

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060524.D
 Acq On : 16 Mar 2020 15:37
 Operator : JC/MD
 Sample : L1942-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-10-SA

Quant Time: Mar 17 08:44:52 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	215976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	358870	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	338262	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154866	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	140581	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
35) Dibromofluoromethane	7.56	113	105268	63.20	ug/l	0.00
Spiked Amount			Recovery	=	126.40%	
50) Toluene-d8	10.08	98	442858	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
62) 4-Bromofluorobenzene	12.40	95	166054	51.96	ug/l	0.00
Spiked Amount			Recovery	=	103.92%	

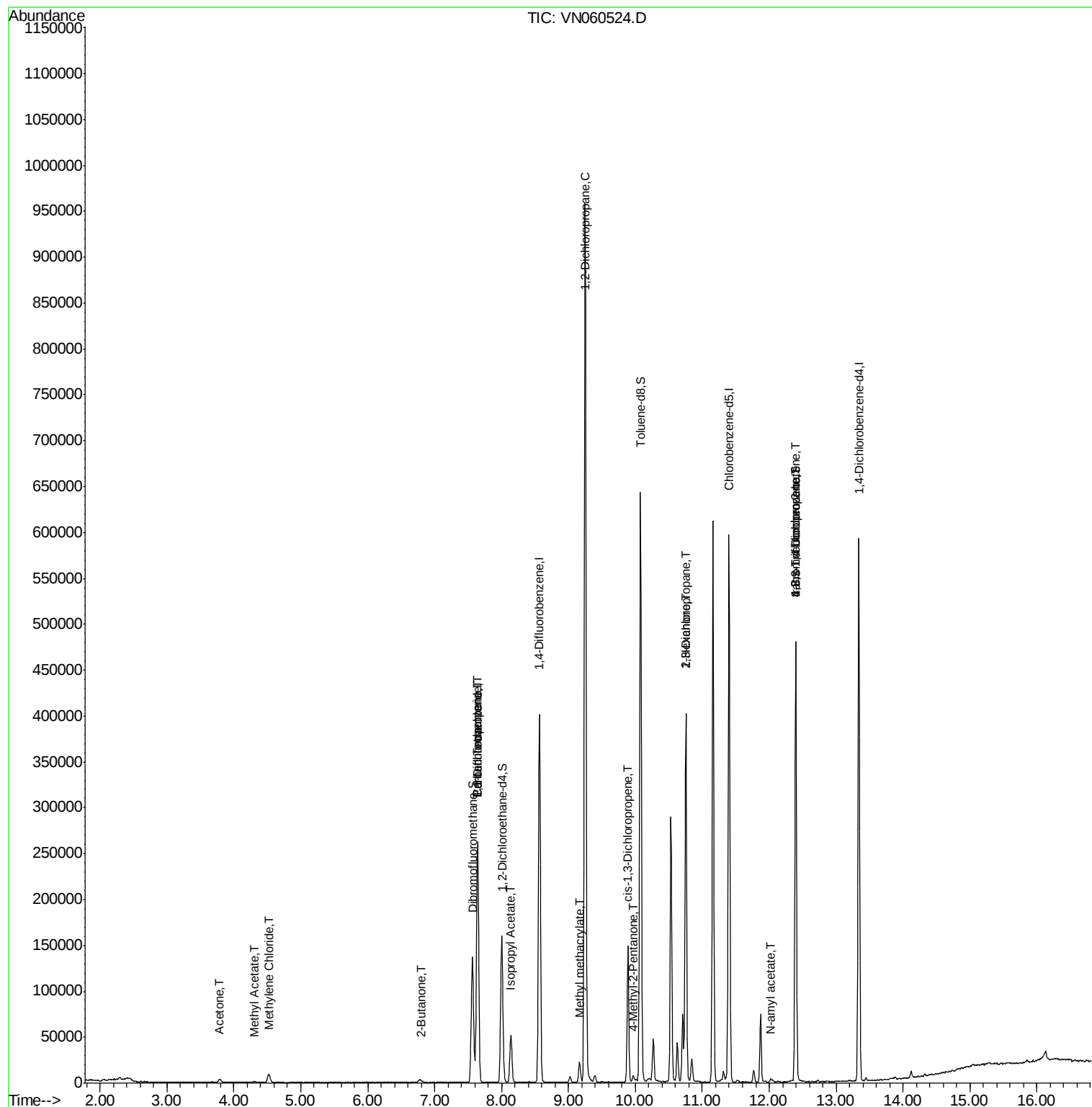
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	7226	8.075	ug/l	92
18) Methyl Acetate	4.30	43	1084	0.363	ug/l #	83
20) Methylene Chloride	4.52	84	6945	2.826	ug/l	98
25) 2-Butanone	6.82	43	1778	1.230	ug/l #	49
31) Cyclohexane	7.64	56	4305	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16961	4.959	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20165	6.056	ug/l #	16
43) Isopropyl Acetate	8.14	43	63586	11.215	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	1071	0.411	ug/l #	44
48) Methyl methacrylate	9.16	41	3445	1.332	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4461	1.388	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	26551	6.088	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3970	0.968	ug/l #	42
59) 2-Hexanone	10.75	43	59068	25.027	ug/l #	52
74) N-amyl acetate	12.02	43	3652	0.728	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	84189	24.778	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84189	68.398	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	93	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.28	146	93	Below Cal	#	25
95) Naphthalene	15.13	128	462	Below Cal	#	69

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

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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# 1825

Delta R.T. -0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampled :

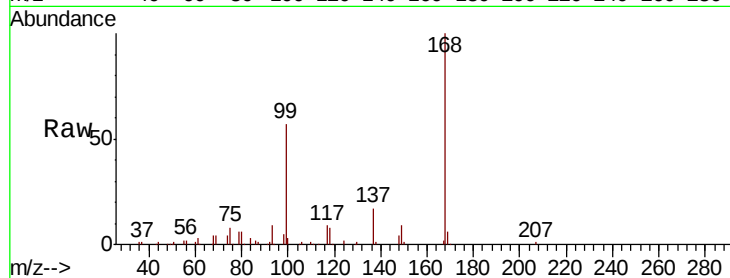
TP-10-SA

Tot Ion:168 Resp: 215976

Ion Ratio Lower Upper

168 100

99 56.6 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

100000

80000

60000

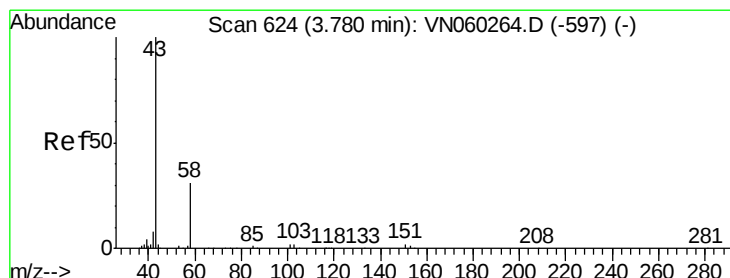
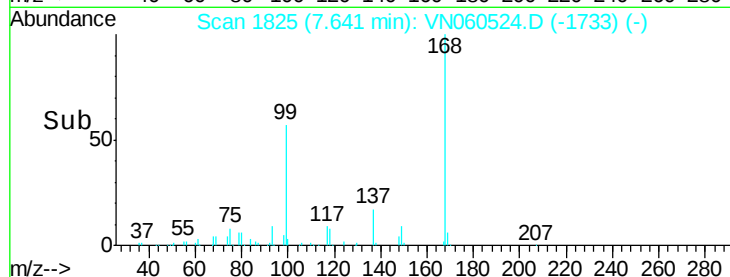
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 8.075 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060524.D

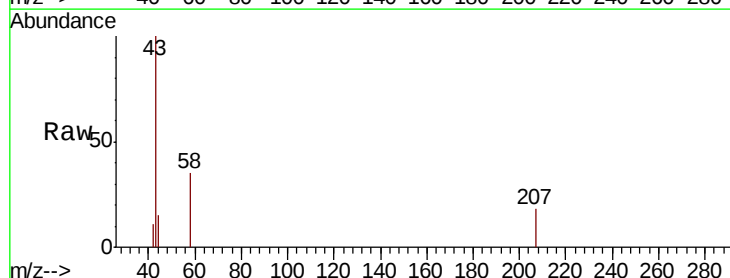
Acq: 16 Mar 2020 15:37

Tgt Ion: 43 Resp: 7226

Ion Ratio Lower Upper

43 100

58 34.8 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2500

2000

1500

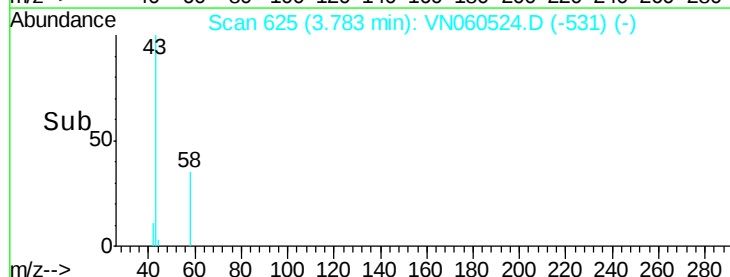
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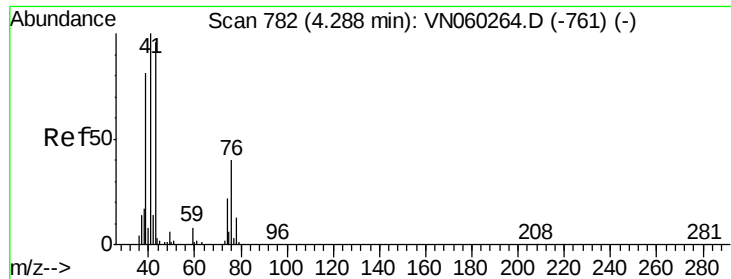
500

