

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120419\
 Data File : VD064423.D
 Acq On : 04 Dec 2019 18:14
 Operator : VA/SY
 Sample : K6145-03
 Misc : 7.77G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 05 03:50:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	620875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1049008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	976900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	461016	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	301097	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	
35) Dibromofluoromethane	7.92	113	329857	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
50) Toluene-d8	10.34	98	1275012	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	12.64	95	409840	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	

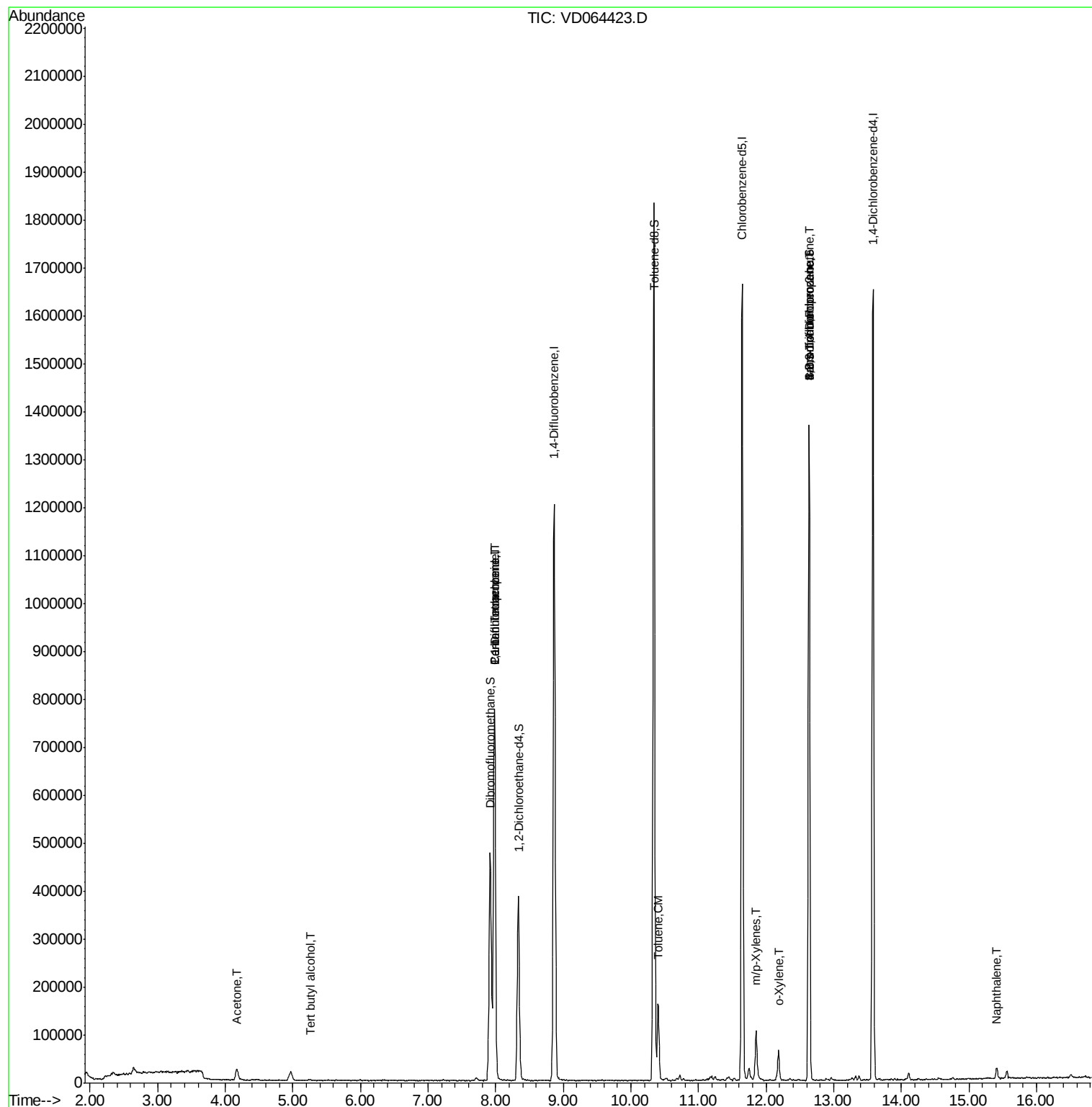
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	2906	8.123	ug/l #	100
16) Acetone	4.17	43	42011	36.993	ug/l	95
20) Methylene Chloride	4.97	84	13785	Below Cal	#	85
31) Cyclohexane	7.97	56	12254	Below Cal	#	14
36) 1,1-Dichloropropene	7.98	75	43178	4.352	ug/l #	50
38) Carbon Tetrachloride	7.98	117	58272	5.565	ug/l #	14
52) Toluene	10.40	92	64592	3.596	ug/l	97
68) m/p-Xylenes	11.86	106	31548	2.282	ug/l	100
69) o-Xylene	12.18	106	17481	1.369	ug/l	90
71) Bromoform	12.64	173	4581	1.015	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	214667	56.622	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	214667	123.465	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.68	75	65	Below Cal	#	1
95) Naphthalene	15.41	128	18567	1.094	ug/l #	95

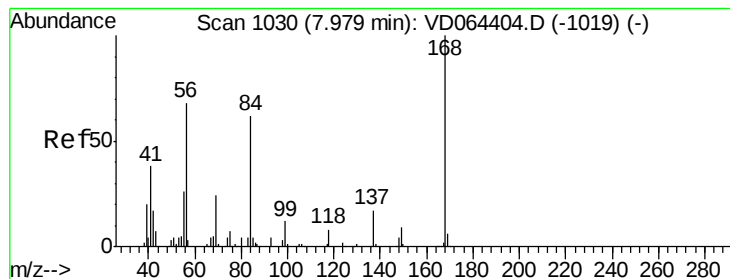
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

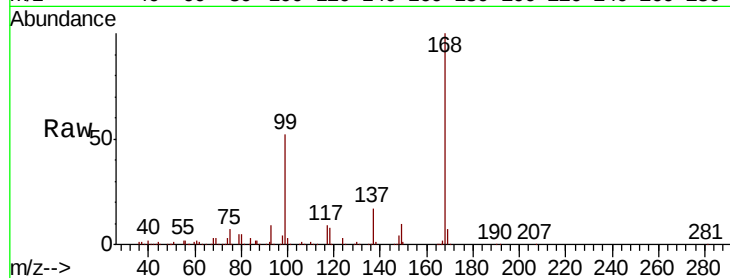
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 620875

Ion Ratio Lower Upper

168 100

99 51.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

300000

250000

200000

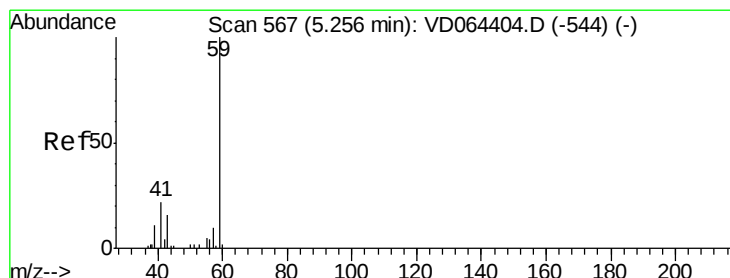
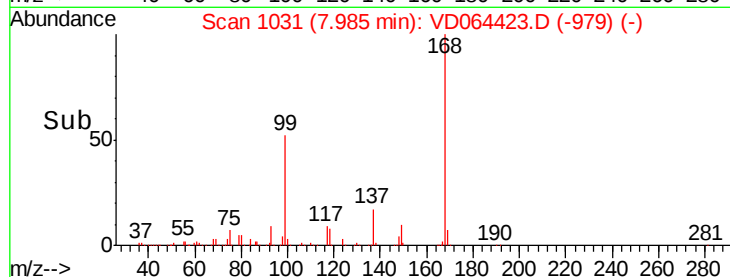
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 8.123 ug/l

