

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002272.D
 Acq On : 04 Jun 2018 20:34
 Operator : JC/MD
 Sample : J3234-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 05:01:56 2018
 Quant Method : Y:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	269843	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	397231	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	376088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221202	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	191536	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
35) Dibromofluoromethane	5.51	113	139228	44.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.14%	
50) Toluene-d8	8.72	98	573779	47.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.84%	
62) 4-Bromofluorobenzene	11.14	95	212281	45.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.96%	

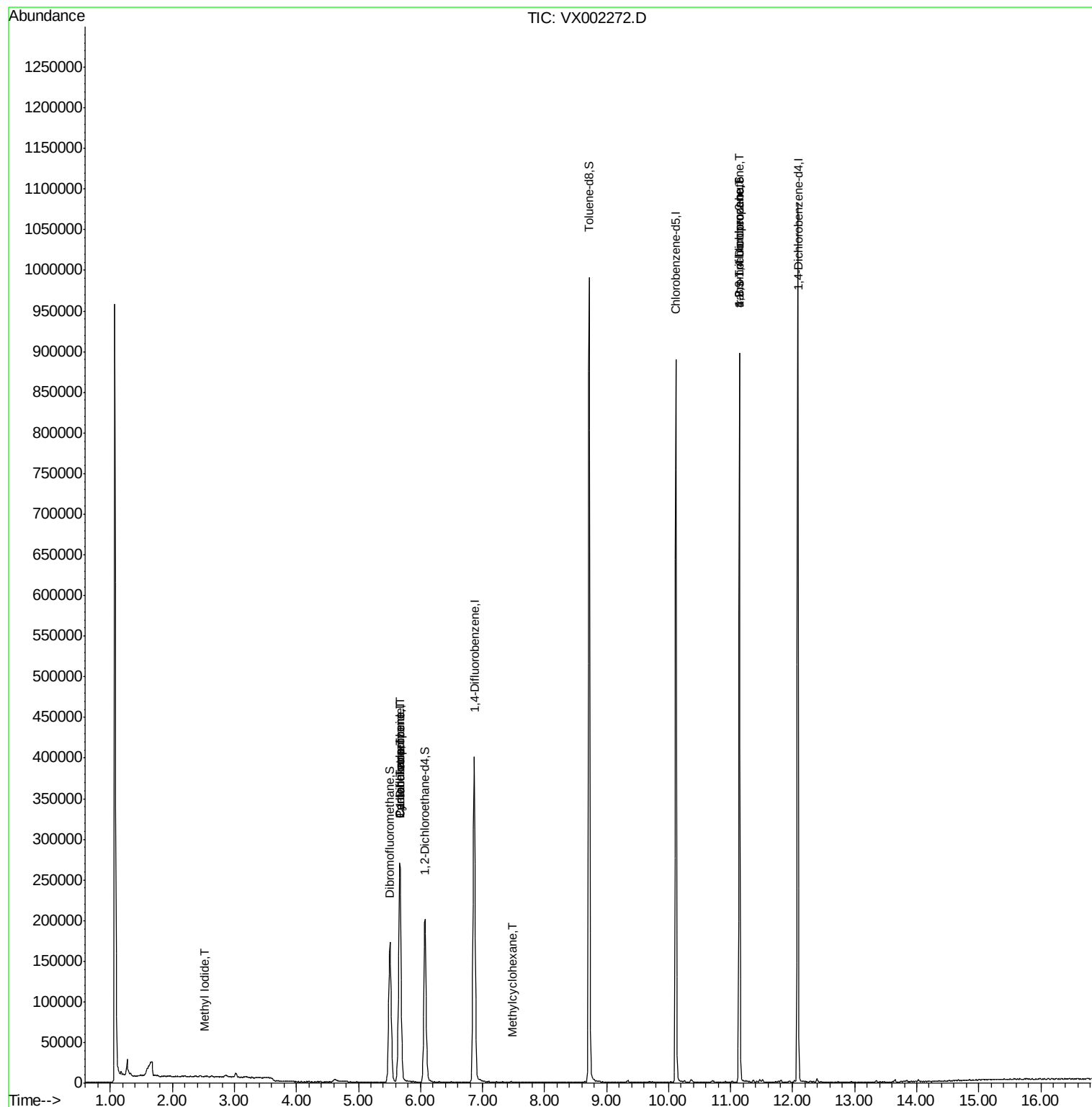
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	711	Below Cal		89
5) Bromomethane	1.64	94	1690	Below Cal		85
8) Diethyl Ether	2.19	74	111	Below Cal	#	1
10) Methyl Iodide	2.51	142	1585	0.39	ug/l	95
11) Tert butyl alcohol	3.10	59	365	Below Cal	#	73
13) Acrolein	2.31	56	152	Below Cal	#	59
15) Acrylonitrile	3.15	53	214	Below Cal	#	82
16) Acetone	2.45	43	1774	Below Cal		91
18) Methyl Acetate	2.78	43	361	Below Cal	#	62
19) Methyl tert-butyl Ether	3.21	73	594	Below Cal	#	1
20) Methylene Chloride	2.85	84	1017	Below Cal	#	81
22) Diisopropyl ether	3.87	45	121	Below Cal	#	49
28) Bromochloromethane	5.03	49	141	Below Cal	#	29
31) Cyclohexane	5.67	56	5964	1.22	ug/l	18
36) 1,1-Dichloropropene	5.67	75	19242	4.61	ug/l	50
38) Carbon Tetrachloride	5.67	117	24489	5.61	ug/l	15
39) Methylcyclohexane	7.48	83	150	0.29	ug/l	37
76) 1,2,3-Trichloropropane	11.14	75	112966	23.27	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	112966	81.58	ug/l	6

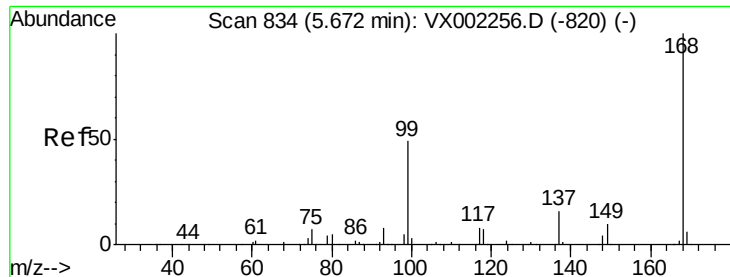
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 05 03:22:35 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

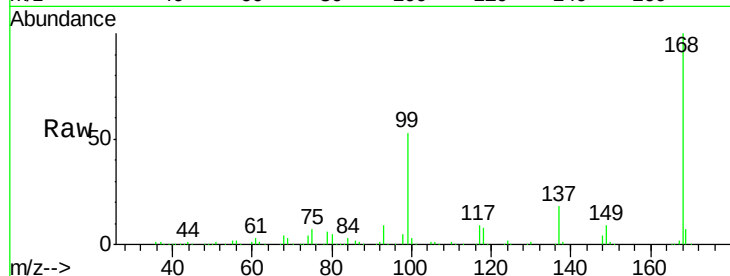
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 269843

Ion Ratio Lower Upper

168 100

99 53.1 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

100000

80000

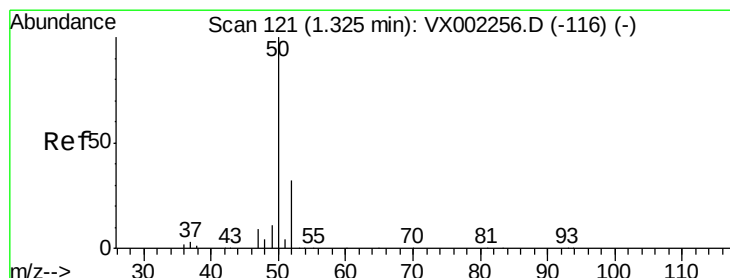
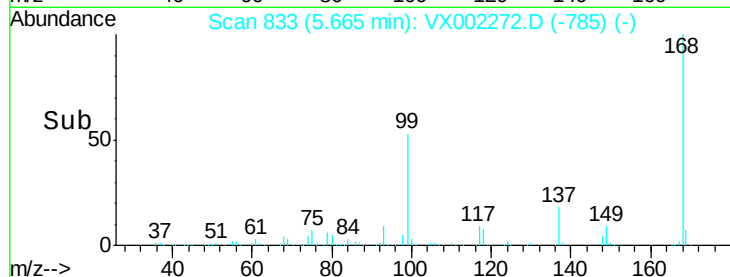
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002272.D

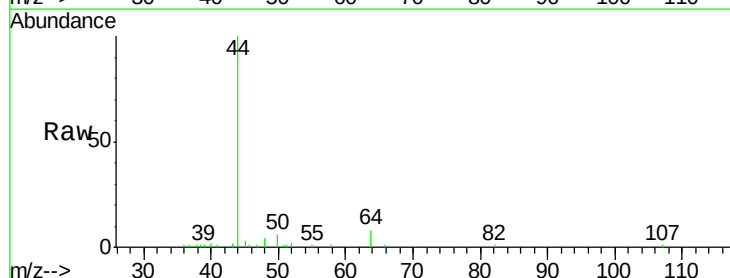
Acq: 04 Jun 2018 20:34

Tgt Ion: 50 Resp: 711

Ion Ratio Lower Upper

50 100

52 38.3 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

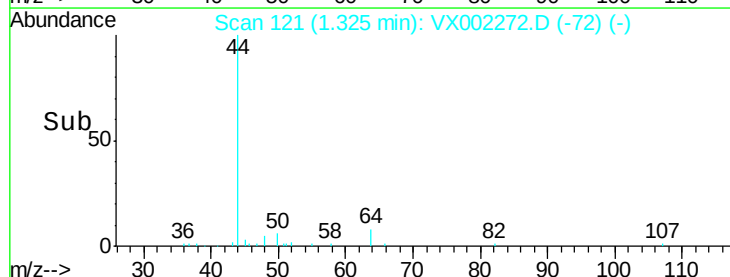
300

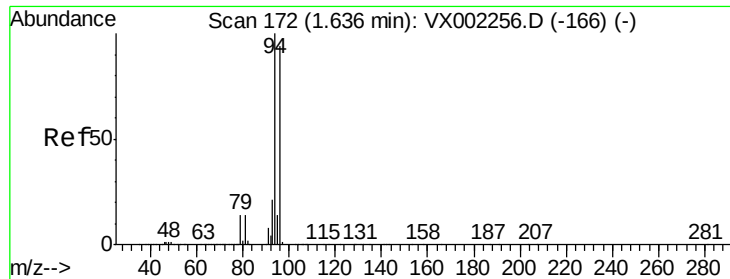
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

