

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011420\
 Data File : VN059705.D
 Acq On : 14 Jan 2020 13:59
 Operator : JC/MD
 Sample : PB126072ZHE#11
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB126072ZHE#21

Quant Time: Jan 14 22:17:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	184971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	275646	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	241034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	107791	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	96503	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	7.57	113	84403	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
50) Toluene-d8	10.08	98	316861	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.40	95	112172	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	

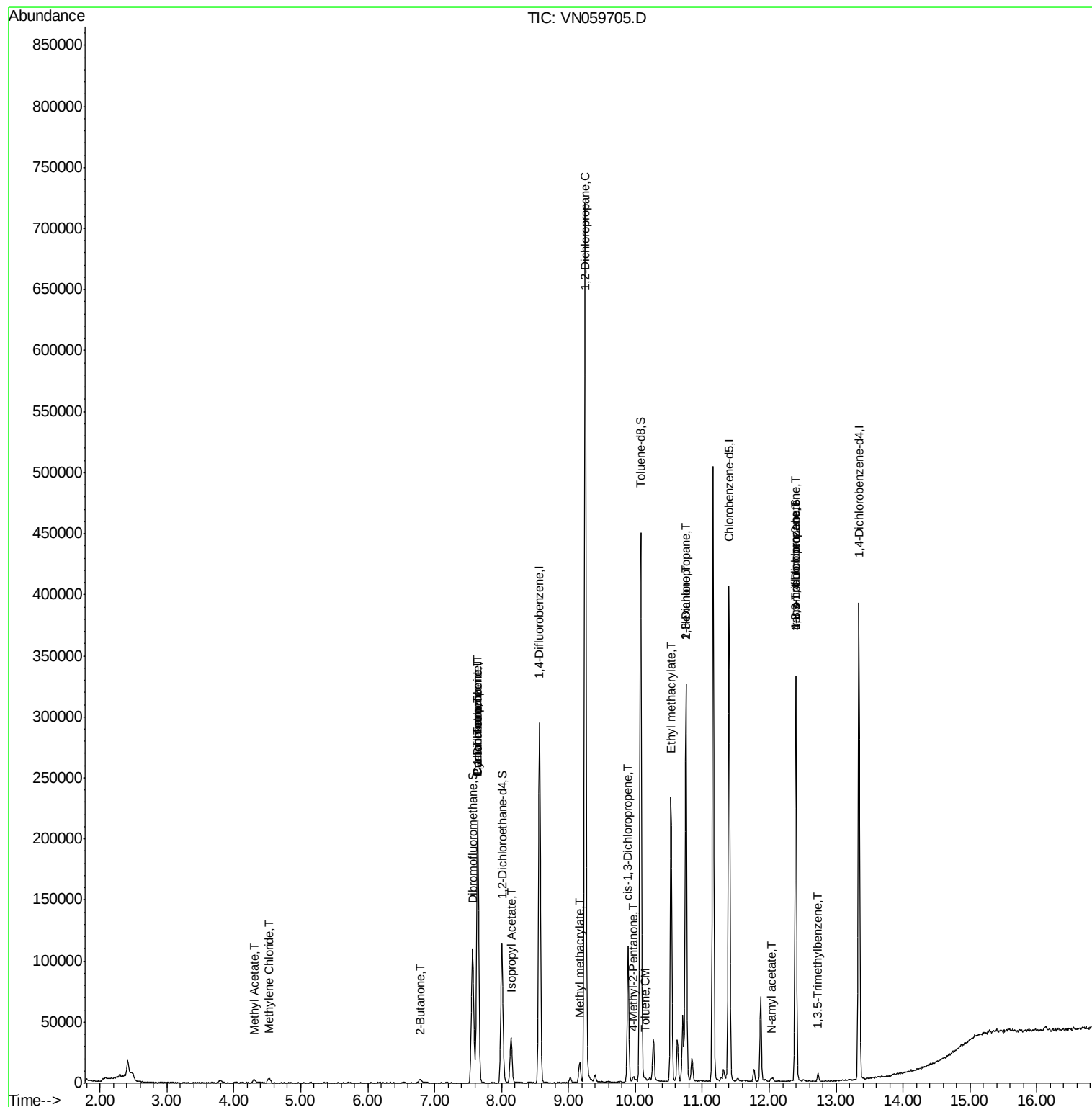
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	4496	Below Cal		89
18) Methyl Acetate	4.30	43	5622	2.343	ug/l	95
20) Methylene Chloride	4.53	84	3157	0.415	ug/l #	79
25) 2-Butanone	6.80	43	351	0.302	ug/l #	50
31) Cyclohexane	7.65	56	3407	1.121	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12547	5.227	ug/l #	49
38) Carbon Tetrachloride	7.64	117	17184	6.581	ug/l #	15
43) Isopropyl Acetate	8.14	43	43573	11.252	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	502	0.283	ug/l #	44
48) Methyl methacrylate	9.16	41	2591	1.496	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3223	1.440	ug/l	89
52) Toluene	10.15	92	1624	0.359	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	20815	7.036	ug/l #	57
56) Ethyl methacrylate	10.53	69	581	0.212	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	3576	1.258	ug/l #	42
59) 2-Hexanone	10.75	43	46355	28.108	ug/l #	55
74) N-amyl acetate	12.03	43	1652	0.539	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	55417	30.549	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3790	0.570	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	55417	65.605	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.24	75	65	Below Cal	#	6

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

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QLast Update : Tue Jan 14 08:58:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

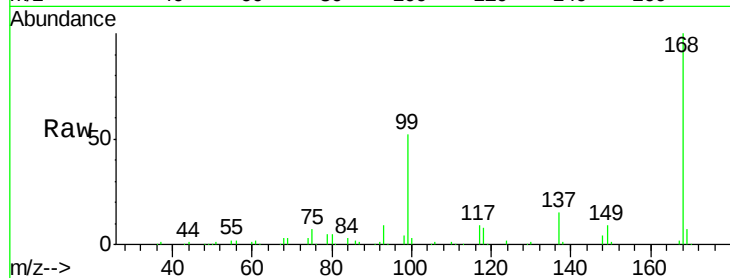
PB126072ZHE#21

Tgt Ion:168 Resp: 184971

Ion Ratio Lower Upper

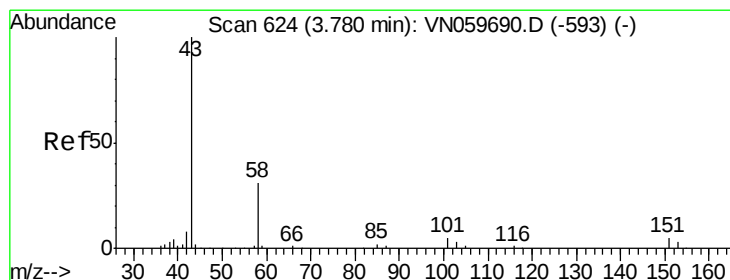
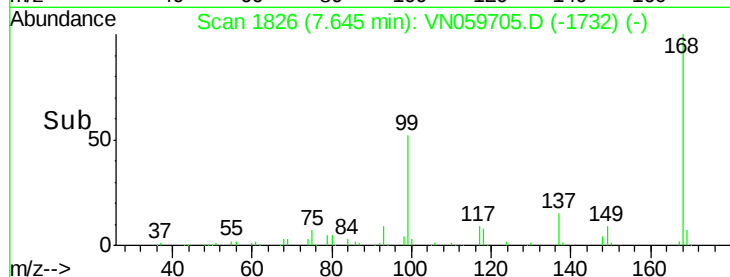
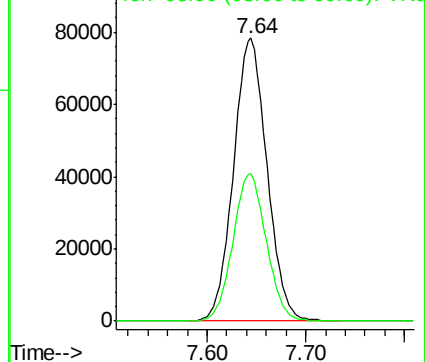
168 100

99 52.0 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN059705.D

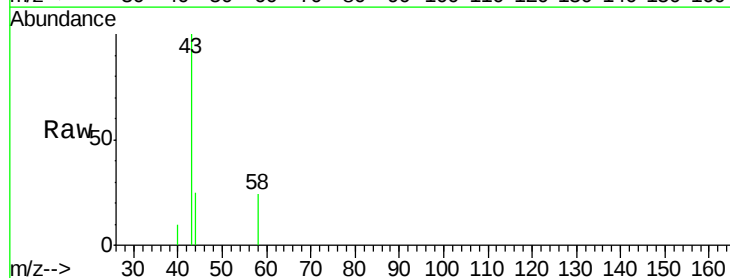
Acq: 14 Jan 2020 13:59

Tgt Ion: 43 Resp: 4496

Ion Ratio Lower Upper

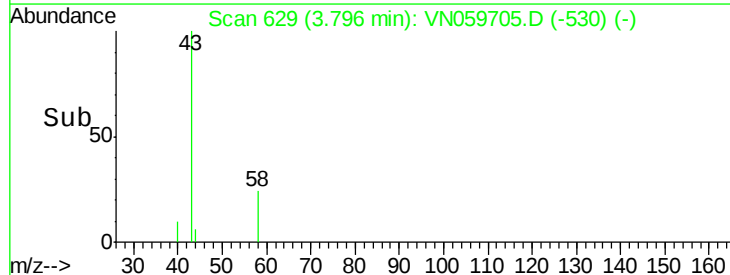
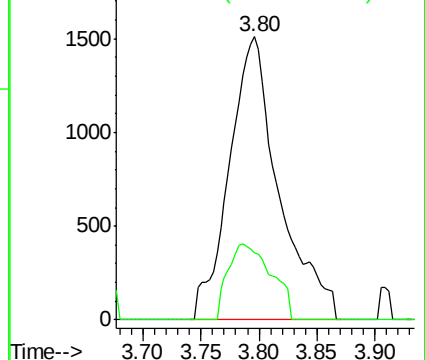
43 100

