

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012420\
 Data File : VD064950.D
 Acq On : 24 Jan 2020 18:36
 Operator : VA/SY
 Sample : L1242-06
 Misc : 5.01G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20200054-FIELD-DUP-COMP

Quant Time: Jan 25 02:40:24 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	16556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	25710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	26468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	14382	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	11920	75.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	150.12%	
35) Dibromofluoromethane	7.91	113	10247	63.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.84%	
50) Toluene-d8	10.34	98	28404	45.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.10%	
62) 4-Bromofluorobenzene	12.64	95	11146	58.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.82%	

Target Compounds

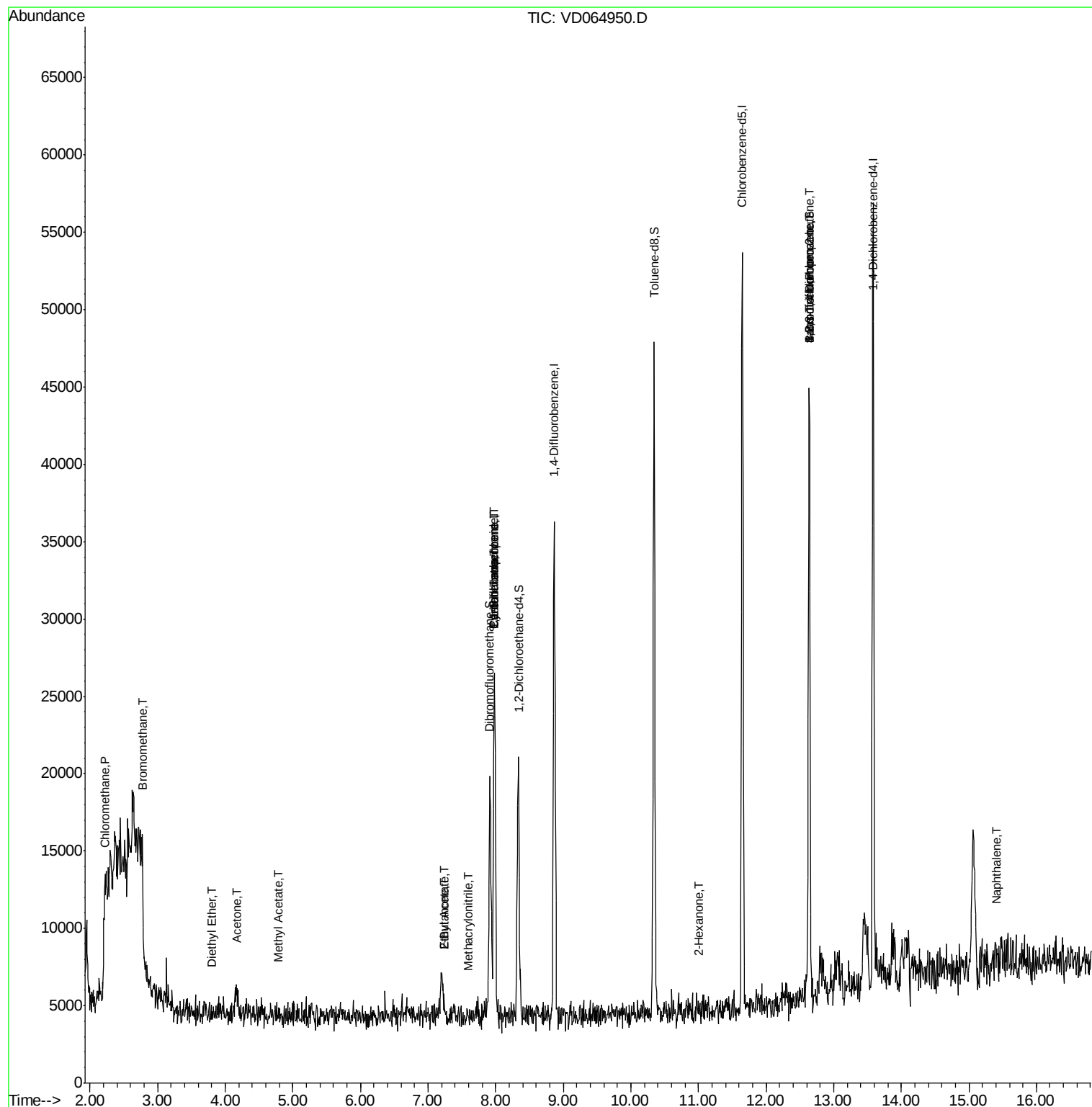
						Qvalue
3) Chloromethane	2.21	50	244	1.335	ug/l #	44
5) Bromomethane	2.77	94	357	2.528	ug/l #	38
8) Diethyl Ether	3.81	74	78	1.066	ug/l #	1
16) Acetone	4.17	43	1913	55.598	ug/l	91
18) Methyl Acetate	4.78	43	117	1.573	ug/l #	51
20) Methylene Chloride	4.96	84	68	Below Cal	#	51
25) 2-Butanone	7.23	43	507	11.817	ug/l #	49
31) Cyclohexane	7.98	56	295	1.066	ug/l #	82
36) 1,1-Dichloropropene	7.98	75	1404	5.663	ug/l #	53
37) Ethyl Acetate	7.23	43	507	4.951	ug/l #	69
38) Carbon Tetrachloride	7.98	117	1719	6.560	ug/l #	14
41) Methacrylonitrile	7.60	41	140	2.538	ug/l #	49
59) 2-Hexanone	11.00	43	171	2.547	ug/l #	25
71) Bromoform	12.64	173	218	1.940	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	6166	51.654	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6166	110.293	ug/l #	10
95) Naphthalene	15.41	128	1058	2.419	ug/l #	91

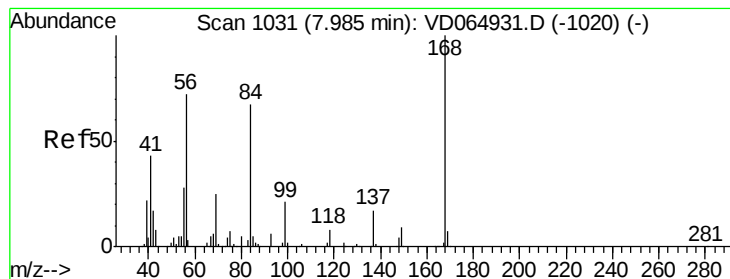
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD012420\
Data File : VD064950.D
Acq On : 24 Jan 2020 18:36
Operator : VA/SY
Sample : L1242-06
Misc : 5.01G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
20200054-FIELD-DUP-COMP

Quant Time: Jan 25 02:40:24 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
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# 1030

Delta R.T. -0.01 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

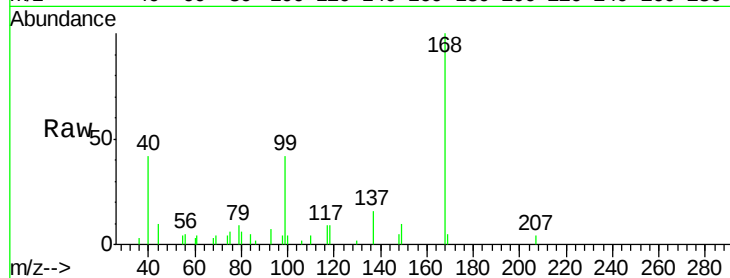
20200054-FIELD-DUP-COMP

Tot Ion:168 Resp: 16556

Ion Ratio Lower Upper

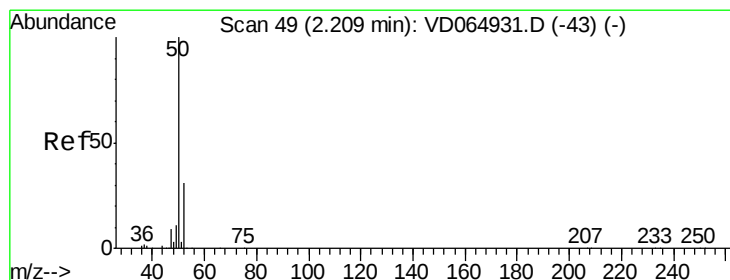
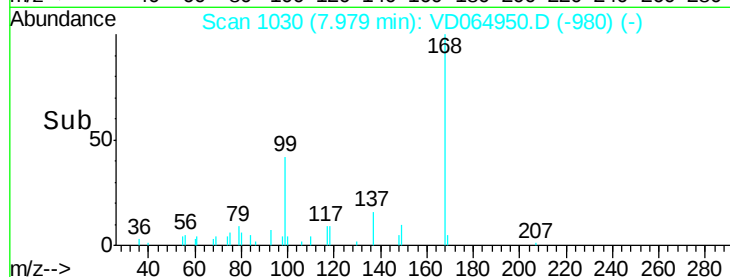
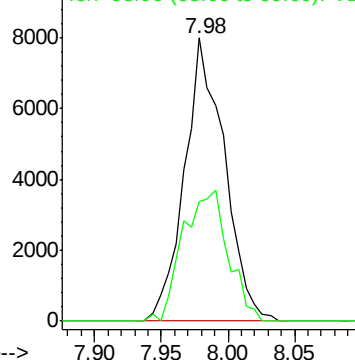
168 100

99 42.4 43.3 64.9#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.335 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064950.D