Instrument :

MSVOA_X

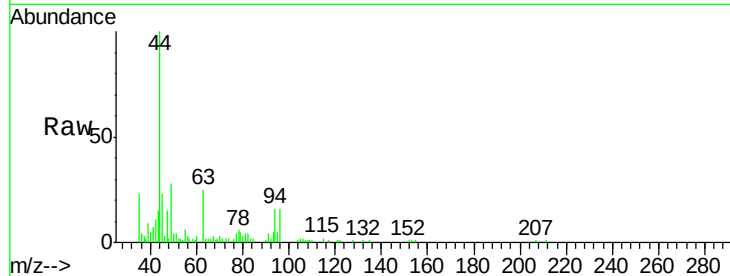
ClientSampled :

Tot Ion: 94 Resp: 1690

Ion Ratio Lower Upper

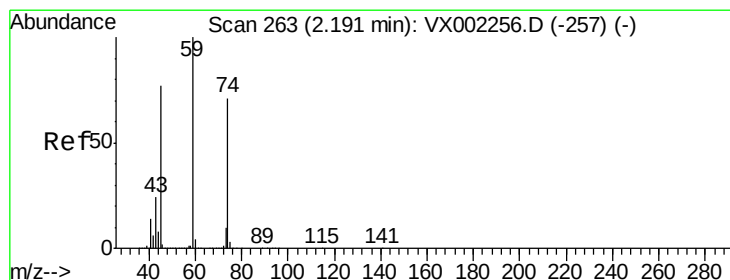
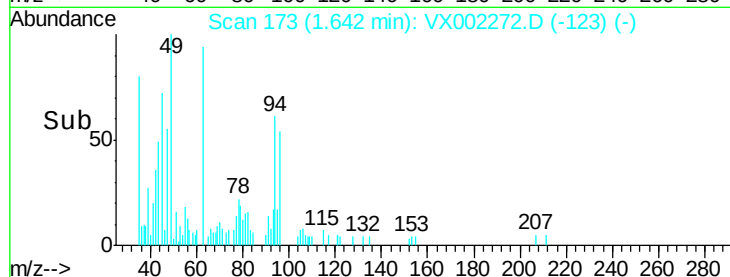
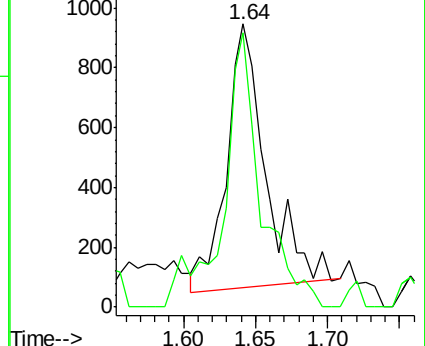
94 100

96 107.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002272.D

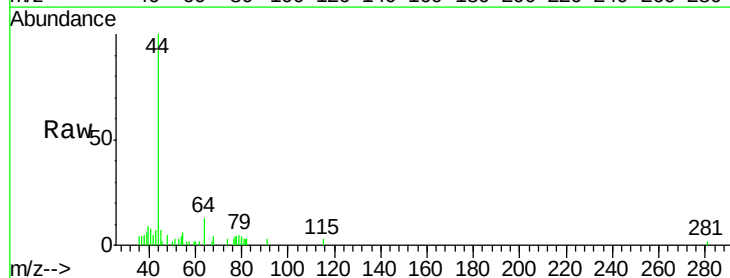
Acq: 04 Jun 2018 20:34

Tgt Ion: 74 Resp: 111

Ion Ratio Lower Upper

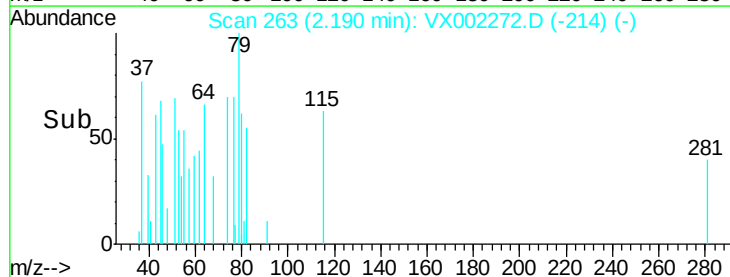
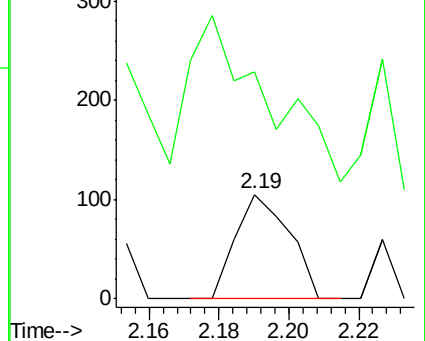
74 100

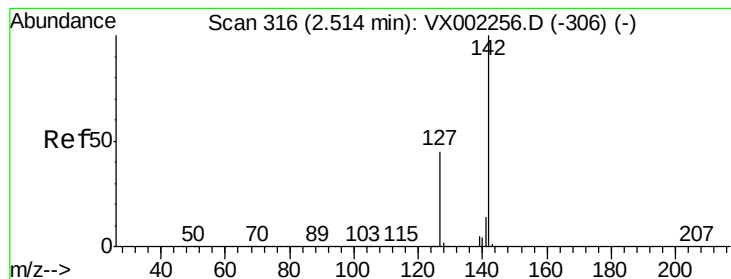
45 228.8 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methvl Iodide

Concen: 0.39 ua/l

RT: 2.51 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

Instrument :

MSVOA_X

ClientSampleId :

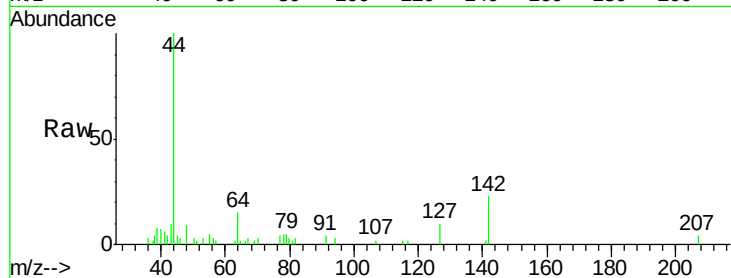
Tot Ion:142 Resp: 1585

Ion Ratio Lower Upper

142 100

127 43.8 36.6 55.0

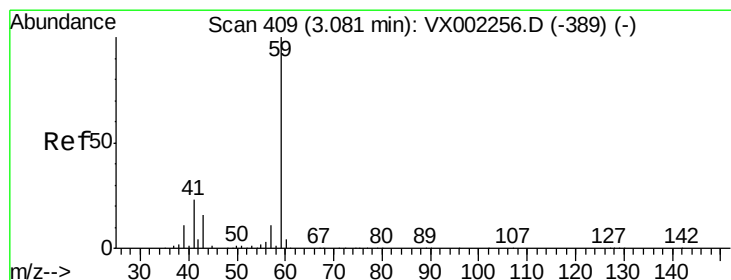
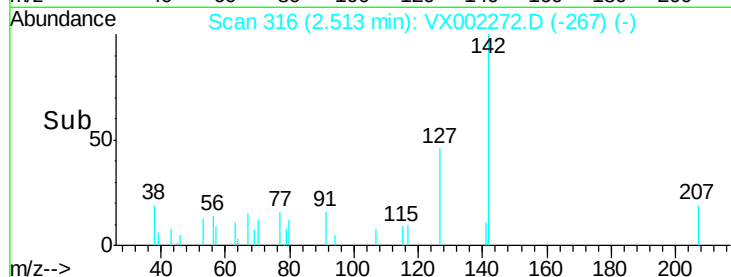
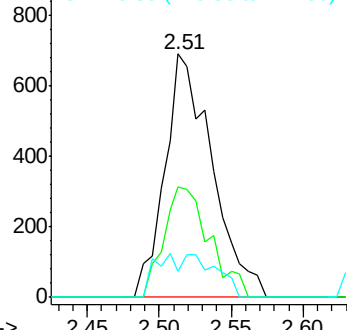
141 9.1 11.3 16.9#



