

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062119\
 Data File : VD062820.D
 Acq On : 21 Jun 2019 16:59
 Operator : VA/AP
 Sample : K3482-07
 Misc : 6.07g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

Quant Time: Jun 22 04:14:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	638634	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.23	114	846173	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.38	117	628951	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	277533	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	396963	57.18	ug/l	0.00
Spiked Amount			Recovery	=	114.36%	
35) Dibromofluoromethane	6.94	113	412232	57.78	ug/l	0.01
Spiked Amount			Recovery	=	115.56%	
50) Toluene-d8	10.43	98	738572	47.56	ug/l	0.01
Spiked Amount			Recovery	=	95.12%	
62) 4-Bromofluorobenzene	13.56	95	293916	41.62	ug/l	0.00
Spiked Amount			Recovery	=	83.24%	

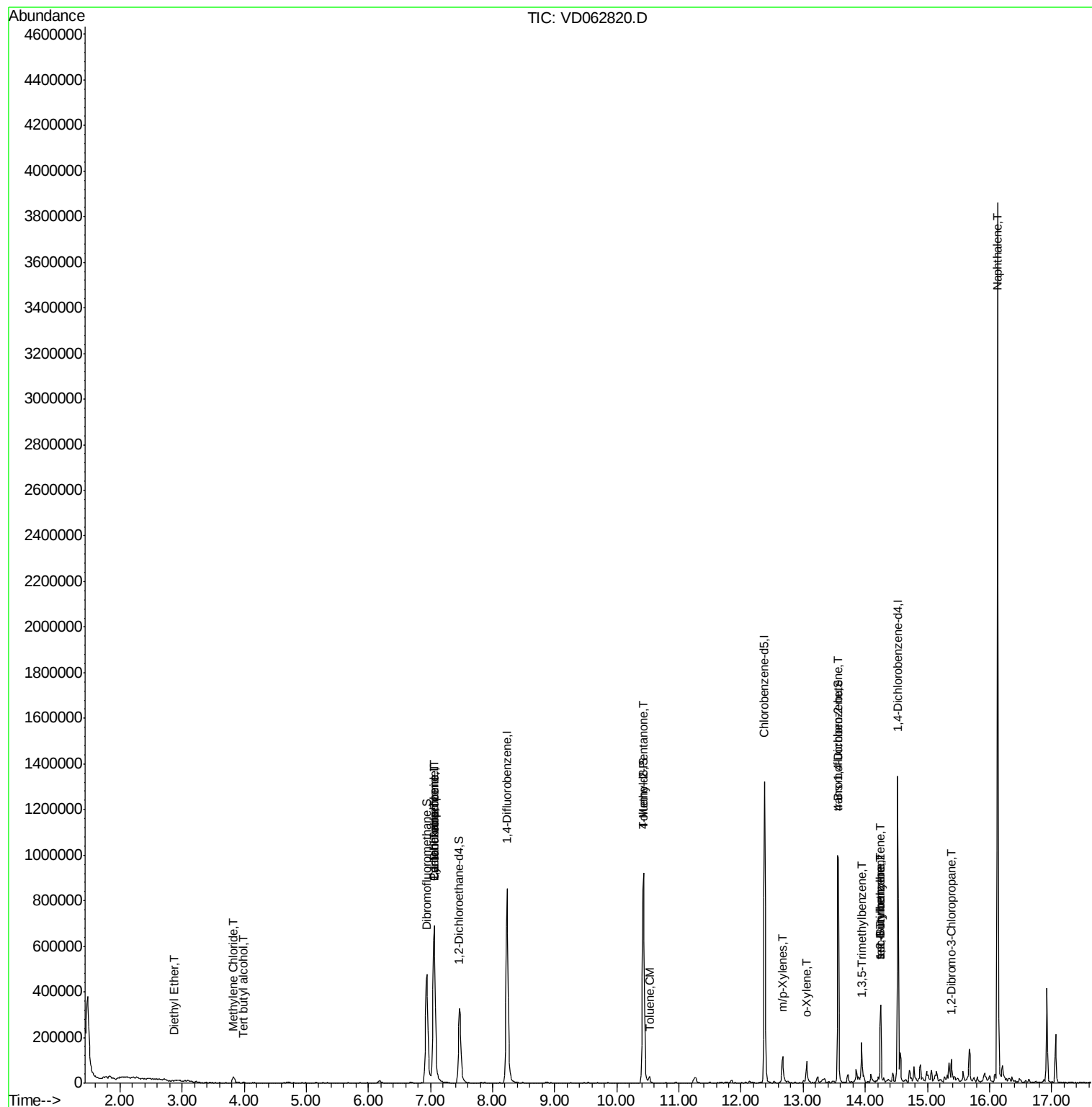
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.89	74	1950	1.231	ug/l	94
11) Tert butyl alcohol	3.98	59	746	2.360	ug/l #	77
16) Acetone	3.22	43	6871	Below Cal	#	64
20) Methylene Chloride	3.82	84	16995	3.210	ug/l #	73
31) Cyclohexane	7.05	56	17532	2.689	ug/l #	13
36) 1,1-Dichloropropene	7.05	75	49516	6.182	ug/l #	53
37) Ethyl Acetate	6.19	43	1120	Below Cal	#	69
38) Carbon Tetrachloride	7.06	117	63873	5.302	ug/l #	16
51) 4-Methyl-2-Pentanone	10.43	43	5509	1.850	ug/l #	42
52) Toluene	10.53	92	12603	1.166	ug/l #	75
68) m/p-Xylenes	12.67	106	25982	3.560	ug/l	87
69) o-Xylene	13.06	106	21011	3.149	ug/l	85
80) 1,3,5-Trimethylbenzene	13.94	105	69319	4.638	ug/l	93
81) trans-1,4-Dichloro-2-buten	13.56	75	141652	168.694	ug/l #	2
83) tert-Butylbenzene	14.25	119	16799	1.008	ug/l #	59
84) 1,2,4-Trimethylbenzene	14.25	105	144408	9.426	ug/l	96
85) sec-Butylbenzene	14.25	105	144401	7.974	ug/l #	59
92) 1,2-Dibromo-3-Chloropropan	15.38	75	1288	2.276	ug/l #	14
95) Naphthalene	16.13	128	2121490	263.959	ug/l	99

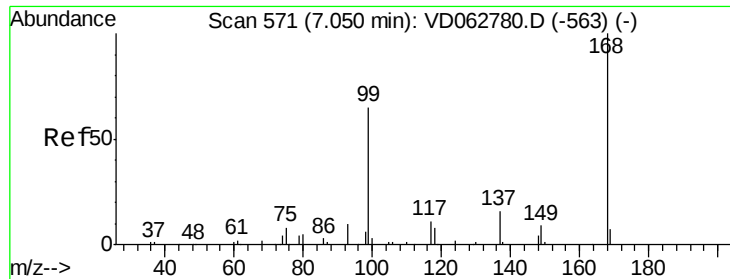
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.01 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampleId :

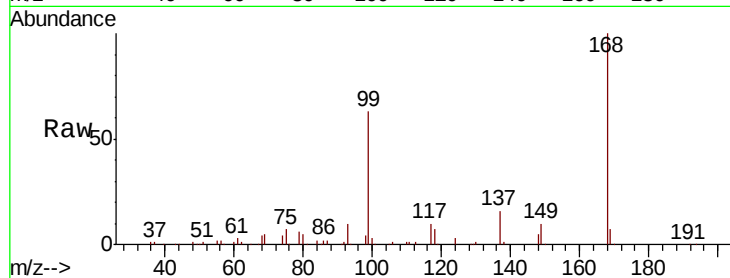
TP-4

Tot Ion:168 Resp: 638634

Ion Ratio Lower Upper

168 100

99 63.1 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

250000

200000

150000

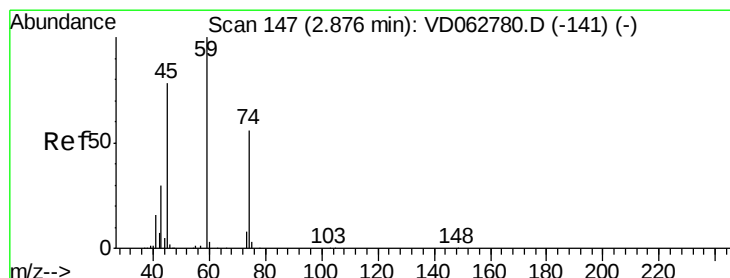
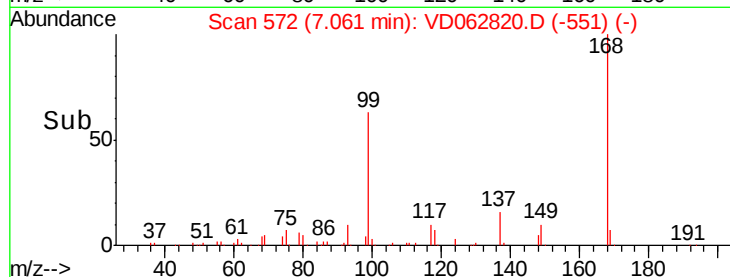
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#8

