

Data File : VX008829.D
Acq On : 11 Apr 2019 01:14
Operator : JC/SP
Sample : K2316-14
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SPLP-LECHATE-AMND-CS-4

Quant Time: Apr 11 05:59:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	195846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	321543	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	283578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123039	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	133147	46.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.22%	
35) Dibromofluoromethane	5.50	113	79365	38.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.20%	
50) Toluene-d8	8.71	98	402770	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	11.13	95	138356	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	

Target Compounds

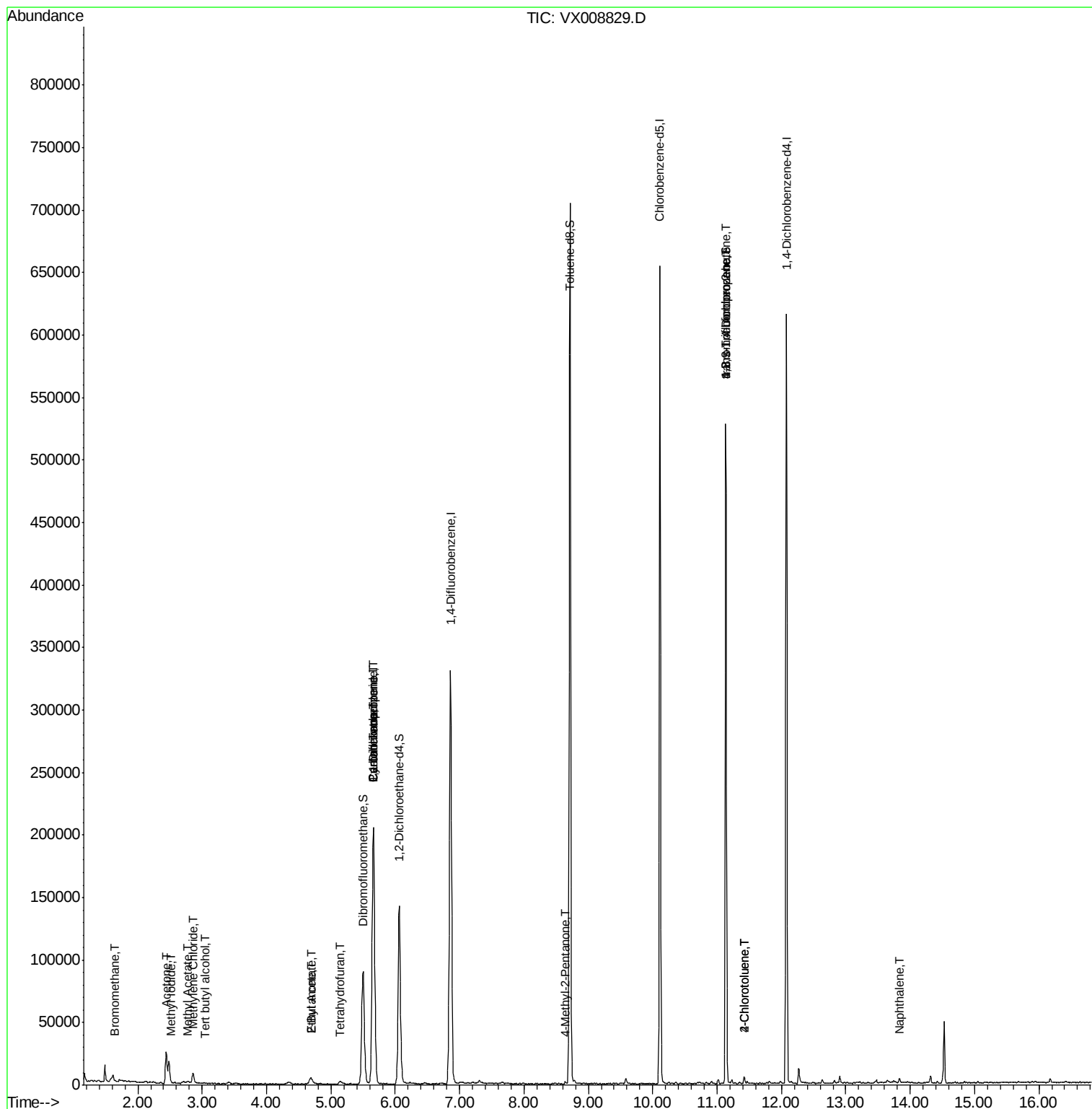
					Qvalue	
3) Chloromethane	1.32	50	278	Below Cal	#	80
5) Bromomethane	1.65	94	144	1.978	ug/l	82
6) Chloroethane	1.72	64	137	Below Cal	#	43
10) Methyl Iodide	2.52	142	44	4.024	ug/l #	42
11) Tert butyl alcohol	3.04	59	690	1.032	ug/l #	94
16) Acetone	2.44	43	28073	17.063	ug/l	97
17) Carbon Disulfide	2.57	76	1451	Below Cal	#	93
18) Methyl Acetate	2.77	43	1474	0.369	ug/l	97
20) Methylene Chloride	2.85	84	3228	1.172	ug/l	97
25) 2-Butanone	4.68	43	5534	2.128	ug/l #	88
28) Bromochloromethane	4.98	49	20	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	2492	1.444	ug/l	94
31) Cyclohexane	5.66	56	4399	0.891	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15829	4.504	ug/l #	51
37) Ethyl Acetate	4.68	43	5534	1.180	ug/l #	72
38) Carbon Tetrachloride	5.66	117	18872	6.487	ug/l #	17
51) 4-Methyl-2-Pentanone	8.64	43	1230	0.260	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	69270	20.494	ug/l #	34
79) 2-Chlorotoluene	11.42	91	2448	0.341	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	69270	56.493	ug/l #	9
82) 4-Chlorotoluene	11.42	91	2448	0.294	ug/l	90
95) Naphthalene	13.83	128	2099	0.207	ug/l	99

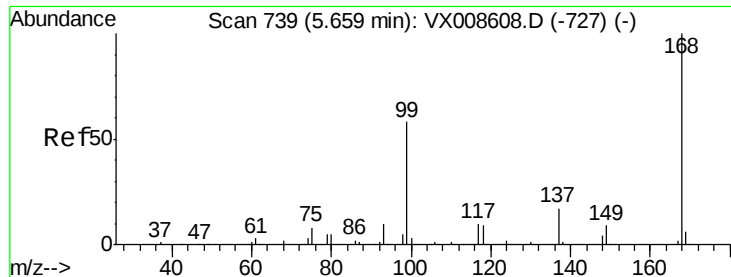
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

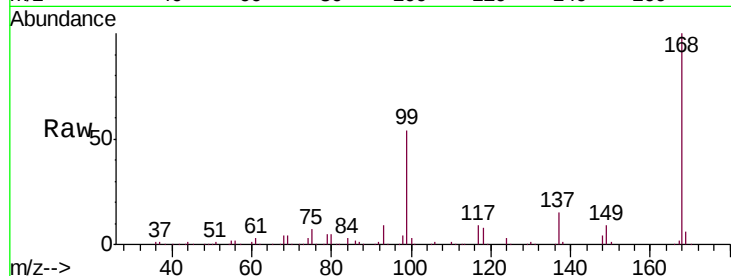
SPLP-LECHATE-AMND-CS-4

Tgt Ion:168 Resp: 195846

Ion Ratio Lower Upper

168 100

99 53.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

40000

20000

0

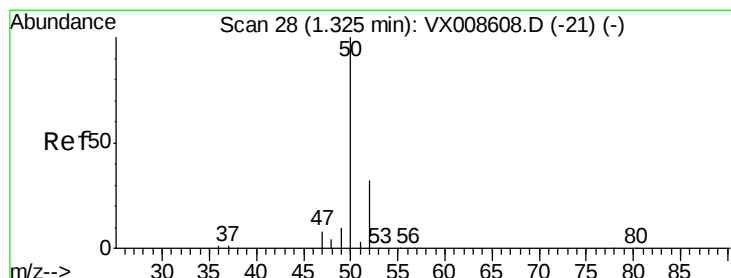
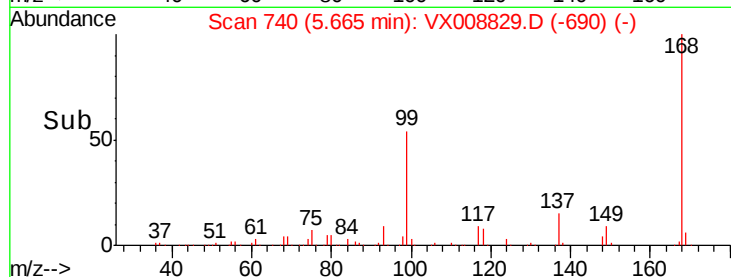
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008829.D

