

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121718\
 Data File : VN052935.D
 Acq On : 17 Dec 2018 18:45
 Operator : MD\SY
 Sample : PB115729ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#05

Quant Time: Dec 18 04:46:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1338343	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2088577	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1797468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	701292	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	694197	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
35) Dibromofluoromethane	7.59	113	460467	39.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.00%	
50) Toluene-d8	10.09	98	2508986	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
62) 4-Bromofluorobenzene	12.40	95	787270	45.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.92%	

Target Compounds

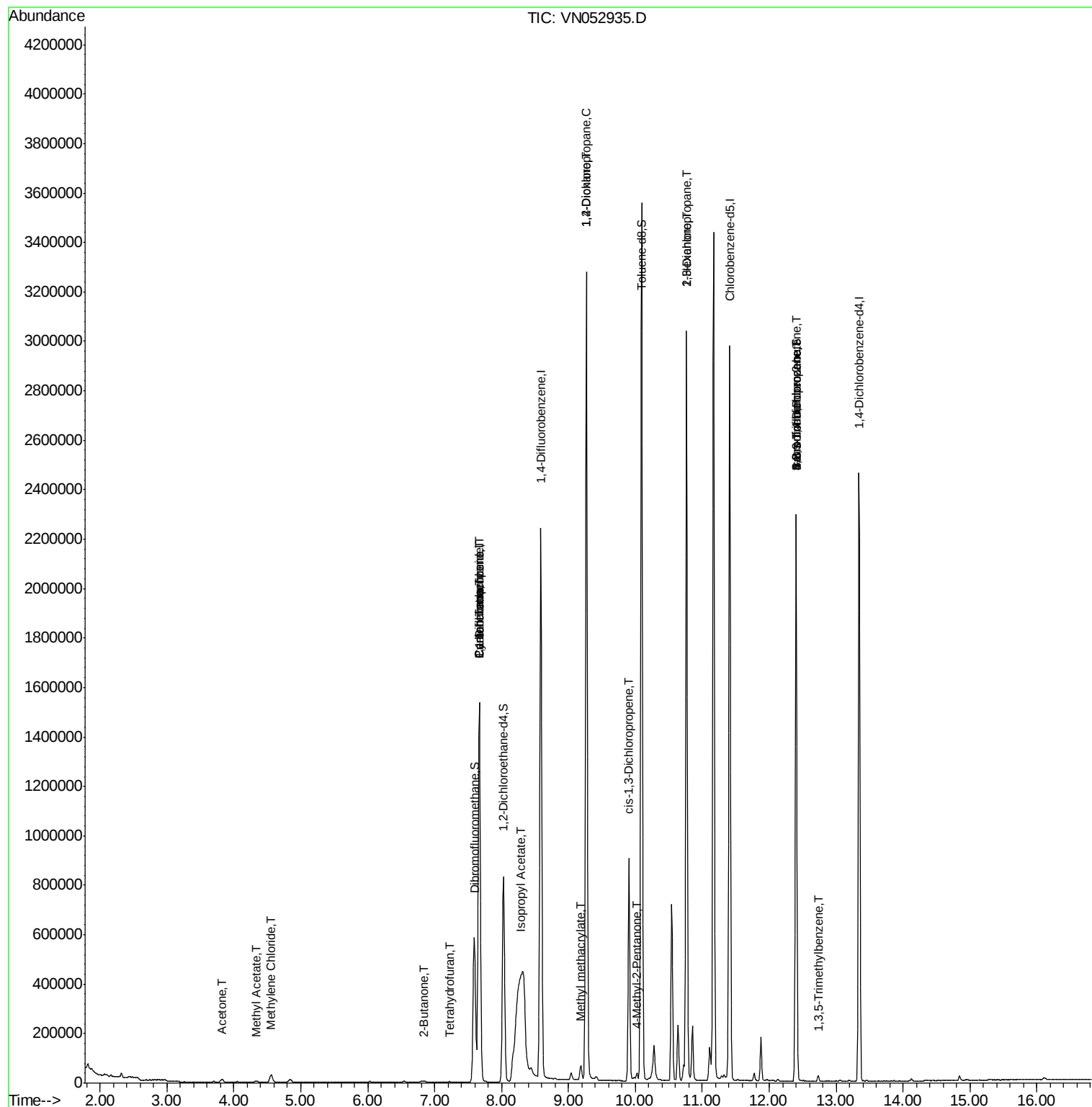
					Qvalue	
16) Acetone	3.82	43	22180	6.940	ug/l	98
18) Methyl Acetate	4.34	43	9070	0.773	ug/l	99
20) Methylene Chloride	4.56	84	23458	1.631	ug/l	96
25) 2-Butanone	6.85	43	3458	0.697	ug/l #	88
29) Tetrahydrofuran	7.22	42	1376	0.406	ug/l #	73
31) Cyclohexane	7.66	56	22404	0.353	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	91373	4.751	ug/l #	49
38) Carbon Tetrachloride	7.67	117	118863	6.714	ug/l #	16
43) Isopropyl Acetate	8.28	43	747435	31.552	ug/l #	53
45) 1,2-Dichloropropane	9.27	63	4239	0.280	ug/l #	44
48) Methyl methacrylate	9.18	41	20553	1.978	ug/l #	12
49) 1,4-Dioxane	9.27	88	434	3.680	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21916	2.018	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	170129	7.803	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	31924	1.492	ug/l #	42
59) 2-Hexanone	10.76	43	429564	57.705	ug/l #	49
71) Bromoform	12.40	173	4910	0.557	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	369212	35.684	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9676	0.229	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	369212	114.634	ug/l #	12

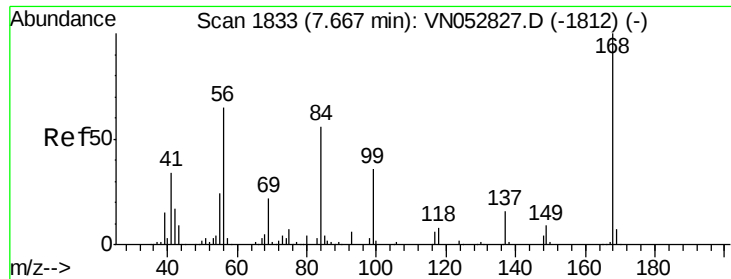
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Dec 13 01:08:35 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

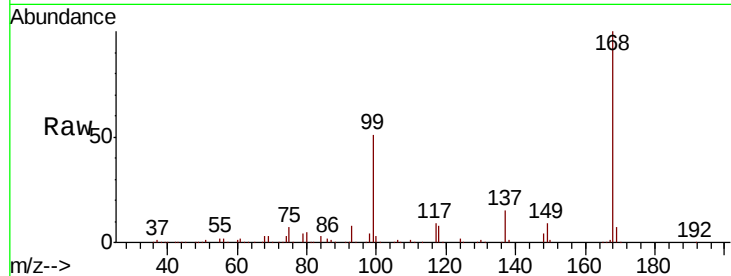
PB115729ZHE#05

Tot Ion:168 Resp: 1338343

Ion Ratio Lower Upper

168 100

99 50.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

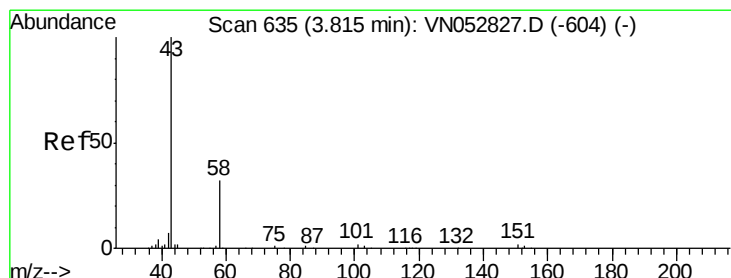
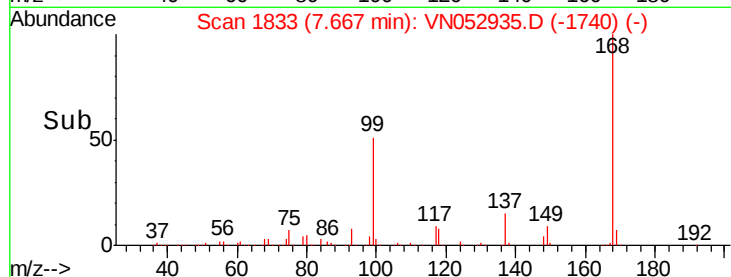
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 6.940 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052935.D

