

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060528.D
 Acq On : 16 Mar 2020 17:07
 Operator : JC/MD
 Sample : PB127541ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#01

Quant Time: Mar 17 08:45:38 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	211373	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	352558	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	330153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150155	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	136331	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
35) Dibromofluoromethane	7.56	113	102016	62.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.68%	
50) Toluene-d8	10.08	98	435414	52.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.14%	
62) 4-Bromofluorobenzene	12.40	95	162785	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	

Target Compounds

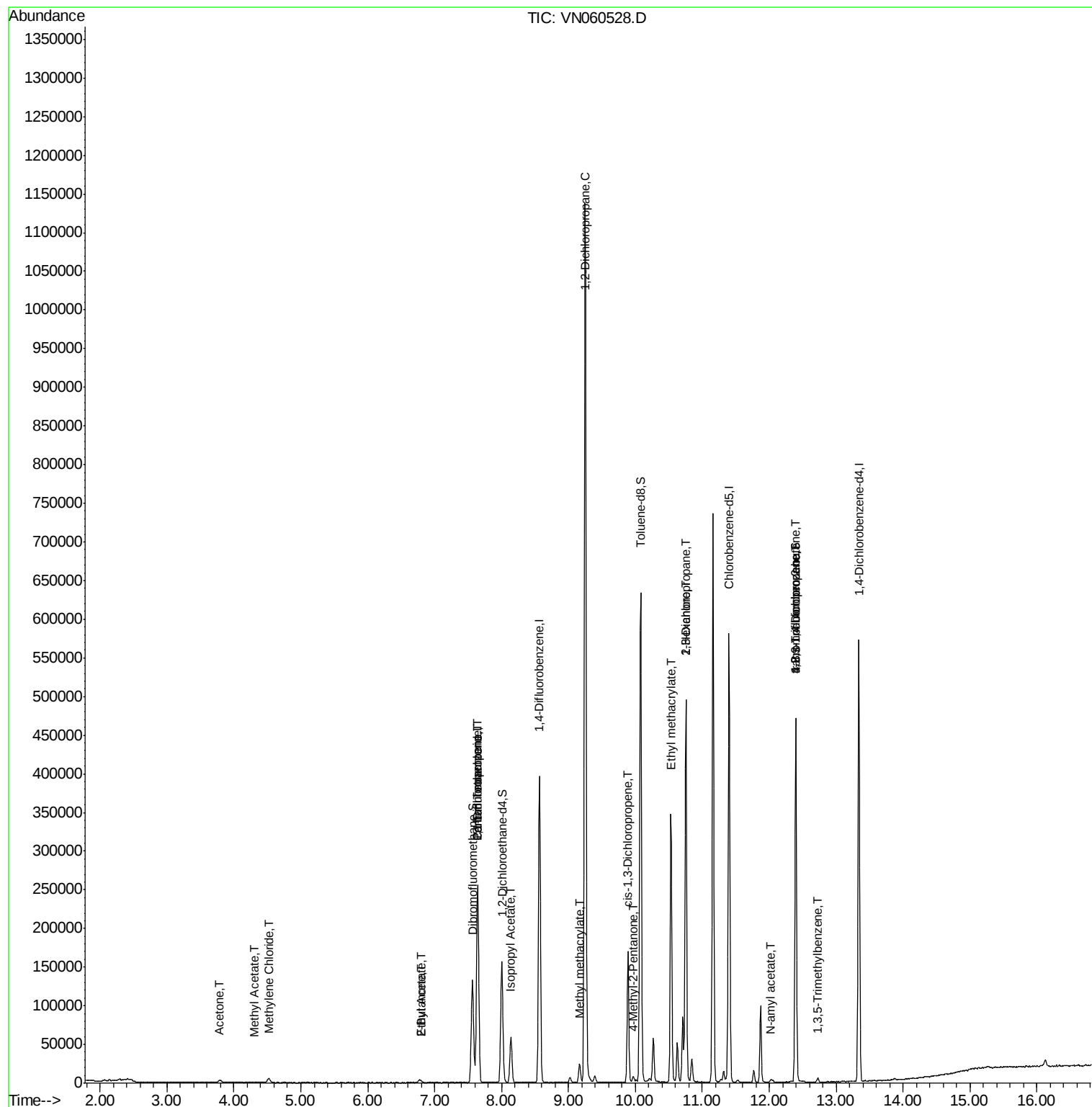
					Qvalue	
16) Acetone	3.79	43	7207	8.229	ug/l	96
18) Methyl Acetate	4.30	43	2026	0.693	ug/l #	65
20) Methylene Chloride	4.52	84	4638	1.928	ug/l	92
25) 2-Butanone	6.81	43	1290	0.912	ug/l #	49
31) Cyclohexane	7.64	56	4512	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16422	4.887	ug/l #	50
37) Ethyl Acetate	6.81	43	1290	0.405	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19531	5.970	ug/l #	16
43) Isopropyl Acetate	8.14	43	69859	12.542	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1454	0.569	ug/l #	44
48) Methyl methacrylate	9.16	41	3668	1.444	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6255	1.981	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	29885	6.975	ug/l #	58
56) Ethyl methacrylate	10.53	69	743	0.209	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4702	1.167	ug/l #	42
59) 2-Hexanone	10.75	43	72955	31.464	ug/l #	52
74) N-amyl acetate	12.02	43	4254	0.875	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	82711	25.106	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3322	0.355	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	82711	69.306	ug/l #	8
95) Naphthalene	15.13	128	231	Below Cal	#	69

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

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QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

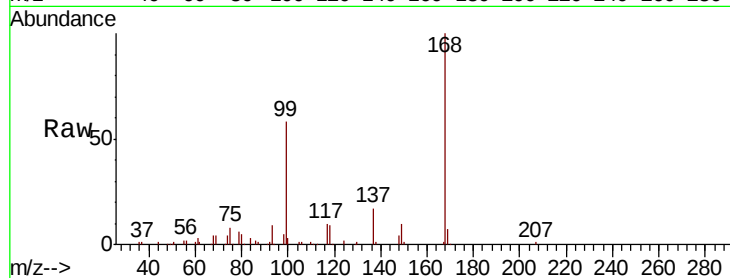
PB127541ZHE#01

Tot Ion:168 Resp: 211373

Ion Ratio Lower Upper

168 100

99 57.8 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

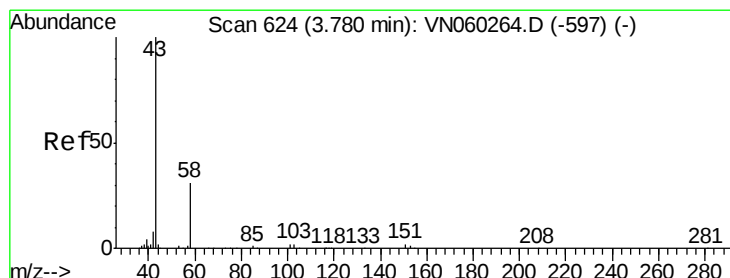
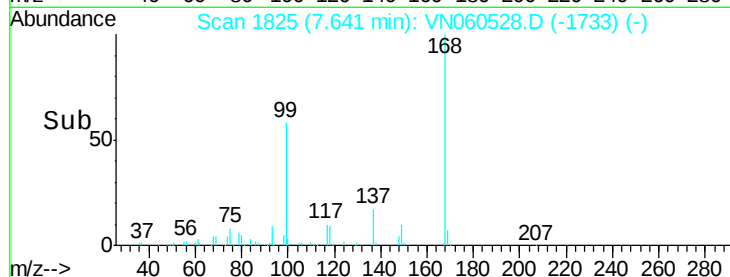
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 8.229 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060528.D

