

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054531.D
 Acq On : 22 Mar 2019 1:20
 Operator : JC/SP
 Sample : VN0321WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

Quant Time: Mar 22 10:19:23 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	445311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	773007	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	644271	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266324	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	332472	60.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.04%	
35) Dibromofluoromethane	7.59	113	264450	53.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.20%	
50) Toluene-d8	10.09	98	957156	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.40	95	310250	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	92817	21.803	ug/l	97
3) Chloromethane	2.06	50	130026	22.449	ug/l	98
4) Vinyl Chloride	2.19	62	127714	21.962	ug/l	100
5) Bromomethane	2.57	94	72989	19.411	ug/l	96
6) Chloroethane	2.71	64	72312	20.732	ug/l	98
7) Trichlorofluoromethane	3.02	101	154847	21.926	ug/l	100
8) Diethyl Ether	3.41	74	56117	20.661	ug/l	72
9) 1,1,2-Trichlorotrifluoroet	3.75	101	78653	18.950	ug/l	95
10) Methyl Iodide	3.94	142	109097	17.869	ug/l	93
11) Tert butyl alcohol	4.83	59	43640	130.136	ug/l #	70
12) 1,1-Dichloroethene	3.73	96	86210	20.071	ug/l #	78
13) Acrolein	3.61	56	45598	98.532	ug/l	100
14) Allyl chloride	4.32	41	174797	21.612	ug/l #	94
15) Acrylonitrile	5.00	53	214605	128.509	ug/l	99
16) Acetone	3.82	43	160094	96.136	ug/l #	85
17) Carbon Disulfide	4.04	76	226014	19.639	ug/l	99
18) Methyl Acetate	4.33	43	98161	26.446	ug/l #	70
19) Methyl tert-butyl Ether	5.05	73	296305	23.638	ug/l	95
20) Methylene Chloride	4.54	84	108428	22.088	ug/l #	85
21) trans-1,2-Dichloroethene	5.04	96	102349	23.336	ug/l	88
22) Diisopropyl ether	5.96	45	376654	23.609	ug/l #	94
23) Vinyl Acetate	5.90	43	1368732	121.476	ug/l #	93
24) 1,1-Dichloroethane	5.85	63	204633	23.822	ug/l	97
25) 2-Butanone	6.85	43	258403	121.132	ug/l	92
26) 2,2-Dichloropropane	6.82	77	98510	16.088	ug/l	77
27) cis-1,2-Dichloroethene	6.83	96	119160	22.778	ug/l	93
28) Bromochloromethane	7.19	49	96976	22.936	ug/l #	75
29) Tetrahydrofuran	7.22	42	186834	134.964	ug/l #	85
30) Chloroform	7.37	83	194072	23.151	ug/l	96
31) Cyclohexane	7.65	56	191682	22.257	ug/l	88
32) 1,1,1-Trichloroethane	7.57	97	159566	23.072	ug/l	96
36) 1,1-Dichloropropene	7.79	75	144905	20.049	ug/l	96
37) Ethyl Acetate	6.94	43	121474	23.630	ug/l	95
38) Carbon Tetrachloride	7.77	117	139681	19.887	ug/l	96

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 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)
39) Methylcyclohexane	9.08	83	156194	18.892	ug/l	91
40) Benzene	8.04	78	430205	20.815	ug/l	99
41) Methacrylonitrile	7.18	41	66306	21.150	ug/l	92
42) 1,2-Dichloroethane	8.13	62	155846	20.705	ug/l	98
43) Isopropyl Acetate	8.17	43	196801	22.669	ug/l #	95
44) Trichloroethene	8.83	130	114173	19.870	ug/l	98
45) 1,2-Dichloropropane	9.12	63	122401	22.055	ug/l	99
46) Dibromomethane	9.21	93	72317	21.842	ug/l	89
47) Bromodichloromethane	9.40	83	141562	20.602	ug/l	95
48) Methyl methacrylate	9.20	41	104069	22.086	ug/l	87
49) 1,4-Dioxane	9.21	88	24045	456.447	ug/l	88
51) 4-Methyl-2-Pentanone	9.99	43	563334	117.082	ug/l	93
52) Toluene	10.16	92	257310	20.242	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	122841	18.423	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	155426	19.728	ug/l	91
55) 1,1,2-Trichloroethane	10.56	97	97595	21.358	ug/l	98
56) Ethyl methacrylate	10.43	69	131115	21.378	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	170199	21.427	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.70	63	264519	104.741	ug/l	91
59) 2-Hexanone	10.75	43	354082	112.666	ug/l	92
60) Dibromochloromethane	10.90	129	100454	20.660	ug/l	98
61) 1,2-Dibromoethane	11.01	107	93047	20.597	ug/l	97
64) Tetrachloroethene	10.63	164	107509	20.118	ug/l	95
65) Chlorobenzene	11.43	112	267601	20.422	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	103126	21.926	ug/l	99
67) Ethyl Benzene	11.51	91	467845	20.212	ug/l	99
68) m/p-Xylenes	11.62	106	346792	39.555	ug/l	94
69) o-Xylene	11.95	106	172543	20.152	ug/l	96
70) Styrene	11.96	104	279037	20.068	ug/l	97
71) Bromoform	12.13	173	60026	19.910	ug/l #	98
73) Isopropylbenzene	12.25	105	447499	20.852	ug/l	99
74) N-amyl acetate	12.07	43	146151	23.684	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.51	83	119441	24.381	ug/l	97
76) 1,2,3-Trichloropropane	12.55	75	137746	32.594	ug/l #	100
77) Bromobenzene	12.53	156	112431	21.123	ug/l	85
78) n-propylbenzene	12.59	91	488509	20.992	ug/l	96
79) 2-Chlorotoluene	12.67	91	302702	20.859	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	364474	20.722	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	19992	18.445	ug/l #	77
82) 4-Chlorotoluene	12.77	91	290146	20.627	ug/l	97
83) tert-Butylbenzene	12.99	119	325206	21.241	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	362936	21.029	ug/l	98
85) sec-Butylbenzene	13.17	105	402398	21.084	ug/l	97
86) p-Isopropyltoluene	13.29	119	350655	20.536	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	179736	20.377	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	171725	20.010	ug/l	98
89) n-Butylbenzene	13.62	91	259579	19.442	ug/l	98
90) Hexachloroethane	13.87	117	54919	20.721	ug/l	92
91) 1,2-Dichlorobenzene	13.65	146	178930	20.944	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	16859	23.462	ug/l	92

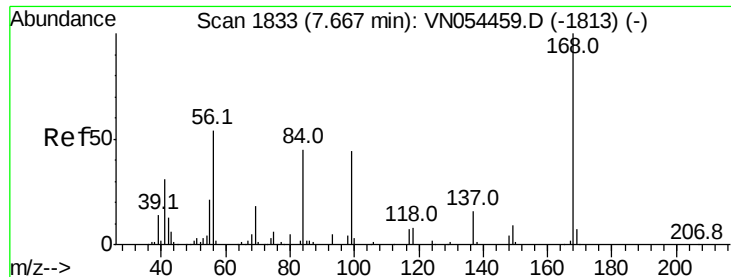
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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	82739	19.427	ug/l	100
94) Hexachlorobutadiene	15.01	225	53858	21.074	ug/l	97
95) Naphthalene	15.13	128	203243	21.395	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	87662	20.681	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

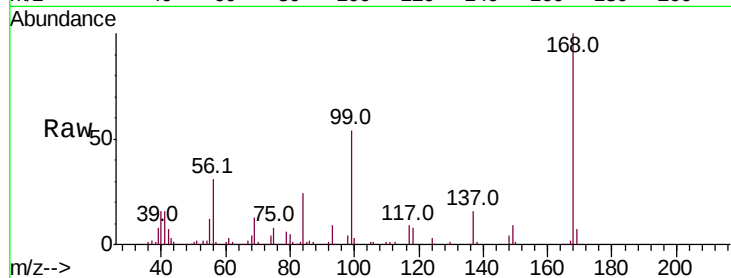
VN0321WBSD02

Tot Ion:168 Resp: 445311

Ion Ratio Lower Upper

168 100

99 53.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

150000

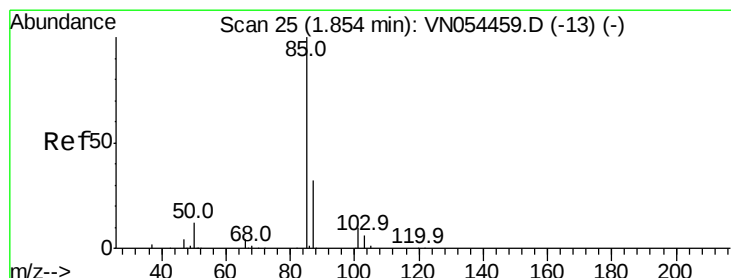
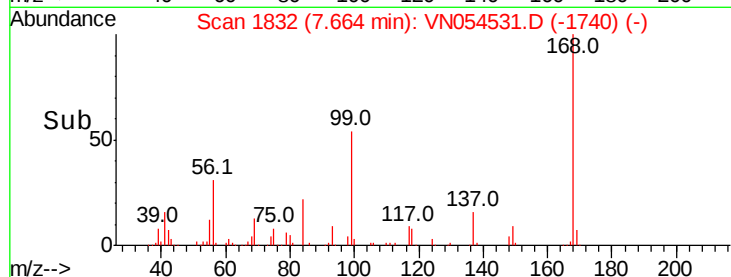
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 21.803 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN054531.D

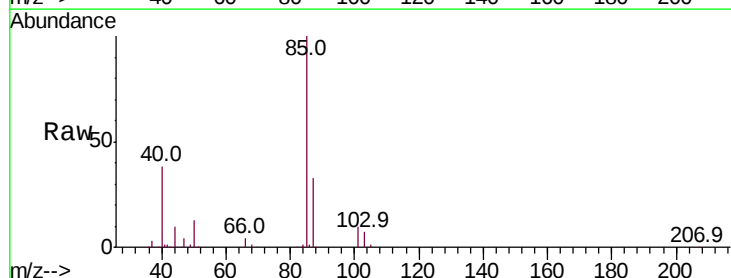
Acq: 22 Mar 2019 1:20

Tgt Ion: 85 Resp: 92817

Ion Ratio Lower Upper

85 100

87 33.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VN

1.85

60000

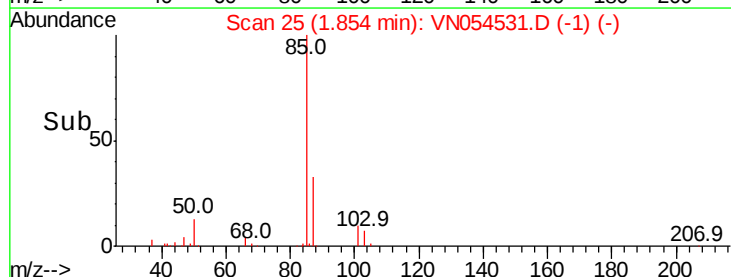
40000

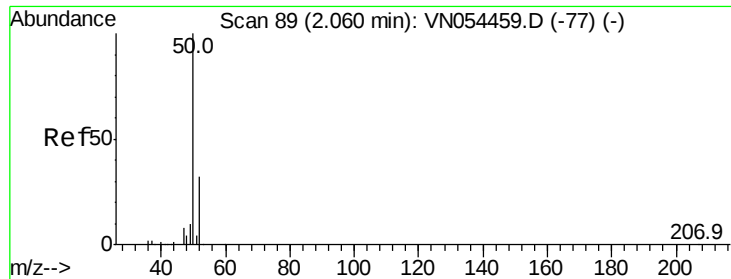
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 22.449 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

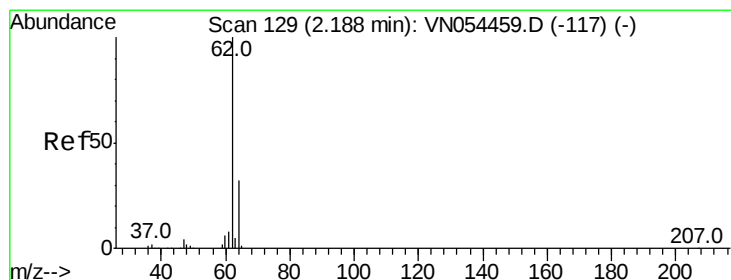
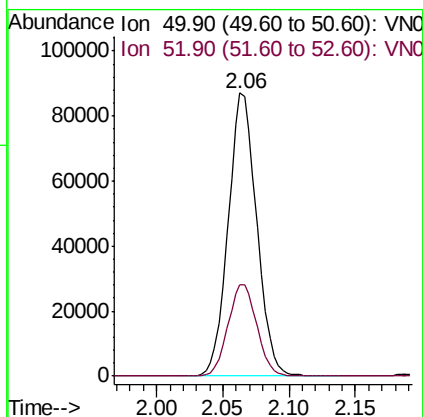
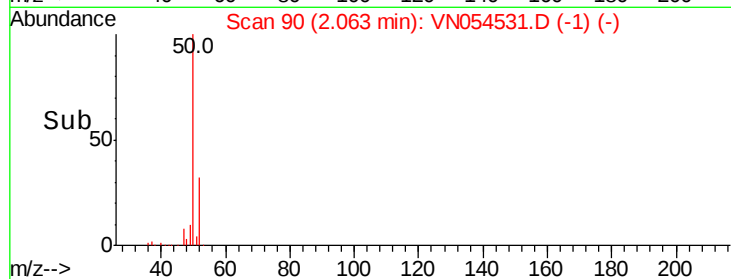
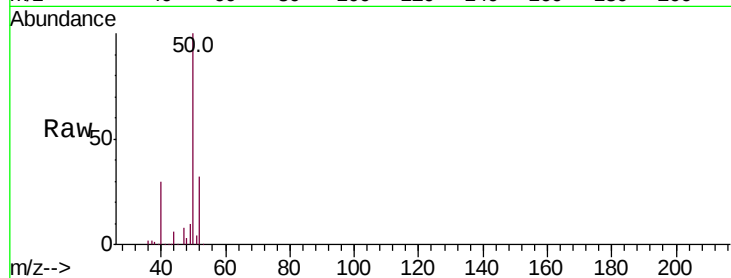
VN0321WBSD02

Tot Ion: 50 Resp: 130026

Ion Ratio Lower Upper

50 100

52 32.1 26.4 39.6



#4

Vinyl Chloride

Concen: 21.962 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054531.D

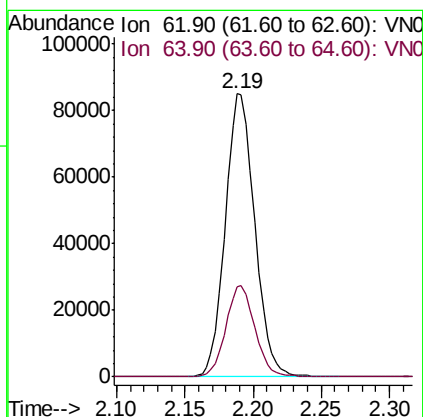
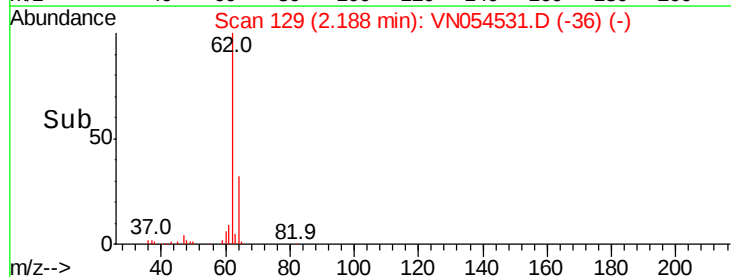
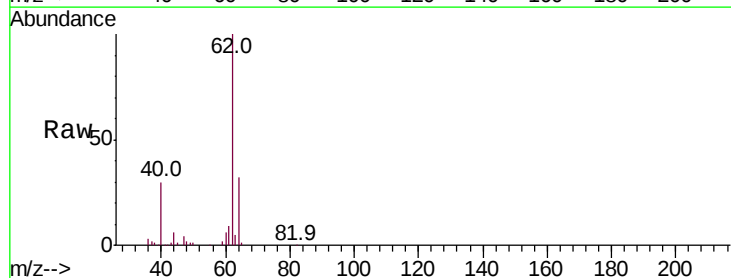
Acq: 22 Mar 2019 1:20

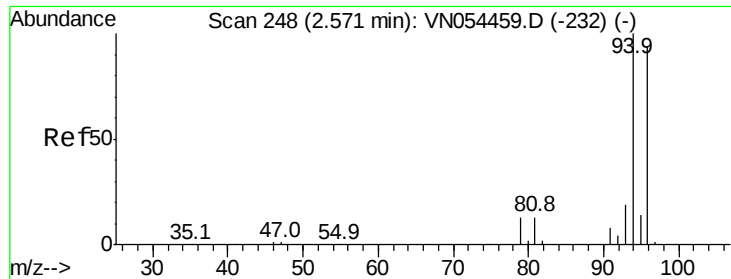
Tgt Ion: 62 Resp: 127714

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3





#5

Bromomethane

Concen: 19.411 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

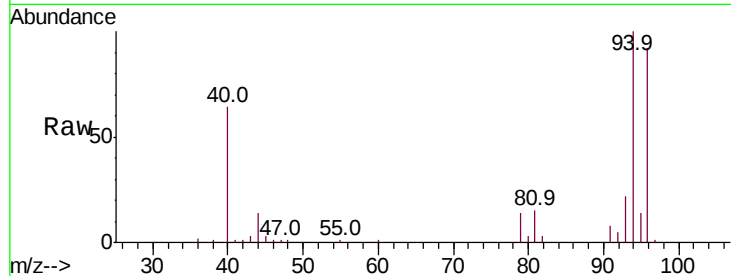
VN0321WBSD02

Tot Ion: 94 Resp: 72989

Ion Ratio Lower Upper

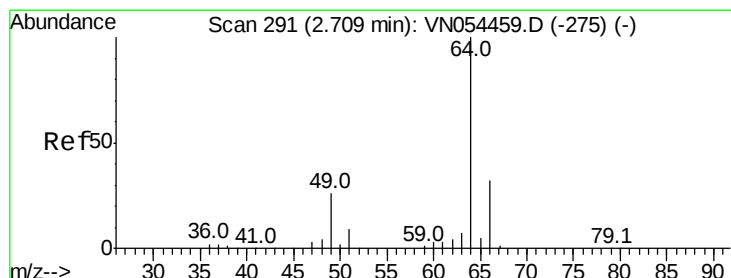
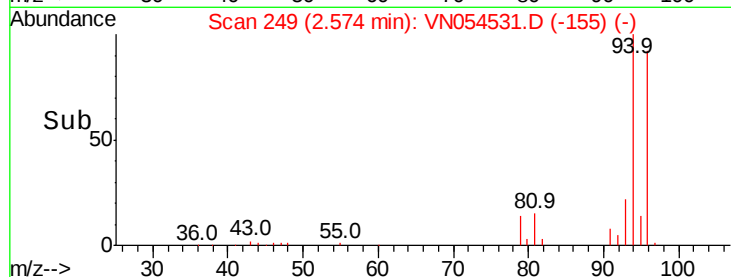
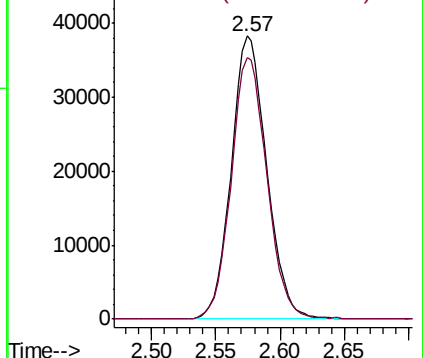
94 100

96 92.2 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.732 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054531.D

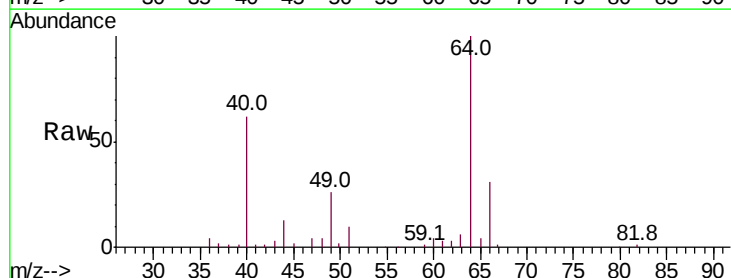
Acq: 22 Mar 2019 1:20

Tgt Ion: 64 Resp: 72312

Ion Ratio Lower Upper

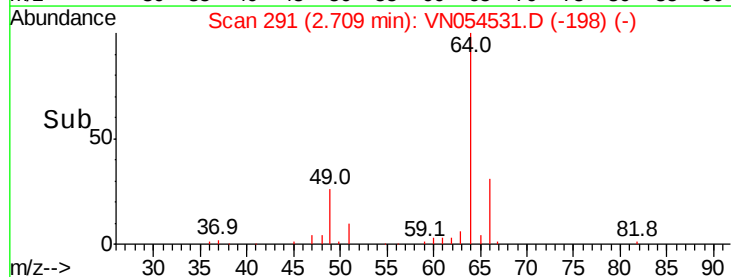
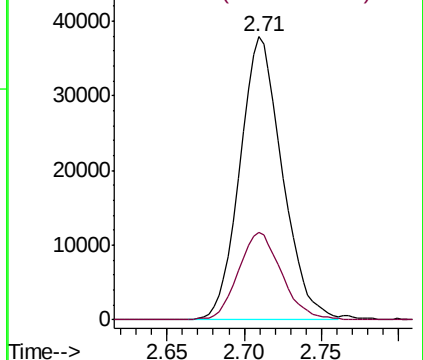
64 100

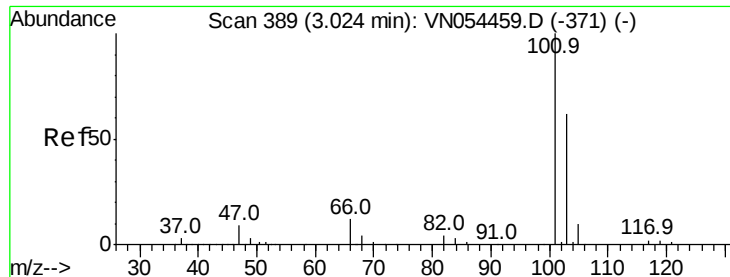
66 30.9 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



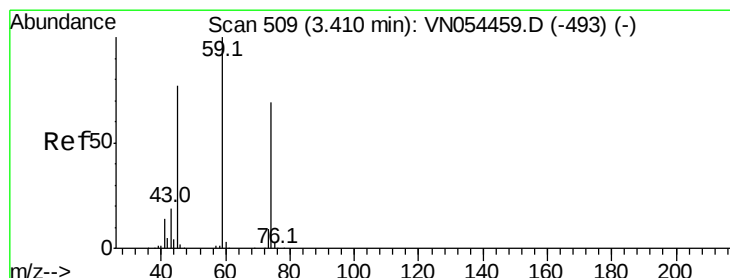
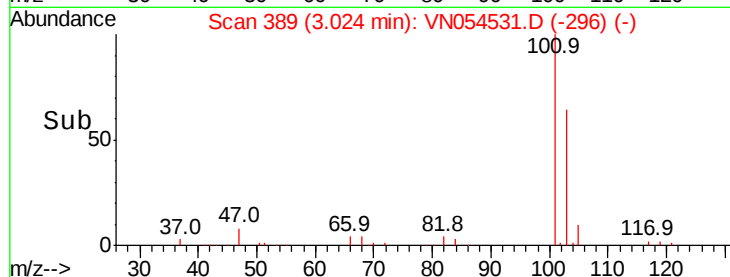
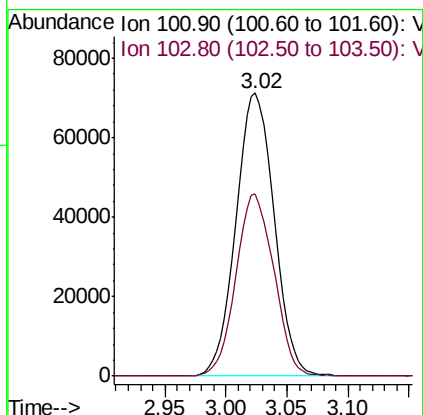
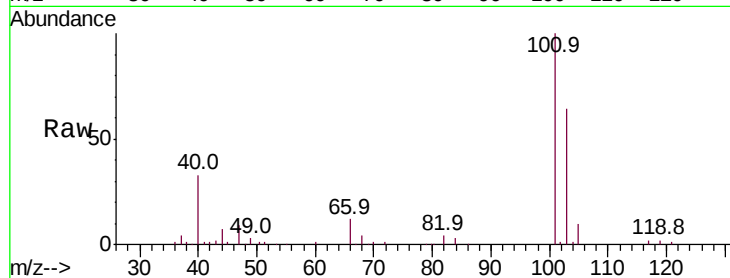


#7

Trichlorofluoromethane
Concen: 21.926 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
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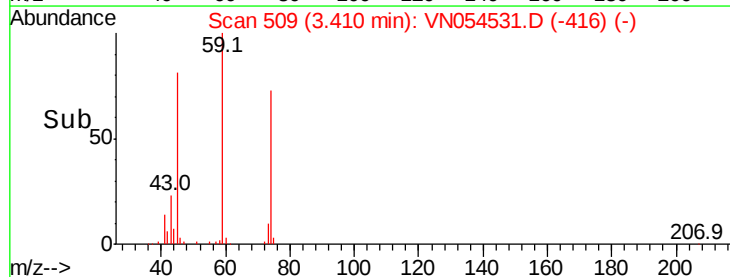
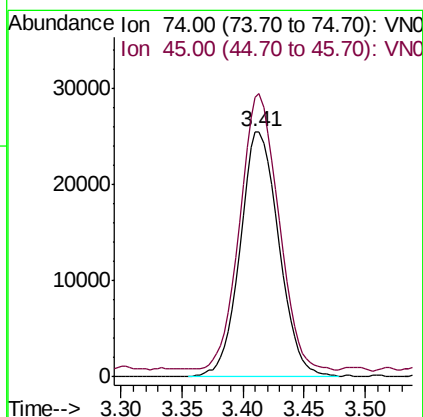
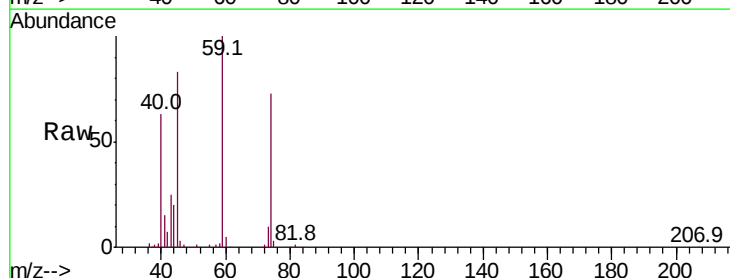
Tot Ion:101 Resp: 154847
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2

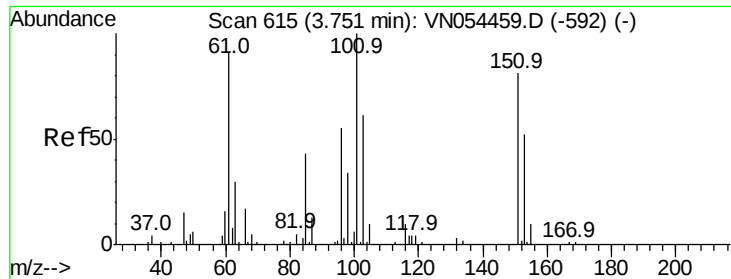


#8

Diethyl Ether
Concen: 20.661 ug/l
RT: 3.41 min Scan# 509
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 74 Resp: 56117
Ion Ratio Lower Upper
74 100
45 112.1 43.1 129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.950 ug/l

RT: 3.75 min Scan# 615

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

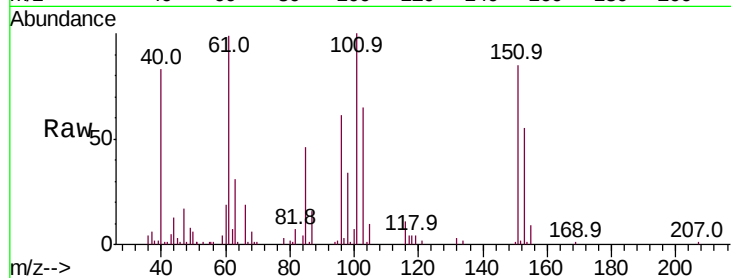
Tot Ion:101 Resp: 78653

Ion Ratio Lower Upper

101 100

85 46.0 32.4 48.6

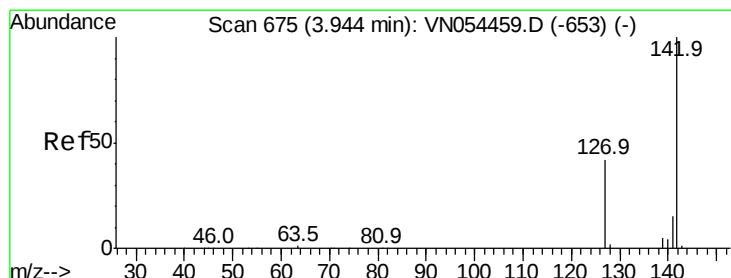
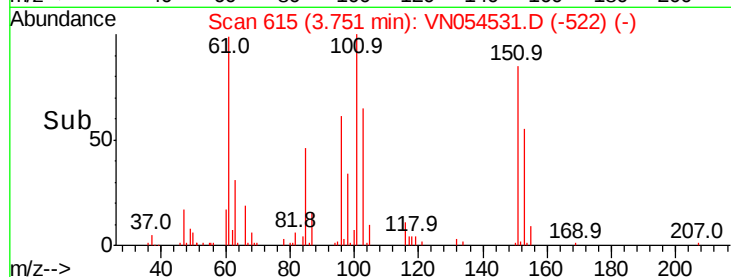
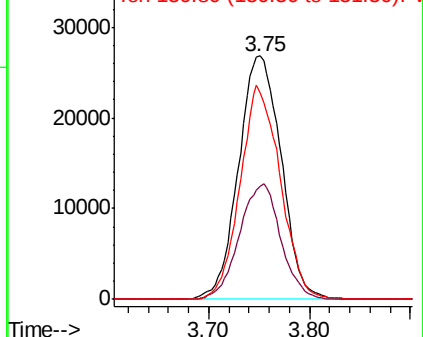
151 82.9 68.2 102.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.869 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

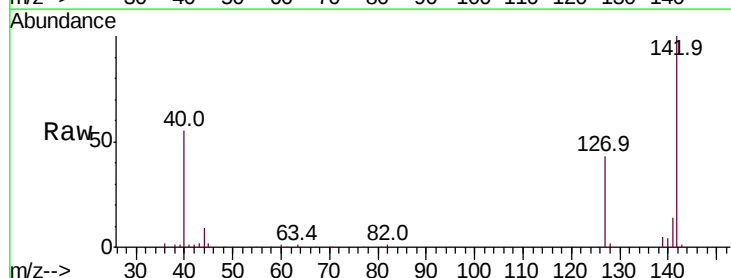
Tgt Ion:142 Resp: 109097

Ion Ratio Lower Upper

142 100

127 43.2 30.3 45.5

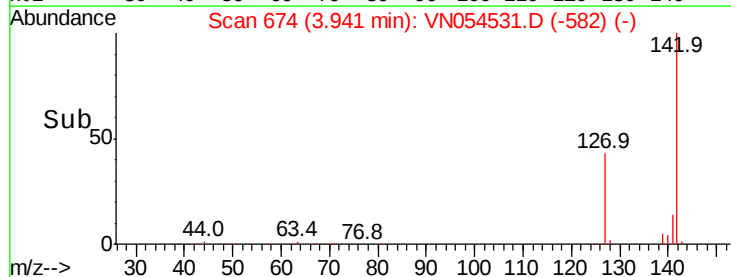
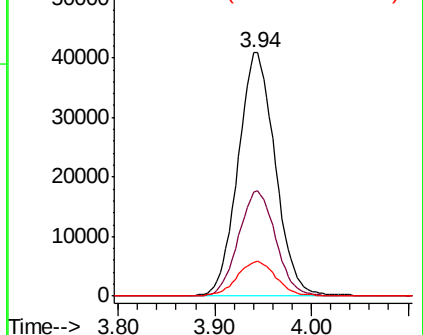
141 14.9 11.2 16.8

