

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091619\
 Data File : VN058125.D
 Acq On : 16 Sep 2019 17:35
 Operator : JC/SP
 Sample : K4878-19
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CSA-2-7

Quant Time: Sep 17 03:53:36 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	336489	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	566594	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	529509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	274940	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	355982	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	
35) Dibromofluoromethane	7.58	113	242375	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	
50) Toluene-d8	10.08	98	970328	47.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.58%	
62) 4-Bromofluorobenzene	12.41	95	325755	42.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.20%	

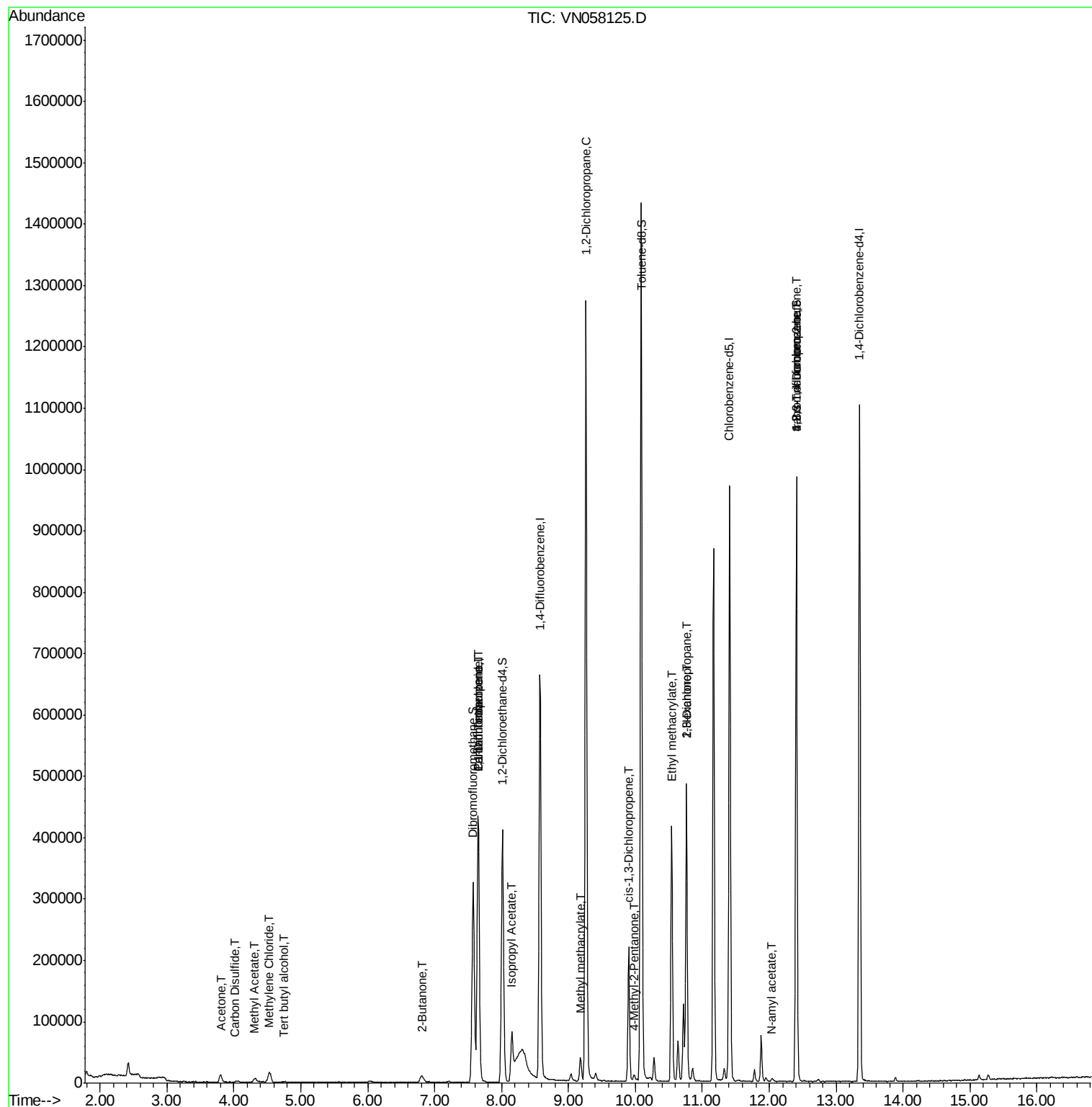
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.51	94	29	Below Cal	#	2
11) Tert butyl alcohol	4.74	59	283	0.343	ug/l #	72
16) Acetone	3.80	43	20593	9.217	ug/l #	89
17) Carbon Disulfide	4.02	76	355	0.222	ug/l #	75
18) Methyl Acetate	4.31	43	12403	2.082	ug/l	91
20) Methylene Chloride	4.53	84	12274	1.697	ug/l #	91
25) 2-Butanone	6.83	43	3565	1.102	ug/l	95
31) Cyclohexane	7.65	56	8881	Below Cal	#	12
36) 1,1-Dichloropropene	7.66	75	29714	4.522	ug/l #	47
38) Carbon Tetrachloride	7.65	117	34110	5.686	ug/l #	15
43) Isopropyl Acetate	8.16	43	107595	9.424	ug/l #	86
45) 1,2-Dichloropropane	9.26	63	1610	0.280	ug/l #	44
48) Methyl methacrylate	9.18	41	5043	0.871	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7666	1.135	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	37598	4.655	ug/l #	67
56) Ethyl methacrylate	10.55	69	1770	0.223	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4623	0.508	ug/l #	43
59) 2-Hexanone	10.76	43	72338	14.285	ug/l #	56
74) N-amyl acetate	12.04	43	3525	0.380	ug/l #	47
76) 1,2,3-Trichloropropane	12.41	75	178551	28.708	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	178551	101.023	ug/l #	6
95) Naphthalene	15.13	128	6906	Below Cal		96

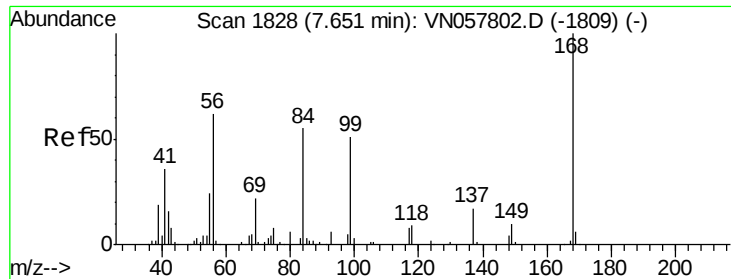
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

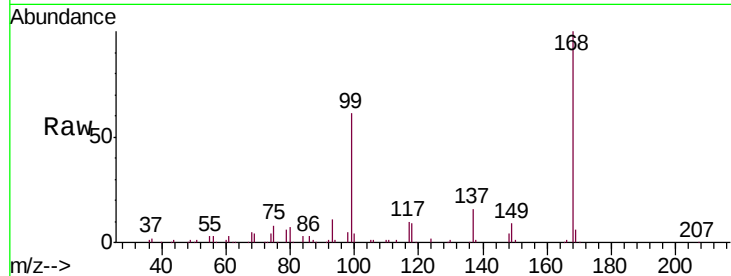
CSA-2-7

Tgt Ion: 168 Resp: 336489

Ion Ratio Lower Upper

168 100

99 60.7 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

150000

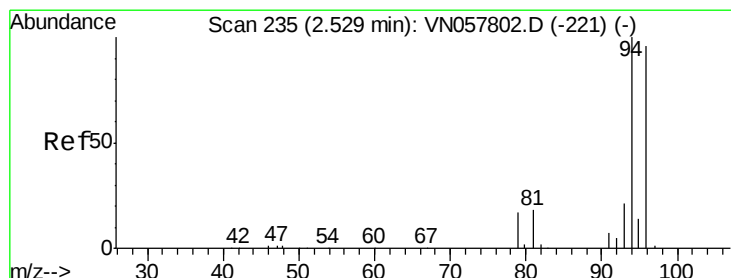
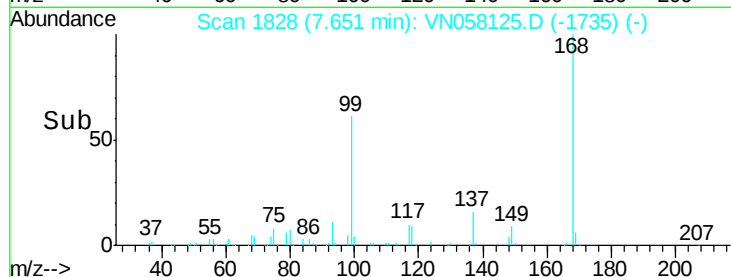
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.51 min Scan# 229

