

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_Y\DATA\VY011520\
 Data File : VY001243.D
 Acq On : 16 Jan 2020 01:34
 Operator : SY/MD
 Sample : L1136-05
 Misc : 9.48G/5ML/MSVOA_Y/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 WP022SB457_200113_28-30

Quant Time: Jan 16 04:56:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y011020S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 10 16:01:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	168814	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.70	114	307574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	283528	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	135219	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	101730	57.06	ug/l	0.00
Spiked Amount			Recovery	=	114.12%	
35) Dibromofluoromethane	7.73	113	92158	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
50) Toluene-d8	10.18	98	360221	51.91	ug/l	0.00
Spiked Amount			Recovery	=	103.82%	
62) 4-Bromofluorobenzene	12.48	95	135995	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	

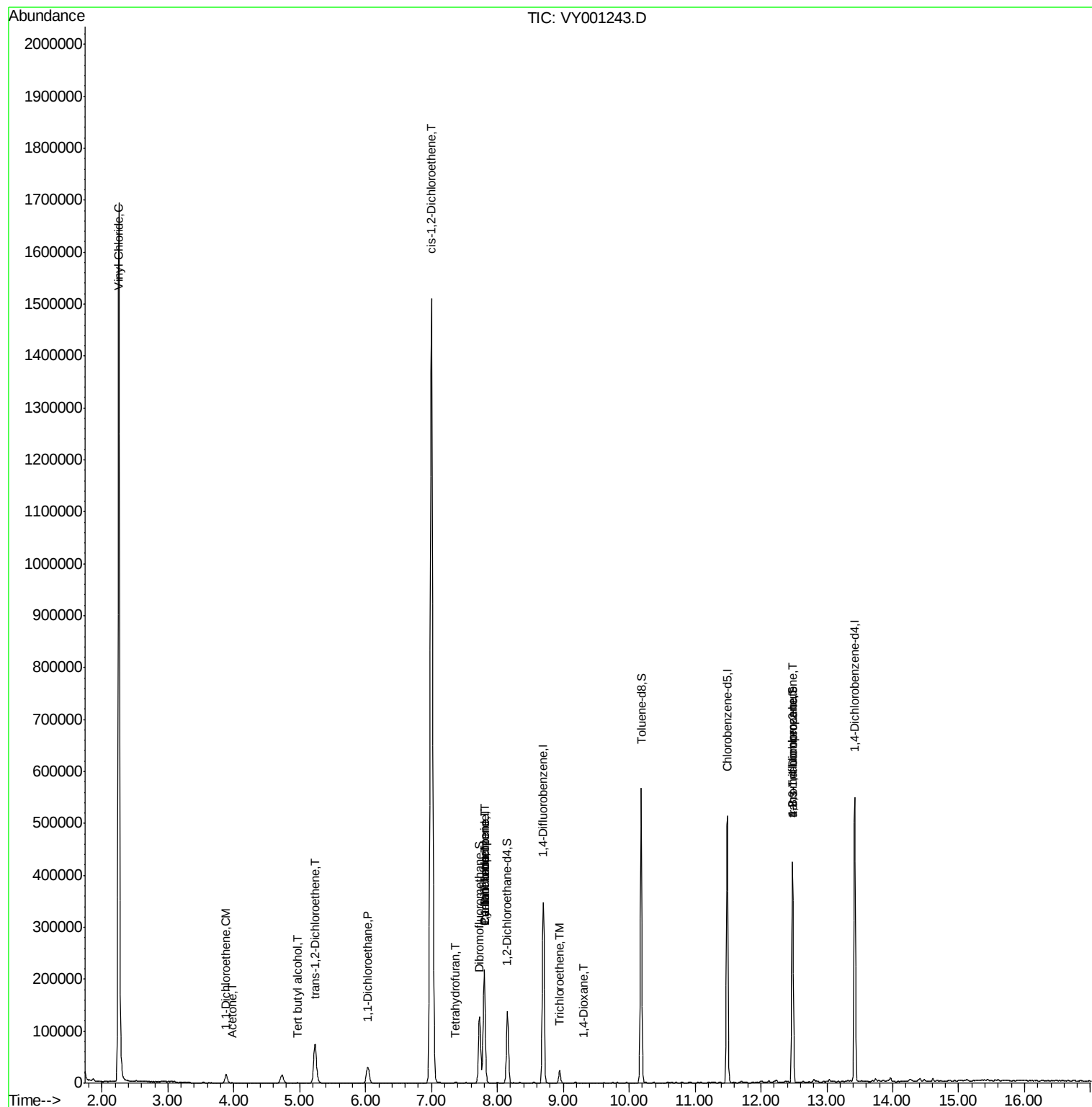
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.26	62	1600766	850.265	ug/l	100
11) Tert butyl alcohol	4.97	59	918	5.117	ug/l #	73
12) 1,1-Dichloroethene	3.88	96	9504	5.507	ug/l	98
16) Acetone	3.96	43	775	1.872	ug/l #	86
21) trans-1,2-Dichloroethene	5.23	96	51300	26.216	ug/l	97
24) 1,1-Dichloroethane	6.04	63	46106	14.157	ug/l	98
27) cis-1,2-Dichloroethene	7.00	96	953781	444.820	ug/l	89
29) Tetrahydrofuran	7.37	42	651	1.474	ug/l #	88
31) Cyclohexane	7.80	56	3732	1.082	ug/l #	4
36) 1,1-Dichloropropene	7.80	75	12971	4.627	ug/l #	49
38) Carbon Tetrachloride	7.80	117	16700	6.500	ug/l #	15
44) Trichloroethene	8.95	130	8742	4.100	ug/l	85
49) 1,4-Dioxane	9.31	88	351	26.111	ug/l #	57
76) 1,2,3-Trichloropropane	12.48	75	66277	45.786	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	66277	77.643	ug/l #	6

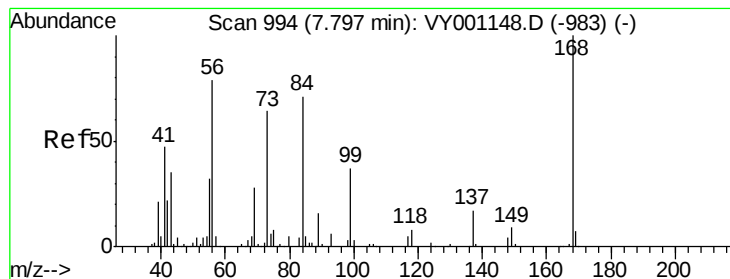
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jan 10 16:01:58 2020
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: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

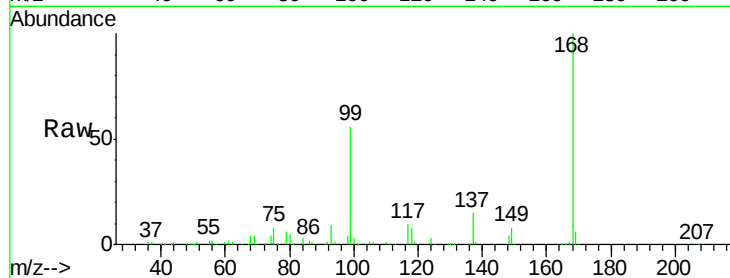
WP022SB457_200113_28-30

Tgt Ion:168 Resp: 168814

Ion Ratio Lower Upper

168 100

99 56.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.80

80000

60000

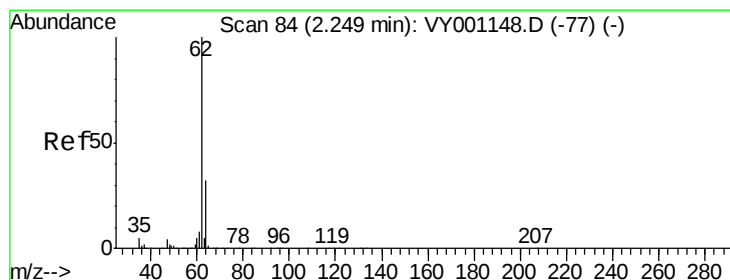
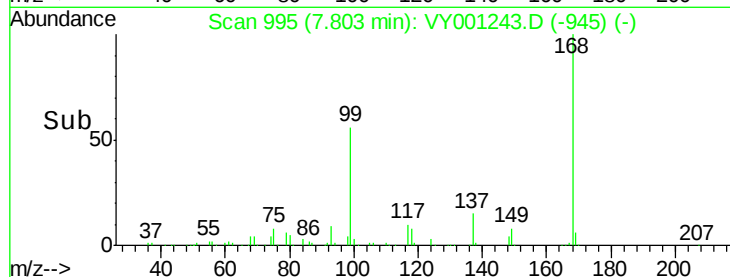
40000

