

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090920\
 Data File : VD066587.D
 Acq On : 09 Sep 2020 17:04
 Operator : VA/SY
 Sample : L3894-12
 Misc : 7.68G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AL-FALAH-6

Quant Time: Sep 10 01:41:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	342645	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	644370	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	602255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	265436	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	247651	59.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.48%	
35) Dibromofluoromethane	7.91	113	228575	52.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.16%	
50) Toluene-d8	10.34	98	794617	51.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.28%	
62) 4-Bromofluorobenzene	12.63	95	263394	51.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.26%	

Target Compounds

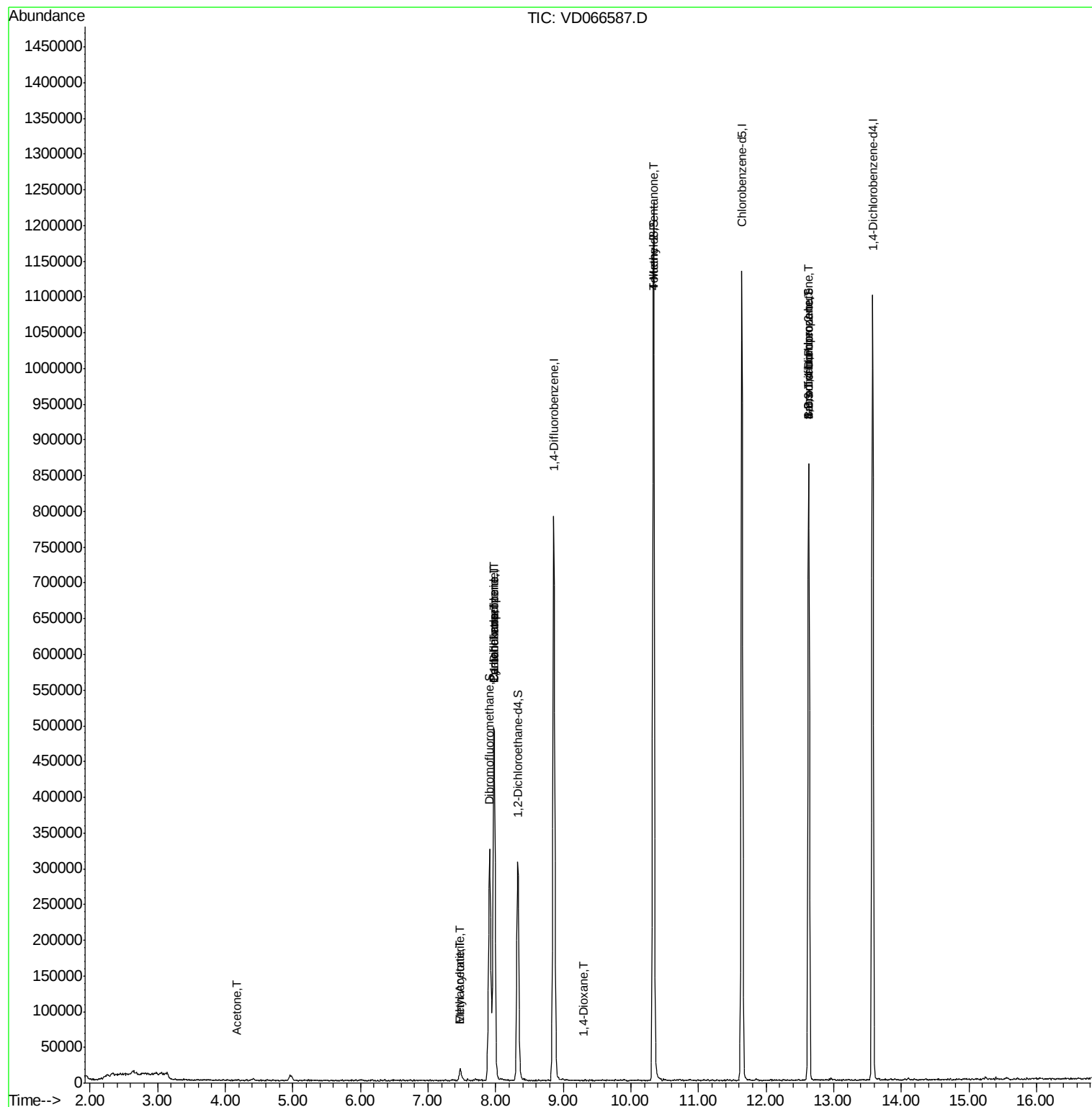
						Qvalue
2) Dichlorodifluoromethane	1.99	85	146	Below Cal	#	46
5) Bromomethane	2.76	94	496	Below Cal	#	9
11) Tert butyl alcohol	5.22	59	90	Below Cal	#	74
16) Acetone	4.17	43	1326	1.738	ug/l #	50
20) Methylene Chloride	4.97	84	4866	Below Cal	#	85
31) Cyclohexane	7.98	56	10246	1.515	ug/l #	52
36) 1,1-Dichloropropene	7.98	75	31457	4.691	ug/l #	50
37) Ethyl Acetate	7.48	43	12924	4.840	ug/l #	68
38) Carbon Tetrachloride	7.97	117	37174	5.245	ug/l #	17
41) Methacrylonitrile	7.47	41	8464	6.548	ug/l #	44
49) 1,4-Dioxane	9.30	88	59	2.110	ug/l #	23
51) 4-Methyl-2-Pentanone	10.34	43	4326	1.676	ug/l #	1
71) Bromoform	12.63	173	2478	1.036	ug/l #	1
76) 1,2,3-Trichloropropane	12.63	75	153873	60.277	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	153873	140.725	ug/l #	7

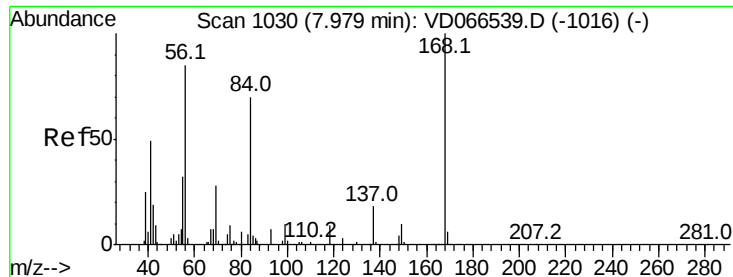
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

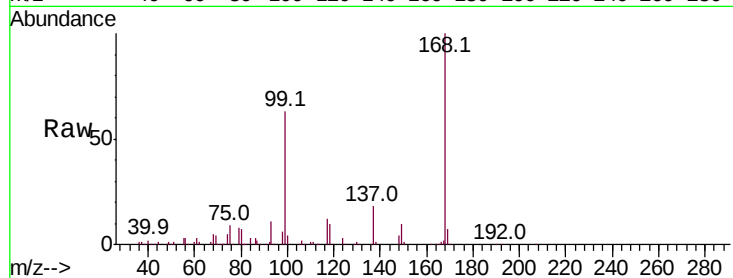
AL-FALAH-6

Tot Ion:168 Resp: 342645

Ion Ratio Lower Upper

168 100

99 62.7 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

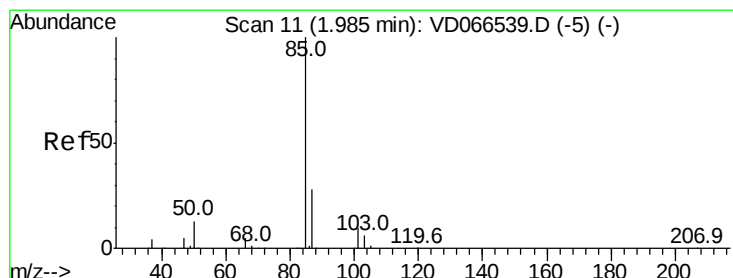
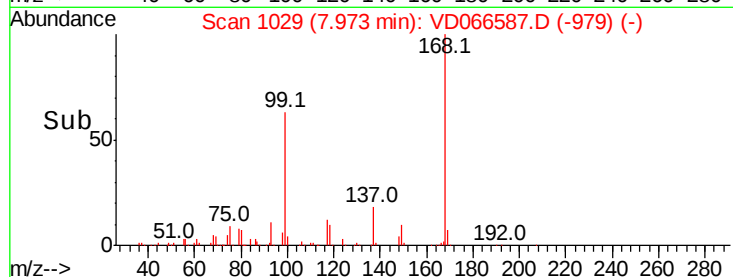
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066587.D

