

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090920\
 Data File : VD066606.D
 Acq On : 10 Sep 2020 03:33
 Operator : VA/SY
 Sample : L3808-06
 Misc : 5.65G/5.00ml/MSVOA D/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B44-090320-19-20

Quant Time: Sep 10 05:04:17 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	13646	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	24862	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	25443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	11808	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	16975	102.81	ug/l	0.00
Spiked Amount			Recovery	=	205.62%	
35) Dibromofluoromethane	7.91	113	11287	67.30	ug/l	0.00
Spiked Amount			Recovery	=	134.60%	
50) Toluene-d8	10.33	98	29287	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.63	95	10924	54.96	ug/l	0.00
Spiked Amount			Recovery	=	109.92%	

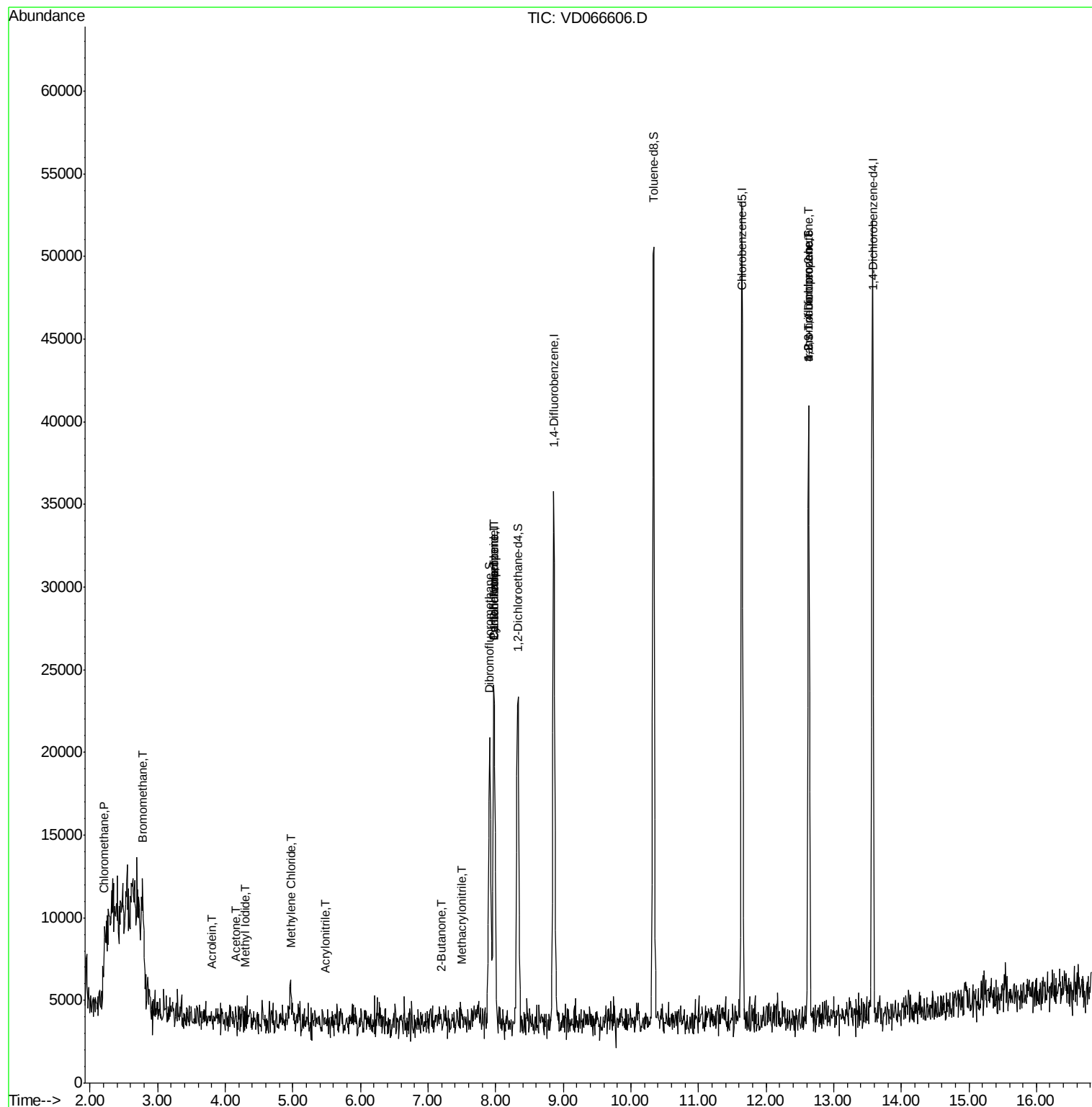
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	559	3.239	ug/l #	42
5) Bromomethane	2.79	94	846	2.686	ug/l	97
10) Methyl Iodide	4.29	142	153	5.031	ug/l #	35
13) Acrolein	3.80	56	59	8.740	ug/l #	16
15) Acrylonitrile	5.47	53	53	1.733	ug/l #	17
16) Acetone	4.16	43	475	15.636	ug/l #	46
20) Methylene Chloride	4.98	84	1583	3.392	ug/l #	50
25) 2-Butanone	7.20	43	71	1.741	ug/l #	51
31) Cyclohexane	7.97	56	339	1.259	ug/l #	57
36) 1,1-Dichloropropene	7.97	75	1292	4.993	ug/l #	42
38) Carbon Tetrachloride	7.98	117	1451	5.306	ug/l #	13
41) Methacrylonitrile	7.50	41	76	1.524	ug/l #	19
76) 1,2,3-Trichloropropane	12.63	75	6267	55.186	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	6267	128.840	ug/l #	6

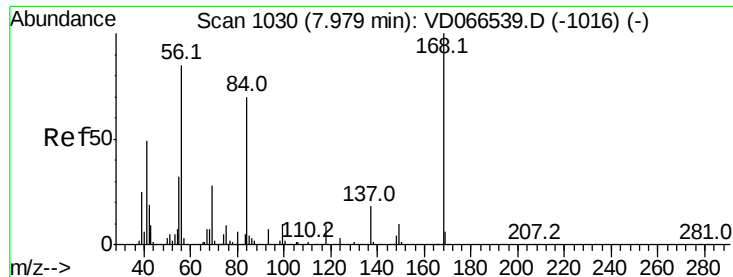
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

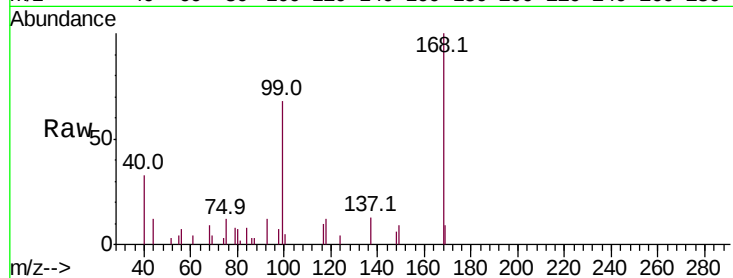
PAV-B44-090320-19-20

Tot Ion:168 Resp: 13646

Ion Ratio Lower Upper

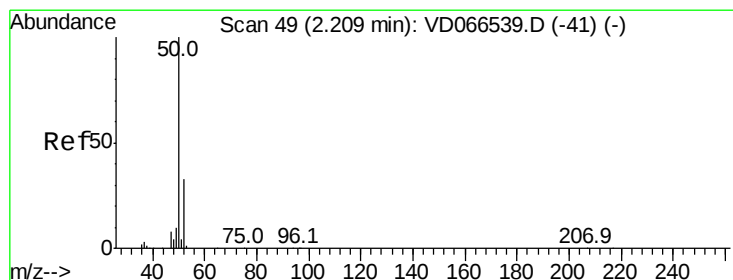
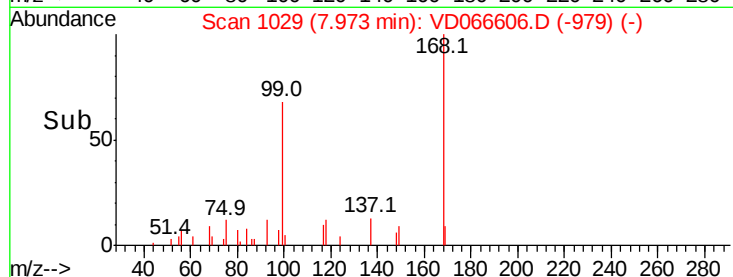
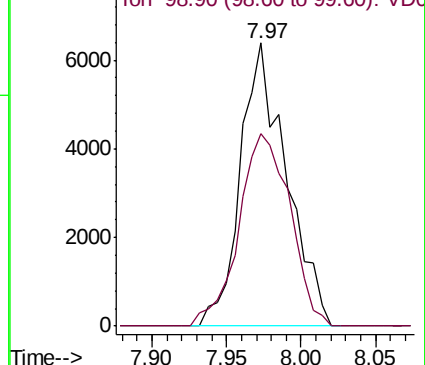
168 100