20000

0

7.70 7.80 7.90

Time-->



#4

Vinyl Chloride

Concen: 850.265 ug/l

RT: 2.26 min Scan# 85

Delta R.T. 0.01 min

Lab File: VY001243.D

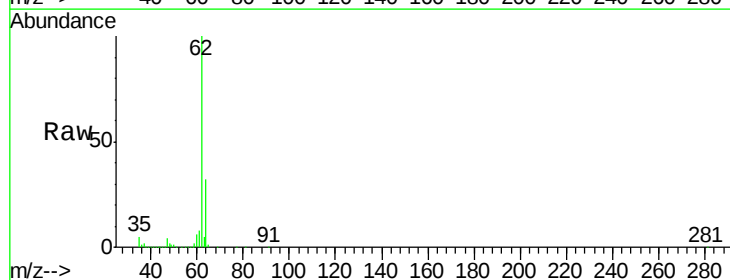
Acq: 16 Jan 2020 01:34

Tgt Ion: 62 Resp: 1600766

Ion Ratio Lower Upper

62 100

64 32.2 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VY001148.D (-77) (-)

Ion 63.90 (63.60 to 64.60): VY001148.D (-77) (-)

2.26

1000000

800000

600000

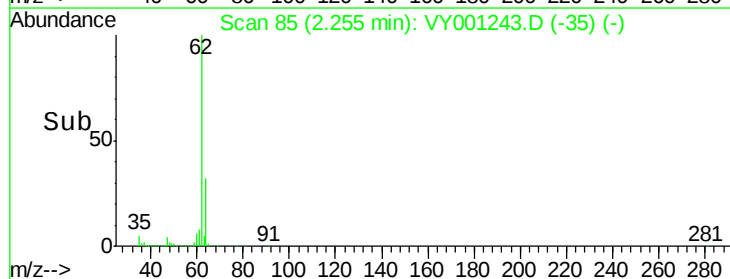
400000

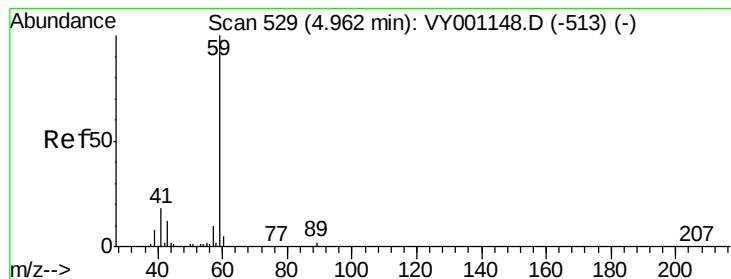
200000

0

2.10 2.20 2.30 2.40 2.50

Time-->



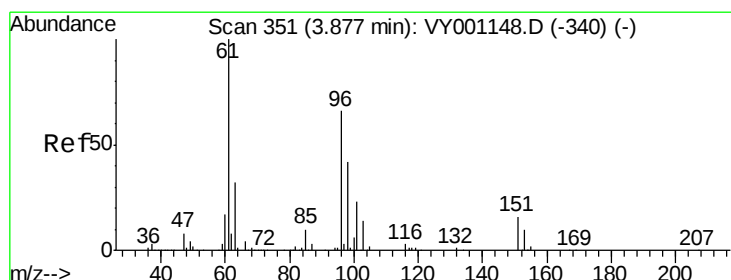
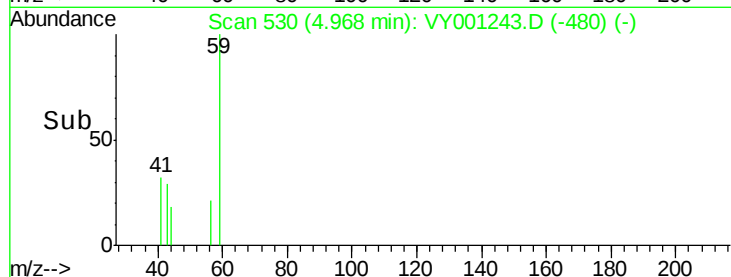
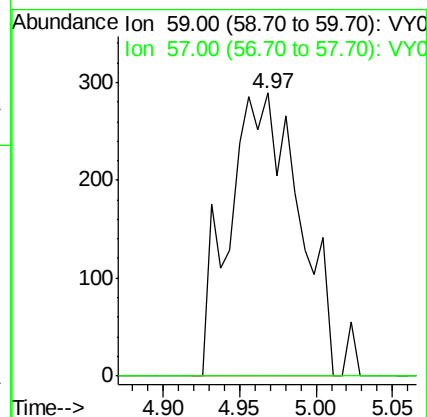
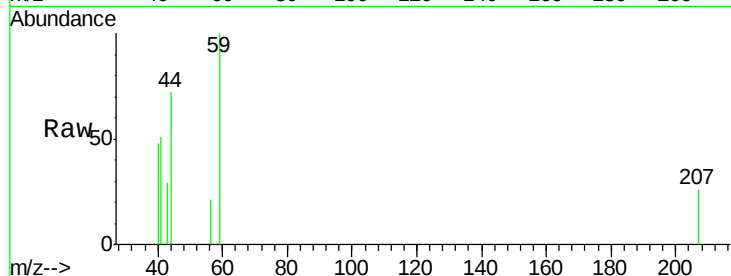


#11

Tert butyl alcohol
 Concen: 5.117 ug/l
 RT: 4.97 min Scan# 530
 Delta R.T. 0.01 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

Instrument :
 MSVOA_Y
 ClientSampleId :
 WP022SB457_200113_28-30

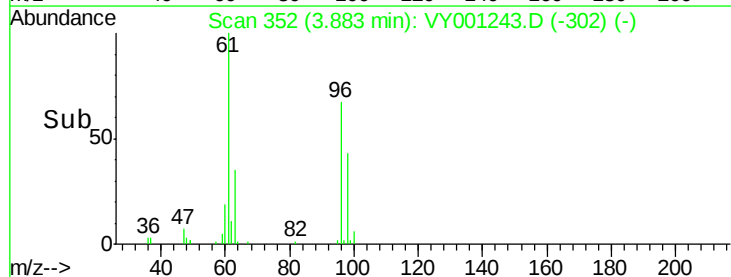
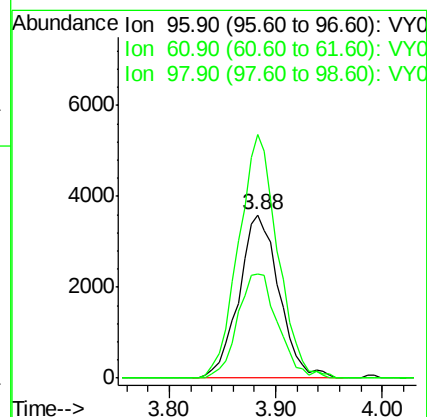
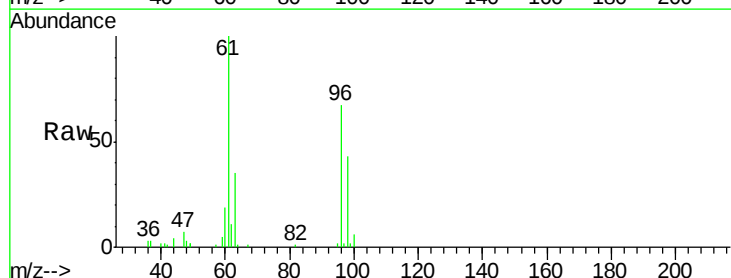
Tgt Ion: 59 Resp: 918
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

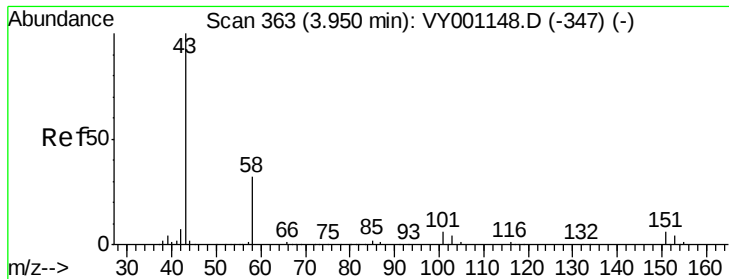


#12

1,1-Dichloroethene
 Concen: 5.507 ug/l
 RT: 3.88 min Scan# 352
 Delta R.T. 0.01 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

