

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092018\
 Data File : VD060054.D
 Acq On : 20 Sep 2018 18:08
 Operator : VA/AP
 Sample : J5017-02
 Misc : 5.10g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056

Quant Time: Sep 21 01:00:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1122158	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	7.43	114	1641257	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	1157234	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	392938	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	388214	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	
35) Dibromofluoromethane	6.31	113	530229	41.35	ug/l	0.01
Spiked Amount			Recovery	=	82.70%	
50) Toluene-d8	9.44	98	1223598	34.43	ug/l	0.00
Spiked Amount			Recovery	=	68.86%	
62) 4-Bromofluorobenzene	12.43	95	381432	28.10	ug/l	0.01
Spiked Amount			Recovery	=	56.20%	

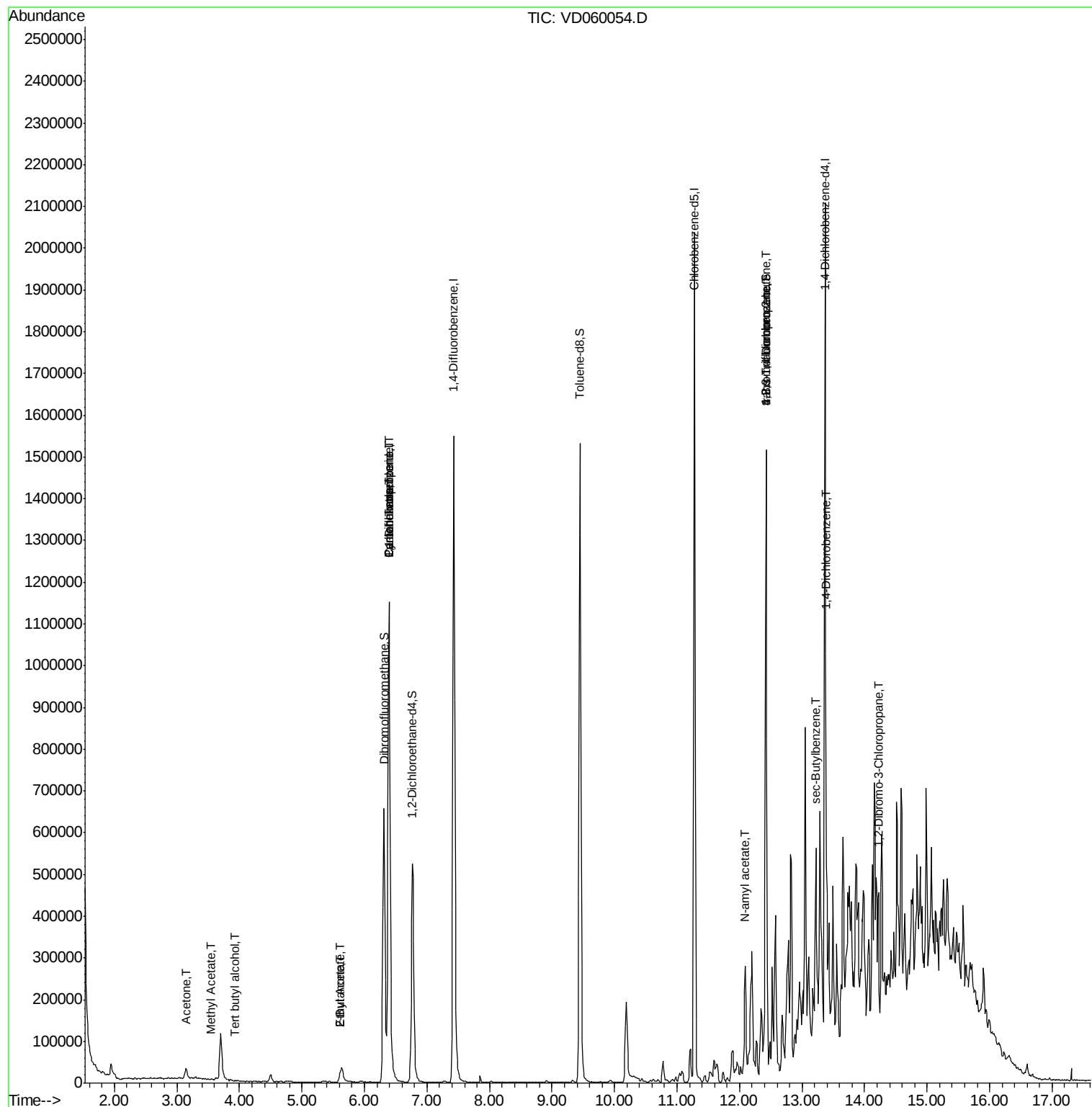
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.92	59	3069	4.35	ug/l #	74
16) Acetone	3.15	43	47216	27.95	ug/l	98
18) Methyl Acetate	3.53	43	5246	1.53	ug/l #	64
20) Methylene Chloride	3.71	84	70798	Below Cal		99
25) 2-Butanone	5.61	43	32422	7.11	ug/l	96
31) Cyclohexane	6.39	56	21406	1.10	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	81123	4.98	ug/l #	46
37) Ethyl Acetate	5.61	43	32422	2.89	ug/l #	72
38) Carbon Tetrachloride	6.39	117	84568	5.56	ug/l #	15
51) 4-Methyl-2-Pentanone	9.34	43	6310	Below Cal	#	86
59) 2-Hexanone	10.49	43	2543	Below Cal		95
74) N-amyl acetate	12.09	43	51805	5.07	ug/l #	64
76) 1,2,3-Trichloropropane	12.43	75	140498	23.41	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.43	75	150719	83.20	ug/l #	16
85) sec-Butylbenzene	13.22	105	46375	1.71	ug/l	91
88) 1,4-Dichlorobenzene	13.39	146	14628	1.12	ug/l #	71
91) 1,2-Dichlorobenzene	13.66	146	1380	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.22	75	1554	1.74	ug/l #	1

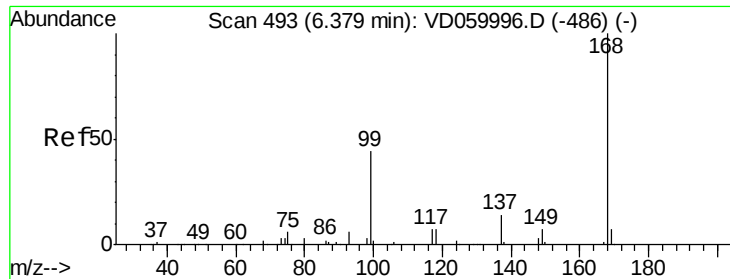
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092018\
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Quant Title : SW846 8260
QLast Update : Thu Sep 13 16:17:40 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.39 min Scan# 495

Delta R.T. 0.01 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

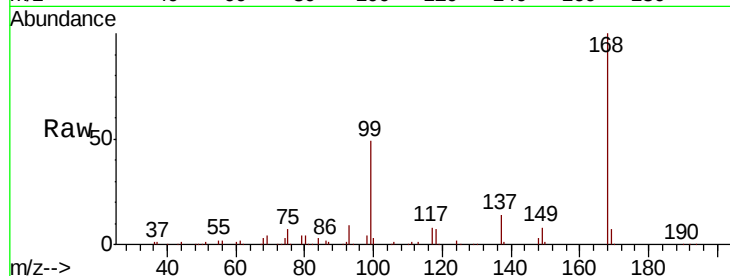
RA-091918-N-FL-056

Tot Ion:168 Resp: 1122158

Ion Ratio Lower Upper

168 100

99 49.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

400000

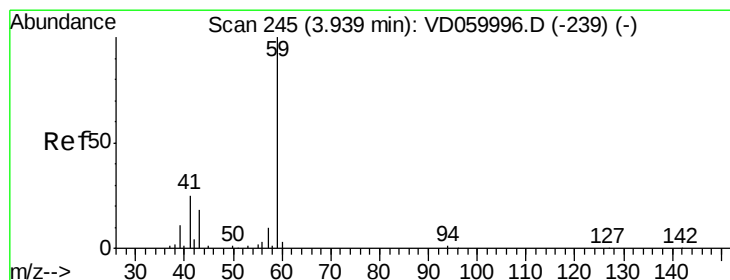
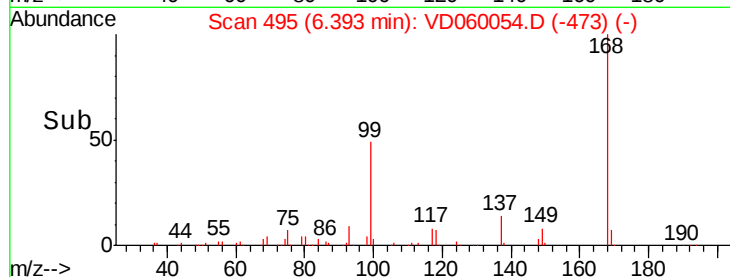
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.35 ug/l

