

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058964.D
 Acq On : 24 Oct 2019 16:18
 Operator : JC/SP
 Sample : K5507-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S81-ER-2019-2

Quant Time: Oct 25 01:25:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	351596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	554920	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	493071	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	175013	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	266441	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
35) Dibromofluoromethane	7.57	113	190191	52.13	ug/l	0.00
Spiked Amount			Recovery	=	104.26%	
50) Toluene-d8	10.09	98	712115	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	223893	43.05	ug/l	0.00
Spiked Amount			Recovery	=	86.10%	

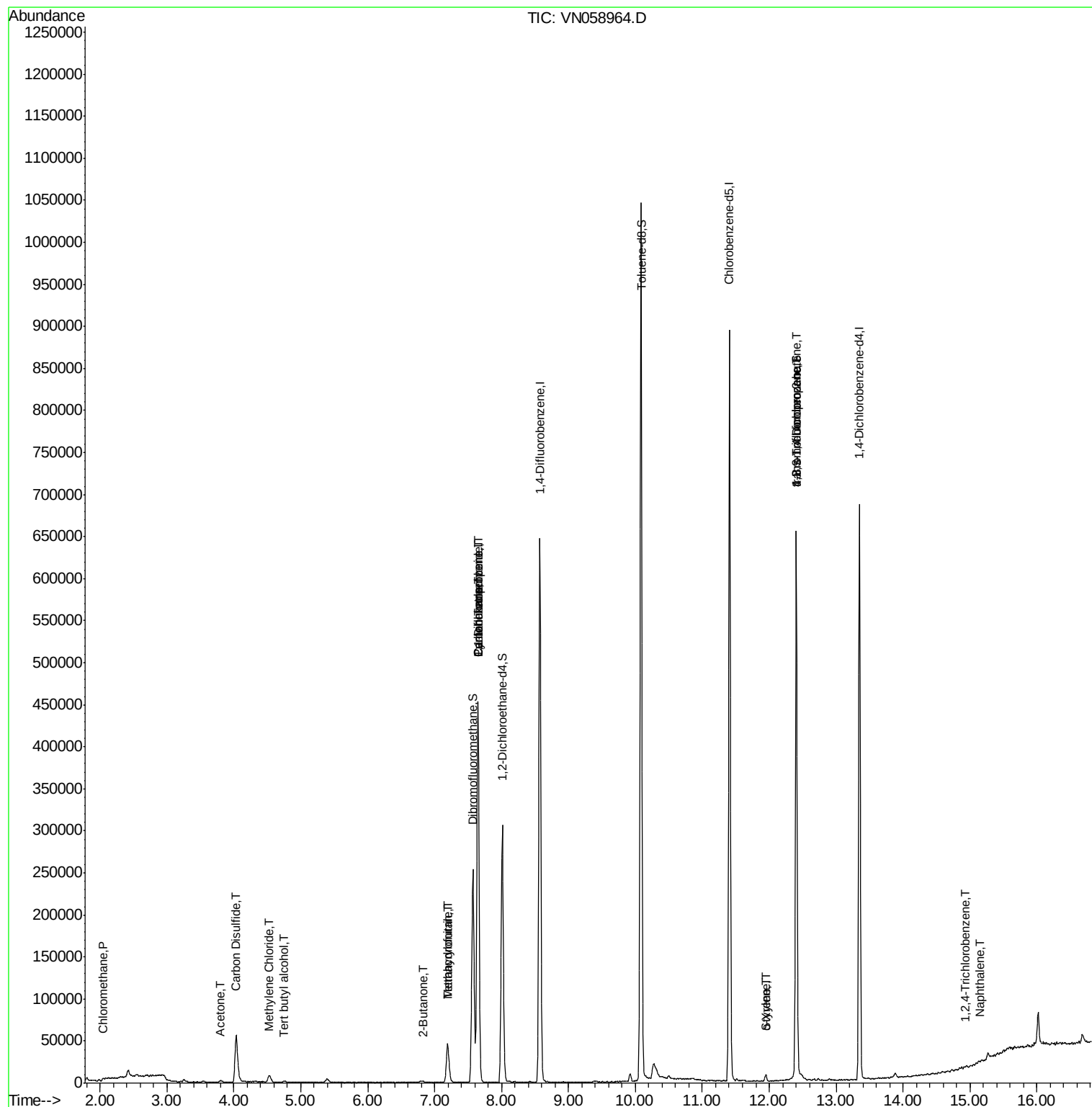
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1866	0.344	ug/l	98
11) Tert butyl alcohol	4.74	59	1232	1.440	ug/l #	72
16) Acetone	3.80	43	3836	1.505	ug/l #	82
17) Carbon Disulfide	4.03	76	3567	0.319	ug/l #	75
20) Methylene Chloride	4.52	84	3484	0.801	ug/l	90
25) 2-Butanone	6.84	43	1033	0.312	ug/l #	51
29) Tetrahydrofuran	7.20	42	38364	18.960	ug/l	100
31) Cyclohexane	7.65	56	8863	1.196	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	29799	5.245	ug/l #	52
38) Carbon Tetrachloride	7.64	117	34899	5.963	ug/l #	17
41) Methacrylonitrile	7.19	41	24734	8.971	ug/l #	100
69) o-Xylene	11.95	106	2226	0.357	ug/l	100
70) Styrene	11.95	104	64	1.719	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	119436	29.446	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	119436	76.709	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	98	2.547	ug/l #	13
95) Naphthalene	15.14	128	679	2.290	ug/l #	70

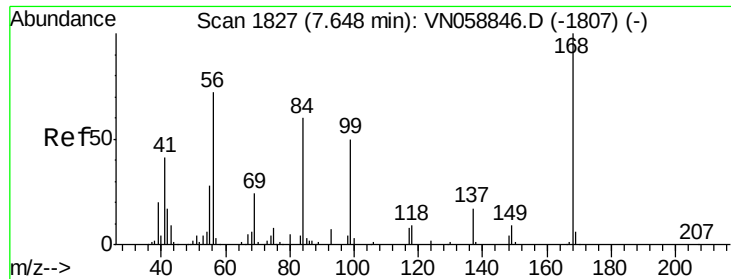
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

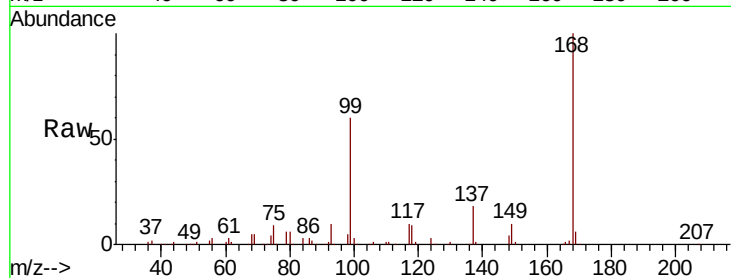
S81-ER-2019-2

Tot Ion:168 Resp: 351596

Ion Ratio Lower Upper

168 100

99 60.0 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

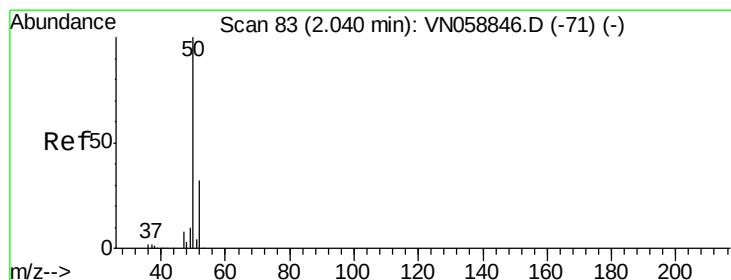
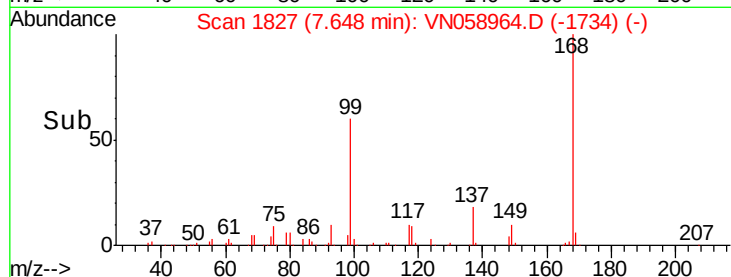
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.344 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058964.D

