

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011020\
 Data File : VX014547.D
 Acq On : 10 Jan 2020 19:04
 Operator : JC/SP
 Sample : L1084-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AF-3

Quant Time: Jan 10 23:37:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	472650	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	734914	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	678383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	305827	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	265889	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
35) Dibromofluoromethane	5.49	113	220617	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
50) Toluene-d8	8.71	98	879227	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.14	95	301710	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	

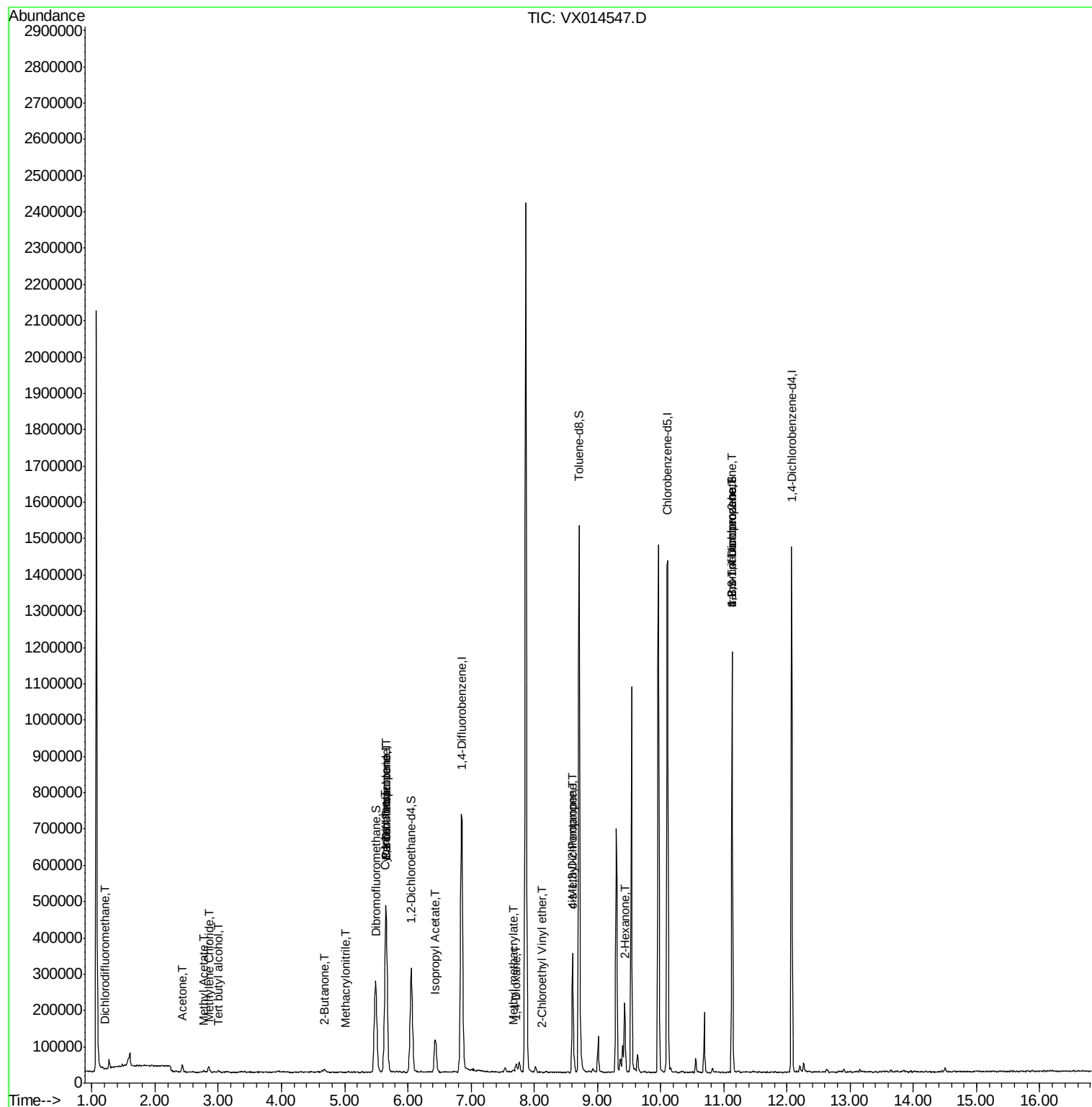
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	219	0.290	ug/l #	14
6) Chloroethane	1.69	64	1020	Below Cal	#	54
11) Tert butyl alcohol	3.00	59	2394	2.173	ug/l #	90
16) Acetone	2.44	43	22251	4.304	ug/l	94
18) Methyl Acetate	2.77	43	6089	0.803	ug/l	98
20) Methylene Chloride	2.85	84	8562	1.613	ug/l	94
25) 2-Butanone	4.67	43	3920	0.995	ug/l	93
31) Cyclohexane	5.64	56	8663	1.074	ug/l #	10
36) 1,1-Dichloropropene	5.65	75	31162	4.509	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41870	6.583	ug/l #	17
41) Methacrylonitrile	5.02	41	934	0.233	ug/l #	29
43) Isopropyl Acetate	6.43	43	131806	10.869	ug/l	98
48) Methyl methacrylate	7.67	41	7972	1.373	ug/l #	16
49) 1,4-Dioxane	7.73	88	229	1.861	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	122268	16.545	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	56314	6.742	ug/l #	58
58) 2-Chloroethyl Vinyl ether	8.14	63	1038	0.378	ug/l	96
59) 2-Hexanone	9.43	43	148626	25.418	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	147438	23.301	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	147438	61.603	ug/l #	12
88) 1,4-Dichlorobenzene	12.10	146	172	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	13.37	180	139	Below Cal		63
96) 1,2,3-Trichlorobenzene	14.02	180	244	Below Cal	#	11

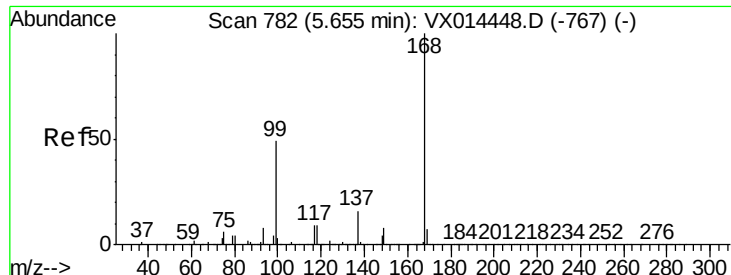
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

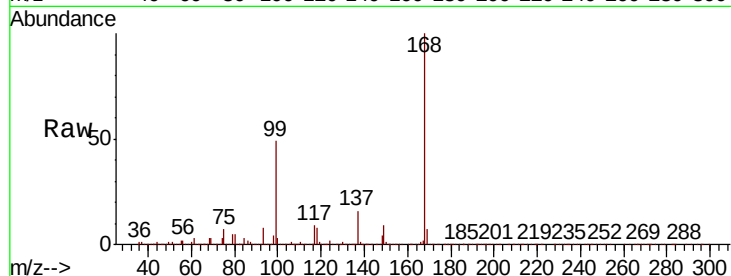
AF-3

Tot Ion:168 Resp: 472650

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

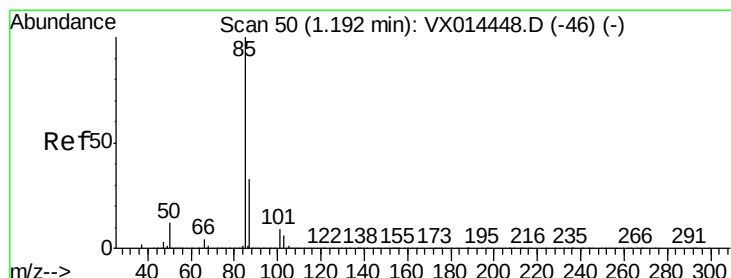
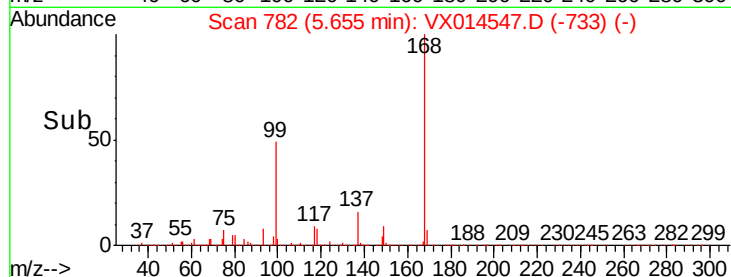
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.290 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014547.D

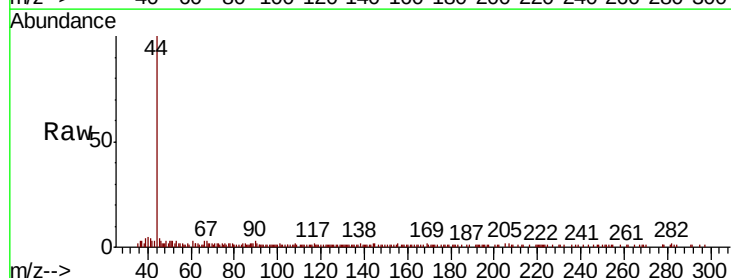
Acq: 10 Jan 2020 19:04

Tgt Ion: 85 Resp: 219

Ion Ratio Lower Upper

85 100

87 81.4 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

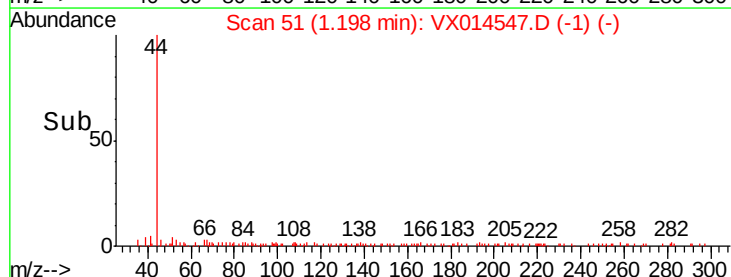
300

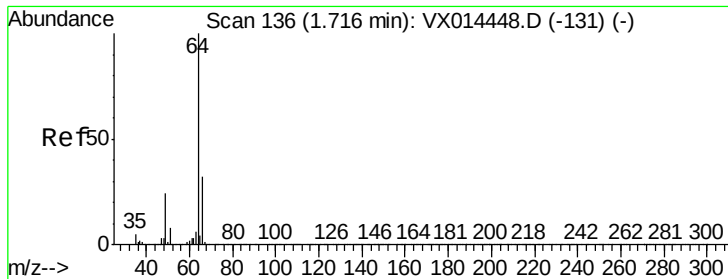
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.03 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

