

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102218\
 Data File : VX005487.D
 Acq On : 22 Oct 2018 22:47
 Operator : JC/MD
 Sample : J5538-22 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CNL01

Quant Time: Oct 23 01:31:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	245431	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	337617	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146863	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	146903	53.93	ug/l	0.00
Spiked Amount			Recovery	=	107.86%	
35) Dibromofluoromethane	5.51	113	115109	51.48	ug/l	0.01
Spiked Amount			Recovery	=	102.96%	
50) Toluene-d8	8.71	98	397073	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.14	95	131905	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

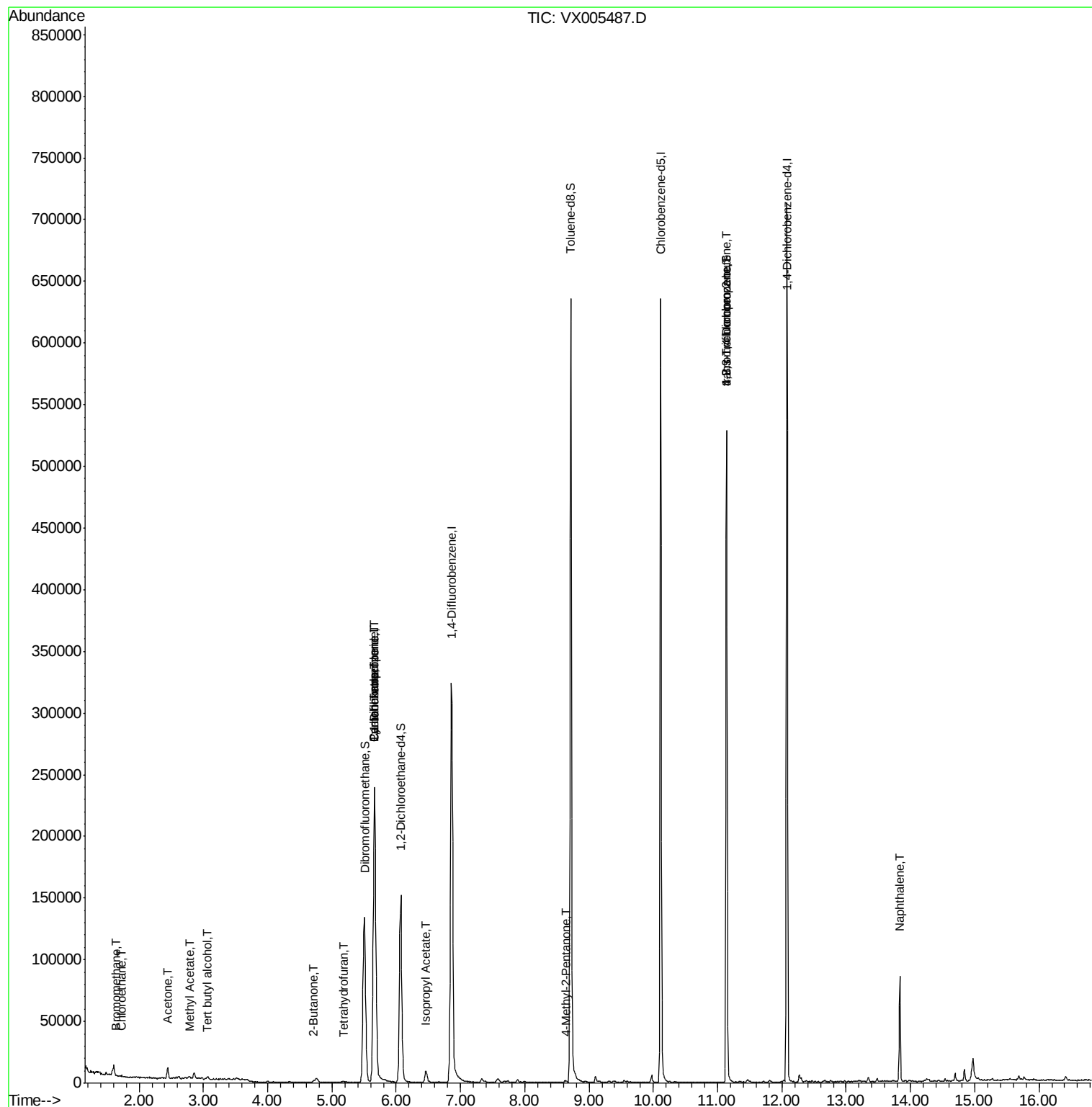
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	219	0.720	ug/l #	3
6) Chloroethane	1.73	64	19	0.345	ug/l #	44
11) Tert butyl alcohol	3.07	59	2151	2.799	ug/l #	89
13) Acrolein	2.29	56	66	Below Cal	#	57
16) Acetone	2.45	43	8741	5.550	ug/l	92
18) Methyl Acetate	2.78	43	2207	0.493	ug/l	99
20) Methylene Chloride	2.86	84	2182	Below Cal	#	88
25) 2-Butanone	4.70	43	1962	0.851	ug/l #	67
29) Tetrahydrofuran	5.17	42	362	0.246	ug/l	93
31) Cyclohexane	5.66	56	4626	1.235	ug/l #	36
36) 1,1-Dichloropropene	5.66	75	17156	5.247	ug/l #	49
38) Carbon Tetrachloride	5.67	117	21835	6.646	ug/l #	15
43) Isopropyl Acetate	6.46	43	12187	2.176	ug/l	98
51) 4-Methyl-2-Pentanone	8.65	43	913	0.235	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	67398	23.659	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	67398	71.887	ug/l #	10
95) Naphthalene	13.83	128	51231	5.058	ug/l	98

(#) = 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. -0.01 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

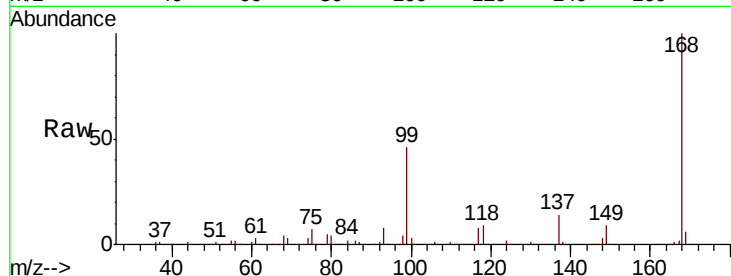
CNL01

Tot Ion:168 Resp: 245431

Ion Ratio Lower Upper

168 100

99 46.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

60000

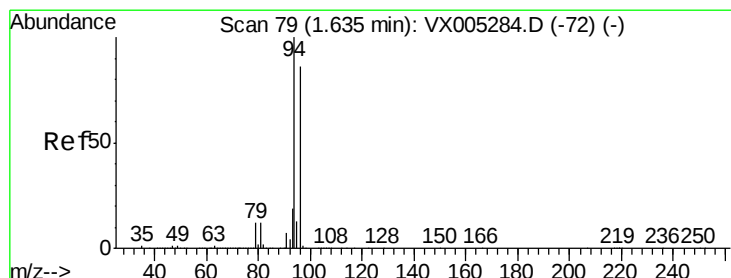
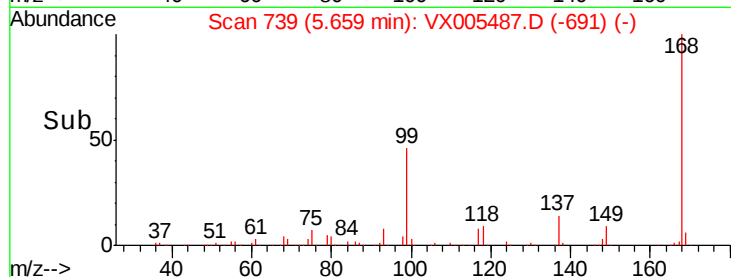
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.720 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005487.D

