

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092420\
 Data File : VD066861.D
 Acq On : 24 Sep 2020 19:50
 Operator : VA/SY
 Sample : L4127-06
 Misc : 5.09G/5.00ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(9-11)

Quant Time: Sep 25 01:11:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	439785	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	776826	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	787586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	358769	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	242399	56.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.62%	
35) Dibromofluoromethane	7.91	113	253606	51.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.62%	
50) Toluene-d8	10.34	98	933297	55.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.86%	
62) 4-Bromofluorobenzene	12.63	95	346426	60.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.20%	

Target Compounds

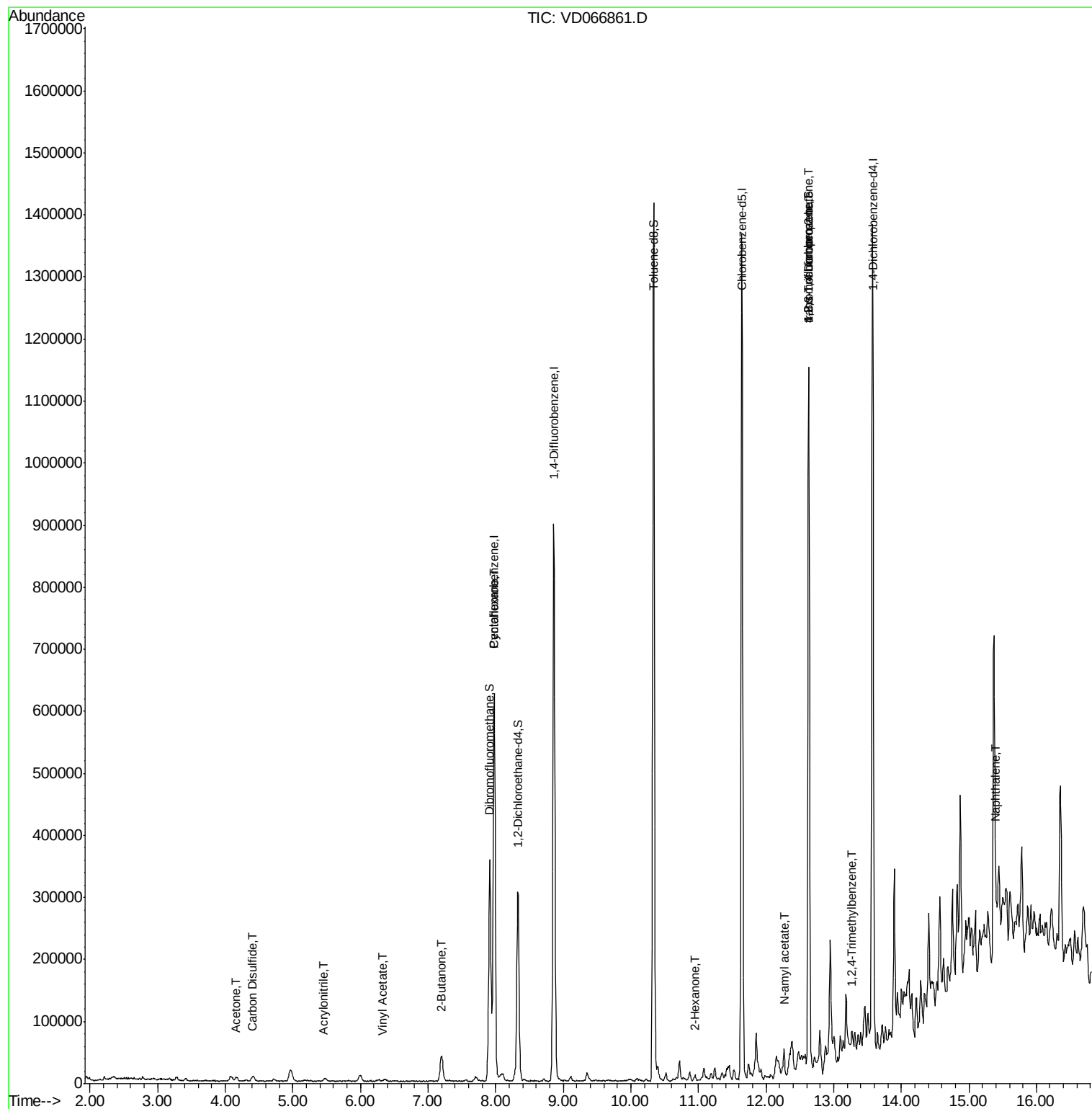
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	2812	Below Cal		83
11) Tert butyl alcohol	5.21	59	1338	Below Cal	#	72
15) Acrylonitrile	5.45	53	994	1.078	ug/l #	59
16) Acetone	4.16	43	11608	12.712	ug/l #	88
17) Carbon Disulfide	4.41	76	18746	1.424	ug/l	99
18) Methyl Acetate	4.71	43	209	Below Cal	#	50
20) Methylene Chloride	4.97	84	14187	Below Cal		97
23) Vinyl Acetate	6.33	43	1146	2.832	ug/l #	71
25) 2-Butanone	7.20	43	2984	2.719	ug/l	89
31) Cyclohexane	7.98	56	13387	1.710	ug/l #	29
49) 1,4-Dioxane	9.46	88	400	Below Cal	#	51
59) 2-Hexanone	10.95	43	2747	1.497	ug/l #	25
74) N-amyl acetate	12.26	43	9299	1.837	ug/l #	58
76) 1,2,3-Trichloropropane	12.63	75	187844	63.179	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	187844	158.069	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.27	105	23002	1.055	ug/l	86
95) Naphthalene	15.40	128	77721	7.098	ug/l #	85

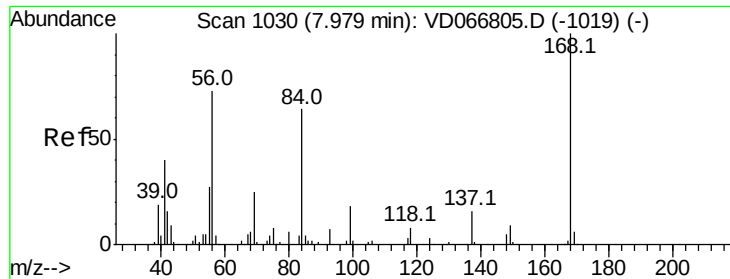
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092420\
Data File : VD066861.D
Acq On : 24 Sep 2020 19:50
Operator : VA/SY
Sample : L4127-06
Misc : 5.09G/5.00ml/MSVOA D/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
B-2(9-11)

Quant Time: Sep 25 01:11:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
Quant Title : SW846 8260
QLast Update : Wed Sep 23 01:34:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

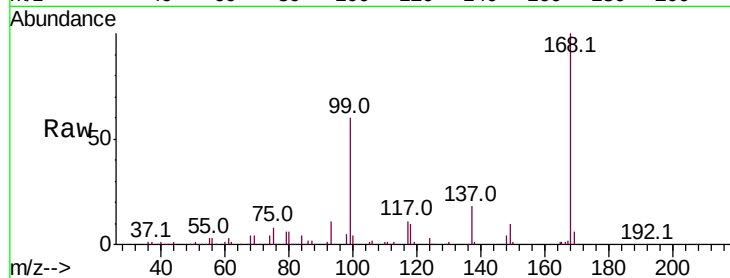
B-2(9-11)

Tot Ion:168 Resp: 439785

Ion Ratio Lower Upper

168 100

99 60.0 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

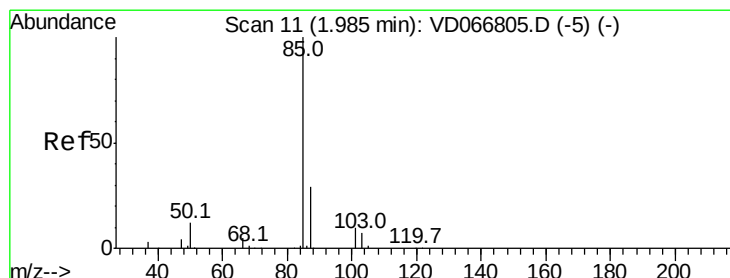
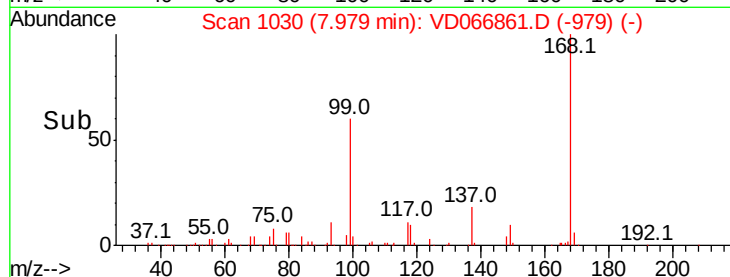
100000