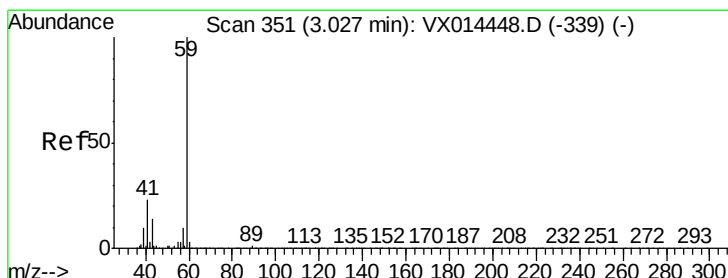
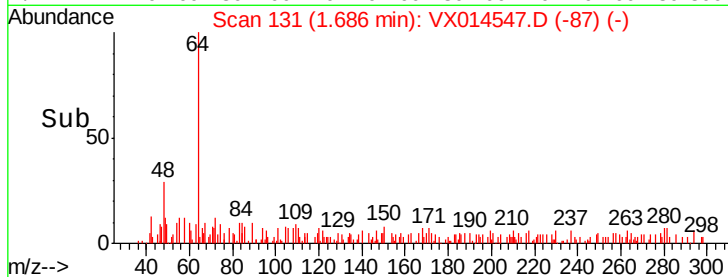
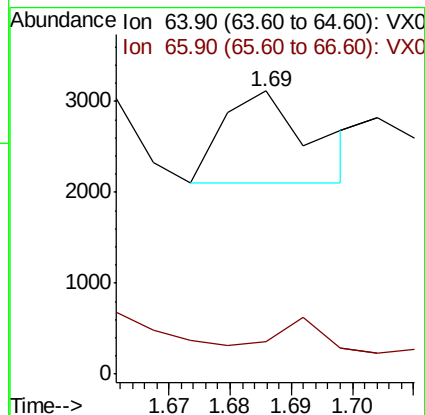
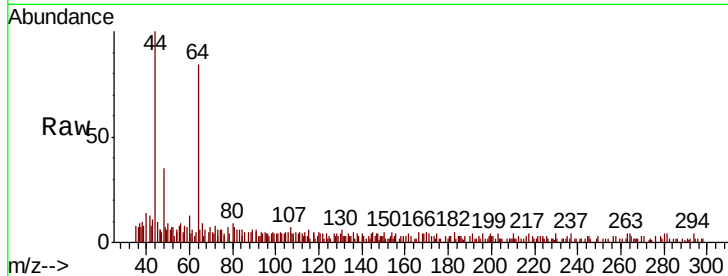
AF-3

Tot Ion: 64 Resp: 1020

Ion Ratio Lower Upper

64 100

66 6.3 25.3 37.9#



#11

Tert butyl alcohol

Concen: 2.173 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.02 min

Lab File: VX014547.D

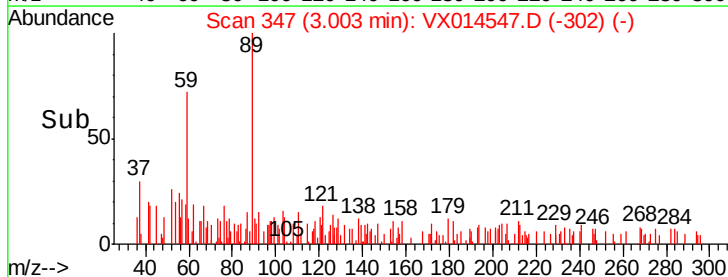
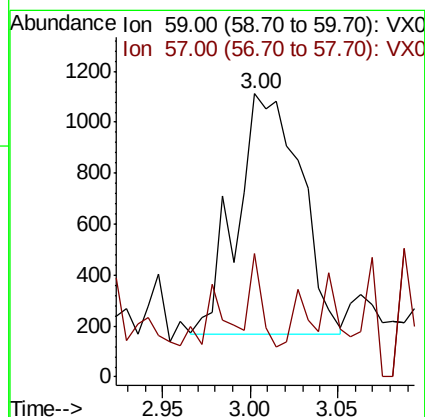
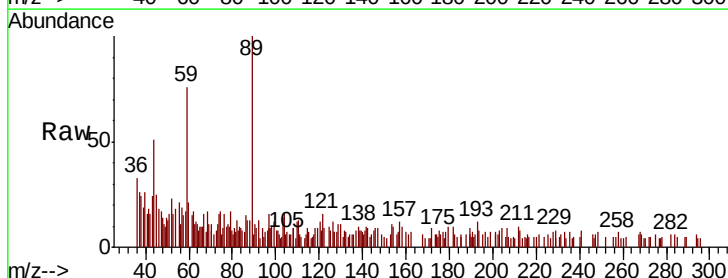
Acq: 10 Jan 2020 19:04

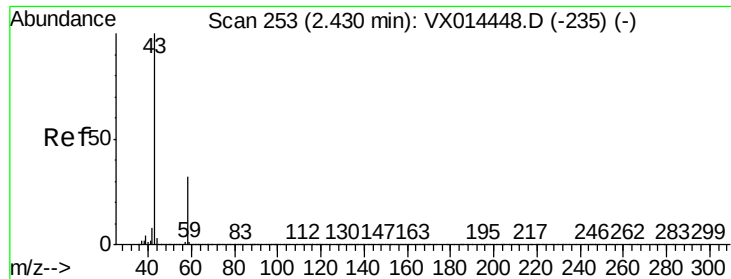
Tgt Ion: 59 Resp: 2394

Ion Ratio Lower Upper

59 100

57 6.8 8.5 12.7#





#16

Acetone

Concen: 4.304 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

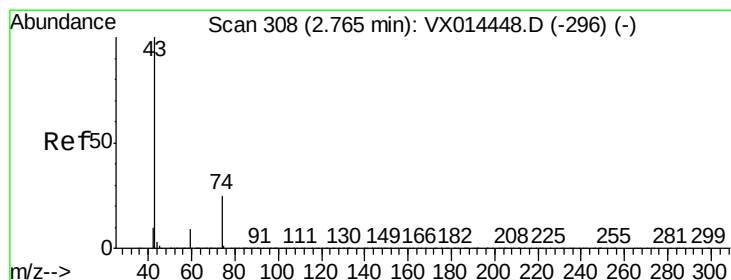
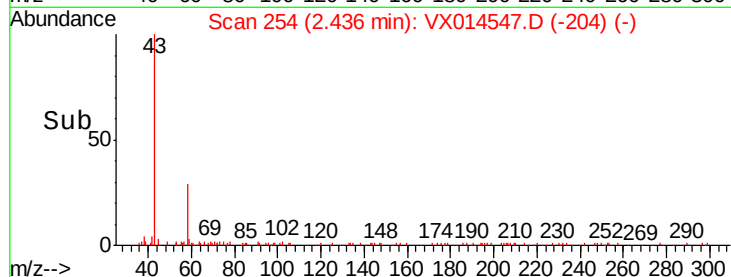
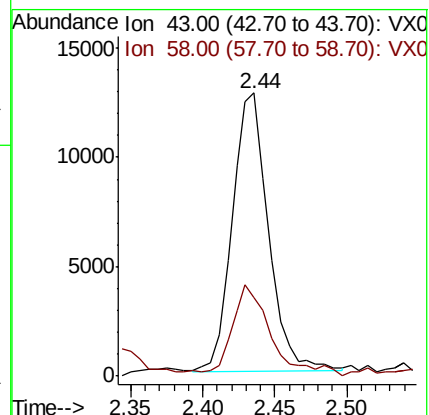
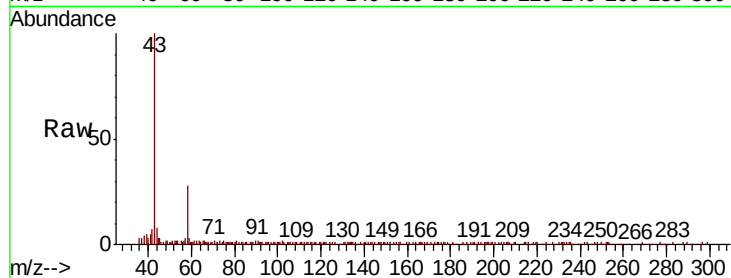
AF-3

Tot Ion: 43 Resp: 22251

Ion Ratio Lower Upper

43 100

58 28.4 25.4 38.0



#18

Methyl Acetate

Concen: 0.803 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX014547.D

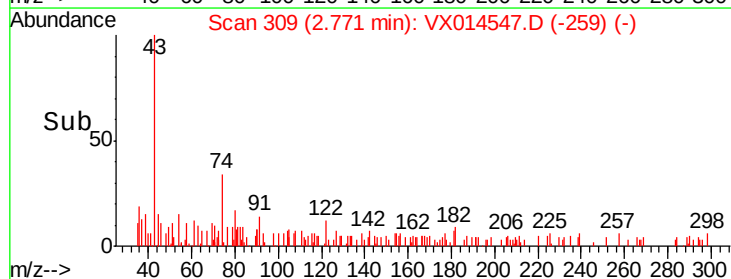
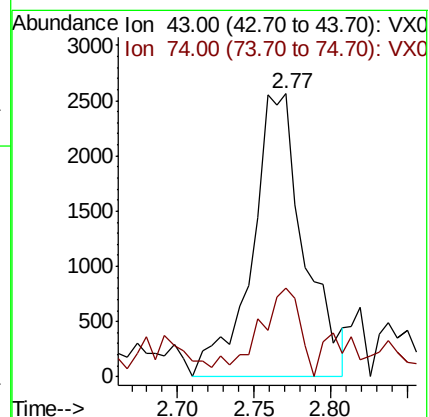
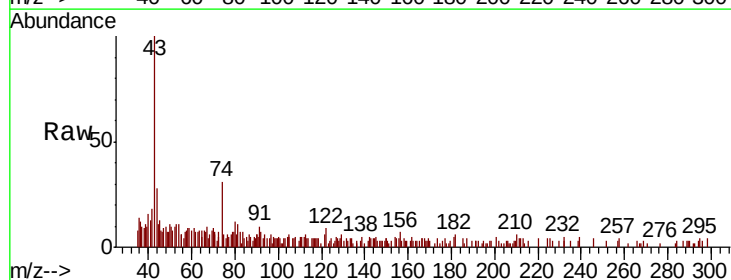
Acq: 10 Jan 2020 19:04

