

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012920\
 Data File : VD064998.D
 Acq On : 29 Jan 2020 16:28
 Operator : VA/SY
 Sample : L1313-02
 Misc : 7.06G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 29 22:11:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	22106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	33249	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	36227	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	16225	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	16892	79.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	159.32%	
35) Dibromofluoromethane	7.92	113	12462	59.64	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	119.28%	
50) Toluene-d8	10.35	98	39597	49.10	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.64	95	13921	56.41	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.82%	

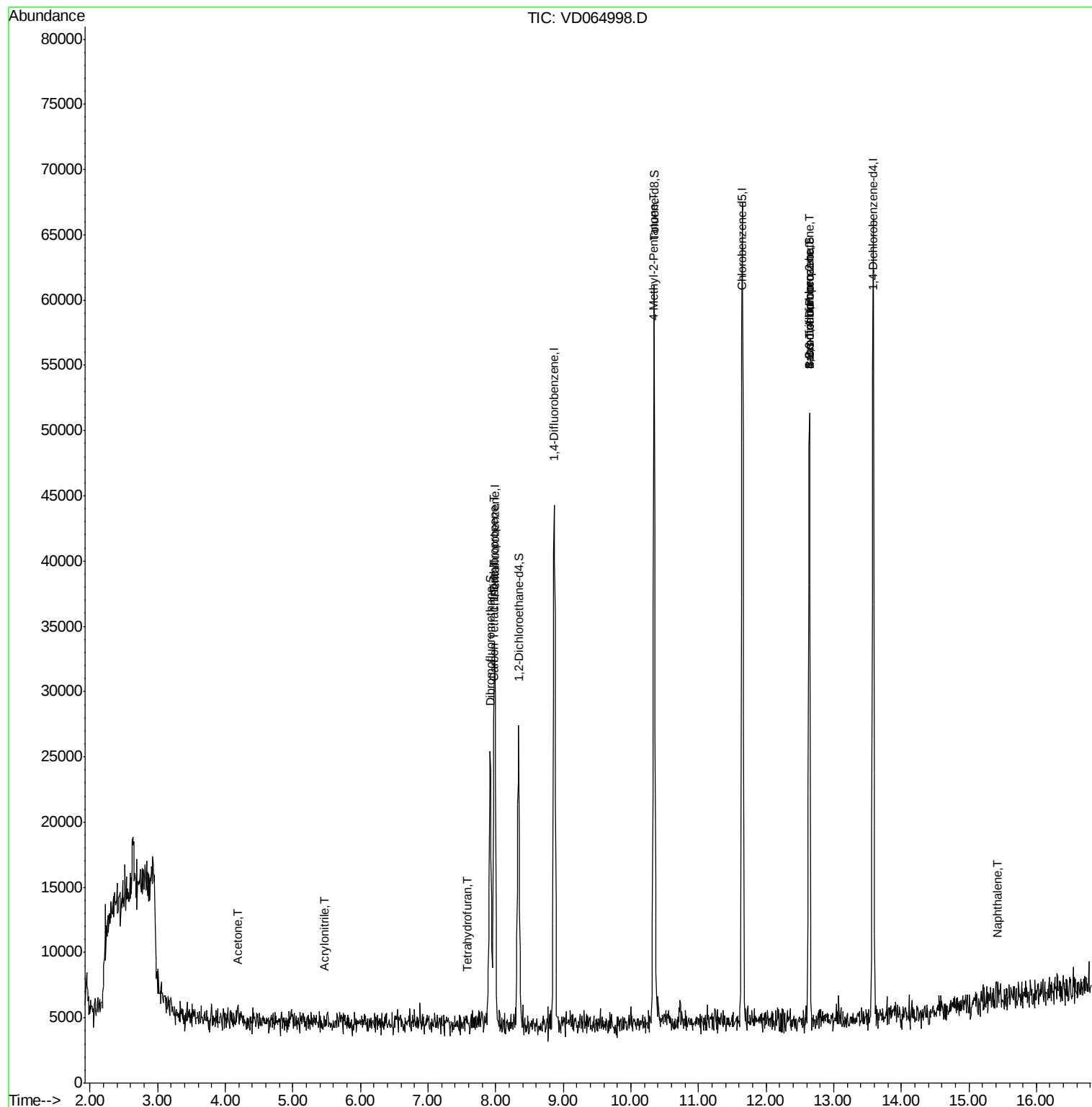
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
15) Acrylonitrile	5.47	53	85	2.008	ug/l #	17
16) Acetone	4.17	43	388	20.012	ug/l #	45
20) Methylene Chloride	4.98	84	213	Below Cal	#	62
29) Tetrahydrofuran	7.58	42	62	1.754	ug/l #	34
36) 1,1-Dichloropropene	7.97	75	1904	5.939	ug/l #	44
38) Carbon Tetrachloride	7.97	117	2270	6.699	ug/l #	14
51) 4-Methyl-2-Pentanone	10.33	43	155	1.231	ug/l #	37
71) Bromoform	12.64	173	181	1.177	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	7585	56.323	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	7585	120.263	ug/l #	9
95) Naphthalene	15.43	128	812	1.645	ug/l #	68

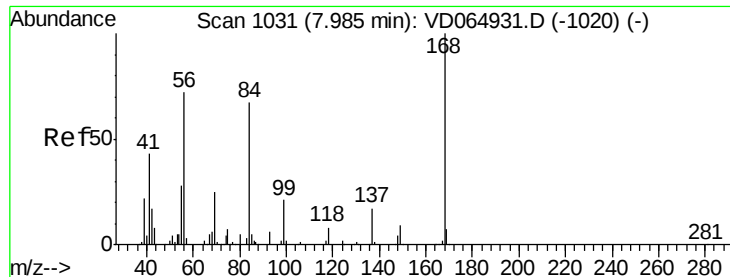
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

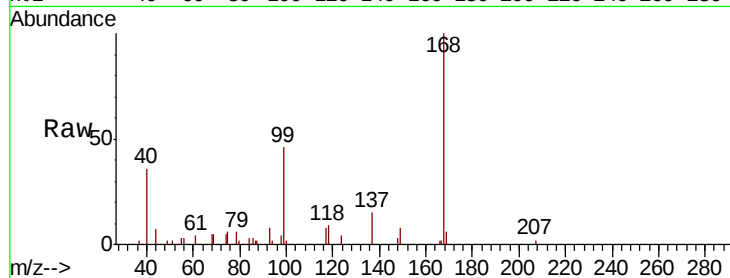
ClientSampleId :

