

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111318\
 Data File : VX005946.D
 Acq On : 13 Nov 2018 14:07
 Operator : JC/MD
 Sample : J5912-07DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0498-181108DL

Quant Time: Nov 14 03:24:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X110718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 07 14:40:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	93321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	134248	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	121879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	61109	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	66356	61.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	123.70%	
35) Dibromofluoromethane	5.49	113	49724	54.46	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.92%	
50) Toluene-d8	8.72	98	161438	53.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.36%	
62) 4-Bromofluorobenzene	11.14	95	55042	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	

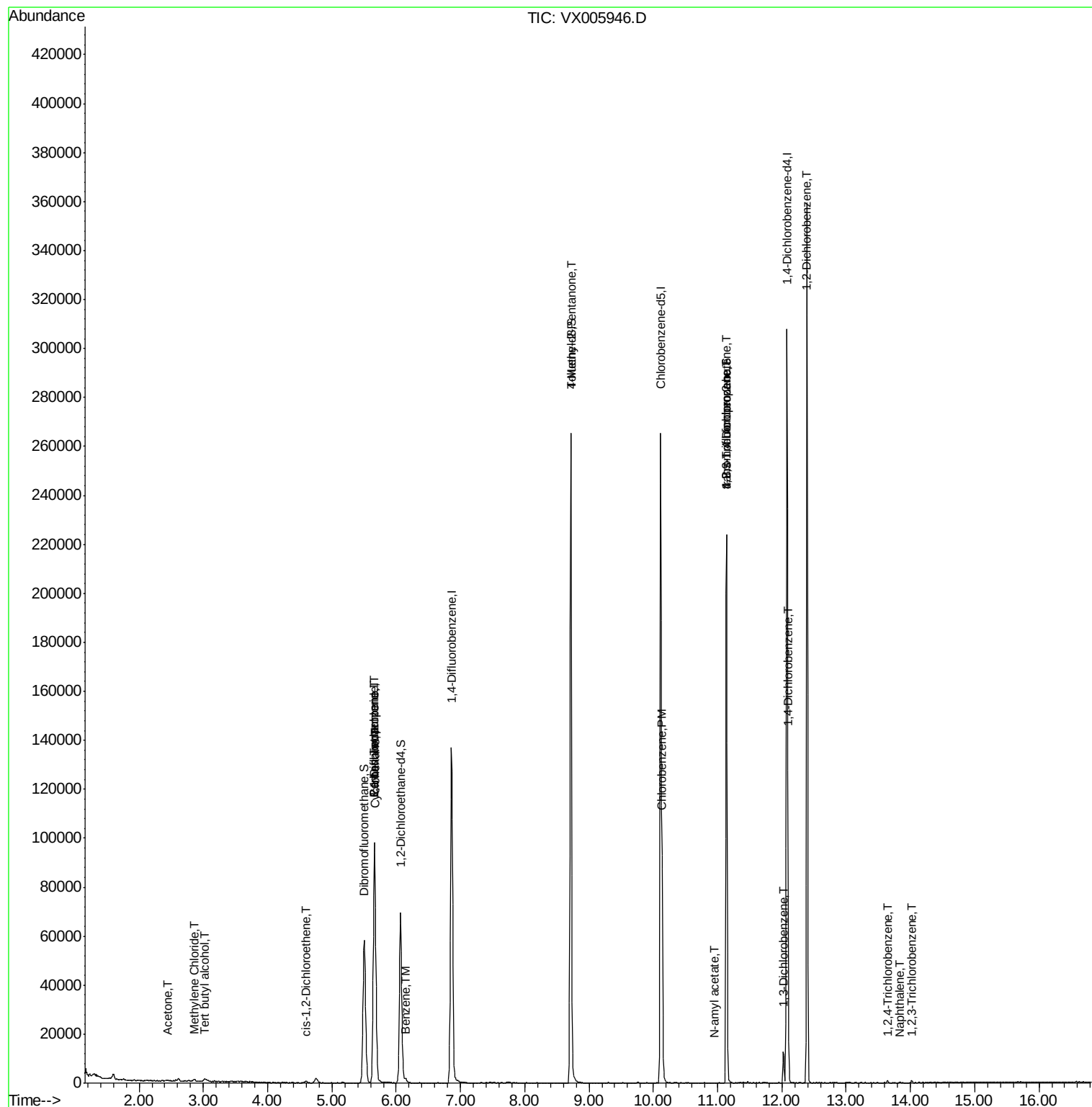
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	666	2.167	ug/l #	72
16) Acetone	2.45	43	636	1.101	ug/l	91
18) Methyl Acetate	2.78	43	386	Below Cal	#	55
20) Methylene Chloride	2.86	84	300	0.316	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	423	0.440	ug/l	53
31) Cyclohexane	5.67	56	1812	1.212	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6499	5.022	ug/l #	48
38) Carbon Tetrachloride	5.66	117	8912	6.879	ug/l #	16
40) Benzene	6.15	78	1543	0.409	ug/l	97
51) 4-Methyl-2-Pentanone	8.71	43	768	0.494	ug/l #	1
65) Chlorobenzene	10.14	112	34601	14.171	ug/l	98
74) N-amyl acetate	10.95	43	41	1.271	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	27817	22.355	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	27817	71.250	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	24	Below Cal	#	31
87) 1,3-Dichlorobenzene	12.02	146	4392	2.298	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	14933	7.631	ug/l	94
91) 1,2-Dichlorobenzene	12.39	146	114837	59.968	ug/l	99
93) 1,2,4-Trichlorobenzene	13.65	180	343	0.254	ug/l	91
95) Naphthalene	13.83	128	407	1.268	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.02	180	322	0.234	ug/l #	85

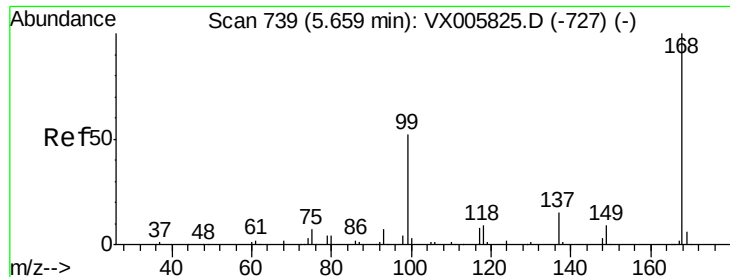
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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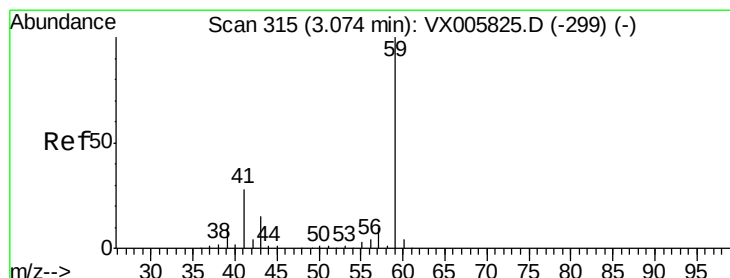
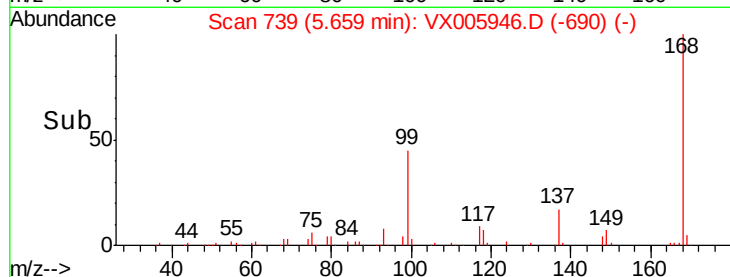
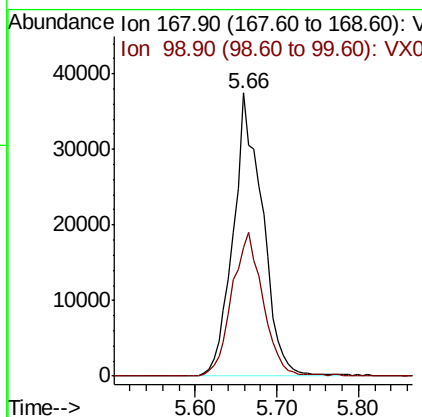
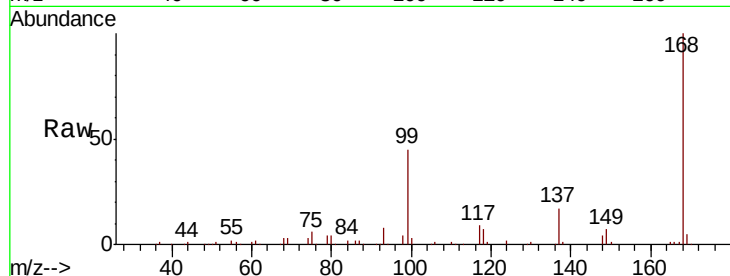




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.00 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

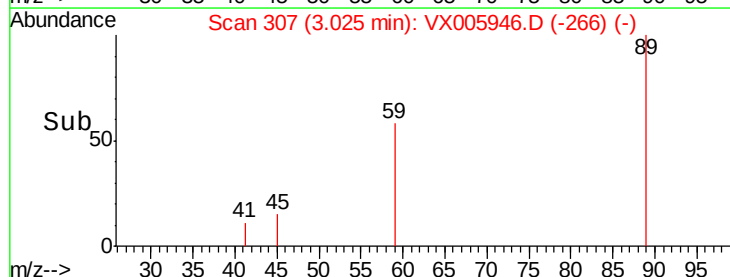
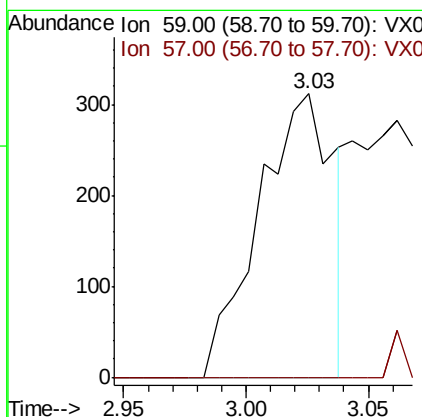
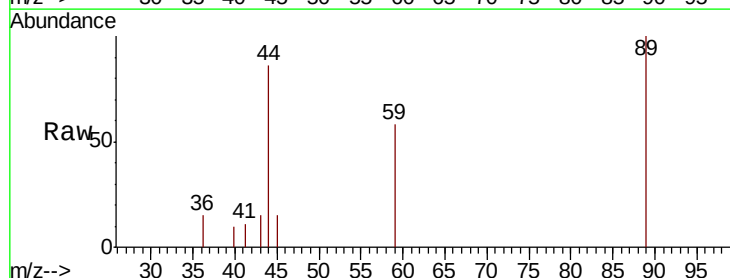
Instrument :
MSVOA_X
ClientSampleId :
DUP-0498-181108DL