58 23.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

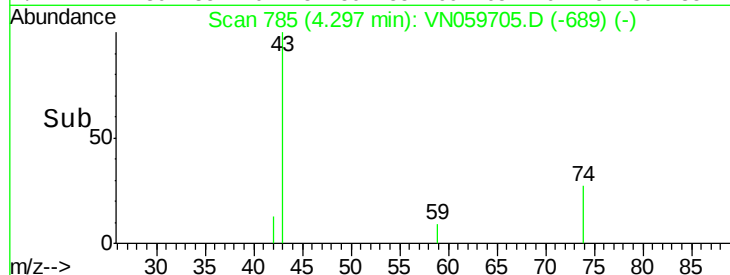
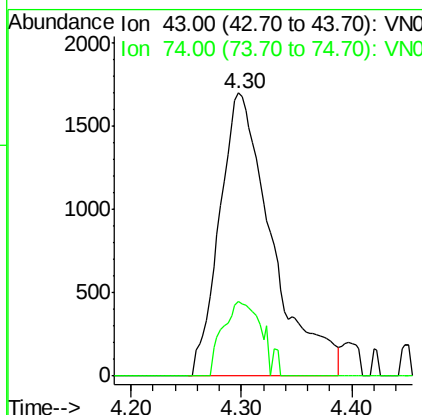
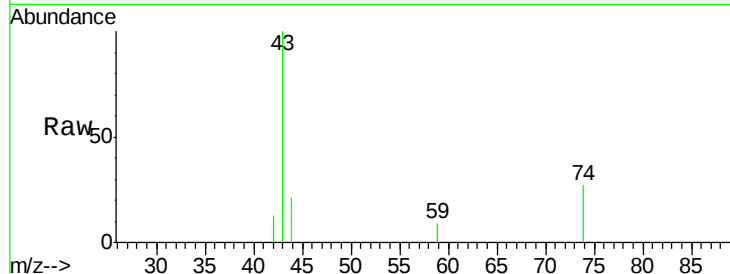




#18
Methyl Acetate
Concen: 2.343 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

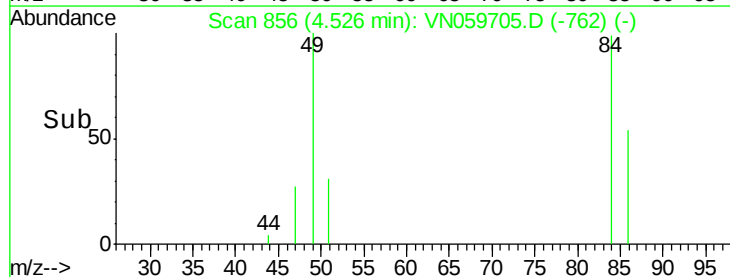
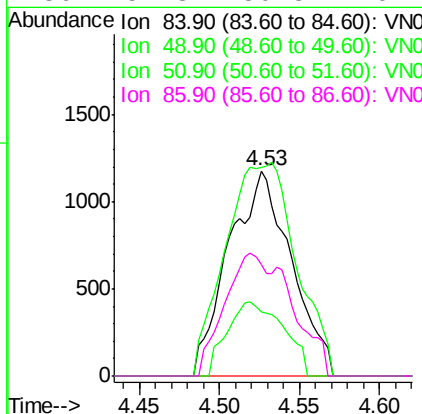
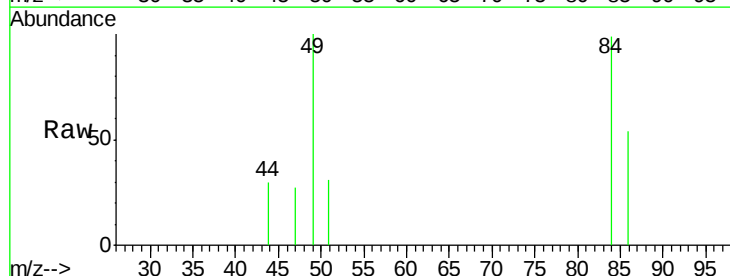
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#21

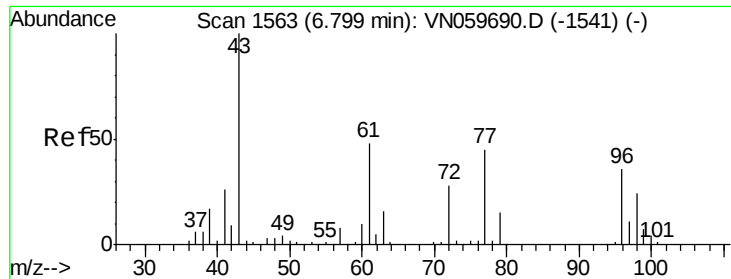
Tgt Ion: 43 Resp: 5622
Ion Ratio Lower Upper
43 100
74 19.7 17.5 26.3



#20
Methylene Chloride
Concen: 0.415 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

Tgt Ion: 84 Resp: 3157
Ion Ratio Lower Upper
84 100
49 101.4 106.6 160.0#
51 31.1 31.9 47.9#
86 54.3 50.8 76.2





#25

2-Butanone

Concen: 0.302 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

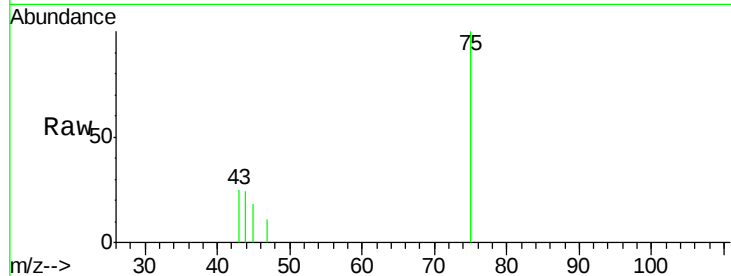
PB126072ZHE#21

Tgt Ion: 43 Resp: 351

Ion Ratio Lower Upper

43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.80

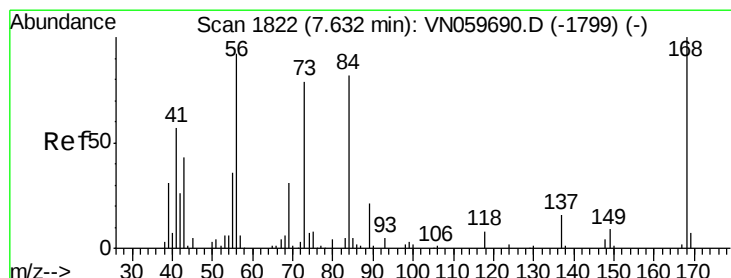
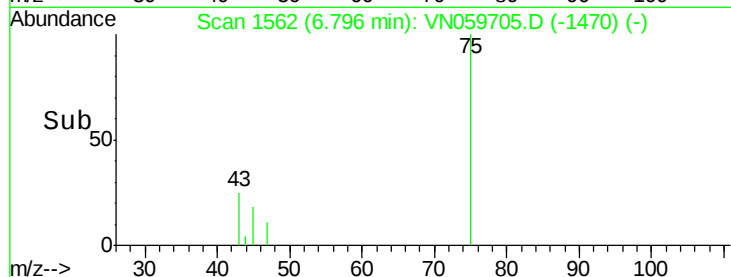
300

200

100

0

Time--> 6.77 6.78 6.79 6.80 6.81



#31

Cyclohexane

Concen: 1.121 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.02 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