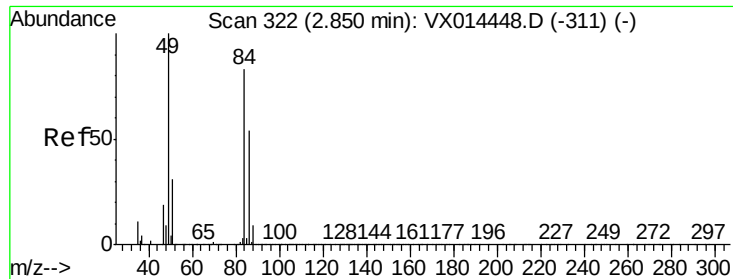
Tgt Ion: 43 Resp: 6089

Ion Ratio Lower Upper

43 100

74 25.1 19.4 29.2

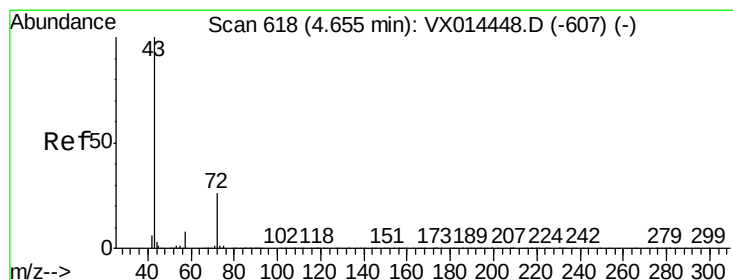
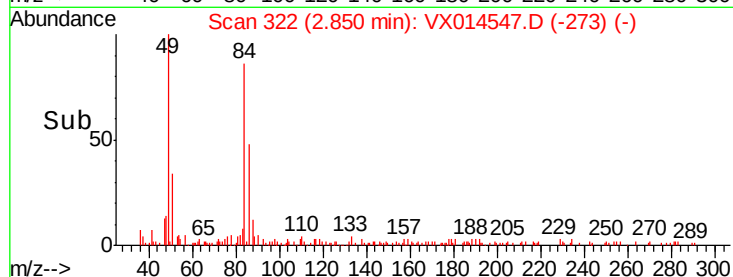
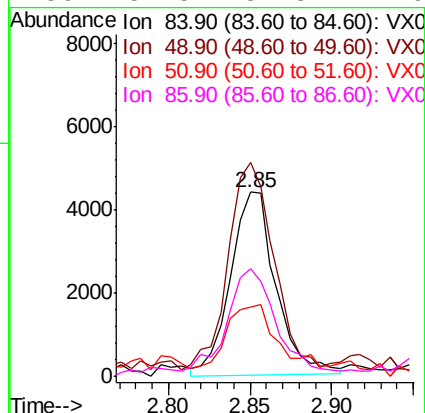
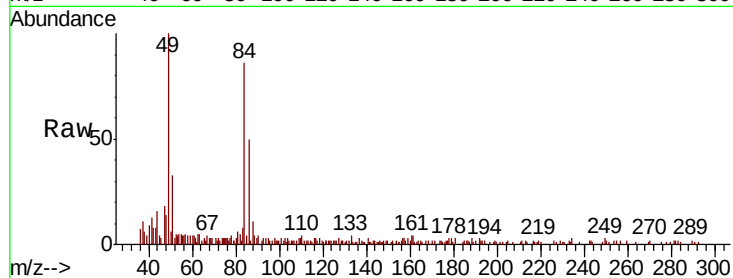




#20
Methylene Chloride
Concen: 1.613 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

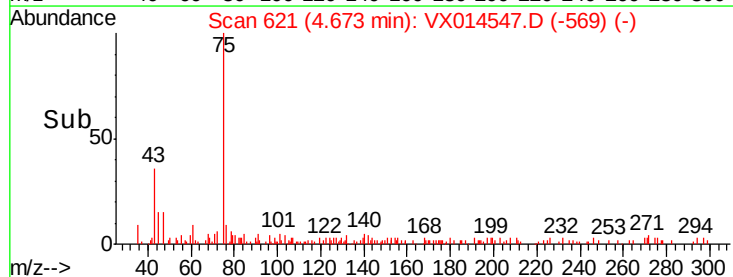
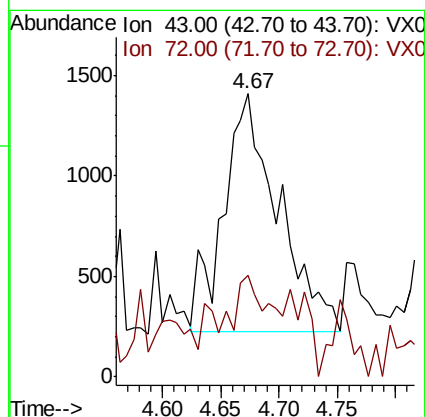
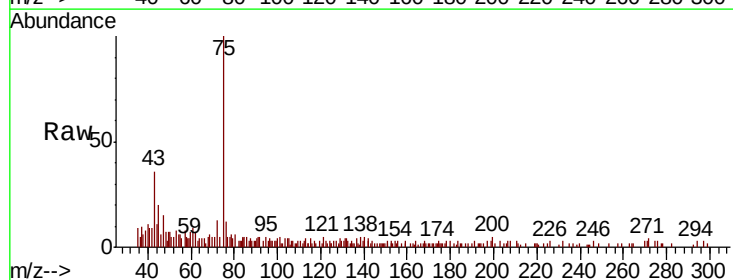
Instrument :
MSVOA_X
ClientSampleId :
AF-3

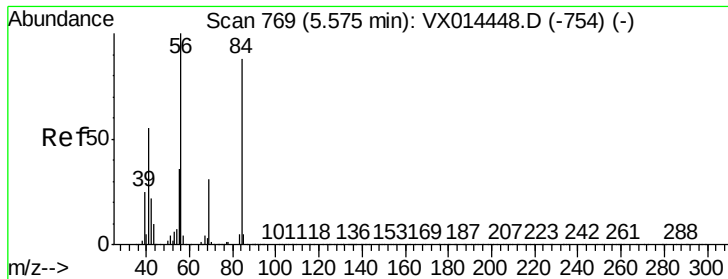
Tot Ion:	84	Resp:	8562
Ion	Ratio	Lower	Upper
84	100		
49	114.0	95.8	143.8
51	35.2	30.2	45.4
86	57.5	51.8	77.6



#25
2-Butanone
Concen: 0.995 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion:	43	Resp:	3920
Ion	Ratio	Lower	Upper
43	100		
72	22.3	20.6	31.0

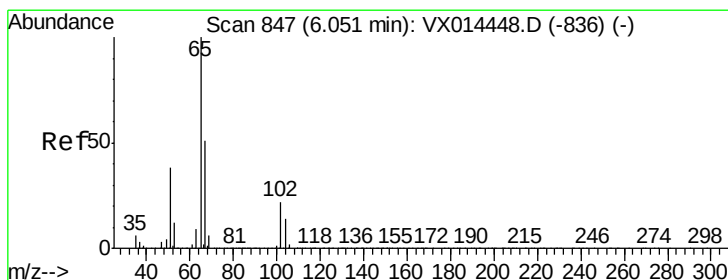
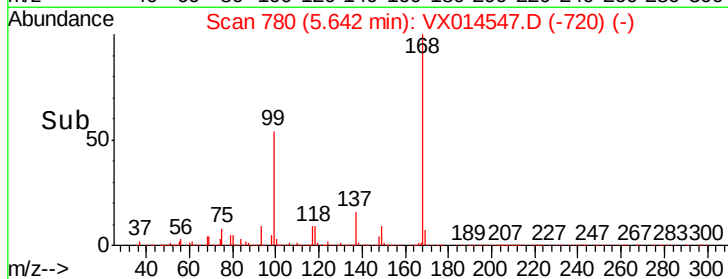
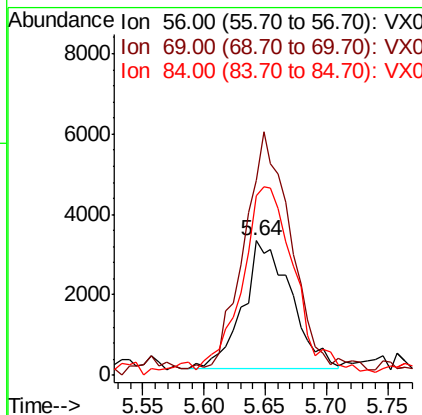
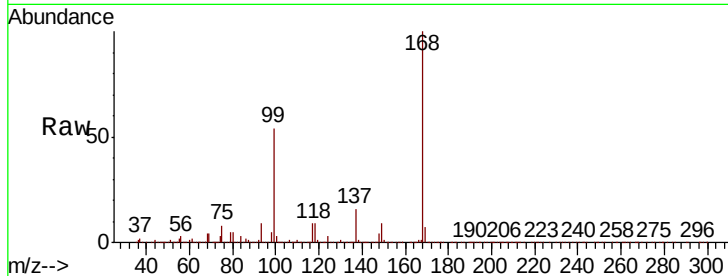




#31
Cyclohexane
Concen: 1.074 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

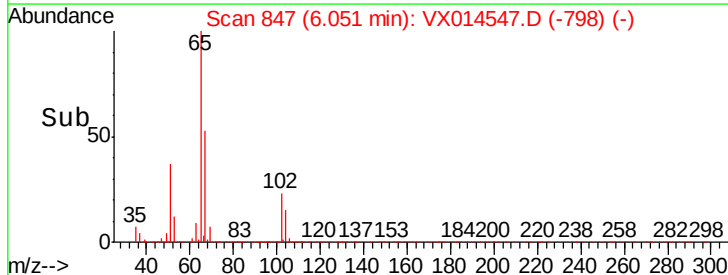
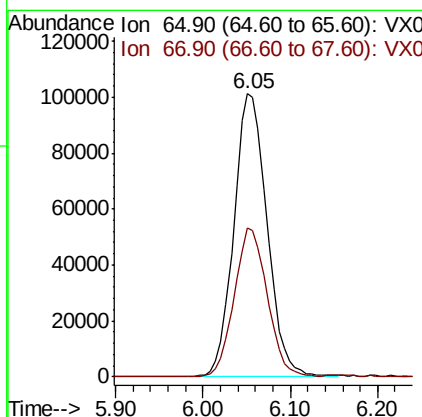
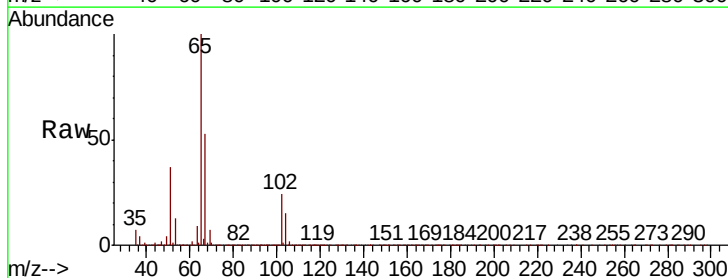
Instrument :
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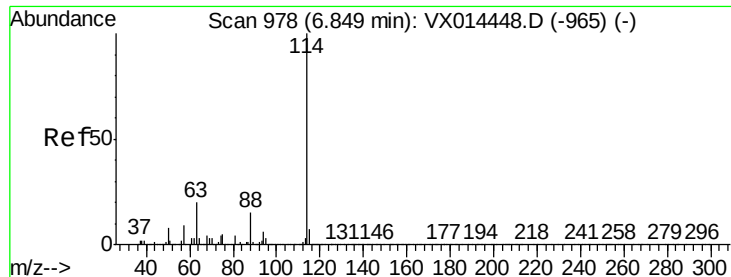
Tot Ion: 56 Resp: 8663
Ion Ratio Lower Upper
56 100
69 147.3 24.4 36.6#
84 132.5 70.6 106.0#