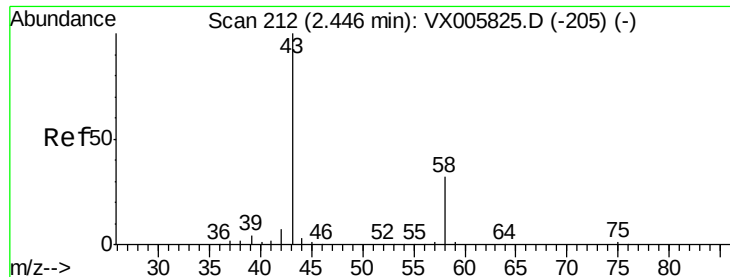
Tot Ion:168 Resp: 93321
Ion Ratio Lower Upper
168 100
99 45.2 40.7 61.1



#11
Tert butyl alcohol
Concen: 2.167 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

Tgt Ion: 59 Resp: 666
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#16

Acetone

Concen: 1.101 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

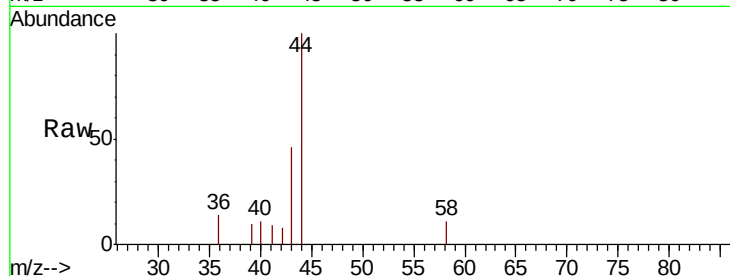
DUP-0498-181108DL

Tot Ion: 43 Resp: 636

Ion Ratio Lower Upper

43 100

58 24.7 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

300

200

100

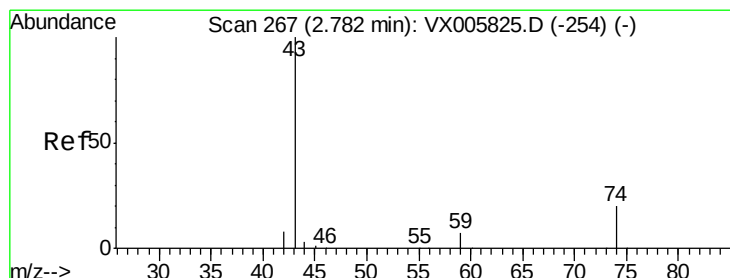
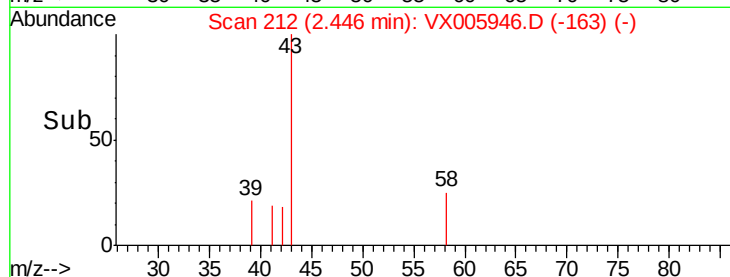
0

2.40

2.45

2.50

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005946.D

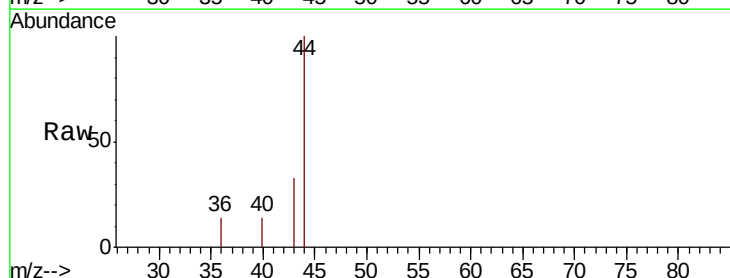
Acq: 13 Nov 2018 14:07

Tgt Ion: 43 Resp: 386

Ion Ratio Lower Upper

43 100

74 0.0 16.8 25.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

200

150

100

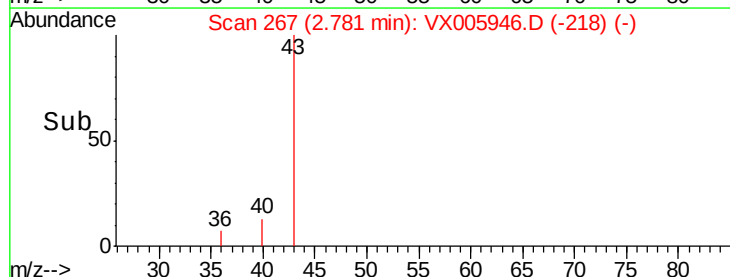
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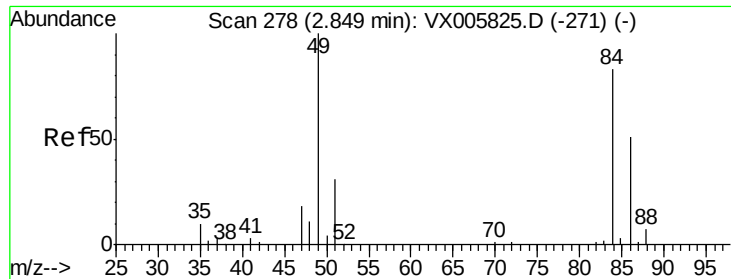
0

2.75

2.80

Time-->

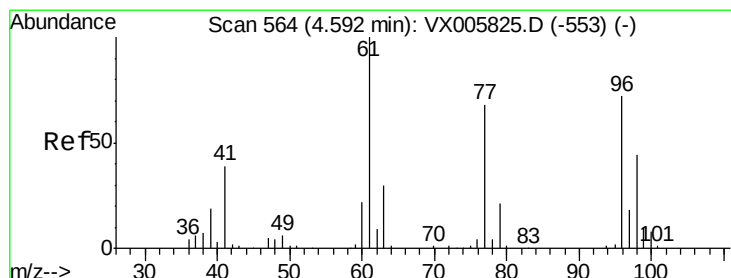
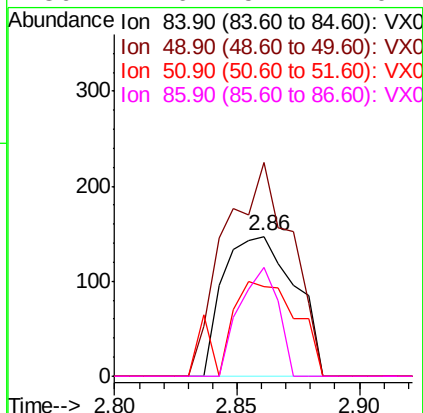
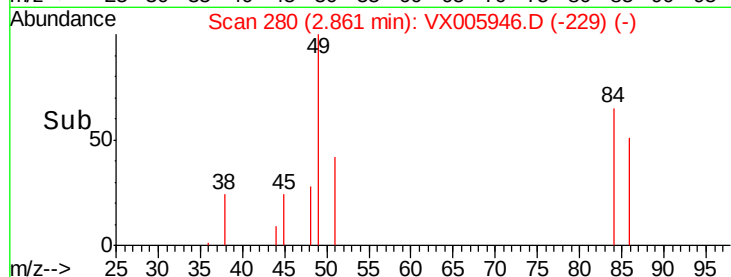
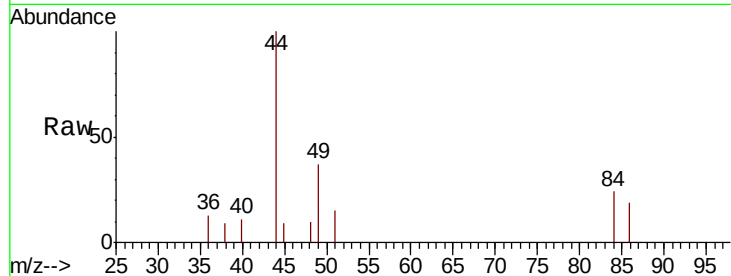




#20
Methvlene Chloride
Concen: 0.316 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