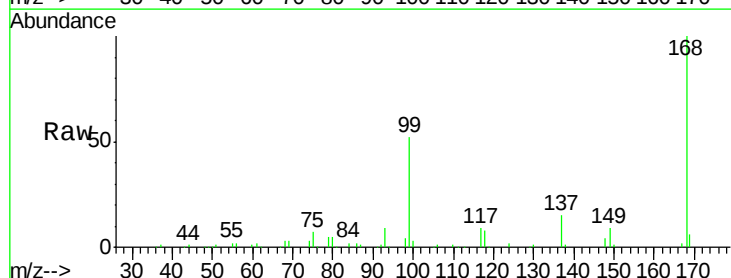
Tgt Ion: 56 Resp: 3407

Ion Ratio Lower Upper

56 100

69 176.3 26.5 39.7#

84 129.3 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

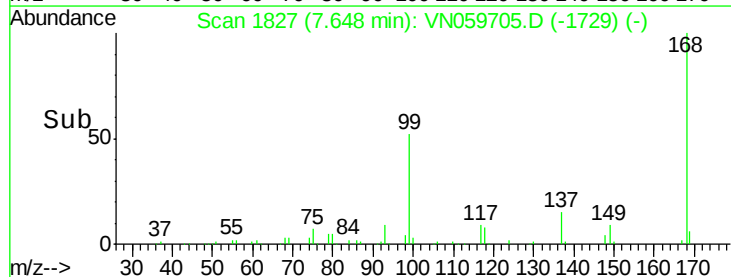
3000

2000

1000

0

Time--> 7.60 7.65 7.70





#33

1,2-Dichloroethane-d4

Concen: 46.980 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

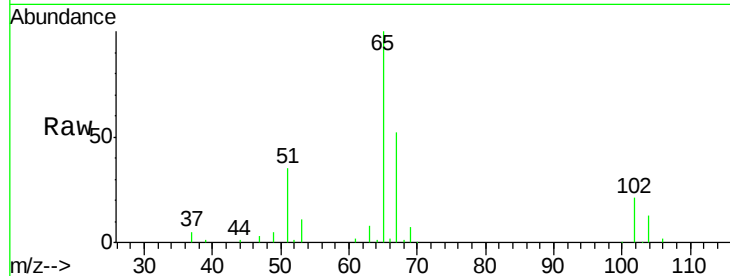
PB126072ZHE#21

Tgt Ion: 65 Resp: 96503

Ion Ratio Lower Upper

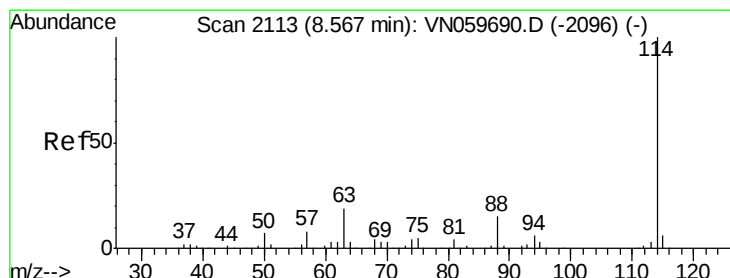
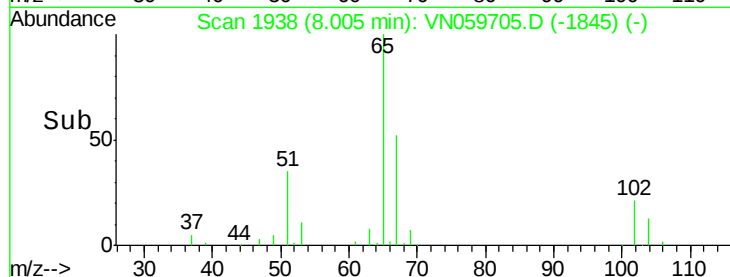
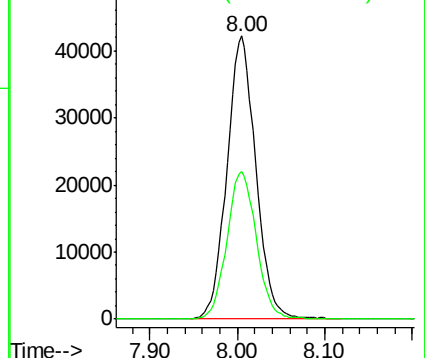
65 100

67 53.2 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

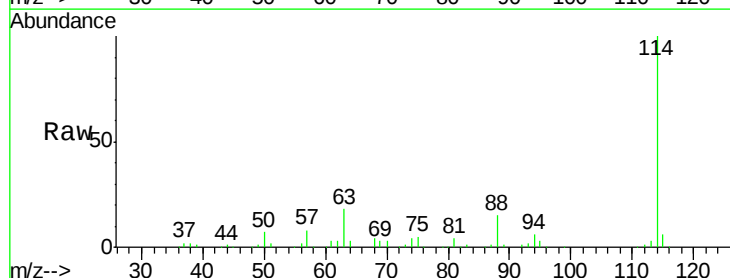
Tgt Ion: 114 Resp: 275646

Ion Ratio Lower Upper

114 100

63 18.5 0.0 43.6

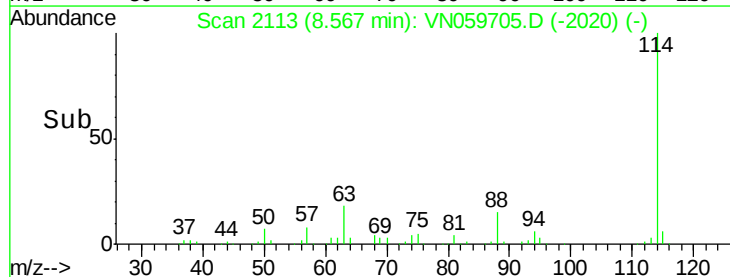
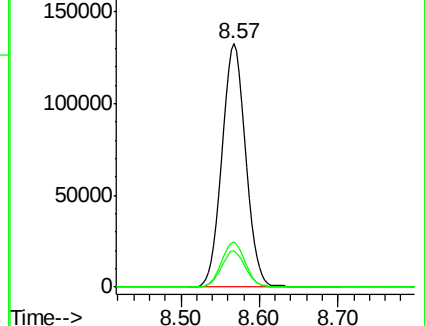
88 14.8 0.0 31.4

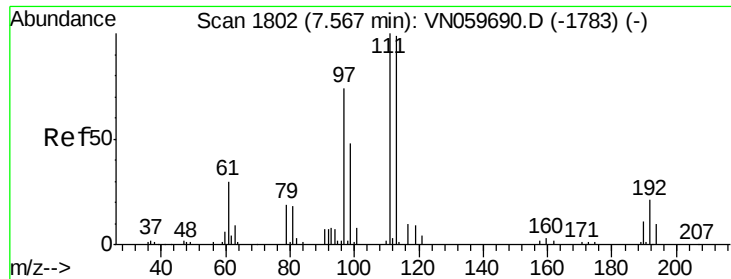


Abundance Ion 113.90 (113.60 to 114.60): VN059690.D (-2096) (-)

Ion 63.00 (62.70 to 63.70): VN059690.D (-2096) (-)

Ion 87.90 (87.60 to 88.60): VN059690.D (-2096) (-)

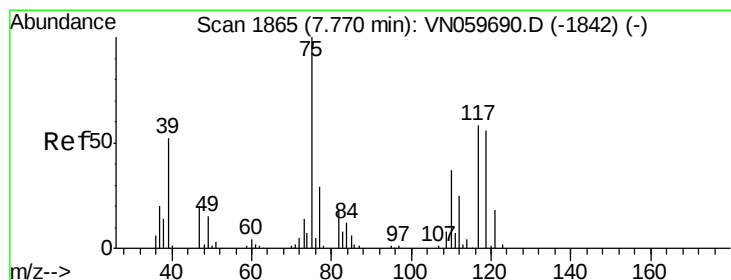
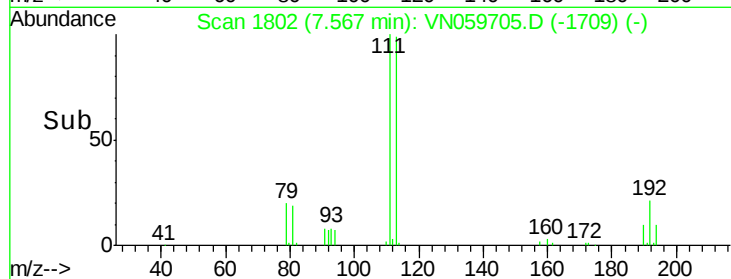
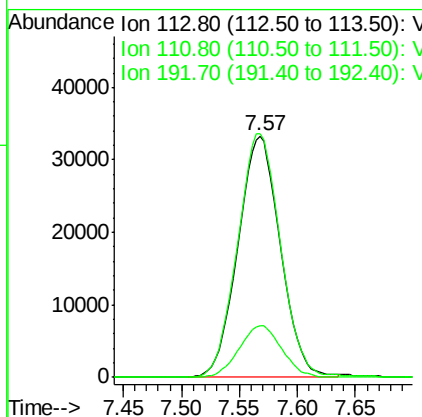
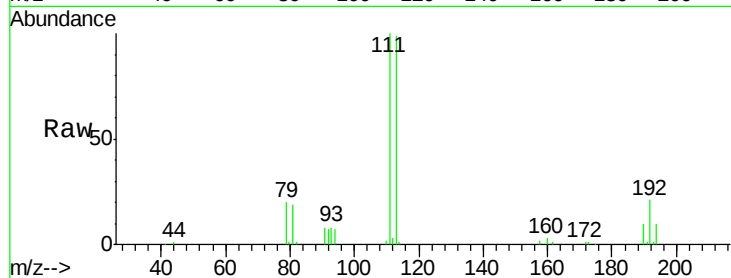




#35
 Dibromofluoromethane
 Concen: 51.346 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059705.D
 Acq: 14 Jan 2020 13:59

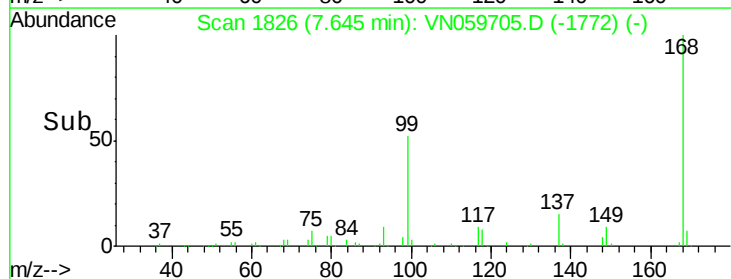
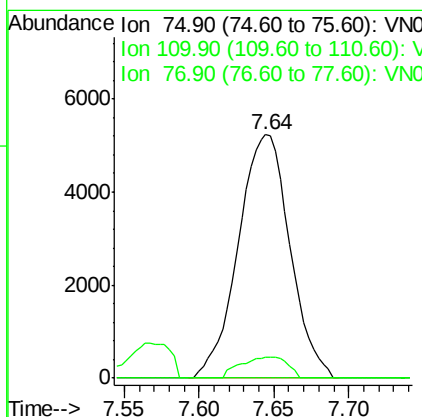
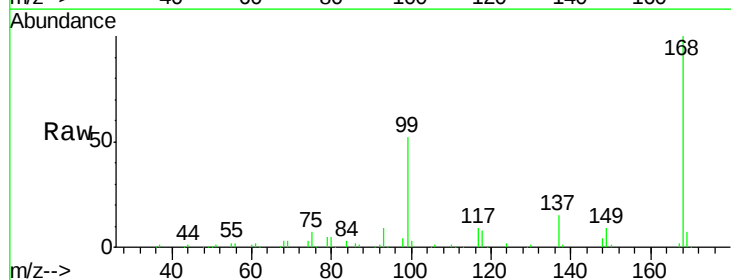
Instrument :
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 PB126072ZHE#21

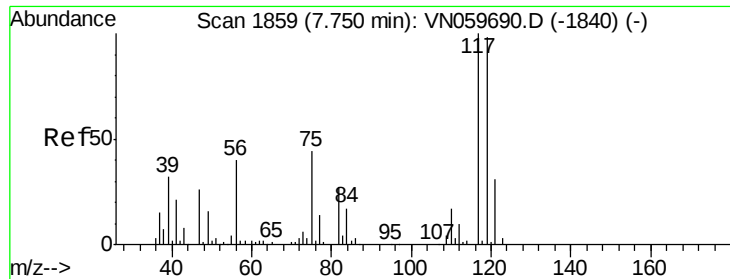
Tgt Ion: 113 Resp: 84403
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.5 125.3
 192 21.5 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.227 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059705.D
 Acq: 14 Jan 2020 13:59