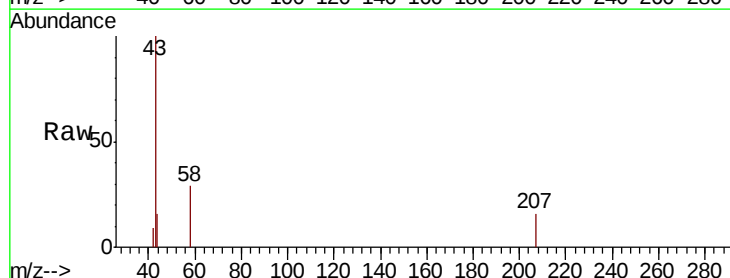
Acq: 16 Mar 2020 17:07

Tgt Ion: 43 Resp: 7207

Ion Ratio Lower Upper

43 100

58 28.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

2500

2000

1500

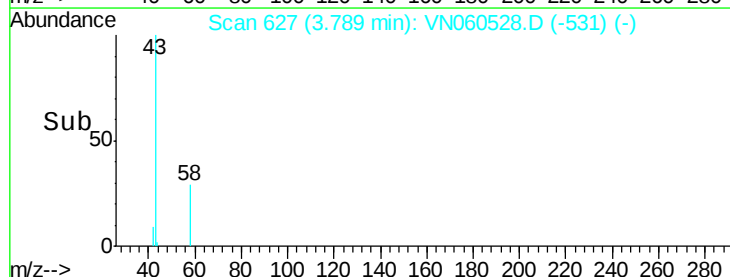
1000

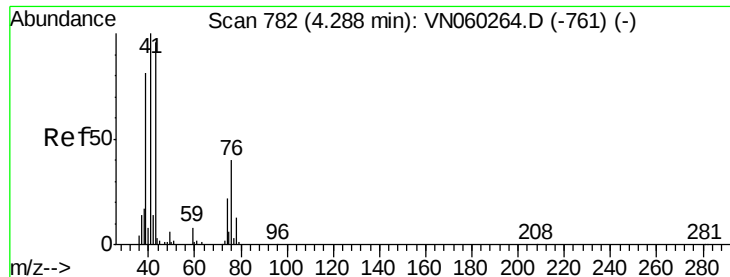
500

0

3.70 3.80 3.90

Time-->

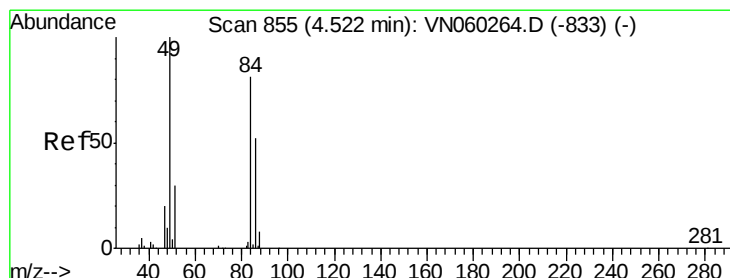
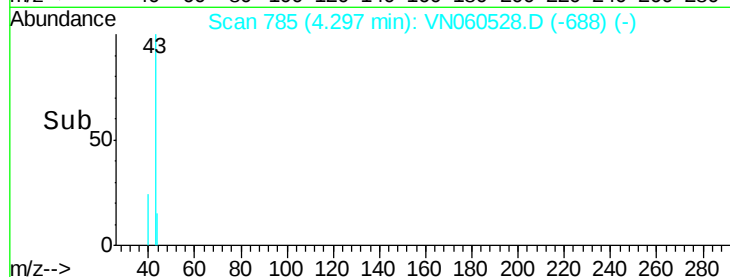
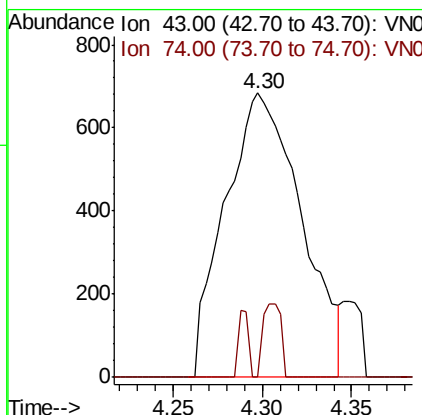
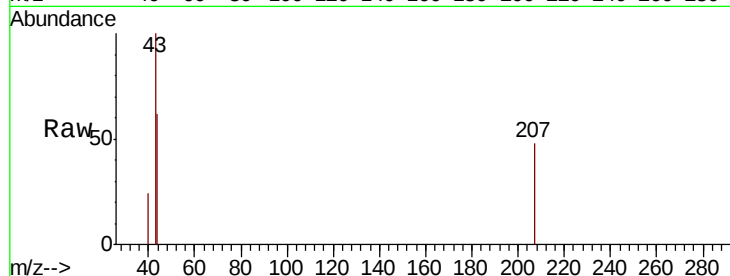




#18
Methvl Acetate
Concen: 0.693 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060528.D
Acq: 16 Mar 2020 17:07

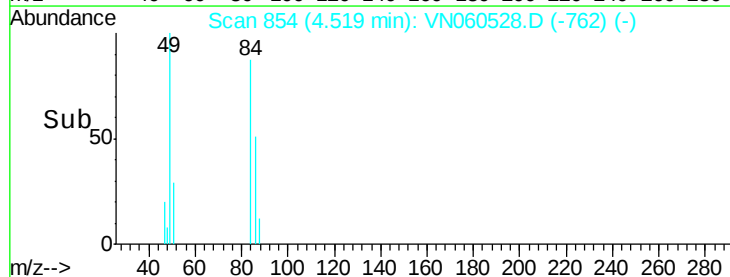
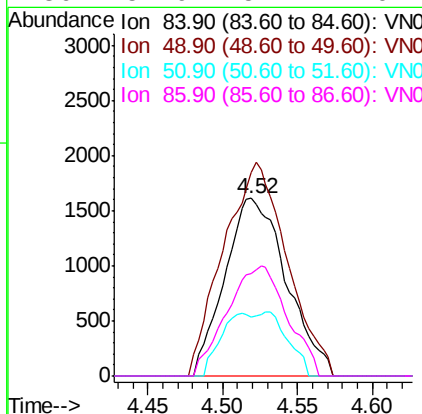
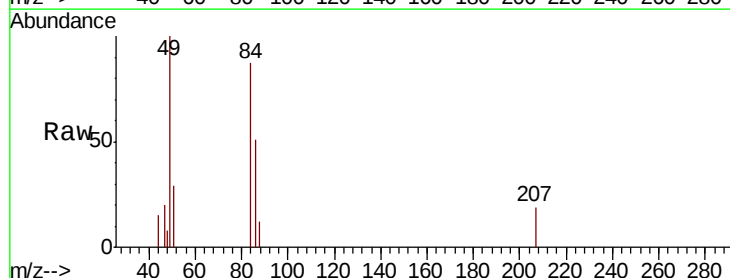
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#01

Tot Ion: 43 Resp: 2026
Ion Ratio Lower Upper
43 100
74 6.2 18.8 28.2#



#20
Methylene Chloride
Concen: 1.928 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060528.D
Acq: 16 Mar 2020 17:07

Tgt Ion: 84 Resp: 4638
Ion Ratio Lower Upper
84 100
49 114.5 99.3 148.9
51 33.0 30.1 45.1
86 57.9 51.1 76.7

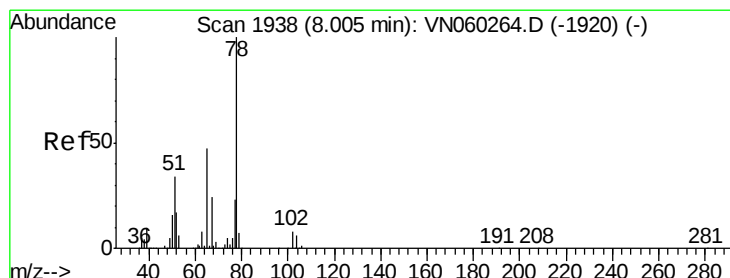
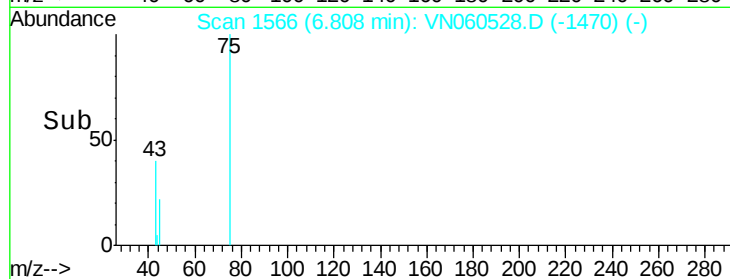
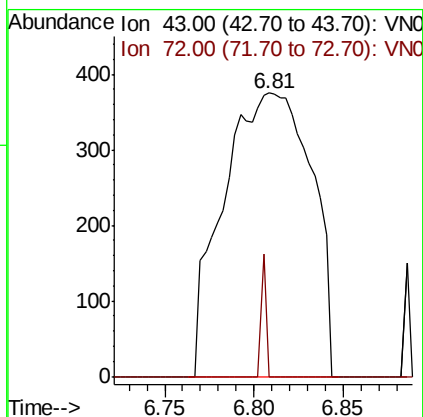
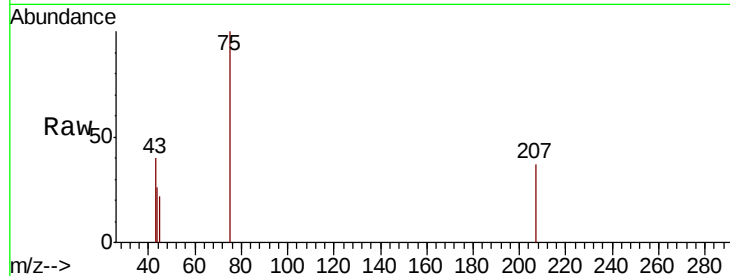




#25
2-Butanone
Concen: 0.912 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060528.D
Acq: 16 Mar 2020 17:07

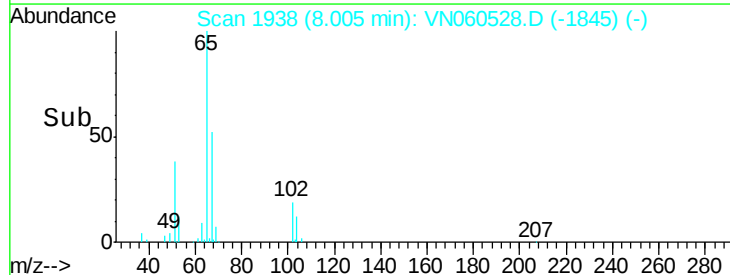
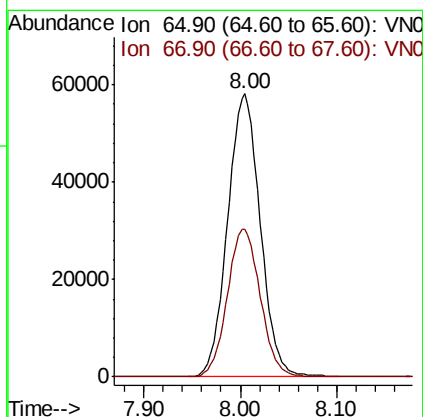
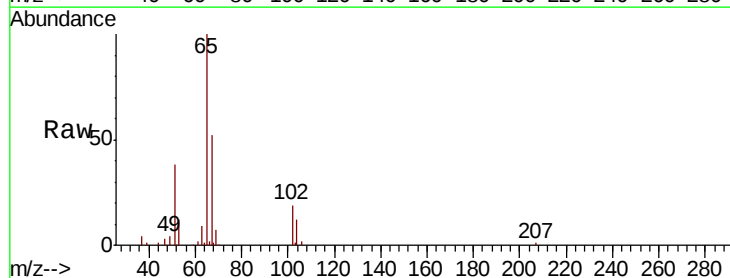
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#01

