

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD010920\
 Data File : VD064822.D
 Acq On : 09 Jan 2020 17:56
 Operator : VA/SY
 Sample : L1051-09
 Misc : 7.15G/5.00ml/MSVOA D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 10 05:42:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	9358	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	14600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	14541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	6908	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	7354	89.12	ug/l	0.00
Spiked Amount			Recovery	=	178.24%	
35) Dibromofluoromethane	7.91	113	4488	50.10	ug/l	0.00
Spiked Amount			Recovery	=	100.20%	
50) Toluene-d8	10.34	98	16308	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	12.64	95	5606	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	

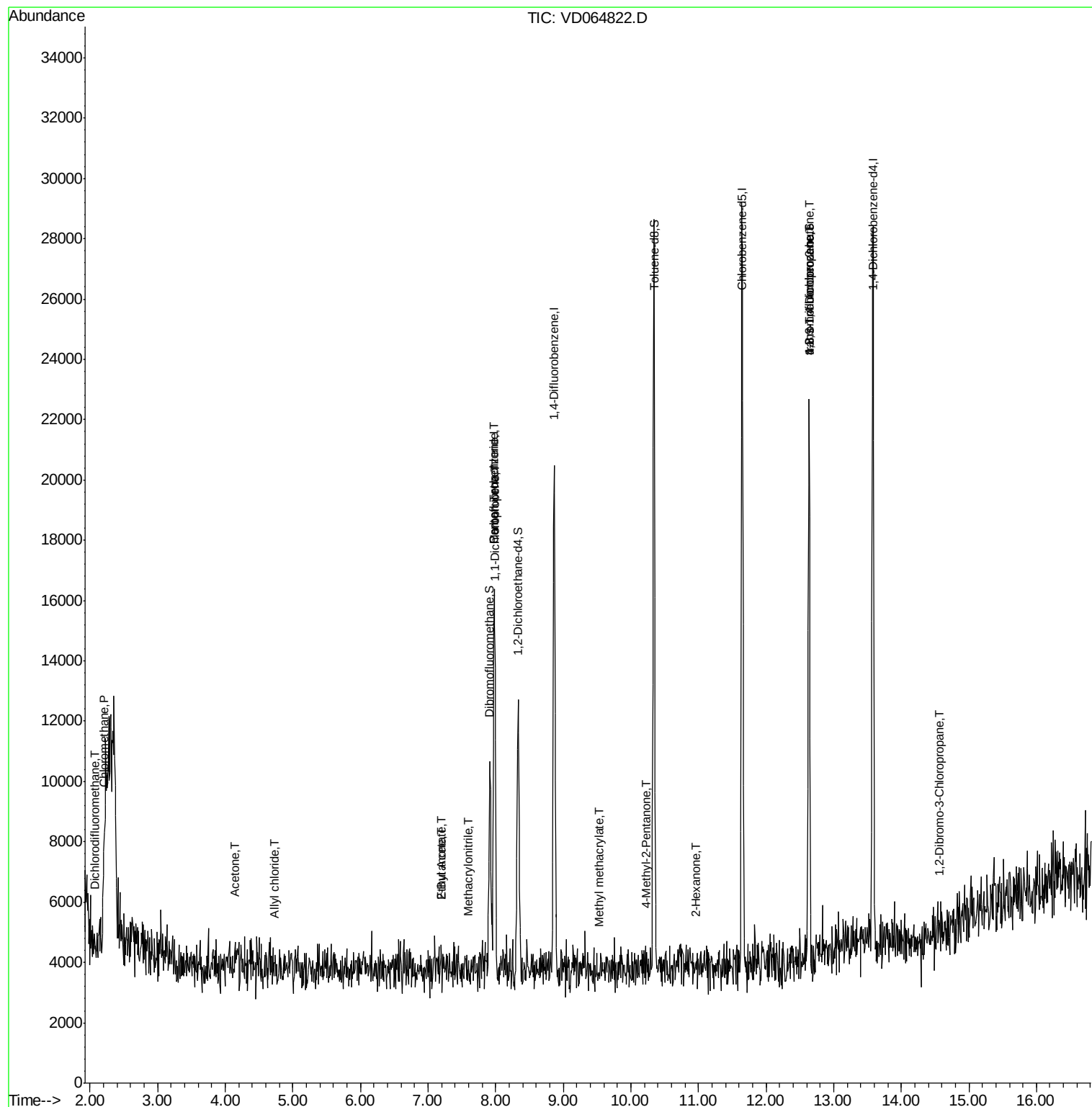
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.07	85	75	1.031	ug/l #	43
3) Chloromethane	2.20	50	186	1.829	ug/l #	42
14) Allyl chloride	4.72	41	129	1.005	ug/l #	19
16) Acetone	4.15	43	403	24.728	ug/l #	42
20) Methylene Chloride	4.96	84	298	Below Cal	#	7
25) 2-Butanone	7.20	43	62	2.733	ug/l #	49
36) 1,1-Dichloropropene	7.99	75	309	2.199	ug/l #	41
37) Ethyl Acetate	7.20	43	62	1.123	ug/l #	70
38) Carbon Tetrachloride	7.98	117	963	6.427	ug/l #	12
41) Methacrylonitrile	7.60	41	114	3.559	ug/l #	24
48) Methyl methacrylate	9.53	41	61	1.179	ug/l #	15
51) 4-Methyl-2-Pentanone	10.23	43	56	1.031	ug/l #	37
59) 2-Hexanone	10.97	43	150	4.069	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	3225	59.120	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	3225	123.648	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.57	75	63	5.011	ug/l #	1

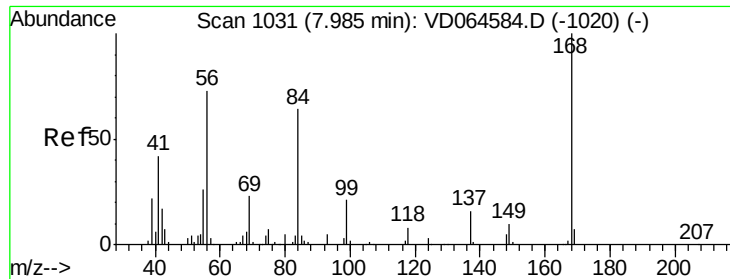
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

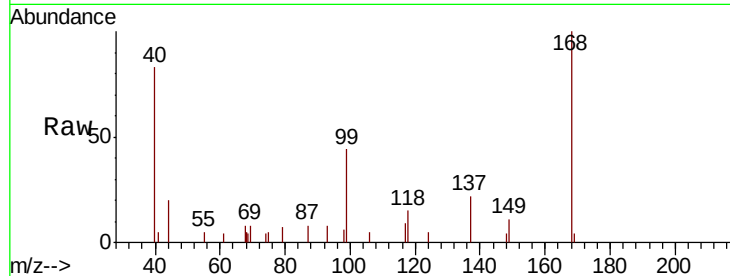
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 9358

Ion Ratio Lower Upper

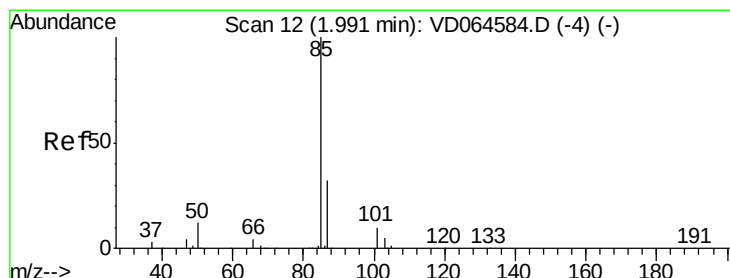
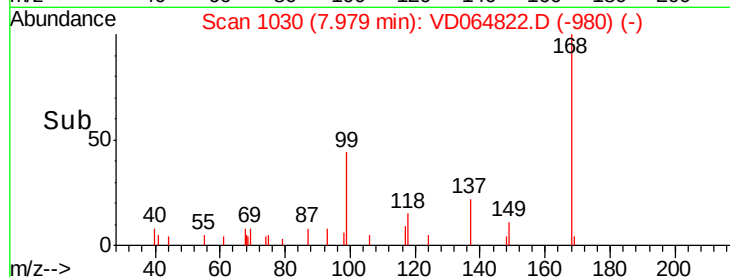
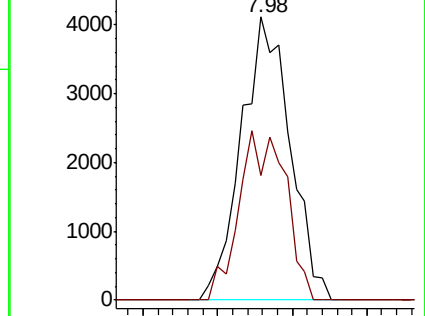
168 100

