

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY122619\
 Data File : VY001066.D
 Acq On : 26 Dec 2019 13:02
 Operator : SY/MD
 Sample : K6431-01
 Misc : 7.74G/5ML/MSVOA_Y/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5-(0-2)

Quant Time: Dec 27 02:09:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y122319S.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 23 12:07:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	38030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	67102	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	53626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	20793	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.16	65	18150	48.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.78%	
35) Dibromofluoromethane	7.72	113	18997	48.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.16%	
50) Toluene-d8	10.18	98	77933	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
62) 4-Bromofluorobenzene	12.48	95	21700	38.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.88%	

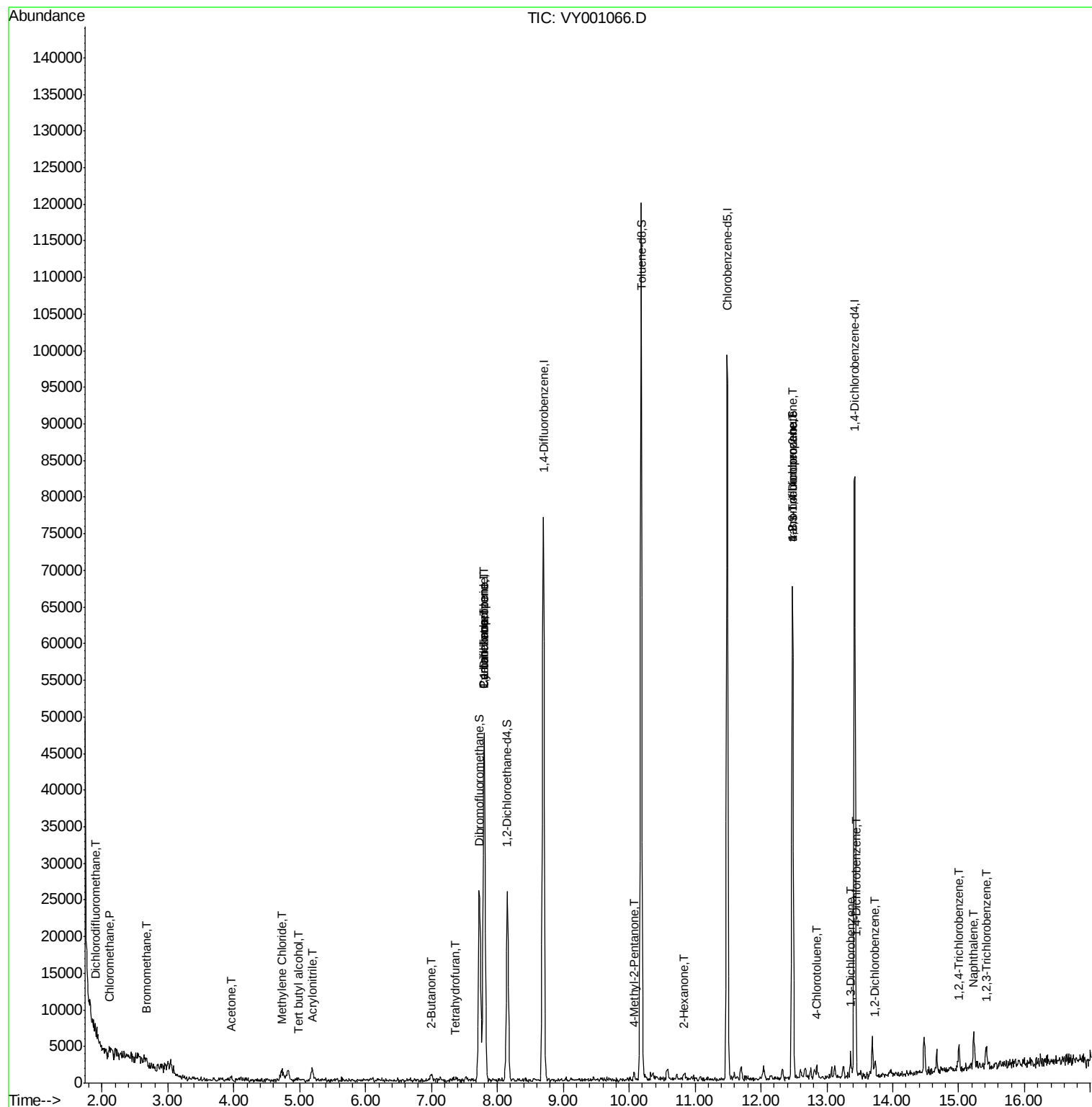
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.90	85	654	1.974	ug/l	93
3) Chloromethane	2.12	50	782	1.734	ug/l	93
5) Bromomethane	2.68	94	521	2.414	ug/l	93
11) Tert butyl alcohol	4.97	59	70	1.697	ug/l #	74
15) Acrylonitrile	5.19	53	338	2.579	ug/l #	55
16) Acetone	3.96	43	1140	13.193	ug/l #	35
20) Methylene Chloride	4.73	84	1077	2.118	ug/l	88
25) 2-Butanone	7.00	43	266	1.752	ug/l #	47
29) Tetrahydrofuran	7.35	42	130	1.204	ug/l #	31
31) Cyclohexane	7.80	56	1007	1.208	ug/l #	81
36) 1,1-Dichloropropene	7.80	75	3172	4.955	ug/l #	48
38) Carbon Tetrachloride	7.80	117	3992	7.118	ug/l #	19
51) 4-Methyl-2-Pentanone	10.08	43	631	1.845	ug/l #	51
59) 2-Hexanone	10.83	43	764	3.228	ug/l	77
76) 1,2,3-Trichloropropane	12.48	75	11014	42.967	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	11014	91.639	ug/l #	19
82) 4-Chlorotoluene	12.85	91	1238	1.101	ug/l	97
87) 1,3-Dichlorobenzene	13.36	146	1049	1.509	ug/l	86
88) 1,4-Dichlorobenzene	13.45	146	1440	2.054	ug/l	95
91) 1,2-Dichlorobenzene	13.74	146	648	1.011	ug/l	65
93) 1,2,4-Trichlorobenzene	15.01	180	1258	2.907	ug/l	92
95) Naphthalene	15.23	128	3712	3.647	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.42	180	1066	2.762	ug/l	85

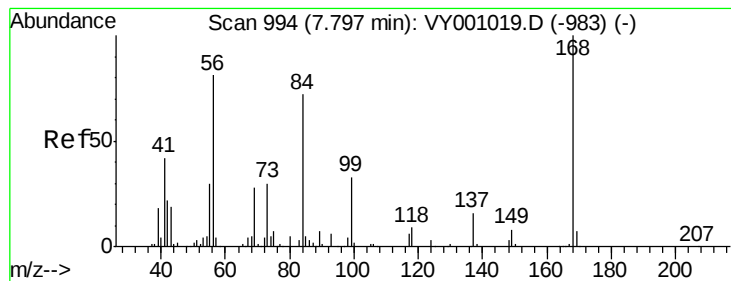
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 23 12:07:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

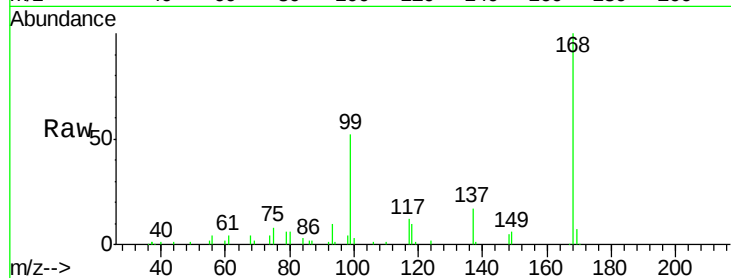
SB-5-(0-2)

Tgt Ion: 168 Resp: 38030

Ion Ratio Lower Upper

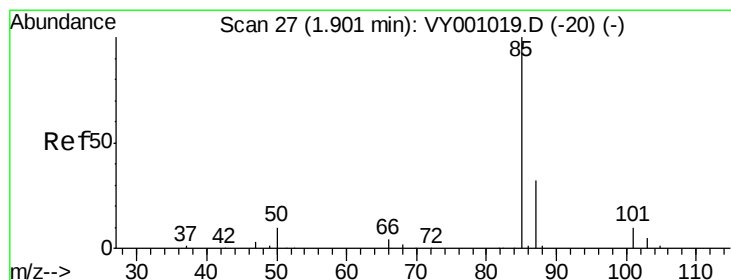
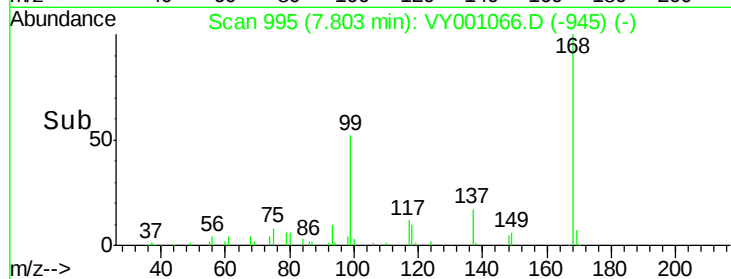
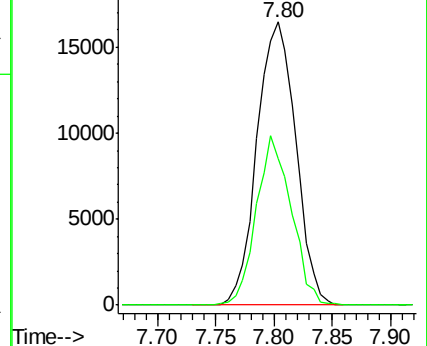
168 100

99 51.6 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VY001019.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001019.D (-983) (-)



#2

Dichlorodifluoromethane

Concen: 1.974 ug/l

RT: 1.90 min Scan# 27

Delta R.T. 0.00 min

Lab File: VY001066.D

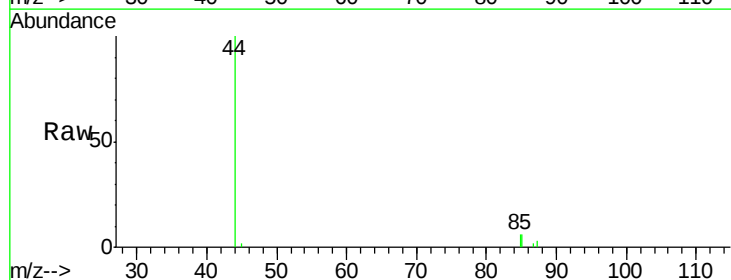
Acq: 26 Dec 2019 13:02

Tgt Ion: 85 Resp: 654

Ion Ratio Lower Upper

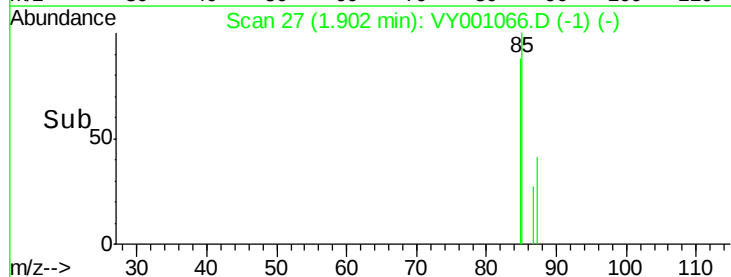
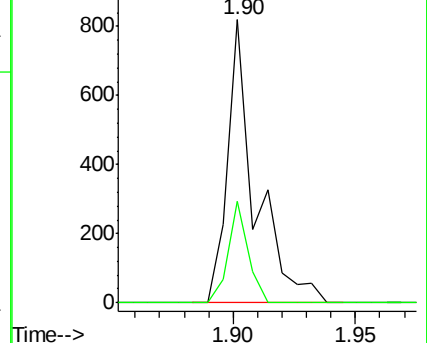
85 100

