

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY092019\
 Data File : VY000116.D
 Acq On : 20 Sep 2019 18:24
 Operator : SY/MD
 Sample : K4938-01
 Misc : 5.05g/5.00ml/MSVOA Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 20 23:49:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y091719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 05:38:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.79	168	82677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	177780	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	150334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	52894	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	55432	58.28	ug/l	0.00
Spiked Amount						
			Recovery	=	116.56%	
35) Dibromofluoromethane	7.72	113	51119	47.49	ug/l	0.00
Spiked Amount						
			Recovery	=	94.98%	
50) Toluene-d8	10.18	98	215740	51.03	ug/l	0.00
Spiked Amount						
			Recovery	=	102.06%	
62) 4-Bromofluorobenzene	12.48	95	66273	42.22	ug/l	0.00
Spiked Amount						
			Recovery	=	84.44%	

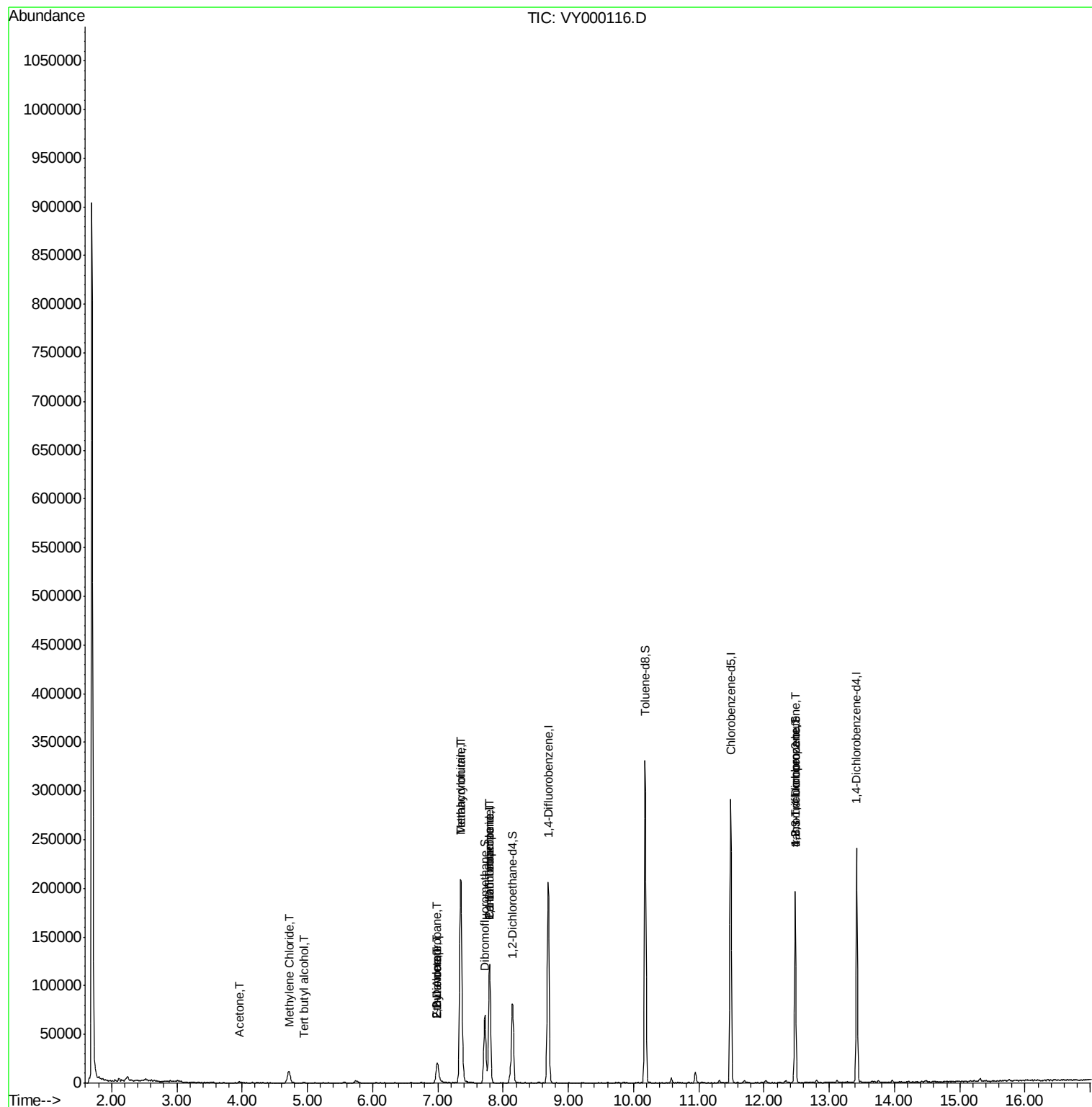
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.12	85	22	Below Cal	#	42
3) Chloromethane	2.11	50	1713	Below Cal		92
5) Bromomethane	2.66	94	27	Below Cal	#	6
11) Tert butyl alcohol	4.96	59	285	2.527	ug/l	98
13) Acrolein	3.72	56	20	Below Cal	#	13
16) Acetone	3.96	43	1626	7.342	ug/l #	58
17) Carbon Disulfide	4.18	76	87	Below Cal	#	77
20) Methylene Chloride	4.71	84	9120	8.754	ug/l #	78
25) 2-Butanone	6.99	43	990	2.468	ug/l #	44
26) 2,2-Dichloropropane	6.98	77	1572	1.010	ug/l #	50
29) Tetrahydrofuran	7.35	42	164593	683.480	ug/l	100
31) Cyclohexane	7.79	56	2119	Below Cal	#	21
36) 1,1-Dichloropropene	7.79	75	9026	6.790	ug/l #	43
37) Ethyl Acetate	6.99	43	990	1.117	ug/l #	14
38) Carbon Tetrachloride	7.79	117	8781	6.999	ug/l #	17
41) Methacrylonitrile	7.35	41	84226	157.544	ug/l #	38
76) 1,2,3-Trichloropropane	12.48	75	33179	44.583	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.48	75	33179	85.743	ug/l #	19

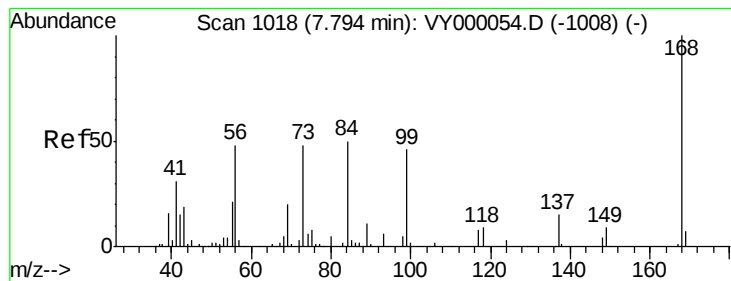
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

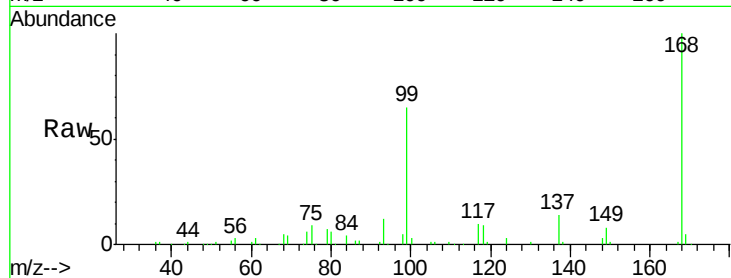
ClientSampled :

Tot Ion:168 Resp: 82677

Ion Ratio Lower Upper

168 100

99 64.5 44.2 66.2



Abundance Ion 167.90 (167.60 to 168.60): VY000054.D (-1008) (-)

Ion 98.90 (98.60 to 99.60): VY000054.D (-1008) (-)

7.79

40000

30000

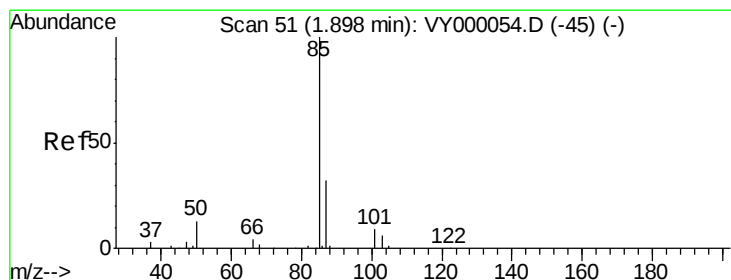
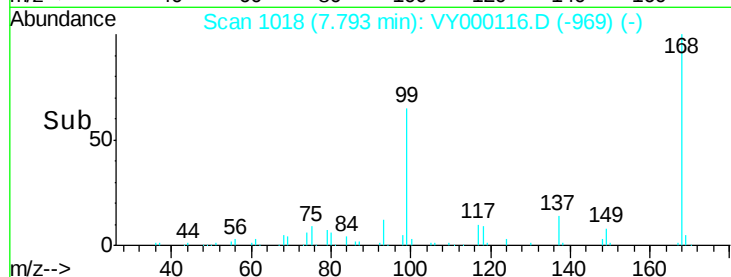
20000

