

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032818\
 Data File : VX000489.D
 Acq On : 28 Mar 2018 15:26
 Operator : JC/MD
 Sample : J1754-20 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-E

Quant Time: Mar 29 04:10:24 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	95000	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	170260	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	163163	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	83615	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	70479	56.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.66%	
35) Dibromofluoromethane	5.52	113	53687	50.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.08%	
50) Toluene-d8	8.73	98	211669	47.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.28%	
62) 4-Bromofluorobenzene	11.15	95	71525	39.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.14%	

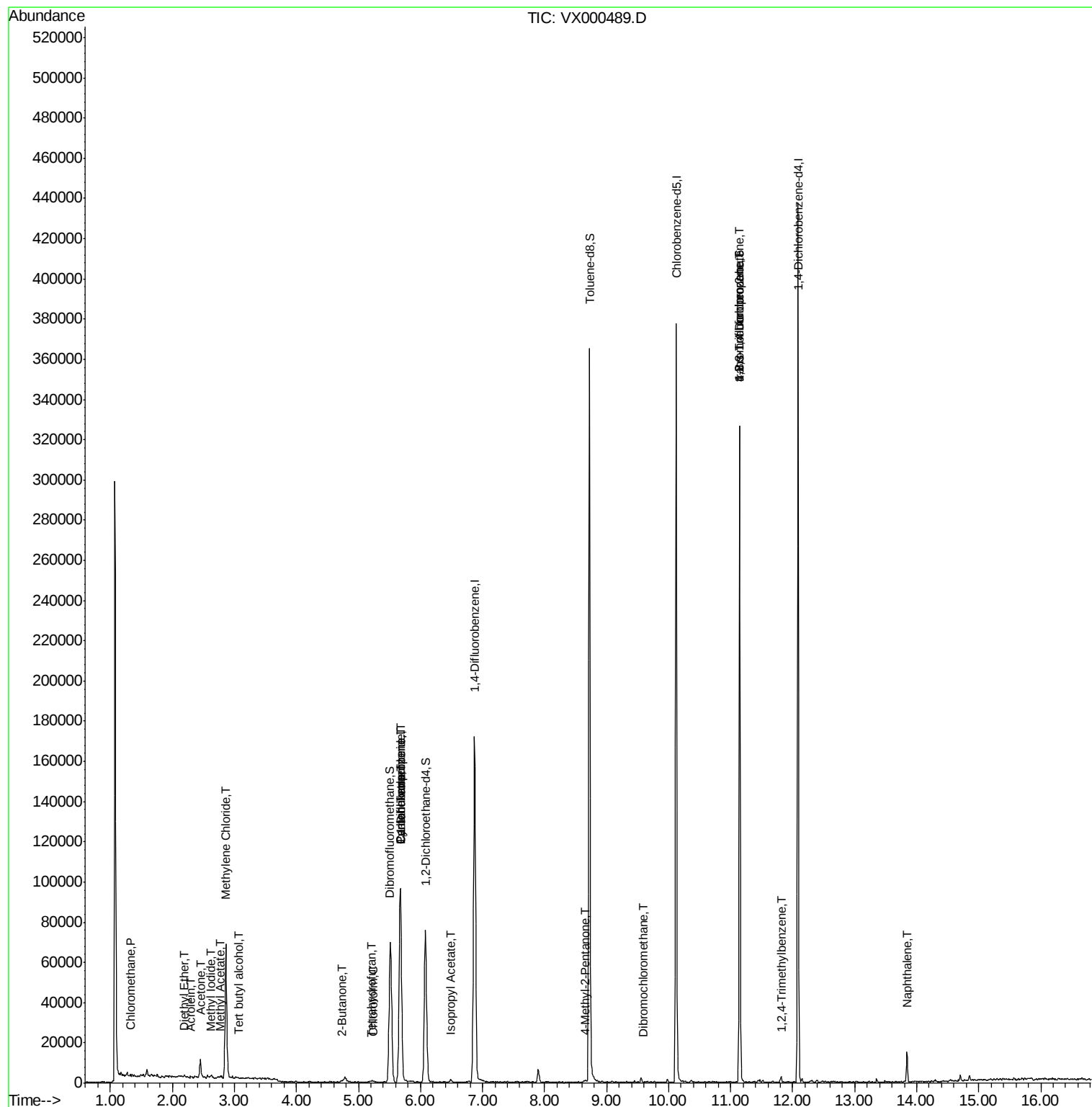
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	305	0.28	ug/l #	23
6) Chloroethane	1.72	64	249	Below Cal	#	44
8) Diethyl Ether	2.19	74	190	0.25	ug/l #	47
10) Methyl Iodide	2.61	142	31	4.30	ug/l #	37
11) Tert butyl alcohol	3.08	59	104	0.24	ug/l #	72
13) Acrolein	2.30	56	33	14.81	ug/l #	1
16) Acetone	2.45	43	9600	9.31	ug/l	96
18) Methyl Acetate	2.78	43	502	0.23	ug/l #	51
20) Methylene Chloride	2.86	84	28814	24.18	ug/l	91
25) 2-Butanone	4.73	43	1385	1.19	ug/l	92
29) Tetrahydrofuran	5.20	42	315	0.44	ug/l #	52
30) Chloroform	5.23	83	729	0.38	ug/l	86
31) Cyclohexane	5.67	56	2396	1.53	ug/l #	37
36) 1,1-Dichloropropene	5.67	75	7312	4.58	ug/l #	52
38) Carbon Tetrachloride	5.68	117	9141	5.46	ug/l #	16
43) Isopropyl Acetate	6.49	43	1305	0.40	ug/l #	80
51) 4-Methyl-2-Pentanone	8.66	43	639	0.25	ug/l	93
60) Dibromochloromethane	9.59	129	22	4.13	ug/l #	12
74) N-amyl acetate	6.49	43	1305	Below Cal	#	90
76) 1,2,3-Trichloropropane	11.15	75	42163	23.46	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	42163	75.96	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	1400	0.29	ug/l	94
95) Naphthalene	13.84	128	8299	1.21	ug/l	98

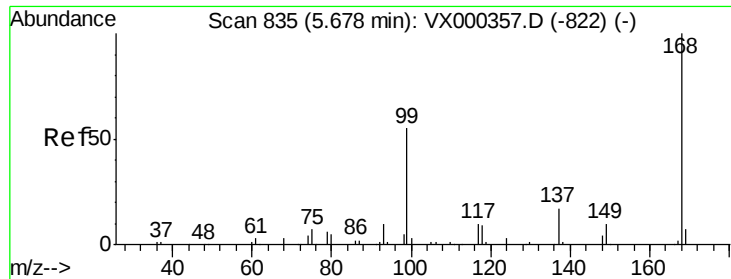
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 29 04:10:24 2018
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Quant Title : SW846 8260
QLast Update : Wed Mar 21 04:52:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

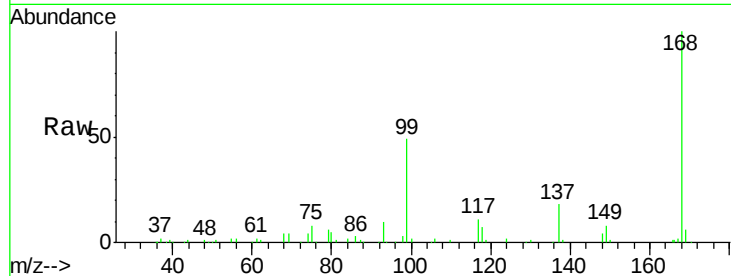
CL-02-032718-E

Tgt Ion:168 Resp: 95000

Ion Ratio Lower Upper

168 100

99 49.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

40000

30000

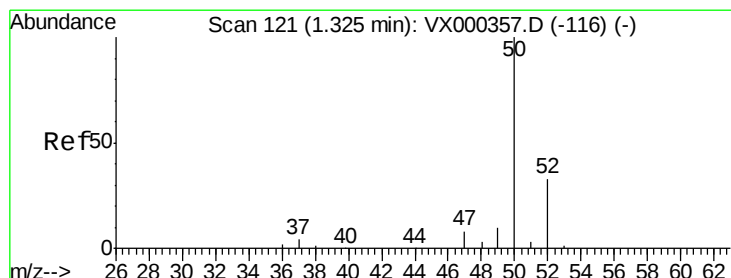
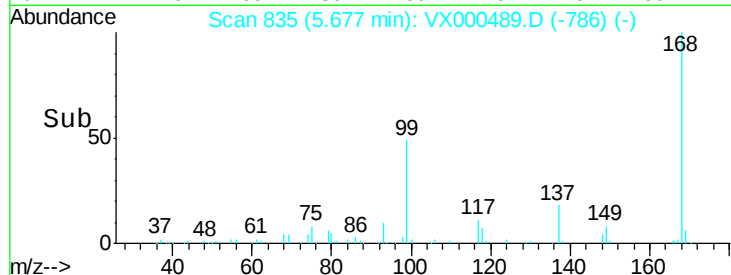
20000

10000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.28 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX000489.D

