

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032319\
 Data File : VN054627.D
 Acq On : 24 Mar 2019 2:31
 Operator : JC/SP
 Sample : K2043-06ME
 Misc : 5.67µ/5mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB429-190319-(23-25)ME

Quant Time: Mar 25 03:42:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	536045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	860077	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	748705	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	312444	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	338454	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	7.59	113	257896	46.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.08%	
50) Toluene-d8	10.09	98	1044327	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	347218	48.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.96%	

Target Compounds

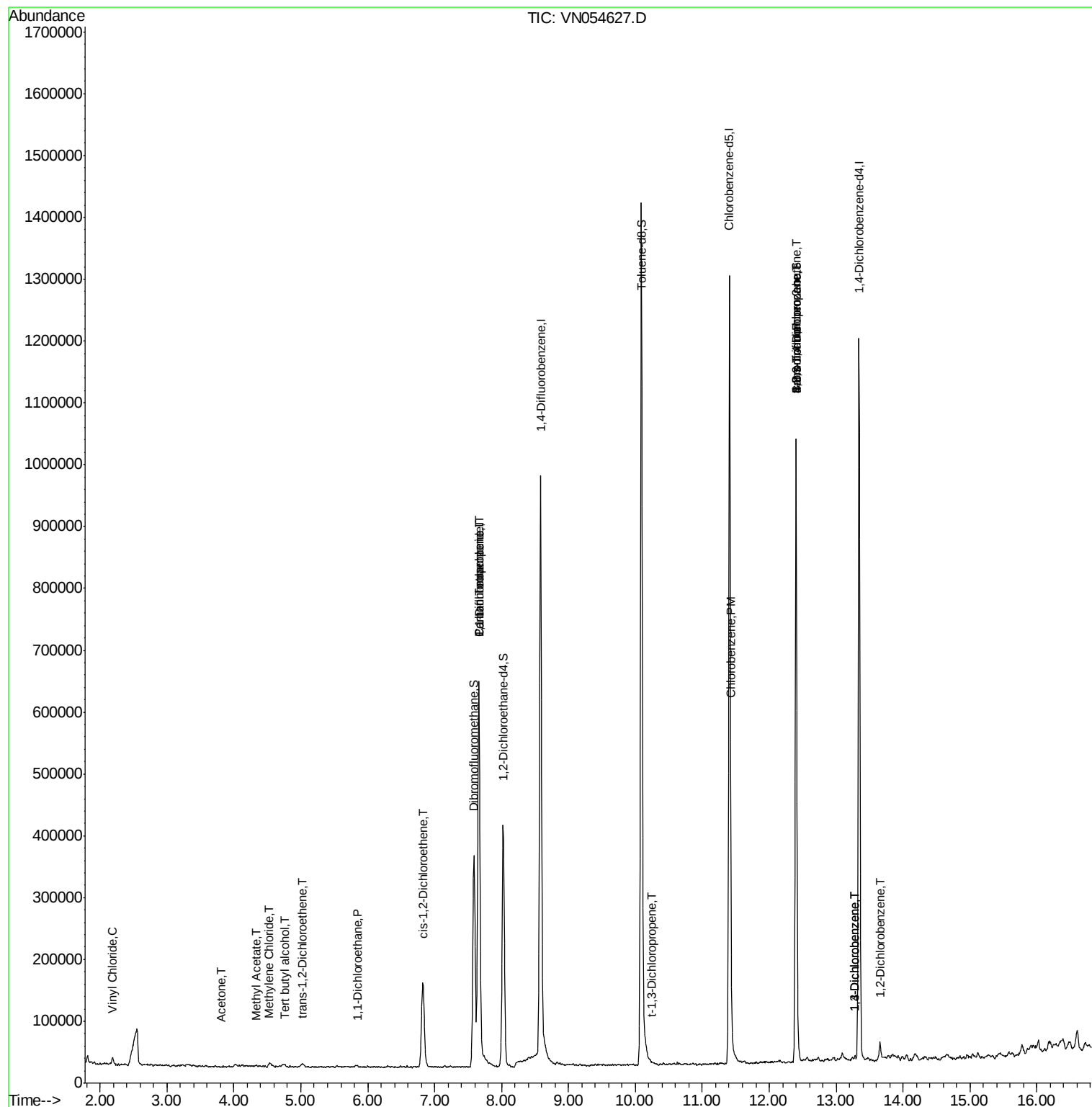
					Qvalue	
4) Vinyl Chloride	2.19	62	9741	1.392	ug/l	93
11) Tert butyl alcohol	4.75	59	3546	8.784	ug/l #	70
16) Acetone	3.82	43	1213	0.605	ug/l #	38
18) Methyl Acetate	4.33	43	3284	0.735	ug/l #	72
20) Methylene Chloride	4.54	84	3791	0.642	ug/l	93
21) trans-1,2-Dichloroethene	5.02	96	2264	0.429	ug/l #	86
24) 1,1-Dichloroethane	5.85	63	4729	0.457	ug/l #	92
27) cis-1,2-Dichloroethene	6.82	96	87542	13.902	ug/l	97
31) Cyclohexane	7.66	56	11378	Below Cal	#	34
36) 1,1-Dichloropropene	7.66	75	39915	4.963	ug/l #	48
38) Carbon Tetrachloride	7.66	117	49207	6.297	ug/l #	16
53) t-1,3-Dichloropropene	10.25	75	96	2.243	ug/l #	42
65) Chlorobenzene	11.43	112	7368	0.484	ug/l	93
71) Bromoform	12.40	173	2685	2.901	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	179310	36.166	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179310	119.939	ug/l #	11
87) 1,3-Dichlorobenzene	13.28	146	2143	0.207	ug/l	92
88) 1,4-Dichlorobenzene	13.28	146	2143	0.213	ug/l	90
91) 1,2-Dichlorobenzene	13.66	146	8449	0.843	ug/l	90

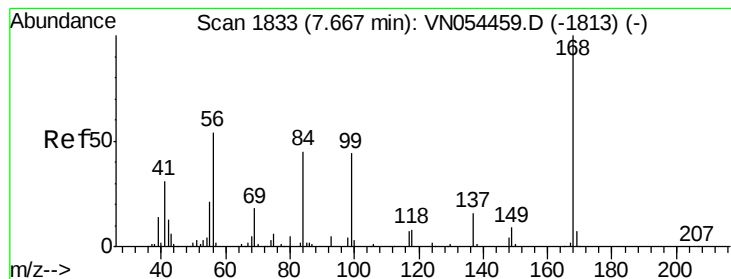
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.01 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

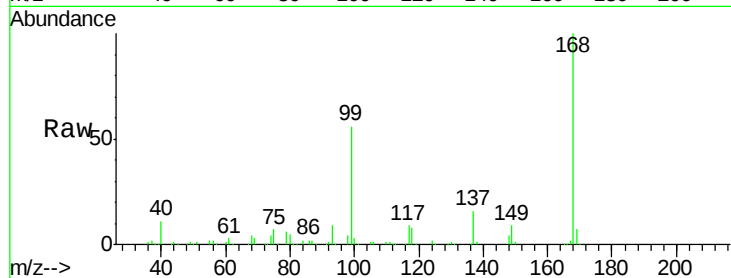
WP022SB429-190319-(23-25)ME

Tot Ion:168 Resp: 536045

Ion Ratio Lower Upper

168 100

99 55.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

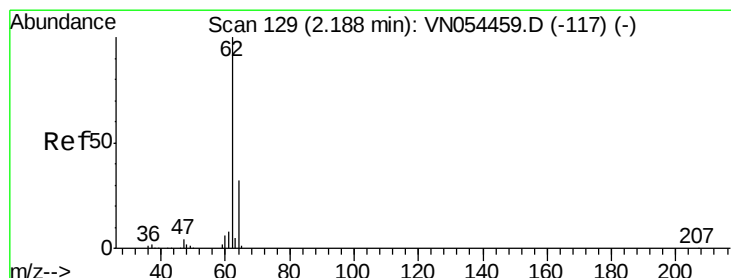
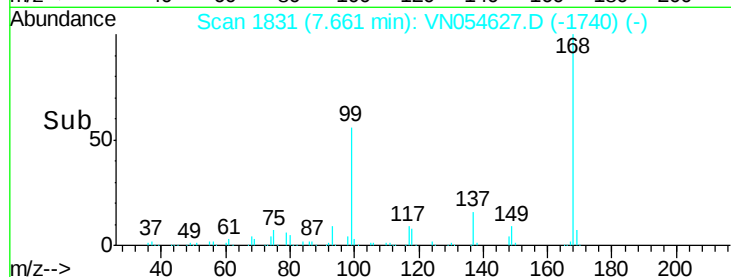
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 1.392 ug/l