#33
1,2-Dichloroethane-d4
Concen: 50.392 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion: 65 Resp: 265889
Ion Ratio Lower Upper
65 100
67 52.0 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

AF-3

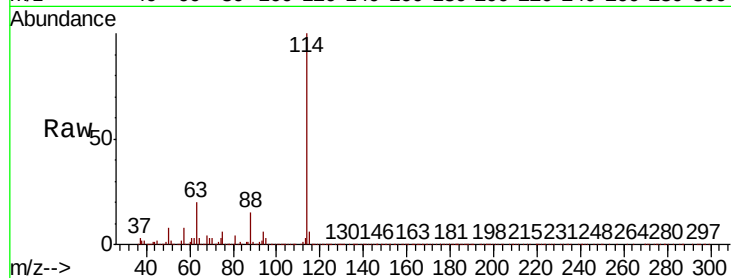
Tot Ion:114 Resp: 734914

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

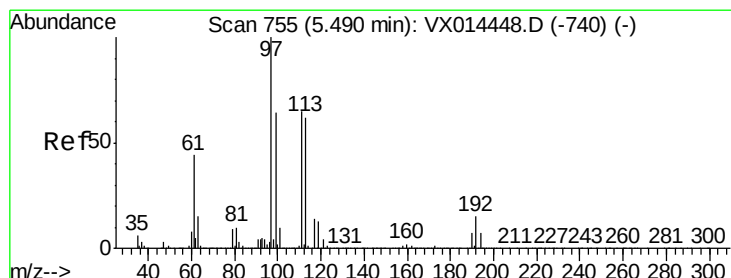
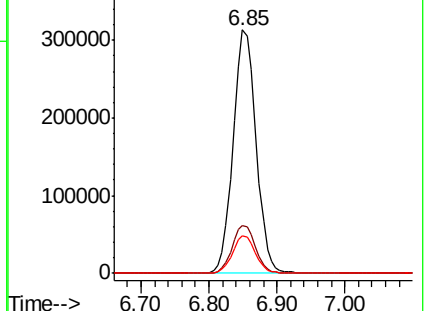
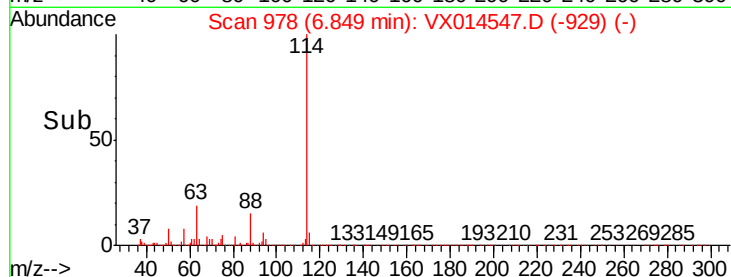
88 15.4 0.0 30.8



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: 49.591 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

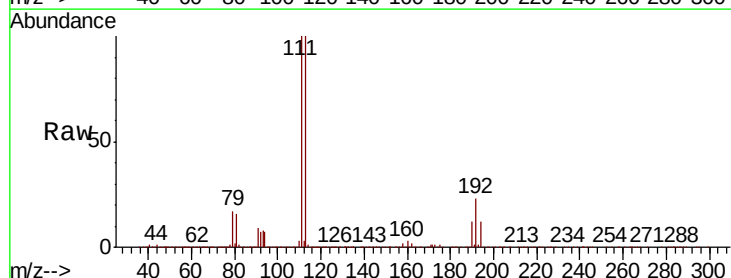
Tgt Ion:113 Resp: 220617

Ion Ratio Lower Upper

113 100

111 101.3 81.5 122.3

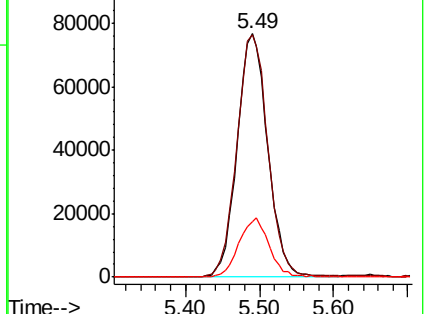
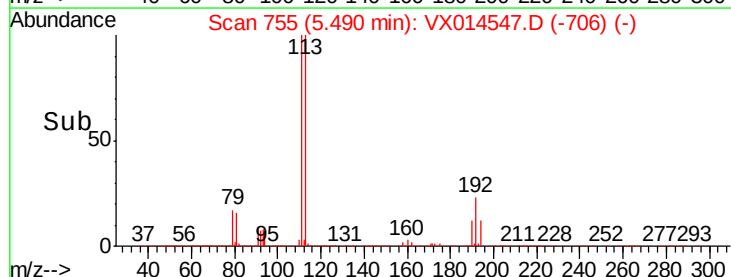
192 24.0 19.2 28.8

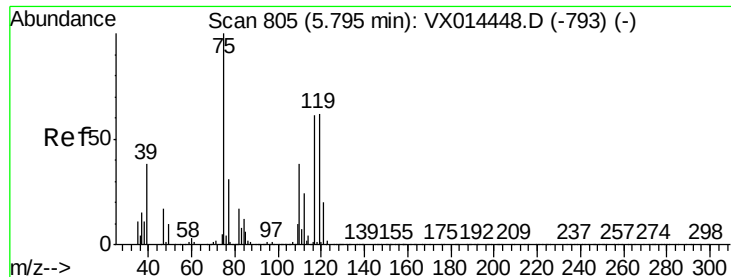


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

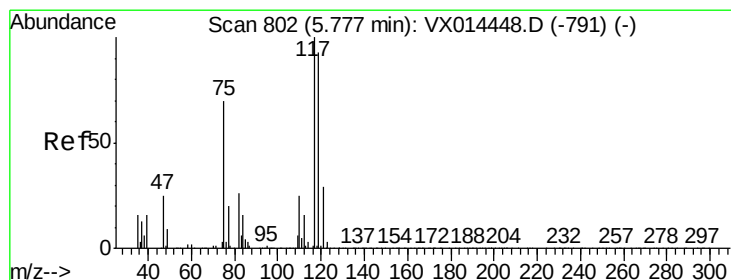
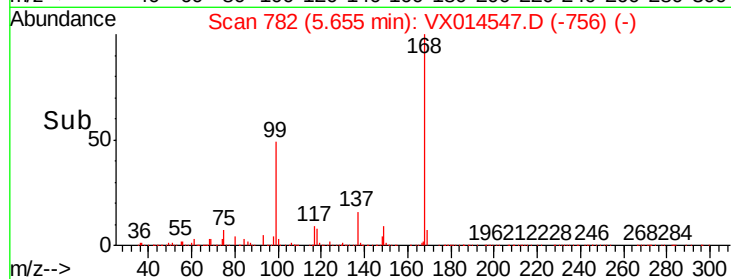
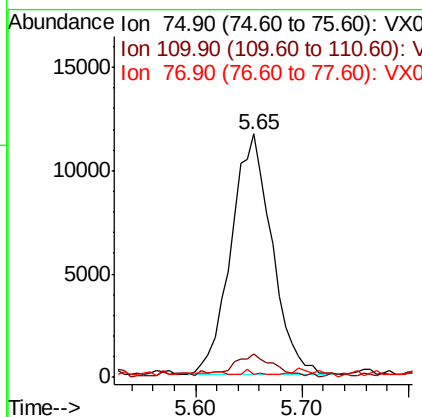
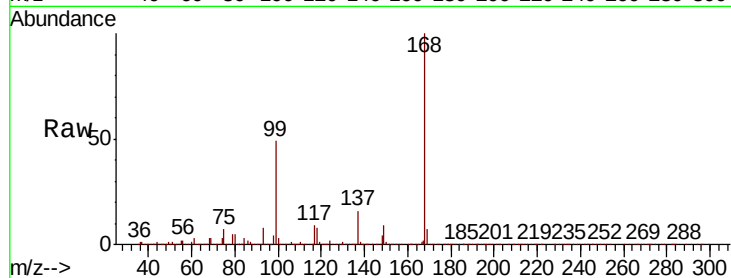




#36
 1,1-Dichloropropene
 Concen: 4.509 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014547.D
 Acq: 10 Jan 2020 19:04

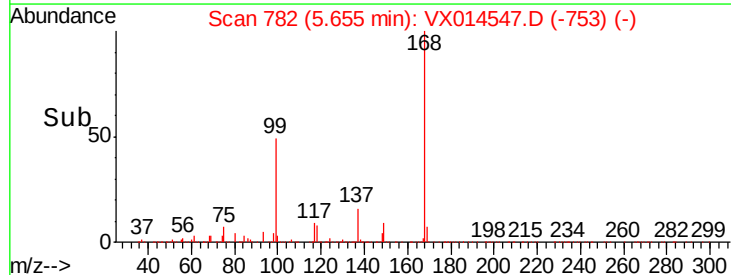
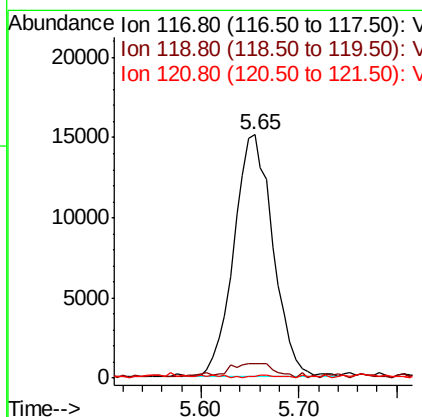
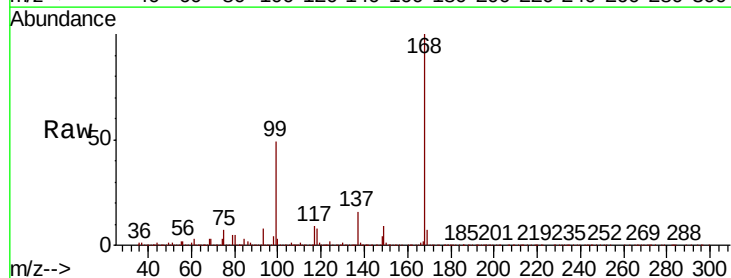
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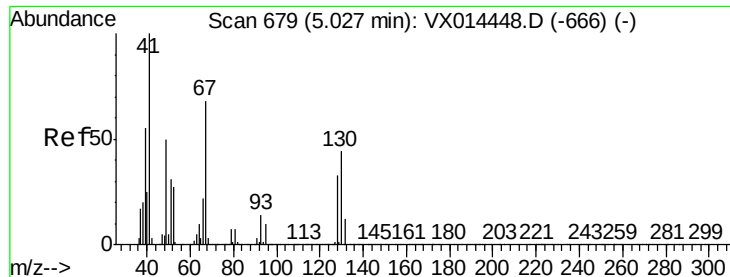
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.6	55.8#
77	0.5	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.583 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014547.D
 Acq: 10 Jan 2020 19:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	73.8	110.8#
121	0.2	23.4	35.0#