Diethyl Ether

Concen: 1.231 ug/l

RT: 2.89 min Scan# 148

Delta R.T. 0.01 min

Lab File: VD062820.D

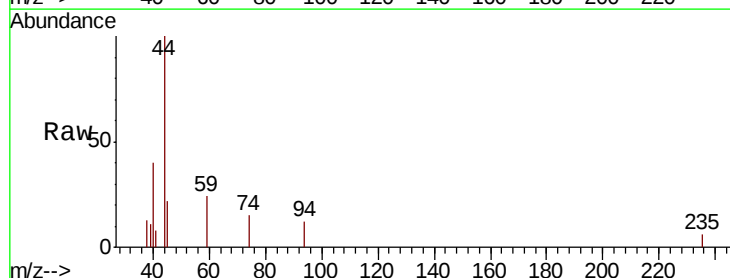
Acq: 21 Jun 2019 16:59

Tgt Ion: 74 Resp: 1950

Ion Ratio Lower Upper

74 100

45 147.4 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

1500

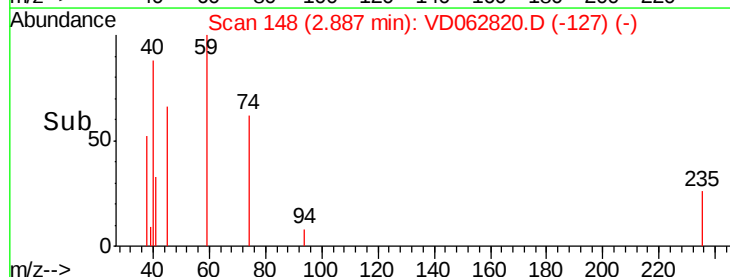
1000

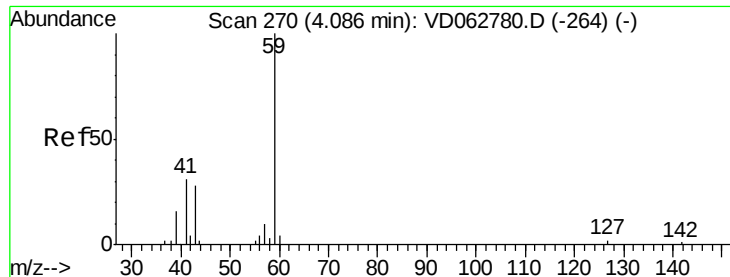
500

0

Time-->

2.80 2.85 2.90 2.95

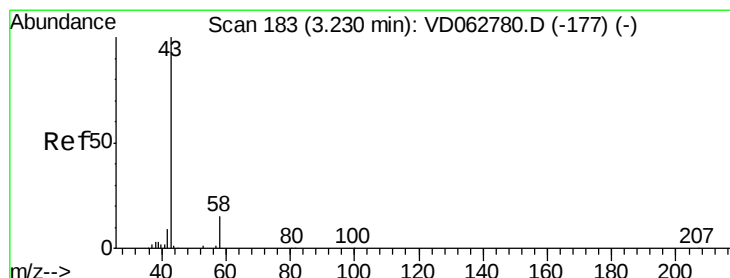
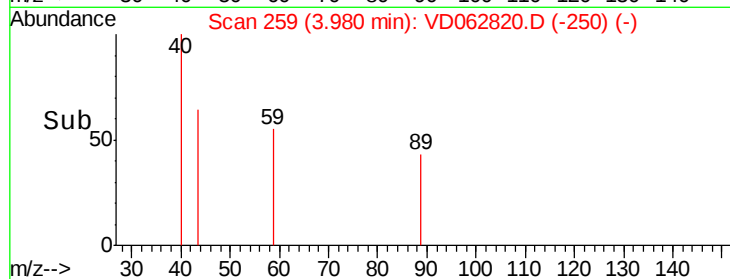
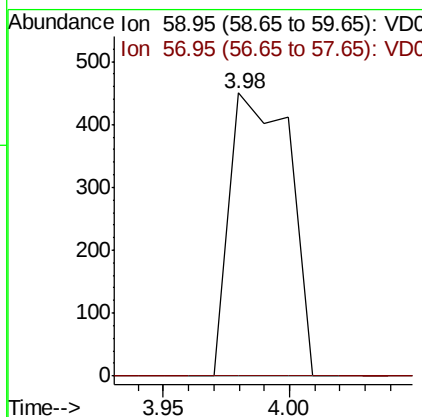
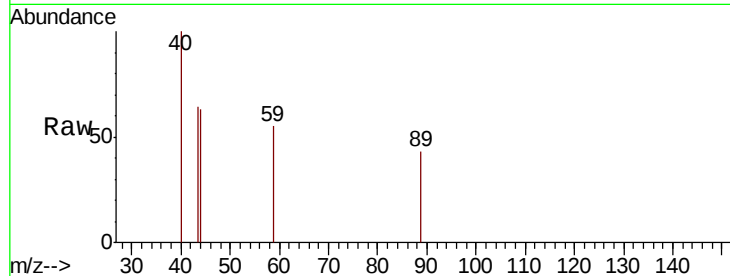




#11
Tert butyl alcohol
Concen: 2.360 ug/l
RT: 3.98 min Scan# 259
Delta R.T. -0.11 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

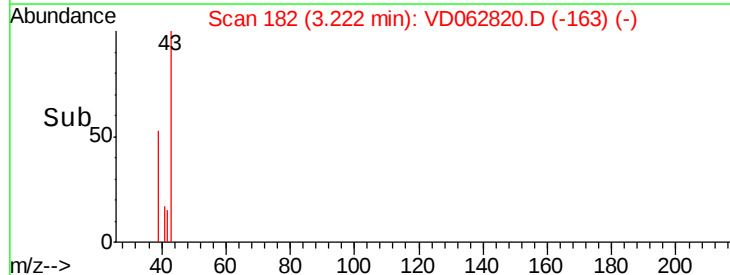
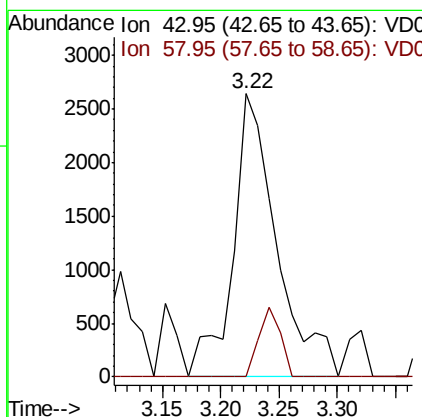
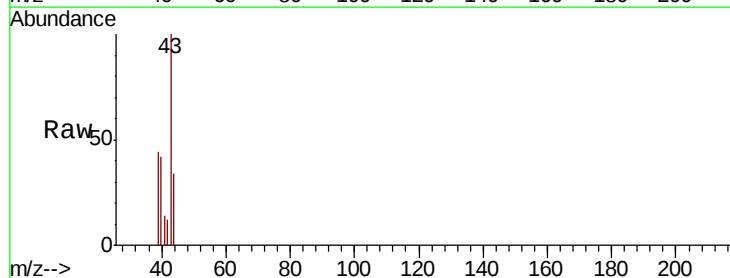
Instrument :
MSVOA_D
ClientSampled :
TP-4

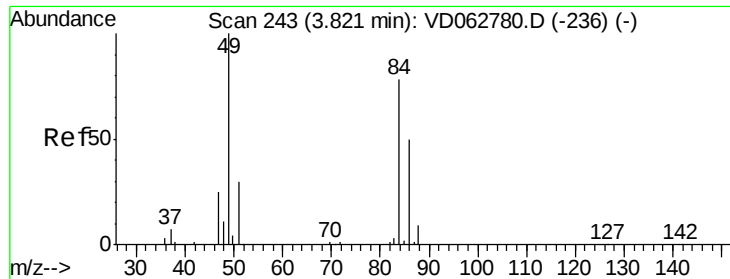
Tot Ion: 59 Resp: 746
Ion Ratio Lower Upper
59 100
57 0.0 6.6 10.0#



#16
Acetone
Concen: Below Cal
RT: 3.22 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Tgt Ion: 43 Resp: 6871
Ion Ratio Lower Upper
43 100
58 0.0 11.9 17.9#

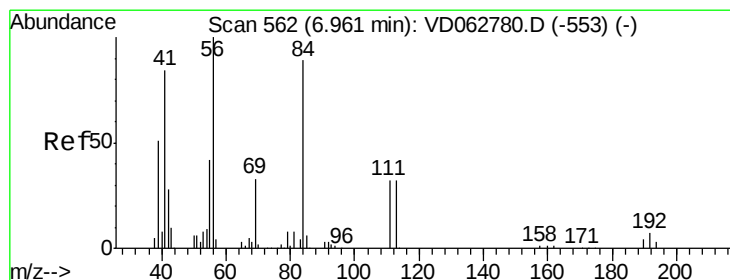
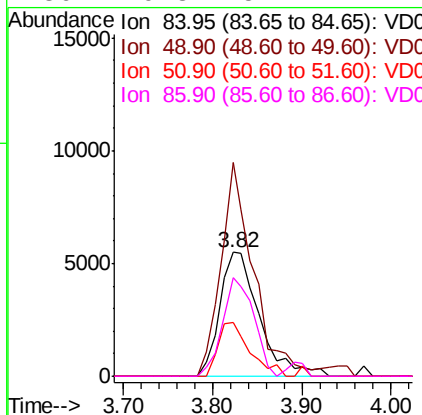
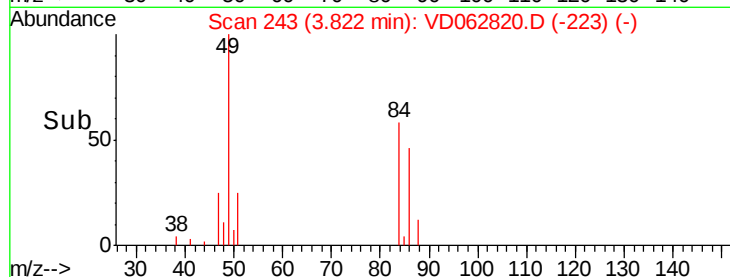
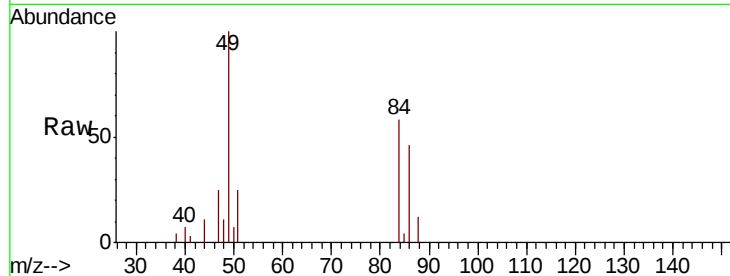