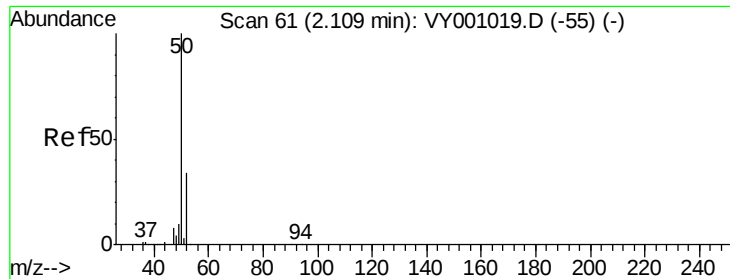
87 35.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VY001019.D (-20) (-)

Ion 86.90 (86.60 to 87.60): VY001019.D (-20) (-)





#3

Chloromethane

Concen: 1.734 ug/l

RT: 2.12 min Scan# 63

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

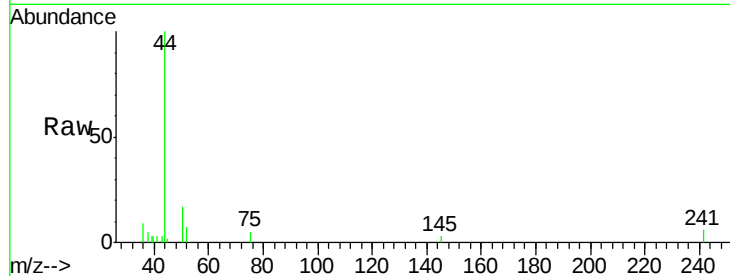
SB-5-(0-2)

Tgt Ion: 50 Resp: 782

Ion Ratio Lower Upper

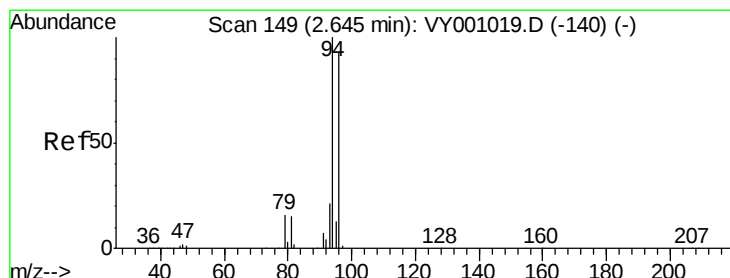
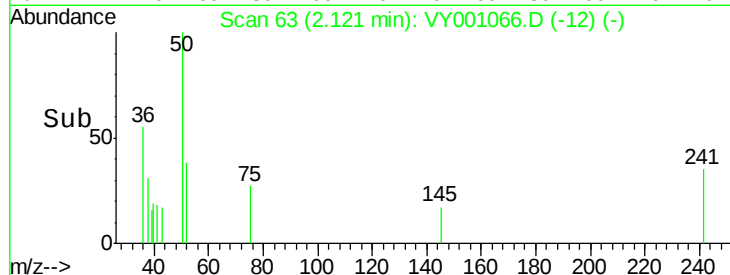
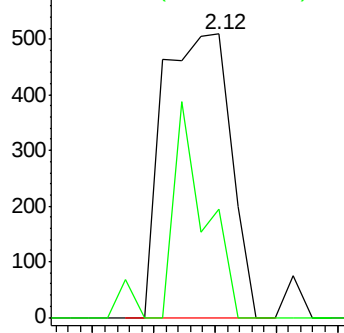
50 100

52 38.1 27.1 40.7



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#5

Bromomethane

Concen: 2.414 ug/l

RT: 2.68 min Scan# 154

Delta R.T. 0.03 min

Lab File: VY001066.D

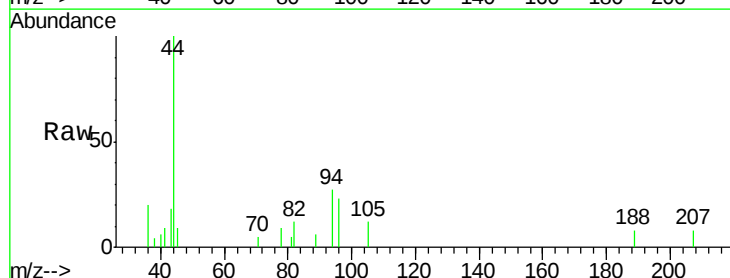
Acq: 26 Dec 2019 13:02

Tgt Ion: 94 Resp: 521

Ion Ratio Lower Upper

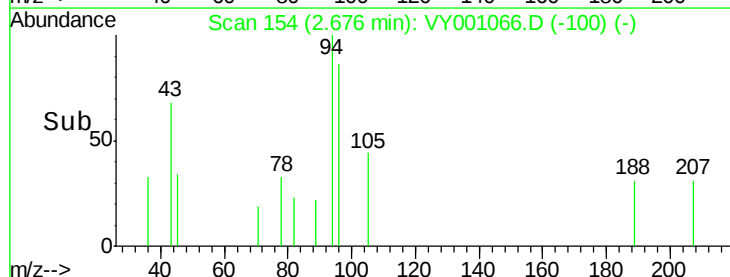
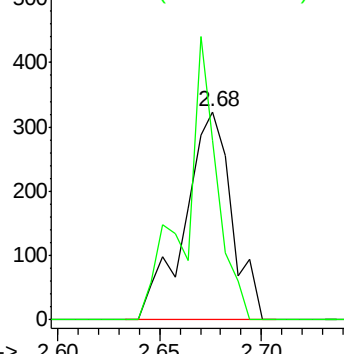
94 100

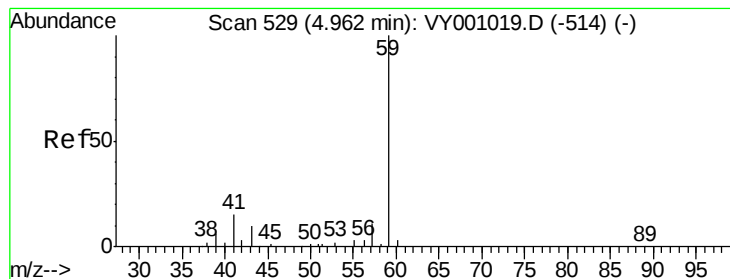
96 86.4 74.2 111.4



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0





#11

Tert butyl alcohol

Concen: 1.697 ug/l

RT: 4.97 min Scan# 531

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

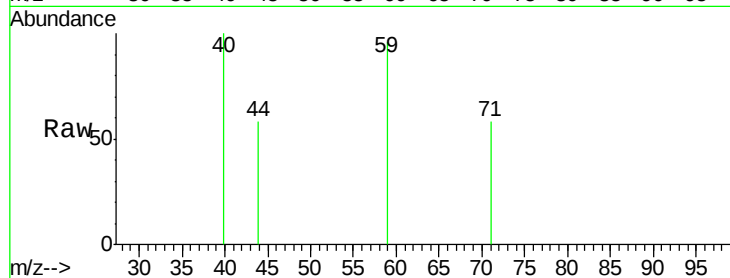
SB-5-(0-2)

Tgt Ion: 59 Resp: 70

Ion Ratio Lower Upper

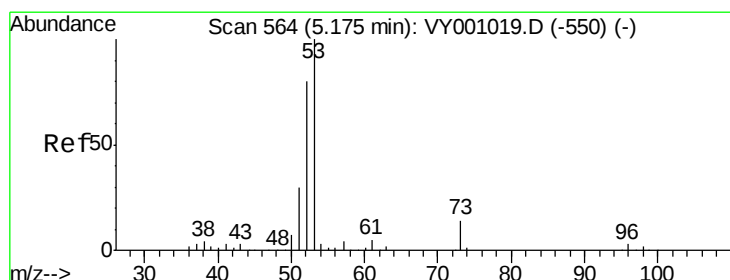
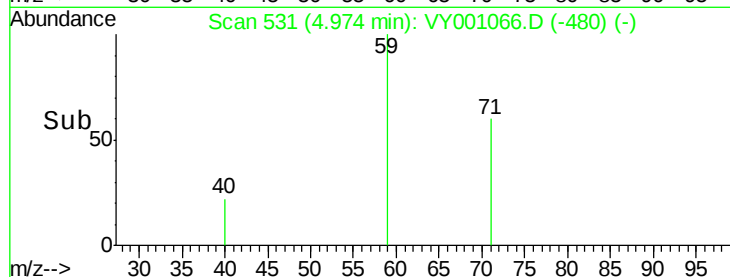
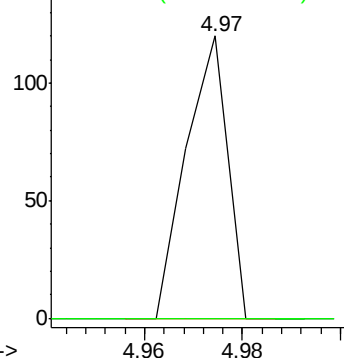
59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0



#15

Acrylonitrile

Concen: 2.579 ug/l

RT: 5.19 min Scan# 567

Delta R.T. 0.02 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

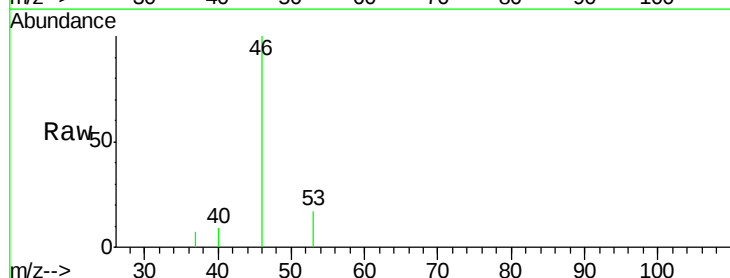
Tgt Ion: 53 Resp: 338

Ion Ratio Lower Upper

53 100

52 45.3 63.6 95.4#

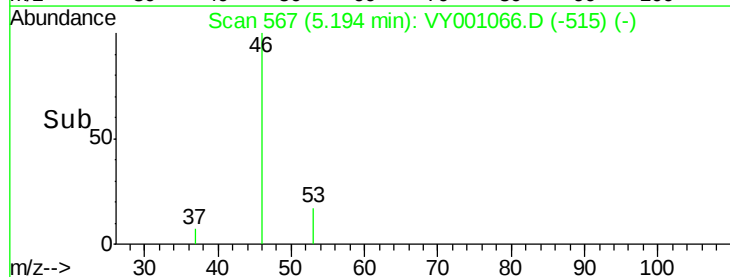
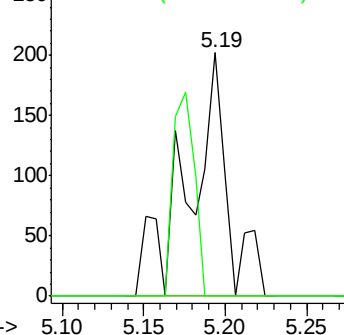
51 0.0 26.7 40.1#

