

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030420\
 Data File : VN060347.D
 Acq On : 4 Mar 2020 14:41
 Operator : JC/MD
 Sample : PB127249ZHE#16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127249ZHE#16

Quant Time: Mar 05 05:10:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	190652	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	312970	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139450	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	125467	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	7.57	113	83679	57.60	ug/l	0.00
Spiked Amount			Recovery	=	115.20%	
50) Toluene-d8	10.08	98	385974	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.40	95	144233	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	

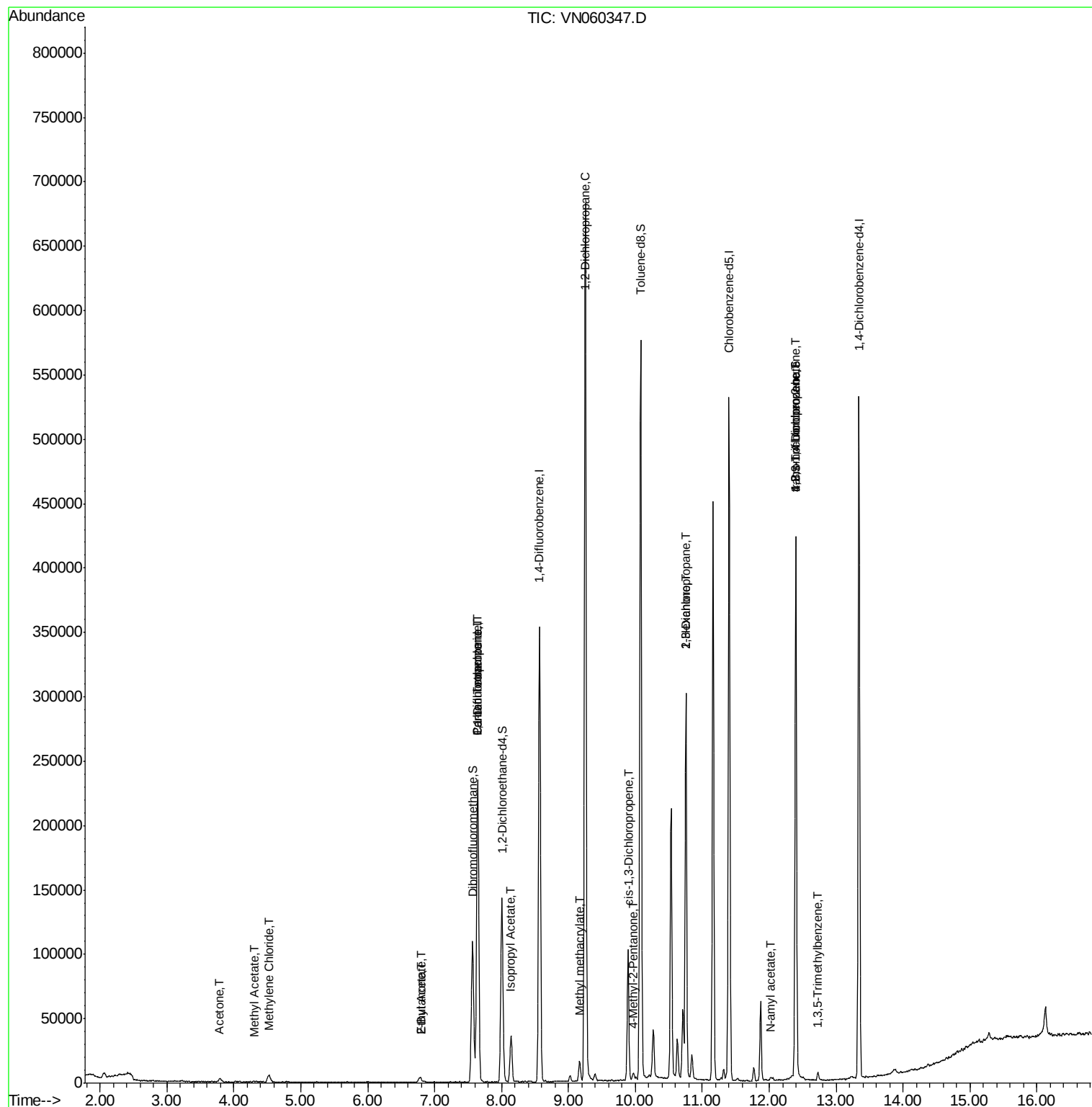
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.86	96	29	Below Cal	#	1
16) Acetone	3.79	43	5488	6.948	ug/l	92
18) Methyl Acetate	4.30	43	1129	0.428	ug/l #	52
20) Methylene Chloride	4.53	84	4371	2.015	ug/l	97
25) 2-Butanone	6.81	43	1425	1.117	ug/l #	49
31) Cyclohexane	7.64	56	4114	Below Cal	#	14
36) 1,1-Dichloropropene	7.64	75	15195	5.094	ug/l #	49
37) Ethyl Acetate	6.81	43	1425	0.505	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18613	6.409	ug/l #	16
43) Isopropyl Acetate	8.14	43	42518	8.599	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	799	0.352	ug/l #	44
48) Methyl methacrylate	9.16	41	2526	1.120	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3937	1.404	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	17889	4.704	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2951	0.825	ug/l #	42
59) 2-Hexanone	10.75	43	44466	21.603	ug/l #	51
74) N-amyl acetate	12.02	43	2817	0.624	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	75065	24.535	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3620	0.416	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	75065	67.727	ug/l #	8
87) 1,3-Dichlorobenzene	13.36	146	122	Below Cal	#	45
88) 1,4-Dichlorobenzene	13.36	146	122	Below Cal	#	45
95) Naphthalene	15.13	128	392	Below Cal	#	69

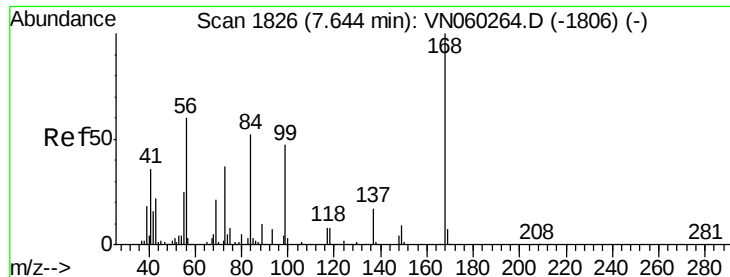
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 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: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

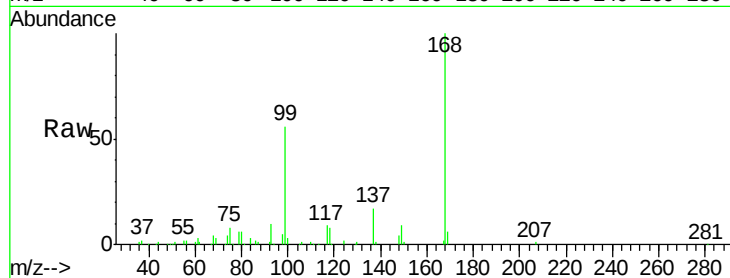
PB127249ZHE#16

Tgt Ion:168 Resp: 190652

Ion Ratio Lower Upper

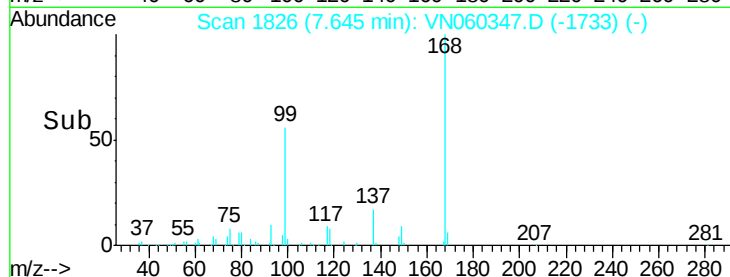
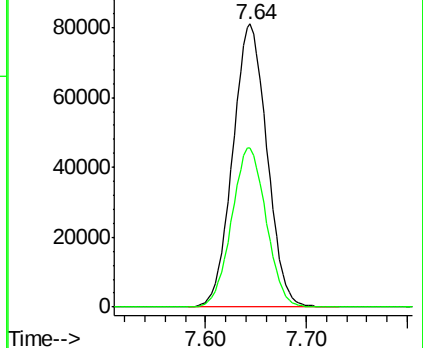
168 100

99 56.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.948 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060347.D

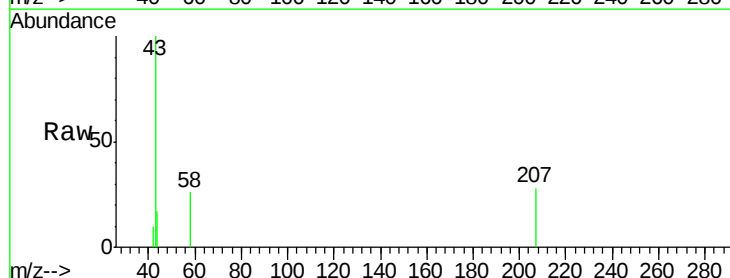
Acq: 4 Mar 2020 14:41

Tgt Ion: 43 Resp: 5488

Ion Ratio Lower Upper

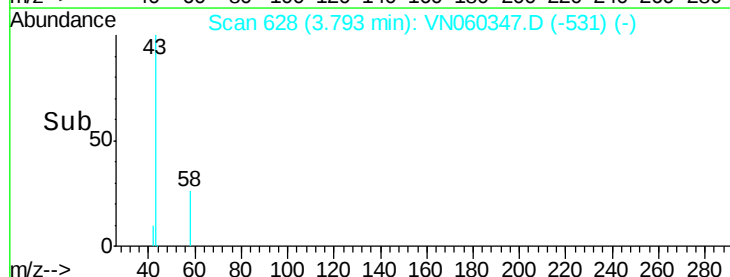
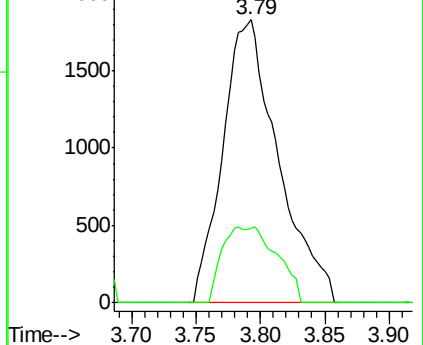
43 100

