

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015480.D
 Acq On : 02 Apr 2020 14:36
 Operator : JC/SP
 Sample : PB127948ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB127948ZHE#02

Quant Time: Apr 03 08:00:59 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	1110509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1826084	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1737523	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	895058	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	762115	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
35) Dibromofluoromethane	5.47	113	577272	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
50) Toluene-d8	8.70	98	2187251	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.12	95	948971	54.33	ug/l	0.00
Spiked Amount			Recovery	=	108.66%	

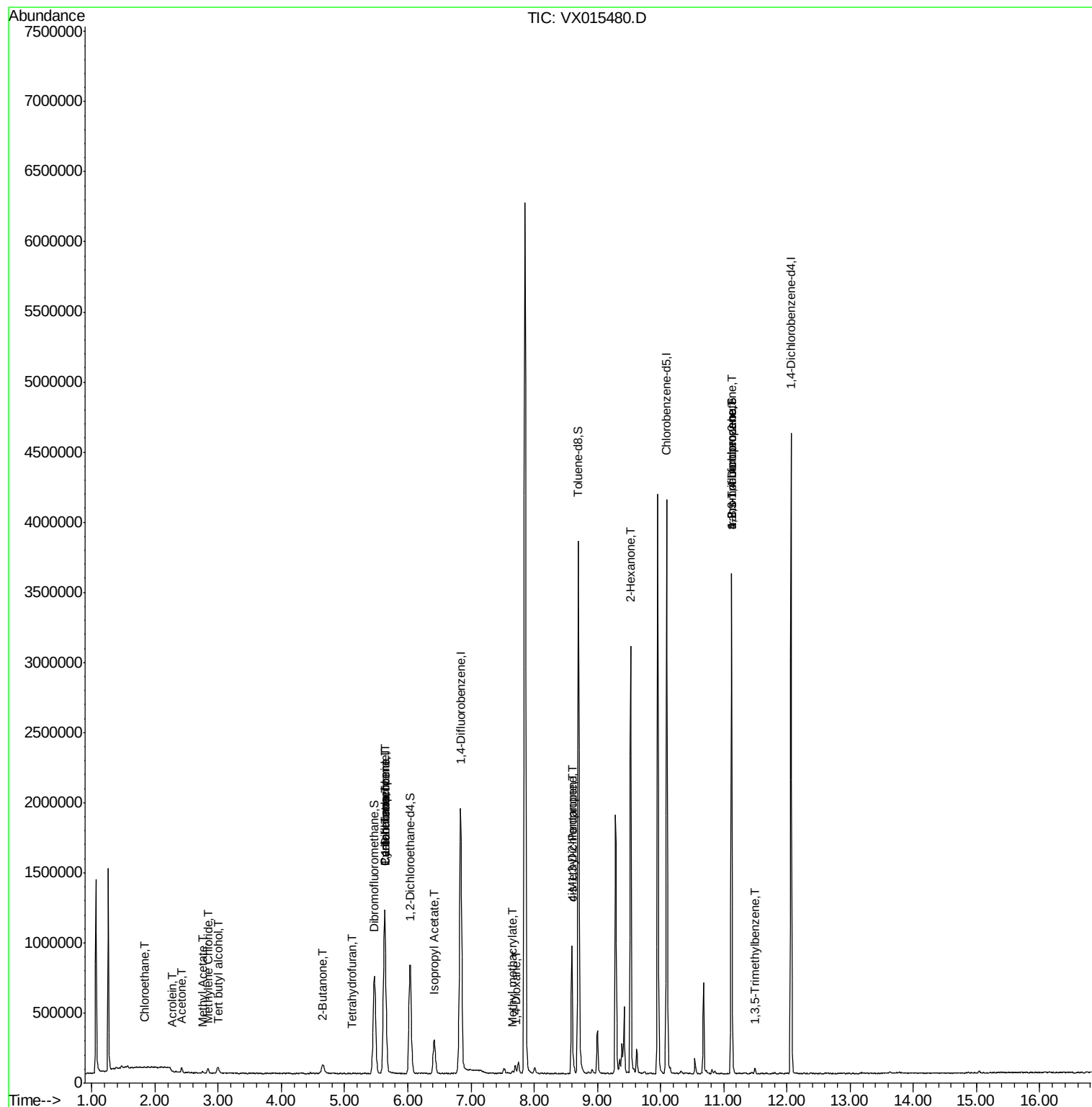
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	828	Below Cal	#	32
6) Chloroethane	1.84	64	1571	0.221	ug/l #	43
11) Tert butyl alcohol	3.00	59	30627	8.170	ug/l #	77
13) Acrolein	2.28	56	766	0.359	ug/l #	44
16) Acetone	2.42	43	43329	6.439	ug/l	100
18) Methyl Acetate	2.76	43	14110	0.822	ug/l	98
20) Methylene Chloride	2.84	84	15279	1.216	ug/l	93
25) 2-Butanone	4.65	43	18587	1.718	ug/l	97
29) Tetrahydrofuran	5.11	42	3076	0.442	ug/l #	62
31) Cyclohexane	5.63	56	23042	1.162	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	86161	5.121	ug/l #	52
38) Carbon Tetrachloride	5.63	117	106778	5.859	ug/l #	15
43) Isopropyl Acetate	6.42	43	359183	9.712	ug/l	99
48) Methyl methacrylate	7.65	41	19336	1.047	ug/l #	19
49) 1,4-Dioxane	7.72	88	232	0.673	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	348131	16.610	ug/l #	51
54) cis-1,3-Dichloropropene	8.60	75	142732	6.339	ug/l #	53
59) 2-Hexanone	9.53	43	383836	24.257	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	494526	26.867	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	17132	0.342	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.12	75	494526	64.467	ug/l #	10

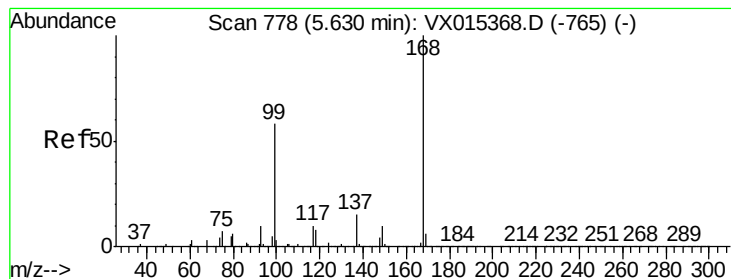
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 03 08:00:59 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: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

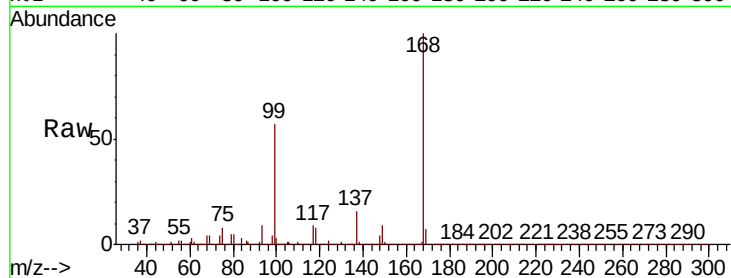
PB127948ZHE#02

Tot Ion:168 Resp: 1110509

Ion Ratio Lower Upper

168 100

99 56.5 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

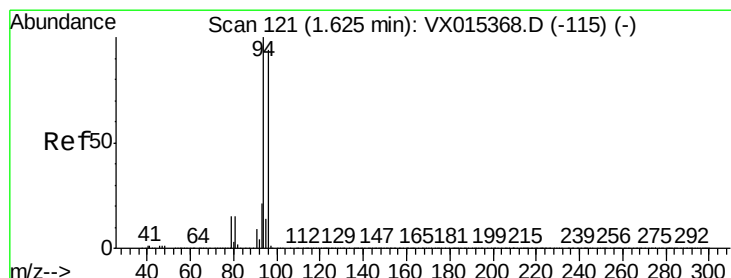
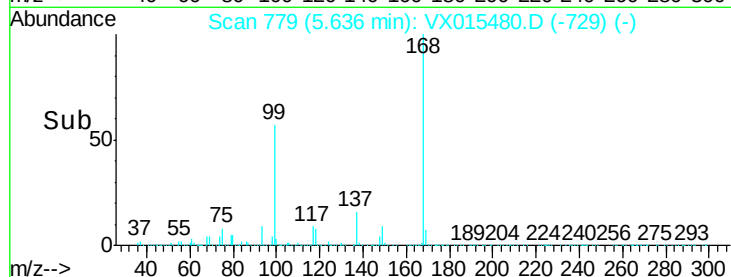
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.03 min

