

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX040419\
 Data File : VX008656.D
 Acq On : 04 Apr 2019 23:53
 Operator : JC/SP
 Sample : K2274-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-TB01-190402

Quant Time: Apr 05 07:13:14 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	5.66	168	220752	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	365285	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	315538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131254	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	151324	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
35) Dibromofluoromethane	5.50	113	110131	47.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.32%	
50) Toluene-d8	8.71	98	454070	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
62) 4-Bromofluorobenzene	11.13	95	154625	46.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.78%	

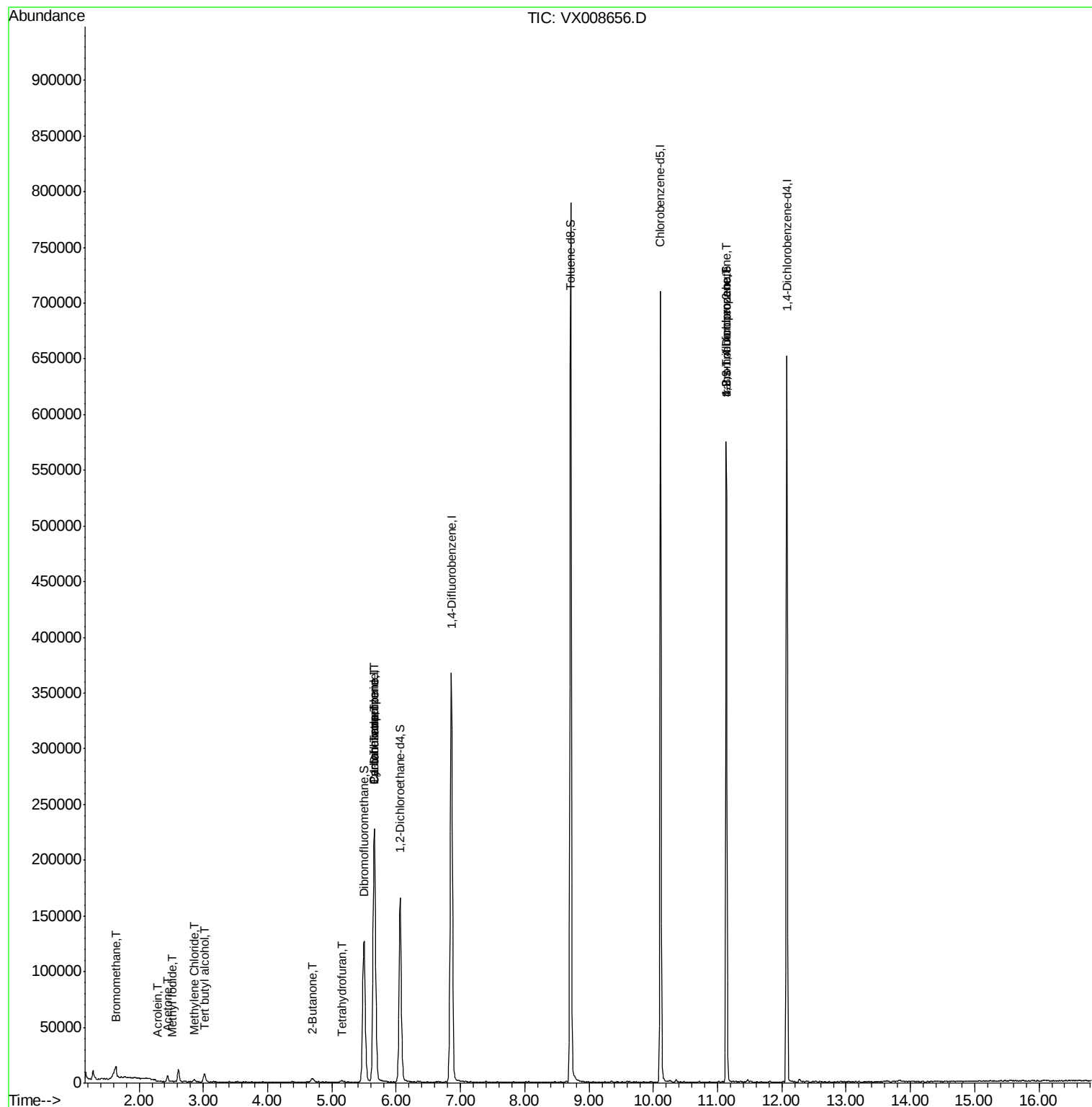
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	486	Below Cal		95
5) Bromomethane	1.64	94	679	2.271 ug/l		86
6) Chloroethane	1.75	64	192	Below Cal	#	43
10) Methyl Iodide	2.51	142	457	4.192 ug/l	#	79
11) Tert butyl alcohol	3.02	59	4934	6.546 ug/l	#	73
13) Acrolein	2.28	56	90	0.241 ug/l	#	82
16) Acetone	2.44	43	6027	3.250 ug/l		95
17) Carbon Disulfide	2.57	76	947	Below Cal	#	87
20) Methylene Chloride	2.85	84	883	0.284 ug/l	#	89
25) 2-Butanone	4.69	43	1513	0.516 ug/l		94
28) Bromochloromethane	5.01	49	63	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	1582	0.813 ug/l	#	74
31) Cyclohexane	5.66	56	5005	0.900 ug/l	#	1
36) 1,1-Dichloropropene	5.66	75	18041	4.518 ug/l	#	50
38) Carbon Tetrachloride	5.66	117	21021	6.361 ug/l	#	17
76) 1,2,3-Trichloropropane	11.13	75	78092	21.658 ug/l	#	34
81) trans-1,4-Dichloro-2-buten	11.13	75	78092	59.702 ug/l	#	9

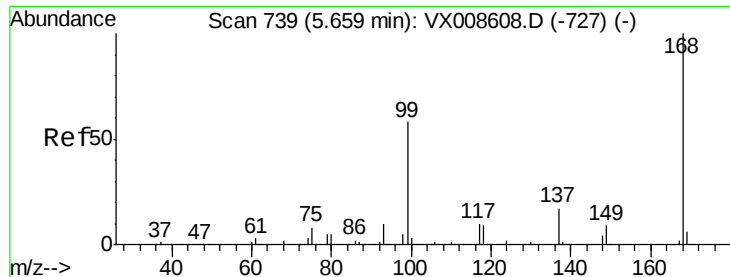
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

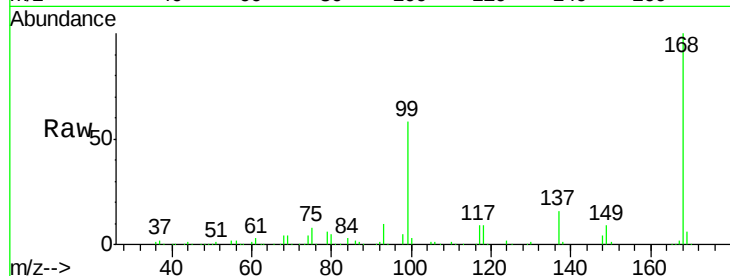
Z3-TB01-190402

Tgt Ion:168 Resp: 220752

Ion Ratio Lower Upper

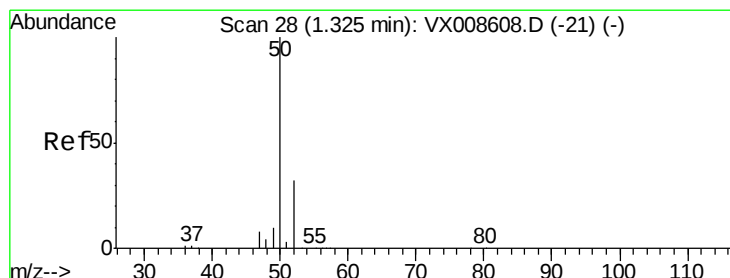
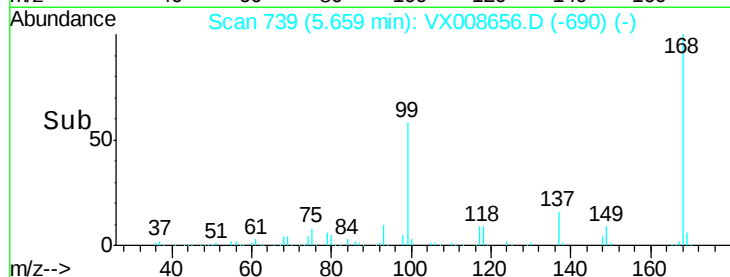
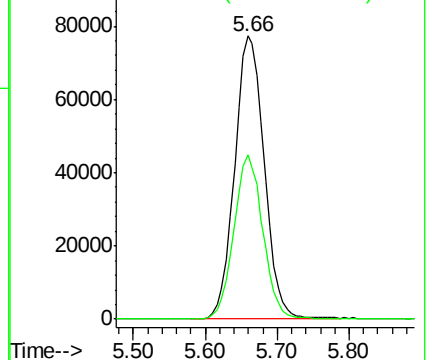
168 100