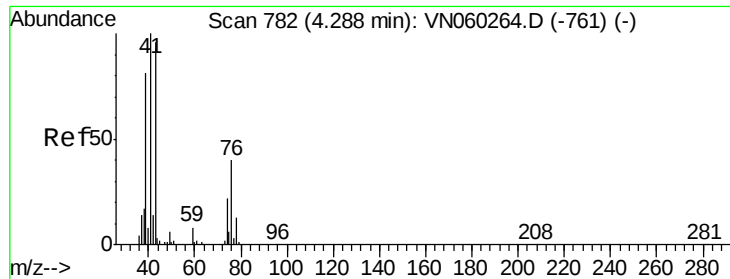
58 26.5 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

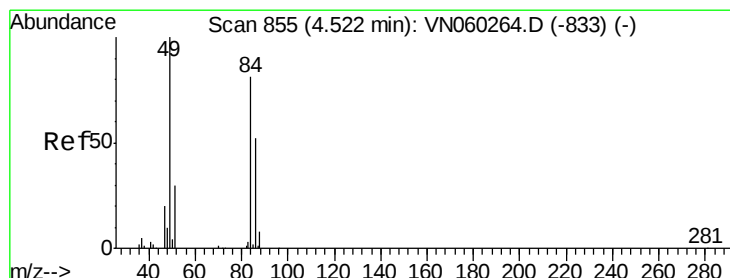
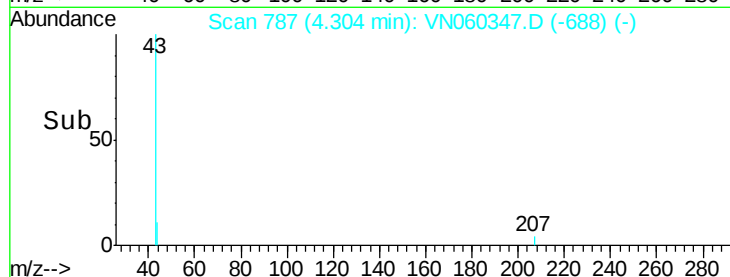
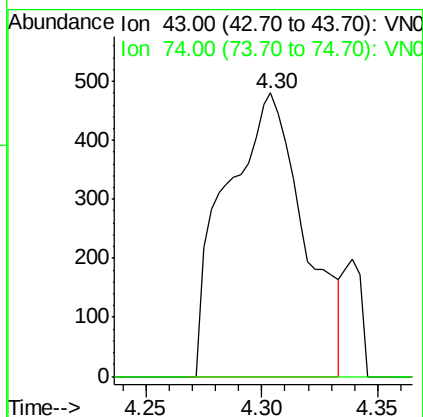
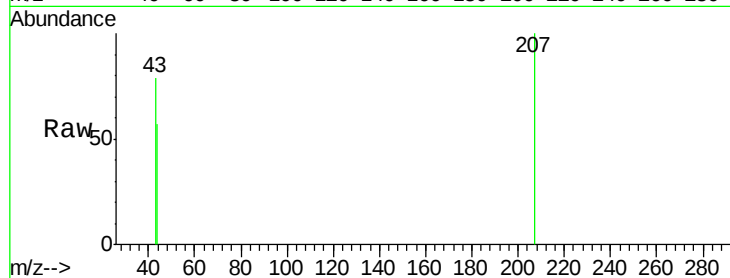




#18
Methyl Acetate
Concen: 0.428 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

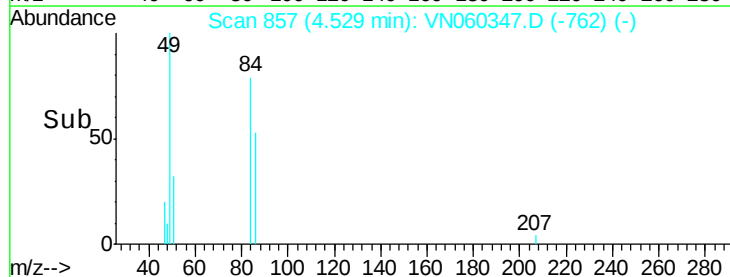
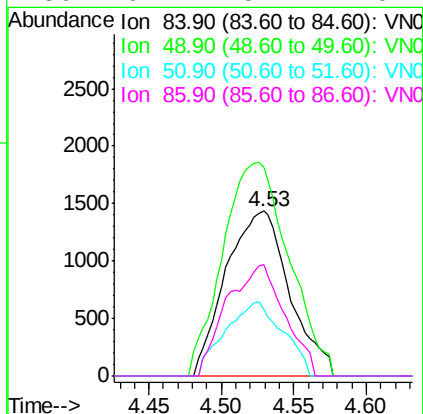
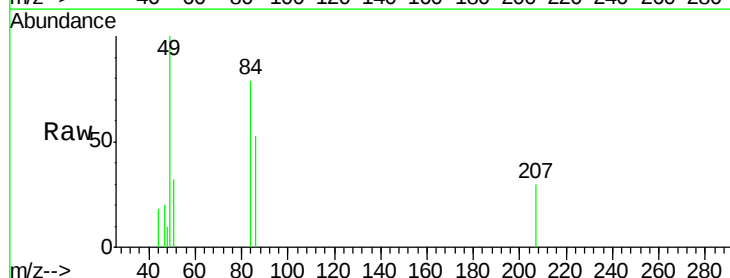
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#16

Tgt Ion: 43 Resp: 1129
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.015 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Tgt Ion: 84 Resp: 4371
Ion Ratio Lower Upper
84 100
49 126.5 99.3 148.9
51 40.6 30.1 45.1
86 67.4 51.1 76.7

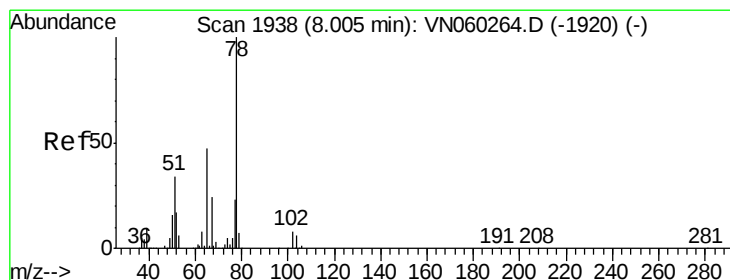
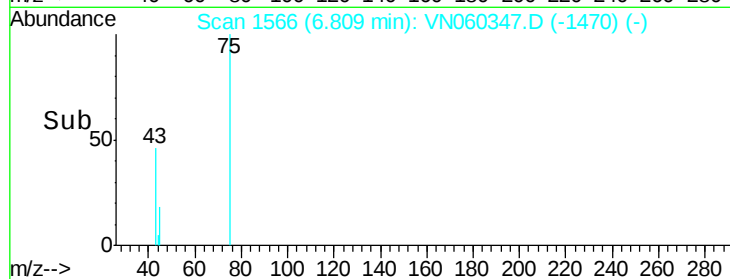
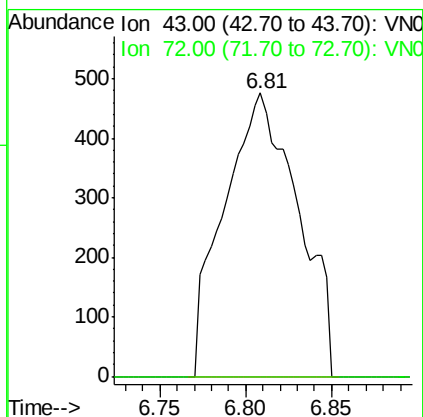
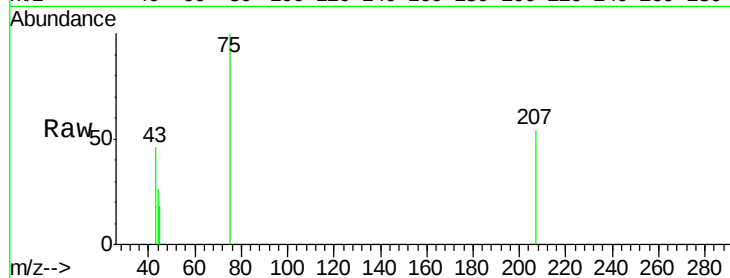




#25
 2-Butanone
 Concen: 1.117 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: VN060347.D
 Acq: 4 Mar 2020 14:41