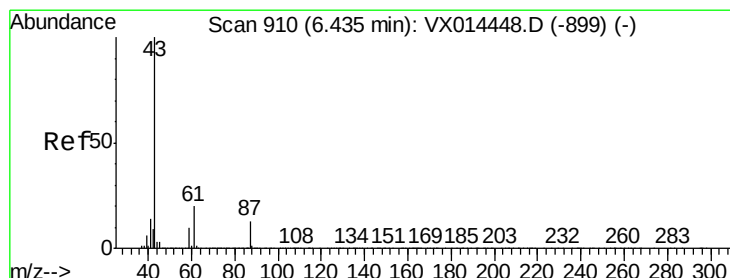
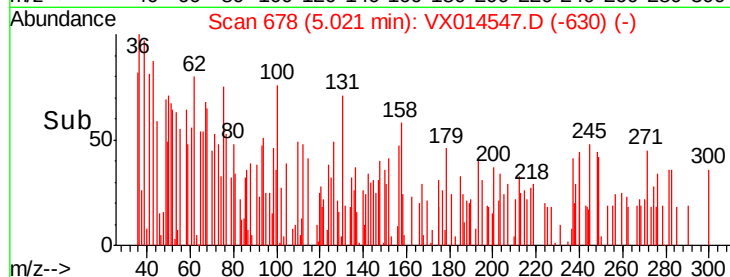
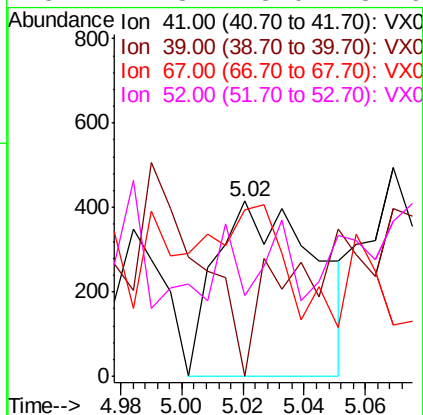
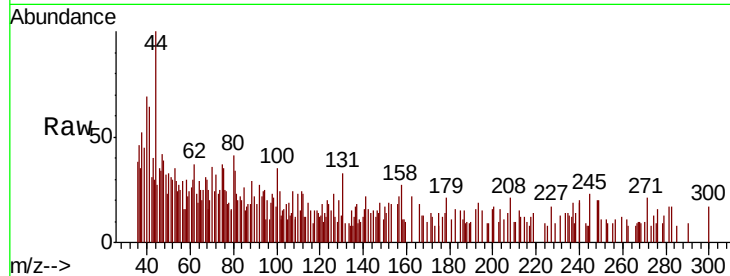




#41
Methacrylonitrile
Concen: 0.233 ug/l
RT: 5.02 min Scan# 678
Delta R.T. -0.01 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

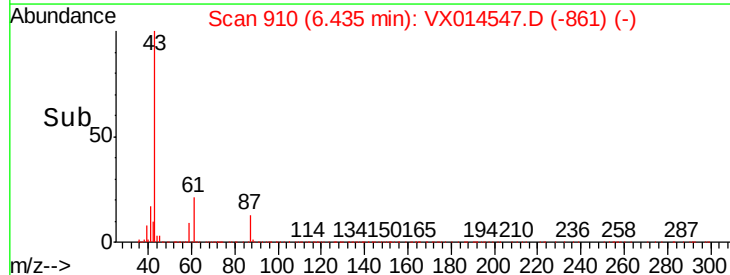
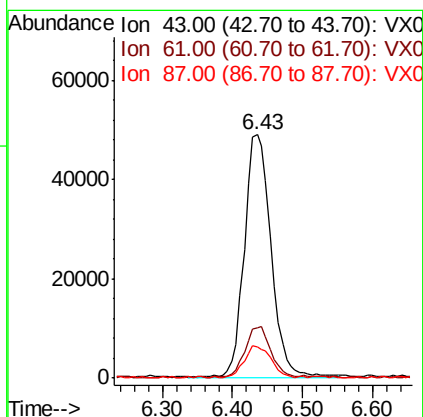
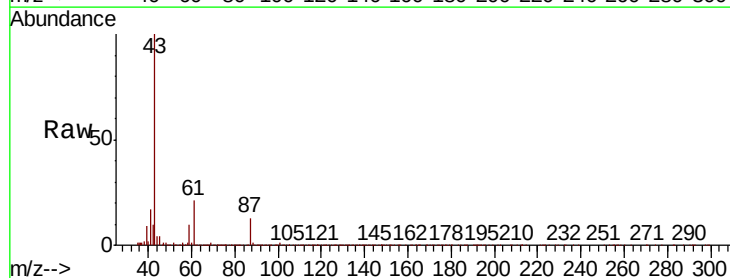
Instrument :
MSVOA_X
ClientSampled :
AF-3

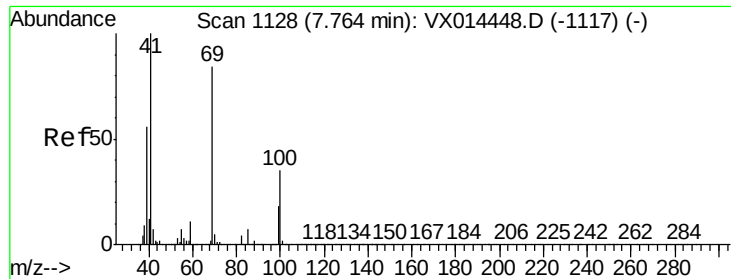
Tot Ion:	41	Resp:	934
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.6	65.4#
67	0.0	57.9	86.9#
52	17.8	23.0	34.6#



#43
Isopropyl Acetate
Concen: 10.869 ug/l
RT: 6.43 min Scan# 910
Delta R.T. -0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion:	43	Resp:	131806
Ion	Ratio	Lower	Upper
43	100		
61	19.7	16.6	24.8
87	12.7	10.8	16.2

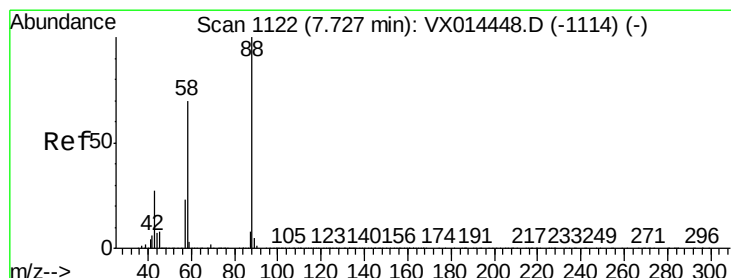
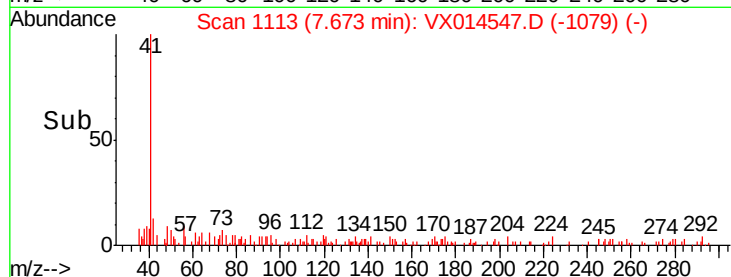
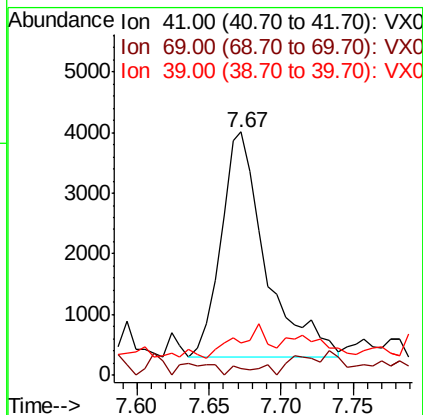
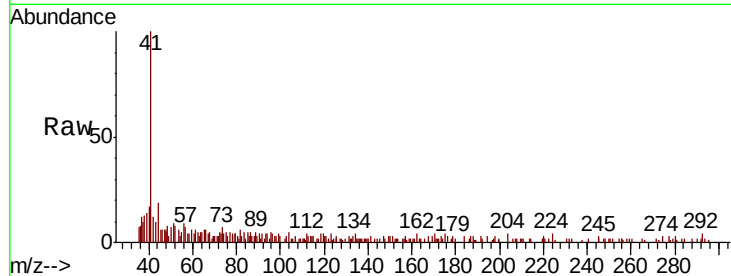




#48
Methvl methacrylate
Concen: 1.373 ug/l
RT: 7.67 min Scan# 1113
Delta R.T. -0.09 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

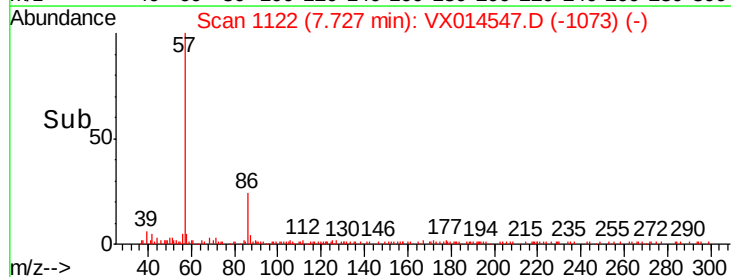
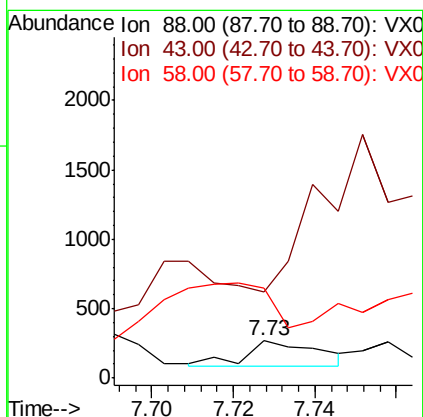
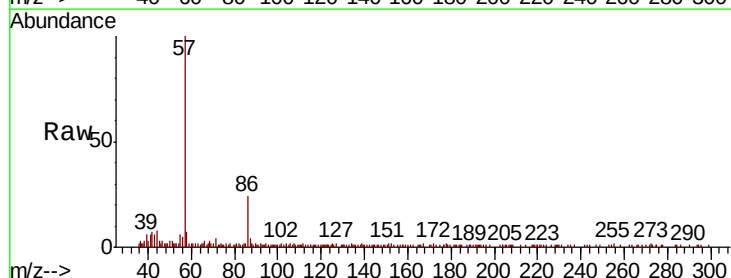
Instrument :
MSVOA_X
ClientSampled :
AF-3

