

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071318\
 Data File : VX003381.D
 Acq On : 14 Jul 2018 00:14
 Operator : JC/MD
 Sample : J3958-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CS-CONCRETE

Quant Time: Jul 14 02:49:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071318W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 13 17:01:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	296268	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	443234	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	381410	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204297	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	188832	58.45	ug/l	0.00
Spiked Amount			Recovery	=	116.90%	
35) Dibromofluoromethane	5.51	113	164507	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	8.72	98	602612	56.53	ug/l	0.00
Spiked Amount			Recovery	=	113.06%	
62) 4-Bromofluorobenzene	11.14	95	199399	43.89	ug/l	0.00
Spiked Amount			Recovery	=	87.78%	

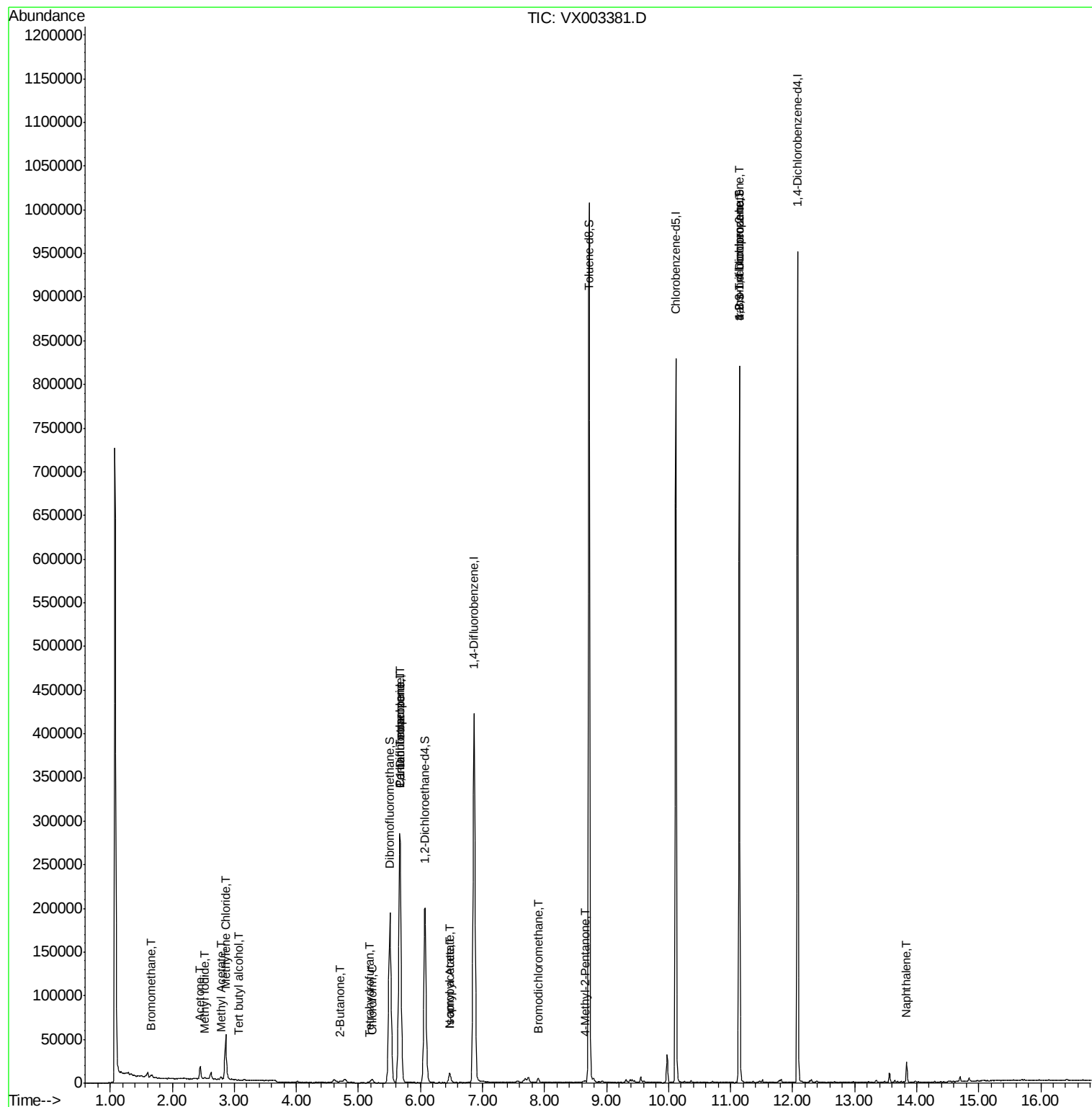
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	94	Below Cal	#	43
3) Chloromethane	1.33	50	1071	Below Cal	#	86
5) Bromomethane	1.65	94	2527	1.17	ug/l	83
6) Chloroethane	1.72	64	113	Below Cal	#	43
10) Methyl Iodide	2.52	142	1879	0.52	ug/l	94
11) Tert butyl alcohol	3.07	59	232	0.27	ug/l	# 73
13) Acrolein	2.30	56	137	Below Cal	#	1
16) Acetone	2.45	43	15995	9.62	ug/l	93
18) Methyl Acetate	2.78	43	3263	0.63	ug/l	92
20) Methylene Chloride	2.86	84	24190	5.66	ug/l	92
25) 2-Butanone	4.71	43	3040	1.18	ug/l	97
29) Tetrahydrofuran	5.17	42	984	0.60	ug/l	# 48
30) Chloroform	5.22	83	4628	0.73	ug/l	93
36) 1,1-Dichloropropene	5.67	75	18830	4.00	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	25496	5.31	ug/l	# 16
43) Isopropyl Acetate	6.47	43	14465	1.79	ug/l	97
47) Bromodichloromethane	7.90	83	1331	0.28	ug/l	# 83
51) 4-Methyl-2-Pentanone	8.65	43	2323	0.44	ug/l	# 82
74) N-amyl acetate	6.47	43	14465	2.21	ug/l	# 98
76) 1,2,3-Trichloropropane	11.14	75	98265	24.35	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	98265	81.17	ug/l	# 7
95) Naphthalene	13.83	128	14956	1.05	ug/l	99

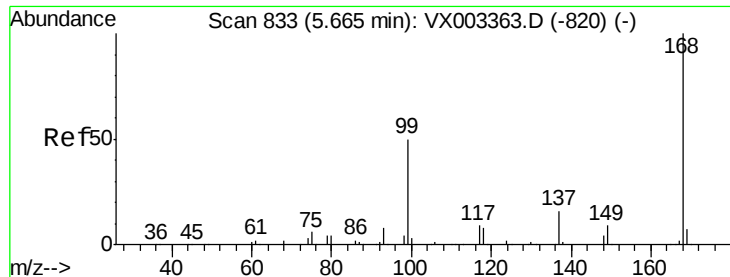
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX071318\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071318W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 13 17:01:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

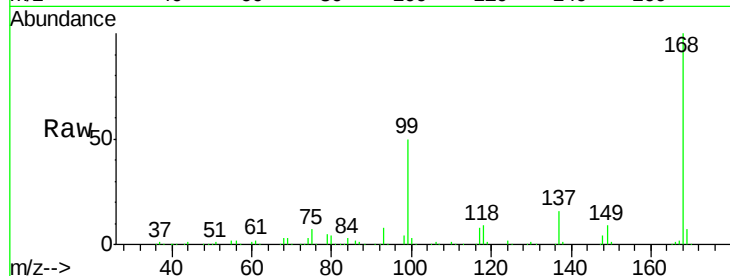
CS-CONCRETE

Tot Ion:168 Resp: 296268

Ion Ratio Lower Upper

168 100

99 50.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

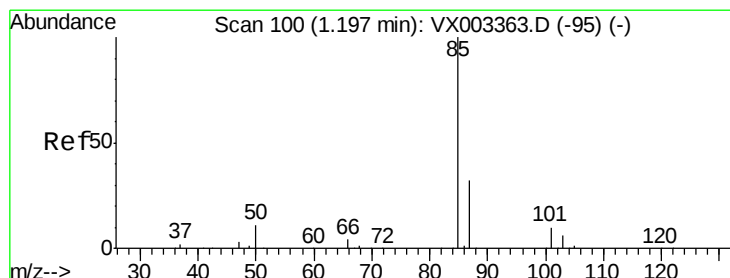
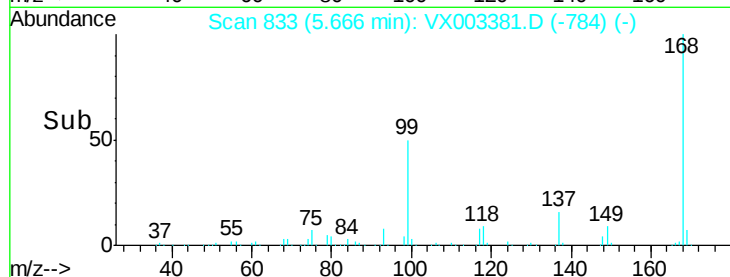
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003381.D

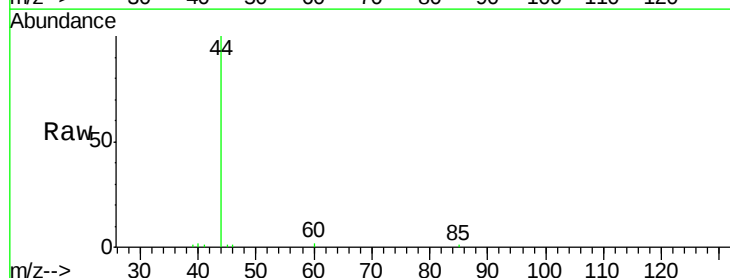
Acq: 14 Jul 2018 00:14

Tgt Ion: 85 Resp: 94

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

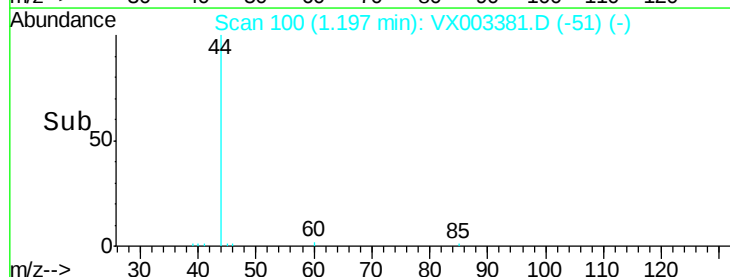
1.20

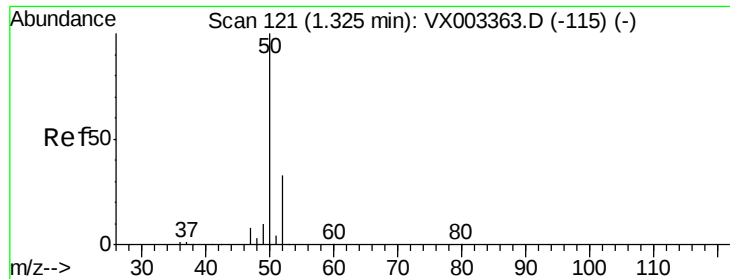
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