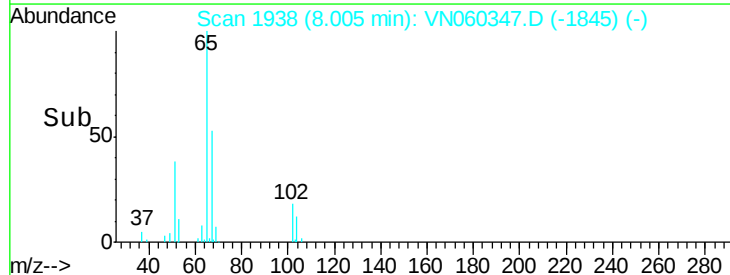
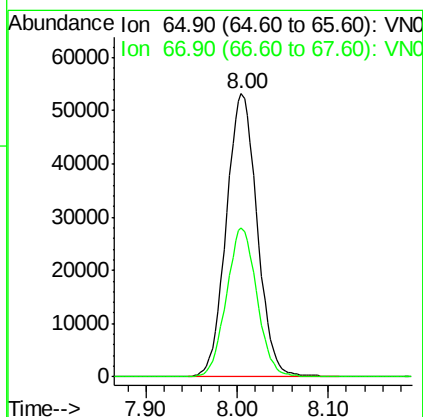
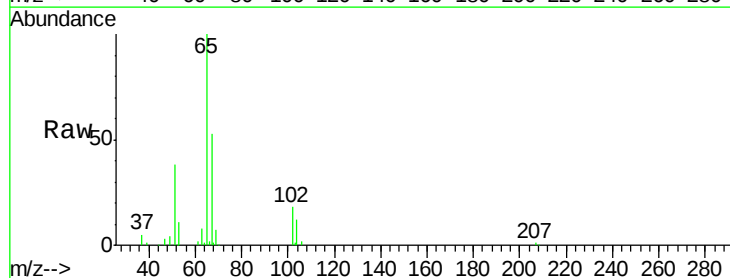
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127249ZHE#16

Tgt Ion: 43 Resp: 1425
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 51.293 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060347.D
 Acq: 4 Mar 2020 14:41

Tgt Ion: 65 Resp: 125467
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.8

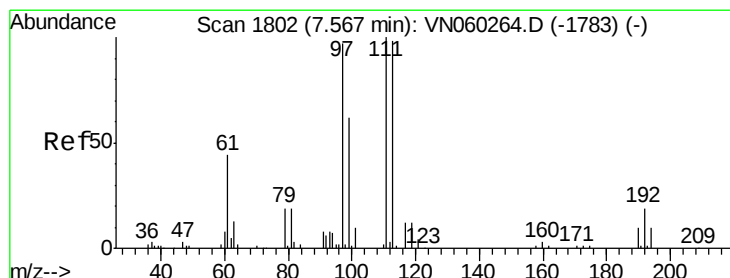
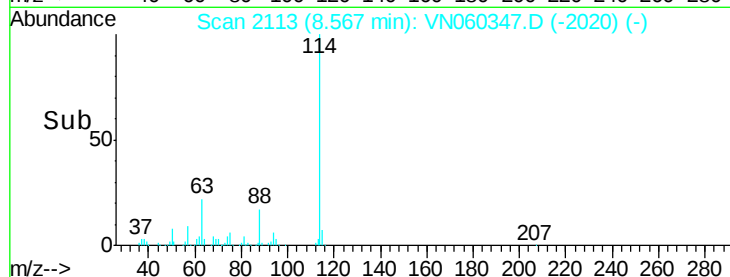
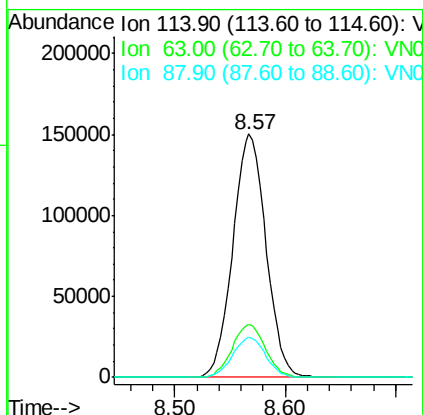
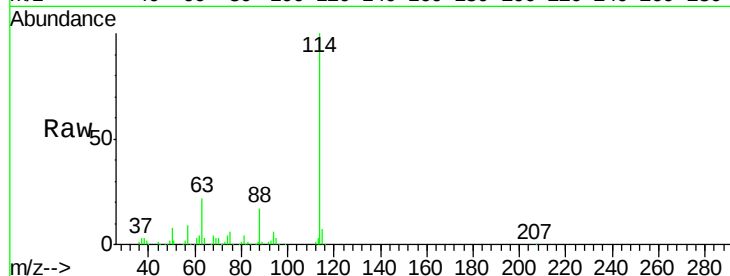




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

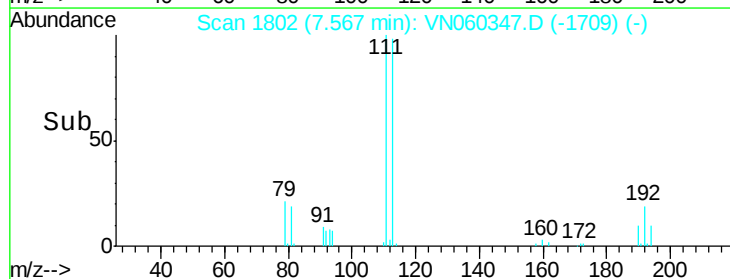
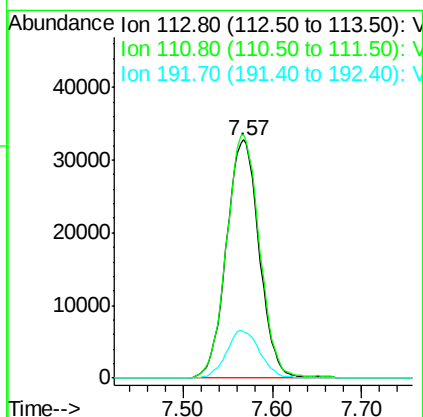
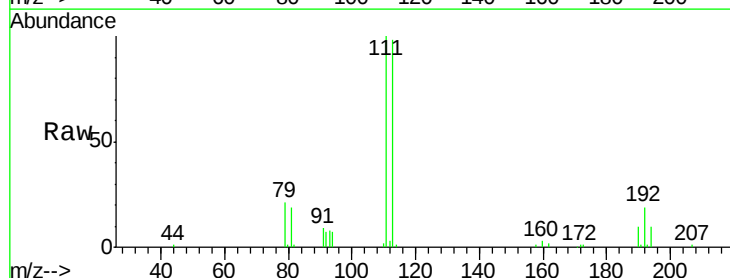
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#16

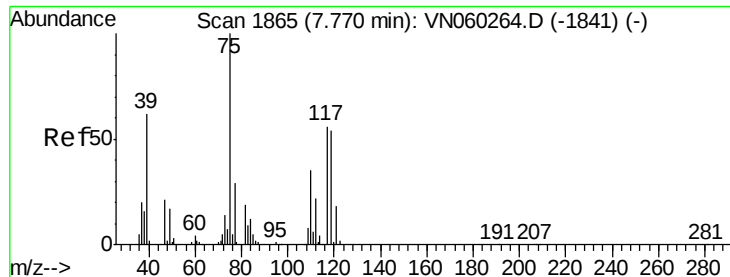
Tgt Ion:114 Resp: 312970
Ion Ratio Lower Upper
114 100
63 21.6 0.0 43.2
88 16.5 0.0 31.6



#35
Dibromofluoromethane
Concen: 57.602 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Tgt Ion:113 Resp: 83679
Ion Ratio Lower Upper
113 100
111 102.5 82.4 123.6
192 20.3 16.2 24.2





#36

1,1-Dichloropropene

Concen: 5.094 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#16

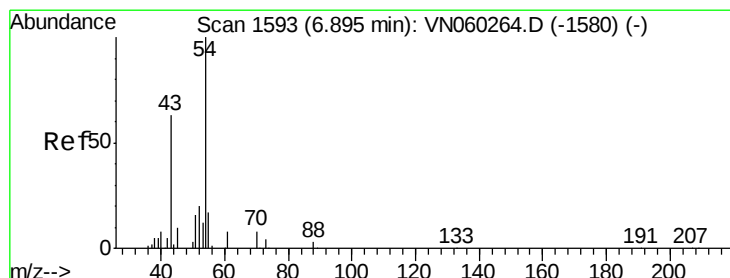
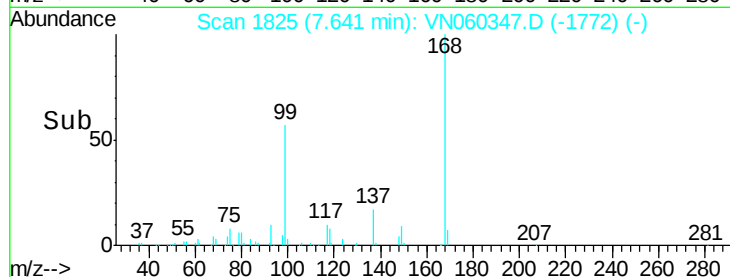
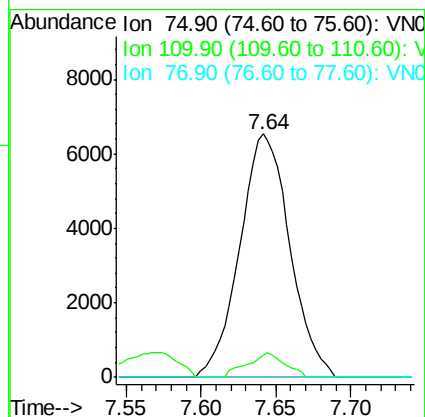
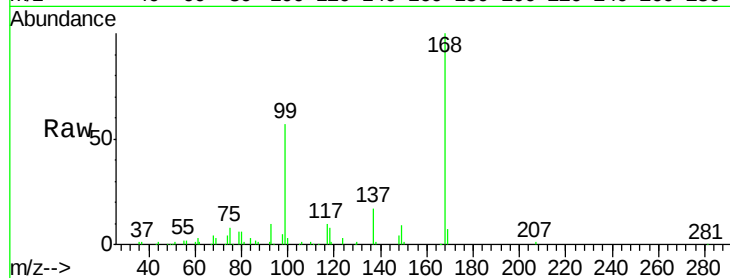
Tgt Ion: 75 Resp: 15195

Ion Ratio Lower Upper

75 100

110 7.5 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.505 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