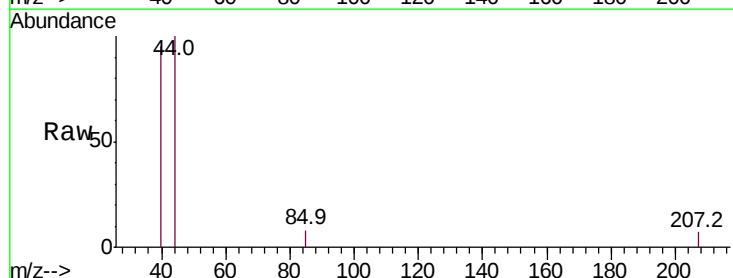
Acq: 09 Sep 2020 17:04

Tgt Ion: 85 Resp: 146

Ion Ratio Lower Upper

85 100

87 0.0 14.2 42.6#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

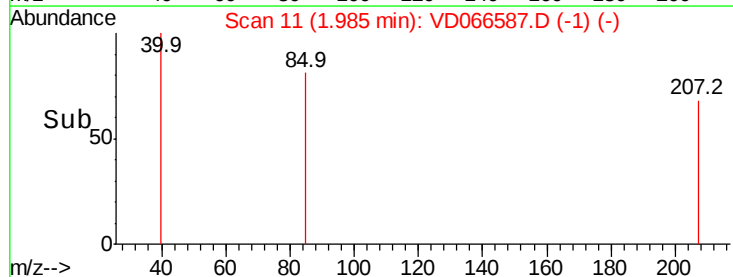
300

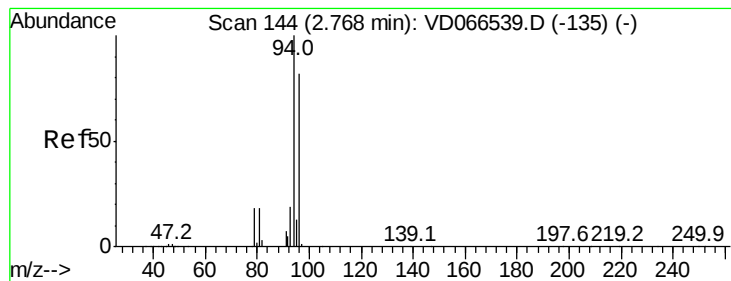
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

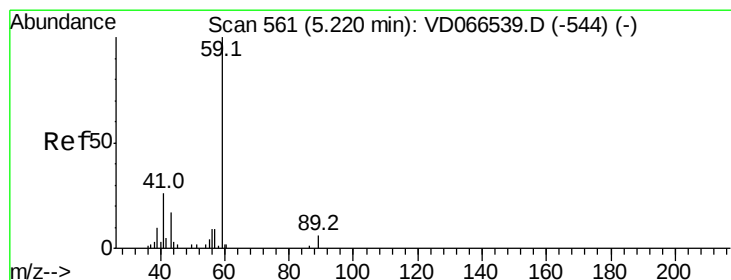
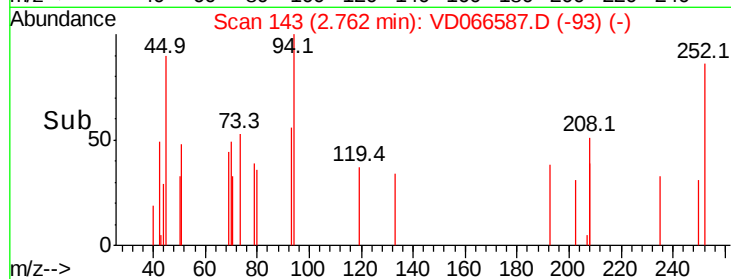
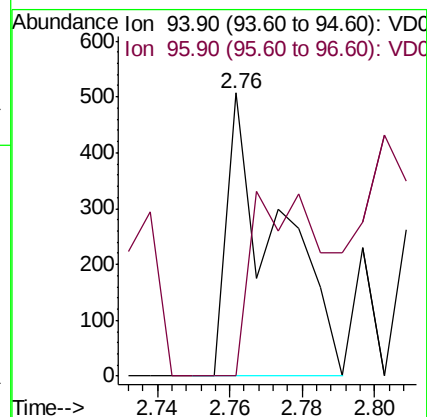
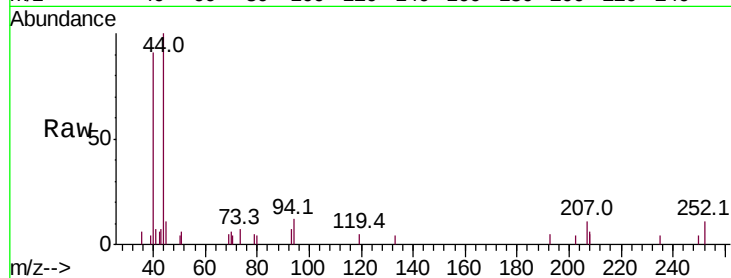
AL-FALAH-6

Tot Ion: 94 Resp: 496

Ion Ratio Lower Upper

94 100

96 0.0 65.2 97.8#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD066587.D

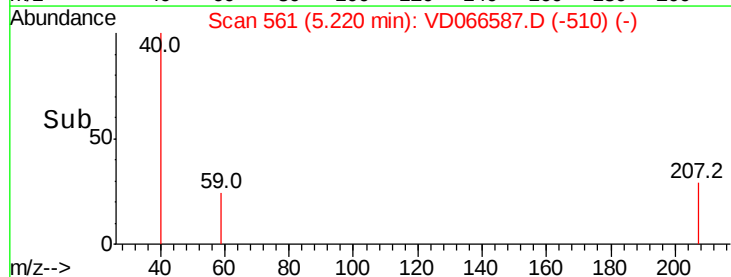
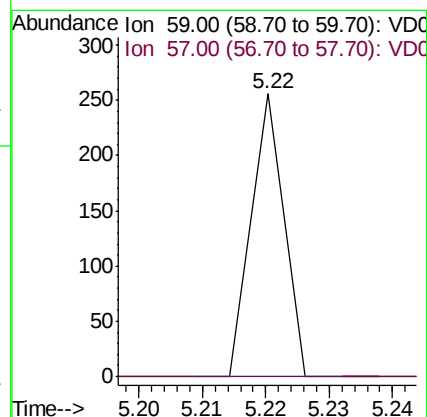
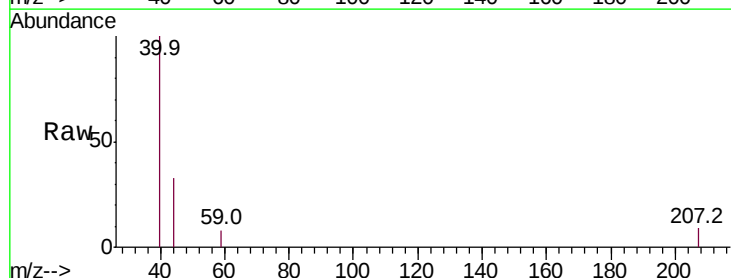
Acq: 09 Sep 2020 17:04

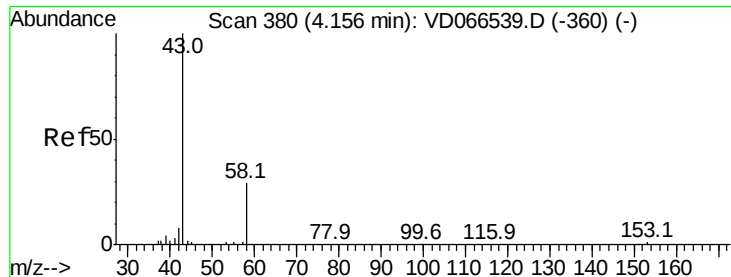
Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#