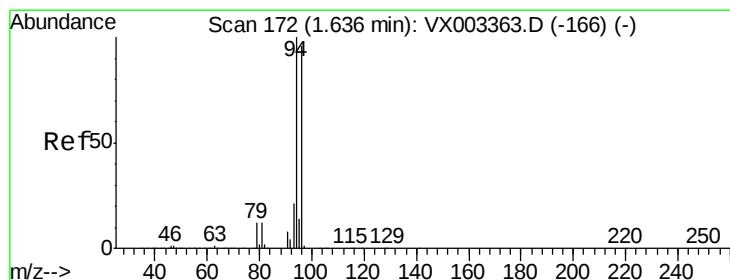
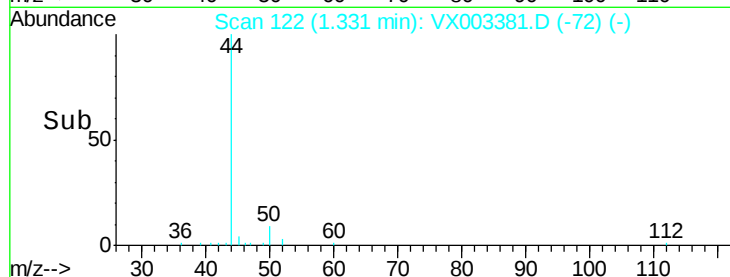
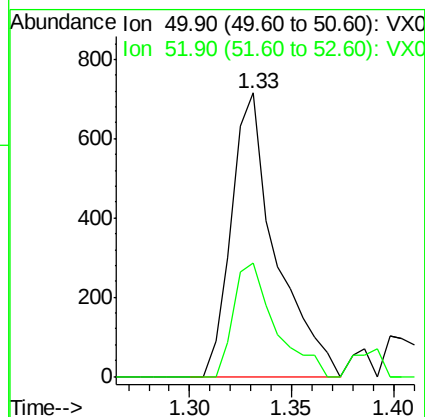
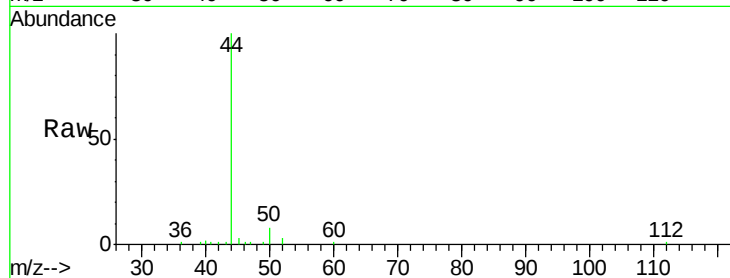
CS-CONCRETE

Tot Ion: 50 Resp: 1071

Ion Ratio Lower Upper

50 100

52 40.0 25.7 38.5#



#5

Bromomethane

Concen: 1.17 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003381.D

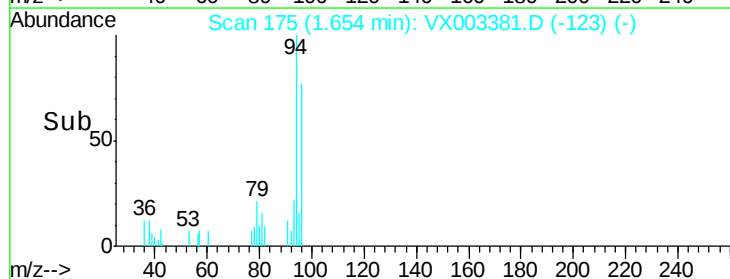
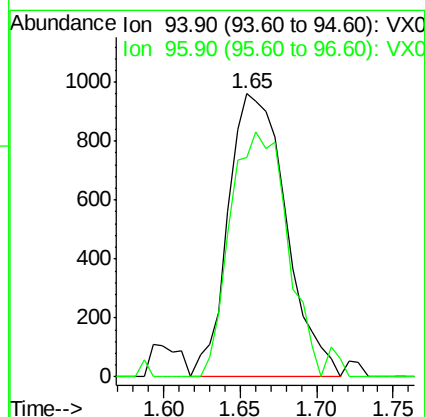
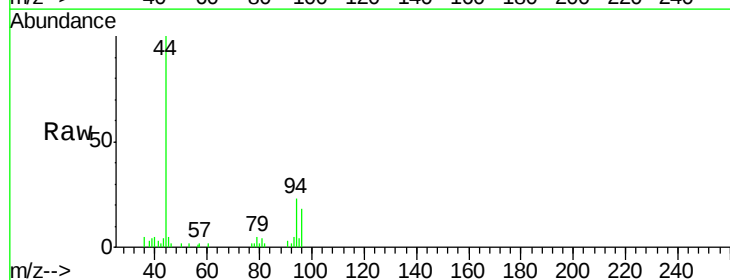
Acq: 14 Jul 2018 00:14

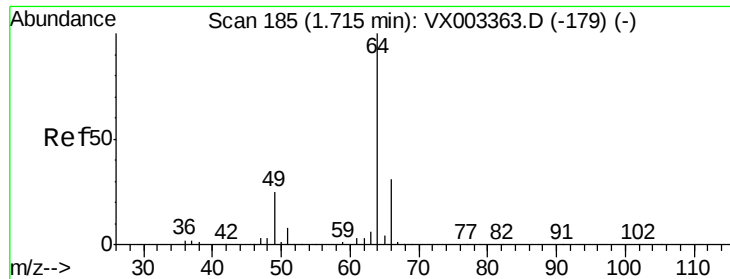
Tgt Ion: 94 Resp: 2527

Ion Ratio Lower Upper

94 100

96 77.3 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

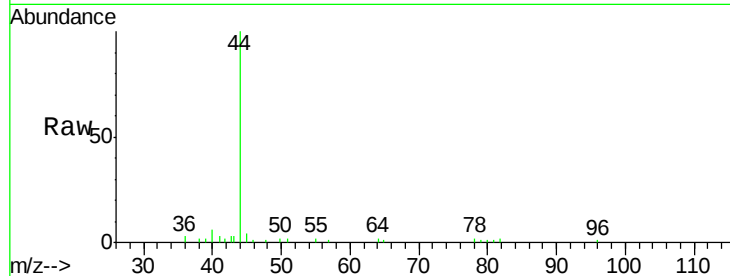
CS-CONCRETE

Tot Ion: 64 Resp: 113

Ion Ratio Lower Upper

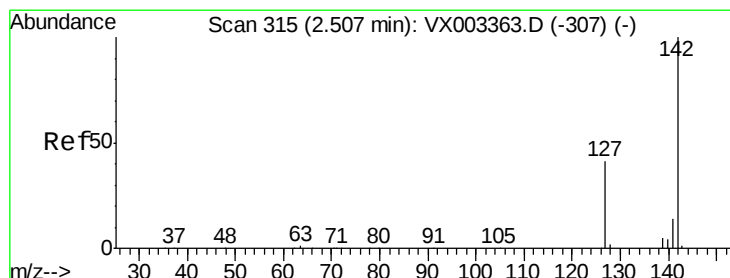
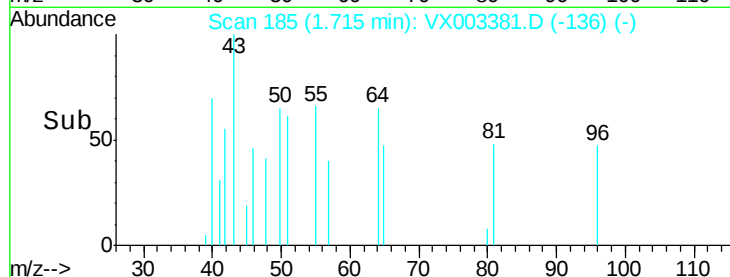
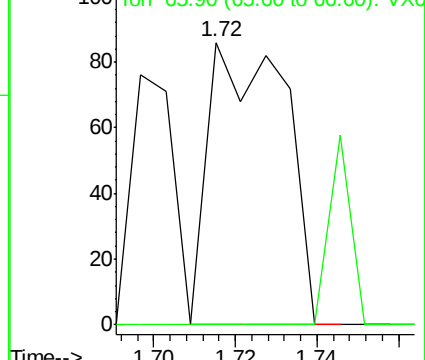
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.52 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

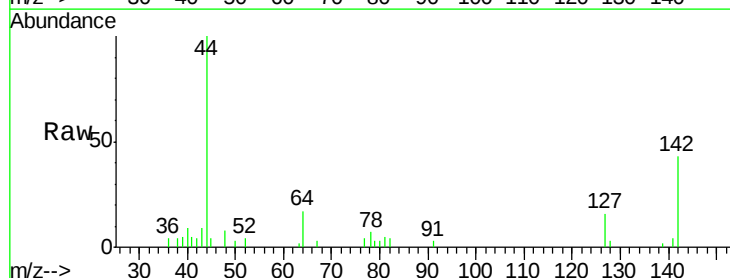
Tgt Ion: 142 Resp: 1879

Ion Ratio Lower Upper

142 100

127 41.8 36.6 55.0

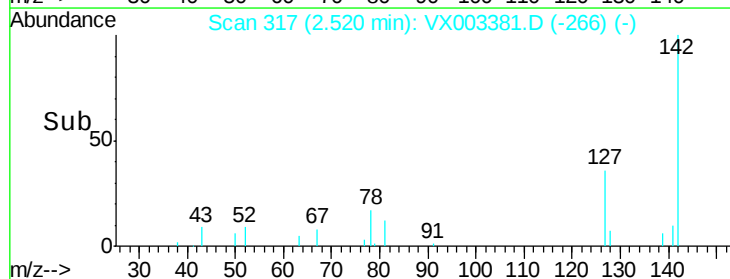
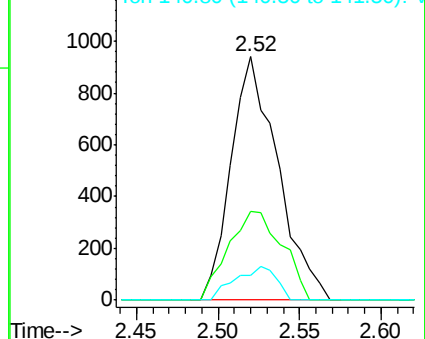
141 12.2 11.3 16.9