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: Below Cal

RT: 3.10 min Scan# 413

Delta R.T. 0.02 min

Lab File: VX002272.D

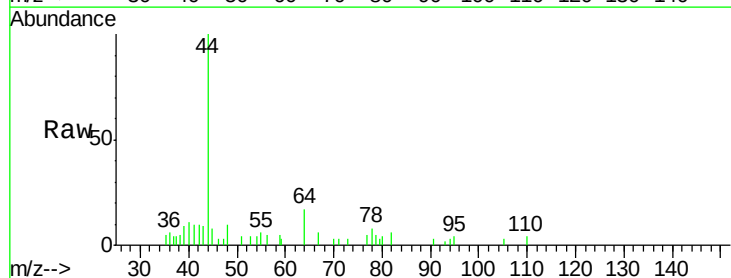
Acq: 04 Jun 2018 20:34

Tgt Ion: 59 Resp: 365

Ion Ratio Lower Upper

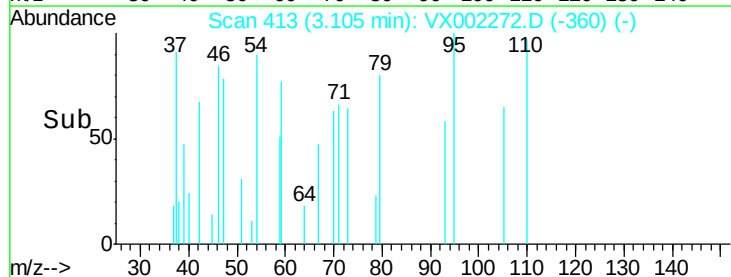
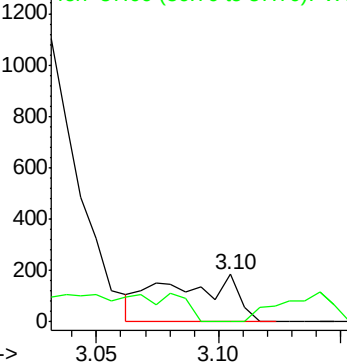
59 100

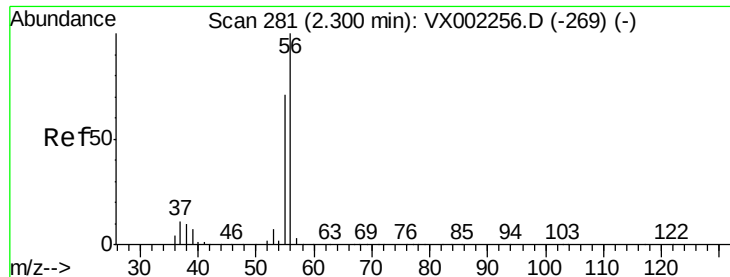
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

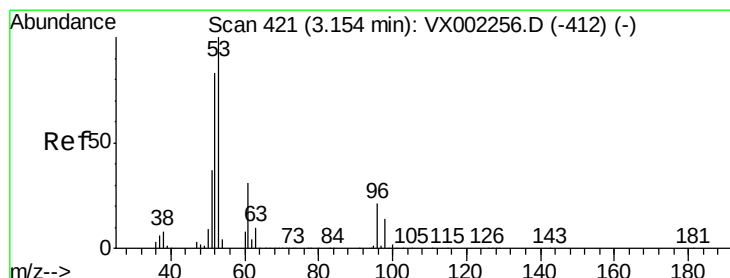
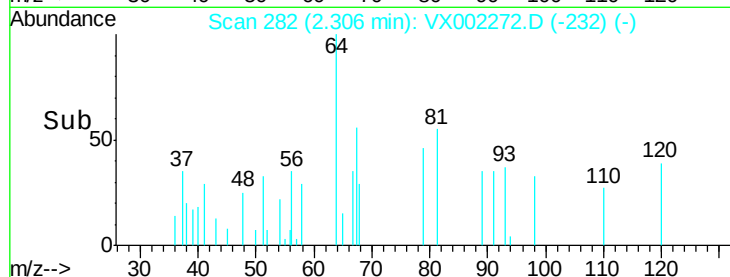
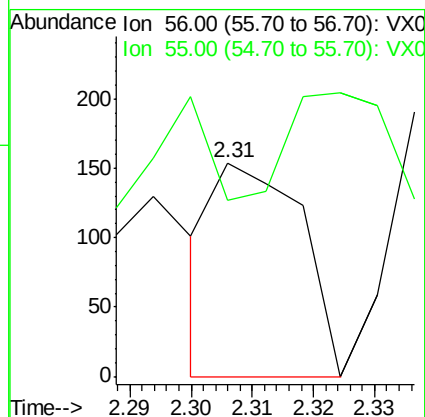
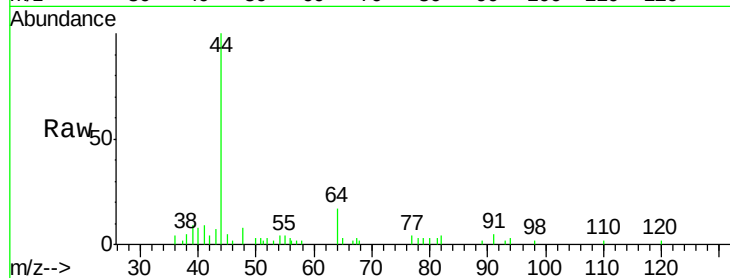
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 152

Ion Ratio Lower Upper

56 100

55 37.5 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

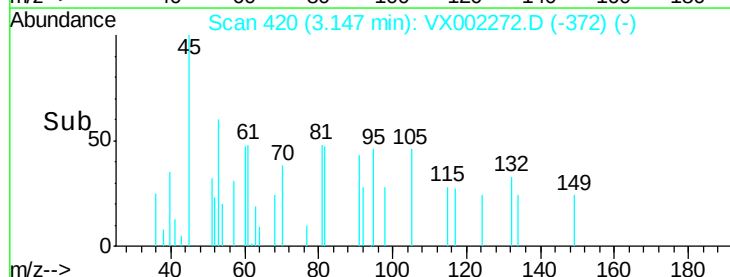
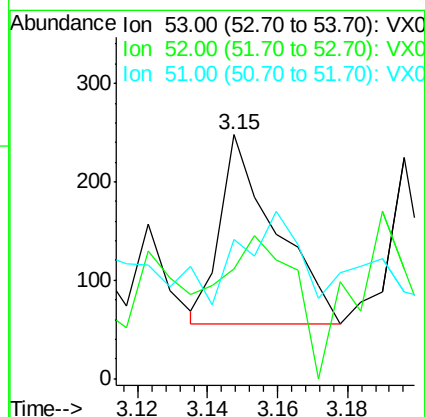
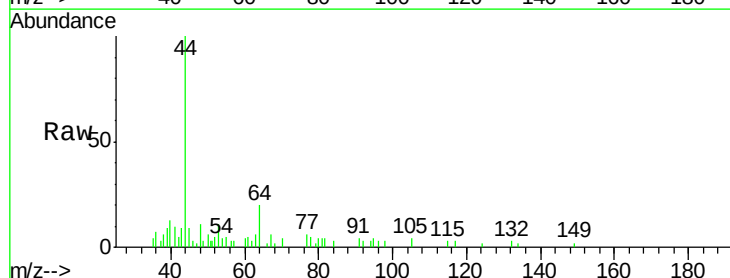
Tgt Ion: 53 Resp: 214

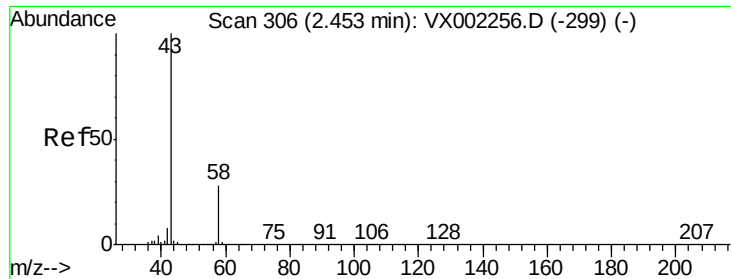
Ion Ratio Lower Upper

53 100

52 99.5 66.7 100.1

51 47.7 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

Instrument :

MSVOA_X

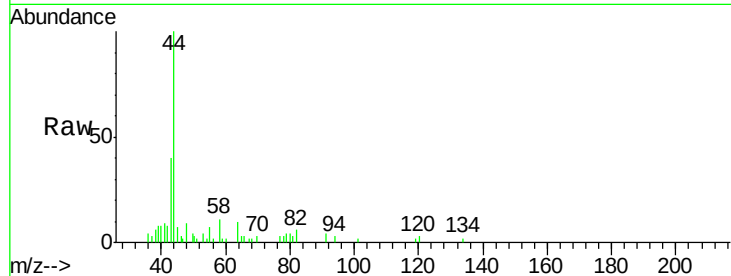
ClientSampled :

Tot Ion: 43 Resp: 1774

Ion Ratio Lower Upper

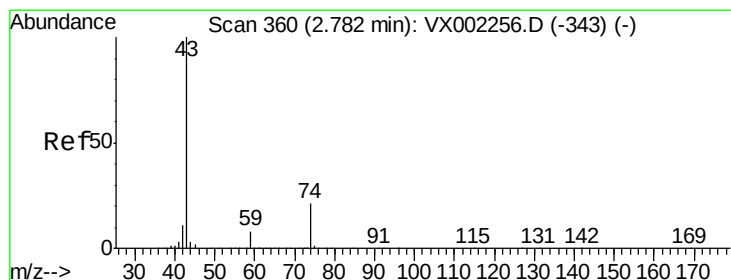
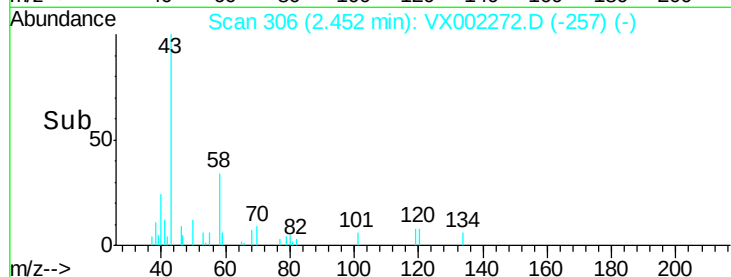
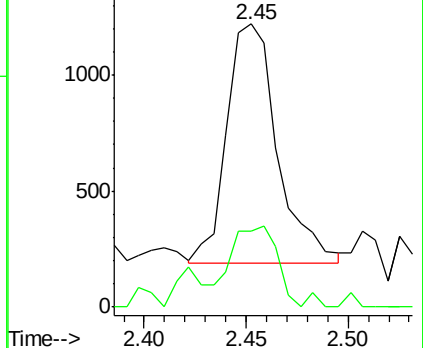
43 100