#20
Methvlene Chloride
Concen: 3.210 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.00 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

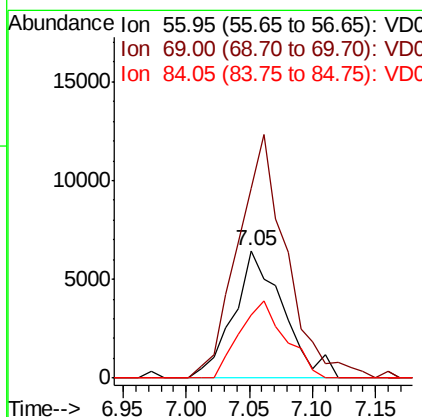
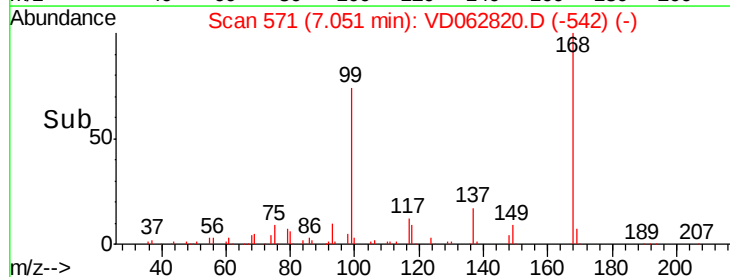
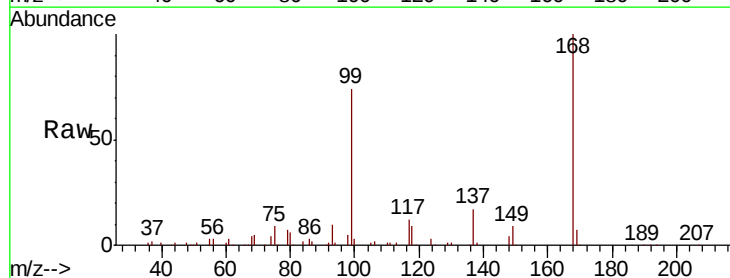
Instrument :
MSVOA_D
ClientSampled :
TP-4

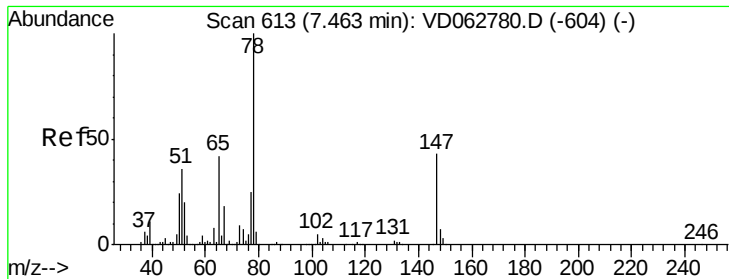
Tot Ion: 84 Resp: 16995
Ion Ratio Lower Upper
84 100
49 172.4 102.9 154.3#
51 43.4 31.2 46.8
86 79.3 51.4 77.2#



#31
Cyclohexane
Concen: 2.689 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.09 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Tgt Ion: 56 Resp: 17532
Ion Ratio Lower Upper
56 100
69 148.6 26.6 39.8#
84 49.6 75.5 113.3#





#33

1,2-Dichloroethane-d4

Concen: 57.184 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.00 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampleId :

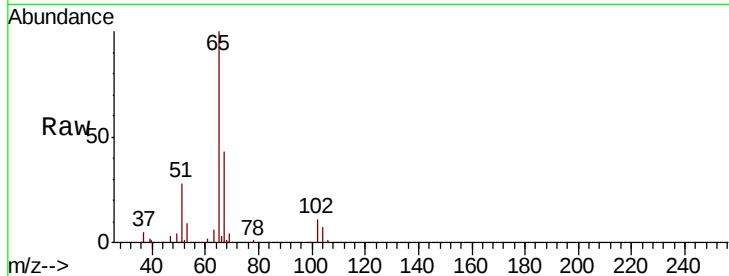
TP-4

Tot Ion: 65 Resp: 396963

Ion Ratio Lower Upper

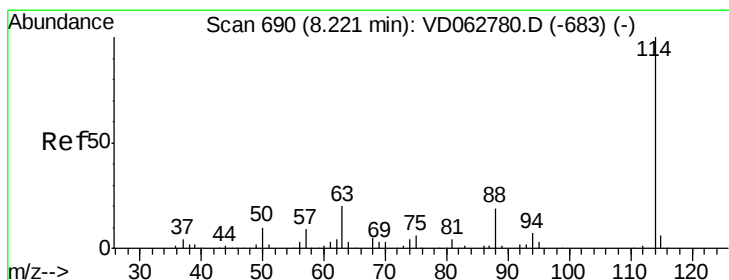
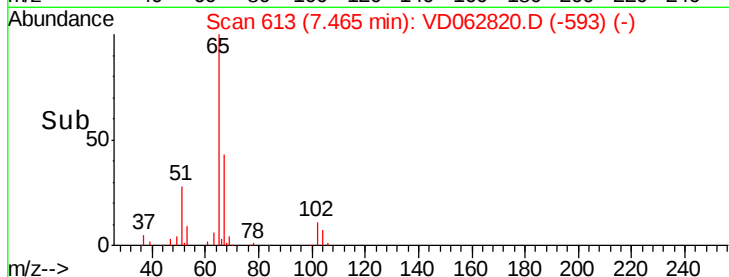
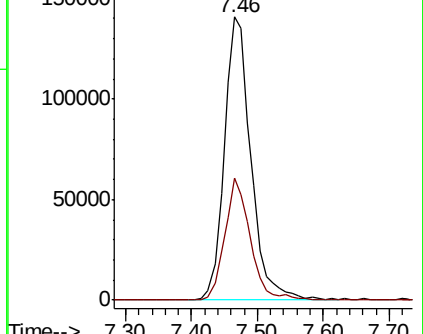
65 100

67 43.1 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

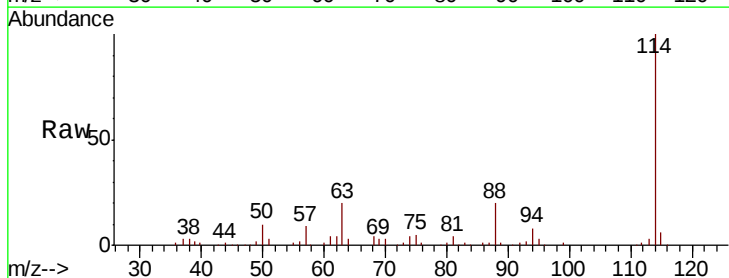
Tgt Ion: 114 Resp: 846173

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.0

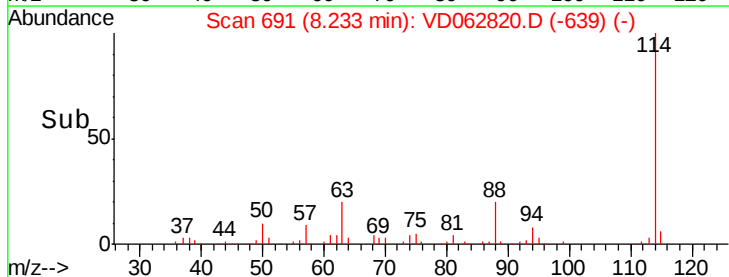
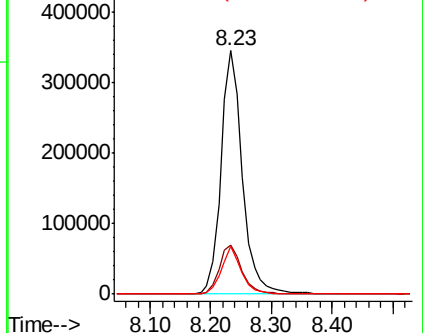
88 19.5 0.0 38.8