99 58.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008656.D

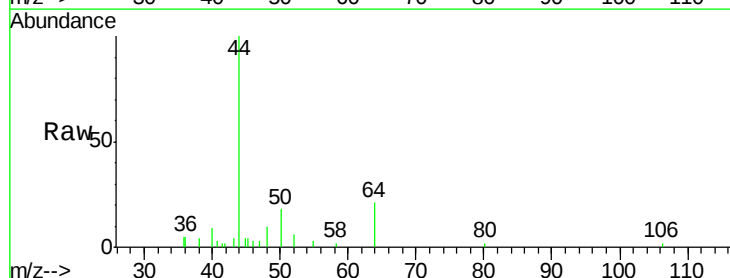
Acq: 04 Apr 2019 23:53

Tgt Ion: 50 Resp: 486

Ion Ratio Lower Upper

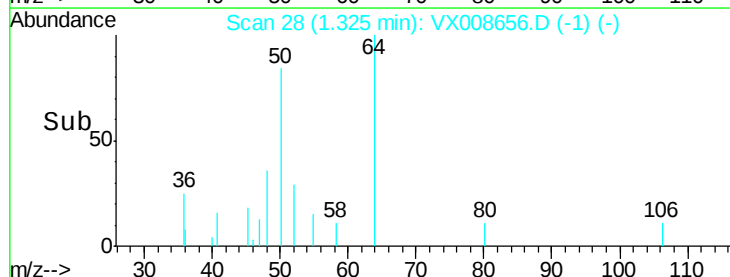
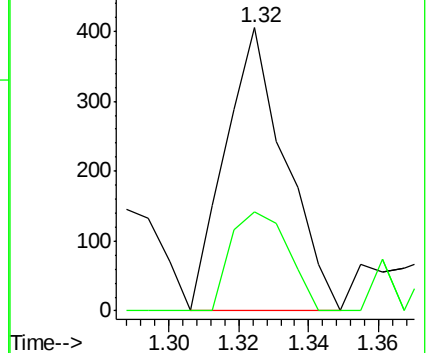
50 100

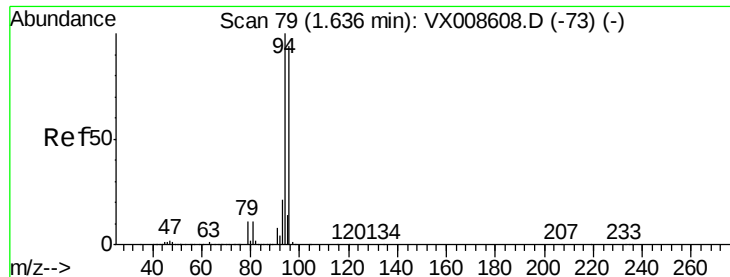
52 35.1 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.271 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

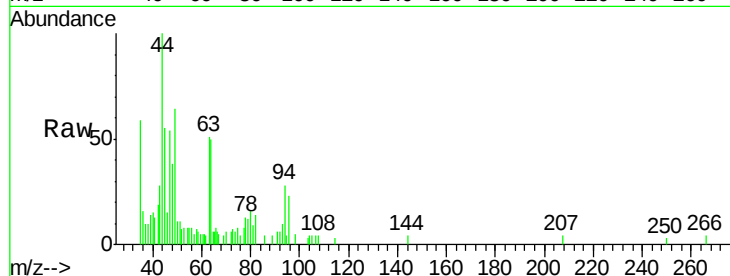
Z3-TB01-190402

Tgt Ion: 94 Resp: 679

Ion Ratio Lower Upper

94 100

96 80.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

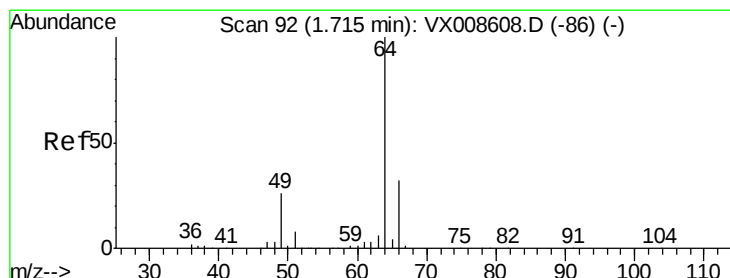
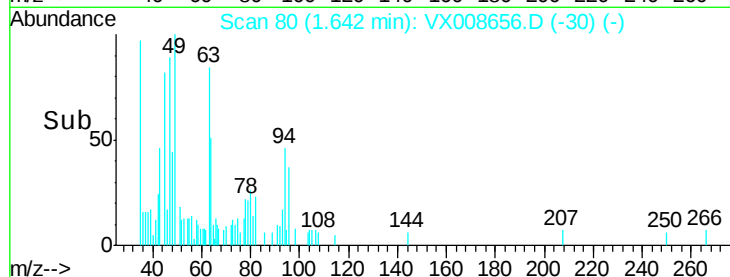
200

100

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX008656.D

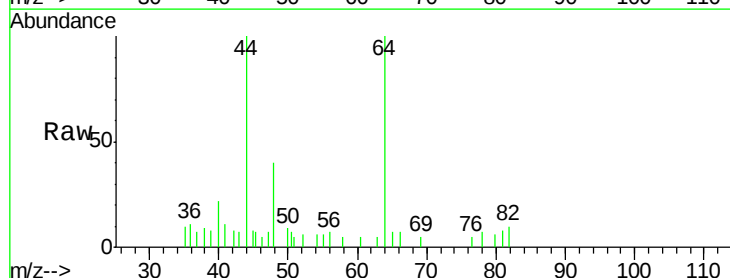
Acq: 04 Apr 2019 23:53

Tgt Ion: 64 Resp: 192

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

1.75

1200

1000

800

600

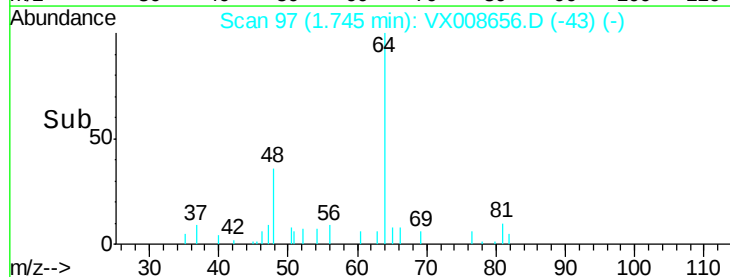
400

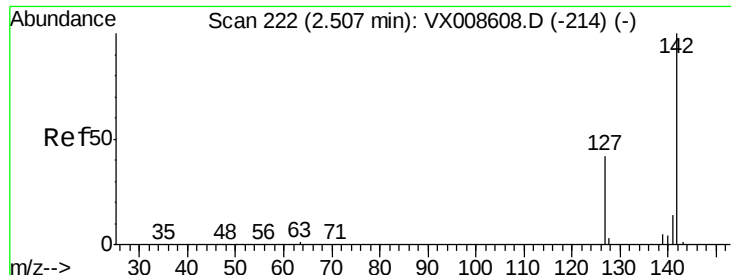
200

0

1.73 1.74 1.75

Time-->

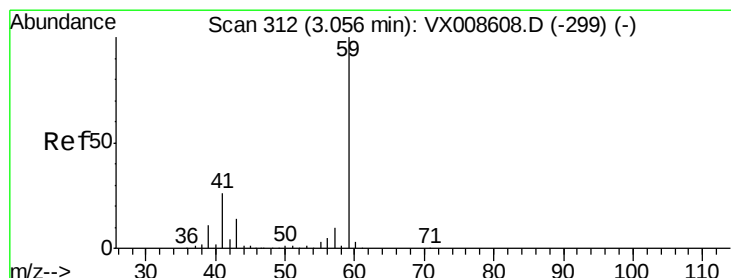
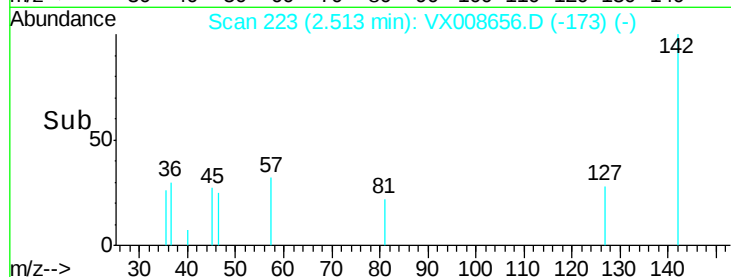
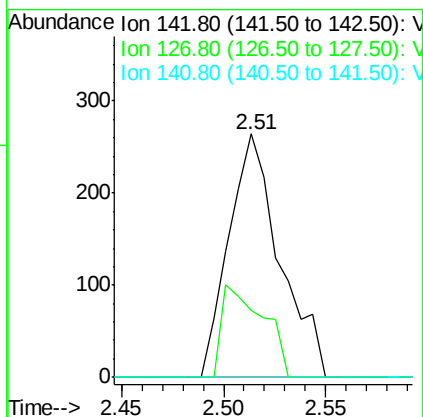
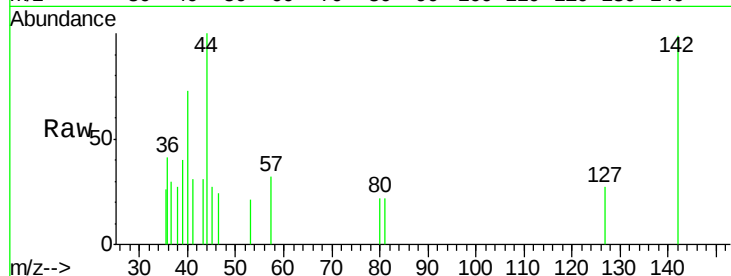