99 68.2 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.239 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD066606.D

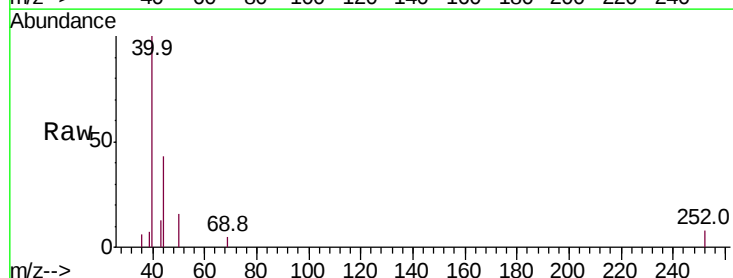
Acq: 10 Sep 2020 03:33

Tgt Ion: 50 Resp: 559

Ion Ratio Lower Upper

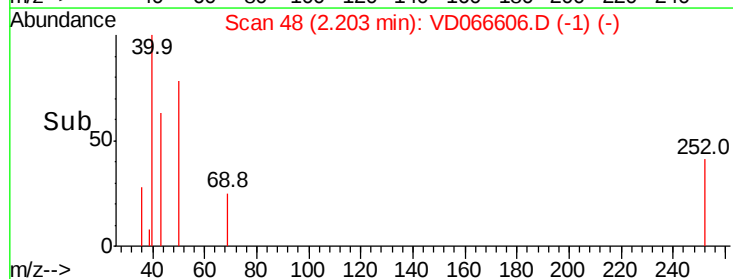
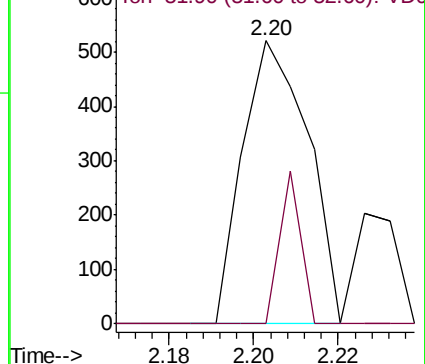
50 100

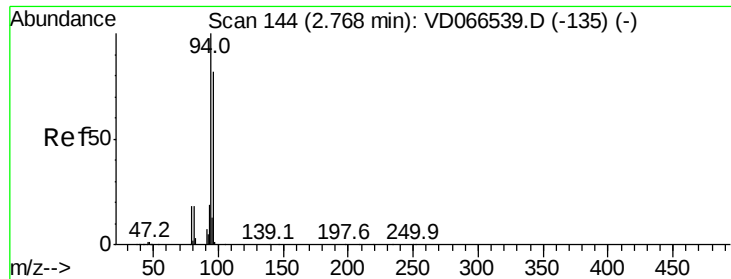
52 0.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 2.686 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

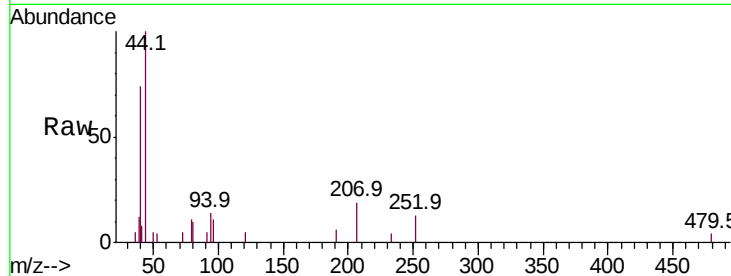
PAV-B44-090320-19-20

Tot Ion: 94 Resp: 846

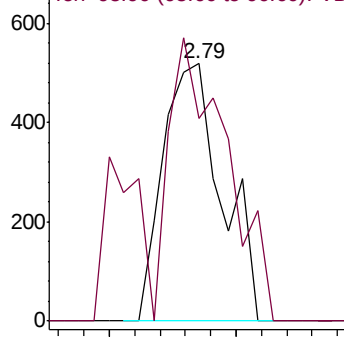
Ion Ratio Lower Upper

94 100

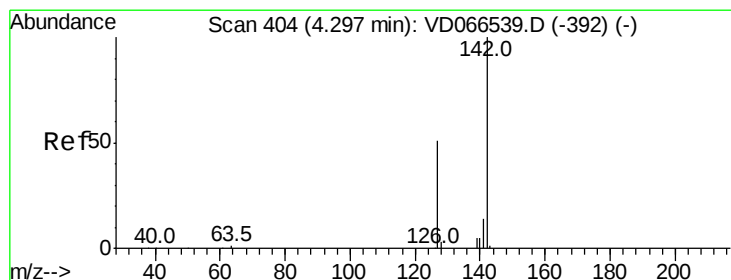
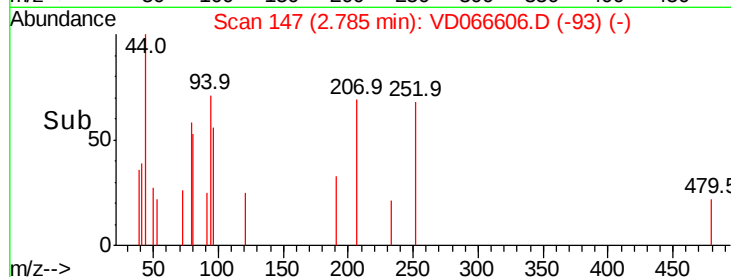
96 78.6 65.2 97.8



Abundance Ion 93.90 (93.60 to 94.60): VD066539.D (-135) (-)



Time-->



#10

Methyl Iodide

Concen: 5.031 ug/l

RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

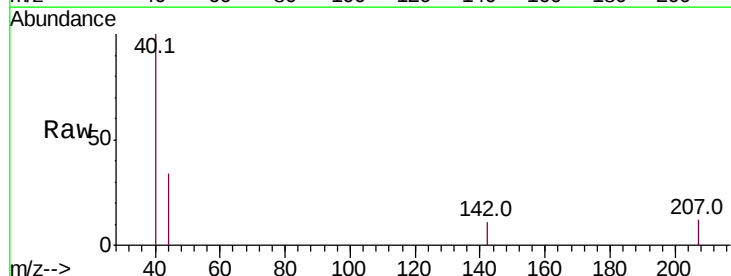
Tgt Ion: 142 Resp: 153

Ion Ratio Lower Upper

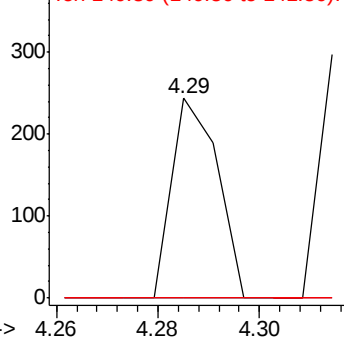
142 100

127 0.0 40.6 61.0#

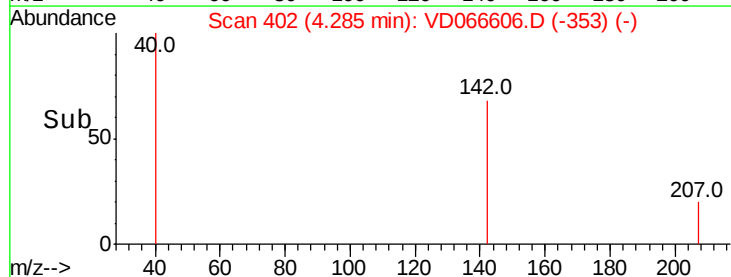
141 0.0 12.2 18.4#

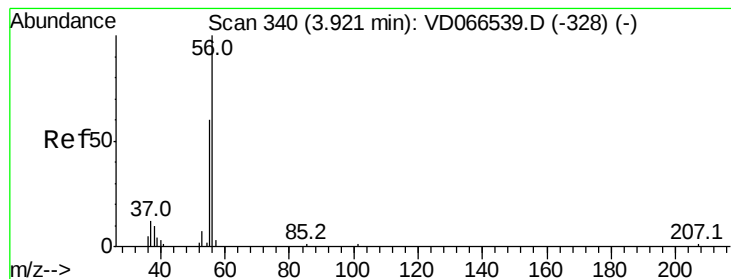


Abundance Ion 141.80 (141.50 to 142.50): VD066539.D (-392) (-)



