

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091519\
 Data File : VN058083.D
 Acq On : 15 Sep 2019 12:04
 Operator : JC/SP
 Sample : K4695-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 16 03:39:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

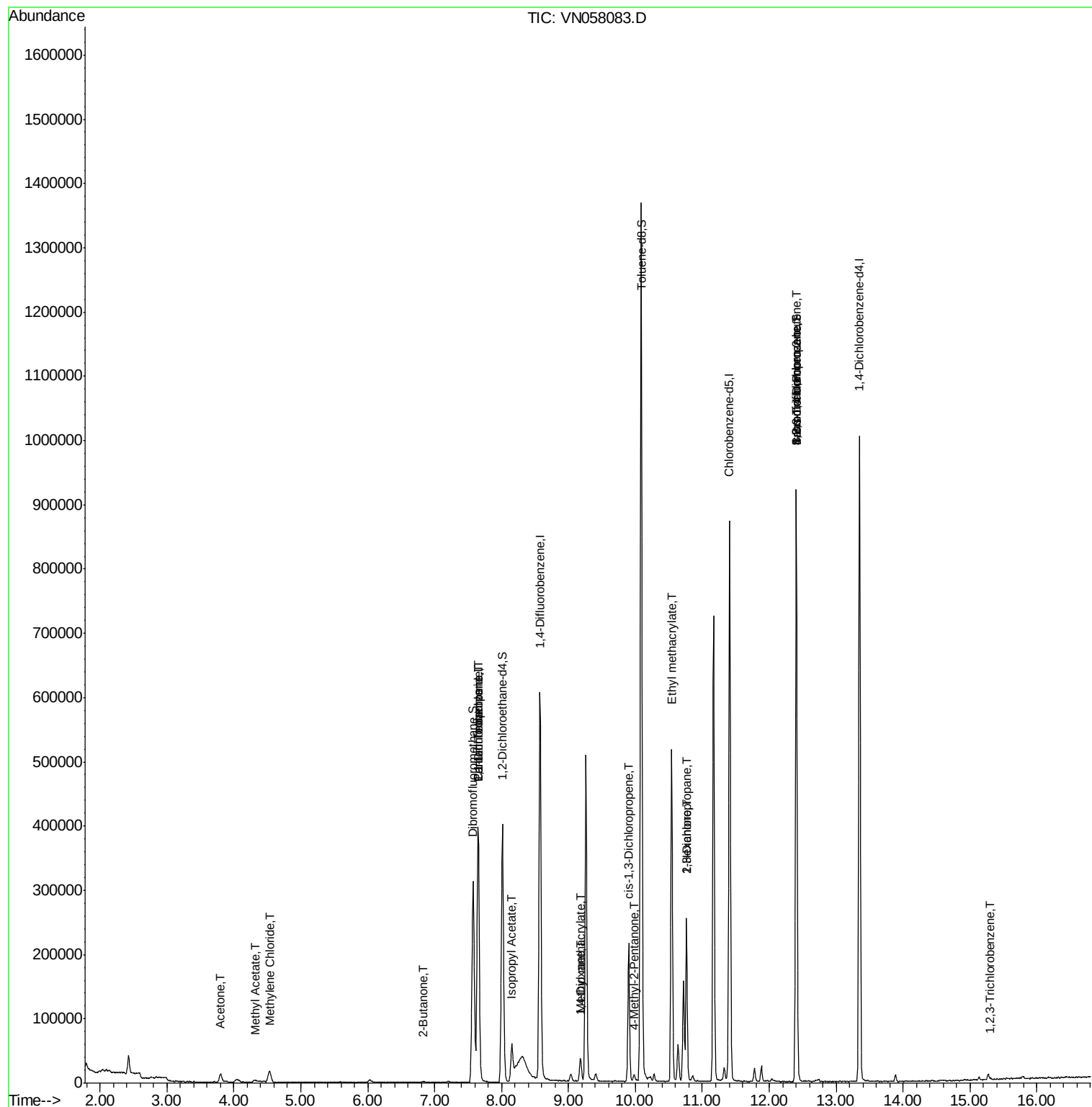
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	312799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	519910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	472127	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249634	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	346244	54.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.30%	
35) Dibromofluoromethane	7.58	113	237432	49.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.96%	
50) Toluene-d8	10.08	98	943155	50.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.24%	
62) 4-Bromofluorobenzene	12.40	95	312749	44.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.10%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.55	94	502	Below Cal		100
16) Acetone	3.80	43	23643	11.384 ug/l		97
18) Methyl Acetate	4.31	43	3009	0.543 ug/l #		80
20) Methylene Chloride	4.53	84	13095	2.134 ug/l		86
25) 2-Butanone	6.83	43	1380	0.459 ug/l		97
31) Cyclohexane	7.65	56	8514	Below Cal #		19
36) 1,1-Dichloropropene	7.65	75	27270	4.523 ug/l #		51
38) Carbon Tetrachloride	7.65	117	30249	5.495 ug/l #		16
43) Isopropyl Acetate	8.15	43	72015	6.874 ug/l #		87
48) Methyl methacrylate	9.18	41	4616	0.869 ug/l #		35
49) 1,4-Dioxane	9.19	88	34	0.378 ug/l #		23
51) 4-Methyl-2-Pentanone	9.98	43	7083	1.143 ug/l		95
54) cis-1,3-Dichloropropene	9.90	75	35303	4.764 ug/l #		72
56) Ethyl methacrylate	10.54	69	1836	0.252 ug/l #		1
57) 1,3-Dichloropropane	10.76	76	2516	0.301 ug/l #		43
59) 2-Hexanone	10.76	43	39547	8.511 ug/l #		55
71) Bromoform	12.40	173	764	0.286 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	171722	30.409 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	171722	107.008 ug/l #		6
95) Naphthalene	15.14	128	3324	Below Cal #		72
96) 1,2,3-Trichlorobenzene	15.30	180	516	1.098 ug/l		64

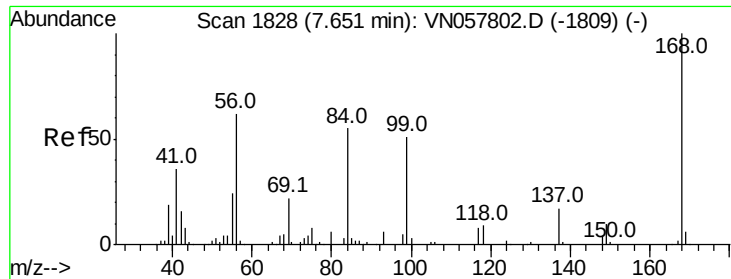
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

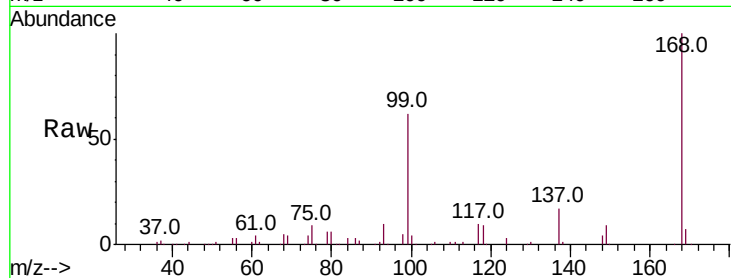
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 312799

Ion Ratio Lower Upper

168 100

99 62.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

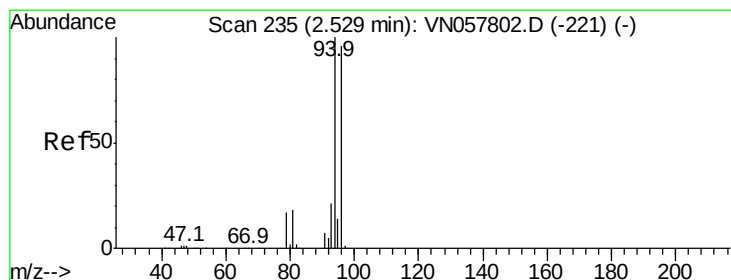
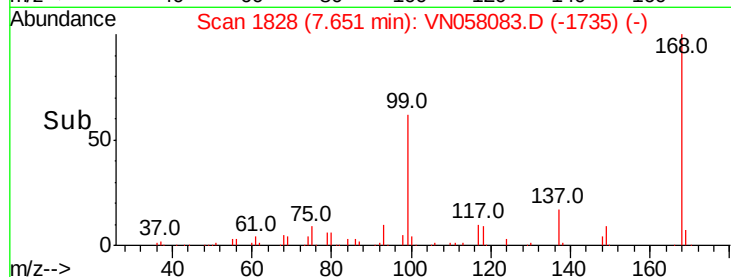
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN058083.D