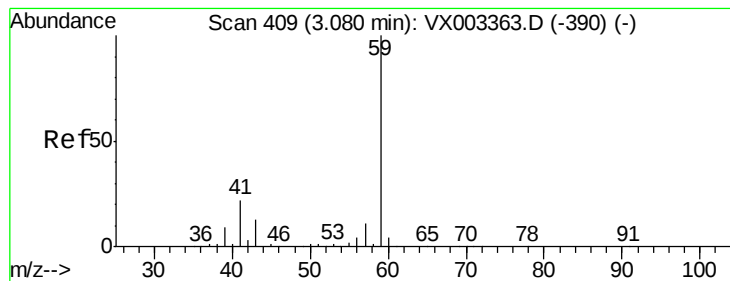


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



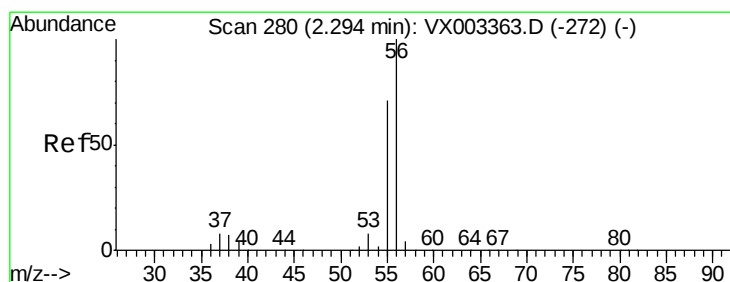
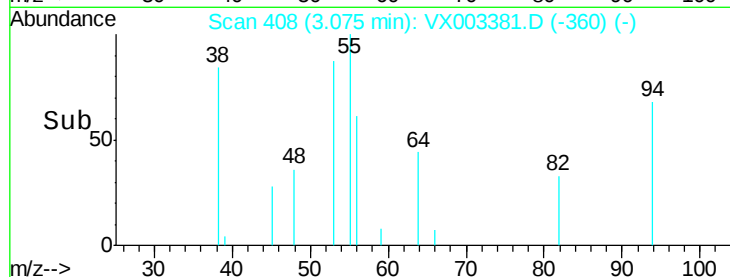
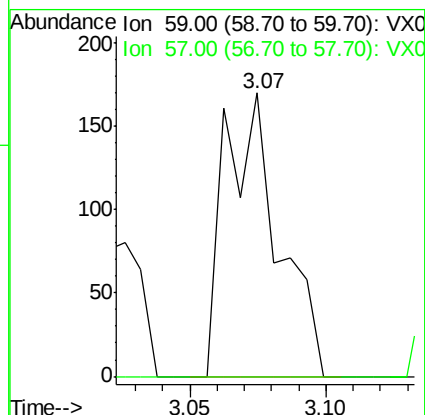
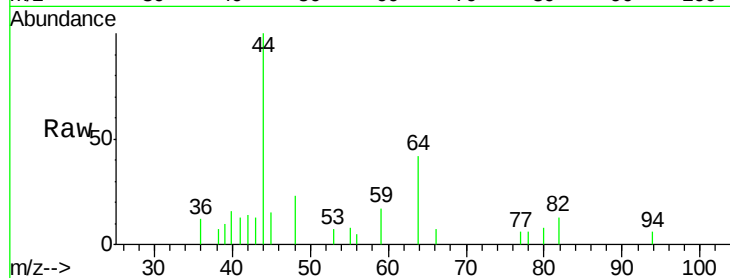


#11

Tert butyl alcohol
 Concen: 0.27 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

Instrument :
 MSVOA_X
 ClientSampleId :
 CS-CONCRETE

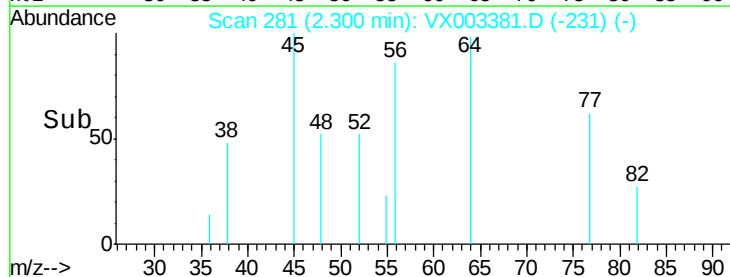
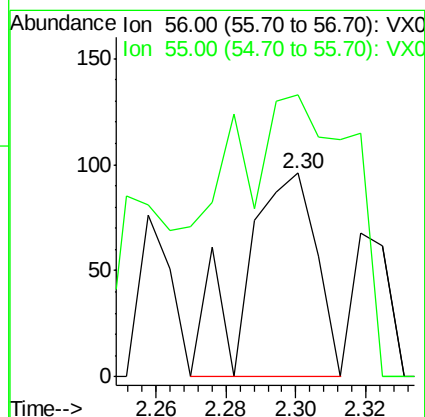
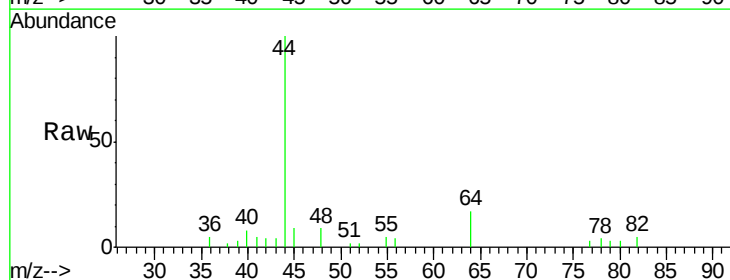
Tot Ion: 59 Resp: 232
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

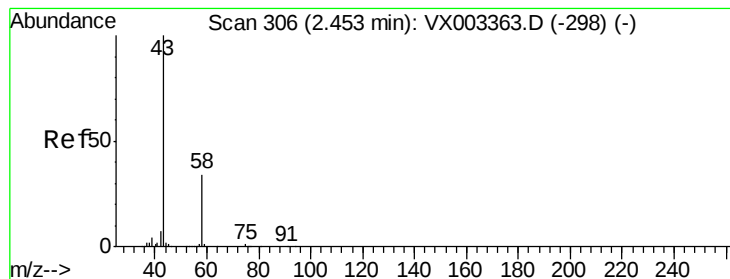


#13

Acrolein
 Concen: Below Cal
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

Tgt Ion: 56 Resp: 137
 Ion Ratio Lower Upper
 56 100
 55 256.2 57.0 85.4#





#16

Acetone

Concen: 9.62 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

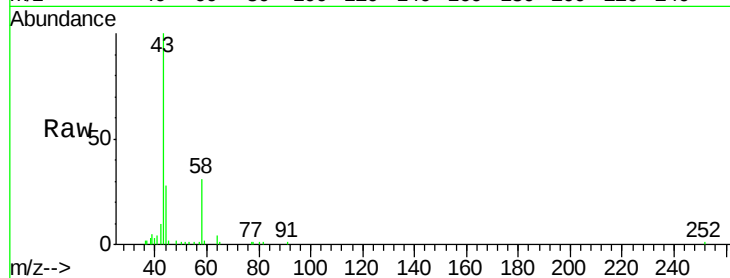
CS-CONCRETE

Tot Ion: 43 Resp: 15995

Ion Ratio Lower Upper

43 100

58 31.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

10000

8000

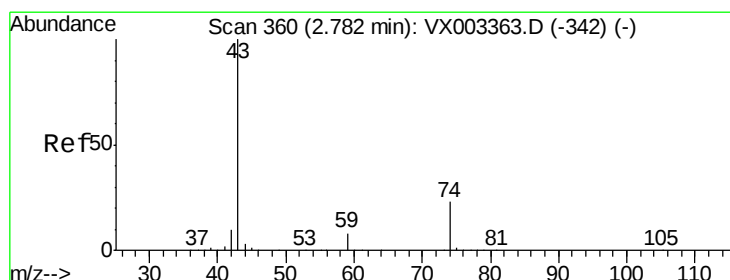
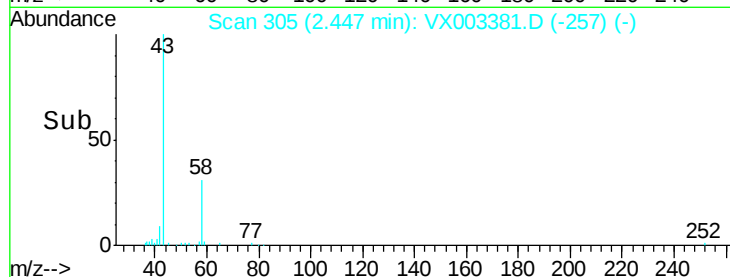
6000

4000

2000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 0.63 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.01 min