Delta R.T. -0.02 min

Lab File: VN058125.D

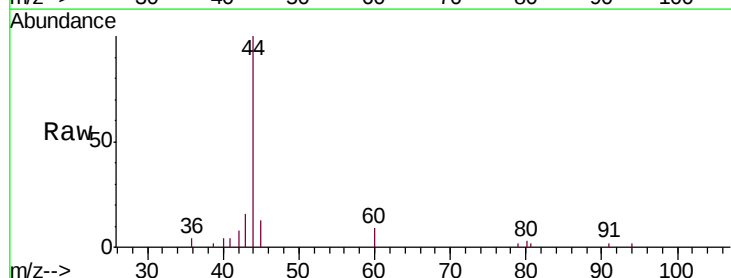
Acq: 16 Sep 2019 17:35

Tgt Ion: 94 Resp: 29

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

2.51

150

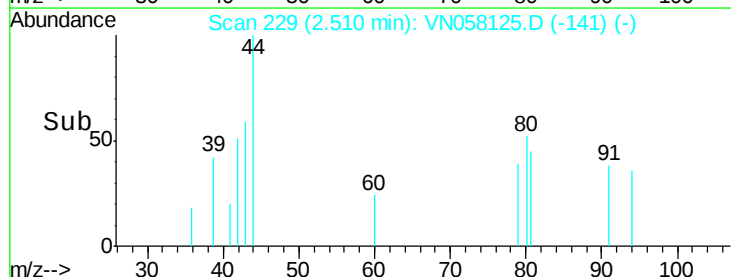
100

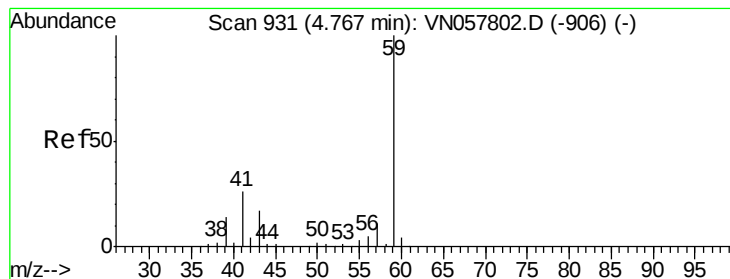
50

0

2.50 2.51 2.52 2.52

Time-->



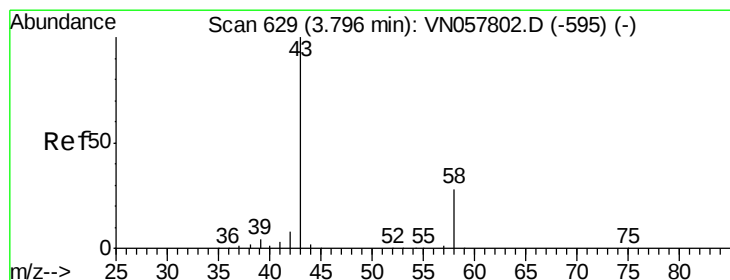
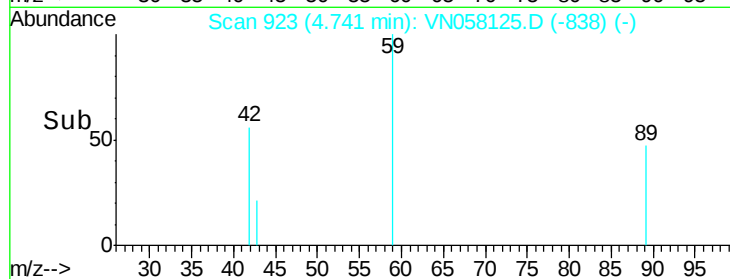
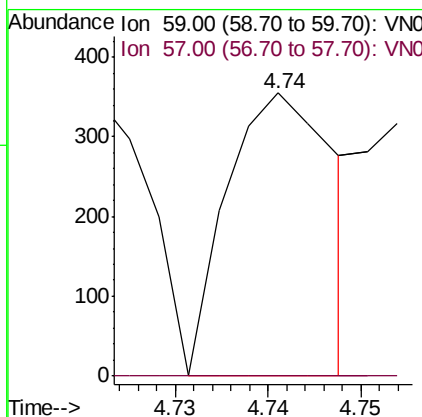
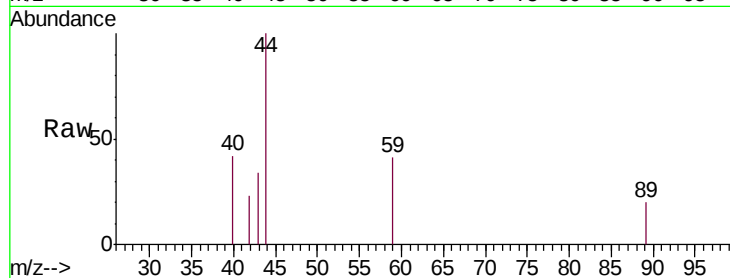


#11

Tert butyl alcohol
 Concen: 0.343 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.03 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-7

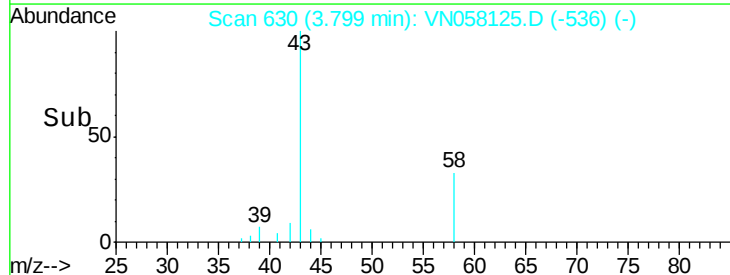
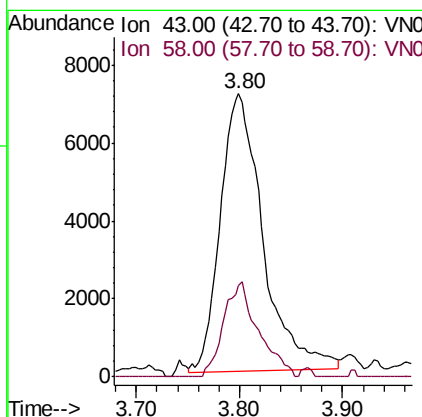
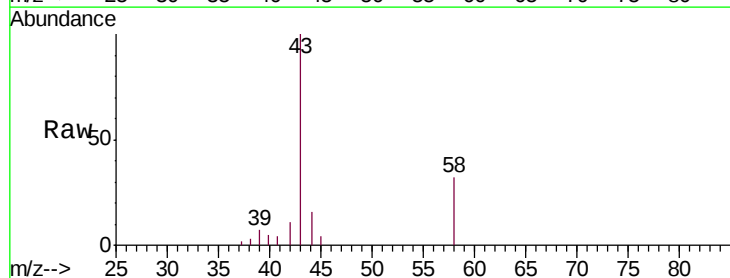
Tgt Ion: 59 Resp: 283
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

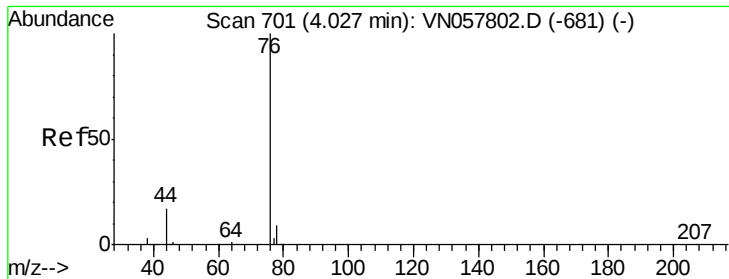


#16

Acetone
 Concen: 9.217 ug/l
 RT: 3.80 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

Tgt Ion: 43 Resp: 20593
 Ion Ratio Lower Upper
 43 100
 58 33.3 22.2 33.2#





#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

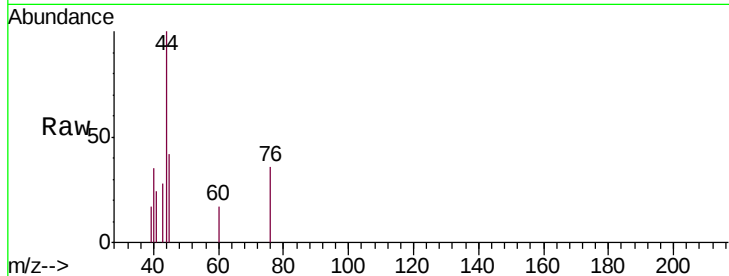
CSA-2-7

Tgt Ion: 76 Resp: 355

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

4.02

4.03

4.04

4.05

4.06

4.07

4.08

4.09

4.10

4.11

4.12

4.13

4.14

4.15

4.16

4.17

4.18

4.19

4.20

4.21

4.22

4.23

4.24

4.25

4.26

4.27

4.28

4.29

4.30

4.31

4.32

4.33

4.34

4.35

4.36

4.37

4.38

4.39

4.40

4.41

4.42

4.43

4.44

4.45

4.46

4.47

4.48

4.49

4.50

4.51

4.52

4.53

4.54

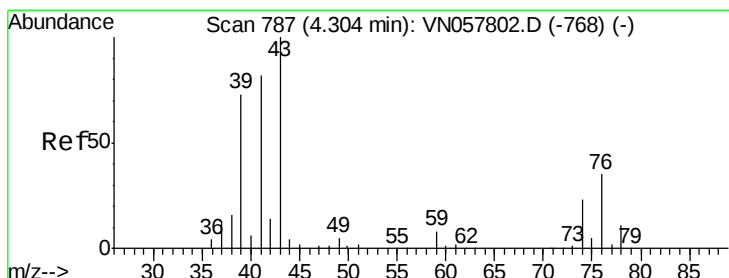
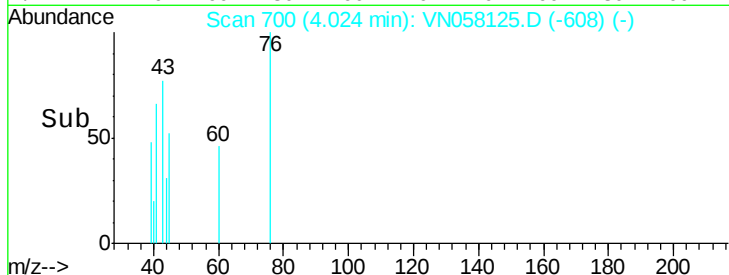
4.55