0

3.70 3.75 3.80 3.85

Time-->

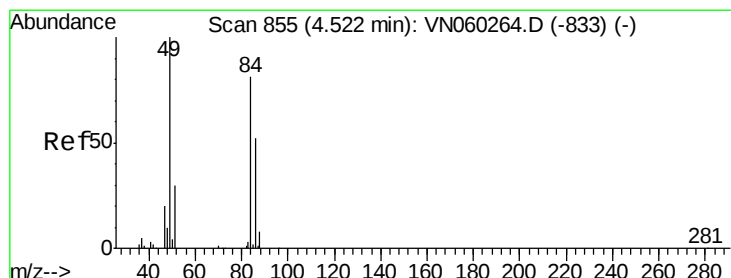
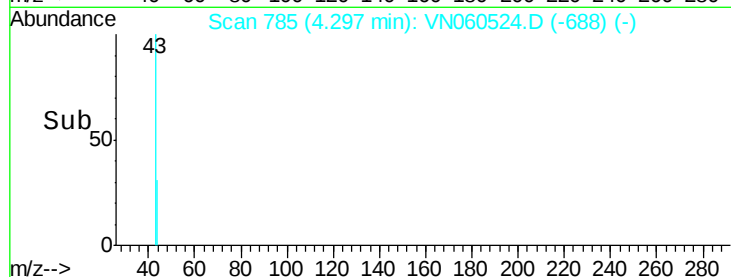
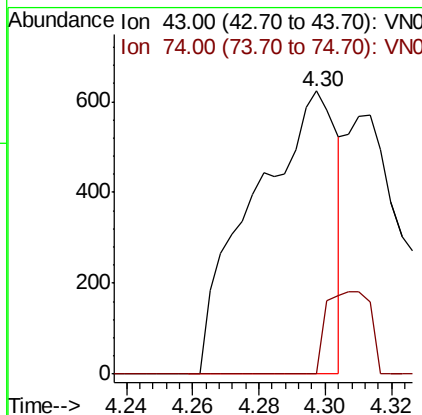
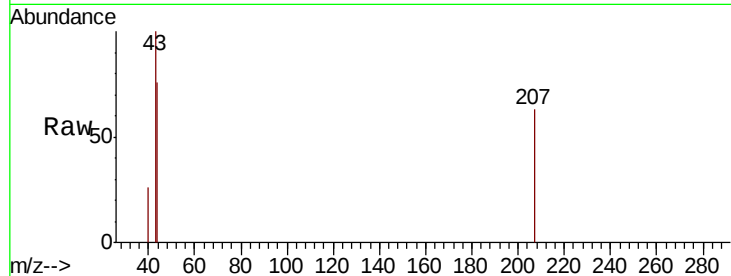




#18
Methvl Acetate
Concen: 0.363 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060524.D
Acq: 16 Mar 2020 15:37

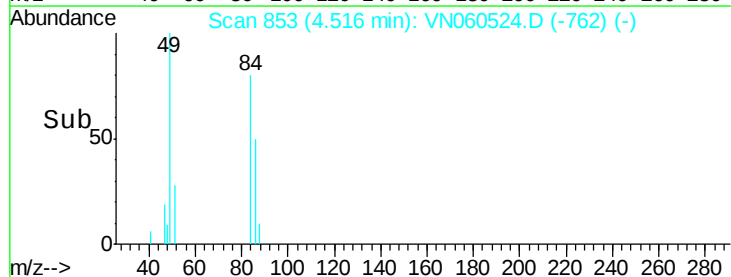
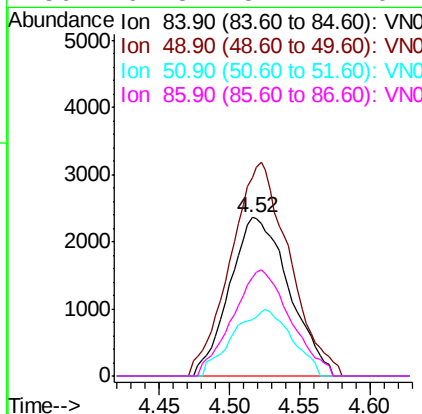
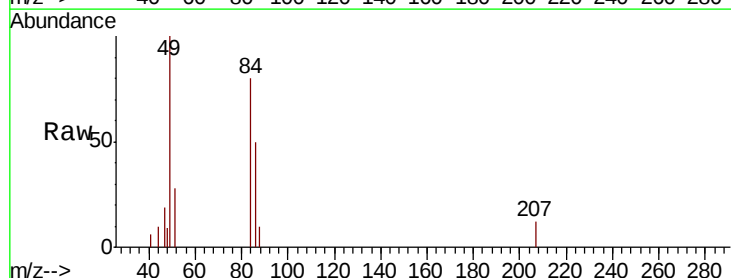
Instrument :
MSVOA_N
ClientSampleId :
TP-10-SA

Tot Ion: 43 Resp: 1084
Ion Ratio Lower Upper
43 100
74 15.2 18.8 28.2#



#20
Methylene Chloride
Concen: 2.826 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060524.D
Acq: 16 Mar 2020 15:37

Tgt Ion: 84 Resp: 6945
Ion Ratio Lower Upper
84 100
49 125.7 99.3 148.9
51 35.6 30.1 45.1
86 62.3 51.1 76.7

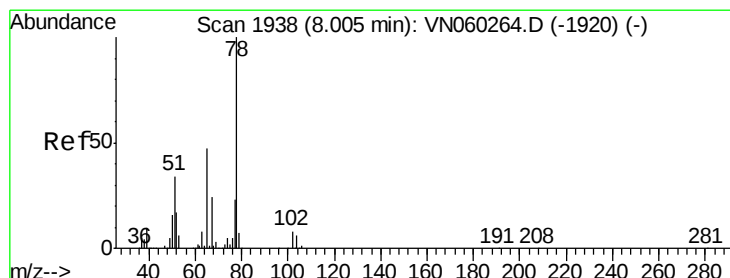
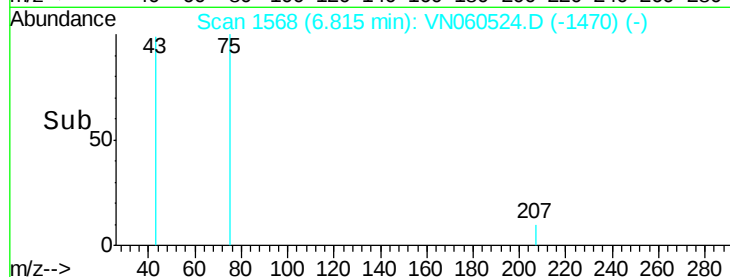
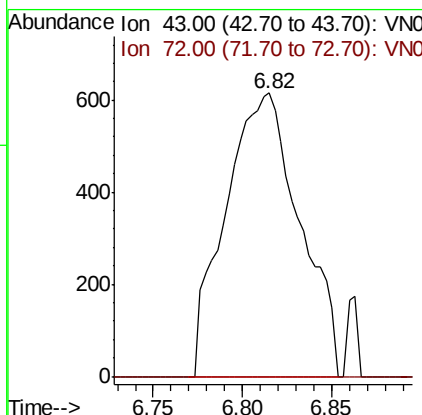
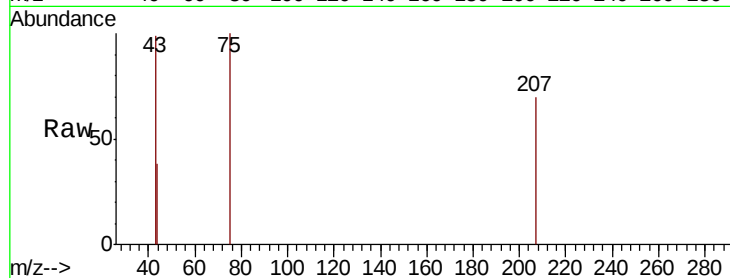




#25
 2-Butanone
 Concen: 1.230 ug/l
 RT: 6.82 min Scan# 1568
 Delta R.T. 0.02 min
 Lab File: VN060524.D
 Acq: 16 Mar 2020 15:37