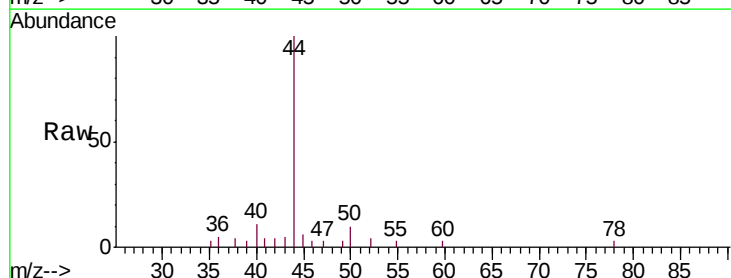
Acq: 11 Apr 2019 01:14

Tgt Ion: 50 Resp: 278

Ion Ratio Lower Upper

50 100

52 43.5 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

200

150

100

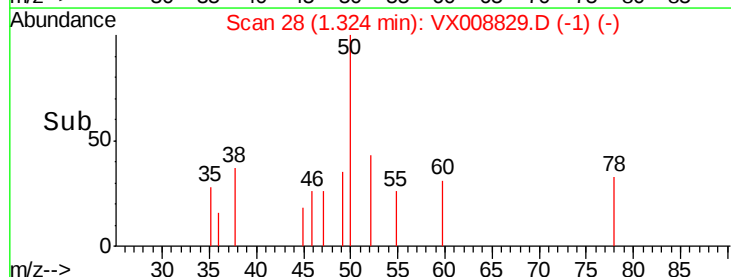
50

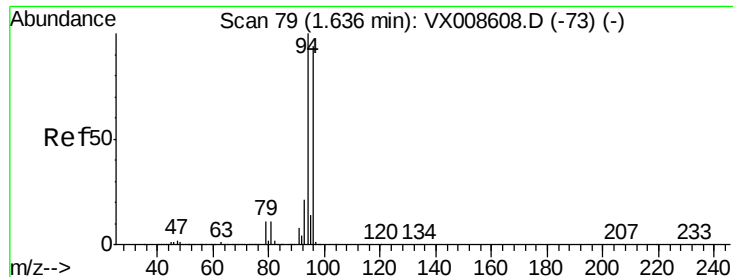
0

Time-->

1.30

1.35





#5

Bromomethane

Concen: 1.978 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

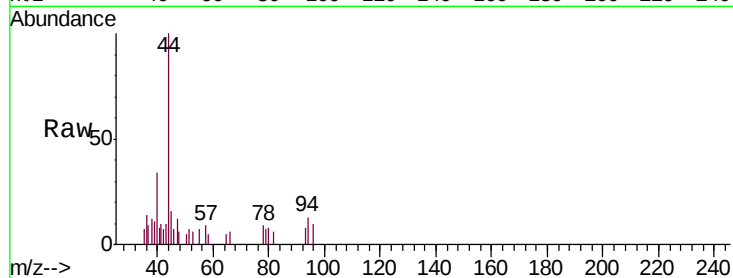
SPLP-LECHATE-AMND-CS-4

Tgt Ion: 94 Resp: 144

Ion Ratio Lower Upper

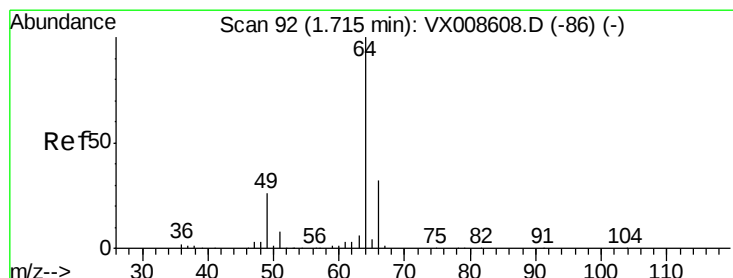
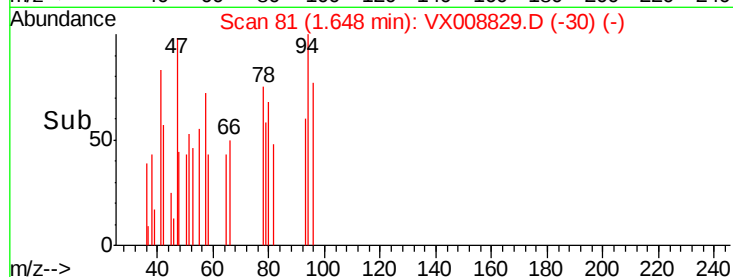
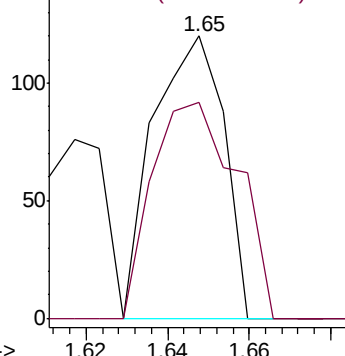
94 100

96 76.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008829.D

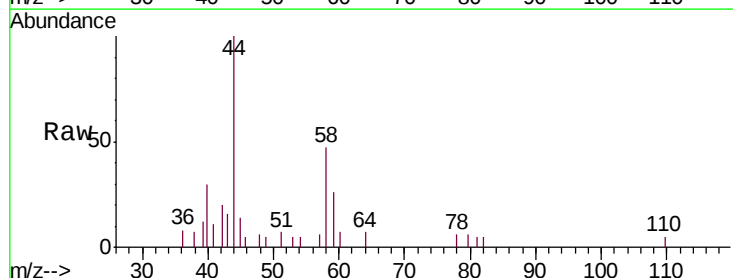
Acq: 11 Apr 2019 01:14

Tgt Ion: 64 Resp: 137

Ion Ratio Lower Upper

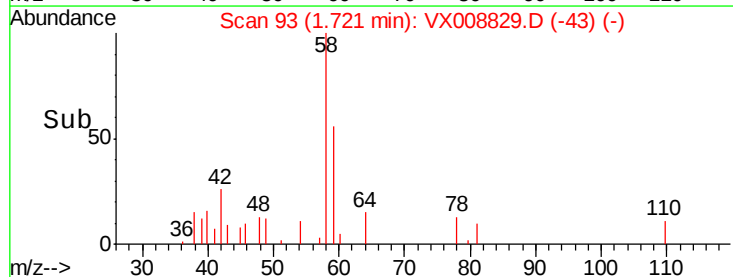
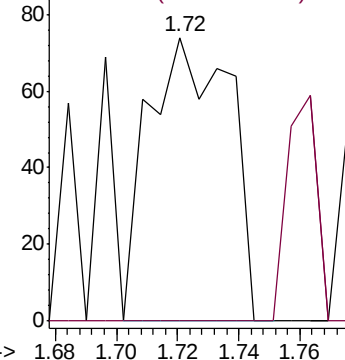
64 100

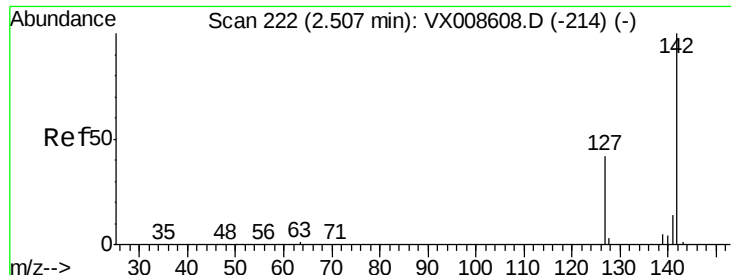
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

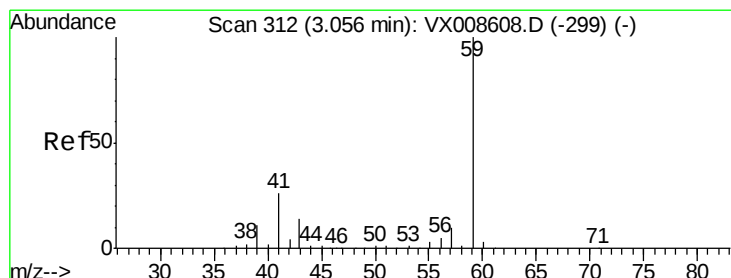
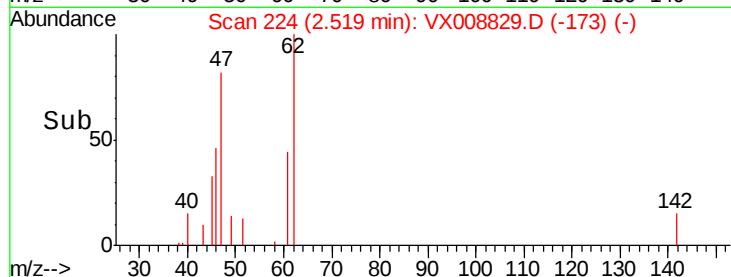
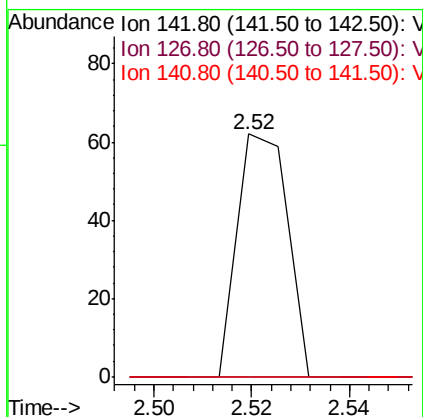
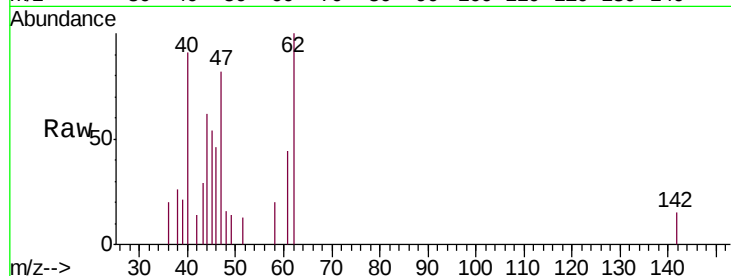




#10
Methyl Iodide
Concen: 4.024 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

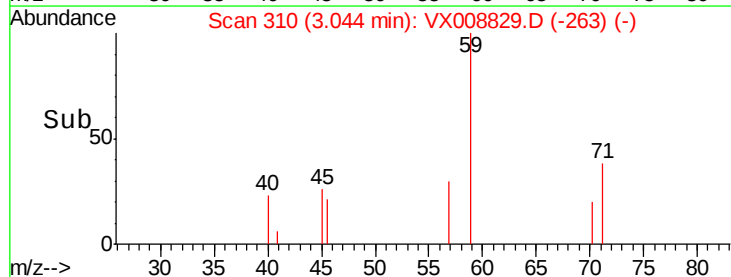
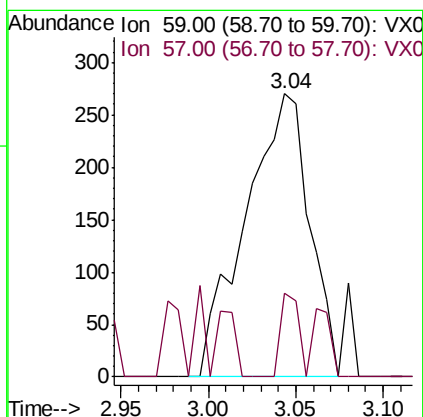
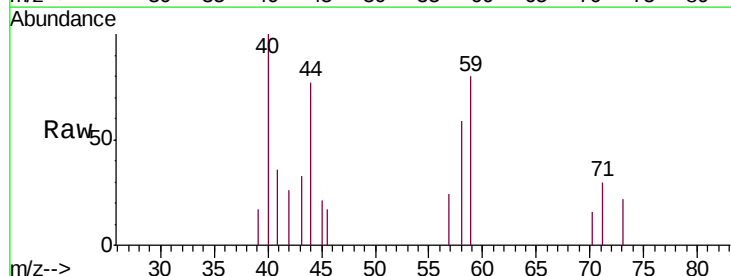
Instrument :
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SPLP-LECHATE-AMND-CS-4

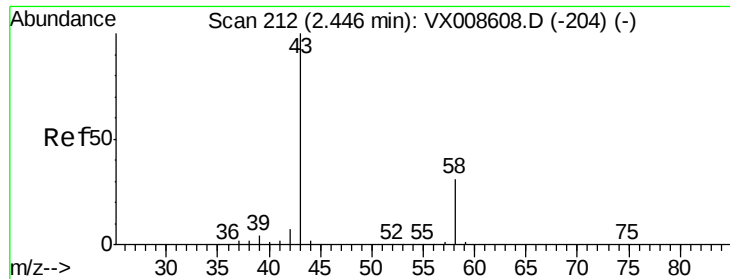
Tgt Ion: 142 Resp: 44
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 1.032 ug/l
RT: 3.04 min Scan# 310
Delta R.T. -0.01 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Tgt Ion: 59 Resp: 690
Ion Ratio Lower Upper
59 100
57 8.1 8.3 12.5#