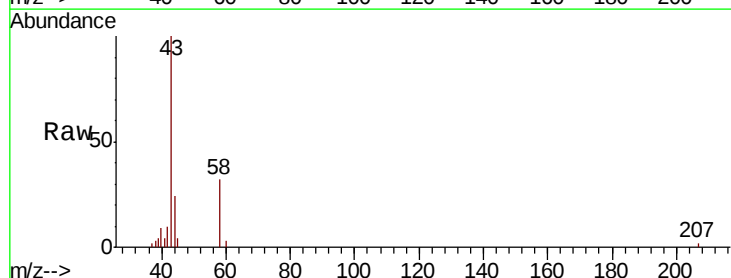
Acq: 17 Dec 2018 18:45

Tgt Ion: 43 Resp: 22180

Ion Ratio Lower Upper

43 100

58 32.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

10000

8000

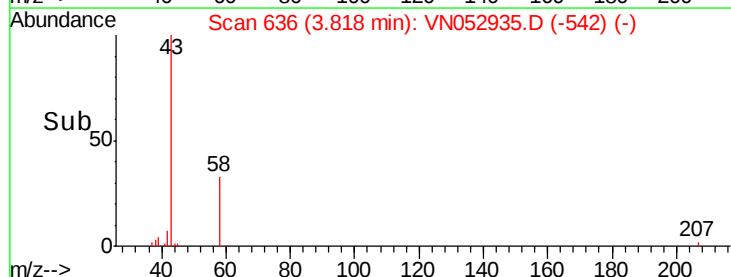
6000

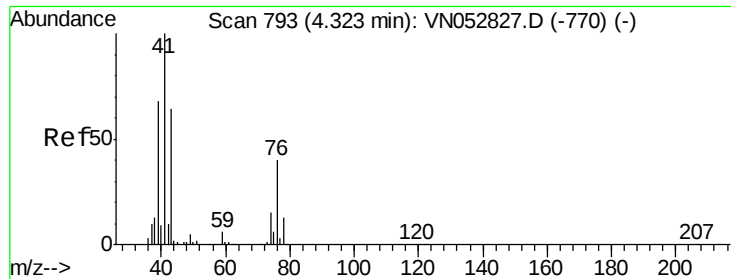
4000

2000

0

Time-->

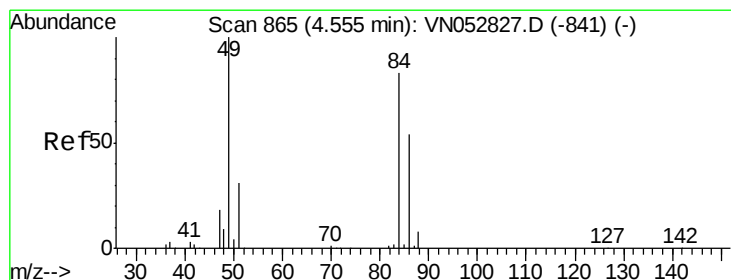
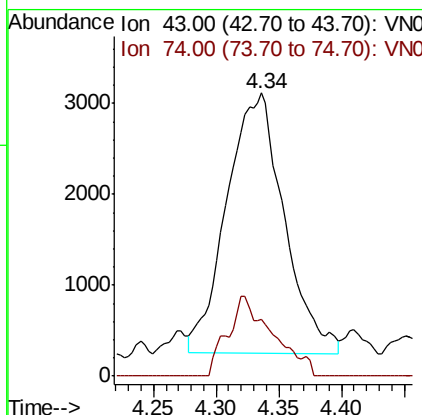
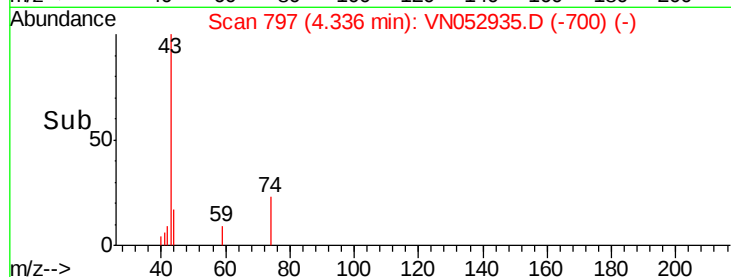
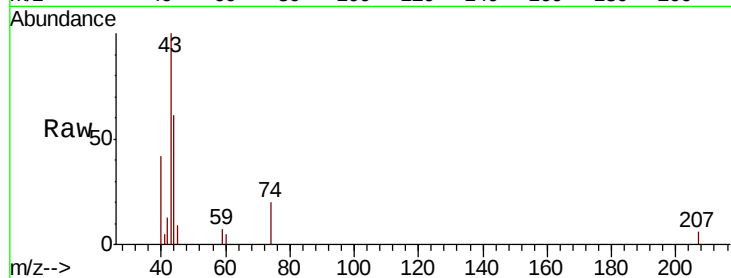




#18
Methyl Acetate
Concen: 0.773 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

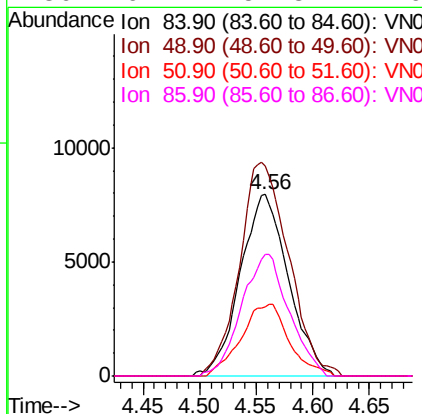
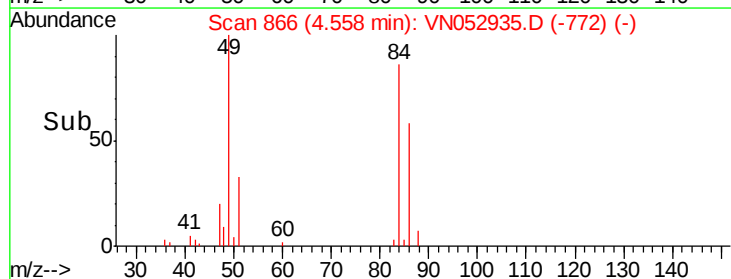
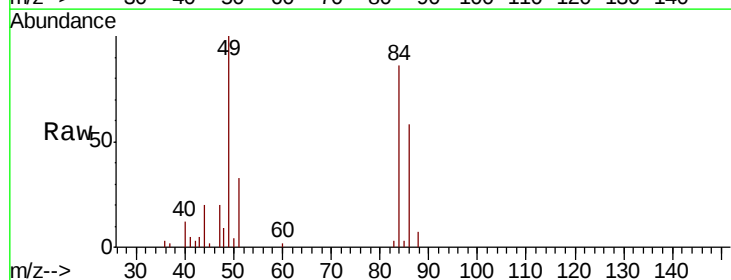
Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#05

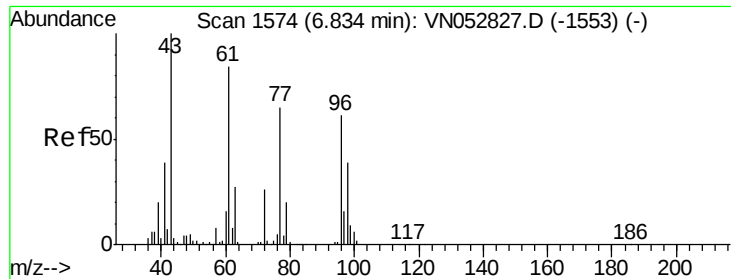
Tot Ion: 43 Resp: 9070
Ion Ratio Lower Upper
43 100
74 24.3 19.2 28.8



#20
Methylene Chloride
Concen: 1.631 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

Tgt Ion: 84 Resp: 23458
Ion Ratio Lower Upper
84 100
49 116.1 96.8 145.2
51 38.2 29.9 44.9
86 67.2 51.8 77.6

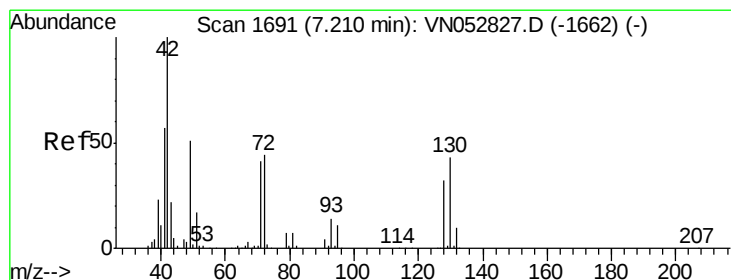
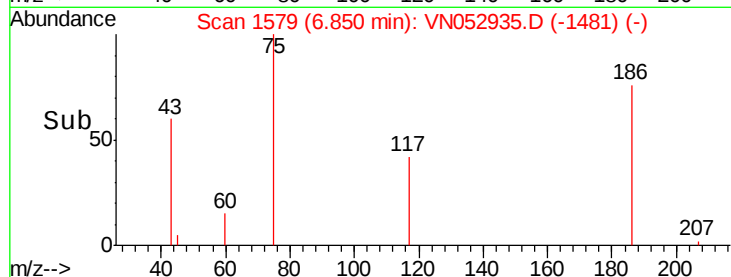
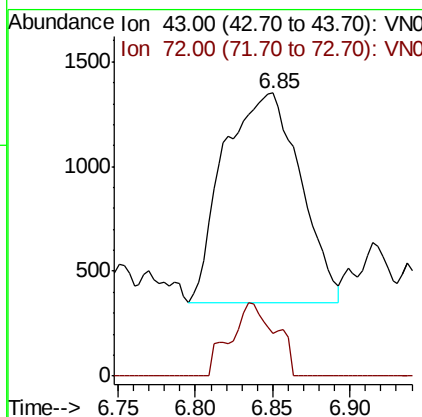
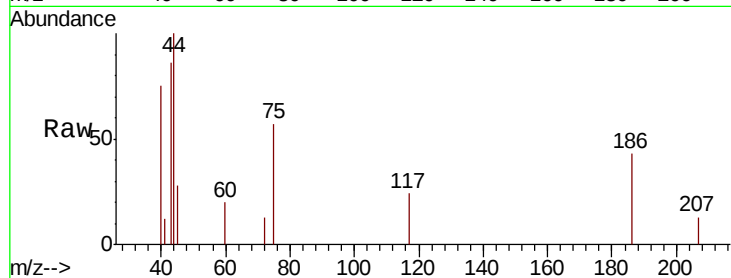




#25
2-Butanone
Concen: 0.697 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

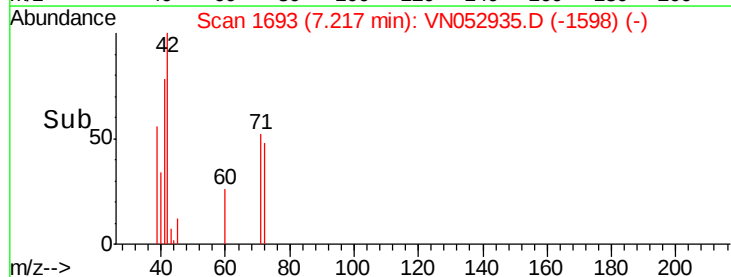
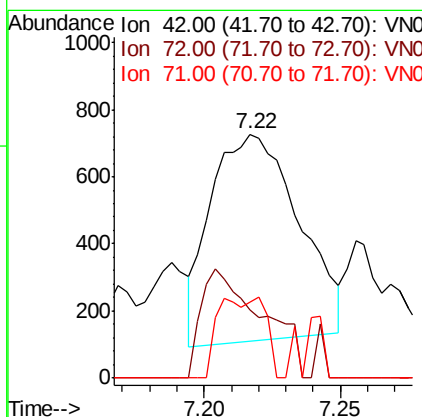
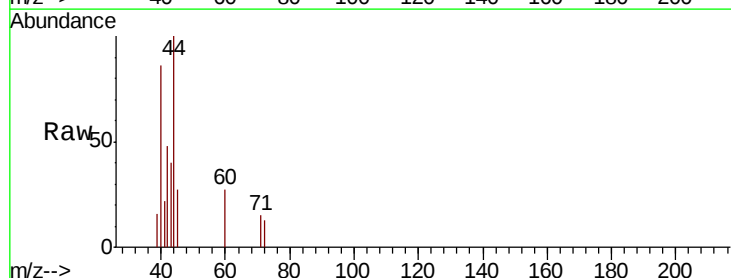
Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#05