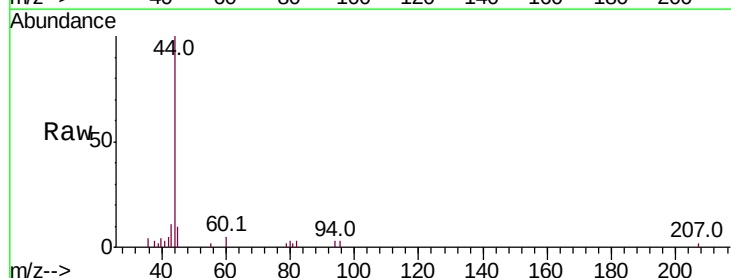
Acq: 15 Sep 2019 12:04

Tgt Ion: 94 Resp: 502

Ion Ratio Lower Upper

94 100

96 96.5 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

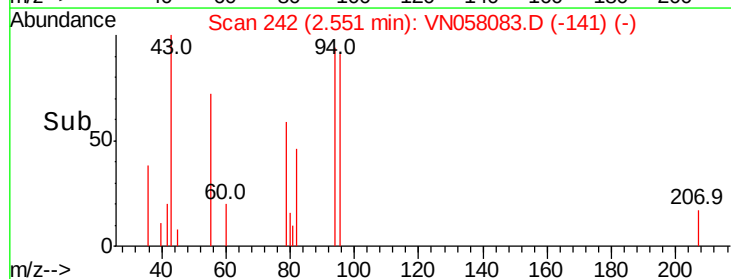
300

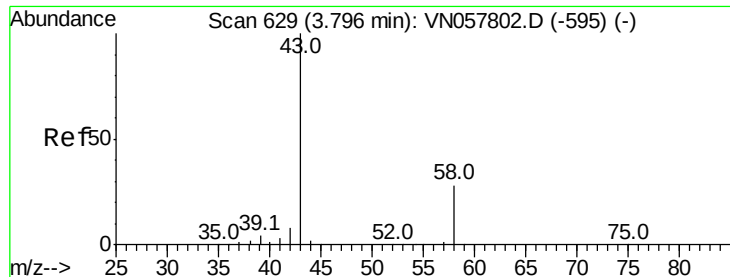
200

100

0

Time-->





#16

Acetone

Concen: 11.384 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

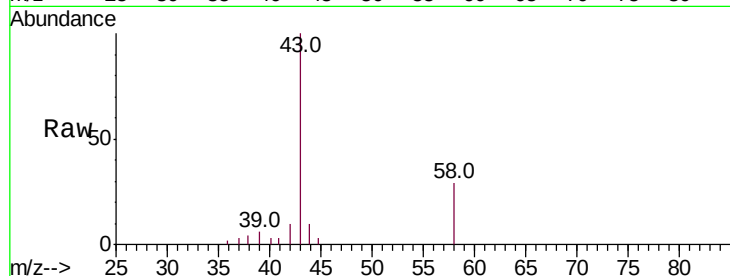
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 23643

Ion Ratio Lower Upper

43 100

58 29.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058083.D (-536) (-)

Ion 58.00 (57.70 to 58.70): VN058083.D (-536) (-)

3.80

8000

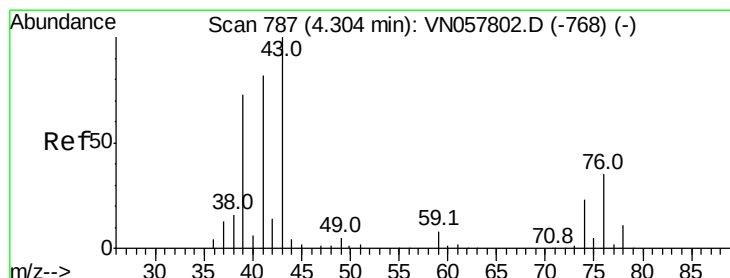
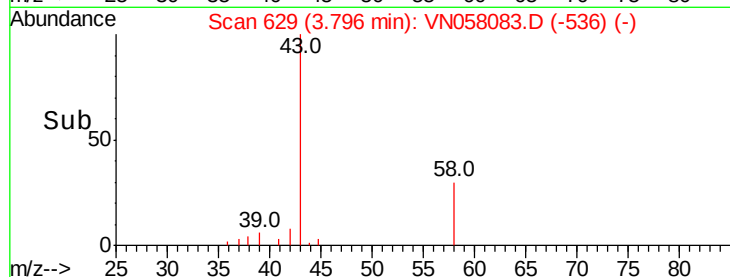
6000

4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 0.543 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.00 min

Lab File: VN058083.D

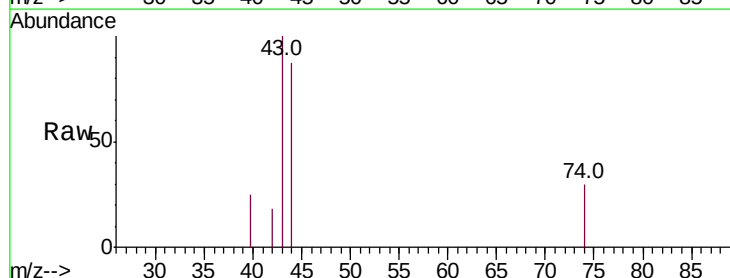
Acq: 15 Sep 2019 12:04

Tgt Ion: 43 Resp: 3009

Ion Ratio Lower Upper

43 100

74 31.9 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN058083.D (-694) (-)

Ion 74.00 (73.70 to 74.70): VN058083.D (-694) (-)

4.31

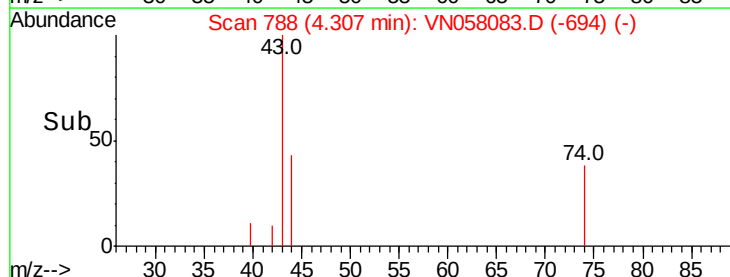
1500

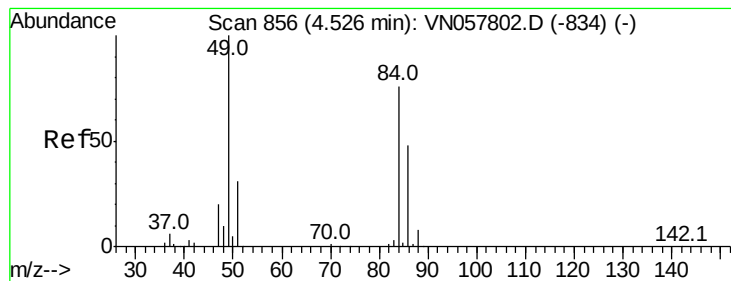
1000

500

0

Time--> 4.25 4.30 4.35





#20

Methylene Chloride

Concen: 2.134 ug/l

RT: 4.53 min Scan# 857

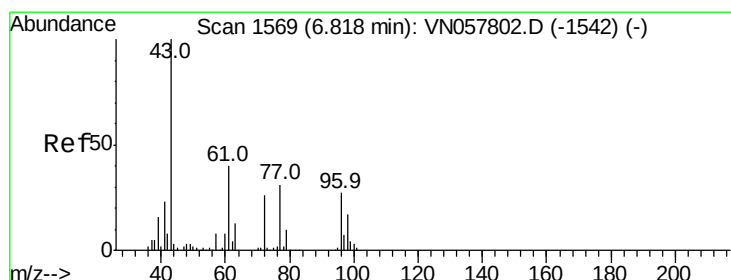
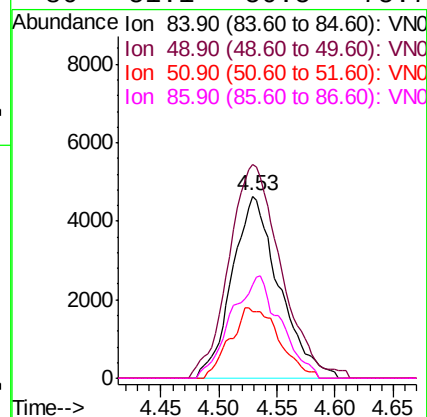
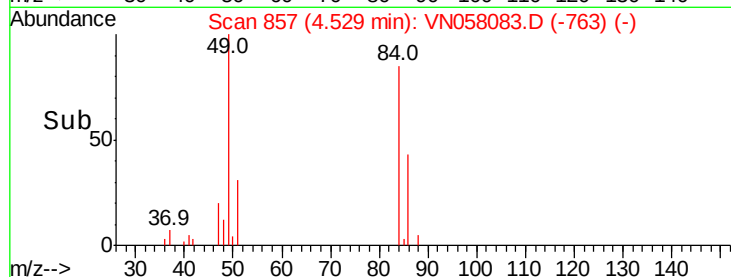
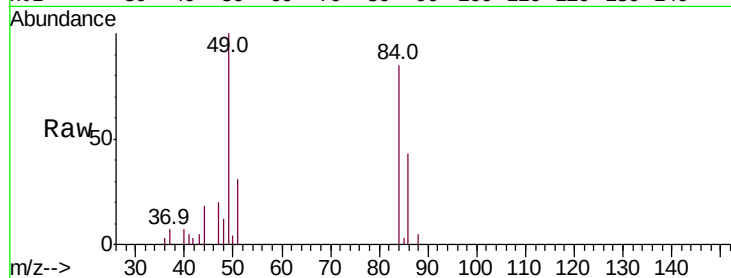
Delta R.T. 0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	13095
Ion	Ratio	Lower	Upper
84	100		
49	113.9	104.8	157.2
51	36.6	33.0	49.4
86	51.1	50.5	75.7



#25

2-Butanone

Concen: 0.459 ug/l

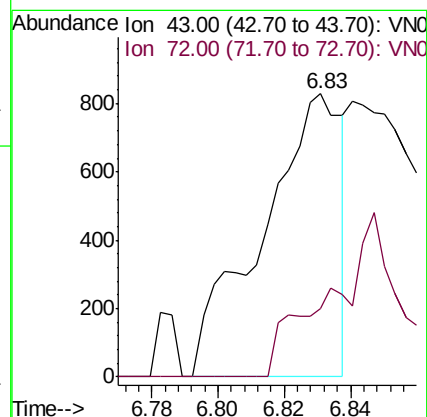
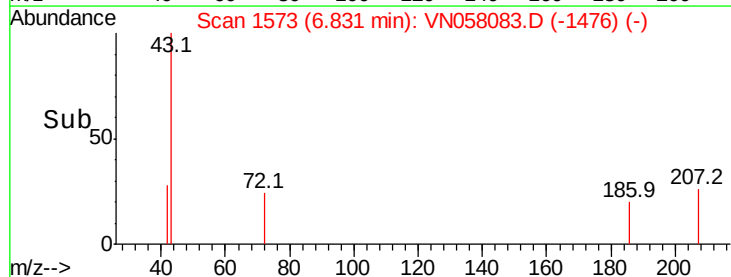
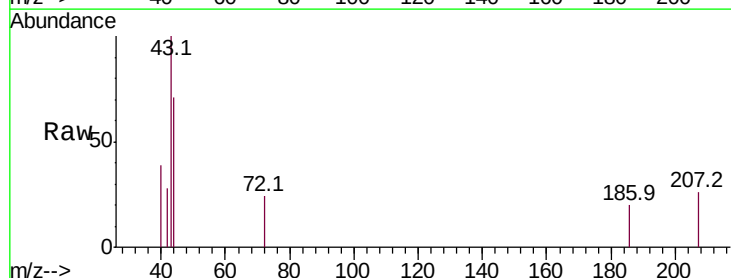
RT: 6.83 min Scan# 1573