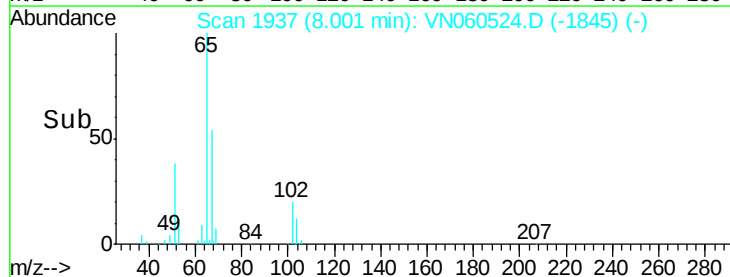
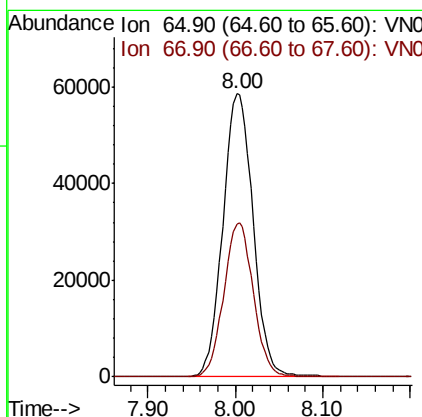
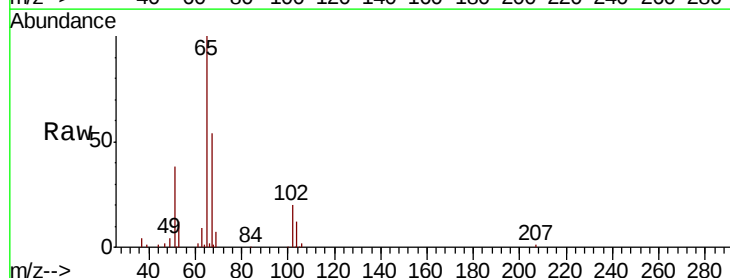
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-10-SA

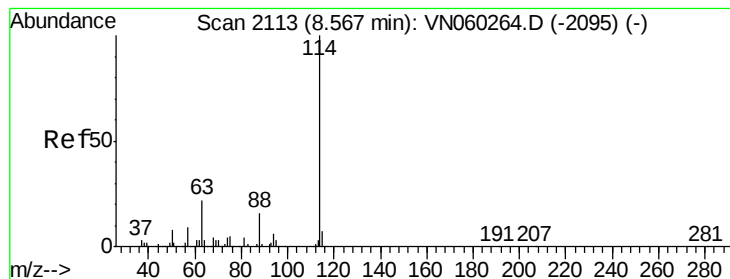
Tot Ion: 43 Resp: 1778
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 50.733 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060524.D
 Acq: 16 Mar 2020 15:37

Tgt Ion: 65 Resp: 140581
 Ion Ratio Lower Upper
 65 100
 67 53.1 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: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

TP-10-SA

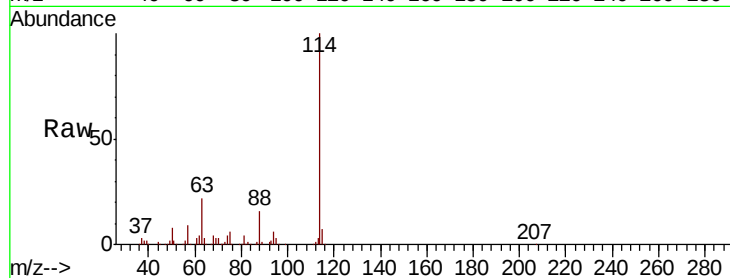
Tot Ion:114 Resp: 358870

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

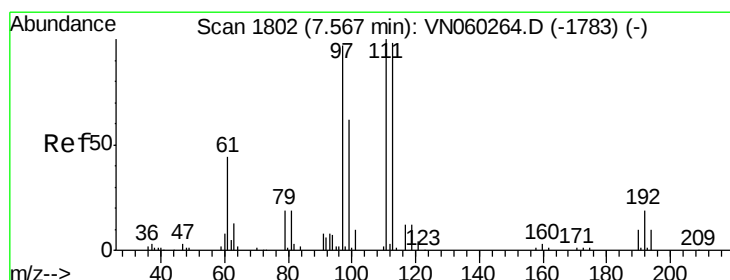
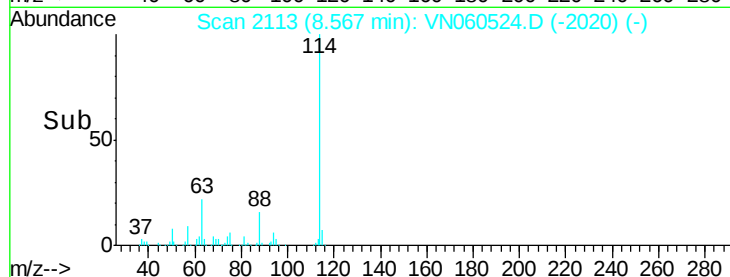
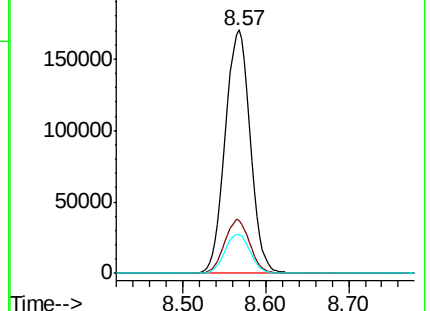
88 16.1 0.0 31.6



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: 63.195 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

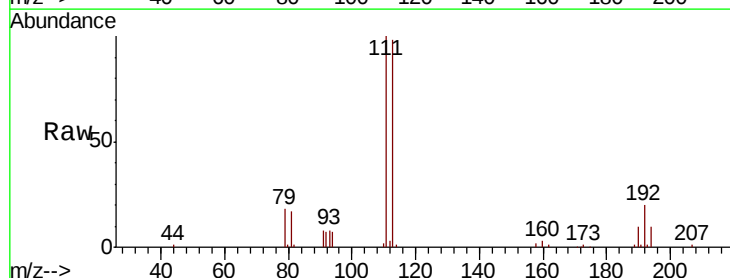
Tgt Ion:113 Resp: 105268

Ion Ratio Lower Upper

113 100

111 103.7 82.4 123.6

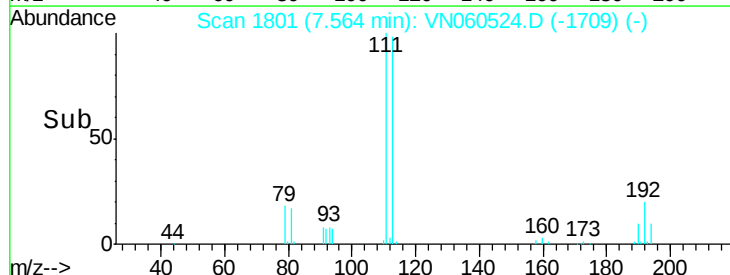
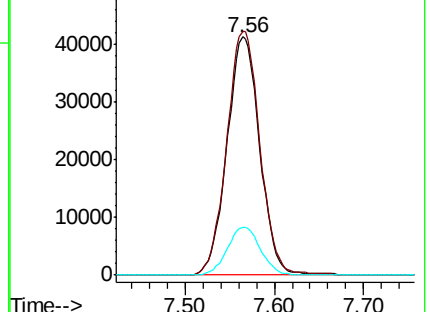
192 20.3 16.2 24.2



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: 4.959 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

TP-10-SA

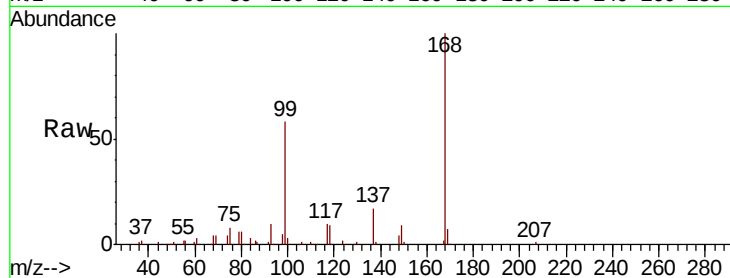
Tot Ion: 75 Resp: 16961

Ion Ratio Lower Upper

75 100

110 7.3 17.3 52.0#

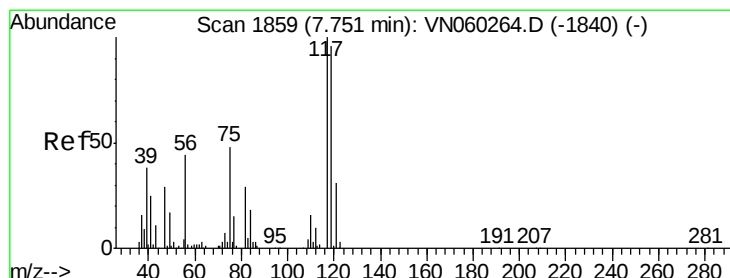
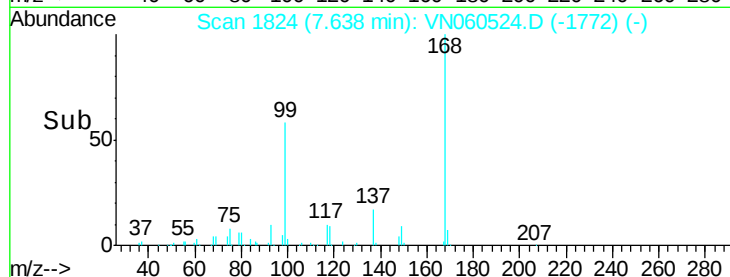
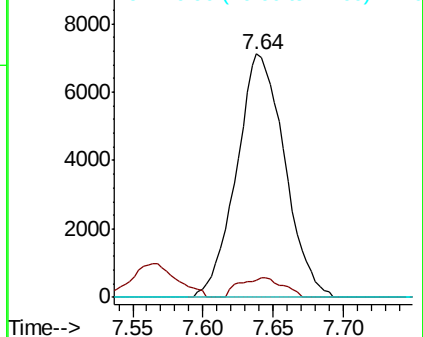
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060524.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060524.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060524.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.056 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