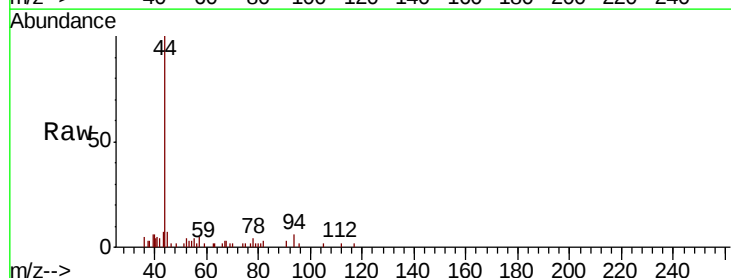
Acq: 22 Oct 2018 22:47

Tgt Ion: 94 Resp: 219

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

150

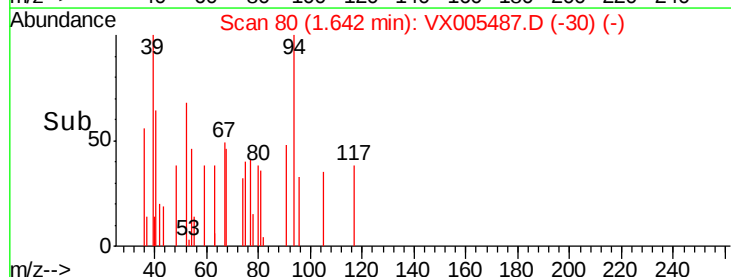
100

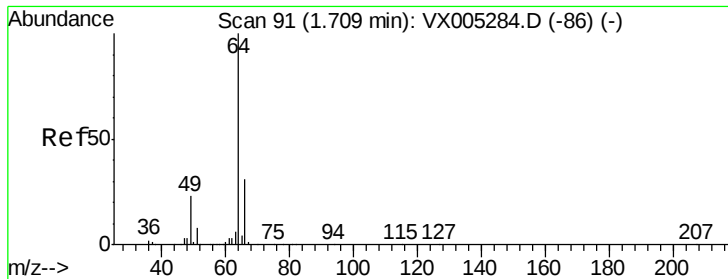
50

0

Time-->

1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.345 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

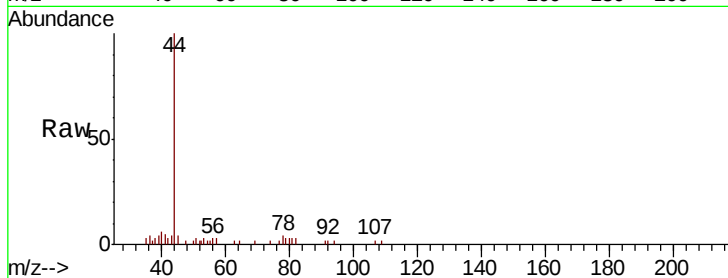
CNL01

Tot Ion: 64 Resp: 19

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

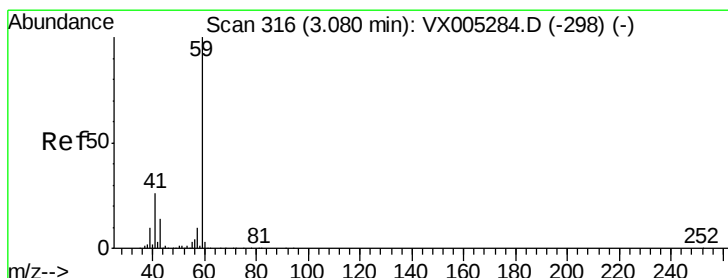
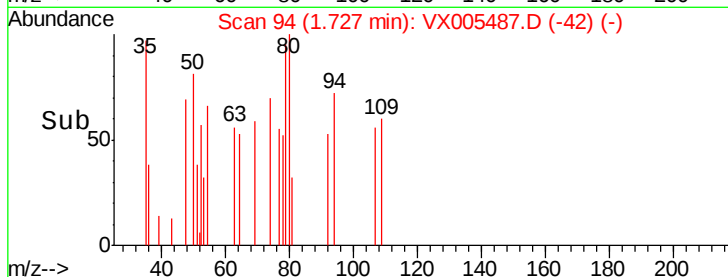
100

50

0

1.71 1.72 1.73 1.74

Time-->



#11

Tert butyl alcohol

Concen: 2.799 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX005487.D

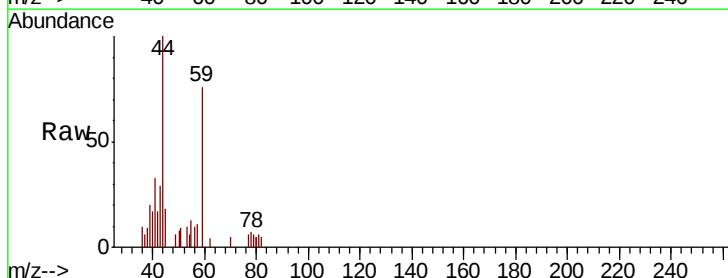
Acq: 22 Oct 2018 22:47

Tgt Ion: 59 Resp: 2151

Ion Ratio Lower Upper

59 100

57 14.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1000

800

600

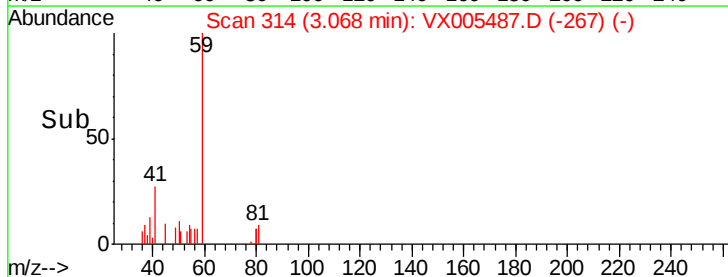
400

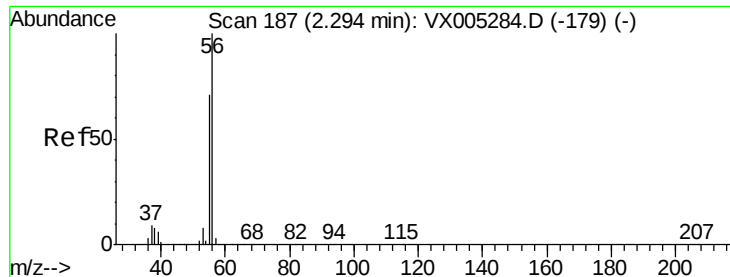
200

0

3.00 3.05 3.10 3.15

Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

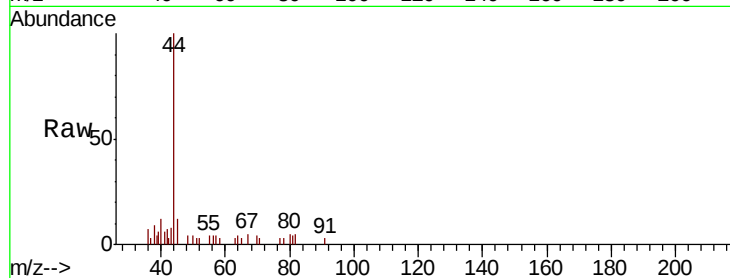
CNL01

Tot Ion: 56 Resp: 66

Ion Ratio Lower Upper

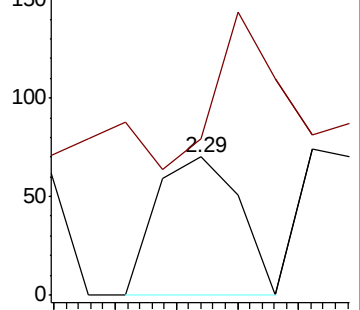
56 100

55 103.0 54.7 82.1#

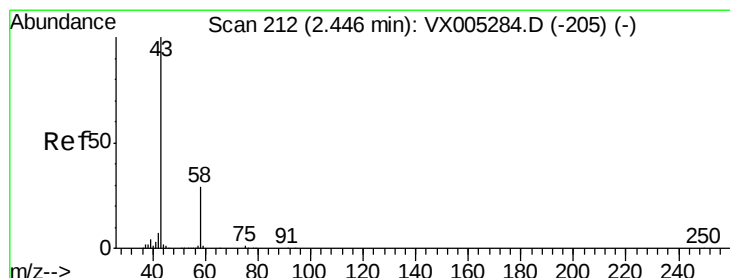
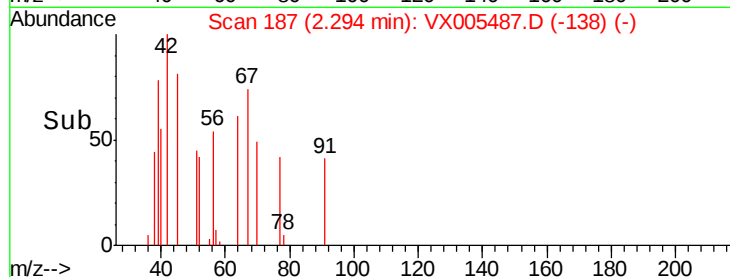


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time--> 2.27 2.28 2.29 2.30 2.31