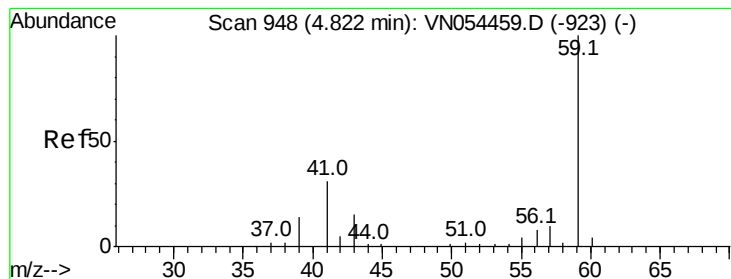


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



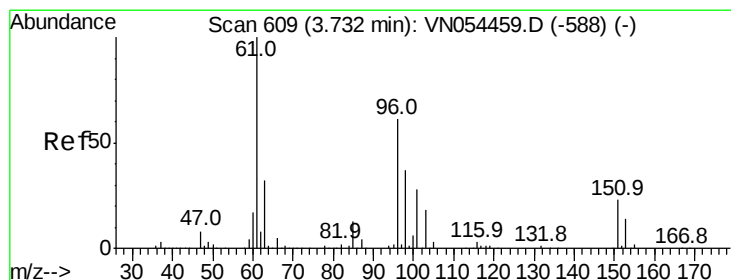
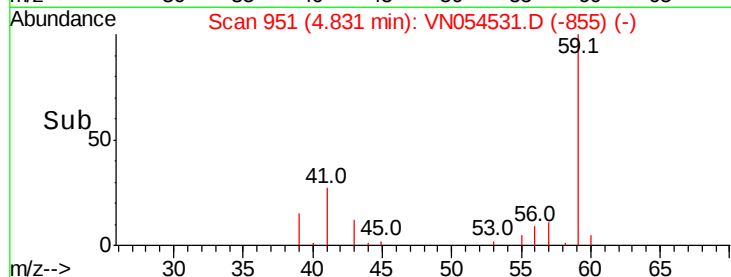
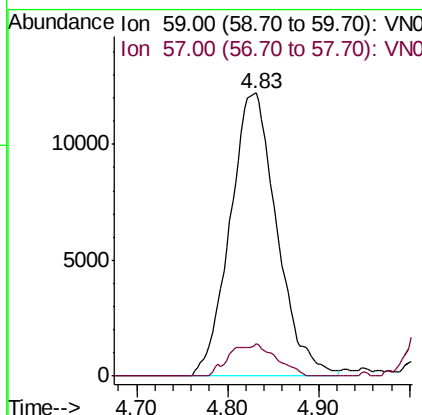
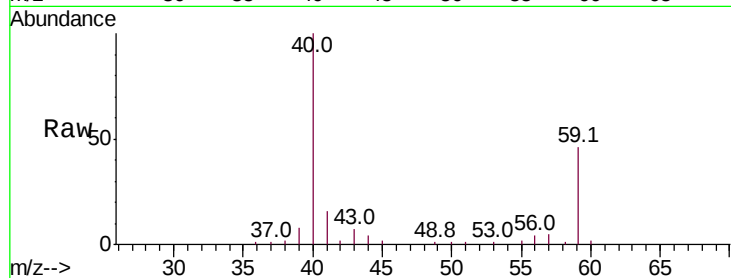


#11

Tert butyl alcohol
 Concen: 130.136 ug/l
 RT: 4.83 min Scan# 951
 Delta R.T. 0.01 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

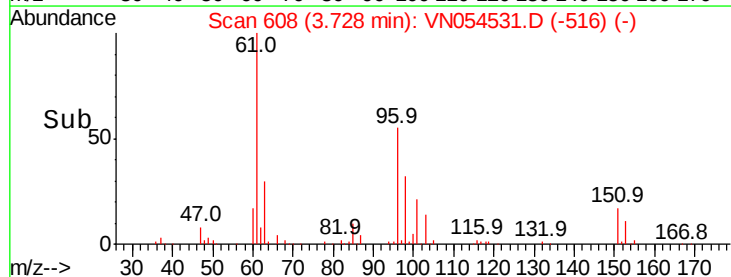
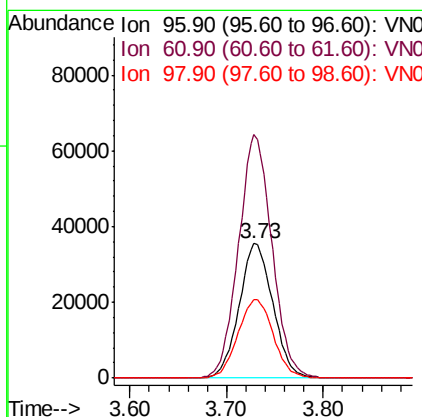
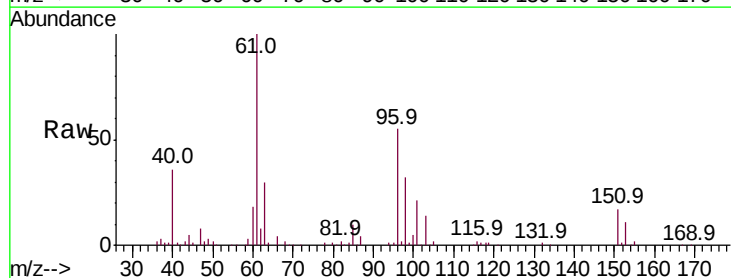
Tot Ion: 59 Resp: 43640
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.6#

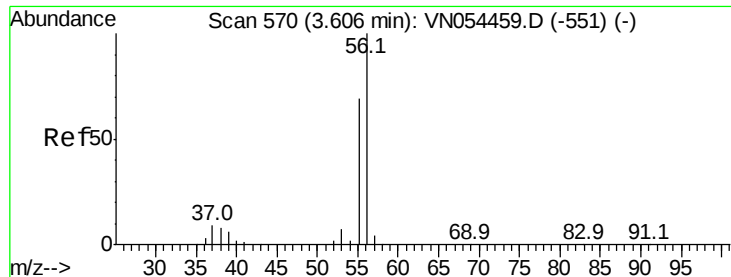


#12

1,1-Dichloroethene
 Concen: 20.071 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. -0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion: 96 Resp: 86210
 Ion Ratio Lower Upper
 96 100
 61 180.8 116.5 174.7#
 98 58.4 51.0 76.4





#13

Acrolein

Concen: 98.532 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

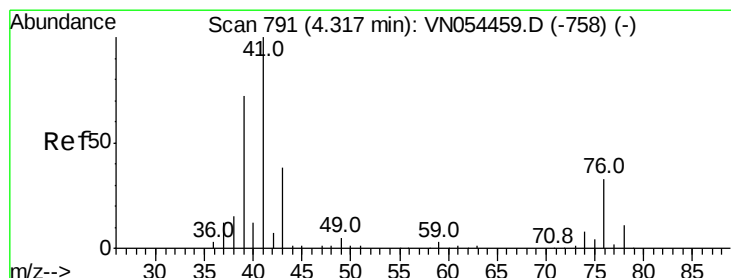
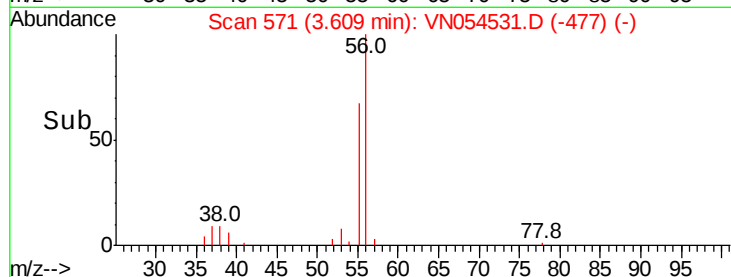
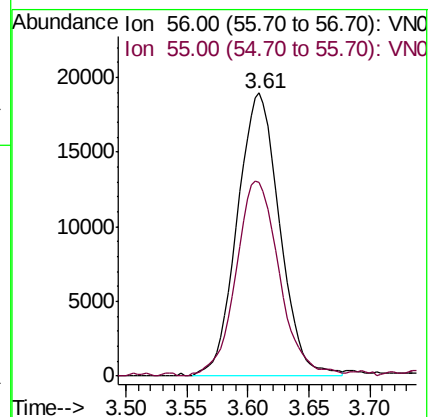
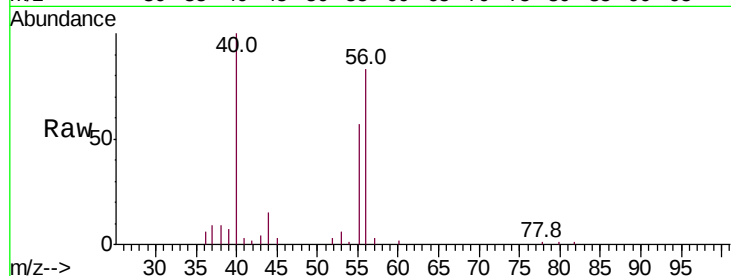
VN0321WBSD02

Tot Ion: 56 Resp: 45598

Ion Ratio Lower Upper

56 100

55 70.7 56.7 85.1



#14

Allyl chloride

Concen: 21.612 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

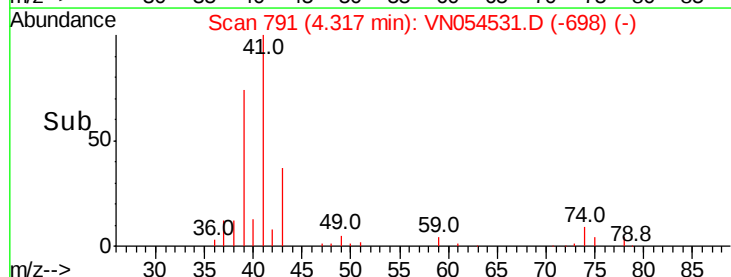
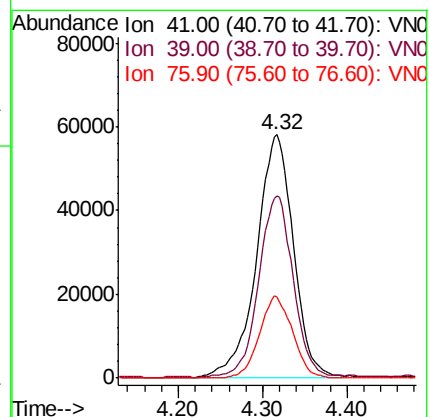
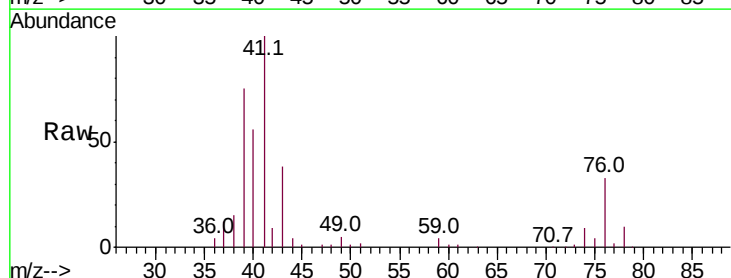
Tgt Ion: 41 Resp: 174797

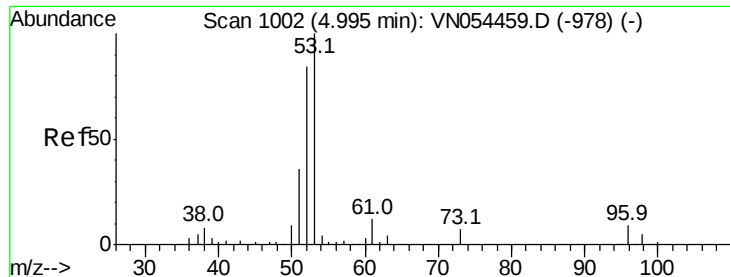
Ion Ratio Lower Upper

41 100

39 71.6 58.2 87.4

76 30.3 31.7 47.5#





#15

Acrylonitrile

Concen: 128.509 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

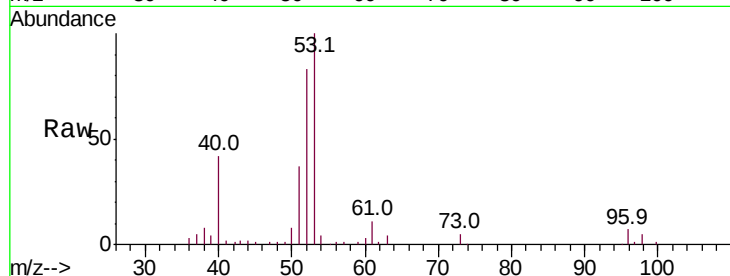
Tot Ion: 53 Resp: 214605

Ion Ratio Lower Upper

53 100

52 84.0 66.4 99.6

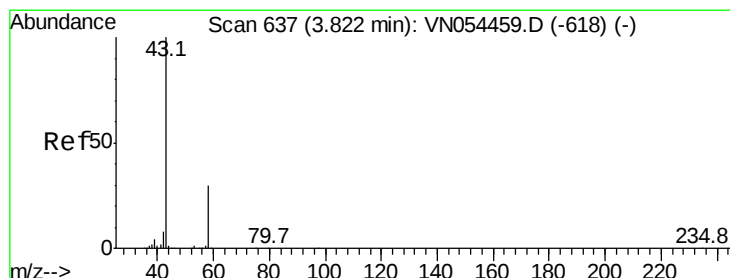
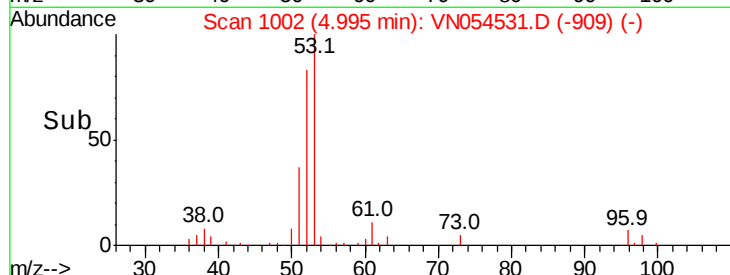
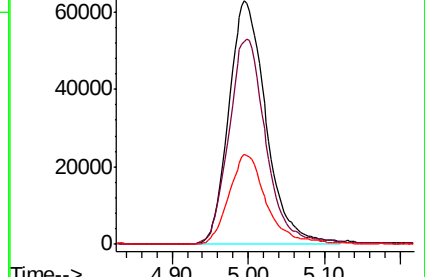
51 37.4 29.6 44.4



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 96.136 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054531.D

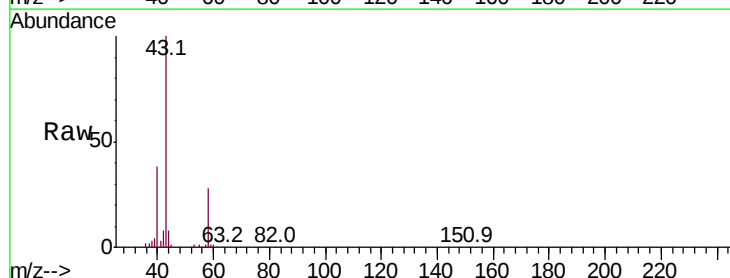
Acq: 22 Mar 2019 1:20

Tgt Ion: 43 Resp: 160094

Ion Ratio Lower Upper

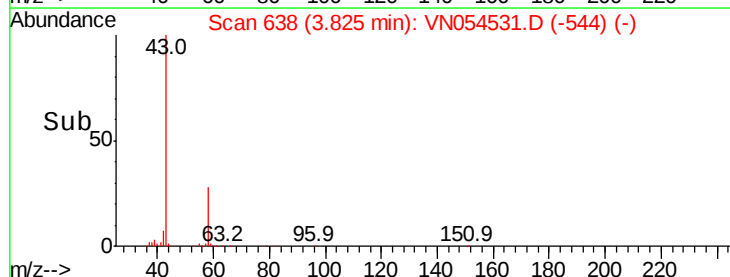
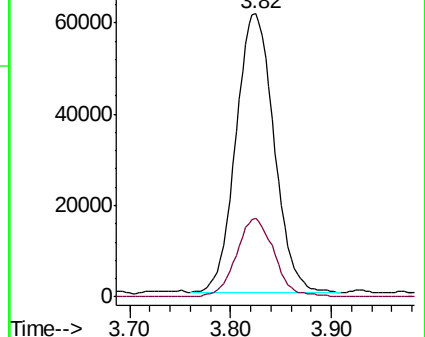
43 100

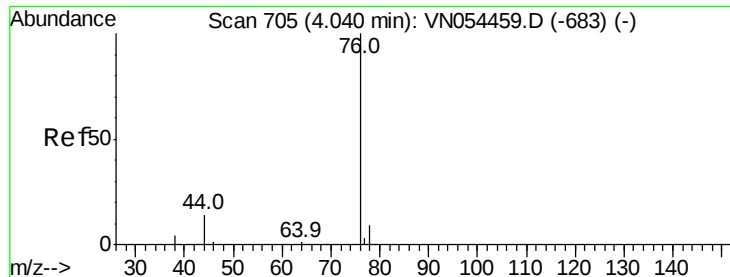
58 28.1 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

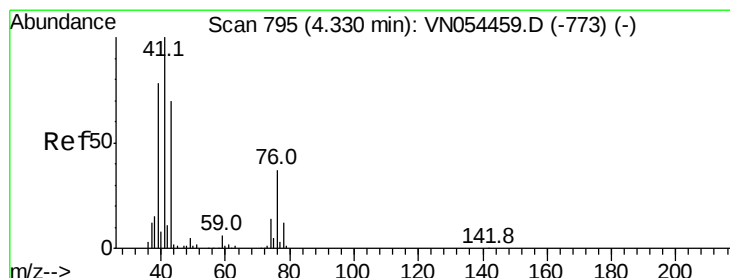
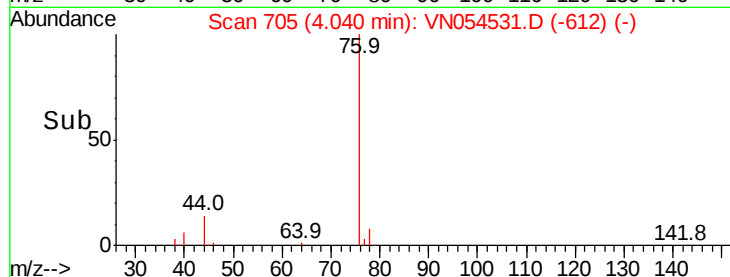
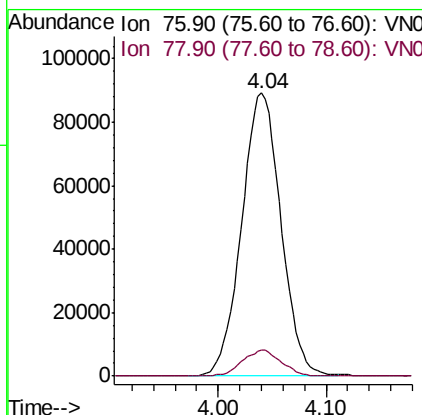
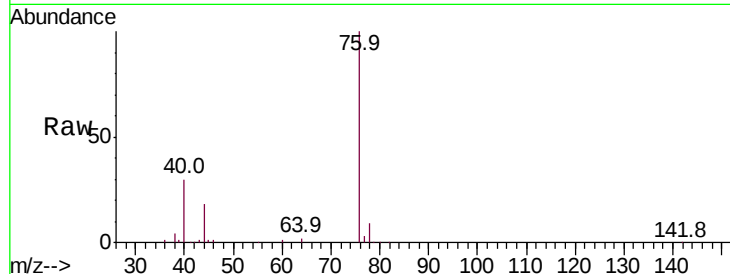




#17
Carbon Disulfide
Concen: 19.639 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

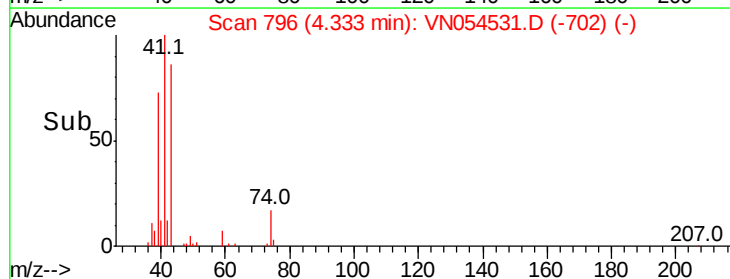
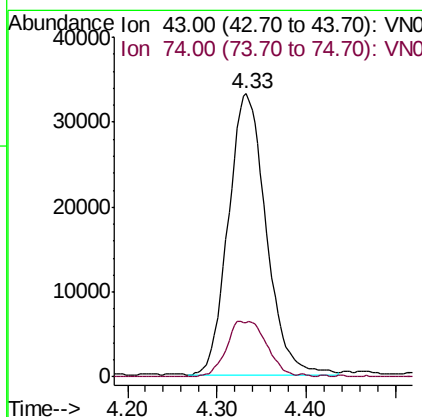
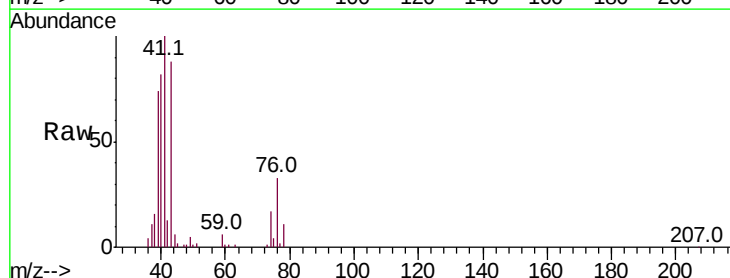
Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

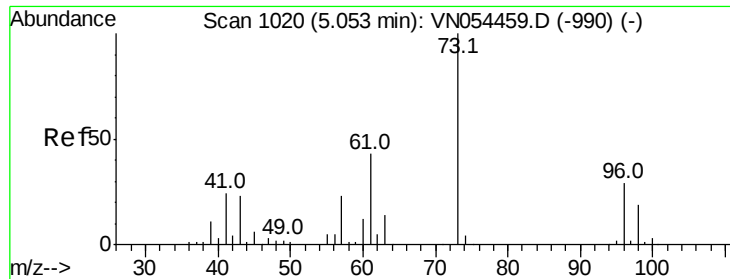
Tot Ion: 76 Resp: 226014
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3



#18
Methyl Acetate
Concen: 26.446 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 43 Resp: 98161
Ion Ratio Lower Upper
43 100
74 10.5 20.8 31.2#

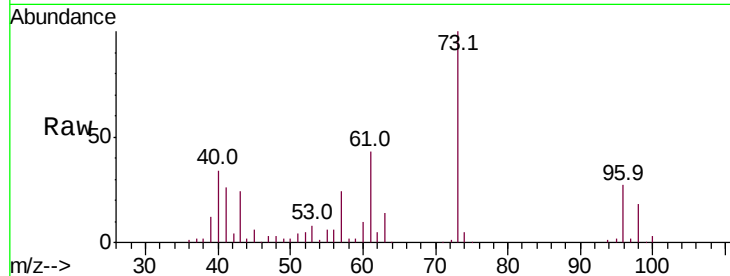




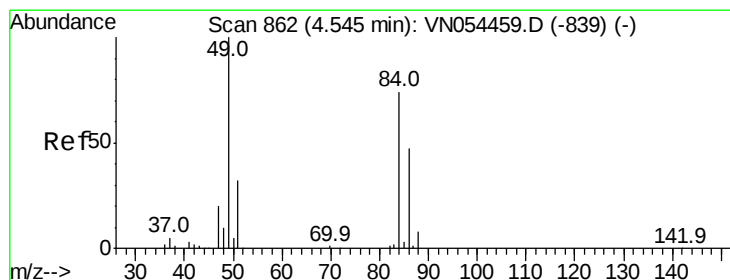
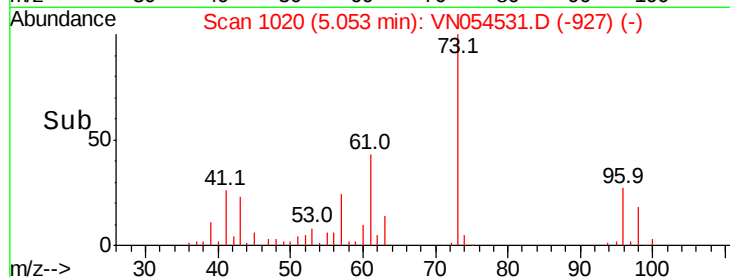
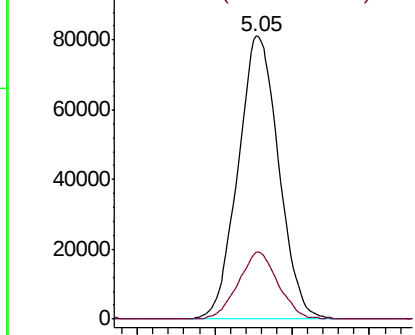
#19
Methvl tert-butvl Ether
Concen: 23.638 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion: 73 Resp: 296305
Ion Ratio Lower Upper
73 100
57 23.5 16.8 25.2

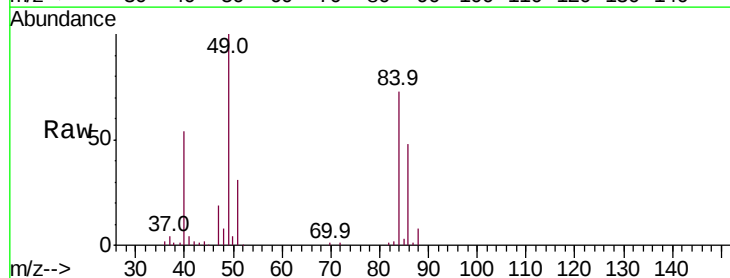


Abundance Ion 73.00 (72.70 to 73.70): VNC
Ion 57.00 (56.70 to 57.70): VNC

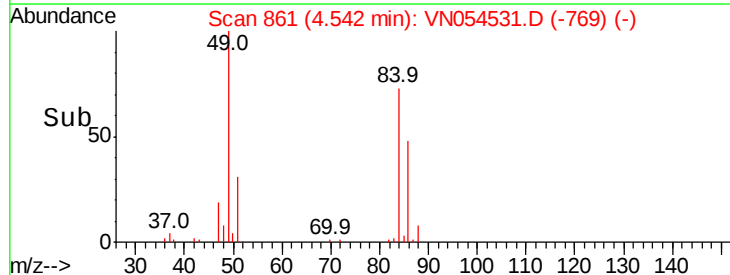
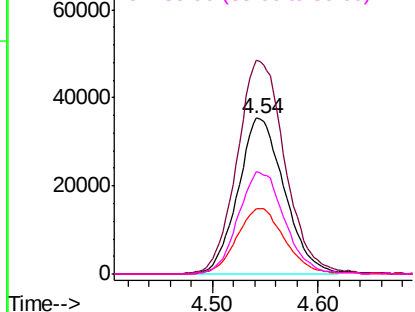


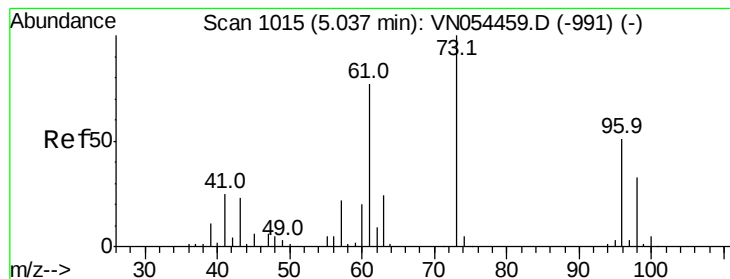
#20
Methylene Chloride
Concen: 22.088 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 84 Resp: 108428
Ion Ratio Lower Upper
84 100
49 136.5 89.7 134.5#
51 41.9 28.2 42.4
86 65.4 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC





#21

trans-1,2-Dichloroethene

Concen: 23.336 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

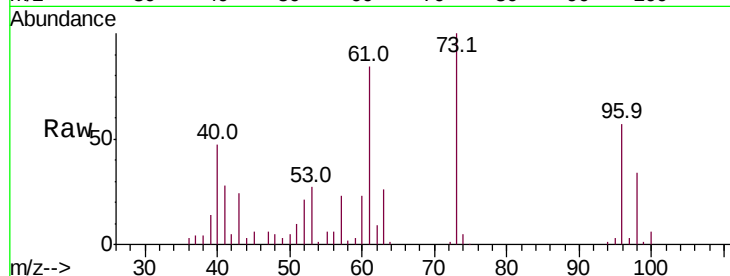
Tot Ion: 96 Resp: 102349

Ion Ratio Lower Upper

96 100

61 147.0 102.8 154.2

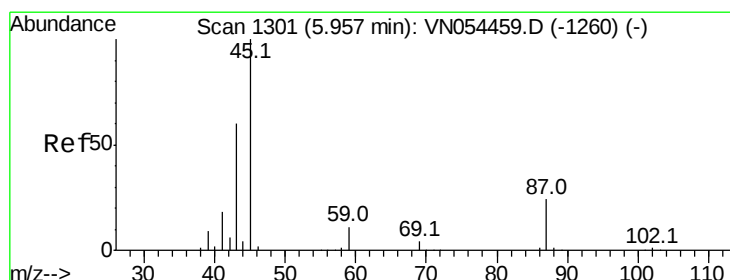
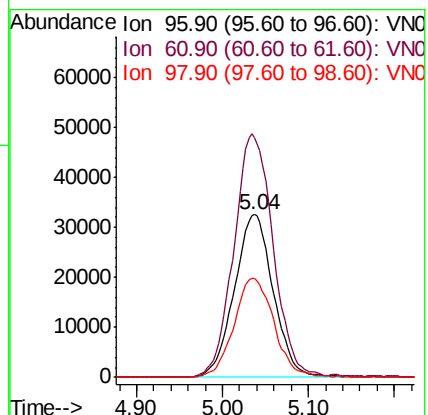
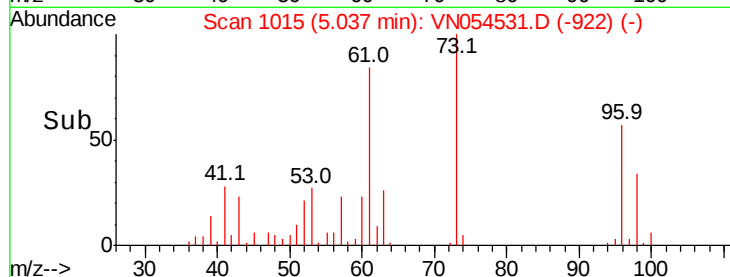
98 60.4 50.0 75.0



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 23.609 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion: 45 Resp: 376654

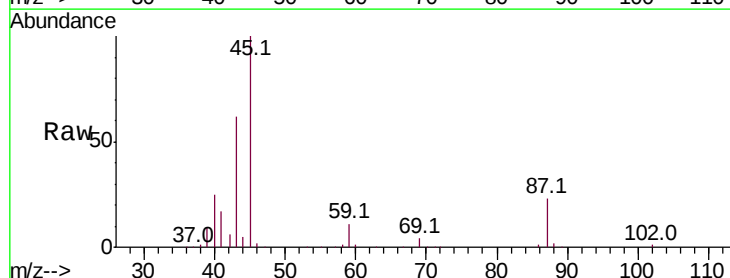
Ion Ratio Lower Upper

45 100

43 61.8 48.2 72.2

87 23.2 24.9 37.3#

59 10.3 9.5 14.3

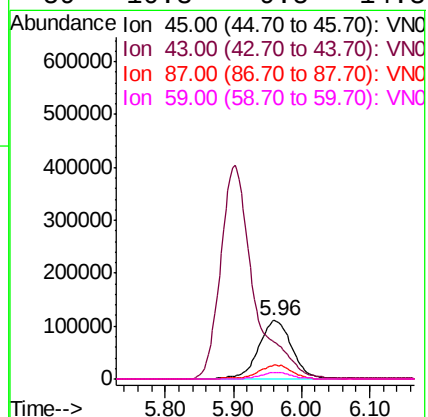
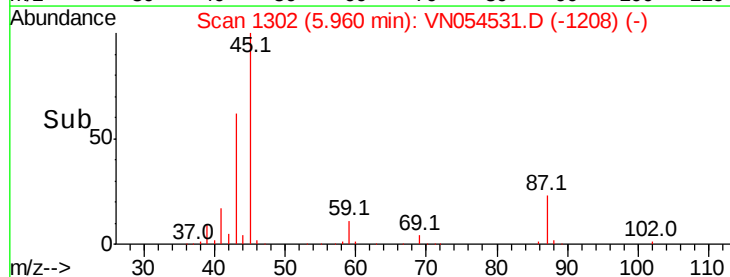