Tot Ion: 43 Resp: 1290
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.271 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060528.D
Acq: 16 Mar 2020 17:07

Tgt Ion: 65 Resp: 136331
Ion Ratio Lower Upper
65 100
67 52.8 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: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

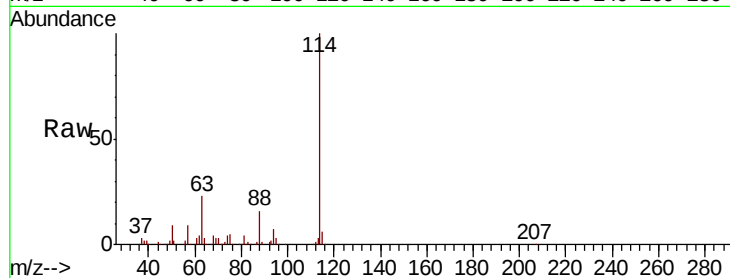
Tot Ion:114 Resp: 352558

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.2

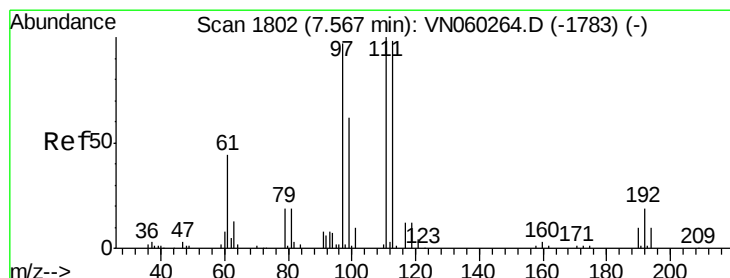
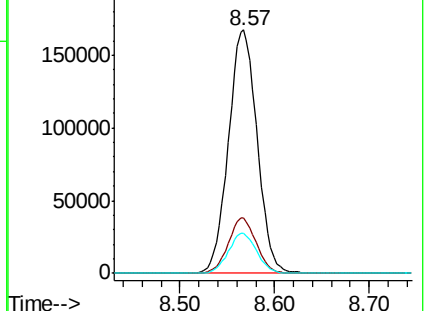
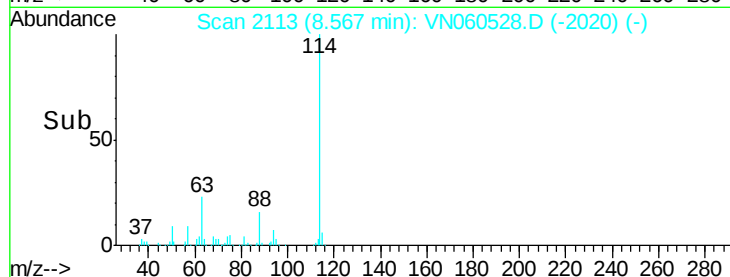
88 16.2 0.0 31.6



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: 62.339 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

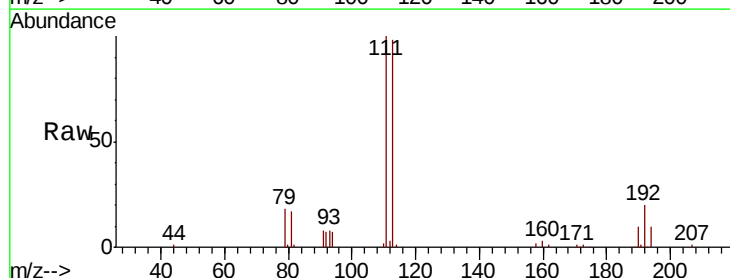
Tgt Ion:113 Resp: 102016

Ion Ratio Lower Upper

113 100

111 105.4 82.4 123.6

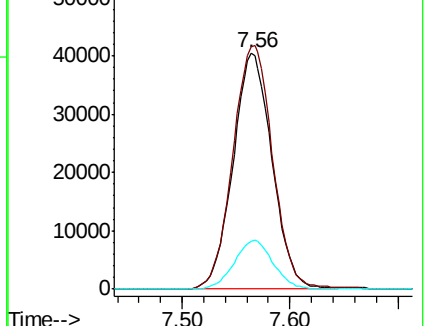
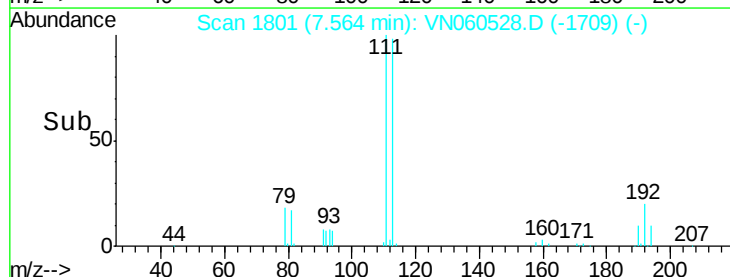
192 20.5 16.2 24.2



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: 4.887 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

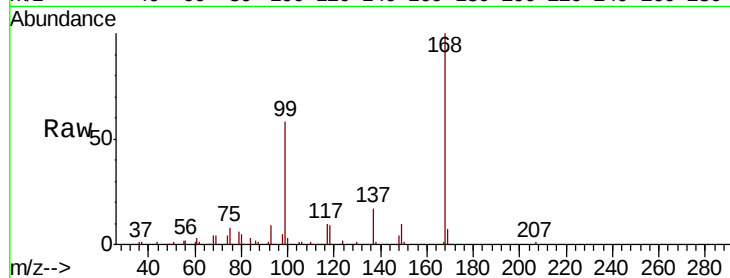
Tot Ion: 75 Resp: 16422

Ion Ratio Lower Upper

75 100

110 8.6 17.3 52.0#

77 0.0 24.2 36.2#

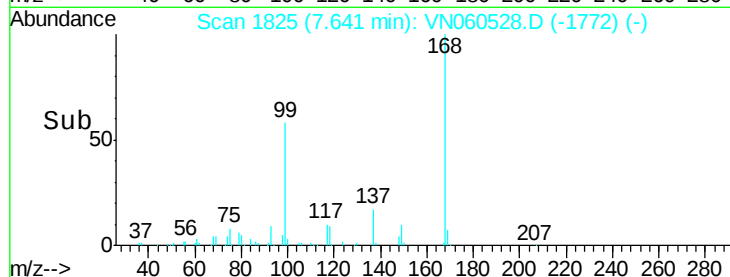


Abundance Ion 74.90 (74.60 to 75.60): VN060528.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060528.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060528.D (-1772) (-)

Time-->

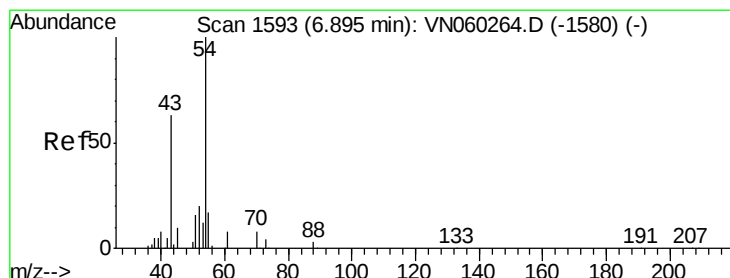


Abundance Ion 74.90 (74.60 to 75.60): VN060528.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060528.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060528.D (-1772) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.405 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

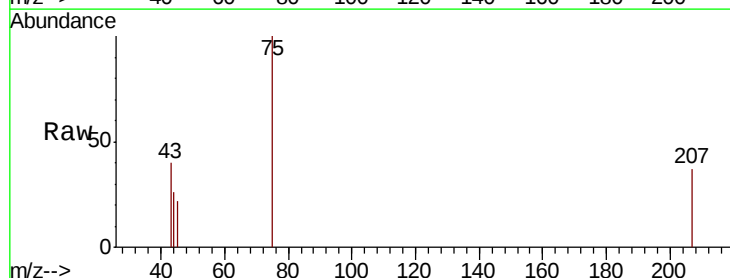
Tgt Ion: 43 Resp: 1290

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

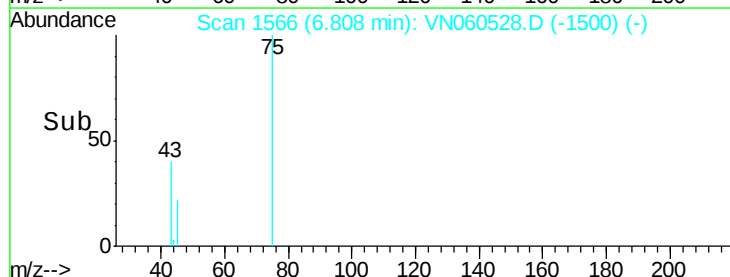


Abundance Ion 43.00 (42.70 to 43.70): VN060528.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060528.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060528.D (-1500) (-)

