

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120419\
 Data File : VD064416.D
 Acq On : 04 Dec 2019 14:52
 Operator : VA/SY
 Sample : K6119-03RE
 Misc : 4.69G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 05 03:49:29 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

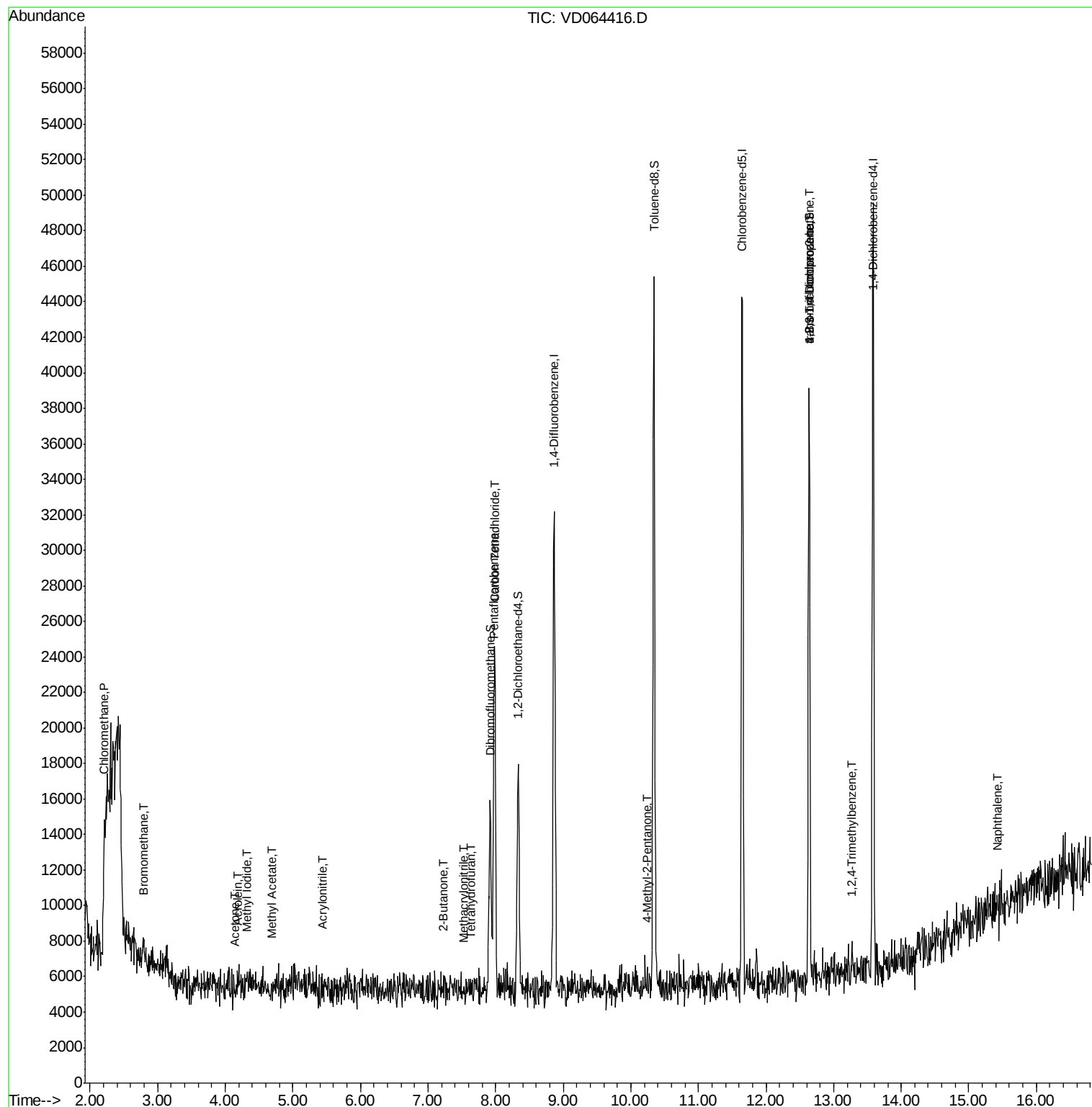
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	13876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	23632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	22467	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	11772	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	9569	76.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	152.38%	
35) Dibromofluoromethane	7.92	113	7196	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
50) Toluene-d8	10.34	98	27762	49.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.64	95	10217	56.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.36%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.20	50	755	4.761	ug/l	93
5) Bromomethane	2.80	94	837	6.182	ug/l #	29
10) Methyl Iodide	4.31	142	618	4.484	ug/l #	80
13) Acrolein	4.17	56	55	5.044	ug/l #	50
15) Acrylonitrile	5.43	53	55	1.988	ug/l #	16
16) Acetone	4.15	43	64	2.522	ug/l #	47
18) Methyl Acetate	4.68	43	118	1.594	ug/l #	51
20) Methylene Chloride	4.95	84	224	Below Cal	#	5
25) 2-Butanone	7.23	43	200	5.572	ug/l #	49
29) Tetrahydrofuran	7.64	42	118	5.167	ug/l #	33
31) Cyclohexane	7.98	56	420	Below Cal	#	42
38) Carbon Tetrachloride	7.98	117	1545	6.549	ug/l #	11
41) Methacrylonitrile	7.53	41	255	4.688	ug/l #	51
51) 4-Methyl-2-Pentanone	10.24	43	145	1.571	ug/l #	37
76) 1,2,3-Trichloropropane	12.64	75	5647	58.331	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	5647	127.193	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.28	105	875	1.258	ug/l	87
92) 1,2-Dibromo-3-Chloropropan	14.41	75	68	Below Cal	#	1
95) Naphthalene	15.42	128	930	2.146	ug/l #	69

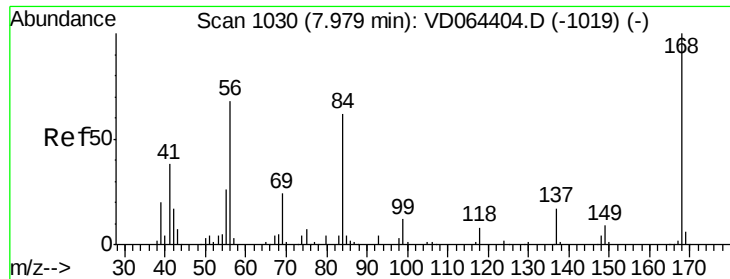
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 29 07:18:03 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

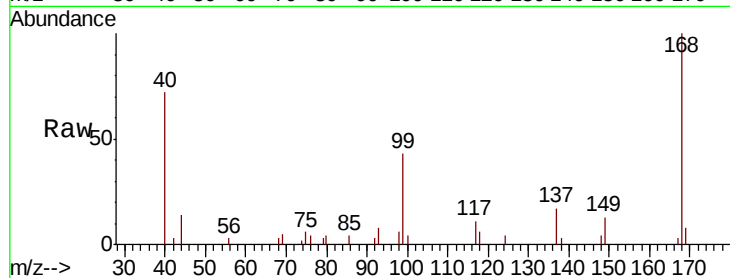
ClientSampleId :

Tot Ion:168 Resp: 13876

Ion Ratio Lower Upper

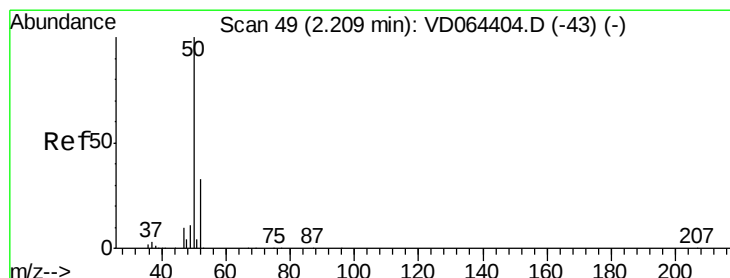
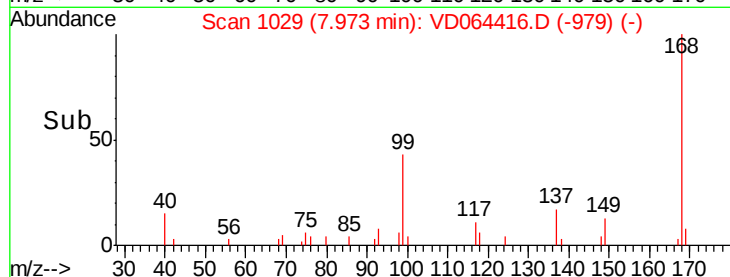
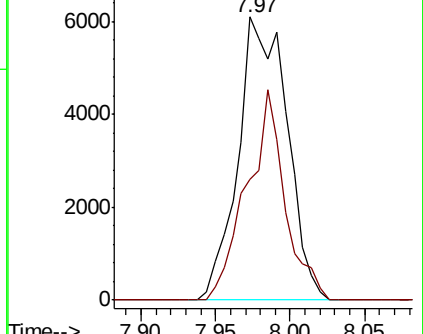
168 100

99 42.5 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 4.761 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064416.D