RT: 5.26 min Scan# 567

Delta R.T. -0.00 min

Lab File: VD064423.D

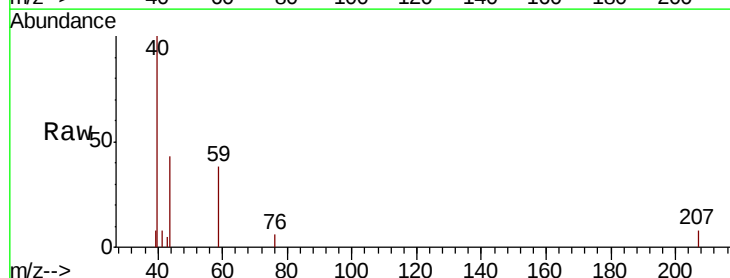
Acq: 04 Dec 2019 18:14

Tgt Ion: 59 Resp: 2906

Ion Ratio Lower Upper

59 100

57 4.9 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.26

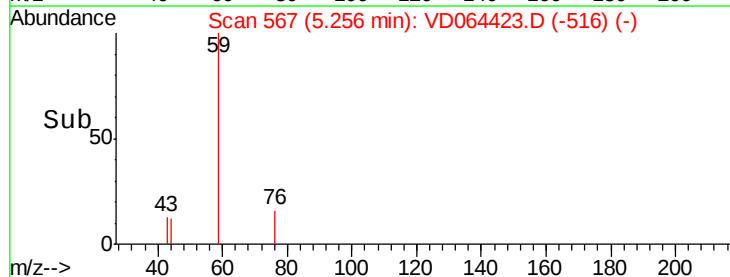
1500

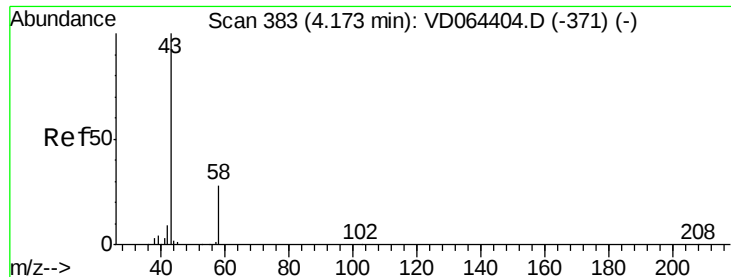
1000

500

0

Time-->





#16

Acetone

Concen: 36.993 ug/l

RT: 4.17 min Scan# 383

Delta R.T. -0.00 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

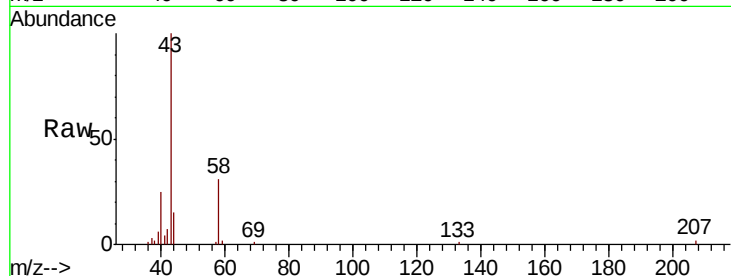
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 42011

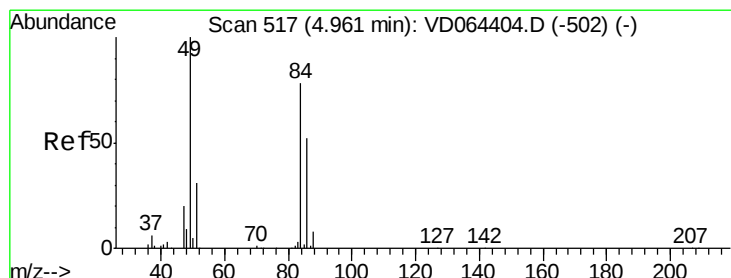
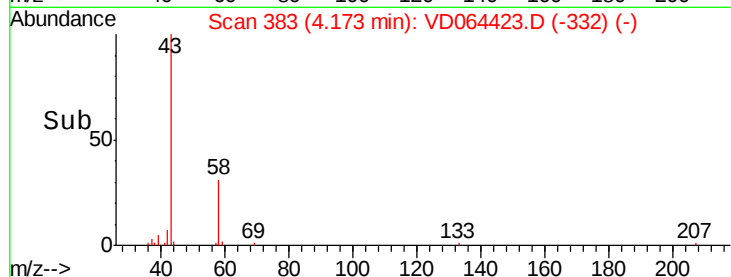
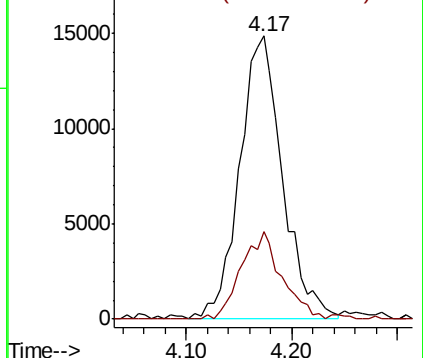
Ion Ratio Lower Upper

43 100

58 30.8 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

Tgt Ion: 84 Resp: 13785

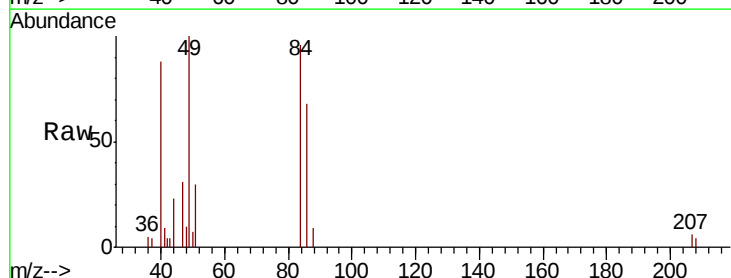
Ion Ratio Lower Upper

84 100

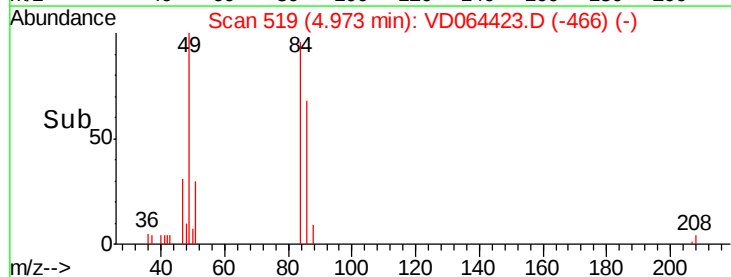
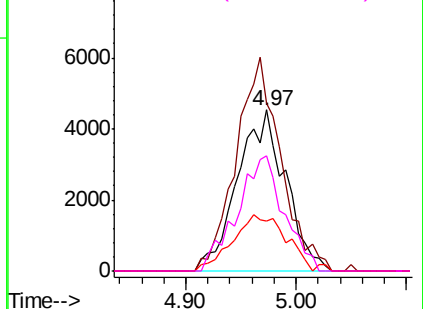
49 104.1 102.6 153.8

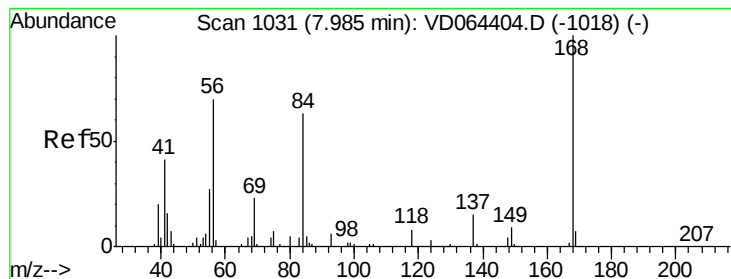
51 31.2 32.0 48.0#

86 71.3 53.4 80.0



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





#31

Cyclohexane

Concen: Below Cal

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_D

ClientSampled :