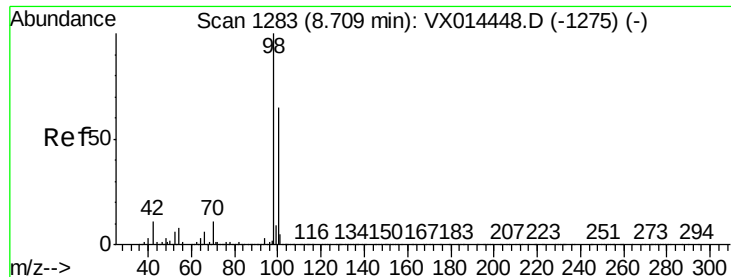
Tot Ion: 41 Resp: 7972
Ion Ratio Lower Upper
41 100
69 1.6 65.5 98.3#
39 0.0 43.9 65.9#



#49
1,4-Dioxane
Concen: 1.861 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion: 88 Resp: 229
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 528.8 57.1 85.7#





#50

Toluene-d8

Concen: 50.928 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

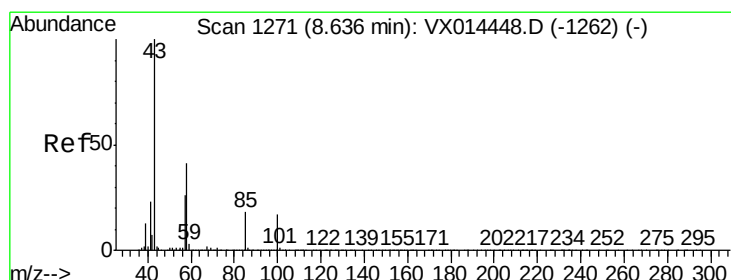
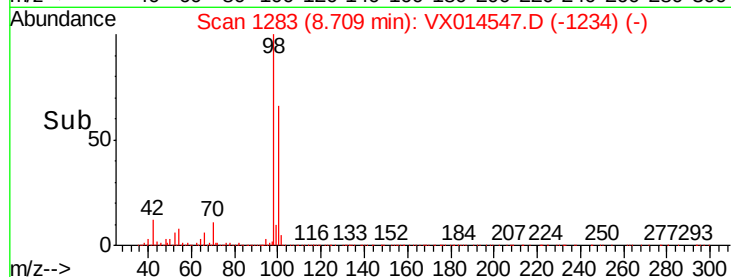
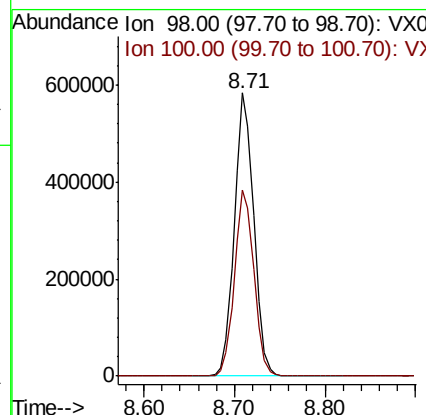
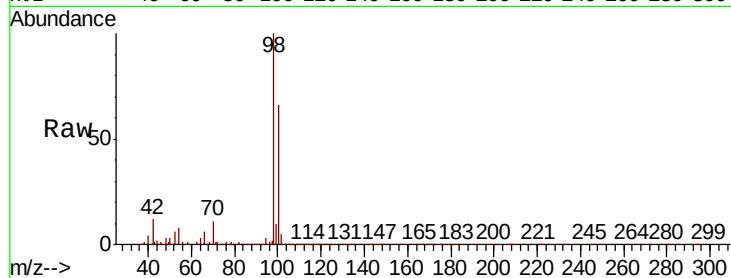
AF-3

Tot Ion: 98 Resp: 879227

Ion Ratio Lower Upper

98 100

100 65.9 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 16.545 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VX014547.D

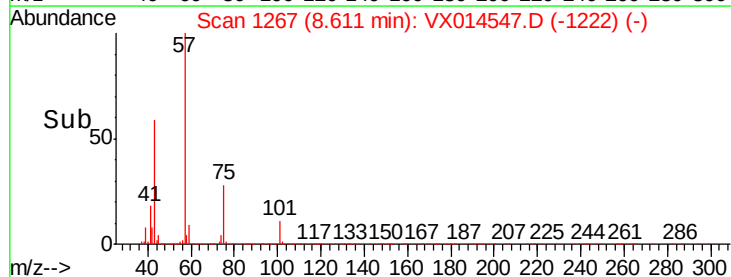
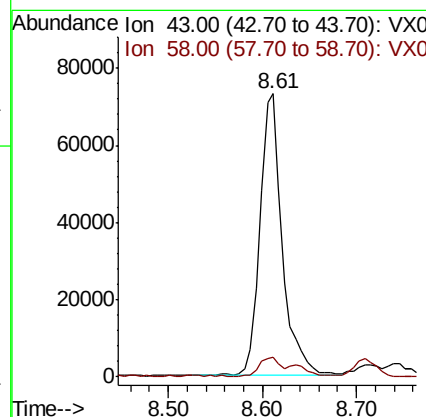
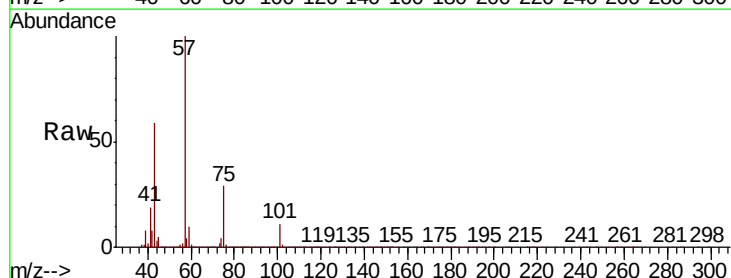
Acq: 10 Jan 2020 19:04

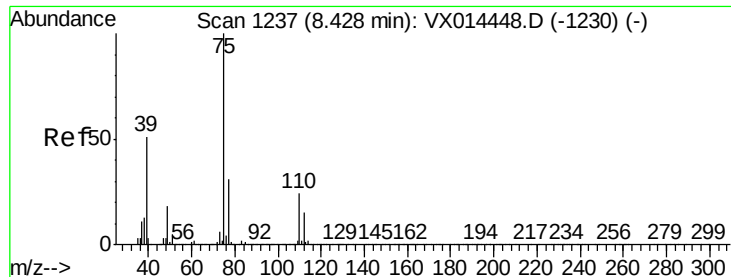
Tgt Ion: 43 Resp: 122268

Ion Ratio Lower Upper

43 100

58 6.0 32.4 48.6#





#54

cis-1,3-Dichloropropene

Concen: 6.742 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. 0.18 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

AF-3

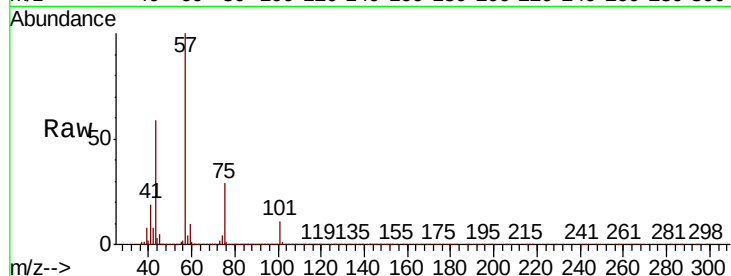
Tot Ion: 75 Resp: 56314

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

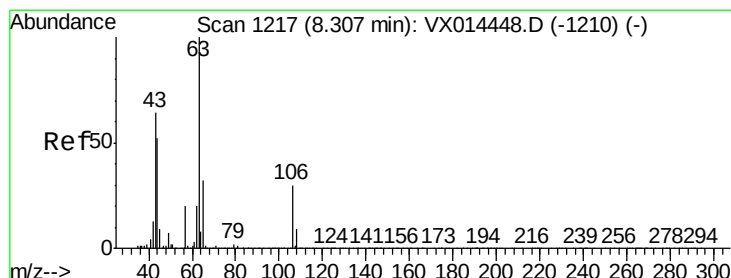
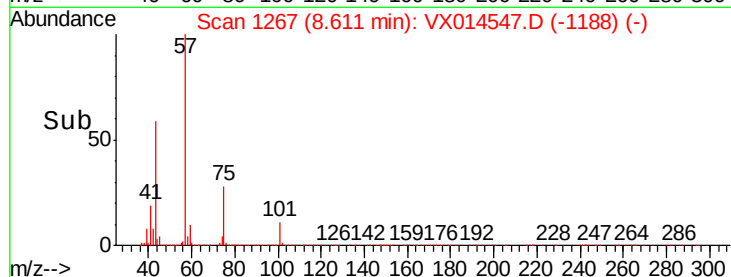
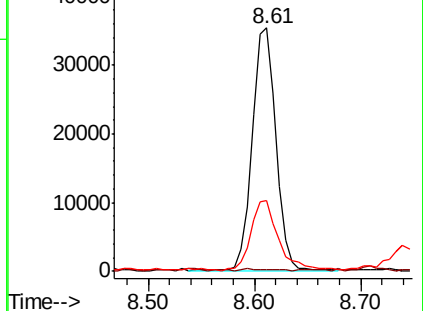
39 28.5 40.7 61.1#



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



#58

2-Chloroethyl Vinyl ether

Concen: 0.378 ug/l

RT: 8.14 min Scan# 1189

Delta R.T. -0.17 min

Lab File: VX014547.D

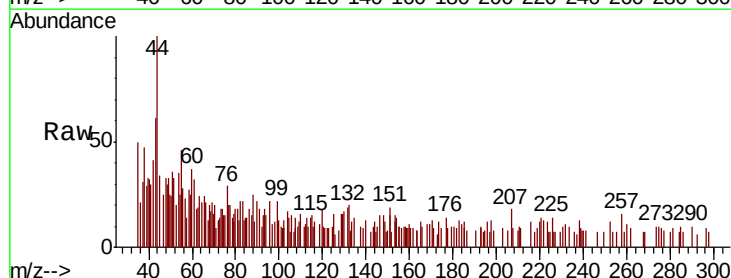
Acq: 10 Jan 2020 19:04

Tgt Ion: 63 Resp: 1038

Ion Ratio Lower Upper

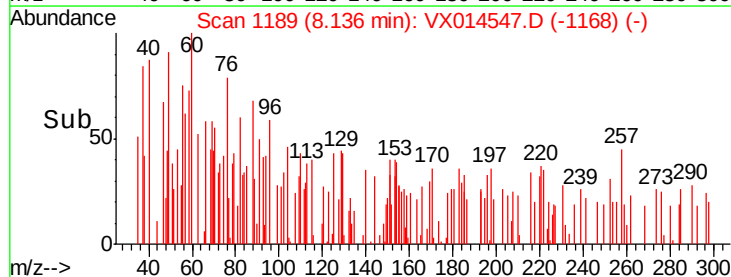
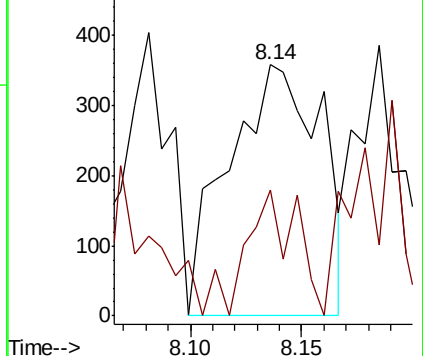
63 100