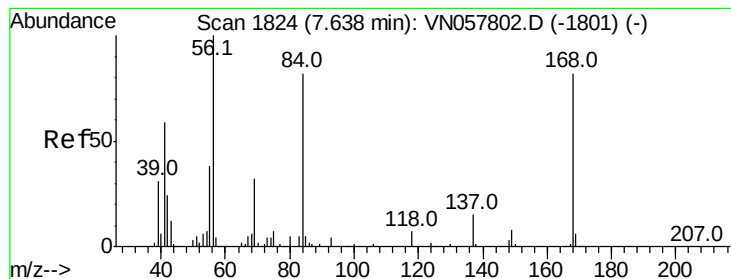
Delta R.T. 0.01 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Tgt Ion:	43	Resp:	1380
Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.6	30.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

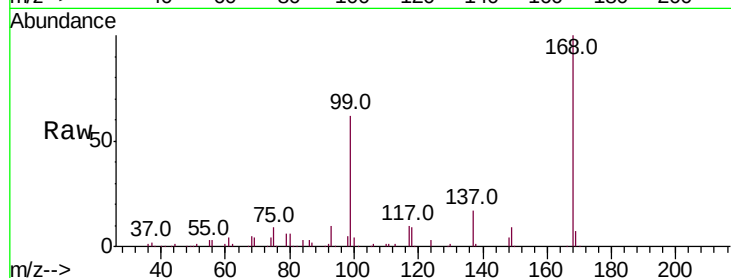
Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

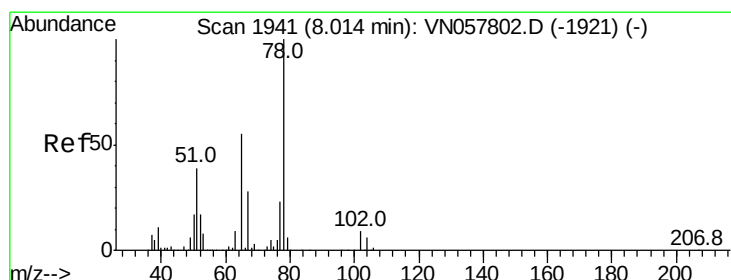
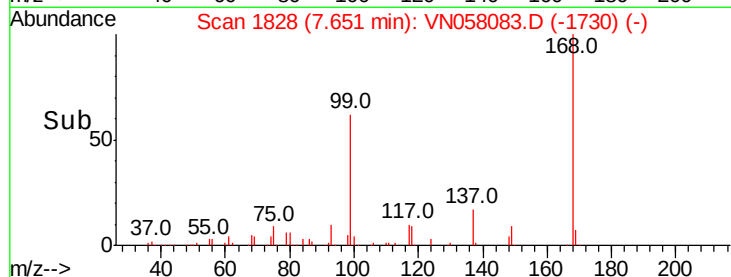
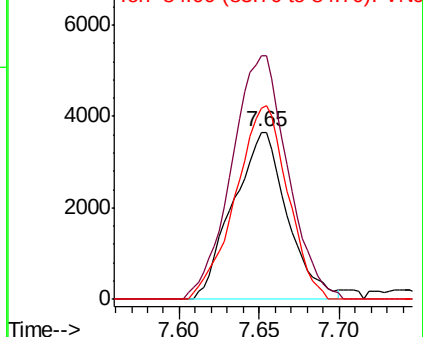
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 8514

Ion	Ratio	Lower	Upper
56	100		
69	141.6	25.9	38.9#
84	114.2	65.6	98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 54.651 ug/l

RT: 8.01 min Scan# 1941

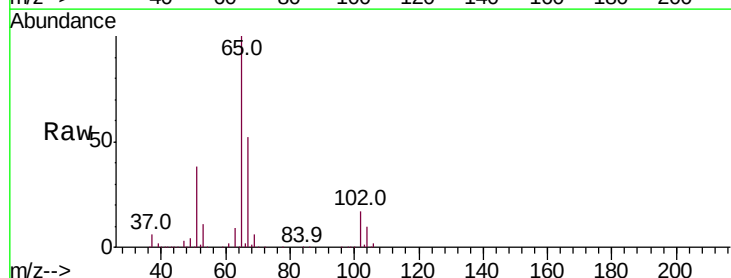
Delta R.T. 0.00 min

Lab File: VN058083.D

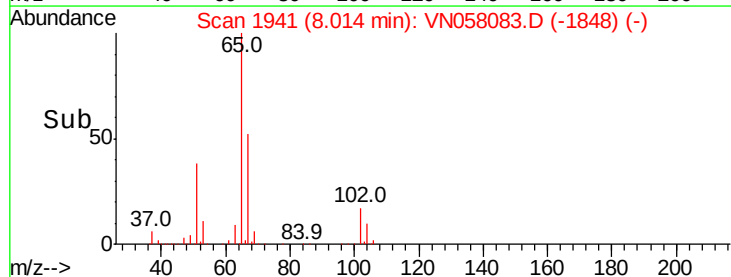
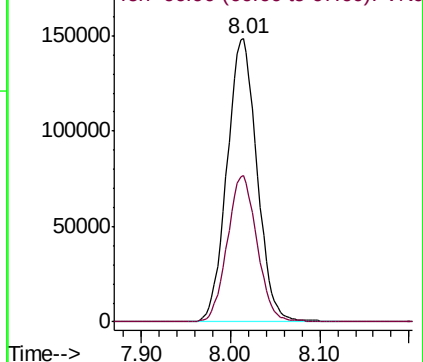
Acq: 15 Sep 2019 12:04

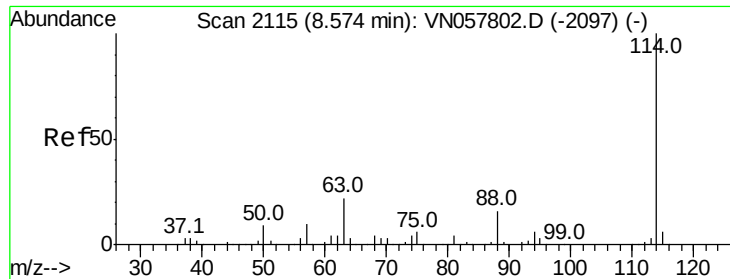
Tgt Ion: 65 Resp: 346244

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.0



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

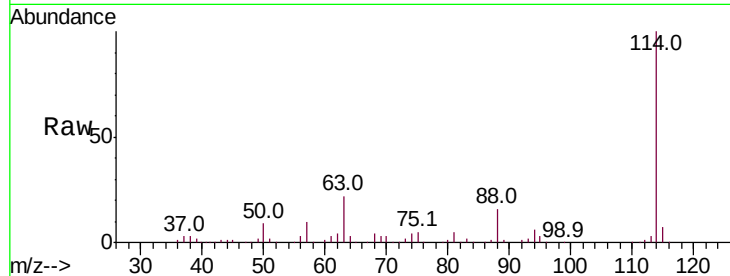




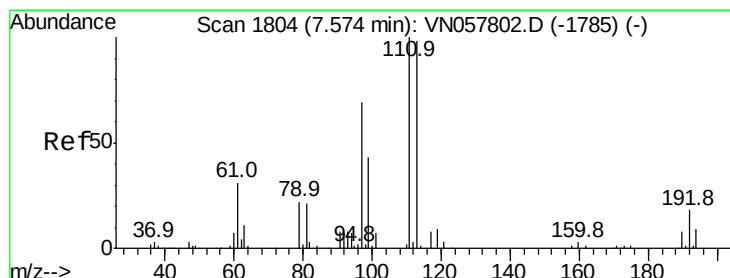
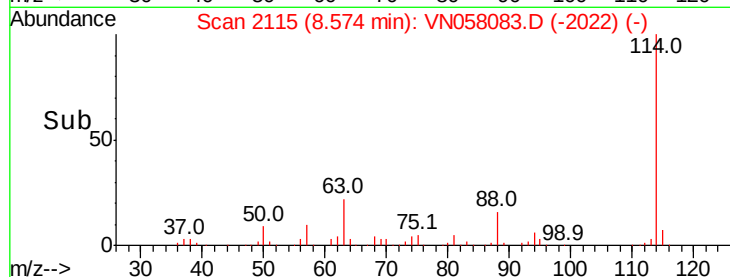
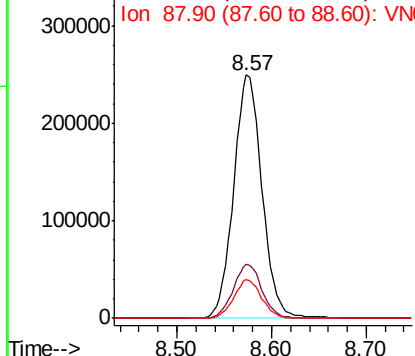
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058083.D
 Acq: 15 Sep 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 519910
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 15.8 0.0 31.4