Tot Ion:168 Resp: 22106

Ion Ratio Lower Upper

168 100

99 46.5 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

12000

10000

8000

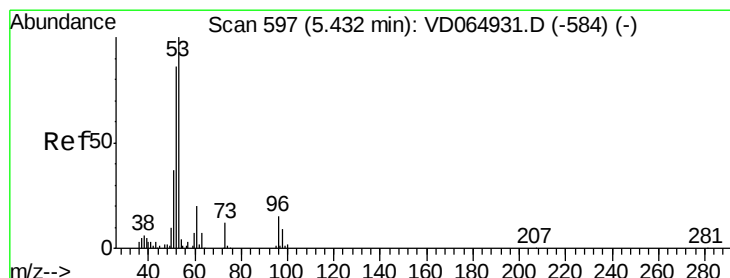
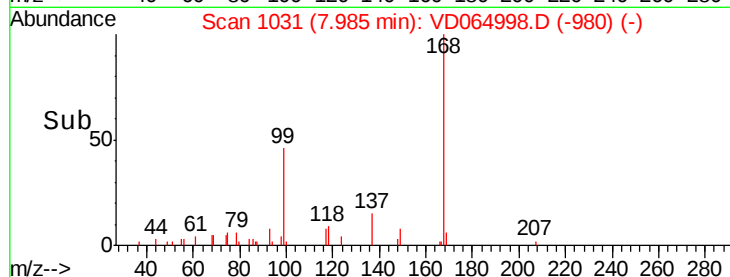
6000

4000

2000

0

Time-->



#15

Acrylonitrile

Concen: 2.008 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.04 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

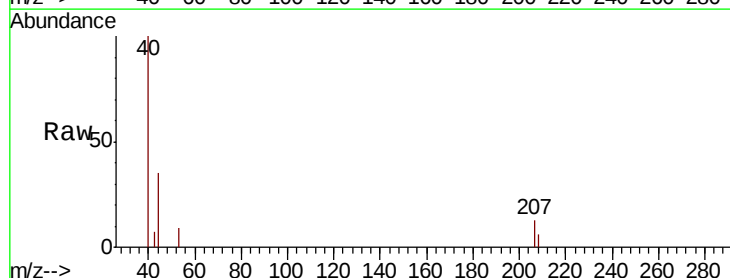
Tgt Ion: 53 Resp: 85

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 31.1 46.7#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

5.47

300

250

200

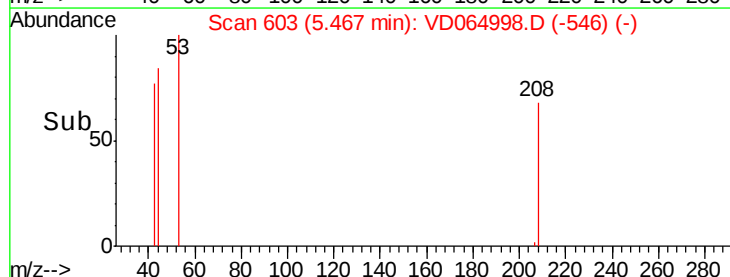
150

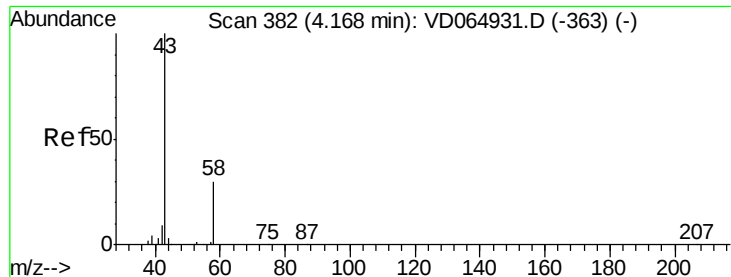
100

50

0

Time-->





#16

Acetone

Concen: 20.012 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

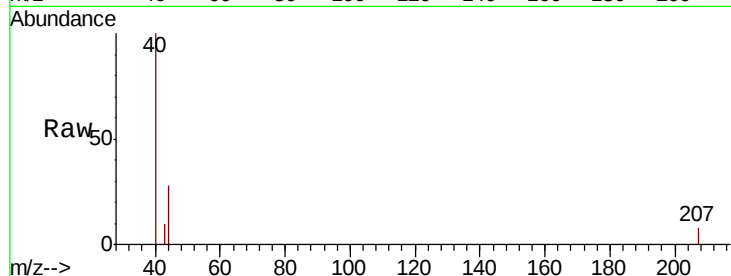
ClientSampleId :

Tot Ion: 43 Resp: 388

Ion Ratio Lower Upper

43 100

58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

400

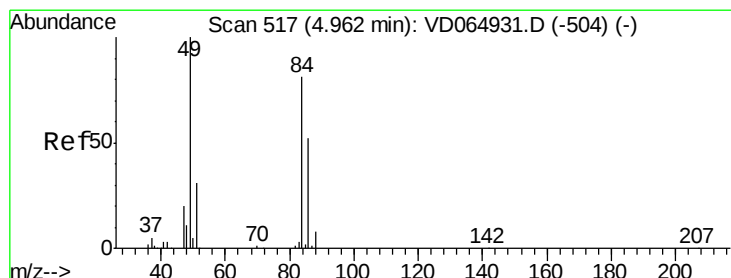
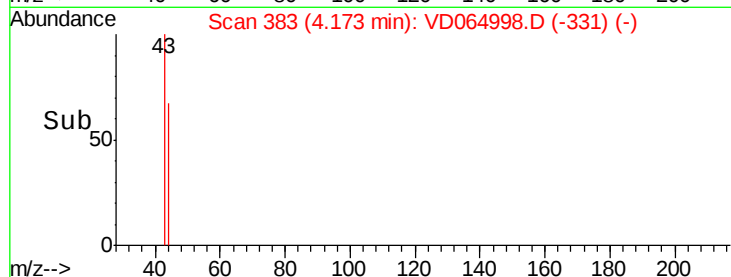
300