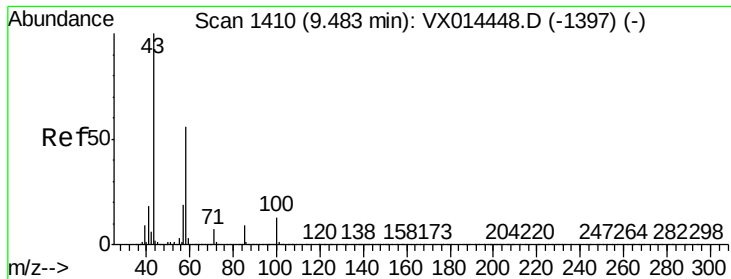
106 27.5 23.6 35.4



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

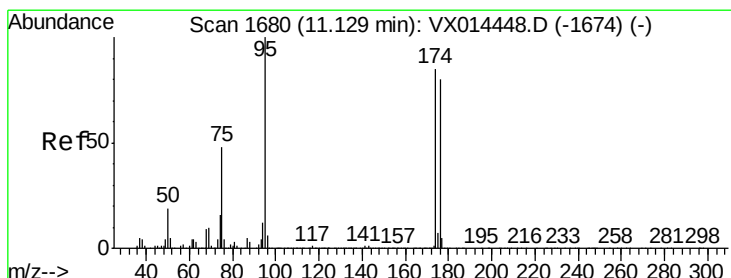
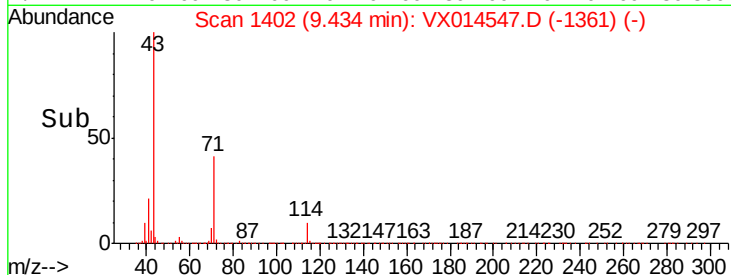
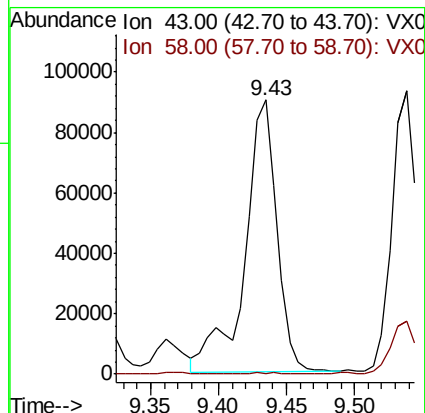
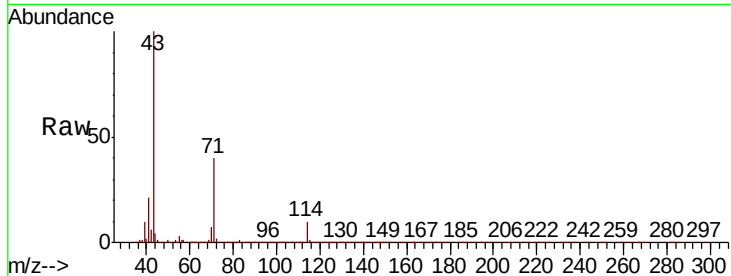




#59
2-Hexanone
Concen: 25.418 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

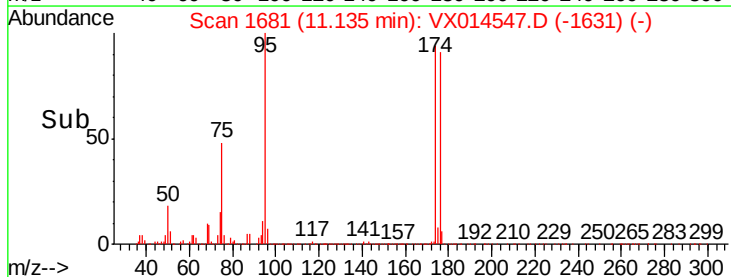
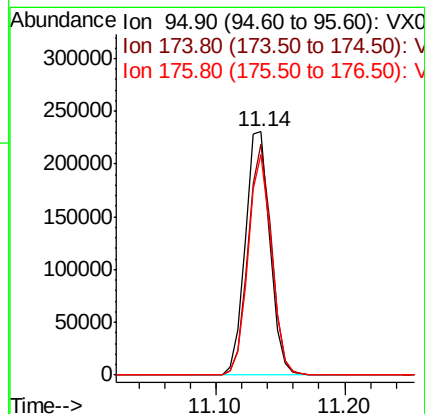
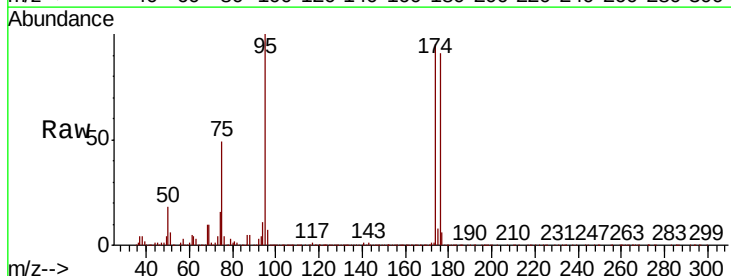
Instrument :
MSVOA_X
ClientSampled :
AF-3

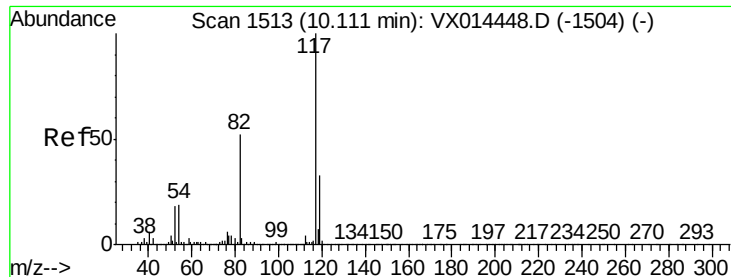
Tot Ion: 43 Resp: 148626
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 47.604 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion: 95 Resp: 301710
Ion Ratio Lower Upper
95 100
174 90.3 0.0 180.8
176 86.3 0.0 172.8

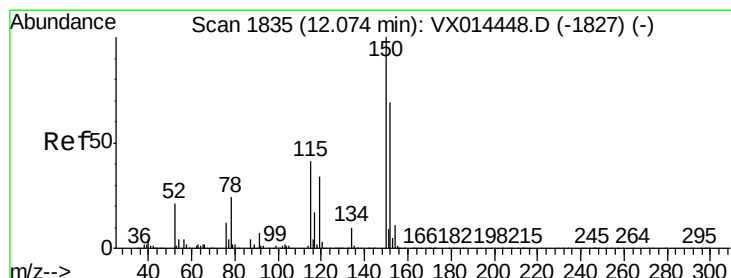
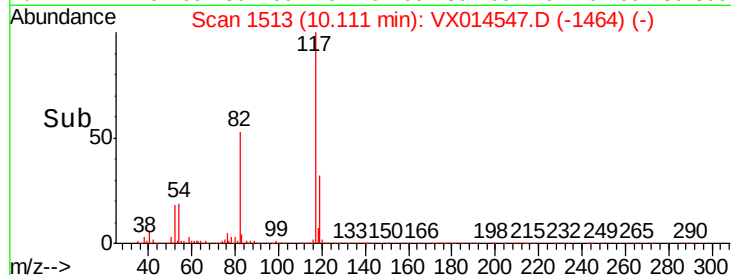
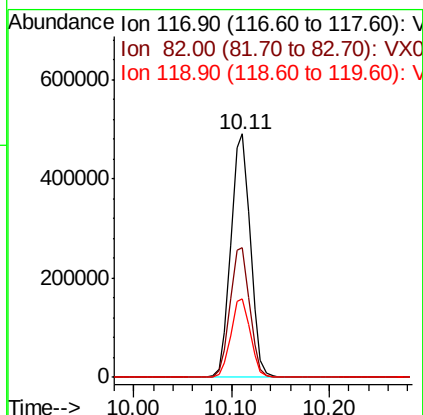
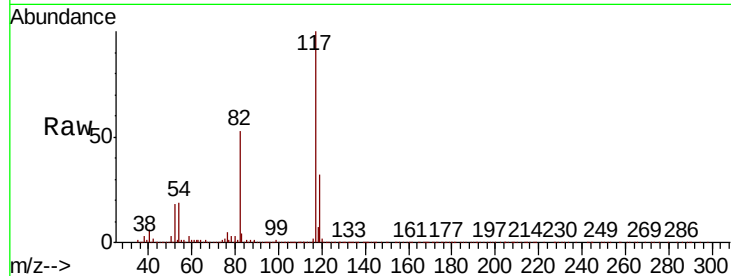




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

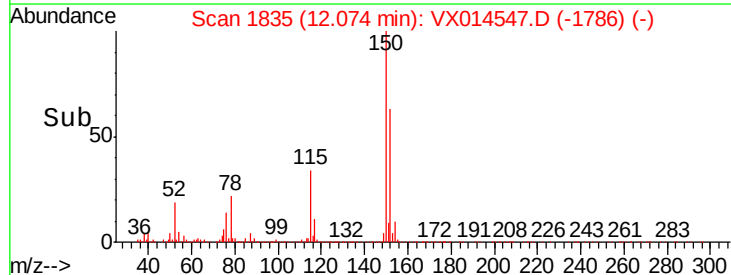
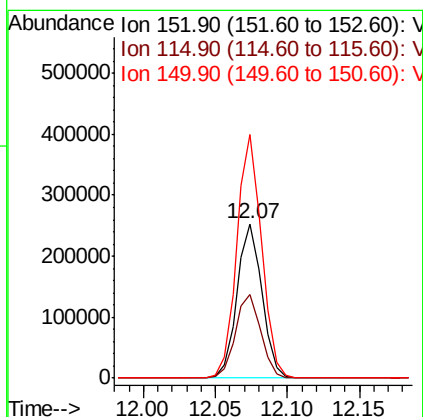
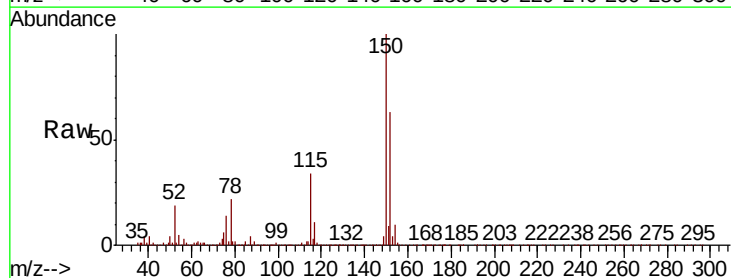
Instrument :
MSVOA_X
ClientSampleId :
AF-3