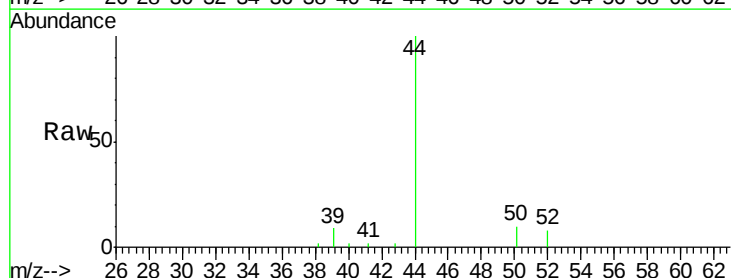
Acq: 28 Mar 2018 15:26

Tgt Ion: 50 Resp: 305

Ion Ratio Lower Upper

50 100

52 78.9 27.5 41.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

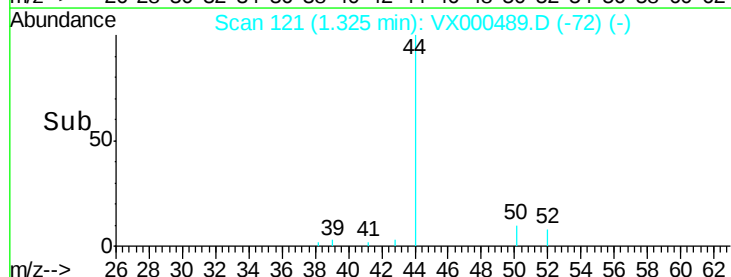
200

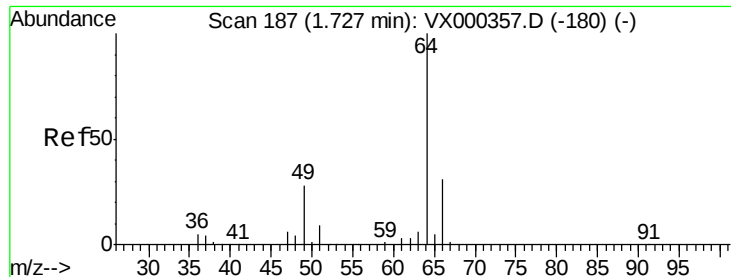
100

0

Time-->

1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

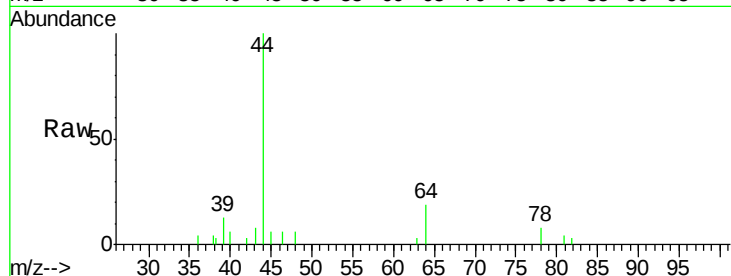
CL-02-032718-E

Tgt Ion: 64 Resp: 249

Ion Ratio Lower Upper

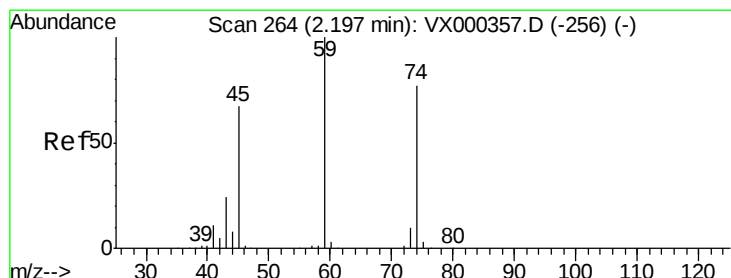
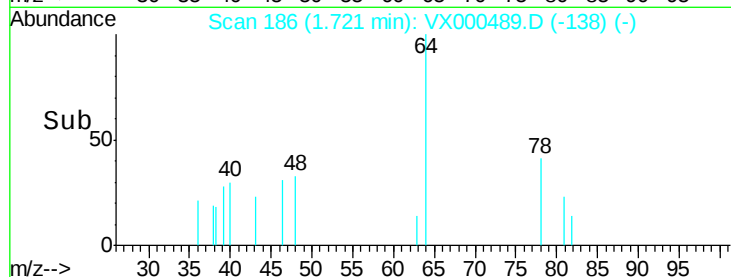
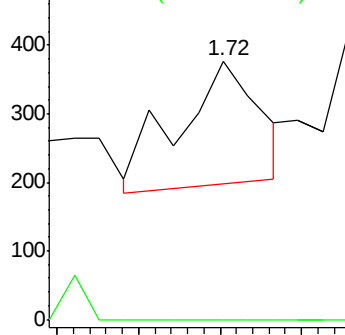
64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: 0.25 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX000489.D

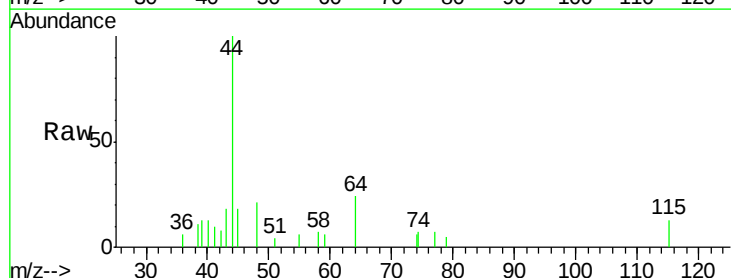
Acq: 28 Mar 2018 15:26

Tgt Ion: 74 Resp: 190

Ion Ratio Lower Upper

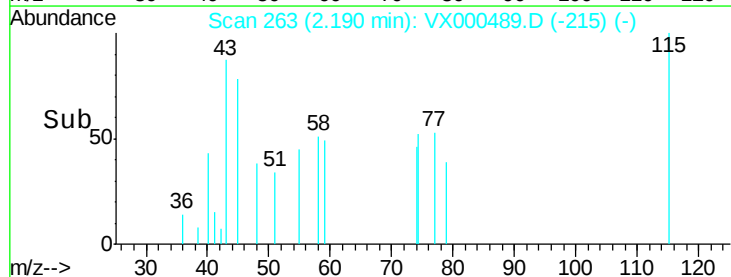
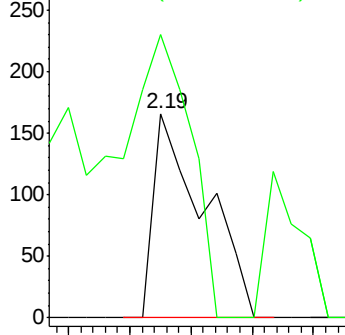
74 100

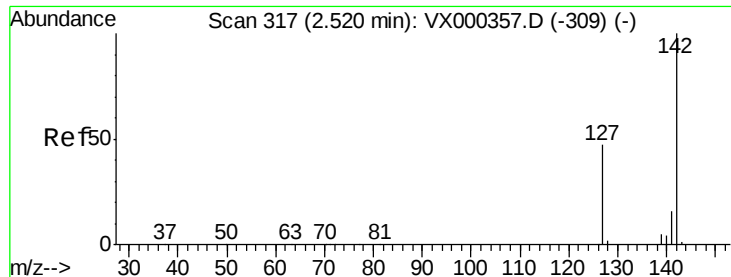
45 140.5 45.1 135.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

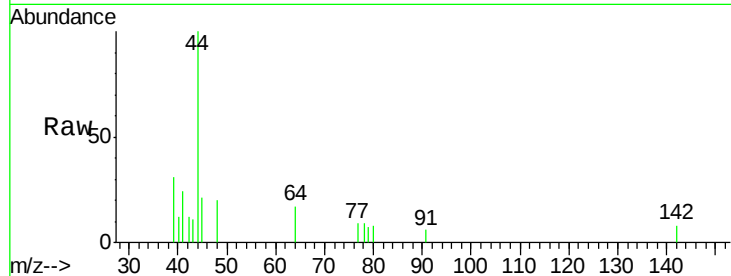




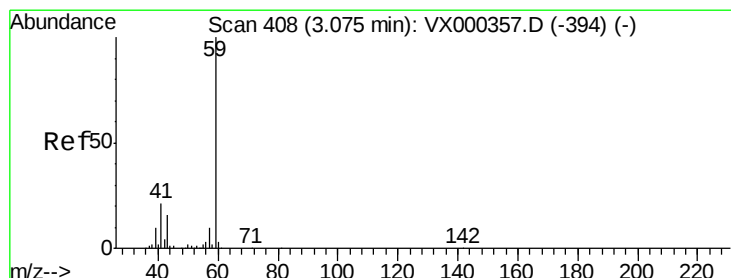
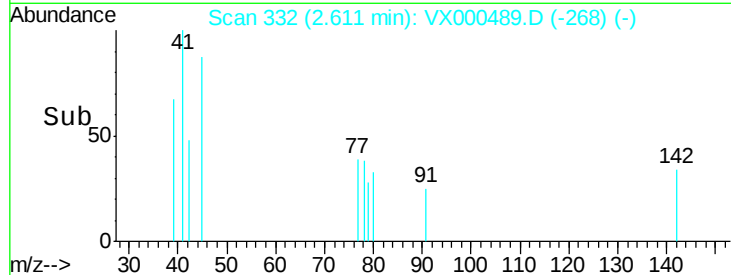
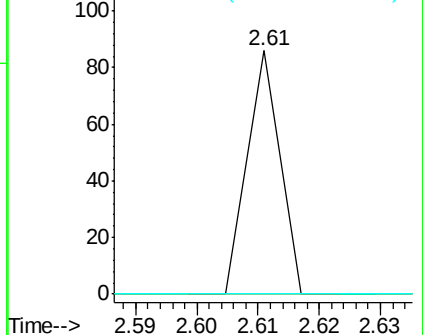
#10
Methyl Iodide
Concen: 4.30 ug/l
RT: 2.61 min Scan# 332
Delta R.T. 0.09 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

Instrument :
MSVOA_X
ClientSampleId :
CL-02-032718-E

Tgt Ion: 142 Resp: 31
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

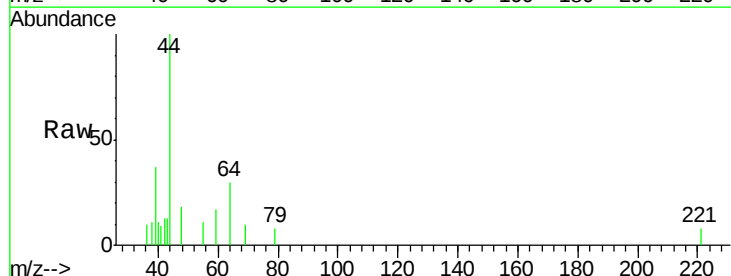


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

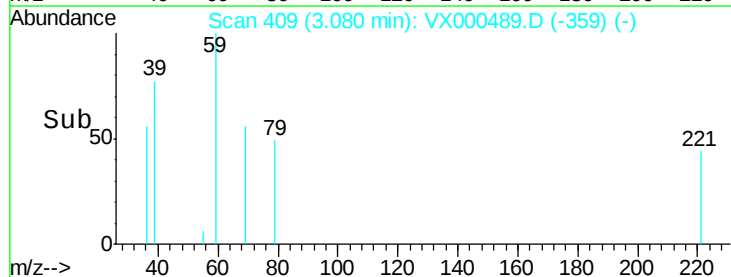
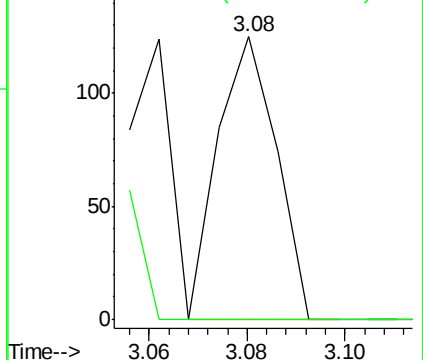


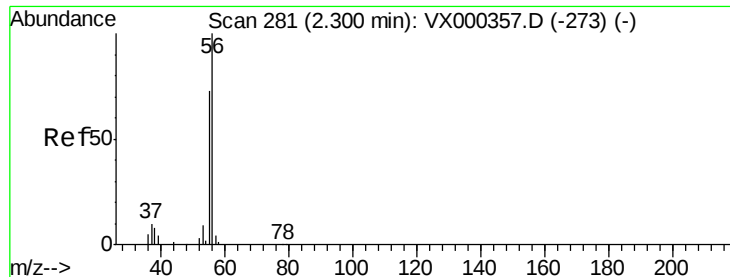
#11
Tert butyl alcohol
Concen: 0.24 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.01 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