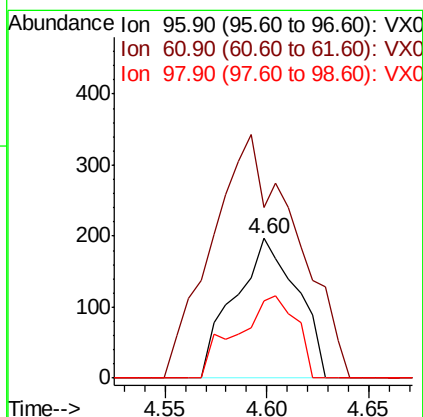
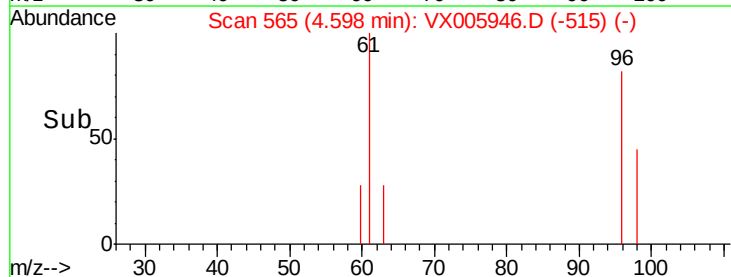
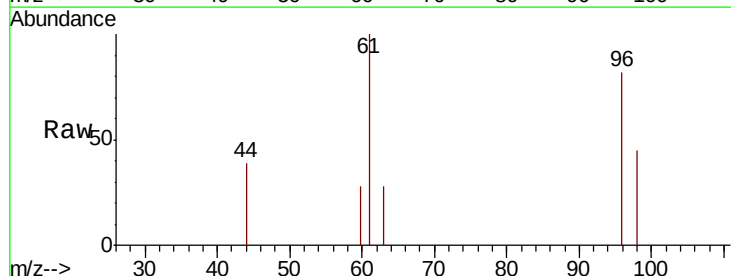
Instrument :
MSVOA_X
ClientSampleId :
DUP-0498-181108DL

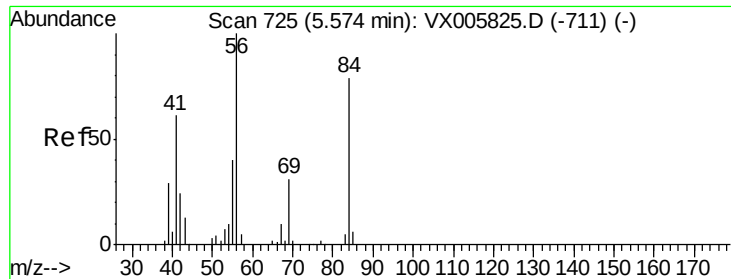
Tot Ion:	84	Resp:	300
Ion	Ratio	Lower	Upper
84	100		
49	153.1	109.5	164.3
51	63.9	33.3	49.9#
86	77.6	52.7	79.1



#27
cis-1,2-Dichloroethene
Concen: 0.440 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.01 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

Tgt Ion:	96	Resp:	423
Ion	Ratio	Lower	Upper
96	100		
61	231.7	0.0	304.6
98	55.8	0.0	127.4

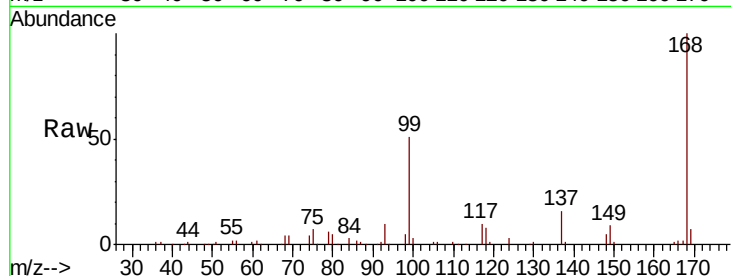




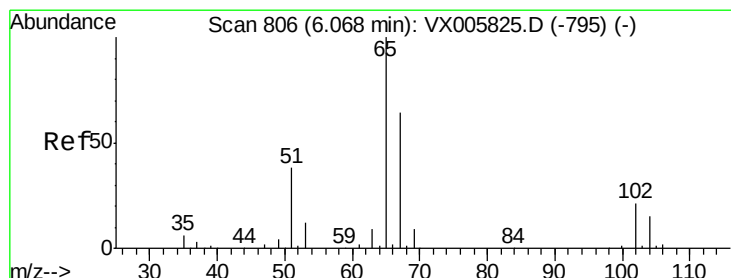
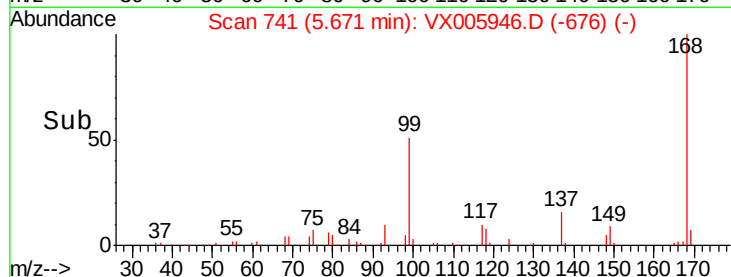
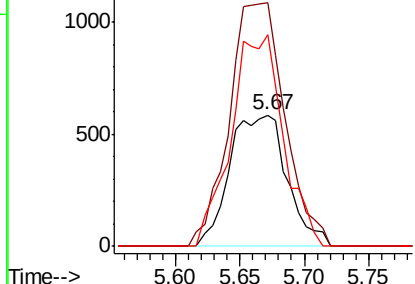
#31
Cyclohexane
Concen: 1.212 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.10 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

Instrument :
MSVOA_X
ClientSampleId :
DUP-0498-181108DL

Tot Ion: 56 Resp: 1812
Ion Ratio Lower Upper
56 100
69 185.8 22.6 34.0#
84 161.6 62.7 94.1#

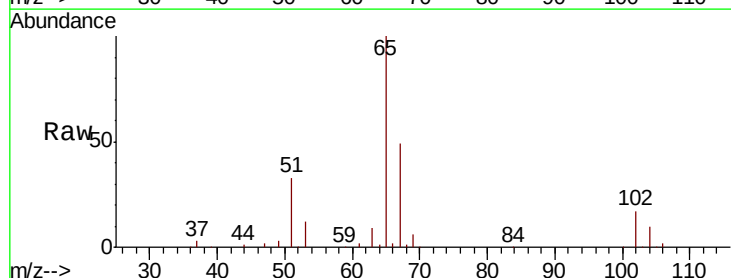


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

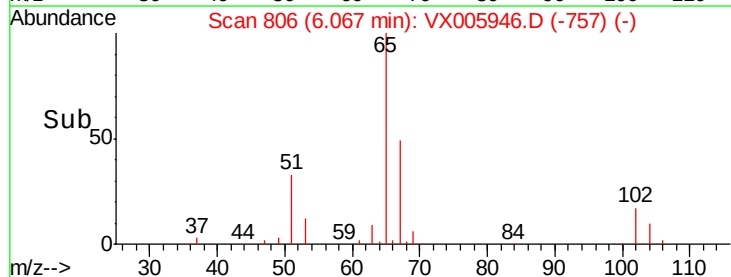
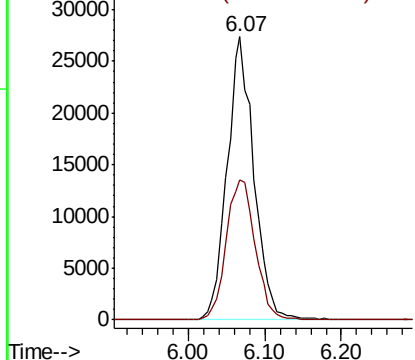


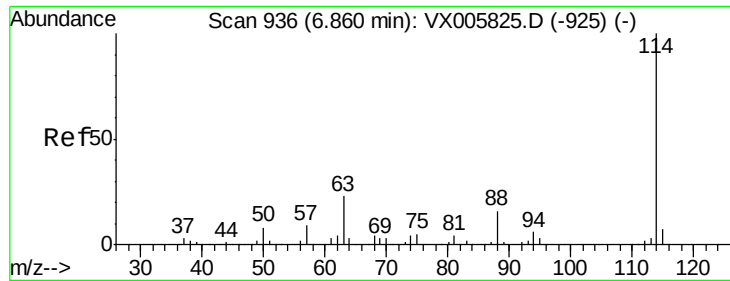
#33
1,2-Dichloroethane-d4
Concen: 61.851 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

Tgt Ion: 65 Resp: 66356
Ion Ratio Lower Upper
65 100
67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

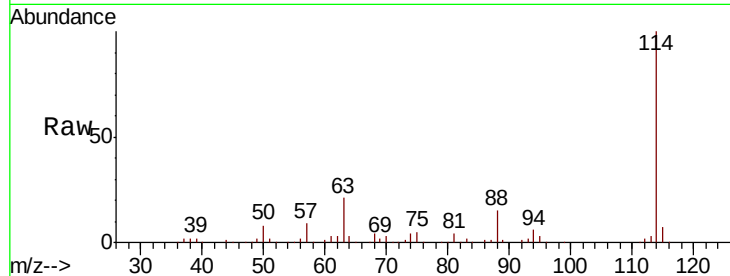




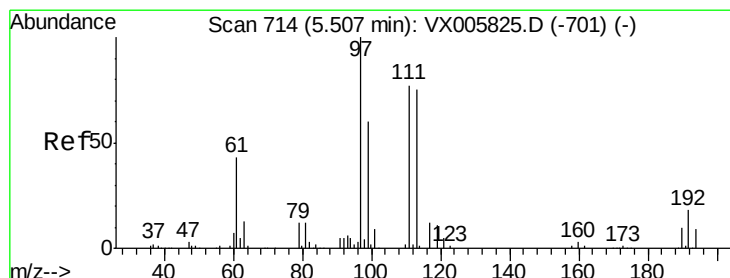
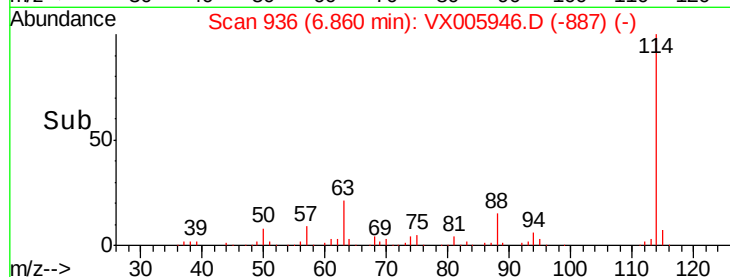
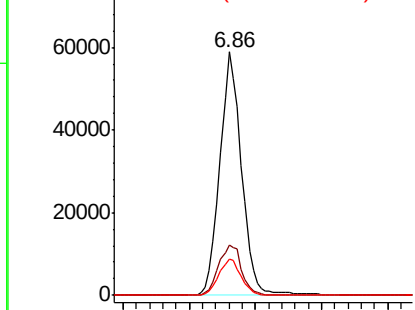
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Instrument :
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 ClientSampleId :
 DUP-0498-181108DL

