

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN030920\
 Data File : VN060399.D
 Acq On : 9 Mar 2020 13:41
 Operator : JC/MD
 Sample : PB127354ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127354ZHE#04

Quant Time: Mar 09 16:26:05 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	200437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	329032	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	308741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145521	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	131469	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
35) Dibromofluoromethane	7.57	113	94877	62.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	124.24%	
50) Toluene-d8	10.08	98	406556	52.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.20%	
62) 4-Bromofluorobenzene	12.40	95	152072	51.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.80%	

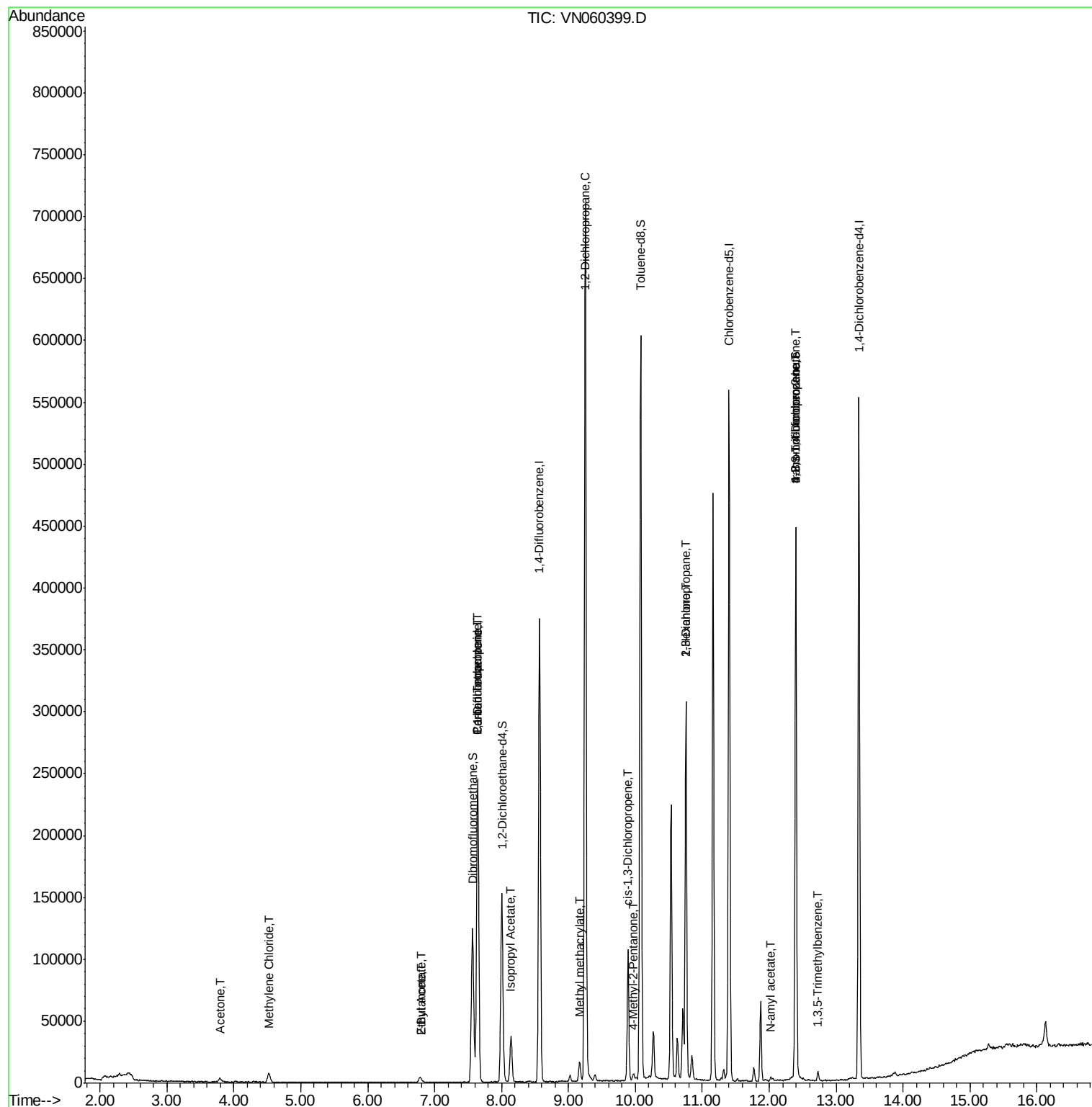
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5595	6.74	ug/l	95
20) Methylene Chloride	4.53	84	5381	2.36	ug/l	93
25) 2-Butanone	6.82	43	1610	1.20	ug/l #	49
31) Cyclohexane	7.64	56	4138	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15032	4.79	ug/l #	49
37) Ethyl Acetate	6.82	43	1610	0.54	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19062	6.24	ug/l #	16
43) Isopropyl Acetate	8.14	43	43350	8.34	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	799	0.33	ug/l #	44
48) Methyl methacrylate	9.16	41	2623	1.11	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4226	1.43	ug/l #	85
54) cis-1,3-Dichloropropene	9.89	75	18530	4.63	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3060	0.81	ug/l #	42
59) 2-Hexanone	10.75	43	46951	21.70	ug/l #	51
74) N-amyl acetate	12.02	43	3118	0.66	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	77940	24.41	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4149	0.46	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	77940	67.39	ug/l #	8
87) 1,3-Dichlorobenzene	13.27	146	29	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	148	Below Cal	#	1
95) Naphthalene	15.14	128	448	Below Cal	#	69

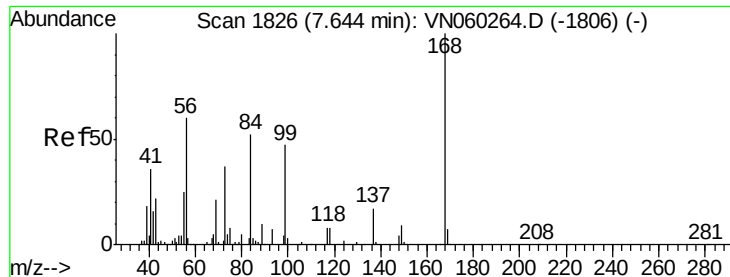
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

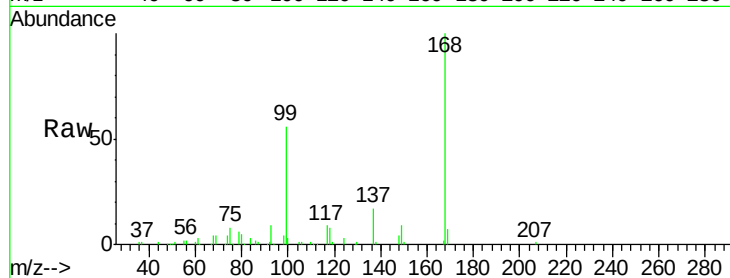
PB127354ZHE#04

Tgt Ion:168 Resp: 200437

Ion Ratio Lower Upper

168 100

99 56.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060399.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060399.D (-1733) (-)

7.64

80000

60000

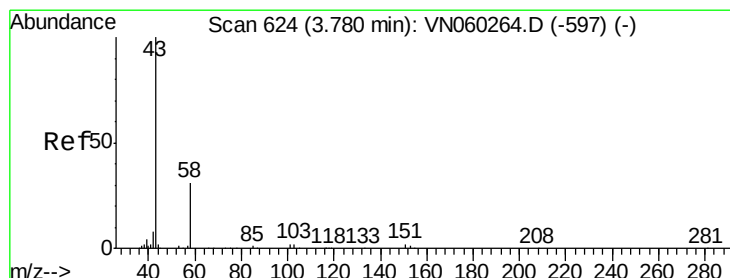
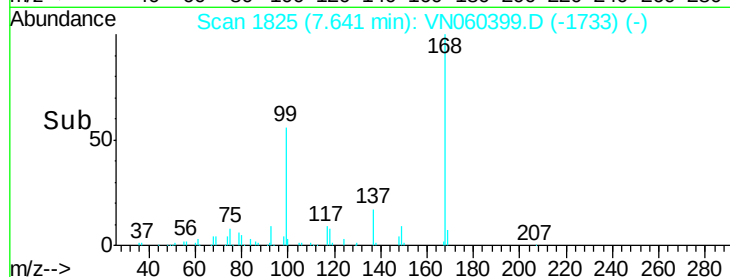
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 6.74 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060399.D

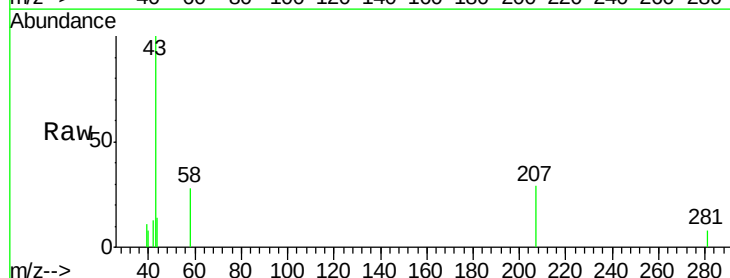
Acq: 9 Mar 2020 13:41

Tgt Ion: 43 Resp: 5595

Ion Ratio Lower Upper

43 100

58 28.2 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060399.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060399.D (-531) (-)