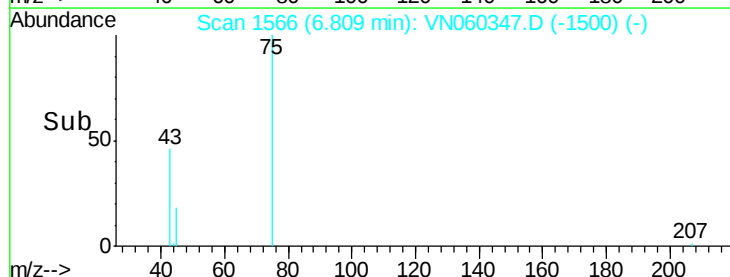
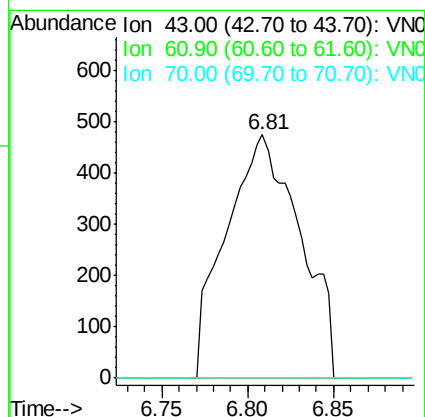
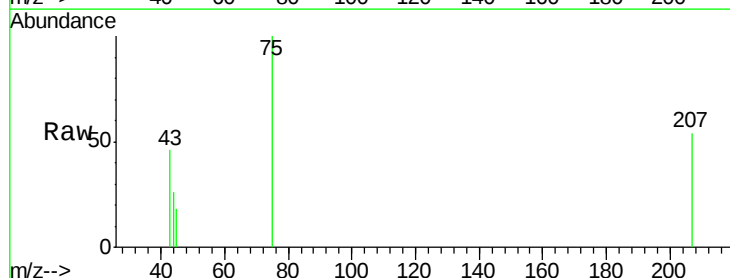
Tgt Ion: 43 Resp: 1425

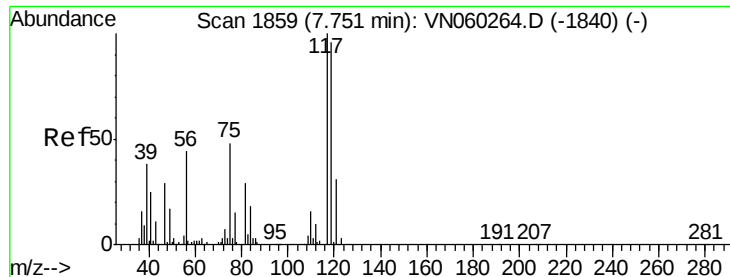
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.409 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

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MSVOA_N

ClientSampleId :

PB127249ZHE#16

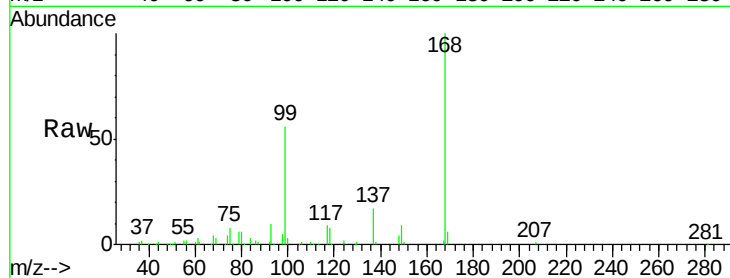
Tgt Ion:117 Resp: 18613

Ion Ratio Lower Upper

117 100

119 5.0 76.7 115.1#

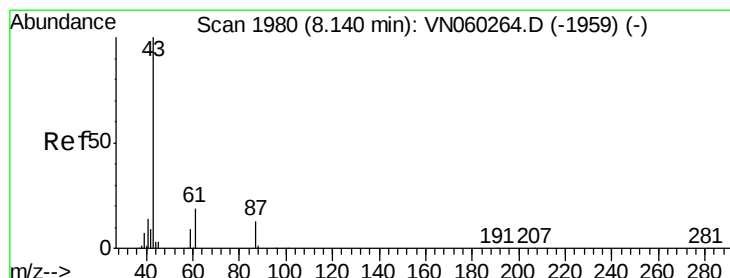
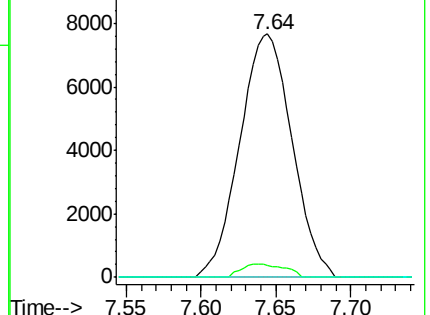
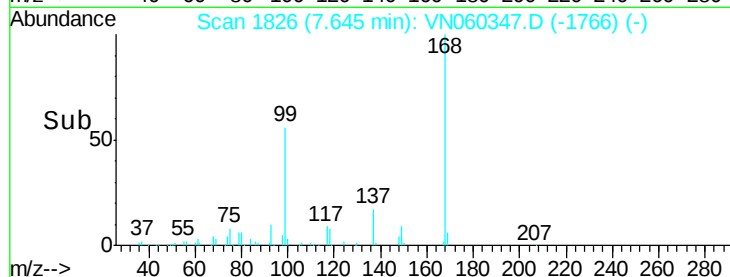
121 0.0 24.5 36.7#



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: 8.599 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

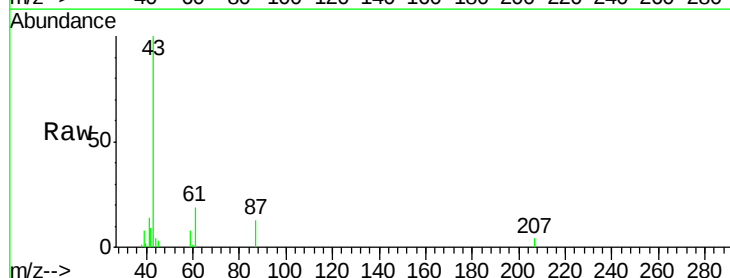
Tgt Ion: 43 Resp: 42518

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

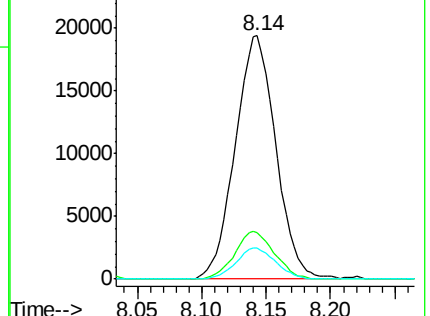
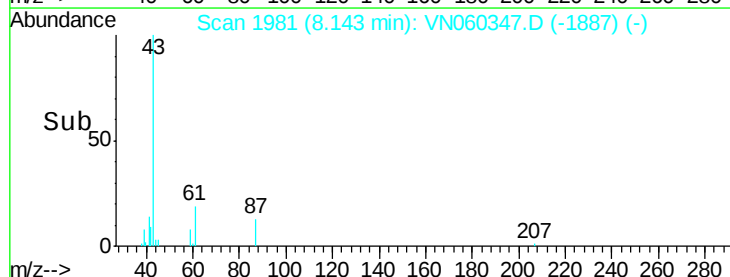
87 12.4 10.6 16.0

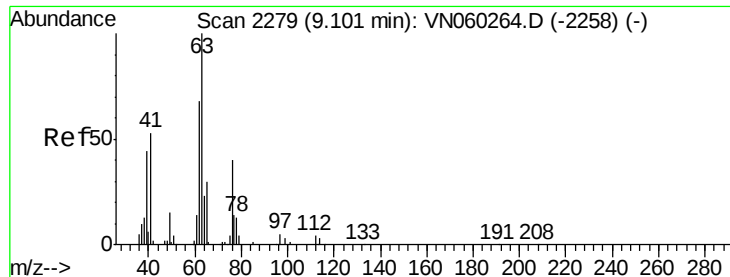


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.352 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

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ClientSampleId :

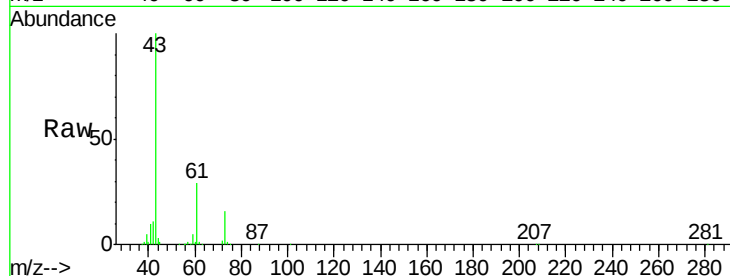
PB127249ZHE#16

Tgt Ion: 63 Resp: 799

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.25

500

400

300

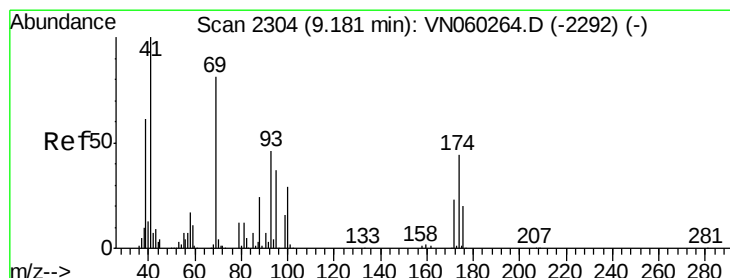
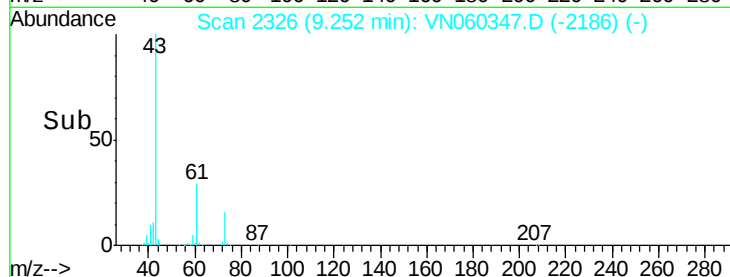
200