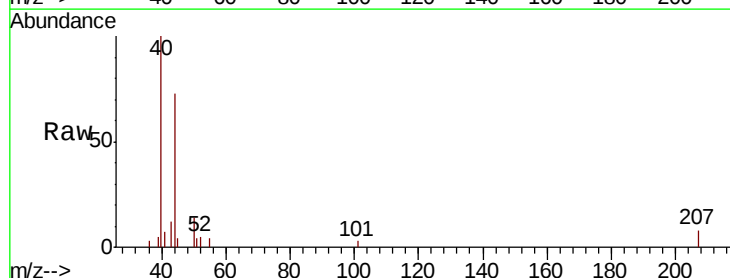
Acq: 04 Dec 2019 14:52

Tgt Ion: 50 Resp: 755

Ion Ratio Lower Upper

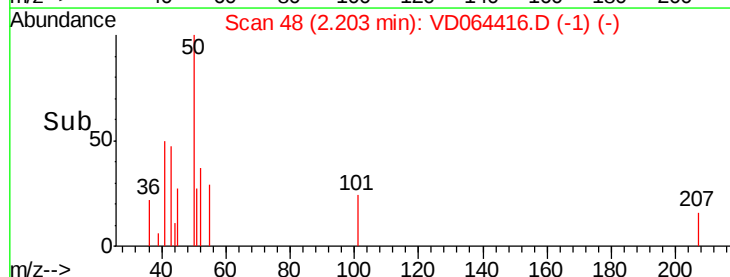
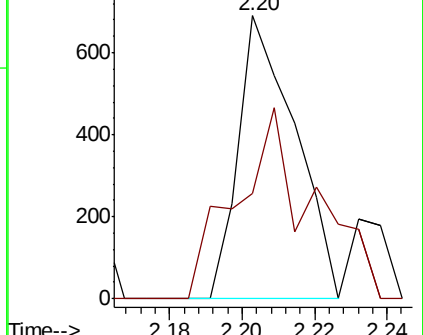
50 100

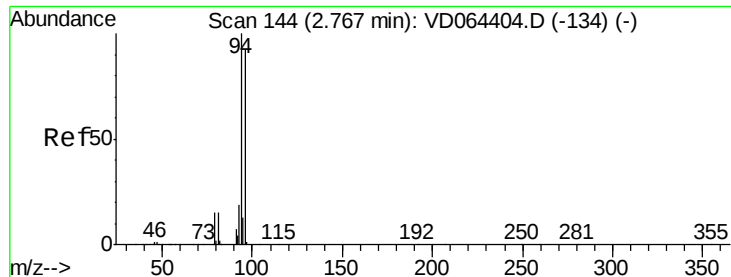
52 37.2 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 6.182 ug/l

RT: 2.80 min Scan# 149

Delta R.T. 0.03 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

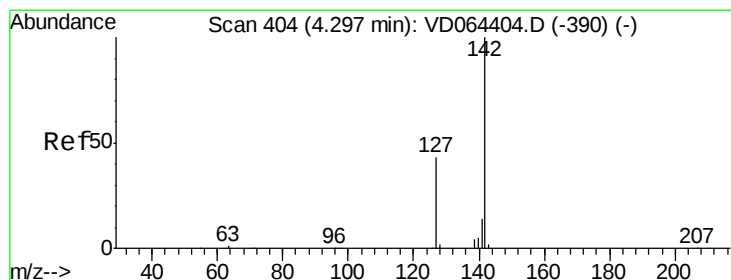
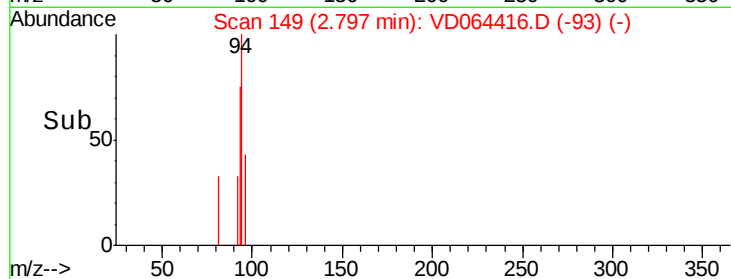
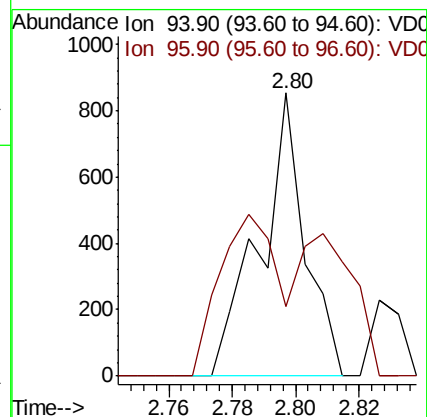
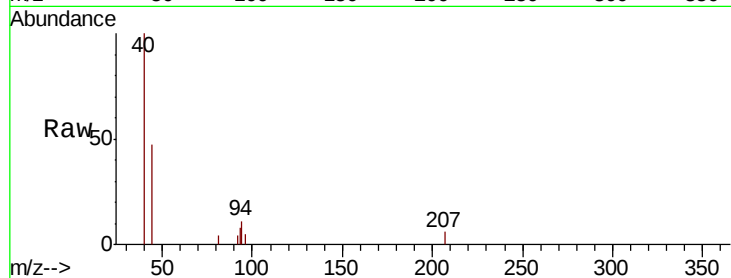
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 94 Resp: 837

Ion Ratio Lower Upper

94 100

96 24.7 73.6 110.4#



#10

Methyl Iodide

Concen: 4.484 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.02 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

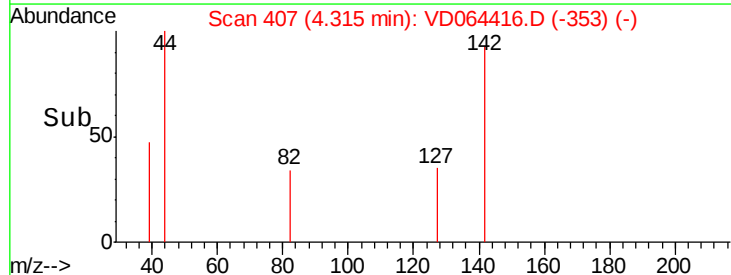
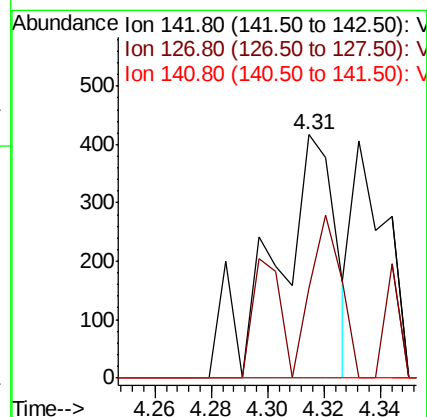
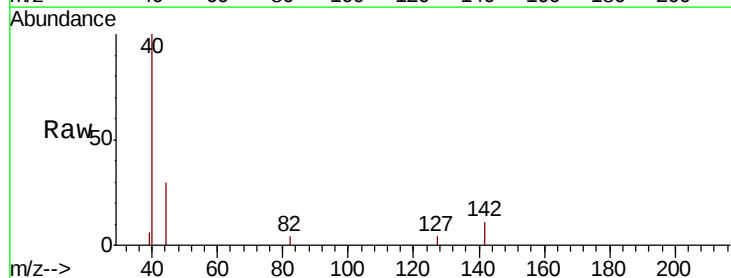
Tgt Ion: 142 Resp: 618

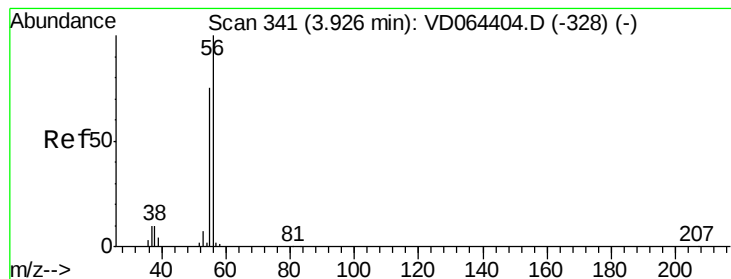
Ion Ratio Lower Upper

142 100

127 34.3 35.3 52.9#

141 0.0 11.6 17.4#





#13

Acrolein

Concen: 5.044 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.25 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

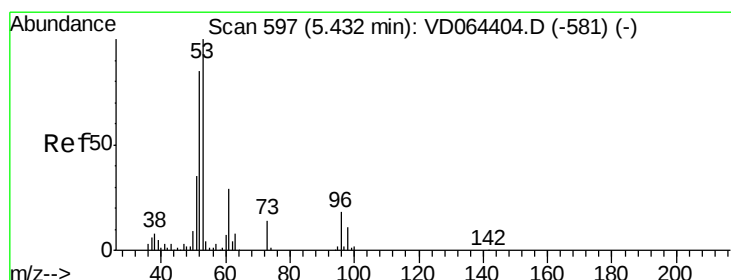
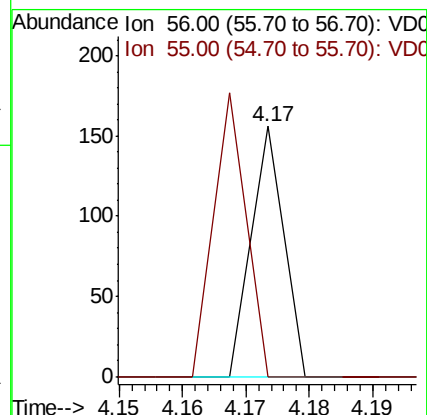
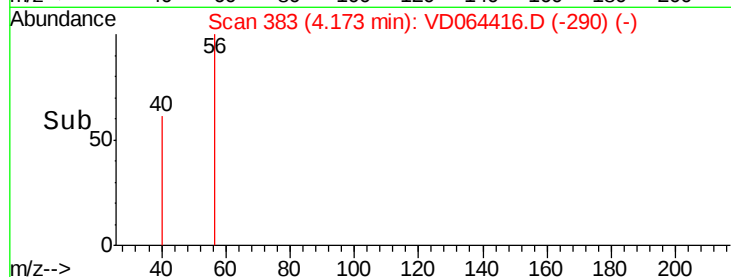
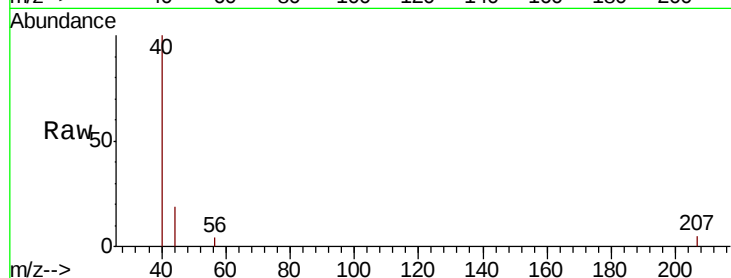
ClientSampleId :

