

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082319\
 Data File : VD063774.D
 Acq On : 23 Aug 2019 18:49
 Operator : JC/SY
 Sample : k4462-01RE
 Misc : 5.06g/5ml/MSVOA D/SOIL
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Aug 26 11:14:17 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	7.04	168	605100	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	632344	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.37	117	201998	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	16523	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	336571	52.04	ug/l	-0.02
Spiked Amount						
			Recovery	=	104.08%	
35) Dibromofluoromethane	6.92	113	444029	83.38	ug/l	-0.02
Spiked Amount						
			Recovery	=	166.76%	
50) Toluene-d8	10.41	98	620120	52.96	ug/l	-0.02
Spiked Amount						
			Recovery	=	105.92%	
62) 4-Bromofluorobenzene	13.56	95	64636	12.18	ug/l	0.00
Spiked Amount						
			Recovery	=	24.36%	

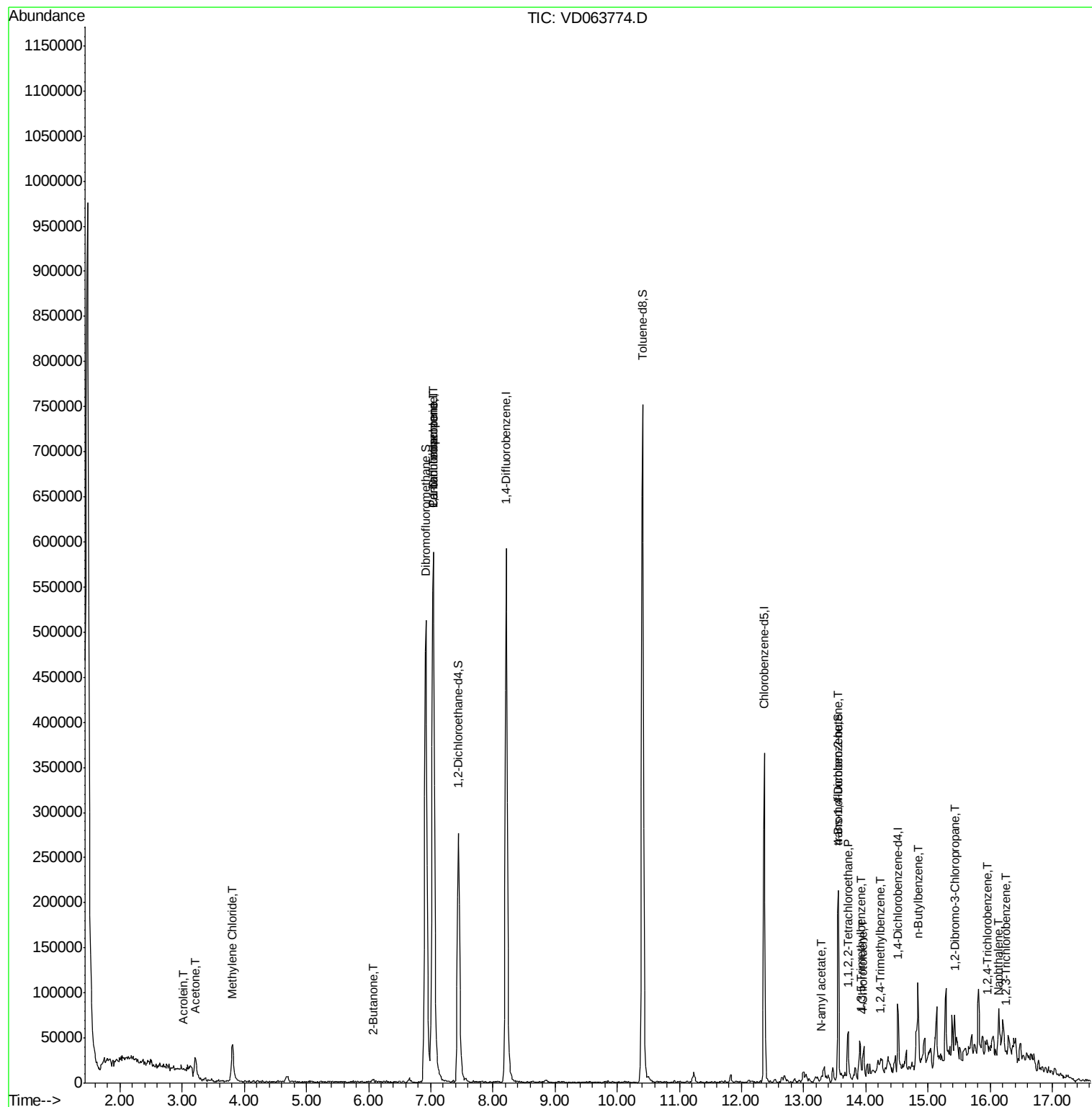
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.01	56	344	1.241	ug/l #	54
16) Acetone	3.21	43	53425	40.633	ug/l #	93
20) Methylene Chloride	3.81	84	27058	4.759	ug/l #	84
25) 2-Butanone	6.07	43	6604	5.086	ug/l #	58
36) 1,1-Dichloropropene	7.03	75	41563	7.435	ug/l #	48
38) Carbon Tetrachloride	7.04	117	57725	6.852	ug/l #	20
74) N-amyl acetate	13.29	43	1720	6.520	ug/l #	62
75) 1,1,2,2-Tetrachloroethane	13.70	83	2451	14.051	ug/l #	56
80) 1,3,5-Trimethylbenzene	13.93	105	1519	1.654	ug/l #	37
81) trans-1,4-Dichloro-2-buten	13.55	75	31275	613.628	ug/l #	3
82) 4-Chlorotoluene	13.94	91	1847	2.166	ug/l #	44
84) 1,2,4-Trimethylbenzene	14.24	105	2429	2.859	ug/l	81
89) n-Butylbenzene	14.84	91	4502	5.024	ug/l #	28
92) 1,2-Dibromo-3-Chloropropan	15.44	75	249	7.581	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	477	1.471	ug/l #	10
95) Naphthalene	16.12	128	2216	4.508	ug/l #	71
96) 1,2,3-Trichlorobenzene	16.26	180	728	2.779	ug/l #	1

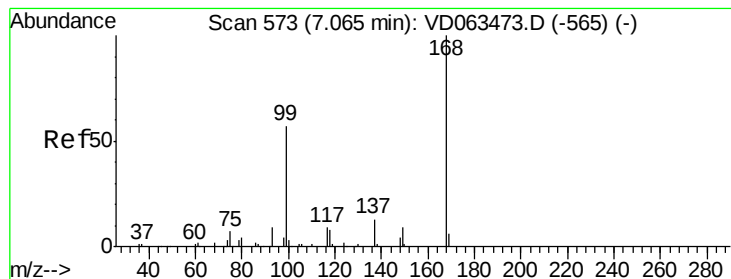
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Aug 10 06:42:47 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

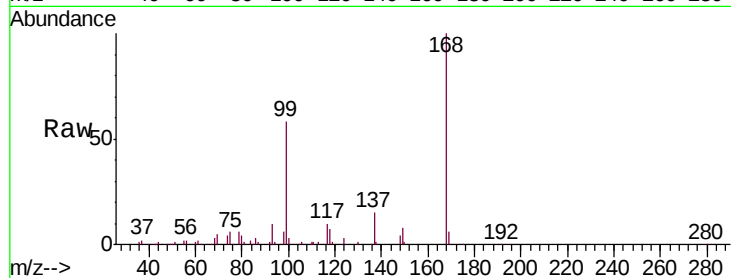
ClientSampleId :

Tot Ion:168 Resp: 605100

Ion Ratio Lower Upper

168 100

99 58.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

200000

150000

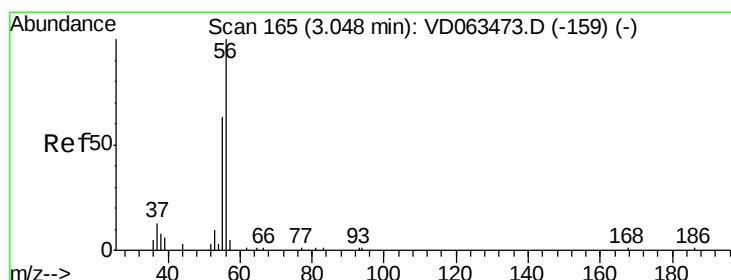
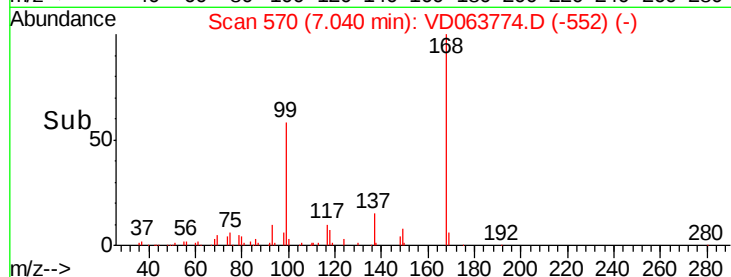
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#13