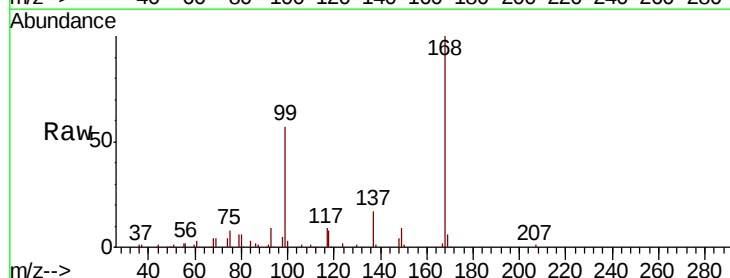
Tgt Ion: 117 Resp: 20165

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

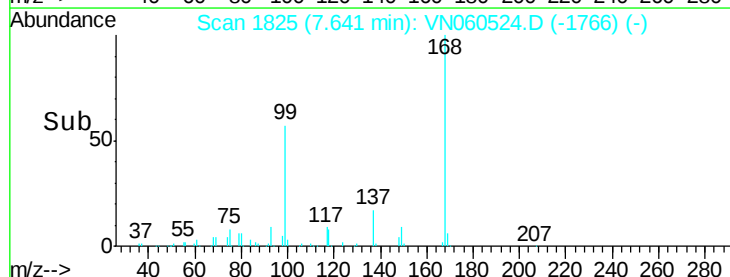
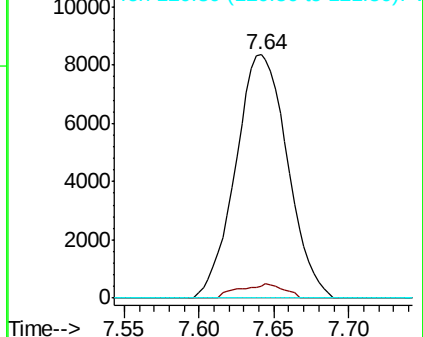
121 0.0 24.5 36.7#

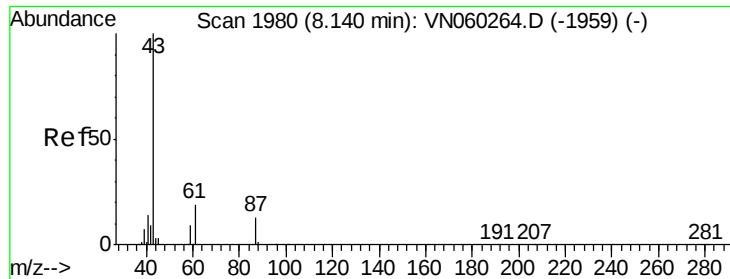


Abundance Ion 116.80 (116.50 to 117.50): VN060524.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060524.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060524.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 11.215 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

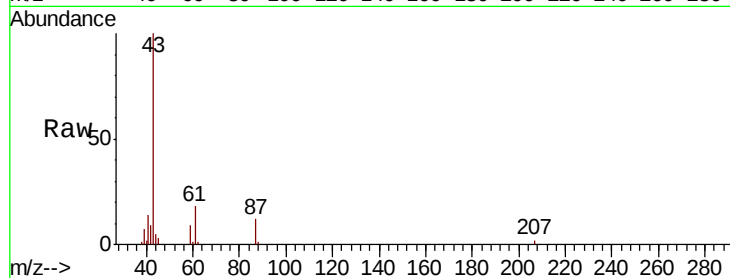
MSVOA_N

ClientSampleId :

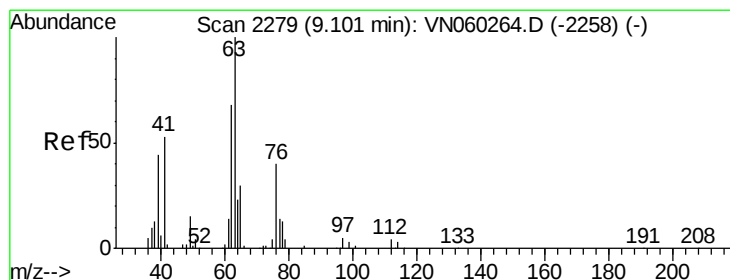
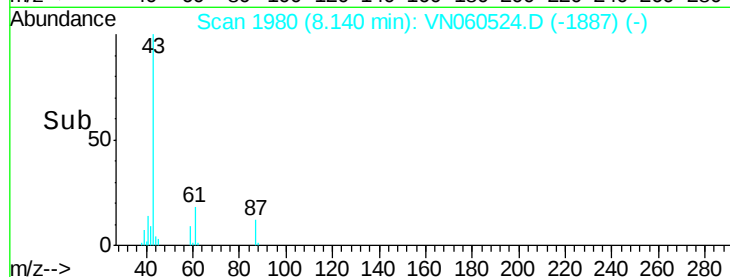
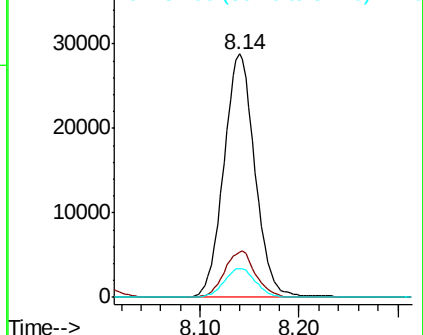
TP-10-SA

Tot Ion: 43 Resp: 63586

Ion	Ratio	Lower	Upper
43	100		
61	18.7	20.9	31.3#
87	11.9	10.6	16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060524.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.411 ug/l

RT: 9.24 min Scan# 2323

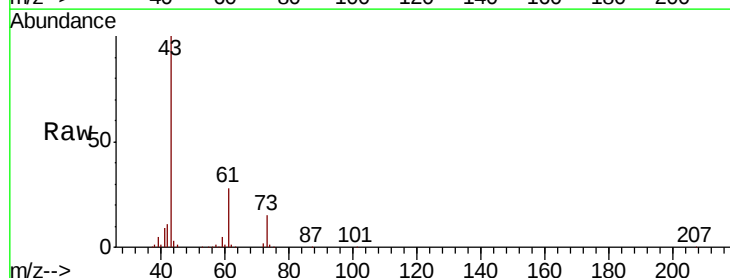
Delta R.T. 0.14 min

Lab File: VN060524.D

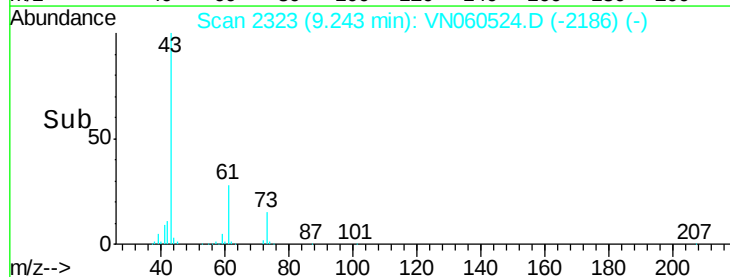
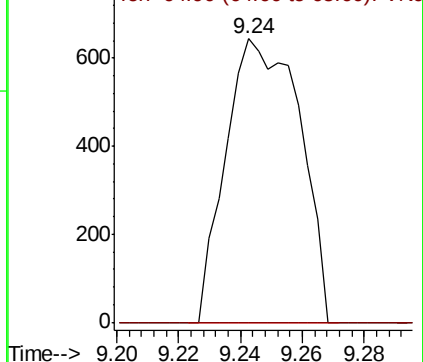
Acq: 16 Mar 2020 15:37

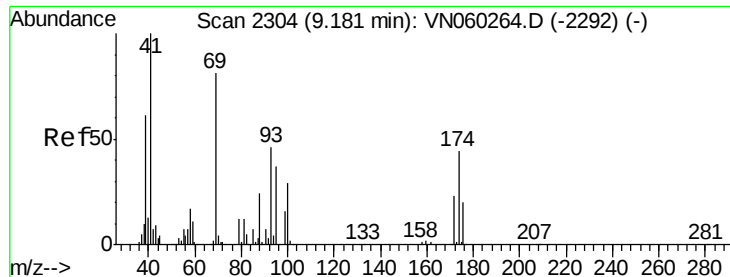
Tgt Ion: 63 Resp: 1071

Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.4	36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060524.D (-2258) (-)