4.56

4.57

4.58

4.59



#18

Methyl Acetate

Concen: 2.082 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.01 min

Lab File: VN058125.D

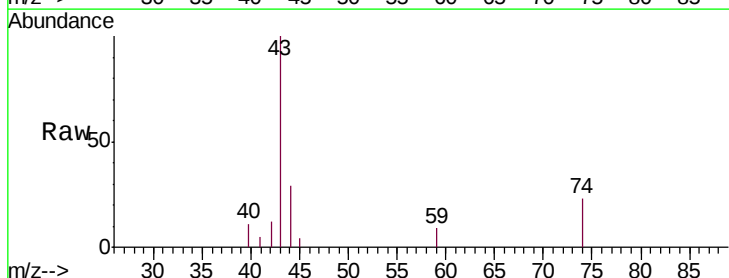
Acq: 16 Sep 2019 17:35

Tgt Ion: 43 Resp: 12403

Ion Ratio Lower Upper

43 100

74 18.1 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

4.32

4.33

4.34

4.35

4.36

4.37

4.38

4.39

4.40

4.41

4.42

4.43

4.44

4.45

4.46

4.47

4.48

4.49

4.50

4.51

4.52

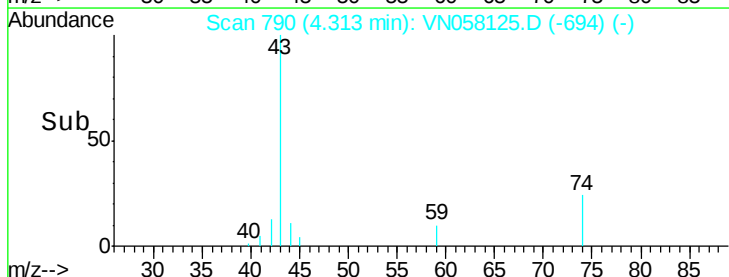
4.53

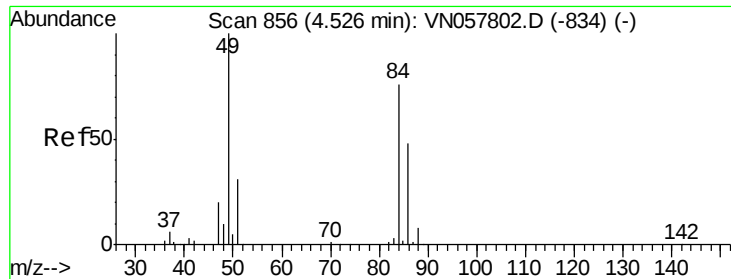
4.54

4.55

4.56

4.57

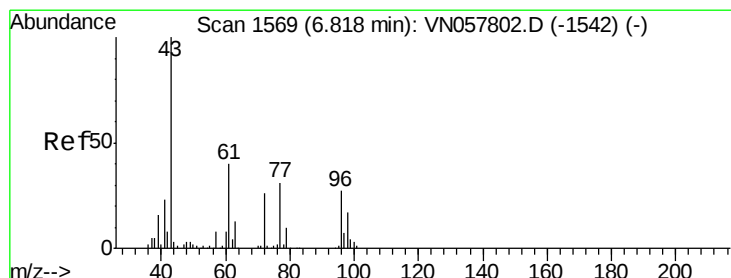
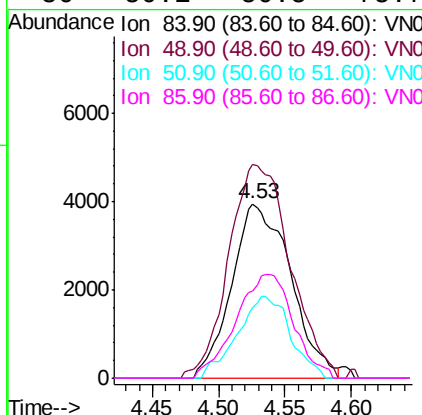
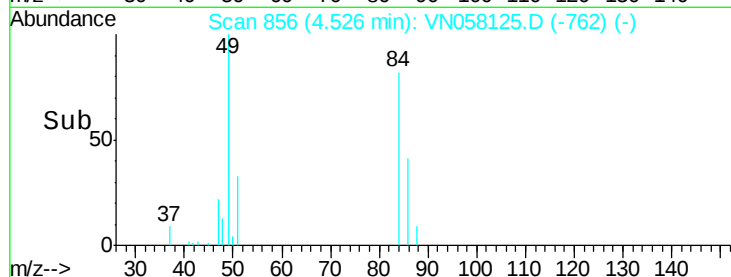
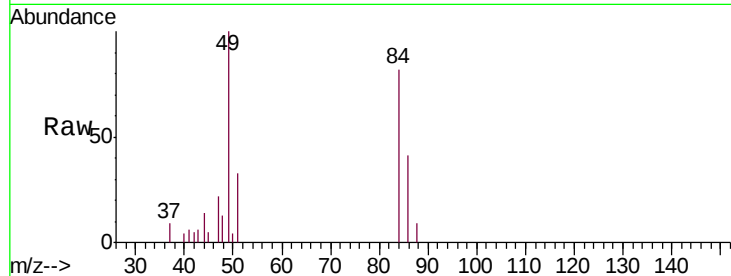




#20
Methylene Chloride
Concen: 1.697 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

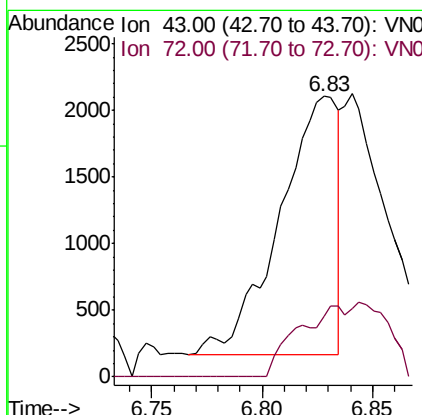
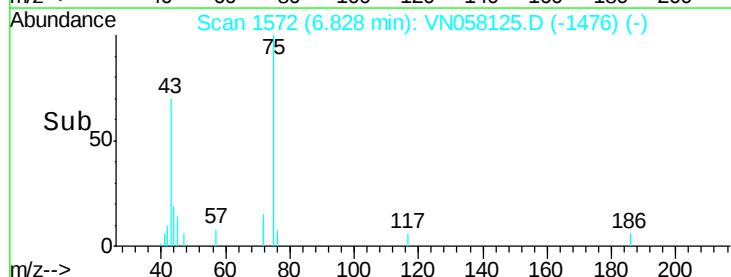
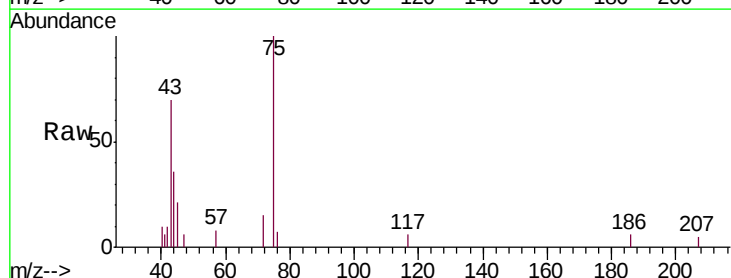
Instrument :
MSVOA_N
ClientSampled :
CSA-2-7

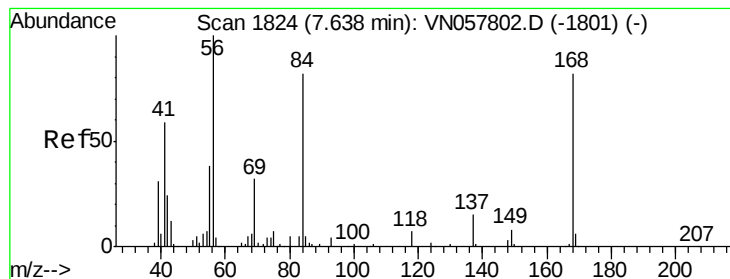
Tgt Ion: 84 Resp: 12274
Ion Ratio Lower Upper
84 100
49 122.6 104.8 157.2
51 40.6 33.0 49.4
86 50.1 50.5 75.7#



#25
2-Butanone
Concen: 1.102 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.01 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Tgt Ion: 43 Resp: 3565
Ion Ratio Lower Upper
43 100
72 23.4 20.6 30.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampled :

CSA-2-7

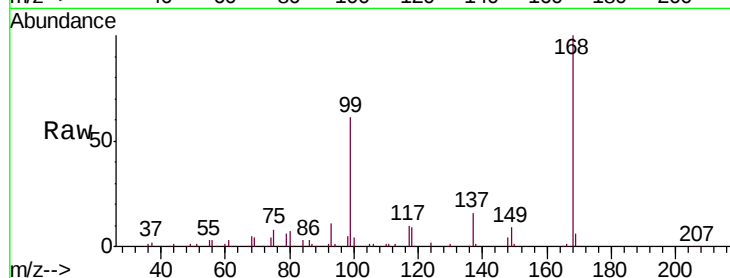
Tgt Ion: 56 Resp: 8881

Ion Ratio Lower Upper

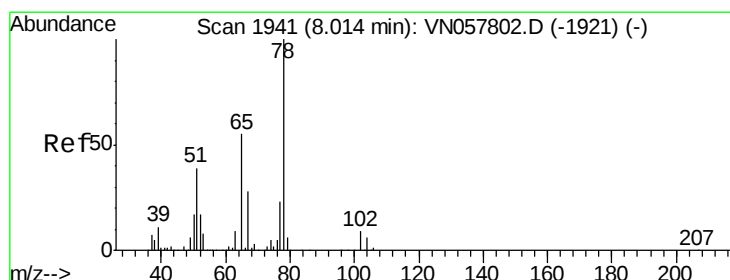
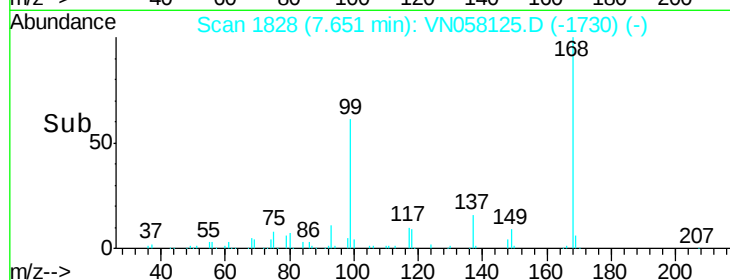
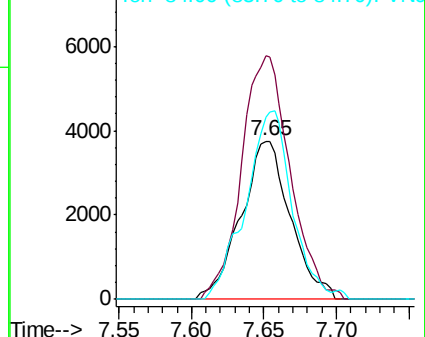
56 100

69 154.0 25.9 38.9#

84 115.4 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 52.233 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058125.D

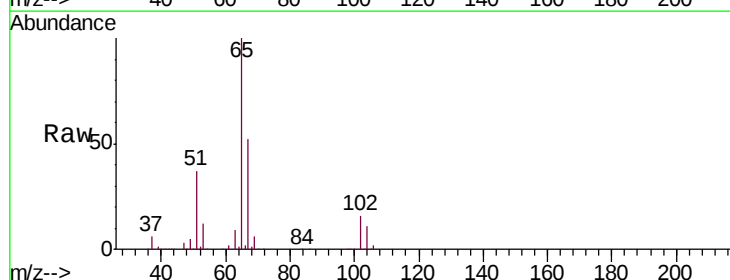
Acq: 16 Sep 2019 17:35

Tgt Ion: 65 Resp: 355982

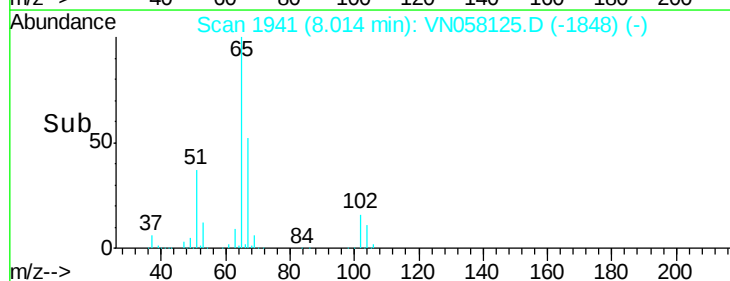
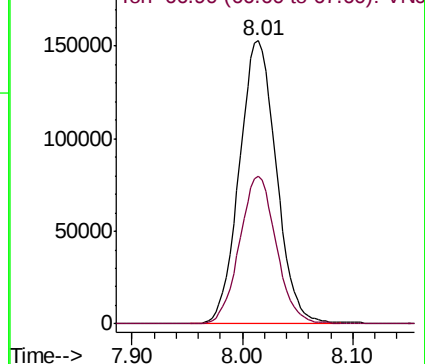
Ion Ratio Lower Upper