Lab File: VX015480.D

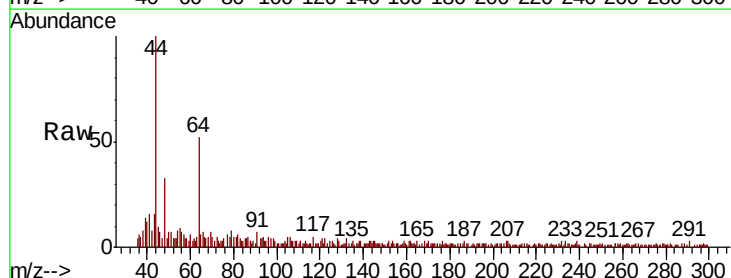
Acq: 02 Apr 2020 14:36

Tgt Ion: 94 Resp: 828

Ion Ratio Lower Upper

94 100

96 27.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1000

800

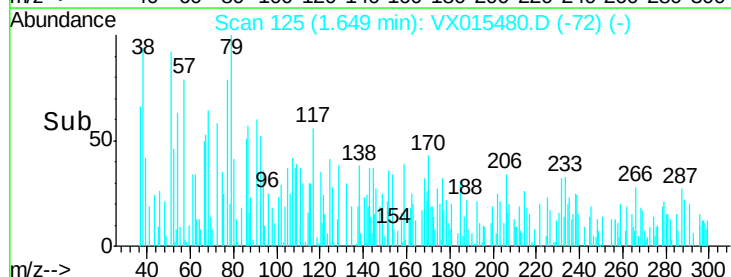
600

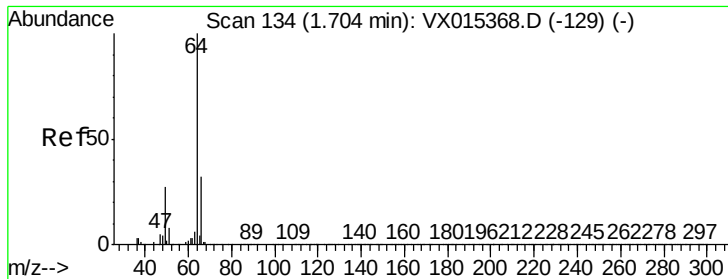
400

200

0

Time-->





#6

Chloroethane

Concen: 0.221 ug/l

RT: 1.84 min Scan# 156

Delta R.T. 0.13 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

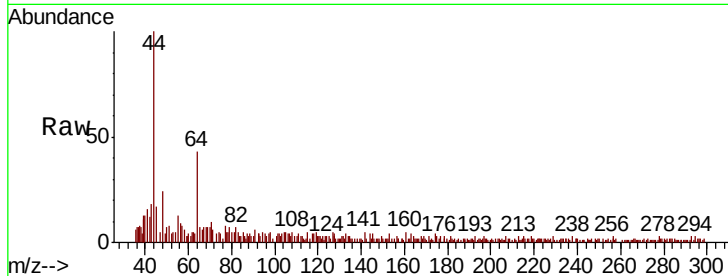
PB127948ZHE#02

Tot Ion: 64 Resp: 1571

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.84

4000

3000

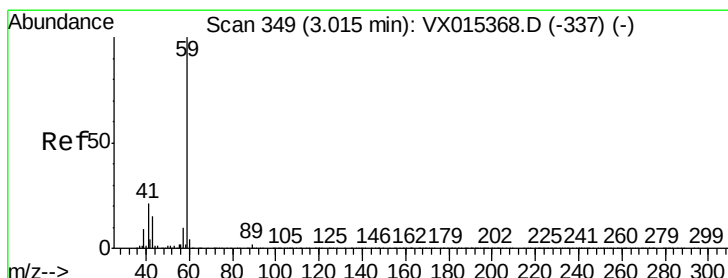
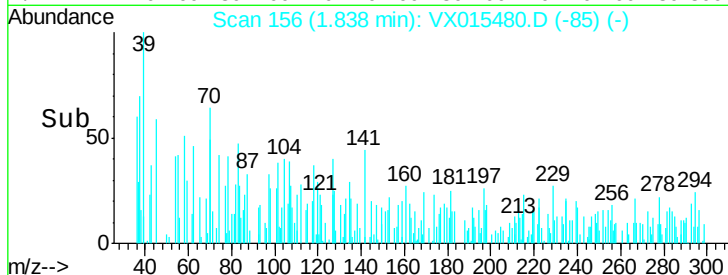
2000

1000

0

Time-->

1.82 1.83 1.84 1.85



#11

Tert butyl alcohol

Concen: 8.170 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015480.D

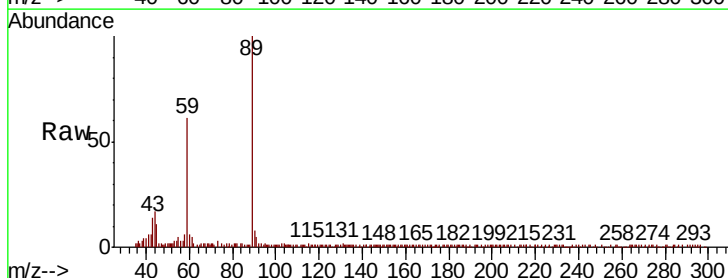
Acq: 02 Apr 2020 14:36

Tgt Ion: 59 Resp: 30627

Ion Ratio Lower Upper

59 100

57 1.5 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

15000

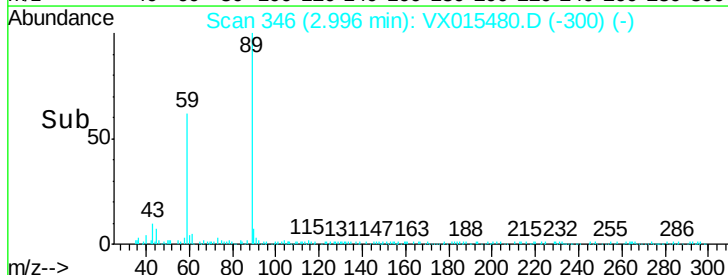
10000

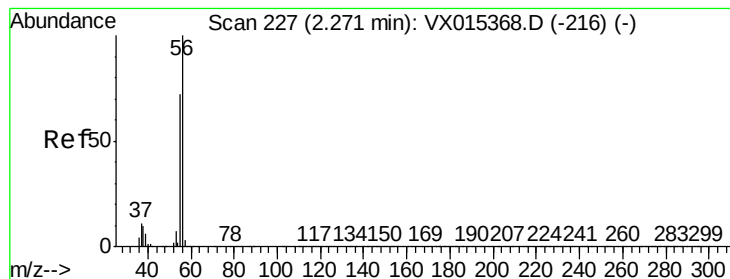
5000

0

Time-->

2.90 2.95 3.00 3.05





#13

Acrolein

Concen: 0.359 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.01 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

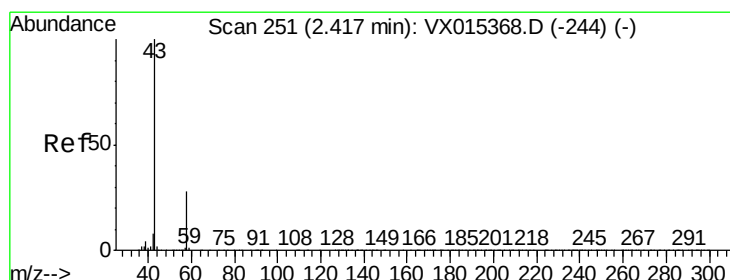
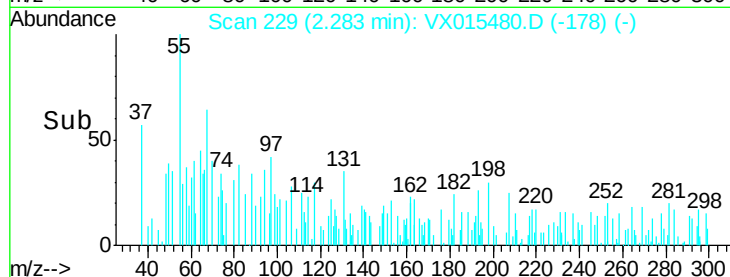
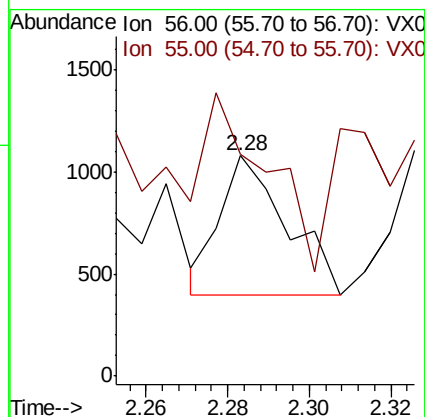
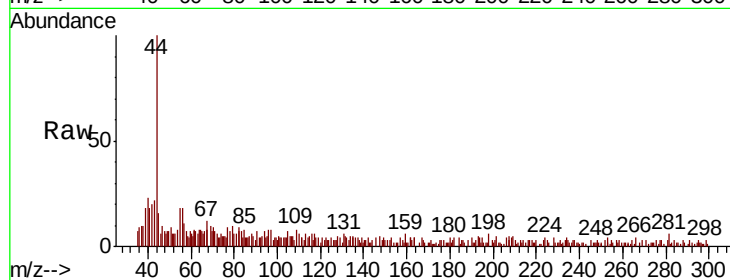
PB127948ZHE#02

Tot Ion: 56 Resp: 766

Ion Ratio Lower Upper

56 100

55 117.5 57.0 85.4#



#16

Acetone

Concen: 6.439 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015480.D

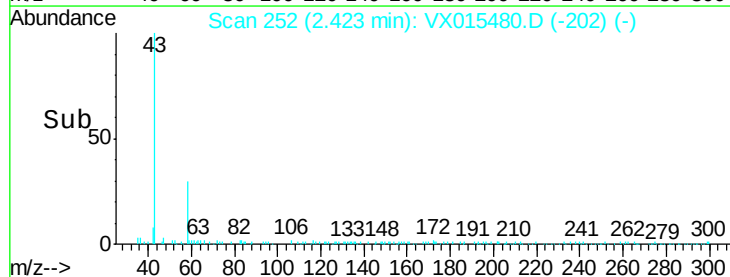
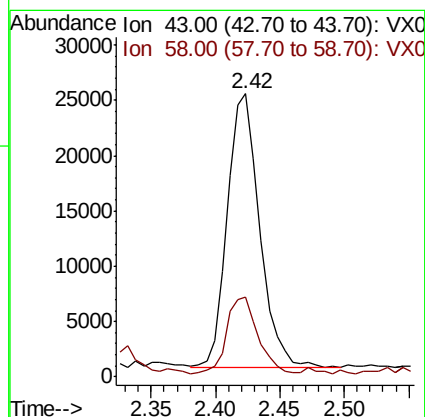
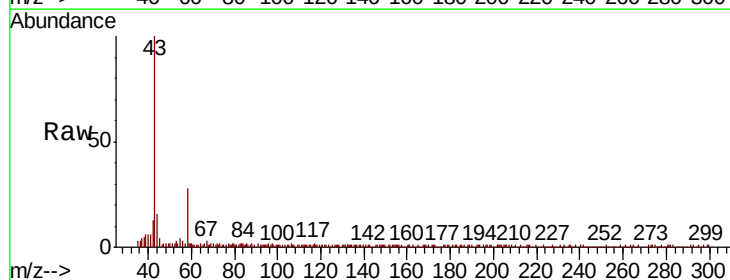
Acq: 02 Apr 2020 14:36