RT: 2.19 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN054627.D

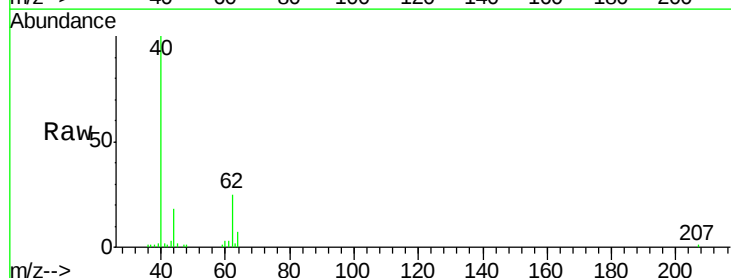
Acq: 24 Mar 2019 2:31

Tgt Ion: 62 Resp: 9741

Ion Ratio Lower Upper

62 100

64 28.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.19

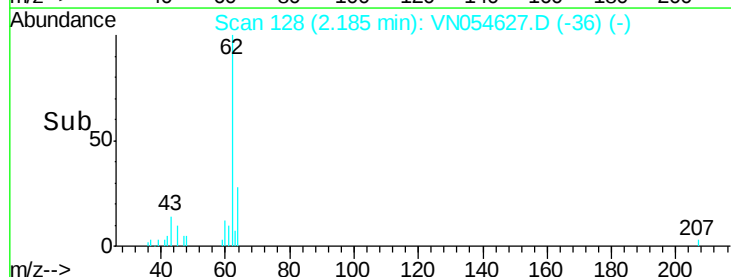
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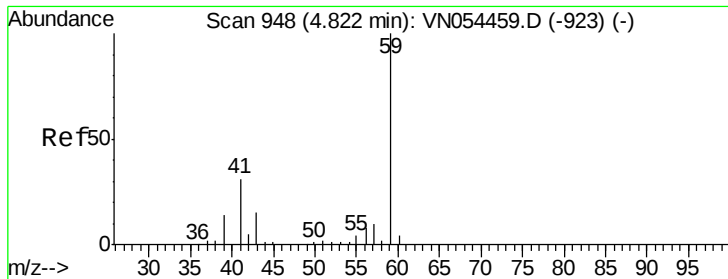
4000

2000

0

Time-->

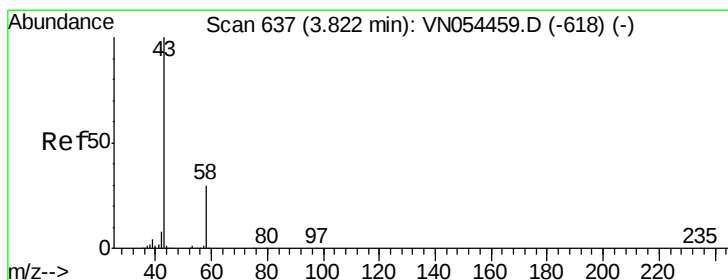
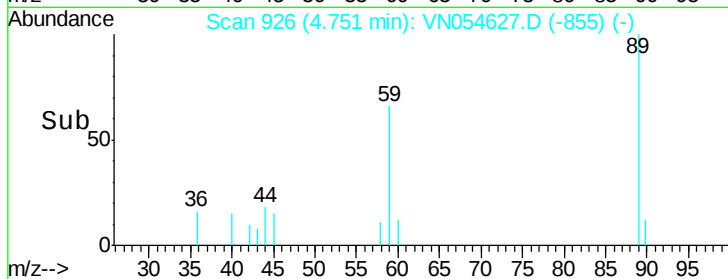
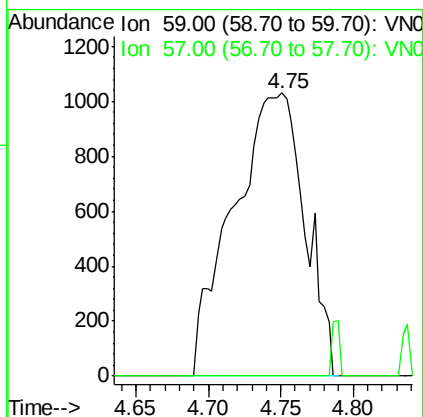
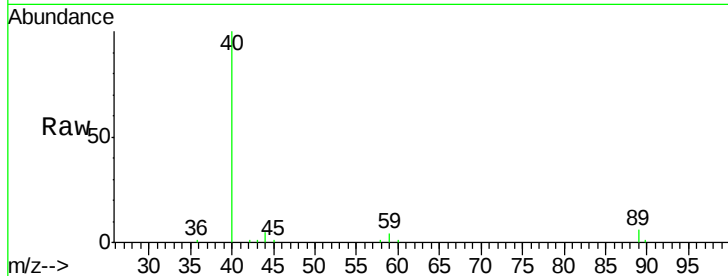




#11
Tert butyl alcohol
Concen: 8.784 ug/l
RT: 4.75 min Scan# 926
Delta R.T. -0.07 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

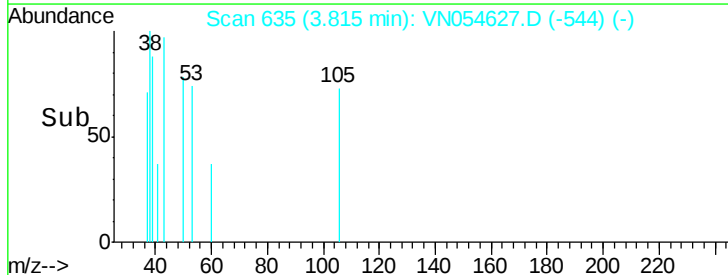
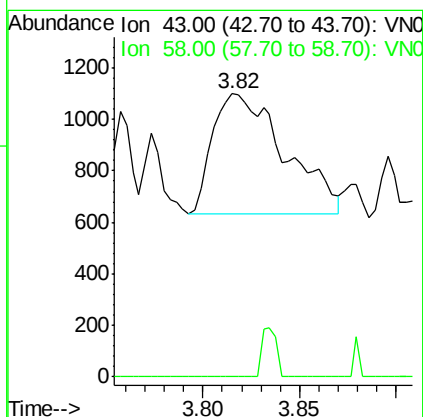
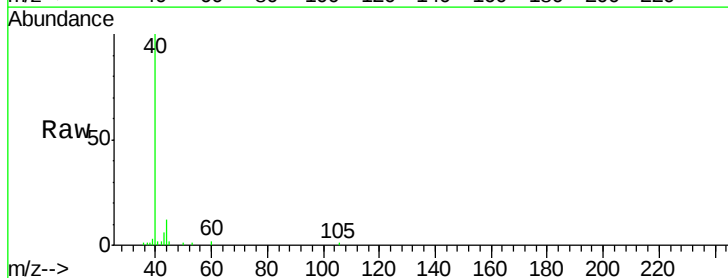
Instrument :
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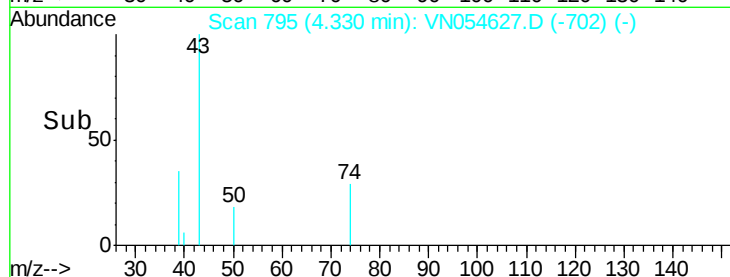
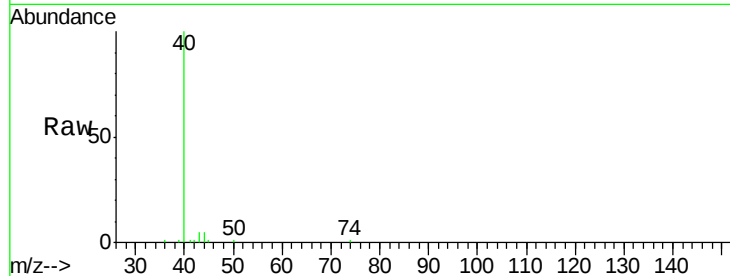
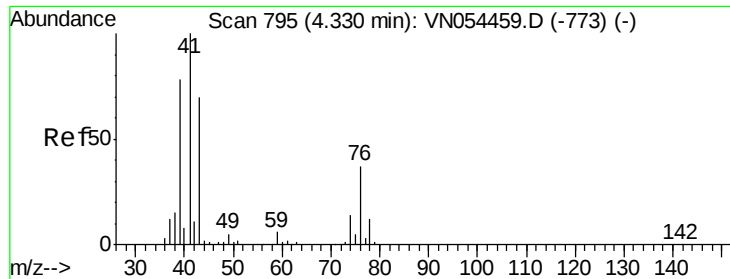
Tot Ion: 59 Resp: 3546
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.6#



#16
Acetone
Concen: 0.605 ug/l
RT: 3.82 min Scan# 635
Delta R.T. -0.01 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

Tgt Ion: 43 Resp: 1213
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#

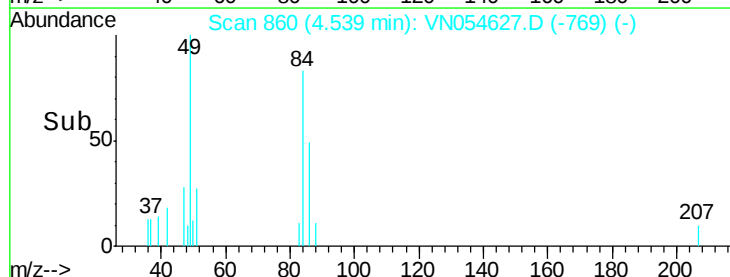
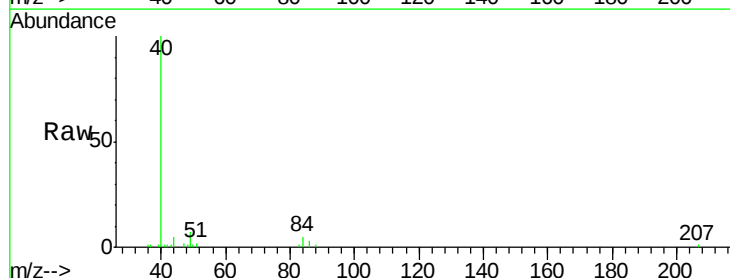
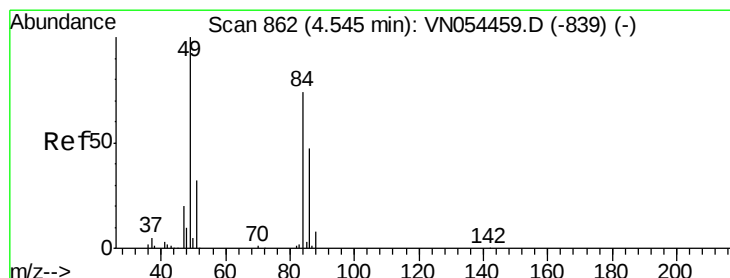
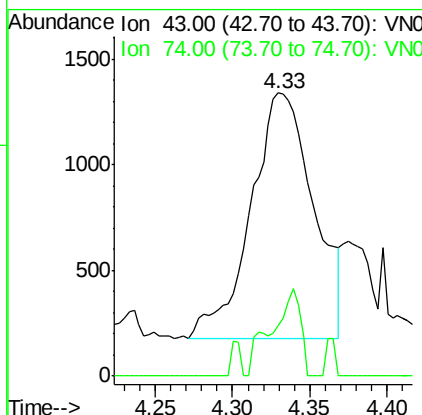