50000

0

Time-->

7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066861.D

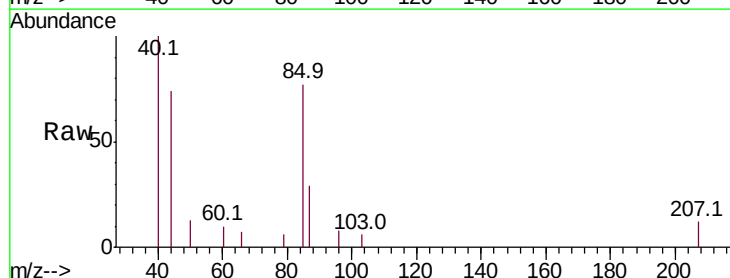
Acq: 24 Sep 2020 19:50

Tgt Ion: 85 Resp: 2812

Ion Ratio Lower Upper

85 100

87 38.1 14.5 43.5



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2500

2000

1500

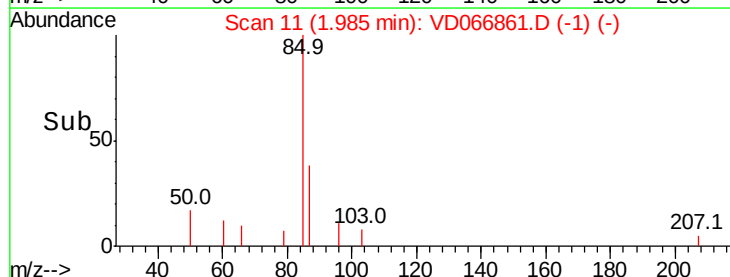
1000

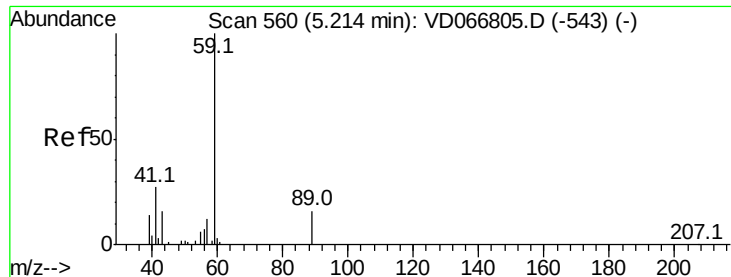
500

0

Time-->

1.95 2.00 2.05



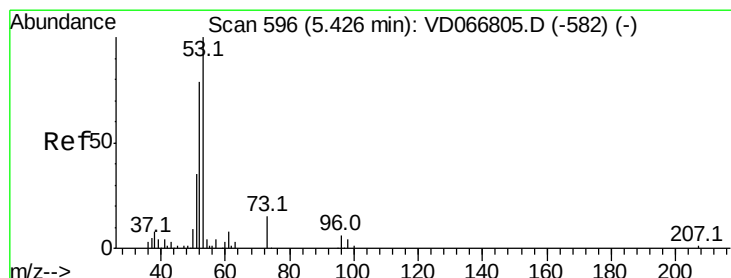
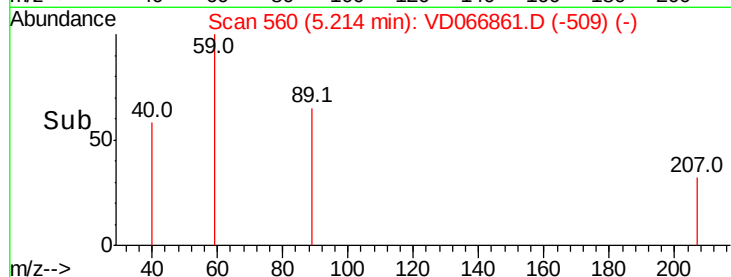
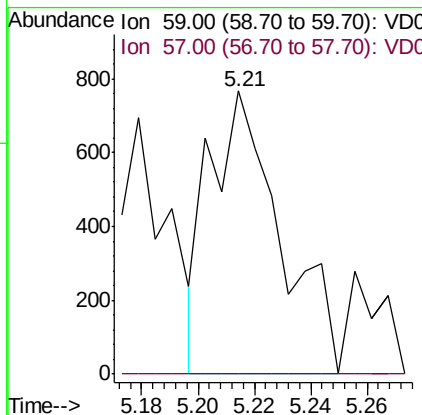
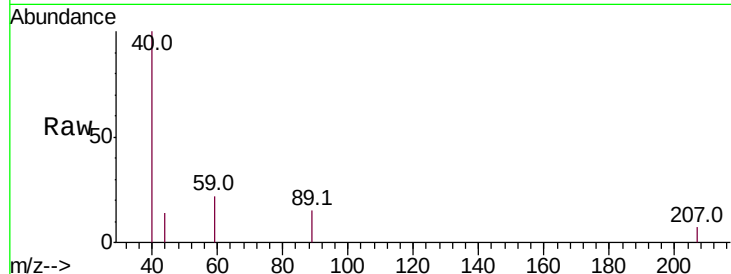


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 560
 Delta R.T. 0.00 min
 Lab File: VD066861.D
 Acq: 24 Sep 2020 19:50

Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(9-11)

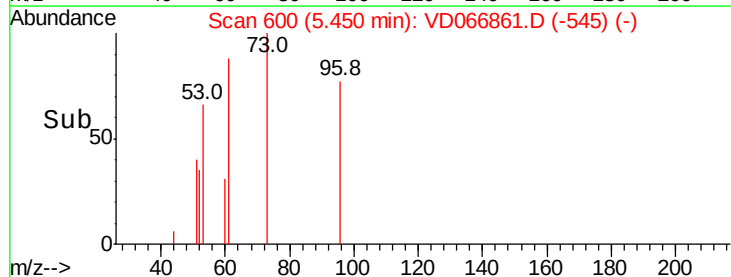
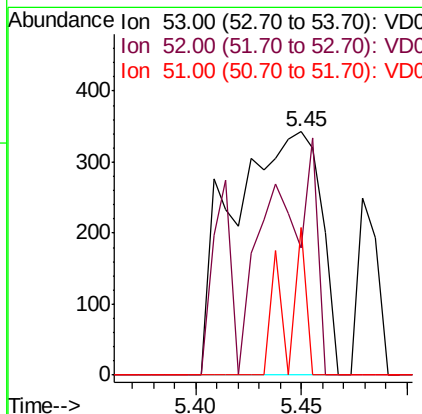
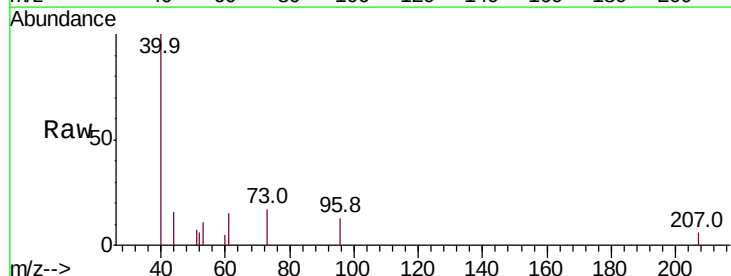
Tot Ion: 59 Resp: 1338
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

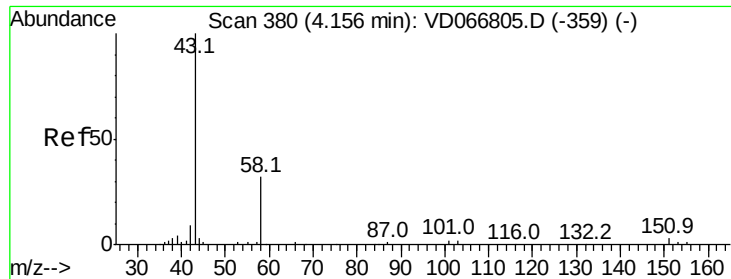


#15

Acrylonitrile
 Concen: 1.078 ug/l
 RT: 5.45 min Scan# 600
 Delta R.T. 0.02 min
 Lab File: VD066861.D
 Acq: 24 Sep 2020 19:50

Tgt Ion: 53 Resp: 994
 Ion Ratio Lower Upper
 53 100
 52 49.8 65.2 97.8#
 51 6.2 30.6 46.0#





#16

Acetone

Concen: 12.712 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

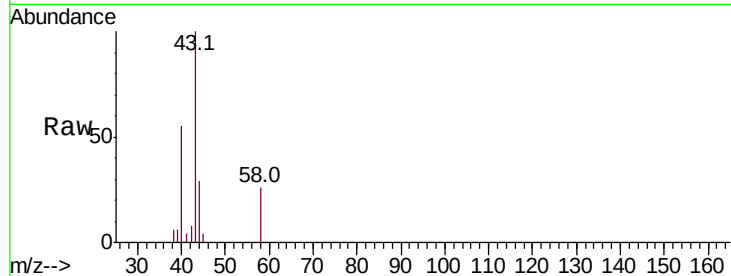
B-2(9-11)