Time-->





#13

Acrolein

Concen: 8.740 ug/l

RT: 3.80 min Scan# 320

Delta R.T. -0.12 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

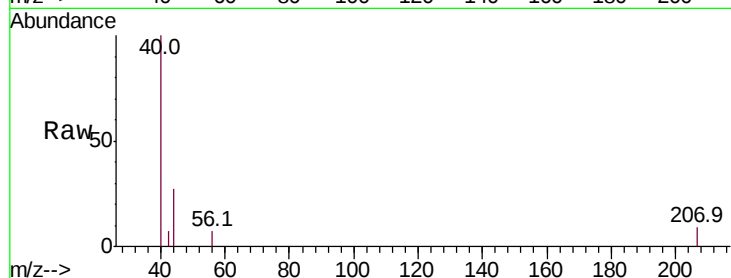
PAV-B44-090320-19-20

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

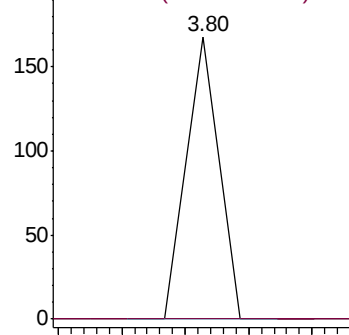
56 100

55 0.0 53.6 80.4#

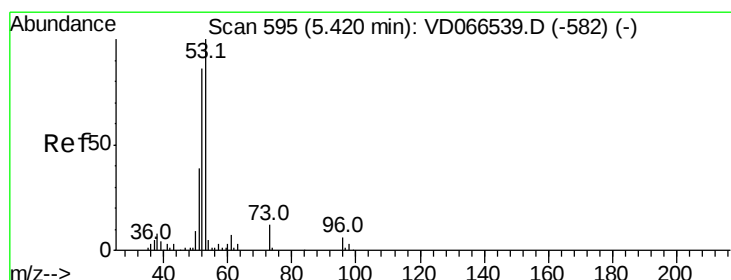
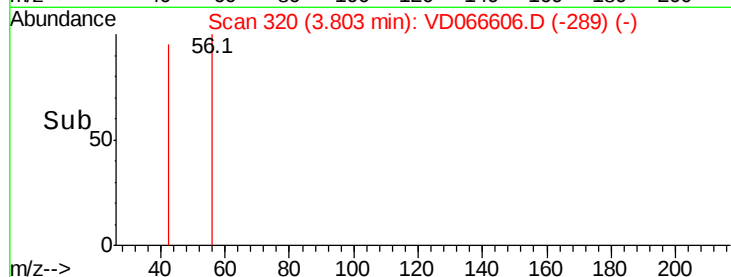


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time--> 3.78 3.79 3.80 3.81 3.82



#15

Acrylonitrile

Concen: 1.733 ug/l

RT: 5.47 min Scan# 603

Delta R.T. 0.05 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

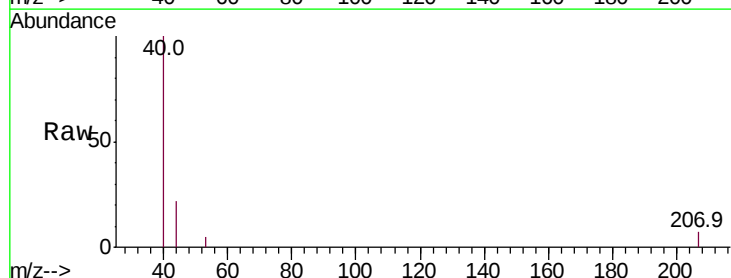
Tgt Ion: 53 Resp: 53

Ion Ratio Lower Upper

53 100

52 0.0 65.4 98.2#

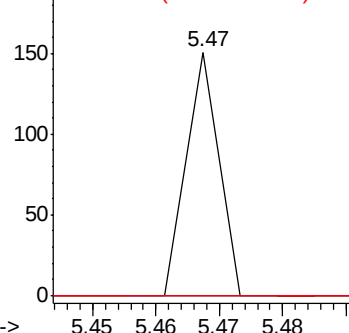
51 0.0 31.2 46.8#



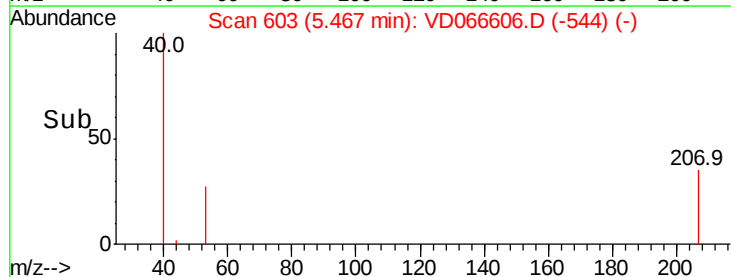
Abundance Ion 53.00 (52.70 to 53.70): VDC

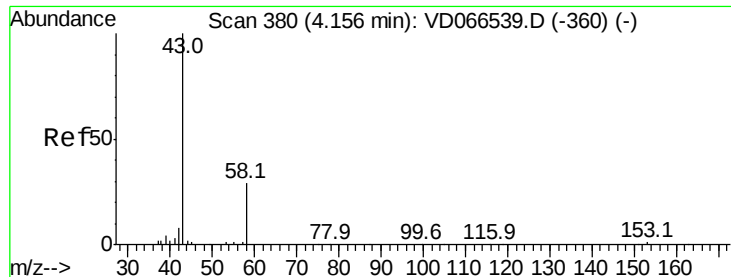
Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



Time--> 5.45 5.46 5.47 5.48





#16

Acetone

Concen: 15.636 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

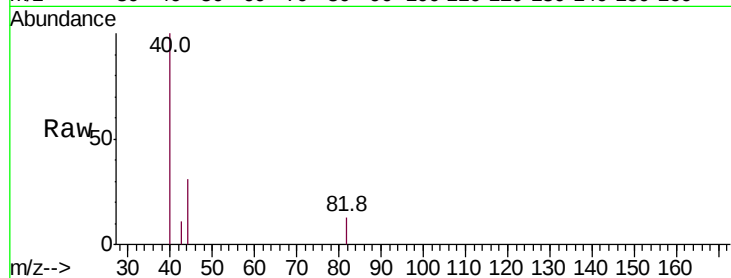
PAV-B44-090320-19-20

Tot Ion: 43 Resp: 475

Ion Ratio Lower Upper

43 100

58 0.0 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

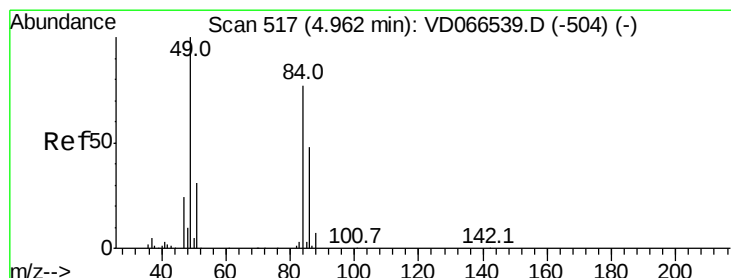
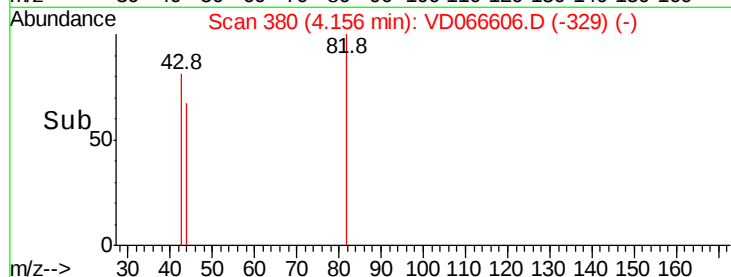
300