#18
Methyl Acetate
Concen: 0.735 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

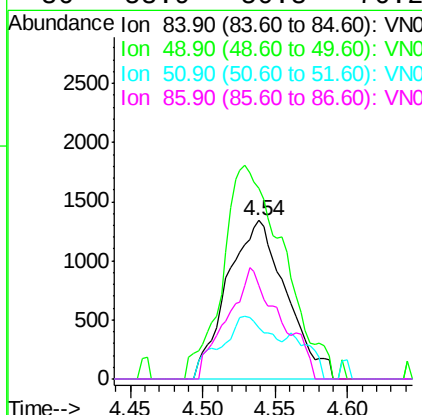
Instrument :
MSVOA_N
ClientSampleId :
WP022SB429-190319-(23-25)ME

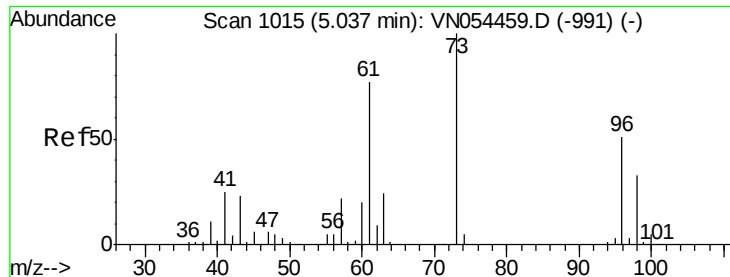
Tot Ion: 43 Resp: 3284
Ion Ratio Lower Upper
43 100
74 11.8 20.8 31.2#



#20
Methylene Chloride
Concen: 0.642 ug/l
RT: 4.54 min Scan# 860
Delta R.T. -0.01 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

Tgt Ion: 84 Resp: 3791
Ion Ratio Lower Upper
84 100
49 120.1 89.7 134.5
51 32.1 28.2 42.4
86 58.9 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 0.429 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. -0.02 min

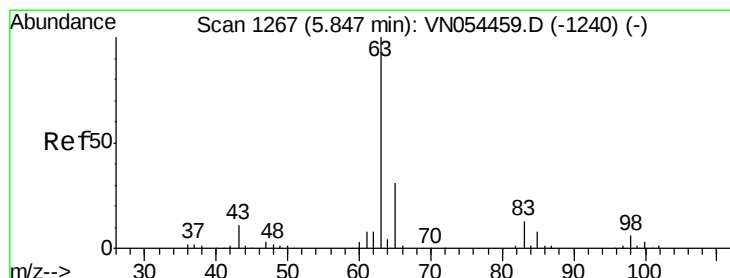
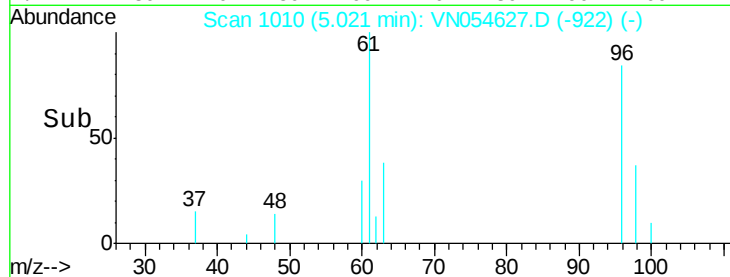
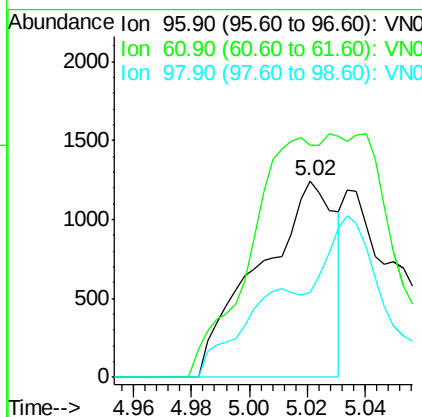
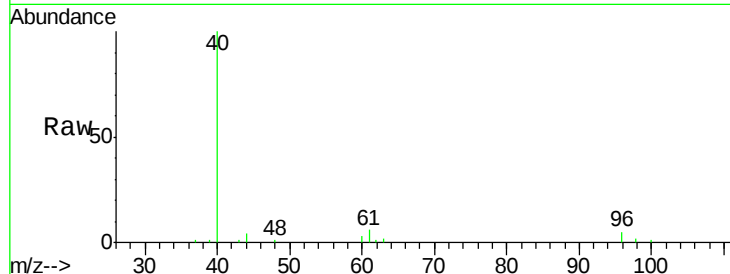
Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :
MSVOA_N
ClientSampleId :
WP022SB429-190319-(23-25)ME

Tot Ion: 96 Resp: 2264

Ion	Ratio	Lower	Upper
96	100		
61	118.4	102.8	154.2
98	43.2	50.0	75.0#



#24

1,1-Dichloroethane

Concen: 0.457 ug/l

RT: 5.85 min Scan# 1267

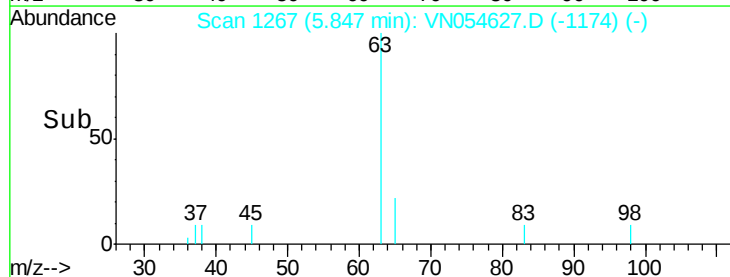
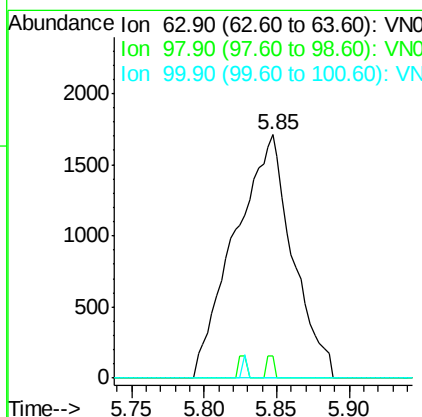
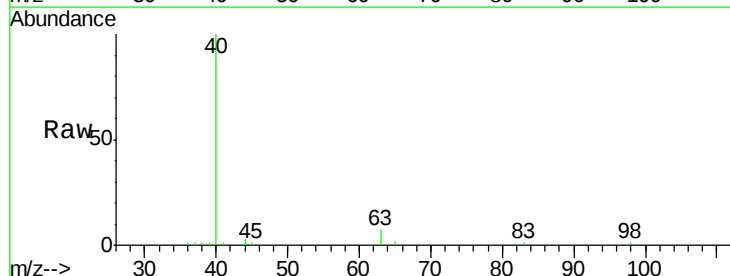
Delta R.T. 0.00 min

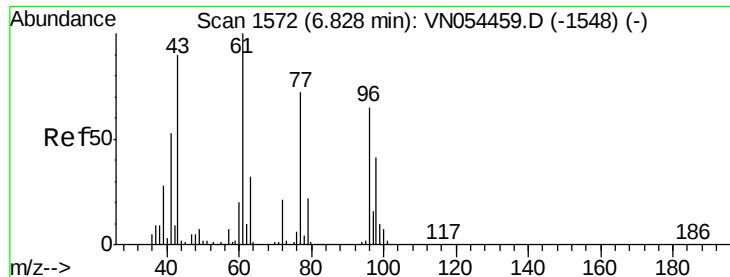
Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Tgt Ion: 63 Resp: 4729