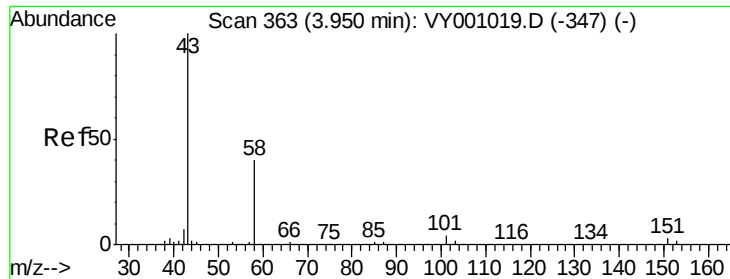


Abundance Ion 53.00 (52.70 to 53.70): VY0

Ion 52.00 (51.70 to 52.70): VY0

Ion 51.00 (50.70 to 51.70): VY0





#16

Acetone

Concen: 13.193 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

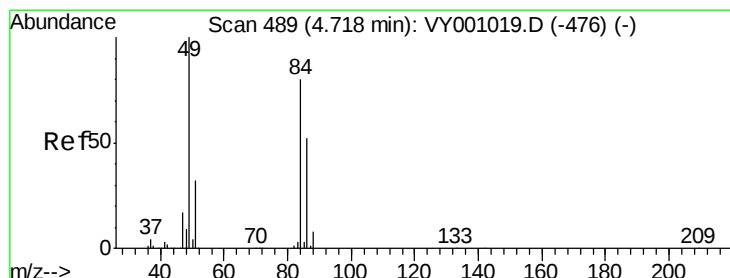
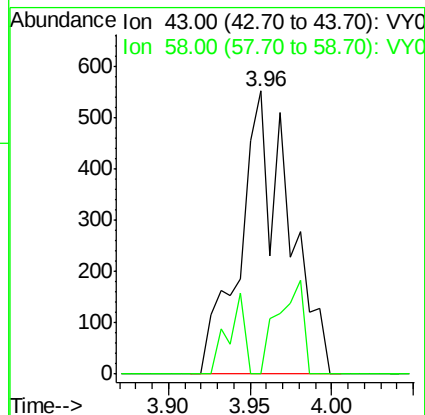
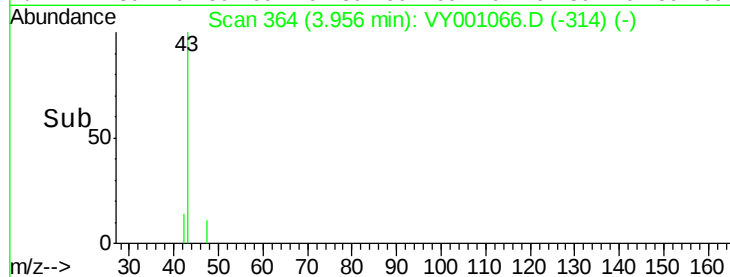
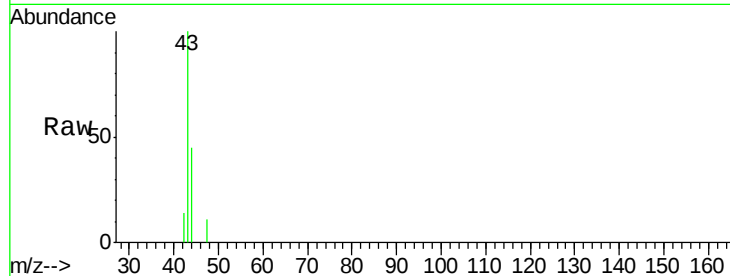
SB-5-(0-2)

Tgt Ion: 43 Resp: 1140

Ion Ratio Lower Upper

43 100

58 0.0 32.1 48.1#



#20

Methylene Chloride

Concen: 2.118 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Tgt Ion: 84 Resp: 1077

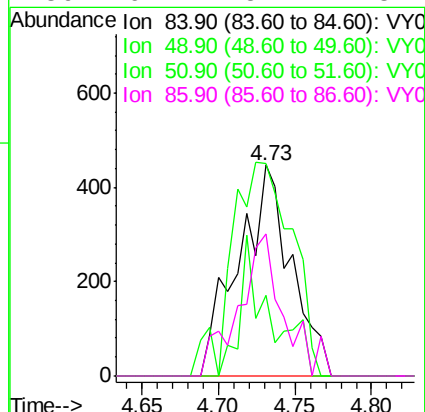
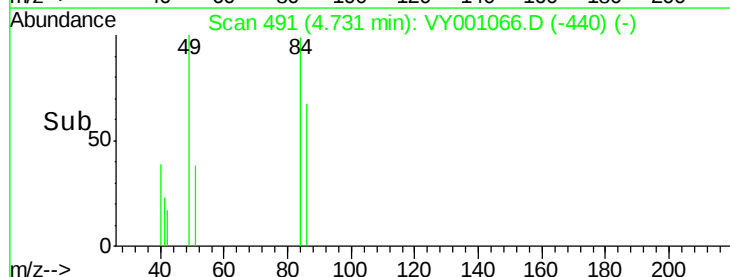
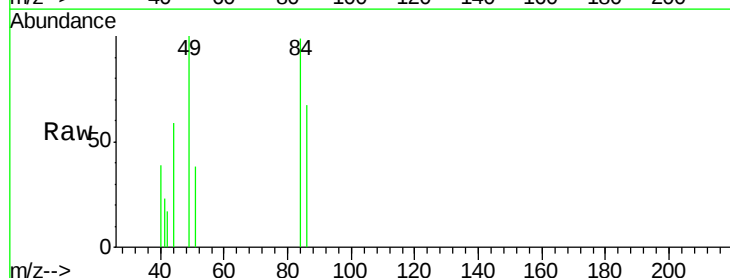
Ion Ratio Lower Upper

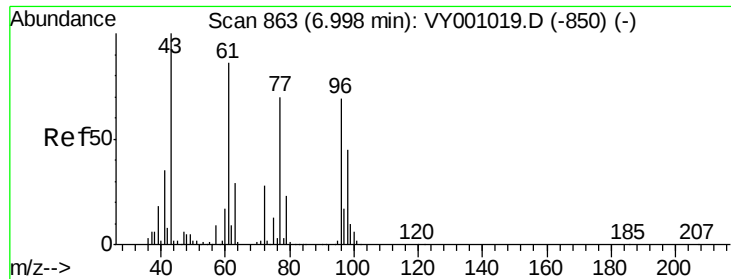
84 100

49 100.7 99.8 149.6

51 38.5 31.4 47.2

86 67.1 52.2 78.2





#25

2-Butanone

Concen: 1.752 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

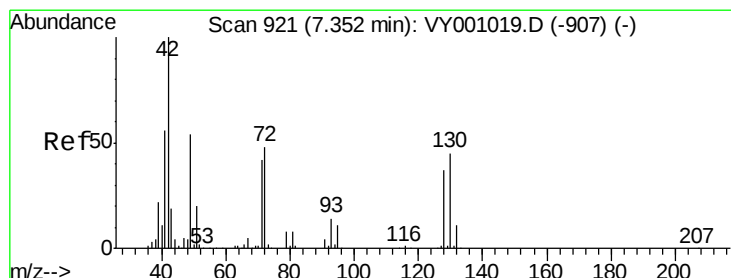
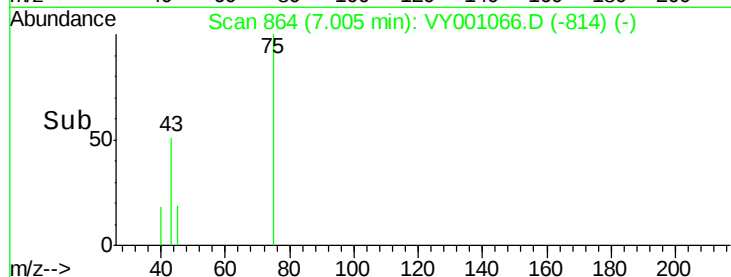
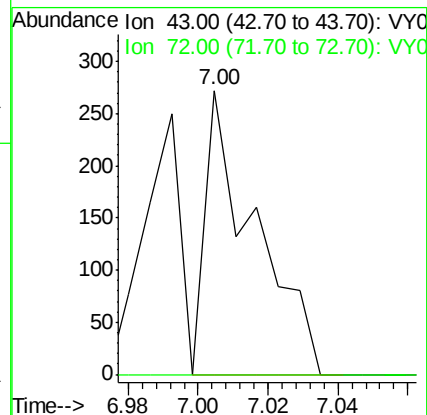
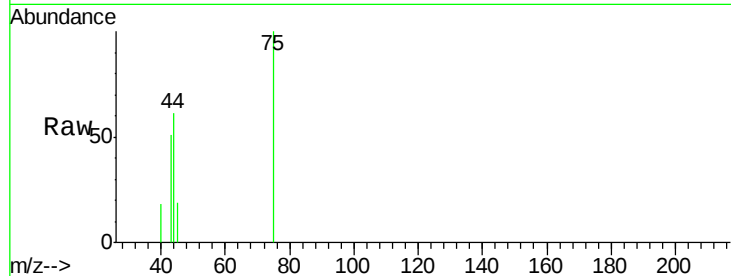
SB-5-(0-2)

Tgt Ion: 43 Resp: 266

Ion Ratio Lower Upper

43 100

72 0.0 22.4 33.6#



#29

Tetrahydrofuran

Concen: 1.204 ug/l

RT: 7.35 min Scan# 921

Delta R.T. 0.00 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

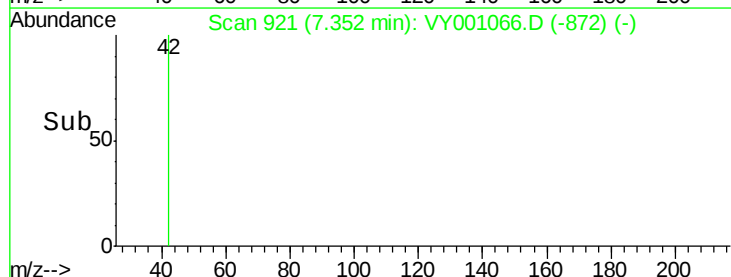
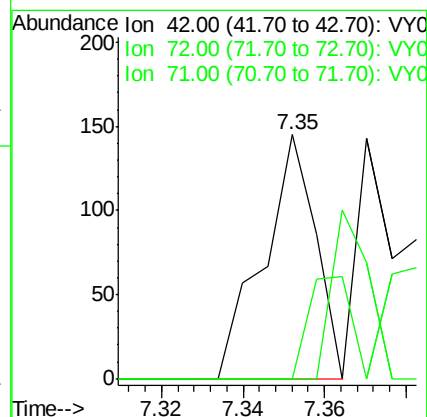
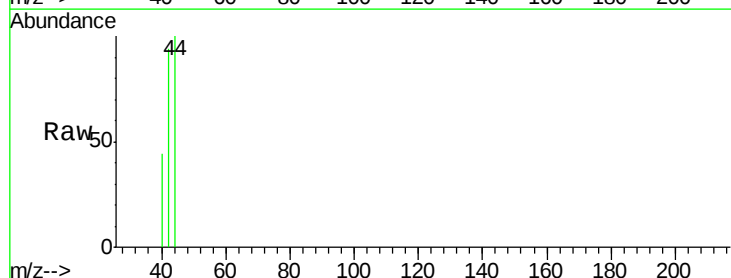
Tgt Ion: 42 Resp: 130