3.79

2000

1500

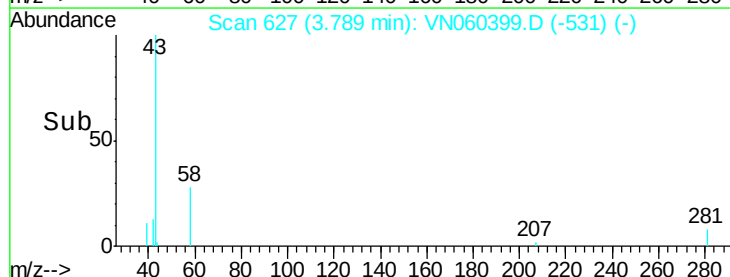
1000

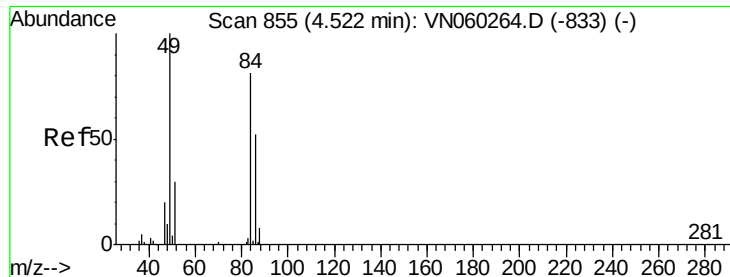
500

0

3.70 3.75 3.80 3.85

Time-->

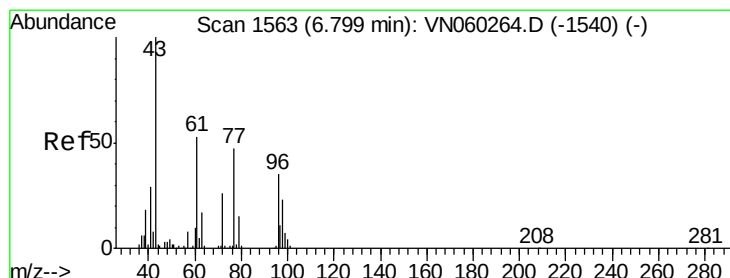
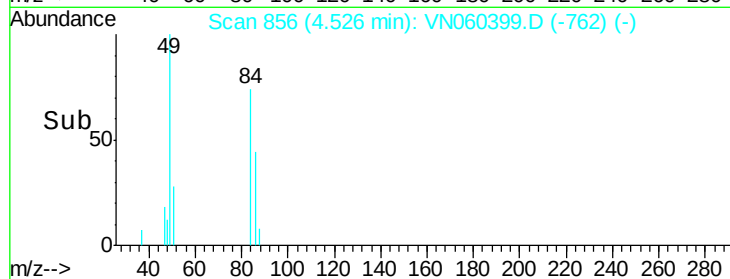
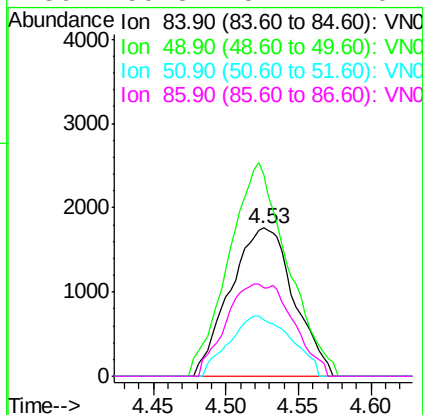
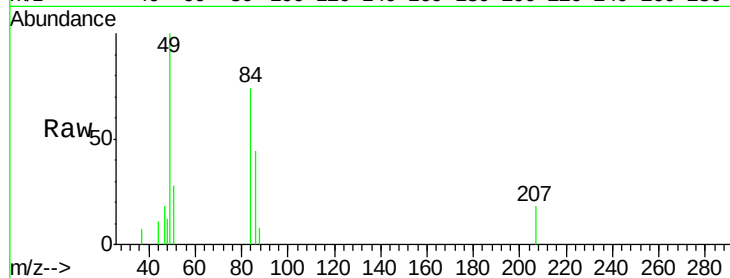




#20
Methylene Chloride
Concen: 2.36 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

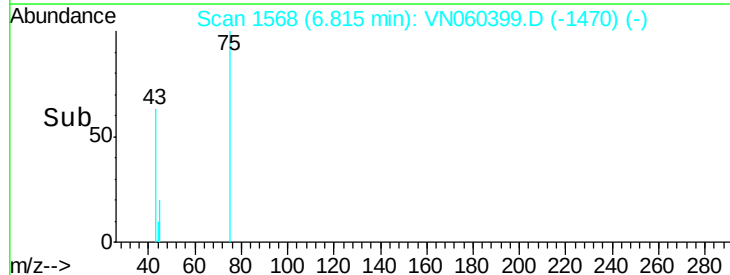
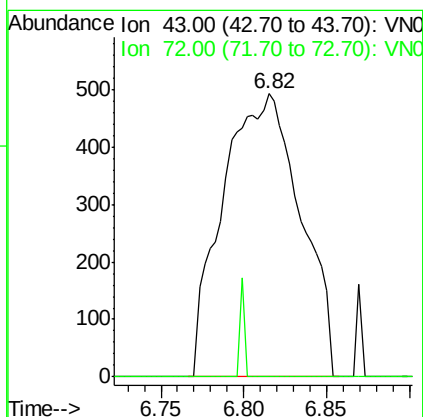
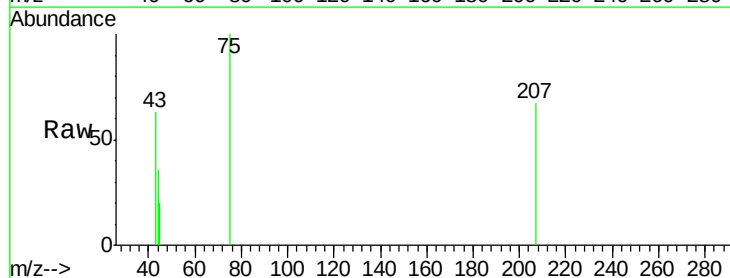
Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#04

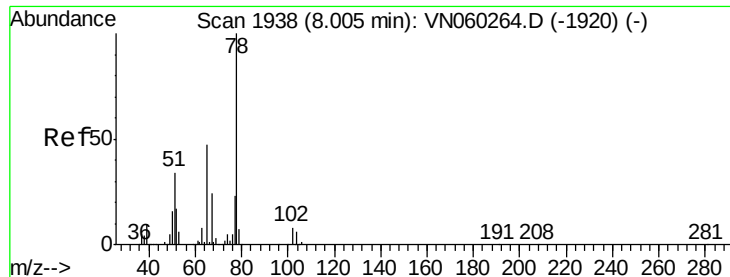
Tgt Ion:	84	Resp:	5381
Ion	Ratio	Lower	Upper
84	100		
49	135.7	99.3	148.9
51	37.5	30.1	45.1
86	59.3	51.1	76.7



#25
2-Butanone
Concen: 1.20 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

Tgt Ion:	43	Resp:	1610
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#

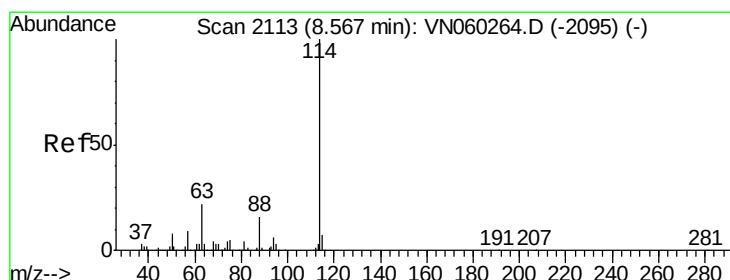
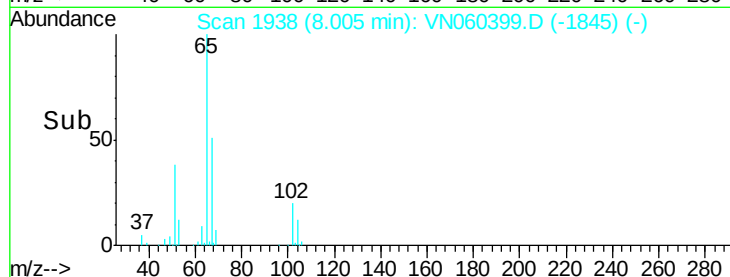
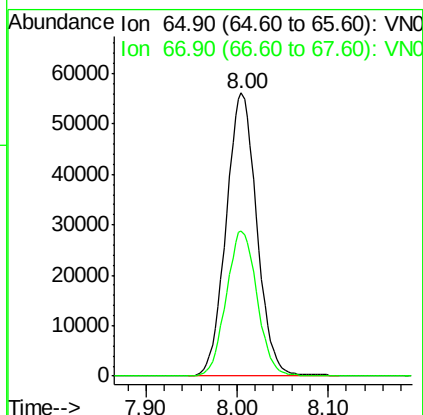
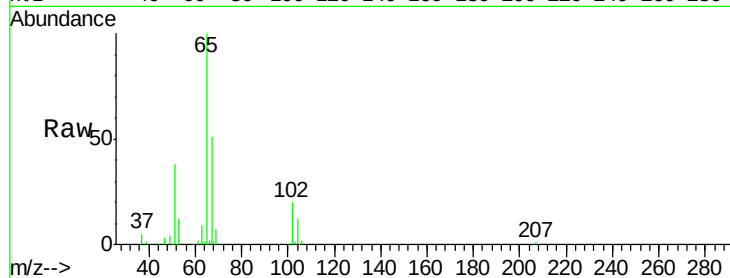




#33
 1,2-Dichloroethane-d4
 Concen: 51.12 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060399.D
 Acq: 9 Mar 2020 13:41