Lab File: VX003381.D

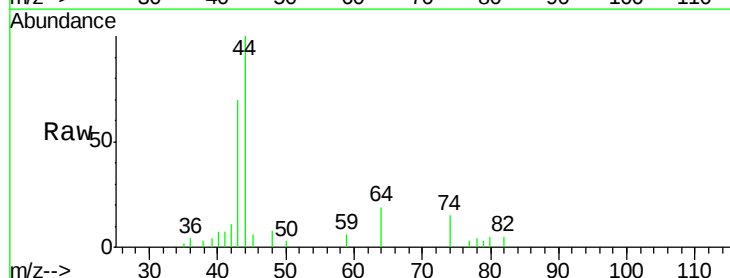
Acq: 14 Jul 2018 00:14

Tgt Ion: 43 Resp: 3263

Ion Ratio Lower Upper

43 100

74 24.6 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

2000

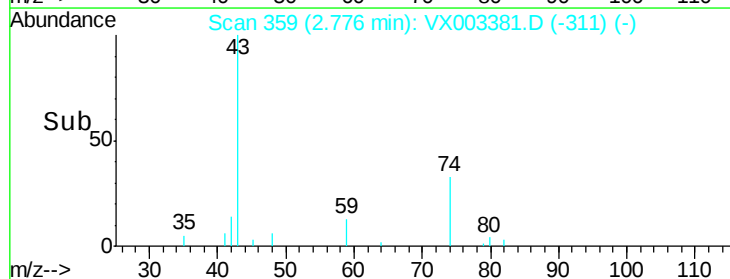
1500

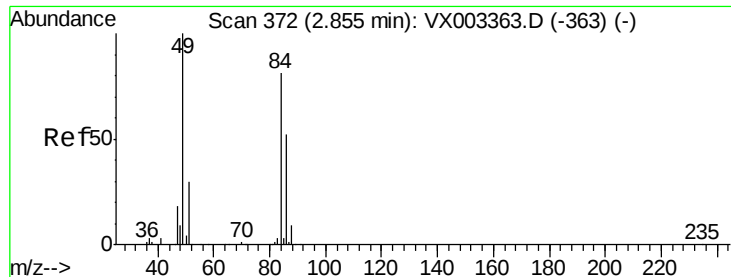
1000

500

0

Time--> 2.70 2.75 2.80 2.85

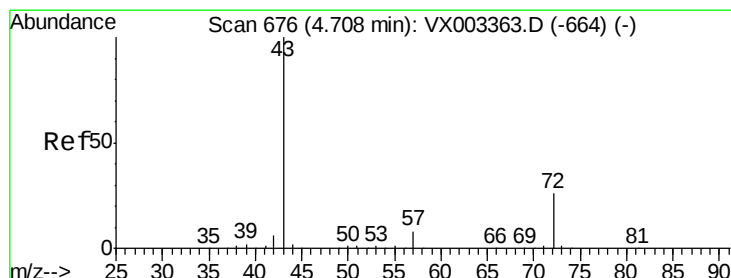
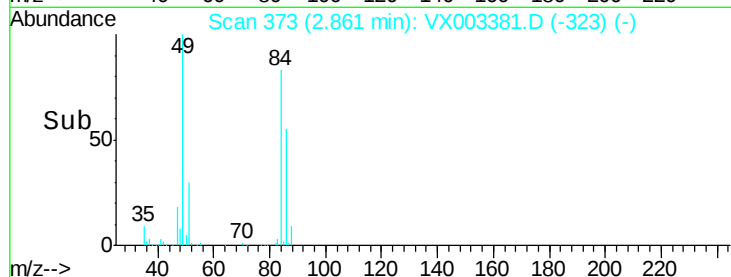
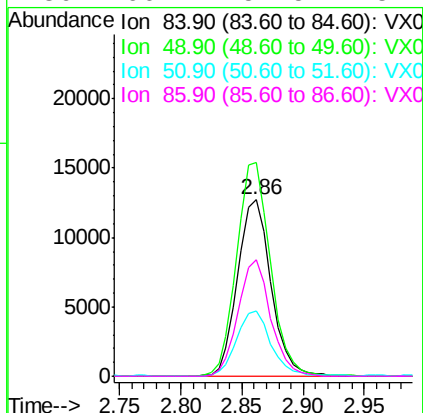
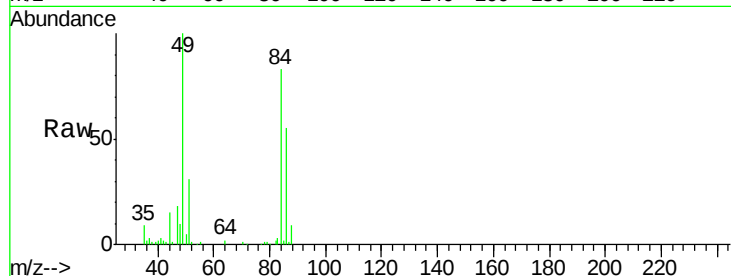




#20
Methylene Chloride
Concen: 5.66 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

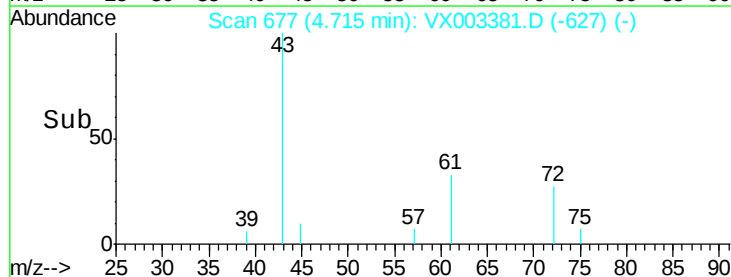
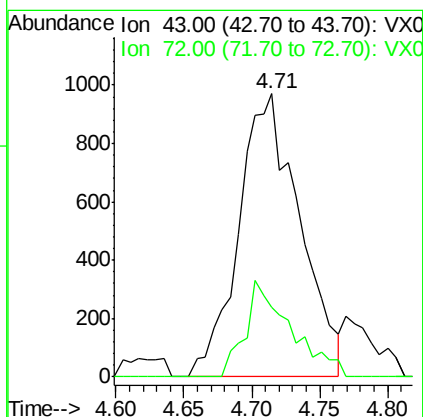
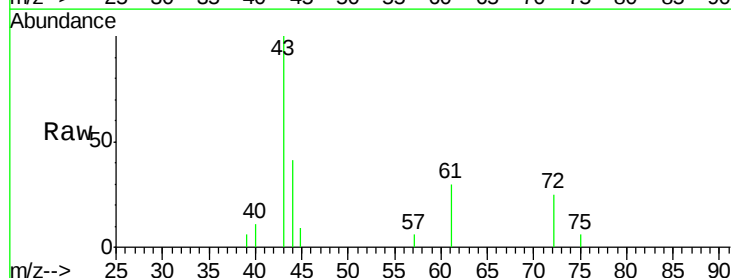
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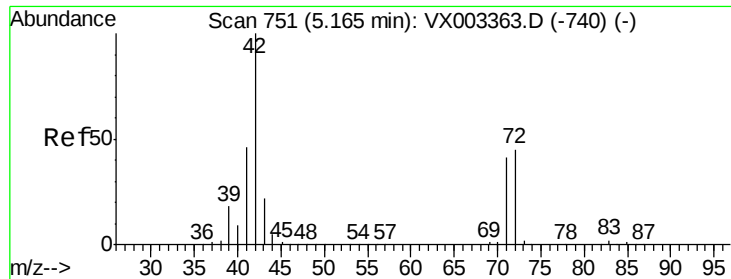
Tot Ion: 84 Resp: 24190
Ion Ratio Lower Upper
84 100
49 121.0 107.8 161.6
51 37.0 32.8 49.2
86 66.1 52.5 78.7



#25
2-Butanone
Concen: 1.18 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

Tgt Ion: 43 Resp: 3040
Ion Ratio Lower Upper
43 100
72 24.5 18.5 27.7

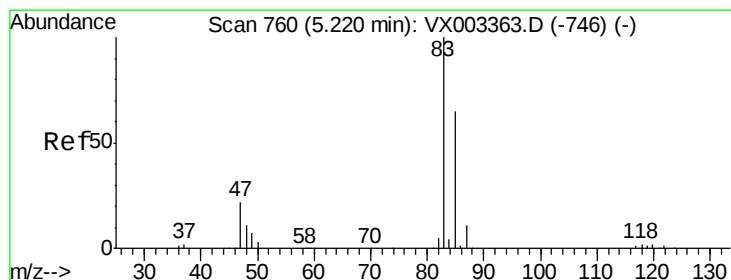
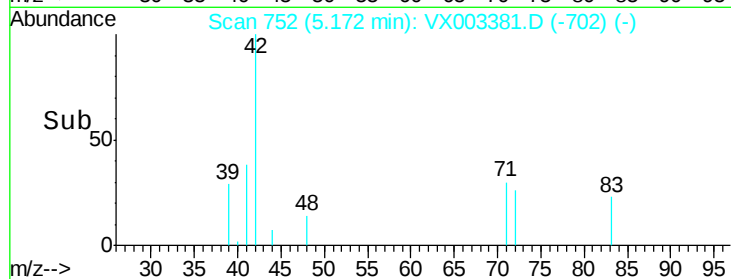
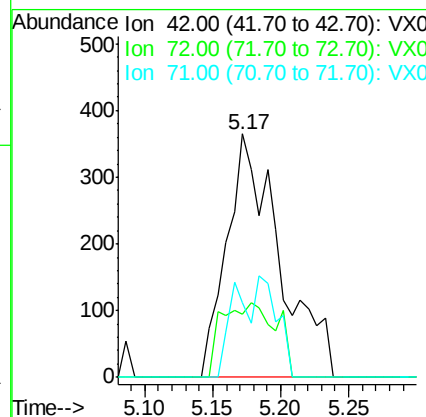
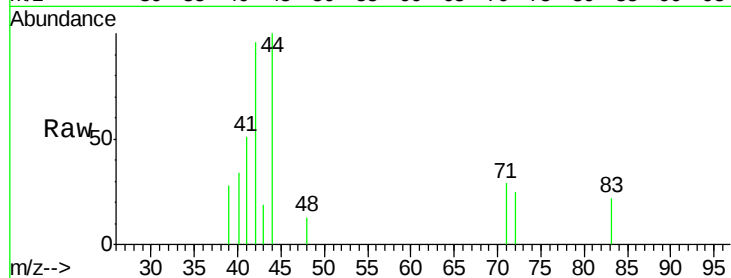




#29
Tetrahydrofuran
Concen: 0.60 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

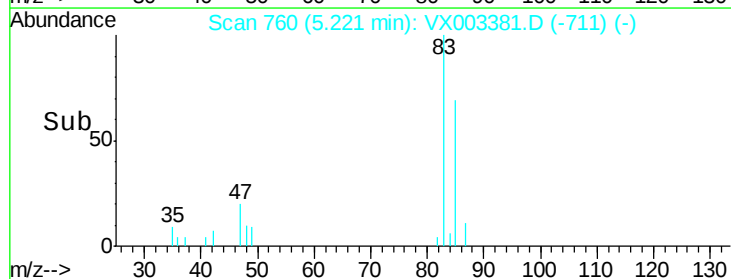
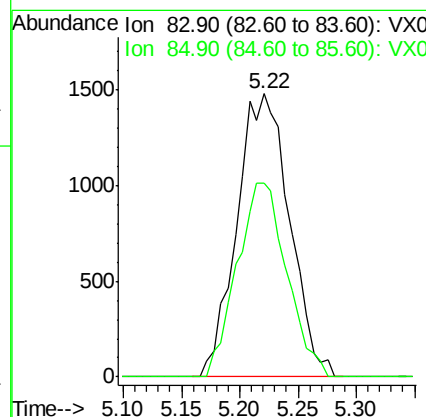
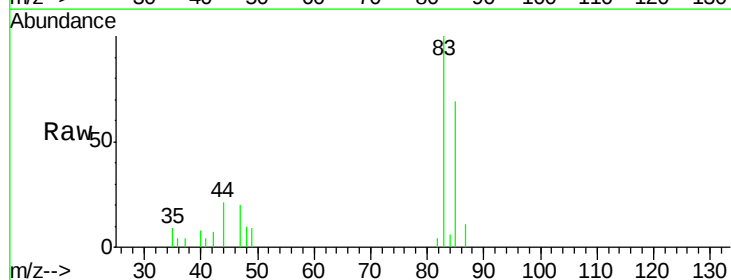
Instrument :
MSVOA_X
ClientSampleId :
CS-CONCRETE