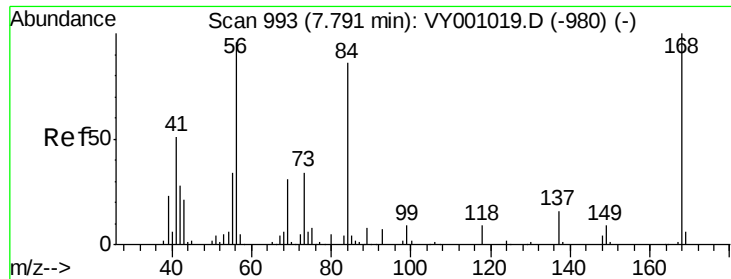
Ion Ratio Lower Upper

42 100

72 0.0 37.7 56.5#

71 0.0 34.6 51.8#

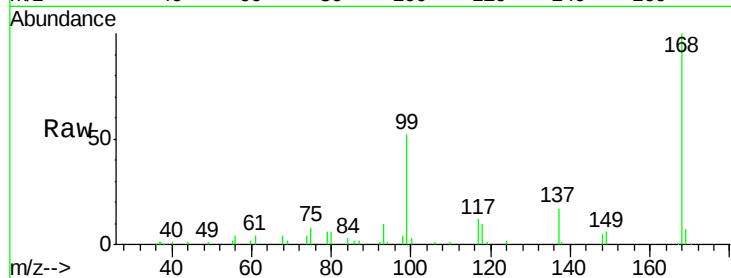




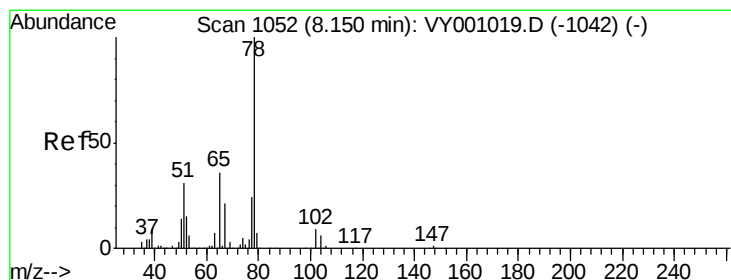
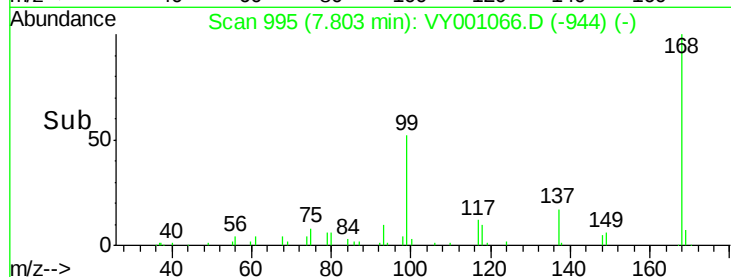
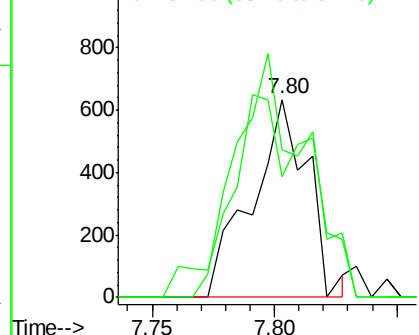
#31
Cyclohexane
Concen: 1.208 ug/l
RT: 7.80 min Scan# 995
Delta R.T. 0.01 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

Instrument :
MSVOA_Y
ClientSampleId :
SB-5-(0-2)

Tgt Ion: 56 Resp: 1007
Ion Ratio Lower Upper
56 100
69 46.8 26.1 39.1#
84 74.6 71.8 107.8

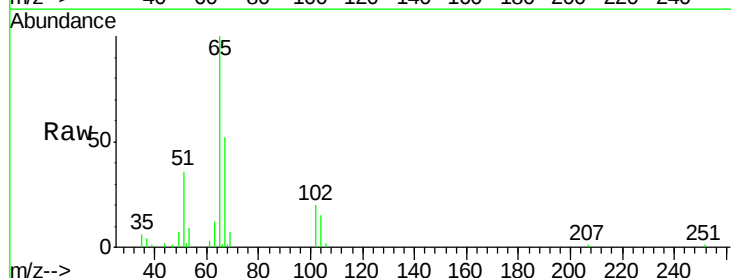


Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0

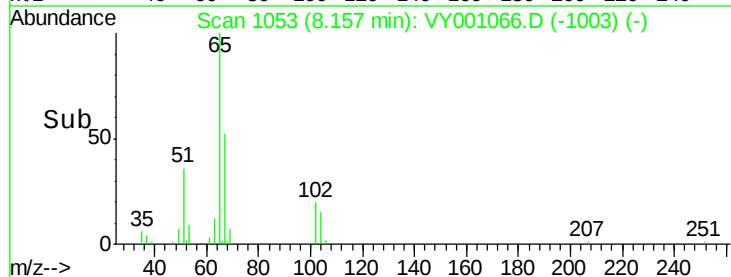
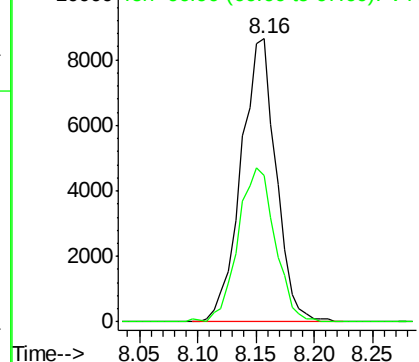


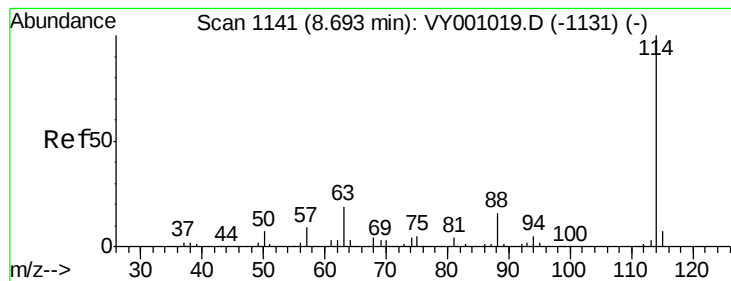
#33
1,2-Dichloroethane-d4
Concen: 48.390 ug/l
RT: 8.16 min Scan# 1053
Delta R.T. 0.01 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

Tgt Ion: 65 Resp: 18150
Ion Ratio Lower Upper
65 100
67 57.7 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0
Ion 66.90 (66.60 to 67.60): VY0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

SB-5-(0-2)

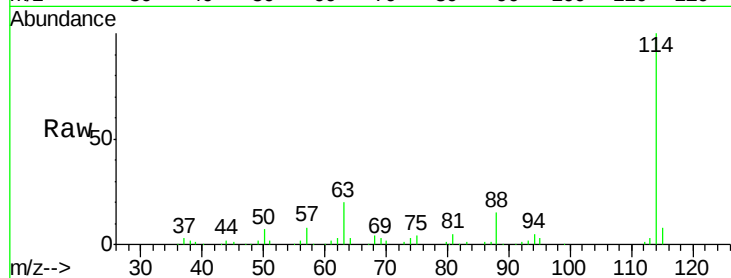
Tgt Ion:114 Resp: 67102

Ion Ratio Lower Upper

114 100

63 19.6 0.0 37.0

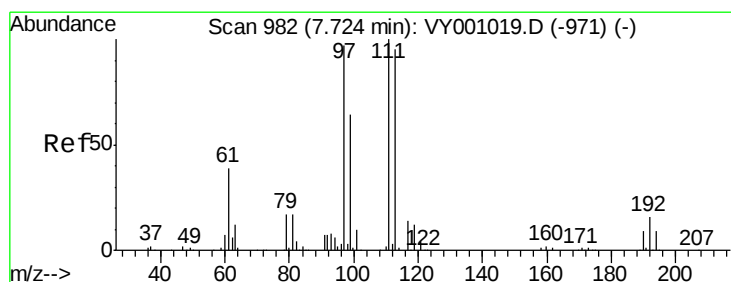
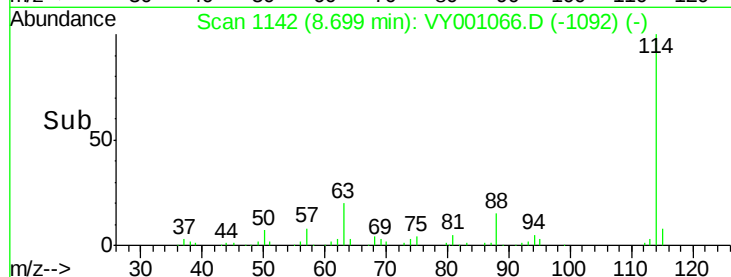
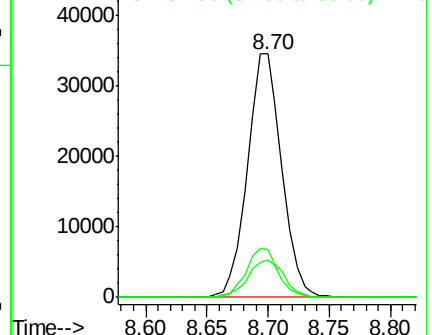
88 15.3 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0



#35

Dibromofluoromethane

Concen: 48.077 ug/l

RT: 7.72 min Scan# 982

Delta R.T. 0.00 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

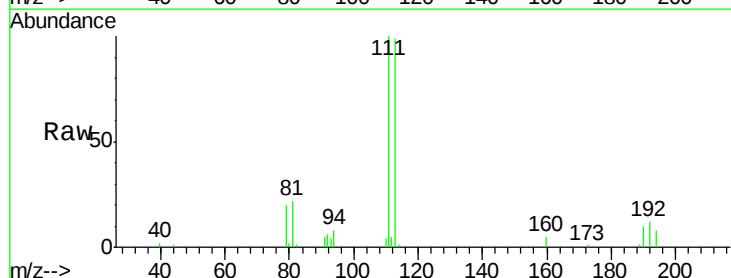
Tgt Ion:113 Resp: 18997

Ion Ratio Lower Upper

113 100

111 102.8 83.0 124.4

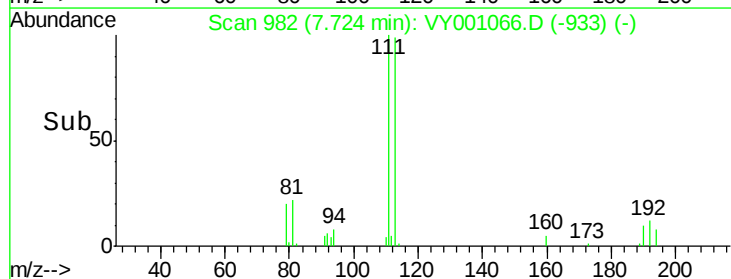
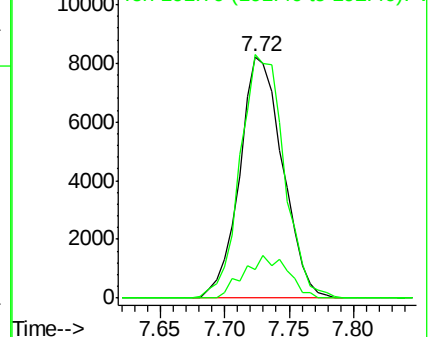
192 18.0 14.6 21.8

