

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058936.D
 Acq On : 23 Oct 2019 17:36
 Operator : JC/SP
 Sample : K5508-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S32-0665

Quant Time: Oct 24 01:15:21 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	310559	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	518456	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	468271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	178561	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	251837	55.29	ug/l	0.00
Spiked Amount			Recovery	=	110.58%	
35) Dibromofluoromethane	7.57	113	177648	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
50) Toluene-d8	10.09	98	632253	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
62) 4-Bromofluorobenzene	12.40	95	208772	42.96	ug/l	0.00
Spiked Amount			Recovery	=	85.92%	

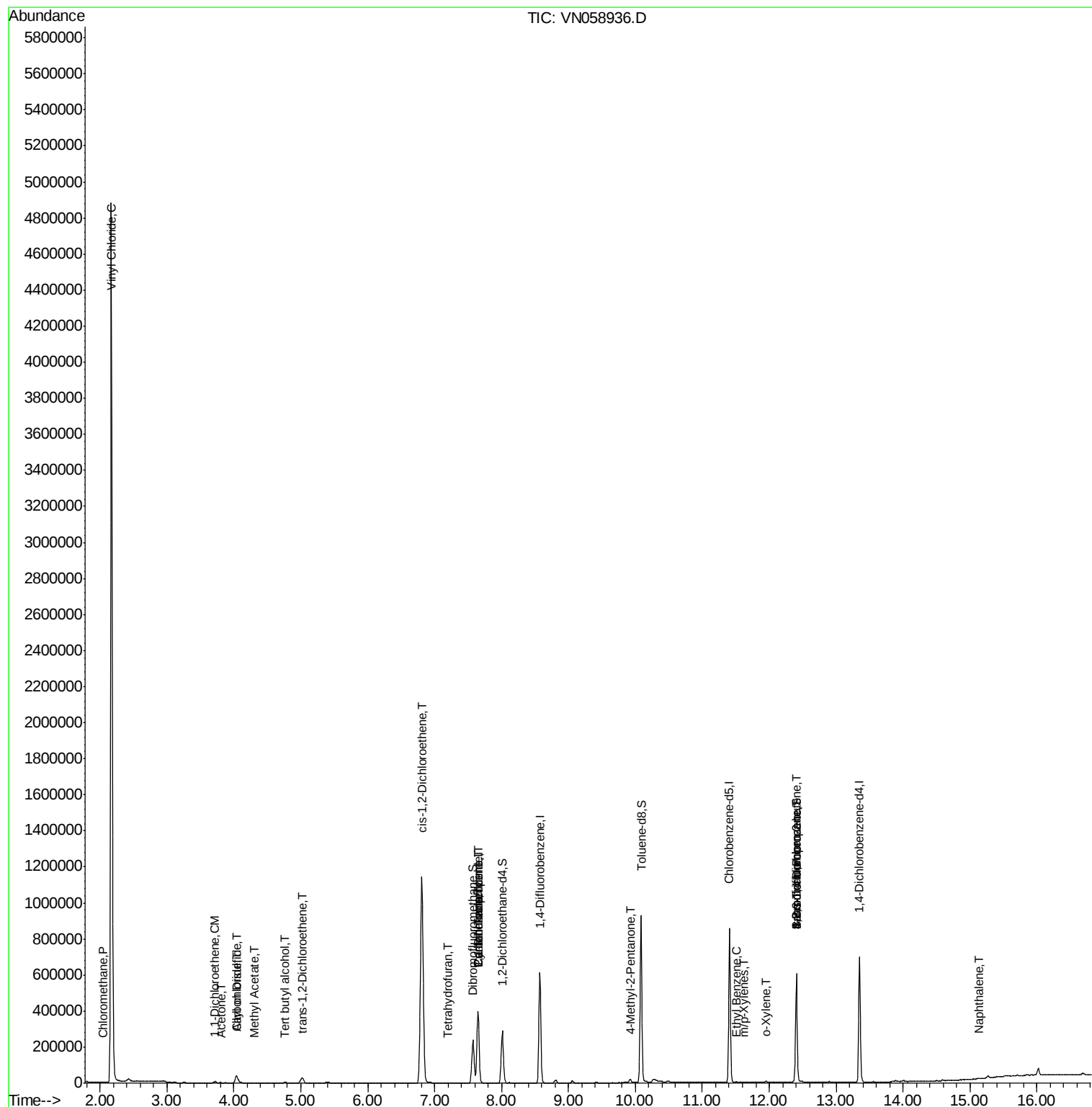
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1066	0.222	ug/l #	86
4) Vinyl Chloride	2.17	62	4524196	950.150	ug/l #	69
11) Tert butyl alcohol	4.75	59	4946	6.544	ug/l #	80
12) 1,1-Dichloroethene	3.72	96	3546	1.158	ug/l	99
14) Allyl chloride	4.04	41	5932	0.958	ug/l #	70
16) Acetone	3.79	43	1891	0.840	ug/l #	89
17) Carbon Disulfide	4.03	76	4516	0.458	ug/l #	92
18) Methyl Acetate	4.32	43	2094	0.409	ug/l #	61
21) trans-1,2-Dichloroethene	5.01	96	17929	5.303	ug/l	92
27) cis-1,2-Dichloroethene	6.81	96	727323	188.312	ug/l	89
29) Tetrahydrofuran	7.20	42	372	0.208	ug/l #	36
31) Cyclohexane	7.65	56	7240	1.106	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	26904	5.069	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31477	5.756	ug/l #	17
51) 4-Methyl-2-Pentanone	9.92	43	10176	1.878	ug/l #	38
67) Ethyl Benzene	11.51	91	3413	0.204	ug/l #	88
68) m/p-Xylenes	11.63	106	1372	0.221	ug/l	82
69) o-Xylene	11.95	106	2545	0.430	ug/l	93
71) Bromoform	12.40	173	1155	0.414	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	111346	26.906	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	111346	70.092	ug/l #	10
95) Naphthalene	15.13	128	2316	2.442	ug/l #	74

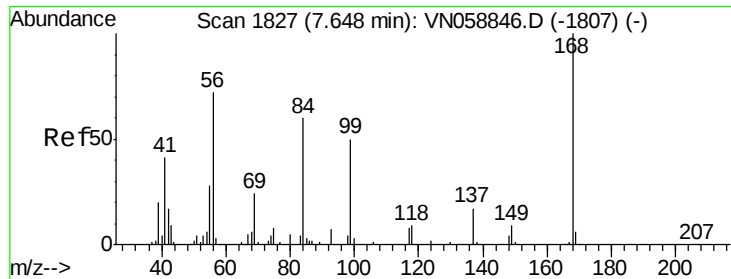
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102419\
Data File : VN058936.D
Acq On : 23 Oct 2019 17:36
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Sample : K5508-01
Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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Quant Time: Oct 24 01:15:21 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

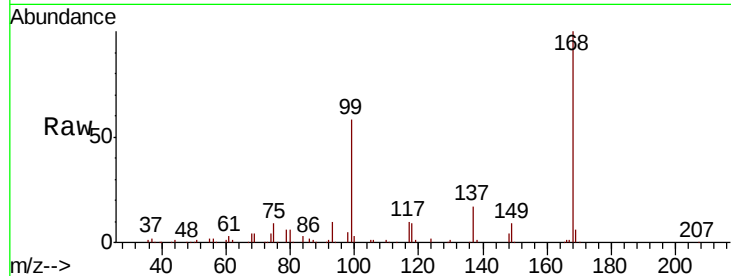
S32-0665

Tot Ion:168 Resp: 310559

Ion Ratio Lower Upper

168 100

99 58.4 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

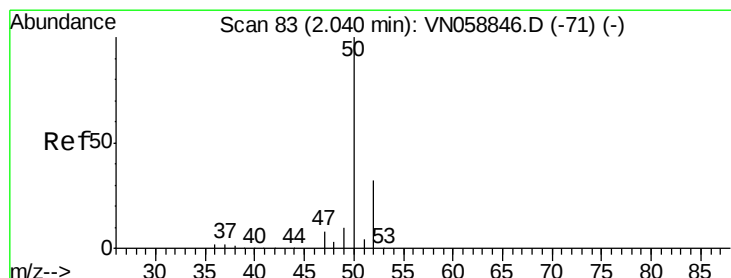
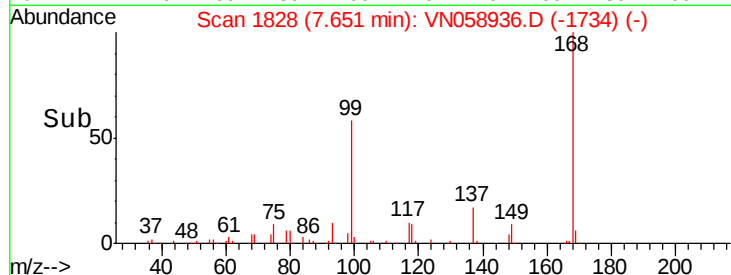
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.222 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058936.D

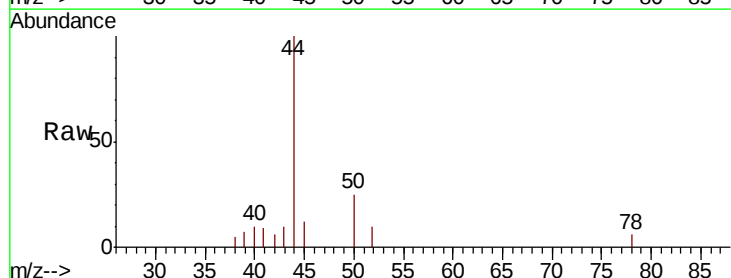
Acq: 23 Oct 2019 17:36

Tgt Ion: 50 Resp: 1066

Ion Ratio Lower Upper

50 100

52 39.7 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

800

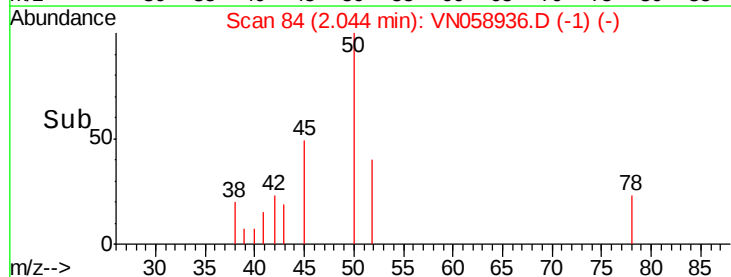
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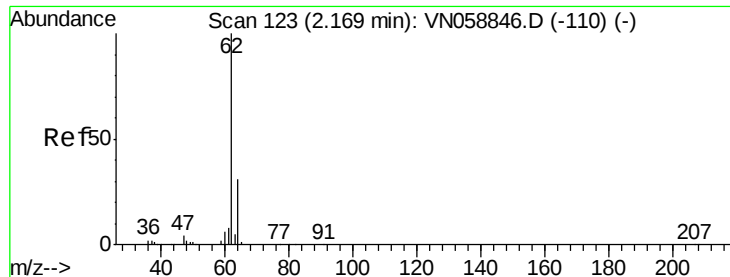
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 950.150 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampled :