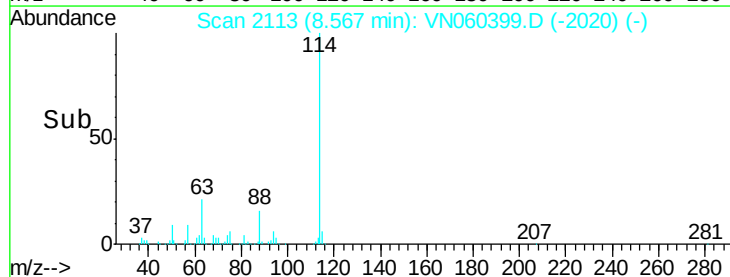
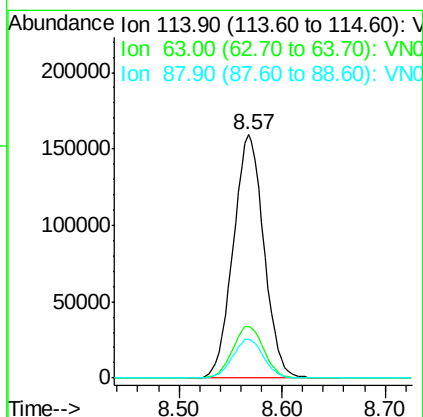
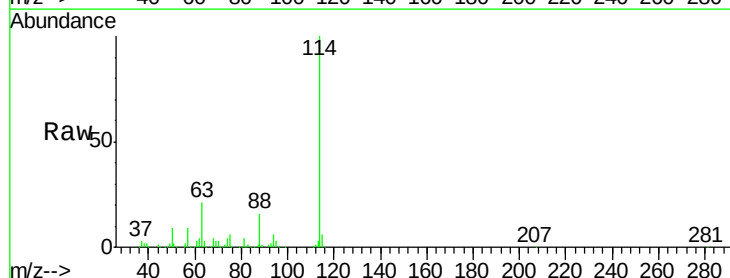
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127354ZHE#04

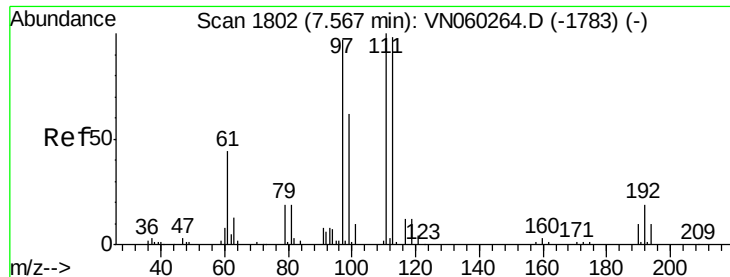
Tgt Ion: 65 Resp: 131469
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060399.D
 Acq: 9 Mar 2020 13:41

Tgt Ion: 114 Resp: 329032
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 62.12 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#04

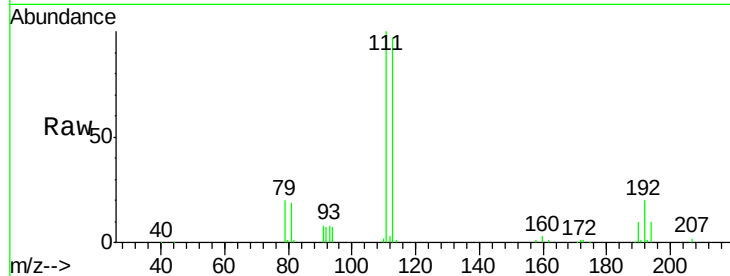
Tgt Ion:113 Resp: 94877

Ion Ratio Lower Upper

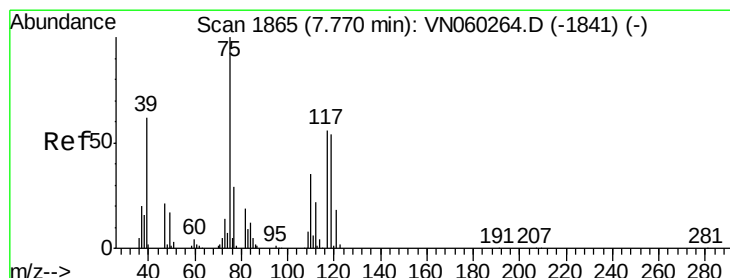
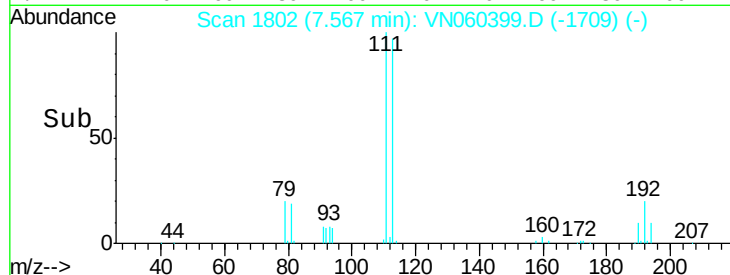
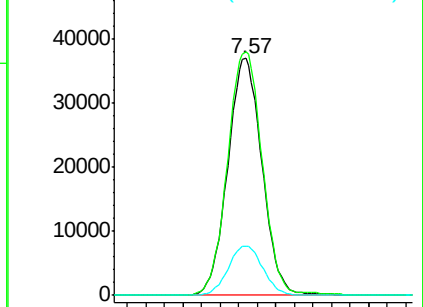
113 100

111 103.6 82.4 123.6

192 20.8 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: 4.79 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

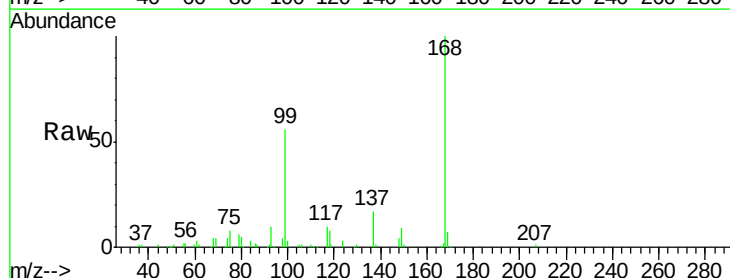
Tgt Ion: 75 Resp: 15032

Ion Ratio Lower Upper

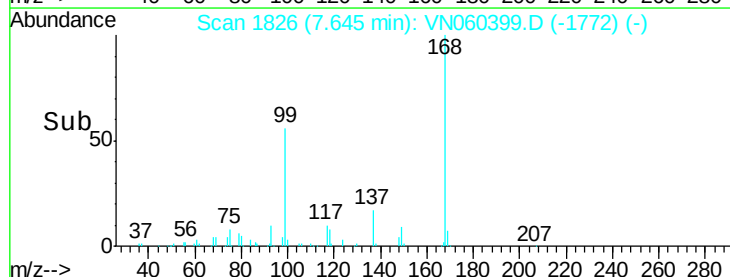
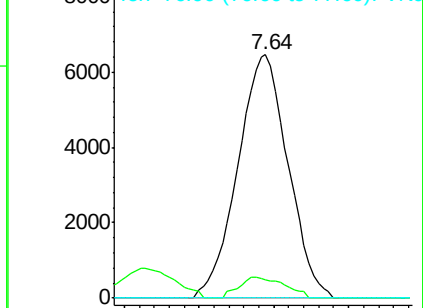
75 100

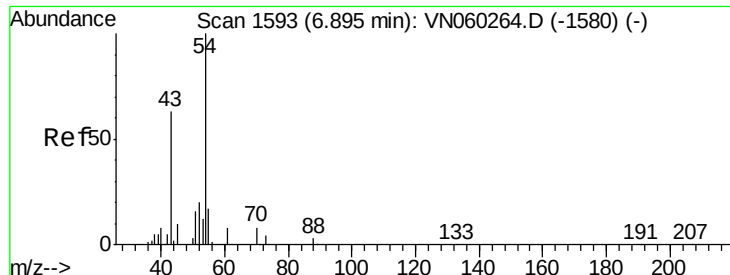
110 7.9 17.3 52.0#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

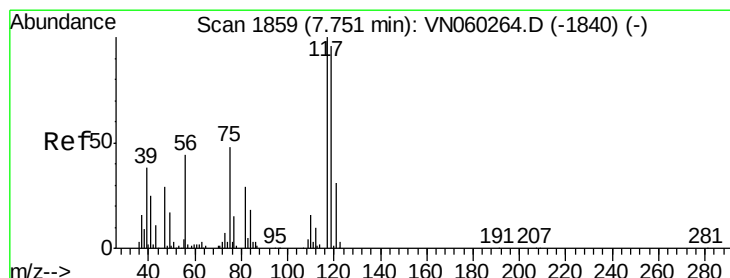
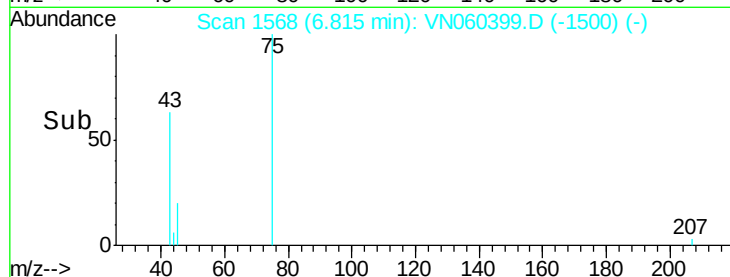
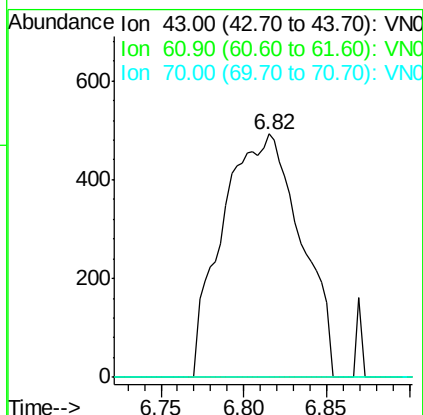
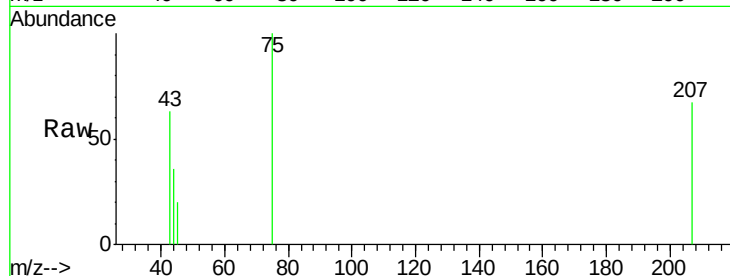