Ion	Ratio	Lower	Upper
63	100		
98	9.1	3.5	10.5
100	0.0	2.0	6.0#





#27

cis-1,2-Dichloroethene

Concen: 13.902 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

WP022SB429-190319-(23-25)ME

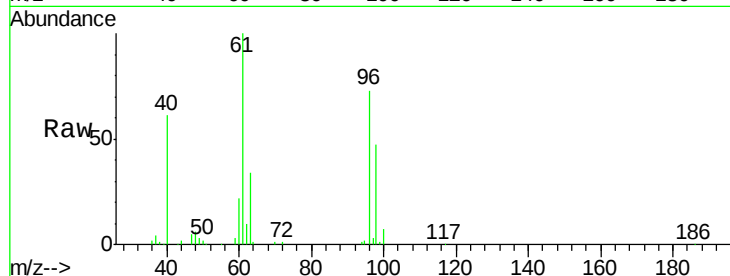
Tot Ion: 96 Resp: 87542

Ion Ratio Lower Upper

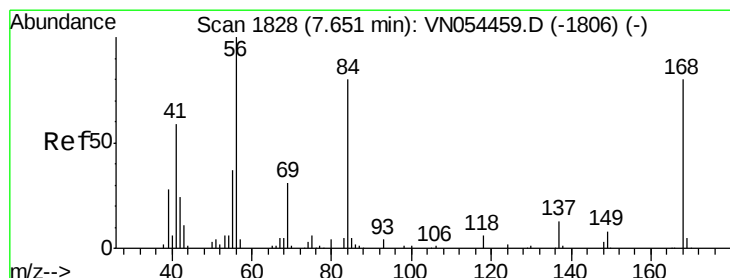
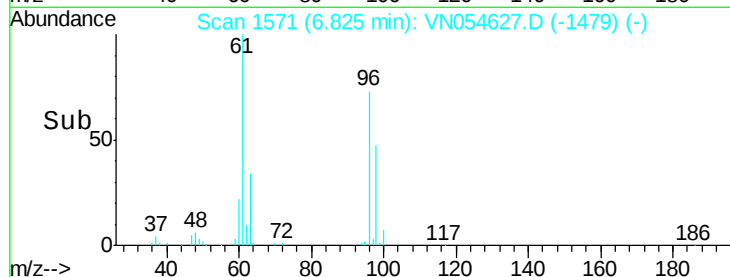
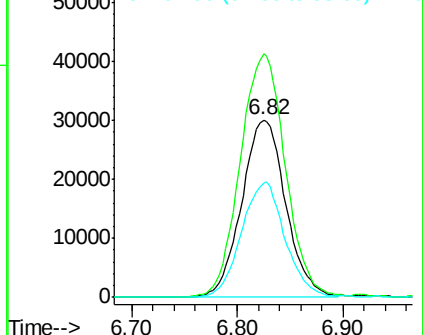
96 100

61 140.4 0.0 273.0

98 64.3 0.0 130.6



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



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

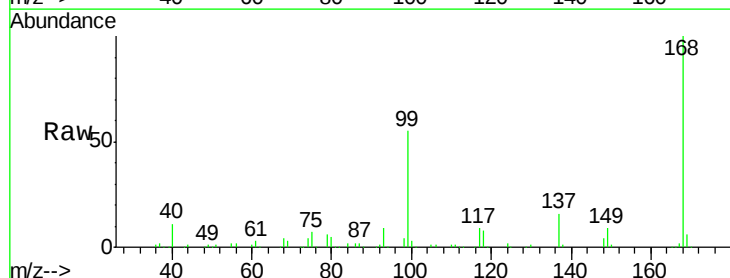
Tgt Ion: 56 Resp: 11378

Ion Ratio Lower Upper

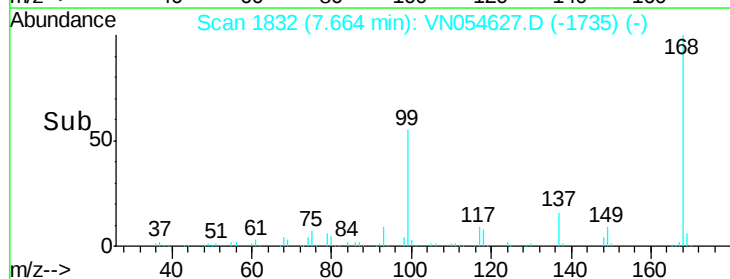
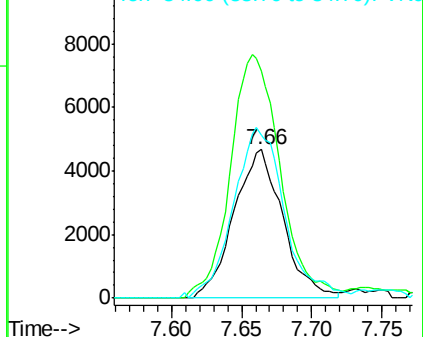
56 100

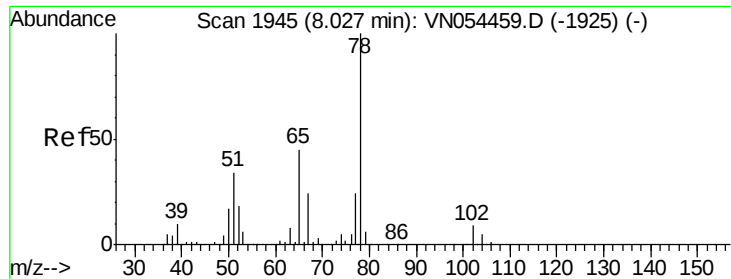
69 148.5 27.8 41.6#

84 109.9 74.6 111.8



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

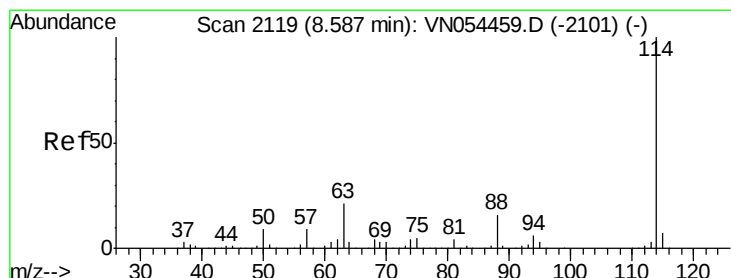
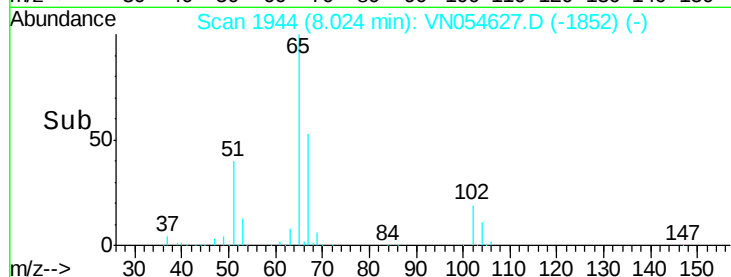
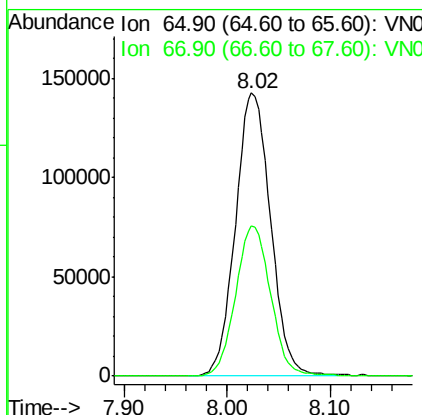
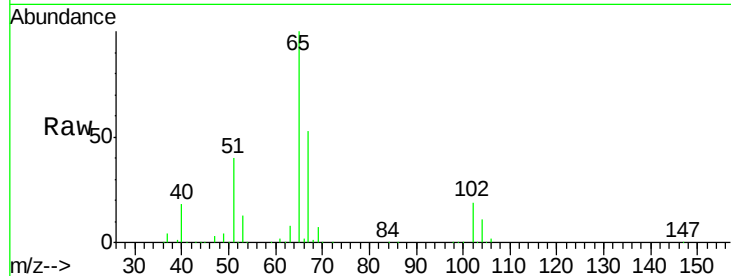




#33
 1,2-Dichloroethane-d4
 Concen: 50.761 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

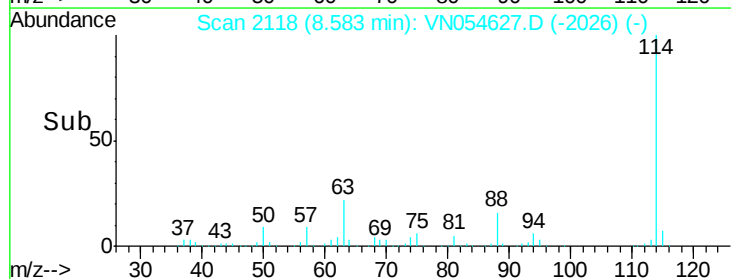
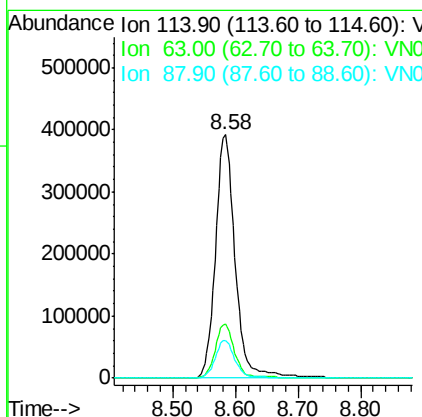
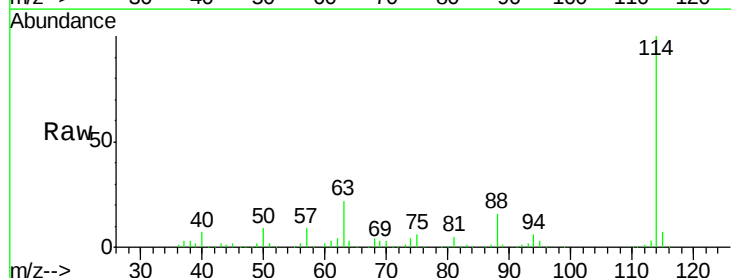
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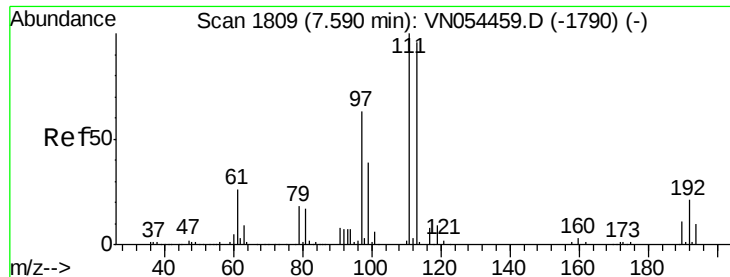
Tot Ion: 65 Resp: 338454
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