200

100

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Tgt Ion: 84 Resp: 213

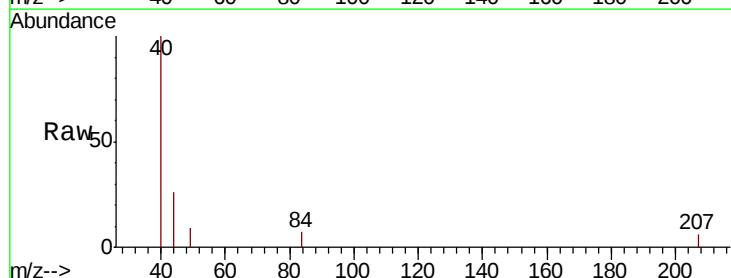
Ion Ratio Lower Upper

84 100

49 131.1 98.4 147.6

51 0.0 30.8 46.2#

86 0.0 51.0 76.6#



Abundance Ion 83.90 (83.60 to 84.60): 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

500

400

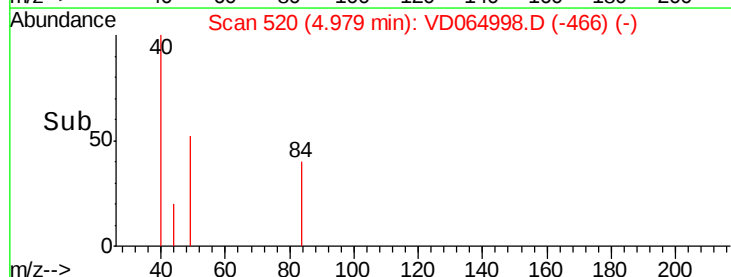
300

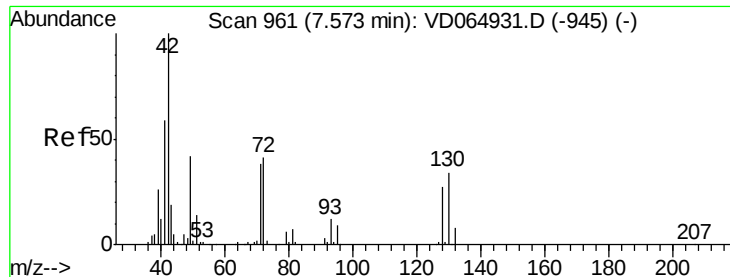
200

100

0

Time-->





#29

Tetrahydrofuran

Concen: 1.754 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

ClientSampleId :

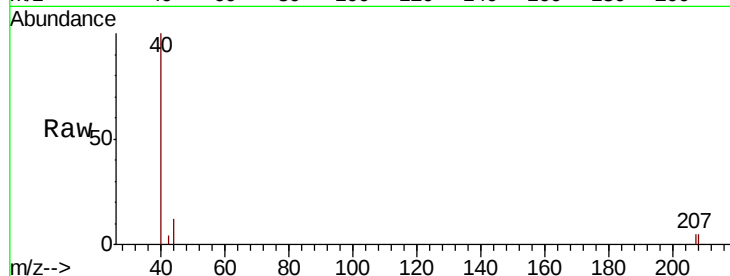
Tot Ion: 42 Resp: 62

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

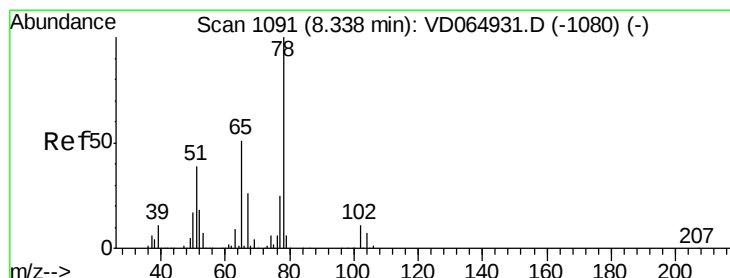
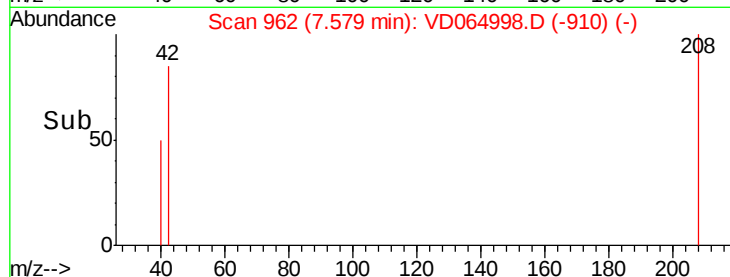
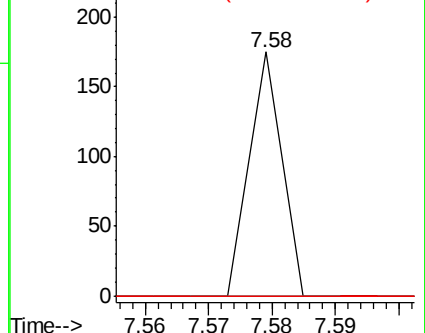
71 0.0 31.5 47.3#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 79.663 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064998.D

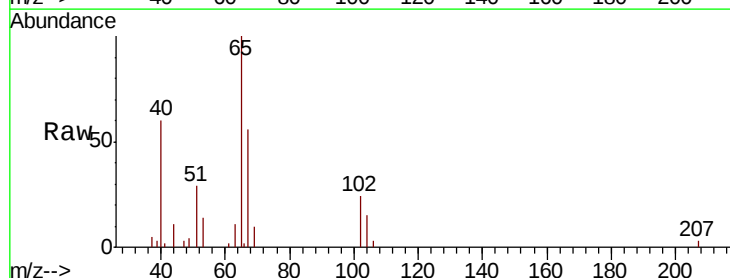
Acq: 29 Jan 2020 16:28

Tgt Ion: 65 Resp: 16892

Ion Ratio Lower Upper

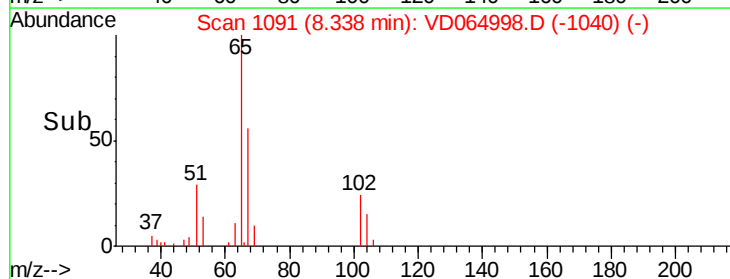
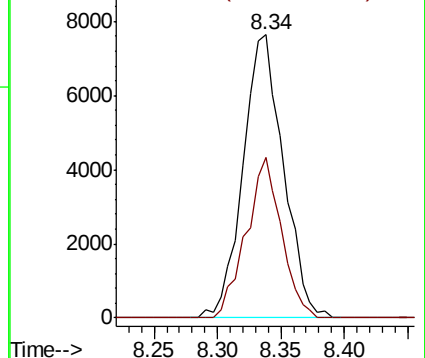
65 100

