

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058937.D
 Acq On : 23 Oct 2019 17:58
 Operator : JC/SP
 Sample : K5508-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:15:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	310504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	516449	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457902	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	172572	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	249423	54.77	ug/l	0.00
Spiked Amount			Recovery	=	109.54%	
35) Dibromofluoromethane	7.57	113	180010	53.01	ug/l	0.00
Spiked Amount			Recovery	=	106.02%	
50) Toluene-d8	10.09	98	625674	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	
62) 4-Bromofluorobenzene	12.40	95	206079	42.57	ug/l	0.00
Spiked Amount			Recovery	=	85.14%	

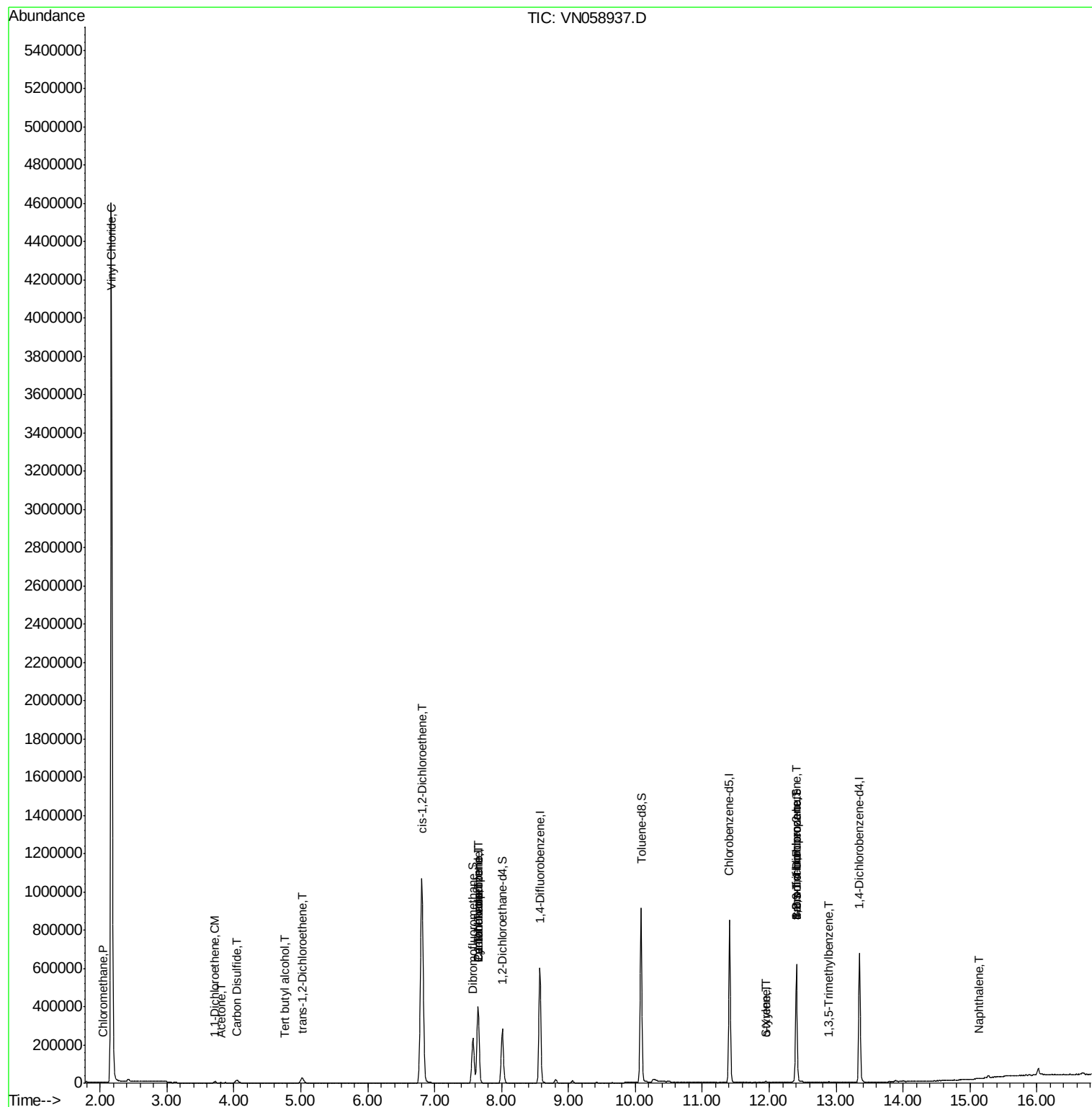
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1638	0.342	ug/l	90
4) Vinyl Chloride	2.17	62	4285660	900.213	ug/l #	74
11) Tert butyl alcohol	4.77	59	638	0.844	ug/l #	72
12) 1,1-Dichloroethene	3.72	96	3378	1.104	ug/l	87
16) Acetone	3.80	43	3932	1.747	ug/l #	88
17) Carbon Disulfide	4.04	76	3279	0.333	ug/l #	75
21) trans-1,2-Dichloroethene	5.02	96	16630	4.919	ug/l	95
27) cis-1,2-Dichloroethene	6.81	96	683760	177.065	ug/l	89
31) Cyclohexane	7.65	56	7061	1.079	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	26405	4.994	ug/l #	50
38) Carbon Tetrachloride	7.65	117	31606	5.802	ug/l #	17
69) o-Xylene	11.95	106	2073	0.358	ug/l	92
70) Styrene	11.96	104	29	1.716	ug/l #	1
71) Bromoform	12.40	173	706	0.259	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	111918	27.983	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.90	105	2580	0.243	ug/l	72
81) trans-1,4-Dichloro-2-buten	12.40	75	111918	72.897	ug/l #	10
95) Naphthalene	15.13	128	699	2.293	ug/l #	70

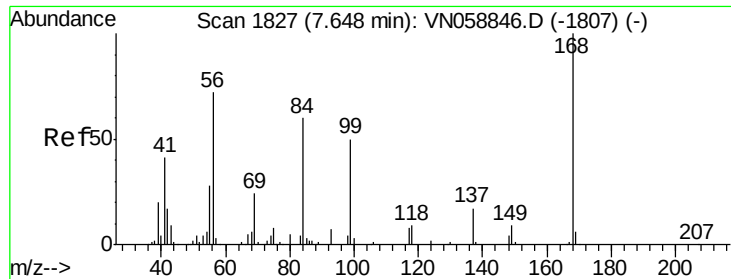
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

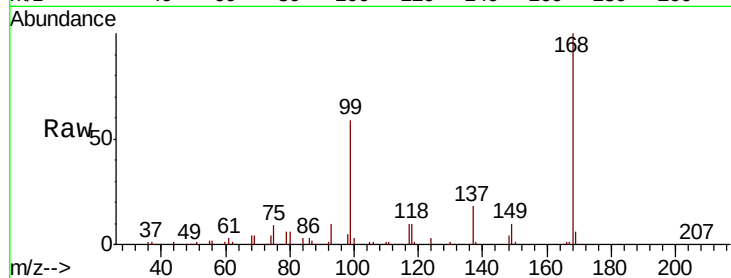
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 310504

Ion Ratio Lower Upper

168 100

99 59.4 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

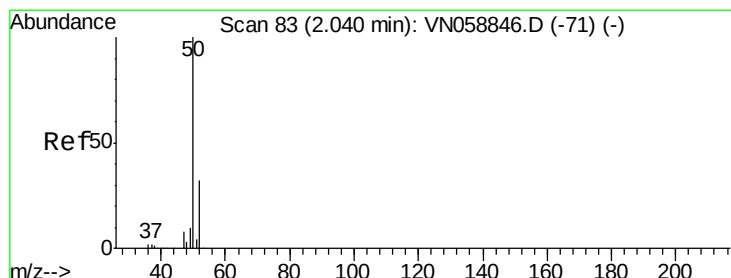
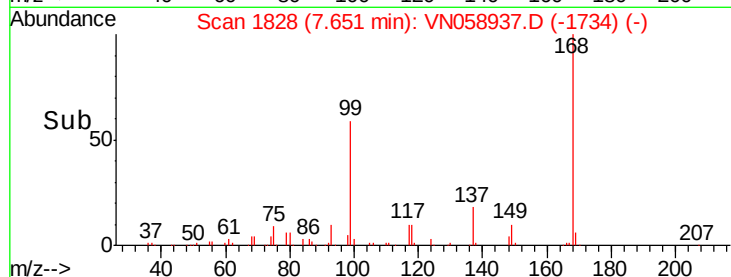
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.342 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058937.D

