

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042120\
 Data File : VX015790.D
 Acq On : 21 Apr 2020 13:37
 Operator : JC/SP
 Sample : PB128313TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB128313TB

Quant Time: Apr 21 16:19:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1053471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1629927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1572414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	856954	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	626305	42.15	ug/l	0.00
Spiked Amount			Recovery	=	84.30%	
35) Dibromofluoromethane	5.47	113	492906	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	8.70	98	1924285	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.12	95	799711	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	

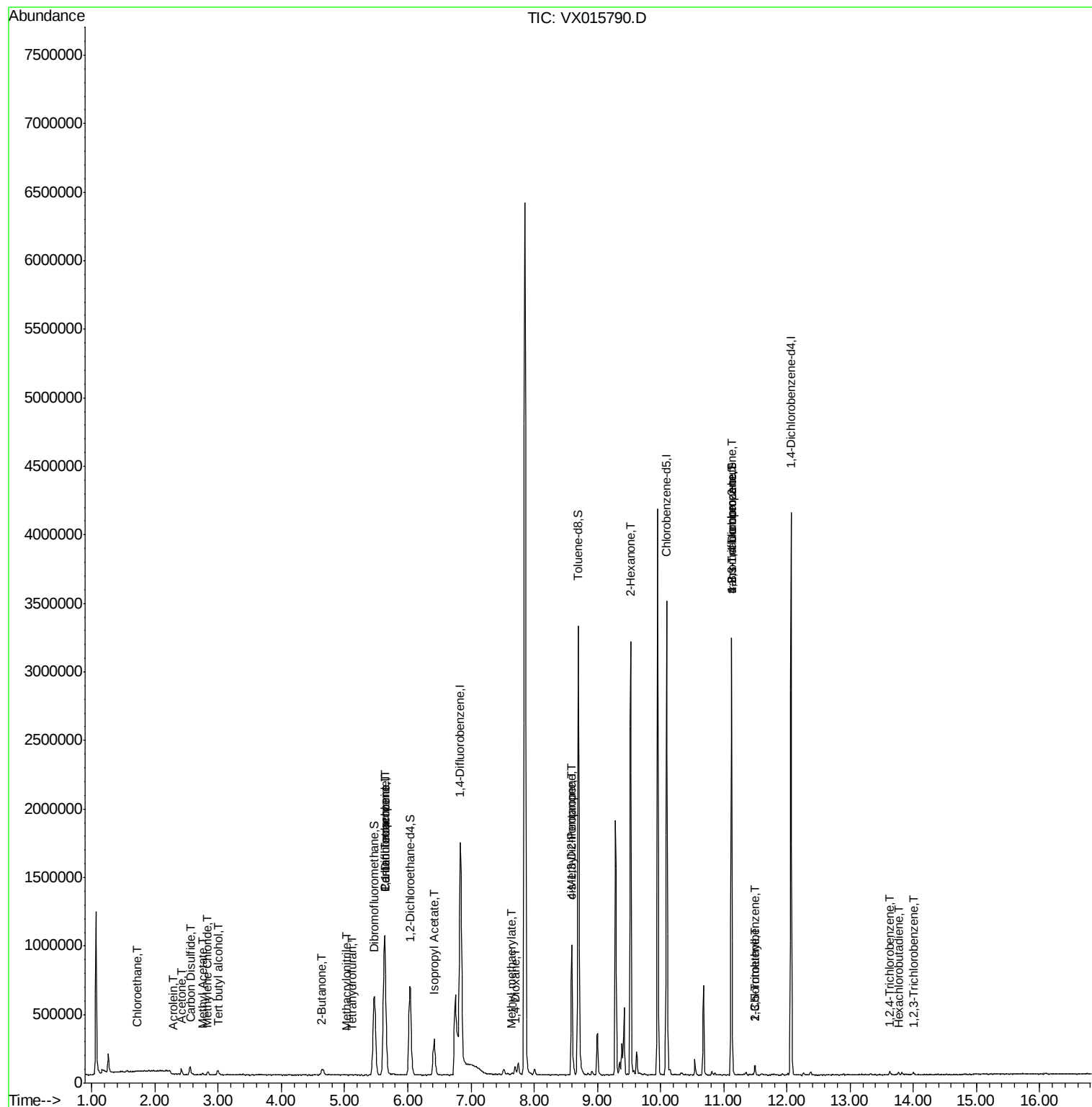
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	518	Below Cal		99
6) Chloroethane	1.72	64	4985	0.741	ug/l #	79
11) Tert butyl alcohol	3.00	59	20398	5.736	ug/l #	79
13) Acrolein	2.28	56	1137	0.561	ug/l #	72
16) Acetone	2.42	43	50800	7.958	ug/l	99
17) Carbon Disulfide	2.56	76	66365	2.187	ug/l	97
18) Methyl Acetate	2.75	43	12889	0.791	ug/l #	75
20) Methylene Chloride	2.83	84	10878	0.912	ug/l #	73
25) 2-Butanone	4.65	43	5727	0.558	ug/l	99
29) Tetrahydrofuran	5.11	42	3024	0.458	ug/l #	61
36) 1,1-Dichloropropene	5.64	75	70744	4.711	ug/l #	53
38) Carbon Tetrachloride	5.63	117	94585	5.815	ug/l #	16
41) Methacrylonitrile	5.03	41	2783	0.256	ug/l #	54
43) Isopropyl Acetate	6.42	43	373329	11.310	ug/l	97
48) Methyl methacrylate	7.65	41	18000	1.092	ug/l #	18
49) 1,4-Dioxane	7.71	88	378	1.229	ug/l #	20
51) 4-Methyl-2-Pentanone	8.59	43	351017	18.764	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	144044	7.168	ug/l #	52
59) 2-Hexanone	9.53	43	373697	26.459	ug/l #	52
76) 1,2,3-Trichloropropane	11.12	75	400588	22.732	ug/l #	35
79) 2-Chlorotoluene	11.50	91	8219	0.209	ug/l	85
80) 1,3,5-Trimethylbenzene	11.50	105	28374	0.592	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	400588	54.543	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.63	180	6144	0.296	ug/l	95
94) Hexachlorobutadiene	13.76	225	3571	0.361	ug/l	87
96) 1,2,3-Trichlorobenzene	14.01	180	4610	0.231	ug/l	88

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

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Quant Time: Apr 21 16:19:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

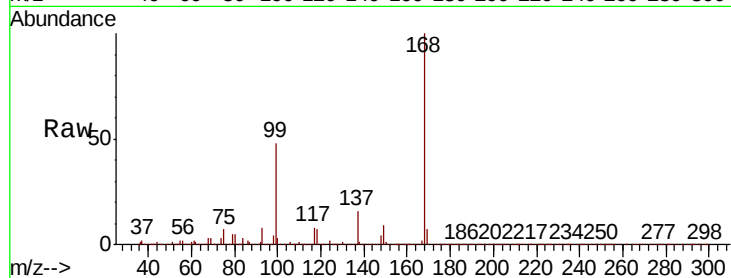
PB128313TB

Tot Ion:168 Resp: 1053471

Ion Ratio Lower Upper

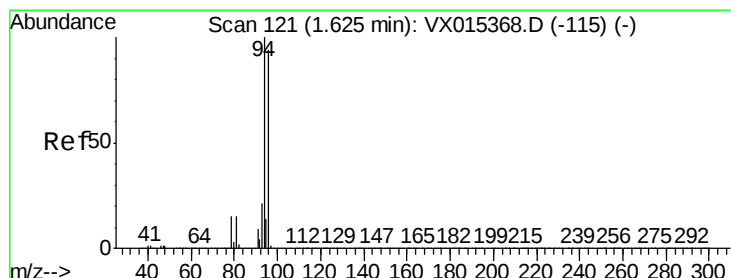
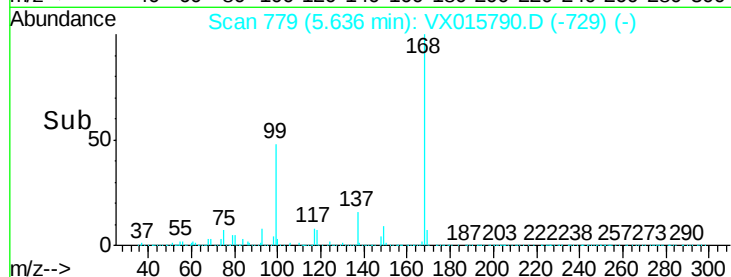
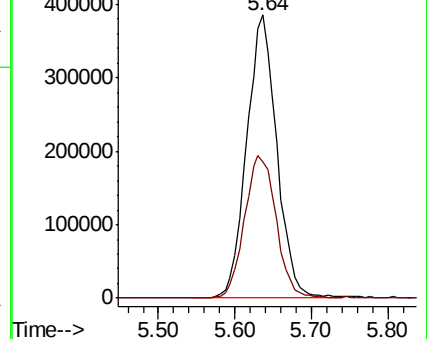
168 100

99 48.0 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015790.D

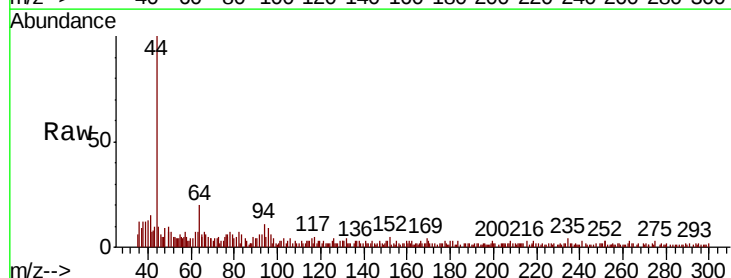
Acq: 21 Apr 2020 13:37

Tgt Ion: 94 Resp: 518

Ion Ratio Lower Upper

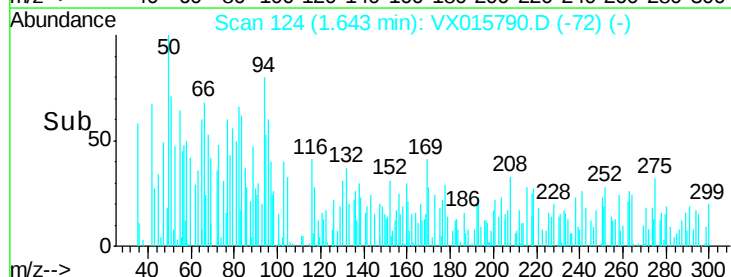
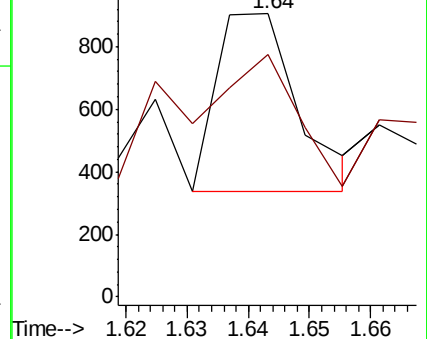
94 100

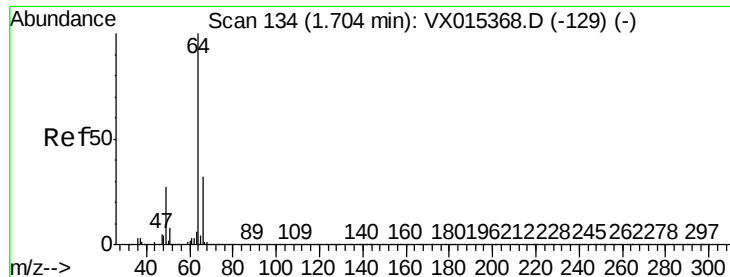
96 92.7 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.741 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