RT: 3.92 min Scan# 244

Delta R.T. -0.02 min

Lab File: VD060054.D

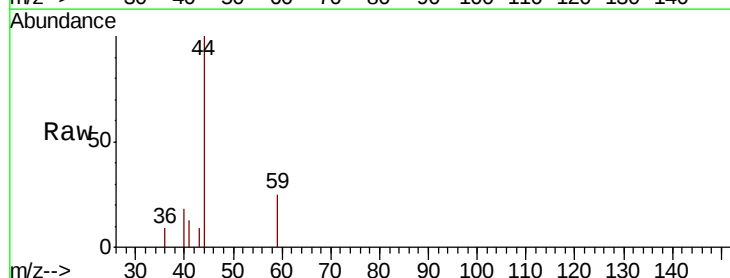
Acq: 20 Sep 2018 18:08

Tgt Ion: 59 Resp: 3069

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

1000

800

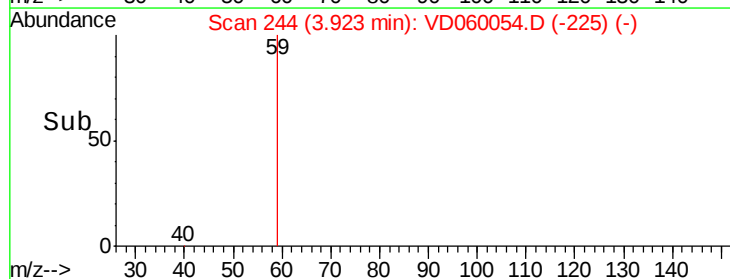
600

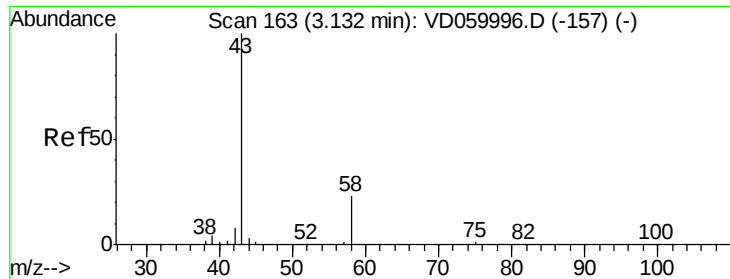
400

200

0

Time-->





#16

Acetone

Concen: 27.95 ug/l

RT: 3.15 min Scan# 165

Delta R.T. 0.01 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

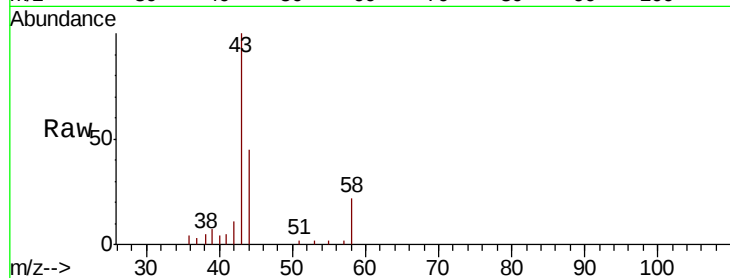
RA-091918-N-FL-056

Tot Ion: 43 Resp: 47216

Ion Ratio Lower Upper

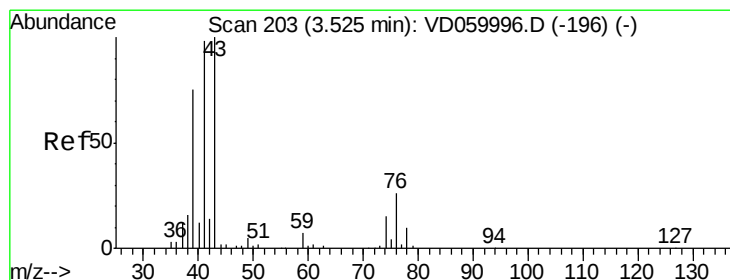
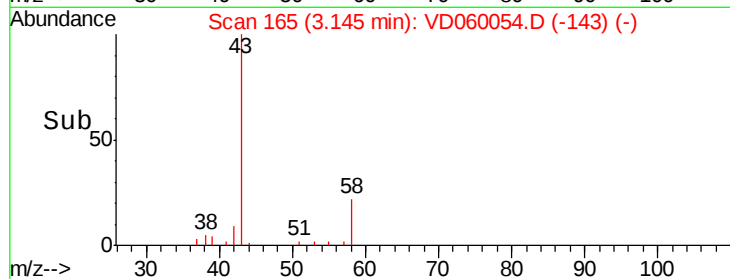
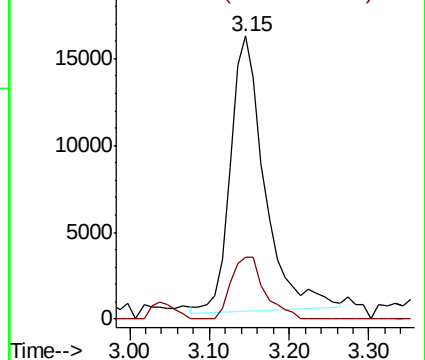
43 100

58 21.9 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.53 ug/l

RT: 3.53 min Scan# 204

Delta R.T. 0.00 min

Lab File: VD060054.D

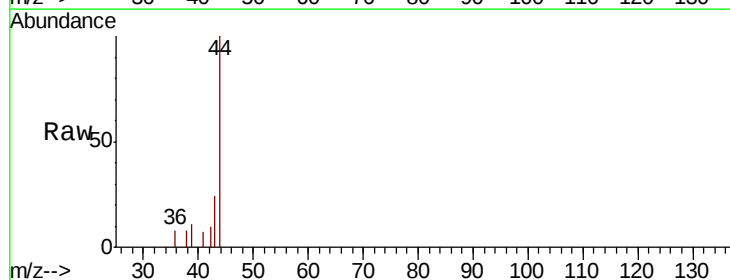
Acq: 20 Sep 2018 18:08

Tgt Ion: 43 Resp: 5246

Ion Ratio Lower Upper

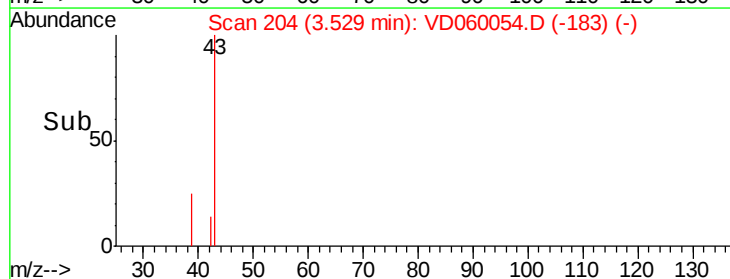
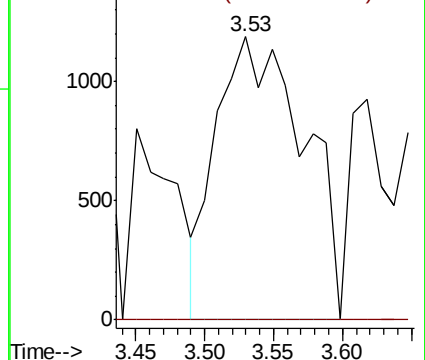
43 100

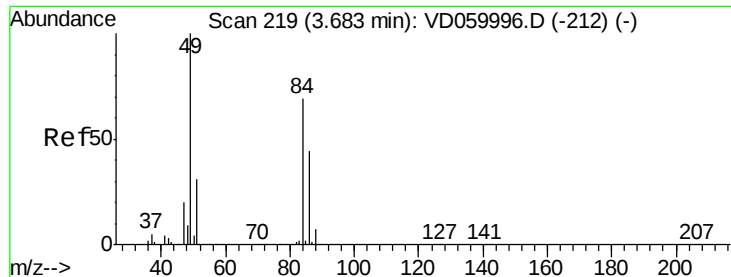
74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