10000

0

Time-->

7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.12 min Scan# 88

Delta R.T. 0.23 min

Lab File: VY000116.D

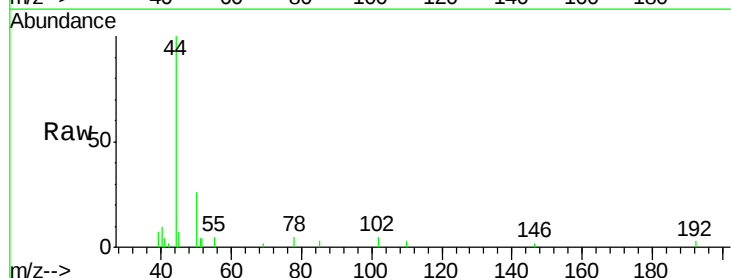
Acq: 20 Sep 2019 18:24

Tgt Ion: 85 Resp: 22

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VY000054.D (-45) (-)

Ion 86.90 (86.60 to 87.60): VY000054.D (-45) (-)

2.12

60

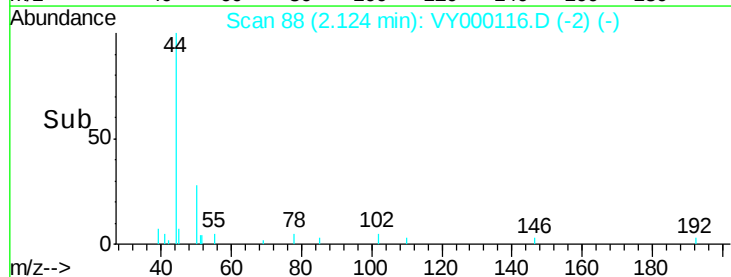
40

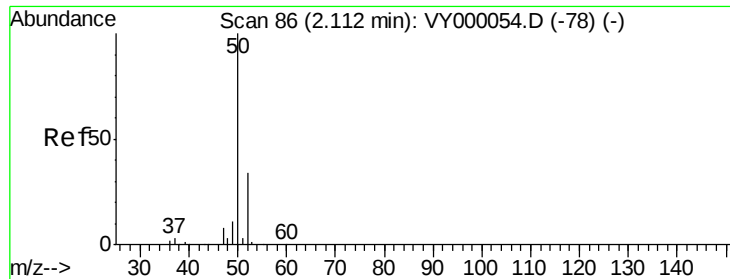
20

0

Time-->

2.10 2.11 2.12 2.13 2.14





#3

Chloromethane

Concen: Below Cal

RT: 2.11 min Scan# 86

Delta R.T. 0.00 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

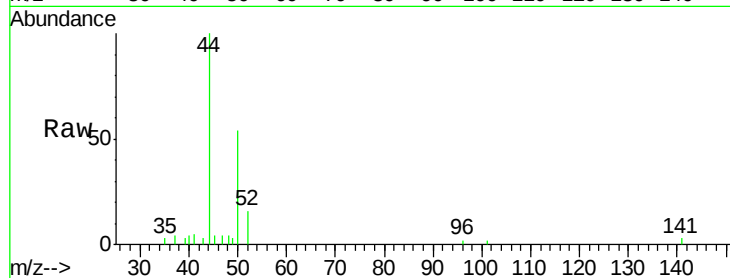
ClientSampleId :

Tot Ion: 50 Resp: 1713

Ion Ratio Lower Upper

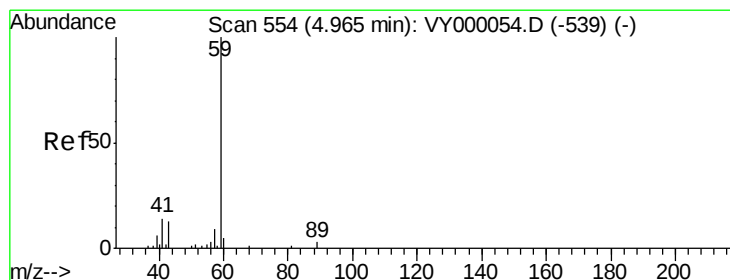
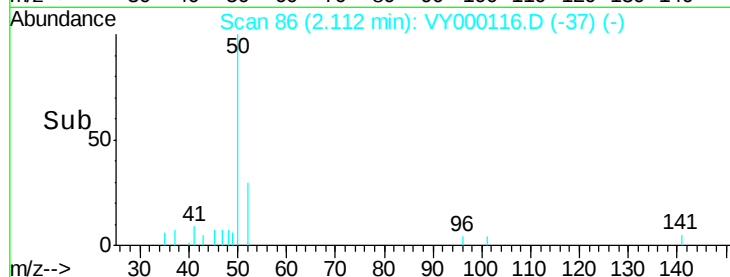
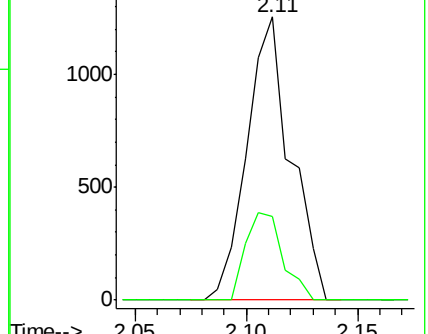
50 100

52 29.7 27.3 40.9



Abundance Ion 49.90 (49.60 to 50.60): VY0

Ion 51.90 (51.60 to 52.60): VY0



#11

Tert butyl alcohol

Concen: 2.527 ug/l

RT: 4.96 min Scan# 553

Delta R.T. -0.01 min

Lab File: VY000116.D

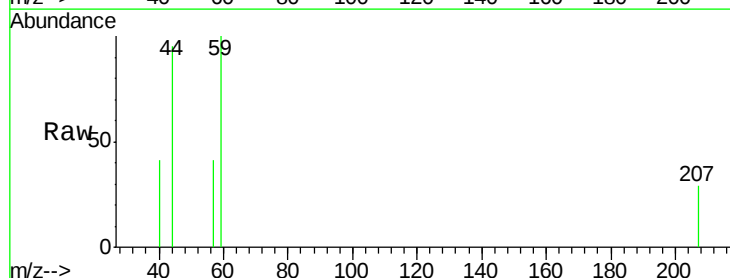
Acq: 20 Sep 2019 18:24

Tgt Ion: 59 Resp: 285

Ion Ratio Lower Upper

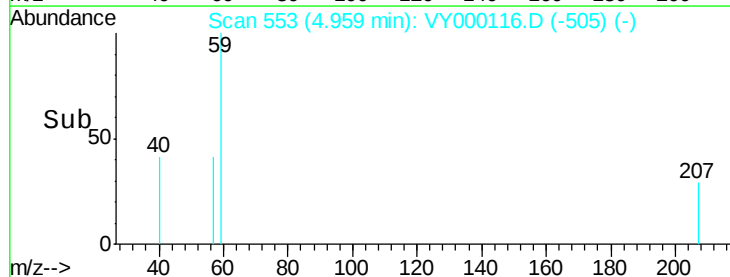
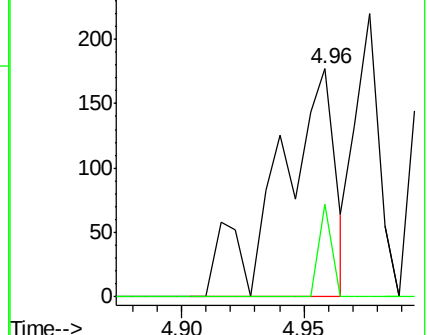
59 100