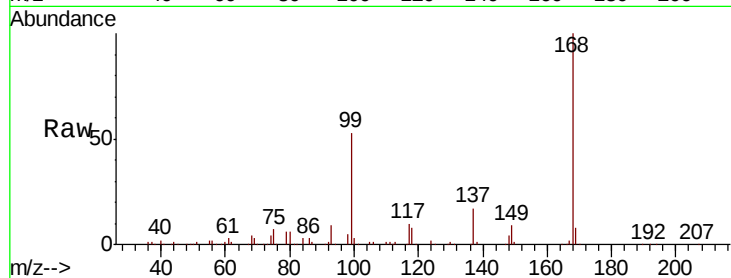
Tot Ion: 56 Resp: 12254

Ion Ratio Lower Upper

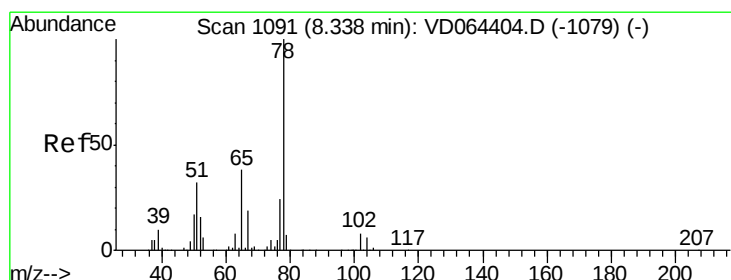
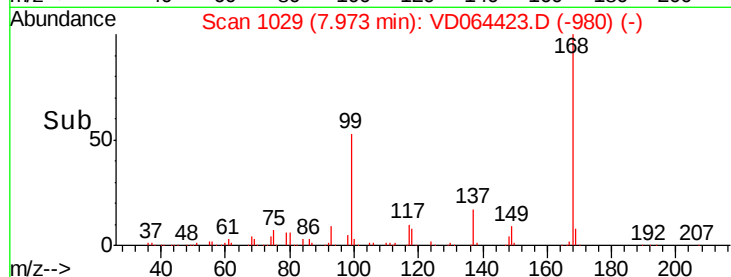
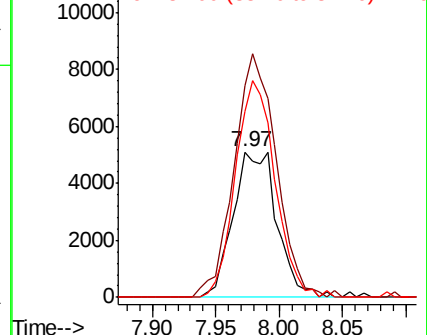
56 100

69 145.0 26.2 39.4#

84 128.2 70.3 105.5#



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 53.578 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064423.D

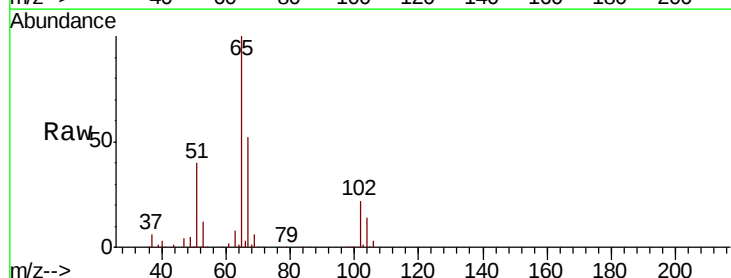
Acq: 04 Dec 2019 18:14

Tgt Ion: 65 Resp: 301097

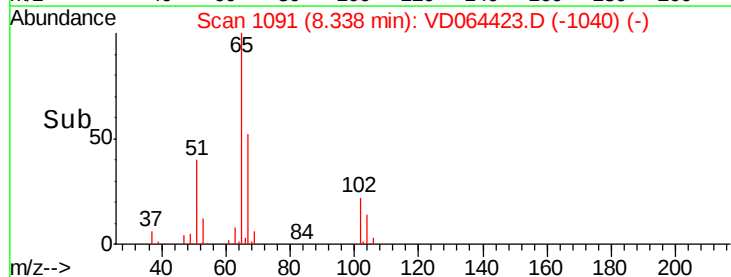
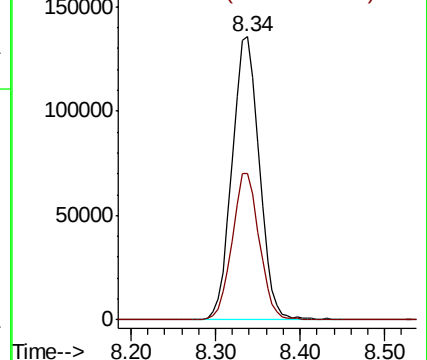
Ion Ratio Lower Upper

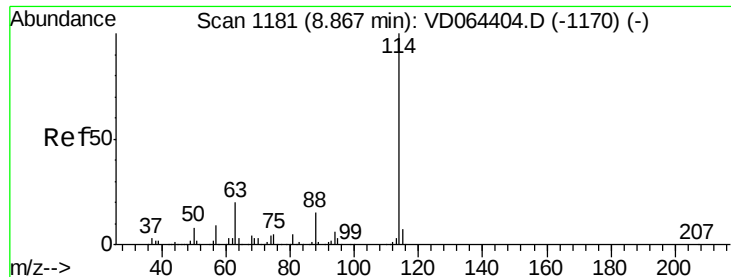
65 100

67 51.6 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

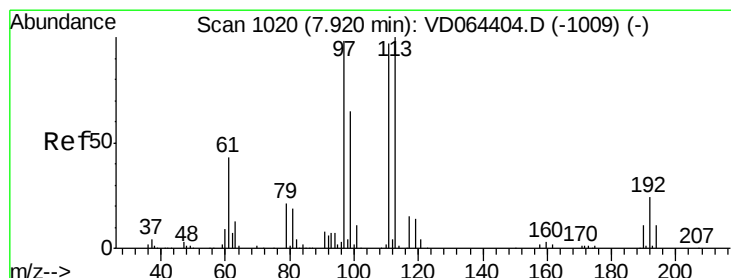
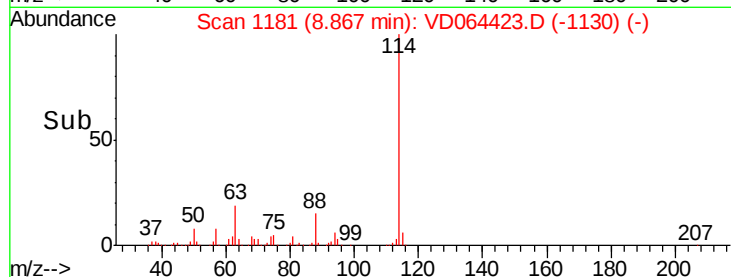
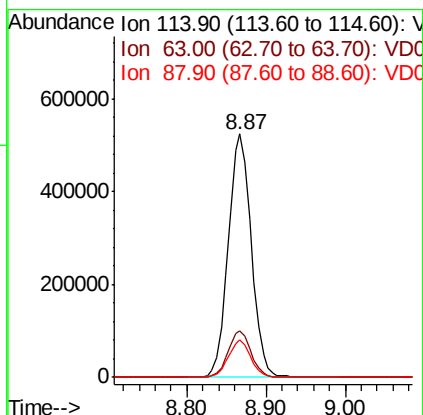
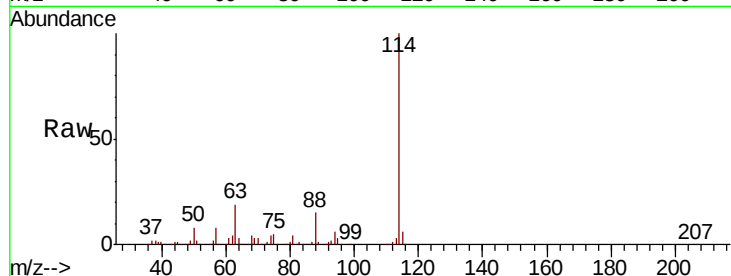