#37
Ethyl Acetate
 Concen: 0.54 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. -0.08 min
 Lab File: VN060399.D
 Acq: 9 Mar 2020 13:41

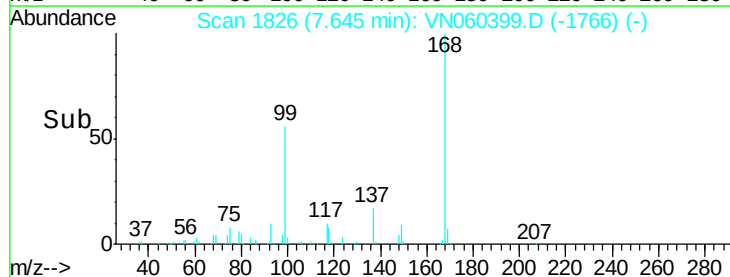
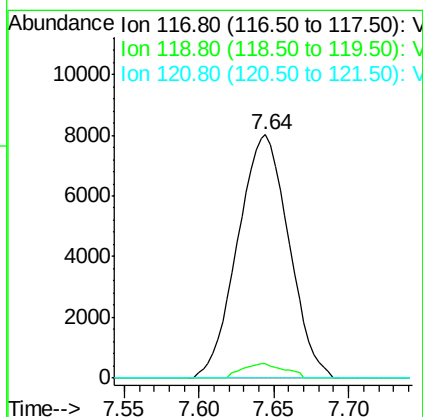
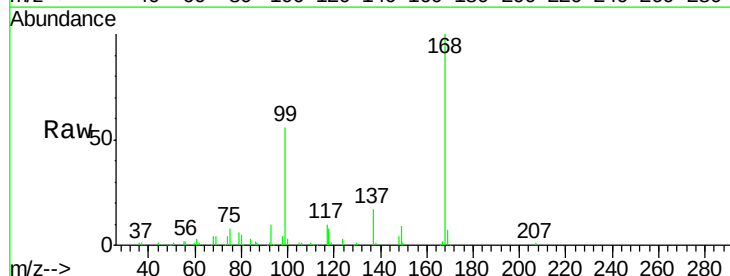
Instrument :
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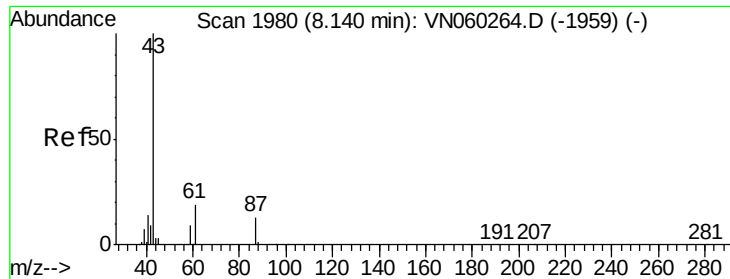
Tgt Ion: 43 Resp: 1610
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
 Concen: 6.24 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060399.D
 Acq: 9 Mar 2020 13:41

Tgt Ion: 117 Resp: 19062
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.7 115.1#
 121 0.0 24.5 36.7#





#43

Isopropyl Acetate

Concen: 8.34 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

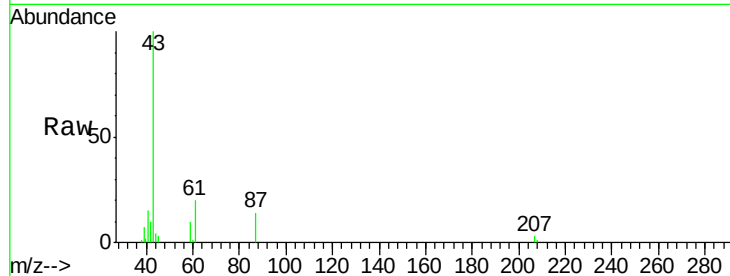
Instrument :

MSVOA_N

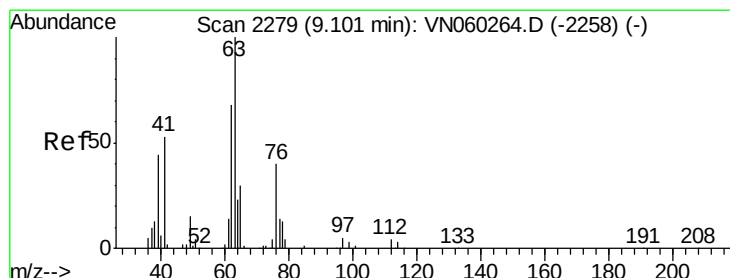
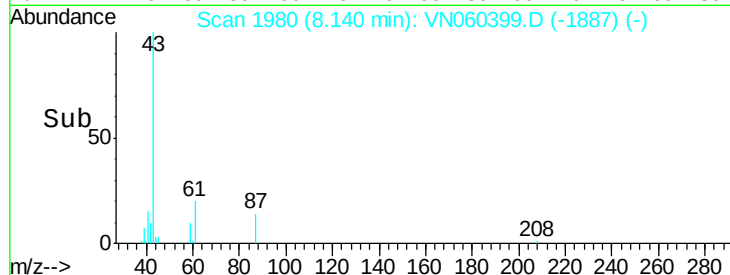
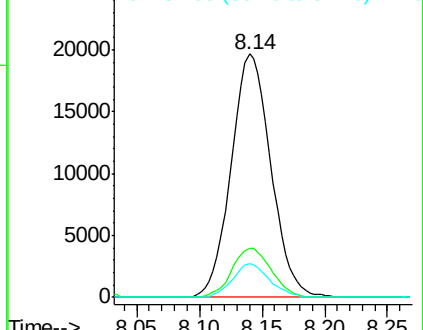
ClientSampleId :

PB127354ZHE#04

Tgt Ion:	43	Resp:	43350
Ion	Ratio	Lower	Upper
43	100		
61	20.1	20.9	31.3#
87	12.7	10.6	16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.33 ug/l

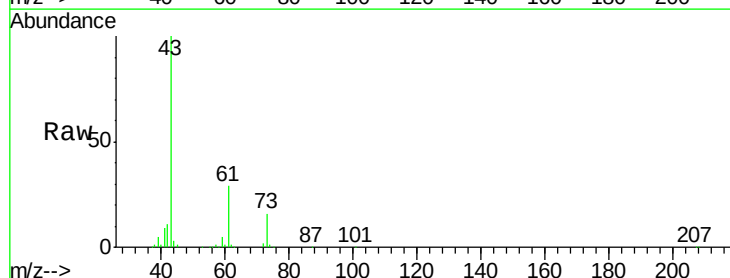
RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

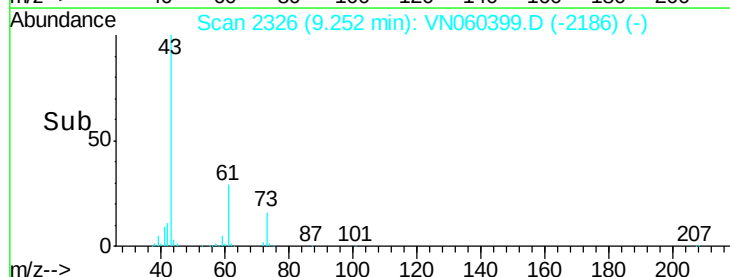
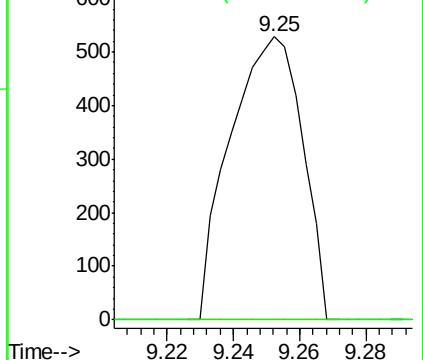
Lab File: VN060399.D

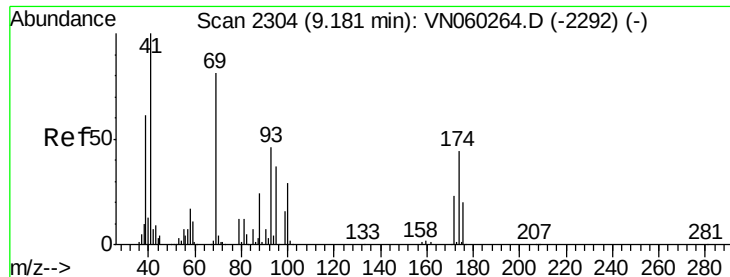
Acq: 9 Mar 2020 13:41

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): VN060264.D (-2258) (-)