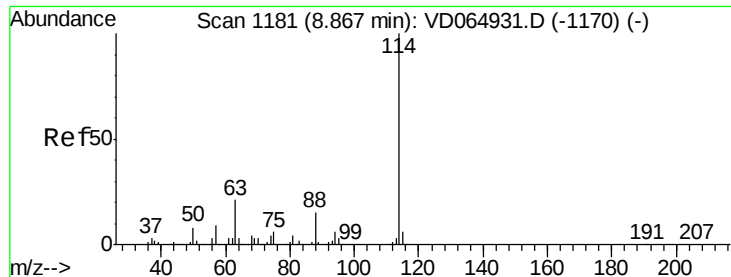
67 49.5 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

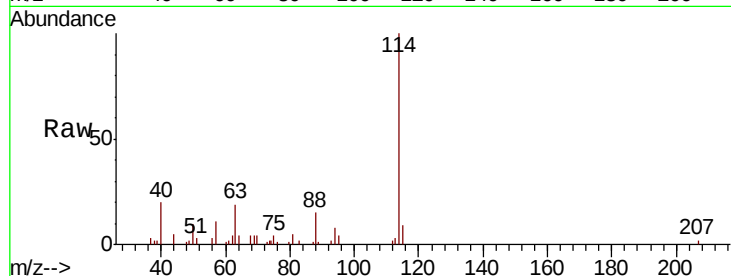




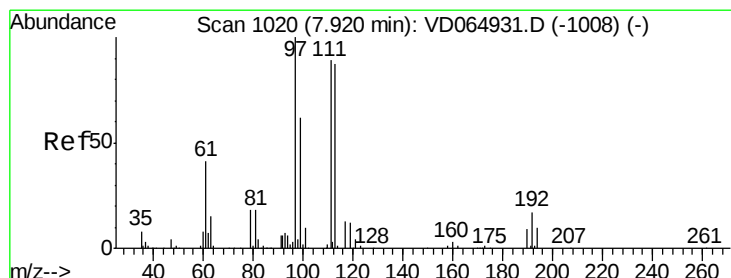
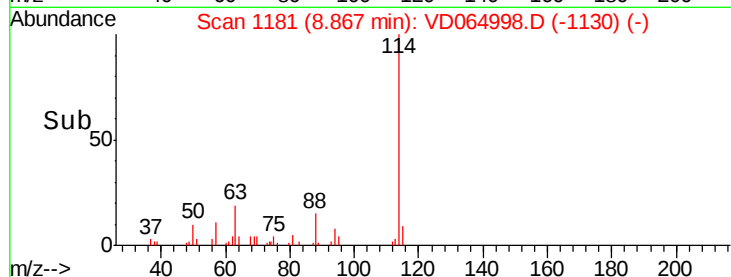
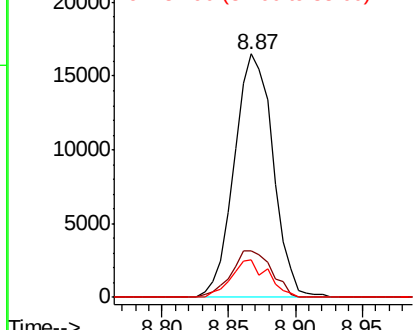
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064998.D
 Acq: 29 Jan 2020 16:28

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	42.0
88	15.2	0.0	29.4

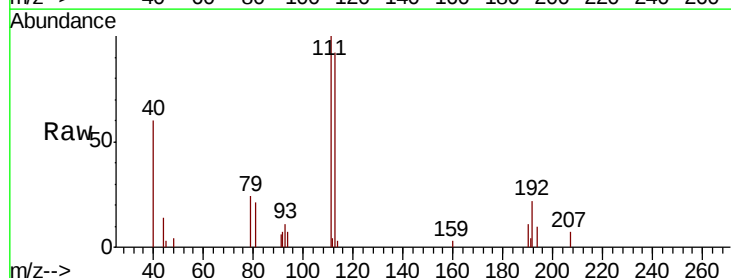


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

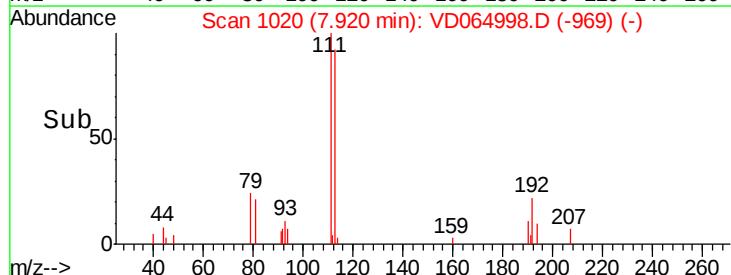
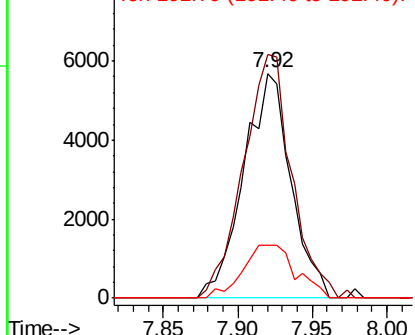


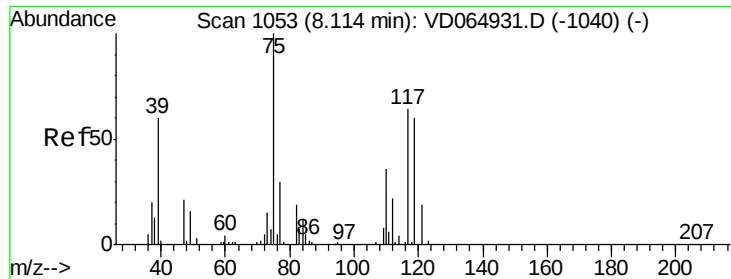
#35
 Dibromofluoromethane
 Concen: 59.644 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064998.D
 Acq: 29 Jan 2020 16:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	111.4	82.4	123.6
192	26.4	16.9	25.3#



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.939 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

ClientSampleId :