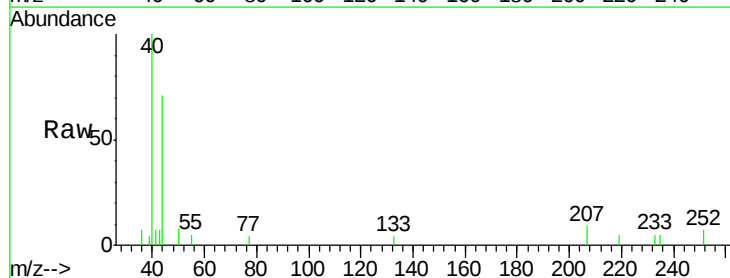
Acq: 24 Jan 2020 18:36

Tgt Ion: 50 Resp: 244

Ion Ratio Lower Upper

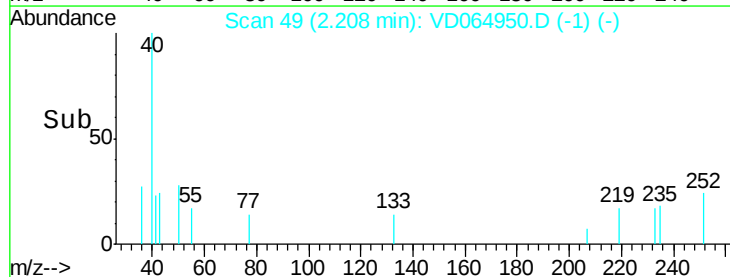
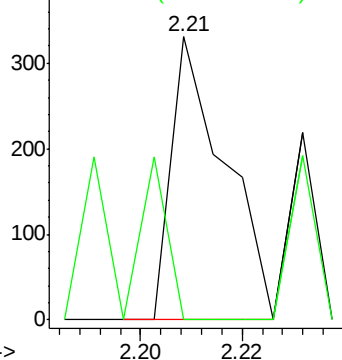
50 100

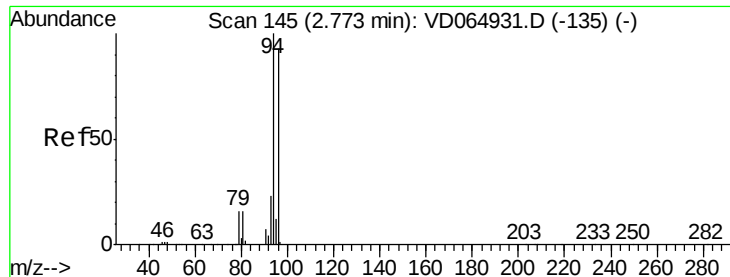
52 0.0 24.6 36.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 2.528 ug/l

RT: 2.77 min Scan# 145

Delta R.T. -0.00 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

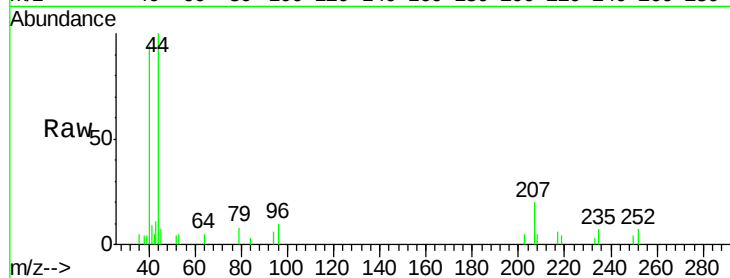
20200054-FIELD-DUP-COMP

Tot Ion: 94 Resp: 357

Ion Ratio Lower Upper

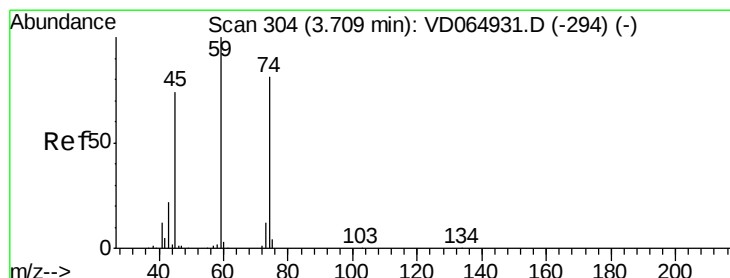
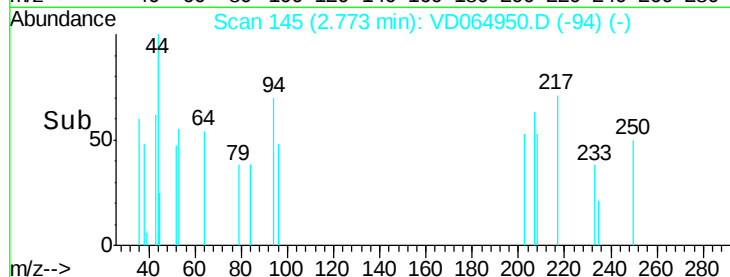
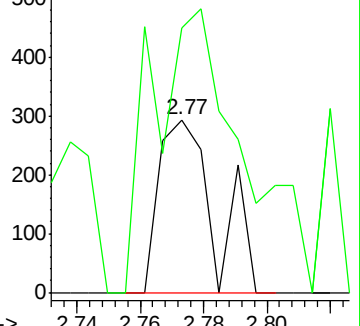
94 100

96 153.2 74.6 111.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#8

Diethyl Ether

Concen: 1.066 ug/l

RT: 3.81 min Scan# 321

Delta R.T. 0.10 min

Lab File: VD064950.D

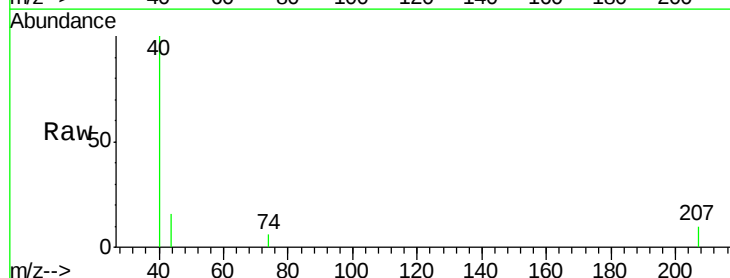
Acq: 24 Jan 2020 18:36

Tgt Ion: 74 Resp: 78

Ion Ratio Lower Upper

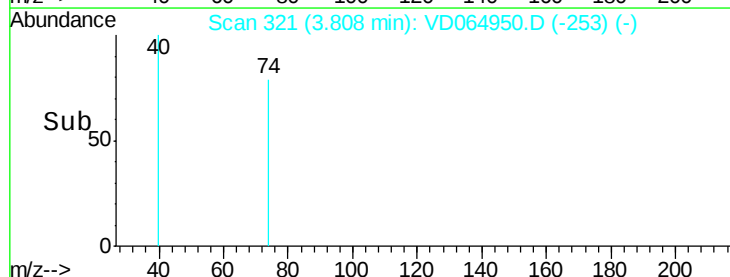
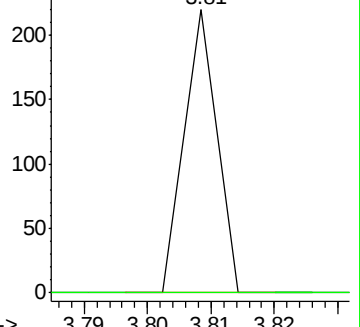
74 100