100

0

9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.120 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

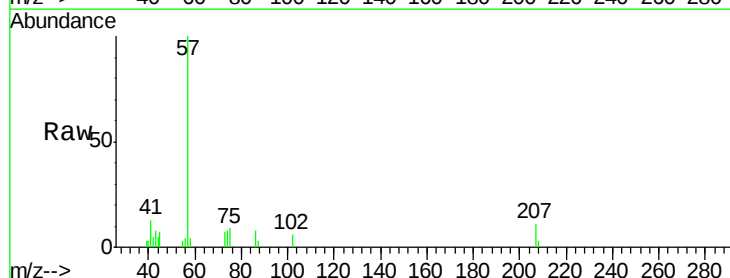
Tgt Ion: 41 Resp: 2526

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

30000

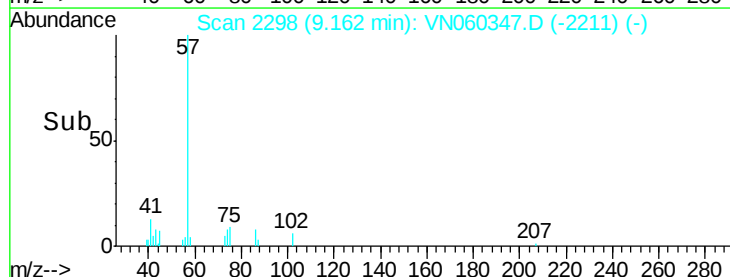
20000

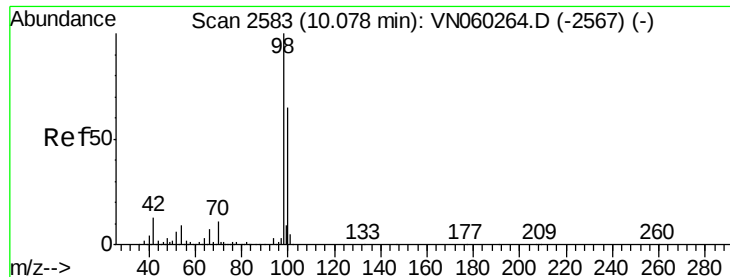
10000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 52.497 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

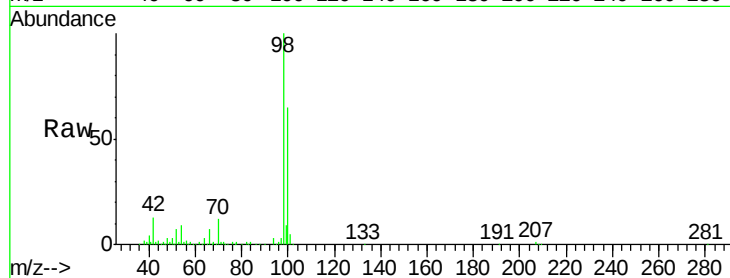
PB127249ZHE#16

Tgt Ion: 98 Resp: 385974

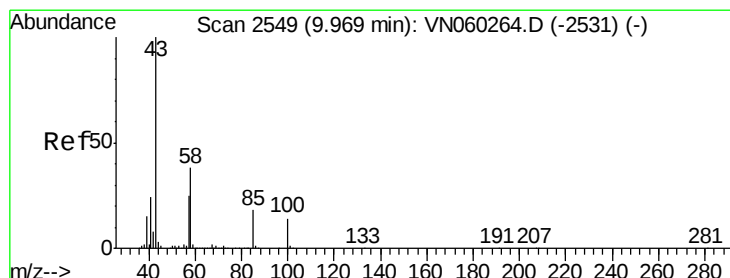
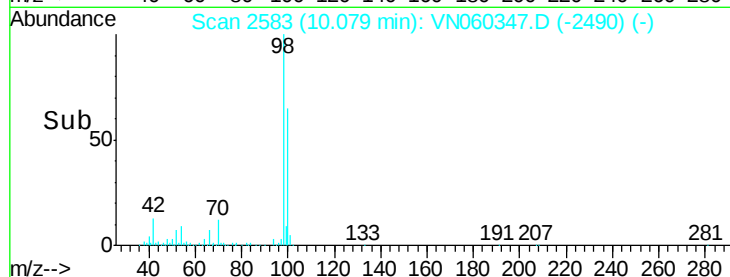
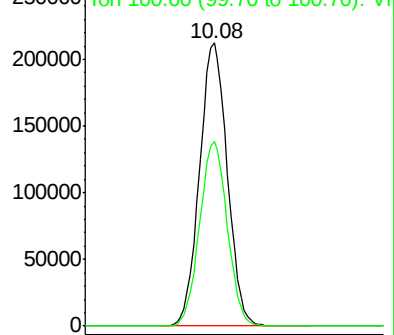
Ion Ratio Lower Upper

98 100

100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060264.D (-2567) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.404 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060347.D

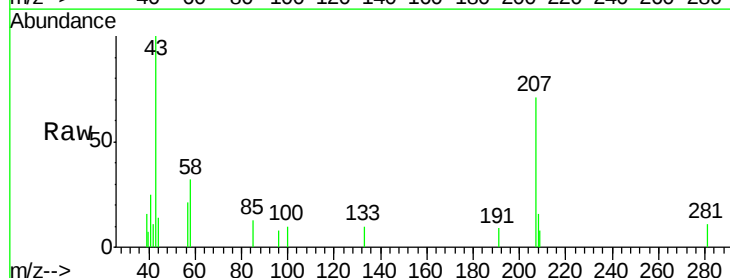
Acq: 4 Mar 2020 14:41

Tgt Ion: 43 Resp: 3937

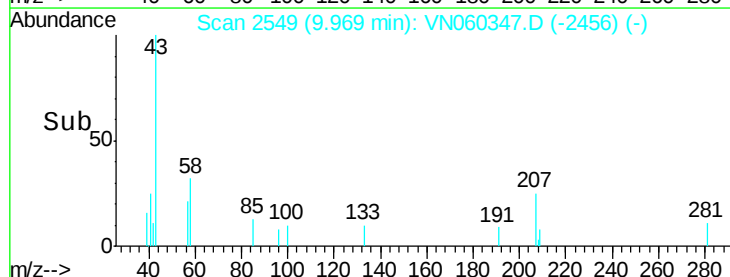
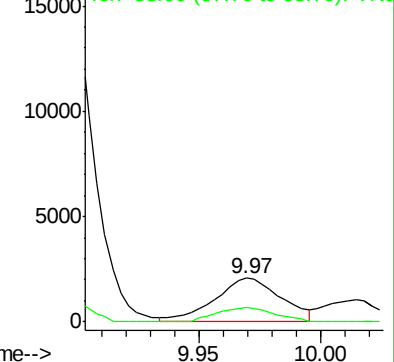
Ion Ratio Lower Upper

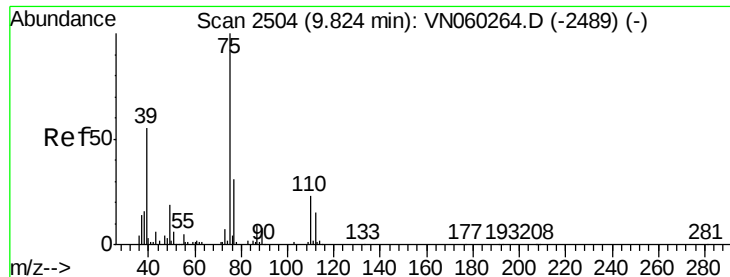
43 100

58 28.9 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)





#54

cis-1,3-Dichloropropene

Concen: 4.704 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#16

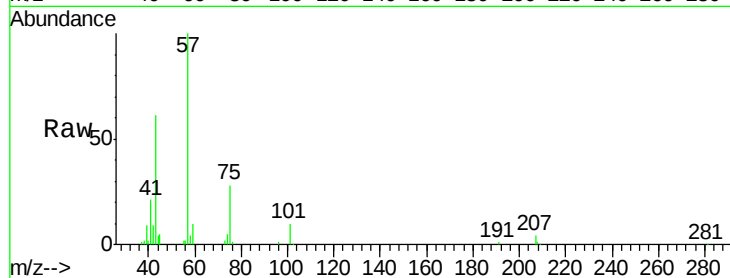
Tgt Ion: 75 Resp: 17889

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

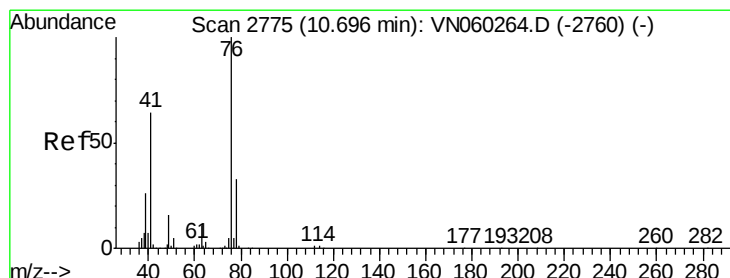
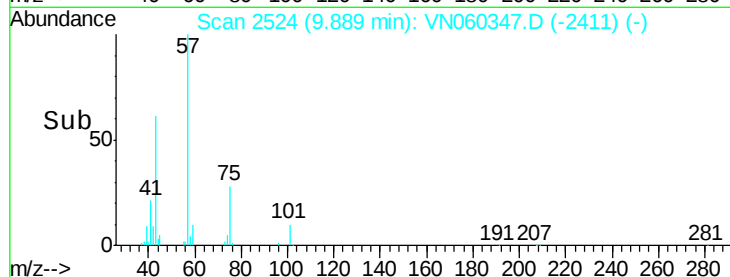
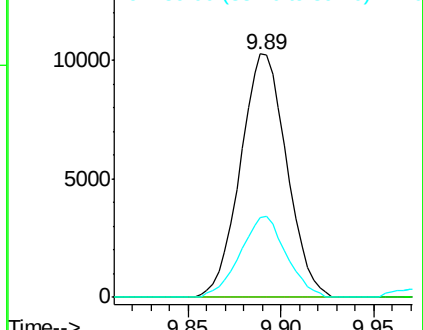
39 32.9 43.8 65.8#