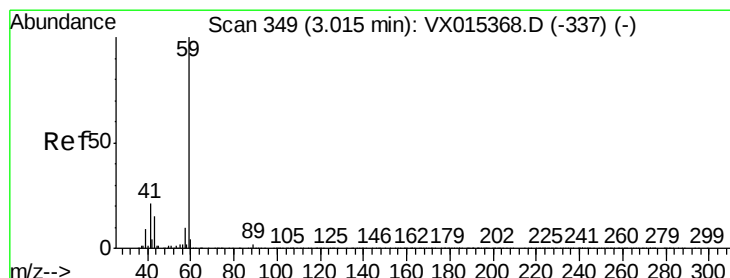
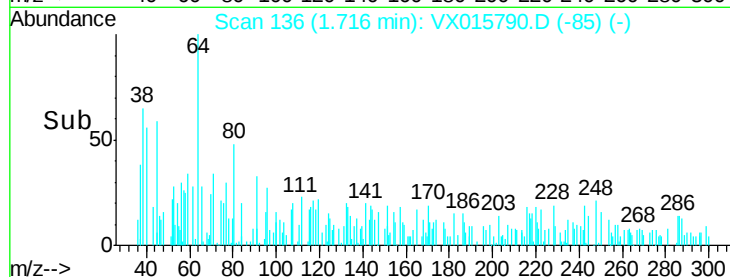
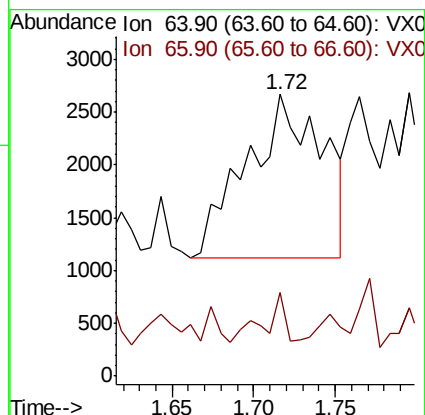
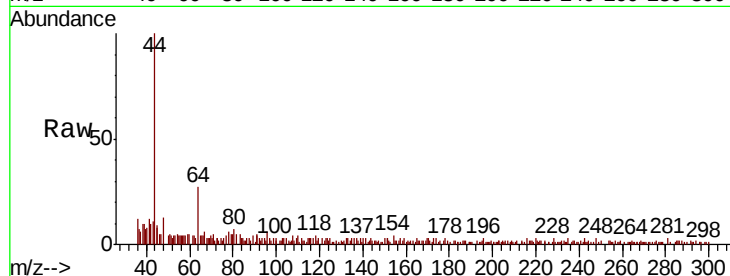
PB128313TB

Tot Ion: 64 Resp: 4985

Ion Ratio Lower Upper

64 100

66 20.0 25.4 38.2#



#11

Tert butyl alcohol

Concen: 5.736 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015790.D

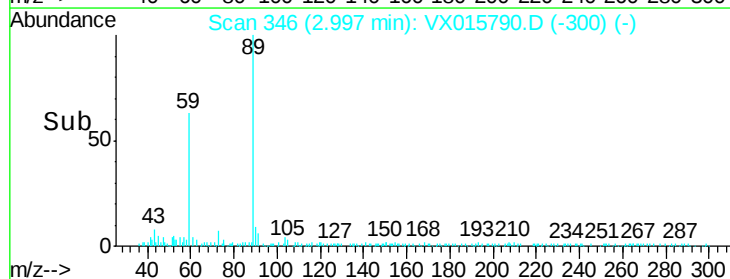
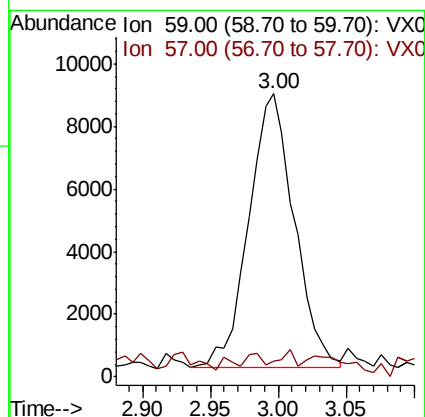
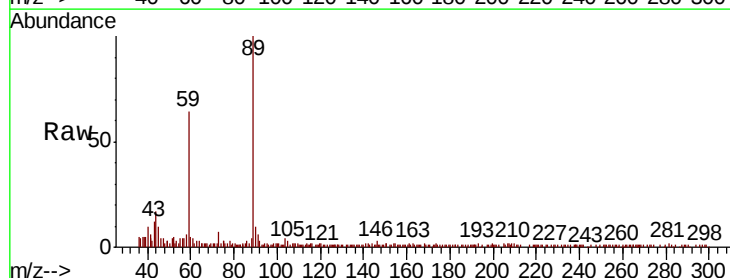
Acq: 21 Apr 2020 13:37

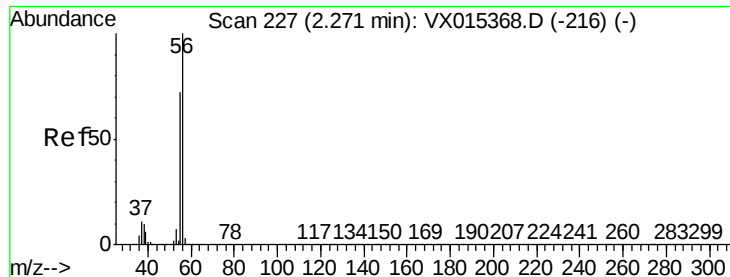
Tgt Ion: 59 Resp: 20398

Ion Ratio Lower Upper

59 100

57 2.2 8.1 12.1#





#13

Acrolein

Concen: 0.561 ug/l

RT: 2.28 min Scan# 228

Delta R.T. 0.01 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

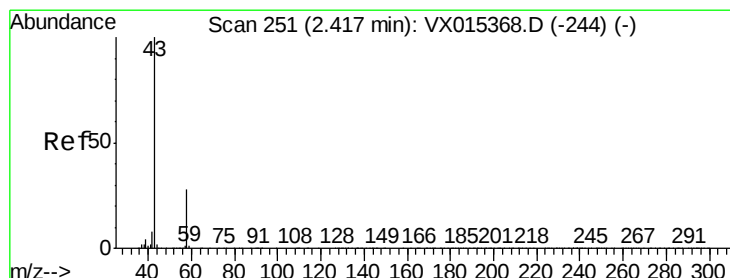
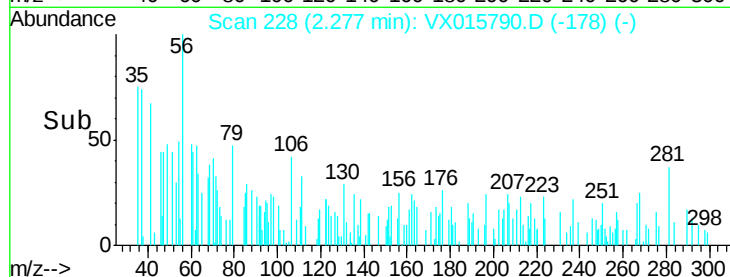
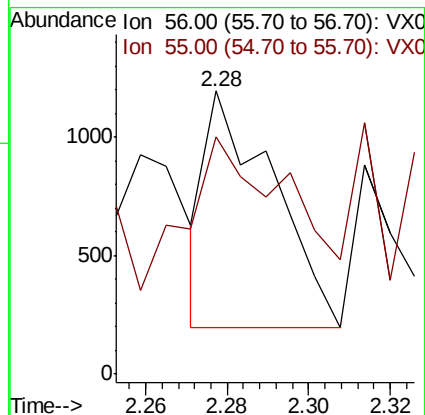
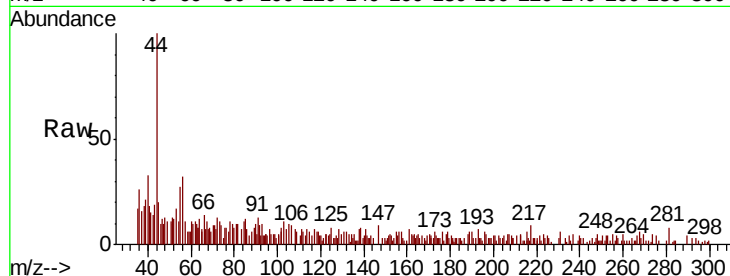
PB128313TB

Tot Ion: 56 Resp: 1137

Ion Ratio Lower Upper

56 100

55 94.4 57.0 85.4#



#16

Acetone

Concen: 7.958 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015790.D

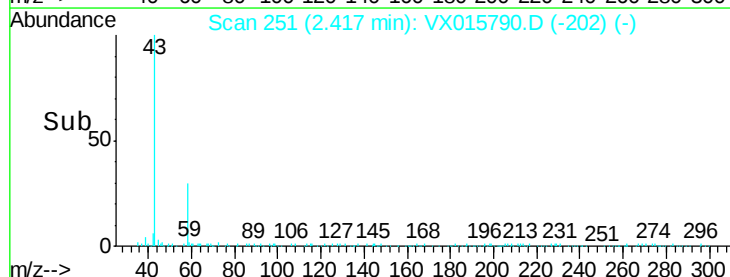
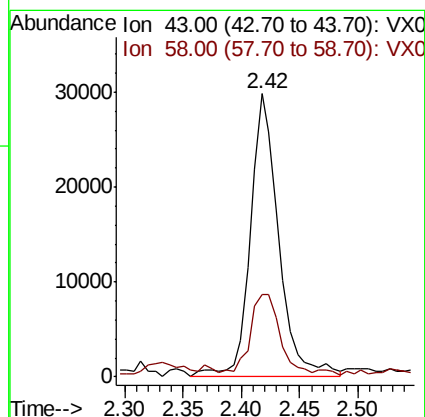
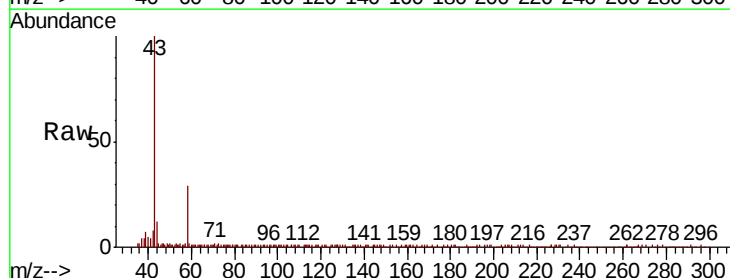
Acq: 21 Apr 2020 13:37

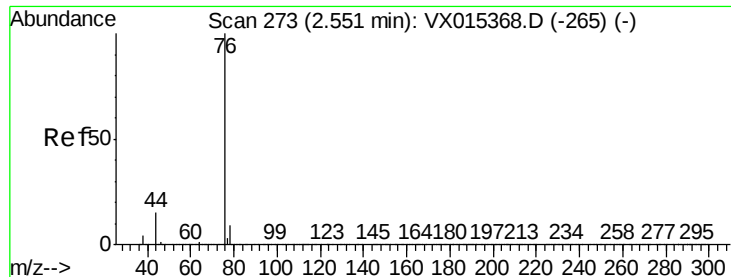
Tgt Ion: 43 Resp: 50800

Ion Ratio Lower Upper

43 100

58 28.2 22.1 33.1





#17

Carbon Disulfide

Concen: 2.187 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

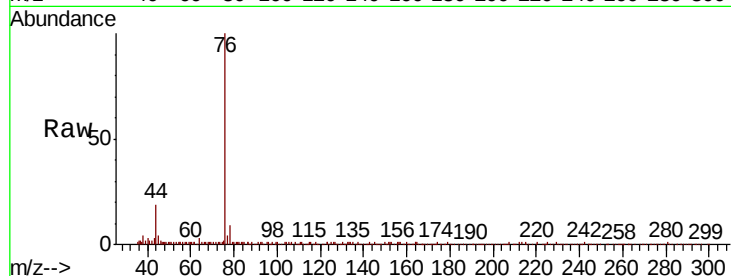
PB128313TB

Tot Ion: 76 Resp: 66365

Ion Ratio Lower Upper

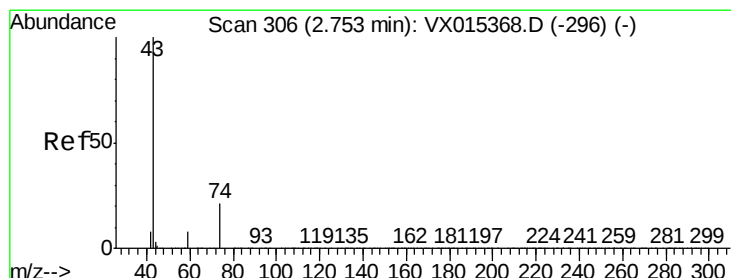
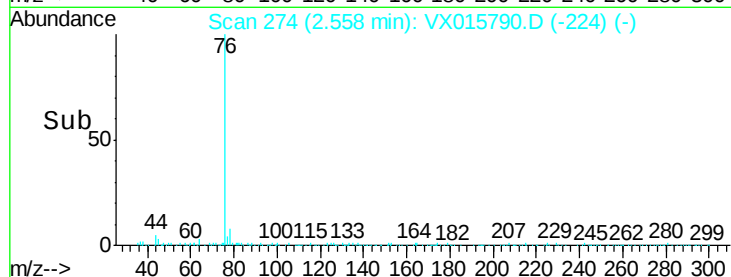
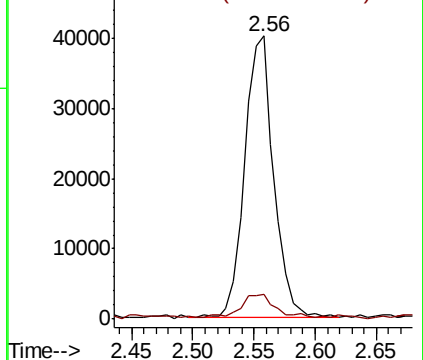
76 100