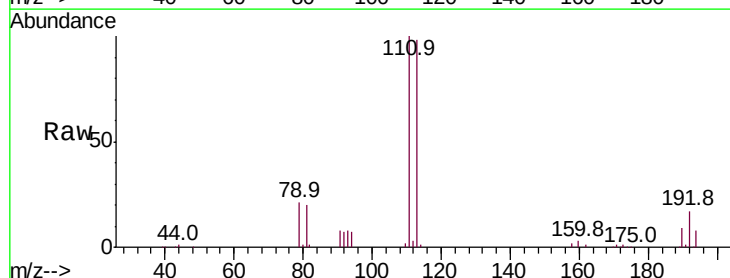


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

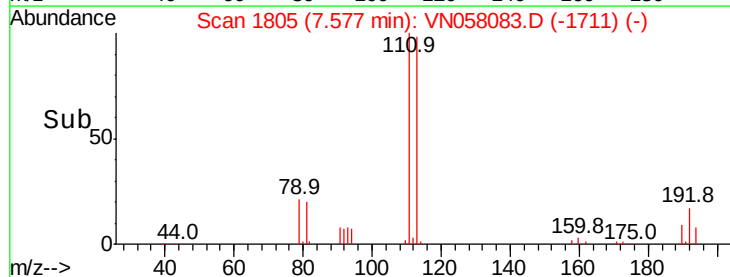
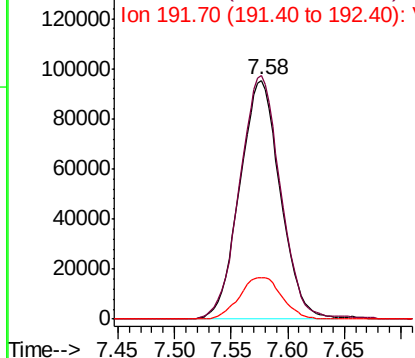


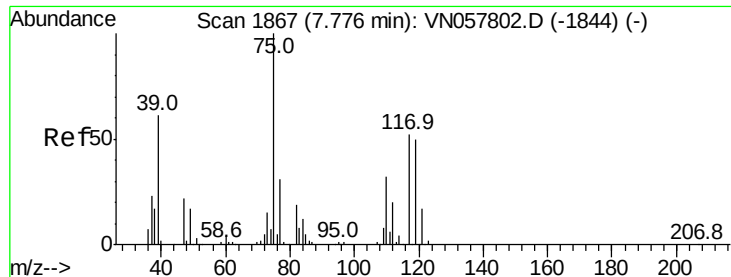
#35
 Dibromofluoromethane
 Concen: 49.480 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058083.D
 Acq: 15 Sep 2019 12:04

Tgt Ion:113 Resp: 237432
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.3 121.9
 192 18.3 14.6 22.0



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: 4.523 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

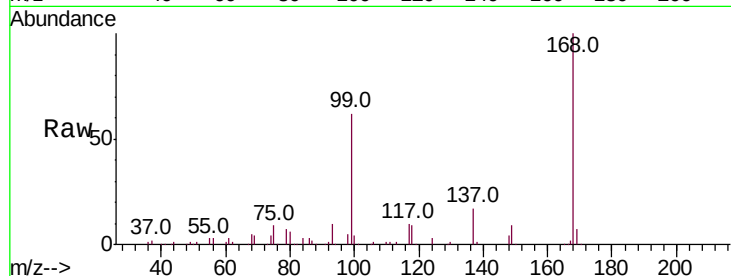
Tot Ion: 75 Resp: 27270

Ion Ratio Lower Upper

75 100

110 9.6 16.3 48.9#

77 0.0 25.0 37.4#

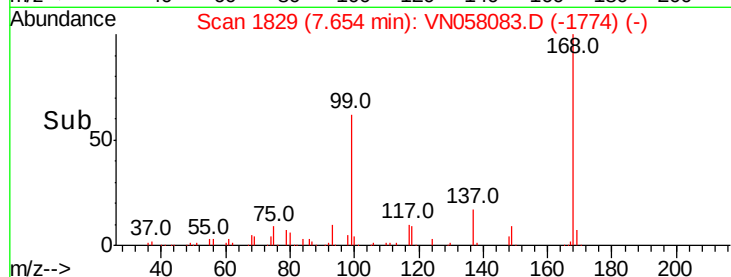


Abundance Ion 74.90 (74.60 to 75.60): VN058083.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN058083.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN058083.D (-1774) (-)

Time-->



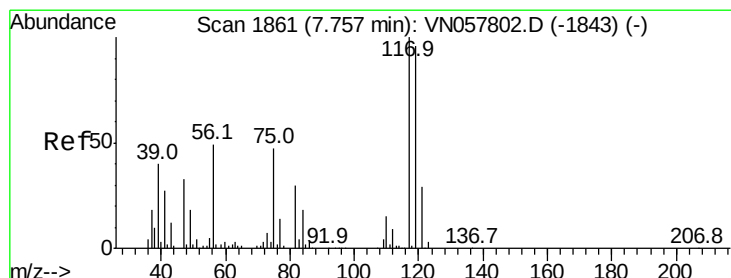
Abundance

Ion 74.90 (74.60 to 75.60): VN058083.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN058083.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN058083.D (-1774) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.495 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

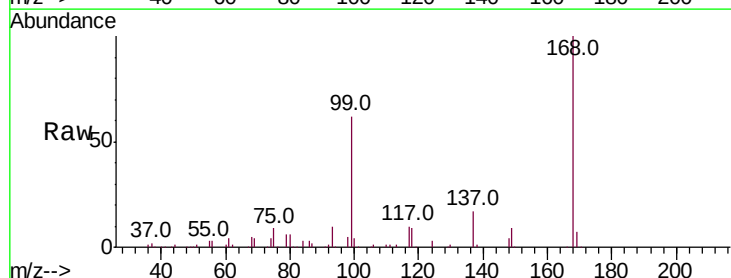
Tgt Ion: 117 Resp: 30249

Ion Ratio Lower Upper

117 100

119 4.9 76.9 115.3#

121 0.0 23.4 35.2#

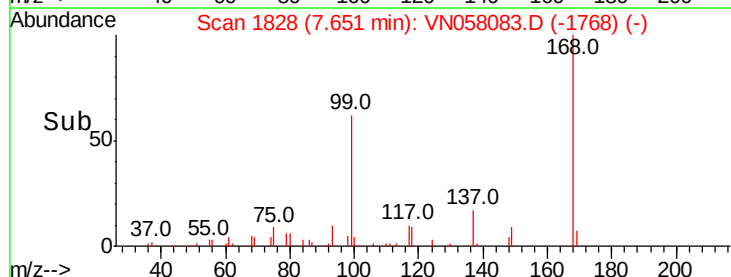


Abundance Ion 116.80 (116.50 to 117.50): VN058083.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN058083.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN058083.D (-1768) (-)

Time-->



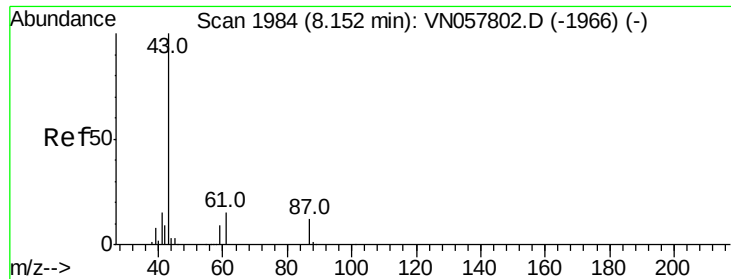
Abundance

Ion 116.80 (116.50 to 117.50): VN058083.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN058083.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN058083.D (-1768) (-)

Time-->



#43

Isopropyl Acetate

Concen: 6.874 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :

MSVOA_N

ClientSampleId :

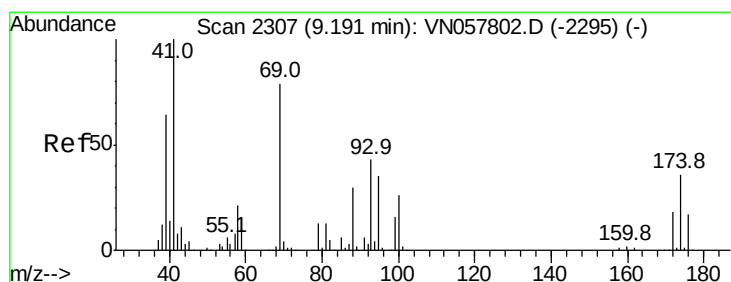
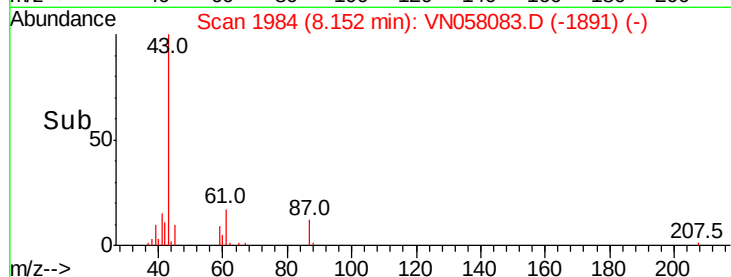
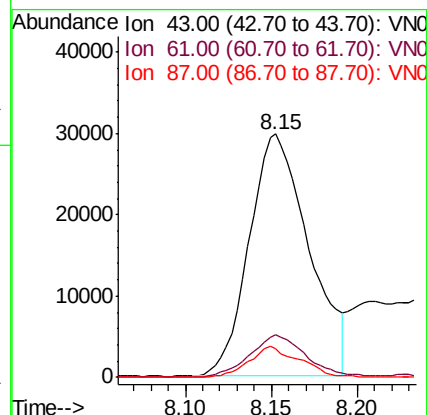
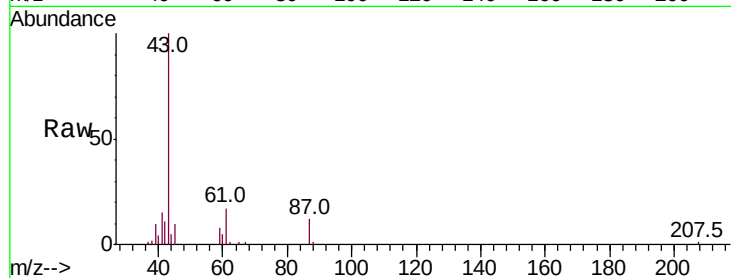
Tot Ion: 43 Resp: 72015