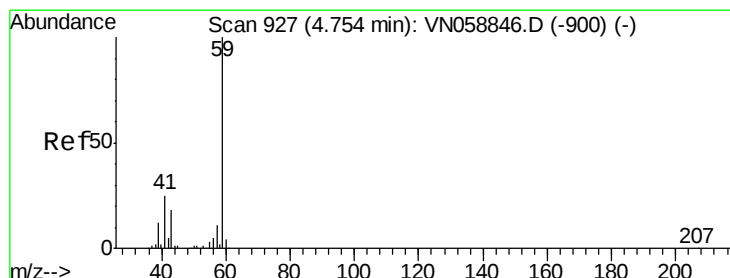
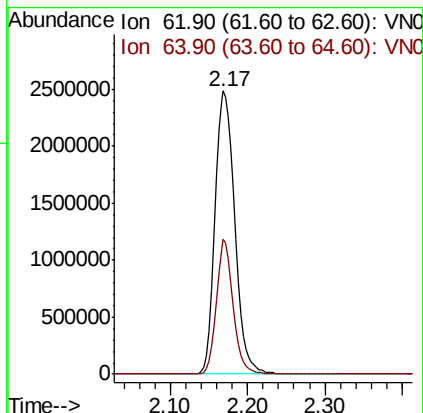
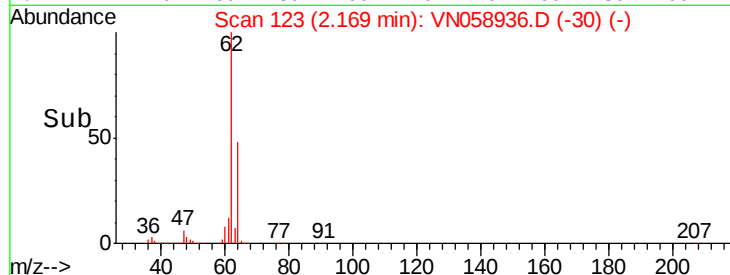
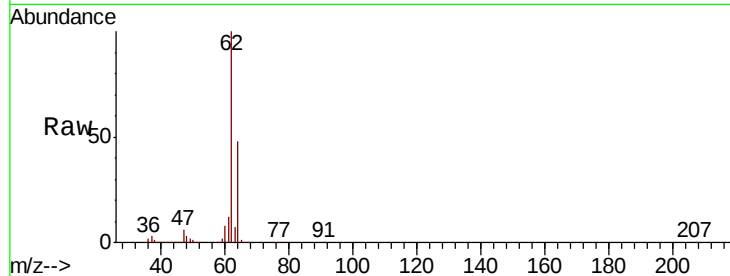
S32-0665

Tot Ion: 62 Resp: 4524196

Ion Ratio Lower Upper

62 100

64 47.9 24.6 36.8#



#11

Tert butyl alcohol

Concen: 6.544 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN058936.D

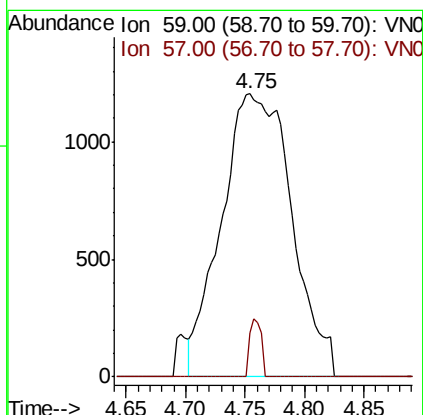
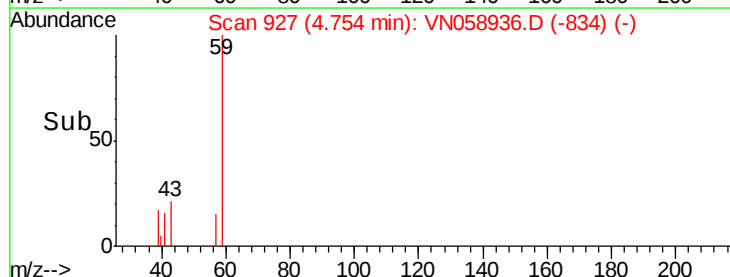
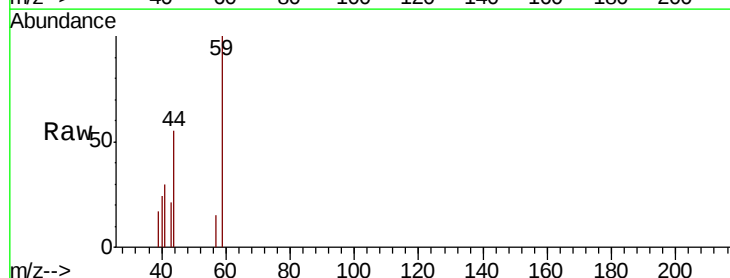
Acq: 23 Oct 2019 17:36

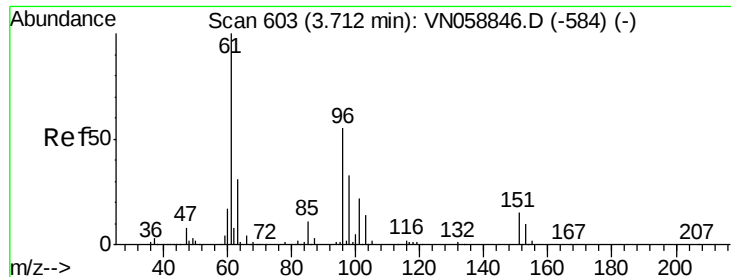
Tgt Ion: 59 Resp: 4946

Ion Ratio Lower Upper

59 100

57 3.3 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 1.158 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.01 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

S32-0665

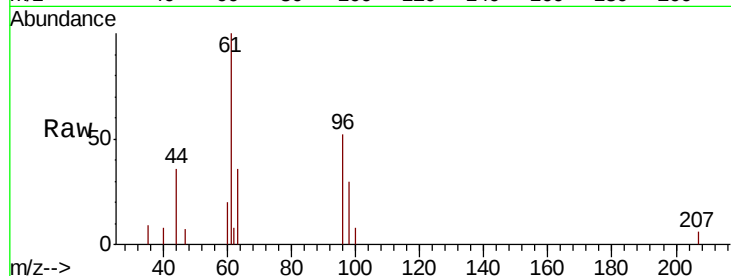
Tot Ion: 96 Resp: 3546

Ion Ratio Lower Upper

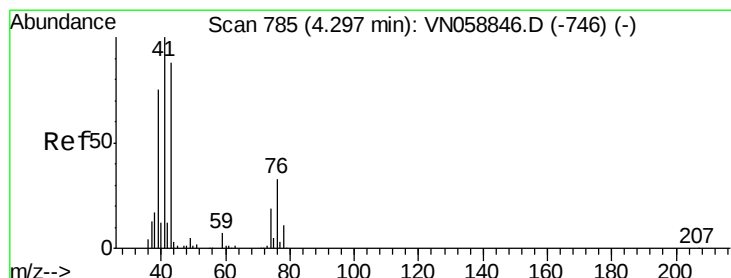
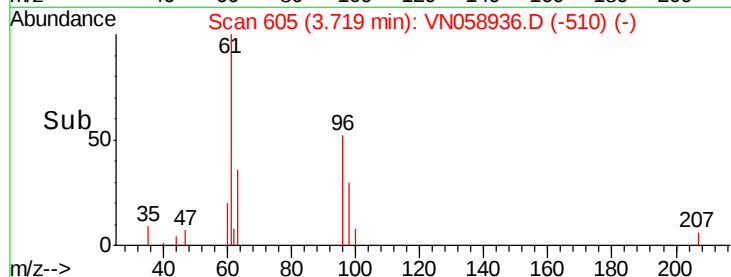
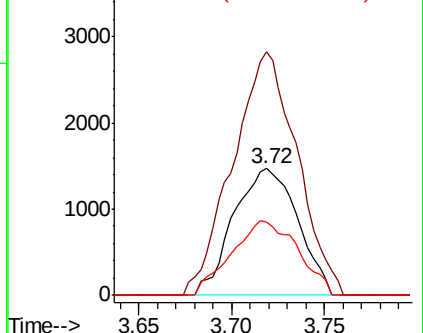
96 100

61 181.7 146.2 219.2

98 58.2 48.7 73.1



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#14

Allyl chloride

Concen: 0.958 ug/l

RT: 4.04 min Scan# 706

Delta R.T. -0.25 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

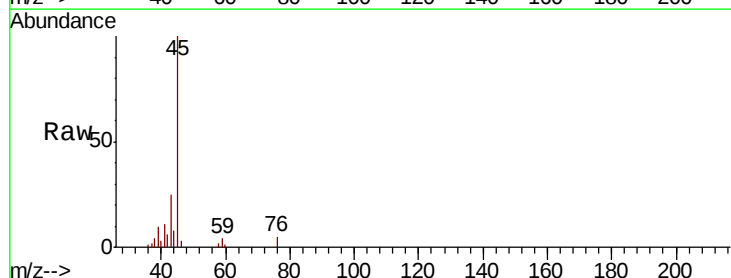
Tgt Ion: 41 Resp: 5932

Ion Ratio Lower Upper

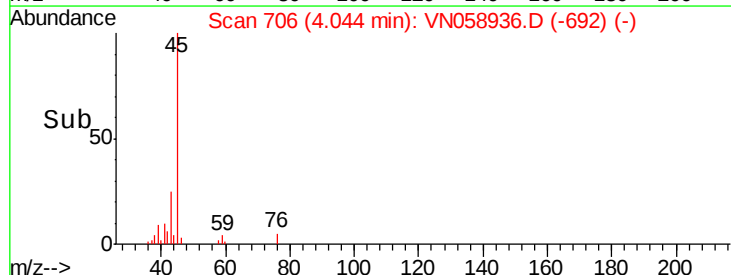
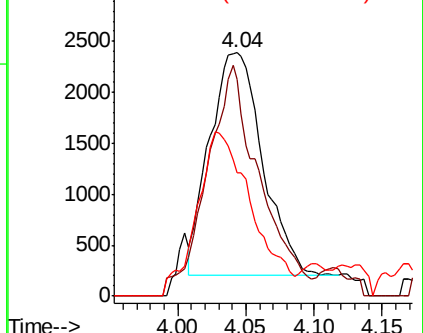
41 100