Tot Ion: 43 Resp: 11608

Ion Ratio Lower Upper

43 100

58 25.6 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

4000

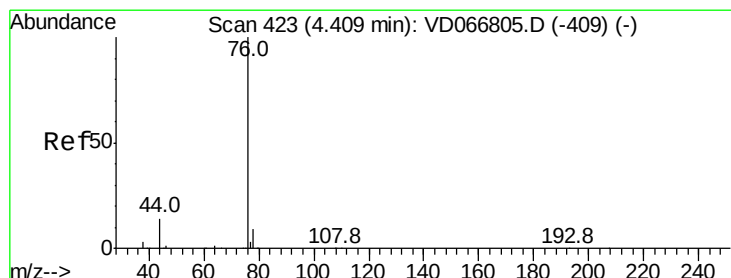
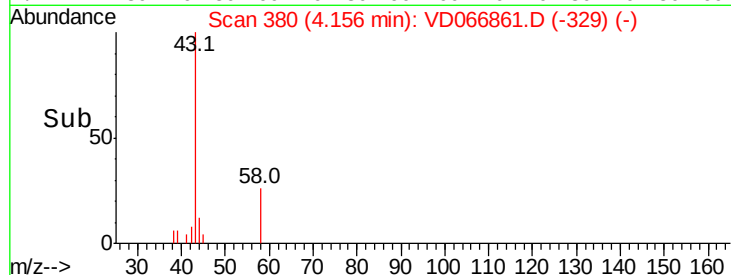
3000

2000

1000

0

Time--> 4.05 4.10 4.15 4.20 4.25



#17

Carbon Disulfide

Concen: 1.424 ug/l

RT: 4.41 min Scan# 423

Delta R.T. -0.00 min

Lab File: VD066861.D

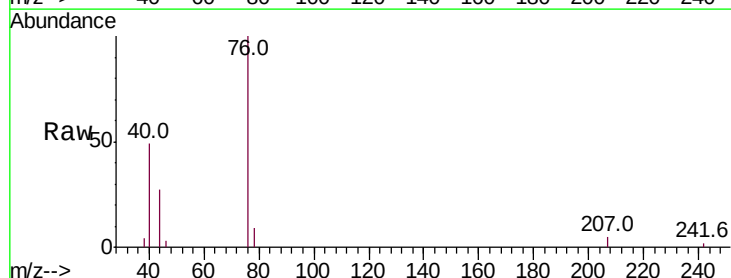
Acq: 24 Sep 2020 19:50

Tgt Ion: 76 Resp: 18746

Ion Ratio Lower Upper

76 100

78 9.3 7.6 11.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.41

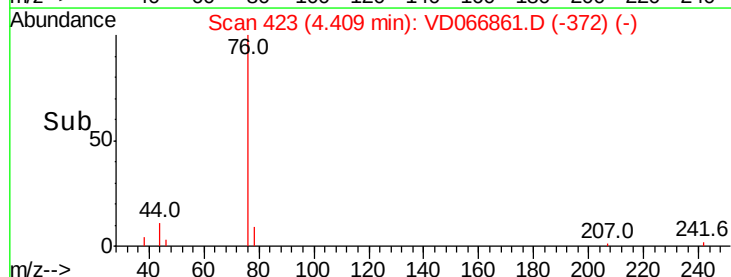
6000

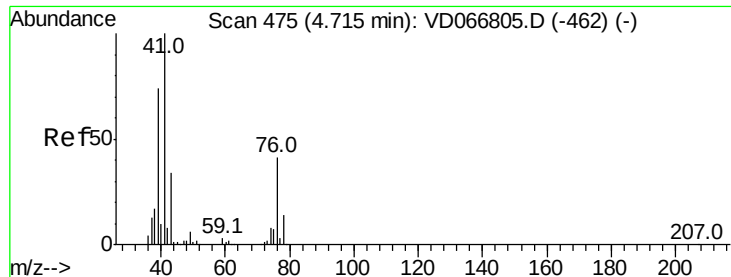
4000

2000

0

Time--> 4.30 4.35 4.40 4.45 4.50





#18

Methvl Acetate

Concen: Below Cal

RT: 4.71 min Scan# 475

Delta R.T. 0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

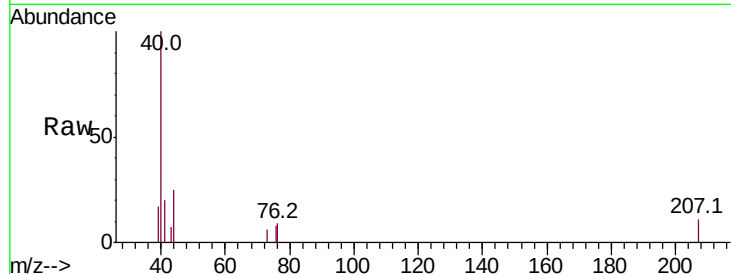
B-2(9-11)

Tot Ion: 43 Resp: 209

Ion Ratio Lower Upper

43 100

74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

4.71

250

200

150

100

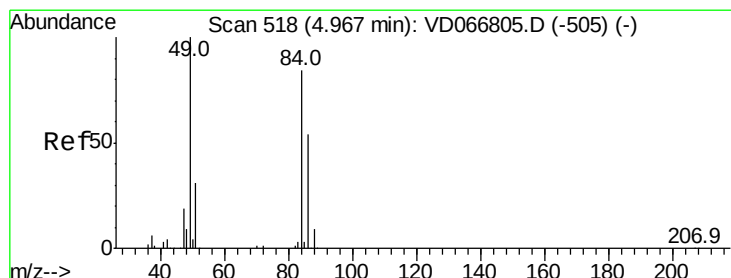
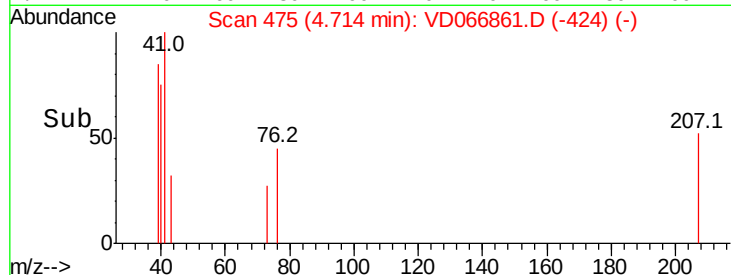
50

