

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057881.D
 Acq On : 10 Sep 2019 22:11
 Operator : JC/SP
 Sample : K4623-38
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(0)

Quant Time: Sep 11 03:58:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	292612	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	495630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	459457	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236507	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	324951	54.83	ug/l	0.00
Spiked Amount			Recovery	=	109.66%	
35) Dibromofluoromethane	7.58	113	219591	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	10.09	98	919352	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
62) 4-Bromofluorobenzene	12.40	95	294167	43.46	ug/l	0.00
Spiked Amount			Recovery	=	86.92%	

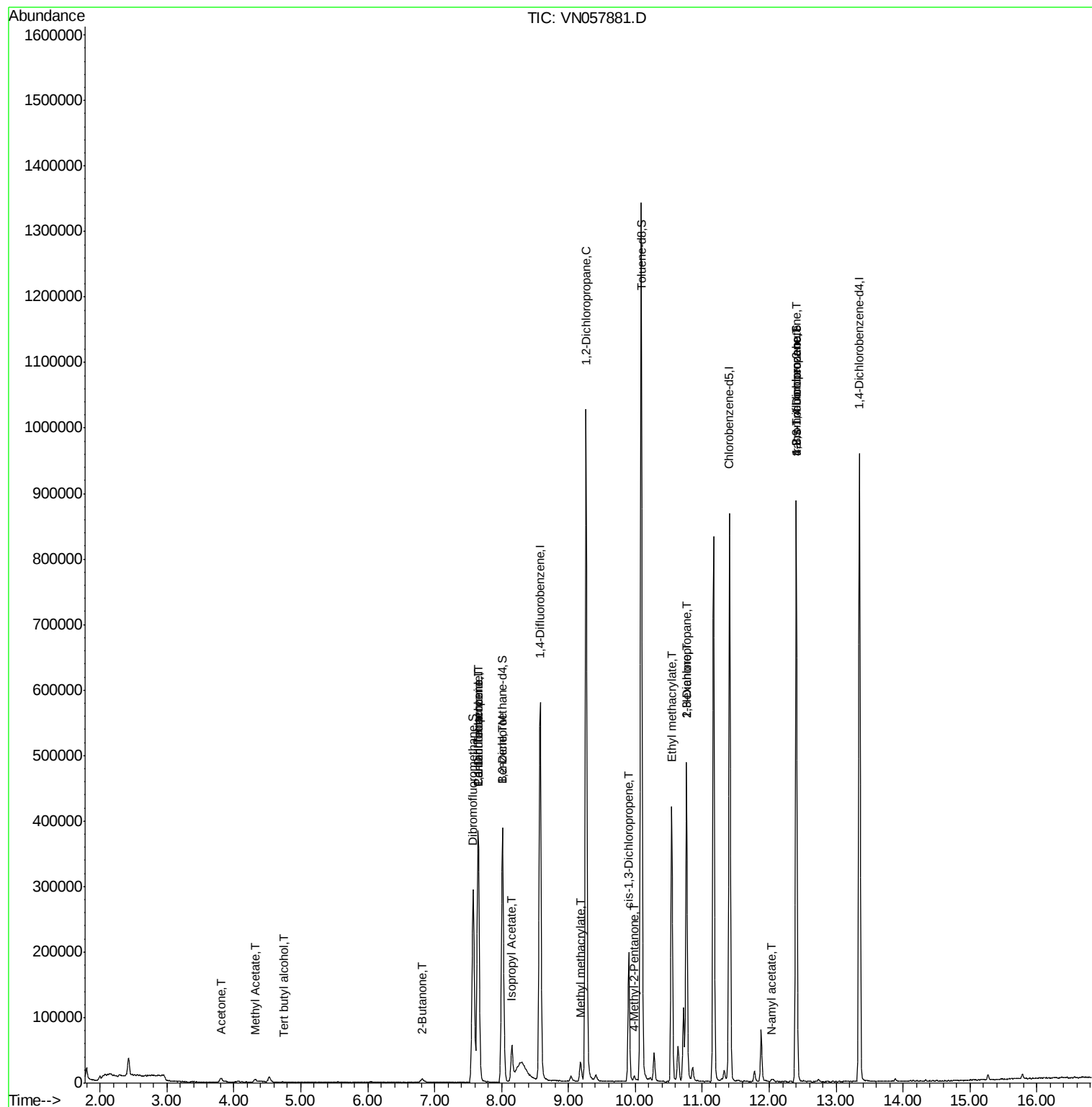
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	62	Below Cal	#	2
11) Tert butyl alcohol	4.75	59	171	0.238	ug/l #	72
16) Acetone	3.80	43	9877	5.084	ug/l	90
18) Methyl Acetate	4.33	43	8191	1.581	ug/l	94
20) Methylene Chloride	4.52	84	3859	Below Cal	#	94
25) 2-Butanone	6.82	43	1024	0.364	ug/l #	49
31) Cyclohexane	7.65	56	8464	Below Cal	#	29
36) 1,1-Dichloropropene	7.65	75	27742	4.826	ug/l #	51
38) Carbon Tetrachloride	7.65	117	32305	6.156	ug/l #	15
40) Benzene	8.02	78	3739	0.216	ug/l	94
43) Isopropyl Acetate	8.16	43	68845	6.893	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1176	0.234	ug/l #	44
48) Methyl methacrylate	9.18	41	4329	0.855	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5823	0.985	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	33585	4.754	ug/l #	69
56) Ethyl methacrylate	10.54	69	1727	0.248	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4676	0.588	ug/l #	43
59) 2-Hexanone	10.76	43	76672	17.308	ug/l #	55
74) N-amyl acetate	12.04	43	3148	0.394	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	161413	30.170	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161413	106.167	ug/l #	6
95) Naphthalene	15.13	128	528	Below Cal	#	69

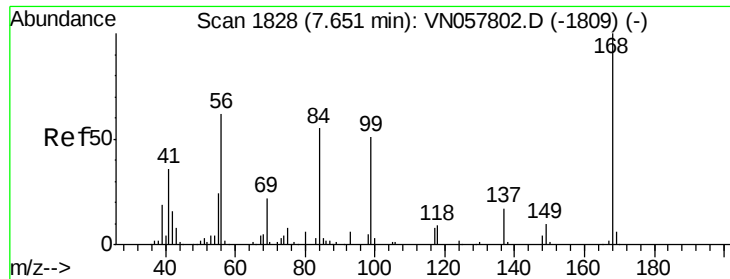
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

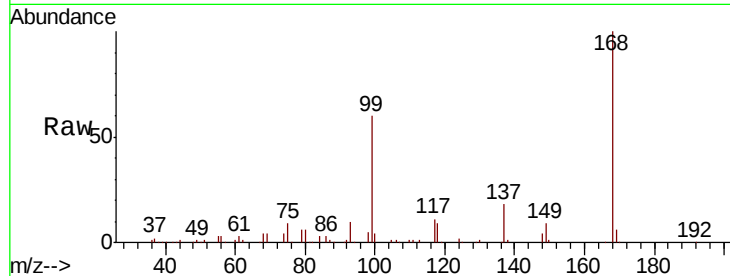
PAR-11-E1-(0)

Tgt Ion:168 Resp: 292612

Ion Ratio Lower Upper

168 100

99 60.4 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

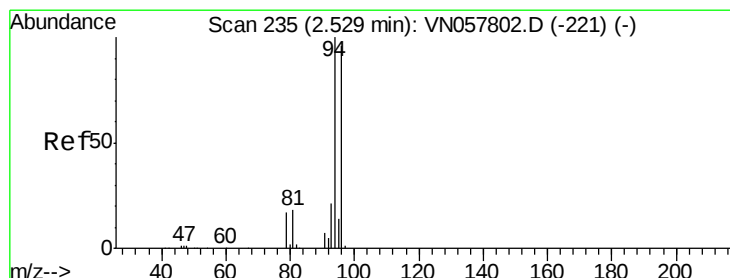
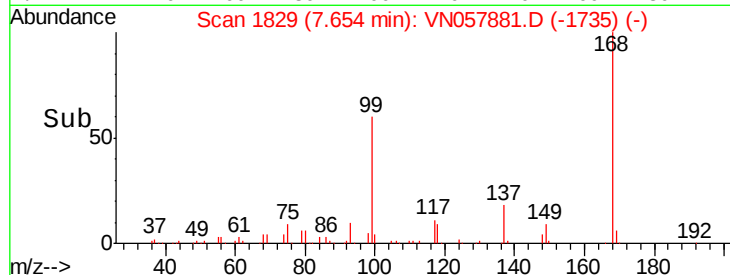
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057881.D

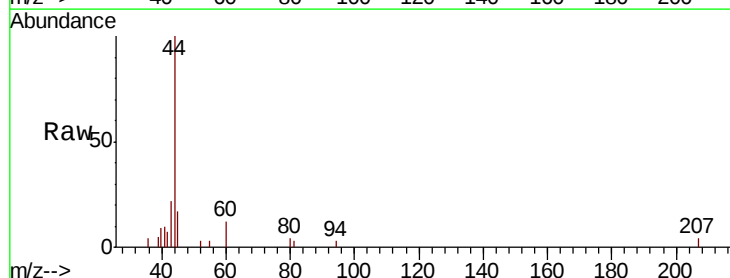
Acq: 10 Sep 2019 22:11

Tgt Ion: 94 Resp: 62

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

200

150

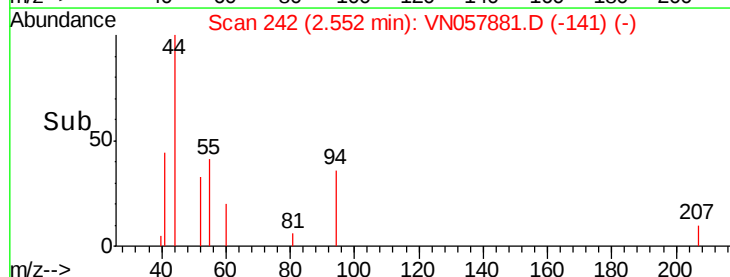
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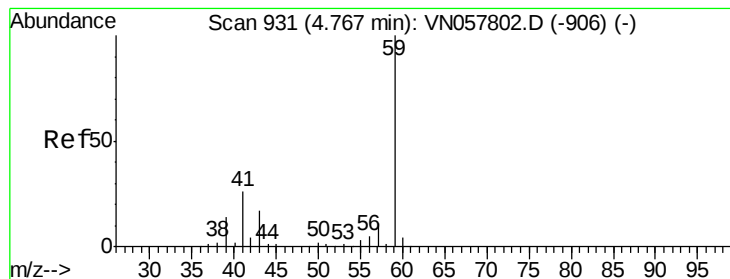
50