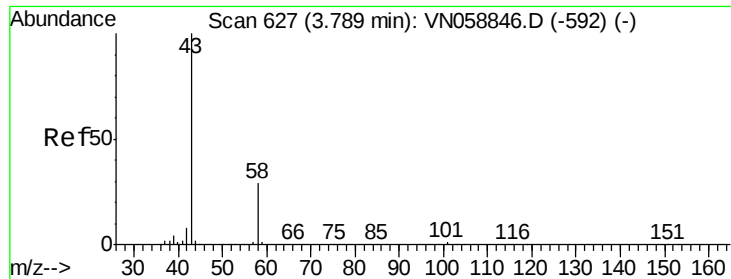
39 87.4 55.9 83.9#

76 56.4 24.1 36.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 75.90 (75.60 to 76.60): VNO





#16

Acetone

Concen: 0.840 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

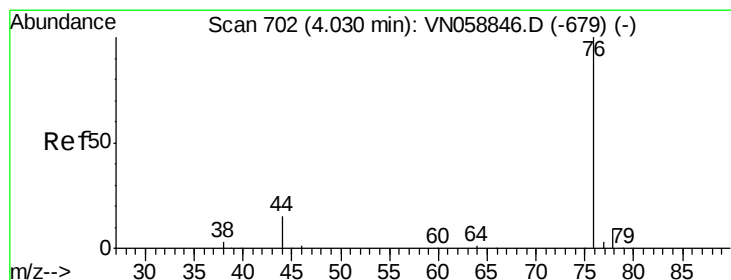
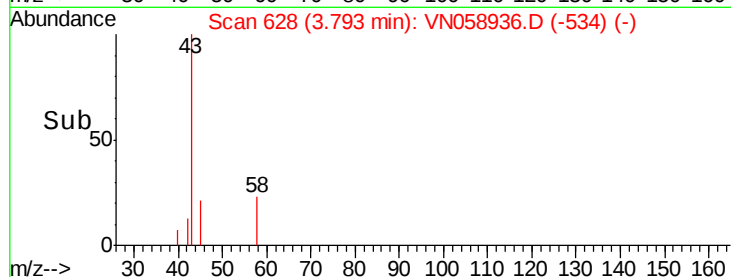
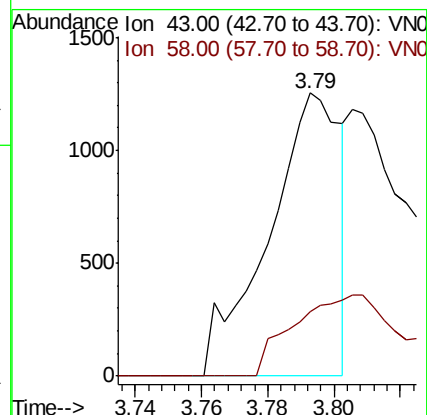
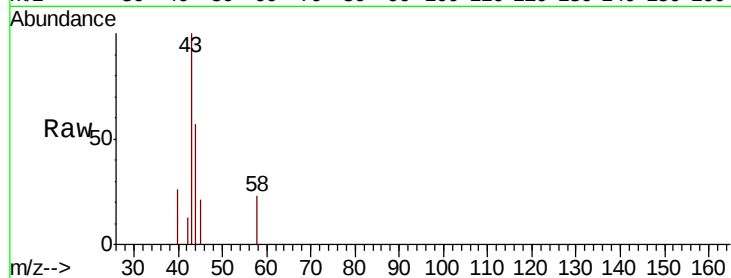
S32-0665

Tot Ion: 43 Resp: 1891

Ion Ratio Lower Upper

43 100

58 23.0 23.1 34.7#



#17

Carbon Disulfide

Concen: 0.458 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058936.D

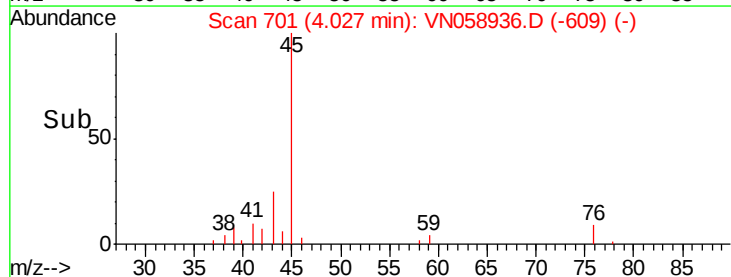
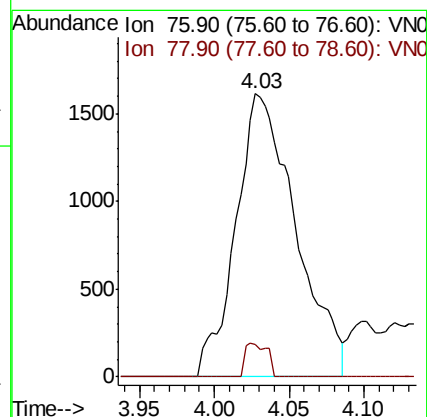
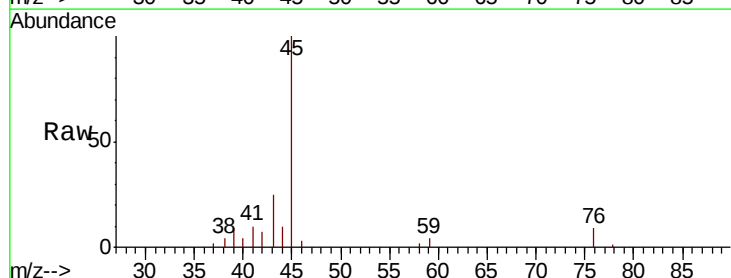
Acq: 23 Oct 2019 17:36

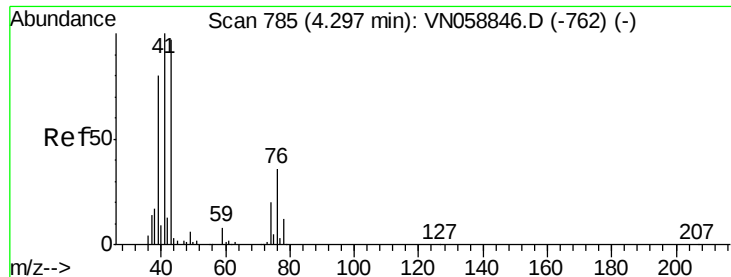
Tgt Ion: 76 Resp: 4516

Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#

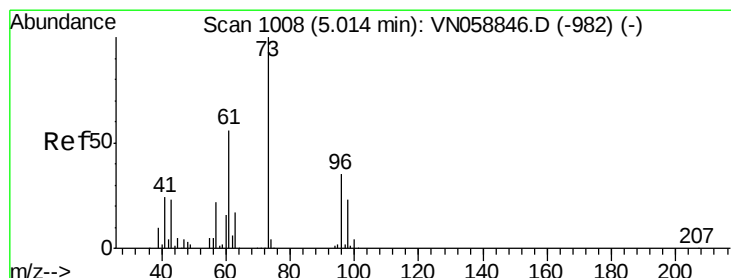
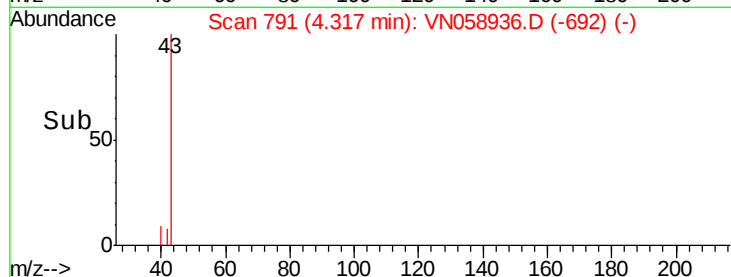
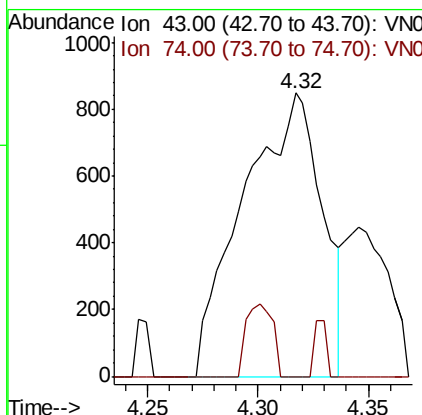
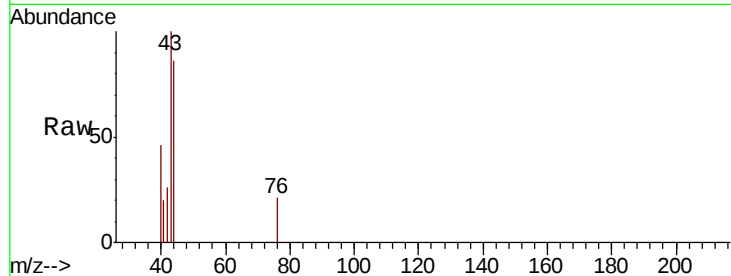




#18
Methyl Acetate
Concen: 0.409 ug/l
RT: 4.32 min Scan# 791
Delta R.T. 0.02 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

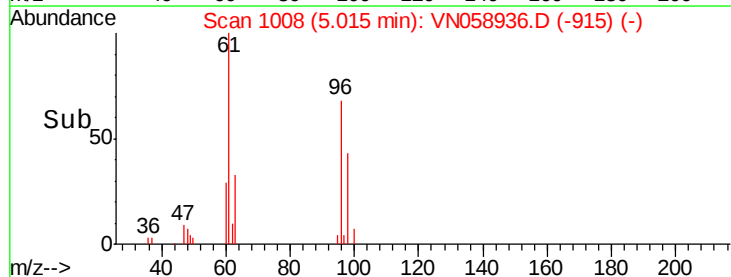
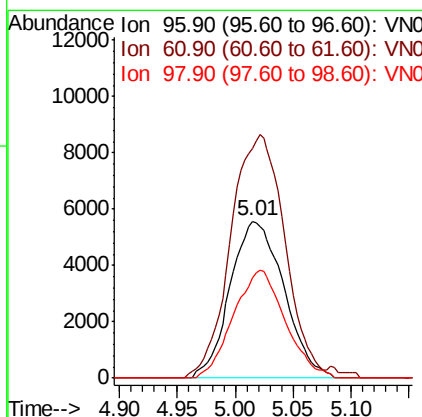
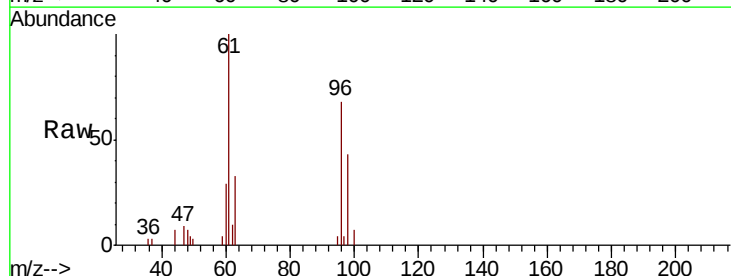
Instrument :
MSVOA_N
ClientSampleId :
S32-0665