Acrolein

Concen: 1.241 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.03 min

Lab File: VD063774.D

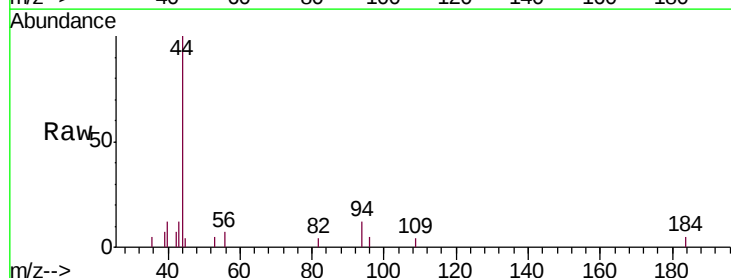
Acq: 23 Aug 2019 18:49

Tgt Ion: 56 Resp: 344

Ion Ratio Lower Upper

56 100

55 100.0 51.3 76.9#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

800

600

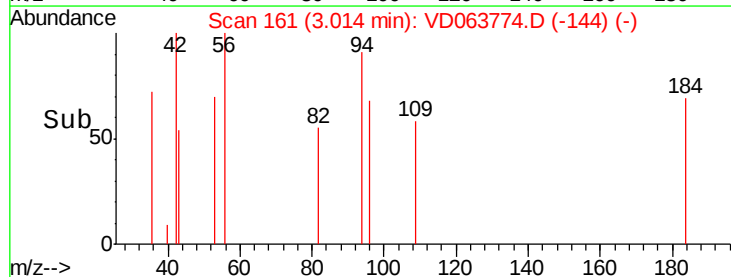
400

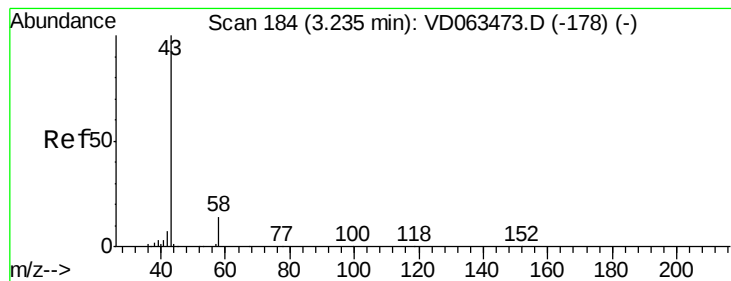
200

0

3.00 3.02 3.04

Time-->





#16

Acetone

Concen: 40.633 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

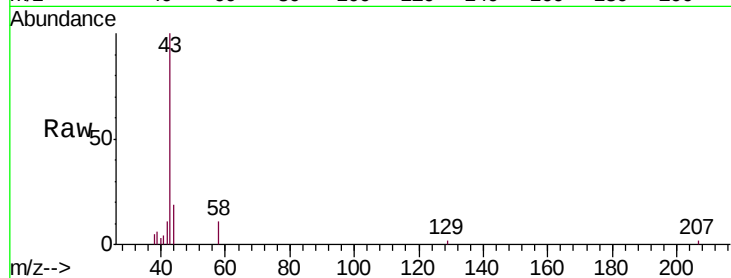
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 53425

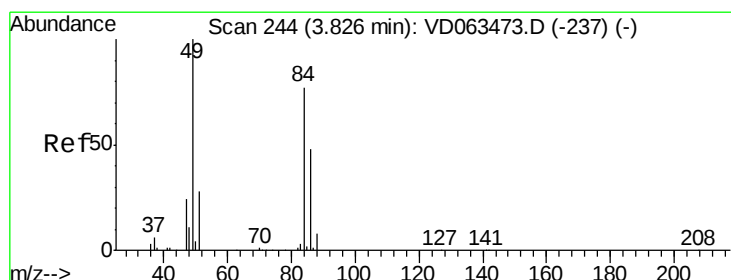
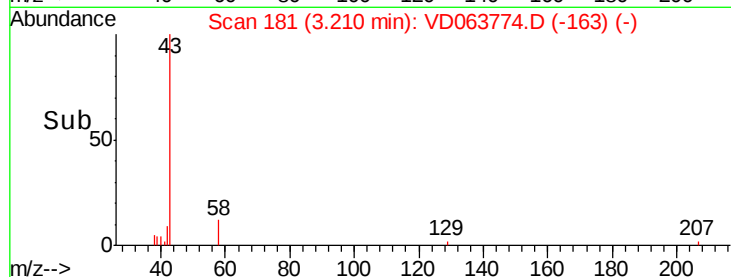
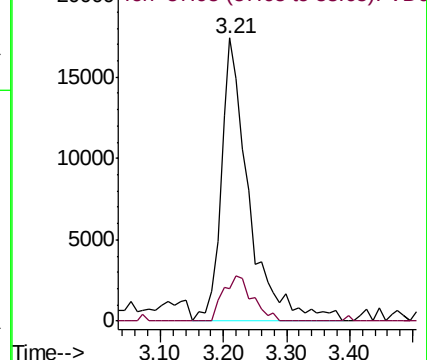
Ion Ratio Lower Upper

43 100

58 11.3 11.4 17.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.759 ug/l

RT: 3.81 min Scan# 242

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Tgt Ion: 84 Resp: 27058

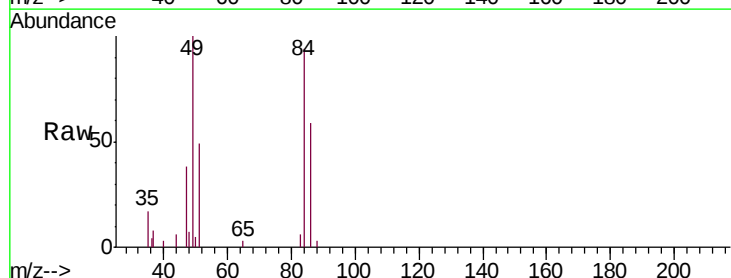
Ion Ratio Lower Upper

84 100

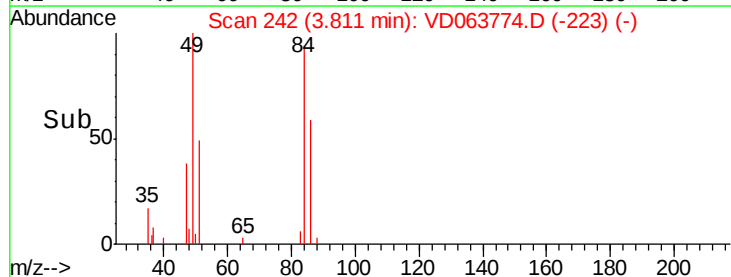
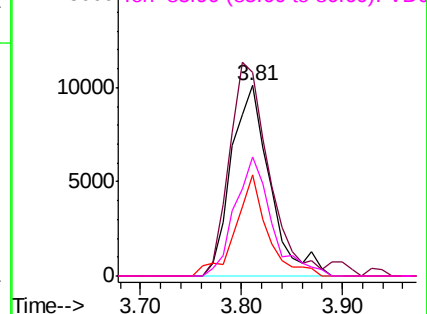
49 106.8 103.4 155.2

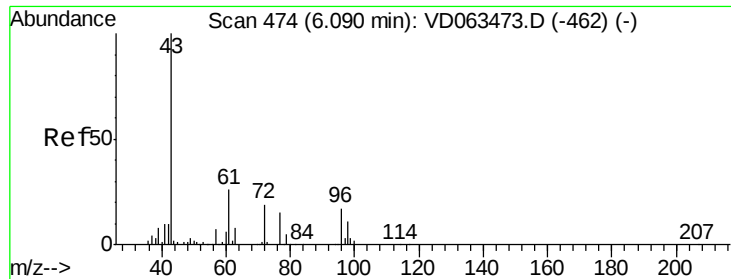
51 52.8 28.5 42.7#

86 62.6 49.4 74.2



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 5.086 ug/l

RT: 6.07 min Scan# 471

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

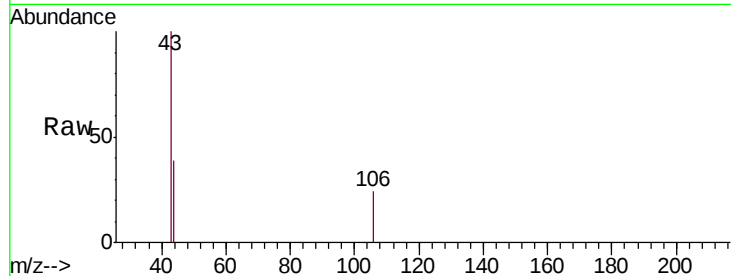
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 6604