200

100

0

Time--> 4.10 4.12 4.14 4.16 4.18



#20

Methylene Chloride

Concen: 3.392 ug/l

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Tgt Ion: 84 Resp: 1583

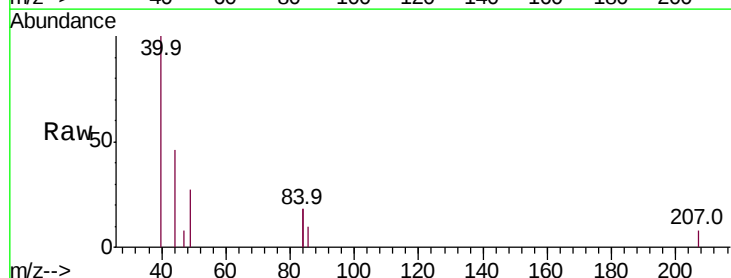
Ion Ratio Lower Upper

84 100

49 74.3 104.3 156.5#

51 0.0 32.2 48.4#

86 27.7 50.0 75.0#



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

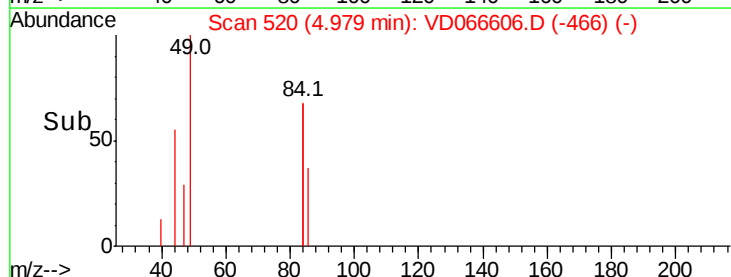
Ion 85.90 (85.60 to 86.60): VDC

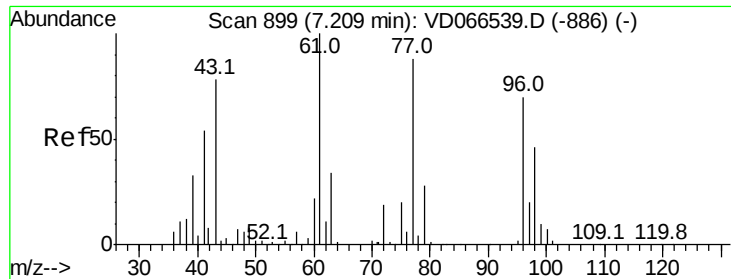
1000

500

0

Time--> 4.90 4.95 5.00

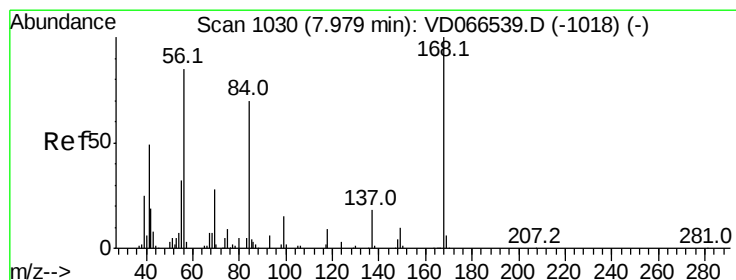
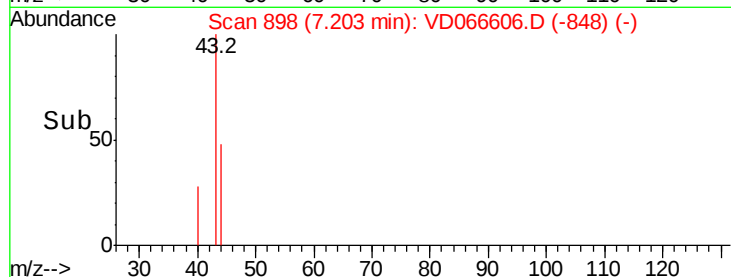
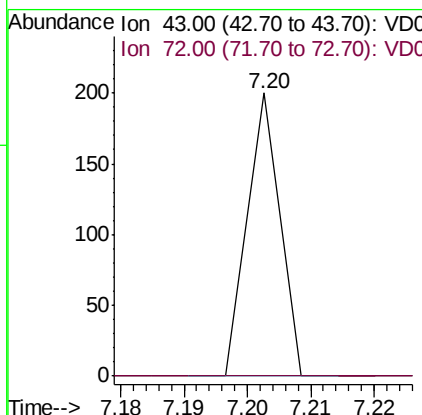
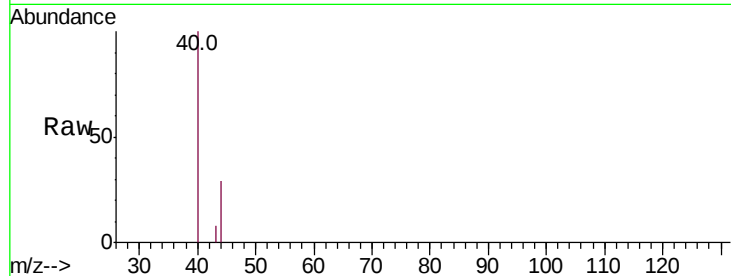




#25
2-Butanone
Concen: 1.741 ug/l
RT: 7.20 min Scan# 898
Delta R.T. -0.01 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

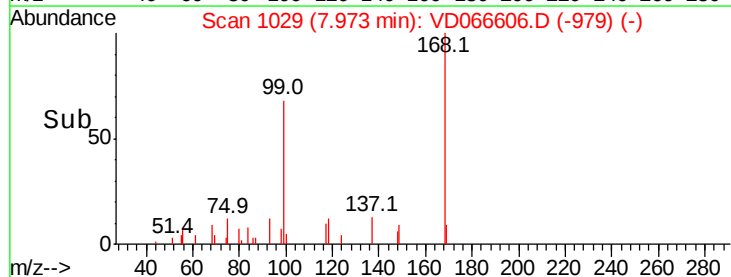
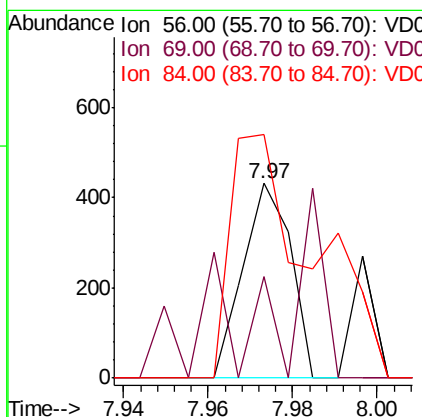
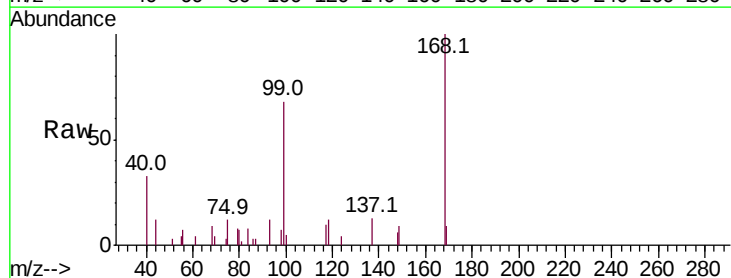
Instrument :
MSVOA_D
ClientSampleId :
PAV-B44-090320-19-20