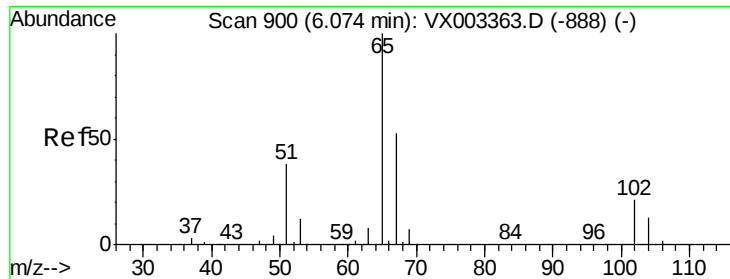
Tot Ion: 42 Resp: 984
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 14.9 30.1 45.1#



#30
Chloroform
Concen: 0.73 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

Tgt Ion: 83 Resp: 4628
Ion Ratio Lower Upper
83 100
85 68.6 50.4 75.6

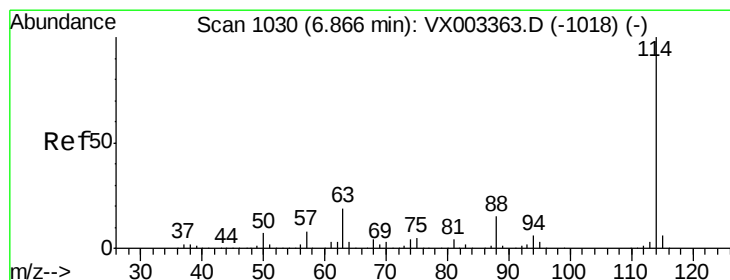
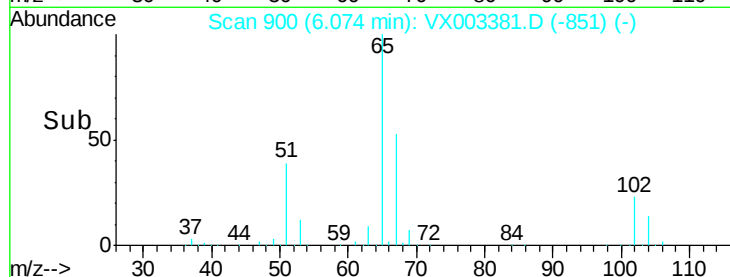
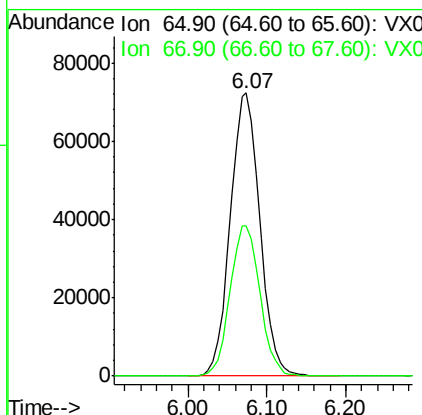
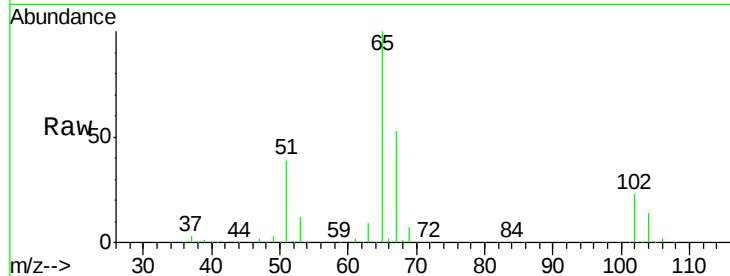




#33
 1,2-Dichloroethane-d4
 Concen: 58.45 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

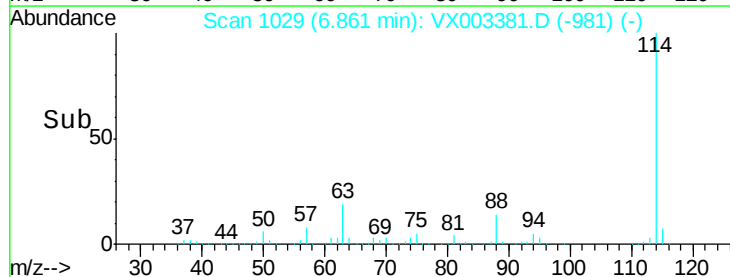
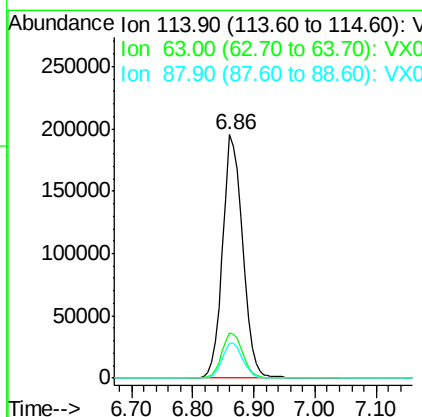
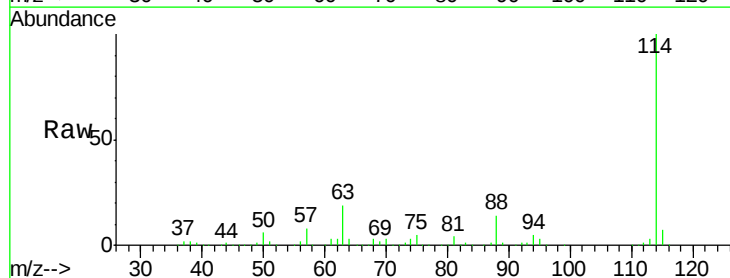
Instrument :
 MSVOA_X
 ClientSampleId :
 CS-CONCRETE

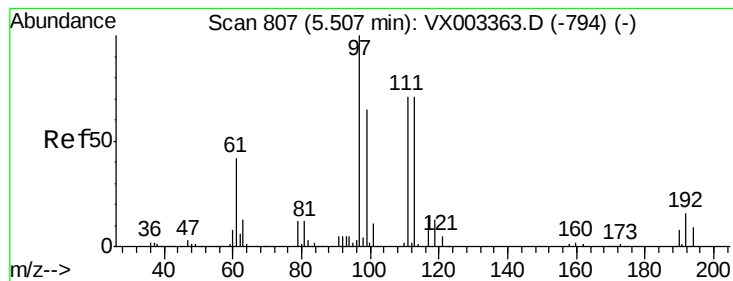
Tot Ion: 65 Resp: 188832
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

Tgt Ion: 114 Resp: 443234
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 41.4
 88 14.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 50.43 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

CS-CONCRETE

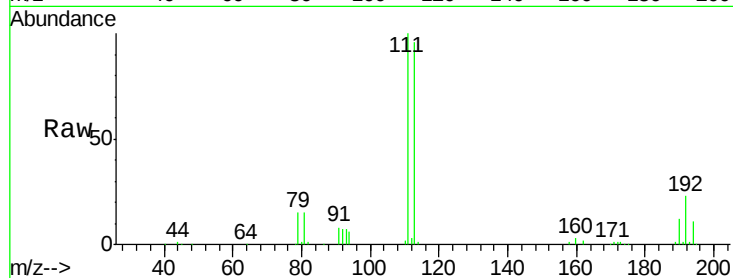
Tot Ion:113 Resp: 164507

Ion Ratio Lower Upper

113 100

111 103.3 81.4 122.0

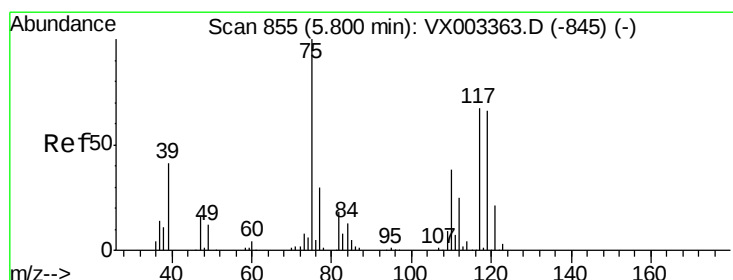
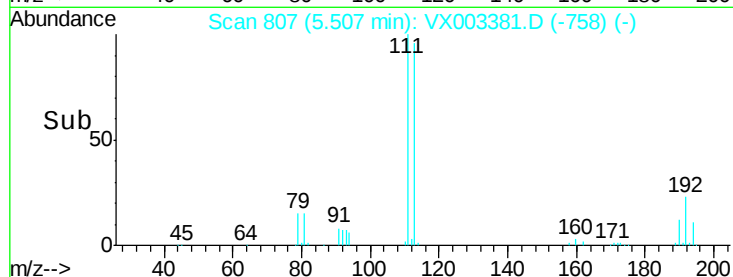
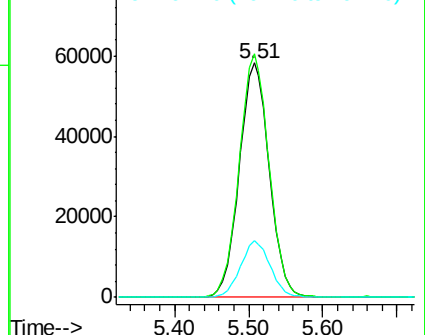
192 23.8 19.1 28.7



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: 4.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

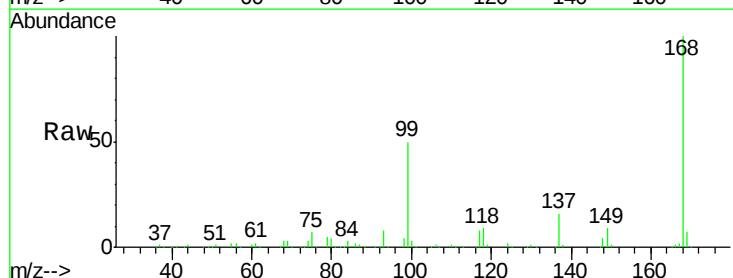
Tgt Ion: 75 Resp: 18830

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.4#

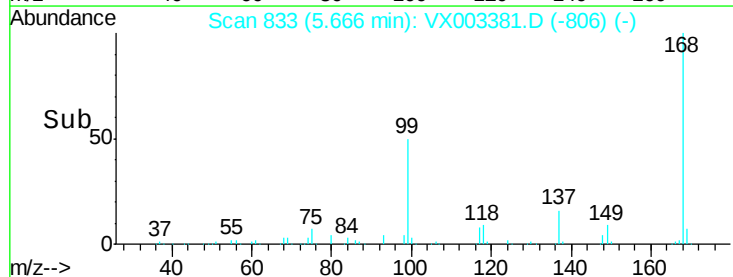
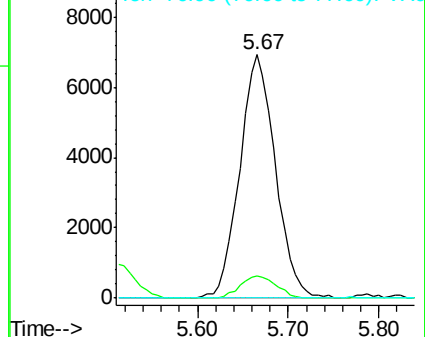
77 0.0 24.3 36.5#