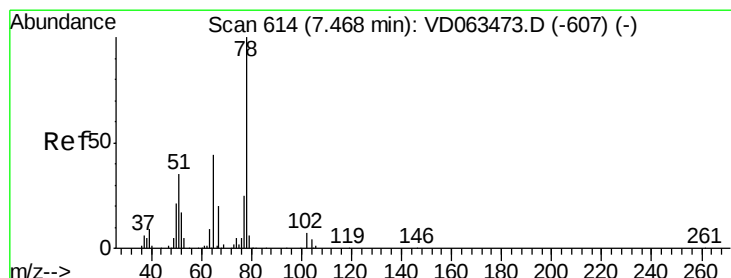
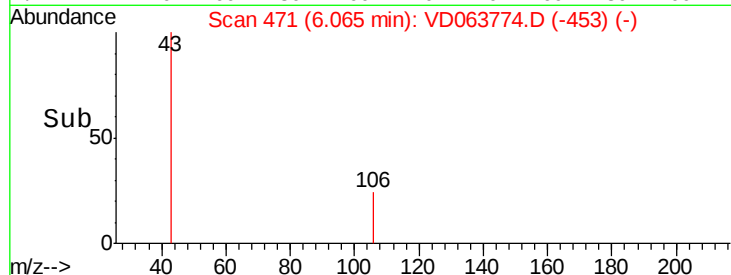
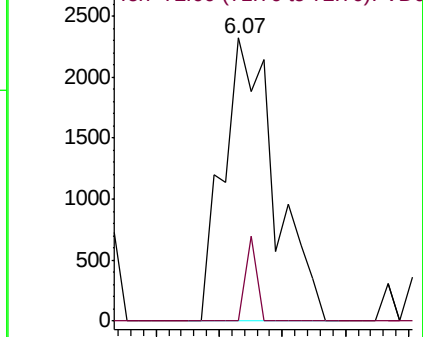
Ion Ratio Lower Upper

43 100

72 0.0 15.1 22.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 52.036 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.02 min

Lab File: VD063774.D

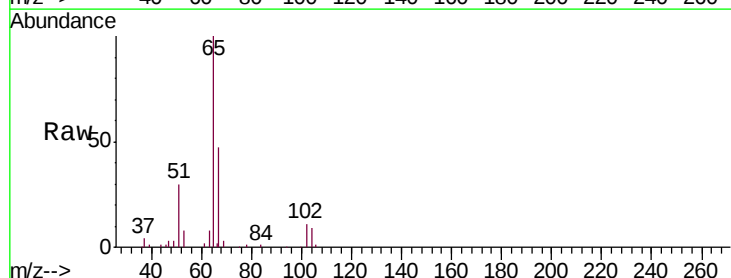
Acq: 23 Aug 2019 18:49

Tgt Ion: 65 Resp: 336571

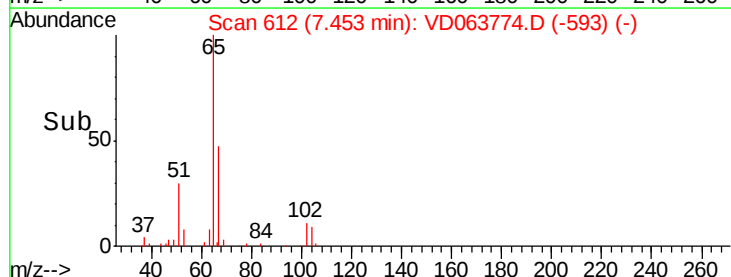
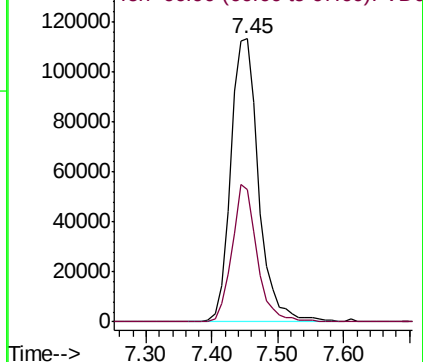
Ion Ratio Lower Upper

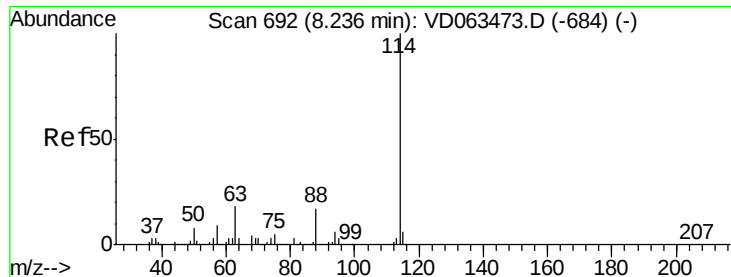
65 100

67 46.9 0.0 89.2



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: 8.21 min Scan# 689

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

ClientSampleId :

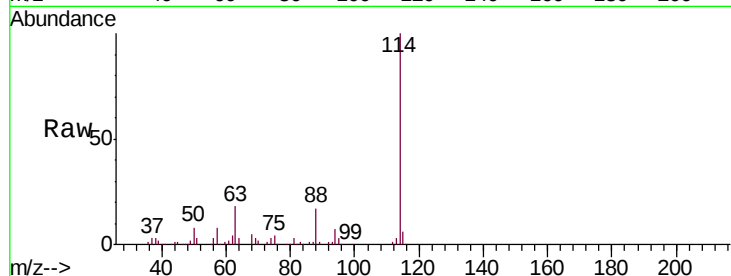
Tot Ion:114 Resp: 632344

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.2

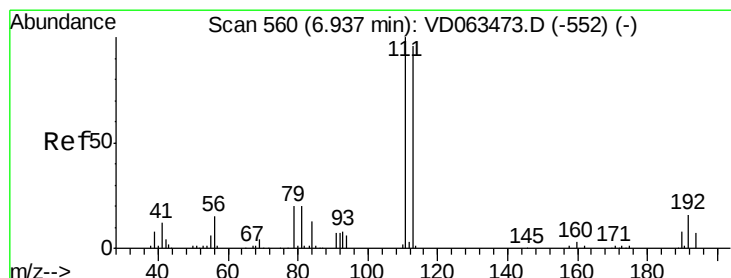
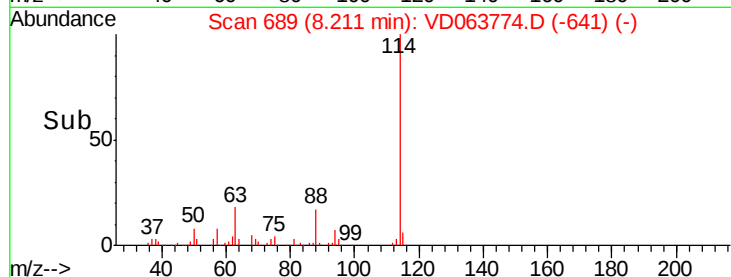
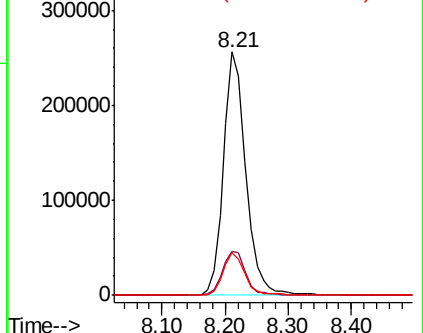
88 17.5 0.0 35.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 83.376 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

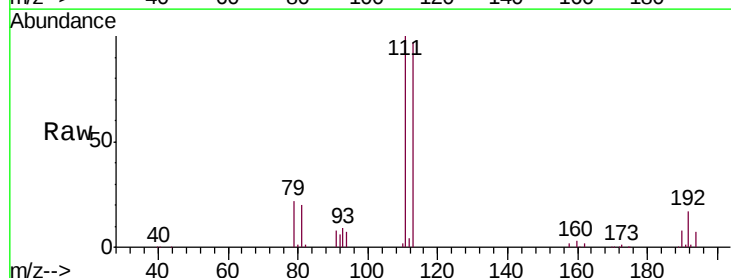
Tgt Ion:113 Resp: 444029

Ion Ratio Lower Upper

113 100

111 103.1 83.1 124.7

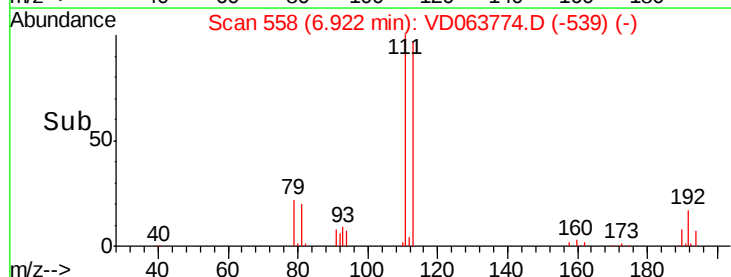
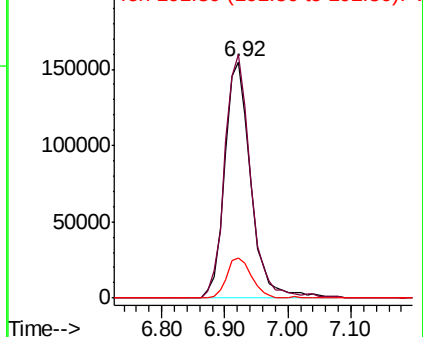
192 17.2 13.1 19.7