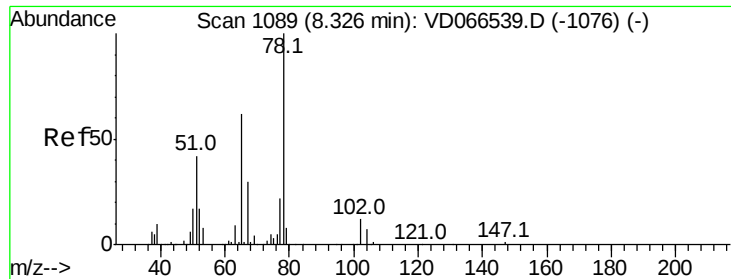
Tot Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#31
Cyclohexane
Concen: 1.259 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

Tgt Ion: 56 Resp: 339
Ion Ratio Lower Upper
56 100
69 51.9 26.3 39.5#
84 125.0 66.1 99.1#

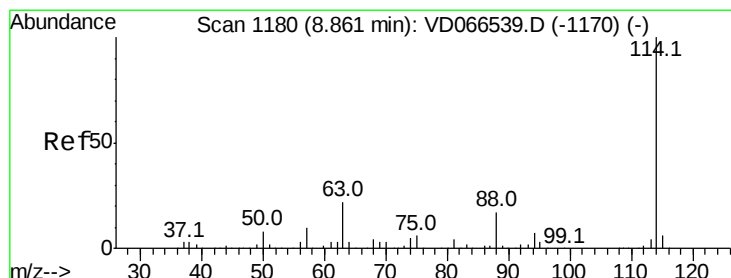
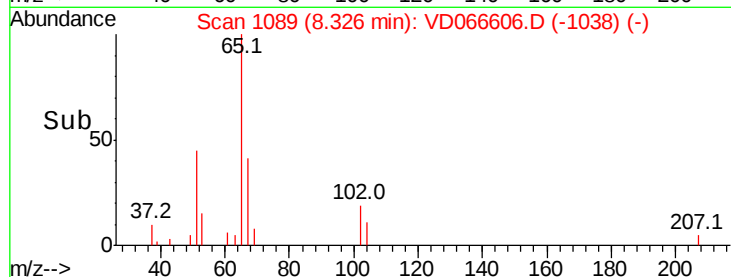
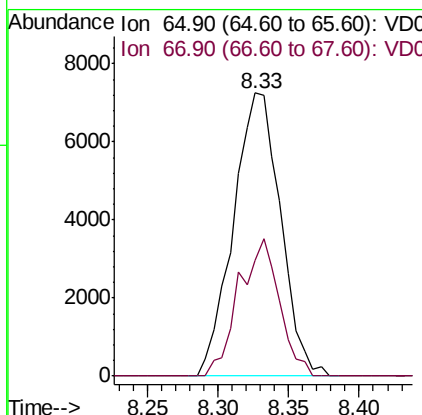
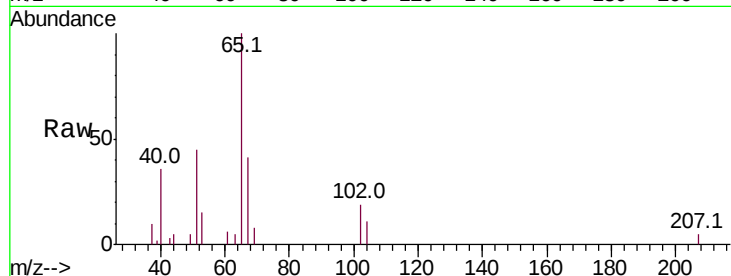




#33
 1,2-Dichloroethane-d4
 Concen: 102.814 ug/l
 RT: 8.33 min Scan# 1089
 Delta R.T. -0.00 min
 Lab File: VD066606.D
 Acq: 10 Sep 2020 03:33

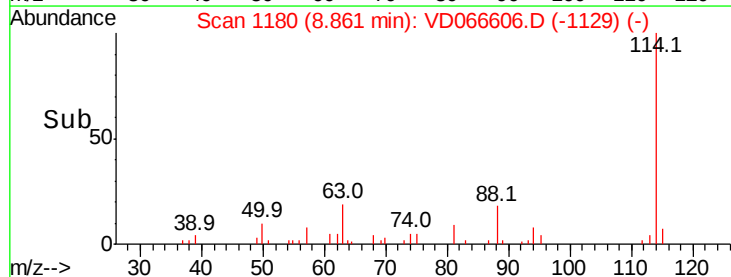
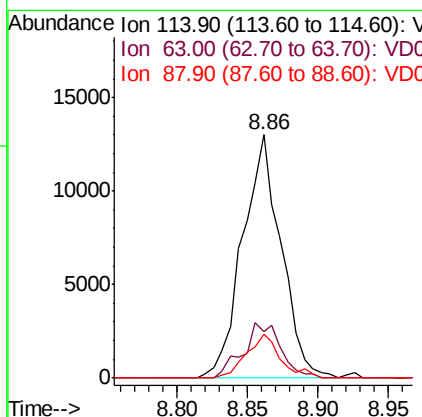
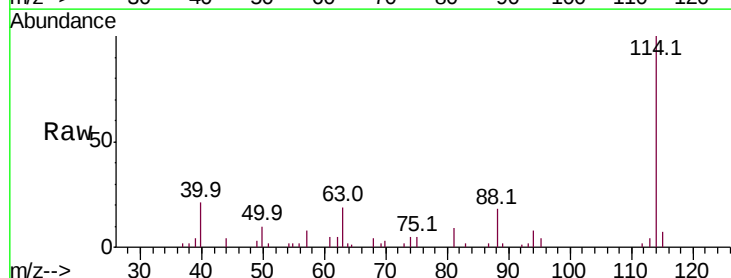
Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B44-090320-19-20

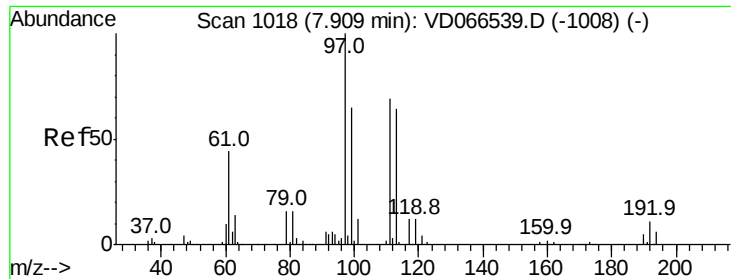
Tot Ion: 65 Resp: 16975
 Ion Ratio Lower Upper
 65 100
 67 41.8 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: VD066606.D
 Acq: 10 Sep 2020 03:33

Tgt Ion: 114 Resp: 24862
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 43.2
 88 18.1 0.0 33.2





#35

Dibromofluoromethane

Concen: 67.296 ug/l

RT: 7.91 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

PAV-B44-090320-19-20

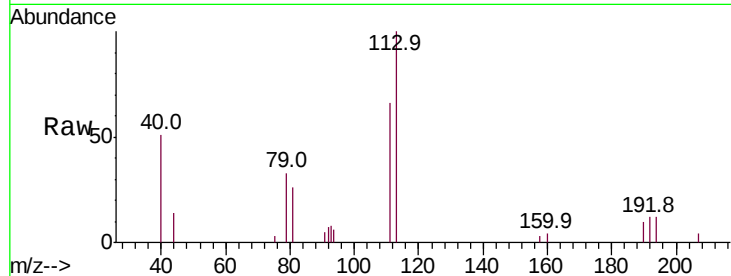
Tot Ion:113 Resp: 11287

Ion Ratio Lower Upper

113 100

111 103.6 83.2 124.8

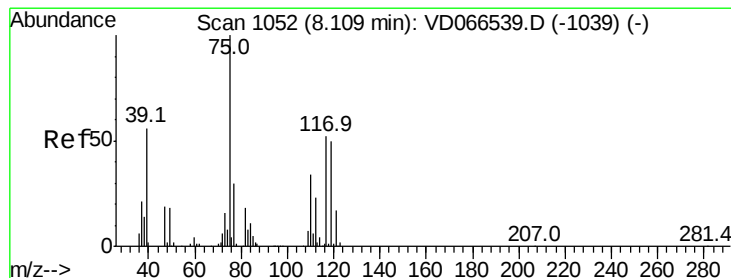
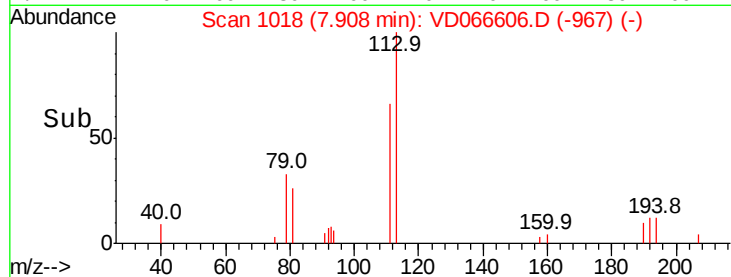
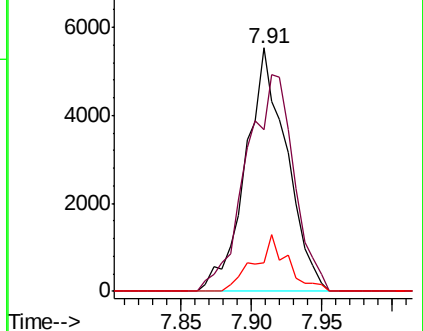
192 19.0 13.7 20.5