#10
Methyl Iodide
Concen: 4.192 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

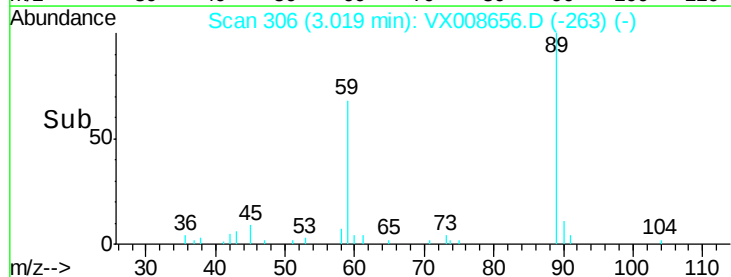
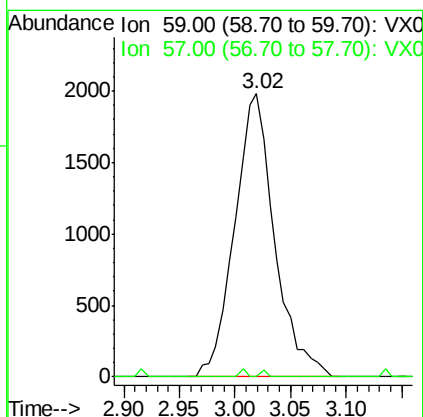
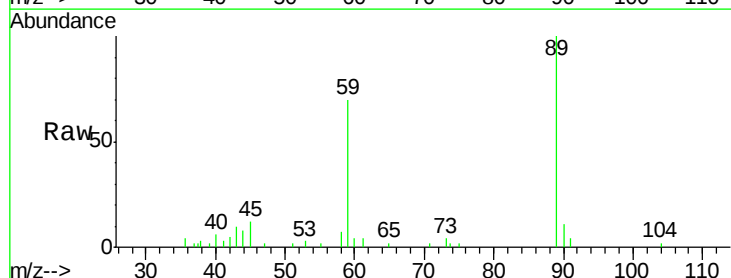
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB01-190402

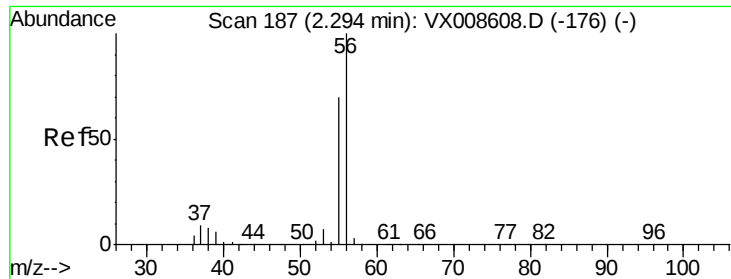
Tgt Ion: 142 Resp: 457
Ion Ratio Lower Upper
142 100
127 31.1 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 6.546 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

Tgt Ion: 59 Resp: 4934
Ion Ratio Lower Upper
59 100
57 0.4 8.3 12.5#





#13

Acrolein

Concen: 0.241 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

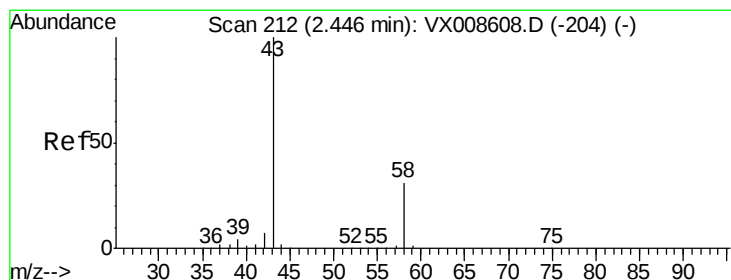
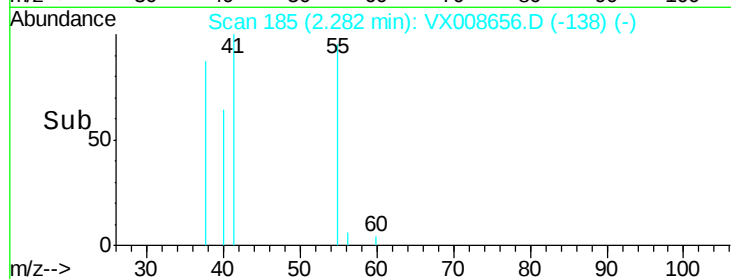
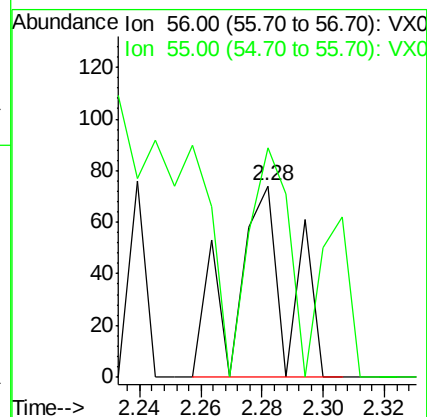
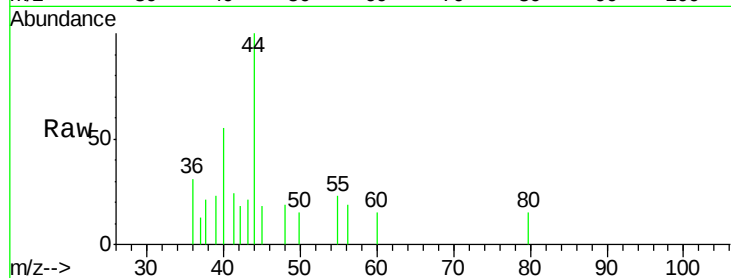
Z3-TB01-190402

Tgt Ion: 56 Resp: 90

Ion Ratio Lower Upper

56 100

55 87.8 58.0 87.0#



#16

Acetone

Concen: 3.250 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008656.D

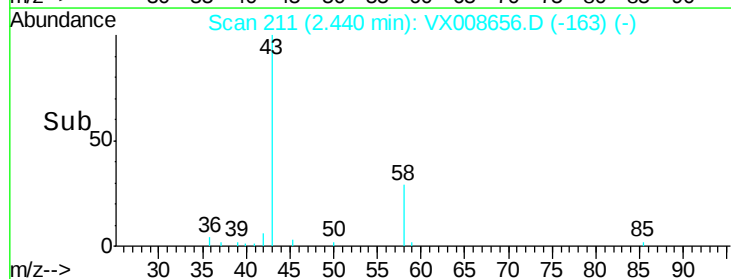
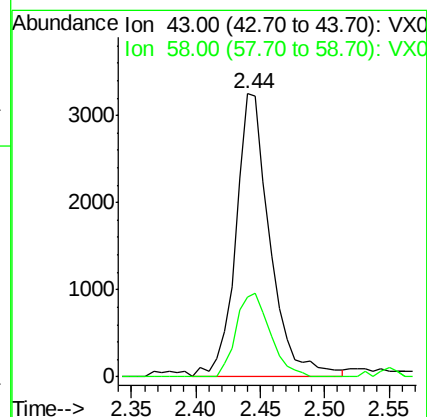
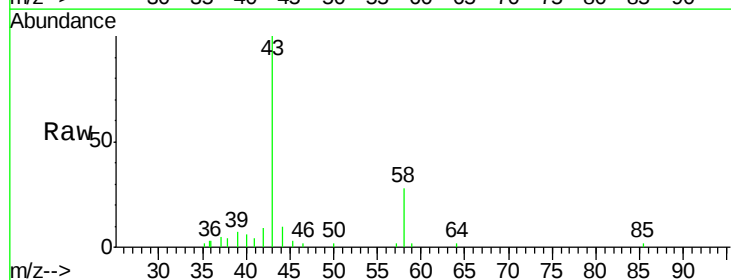
Acq: 04 Apr 2019 23:53