58 32.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002272.D

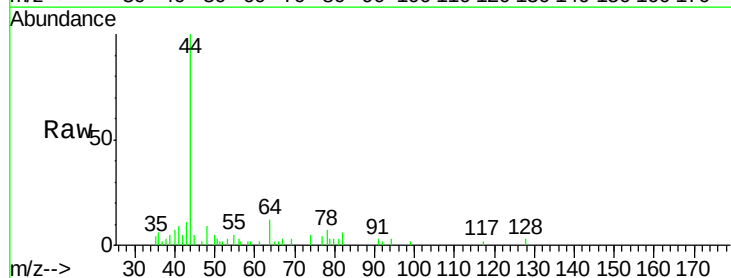
Acq: 04 Jun 2018 20:34

Tgt Ion: 43 Resp: 361

Ion Ratio Lower Upper

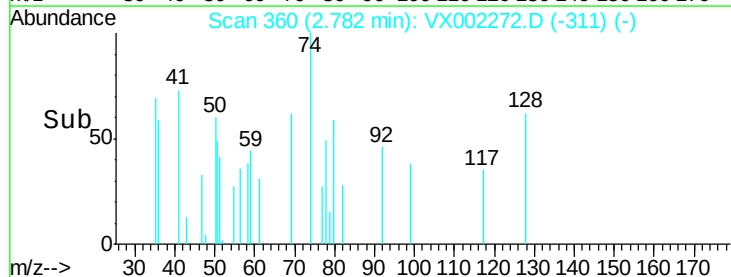
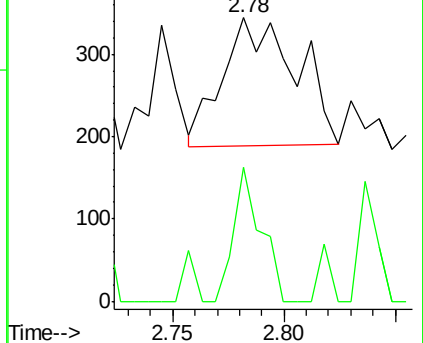
43 100

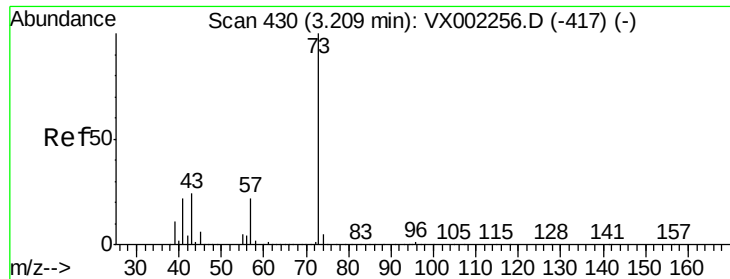
74 38.5 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

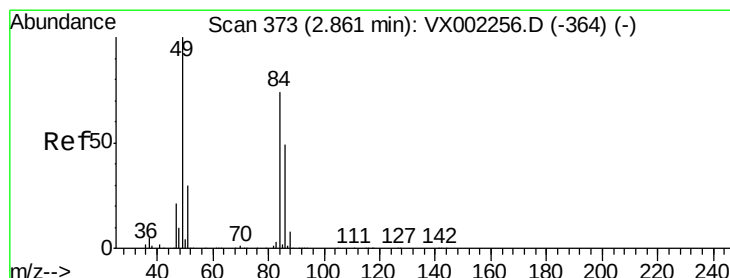
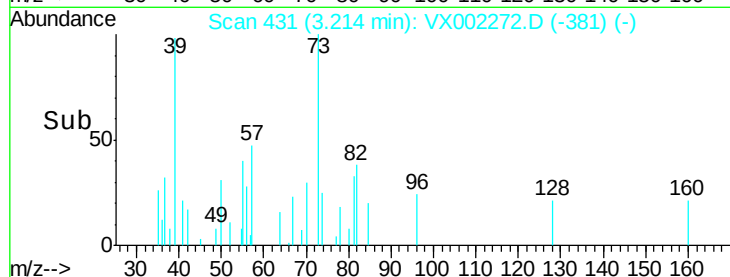
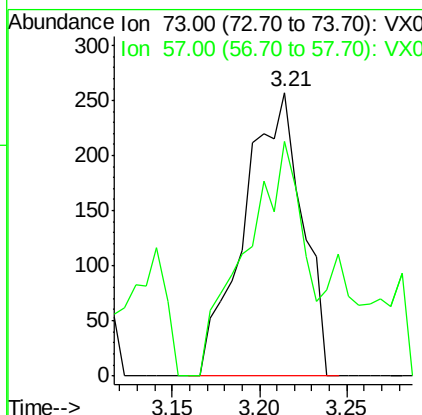
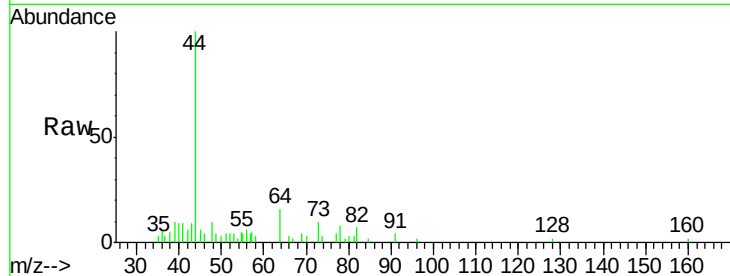




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

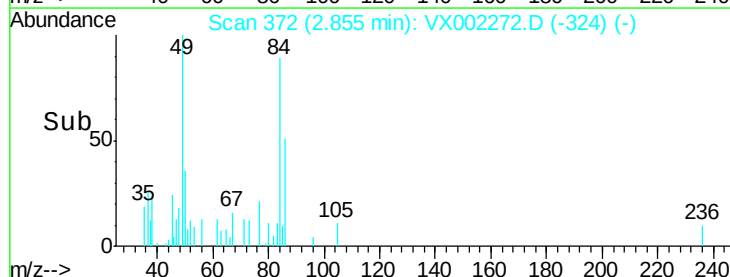
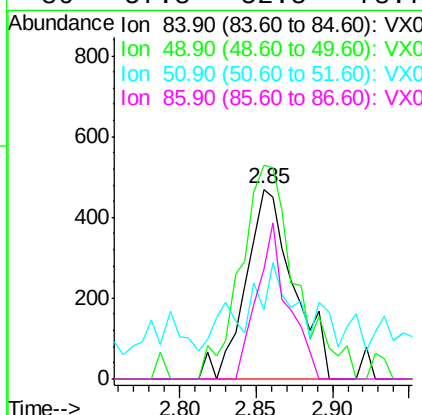
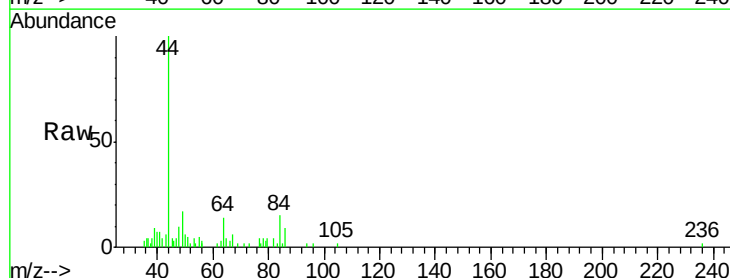
Instrument :
MSVOA_X
ClientSampled :

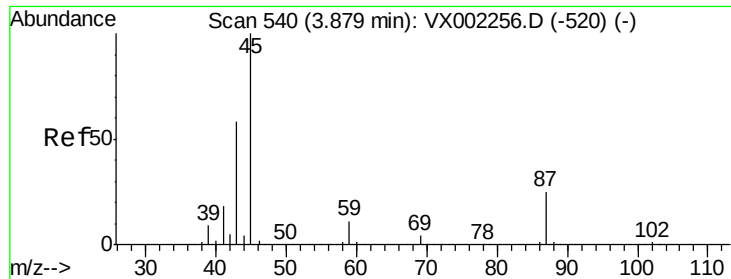
Tot Ion: 73 Resp: 594
Ion Ratio Lower Upper
73 100
57 82.9 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Tgt Ion: 84 Resp: 1017
Ion Ratio Lower Upper
84 100
49 112.8 107.8 161.6
51 19.6 32.8 49.2#
86 57.8 52.5 78.7