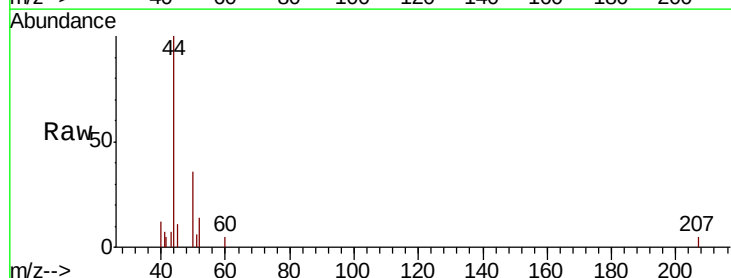
Acq: 23 Oct 2019 17:58

Tgt Ion: 50 Resp: 1638

Ion Ratio Lower Upper

50 100

52 37.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1200

1000

800

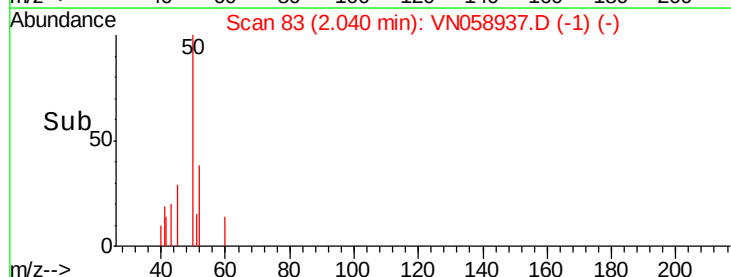
600

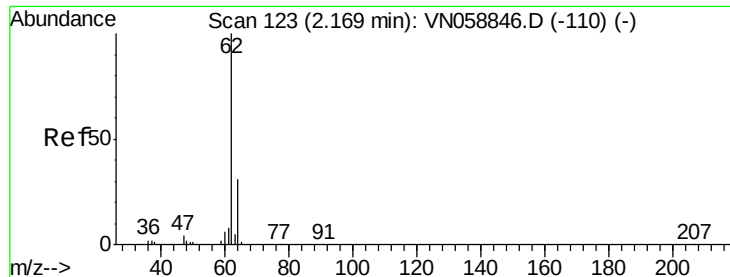
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 900.213 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

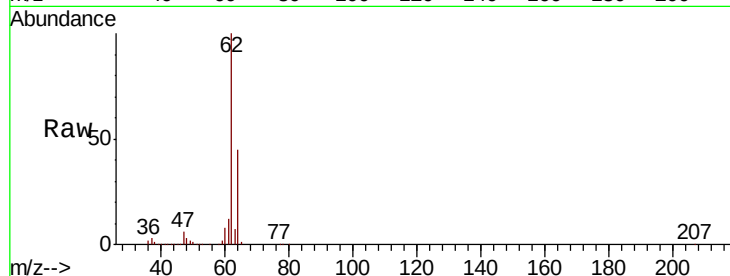
ClientSampled :

Tot Ion: 62 Resp: 4285660

Ion Ratio Lower Upper

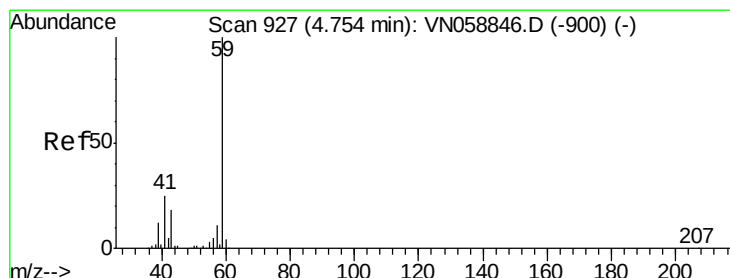
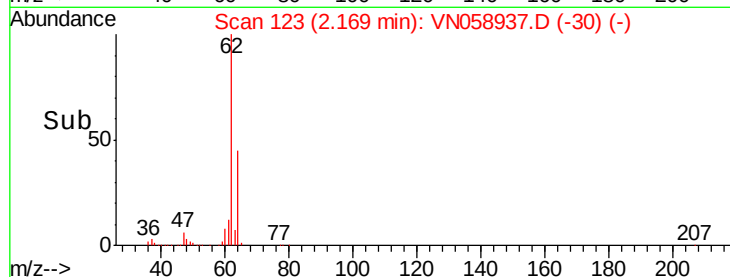
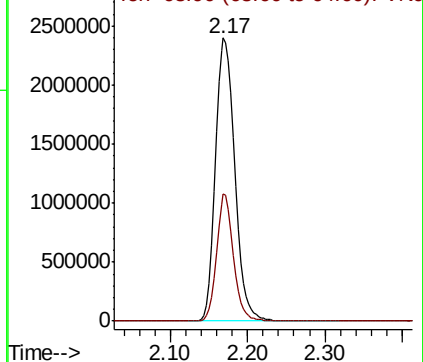
62 100

64 45.1 24.6 36.8#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#11

Tert butyl alcohol

Concen: 0.844 ug/l

RT: 4.77 min Scan# 931

Delta R.T. 0.01 min

Lab File: VN058937.D

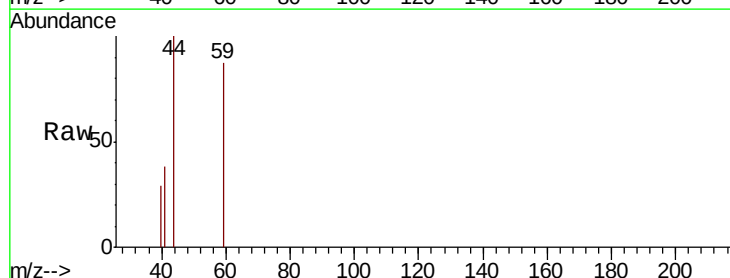
Acq: 23 Oct 2019 17:58

Tgt Ion: 59 Resp: 638

Ion Ratio Lower Upper

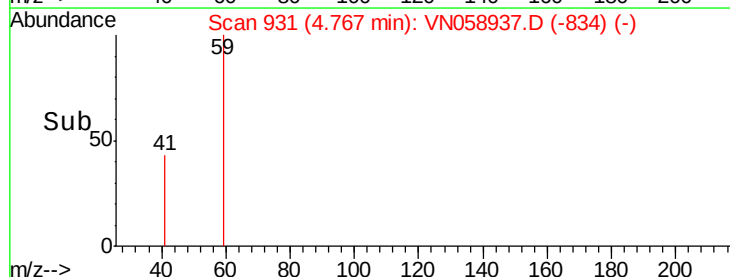
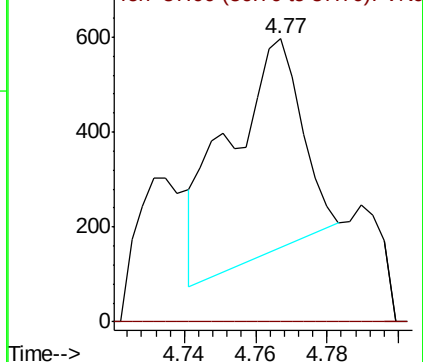
59 100

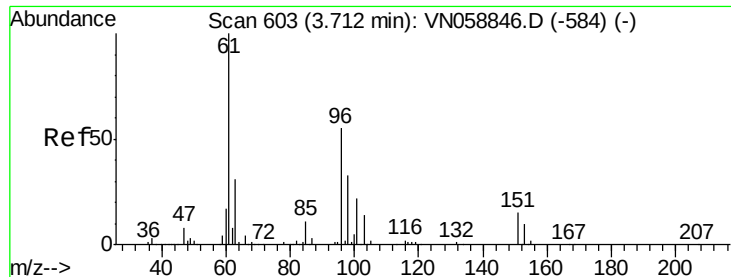
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#12

1,1-Dichloroethene

Concen: 1.104 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

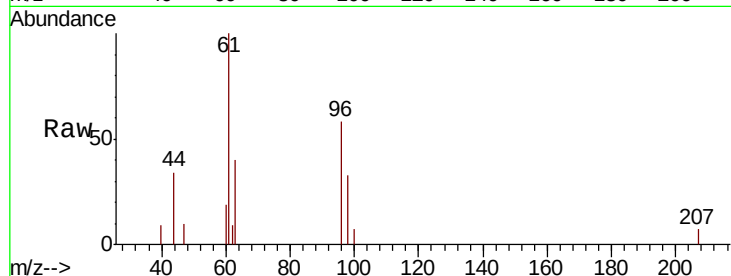
Tot Ion: 96 Resp: 3378

Ion Ratio Lower Upper

96 100

61 160.5 146.2 219.2

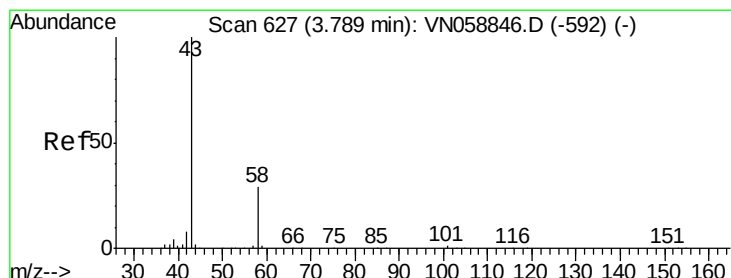
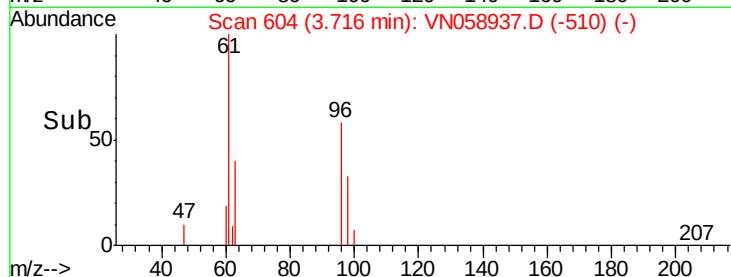
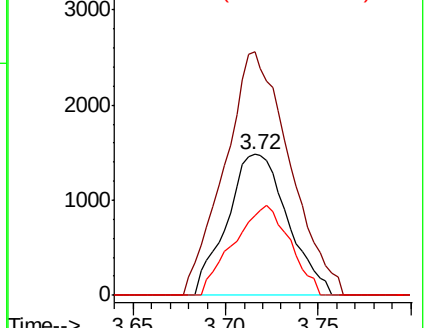
98 56.6 48.7 73.1