0

2.54 2.54 2.55 2.56 2.56

Time-->



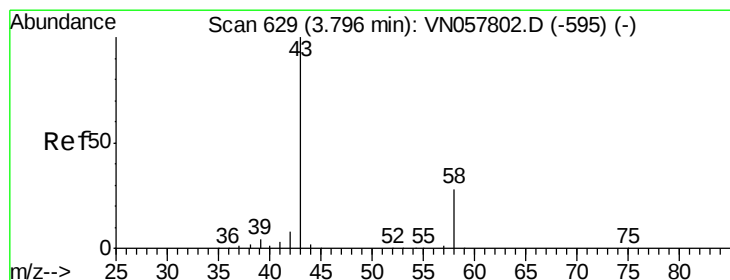
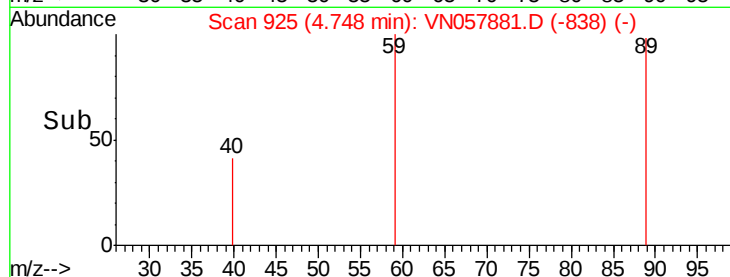
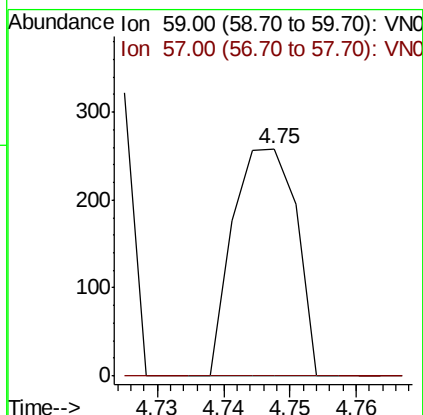
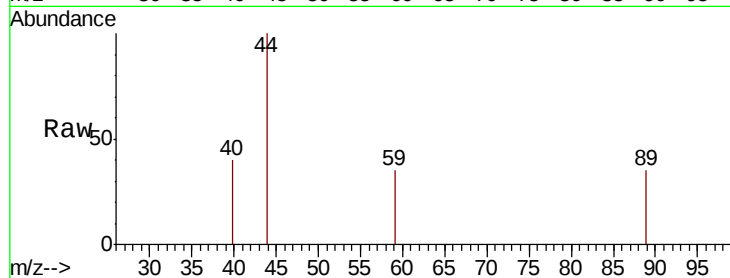


#11

Tert butyl alcohol
 Concen: 0.238 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.02 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(0)

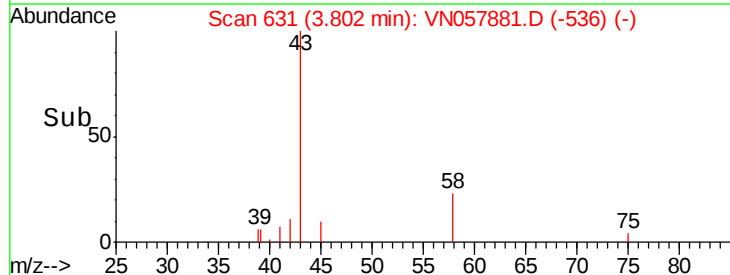
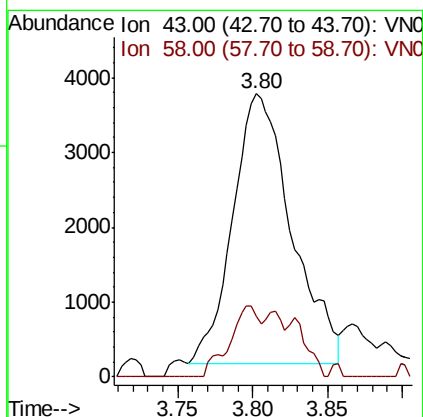
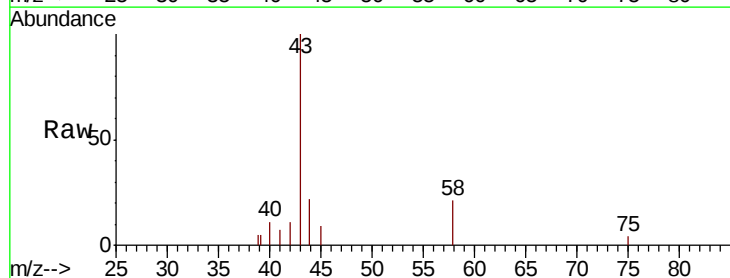
Tgt Ion: 59 Resp: 171
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

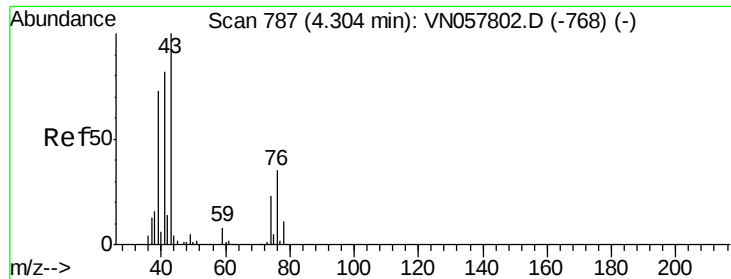


#16

Acetone
 Concen: 5.084 ug/l
 RT: 3.80 min Scan# 631
 Delta R.T. 0.01 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

Tgt Ion: 43 Resp: 9877
 Ion Ratio Lower Upper
 43 100
 58 22.3 22.2 33.2

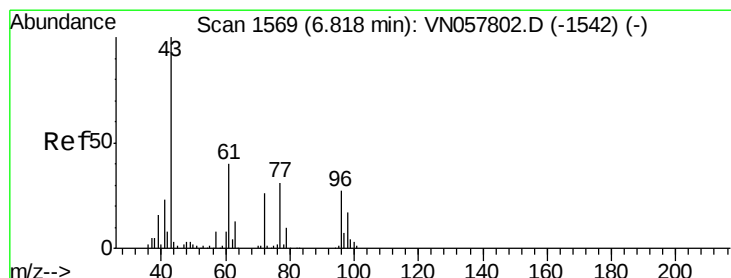
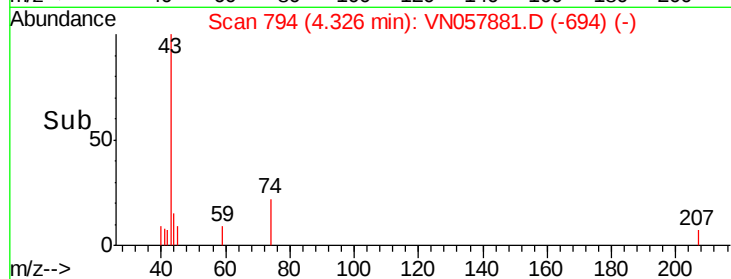
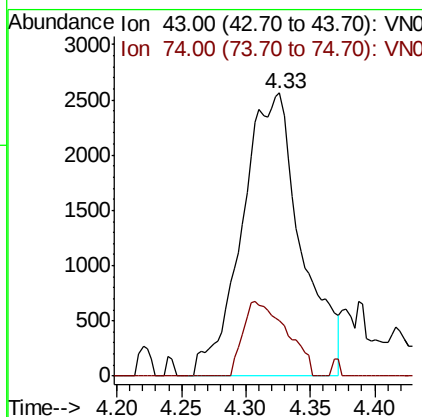
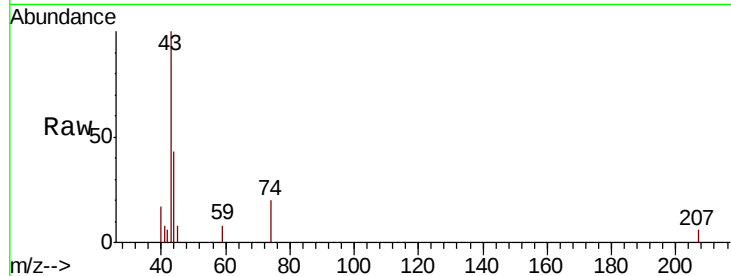




#18
Methyl Acetate
Concen: 1.581 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN057881.D
Acq: 10 Sep 2019 22:11

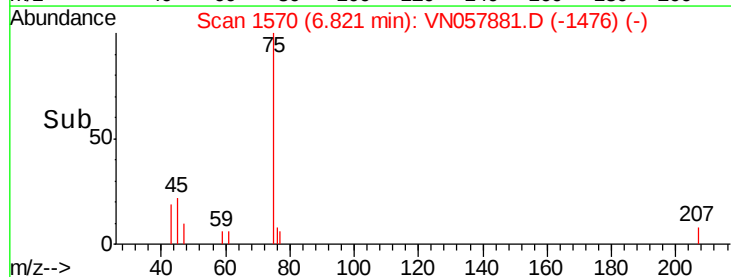
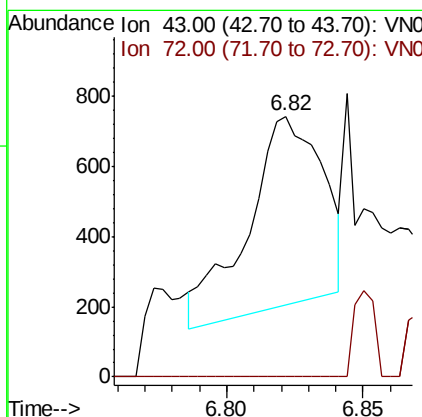
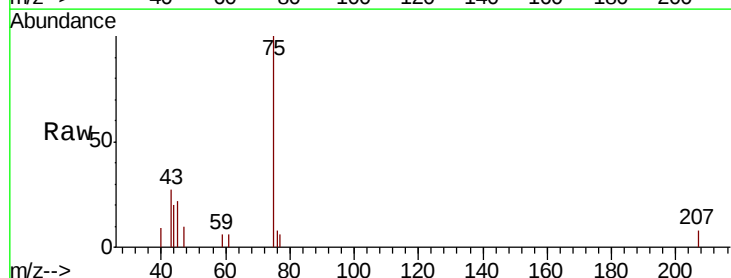
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(0)