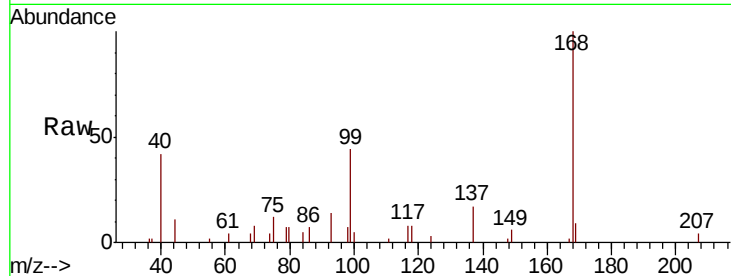
Tot Ion: 75 Resp: 1904

Ion Ratio Lower Upper

75 100

110 2.8 17.3 52.0#

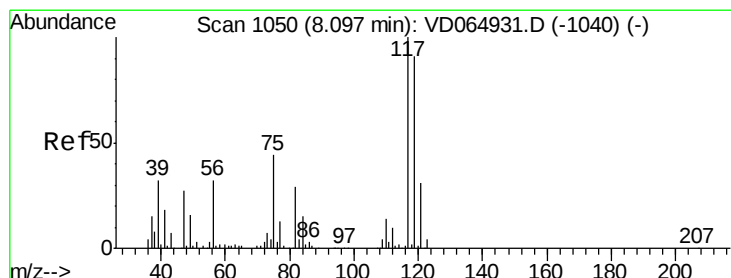
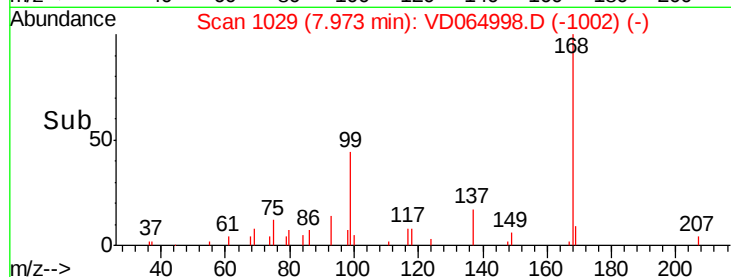
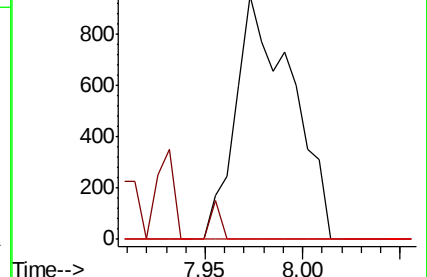
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



#38

Carbon Tetrachloride

Concen: 6.699 ug/l

RT: 7.97 min Scan# 1028

Delta R.T. -0.13 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

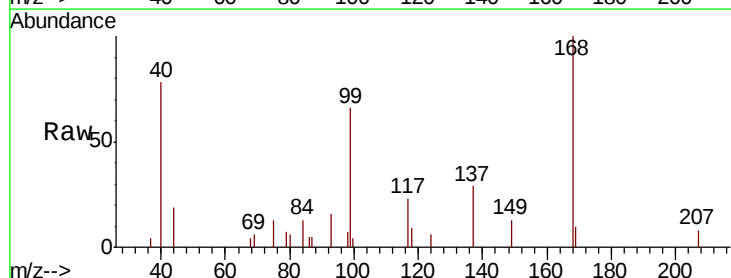
Tgt Ion: 117 Resp: 2270

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

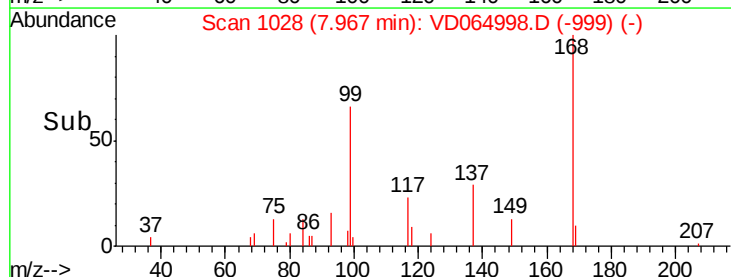
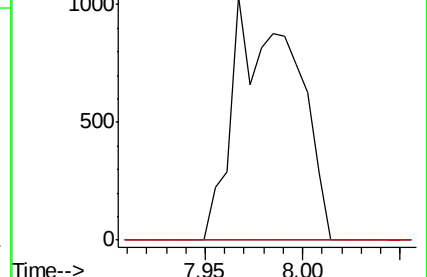
121 0.0 24.4 36.6#

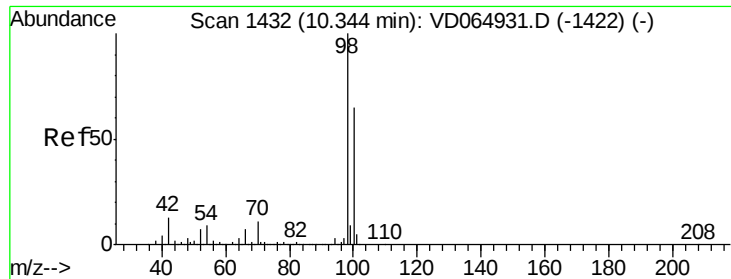


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.101 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.01 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

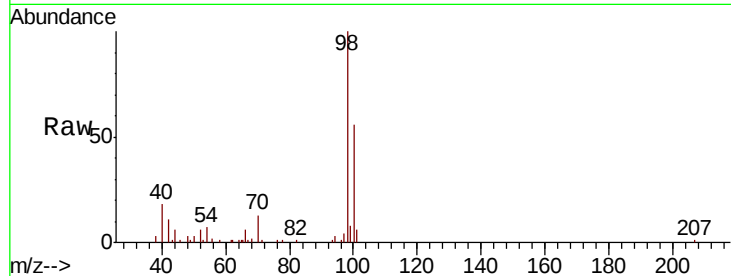
ClientSampleId :

Tot Ion: 98 Resp: 39597

Ion Ratio Lower Upper

98 100

100 64.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.35

25000

20000

15000

10000

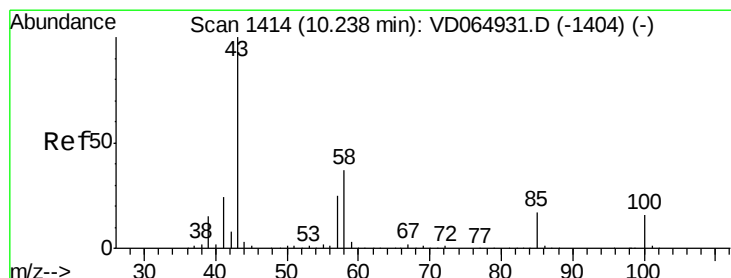
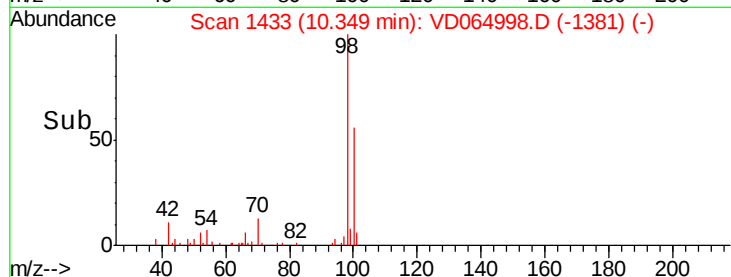
5000