Tgt Ion: 96 Resp: 9504
 Ion Ratio Lower Upper
 96 100
 61 149.4 122.1 183.1
 98 64.1 51.0 76.6





#16

Acetone

Concen: 1.872 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

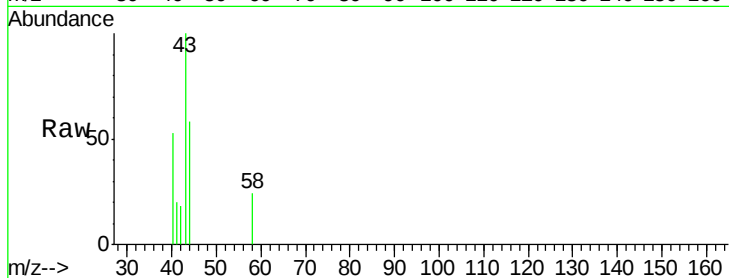
WP022SB457_200113_28-30

Tgt Ion: 43 Resp: 775

Ion Ratio Lower Upper

43 100

58 24.2 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.96

300

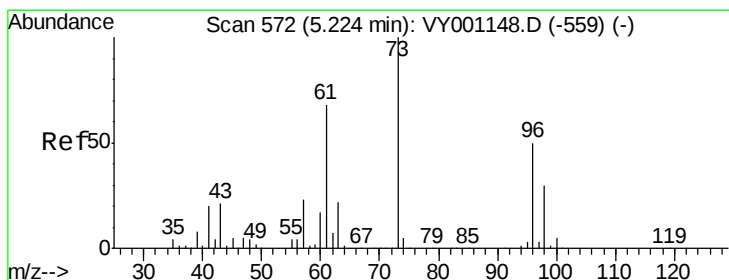
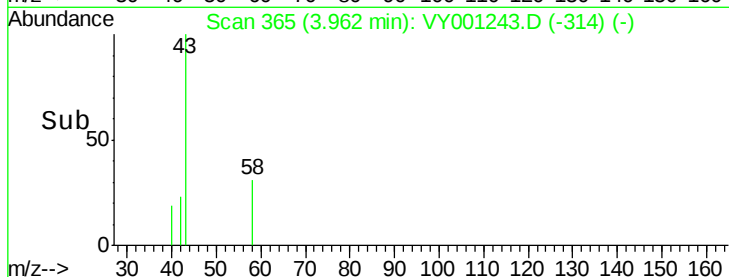
200

100

0

3.90 3.95 4.00

Time-->



#21

trans-1,2-Dichloroethene

Concen: 26.216 ug/l

RT: 5.23 min Scan# 573

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

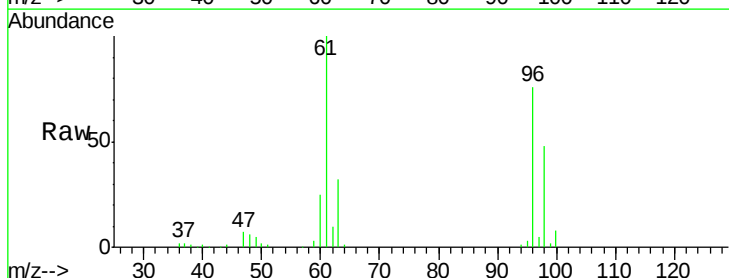
Tgt Ion: 96 Resp: 51300

Ion Ratio Lower Upper

96 100

61 130.8 107.6 161.4

98 62.6 47.6 71.4



Abundance Ion 95.90 (95.60 to 96.60): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

30000

25000

20000

15000

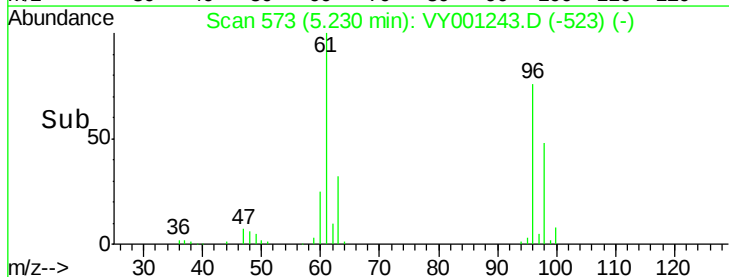
10000

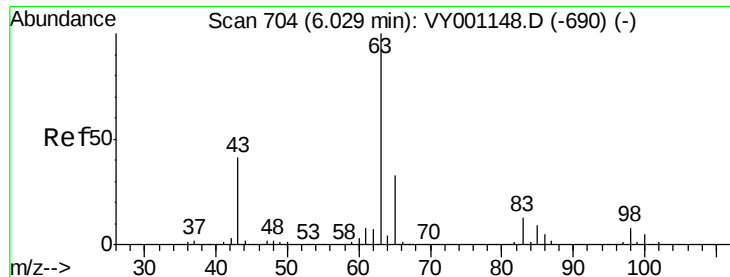
5000

0

5.10 5.20 5.30 5.40

Time-->





#24

1,1-Dichloroethane

Concen: 14.157 ug/l

RT: 6.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

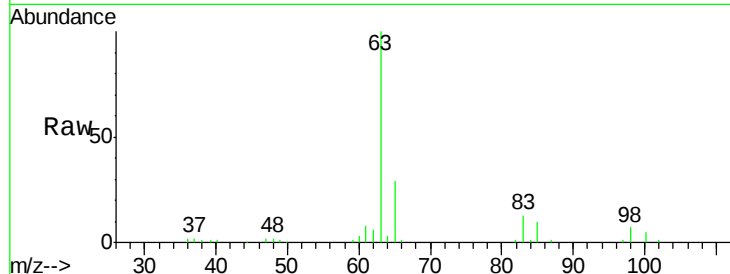
Instrument :

MSVOA_Y

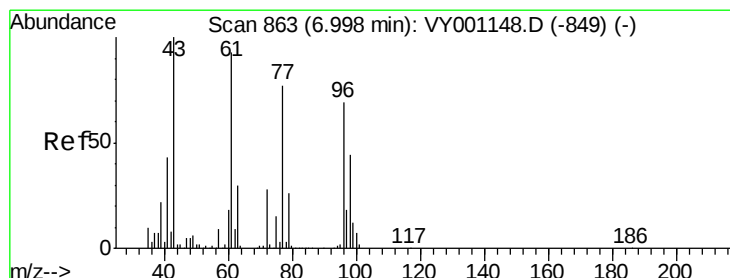
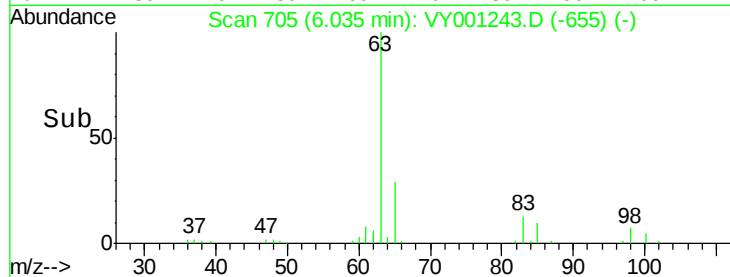
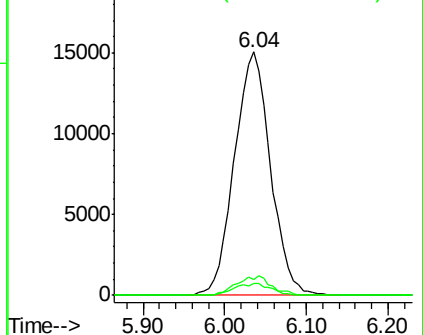
ClientSampleId :

WP022SB457_200113_28-30

Tgt Ion:	63	Resp:	46106
Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.9	11.7
100	4.7	2.4	7.2



Abundance Ion 62.90 (62.60 to 63.60): VY0
Ion 97.90 (97.60 to 98.60): VY0
Ion 99.90 (99.60 to 100.60): VY0



#27

cis-1,2-Dichloroethene

Concen: 444.820 ug/l

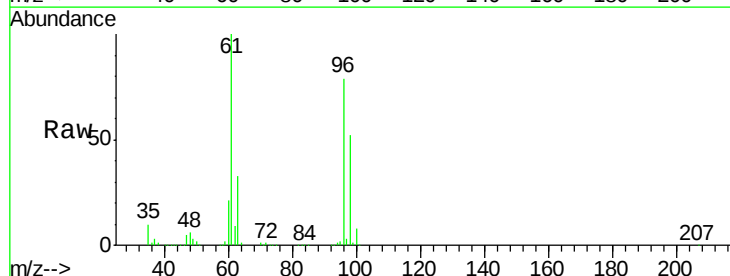
RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