0

4.70

4.72

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Tgt Ion: 84 Resp: 14187

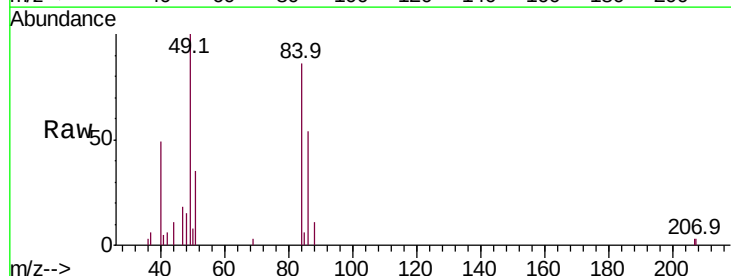
Ion Ratio Lower Upper

84 100

49 116.1 95.4 143.2

51 40.2 29.7 44.5

86 63.2 51.4 77.2



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

8000

6000

4000

2000

0

4.85

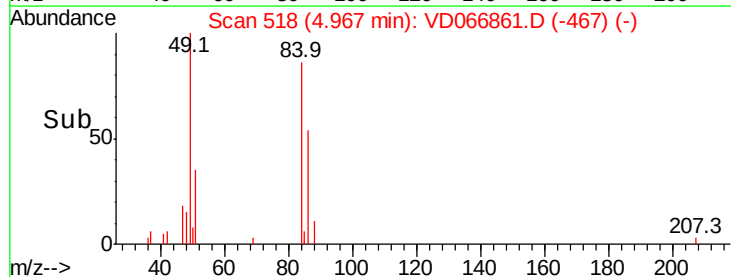
4.90

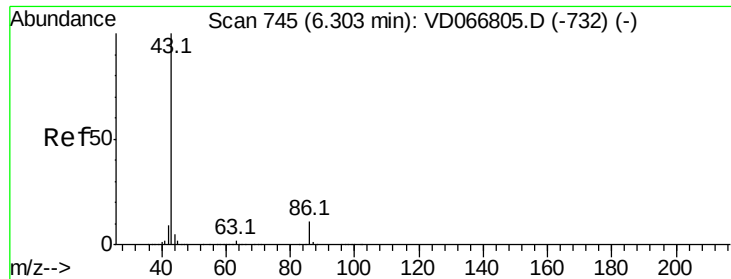
4.95

5.00

5.05

Time-->

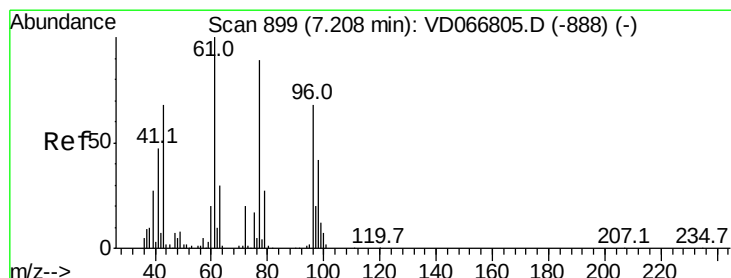
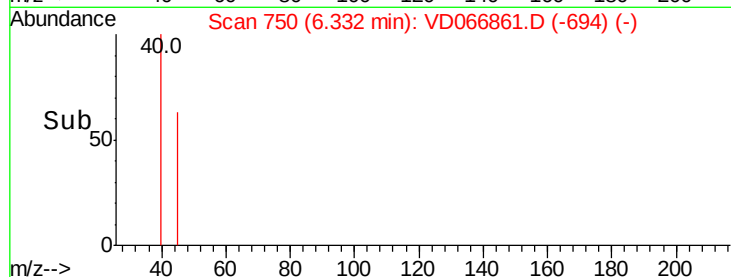
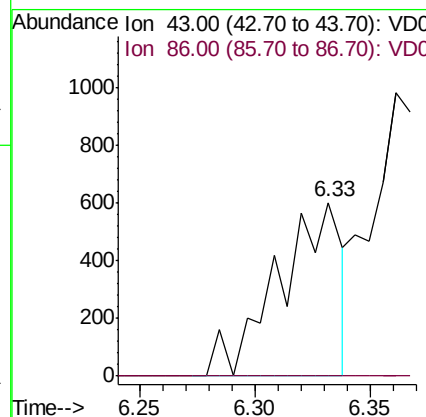
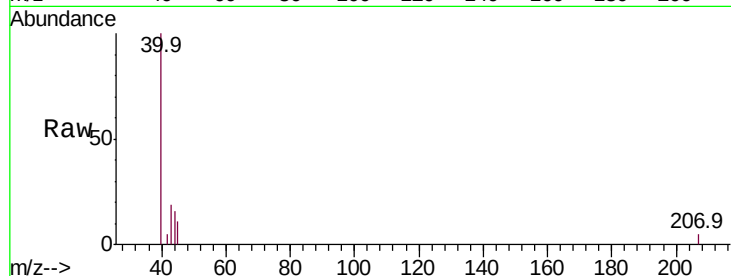




#23
 Vinyl Acetate
 Concen: 2.832 ug/l
 RT: 6.33 min Scan# 750
 Delta R.T. 0.03 min
 Lab File: VD066861.D
 Acq: 24 Sep 2020 19:50

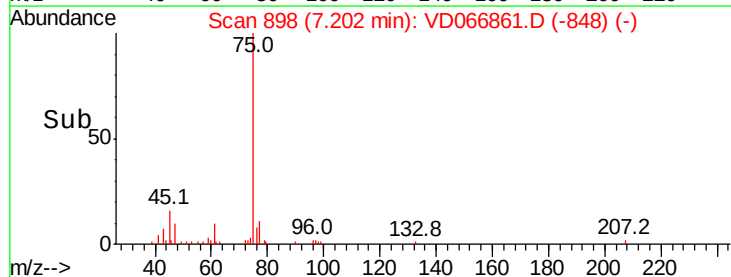
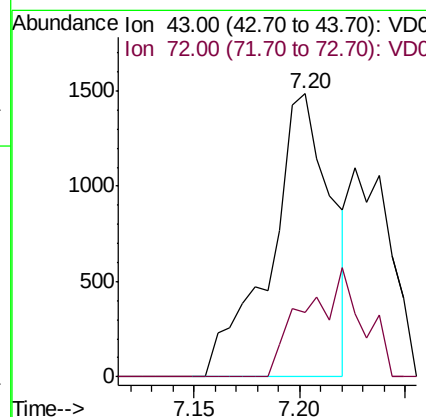
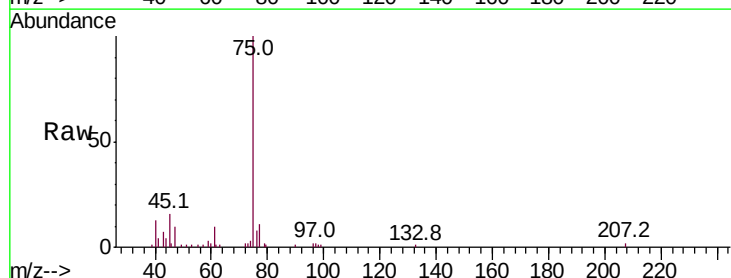
Instrument :
 MSVOA_D
 ClientSampleId :
 B-2(9-11)

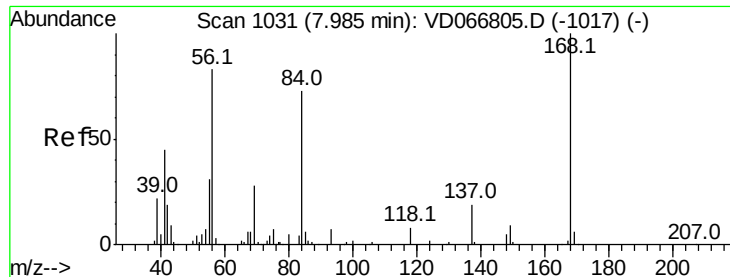
Tot Ion: 43 Resp: 1146
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.9 13.3#



#25
 2-Butanone
 Concen: 2.719 ug/l
 RT: 7.20 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VD066861.D
 Acq: 24 Sep 2020 19:50

Tgt Ion: 43 Resp: 2984
 Ion Ratio Lower Upper
 43 100
 72 23.0 22.9 34.3

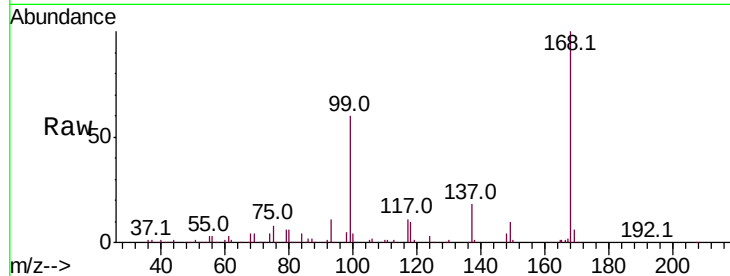




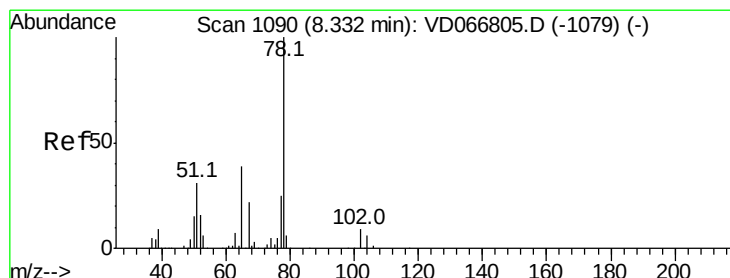
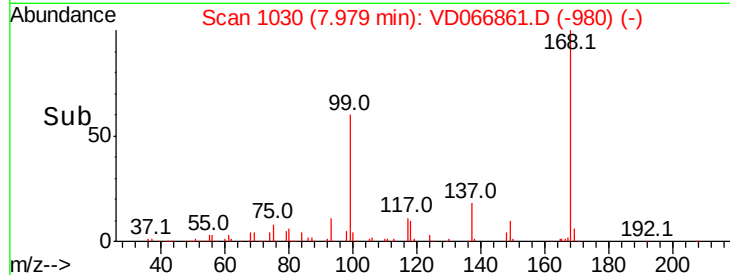
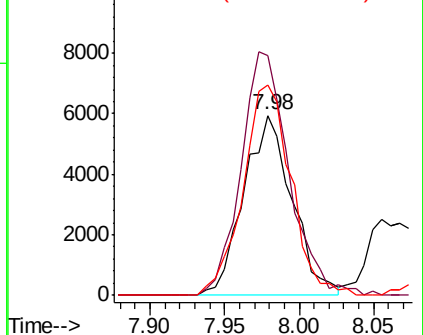
#31
Cyclohexane
Concen: 1.710 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD066861.D
Acq: 24 Sep 2020 19:50

Instrument :
MSVOA_D
ClientSampleId :
B-2(9-11)

Tot Ion: 56 Resp: 13387
Ion Ratio Lower Upper
56 100
69 133.5 27.0 40.4#
84 117.3 70.2 105.4#