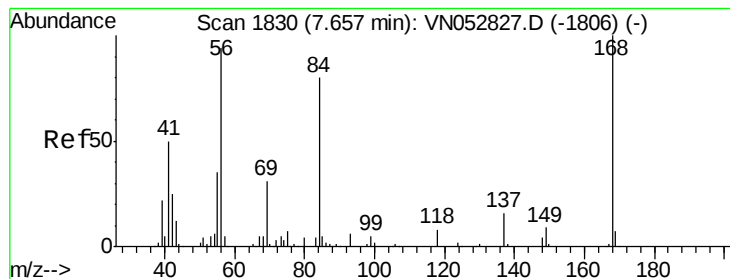
Tot Ion: 43 Resp: 3458
Ion Ratio Lower Upper
43 100
72 20.2 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.406 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

Tgt Ion: 42 Resp: 1376
Ion Ratio Lower Upper
42 100
72 36.9 34.7 52.1
71 12.0 32.3 48.5#





#31

Cyclohexane

Concen: 0.353 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#05

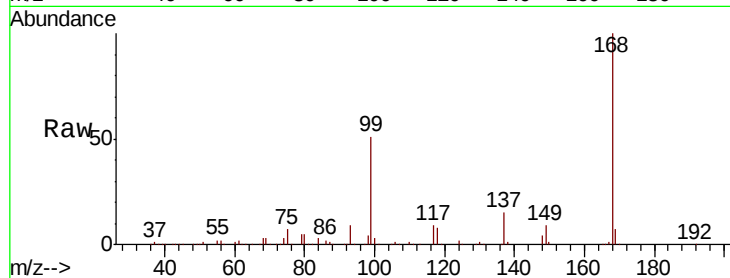
Tot Ion: 56 Resp: 22404

Ion Ratio Lower Upper

56 100

69 181.8 26.6 39.8#

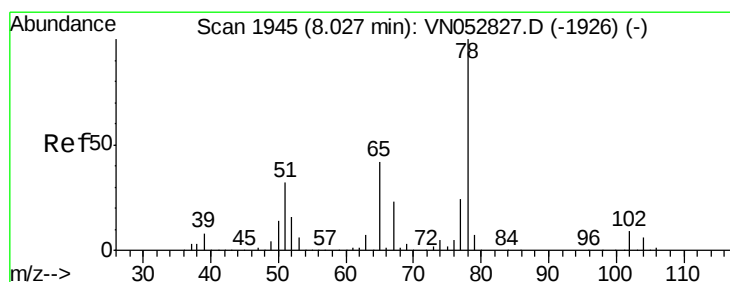
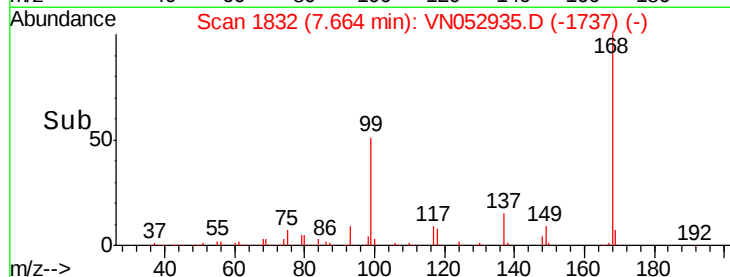
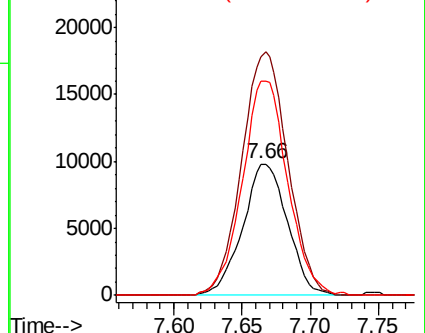
84 162.6 68.4 102.6#



Abundance Ion 56.00 (55.70 to 56.70): VN052935.D (-1737) (-)

Ion 69.00 (68.70 to 69.70): VN052935.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN052935.D (-1737) (-)



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052935.D

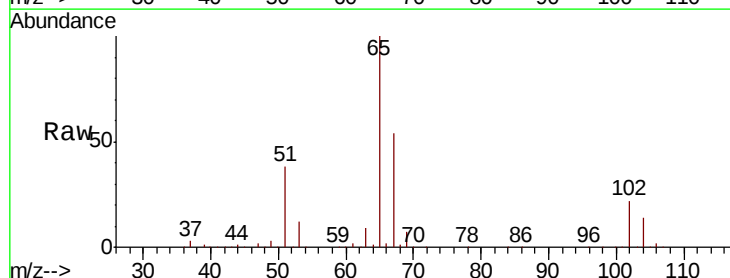
Acq: 17 Dec 2018 18:45

Tgt Ion: 65 Resp: 694197

Ion Ratio Lower Upper

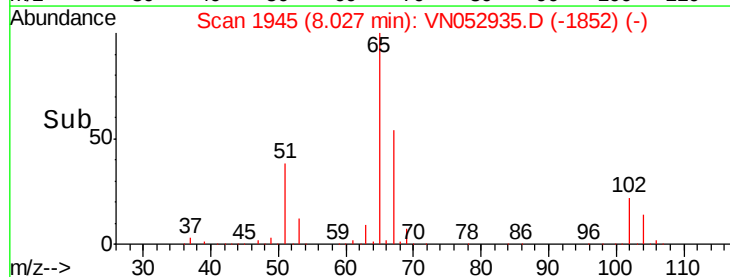
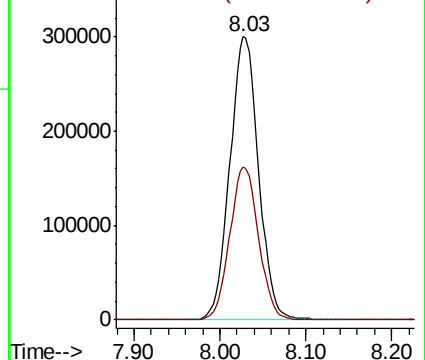
65 100

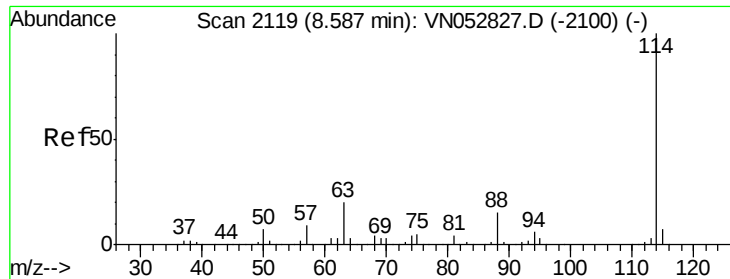
67 54.4 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN052935.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052935.D (-1852) (-)

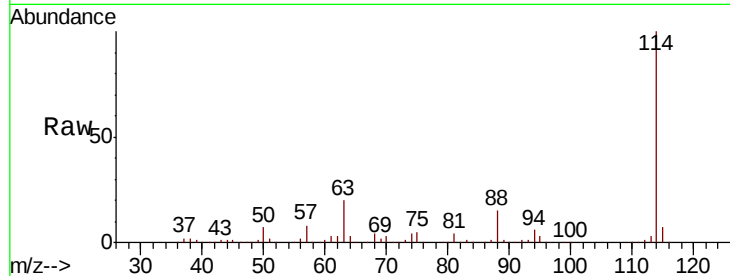




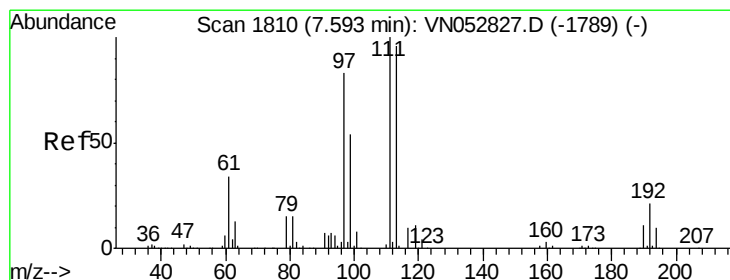
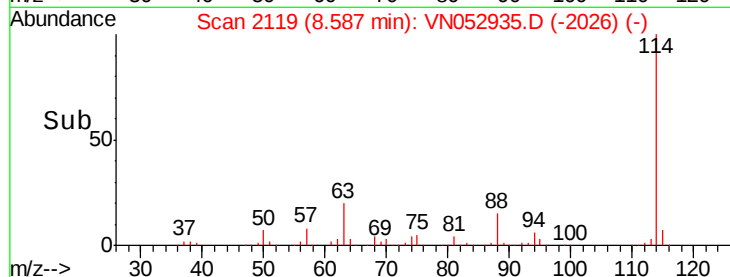
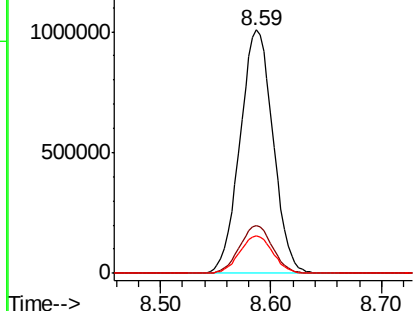
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#05