#16

Acetone

Concen: 5.550 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005487.D

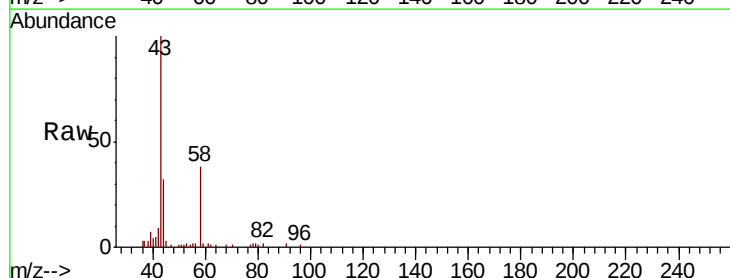
Acq: 22 Oct 2018 22:47

Tgt Ion: 43 Resp: 8741

Ion Ratio Lower Upper

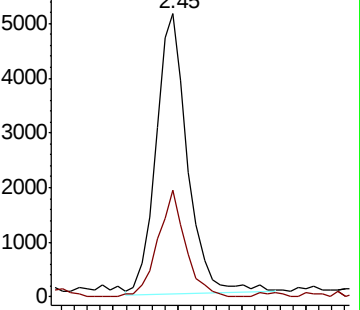
43 100

58 37.1 26.2 39.4

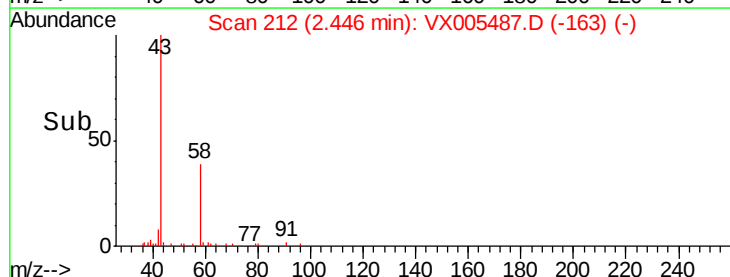


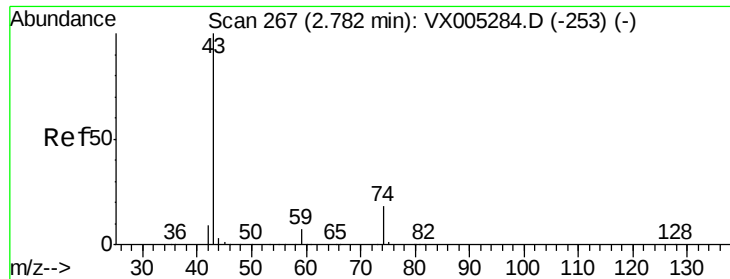
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 2.40 2.45 2.50 2.55

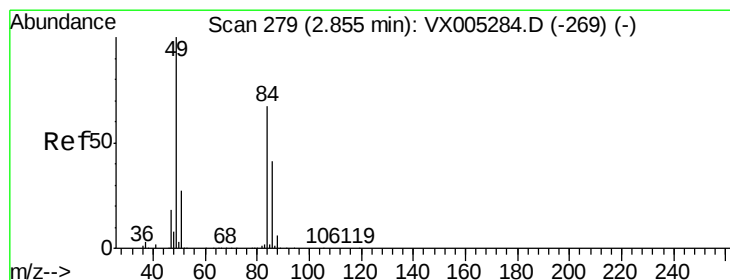
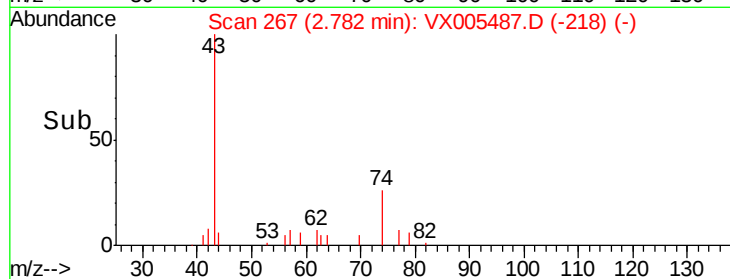
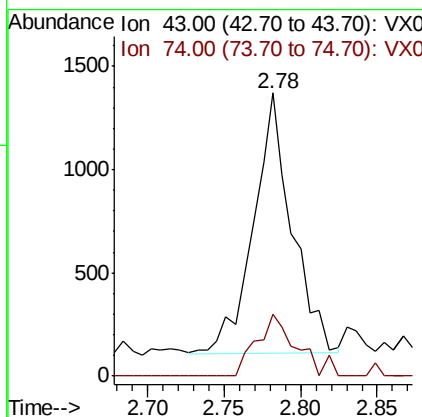
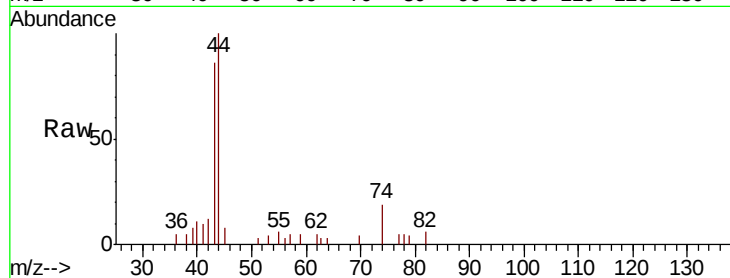




#18
Methyl Acetate
Concen: 0.493 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005487.D
Acq: 22 Oct 2018 22:47

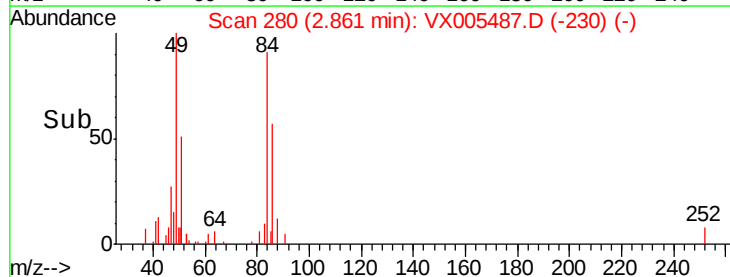
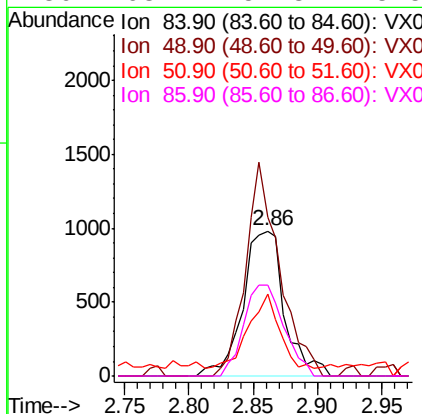
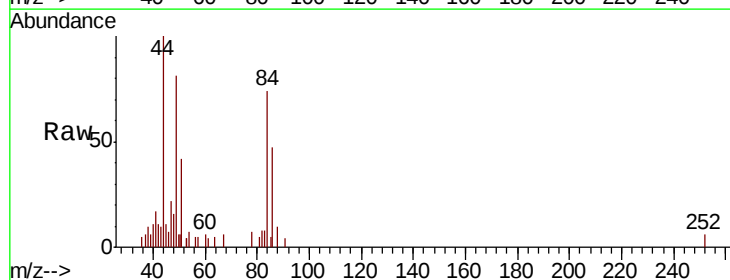
Instrument :
MSVOA_X
ClientSampleId :
CNL01

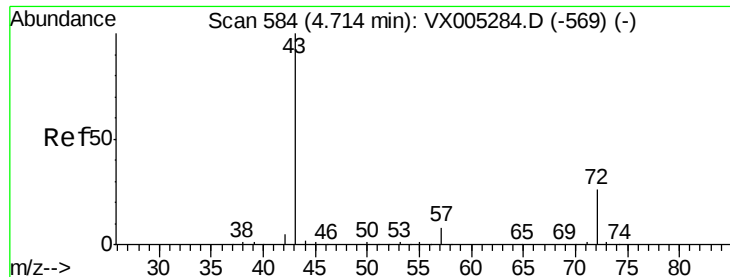
Tot Ion: 43 Resp: 2207
Ion Ratio Lower Upper
43 100
74 24.8 19.4 29.2



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005487.D
Acq: 22 Oct 2018 22:47

Tgt Ion: 84 Resp: 2182
Ion Ratio Lower Upper
84 100
49 110.1 101.2 151.8
51 49.8 29.5 44.3#
86 63.1 52.3 78.5