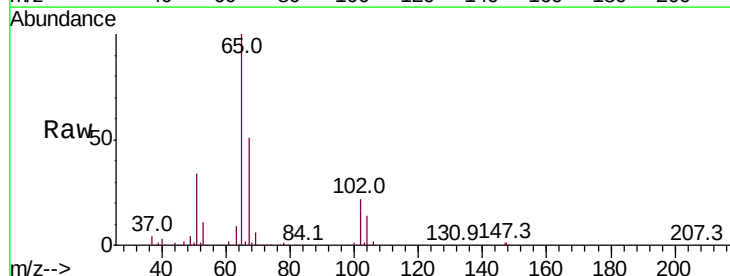


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

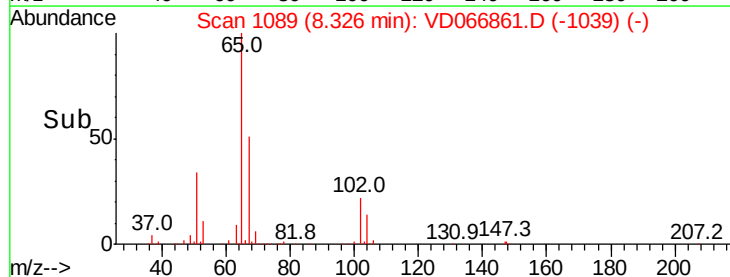
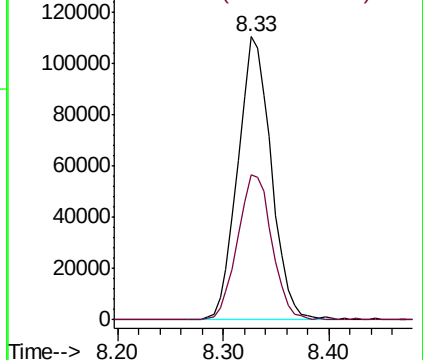


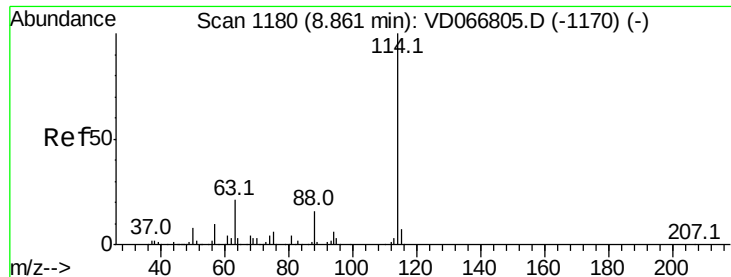
#33
1,2-Dichloroethane-d4
Concen: 56.314 ug/l
RT: 8.33 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VD066861.D
Acq: 24 Sep 2020 19:50

Tgt Ion: 65 Resp: 242399
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.2



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: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

B-2(9-11)

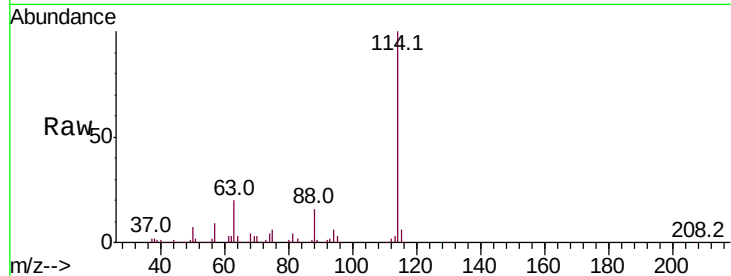
Tot Ion:114 Resp: 776826

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

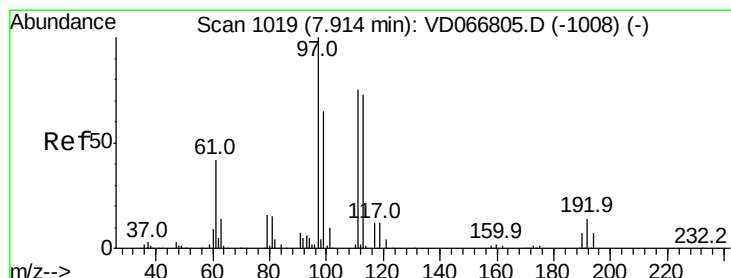
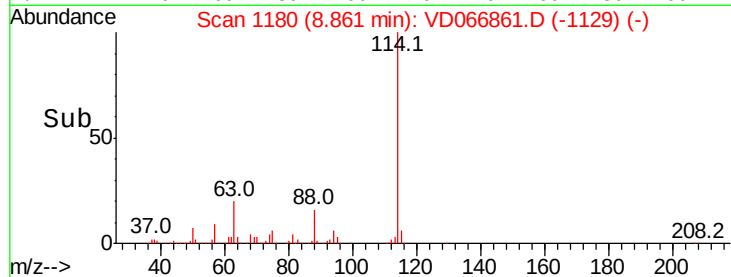
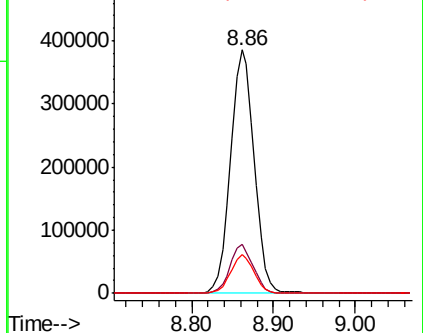
88 16.1 0.0 32.6



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: 51.315 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

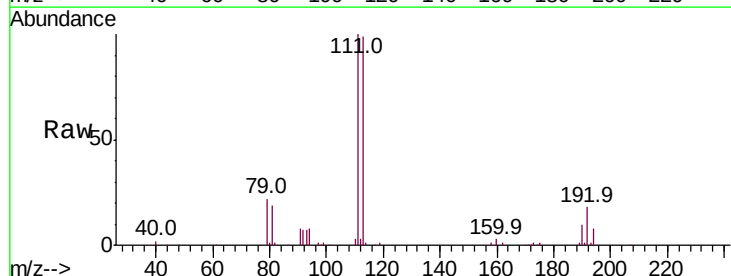
Tgt Ion:113 Resp: 253606

Ion Ratio Lower Upper

113 100

111 100.6 81.8 122.8

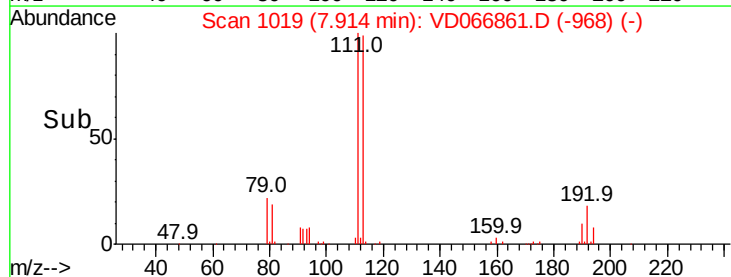
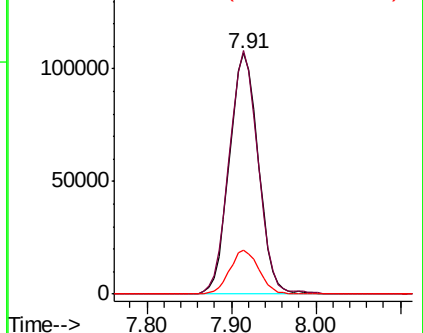
192 18.2 14.4 21.6

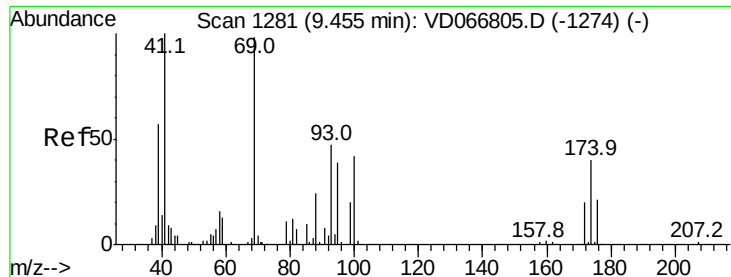


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.46 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

B-2(9-11)

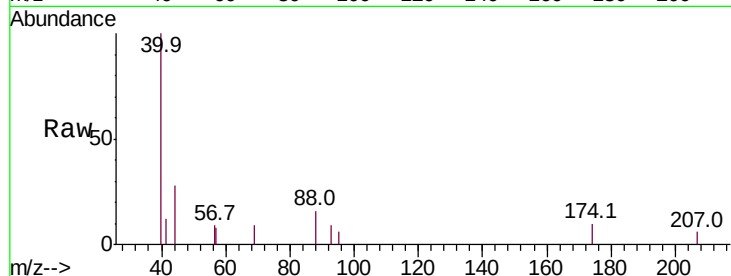
Tot Ion: 88 Resp: 400

Ion Ratio Lower Upper

88 100

43 0.0 27.7 41.5#

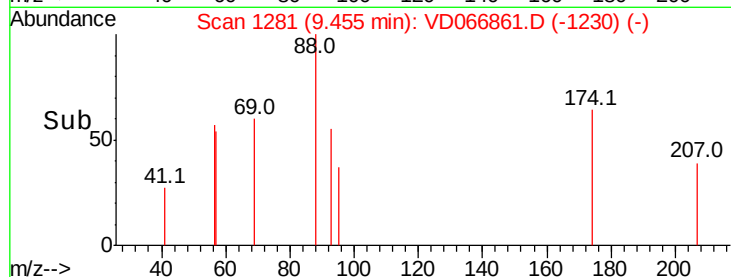
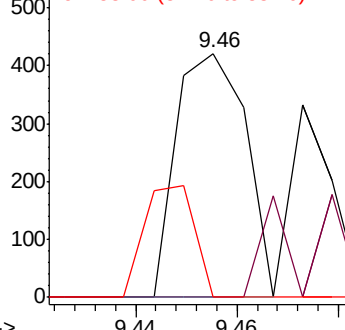
58 33.5 55.5 83.3#