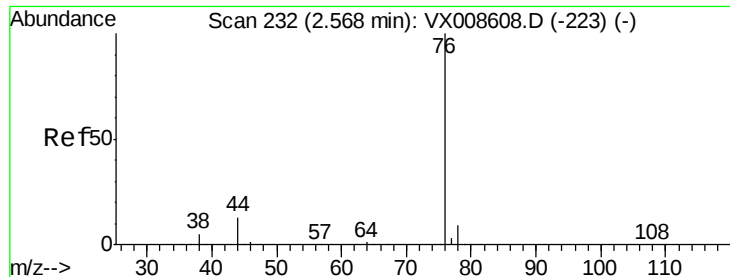
Tgt Ion: 43 Resp: 6027

Ion Ratio Lower Upper

43 100

58 28.1 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

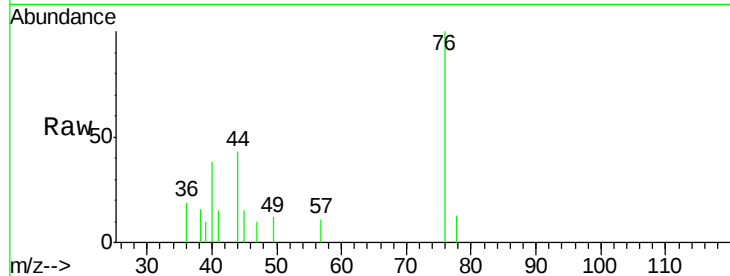
Z3-TB01-190402

Tgt Ion: 76 Resp: 947

Ion Ratio Lower Upper

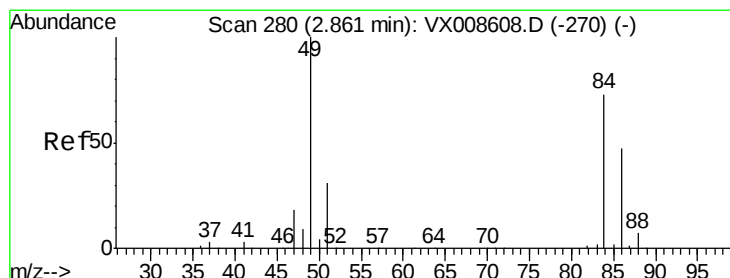
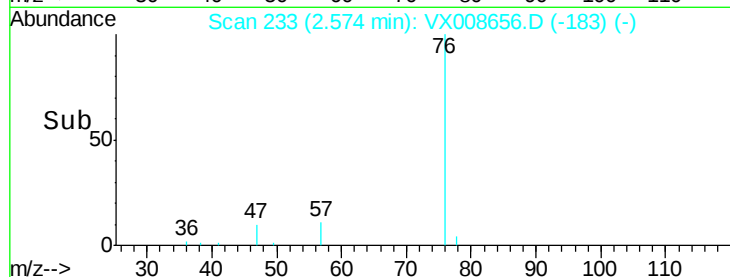
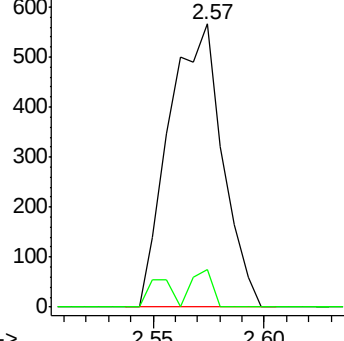
76 100

78 13.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.284 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Tgt Ion: 84 Resp: 883

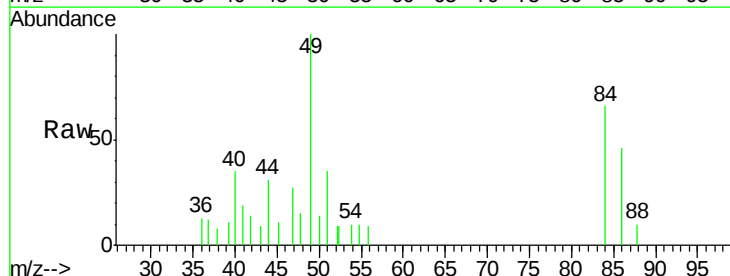
Ion Ratio Lower Upper

84 100

49 150.8 109.7 164.5

51 53.5 33.6 50.4#

86 69.5 51.4 77.2

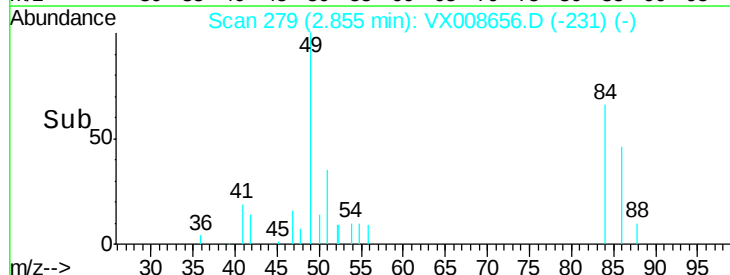
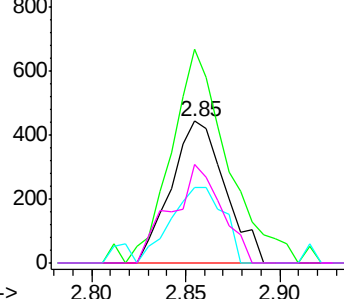


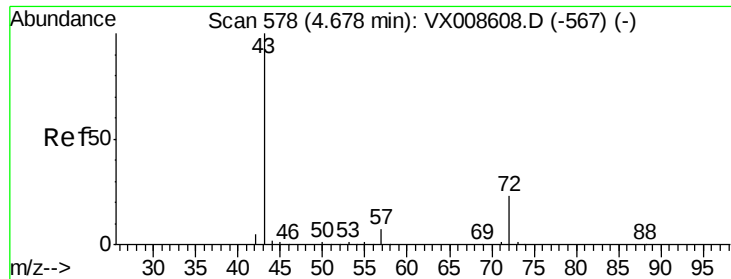
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.516 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

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ClientSampleId :

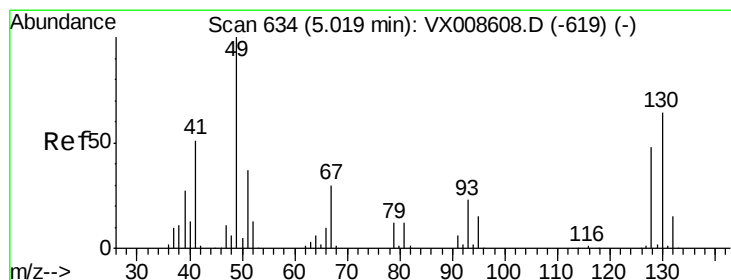
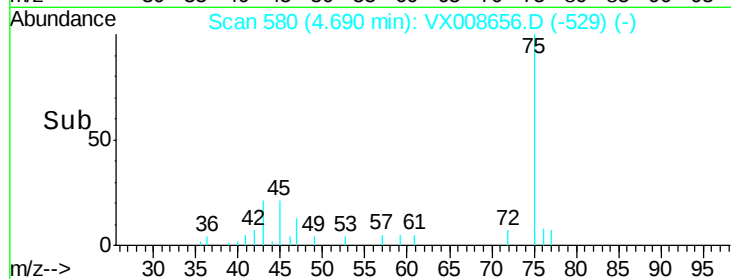
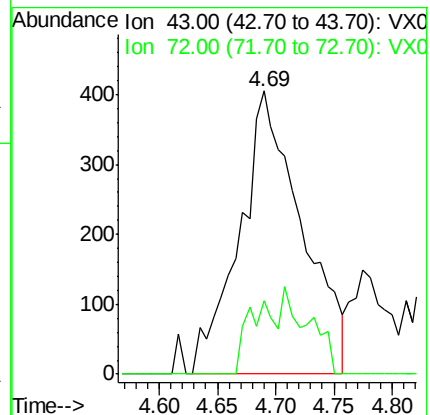
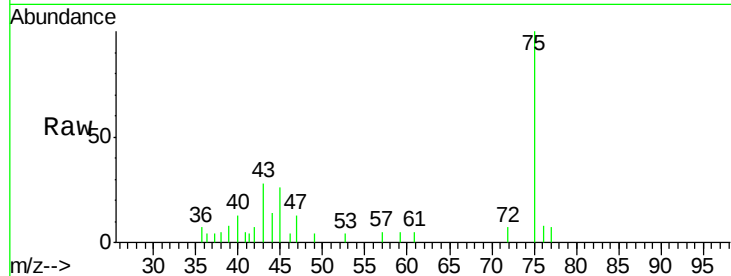
Z3-TB01-190402