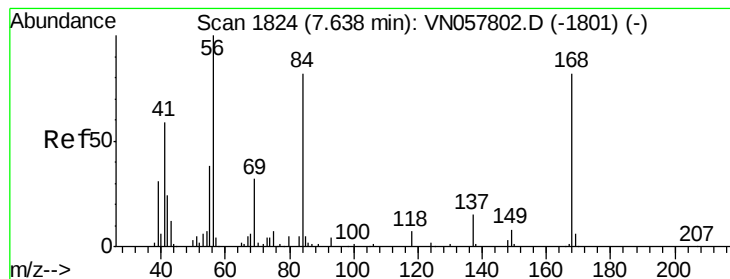
Tgt Ion: 43 Resp: 8191
Ion Ratio Lower Upper
43 100
74 19.5 17.9 26.9



#25
2-Butanone
Concen: 0.364 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VN057881.D
Acq: 10 Sep 2019 22:11

Tgt Ion: 43 Resp: 1024
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(0)

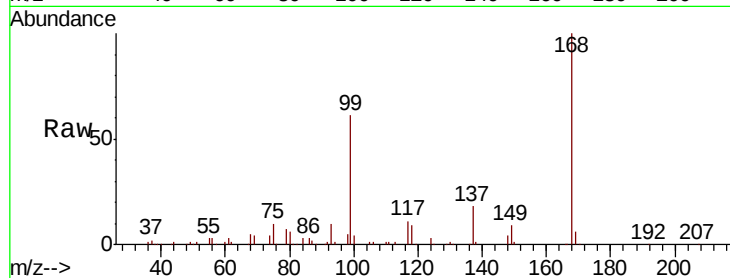
Tgt Ion: 56 Resp: 8464

Ion Ratio Lower Upper

56 100

69 138.0 25.9 38.9#

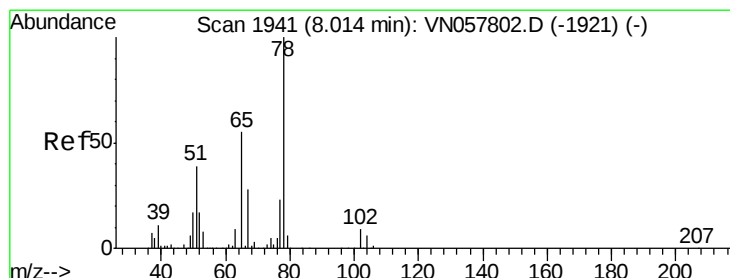
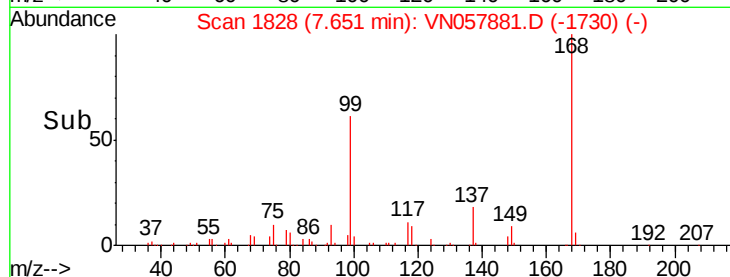
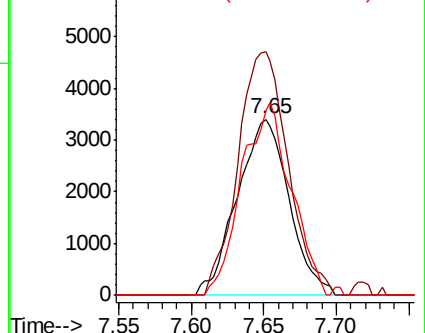
84 104.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.829 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057881.D

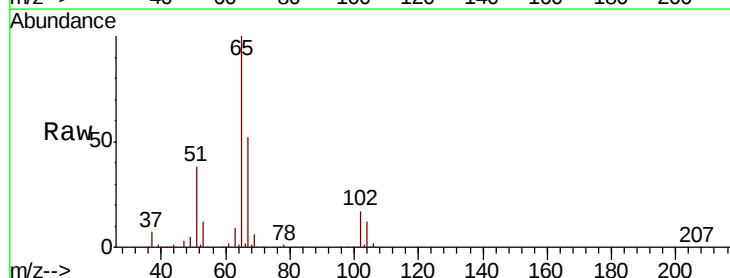
Acq: 10 Sep 2019 22:11

Tgt Ion: 65 Resp: 324951

Ion Ratio Lower Upper

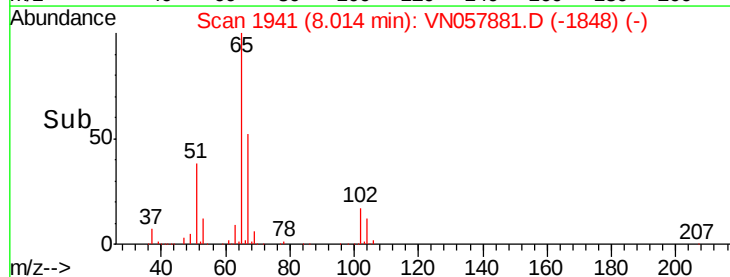
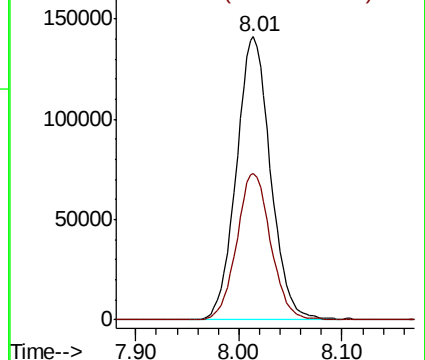
65 100

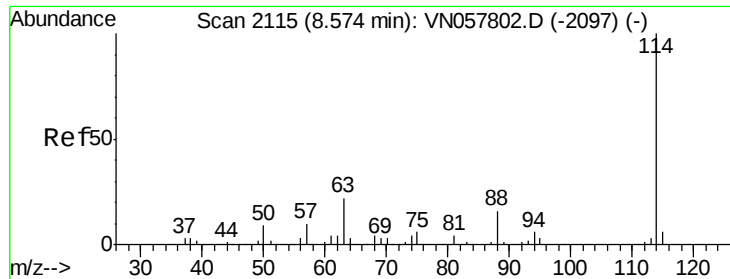
67 51.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

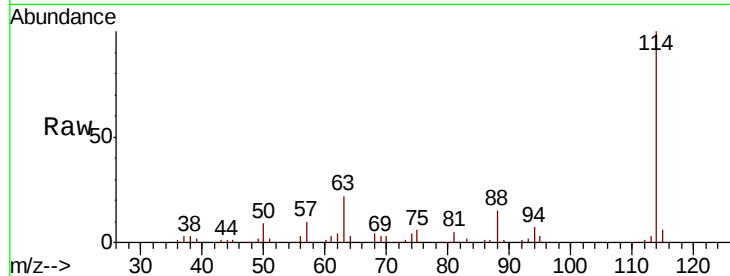




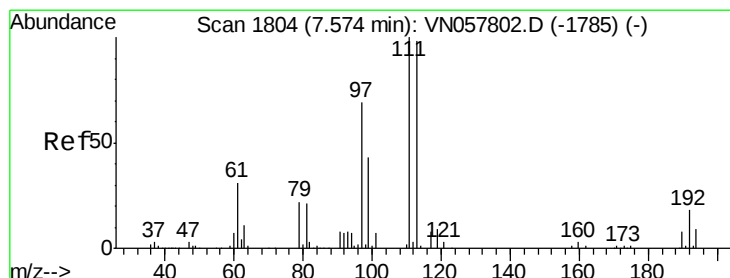
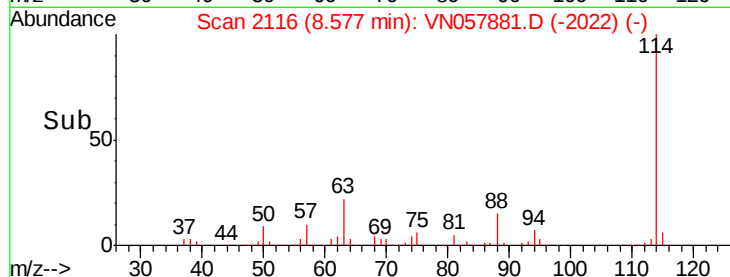
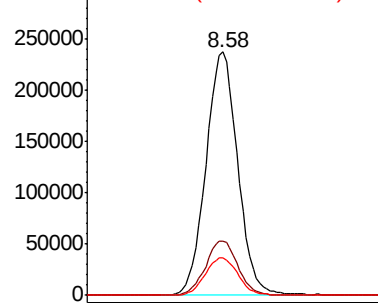
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(0)

Tgt Ion:114 Resp: 495630
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.0
 88 15.5 0.0 31.4