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#16

Acetone

Concen: 1.747 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058937.D

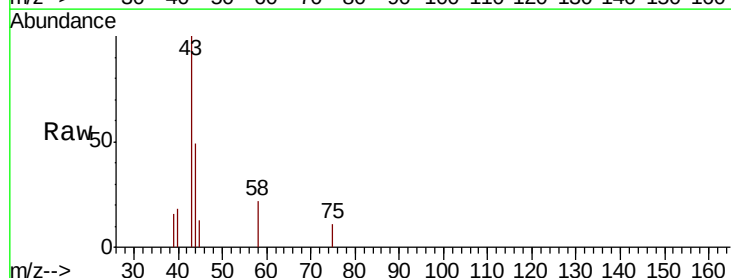
Acq: 23 Oct 2019 17:58

Tgt Ion: 43 Resp: 3932

Ion Ratio Lower Upper

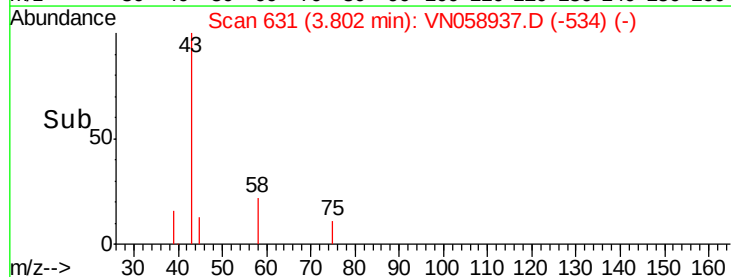
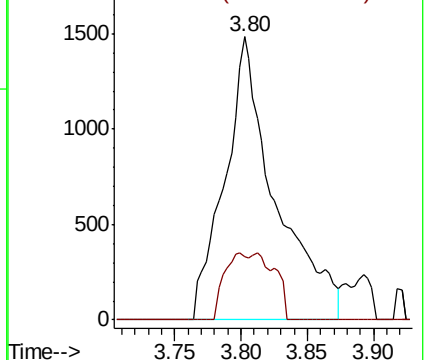
43 100

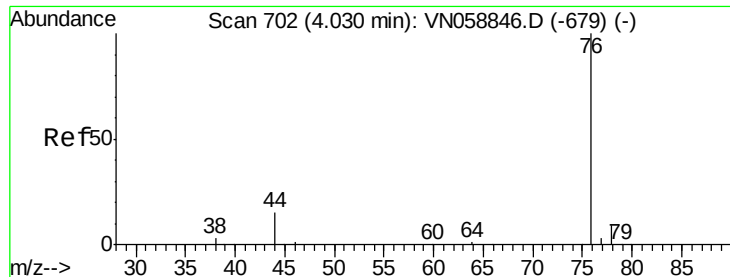
58 22.3 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.333 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.01 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

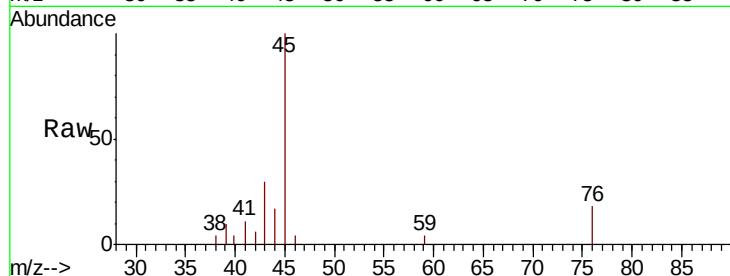
ClientSampleId :

Tot Ion: 76 Resp: 3279

Ion Ratio Lower Upper

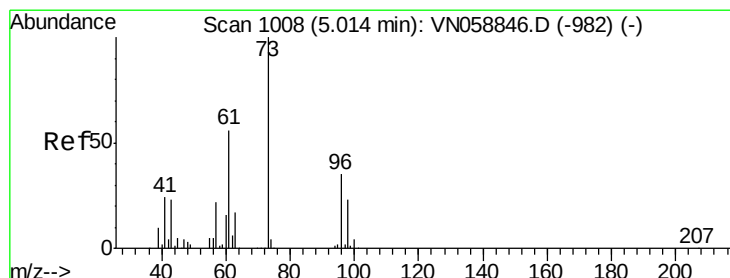
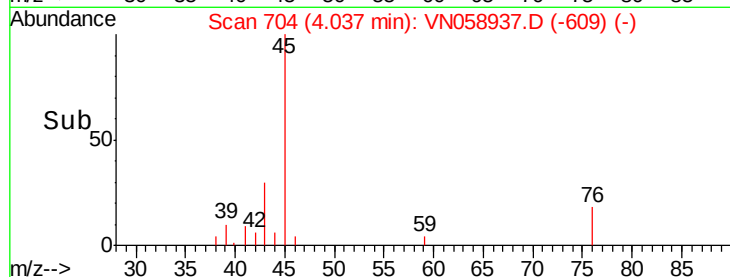
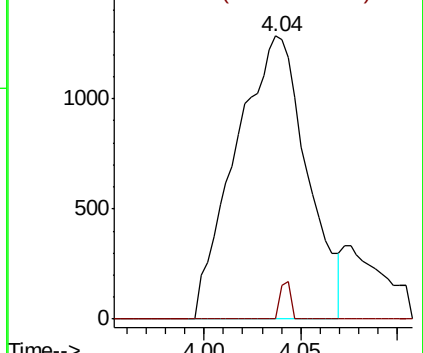
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 4.919 ug/l

RT: 5.02 min Scan# 1009

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

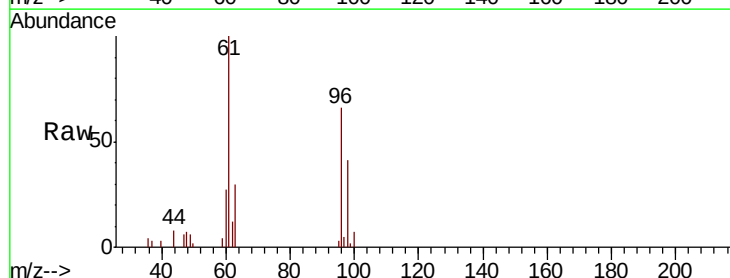
Tgt Ion: 96 Resp: 16630

Ion Ratio Lower Upper

96 100

61 151.6 126.7 190.1

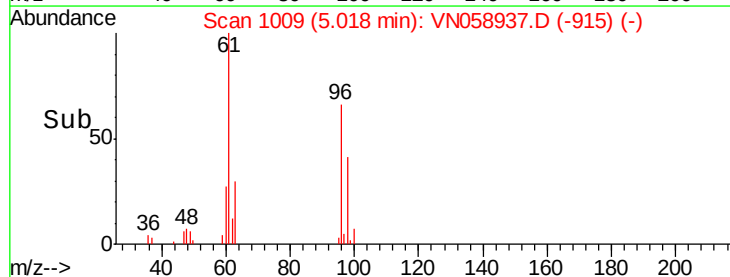
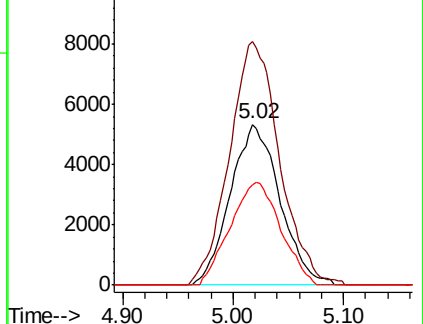
98 62.4 52.0 78.0

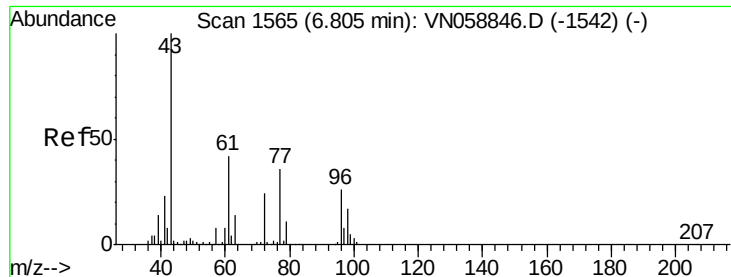


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 177.065 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