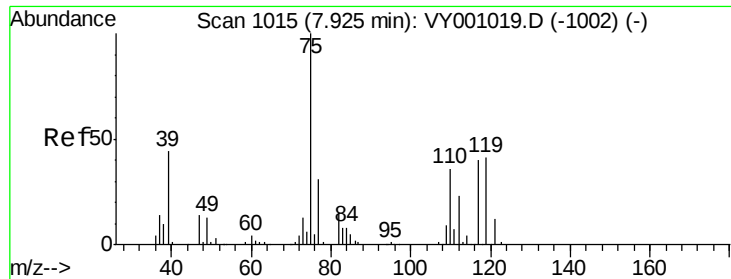


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

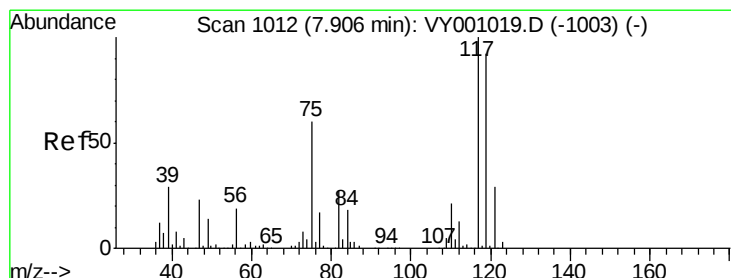
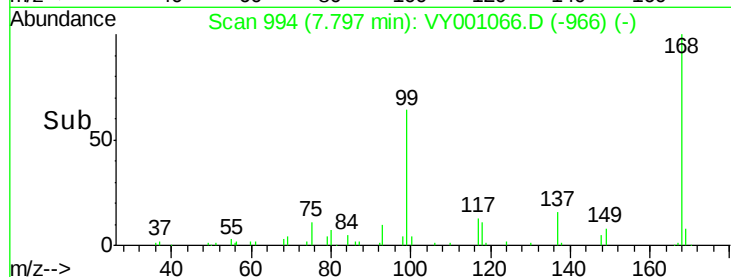
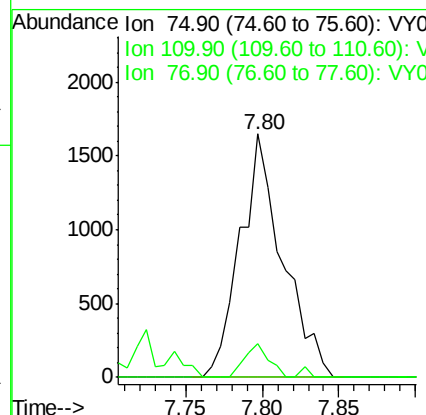
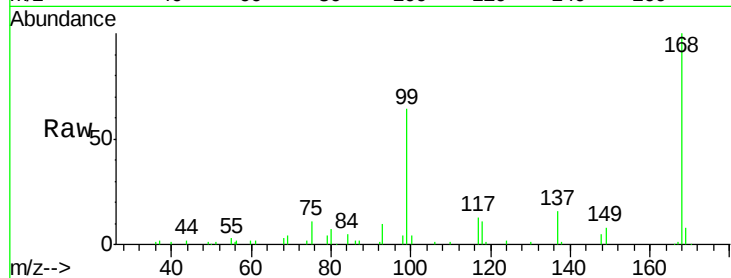




#36
 1,1-Dichloropropene
 Concen: 4.955 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.13 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

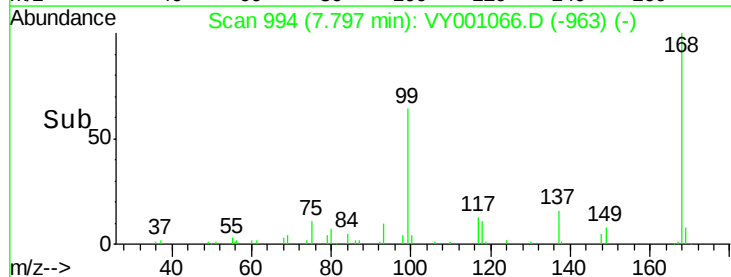
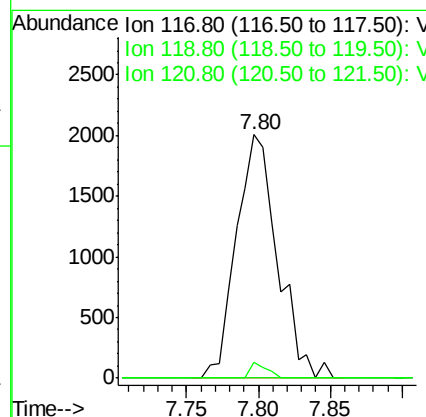
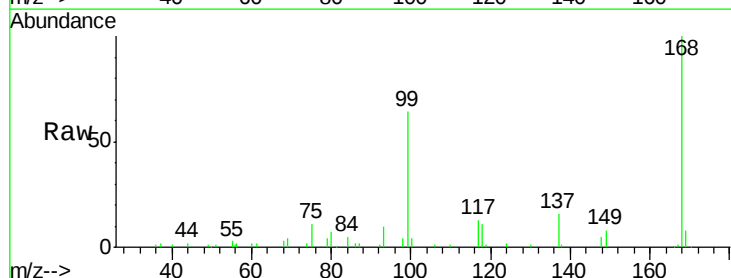
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5-(0-2)

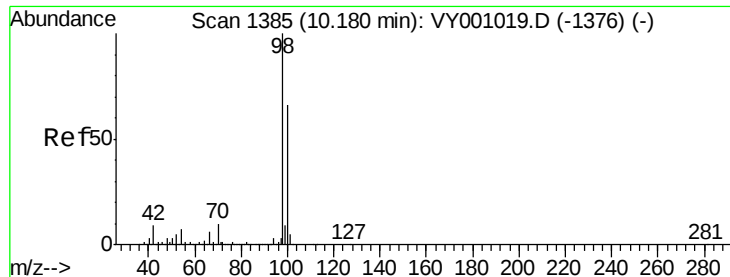
Tgt Ion: 75 Resp: 3172
 Ion Ratio Lower Upper
 75 100
 110 7.8 18.1 54.4#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 7.118 ug/l
 RT: 7.80 min Scan# 994
 Delta R.T. -0.11 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

Tgt Ion: 117 Resp: 3992
 Ion Ratio Lower Upper
 117 100
 119 6.5 74.2 111.2#
 121 0.0 22.9 34.3#





#50

Toluene-d8

Concen: 50.469 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampled :

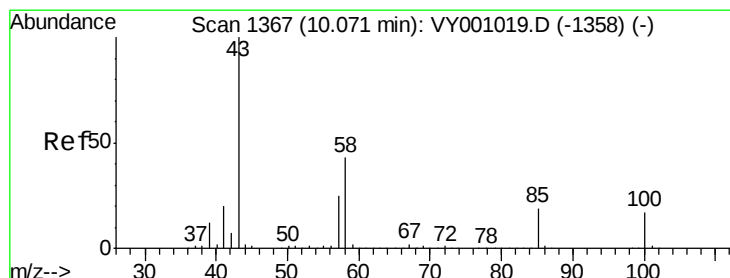
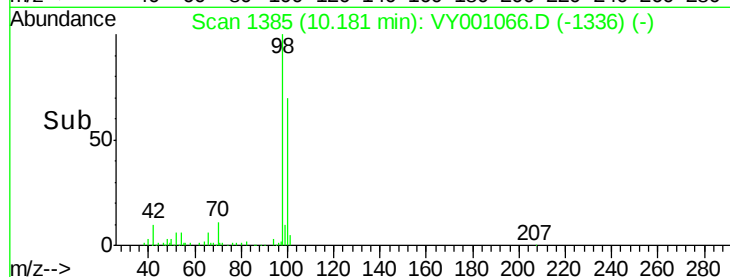
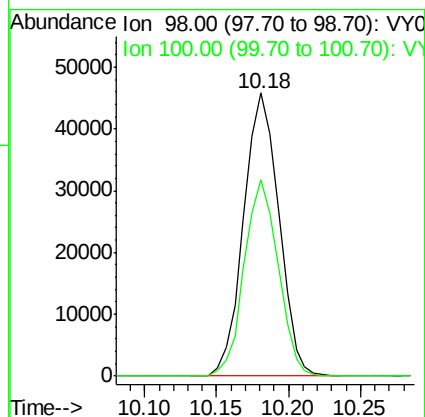
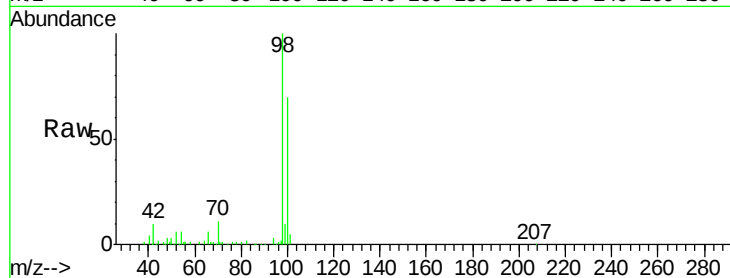
SB-5-(0-2)

Tgt Ion: 98 Resp: 77933

Ion Ratio Lower Upper

98 100

100 66.6 53.0 79.4



#51

4-Methyl-2-Pentanone

Concen: 1.845 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VY001066.D

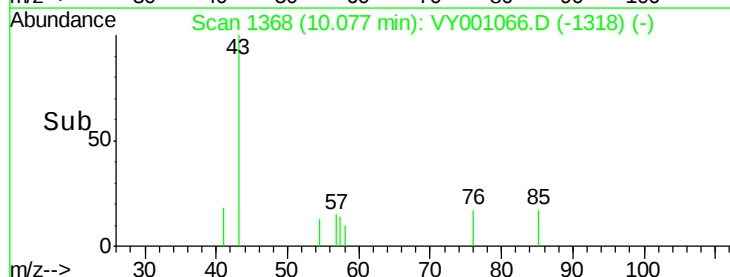
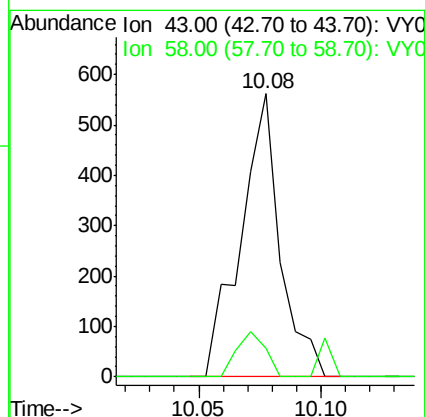
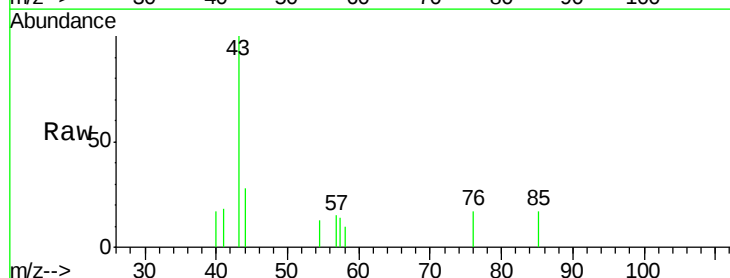
Acq: 26 Dec 2019 13:02