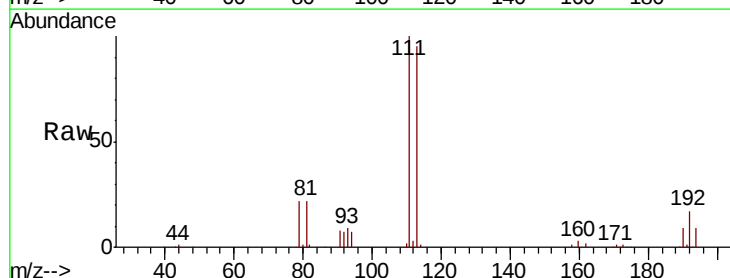


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

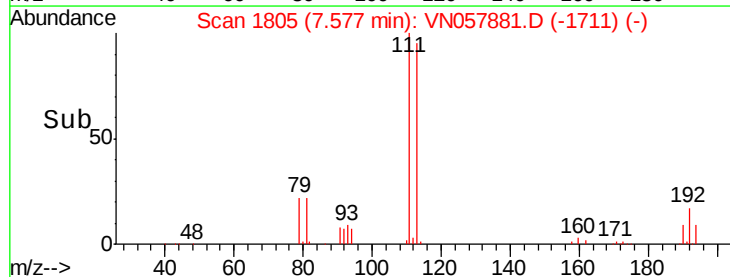
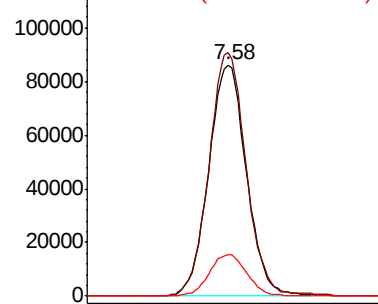


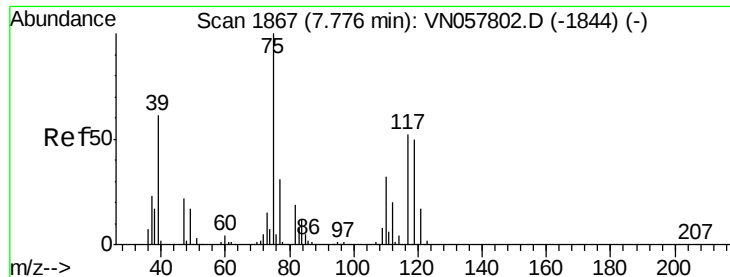
#35
 Dibromofluoromethane
 Concen: 48.004 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

Tgt Ion:113 Resp: 219591
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.3 121.9
 192 17.9 14.6 22.0



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: 4.826 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(0)

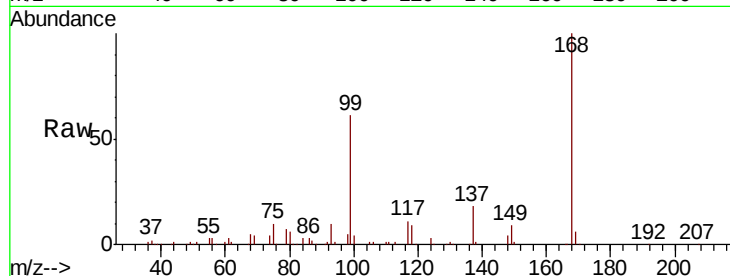
Tgt Ion: 75 Resp: 27742

Ion Ratio Lower Upper

75 100

110 8.8 16.3 48.9#

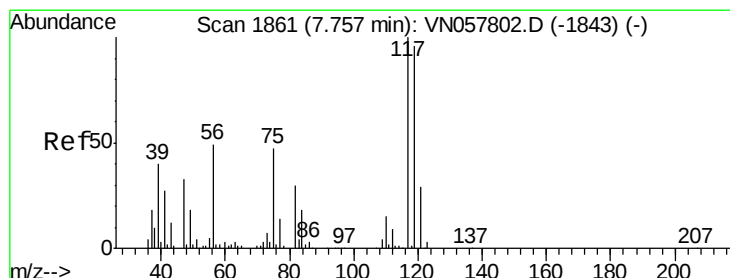
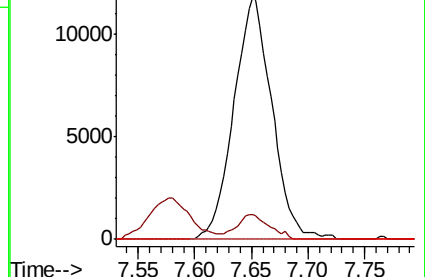
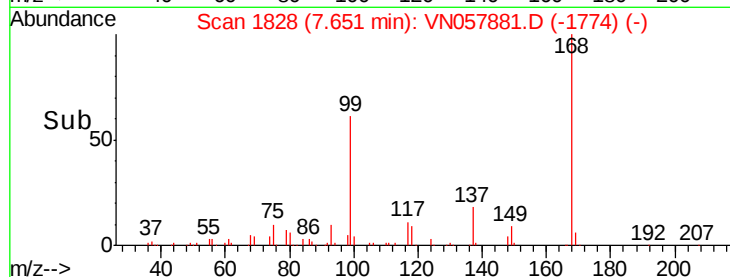
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)



#38

Carbon Tetrachloride

Concen: 6.156 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

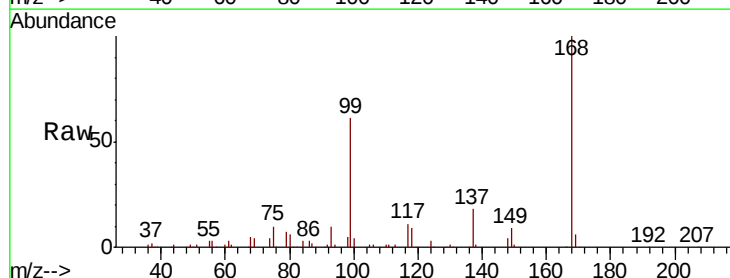
Tgt Ion: 117 Resp: 32305

Ion Ratio Lower Upper

117 100

119 3.8 76.9 115.3#

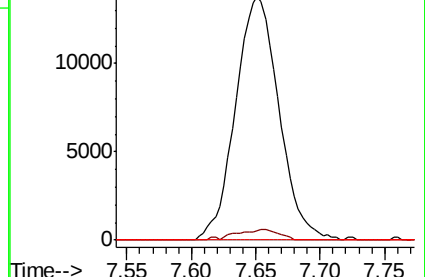
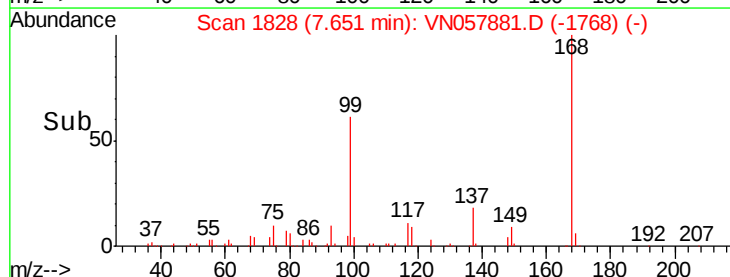
121 0.0 23.4 35.2#

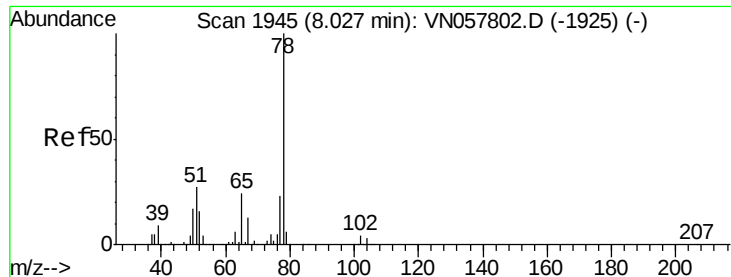


Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)

Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)

Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)

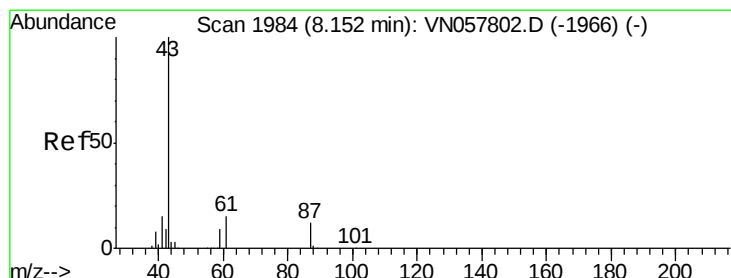
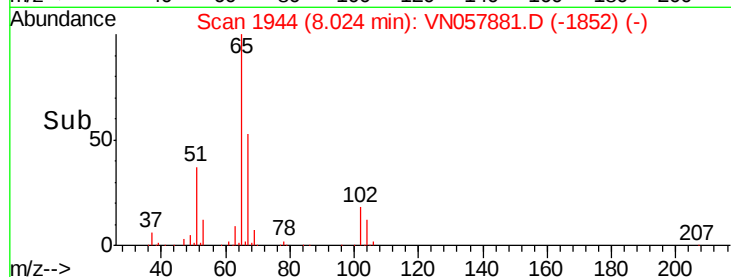
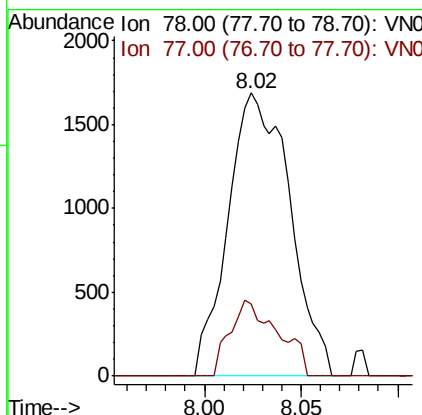
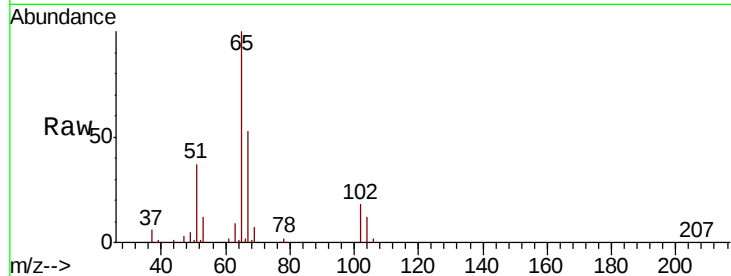