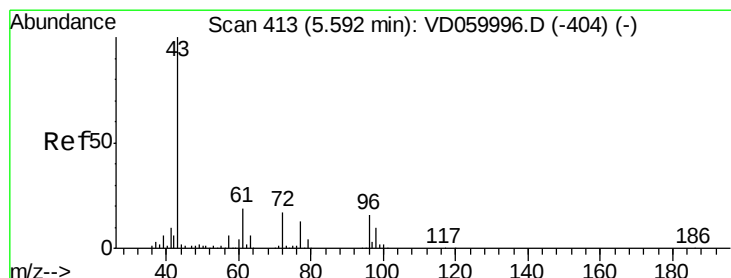
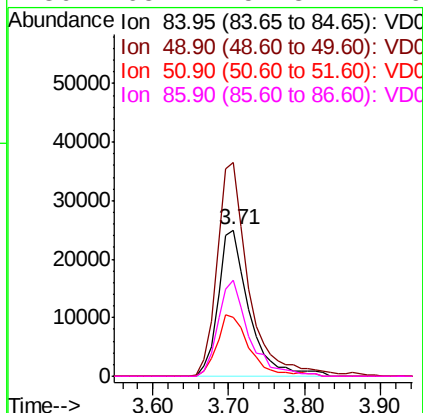
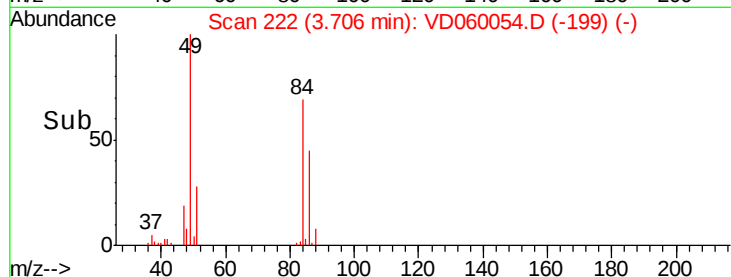
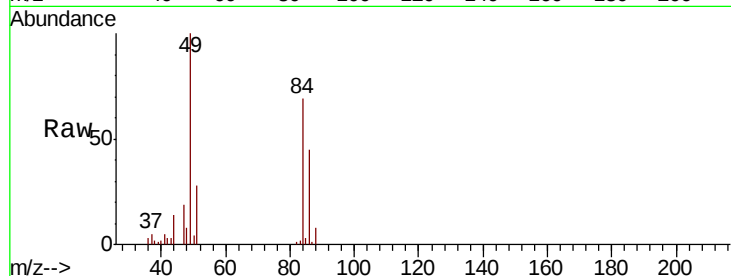




#20
Methylene Chloride
Concen: Below Cal
RT: 3.71 min Scan# 222
Delta R.T. 0.02 min
Lab File: VD060054.D
Acq: 20 Sep 2018 18:08

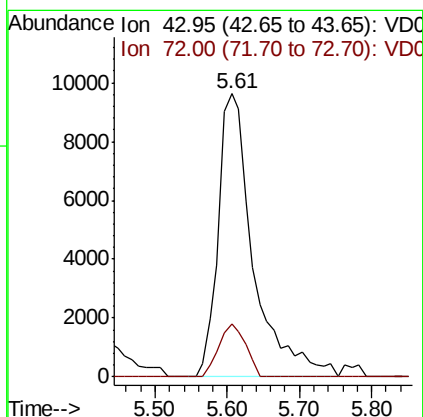
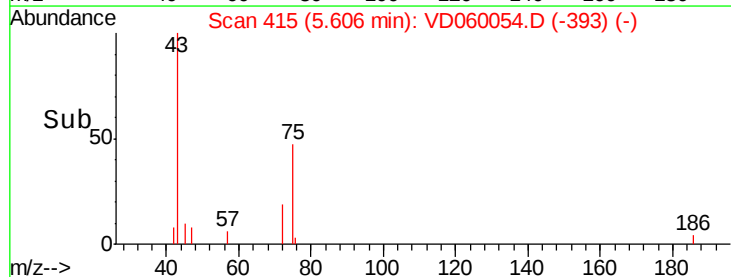
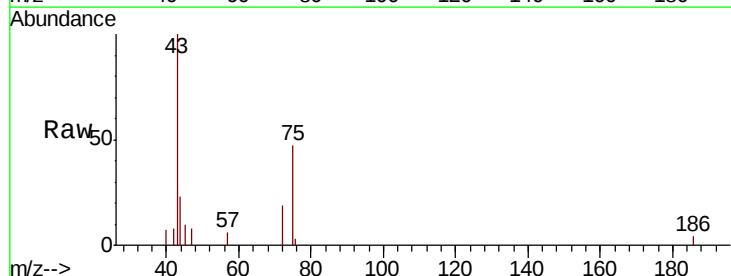
Instrument :
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RA-091918-N-FL-056

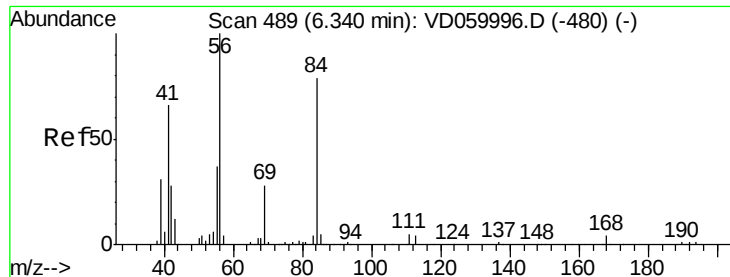
Tot Ion: 84 Resp: 70798
Ion Ratio Lower Upper
84 100
49 145.9 116.6 175.0
51 40.4 35.9 53.9
86 65.2 51.8 77.6



#25
2-Butanone
Concen: 7.11 ug/l
RT: 5.61 min Scan# 415
Delta R.T. 0.01 min
Lab File: VD060054.D
Acq: 20 Sep 2018 18:08

Tgt Ion: 43 Resp: 32422
Ion Ratio Lower Upper
43 100
72 18.9 13.6 20.4

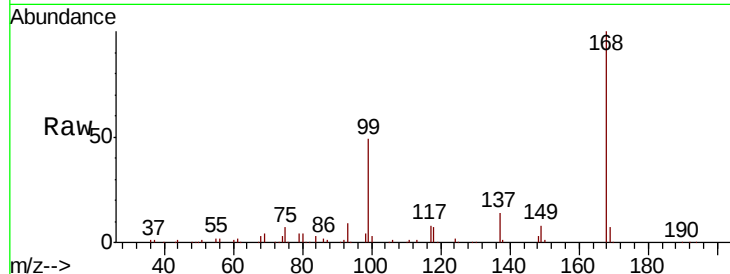




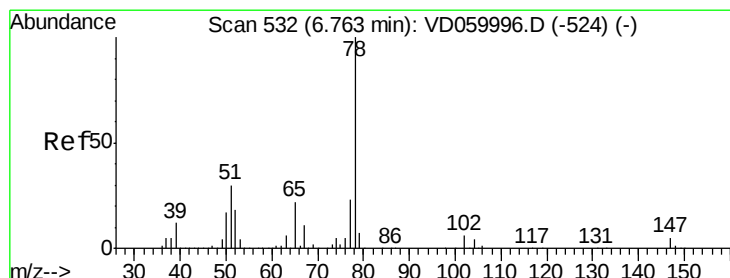
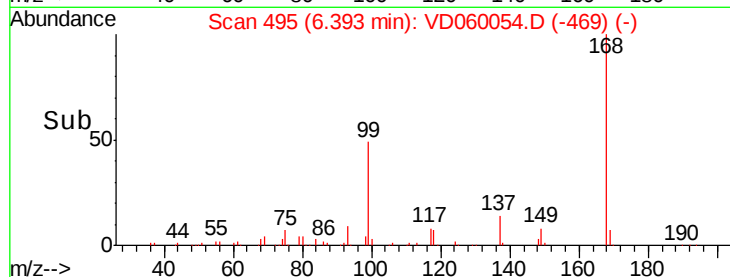
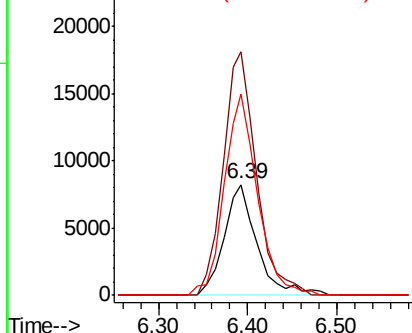
#31
Cyclohexane
Concen: 1.10 ug/l
RT: 6.39 min Scan# 495
Delta R.T. 0.05 min
Lab File: VD060054.D
Acq: 20 Sep 2018 18:08