#25

2-Butanone

Concen: 0.851 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

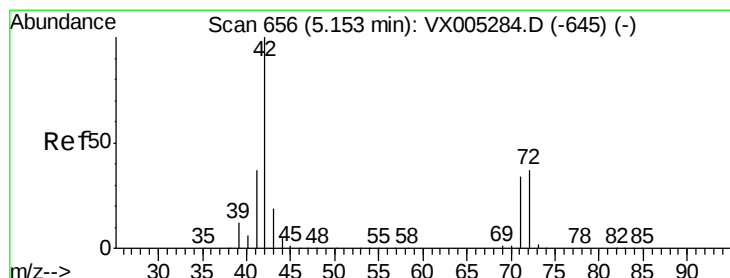
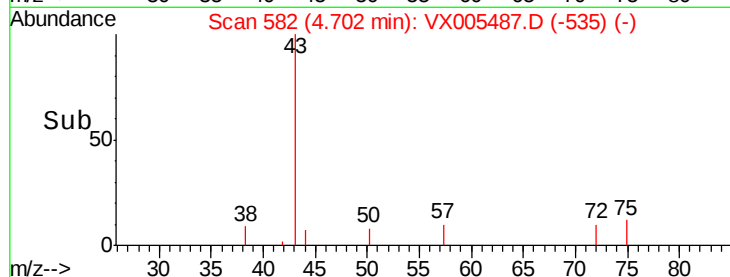
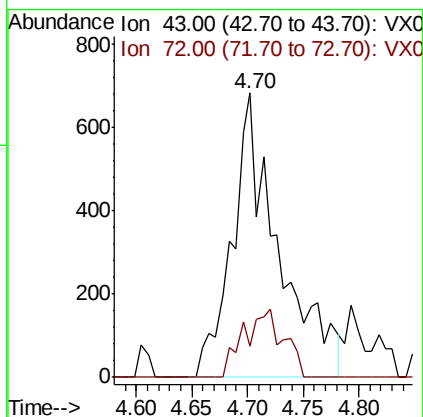
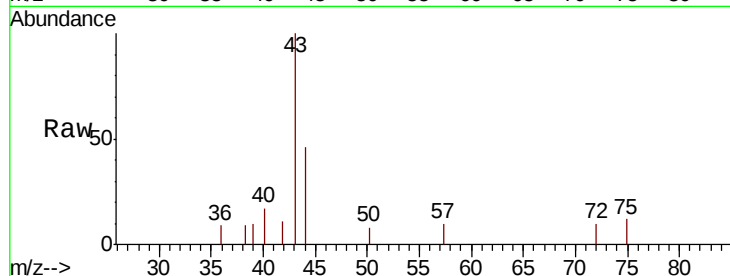
CNL01

Tot Ion: 43 Resp: 1962

Ion Ratio Lower Upper

43 100

72 10.4 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

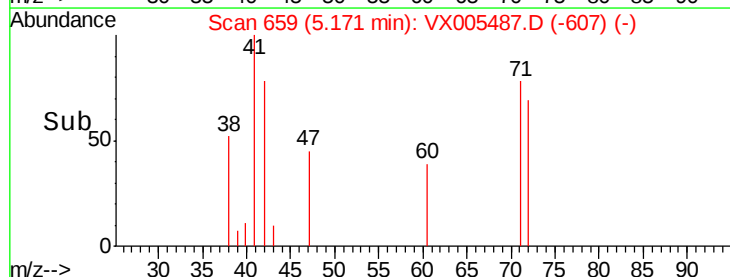
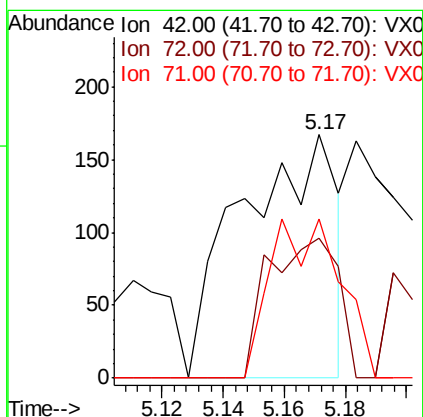
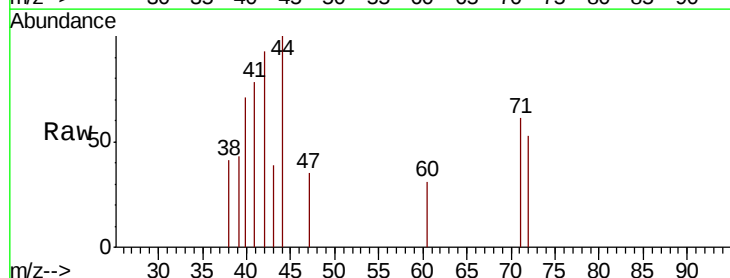
Tgt Ion: 42 Resp: 362

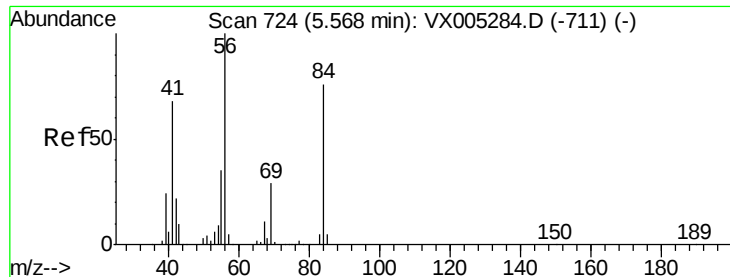
Ion Ratio Lower Upper

42 100

72 42.3 37.4 56.0

71 47.8 34.5 51.7

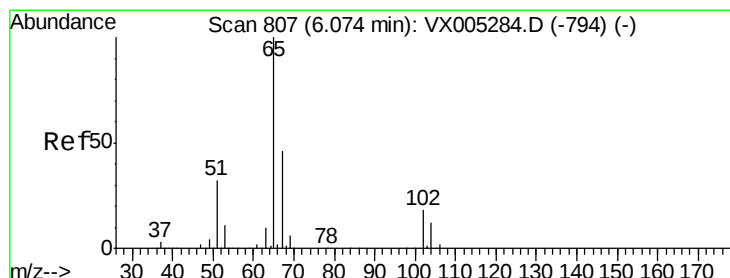
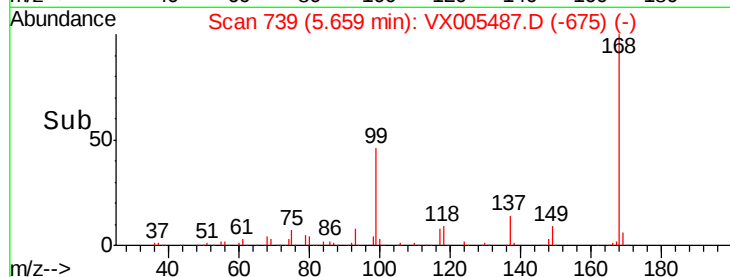
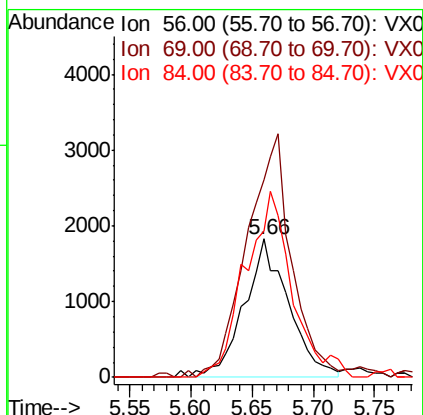
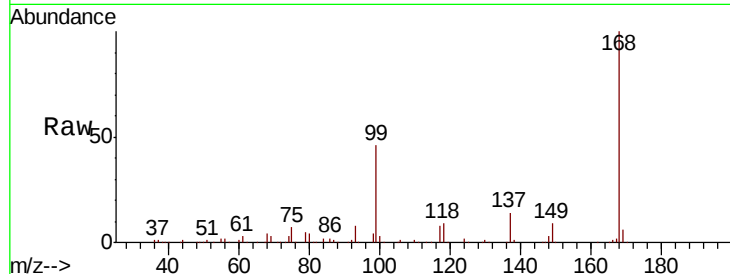




#31
Cyclohexane
Concen: 1.235 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005487.D
Acq: 22 Oct 2018 22:47

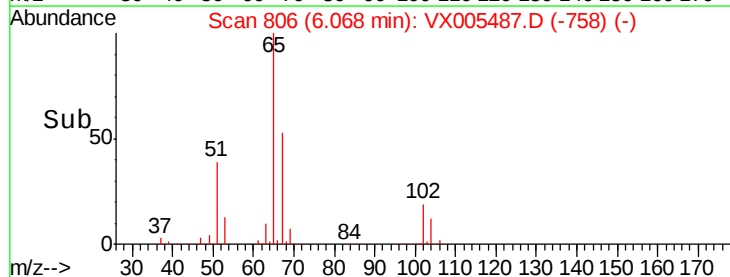
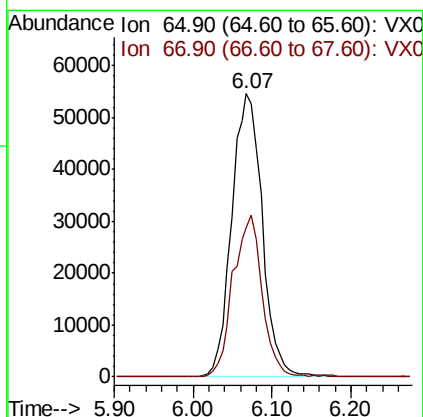
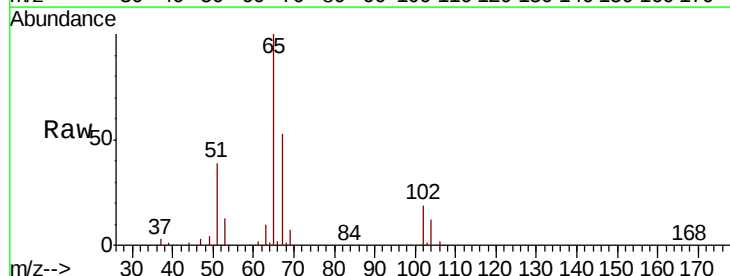
Instrument :
MSVOA_X
ClientSampleId :
CNL01