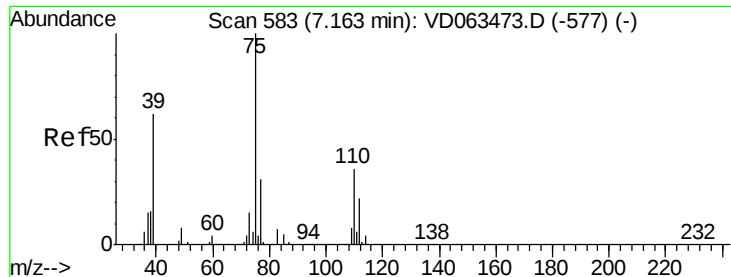


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 7.435 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.13 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

ClientSampleId :

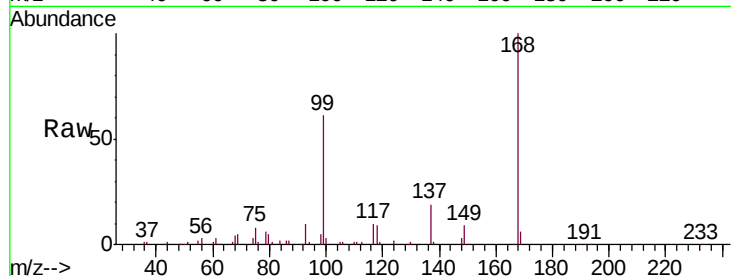
Tot Ion: 75 Resp: 41563

Ion Ratio Lower Upper

75 100

110 7.0 17.6 52.8#

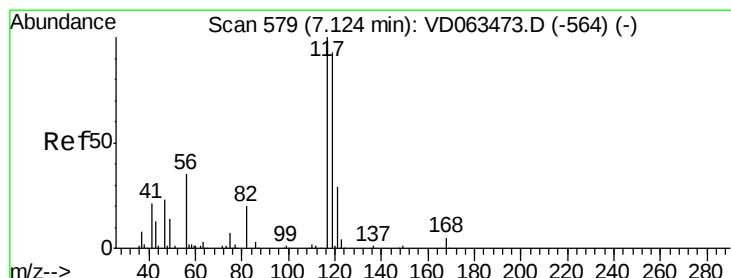
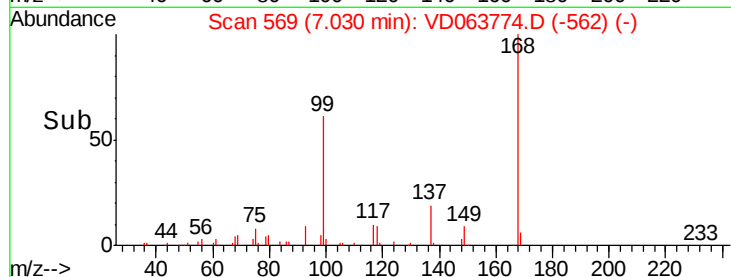
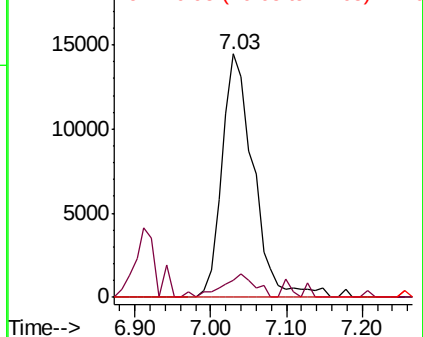
77 0.0 24.3 36.5#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 6.852 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

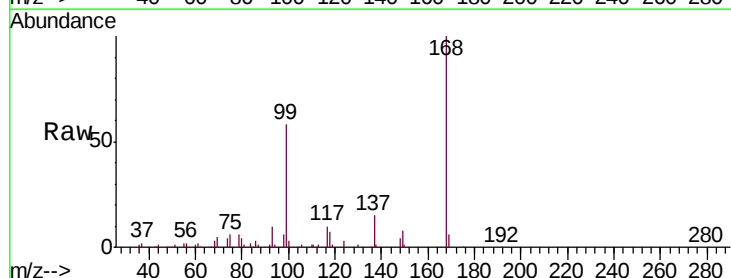
Tgt Ion: 117 Resp: 57725

Ion Ratio Lower Upper

117 100

119 7.8 74.2 111.2#

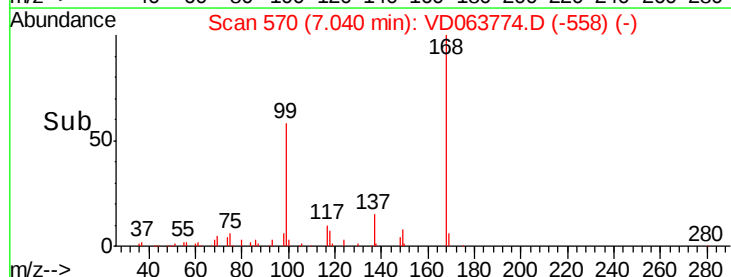
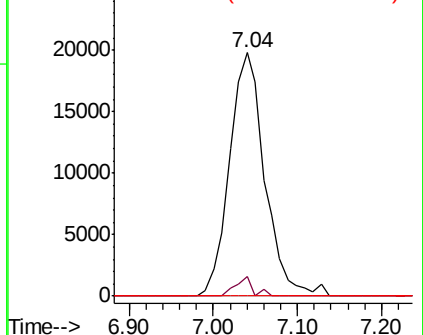
121 0.0 23.1 34.7#

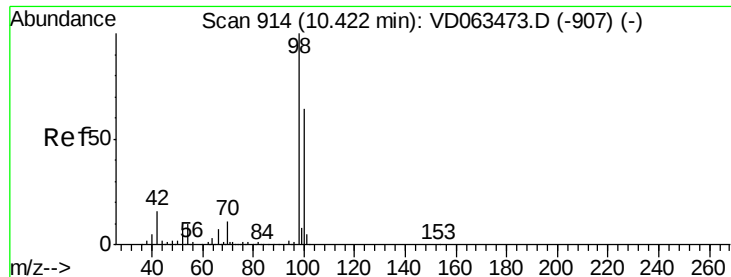


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#50

Toluene-d8

Concen: 52.962 ug/l

RT: 10.41 min Scan# 912

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

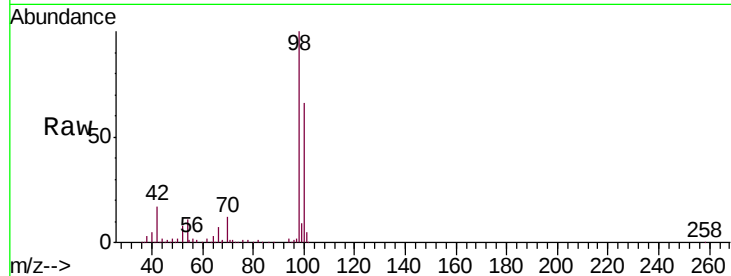
ClientSampleId :

Tot Ion: 98 Resp: 620120

Ion Ratio Lower Upper

98 100

100 66.2 51.7 77.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

300000

250000

200000

150000

100000

50000

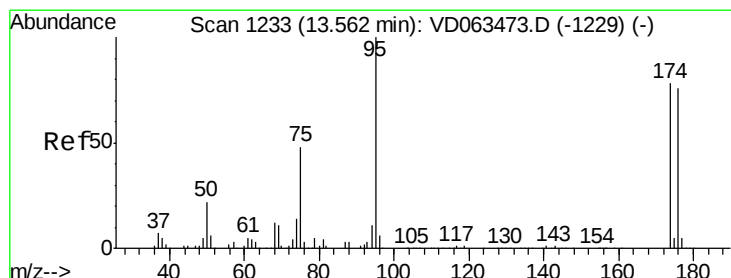
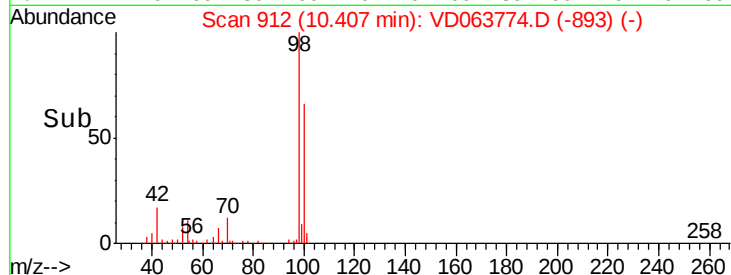
0

10.30

10.40

10.50

Time-->



#62

4-Bromofluorobenzene

Concen: 12.180 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.01 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