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



#57

1,3-Dichloropropane

Concen: 0.825 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060347.D

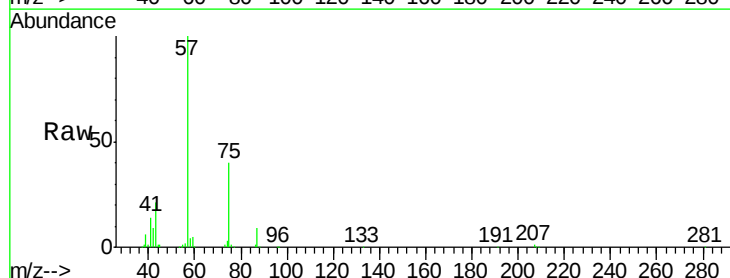
Acq: 4 Mar 2020 14:41

Tgt Ion: 76 Resp: 2951

Ion Ratio Lower Upper

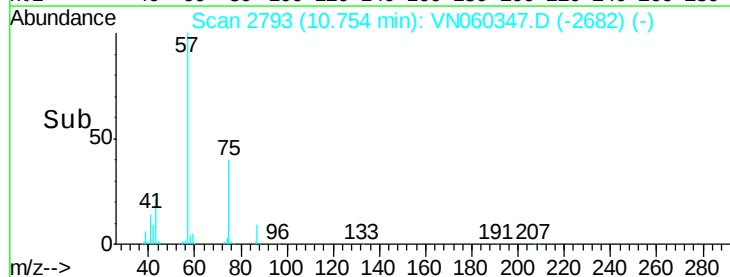
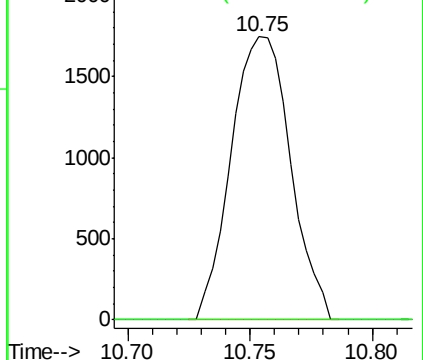
76 100

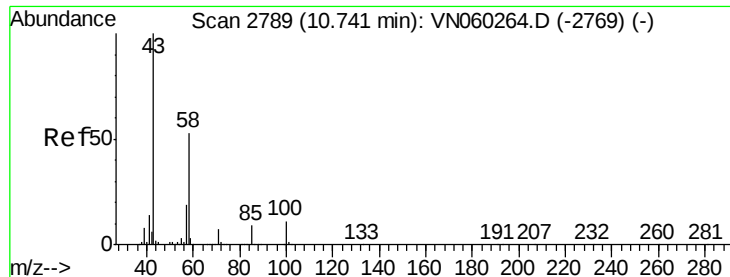
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

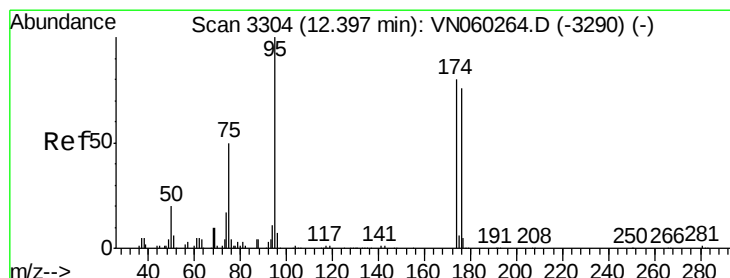
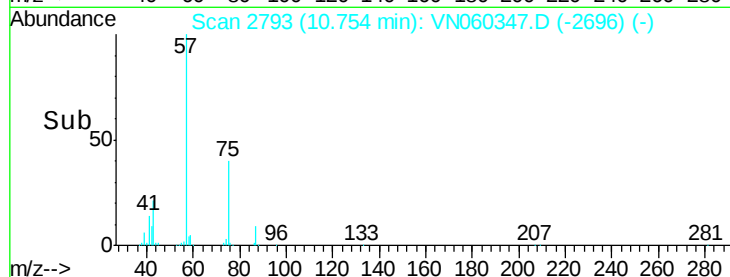
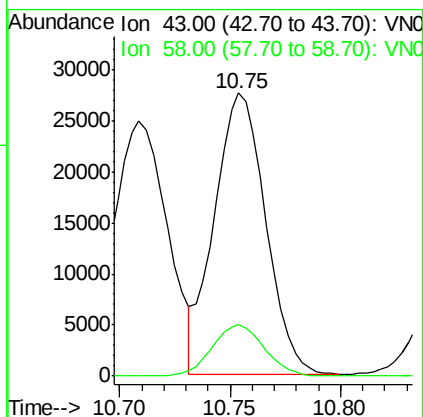
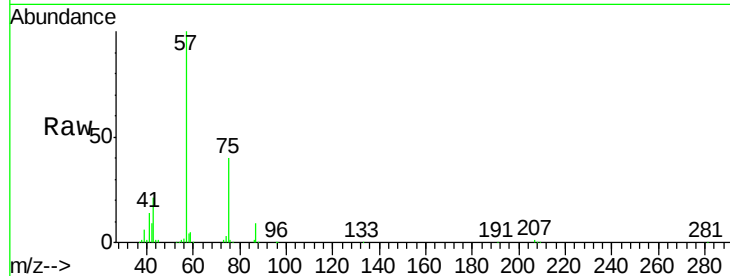




#59
2-Hexanone
Concen: 21.603 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

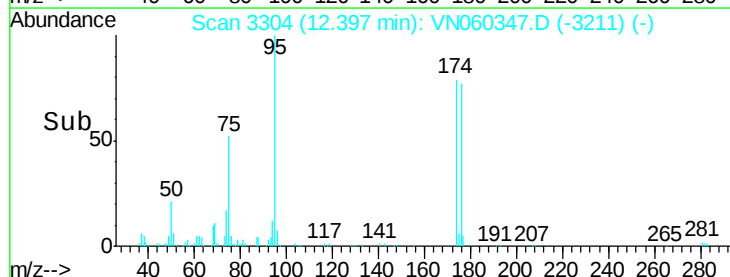
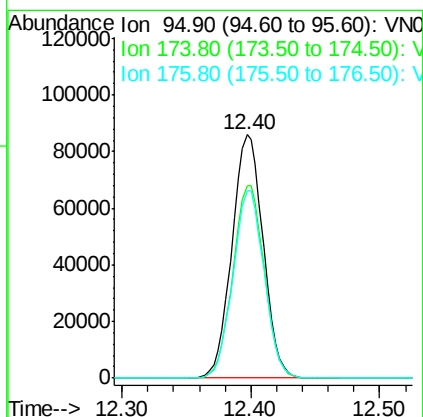
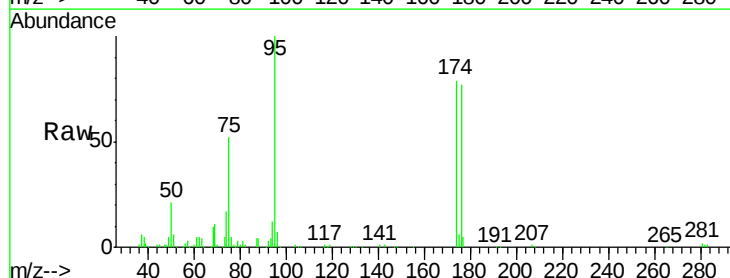
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#16

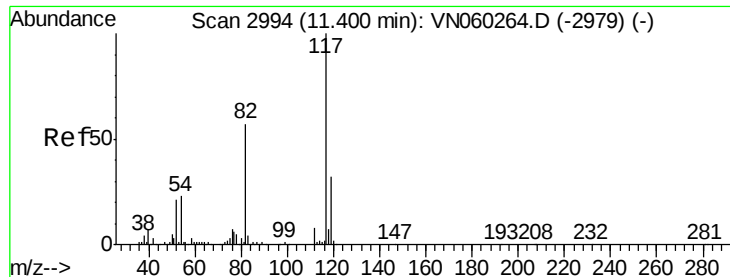
Tgt Ion: 43 Resp: 44466
Ion Ratio Lower Upper
43 100
58 18.4 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 51.750 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Tgt Ion: 95 Resp: 144233
Ion Ratio Lower Upper
95 100
174 79.7 0.0 159.2
176 77.2 0.0 153.8