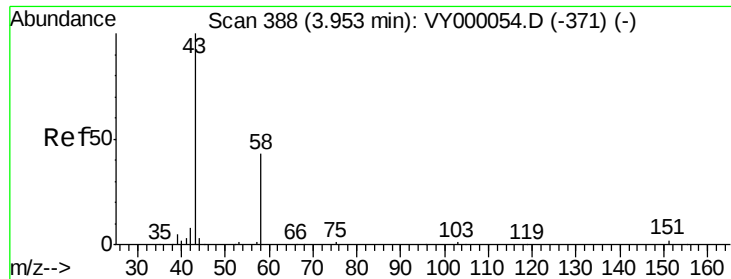
57 9.1 8.0 12.0



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 7.342 ug/l

RT: 3.96 min Scan# 389

Delta R.T. 0.01 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

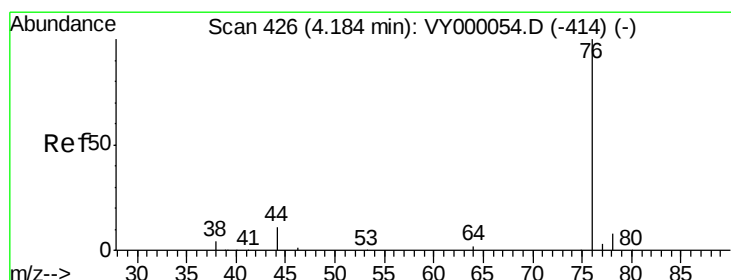
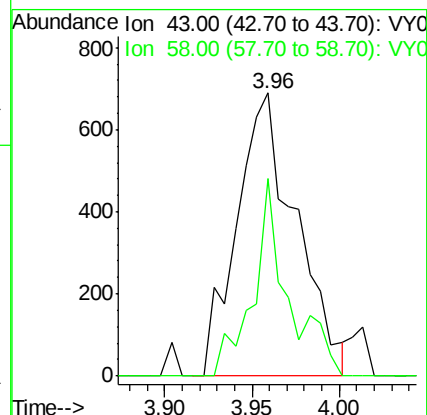
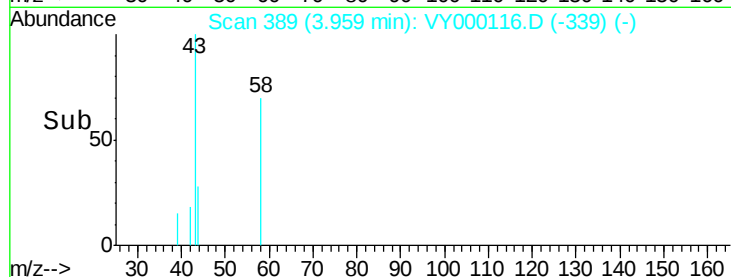
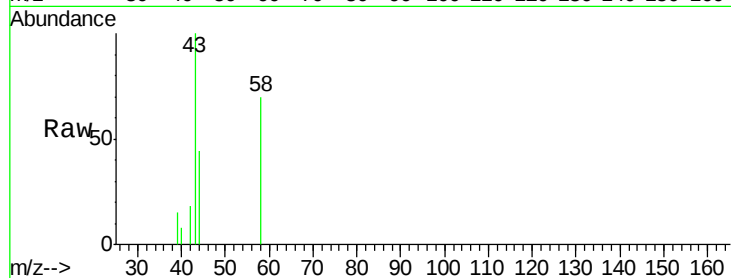
ClientSampled :

Tot Ion: 43 Resp: 1626

Ion Ratio Lower Upper

43 100

58 70.0 34.5 51.7#



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.18 min Scan# 426

Delta R.T. 0.00 min

Lab File: VY000116.D

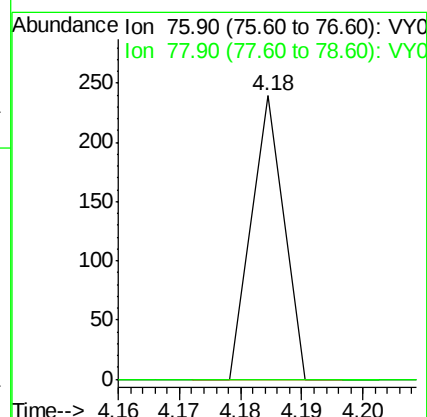
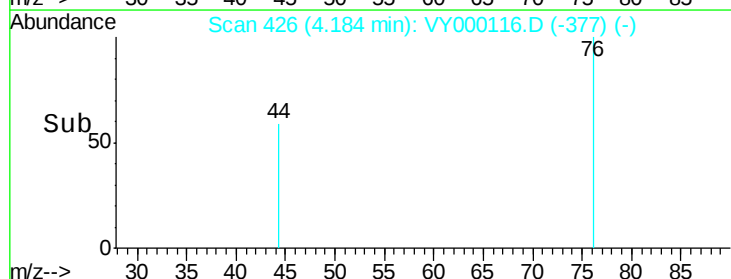
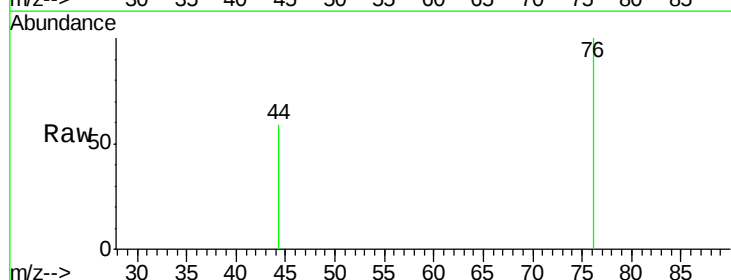
Acq: 20 Sep 2019 18:24

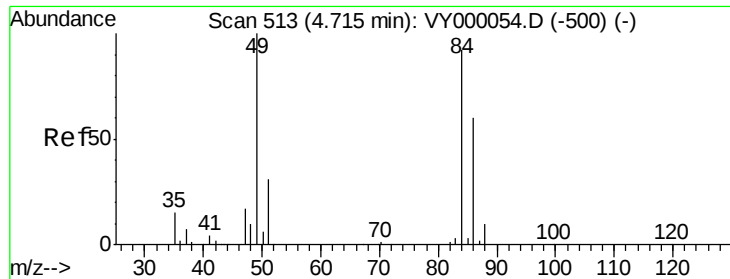
Tgt Ion: 76 Resp: 87

Ion Ratio Lower Upper

76 100

78 0.0 6.6 9.8#

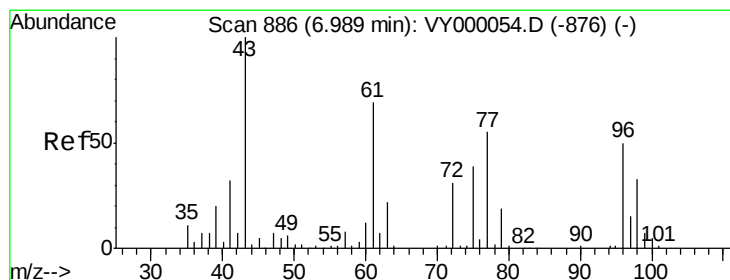
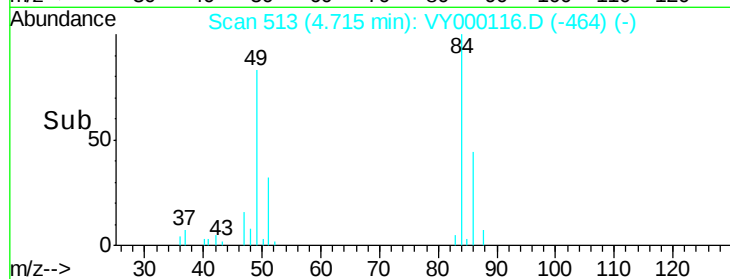
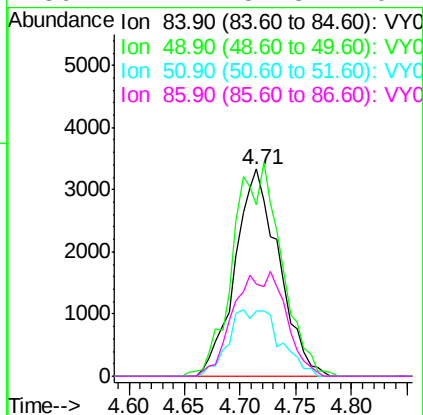
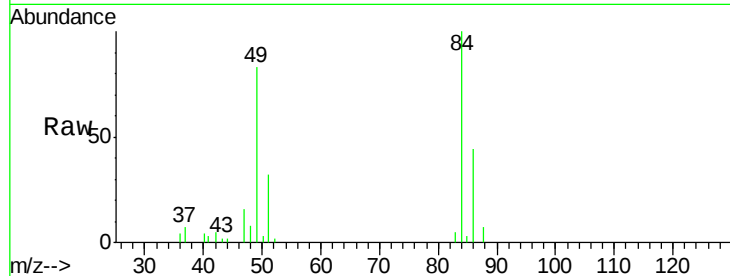




#20
Methvlene Chloride
Concen: 8.754 ug/l
RT: 4.71 min Scan# 513
Delta R.T. -0.00 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