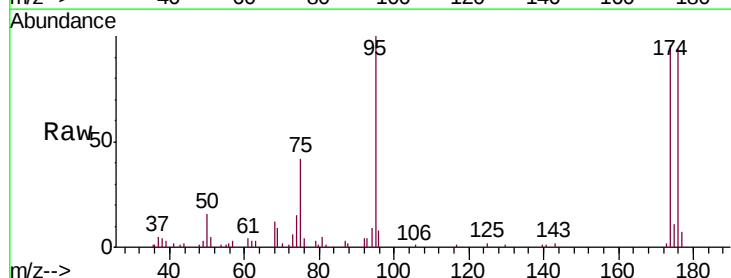
Tgt Ion: 95 Resp: 64636

Ion Ratio Lower Upper

95 100

174 95.5 0.0 155.4

176 94.4 0.0 152.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

50000

40000

30000

20000

10000

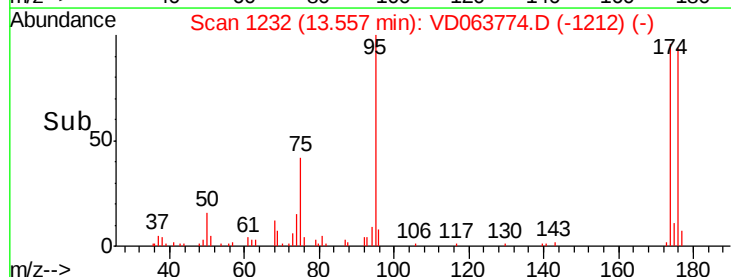
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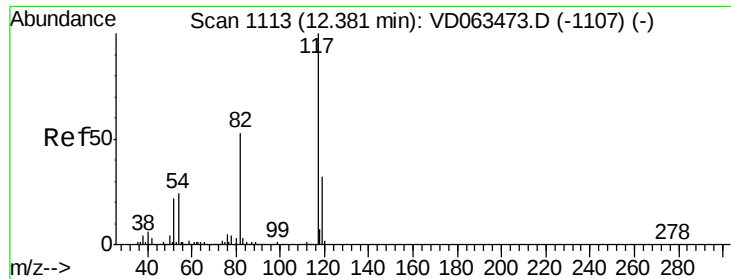
13.50

13.56

13.60

Time-->

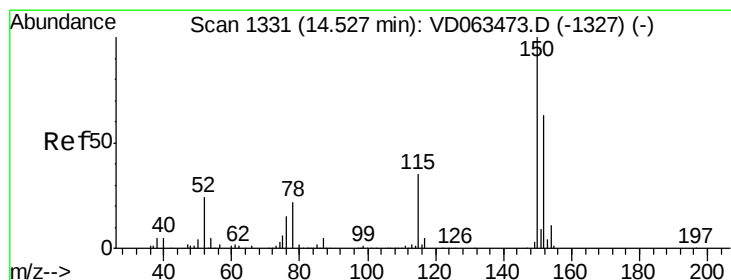
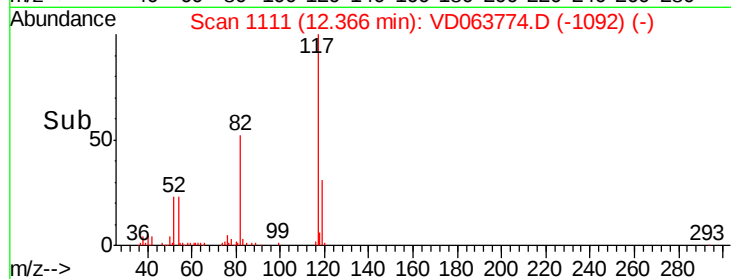
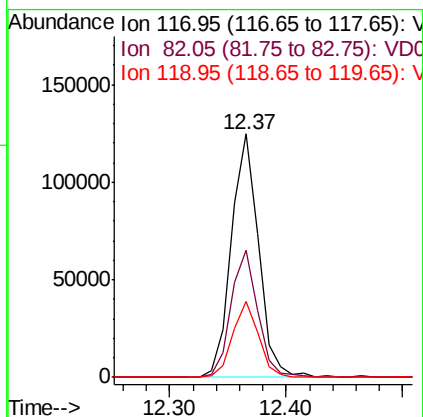
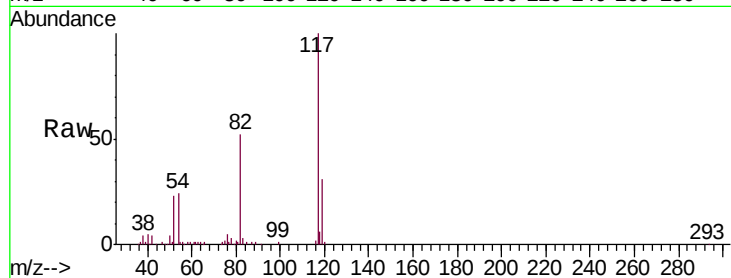




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VD063774.D
Acq: 23 Aug 2019 18:49

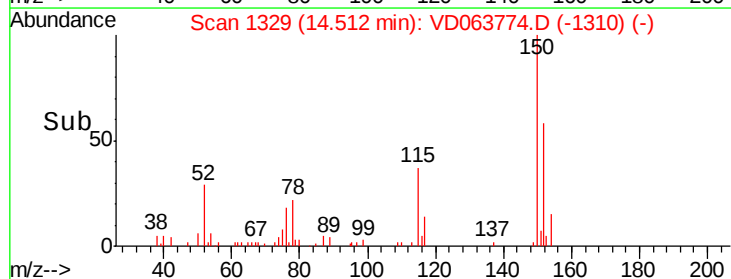
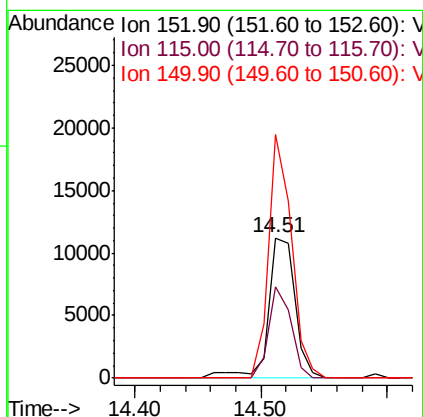
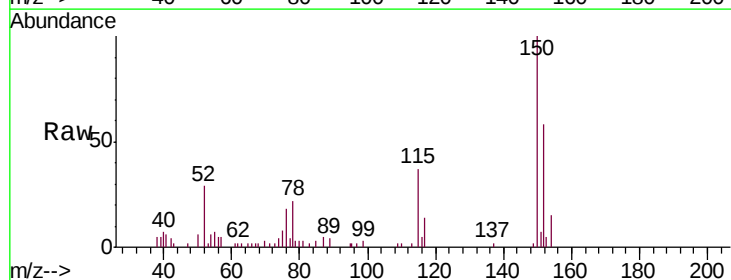
Instrument :
MSVOA_D
ClientSampleId :

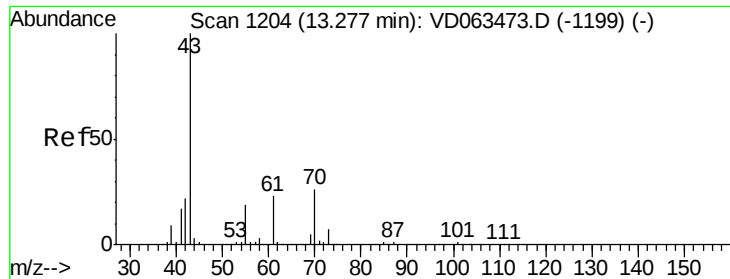
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.0	63.0
119	31.4	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD063774.D
Acq: 23 Aug 2019 18:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.9	30.9	92.7
150	173.9	0.0	318.6





#74

N-amvl acetate

Concen: 6.520 ug/l

RT: 13.29 min Scan# 1205

Delta R.T. 0.01 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 1720

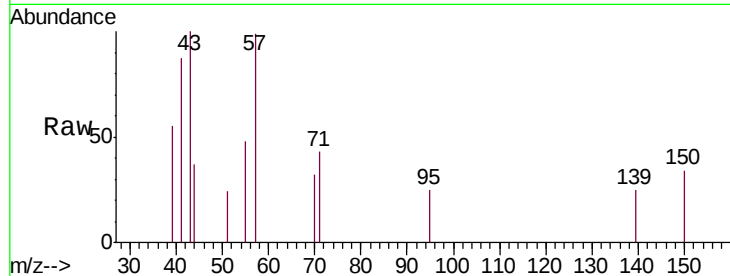
Ion Ratio Lower Upper

43 100

70 32.5 21.1 31.7#

55 48.4 15.4 23.0#

61 0.0 18.2 27.2#

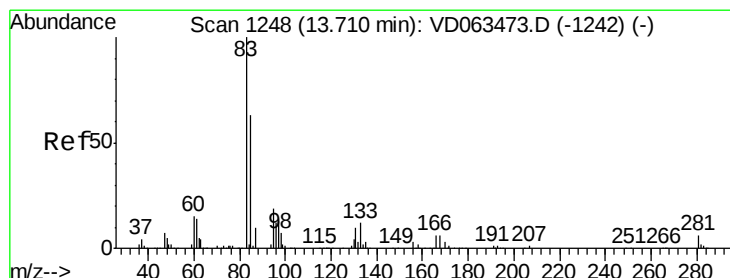
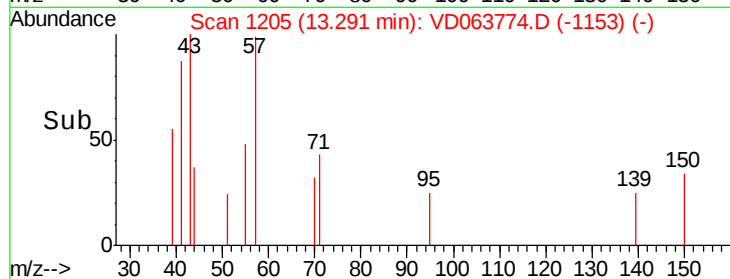
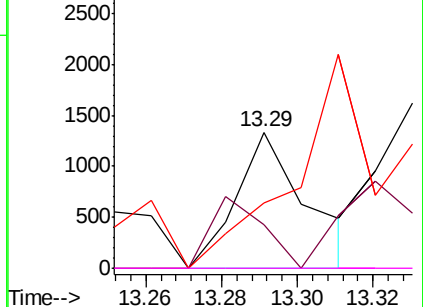