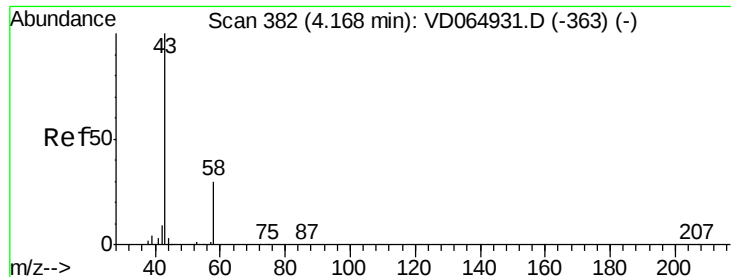
45 0.0 48.5 145.5#



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC





#16

Acetone

Concen: 55.598 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

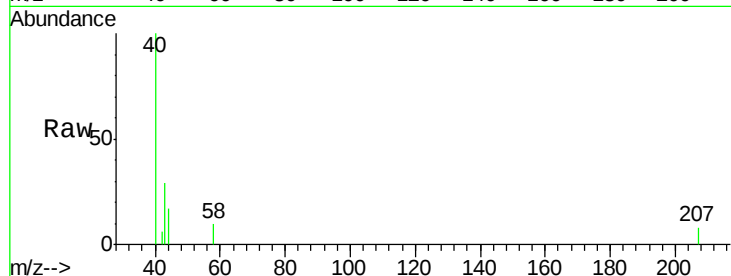
20200054-FIELD-DUP-COMP

Tot Ion: 43 Resp: 1913

Ion Ratio Lower Upper

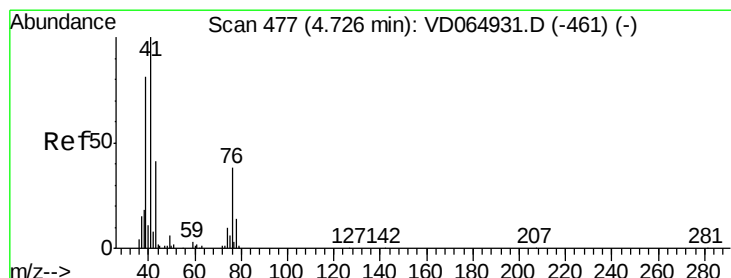
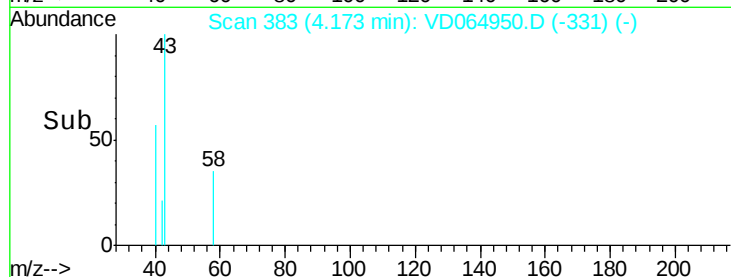
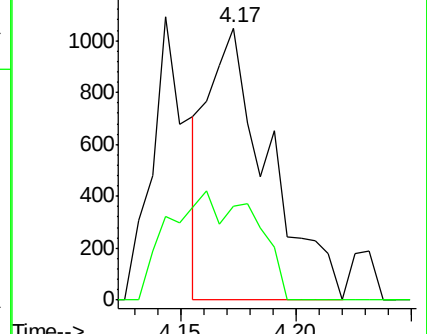
43 100

58 34.7 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.573 ug/l

RT: 4.78 min Scan# 487

Delta R.T. 0.06 min

Lab File: VD064950.D

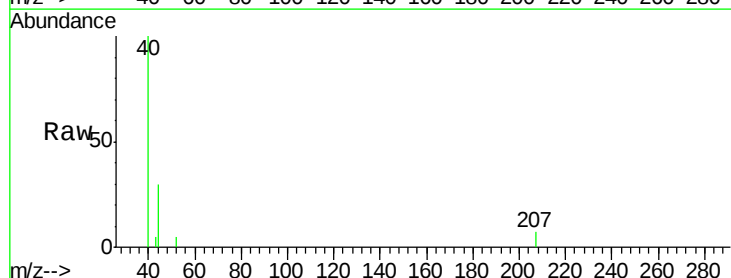
Acq: 24 Jan 2020 18:36

Tgt Ion: 43 Resp: 117

Ion Ratio Lower Upper

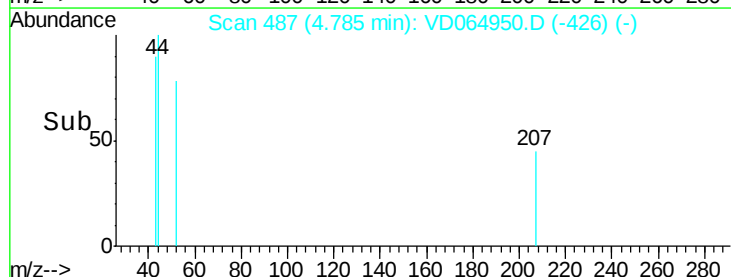
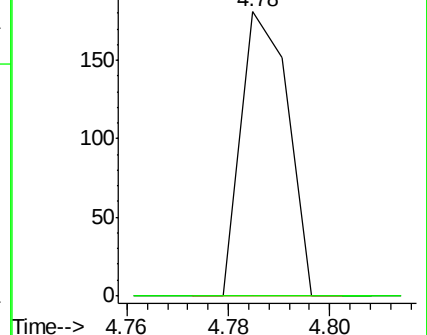
43 100

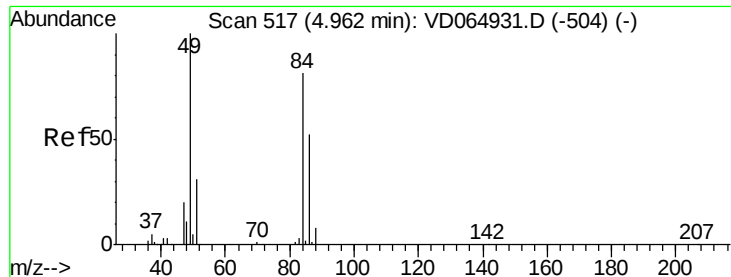
74 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 516

Delta R.T. -0.01 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

20200054-FIELD-DUP-COMP

Tot Ion: 84 Resp: 68

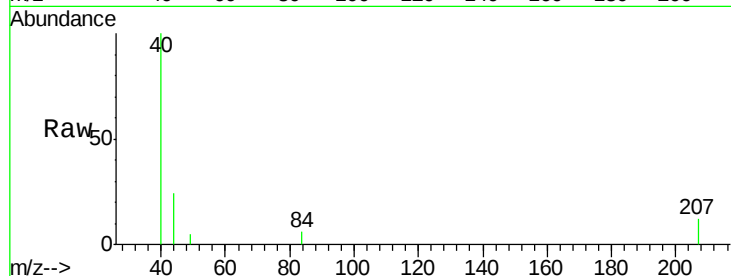
Ion Ratio Lower Upper

84 100

49 91.1 98.4 147.6#

51 0.0 30.8 46.2#

86 0.0 51.0 76.6#

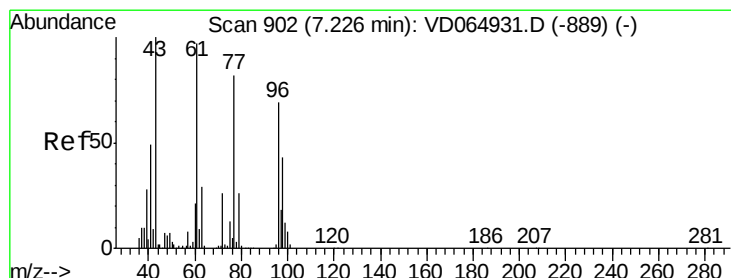
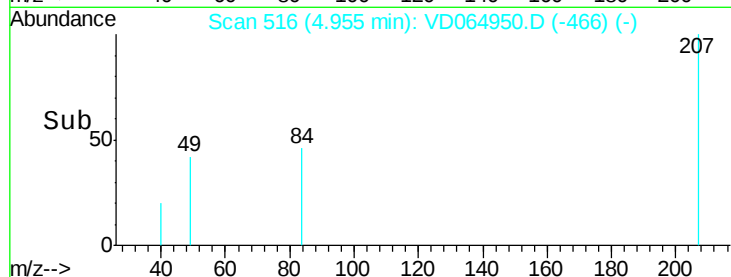
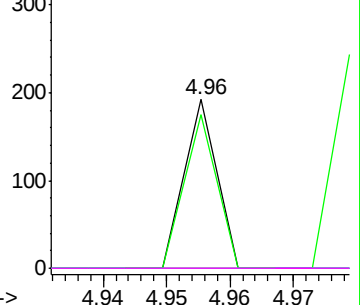


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#25

2-Butanone

Concen: 11.817 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064950.D

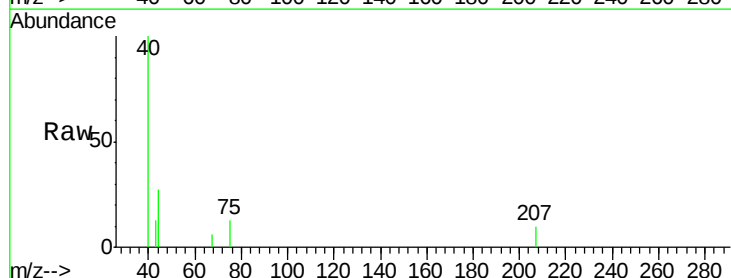
Acq: 24 Jan 2020 18:36

Tgt Ion: 43 Resp: 507

Ion Ratio Lower Upper

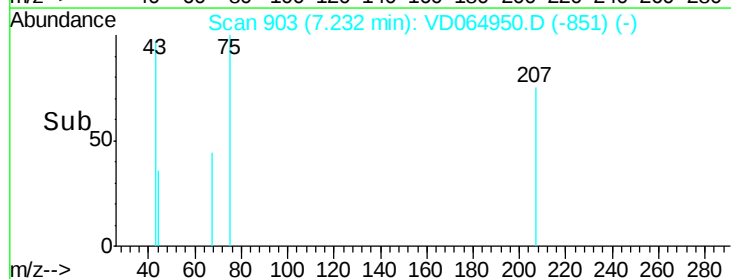
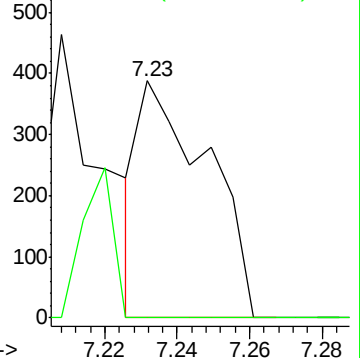
43 100