Tgt Ion: 43 Resp: 1513

Ion Ratio Lower Upper

43 100

72 25.9 18.2 27.4



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

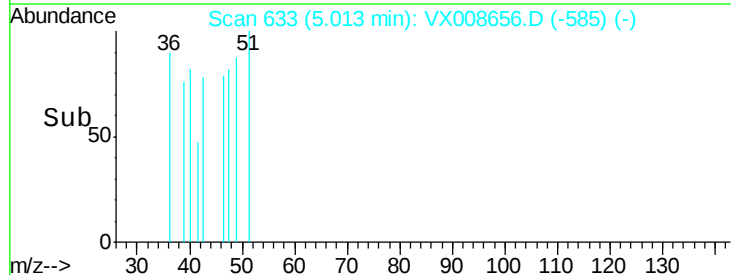
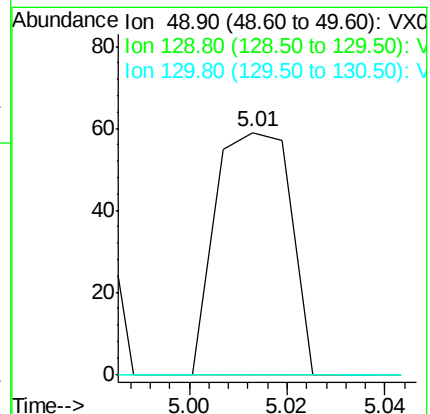
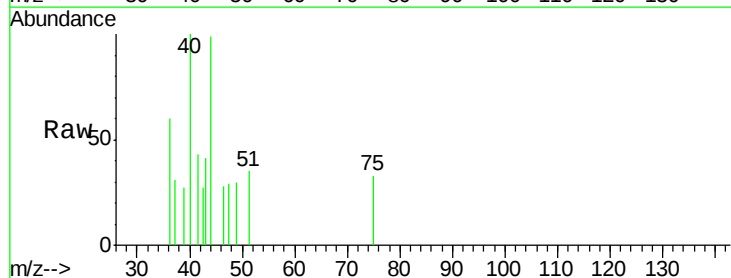
Tgt Ion: 49 Resp: 63

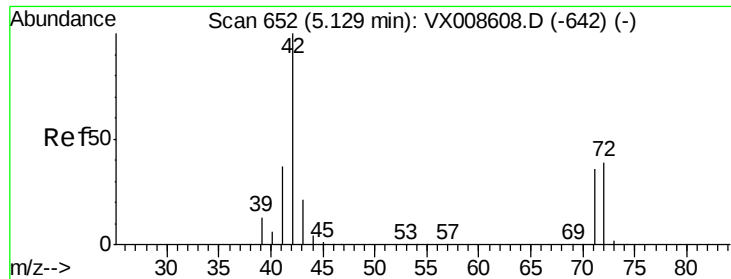
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 49.3 73.9#





#29

Tetrahydrofuran

Concen: 0.813 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

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Z3-TB01-190402

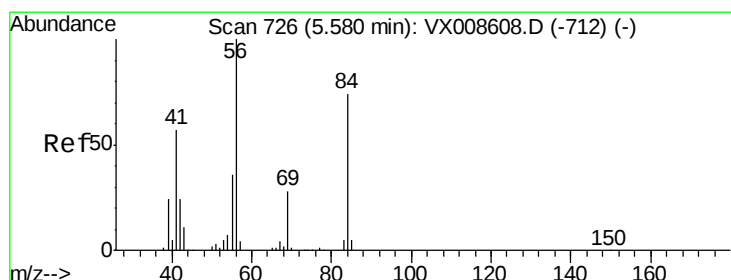
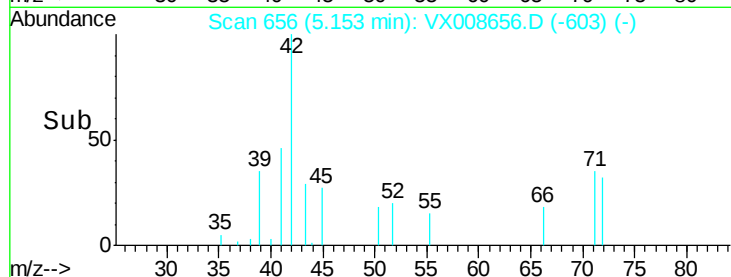
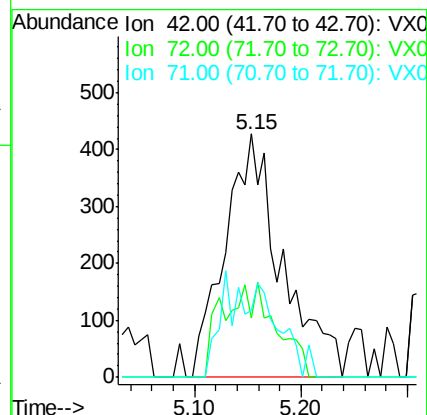
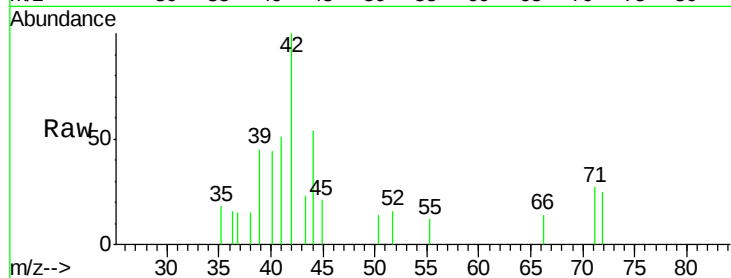
Tgt Ion: 42 Resp: 1582

Ion Ratio Lower Upper

42 100

72 25.3 30.5 45.7#

71 17.9 28.6 43.0#



#31

Cyclohexane

Concen: 0.900 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

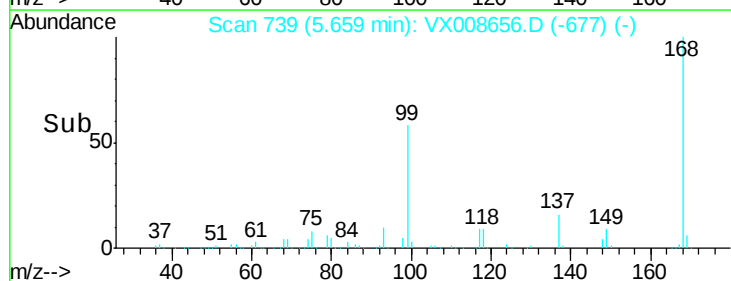
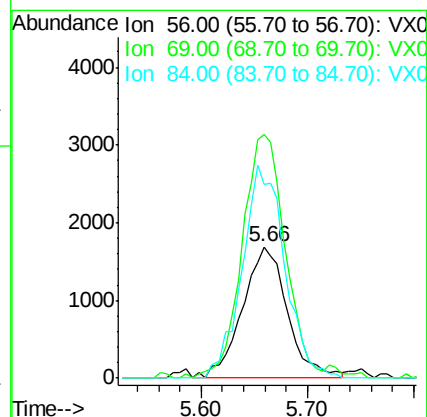
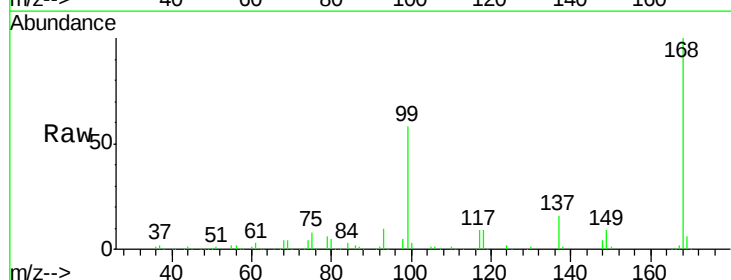
Tgt Ion: 56 Resp: 5005