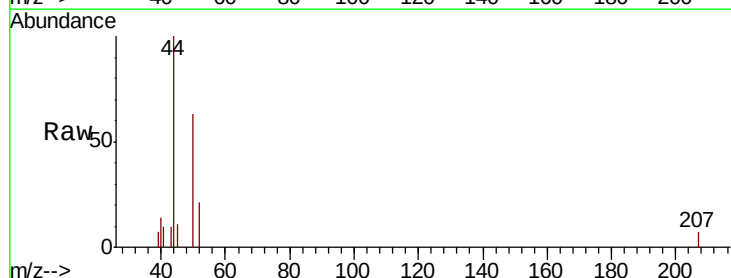
Acq: 24 Oct 2019 16:18

Tgt Ion: 50 Resp: 1866

Ion Ratio Lower Upper

50 100

52 33.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

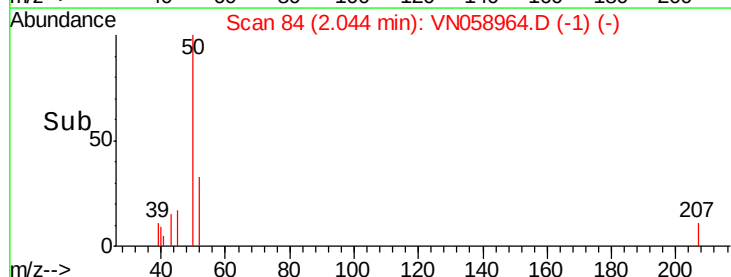
1500

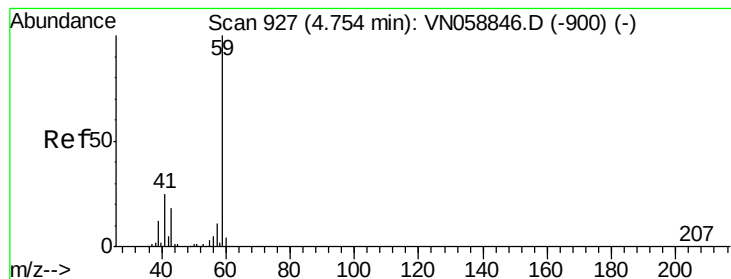
1000

500

0

Time-->





#11

Tert butyl alcohol

Concen: 1.440 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

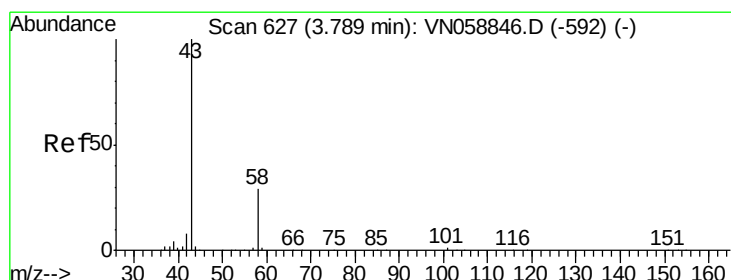
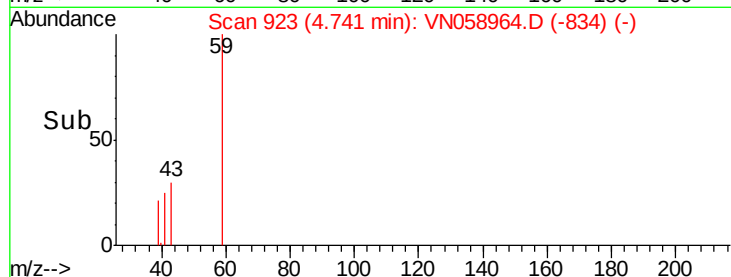
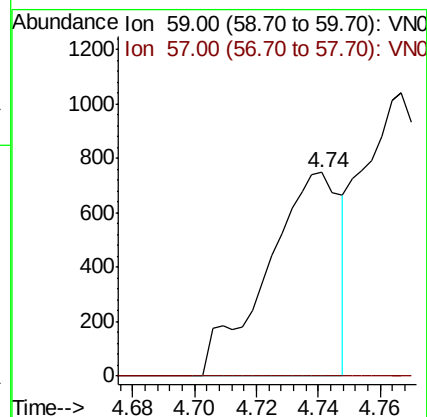
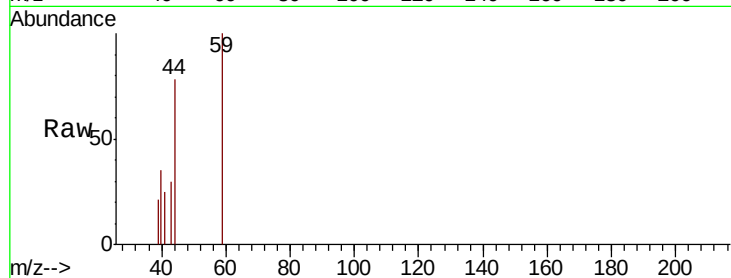
S81-ER-2019-2

Tot Ion: 59 Resp: 1232

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#16

Acetone

Concen: 1.505 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN058964.D

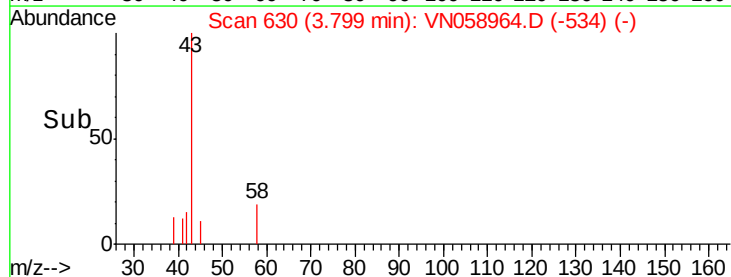
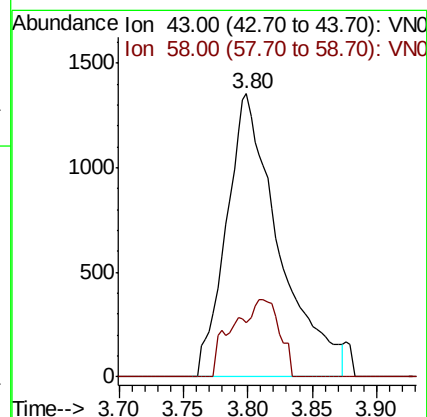
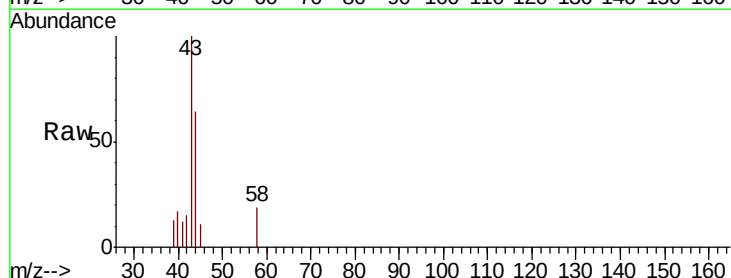
Acq: 24 Oct 2019 16:18

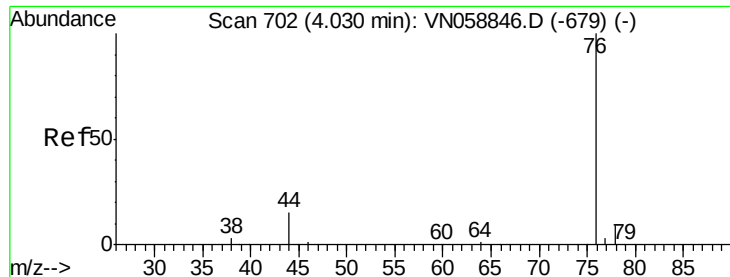
Tgt Ion: 43 Resp: 3836

Ion Ratio Lower Upper

43 100

58 19.2 23.1 34.7#





#17

Carbon Disulfide

Concen: 0.319 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampled :

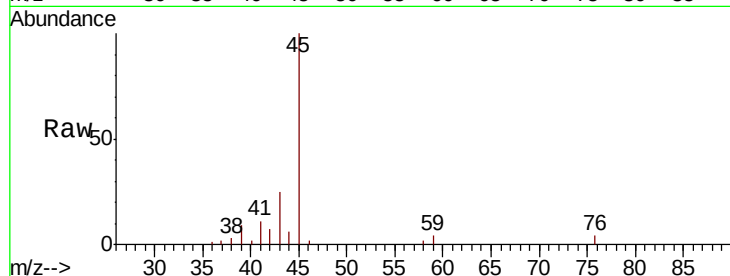
S81-ER-2019-2

Tot Ion: 76 Resp: 3567

Ion Ratio Lower Upper

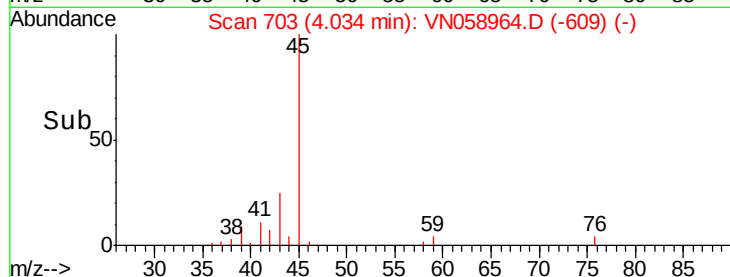
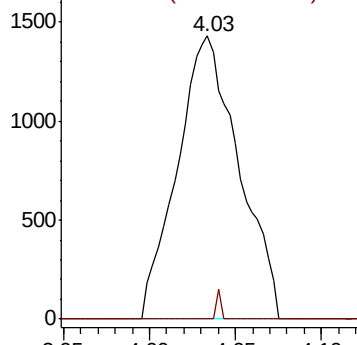
76 100