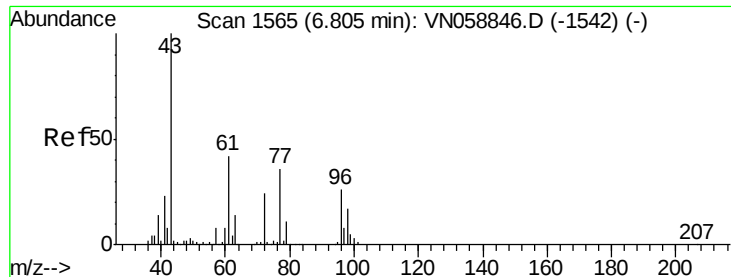
Tot Ion: 43 Resp: 2094
Ion Ratio Lower Upper
43 100
74 3.1 17.1 25.7#



#21
trans-1,2-Dichloroethene
Concen: 5.303 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Tgt Ion: 96 Resp: 17929
Ion Ratio Lower Upper
96 100
61 143.8 126.7 190.1
98 63.6 52.0 78.0





#27

cis-1,2-Dichloroethene

Concen: 188.312 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

S32-0665

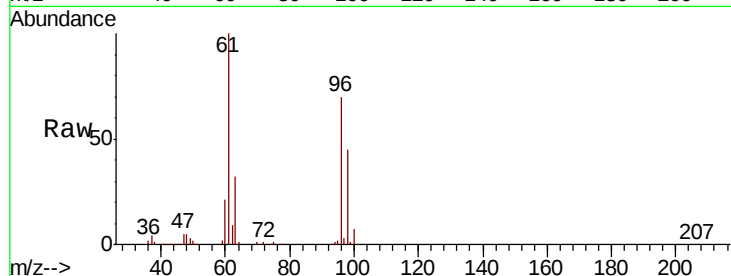
Tot Ion: 96 Resp: 727323

Ion Ratio Lower Upper

96 100

61 142.6 0.0 325.0

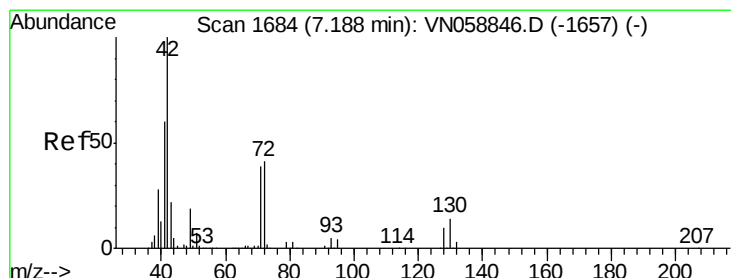
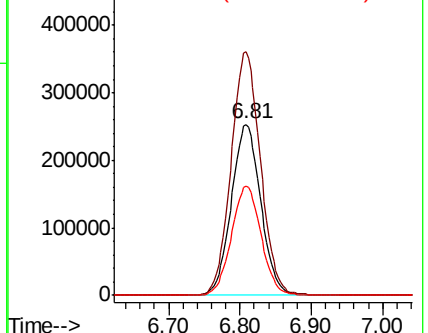
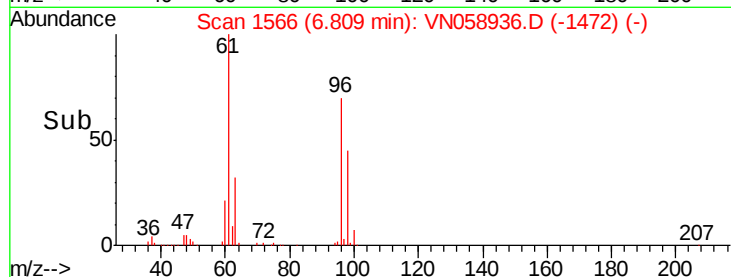
98 64.4 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN058846.D (-1542) (-)

Ion 60.90 (60.60 to 61.60): VN058846.D (-1542) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1542) (-)



#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.02 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

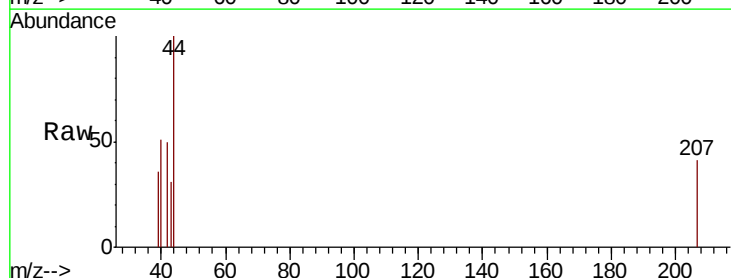
Tgt Ion: 42 Resp: 372

Ion Ratio Lower Upper

42 100

72 0.0 32.2 48.2#

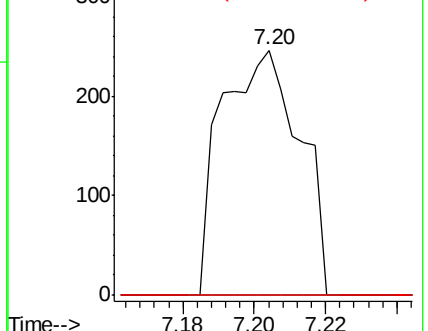
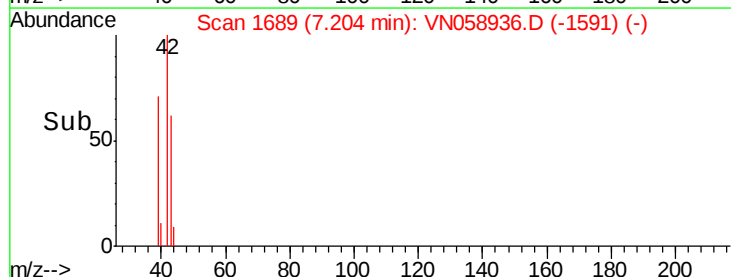
71 0.0 30.6 45.8#

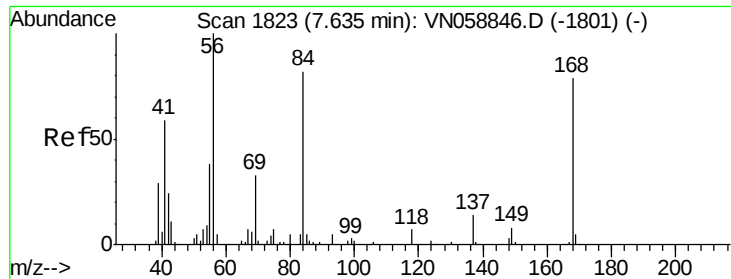


Abundance Ion 42.00 (41.70 to 42.70): VN058846.D (-1657) (-)

Ion 72.00 (71.70 to 72.70): VN058846.D (-1657) (-)

Ion 71.00 (70.70 to 71.70): VN058846.D (-1657) (-)

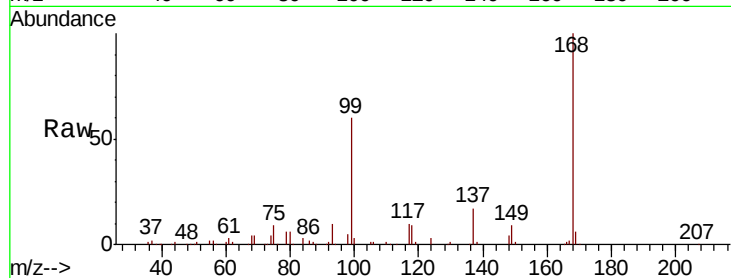




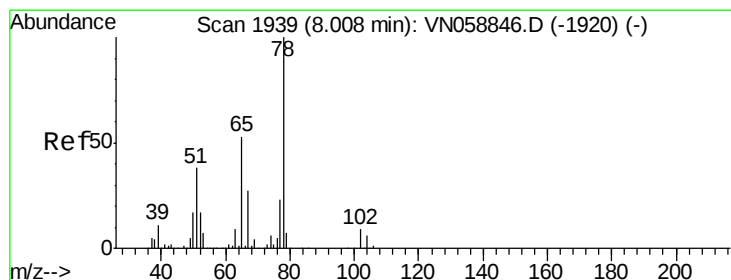
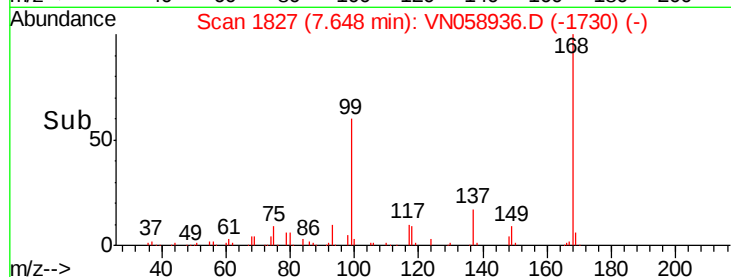
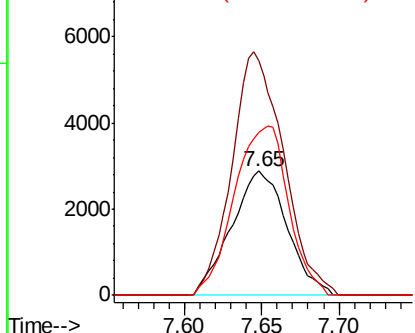
#31
Cyclohexane
Concen: 1.106 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Instrument :
MSVOA_N
ClientSampled :
S32-0665

Tot Ion: 56 Resp: 7240
Ion Ratio Lower Upper
56 100
69 189.2 26.2 39.4#
84 131.1 65.6 98.4#