Tgt Ion: 75 Resp: 12547
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.581 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#21

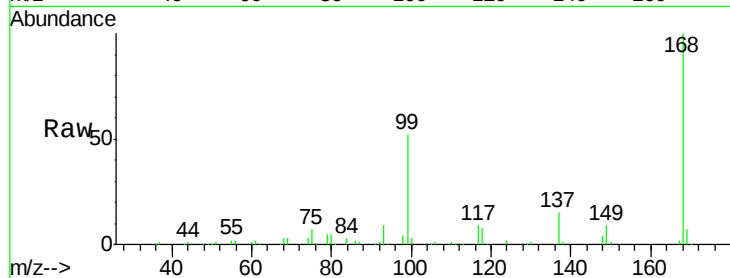
Tgt Ion: 117 Resp: 17184

Ion Ratio Lower Upper

117 100

119 4.2 76.5 114.7#

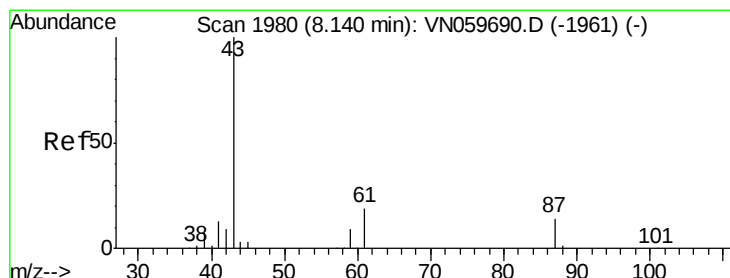
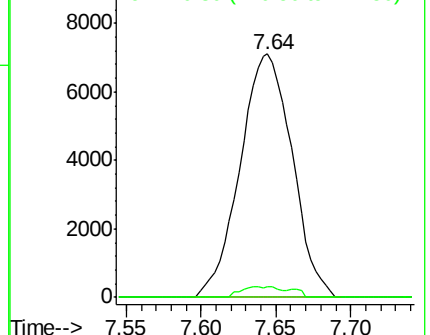
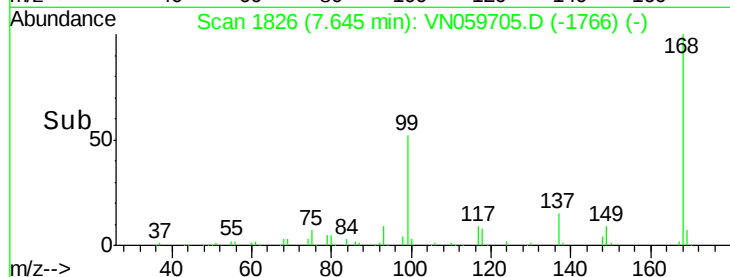
121 0.0 25.1 37.7#



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



#43

Isopropyl Acetate

Concen: 11.252 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

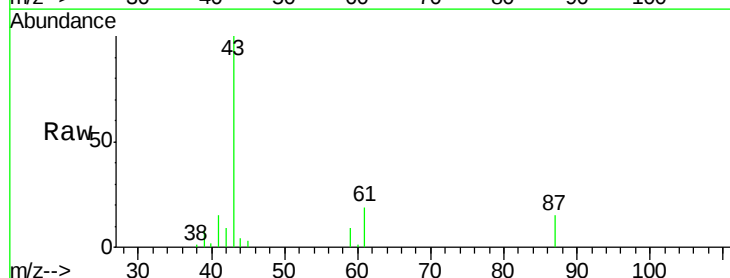
Tgt Ion: 43 Resp: 43573

Ion Ratio Lower Upper

43 100

61 19.8 20.2 30.2#

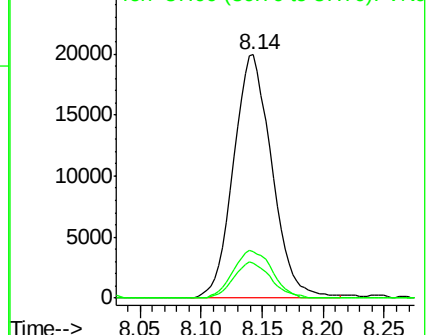
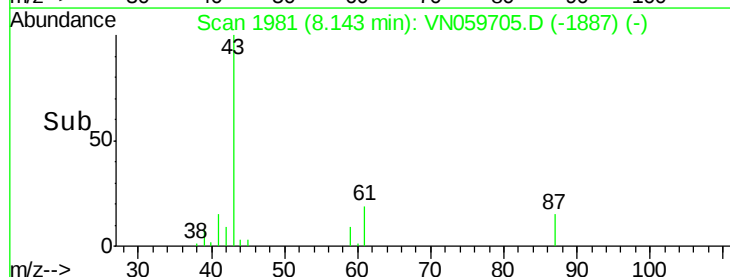
87 14.3 9.5 14.3

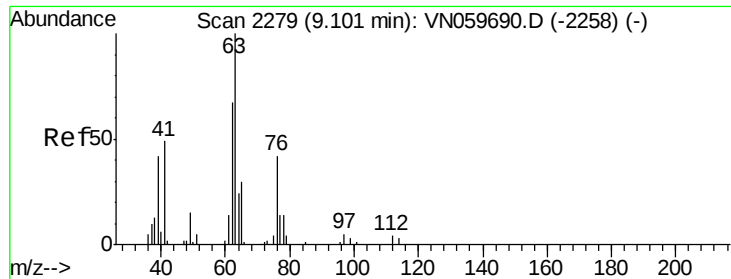


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.283 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

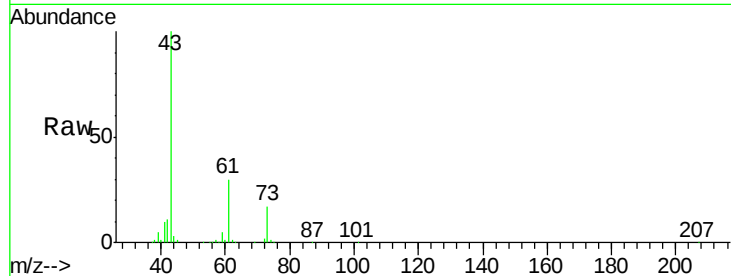
PB126072ZHE#21

Tgt Ion: 63 Resp: 502

Ion Ratio Lower Upper

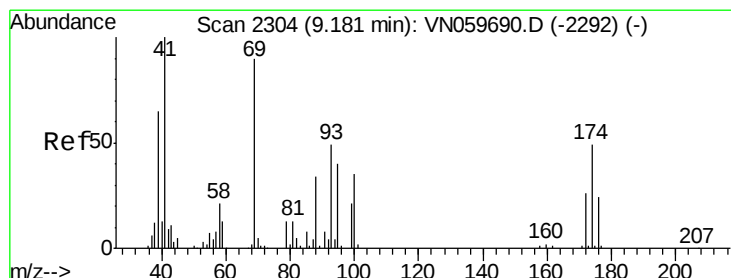
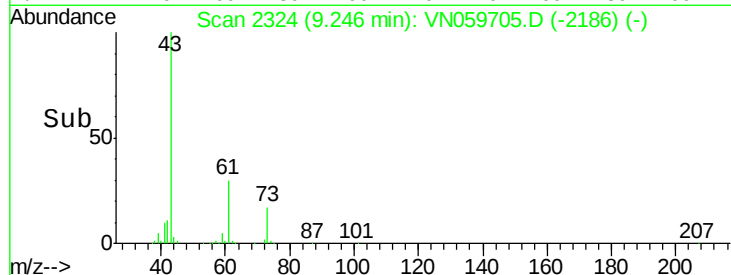
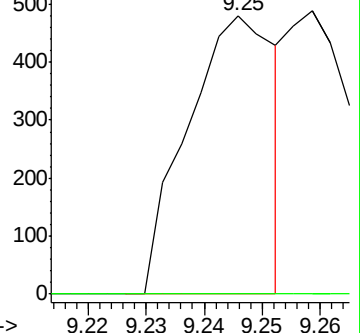
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.496 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

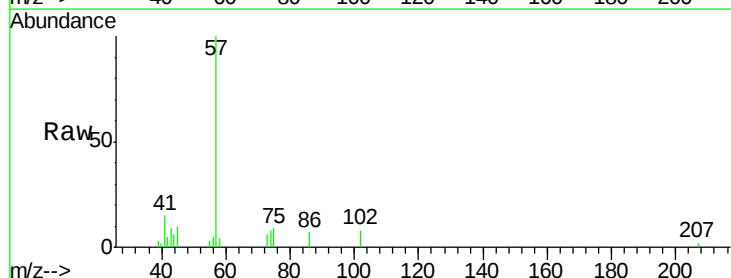
Tgt Ion: 41 Resp: 2591

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

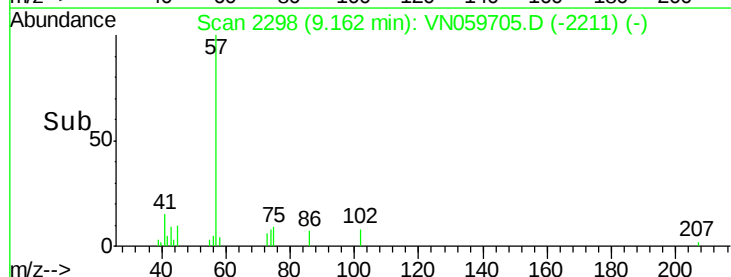
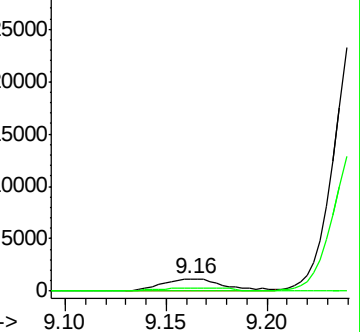
39 0.0 51.3 76.9#