99 44.1 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 1.031 ug/l

RT: 2.07 min Scan# 26

Delta R.T. 0.08 min

Lab File: VD064822.D

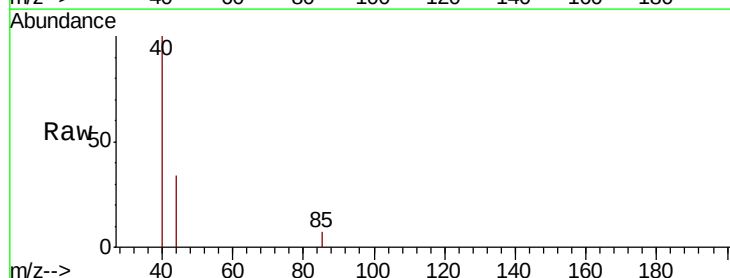
Acq: 09 Jan 2020 17:56

Tgt Ion: 85 Resp: 75

Ion Ratio Lower Upper

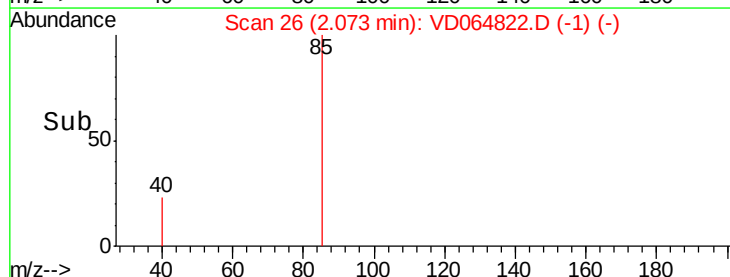
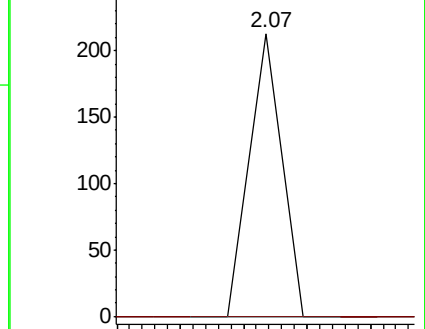
85 100

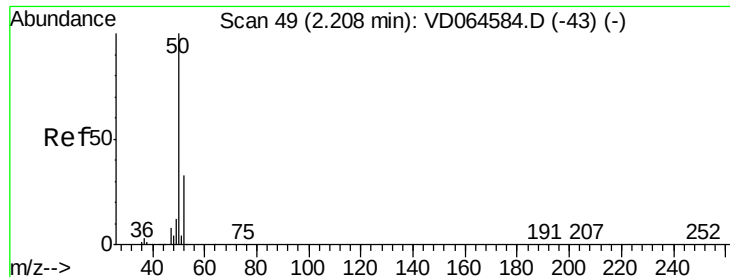
87 0.0 16.1 48.2#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 1.829 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

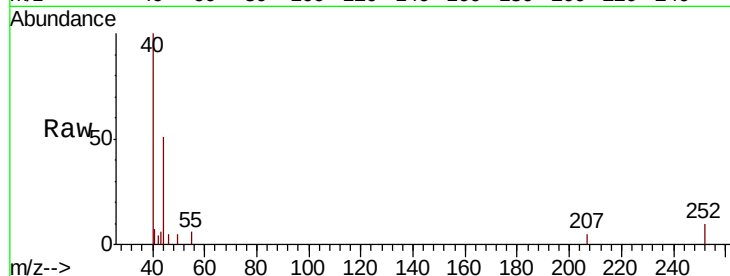
ClientSampleId :

Tot Ion: 50 Resp: 186

Ion Ratio Lower Upper

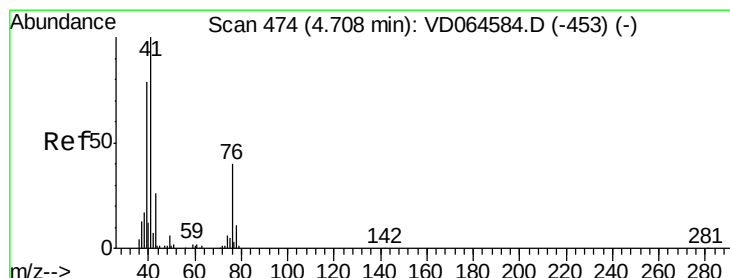
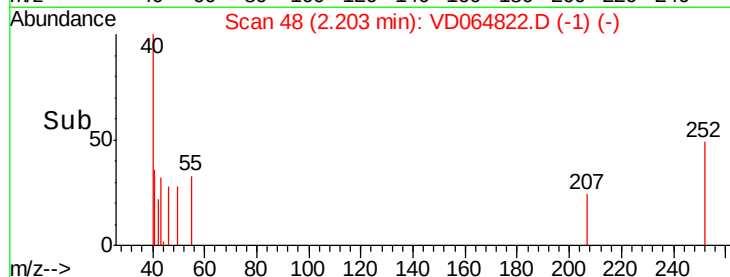
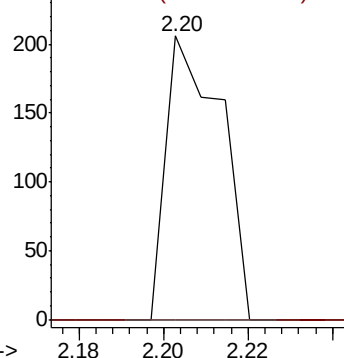
50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#14

Allyl chloride

Concen: 1.005 ug/l

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

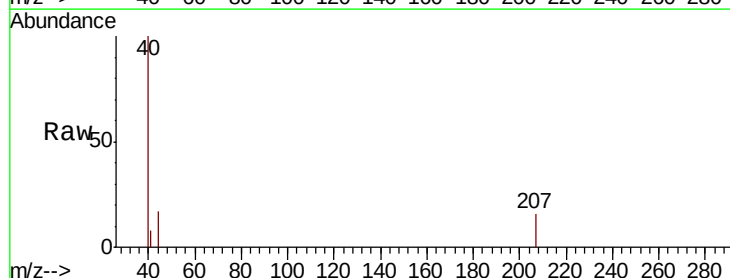
Tgt Ion: 41 Resp: 129

Ion Ratio Lower Upper

41 100

39 0.0 62.3 93.5#

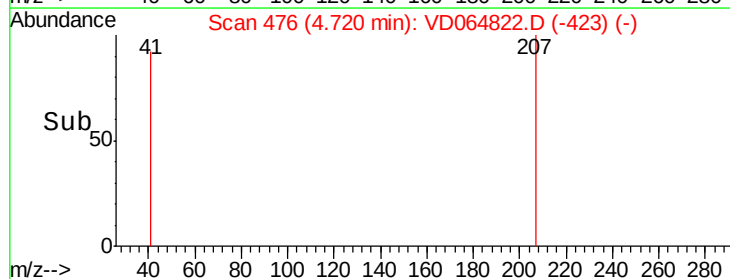
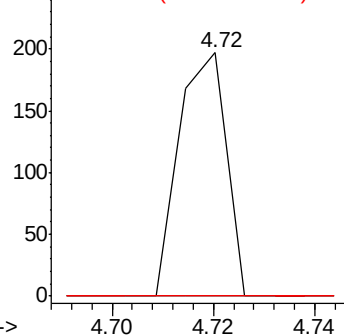
76 0.0 29.7 44.5#

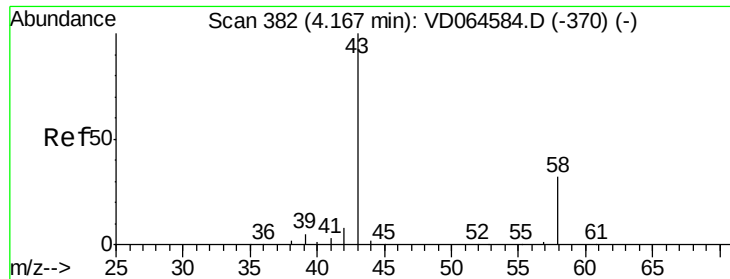


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#16

Acetone

Concen: 24.728 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.02 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