Tot Ion:114 Resp: 2088577
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.8
 88 15.4 0.0 31.0

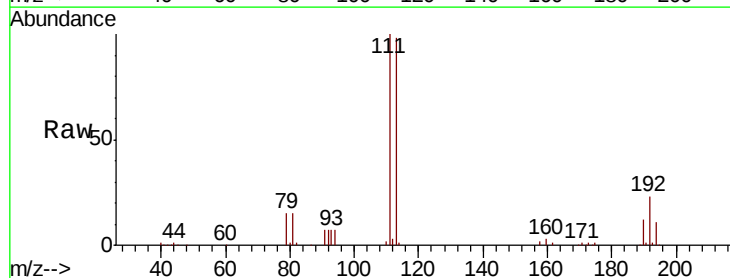


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

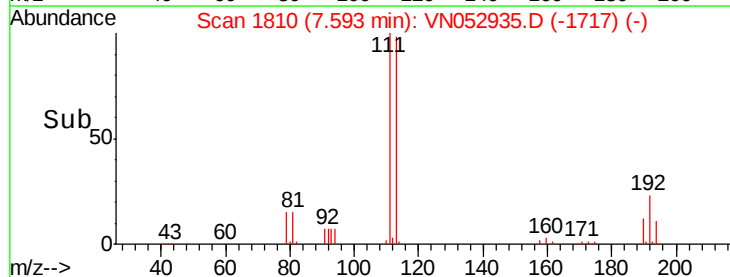
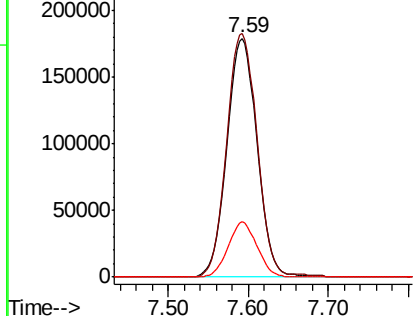


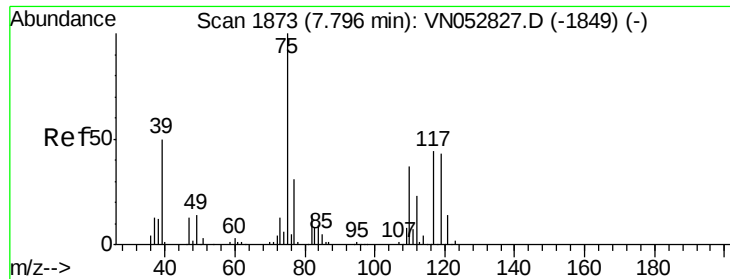
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

Tgt Ion:113 Resp: 460467
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.0 124.4
 192 21.9 17.5 26.3



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

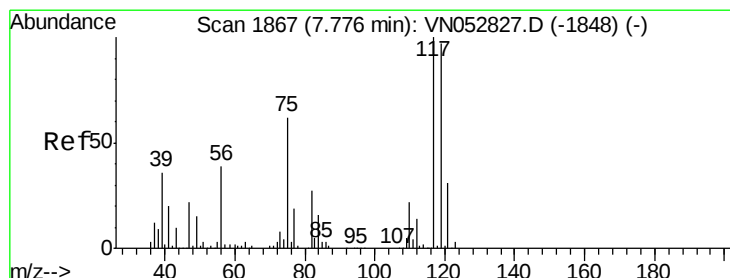
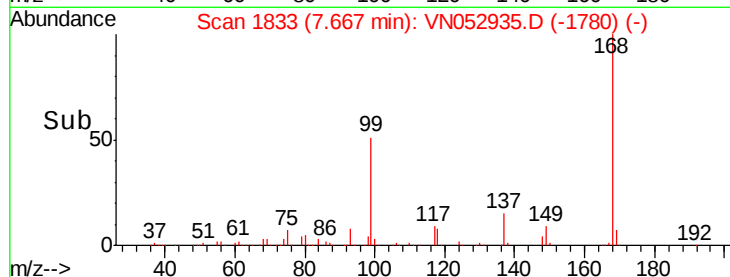
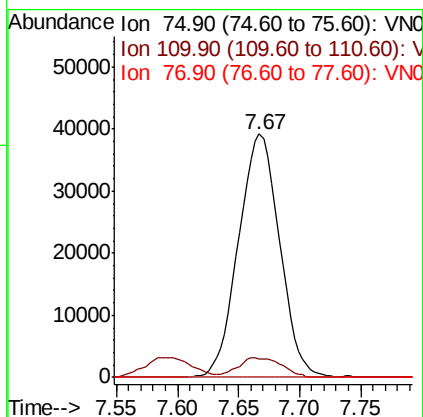
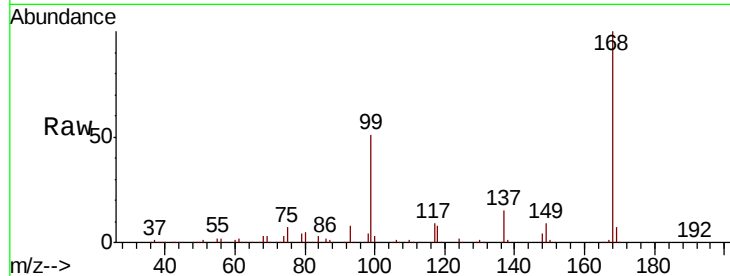




#36
 1,1-Dichloropropene
 Concen: 4.751 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

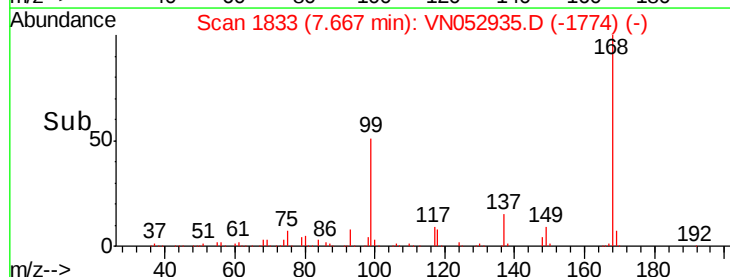
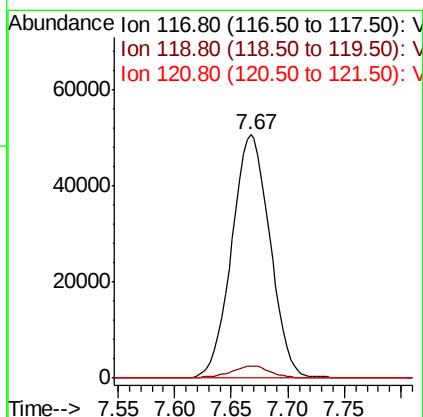
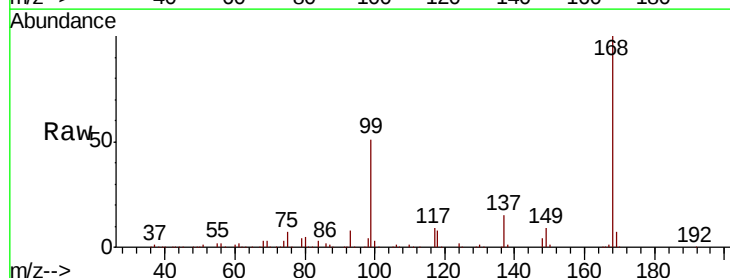
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#05

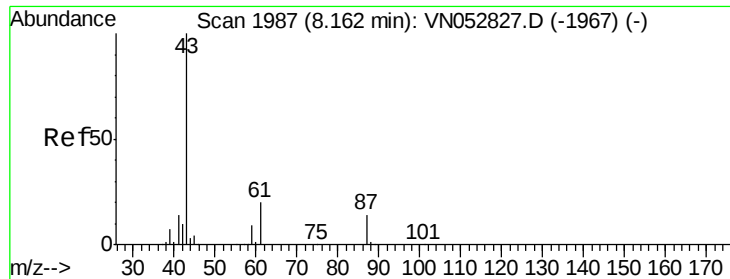
Tot Ion	75	Resp	91373
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	18.2	54.6#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.714 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

Tgt Ion	117	Resp	118863
Ion Ratio	100	Lower	Upper
117	100		
119	5.1	77.1	115.7#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 31.552 ug/l

RT: 8.28 min Scan# 2023

Delta R.T. 0.12 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#05

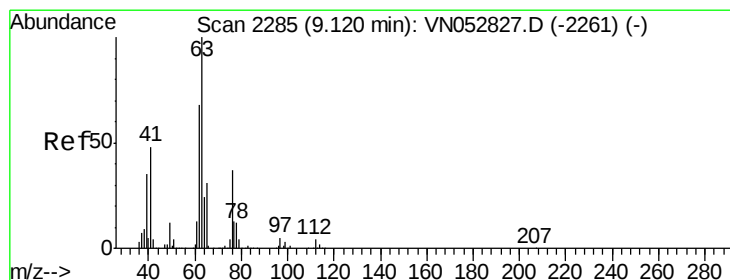
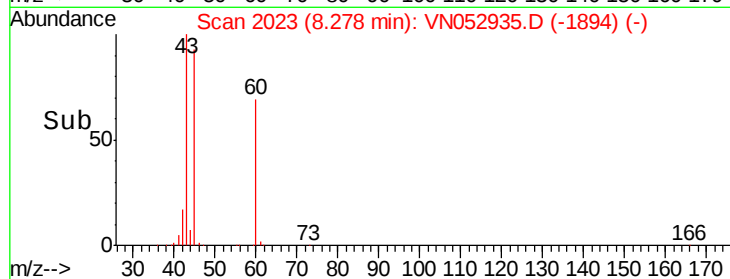
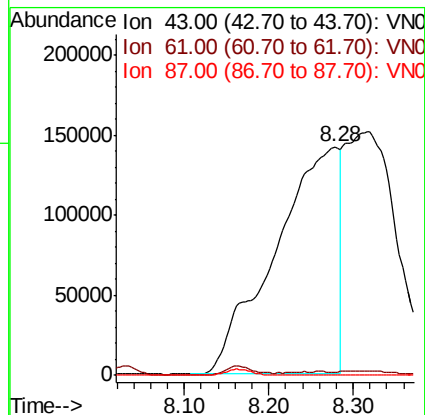
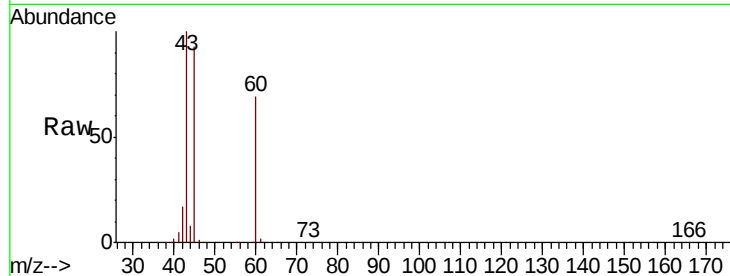
Tot Ion: 43 Resp: 747435

Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

87 0.0 10.6 15.8#



#45

1,2-Dichloropropane

Concen: 0.280 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052935.D

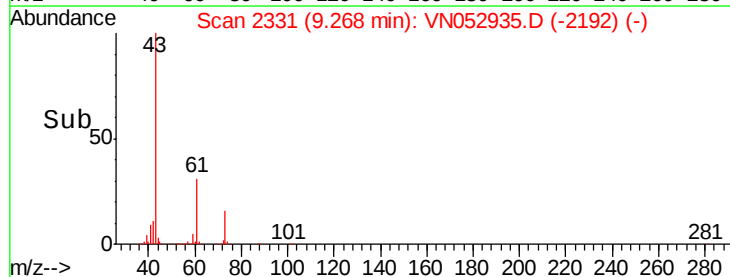
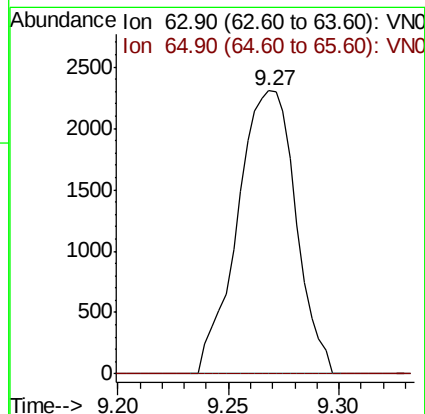
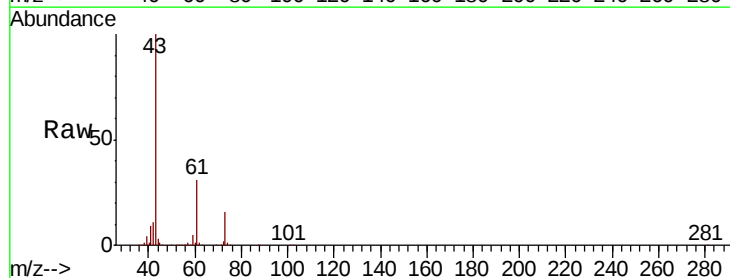
Acq: 17 Dec 2018 18:45

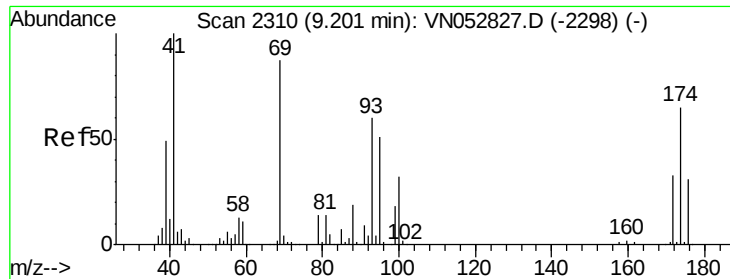
Tgt Ion: 63 Resp: 4239

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#

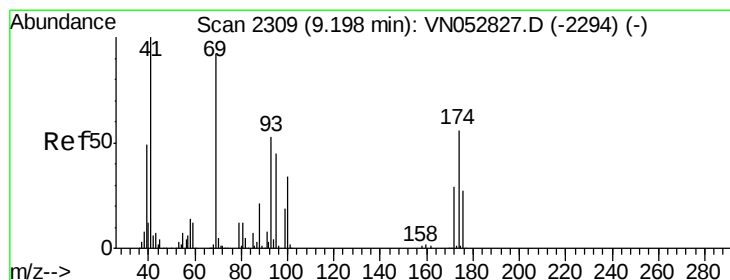
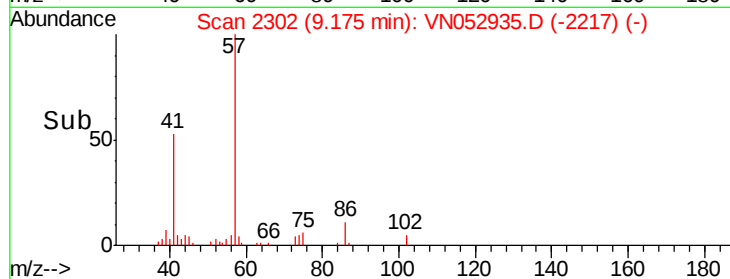
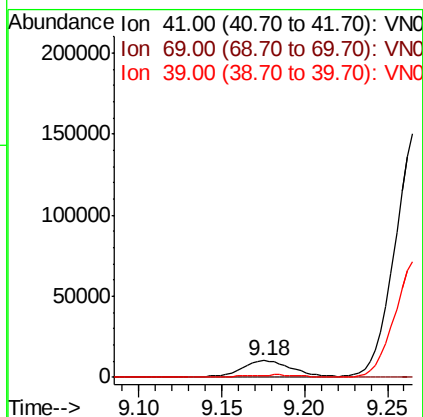
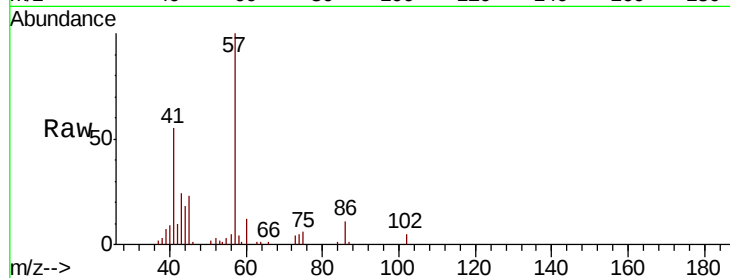




#48
Methvl methacrylate
Concen: 1.978 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

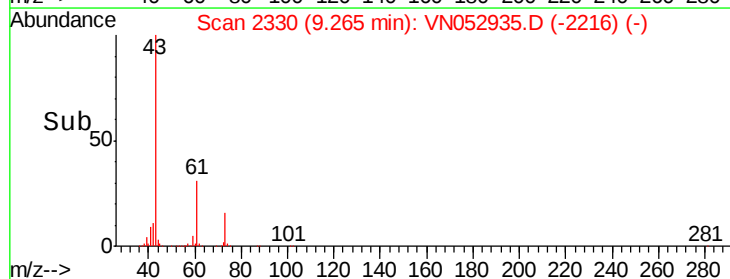
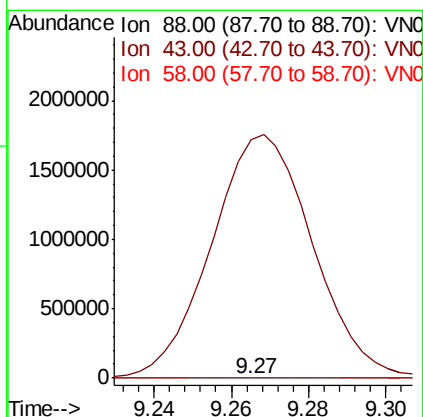
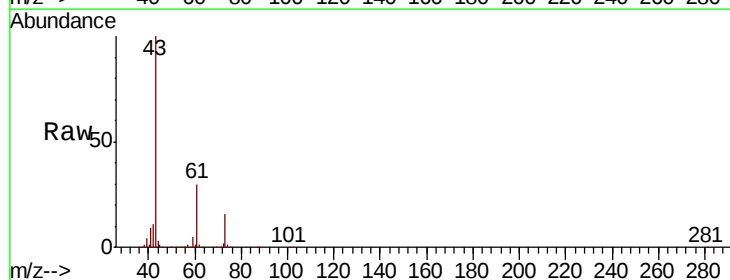
Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#05

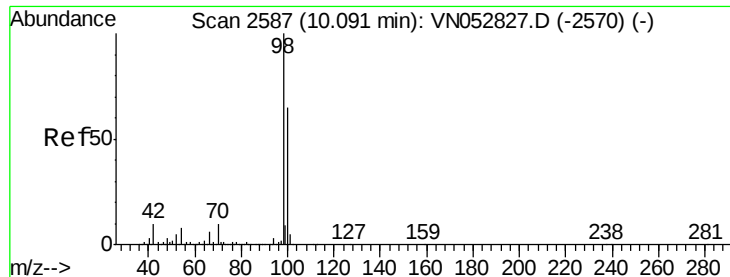
Tot Ion: 41 Resp: 20553
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#



#49
1,4-Dioxane
Concen: 3.680 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

Tgt Ion: 88 Resp: 434
Ion Ratio Lower Upper
88 100
43 738341.9 26.6 40.0#
58 2916.1 58.4 87.6#