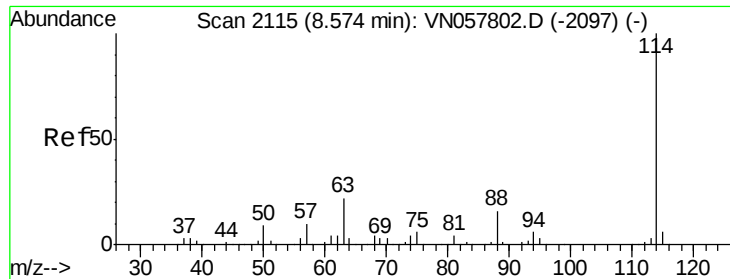
65 100

67 51.7 0.0 104.0



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

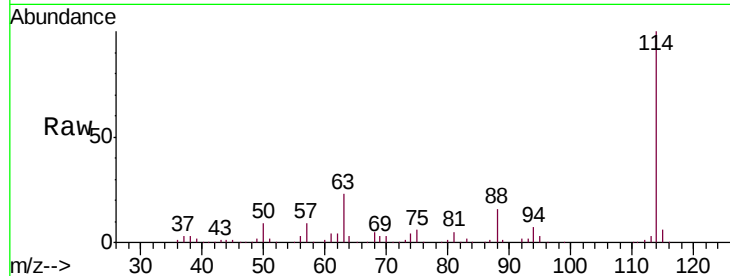




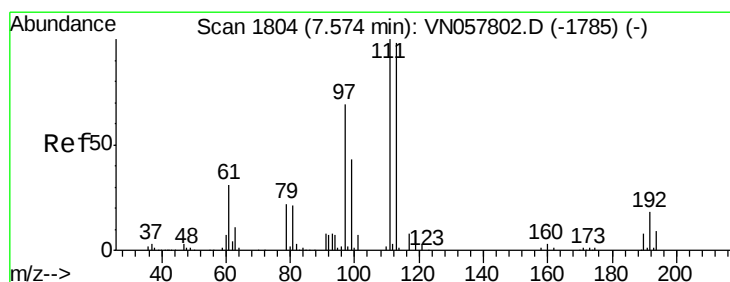
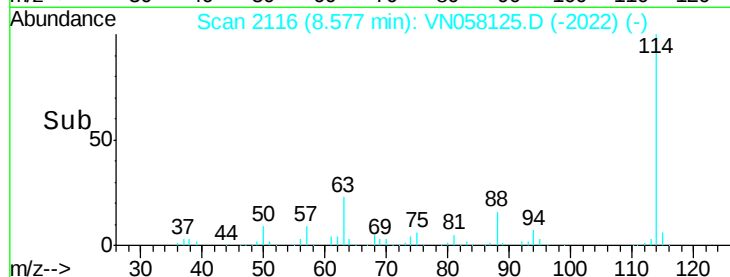
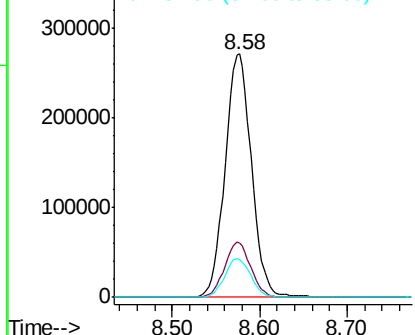
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
CSA-2-7

Tgt Ion:114 Resp: 566594
Ion Ratio Lower Upper
114 100
63 22.5 0.0 44.0
88 15.5 0.0 31.4

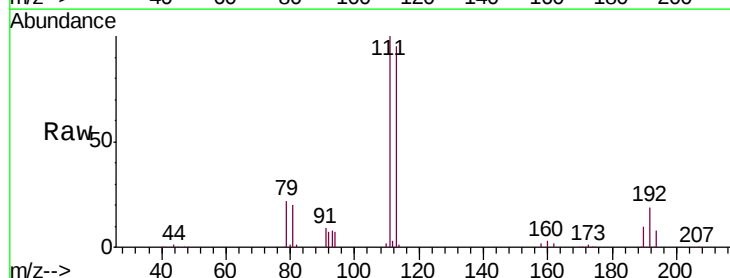


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

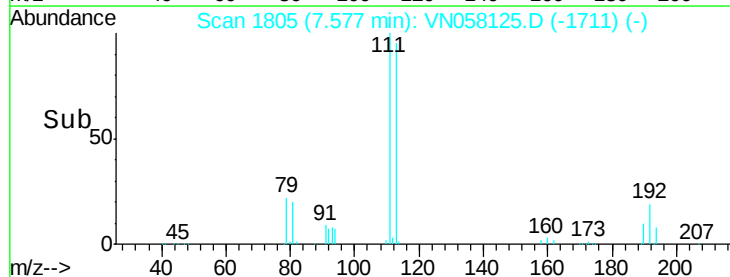
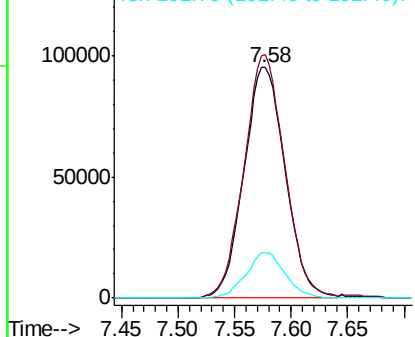


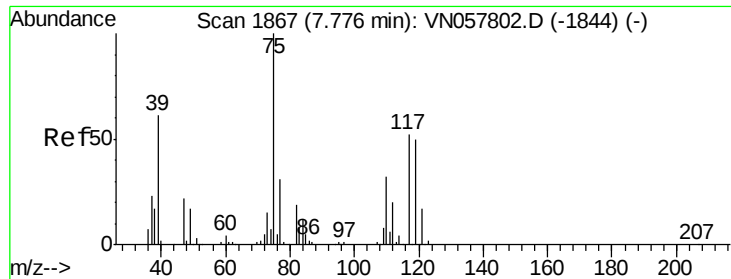
#35
Dibromofluoromethane
Concen: 46.348 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Tgt Ion:113 Resp: 242375
Ion Ratio Lower Upper
113 100
111 103.5 81.3 121.9
192 18.8 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

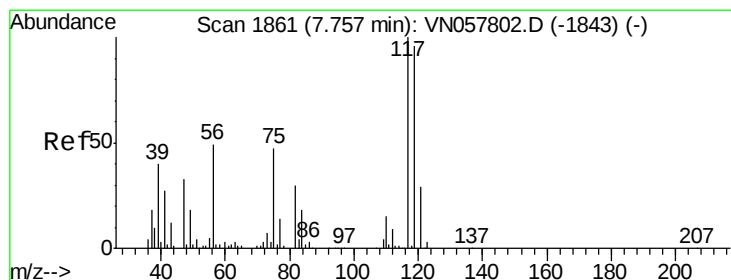
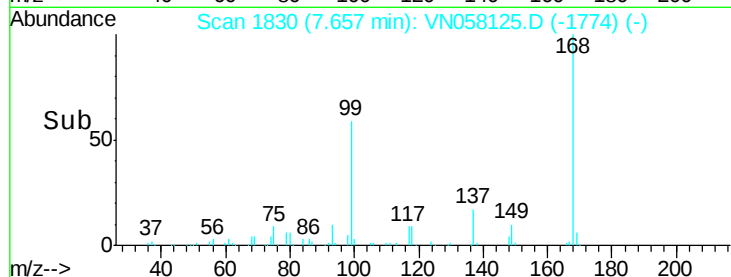
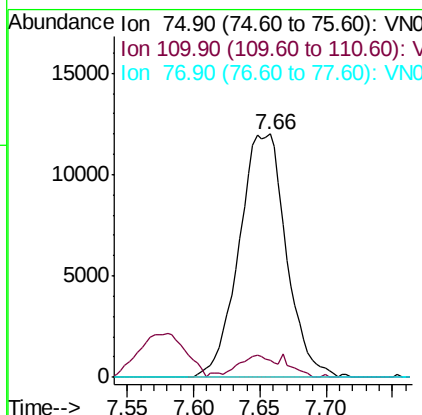
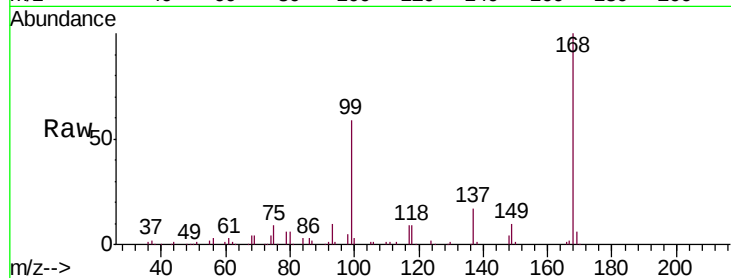




#36
 1,1-Dichloropropene
 Concen: 4.522 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.12 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

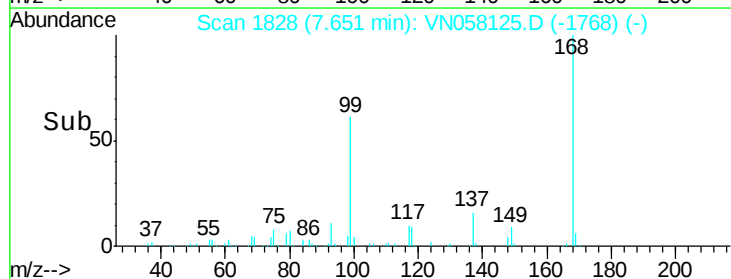
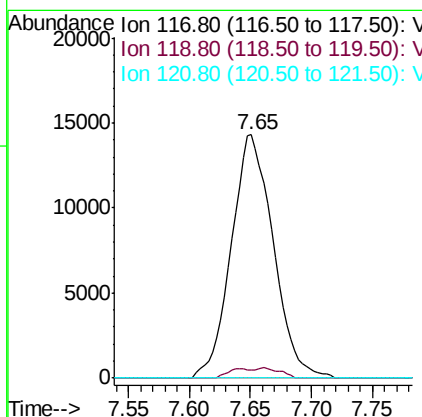
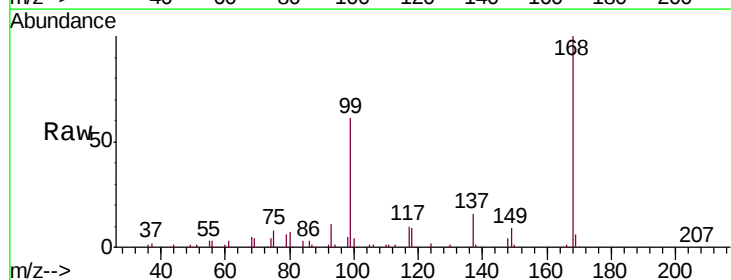
Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-7