#16

Acetone

Concen: 17.063 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

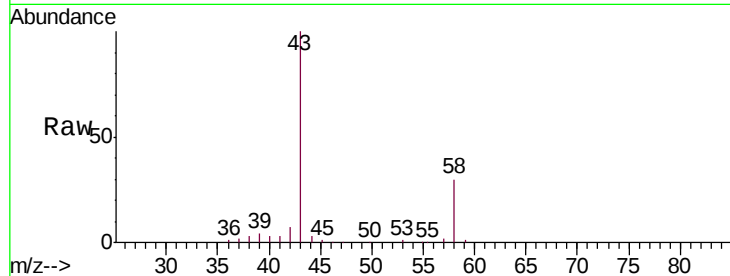
SPLP-LECHATE-AMND-CS-4

Tgt Ion: 43 Resp: 28073

Ion Ratio Lower Upper

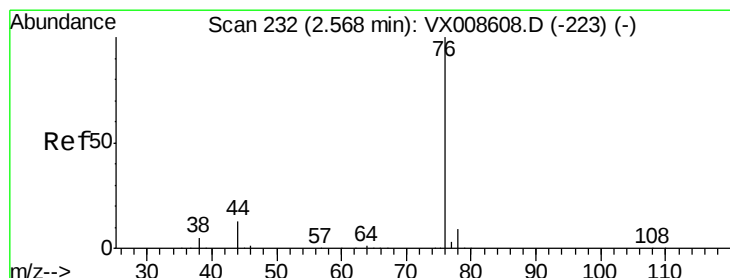
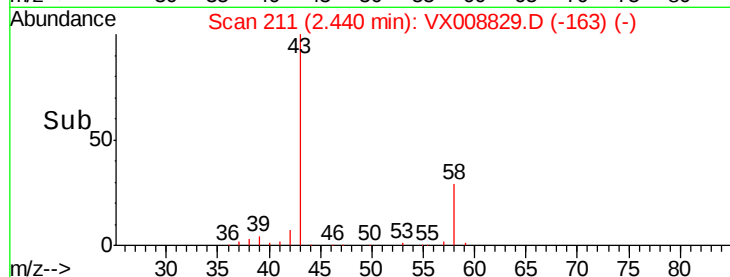
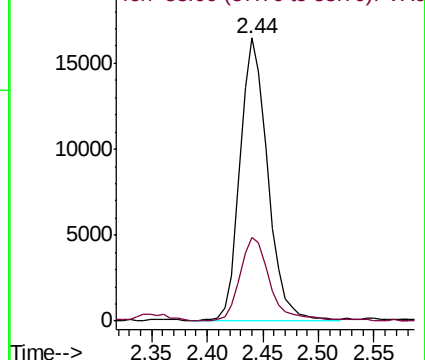
43 100

58 29.5 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008829.D

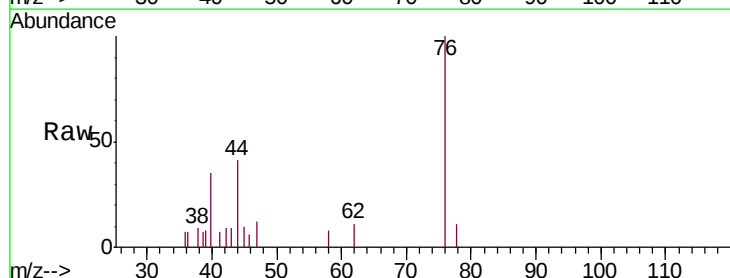
Acq: 11 Apr 2019 01:14

Tgt Ion: 76 Resp: 1451

Ion Ratio Lower Upper

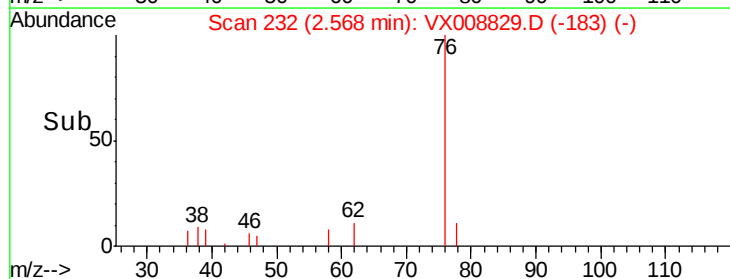
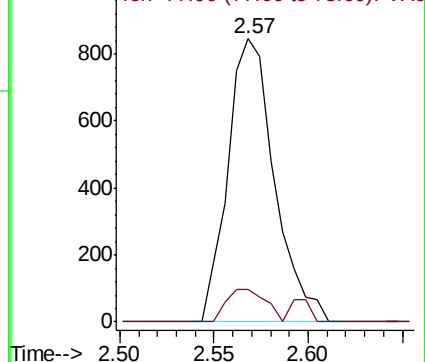
76 100

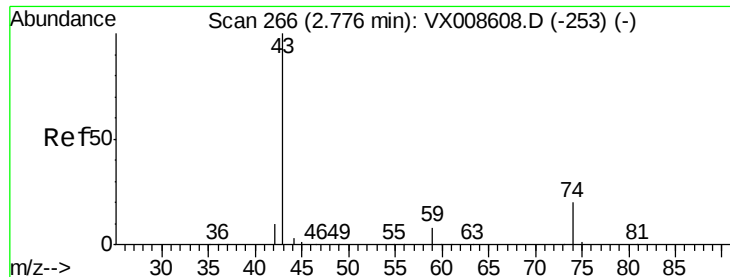
78 11.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

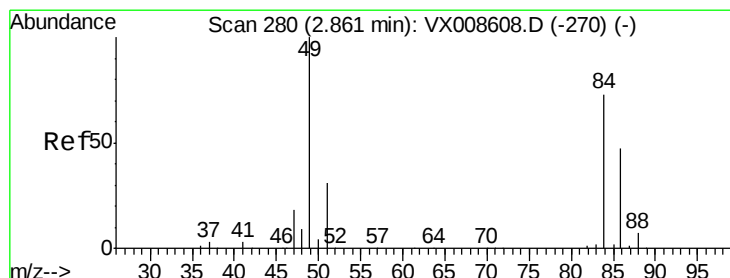
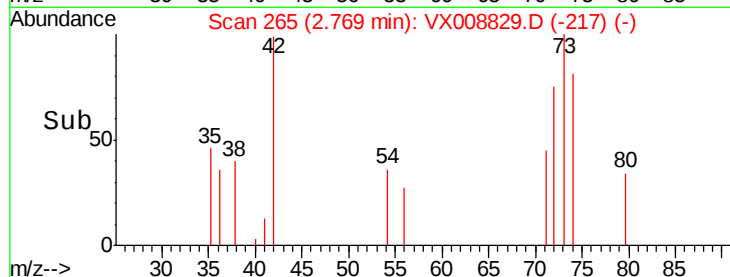
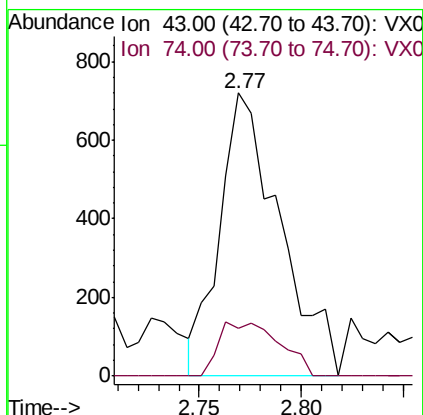
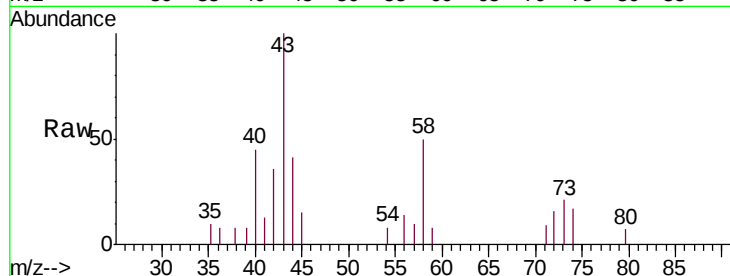




#18
Methyl Acetate
Concen: 0.369 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

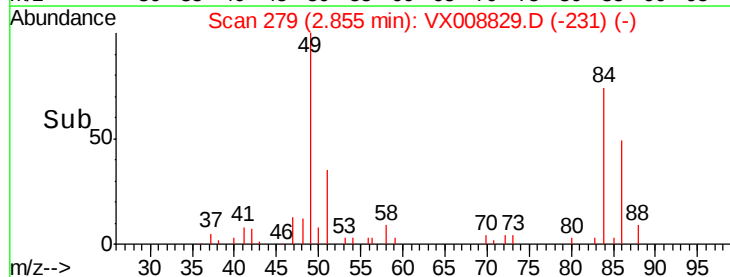
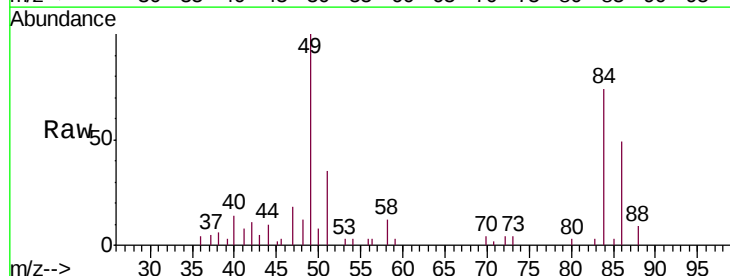
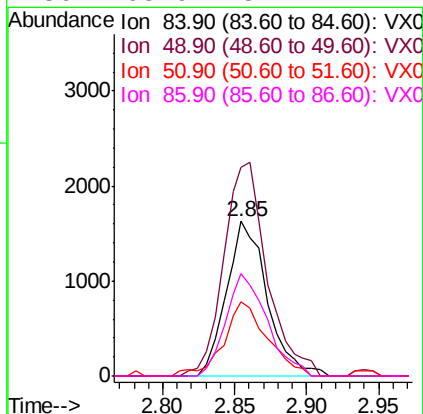
Instrument :
MSVOA_X
ClientSampleId :
SPLP-LECHATE-AMND-CS-4