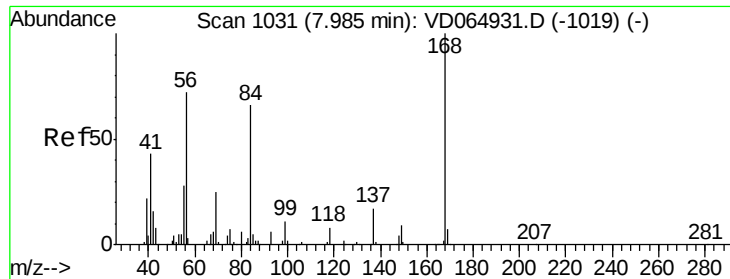
72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

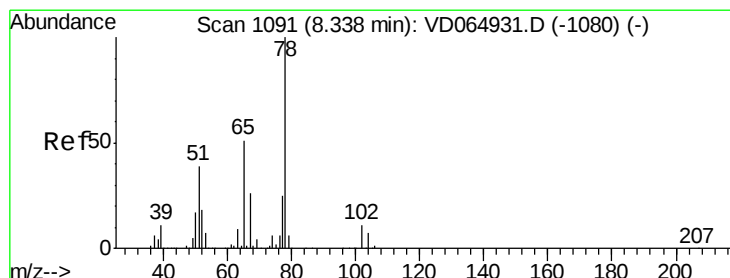
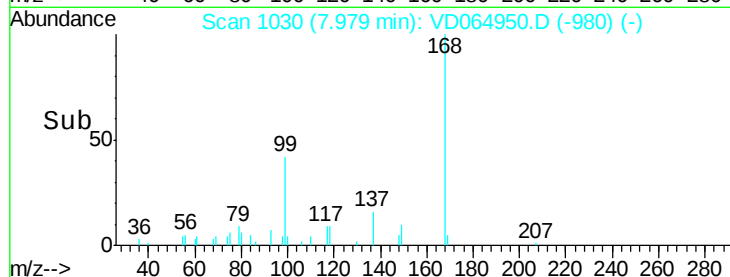
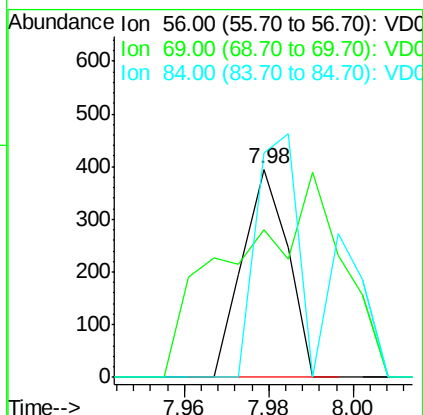
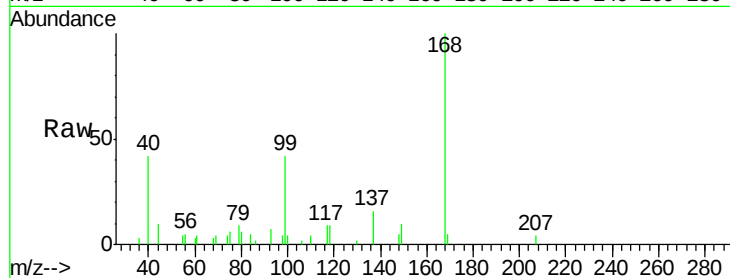




#31
Cyclohexane
Concen: 1.066 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD064950.D
Acq: 24 Jan 2020 18:36

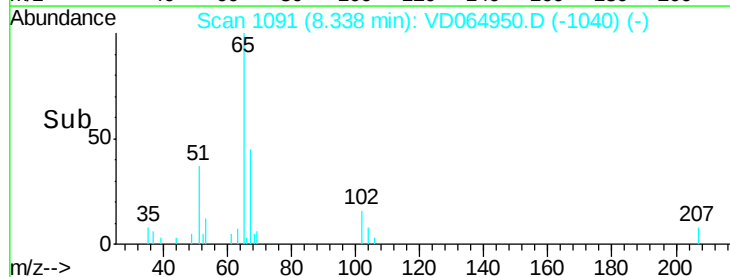
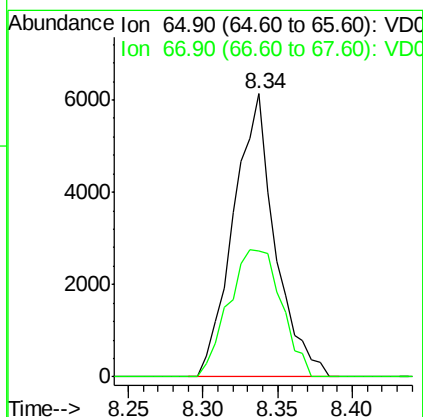
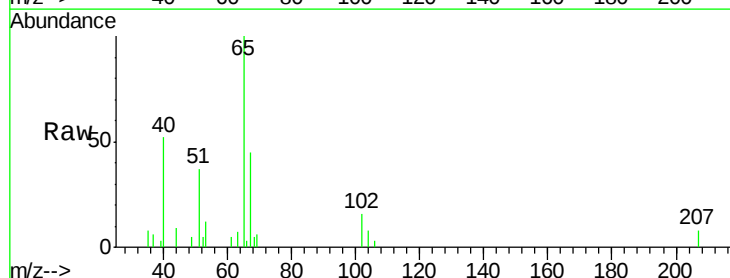
Instrument :
MSVOA_D
ClientSampleId :
20200054-FIELD-DUP-COMP

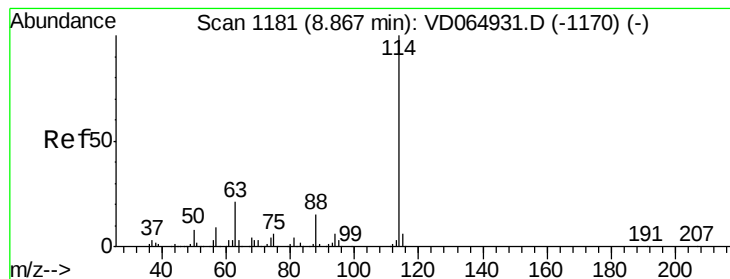
Tot Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
69 23.0 27.9 41.9#
84 107.6 72.8 109.2



#33
1,2-Dichloroethane-d4
Concen: 75.059 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064950.D
Acq: 24 Jan 2020 18:36

Tgt Ion: 65 Resp: 11920
Ion Ratio Lower Upper
65 100
67 56.7 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

20200054-FIELD-DUP-COMP

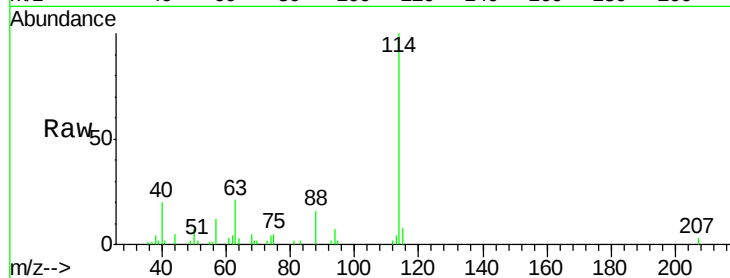
Tot Ion:114 Resp: 25710

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.0

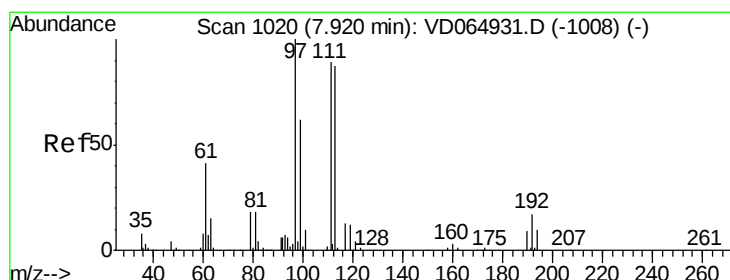
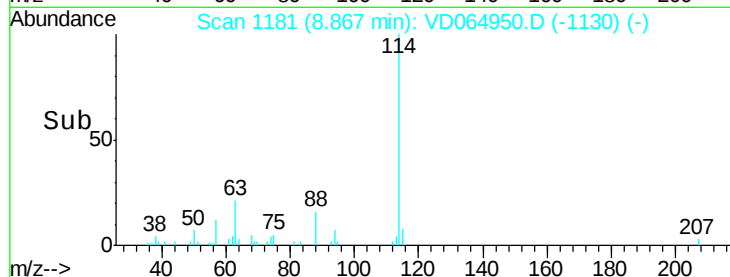
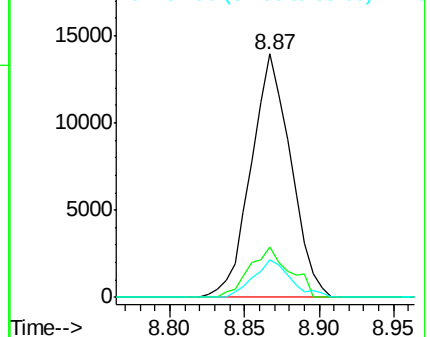
88 15.6 0.0 29.4



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: 63.423 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