Tgt Ion: 59 Resp: 104
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 14.81 ug/l

RT: 2.30 min Scan# 281

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

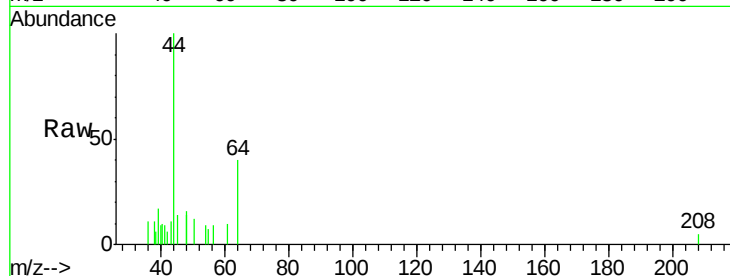
CL-02-032718-E

Tgt Ion: 56 Resp: 33

Ion Ratio Lower Upper

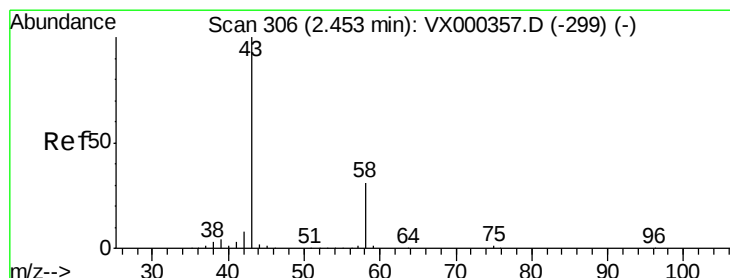
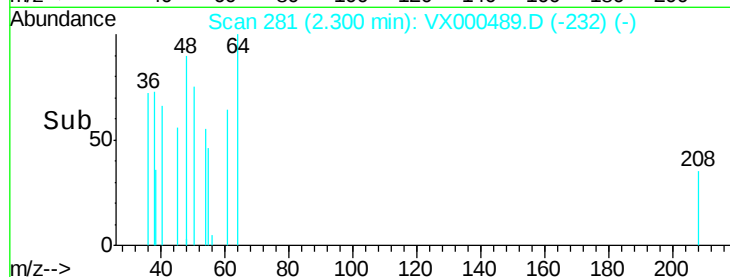
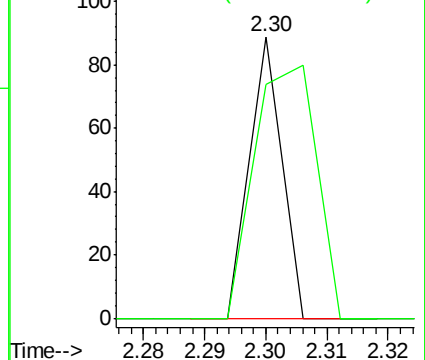
56 100

55 169.7 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 9.31 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000489.D

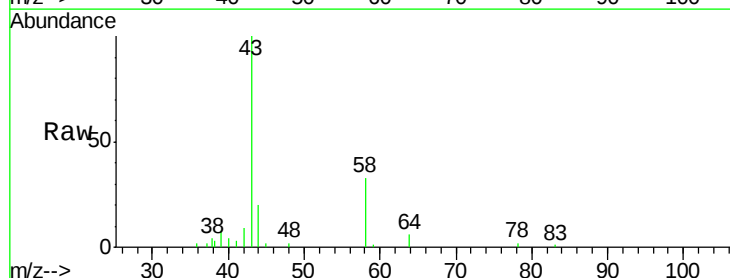
Acq: 28 Mar 2018 15:26

Tgt Ion: 43 Resp: 9600

Ion Ratio Lower Upper

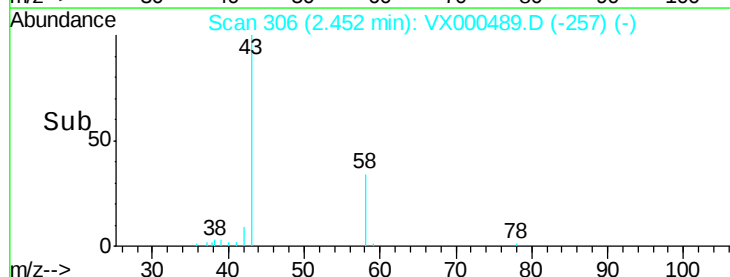
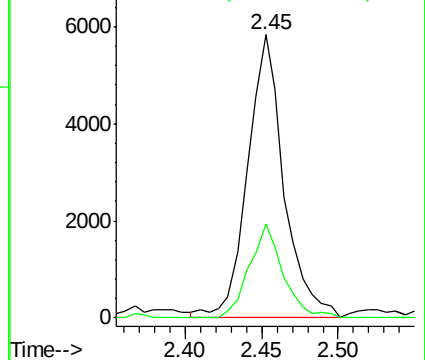
43 100

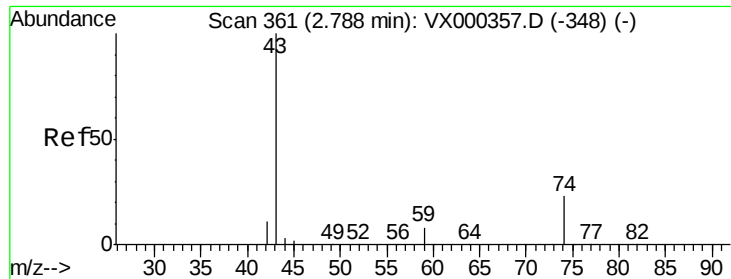
58 33.4 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

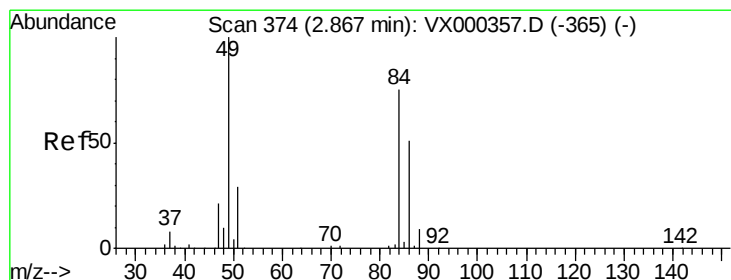
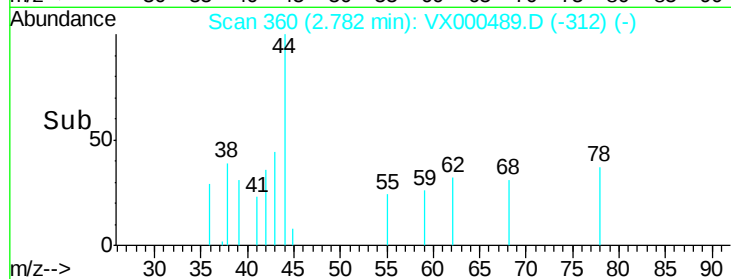
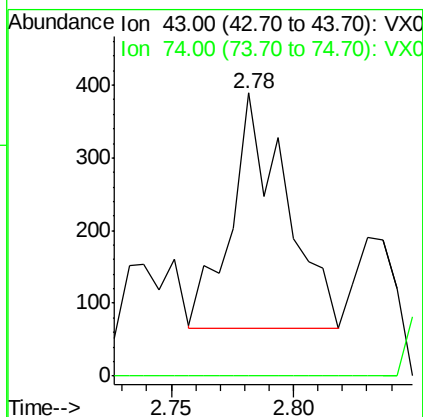
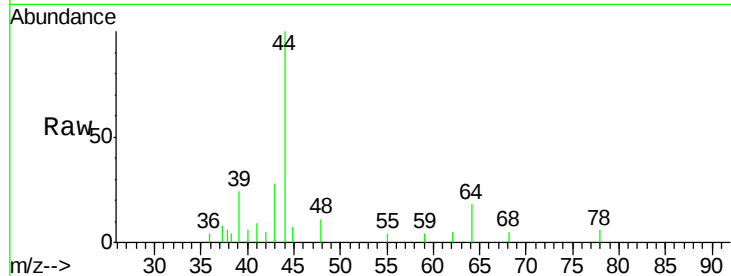




#18
Methyl Acetate
Concen: 0.23 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.01 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

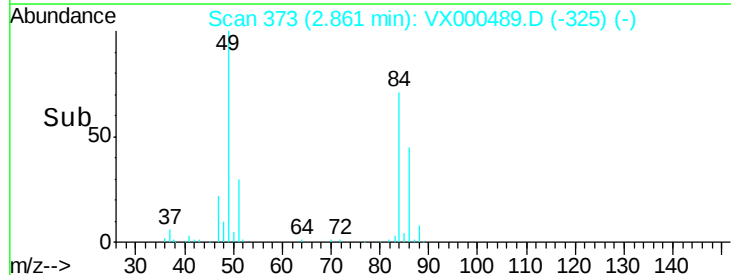
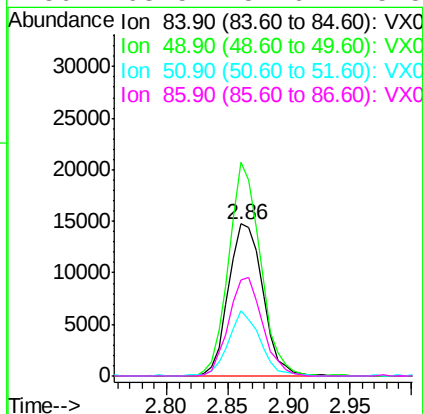
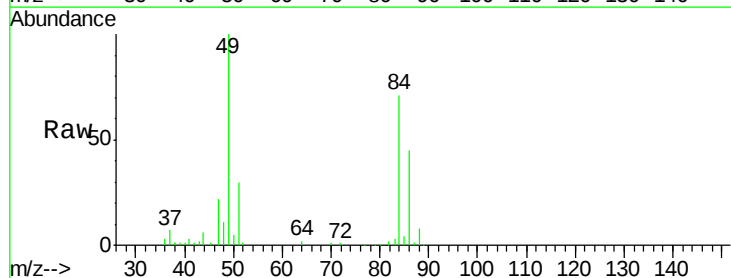
Instrument :
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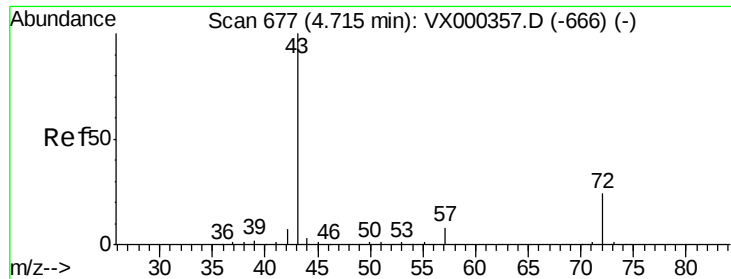
Tgt Ion: 43 Resp: 502
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#20
Methylene Chloride
Concen: 24.18 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.01 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