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 14.051 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

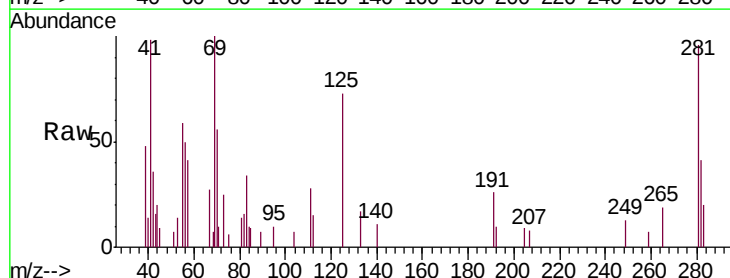
Tgt Ion: 83 Resp: 2451

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

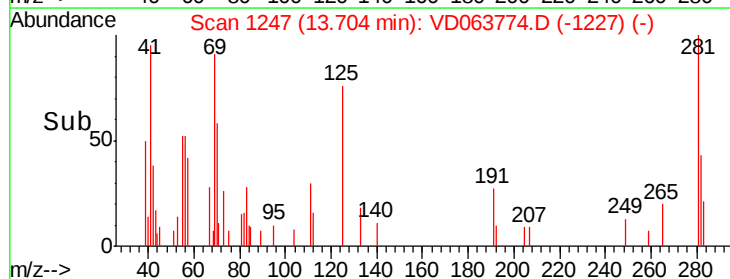
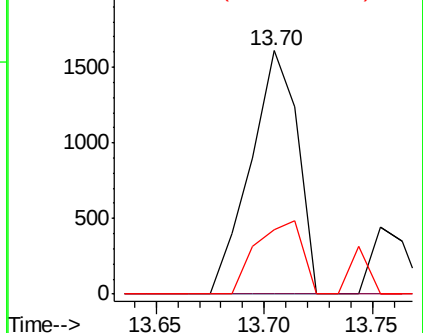
85 26.7 31.4 94.3#

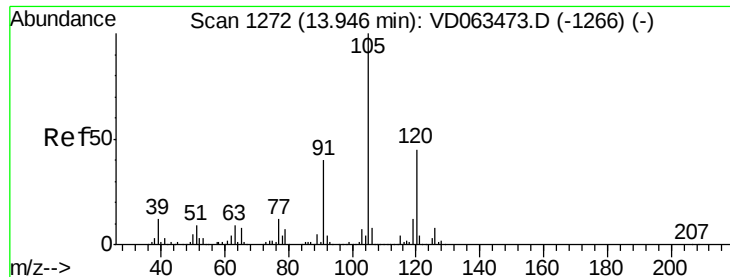


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.654 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

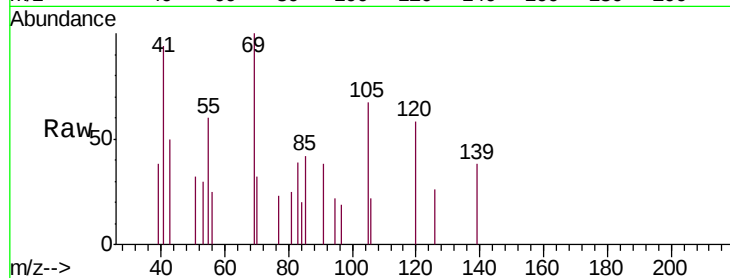
ClientSampleId :

Tot Ion:105 Resp: 1519

Ion Ratio Lower Upper

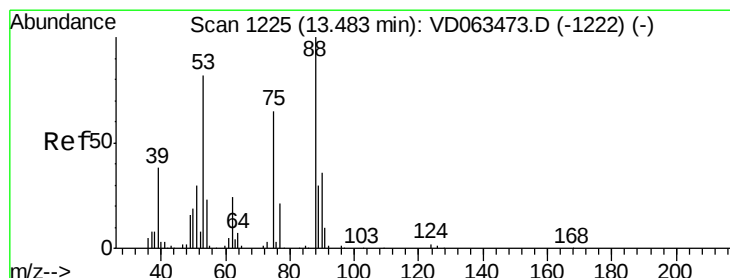
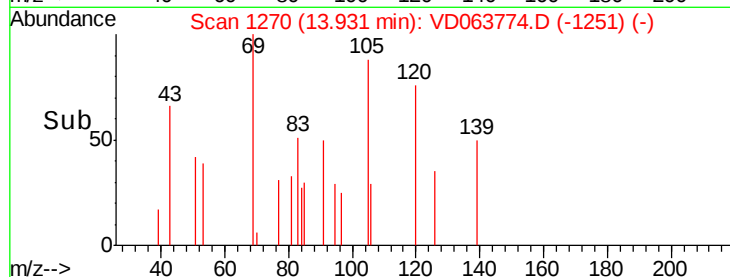
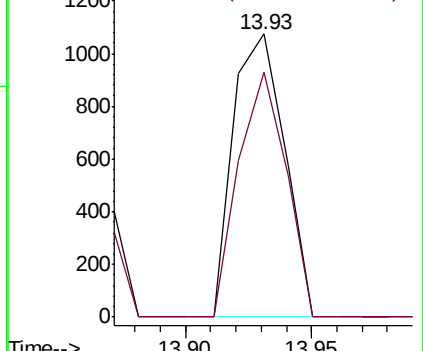
105 100

120 86.8 22.8 68.3#



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: 613.628 ug/l

RT: 13.55 min Scan# 1231

Delta R.T. 0.06 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

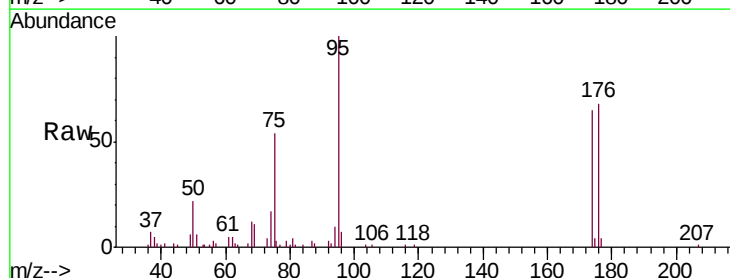
Tgt Ion: 75 Resp: 31275

Ion Ratio Lower Upper

75 100

53 4.3 101.0 151.4#

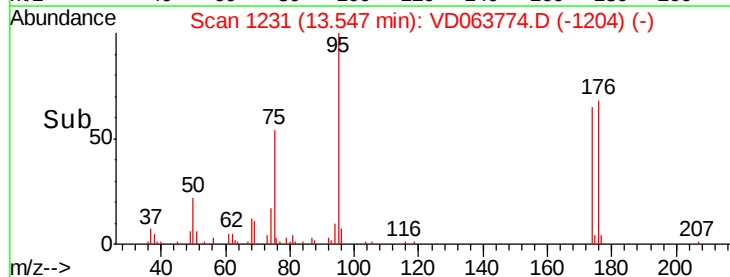
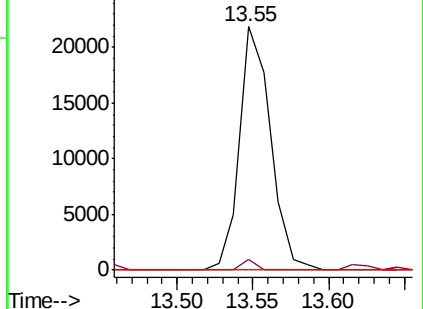
89 0.0 37.0 55.6#

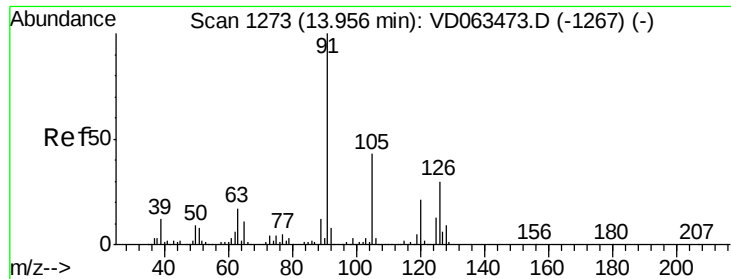


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#82

4-Chlorotoluene

Concen: 2.166 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

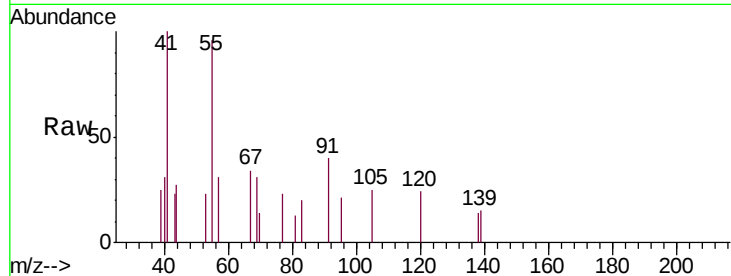
ClientSampleId :