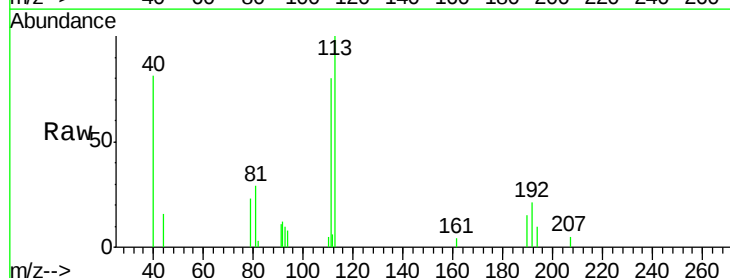
Tgt Ion:113 Resp: 10247

Ion Ratio Lower Upper

113 100

111 99.8 82.4 123.6

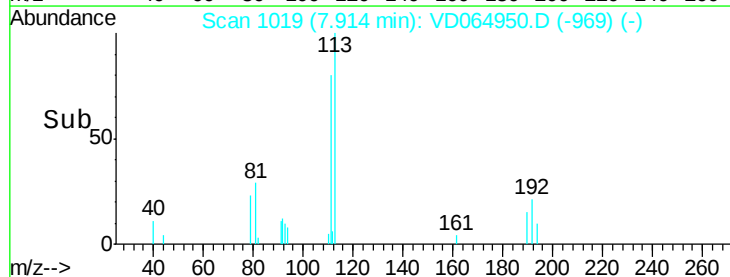
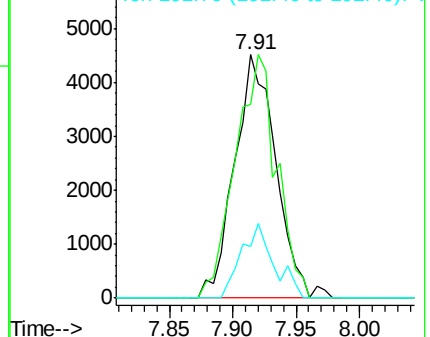
192 24.0 16.9 25.3

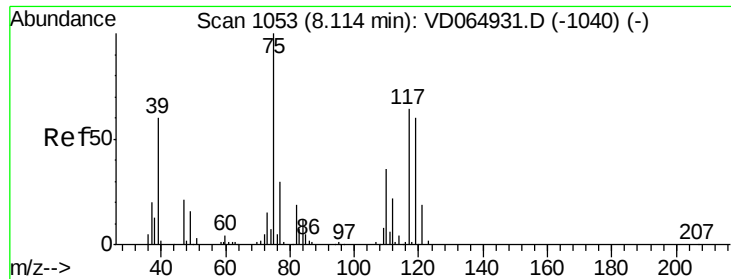


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

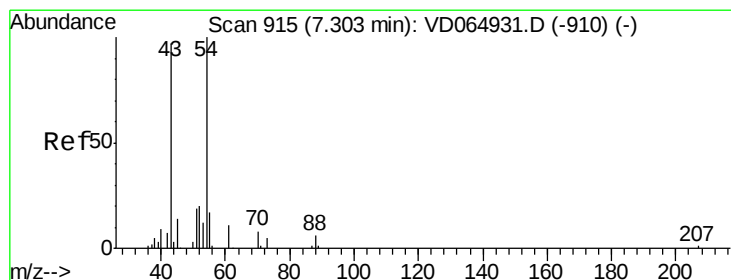
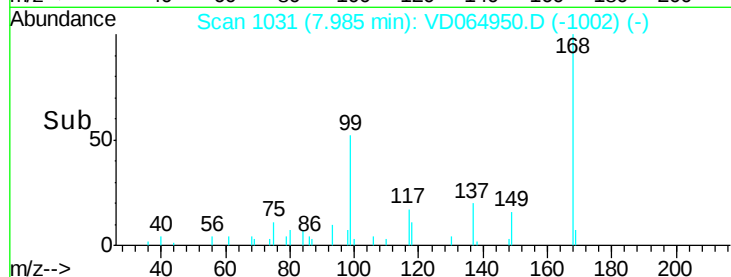
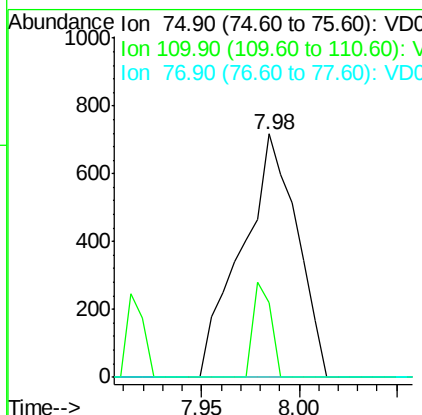
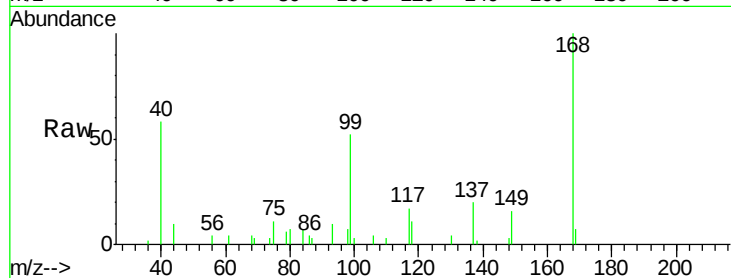




#36
 1,1-Dichloropropene
 Concen: 5.663 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064950.D
 Acq: 24 Jan 2020 18:36

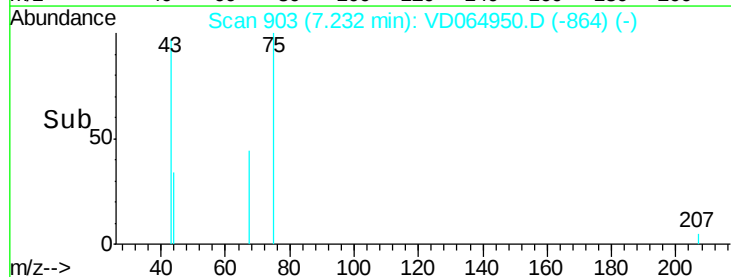
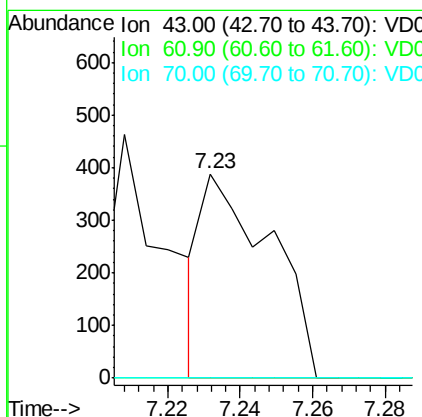
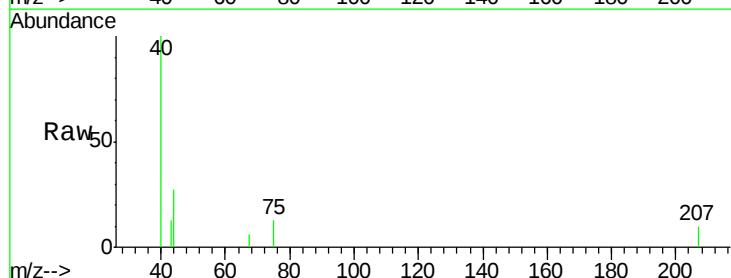
Instrument :
 MSVOA_D
 ClientSampleId :
 20200054-FIELD-DUP-COMP

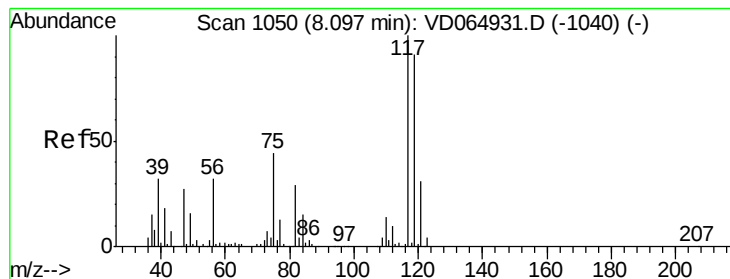
Tot Ion: 75 Resp: 1404
 Ion Ratio Lower Upper
 75 100
 110 12.5 17.3 52.0#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 4.951 ug/l
 RT: 7.23 min Scan# 903
 Delta R.T. -0.07 min
 Lab File: VD064950.D
 Acq: 24 Jan 2020 18:36

Tgt Ion: 43 Resp: 507
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.0 16.4#
 70 0.0 7.5 11.3#