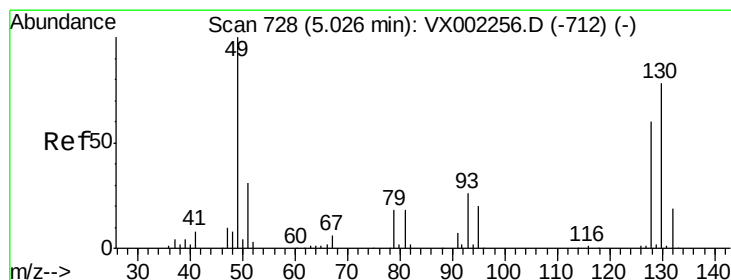
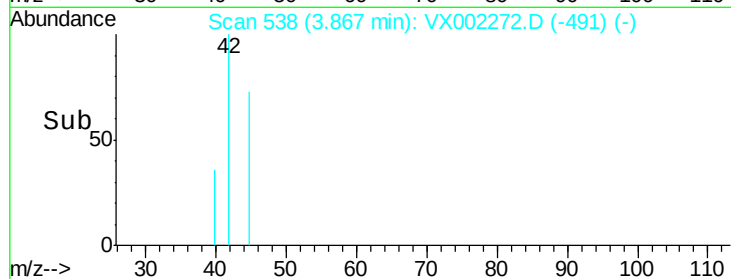
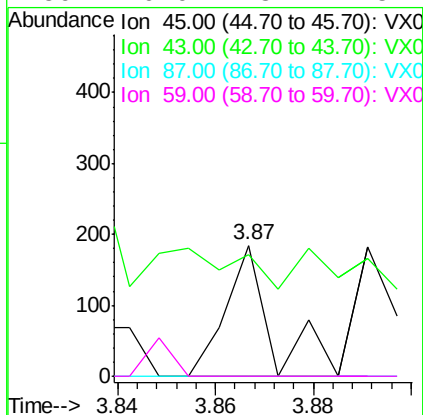
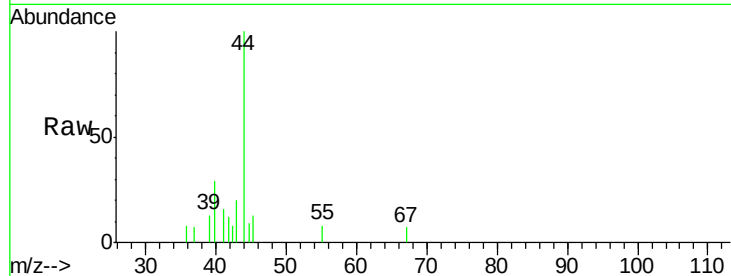


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Instrument :
MSVOA_X
ClientSampled :

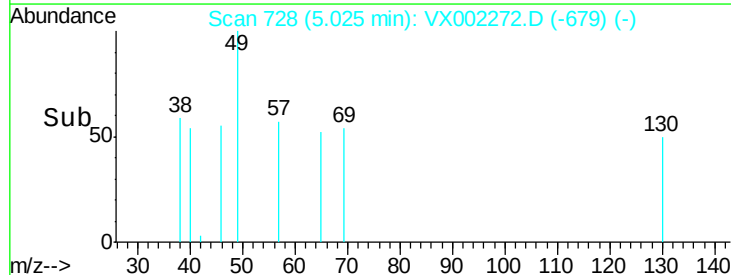
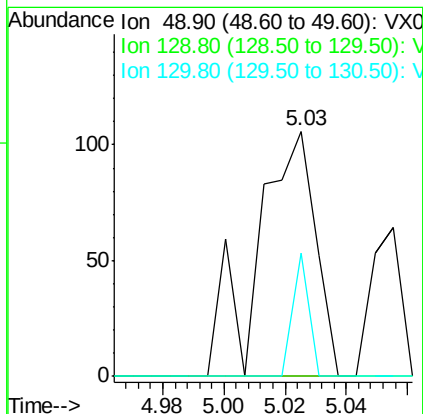
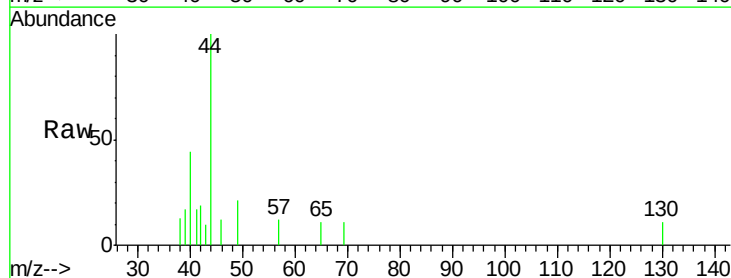
Tot Ion:	45	Resp:	121
Ion	Ratio	Lower	Upper
45	100		
43	17.3	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

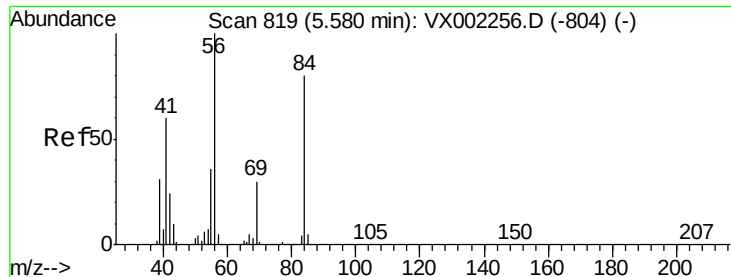


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Tgt Ion:	49	Resp:	141
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	13.5	61.2	91.8#

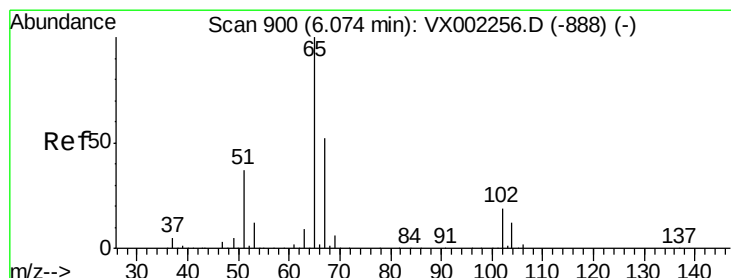
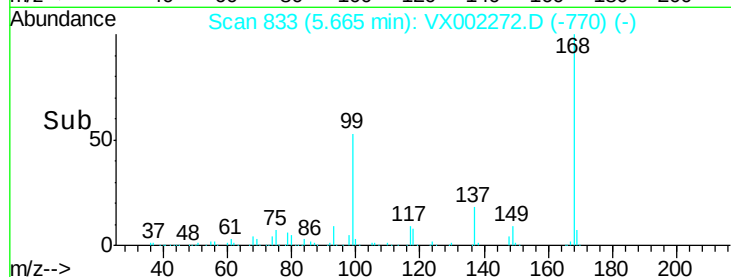
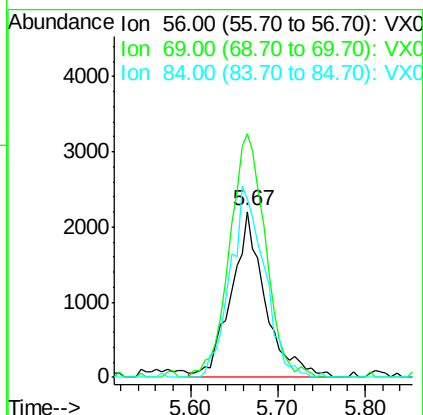
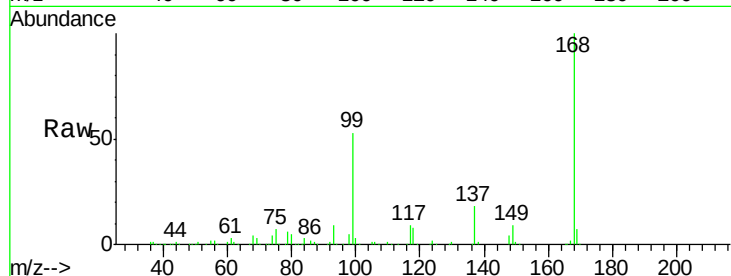




#31
Cyclohexane
Concen: 1.22 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.08 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

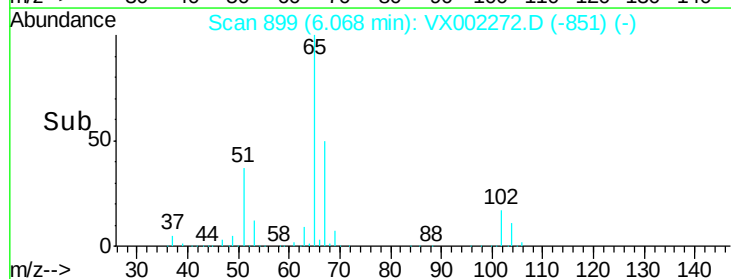
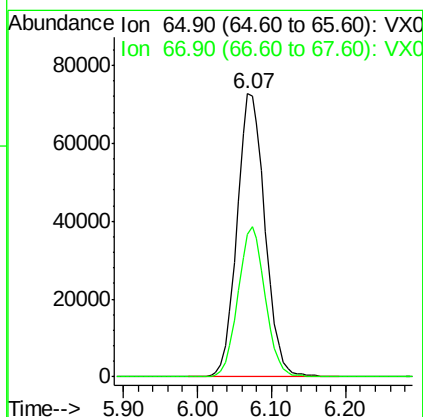
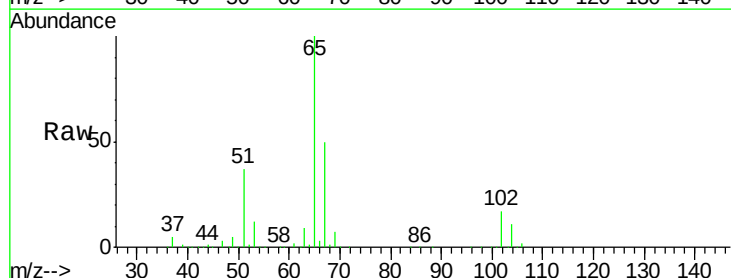
Instrument :
MSVOA_X
ClientSampled :