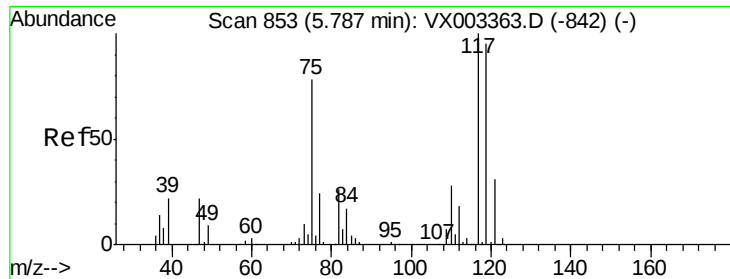


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

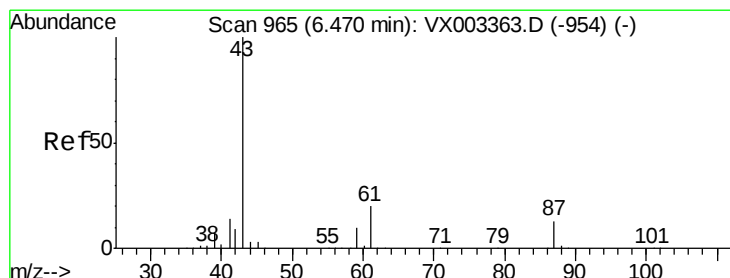
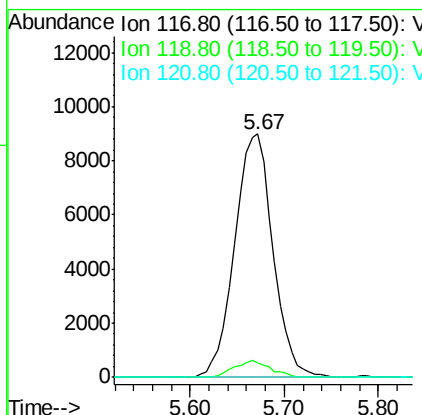
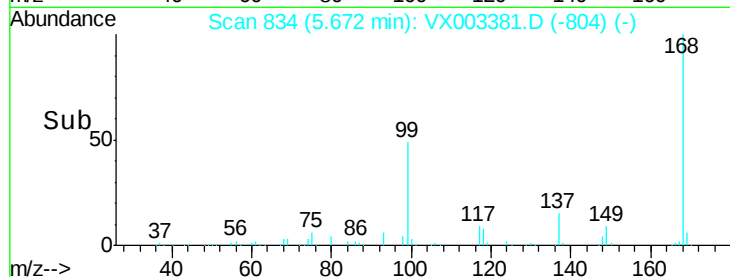
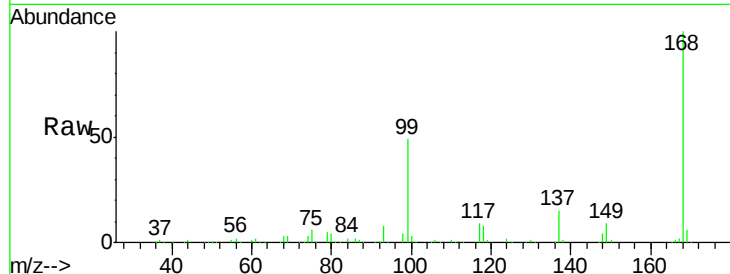




#38
 Carbon Tetrachloride
 Concen: 5.31 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

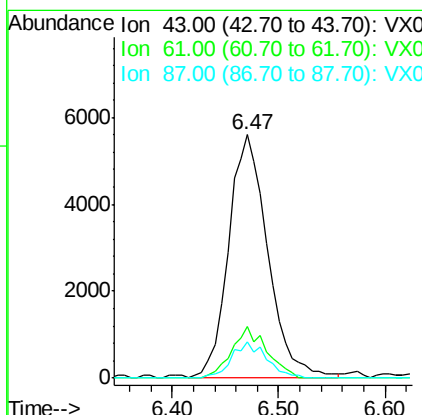
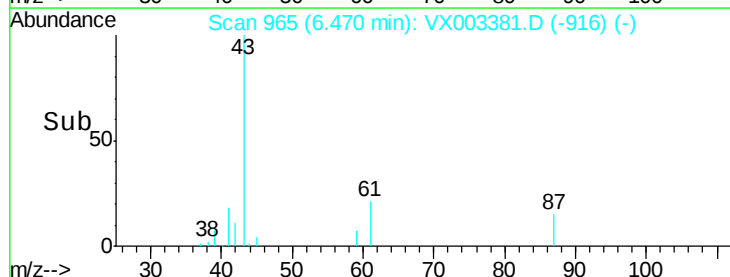
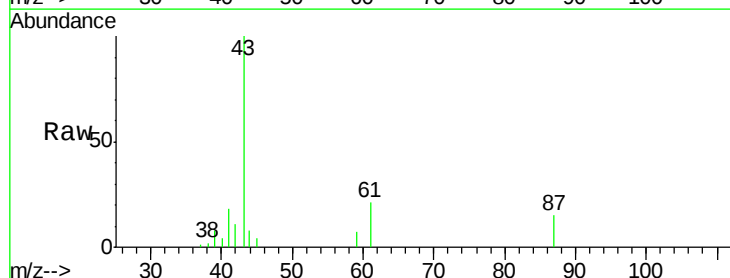
Instrument :
 MSVOA_X
 ClientSampleId :
 CS-CONCRETE

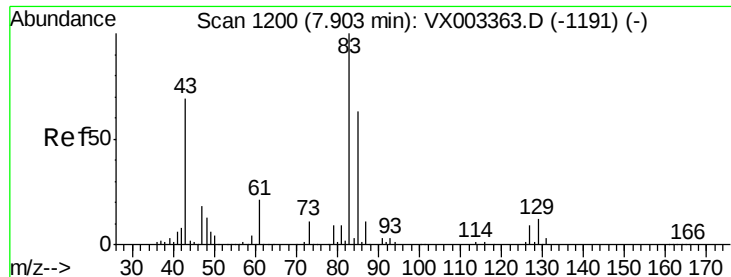
Tot Ion:117 Resp: 25496
 Ion Ratio Lower Upper
 117 100
 119 6.1 77.4 116.0#
 121 0.0 24.4 36.6#



#43
 Isopropyl Acetate
 Concen: 1.79 ug/l
 RT: 6.47 min Scan# 965
 Delta R.T. 0.00 min
 Lab File: VX003381.D
 Acq: 14 Jul 2018 00:14

Tgt Ion: 43 Resp: 14465
 Ion Ratio Lower Upper
 43 100
 61 18.8 14.4 21.6
 87 13.3 9.5 14.3





#47

Bromodichloromethane

Concen: 0.28 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

CS-CONCRETE

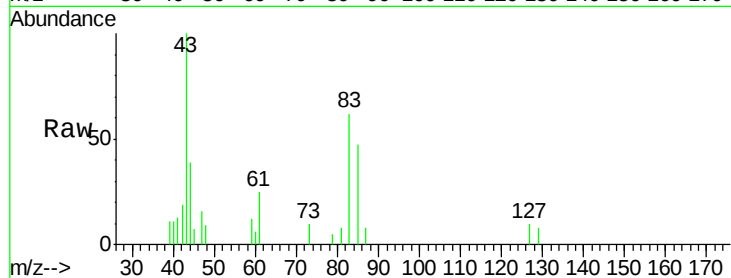
Tot Ion: 83 Resp: 1331

Ion Ratio Lower Upper

83 100

85 75.5 50.3 75.5#

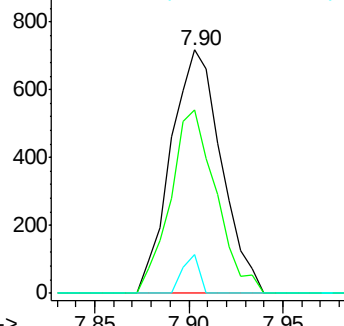
127 15.9 7.0 10.4#



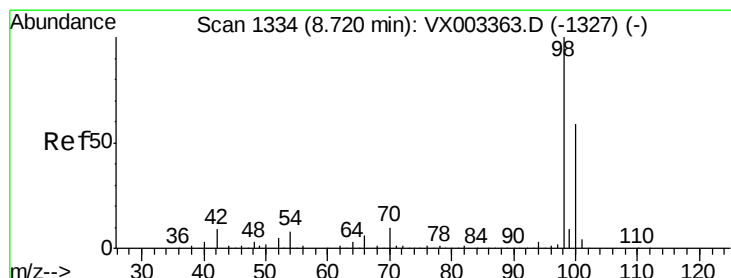
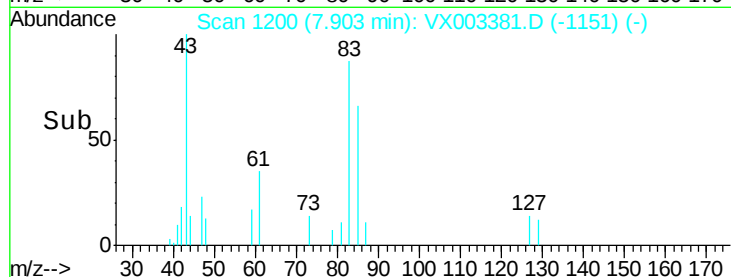
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