Tot Ion:114 Resp: 134248
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 42.8
 88 15.0 0.0 31.2

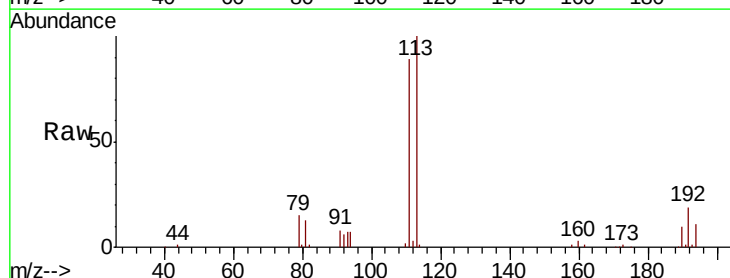


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

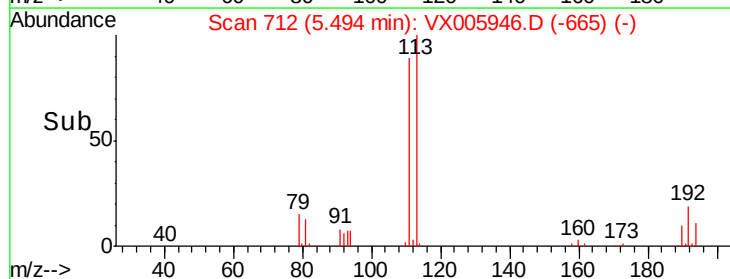
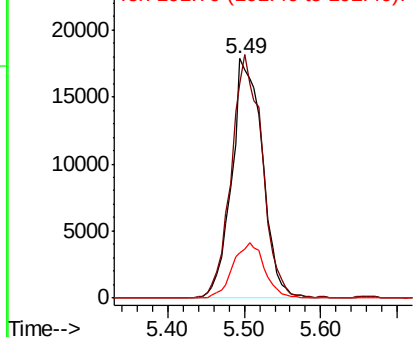


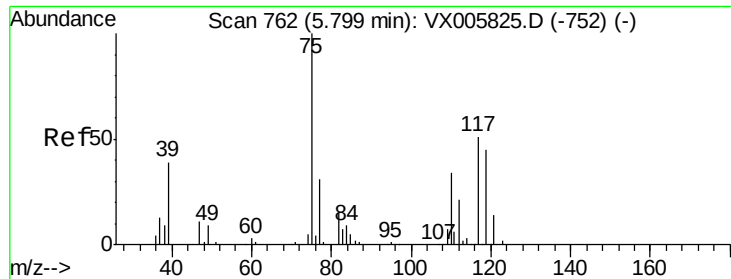
#35
 Dibromofluoromethane
 Concen: 54.457 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Tgt Ion:113 Resp: 49724
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.3 123.5
 192 23.6 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

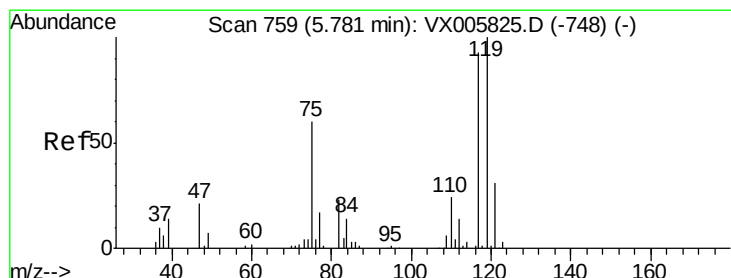
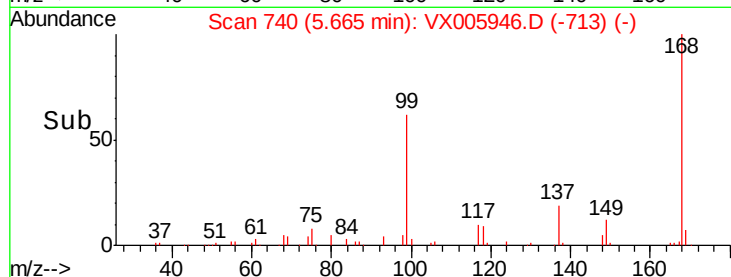
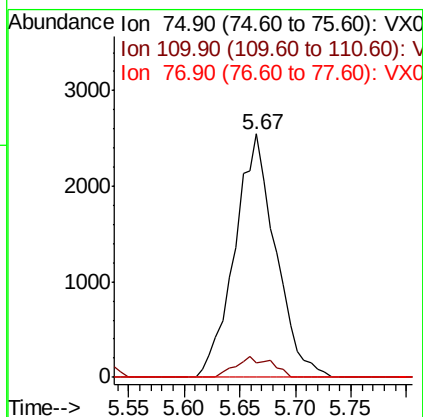
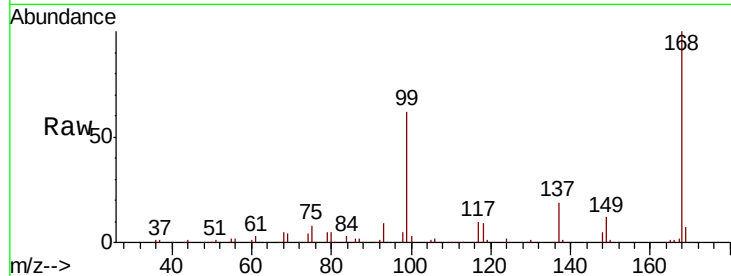




#36
 1,1-Dichloropropene
 Concen: 5.022 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

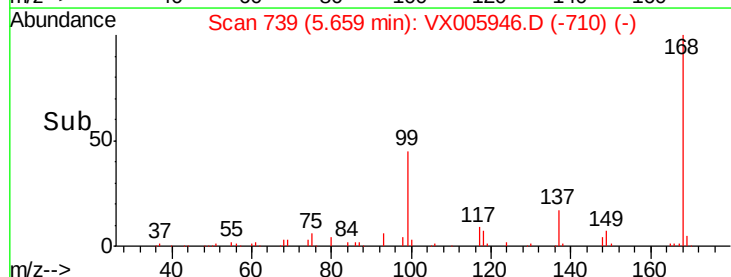
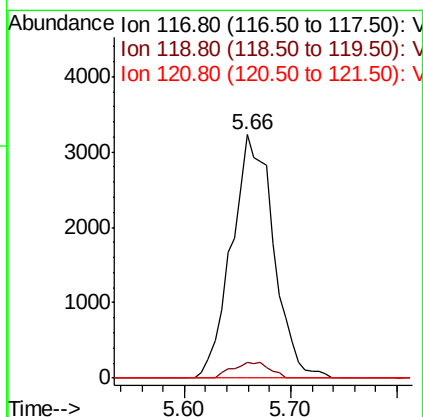
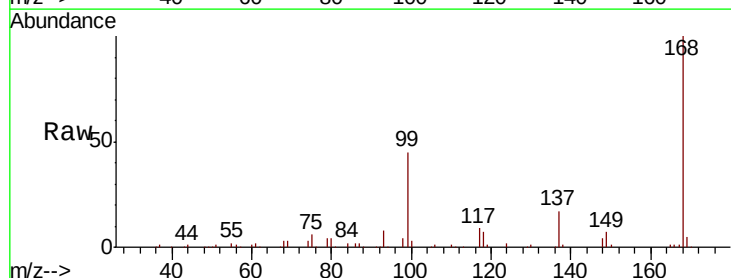
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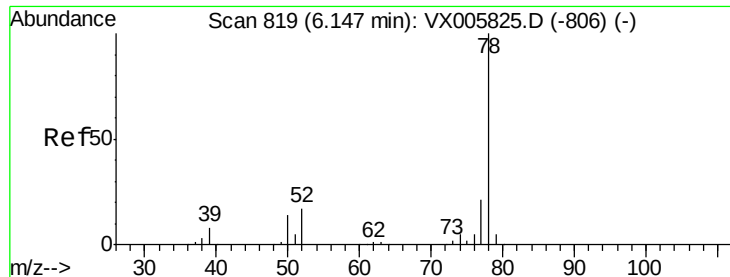
Tot Ion: 75 Resp: 6499
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.4 52.2#
 77 0.0 25.8 38.6#



#38
 Carbon Tetrachloride
 Concen: 6.879 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Tgt Ion: 117 Resp: 8912
 Ion Ratio Lower Upper
 117 100
 119 6.5 78.1 117.1#
 121 0.0 24.6 36.8#





#40

Benzene

Concen: 0.409 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

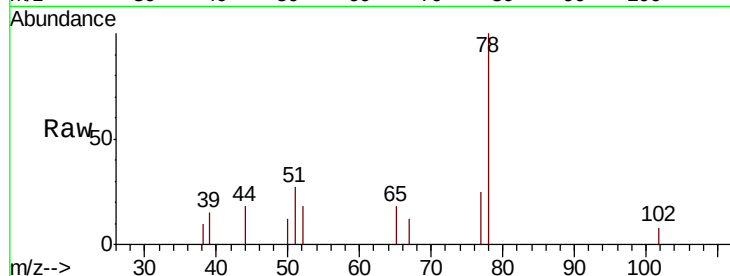
DUP-0498-181108DL

Tot Ion: 78 Resp: 1543

Ion Ratio Lower Upper

78 100

77 24.7 18.4 27.6



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

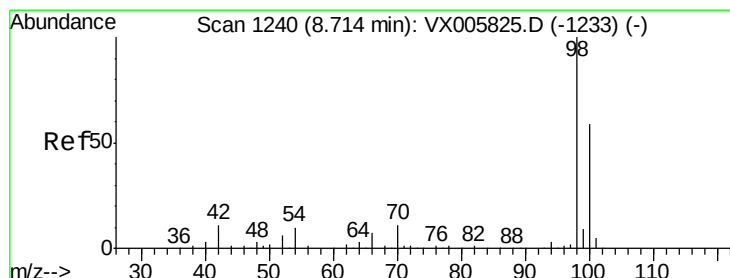
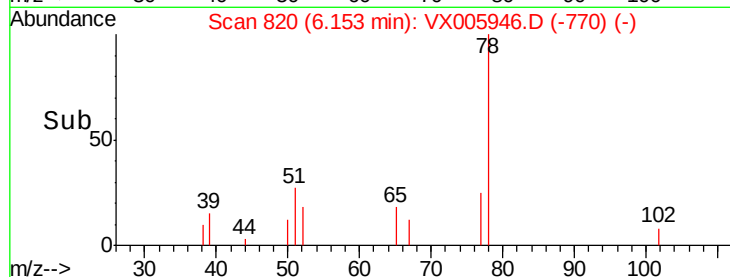
600