#38

Carbon Tetrachloride

Concen: 6.560 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

20200054-FIELD-DUP-COMP

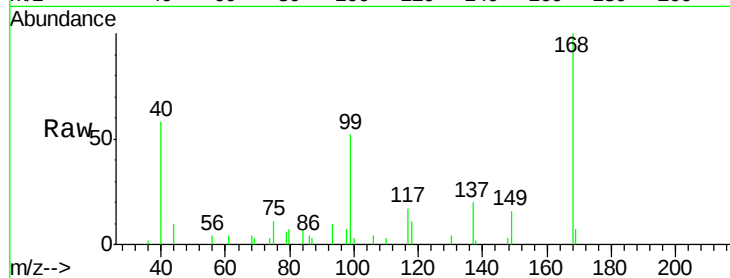
Tot Ion:117 Resp: 1719

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

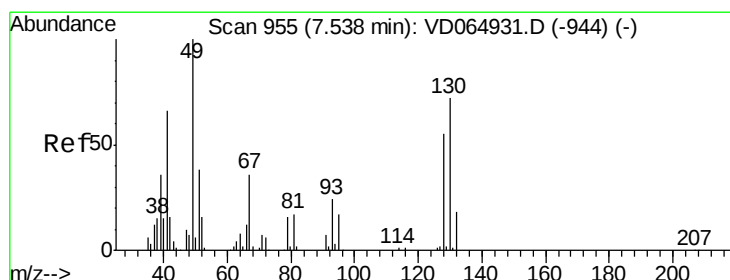
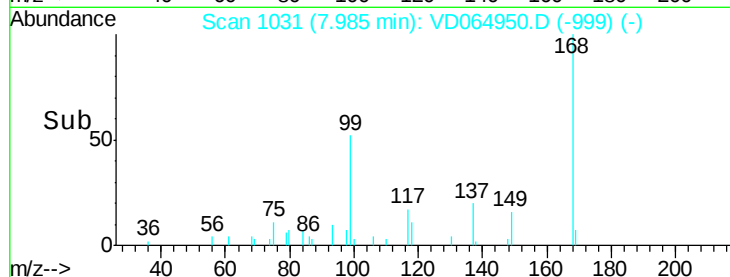
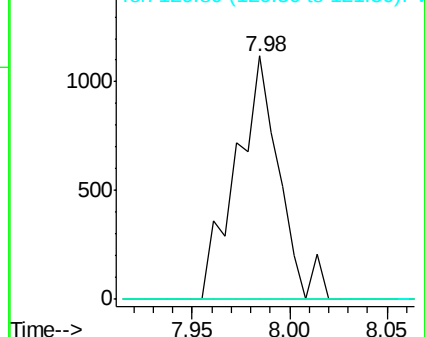
121 0.0 24.4 36.6#



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



#41

Methacrylonitrile

Concen: 2.538 ug/l

RT: 7.60 min Scan# 965

Delta R.T. 0.06 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Tgt Ion: 41 Resp: 140

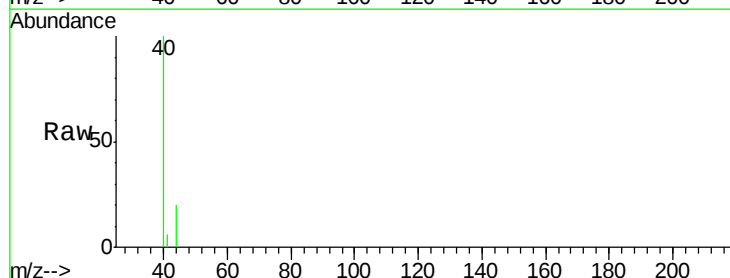
Ion Ratio Lower Upper

41 100

39 47.9 49.3 73.9#

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

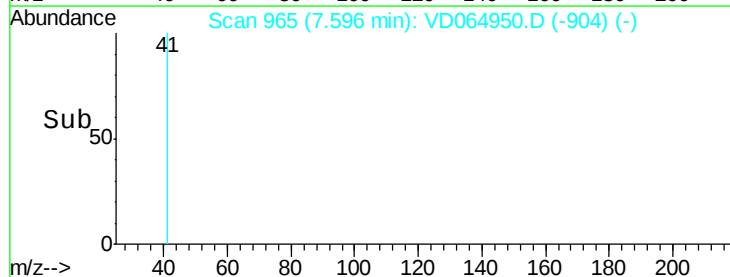
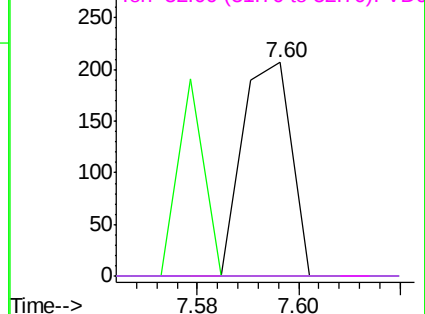


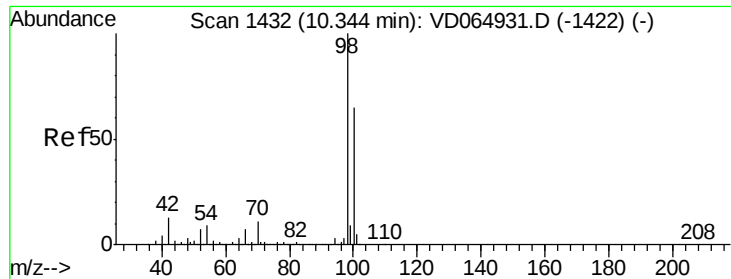
Abundance Ion 41.00 (40.70 to 41.70): VDC

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





#50

Toluene-d8

Concen: 45.550 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

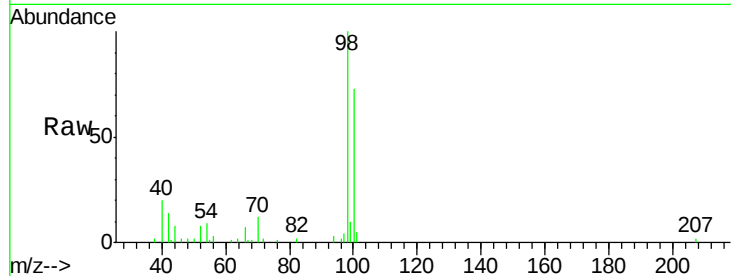
20200054-FIELD-DUP-COMP

Tot Ion: 98 Resp: 28404

Ion Ratio Lower Upper

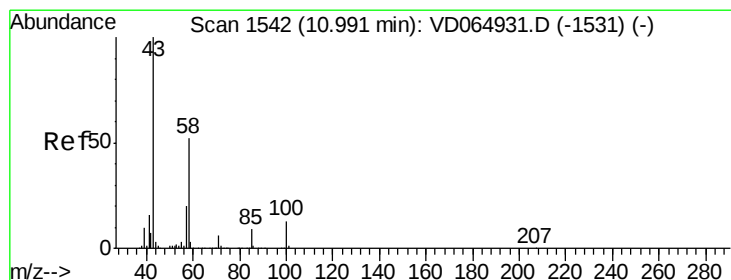
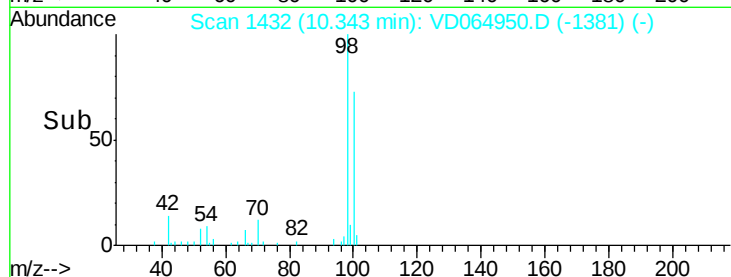
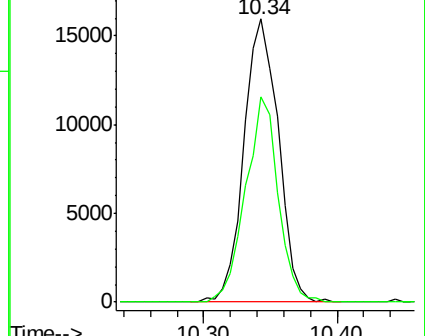
98 100

100 68.5 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#59

2-Hexanone

Concen: 2.547 ug/l

RT: 11.00 min Scan# 1543

Delta R.T. 0.01 min

Lab File: VD064950.D

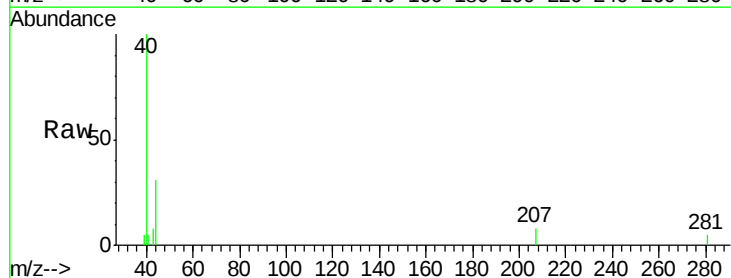
Acq: 24 Jan 2020 18:36

Tgt Ion: 43 Resp: 171

Ion Ratio Lower Upper

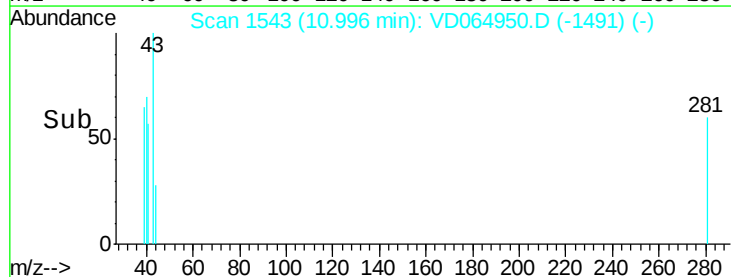
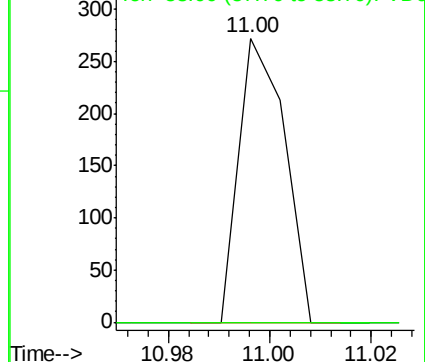
43 100