#16

Acetone

Concen: 1.738 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

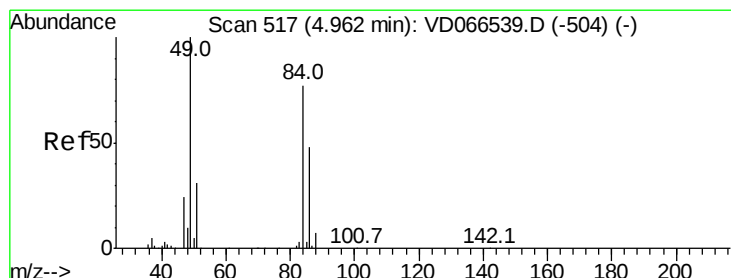
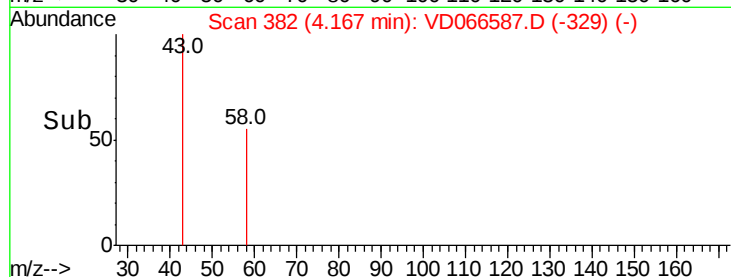
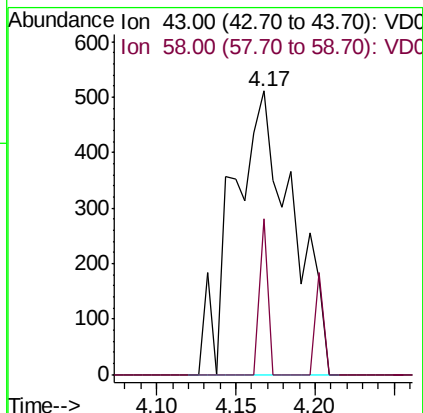
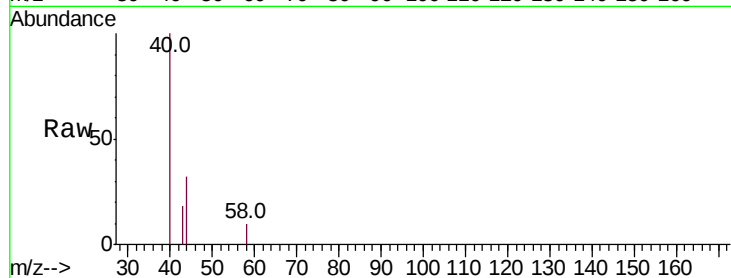
AL-FALAH-6

Tot Ion: 43 Resp: 1326

Ion Ratio Lower Upper

43 100

58 55.0 22.9 34.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Tgt Ion: 84 Resp: 4866

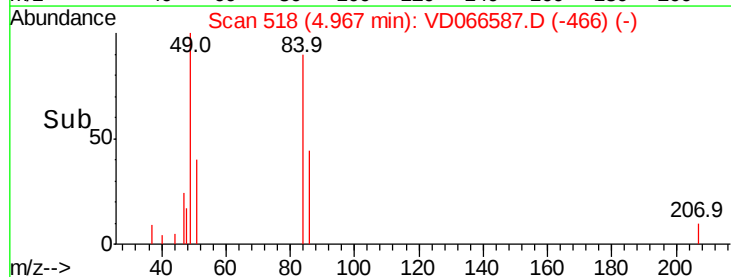
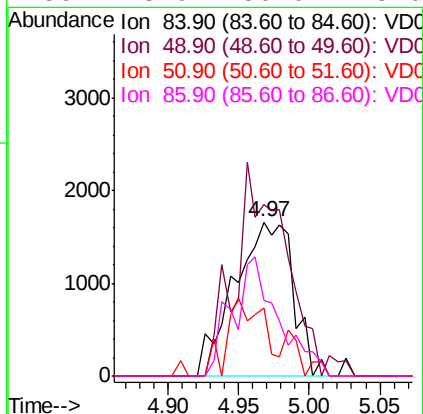
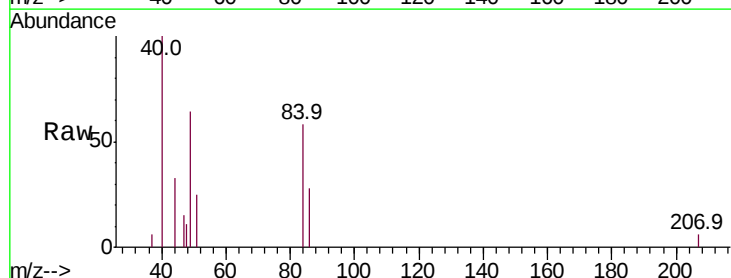
Ion Ratio Lower Upper

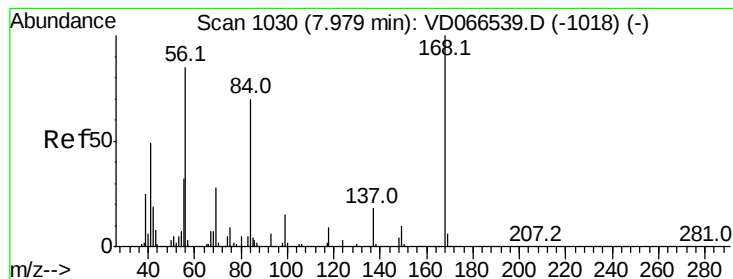
84 100

49 111.0 104.3 156.5

51 44.0 32.2 48.4

86 48.9 50.0 75.0#





#31

Cyclohexane

Concen: 1.515 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

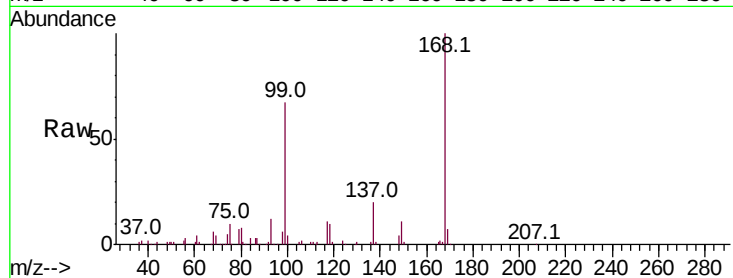
Tot Ion: 56 Resp: 10246

Ion Ratio Lower Upper

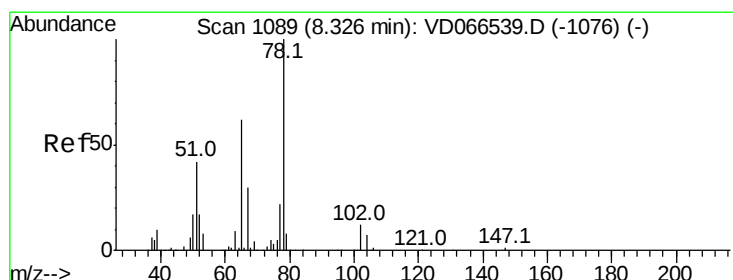
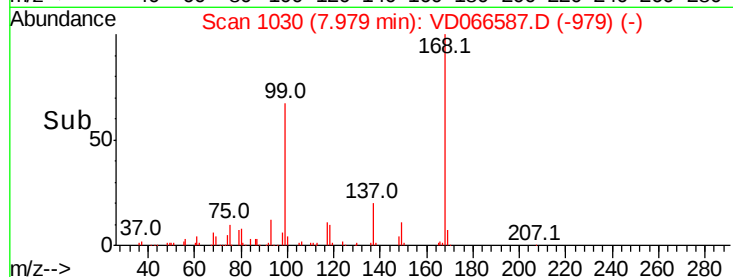
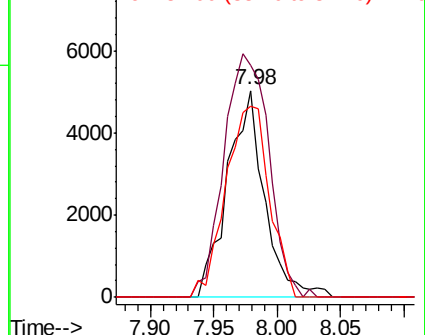
56 100

69 112.1 26.3 39.5#

84 92.7 66.1 99.1



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: 59.737 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VD066587.D