Time-->

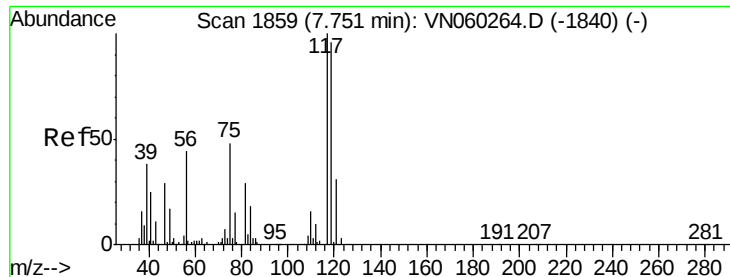


Abundance Ion 43.00 (42.70 to 43.70): VN060528.D (-1500) (-)

Ion 60.90 (60.60 to 61.60): VN060528.D (-1500) (-)

Ion 70.00 (69.70 to 70.70): VN060528.D (-1500) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.970 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

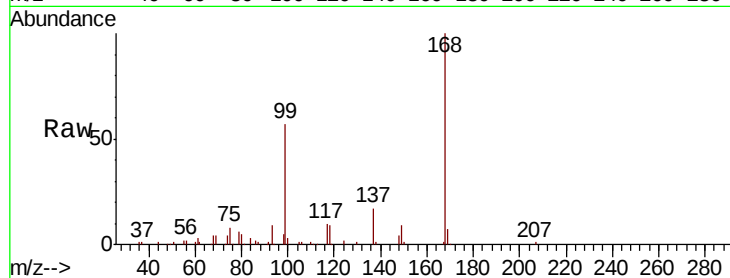
Tot Ion:117 Resp: 19531

Ion Ratio Lower Upper

117 100

119 4.7 76.7 115.1#

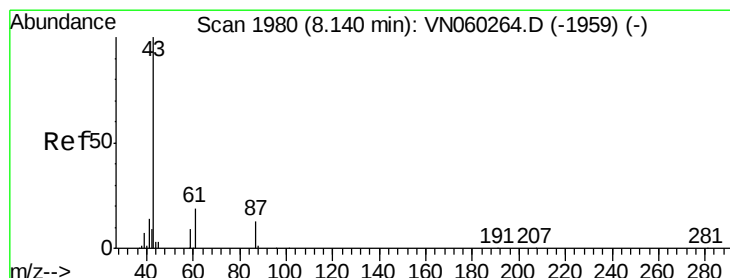
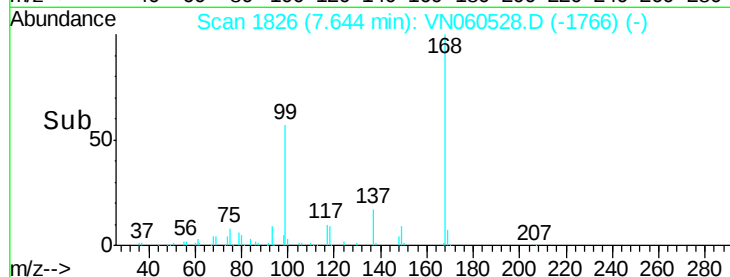
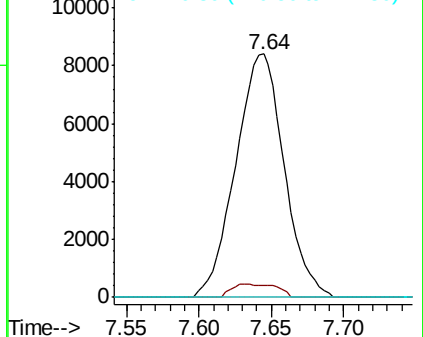
121 0.0 24.5 36.7#



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: 12.542 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

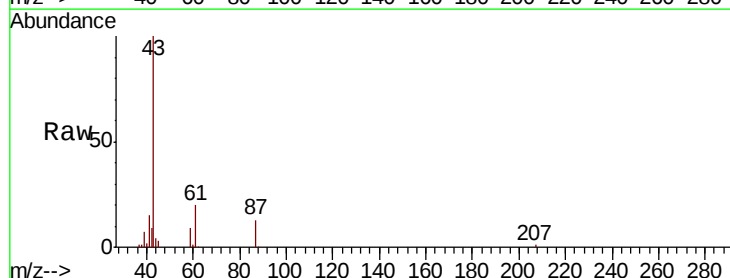
Tgt Ion: 43 Resp: 69859

Ion Ratio Lower Upper

43 100

61 19.8 20.9 31.3#

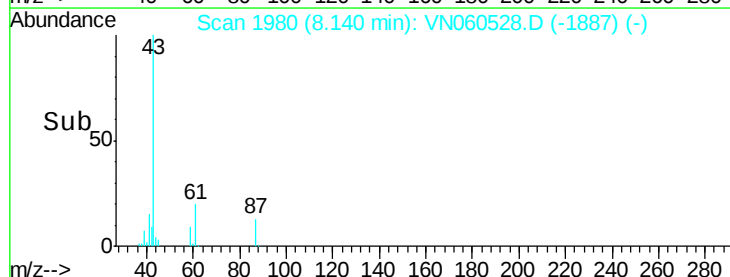
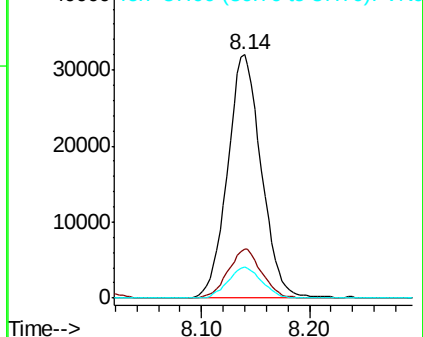
87 12.5 10.6 16.0

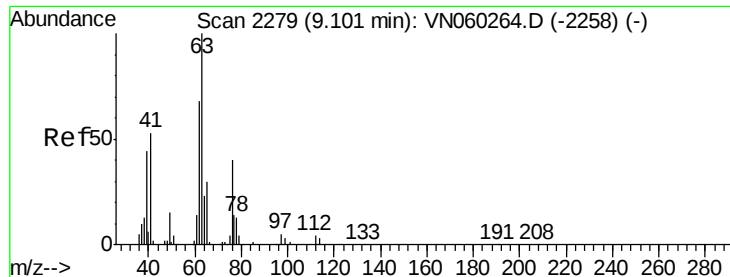


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.569 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

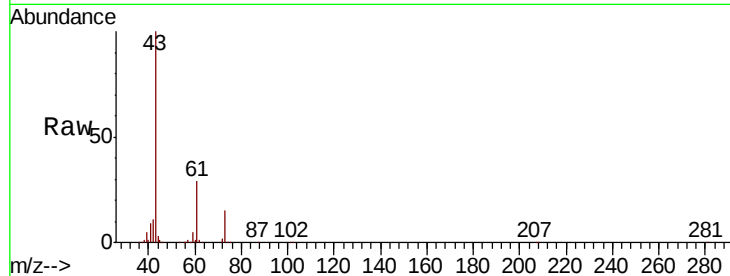
PB127541ZHE#01

Tot Ion: 63 Resp: 1454

Ion Ratio Lower Upper

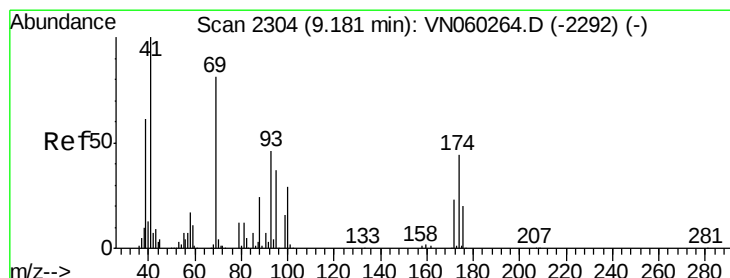
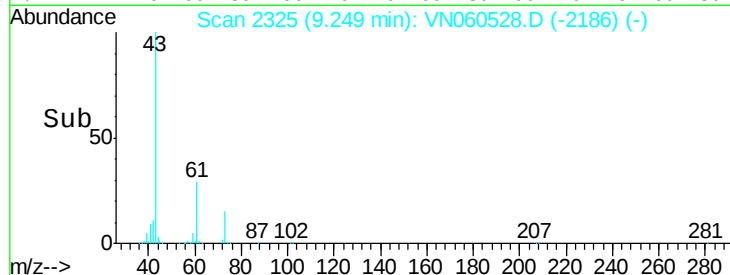
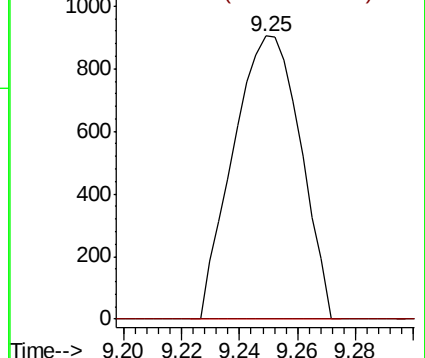
63 100