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064423.D
 Acq: 04 Dec 2019 18:14

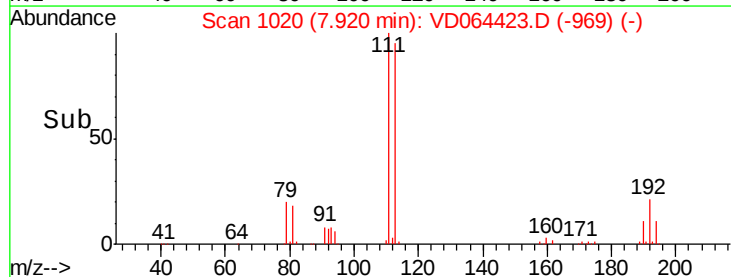
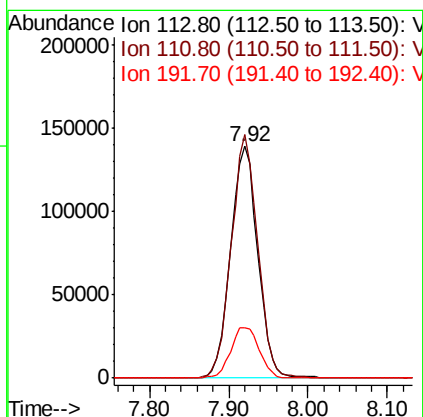
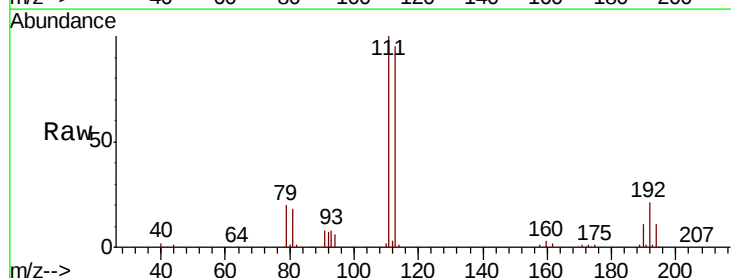
Instrument :
 MSVOA_D
 ClientSampleId :

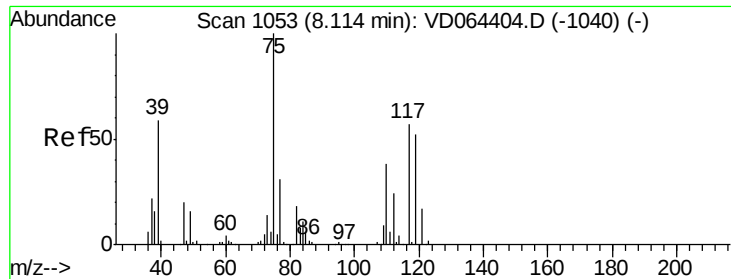
Tot Ion:114 Resp: 1049008
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.4 0.0 29.2



#35
 Dibromofluoromethane
 Concen: 49.908 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064423.D
 Acq: 04 Dec 2019 18:14

Tgt Ion:113 Resp: 329857
 Ion Ratio Lower Upper
 113 100
 111 102.0 79.4 119.2
 192 23.1 18.6 28.0

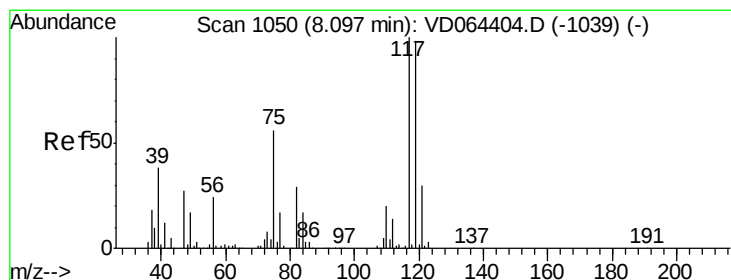
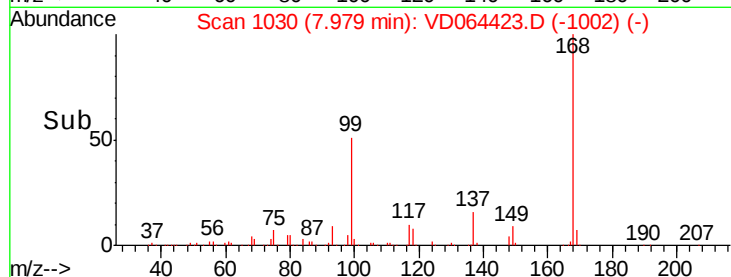
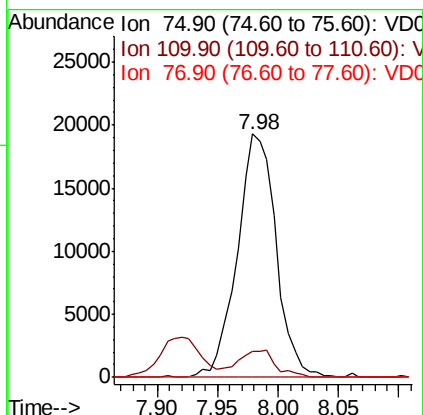
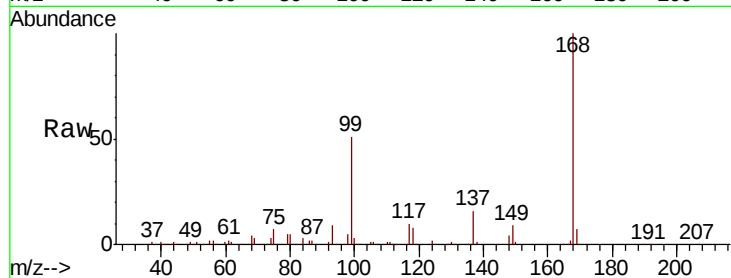




#36
 1,1-Dichloropropene
 Concen: 4.352 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064423.D
 Acq: 04 Dec 2019 18:14

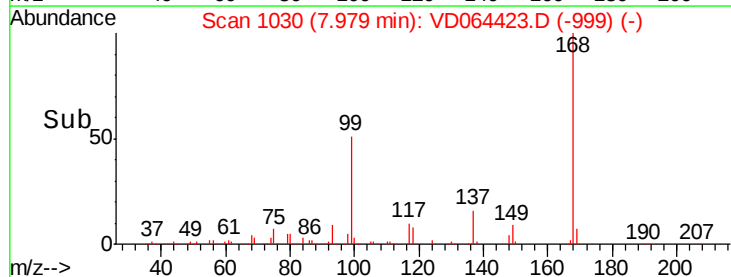
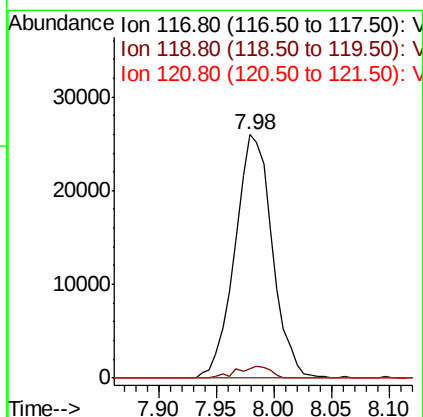
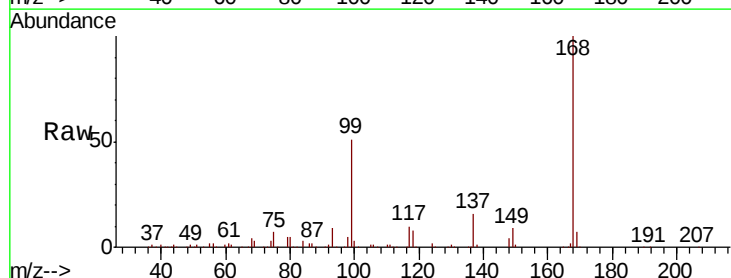
Instrument :
 MSVOA_D
 ClientSampled :