400

200

0

Time--> 6.05 6.10 6.15 6.20



#50

Toluene-d8

Concen: 53.181 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VX005946.D

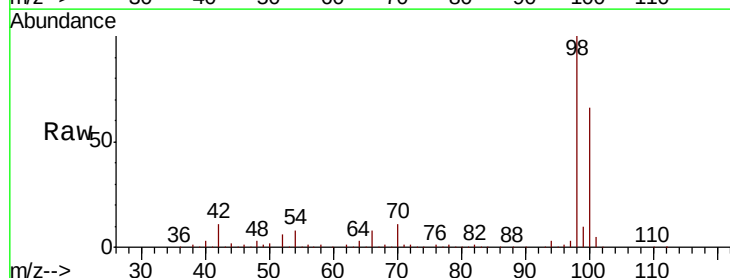
Acq: 13 Nov 2018 14:07

Tgt Ion: 98 Resp: 161438

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

120000

100000

80000

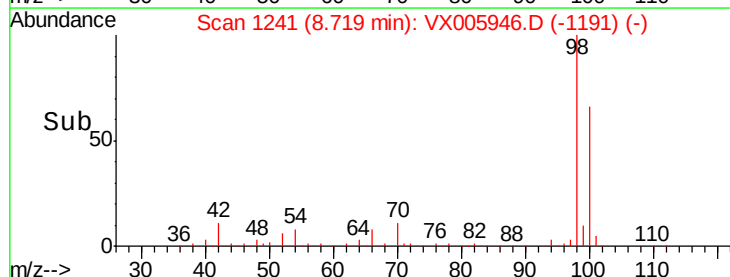
60000

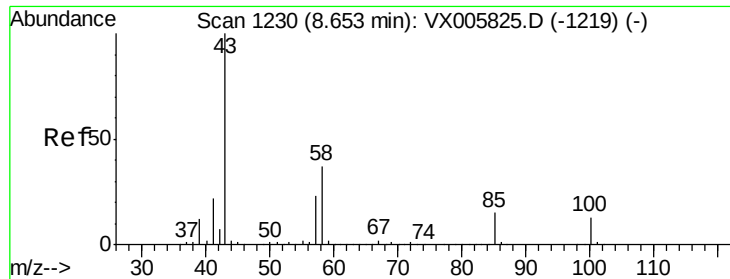
40000

20000

0

Time--> 8.60 8.70 8.80 8.90





#51

4-Methyl-2-Pentanone

Concen: 0.494 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

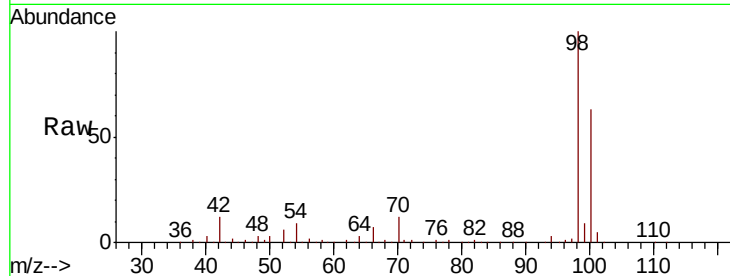
DUP-0498-181108DL

Tot Ion: 43 Resp: 768

Ion Ratio Lower Upper

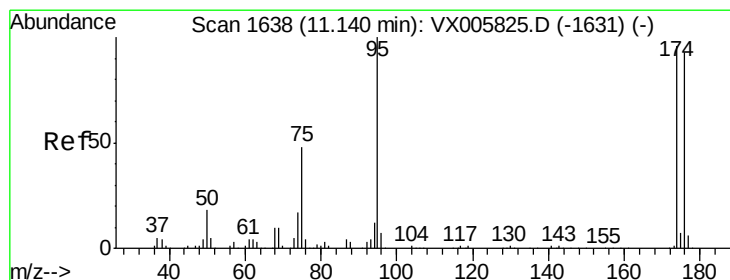
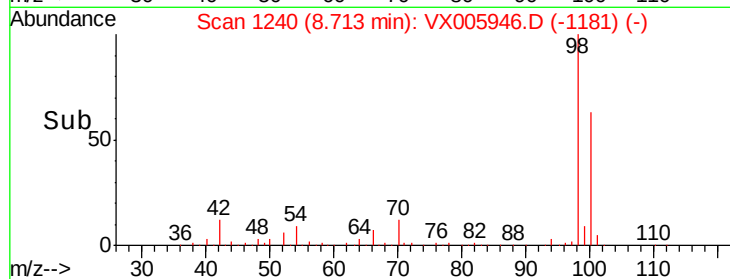
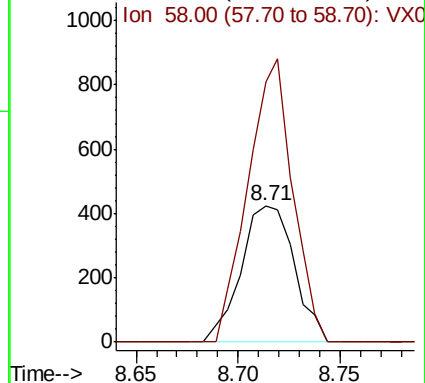
43 100

58 175.7 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 50.431 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

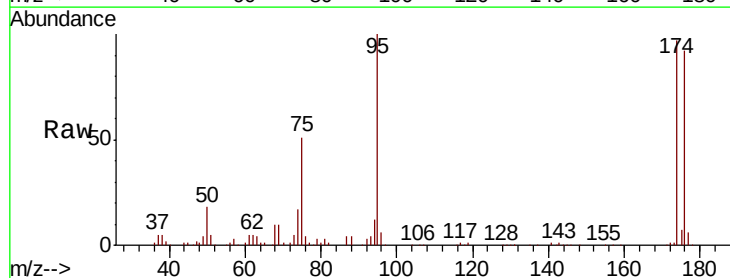
Tgt Ion: 95 Resp: 55042

Ion Ratio Lower Upper

95 100

174 92.6 0.0 184.4

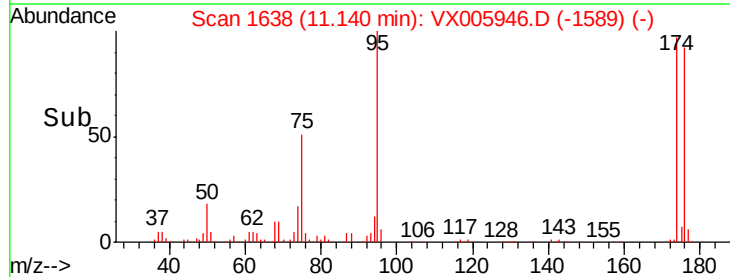
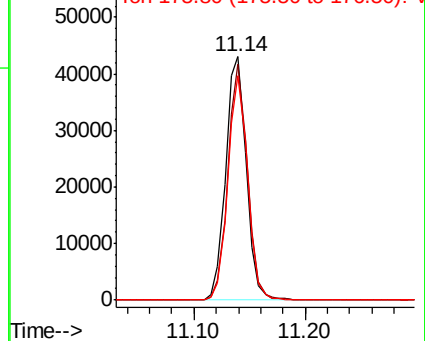
176 88.7 0.0 177.4

