

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054358.D
 Acq On : 17 Mar 2019 1:53
 Operator : JC/SP
 Sample : VN0316WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

Manual Integrations
 APPROVED

MMDadoda
 3/18/2019 11:59:28 AM

Quant Time: Mar 18 08:02:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1204996	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1882123	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1612740	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	717740	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	688709	53.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.64%	
35) Dibromofluoromethane	7.59	113	625711	51.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.10%	
50) Toluene-d8	10.09	98	2239619	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
62) 4-Bromofluorobenzene	12.40	95	743401	47.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.78%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	238174	20.855	ug/l	99
3) Chloromethane	2.06	50	230122	20.744	ug/l	99
4) Vinyl Chloride	2.19	62	261435	20.619	ug/l	100
5) Bromomethane	2.57	94	177131	20.171	ug/l	97
6) Chloroethane	2.71	64	156146	20.354	ug/l	98
7) Trichlorofluoromethane	3.02	101	336221	19.945	ug/l	99
8) Diethyl Ether	3.41	74	176567	22.984	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.75	101	268051	21.219	ug/l	99
10) Methyl Iodide	3.94	142	409993	23.666	ug/l	99
11) Tert butyl alcohol	4.81	59	84557	96.384	ug/l	98
12) 1,1-Dichloroethene	3.73	96	269284	21.511	ug/l	98
13) Acrolein	3.61	56	70849	85.225	ug/l	98
14) Allyl chloride	4.31	41	318507	19.830	ug/l	99
15) Acrylonitrile	5.00	53	423304	117.465	ug/l	99
16) Acetone	3.82	43	313370	85.524	ug/l	100
17) Carbon Disulfide	4.04	76	540638	17.228	ug/l	100
18) Methyl Acetate	4.33	43	196942	26.567	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	698921	22.524	ug/l	98
20) Methylene Chloride	4.54	84	269324	22.385	ug/l	97
21) trans-1,2-Dichloroethene	5.03	96	248246	20.697	ug/l	95
22) Diisopropyl ether	5.96	45	714429	22.287	ug/l	99
23) Vinyl Acetate	5.90	43	2469331	104.476	ug/l	100
24) 1,1-Dichloroethane	5.85	63	457668	22.235	ug/l	100
25) 2-Butanone	6.85	43	477802	111.103	ug/l	99
26) 2,2-Dichloropropane	6.82	77	234884	12.977	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	299259	22.364	ug/l	96
28) Bromochloromethane	7.19	49	172489	20.499	ug/l	98
29) Tetrahydrofuran	7.22	42	320766	116.006	ug/l	100
30) Chloroform	7.37	83	485658	22.612	ug/l	98
31) Cyclohexane	7.65	56	399653	20.033	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	403927	20.824	ug/l	98
36) 1,1-Dichloropropene	7.79	75	340547	19.648	ug/l	98
37) Ethyl Acetate	6.94	43	210650	21.151	ug/l	98
38) Carbon Tetrachloride	7.77	117	348761	19.187	ug/l	98

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Manual Integrations
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MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	398344	18.679	ug/l	97
40) Benzene	8.04	78	1062490	21.421	ug/l	99
41) Methacrylonitrile	7.18	41	104194	18.323	ug/l	87
42) 1,2-Dichloroethane	8.13	62	359034	21.441	ug/l	100
43) Isopropyl Acetate	8.17	43	350506	20.051	ug/l	98
44) Trichloroethene	8.83	130	317439	20.602	ug/l	99
45) 1,2-Dichloropropane	9.12	63	269511	21.883	ug/l	99
46) Dibromomethane	9.21	93	179728	21.598	ug/l	99
47) Bromodichloromethane	9.40	83	346090	20.746	ug/l	96
48) Methyl methacrylate	9.20	41	191824	21.623	ug/l	99
49) 1,4-Dioxane	9.20	88	55191	439.823	ug/l	100
51) 4-Methyl-2-Pentanone	9.99	43	1039569	112.372	ug/l	99
52) Toluene	10.16	92	659121	20.958	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	287615	16.461	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	356772	18.352	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	254449	22.158	ug/l	99
56) Ethyl methacrylate	10.43	69	285847	20.876	ug/l	98
57) 1,3-Dichloropropane	10.71	76	412010	21.942	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	525624	99.356	ug/l	99
59) 2-Hexanone	10.75	43	648184	105.299	ug/l	100
60) Dibromochloromethane	10.90	129	255133	19.739	ug/l	99
61) 1,2-Dibromoethane	11.01	107	246250	21.102	ug/l	99
64) Tetrachloroethene	10.63	164	332315	21.312	ug/l	99
65) Chlorobenzene	11.43	112	755160	21.325	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	271351	21.094	ug/l	99
67) Ethyl Benzene	11.51	91	1230640	20.965	ug/l	100
68) m/p-Xylenes	11.62	106	968417	42.210	ug/l	99
69) o-Xylene	11.95	106	483200	21.605	ug/l	99
70) Styrene	11.96	104	739595	21.085	ug/l	100
71) Bromoform	12.13	173	161455	18.041	ug/l #	99
73) Isopropylbenzene	12.25	105	1261500	21.968	ug/l	100
74) N-amyl acetate	12.07	43	276749	21.712	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	291311	23.811	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	257553m	24.402	ug/l	
77) Bromobenzene	12.53	156	334552	22.017	ug/l	97
78) n-propylbenzene	12.59	91	1327435	21.304	ug/l	100
79) 2-Chlorotoluene	12.67	91	816892	21.805	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1018231	21.318	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	41899	13.570	ug/l #	83
82) 4-Chlorotoluene	12.77	91	797432	21.316	ug/l	99
83) tert-Butylbenzene	12.99	119	955128	21.725	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1014573	21.652	ug/l	99
85) sec-Butylbenzene	13.17	105	1190841	20.886	ug/l	100
86) p-Isopropyltoluene	13.29	119	1020457	20.401	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	544810	21.278	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	529483	21.051	ug/l	99
89) n-Butylbenzene	13.62	91	711530	18.722	ug/l	99
90) Hexachloroethane	13.88	117	151701	18.316	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	558792	22.324	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	38030	20.088	ug/l	96

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ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
VN0316WBSD02

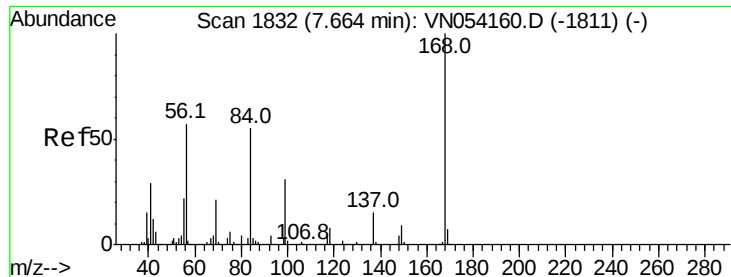
Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:59:28 AM

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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	254898	18.535	ug/l	99
94) Hexachlorobutadiene	15.01	225	172922	18.137	ug/l	99
95) Naphthalene	15.13	128	566747	20.224	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	274894	20.670	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleID :

VN0316WBSD02

Tot Ion:168 Resp: 1204996

Ion Ratio Lower Upper

168 100

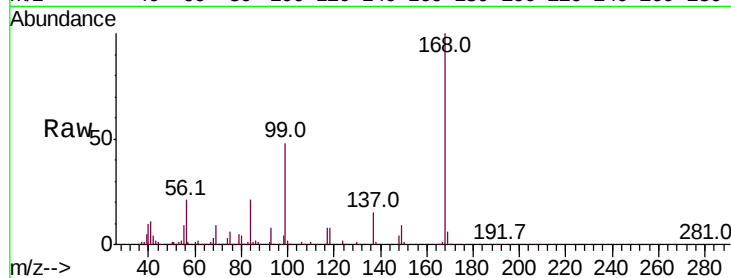
99 47.6 37.1 55.7

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

500000

400000

300000

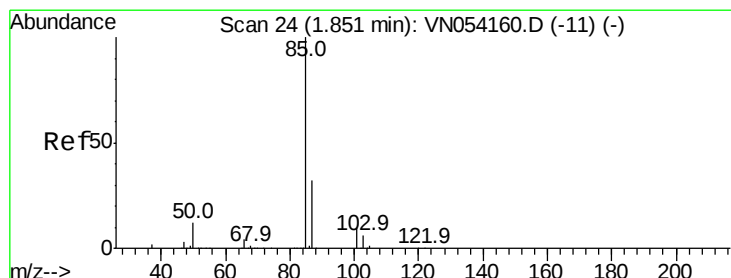
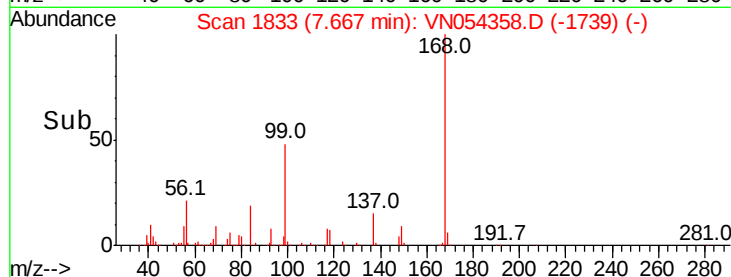
200000

100000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 20.855 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN054358.D

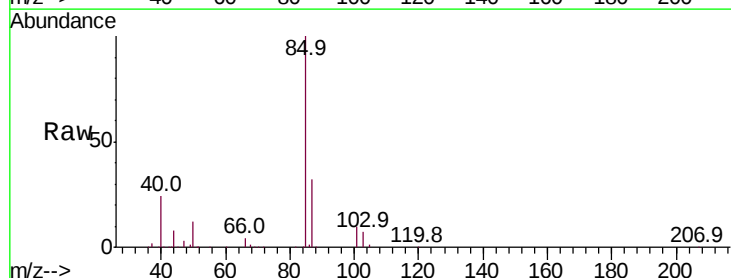
Acq: 17 Mar 2019 1:53

Tgt Ion: 85 Resp: 238174

Ion Ratio Lower Upper

85 100

87 32.4 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

200000

150000

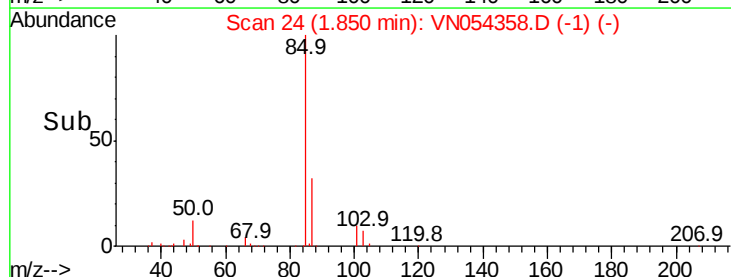
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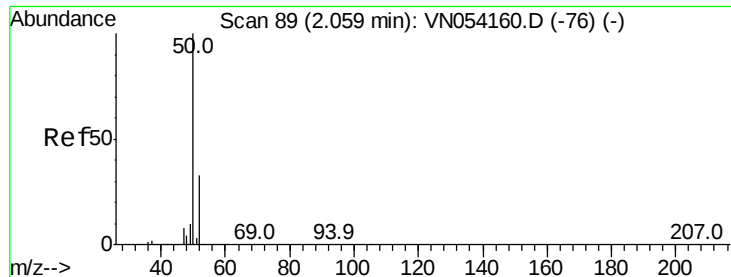
50000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 20.744 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 50 Resp: 230122

Ion Ratio Lower Upper

50 100

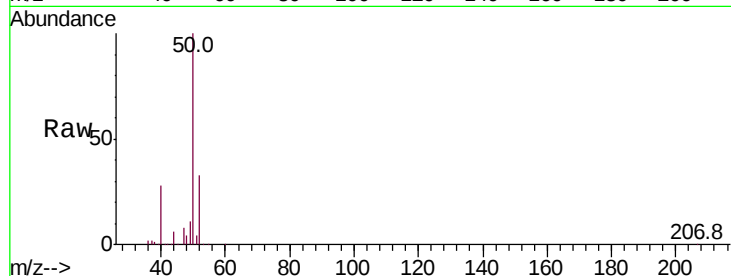
52 33.4 26.4 39.6

Manual Integrations

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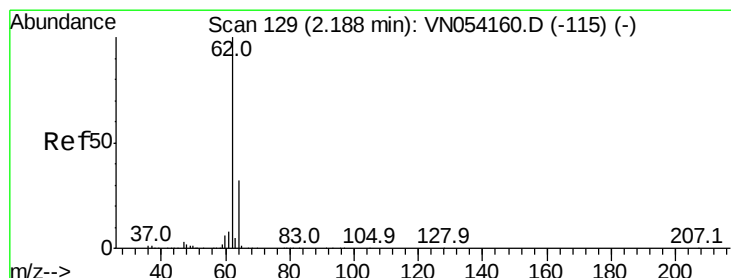
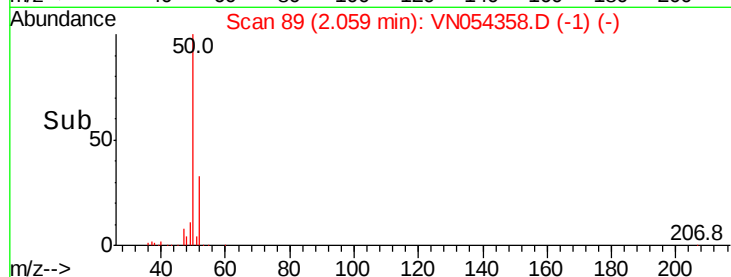
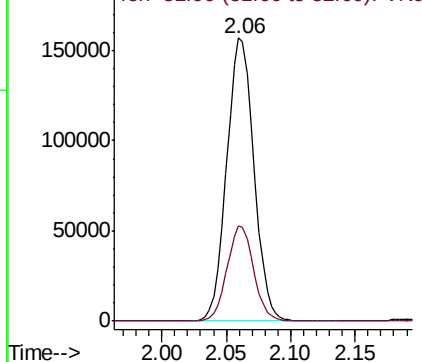
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 20.619 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054358.D

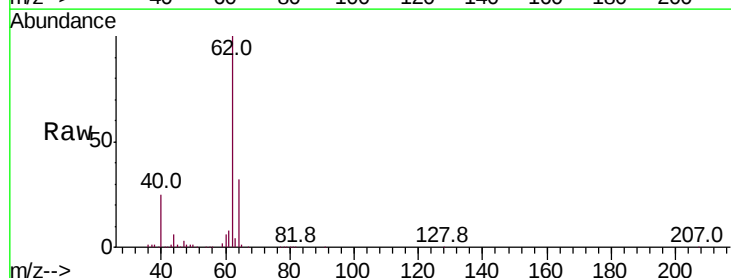
Acq: 17 Mar 2019 1:53

Tgt Ion: 62 Resp: 261435

Ion Ratio Lower Upper

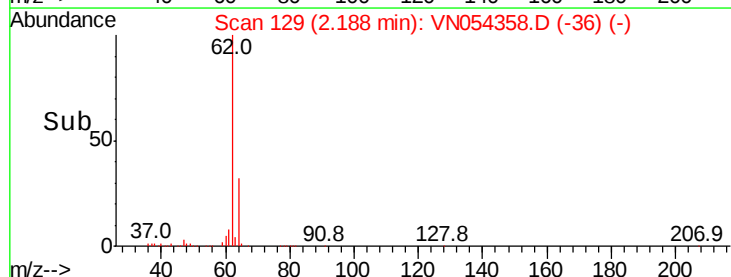
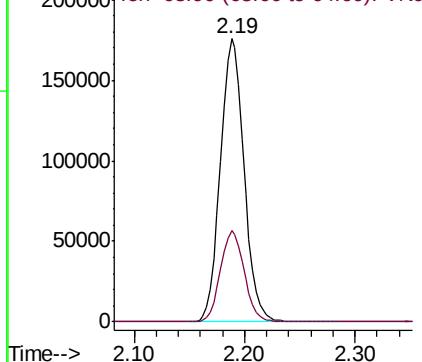
62 100

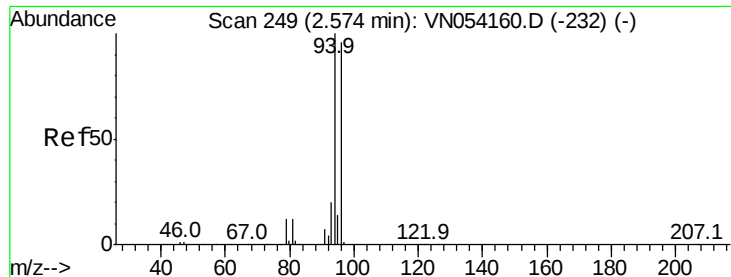
64 32.1 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.171 ug/l

RT: 2.57 min Scan# 249

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 94 Resp: 177131

Ion Ratio Lower Upper

94 100

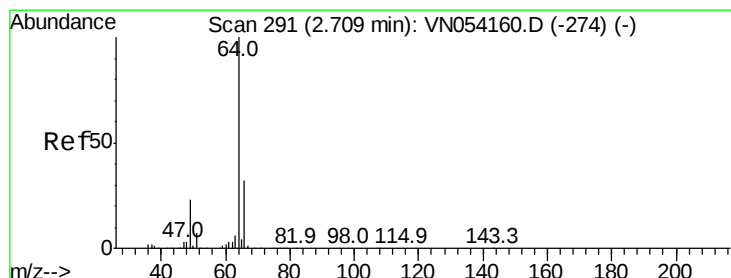
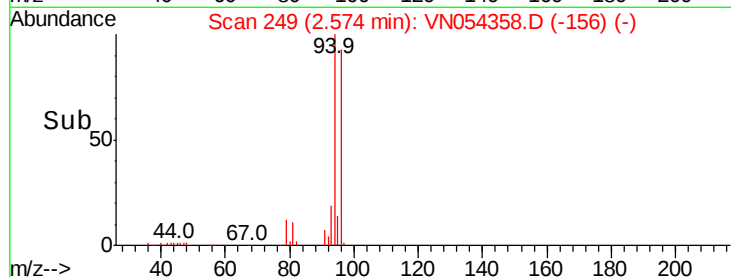
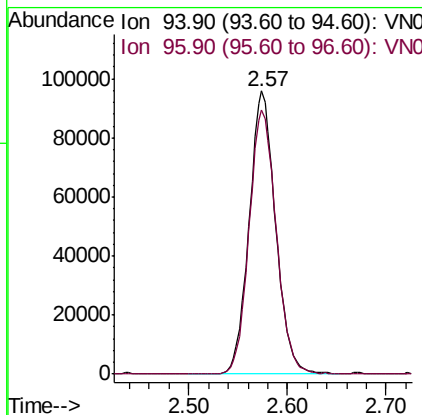
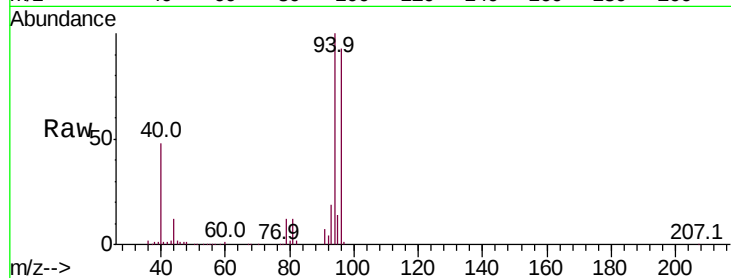
96 93.2 77.0 115.4

Manual Integrations

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#6

Chloroethane

Concen: 20.354 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054358.D

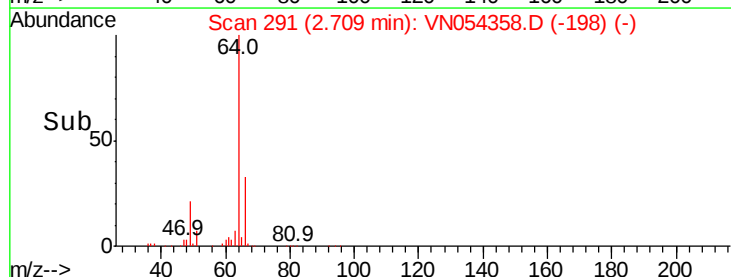
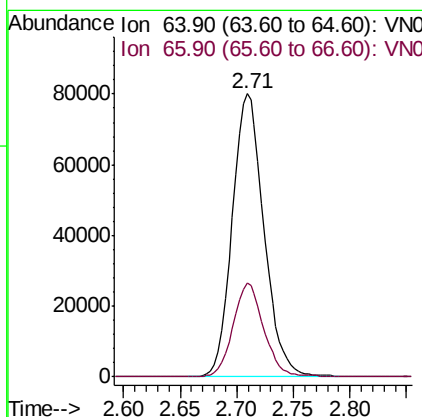
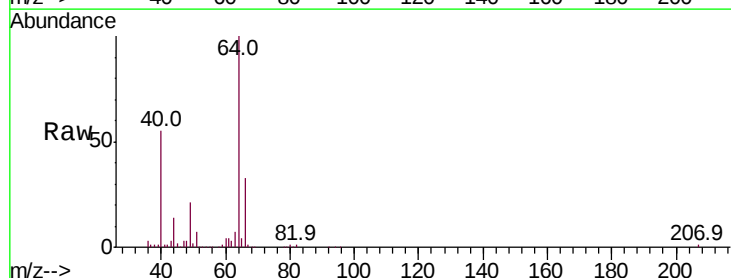
Acq: 17 Mar 2019 1:53

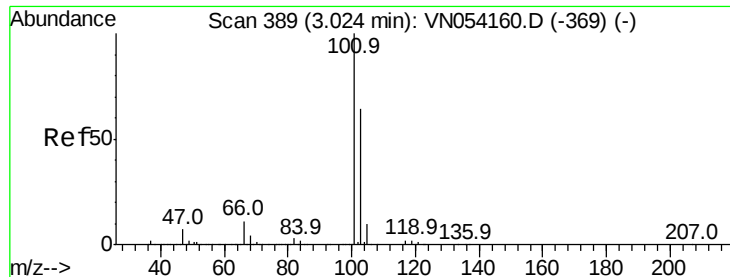
Tgt Ion: 64 Resp: 156146

Ion Ratio Lower Upper

64 100

66 33.0 25.7 38.5





#7

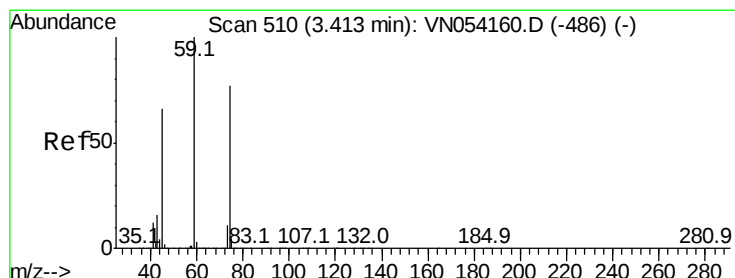
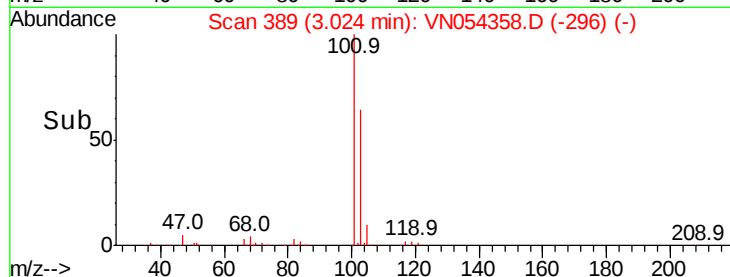
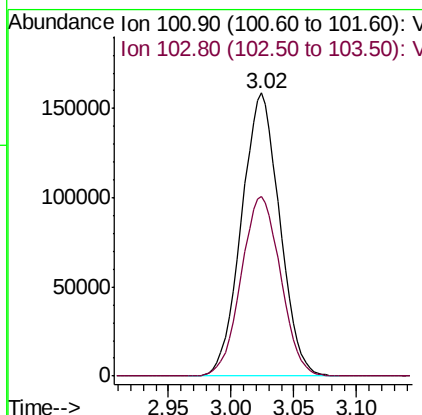
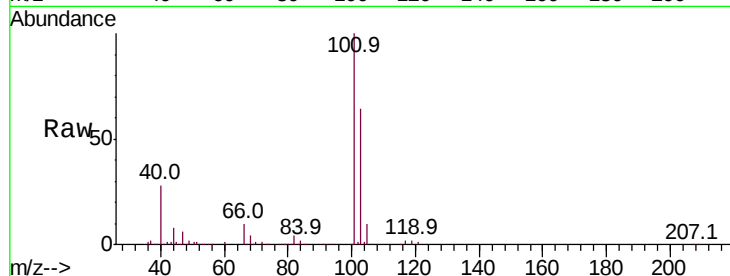
Trichlorofluoromethane
 Concen: 19.945 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
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 VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.6	51.4	77.2