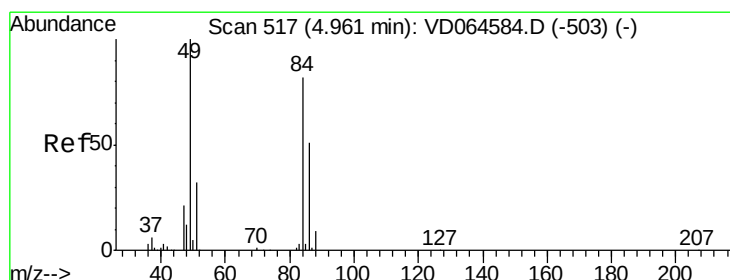
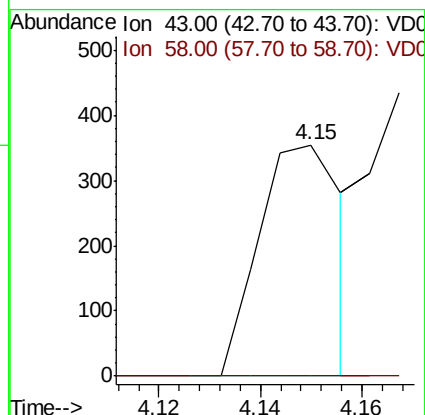
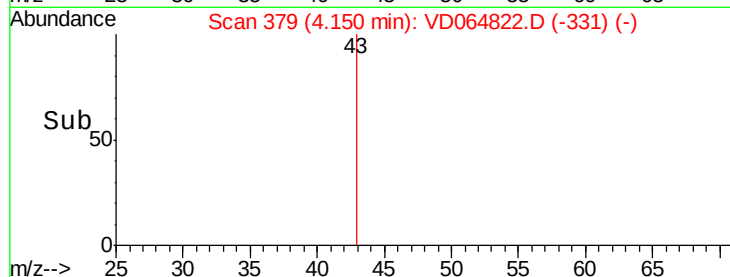
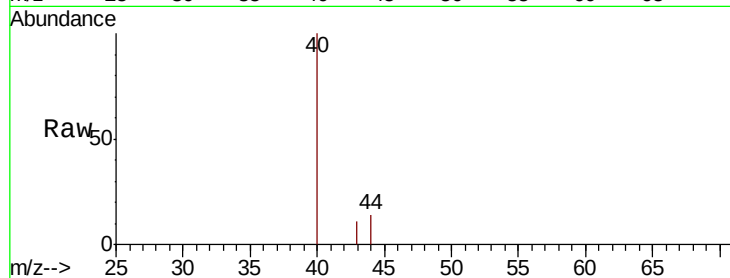
ClientSampleId :

Tot Ion: 43 Resp: 403

Ion Ratio Lower Upper

43 100

58 0.0 25.8 38.6#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Tgt Ion: 84 Resp: 298

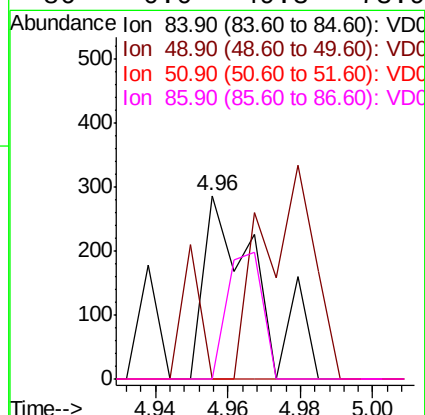
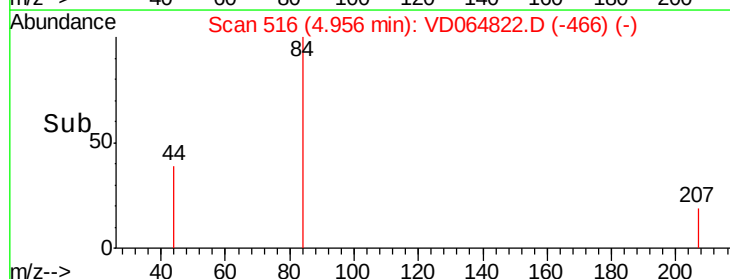
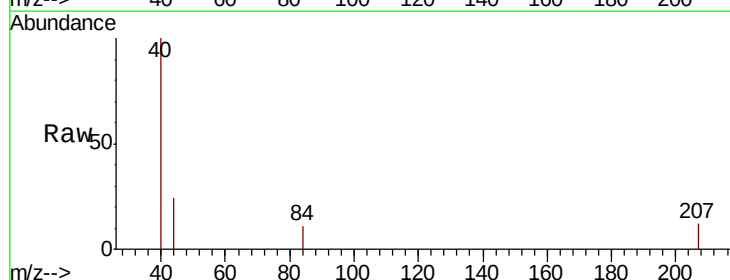
Ion Ratio Lower Upper

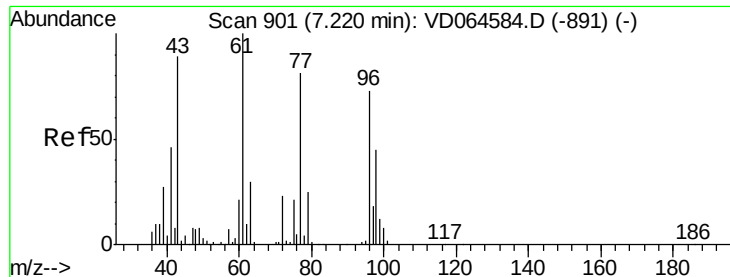
84 100

49 0.0 97.2 145.8#

51 0.0 31.4 47.0#

86 0.0 49.3 73.9#





#25

2-Butanone

Concen: 2.733 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.02 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

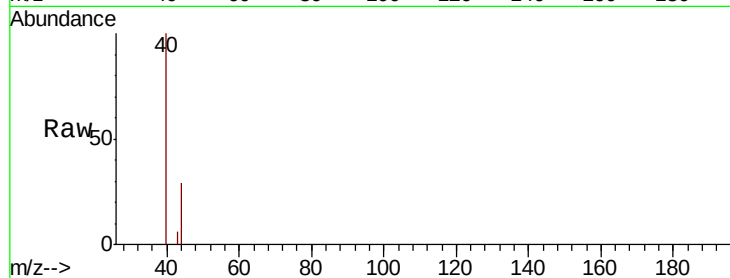
ClientSampled :

Tot Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

150

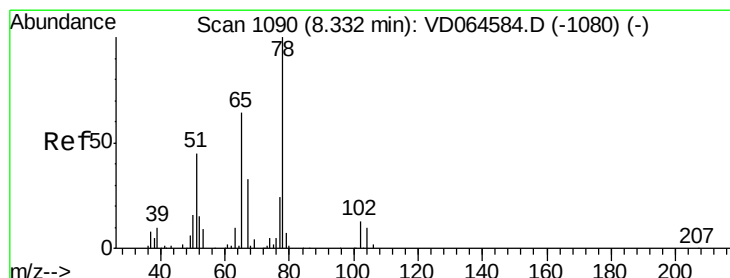
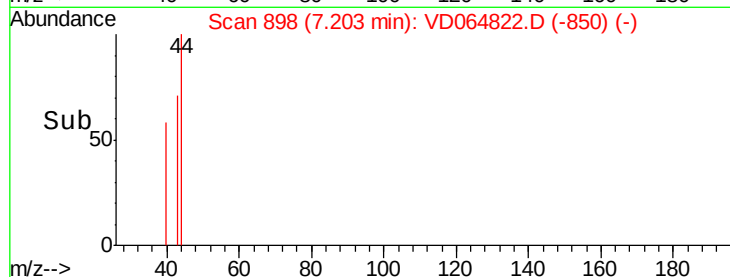
100

