

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070120\
 Data File : VN062326.D
 Acq On : 2 Jul 2020 6:46
 Operator : JC/MD
 Sample : L3153-41
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-K

Quant Time: Jul 02 08:28:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	190979	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	402783	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	396807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	134531	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	158138	59.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.02%	
35) Dibromofluoromethane	7.55	113	126518	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
50) Toluene-d8	10.06	98	531079	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.38	95	165117	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	

Target Compounds

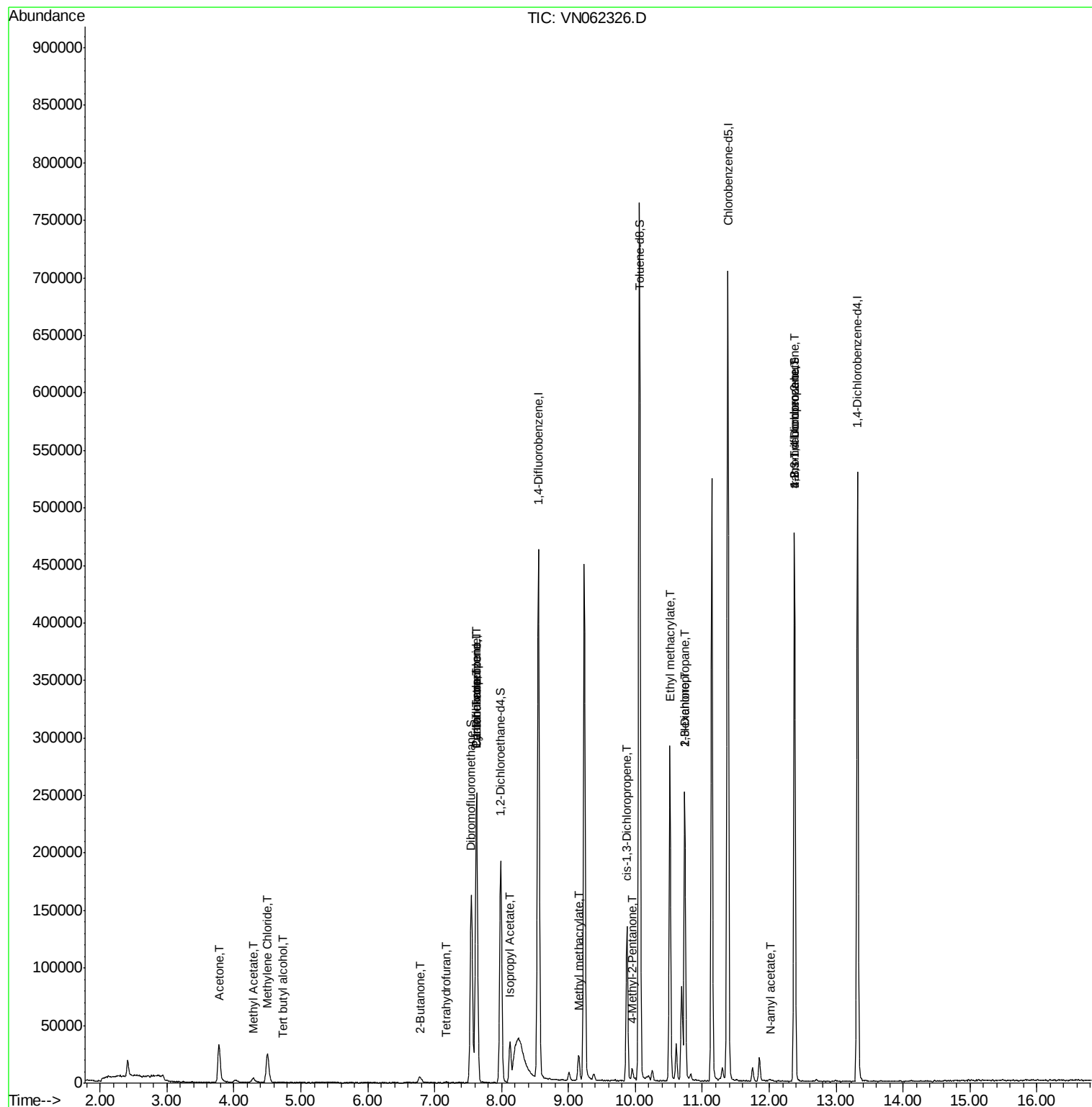
					Qvalue	
3) Chloromethane	2.03	50	260	Below Cal	#	41
11) Tert butyl alcohol	4.74	59	157	0.408	ug/l #	72
16) Acetone	3.78	43	55524	62.972	ug/l	94
18) Methyl Acetate	4.29	43	7302	3.427	ug/l #	66
20) Methylene Chloride	4.51	84	19010	7.543	ug/l	98
25) 2-Butanone	6.80	43	4258	3.250	ug/l #	85
29) Tetrahydrofuran	7.16	42	234	0.273	ug/l #	37
31) Cyclohexane	7.62	56	5439	1.469	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	17491	4.320	ug/l #	43
38) Carbon Tetrachloride	7.63	117	19879	5.208	ug/l #	15
43) Isopropyl Acetate	8.13	43	41154	7.530	ug/l	97
48) Methyl methacrylate	9.15	41	3182	1.299	ug/l #	21
51) 4-Methyl-2-Pentanone	9.95	43	6558	2.054	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	24208	4.959	ug/l #	69
56) Ethyl methacrylate	10.51	69	1523	0.386	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2727	0.535	ug/l #	42
59) 2-Hexanone	10.74	43	32171	13.953	ug/l #	52
74) N-amyl acetate	12.01	43	2425	3.933	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	85224	26.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	85224	78.588	ug/l #	13

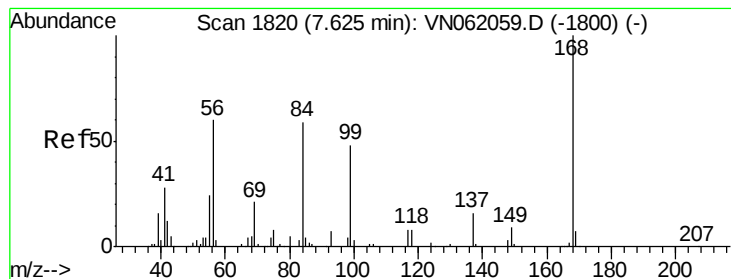
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

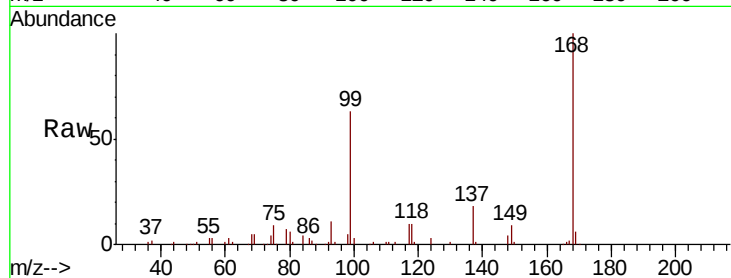
SP2-K

Tot Ion:168 Resp: 190979

Ion Ratio Lower Upper

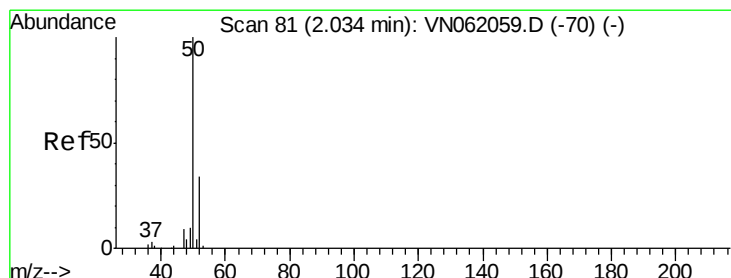
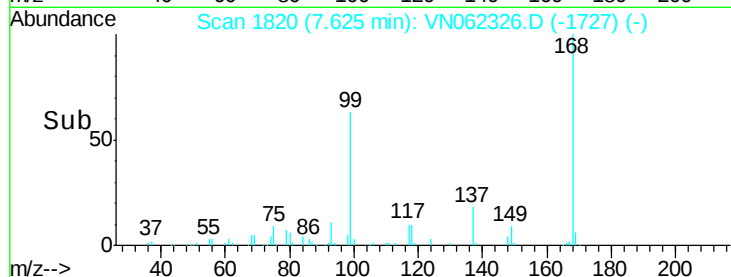
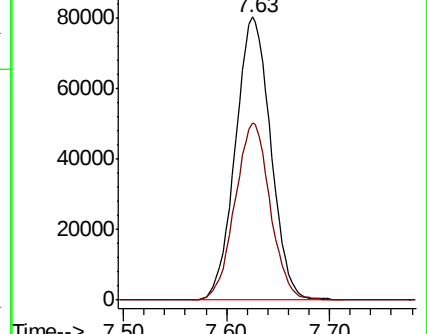
168 100

99 62.6 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062326.D

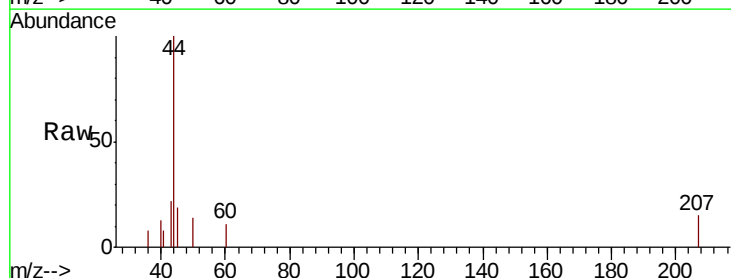
Acq: 2 Jul 2020 6:46

Tgt Ion: 50 Resp: 260

Ion Ratio Lower Upper

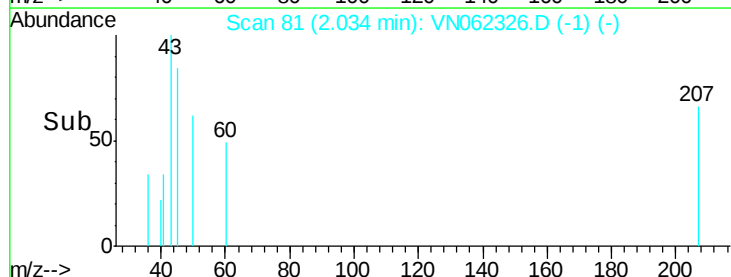
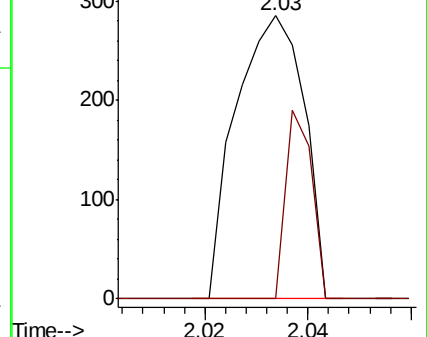
50 100