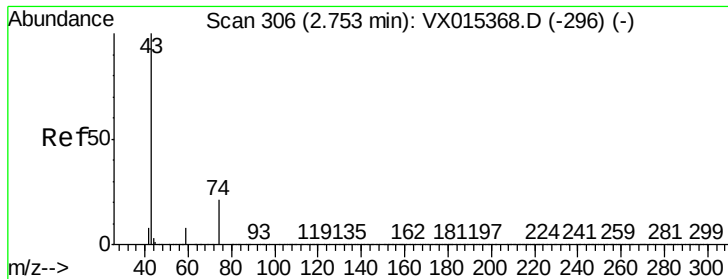
Tgt Ion: 43 Resp: 43329

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1

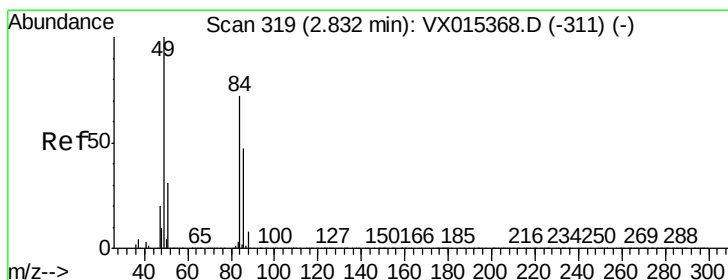
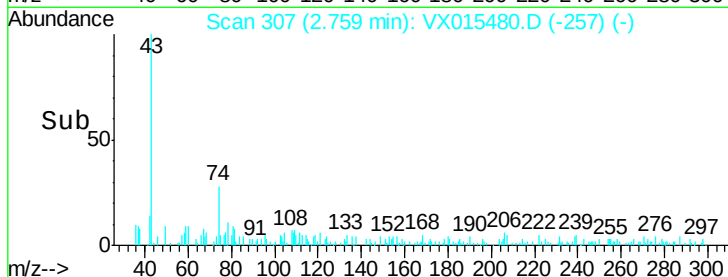
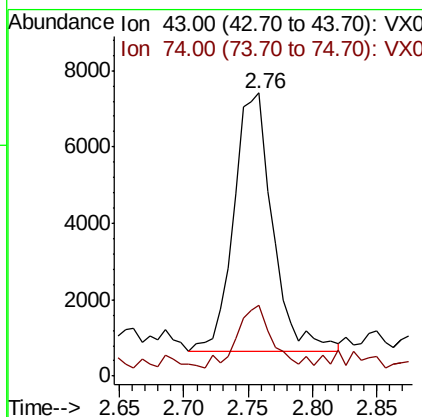
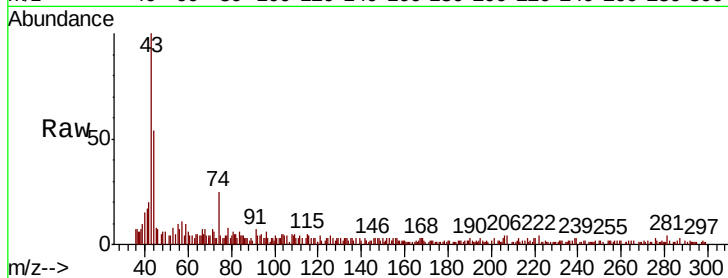




#18
Methvl Acetate
Concen: 0.822 ug/l
RT: 2.76 min Scan# 307
Delta R.T. 0.01 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

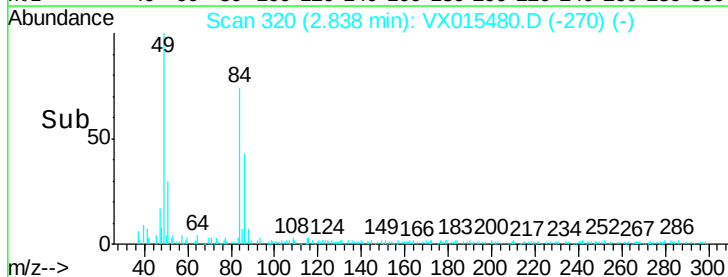
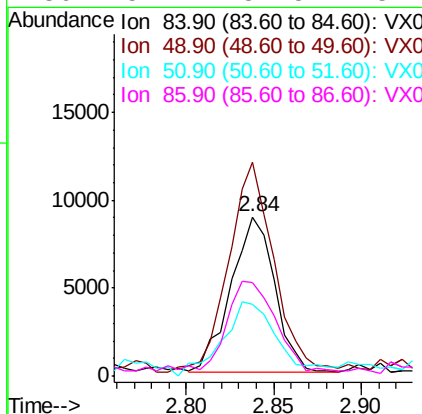
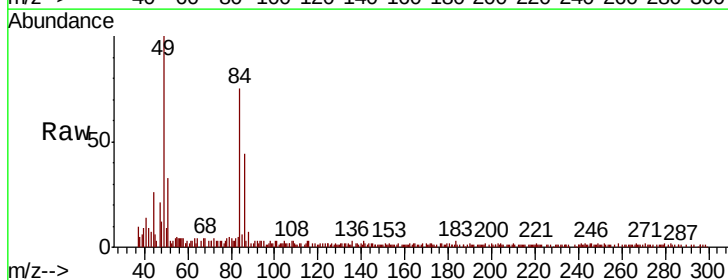
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#02

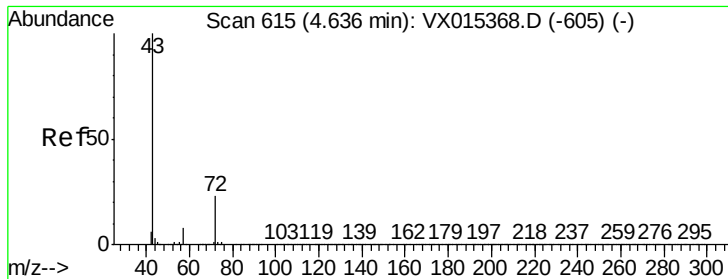
Tot Ion: 43 Resp: 14110
Ion Ratio Lower Upper
43 100
74 21.7 16.5 24.7



#20
Methylene Chloride
Concen: 1.216 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

Tgt Ion: 84 Resp: 15279
Ion Ratio Lower Upper
84 100
49 133.3 111.3 166.9
51 37.4 34.0 51.0
86 57.1 52.5 78.7





#25

2-Butanone

Concen: 1.718 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

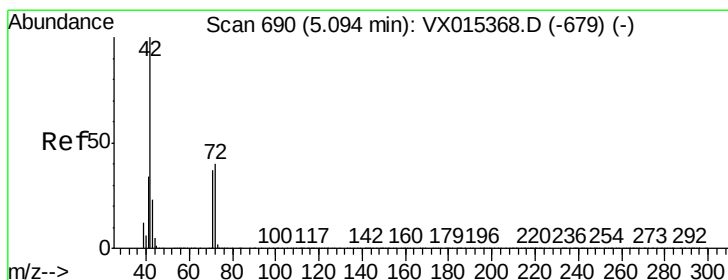
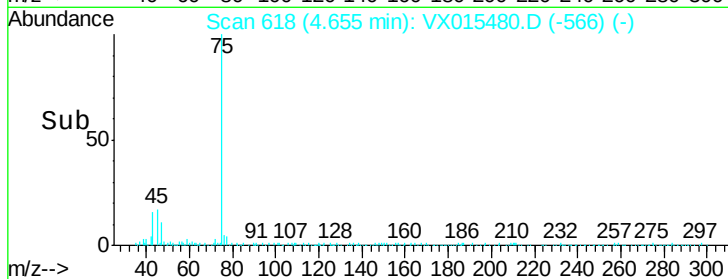
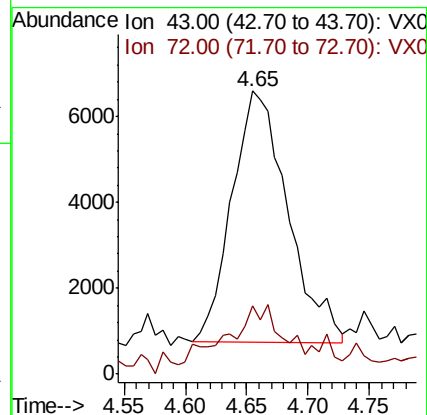
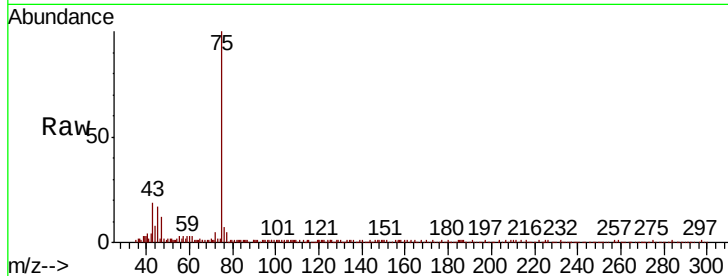
PB127948ZHE#02

Tot Ion: 43 Resp: 18587

Ion Ratio Lower Upper

43 100

72 22.3 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.442 ug/l

RT: 5.11 min Scan# 692

Delta R.T. 0.01 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

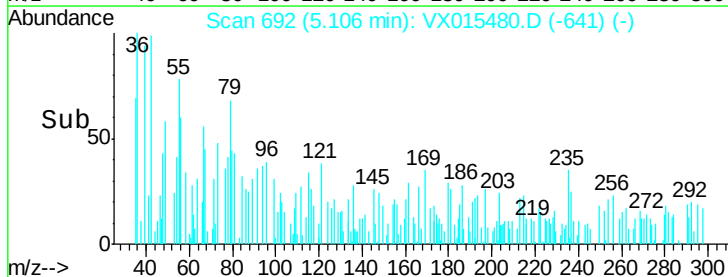
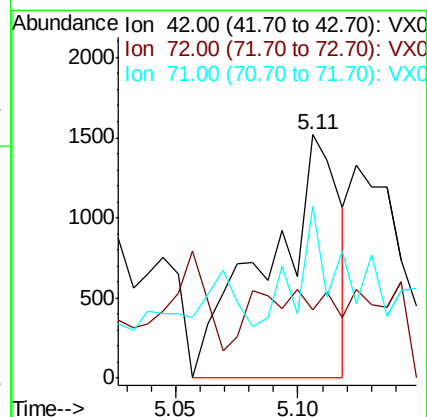
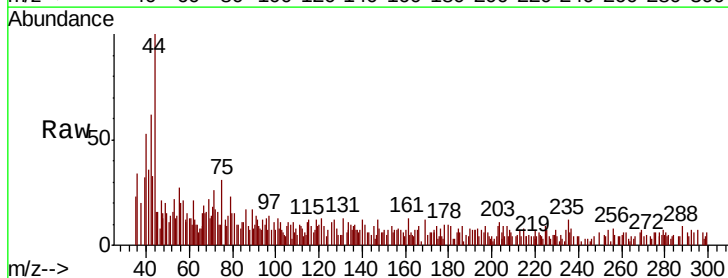
Tgt Ion: 42 Resp: 3076