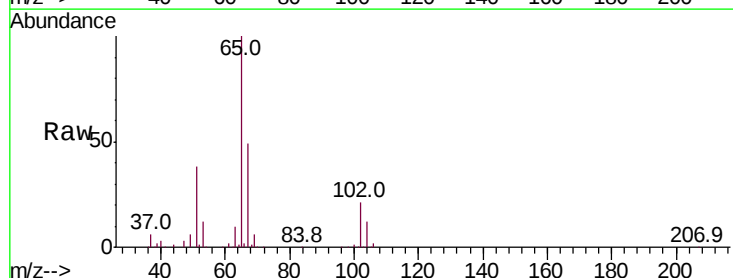
Acq: 09 Sep 2020 17:04

Tgt Ion: 65 Resp: 247651

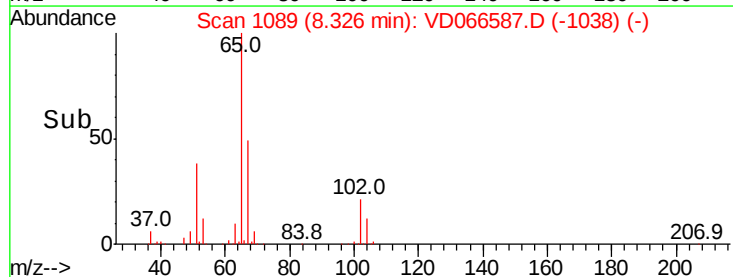
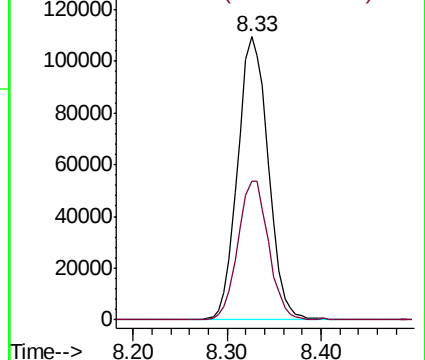
Ion Ratio Lower Upper

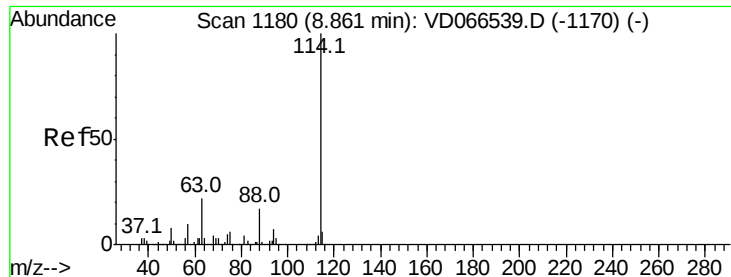
65 100

67 49.2 0.0 102.8



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: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

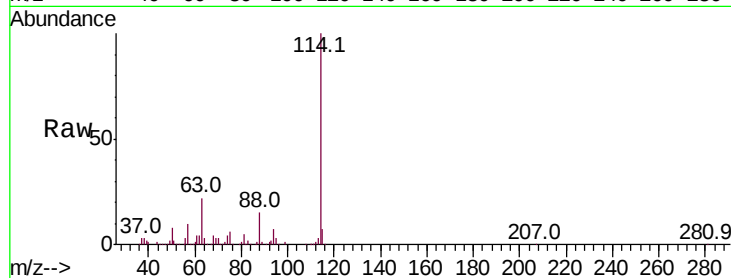
Tot Ion:114 Resp: 644370

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

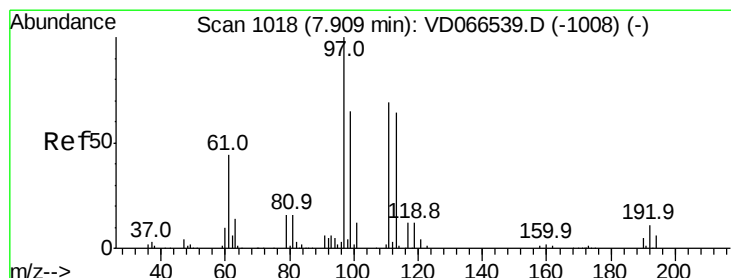
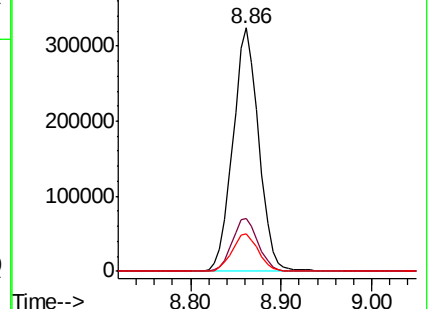
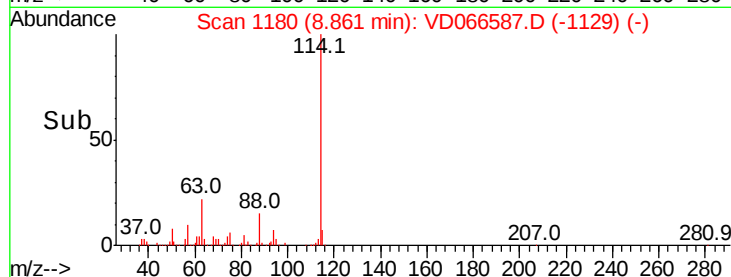
88 15.5 0.0 33.2



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: 52.583 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

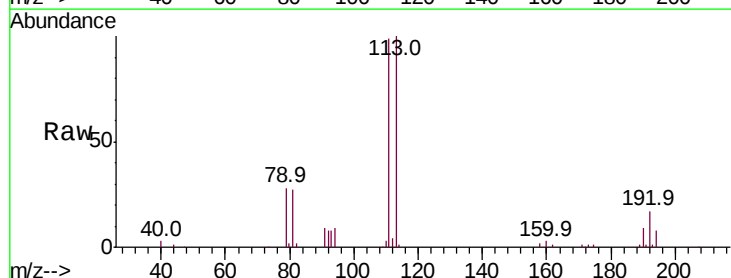
Tgt Ion:113 Resp: 228575

Ion Ratio Lower Upper

113 100

111 99.5 83.2 124.8

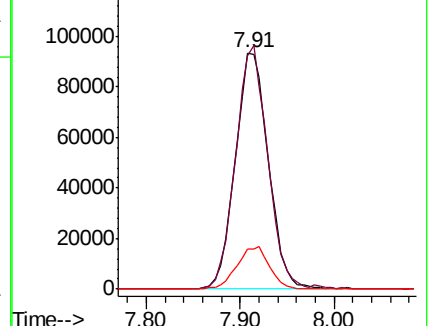
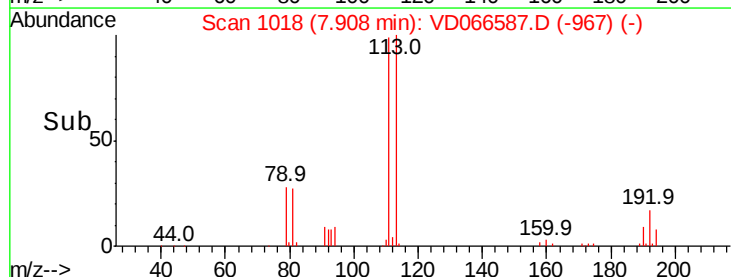
192 17.7 13.7 20.5

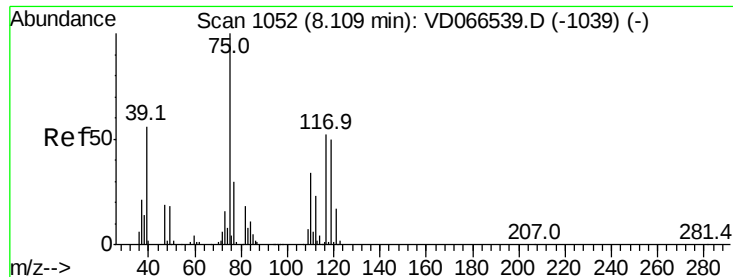


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.691 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