50

0

Time-->

7.18 7.19 7.20 7.21 7.22



#33

1,2-Dichloroethane-d4

Concen: 89.120 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064822.D

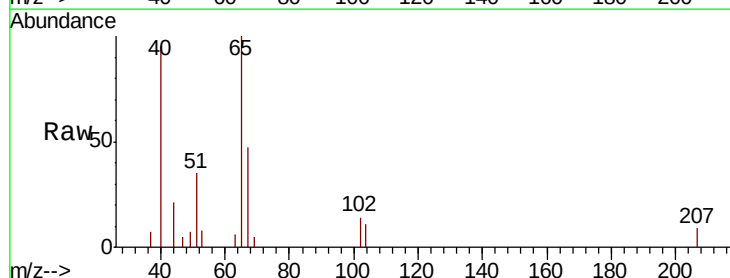
Acq: 09 Jan 2020 17:56

Tgt Ion: 65 Resp: 7354

Ion Ratio Lower Upper

65 100

67 54.3 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

3000

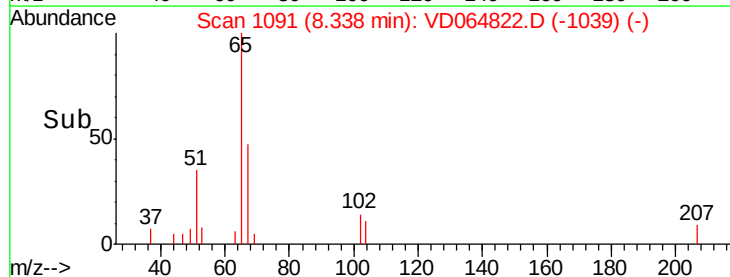
2000

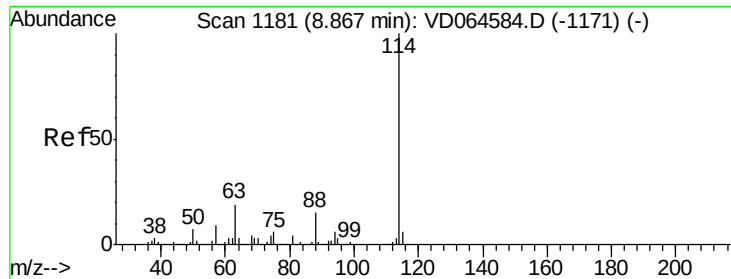
1000

0

Time-->

8.25 8.30 8.35 8.40

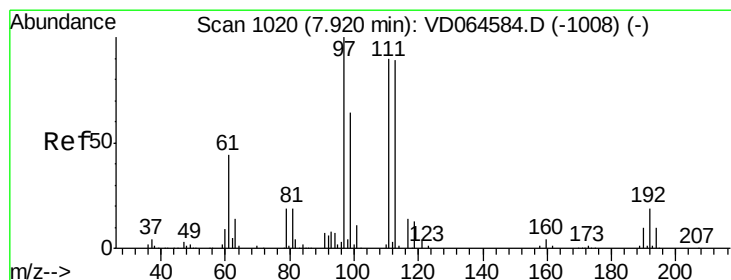
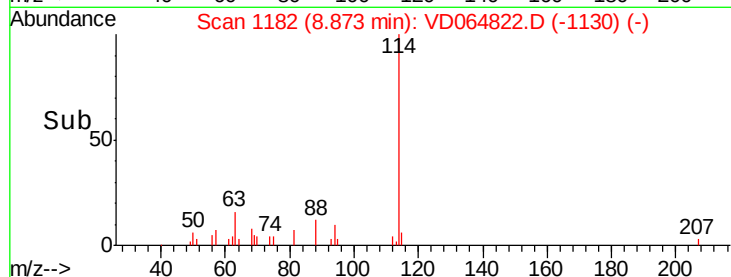
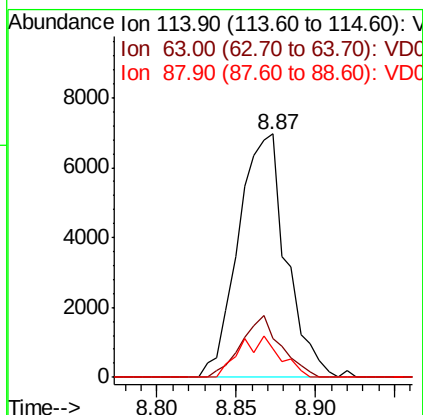
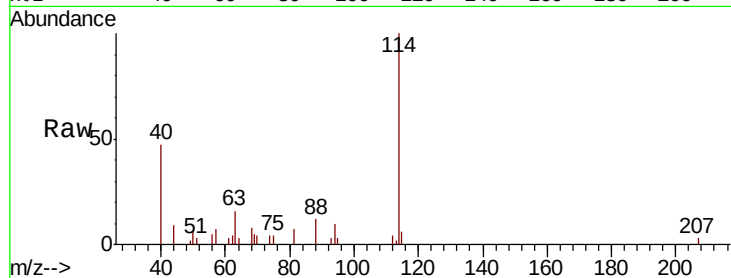




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1182
 Delta R.T. 0.01 min
 Lab File: VD064822.D
 Acq: 09 Jan 2020 17:56

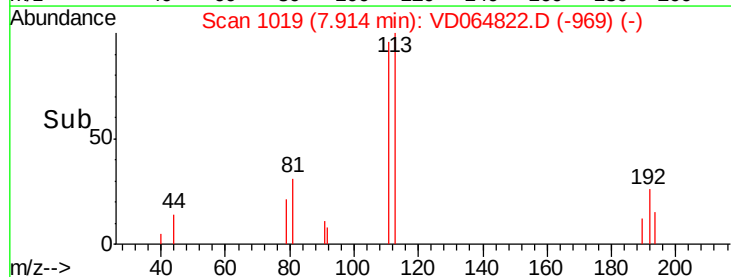
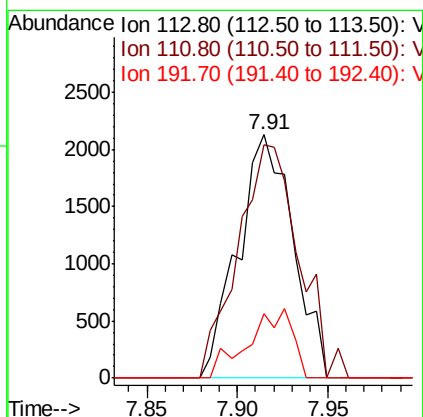
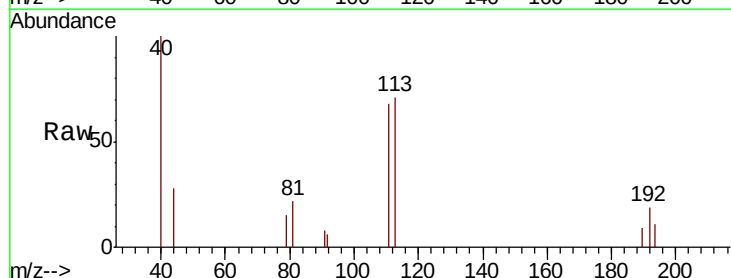
Instrument :
 MSVOA_D
 ClientSampleId :

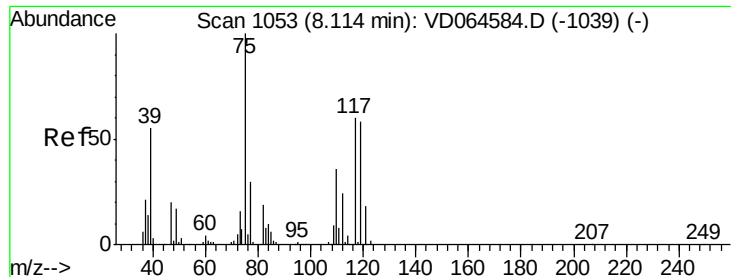
Tot Ion:114 Resp: 14600
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 38.0
 88 12.0 0.0 29.2



#35
 Dibromofluoromethane
 Concen: 50.104 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064822.D
 Acq: 09 Jan 2020 17:56

Tgt Ion:113 Resp: 4488
 Ion Ratio Lower Upper
 113 100
 111 106.7 80.6 121.0
 192 22.9 17.9 26.9





#36

1,1-Dichloropropene

Concen: 2.199 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.12 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

ClientSampleId :

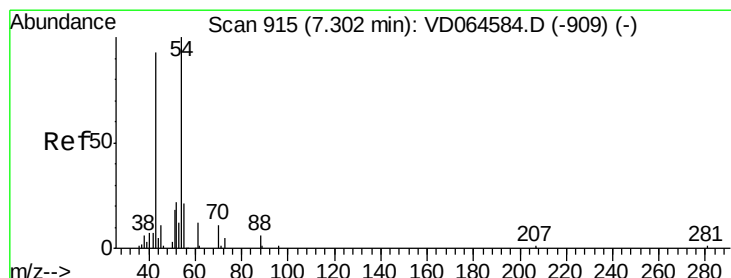
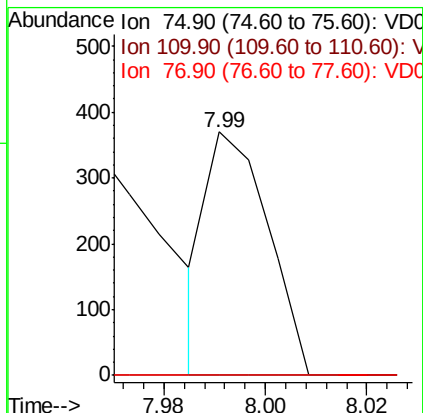
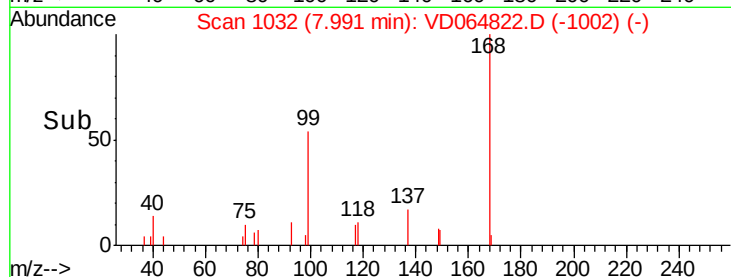
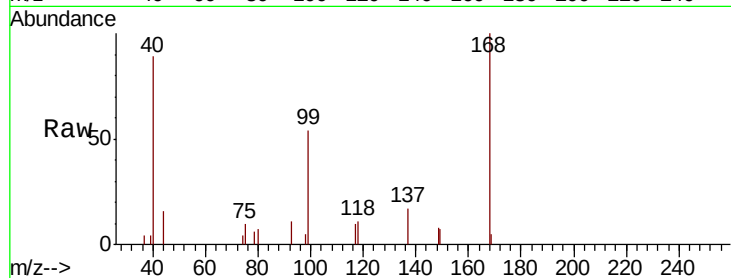
Tot Ion: 75 Resp: 309