#50

Toluene-d8

Concen: 3.680 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

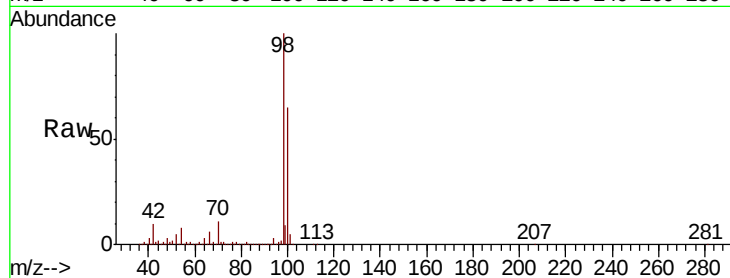
PB115729ZHE#05

Tot Ion: 98 Resp: 2508986

Ion Ratio Lower Upper

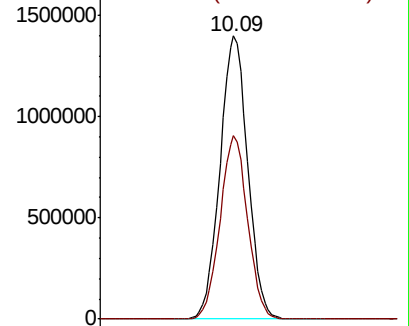
98 100

100 64.4 51.6 77.4

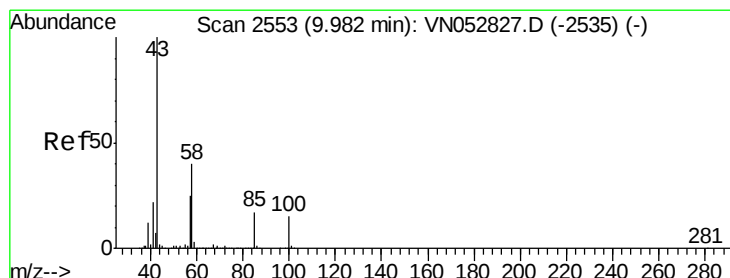
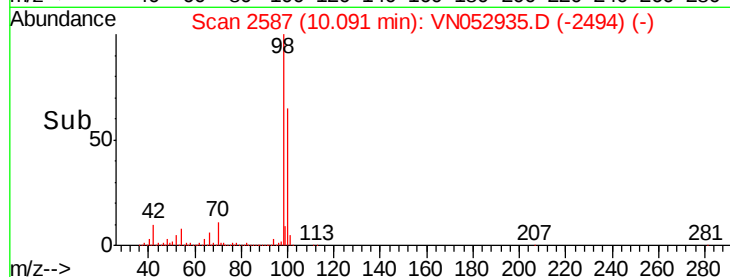


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.018 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052935.D

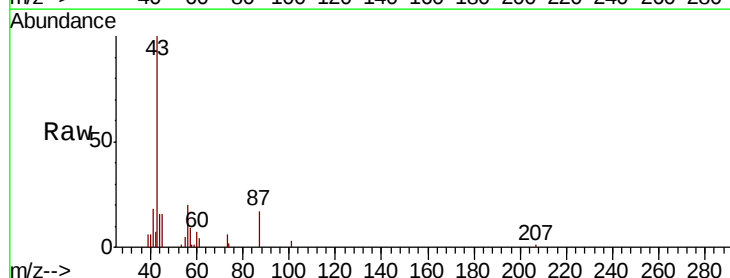
Acq: 17 Dec 2018 18:45

Tgt Ion: 43 Resp: 21916

Ion Ratio Lower Upper

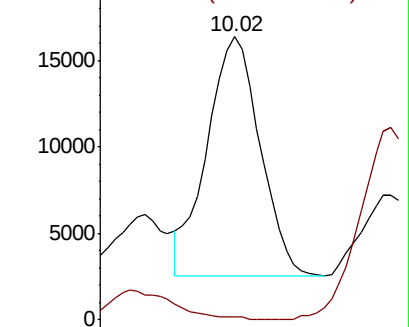
43 100

58 0.0 32.2 48.4#

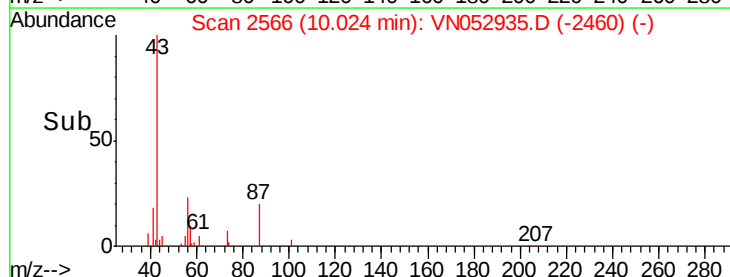


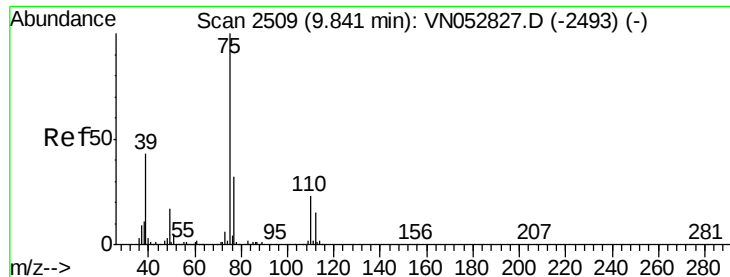
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 7.803 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#05

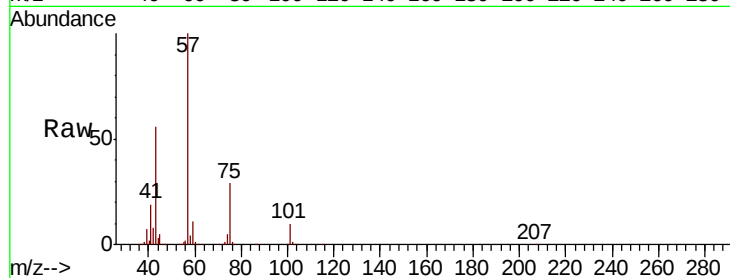
Tot Ion: 75 Resp: 170129

Ion Ratio Lower Upper

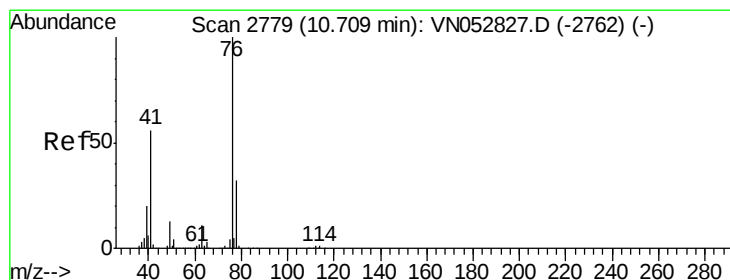
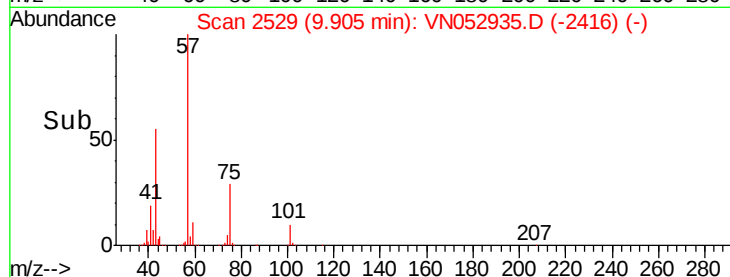
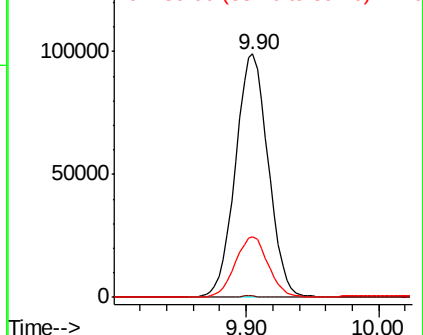
75 100

77 0.5 25.8 38.8#

39 25.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.492 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052935.D

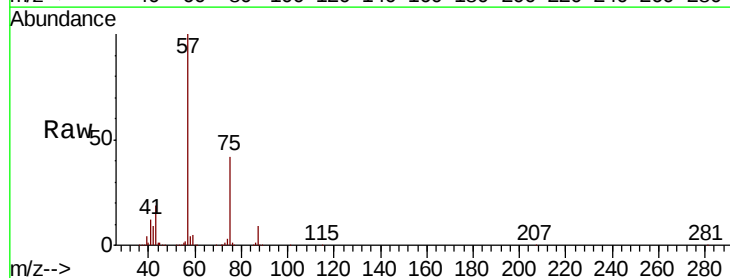
Acq: 17 Dec 2018 18:45

Tgt Ion: 76 Resp: 31924

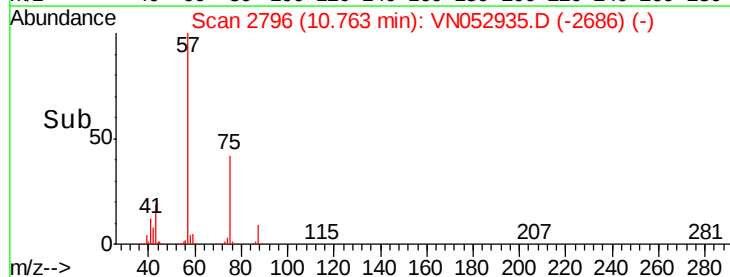
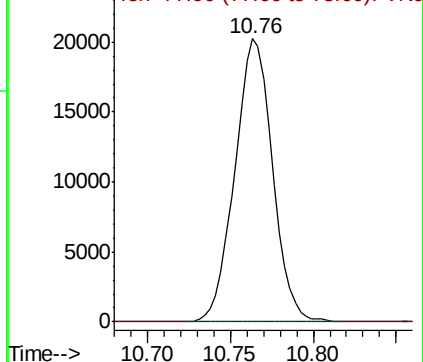
Ion Ratio Lower Upper

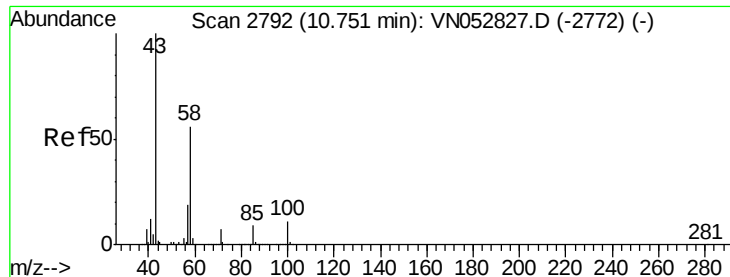
76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