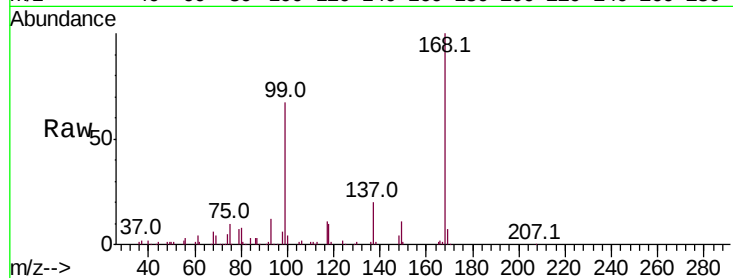
Tot Ion: 75 Resp: 31457

Ion Ratio Lower Upper

75 100

110 9.0 17.3 52.0#

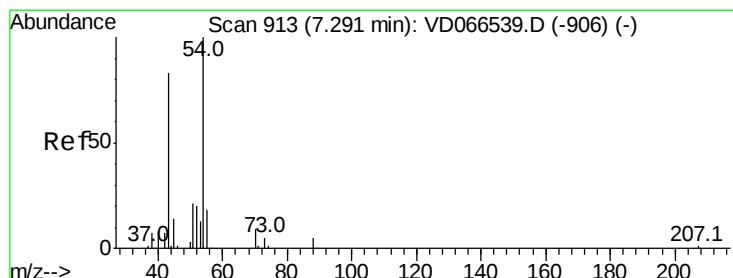
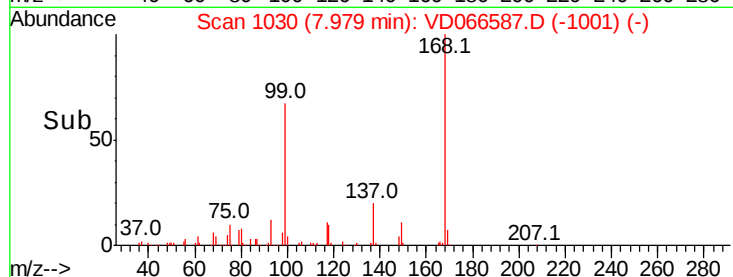
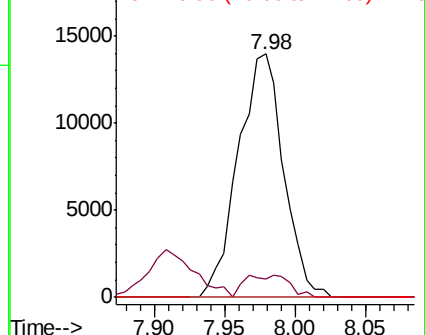
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 4.840 ug/l

RT: 7.48 min Scan# 945

Delta R.T. 0.19 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

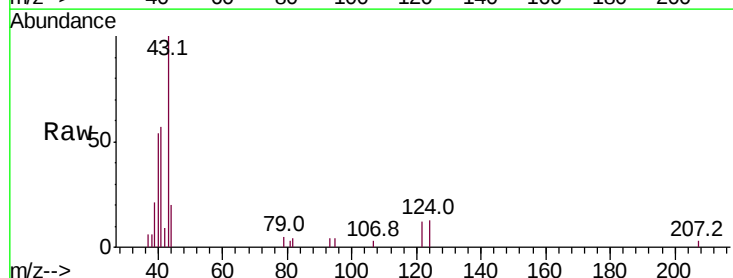
Tgt Ion: 43 Resp: 12924

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

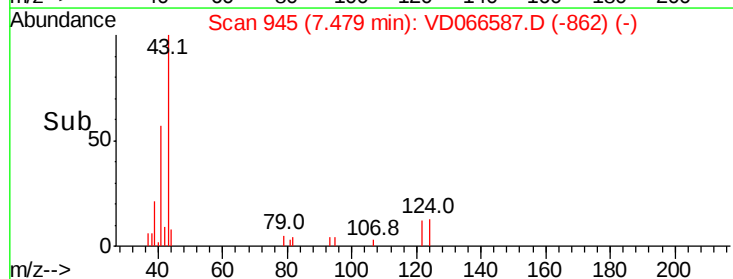
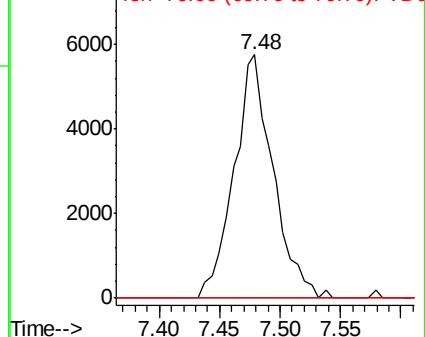
70 0.0 7.9 11.9#

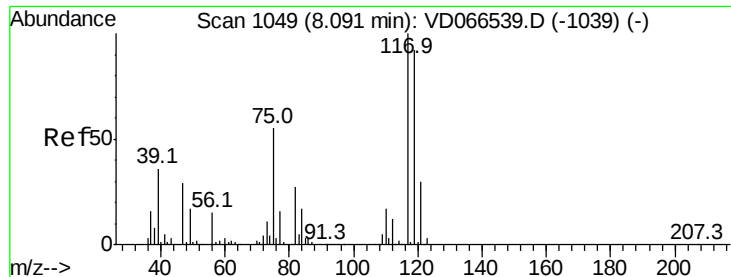


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.245 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

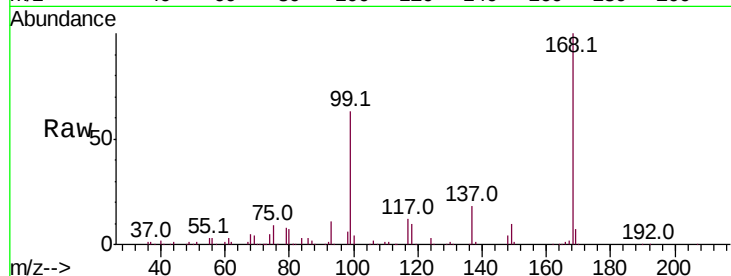
Tot Ion:117 Resp: 37174

Ion Ratio Lower Upper

117 100

119 4.0 73.9 110.9#

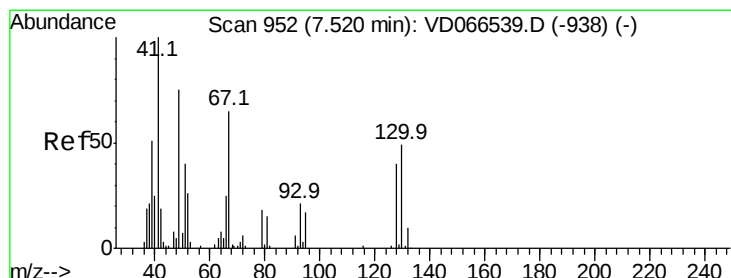
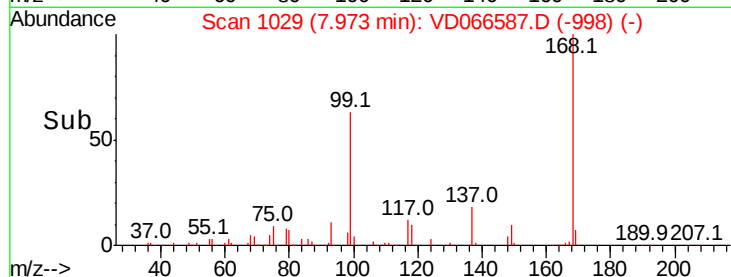
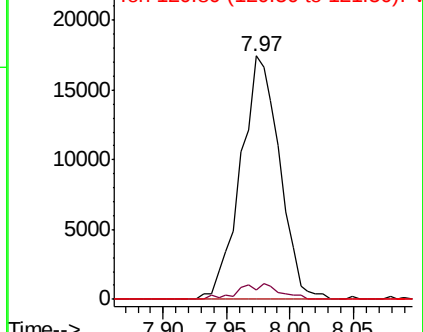
121 0.0 24.1 36.1#



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: 6.548 ug/l

RT: 7.47 min Scan# 944

Delta R.T. -0.05 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Tgt Ion: 41 Resp: 8464