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 1.123 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.10 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

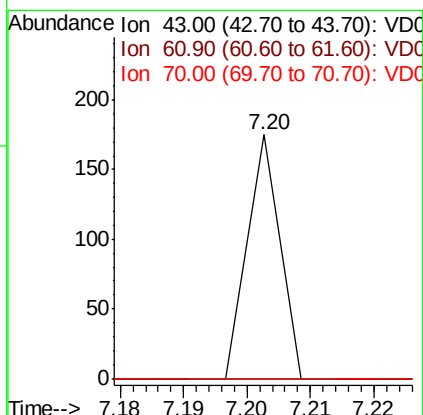
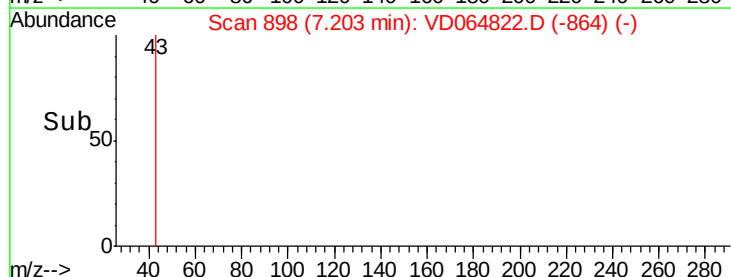
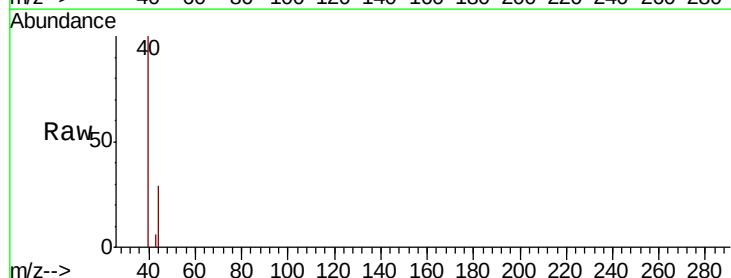
Tgt Ion: 43 Resp: 62

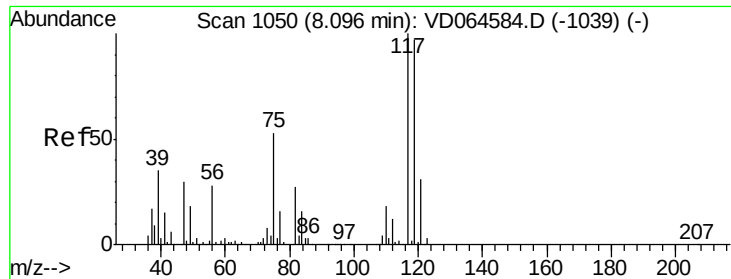
Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 6.427 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

ClientSampled :

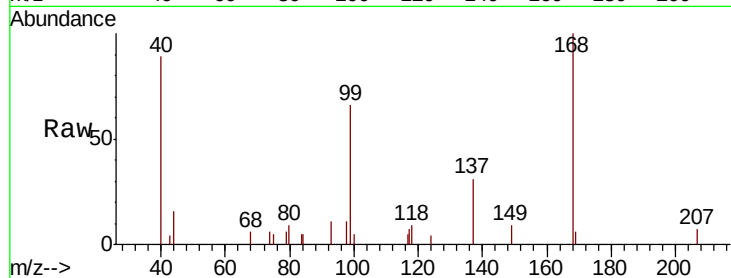
Tot Ion:117 Resp: 963

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

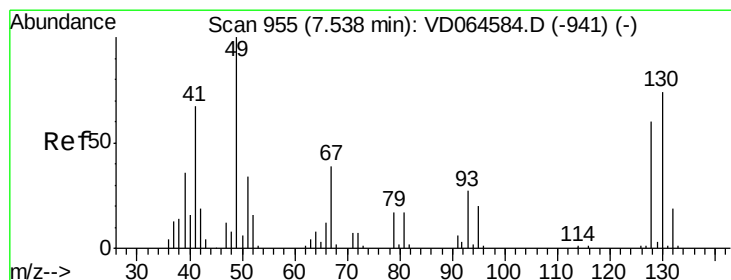
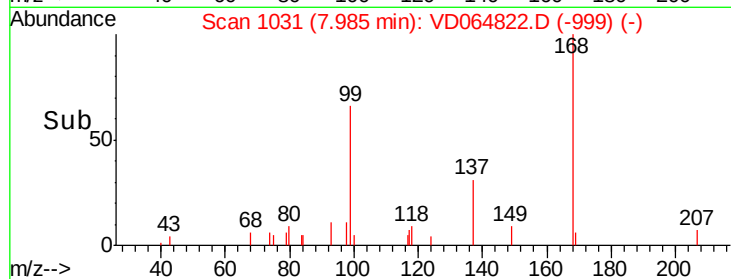
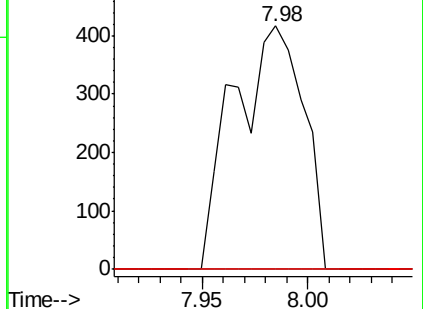
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: 3.559 ug/l

RT: 7.60 min Scan# 966

Delta R.T. 0.07 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Tgt Ion: 41 Resp: 114

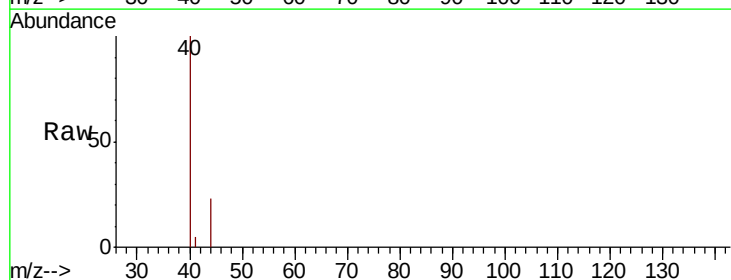
Ion Ratio Lower Upper

41 100

39 0.0 46.7 70.1#

67 0.0 52.5 78.7#

52 0.0 24.1 36.1#

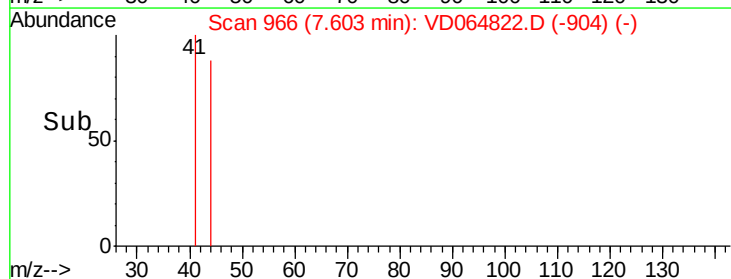
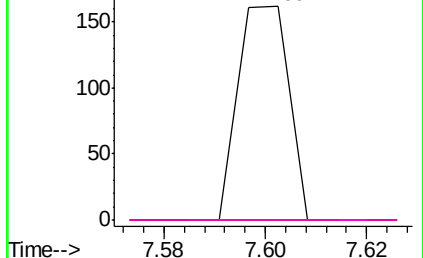


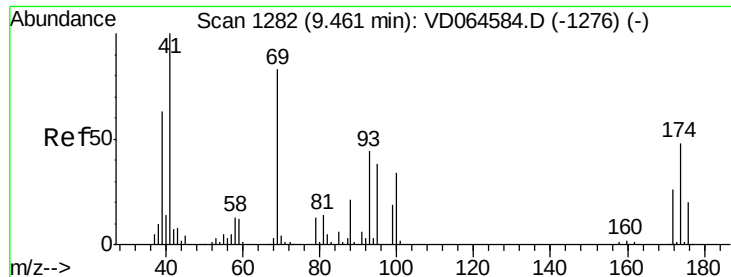
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