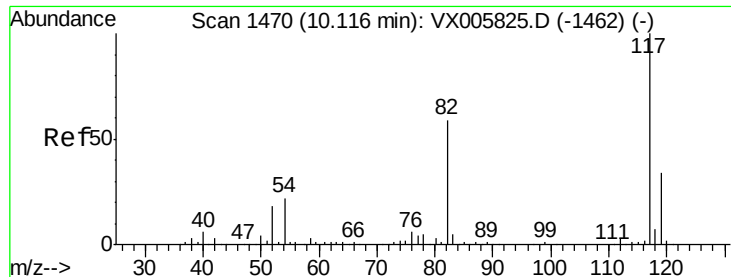


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

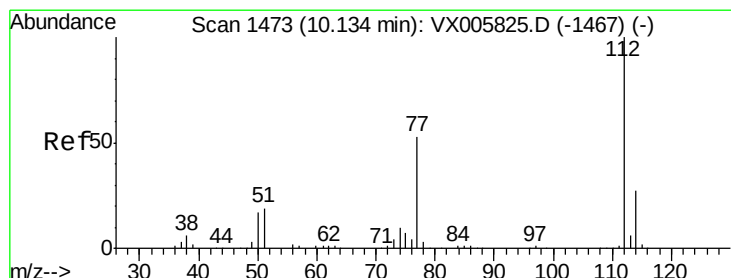
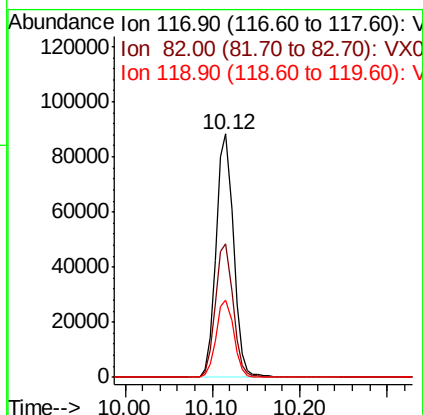
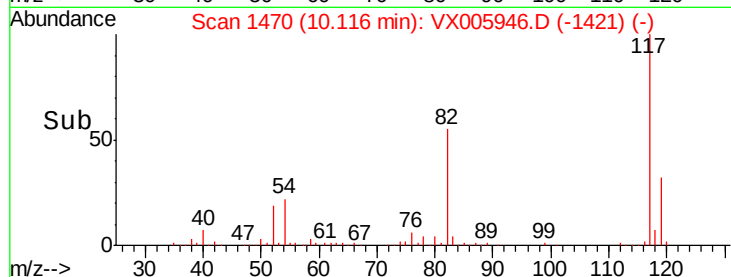
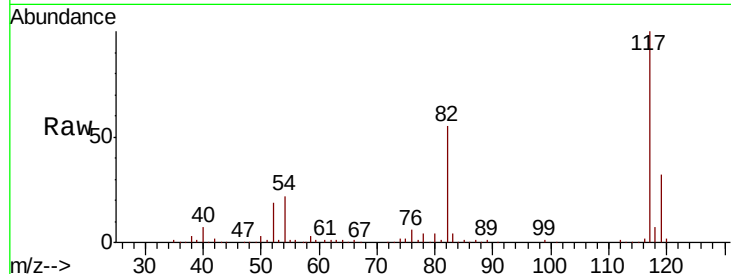




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

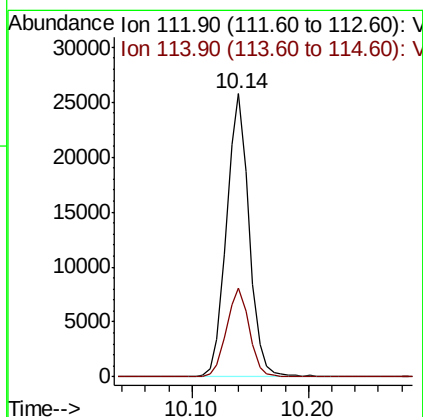
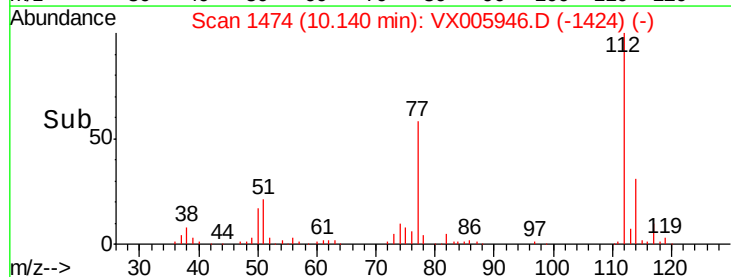
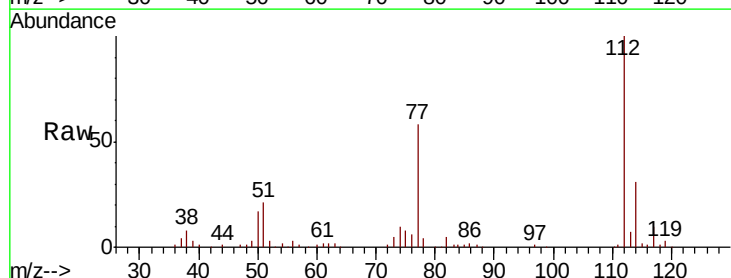
Instrument :
MSVOA_X
ClientSampleId :
DUP-0498-181108DL

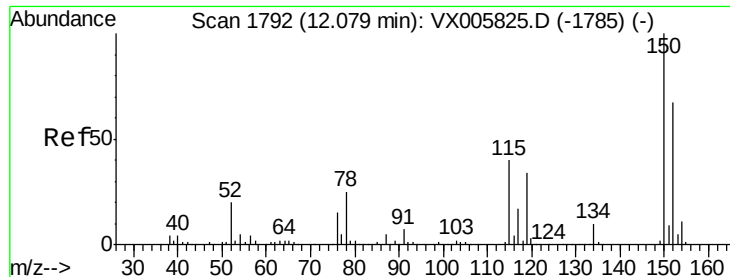
Tot Ion:117 Resp: 121879
Ion Ratio Lower Upper
117 100
82 54.7 44.1 66.1
119 31.9 26.2 39.2



#65
Chlorobenzene
Concen: 14.171 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX005946.D
Acq: 13 Nov 2018 14:07

Tgt Ion:112 Resp: 34601
Ion Ratio Lower Upper
112 100
114 31.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

DUP-0498-181108DL

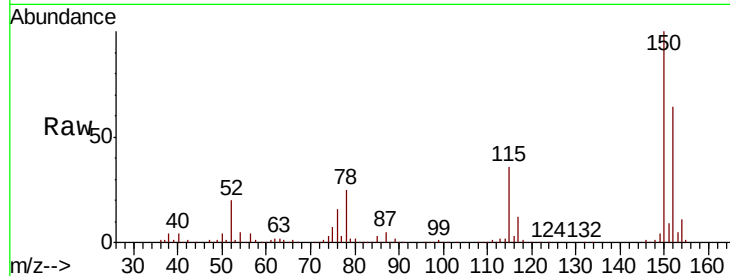
Tot Ion:152 Resp: 61109

Ion Ratio Lower Upper

152 100

115 55.9 39.4 118.1

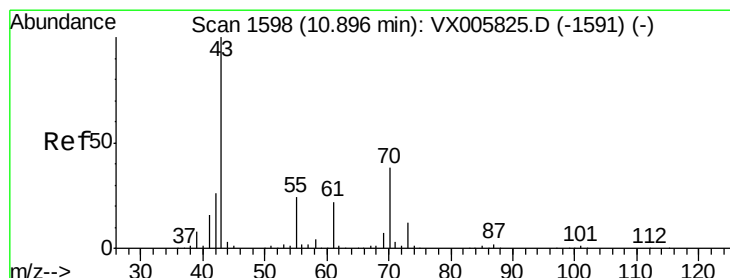
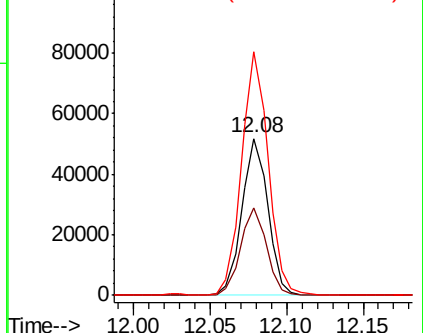
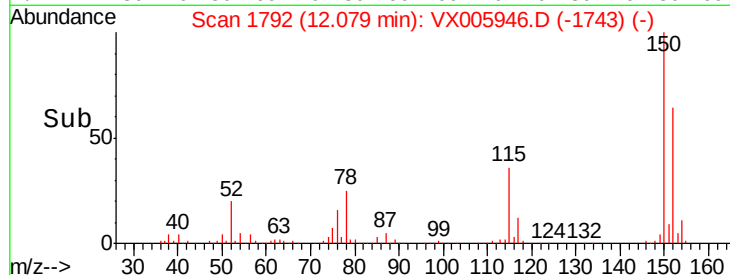
150 159.0 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.271 ug/l

RT: 10.95 min Scan# 1607

Delta R.T. 0.05 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Tgt Ion: 43 Resp: 41

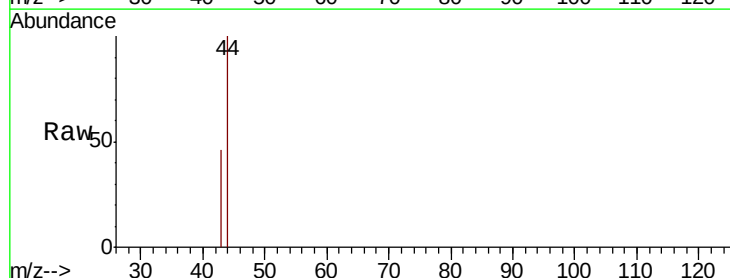
Ion Ratio Lower Upper

43 100

70 0.0 31.6 47.4#

55 0.0 19.7 29.5#

61 0.0 18.3 27.5#

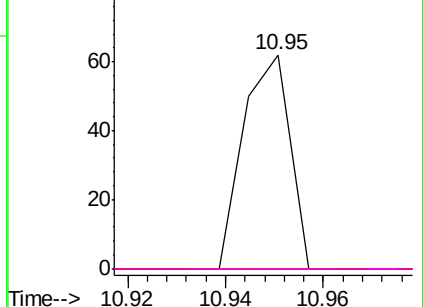
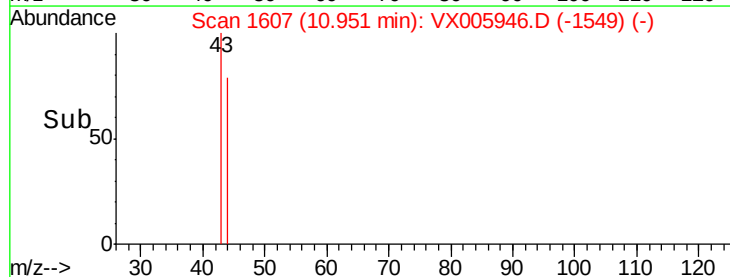


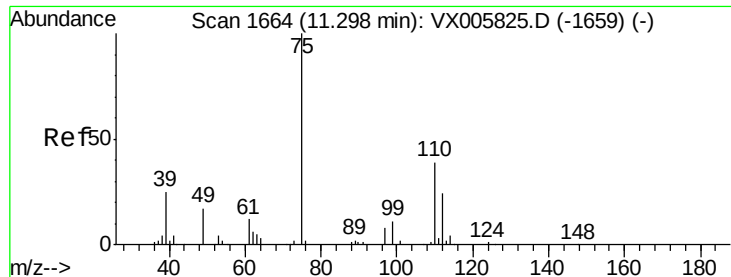
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.355 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