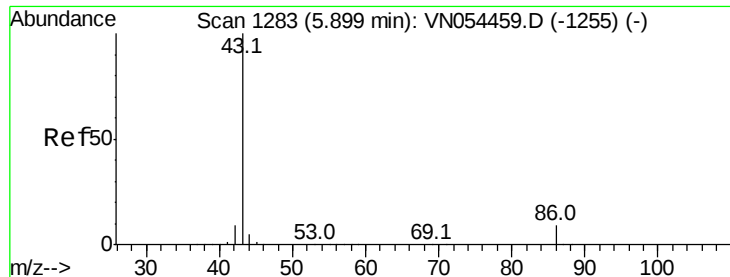
Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 121.476 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

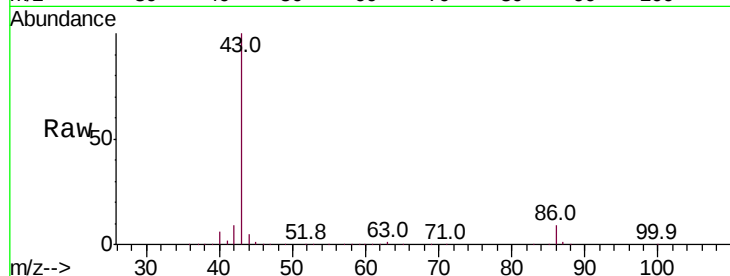
VN0321WBSD02

Tot Ion: 43 Resp: 1368732

Ion Ratio Lower Upper

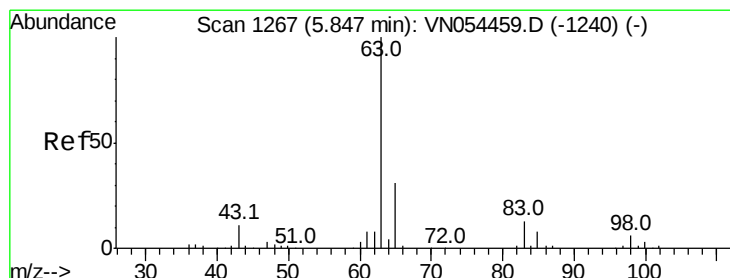
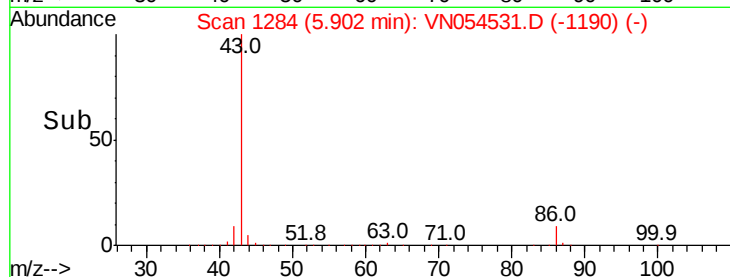
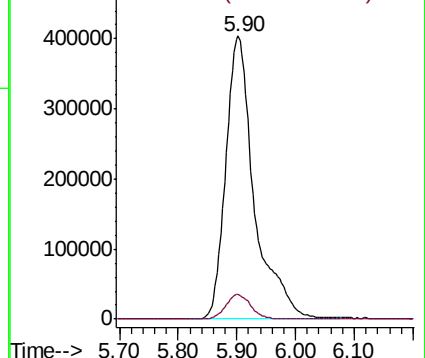
43 100

86 8.8 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 23.822 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

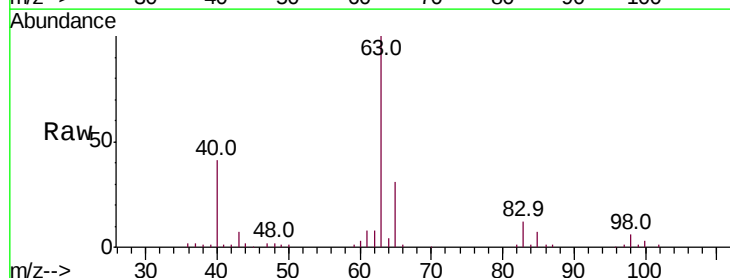
Tgt Ion: 63 Resp: 204633

Ion Ratio Lower Upper

63 100

98 5.6 3.5 10.5

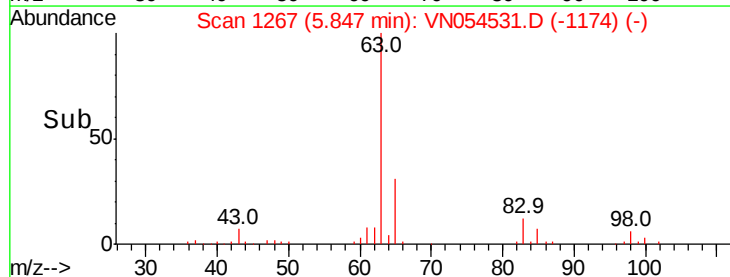
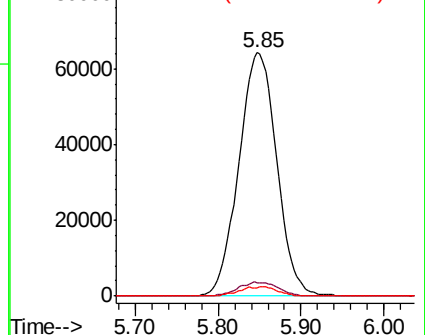
100 3.4 2.0 6.0

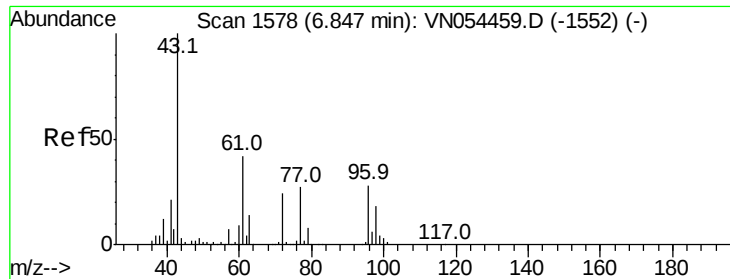


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 121.132 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

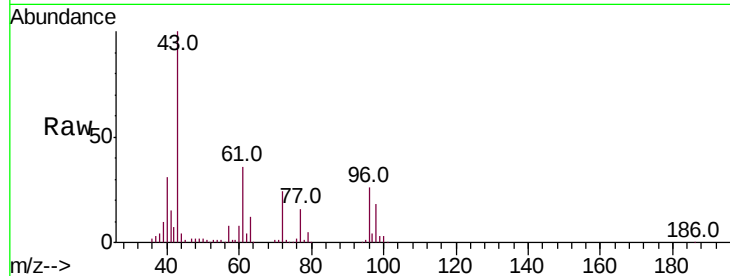
VN0321WBSD02

Tot Ion: 43 Resp: 258403

Ion Ratio Lower Upper

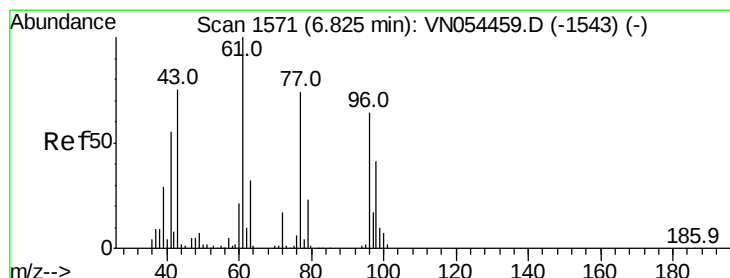
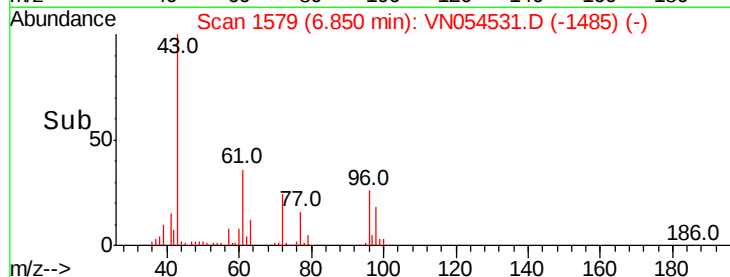
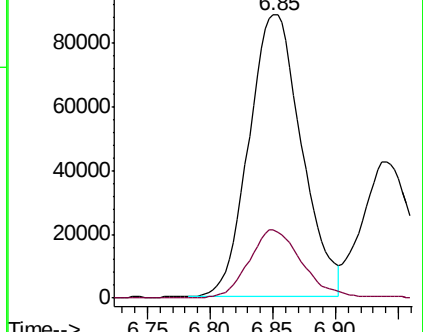
43 100

72 24.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 16.088 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN054531.D

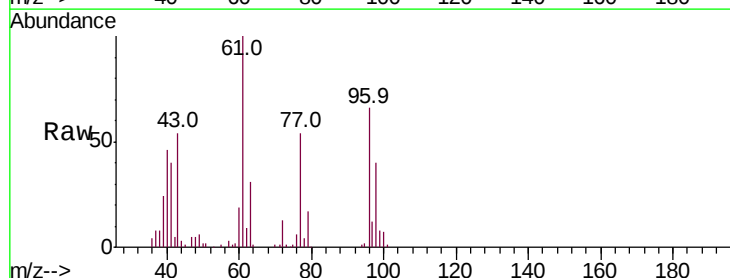
Acq: 22 Mar 2019 1:20

Tgt Ion: 77 Resp: 98510

Ion Ratio Lower Upper

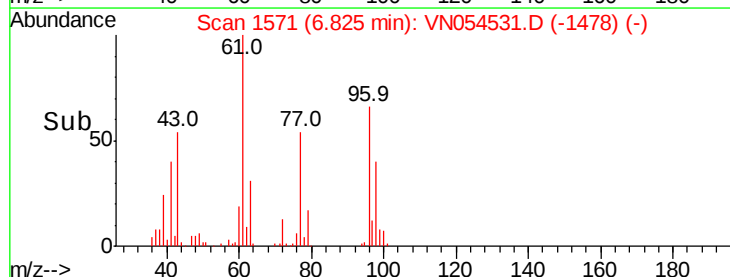
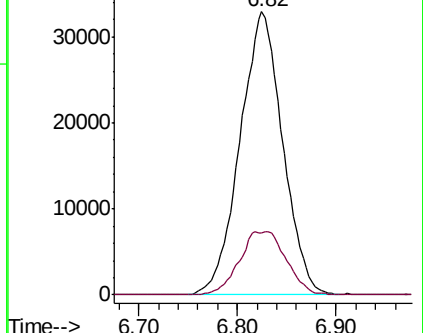
77 100

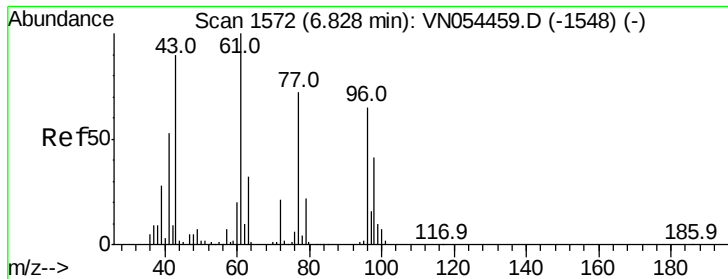
97 12.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 22.778 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

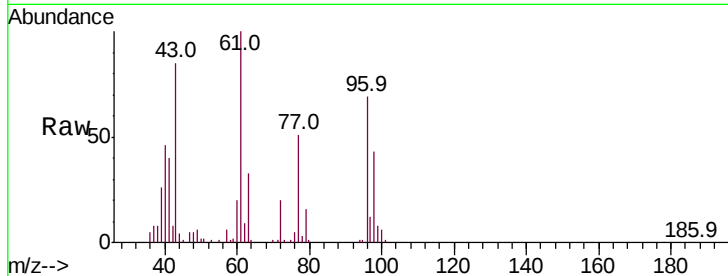
Tot Ion: 96 Resp: 119160

Ion Ratio Lower Upper

96 100

61 147.6 0.0 273.0

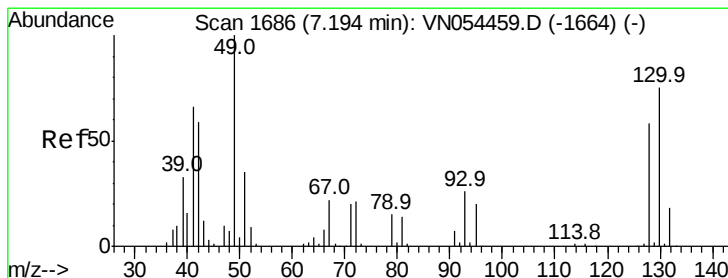
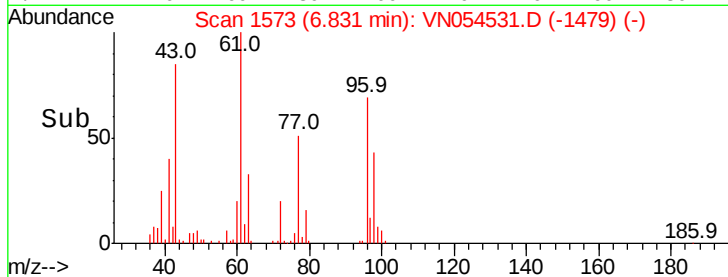
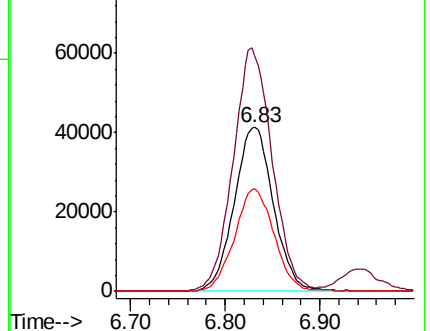
98 62.7 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 22.936 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

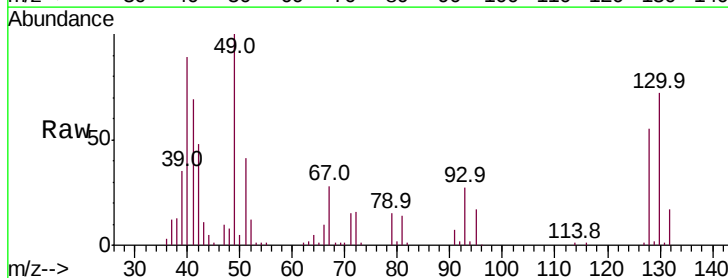
Tgt Ion: 49 Resp: 96976

Ion Ratio Lower Upper

49 100

129 1.1 0.0 4.6

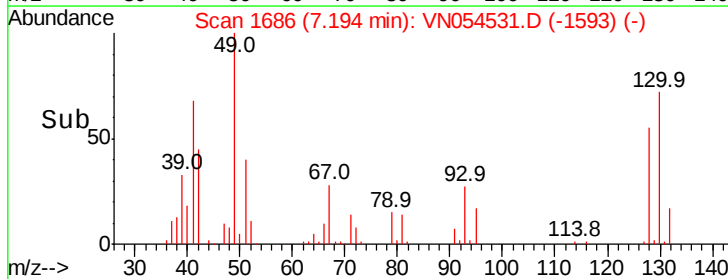
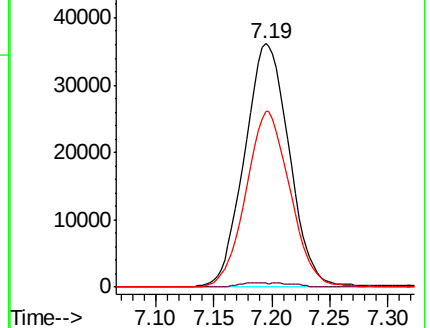
130 71.2 76.7 115.1#

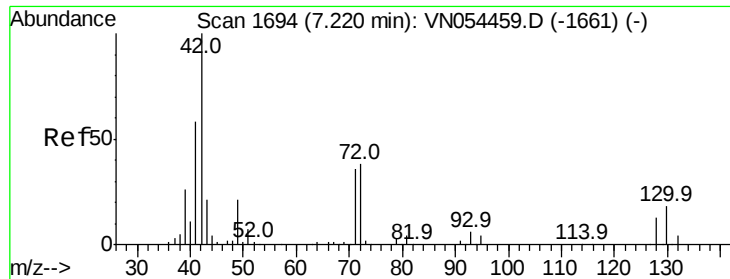


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 134.964 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

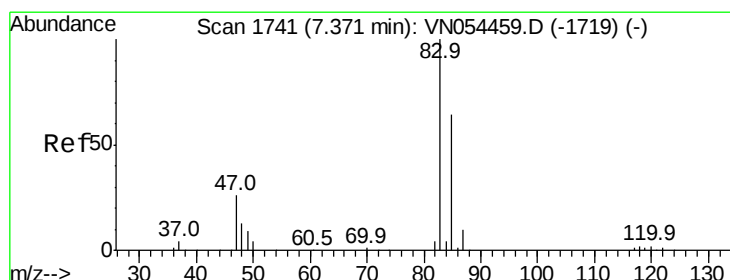
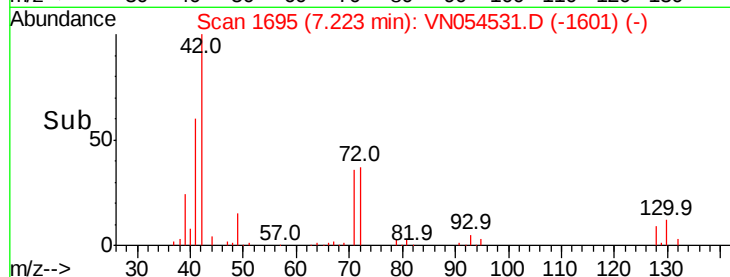
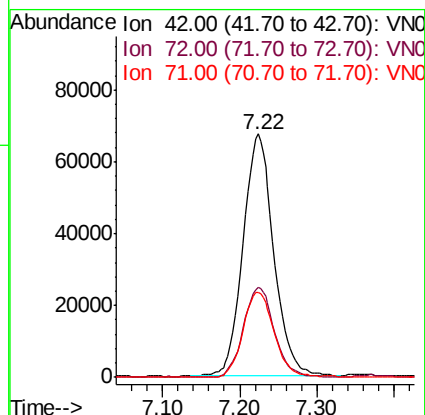
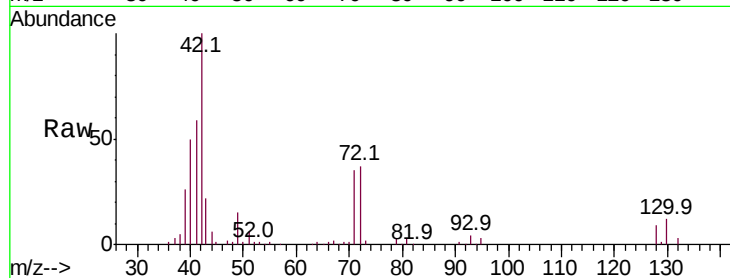
Tot Ion: 42 Resp: 186834

Ion Ratio Lower Upper

42 100

72 37.4 37.8 56.6#

71 35.6 36.2 54.2#



#30

Chloroform

Concen: 23.151 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VN054531.D

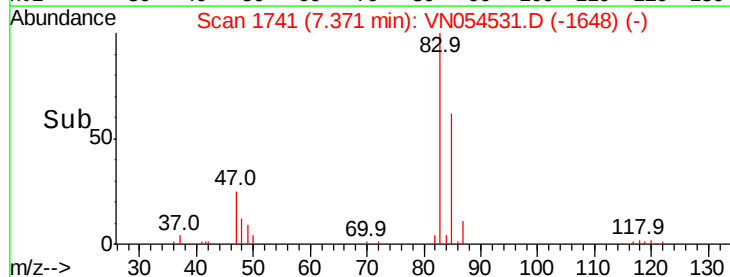
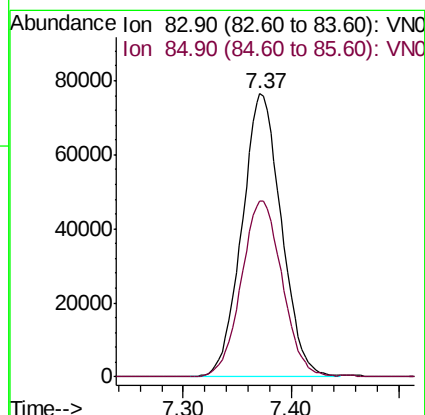
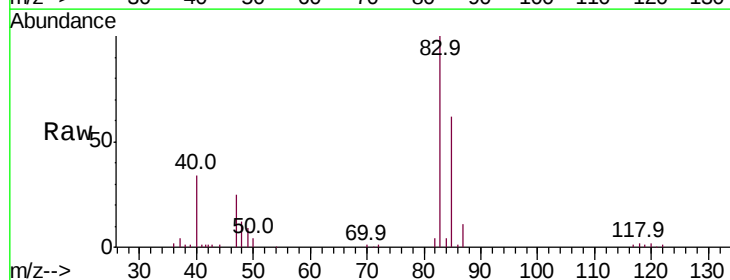
Acq: 22 Mar 2019 1:20

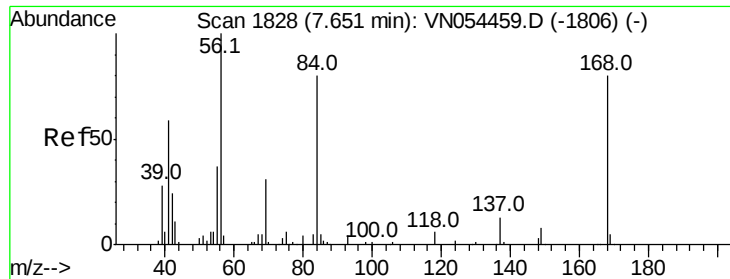
Tgt Ion: 83 Resp: 194072

Ion Ratio Lower Upper

83 100

85 62.0 52.2 78.4





#31

Cyclohexane

Concen: 22.257 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

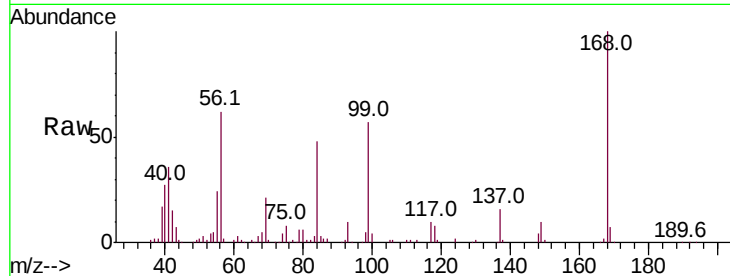
Tot Ion: 56 Resp: 191682

Ion Ratio Lower Upper

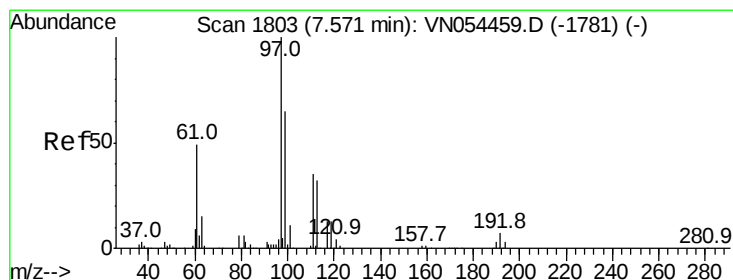
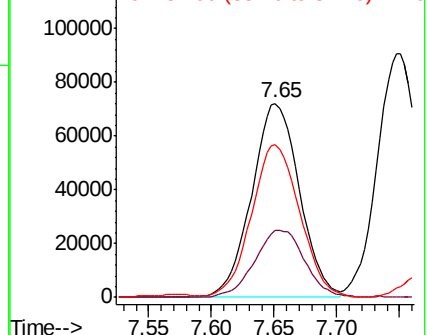
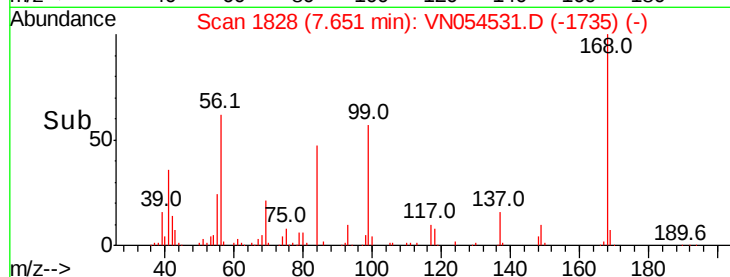
56 100

69 34.3 27.8 41.6

84 77.5 74.6 111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#32

1,1,1-Trichloroethane

Concen: 23.072 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

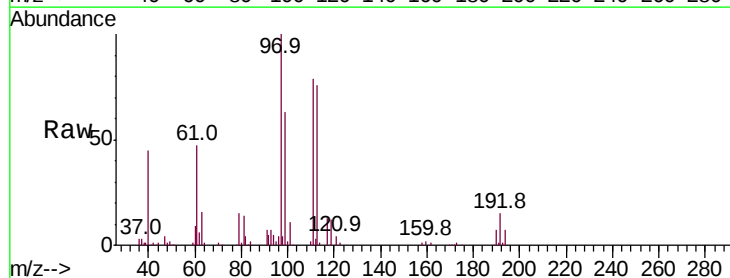
Tgt Ion: 97 Resp: 159566

Ion Ratio Lower Upper

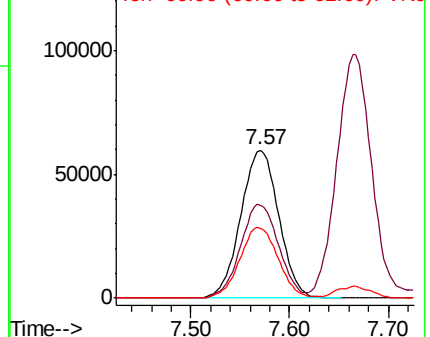
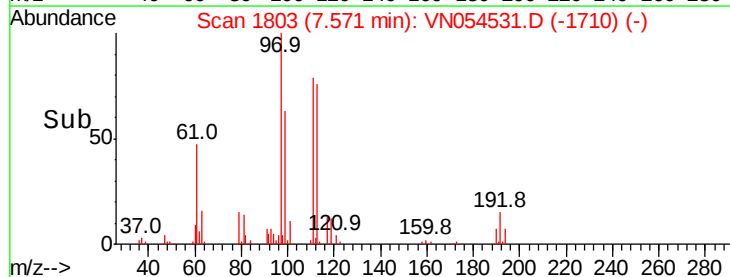
97 100

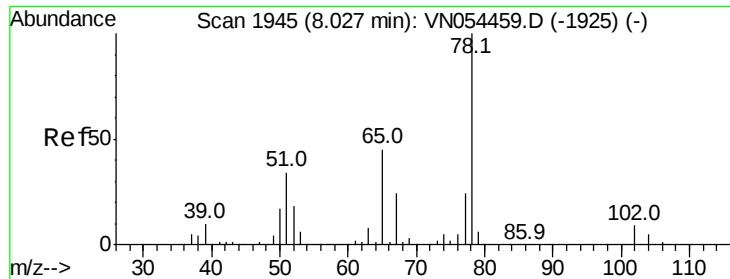
99 63.8 51.5 77.3

61 48.1 33.6 50.4



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0

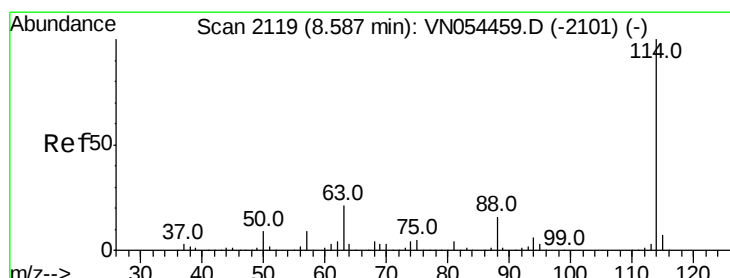
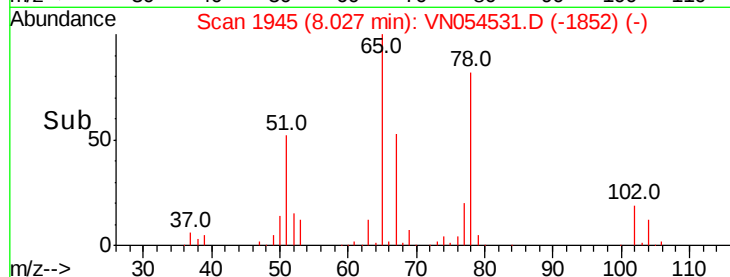
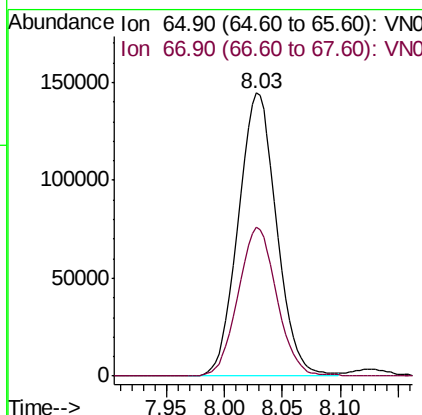
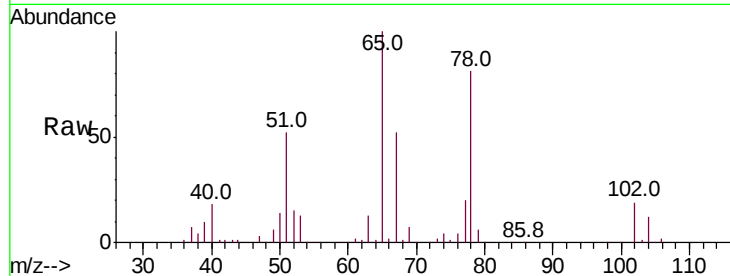




#33
 1,2-Dichloroethane-d4
 Concen: 60.024 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

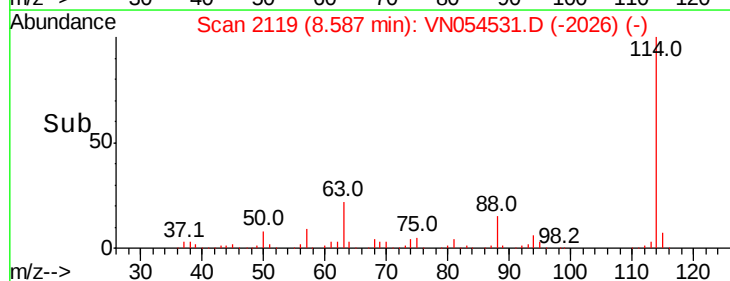
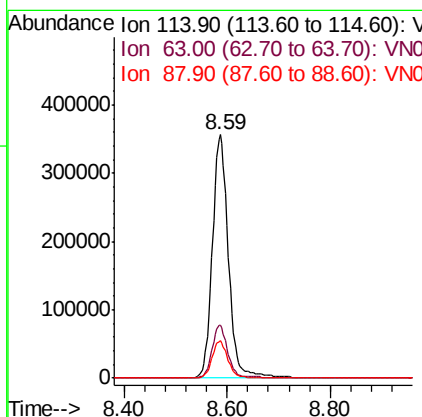
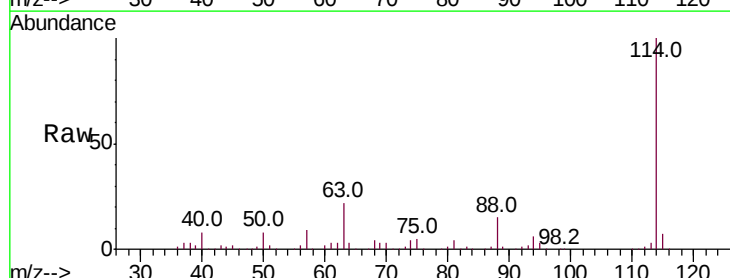
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

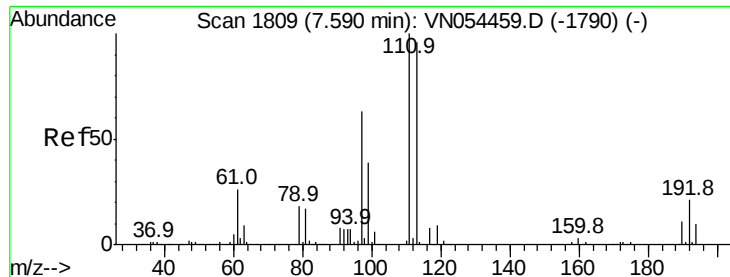
Tot Ion: 65 Resp: 332472
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion: 114 Resp: 773007
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 35.2
 88 15.2 0.0 30.2