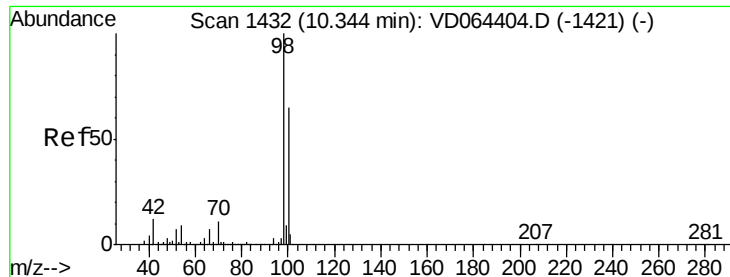
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.1	18.6	55.8#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.565 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064423.D
 Acq: 04 Dec 2019 18:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	78.8	118.2#
121	0.0	24.2	36.2#

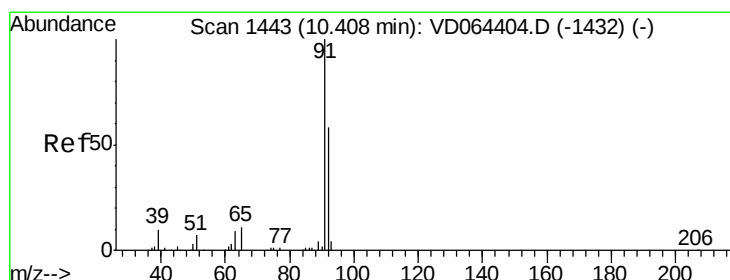
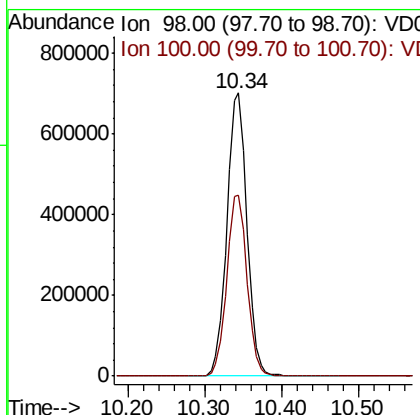
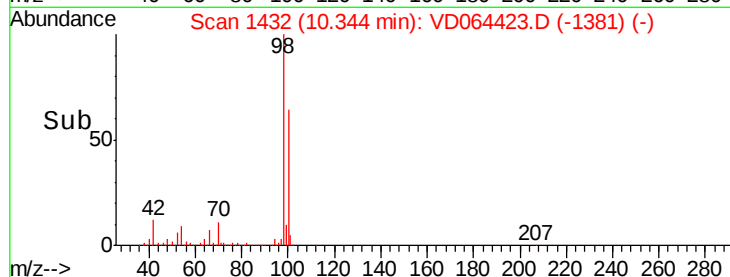
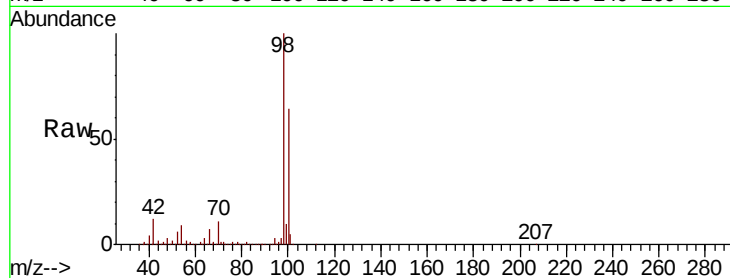




#50
Toluene-d8
Concen: 51.213 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

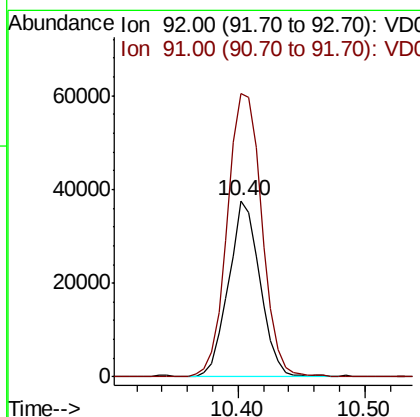
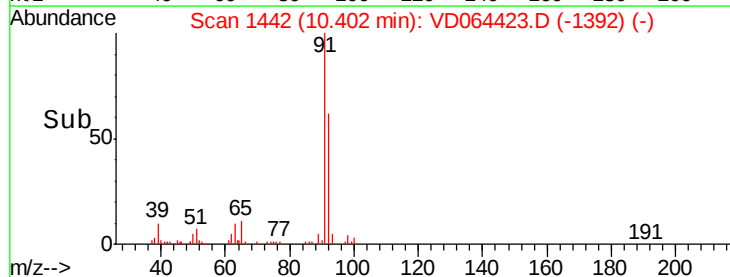
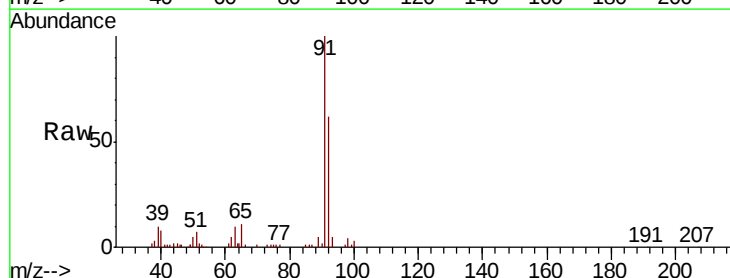
Instrument :
MSVOA_D
ClientSampled :

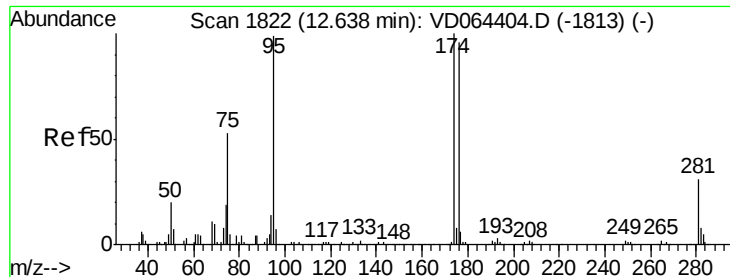
Tot Ion: 98 Resp: 1275012
Ion Ratio Lower Upper
98 100
100 64.9 52.6 79.0



#52
Toluene
Concen: 3.596 ug/l
RT: 10.40 min Scan# 1442
Delta R.T. -0.01 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 92 Resp: 64592
Ion Ratio Lower Upper
92 100
91 176.1 137.8 206.6