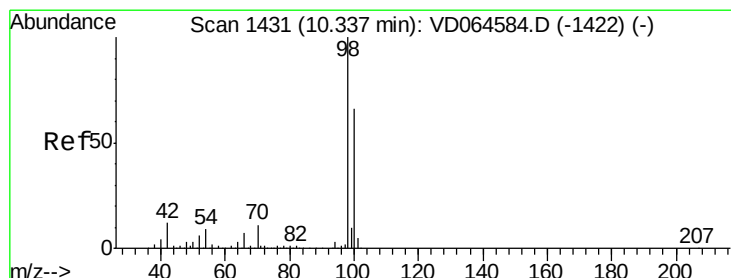
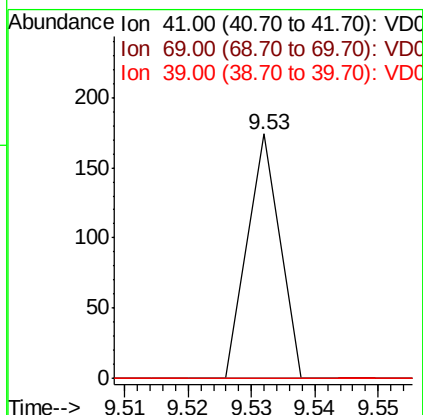
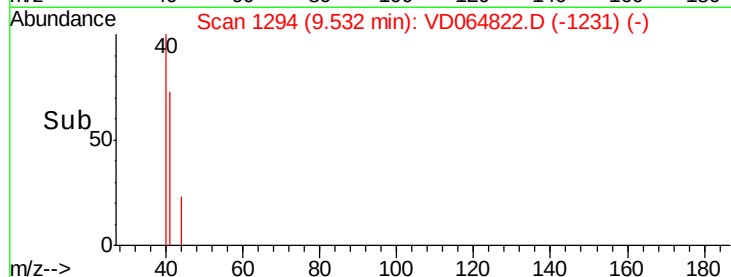
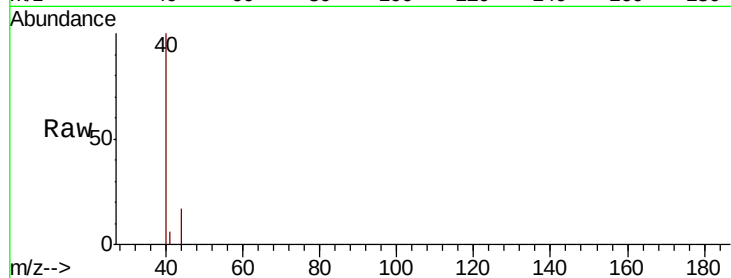




#48
Methvl methacrylate
Concen: 1.179 ug/l
RT: 9.53 min Scan# 1294
Delta R.T. 0.07 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

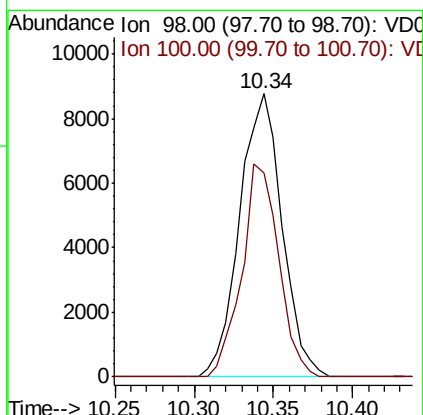
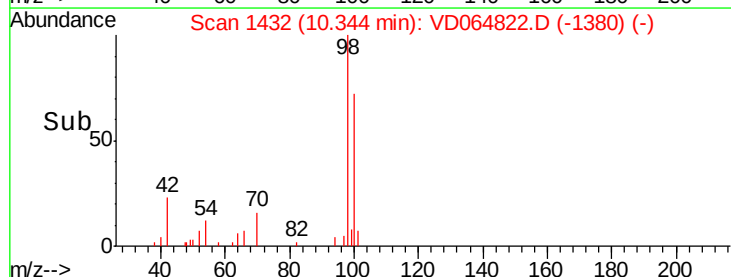
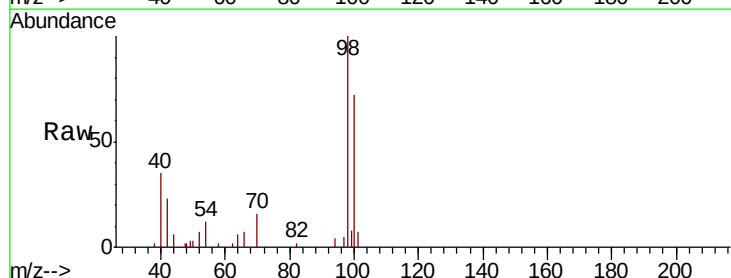
Instrument :
MSVOA_D
ClientSampleId :

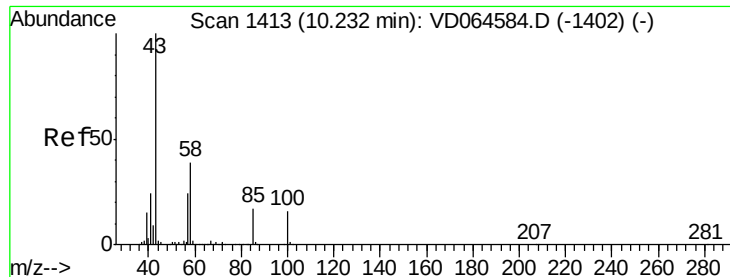
Tot Ion: 41 Resp: 61
Ion Ratio Lower Upper
41 100
69 0.0 63.0 94.6#
39 0.0 47.4 71.2#



#50
Toluene-d8
Concen: 47.537 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.01 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

Tgt Ion: 98 Resp: 16308
Ion Ratio Lower Upper
98 100
100 65.5 51.7 77.5

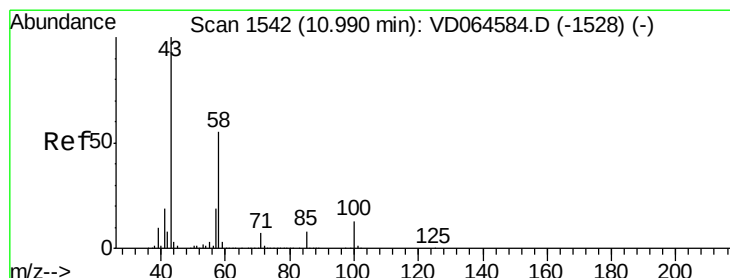
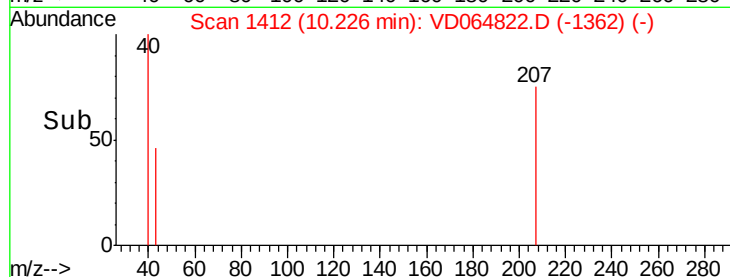
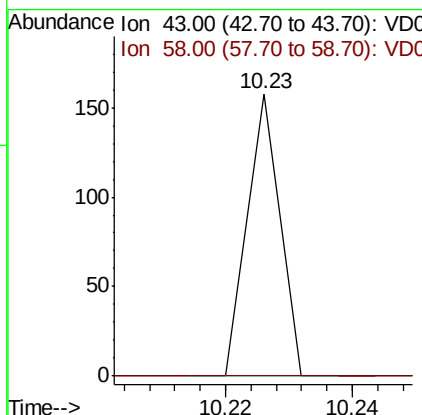
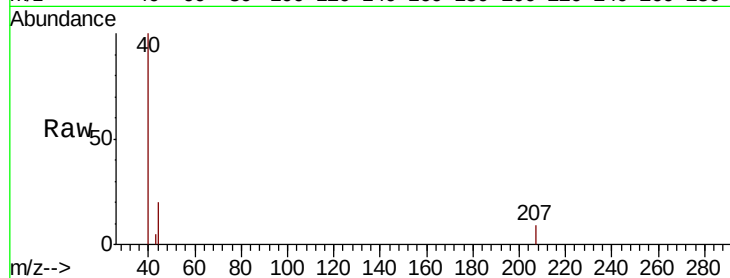




#51
4-Methyl-2-Pentanone
Concen: 1.031 ug/l
RT: 10.23 min Scan# 1412
Delta R.T. -0.01 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