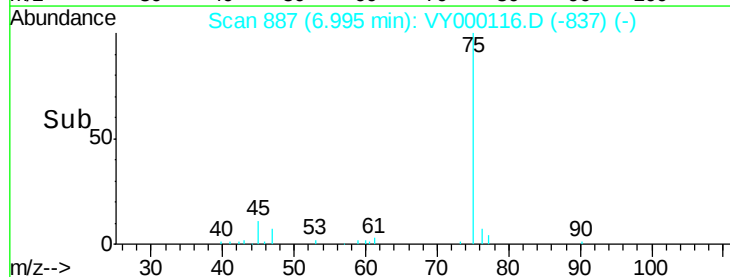
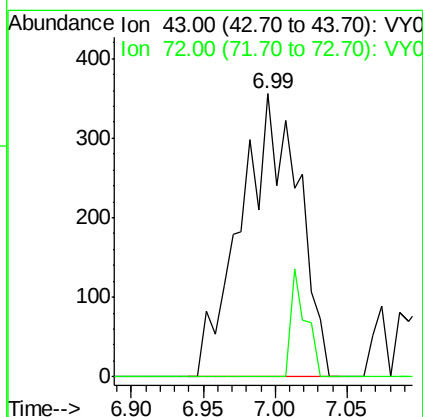
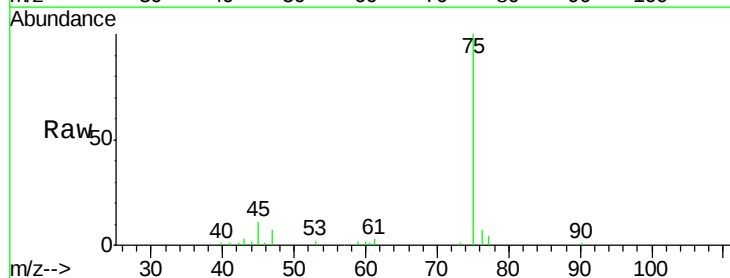
Instrument :
MSVOA_Y
ClientSampled :

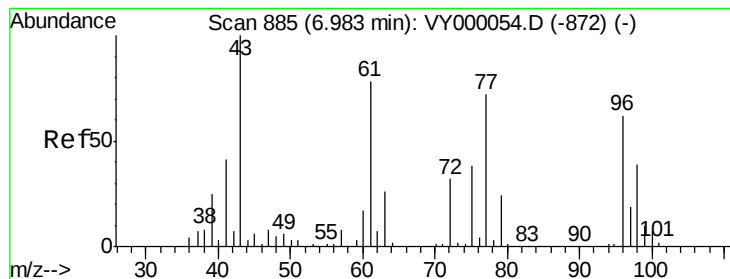
Tot Ion:	84	Resp:	9120
Ion	Ratio	Lower	Upper
84	100		
49	82.8	87.4	131.0#
51	31.5	27.2	40.8
86	44.4	52.8	79.2#



#25
2-Butanone
Concen: 2.468 ug/l
RT: 6.99 min Scan# 887
Delta R.T. 0.01 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

Tgt Ion:	43	Resp:	990
Ion	Ratio	Lower	Upper
43	100		
72	0.0	24.7	37.1#





#26

2,2-Dichloropropane

Concen: 1.010 ug/l

RT: 6.98 min Scan# 885

Delta R.T. -0.00 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

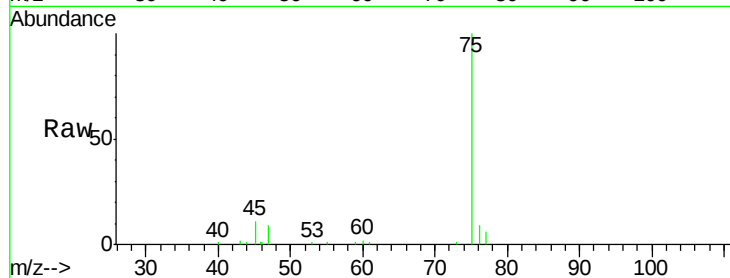
ClientSampled :

Tot Ion: 77 Resp: 1572

Ion Ratio Lower Upper

77 100

97 0.0 12.5 37.5#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0

6.98

800

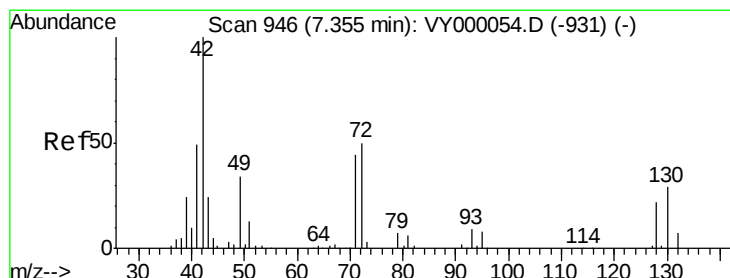
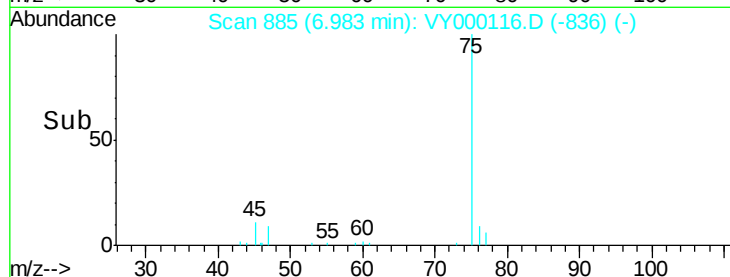
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 683.480 ug/l

RT: 7.35 min Scan# 945

Delta R.T. -0.01 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

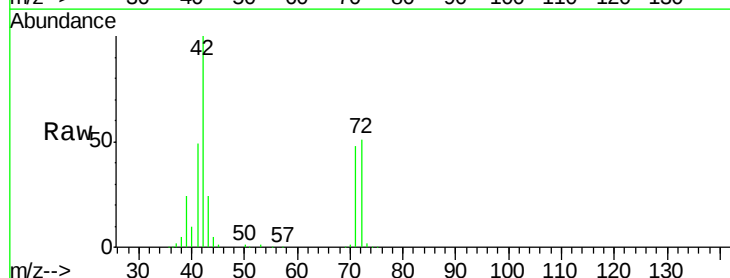
Tgt Ion: 42 Resp: 164593

Ion Ratio Lower Upper

42 100

72 52.8 41.8 62.6

71 48.3 38.6 58.0



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

80000

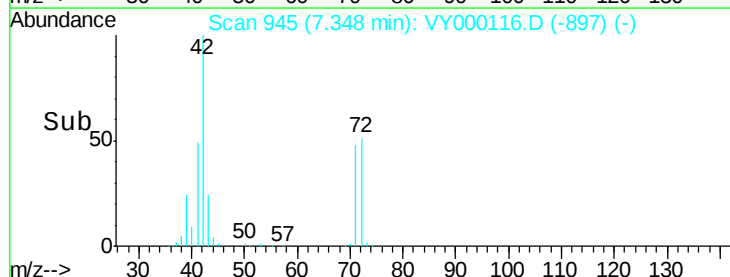
60000

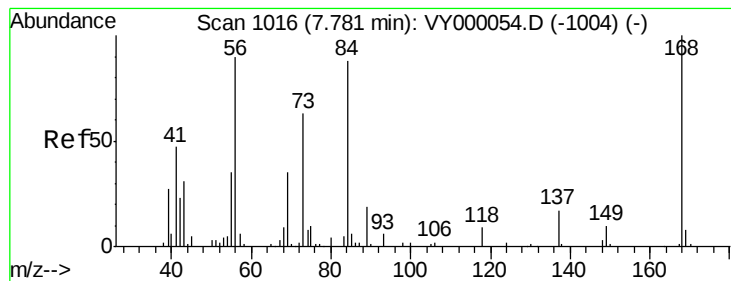
40000

20000

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 7.79 min Scan# 1018

Delta R.T. 0.01 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

ClientSampleId :

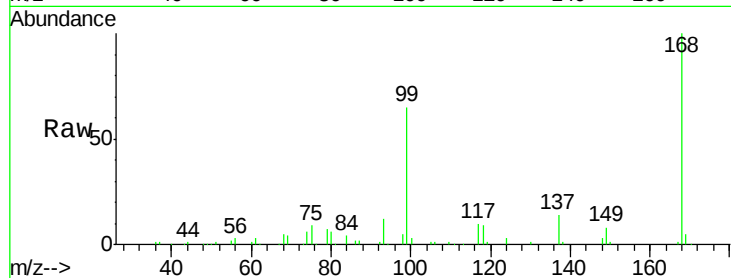
Tot Ion: 56 Resp: 2119

Ion Ratio Lower Upper

56 100

69 156.3 30.9 46.3#

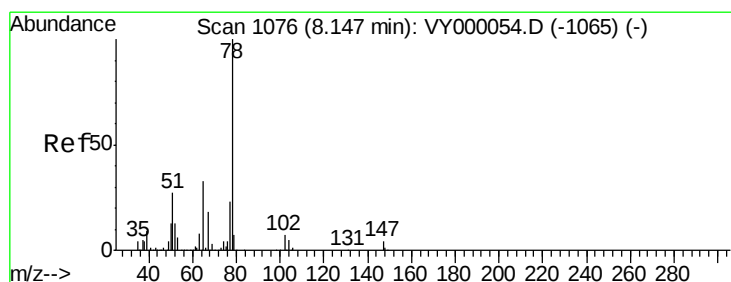
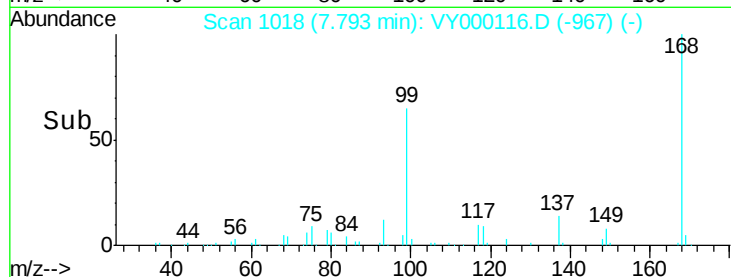
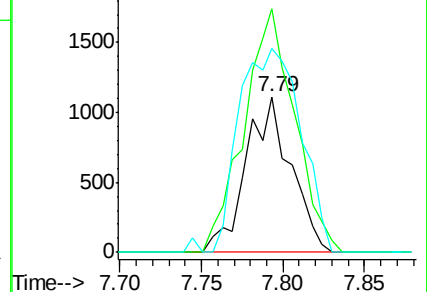
84 131.2 78.5 117.7#