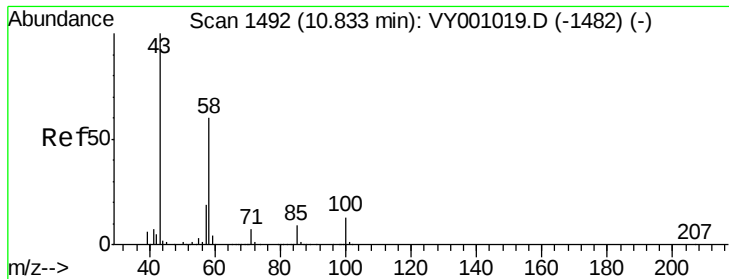
Tgt Ion: 43 Resp: 631

Ion Ratio Lower Upper

43 100

58 11.7 34.6 52.0#

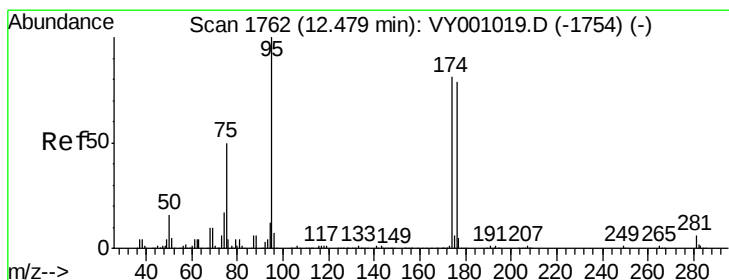
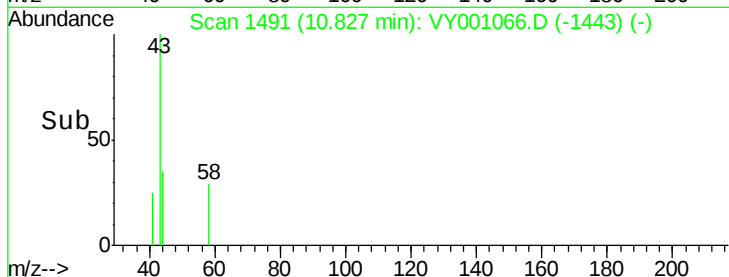
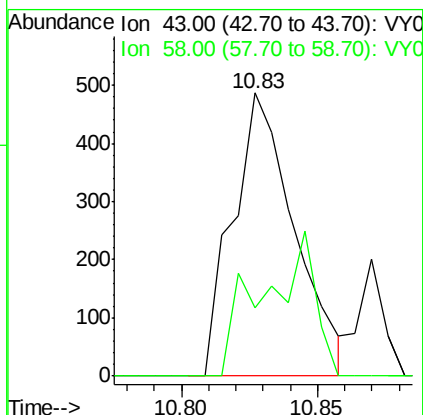
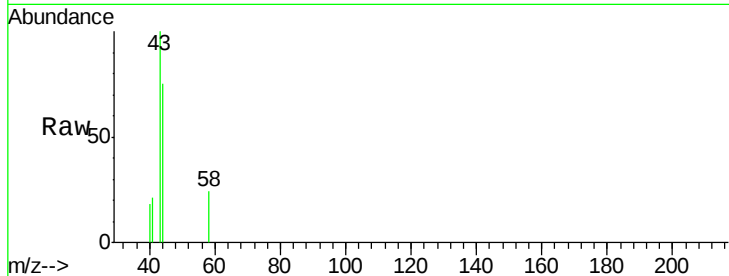




#59
2-Hexanone
Concen: 3.228 ug/l
RT: 10.83 min Scan# 1491
Delta R.T. -0.01 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

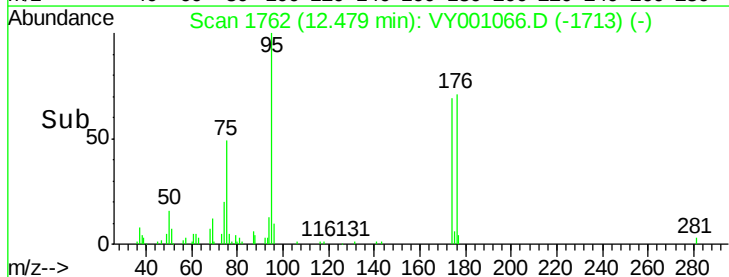
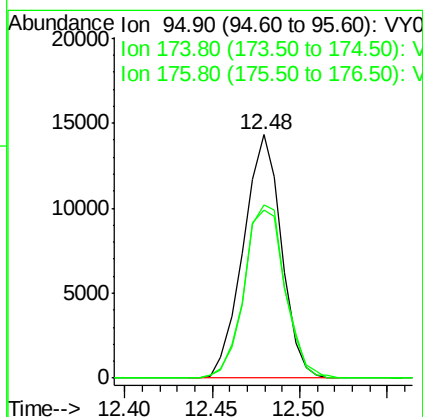
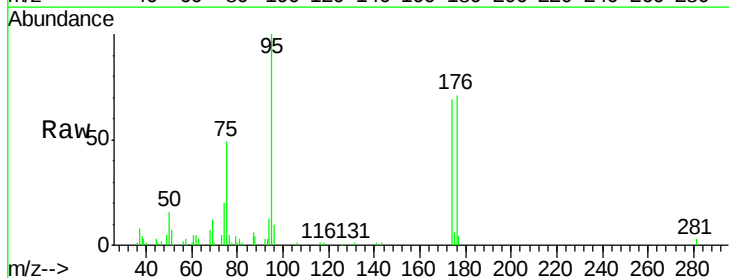
Instrument :
MSVOA_Y
ClientSampled :
SB-5-(0-2)

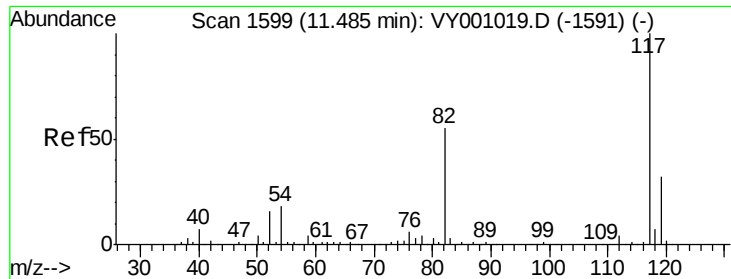
Tgt Ion: 43 Resp: 764
Ion Ratio Lower Upper
43 100
58 43.5 30.6 91.6



#62
4-Bromofluorobenzene
Concen: 38.436 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

Tgt Ion: 95 Resp: 21700
Ion Ratio Lower Upper
95 100
174 74.5 0.0 156.4
176 75.8 0.0 155.0

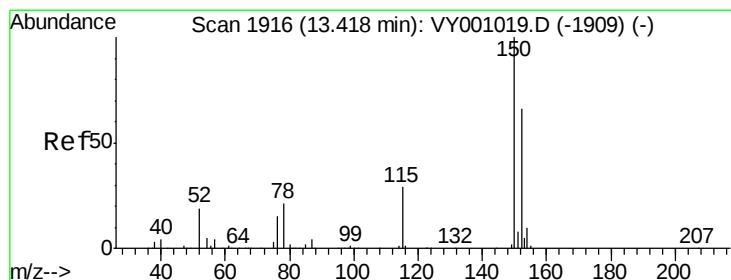
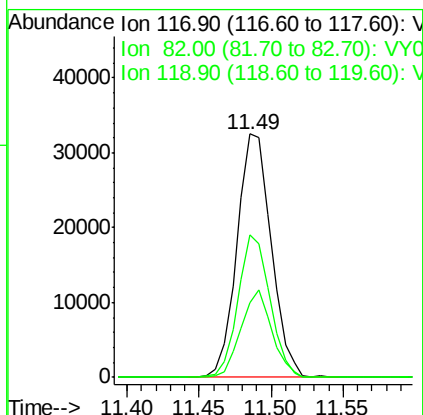
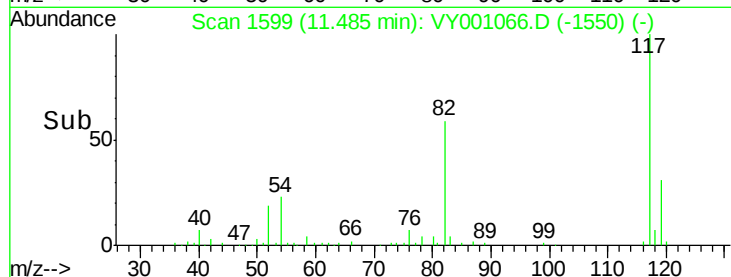
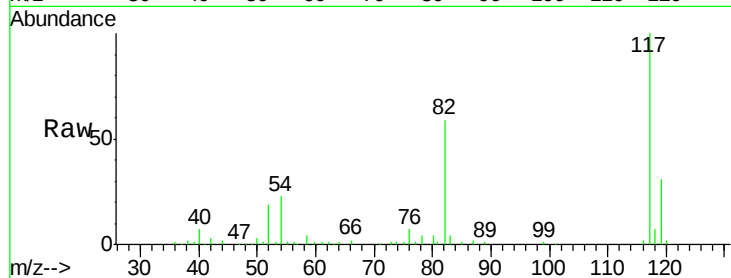




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1599
Delta R.T. 0.00 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

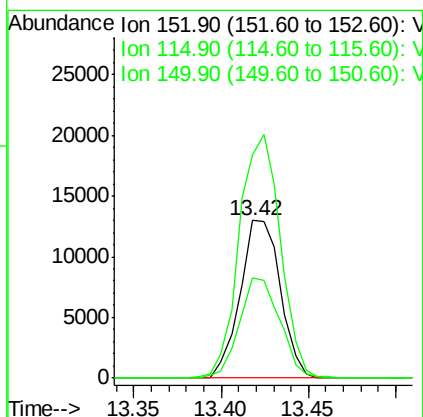
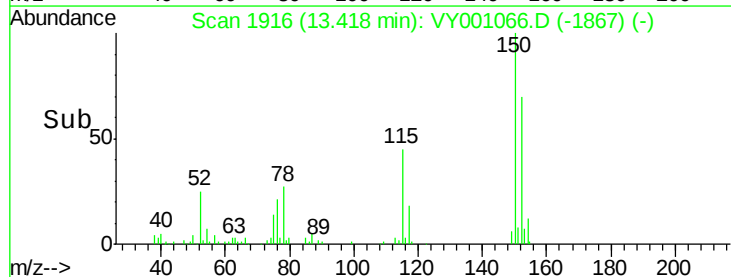
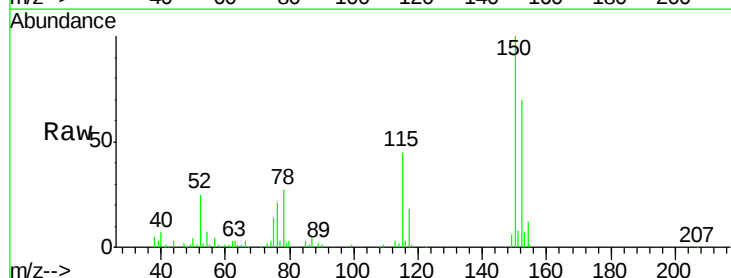
Instrument :
MSVOA_Y
ClientSampleId :
SB-5-(0-2)

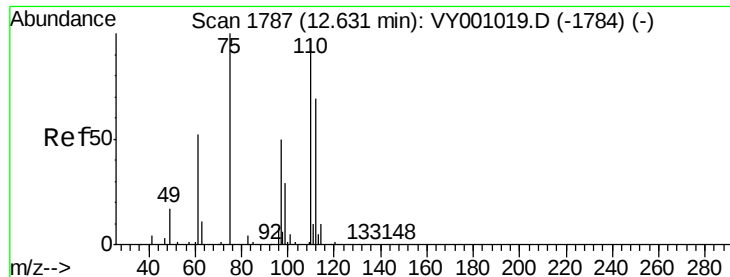
Tgt Ion:117 Resp: 53626
Ion Ratio Lower Upper
117 100
82 58.6 43.8 65.8
119 30.5 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VY001066.D
Acq: 26 Dec 2019 13:02

Tgt Ion:152 Resp: 20793
Ion Ratio Lower Upper
152 100
115 63.8 29.8 89.3
150 158.0 0.0 352.6