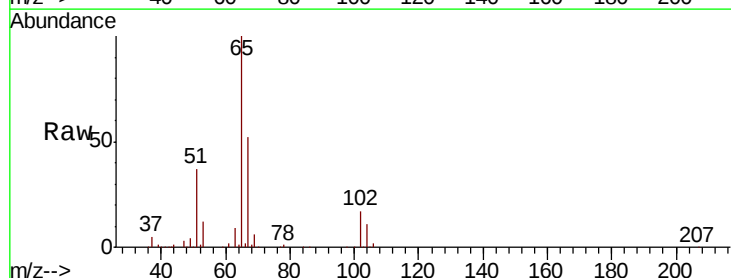


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

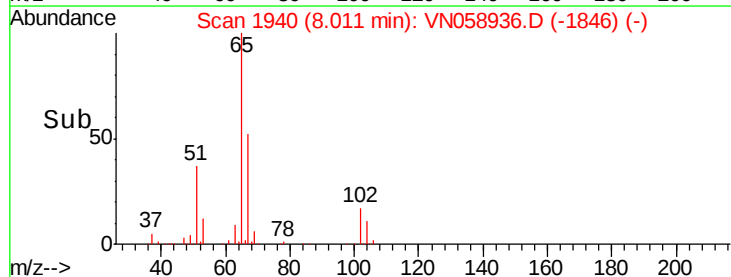
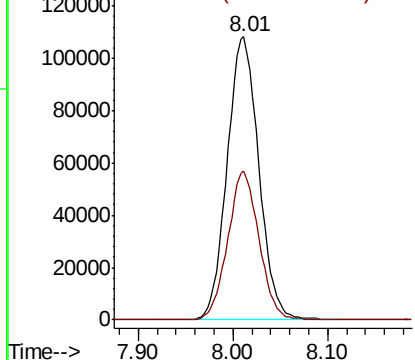


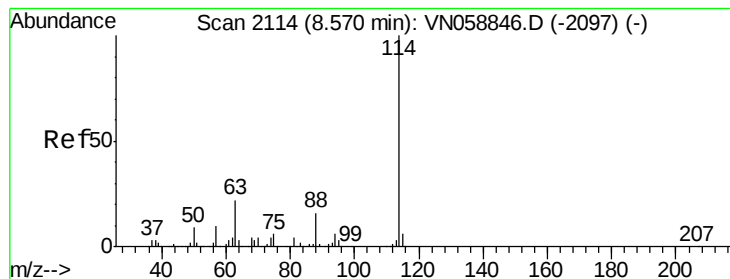
#33
1,2-Dichloroethane-d4
Concen: 55.290 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Tgt Ion: 65 Resp: 251837
Ion Ratio Lower Upper
65 100
67 51.8 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# 2115

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

S32-0665

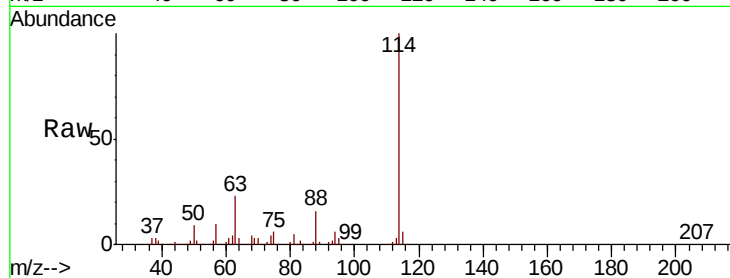
Tot Ion:114 Resp: 518456

Ion Ratio Lower Upper

114 100

63 22.9 0.0 44.4

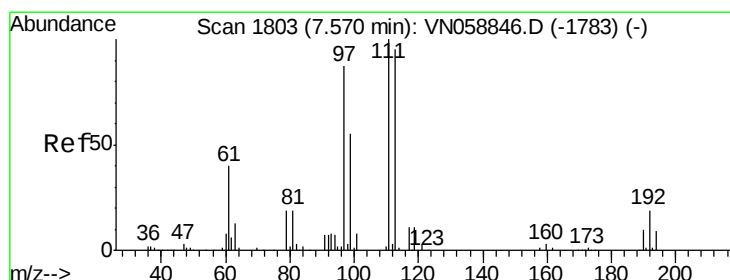
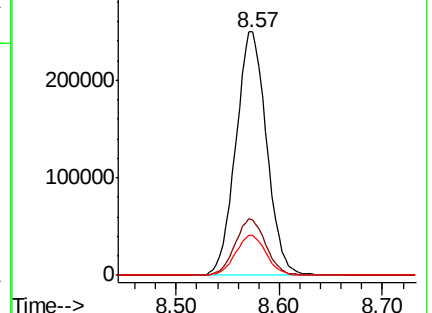
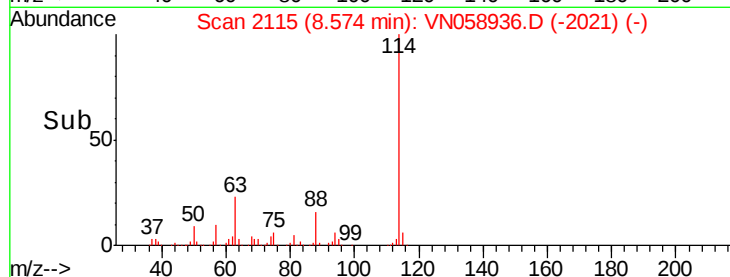
88 16.4 0.0 31.4



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: 52.116 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

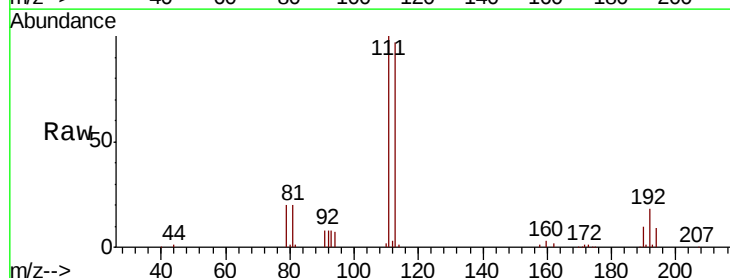
Tgt Ion:113 Resp: 177648

Ion Ratio Lower Upper

113 100

111 102.9 82.0 123.0

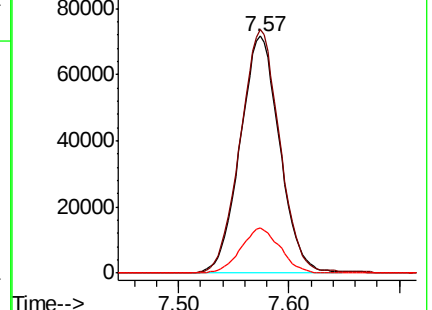
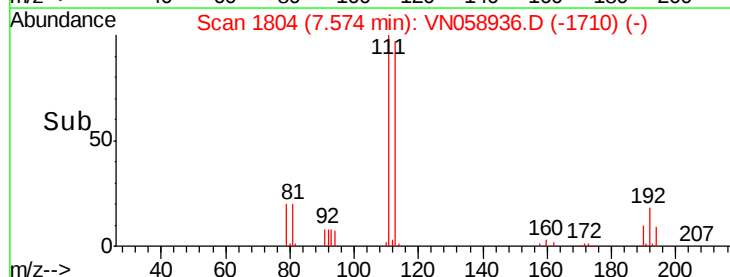
192 18.9 15.0 22.6

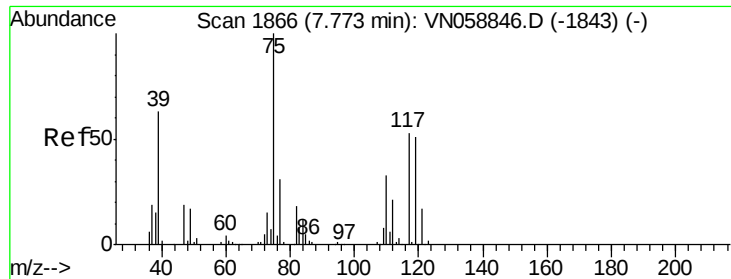


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

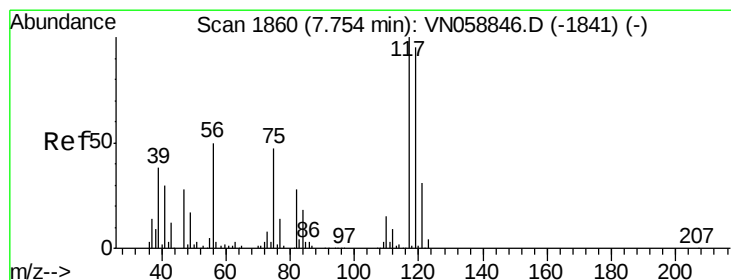
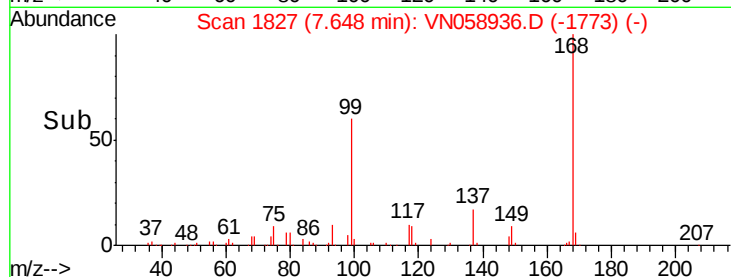
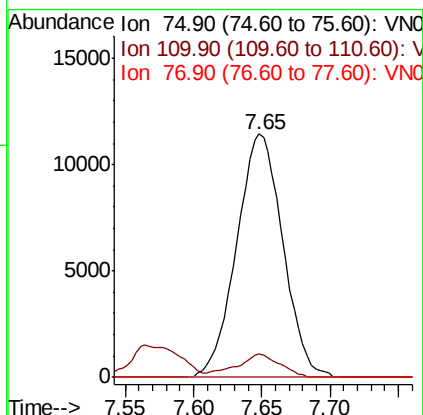
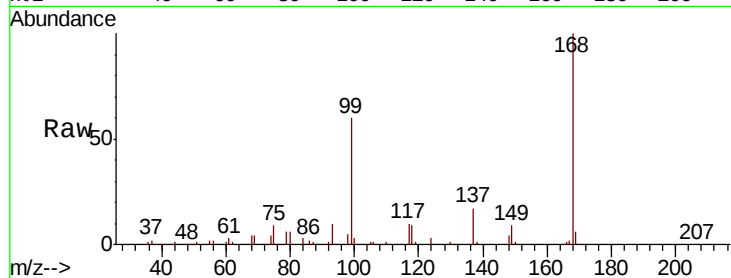




#36
 1,1-Dichloropropene
 Concen: 5.069 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058936.D
 Acq: 23 Oct 2019 17:36