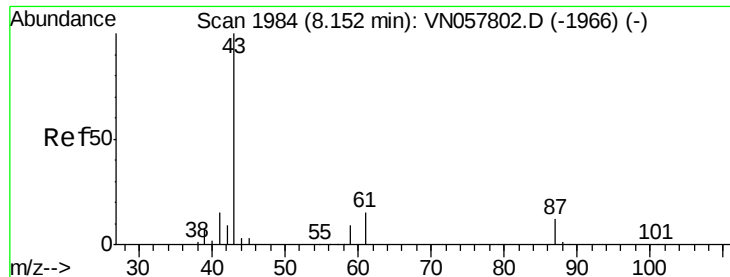
Tgt Ion: 75 Resp: 29714
 Ion Ratio Lower Upper
 75 100
 110 5.2 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.686 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

Tgt Ion: 117 Resp: 34110
 Ion Ratio Lower Upper
 117 100
 119 3.4 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 9.424 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampled :

CSA-2-7

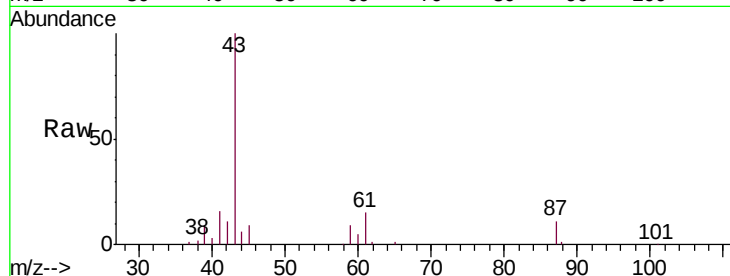
Tgt Ion: 43 Resp: 107595

Ion Ratio Lower Upper

43 100

61 15.8 20.1 30.1#

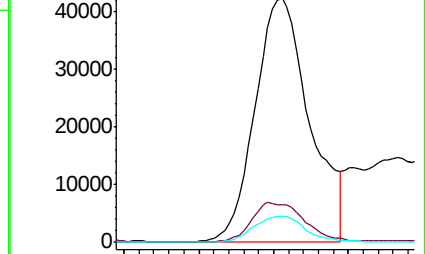
87 10.3 9.5 14.3



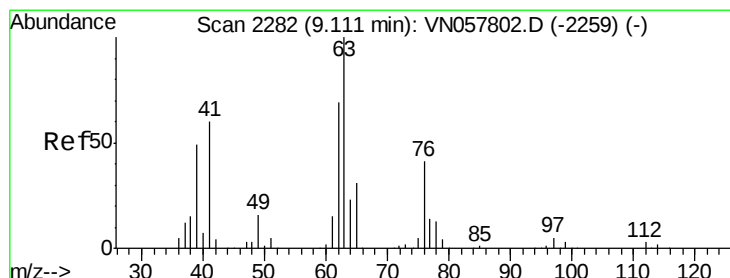
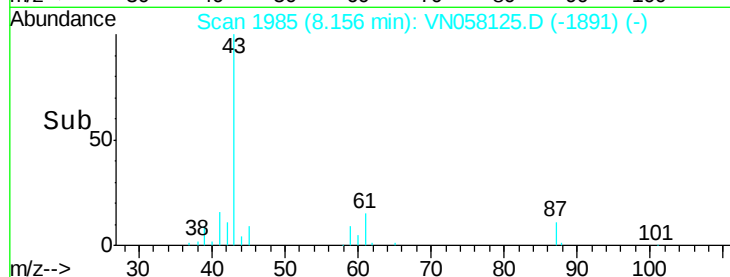
Abundance Ion 43.00 (42.70 to 43.70): VN058125.D (-1985) (-)

Ion 61.00 (60.70 to 61.70): VN058125.D (-1985) (-)

Ion 87.00 (86.70 to 87.70): VN058125.D (-1985) (-)



Time-->



#45

1,2-Dichloropropane

Concen: 0.280 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN058125.D

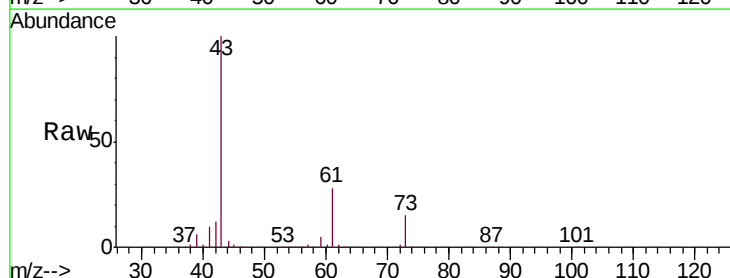
Acq: 16 Sep 2019 17:35

Tgt Ion: 63 Resp: 1610

Ion Ratio Lower Upper

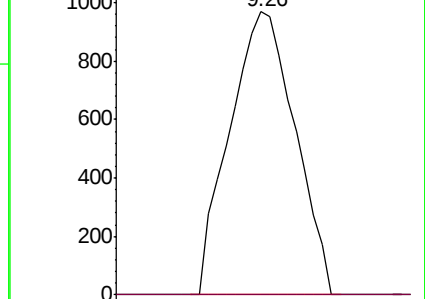
63 100

65 0.0 24.8 37.2#

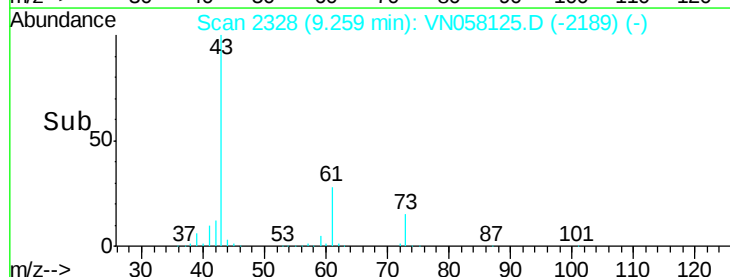


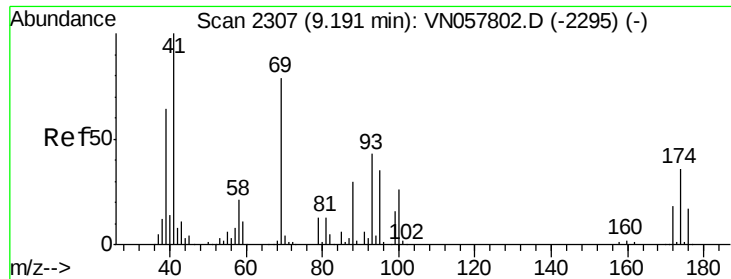
Abundance Ion 62.90 (62.60 to 63.60): VN058125.D (-2328) (-)

Ion 64.90 (64.60 to 65.60): VN058125.D (-2328) (-)



Time-->

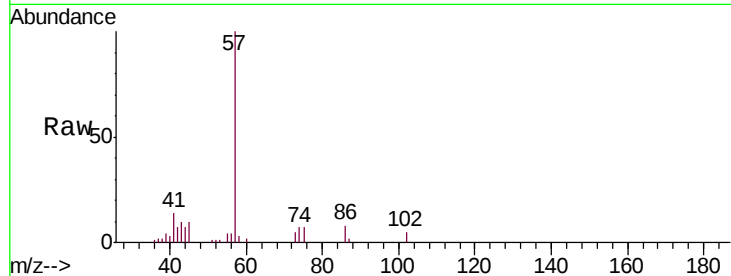




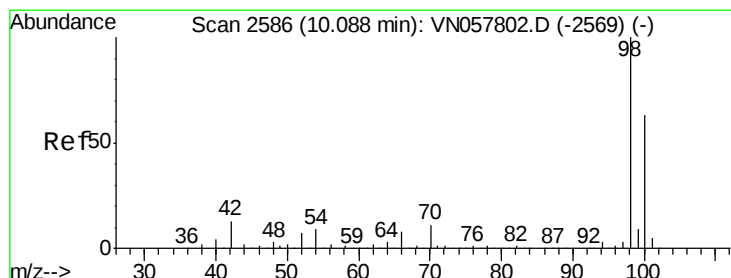
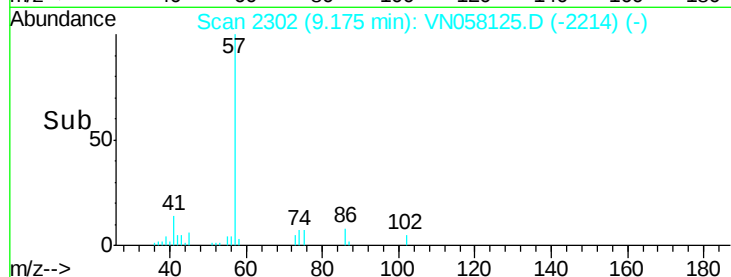
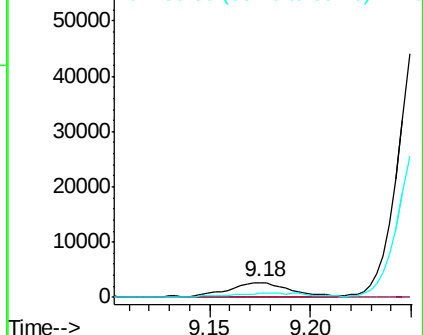
#48
Methyl methacrylate
Concen: 0.871 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Instrument :
MSVOA_N
ClientSampleId :
CSA-2-7

Tgt Ion: 41 Resp: 5043
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

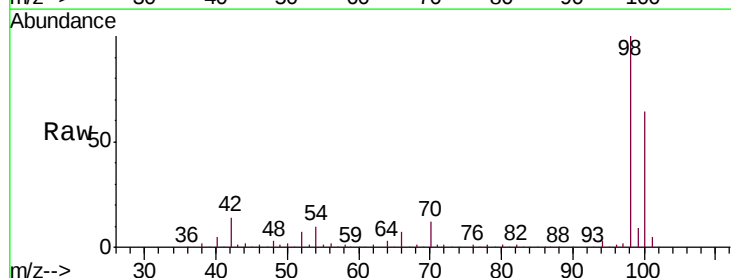


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

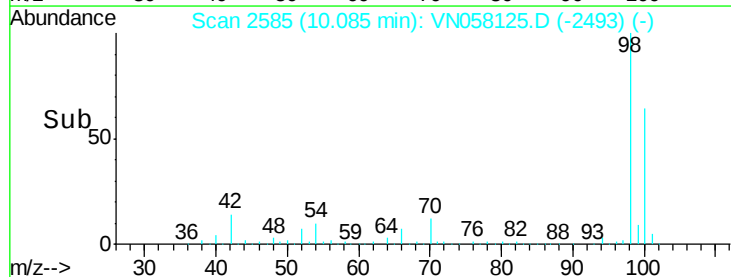
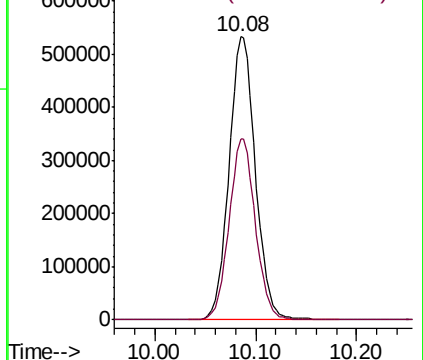