#76

1,2,3-Trichloropropane

Concen: 42.967 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

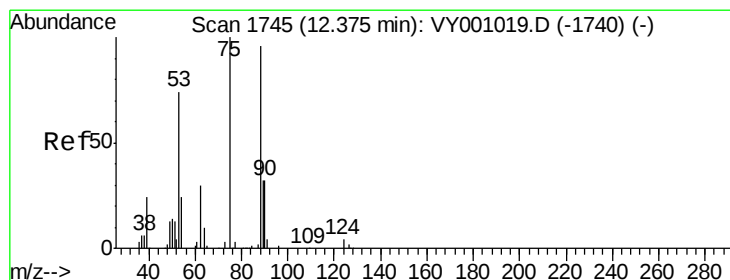
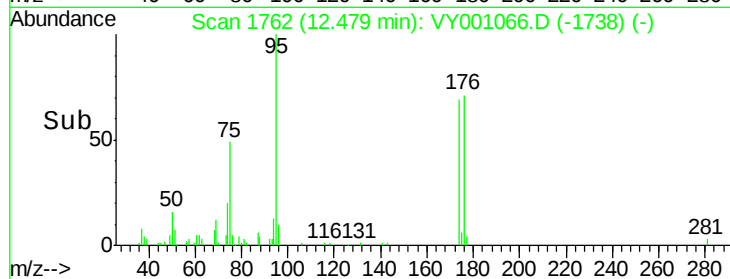
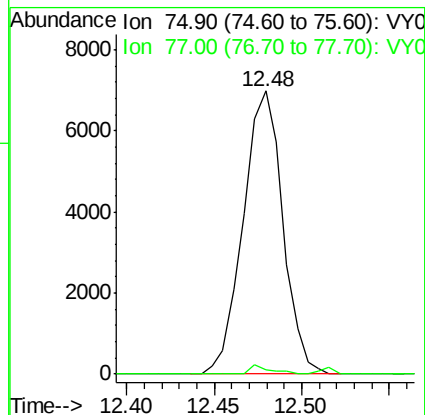
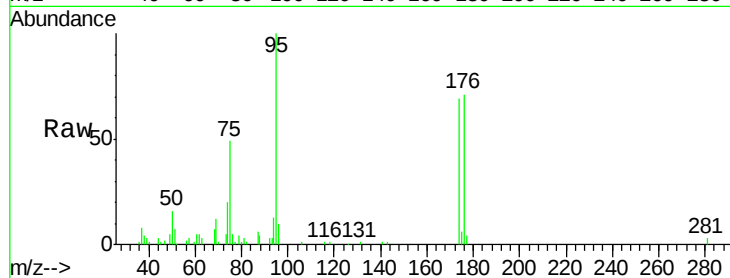
SB-5-(0-2)

Tgt Ion: 75 Resp: 11014

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 91.639 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

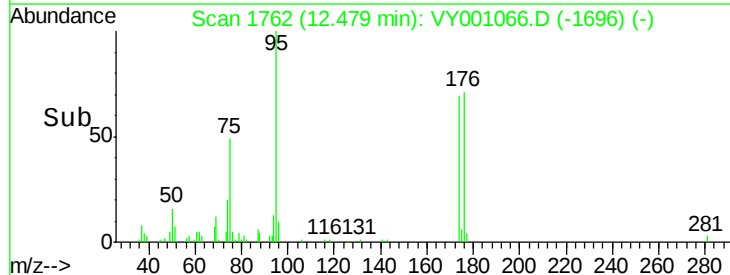
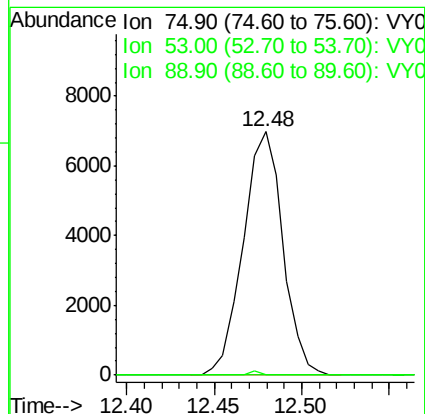
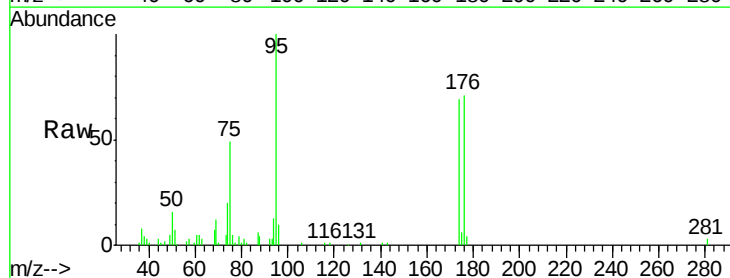
Tgt Ion: 75 Resp: 11014

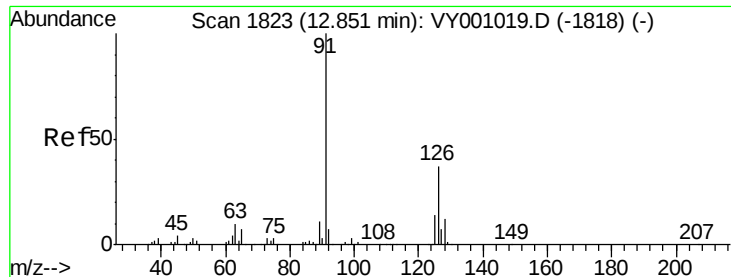
Ion Ratio Lower Upper

75 100

53 0.0 60.6 91.0#

89 0.4 35.4 53.0#





#82

4-Chlorotoluene

Concen: 1.101 ug/l

RT: 12.85 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

Instrument :

MSVOA_Y

ClientSampleId :

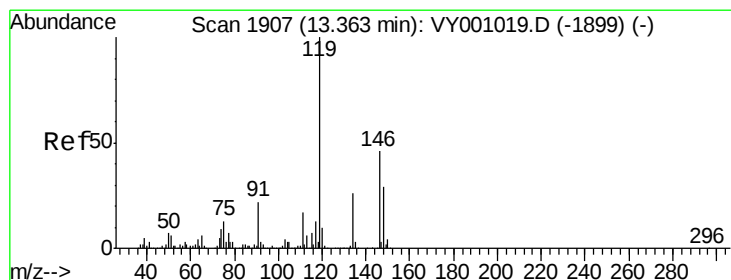
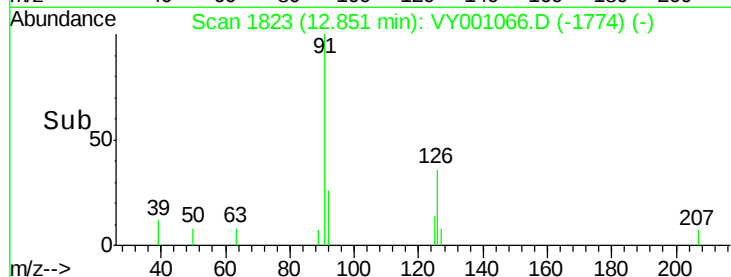
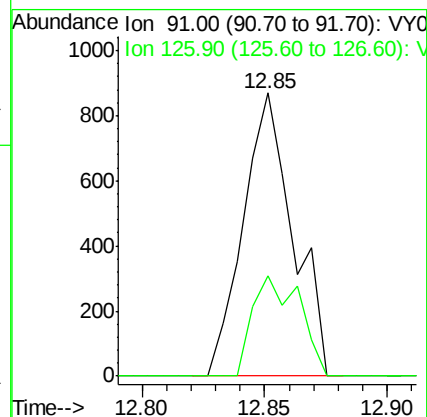
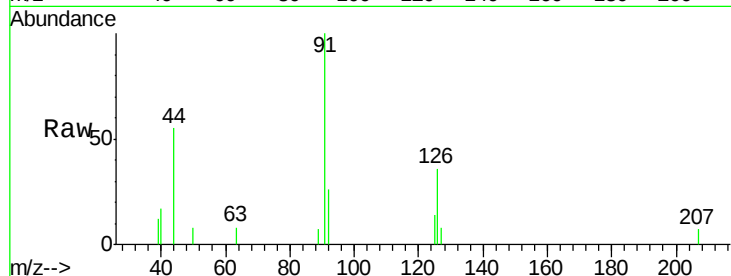
SB-5-(0-2)

Tgt Ion: 91 Resp: 1238

Ion Ratio Lower Upper

91 100

126 33.4 17.6 52.8



#87

1,3-Dichlorobenzene

Concen: 1.509 ug/l

RT: 13.36 min Scan# 1907

Delta R.T. 0.00 min

Lab File: VY001066.D

Acq: 26 Dec 2019 13:02

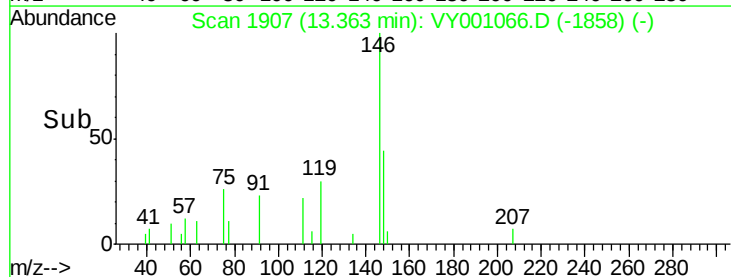
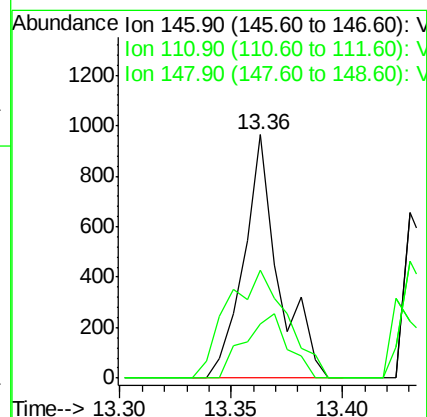
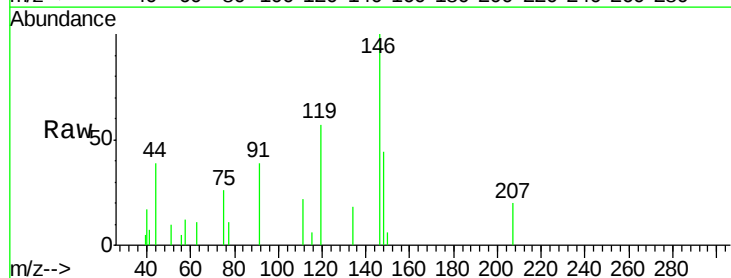
Tgt Ion: 146 Resp: 1049