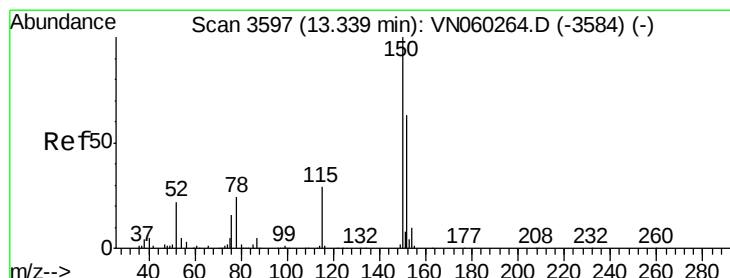
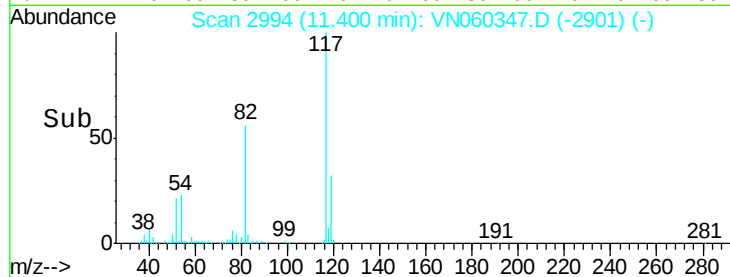
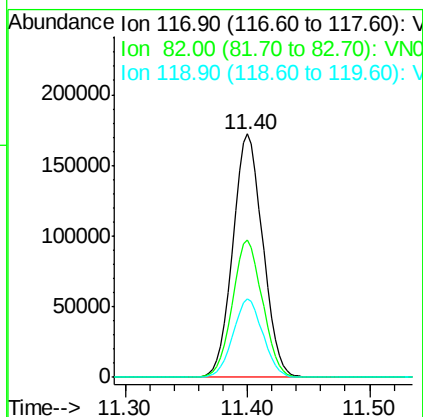
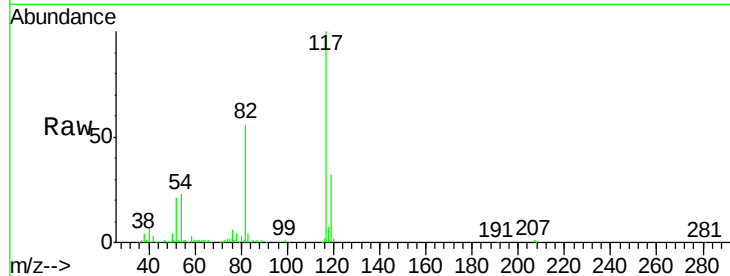




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

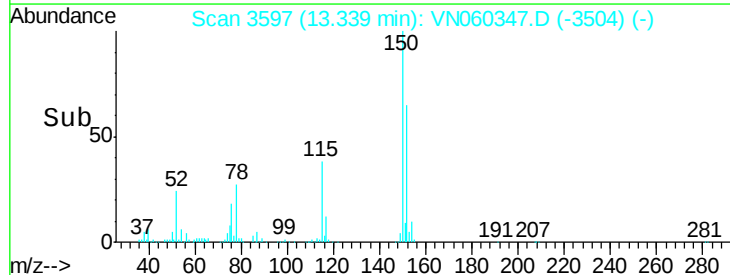
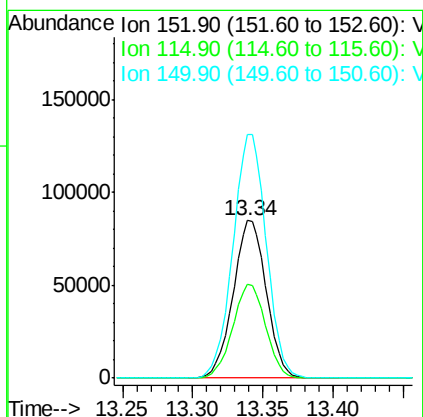
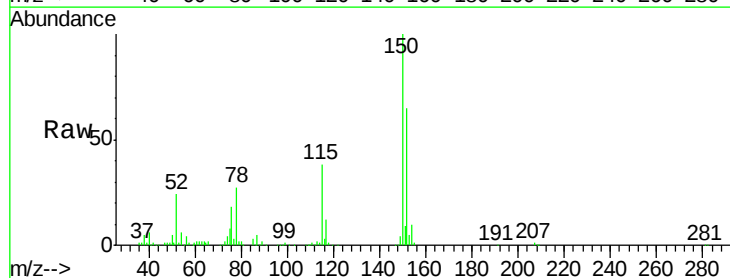
Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#16

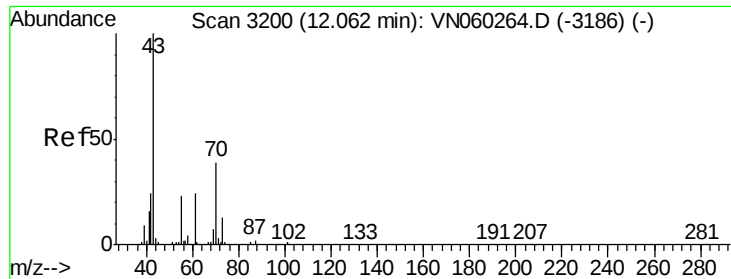
Tgt Ion:117 Resp: 293047
Ion Ratio Lower Upper
117 100
82 56.4 45.8 68.6
119 32.2 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Tgt Ion:152 Resp: 139450
Ion Ratio Lower Upper
152 100
115 59.3 30.0 90.0
150 155.8 0.0 349.6





#74

N-ethyl acetate

Concen: 0.624 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060347.D

Acq: 4 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

PB127249ZHE#16

Tgt Ion: 43 Resp: 2817

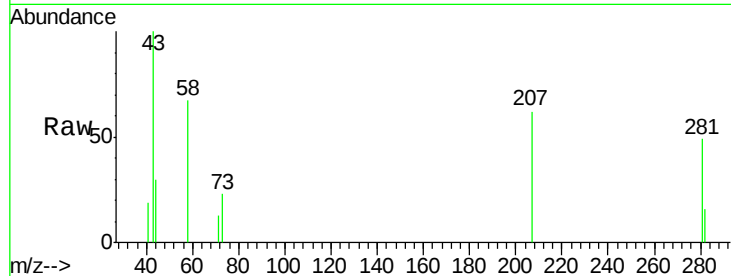
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

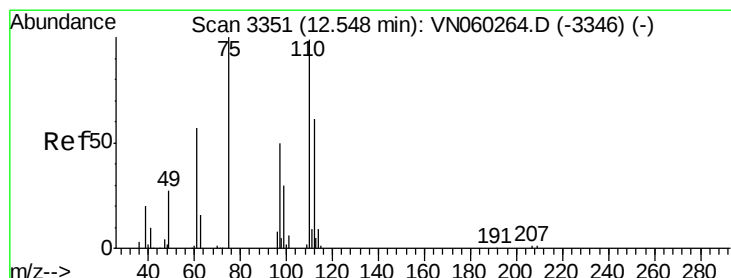
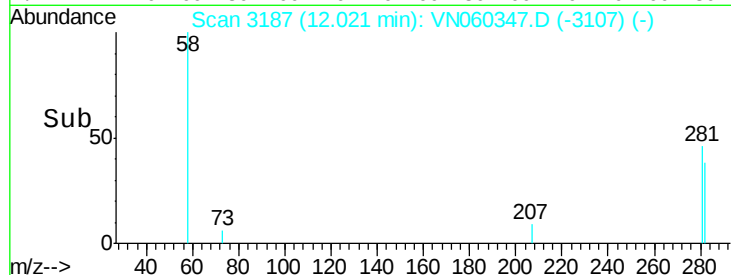
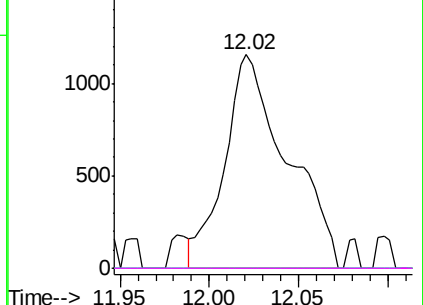


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.535 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060347.D

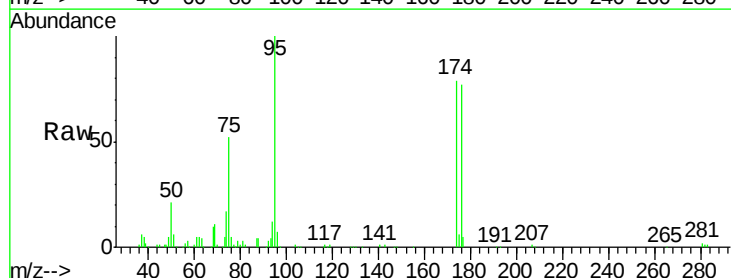
Acq: 4 Mar 2020 14:41

Tgt Ion: 75 Resp: 75065

Ion Ratio Lower Upper

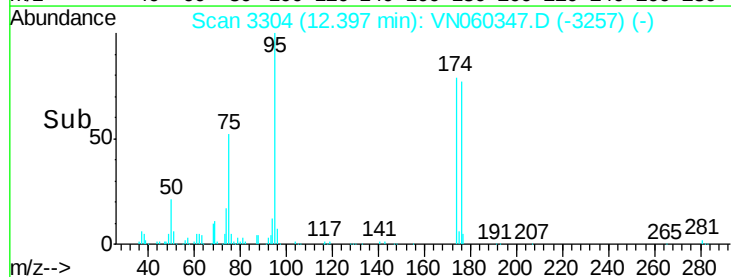
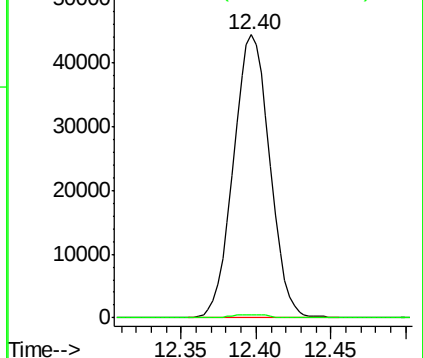
75 100