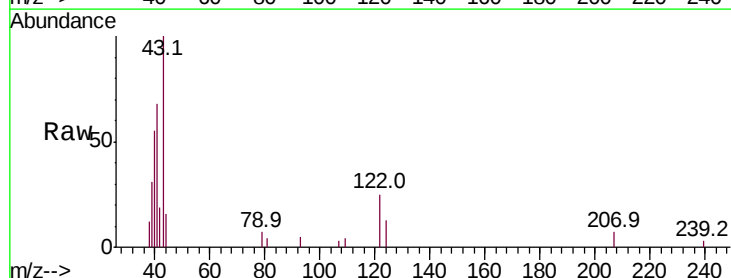
Ion Ratio Lower Upper

41 100

39 50.4 53.6 80.4#

67 0.0 59.2 88.8#

52 0.0 26.8 40.2#

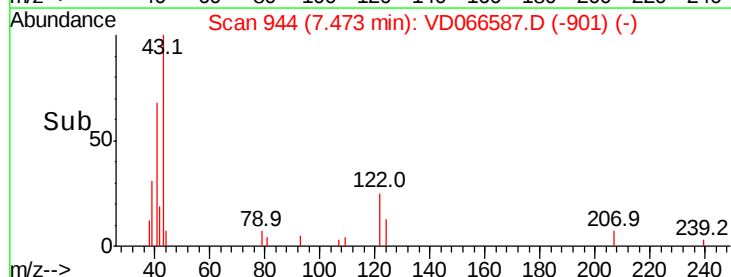
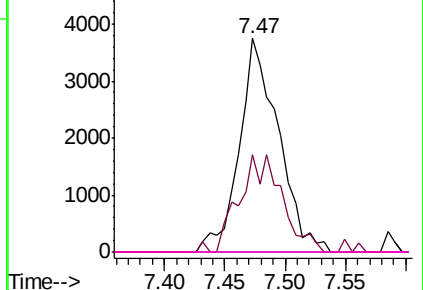


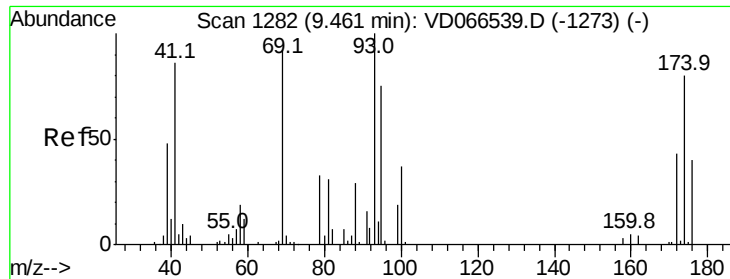
Abundance Ion 41.00 (40.70 to 41.70): VDC

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





#49

1,4-Dioxane

Concen: 2.110 ug/l

RT: 9.30 min Scan# 1255

Delta R.T. -0.16 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

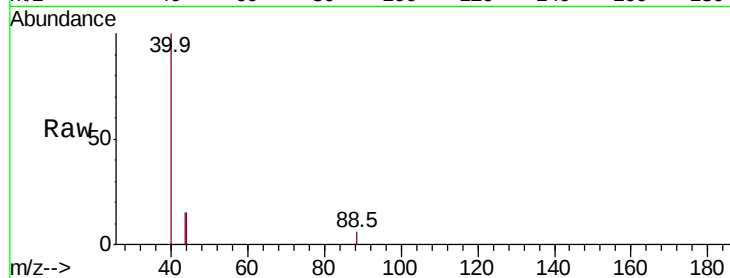
Tot Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 0.0 28.3 42.5#

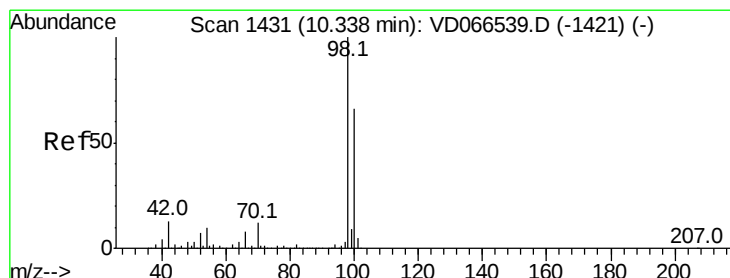
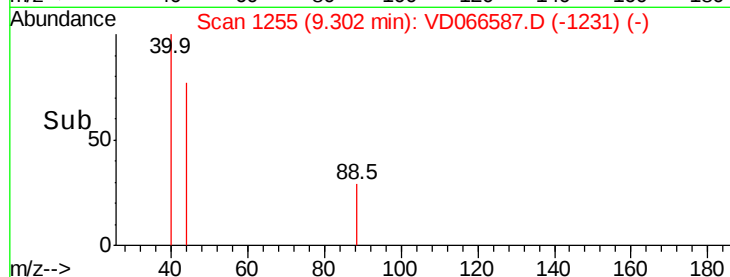
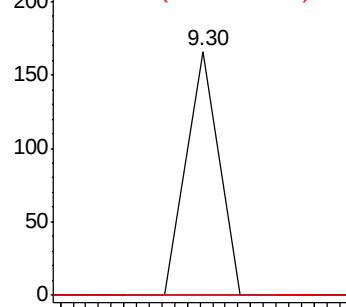
58 0.0 56.1 84.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 51.144 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066587.D

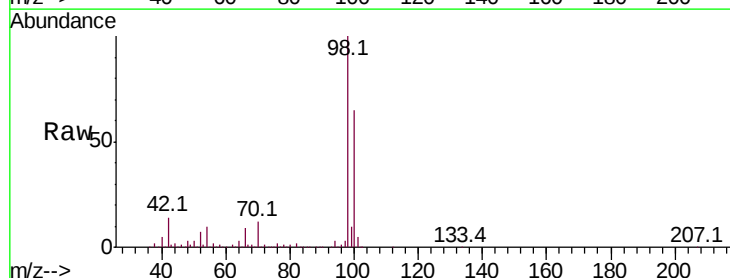
Acq: 09 Sep 2020 17:04

Tgt Ion: 98 Resp: 794617

Ion Ratio Lower Upper

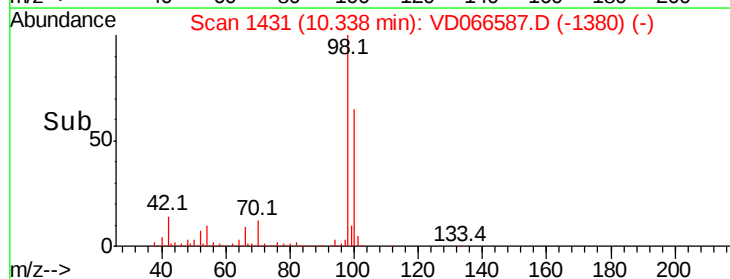
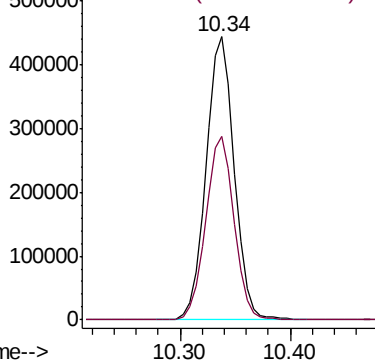
98 100

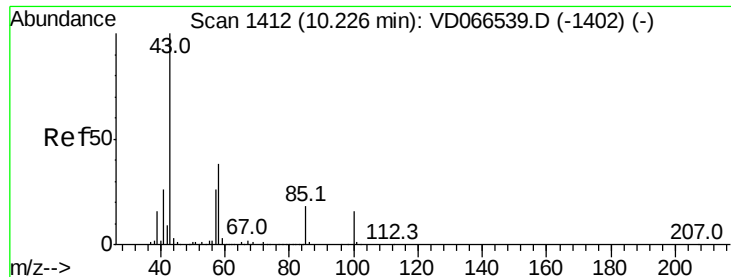
100 65.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.676 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