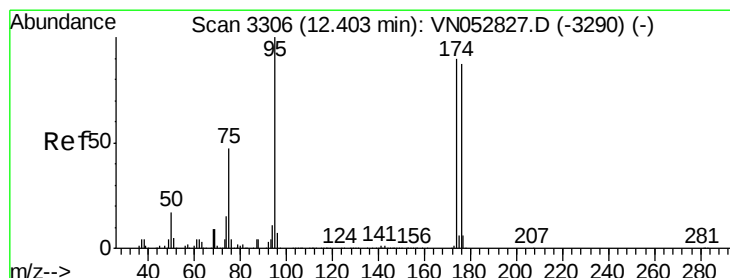
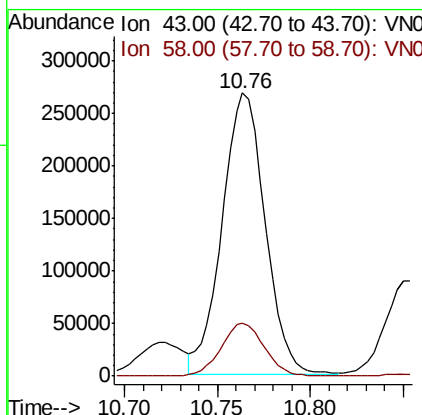
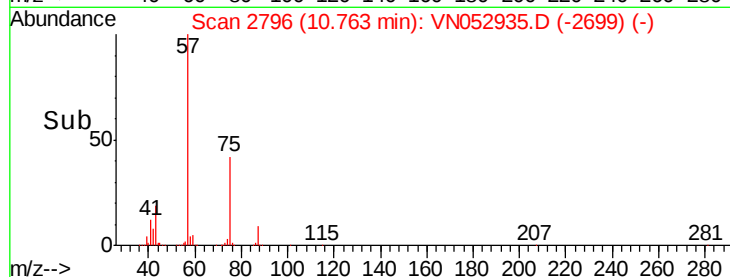
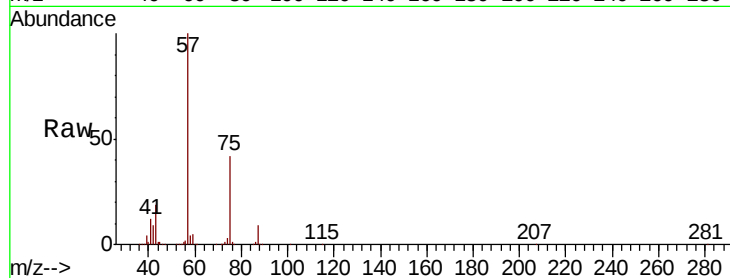




#59
 2-Hexanone
 Concen: 57.705 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

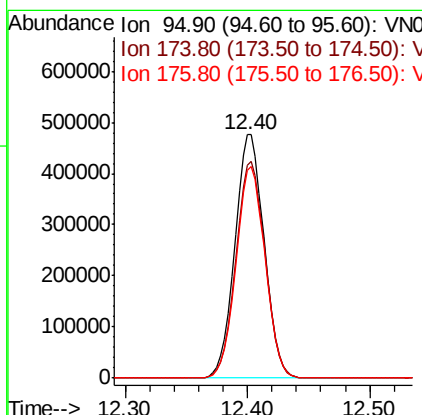
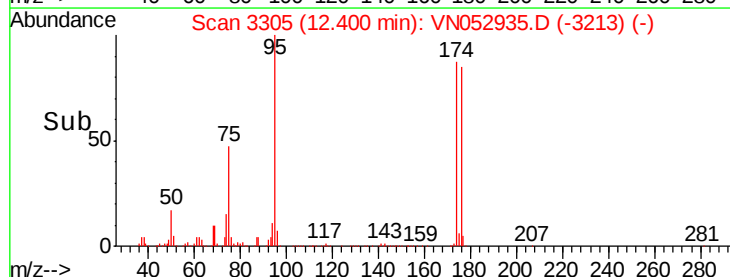
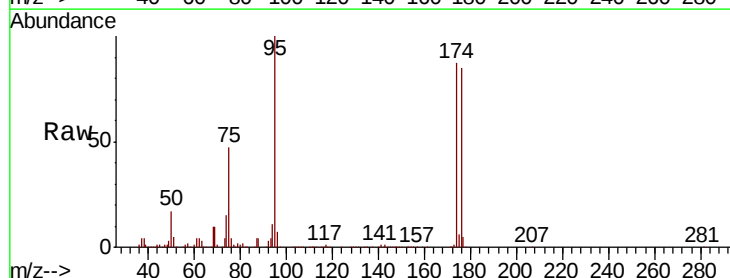
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115729ZHE#05

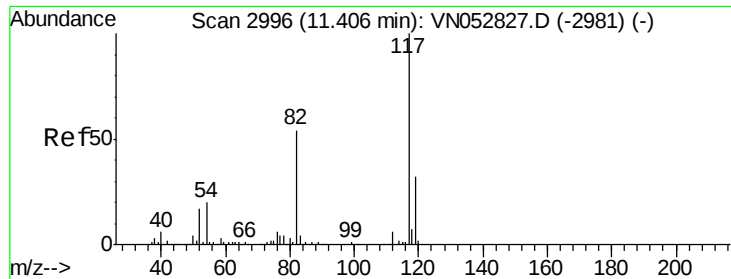
Tot Ion: 43 Resp: 429564
 Ion Ratio Lower Upper
 43 100
 58 19.0 28.1 84.3#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052935.D
 Acq: 17 Dec 2018 18:45

Tgt Ion: 95 Resp: 787270
 Ion Ratio Lower Upper
 95 100
 174 89.2 0.0 178.8
 176 86.2 0.0 173.8

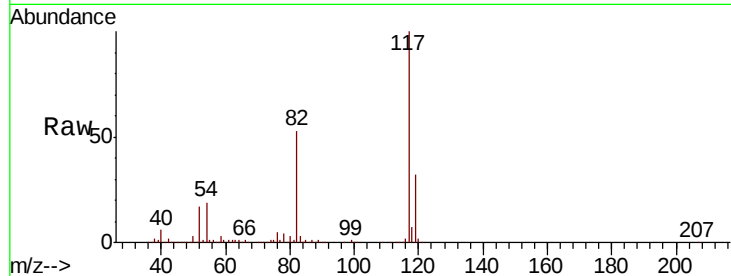




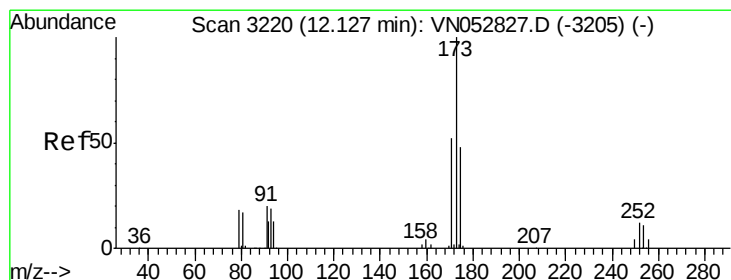
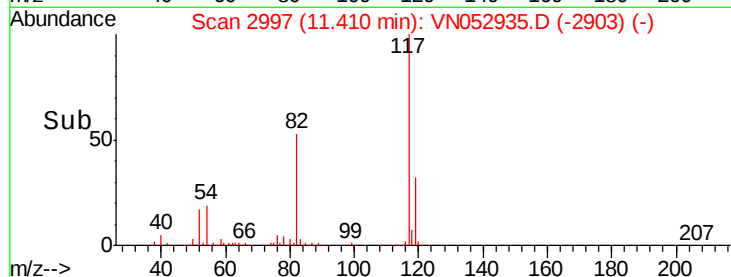
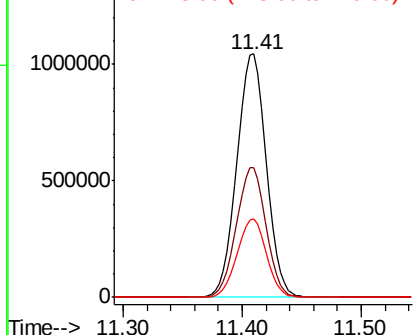
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

Instrument :
MSVOA_N
ClientSampleId :
PB115729ZHE#05

Tot Ion:117 Resp: 1797468
Ion Ratio Lower Upper
117 100
82 53.2 42.8 64.2
119 32.1 25.5 38.3

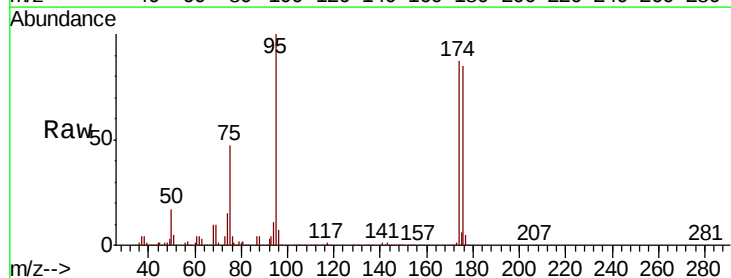


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

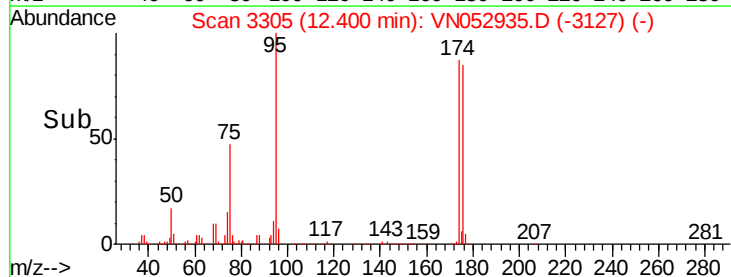
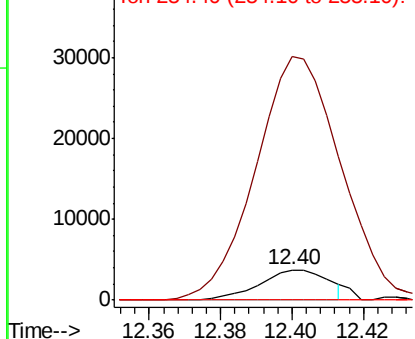