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



#48

Methyl methacrylate

Concen: 1.444 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

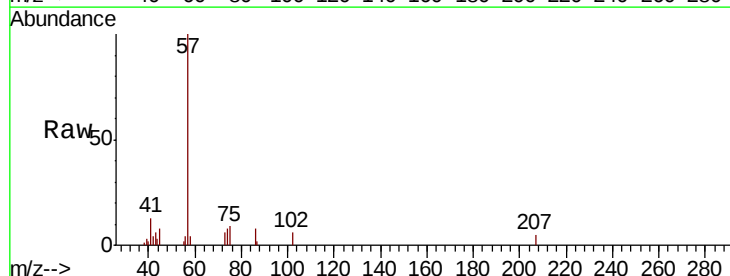
Tgt Ion: 41 Resp: 3668

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

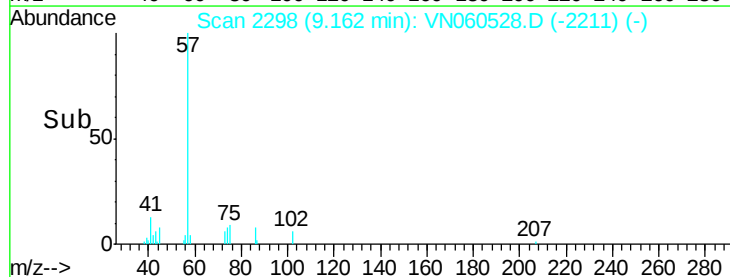
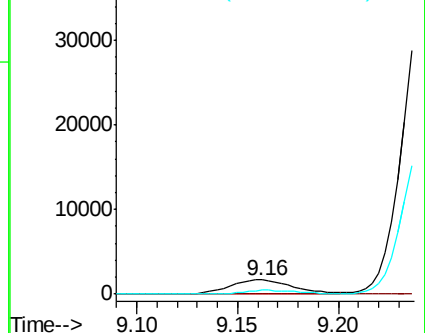
39 0.0 50.1 75.1#

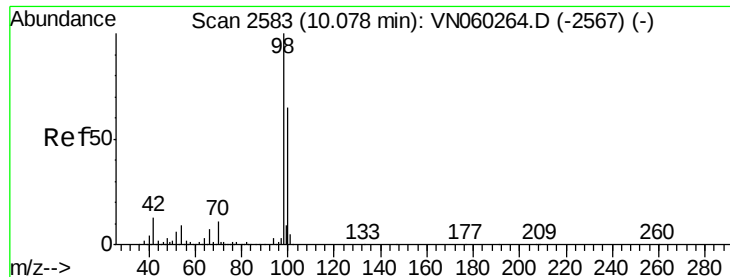


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.571 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

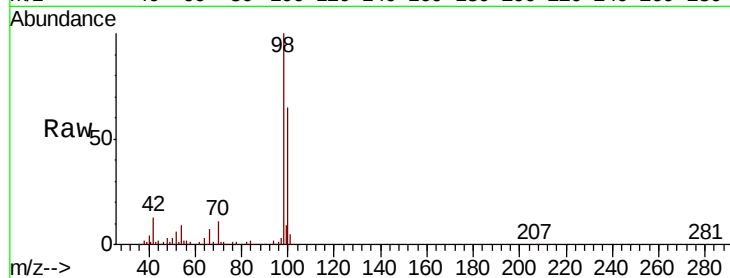
PB127541ZHE#01

Tot Ion: 98 Resp: 435414

Ion Ratio Lower Upper

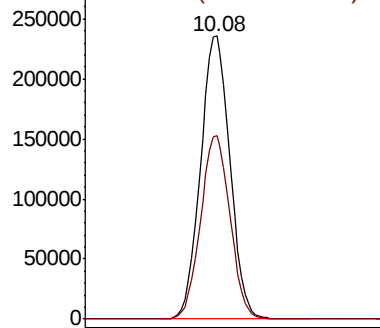
98 100

100 64.8 52.2 78.2

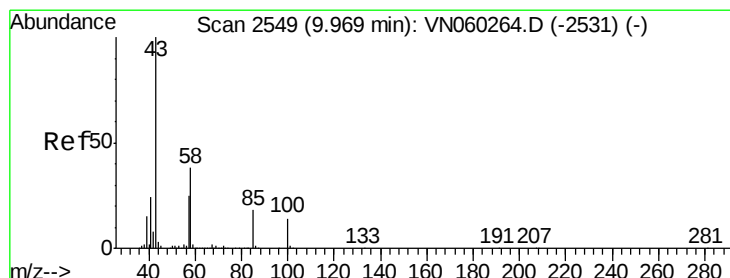
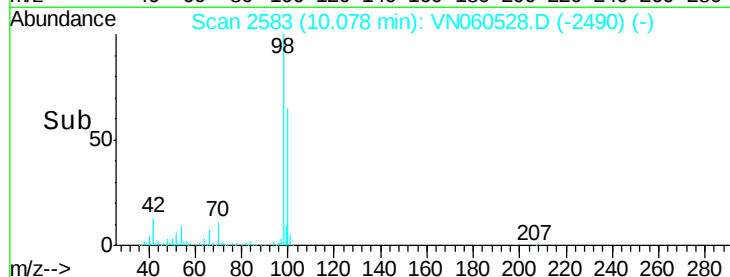


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.981 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060528.D

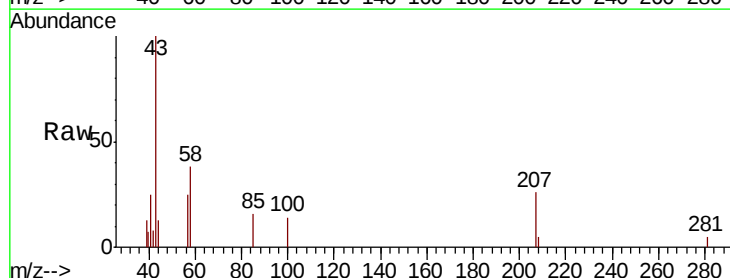
Acq: 16 Mar 2020 17:07

Tgt Ion: 43 Resp: 6255

Ion Ratio Lower Upper

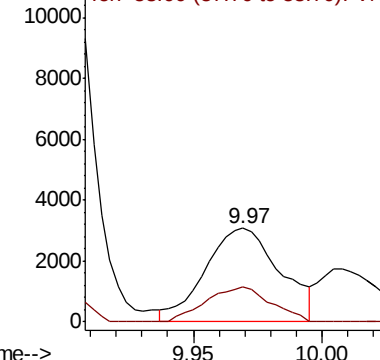
43 100

58 32.4 30.9 46.3

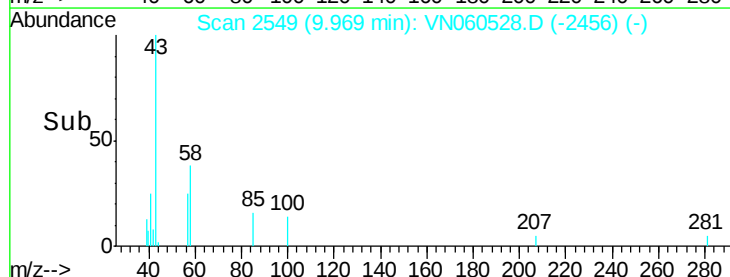


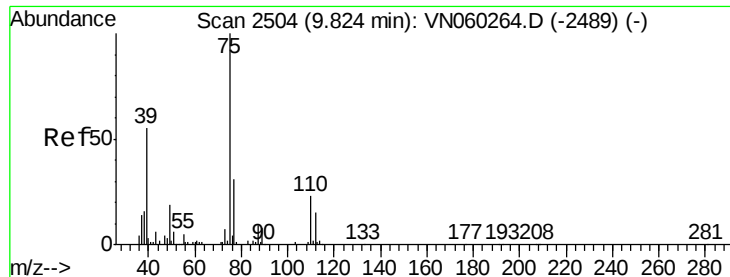
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.975 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

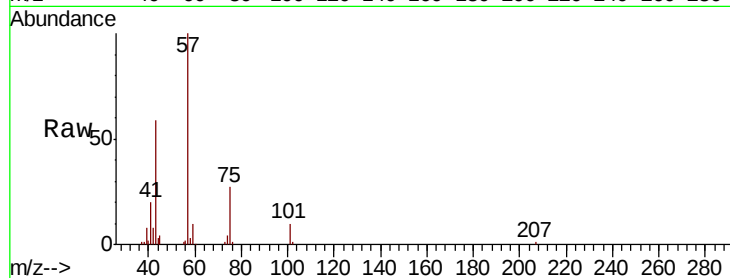
Tot Ion: 75 Resp: 29885

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

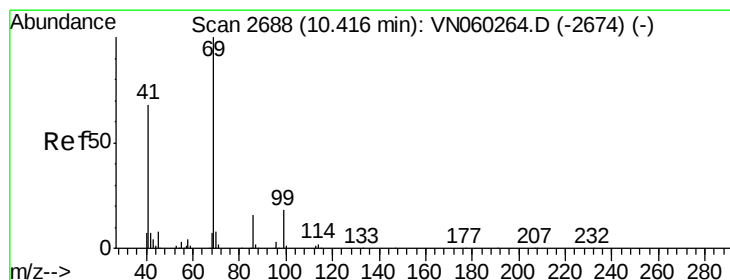
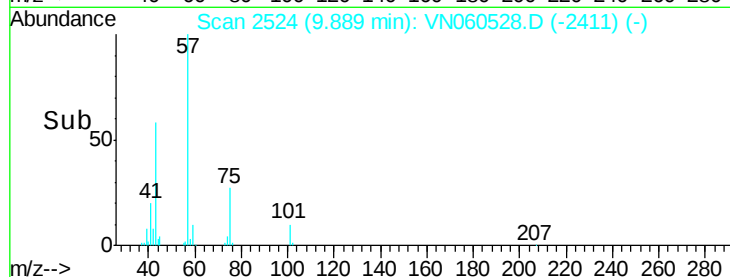
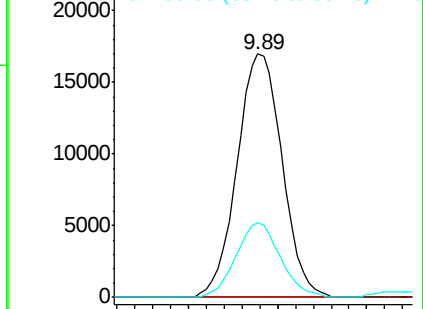
39 30.7 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060528.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060528.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060528.D (-2411) (-)