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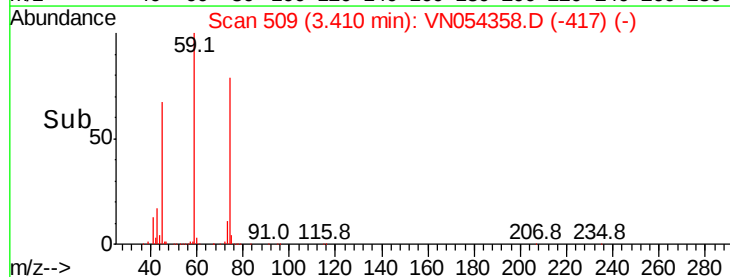
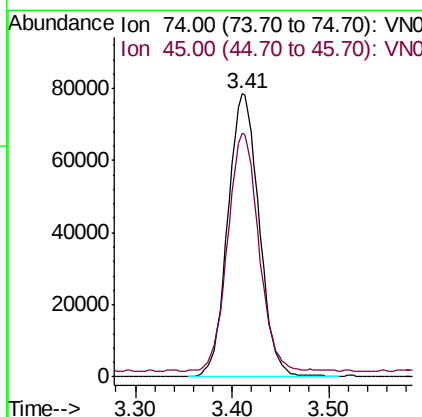
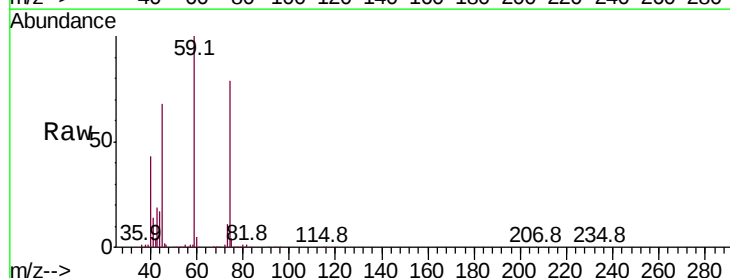
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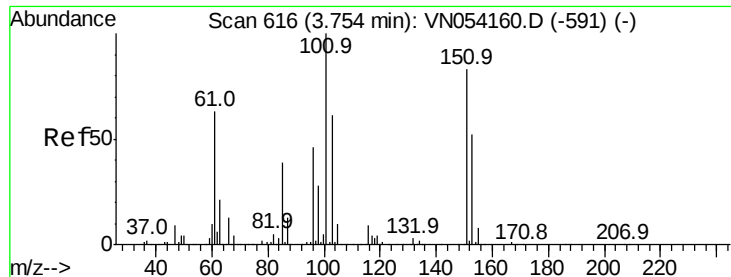


#8

Diethyl Ether
 Concen: 22.984 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	83.5	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.219 ug/l

RT: 3.75 min Scan# 616

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

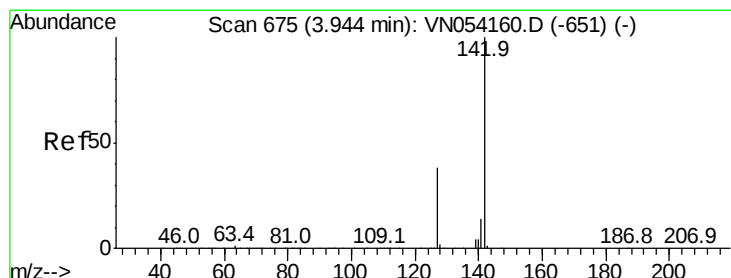
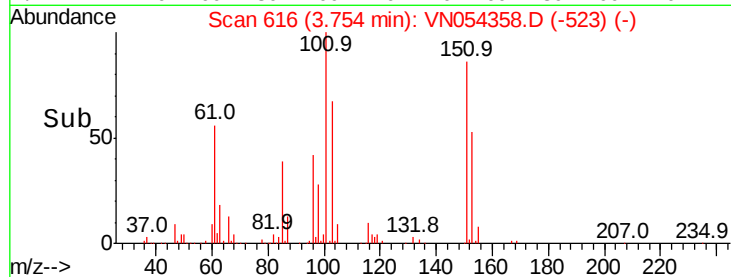
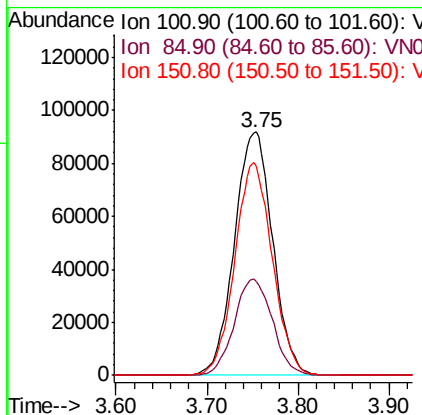
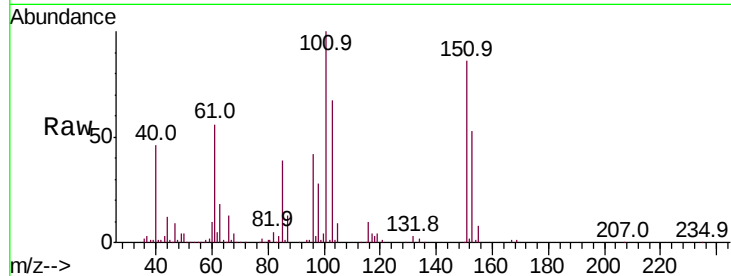
ClientSampleId :

VN0316WBSD02

Tot Ion:	101	Resp:	268051
Ion Ratio	Lower	Upper	
101	100		
85	39.4	32.4	48.6
151	85.7	68.2	102.2

Manual Integrations
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#10

Methyl Iodide

Concen: 23.666 ug/l

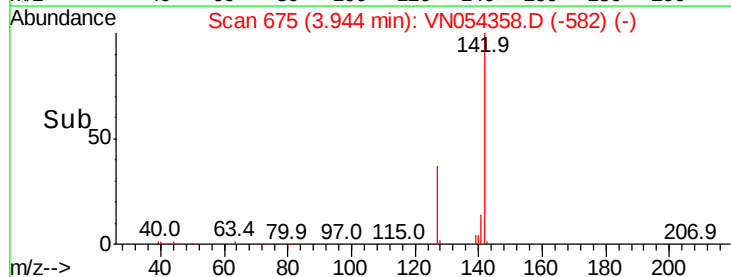
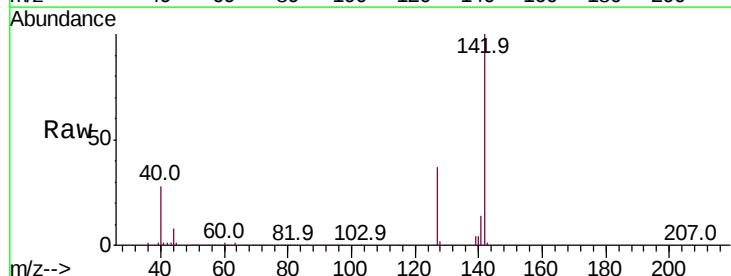
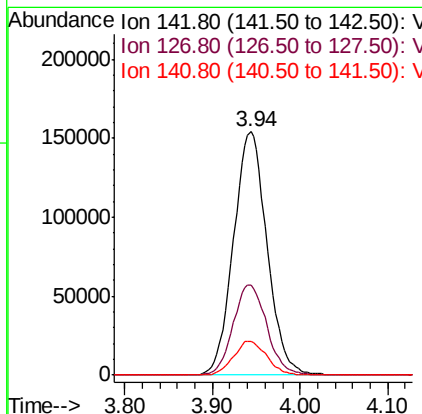
RT: 3.94 min Scan# 675

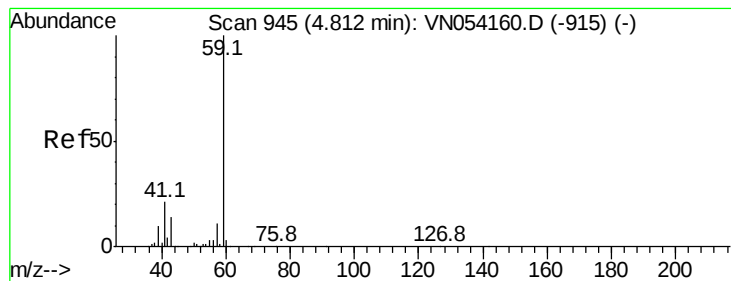
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	142	Resp:	409993
Ion Ratio	Lower	Upper	
142	100		
127	37.4	30.3	45.5
141	13.9	11.2	16.8





#11

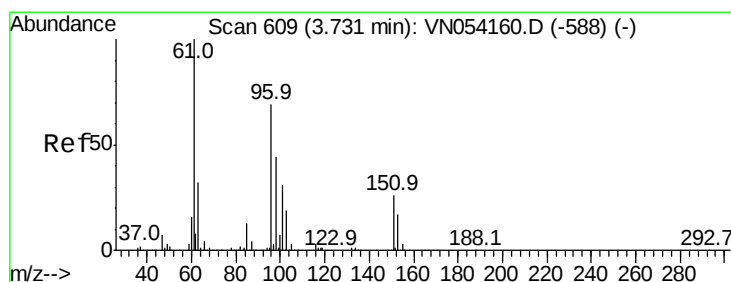
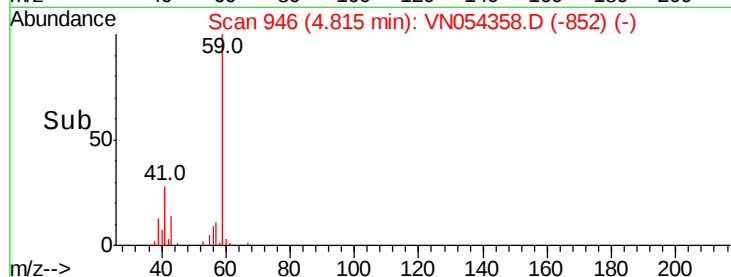
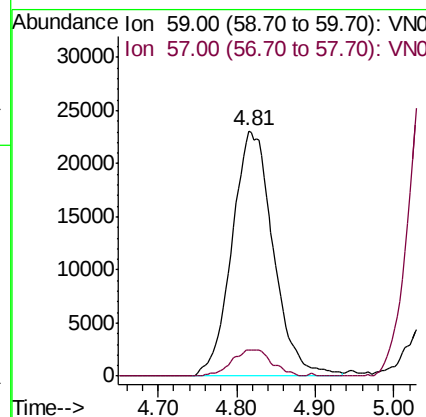
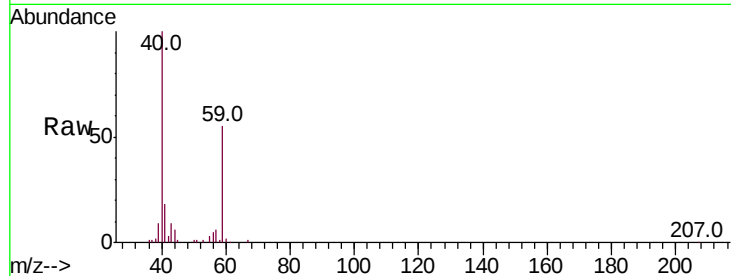
Tert butyl alcohol
 Concen: 96.384 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	9.0	13.6

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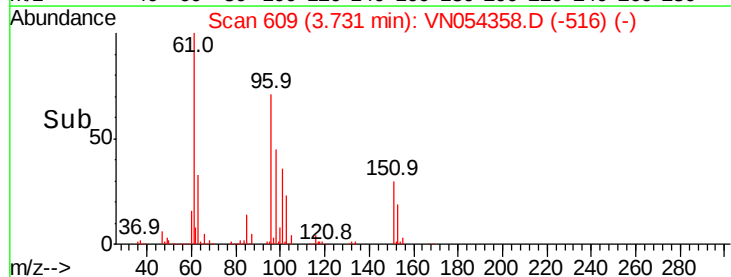
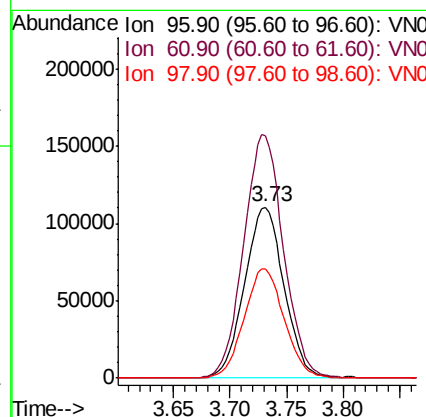
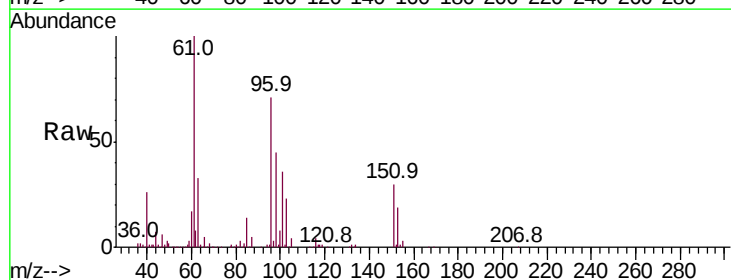
MMDadoda
 3/18/2019 11:59:28 AM

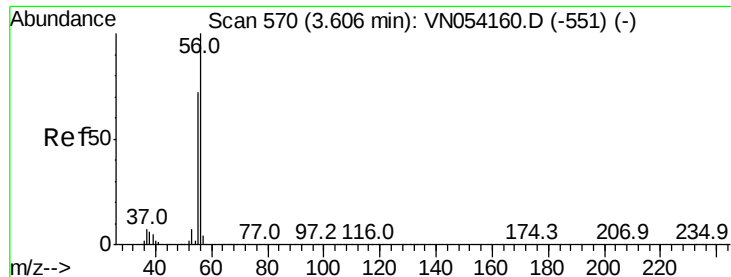


#12

1,1-Dichloroethene
 Concen: 21.511 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.4	116.5	174.7
98	63.6	51.0	76.4





#13

Acrolein

Concen: 85.225 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 56 Resp: 70849

Ion Ratio Lower Upper

56 100

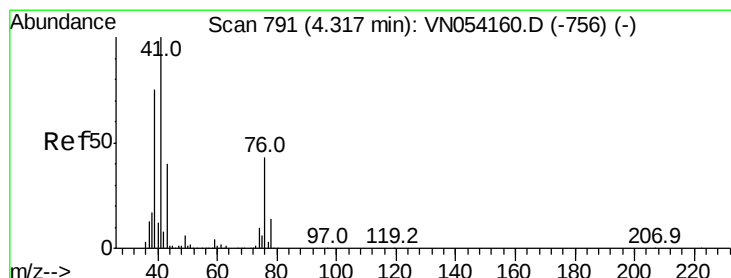
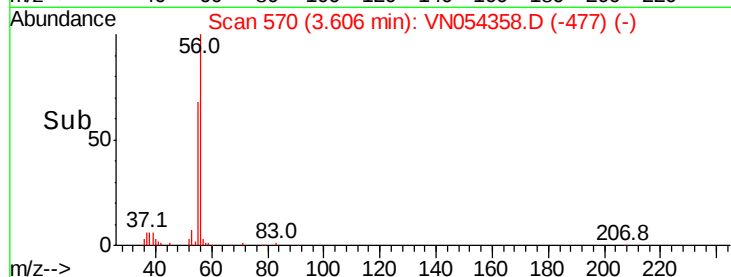
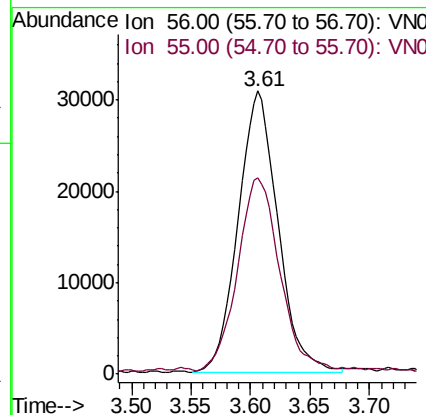
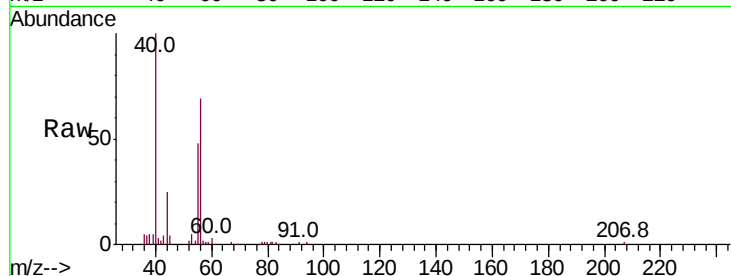
55 72.5 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 19.830 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

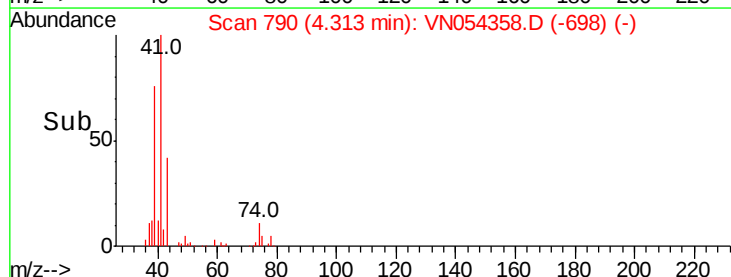
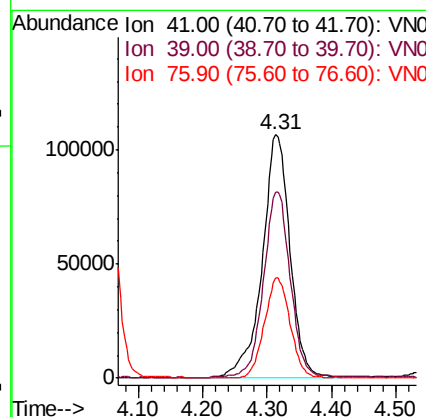
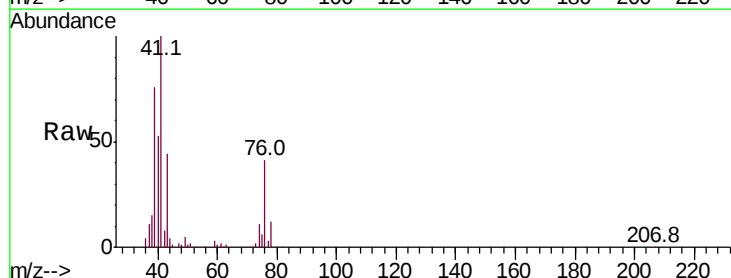
Tgt Ion: 41 Resp: 318507

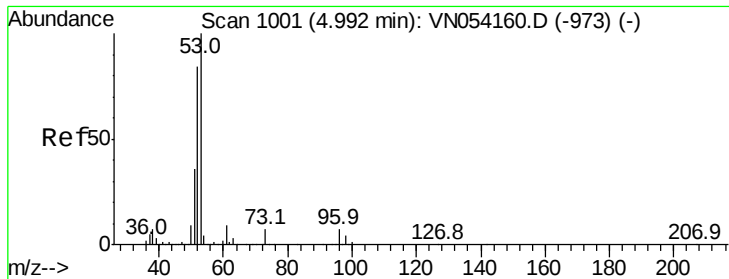
Ion Ratio Lower Upper

41 100

39 73.0 58.2 87.4

76 38.3 31.7 47.5





#15

Acrylonitrile

Concen: 117.465 ug/l

RT: 5.00 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

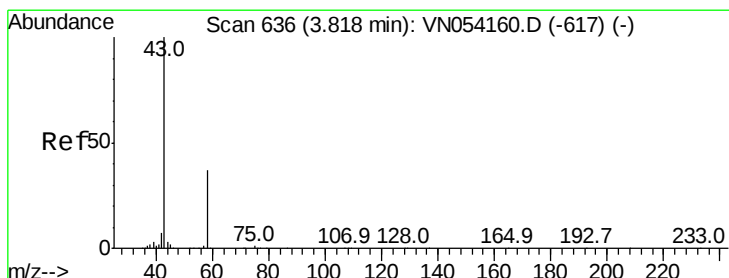
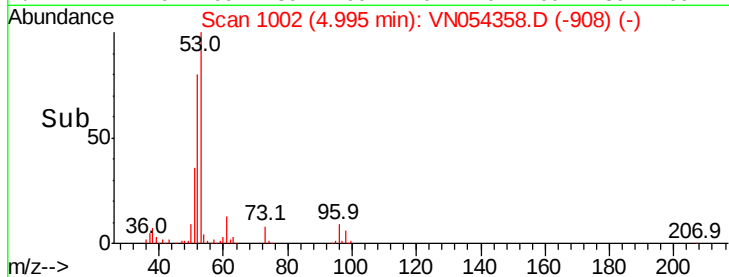
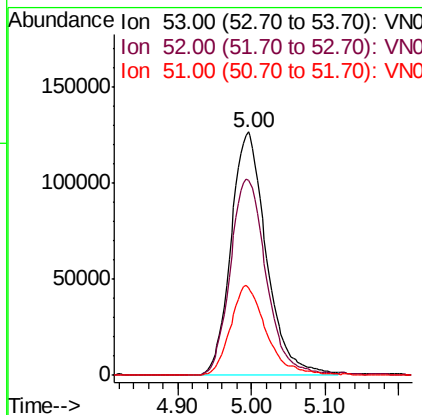
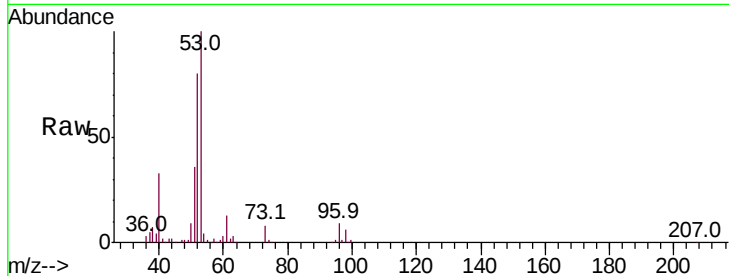
ClientSampleId :