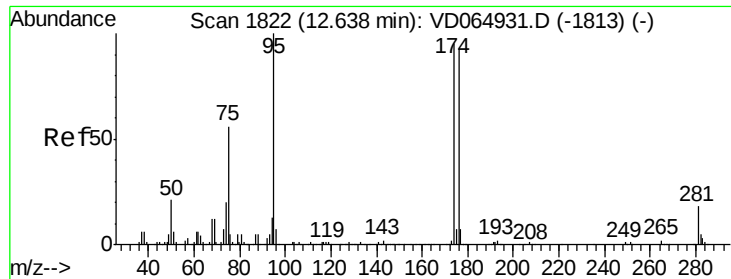
58 0.0 26.5 79.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

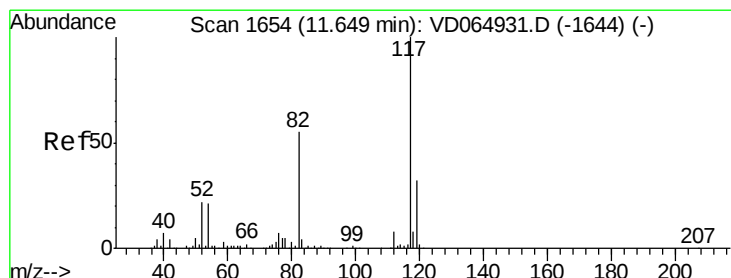
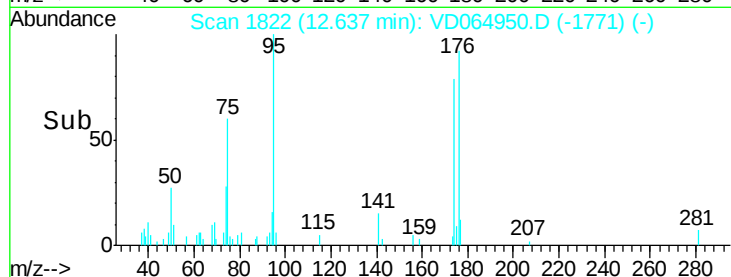
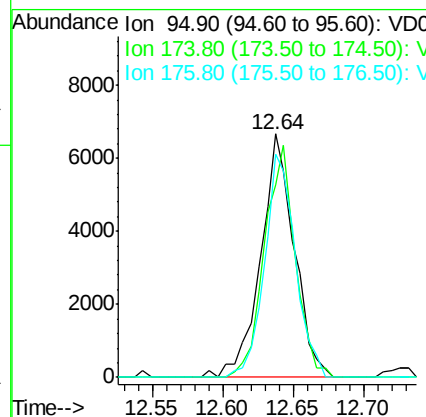
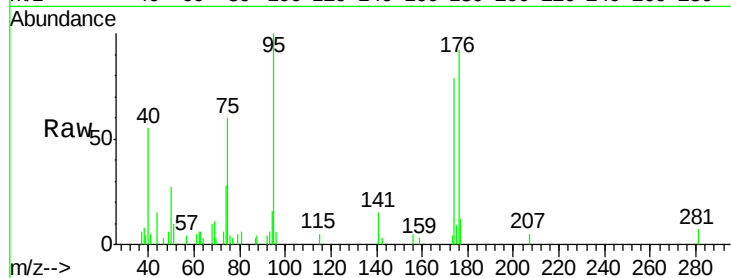




#62
4-Bromofluorobenzene
Concen: 58.408 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD064950.D
Acq: 24 Jan 2020 18:36

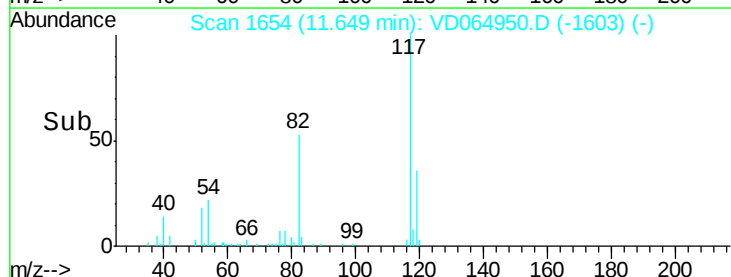
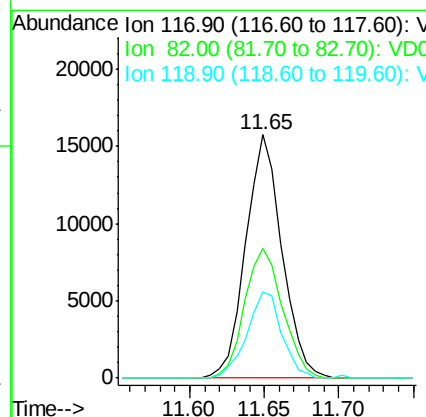
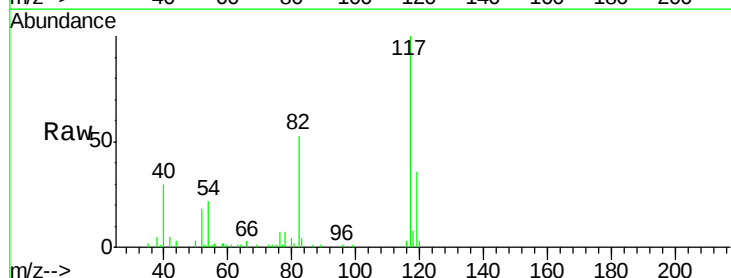
Instrument :
MSVOA_D
ClientSampleId :
20200054-FIELD-DUP-COMP

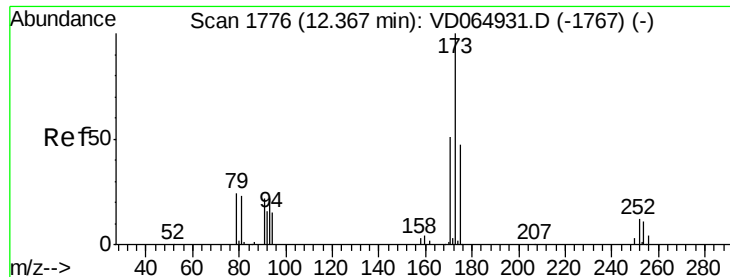
Tot Ion: 95 Resp: 11146
Ion Ratio Lower Upper
95 100
174 87.6 0.0 186.8
176 84.3 0.0 183.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064950.D
Acq: 24 Jan 2020 18:36

Tgt Ion: 117 Resp: 26468
Ion Ratio Lower Upper
117 100
82 53.0 43.6 65.4
119 35.6 25.2 37.8





#71

Bromoform

Concen: 1.940 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

20200054-FIELD-DUP-COMP

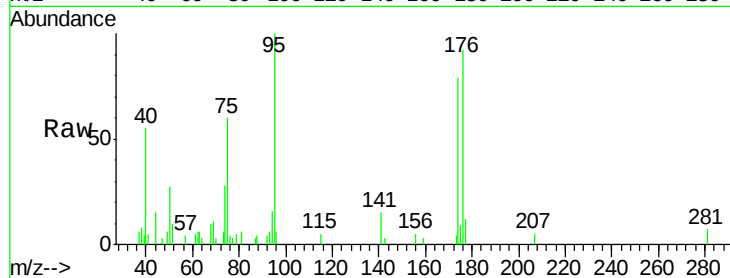
Tot Ion:173 Resp: 218

Ion Ratio Lower Upper

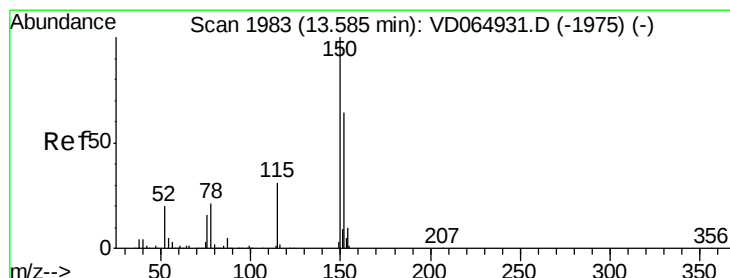
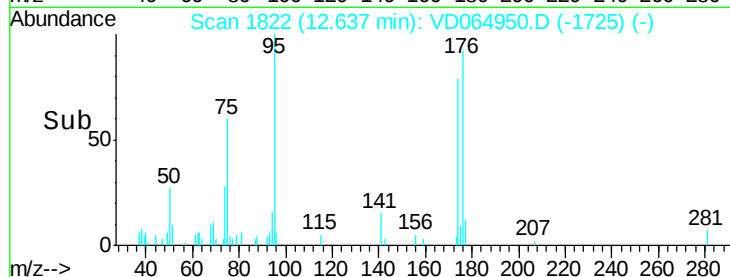
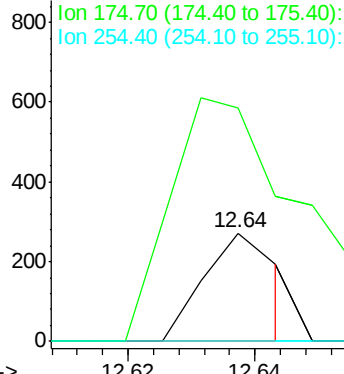
173 100