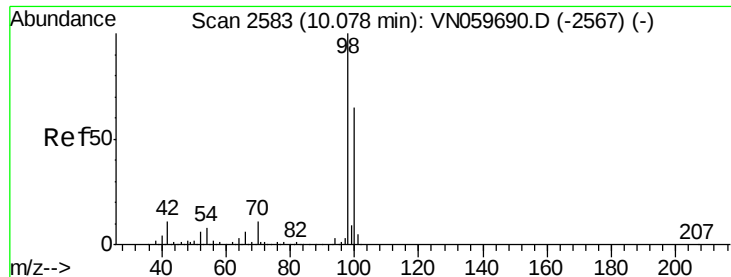


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

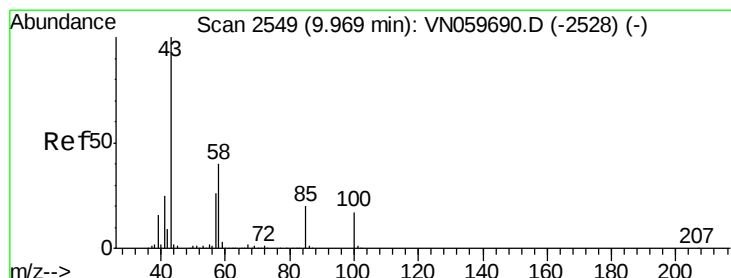
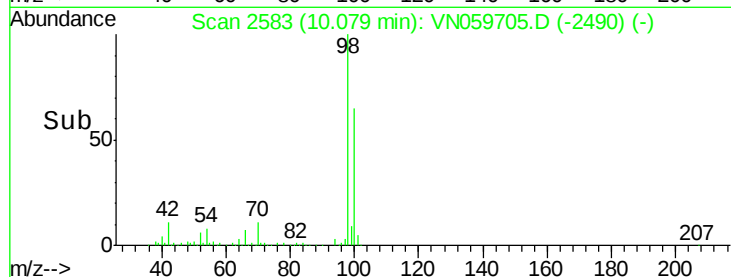
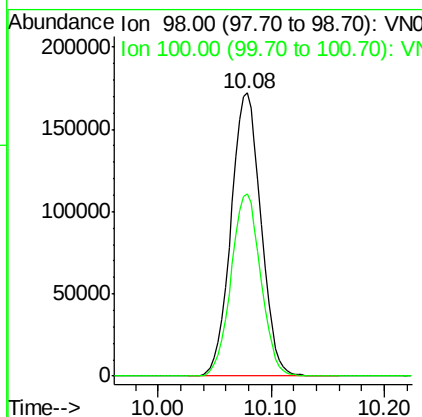
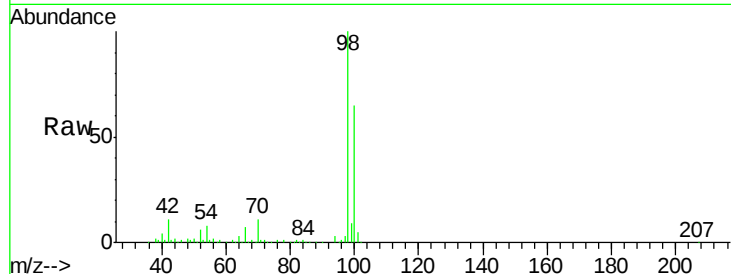




#50
Toluene-d8
Concen: 49.751 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

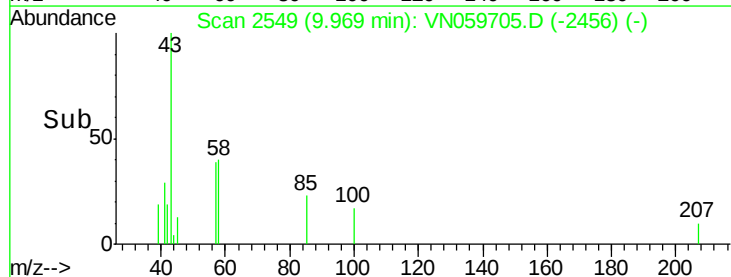
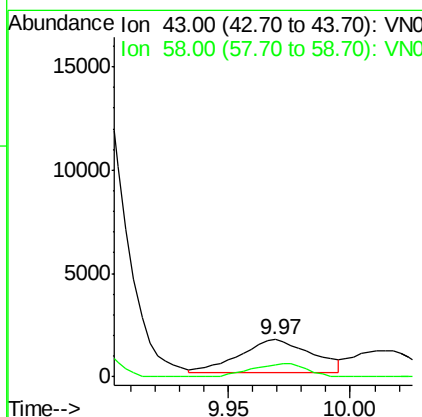
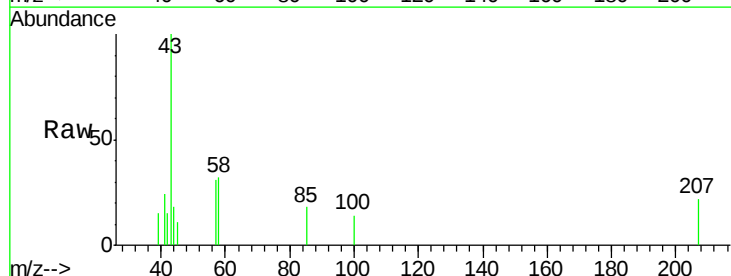
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#21

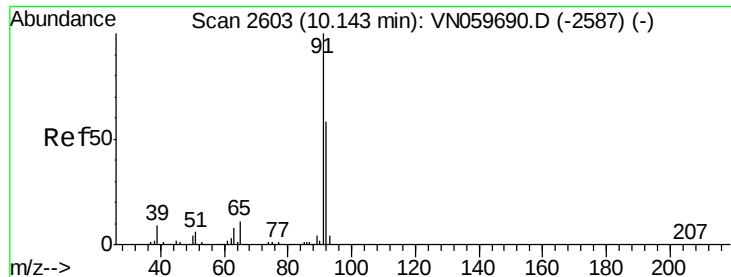
Tgt Ion: 98 Resp: 316861
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.440 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

Tgt Ion: 43 Resp: 3223
Ion Ratio Lower Upper
43 100
58 30.8 29.8 44.8





#52

Toluene

Concen: 0.359 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

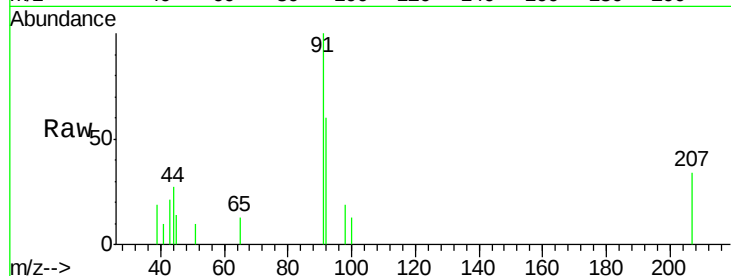
PB126072ZHE#21

Tgt Ion: 92 Resp: 1624

Ion Ratio Lower Upper

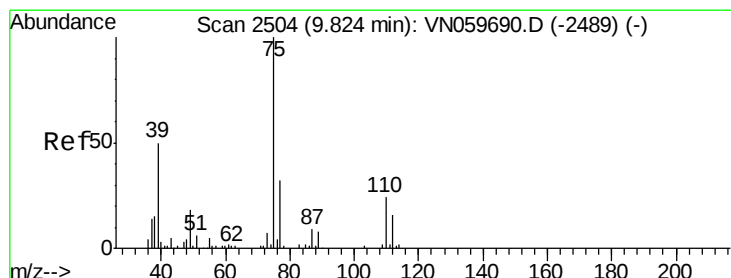
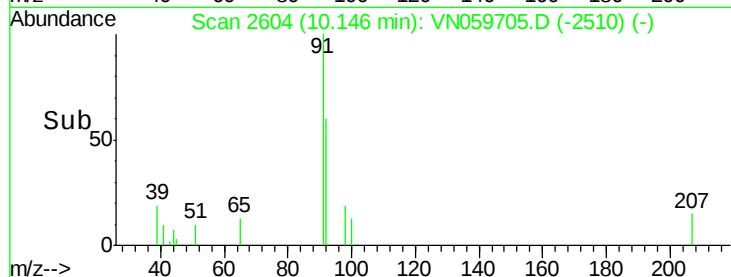
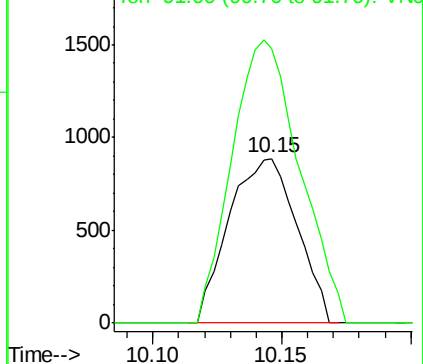
92 100

91 172.0 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.036 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