Tgt Ion: 84 Resp: 28814
Ion Ratio Lower Upper
84 100
49 140.6 100.6 151.0
51 42.8 31.6 47.4
86 63.5 52.6 78.8





#25

2-Butanone

Concen: 1.19 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

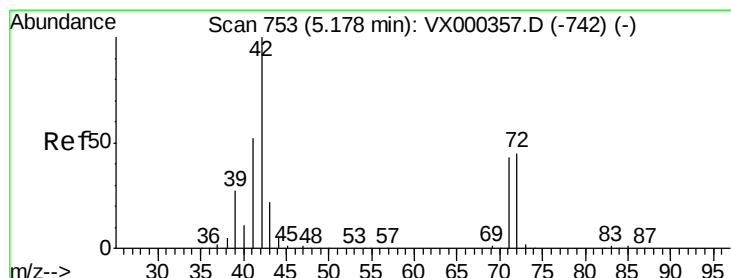
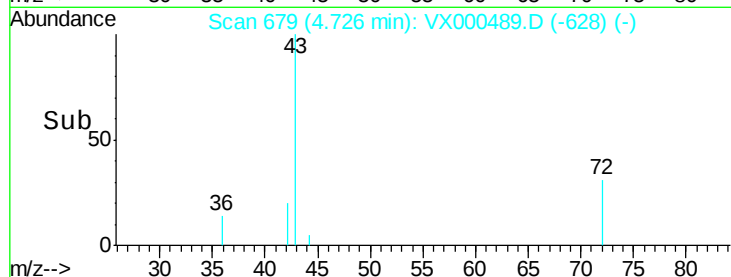
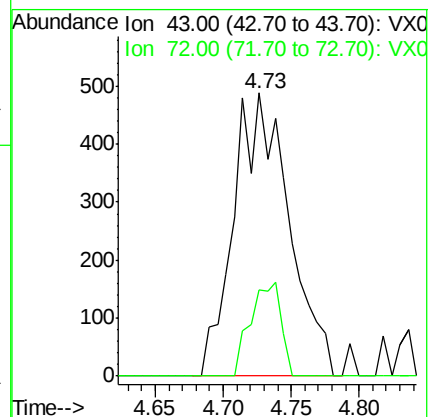
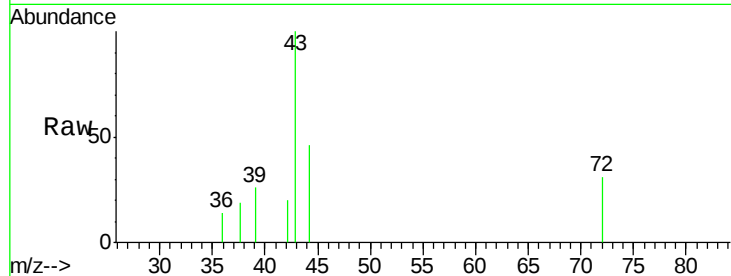
CL-02-032718-E

Tgt Ion: 43 Resp: 1385

Ion Ratio Lower Upper

43 100

72 30.5 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.44 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

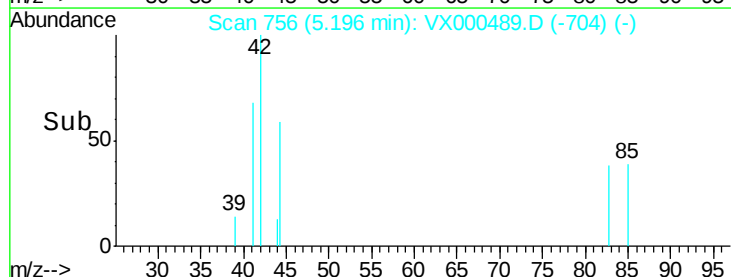
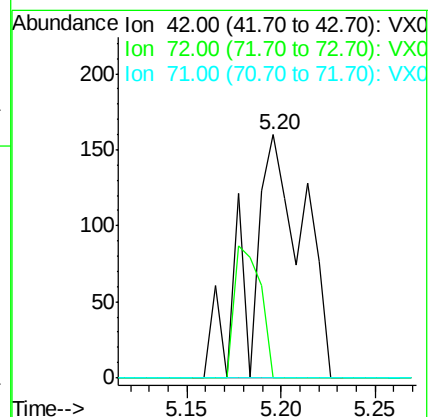
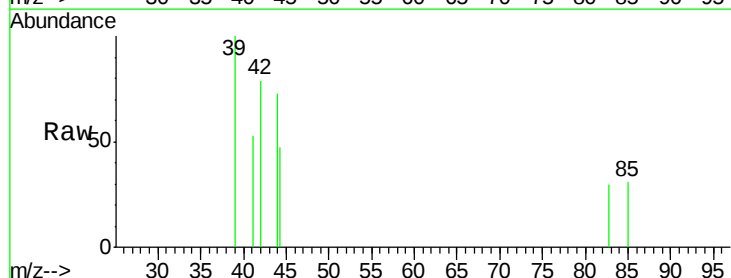
Tgt Ion: 42 Resp: 315

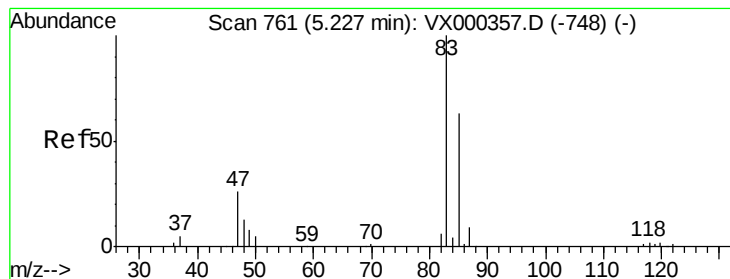
Ion Ratio Lower Upper

42 100

72 26.3 37.9 56.9#

71 0.0 34.4 51.6#





#30

Chloroform

Concen: 0.38 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.01 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

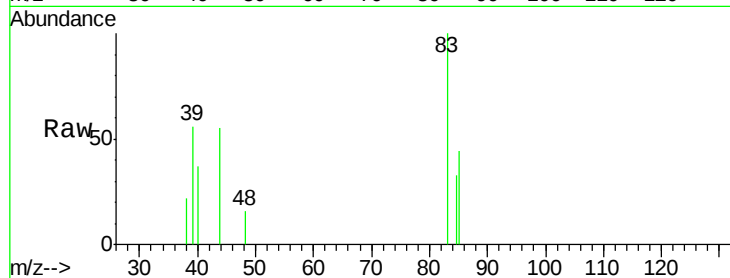
CL-02-032718-E

Tgt Ion: 83 Resp: 729

Ion Ratio Lower Upper

83 100

85 77.5 53.3 79.9



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.23

300

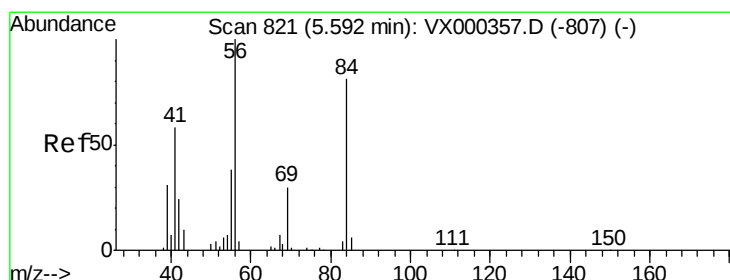
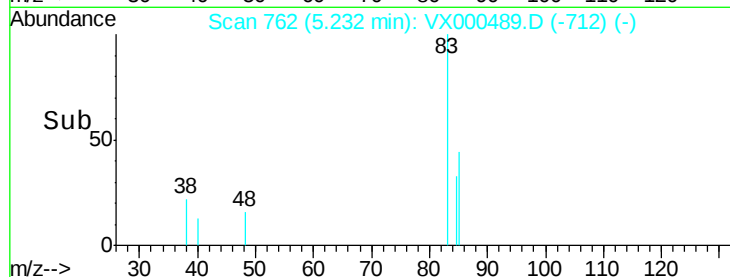
200

100

0

Time-->

5.15 5.20 5.25 5.30



#31

Cyclohexane

Concen: 1.53 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.08 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