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: 58.275 ug/l

RT: 8.15 min Scan# 1076

Delta R.T. -0.00 min

Lab File: VY000116.D

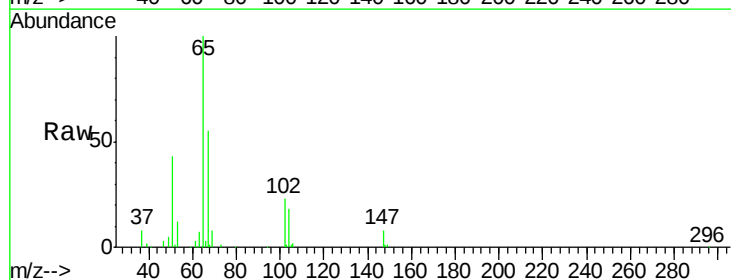
Acq: 20 Sep 2019 18:24

Tgt Ion: 65 Resp: 55432

Ion Ratio Lower Upper

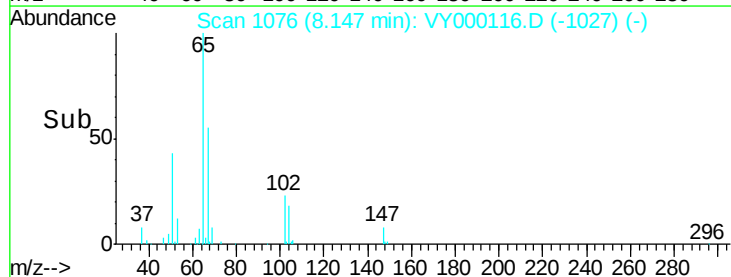
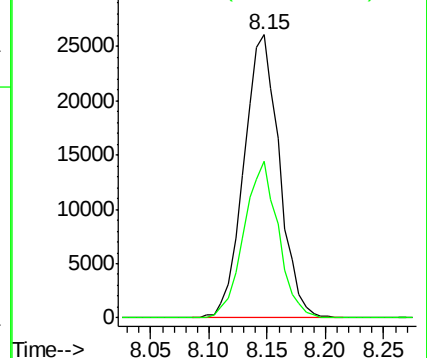
65 100

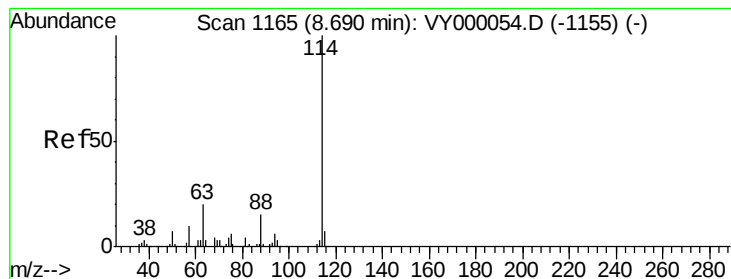
67 53.8 0.0 111.0



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: 8.69 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

ClientSampleId :

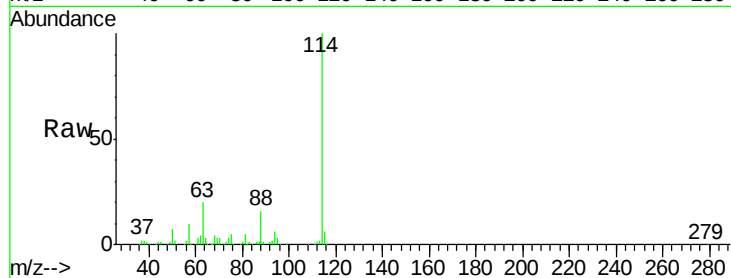
Tot Ion:114 Resp: 177780

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.4

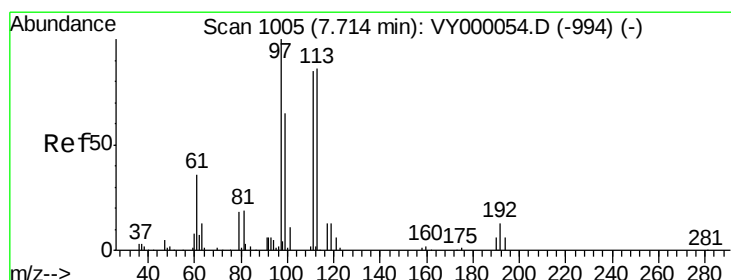
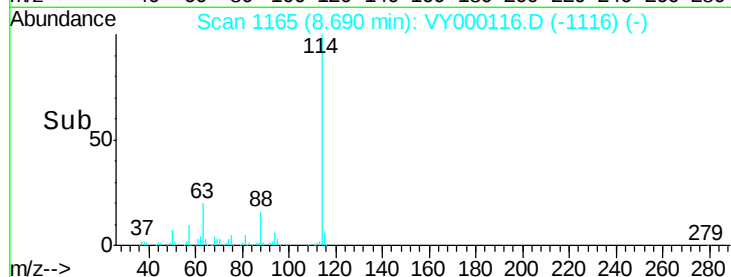
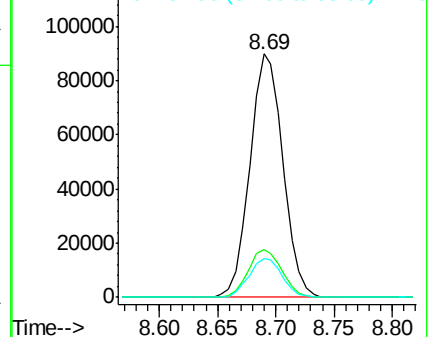
88 16.0 0.0 30.2



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: 47.490 ug/l

RT: 7.72 min Scan# 1006

Delta R.T. 0.01 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

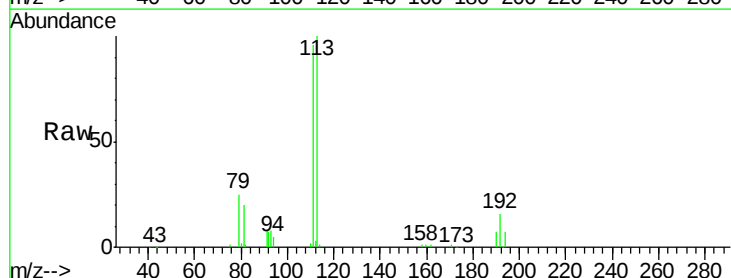
Tgt Ion:113 Resp: 51119

Ion Ratio Lower Upper

113 100

111 101.1 81.7 122.5

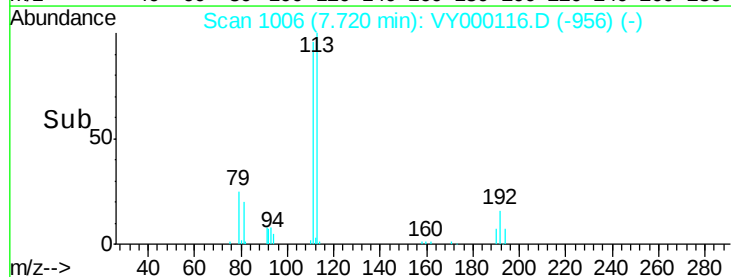
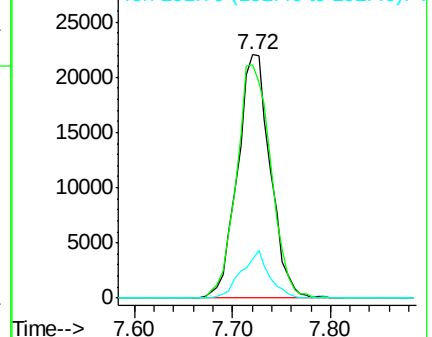
192 16.5 13.4 20.2