Instrument :
MSVOA_D
ClientSampleId :
RA-091918-N-FL-056

Tot Ion: 56 Resp: 21406
Ion Ratio Lower Upper
56 100
69 219.2 22.7 34.1#
84 181.3 64.0 96.0#

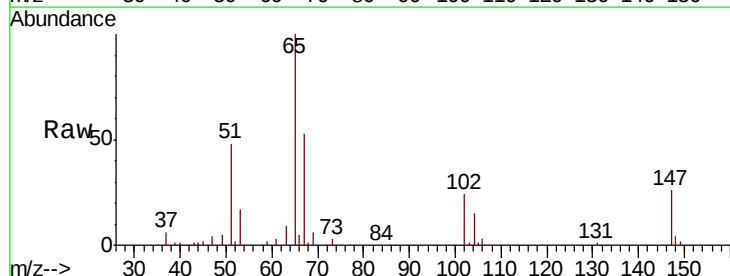


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

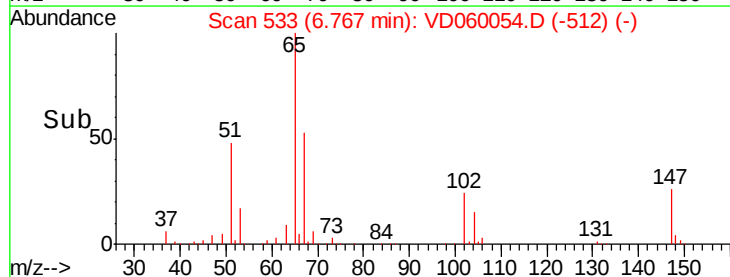
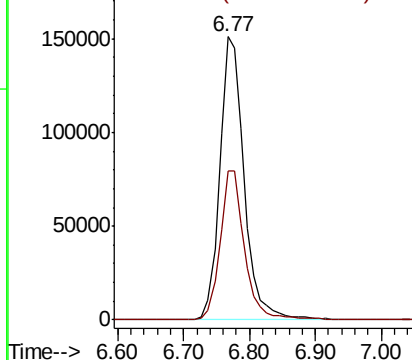


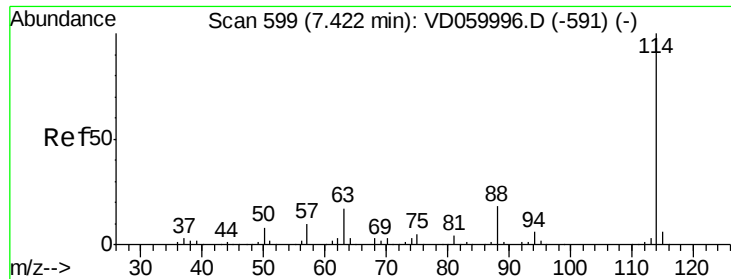
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.77 min Scan# 533
Delta R.T. 0.00 min
Lab File: VD060054.D
Acq: 20 Sep 2018 18:08

Tgt Ion: 65 Resp: 388214
Ion Ratio Lower Upper
65 100
67 52.6 0.0 104.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

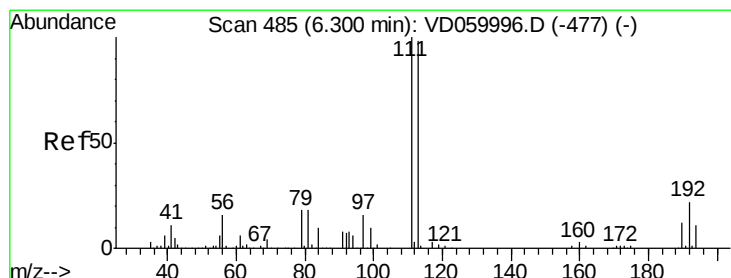
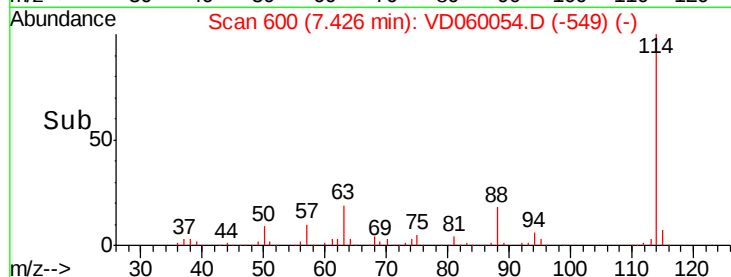
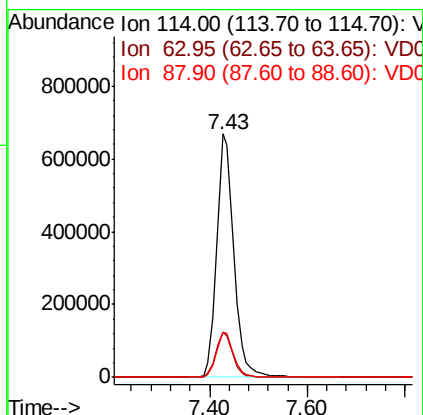
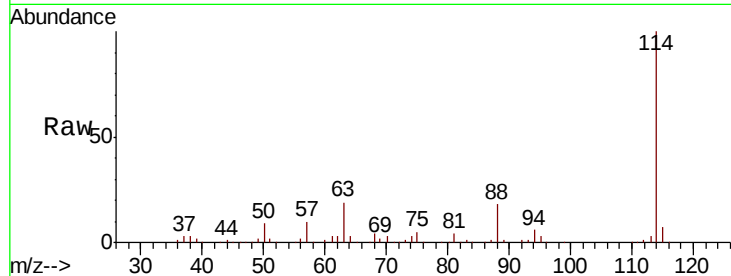




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 7.43 min Scan# 600
 Delta R.T. 0.00 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

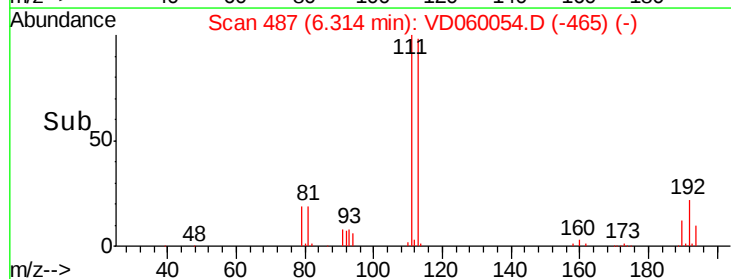
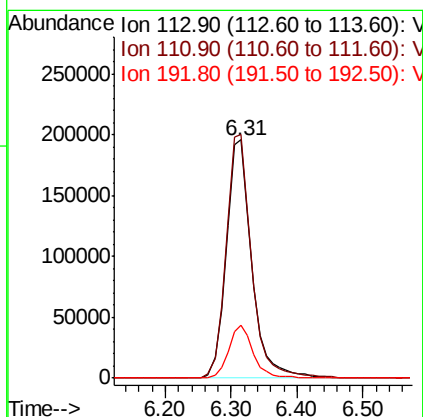
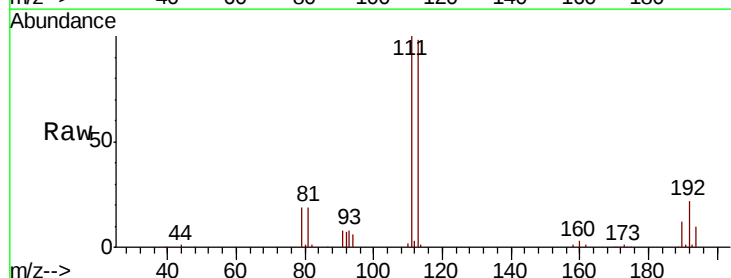
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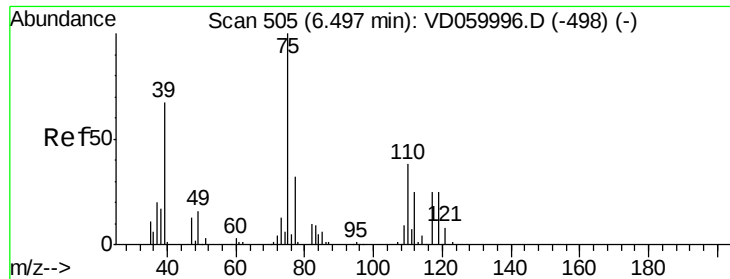
Tot Ion:114 Resp: 1641257
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 34.4
 88 18.5 0.0 35.8