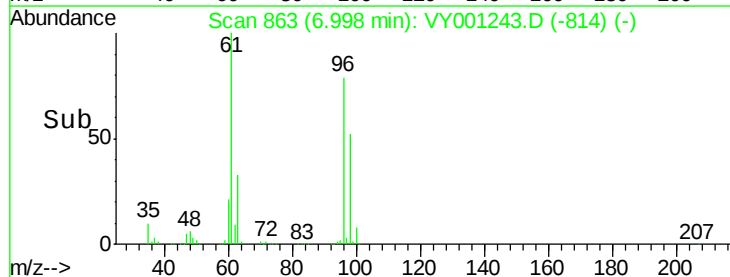
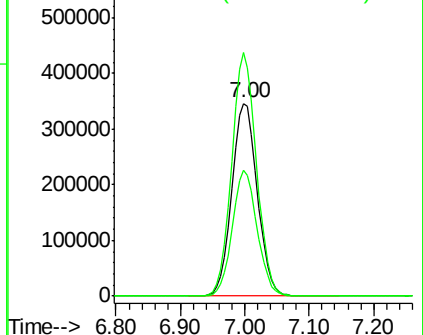
Lab File: VY001243.D

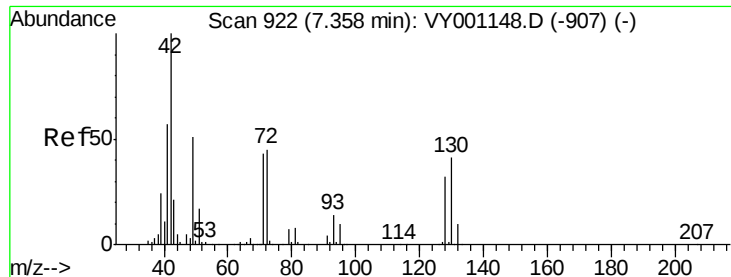
Acq: 16 Jan 2020 01:34

Tgt Ion:	96	Resp:	953781
Ion	Ratio	Lower	Upper
96	100		
61	123.2	0.0	284.0
98	63.8	0.0	130.2



Abundance Ion 95.90 (95.60 to 96.60): VY0
Ion 60.90 (60.60 to 61.60): VY0
Ion 97.90 (97.60 to 98.60): VY0





#29

Tetrahydrofuran

Concen: 1.474 ug/l

RT: 7.37 min Scan# 924

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_28-30

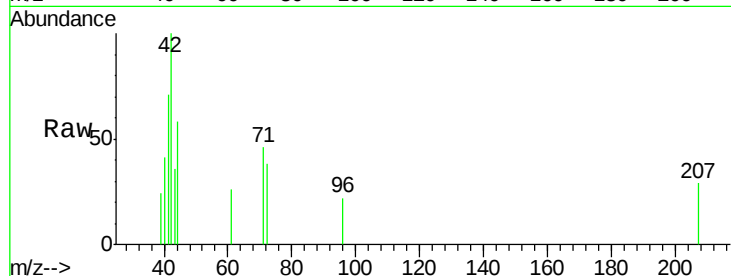
Tgt Ion: 42 Resp: 651

Ion Ratio Lower Upper

42 100

72 31.6 36.9 55.3#

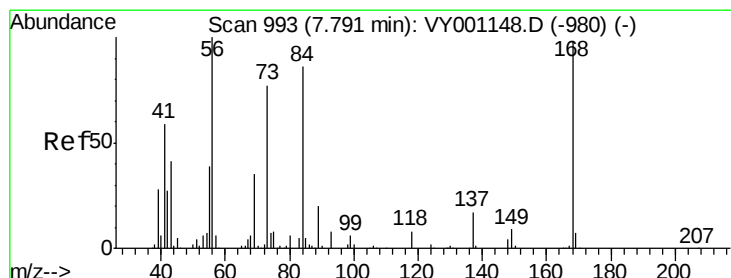
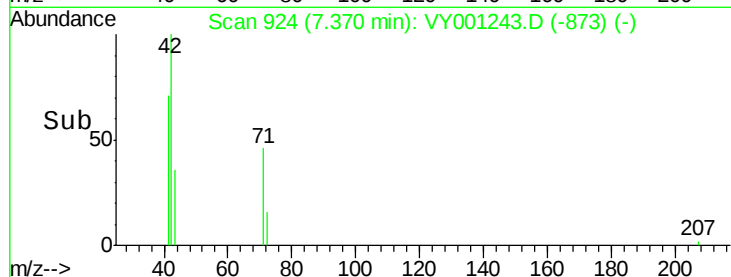
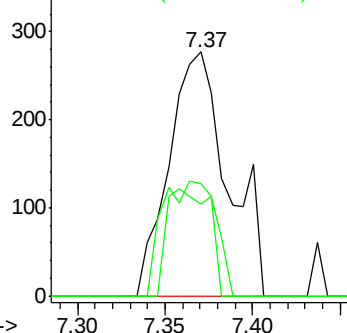
71 42.1 34.0 51.0



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#31

Cyclohexane

Concen: 1.082 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

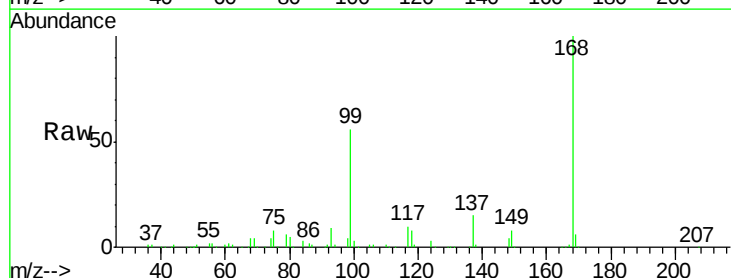
Tgt Ion: 56 Resp: 3732

Ion Ratio Lower Upper

56 100

69 160.3 27.8 41.8#

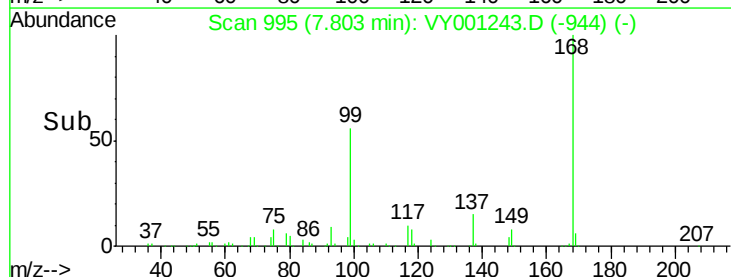
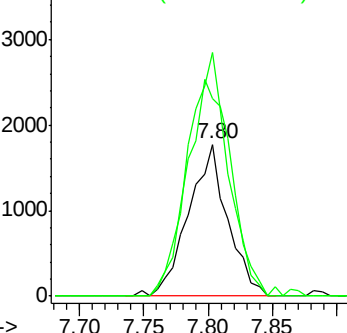
84 129.8 68.9 103.3#