Time-->



#50

Toluene-d8

Concen: 56.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003381.D

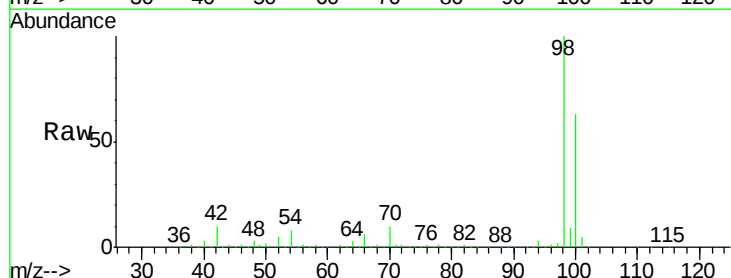
Acq: 14 Jul 2018 00:14

Tgt Ion: 98 Resp: 602612

Ion Ratio Lower Upper

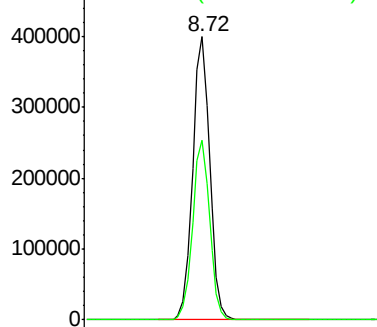
98 100

100 63.3 50.9 76.3

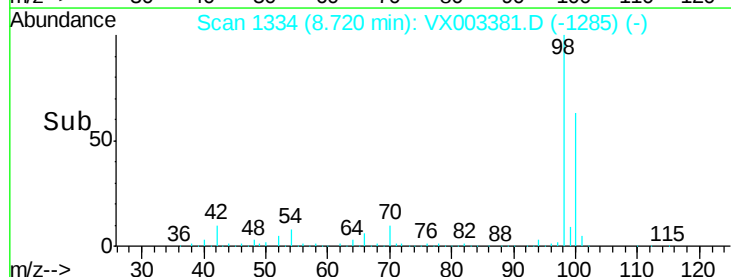


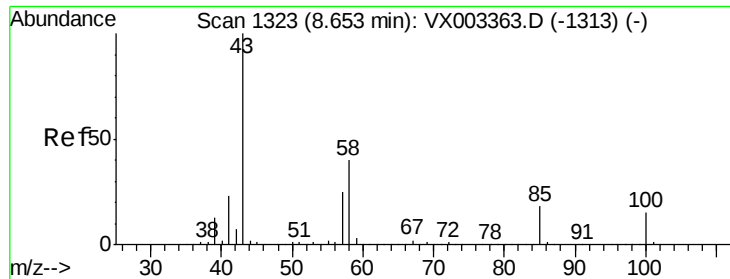
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.44 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

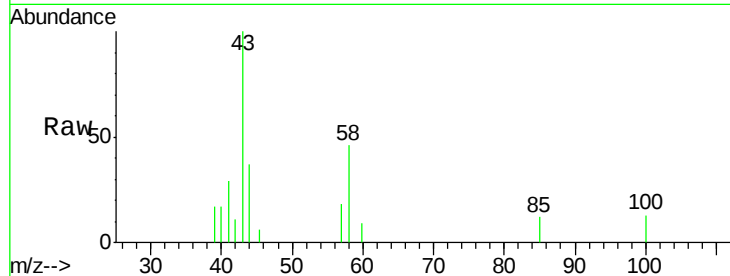
CS-CONCRETE

Tot Ion: 43 Resp: 2323

Ion Ratio Lower Upper

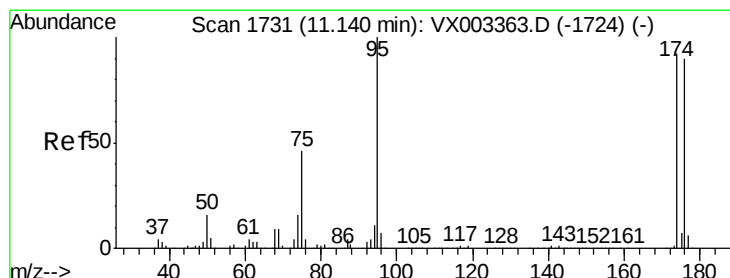
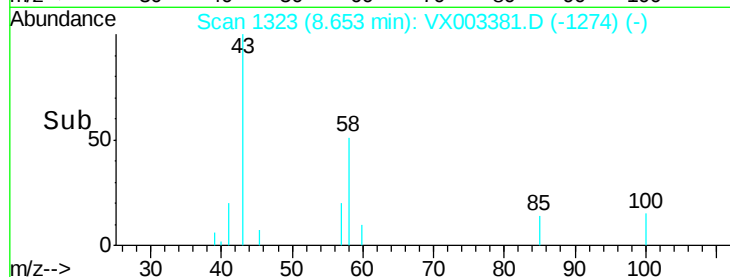
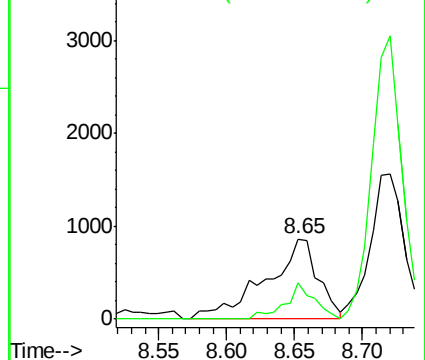
43 100

58 25.2 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.89 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

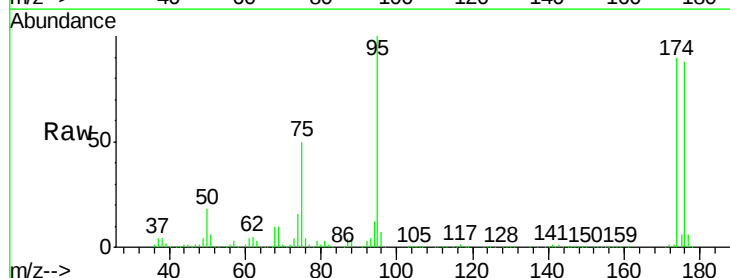
Tgt Ion: 95 Resp: 199399

Ion Ratio Lower Upper

95 100

174 92.4 0.0 187.4

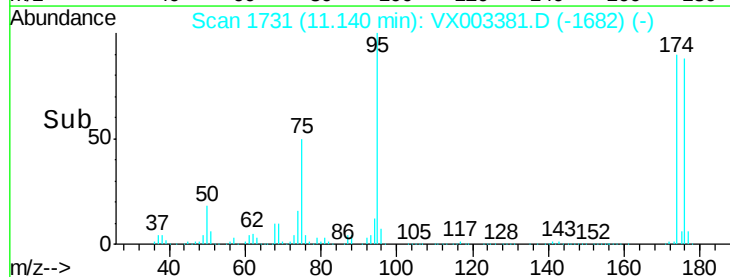
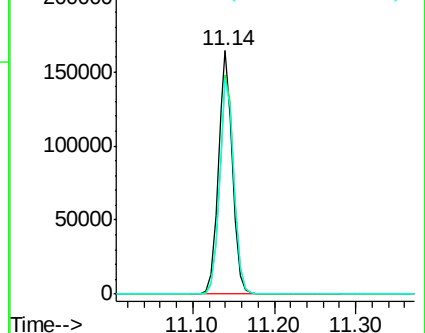
176 89.8 0.0 181.0

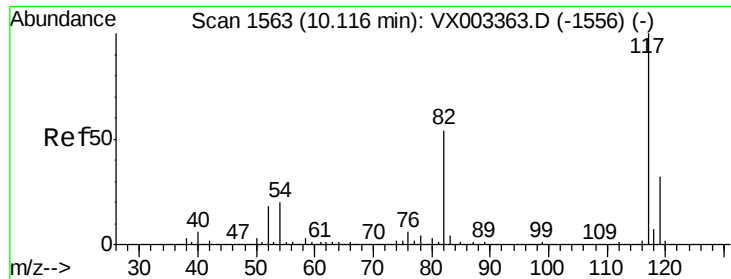


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

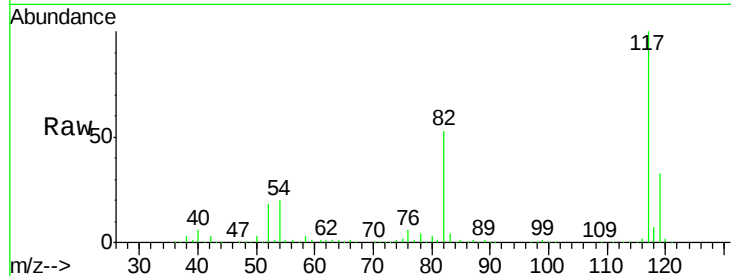




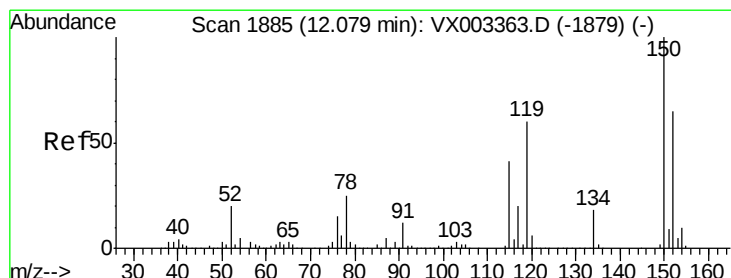
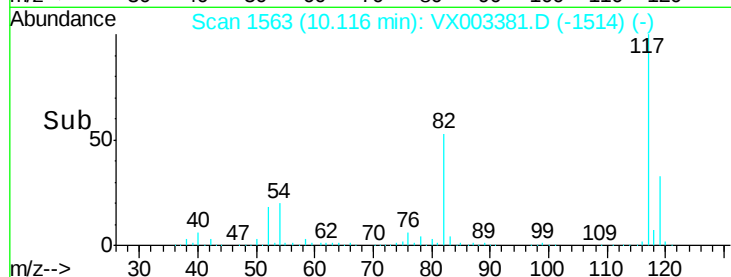
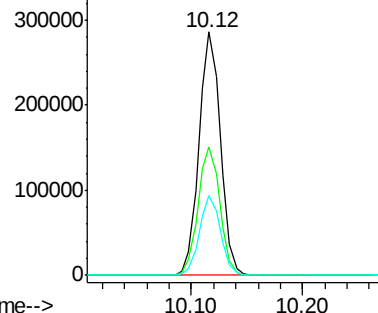
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

Instrument :
MSVOA_X
ClientSampleId :
CS-CONCRETE

Tot Ion:117 Resp: 381410
Ion Ratio Lower Upper
117 100
82 52.8 45.0 67.4
119 32.6 25.8 38.6

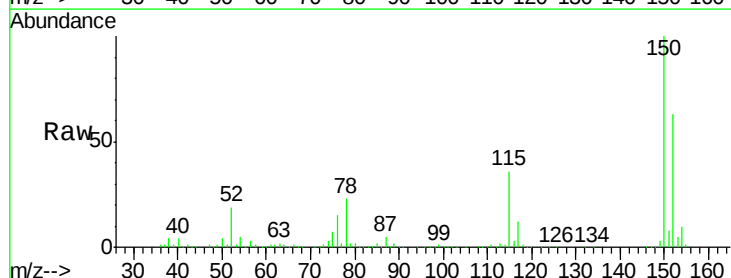


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

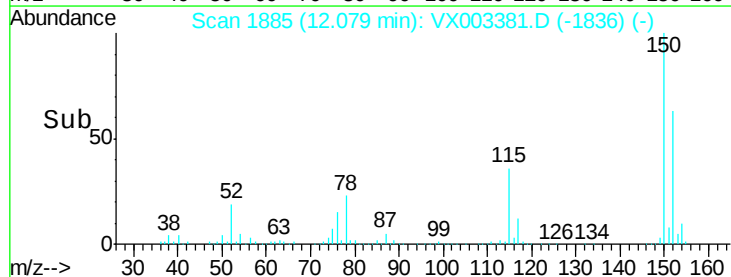
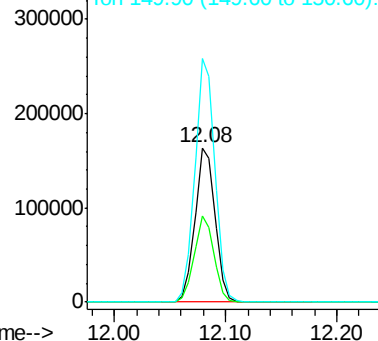