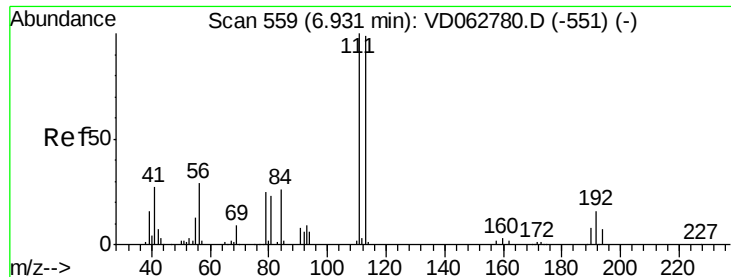


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

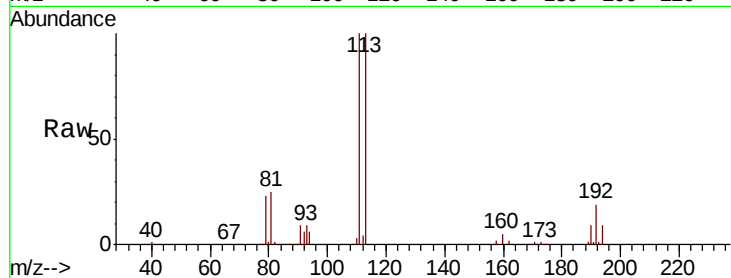




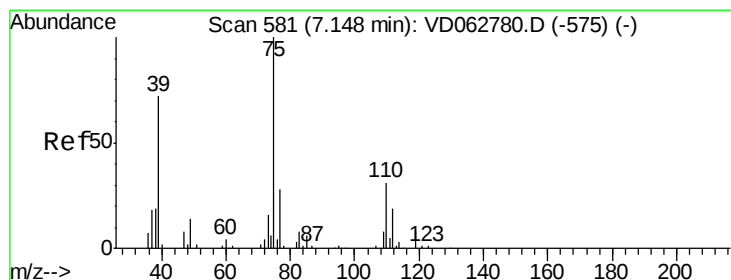
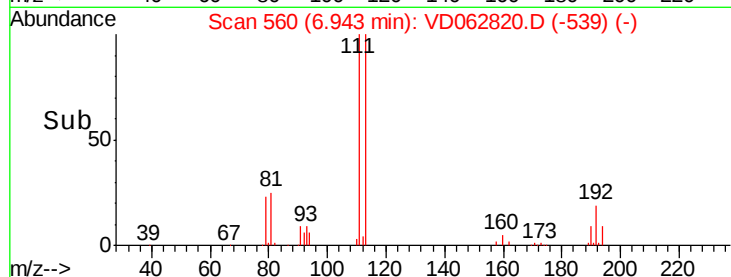
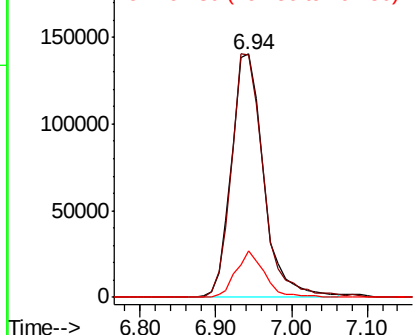
#35
Dibromofluoromethane
Concen: 57.777 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.01 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Instrument :
MSVOA_D
ClientSampleId :
TP-4

Tot Ion:113 Resp: 412232
Ion Ratio Lower Upper
113 100
111 99.7 81.2 121.8
192 19.2 12.9 19.3

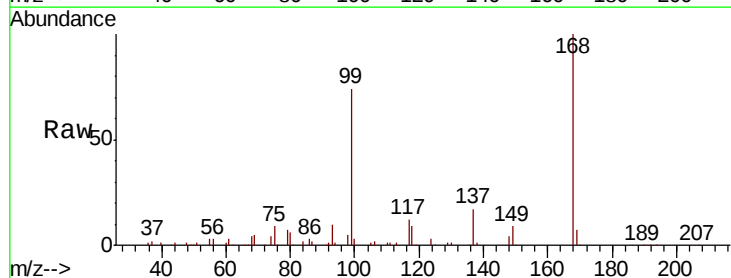


Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

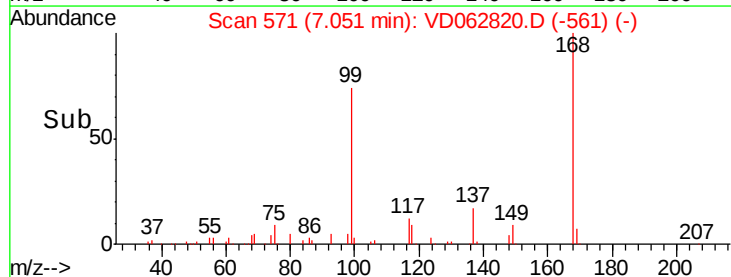
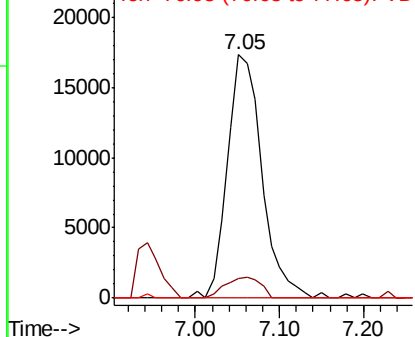


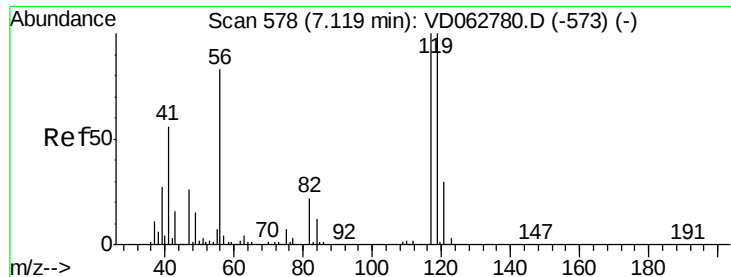
#36
1,1-Dichloropropene
Concen: 6.182 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.10 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Tgt Ion: 75 Resp: 49516
Ion Ratio Lower Upper
75 100
110 8.0 15.0 45.1#
77 0.0 22.2 33.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC

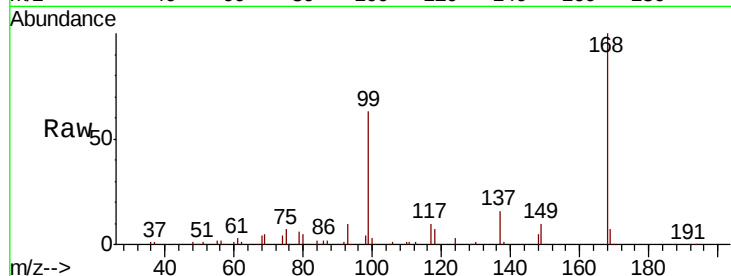




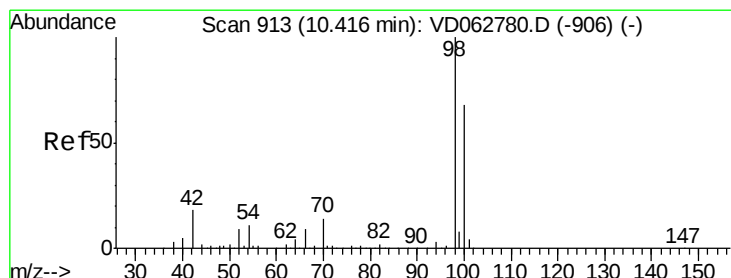
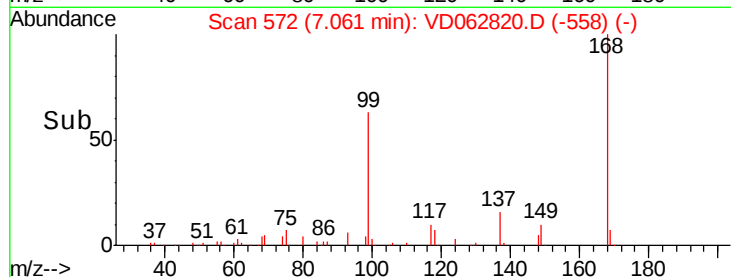
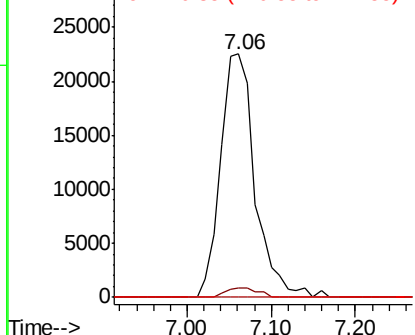
#38
Carbon Tetrachloride
Concen: 5.302 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.06 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Instrument :
MSVOA_D
ClientSampleId :
TP-4

Tot Ion:117 Resp: 63873
Ion Ratio Lower Upper
117 100
119 3.7 75.4 113.2#
121 0.0 22.3 33.5#

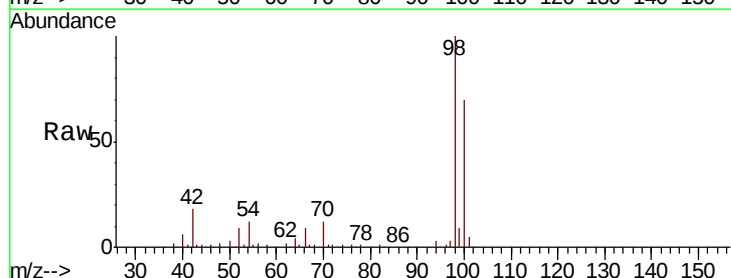


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

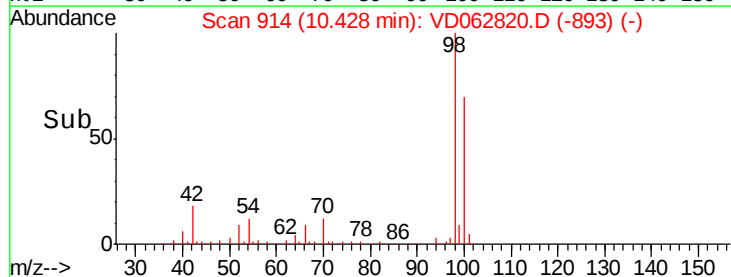
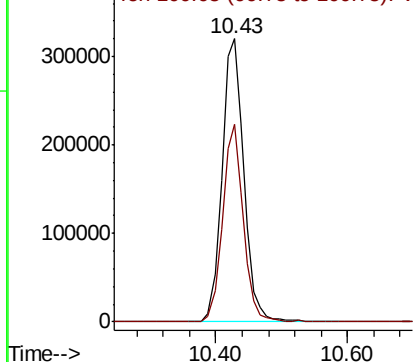