78 0.0 7.1 10.7#

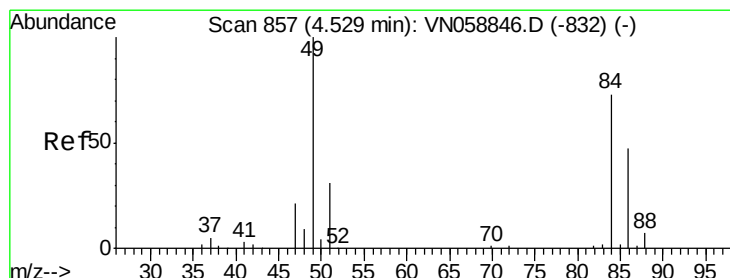


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time--> 3.95 4.00 4.05 4.10



#20

Methylene Chloride

Concen: 0.801 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Tgt Ion: 84 Resp: 3484

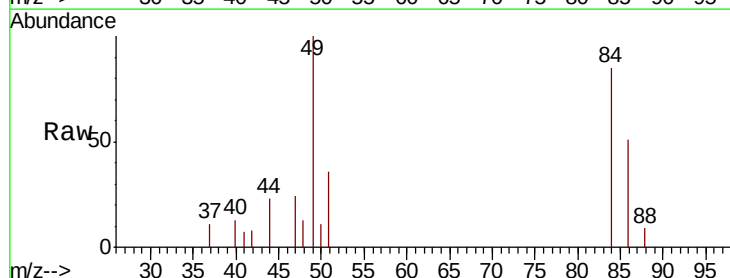
Ion Ratio Lower Upper

84 100

49 118.3 109.6 164.4

51 42.1 33.8 50.6

86 59.8 51.5 77.3

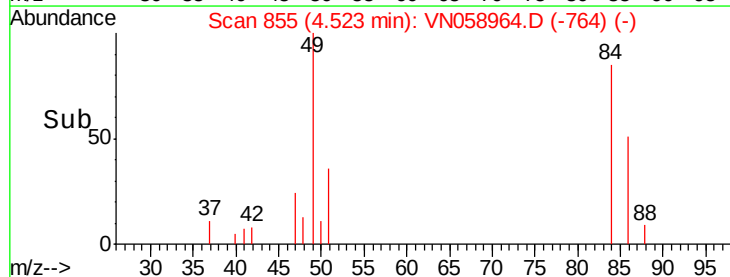
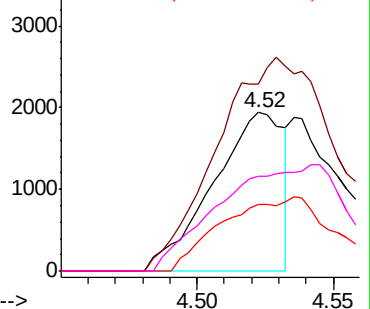


Abundance Ion 83.90 (83.60 to 84.60): VN0

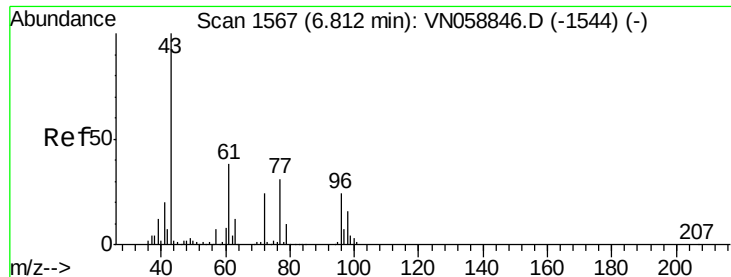
Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



Time--> 4.50 4.55



#25

2-Butanone

Concen: 0.312 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.03 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

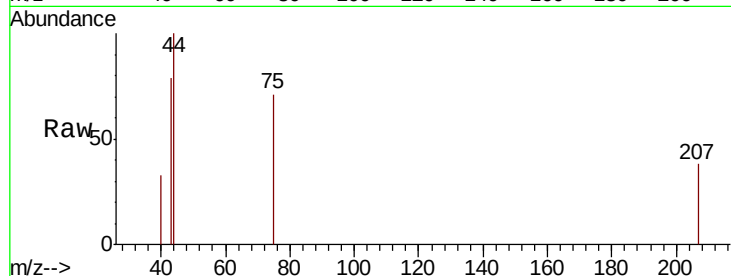
S81-ER-2019-2

Tot Ion: 43 Resp: 1033

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.84

6.85

6.86

6.87

6.88

6.89

6.90

6.91

6.92

6.93

6.94

6.95

6.96

6.97

6.98

6.99

7.00

7.01

7.02

7.03

7.04

7.05

7.06

7.07

7.08

7.09

7.10

7.11

7.12

7.13

7.14

7.15

7.16

7.17

7.18

7.19

7.20

7.21

7.22

7.23

7.24

7.25

7.26

7.27

7.28

7.29

7.30

7.31

7.32

7.33

7.34

7.35

7.36

7.37

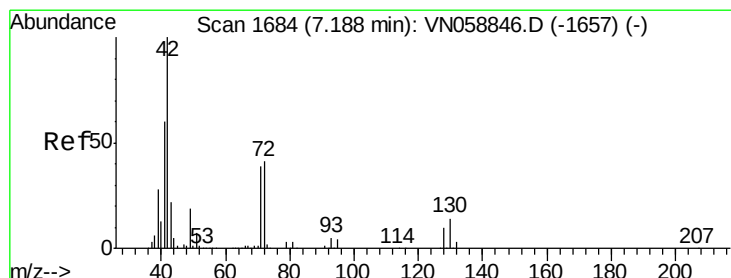
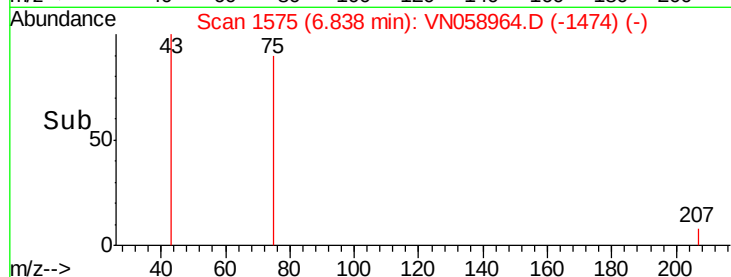
7.38