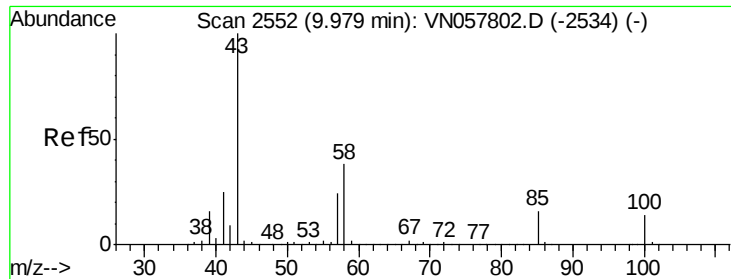
#50
Toluene-d8
Concen: 47.791 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Tgt Ion: 98 Resp: 970328
Ion Ratio Lower Upper
98 100
100 63.8 50.3 75.5



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: 1.135 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampled :

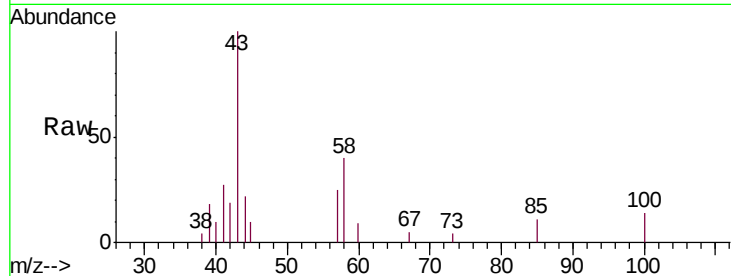
CSA-2-7

Tgt Ion: 43 Resp: 7666

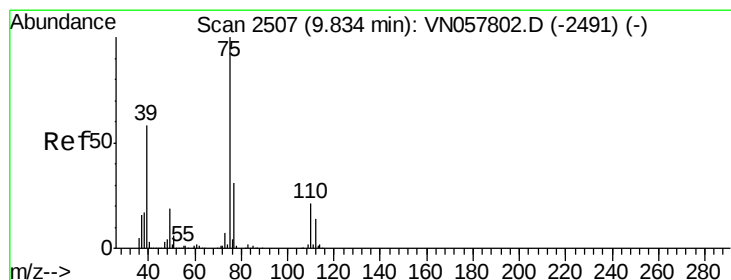
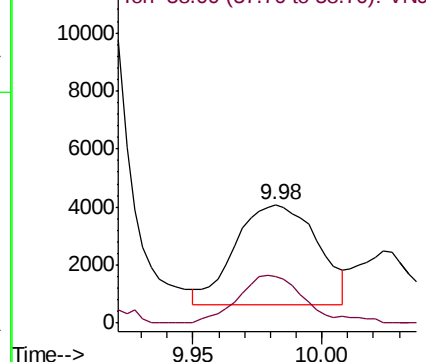
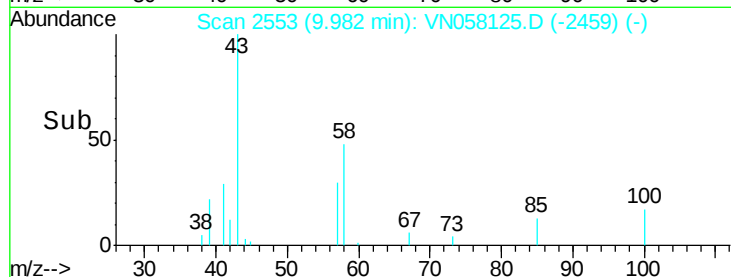
Ion Ratio Lower Upper

43 100

58 39.4 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN058125.D (-2459) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.655 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

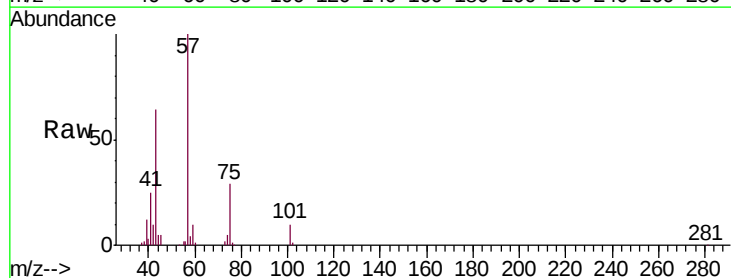
Tgt Ion: 75 Resp: 37598

Ion Ratio Lower Upper

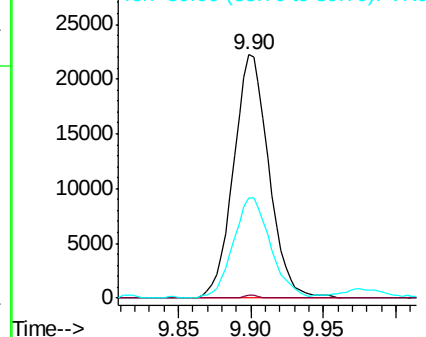
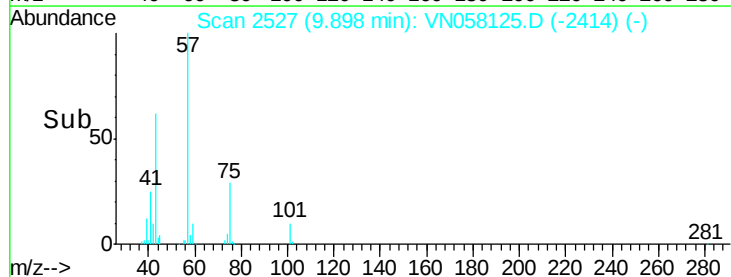
75 100

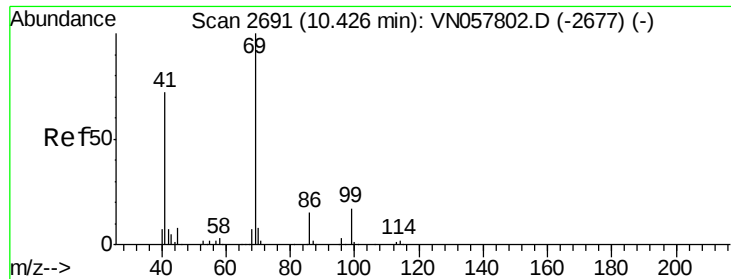
77 1.3 24.8 37.2#

39 41.3 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN058125.D (-2414) (-)





#56

Ethyl methacrylate

Concen: 0.223 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-7

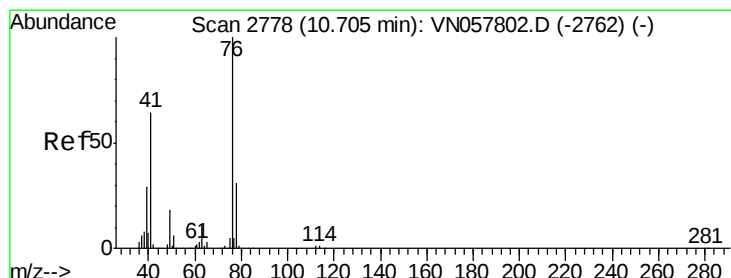
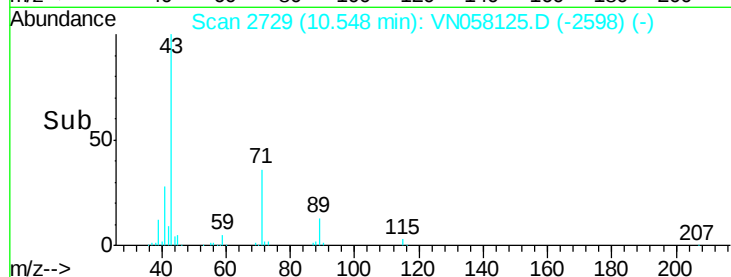
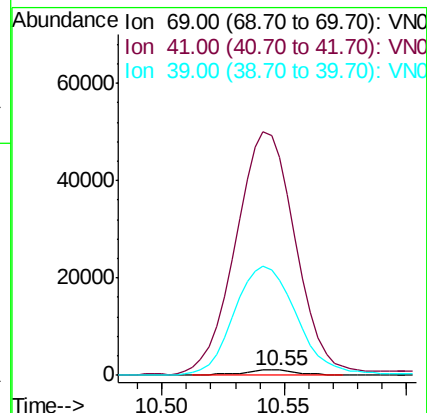
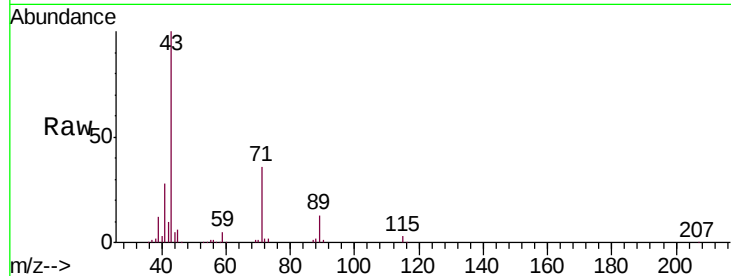
Tgt Ion: 69 Resp: 1770

Ion Ratio Lower Upper

69 100

41 4795.8 56.7 85.1#

39 2268.9 36.3 54.5#



#57

1,3-Dichloropropane

Concen: 0.508 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.05 min

Lab File: VN058125.D

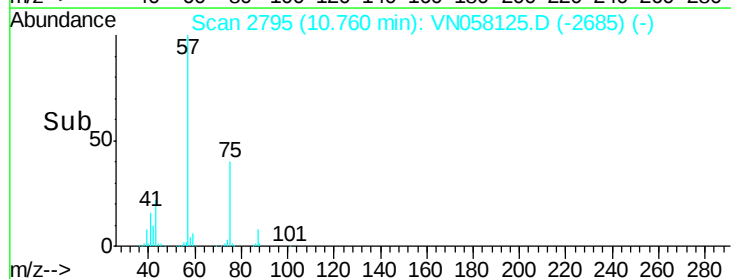
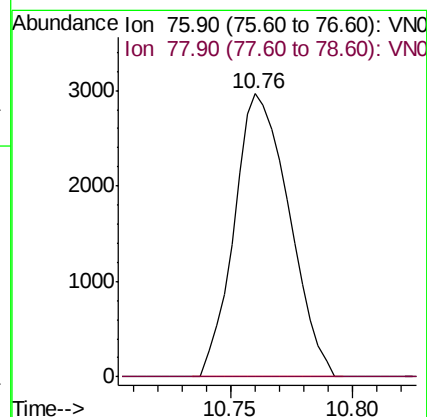
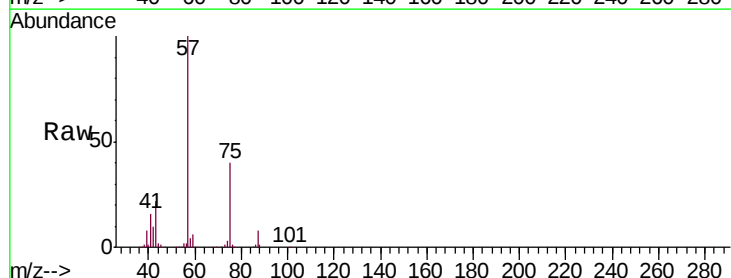
Acq: 16 Sep 2019 17:35