#56

Ethyl methacrylate

Concen: 0.209 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. 0.12 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

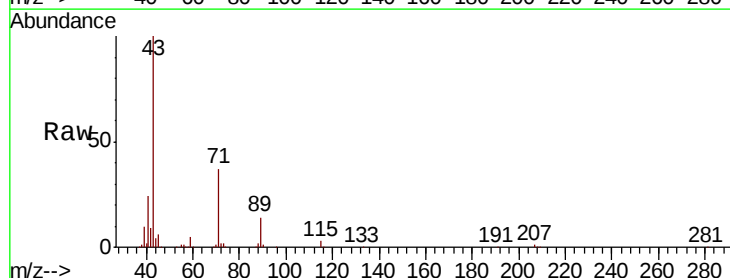
Tgt Ion: 69 Resp: 743

Ion Ratio Lower Upper

69 100

41 8334.6 54.1 81.1#

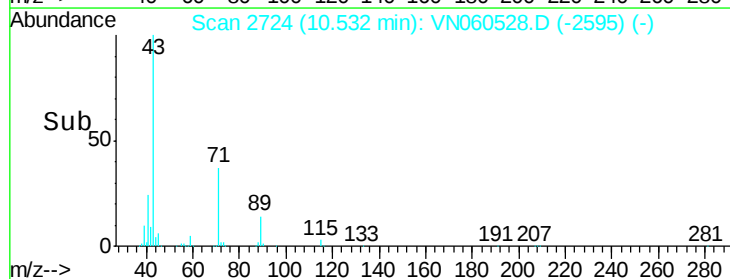
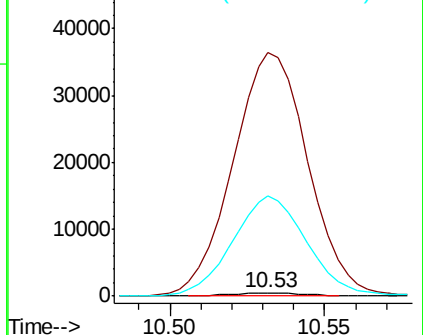
39 3357.7 32.5 48.7#

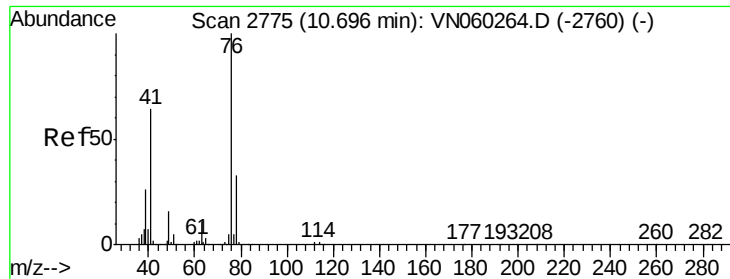


Abundance Ion 69.00 (68.70 to 69.70): VN060528.D (-2595) (-)

Ion 41.00 (40.70 to 41.70): VN060528.D (-2595) (-)

Ion 39.00 (38.70 to 39.70): VN060528.D (-2595) (-)

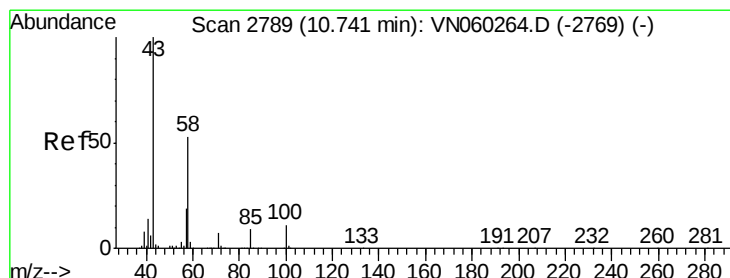
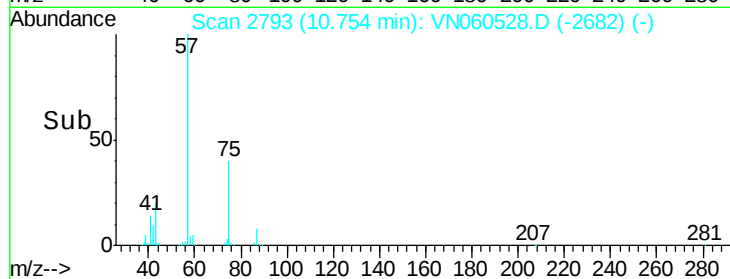
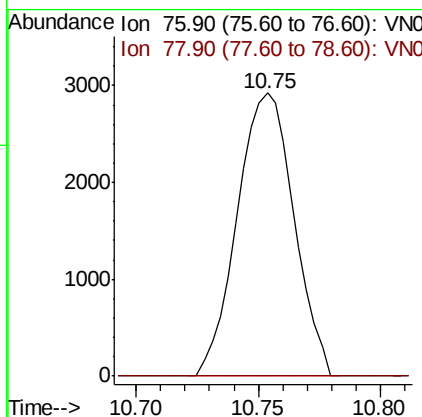
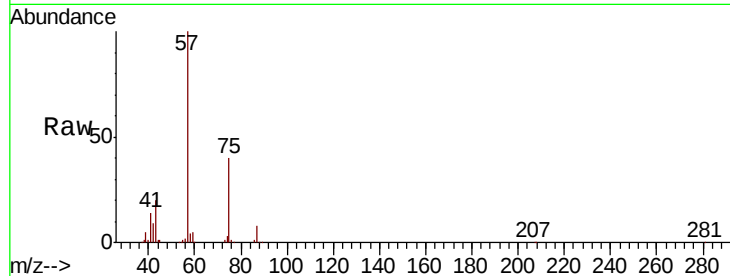




#57
 1,3-Dichloropropane
 Concen: 1.167 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060528.D
 Acq: 16 Mar 2020 17:07

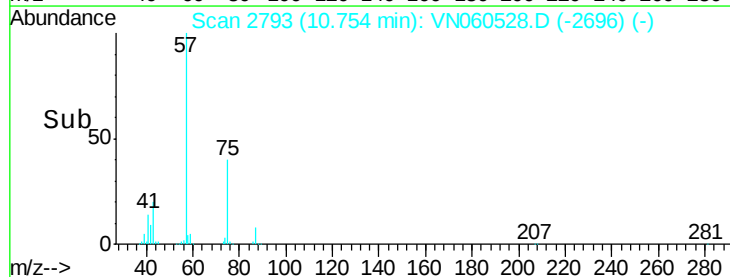
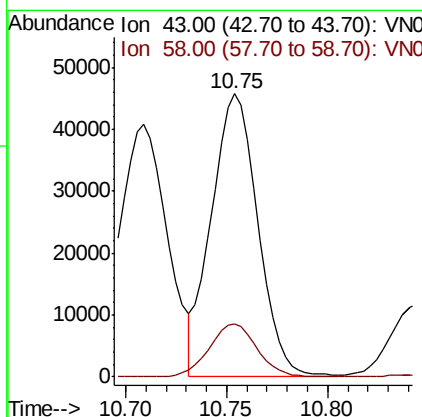
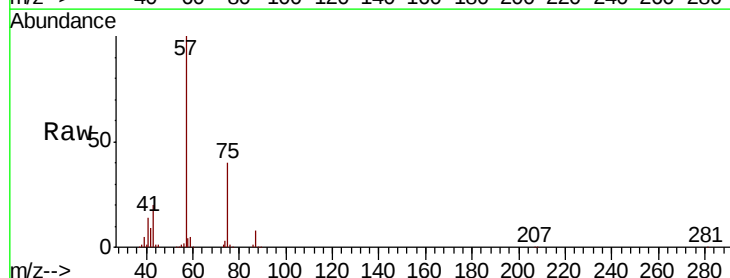
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#01

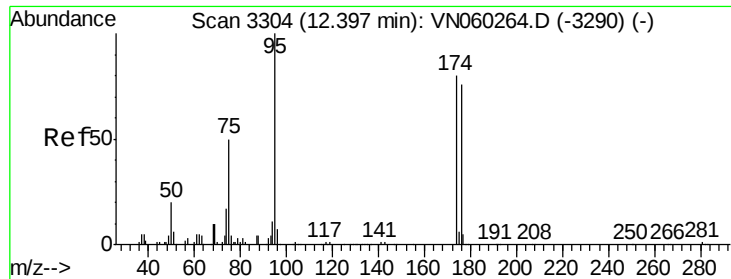
Tot Ion: 76 Resp: 4702
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 31.464 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060528.D
 Acq: 16 Mar 2020 17:07

Tgt Ion: 43 Resp: 72955
 Ion Ratio Lower Upper
 43 100
 58 19.1 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 51.848 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