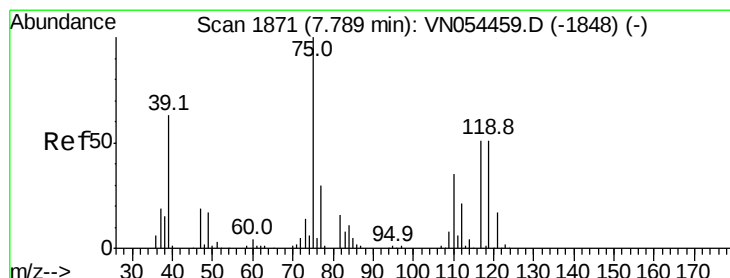
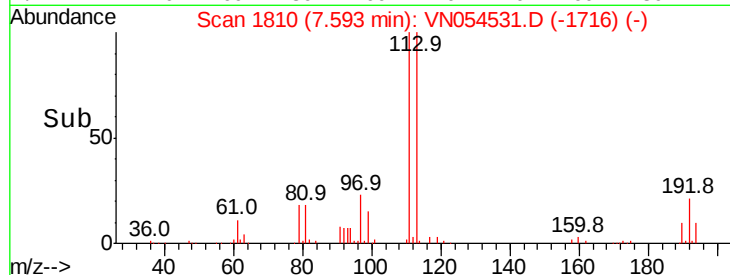
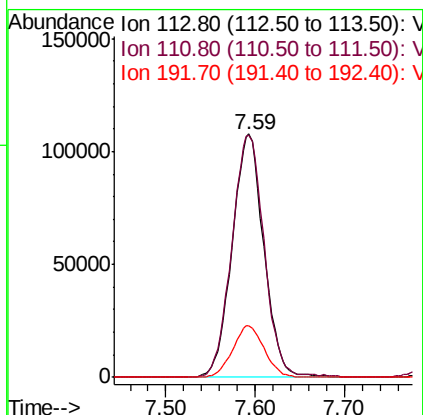
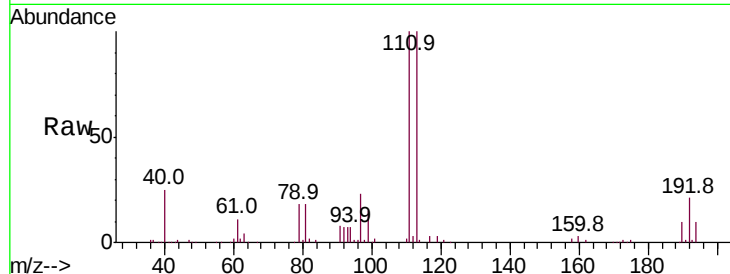




#35
 Dibromofluoromethane
 Concen: 53.102 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

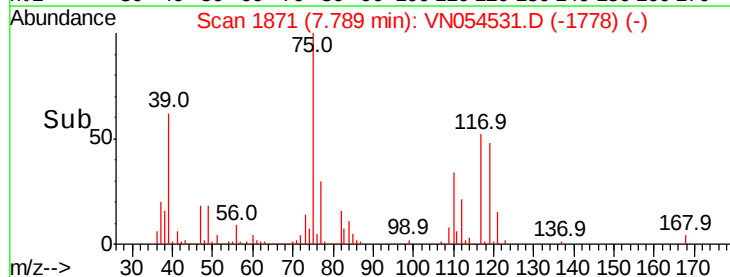
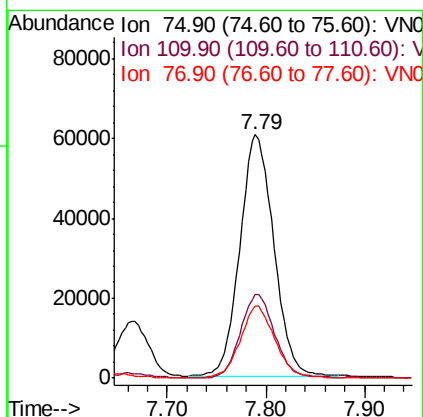
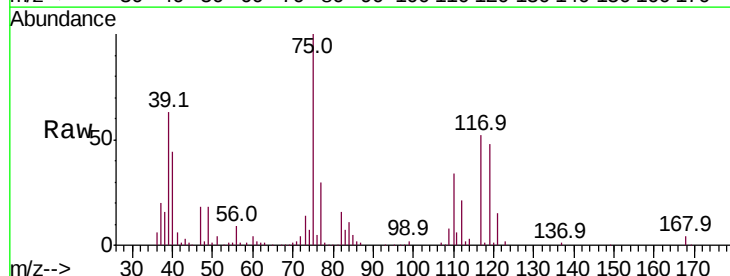
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

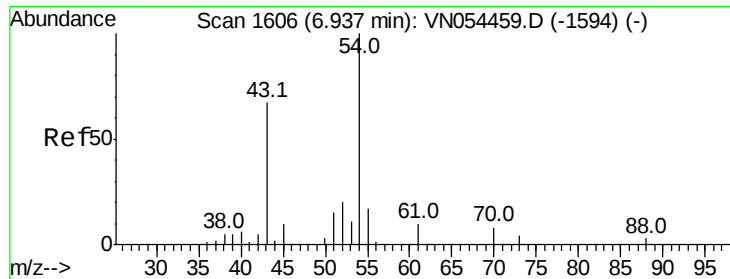
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.2	123.4
192	21.2	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 20.049 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.7	19.1	57.5
77	30.6	25.0	37.4





#37

Ethyl Acetate

Concen: 23.630 ug/l

RT: 6.94 min Scan# 1607

Delta R.T. 0.00 min

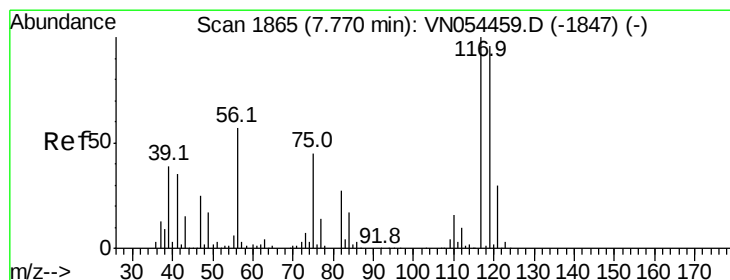
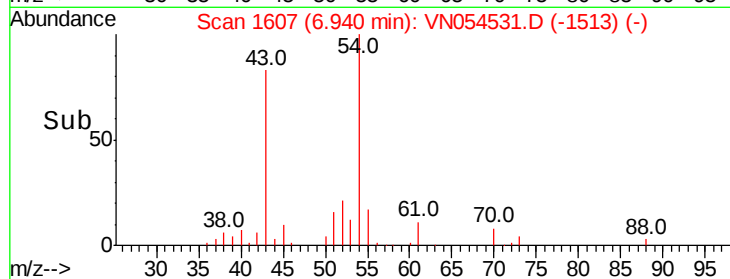
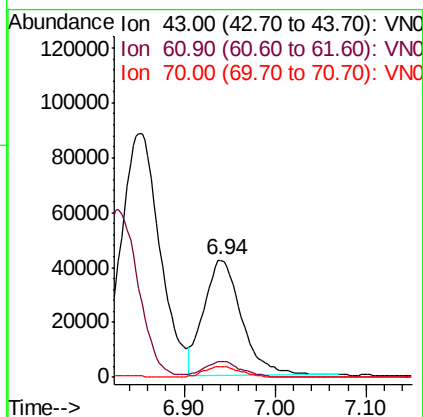
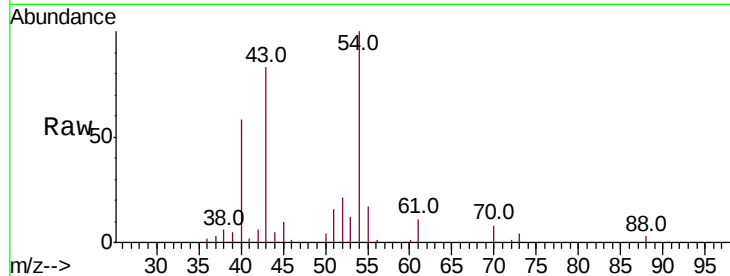
Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampled :
VN0321WBSD02

Tot Ion: 43 Resp: 121474

Ion	Ratio	Lower	Upper
43	100		
61	12.4	11.8	17.6
70	9.3	8.4	12.6



#38

Carbon Tetrachloride

Concen: 19.887 ug/l

RT: 7.77 min Scan# 1865

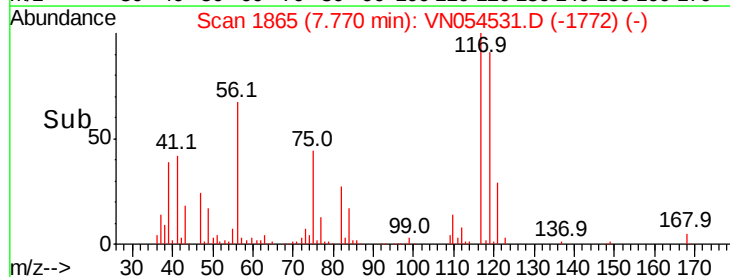
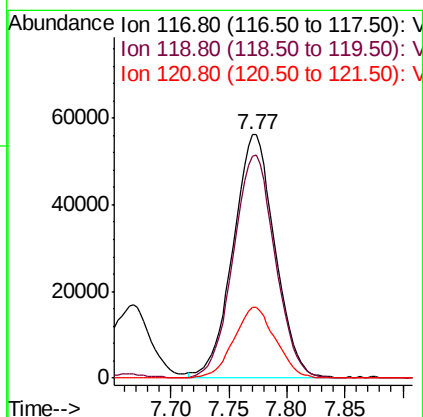
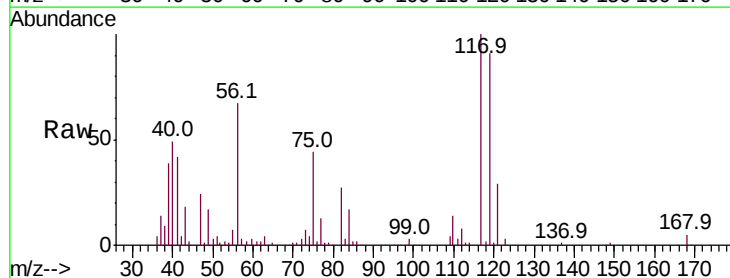
Delta R.T. 0.00 min

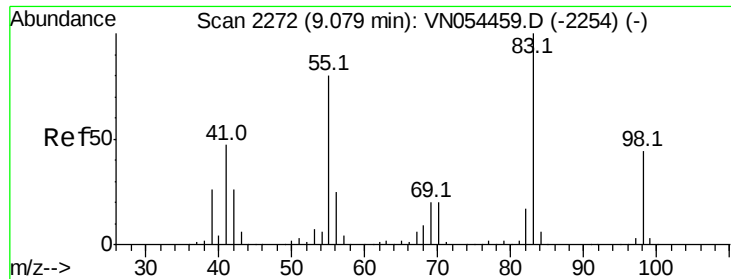
Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion: 117 Resp: 139681

Ion	Ratio	Lower	Upper
117	100		
119	91.6	76.3	114.5
121	29.0	24.6	36.8

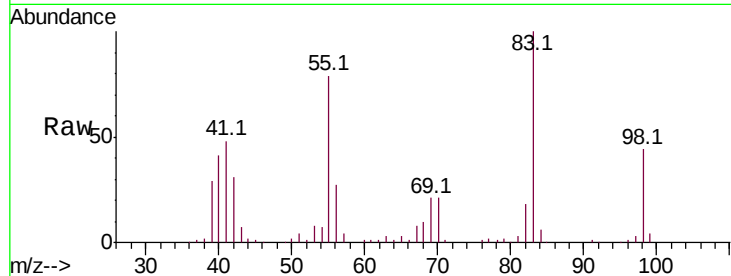




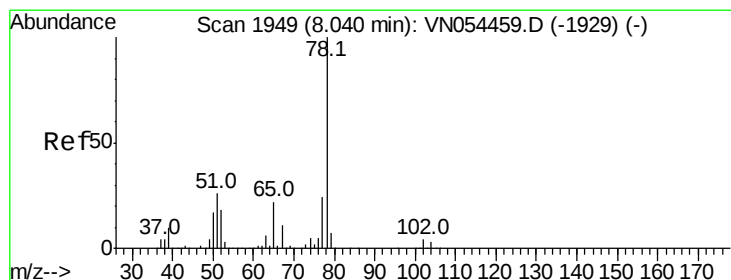
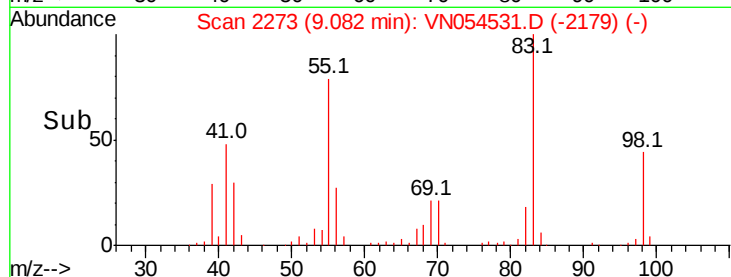
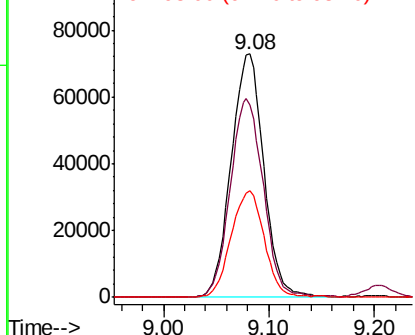
#39
Methvlcvclohexane
Concen: 18.892 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion: 83 Resp: 156194
Ion Ratio Lower Upper
83 100
55 79.3 56.6 84.8
98 43.7 38.4 57.6

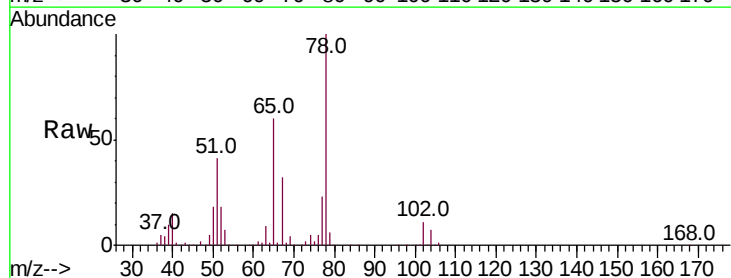


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

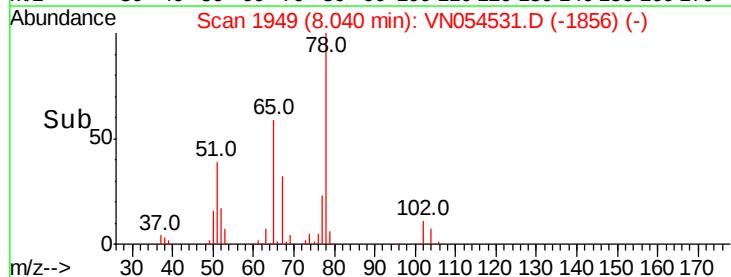
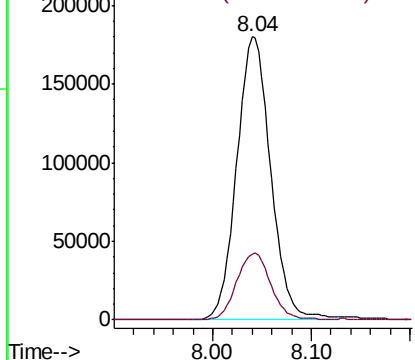


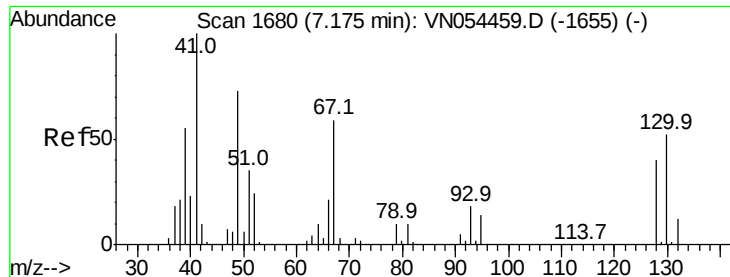
#40
Benzene
Concen: 20.815 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 78 Resp: 430205
Ion Ratio Lower Upper
78 100
77 23.4 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0

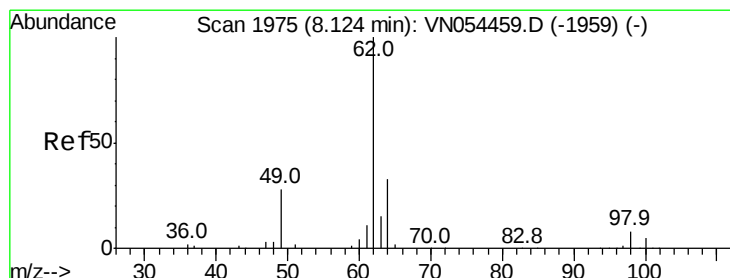
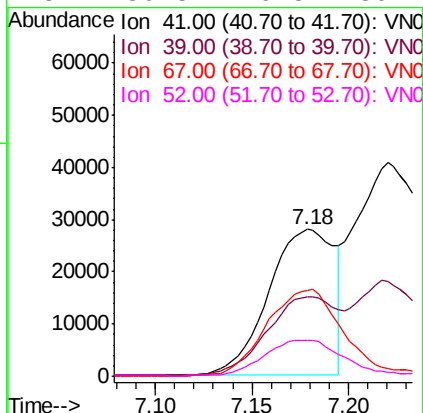
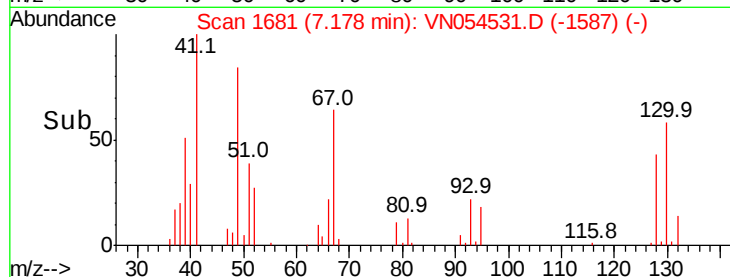
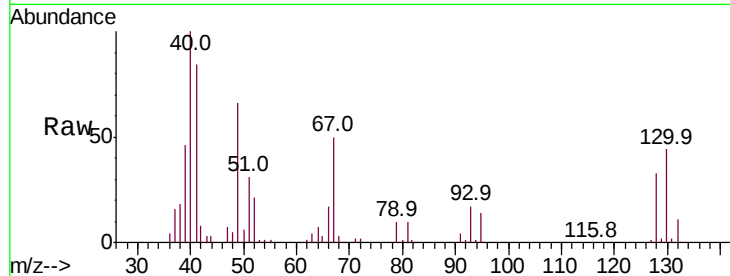




#41
Methacrylonitrile
Concen: 21.150 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

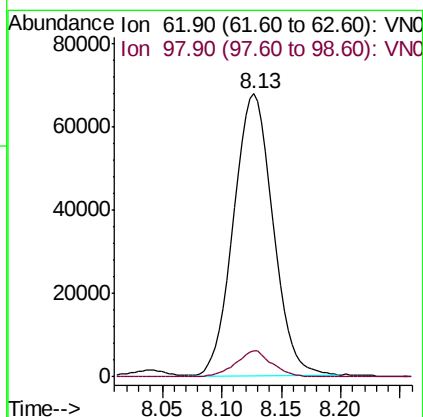
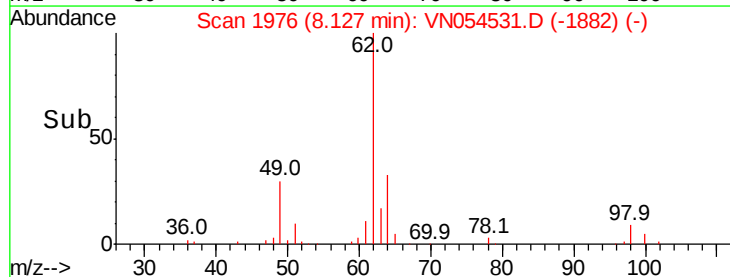
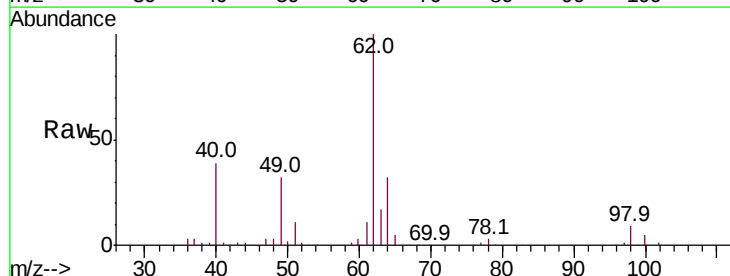
Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

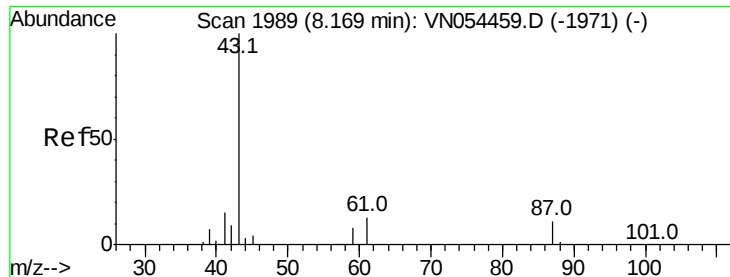
Tot Ion: 41 Resp: 66306
Ion Ratio Lower Upper
41 100
39 57.4 46.8 70.2
67 70.2 67.0 100.4
52 30.5 26.5 39.7



#42
1,2-Dichloroethane
Concen: 20.705 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 62 Resp: 155846
Ion Ratio Lower Upper
62 100
98 8.5 0.0 18.4





#43

Isopropyl Acetate

Concen: 22.669 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

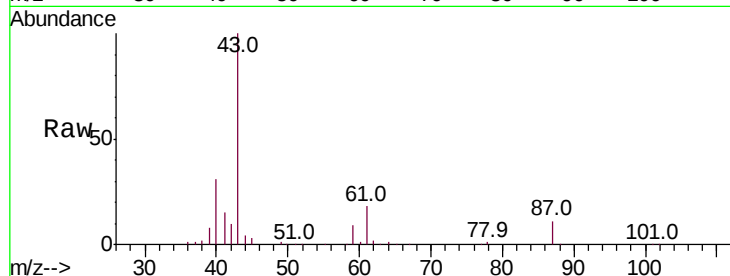
Tot Ion: 43 Resp: 196801

Ion Ratio Lower Upper

43 100

61 18.9 15.8 23.8

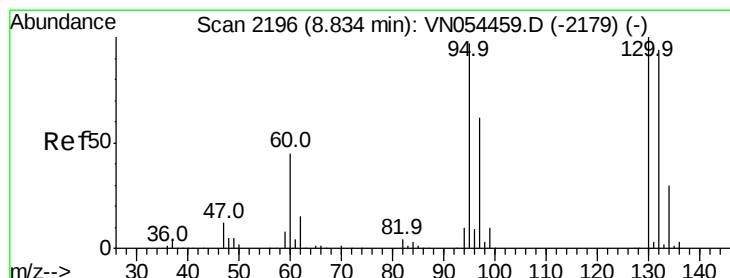
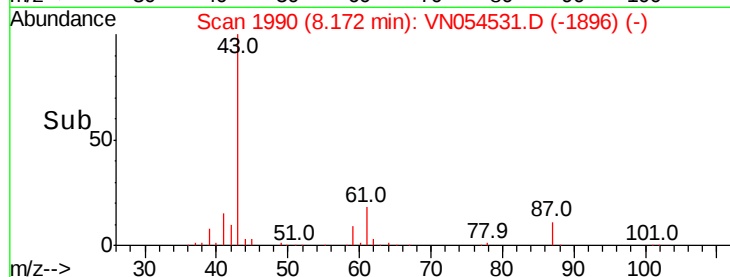
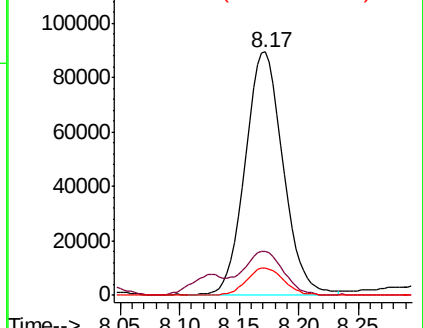
87 11.2 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#44

Trichloroethene

Concen: 19.870 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN054531.D

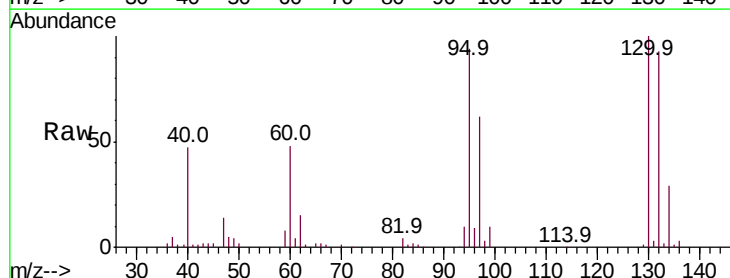
Acq: 22 Mar 2019 1:20

Tgt Ion:130 Resp: 114173

Ion Ratio Lower Upper

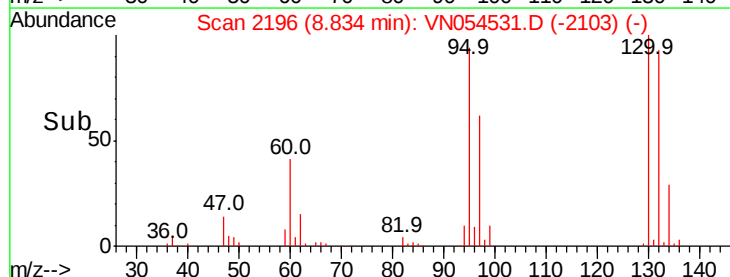
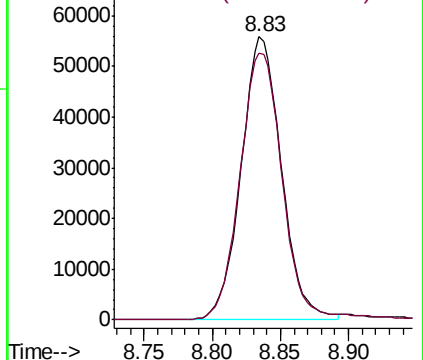
130 100

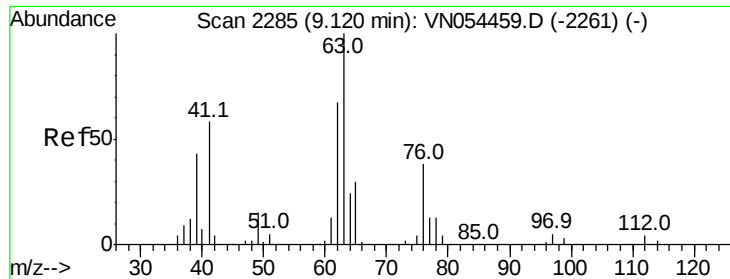
95 94.4 0.0 185.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#45

1,2-Dichloropropane

Concen: 22.055 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

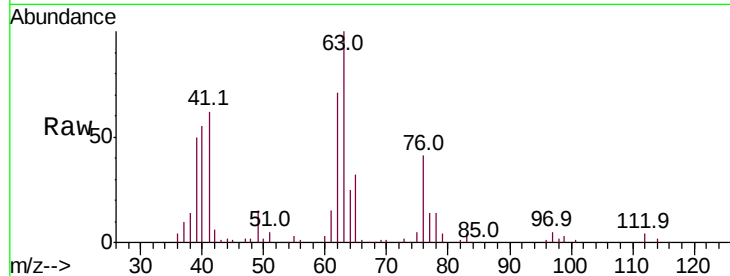
VN0321WBSD02

Tot Ion: 63 Resp: 122401

Ion Ratio Lower Upper

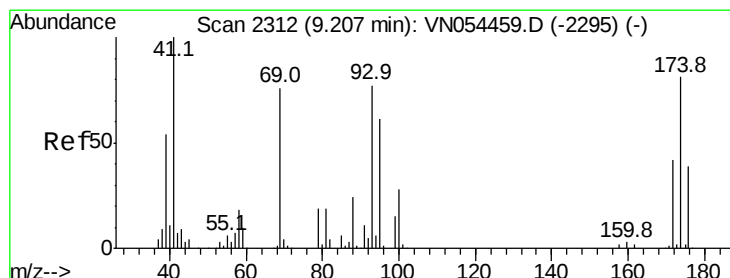
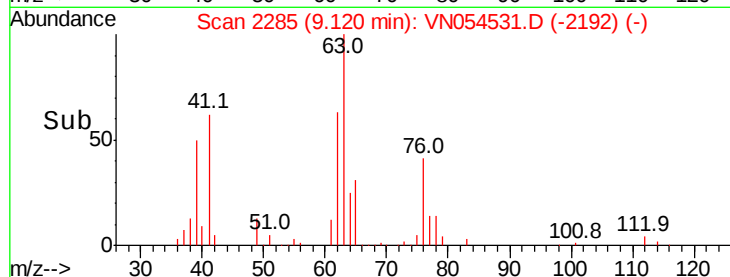
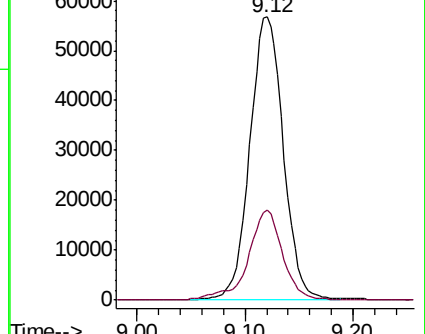
63 100

65 31.8 25.0 37.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 21.842 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

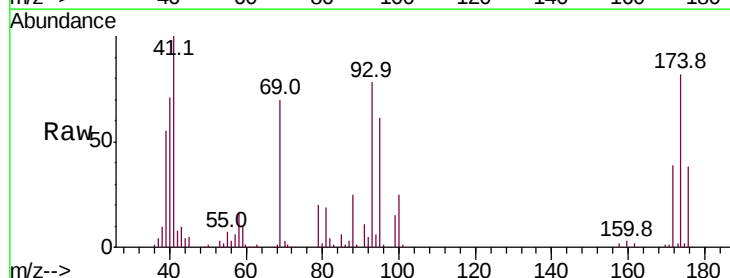
Tgt Ion: 93 Resp: 72317

Ion Ratio Lower Upper

93 100

95 81.8 66.7 100.1

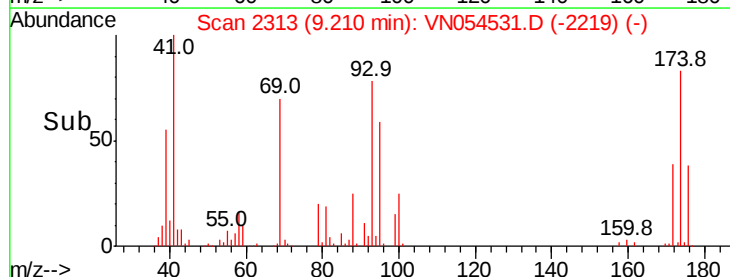
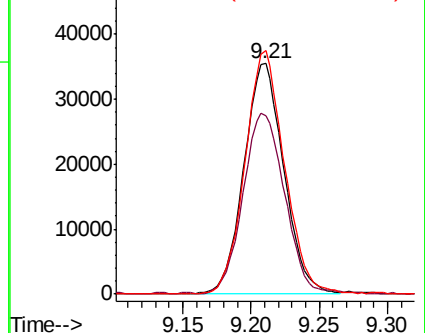
174 104.1 98.5 147.7

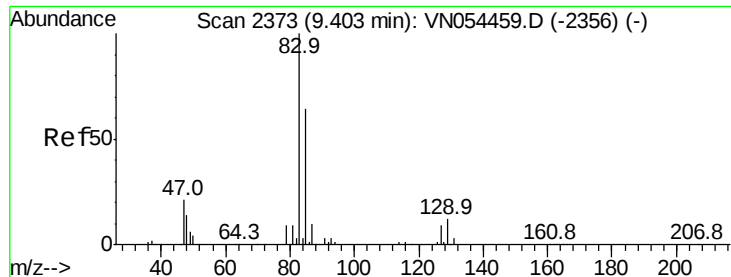


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.602 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