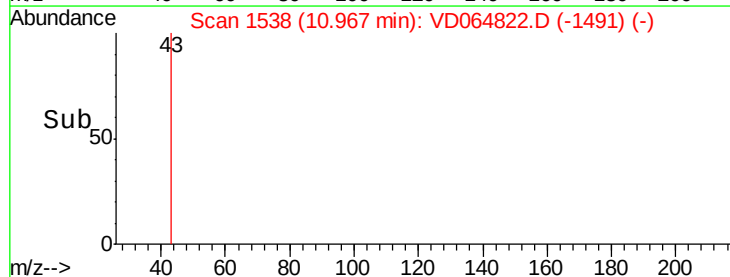
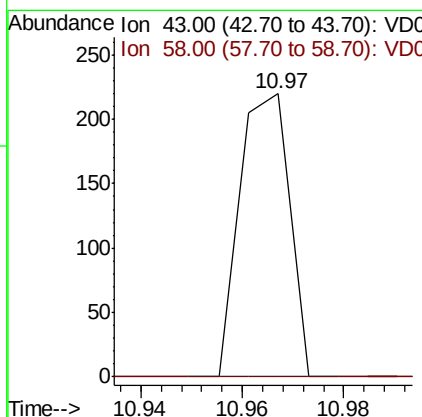
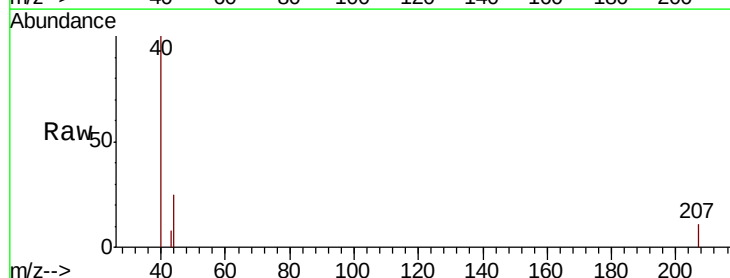
Instrument :
MSVOA_D
ClientSampleId :

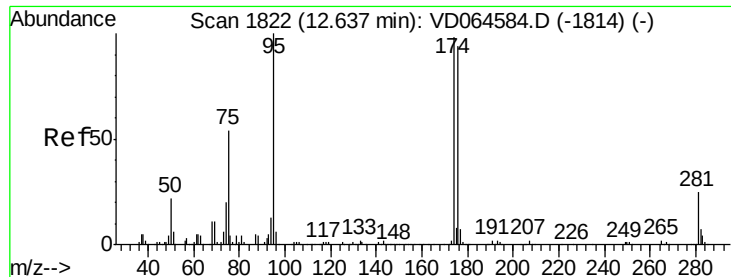
Tot Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.2#



#59
2-Hexanone
Concen: 4.069 ug/l
RT: 10.97 min Scan# 1538
Delta R.T. -0.02 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

Tgt Ion: 43 Resp: 150
Ion Ratio Lower Upper
43 100
58 0.0 26.4 79.0#

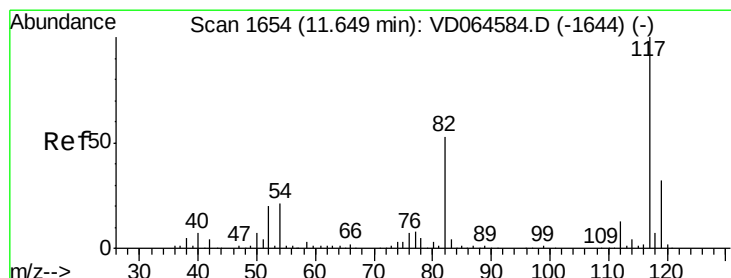
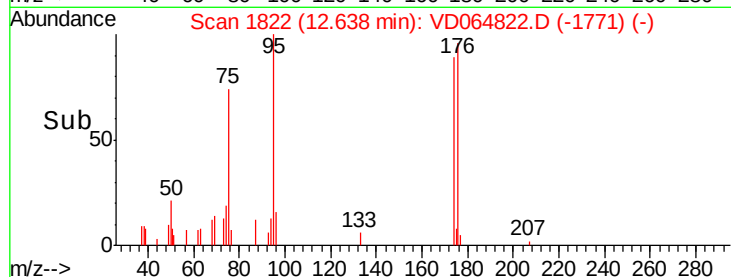
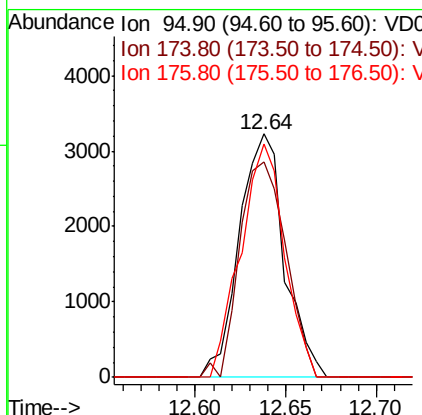
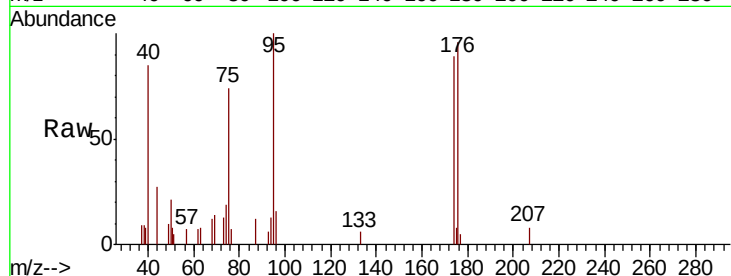




#62
4-Bromofluorobenzene
Concen: 51.679 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

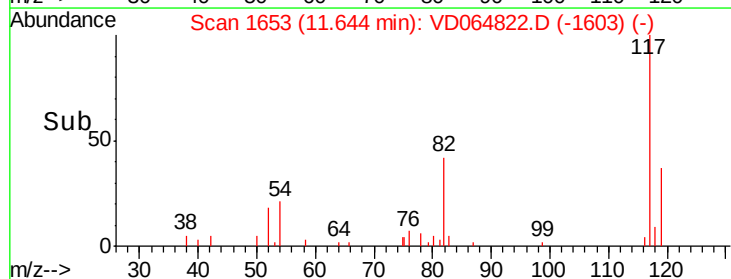
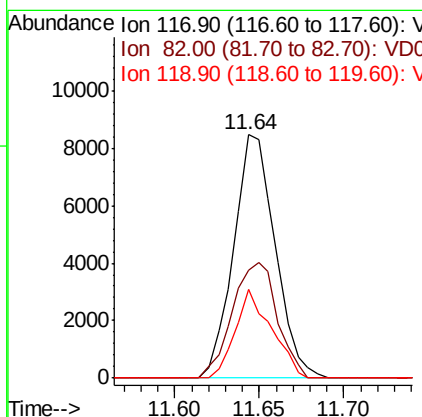
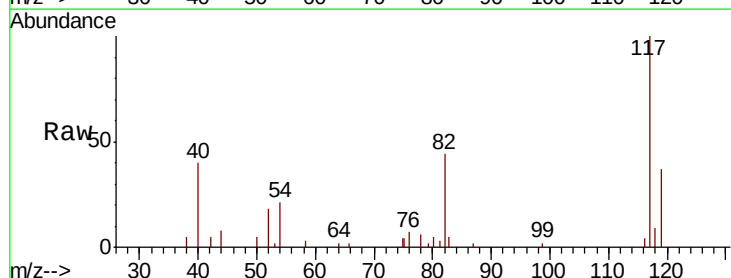
Instrument :
MSVOA_D
ClientSampleId :

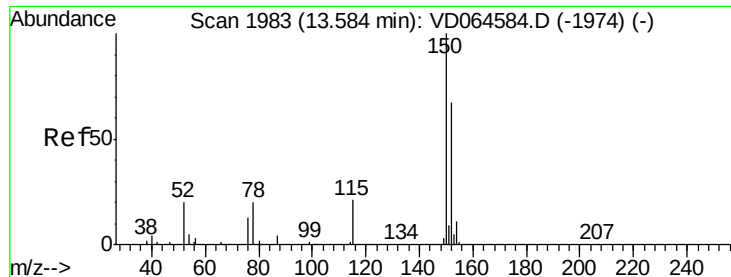
Tot Ion: 95 Resp: 5606
Ion Ratio Lower Upper
95 100
174 90.8 0.0 193.2
176 92.6 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064822.D
Acq: 09 Jan 2020 17:56

Tgt Ion: 117 Resp: 14541
Ion Ratio Lower Upper
117 100
82 44.5 42.2 63.4
119 36.6 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

ClientSampleId :