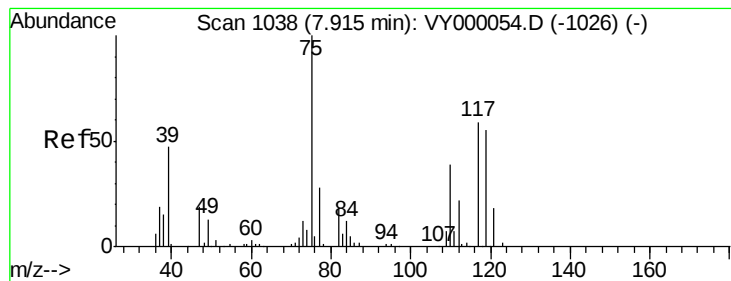


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 6.790 ug/l

RT: 7.79 min Scan# 1018

Delta R.T. -0.12 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

Instrument :

MSVOA_Y

ClientSampleId :

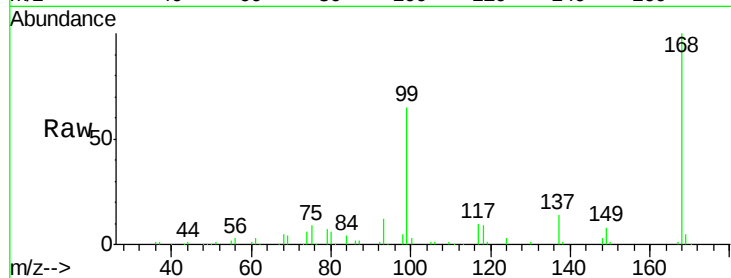
Tot Ion: 75 Resp: 9026

Ion Ratio Lower Upper

75 100

110 3.9 19.6 58.7#

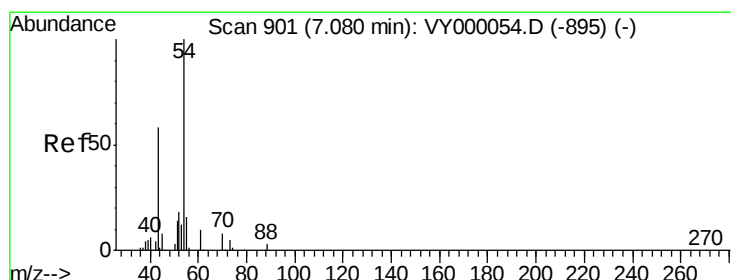
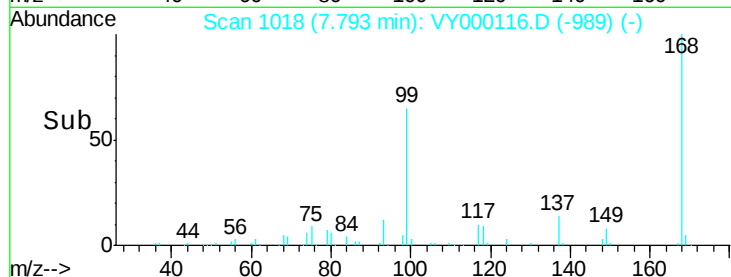
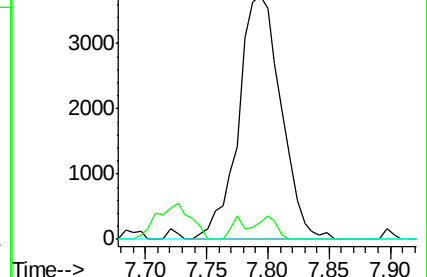
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): VY0

Ion 76.90 (76.60 to 77.60): VY0



#37

Ethyl Acetate

Concen: 1.117 ug/l

RT: 6.99 min Scan# 887

Delta R.T. -0.09 min

Lab File: VY000116.D

Acq: 20 Sep 2019 18:24

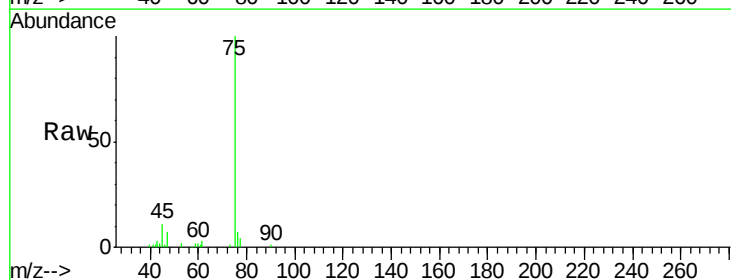
Tgt Ion: 43 Resp: 990

Ion Ratio Lower Upper

43 100

61 72.9 14.1 21.1#

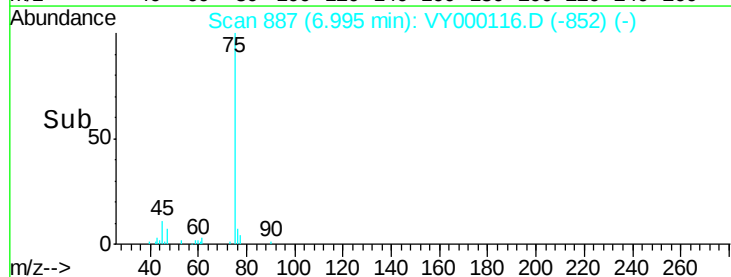
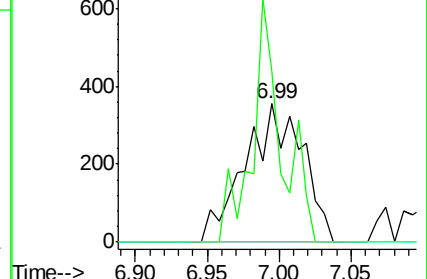
70 0.0 10.6 15.8#

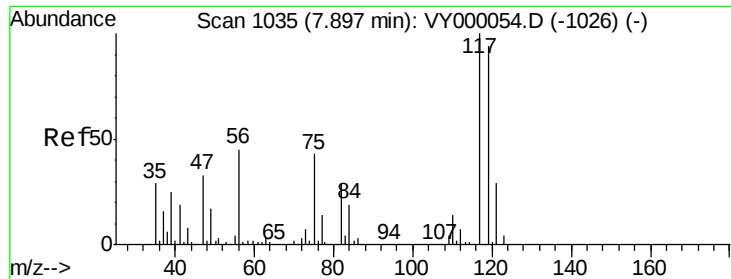


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0

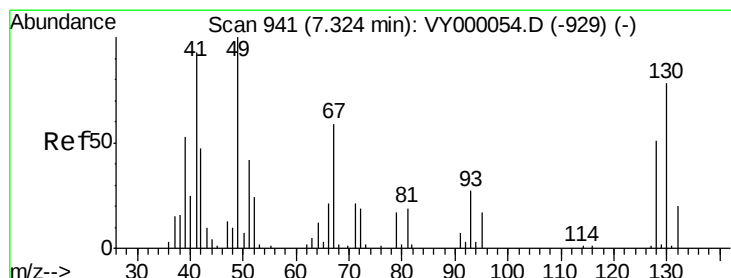
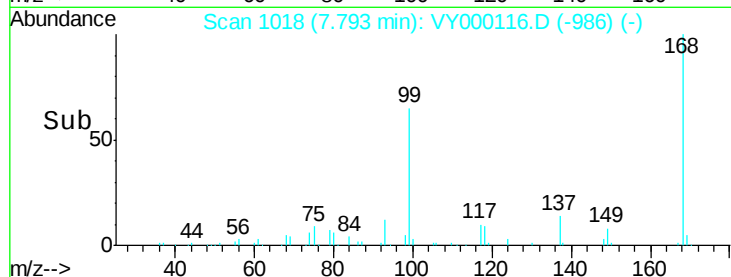
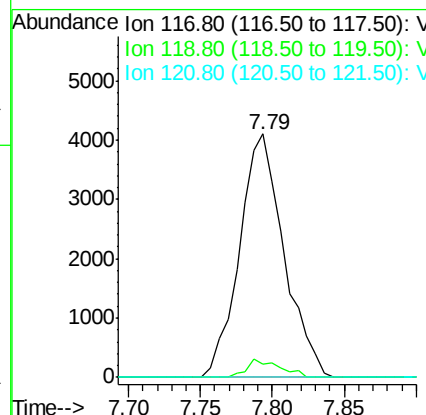
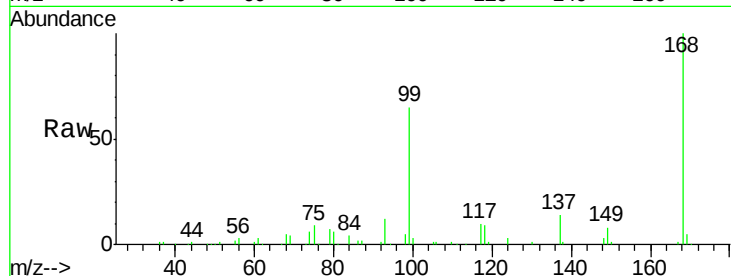




#38
Carbon Tetrachloride
Concen: 6.999 ug/l
RT: 7.79 min Scan# 1018
Delta R.T. -0.10 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