7.39

7.40

7.41

7.42



#29

Tetrahydrofuran

Concen: 18.960 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

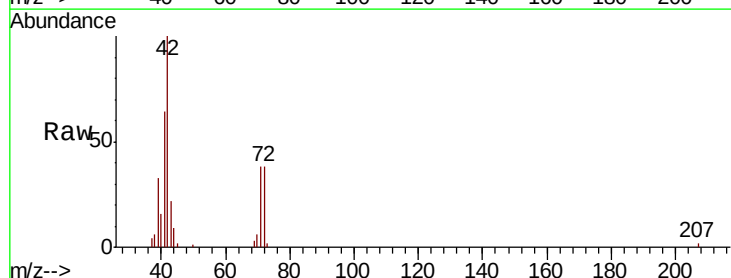
Tgt Ion: 42 Resp: 38364

Ion Ratio Lower Upper

42 100

72 40.3 32.2 48.2

71 38.6 30.6 45.8



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.20

7.21

7.22

7.23

7.24

7.25

7.26

7.27

7.28

7.29

7.30

7.31

7.32

7.33

7.34

7.35

7.36

7.37

7.38

7.39

7.40

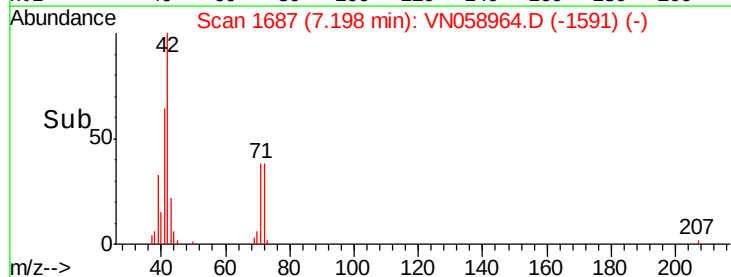
7.41

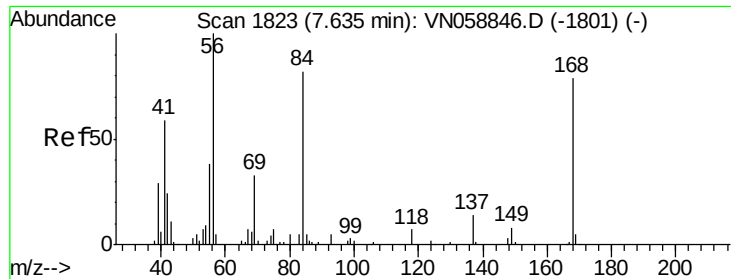
7.42

7.43

7.44

7.45

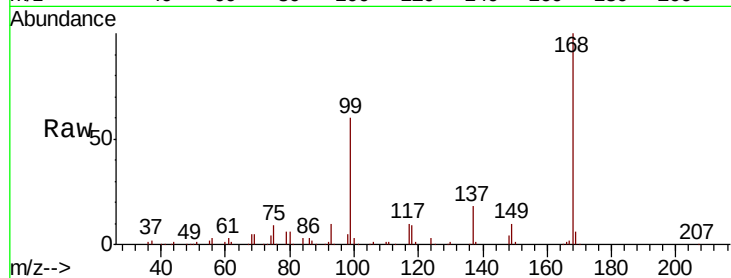




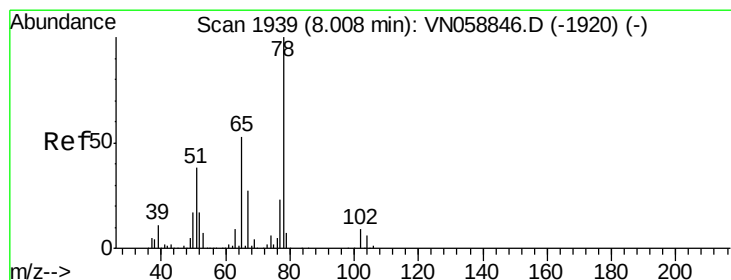
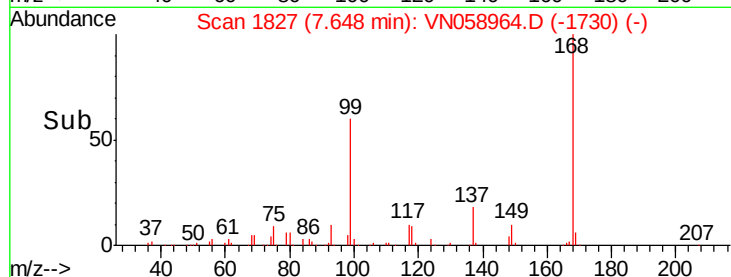
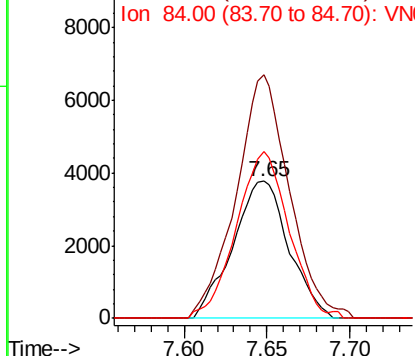
#31
Cyclohexane
Concen: 1.196 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampleId :
S81-ER-2019-2

Tot Ion: 56 Resp: 8863
Ion Ratio Lower Upper
56 100
69 177.5 26.2 39.4#
84 121.5 65.6 98.4#

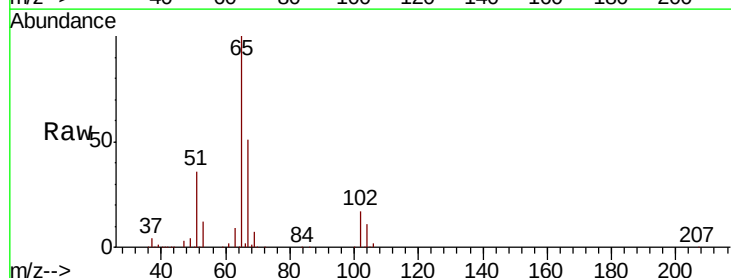


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

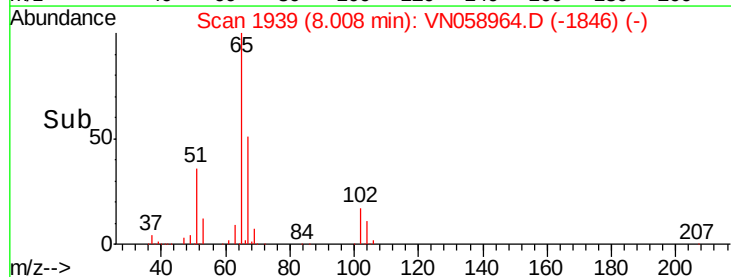
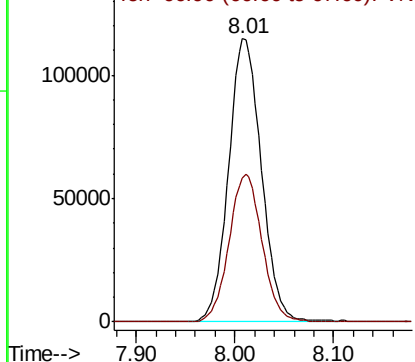


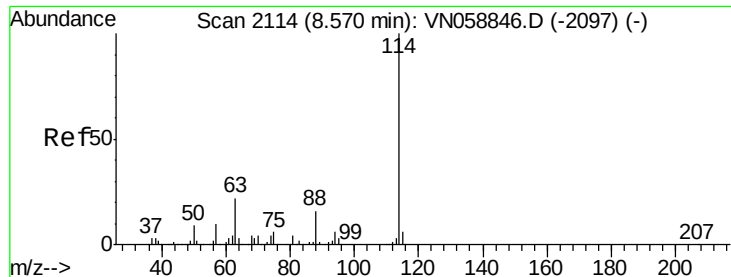
#33
1,2-Dichloroethane-d4
Concen: 51.669 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion: 65 Resp: 266441
Ion Ratio Lower Upper
65 100
67 52.3 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

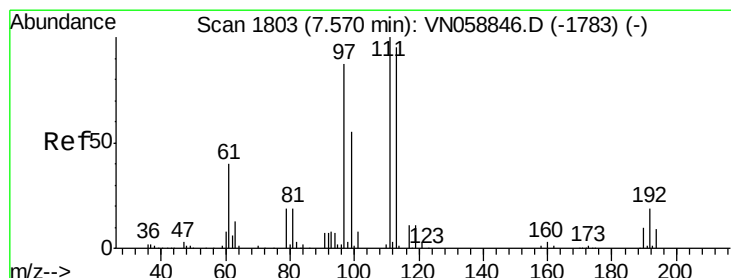
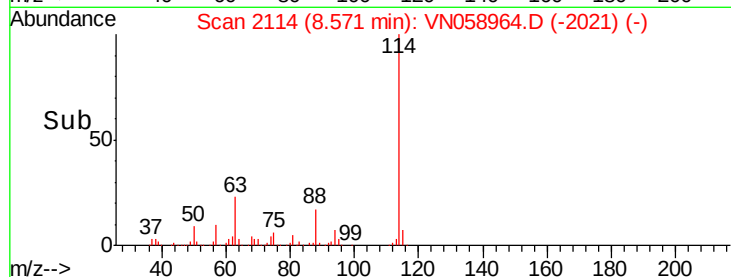
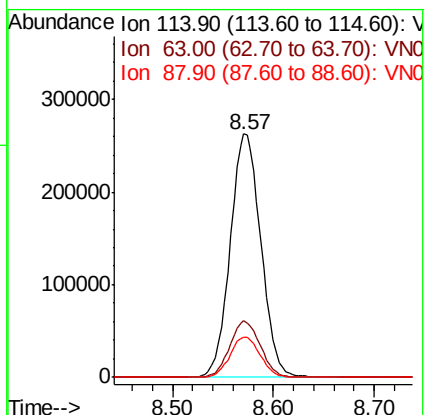
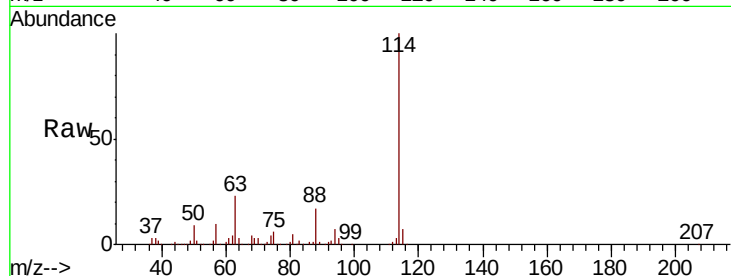