VN0316WBSD02

Tot Ion:	53	Resp:	423304
Ion	Ratio	Lower	Upper
53	100		
52	81.9	66.4	99.6
51	37.1	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 85.524 ug/l

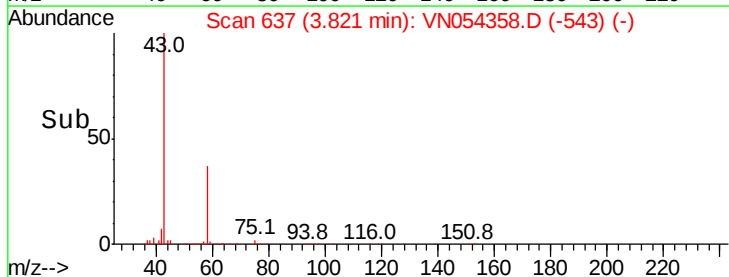
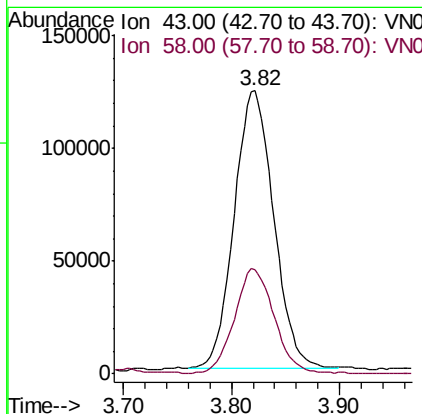
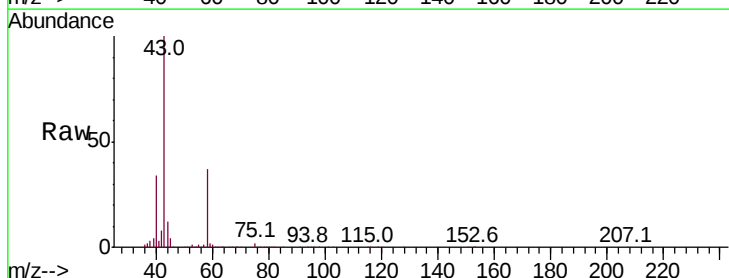
RT: 3.82 min Scan# 637

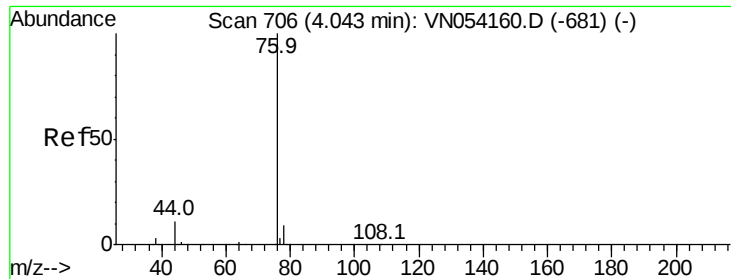
Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	43	Resp:	313370
Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.9	44.9





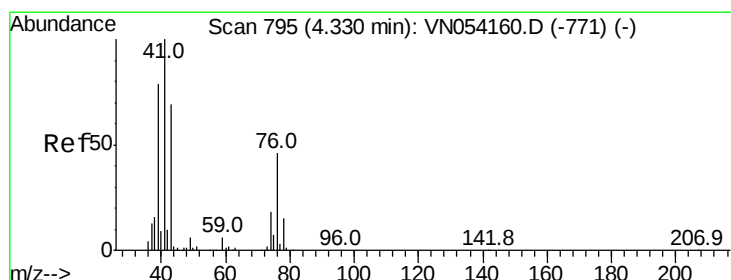
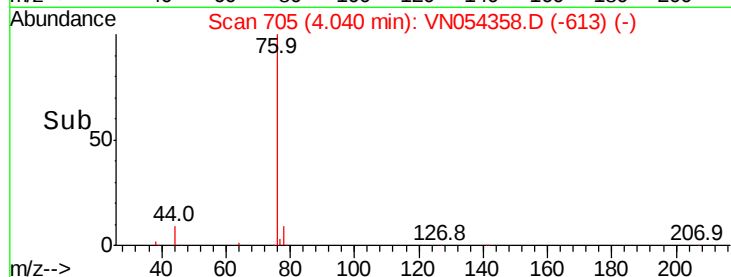
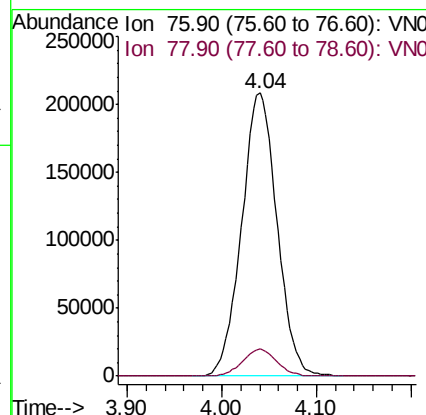
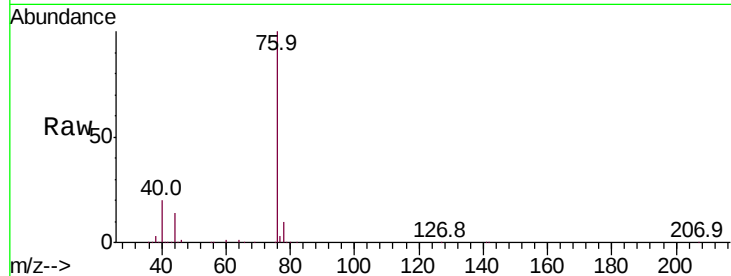
#17
Carbon Disulfide
Concen: 17.228 ug/l
RT: 4.04 min Scan# 705
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.5	11.3

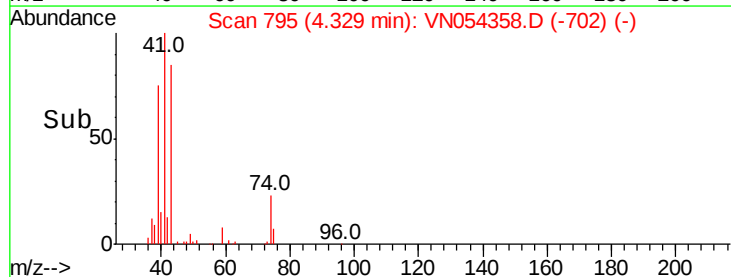
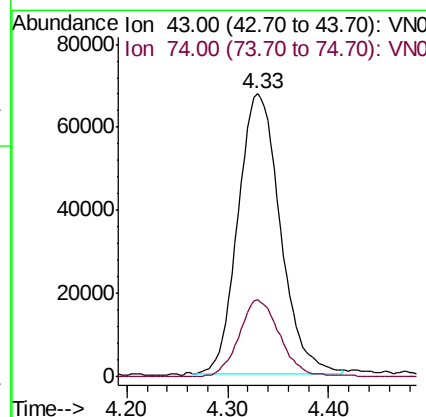
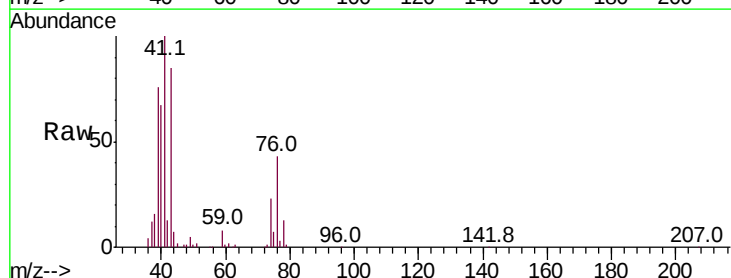
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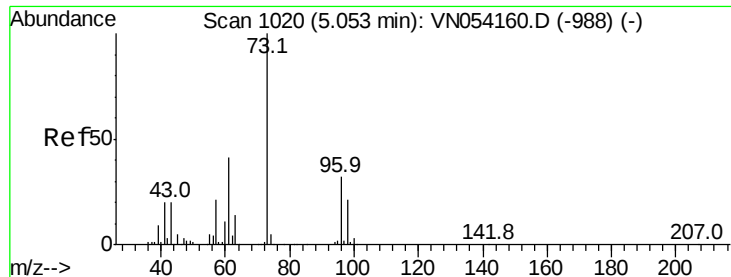
MMDadoda
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#18
Methyl Acetate
Concen: 26.567 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	26.6	20.8	31.2





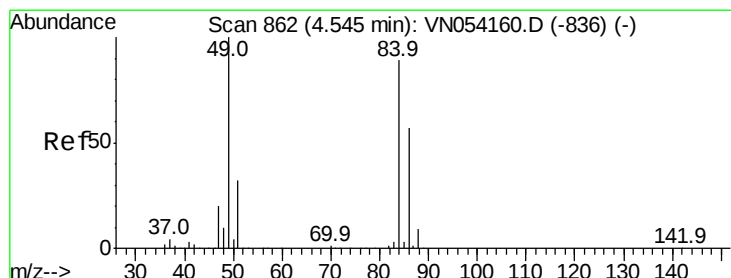
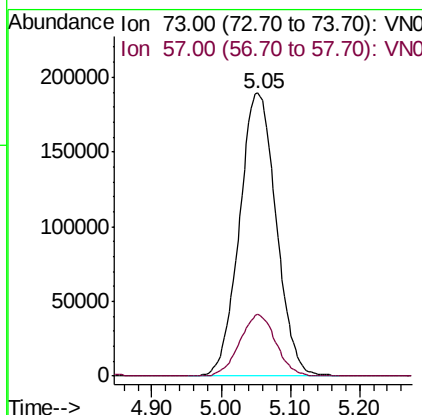
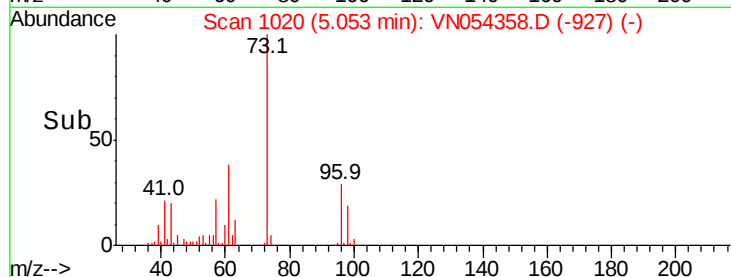
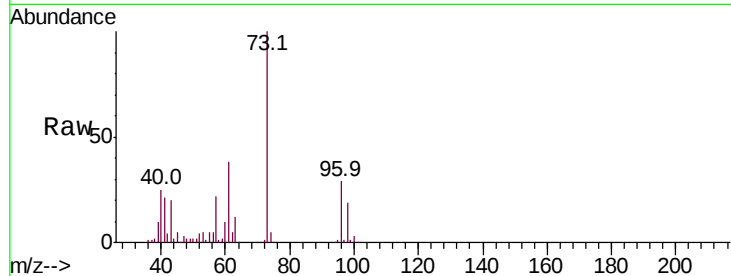
#19
Methvl tert-butvl Ether
Concen: 22.524 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.8	16.8	25.2

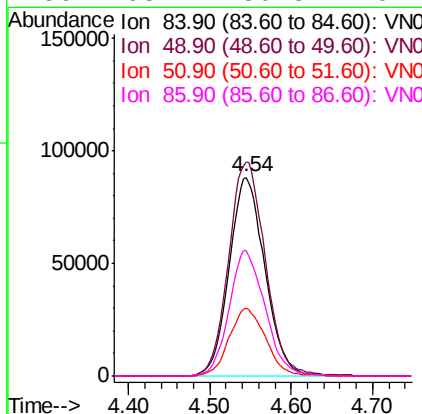
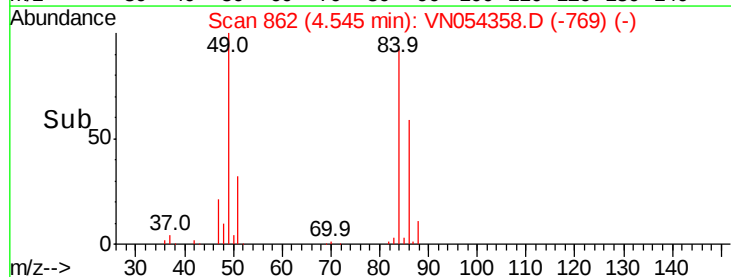
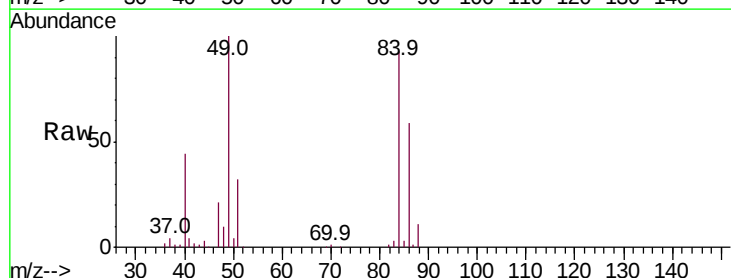
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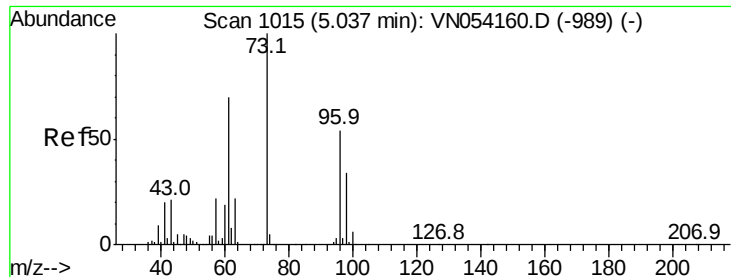
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#20
Methylene Chloride
Concen: 22.385 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
84	100		
49	107.4	89.7	134.5
51	34.4	28.2	42.4
86	63.2	50.8	76.2





#21

trans-1,2-Dichloroethene

Concen: 20.697 ug/l

RT: 5.03 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 96 Resp: 248246

Ion Ratio Lower Upper

96 100

61 133.2 102.8 154.2

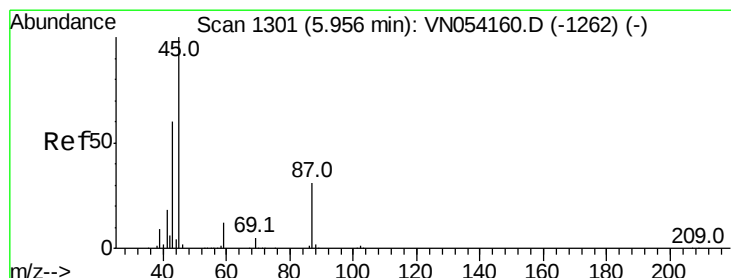
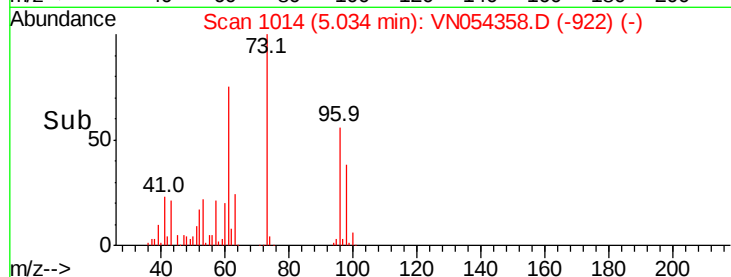
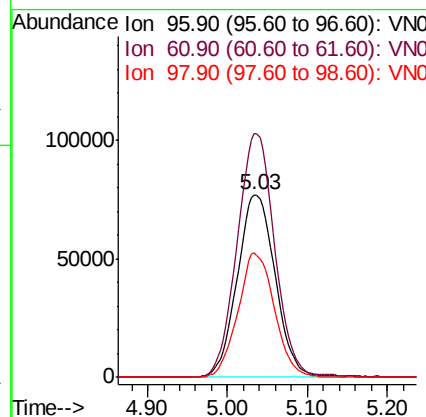
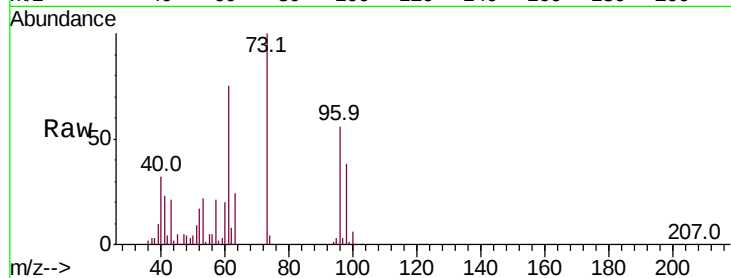
98 68.2 50.0 75.0

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#22

Diisopropyl ether

Concen: 22.287 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion: 45 Resp: 714429

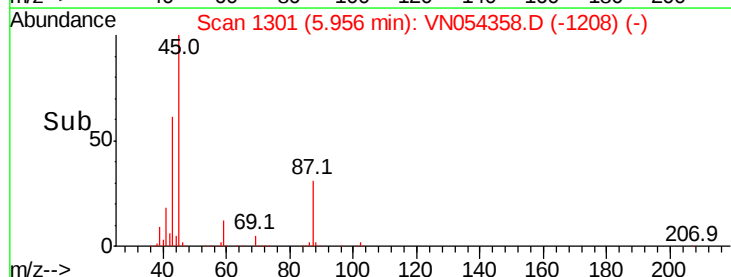
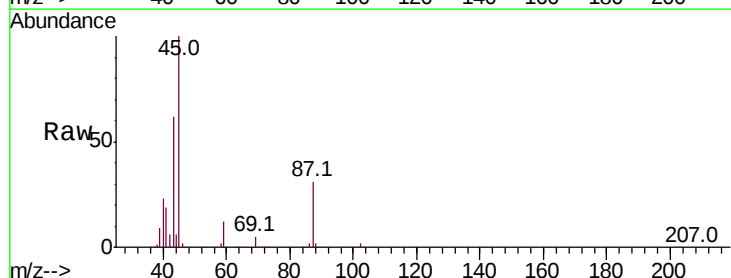
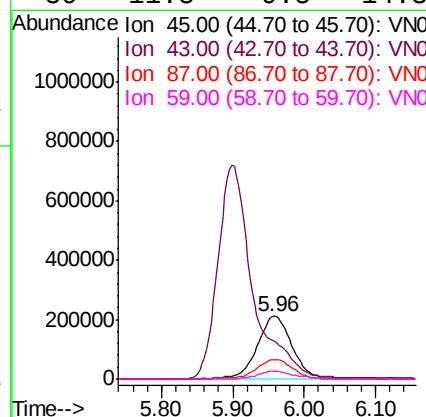
Ion Ratio Lower Upper

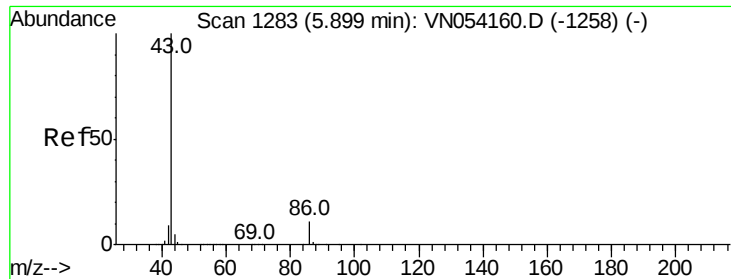
45 100

43 59.0 48.2 72.2

87 30.6 24.9 37.3

59 11.8 9.5 14.3





#23

Vinyl Acetate

Concen: 104.476 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 43 Resp: 2469331

Ion Ratio Lower Upper

43 100

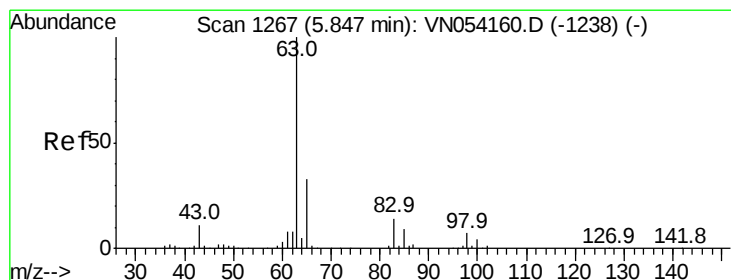
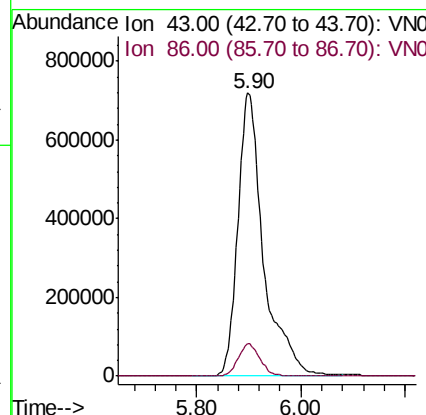
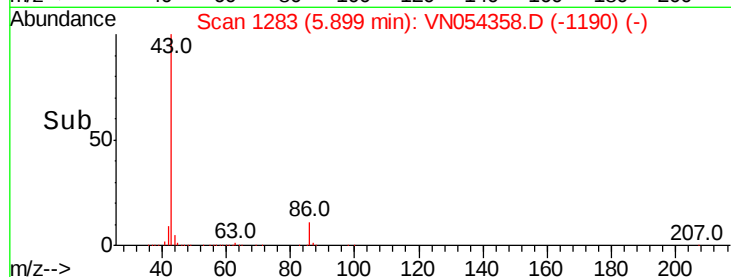
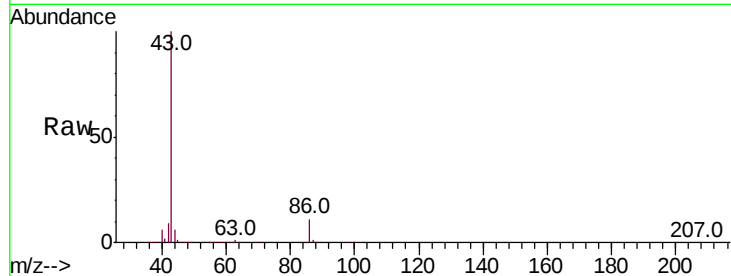
86 11.4 9.1 13.7

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#24

1,1-Dichloroethane

Concen: 22.235 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

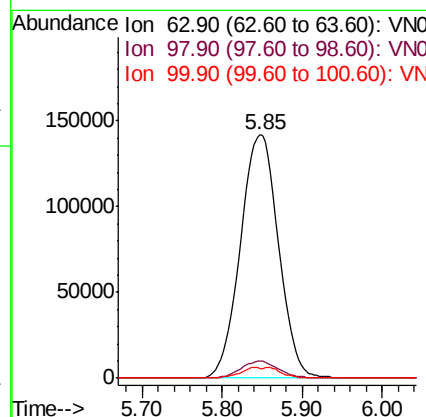
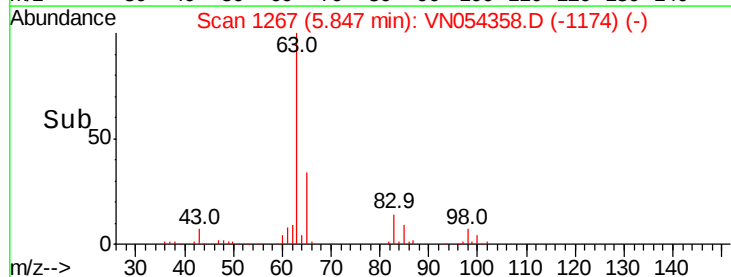
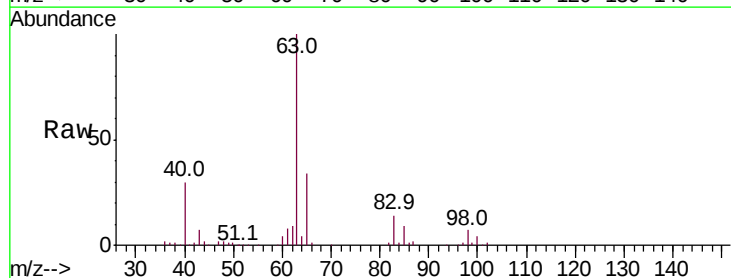
Tgt Ion: 63 Resp: 457668