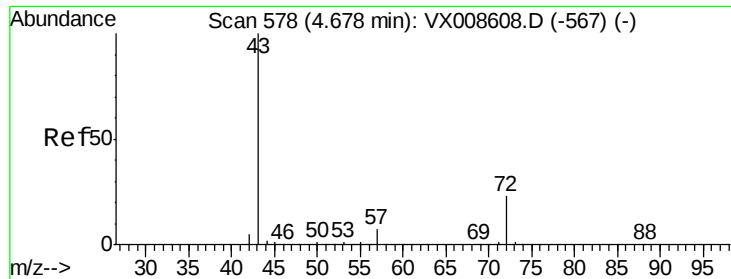
Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
74 19.2 16.5 24.7



#20
Methylene Chloride
Concen: 1.172 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Tgt Ion: 84 Resp: 3228
Ion Ratio Lower Upper
84 100
49 134.7 109.7 164.5
51 47.8 33.6 50.4
86 65.9 51.4 77.2





#25

2-Butanone

Concen: 2.128 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

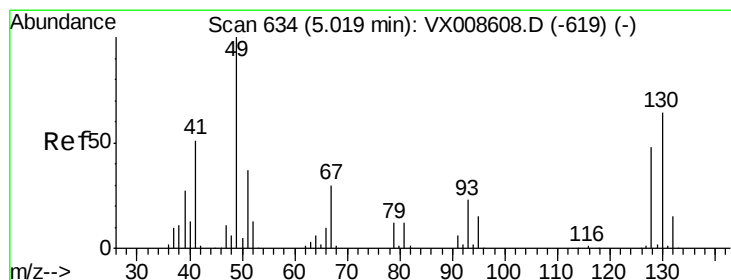
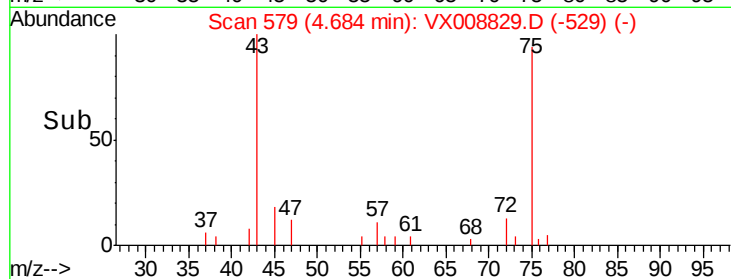
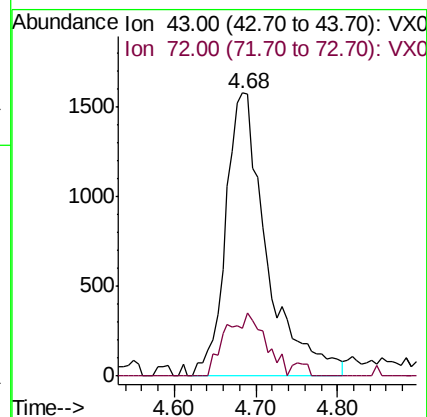
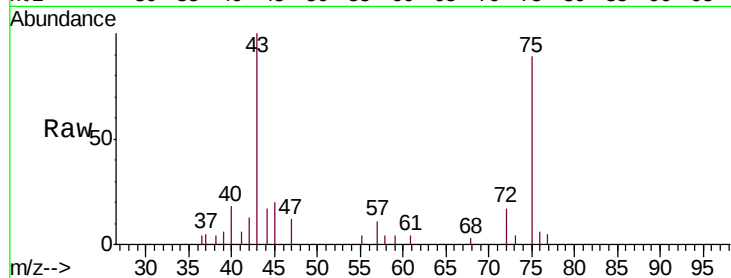
SPLP-LECHATE-AMND-CS-4

Tgt Ion: 43.00 Resp: 5534

Ion Ratio Lower Upper

43 100

72 16.9 18.2 27.4#



#28

Bromochloromethane

Concen: Below Cal

RT: 4.98 min Scan# 628

Delta R.T. -0.04 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

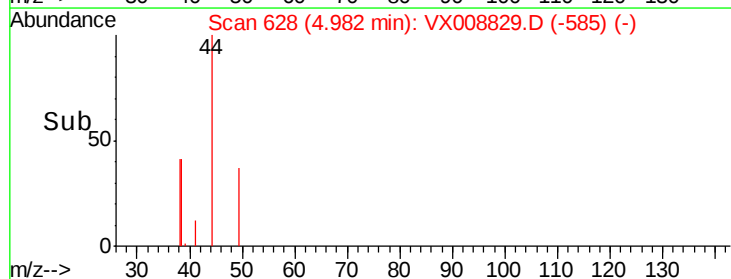
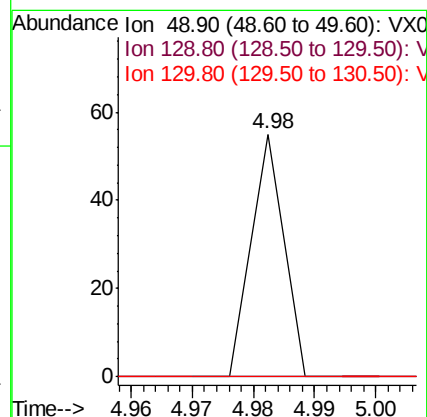
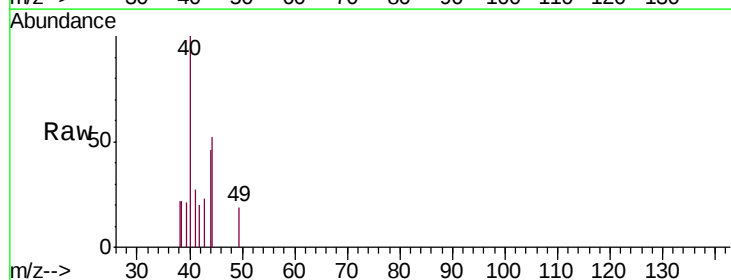
Tgt Ion: 49 Resp: 20

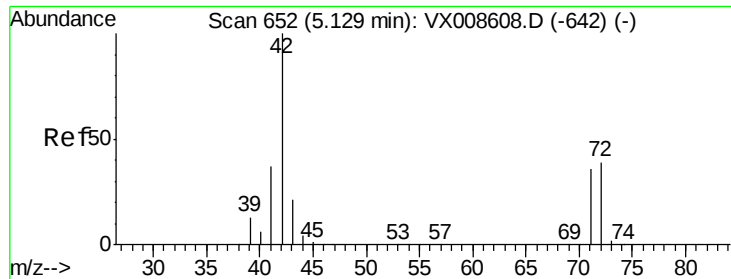
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#

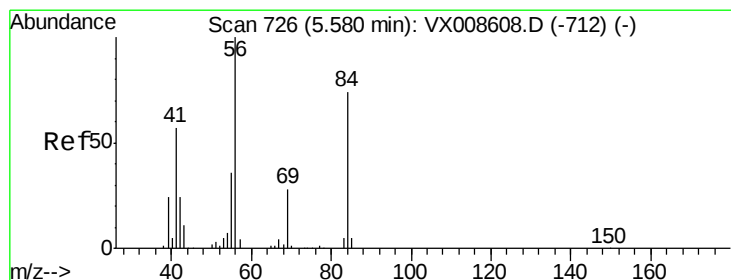
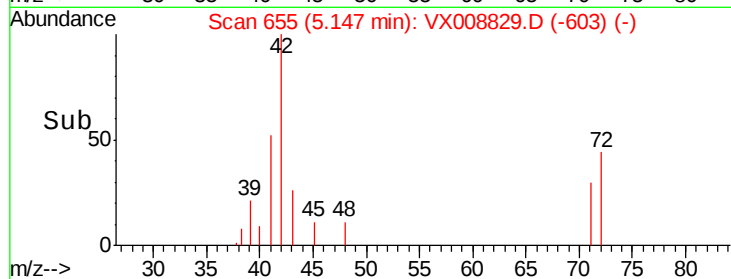
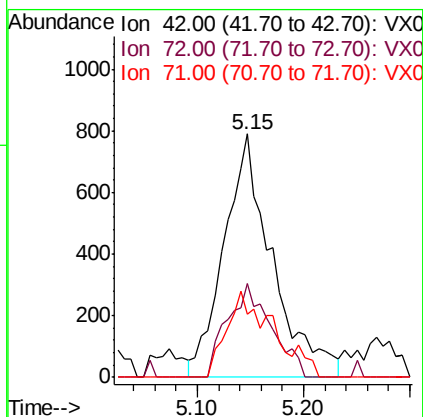
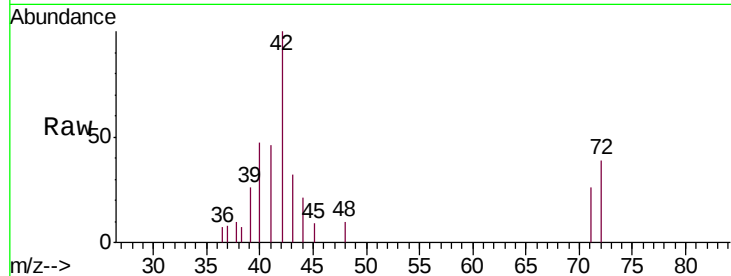




#29
Tetrahydrofuran
Concen: 1.444 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

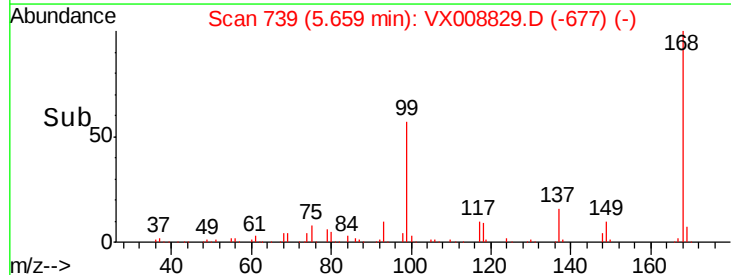
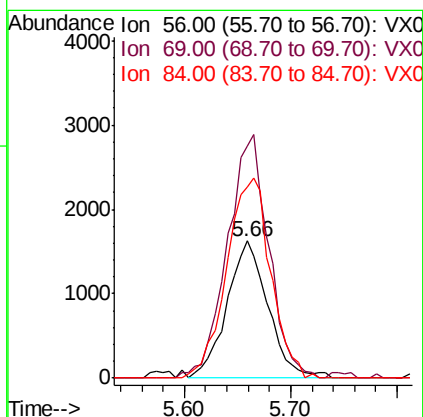
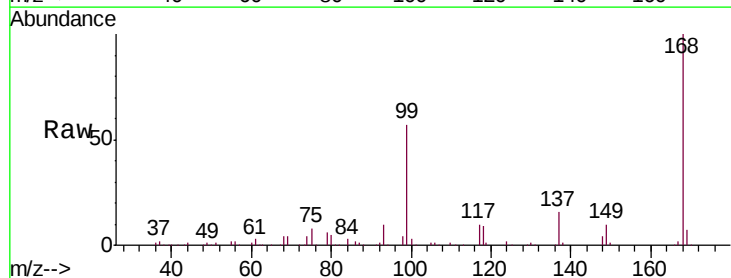
Instrument :
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SPLP-LECHATE-AMND-CS-4