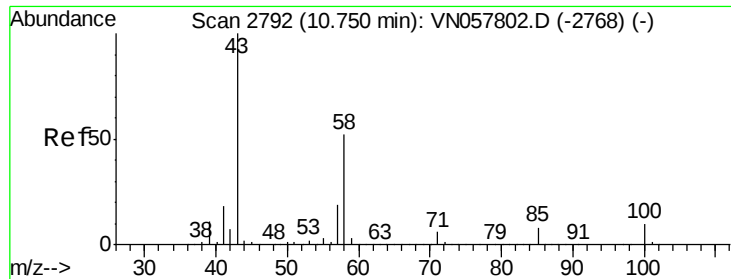
Tgt Ion: 76 Resp: 4623

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#

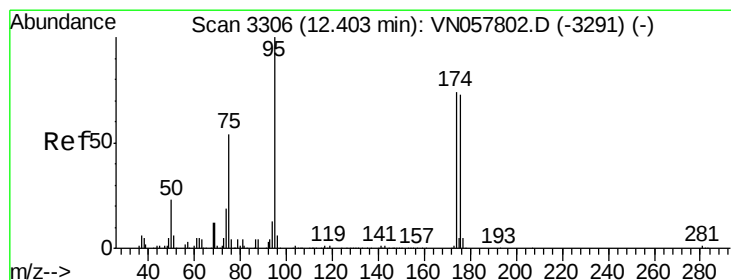
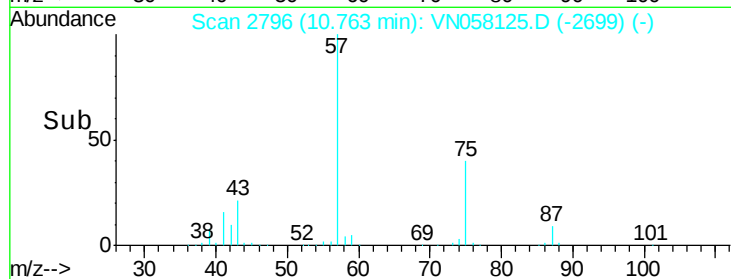
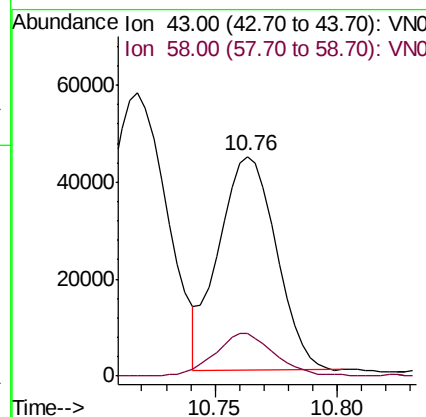
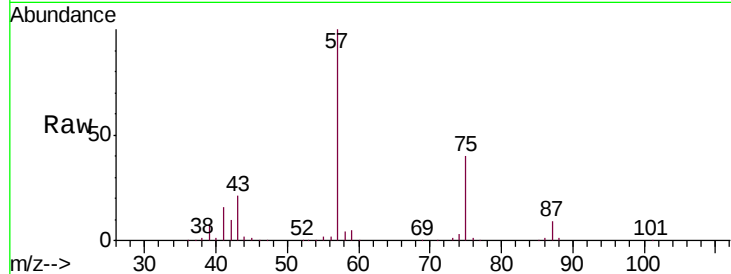




#59
2-Hexanone
Concen: 14.285 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

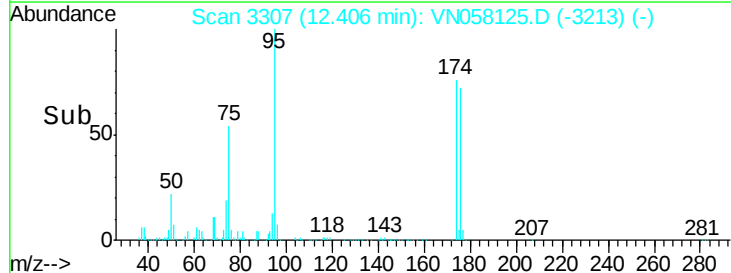
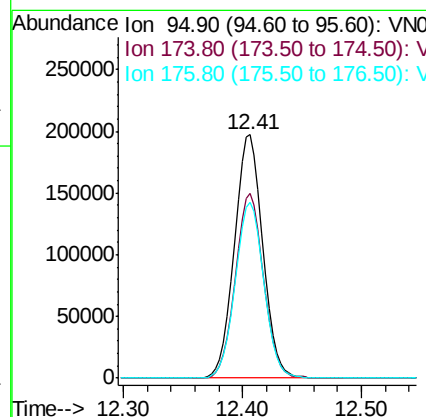
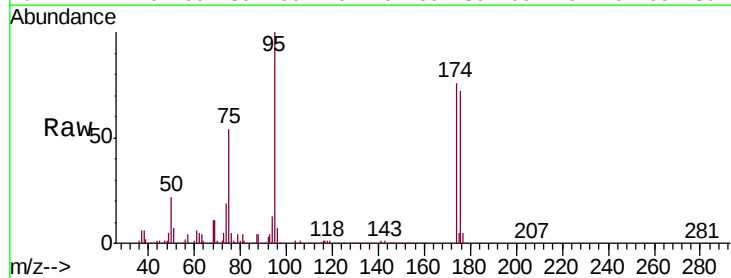
Instrument :
MSVOA_N
ClientSampleId :
CSA-2-7

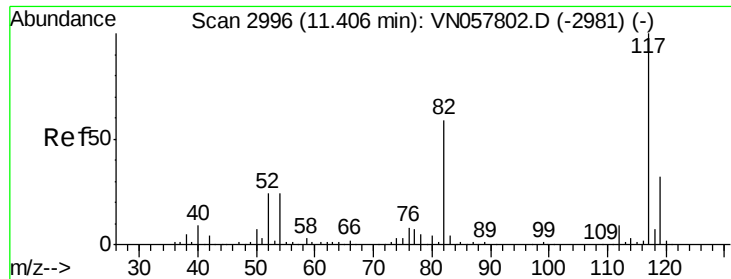
Tgt Ion: 43 Resp: 72338
Ion Ratio Lower Upper
43 100
58 20.8 25.6 76.8#



#62
4-Bromofluorobenzene
Concen: 42.101 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Tgt Ion: 95 Resp: 325755
Ion Ratio Lower Upper
95 100
174 75.4 0.0 150.2
176 72.5 0.0 146.0

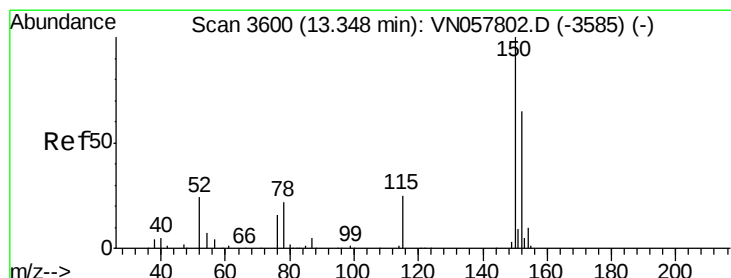
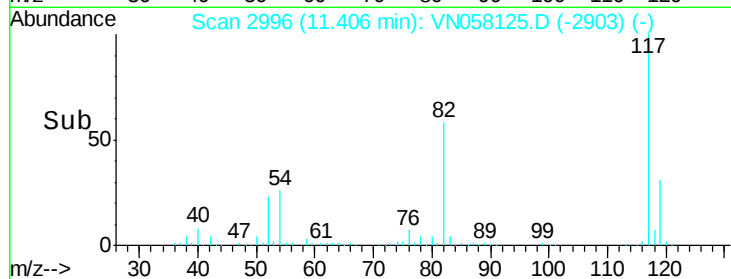
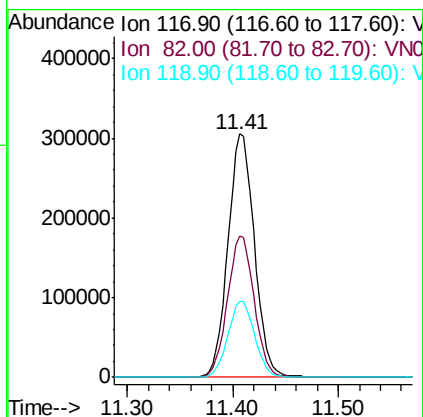
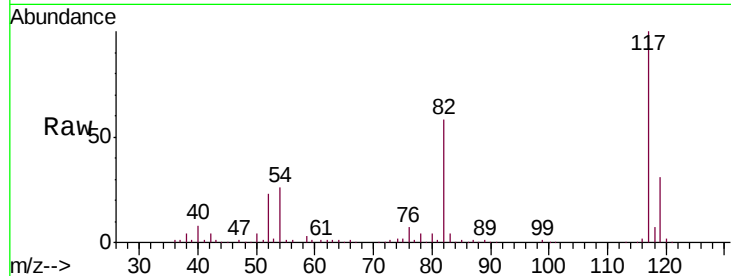




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

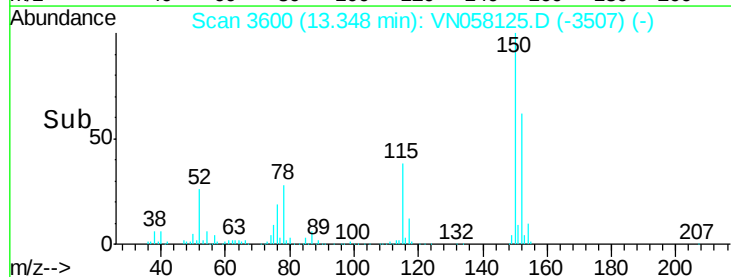
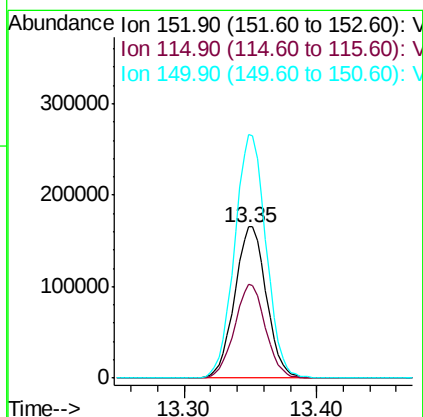
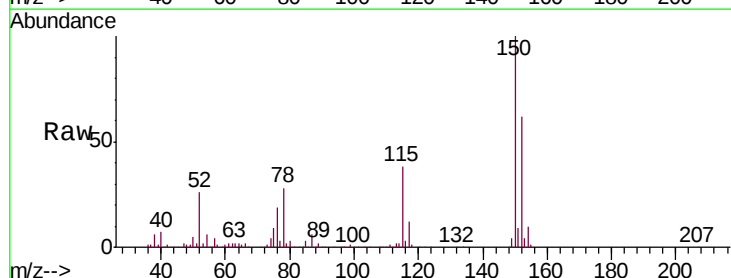
Instrument :
MSVOA_N
ClientSampled :
CSA-2-7