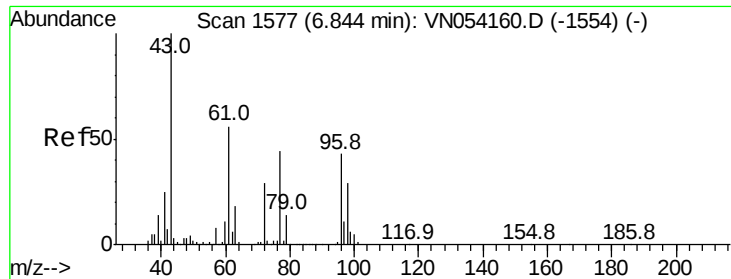
Ion Ratio Lower Upper

63 100

98 7.1 3.5 10.5

100 4.0 2.0 6.0





#25

2-Butanone

Concen: 111.103 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 43 Resp: 477802

Ion Ratio Lower Upper

43 100

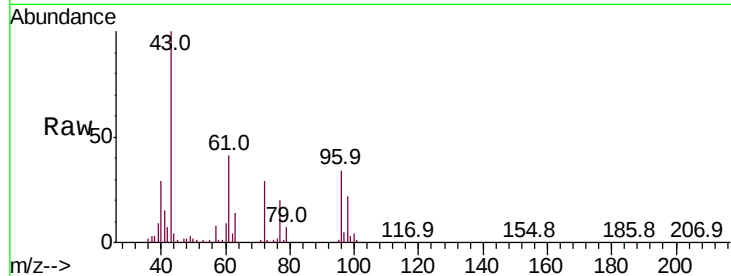
72 29.4 23.0 34.6

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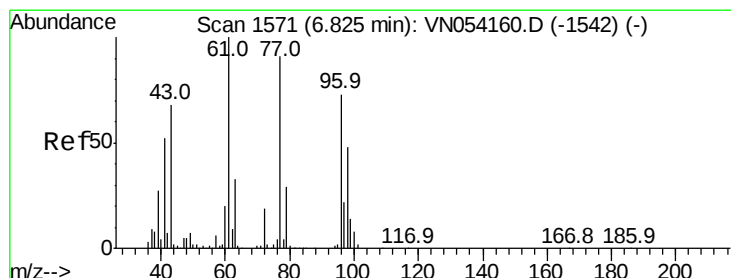
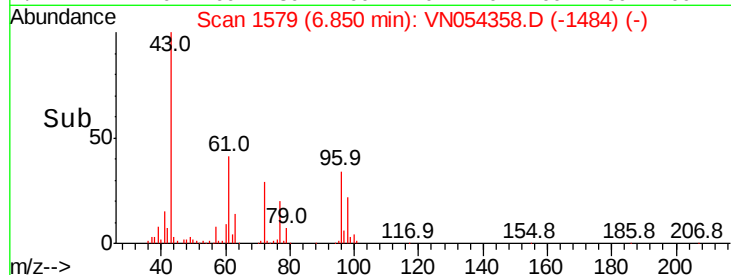
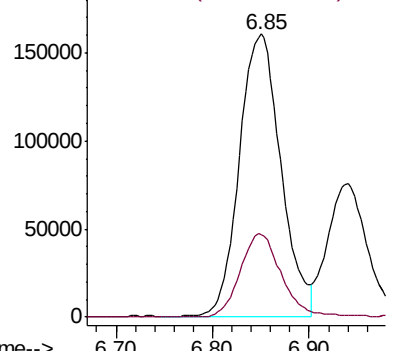
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 12.977 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054358.D

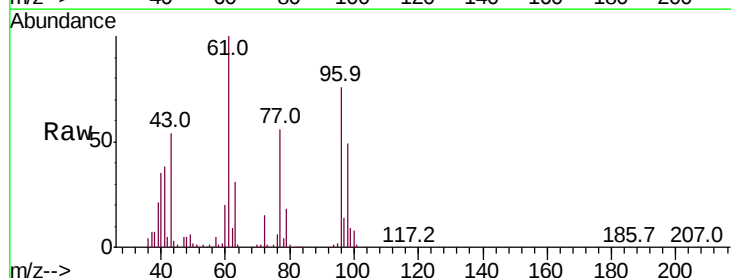
Acq: 17 Mar 2019 1:53

Tgt Ion: 77 Resp: 234884

Ion Ratio Lower Upper

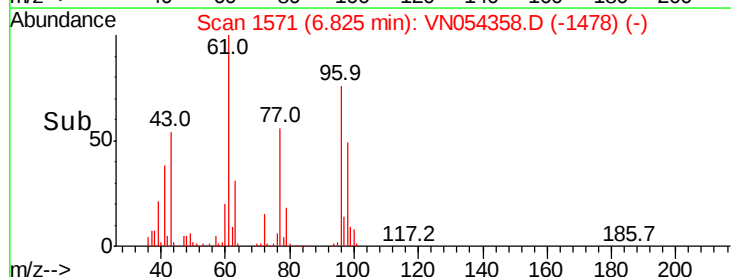
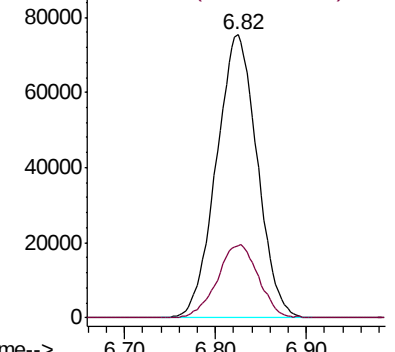
77 100

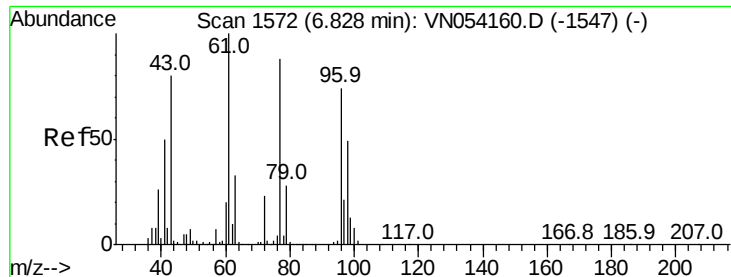
97 25.9 11.9 35.9



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: 22.364 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

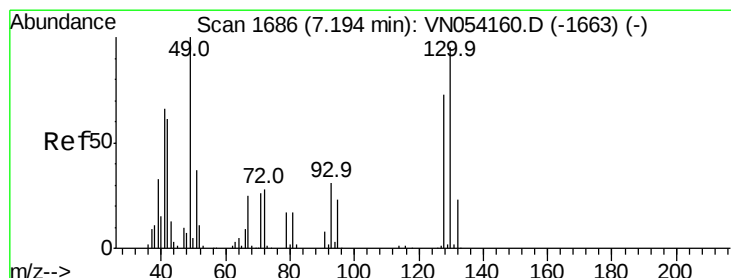
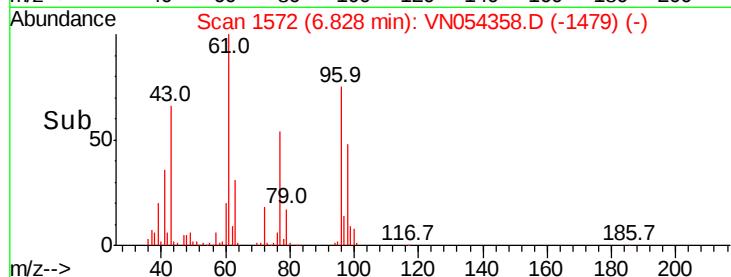
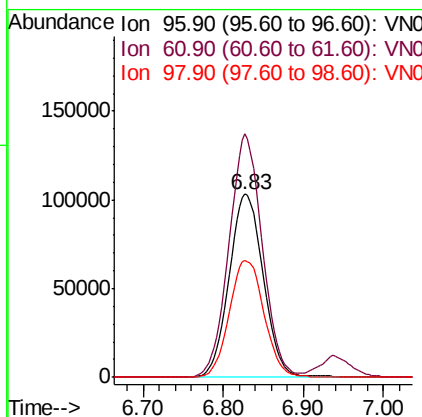
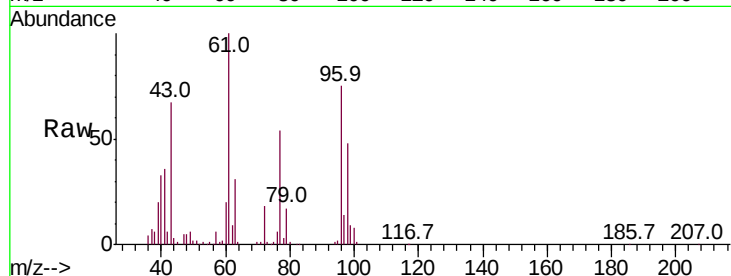
ClientSampleId :

VN0316WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	299259		
61	129.0	0.0	273.0	
98	64.8	0.0	130.6	

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#28

Bromochloromethane

Concen: 20.499 ug/l

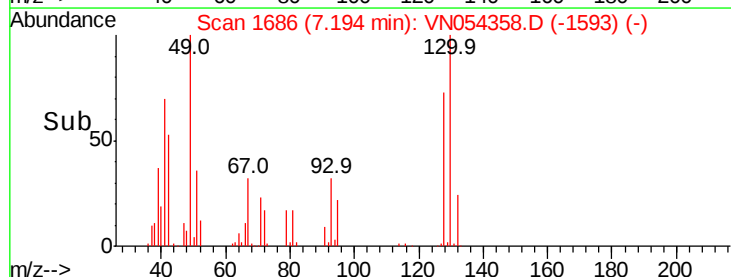
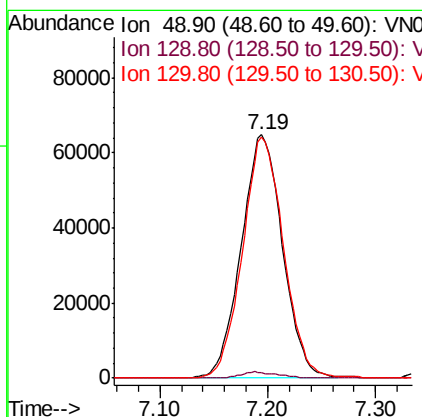
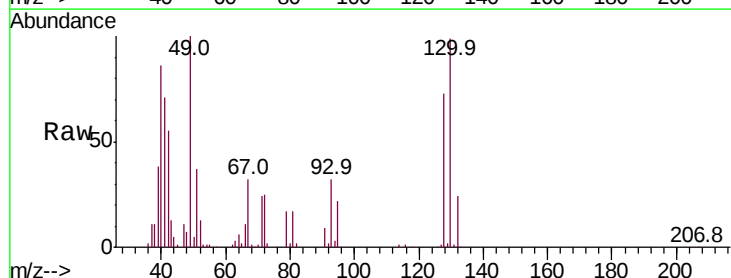
RT: 7.19 min Scan# 1686

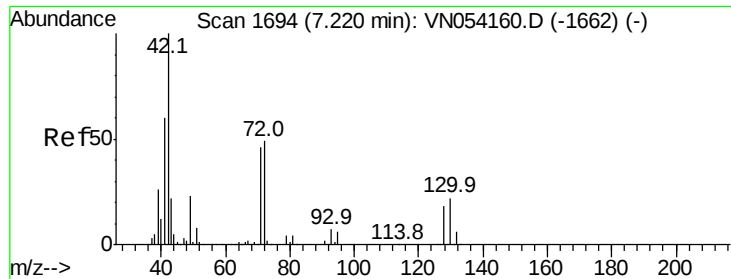
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	172489		
129	2.3	0.0	4.6	
130	97.9	76.7	115.1	





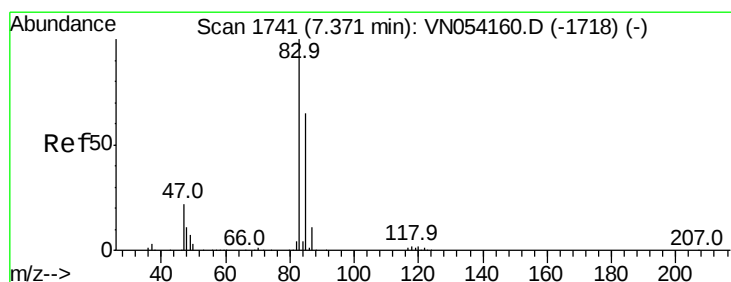
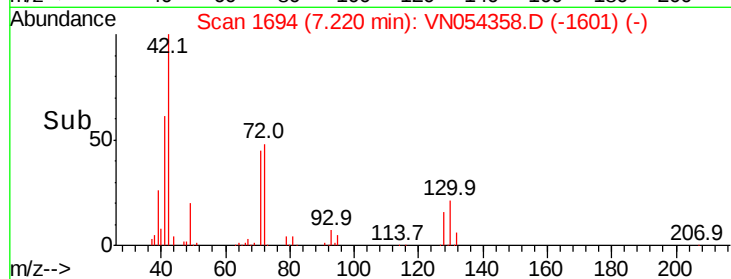
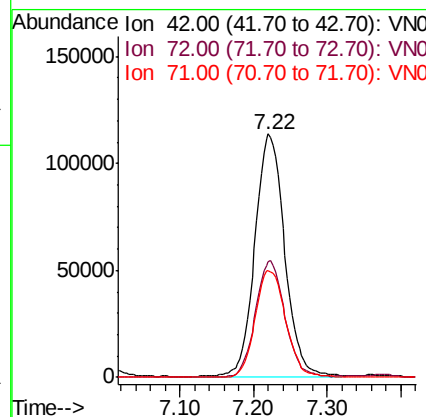
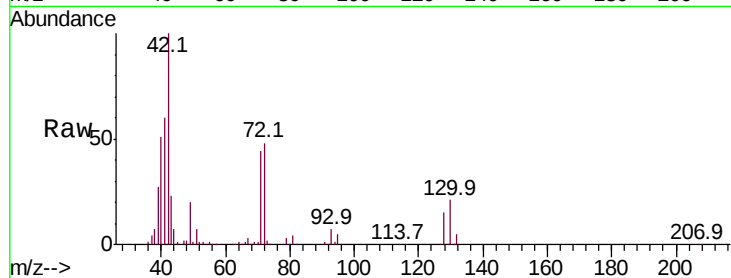
#29
Tetrahydrofuran
Concen: 116.006 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.3	37.8	56.6
71	44.9	36.2	54.2

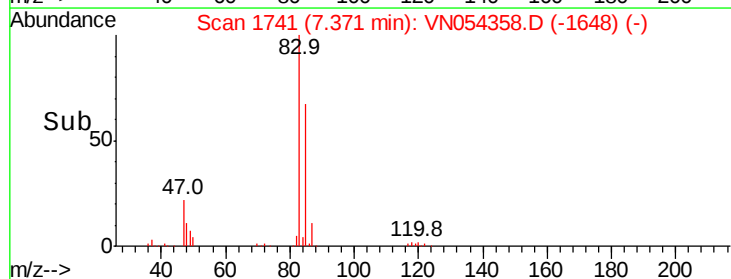
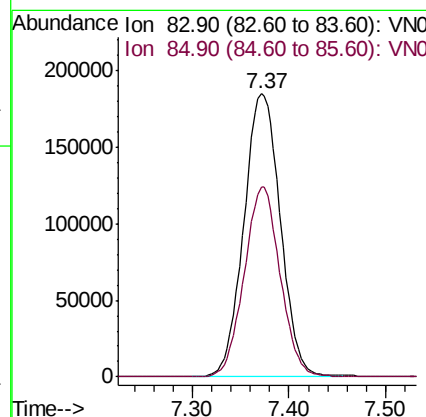
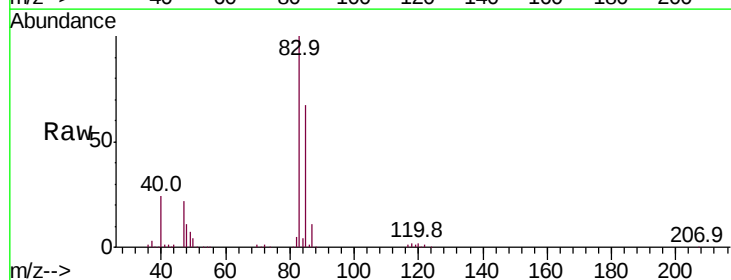
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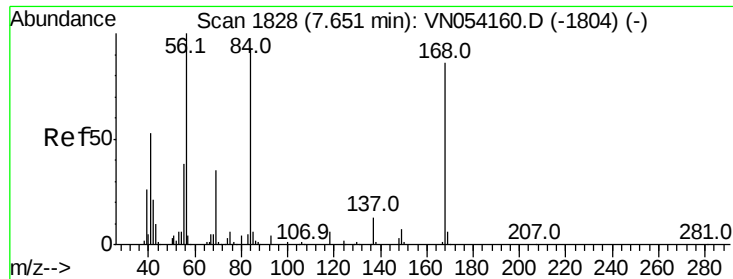
MMDadoda
3/18/2019 11:59:28 AM



#30
Chloroform
Concen: 22.612 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.2	78.4





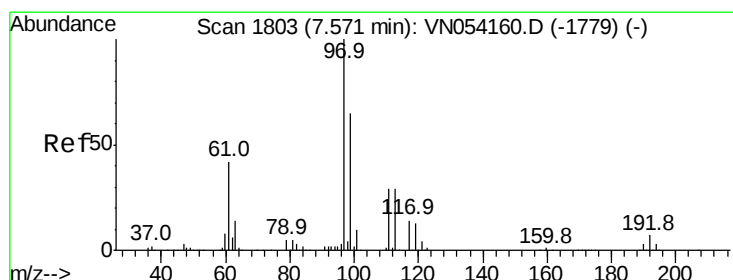
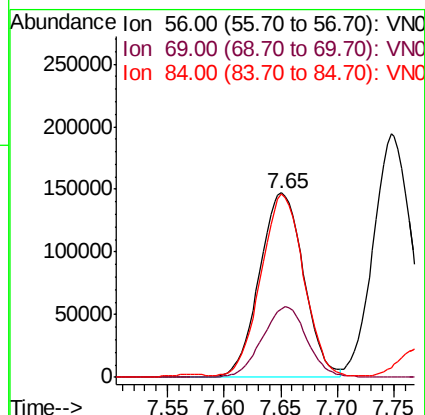
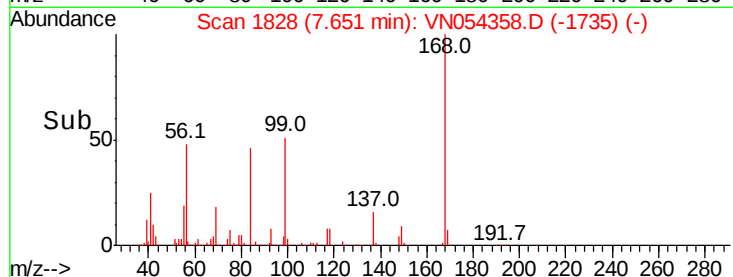
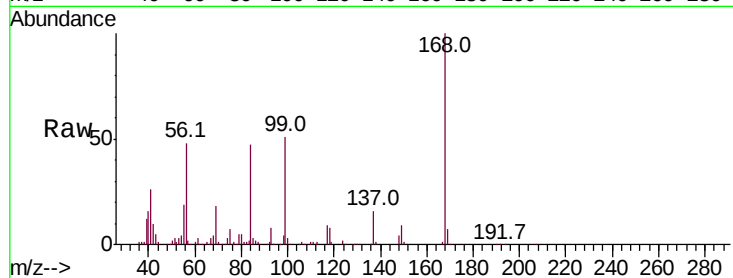
#31
Cyclohexane
Concen: 20.033 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampled :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.4	27.8	41.6
84	97.5	74.6	111.8

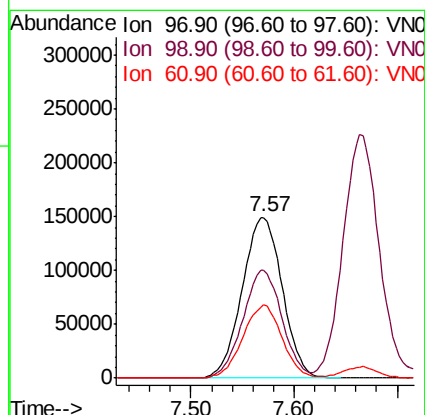
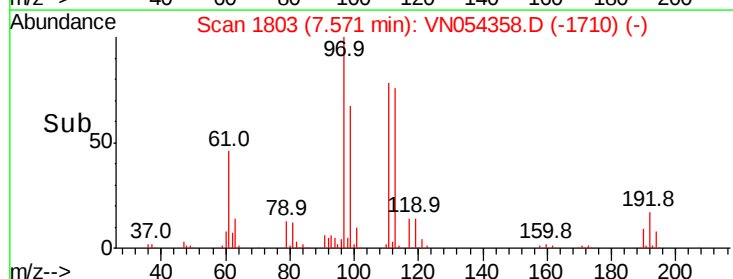
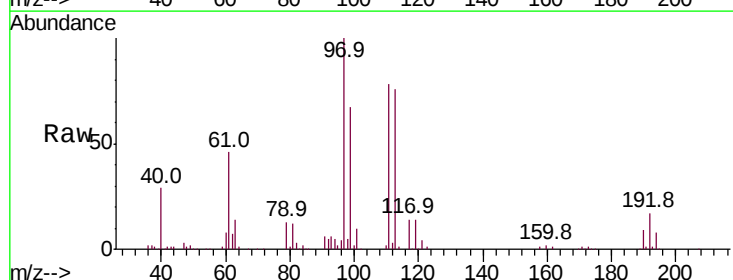
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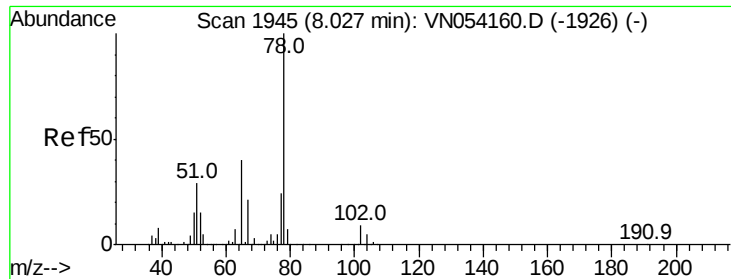
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3/18/2019 11:59:28 AM