#35
 Dibromofluoromethane
 Concen: 50.00 ug/l
 RT: 6.31 min Scan# 487
 Delta R.T. 0.01 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

Tgt Ion:113 Resp: 530229
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.3 121.9
 192 22.1 18.1 27.1

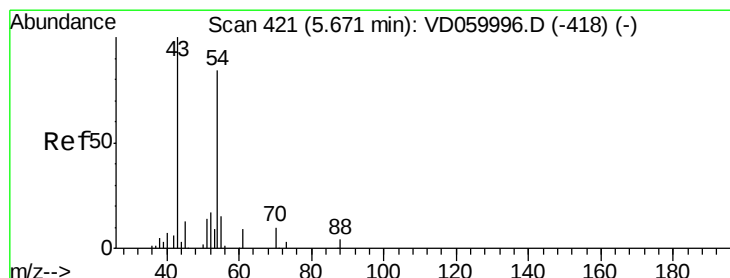
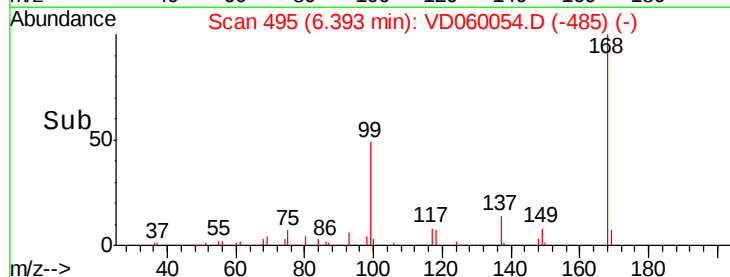
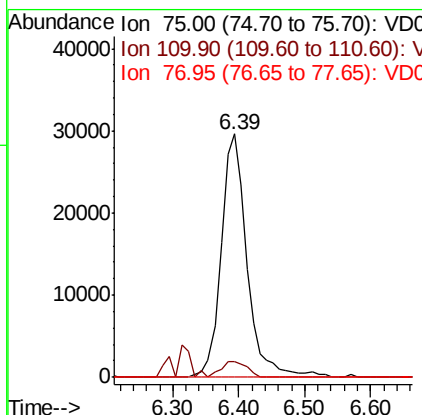
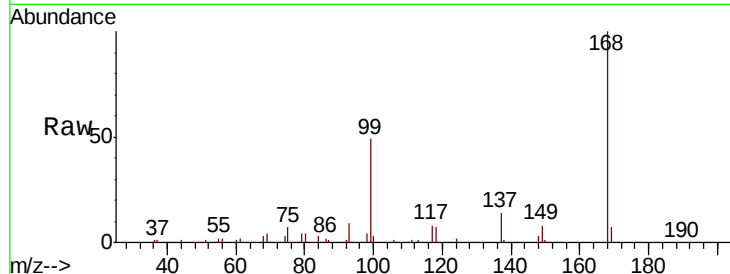




#36
 1,1-Dichloropropene
 Concen: 4.98 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.10 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

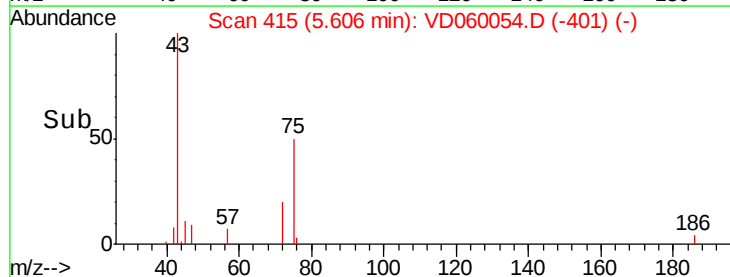
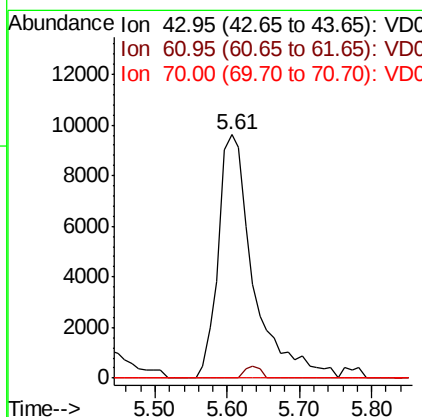
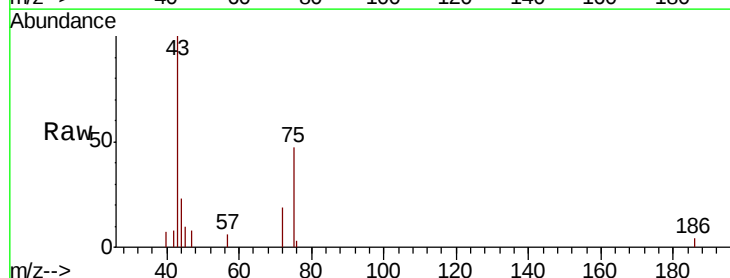
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 RA-091918-N-FL-056

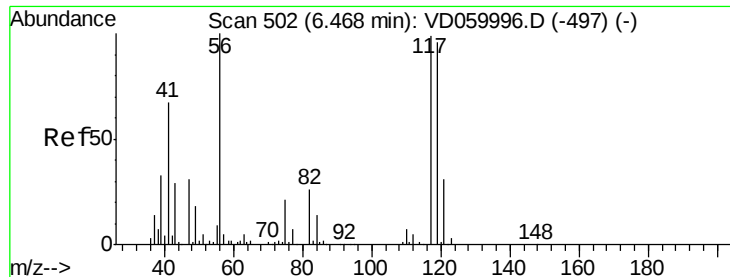
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.5	18.9	56.9#
77	0.0	25.3	37.9#



#37
 Ethyl Acetate
 Concen: 2.89 ug/l
 RT: 5.61 min Scan# 415
 Delta R.T. -0.06 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.2#
70	0.0	6.1	9.1#





#38

Carbon Tetrachloride

Concen: 5.56 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.07 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056

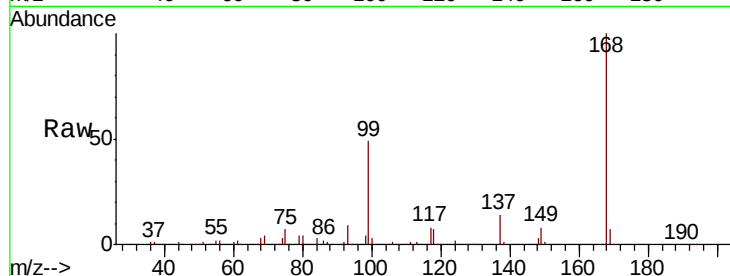
Tot Ion:117 Resp: 84568

Ion Ratio Lower Upper

117 100

119 4.4 76.7 115.1#

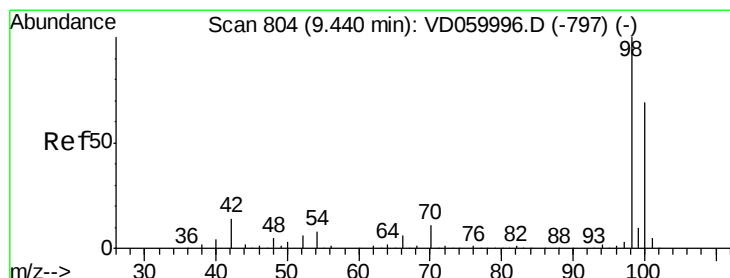
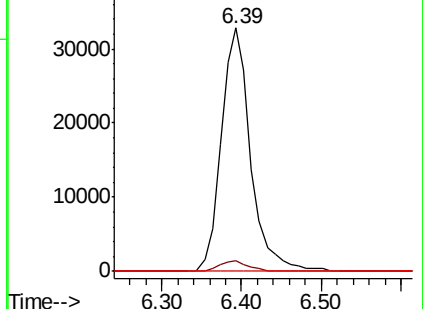
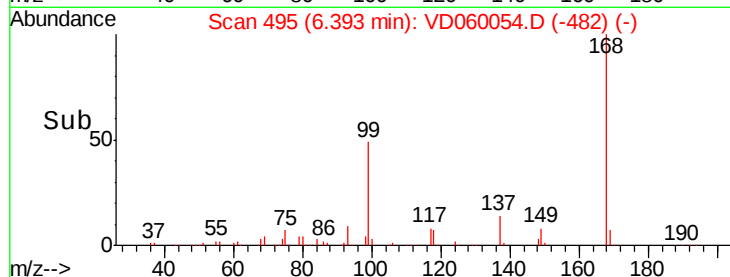
121 0.0 24.9 37.3#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 805