Tgt Ion: 114 Resp: 860077
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 15.5 0.0 30.2

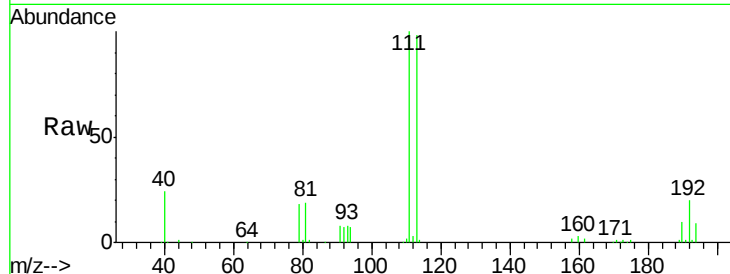




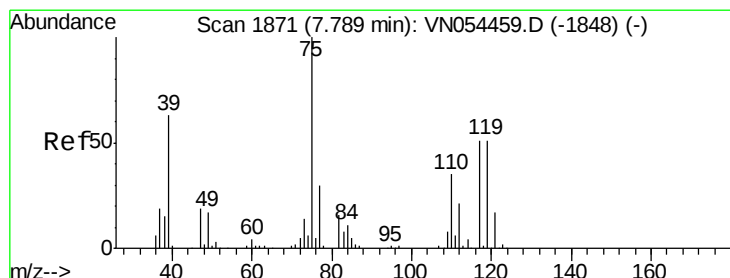
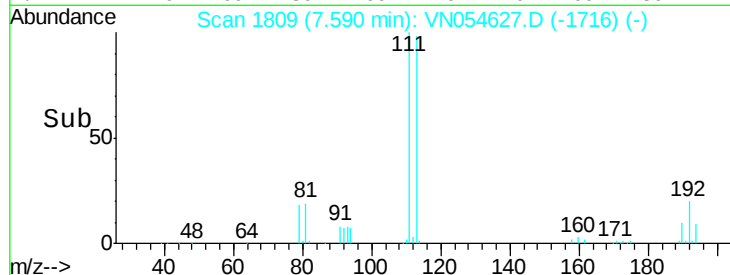
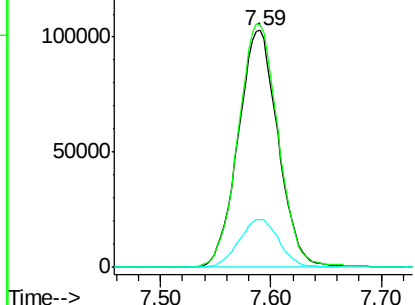
#35
 Dibromofluoromethane
 Concen: 46.543 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB429-190319-(23-25)ME

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	20.4	19.2	28.8

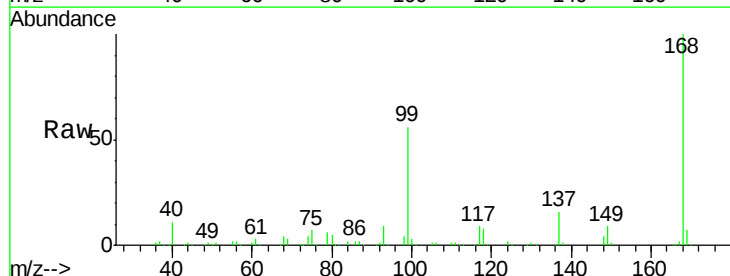


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

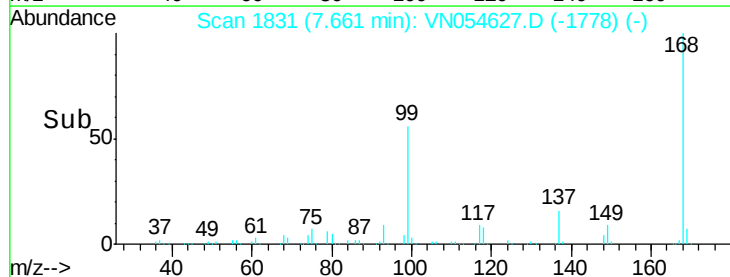
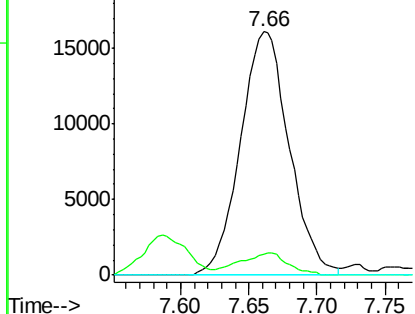


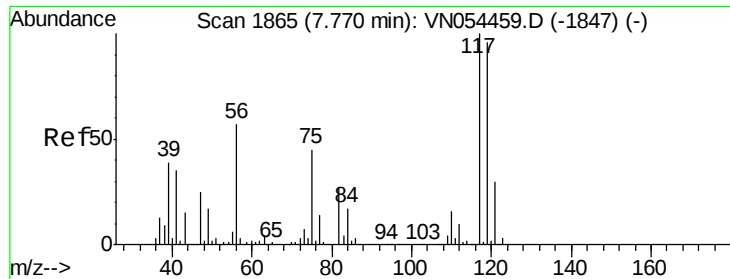
#36
 1,1-Dichloropropene
 Concen: 4.963 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.1	57.5#
77	0.0	25.0	37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.297 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

WP022SB429-190319-(23-25)ME

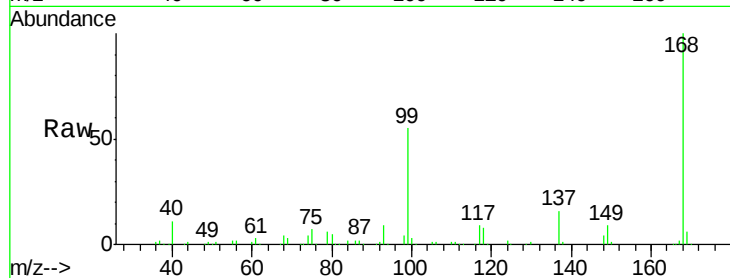
Tot Ion:117 Resp: 49207

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

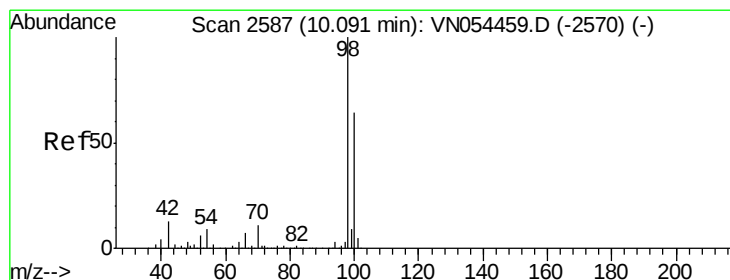
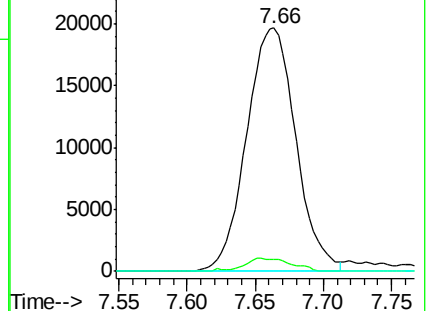
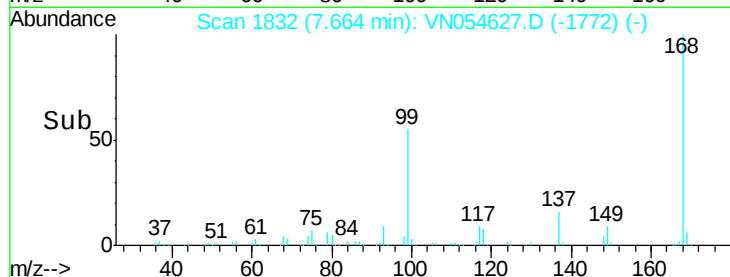
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.134 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN054627.D