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: 4.993 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.14 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

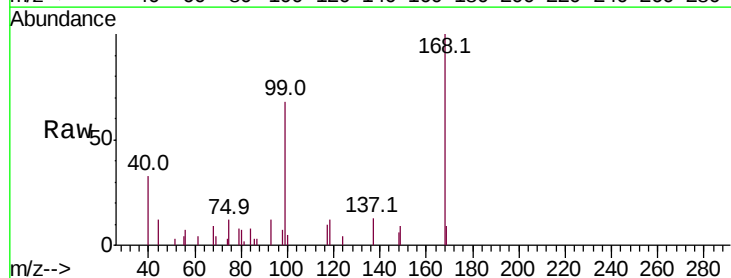
Tgt Ion: 75 Resp: 1292

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

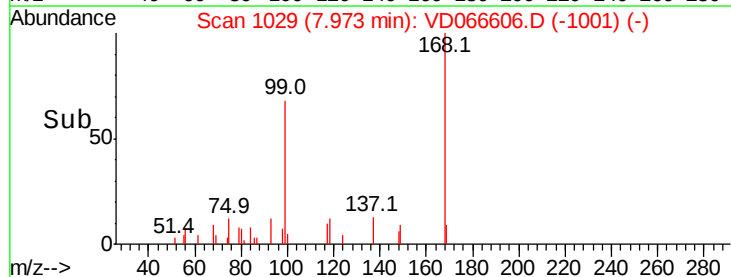
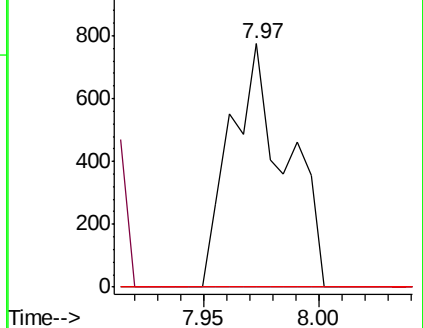
77 0.0 25.1 37.7#

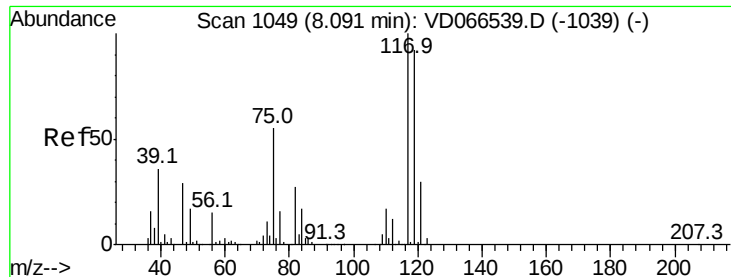


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.306 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

PAV-B44-090320-19-20

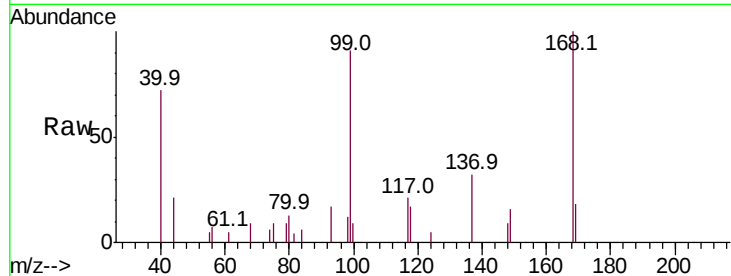
Tot Ion:117 Resp: 1451

Ion Ratio Lower Upper

117 100

119 0.0 73.9 110.9#

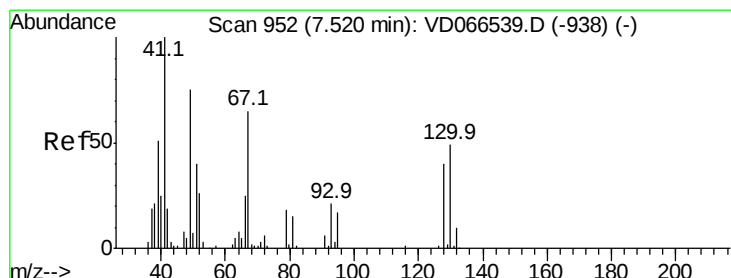
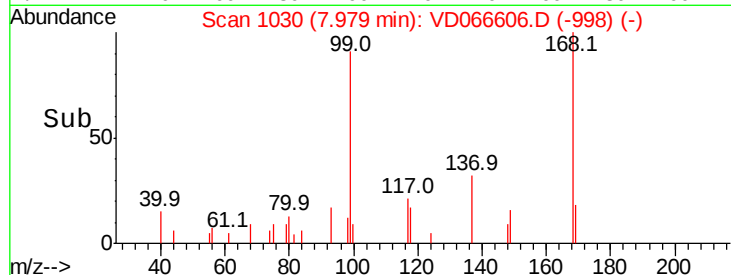
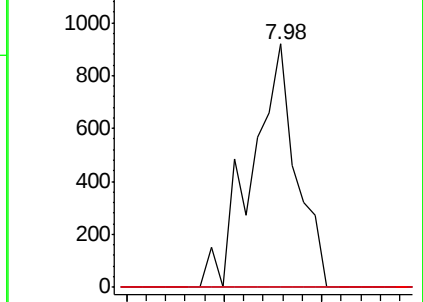
121 0.0 24.1 36.1#



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: 1.524 ug/l

RT: 7.50 min Scan# 948

Delta R.T. -0.02 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Tgt Ion: 41 Resp: 76

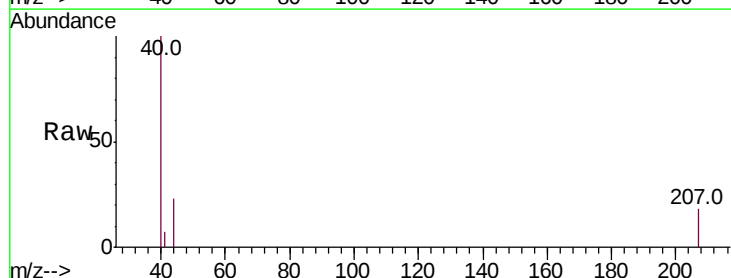
Ion Ratio Lower Upper

41 100

39 0.0 53.6 80.4#

67 0.0 59.2 88.8#

52 0.0 26.8 40.2#

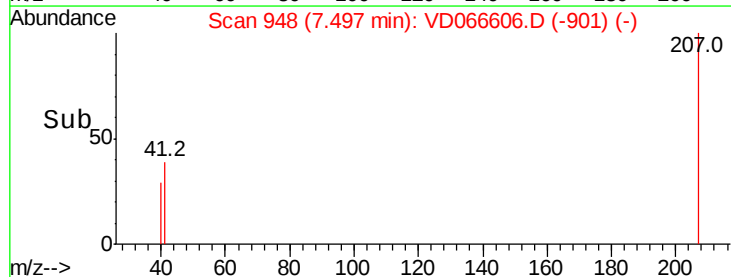
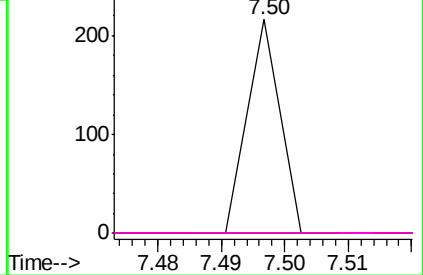