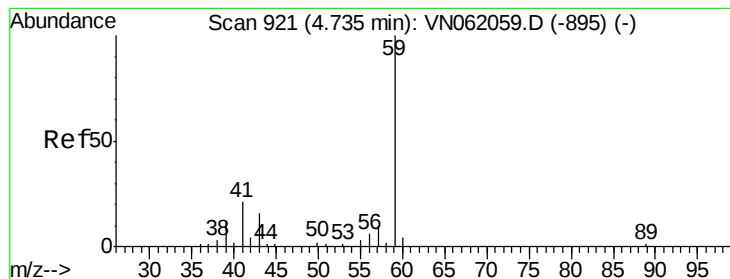
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



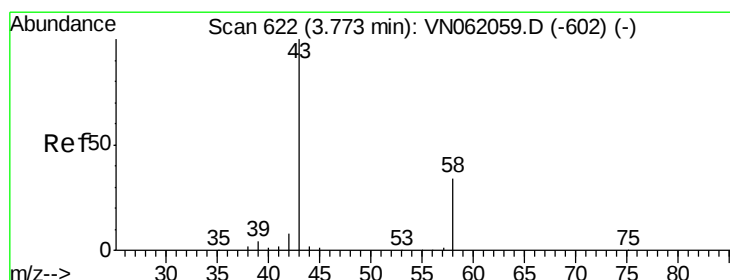
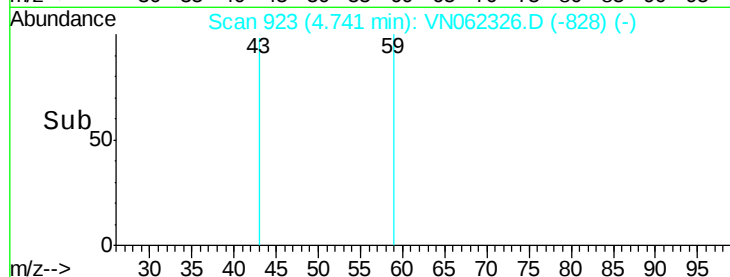
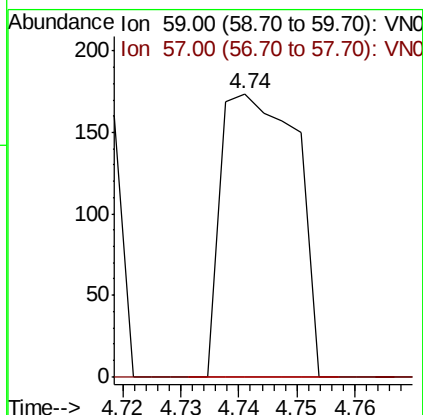
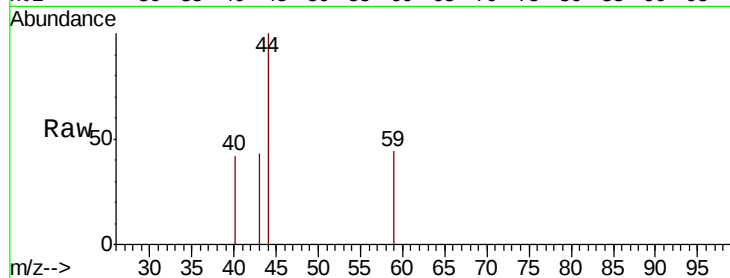


#11

Tert butyl alcohol
 Concen: 0.408 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-K

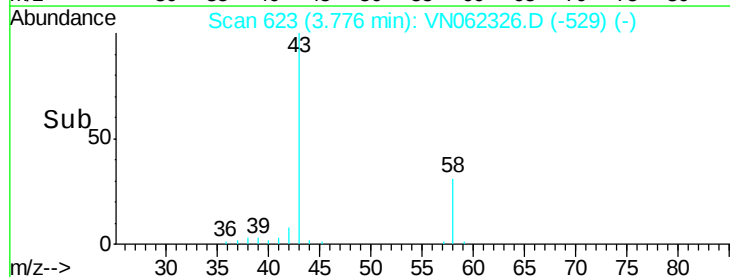
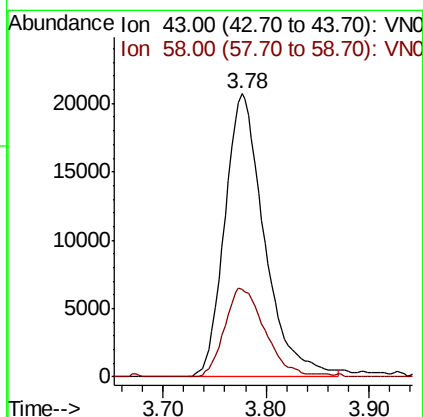
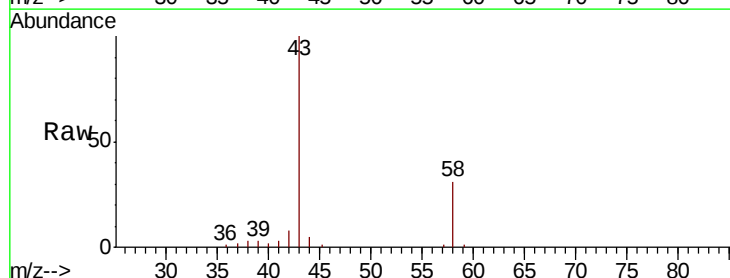
Tot Ion: 59 Resp: 157
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



#16

Acetone
 Concen: 62.972 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

Tgt Ion: 43 Resp: 55524
 Ion Ratio Lower Upper
 43 100
 58 30.9 27.5 41.3

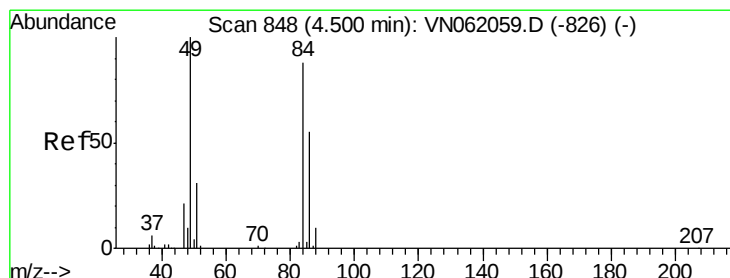
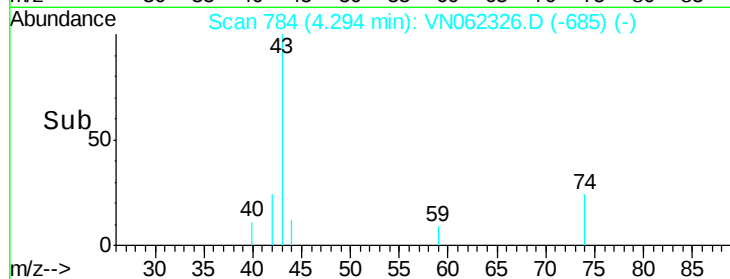
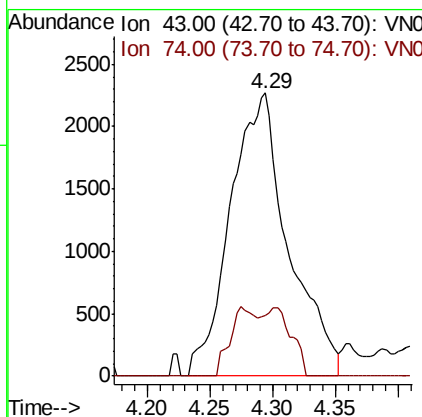
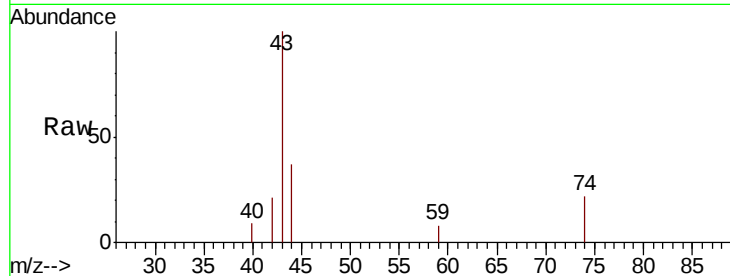




#18
Methyl Acetate
Concen: 3.427 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.02 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

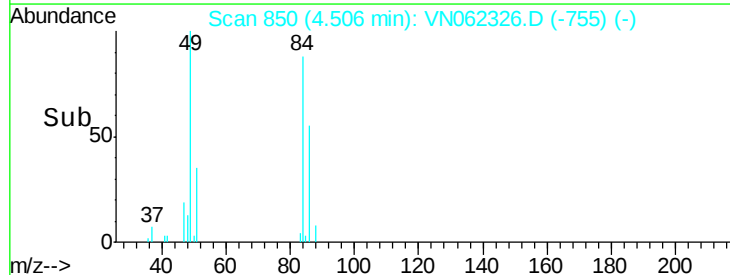
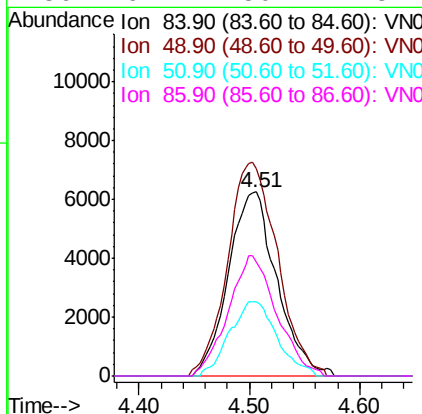
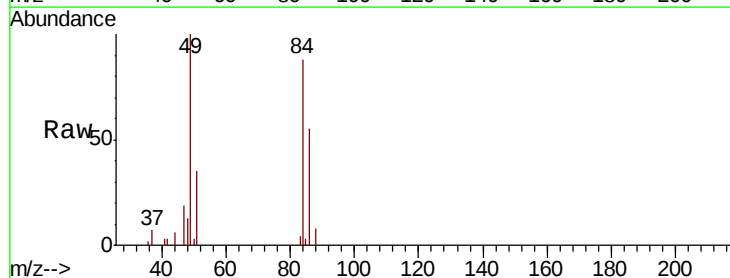
Instrument :
MSVOA_N
ClientSampled :
SP2-K