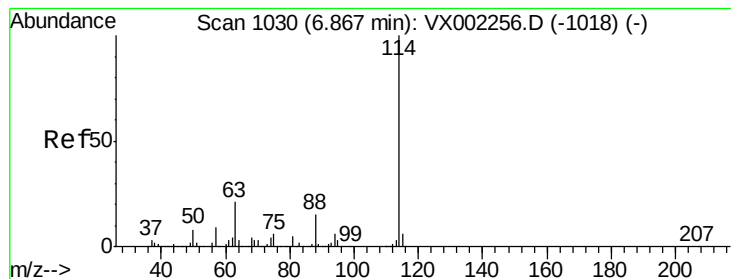
Tot Ion: 56 Resp: 5964
Ion Ratio Lower Upper
56 100
69 146.8 23.7 35.5#
84 107.8 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 49.61 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.01 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Tgt Ion: 65 Resp: 191536
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

Instrument :

MSVOA_X

ClientSampleId :

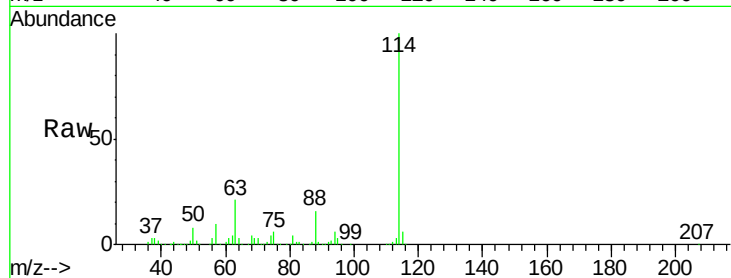
Tot Ion:114 Resp: 397231

Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.4

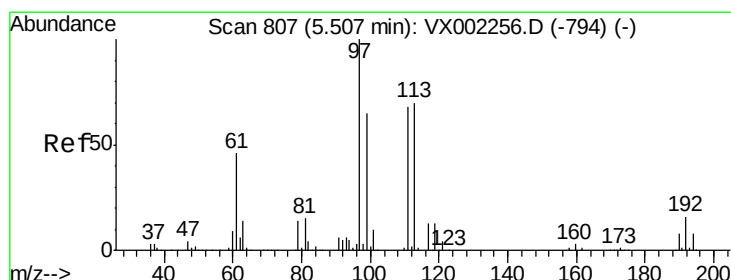
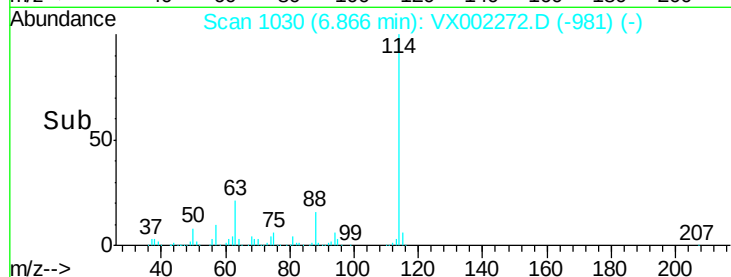
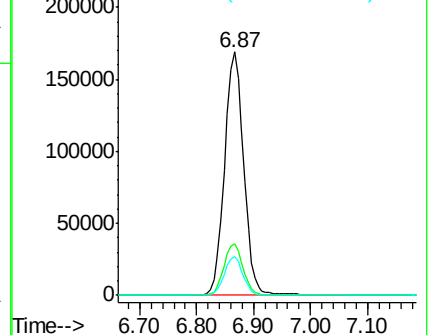
88 16.0 0.0 30.0



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: 44.57 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

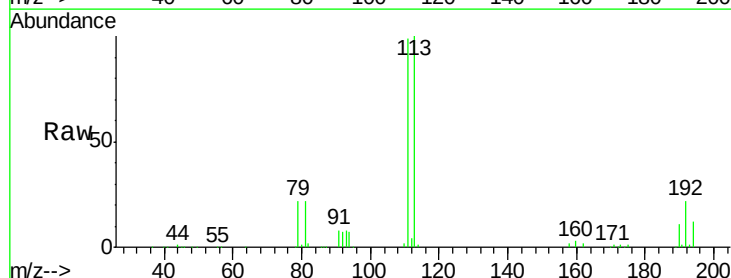
Tgt Ion:113 Resp: 139228

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

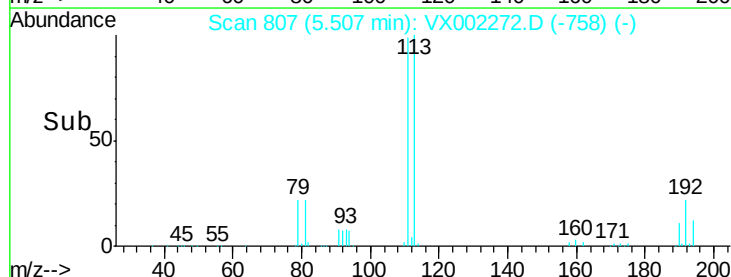
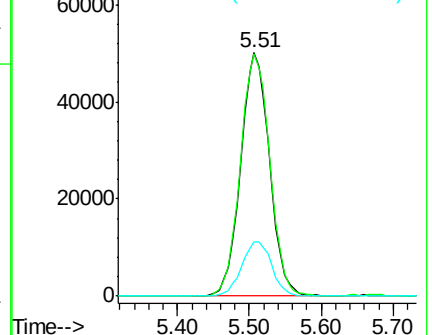
192 23.2 19.1 28.7

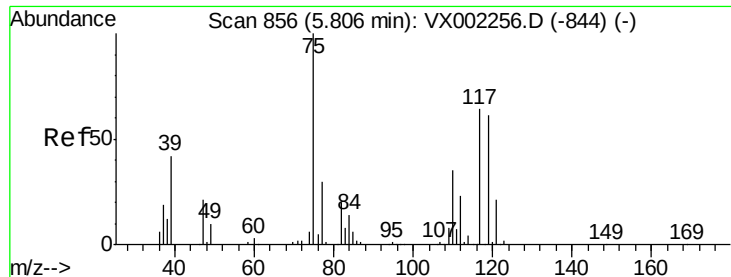


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

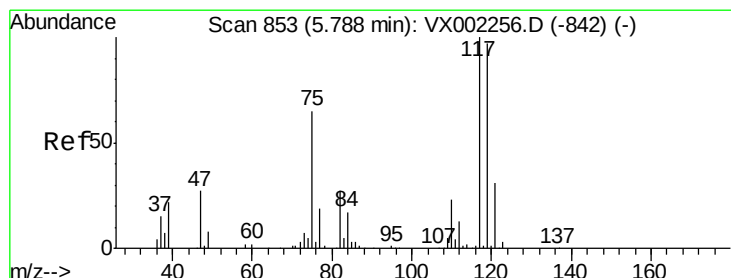
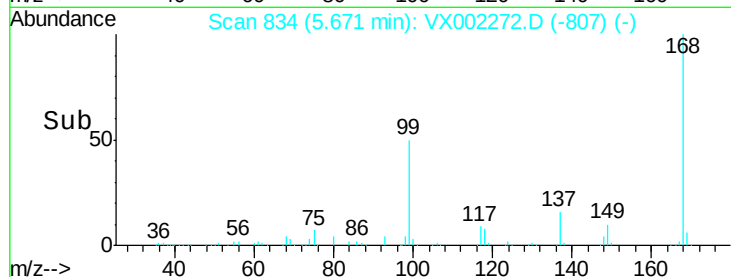
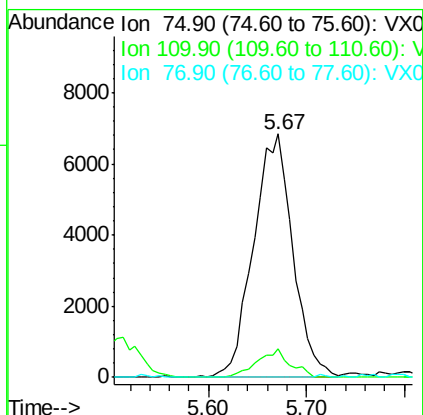
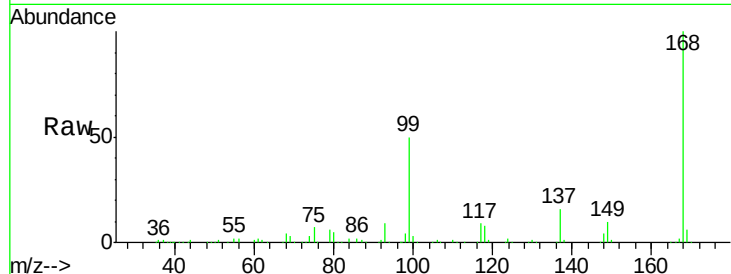




#36
 1,1-Dichloropropene
 Concen: 4.61 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002272.D
 Acq: 04 Jun 2018 20:34