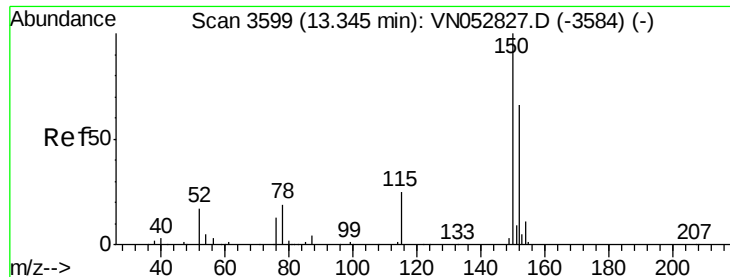
#71
Bromoform
Concen: 0.557 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052935.D
Acq: 17 Dec 2018 18:45

Tgt Ion:173 Resp: 4910
Ion Ratio Lower Upper
173 100
175 880.7 24.3 72.9#
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# 3599

Delta R.T. 0.00 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

PB115729ZHE#05

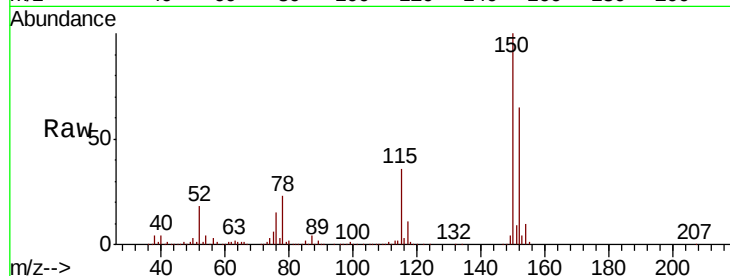
Tot Ion:152 Resp: 701292

Ion Ratio Lower Upper

152 100

115 56.0 28.3 85.0

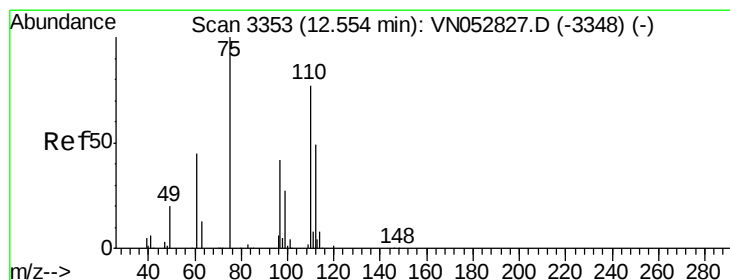
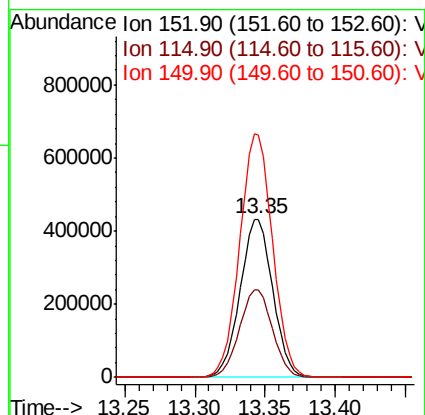
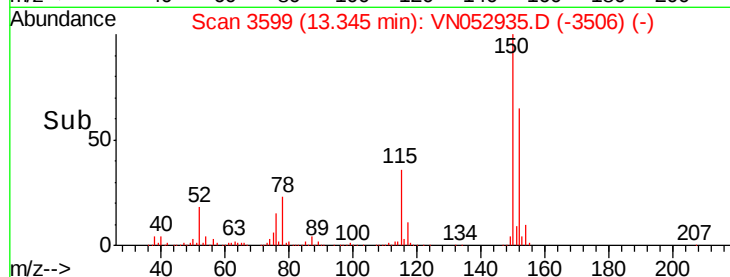
150 155.2 0.0 347.8



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: 35.684 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052935.D

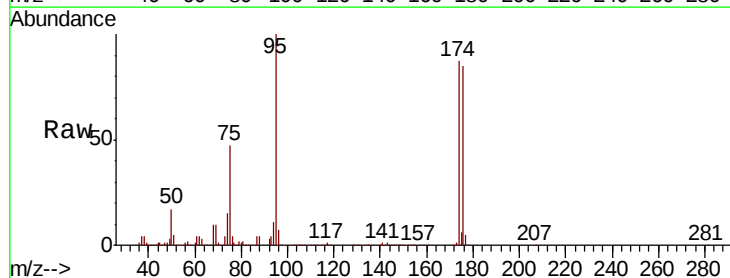
Acq: 17 Dec 2018 18:45

Tgt Ion: 75 Resp: 369212

Ion Ratio Lower Upper

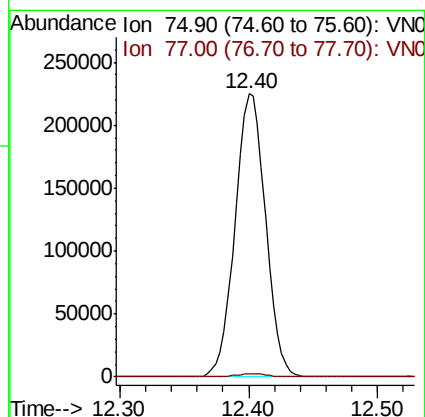
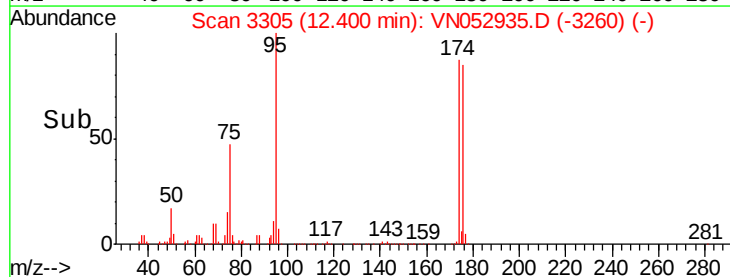
75 100

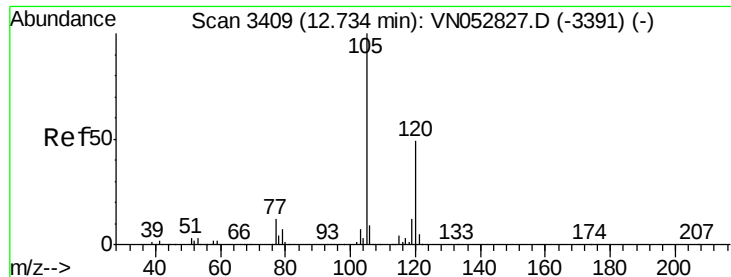
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.229 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Instrument :

MSVOA_N

ClientSampleId :

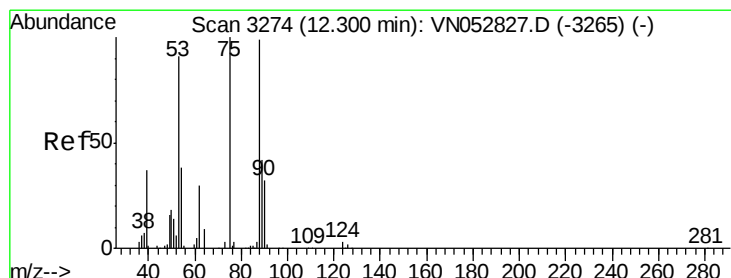
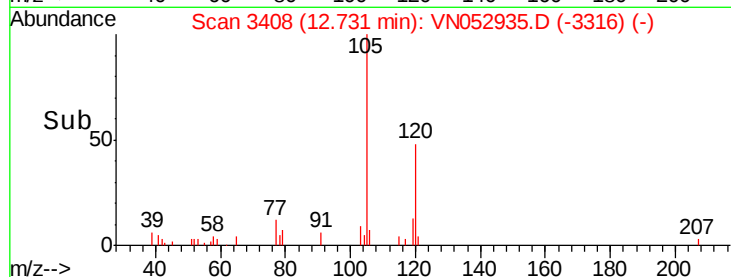
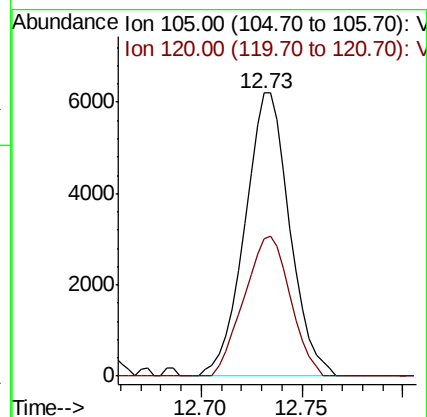
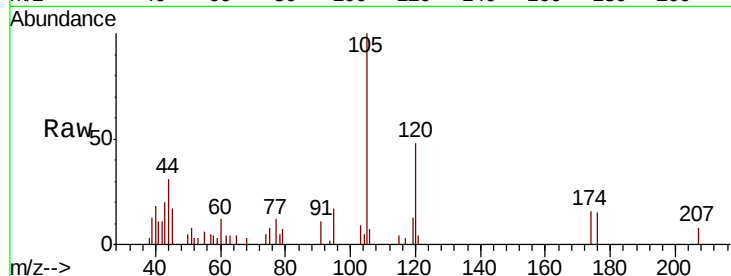
PB115729ZHE#05

Tot Ion:105 Resp: 9676

Ion Ratio Lower Upper

105 100

120 50.8 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 114.634 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052935.D

Acq: 17 Dec 2018 18:45

Tgt Ion: 75 Resp: 369212

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