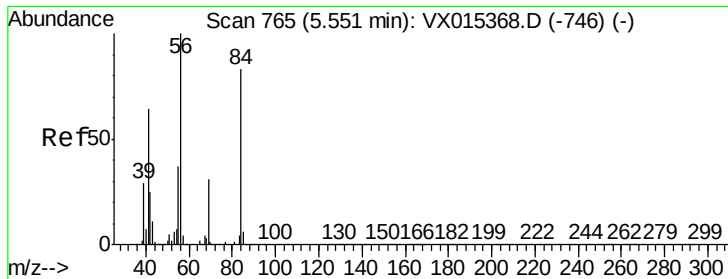
Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 30.9 29.6 44.4

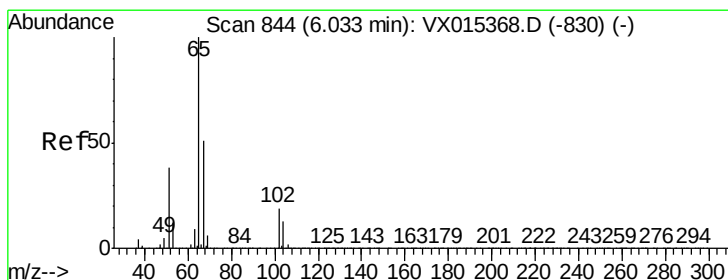
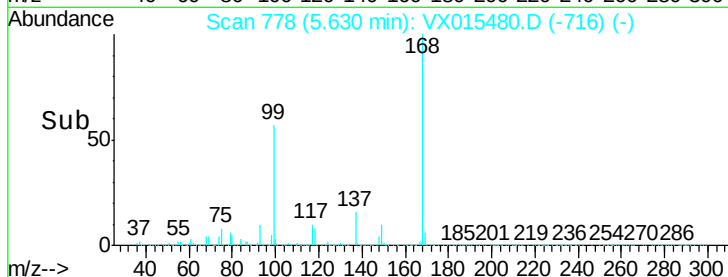
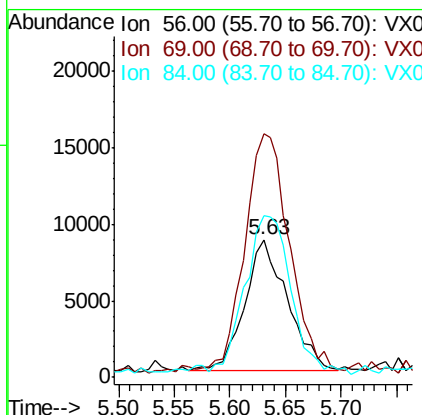
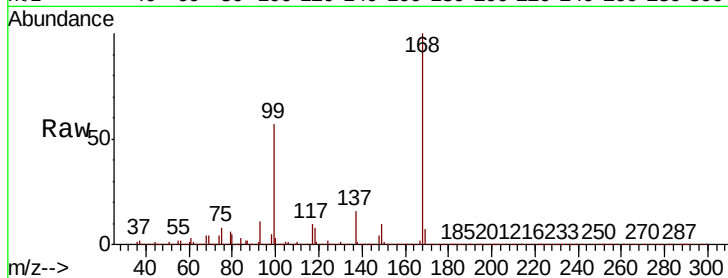




#31
Cyclohexane
Concen: 1.162 ug/l
RT: 5.63 min Scan# 778
Delta R.T. 0.08 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

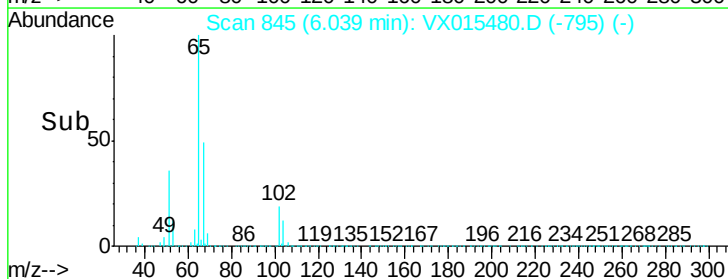
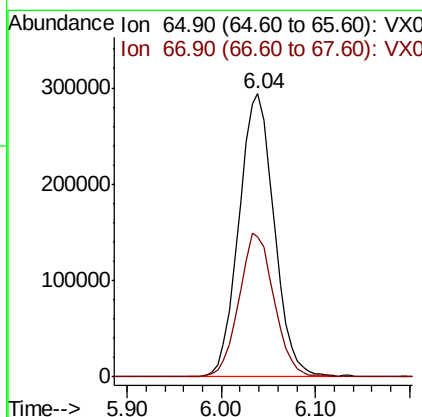
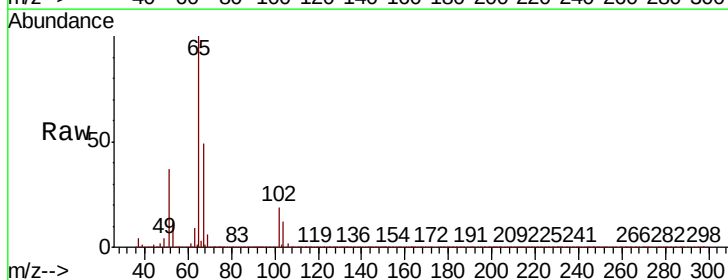
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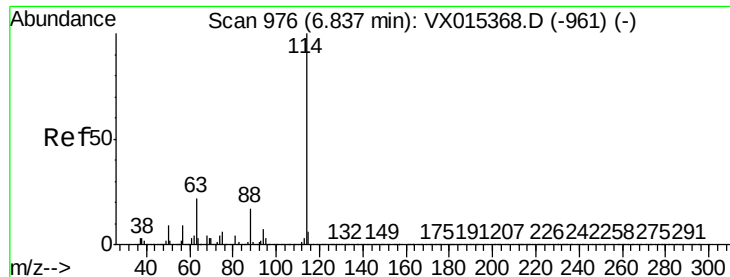
Tot Ion	Ratio	Lower	Upper
56	100		
69	179.1	24.6	36.8#
84	117.8	66.1	99.1#



#33
1,2-Dichloroethane-d4
Concen: 48.659 ug/l
RT: 6.04 min Scan# 845
Delta R.T. 0.01 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.3	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: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#02

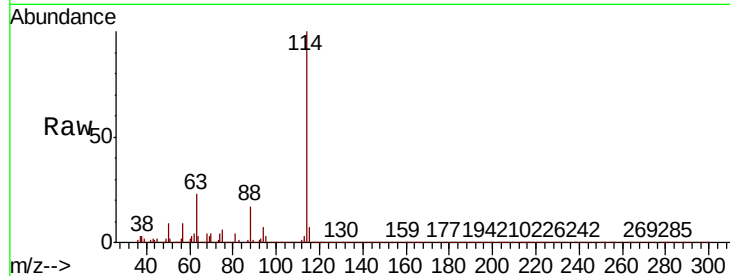
Tot Ion:114 Resp: 1826084

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.2

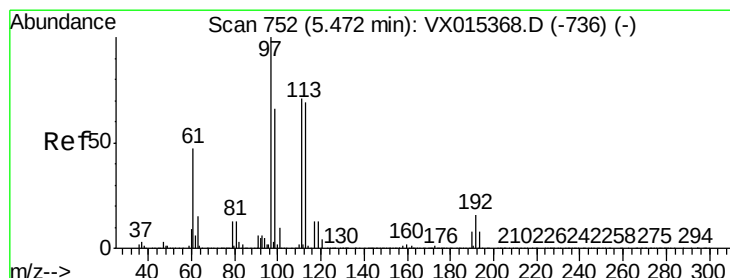
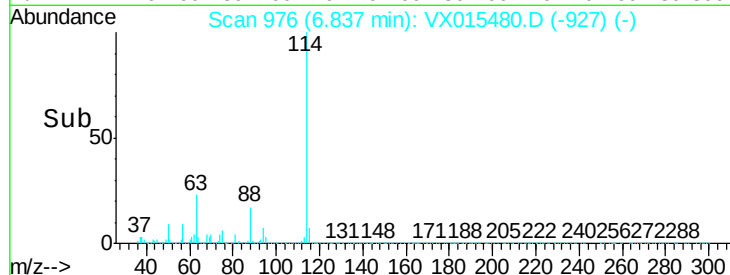
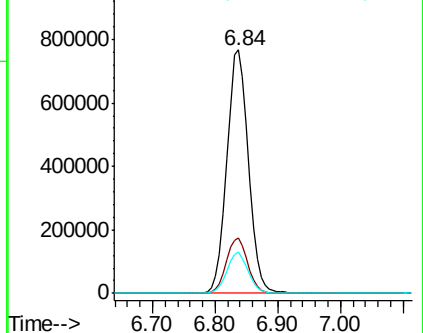
88 17.2 0.0 33.8



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: 49.454 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