78 7.7 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.791 ug/l

RT: 2.75 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX015790.D

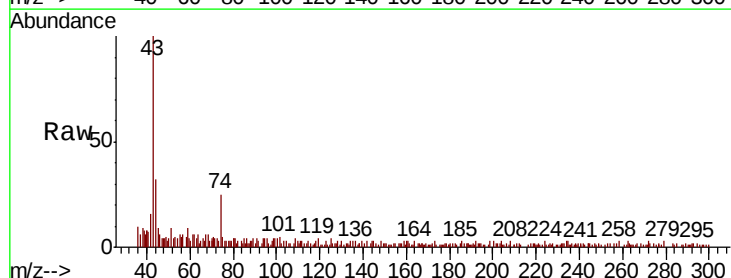
Acq: 21 Apr 2020 13:37

Tgt Ion: 43 Resp: 12889

Ion Ratio Lower Upper

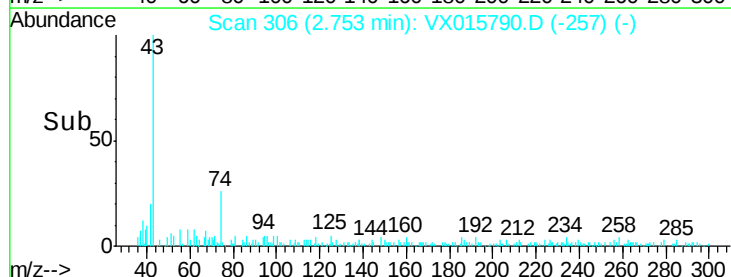
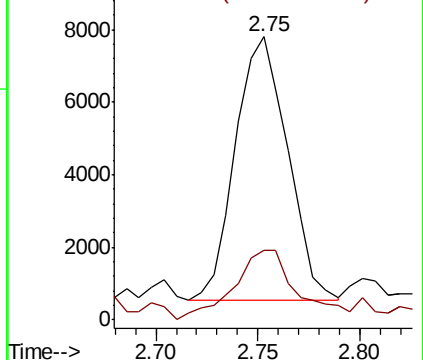
43 100

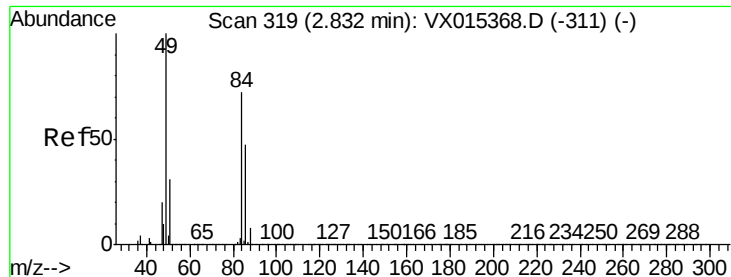
74 32.4 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

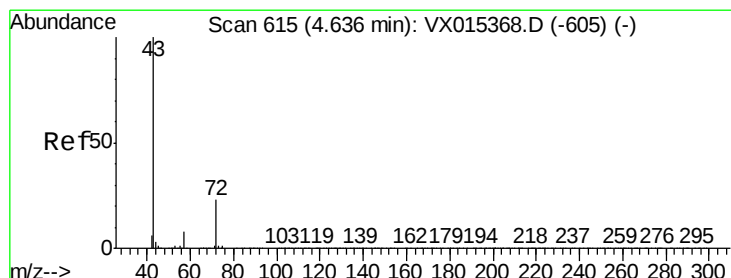
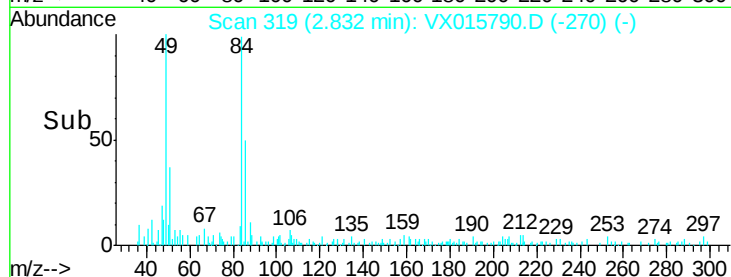
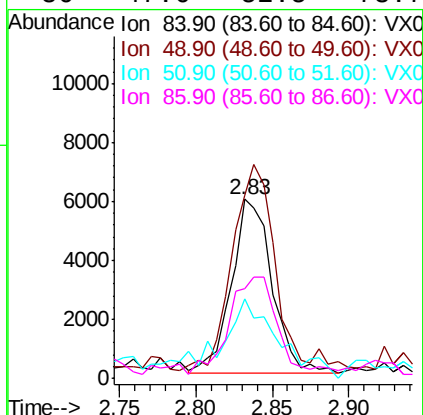
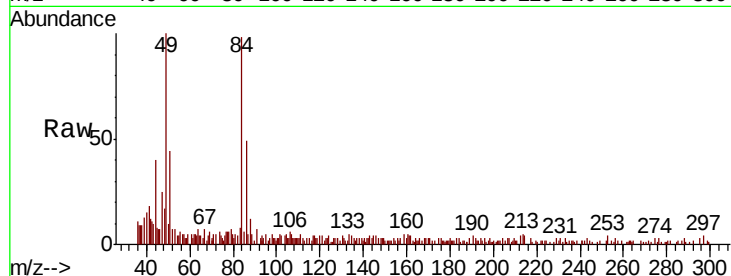




#20
Methvlene Chloride
Concen: 0.912 ug/l
RT: 2.83 min Scan# 319
Delta R.T. 0.00 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

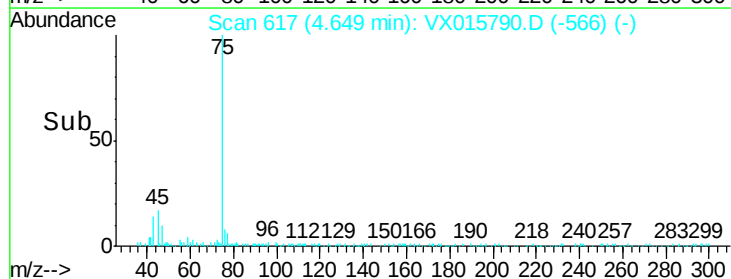
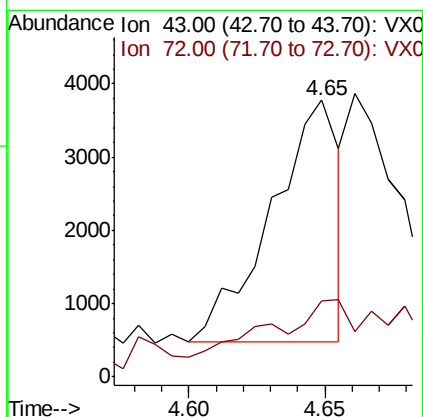
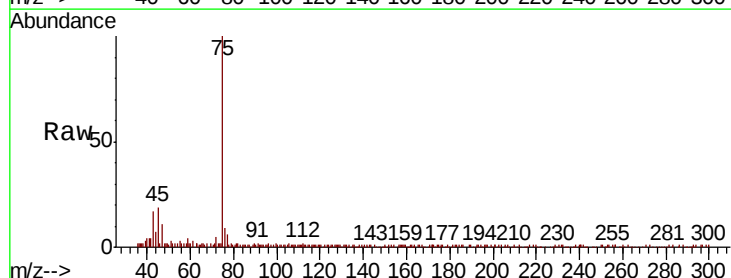
Instrument :
MSVOA_X
ClientSampled :
PB128313TB

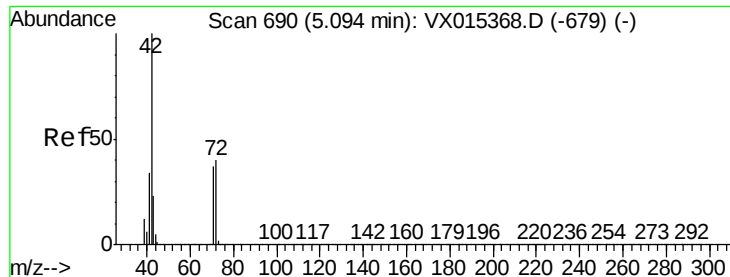
Tot Ion: 84 Resp: 10878
Ion Ratio Lower Upper
84 100
49 98.1 111.3 166.9#
51 35.3 34.0 51.0
86 47.6 52.5 78.7#



#25
2-Butanone
Concen: 0.558 ug/l
RT: 4.65 min Scan# 617
Delta R.T. 0.01 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

Tgt Ion: 43 Resp: 5727
Ion Ratio Lower Upper
43 100
72 23.1 19.0 28.4





#29

Tetrahydrofuran

Concen: 0.458 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.02 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

PB128313TB

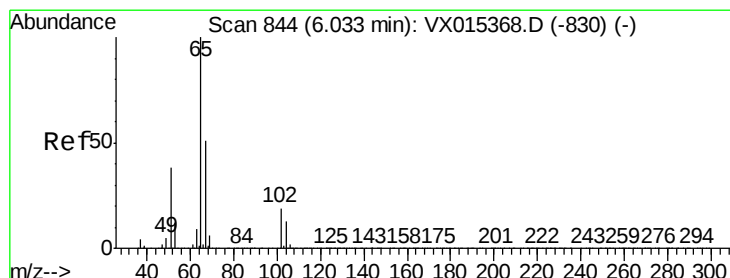
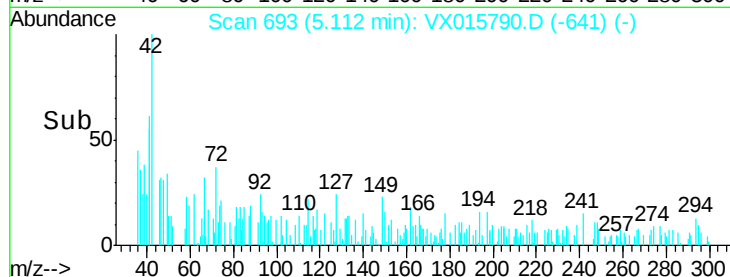
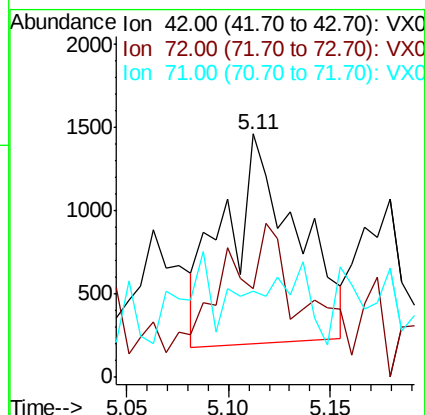
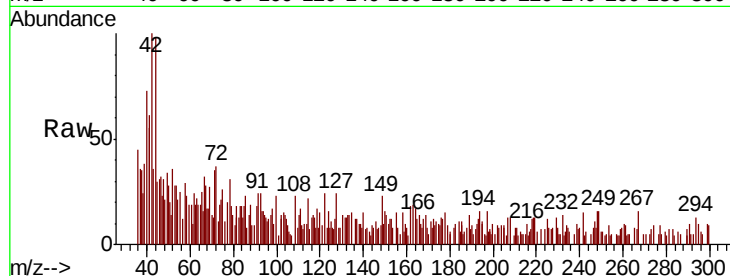
Tot Ion: 42 Resp: 3024