Tot Ion: 56 Resp: 55

Ion Ratio Lower Upper

56 100

55 112.7 56.9 85.3#



#15

Acrylonitrile

Concen: 1.988 ug/l

RT: 5.43 min Scan# 597

Delta R.T. 0.00 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

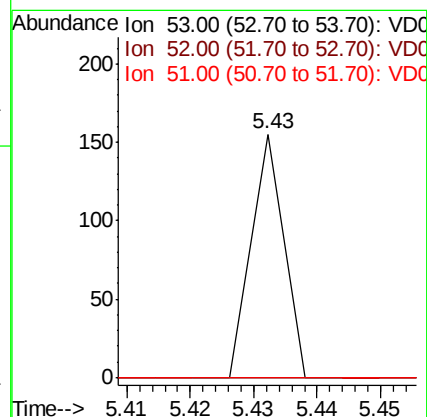
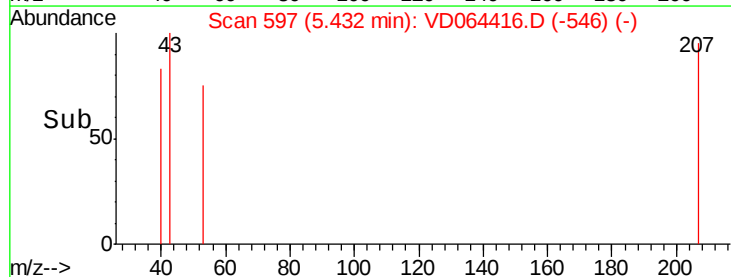
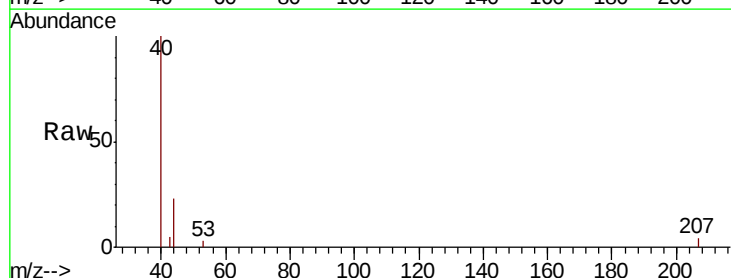
Tgt Ion: 53 Resp: 55

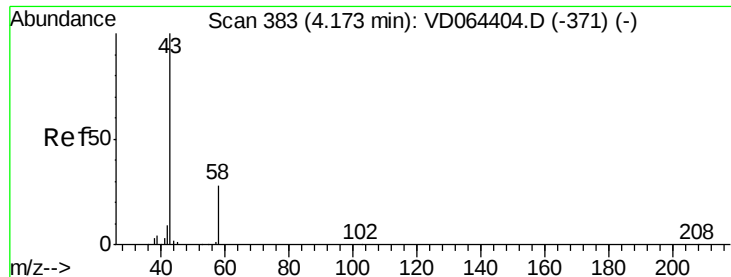
Ion Ratio Lower Upper

53 100

52 0.0 67.9 101.9#

51 0.0 30.6 45.8#





#16

Acetone

Concen: 2.522 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.02 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

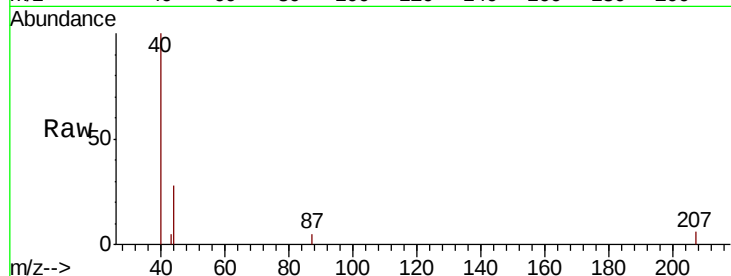
ClientSampleId :

Tot Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#

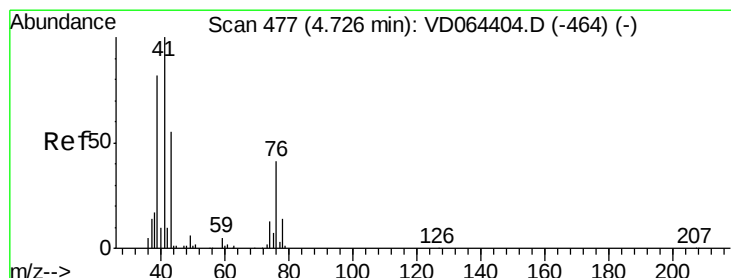
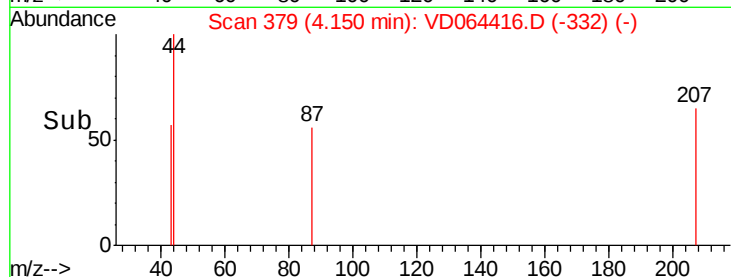


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.15

Time--> 4.13 4.14 4.15 4.16 4.17



#18

Methyl Acetate

Concen: 1.594 ug/l

RT: 4.68 min Scan# 469

Delta R.T. -0.05 min

Lab File: VD064416.D

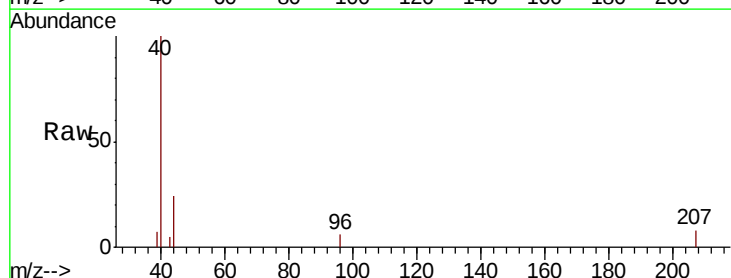
Acq: 04 Dec 2019 14:52

Tgt Ion: 43 Resp: 118

Ion Ratio Lower Upper

43 100

74 0.0 19.7 29.5#

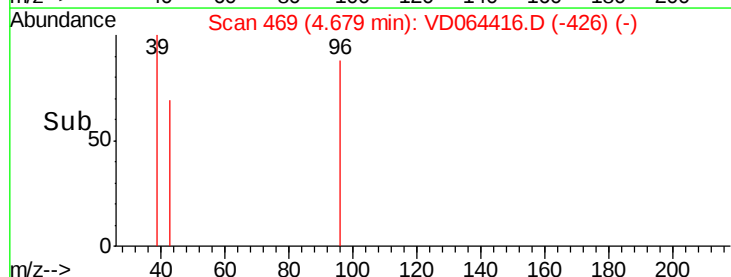


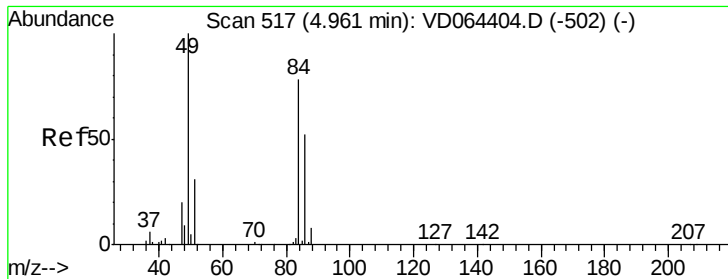
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.68

Time--> 4.64 4.66 4.68 4.70

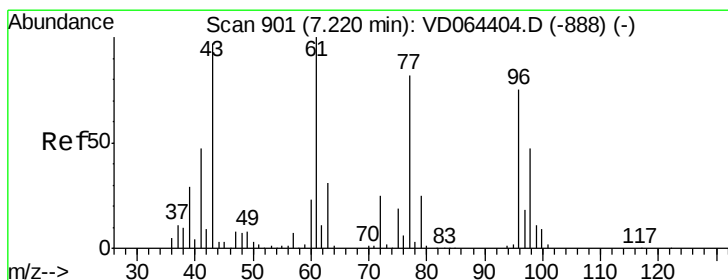
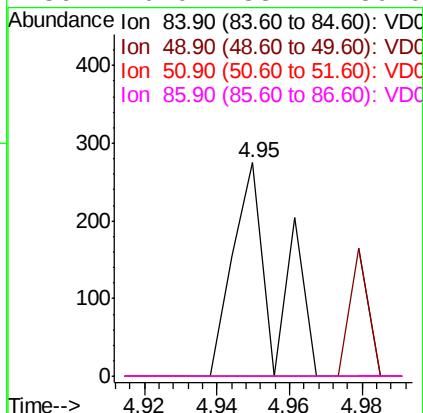
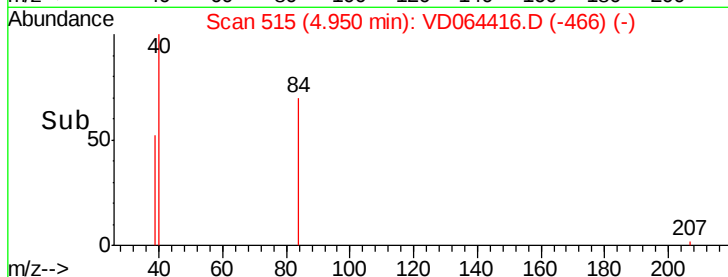
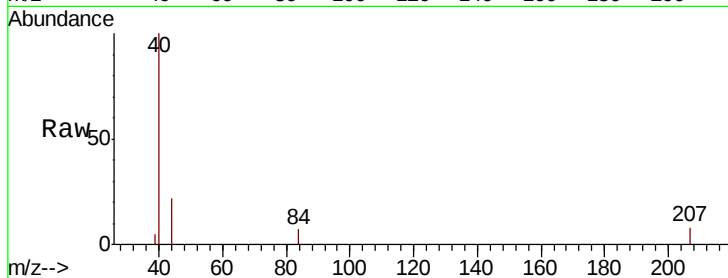