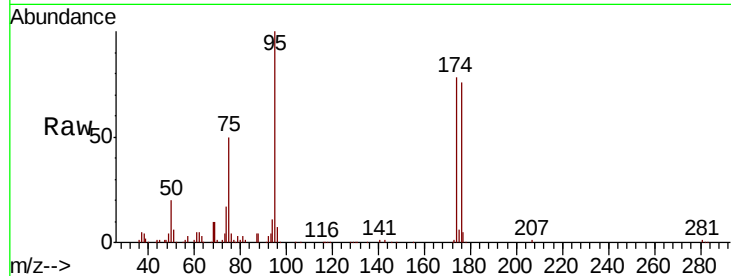
Tot Ion: 95 Resp: 162785

Ion Ratio Lower Upper

95 100

174 77.8 0.0 159.2

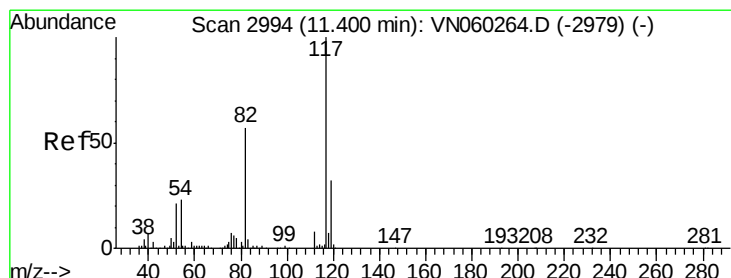
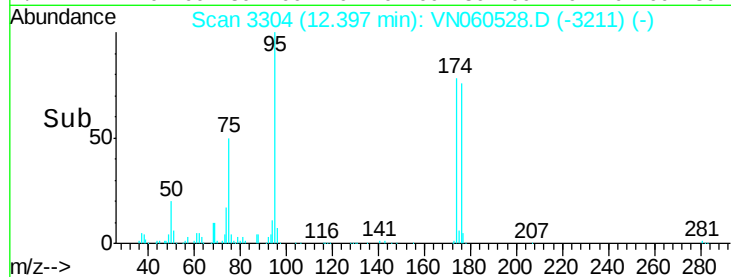
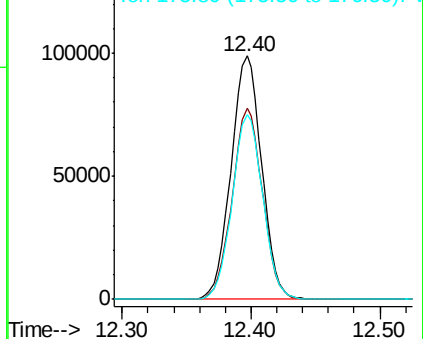
176 75.8 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060528.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060528.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060528.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

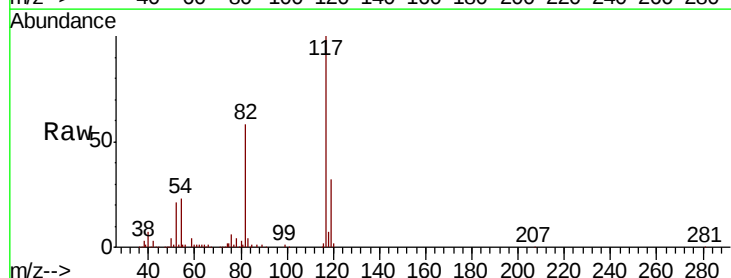
Tgt Ion: 117 Resp: 330153

Ion Ratio Lower Upper

117 100

82 57.7 45.8 68.6

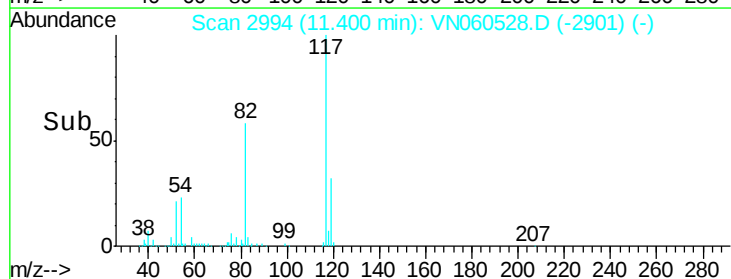
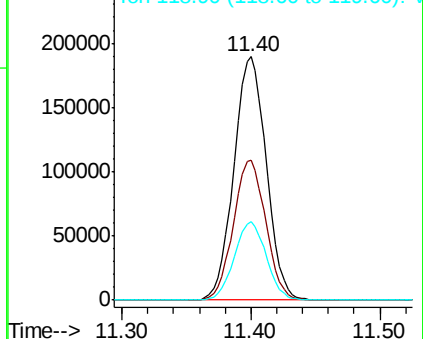
119 32.1 25.8 38.8

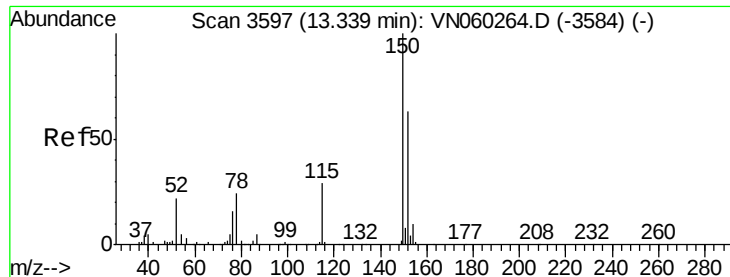


Abundance Ion 116.90 (116.60 to 117.60): VN060528.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060528.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060528.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

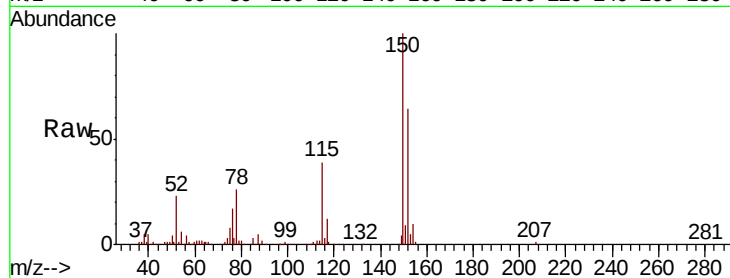
Tot Ion:152 Resp: 150155

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

150 157.1 0.0 349.6

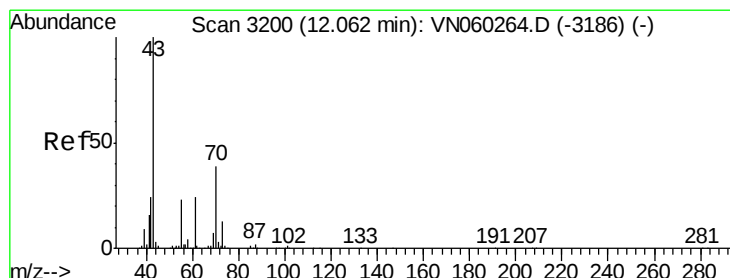
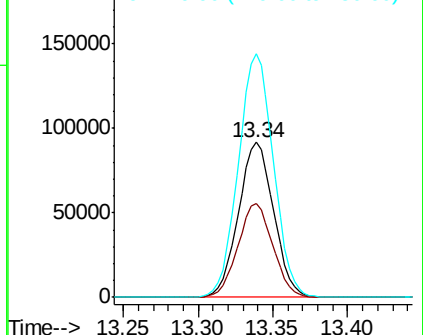
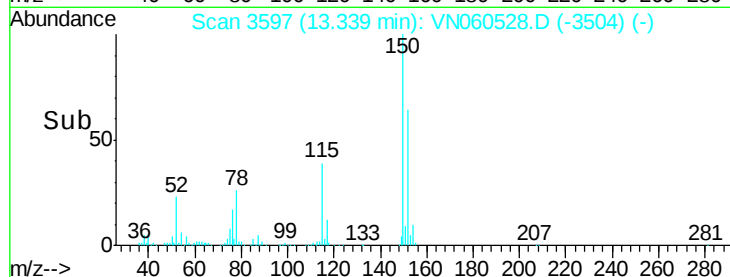


Abundance

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: 0.875 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Tgt Ion: 43 Resp: 4254

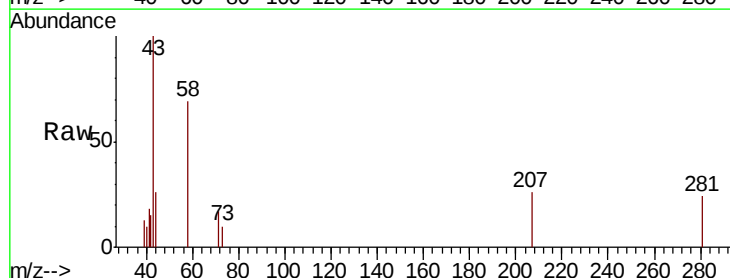
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



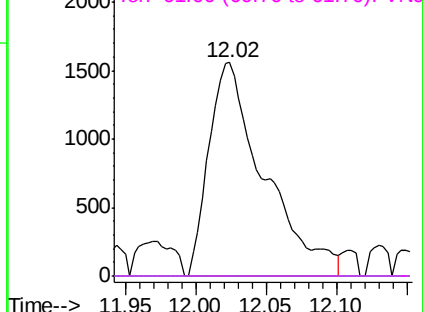
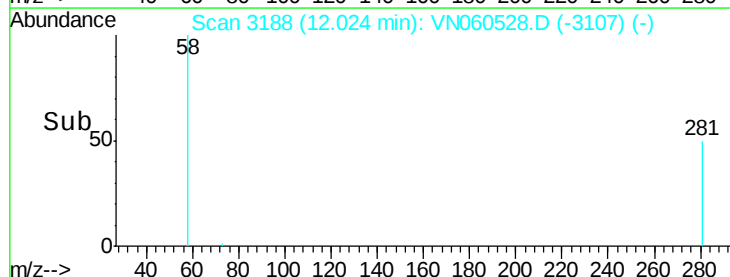
Abundance