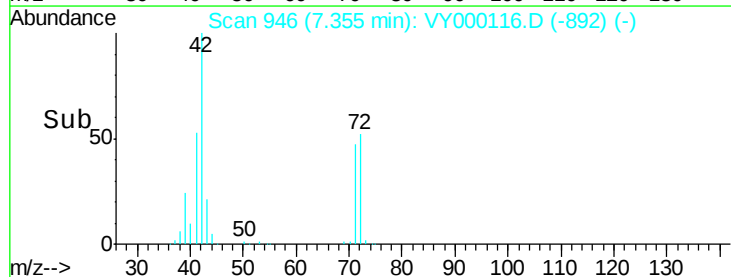
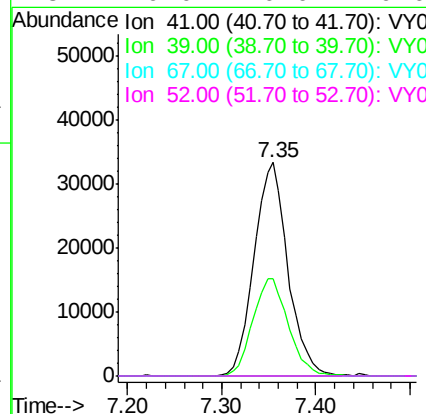
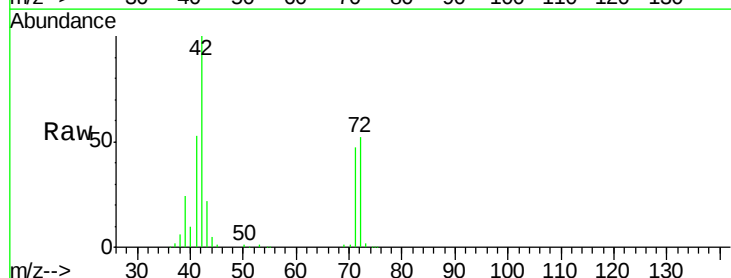
Instrument :
MSVOA_Y
ClientSampled :

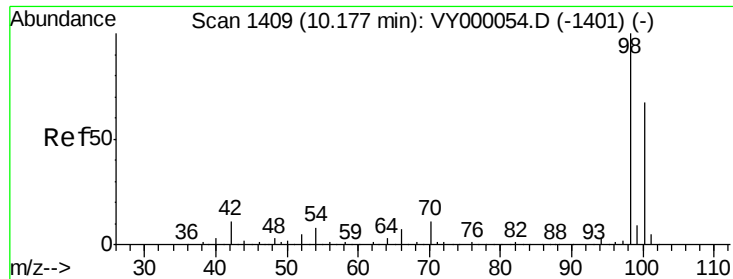
Tot Ion:117 Resp: 8781
Ion Ratio Lower Upper
117 100
119 5.7 75.0 112.6#
121 0.0 22.8 34.2#



#41
Methacrylonitrile
Concen: 157.544 ug/l
RT: 7.35 min Scan# 946
Delta R.T. 0.03 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

Tgt Ion: 41 Resp: 84226
Ion Ratio Lower Upper
41 100
39 47.9 91.8 137.6#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

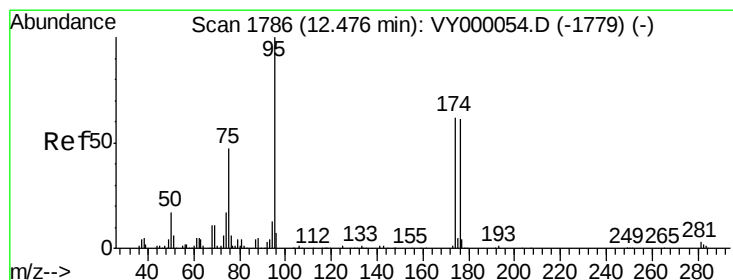
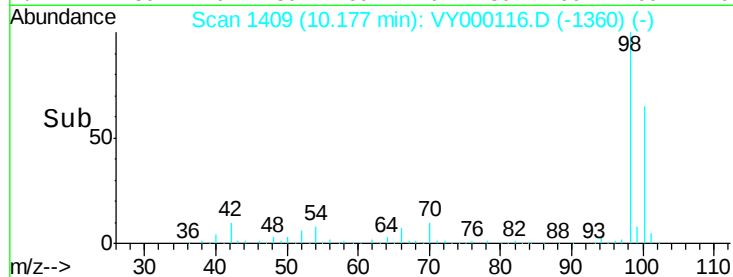
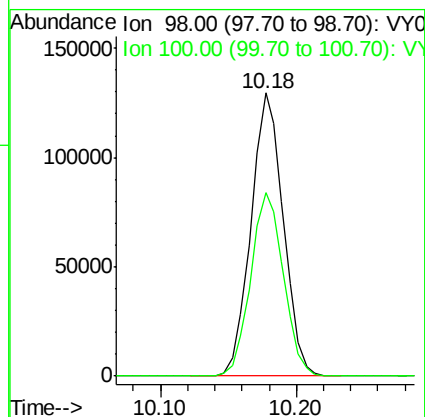
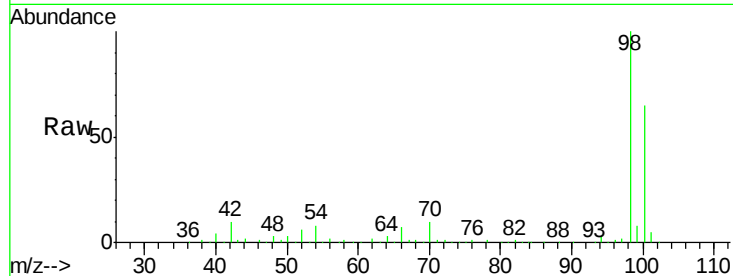




#50
Toluene-d8
Concen: 51.029 ug/l
RT: 10.18 min Scan# 1409
Delta R.T. -0.00 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

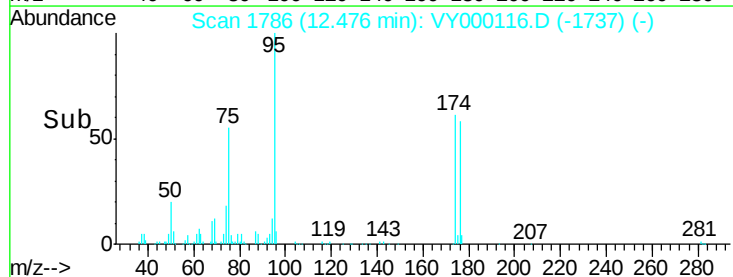
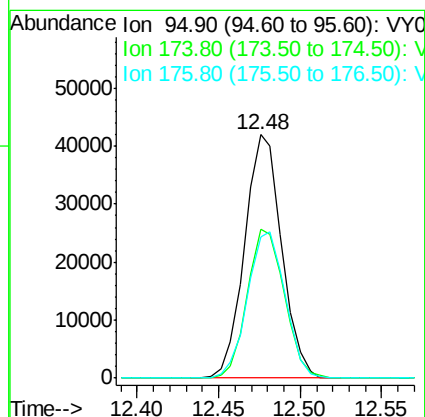
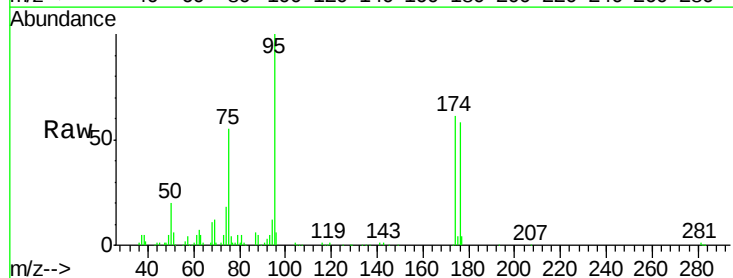
Instrument :
MSVOA_Y
ClientSampled :

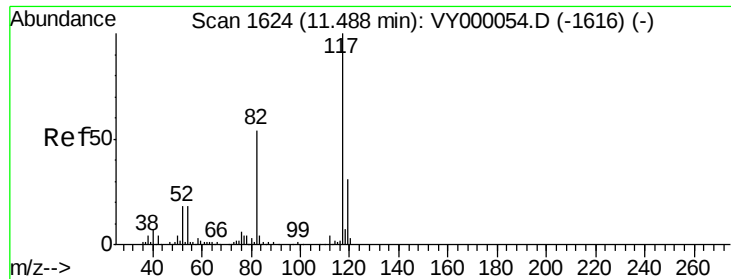
Tot Ion: 98 Resp: 215740
Ion Ratio Lower Upper
98 100
100 65.6 53.1 79.7



#62
4-Bromofluorobenzene
Concen: 42.221 ug/l
RT: 12.48 min Scan# 1786
Delta R.T. -0.00 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

Tgt Ion: 95 Resp: 66273
Ion Ratio Lower Upper
95 100
174 61.2 0.0 137.2
176 60.7 0.0 135.0