#40
Benzene
Concen: 0.216 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN057881.D
Acq: 10 Sep 2019 22:11

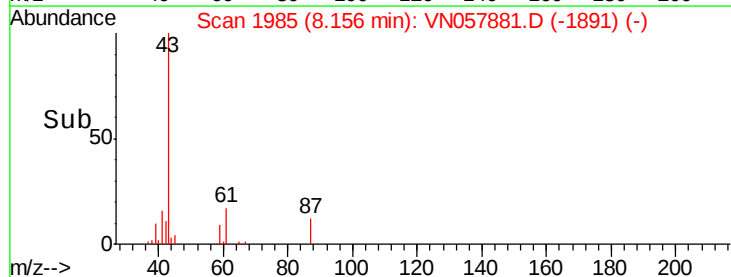
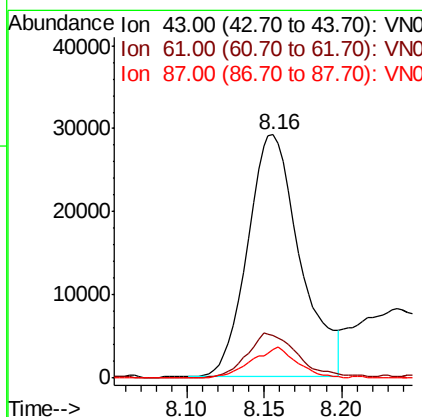
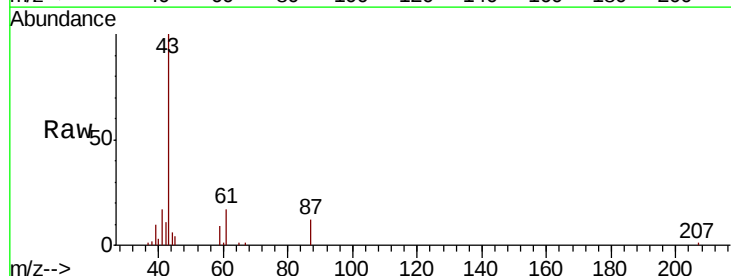
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(0)

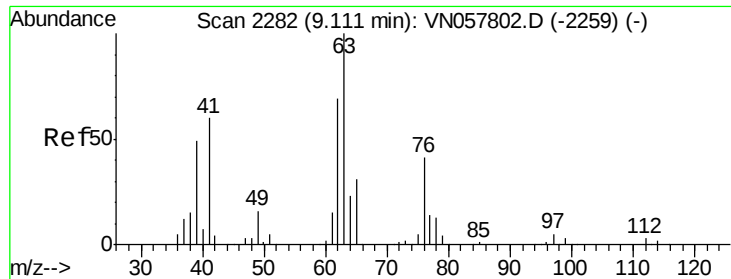
Tgt Ion: 78 Resp: 3739
Ion Ratio Lower Upper
78 100
77 25.7 18.3 27.5



#43
Isopropyl Acetate
Concen: 6.893 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057881.D
Acq: 10 Sep 2019 22:11

Tgt Ion: 43 Resp: 68845
Ion Ratio Lower Upper
43 100
61 18.2 20.1 30.1#
87 11.1 9.5 14.3





#45

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

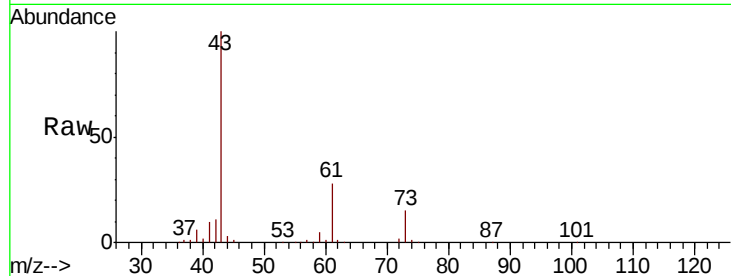
PAR-11-E1-(0)

Tgt Ion: 63 Resp: 1176

Ion Ratio Lower Upper

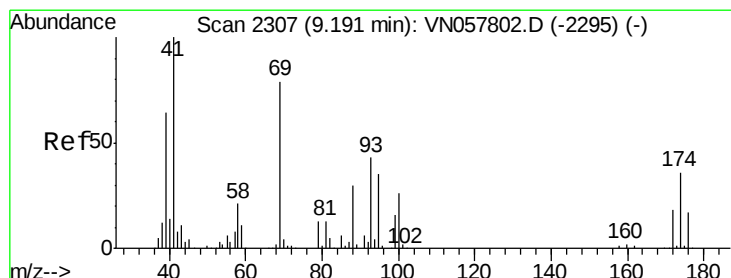
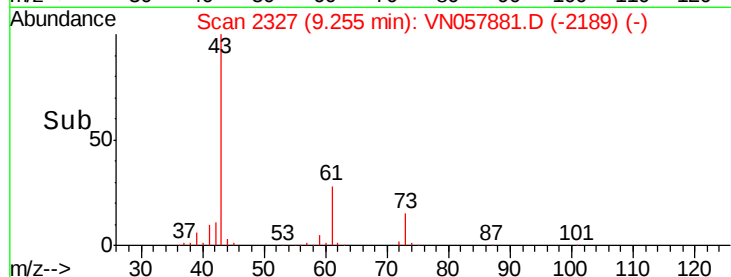
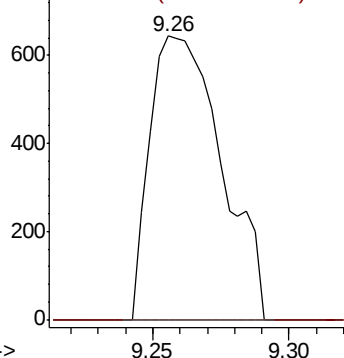
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 0.855 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

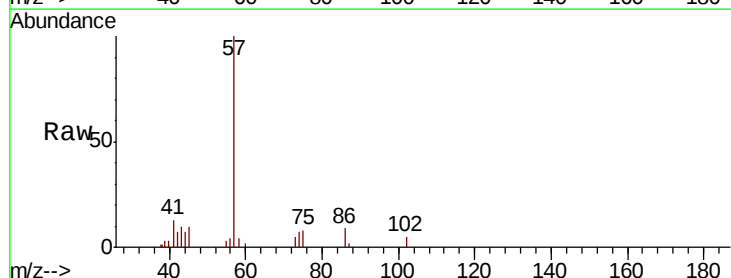
Tgt Ion: 41 Resp: 4329

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

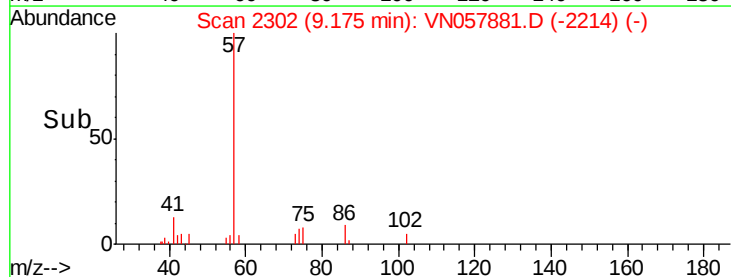
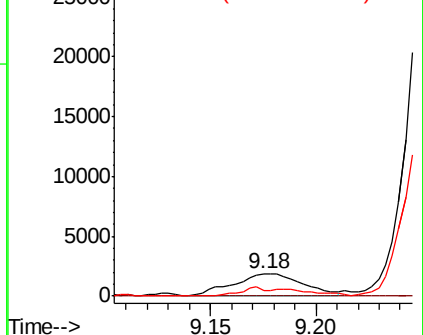
39 0.0 52.7 79.1#

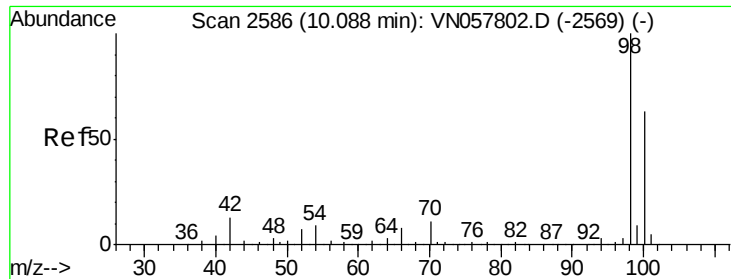


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 51.764 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

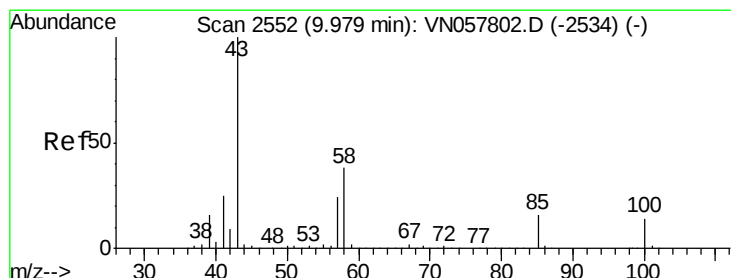
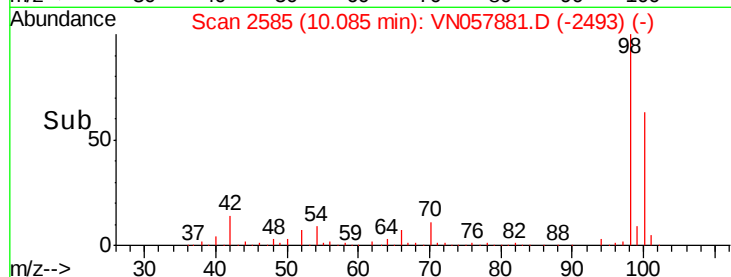
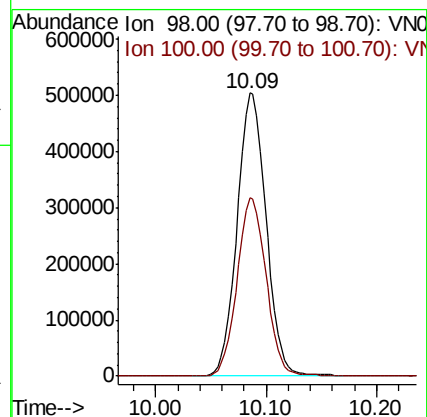
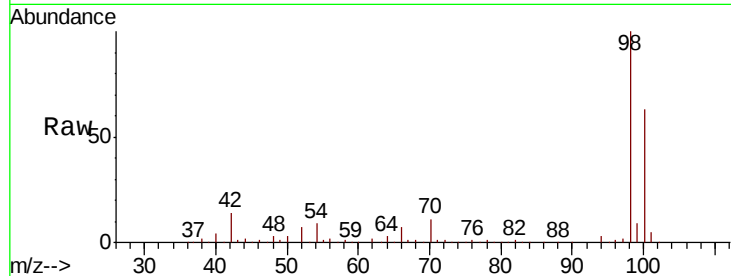
PAR-11-E1-(0)