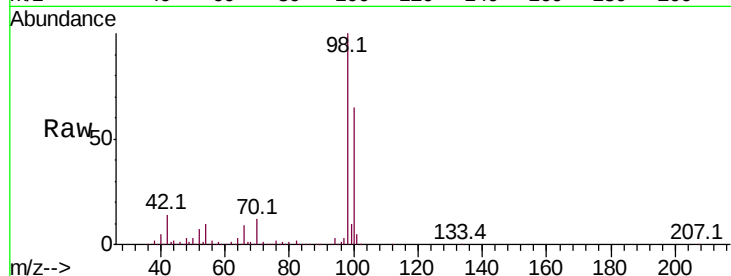
AL-FALAH-6

Tot Ion: 43 Resp: 4326

Ion Ratio Lower Upper

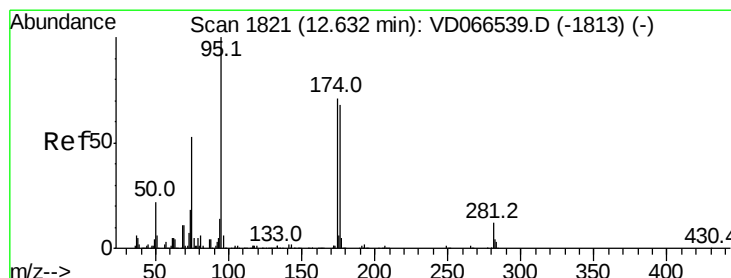
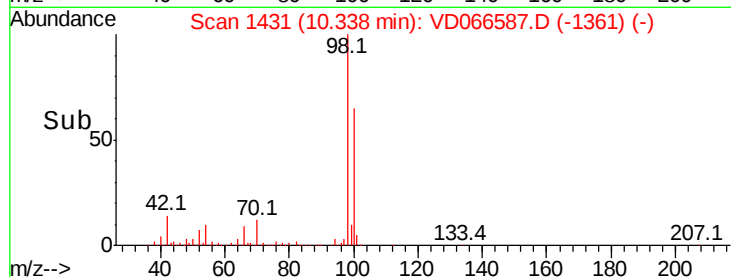
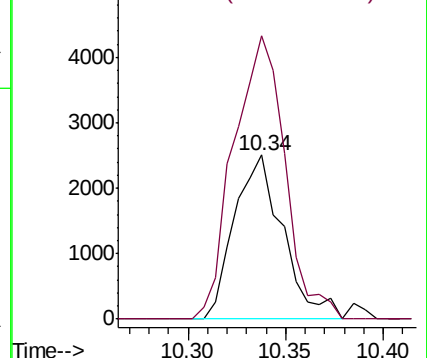
43 100

58 182.4 30.5 45.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.126 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

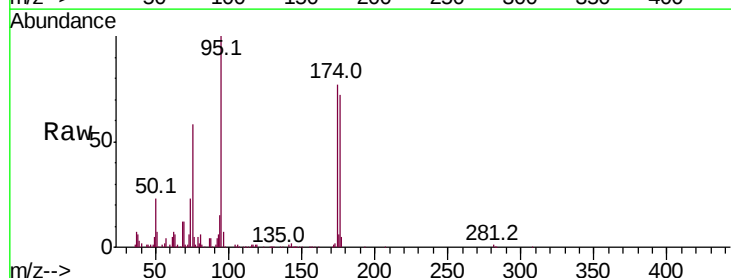
Tgt Ion: 95 Resp: 263394

Ion Ratio Lower Upper

95 100

174 76.4 0.0 155.8

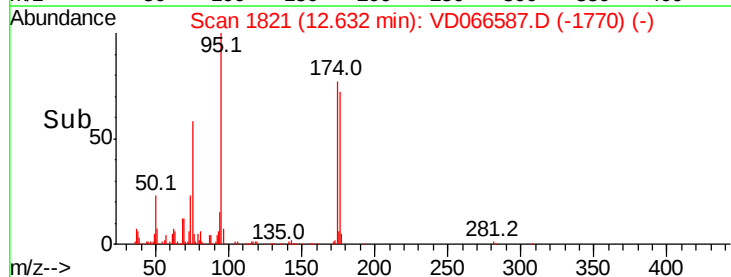
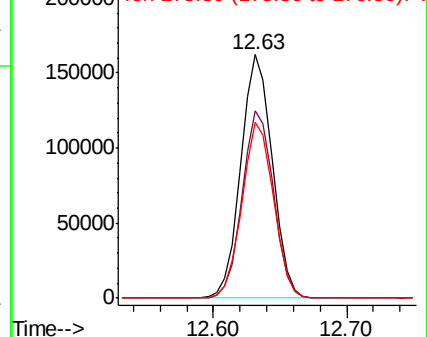
176 72.3 0.0 148.6

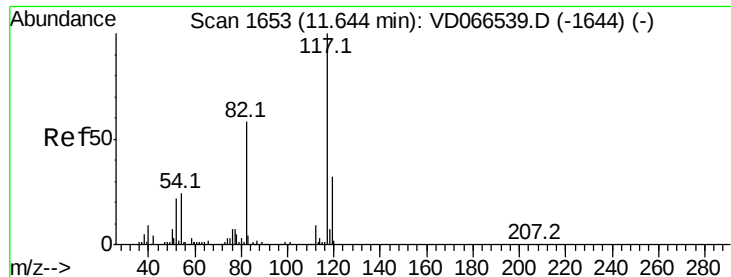


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

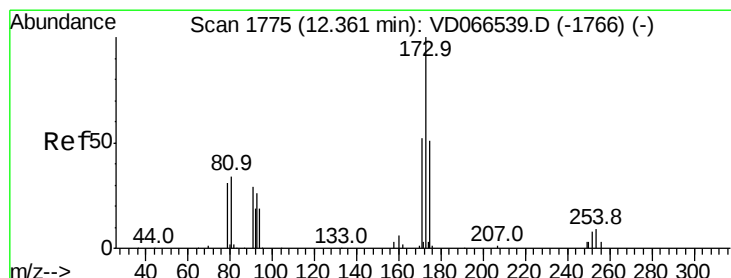
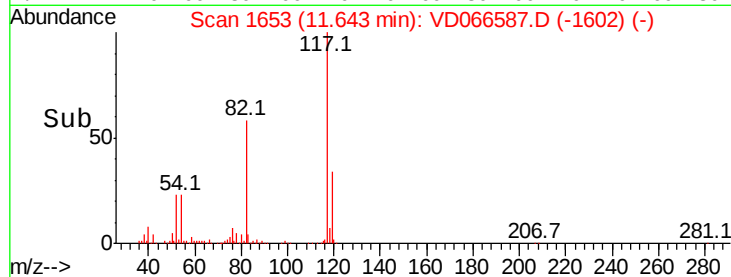
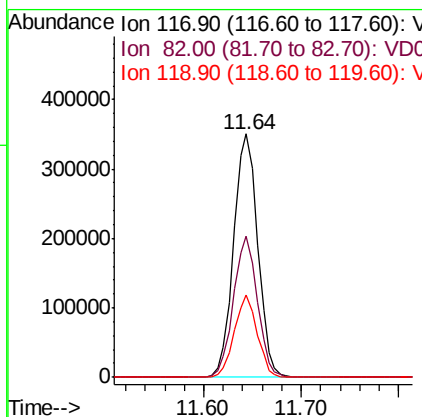
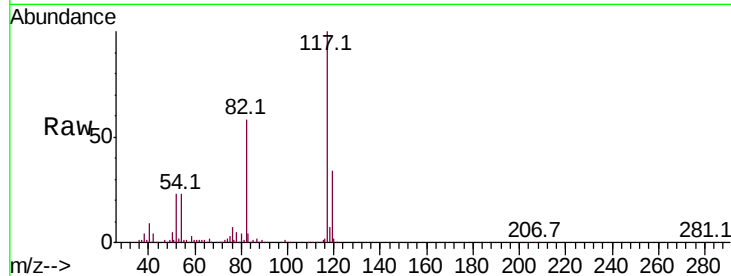




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066587.D
Acq: 09 Sep 2020 17:04