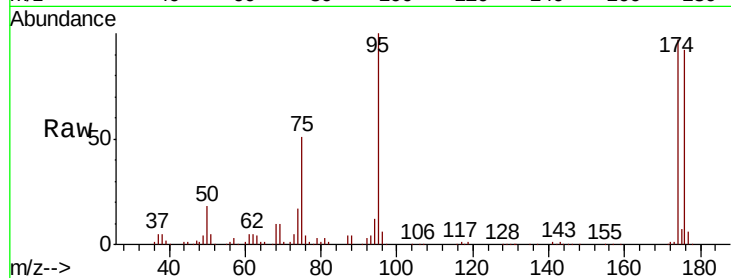
DUP-0498-181108DL

Tot Ion: 75 Resp: 27817

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

25000

20000

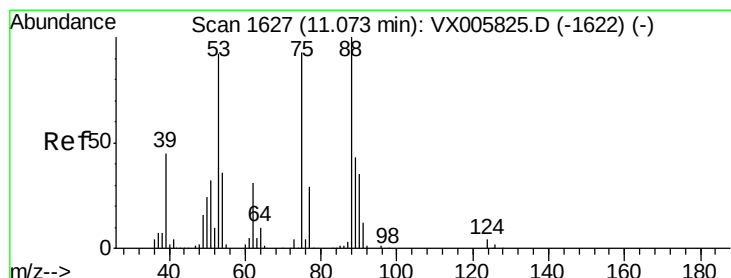
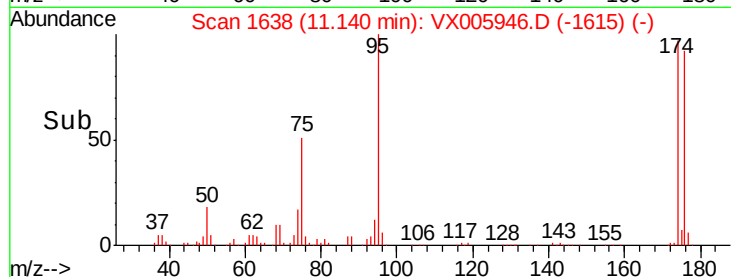
15000

10000

5000

0

Time--> 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 71.250 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

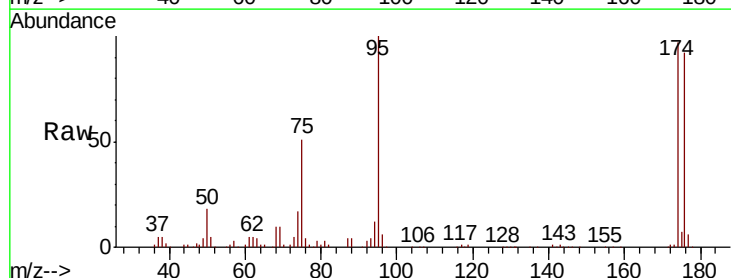
Tgt Ion: 75 Resp: 27817

Ion Ratio Lower Upper

75 100

53 0.0 80.2 120.2#

89 0.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.14

30000

25000

20000

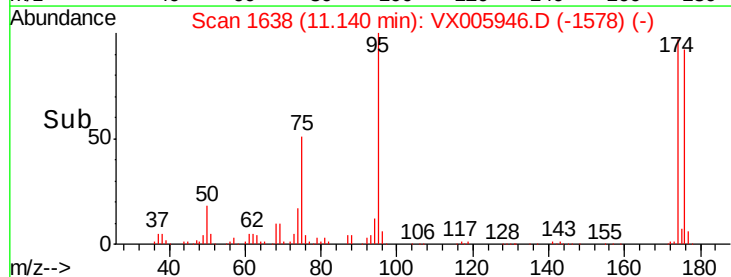
15000

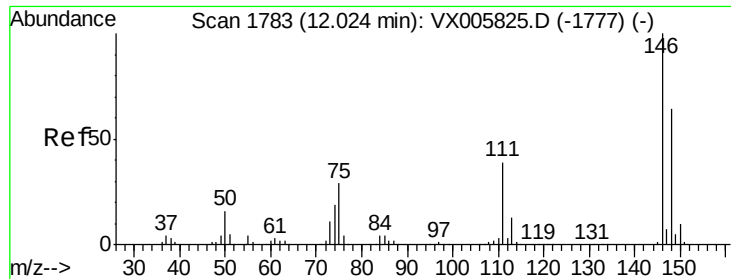
10000

5000

0

Time--> 11.10 11.15 11.20

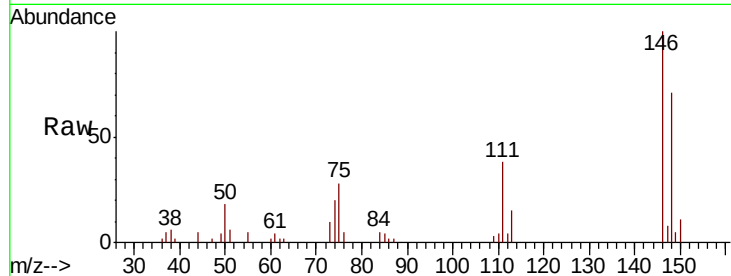




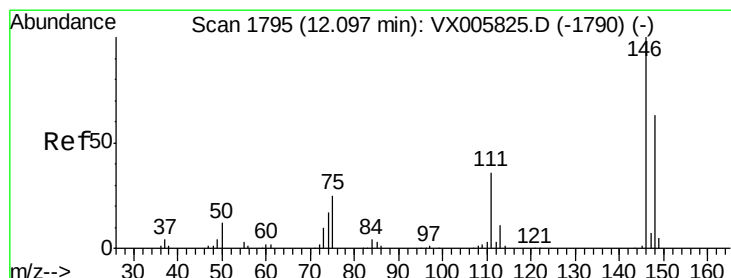
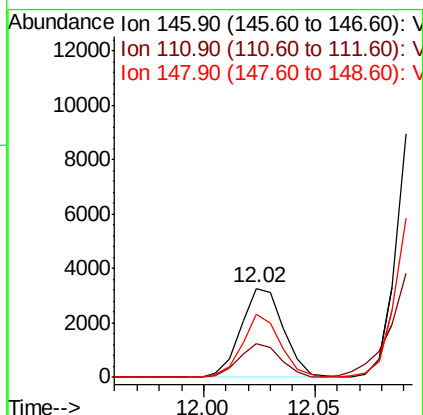
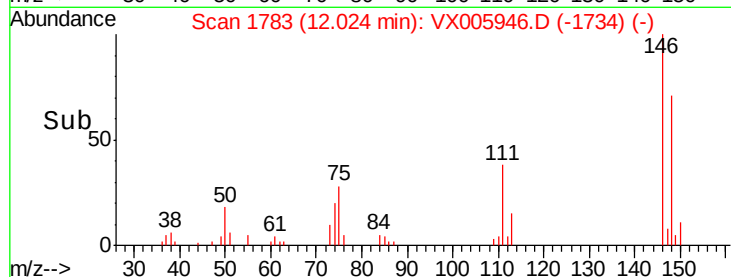
#87
 1,3-Dichlorobenzene
 Concen: 2.298 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0498-181108DL

Tot Ion:146 Resp: 4392
 Ion Ratio Lower Upper
 146 100
 111 36.8 19.0 57.0
 148 62.9 31.9 95.9

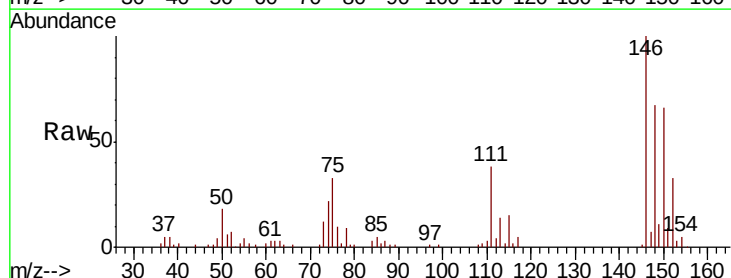


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

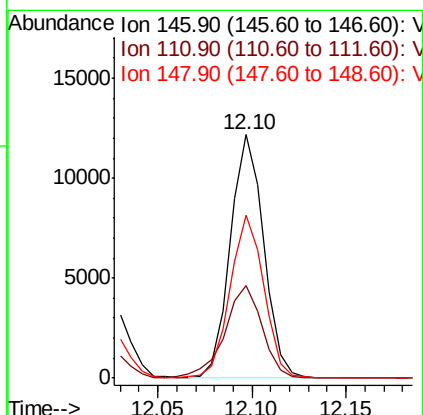
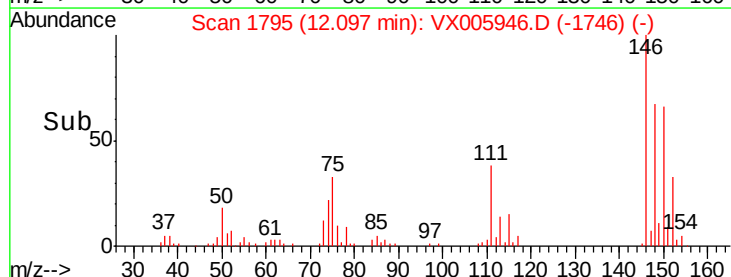


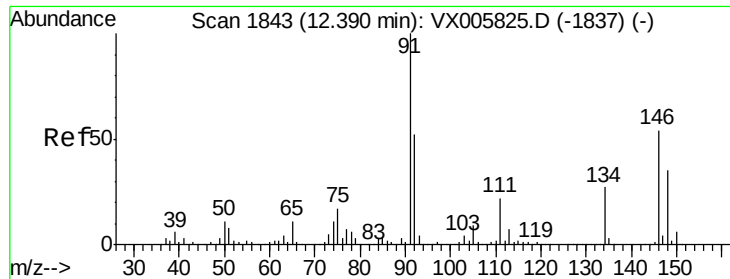
#88
 1,4-Dichlorobenzene
 Concen: 7.631 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Tgt Ion:146 Resp: 14933
 Ion Ratio Lower Upper
 146 100
 111 42.8 18.6 55.8
 148 68.0 32.1 96.3