Delta R.T. 0.00 min

Lab File: VD060054.D

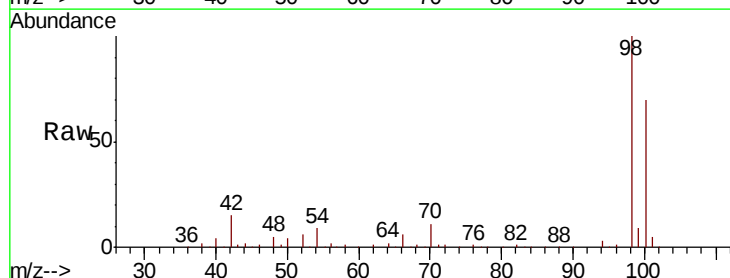
Acq: 20 Sep 2018 18:08

Tgt Ion: 98 Resp: 1223598

Ion Ratio Lower Upper

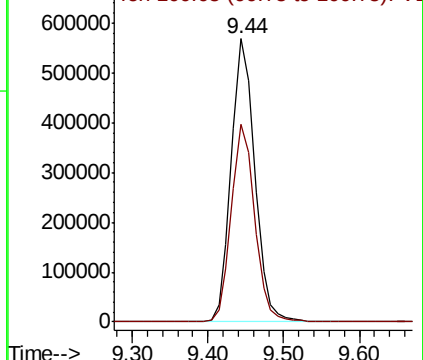
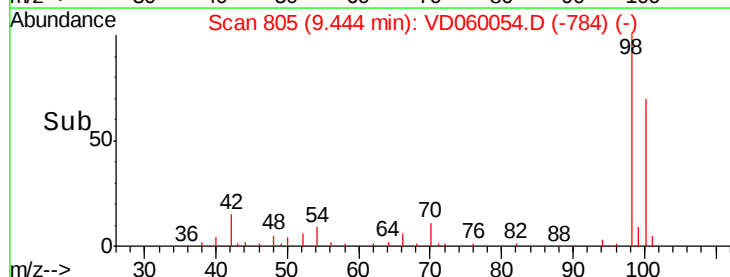
98 100

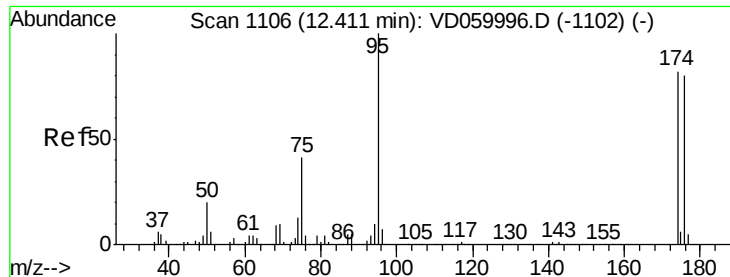
100 69.7 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

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ClientSampleId :

RA-091918-N-FL-056

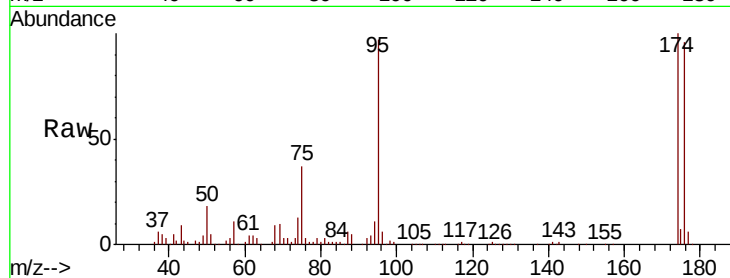
Tot Ion: 95 Resp: 381432

Ion Ratio Lower Upper

95 100

174 102.6 0.0 165.0

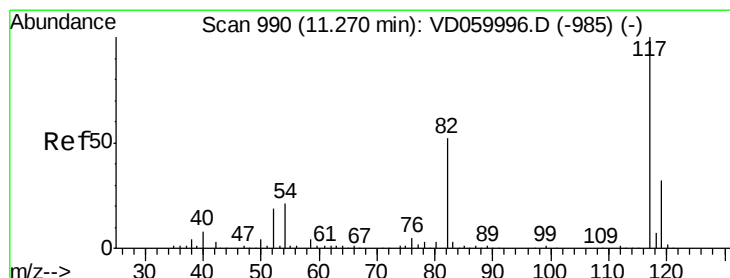
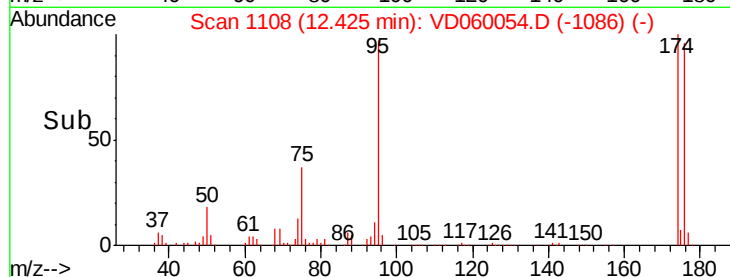
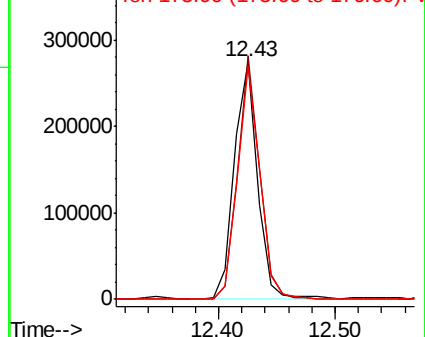
176 98.4 0.0 160.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.27 min Scan# 991

Delta R.T. 0.00 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

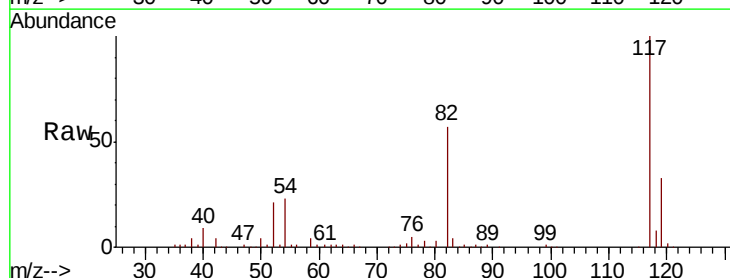
Tgt Ion: 117 Resp: 1157234

Ion Ratio Lower Upper

117 100

82 56.7 41.7 62.5

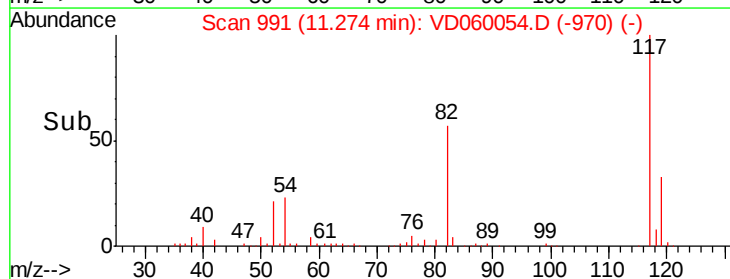
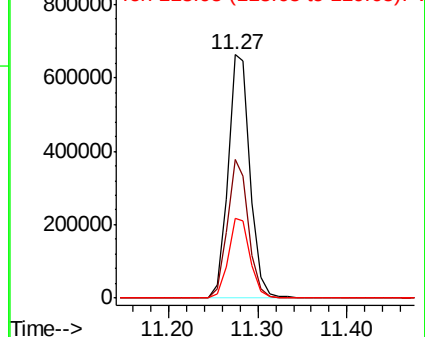
119 32.7 26.0 39.0