Tot Ion: 91 Resp: 1847

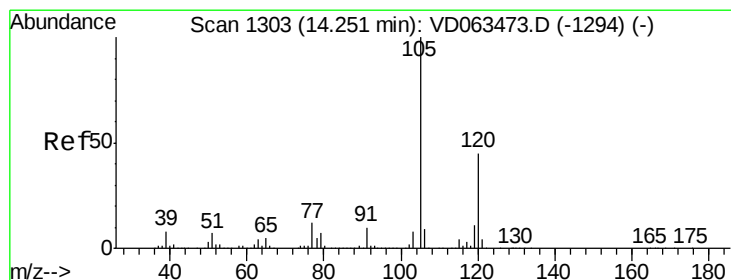
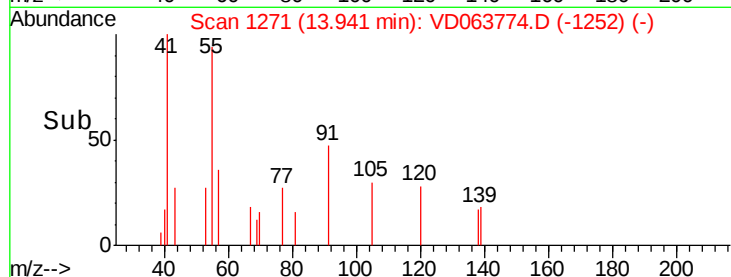
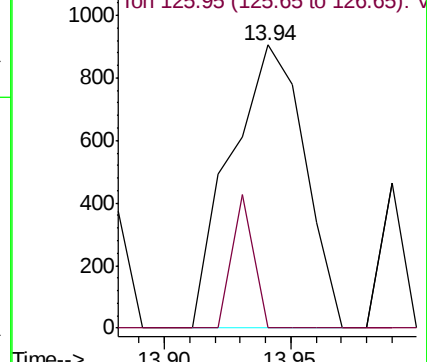
Ion Ratio Lower Upper

91 100

126 0.0 15.2 45.6#



Abundance Ion 91.00 (90.70 to 91.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.859 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.02 min

Lab File: VD063774.D

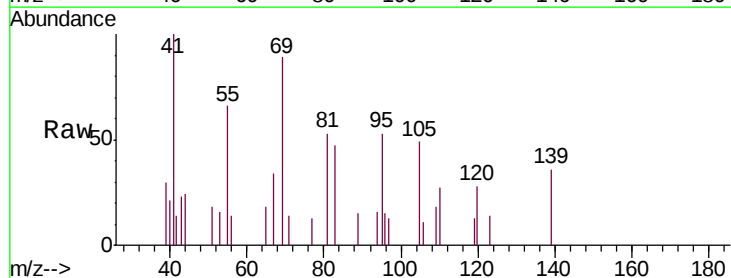
Acq: 23 Aug 2019 18:49

Tgt Ion:105 Resp: 2429

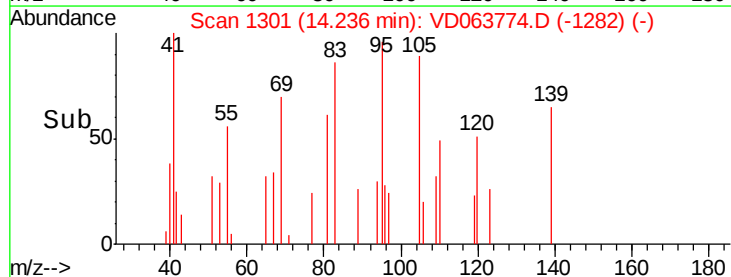
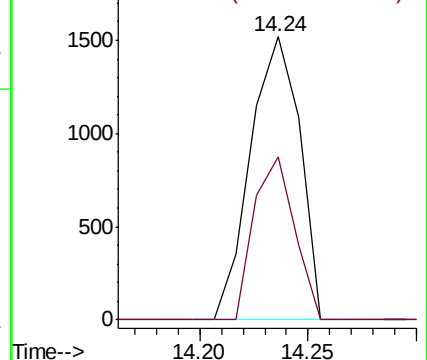
Ion Ratio Lower Upper

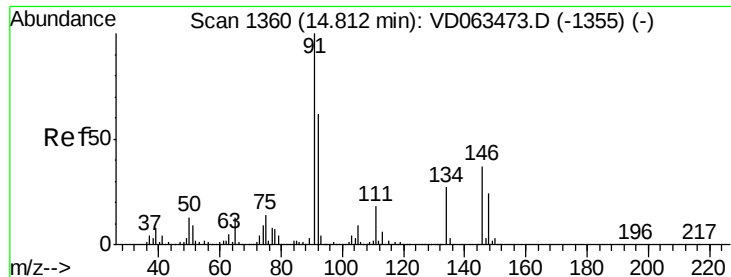
105 100

120 57.7 22.7 68.1



Abundance Ion 105.05 (104.75 to 105.75): V





#89

n-Butylbenzene

Concen: 5.024 ug/l

RT: 14.84 min Scan# 1362

Delta R.T. 0.02 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

Instrument :

MSVOA_D

ClientSampleId :

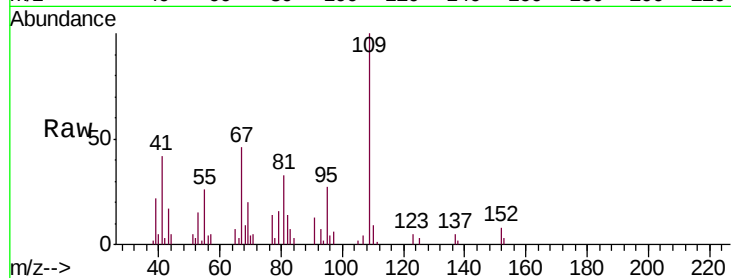
Tot Ion: 91 Resp: 4502

Ion Ratio Lower Upper

91 100

92 0.0 30.8 92.3#

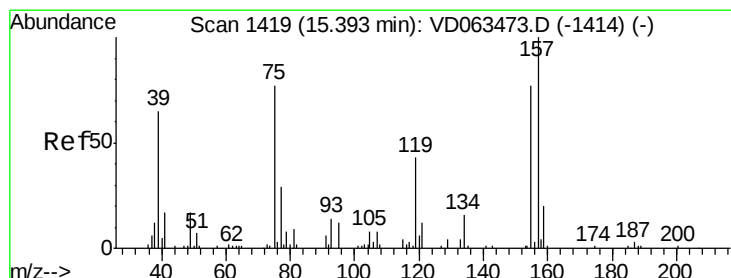
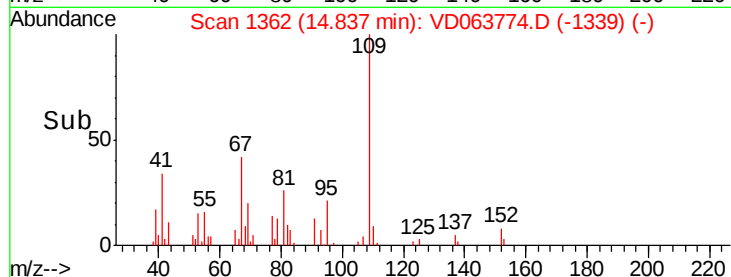
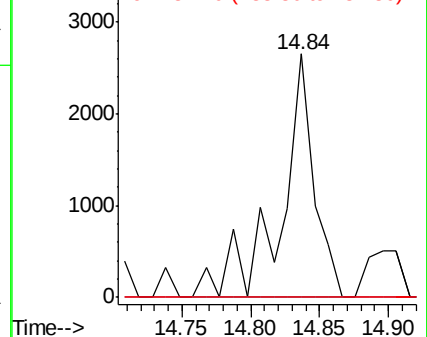
134 0.0 13.4 40.2#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#92