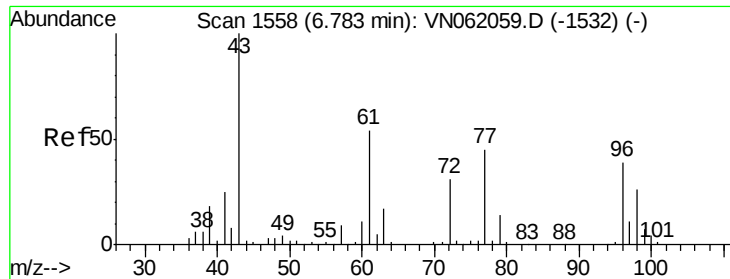
Tot Ion: 43 Resp: 7302
Ion Ratio Lower Upper
43 100
74 10.8 22.9 34.3#



#20
Methylene Chloride
Concen: 7.543 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

Tgt Ion: 84 Resp: 19010
Ion Ratio Lower Upper
84 100
49 113.1 90.6 136.0
51 40.1 27.8 41.8
86 62.1 50.1 75.1

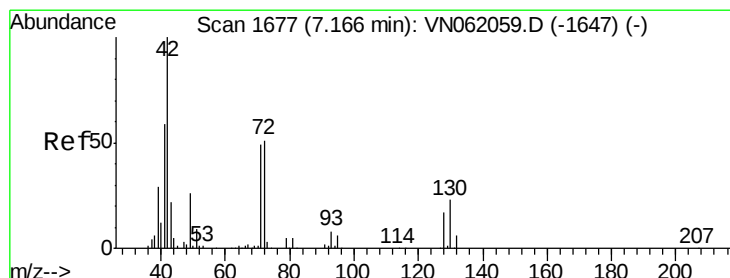
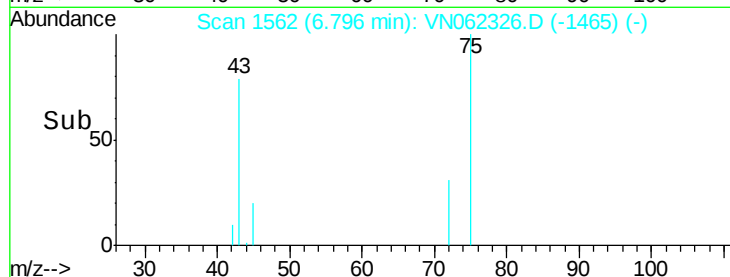
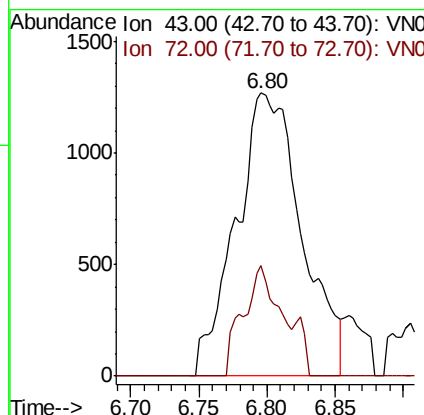
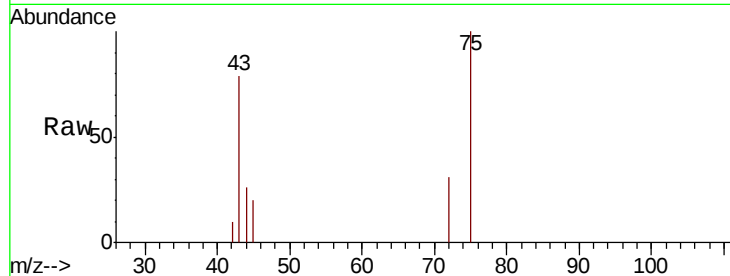




#25
2-Butanone
Concen: 3.250 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

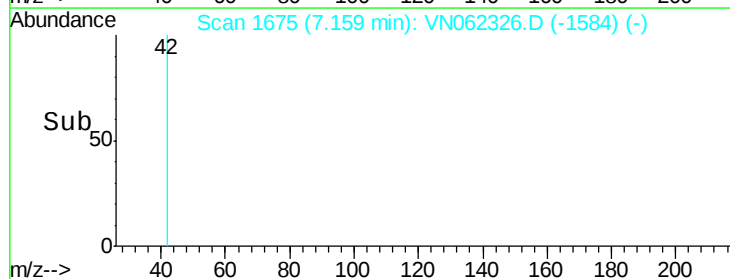
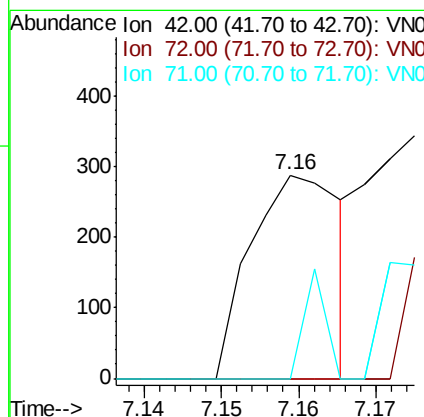
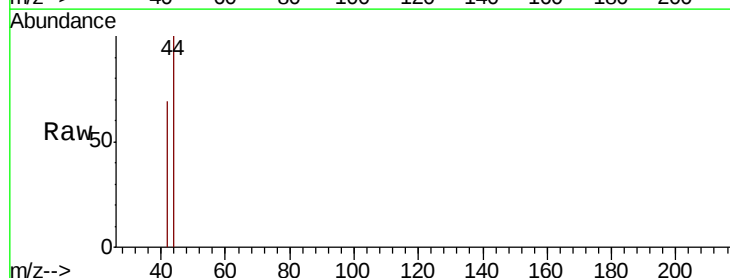
Instrument :
MSVOA_N
ClientSampled :
SP2-K

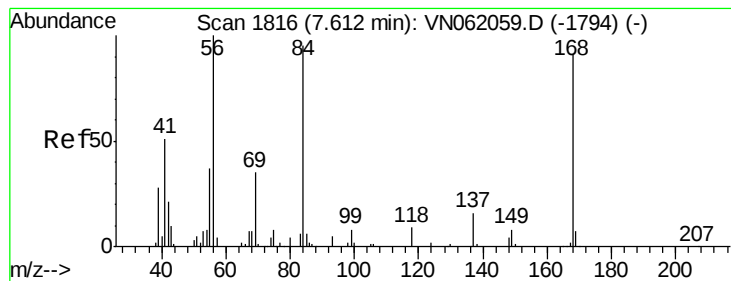
Tot Ion: 43 Resp: 4258
Ion Ratio Lower Upper
43 100
72 39.2 24.8 37.2#



#29
Tetrahydrofuran
Concen: 0.273 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.01 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

Tgt Ion: 42 Resp: 234
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 12.8 38.2 57.4#





#31

Cyclohexane

Concen: 1.469 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

SP2-K

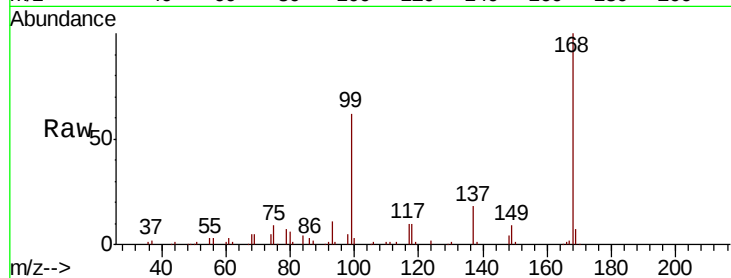
Tot Ion: 56 Resp: 5439

Ion Ratio Lower Upper

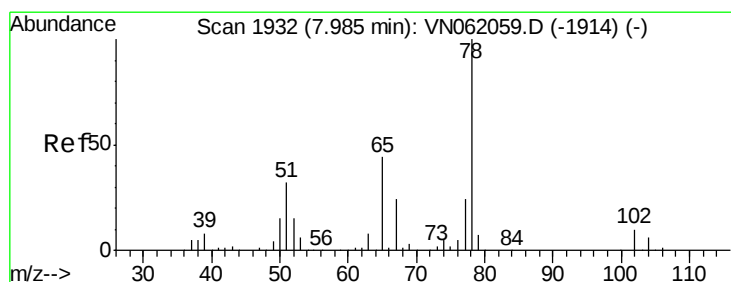
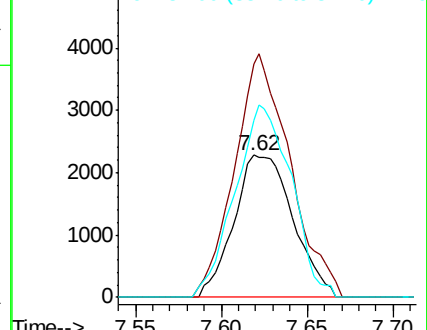
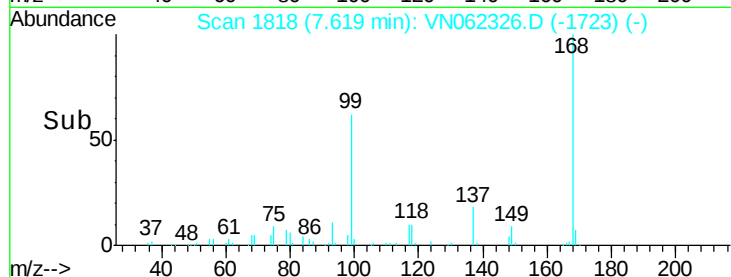
56 100