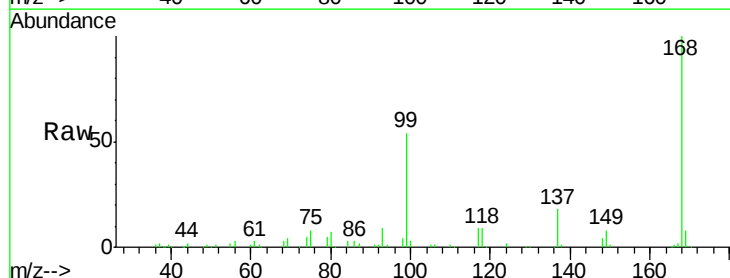
Tgt Ion: 56 Resp: 2396

Ion Ratio Lower Upper

56 100

69 128.4 23.4 35.0#

84 110.2 71.0 106.4#



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

1500

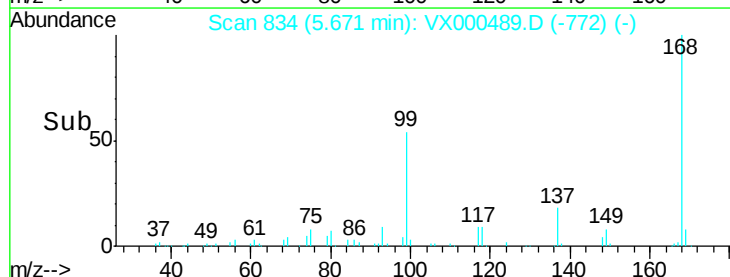
1000

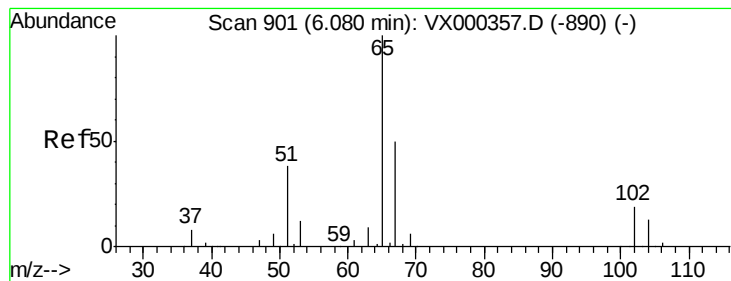
500

0

Time-->

5.60 5.65 5.70 5.75





#33

1,2-Dichloroethane-d4

Concen: 56.83 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

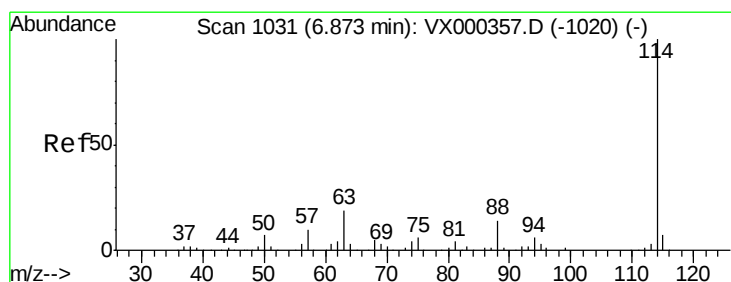
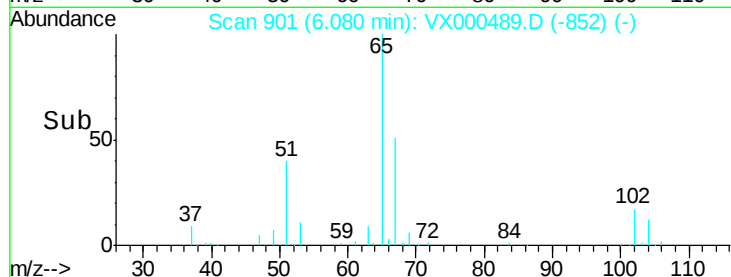
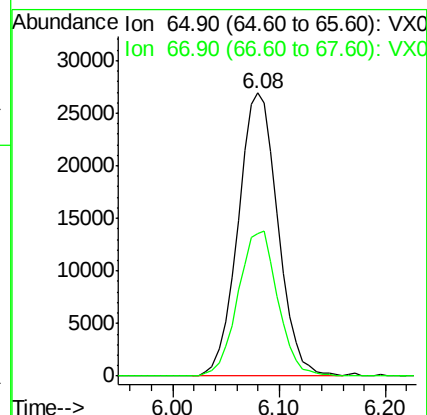
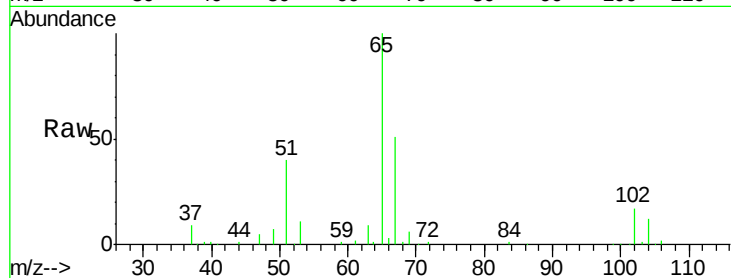
CL-02-032718-E

Tgt Ion: 65 Resp: 70479

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

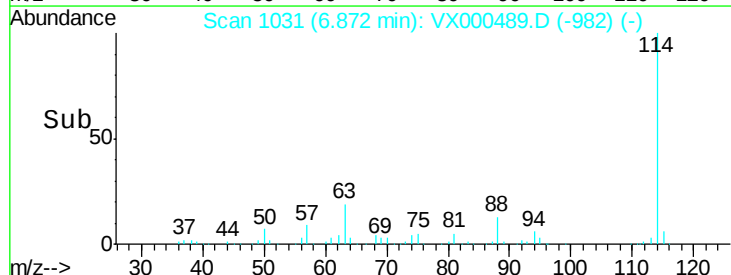
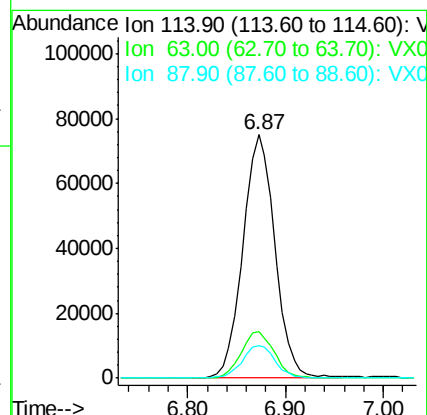
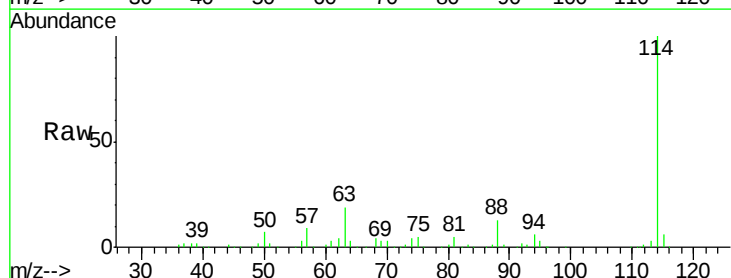
Tgt Ion: 114 Resp: 170260

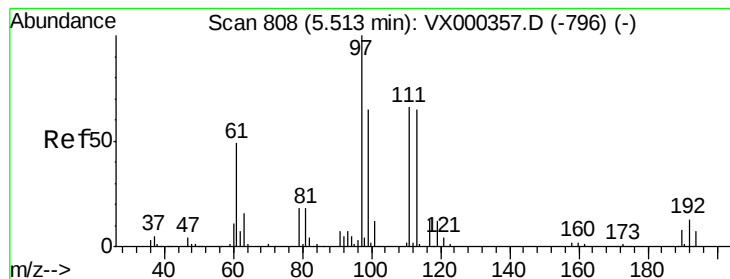
Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.4

88 13.5 0.0 27.0





#35

Dibromofluoromethane

Concen: 50.04 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-E

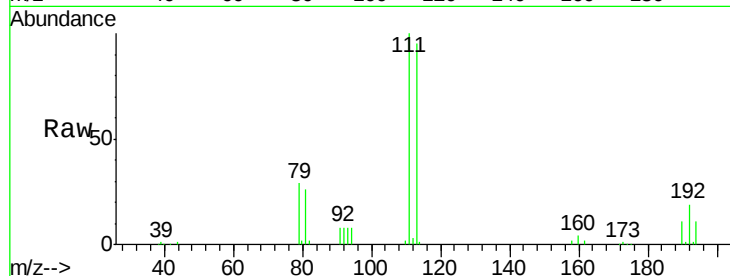
Tgt Ion:113 Resp: 53687

Ion Ratio Lower Upper

113 100

111 106.4 82.4 123.6

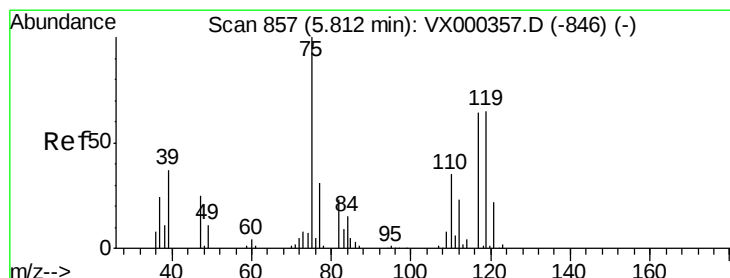
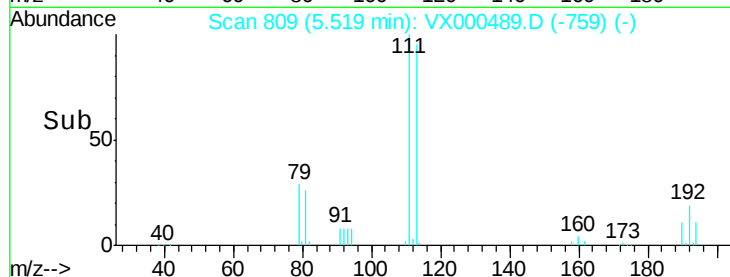
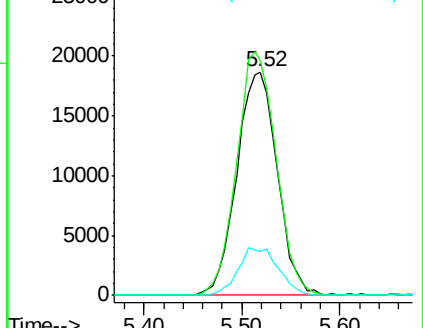
192 21.1 15.8 23.6



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: 4.58 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

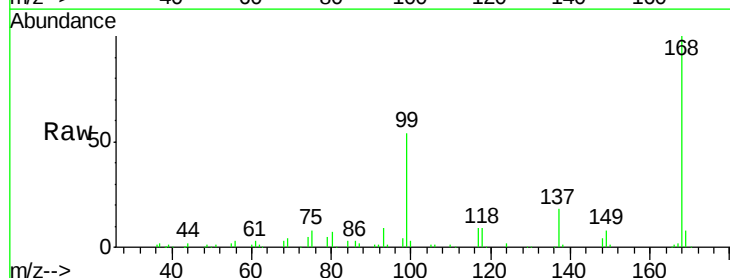
Tgt Ion: 75 Resp: 7312

Ion Ratio Lower Upper

75 100

110 11.4 17.9 53.7#

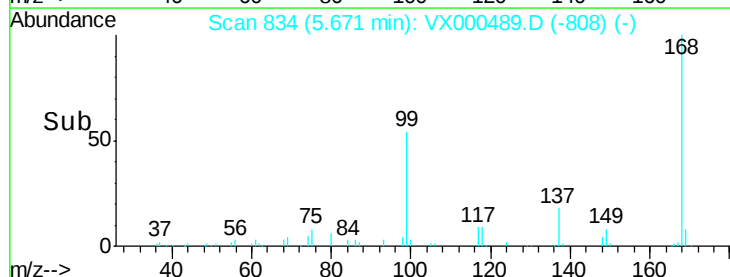
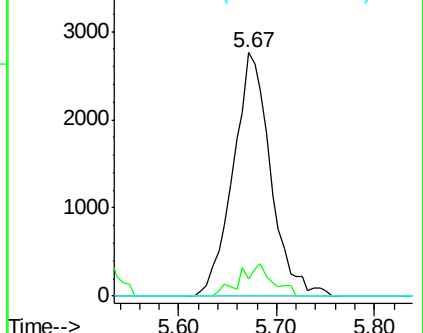
77 0.0 24.0 36.0#

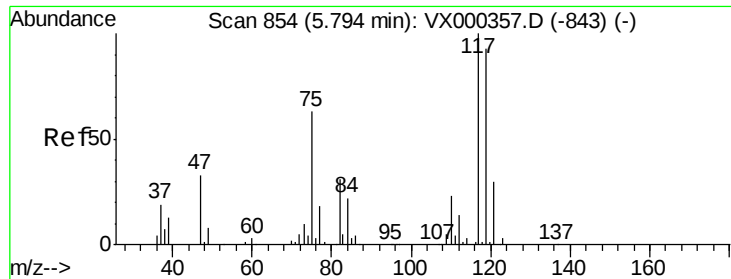


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.46 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-E