1,2-Dibromo-3-Chloropropane

Concen: 7.581 ug/l

RT: 15.44 min Scan# 1423

Delta R.T. 0.04 min

Lab File: VD063774.D

Acq: 23 Aug 2019 18:49

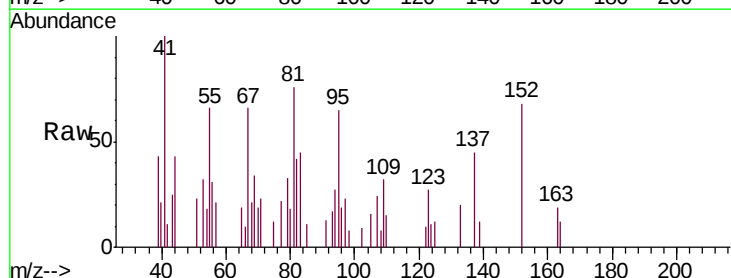
Tgt Ion: 75 Resp: 249

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

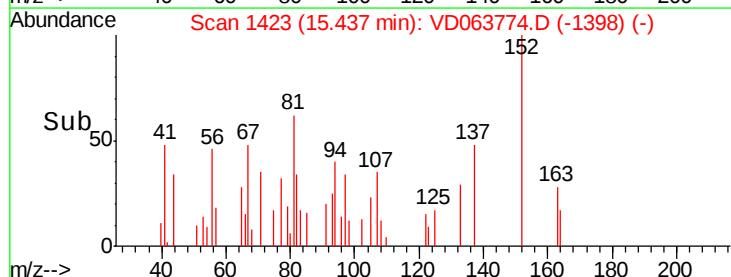
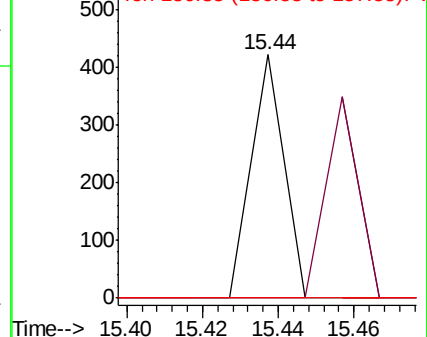
157 0.0 65.0 195.1#

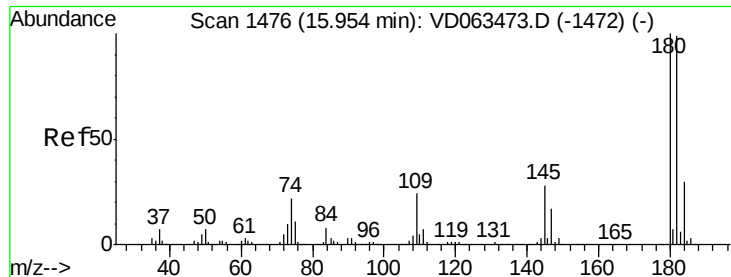


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 154.90 (154.60 to 155.60): VDC

Ion 156.85 (156.55 to 157.55): VDC

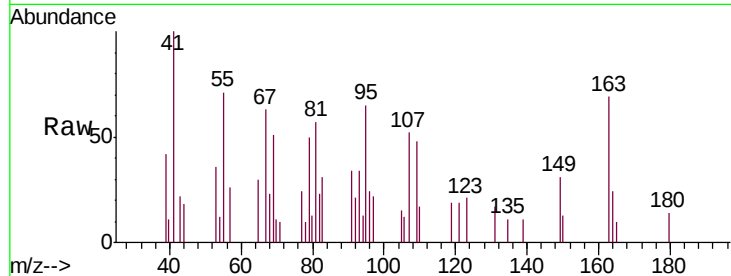




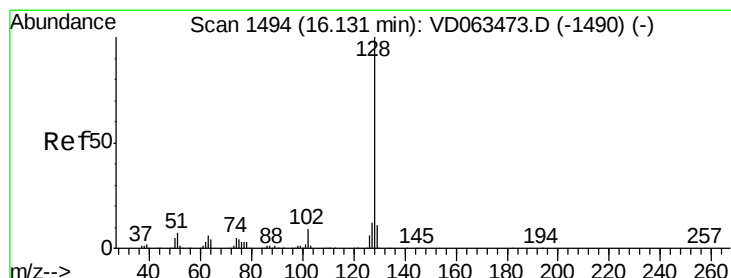
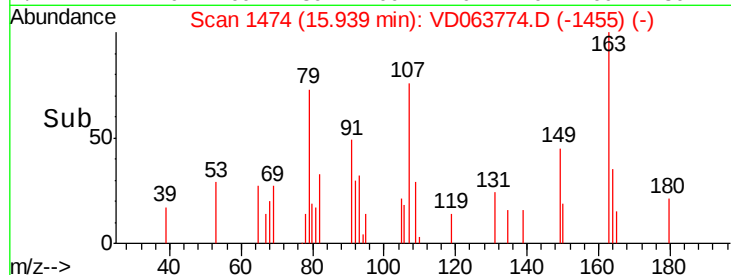
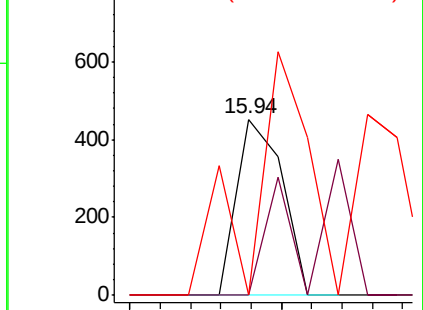
#93
 1,2,4-Trichlorobenzene
 Concen: 1.471 ug/l
 RT: 15.94 min Scan# 1474
 Delta R.T. -0.02 min
 Lab File: VD063774.D
 Acq: 23 Aug 2019 18:49

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:180 Resp: 477
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.7 149.1#
 145 0.0 14.1 42.2#

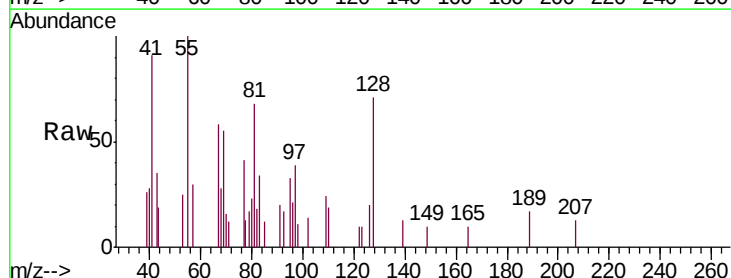


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

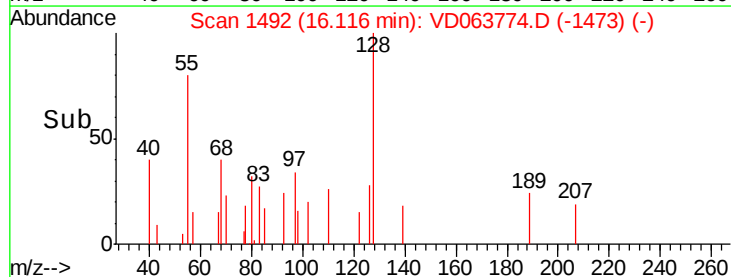
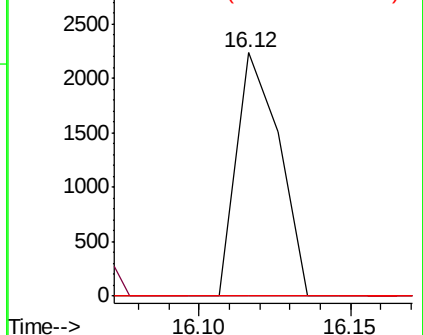


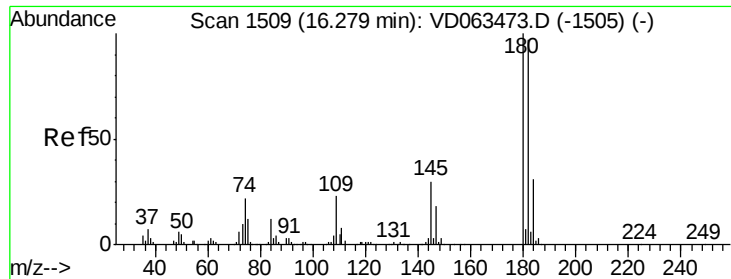
#95
 Naphthalene
 Concen: 4.508 ug/l
 RT: 16.12 min Scan# 1492
 Delta R.T. -0.02 min
 Lab File: VD063774.D
 Acq: 23 Aug 2019 18:49

Tgt Ion:128 Resp: 2216
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.4 14.0#
 129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

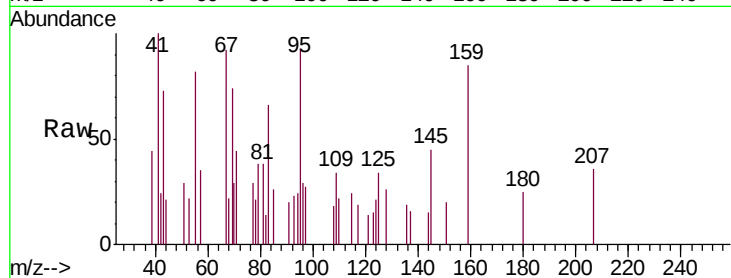




#96
 1,2,3-Trichlorobenzene
 Concen: 2.779 ug/l
 RT: 16.26 min Scan# 1507
 Delta R.T. -0.02 min
 Lab File: VD063774.D
 Acq: 23 Aug 2019 18:49

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.2#
145	183.6	14.9	44.9#



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