69 163.7 28.0 42.0#

84 124.4 76.1 114.1#



Abundance Ion 56.00 (55.70 to 56.70): VN062326.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 59.005 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062326.D

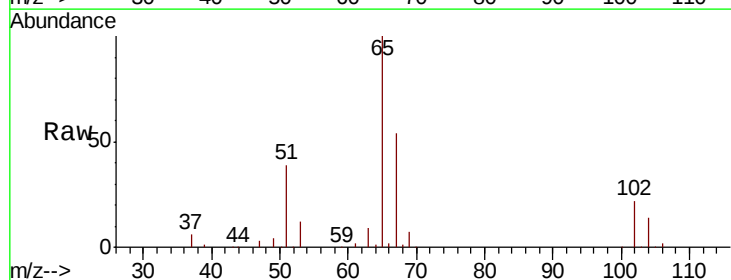
Acq: 2 Jul 2020 6:46

Tgt Ion: 65 Resp: 158138

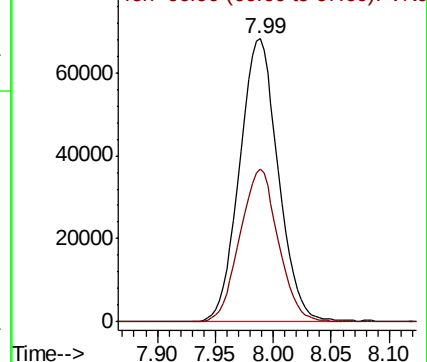
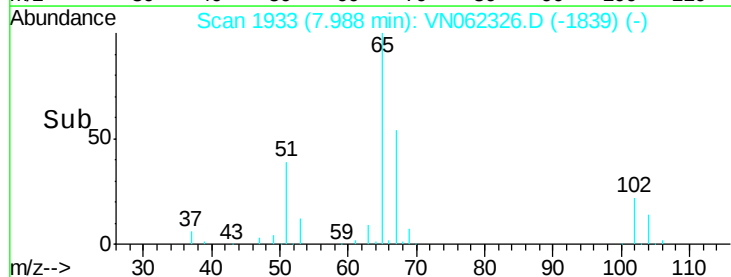
Ion Ratio Lower Upper

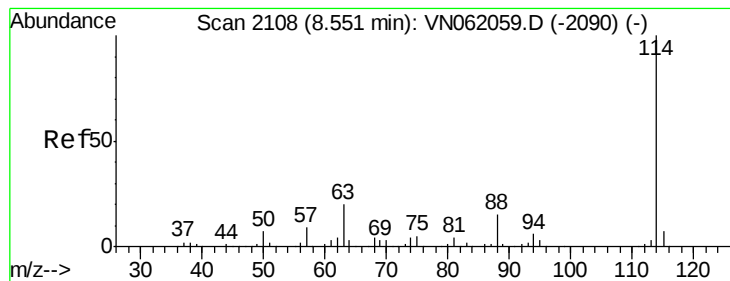
65 100

67 53.5 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN062326.D (-1839) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

SP2-K

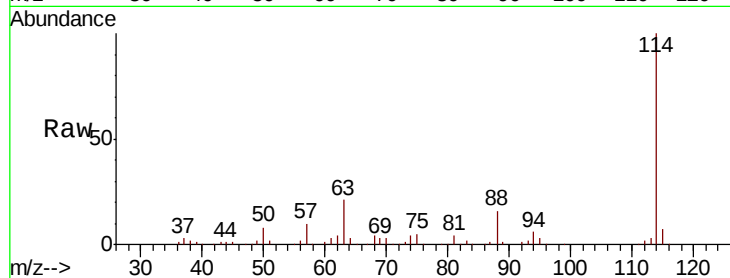
Tot Ion:114 Resp: 402783

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.2

88 16.0 0.0 30.8



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

8.55

250000

200000

150000

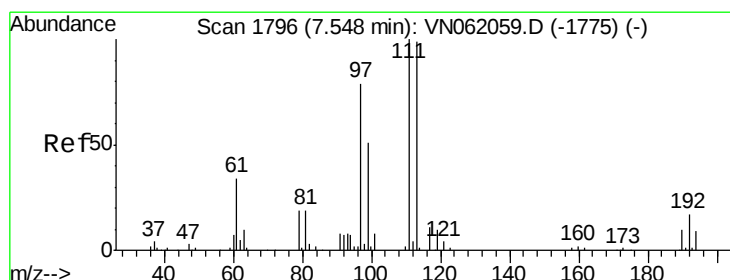
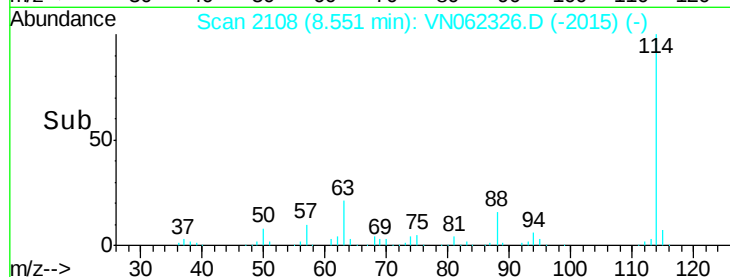
100000

50000

0

8.45 8.50 8.55 8.60 8.65

Time-->



#35

Dibromofluoromethane

Concen: 48.961 ug/l

RT: 7.55 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

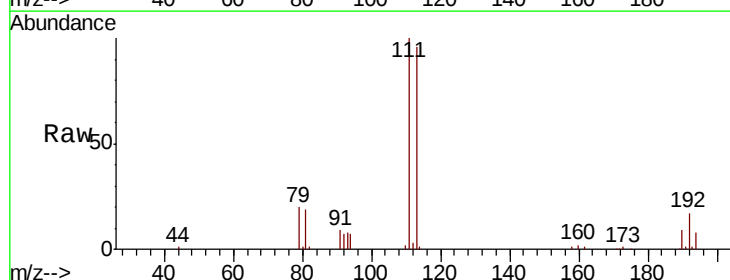
Tgt Ion:113 Resp: 126518

Ion Ratio Lower Upper

113 100

111 103.9 82.2 123.4

192 16.8 14.0 21.0



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

7.55

60000

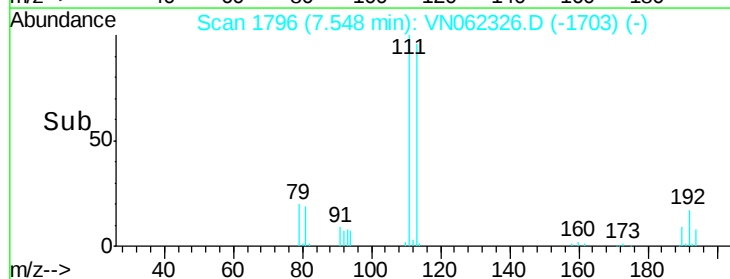
40000

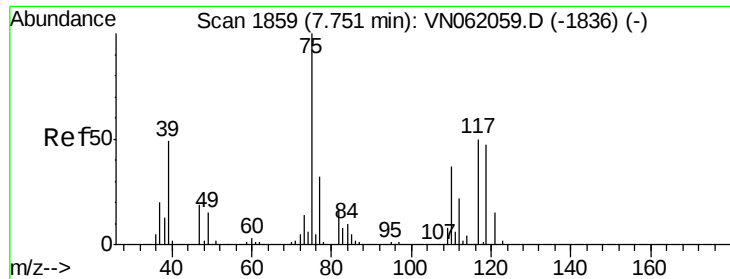
20000

0

7.45 7.50 7.55 7.60 7.65

Time-->

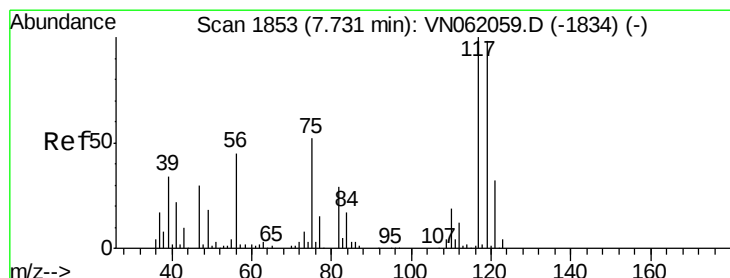
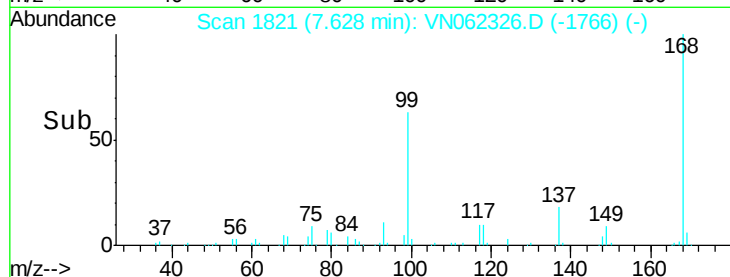
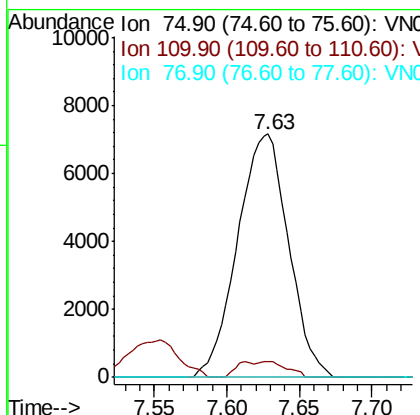
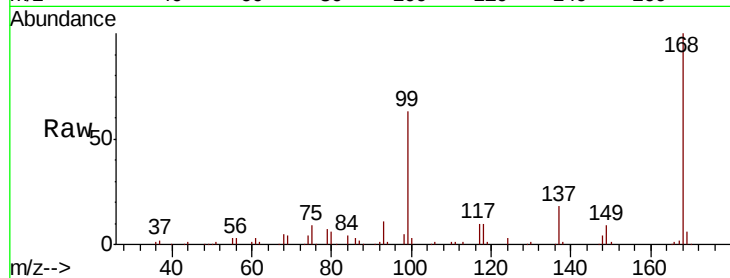