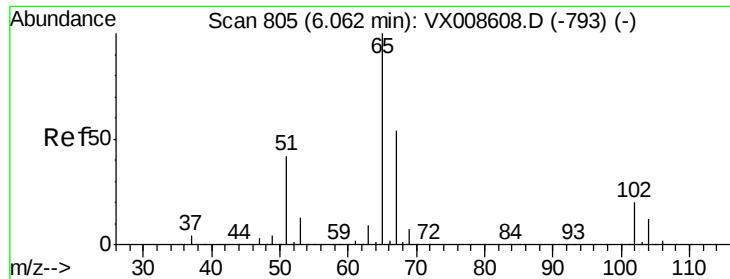
Tgt Ion: 42 Resp: 2492
Ion Ratio Lower Upper
42 100
72 35.2 30.5 45.7
71 31.1 28.6 43.0



#31
Cyclohexane
Concen: 0.891 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Tgt Ion: 56 Resp: 4399
Ion Ratio Lower Upper
56 100
69 165.0 22.6 33.8#
84 139.7 59.3 88.9#





#33

1,2-Dichloroethane-d4

Concen: 46.611 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

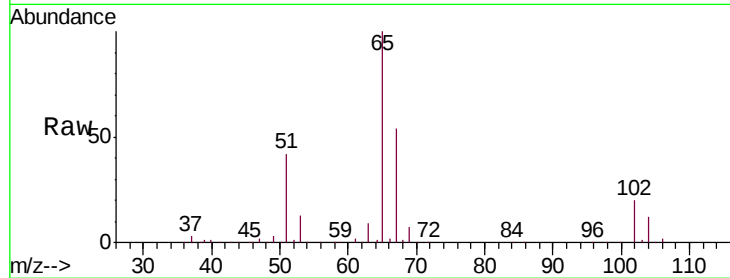
SPLP-LECHATE-AMND-CS-4

Tgt Ion: 65 Resp: 133147

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

60000

50000

40000

30000

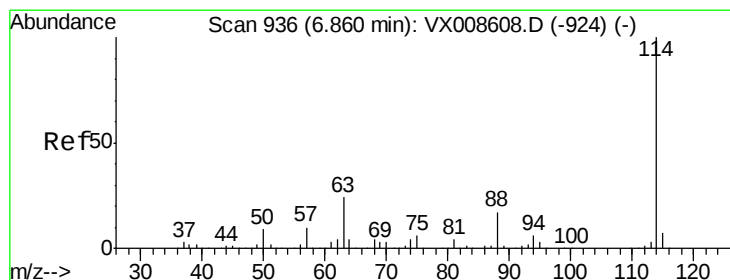
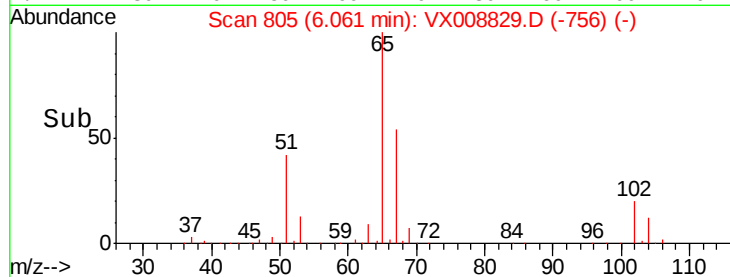
20000

10000

0

6.06

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

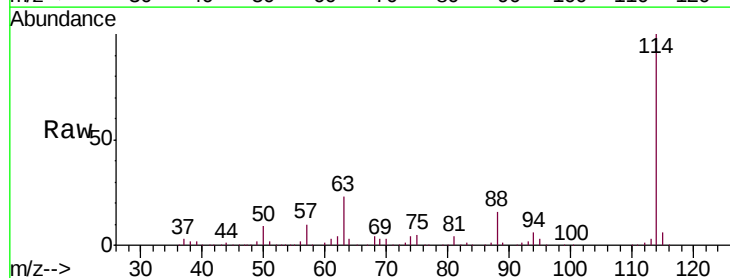
Tgt Ion: 114 Resp: 321543

Ion Ratio Lower Upper

114 100

63 23.2 0.0 47.2

88 16.4 0.0 34.0



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

150000

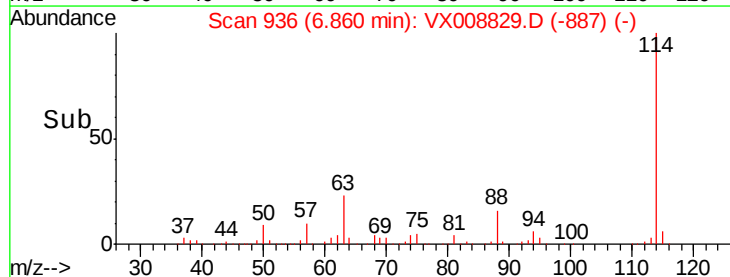
100000

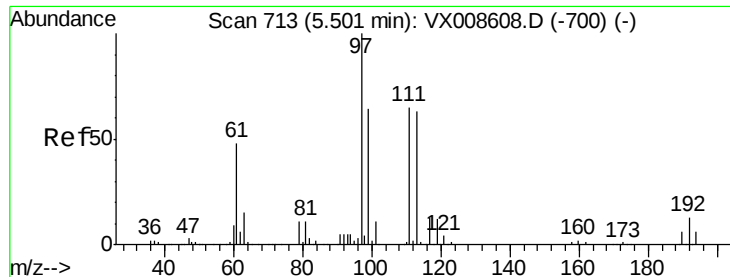
50000

0

6.86

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 38.605 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LECHATE-AMND-CS-4

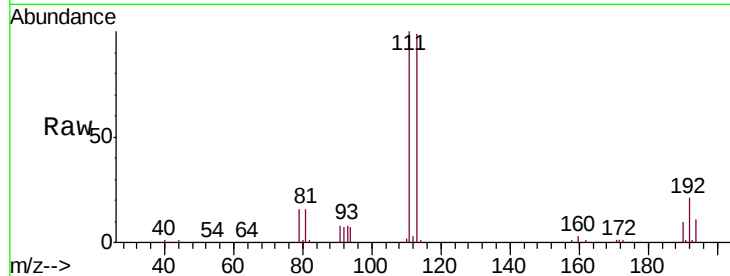
Tgt Ion:113 Resp: 79365

Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.2

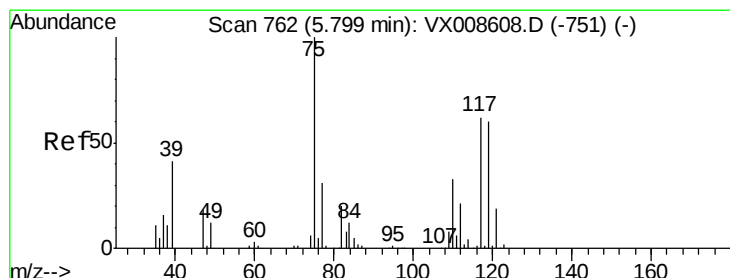
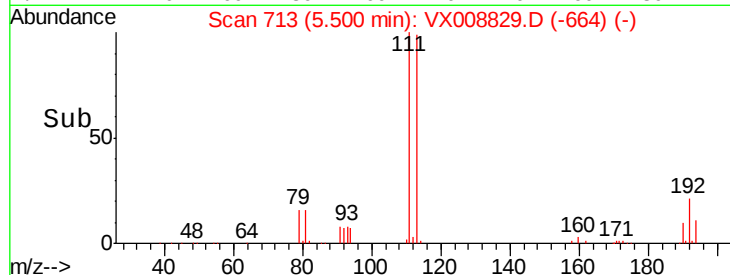
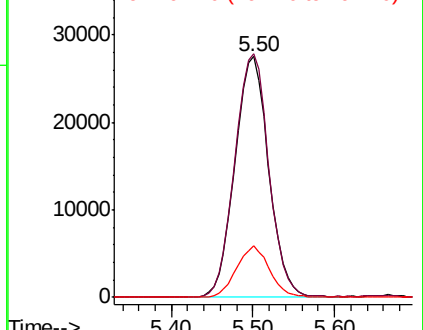
192 20.8 16.1 24.1



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: 4.504 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

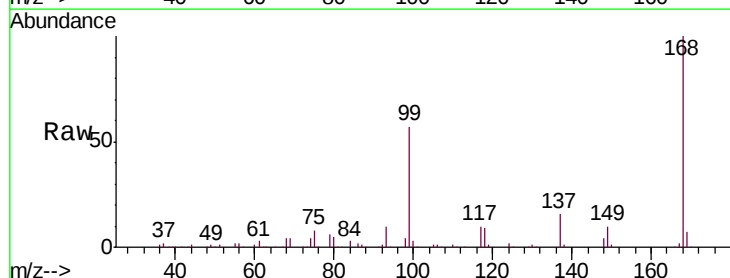
Tgt Ion: 75 Resp: 15829

Ion Ratio Lower Upper

75 100

110 9.0 16.4 49.2#

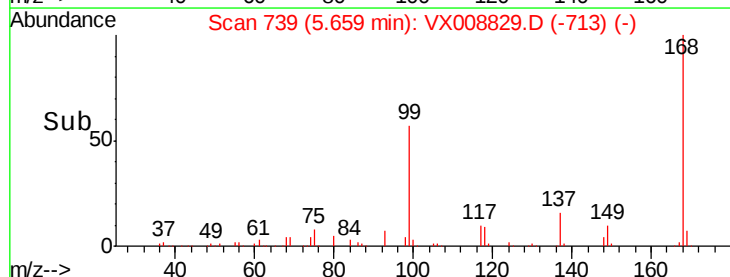
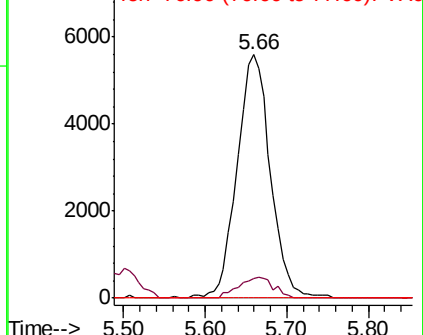
77 0.0 24.7 37.1#