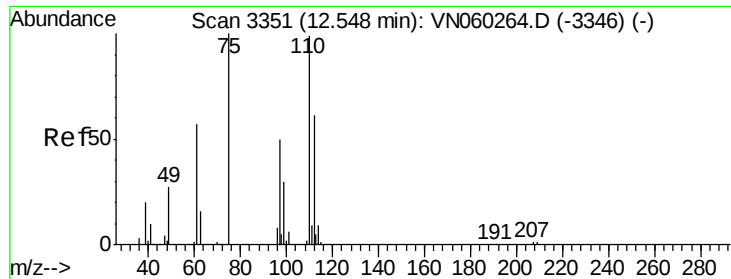
Ion 43.00 (42.70 to 43.70): VN0

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: 25.106 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

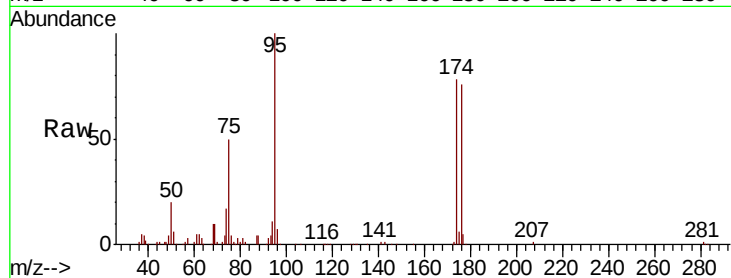
PB127541ZHE#01

Tot Ion: 75 Resp: 82711

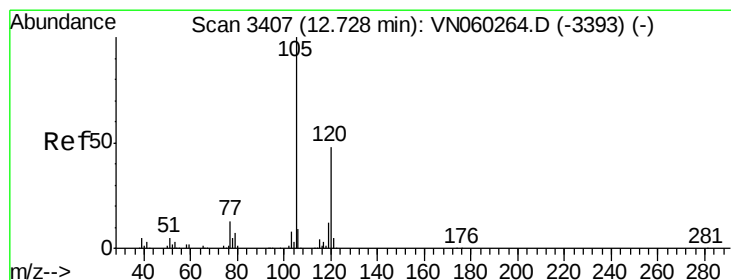
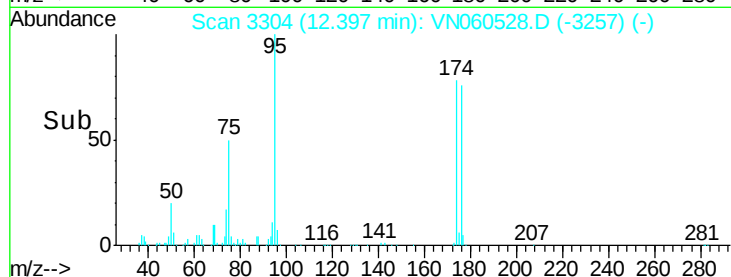
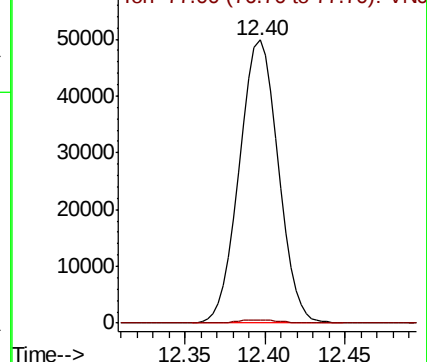
Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060528.D (-3304) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.355 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060528.D

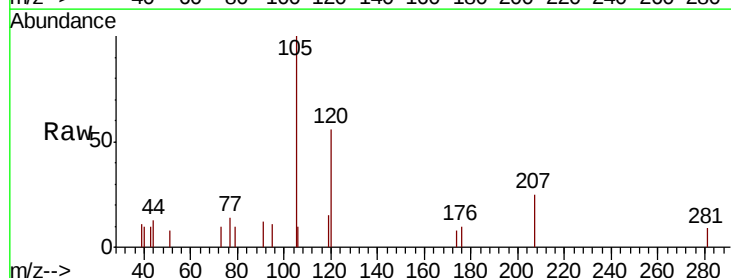
Acq: 16 Mar 2020 17:07

Tgt Ion: 105 Resp: 3322

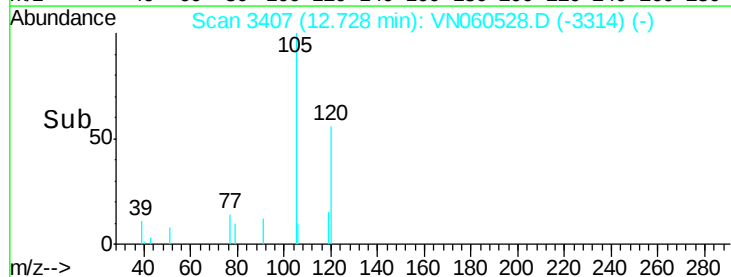
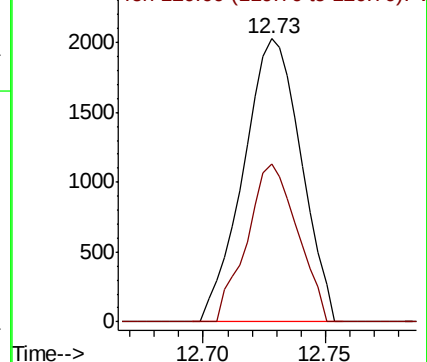
Ion Ratio Lower Upper

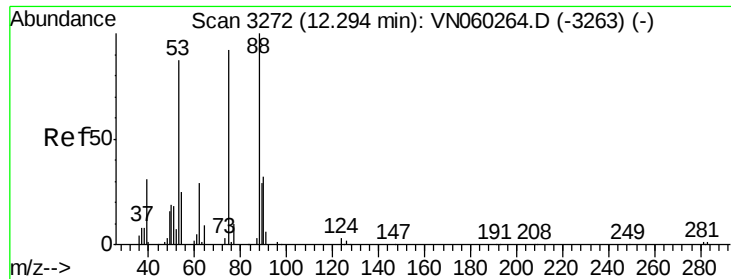
105 100

120 48.6 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060528.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 69.306 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#01

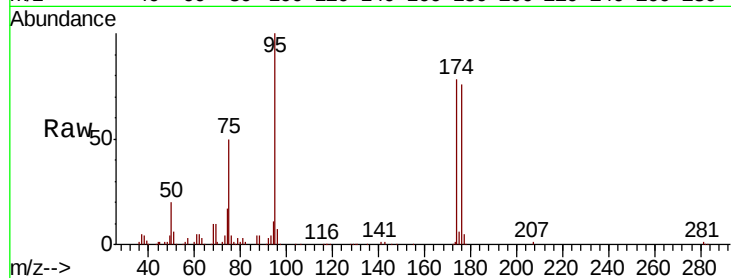
Tot Ion: 75 Resp: 82711

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

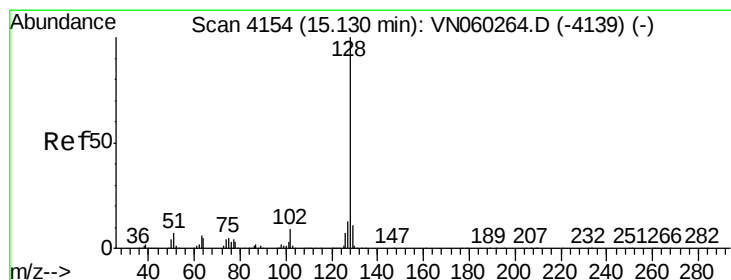
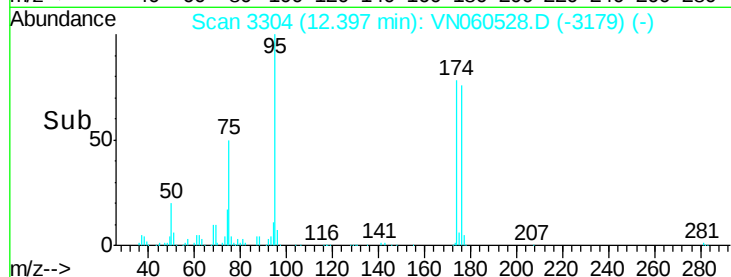
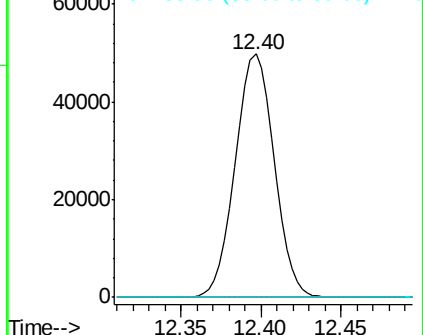
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060528.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060528.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060528.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060528.D

Acq: 16 Mar 2020 17:07

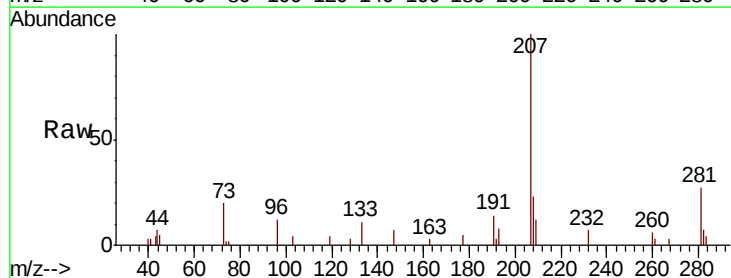
Tgt Ion: 128 Resp: 231

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): VN060528.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060528.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060528.D (-4060) (-)