Ion Ratio Lower Upper

42 100

72 50.6 31.7 47.5#

71 0.0 29.6 44.4#



#33

1,2-Dichloroethane-d4

Concen: 42.153 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015790.D

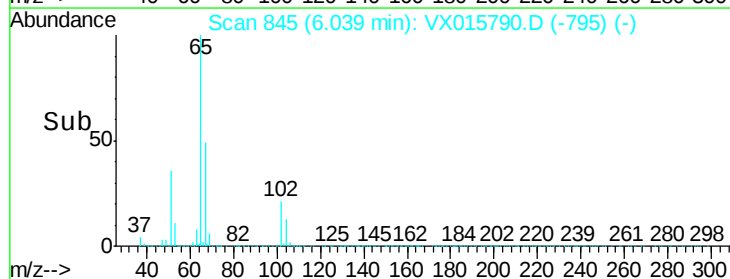
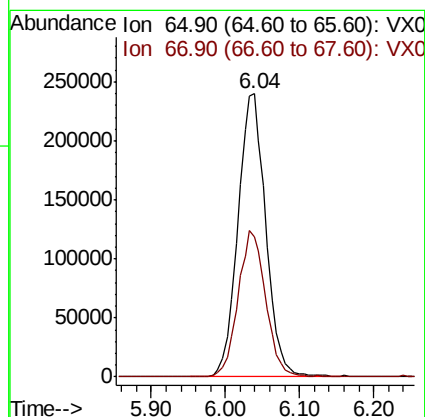
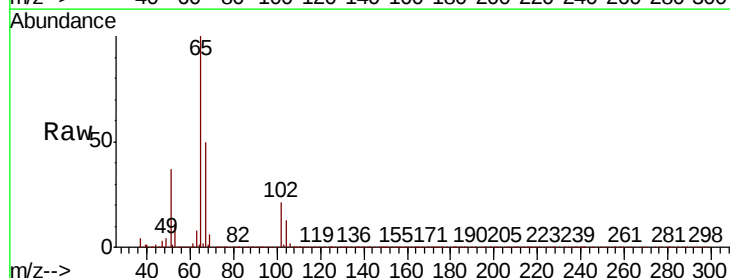
Acq: 21 Apr 2020 13:37

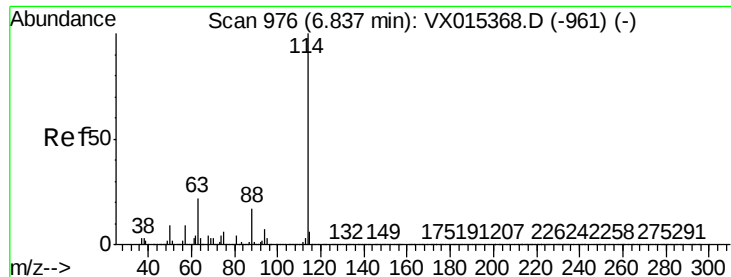
Tgt Ion: 65 Resp: 626305

Ion Ratio Lower Upper

65 100

67 51.0 0.0 102.6

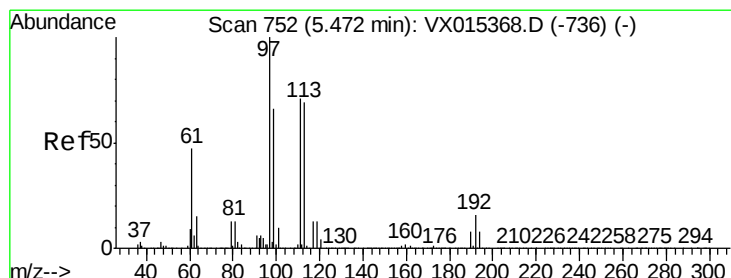
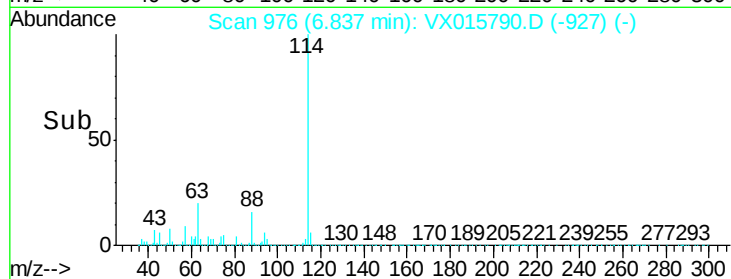
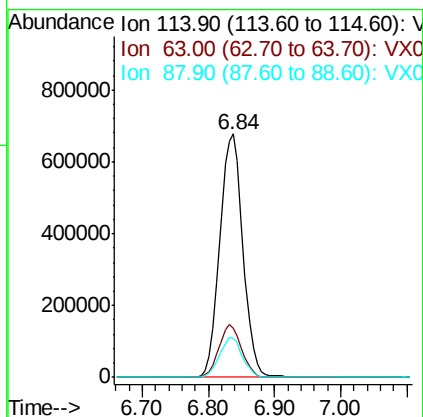
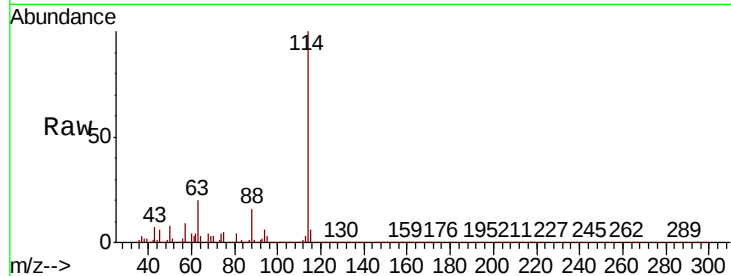




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

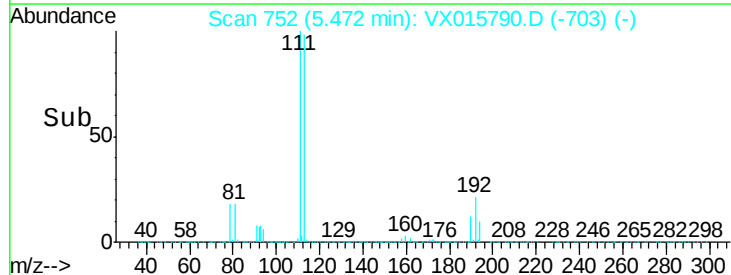
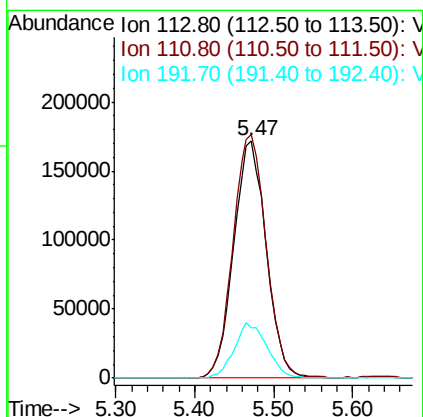
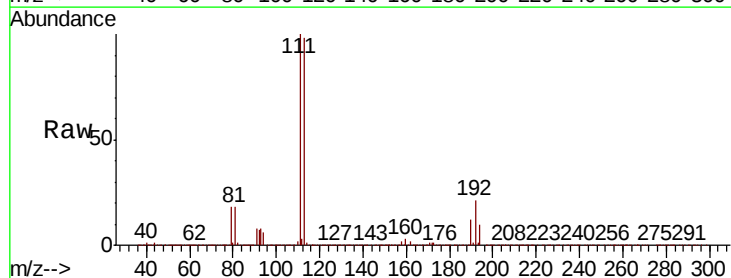
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128313TB

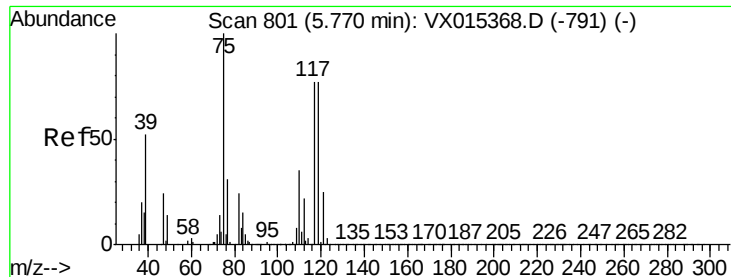
Tot Ion:114 Resp: 1629927
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 44.2
 88 16.1 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 47.309 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

Tgt Ion:113 Resp: 492906
 Ion Ratio Lower Upper
 113 100
 111 104.6 81.5 122.3
 192 23.2 17.8 26.6

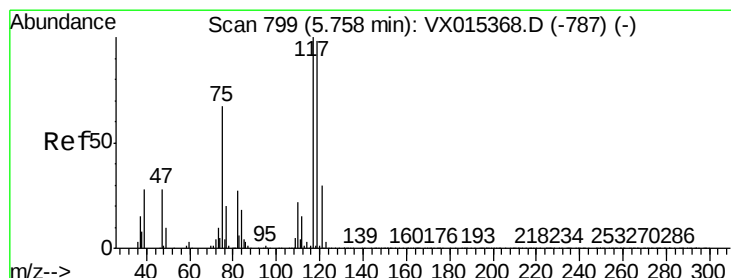
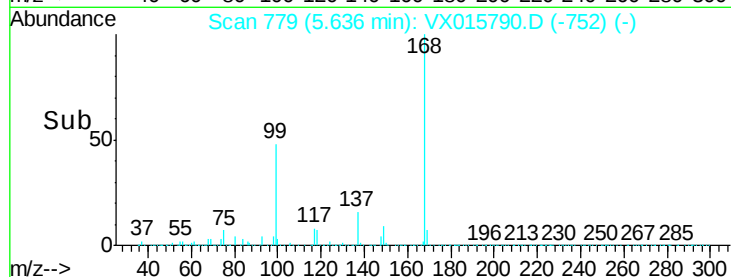
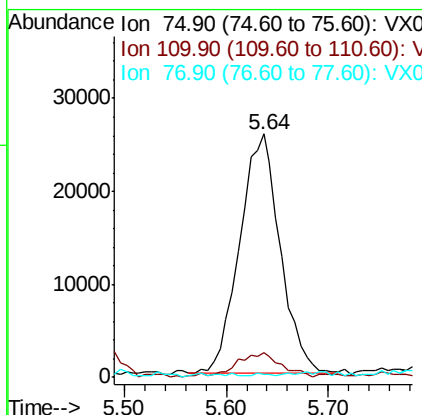
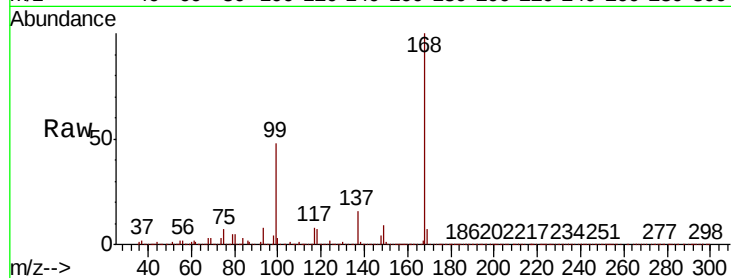




#36
 1,1-Dichloropropene
 Concen: 4.711 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