#36
 1,1-Dichloropropene
 Concen: 4.320 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

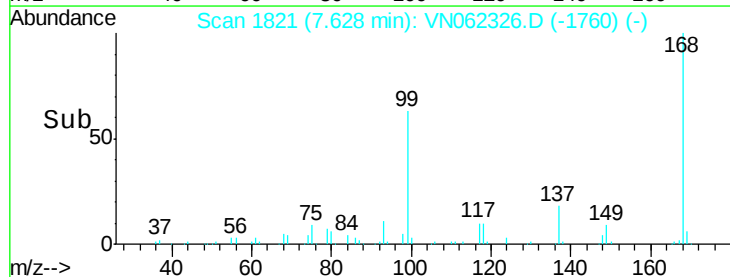
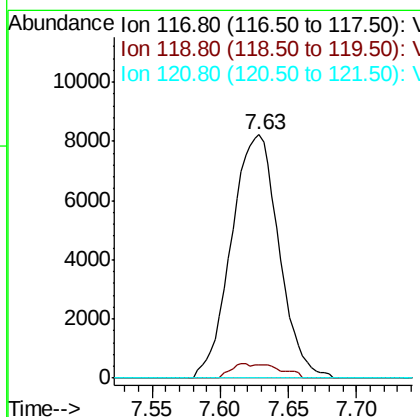
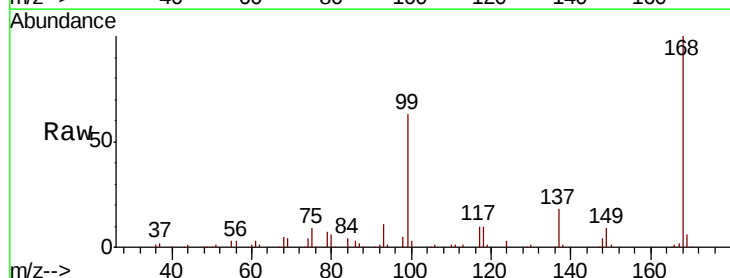
Instrument :
 MSVOA_N
 ClientSampleId :
 SP2-K

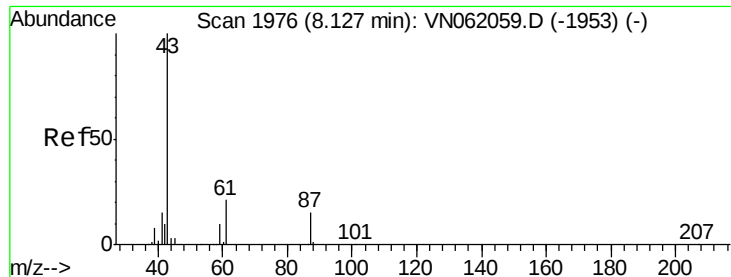
Tot Ion	75	Resp	17491
Ion Ratio	Lower	Upper	
75	100		
110	2.4	17.9	53.8#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.208 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.10 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

Tgt Ion	117	Resp	19879
Ion Ratio	Lower	Upper	
117	100		
119	5.5	78.2	117.2#
121	0.0	25.8	38.6#





#43

Isopropyl Acetate

Concen: 7.530 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampleId :

SP2-K

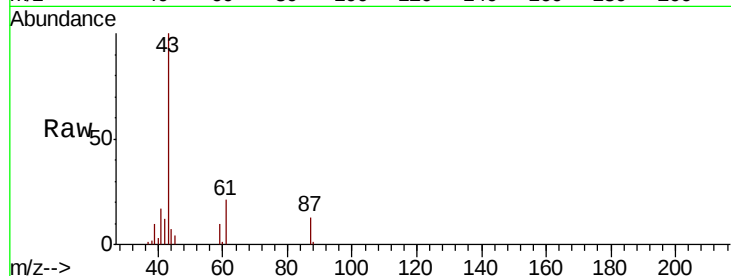
Tot Ion: 43 Resp: 41154

Ion Ratio Lower Upper

43 100

61 20.3 17.2 25.8

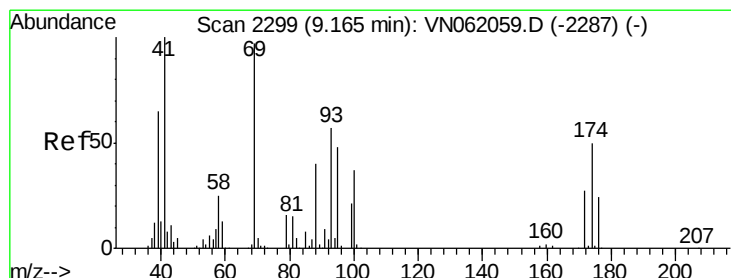
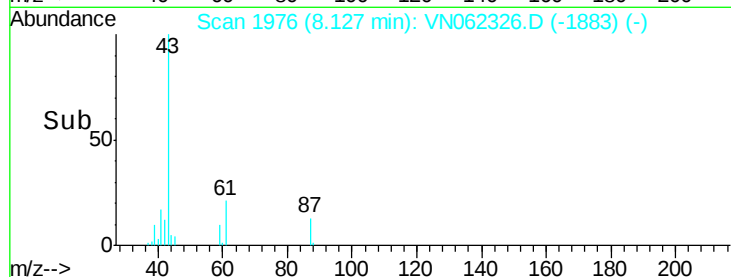
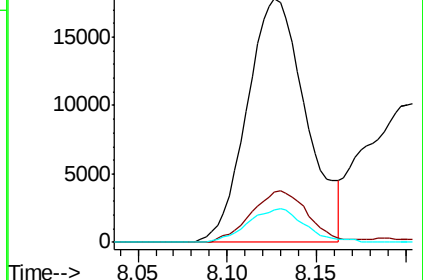
87 13.4 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062326.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062326.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062326.D (-1883) (-)



#48

Methyl methacrylate

Concen: 1.299 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

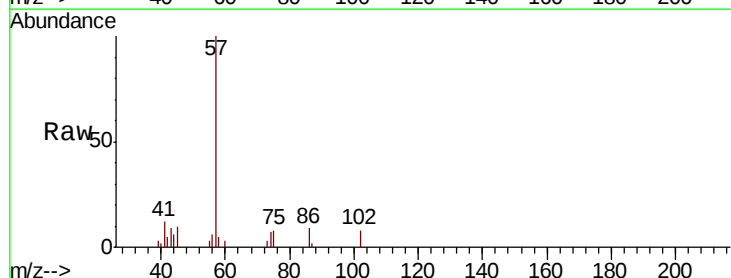
Tgt Ion: 41 Resp: 3182

Ion Ratio Lower Upper

41 100

69 0.0 80.7 121.1#

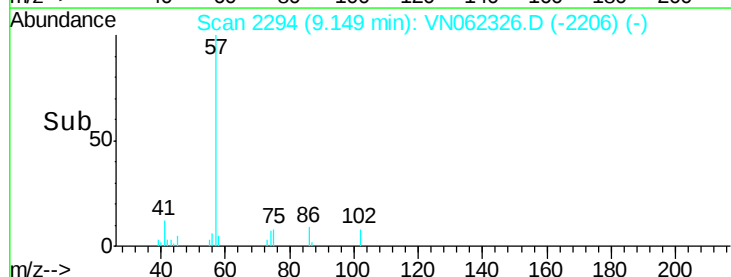
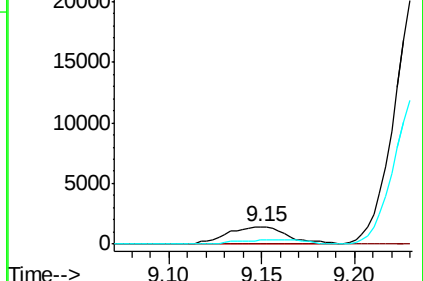
39 29.0 54.5 81.7#

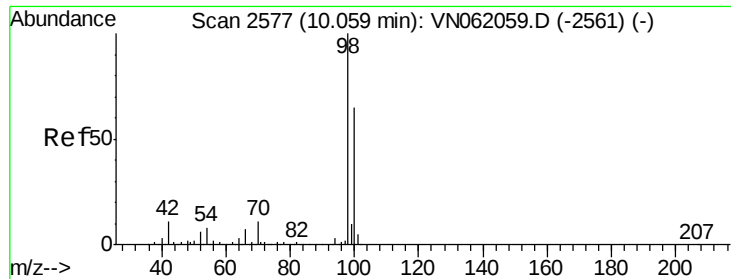


Abundance Ion 41.00 (40.70 to 41.70): VN062326.D (-2206) (-)

Ion 69.00 (68.70 to 69.70): VN062326.D (-2206) (-)

Ion 39.00 (38.70 to 39.70): VN062326.D (-2206) (-)