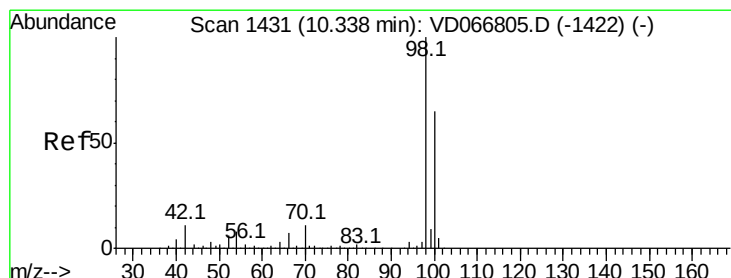
Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->



#50

Toluene-d8

Concen: 55.425 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD066861.D

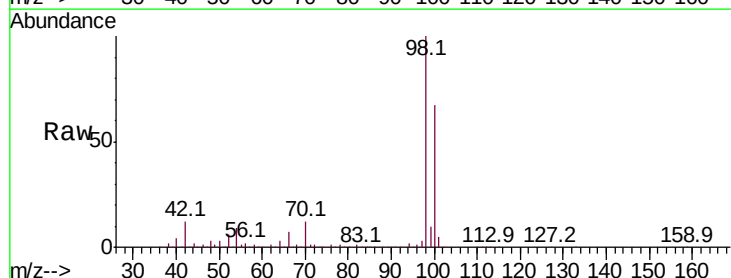
Acq: 24 Sep 2020 19:50

Tgt Ion: 98 Resp: 933297

Ion Ratio Lower Upper

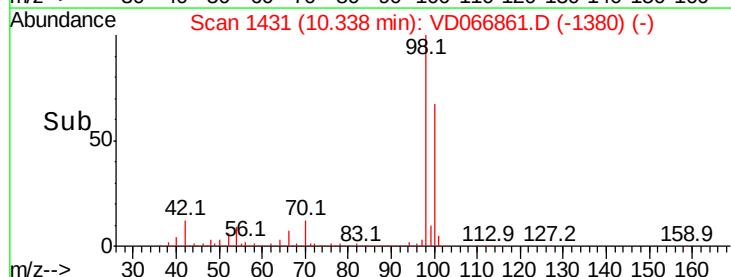
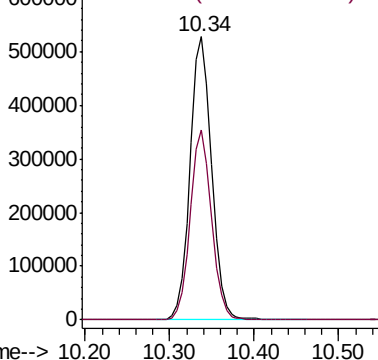
98 100

100 66.2 52.2 78.2

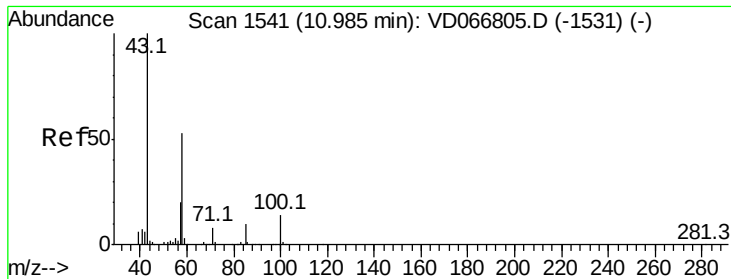


Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



Time-->



#59

2-Hexanone

Concen: 1.497 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

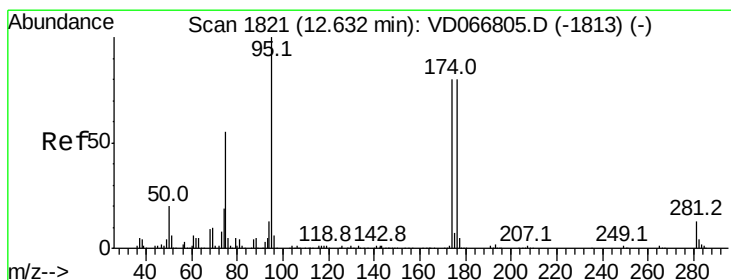
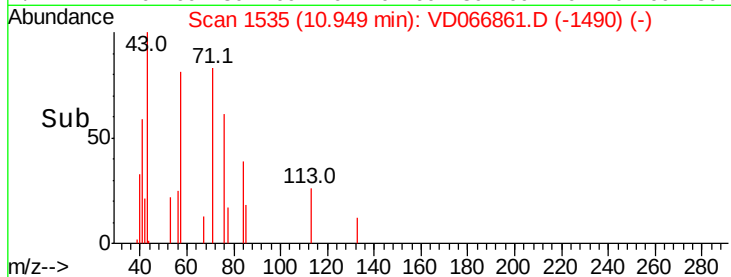
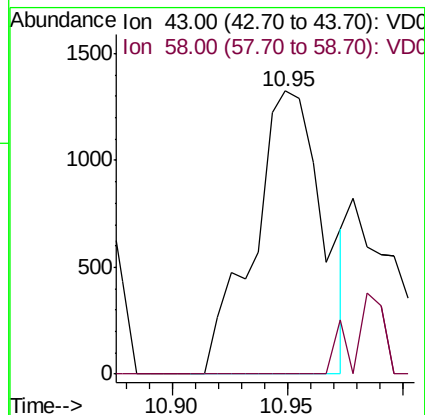
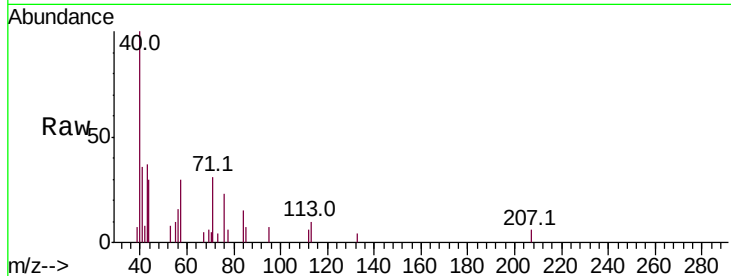
B-2(9-11)

Tot Ion: 43 Resp: 2747

Ion Ratio Lower Upper

43 100

58 0.0 27.0 80.8#



#62

4-Bromofluorobenzene

Concen: 60.096 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

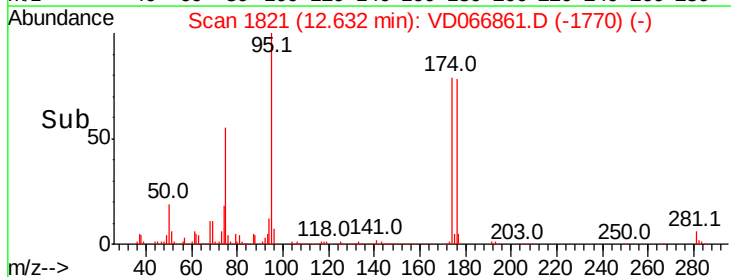
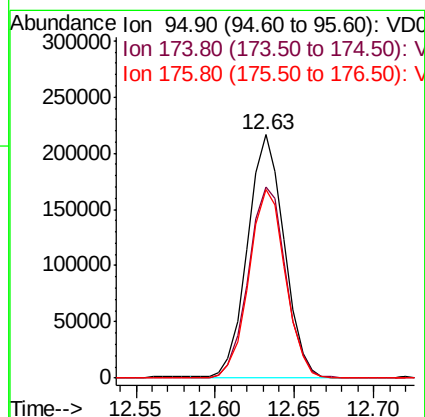
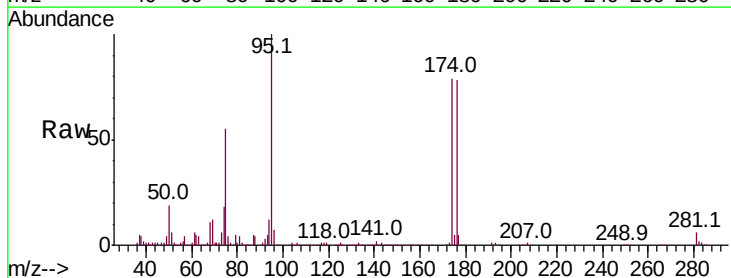
Tgt Ion: 95 Resp: 346426