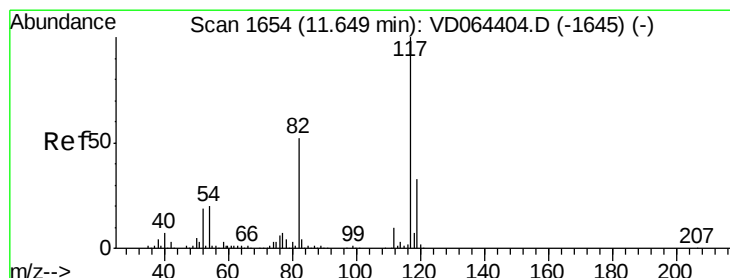
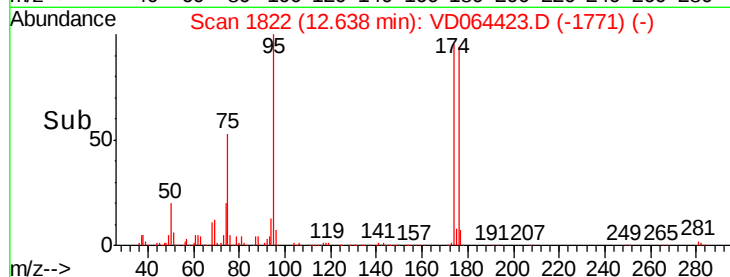
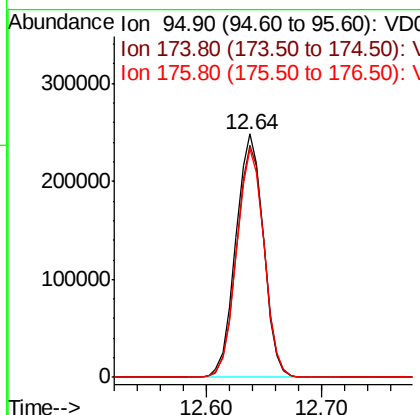
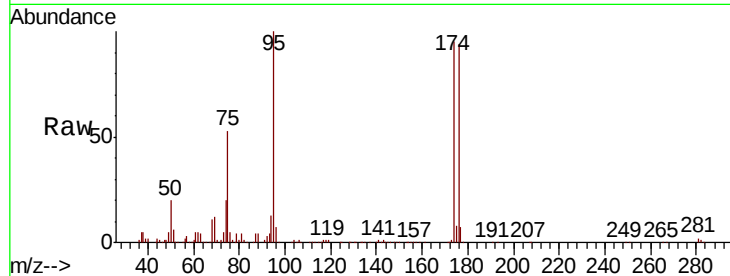




#62
4-Bromofluorobenzene
Concen: 51.223 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

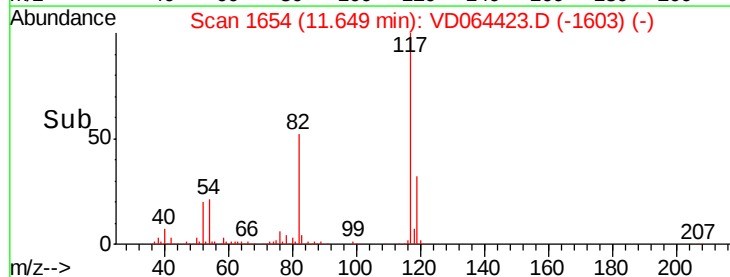
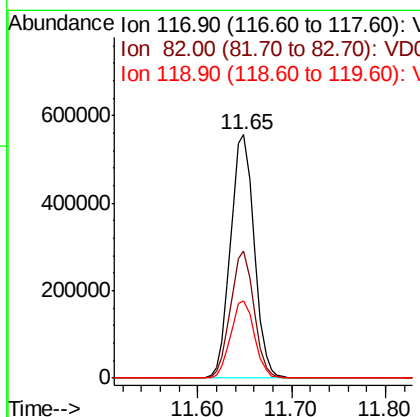
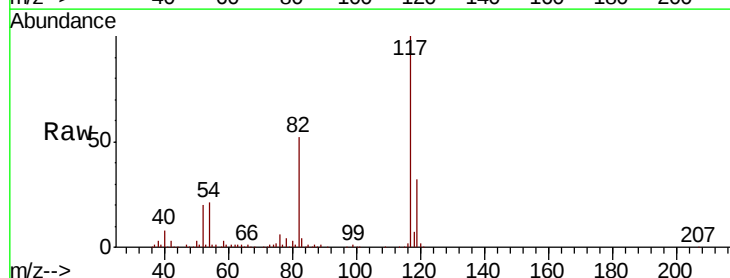
Instrument :
MSVOA_D
ClientSampleId :

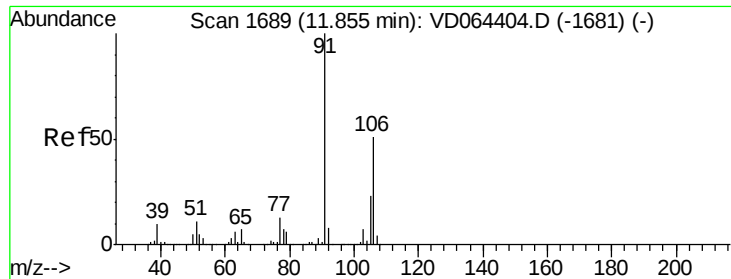
Tot Ion: 95 Resp: 409840
Ion Ratio Lower Upper
95 100
174 95.1 0.0 197.2
176 93.3 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 117 Resp: 976900
Ion Ratio Lower Upper
117 100
82 52.3 41.4 62.2
119 31.8 26.2 39.2

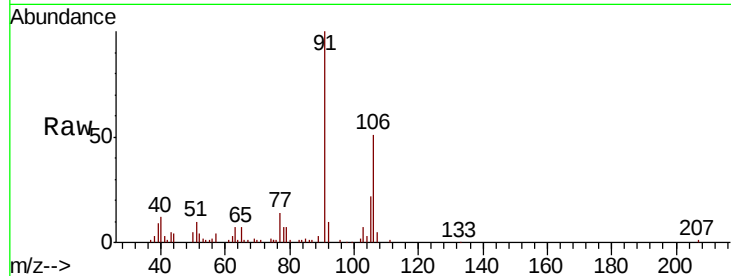




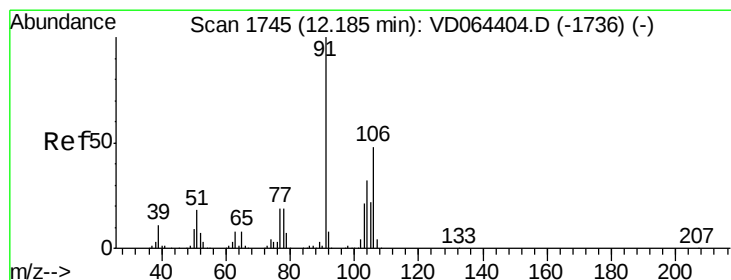
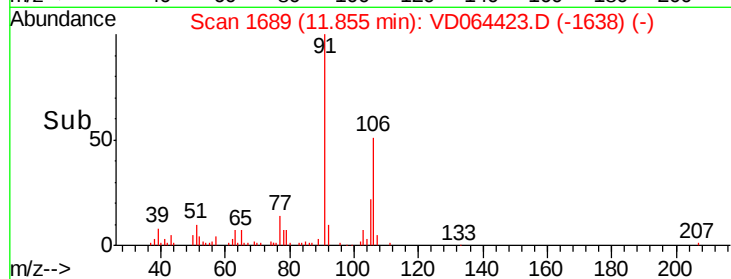
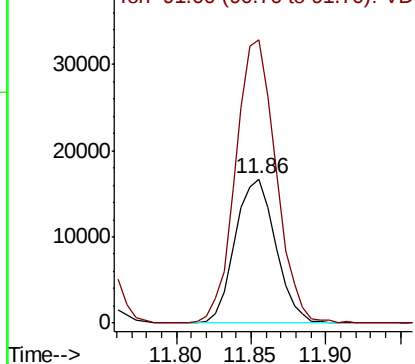
#68
m/p-Xylenes
Concen: 2.282 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:106 Resp: 31548
Ion Ratio Lower Upper
106 100
91 196.2 157.4 236.2