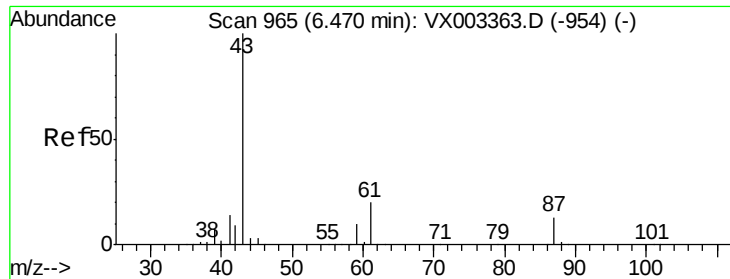
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003381.D
Acq: 14 Jul 2018 00:14

Tgt Ion:152 Resp: 204297
Ion Ratio Lower Upper
152 100
115 54.8 40.1 120.2
150 157.0 0.0 347.2



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-amyl acetate

Concen: 2.21 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

CS-CONCRETE

Tot Ion: 43 Resp: 14465

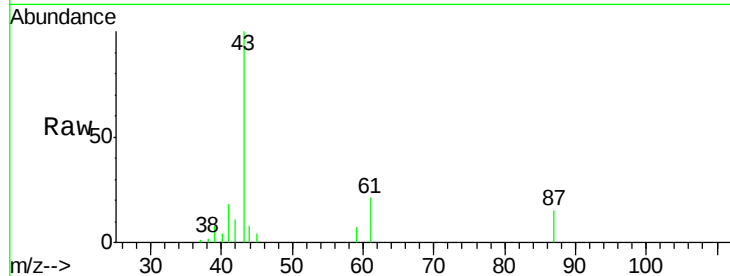
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 18.8 14.4 21.6

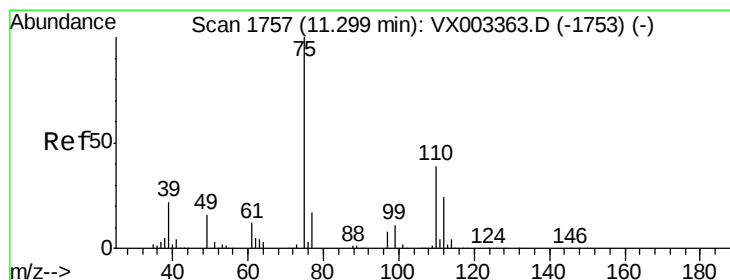
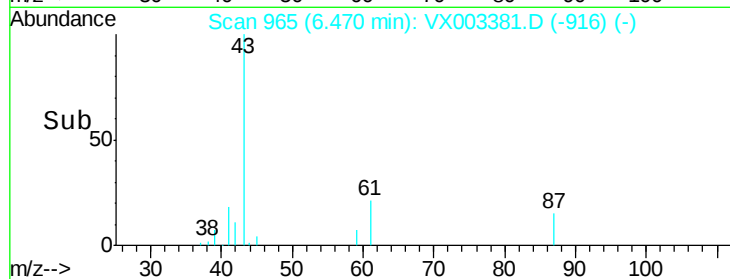
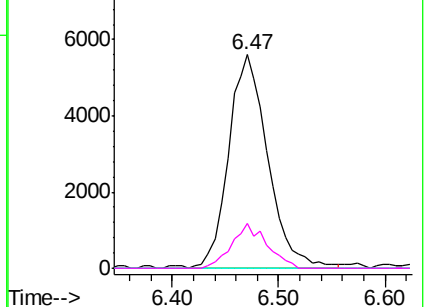


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003381.D

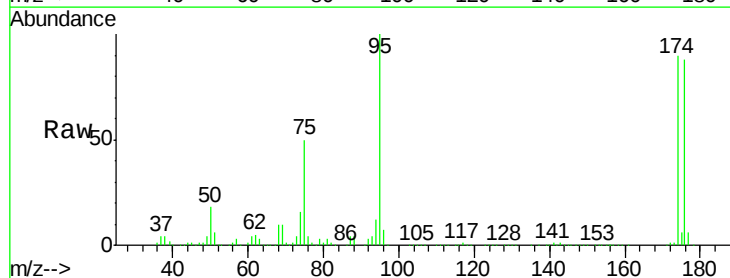
Acq: 14 Jul 2018 00:14

Tgt Ion: 75 Resp: 98265

Ion Ratio Lower Upper

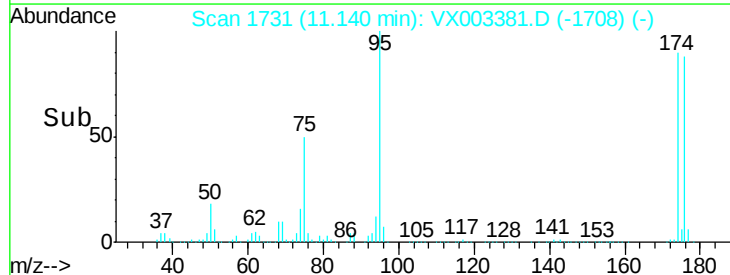
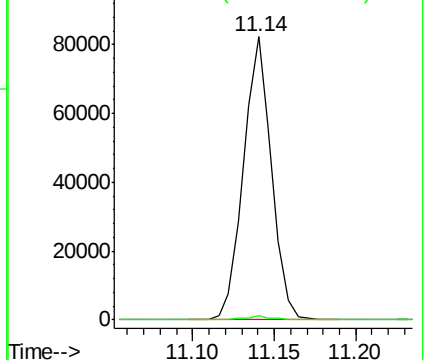
75 100

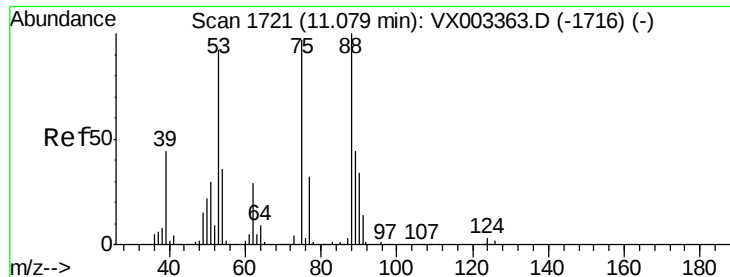
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 81.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

Instrument :

MSVOA_X

ClientSampleId :

CS-CONCRETE

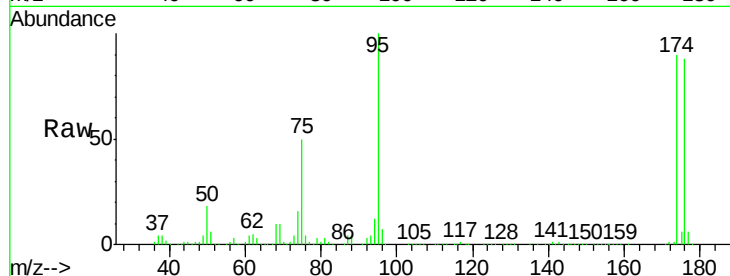
Tot Ion: 75 Resp: 98265

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

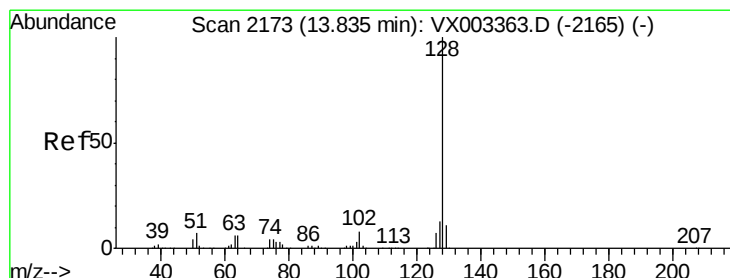
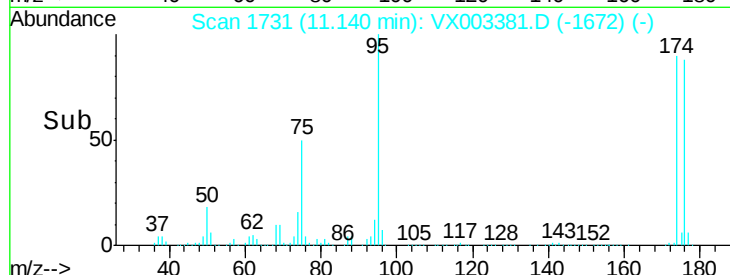
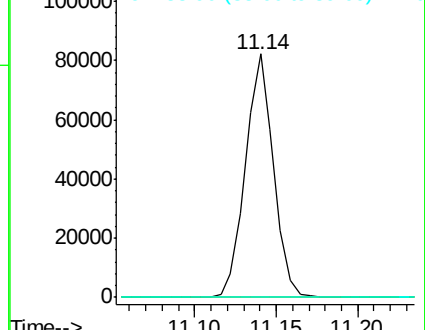
89 0.0 38.2 57.2#



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



#95

Naphthalene

Concen: 1.05 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003381.D

Acq: 14 Jul 2018 00:14

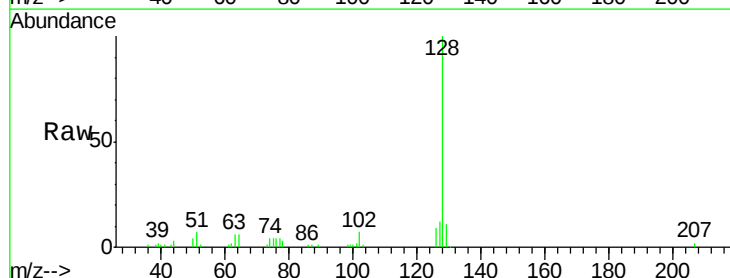
Tgt Ion: 128 Resp: 14956

Ion Ratio Lower Upper

128 100

127 12.3 10.4 15.6

129 11.1 8.6 13.0



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