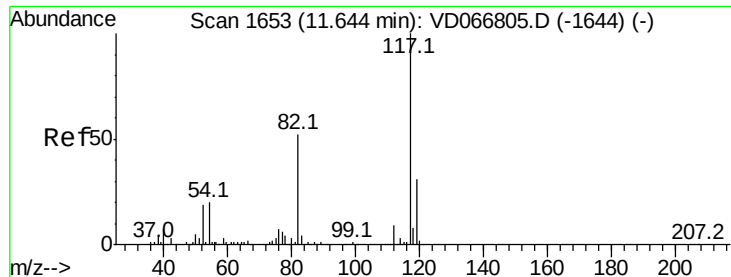
Ion Ratio Lower Upper

95 100

174 80.9 0.0 159.8

176 77.7 0.0 154.4

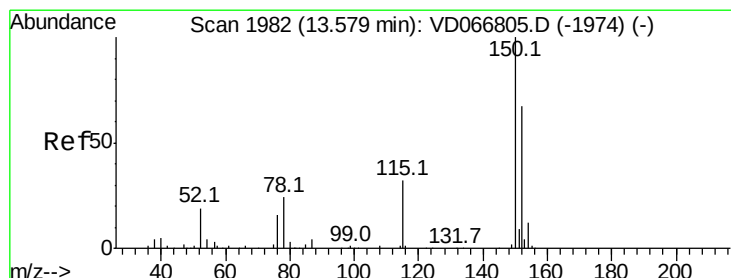
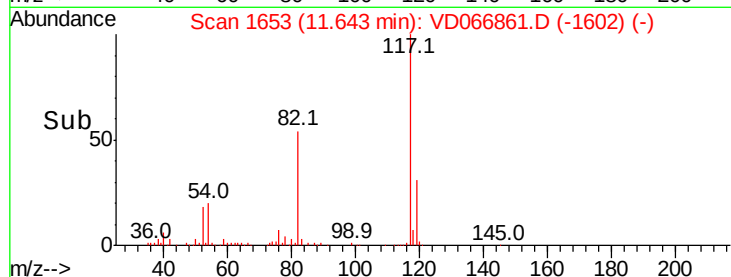
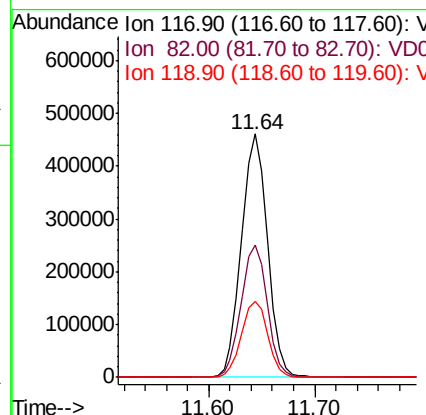
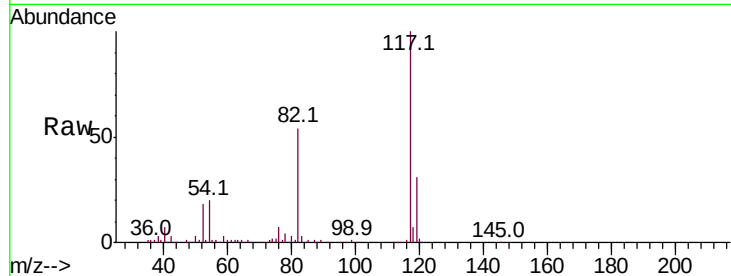




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066861.D
Acq: 24 Sep 2020 19:50

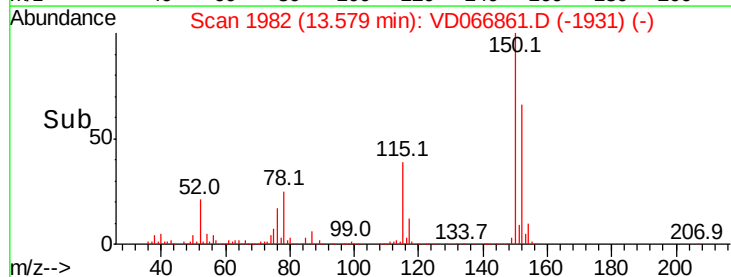
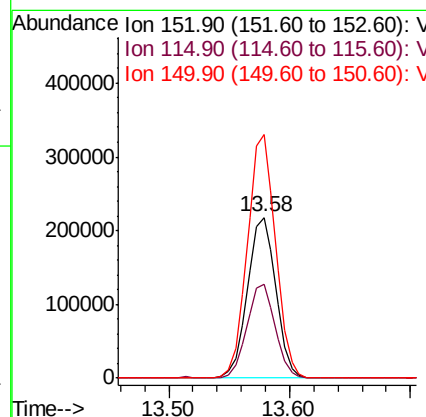
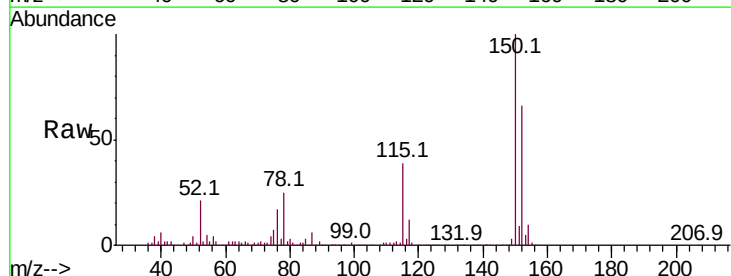
Instrument :
MSVOA_D
ClientSampleId :
B-2(9-11)

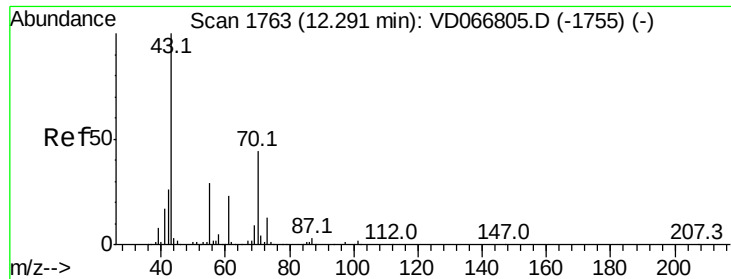
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	41.8	62.6
119	31.2	24.6	37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.00 min
Lab File: VD066861.D
Acq: 24 Sep 2020 19:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.3	30.3	91.0
150	150.1	0.0	346.2





#74

N-amvl acetate

Concen: 1.837 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.03 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

B-2(9-11)

Tot Ion: 43 Resp: 9299

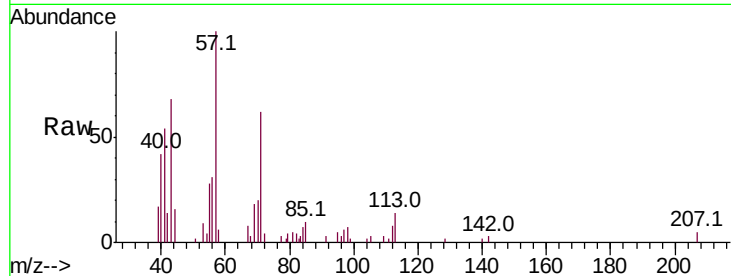
Ion Ratio Lower Upper

43 100

70 31.4 36.1 54.1#

55 64.7 21.8 32.8#

61 0.0 19.0 28.4#

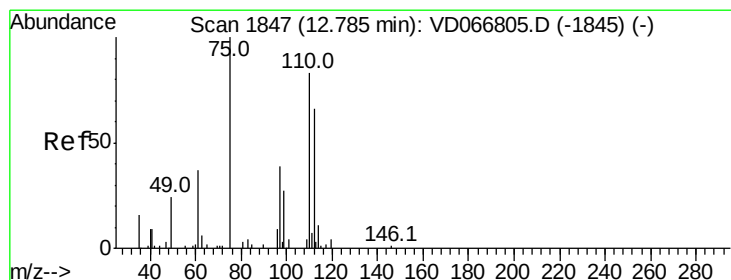
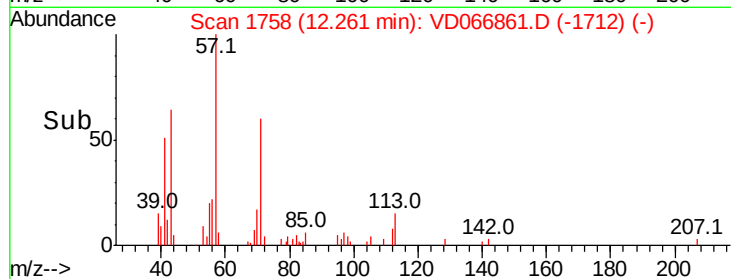
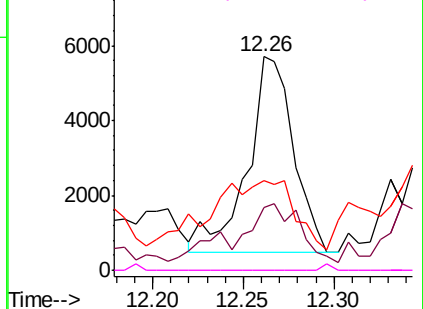


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 63.179 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066861.D