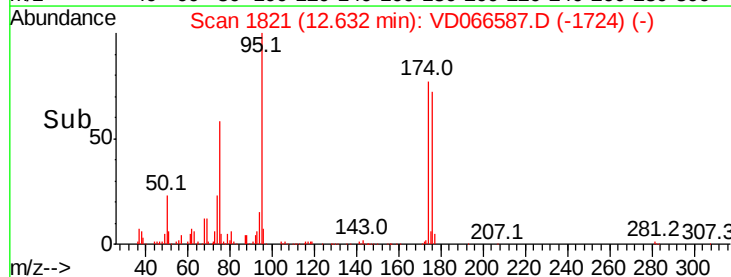
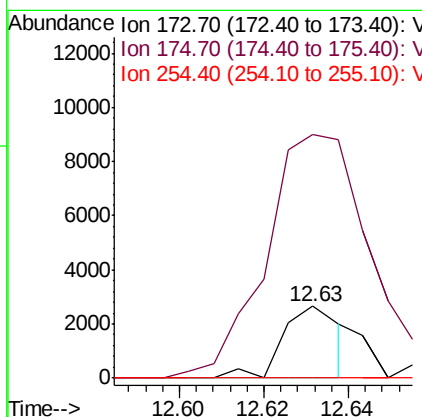
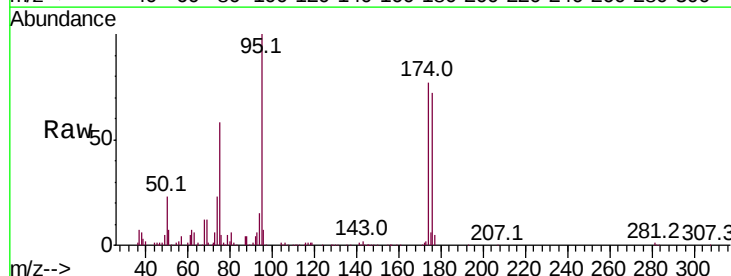
Instrument :
MSVOA_D
ClientSampleId :
AL-FALAH-6

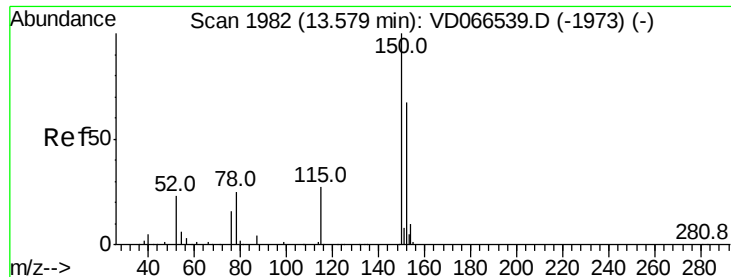
Tot Ion:117 Resp: 602255
Ion Ratio Lower Upper
117 100
82 58.1 46.2 69.2
119 33.7 25.8 38.8



#71
Bromoform
Concen: 1.036 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD066587.D
Acq: 09 Sep 2020 17:04

Tgt Ion:173 Resp: 2478
Ion Ratio Lower Upper
173 100
175 471.6 24.2 72.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

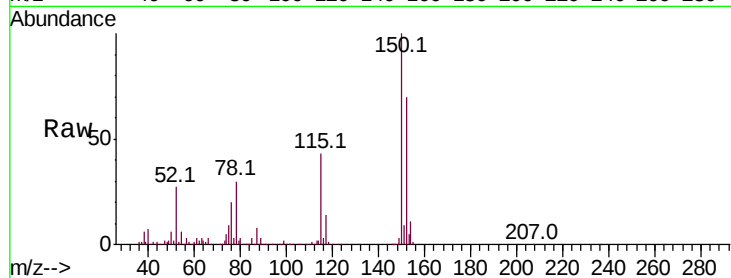
Tot Ion:152 Resp: 265436

Ion Ratio Lower Upper

152 100

115 61.6 30.4 91.2

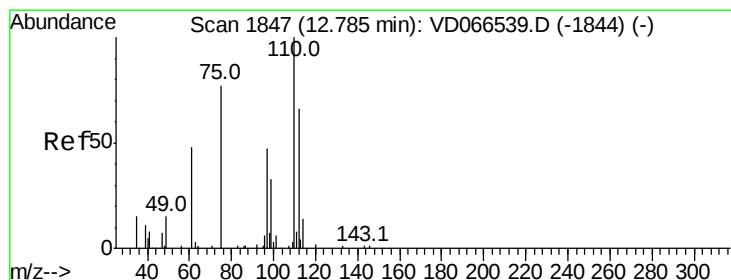
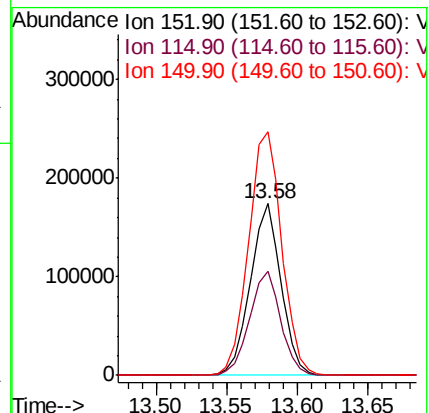
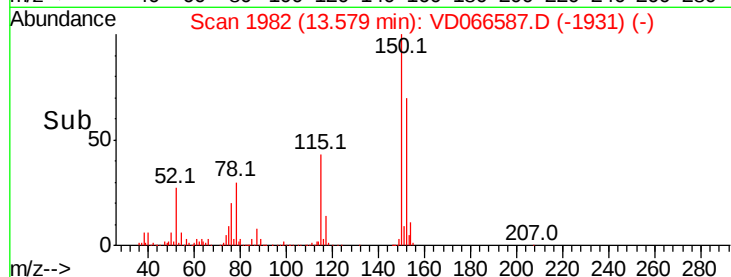
150 153.7 0.0 345.8



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: 60.277 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066587.D

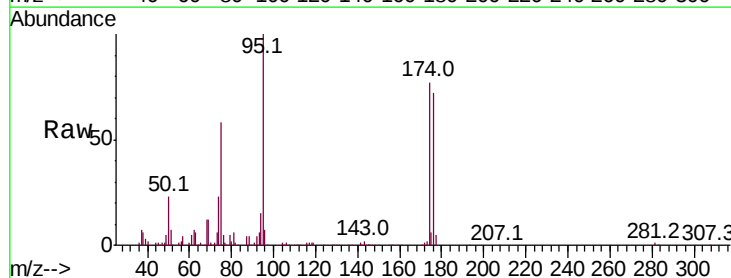
Acq: 09 Sep 2020 17:04

Tgt Ion: 75 Resp: 153873

Ion Ratio Lower Upper

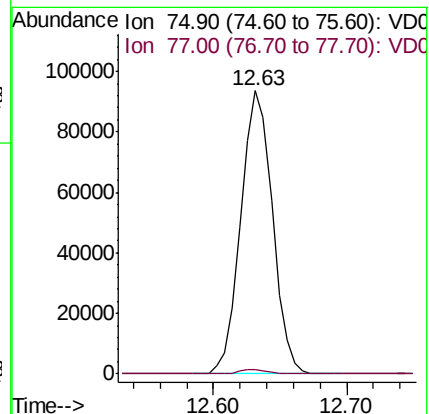
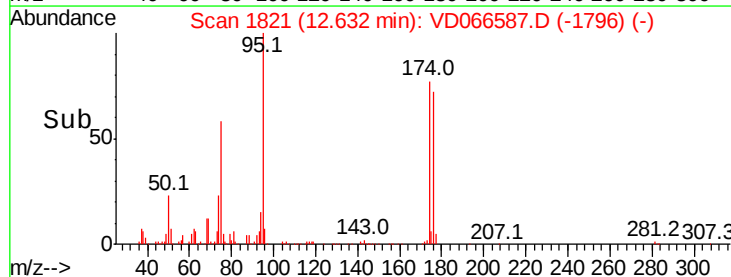
75 100

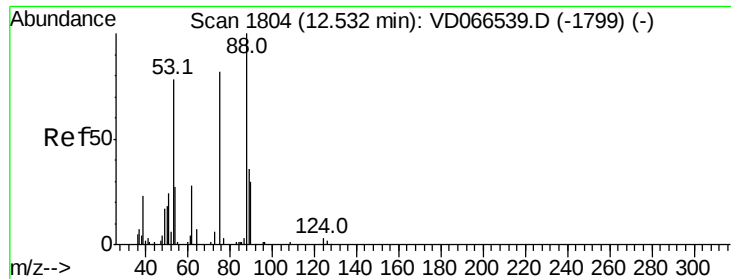
77 1.3 0.0 0.0#



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: 140.725 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066587.D

Acq: 09 Sep 2020 17:04

Instrument :

MSVOA_D

ClientSampleId :

AL-FALAH-6

Tot Ion: 75 Resp: 153873

Ion Ratio Lower Upper

75 100

53 0.2 87.0 130.4#

89 0.0 37.1 55.7#