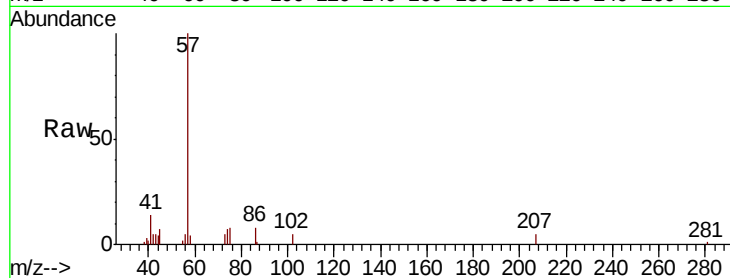




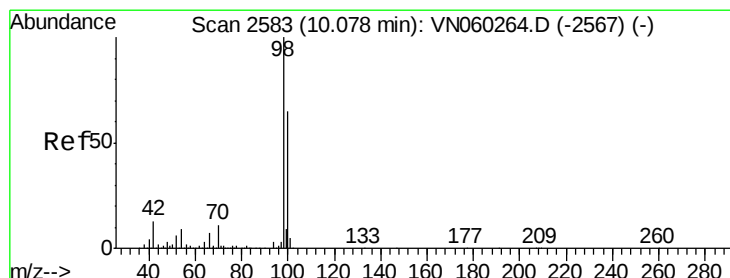
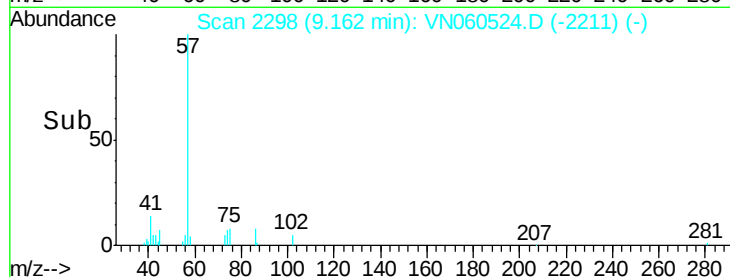
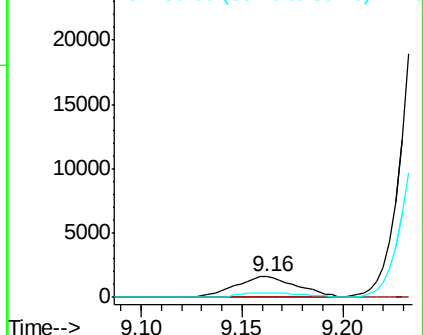
#48
Methvl methacrylate
Concen: 1.332 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060524.D
Acq: 16 Mar 2020 15:37

Instrument :
MSVOA_N
ClientSampleId :
TP-10-SA

Tot Ion: 41 Resp: 3445
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

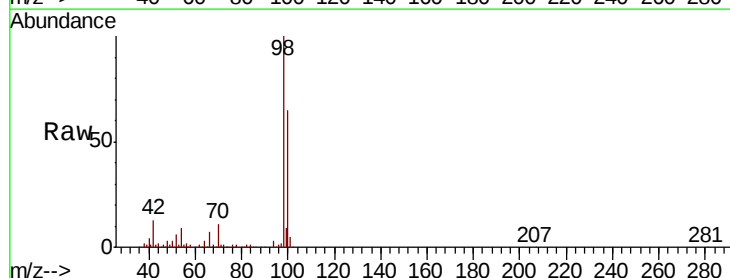


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

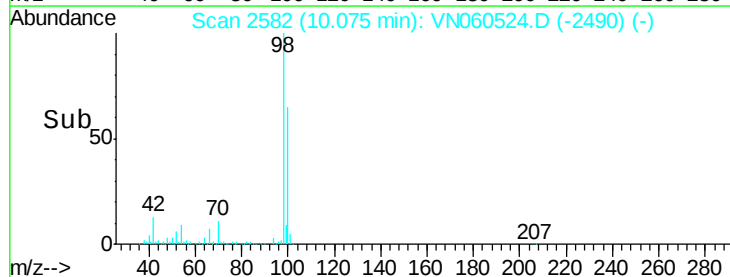
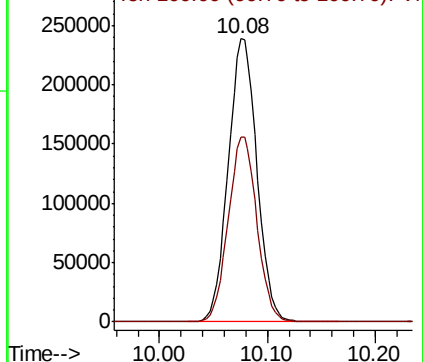


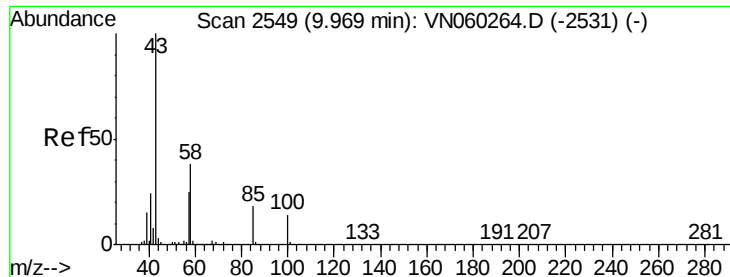
#50
Toluene-d8
Concen: 52.530 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060524.D
Acq: 16 Mar 2020 15:37

Tgt Ion: 98 Resp: 442858
Ion Ratio Lower Upper
98 100
100 65.3 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: 1.388 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampled :

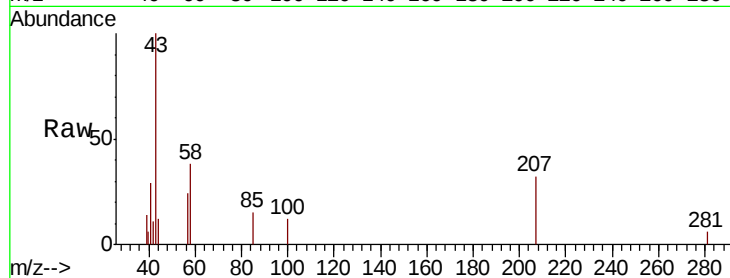
TP-10-SA

Tot Ion: 43 Resp: 4461

Ion Ratio Lower Upper

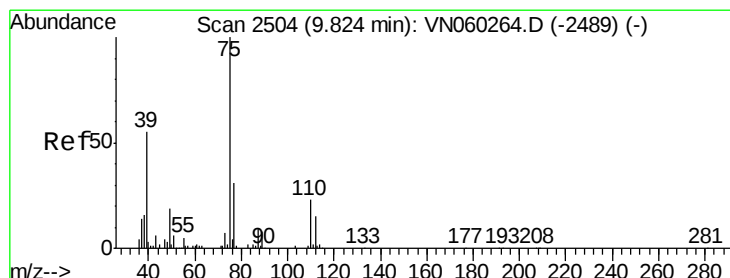
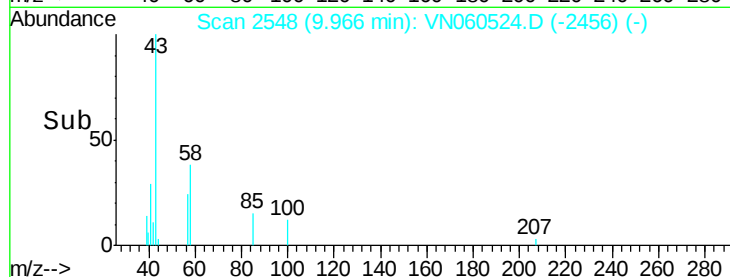
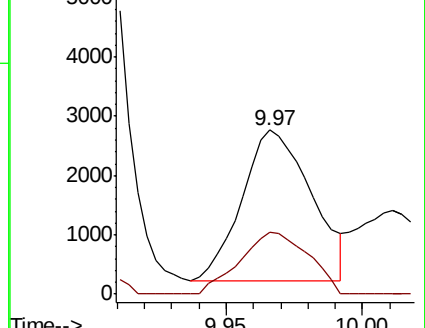
43 100

58 40.7 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060524.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060524.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.088 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