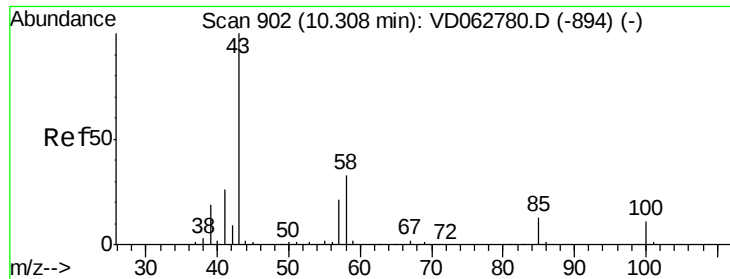
#50
Toluene-d8
Concen: 47.561 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Tgt Ion: 98 Resp: 738572
Ion Ratio Lower Upper
98 100
100 69.8 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VD





#51

4-Methyl-2-Pentanone

Concen: 1.850 ug/l

RT: 10.43 min Scan# 914

Delta R.T. 0.12 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampled :

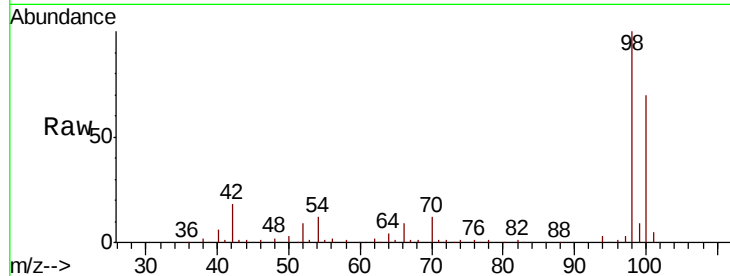
TP-4

Tot Ion: 43 Resp: 5509

Ion Ratio Lower Upper

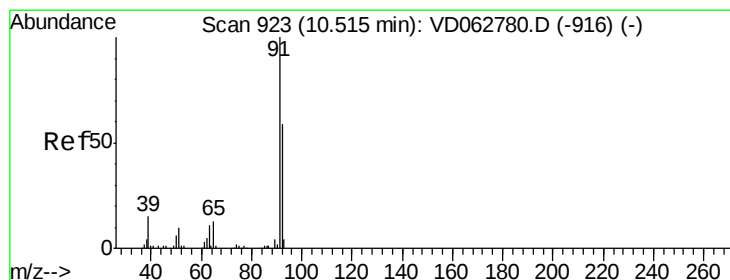
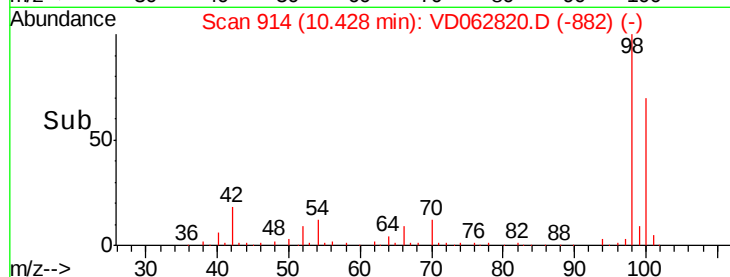
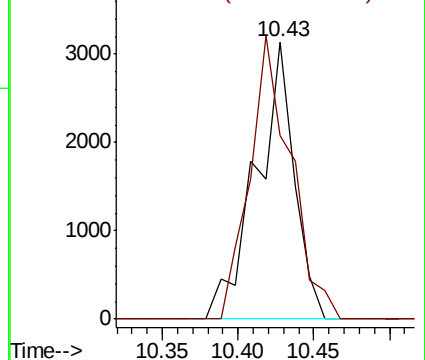
43 100

58 66.1 26.6 40.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 1.166 ug/l

RT: 10.53 min Scan# 924

Delta R.T. 0.01 min

Lab File: VD062820.D

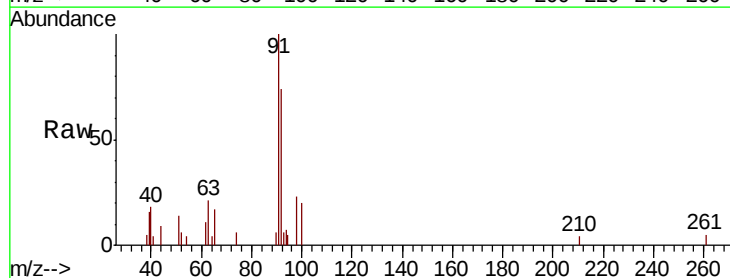
Acq: 21 Jun 2019 16:59

Tgt Ion: 92 Resp: 12603

Ion Ratio Lower Upper

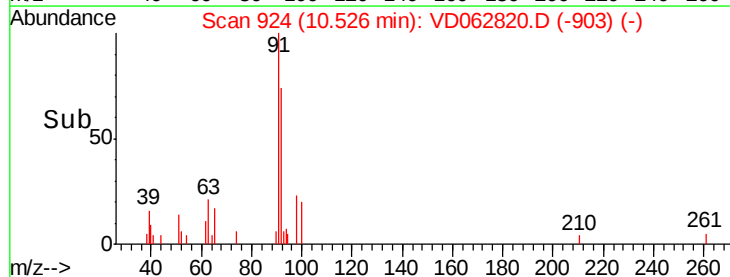
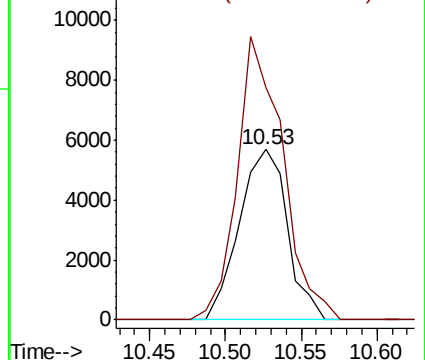
92 100

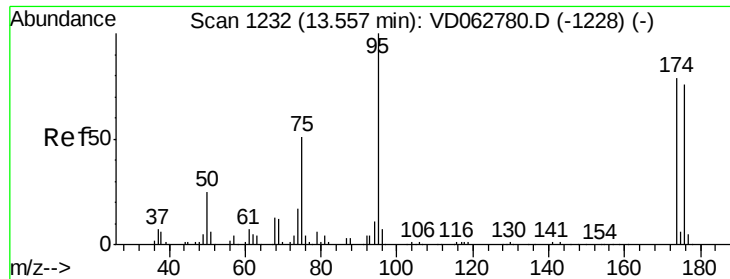
91 135.9 136.3 204.5#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

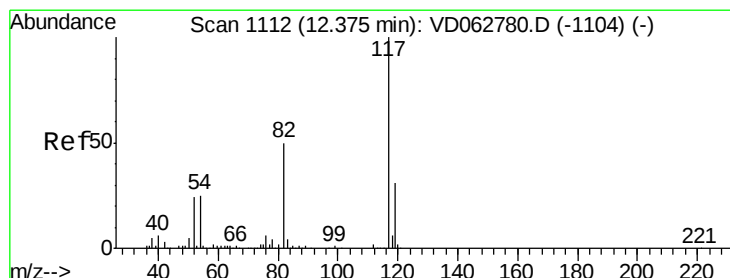
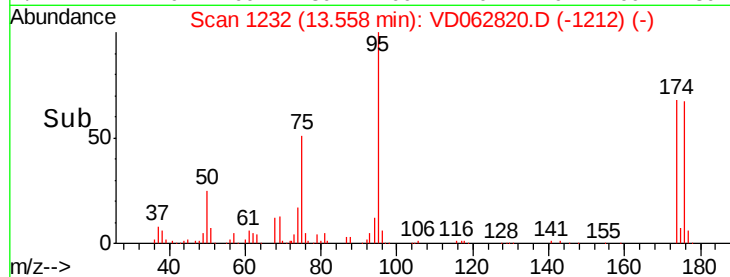
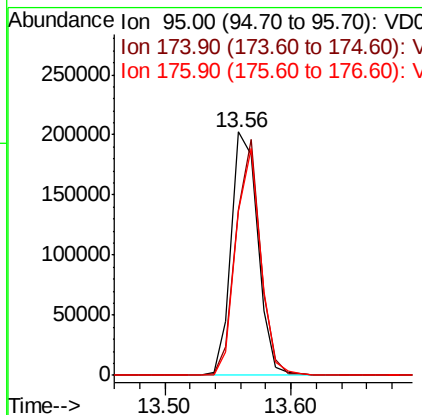
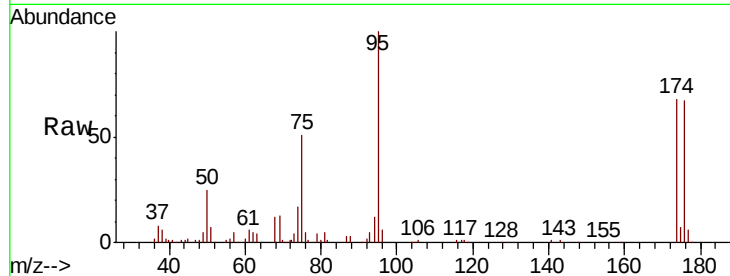