#50

Toluene-d8

Concen: 51.415 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

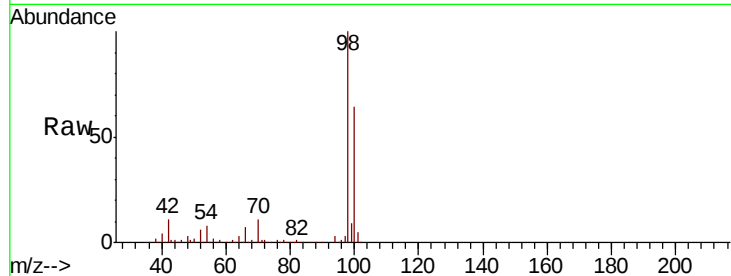
SP2-K

Tot Ion: 98 Resp: 531079

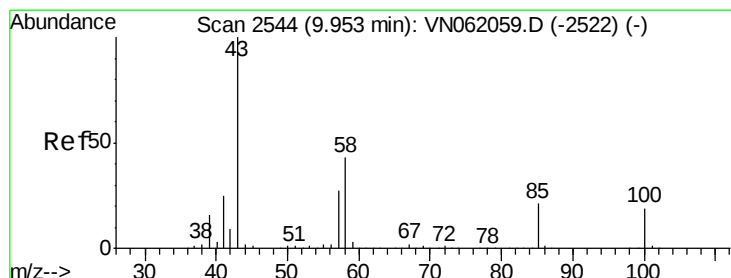
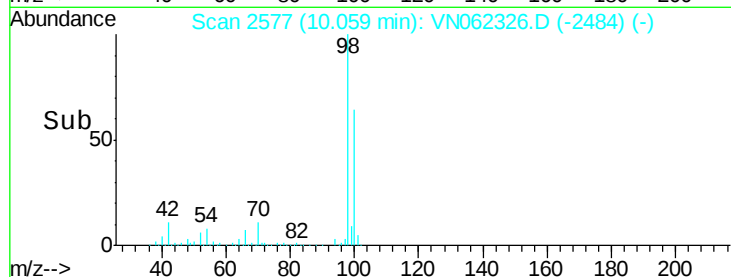
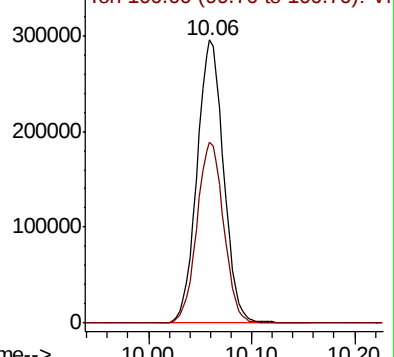
Ion Ratio Lower Upper

98 100

100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN062059.D (-2561) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.054 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062326.D

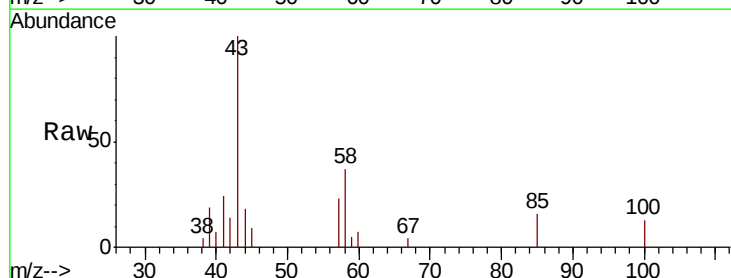
Acq: 2 Jul 2020 6:46

Tgt Ion: 43 Resp: 6558

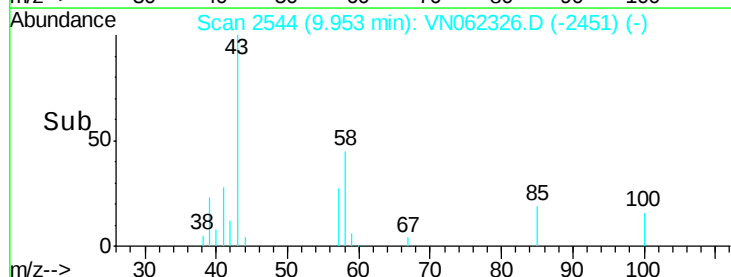
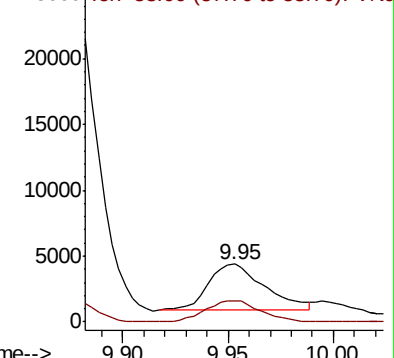
Ion Ratio Lower Upper

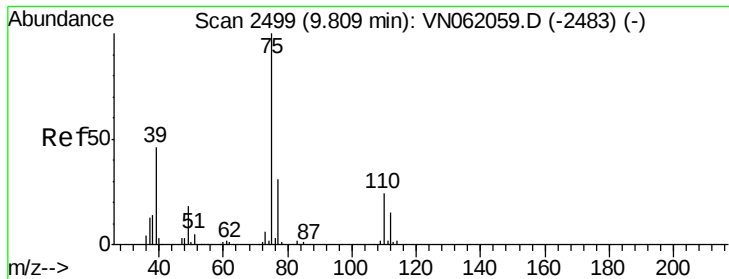
43 100

58 44.6 34.2 51.2



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-2522) (-)

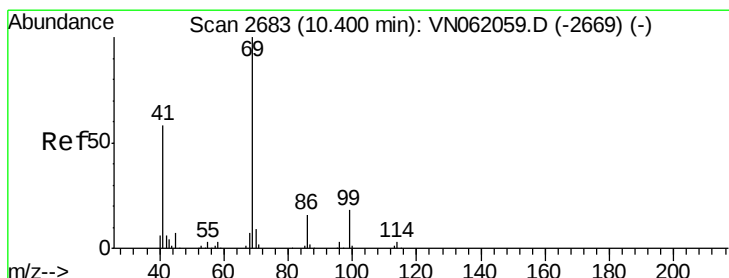
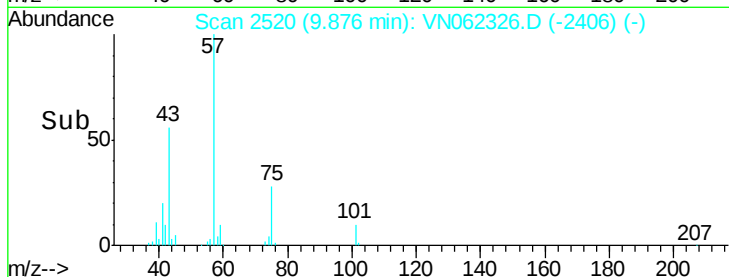
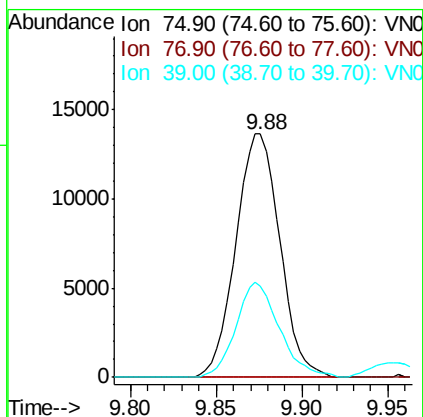
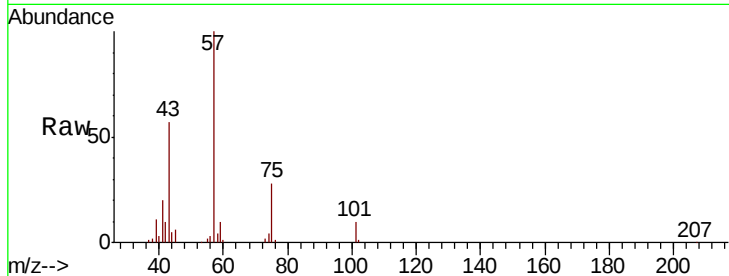




#54
 cis-1,3-Dichloropropene
 Concen: 4.959 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

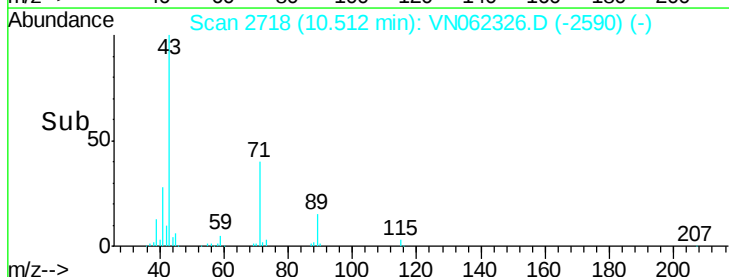
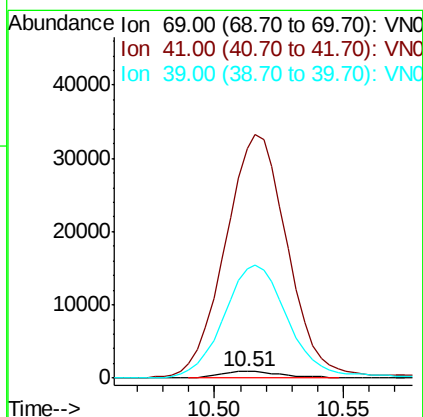
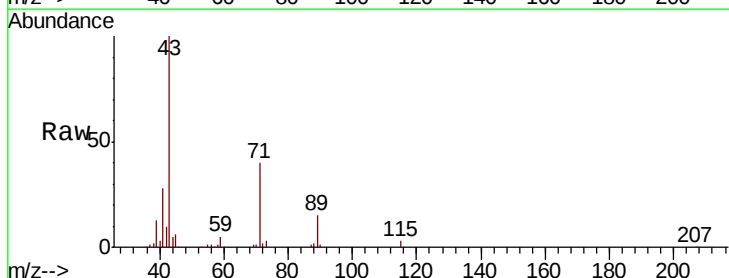
Instrument :
 MSVOA_N
 ClientSampled :
 SP2-K

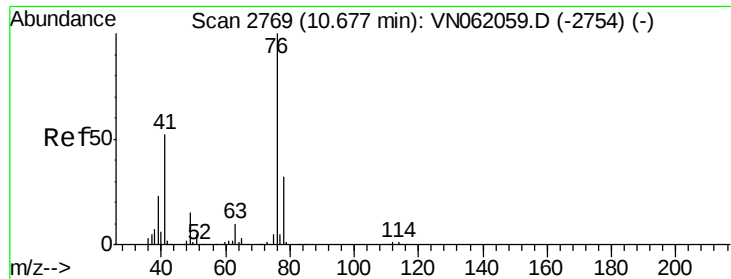
Tot Ion: 75 Resp: 24208
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 37.4 36.9 55.3



#56
 Ethyl methacrylate
 Concen: 0.386 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

Tgt Ion: 69 Resp: 1523
 Ion Ratio Lower Upper
 69 100
 41 3706.0 46.6 70.0#
 39 1768.9 31.0 46.4#