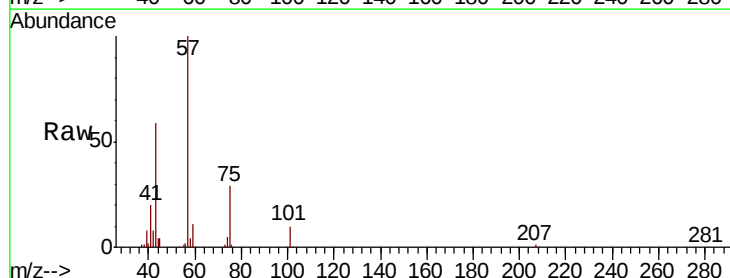
Tgt Ion: 75 Resp: 26551

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

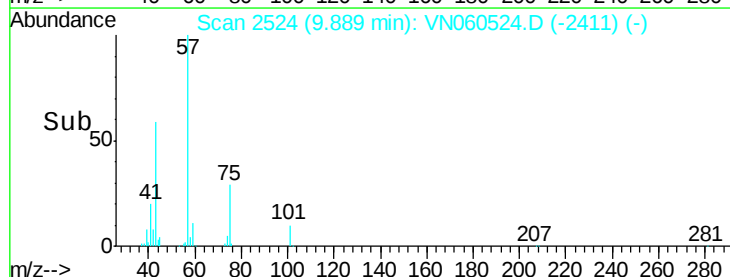
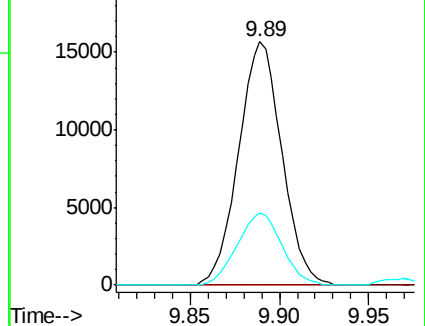
39 29.5 43.8 65.8#

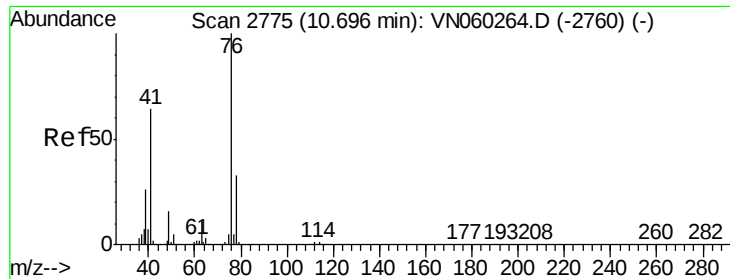


Abundance Ion 74.90 (74.60 to 75.60): VN060524.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060524.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060524.D (-2411) (-)

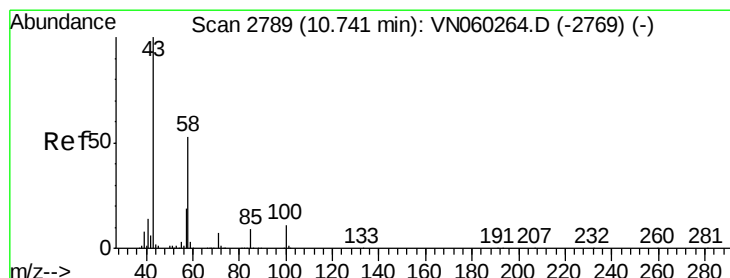
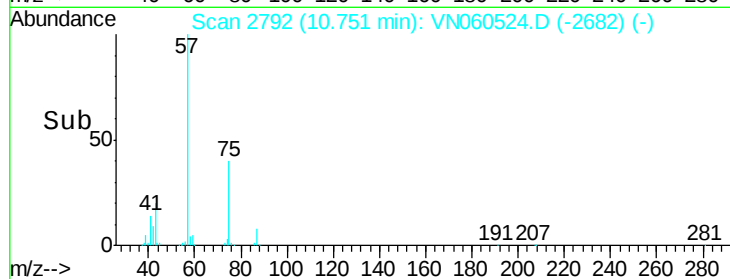
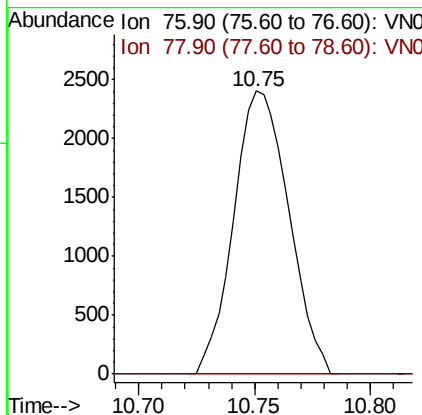
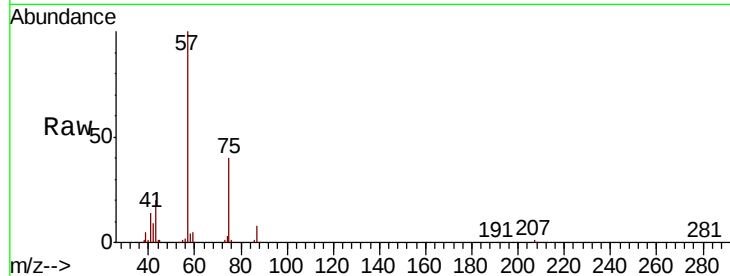




#57
 1,3-Dichloropropane
 Concen: 0.968 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060524.D
 Acq: 16 Mar 2020 15:37

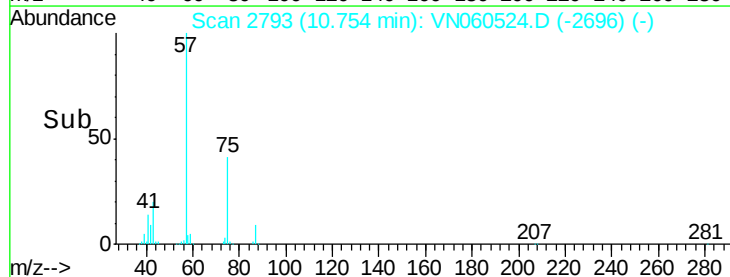
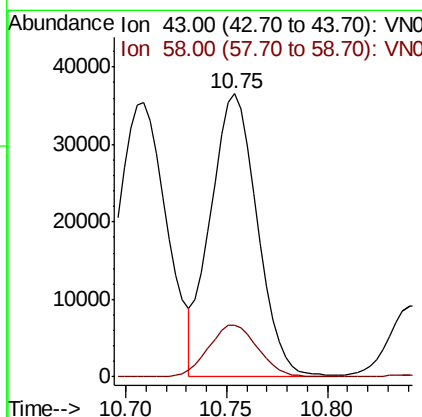
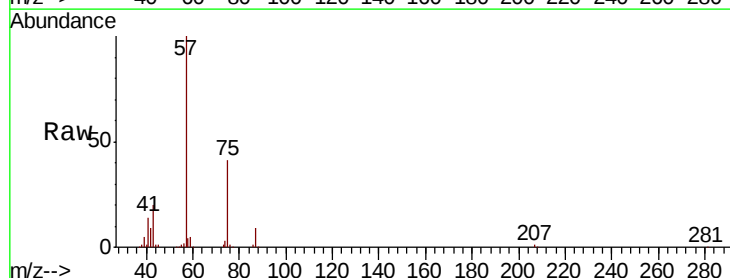
Instrument :
 MSVOA_N
 ClientSampled :
 TP-10-SA

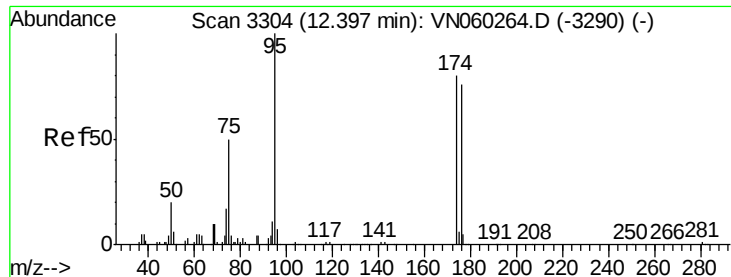
Tot Ion: 76 Resp: 3970
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 25.027 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060524.D
 Acq: 16 Mar 2020 15:37

Tgt Ion: 43 Resp: 59068
 Ion Ratio Lower Upper
 43 100
 58 19.2 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 51.959 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampled :

TP-10-SA

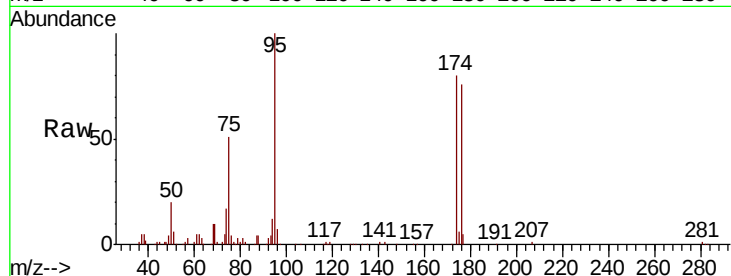
Tot Ion: 95 Resp: 166054

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.2

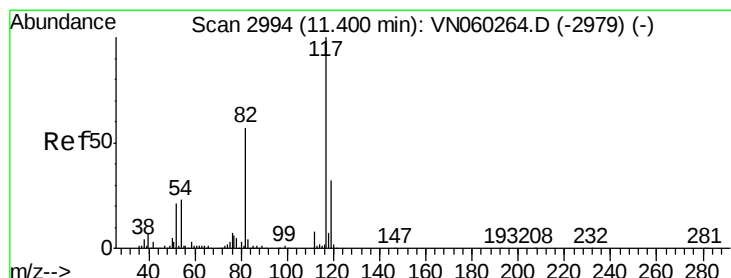
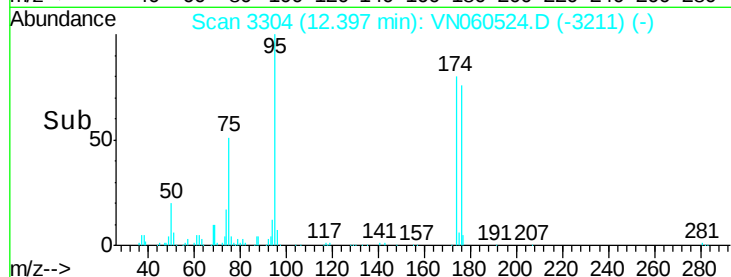
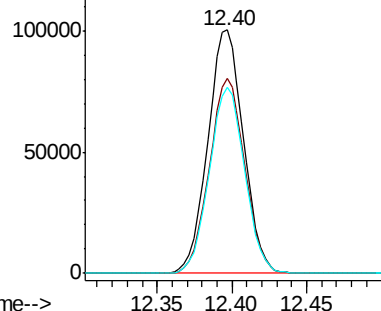
176 76.1 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060524.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060524.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060524.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