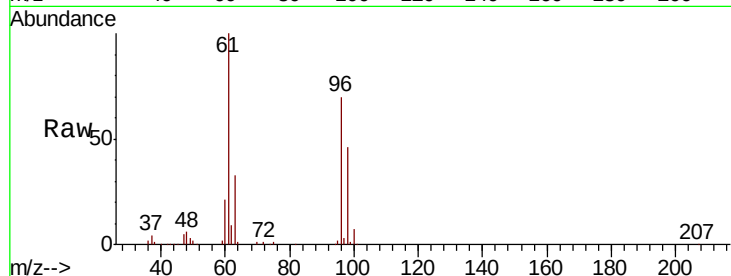
Tot Ion: 96 Resp: 683760

Ion Ratio Lower Upper

96 100

61 142.8 0.0 325.0

98 64.9 0.0 128.0

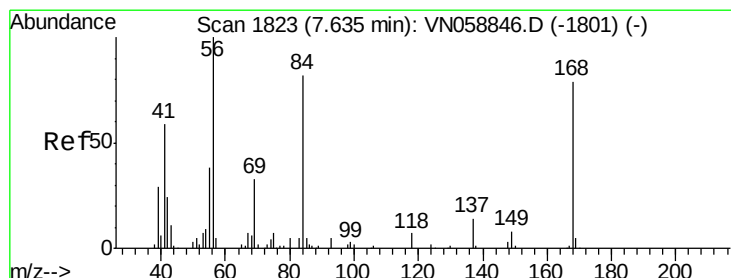
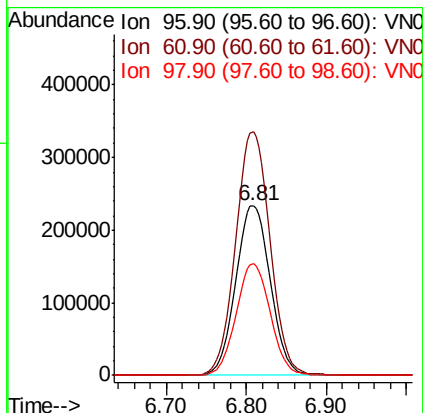
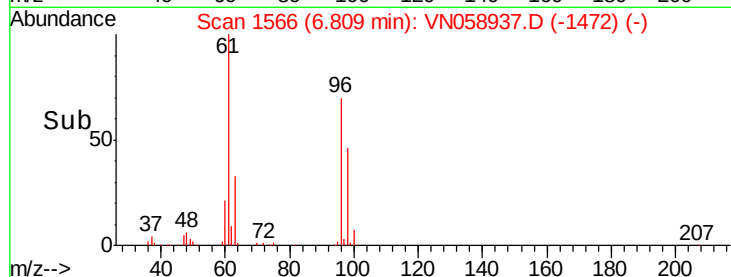


Abundance Ion 95.90 (95.60 to 96.60): VN058846.D (-1542) (-)

Ion 60.90 (60.60 to 61.60): VN058846.D (-1542) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1542) (-)

Time-->



#31

Cyclohexane

Concen: 1.079 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

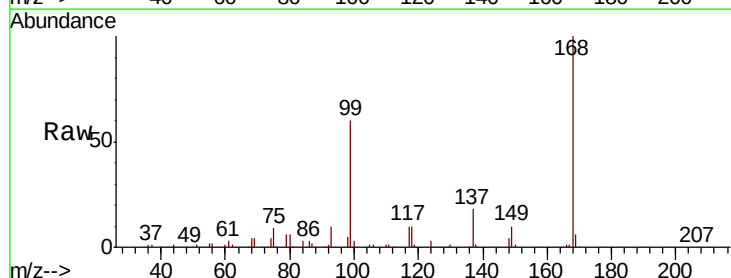
Tgt Ion: 56 Resp: 7061

Ion Ratio Lower Upper

56 100

69 191.6 26.2 39.4#

84 131.8 65.6 98.4#

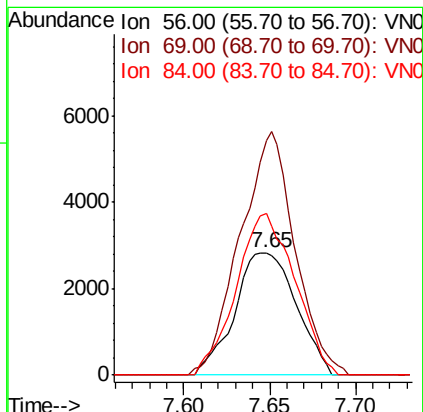
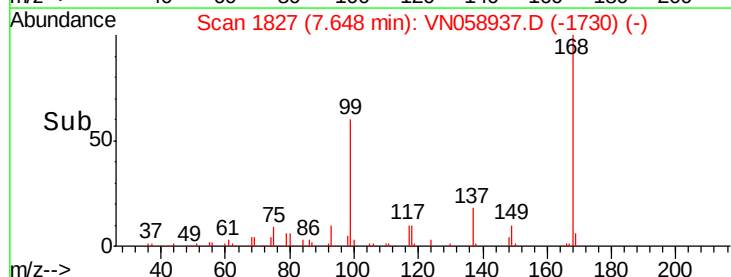


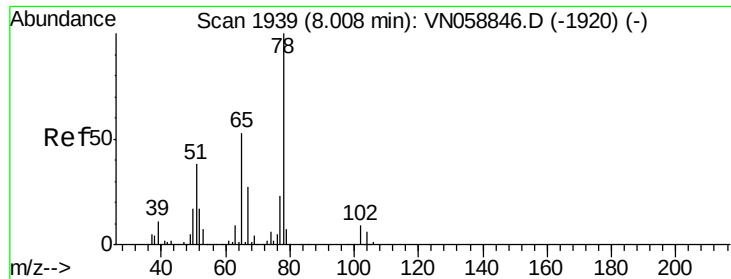
Abundance Ion 56.00 (55.70 to 56.70): VN058846.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN058846.D (-1801) (-)

Time-->

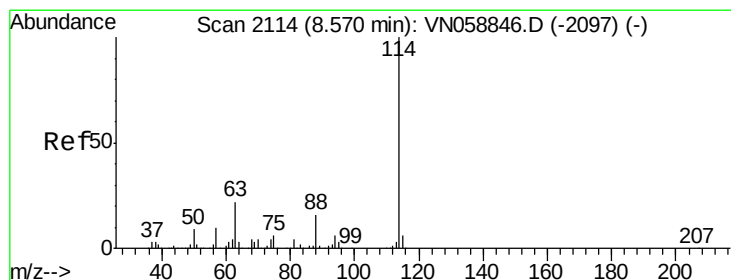
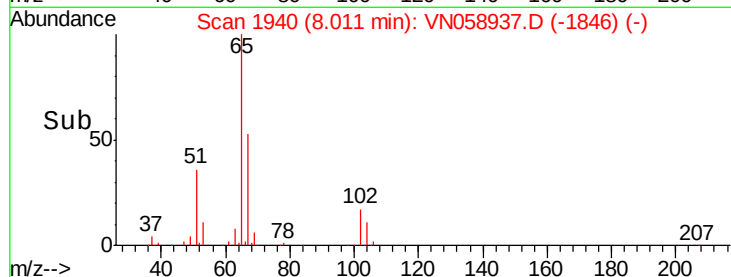
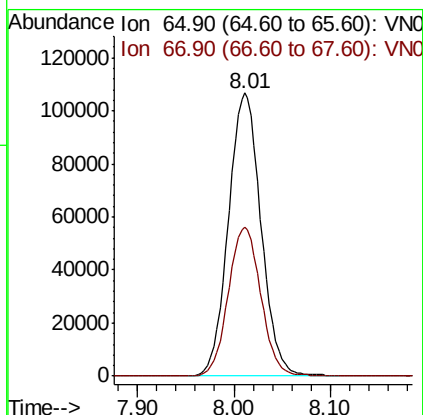
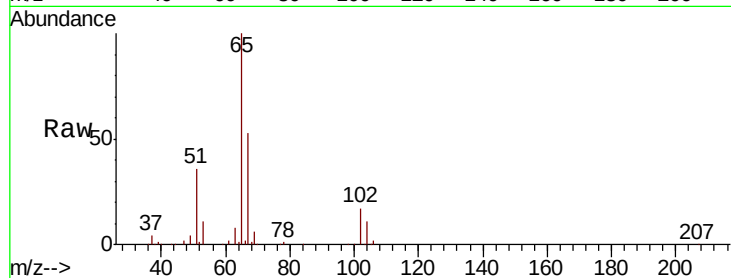




#33
 1,2-Dichloroethane-d4
 Concen: 54.770 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058937.D
 Acq: 23 Oct 2019 17:58

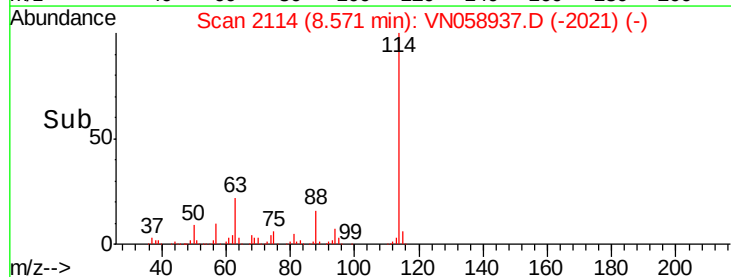
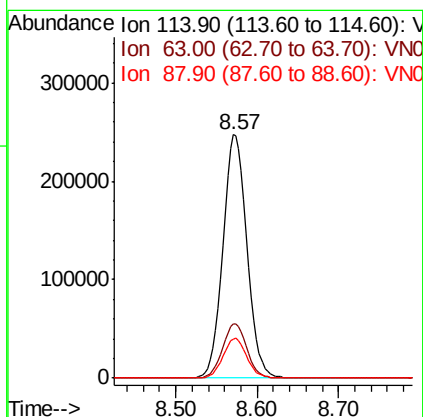
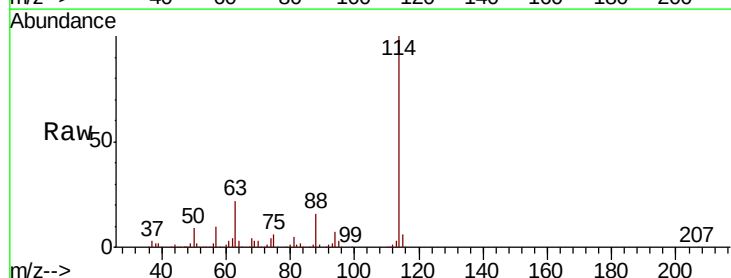
Instrument :
 MSVOA_N
 ClientSampleId :