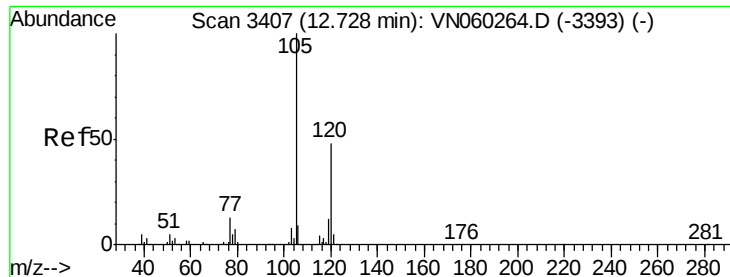
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

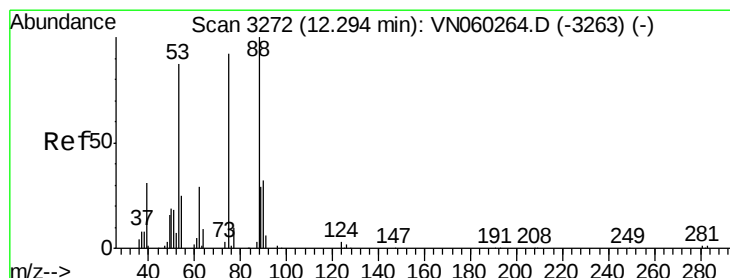
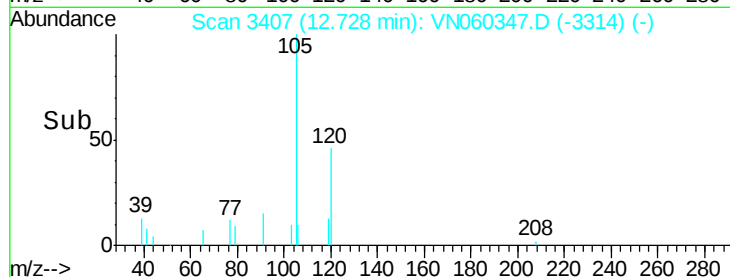
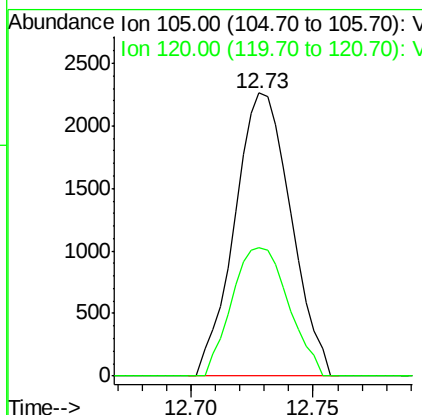
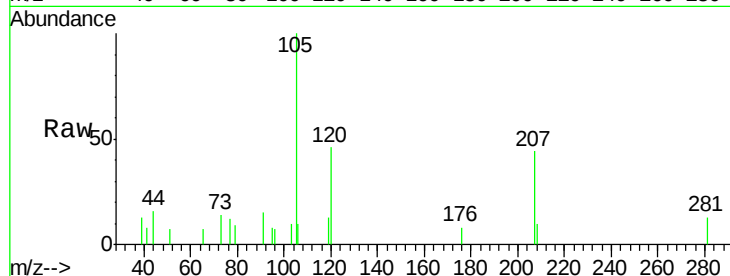




#80
 1,3,5-Trimethylbenzene
 Concen: 0.416 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060347.D
 Acq: 4 Mar 2020 14:41

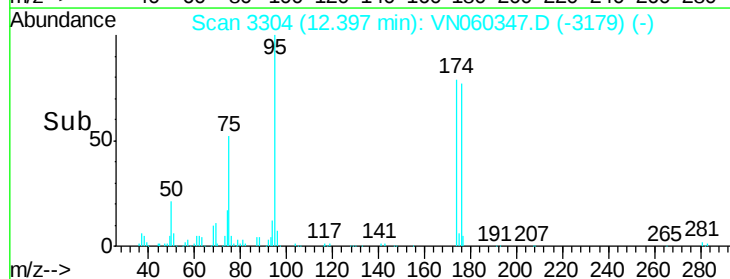
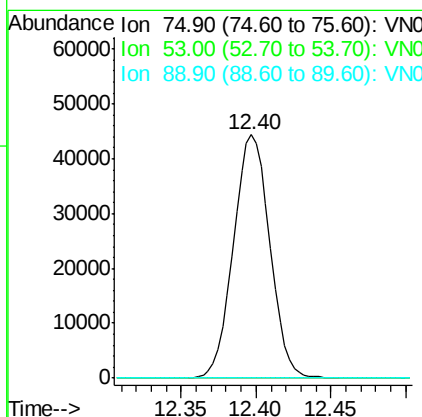
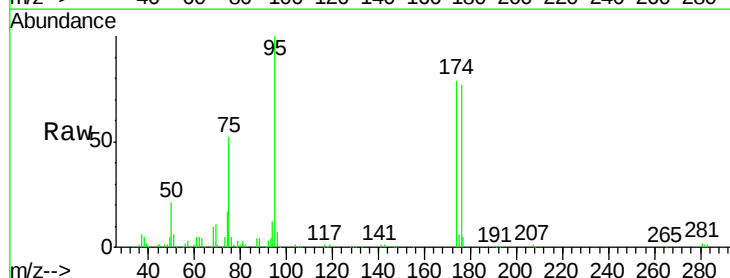
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127249ZHE#16

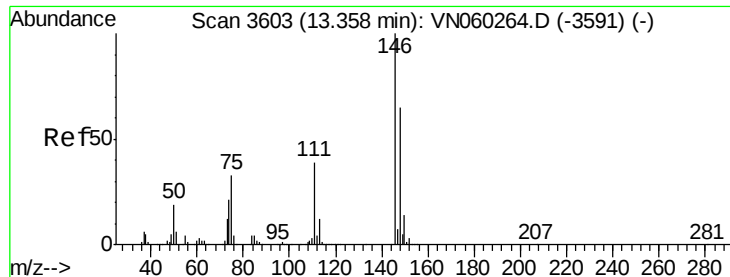
Tgt Ion: 105 Resp: 3620
 Ion Ratio Lower Upper
 105 100
 120 45.6 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.727 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060347.D
 Acq: 4 Mar 2020 14:41

Tgt Ion: 75 Resp: 75065
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.8 110.6#
 89 0.0 57.1 85.7#

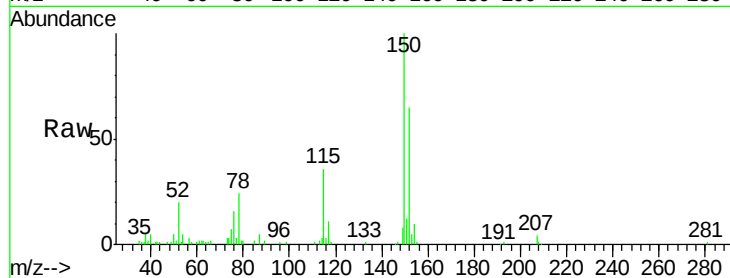




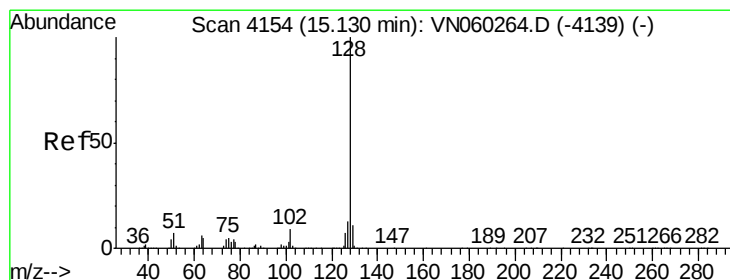
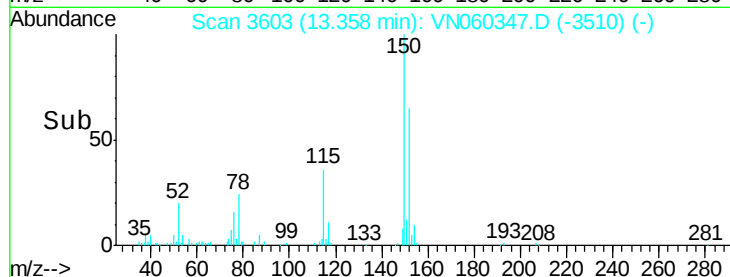
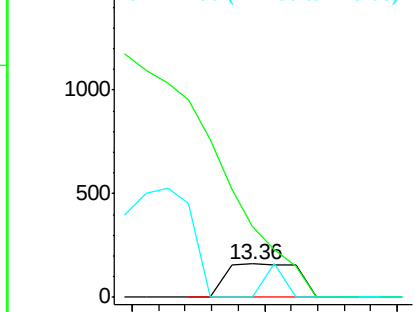
#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3603
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Instrument :
MSVOA_N
ClientSampleId :
PB127249ZHE#16

Tgt Ion:146 Resp: 122
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.4#
148 25.4 32.3 96.9#

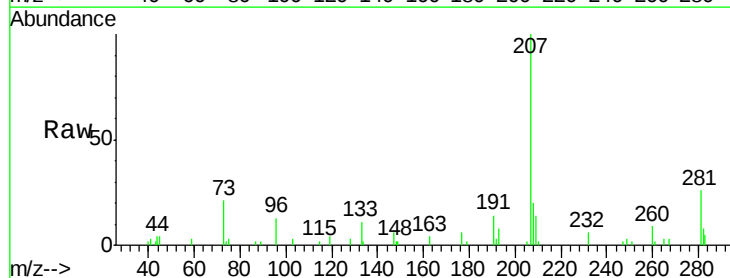


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN060347.D
Acq: 4 Mar 2020 14:41

Tgt Ion:128 Resp: 392
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.6 13.0#



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