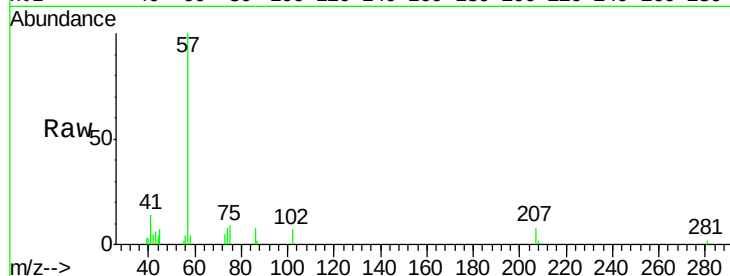




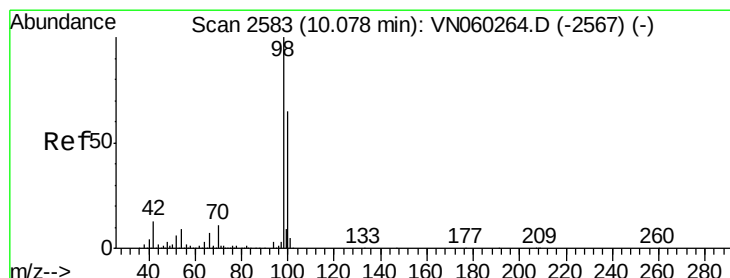
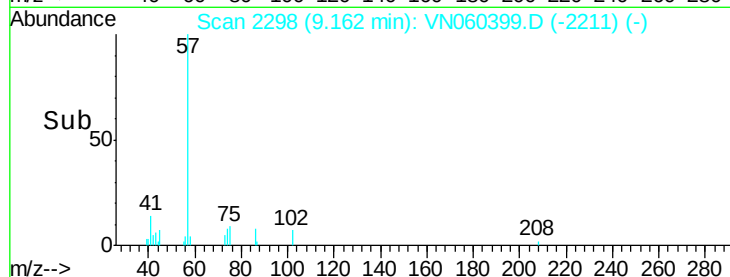
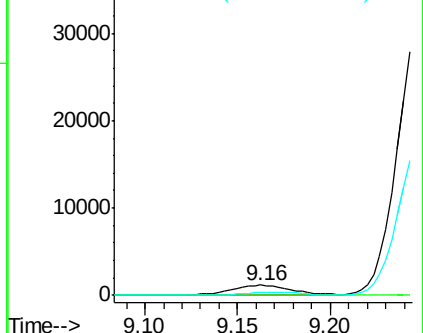
#48
Methyl methacrylate
Concen: 1.11 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#04

Tgt Ion: 41 Resp: 2623
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

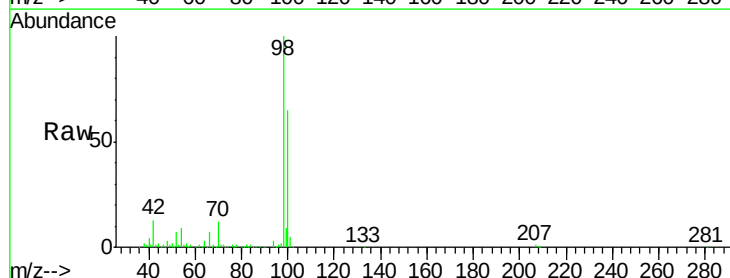


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

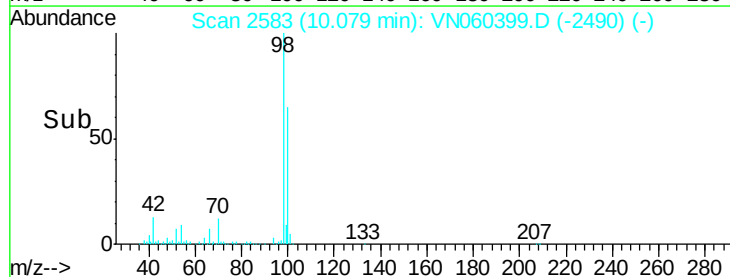
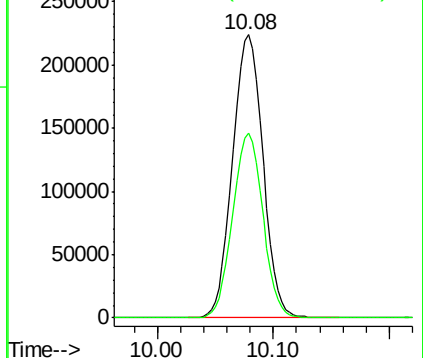


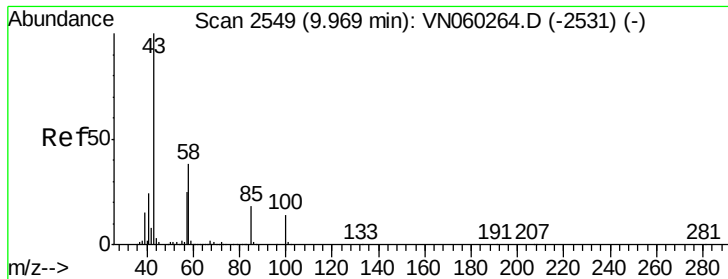
#50
Toluene-d8
Concen: 52.60 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

Tgt Ion: 98 Resp: 406556
Ion Ratio Lower Upper
98 100
100 64.9 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.43 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

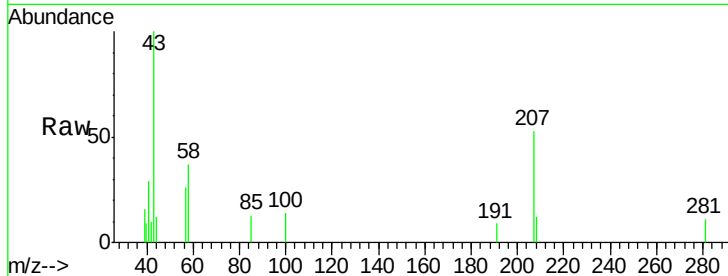
PB127354ZHE#04

Tgt Ion: 43 Resp: 4226

Ion Ratio Lower Upper

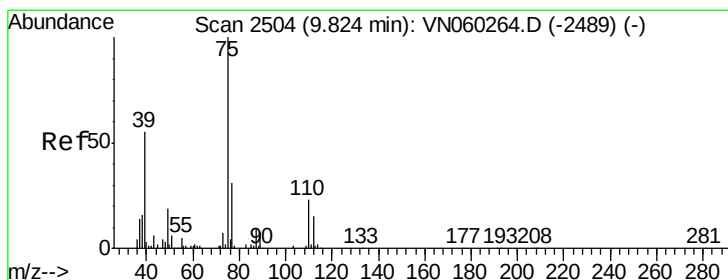
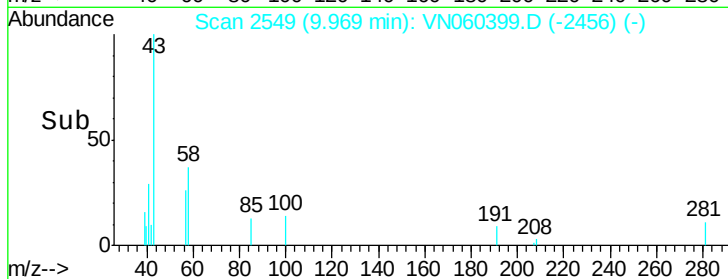
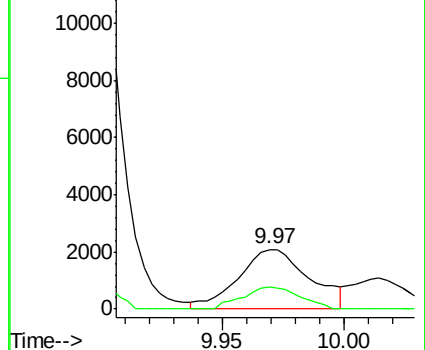
43 100

58 29.8 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.63 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

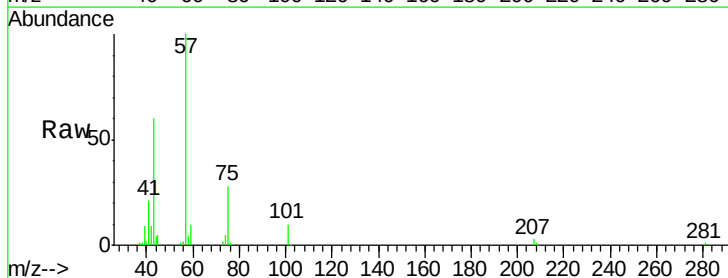
Tgt Ion: 75 Resp: 18530

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

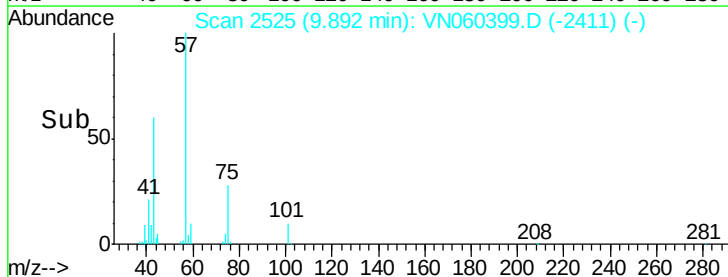
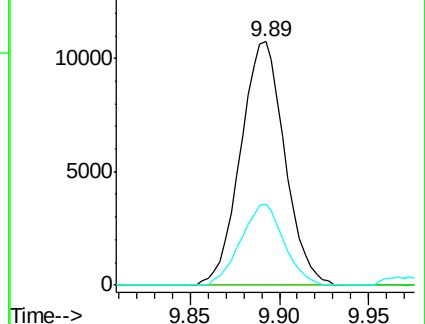
39 33.4 43.8 65.8#