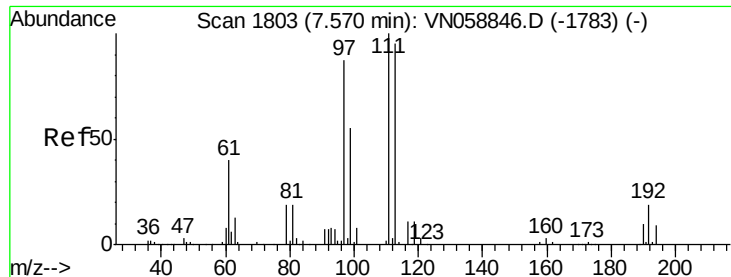
Tot Ion: 65 Resp: 249423
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058937.D
 Acq: 23 Oct 2019 17:58

Tgt Ion: 114 Resp: 516449
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.4
 88 16.1 0.0 31.4

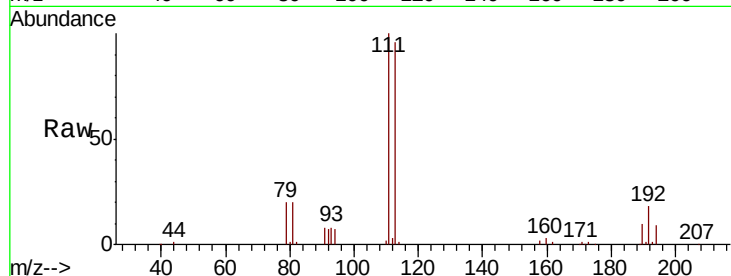




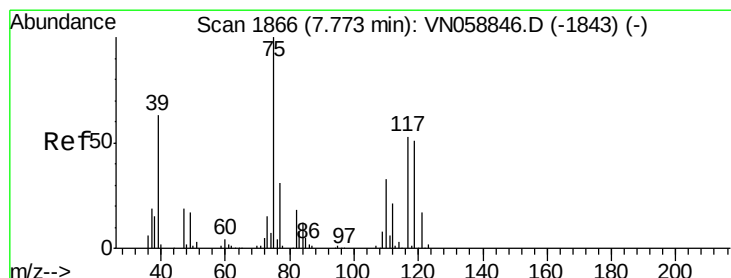
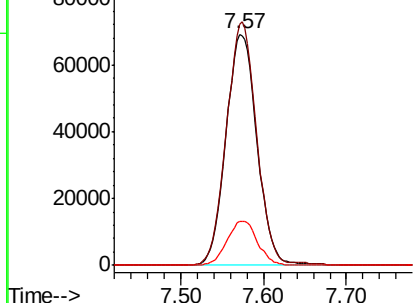
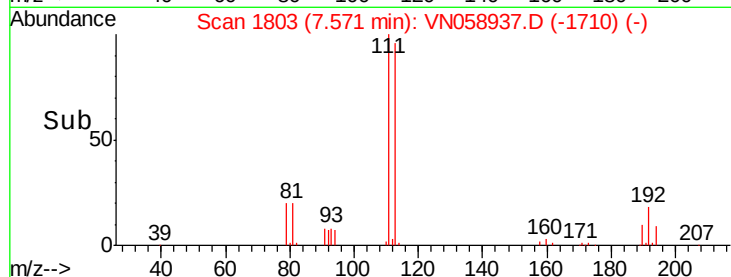
#35
 Dibromofluoromethane
 Concen: 53.014 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN058937.D
 Acq: 23 Oct 2019 17:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.0	123.0
192	18.8	15.0	22.6

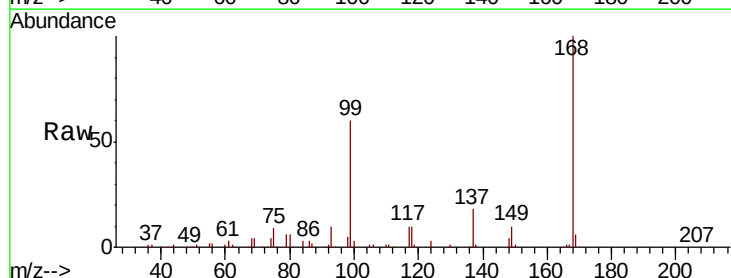


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

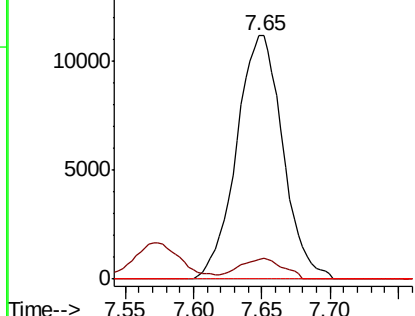
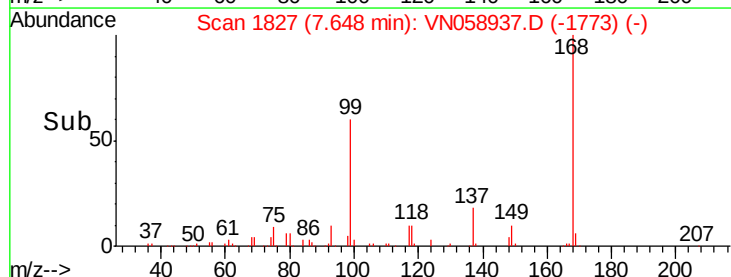


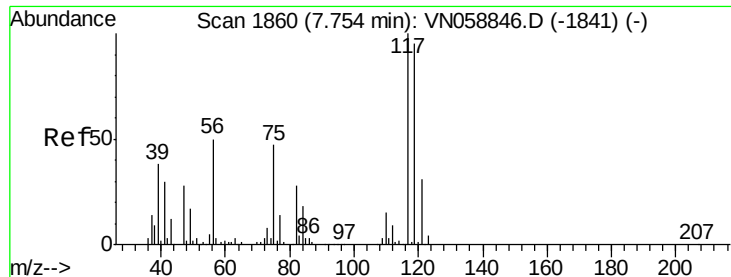
#36
 1,1-Dichloropropene
 Concen: 4.994 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058937.D
 Acq: 23 Oct 2019 17:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.1	16.3	48.9#
77	0.0	24.6	36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.802 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

ClientSampled :

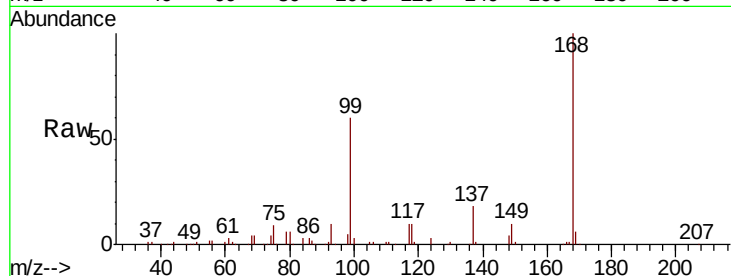
Tot Ion:117 Resp: 31606

Ion Ratio Lower Upper

117 100

119 5.8 75.7 113.5#

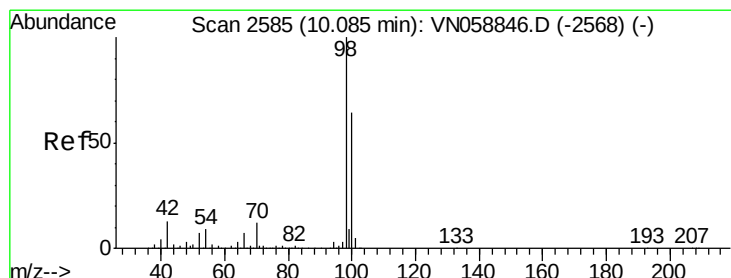
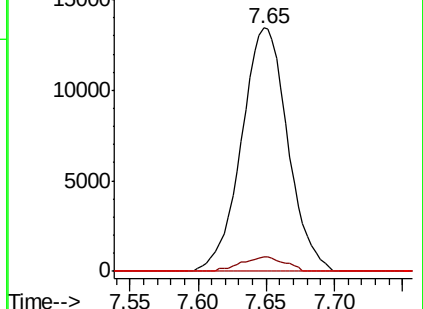
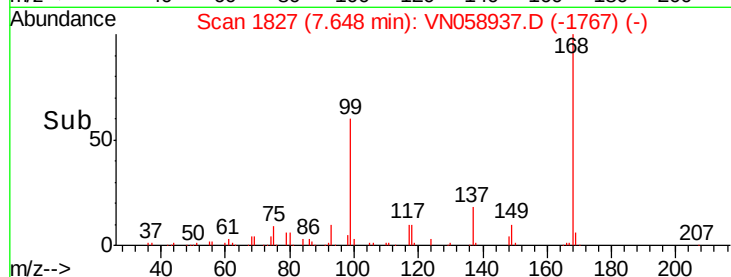
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 47.468 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058937.D