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

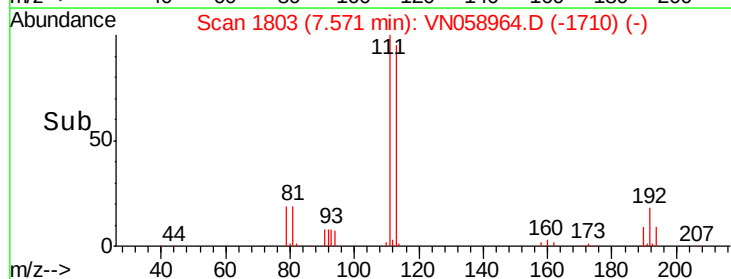
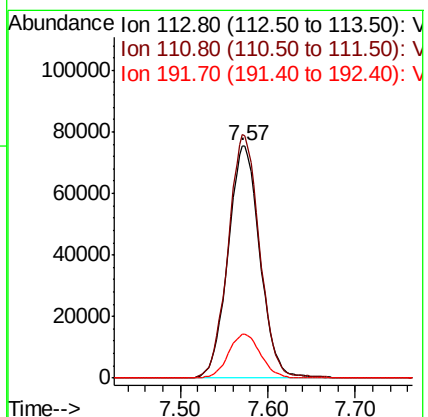
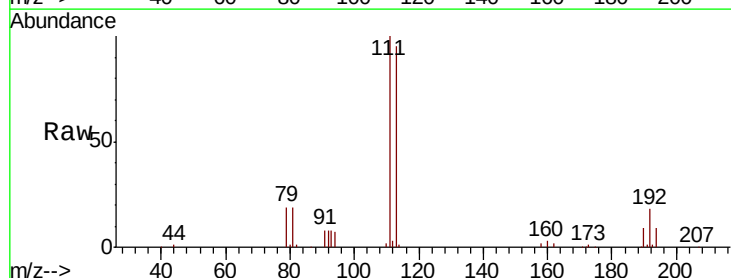
Instrument :
 MSVOA_N
 ClientSampleId :
 S81-ER-2019-2

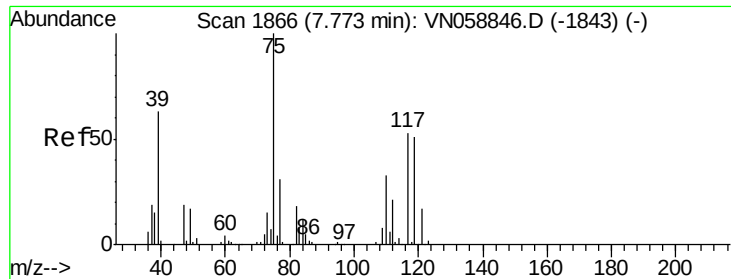
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	44.4
88	16.7	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 52.129 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.0	82.0	123.0
192	19.2	15.0	22.6

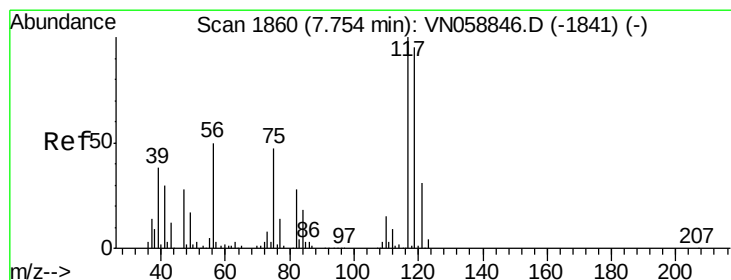
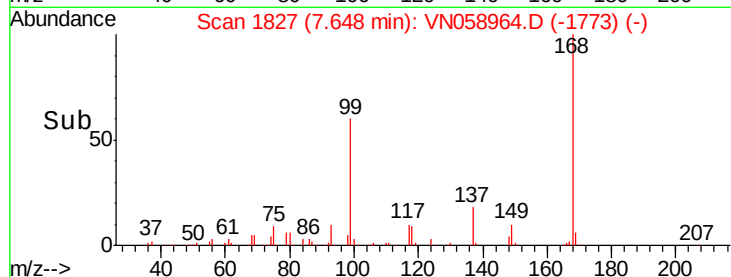
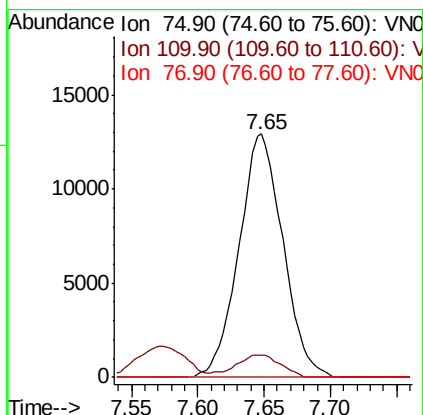
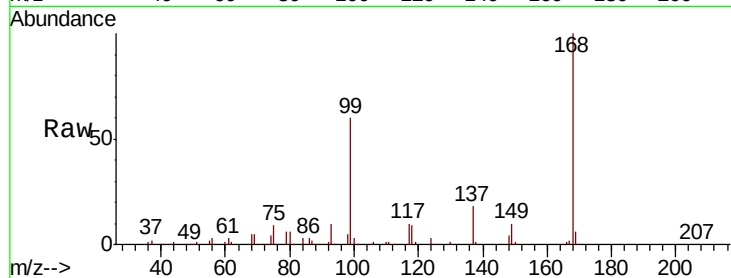




#36
 1,1-Dichloropropene
 Concen: 5.245 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

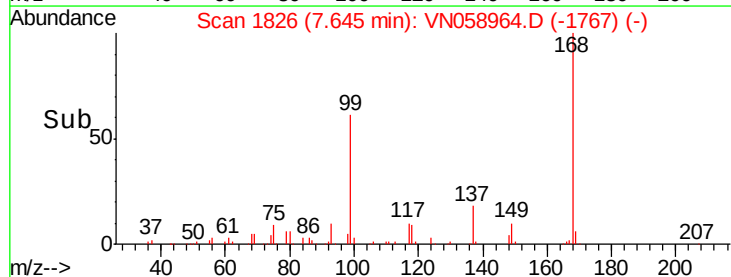
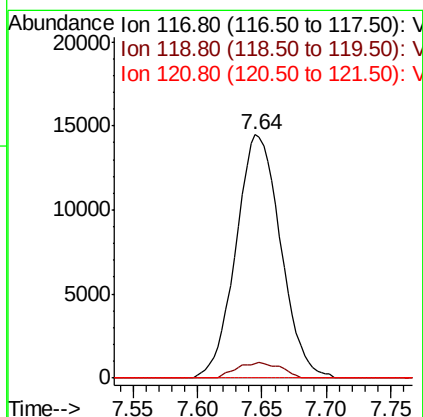
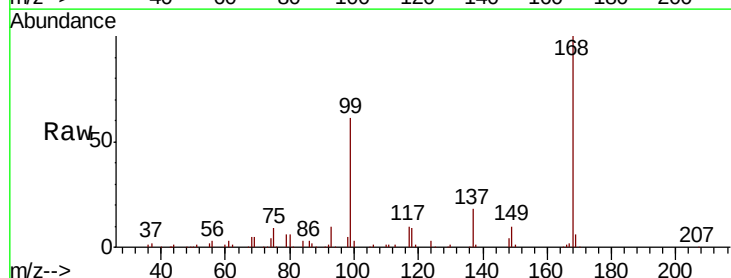
Instrument :
 MSVOA_N
 ClientSampleId :
 S81-ER-2019-2

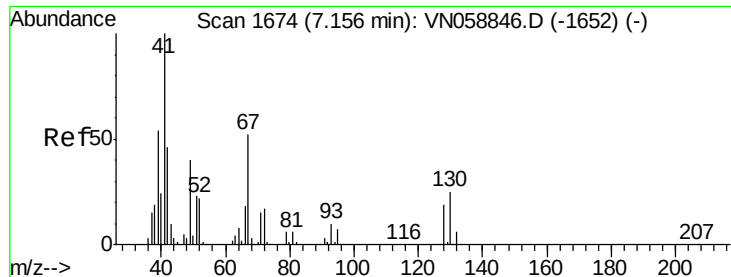
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.963 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.7	113.5#
121	0.0	25.0	37.6#

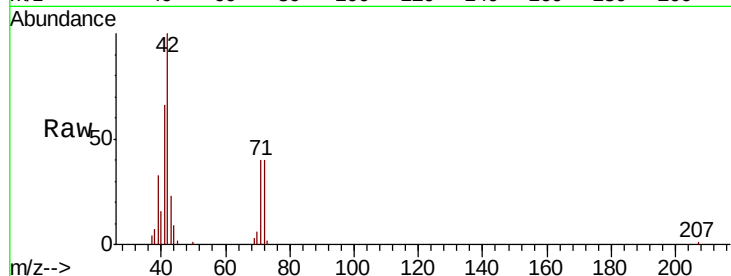




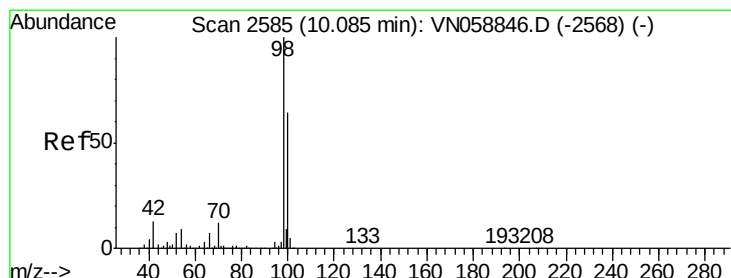
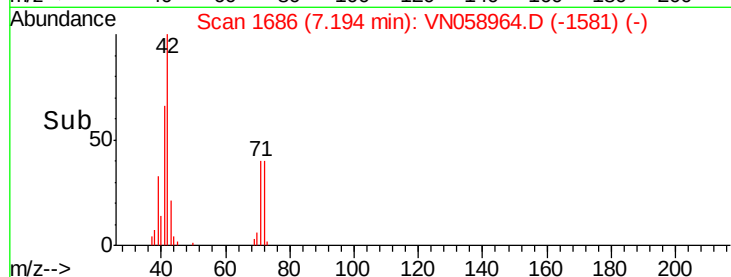
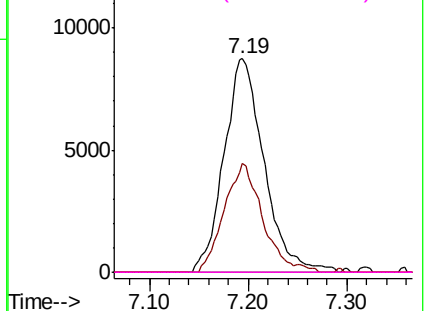
#41
Methacrylonitrile
Concen: 8.971 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampled :
S81-ER-2019-2