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

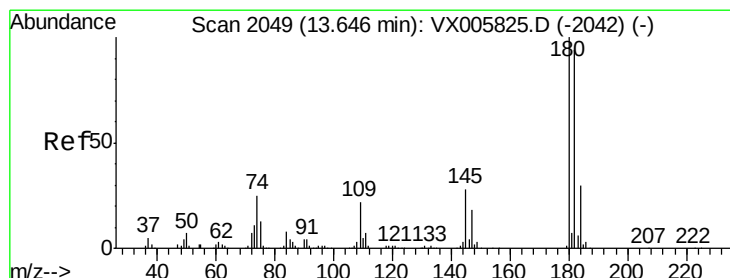
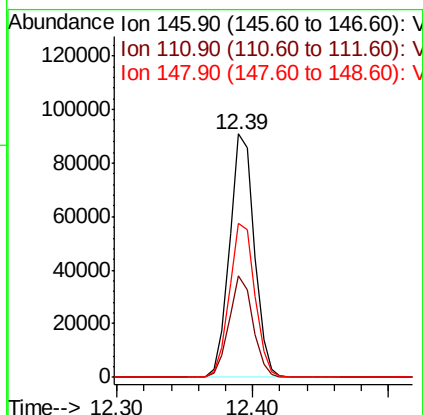
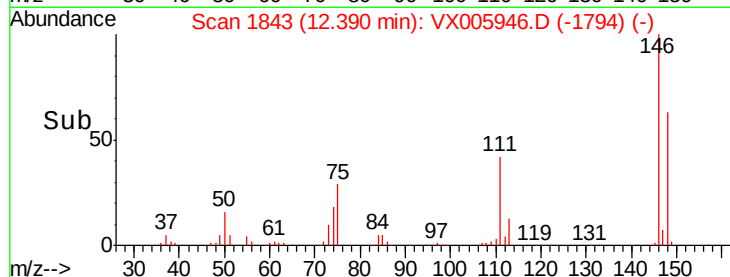
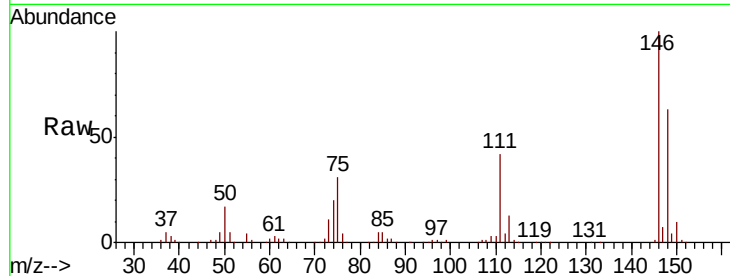




#91
 1,2-Dichlorobenzene
 Concen: 59.968 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

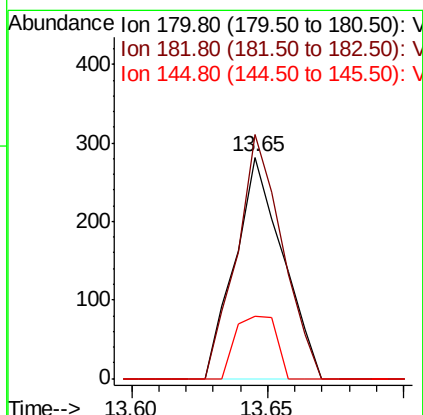
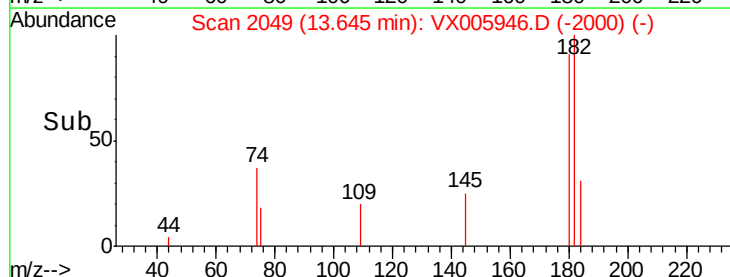
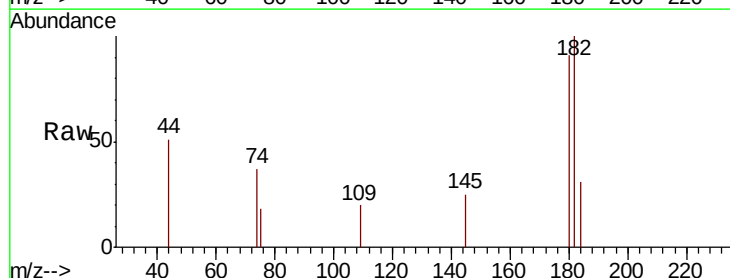
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0498-181108DL

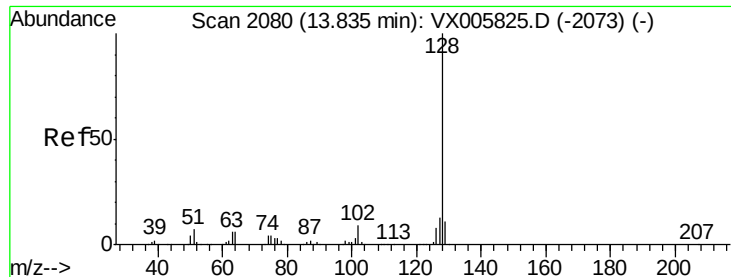
Tot Ion:146 Resp: 114837
 Ion Ratio Lower Upper
 146 100
 111 40.2 20.0 59.9
 148 64.8 32.2 96.6



#93
 1,2,4-Trichlorobenzene
 Concen: 0.254 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005946.D
 Acq: 13 Nov 2018 14:07

Tgt Ion:180 Resp: 343
 Ion Ratio Lower Upper
 180 100
 182 105.0 47.6 142.8
 145 24.2 14.1 42.2





#95

Naphthalene

Concen: 1.268 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

DUP-0498-181108DL

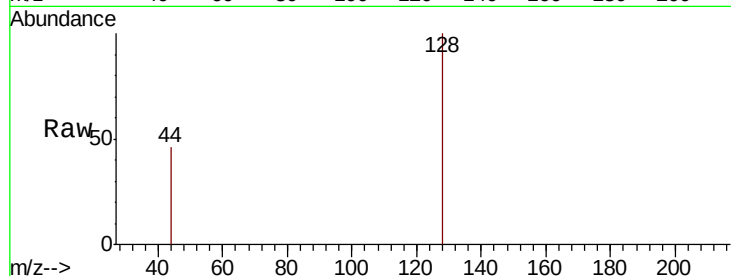
Tot Ion:128 Resp: 407

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

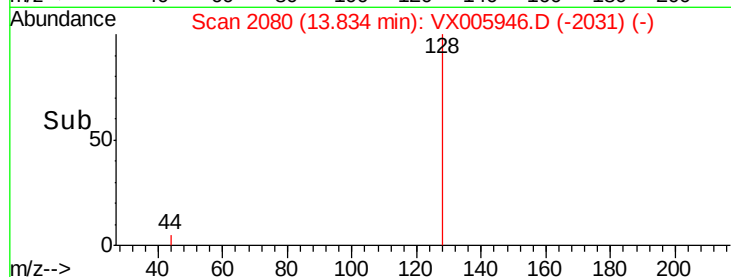


Abundance Ion 128.00 (127.70 to 128.70): V

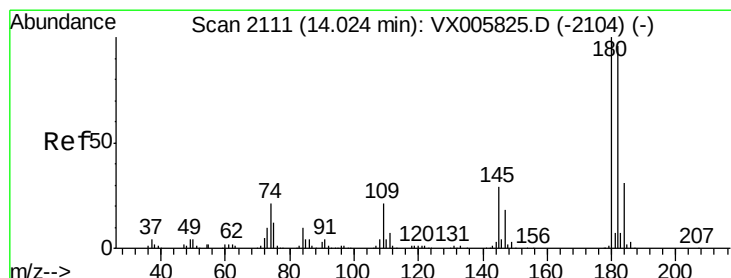
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.83



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.234 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.01 min

Lab File: VX005946.D

Acq: 13 Nov 2018 14:07

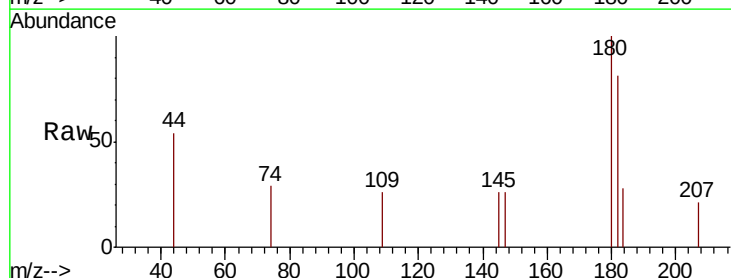
Tgt Ion:180 Resp: 322

Ion Ratio Lower Upper

180 100

182 85.4 48.0 144.2

145 14.0 15.1 45.3#

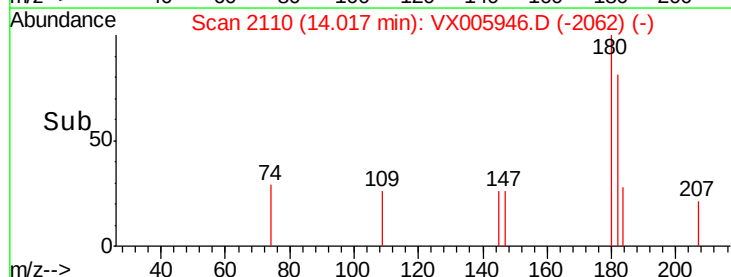


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

14.02



Time-->