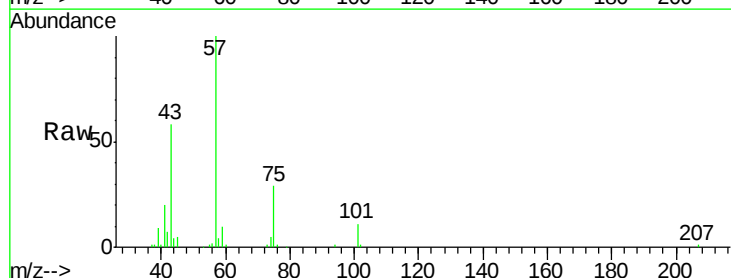
Tgt Ion: 75 Resp: 20815

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

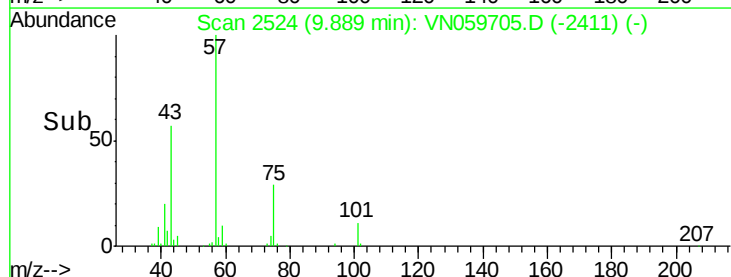
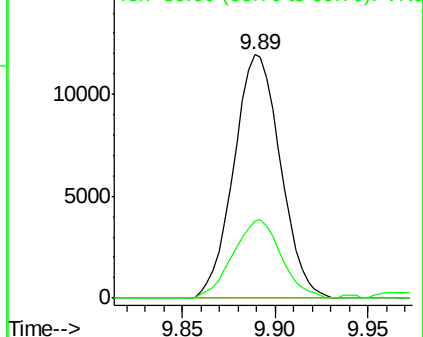
39 31.9 46.1 69.1#

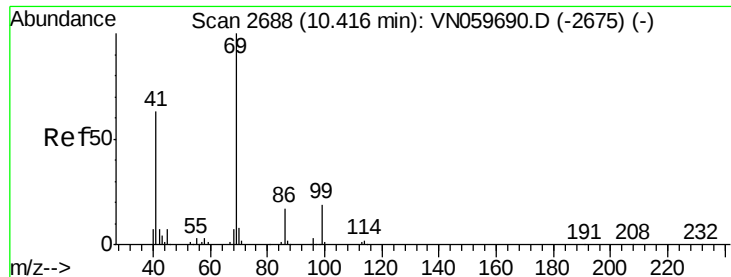


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

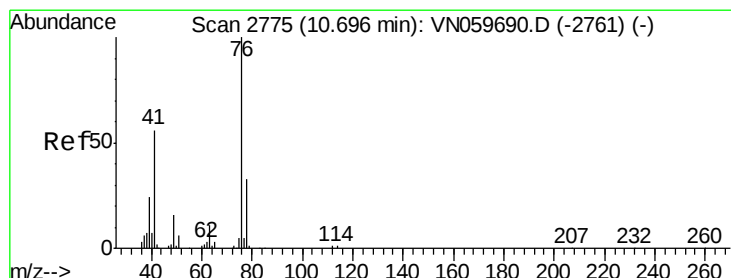
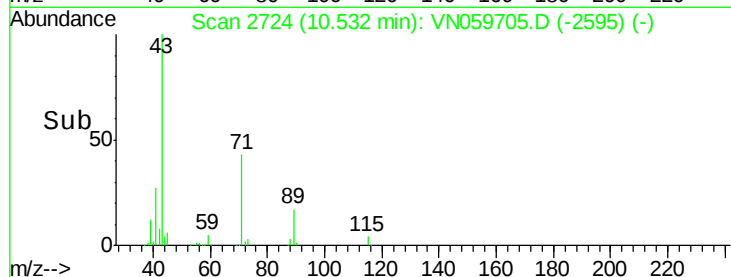
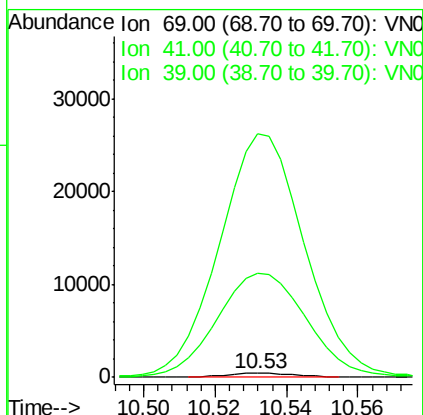
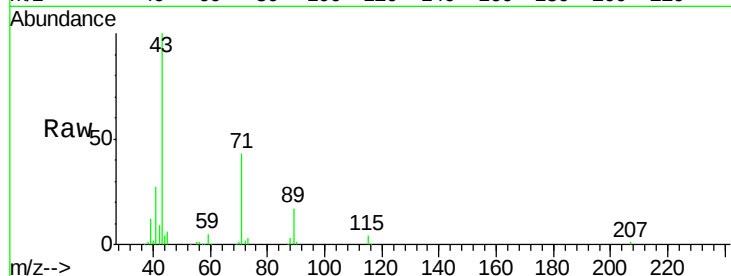




#56
Ethyl methacrylate
Concen: 0.212 ug/l
RT: 10.53 min Scan# 2724
Delta R.T. 0.12 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

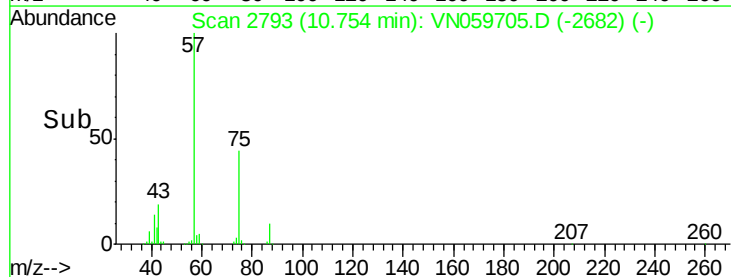
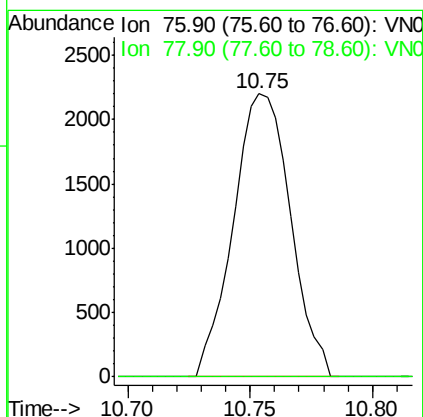
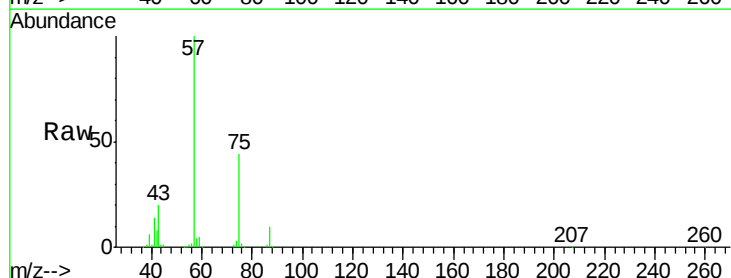
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#21

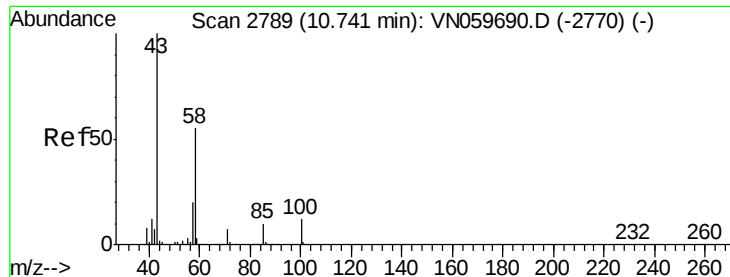
Tgt Ion: 69 Resp: 581
Ion Ratio Lower Upper
69 100
41 7531.2 57.1 85.7#
39 3377.5 34.7 52.1#



#57
1,3-Dichloropropane
Concen: 1.258 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.06 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

Tgt Ion: 76 Resp: 3576
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

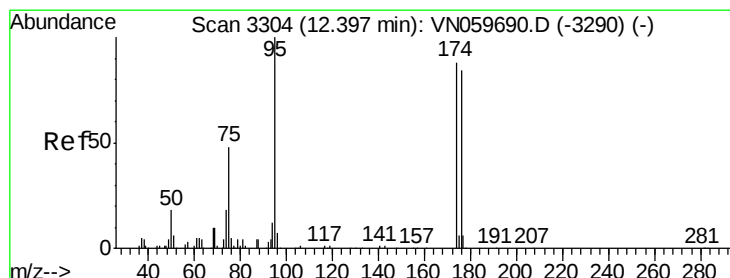
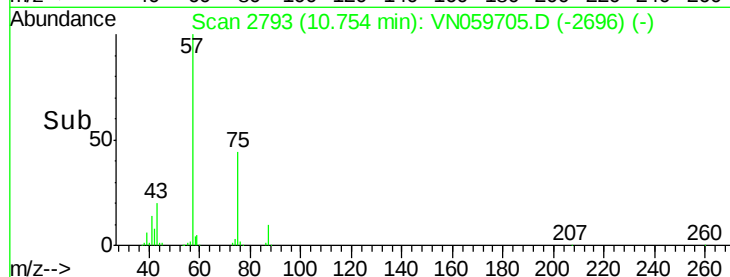
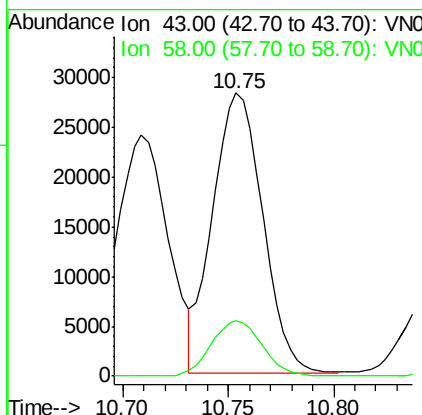
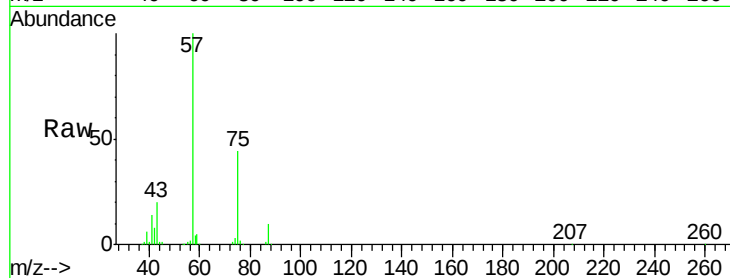