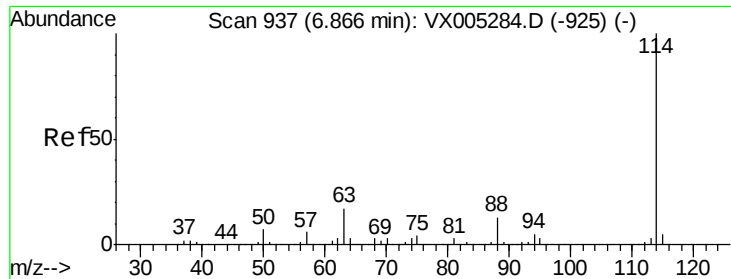
Tot Ion: 56 Resp: 4626
Ion Ratio Lower Upper
56 100
69 138.4 25.4 38.2#
84 106.2 71.4 107.2



#33
1,2-Dichloroethane-d4
Concen: 53.931 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX005487.D
Acq: 22 Oct 2018 22:47

Tgt Ion: 65 Resp: 146903
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8

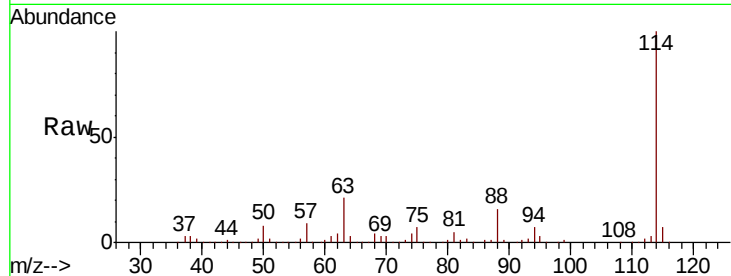




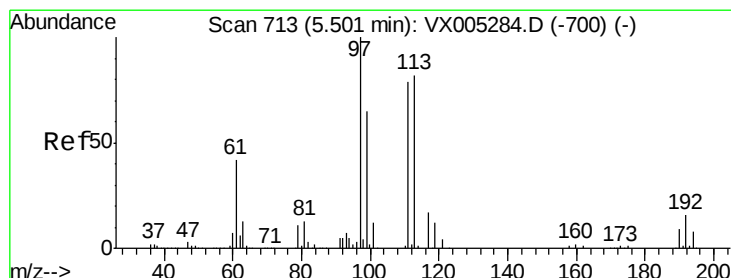
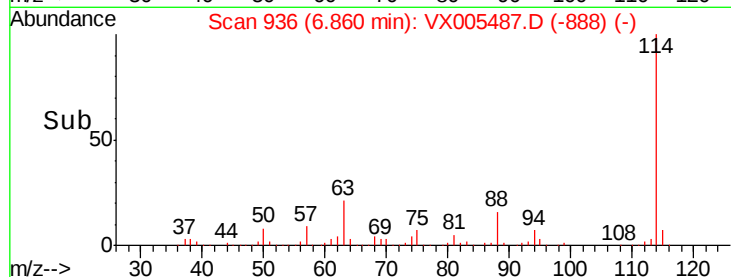
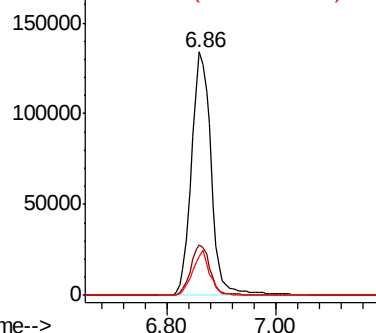
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005487.D
 Acq: 22 Oct 2018 22:47

Instrument :
 MSVOA_X
 ClientSampleId :
 CNL01

Tot Ion:114 Resp: 337617
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 39.0
 88 16.1 0.0 30.4

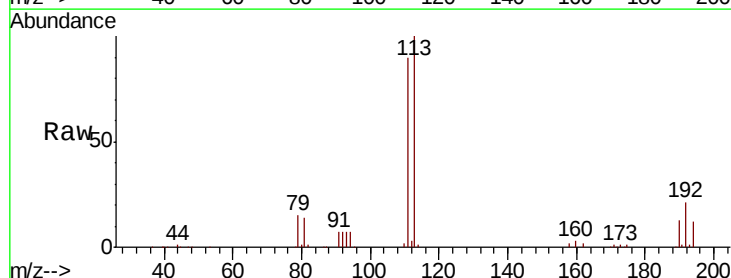


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

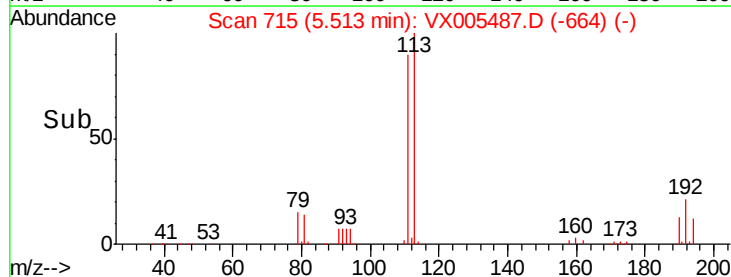
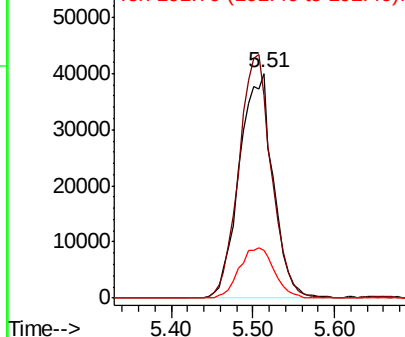


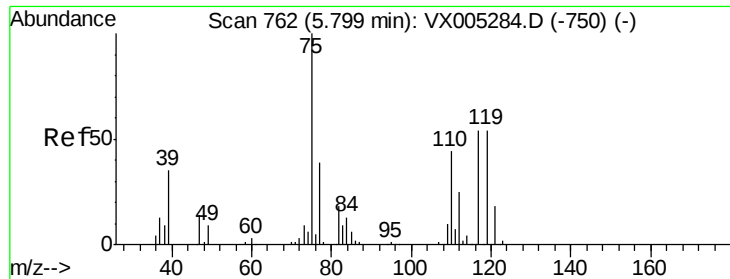
#35
 Dibromofluoromethane
 Concen: 51.477 ug/l
 RT: 5.51 min Scan# 715
 Delta R.T. 0.01 min
 Lab File: VX005487.D
 Acq: 22 Oct 2018 22:47

Tgt Ion:113 Resp: 115109
 Ion Ratio Lower Upper
 113 100
 111 104.8 82.4 123.6
 192 23.2 19.4 29.2



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: 5.247 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