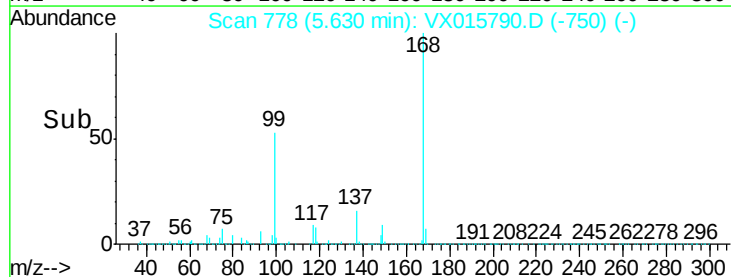
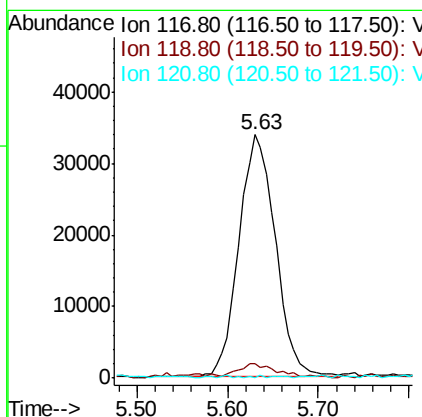
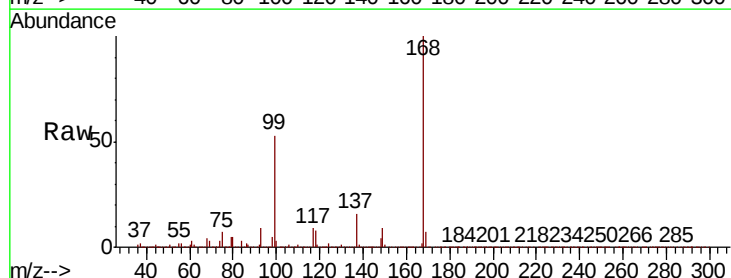
Instrument :
 MSVOA_X
 ClientSampleId :
 PB128313TB

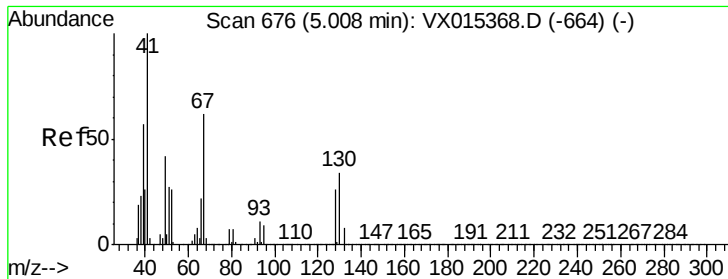
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	17.1	51.3#
77	0.3	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.815 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.13 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.0	117.0#
121	0.2	23.8	35.8#

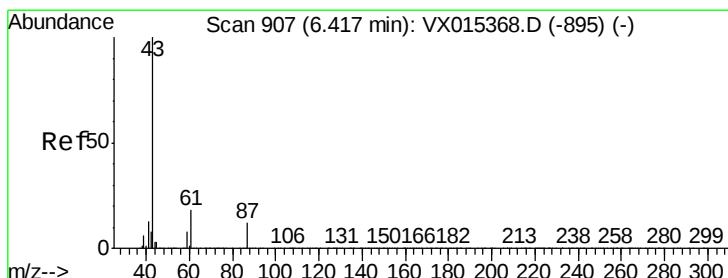
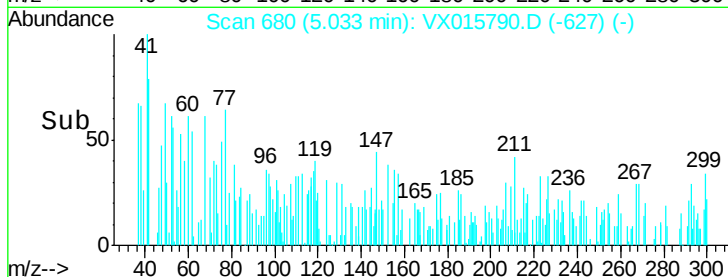
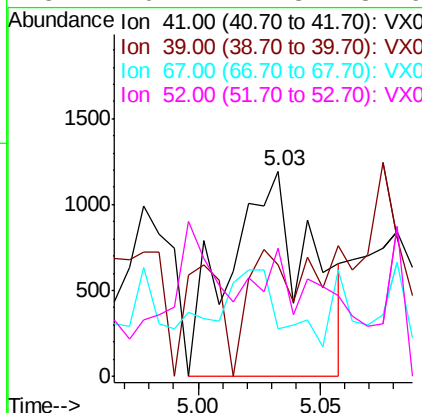
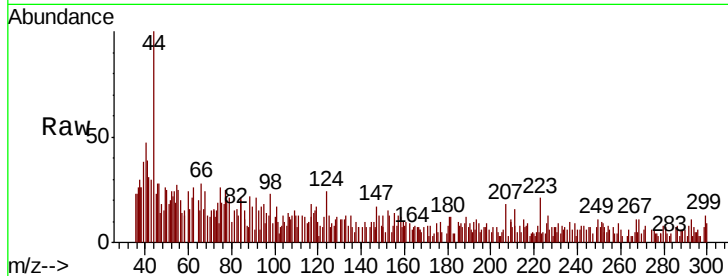




#41
Methacrylonitrile
Concen: 0.256 ug/l
RT: 5.03 min Scan# 680
Delta R.T. 0.02 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

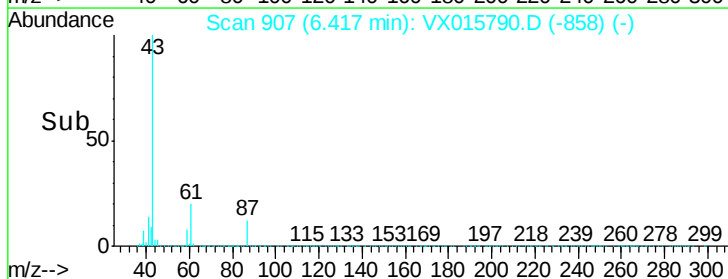
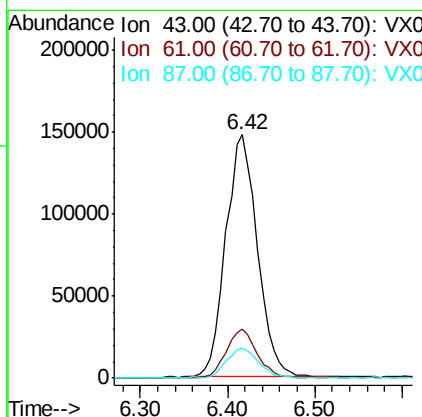
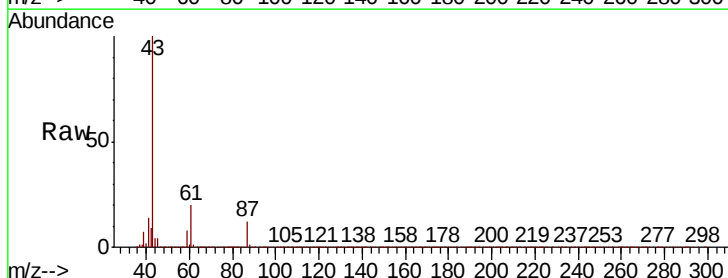
Instrument :
MSVOA_X
ClientSampled :
PB128313TB

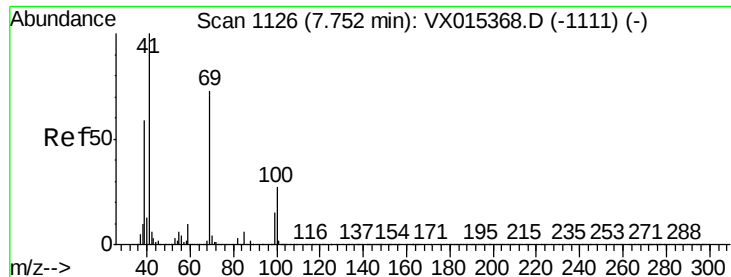
Tot Ion:	41	Resp:	2783
Ion	Ratio	Lower	Upper
41	100		
39	31.5	44.5	66.7#
67	12.3	48.9	73.3#
52	10.1	21.8	32.6#



#43
Isopropyl Acetate
Concen: 11.310 ug/l
RT: 6.42 min Scan# 907
Delta R.T. 0.00 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

Tgt Ion:	43	Resp:	373329
Ion	Ratio	Lower	Upper
43	100		
61	19.8	14.8	22.2
87	12.4	9.4	14.0





#48

Methyl methacrylate

Concen: 1.092 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.10 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

PB128313TB

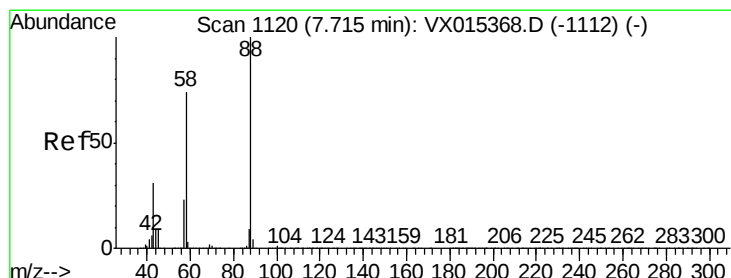
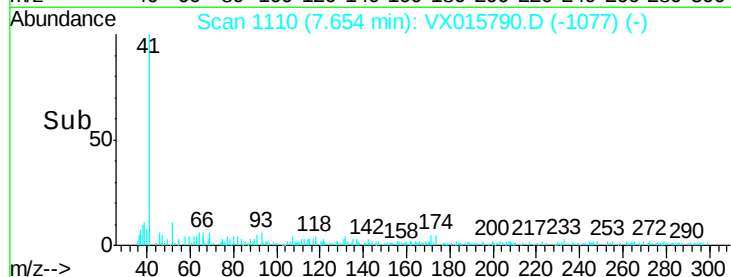
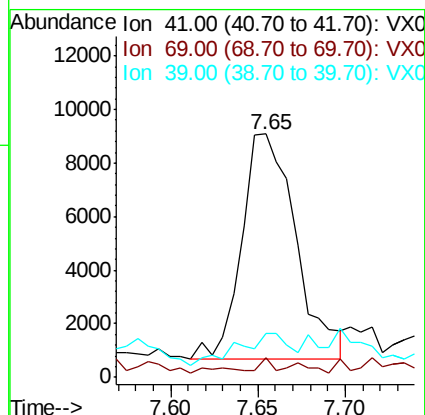
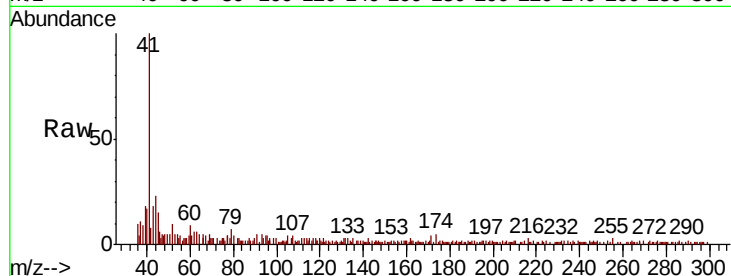
Tot Ion: 41 Resp: 18000

Ion Ratio Lower Upper

41 100

69 1.2 56.7 85.1#

39 0.0 46.5 69.7#



#49

1,4-Dioxane

Concen: 1.229 ug/l

RT: 7.71 min Scan# 1119

Delta R.T. -0.01 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

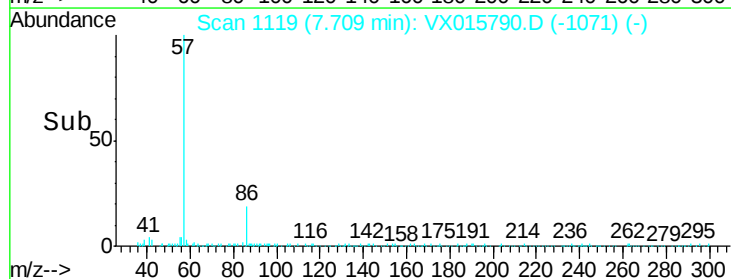
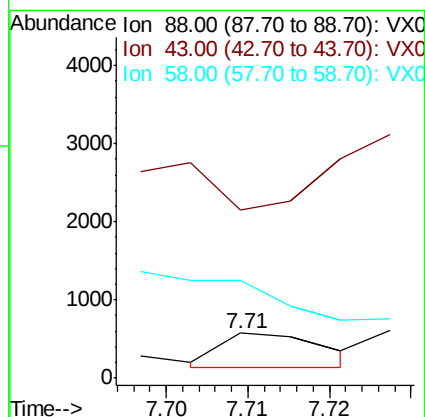
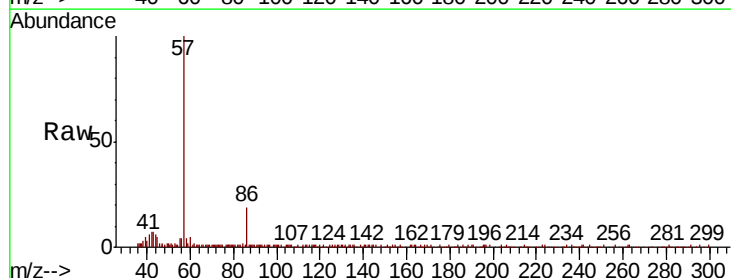
Tgt Ion: 88 Resp: 378