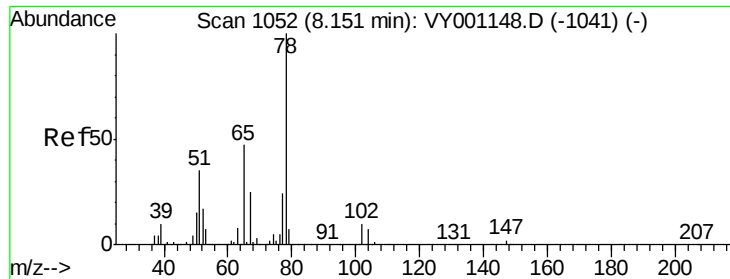


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0

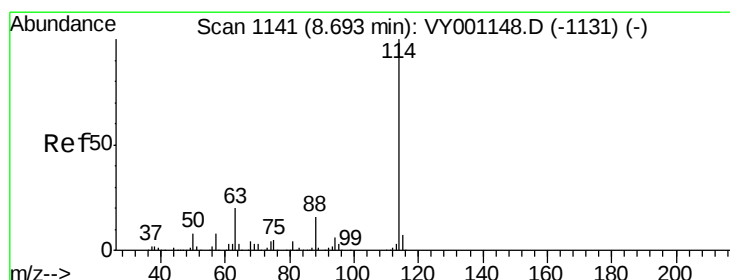
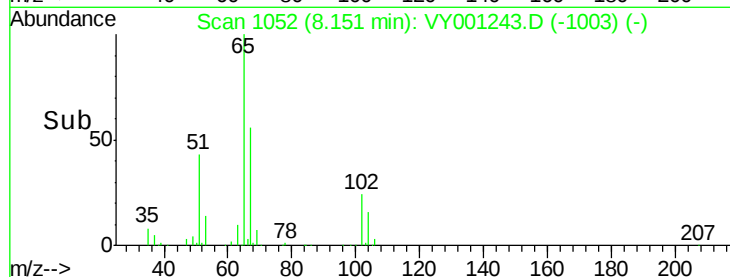
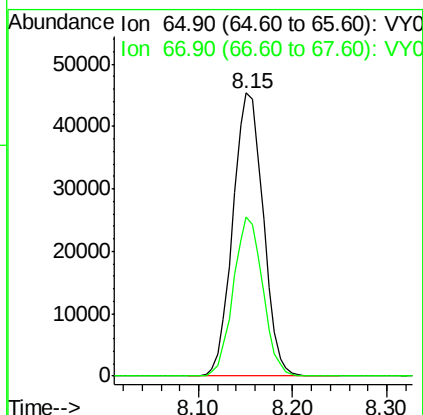
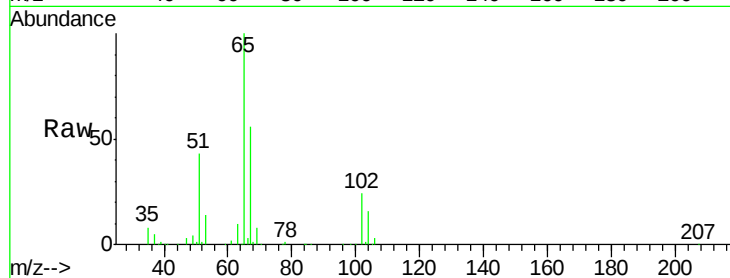




#33
 1,2-Dichloroethane-d4
 Concen: 57.056 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. -0.00 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

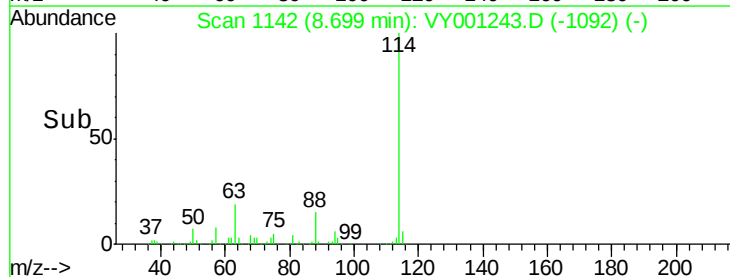
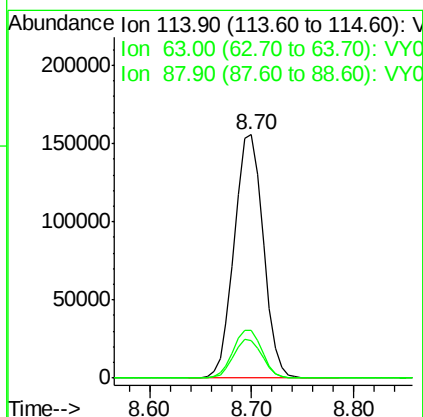
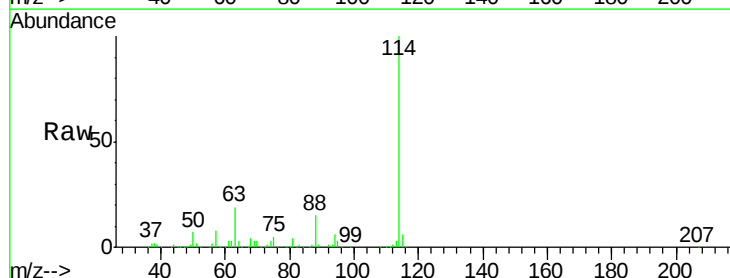
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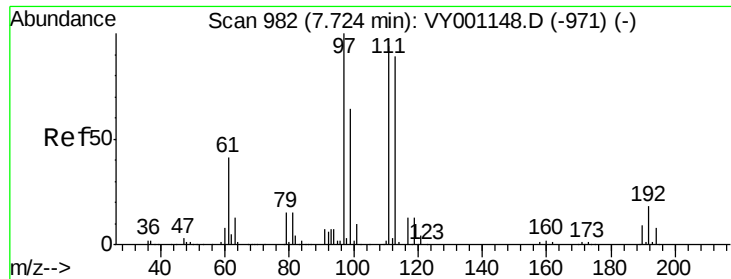
Tgt Ion: 65 Resp: 101730
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.70 min Scan# 1142
 Delta R.T. 0.01 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

Tgt Ion: 114 Resp: 307574
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.8
 88 15.4 0.0 32.4

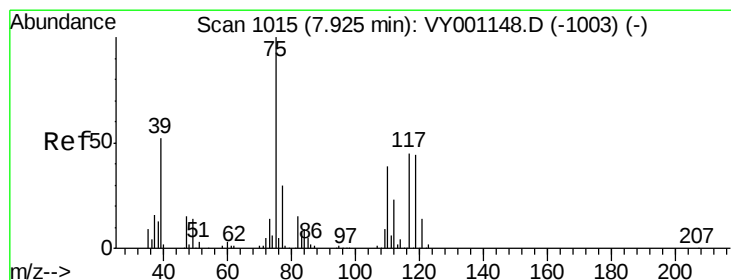
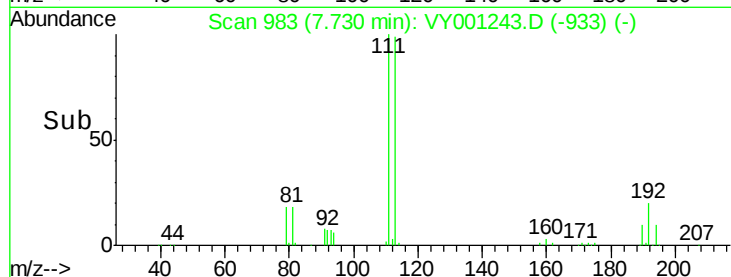
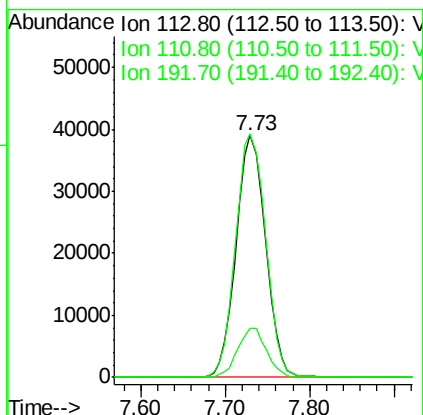
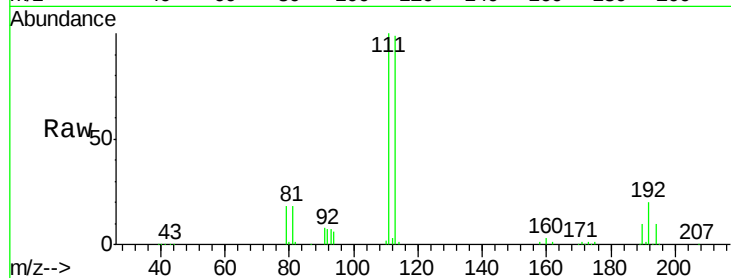




#35
 Dibromofluoromethane
 Concen: 51.175 ug/l
 RT: 7.73 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