#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

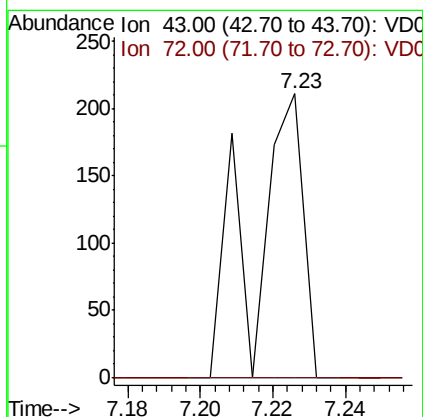
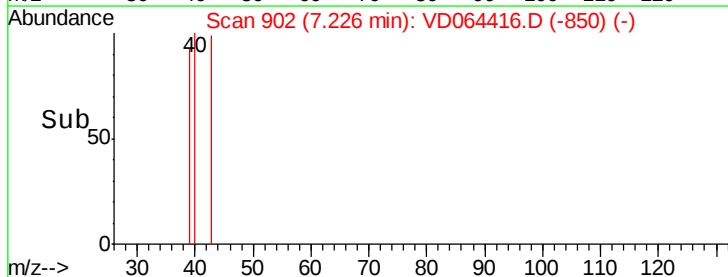
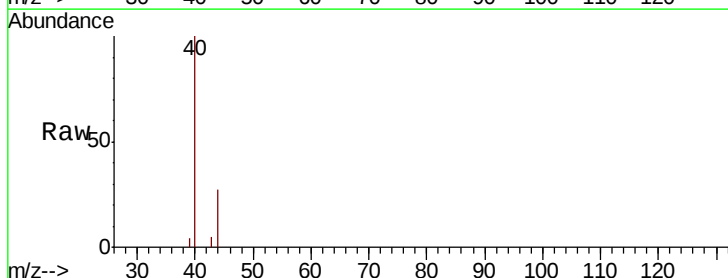
Instrument :
MSVOA_D
ClientSampled :

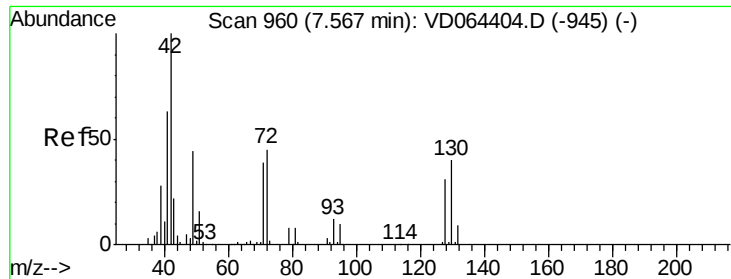
Tot Ion: 84 Resp: 224
Ion Ratio Lower Upper
84 100
49 0.0 102.6 153.8#
51 0.0 32.0 48.0#
86 0.0 53.4 80.0#



#25
2-Butanone
Concen: 5.572 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

Tgt Ion: 43 Resp: 200
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#

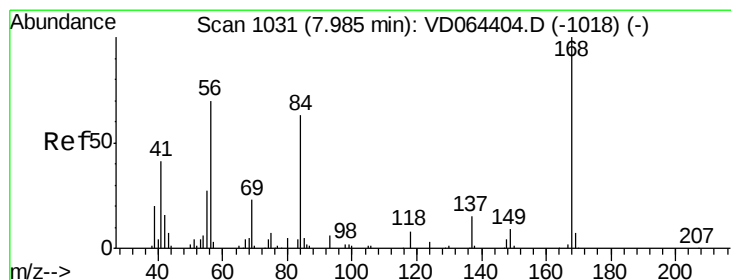
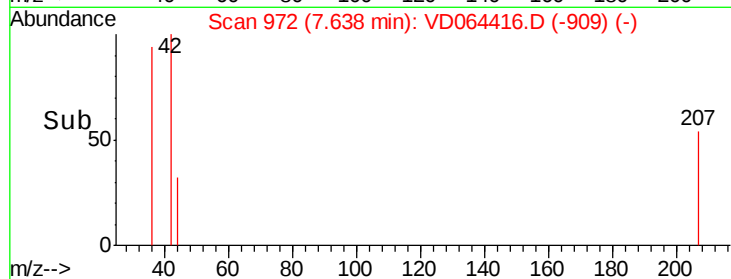
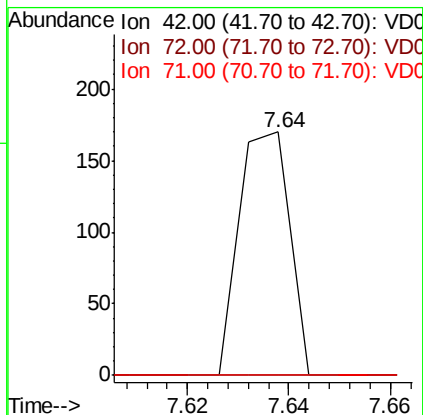
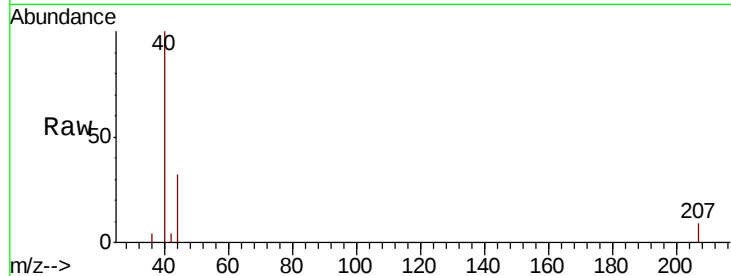




#29
Tetrahydrofuran
Concen: 5.167 ug/l
RT: 7.64 min Scan# 972
Delta R.T. 0.07 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

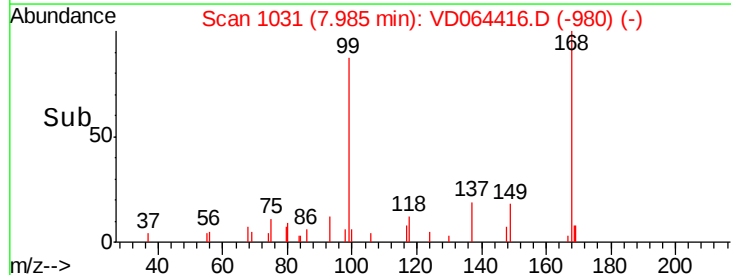
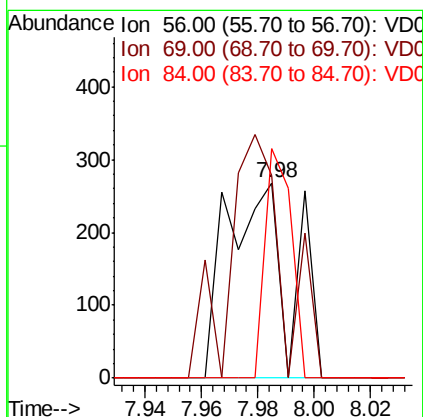
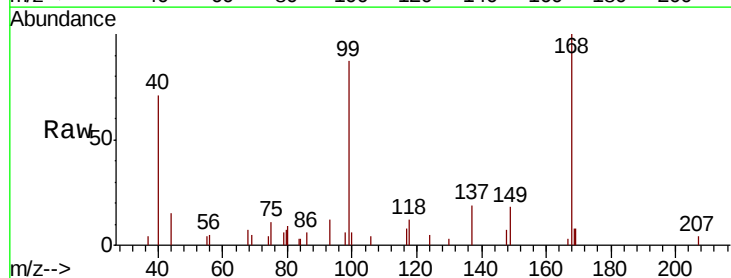
Instrument :
MSVOA_D
ClientSampleId :

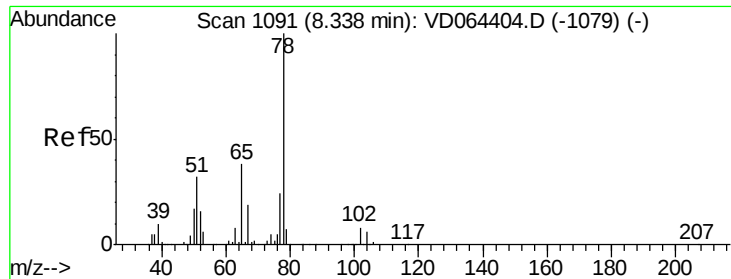
Tot Ion: 42 Resp: 118
Ion Ratio Lower Upper
42 100
72 0.0 35.8 53.8#
71 0.0 32.7 49.1#



#31
Cyclohexane
Concen: Below Cal
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

Tgt Ion: 56 Resp: 420
Ion Ratio Lower Upper
56 100
69 104.1 26.2 39.4#
84 117.9 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 76.187 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