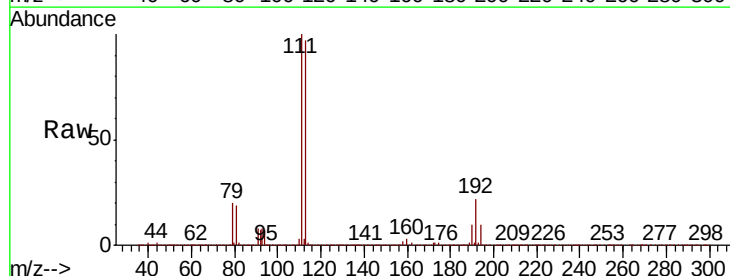
Tgt Ion:113 Resp: 577272

Ion Ratio Lower Upper

113 100

111 103.2 81.5 122.3

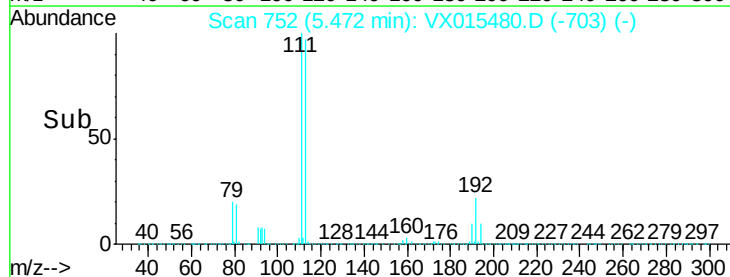
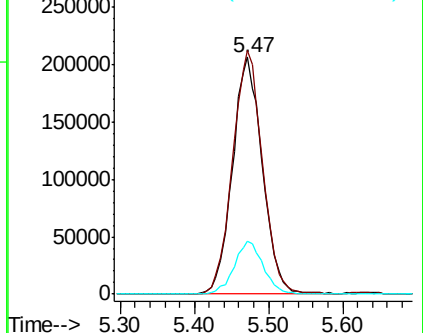
192 21.9 17.8 26.6

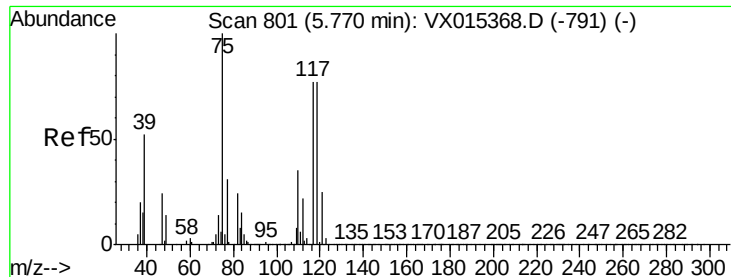


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

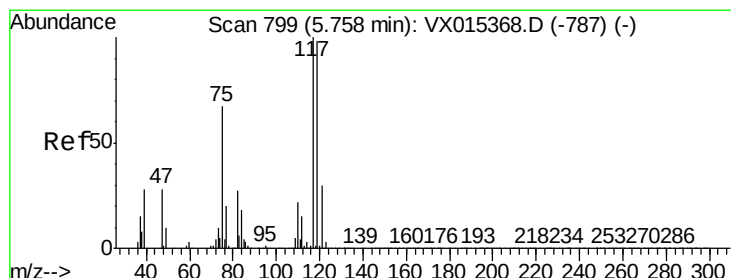
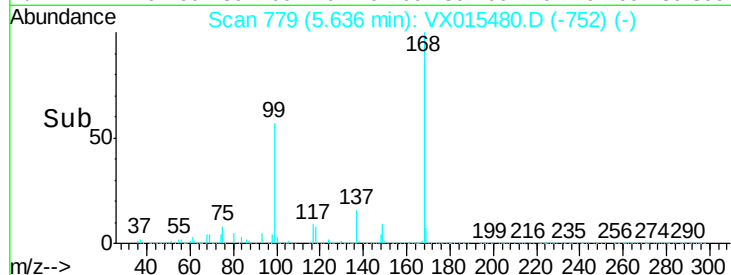
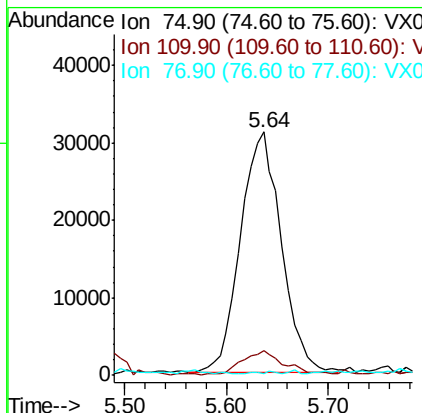
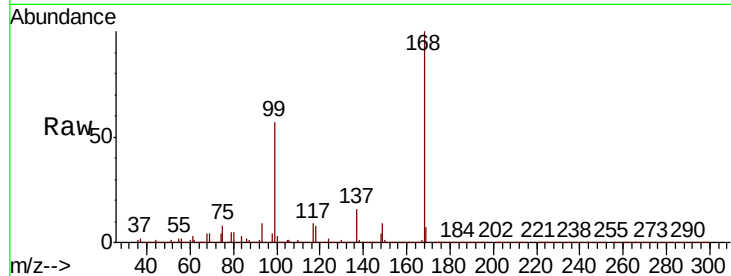




#36
 1,1-Dichloropropene
 Concen: 5.121 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015480.D
 Acq: 02 Apr 2020 14:36

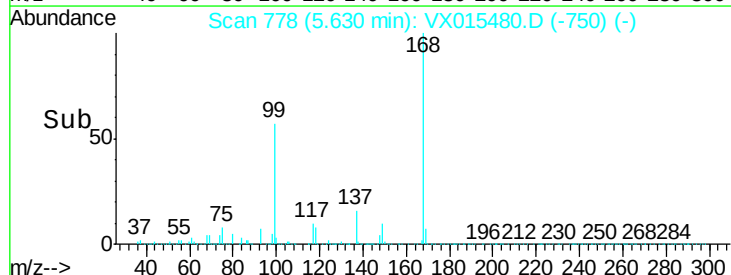
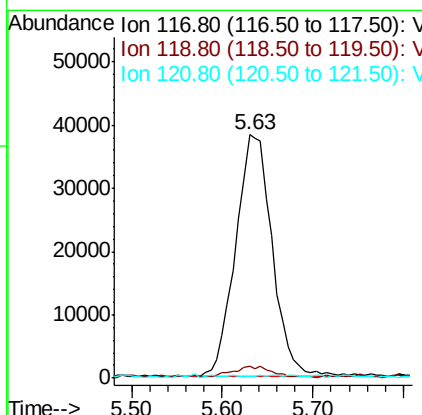
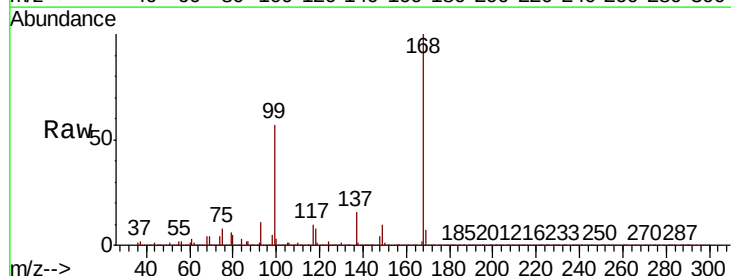
Instrument :
 MSVOA_X
 ClientSampleId :
 PB127948ZHE#02

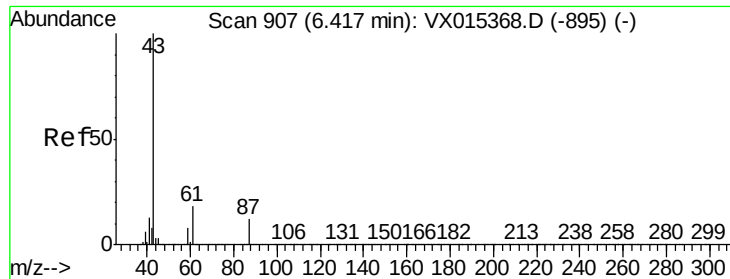
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.0	17.1	51.3#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.859 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.13 min
 Lab File: VX015480.D
 Acq: 02 Apr 2020 14:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	78.0	117.0#
121	0.3	23.8	35.8#





#43

Isopropyl Acetate

Concen: 9.712 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#02

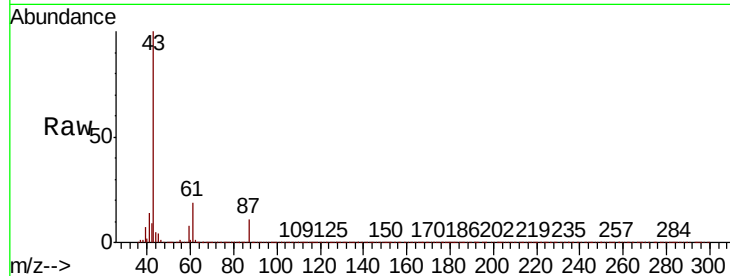
Tot Ion: 43 Resp: 359183

Ion Ratio Lower Upper

43 100

61 19.0 14.8 22.2

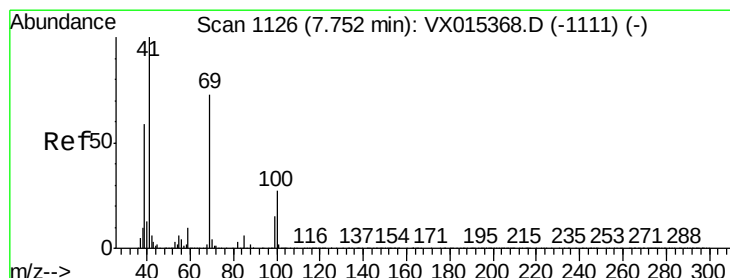
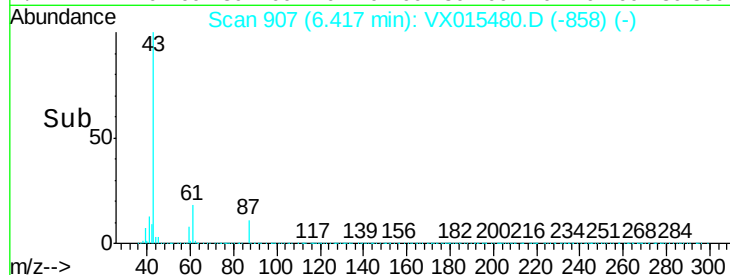
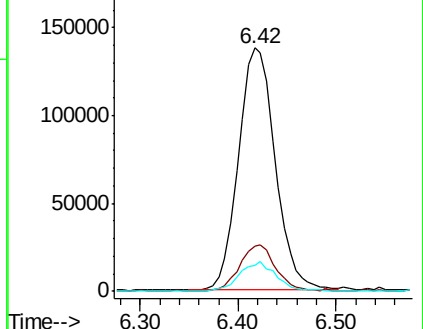
87 11.7 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.047 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.10 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