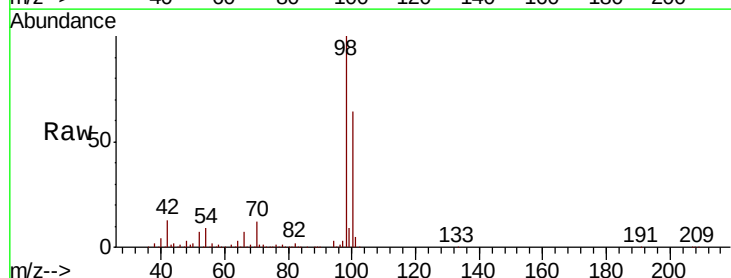
Acq: 23 Oct 2019 17:58

Tgt Ion: 98 Resp: 625674

Ion Ratio Lower Upper

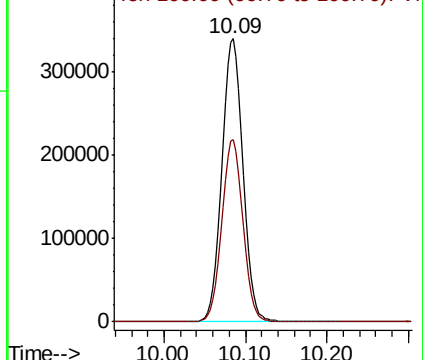
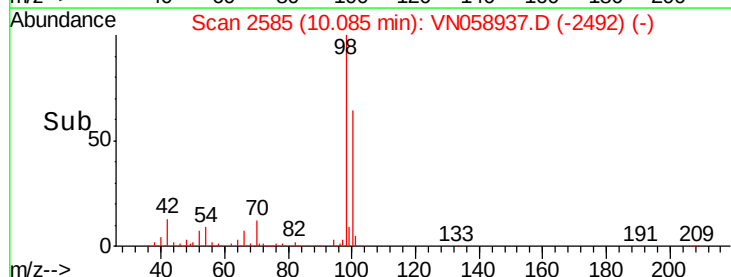
98 100

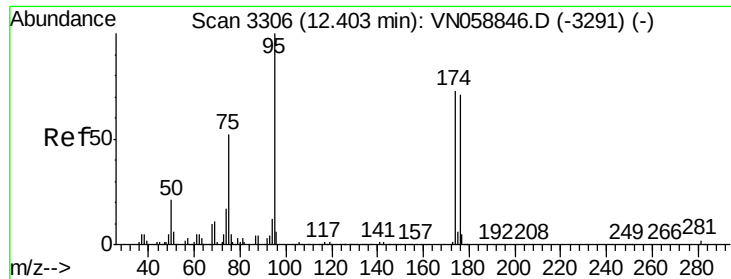
100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

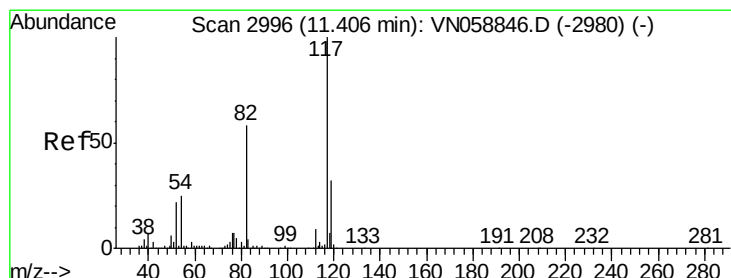
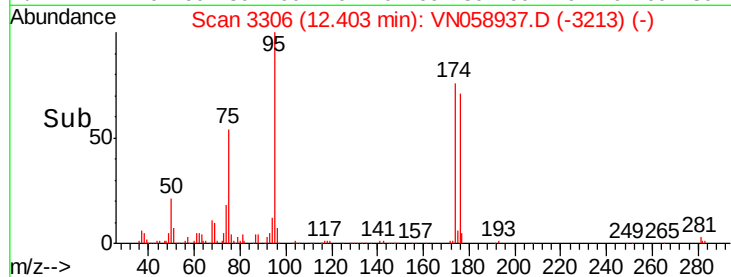
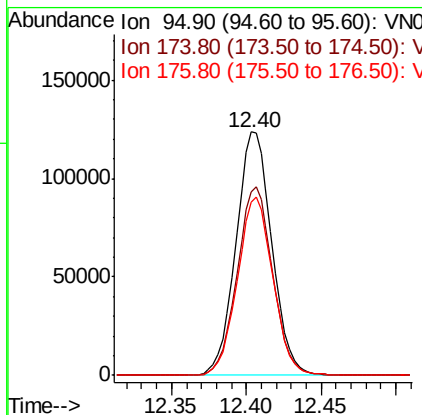
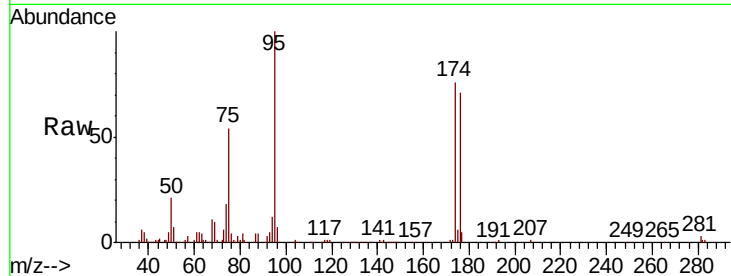




#62
4-Bromofluorobenzene
Concen: 42.575 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN058937.D
Acq: 23 Oct 2019 17:58

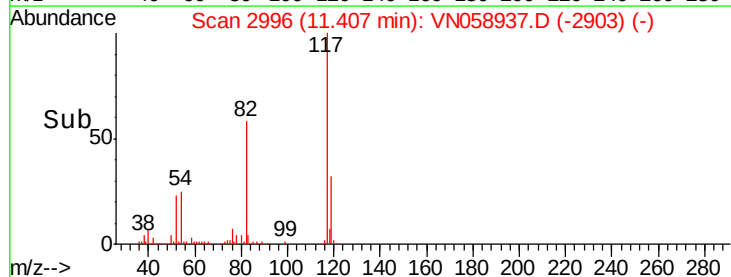
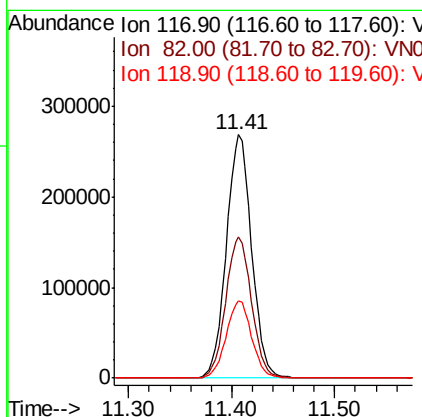
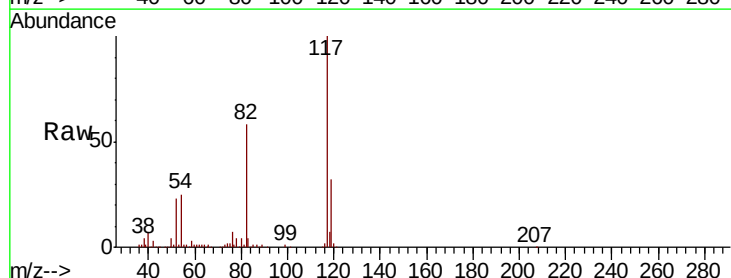
Instrument :
MSVOA_N
ClientSampleId :

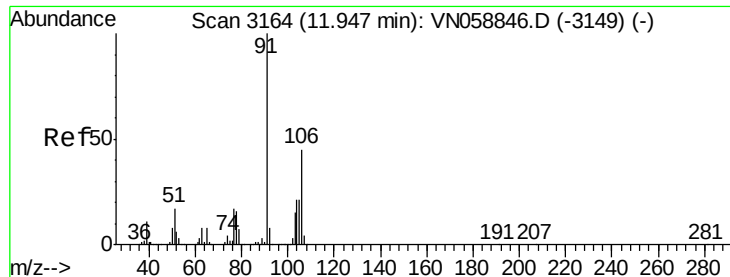
Tot Ion	95	Resp	206079
Ion Ratio	Lower	Upper	
95	100		
174	76.7	0.0	147.6
176	72.6	0.0	143.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058937.D
Acq: 23 Oct 2019 17:58

Tgt Ion	117	Resp	457902
Ion Ratio	Lower	Upper	
117	100		
82	58.1	46.6	69.8
119	32.0	25.6	38.4

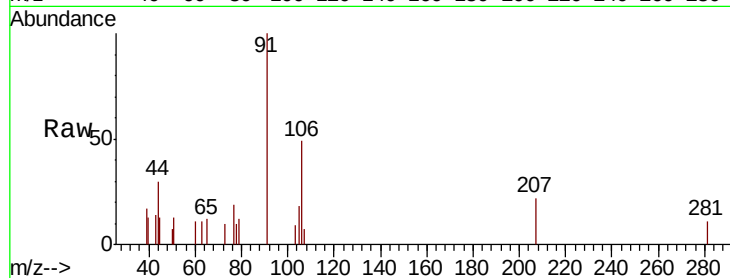




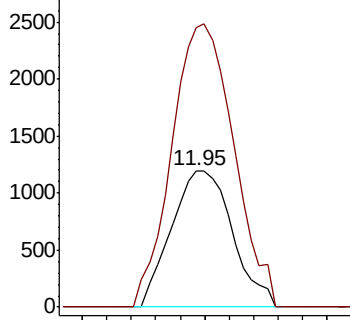
#69
o-Xylene
Concen: 0.358 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN058937.D
Acq: 23 Oct 2019 17:58

Instrument :
MSVOA_N
ClientSampled :