Tot Ion:	41	Resp:	24734
Ion	Ratio	Lower	Upper
41	100		
39	49.2	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

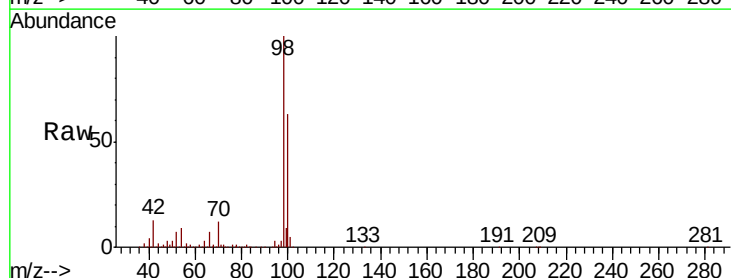


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

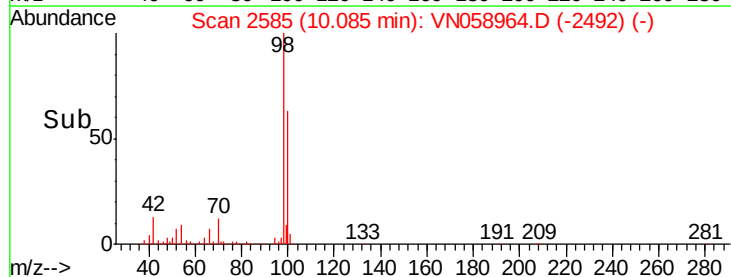
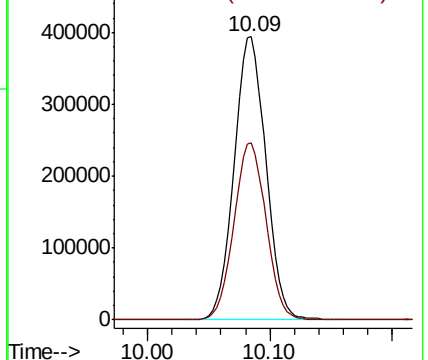


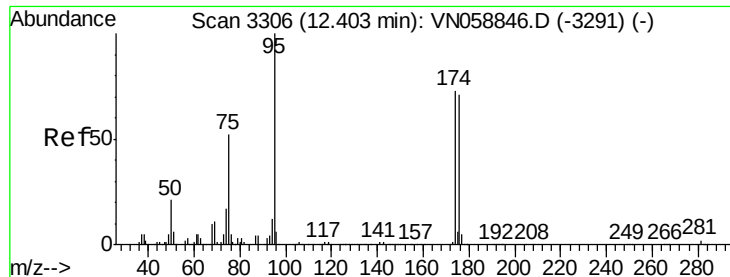
#50
Toluene-d8
Concen: 50.281 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion:	98	Resp:	712115
Ion	Ratio	Lower	Upper
98	100		
100	63.1	51.4	77.2



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





#62

4-Bromofluorobenzene

Concen: 43.048 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

S81-ER-2019-2

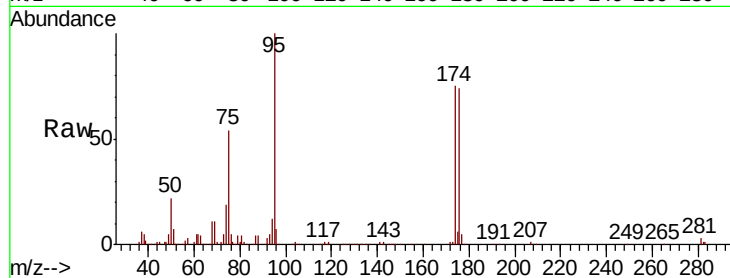
Tot Ion: 95 Resp: 223893

Ion Ratio Lower Upper

95 100

174 75.7 0.0 147.6

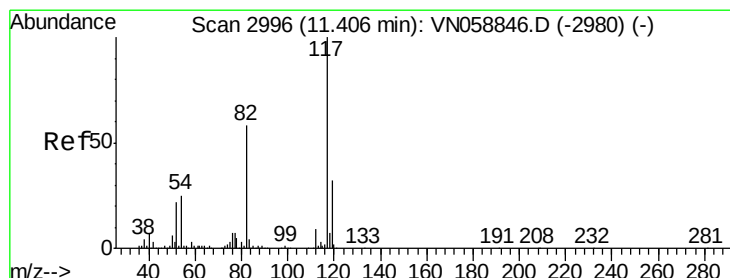
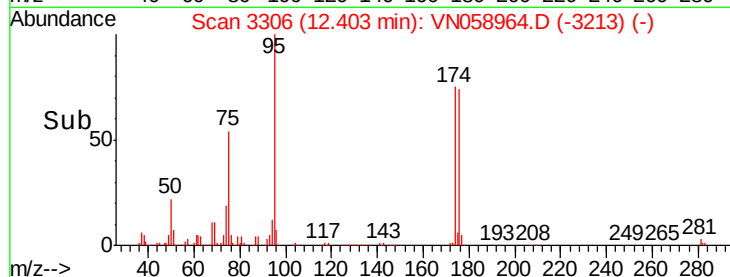
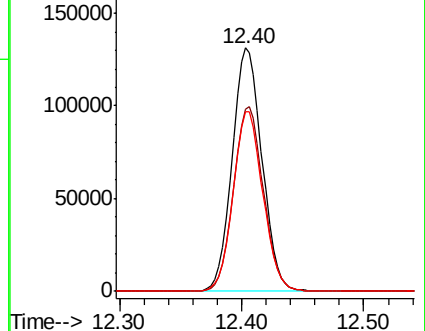
176 73.6 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

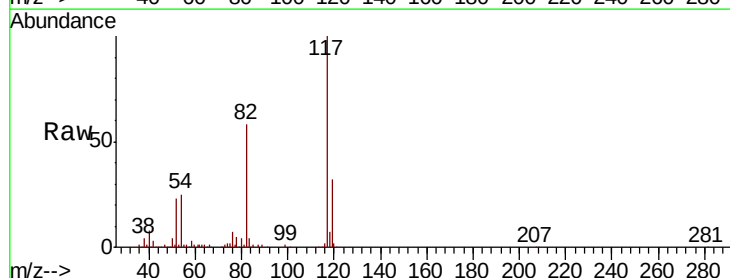
Tgt Ion: 117 Resp: 493071

Ion Ratio Lower Upper

117 100

82 58.1 46.6 69.8

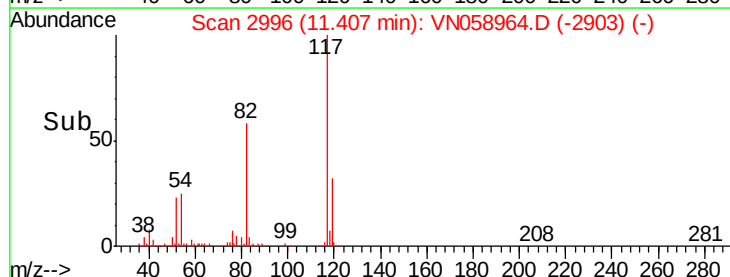
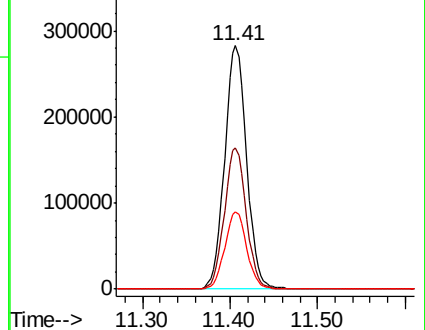
119 31.9 25.6 38.4