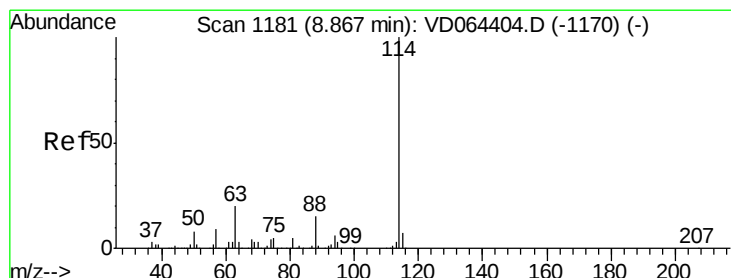
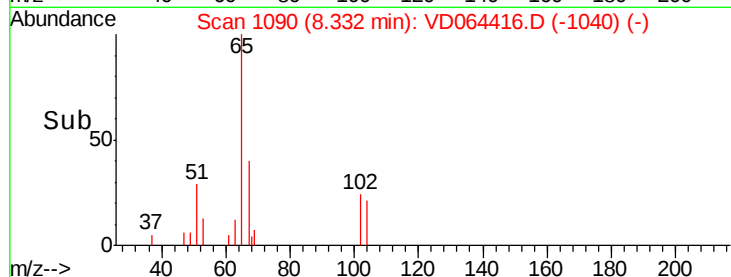
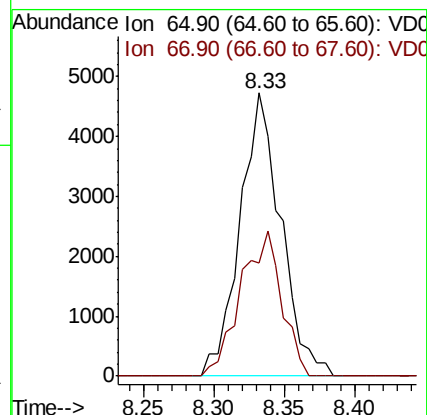
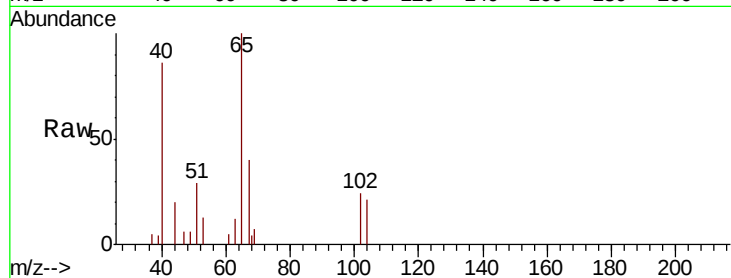
ClientSampled :

Tot Ion: 65 Resp: 9569

Ion Ratio Lower Upper

65 100

67 51.4 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

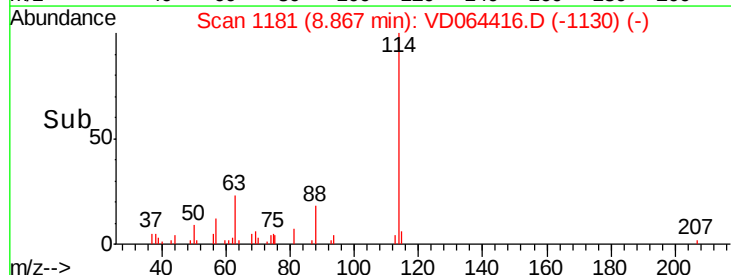
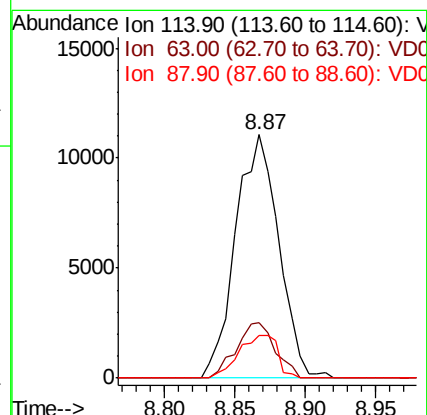
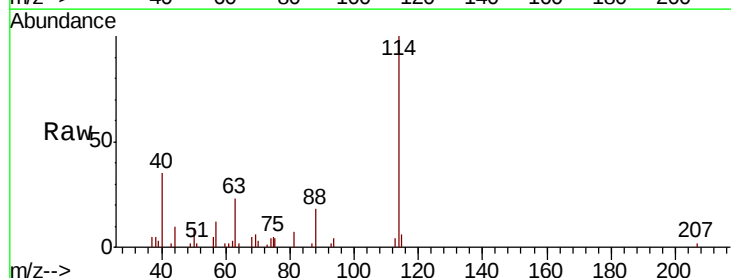
Tgt Ion: 114 Resp: 23632

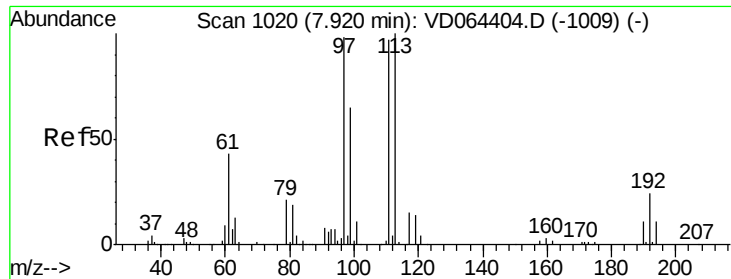
Ion Ratio Lower Upper

114 100

63 22.9 0.0 40.0

88 17.6 0.0 29.2

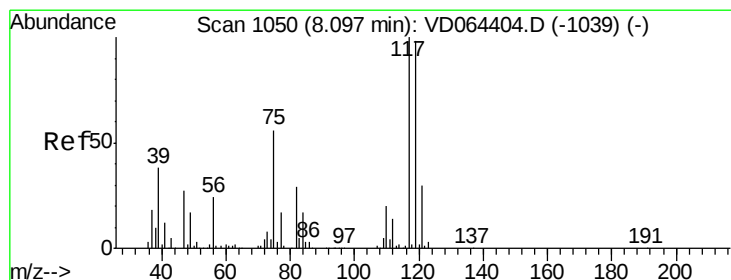
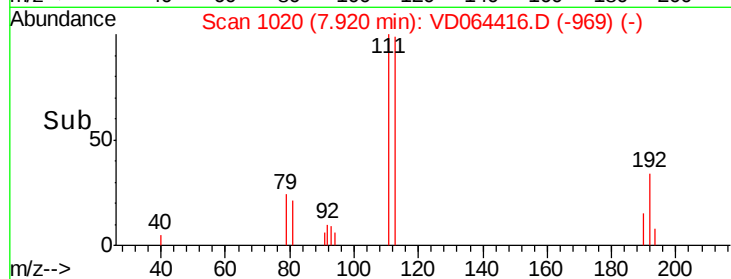
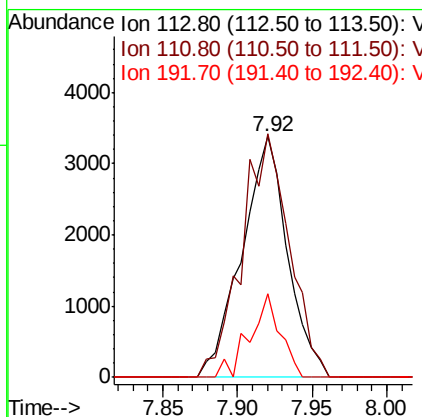
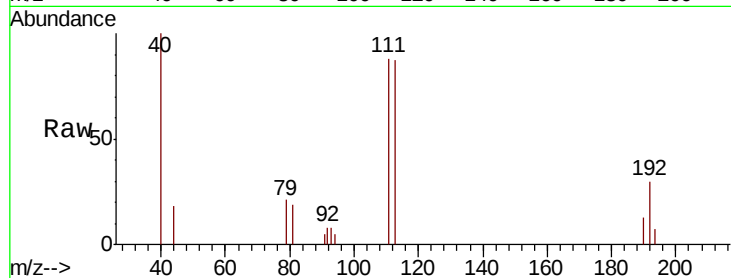




#35
 Dibromofluoromethane
 Concen: 48.330 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064416.D
 Acq: 04 Dec 2019 14:52

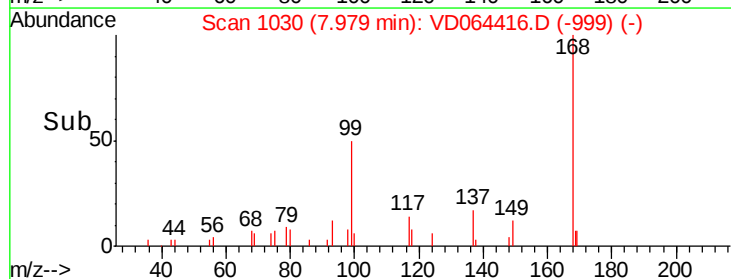
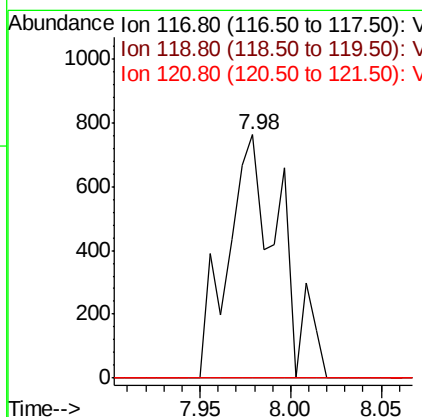
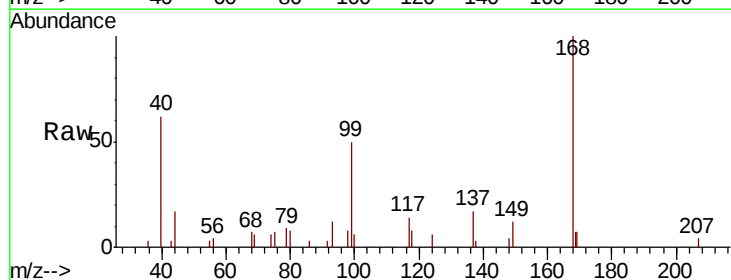
Instrument :
 MSVOA_D
 ClientSampleId :