Ion Ratio Lower Upper

43 100

61 16.4 20.1 30.1#

87 10.8 9.5 14.3



#48

Methyl methacrylate

Concen: 0.869 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

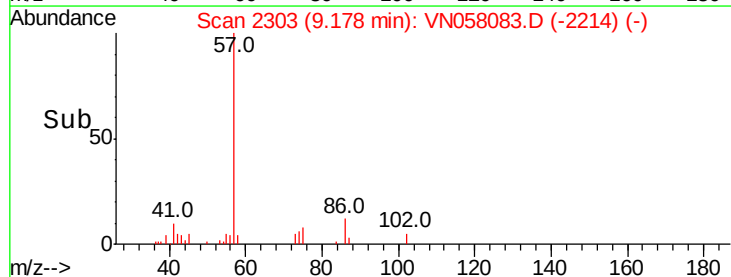
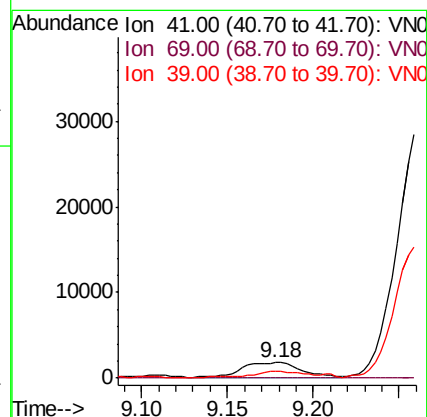
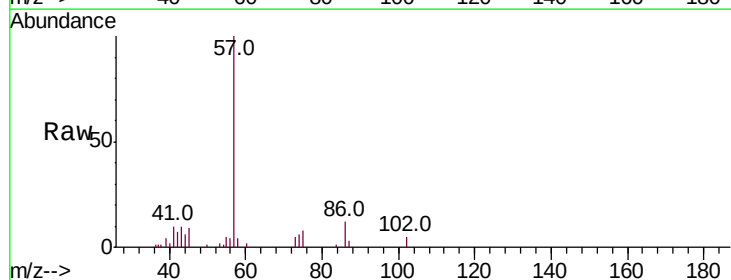
Tgt Ion: 41 Resp: 4616

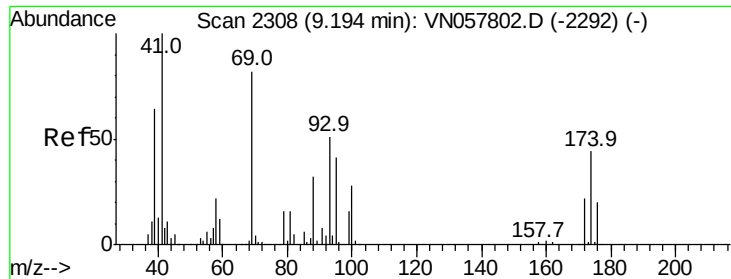
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 38.3 52.7 79.1#

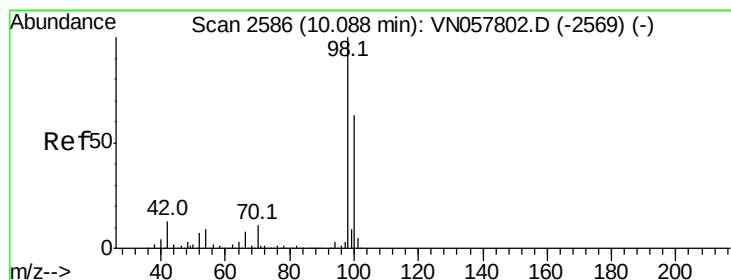
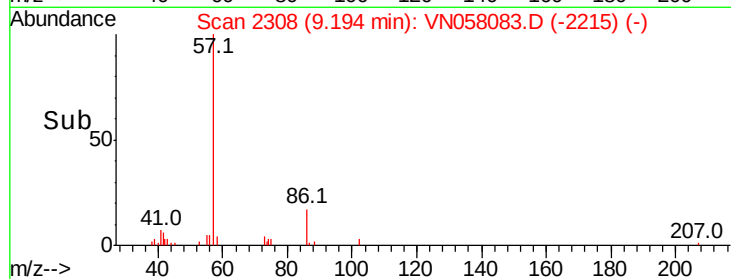
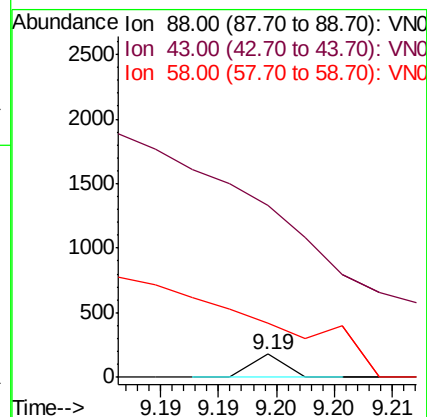
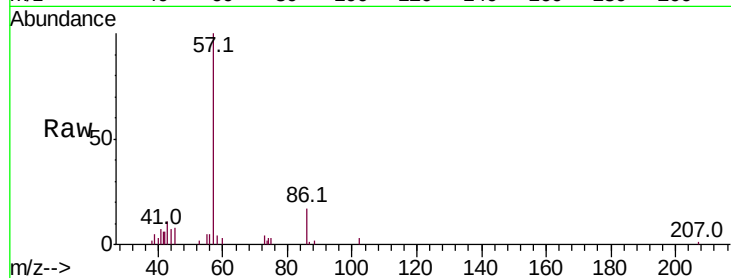




#49
1,4-Dioxane
Concen: 0.378 ug/l
RT: 9.19 min Scan# 2308
Delta R.T. 0.00 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

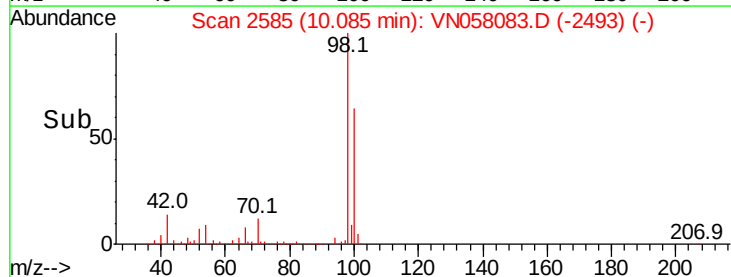
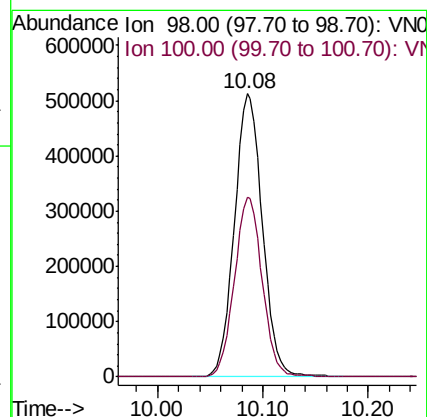
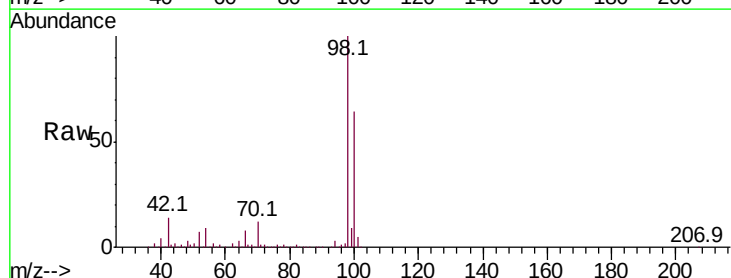
Instrument :
MSVOA_N
ClientSampled :

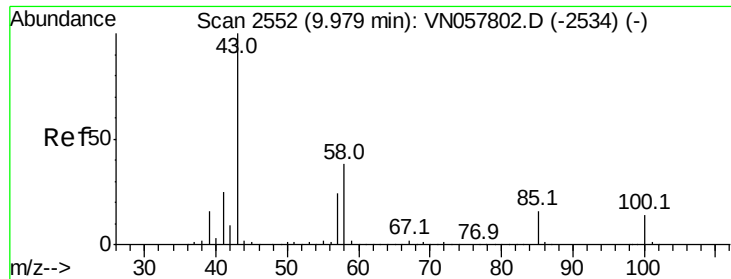
Tot Ion: 88 Resp: 34
Ion Ratio Lower Upper
88 100
43 0.0 28.5 42.7#
58 0.0 55.8 83.6#



#50
Toluene-d8
Concen: 50.624 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

Tgt Ion: 98 Resp: 943155
Ion Ratio Lower Upper
98 100
100 63.0 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 1.143 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

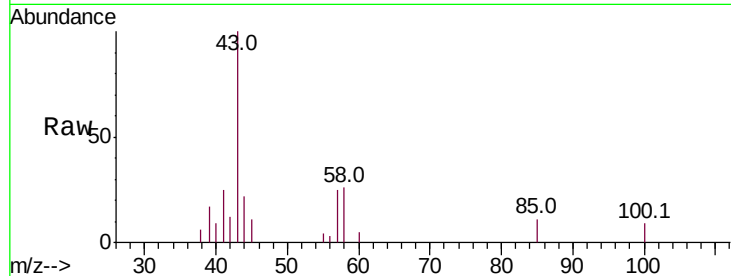
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 7083

Ion Ratio Lower Upper

43 100

58 40.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)

25000

20000

15000

10000

5000

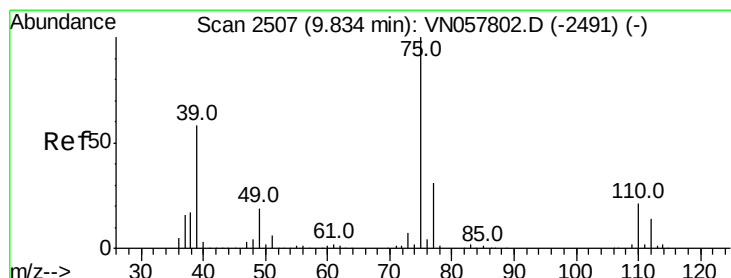
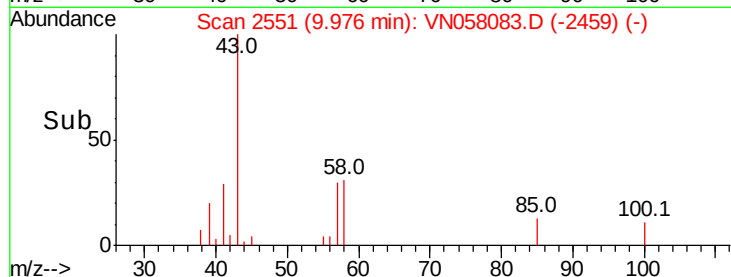
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.764 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