0

Time-->

10.30

10.40



#51

4-Methyl-2-Pentanone

Concen: 1.231 ug/l

RT: 10.33 min Scan# 1430

Delta R.T. 0.09 min

Lab File: VD064998.D

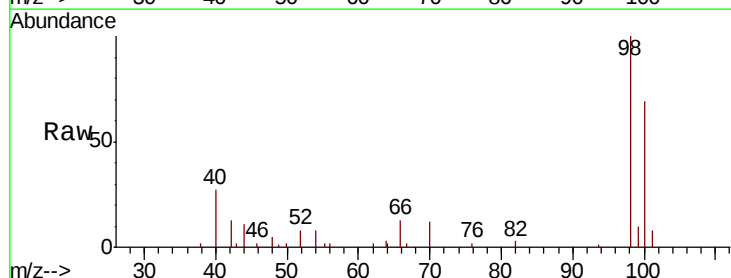
Acq: 29 Jan 2020 16:28

Tgt Ion: 43 Resp: 155

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.33

300

250

200

150

100

50

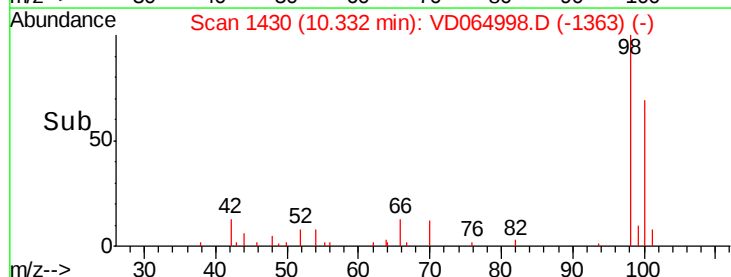
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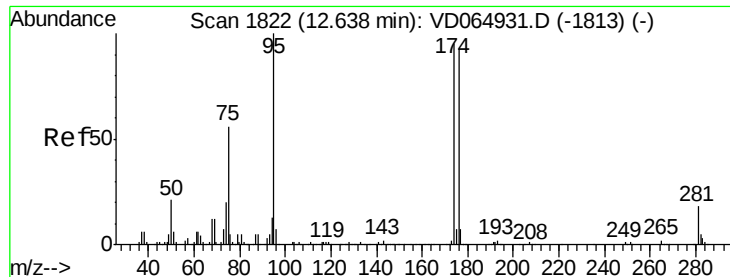
Time-->

10.30

10.32

10.34

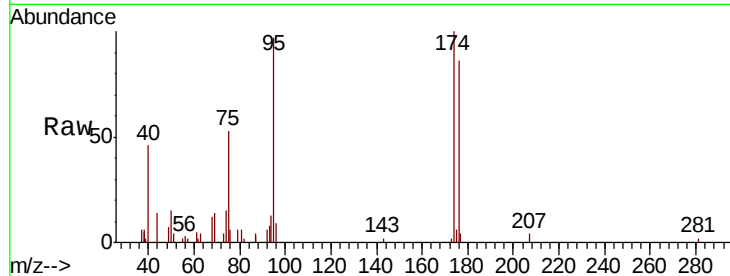




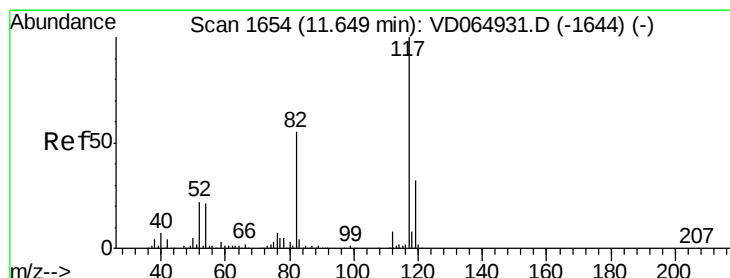
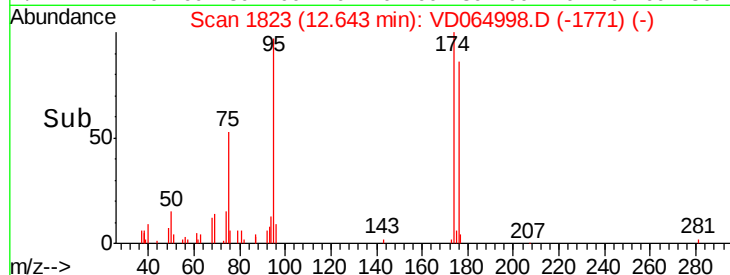
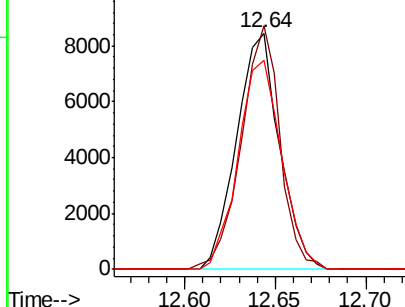
#62
4-Bromofluorobenzene
Concen: 56.409 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD064998.D
Acq: 29 Jan 2020 16:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 13921
Ion Ratio Lower Upper
95 100
174 92.8 0.0 186.8
176 89.5 0.0 183.4