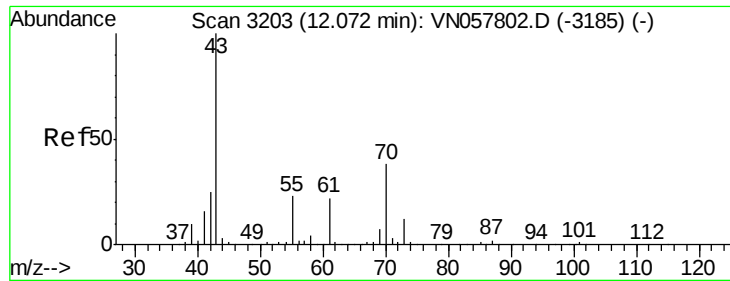
Tgt Ion:117 Resp: 529509
Ion Ratio Lower Upper
117 100
82 58.2 47.2 70.8
119 31.2 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058125.D
Acq: 16 Sep 2019 17:35

Tgt Ion:152 Resp: 274940
Ion Ratio Lower Upper
152 100
115 60.5 30.3 91.0
150 159.6 0.0 352.4





#74

N-amyI acetate

Concen: 0.380 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058125.D

Acq: 16 Sep 2019 17:35

Instrument :

MSVOA_N

ClientSampleId :

CSA-2-7

Tgt Ion: 43 Resp: 3525

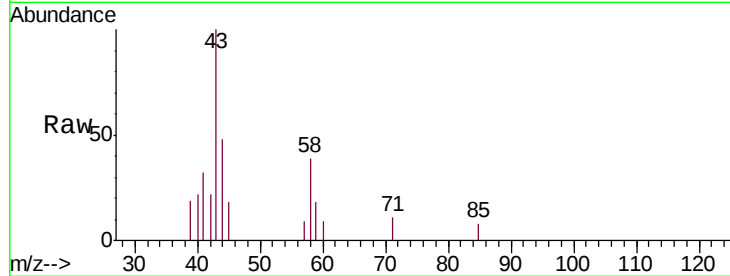
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 1.7 18.6 27.8#

61 0.0 17.4 26.2#

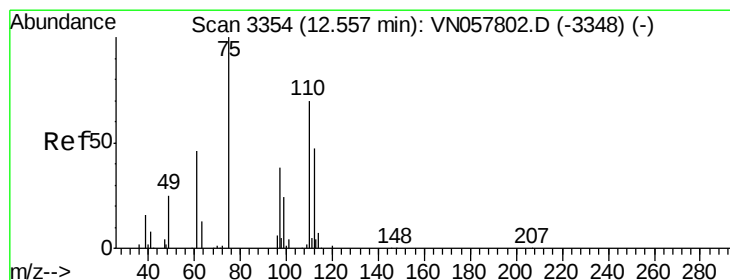
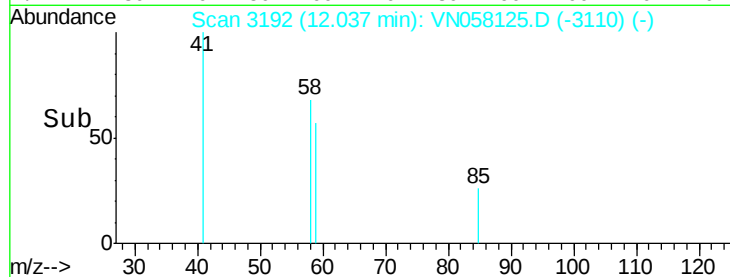
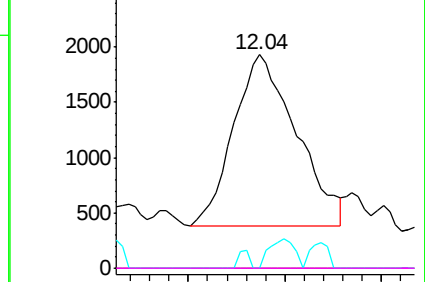


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.708 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058125.D

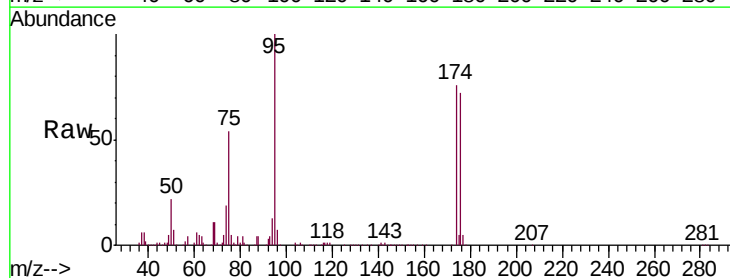
Acq: 16 Sep 2019 17:35

Tgt Ion: 75 Resp: 178551

Ion Ratio Lower Upper

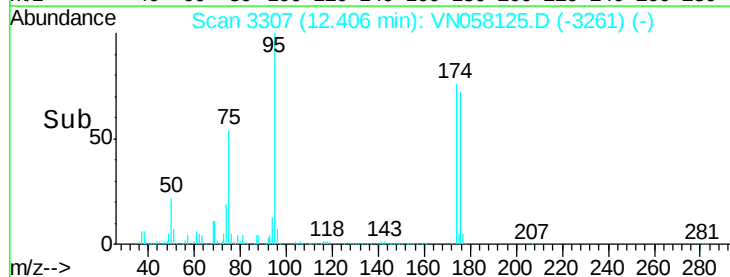
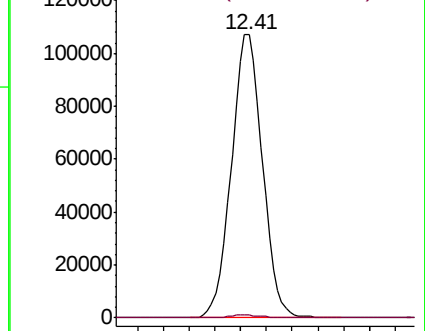
75 100

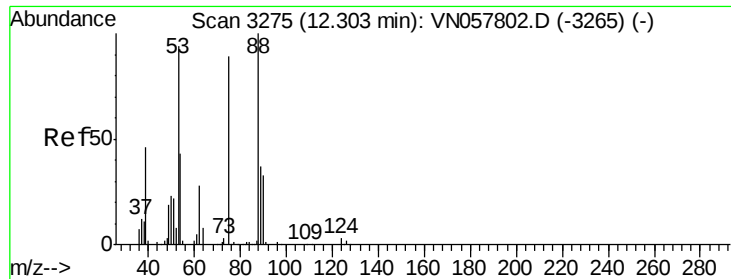
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

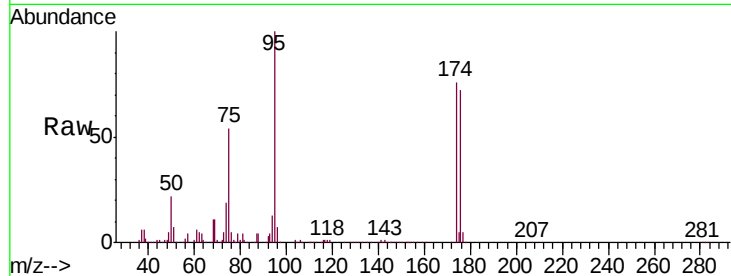




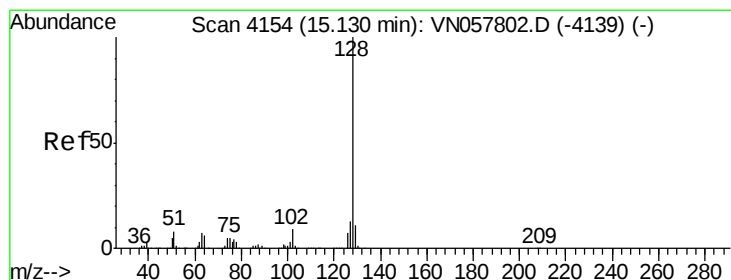
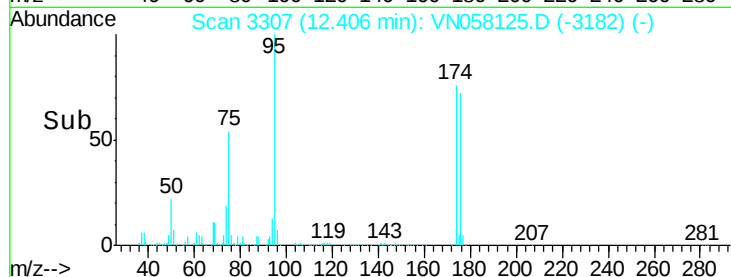
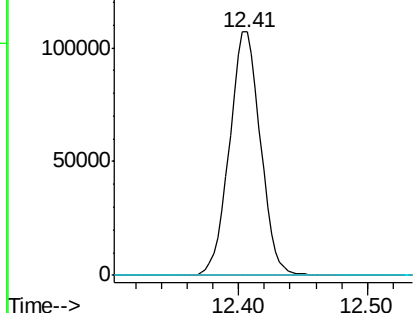
#81
 trans-1,4-Dichloro-2-butene
 Concen: 101.023 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

Instrument :
 MSVOA_N
 ClientSampled :
 CSA-2-7

Tgt Ion: 75 Resp: 178551
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

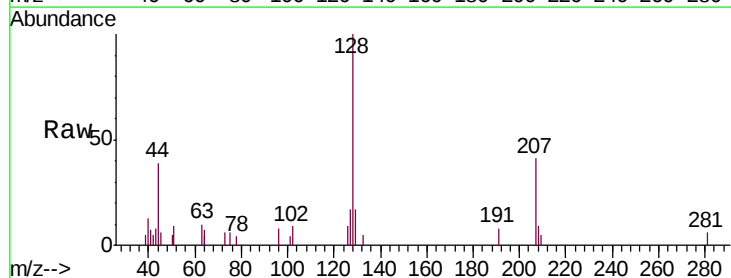


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058125.D
 Acq: 16 Sep 2019 17:35

Tgt Ion: 128 Resp: 6906
 Ion Ratio Lower Upper
 128 100
 127 15.2 10.3 15.5
 129 11.7 8.6 12.8



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