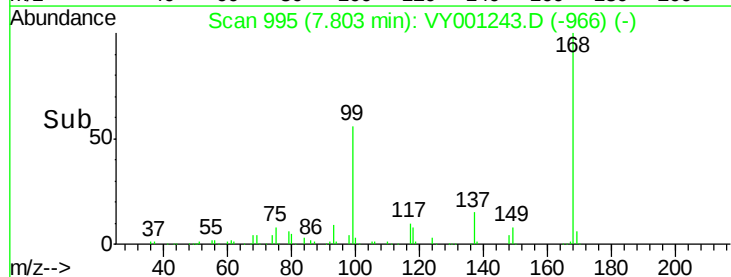
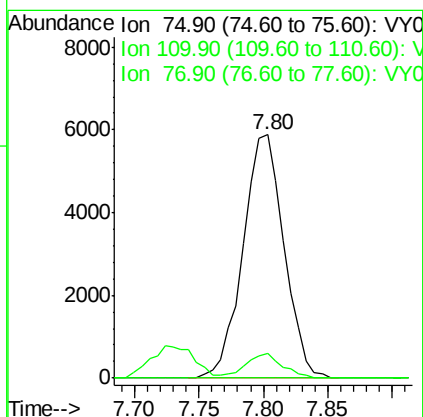
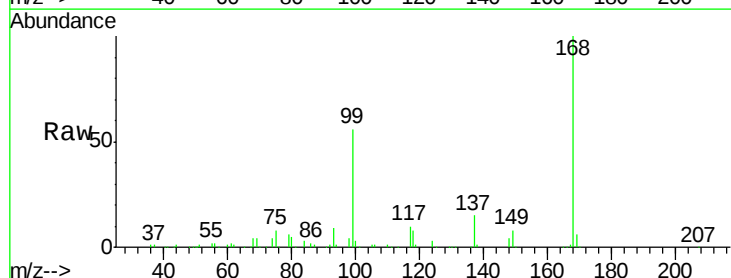
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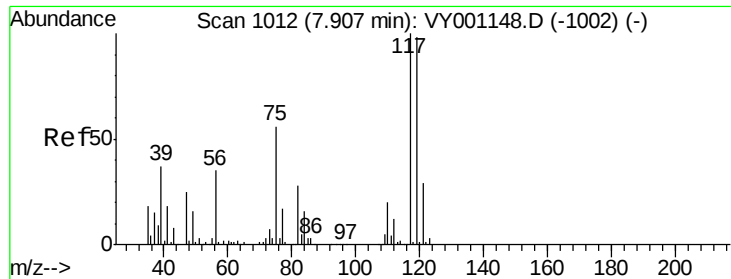
Tgt Ion:113 Resp: 92158
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.9 124.3
 192 19.7 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.627 ug/l
 RT: 7.80 min Scan# 995
 Delta R.T. -0.12 min
 Lab File: VY001243.D
 Acq: 16 Jan 2020 01:34

Tgt Ion: 75 Resp: 12971
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.3 54.8#
 77 0.0 25.1 37.7#

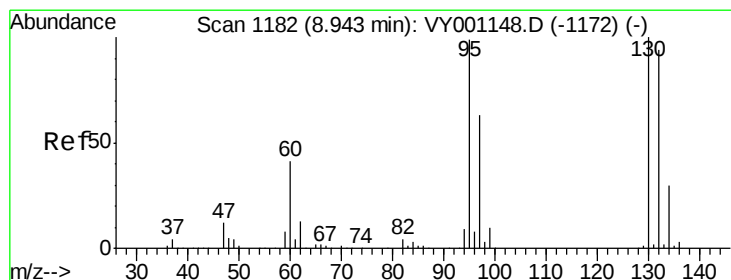
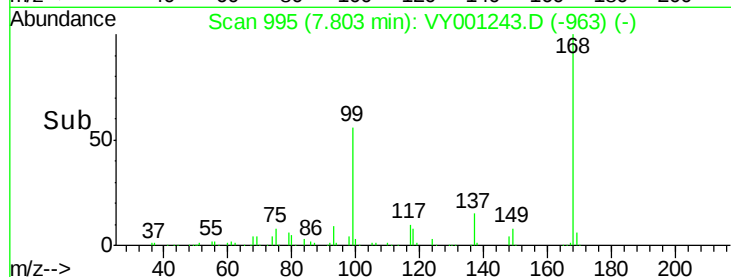
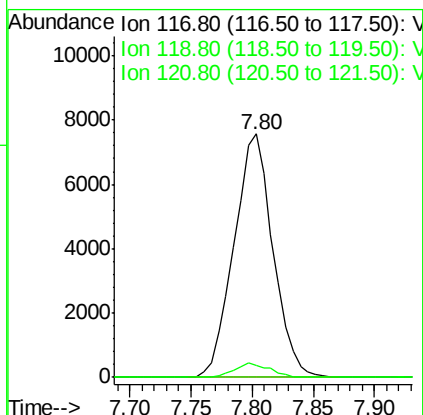
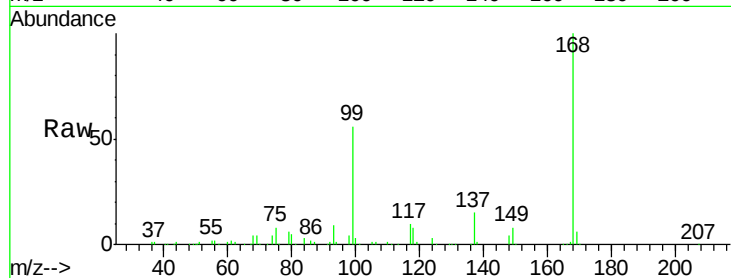




#38
Carbon Tetrachloride
Concen: 6.500 ug/l
RT: 7.80 min Scan# 995
Delta R.T. -0.10 min
Lab File: VY001243.D
Acq: 16 Jan 2020 01:34

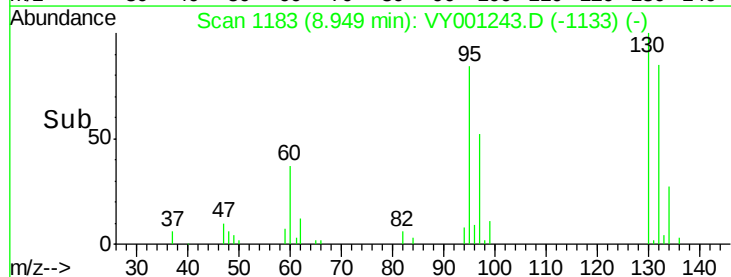
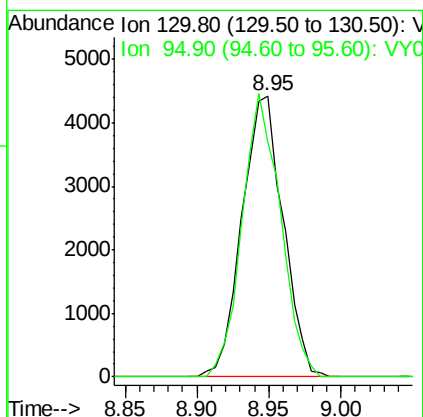
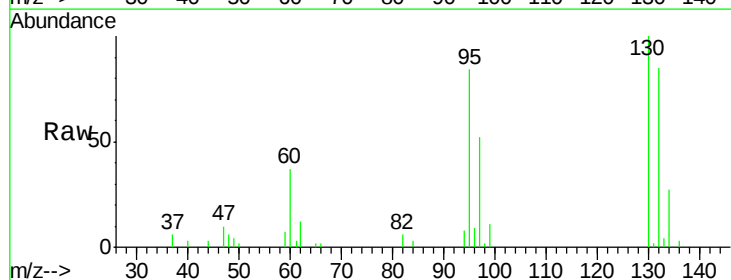
Instrument :
MSVOA_Y
ClientSampleId :
WP022SB457_200113_28-30

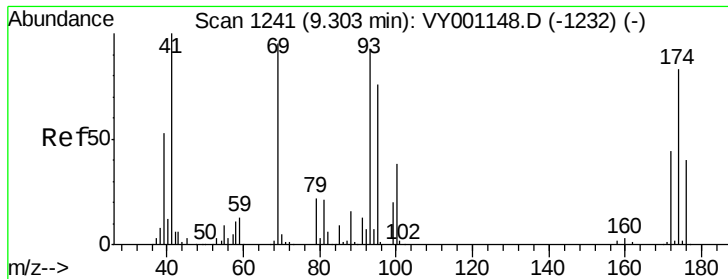
Tgt Ion:117 Resp: 16700
Ion Ratio Lower Upper
117 100
119 5.0 78.3 117.5#
121 0.0 23.5 35.3#



#44
Trichloroethene
Concen: 4.100 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. 0.01 min
Lab File: VY001243.D
Acq: 16 Jan 2020 01:34