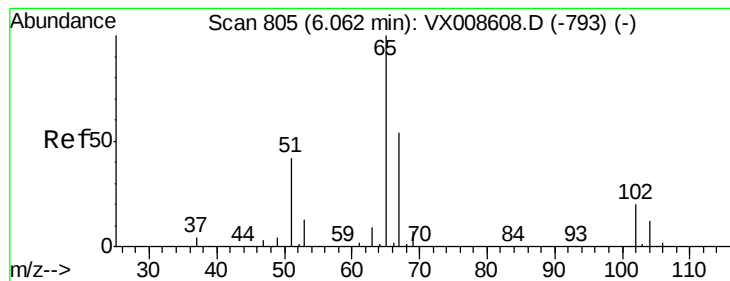
Ion Ratio Lower Upper

56 100

69 185.8 22.6 33.8#

84 147.4 59.3 88.9#





#33

1,2-Dichloroethane-d4

Concen: 46.998 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

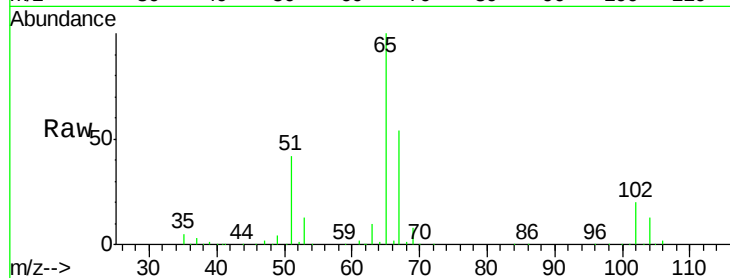
Z3-TB01-190402

Tgt Ion: 65 Resp: 151324

Ion Ratio Lower Upper

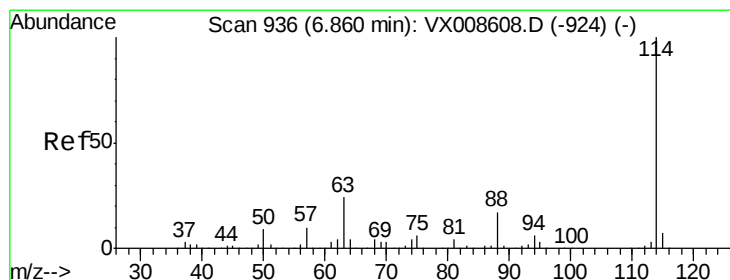
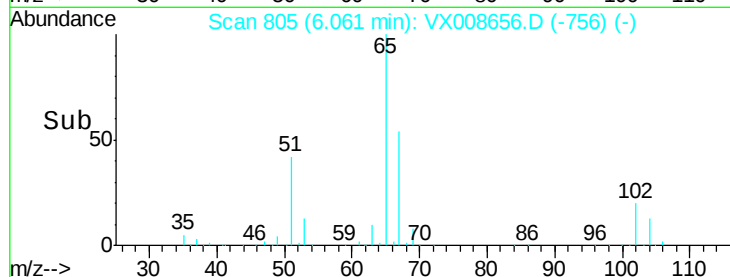
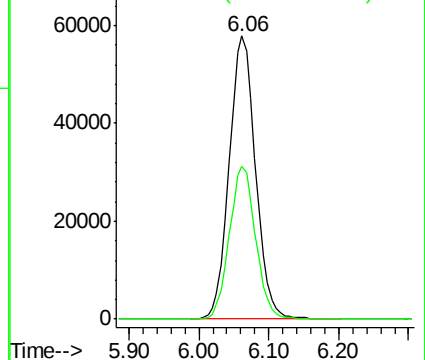
65 100

67 53.8 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

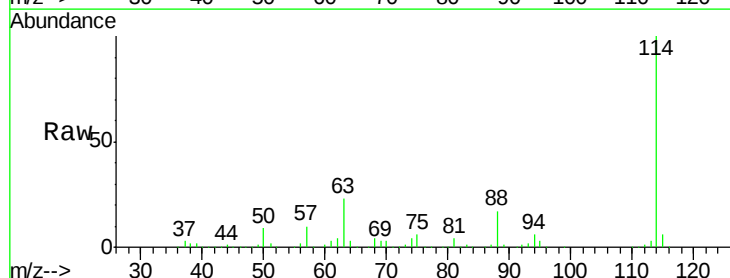
Tgt Ion: 114 Resp: 365285

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.2

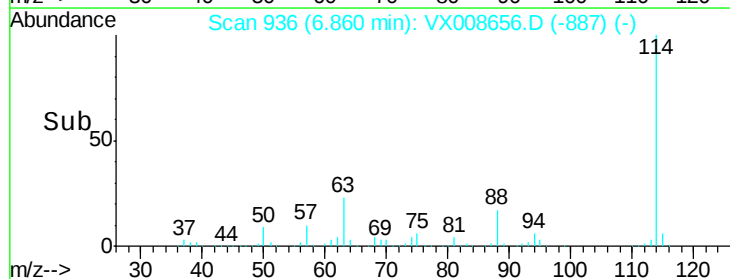
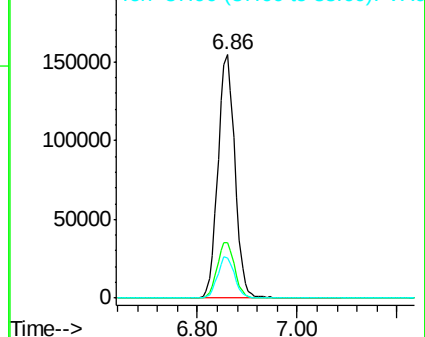
88 16.6 0.0 34.0

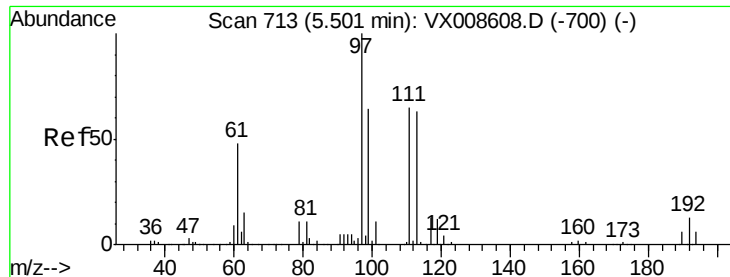


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.155 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB01-190402

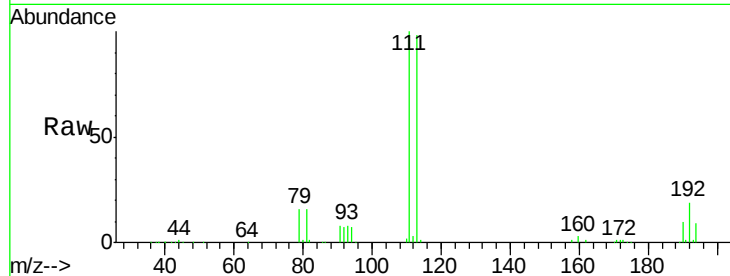
Tgt Ion:113 Resp: 110131

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

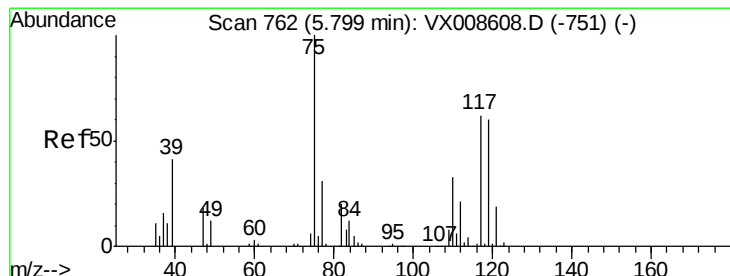
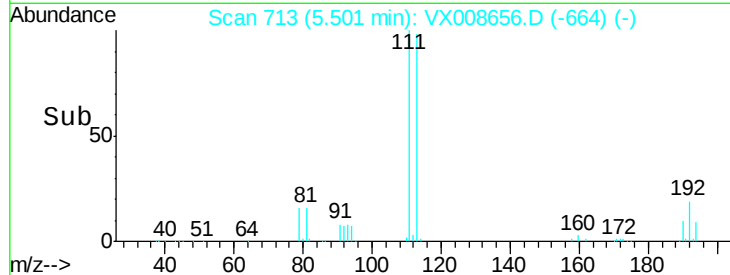
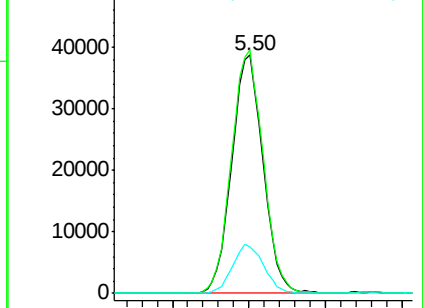
192 20.5 16.1 24.1



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: 4.518 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

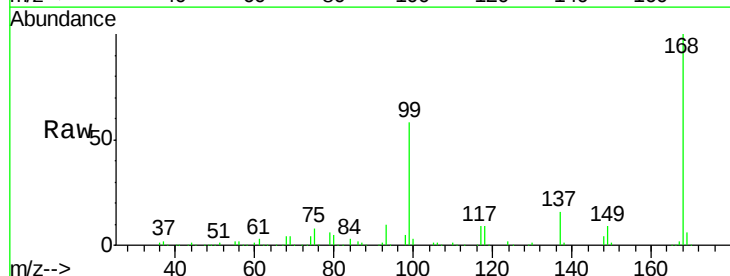
Tgt Ion: 75 Resp: 18041

Ion Ratio Lower Upper

75 100

110 8.0 16.4 49.2#

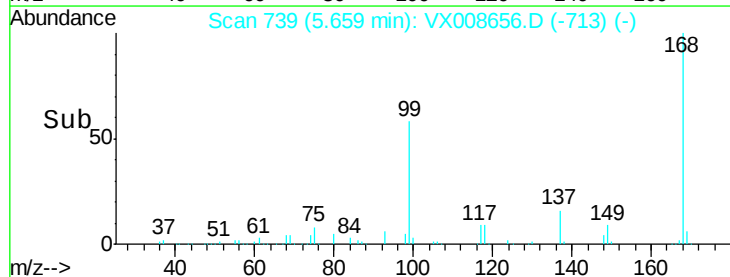
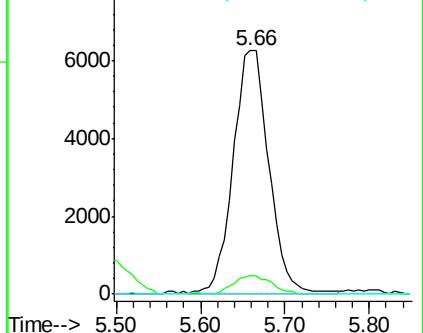
77 0.0 24.7 37.1#