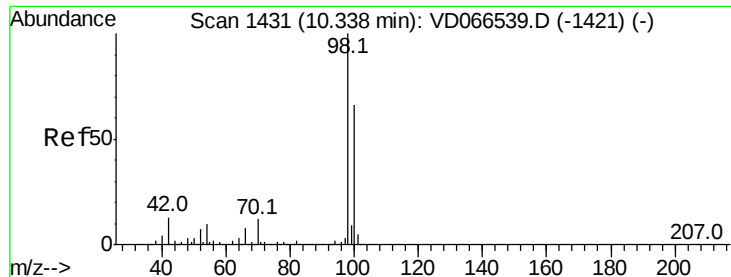
Abundance Ion 41.00 (40.70 to 41.70): VDC

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

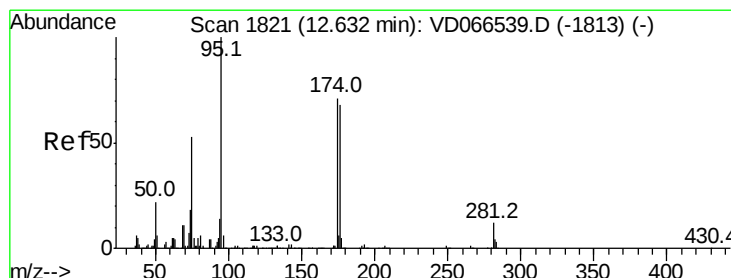
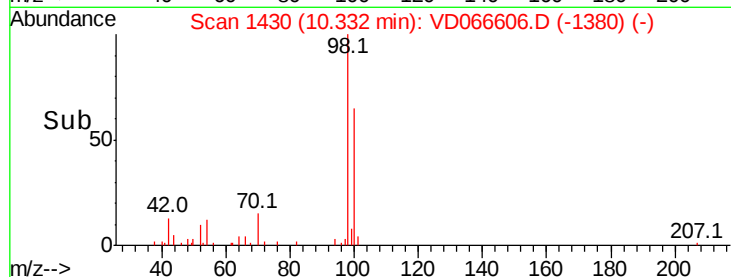
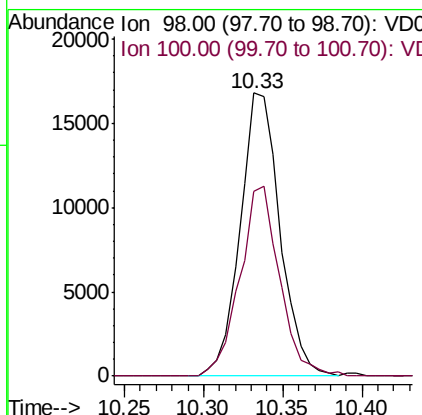
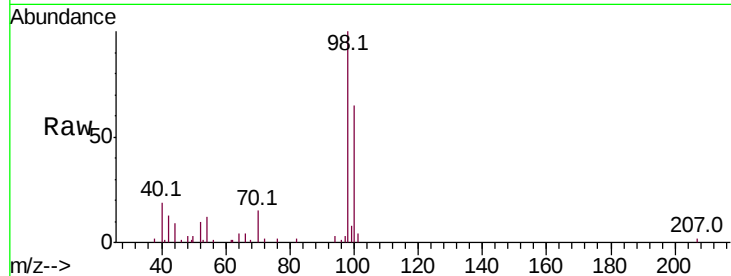




#50
Toluene-d8
Concen: 48.856 ug/l
RT: 10.33 min Scan# 1430
Delta R.T. -0.01 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

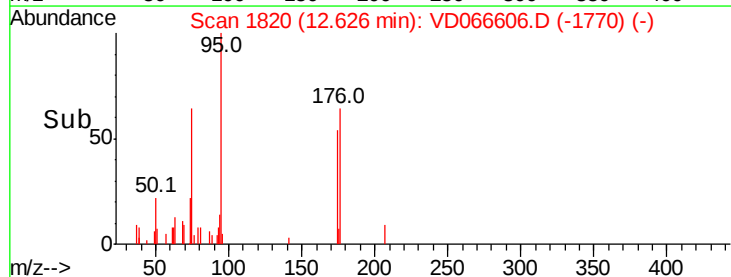
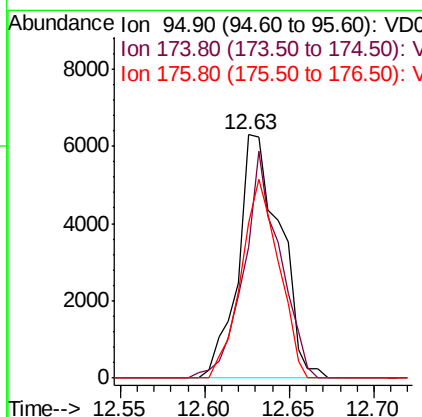
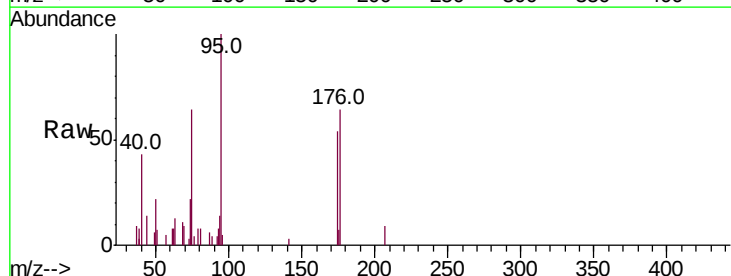
Instrument :
MSVOA_D
ClientSampleId :
PAV-B44-090320-19-20

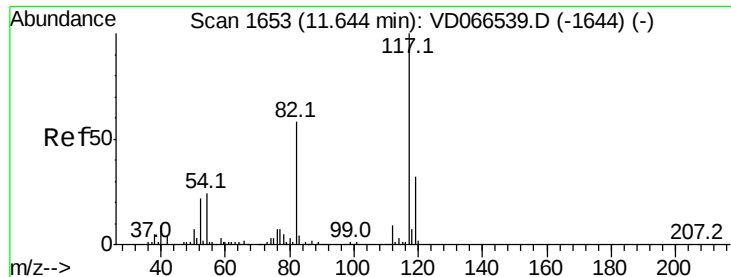
Tot Ion: 98 Resp: 29287
Ion Ratio Lower Upper
98 100
100 67.1 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 54.957 ug/l
RT: 12.63 min Scan# 1820
Delta R.T. -0.01 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

Tgt Ion: 95 Resp: 10924
Ion Ratio Lower Upper
95 100
174 79.7 0.0 155.8
176 73.2 0.0 148.6

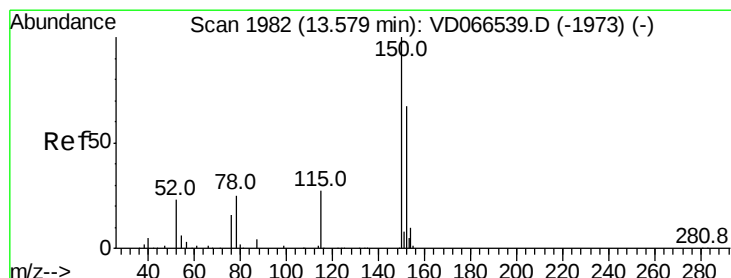
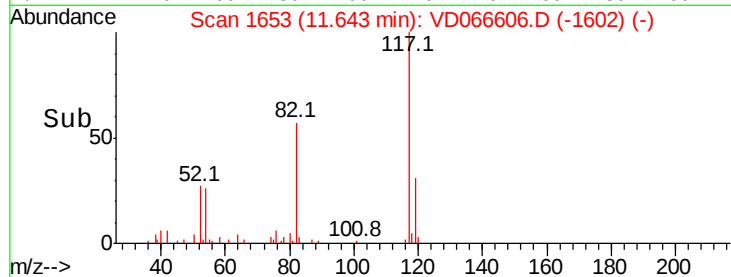
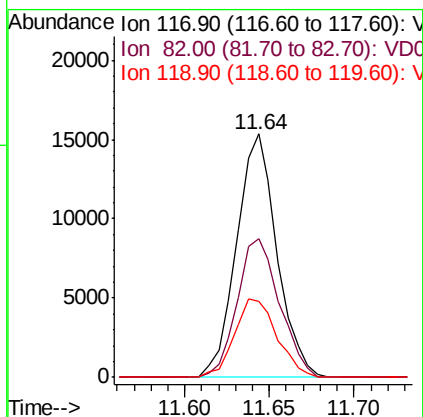
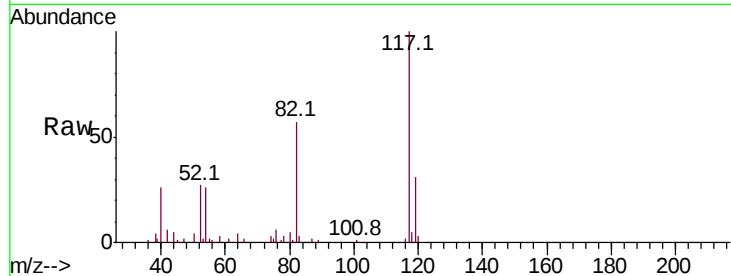