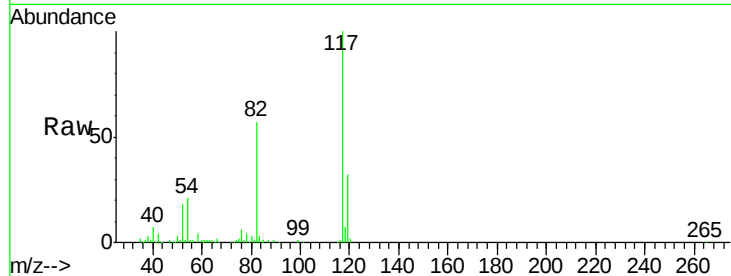




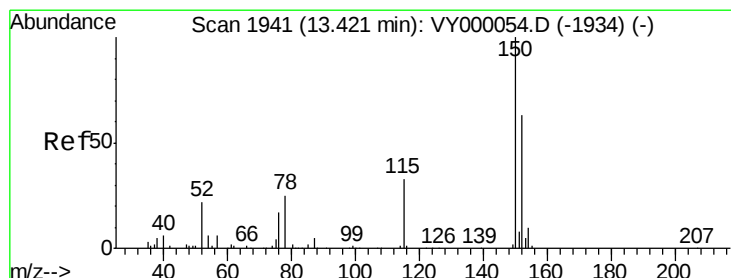
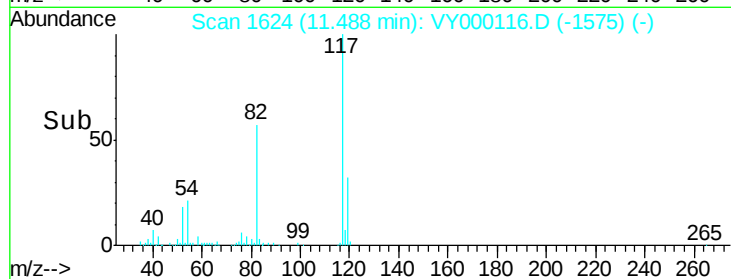
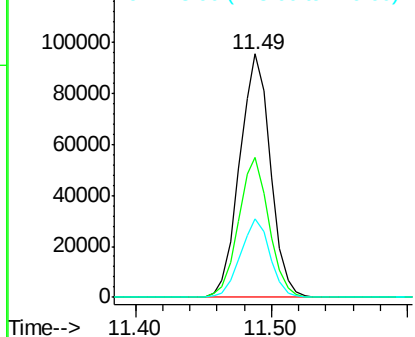
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1624
Delta R.T. -0.00 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

Instrument :
MSVOA_Y
ClientSampleId :

Tot Ion:117 Resp: 150334
Ion Ratio Lower Upper
117 100
82 57.4 43.5 65.3
119 32.5 24.6 36.8

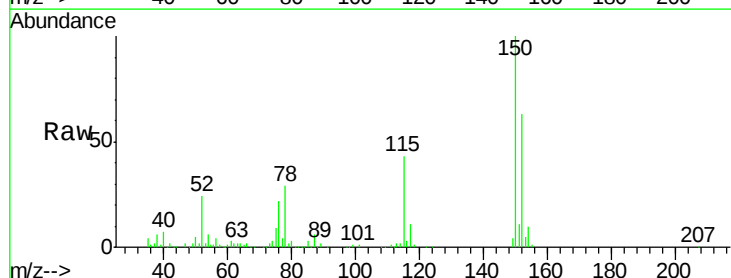


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VY0
Ion 118.90 (118.60 to 119.60): V

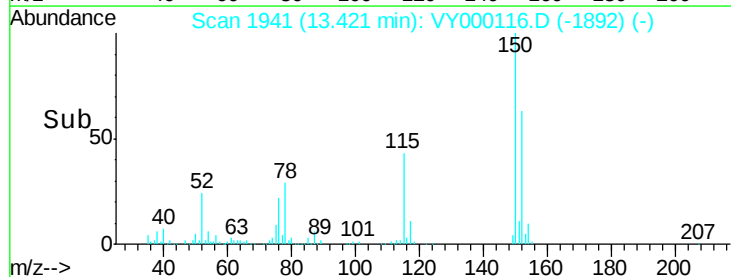
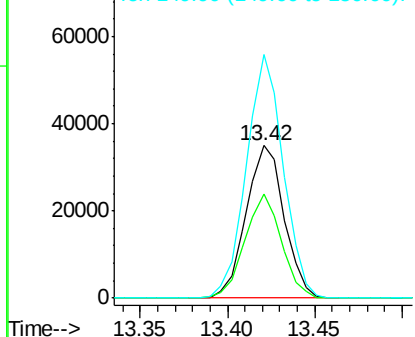


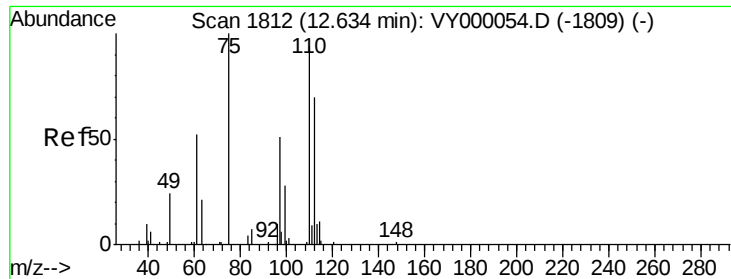
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1941
Delta R.T. -0.00 min
Lab File: VY000116.D
Acq: 20 Sep 2019 18:24

Tgt Ion:152 Resp: 52894
Ion Ratio Lower Upper
152 100
115 65.4 30.7 92.1
150 154.2 0.0 351.6



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

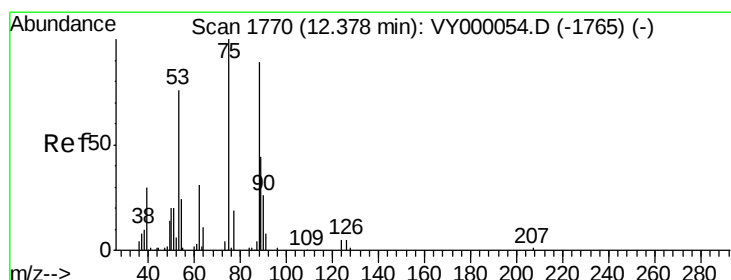
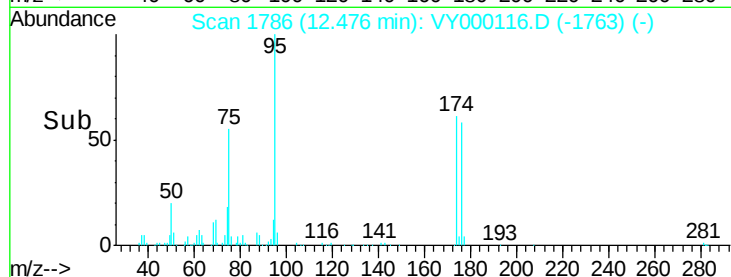
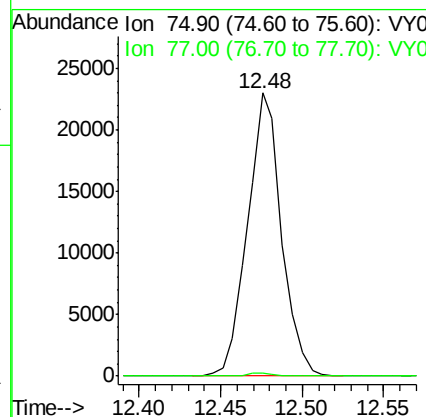
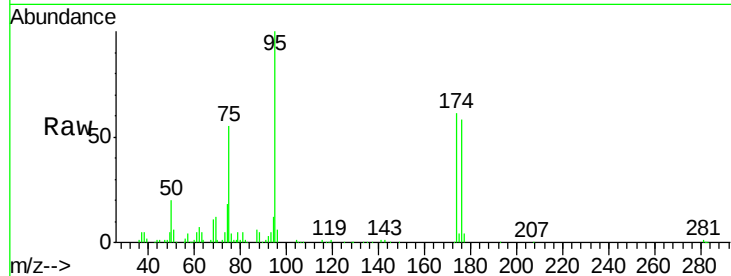




#76
 1,2,3-Trichloropropane
 Concen: 44.583 ug/l
 RT: 12.48 min Scan# 1786
 Delta R.T. -0.16 min
 Lab File: VY000116.D
 Acq: 20 Sep 2019 18:24

Instrument :
 MSVOA_Y
 ClientSampled :

Tot Ion: 75 Resp: 33179
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 85.743 ug/l
 RT: 12.48 min Scan# 1786
 Delta R.T. 0.10 min
 Lab File: VY000116.D
 Acq: 20 Sep 2019 18:24

Tgt Ion: 75 Resp: 33179
 Ion Ratio Lower Upper
 75 100
 53 0.0 60.9 91.3#
 89 0.1 35.3 52.9#