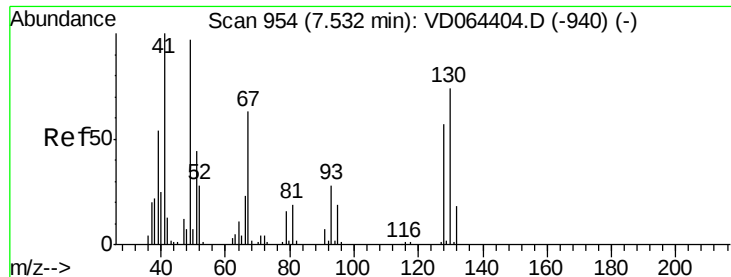
Tot Ion:113 Resp: 7196
 Ion Ratio Lower Upper
 113 100
 111 105.4 79.4 119.2
 192 22.9 18.6 28.0



#38
 Carbon Tetrachloride
 Concen: 6.549 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD064416.D
 Acq: 04 Dec 2019 14:52

Tgt Ion:117 Resp: 1545
 Ion Ratio Lower Upper
 117 100
 119 0.0 78.8 118.2#
 121 0.0 24.2 36.2#

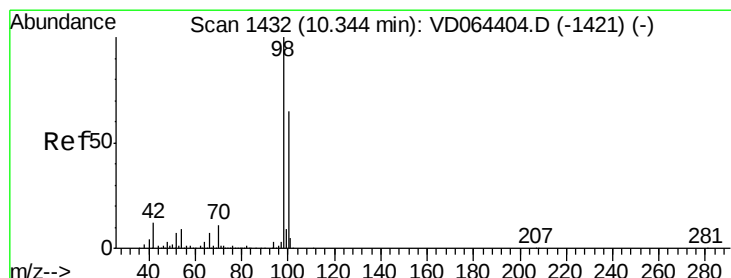
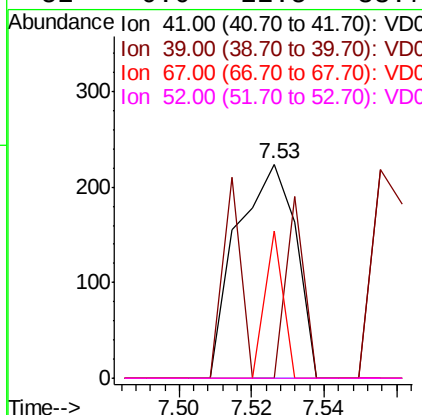
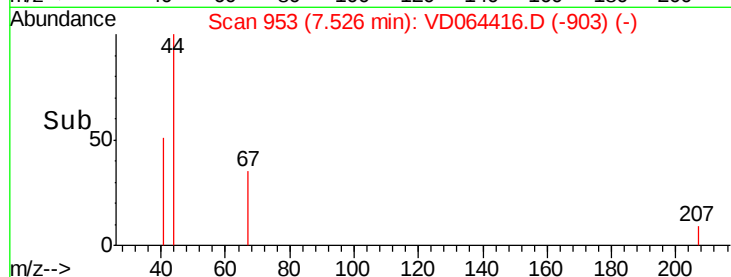
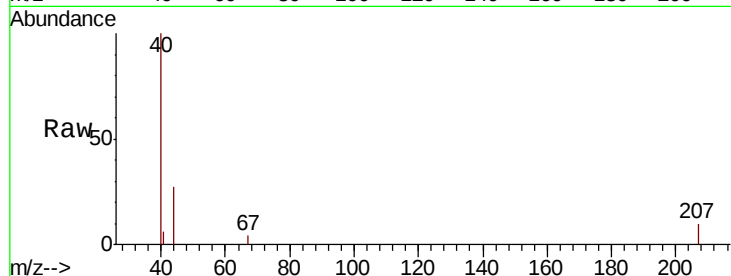




#41
Methacrylonitrile
Concen: 4.688 ug/l
RT: 7.53 min Scan# 953
Delta R.T. -0.01 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

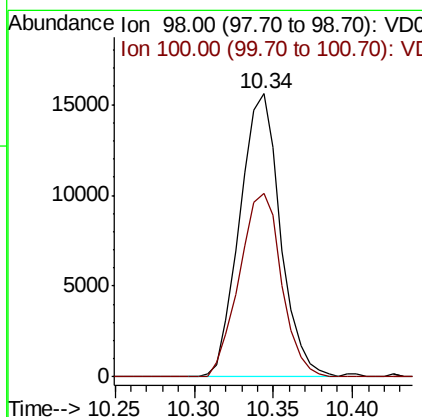
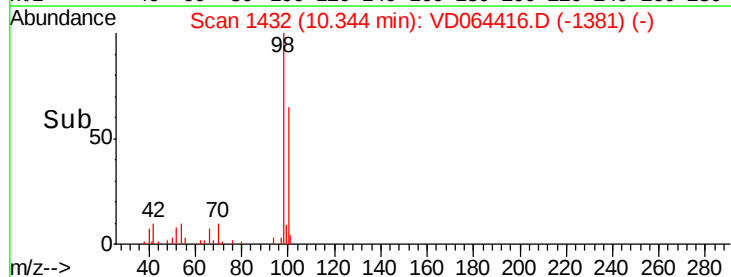
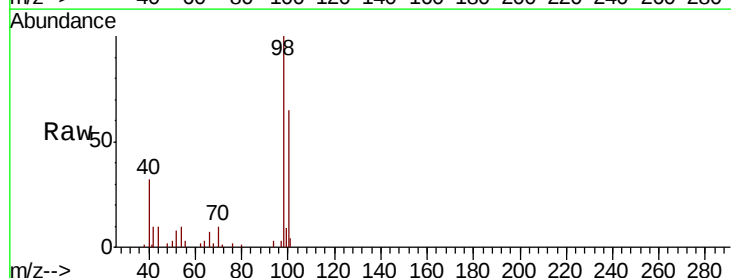
Instrument :
MSVOA_D
ClientSampleId :

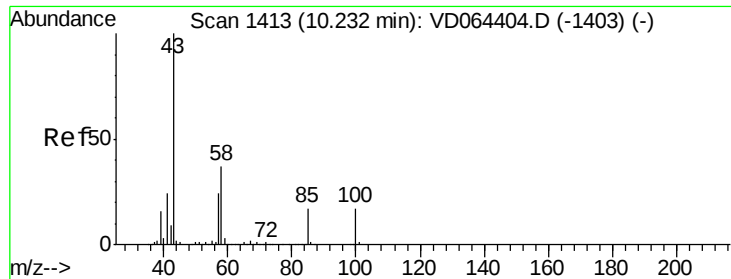
Tot Ion	Ratio	Lower	Upper
41	100		
39	26.3	44.6	67.0#
67	21.2	50.9	76.3#
52	0.0	22.5	33.7#



#50
Toluene-d8
Concen: 49.499 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.2	52.6	79.0





#51

4-Methyl-2-Pentanone

Concen: 1.571 ug/l

RT: 10.24 min Scan# 1415

Delta R.T. 0.01 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

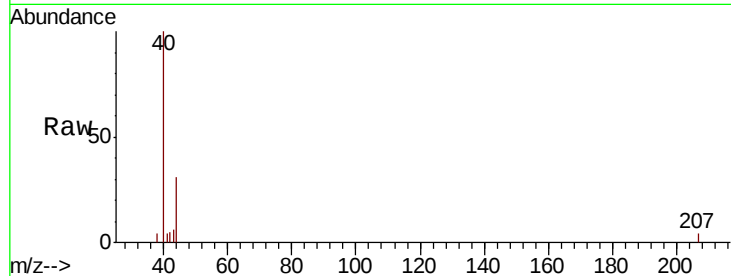
ClientSampled :

Tot Ion: 43 Resp: 145

Ion Ratio Lower Upper

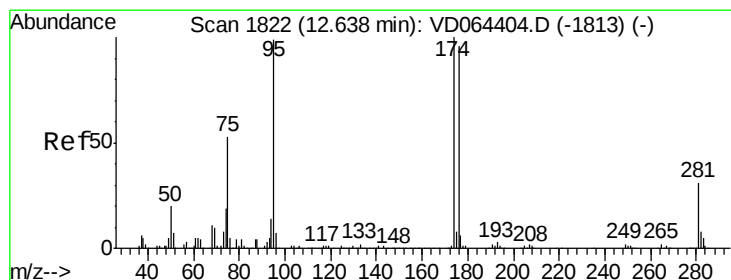
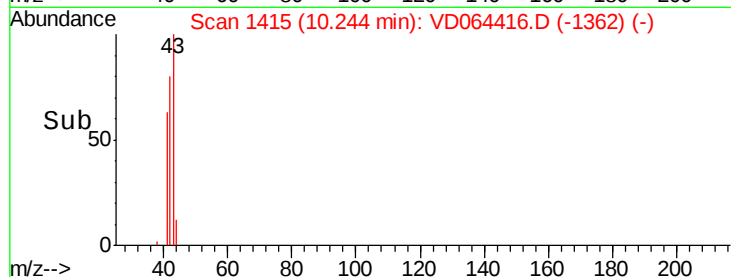
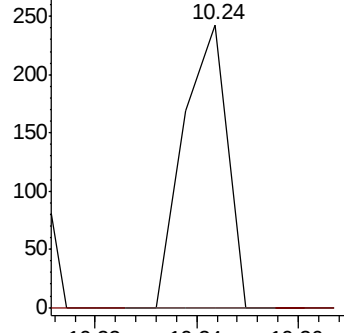
43 100