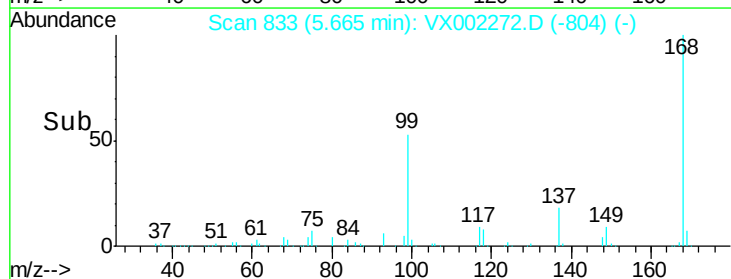
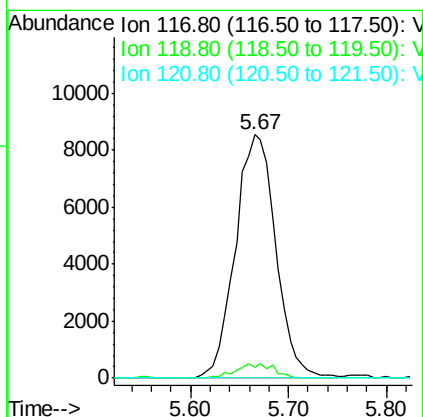
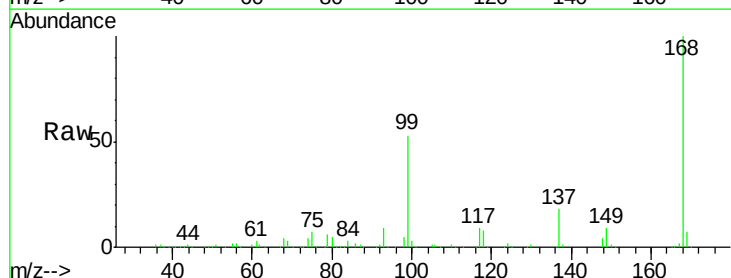
Instrument :
 MSVOA_X
 ClientSampleId :

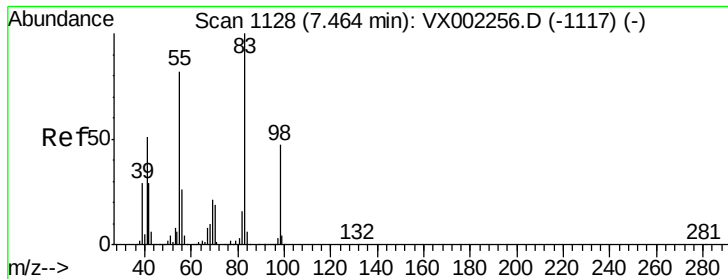
Tot Ion: 75 Resp: 19242
 Ion Ratio Lower Upper
 75 100
 110 9.8 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.61 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002272.D
 Acq: 04 Jun 2018 20:34

Tgt Ion:117 Resp: 24489
 Ion Ratio Lower Upper
 117 100
 119 4.6 77.4 116.0#
 121 0.0 24.4 36.6#

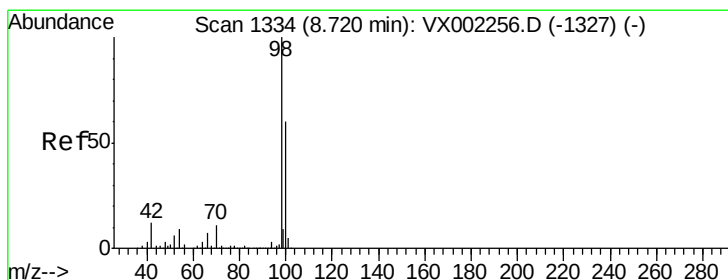
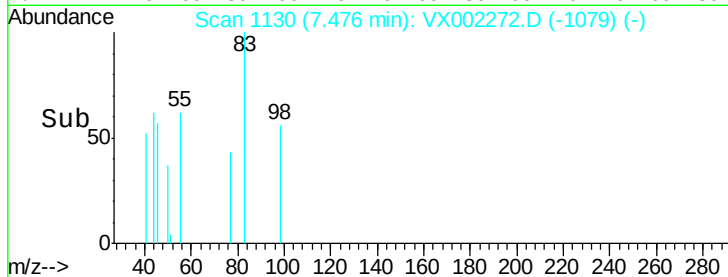
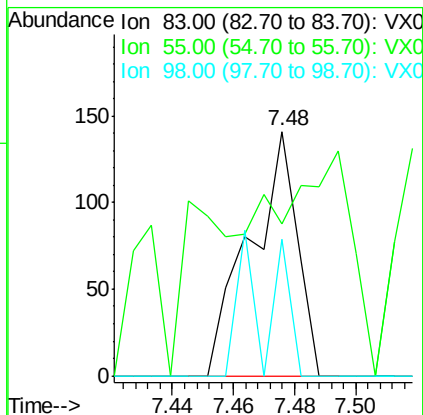
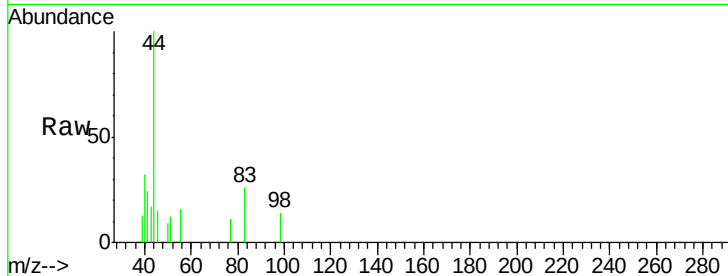




#39
Methylvlcyclohexane
Concen: 0.29 ug/l
RT: 7.48 min Scan# 1130
Delta R.T. 0.01 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

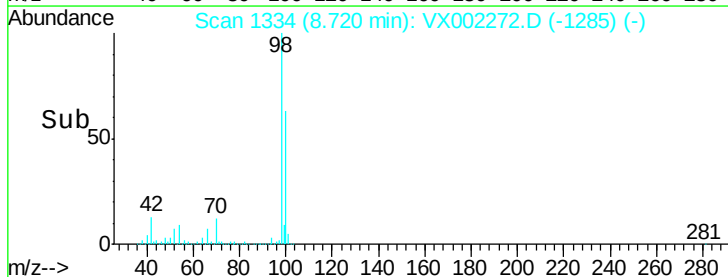
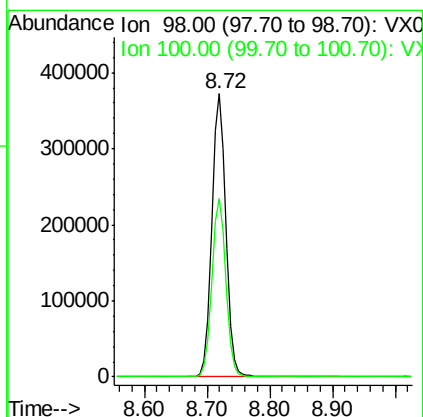
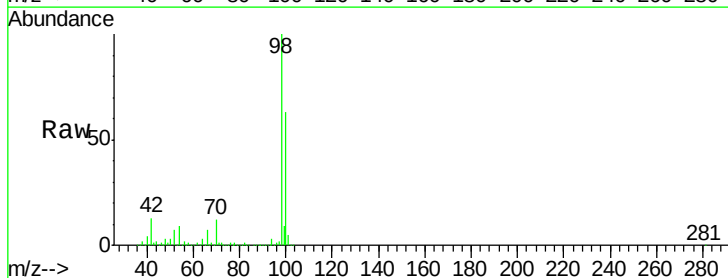
Instrument :
MSVOA_X
ClientSampled :

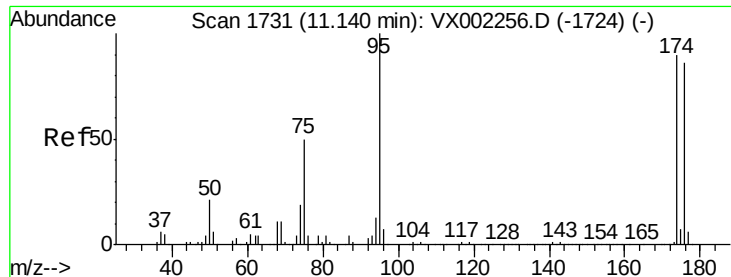
Tot Ion: 83 Resp: 150
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 56.0 37.4 56.0



#50
Toluene-d8
Concen: 47.92 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Tgt Ion: 98 Resp: 573779
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3

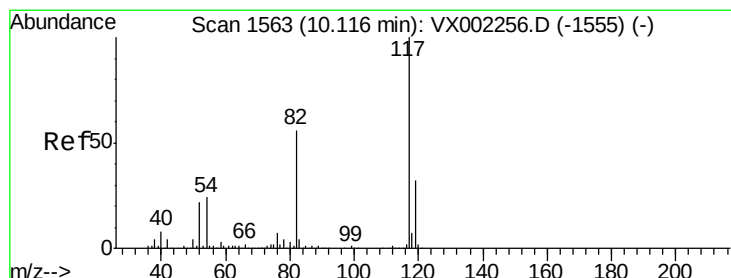
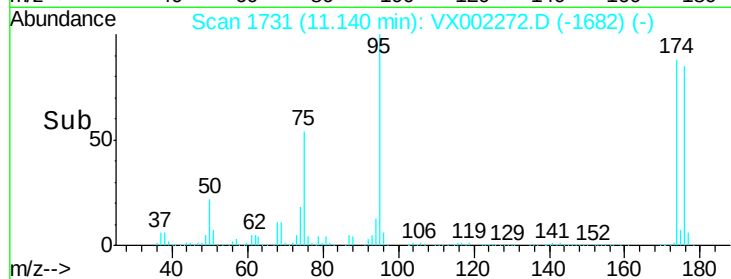
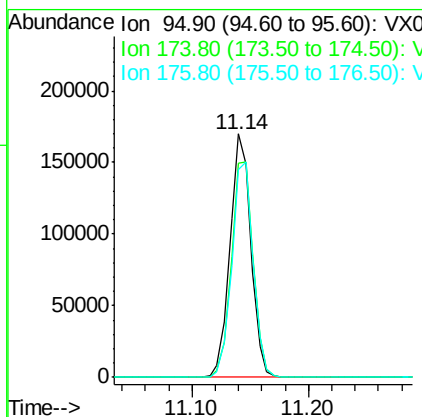
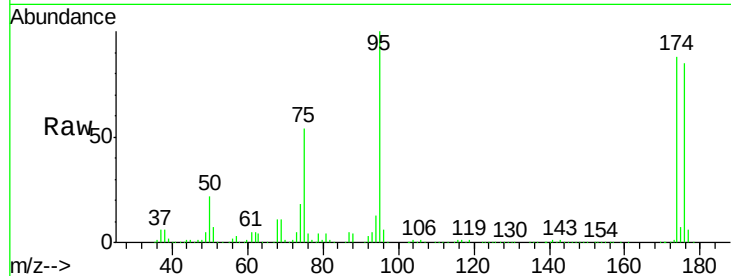