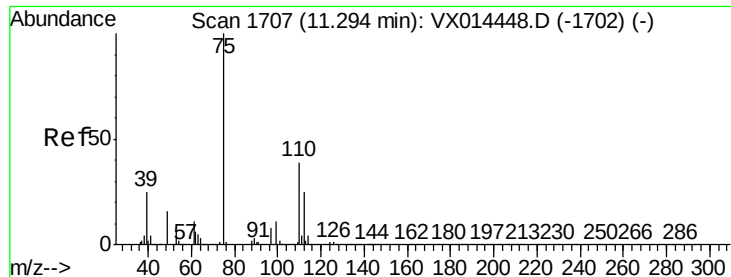
Tot Ion:117 Resp: 678383
Ion Ratio Lower Upper
117 100
82 53.4 41.8 62.6
119 32.0 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014547.D
Acq: 10 Jan 2020 19:04

Tgt Ion:152 Resp: 305827
Ion Ratio Lower Upper
152 100
115 55.3 39.5 118.3
150 156.9 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 23.301 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampled :

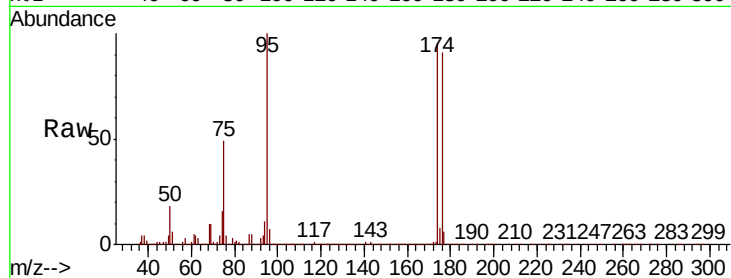
AF-3

Tot Ion: 75 Resp: 147438

Ion Ratio Lower Upper

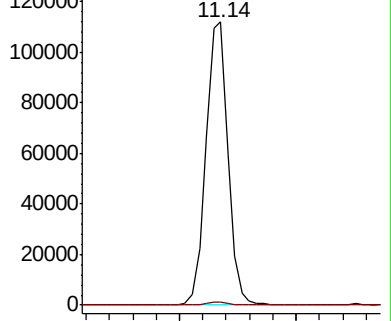
75 100

77 1.3 21.9 65.7#

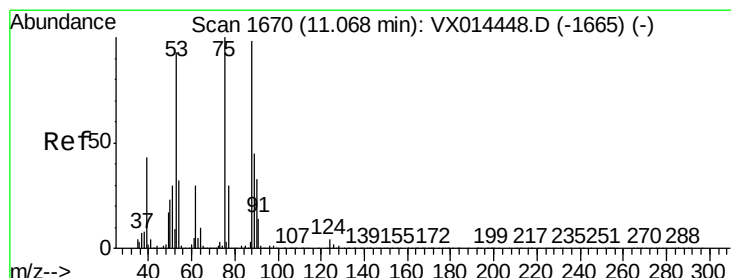
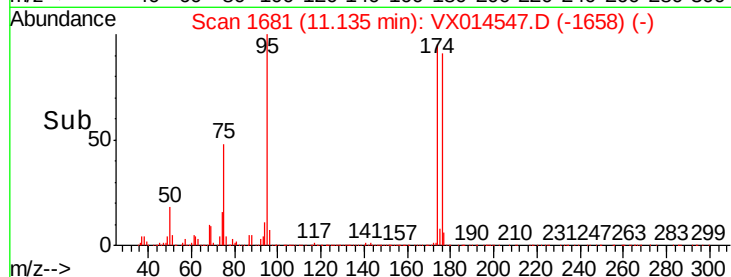


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.603 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

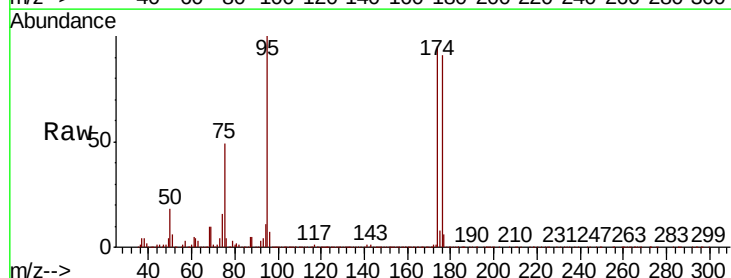
Tgt Ion: 75 Resp: 147438

Ion Ratio Lower Upper

75 100

53 0.3 74.8 112.2#

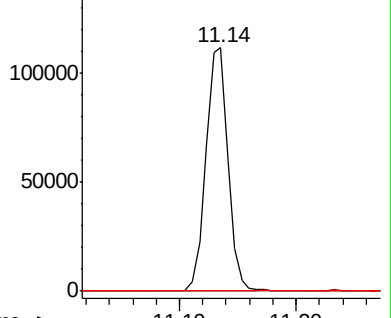
89 0.0 36.3 54.5#



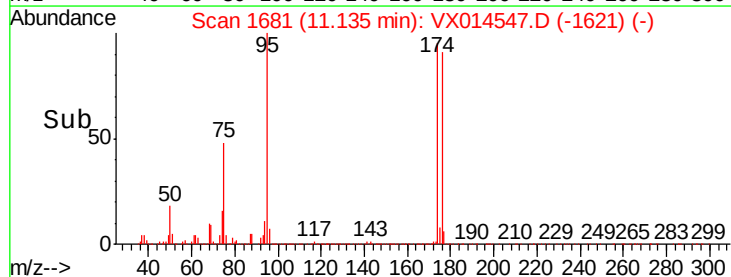
Abundance Ion 74.90 (74.60 to 75.60): VX0

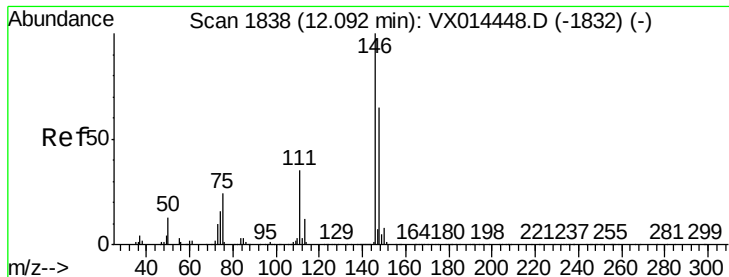
Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



Time-->





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1840

Delta R.T. 0.01 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

Instrument :

MSVOA_X

ClientSampleId :

AF-3

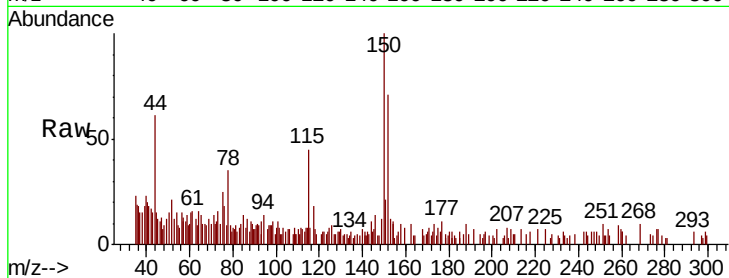
Tot Ion:146 Resp: 172

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

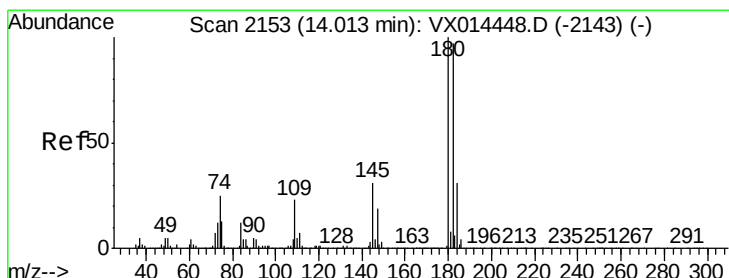
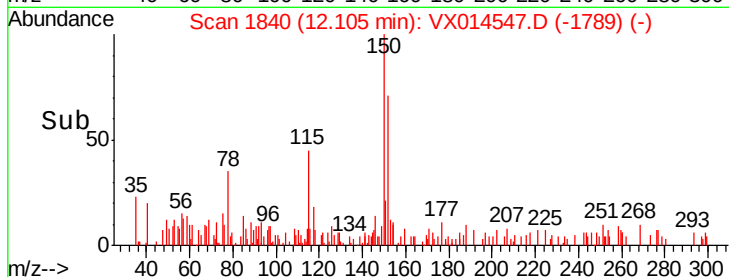
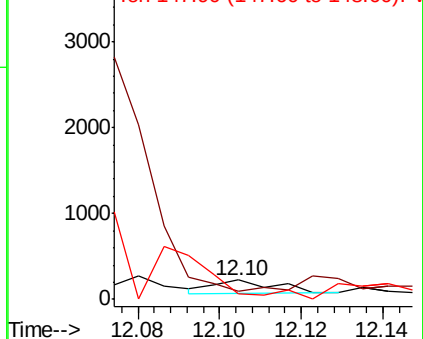
148 0.0 32.1 96.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014547.D

Acq: 10 Jan 2020 19:04

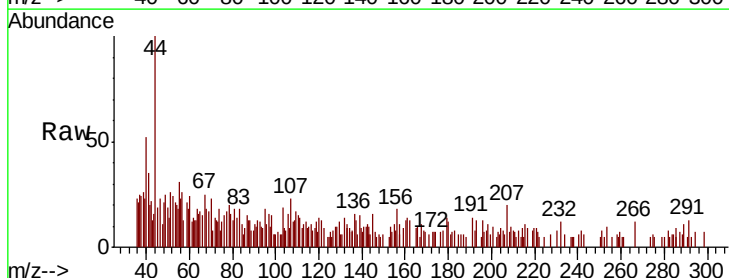
Tgt Ion:180 Resp: 244

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.6#

145 60.7 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