58 0.0 30.6 46.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 56.683 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

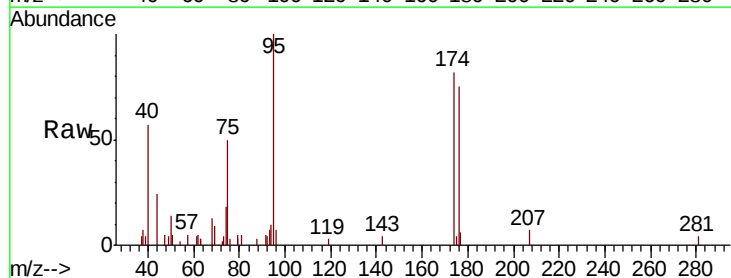
Tgt Ion: 95 Resp: 10217

Ion Ratio Lower Upper

95 100

174 93.2 0.0 197.2

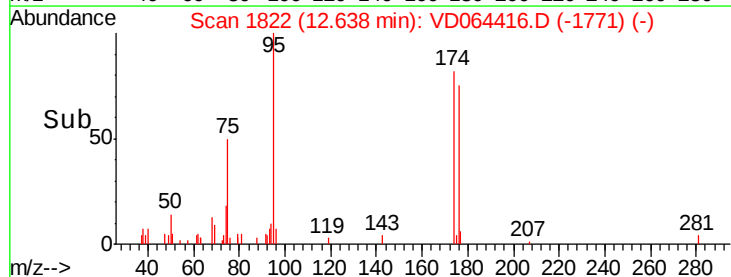
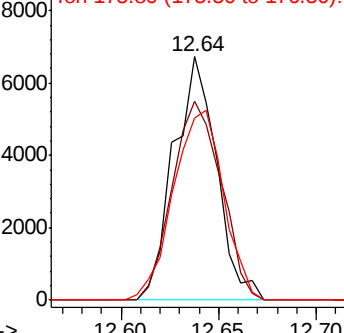
176 91.4 0.0 189.6

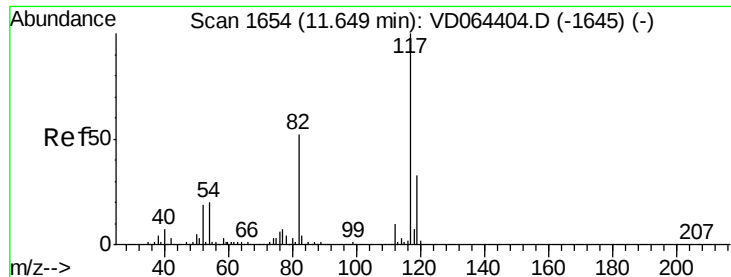


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

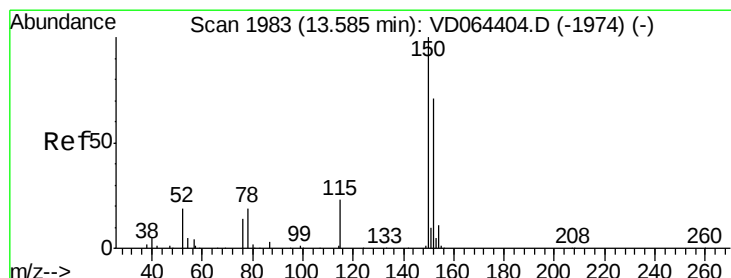
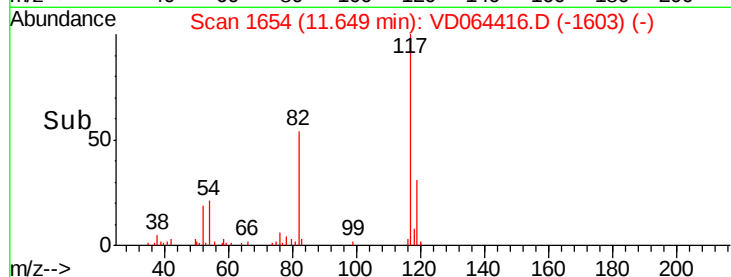
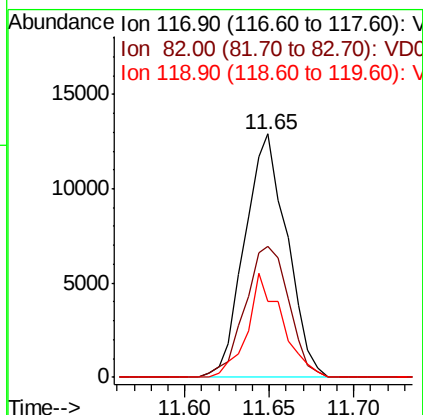
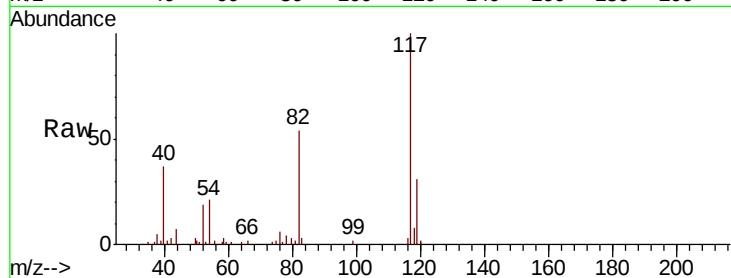




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

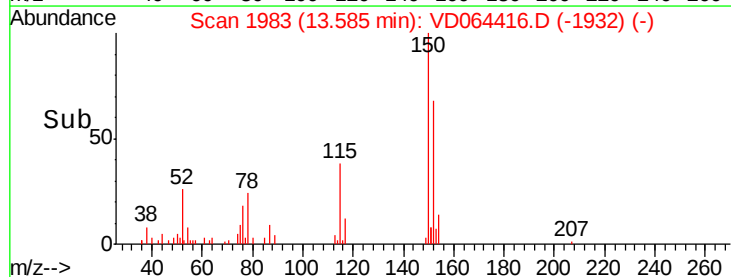
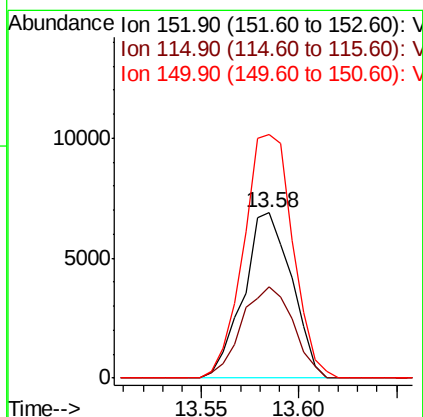
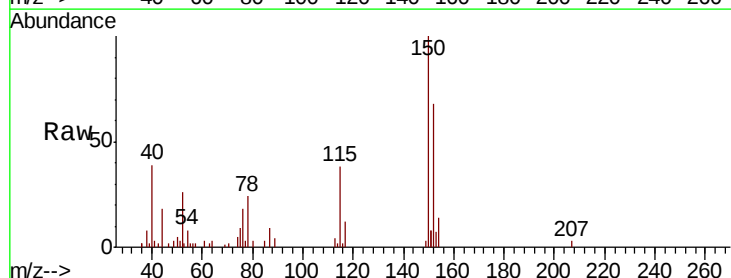
Instrument :
MSVOA_D
ClientSampleId :

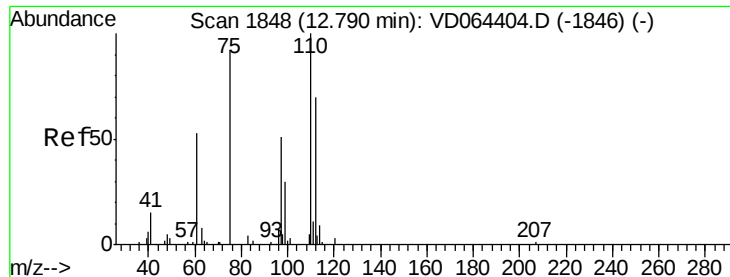
Tot Ion:117 Resp: 22467
Ion Ratio Lower Upper
117 100
82 53.8 41.4 62.2
119 31.4 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064416.D
Acq: 04 Dec 2019 14:52

Tgt Ion:152 Resp: 11772
Ion Ratio Lower Upper
152 100
115 59.1 26.7 80.1
150 150.6 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 58.331 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

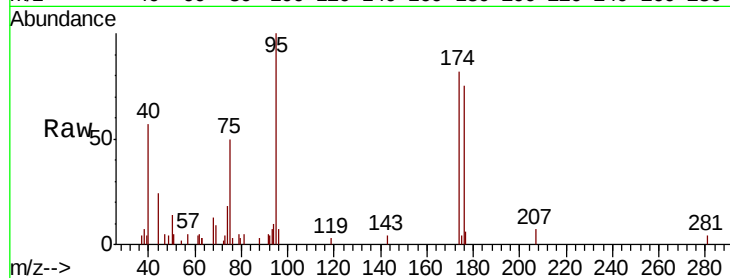
ClientSampleId :