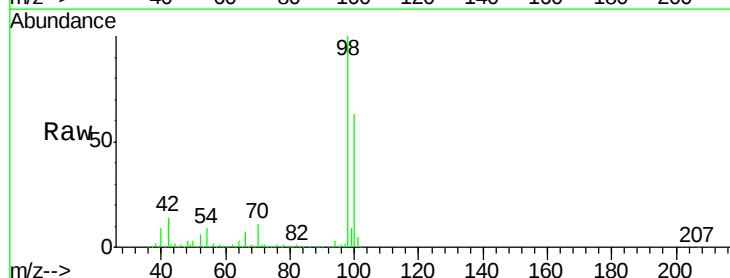
Acq: 24 Mar 2019 2:31

Tgt Ion: 98 Resp: 1044327

Ion Ratio Lower Upper

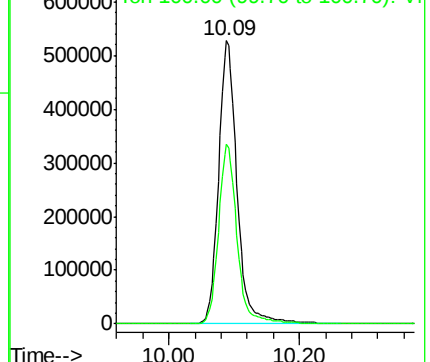
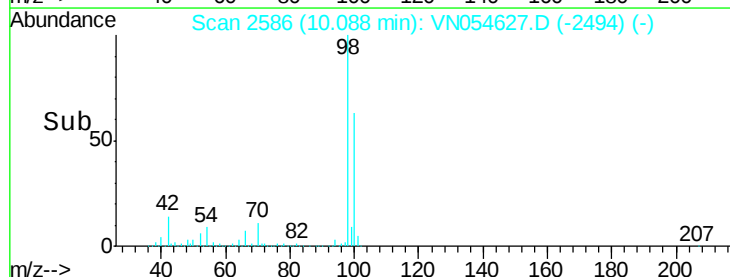
98 100

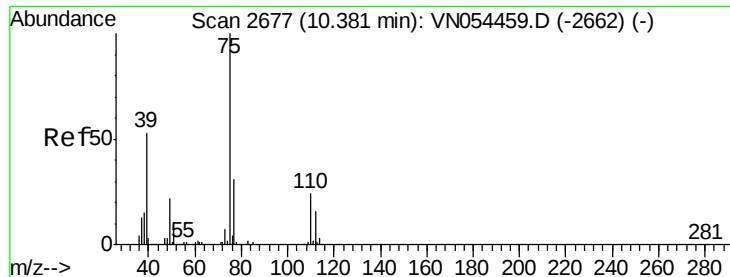
100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#53

t-1,3-Dichloropropene

Concen: 2.243 ug/l

RT: 10.25 min Scan# 2636

Delta R.T. -0.13 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

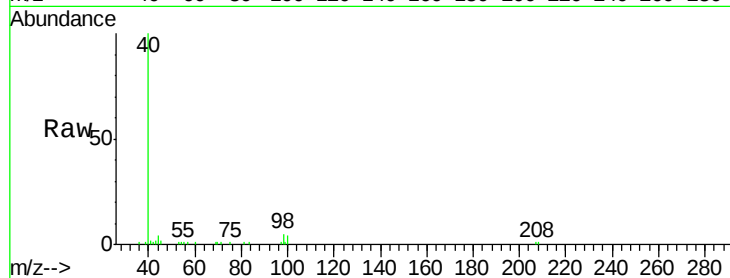
WP022SB429-190319-(23-25)ME

Tot Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#



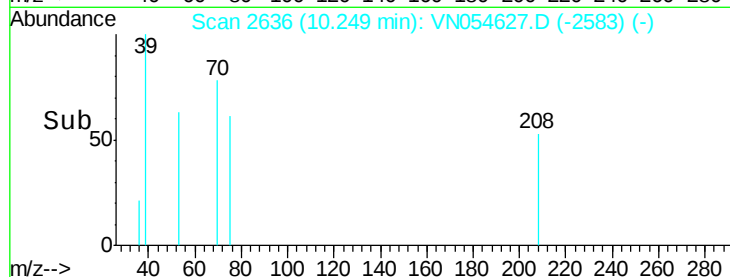
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

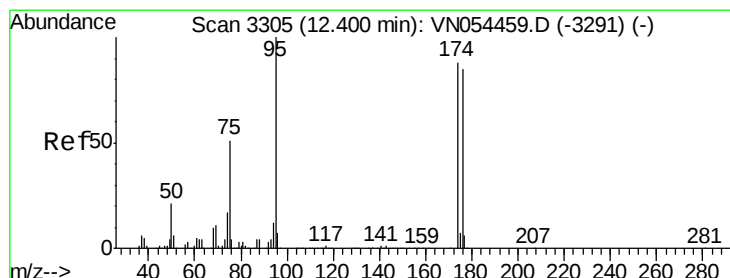
10.25

10.24

10.26



Time-->



#62

4-Bromofluorobenzene

Concen: 48.984 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

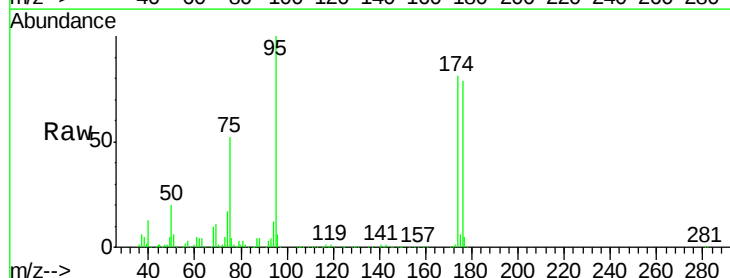
Tgt Ion: 95 Resp: 347218

Ion Ratio Lower Upper

95 100

174 82.8 0.0 191.0

176 81.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

250000

200000

150000

100000

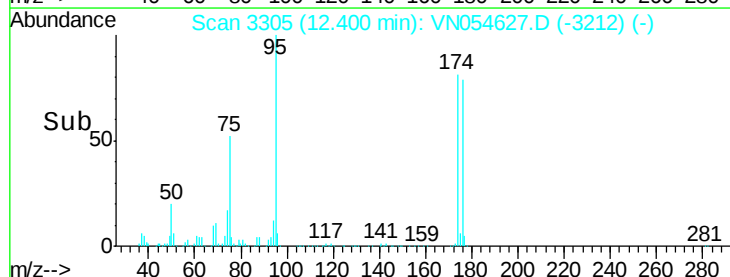
50000

0

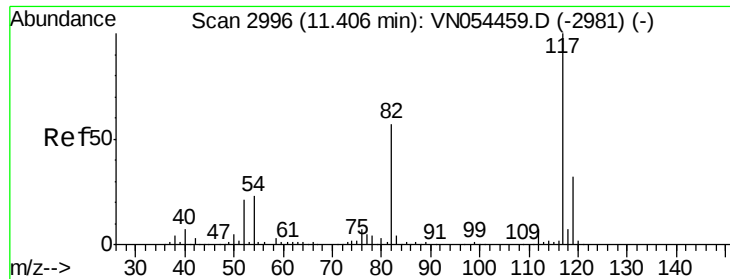
12.30

12.40

12.50



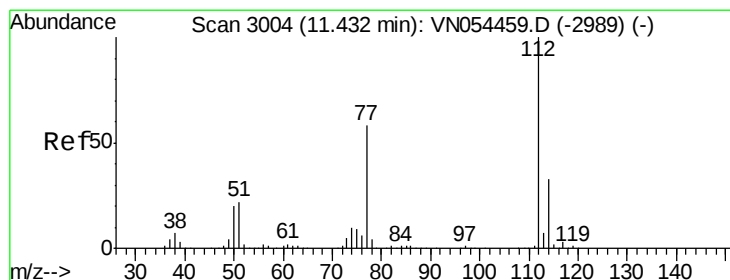
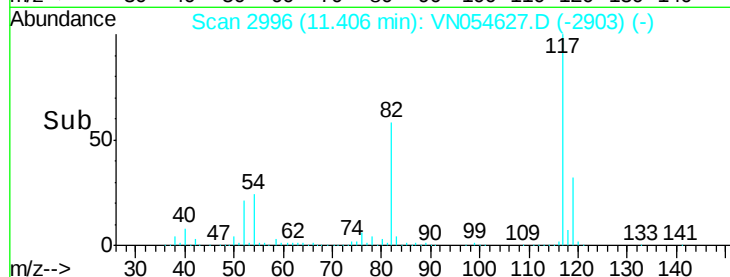
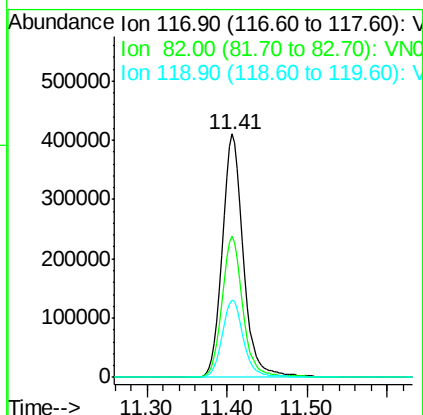
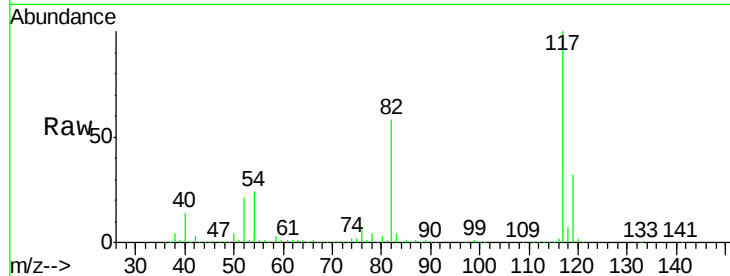
Time-->