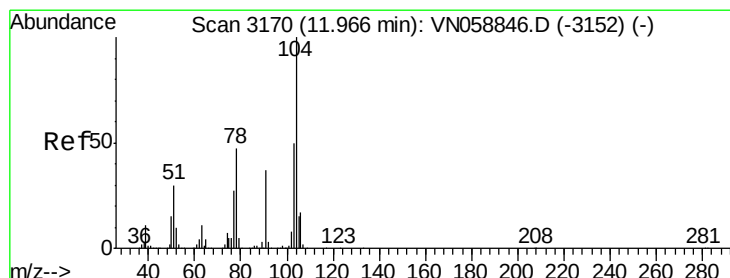
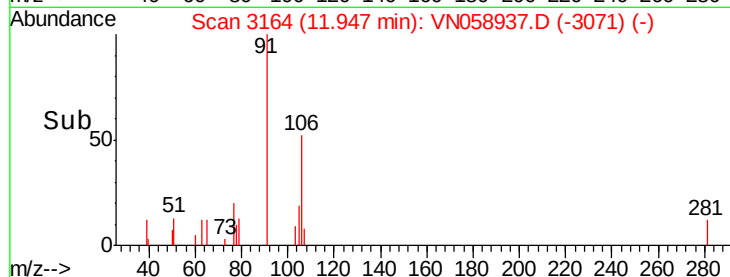
Tot Ion:106 Resp: 2073
Ion Ratio Lower Upper
106 100
91 210.7 111.5 334.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN

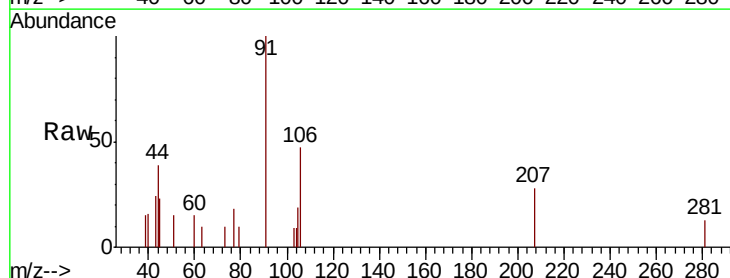


Time-->

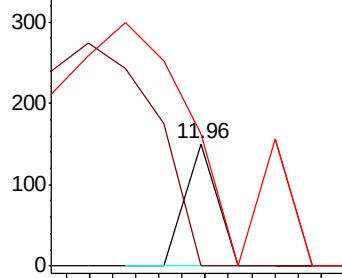


#70
Styrene
Concen: 1.716 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VN058937.D
Acq: 23 Oct 2019 17:58

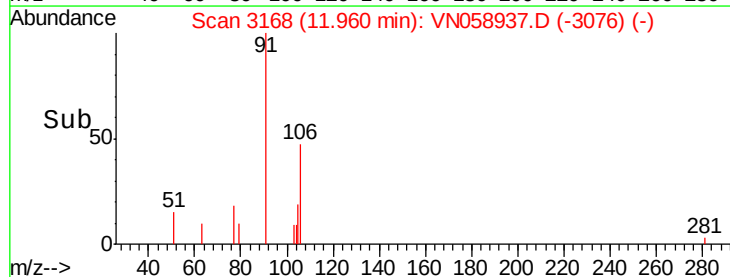
Tgt Ion:104 Resp: 29
Ion Ratio Lower Upper
104 100
78 748.3 42.8 64.2#
103 1162.1 44.3 66.5#

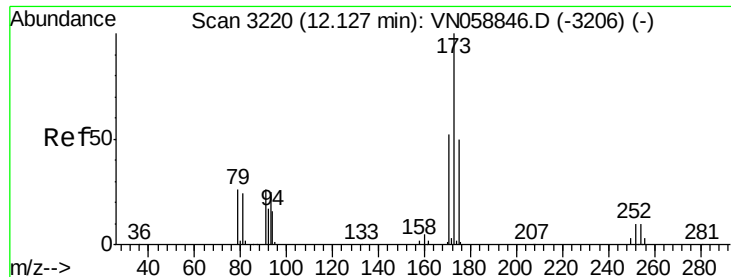


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN
Ion 103.00 (102.70 to 103.70): V



Time-->





#71

Bromoform

Concen: 0.259 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

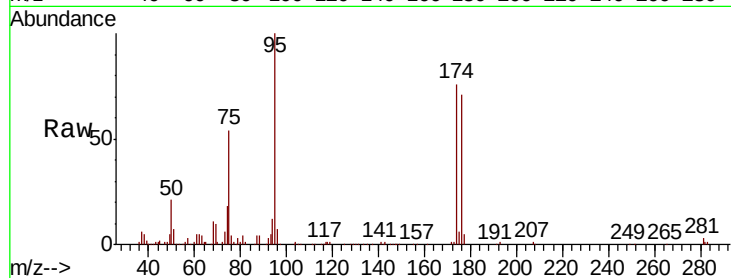
Tot Ion:173 Resp: 706

Ion Ratio Lower Upper

173 100

175 1290.1 24.7 74.1#

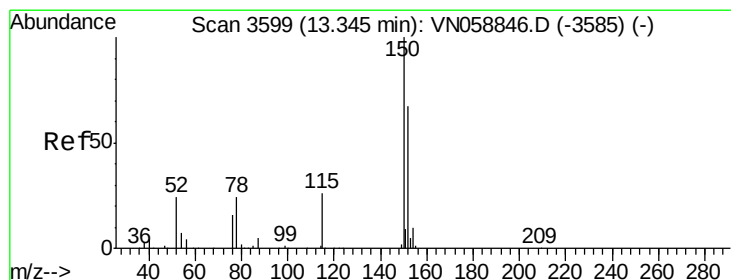
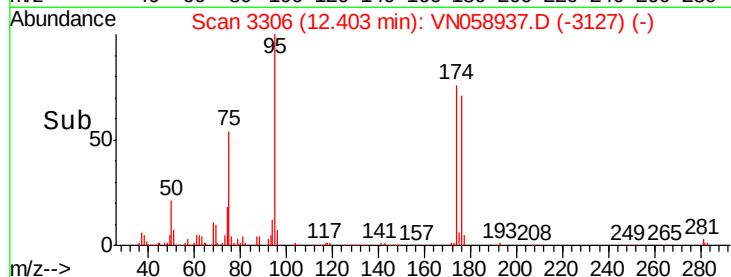
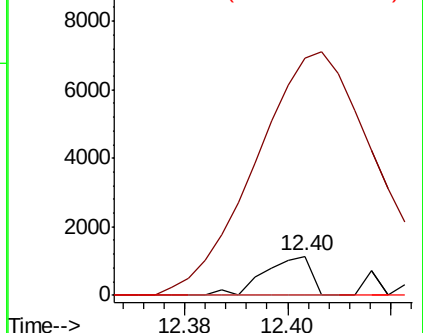
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

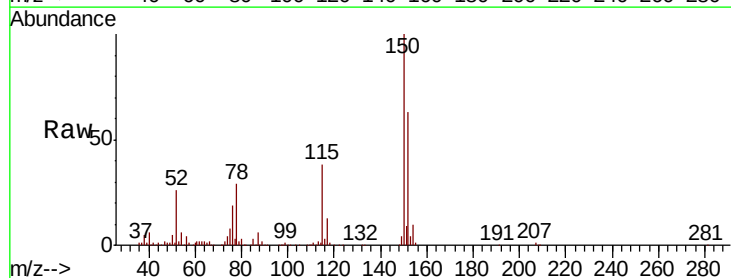
Tgt Ion:152 Resp: 172572

Ion Ratio Lower Upper

152 100

115 60.6 30.5 91.5

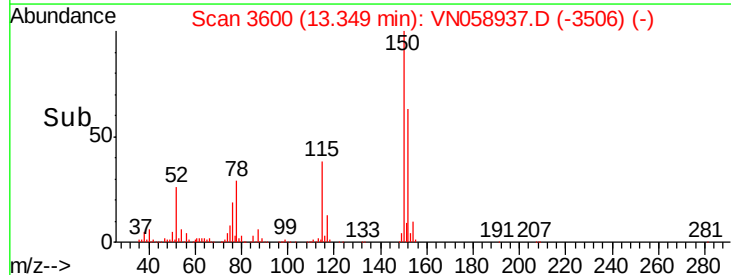
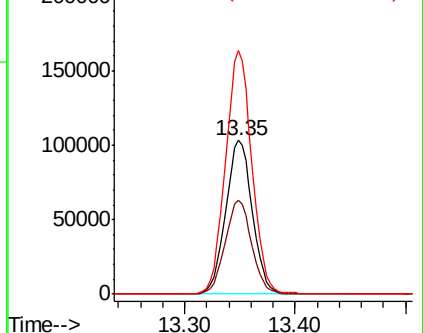
150 156.7 0.0 344.4

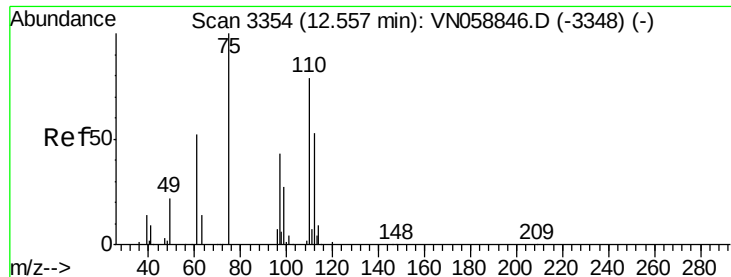


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.983 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