#32
1,1,1-Trichloroethane
Concen: 20.824 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.5	77.3
61	44.4	33.6	50.4





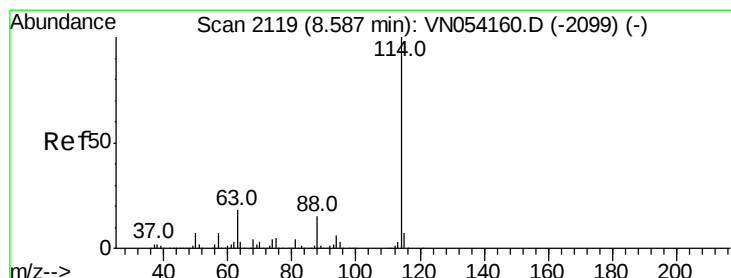
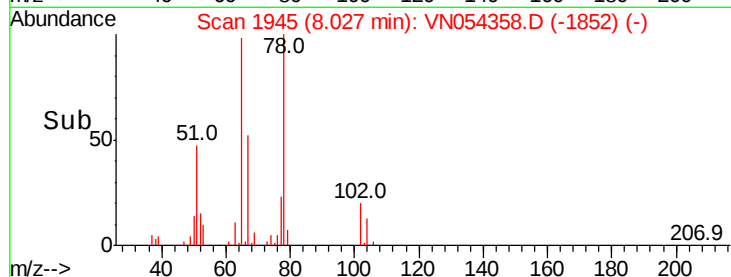
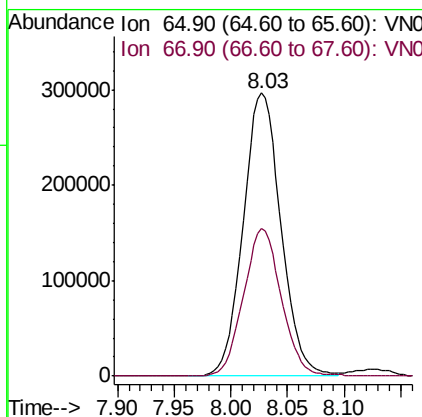
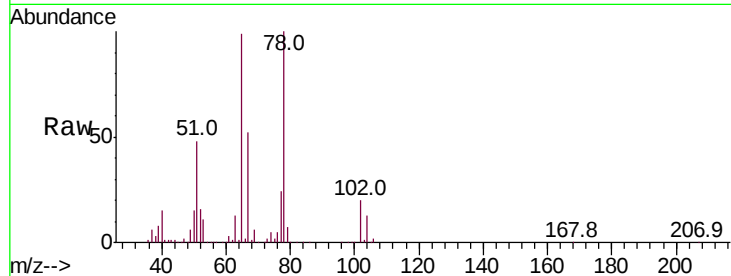
#33
 1,2-Dichloroethane-d4
 Concen: 53.818 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	104.6

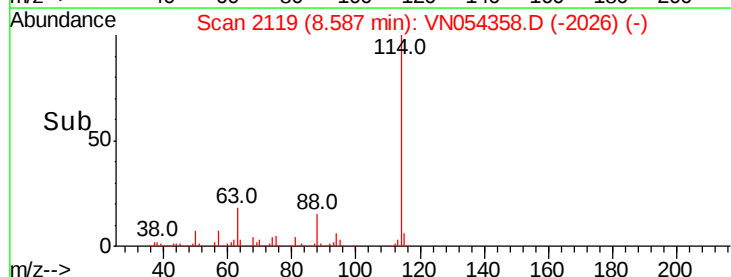
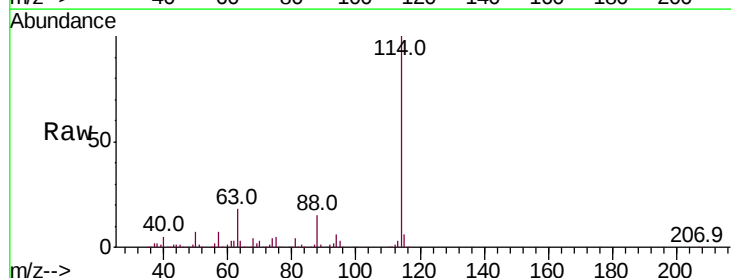
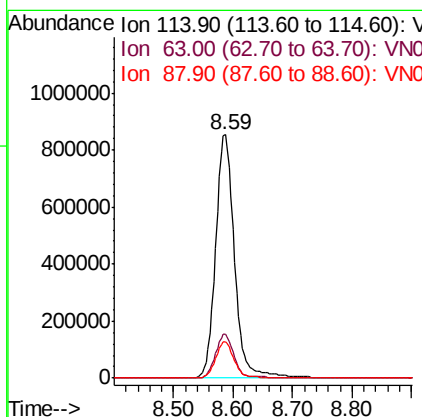
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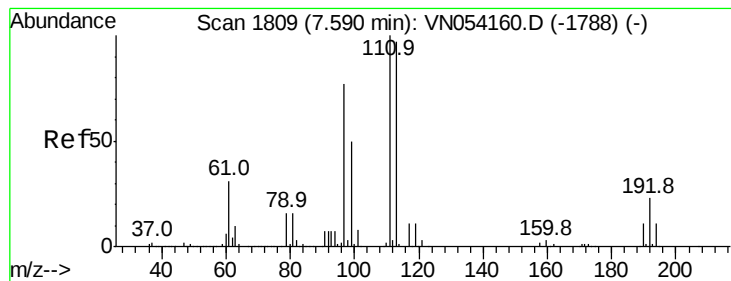
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	35.2
88	14.9	0.0	30.2





#35

Dibromofluoromethane

Concen: 51.546 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

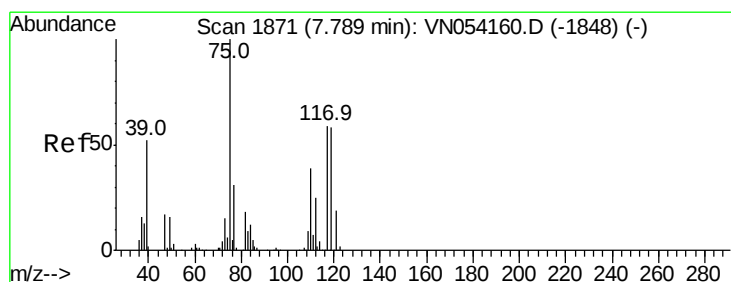
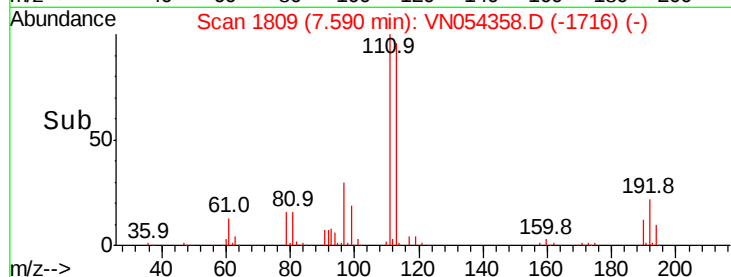
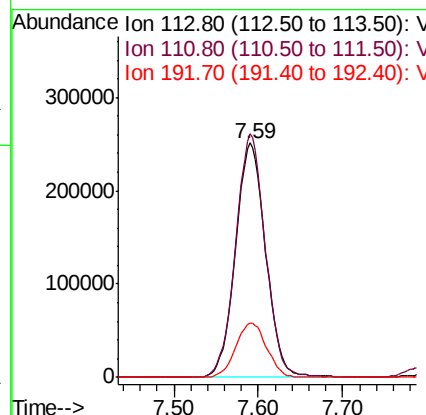
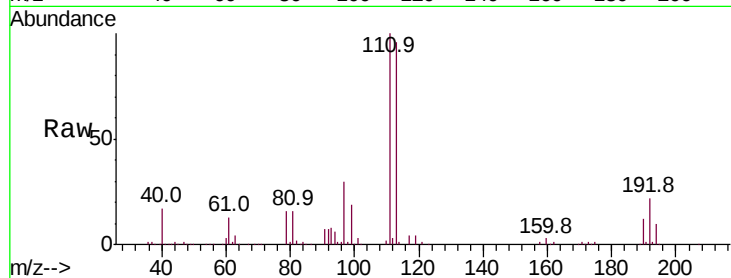
ClientSampleId :

VN0316WBSD02

Tot Ion:	113	Resp:	625711
Ion Ratio	Lower	Upper	
113	100		
111	102.1	82.2	123.4
192	23.8	19.2	28.8

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.648 ug/l

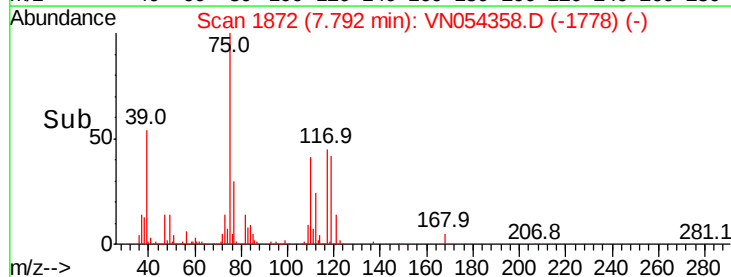
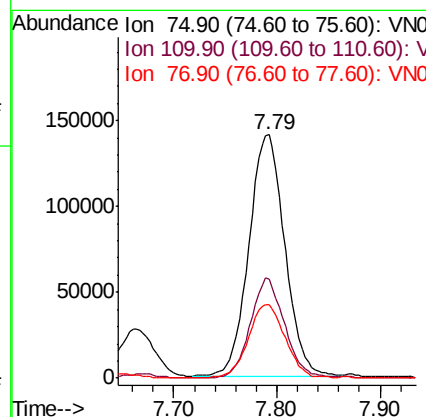
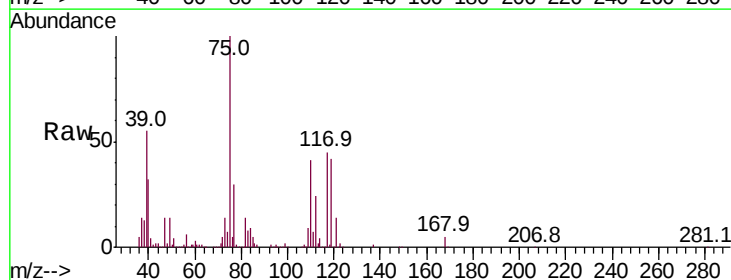
RT: 7.79 min Scan# 1872

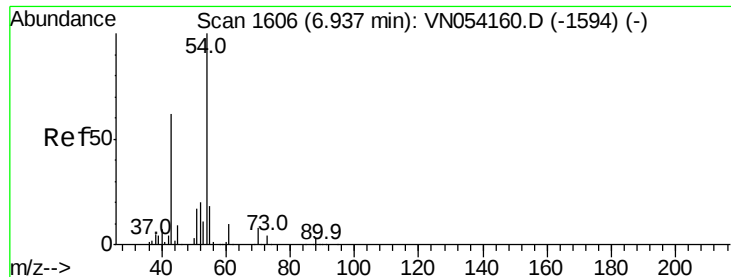
Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	75	Resp:	340547
Ion Ratio	Lower	Upper	
75	100		
110	39.8	19.1	57.5
77	31.4	25.0	37.4





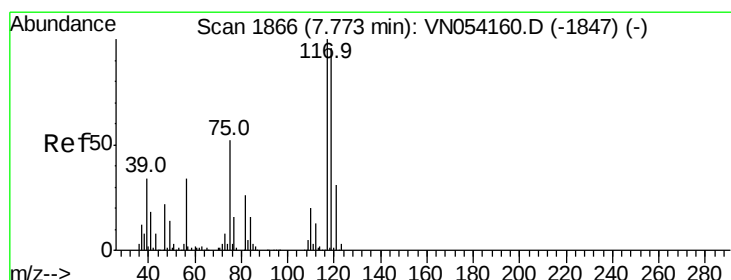
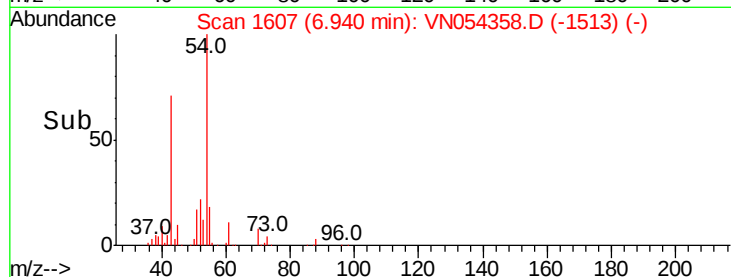
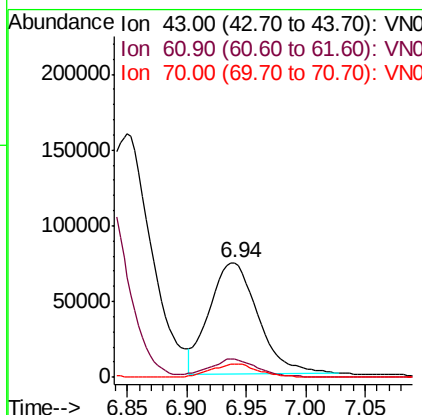
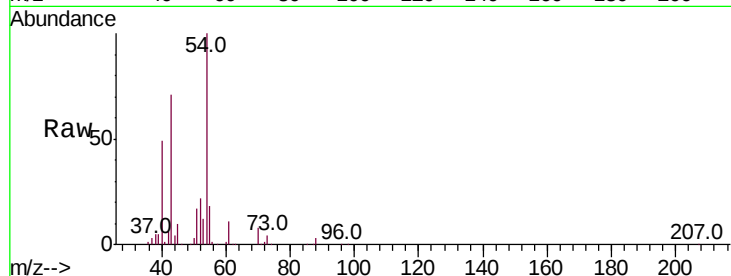
#37
Ethyl Acetate
Concen: 21.151 ug/l
RT: 6.94 min Scan# 1607
Delta R.T. 0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.8	17.6
70	11.7	8.4	12.6

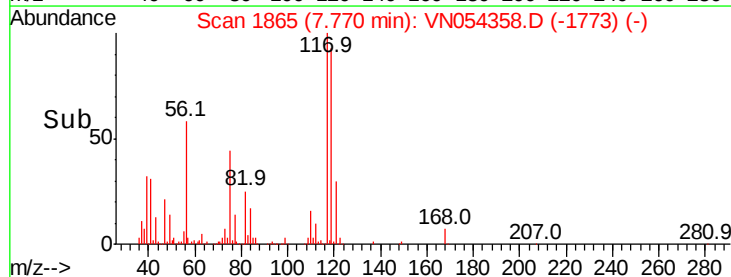
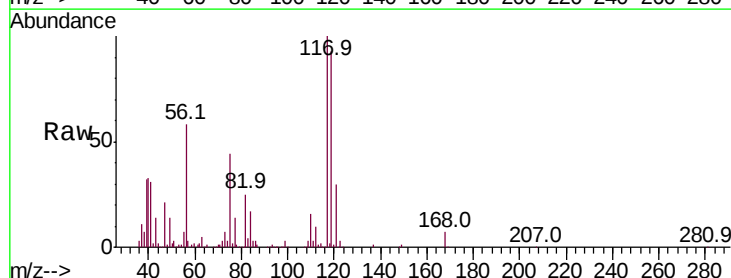
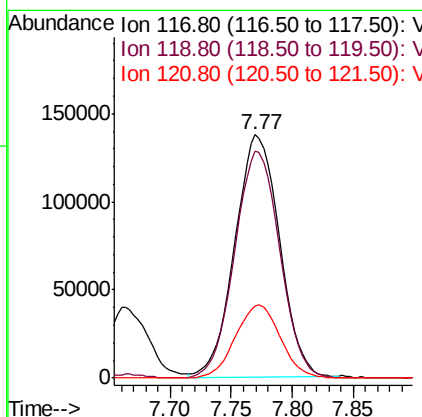
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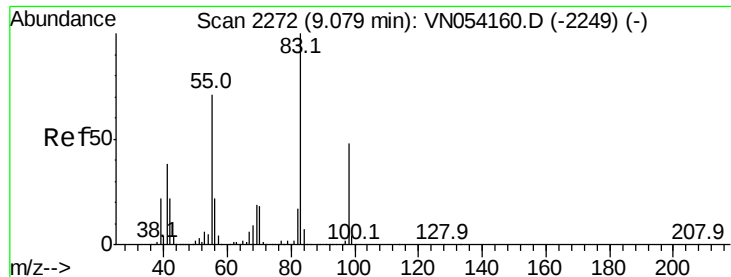
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3/18/2019 11:59:28 AM



#38
Carbon Tetrachloride
Concen: 19.187 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	76.3	114.5
121	29.7	24.6	36.8





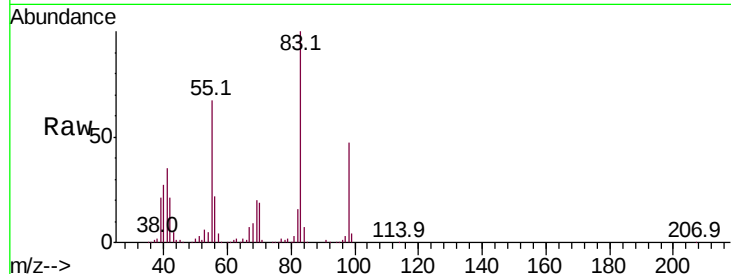
#39
Methvlcvclohexane
Concen: 18.679 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

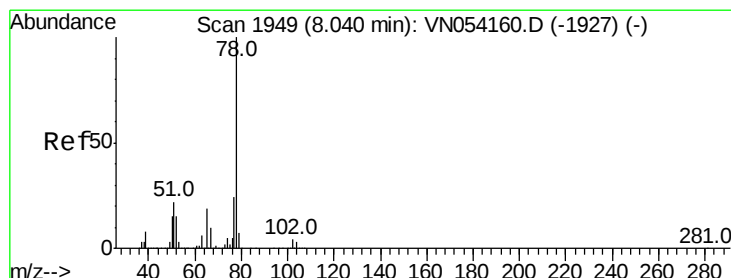
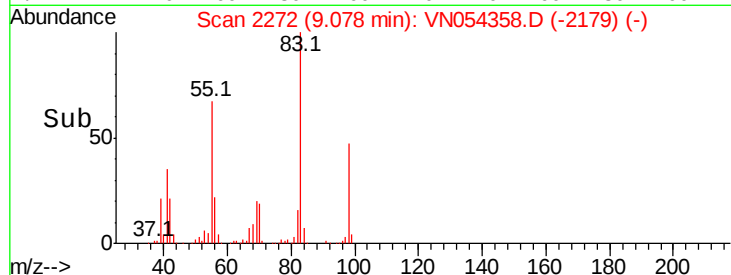
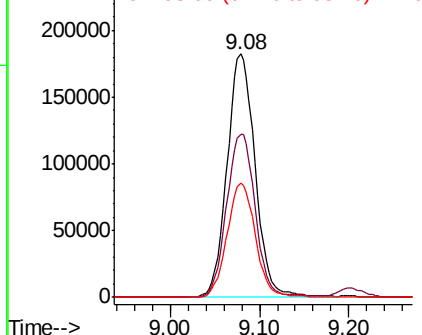
Tot Ion	Ratio	Lower	Upper
83	100		
55	67.0	56.6	84.8
98	46.9	38.4	57.6

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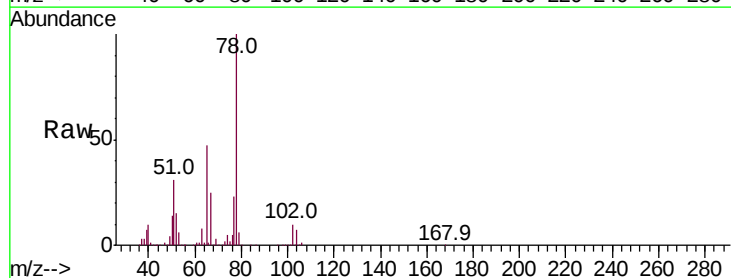


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

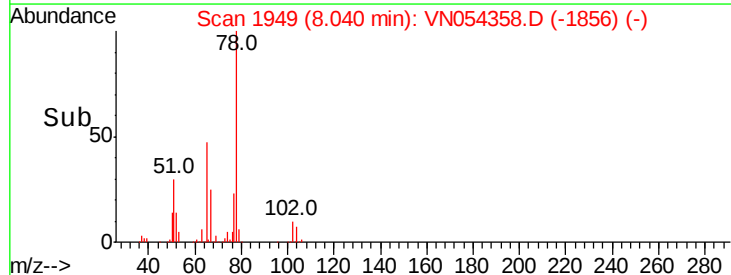
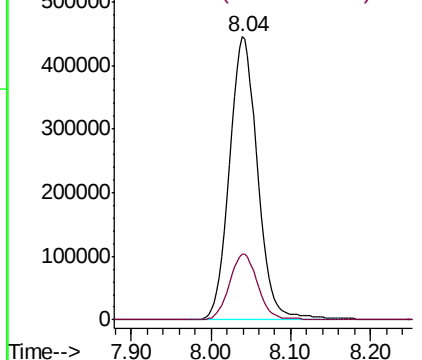


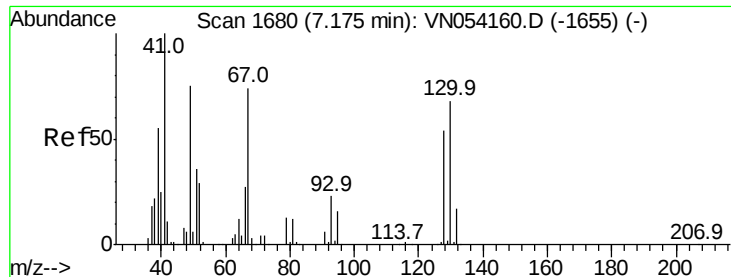
#40
Benzene
Concen: 21.421 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.1	28.7



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





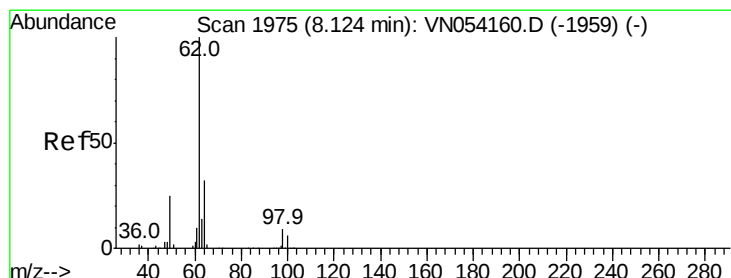
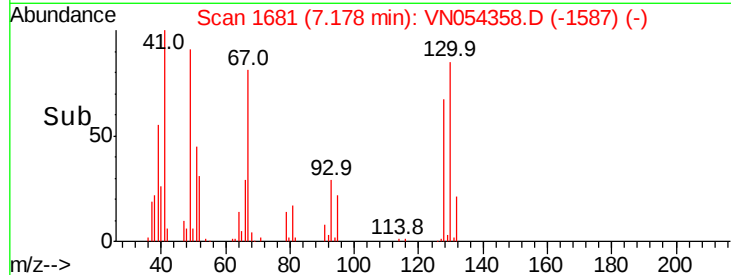
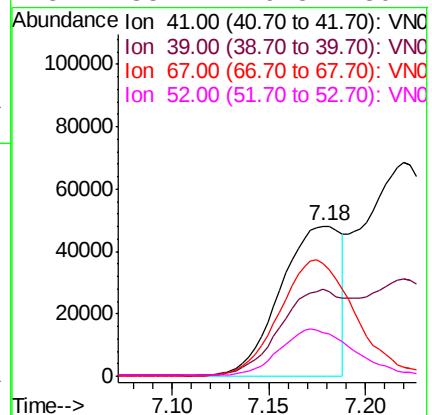
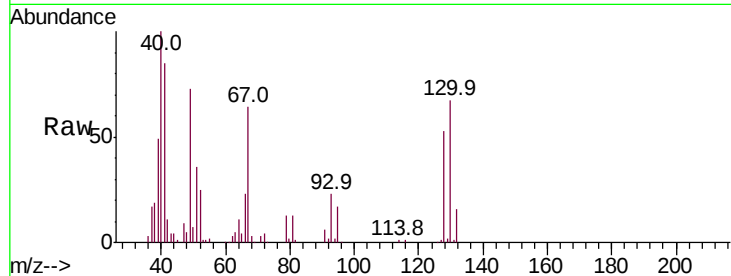
#41
Methacrylonitrile
Concen: 18.323 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	65.2	46.8	70.2	
67	99.7	67.0	100.4	
52	38.2	26.5	39.7	