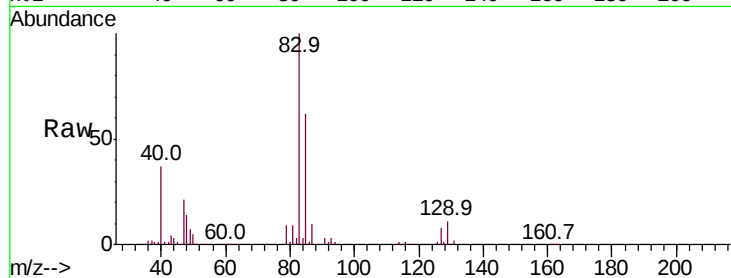
Tot Ion: 83 Resp: 141562

Ion Ratio Lower Upper

83 100

85 62.1 52.8 79.2

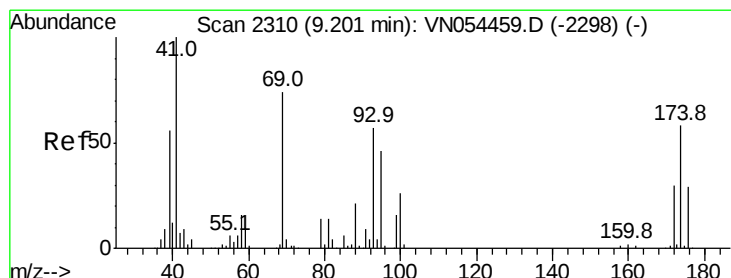
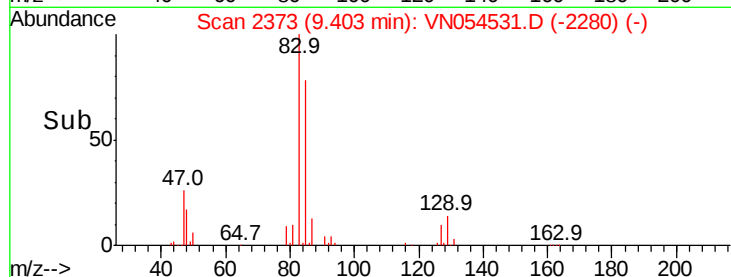
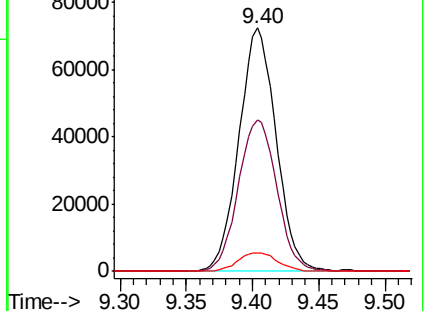
127 7.8 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN054459.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN054459.D (-2356) (-)



#48

Methyl methacrylate

Concen: 22.086 ug/l

RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

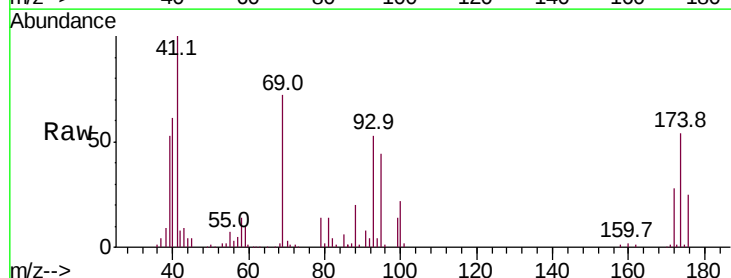
Tgt Ion: 41 Resp: 104069

Ion Ratio Lower Upper

41 100

69 73.7 72.6 108.8

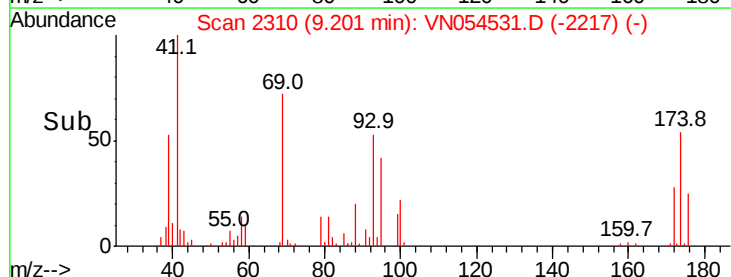
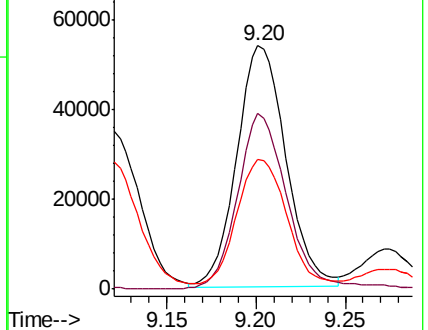
39 55.1 47.5 71.3

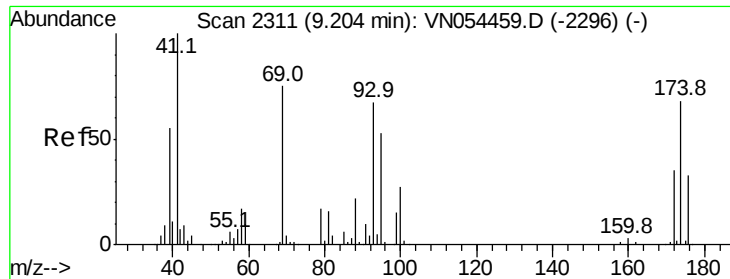


Abundance Ion 41.00 (40.70 to 41.70): VN054459.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN054459.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN054459.D (-2298) (-)





#49

1,4-Dioxane

Concen: 456.447 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

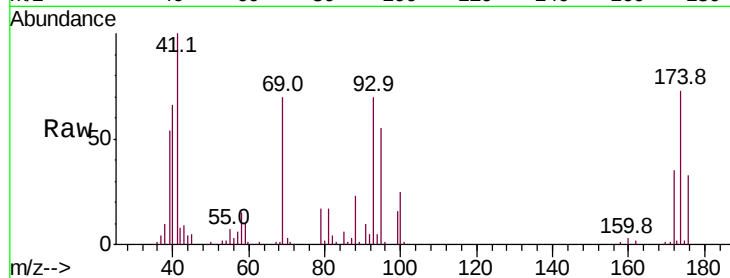
Tot Ion: 88 Resp: 24045

Ion Ratio Lower Upper

88 100

43 36.0 24.1 36.1

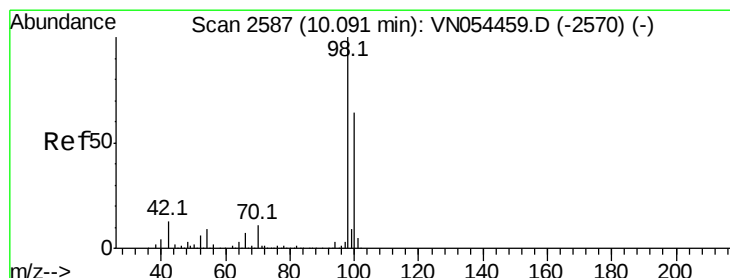
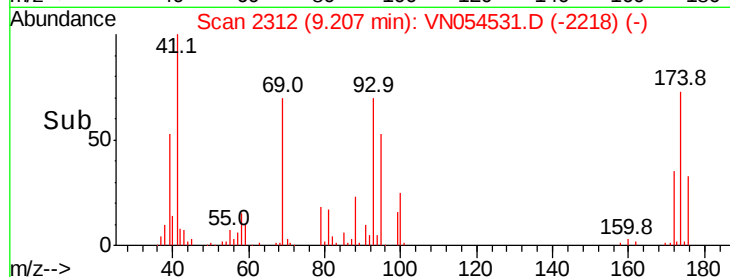
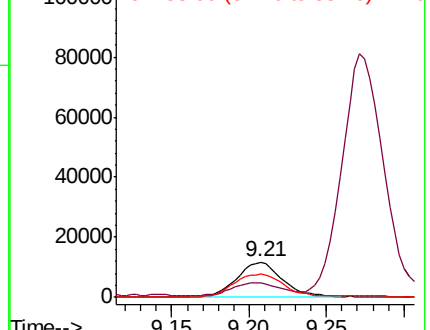
58 72.8 50.8 76.2



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.124 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054531.D

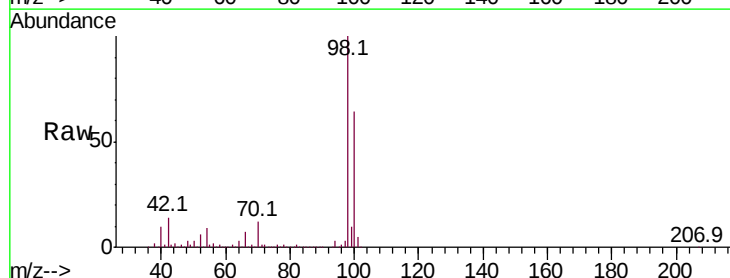
Acq: 22 Mar 2019 1:20

Tgt Ion: 98 Resp: 957156

Ion Ratio Lower Upper

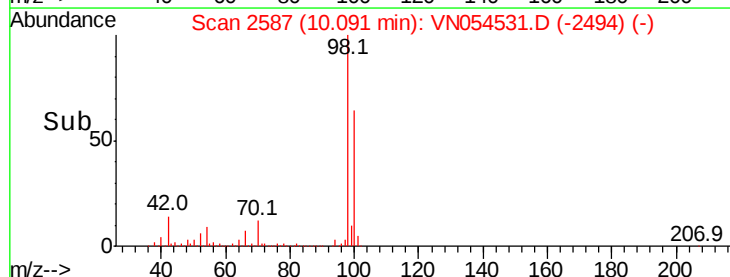
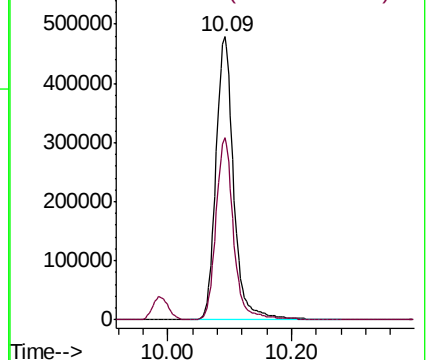
98 100

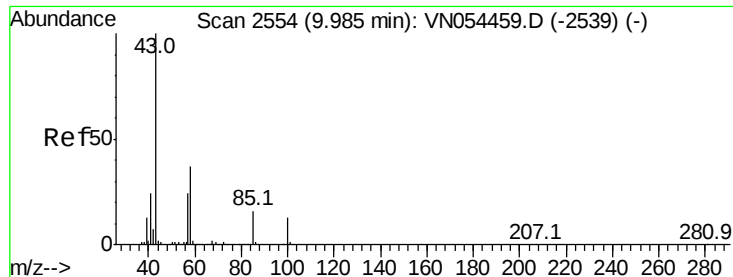
100 63.6 51.2 76.8



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: 117.082 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

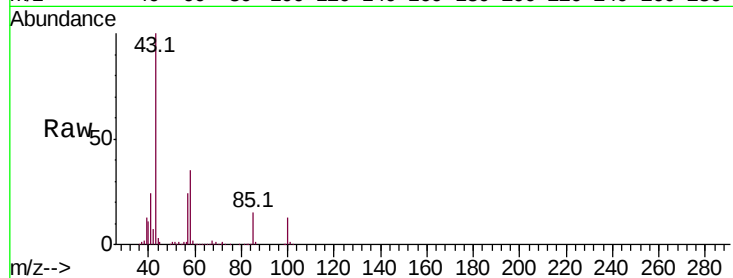
VN0321WBSD02

Tot Ion: 43 Resp: 563334

Ion Ratio Lower Upper

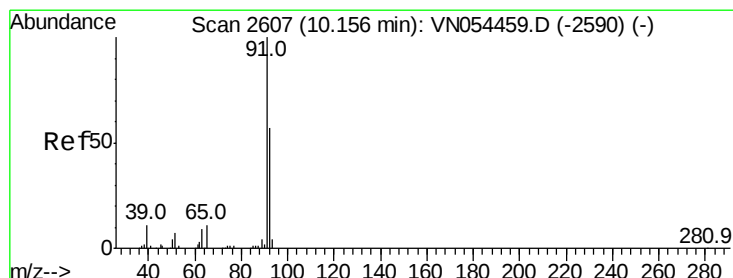
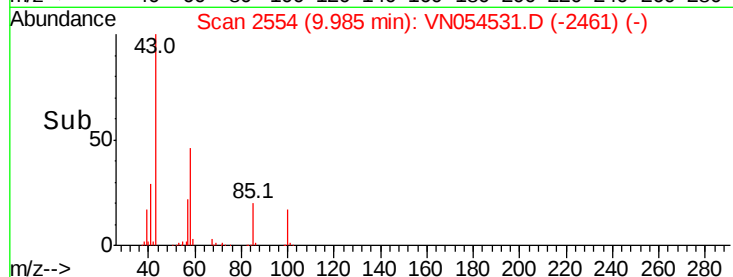
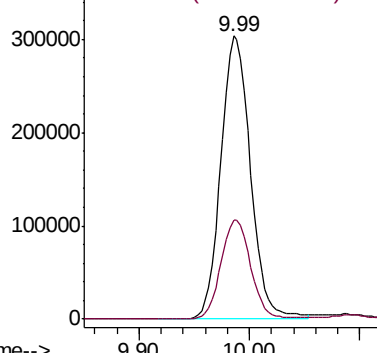
43 100

58 35.4 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.242 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054531.D

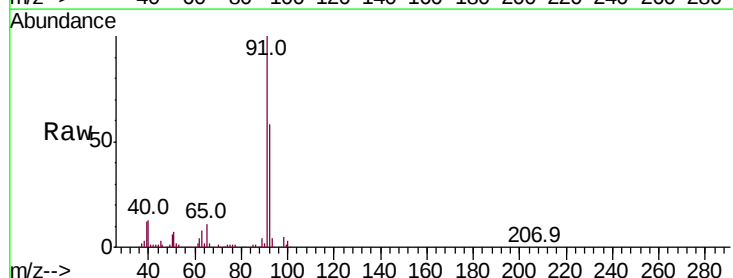
Acq: 22 Mar 2019 1:20

Tgt Ion: 92 Resp: 257310

Ion Ratio Lower Upper

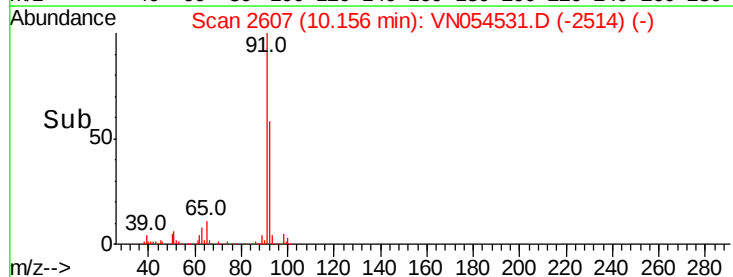
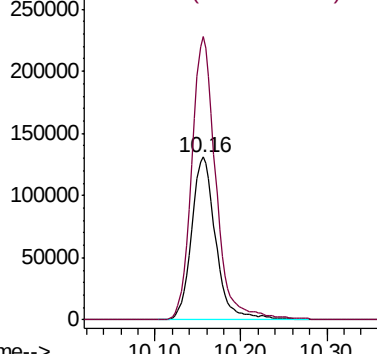
92 100

91 173.9 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 18.423 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

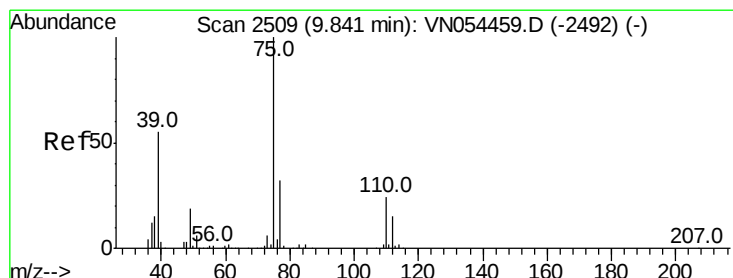
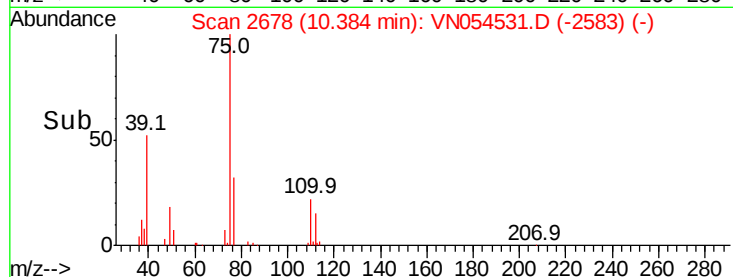
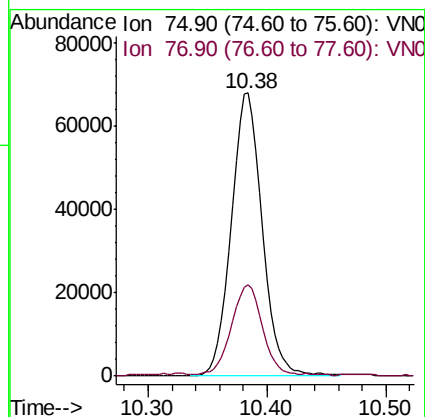
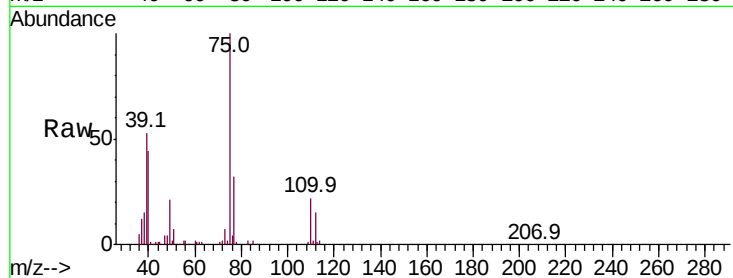
VN0321WBSD02

Tot Ion: 75 Resp: 122841

Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 19.728 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

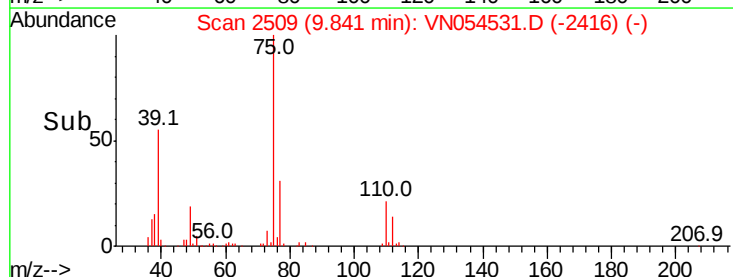
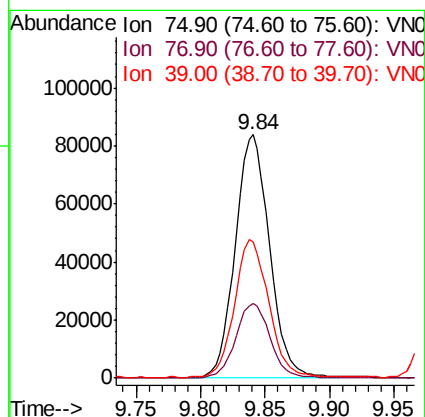
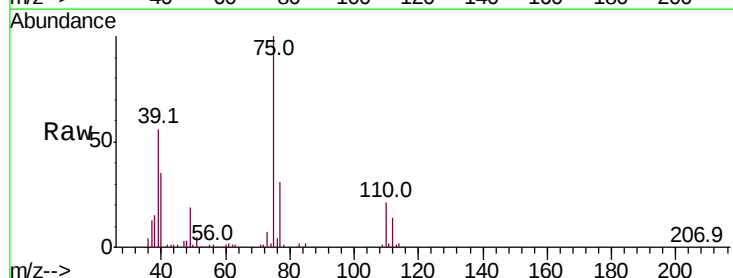
Tgt Ion: 75 Resp: 155426

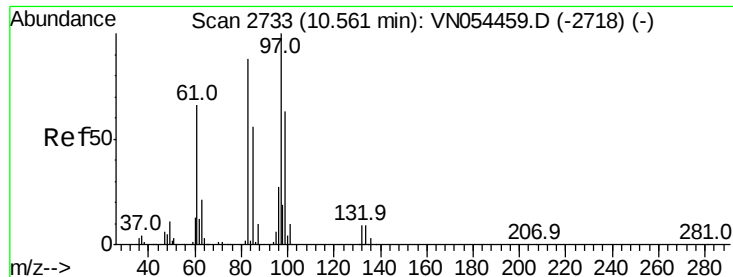
Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.0

39 55.4 37.2 55.8





#55

1,1,2-Trichloroethane

Concen: 21.358 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

Tot Ion: 97 Resp: 97595

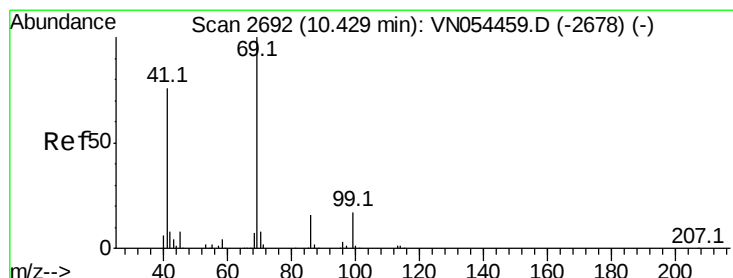
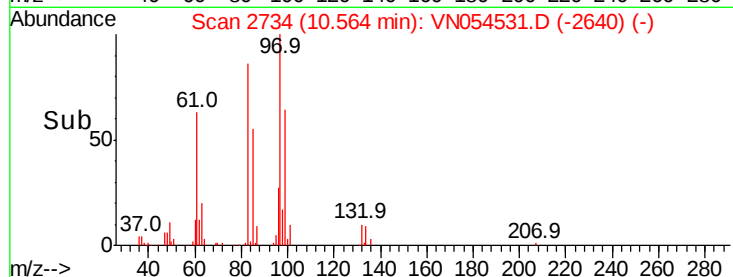
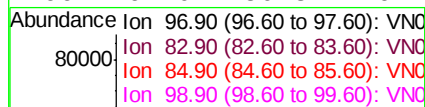
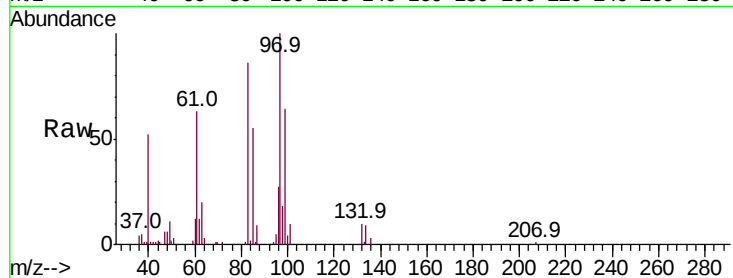
Ion Ratio Lower Upper

97 100

83 86.3 66.6 100.0

85 54.8 44.4 66.6

99 64.0 50.8 76.2



#56

Ethyl methacrylate

Concen: 21.378 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

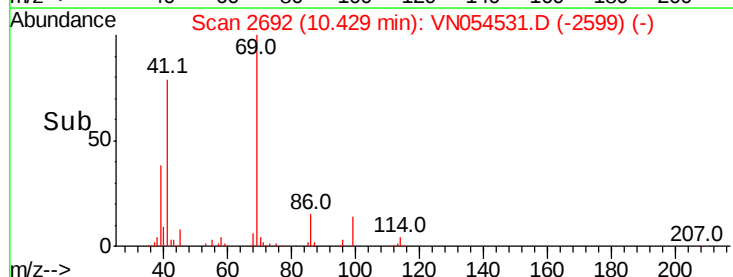
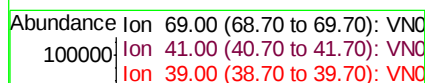
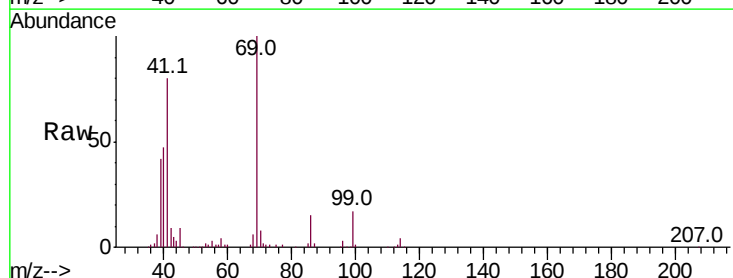
Tgt Ion: 69 Resp: 131115

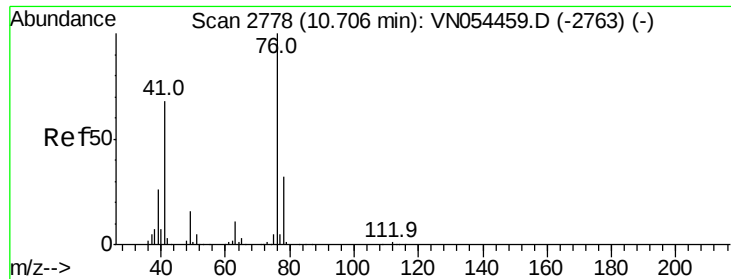
Ion Ratio Lower Upper

69 100

41 76.5 49.4 74.2#

39 41.3 28.3 42.5





#57

1,3-Dichloropropane

Concen: 21.427 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampled :

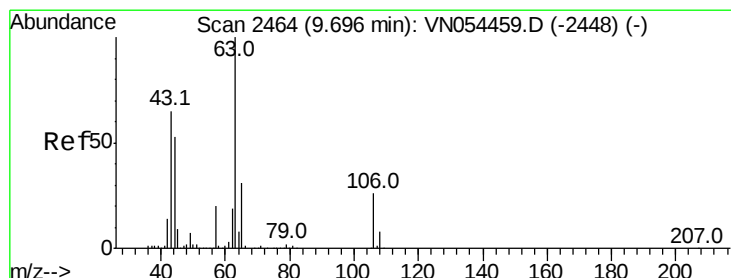
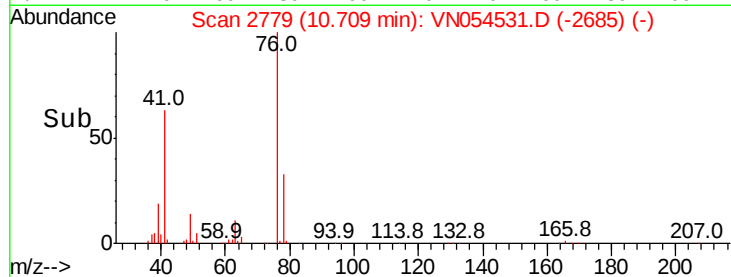
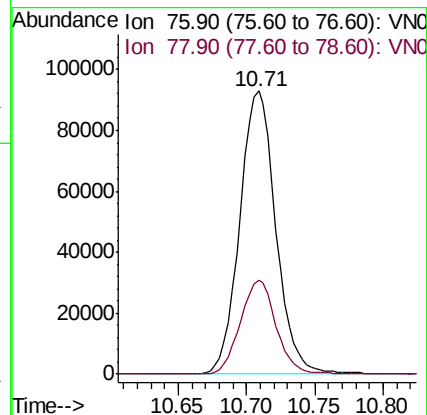
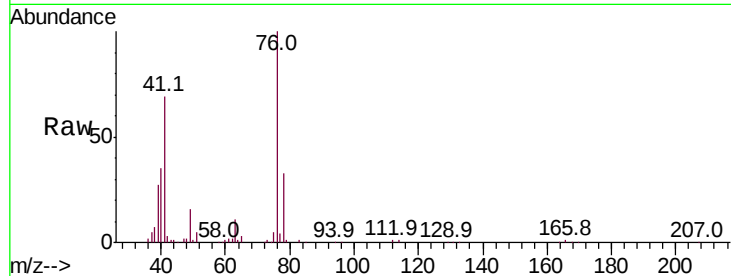
VN0321WBSD02

Tot Ion: 76 Resp: 170199

Ion Ratio Lower Upper

76 100

78 33.0 25.7 38.5



#58

2-Chloroethyl Vinyl ether

Concen: 104.741 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054531.D

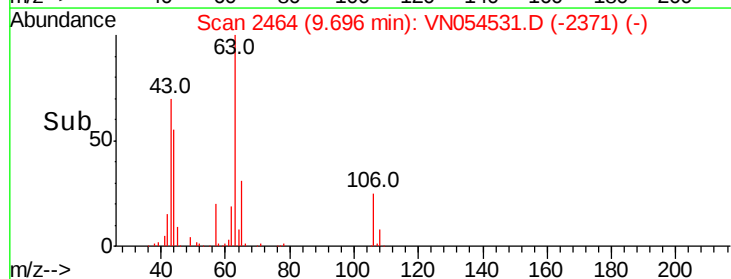
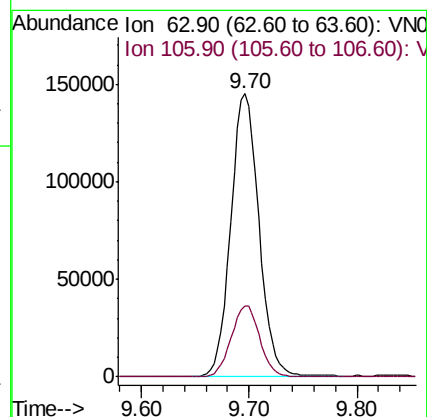
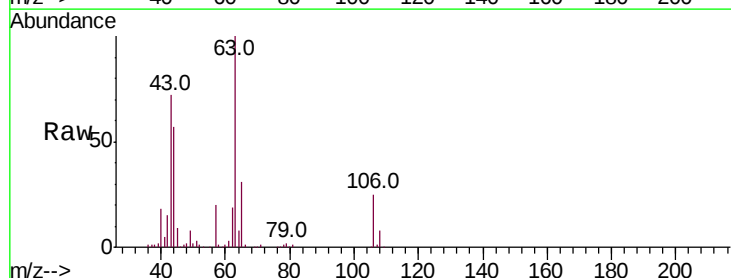
Acq: 22 Mar 2019 1:20

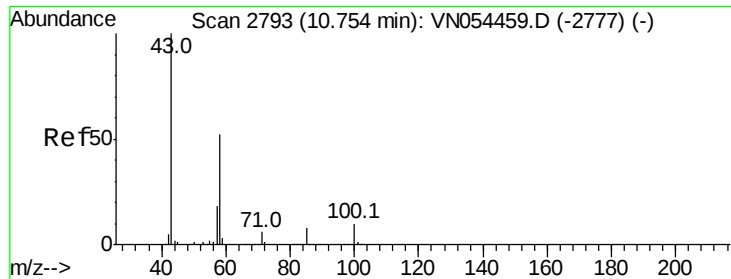
Tgt Ion: 63 Resp: 264519

Ion Ratio Lower Upper

63 100

106 25.3 24.4 36.6





#59

2-Hexanone

Concen: 112.666 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

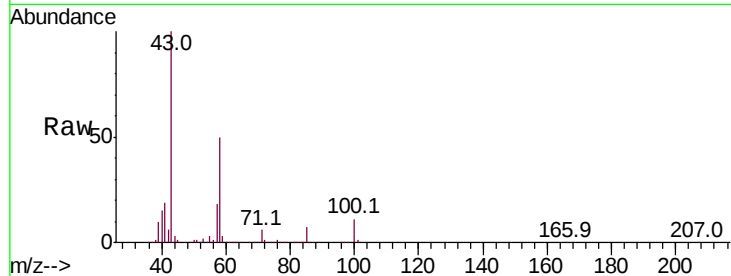
VN0321WBSD02

Tot Ion: 43 Resp: 354082

Ion Ratio Lower Upper

43 100

58 50.1 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2777) (-)

Ion 58.00 (57.70 to 58.70): VN054459.D (-2777) (-)

10.75

200000

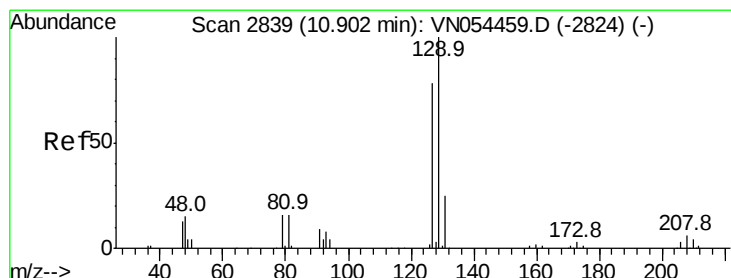
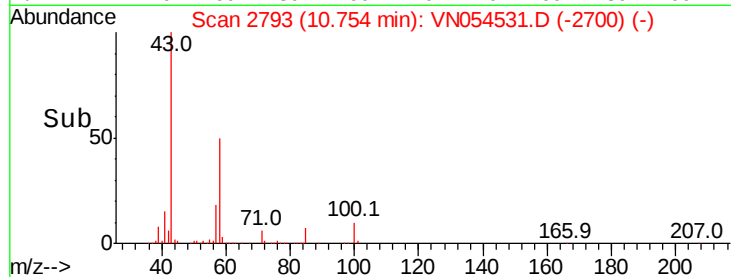
150000