#62
4-Bromofluorobenzene
Concen: 41.625 ug/l
RT: 13.56 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

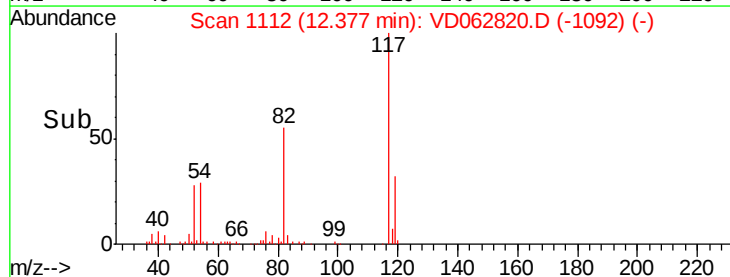
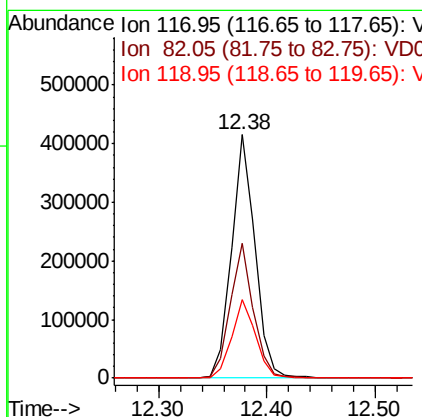
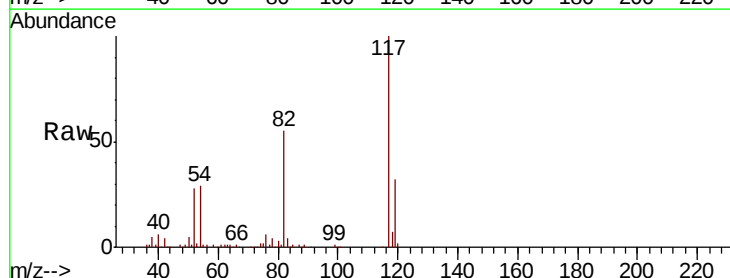
Instrument :
MSVOA_D
ClientSampled :
TP-4

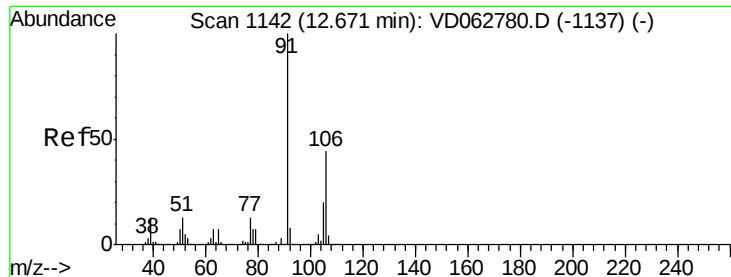
Tot Ion	95	Resp	293916
Ion Ratio	Lower	Upper	
95	100		
174	67.8	0.0	158.0
176	67.4	0.0	151.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD062820.D
Acq: 21 Jun 2019 16:59

Tgt Ion	117	Resp	628951
Ion Ratio	Lower	Upper	
117	100		
82	55.4	40.4	60.6
119	32.3	25.2	37.8





#68

m/p-Xylenes

Concen: 3.560 ug/l

RT: 12.67 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampleId :

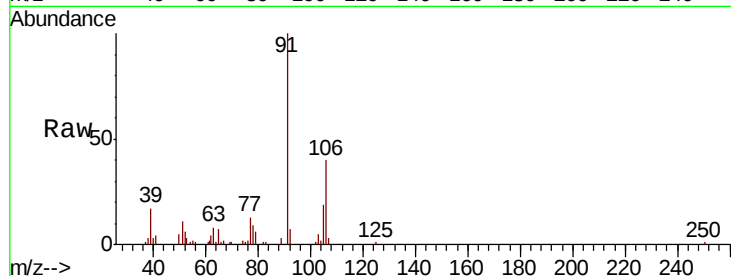
TP-4

Tot Ion:106 Resp: 25982

Ion Ratio Lower Upper

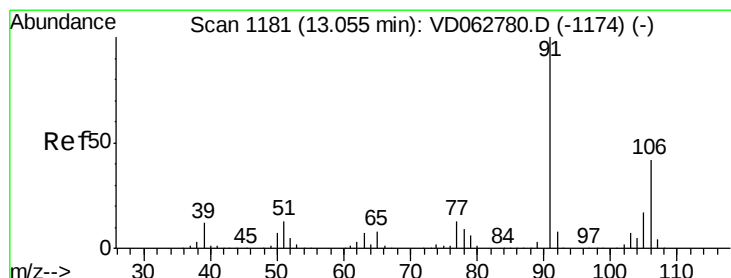
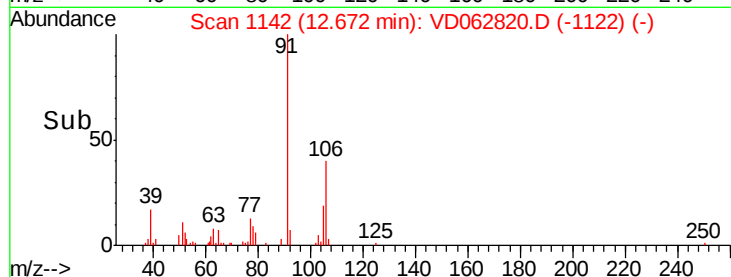
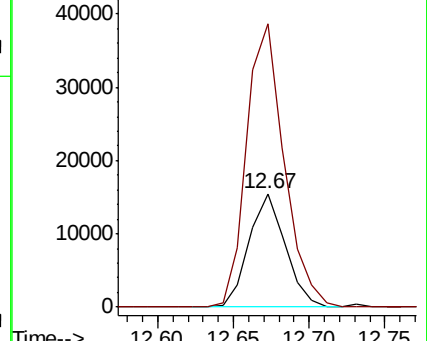
106 100

91 249.5 183.0 274.6



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 3.149 ug/l

RT: 13.06 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD062820.D

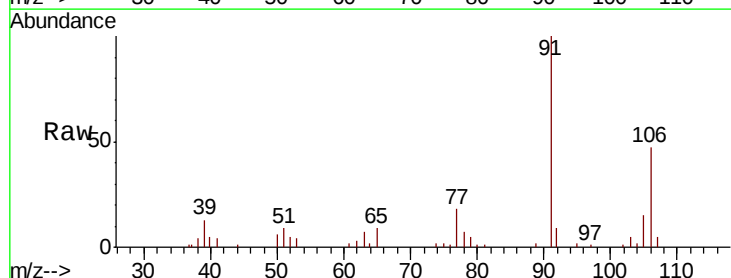
Acq: 21 Jun 2019 16:59

Tgt Ion:106 Resp: 21011

Ion Ratio Lower Upper

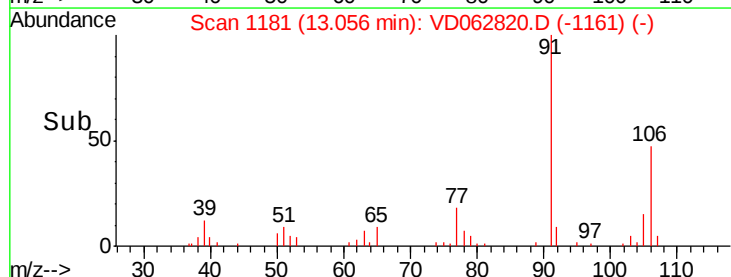
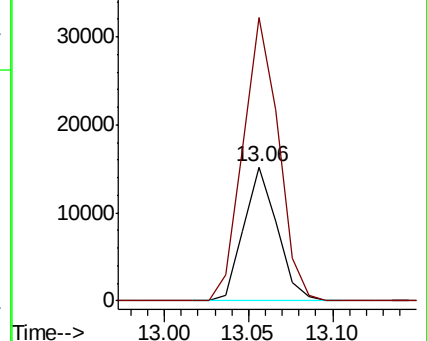
106 100

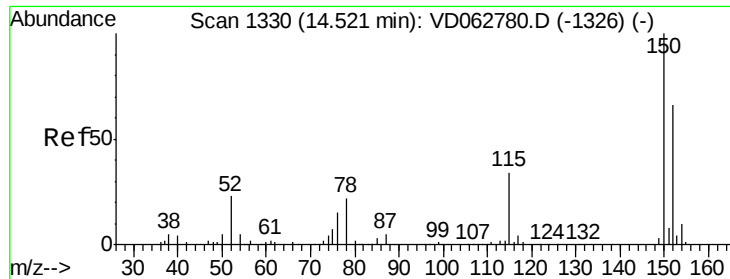
91 211.3 117.9 353.6



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampleId :

TP-4

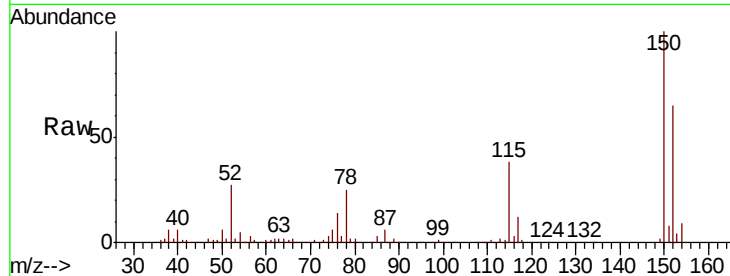
Tot Ion:152 Resp: 277533

Ion Ratio Lower Upper

152 100

115 59.6 29.2 87.6

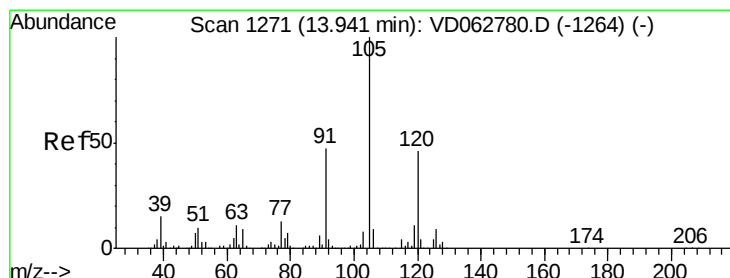
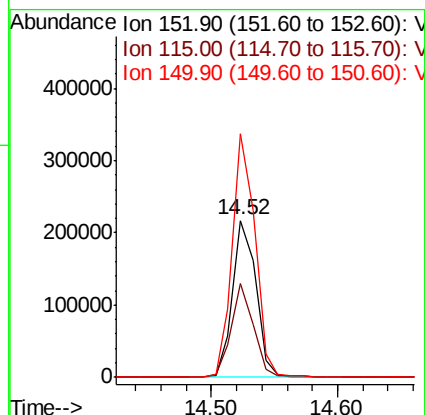
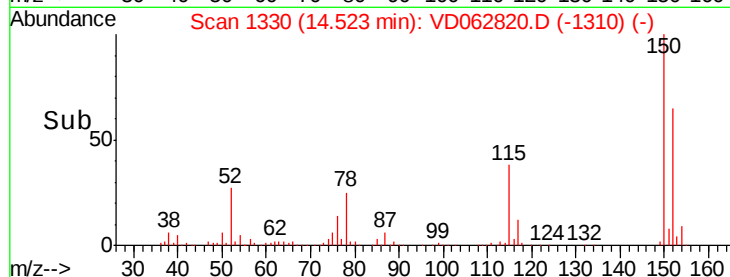
150 155.0 0.0 305.8



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



#80

1,3,5-Trimethylbenzene

Concen: 4.638 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VD062820.D

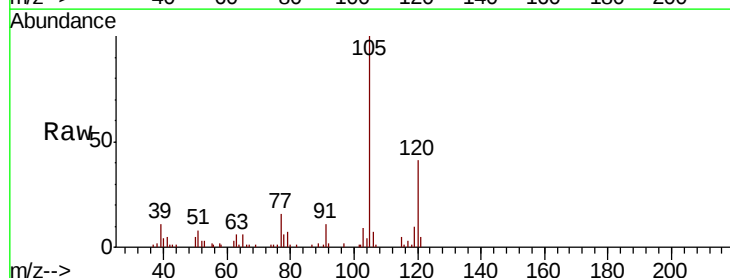
Acq: 21 Jun 2019 16:59

Tgt Ion:105 Resp: 69319

Ion Ratio Lower Upper

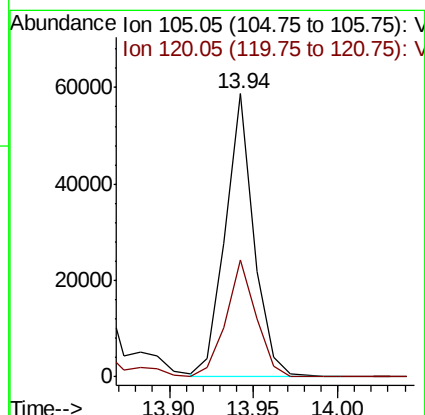
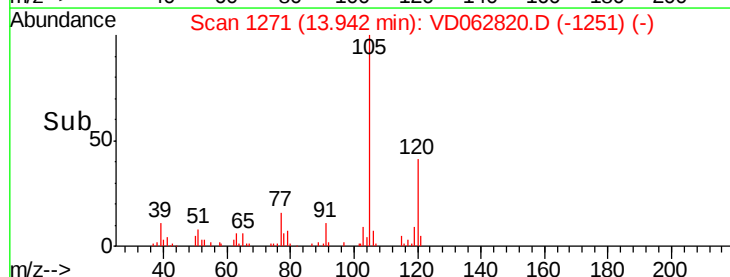
105 100

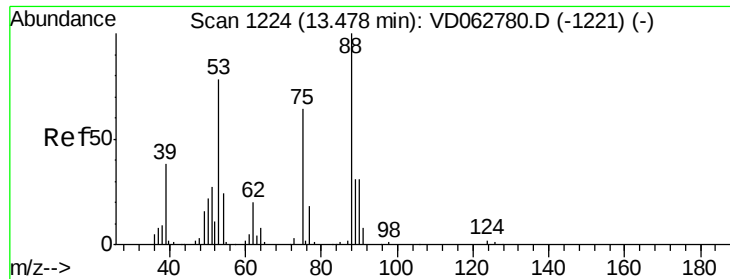
120 41.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 168.694 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampled :

TP-4

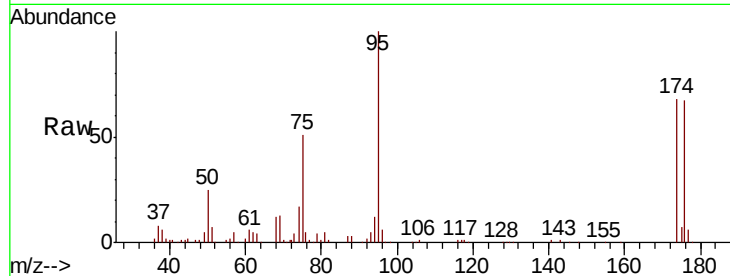
Tot Ion: 75 Resp: 141652

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

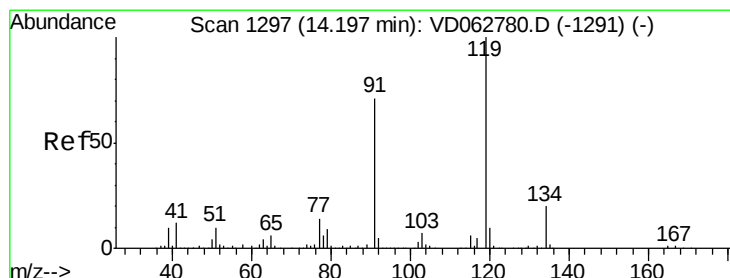
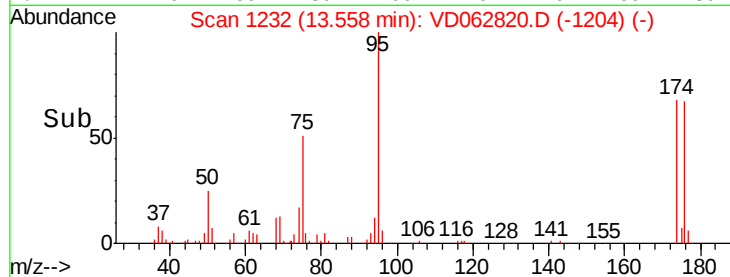
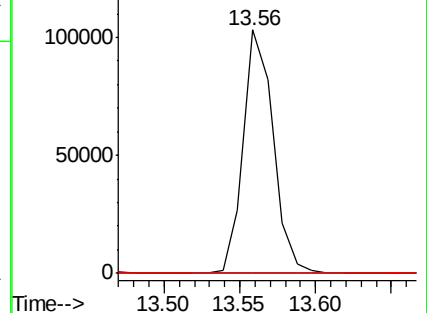
89 0.0 39.4 59.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#83

tert-Butylbenzene

Concen: 1.008 ug/l

RT: 14.25 min Scan# 1302

Delta R.T. 0.05 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

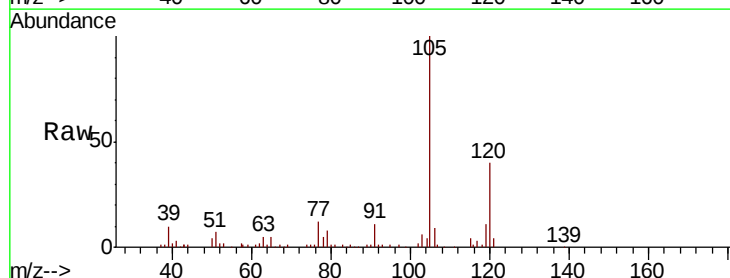
Tgt Ion:119 Resp: 16799

Ion Ratio Lower Upper

119 100

91 104.4 35.5 106.5

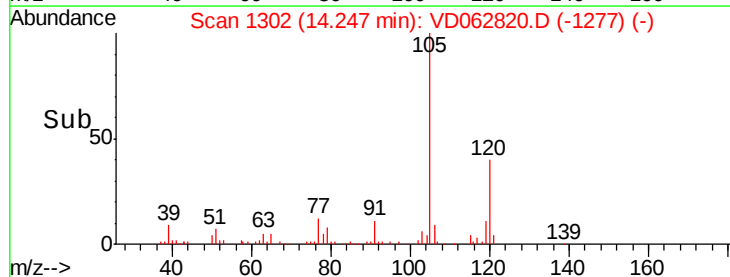
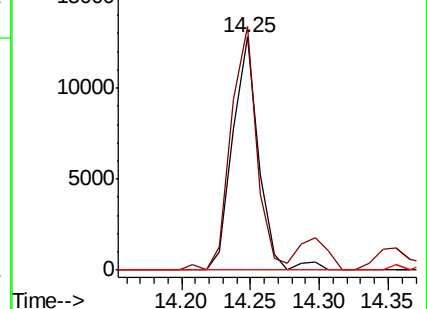
134 0.0 10.2 30.6#