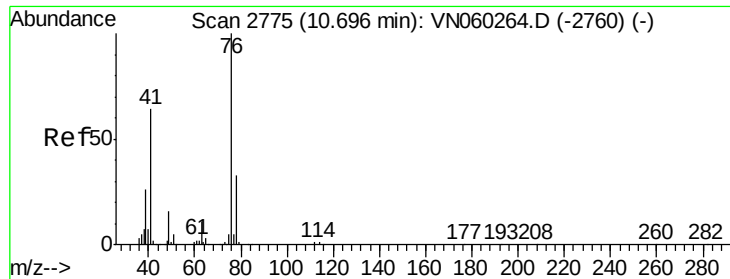


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.81 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

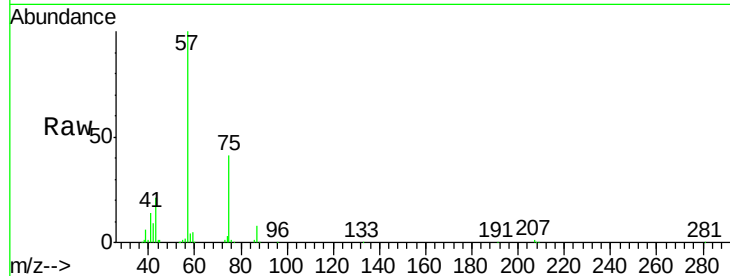
PB127354ZHE#04

Tgt Ion: 76 Resp: 3060

Ion Ratio Lower Upper

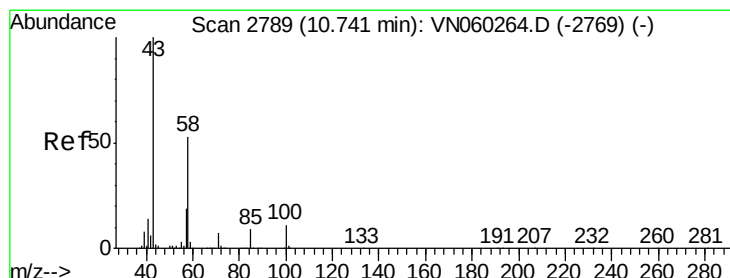
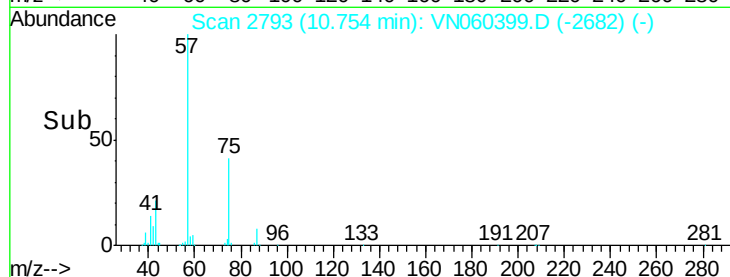
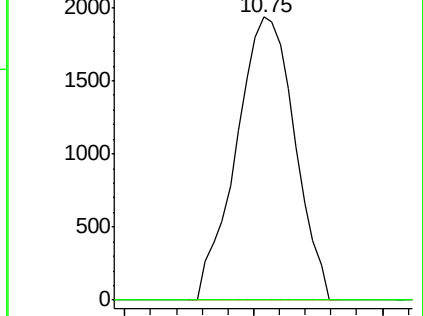
76 100

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: 21.70 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060399.D

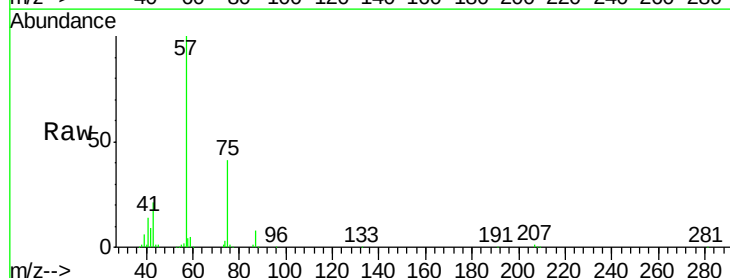
Acq: 9 Mar 2020 13:41

Tgt Ion: 43 Resp: 46951

Ion Ratio Lower Upper

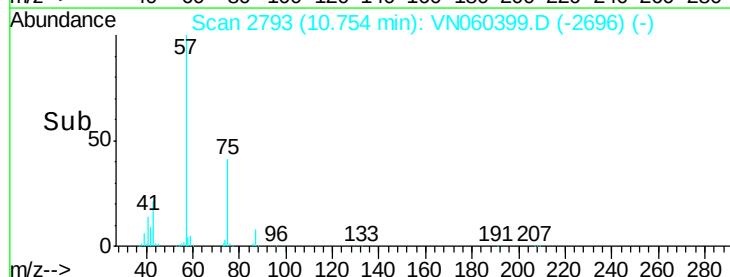
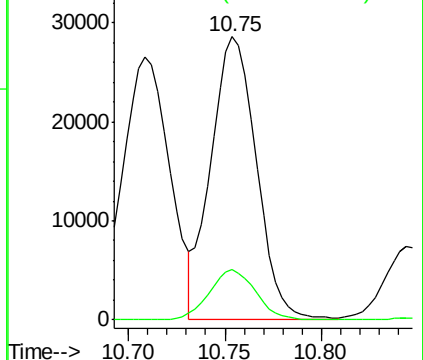
43 100

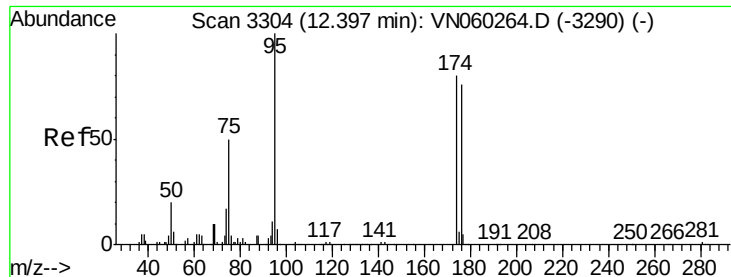
58 17.9 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

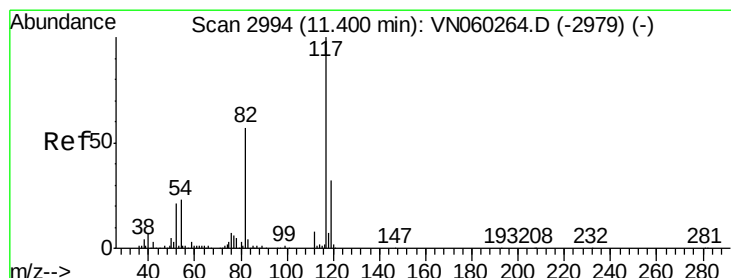
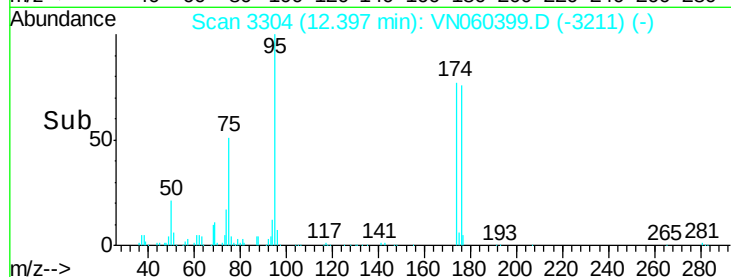
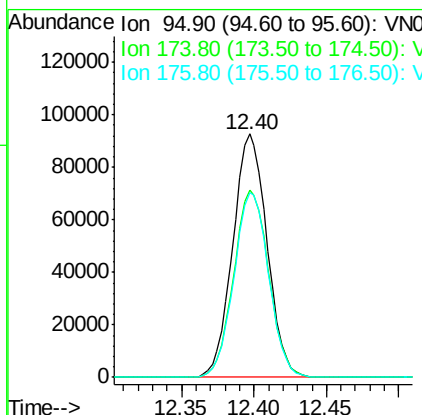
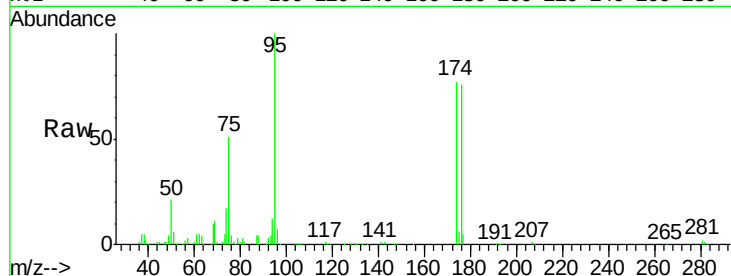




#62
4-Bromofluorobenzene
Concen: 51.90 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