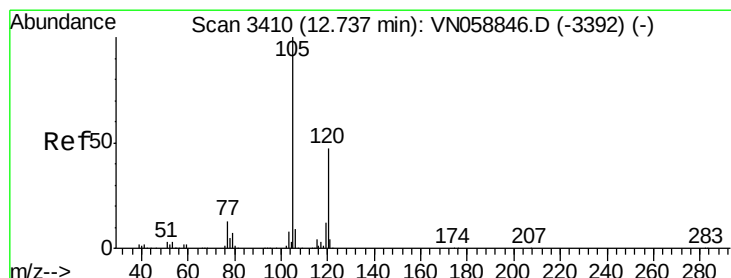
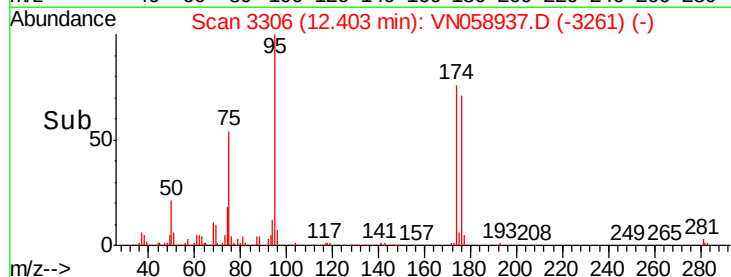
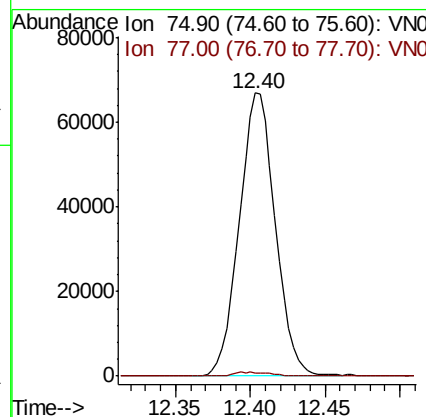
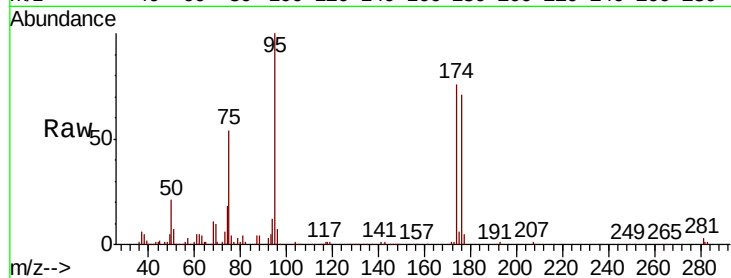
ClientSampleId :

Tot Ion: 75 Resp: 111918

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.243 ug/l

RT: 12.90 min Scan# 3459

Delta R.T. 0.16 min

Lab File: VN058937.D

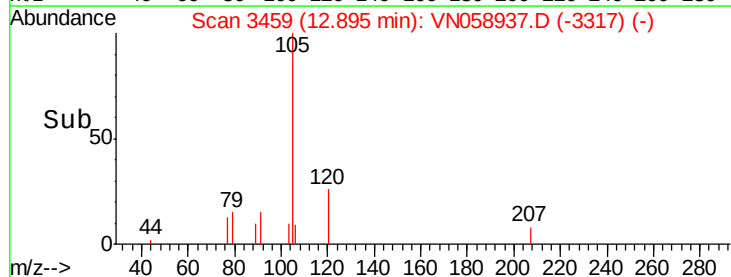
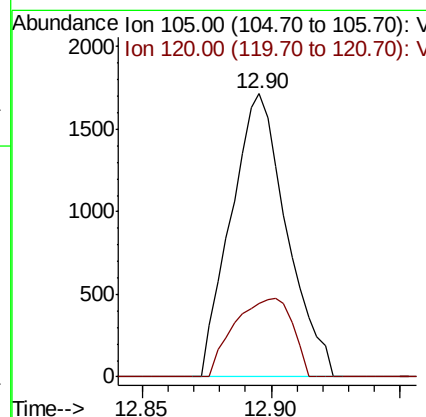
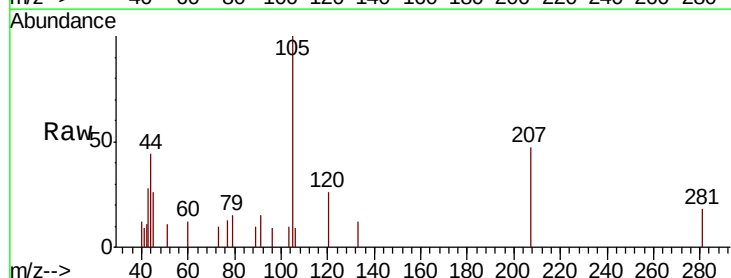
Acq: 23 Oct 2019 17:58

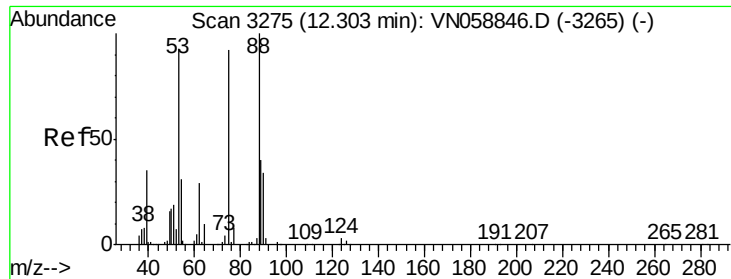
Tgt Ion: 105 Resp: 2580

Ion Ratio Lower Upper

105 100

120 29.1 23.8 71.5





#81

trans-1,4-Dichloro-2-butene

Concen: 72.897 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

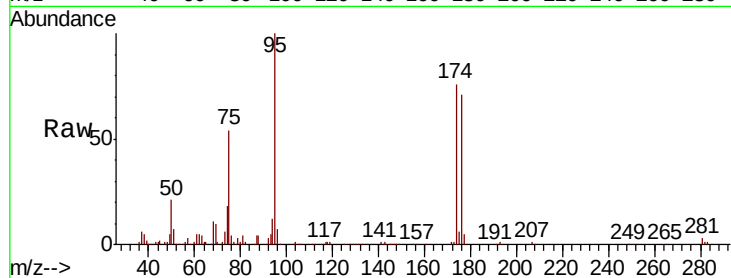
Tot Ion: 75 Resp: 111918

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

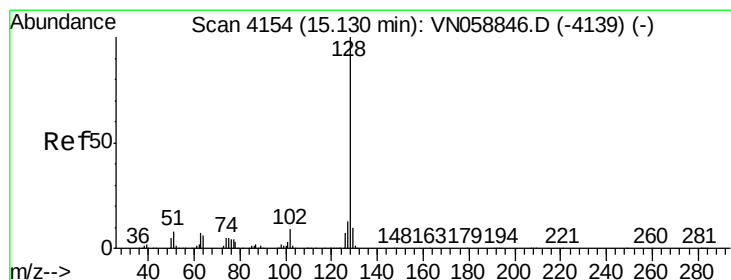
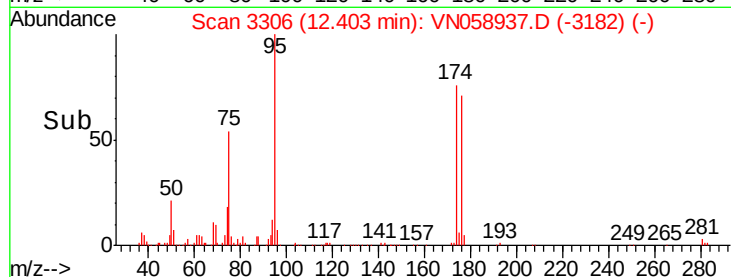
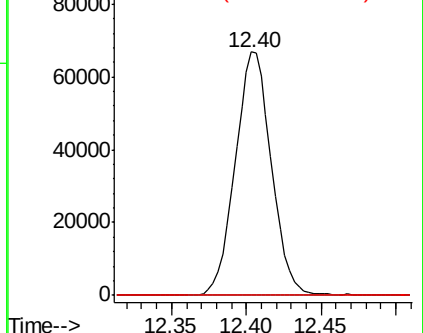
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN058846.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN058846.D (-3265) (-)



#95

Naphthalene

Concen: 2.293 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN058937.D

Acq: 23 Oct 2019 17:58

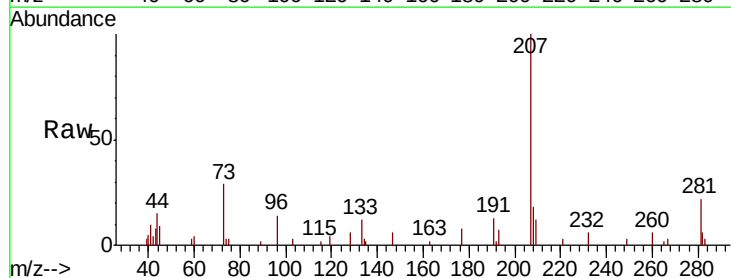
Tgt Ion: 128 Resp: 699

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): VN058846.D (-4139) (-)

Ion 127.00 (126.70 to 127.70): VN058846.D (-4139) (-)

Ion 129.00 (128.70 to 129.70): VN058846.D (-4139) (-)