Tot Ion: 75 Resp: 5647

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

3000

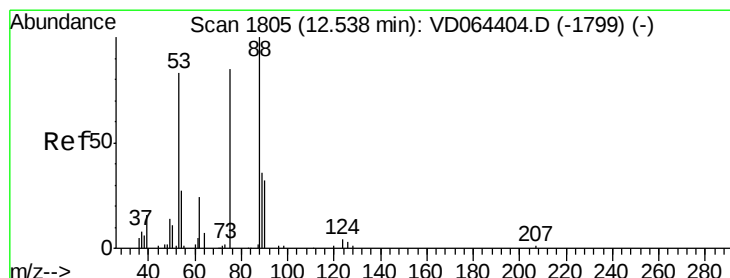
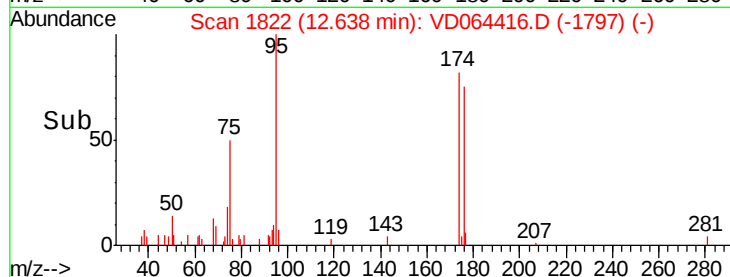
2000

1000

0

Time-->

12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 127.193 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

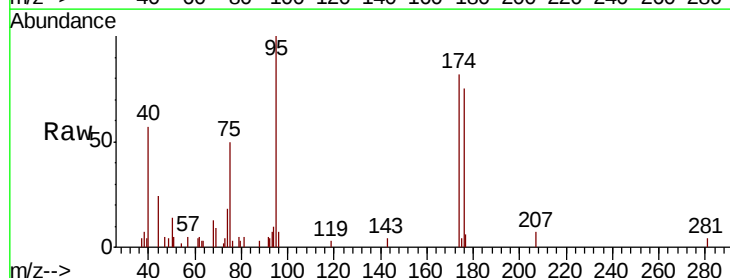
Tgt Ion: 75 Resp: 5647

Ion Ratio Lower Upper

75 100

53 0.0 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

4000

3000

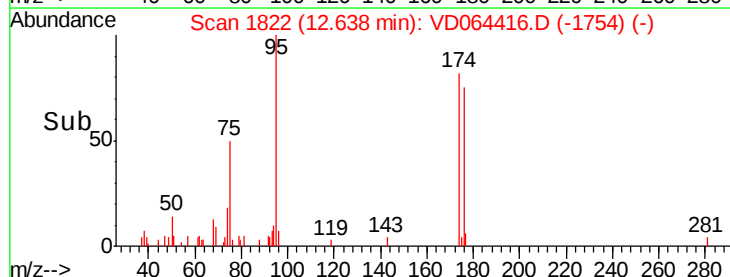
2000

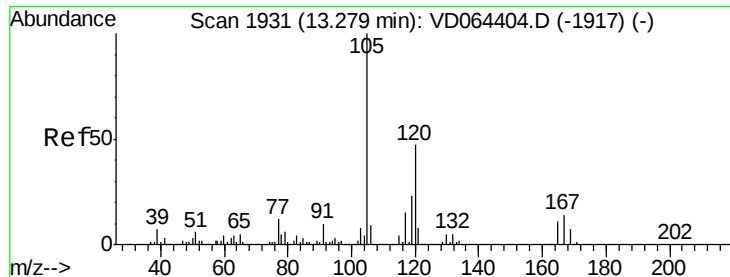
1000

0

Time-->

12.60 12.65 12.70

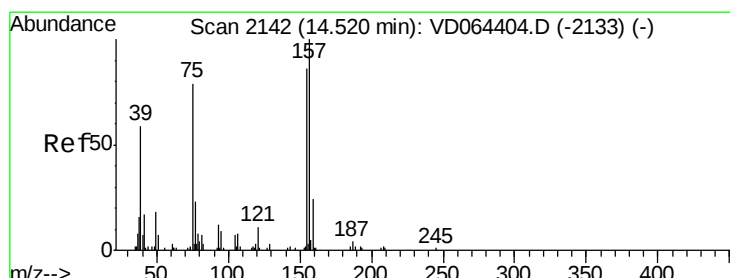
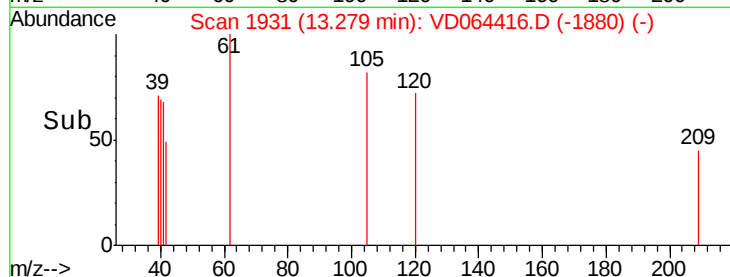
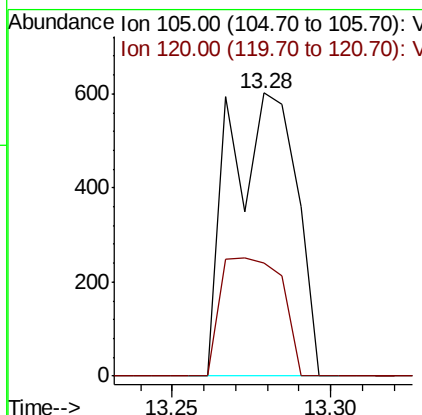
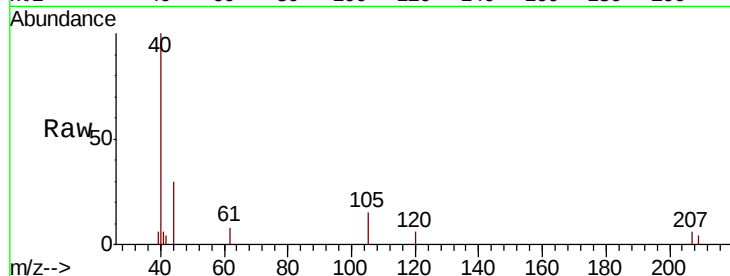




#84
 1,2,4-Trimethylbenzene
 Concen: 1.258 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.00 min
 Lab File: VD064416.D
 Acq: 04 Dec 2019 14:52

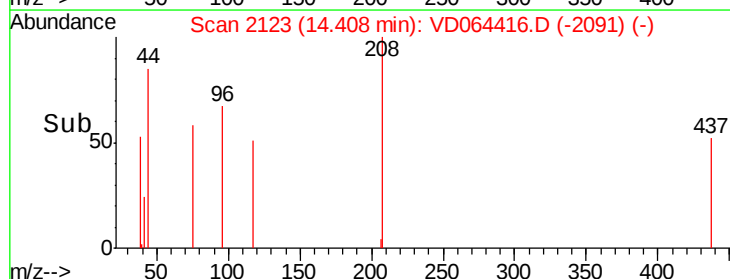
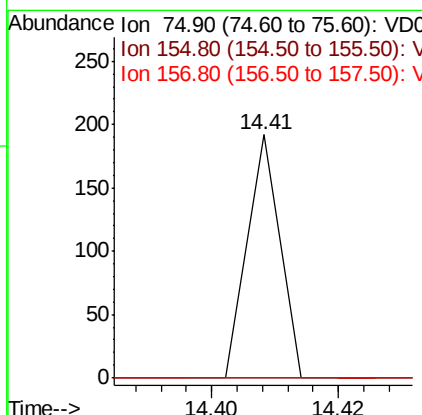
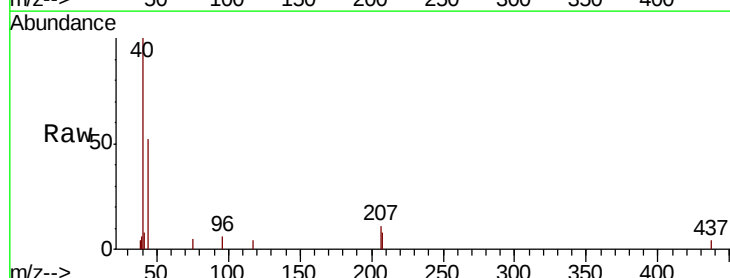
Instrument :
 MSVOA_D
 ClientSampleId :

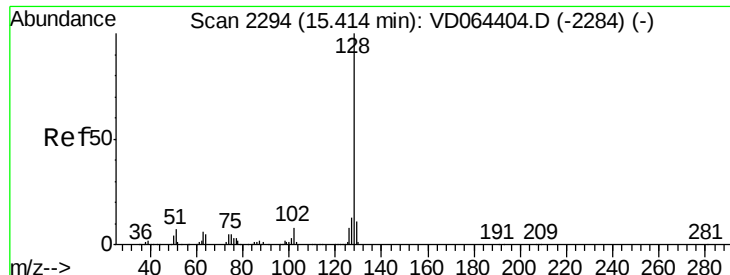
Tot Ion:105 Resp: 875
 Ion Ratio Lower Upper
 105 100
 120 38.5 23.6 70.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.41 min Scan# 2123
 Delta R.T. -0.11 min
 Lab File: VD064416.D
 Acq: 04 Dec 2019 14:52

Tgt Ion: 75 Resp: 68
 Ion Ratio Lower Upper
 75 100
 155 0.0 51.9 155.7#
 157 0.0 63.2 189.8#





#95

Naphthalene

Concen: 2.146 ug/l

RT: 15.42 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VD064416.D

Acq: 04 Dec 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

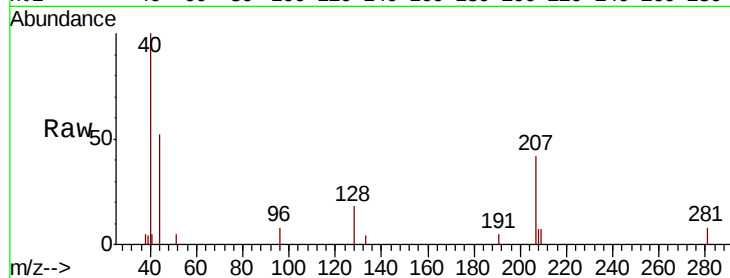
Tot Ion:128 Resp: 930

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 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