100000

50000

0

Time-->



#60

Dibromochloromethane

Concen: 20.660 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN054531.D

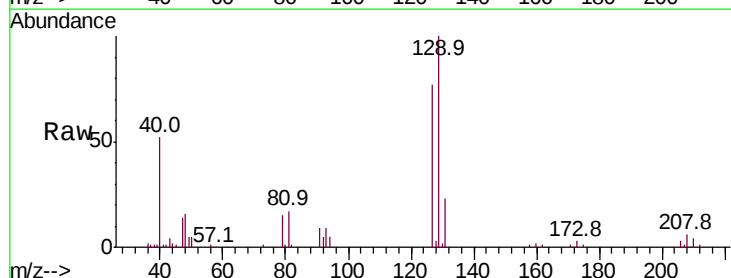
Acq: 22 Mar 2019 1:20

Tgt Ion: 129 Resp: 100454

Ion Ratio Lower Upper

129 100

127 75.5 38.6 115.8



Abundance Ion 128.80 (128.50 to 129.50): VN054459.D (-2824) (-)

Ion 126.80 (126.50 to 127.50): VN054459.D (-2824) (-)

10.90

60000

50000

40000

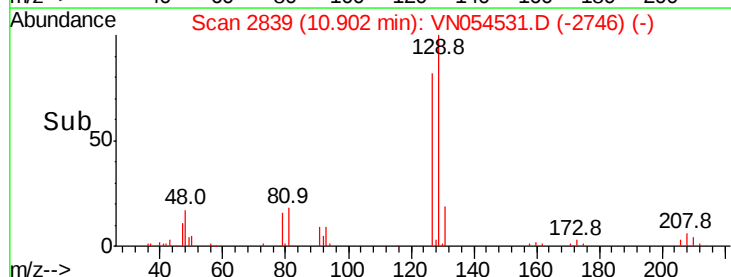
30000

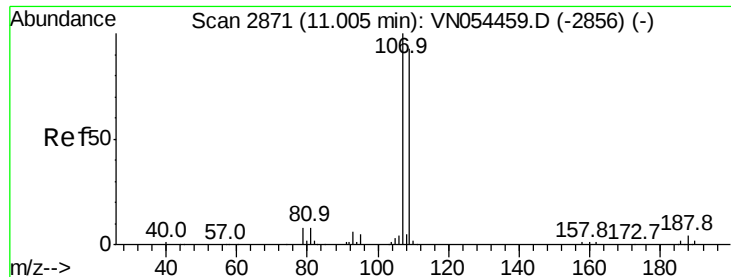
20000

10000

0

Time-->





#61

1,2-Dibromoethane

Concen: 20.597 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

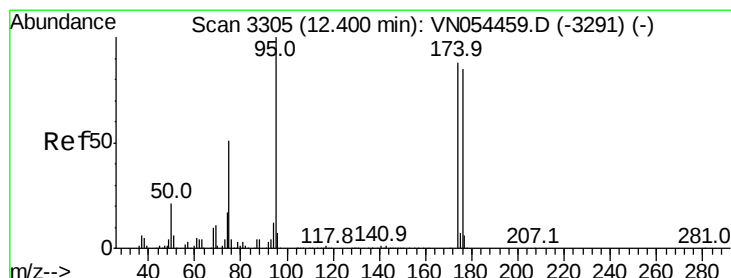
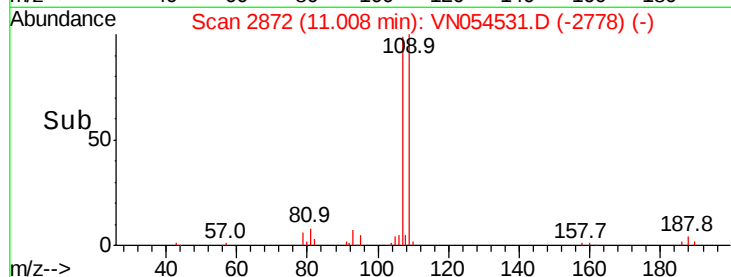
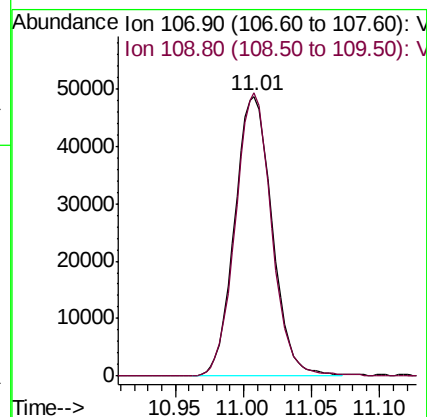
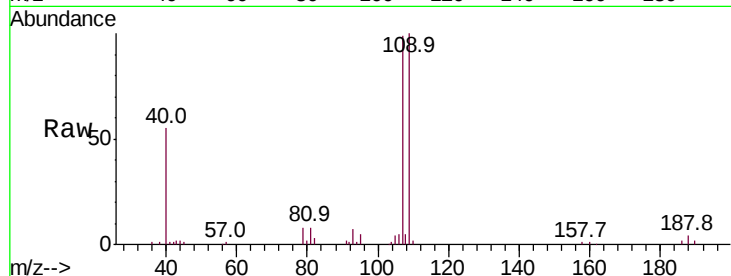
VN0321WBSD02

Tot Ion:107 Resp: 93047

Ion Ratio Lower Upper

107 100

109 98.0 75.9 113.9



#62

4-Bromofluorobenzene

Concen: 48.699 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

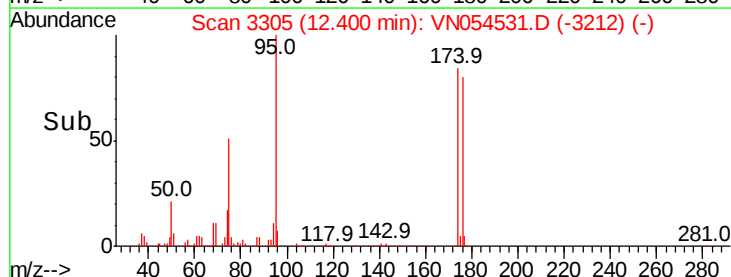
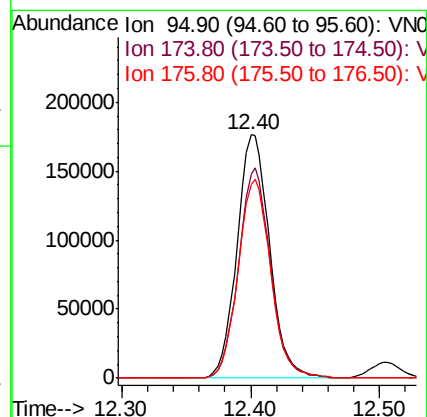
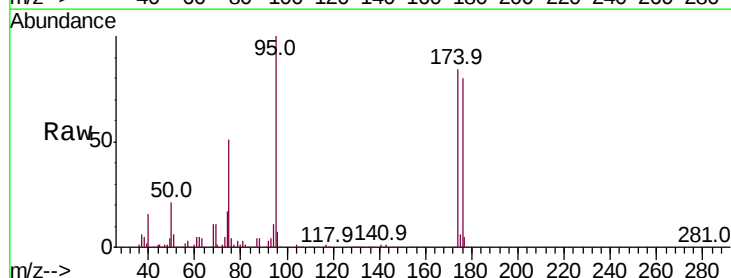
Tgt Ion: 95 Resp: 310250

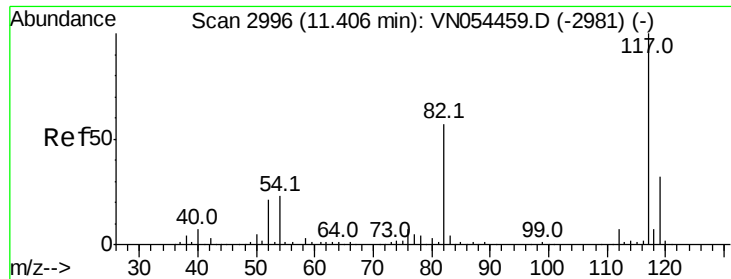
Ion Ratio Lower Upper

95 100

174 84.4 0.0 191.0

176 81.5 0.0 187.4

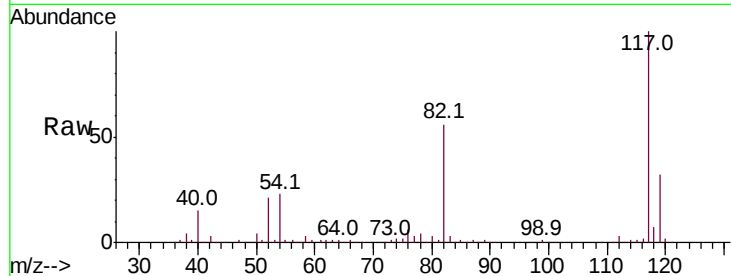




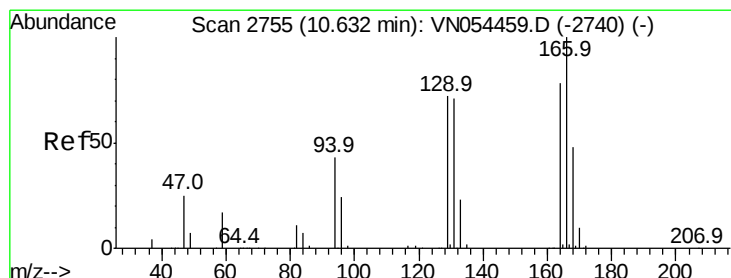
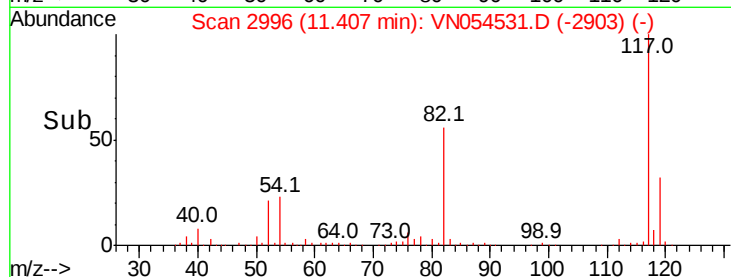
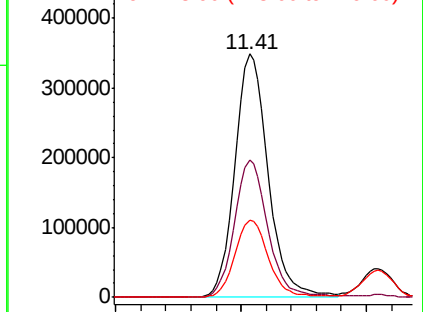
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion:117 Resp: 644271
Ion Ratio Lower Upper
117 100
82 56.2 40.0 60.0
119 31.5 25.8 38.6

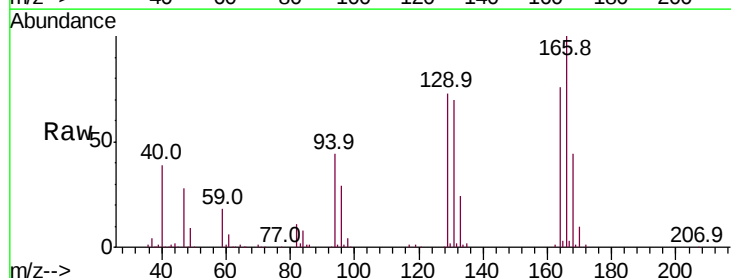


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

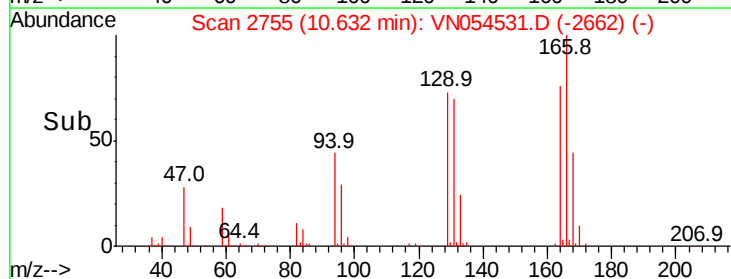
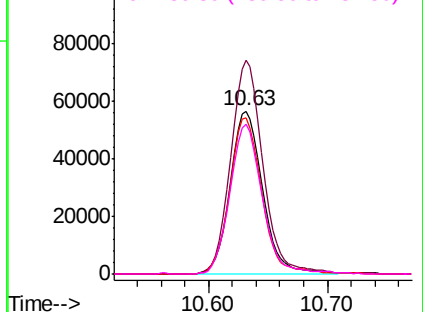


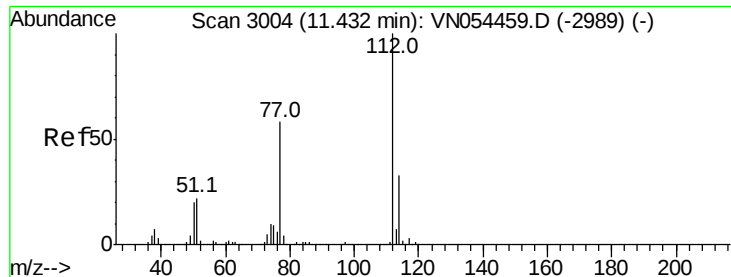
#64
Tetrachloroethene
Concen: 20.118 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:164 Resp: 107509
Ion Ratio Lower Upper
164 100
166 131.4 103.9 155.9
129 96.1 71.1 106.7
131 92.4 68.2 102.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.422 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

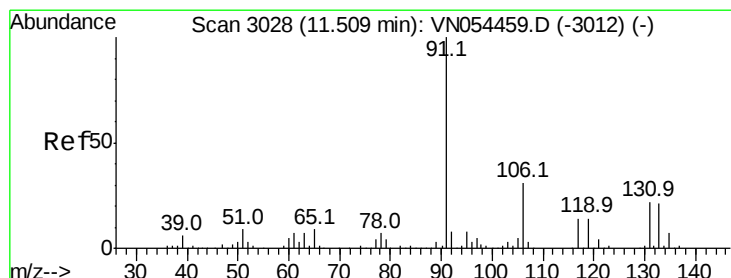
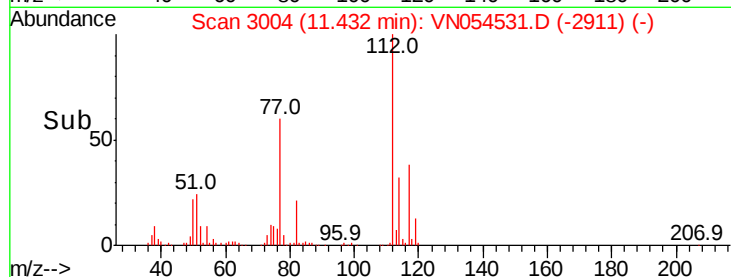
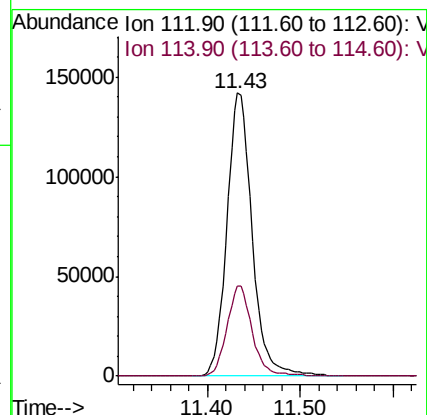
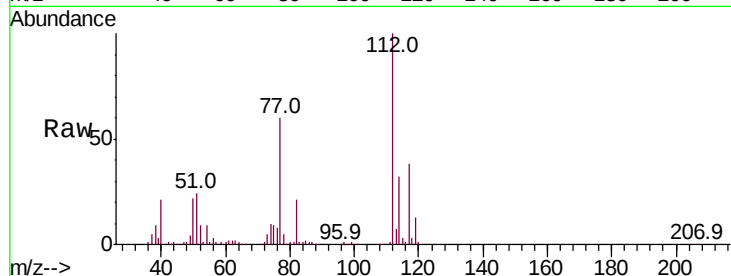
VN0321WBSD02

Tot Ion:112 Resp: 267601

Ion Ratio Lower Upper

112 100

114 31.7 25.9 38.9



#66

1,1,1,2-Tetrachloroethane

Concen: 21.926 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

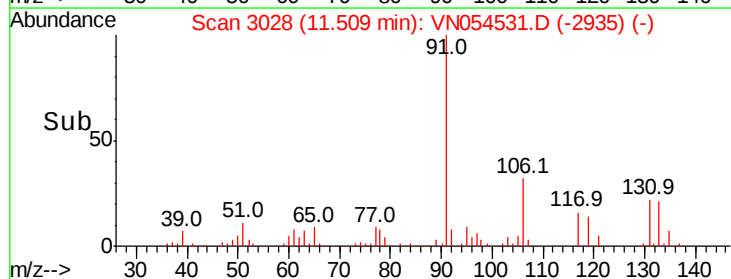
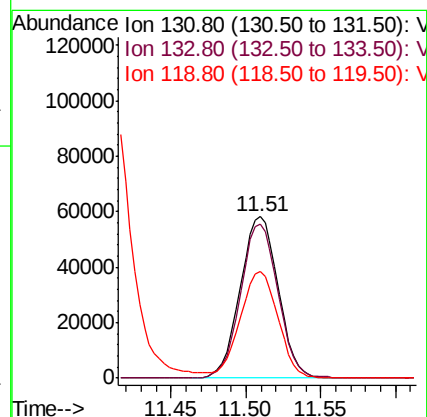
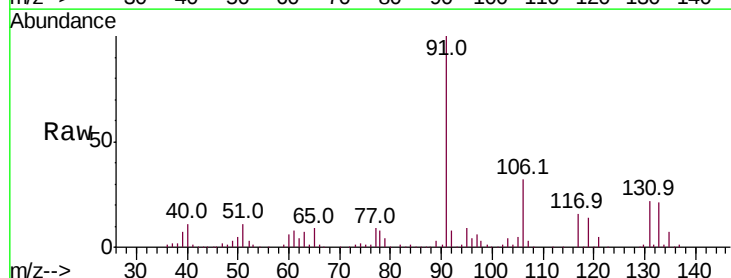
Tgt Ion:131 Resp: 103126

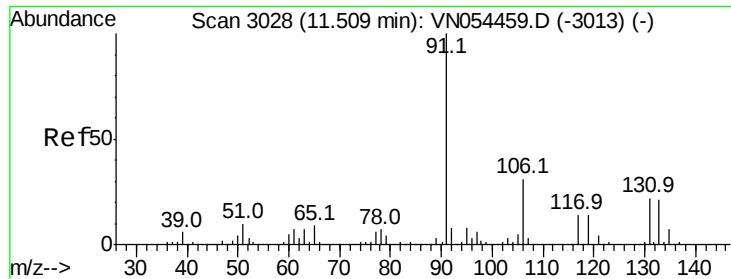
Ion Ratio Lower Upper

131 100

133 94.0 47.6 142.9

119 65.5 32.4 97.0

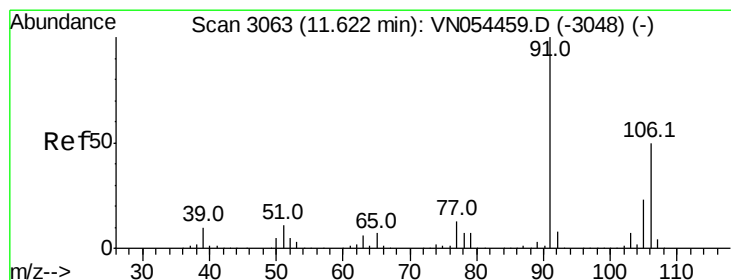
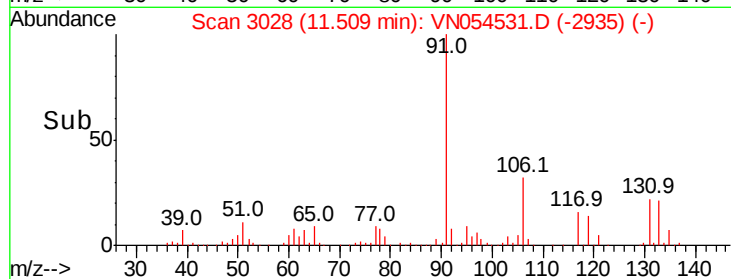
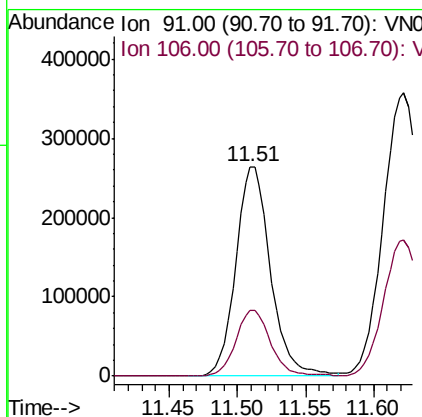
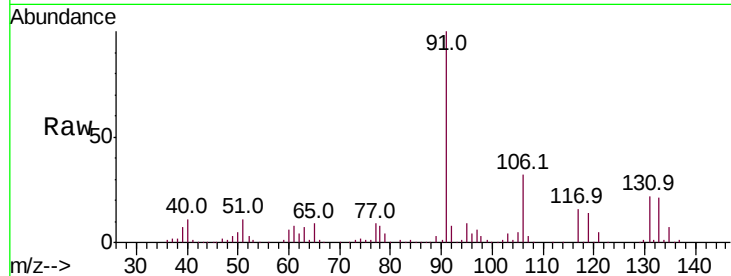




#67
Ethyl Benzene
Concen: 20.212 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

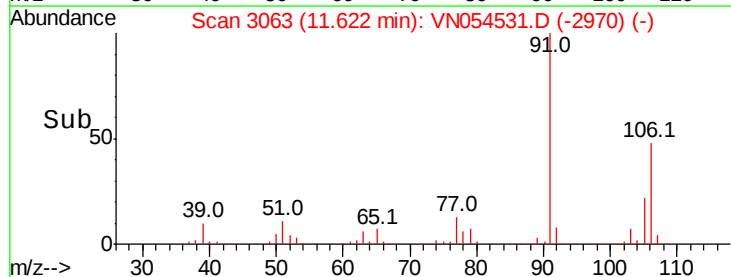
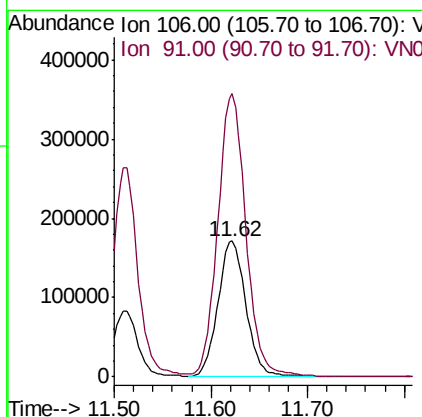
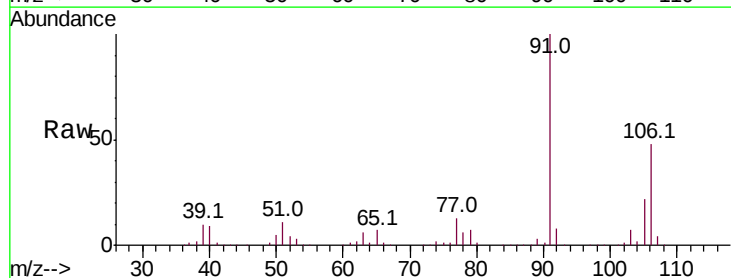
Instrument :
MSVOA_N
ClientSampled :
VN0321WBSD02

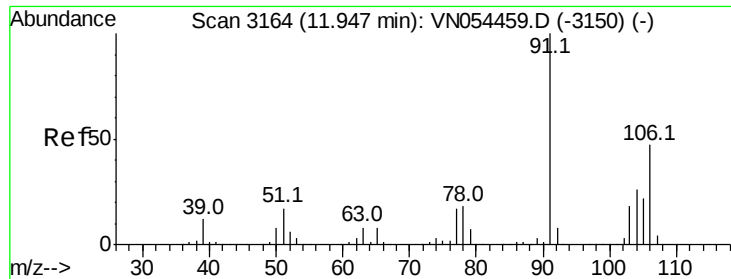
Tot Ion: 91 Resp: 467845
Ion Ratio Lower Upper
91 100
106 31.6 25.5 38.3



#68
m/p-Xylenes
Concen: 39.555 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 106 Resp: 346792
Ion Ratio Lower Upper
106 100
91 209.1 159.4 239.2

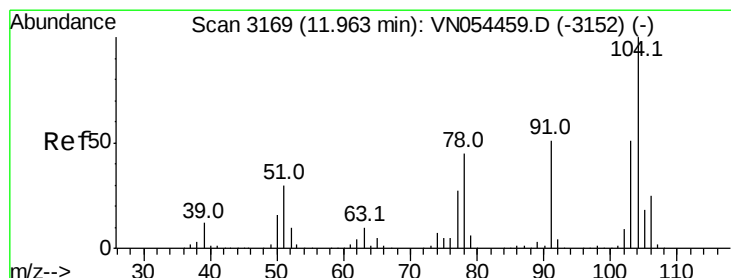
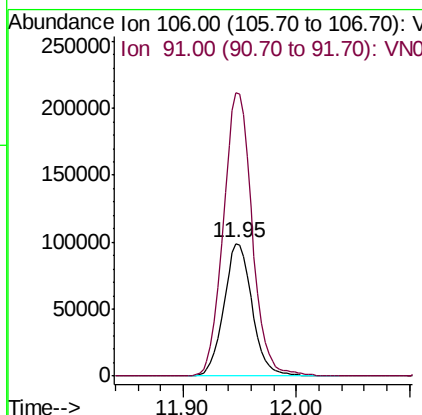
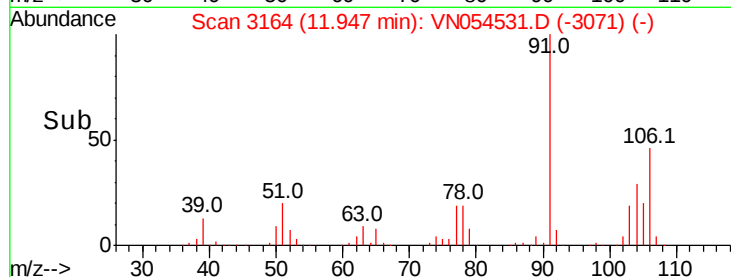
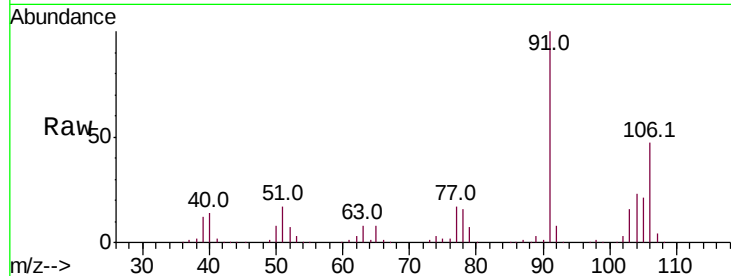




#69
o-Xylene
Concen: 20.152 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

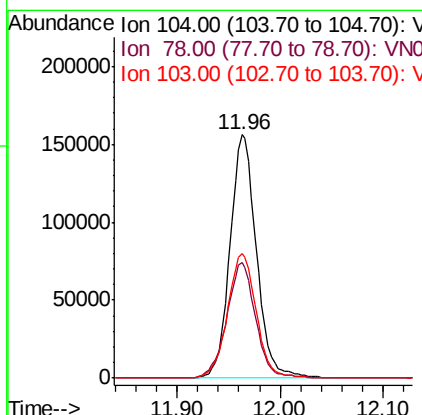
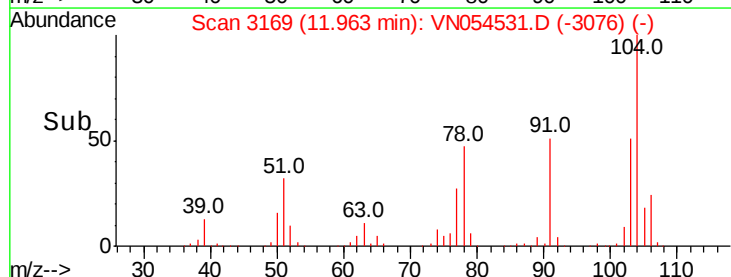
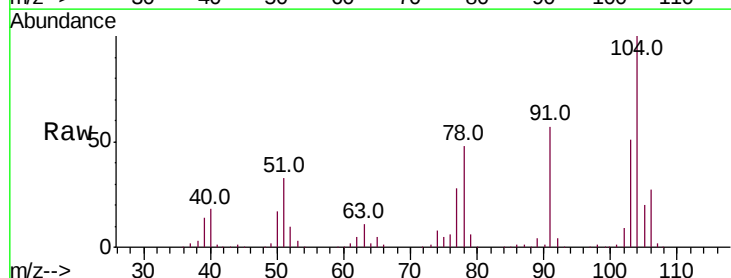
Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

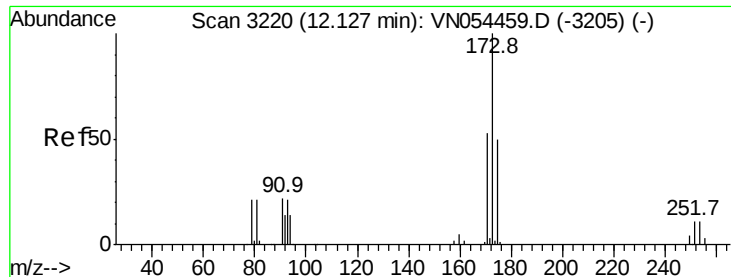
Tot Ion:106 Resp: 172543
Ion Ratio Lower Upper
106 100
91 217.6 105.7 317.1



#70
Styrene
Concen: 20.068 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:104 Resp: 279037
Ion Ratio Lower Upper
104 100
78 51.9 38.2 57.2
103 55.9 44.4 66.6

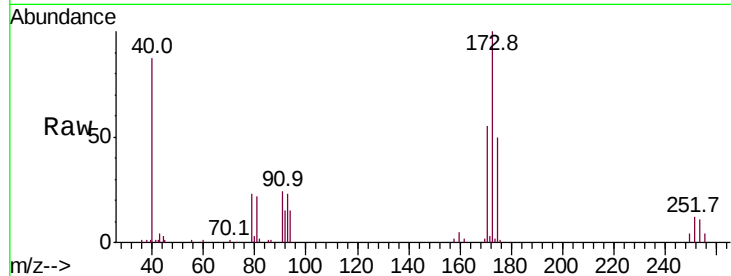




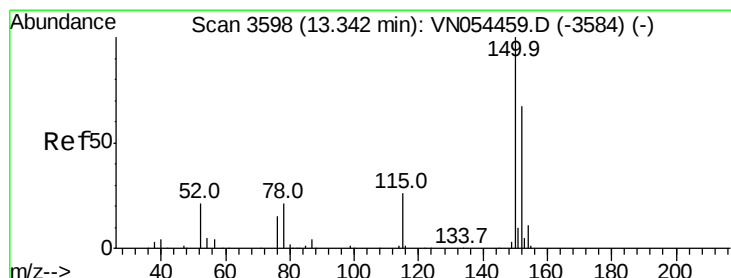
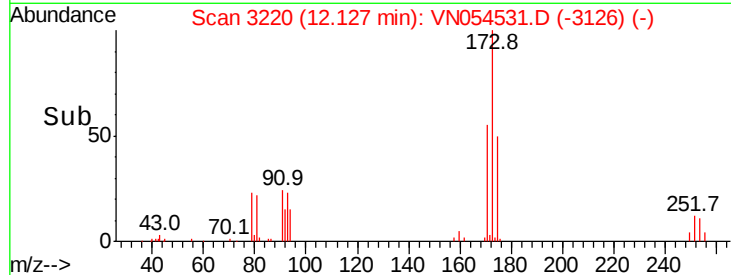
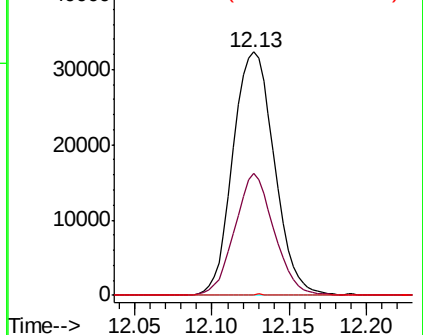
#71
Bromoform
Concen: 19.910 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion:173 Resp: 60026
Ion Ratio Lower Upper
173 100
175 47.6 24.4 73.2
254 0.1 0.1 0.1#