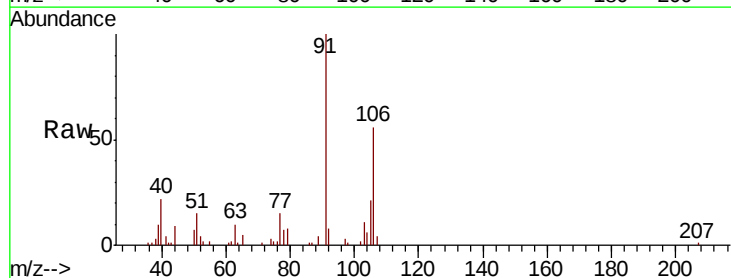


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

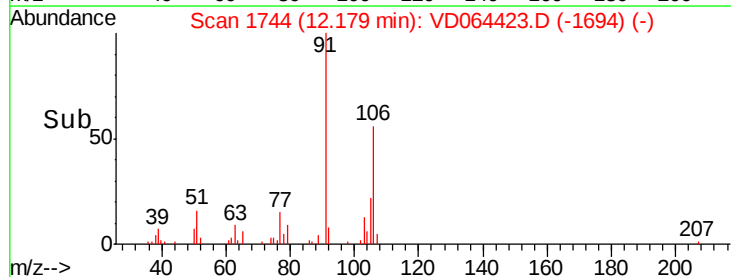
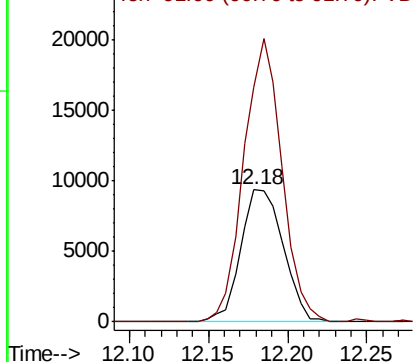


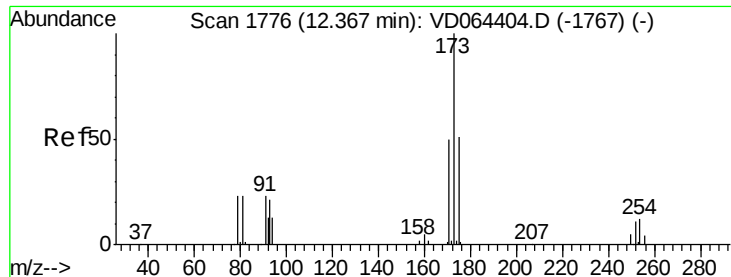
#69
o-Xylene
Concen: 1.369 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.01 min
Lab File: VD064423.D
Acq: 04 Dec 2019 18:14

Tgt Ion:106 Resp: 17481
Ion Ratio Lower Upper
106 100
91 192.3 103.8 311.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V





#71

Bromoform

Concen: 1.015 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_D

ClientSampled :

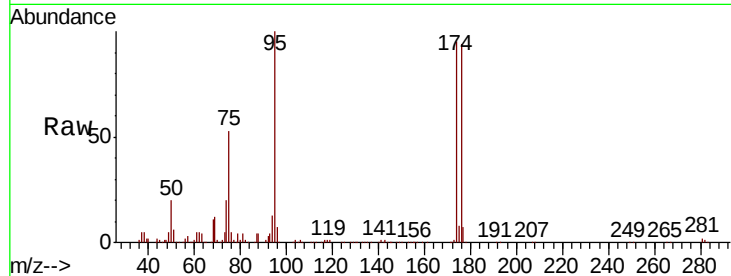
Tot Ion:173 Resp: 4581

Ion Ratio Lower Upper

173 100

175 528.1 25.3 75.8#

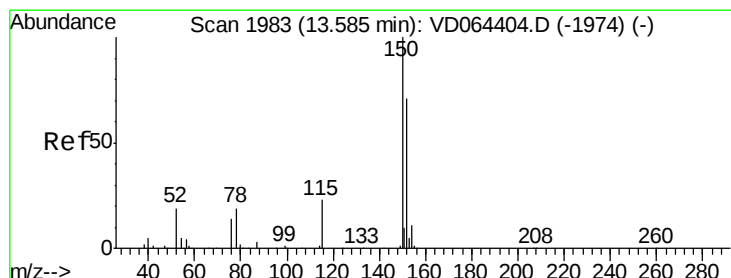
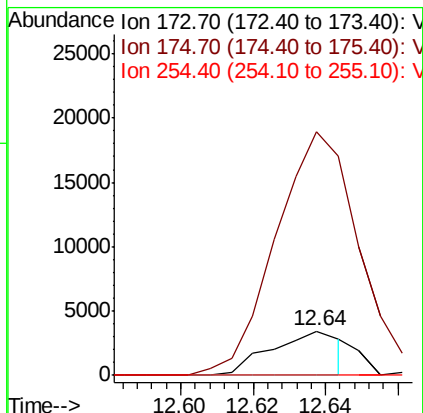
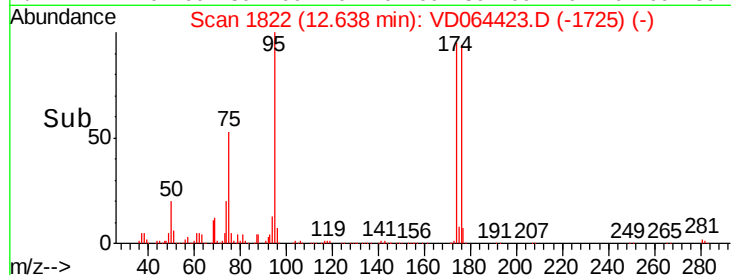
254 0.0 0.0 0.0



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: VD064423.D

Acq: 04 Dec 2019 18:14

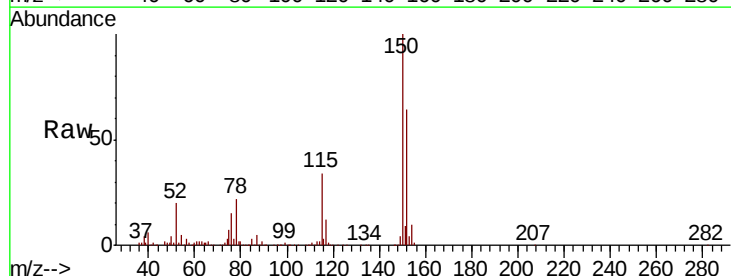
Tgt Ion:152 Resp: 461016

Ion Ratio Lower Upper

152 100

115 54.7 26.7 80.1

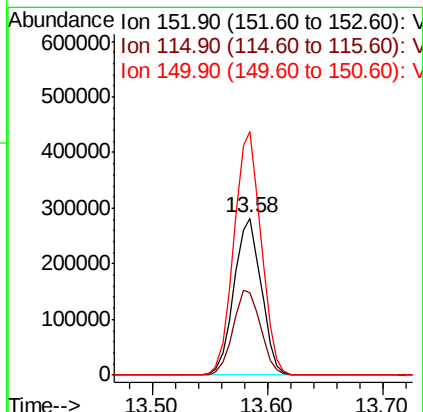
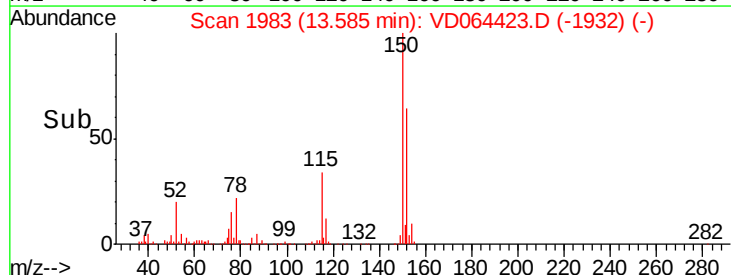
150 154.5 0.0 347.2

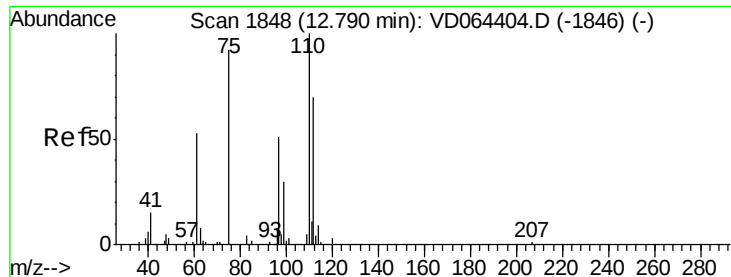


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 56.622 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_D