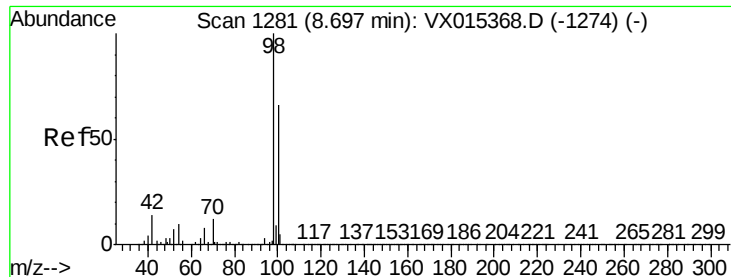
Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 60.6 90.8#

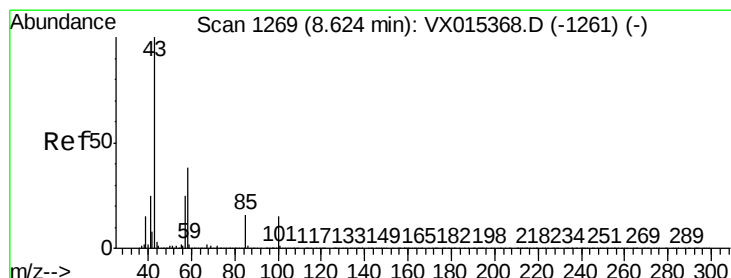
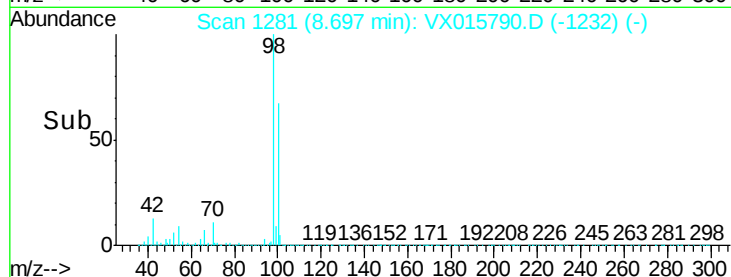
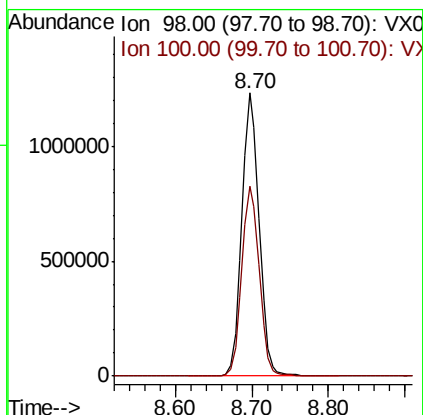
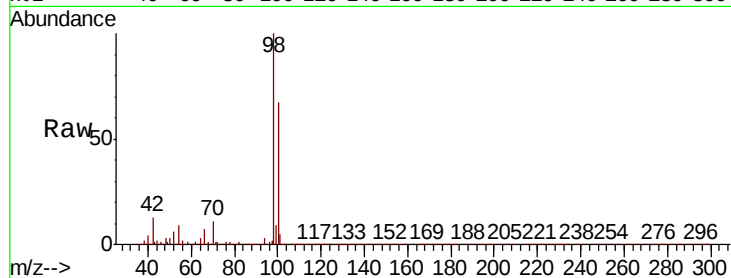




#50
Toluene-d8
Concen: 50.164 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

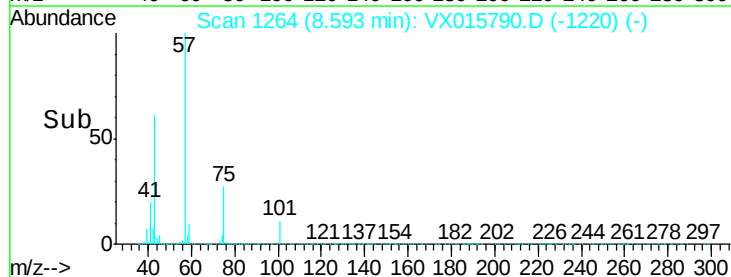
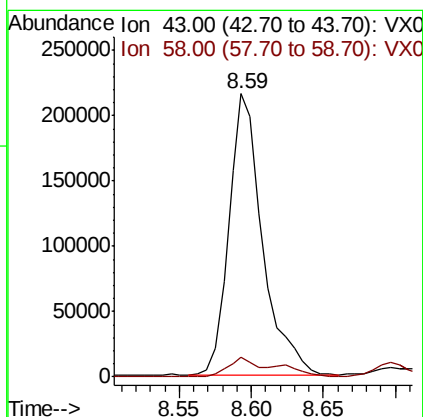
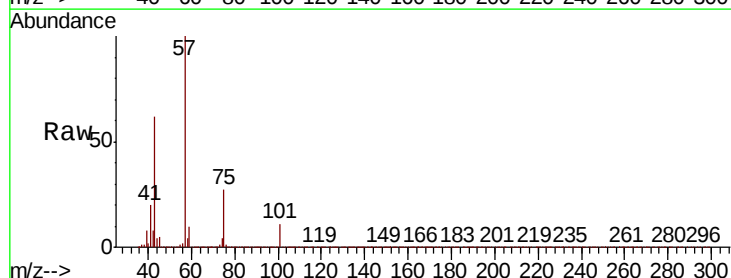
Instrument :
MSVOA_X
ClientSampleId :
PB128313TB

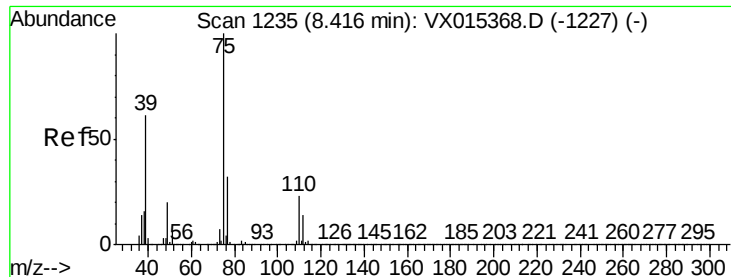
Tot Ion: 98 Resp: 1924285
Ion Ratio Lower Upper
98 100
100 68.0 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 18.764 ug/l
RT: 8.59 min Scan# 1264
Delta R.T. -0.03 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

Tgt Ion: 43 Resp: 351017
Ion Ratio Lower Upper
43 100
58 5.9 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 7.168 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. 0.18 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

PB128313TB

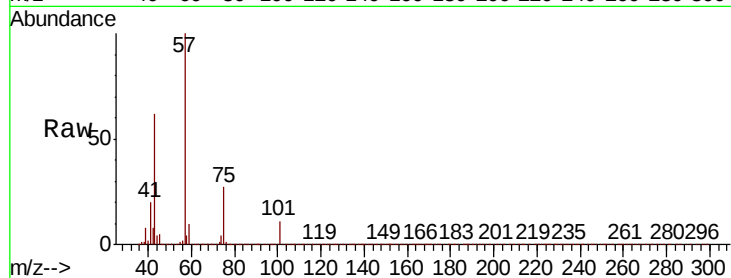
Tot Ion: 75 Resp: 144044

Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

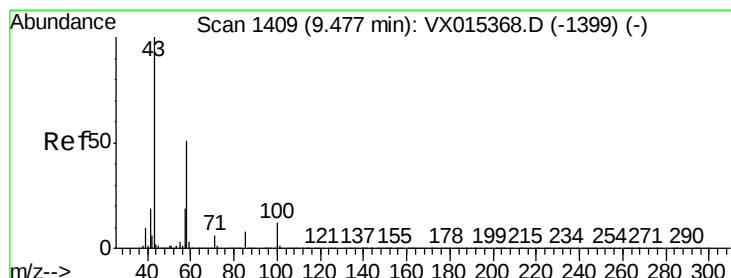
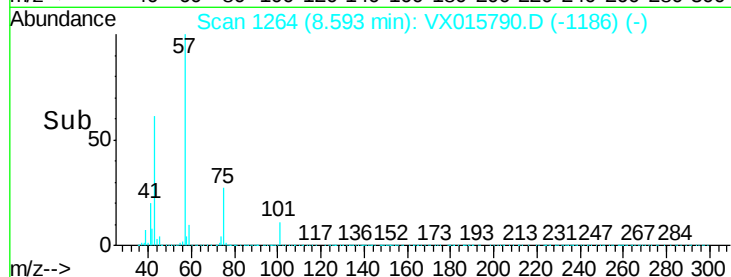
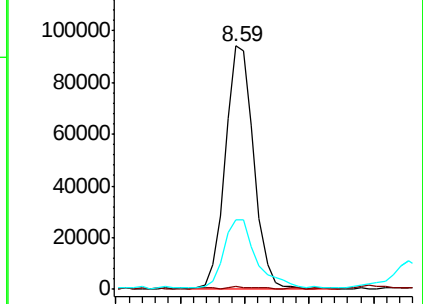
39 28.2 49.0 73.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 26.459 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015790.D

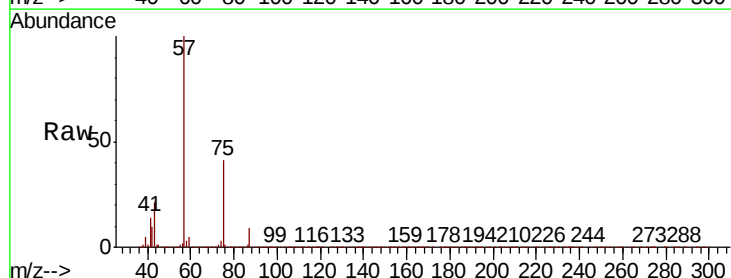
Acq: 21 Apr 2020 13:37

Tgt Ion: 43 Resp: 373697

Ion Ratio Lower Upper

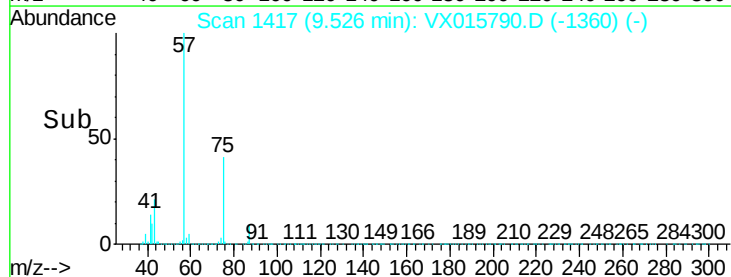
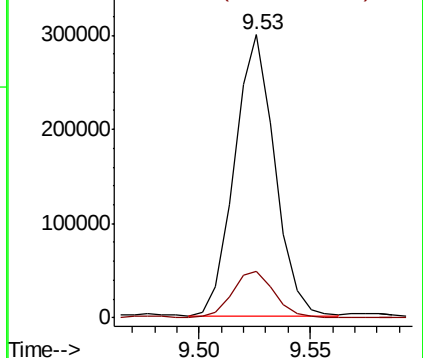
43 100

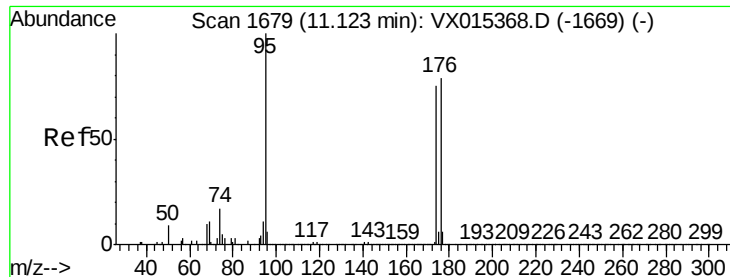
58 17.4 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 51.298 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