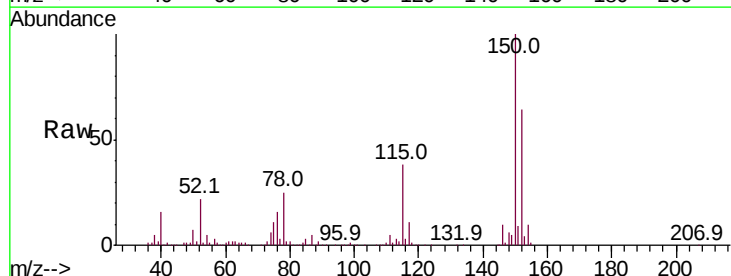


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

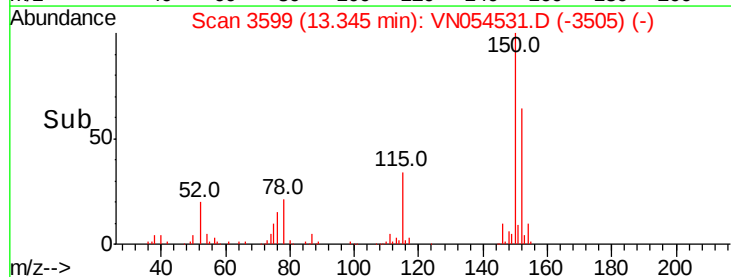
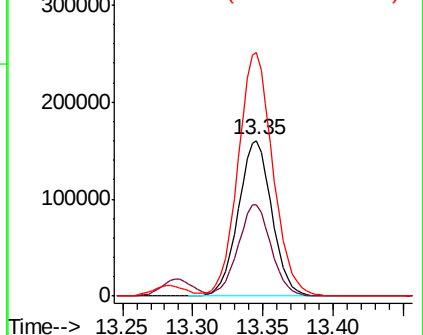


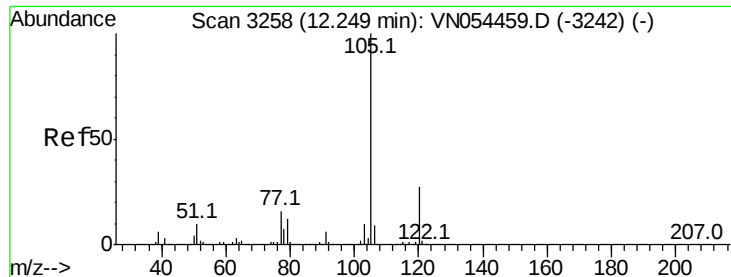
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:152 Resp: 266324
Ion Ratio Lower Upper
152 100
115 58.5 27.2 81.6
150 162.7 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





#73

Isopropylbenzene

Concen: 20.852 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

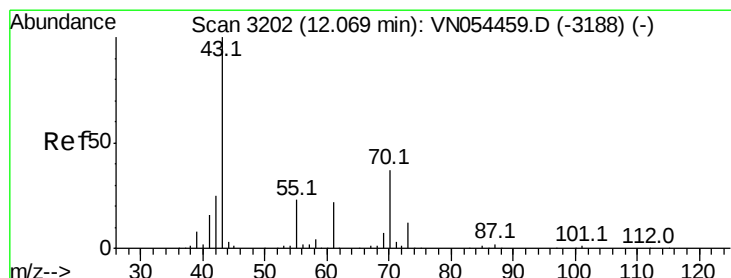
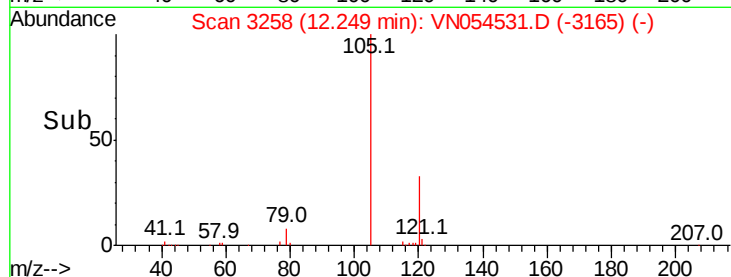
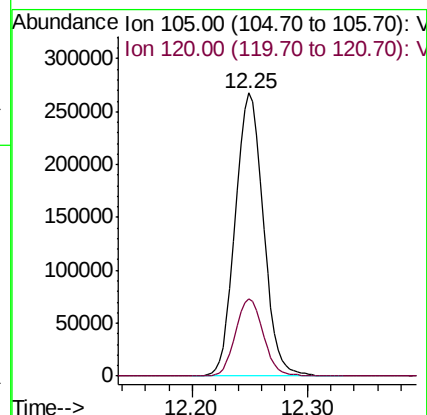
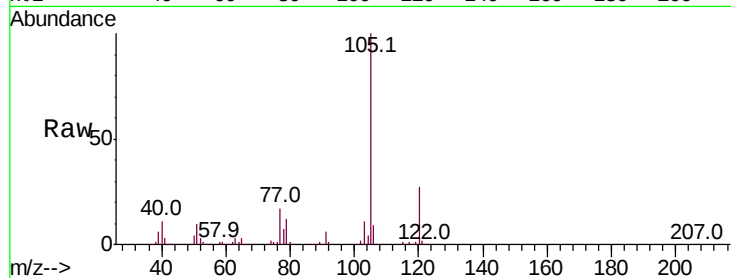
VN0321WBSD02

Tot Ion:105 Resp: 447499

Ion Ratio Lower Upper

105 100

120 26.9 13.8 41.3



#74

N-ethyl acetate

Concen: 23.684 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion: 43 Resp: 146151

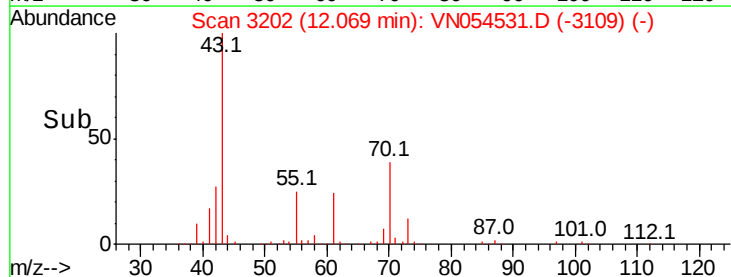
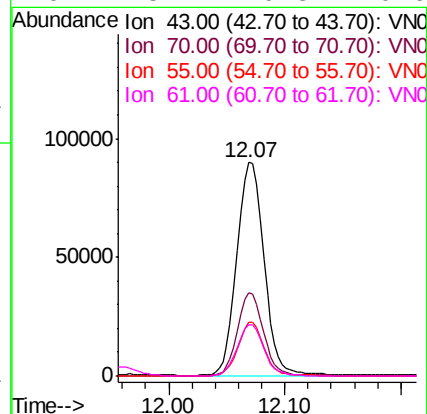
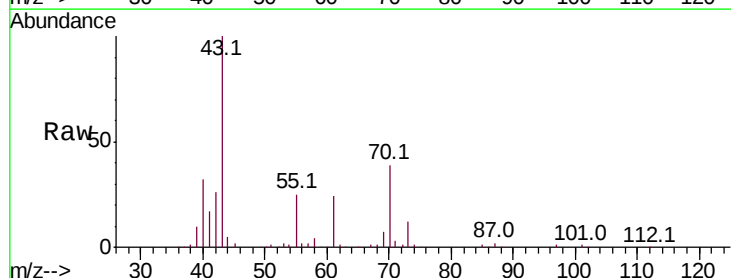
Ion Ratio Lower Upper

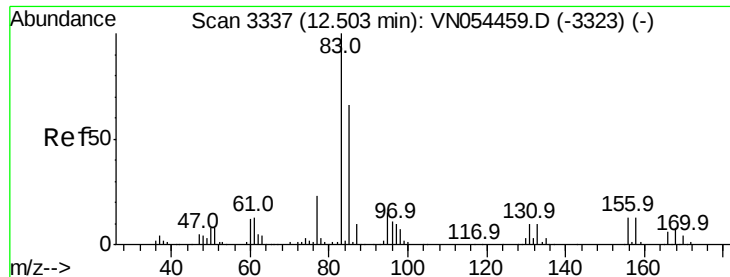
43 100

70 37.5 35.4 53.0

55 24.2 19.8 29.6

61 23.4 19.8 29.6





#75

1,1,2,2-Tetrachloroethane

Concen: 24.381 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

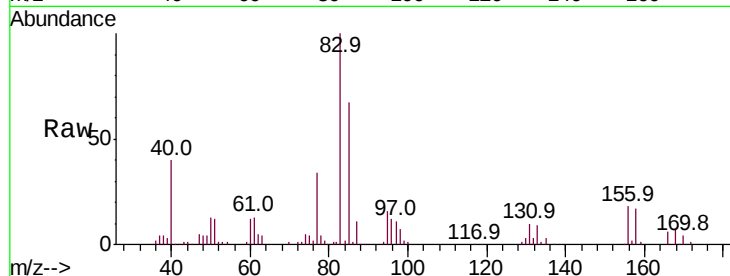
Tot Ion: 83 Resp: 119441

Ion Ratio Lower Upper

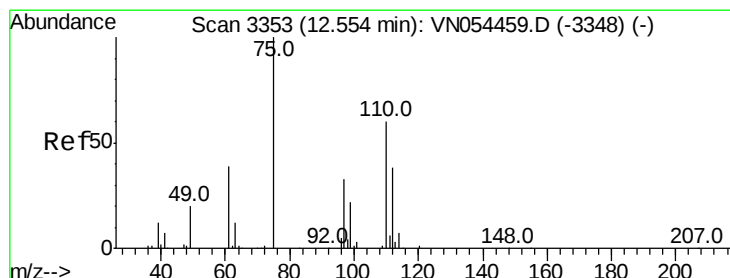
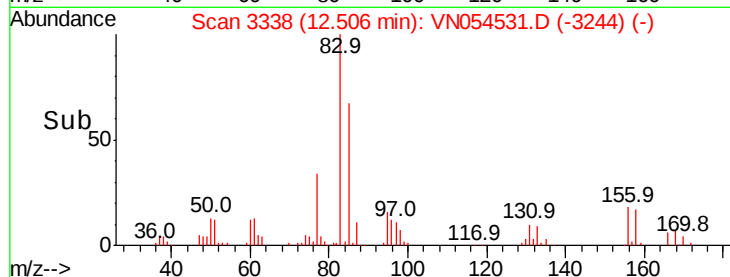
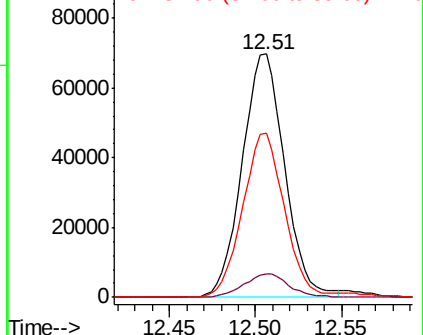
83 100

131 10.2 5.8 17.4

85 66.3 32.2 96.6



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 32.594 ug/l

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN054531.D

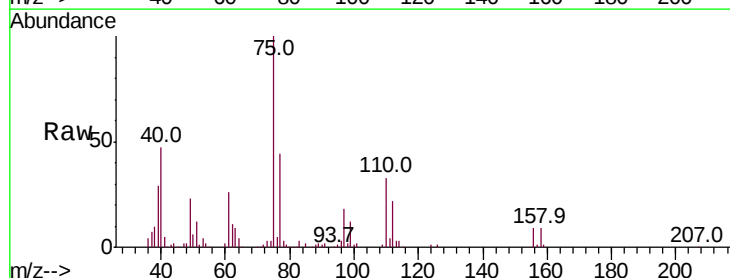
Acq: 22 Mar 2019 1:20

Tgt Ion: 75 Resp: 137746

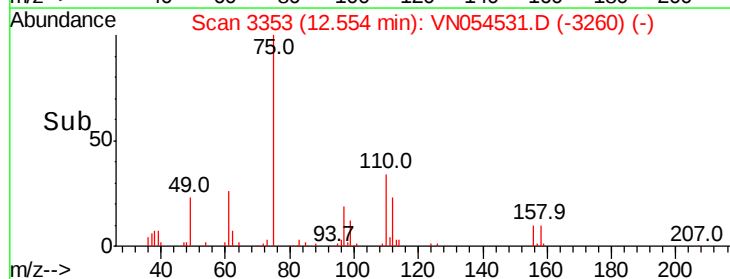
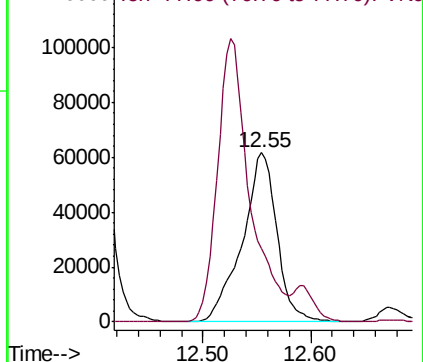
Ion Ratio Lower Upper

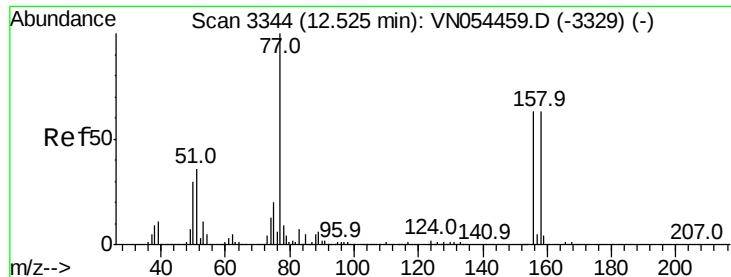
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 21.123 ug/l

RT: 12.53 min Scan# 3345

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampled :

VN0321WBSD02

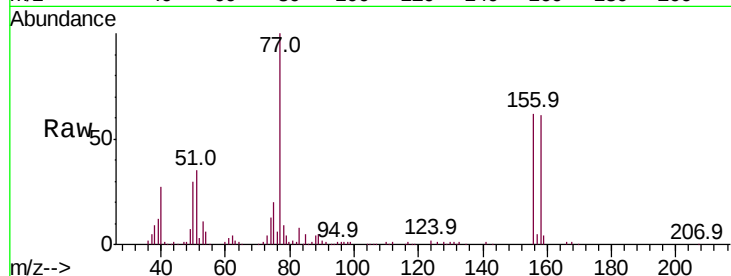
Tot Ion:156 Resp: 112431

Ion Ratio Lower Upper

156 100

77 192.6 81.5 244.4

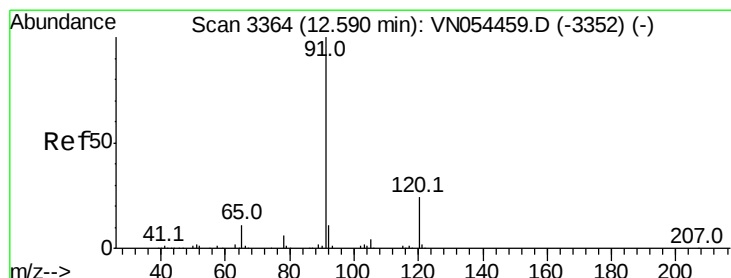
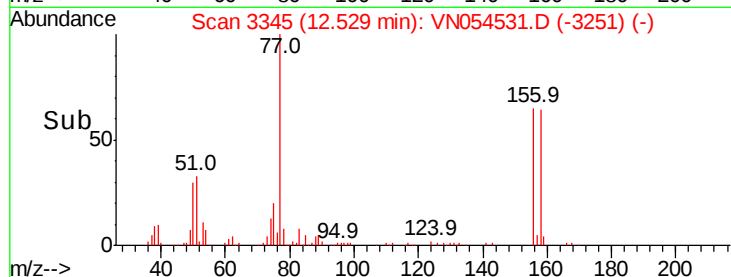
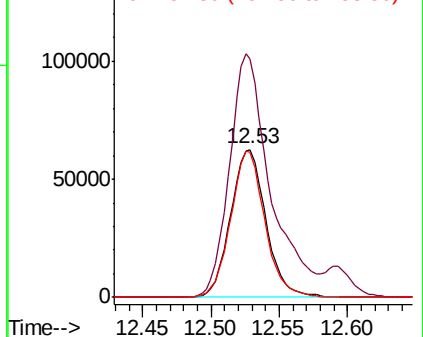
158 96.1 49.0 147.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.992 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054531.D

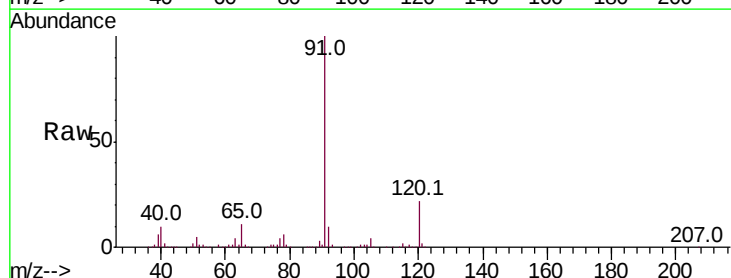
Acq: 22 Mar 2019 1:20

Tgt Ion: 91 Resp: 488509

Ion Ratio Lower Upper

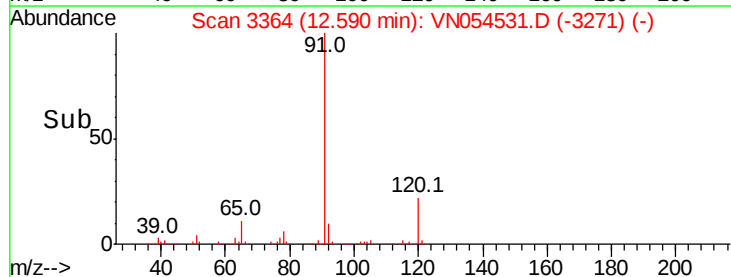
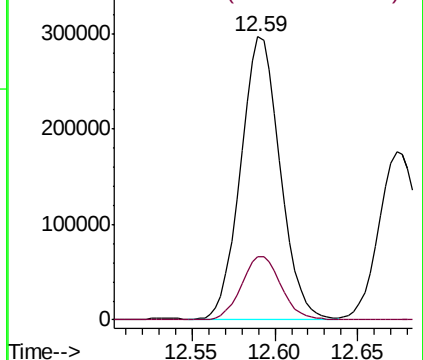
91 100

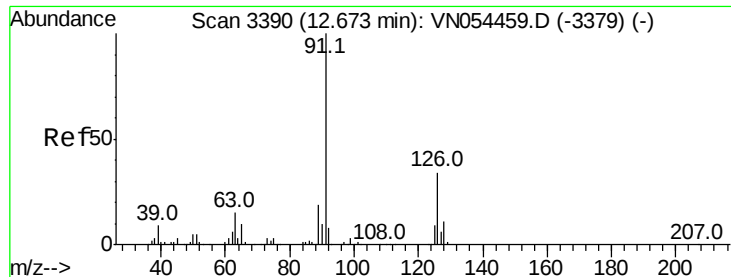
120 22.8 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.859 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

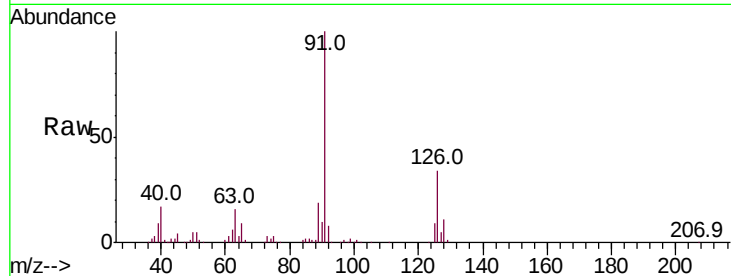
VN0321WBSD02

Tot Ion: 91 Resp: 302702

Ion Ratio Lower Upper

91 100

126 34.5 18.7 56.1



Abundance Ion 91.00 (90.70 to 91.70): VN054459.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054459.D (-3379) (-)

250000

200000

150000

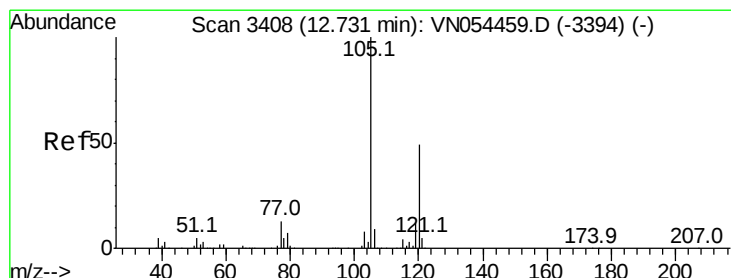
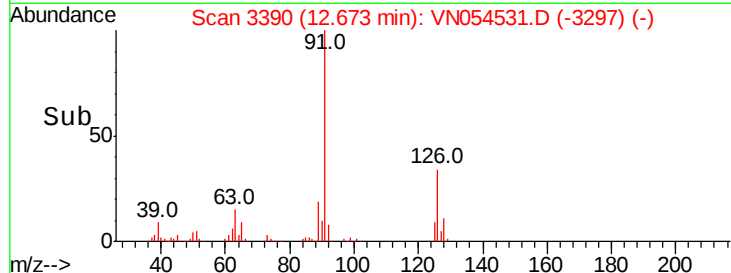
100000

50000

0

12.65 12.67 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.722 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054531.D

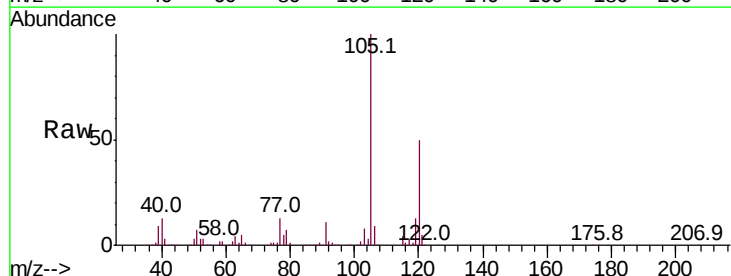
Acq: 22 Mar 2019 1:20

Tgt Ion: 105 Resp: 364474

Ion Ratio Lower Upper

105 100

120 49.5 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

250000

200000

150000

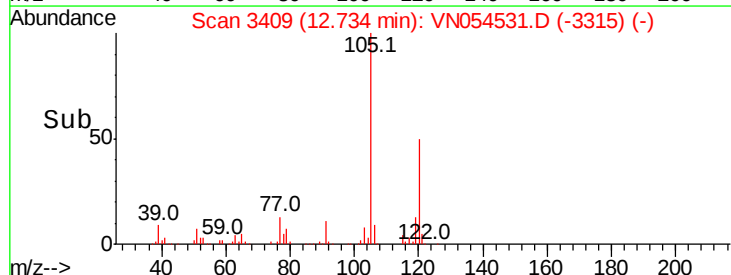
100000

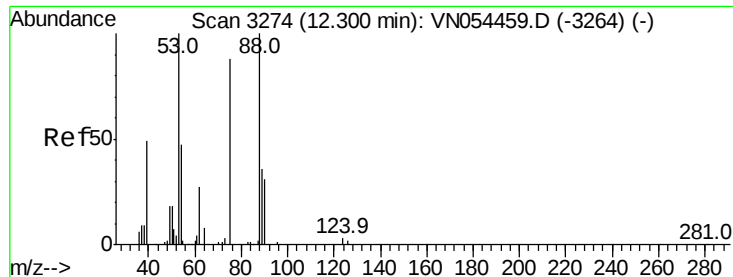
50000

0

12.70 12.73 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.445 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampled :

VN0321WBSD02

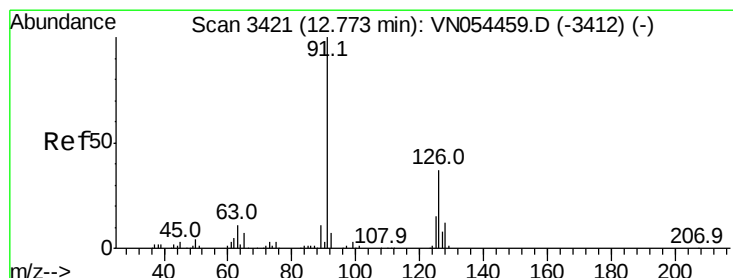
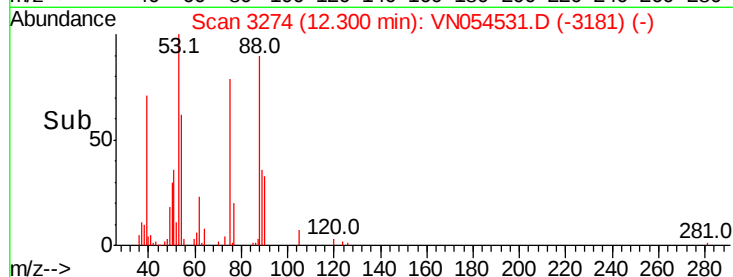
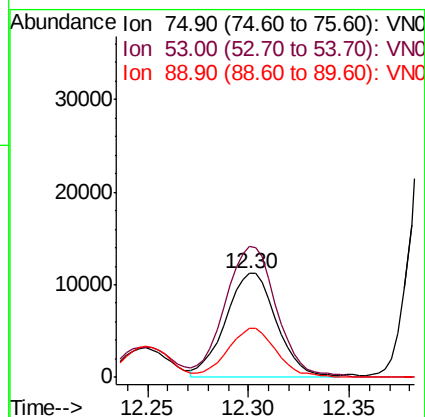
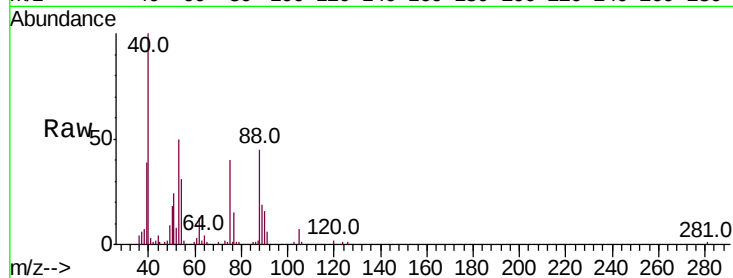
Tot Ion: 75 Resp: 19992

Ion Ratio Lower Upper

75 100

53 126.1 76.2 114.2#

89 44.9 39.2 58.8



#82

4-Chlorotoluene

Concen: 20.627 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054531.D

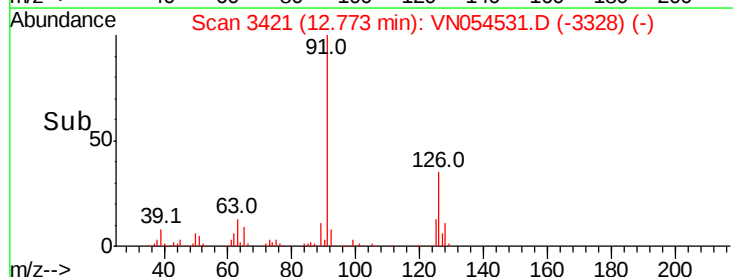
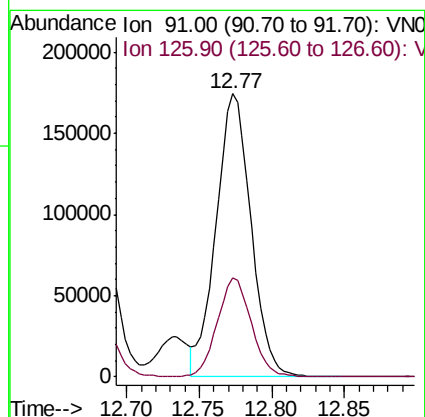
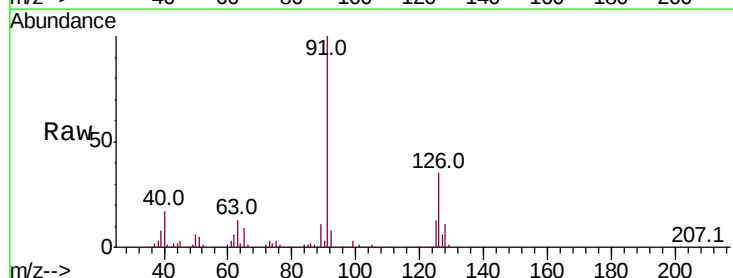
Acq: 22 Mar 2019 1:20

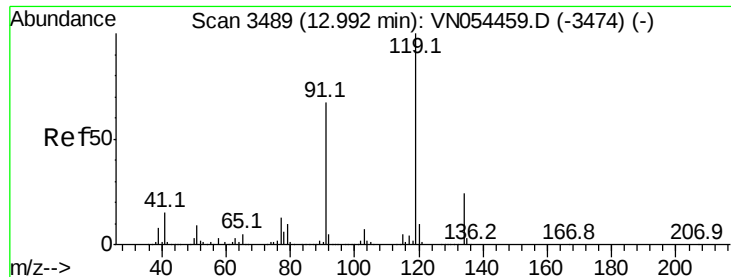
Tgt Ion: 91 Resp: 290146

Ion Ratio Lower Upper

91 100

126 34.1 18.1 54.1

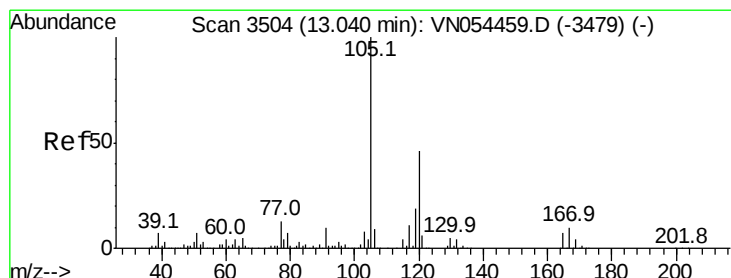
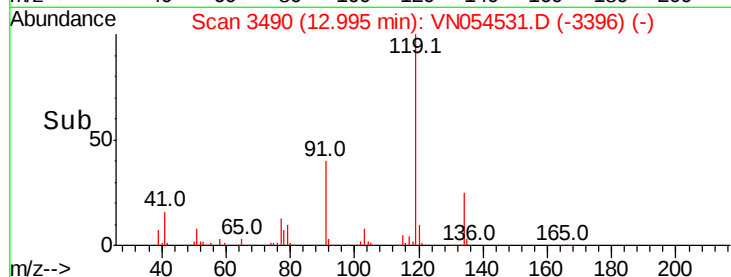
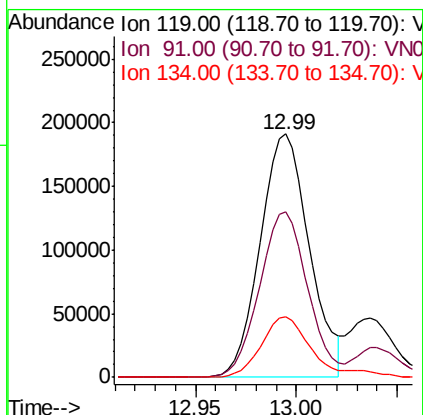
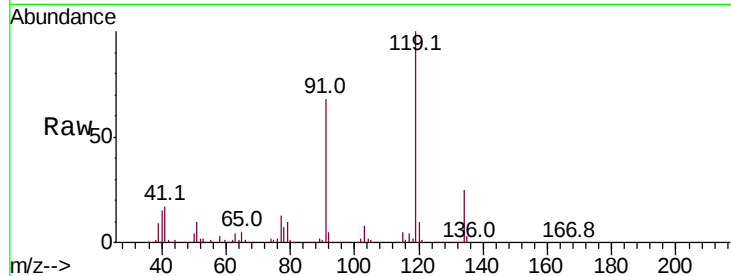




#83
tert-Butylbenzene
Concen: 21.241 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