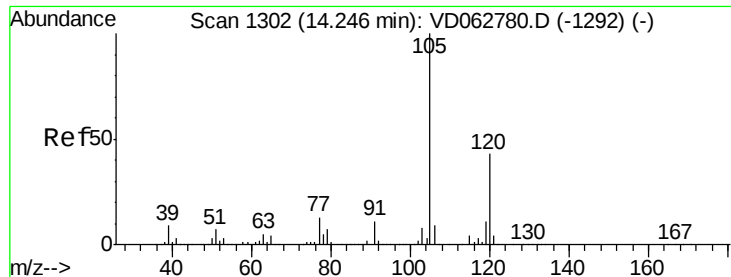


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): VDC

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 9.426 ug/l

RT: 14.25 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VD062820.D

Acq: 21 Jun 2019 16:59

Instrument :

MSVOA_D

ClientSampleId :

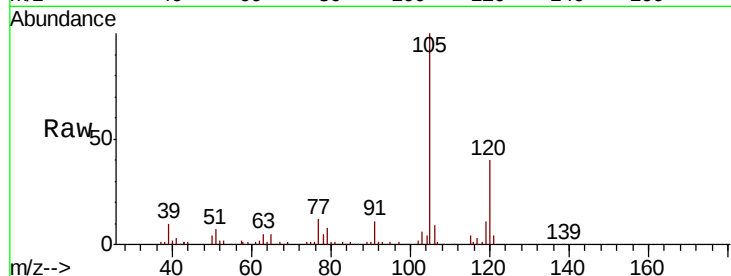
TP-4

Tot Ion:105 Resp: 144408

Ion Ratio Lower Upper

105 100

120 40.2 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

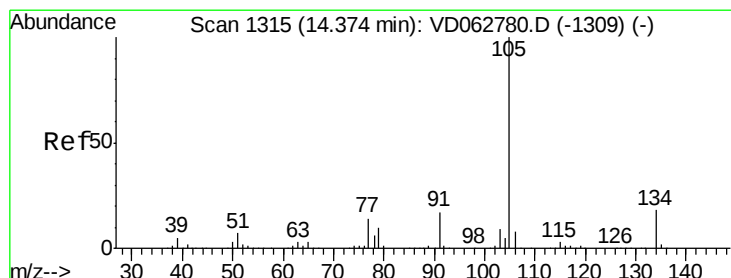
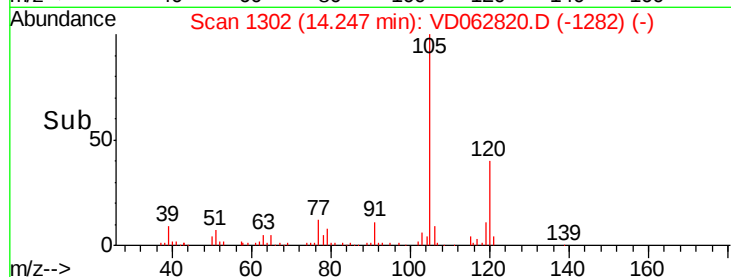
14.25

100000

50000

0

Time-->



#85

sec-Butylbenzene

Concen: 7.974 ug/l

RT: 14.25 min Scan# 1302

Delta R.T. -0.13 min

Lab File: VD062820.D

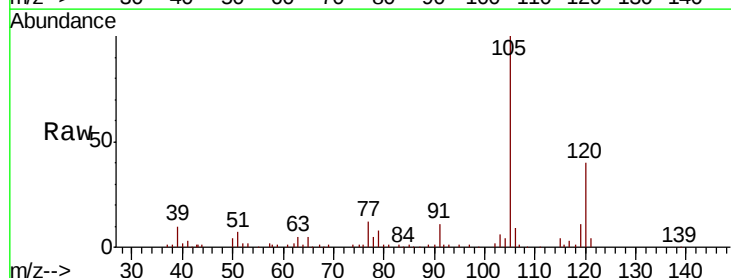
Acq: 21 Jun 2019 16:59

Tgt Ion:105 Resp: 144401

Ion Ratio Lower Upper

105 100

134 0.0 9.1 27.3#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

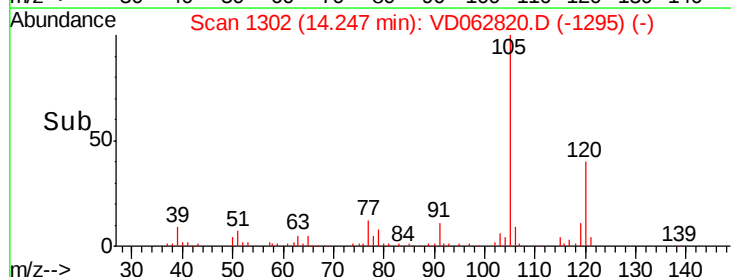
14.25

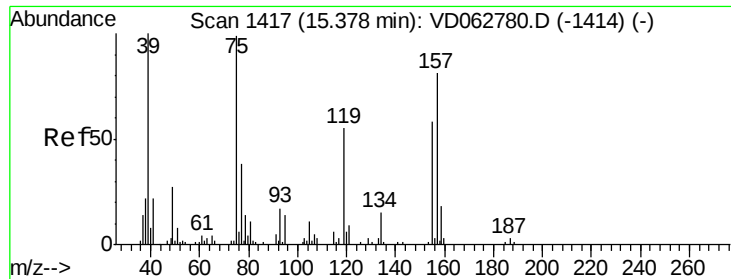
100000

50000

0

Time-->

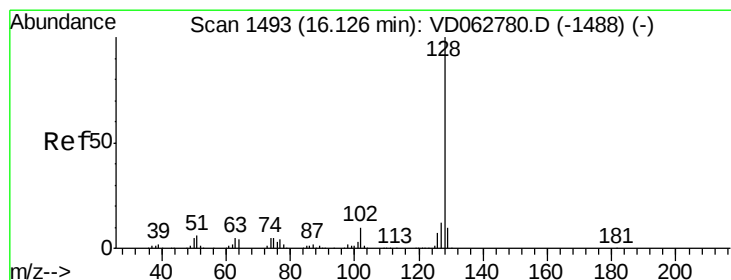
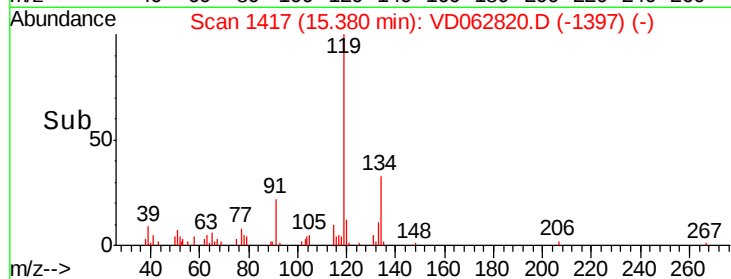
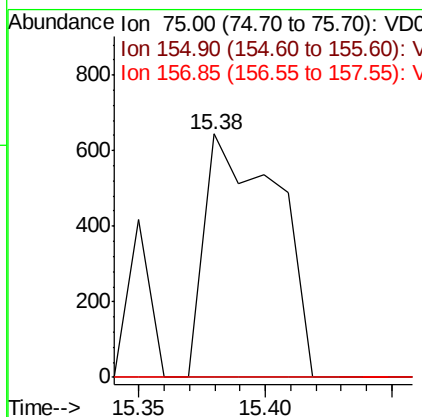
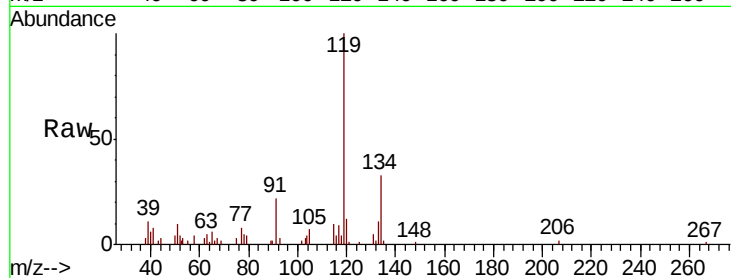




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.276 ug/l
 RT: 15.38 min Scan# 1417
 Delta R.T. 0.00 min
 Lab File: VD062820.D
 Acq: 21 Jun 2019 16:59

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-4

Tot Ion: 75 Resp: 1288
 Ion Ratio Lower Upper
 75 100
 155 0.0 29.3 87.8#
 157 0.0 41.3 123.7#



#95
 Naphthalene
 Concen: 263.959 ug/l
 RT: 16.13 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062820.D
 Acq: 21 Jun 2019 16:59

Tgt Ion: 128 Resp: 2121490
 Ion Ratio Lower Upper
 128 100
 127 12.2 9.7 14.5
 129 11.1 8.3 12.5