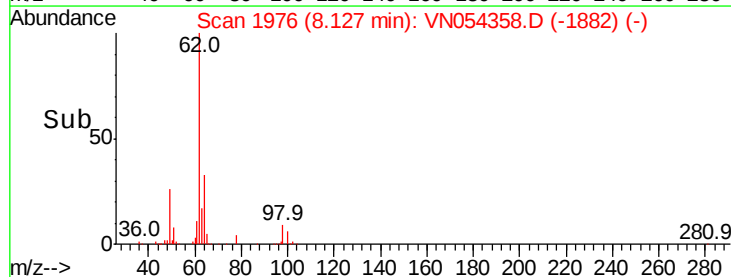
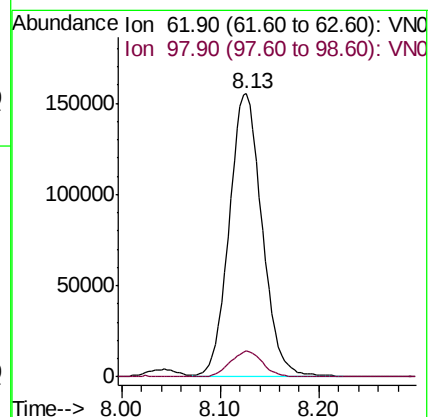
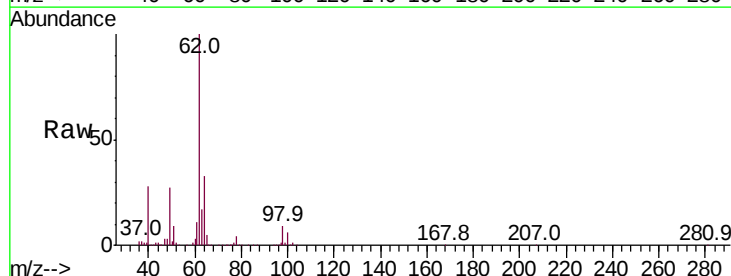
Manual Integrations
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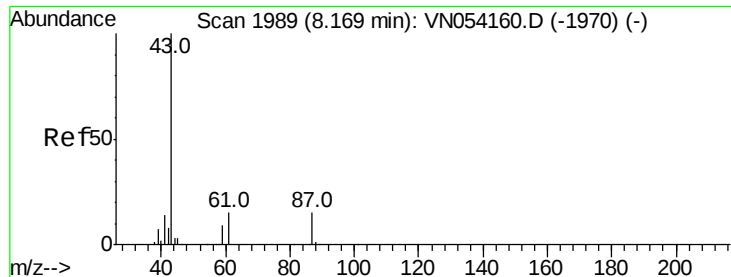
MMDadoda
3/18/2019 11:59:28 AM



#42
1,2-Dichloroethane
Concen: 21.441 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.1	0.0	18.4	





#43

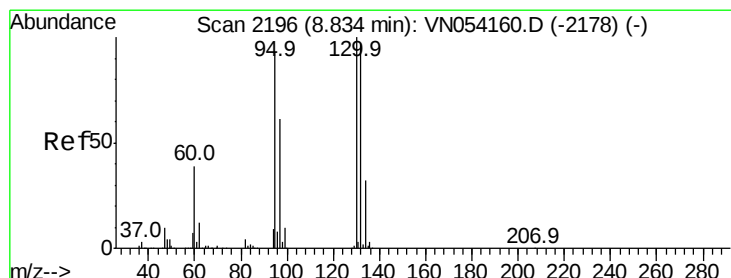
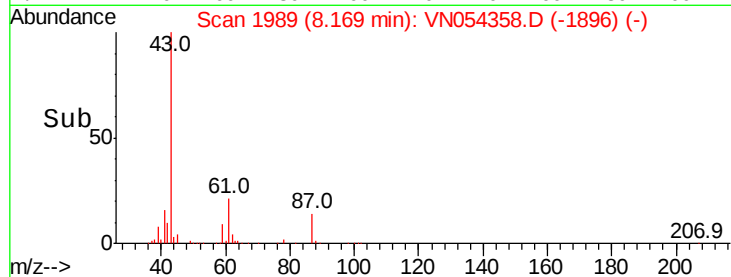
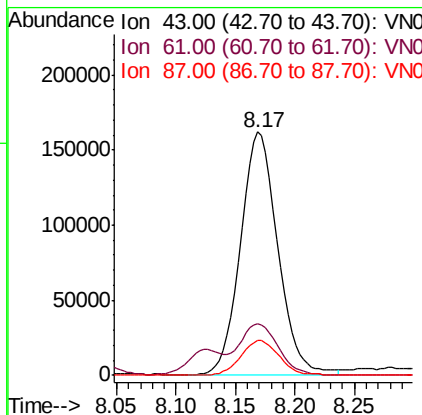
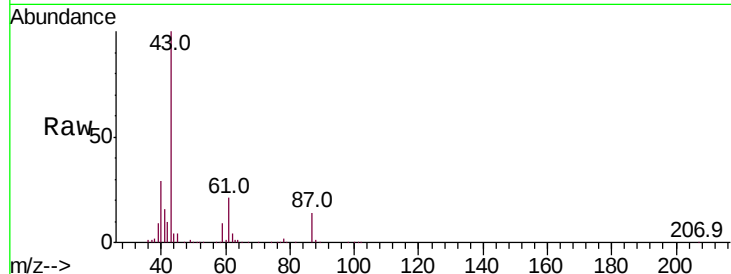
Isopropyl Acetate
 Concen: 20.051 ug/l
 RT: 8.17 min Scan# 1989
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.4	15.8	23.8
87	15.0	12.0	18.0

Manual Integrations
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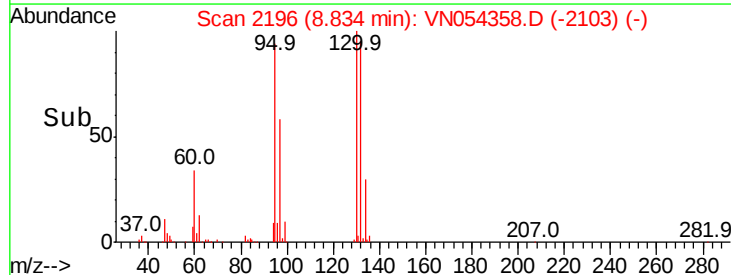
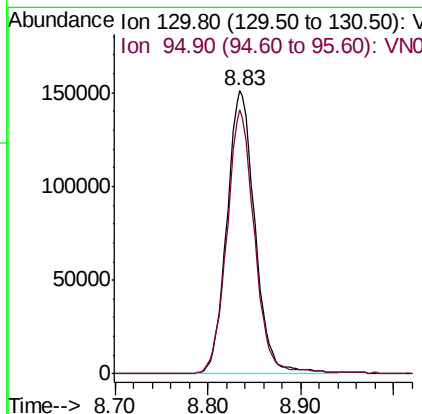
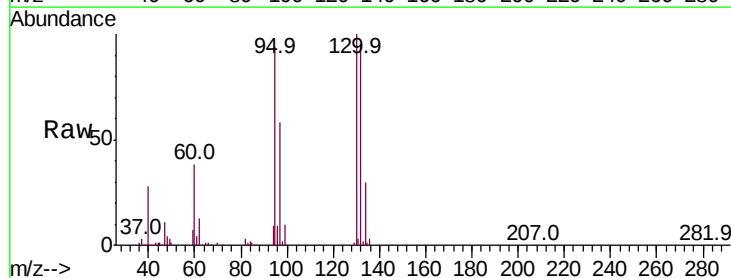
MMDadoda
 3/18/2019 11:59:28 AM

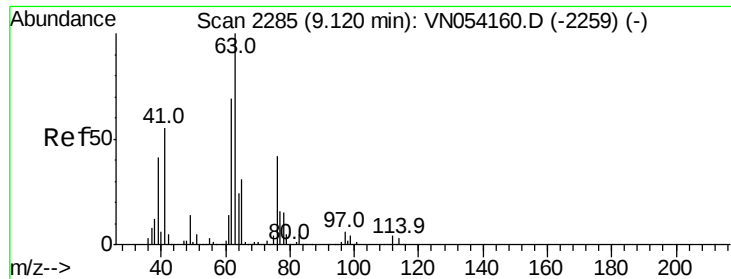


#44

Trichloroethene
 Concen: 20.602 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	93.4	0.0	185.2





#45

1,2-Dichloropropane

Concen: 21.883 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 63 Resp: 269511

Ion Ratio Lower Upper

63 100

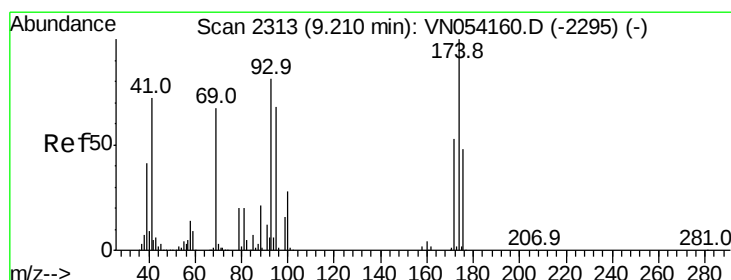
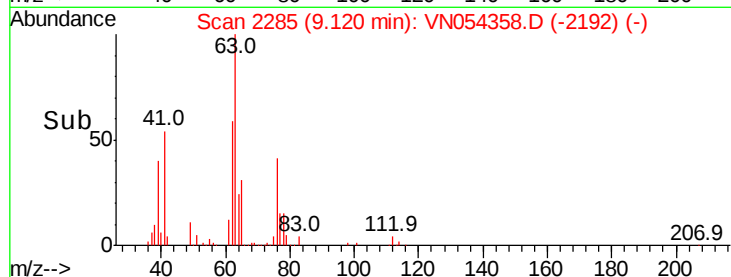
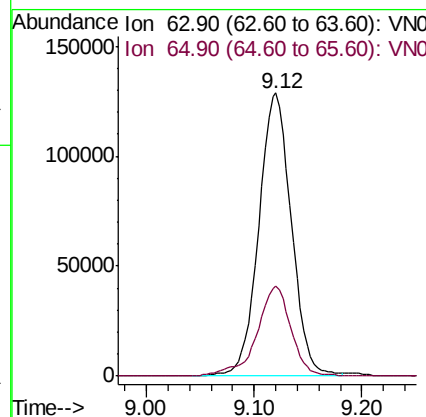
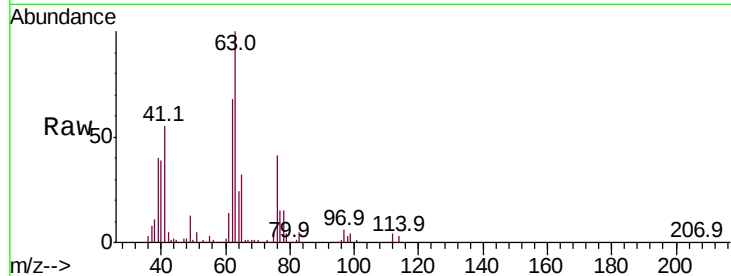
65 31.7 25.0 37.6

Manual Integrations

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#46

Dibromomethane

Concen: 21.598 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

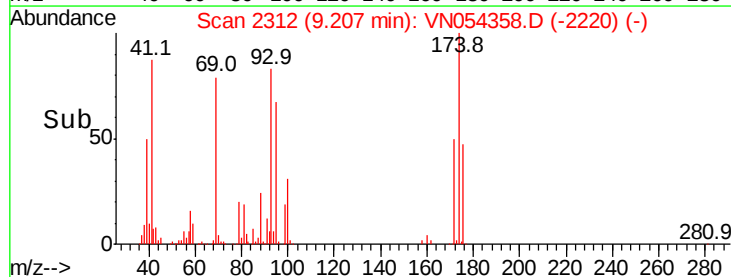
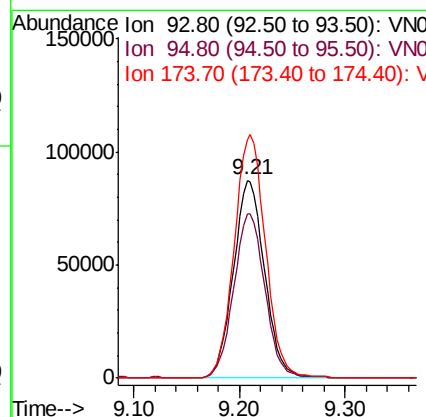
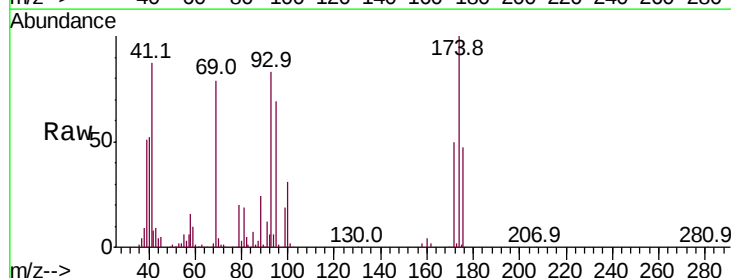
Tgt Ion: 93 Resp: 179728

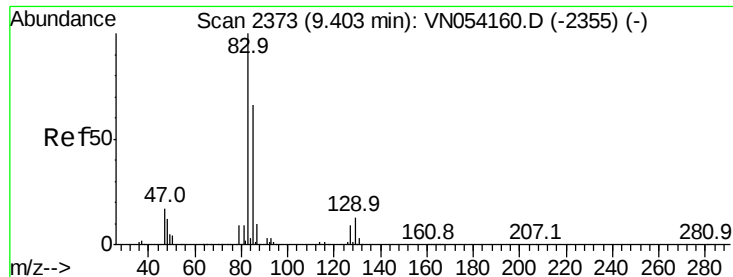
Ion Ratio Lower Upper

93 100

95 82.1 66.7 100.1

174 123.0 98.5 147.7





#47

Bromodichloromethane

Concen: 20.746 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

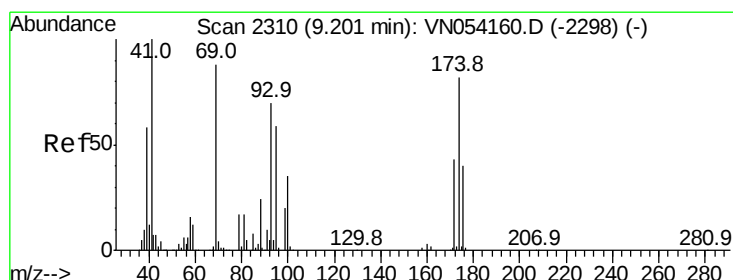
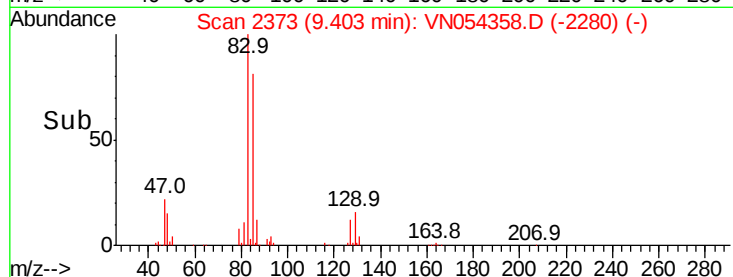
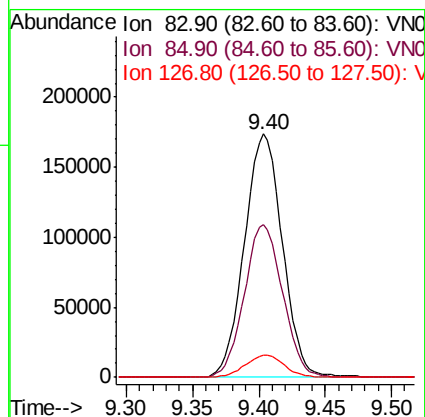
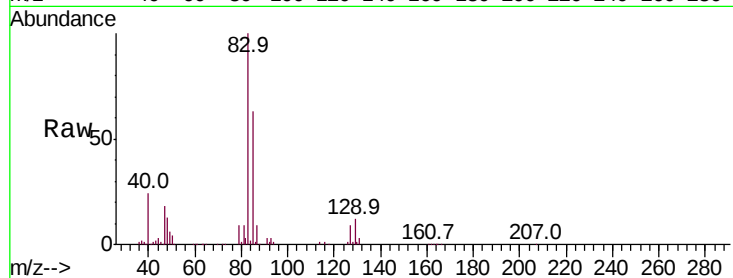
ClientSampleId :

VN0316WBSD02

Tot Ion:	83	Resp:	346090
Ion Ratio	Lower	Upper	
83	100		
85	62.8	52.8	79.2
127	9.0	7.4	11.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 21.623 ug/l

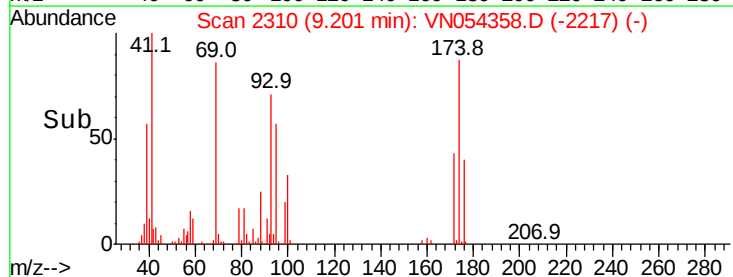
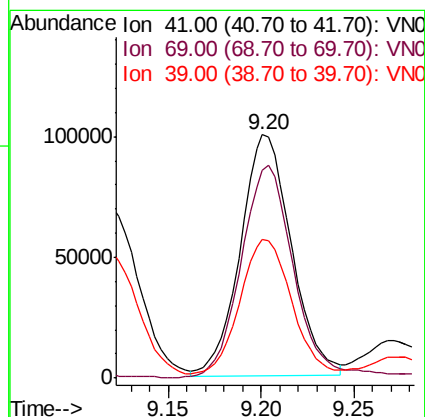
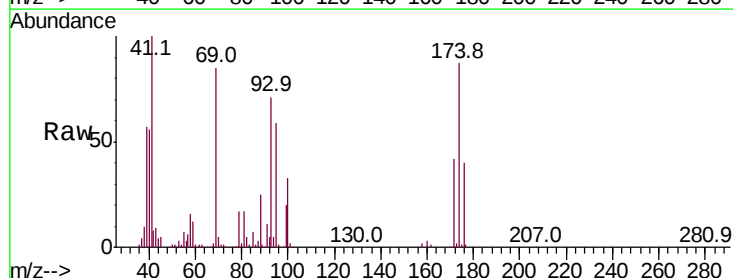
RT: 9.20 min Scan# 2310

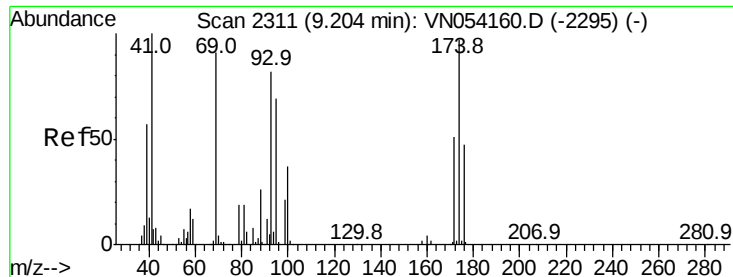
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	41	Resp:	191824
Ion Ratio	Lower	Upper	
41	100		
69	91.6	72.6	108.8
39	59.0	47.5	71.3





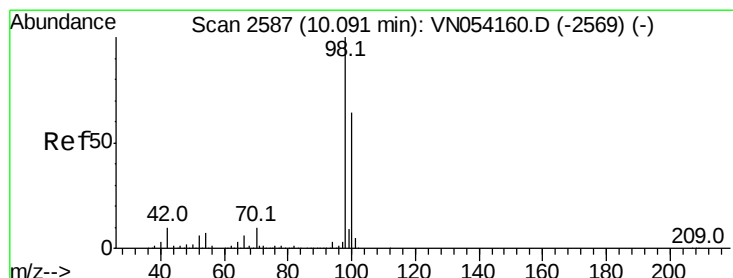
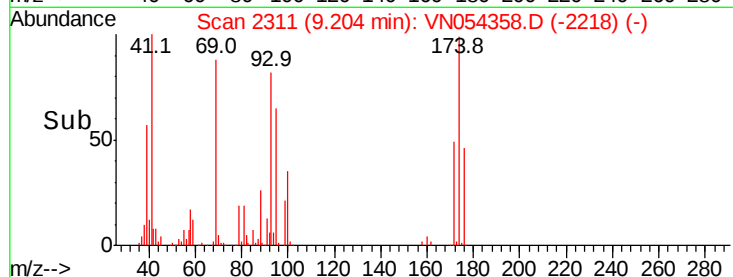
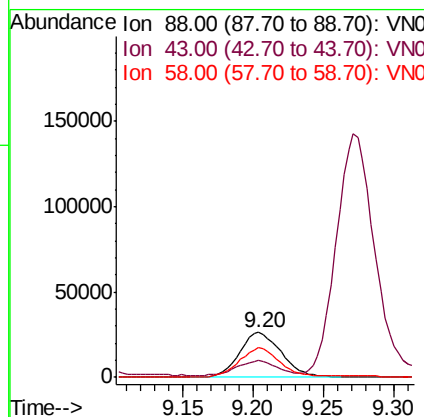
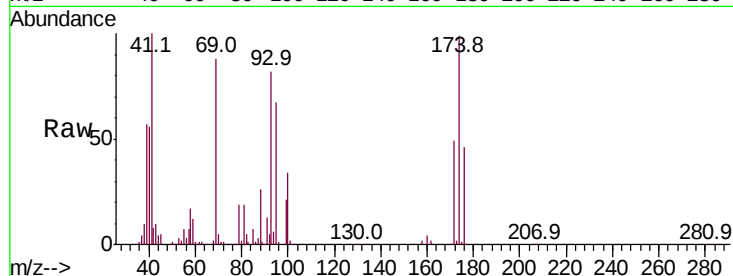
#49
1,4-Dioxane
Concen: 439.823 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	88	Resp	55191
Ion	Ratio	Lower	Upper
88	100		
43	30.5	24.1	36.1
58	63.5	50.8	76.2