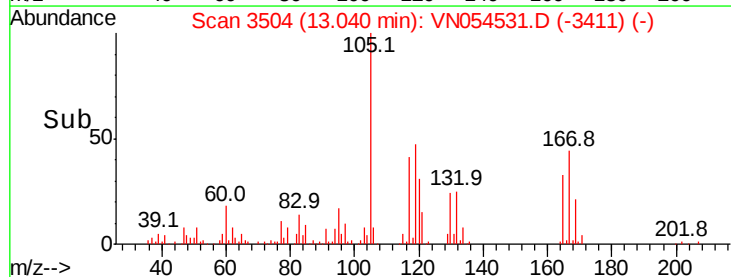
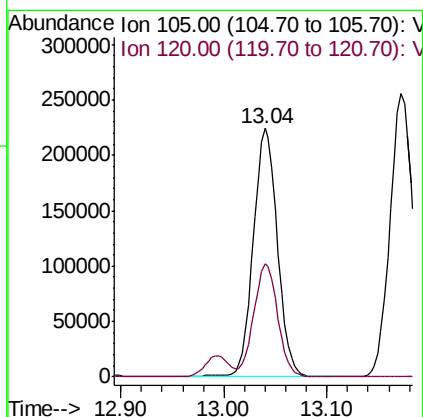
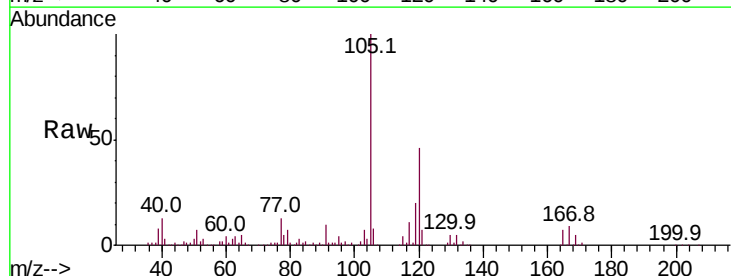
Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

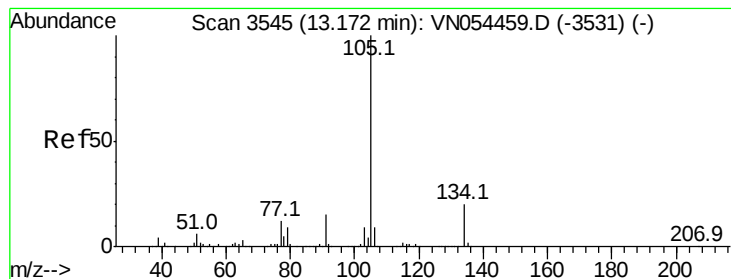
Tot Ion:119 Resp: 325206
Ion Ratio Lower Upper
119 100
91 66.7 30.9 92.8
134 26.0 13.2 39.6



#84
1,2,4-Trimethylbenzene
Concen: 21.029 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion:105 Resp: 362936
Ion Ratio Lower Upper
105 100
120 45.4 23.4 70.3





#85

sec-Butylbenzene

Concen: 21.084 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

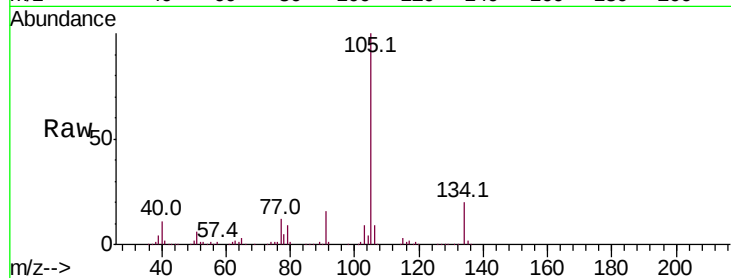
VN0321WBSD02

Tot Ion:105 Resp: 402398

Ion Ratio Lower Upper

105 100

134 19.9 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

250000

200000

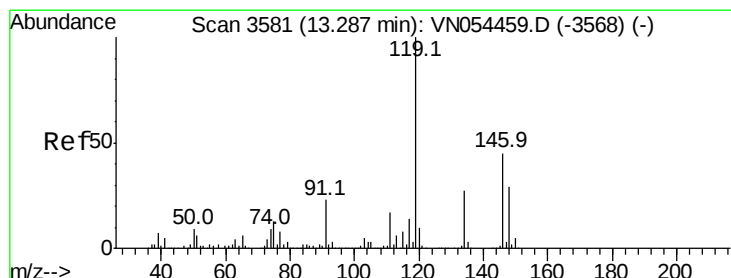
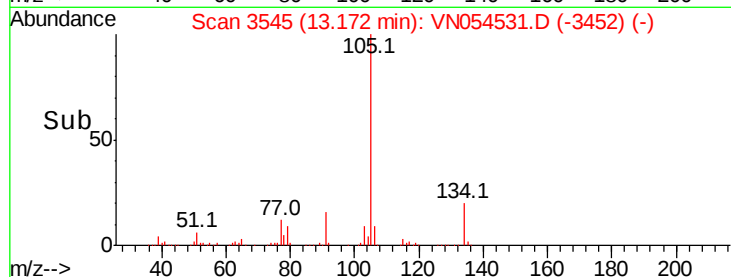
150000

100000

50000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.536 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

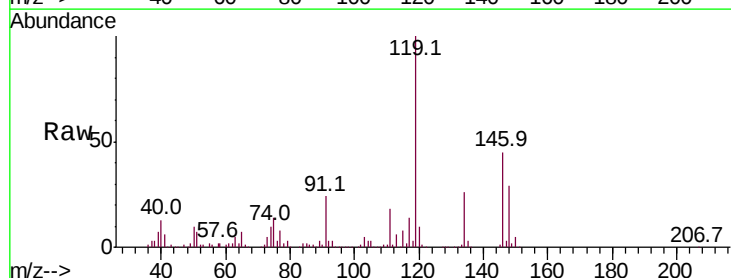
Tgt Ion:119 Resp: 350655

Ion Ratio Lower Upper

119 100

134 26.3 13.6 40.8

91 23.7 11.1 33.3



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

250000

200000

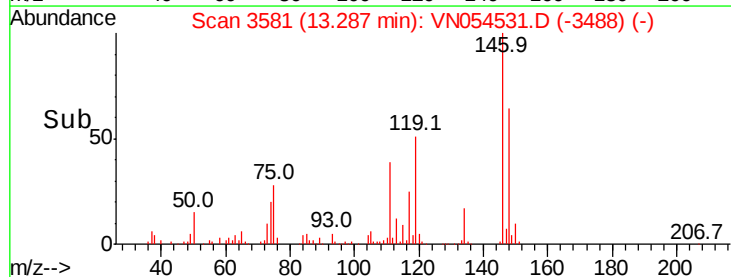
150000

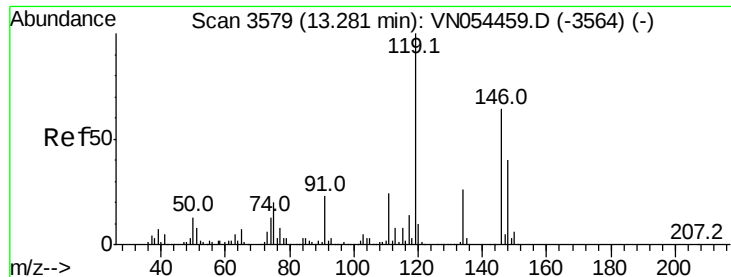
100000

50000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 20.377 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

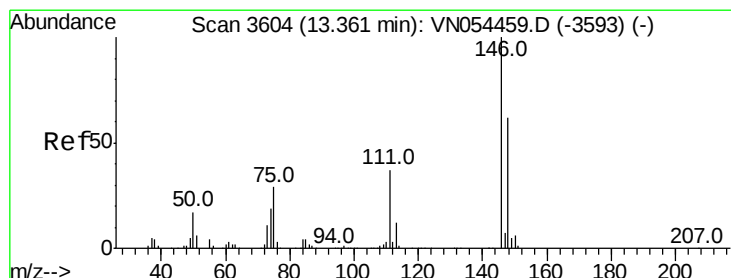
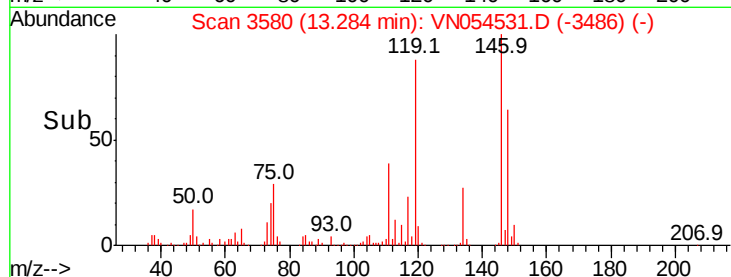
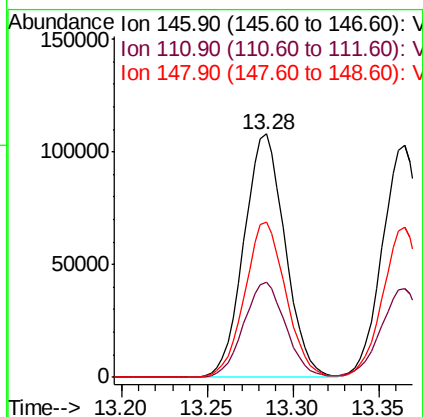
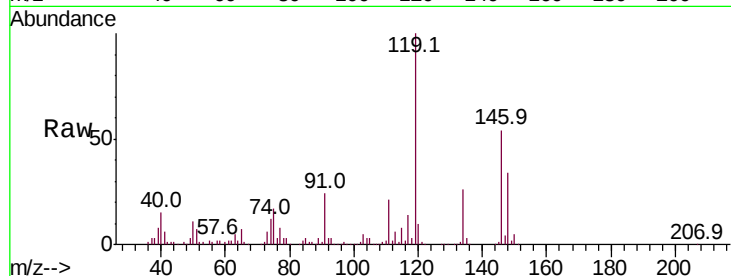
Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :
MSVOA_N
ClientSampleId :
VN0321WBSD02

Tot Ion:146 Resp: 179736

Ion	Ratio	Lower	Upper
146	100		
111	39.7	18.8	56.3
148	63.5	32.2	96.6



#88

1,4-Dichlorobenzene

Concen: 20.010 ug/l

RT: 13.36 min Scan# 3605

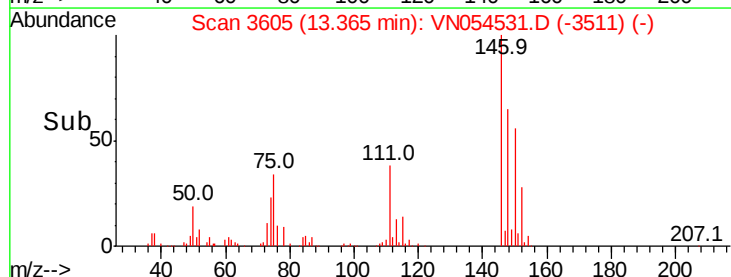
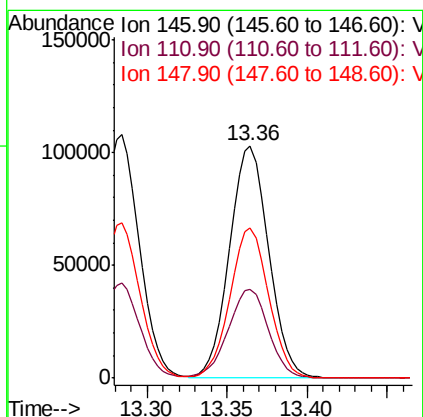
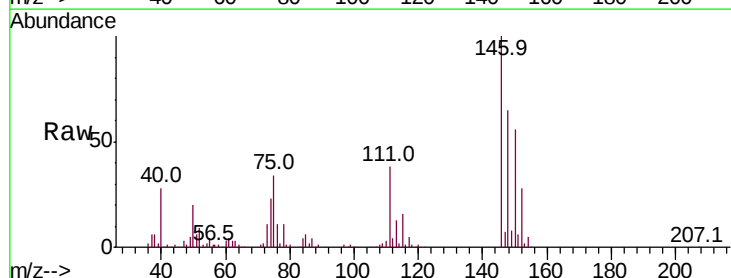
Delta R.T. 0.00 min

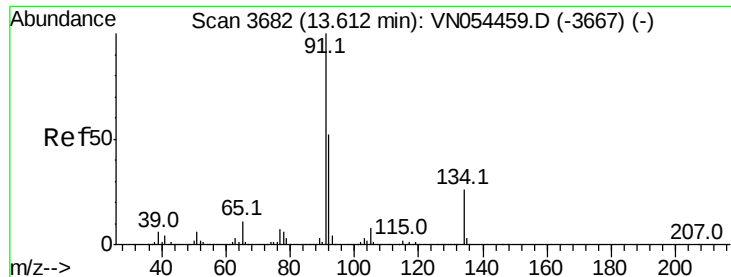
Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Tgt Ion:146 Resp: 171725

Ion	Ratio	Lower	Upper
146	100		
111	39.5	18.1	54.1
148	63.9	32.0	96.0

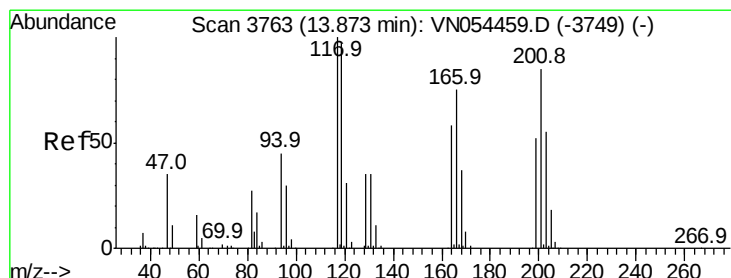
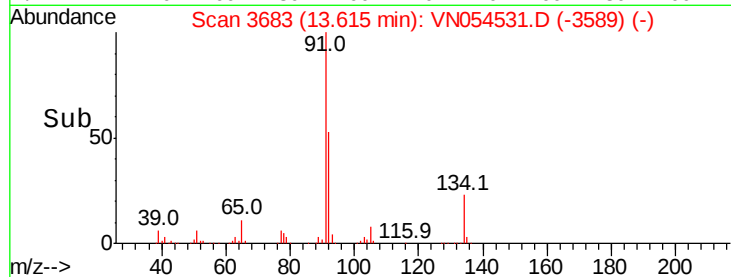
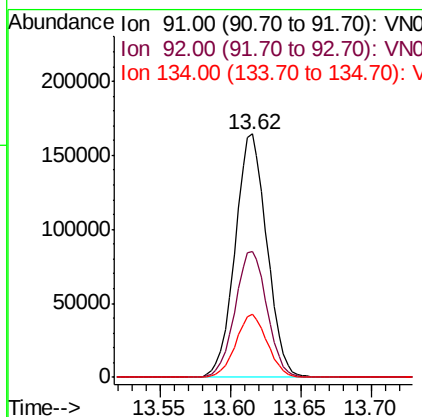
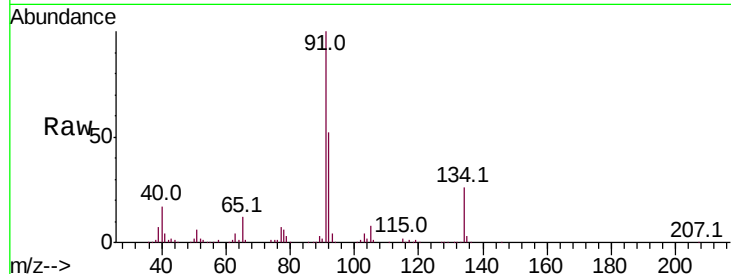




#89
n-Butylbenzene
Concen: 19.442 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

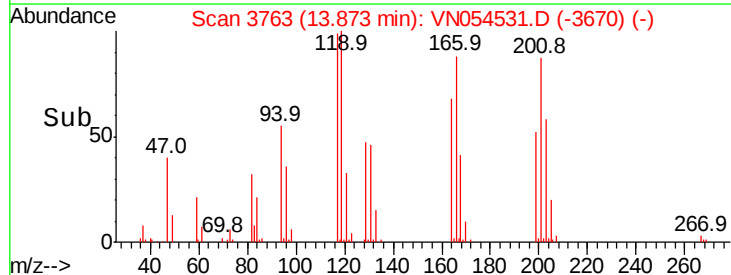
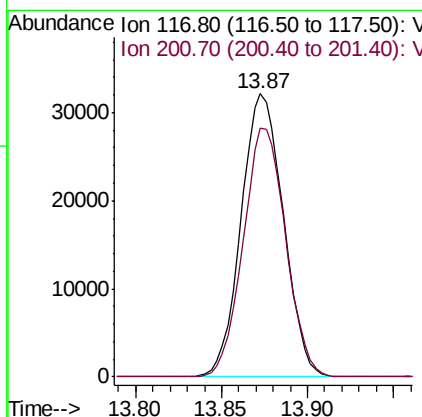
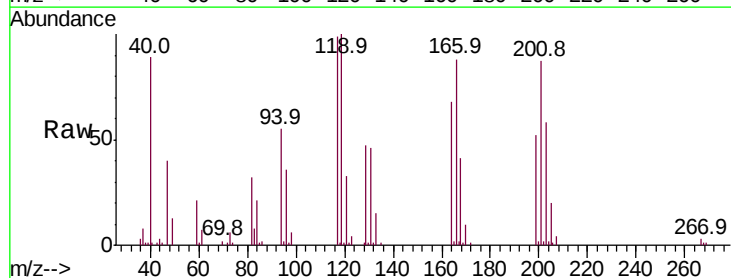
Instrument :
MSVOA_N
ClientSampled :
VN0321WBSD02

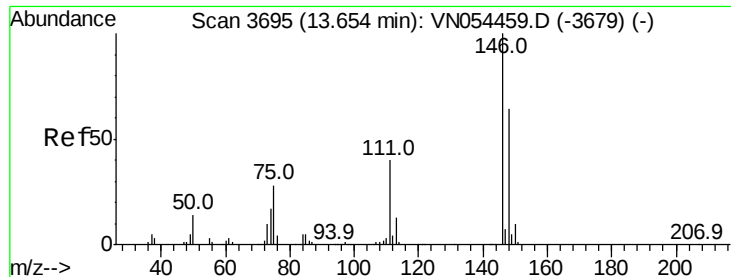
Tot Ion: 91 Resp: 259579
Ion Ratio Lower Upper
91 100
92 52.0 26.2 78.6
134 25.6 14.3 42.9



#90
Hexachloroethane
Concen: 20.721 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054531.D
Acq: 22 Mar 2019 1:20

Tgt Ion: 117 Resp: 54919
Ion Ratio Lower Upper
117 100
201 88.3 48.1 144.4





#91

1,2-Dichlorobenzene

Concen: 20.944 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleID :

VN0321WBSD02

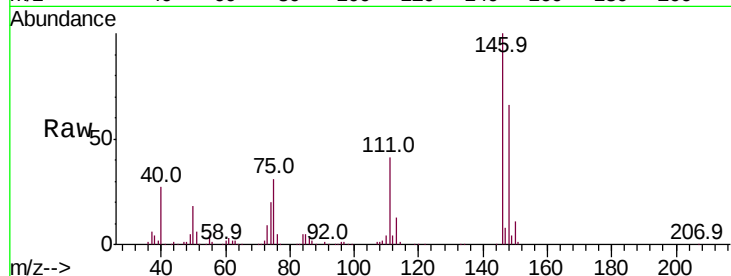
Tot Ion:146 Resp: 178930

Ion Ratio Lower Upper

146 100

111 40.8 19.1 57.3

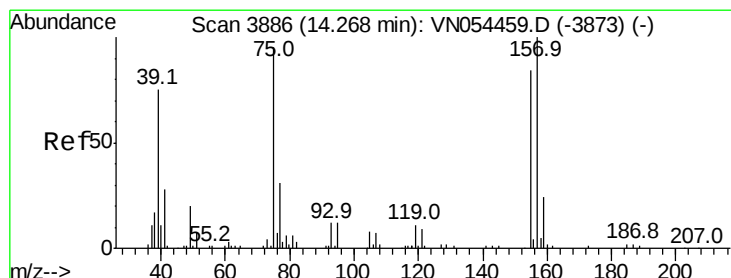
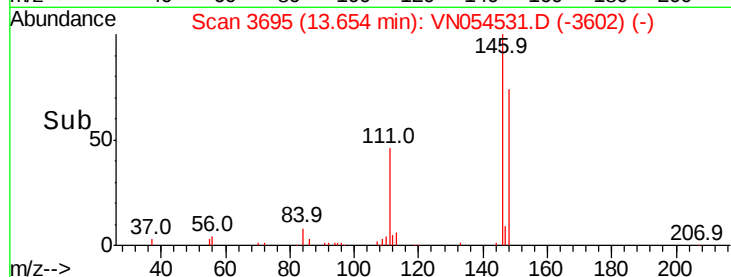
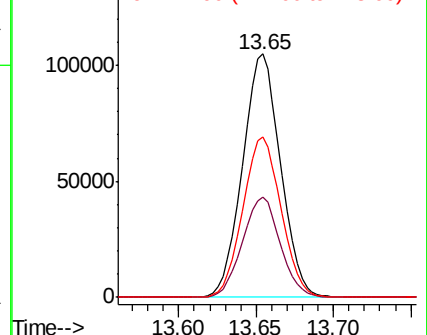
148 66.0 32.4 97.0



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 23.462 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

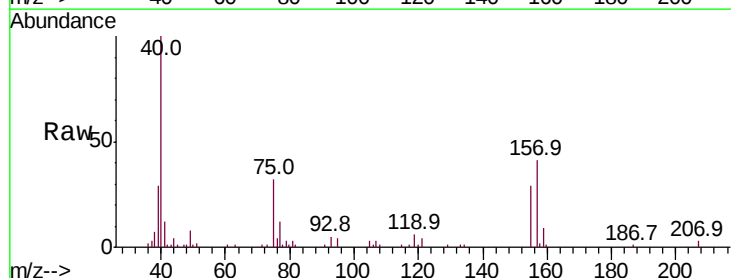
Tgt Ion: 75 Resp: 16859

Ion Ratio Lower Upper

75 100

155 88.6 50.1 150.3

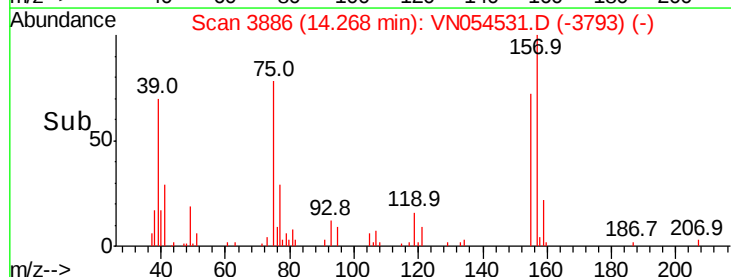
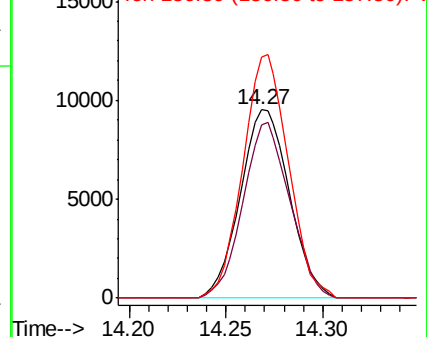
157 119.6 63.1 189.3

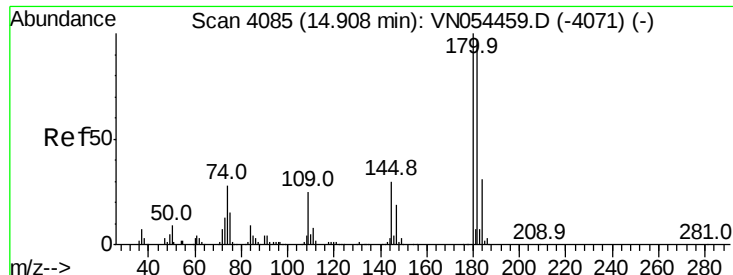


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

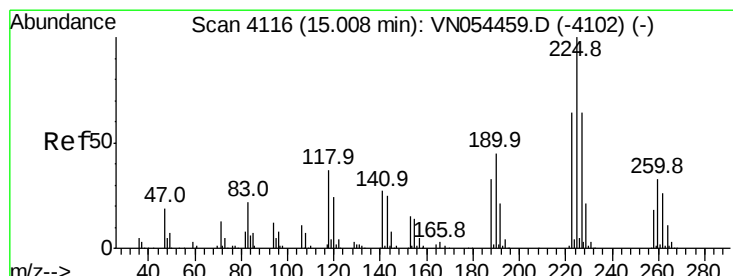
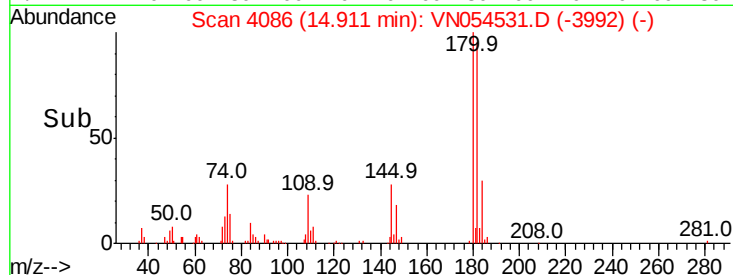
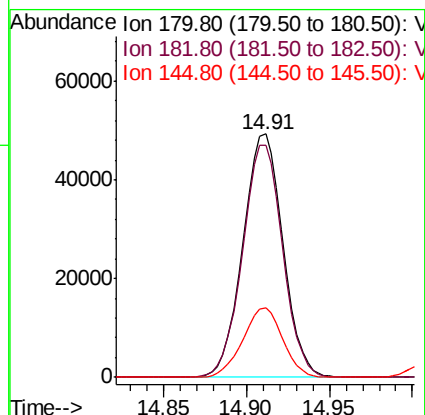
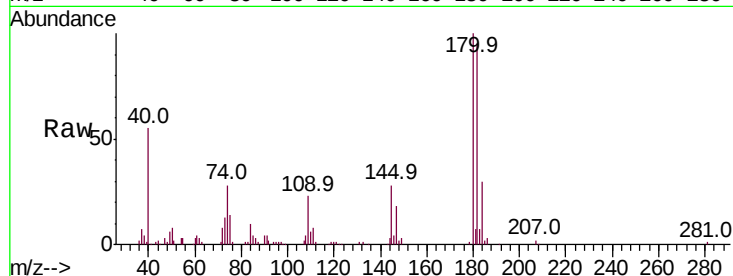




#93
 1,2,4-Trichlorobenzene
 Concen: 19.427 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

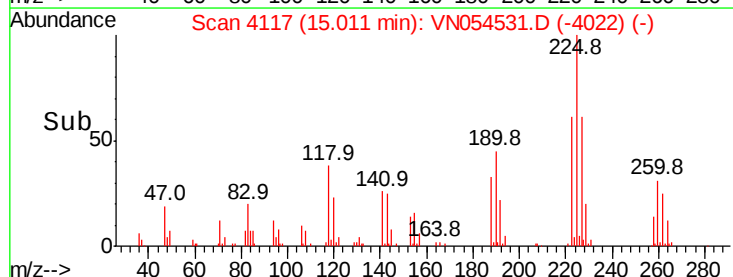
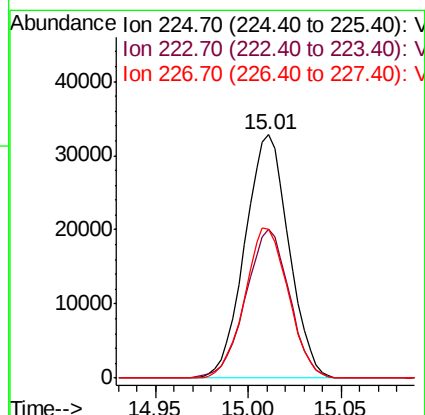
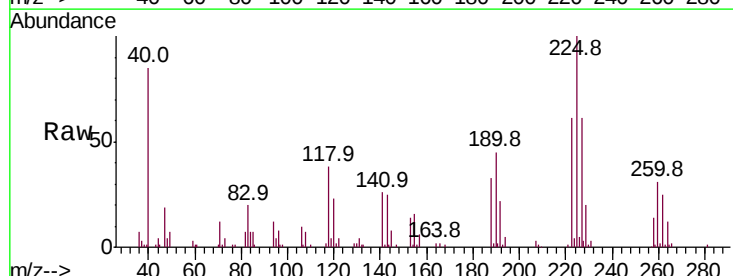
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0321WBSD02

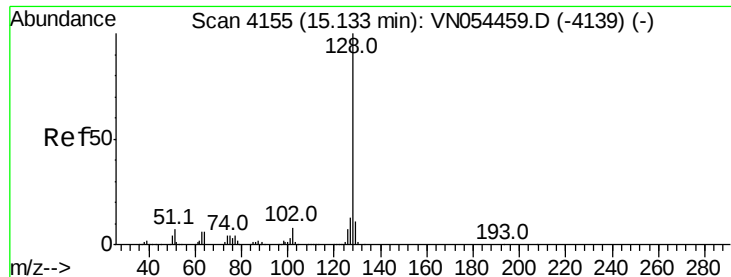
Tot Ion:180 Resp: 82739
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.0 144.2
 145 28.4 14.2 42.8



#94
 Hexachlorobutadiene
 Concen: 21.074 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054531.D
 Acq: 22 Mar 2019 1:20

Tgt Ion:225 Resp: 53858
 Ion Ratio Lower Upper
 225 100
 223 60.8 31.1 93.5
 227 61.4 31.9 95.9





#95

Naphthalene

Concen: 21.395 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

Instrument :

MSVOA_N

ClientSampleId :

VN0321WBSD02

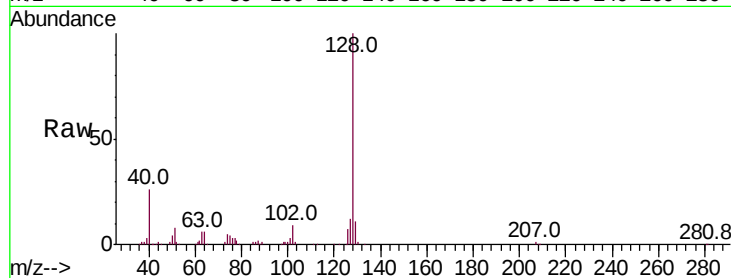
Tot Ion:128 Resp: 203243

Ion Ratio Lower Upper

128 100

127 12.6 10.1 15.1

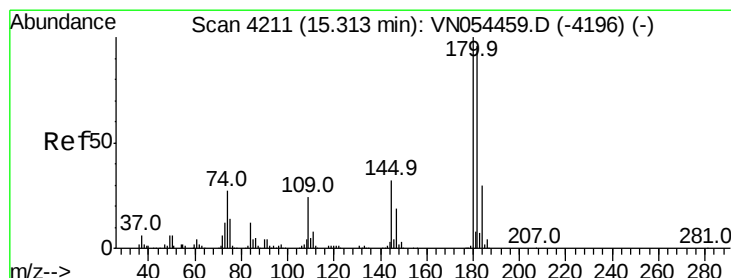
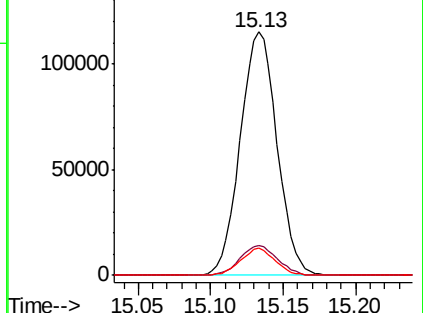
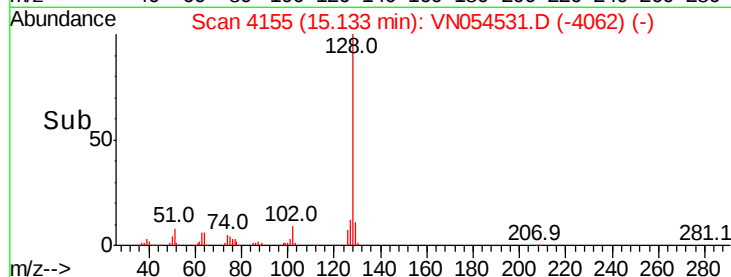
129 10.5 8.7 13.1



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



#96

1,2,3-Trichlorobenzene

Concen: 20.681 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN054531.D

Acq: 22 Mar 2019 1:20

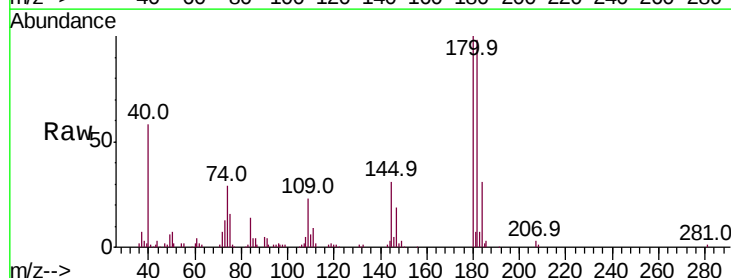
Tgt Ion:180 Resp: 87662

Ion Ratio Lower Upper

180 100

182 96.5 47.5 142.6

145 30.7 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