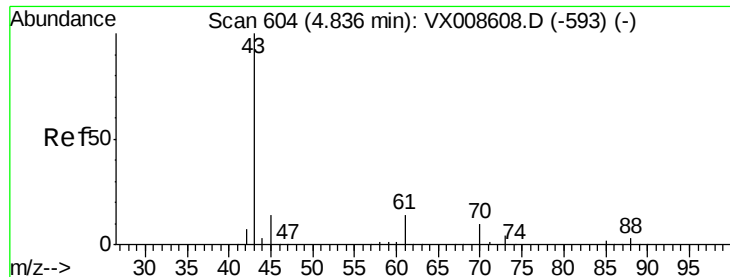


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.180 ug/l

RT: 4.68 min Scan# 579

Delta R.T. -0.15 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LECHATE-AMND-CS-4

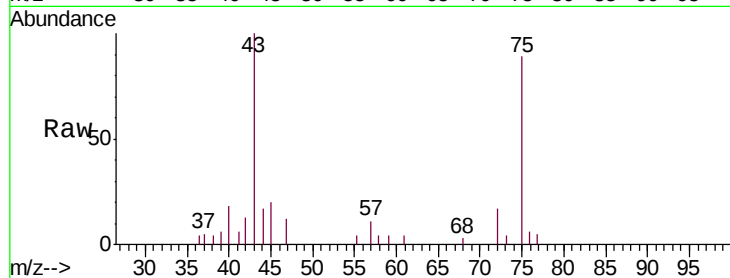
Tgt Ion: 43 Resp: 5534

Ion Ratio Lower Upper

43 100

61 1.2 10.3 15.5#

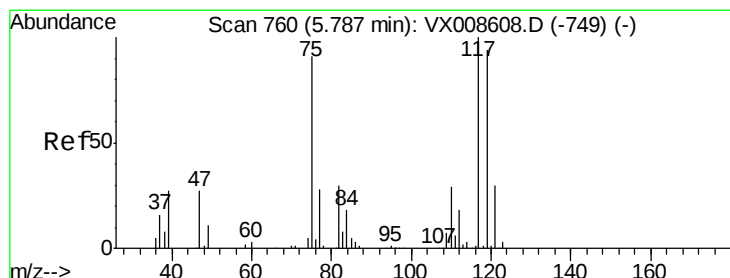
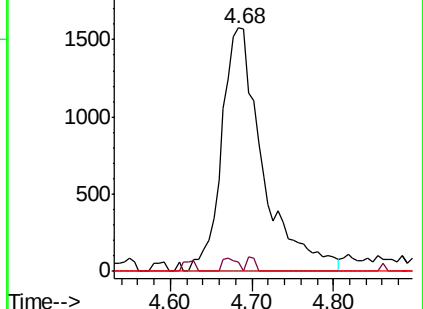
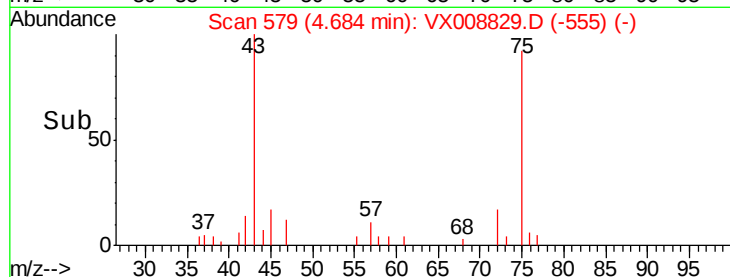
70 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX008829.D (-555) (-)

Ion 60.90 (60.60 to 61.60): VX008829.D (-555) (-)

Ion 70.00 (69.70 to 70.70): VX008829.D (-555) (-)



#38

Carbon Tetrachloride

Concen: 6.487 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

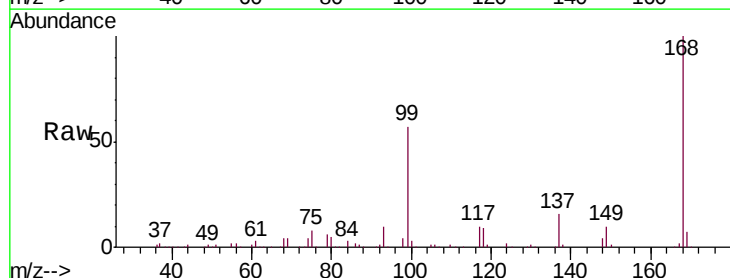
Tgt Ion: 117 Resp: 18872

Ion Ratio Lower Upper

117 100

119 5.5 75.0 112.6#

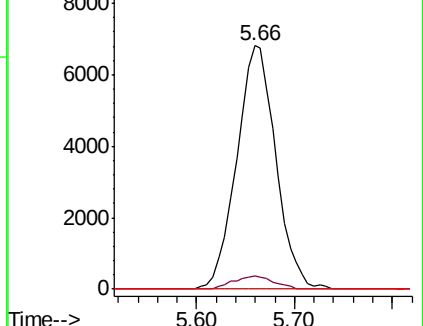
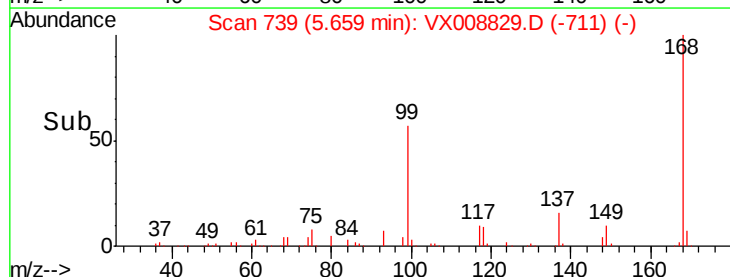
121 0.0 24.3 36.5#

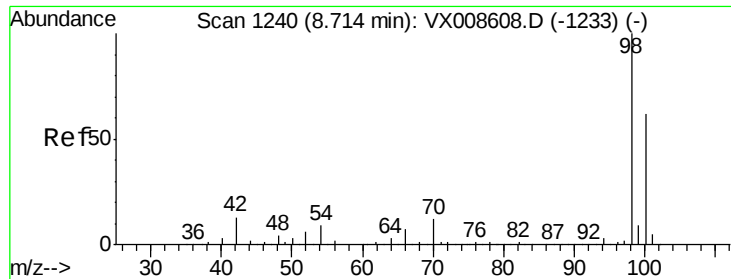


Abundance Ion 116.80 (116.50 to 117.50): VX008829.D (-711) (-)

Ion 118.80 (118.50 to 119.50): VX008829.D (-711) (-)

Ion 120.80 (120.50 to 121.50): VX008829.D (-711) (-)

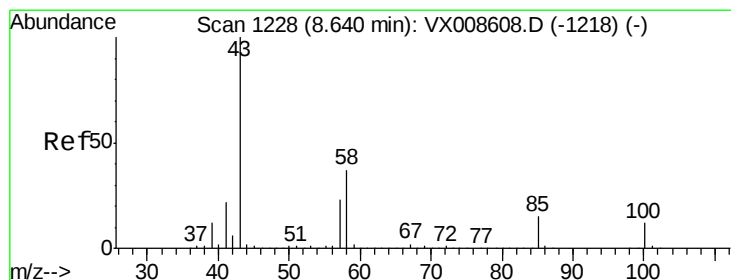
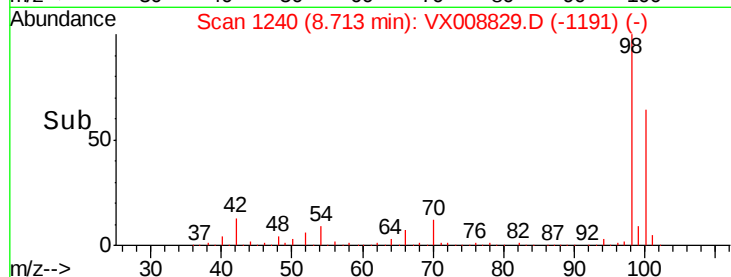
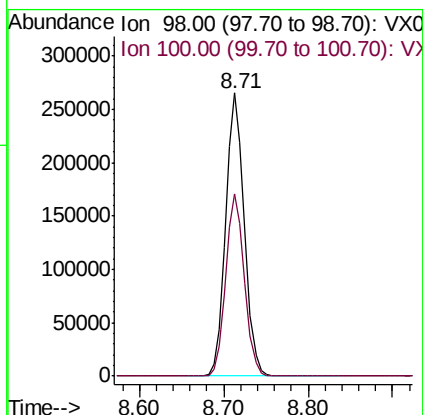
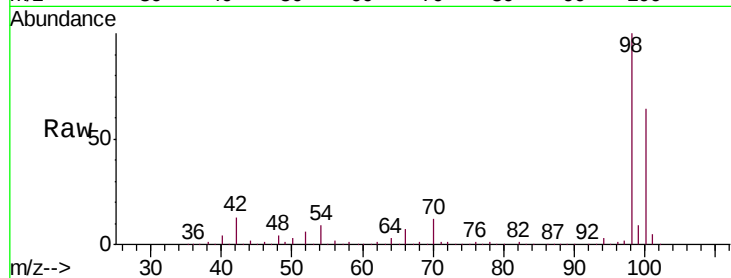




#50
Toluene-d8
Concen: 49.204 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

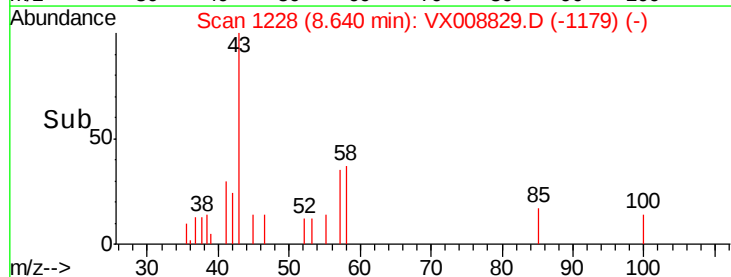
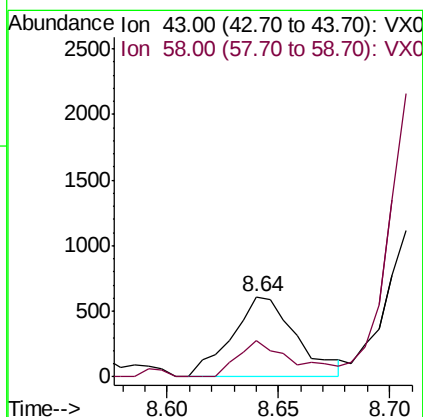
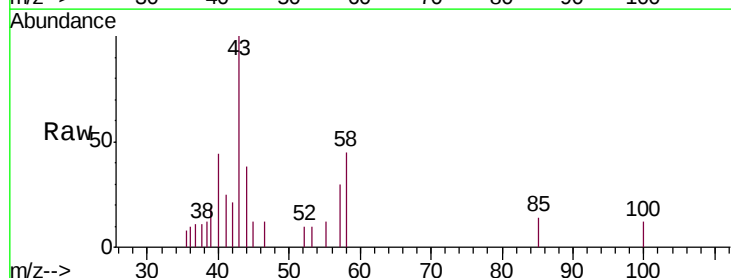
Instrument :
MSVOA_X
ClientSampleId :
SPLP-LECHATE-AMND-CS-4