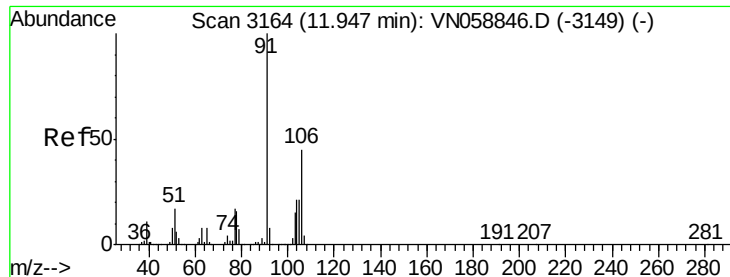


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

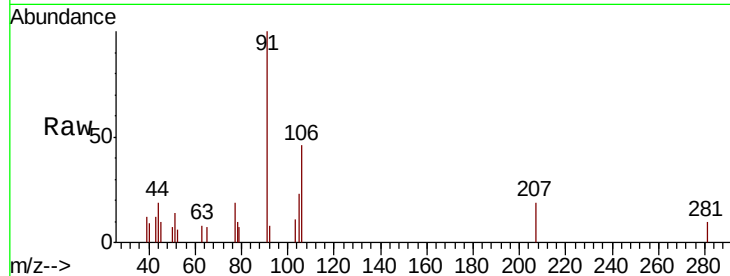




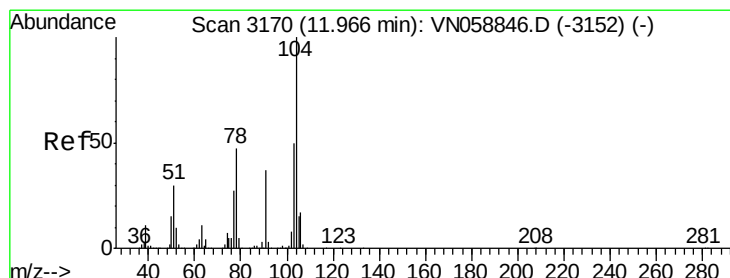
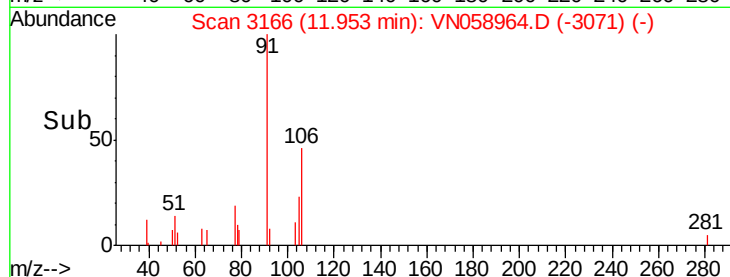
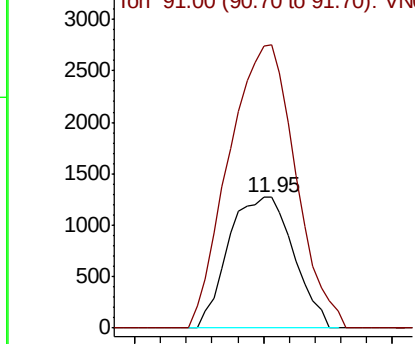
#69
o-Xylene
Concen: 0.357 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. 0.01 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Instrument :
MSVOA_N
ClientSampled :
S81-ER-2019-2

Tot Ion:106 Resp: 2226
Ion Ratio Lower Upper
106 100
91 222.6 111.5 334.4

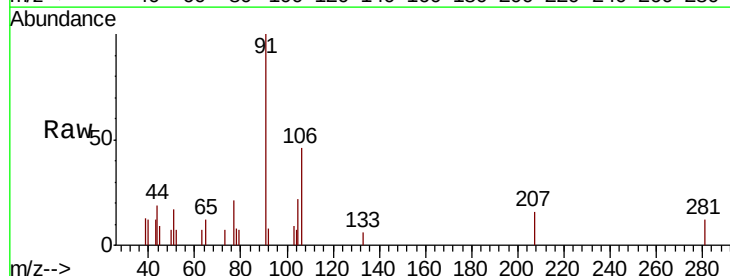


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN0

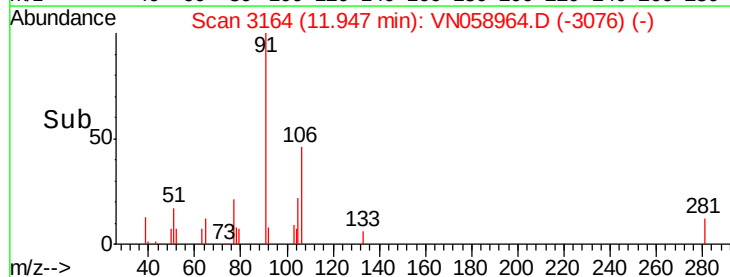
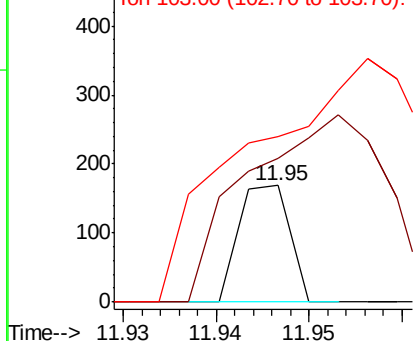


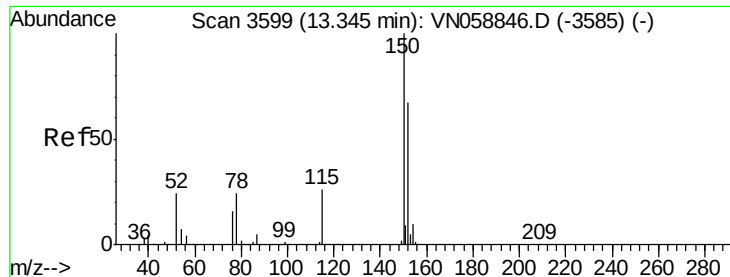
#70
Styrene
Concen: 1.719 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VN058964.D
Acq: 24 Oct 2019 16:18

Tgt Ion:104 Resp: 64
Ion Ratio Lower Upper
104 100
78 435.9 42.8 64.2#
103 690.6 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V

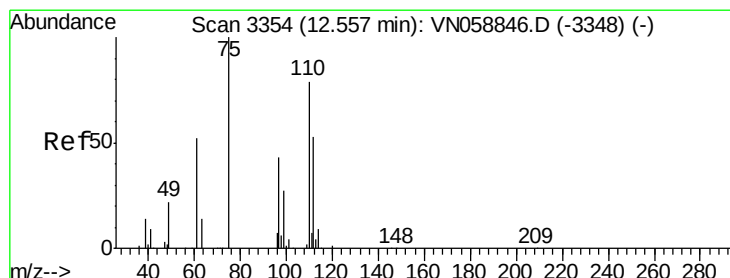
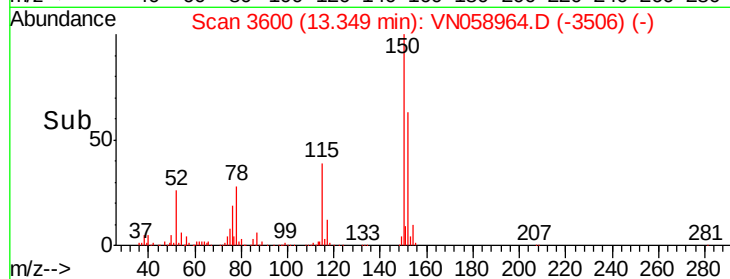
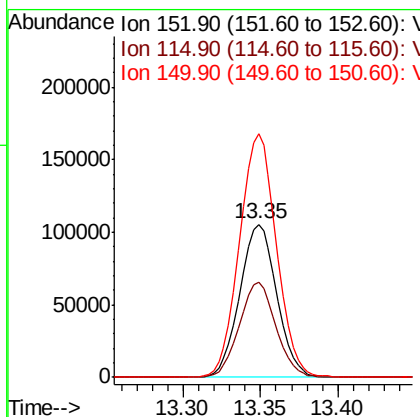
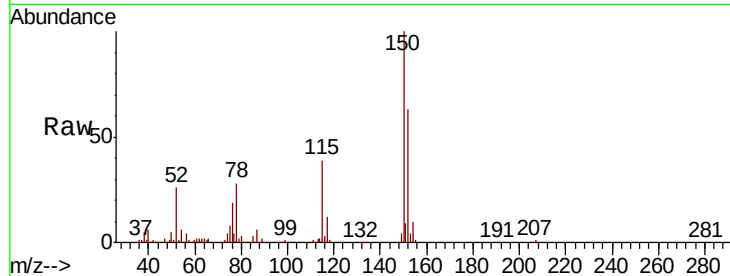




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.35 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