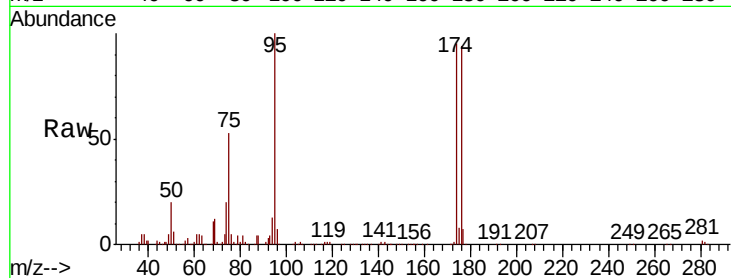
ClientSampled :

Tot Ion: 75 Resp: 214667

Ion Ratio Lower Upper

75 100

77 1.3 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

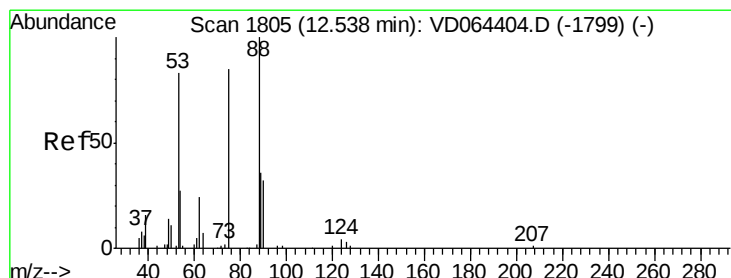
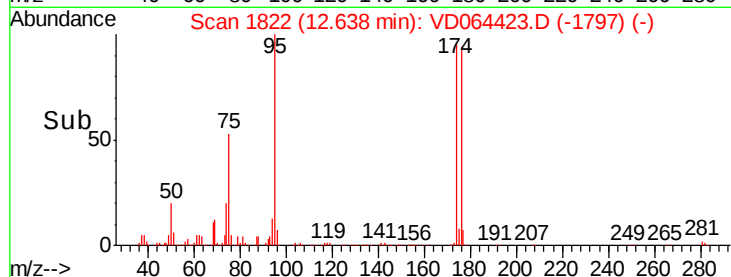
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 123.465 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

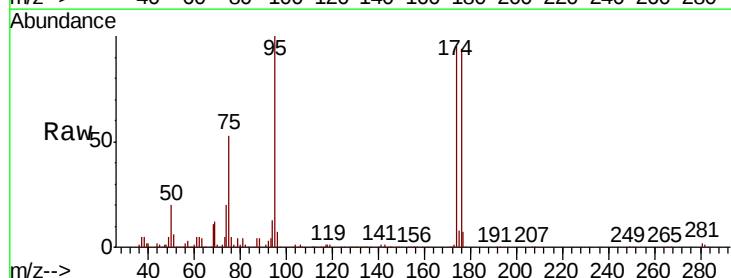
Tgt Ion: 75 Resp: 214667

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

89 0.0 38.5 57.7#



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

12.64

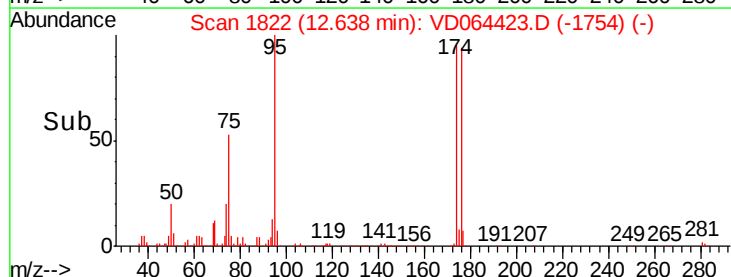
150000

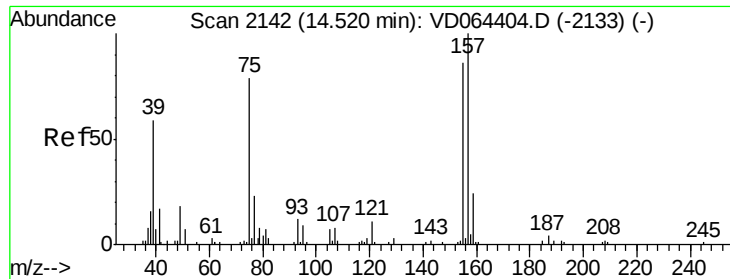
100000

50000

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.68 min Scan# 2170

Delta R.T. 0.17 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

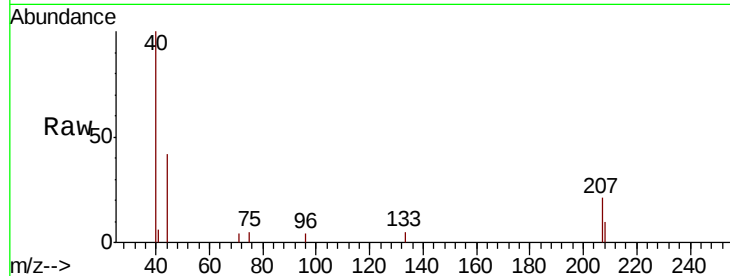
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 63.2 189.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

14.68

14.68

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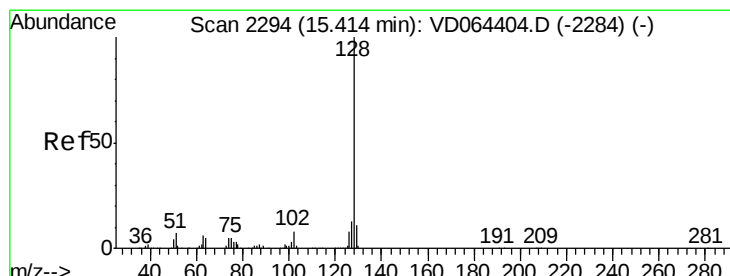
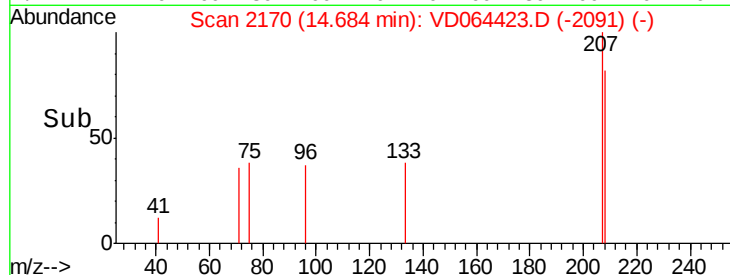
14.70

14.70

14.70

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14.70



#95

Naphthalene

Concen: 1.094 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD064423.D

Acq: 04 Dec 2019 18:14

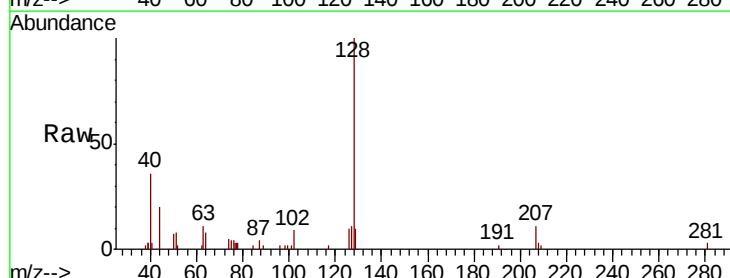
Tgt Ion: 128 Resp: 18567

Ion Ratio Lower Upper

128 100

127 15.9 10.5 15.7#

129 11.7 8.8 13.2



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

15.41

15.41

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