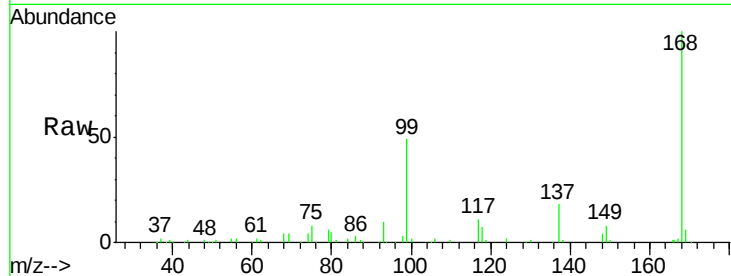
Tgt Ion:117 Resp: 9141

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.2#

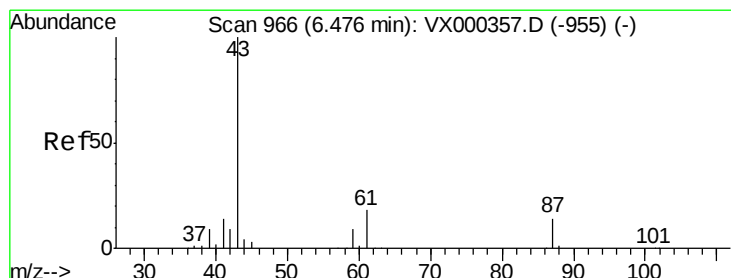
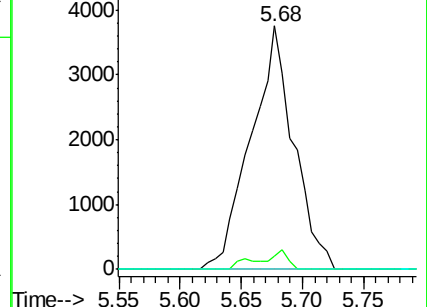
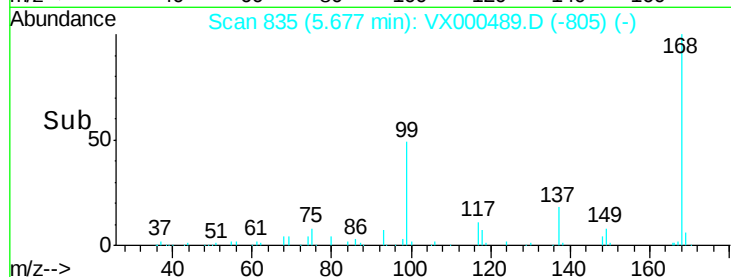
121 0.0 24.8 37.2#



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: 0.40 ug/l

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

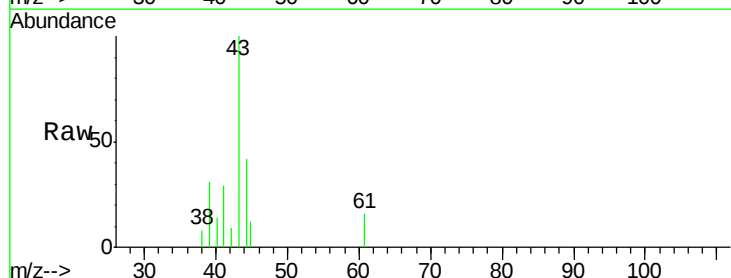
Tgt Ion: 43 Resp: 1305

Ion Ratio Lower Upper

43 100

61 13.8 14.4 21.6#

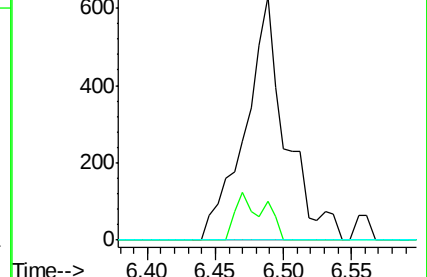
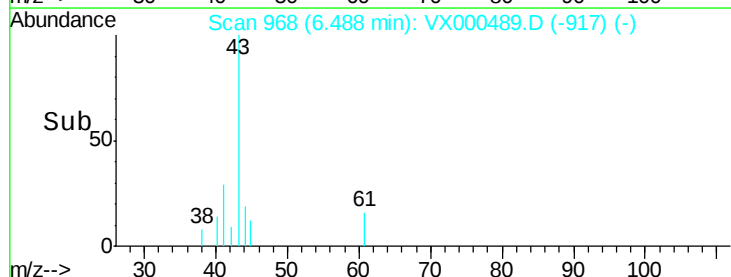
87 0.0 11.0 16.4#

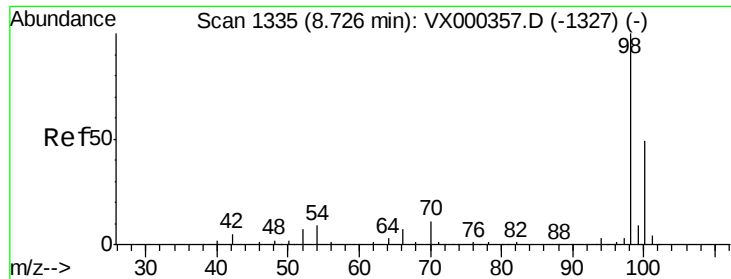


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#50

Toluene-d8

Concen: 47.64 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

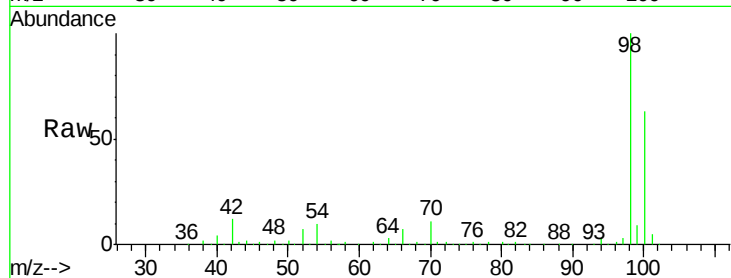
CL-02-032718-E

Tgt Ion: 98 Resp: 211669

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.73

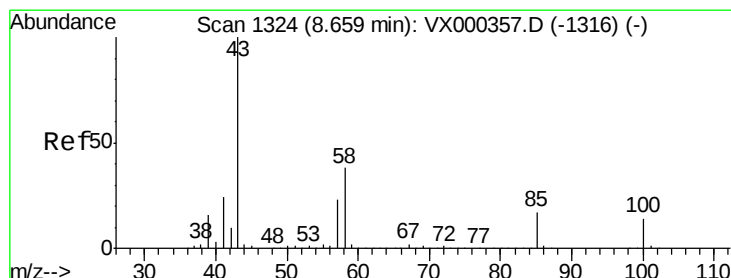
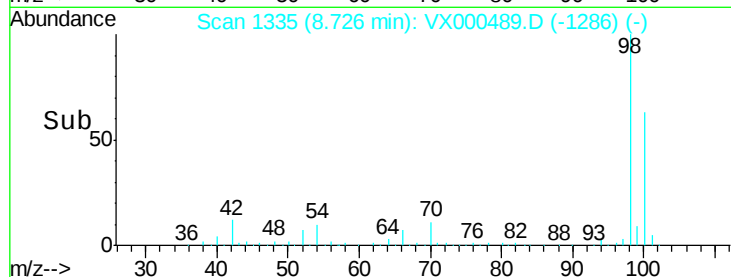
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 8.66 min Scan# 1325

Delta R.T. 0.01 min

Lab File: VX000489.D

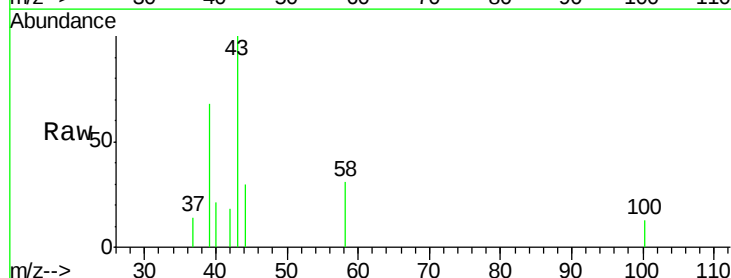
Acq: 28 Mar 2018 15:26

Tgt Ion: 43 Resp: 639

Ion Ratio Lower Upper

43 100

58 33.6 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1000

800

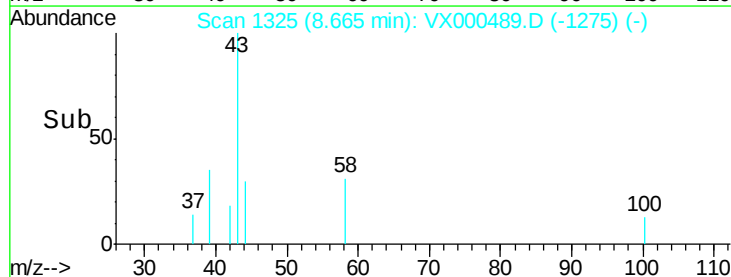
600

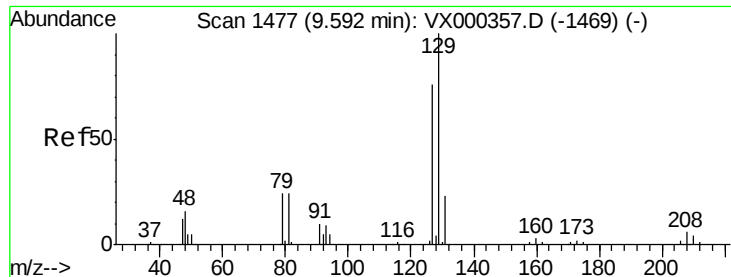
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 4.13 ug/l

RT: 9.59 min Scan# 1477

Delta R.T. 0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

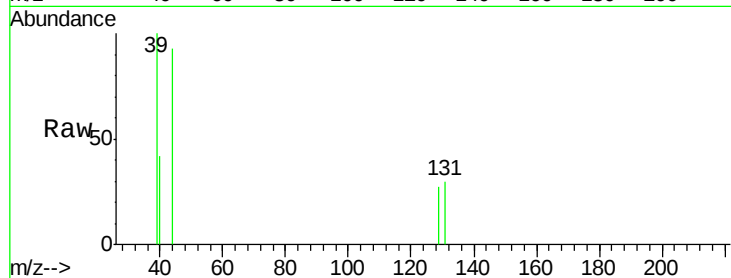
CL-02-032718-E

Tgt Ion:129 Resp: 22

Ion Ratio Lower Upper

129 100

127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59

60

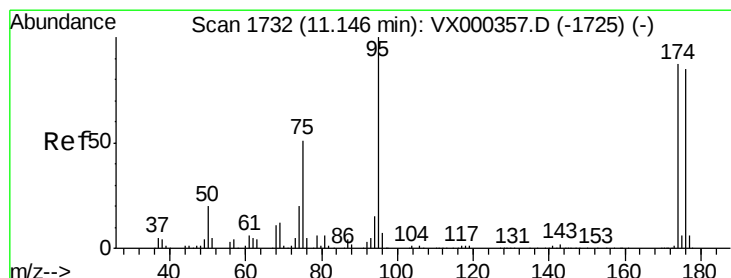
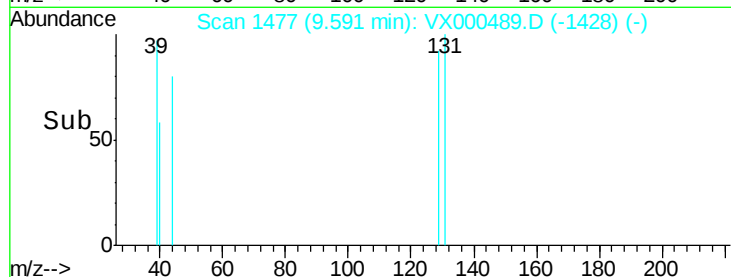
40