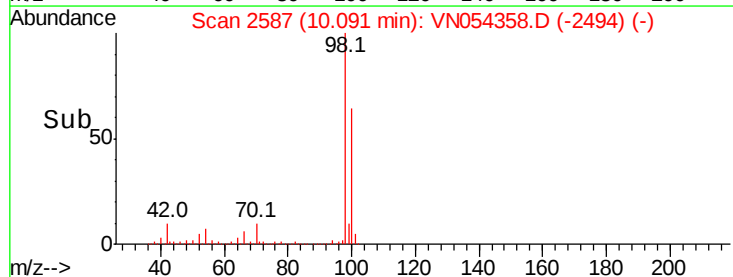
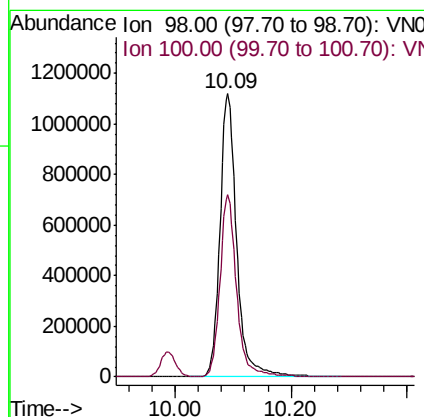
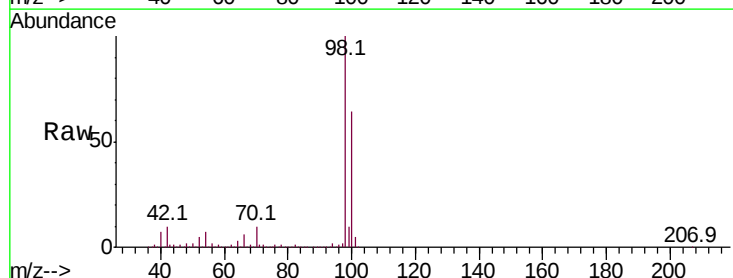
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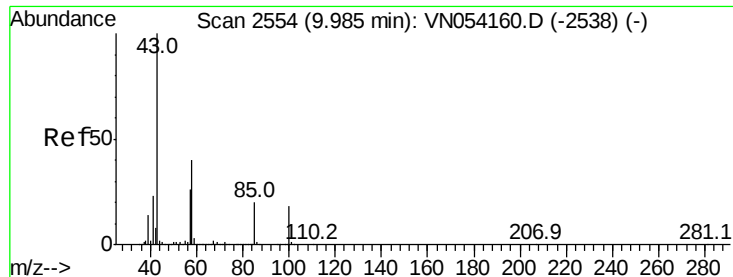
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#50
Toluene-d8
Concen: 49.957 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	98	Resp	2239619
Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.2	76.8





#51

4-Methyl-2-Pentanone

Concen: 112.372 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 43 Resp: 1039569

Ion Ratio Lower Upper

43 100

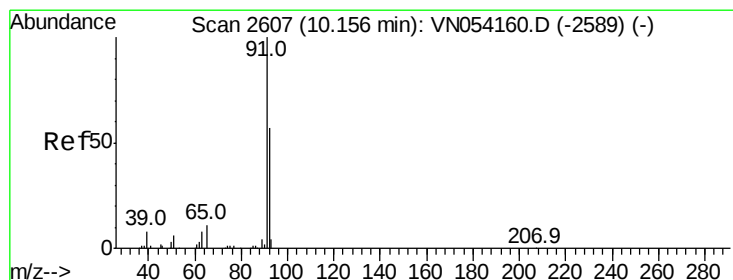
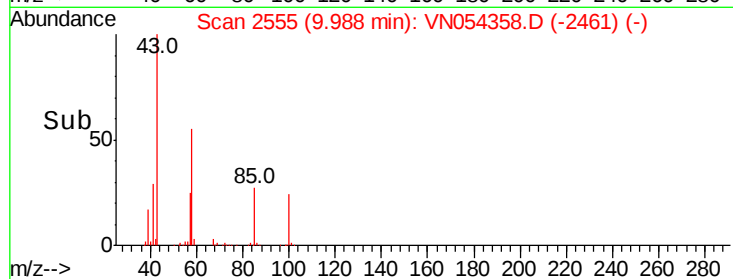
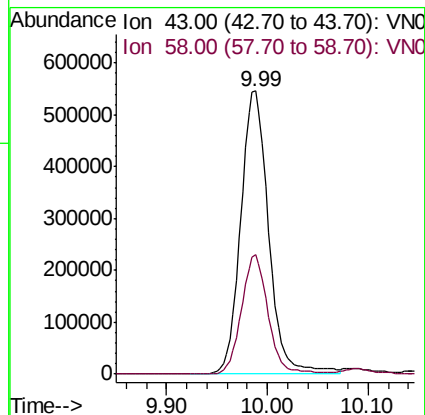
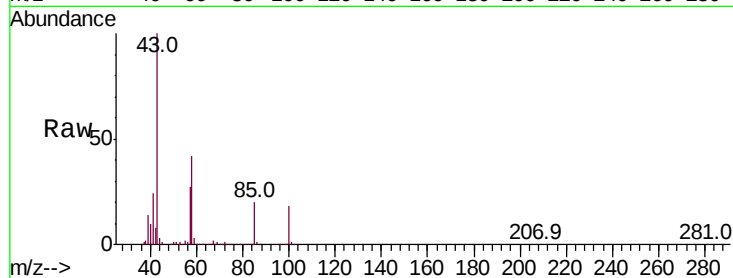
58 40.5 31.8 47.6

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#52

Toluene

Concen: 20.958 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054358.D

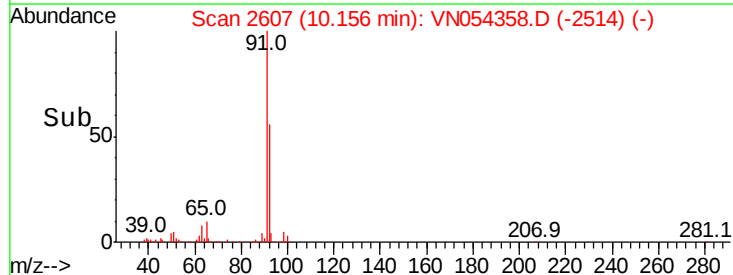
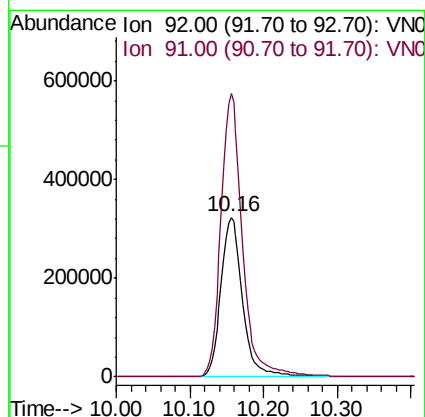
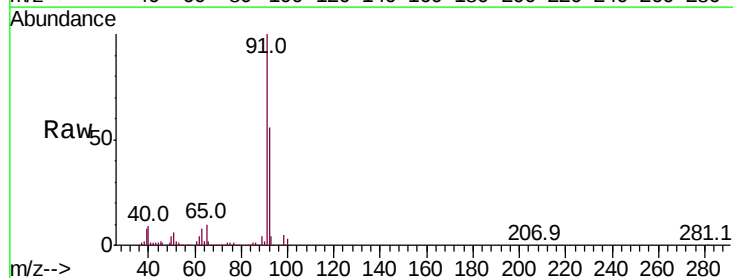
Acq: 17 Mar 2019 1:53

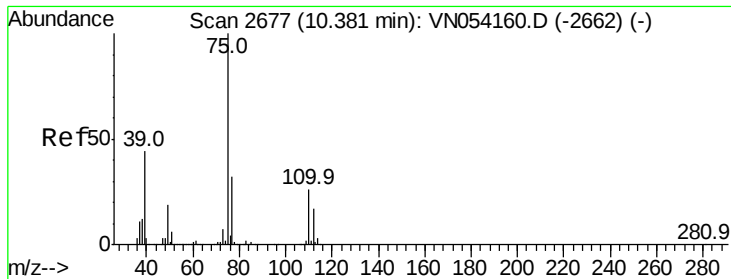
Tgt Ion: 92 Resp: 659121

Ion Ratio Lower Upper

92 100

91 175.5 140.7 211.1





#53

t-1,3-Dichloropropene

Concen: 16.461 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 75 Resp: 287615

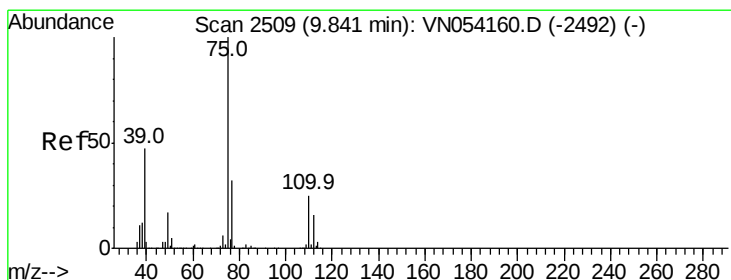
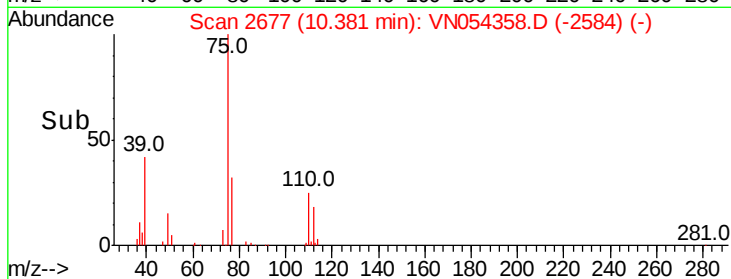
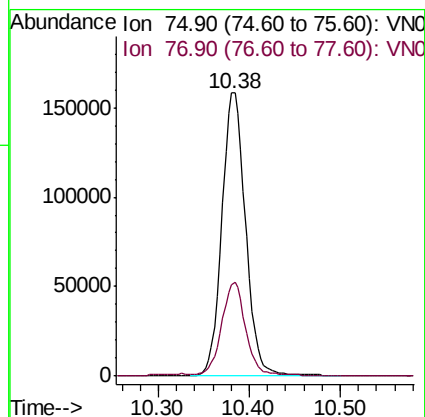
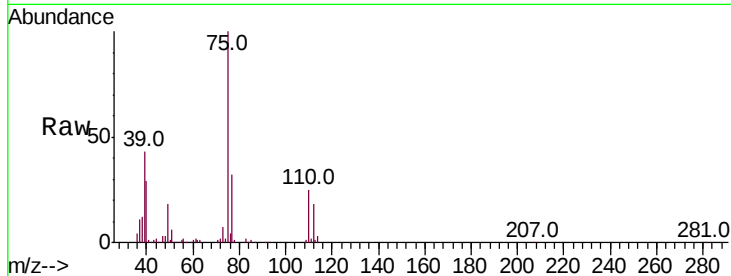
Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 18.352 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

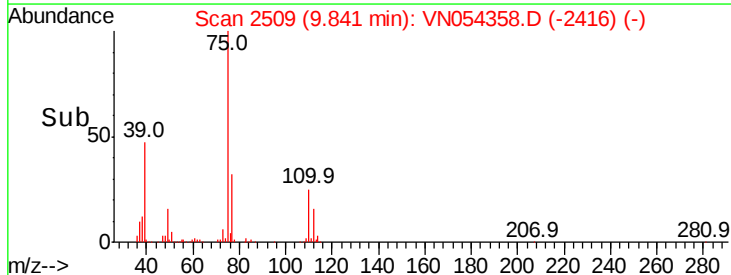
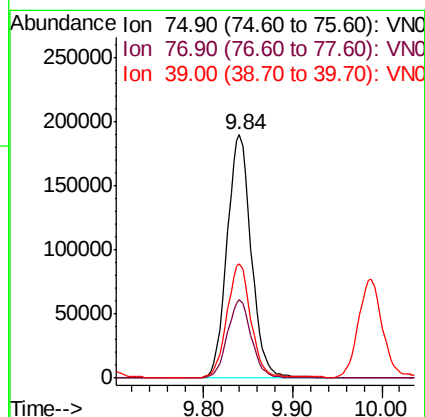
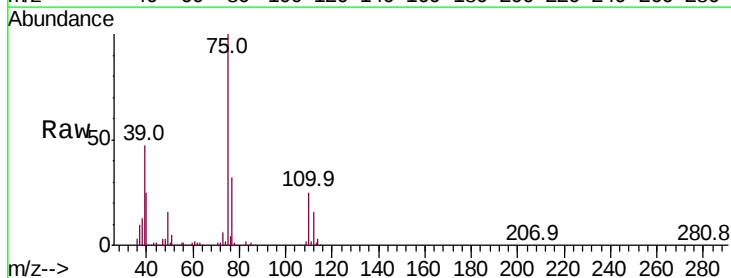
Tgt Ion: 75 Resp: 356772

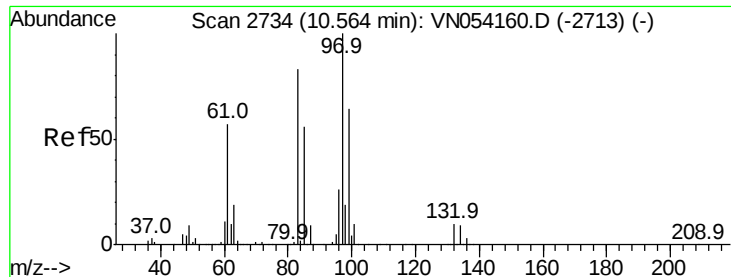
Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0

39 47.0 37.2 55.8





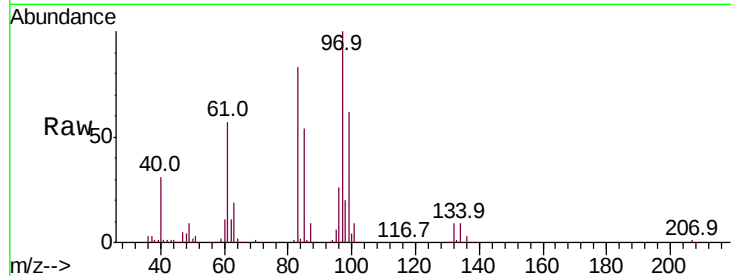
#55
 1,1,2-Trichloroethane
 Concen: 22.158 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0316WBSD02

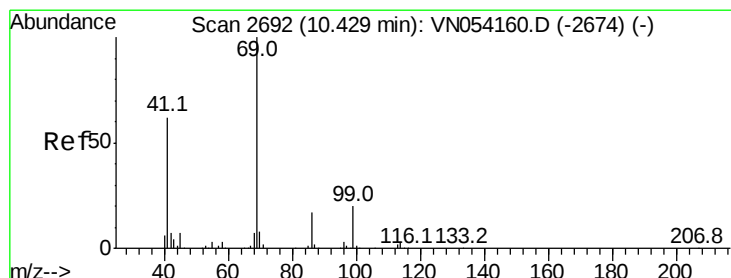
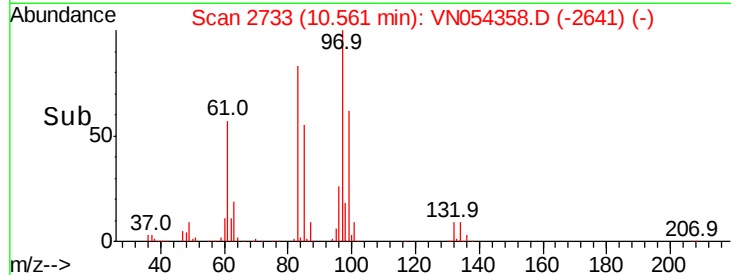
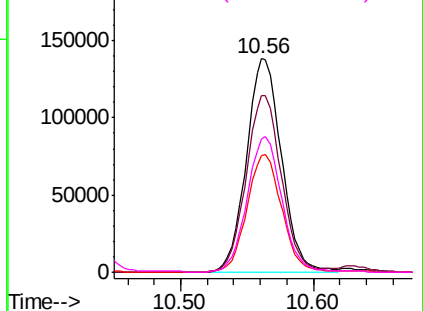
Tot Ion:	97	Resp:	254449
Ion	Ratio	Lower	Upper
97	100		
83	82.9	66.6	100.0
85	54.4	44.4	66.6
99	62.0	50.8	76.2

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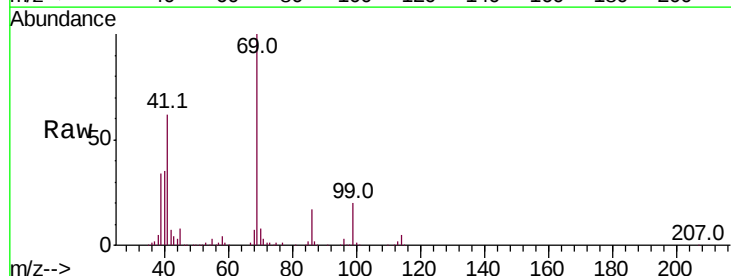


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

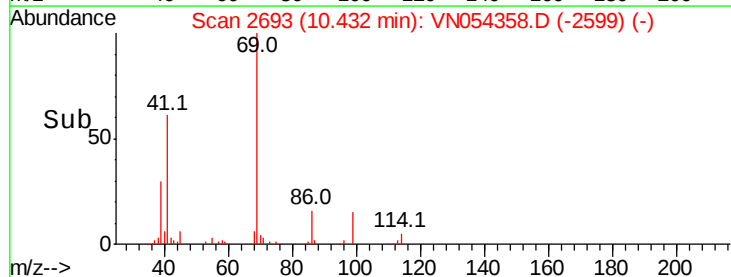
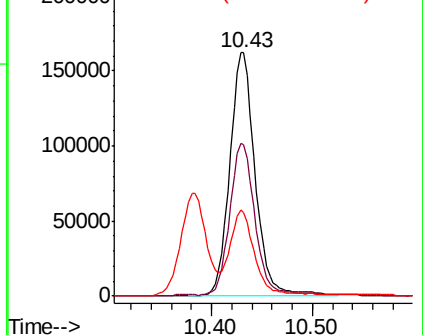


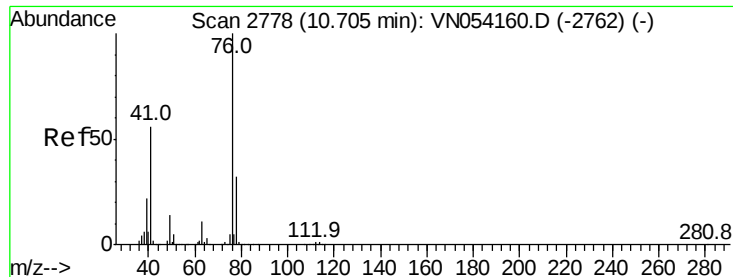
#56
 Ethyl methacrylate
 Concen: 20.876 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion:	69	Resp:	285847
Ion	Ratio	Lower	Upper
69	100		
41	61.5	49.4	74.2
39	32.7	28.3	42.5



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





#57

1,3-Dichloropropane

Concen: 21.942 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampled :

VN0316WBSD02

Tot Ion: 76 Resp: 412010

Ion Ratio Lower Upper

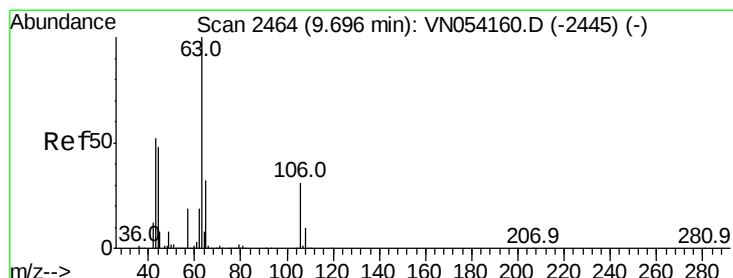
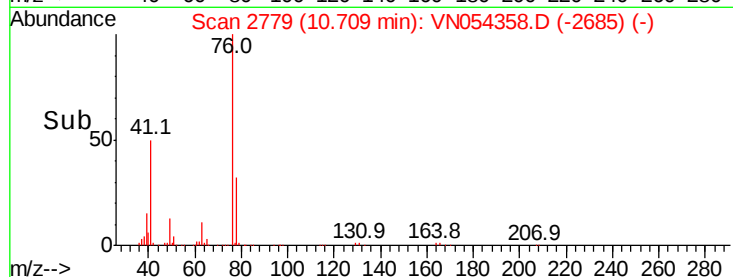
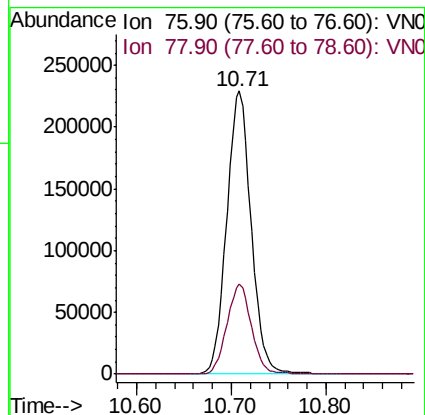
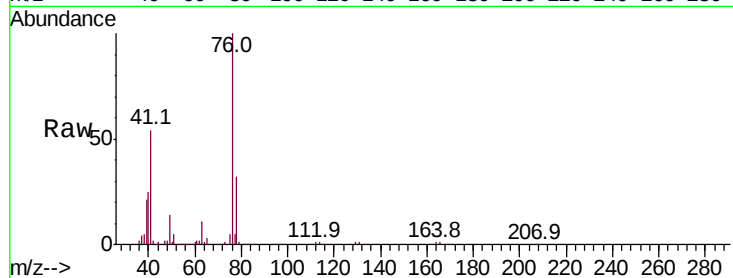
76 100

78 32.1 25.7 38.5

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 99.356 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN054358.D

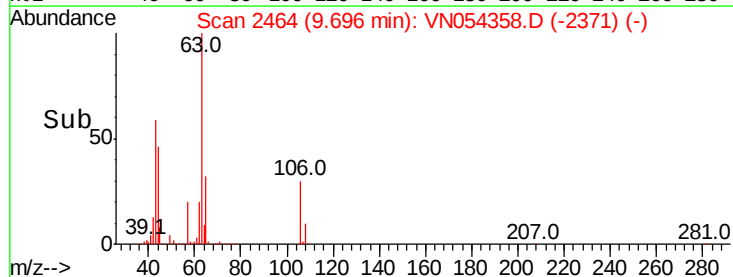
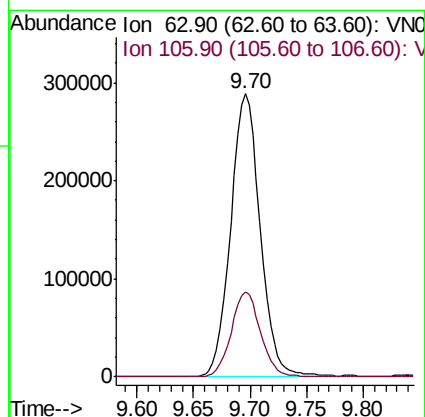
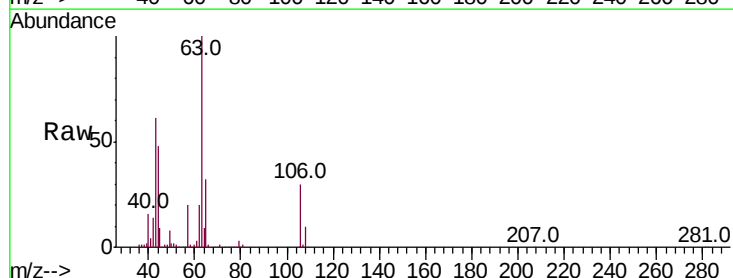
Acq: 17 Mar 2019 1:53