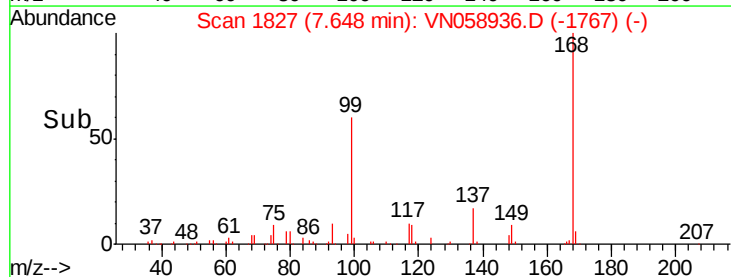
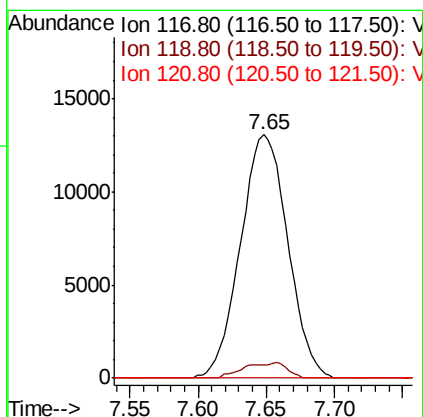
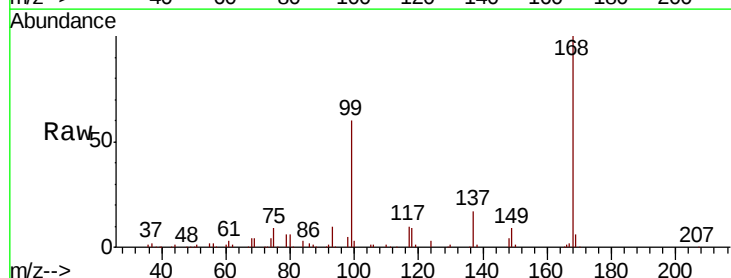
Instrument :
 MSVOA_N
 ClientSampled :
 S32-0665

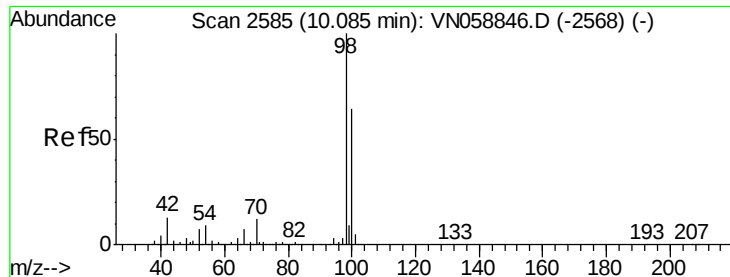
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	16.3	48.9#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.756 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN058936.D
 Acq: 23 Oct 2019 17:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	75.7	113.5#
121	0.0	25.0	37.6#





#50

Toluene-d8

Concen: 47.782 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

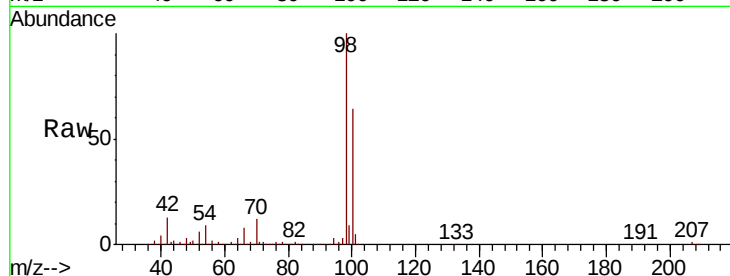
S32-0665

Tot Ion: 98 Resp: 632253

Ion Ratio Lower Upper

98 100

100 63.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

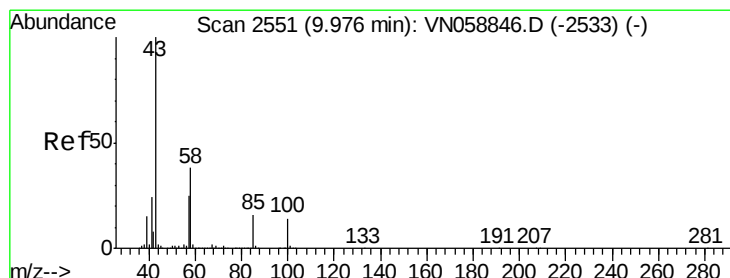
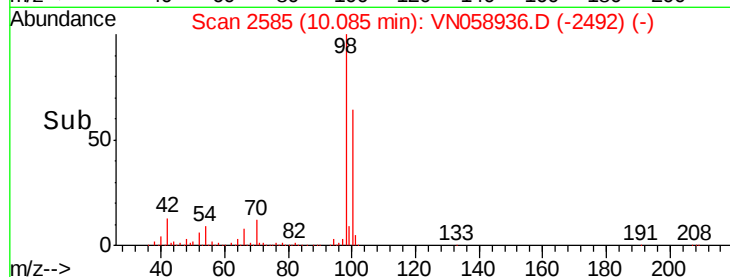
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.878 ug/l

RT: 9.92 min Scan# 2534

Delta R.T. -0.05 min

Lab File: VN058936.D

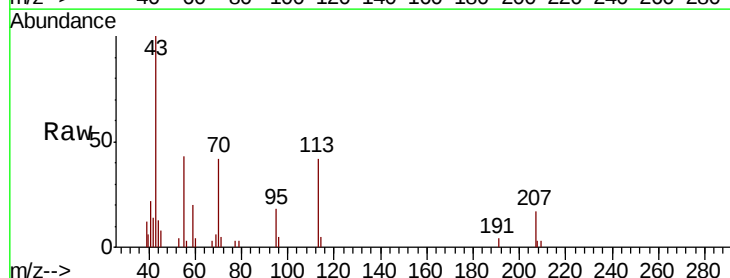
Acq: 23 Oct 2019 17:36

Tgt Ion: 43 Resp: 10176

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.92

6000

5000

4000

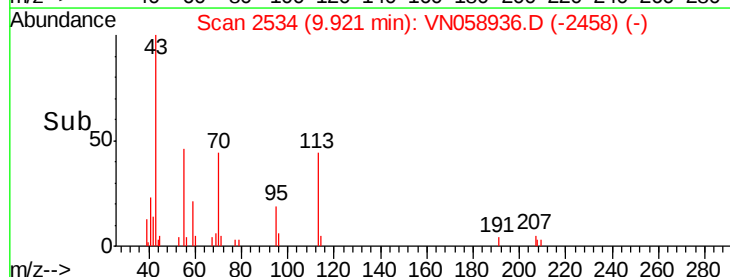
3000

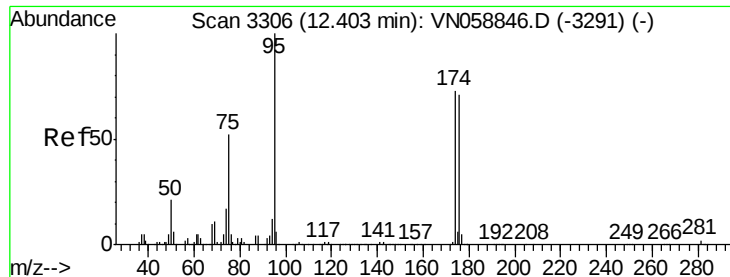
2000

1000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 42.964 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

S32-0665

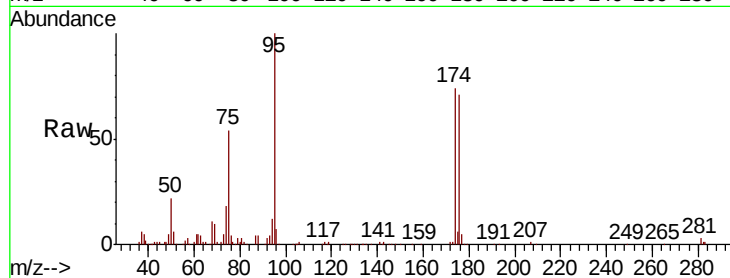
Tot Ion: 95 Resp: 208772

Ion Ratio Lower Upper

95 100

174 75.0 0.0 147.6

176 72.1 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

12.40

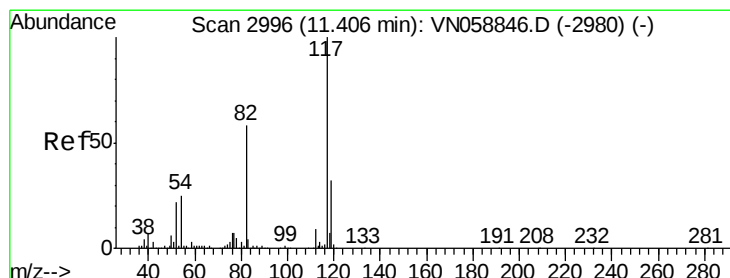
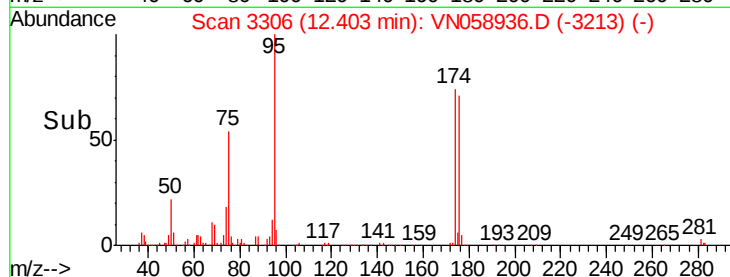
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