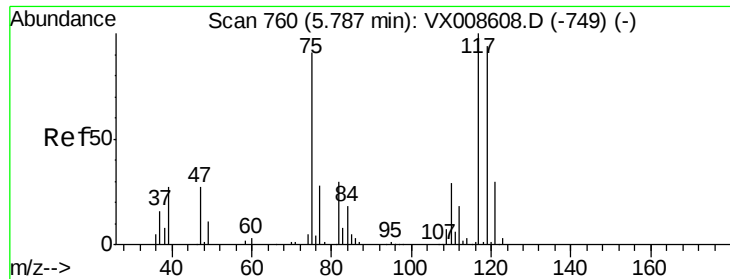


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

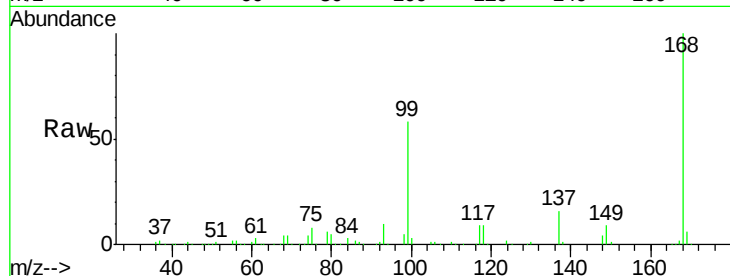




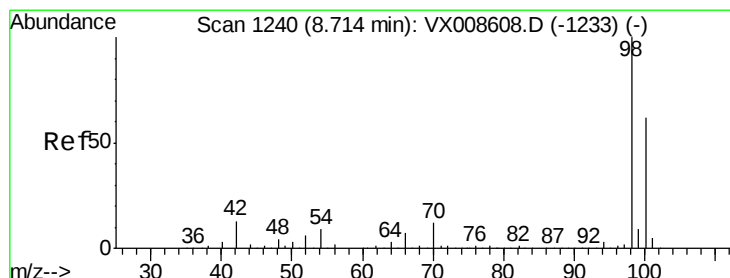
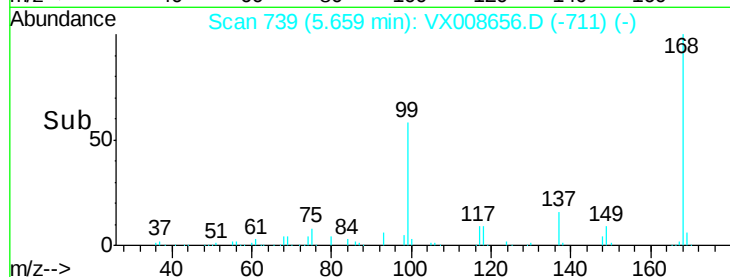
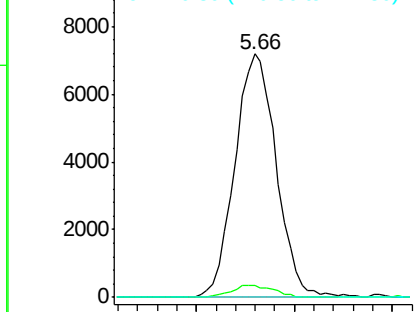
#38
Carbon Tetrachloride
Concen: 6.361 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

Instrument :
MSVOA_X
ClientSampleId :
Z3-TB01-190402

Tgt Ion:117 Resp: 21021
Ion Ratio Lower Upper
117 100
119 4.8 75.0 112.6#
121 0.0 24.3 36.5#

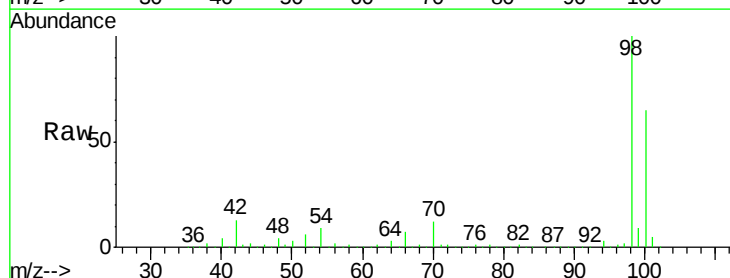


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

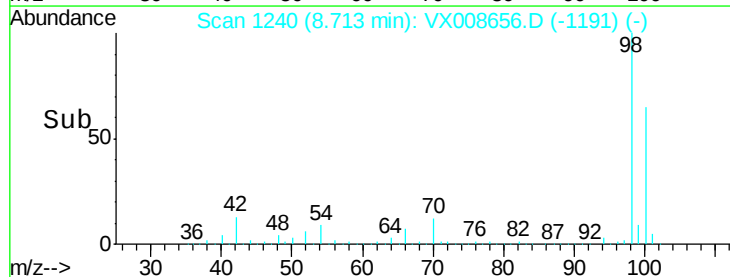
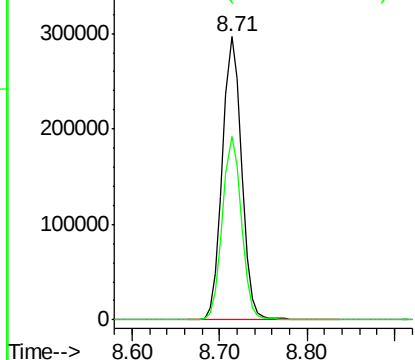


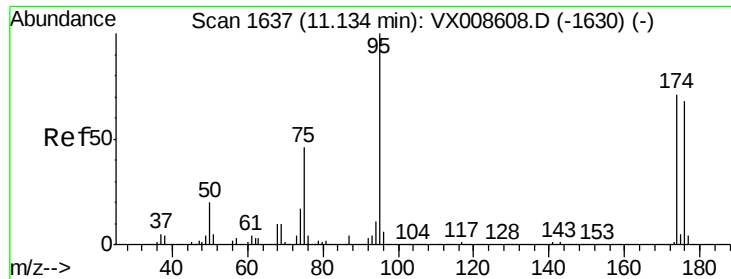
#50
Toluene-d8
Concen: 48.828 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

Tgt Ion: 98 Resp: 454070
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

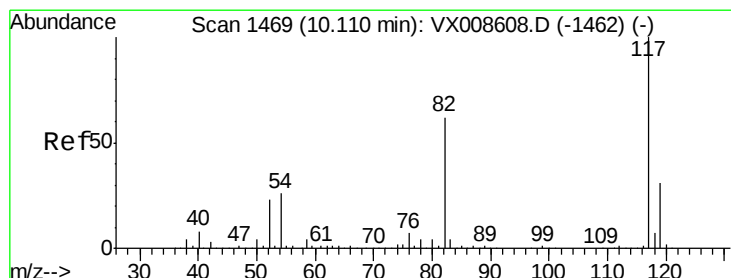
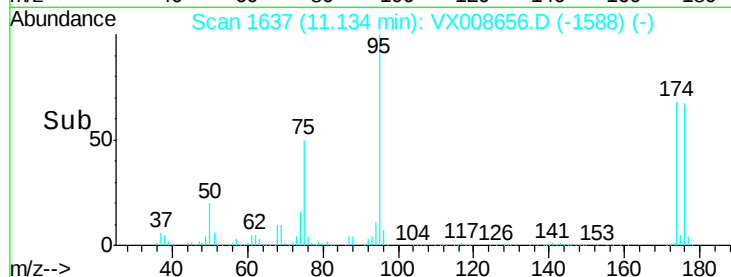
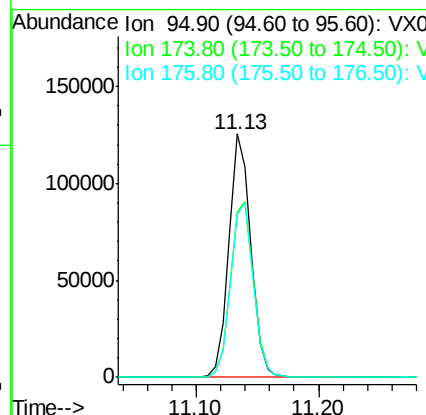
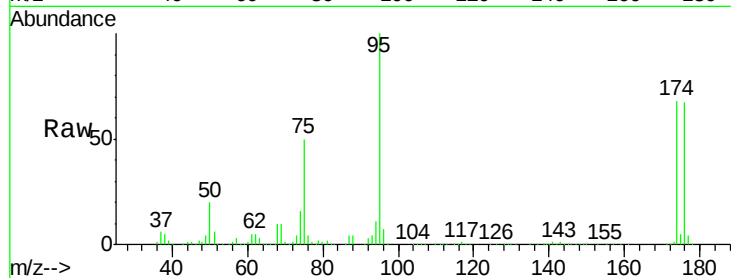