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

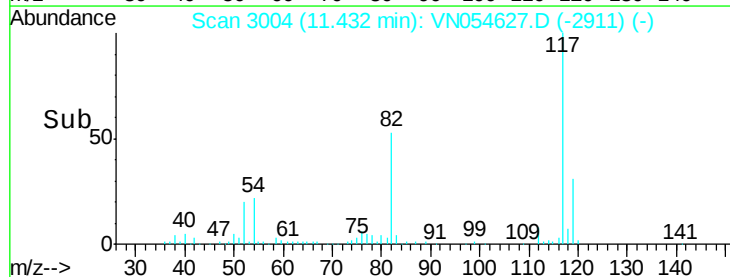
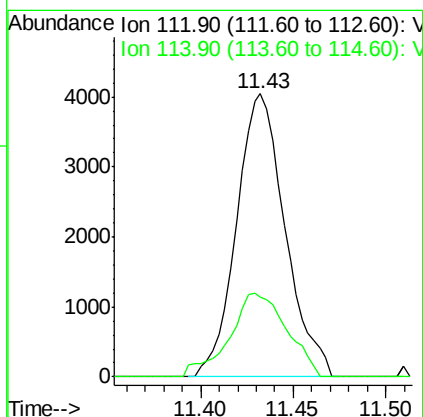
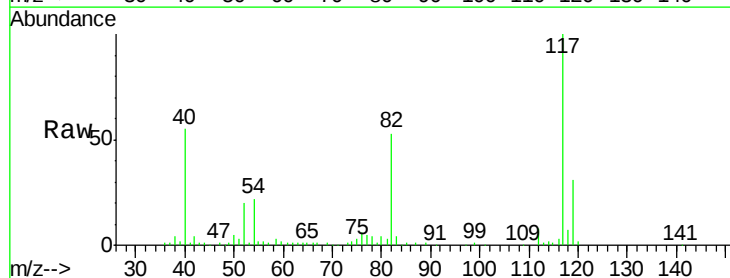
Instrument :
MSVOA_N
ClientSampleId :
WP022SB429-190319-(23-25)ME

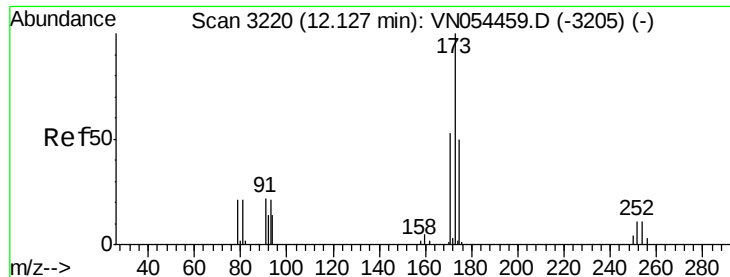
Tot Ion:117 Resp: 748705
Ion Ratio Lower Upper
117 100
82 57.7 40.0 60.0
119 31.7 25.8 38.6



#65
Chlorobenzene
Concen: 0.484 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054627.D
Acq: 24 Mar 2019 2:31

Tgt Ion:112 Resp: 7368
Ion Ratio Lower Upper
112 100
114 28.4 25.9 38.9





#71

Bromoform

Concen: 2.901 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

WP022SB429-190319-(23-25)ME

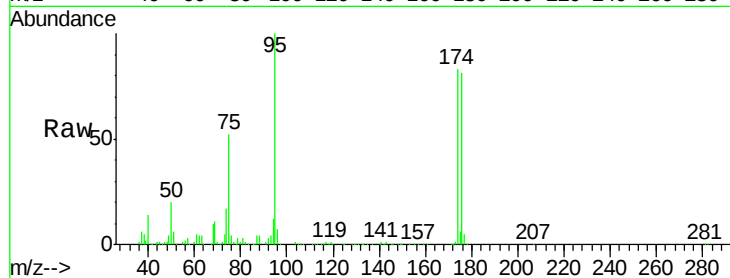
Tot Ion:173 Resp: 2685

Ion Ratio Lower Upper

173 100

175 689.5 24.4 73.2#

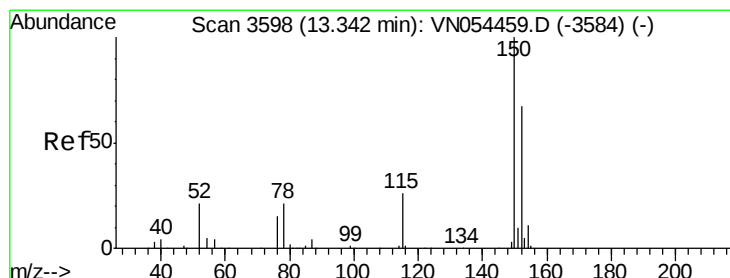
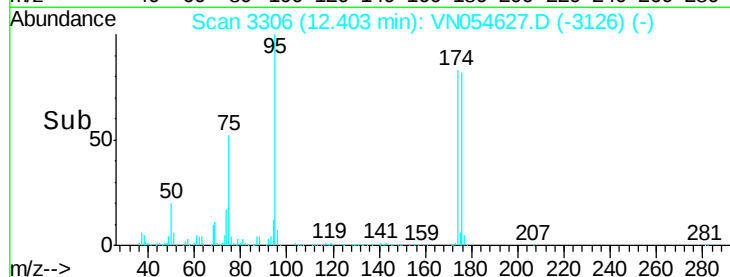
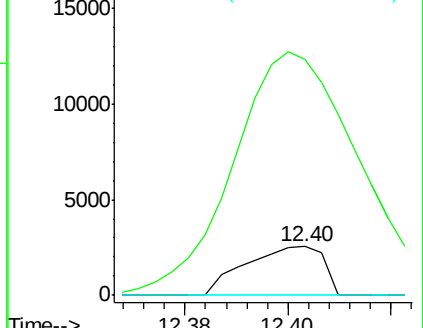
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

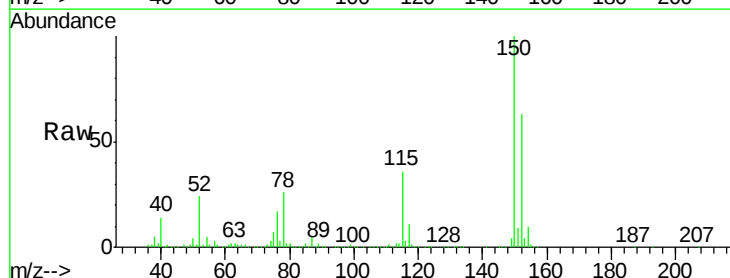
Tgt Ion:152 Resp: 312444

Ion Ratio Lower Upper

152 100

115 58.6 27.2 81.6

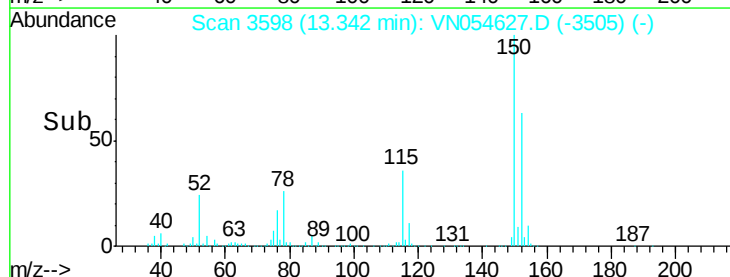
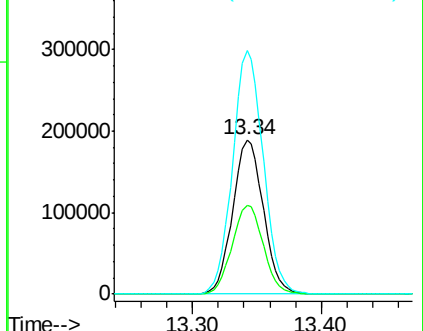
150 157.9 0.0 349.2

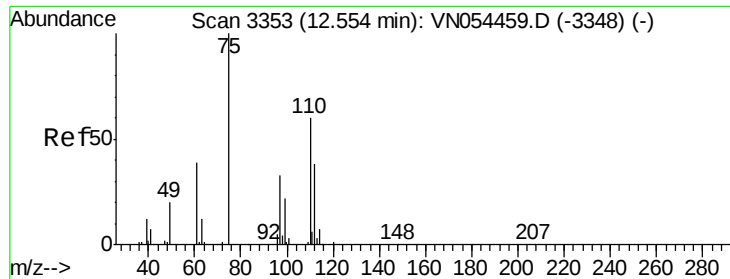


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 36.166 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

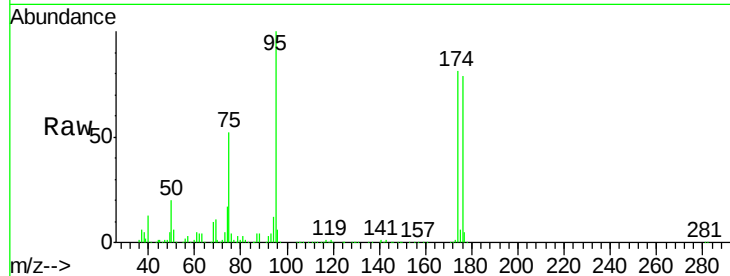
WP022SB429-190319-(23-25)ME

Tot Ion: 75 Resp: 179310

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

12.40

120000

100000

80000

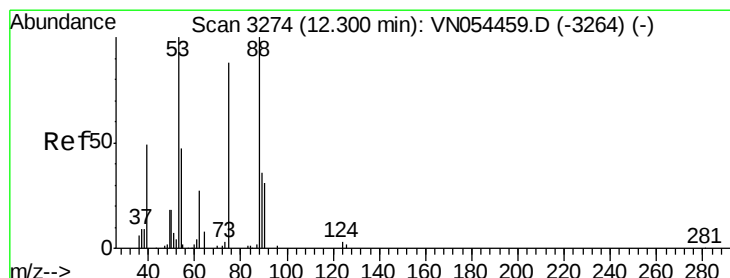
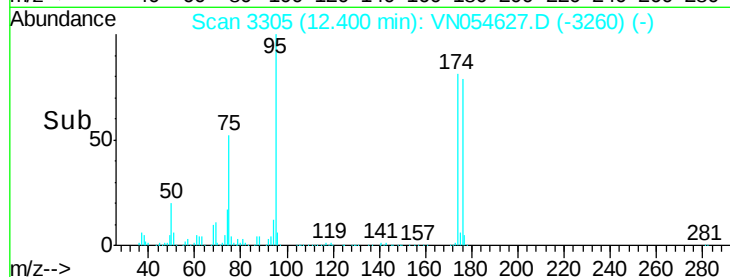
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 119.939 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