20

0

9.57 9.58 9.59 9.60 9.61

Time-->



#62

4-Bromofluorobenzene

Concen: 39.57 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

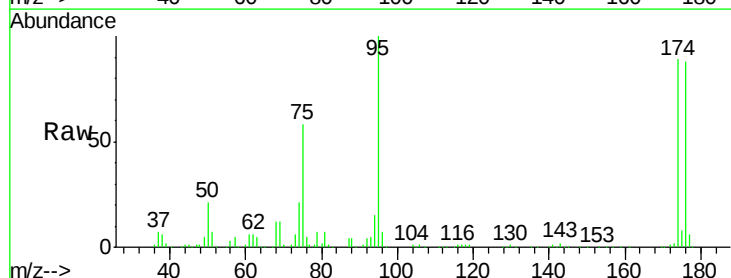
Tgt Ion: 95 Resp: 71525

Ion Ratio Lower Upper

95 100

174 91.2 0.0 173.6

176 88.6 0.0 164.6



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

80000

60000

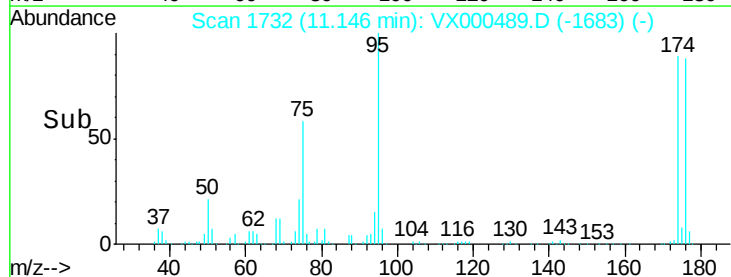
40000

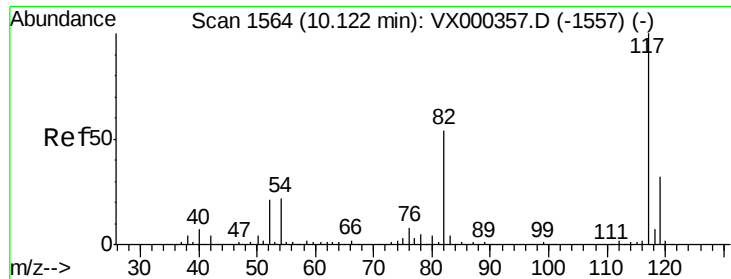
20000

0

11.10 11.15 11.20

Time-->

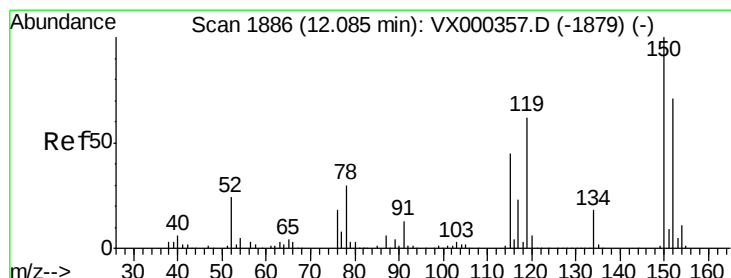
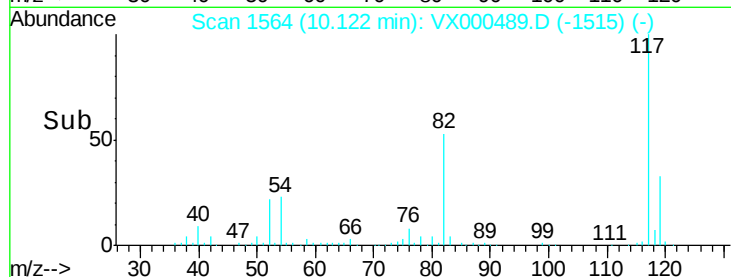
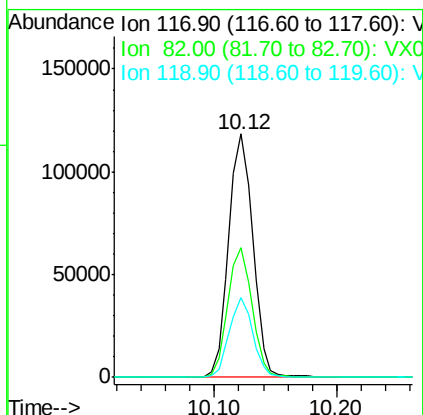
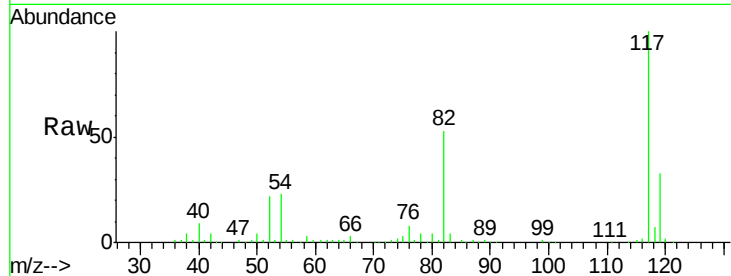




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

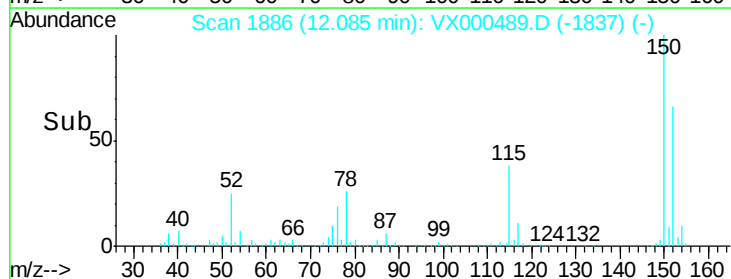
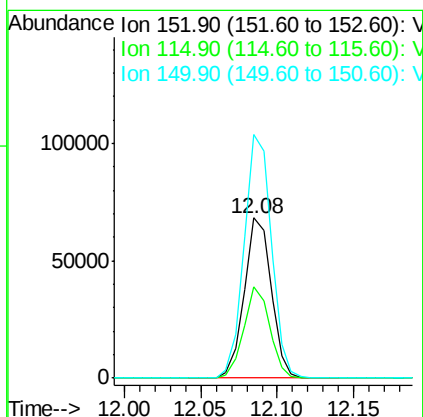
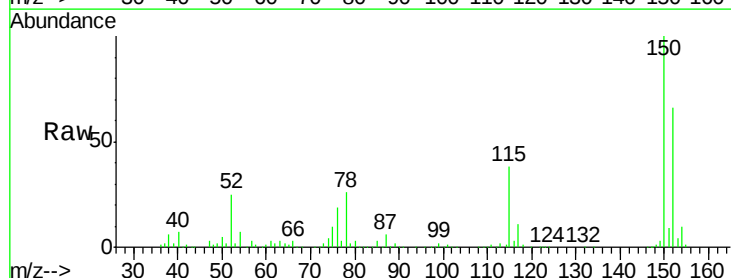
Instrument :
MSVOA_X
ClientSampleId :
CL-02-032718-E

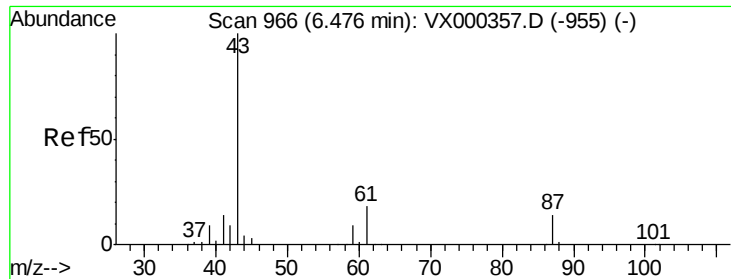
Tgt Ion:117 Resp: 163163
Ion Ratio Lower Upper
117 100
82 53.3 43.8 65.8
119 32.9 24.9 37.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000489.D
Acq: 28 Mar 2018 15:26

Tgt Ion:152 Resp: 83615
Ion Ratio Lower Upper
152 100
115 55.6 39.8 119.3
150 154.2 0.0 344.4





#74

N-amyI acetate

Concen: Below Cal

RT: 6.49 min Scan# 968

Delta R.T. 0.01 min

Lab File: VX000489.D

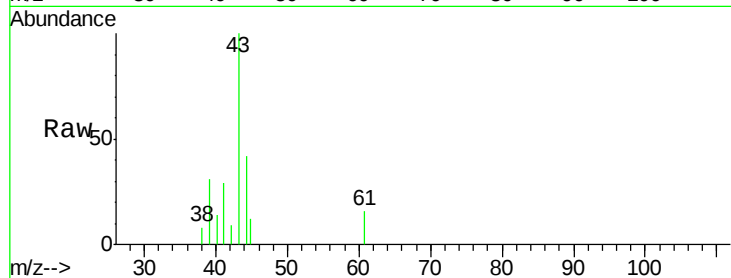
Acq: 28 Mar 2018 15:26

Instrument :

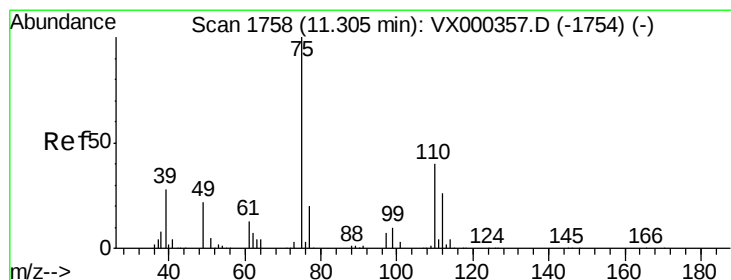
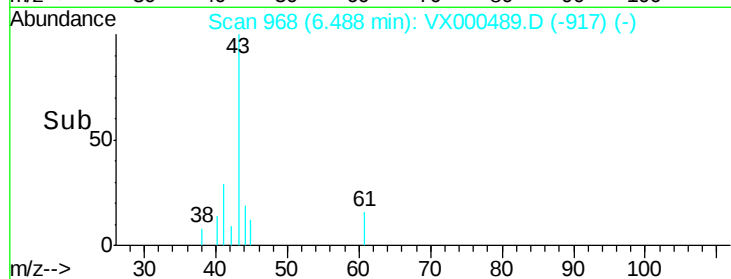
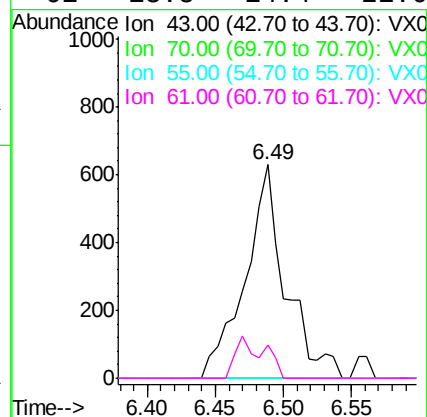
MSVOA_X