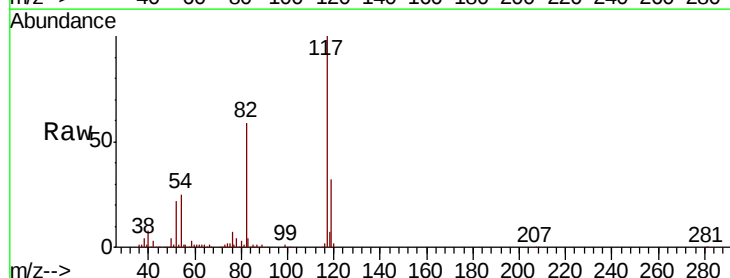
Tgt Ion: 117 Resp: 468271

Ion Ratio Lower Upper

117 100

82 59.3 46.6 69.8

119 31.8 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

11.41

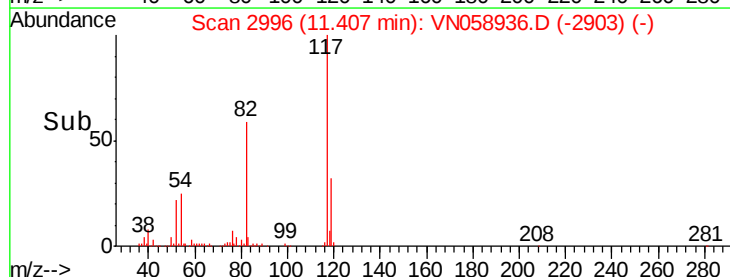
300000

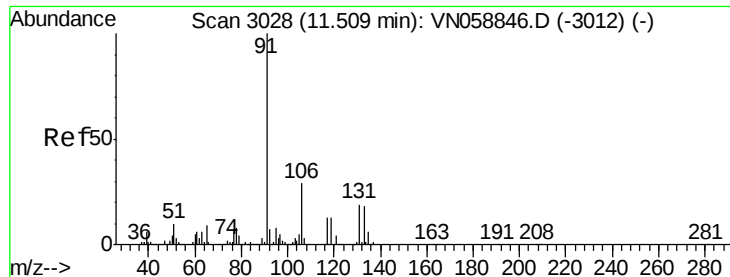
200000

100000

0

Time--> 11.30 11.40 11.50

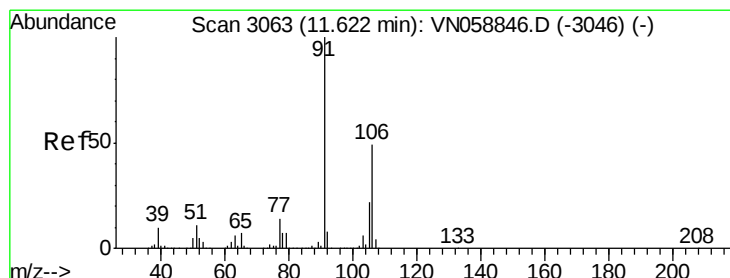
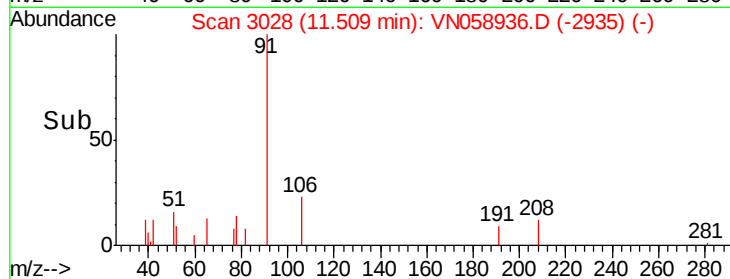
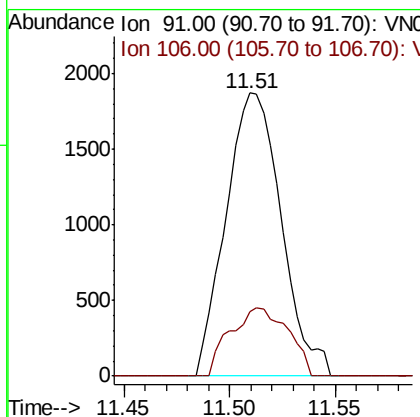
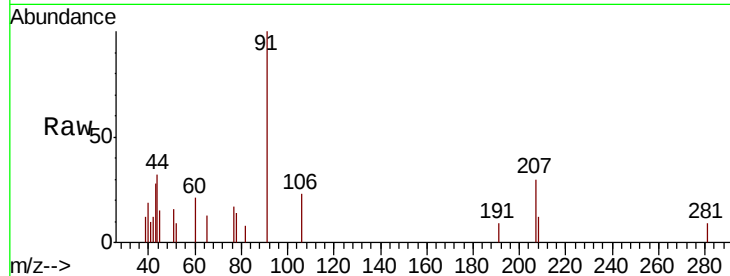




#67
Ethyl Benzene
Concen: 0.204 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

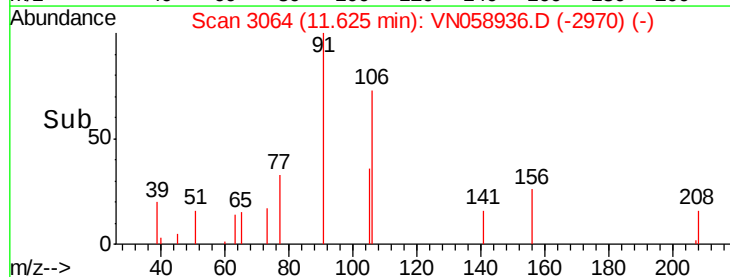
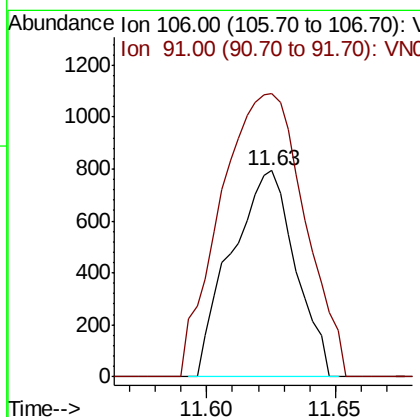
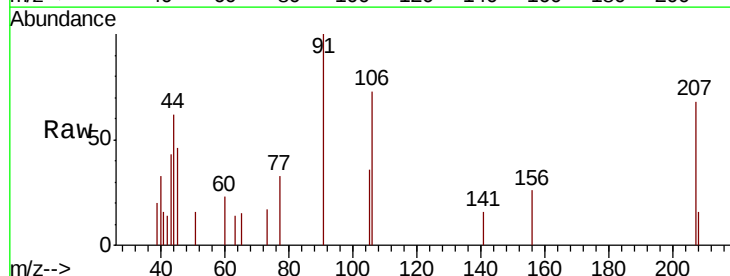
Instrument :
MSVOA_N
ClientSampled :
S32-0665

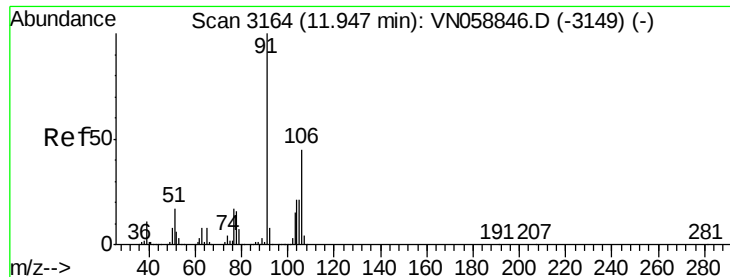
Tot Ion: 91 Resp: 3413
Ion Ratio Lower Upper
91 100
106 22.7 23.4 35.0#



#68
m/p-Xylenes
Concen: 0.221 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Tgt Ion: 106 Resp: 1372
Ion Ratio Lower Upper
106 100
91 179.9 166.6 249.8

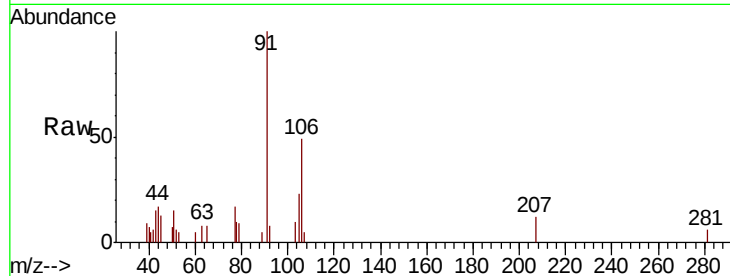




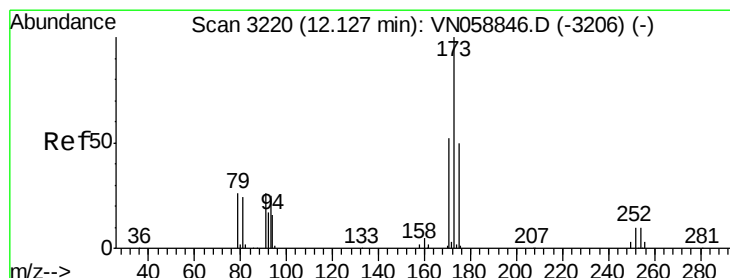
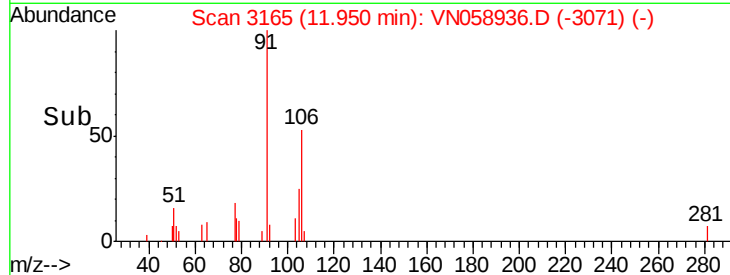
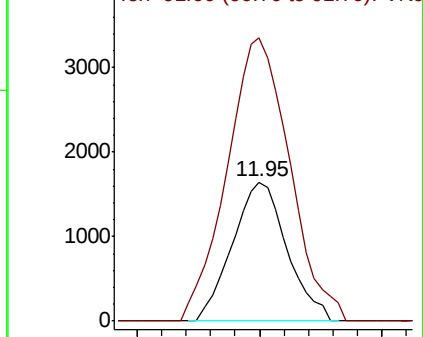
#69
o-Xylene
Concen: 0.430 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Instrument :
MSVOA_N
ClientSampleId :
S32-0665

Tot Ion:106 Resp: 2545
Ion Ratio Lower Upper
106 100
91 234.5 111.5 334.4

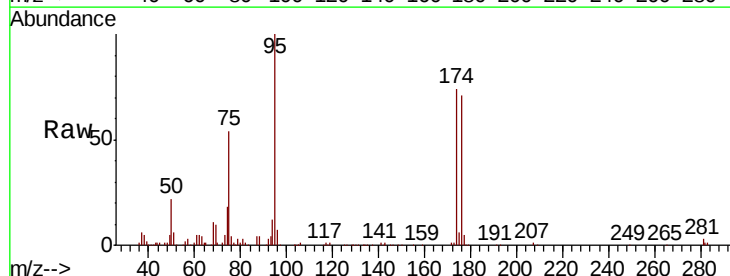


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

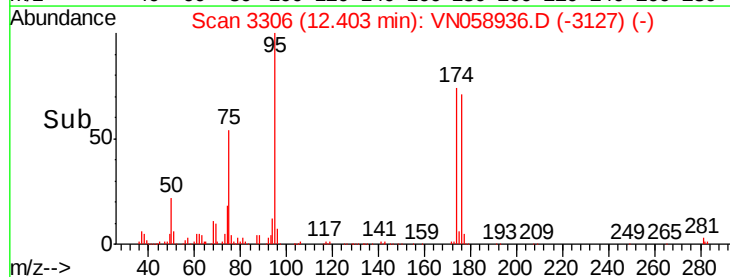
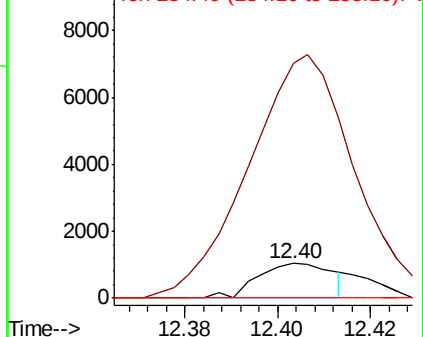