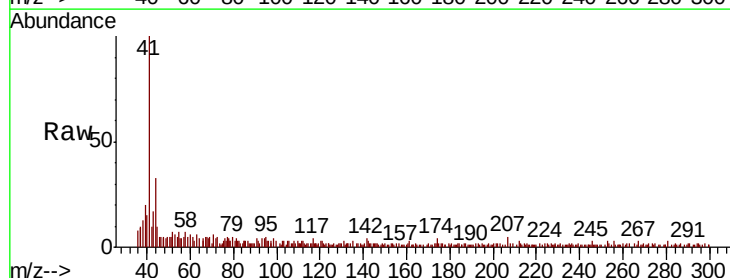
Tgt Ion: 41 Resp: 19336

Ion Ratio Lower Upper

41 100

69 2.7 56.7 85.1#

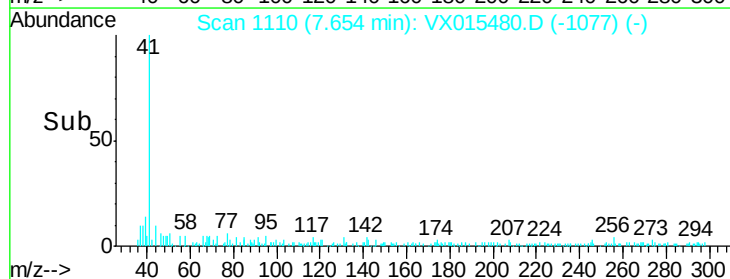
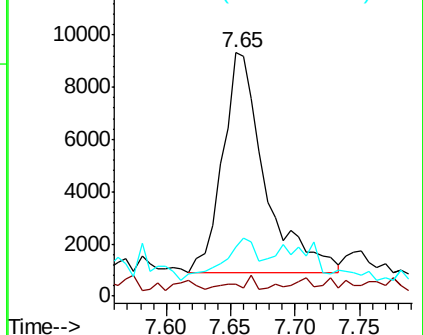
39 0.0 46.5 69.7#

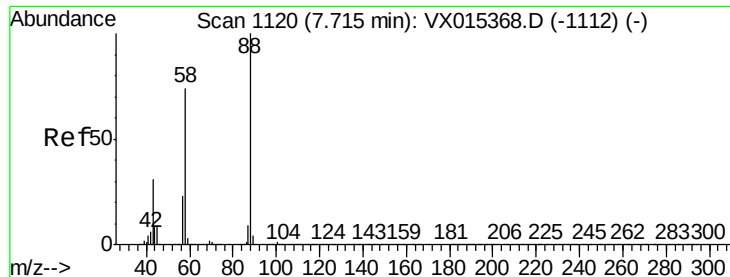


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.673 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#02

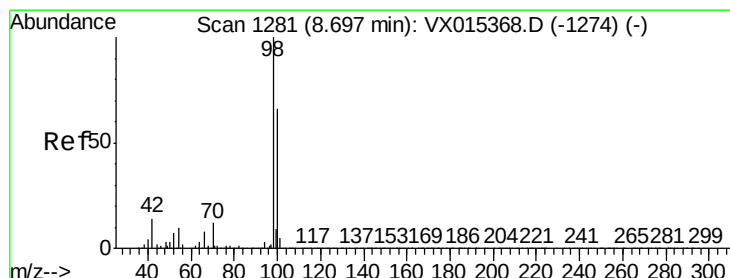
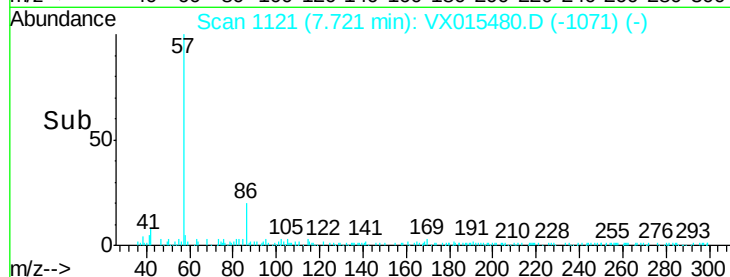
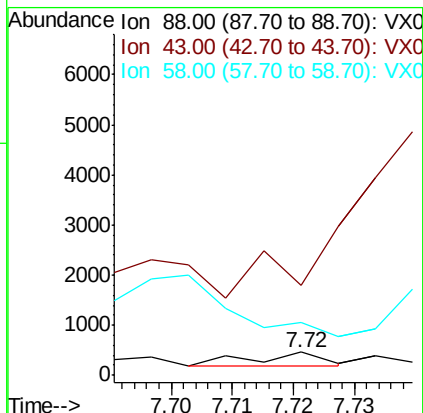
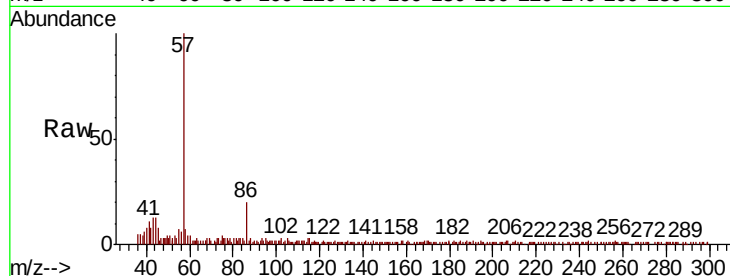
Tot Ion: 88 Resp: 232

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 1475.4 60.6 90.8#



#50

Toluene-d8

Concen: 50.894 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015480.D

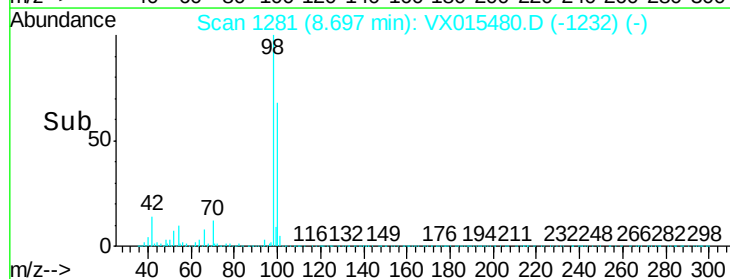
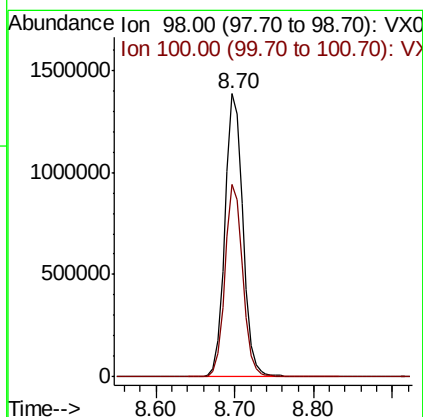
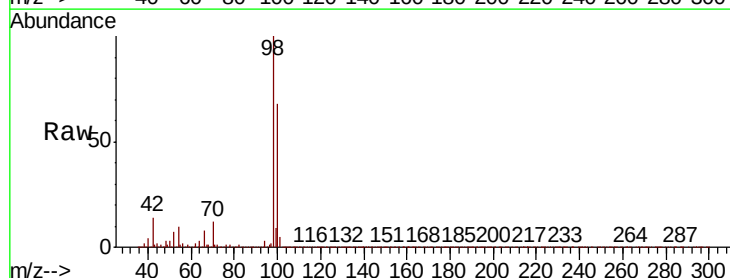
Acq: 02 Apr 2020 14:36

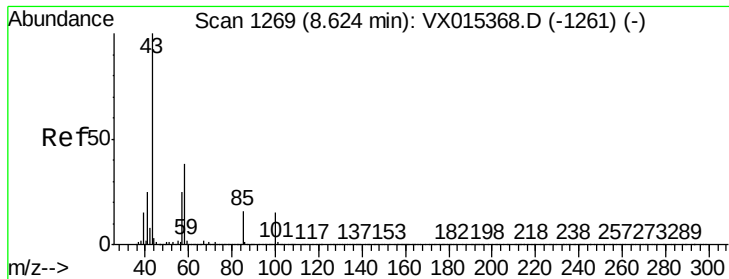
Tgt Ion: 98 Resp: 2187251

Ion Ratio Lower Upper

98 100

100 67.0 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 16.610 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

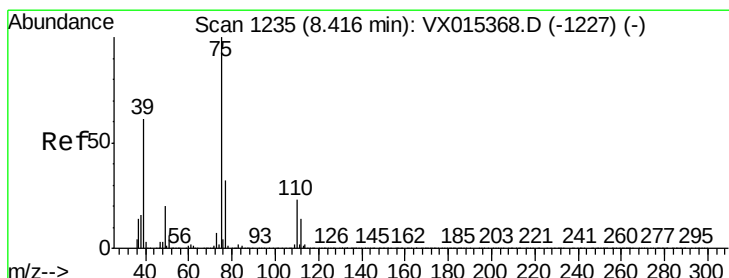
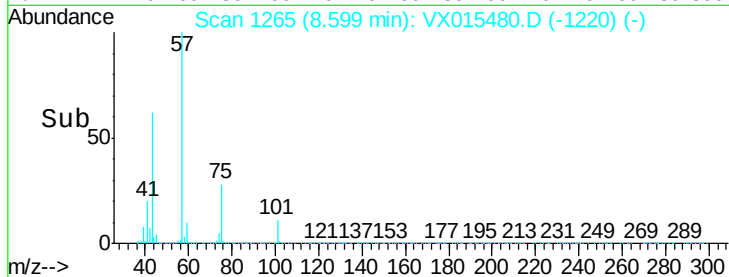
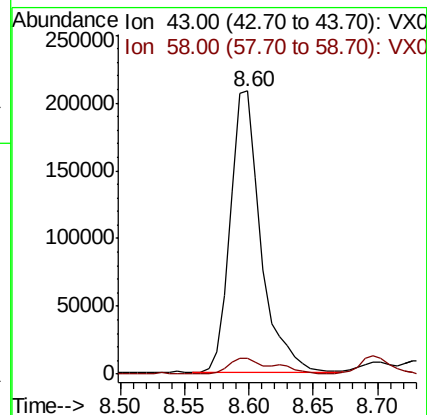
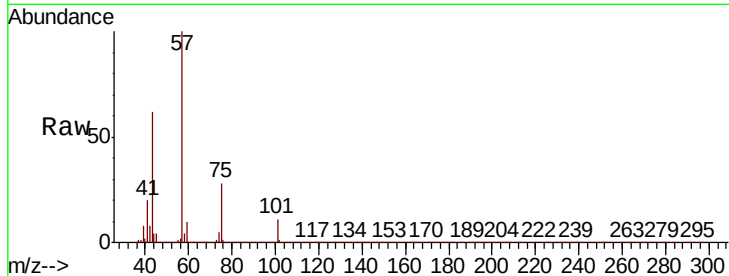
PB127948ZHE#02