#62
 4-Bromofluorobenzene
 Concen: 45.98 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX002272.D
 Acq: 04 Jun 2018 20:34

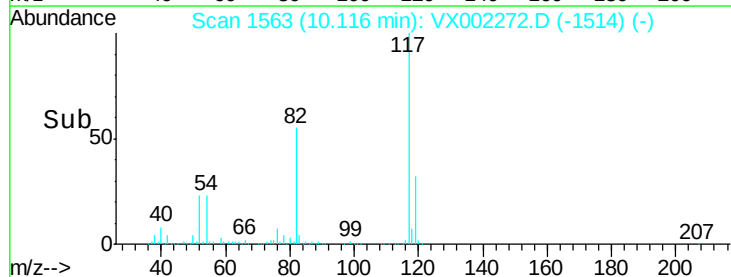
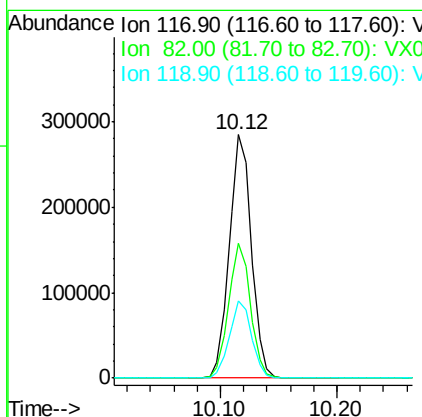
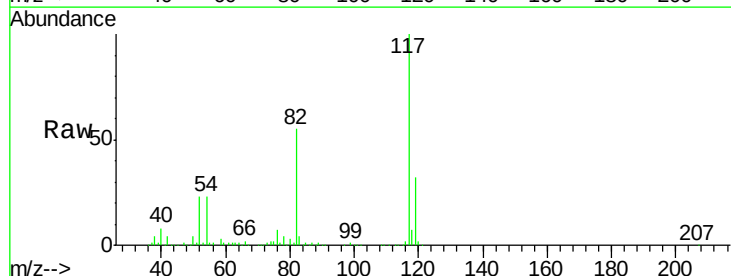
Instrument :
 MSVOA_X
 ClientSampleId :

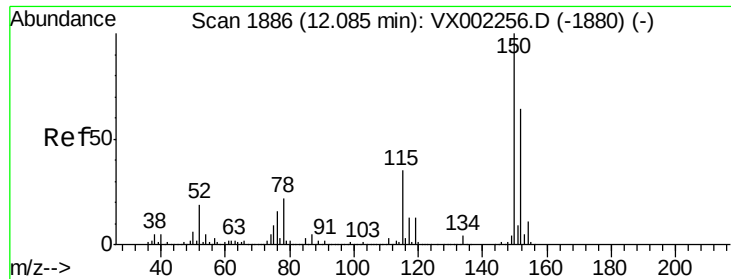
Tot Ion: 95 Resp: 212281
 Ion Ratio Lower Upper
 95 100
 174 92.9 0.0 187.4
 176 90.5 0.0 181.0



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX002272.D
 Acq: 04 Jun 2018 20:34

Tgt Ion: 117 Resp: 376088
 Ion Ratio Lower Upper
 117 100
 82 55.1 45.0 67.4
 119 31.8 25.8 38.6



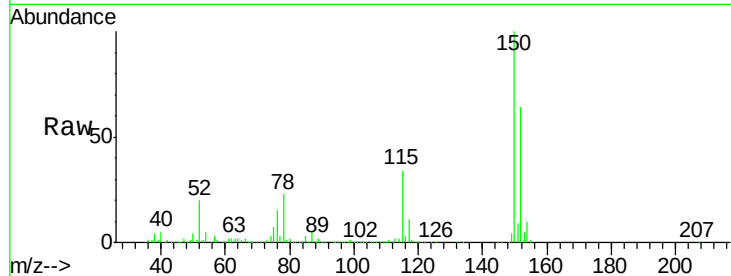


#72

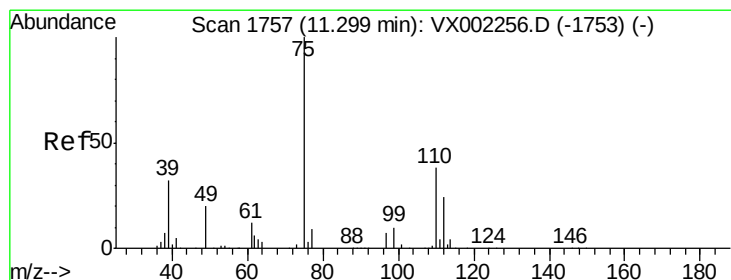
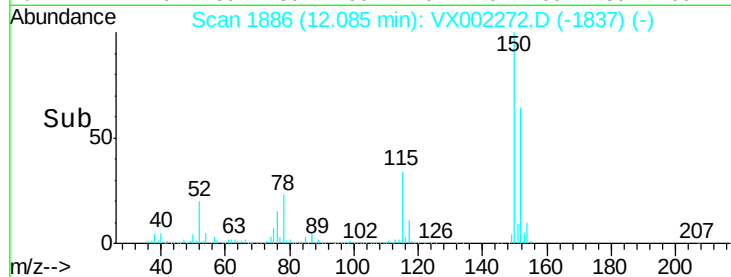
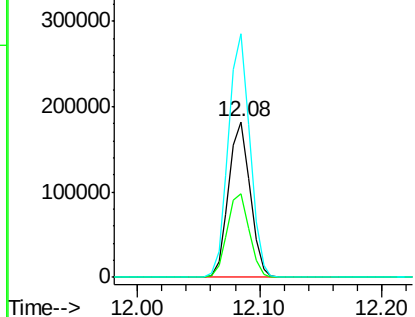
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 221202
Ion Ratio Lower Upper
152 100
115 55.4 40.1 120.2
150 156.4 0.0 347.2



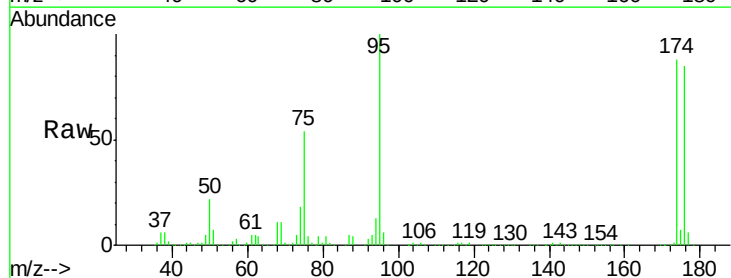
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



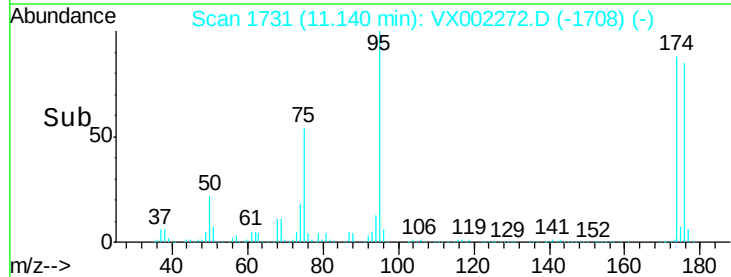
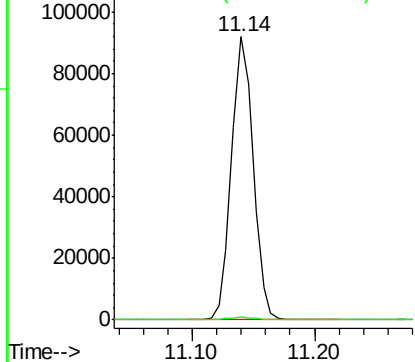
#76

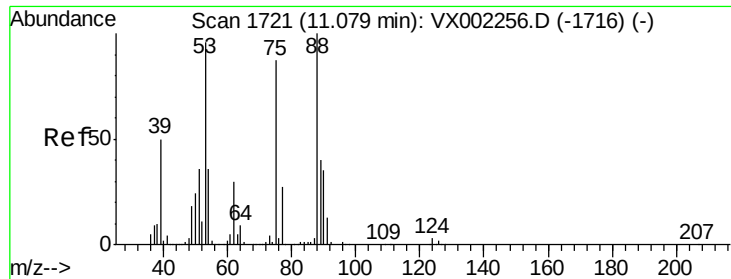
1,2,3-Trichloropropane
Concen: 23.27 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.16 min
Lab File: VX002272.D
Acq: 04 Jun 2018 20:34

Tgt Ion: 75 Resp: 112966
Ion Ratio Lower Upper
75 100
77 1.2 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: 81.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002272.D

Acq: 04 Jun 2018 20:34

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 112966

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