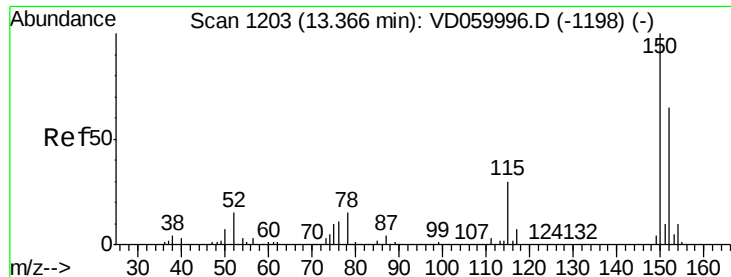


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1204

Delta R.T. 0.00 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-N-FL-056

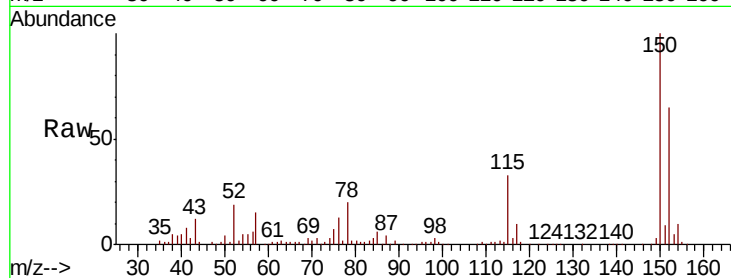
Tot Ion:152 Resp: 392938

Ion Ratio Lower Upper

152 100

115 49.9 24.6 73.8

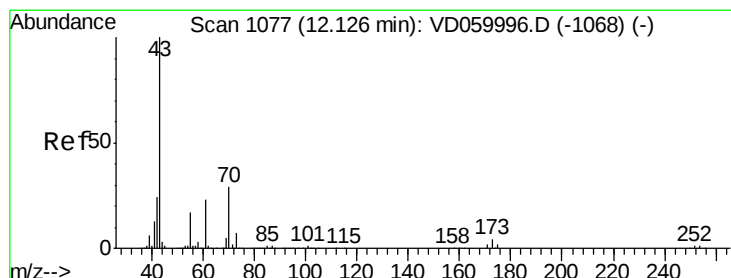
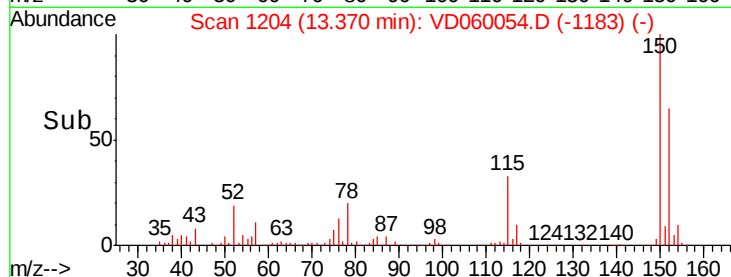
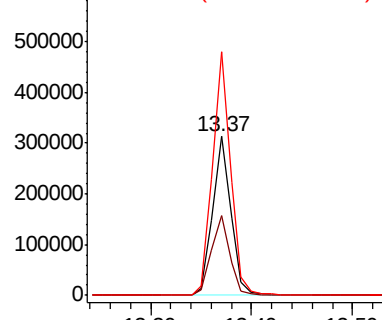
150 153.2 0.0 313.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 5.07 ug/l

RT: 12.09 min Scan# 1074

Delta R.T. -0.04 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Tgt Ion: 43 Resp: 51805

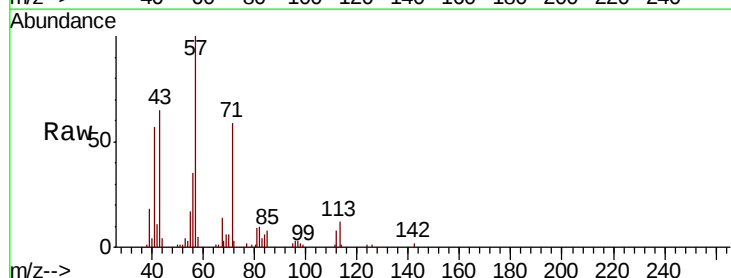
Ion Ratio Lower Upper

43 100

70 9.9 22.9 34.3#

55 26.0 14.0 21.0#

61 0.0 18.7 28.1#

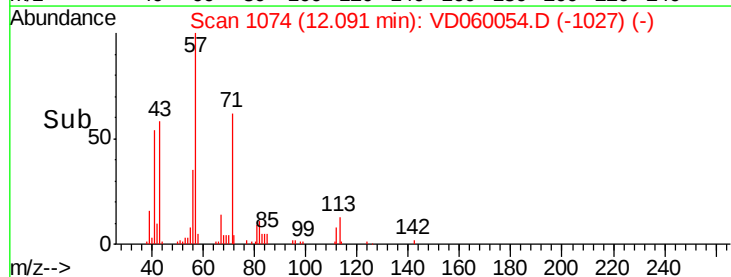
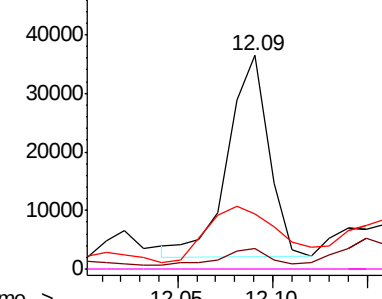


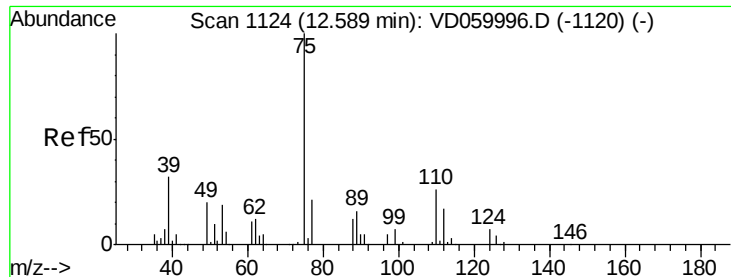
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 23.41 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. -0.16 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

Instrument :

MSVOA_D

ClientSampleId :

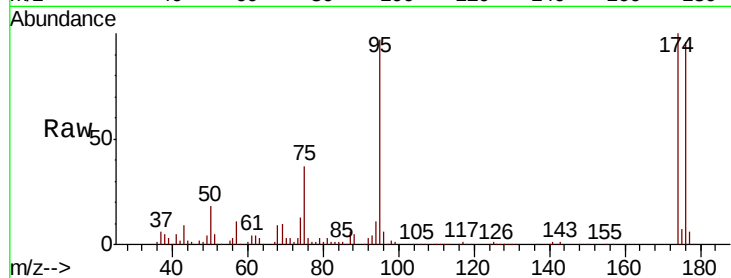
RA-091918-N-FL-056

Tot Ion: 75 Resp: 140498

Ion Ratio Lower Upper

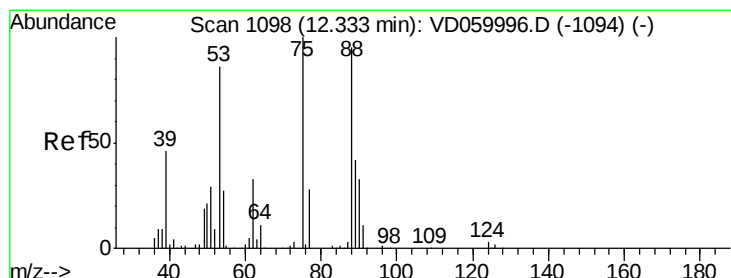
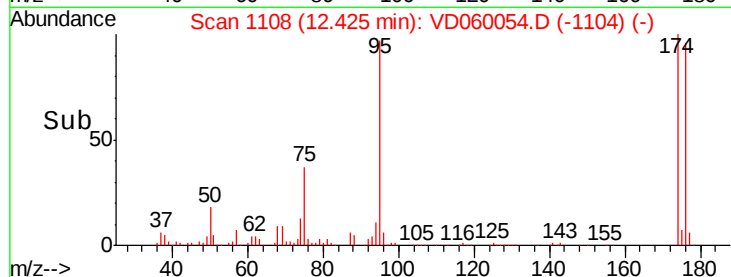
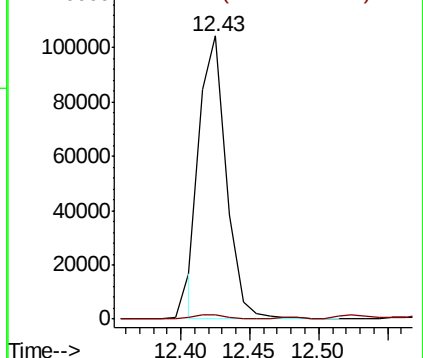
75 100

77 1.5 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 83.20 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.09 min