Tot Ion: 43 Resp: 348131

Ion Ratio Lower Upper

43 100

58 7.9 29.7 44.5#



#54

cis-1,3-Dichloropropene

Concen: 6.339 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

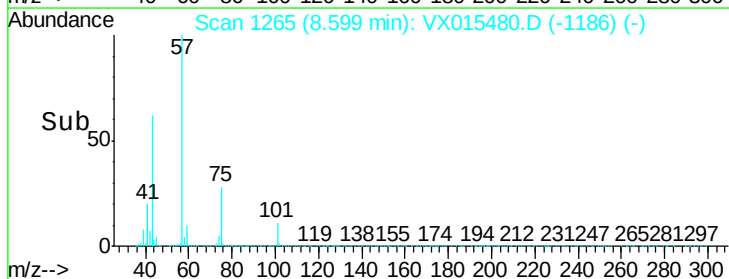
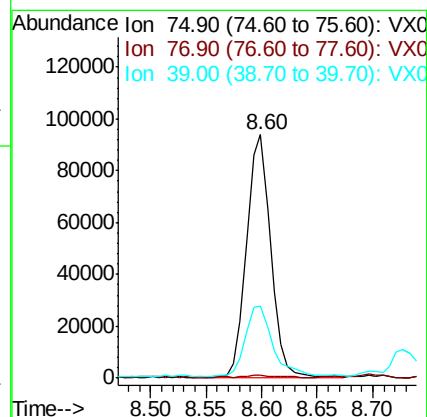
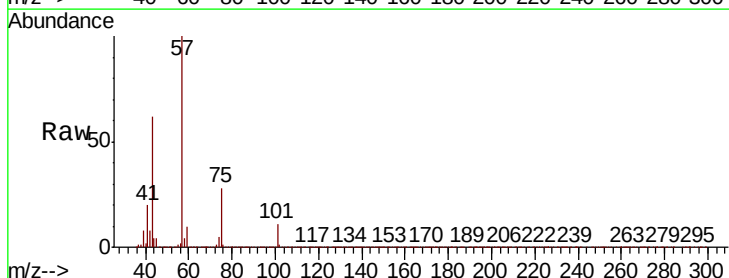
Tgt Ion: 75 Resp: 142732

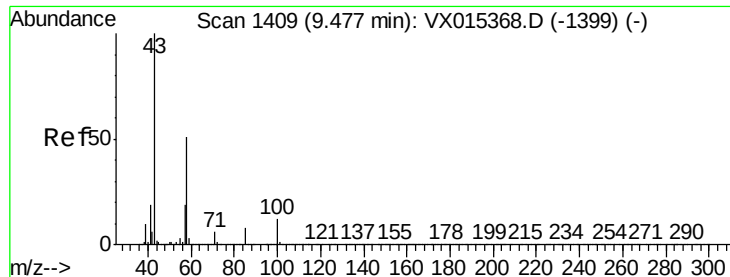
Ion Ratio Lower Upper

75 100

77 0.7 25.8 38.6#

39 28.9 49.0 73.4#

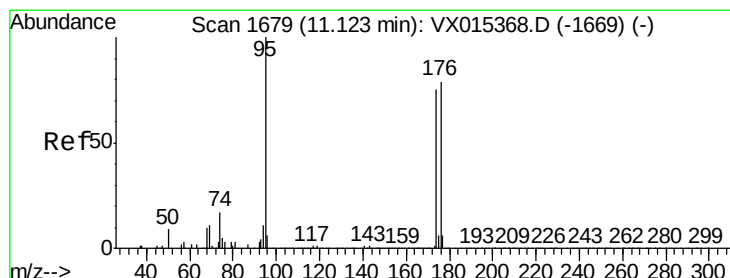
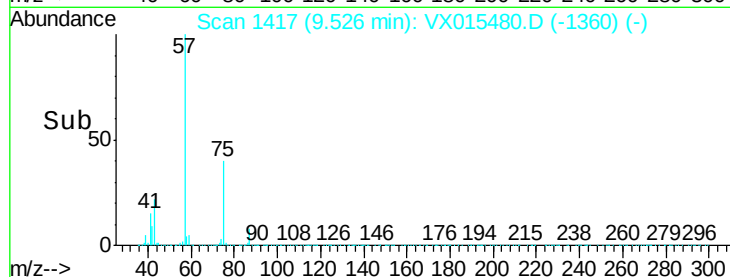
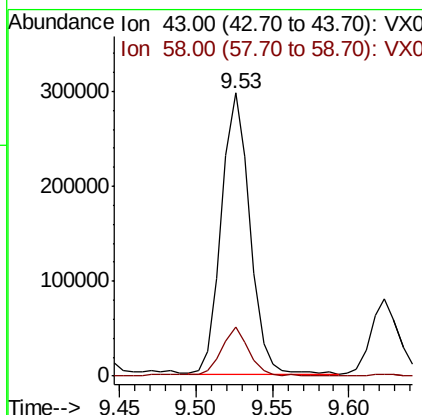
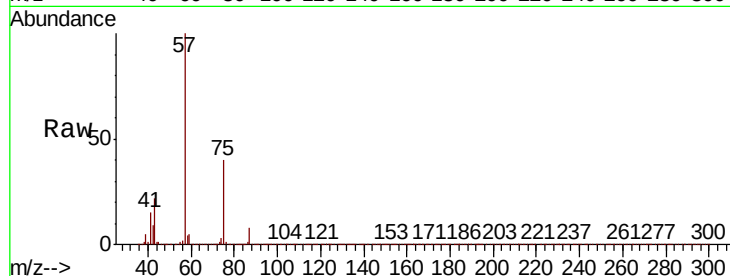




#59
2-Hexanone
Concen: 24.257 ug/l
RT: 9.53 min Scan# 1417
Delta R.T. 0.05 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

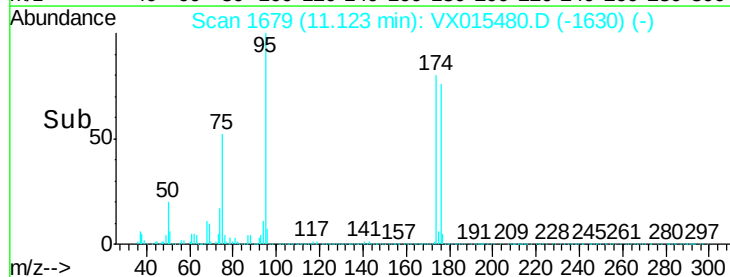
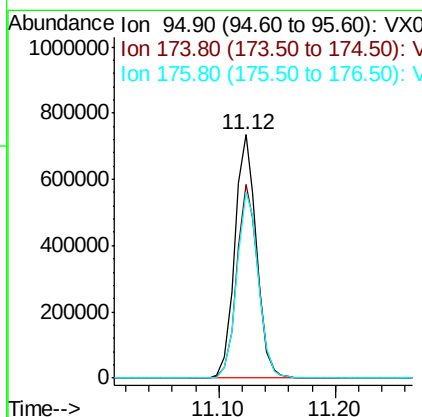
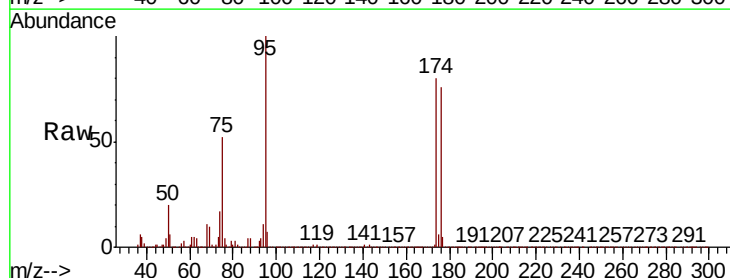
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#02

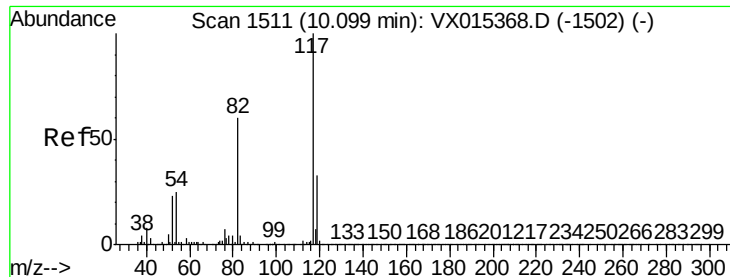
Tot Ion: 43 Resp: 383836
Ion Ratio Lower Upper
43 100
58 17.3 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 54.334 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

Tgt Ion: 95 Resp: 948971
Ion Ratio Lower Upper
95 100
174 78.1 0.0 158.6
176 76.1 0.0 159.0