CNL01

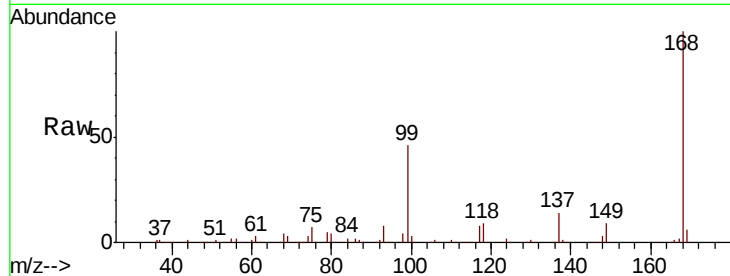
Tot Ion: 75 Resp: 17156

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

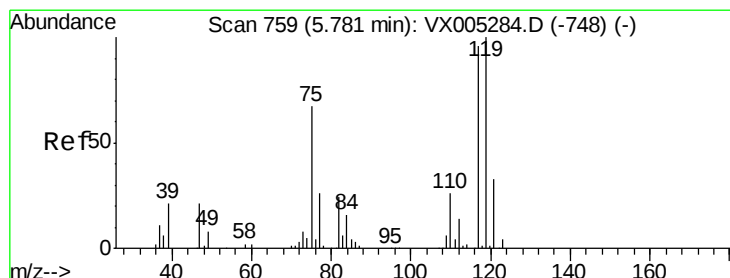
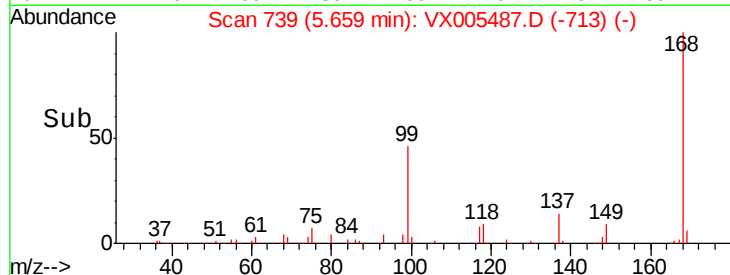
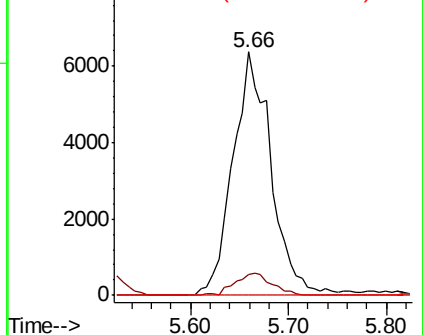
77 0.0 24.6 36.8#



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



#38

Carbon Tetrachloride

Concen: 6.646 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

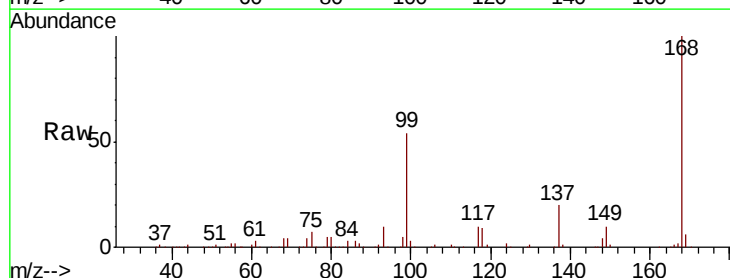
Tgt Ion: 117 Resp: 21835

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

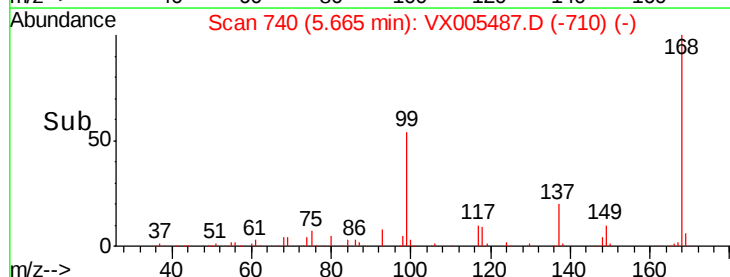
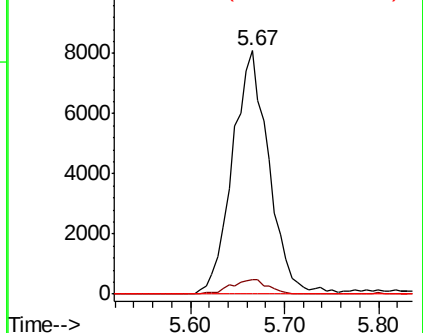
121 0.0 24.9 37.3#

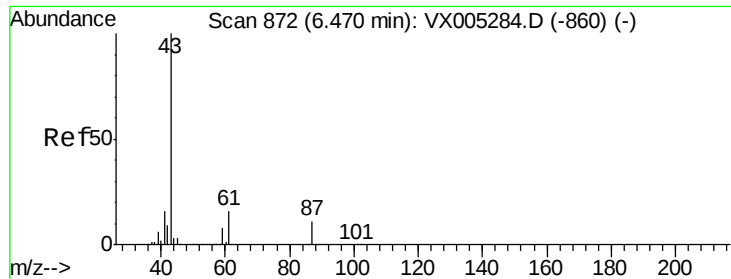


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.176 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.01 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

CNL01

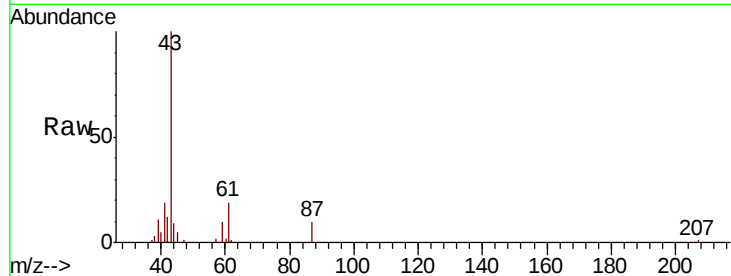
Tot Ion: 43 Resp: 12187

Ion Ratio Lower Upper

43 100

61 21.5 17.0 25.4

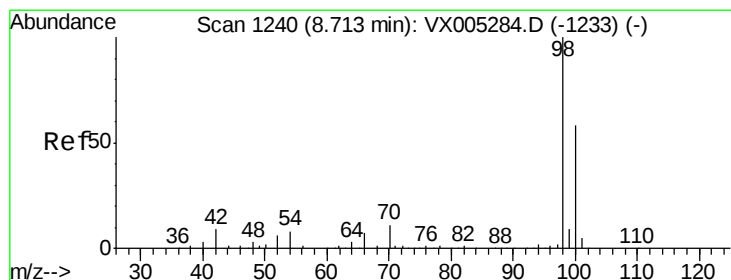
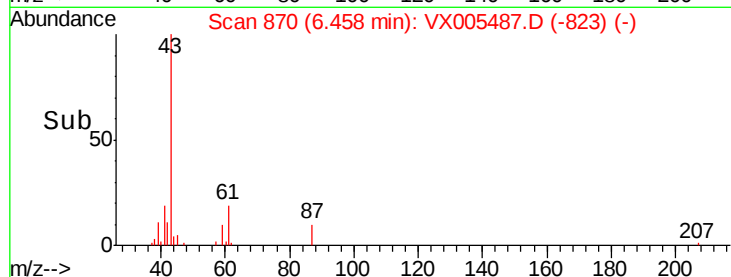
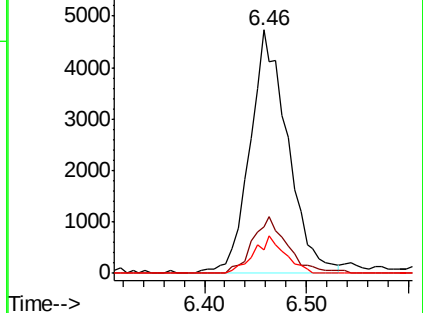
87 12.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 51.724 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005487.D

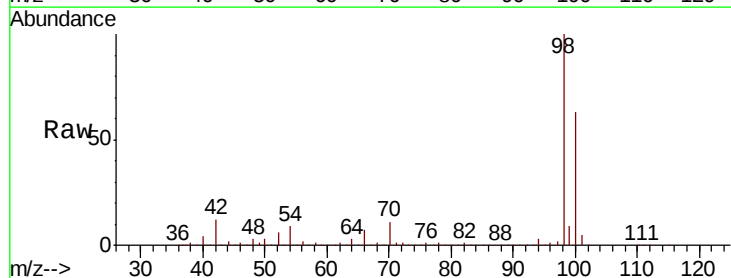
Acq: 22 Oct 2018 22:47

Tgt Ion: 98 Resp: 397073

Ion Ratio Lower Upper

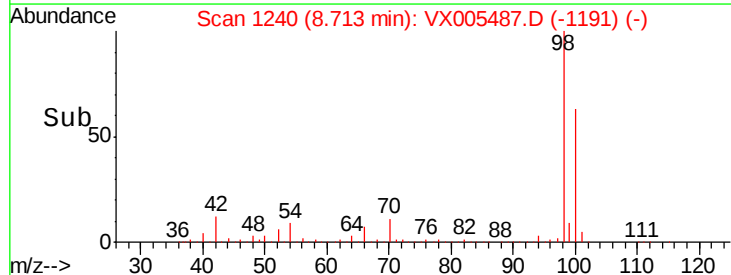
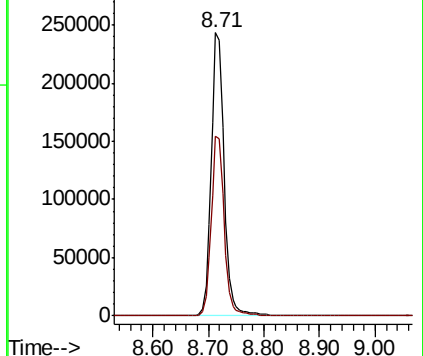
98 100