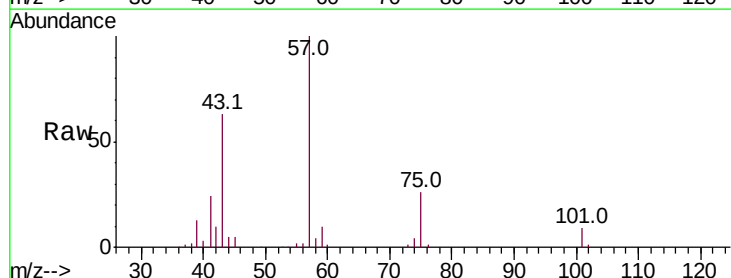
Tgt Ion: 75 Resp: 35303

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 48.0 46.2 69.4



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

25000

20000

15000

10000

5000

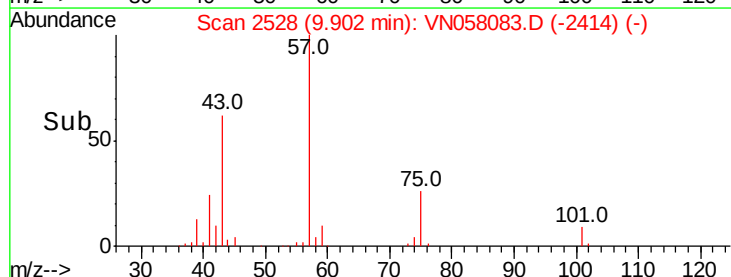
0

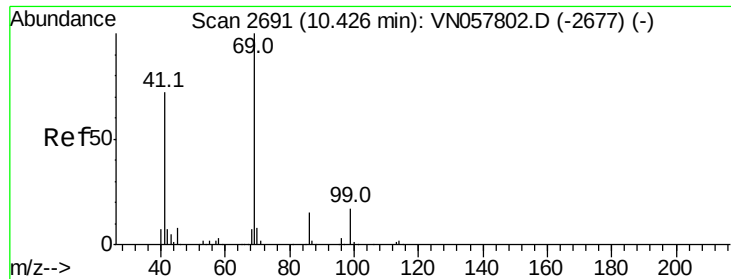
9.85

9.90

9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.252 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :

MSVOA_N

ClientSampled :

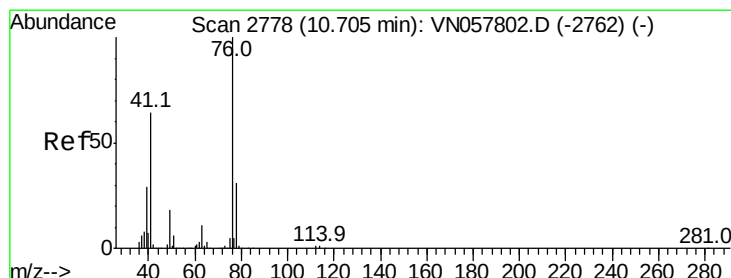
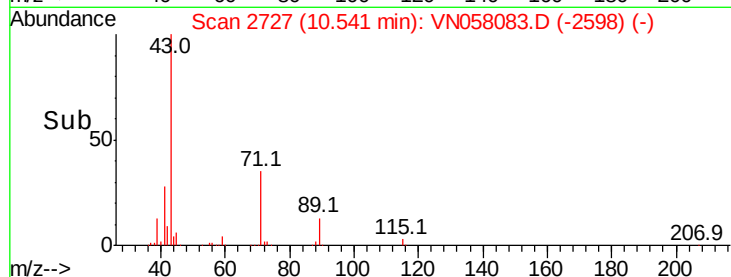
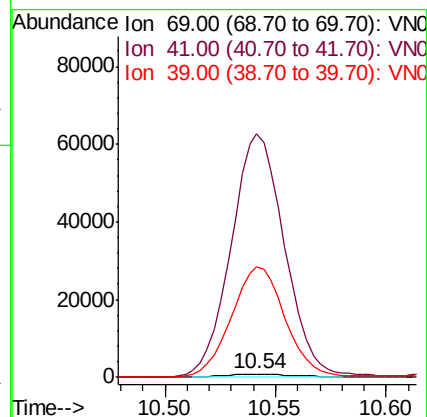
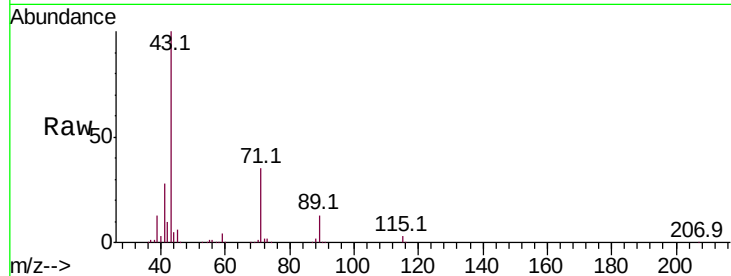
Tot Ion: 69 Resp: 1836

Ion Ratio Lower Upper

69 100

41 5794.9 56.7 85.1#

39 2638.1 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.301 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN058083.D

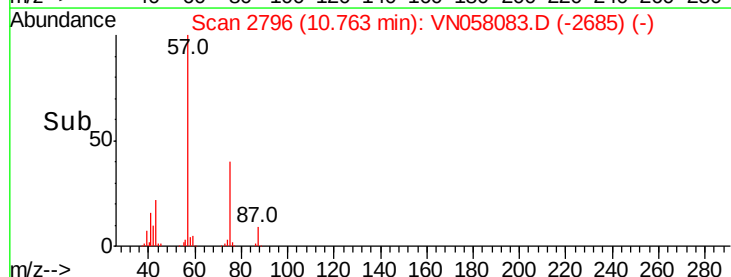
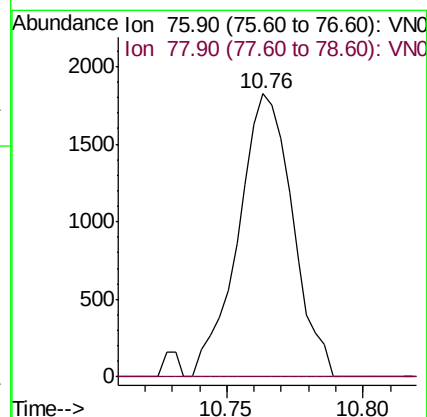
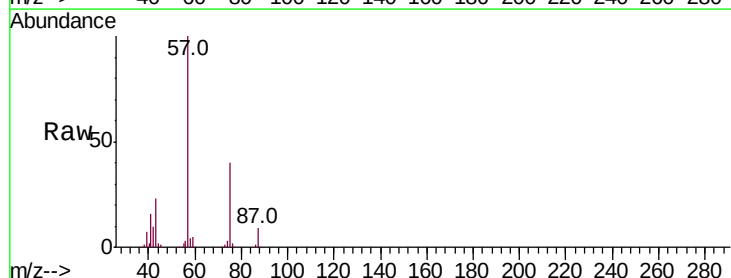
Acq: 15 Sep 2019 12:04

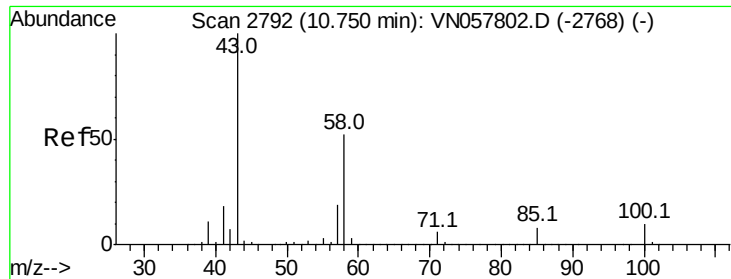
Tgt Ion: 76 Resp: 2516

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#





#59

2-Hexanone

Concen: 8.511 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :

MSVOA_N

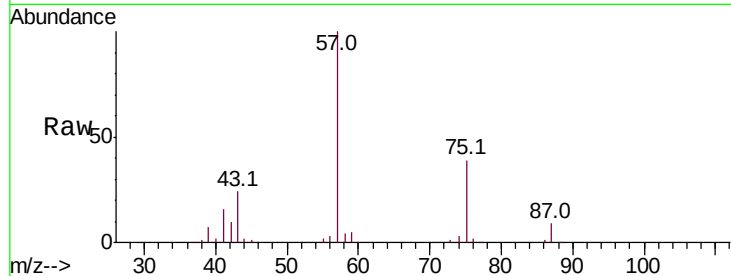
ClientSampleId :

Tot Ion: 43 Resp: 39547

Ion Ratio Lower Upper

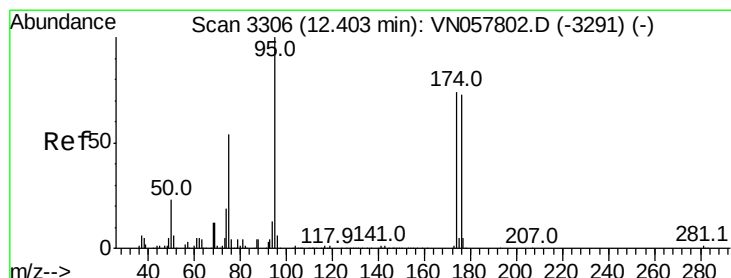
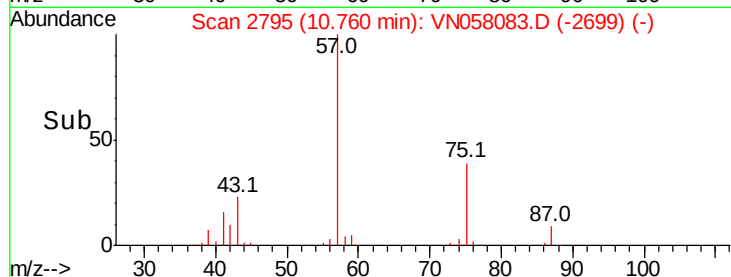
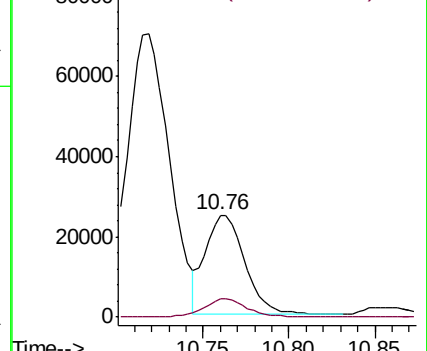
43 100