#62
4-Bromofluorobenzene
Concen: 46.889 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

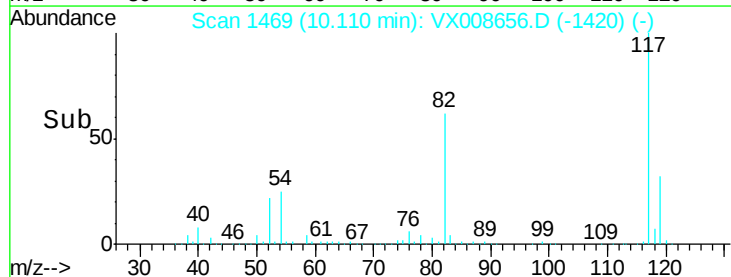
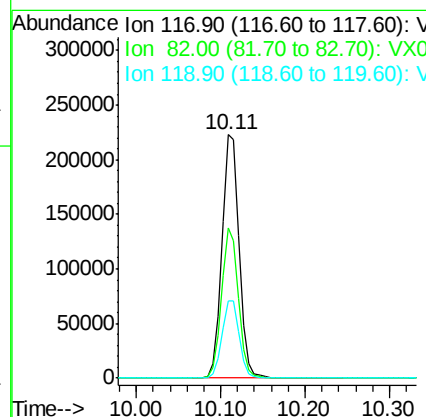
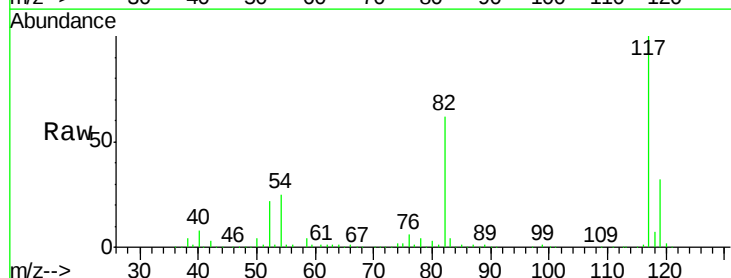
Instrument :
MSVOA_X
ClientSampleId :
Z3-TB01-190402

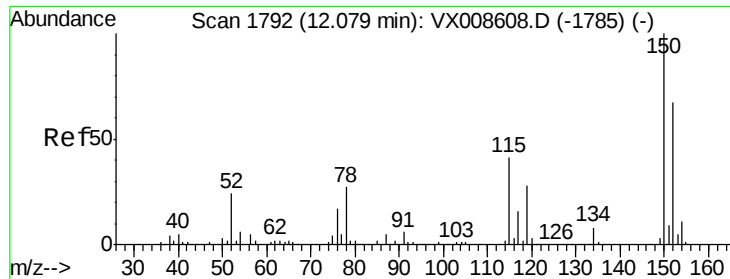
Tgt Ion: 95 Resp: 154625
Ion Ratio Lower Upper
95 100
174 75.9 0.0 151.8
176 74.3 0.0 145.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008656.D
Acq: 04 Apr 2019 23:53

Tgt Ion: 117 Resp: 315538
Ion Ratio Lower Upper
117 100
82 61.8 49.6 74.4
119 31.8 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB01-190402

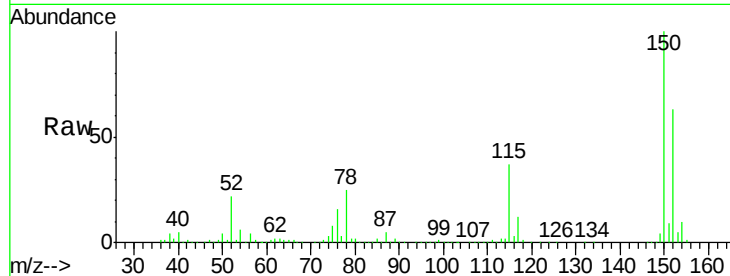
Tgt Ion:152 Resp: 131254

Ion Ratio Lower Upper

152 100

115 60.2 43.5 130.5

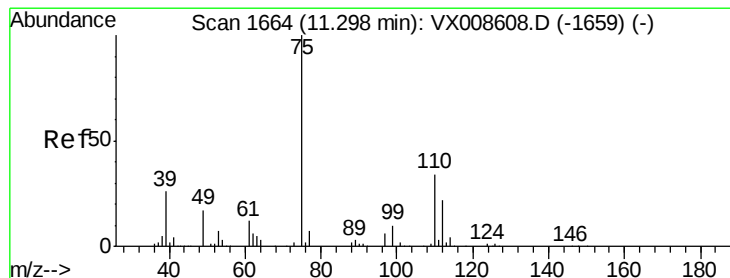
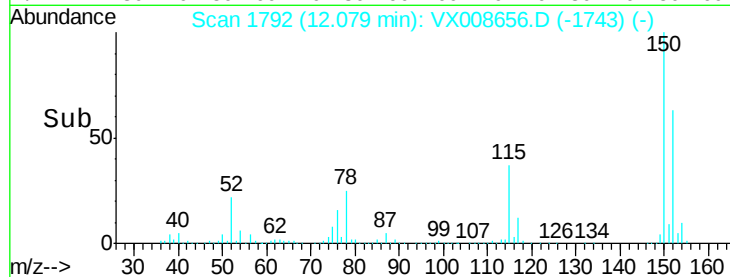
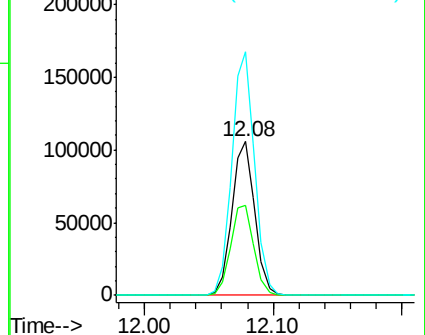
150 158.0 0.0 348.8



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: 21.658 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008656.D

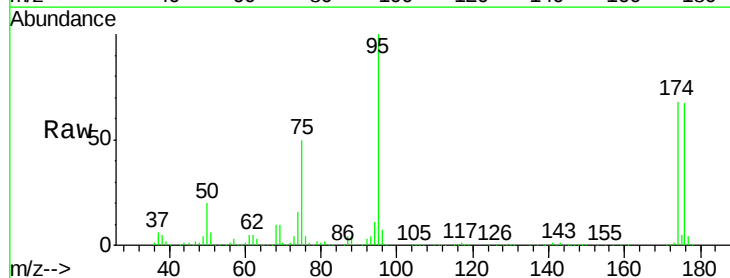
Acq: 04 Apr 2019 23:53

Tgt Ion: 75 Resp: 78092

Ion Ratio Lower Upper

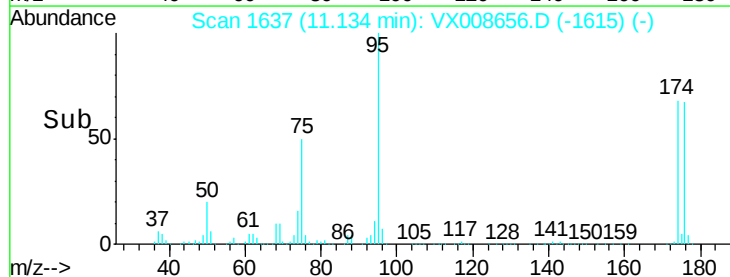
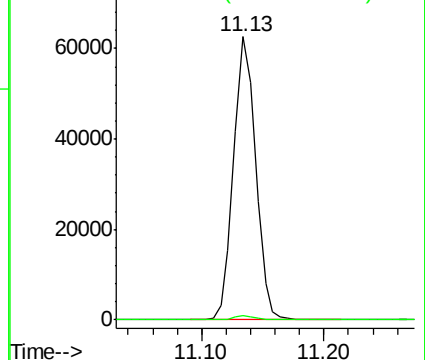
75 100

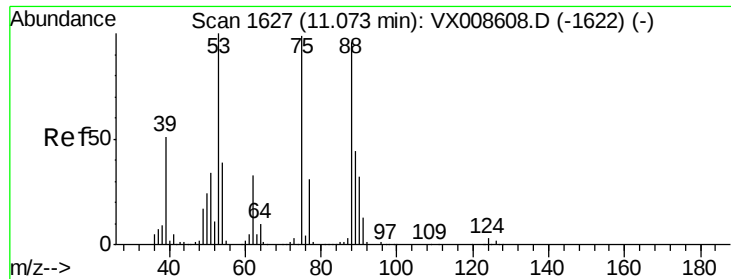
77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.702 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008656.D

Acq: 04 Apr 2019 23:53

Instrument :

MSVOA_X

ClientSampleId :

Z3-TB01-190402

Tgt Ion: 75 Resp: 78092

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#