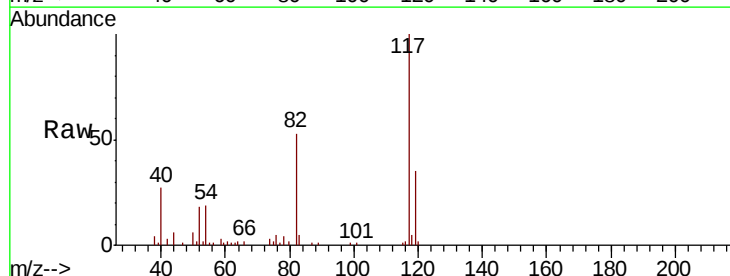


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

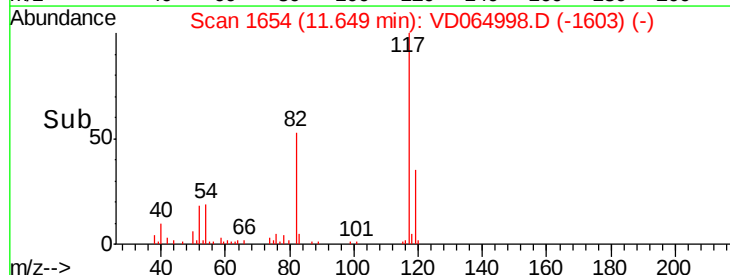
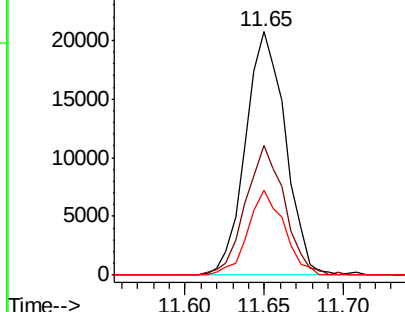


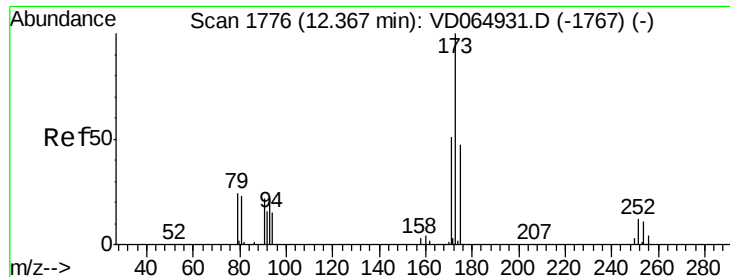
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064998.D
Acq: 29 Jan 2020 16:28

Tgt Ion: 117 Resp: 36227
Ion Ratio Lower Upper
117 100
82 53.2 43.6 65.4
119 35.1 25.2 37.8



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

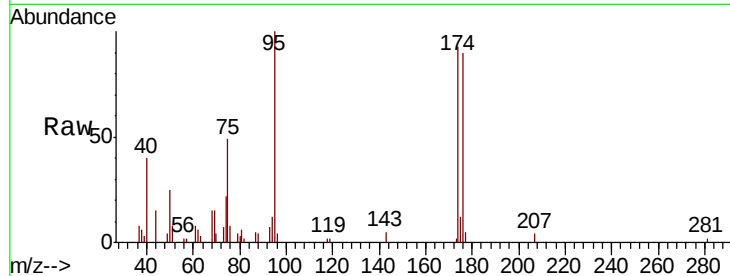




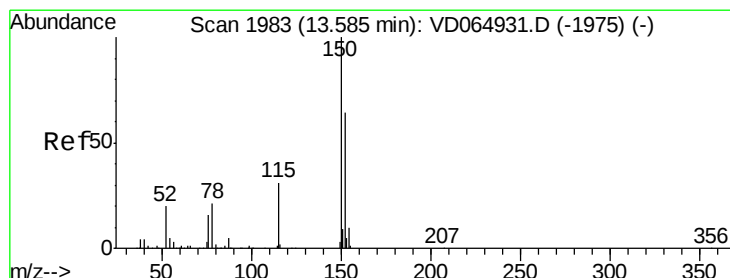
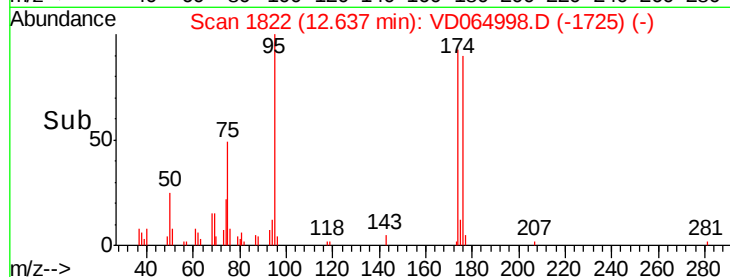
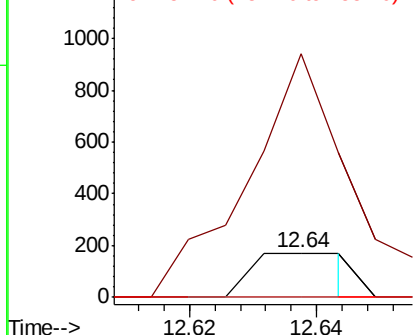
#71
Bromoform
Concen: 1.177 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.27 min
Lab File: VD064998.D
Acq: 29 Jan 2020 16:28

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 181
Ion Ratio Lower Upper
173 100
175 501.7 24.6 73.8#
254 0.0 0.1 0.1#

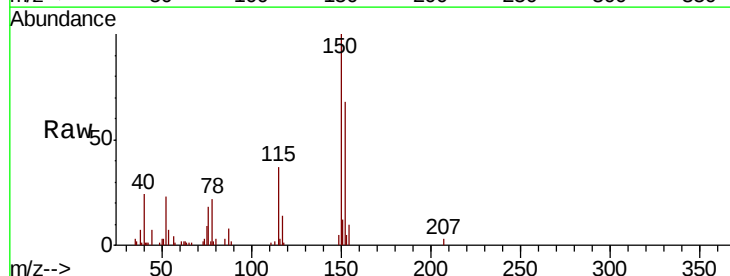


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

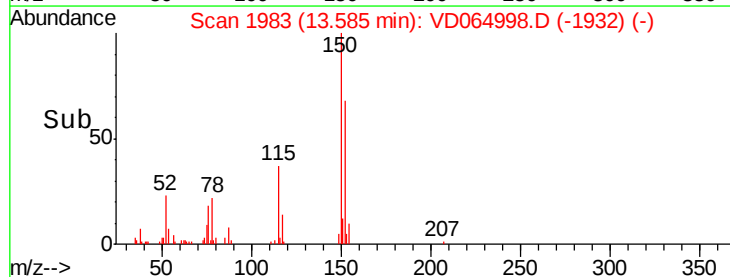
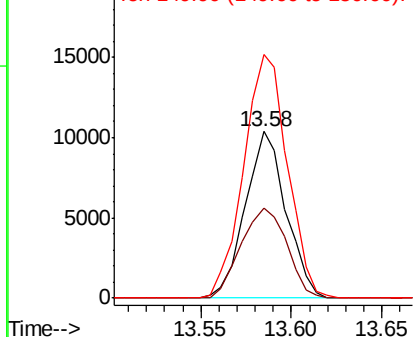