Lab File: VD060054.D

Acq: 20 Sep 2018 18:08

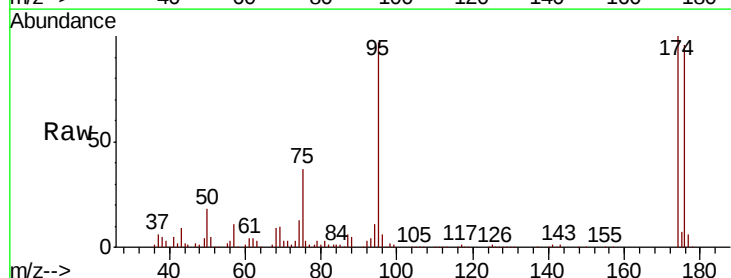
Tgt Ion: 75 Resp: 150719

Ion Ratio Lower Upper

75 100

53 1.0 68.4 102.6#

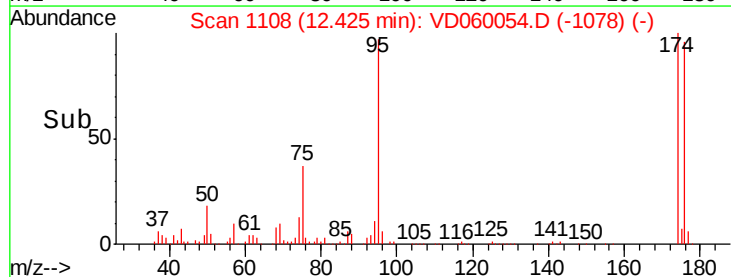
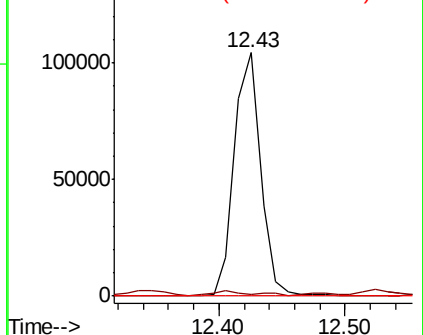
89 0.0 33.8 50.6#

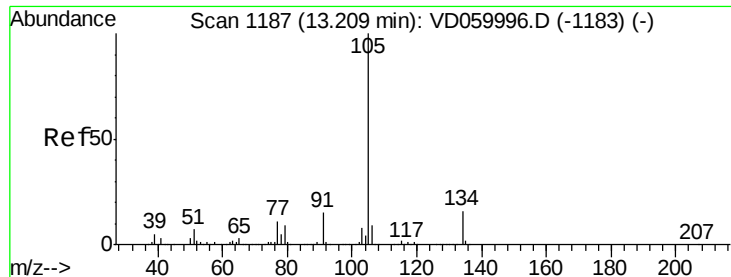


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

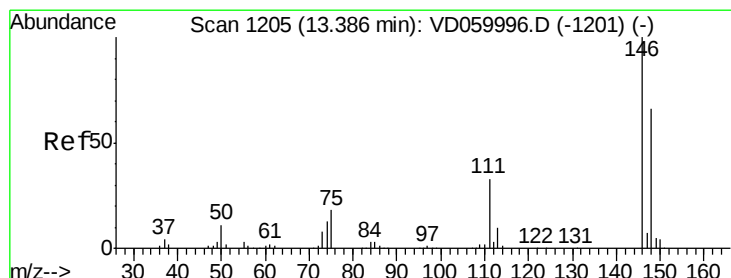
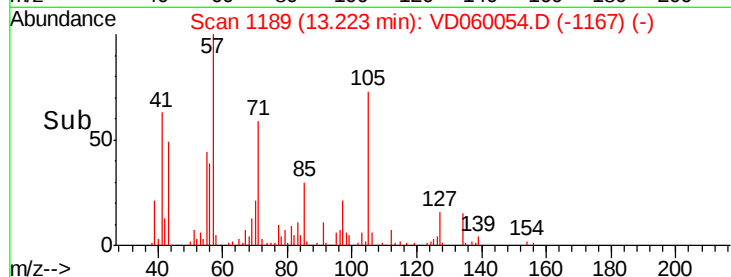
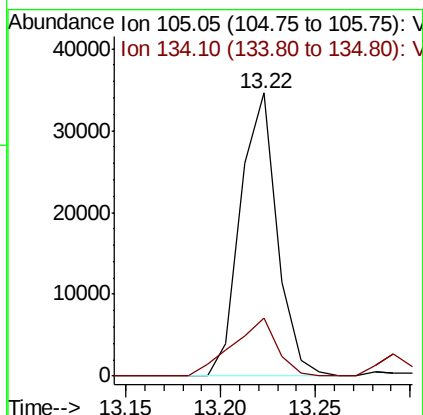
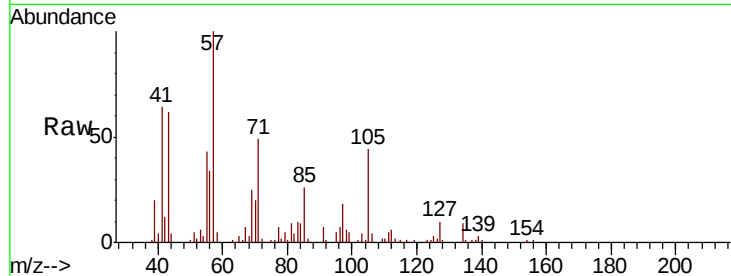




#85
 sec-Butylbenzene
 Concen: 1.71 ug/l
 RT: 13.22 min Scan# 1189
 Delta R.T. 0.01 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

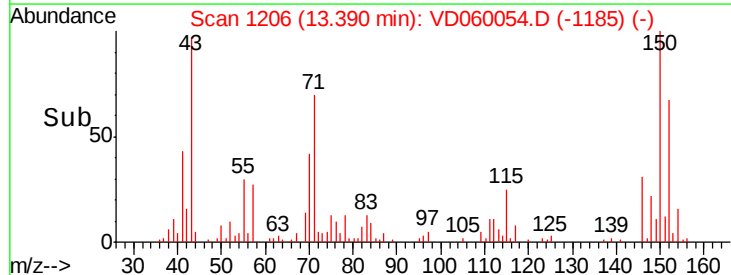
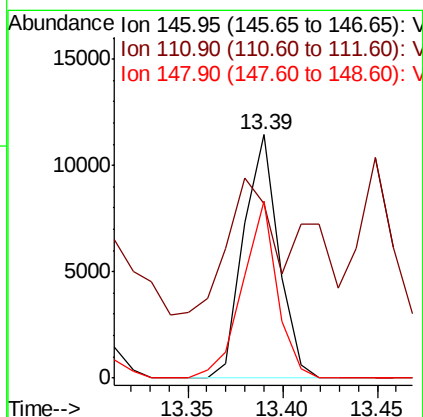
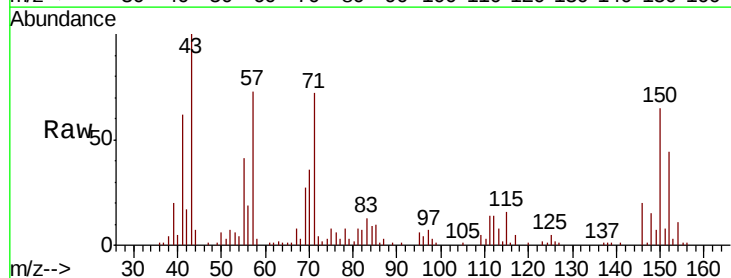
Instrument :
 MSVOA_D
 ClientSampleID :
 RA-091918-N-FL-056

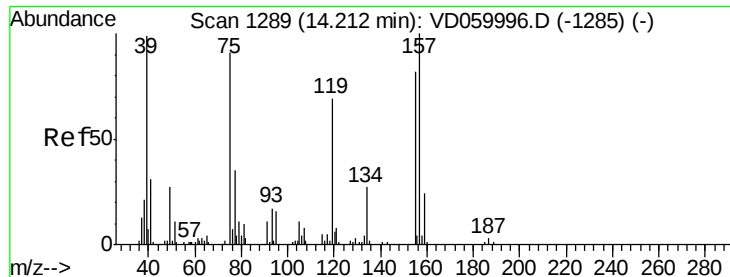
Tot Ion:105 Resp: 46375
 Ion Ratio Lower Upper
 105 100
 134 20.4 8.2 24.6



#88
 1,4-Dichlorobenzene
 Concen: 1.12 ug/l
 RT: 13.39 min Scan# 1206
 Delta R.T. 0.00 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

Tgt Ion:146 Resp: 14628
 Ion Ratio Lower Upper
 146 100
 111 71.7 16.7 50.0#
 148 72.9 32.9 98.6





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.74 ug/l
 RT: 14.22 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VD060054.D
 Acq: 20 Sep 2018 18:08

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-N-FL-056

Tot Ion: 75 Resp: 1554
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.7 134.1#
 157 0.0 54.7 164.1#