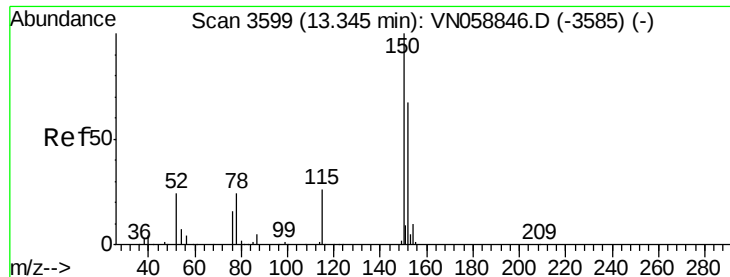
#71
Bromoform
Concen: 0.414 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Tgt Ion:173 Resp: 1155
Ion Ratio Lower Upper
173 100
175 815.2 24.7 74.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



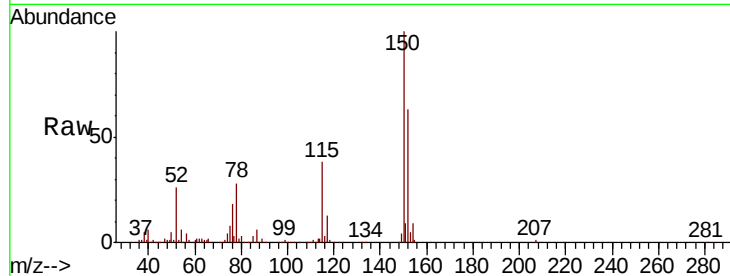


#72

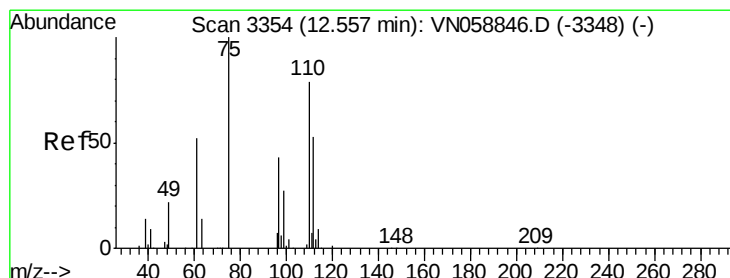
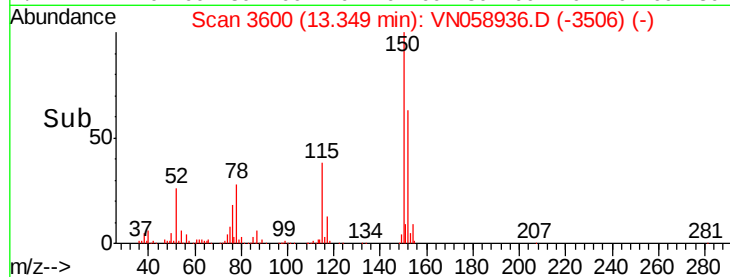
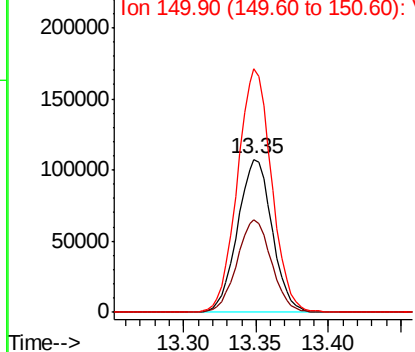
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Instrument :
MSVOA_N
ClientSampled :
S32-0665

Tot Ion:152 Resp: 178561
Ion Ratio Lower Upper
152 100
115 60.4 30.5 91.5
150 156.8 0.0 344.4



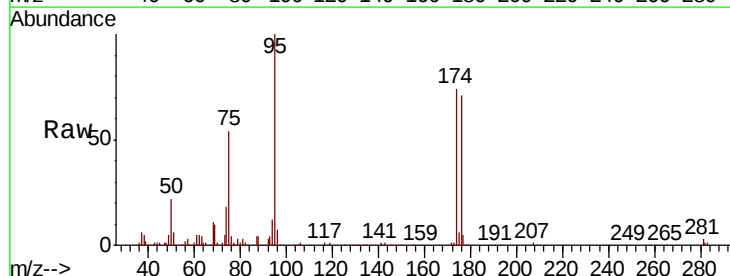
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



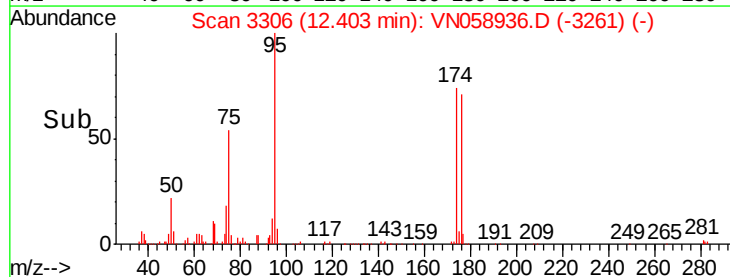
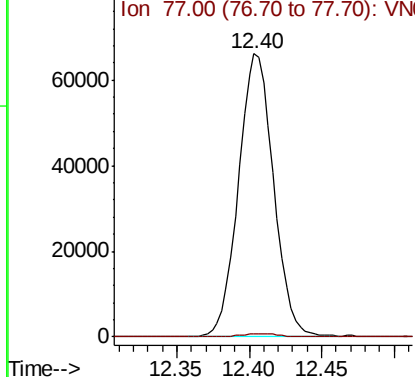
#76

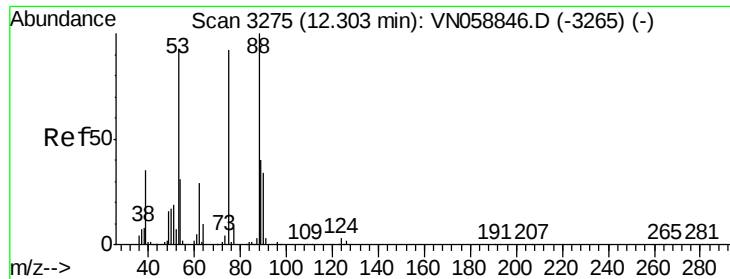
1,2,3-Trichloropropane
Concen: 26.906 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN058936.D
Acq: 23 Oct 2019 17:36

Tgt Ion: 75 Resp: 111346
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.092 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

Instrument :

MSVOA_N

ClientSampleId :

S32-0665

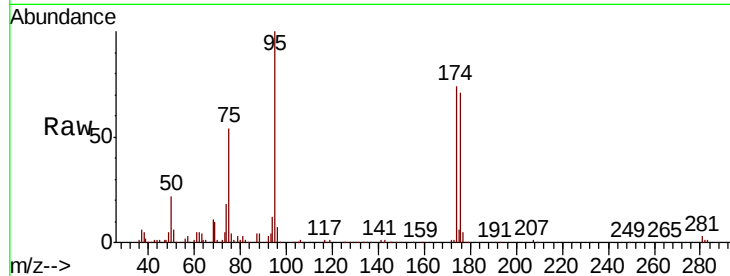
Tot Ion: 75 Resp: 111346

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

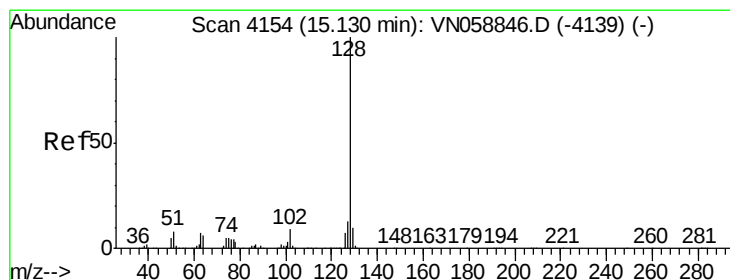
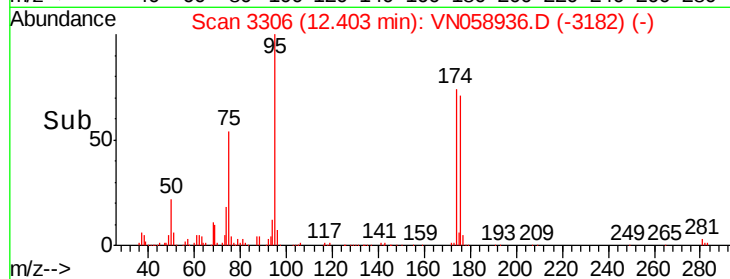
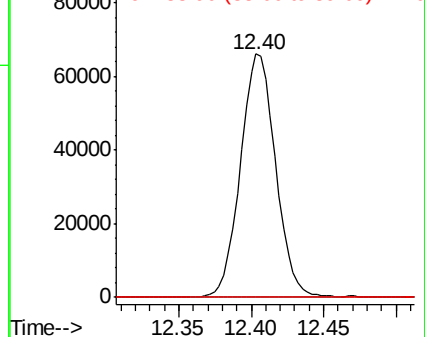
89 0.0 35.4 53.0#



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: 2.442 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058936.D

Acq: 23 Oct 2019 17:36

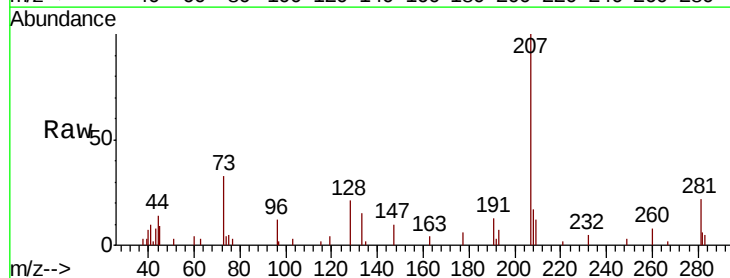
Tgt Ion: 128 Resp: 2316

Ion Ratio Lower Upper

128 100

127 3.0 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