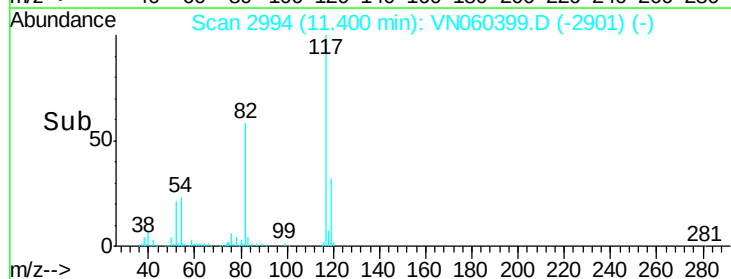
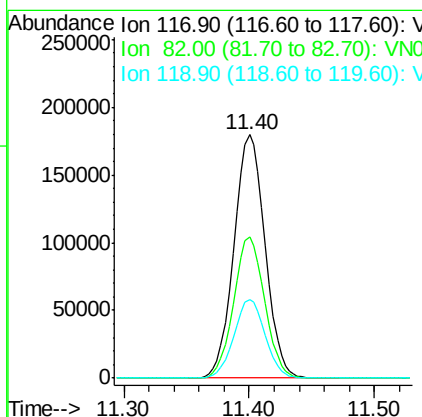
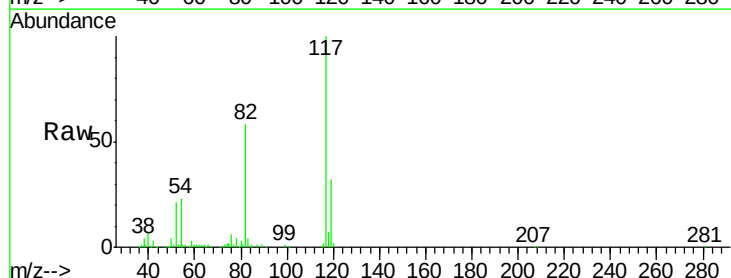
Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#04

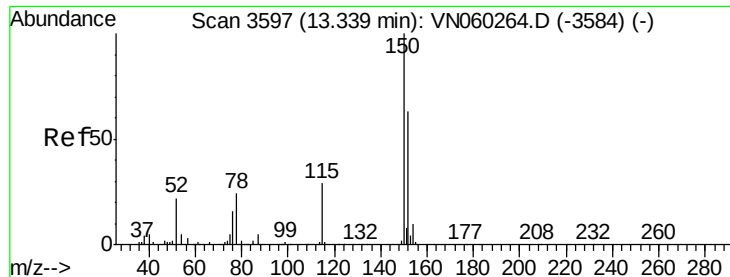
Tgt Ion: 95 Resp: 152072
Ion Ratio Lower Upper
95 100
174 78.7 0.0 159.2
176 77.1 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

Tgt Ion: 117 Resp: 308741
Ion Ratio Lower Upper
117 100
82 57.9 45.8 68.6
119 32.5 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#04

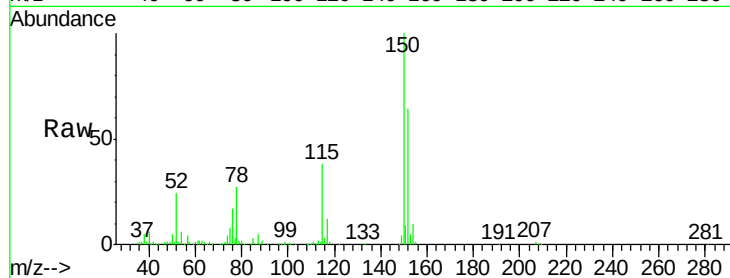
Tgt Ion:152 Resp: 145521

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

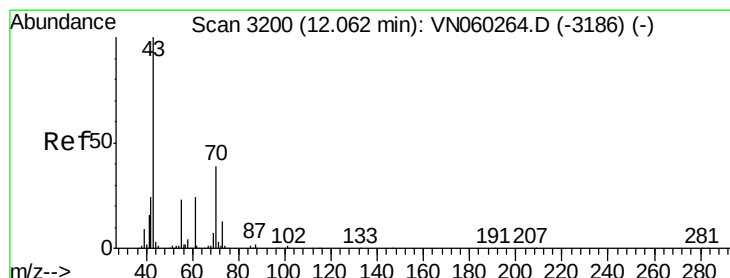
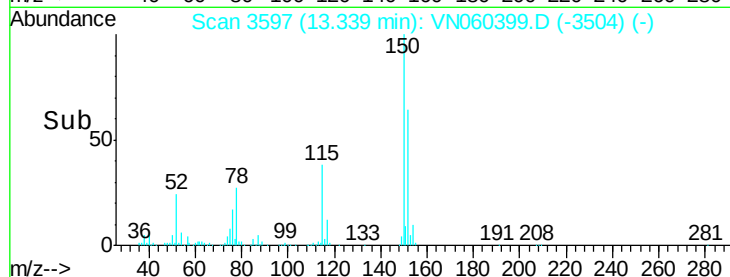
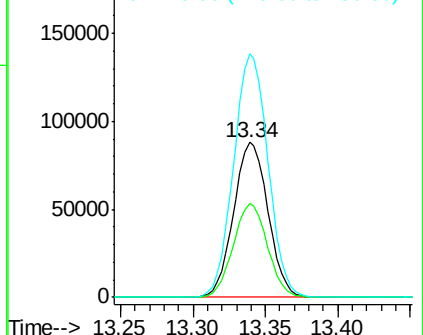
150 156.9 0.0 349.6



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: 0.66 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Tgt Ion: 43 Resp: 3118

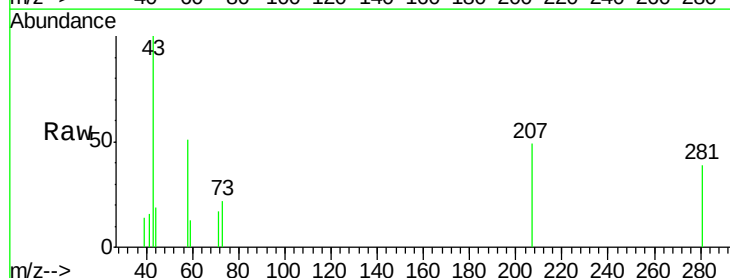
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

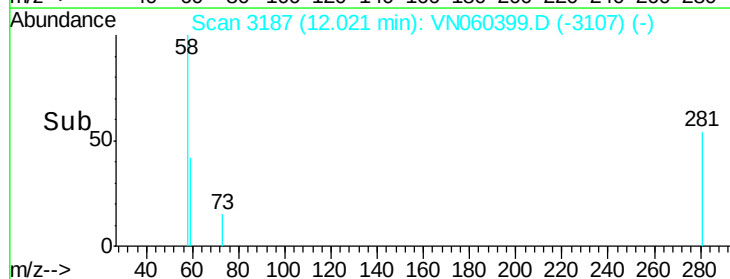
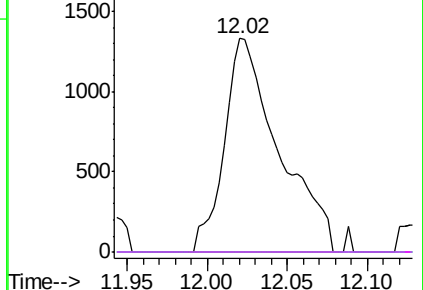


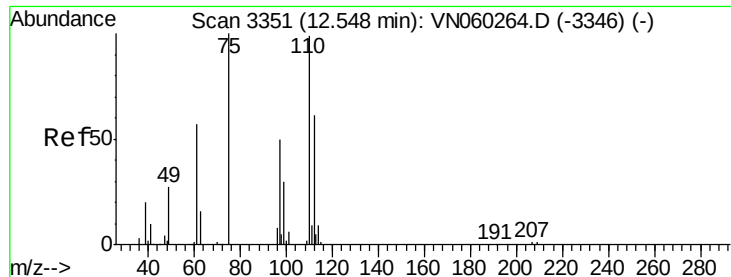
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.41 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

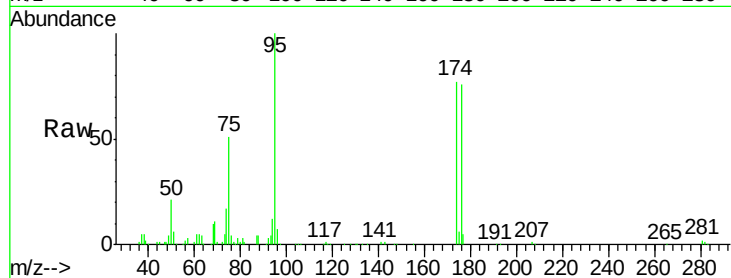
PB127354ZHE#04

Tgt Ion: 75 Resp: 77940

Ion Ratio Lower Upper

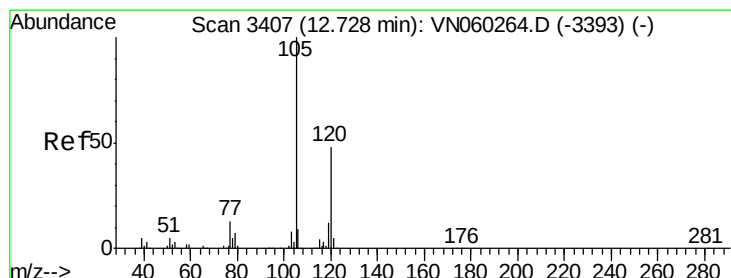
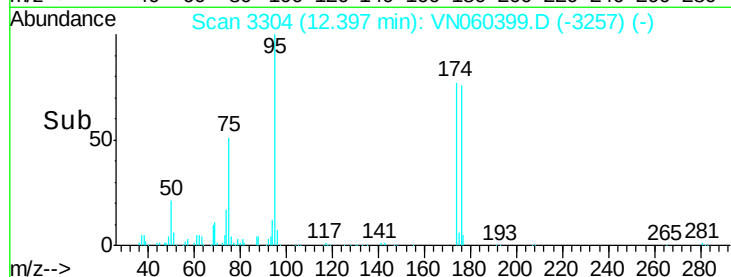
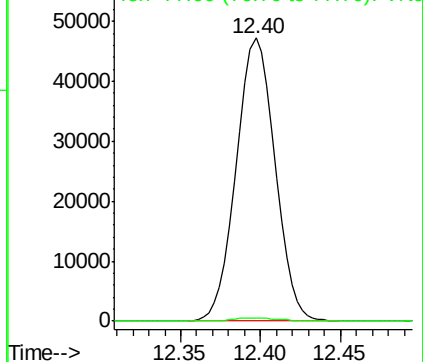
75 100