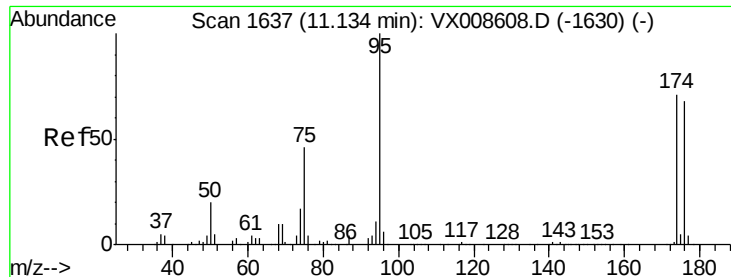
Tgt Ion: 98 Resp: 402770
Ion Ratio Lower Upper
98 100
100 64.3 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 0.260 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. -0.00 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Tgt Ion: 43 Resp: 1230
Ion Ratio Lower Upper
43 100
58 39.8 29.5 44.3





#62

4-Bromofluorobenzene

Concen: 47.663 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LECHATE-AMND-CS-4

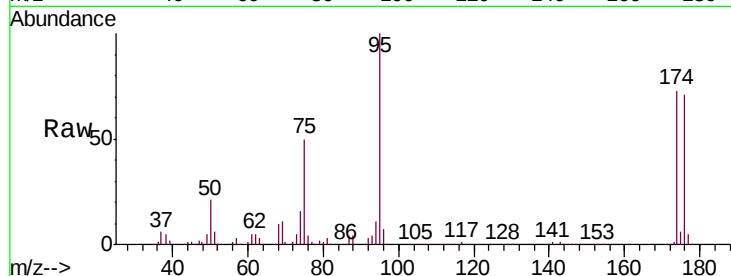
Tgt Ion: 95 Resp: 138356

Ion Ratio Lower Upper

95 100

174 77.8 0.0 151.8

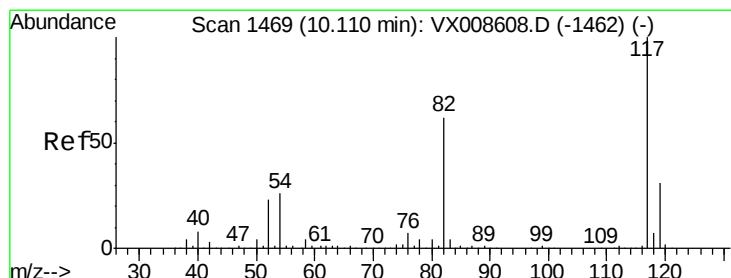
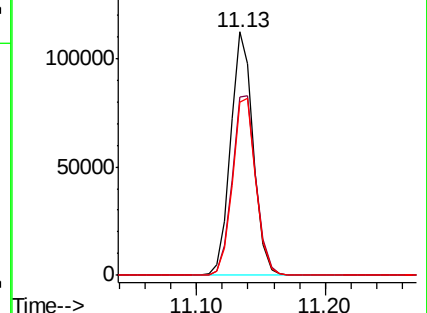
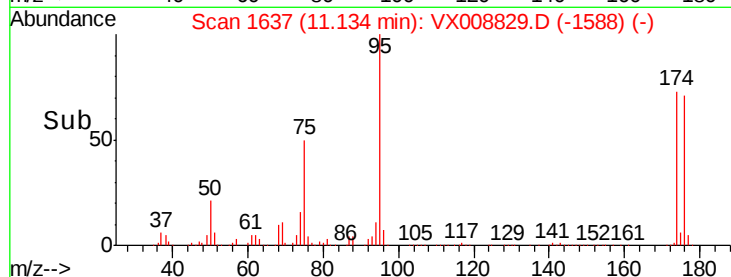
176 74.9 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008829.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008829.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008829.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

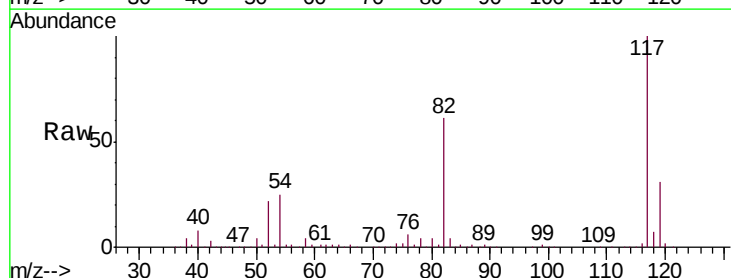
Tgt Ion: 117 Resp: 283578

Ion Ratio Lower Upper

117 100

82 60.7 49.6 74.4

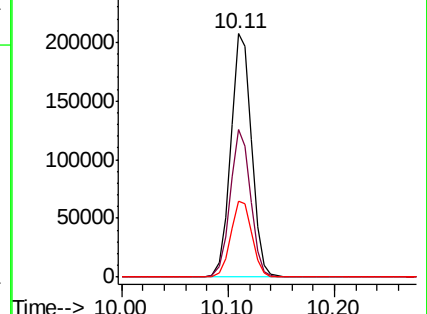
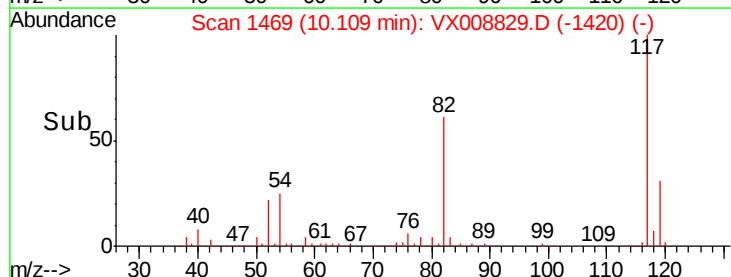
119 31.3 25.0 37.4

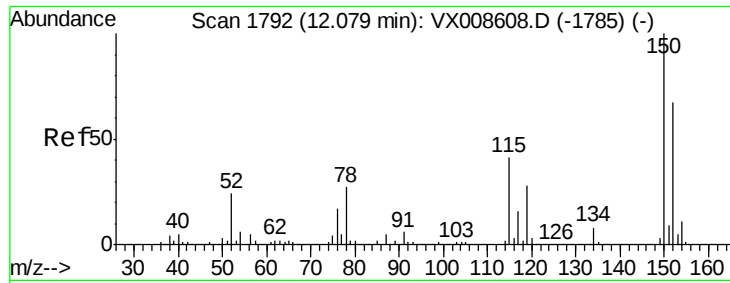


Abundance Ion 116.90 (116.60 to 117.60): VX008829.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008829.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008829.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008829.D

Acq: 11 Apr 2019 01:14

Instrument :

MSVOA_X

ClientSampleId :

SPLP-LECHATE-AMND-CS-4

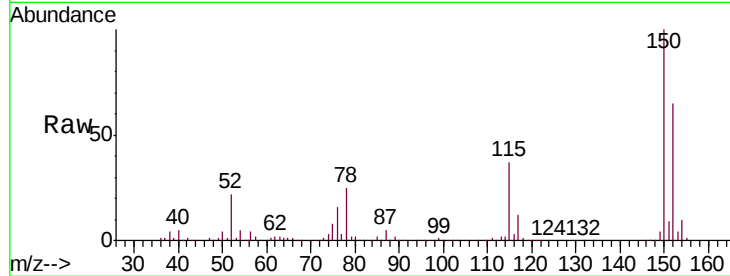
Tgt Ion:152 Resp: 123039

Ion Ratio Lower Upper

152 100

115 59.2 43.5 130.5

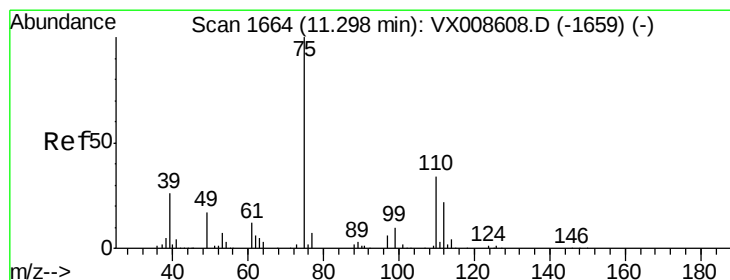
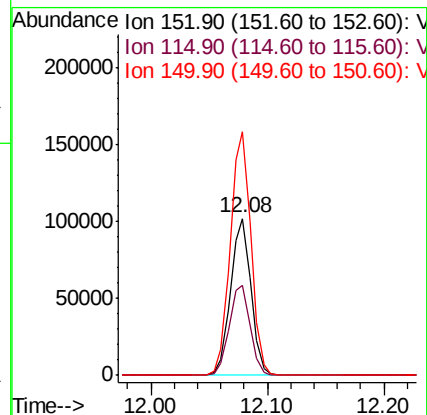
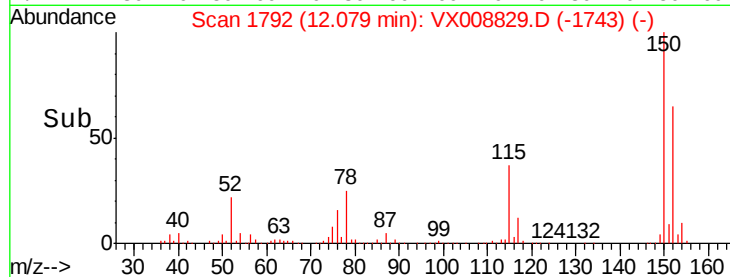
150 157.1 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.494 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008829.D