Tgt Ion: 98 Resp: 919352

Ion Ratio Lower Upper

98 100

100 63.2 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 0.985 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN057881.D

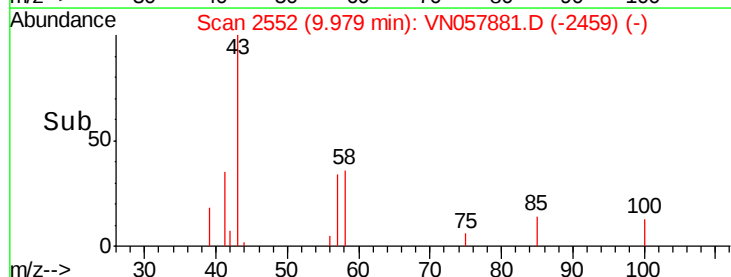
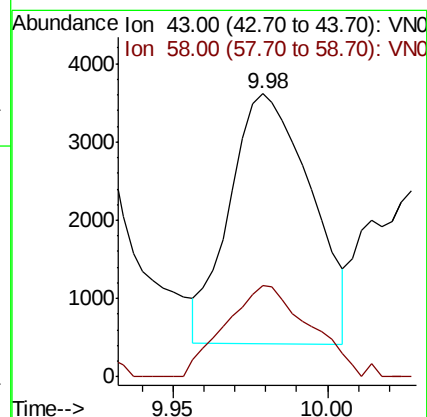
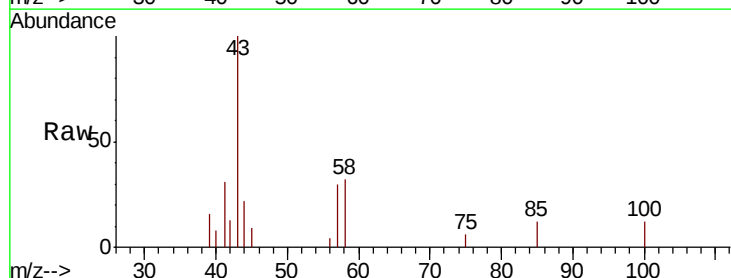
Acq: 10 Sep 2019 22:11

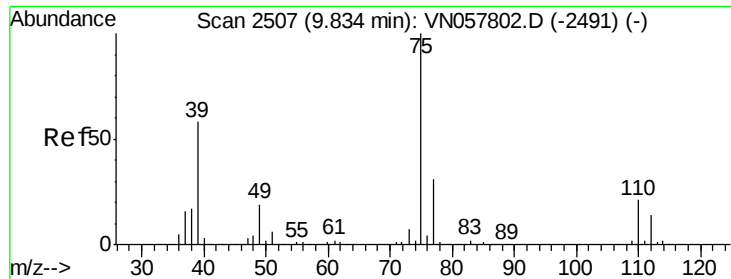
Tgt Ion: 43 Resp: 5823

Ion Ratio Lower Upper

43 100

58 38.5 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.754 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(0)

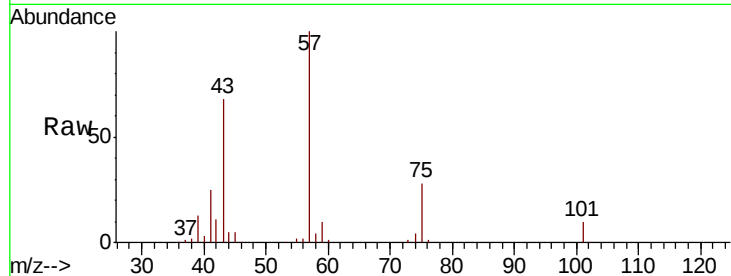
Tgt Ion: 75 Resp: 33585

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 45.0 46.2 69.4#

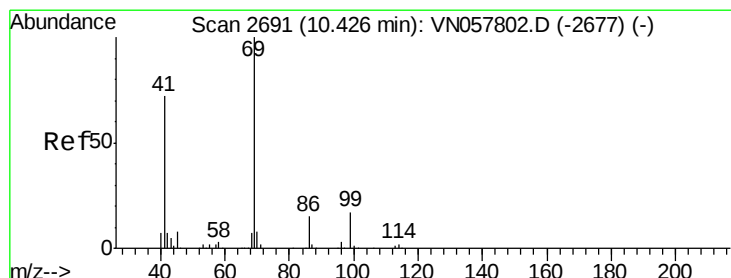
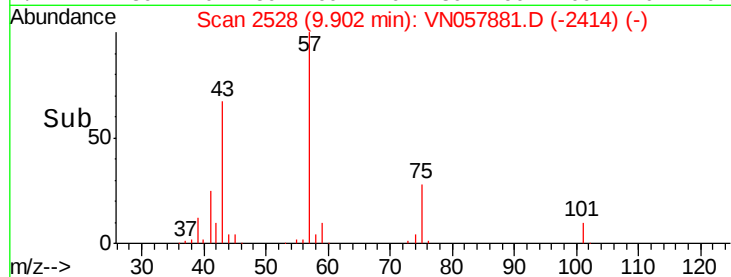
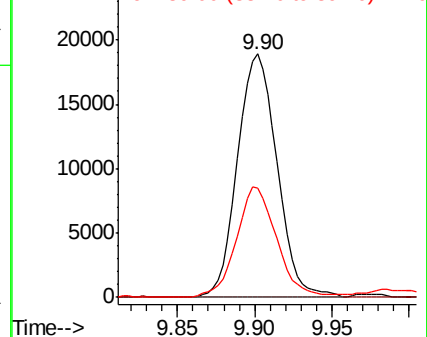


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.248 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

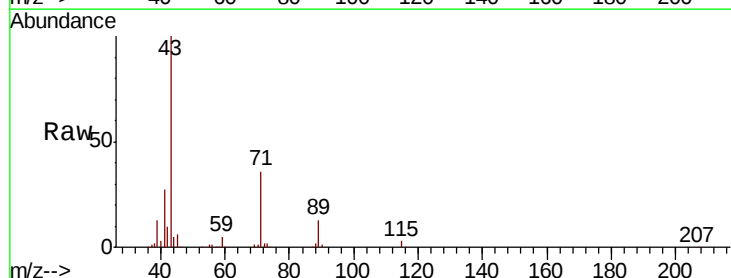
Tgt Ion: 69 Resp: 1727

Ion Ratio Lower Upper

69 100

41 5040.4 56.7 85.1#

39 2387.0 36.3 54.5#

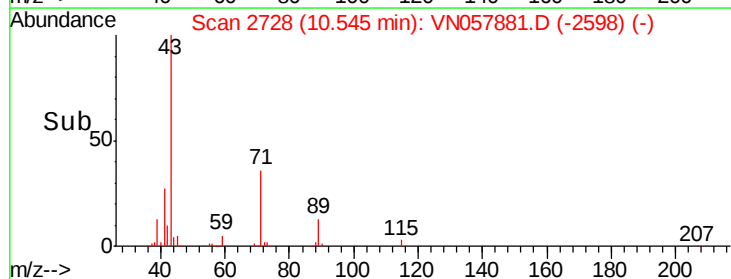
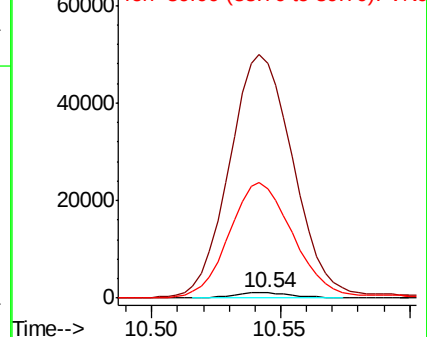


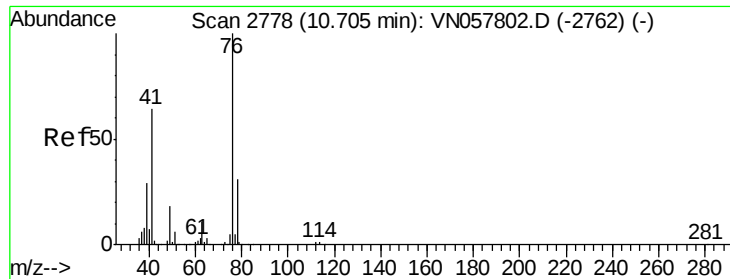
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