PB128313TB

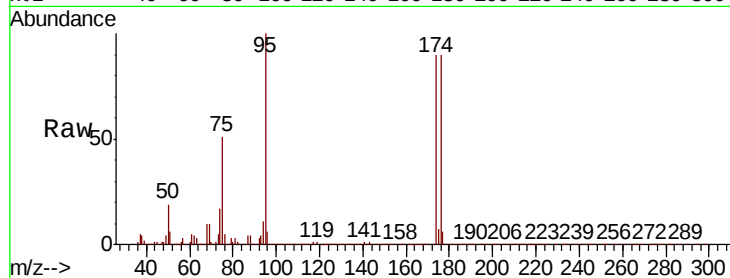
Tot Ion: 95 Resp: 799711

Ion Ratio Lower Upper

95 100

174 87.2 0.0 158.6

176 84.2 0.0 159.0



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

11.12

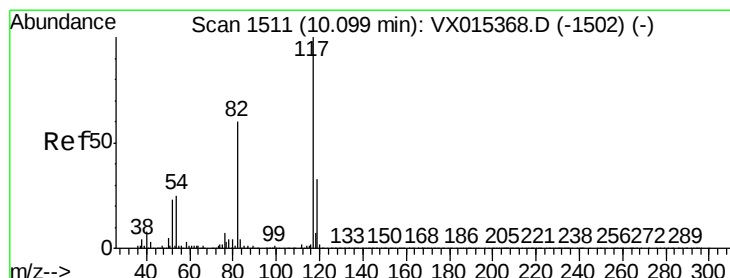
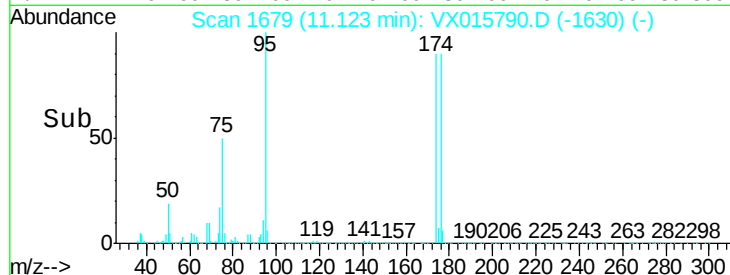
600000

400000

200000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. 0.00 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

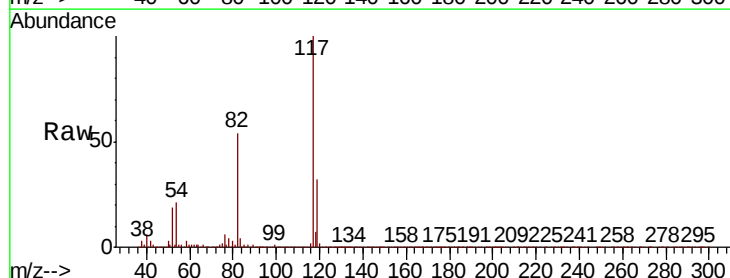
Tgt Ion: 117 Resp: 1572414

Ion Ratio Lower Upper

117 100

82 53.5 47.8 71.8

119 31.8 26.8 40.2



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

10.10

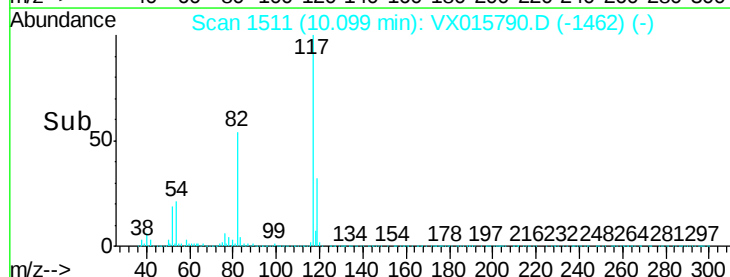
1500000

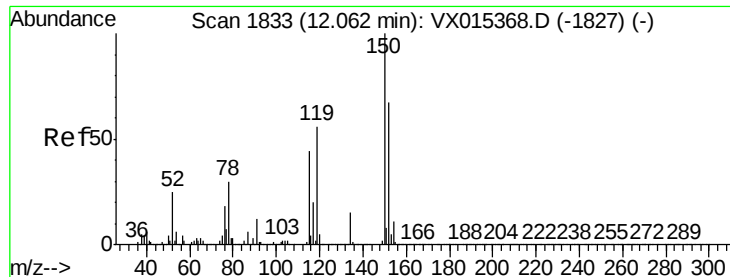
1000000

500000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampled :

PB128313TB

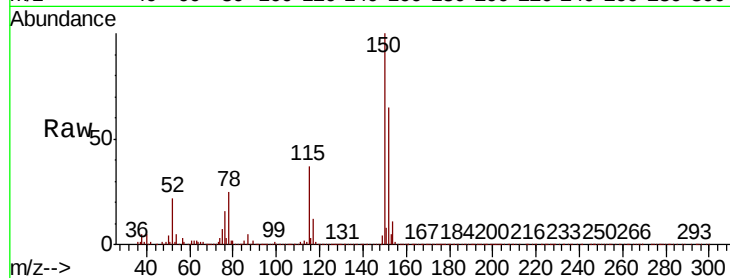
Tot Ion:152 Resp: 856954

Ion Ratio Lower Upper

152 100

115 54.5 39.0 116.9

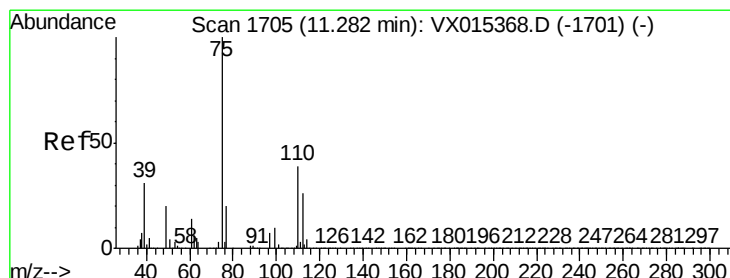
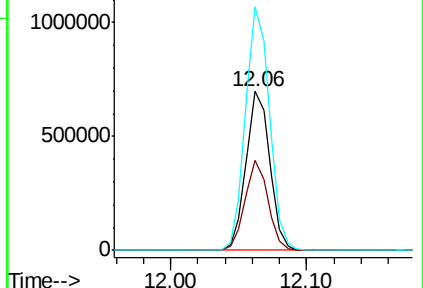
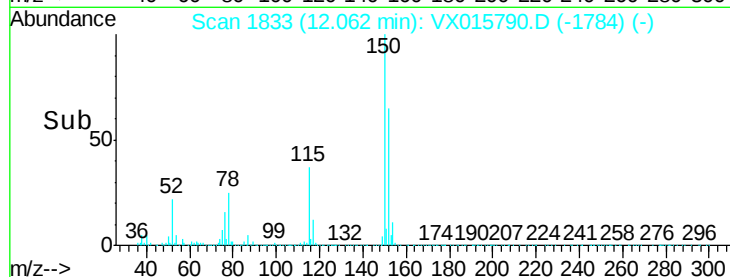
150 154.5 0.0 340.8



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: 22.732 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015790.D

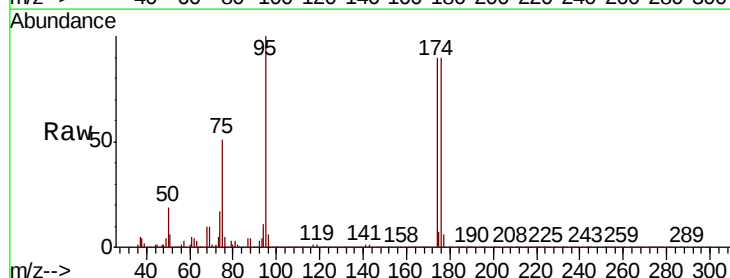
Acq: 21 Apr 2020 13:37

Tgt Ion: 75 Resp: 400588

Ion Ratio Lower Upper

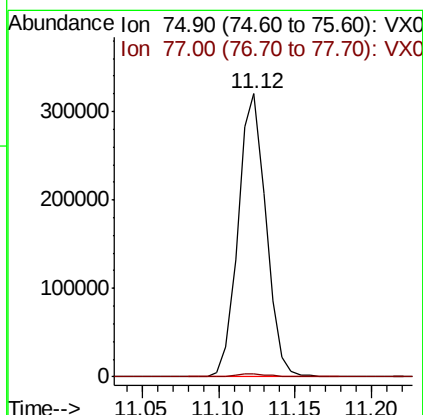
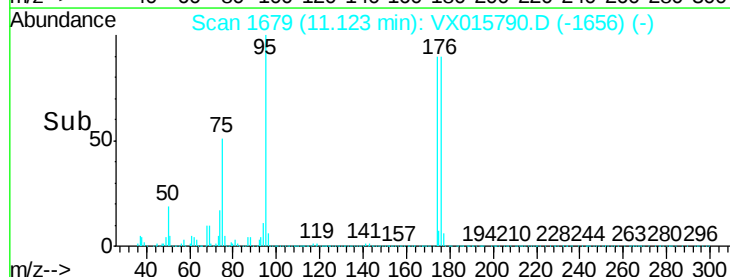
75 100

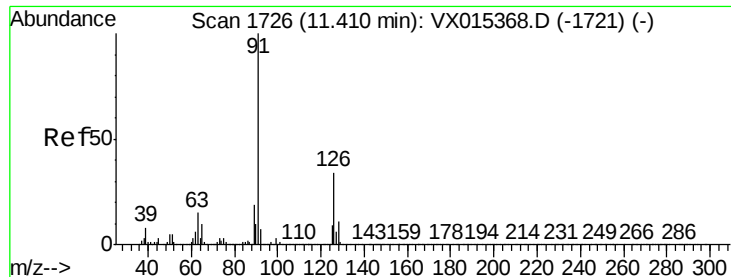
77 1.4 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

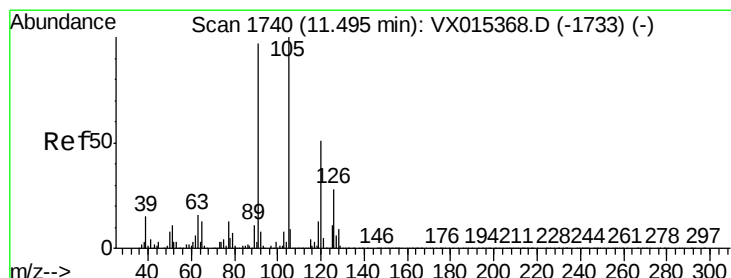
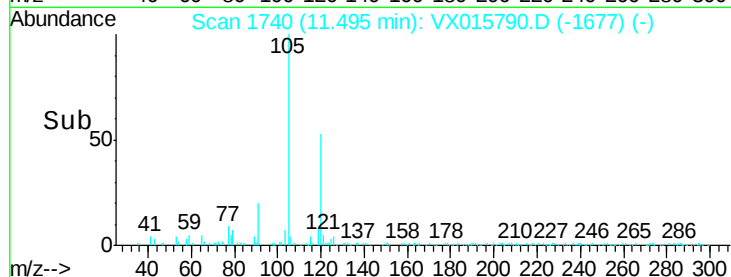
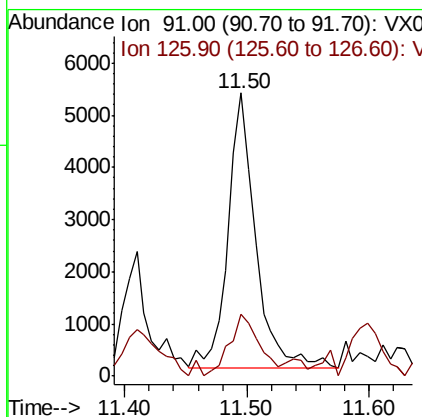
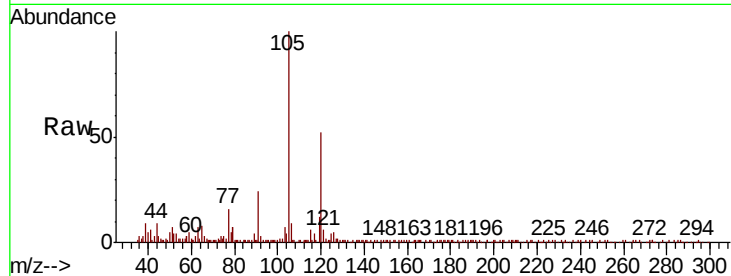