Tgt Ion:130 Resp: 8742
Ion Ratio Lower Upper
130 100
95 83.6 0.0 197.6





#49

1,4-Dioxane

Concen: 26.111 ug/l

RT: 9.31 min Scan# 1242

Delta R.T. 0.01 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_28-30

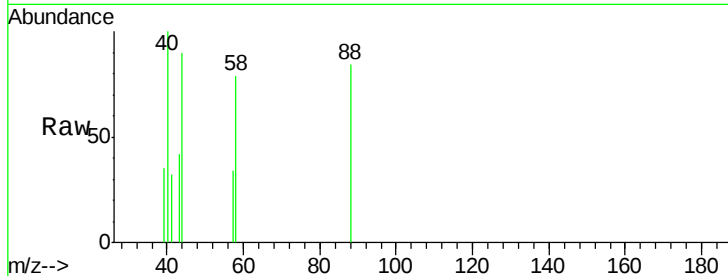
Tgt Ion: 88 Resp: 351

Ion Ratio Lower Upper

88 100

43 0.0 22.4 33.6#

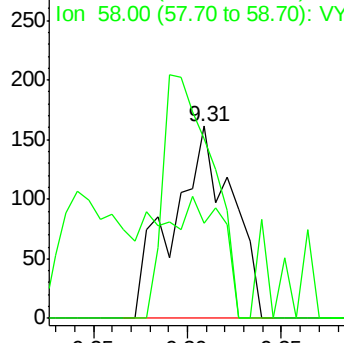
58 104.8 58.0 87.0#



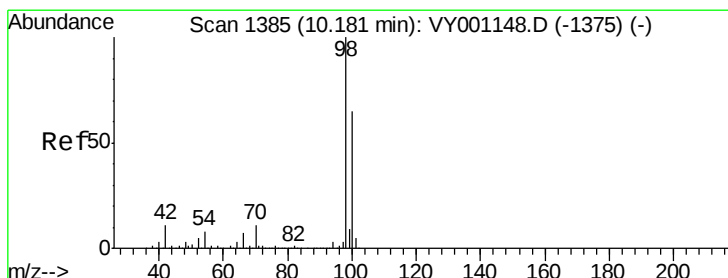
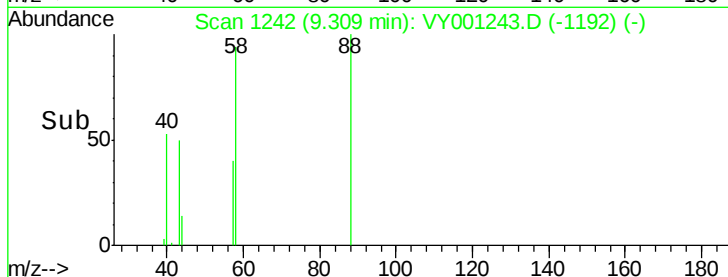
Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#50

Toluene-d8

Concen: 51.913 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001243.D

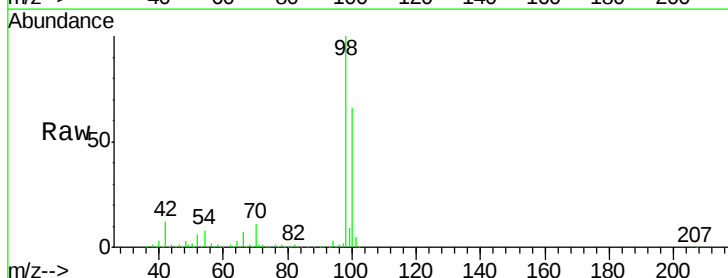
Acq: 16 Jan 2020 01:34

Tgt Ion: 98 Resp: 360221

Ion Ratio Lower Upper

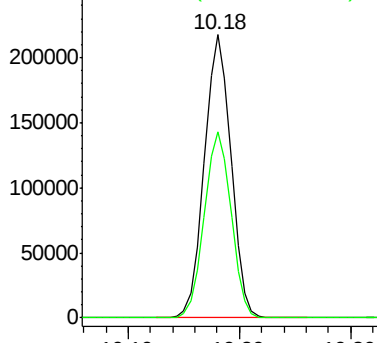
98 100

100 66.1 53.1 79.7

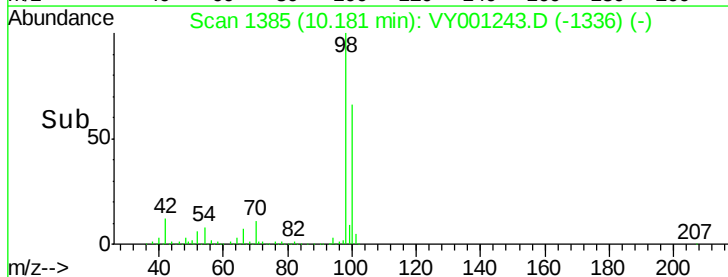


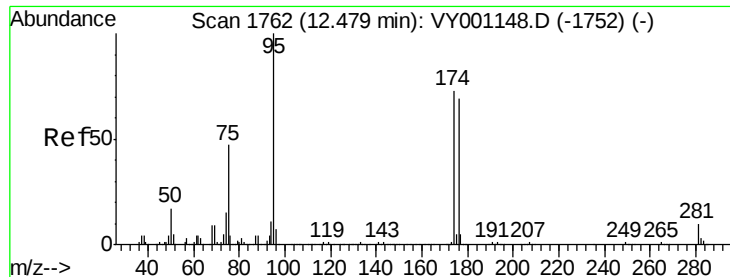
Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



Time-->

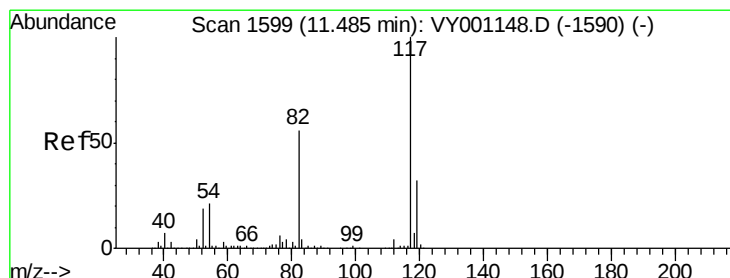
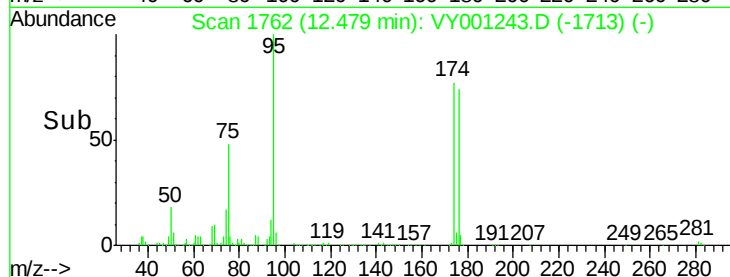
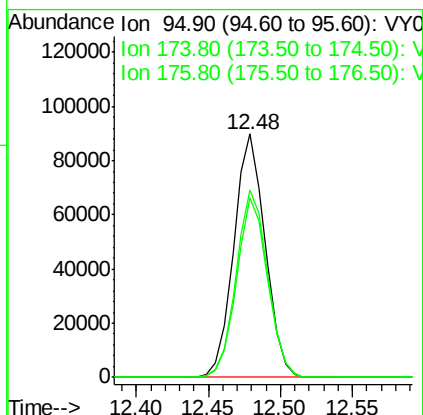
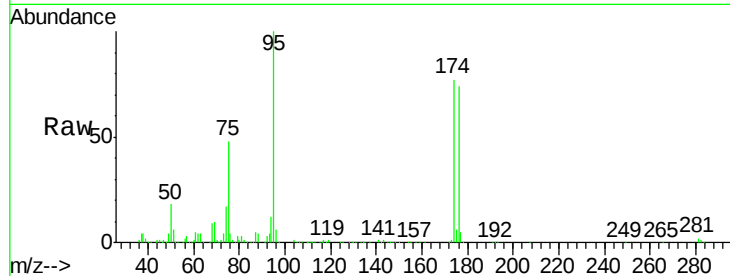




#62
4-Bromofluorobenzene
Concen: 47.939 ug/l
RT: 12.48 min Scan# 1762
Delta R.T. -0.00 min
Lab File: VY001243.D
Acq: 16 Jan 2020 01:34