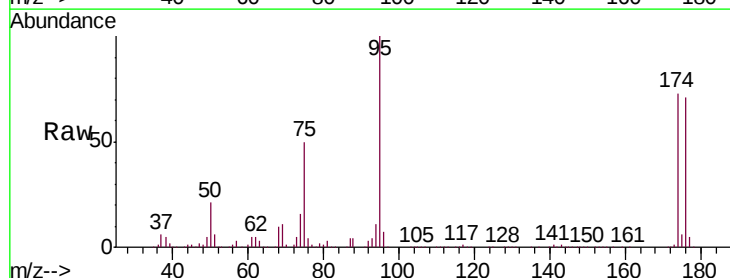
Acq: 11 Apr 2019 01:14

Tgt Ion: 75 Resp: 69270

Ion Ratio Lower Upper

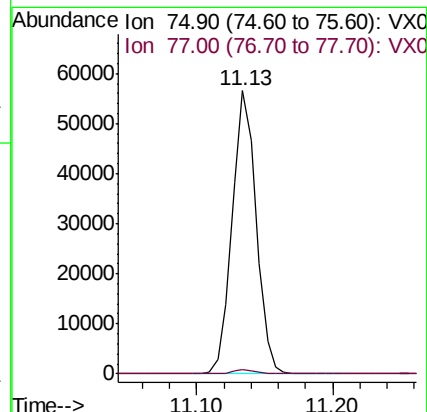
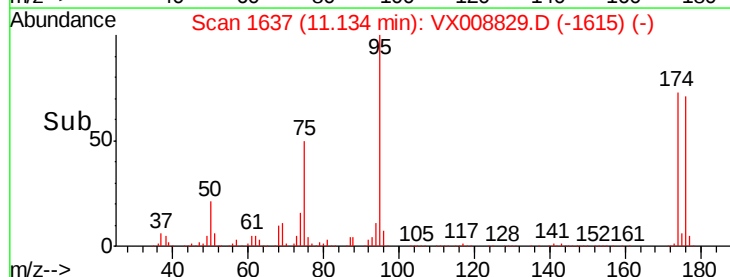
75 100

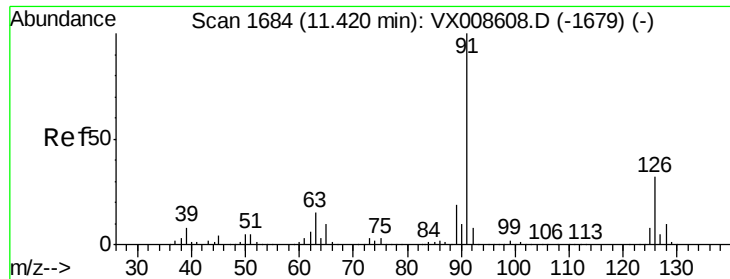
77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

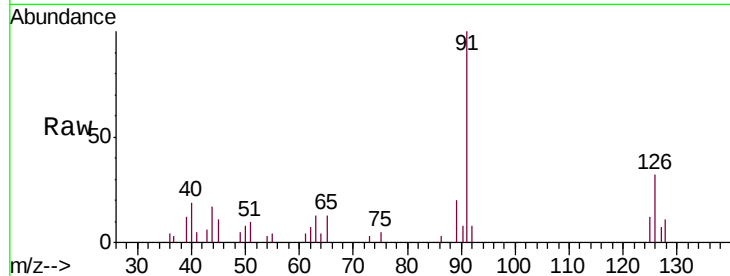




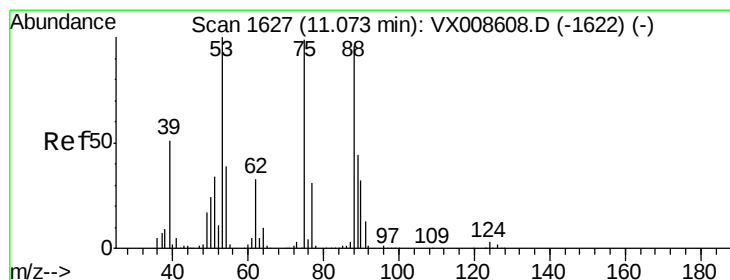
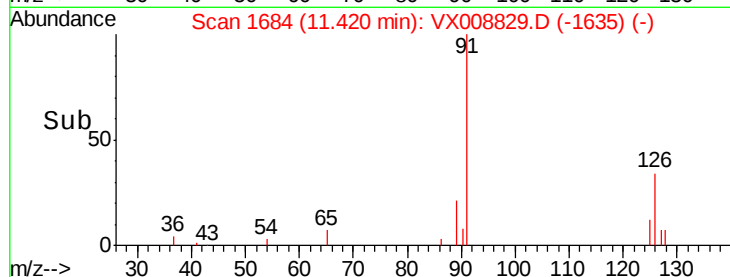
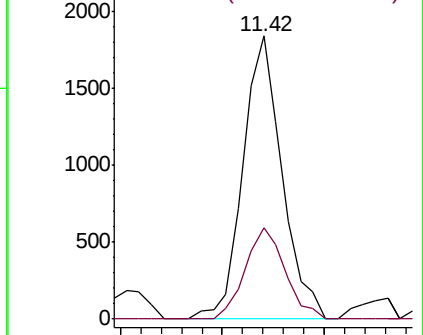
#79
 2-Chlorotoluene
 Concen: 0.341 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.00 min
 Lab File: VX008829.D
 Acq: 11 Apr 2019 01:14

Instrument :
 MSVOA_X
 ClientSampleId :
 SPLP-LECHATE-AMND-CS-4

Tgt Ion: 91 Resp: 2448
 Ion Ratio Lower Upper
 91 100
 126 32.9 16.1 48.3

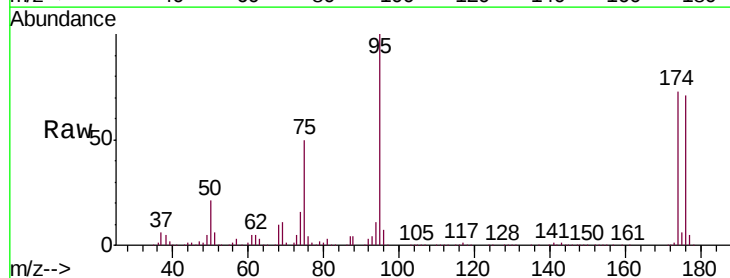


Abundance Ion 91.00 (90.70 to 91.70): VX0
 Ion 125.90 (125.60 to 126.60): V

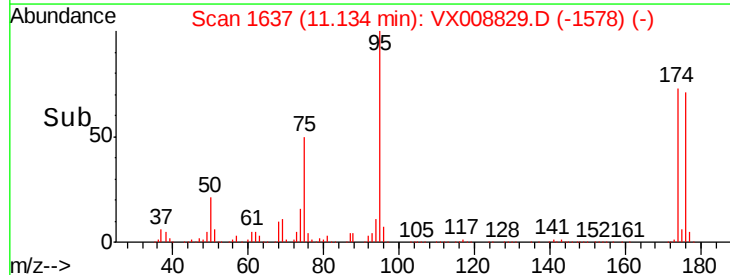
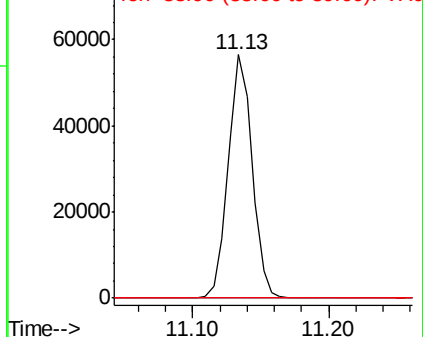


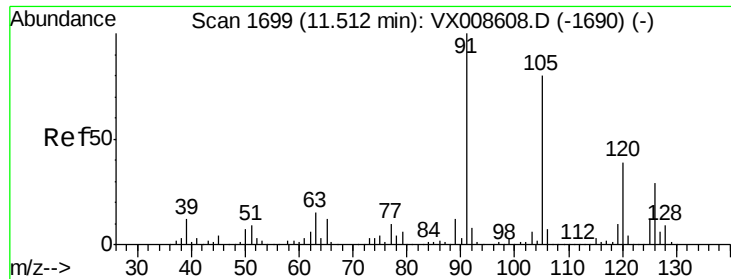
#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.493 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008829.D
 Acq: 11 Apr 2019 01:14

Tgt Ion: 75 Resp: 69270
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#



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

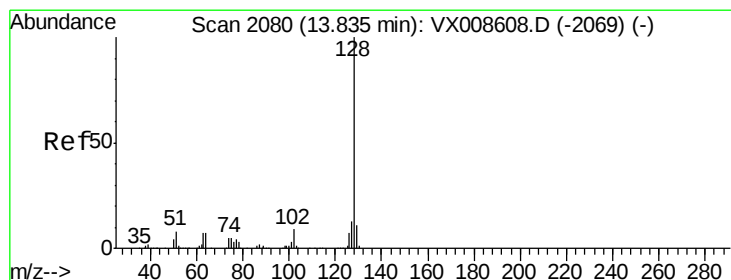
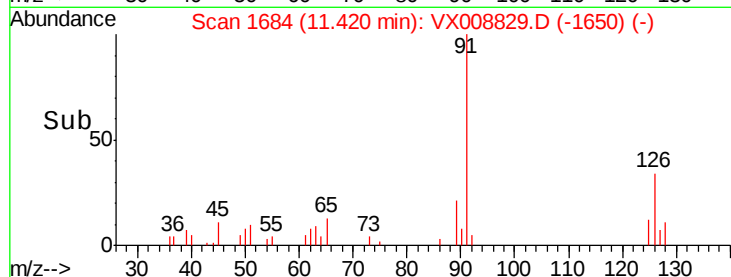
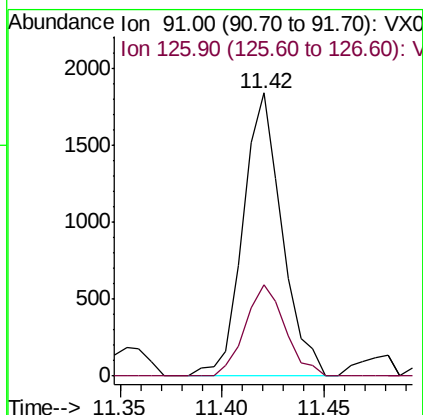
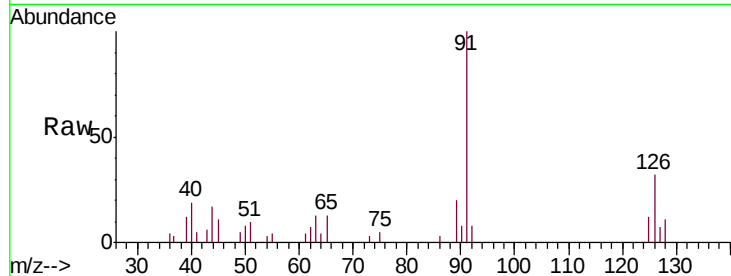




#82
4-Chlorotoluene
Concen: 0.294 ug/l
RT: 11.42 min Scan# 1684
Delta R.T. -0.09 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Instrument :
MSVOA_X
ClientSampleId :
SPLP-LECHATE-AMND-CS-4

Tgt Ion: 91 Resp: 2448
Ion Ratio Lower Upper
91 100
126 32.9 13.9 41.6



#95
Naphthalene
Concen: 0.207 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX008829.D
Acq: 11 Apr 2019 01:14

Tgt Ion: 128 Resp: 2099
Ion Ratio Lower Upper
128 100
127 12.1 10.4 15.6
129 10.8 8.6 13.0