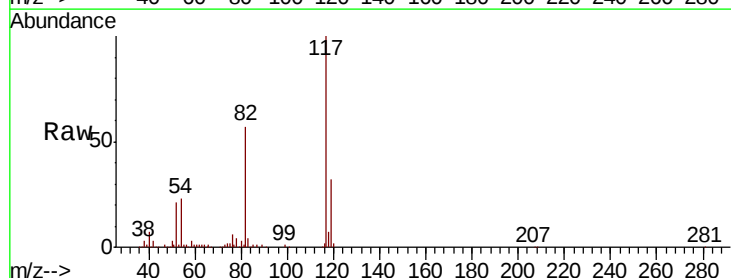
Tgt Ion: 117 Resp: 338262

Ion Ratio Lower Upper

117 100

82 57.2 45.8 68.6

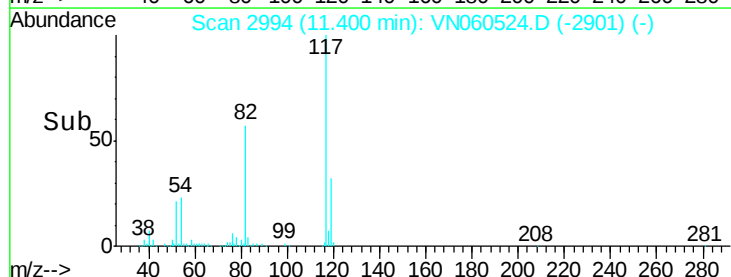
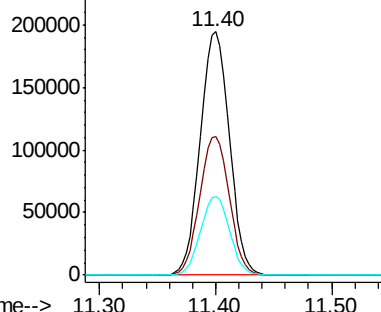
119 32.5 25.8 38.8

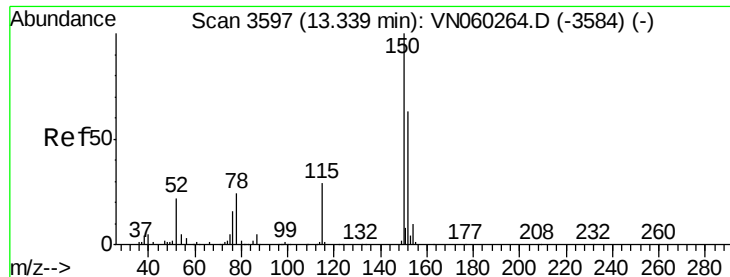


Abundance Ion 116.90 (116.60 to 117.60): VN060524.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060524.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060524.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampleId :

TP-10-SA

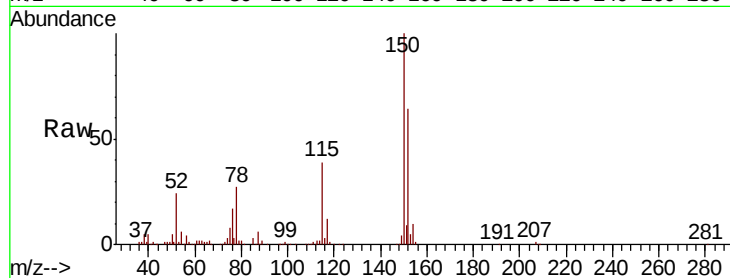
Tot Ion:152 Resp: 154866

Ion Ratio Lower Upper

152 100

115 59.9 30.0 90.0

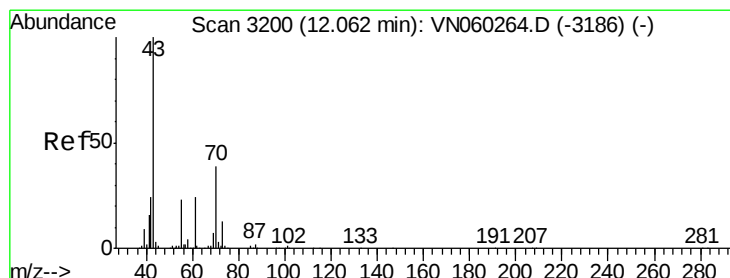
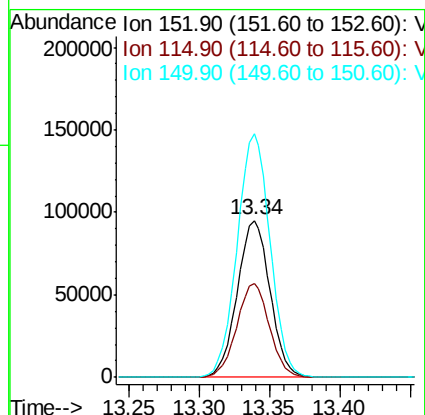
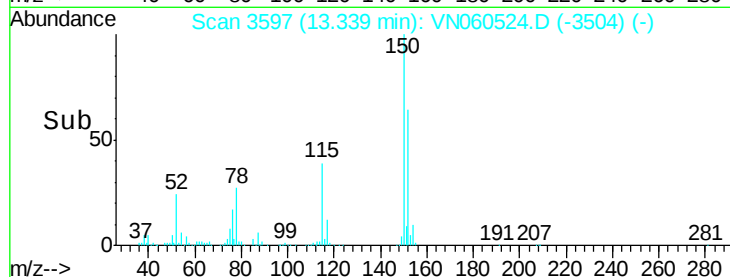
150 156.6 0.0 349.6



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-aryl acetate

Concen: 0.728 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Tgt Ion: 43 Resp: 3652

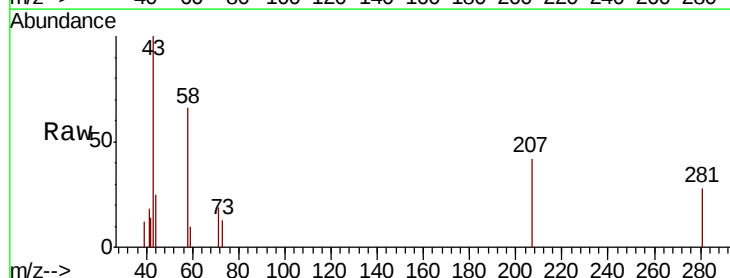
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

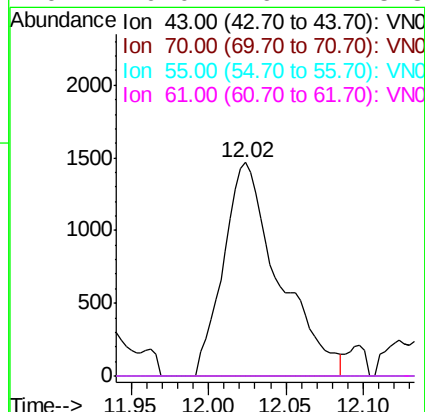
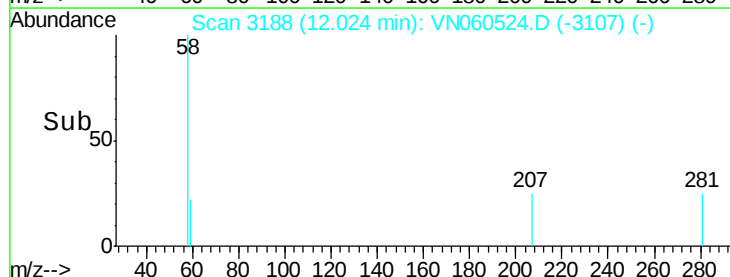


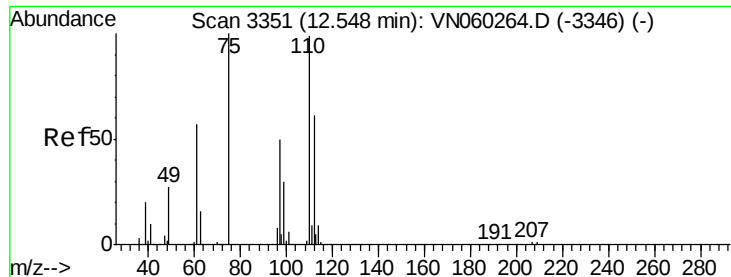
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.778 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Instrument :