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

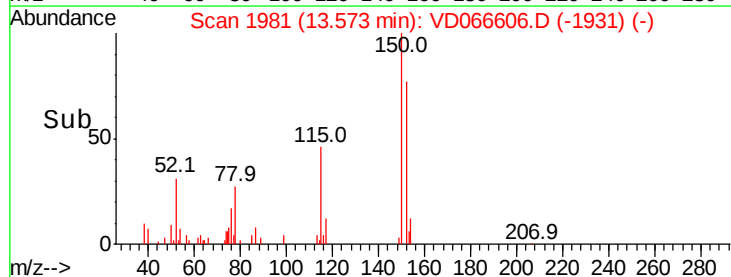
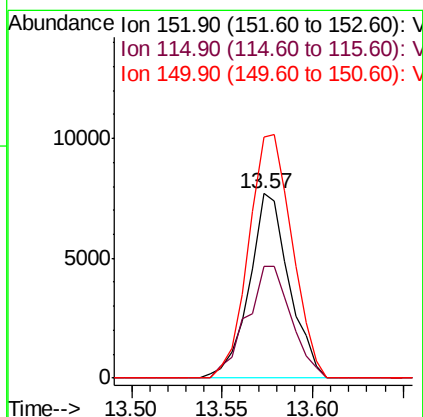
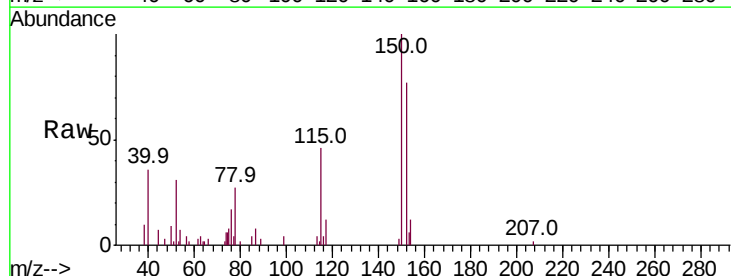
Instrument :
MSVOA_D
ClientSampleId :
PAV-B44-090320-19-20

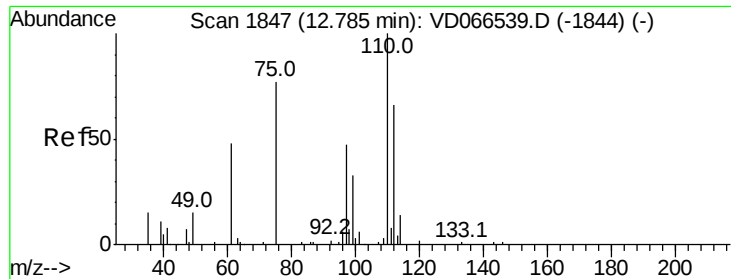
Tot Ion:117 Resp: 25443
Ion Ratio Lower Upper
117 100
82 56.8 46.2 69.2
119 31.0 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.01 min
Lab File: VD066606.D
Acq: 10 Sep 2020 03:33

Tgt Ion:152 Resp: 11808
Ion Ratio Lower Upper
152 100
115 67.3 30.4 91.2
150 142.9 0.0 345.8





#76

1,2,3-Trichloropropane

Concen: 55.186 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. -0.16 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

Instrument :

MSVOA_D

ClientSampleId :

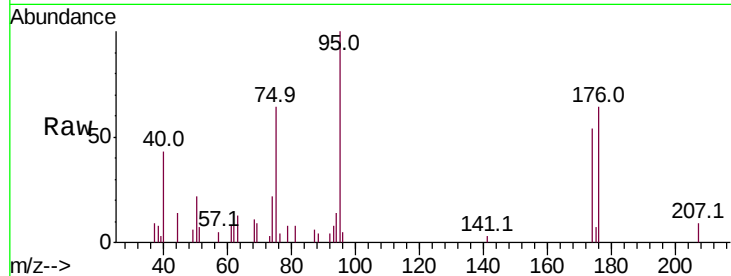
PAV-B44-090320-19-20

Tot Ion: 75 Resp: 6267

Ion Ratio Lower Upper

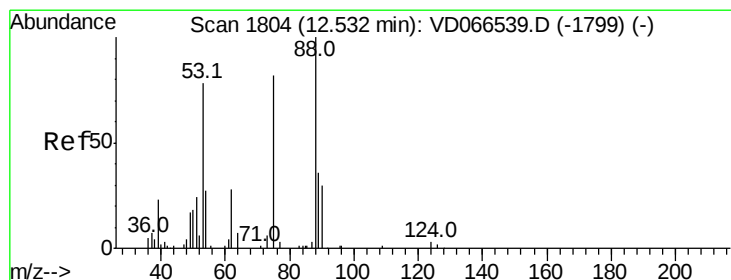
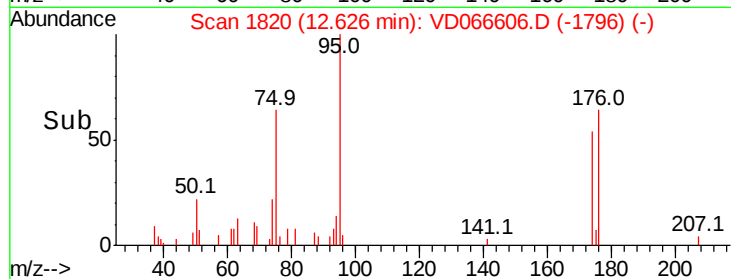
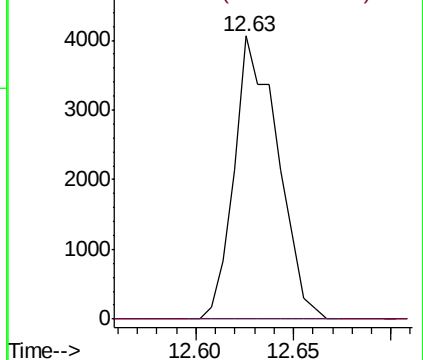
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 128.840 ug/l

RT: 12.63 min Scan# 1820

Delta R.T. 0.09 min

Lab File: VD066606.D

Acq: 10 Sep 2020 03:33

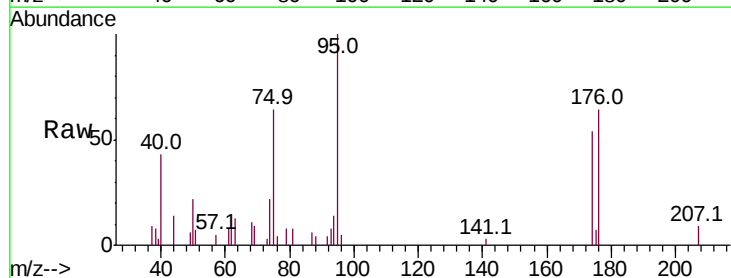
Tgt Ion: 75 Resp: 6267

Ion Ratio Lower Upper

75 100

53 0.0 87.0 130.4#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