ClientSampleId :

CL-02-032718-E



Tgt Ion:	43	Resp:	1305
Ion	Ratio	Lower	Upper
43	100		
70	0.0	0.0	0.0
55	0.0	0.0	0.0
61	13.8	14.4	21.6#



#76

1,2,3-Trichloropropane

Concen: 23.46 ug/l

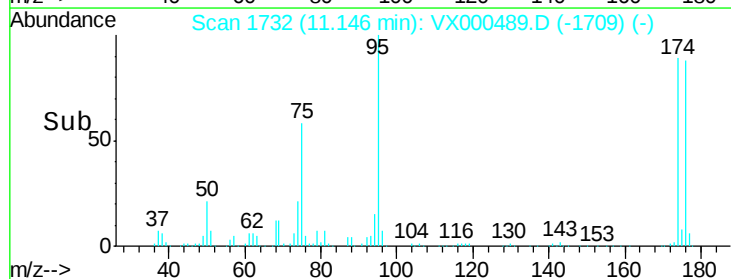
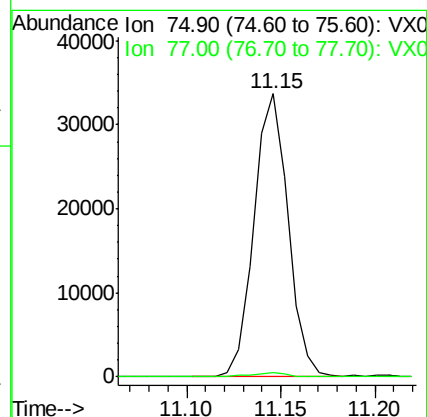
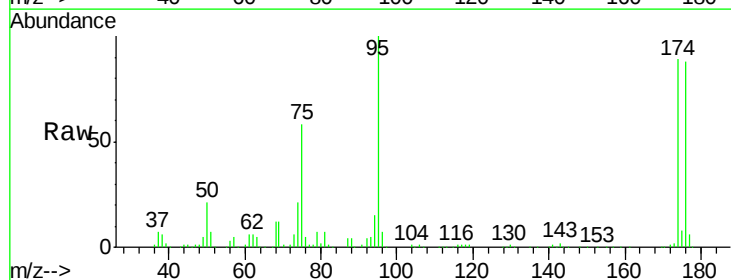
RT: 11.15 min Scan# 1732

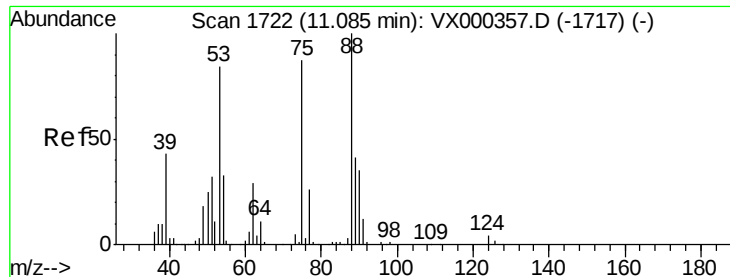
Delta R.T. -0.16 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Tgt Ion:	75	Resp:	42163
Ion	Ratio	Lower	Upper
75	100		
77	1.4	21.4	64.2#

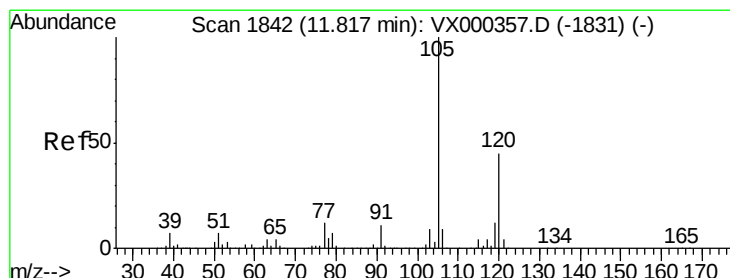
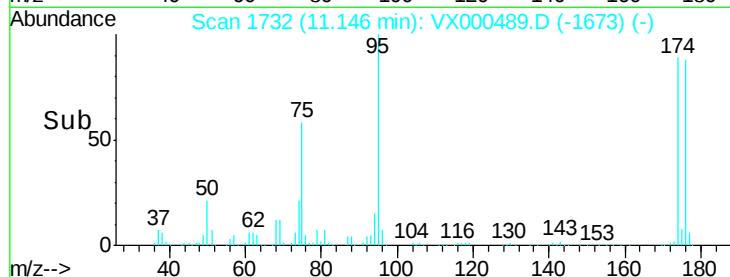
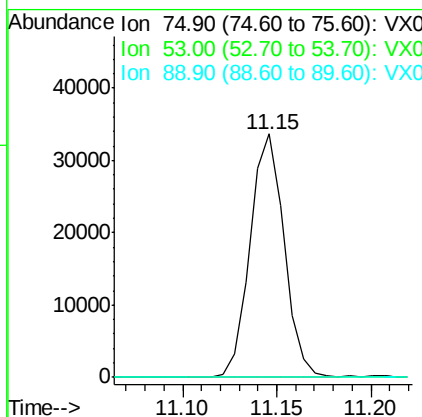
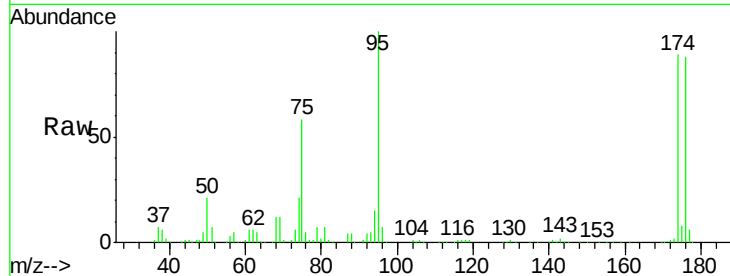




#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.96 ug/l
 RT: 11.15 min Scan# 1732
 Delta R.T. 0.06 min
 Lab File: VX000489.D
 Acq: 28 Mar 2018 15:26

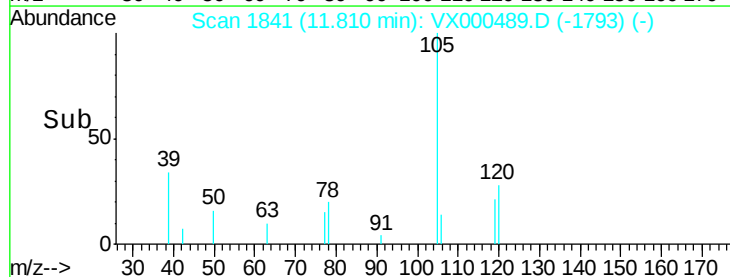
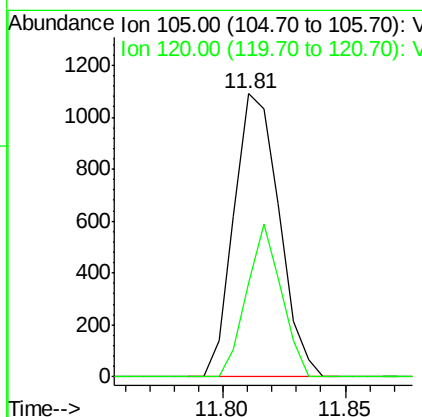
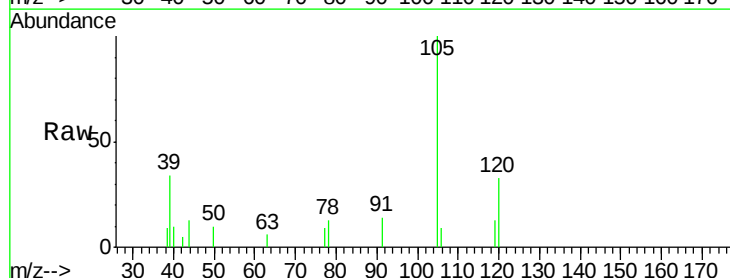
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-032718-E

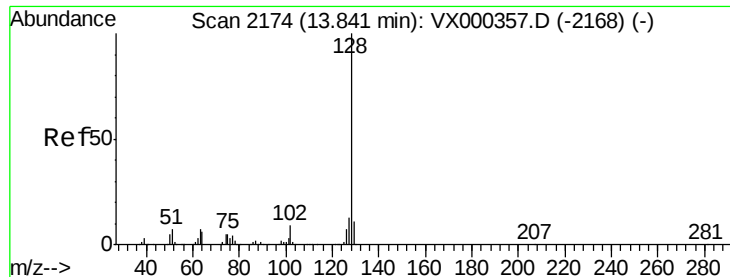
Tgt Ion: 75 Resp: 42163
 Ion Ratio Lower Upper
 75 100
 53 0.0 80.7 121.1#
 89 0.0 39.4 59.0#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.29 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: VX000489.D
 Acq: 28 Mar 2018 15:26

Tgt Ion: 105 Resp: 1400
 Ion Ratio Lower Upper
 105 100
 120 41.1 22.4 67.3





#95

Naphthalene

Concen: 1.21 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000489.D

Acq: 28 Mar 2018 15:26

Instrument :

MSVOA_X

ClientSampleId :

CL-02-032718-E

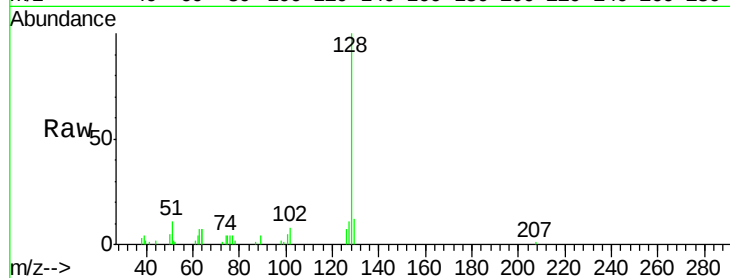
Tgt Ion:128 Resp: 8299

Ion Ratio Lower Upper

128 100

127 13.7 10.6 15.8

129 12.5 8.9 13.3



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