MSVOA_N

ClientSampled :

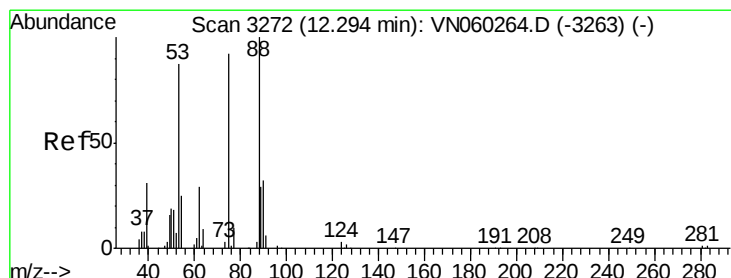
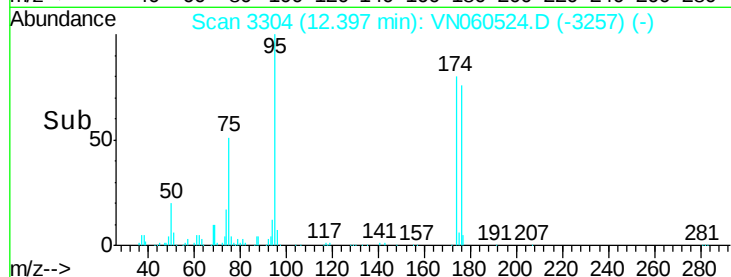
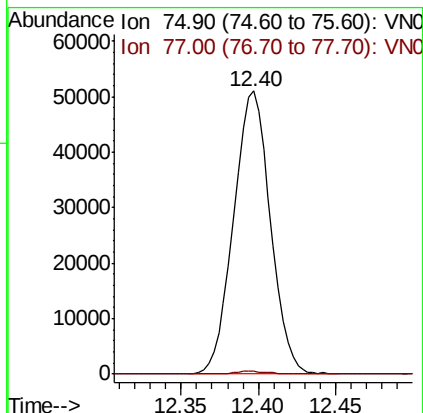
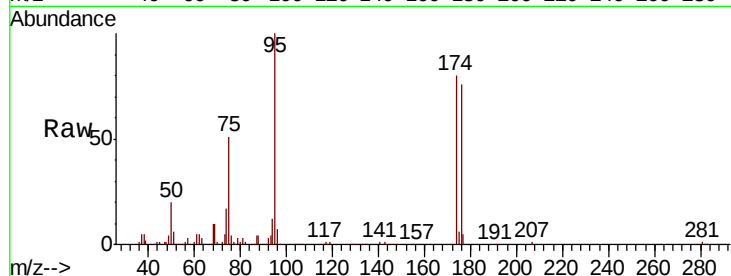
TP-10-SA

Tot Ion: 75 Resp: 84189

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.398 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

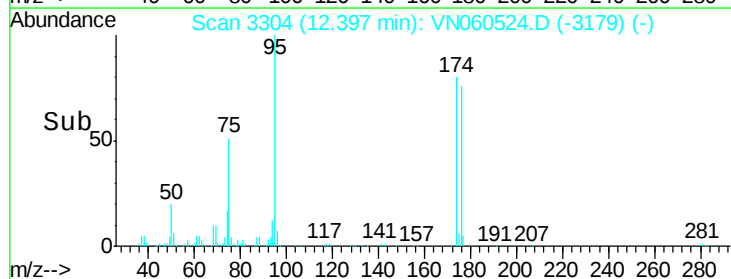
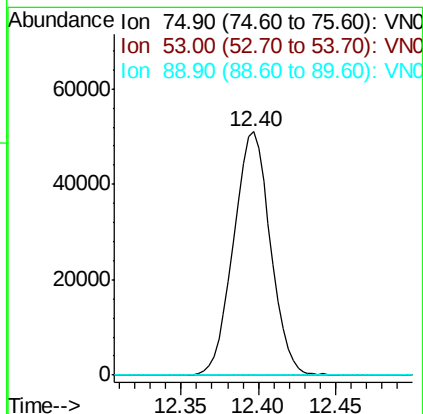
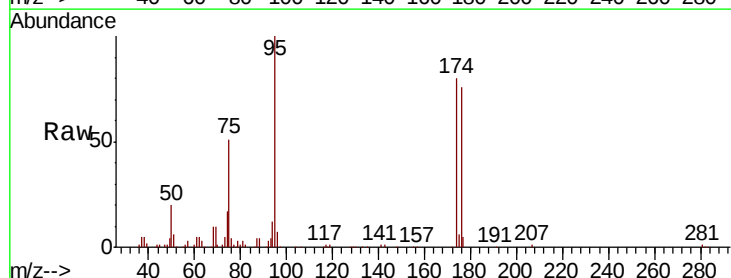
Tgt Ion: 75 Resp: 84189

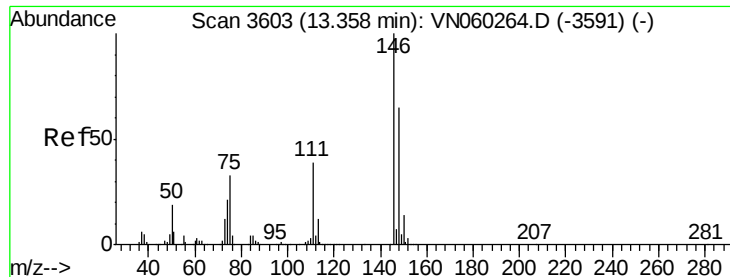
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.28 min Scan# 3578

Delta R.T. -0.08 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

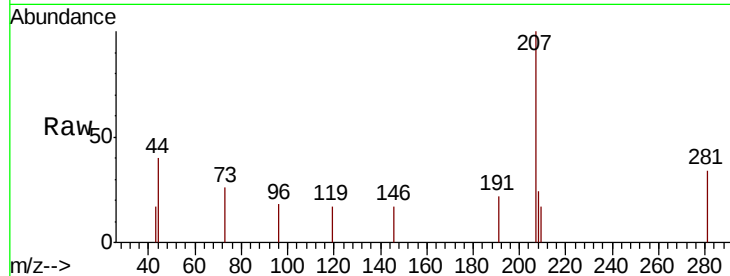
Instrument :

MSVOA_N

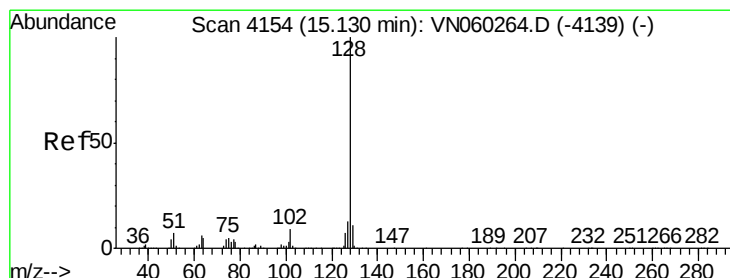
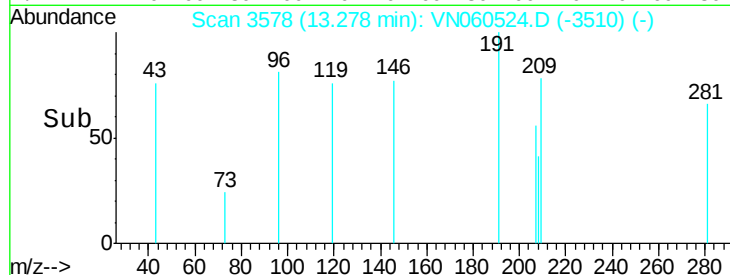
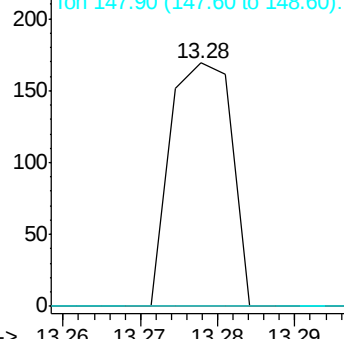
ClientSampleId :

TP-10-SA

Tot Ion:146	Resp:	93
Ion Ratio	Lower	Upper
146	100	
111	0.0	19.8 59.4#
148	0.0	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

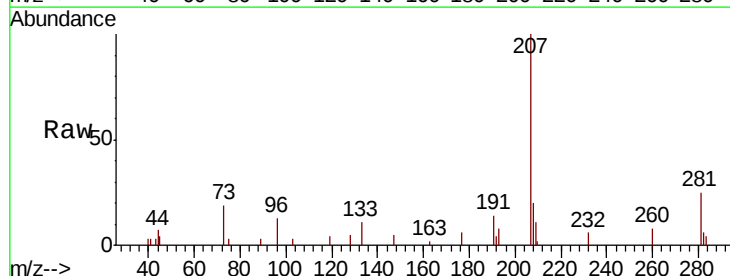
RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060524.D

Acq: 16 Mar 2020 15:37

Tgt Ion:128	Resp:	462
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