175 301.4 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: VD064950.D

Acq: 24 Jan 2020 18:36

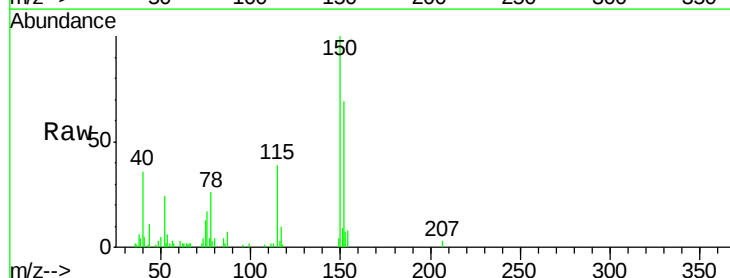
Tgt Ion:152 Resp: 14382

Ion Ratio Lower Upper

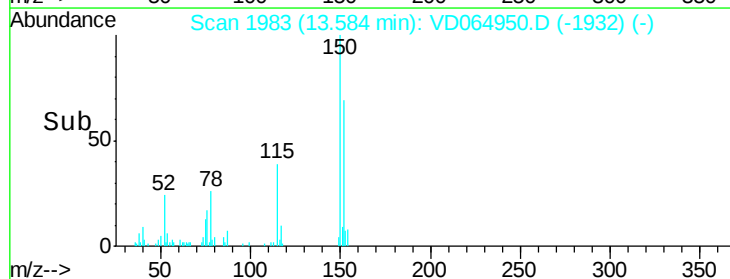
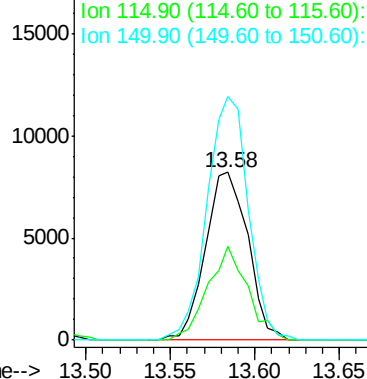
152 100

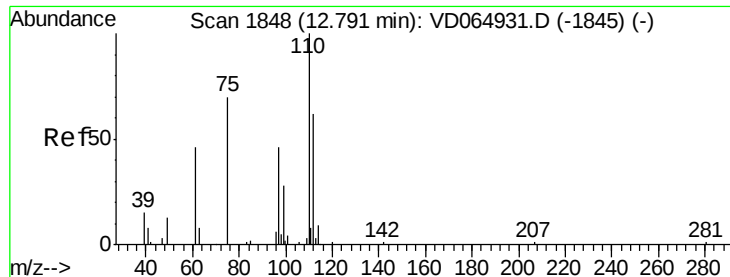
115 52.6 28.1 84.4

150 141.2 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: 51.654 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

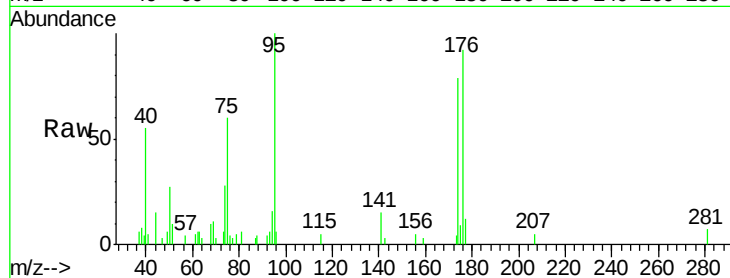
20200054-FIELD-DUP-COMP

Tot Ion: 75 Resp: 6166

Ion Ratio Lower Upper

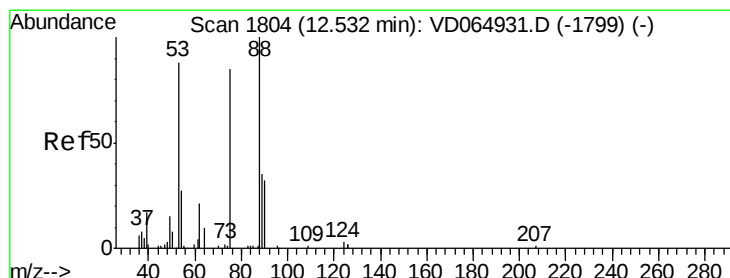
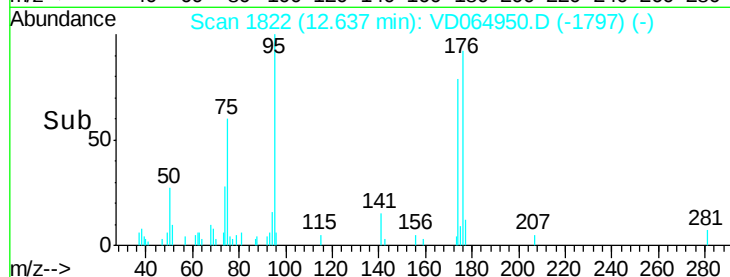
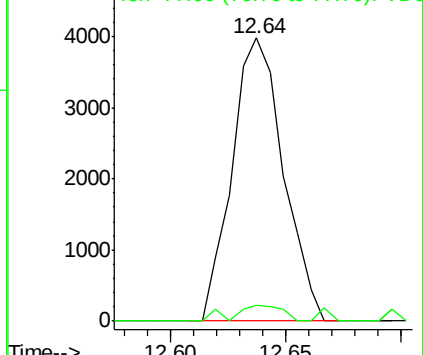
75 100

77 5.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 110.293 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

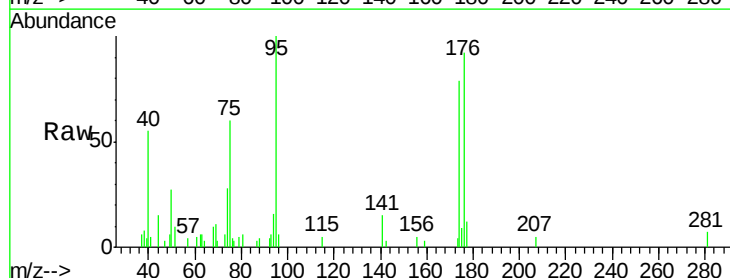
Tgt Ion: 75 Resp: 6166

Ion Ratio Lower Upper

75 100

53 0.9 81.0 121.4#

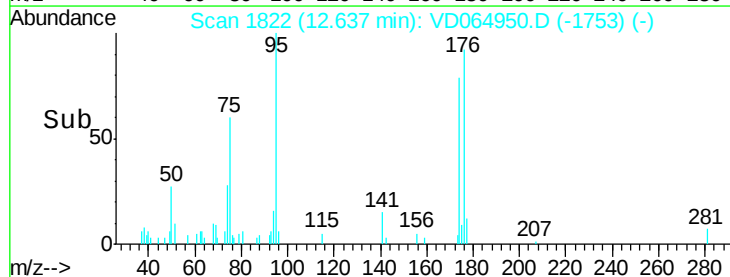
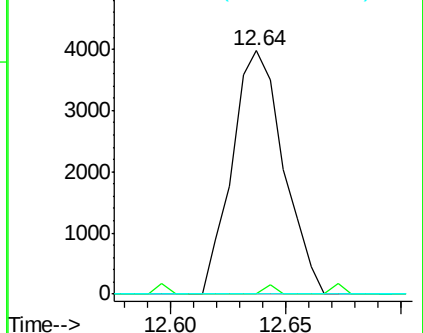
89 0.0 36.2 54.4#

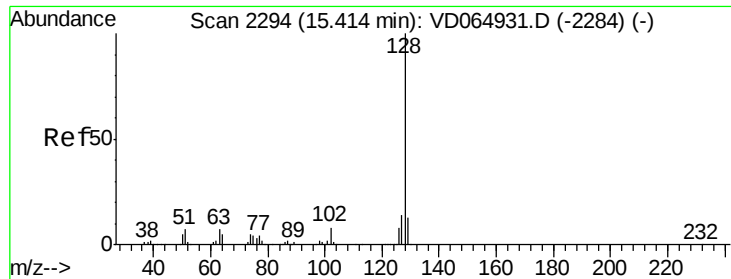


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 2.419 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064950.D

Acq: 24 Jan 2020 18:36

Instrument :

MSVOA_D

ClientSampleId :

20200054-FIELD-DUP-COMP

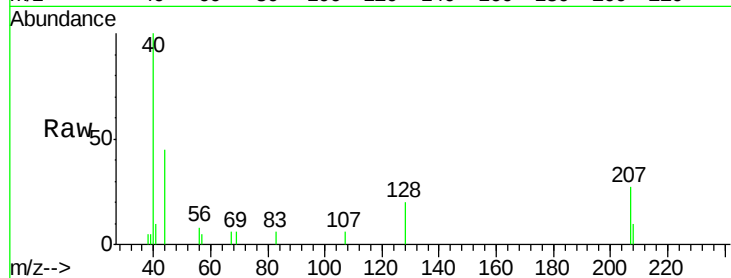
Tot Ion:128 Resp: 1058

Ion Ratio Lower Upper

128 100

127 11.8 10.6 15.8

129 5.9 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