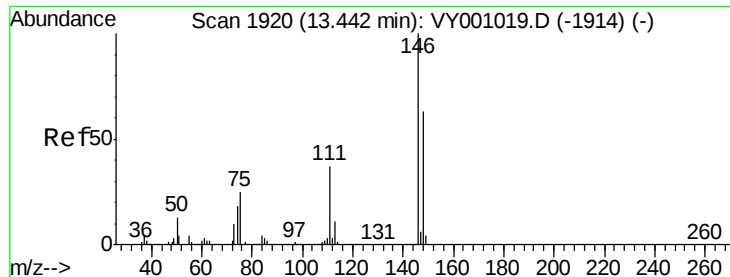
Ion Ratio Lower Upper

146 100

111 32.7 19.7 59.0

148 76.0 31.9 95.5

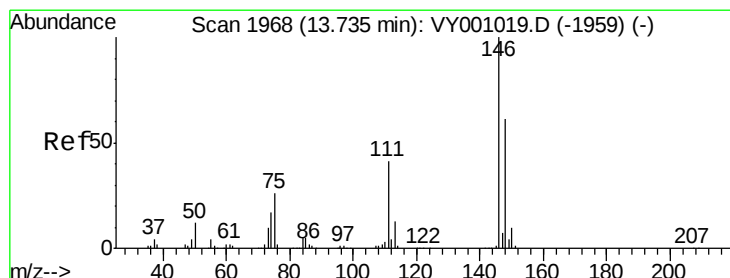
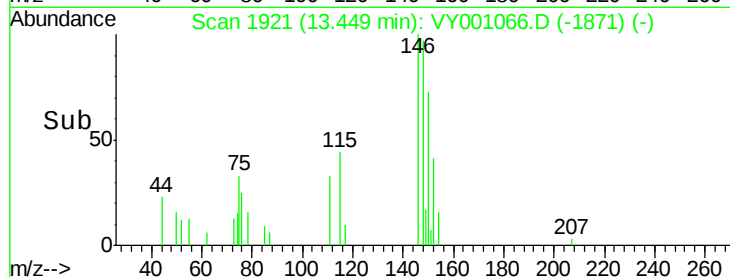
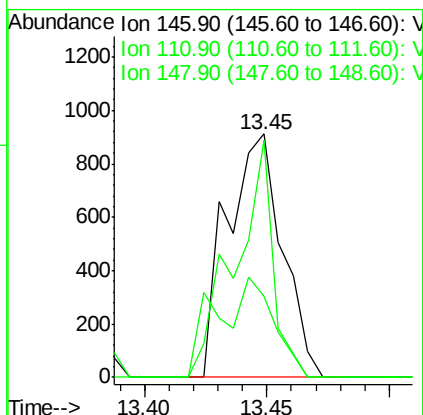
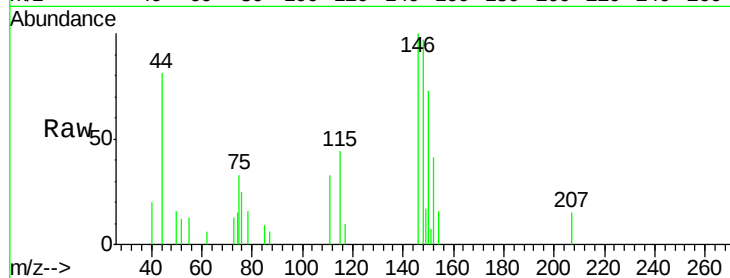




#88
 1,4-Dichlorobenzene
 Concen: 2.054 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. 0.01 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

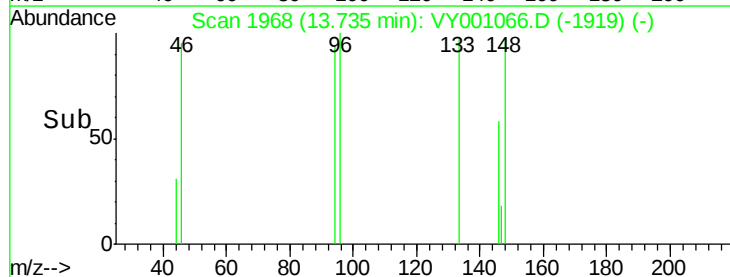
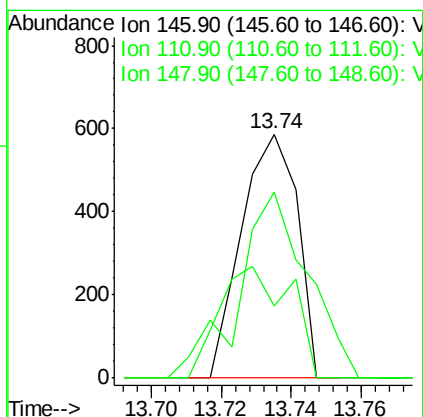
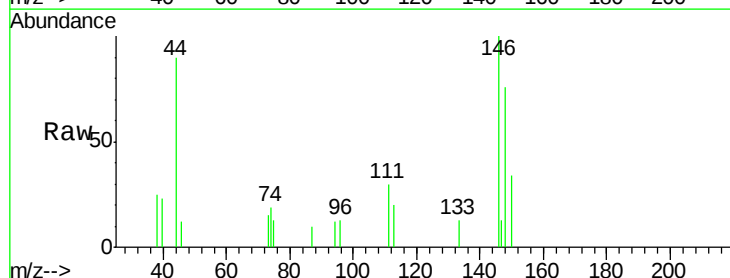
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5-(0-2)

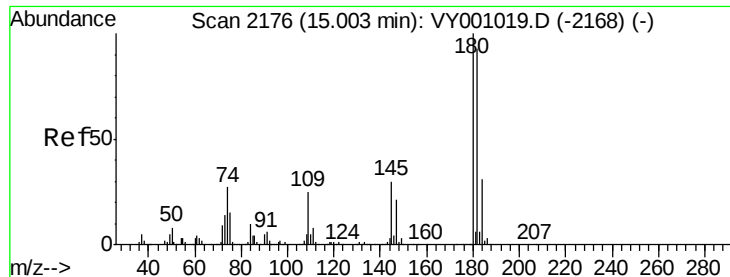
Tgt Ion:146 Resp: 1440
 Ion Ratio Lower Upper
 146 100
 111 42.2 19.4 58.2
 148 67.0 31.8 95.3



#91
 1,2-Dichlorobenzene
 Concen: 1.011 ug/l
 RT: 13.74 min Scan# 1968
 Delta R.T. 0.00 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

Tgt Ion:146 Resp: 648
 Ion Ratio Lower Upper
 146 100
 111 58.3 20.6 61.9
 148 94.6 31.6 94.7

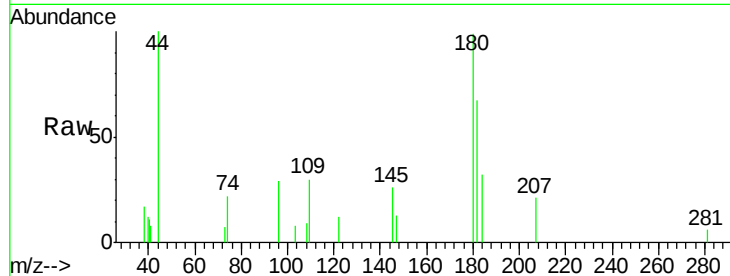




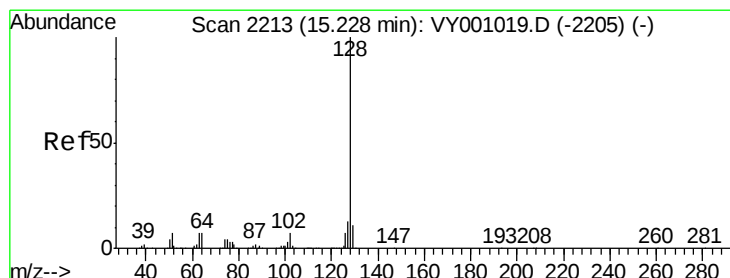
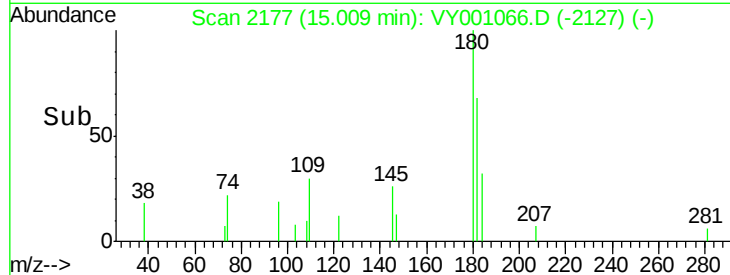
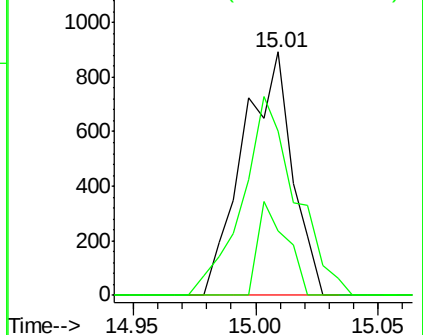
#93
 1,2,4-Trichlorobenzene
 Concen: 2.907 ug/l
 RT: 15.01 min Scan# 2177
 Delta R.T. 0.01 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5-(0-2)

Tgt Ion:180 Resp: 1258
 Ion Ratio Lower Upper
 180 100
 182 88.4 46.8 140.3
 145 22.3 15.3 45.9

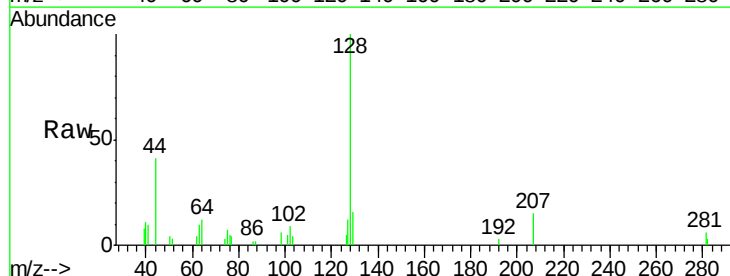


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

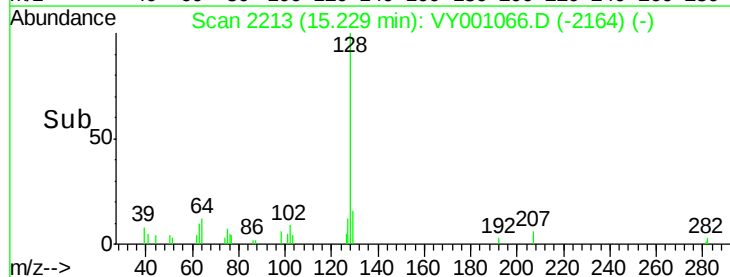
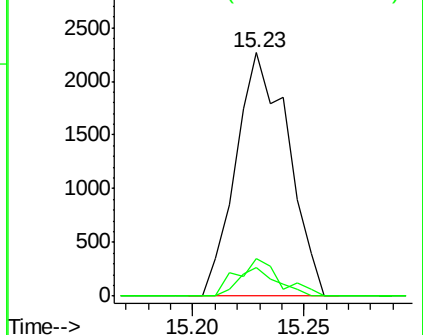


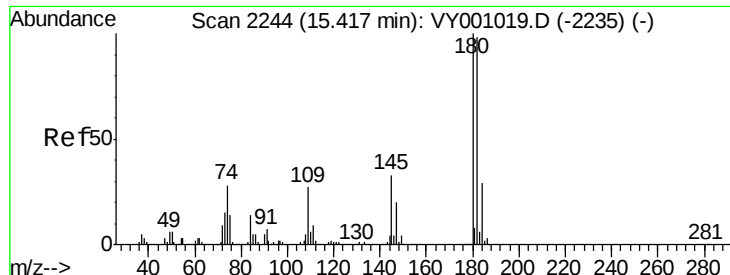
#95
 Naphthalene
 Concen: 3.647 ug/l
 RT: 15.23 min Scan# 2213
 Delta R.T. 0.00 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

Tgt Ion:128 Resp: 3712
 Ion Ratio Lower Upper
 128 100
 127 8.5 9.9 14.9#
 129 12.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.762 ug/l
 RT: 15.42 min Scan# 2244
 Delta R.T. 0.00 min
 Lab File: VY001066.D
 Acq: 26 Dec 2019 13:02

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-5-(0-2)

Tgt Ion	Ratio	Lower	Upper
180	100		
182	79.3	47.9	143.8
145	28.0	16.3	48.9