#59
2-Hexanone
Concen: 28.108 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

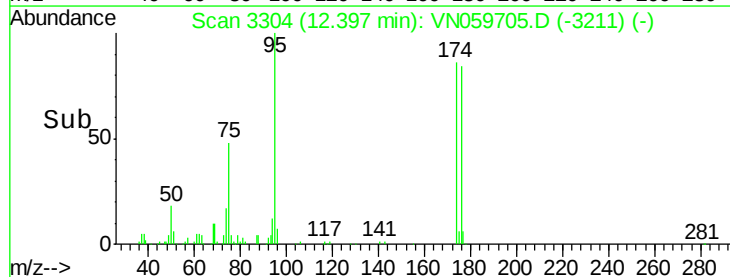
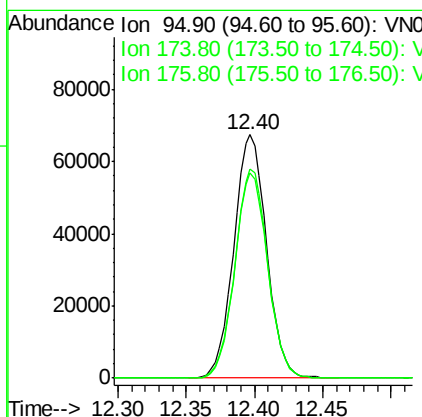
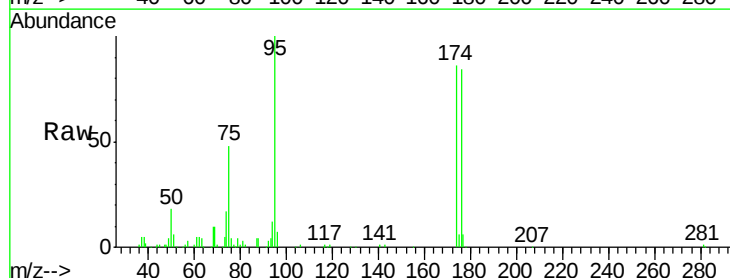
Instrument :
MSVOA_N
ClientSampleId :
PB126072ZHE#21

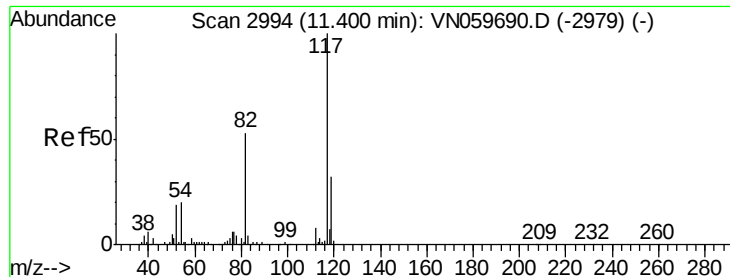
Tgt Ion: 43 Resp: 46355
Ion Ratio Lower Upper
43 100
58 19.9 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 48.856 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059705.D
Acq: 14 Jan 2020 13:59

Tgt Ion: 95 Resp: 112172
Ion Ratio Lower Upper
95 100
174 86.3 0.0 151.4
176 84.6 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#21

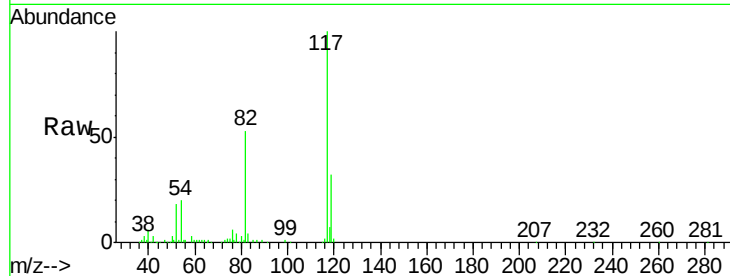
Tgt Ion:117 Resp: 241034

Ion Ratio Lower Upper

117 100

82 53.3 45.9 68.9

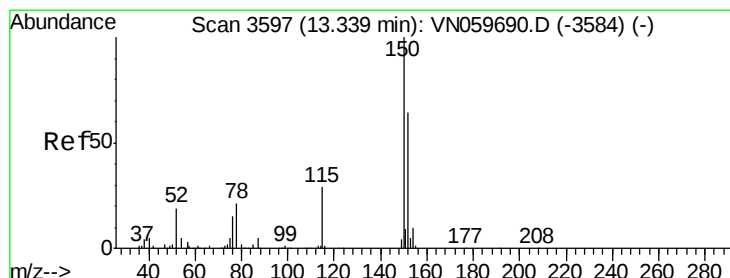
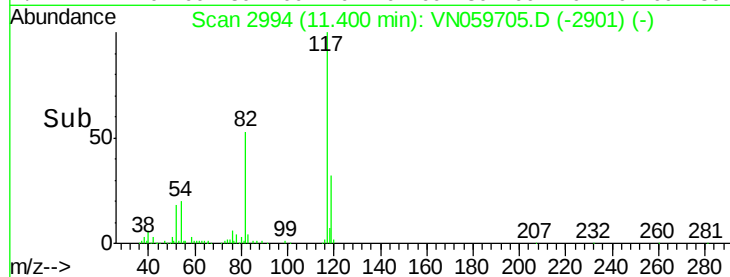
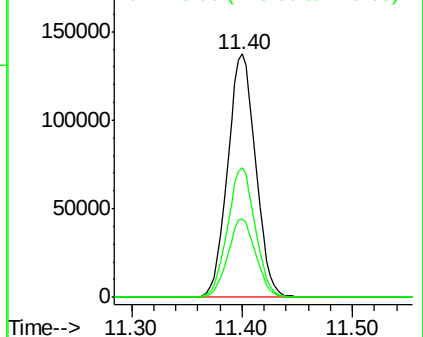
119 32.3 25.5 38.3



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

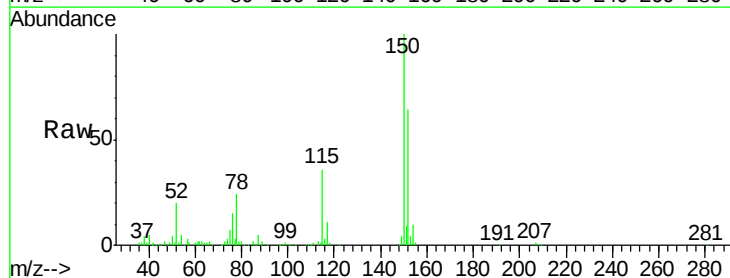
Tgt Ion:152 Resp: 107791

Ion Ratio Lower Upper

152 100

115 56.9 30.3 90.9

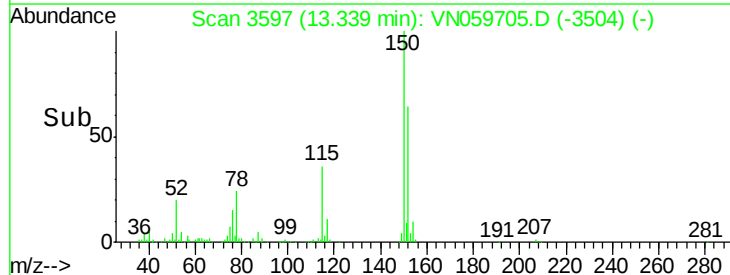
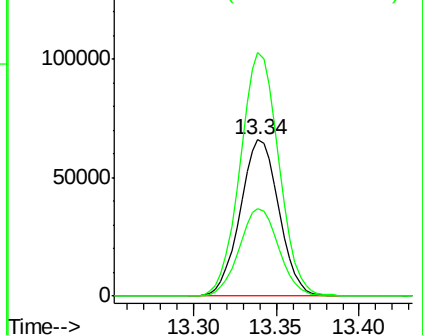
150 155.3 0.0 345.2

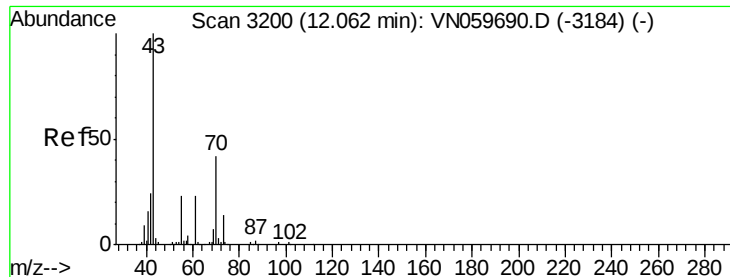


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.539 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#21

Tgt Ion: 43 Resp: 1652

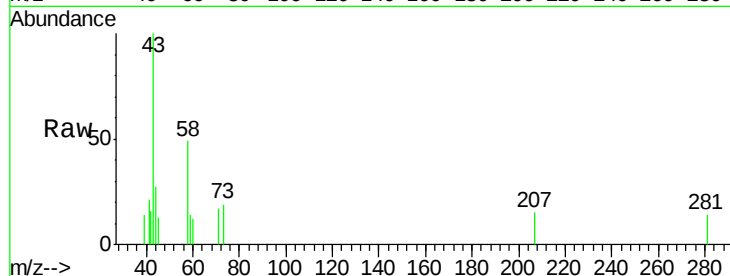
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