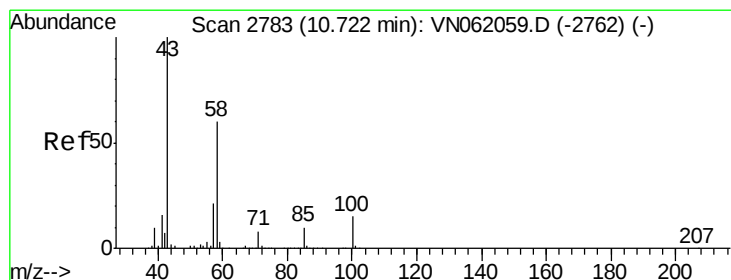
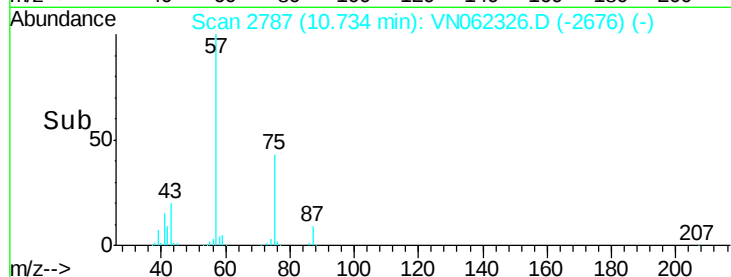
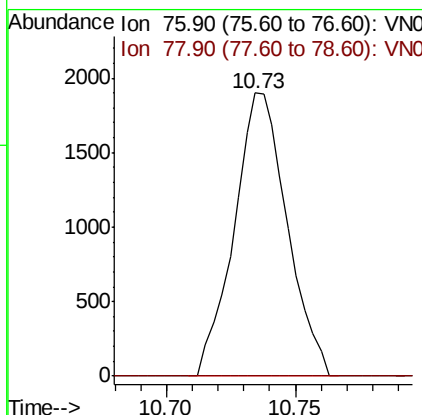
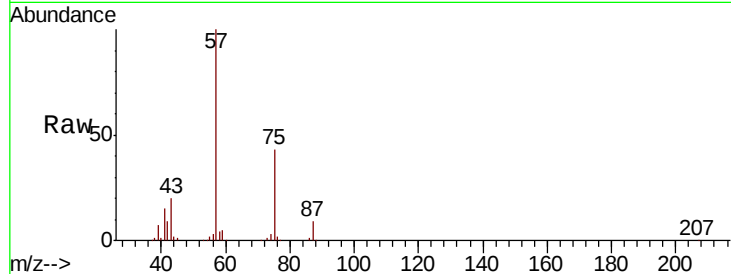




#57
 1,3-Dichloropropane
 Concen: 0.535 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

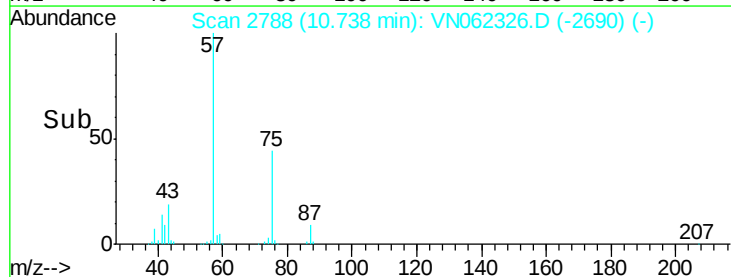
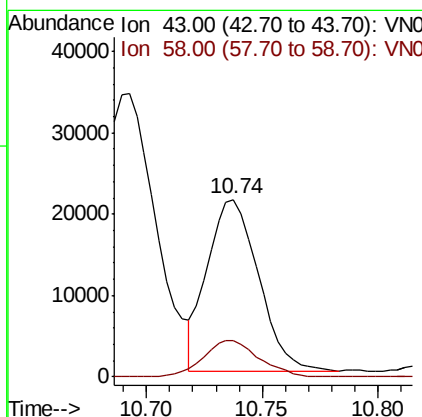
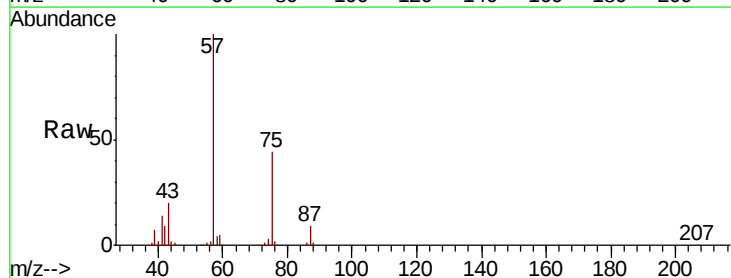
Instrument :
 MSVOA_N
 ClientSampled :
 SP2-K

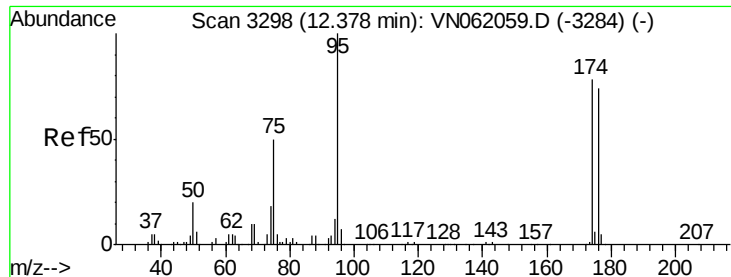
Tot Ion: 76 Resp: 2727
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 13.953 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062326.D
 Acq: 2 Jul 2020 6:46

Tgt Ion: 43 Resp: 32171
 Ion Ratio Lower Upper
 43 100
 58 23.2 29.5 88.5#

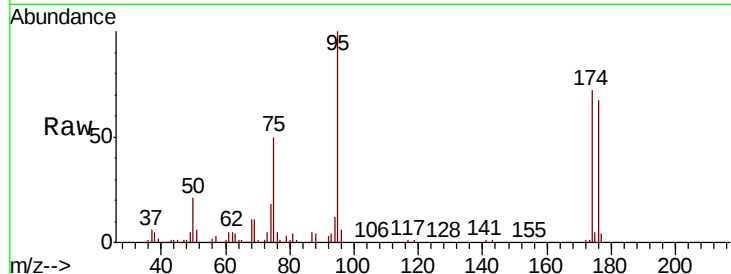




#62
4-Bromofluorobenzene
Concen: 47.314 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

Instrument :
MSVOA_N
ClientSampled :
SP2-K

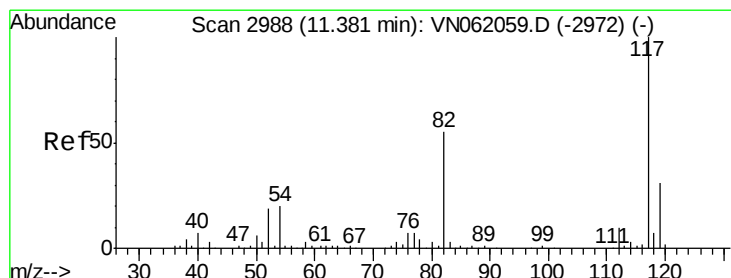
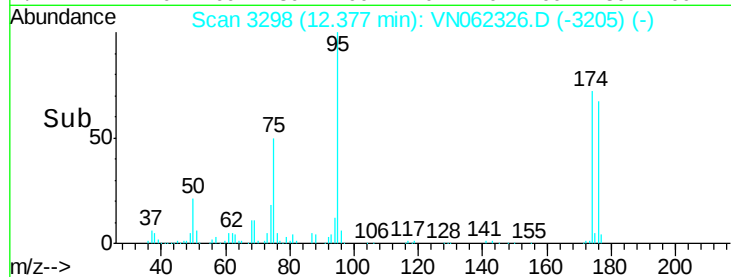
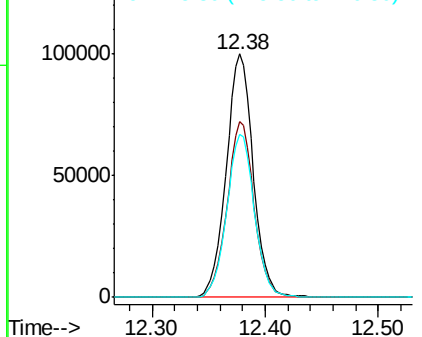
Tot Ion	Ratio	Lower	Upper
95	100		
174	72.2	0.0	154.8
176	68.8	0.0	147.4



Abundance Ion 94.90 (94.60 to 95.60): VN062059.D (-3284) (-)

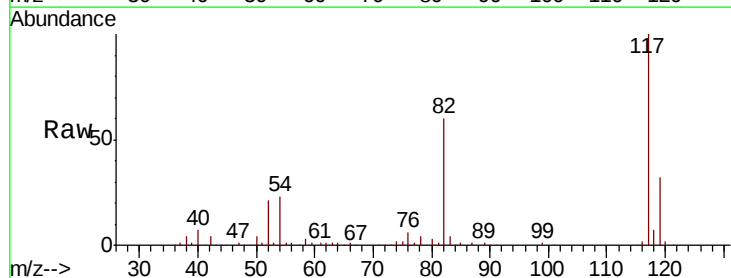
Ion 173.80 (173.50 to 174.50): VN062059.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN062059.D (-3284) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062326.D
Acq: 2 Jul 2020 6:46

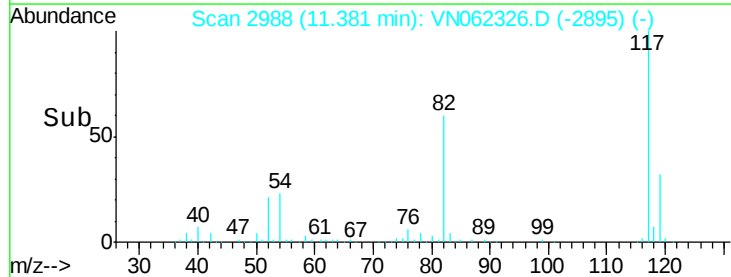
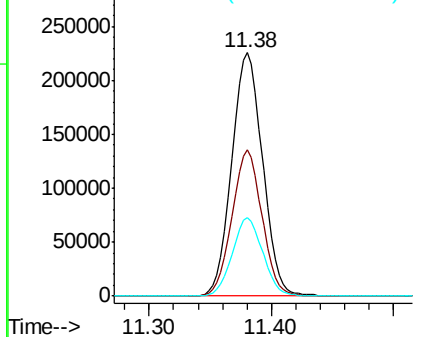
Tgt Ion	Ratio	Lower	Upper
117	100		
82	59.9	43.8	65.8
119	32.0	25.2	37.8