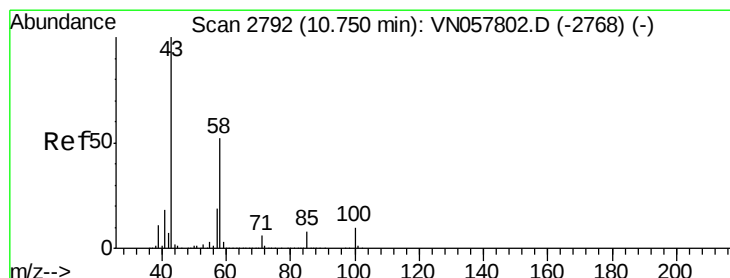
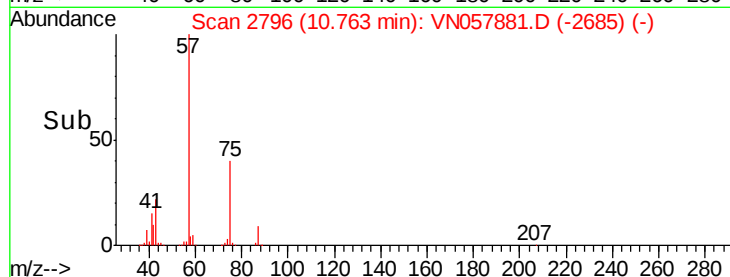
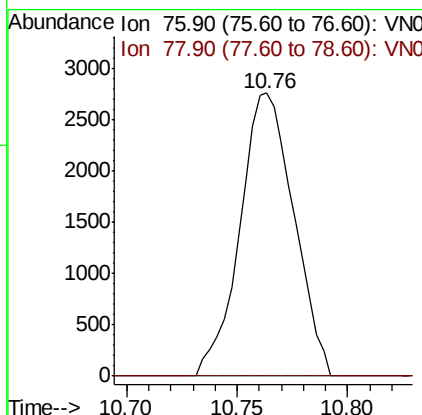
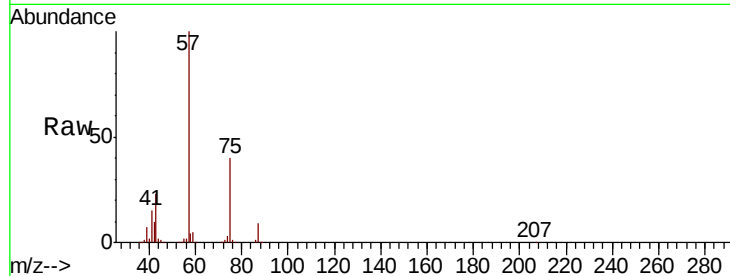




#57
 1,3-Dichloropropane
 Concen: 0.588 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

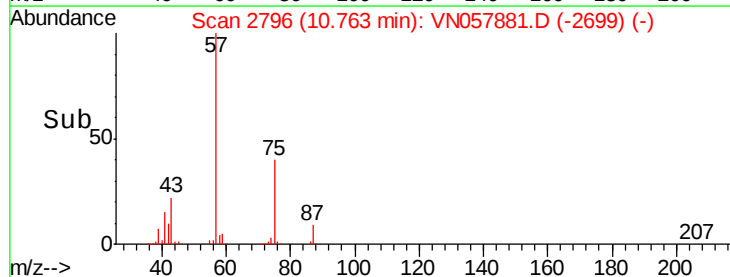
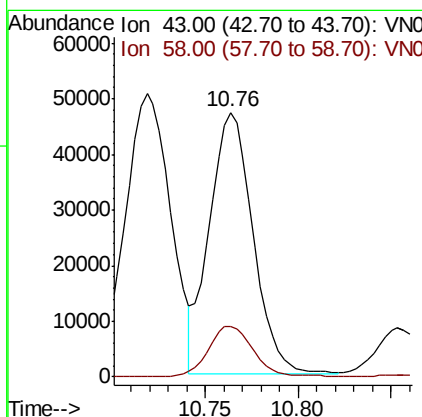
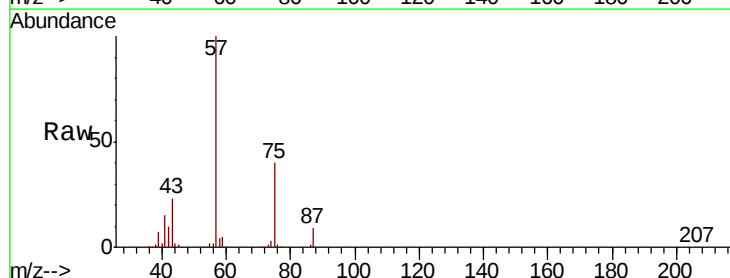
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E1-(0)

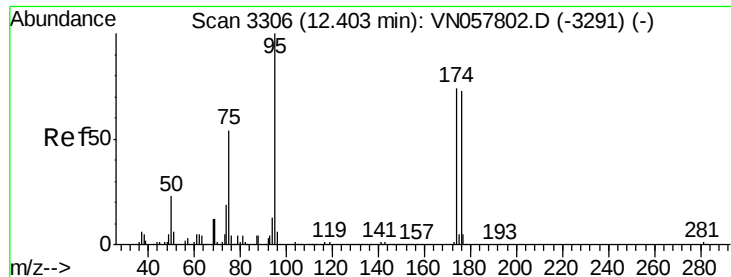
Tgt Ion: 76 Resp: 4676
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 17.308 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057881.D
 Acq: 10 Sep 2019 22:11

Tgt Ion: 43 Resp: 76672
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.462 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(0)

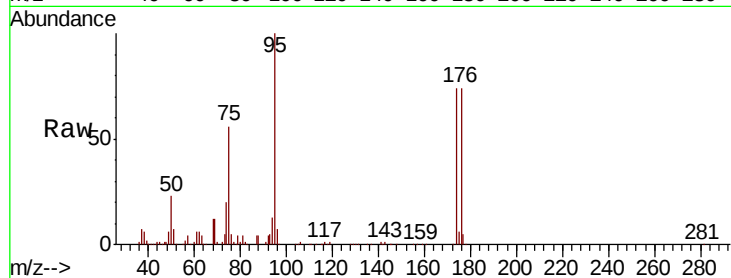
Tgt Ion: 95 Resp: 294167

Ion Ratio Lower Upper

95 100

174 74.7 0.0 150.2

176 71.8 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

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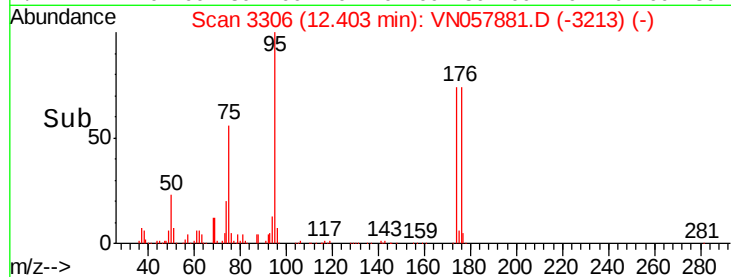
12.40

12.40

12.40

12.40

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

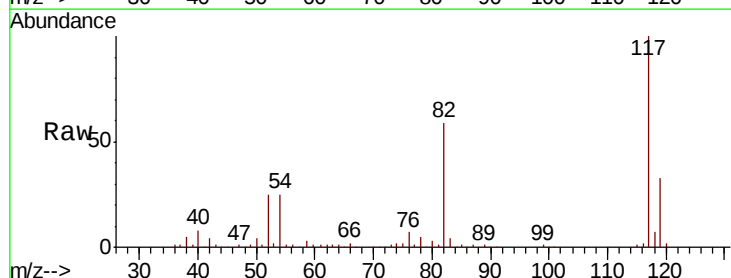
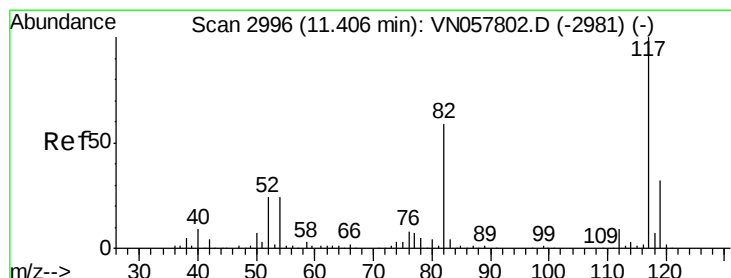
Tgt Ion: 117 Resp: 459457

Ion Ratio Lower Upper

117 100

82 58.8 47.2 70.8

119 32.5 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

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11.41

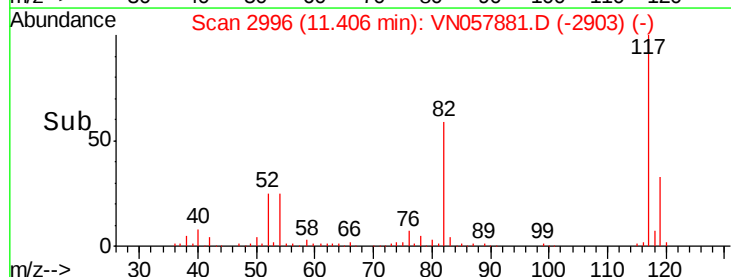
11.41

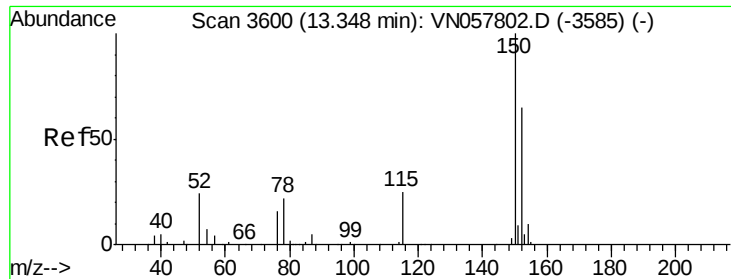
11.41

11.41

11.41

11.41





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E1-(0)