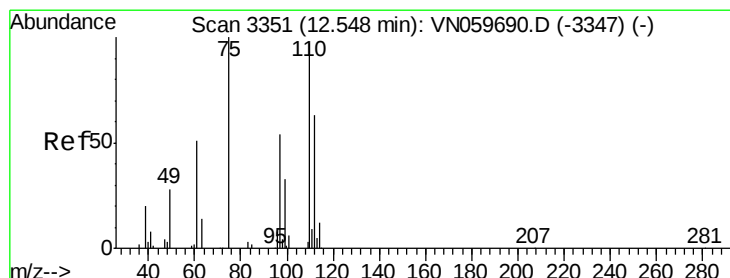
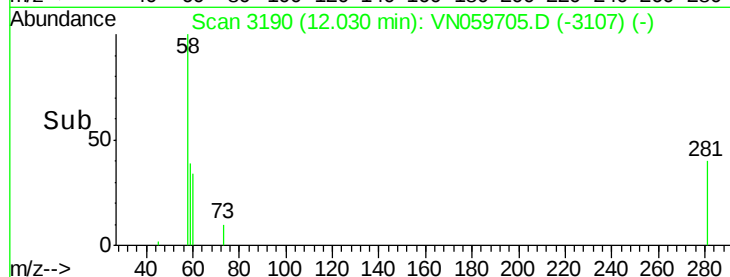
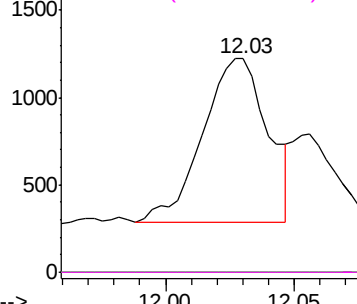


Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC



#76

1,2,3-Trichloropropane

Concen: 30.549 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059705.D

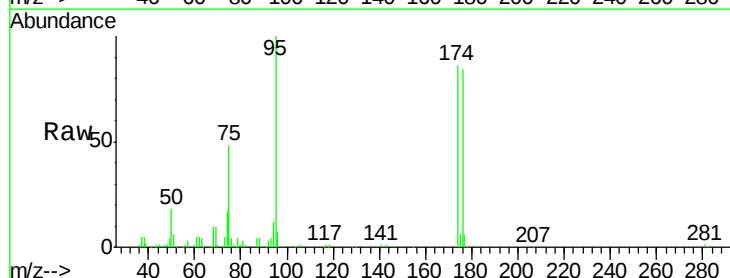
Acq: 14 Jan 2020 13:59

Tgt Ion: 75 Resp: 55417

Ion Ratio Lower Upper

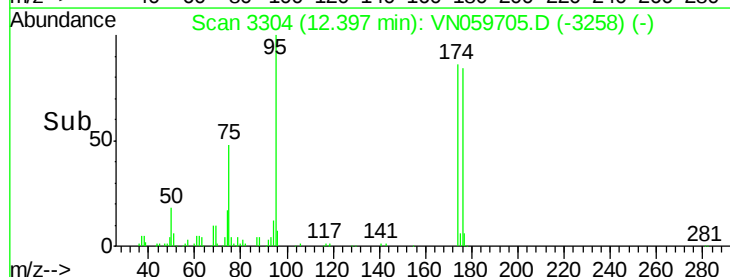
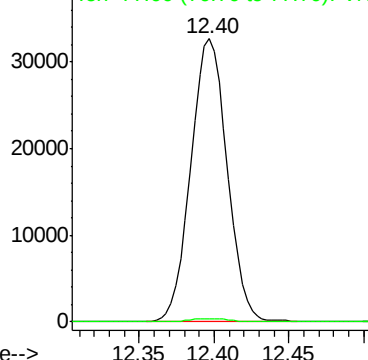
75 100

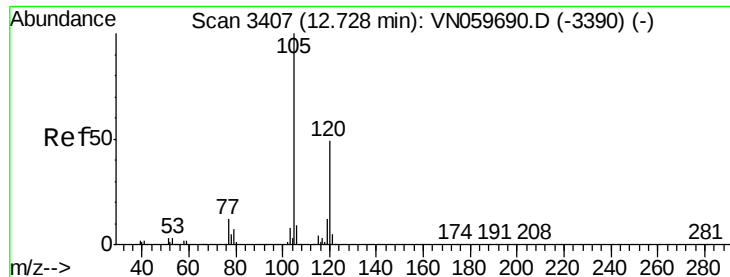
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 77.00 (76.70 to 77.70): VNC





#80

1,3,5-Trimethylbenzene

Concen: 0.570 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

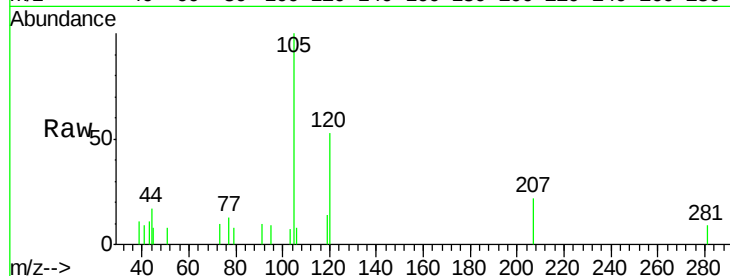
PB126072ZHE#21

Tgt Ion: 105 Resp: 3790

Ion Ratio Lower Upper

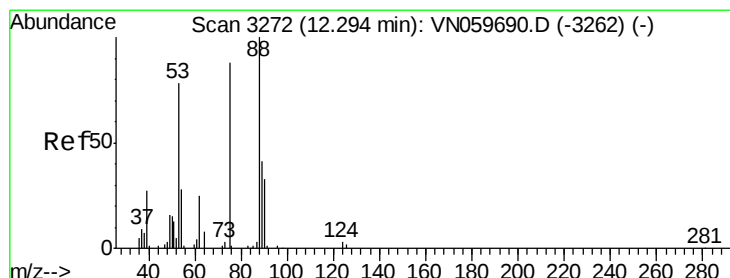
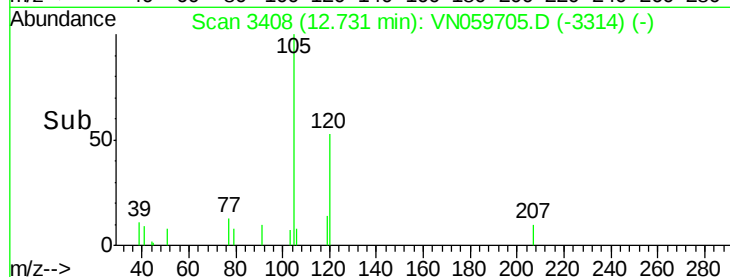
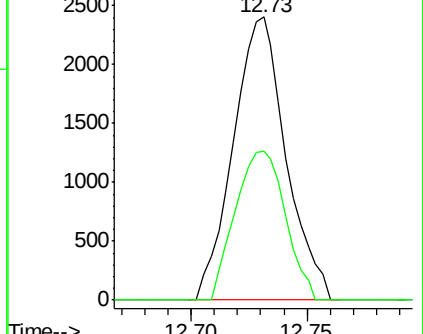
105 100

120 50.0 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.605 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

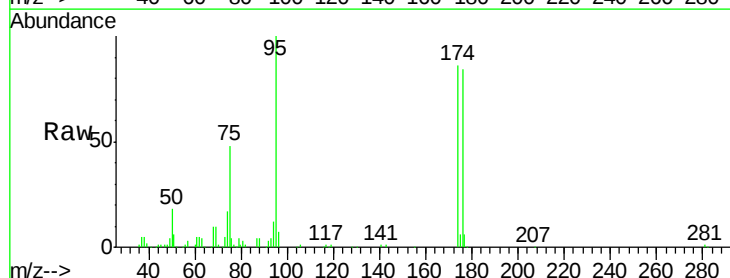
Tgt Ion: 75 Resp: 55417

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

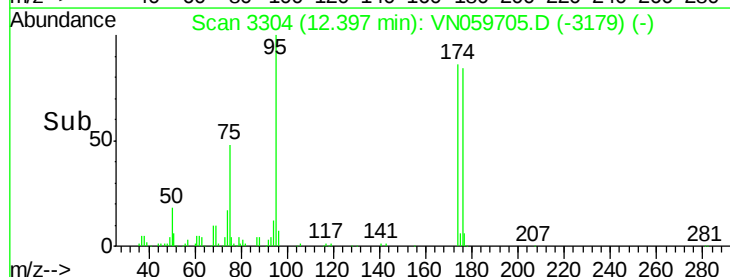
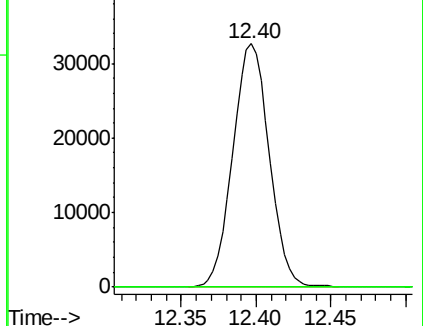
89 0.0 35.4 53.2#

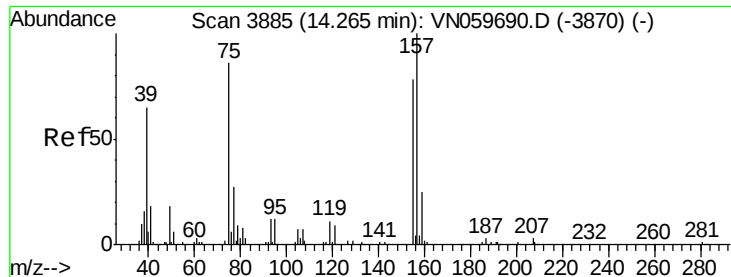


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.24 min Scan# 3876

Delta R.T. -0.03 min

Lab File: VN059705.D

Acq: 14 Jan 2020 13:59

Instrument :

MSVOA_N

ClientSampleId :

PB126072ZHE#21

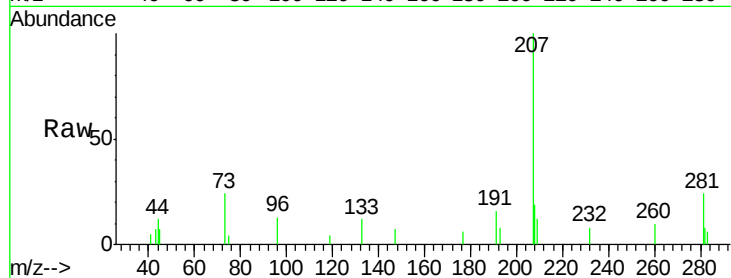
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