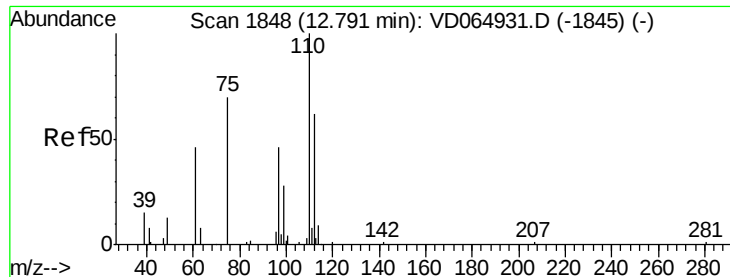
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064998.D
Acq: 29 Jan 2020 16:28

Tgt Ion:152 Resp: 16225
Ion Ratio Lower Upper
152 100
115 60.7 28.1 84.4
150 156.5 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 56.323 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

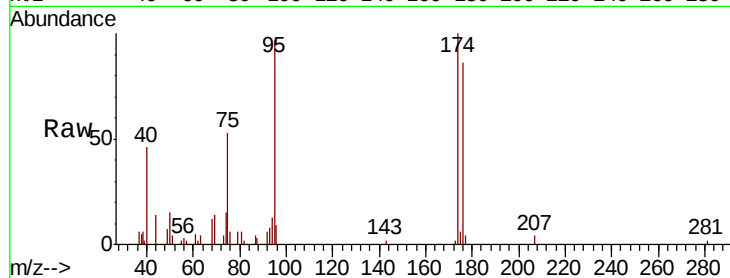
ClientSampled :

Tot Ion: 75 Resp: 7585

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.64

5000

4000

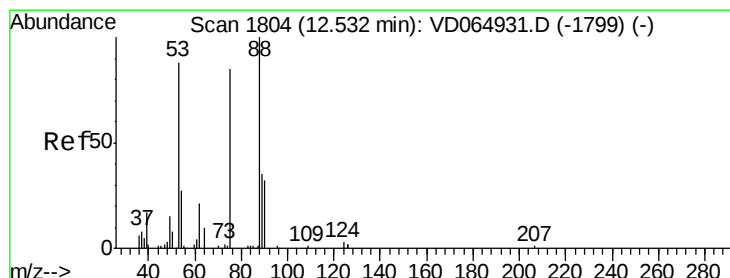
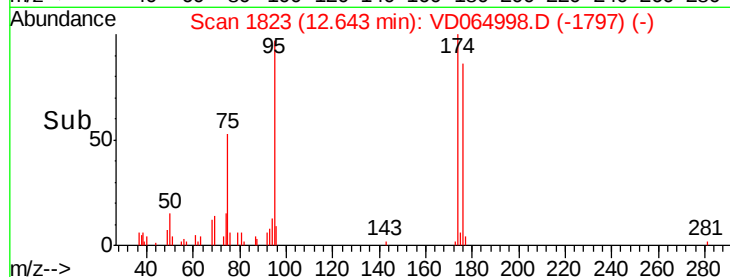
3000

2000

1000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 120.263 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

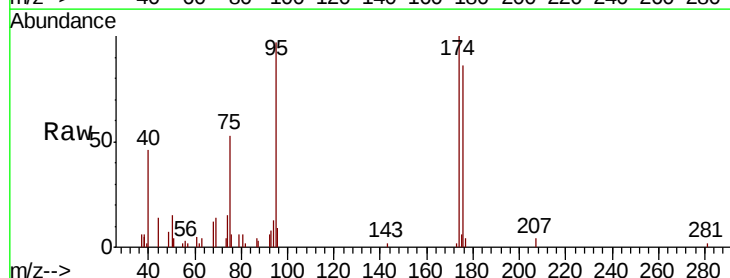
Tgt Ion: 75 Resp: 7585

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

6000

5000

4000

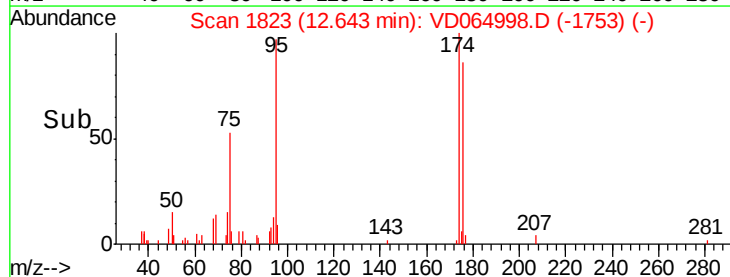
3000

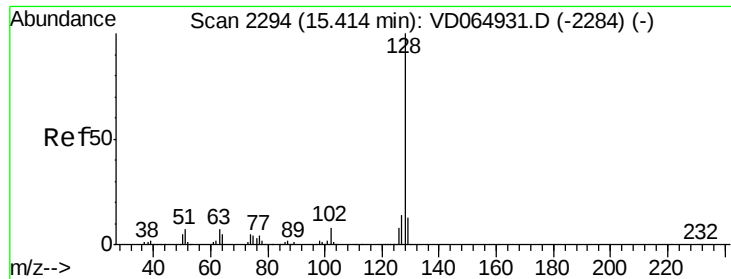
2000

1000

0

Time-->





#95

Napthalene

Concen: 1.645 ug/l

RT: 15.43 min Scan# 2297

Delta R.T. 0.02 min

Lab File: VD064998.D

Acq: 29 Jan 2020 16:28

Instrument :

MSVOA_D

ClientSampleId :

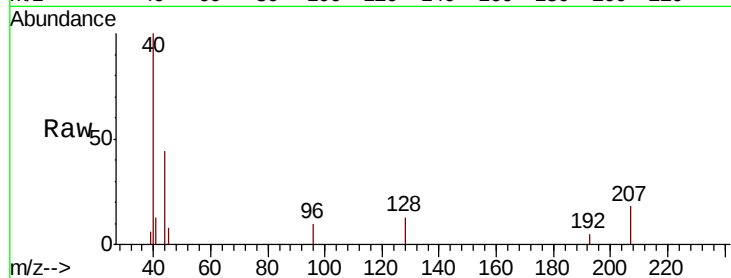
Tot Ion:128 Resp: 812

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 9.3 13.9#



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