58 20.1 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 44.050 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058083.D

Acq: 15 Sep 2019 12:04

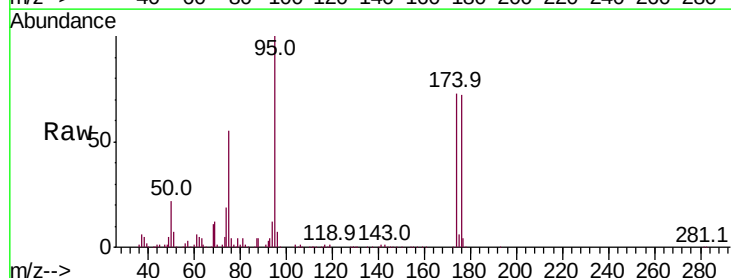
Tgt Ion: 95 Resp: 312749

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.2

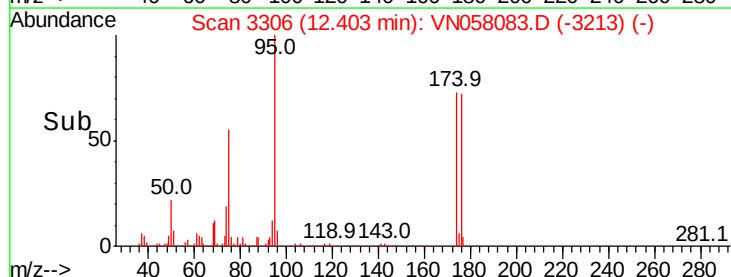
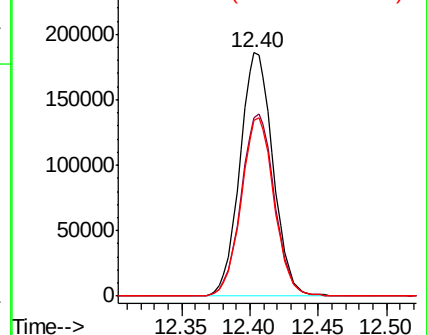
176 72.7 0.0 146.0

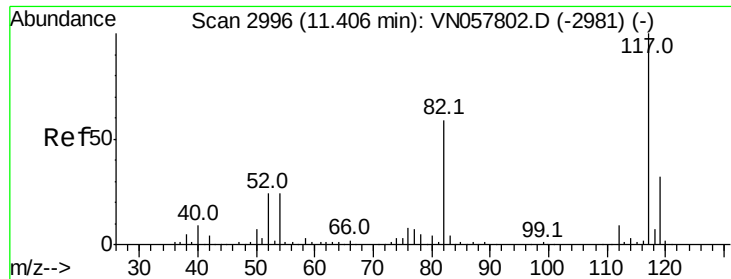


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

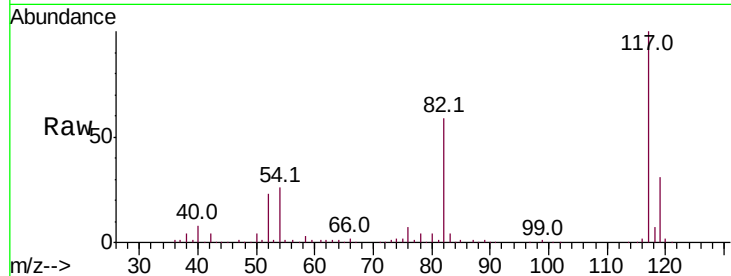




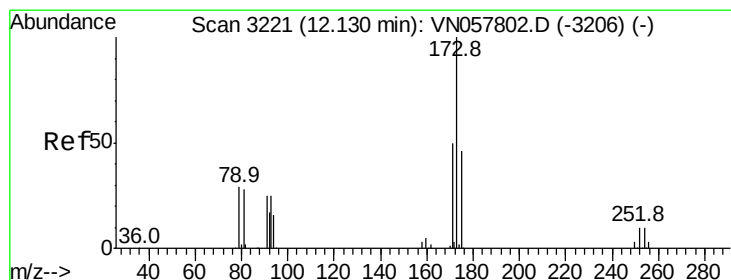
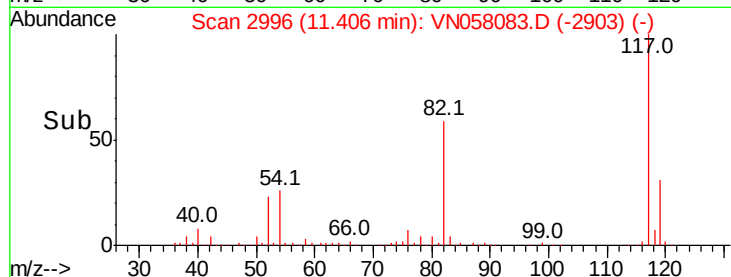
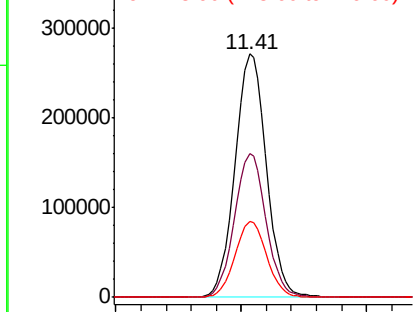
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 472127
Ion Ratio Lower Upper
117 100
82 59.0 47.2 70.8
119 31.3 25.3 37.9

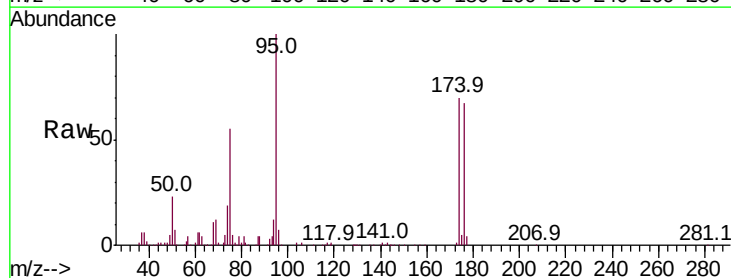


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

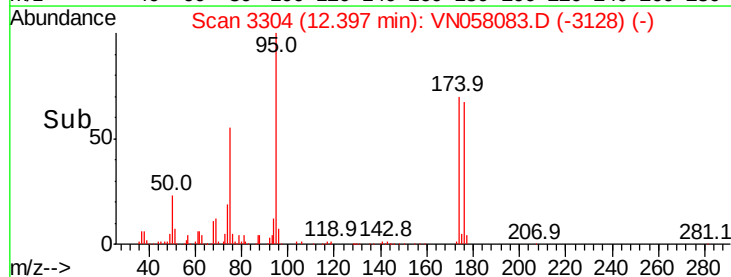
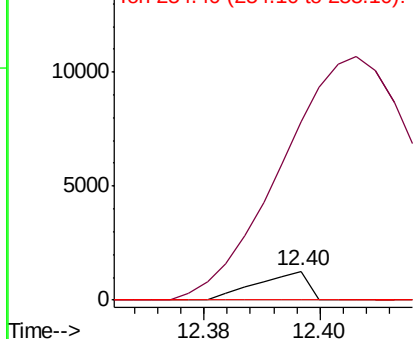


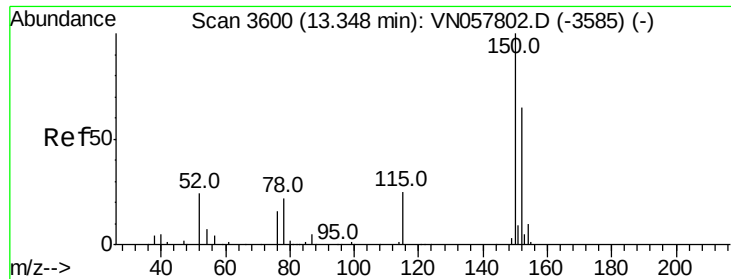
#71
Bromoform
Concen: 0.286 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

Tgt Ion:173 Resp: 764
Ion Ratio Lower Upper
173 100
175 2010.6 23.5 70.6#
254 0.0 0.1 0.1#



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: VN058083.D

Acq: 15 Sep 2019 12:04

Instrument :

MSVOA_N

ClientSampled :

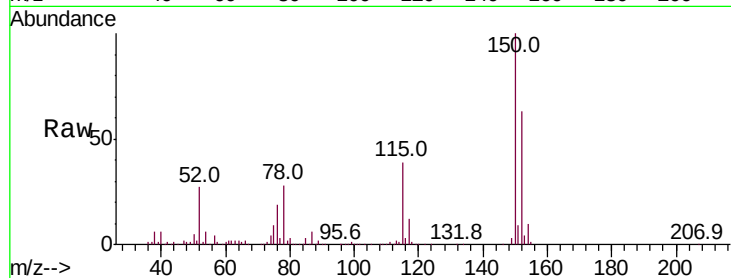
Tot Ion:152 Resp: 249634

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

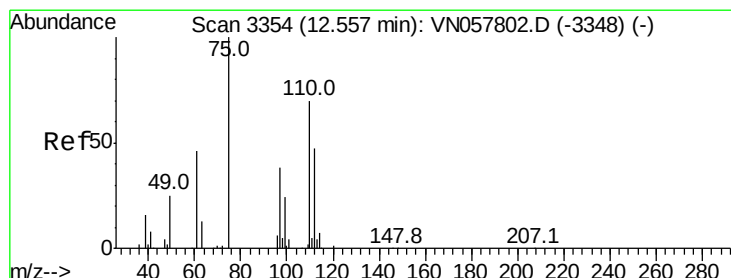
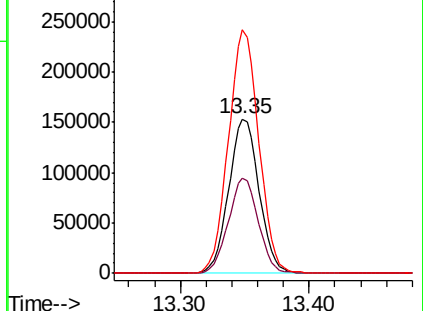
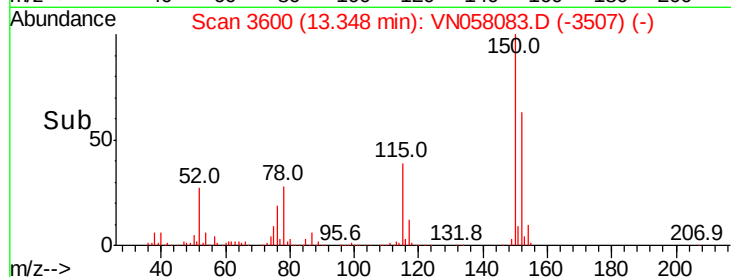
150 157.7 0.0 352.4