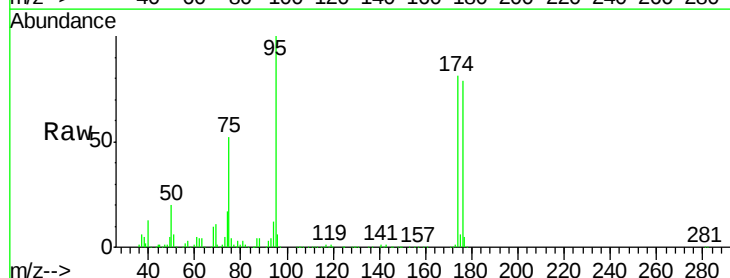
Tgt Ion: 75 Resp: 179310

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.0 39.2 58.8#



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

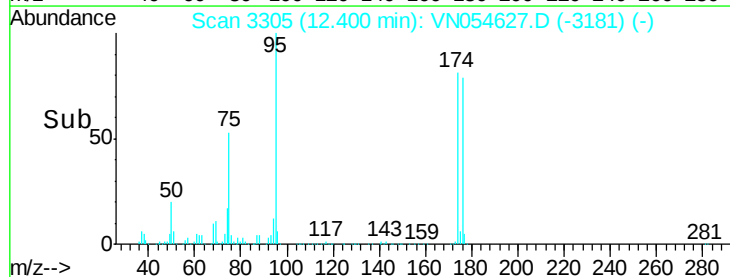
12.40

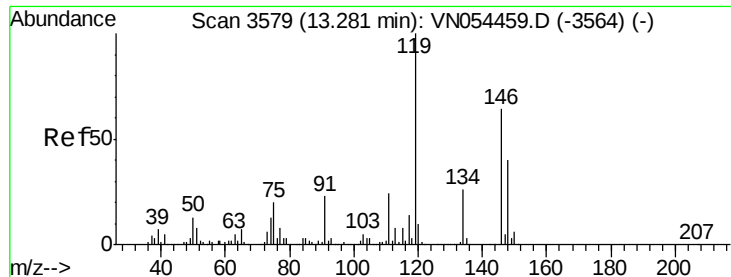
100000

50000

0

Time--> 12.30 12.40 12.50

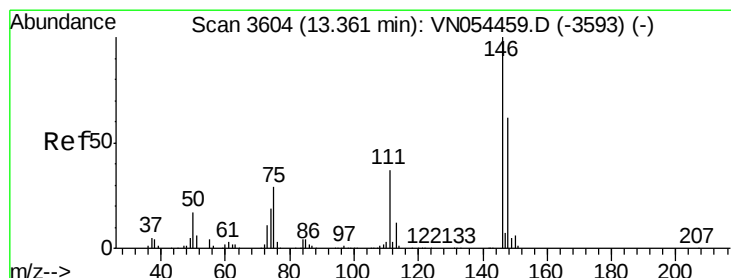
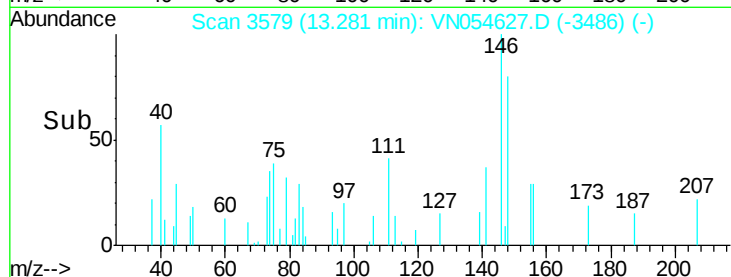
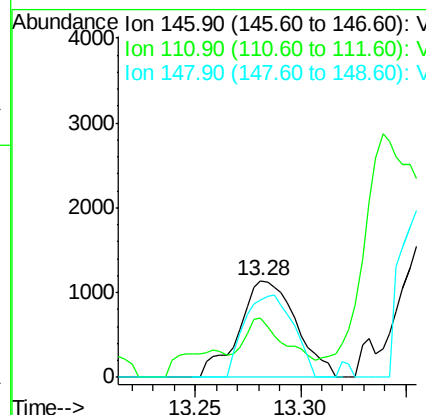
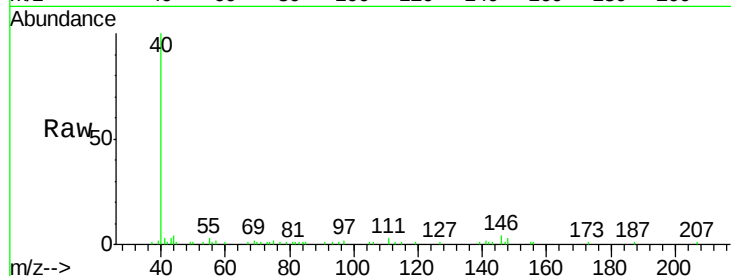




#87
 1,3-Dichlorobenzene
 Concen: 0.207 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

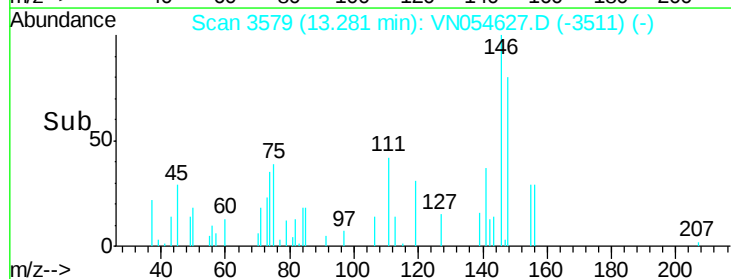
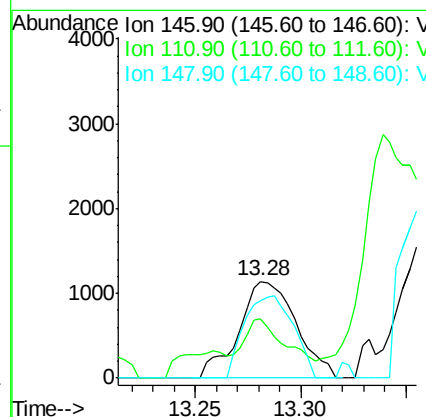
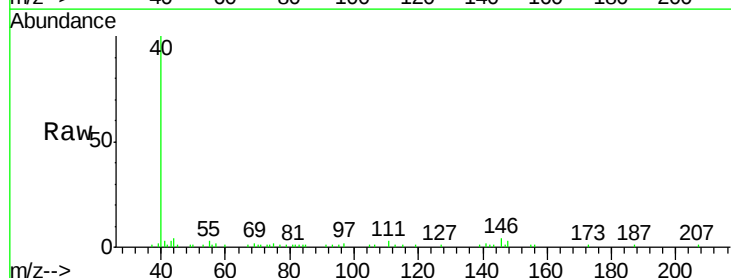
Instrument :
 MSVOA_N
 ClientSampleId :
 WP022SB429-190319-(23-25)ME

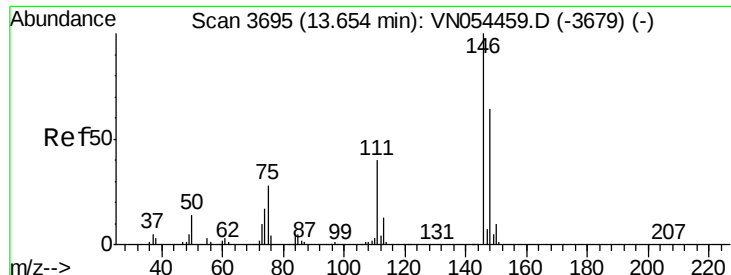
Tot Ion:146 Resp: 2143
 Ion Ratio Lower Upper
 146 100
 111 39.8 18.8 56.3
 148 73.2 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 0.213 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.08 min
 Lab File: VN054627.D
 Acq: 24 Mar 2019 2:31

Tgt Ion:146 Resp: 2143
 Ion Ratio Lower Upper
 146 100
 111 39.8 18.1 54.1
 148 73.2 32.0 96.0





#91

1,2-Dichlorobenzene

Concen: 0.843 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.00 min

Lab File: VN054627.D

Acq: 24 Mar 2019 2:31

Instrument :

MSVOA_N

ClientSampleId :

WP022SB429-190319-(23-25)ME

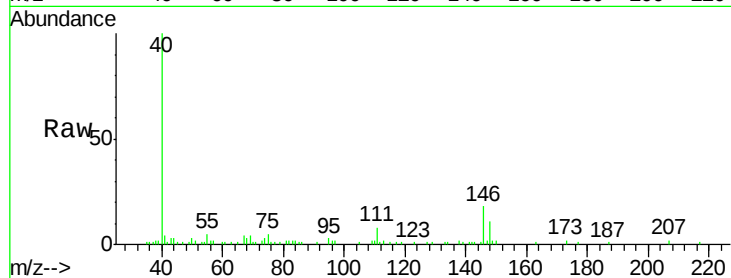
Tot Ion:146 Resp: 8449

Ion Ratio Lower Upper

146 100

111 52.0 19.1 57.3

148 62.4 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