77 1.2 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: 0.46 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060399.D

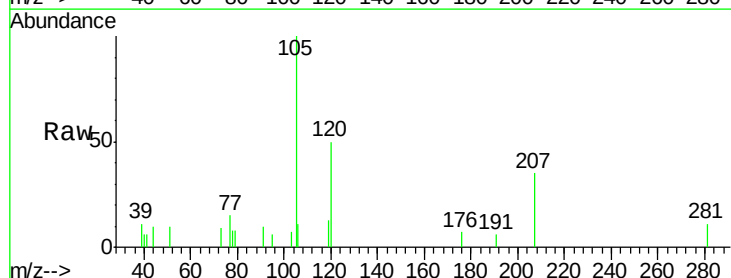
Acq: 9 Mar 2020 13:41

Tgt Ion: 105 Resp: 4149

Ion Ratio Lower Upper

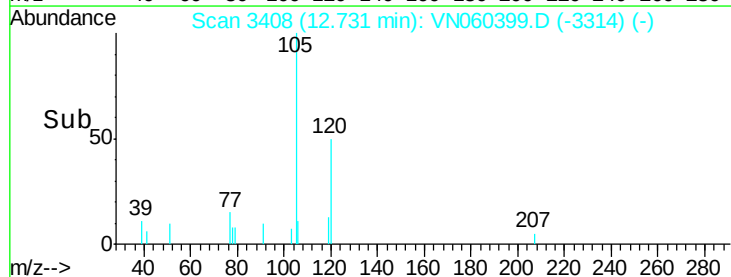
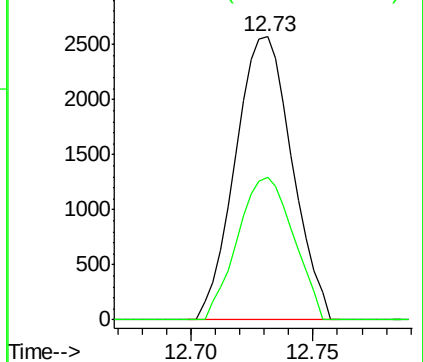
105 100

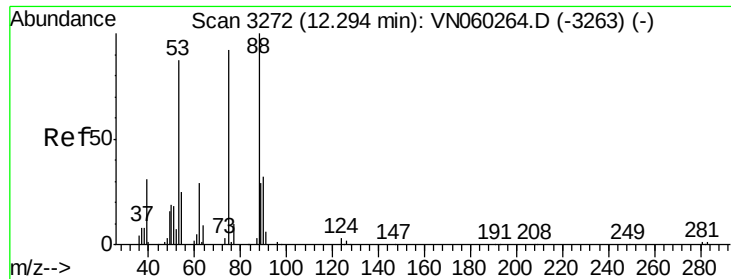
120 49.5 24.1 72.4



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: 67.39 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

Instrument :

MSVOA_N

ClientSampleId :

PB127354ZHE#04

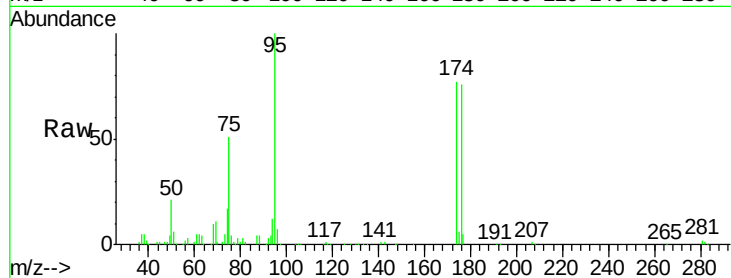
Tgt Ion: 75 Resp: 77940

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

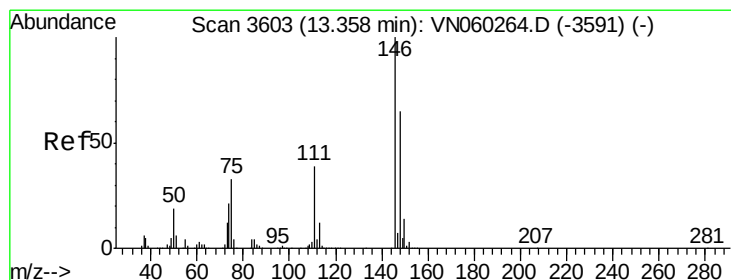
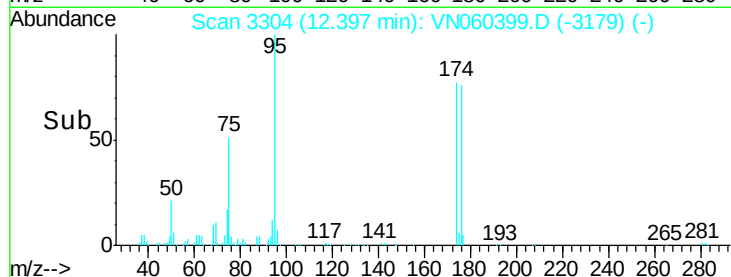
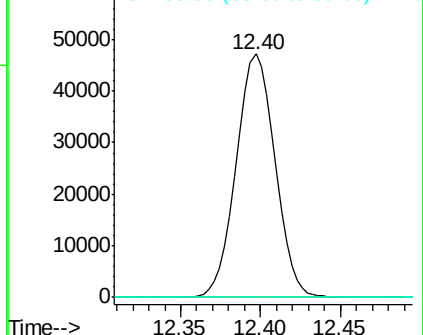
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060399.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060399.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060399.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN060399.D

Acq: 9 Mar 2020 13:41

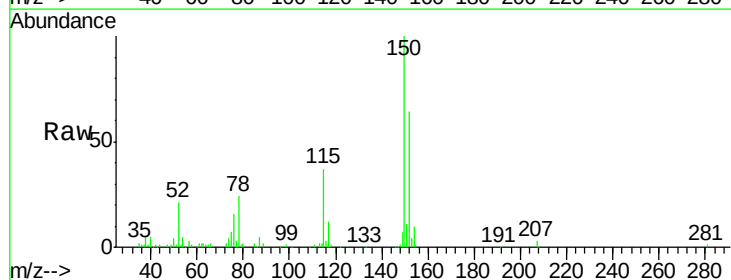
Tgt Ion: 146 Resp: 148

Ion Ratio Lower Upper

146 100

111 1336.5 19.8 59.4#

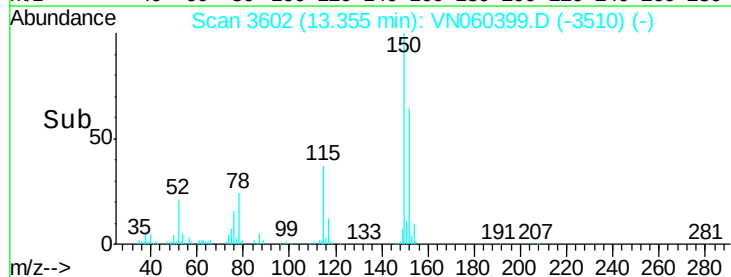
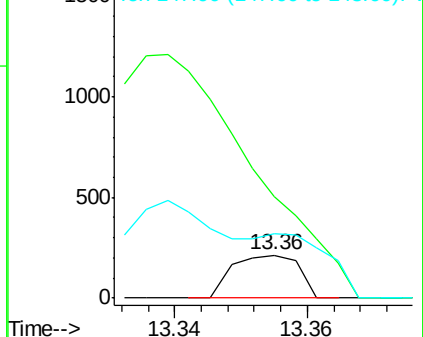
148 430.4 32.3 96.9#

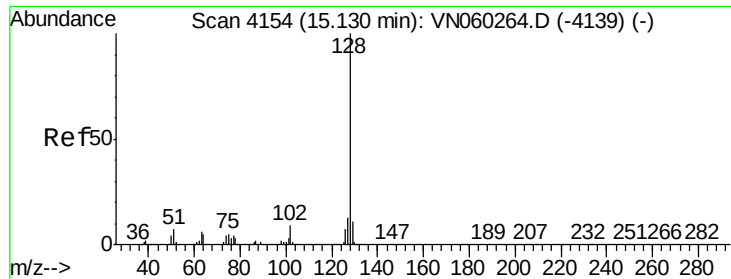


Abundance Ion 145.90 (145.60 to 146.60): VN060399.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060399.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060399.D (-3510) (-)

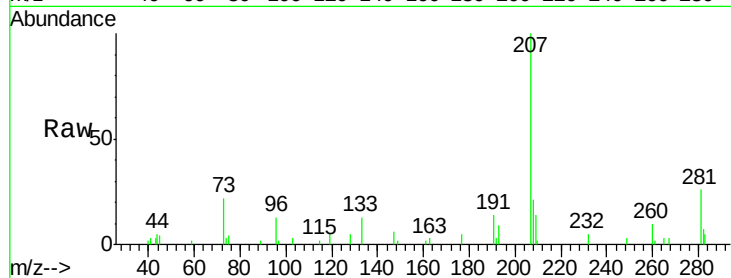




#95
Naphthalene
Concen: Below Cal
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN060399.D
Acq: 9 Mar 2020 13:41

Instrument :
MSVOA_N
ClientSampleId :
PB127354ZHE#04

Tgt 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