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: 30.409 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058083.D

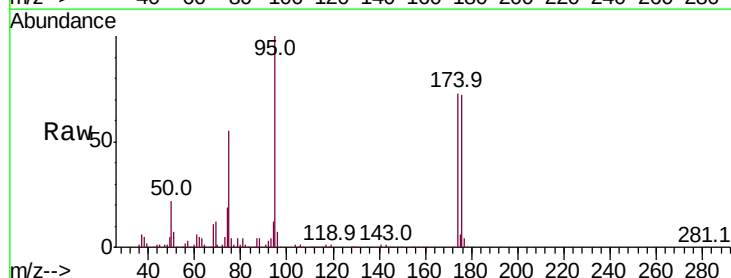
Acq: 15 Sep 2019 12:04

Tgt Ion: 75 Resp: 171722

Ion Ratio Lower Upper

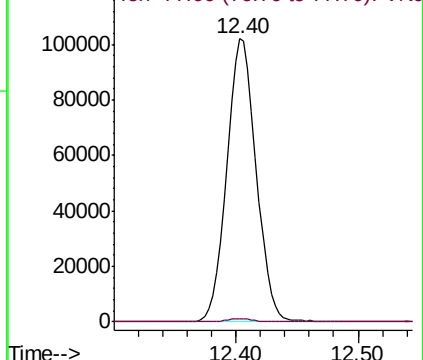
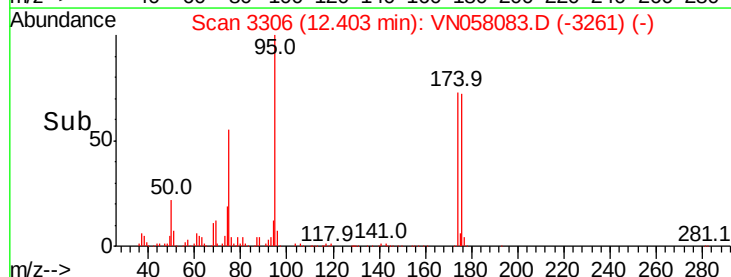
75 100

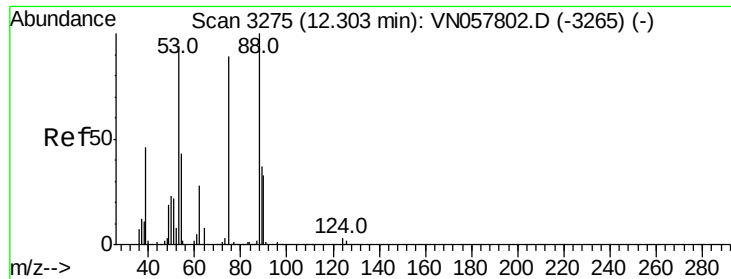
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

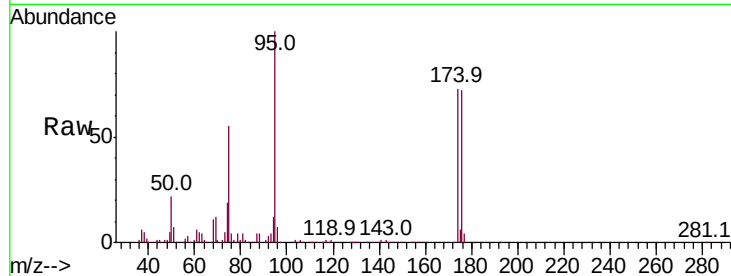




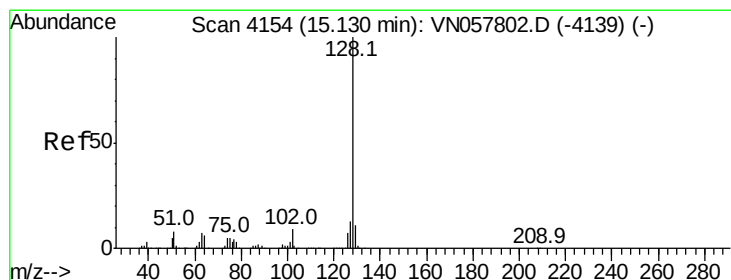
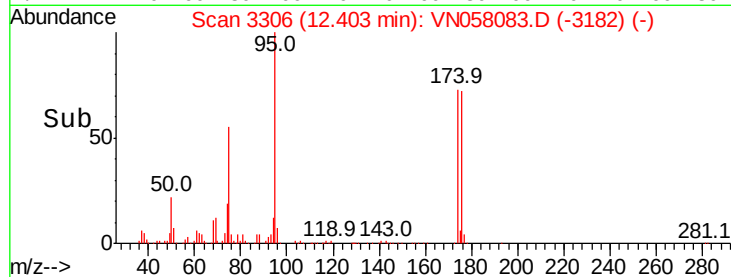
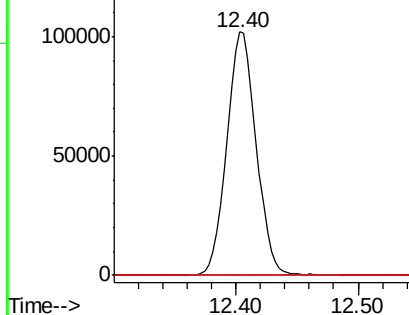
#81
trans-1,4-Dichloro-2-butene
Concen: 107.008 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 171722
Ion Ratio Lower Upper
75 100
53 0.0 88.4 132.6#
89 0.0 35.3 52.9#

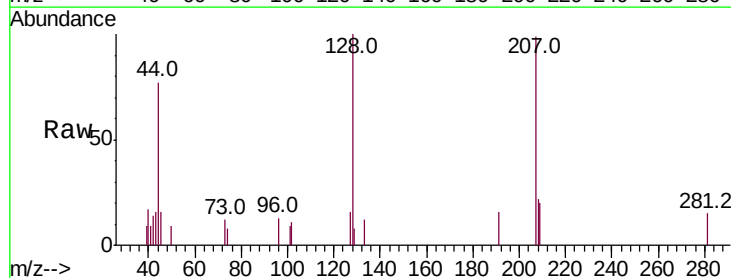


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

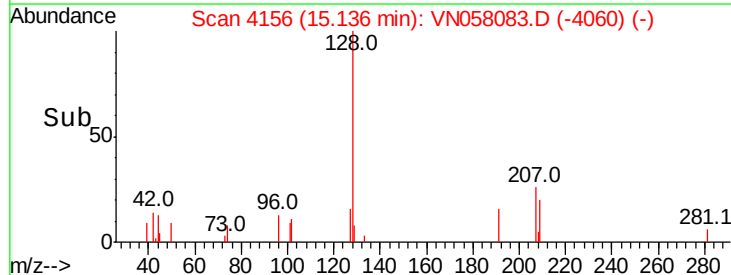
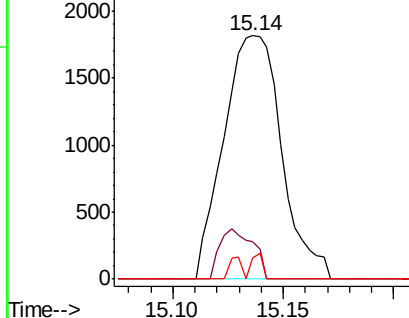


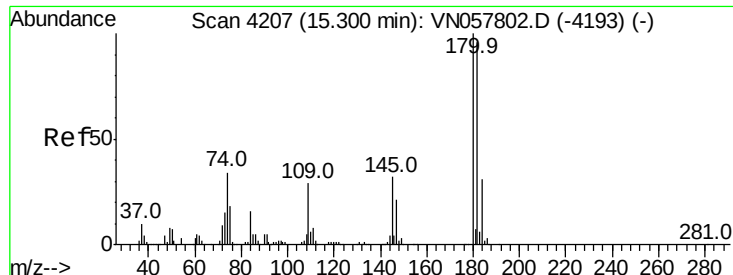
#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN058083.D
Acq: 15 Sep 2019 12:04

Tgt Ion: 128 Resp: 3324
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 2.0 8.6 12.8#



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

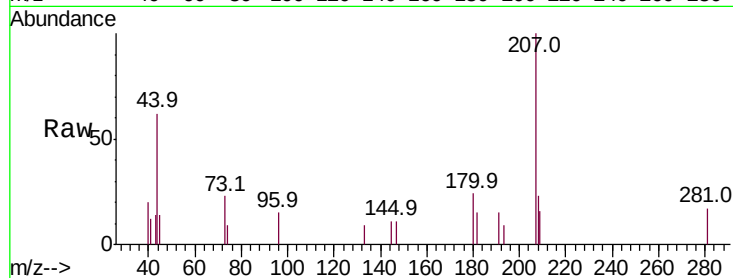




#96
 1,2,3-Trichlorobenzene
 Concen: 1.098 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN058083.D
 Acq: 15 Sep 2019 12:04

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	51.4	48.3	144.8
145	29.8	16.3	48.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