#79
 2-Chlorotoluene
 Concen: 0.209 ug/l
 RT: 11.50 min Scan# 1740
 Delta R.T. 0.09 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

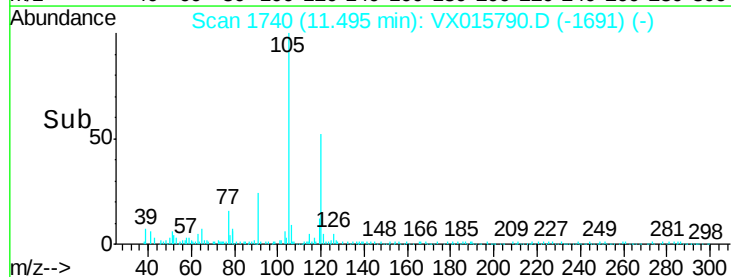
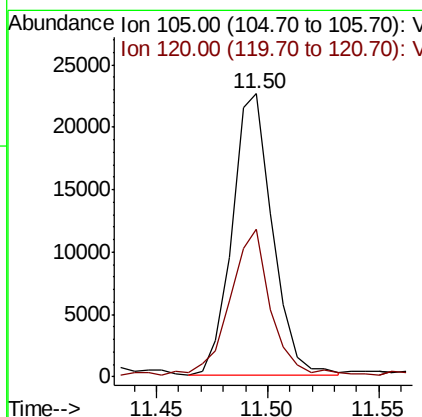
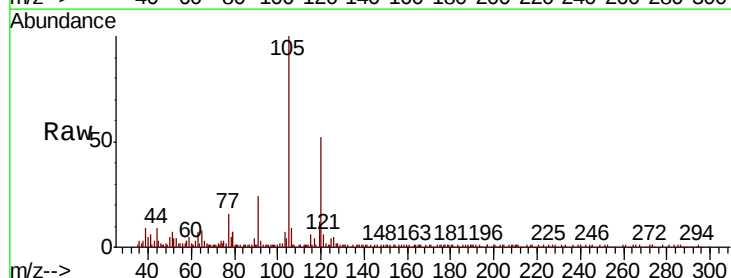
Instrument :
 MSVOA_X
 ClientSampled :
 PB128313TB

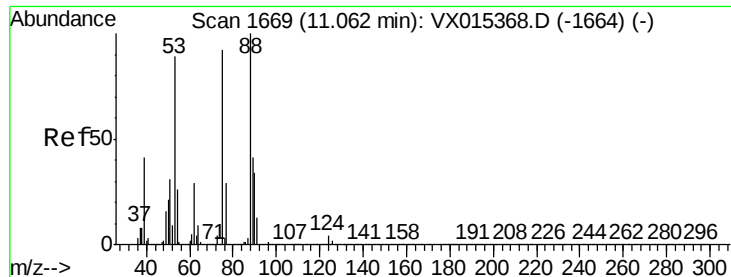
Tot Ion: 91 Resp: 8219
 Ion Ratio Lower Upper
 91 100
 126 24.3 16.5 49.5



#80
 1,3,5-Trimethylbenzene
 Concen: 0.592 ug/l
 RT: 11.50 min Scan# 1740
 Delta R.T. 0.00 min
 Lab File: VX015790.D
 Acq: 21 Apr 2020 13:37

Tgt Ion: 105 Resp: 28374
 Ion Ratio Lower Upper
 105 100
 120 51.9 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 54.543 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

Instrument :

MSVOA_X

ClientSampleId :

PB128313TB

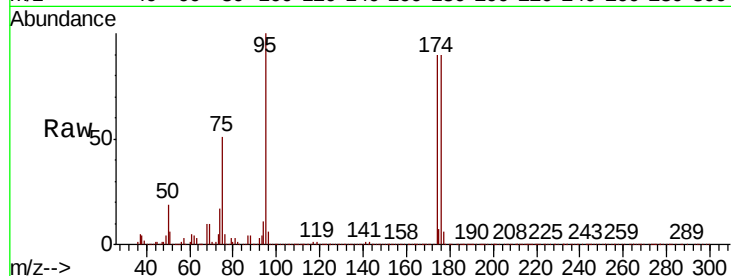
Tot Ion: 75 Resp: 400588

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

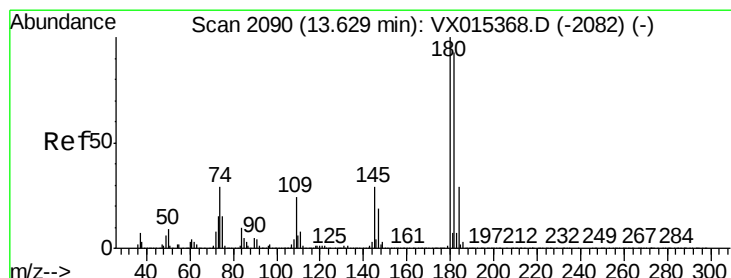
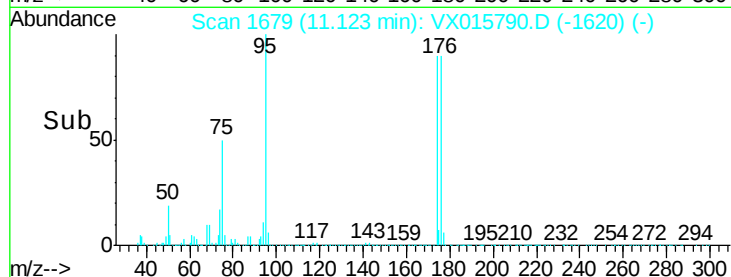
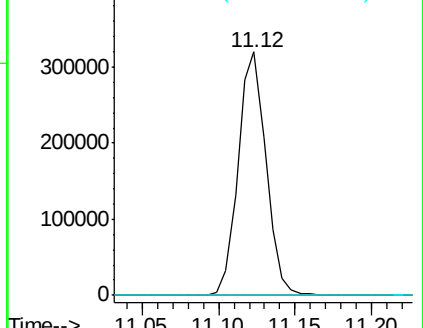
89 0.1 36.1 54.1#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.296 ug/l

RT: 13.63 min Scan# 2090

Delta R.T. 0.00 min

Lab File: VX015790.D

Acq: 21 Apr 2020 13:37

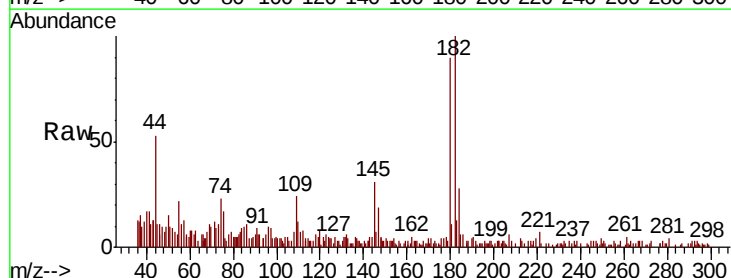
Tgt Ion:180 Resp: 6144

Ion Ratio Lower Upper

180 100

182 99.1 46.9 140.7

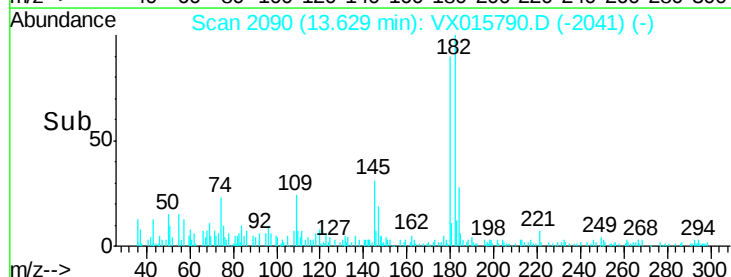
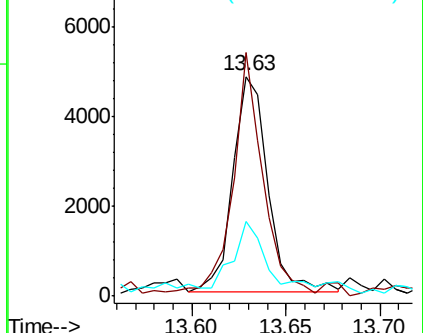
145 27.2 14.9 44.5

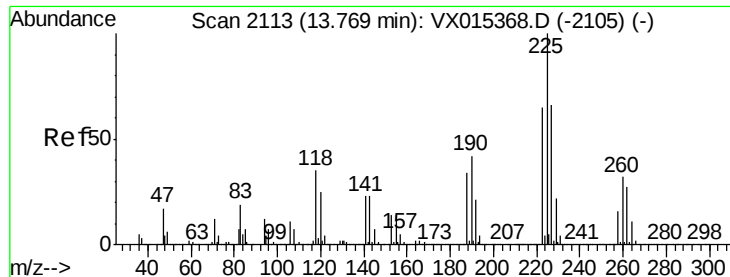


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

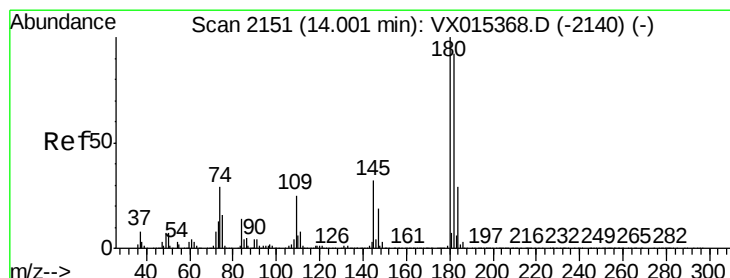
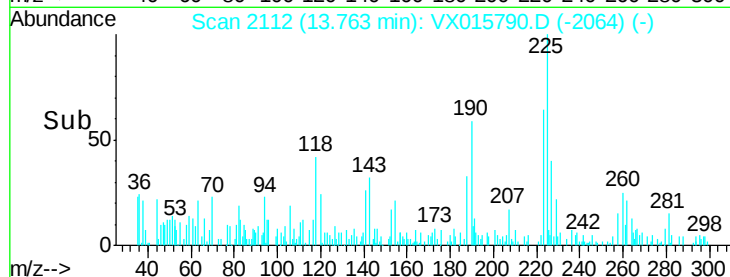
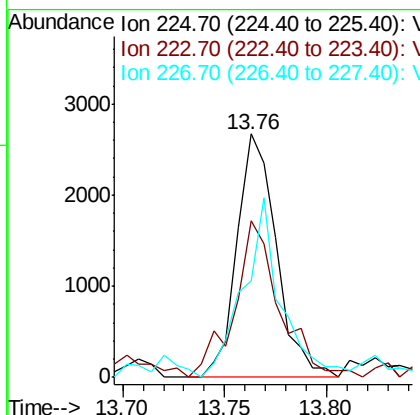
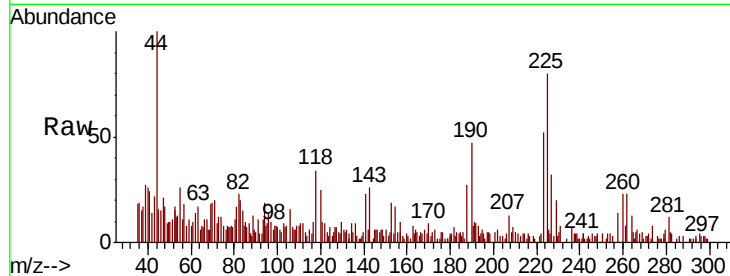




#94
Hexachlorobutadiene
Concen: 0.361 ug/l
RT: 13.76 min Scan# 2112
Delta R.T. -0.01 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

Instrument :
MSVOA_X
ClientSampleId :
PB128313TB

Tot Ion:225 Resp: 3571
Ion Ratio Lower Upper
225 100
223 74.3 31.9 95.7
227 70.7 30.4 91.3



#96
1,2,3-Trichlorobenzene
Concen: 0.231 ug/l
RT: 14.01 min Scan# 2152
Delta R.T. 0.01 min
Lab File: VX015790.D
Acq: 21 Apr 2020 13:37

Tgt Ion:180 Resp: 4610
Ion Ratio Lower Upper
180 100
182 107.9 46.7 140.0
145 30.8 15.8 47.3