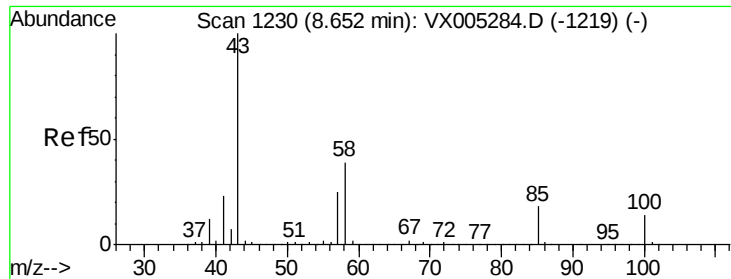
100 63.4 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.235 ug/l

RT: 8.65 min Scan# 1229

Delta R.T. -0.01 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampled :

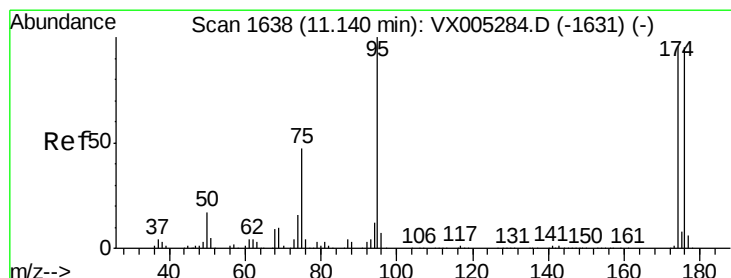
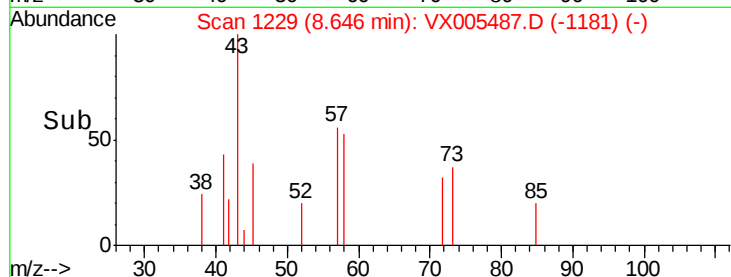
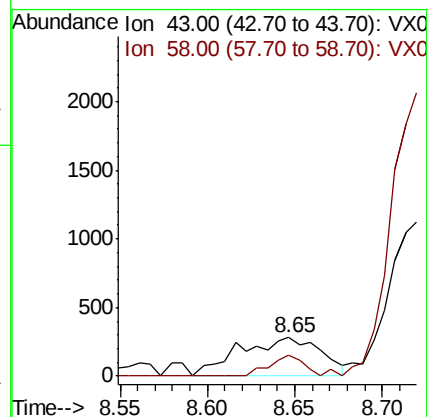
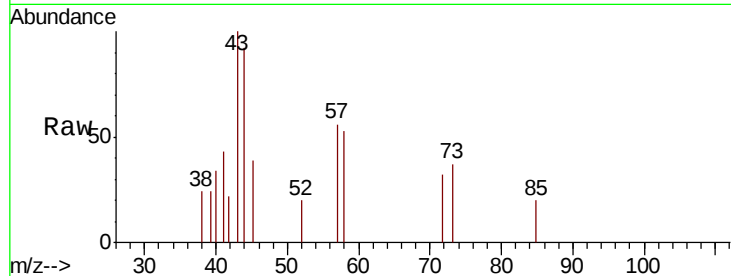
CNL01

Tot Ion: 43 Resp: 913

Ion Ratio Lower Upper

43 100

58 22.2 33.1 49.7#



#62

4-Bromofluorobenzene

Concen: 45.739 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

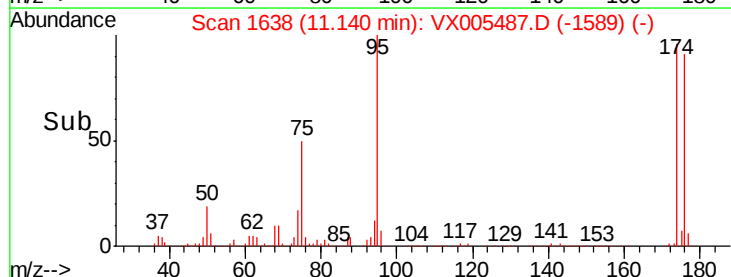
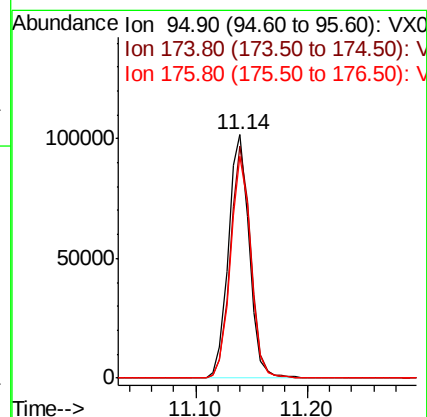
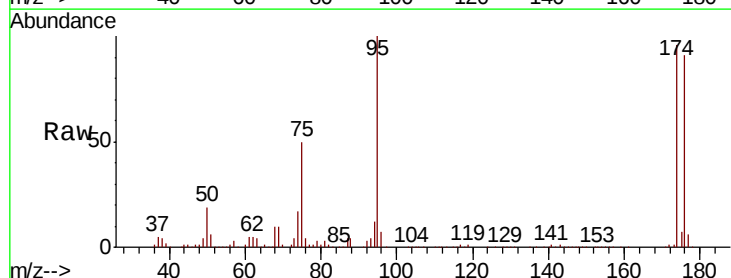
Tgt Ion: 95 Resp: 131905

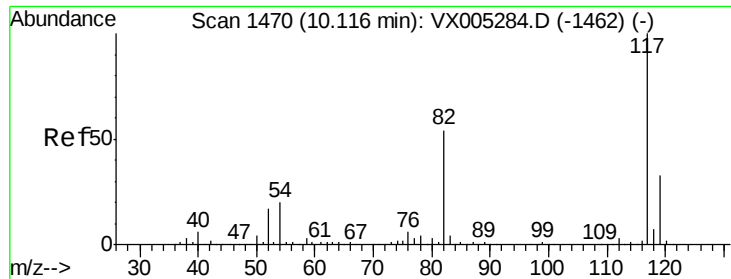
Ion Ratio Lower Upper

95 100

174 93.6 0.0 185.2

176 89.4 0.0 178.6

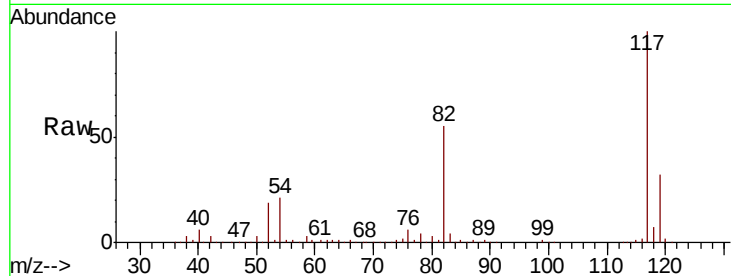




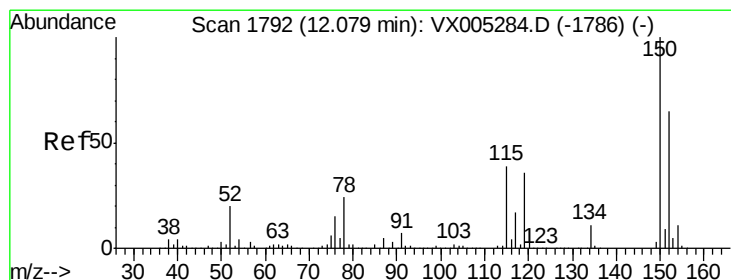
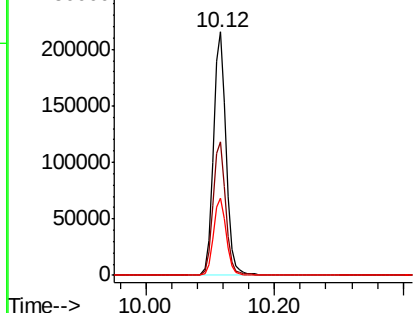
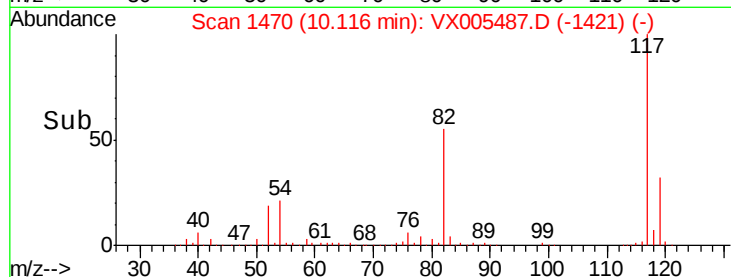
#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.12 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VX005487.D
 Acq: 22 Oct 2018 22:47

