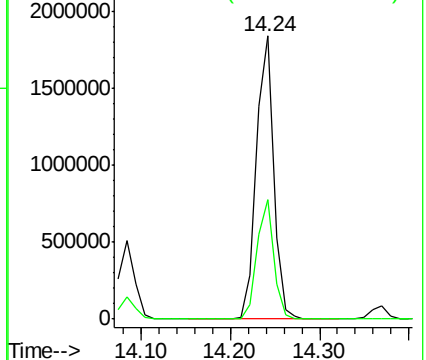
105 100

120 42.4 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 13.162 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VD063745.D

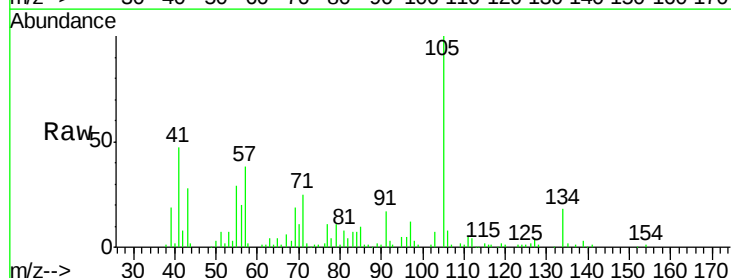
Acq: 22 Aug 2019 20:37

Tgt Ion:105 Resp: 109112

Ion Ratio Lower Upper

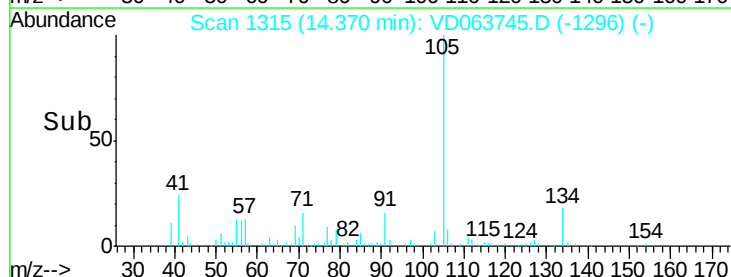
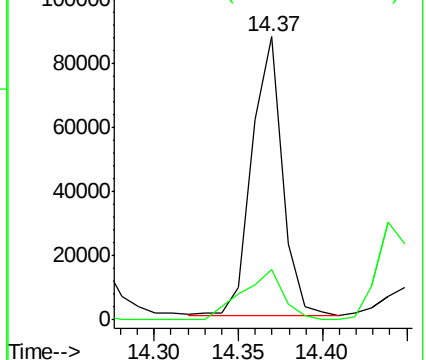
105 100

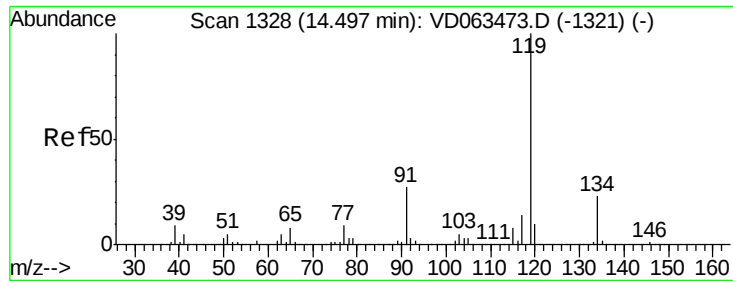
134 17.7 8.3 24.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

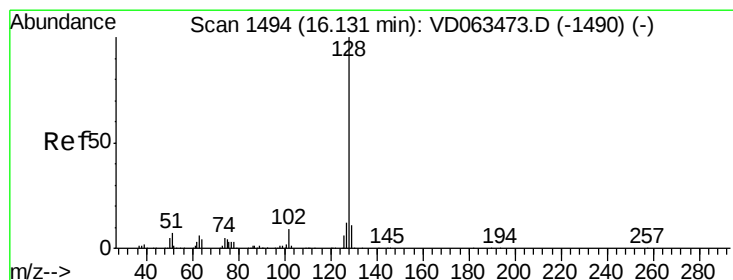
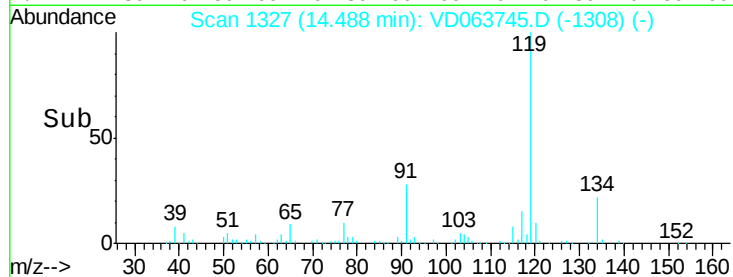
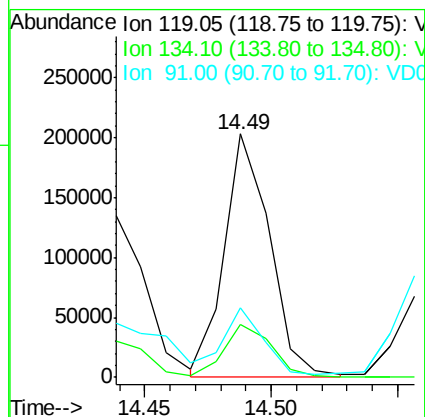
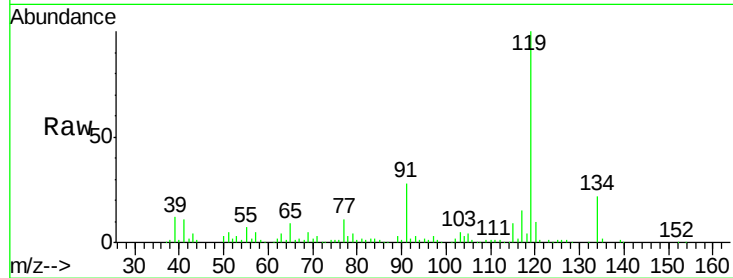




#86
 p-Isopropyltoluene
 Concen: 31.812 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.01 min
 Lab File: VD063745.D
 Acq: 22 Aug 2019 20:37

Instrument :
 MSVOA_D
 ClientSampleId :
 CFVP-228LRE

Tot Ion:	119	Resp:	252153
Ion	Ratio	Lower	Upper
119	100		
134	21.5	11.3	33.8
91	28.4	13.5	40.4



#95
 Naphthalene
 Concen: 37.630 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VD063745.D
 Acq: 22 Aug 2019 20:37

Tgt Ion:	128	Resp:	149321
Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.4	14.0
129	12.4	8.5	12.7