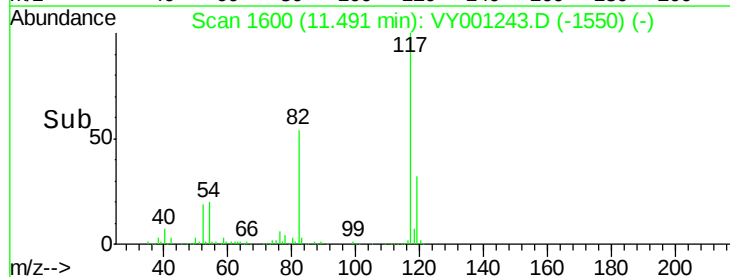
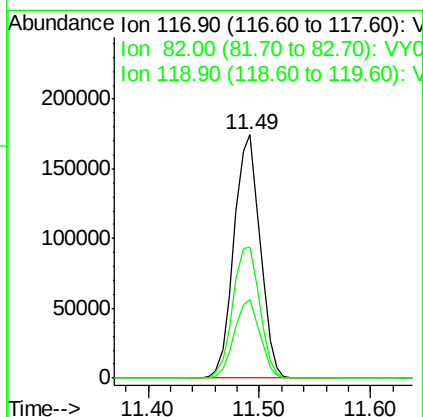
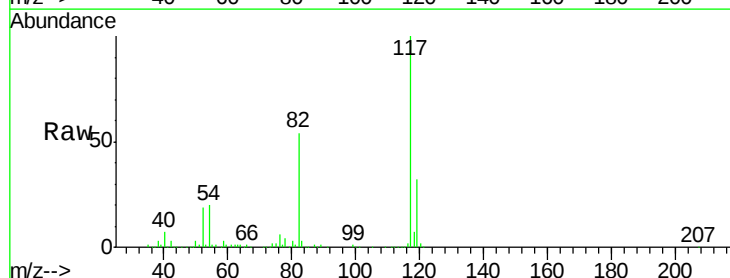
Instrument :
MSVOA_Y
ClientSampleId :
WP022SB457_200113_28-30

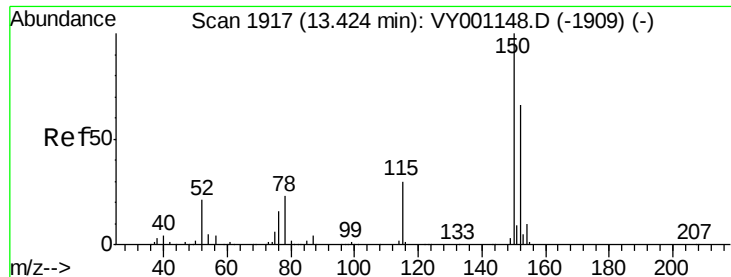
Tgt Ion: 95 Resp: 135995
Ion Ratio Lower Upper
95 100
174 77.2 0.0 143.2
176 73.0 0.0 136.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VY001243.D
Acq: 16 Jan 2020 01:34

Tgt Ion: 117 Resp: 283528
Ion Ratio Lower Upper
117 100
82 53.7 44.9 67.3
119 32.2 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_28-30

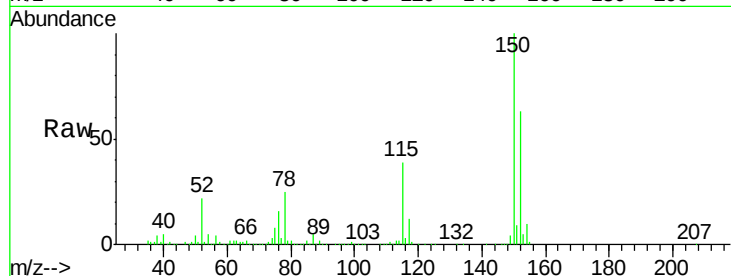
Tgt Ion:152 Resp: 135219

Ion Ratio Lower Upper

152 100

115 59.8 30.9 92.5

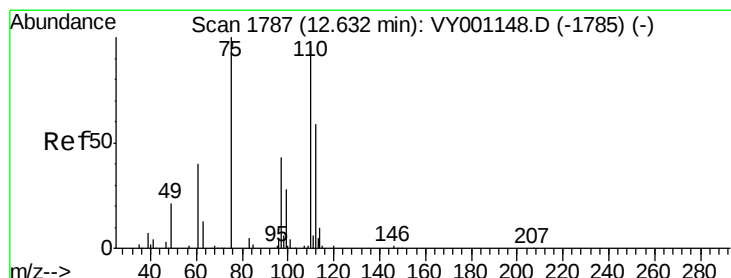
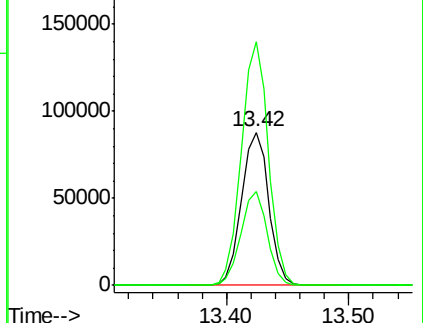
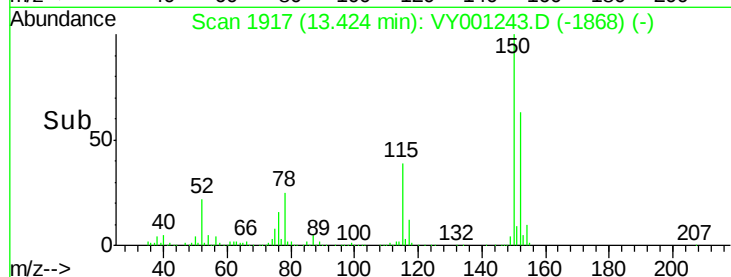
150 158.0 0.0 346.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 45.786 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY001243.D

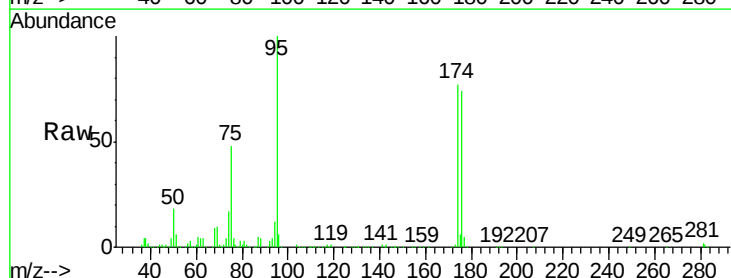
Acq: 16 Jan 2020 01:34

Tgt Ion: 75 Resp: 66277

Ion Ratio Lower Upper

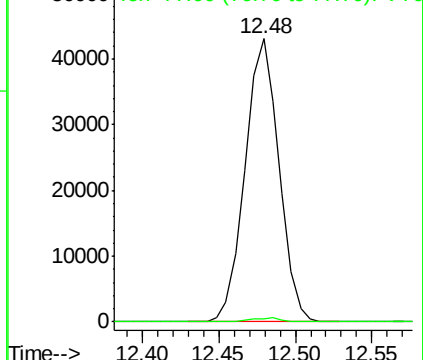
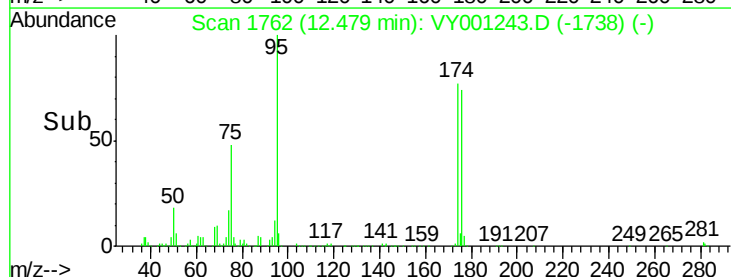
75 100

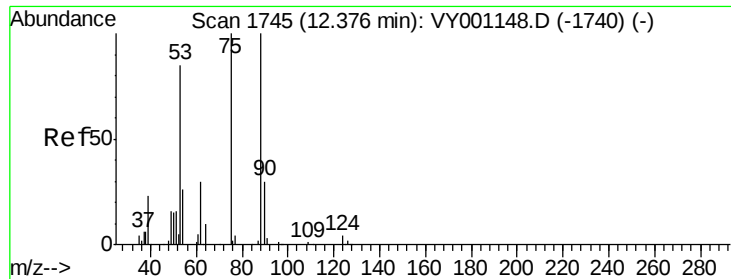
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 77.643 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001243.D

Acq: 16 Jan 2020 01:34

Instrument :

MSVOA_Y

ClientSampleId :

WP022SB457_200113_28-30

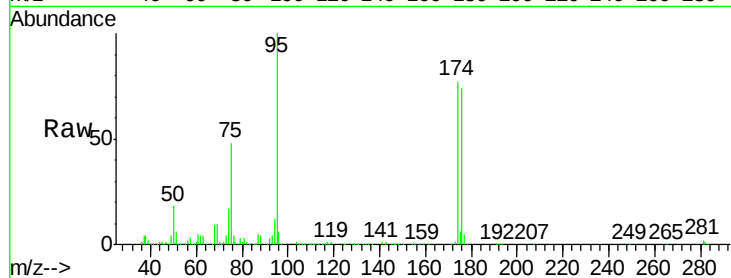
Tgt Ion: 75 Resp: 66277

Ion Ratio Lower Upper

75 100

53 0.1 69.4 104.2#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