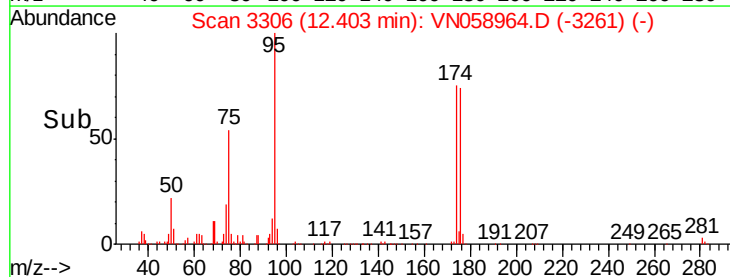
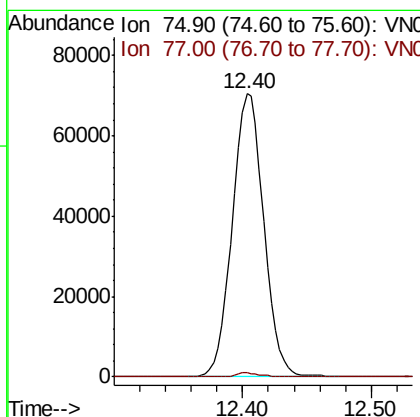
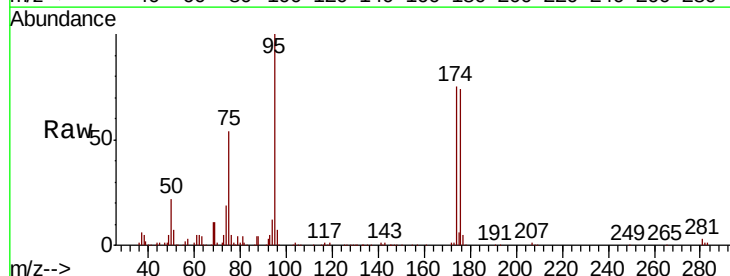
Instrument :
 MSVOA_N
 ClientSampleId :
 S81-ER-2019-2

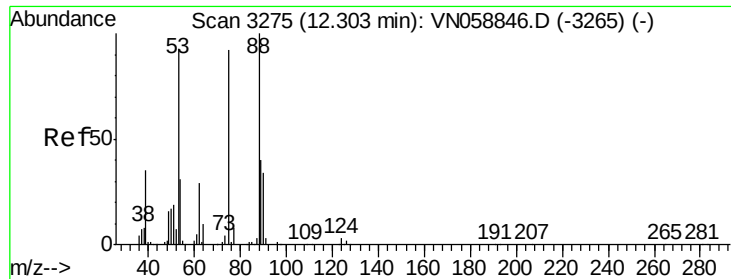
Tot Ion:152 Resp: 175013
 Ion Ratio Lower Upper
 152 100
 115 61.4 30.5 91.5
 150 159.3 0.0 344.4



#76
 1,2,3-Trichloropropane
 Concen: 29.446 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN058964.D
 Acq: 24 Oct 2019 16:18

Tgt Ion: 75 Resp: 119436
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 76.709 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

S81-ER-2019-2

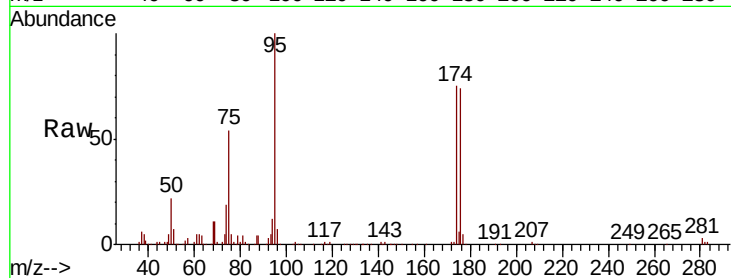
Tot Ion: 75 Resp: 119436

Ion Ratio Lower Upper

75 100

53 0.1 78.6 118.0#

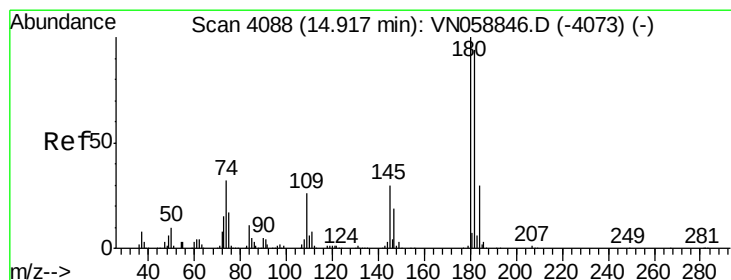
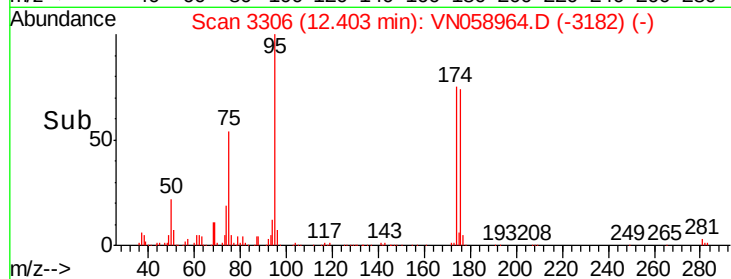
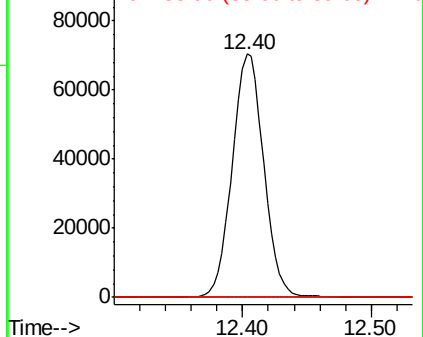
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058846.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN058846.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN058846.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.547 ug/l

RT: 14.92 min Scan# 4090

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

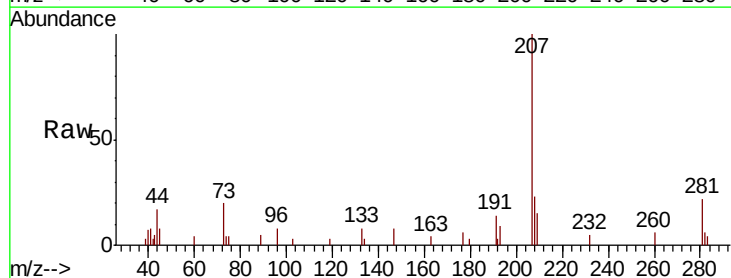
Tgt Ion: 180 Resp: 98

Ion Ratio Lower Upper

180 100

182 0.0 47.3 142.0#

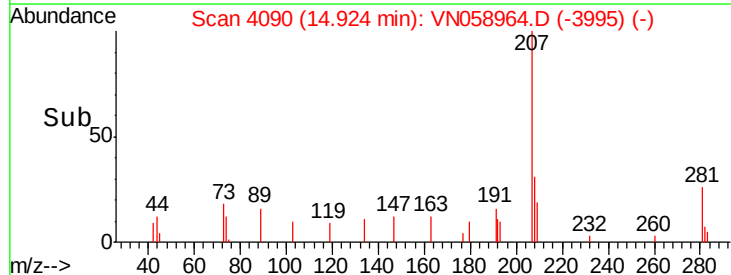
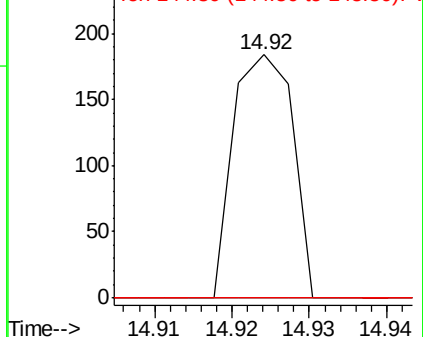
145 0.0 15.3 45.8#

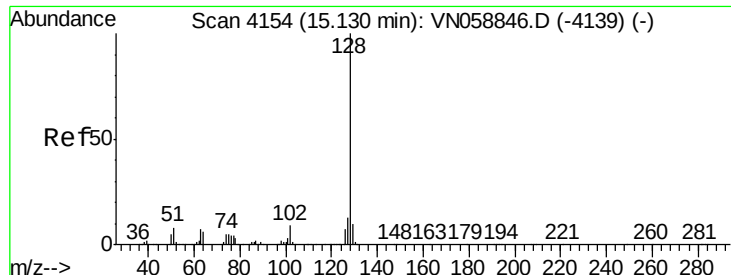


Abundance Ion 179.80 (179.50 to 180.50): VN058846.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN058846.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN058846.D (-4073) (-)





#95

Naphthalene

Concen: 2.290 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058964.D

Acq: 24 Oct 2019 16:18

Instrument :

MSVOA_N

ClientSampleId :

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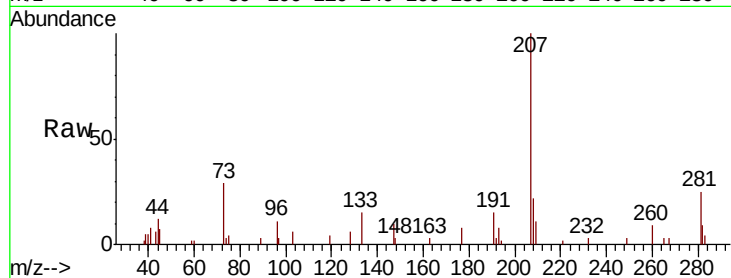
Tot Ion:128 Resp: 679

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



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