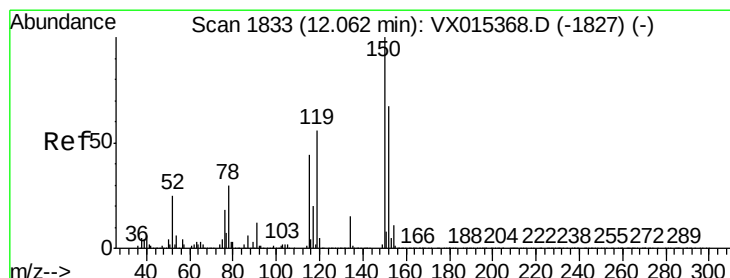
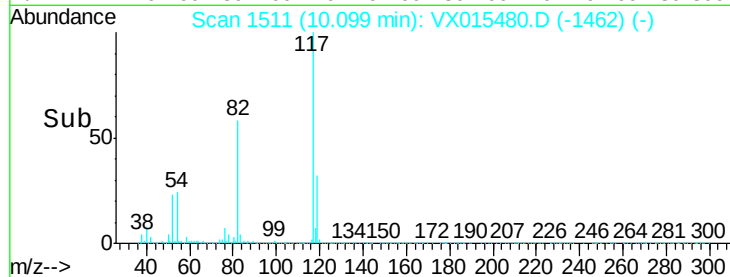
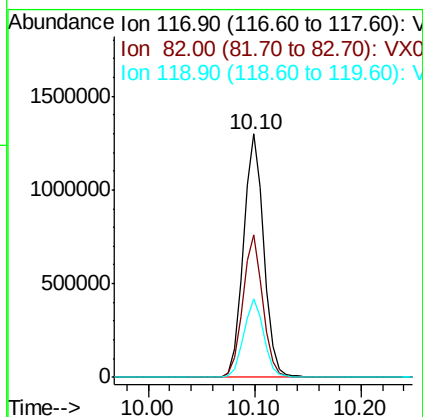
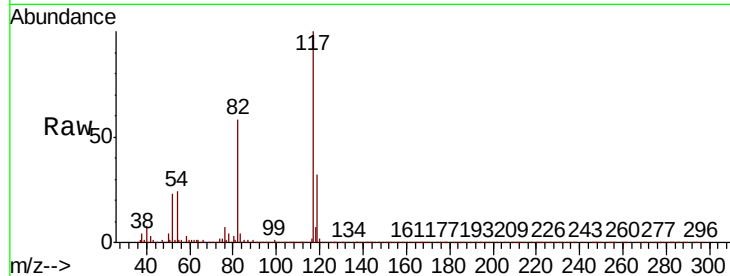




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

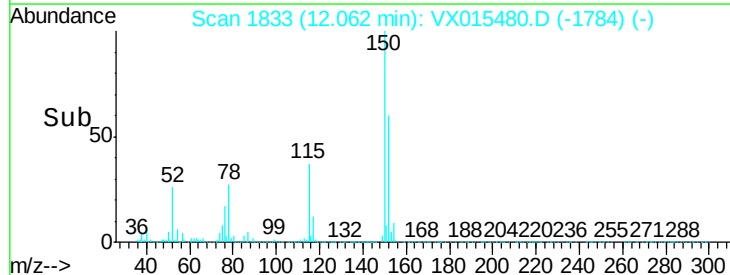
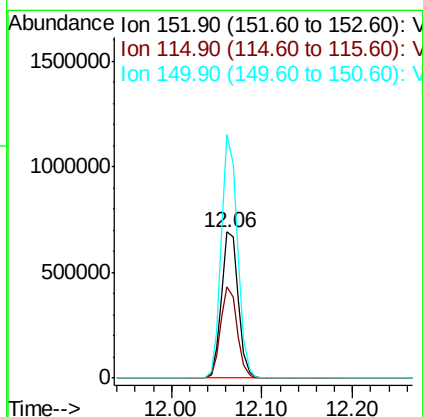
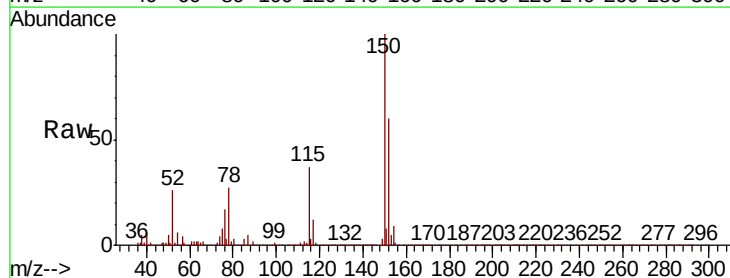
Instrument :
MSVOA_X
ClientSampleId :
PB127948ZHE#02

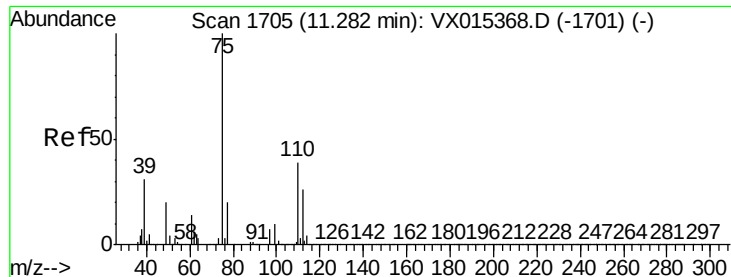
Tot Ion:117 Resp: 1737523
Ion Ratio Lower Upper
117 100
82 58.3 47.8 71.8
119 32.1 26.8 40.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015480.D
Acq: 02 Apr 2020 14:36

Tgt Ion:152 Resp: 895058
Ion Ratio Lower Upper
152 100
115 61.3 39.0 116.9
150 160.9 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 26.867 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

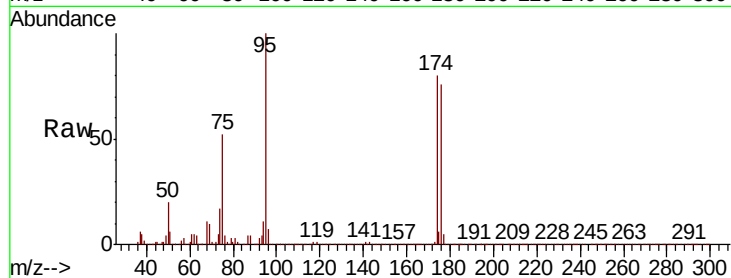
PB127948ZHE#02

Tot Ion: 75 Resp: 494526

Ion Ratio Lower Upper

75 100

77 1.0 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

400000

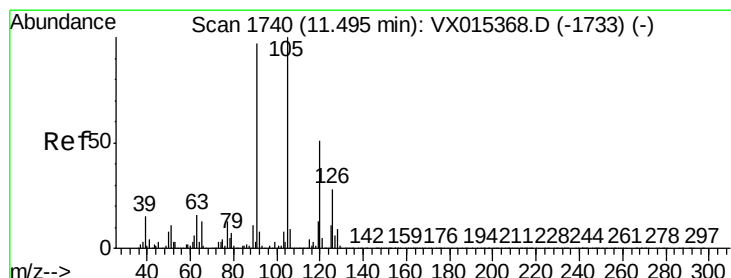
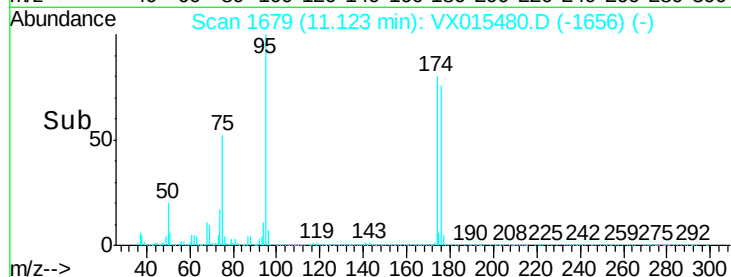
300000

200000

100000

0

Time--> 11.00 11.10 11.20



#80

1,3,5-Trimethylbenzene

Concen: 0.342 ug/l

RT: 11.49 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VX015480.D

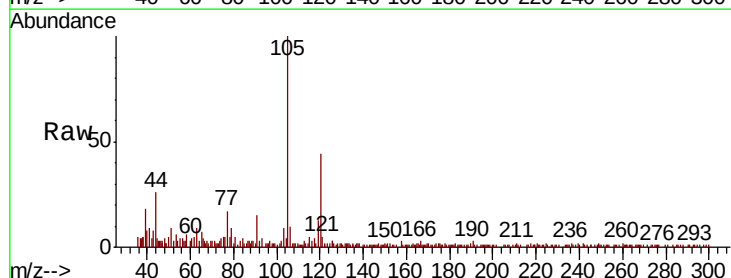
Acq: 02 Apr 2020 14:36

Tgt Ion: 105 Resp: 17132

Ion Ratio Lower Upper

105 100

120 49.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

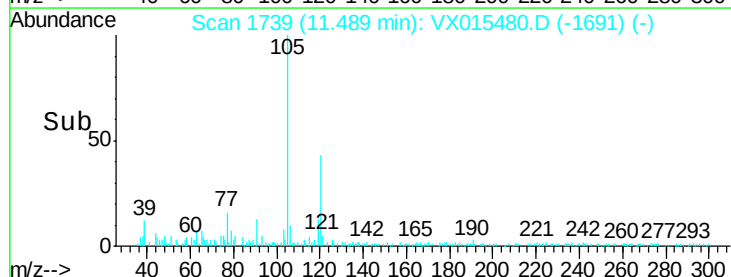
15000

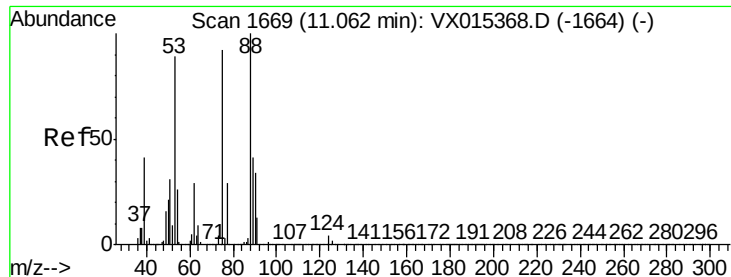
10000

5000

0

Time--> 11.45 11.50 11.55





#81

trans-1,4-Dichloro-2-butene

Concen: 64.467 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015480.D

Acq: 02 Apr 2020 14:36

Instrument :

MSVOA_X

ClientSampleId :

PB127948ZHE#02

Tot Ion: 75 Resp: 494526

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#