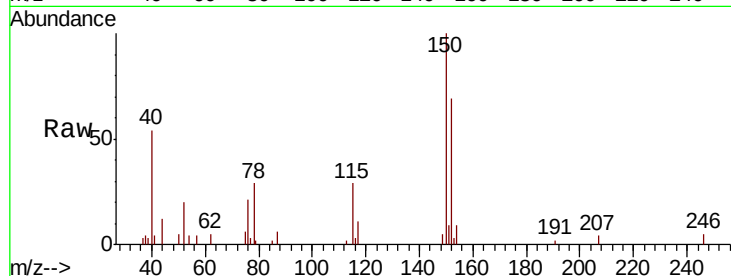
Tot Ion:152 Resp: 6908

Ion Ratio Lower Upper

152 100

115 52.0 27.8 83.4

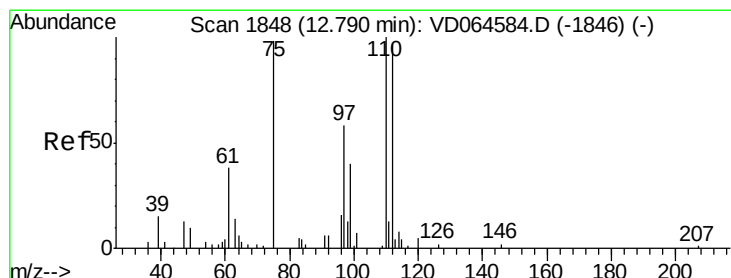
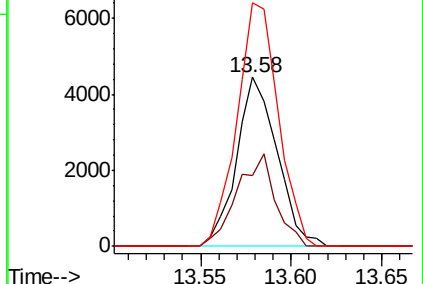
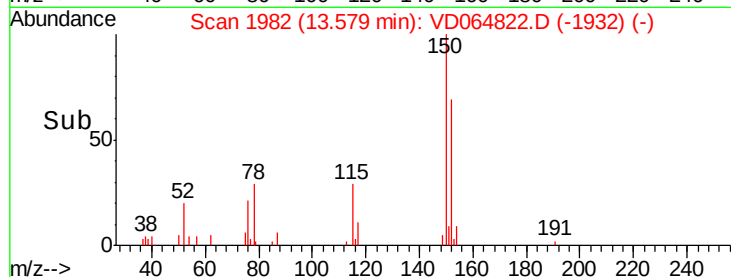
150 146.7 0.0 351.4



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: 59.120 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064822.D

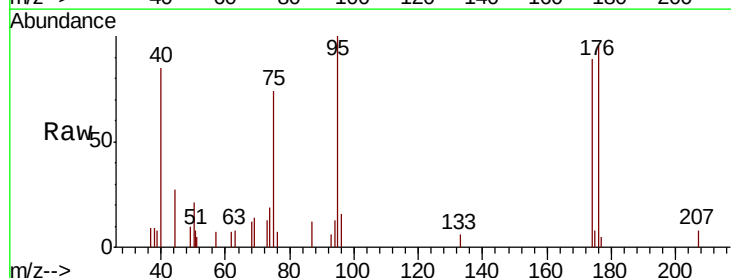
Acq: 09 Jan 2020 17:56

Tgt Ion: 75 Resp: 3225

Ion Ratio Lower Upper

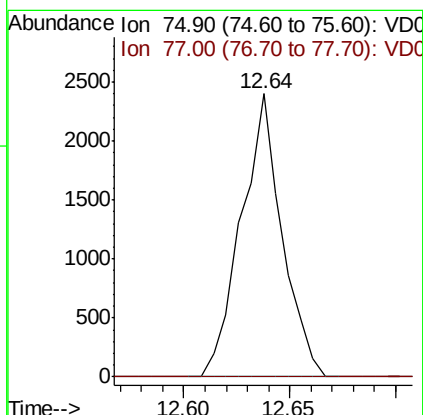
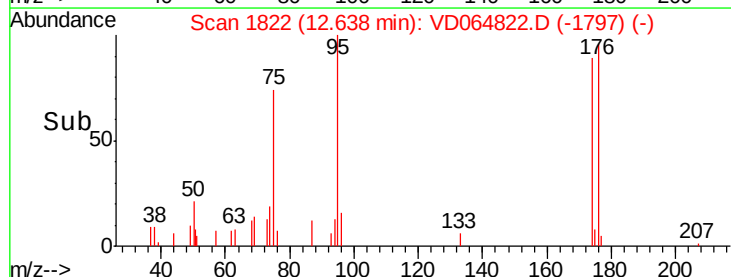
75 100

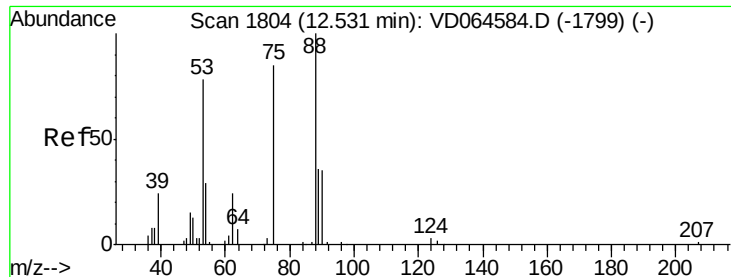
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.648 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

Instrument :

MSVOA_D

ClientSampleId :

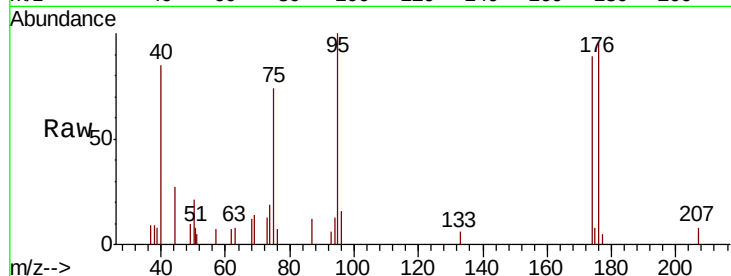
Tot Ion: 75 Resp: 3225

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

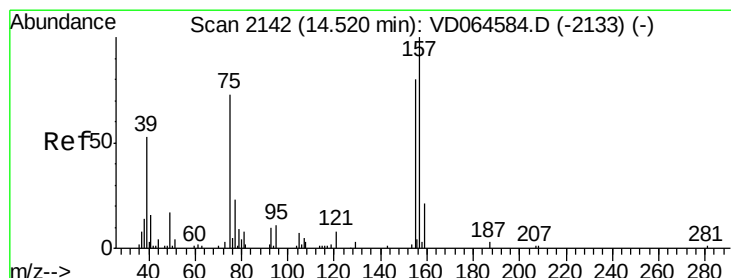
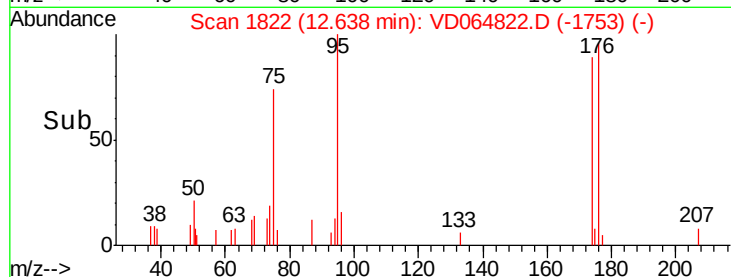
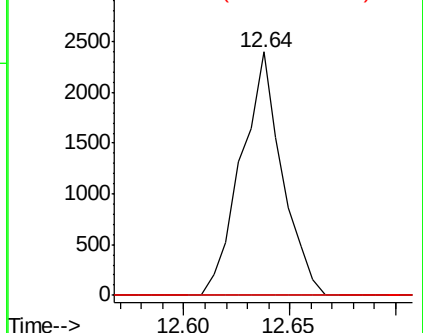
89 0.0 38.3 57.5#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.011 ug/l

RT: 14.57 min Scan# 2150

Delta R.T. 0.05 min

Lab File: VD064822.D

Acq: 09 Jan 2020 17:56

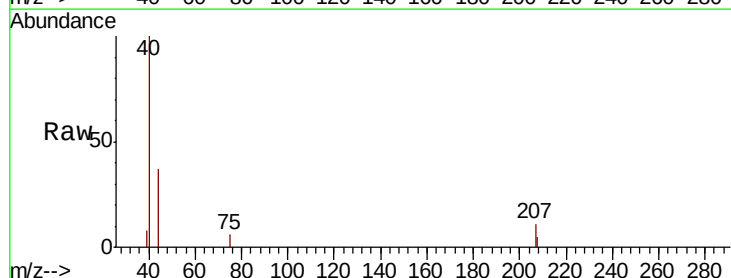
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

157 0.0 64.1 192.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