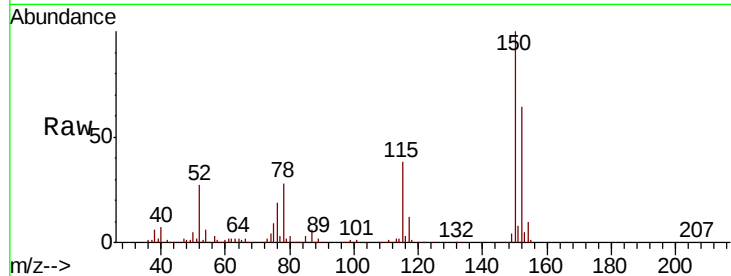
Tgt Ion:152 Resp: 236507

Ion Ratio Lower Upper

152 100

115 60.8 30.3 91.0

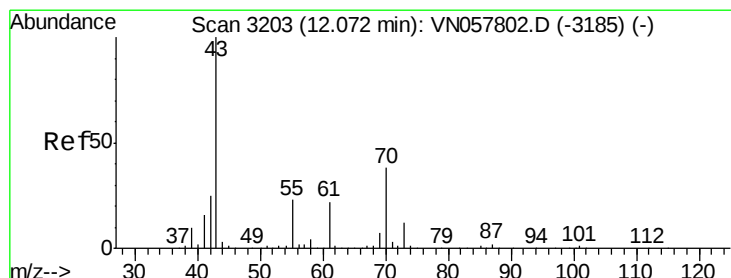
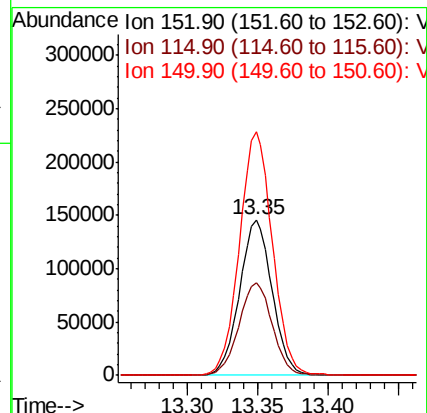
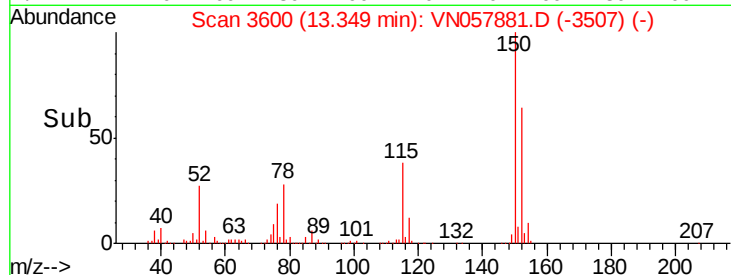
150 157.4 0.0 352.4



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: 0.394 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Tgt Ion: 43 Resp: 3148

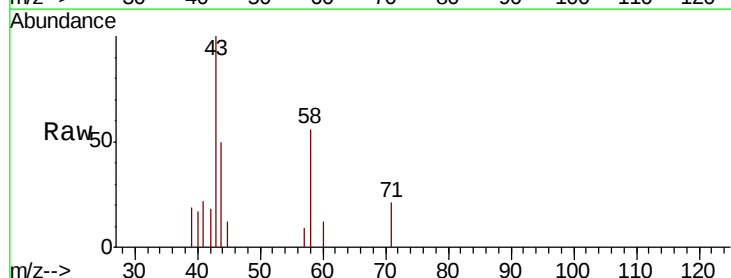
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.0 18.6 27.8#

61 0.0 17.4 26.2#

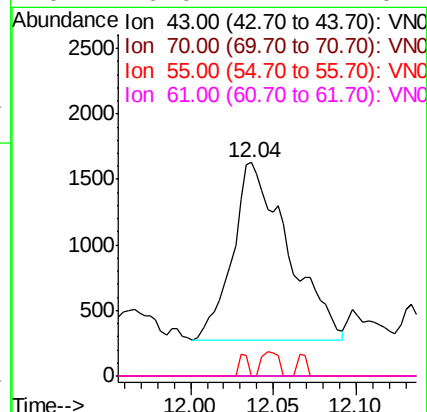
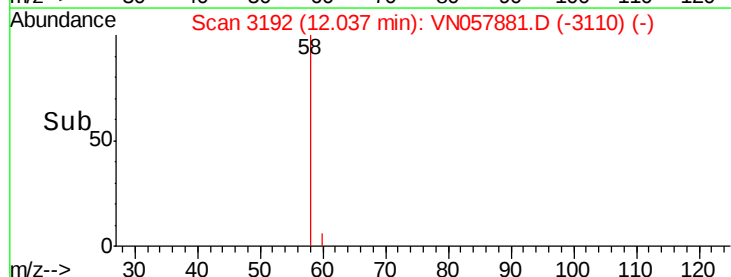


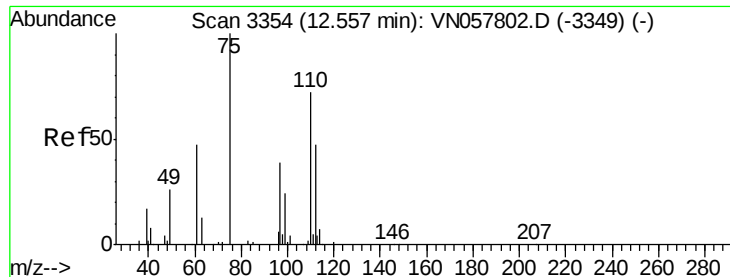
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.170 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

Instrument :

MSVOA_N

ClientSampleId :

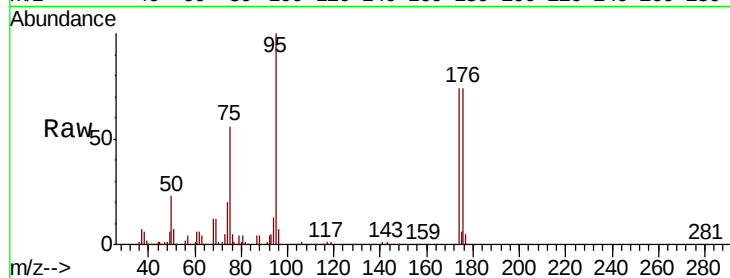
PAR-11-E1-(0)

Tgt Ion: 75 Resp: 161413

Ion Ratio Lower Upper

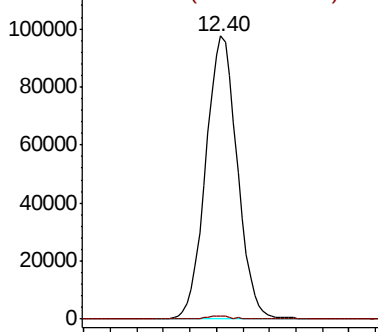
75 100

77 0.8 0.0 0.0#

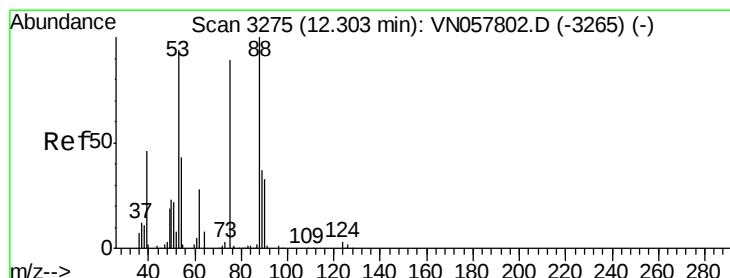
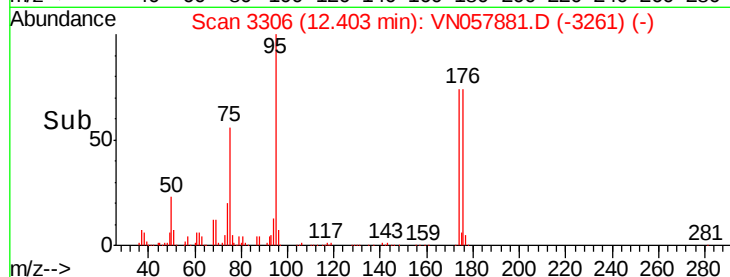


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 106.167 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057881.D

Acq: 10 Sep 2019 22:11

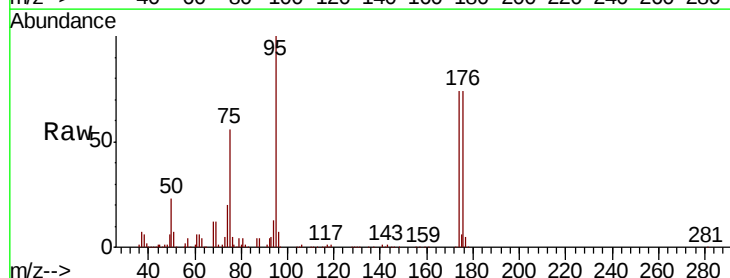
Tgt Ion: 75 Resp: 161413

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

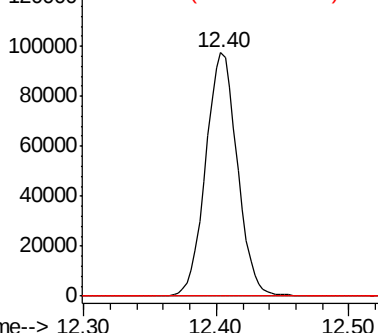
89 0.0 35.3 52.9#



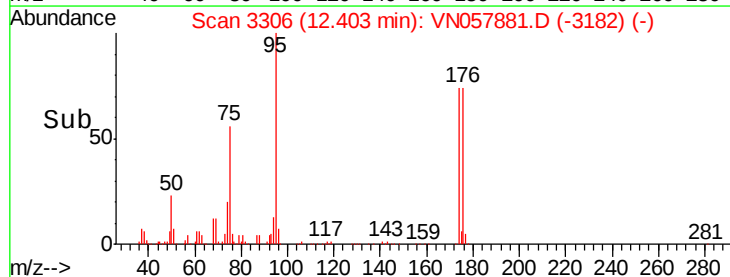
Abundance Ion 74.90 (74.60 to 75.60): VN0

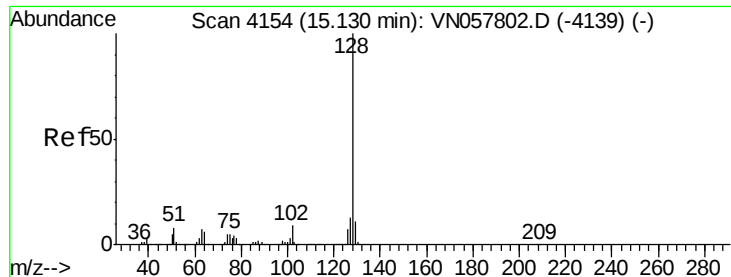
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50





#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057881.D
Acq: 10 Sep 2019 22:11

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E1-(0)

Tgt Ion:128 Resp: 528
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 12.8#