Instrument :
 MSVOA_X
 ClientSampled :
 CNL01

Tot Ion:117 Resp: 298038
 Ion Ratio Lower Upper
 117 100
 82 55.1 47.8 71.6
 119 31.9 29.3 43.9

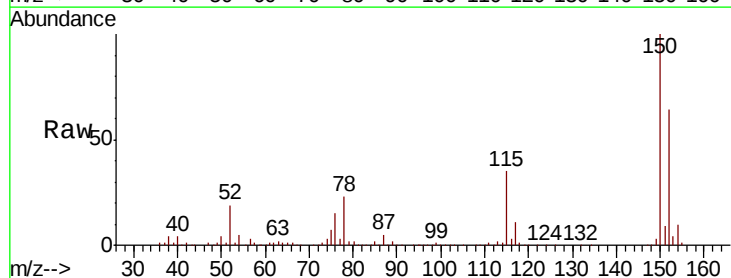


Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VX0
 Ion 118.90 (118.60 to 119.60): V

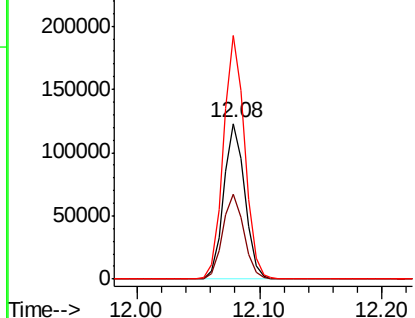
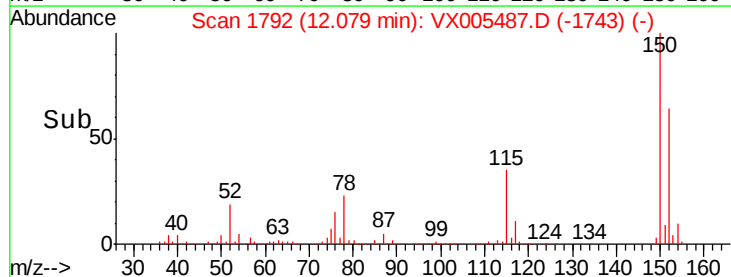


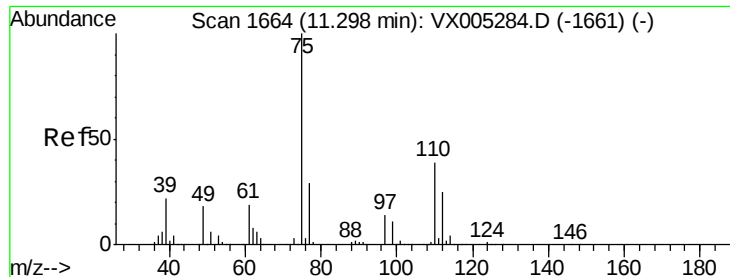
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX005487.D
 Acq: 22 Oct 2018 22:47

Tgt Ion:152 Resp: 146863
 Ion Ratio Lower Upper
 152 100
 115 55.2 39.0 117.0
 150 157.2 0.0 351.0



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: 23.659 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

Instrument :

MSVOA_X

ClientSampleId :

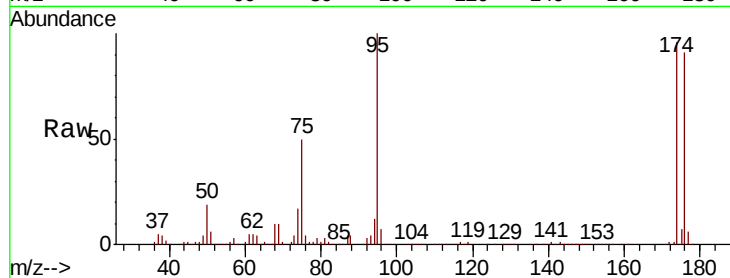
CNL01

Tot Ion: 75 Resp: 67398

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

60000

50000

40000

30000

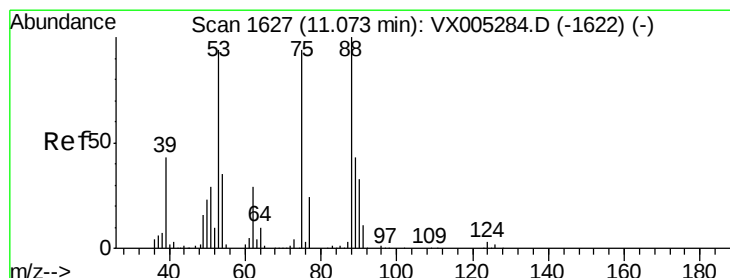
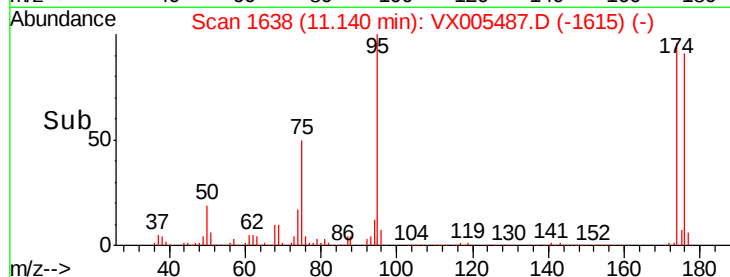
20000

10000

0

11.10 11.20

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 71.887 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005487.D

Acq: 22 Oct 2018 22:47

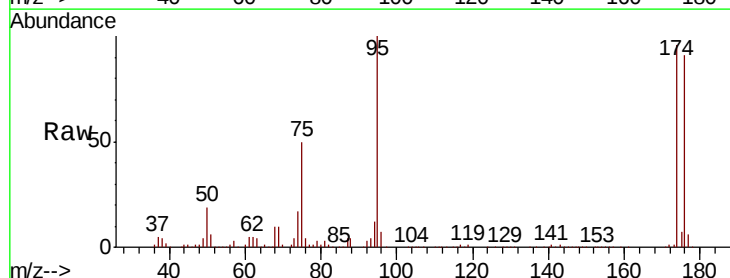
Tgt Ion: 75 Resp: 67398

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

60000

50000

40000

30000

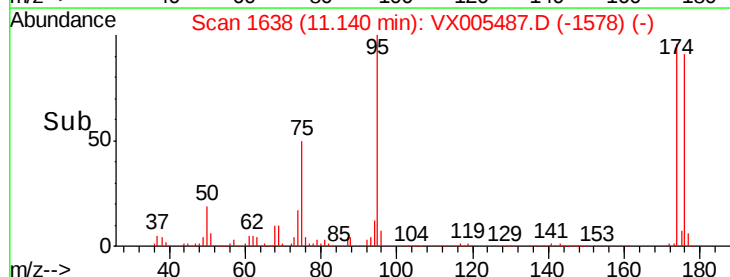
20000

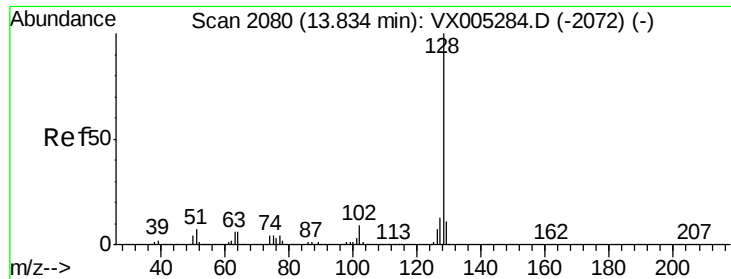
10000

0

11.10 11.20

Time-->

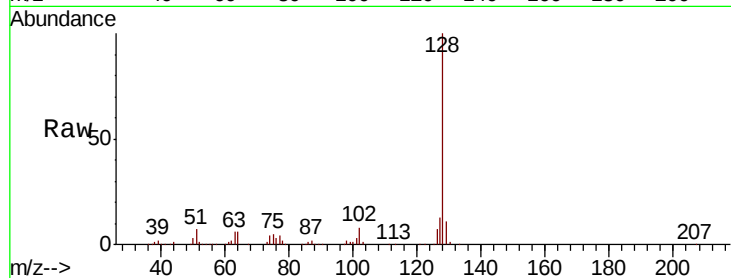




#95
Naphthalene
Concen: 5.058 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005487.D
Acq: 22 Oct 2018 22:47

Instrument :
MSVOA_X
ClientSampleId :
CNL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.2
129	11.4	8.6	12.8



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