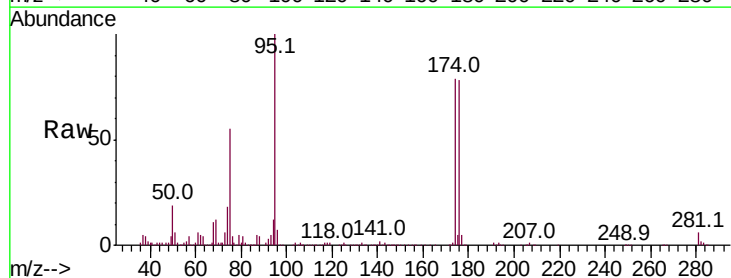
Acq: 24 Sep 2020 19:50

Tgt Ion: 75 Resp: 187844

Ion Ratio Lower Upper

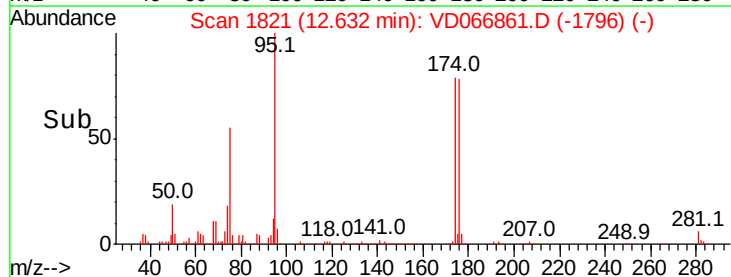
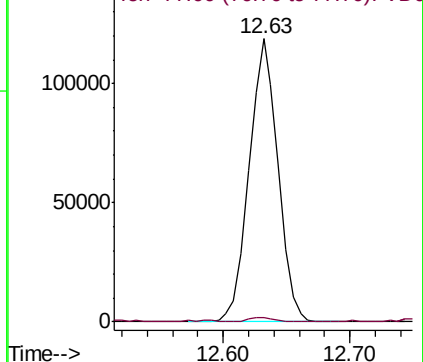
75 100

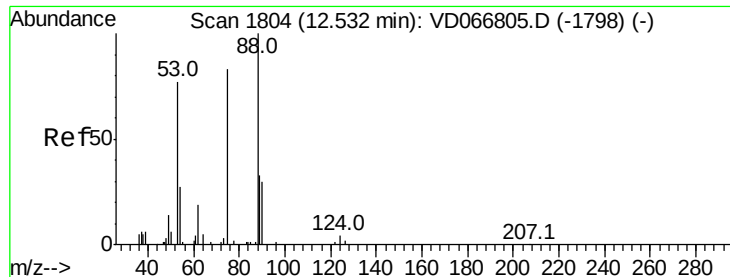
77 1.5 0.0 0.0#



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: 158.069 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

B-2(9-11)

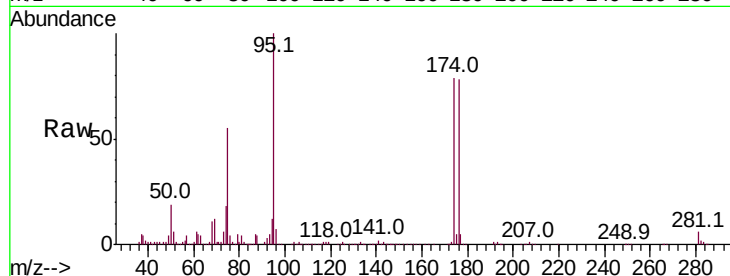
Tot Ion: 75 Resp: 187844

Ion Ratio Lower Upper

75 100

53 0.7 78.5 117.7#

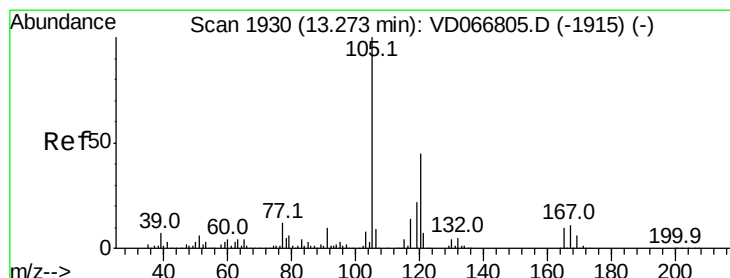
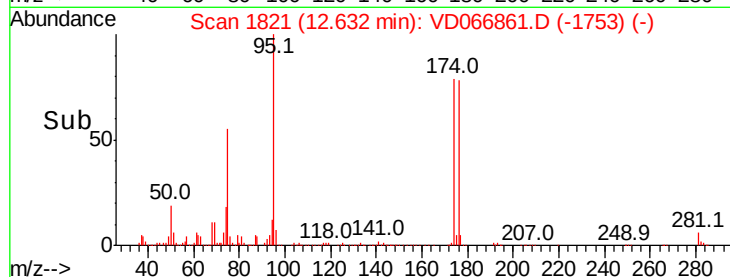
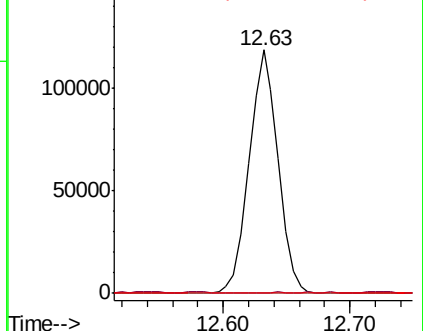
89 0.0 38.1 57.1#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.055 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066861.D

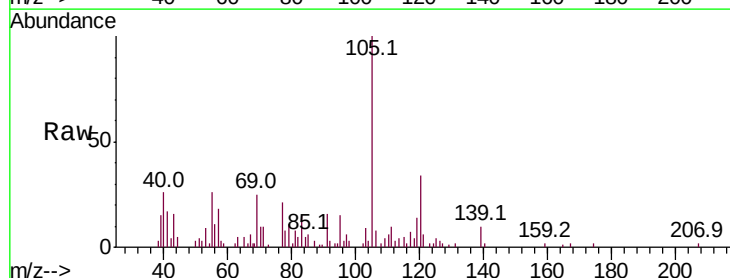
Acq: 24 Sep 2020 19:50

Tgt Ion: 105 Resp: 23002

Ion Ratio Lower Upper

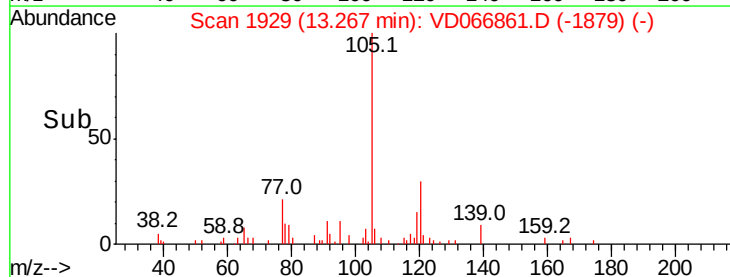
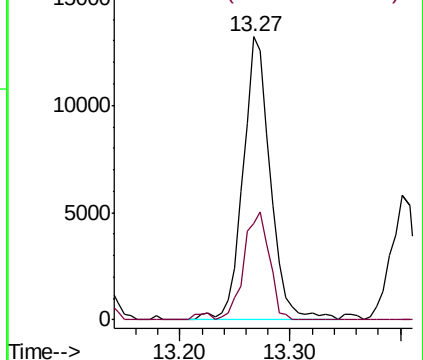
105 100

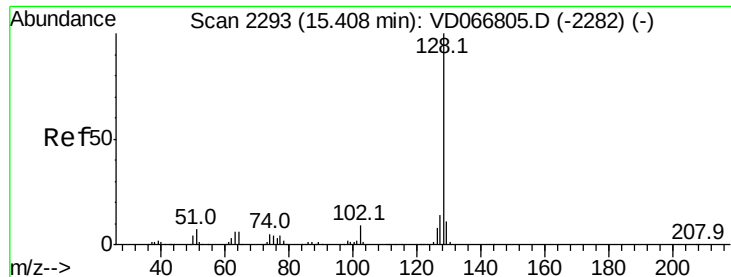
120 35.5 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 7.098 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066861.D

Acq: 24 Sep 2020 19:50

Instrument :

MSVOA_D

ClientSampleId :

B-2(9-11)

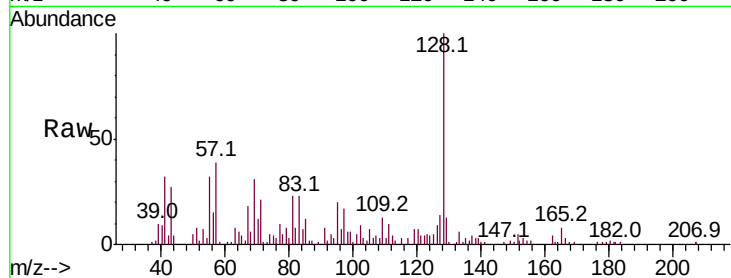
Tot Ion:128 Resp: 77721

Ion Ratio Lower Upper

128 100

127 20.8 10.6 16.0#

129 15.2 8.9 13.3#



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