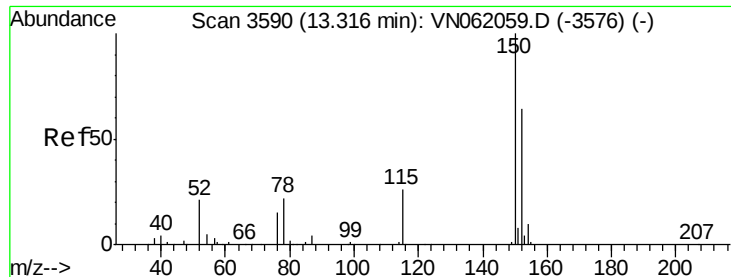


Abundance Ion 116.90 (116.60 to 117.60): VN062059.D (-2972) (-)

Ion 82.00 (81.70 to 82.70): VN062059.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN062059.D (-2972) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

SP2-K

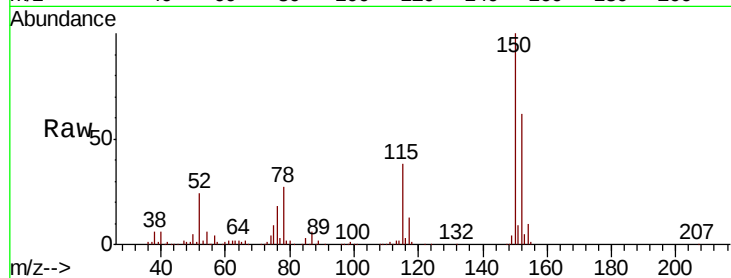
Tot Ion:152 Resp: 134531

Ion Ratio Lower Upper

152 100

115 61.5 29.5 88.5

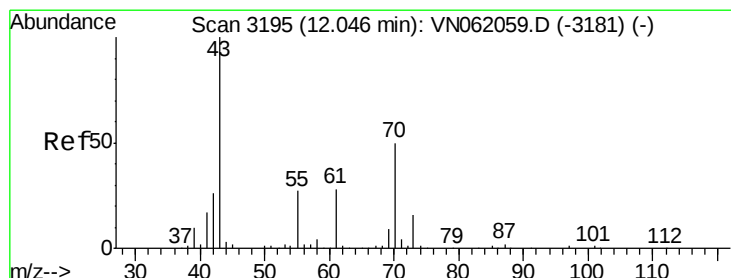
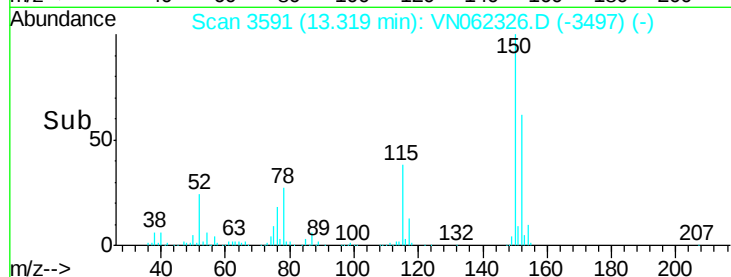
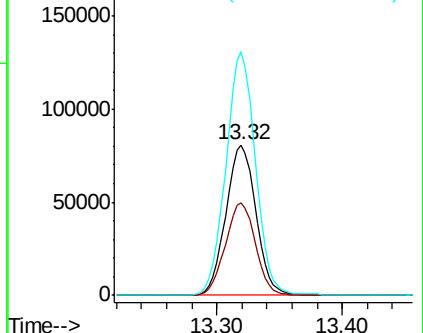
150 158.2 0.0 351.4



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: 3.933 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Tgt Ion: 43 Resp: 2425

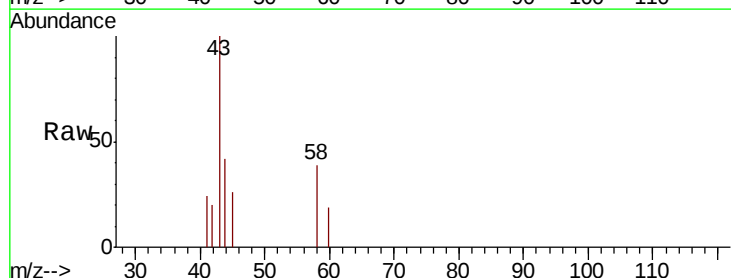
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

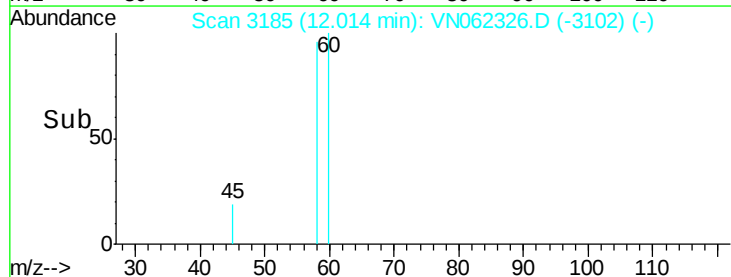
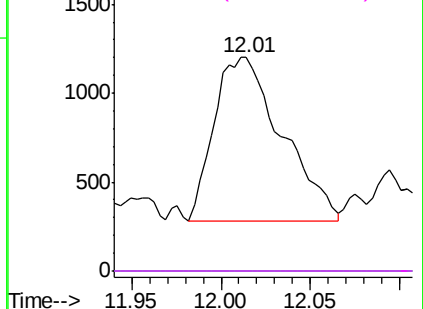


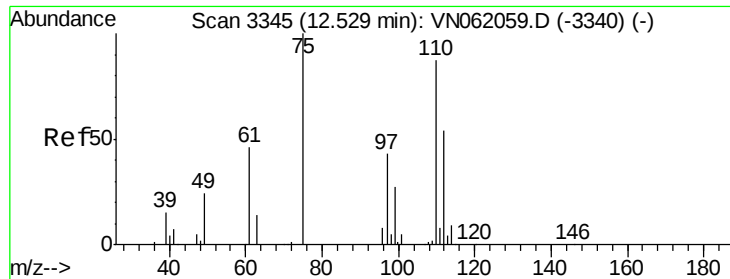
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 26.910 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

Instrument :

MSVOA_N

ClientSampled :

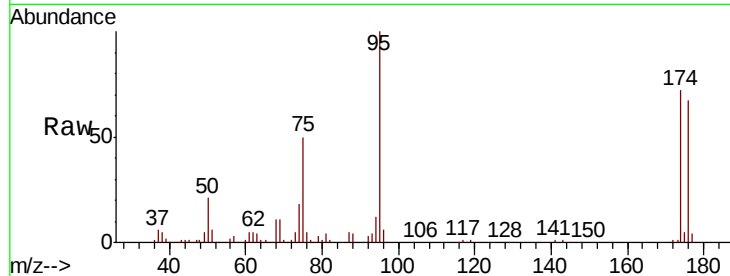
SP2-K

Tot Ion: 75 Resp: 85224

Ion Ratio Lower Upper

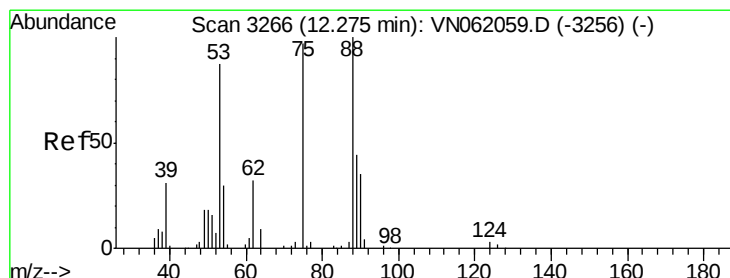
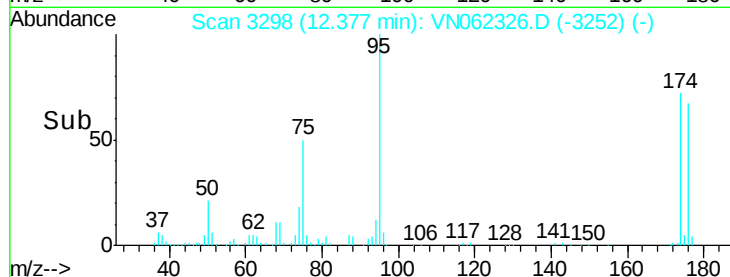
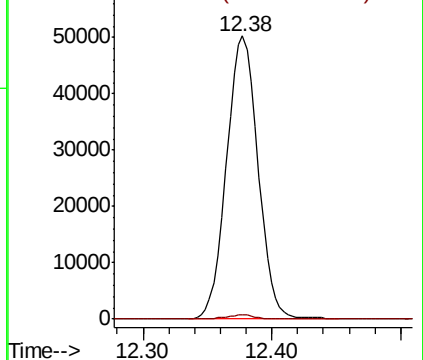
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 78.588 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062326.D

Acq: 2 Jul 2020 6:46

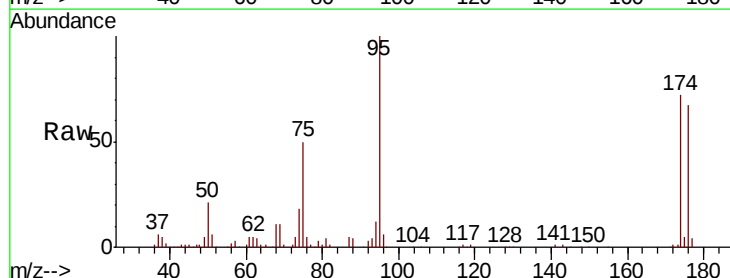
Tgt Ion: 75 Resp: 85224

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

89 0.0 36.9 55.3#



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