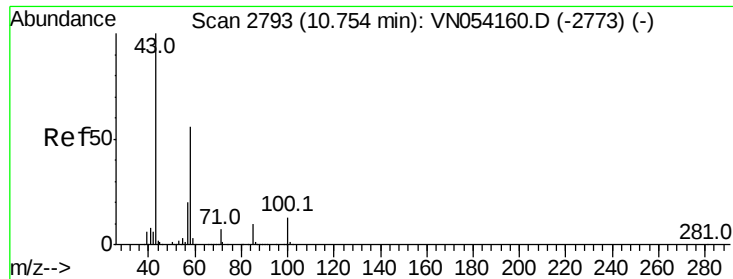
Tgt Ion: 63 Resp: 525624

Ion Ratio Lower Upper

63 100

106 29.9 24.4 36.6





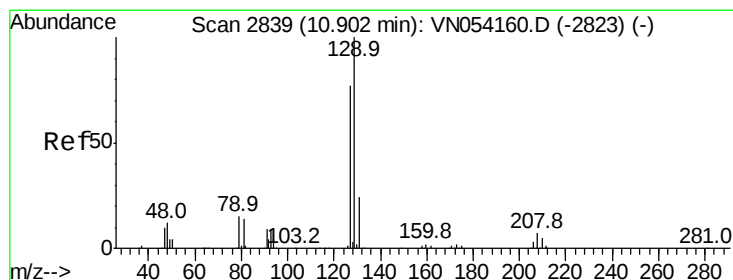
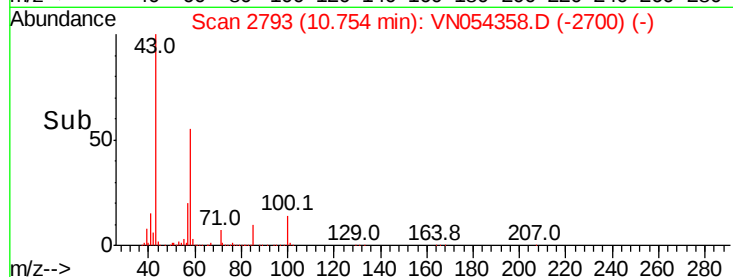
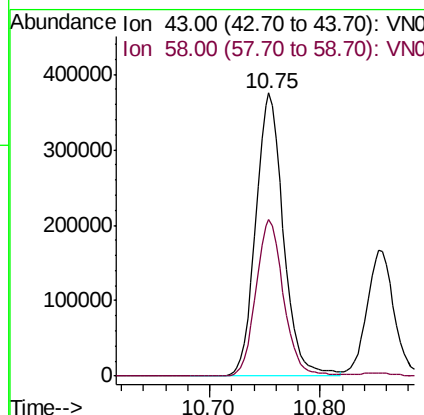
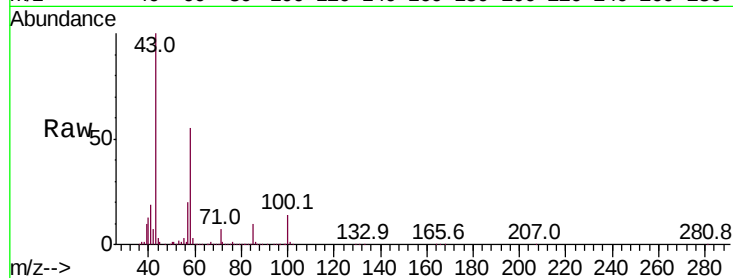
#59
2-Hexanone
Concen: 105.299 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.7	28.0	83.9

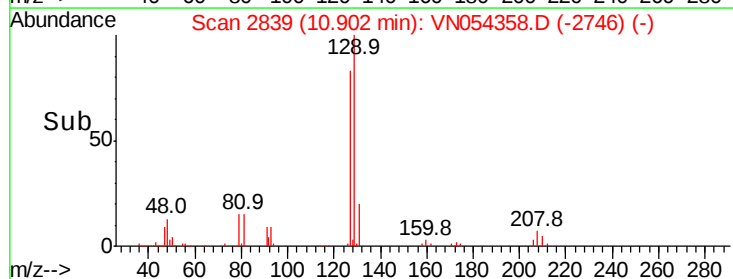
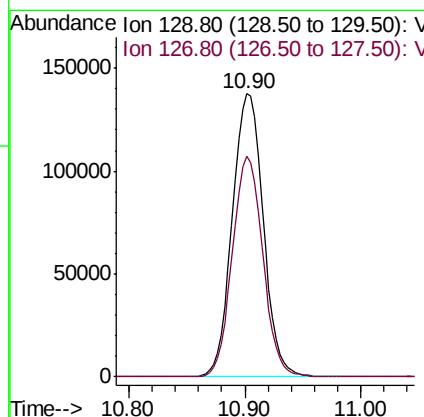
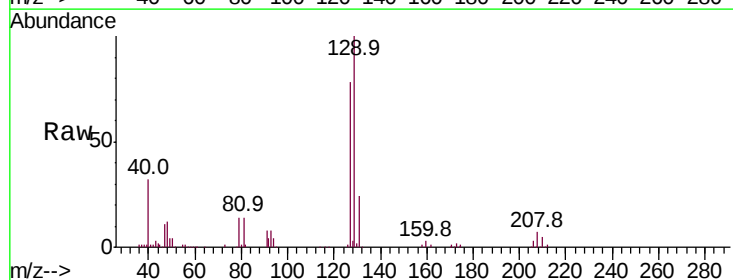
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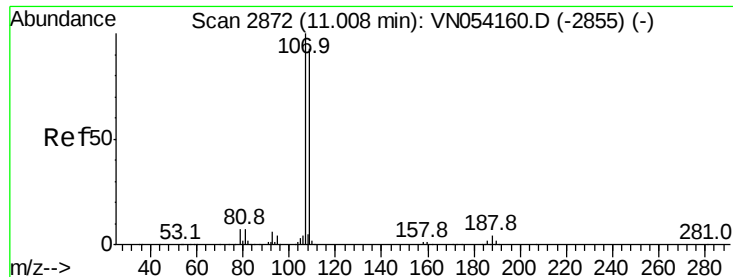
MMDadoda
3/18/2019 11:59:28 AM



#60
Dibromochloromethane
Concen: 19.739 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.6	115.8





#61

1,2-Dibromoethane

Concen: 21.102 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion:107 Resp: 246250

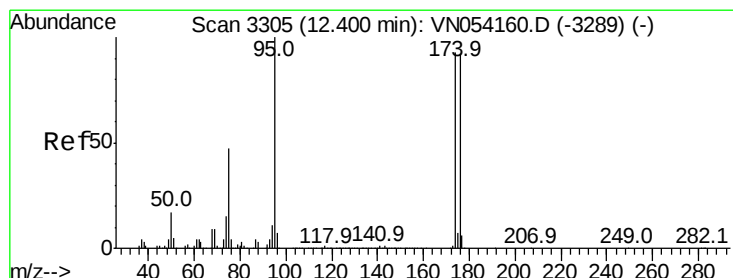
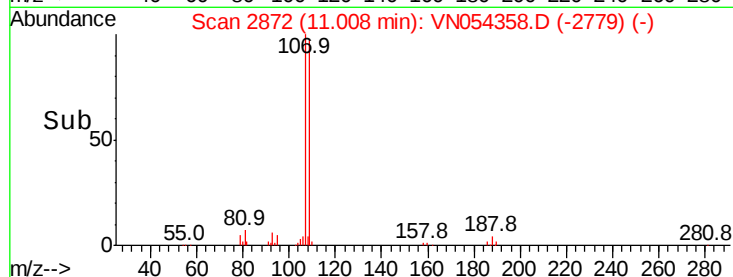
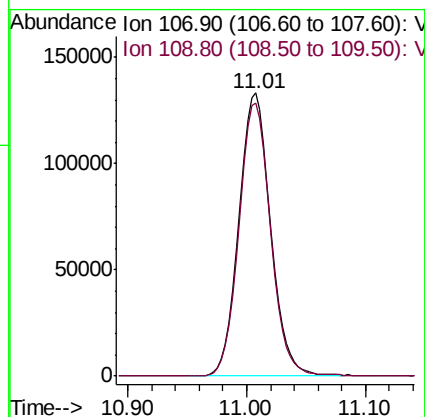
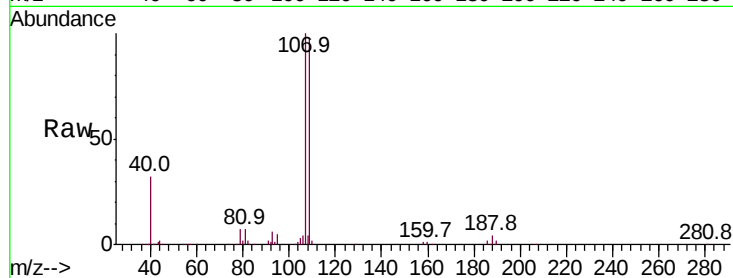
Ion Ratio Lower Upper

107 100

109 96.1 75.9 113.9

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#62

4-Bromofluorobenzene

Concen: 47.392 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

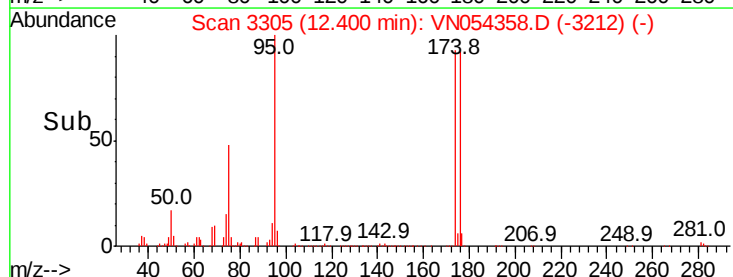
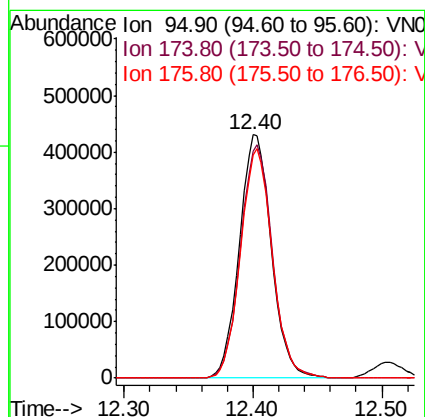
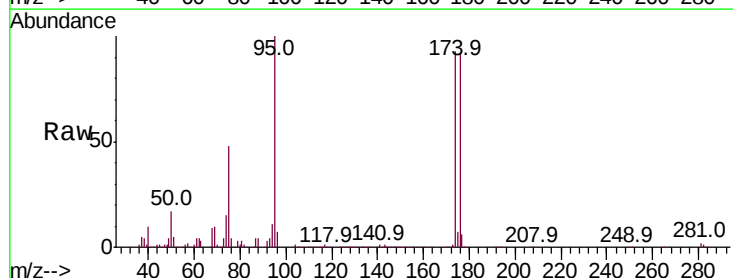
Tgt Ion: 95 Resp: 743401

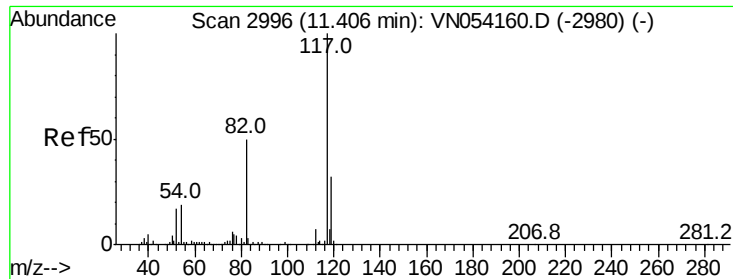
Ion Ratio Lower Upper

95 100

174 95.8 0.0 191.0

176 93.7 0.0 187.4





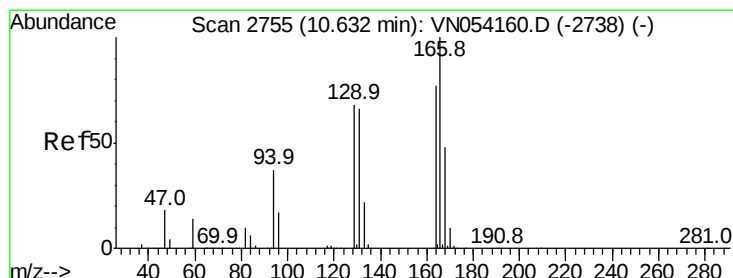
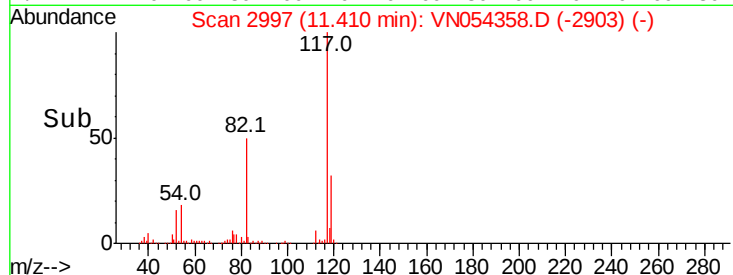
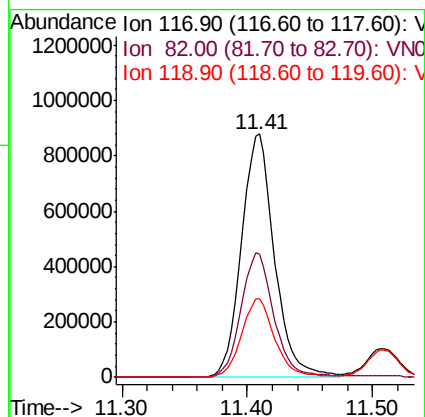
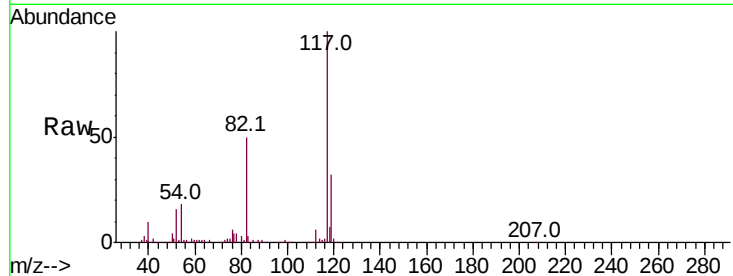
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion:117 Resp: 1612740
Ion Ratio Lower Upper
117 100
82 50.4 40.0 60.0
119 32.4 25.8 38.6

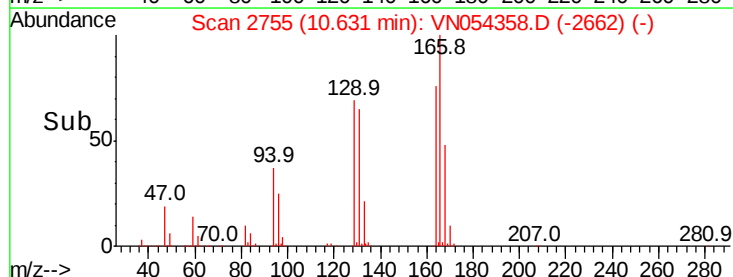
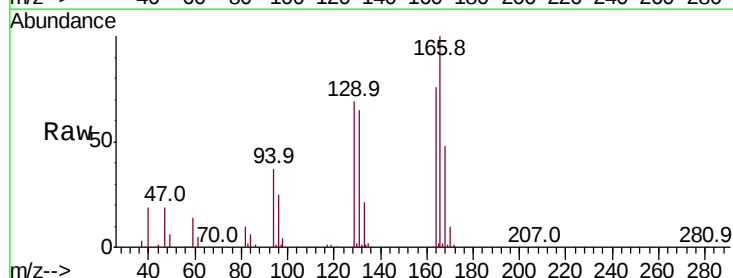
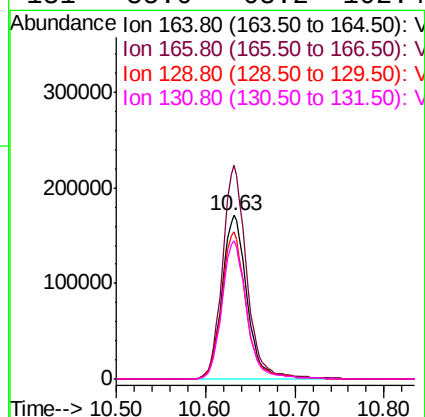
Manual Integrations
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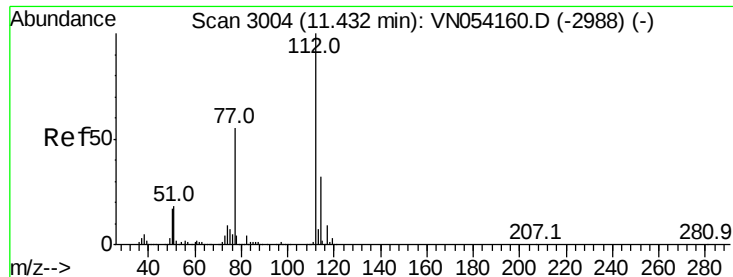
MMDadoda
3/18/2019 11:59:28 AM



#64
Tetrachloroethene
Concen: 21.312 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion:164 Resp: 332315
Ion Ratio Lower Upper
164 100
166 130.8 103.9 155.9
129 90.0 71.1 106.7
131 85.0 68.2 102.4





#65

Chlorobenzene

Concen: 21.325 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion:112 Resp: 755160

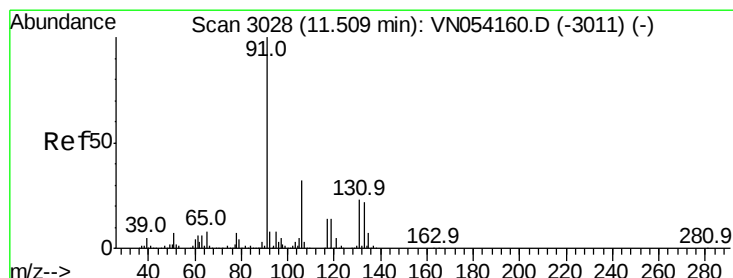
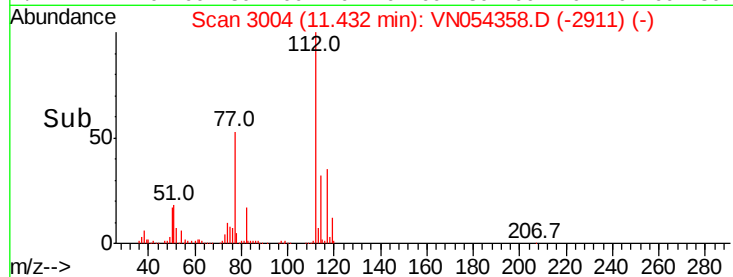
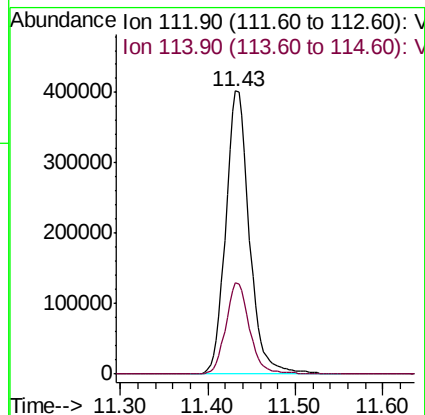
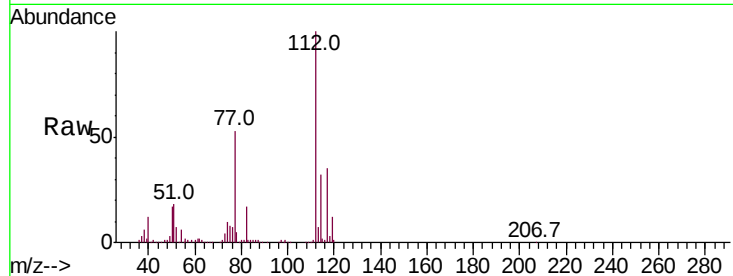
Ion Ratio Lower Upper

112 100

114 32.1 25.9 38.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 21.094 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

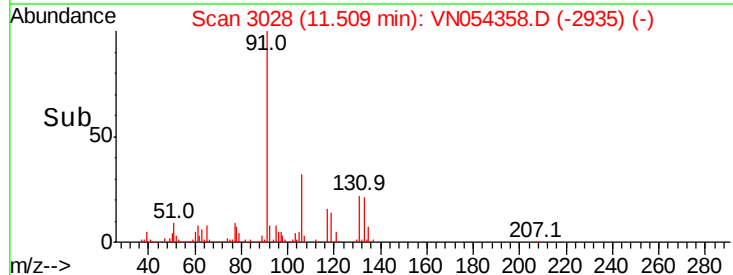
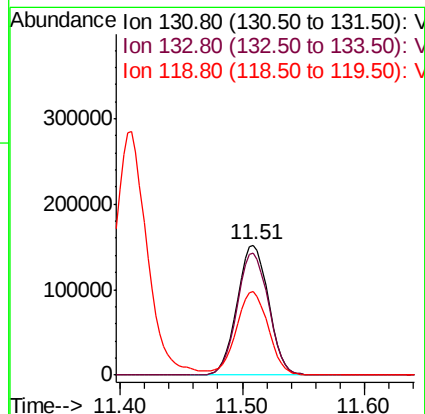
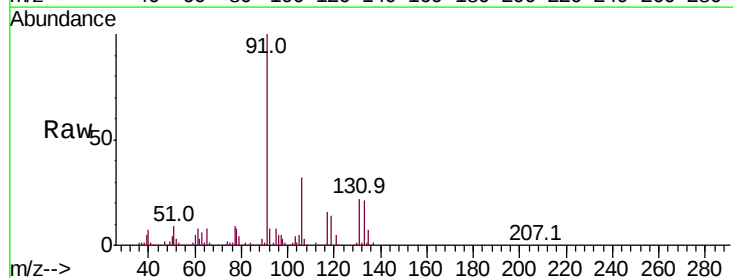
Tgt Ion:131 Resp: 271351

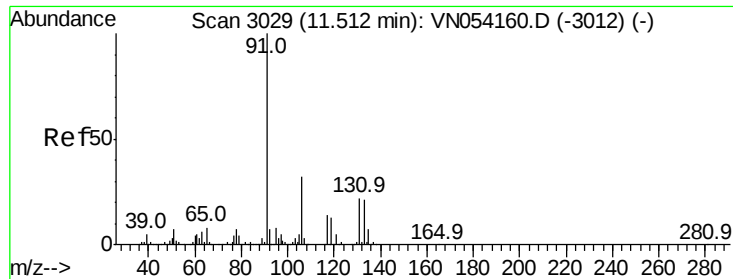
Ion Ratio Lower Upper

131 100

133 94.6 47.6 142.9

119 65.7 32.4 97.0





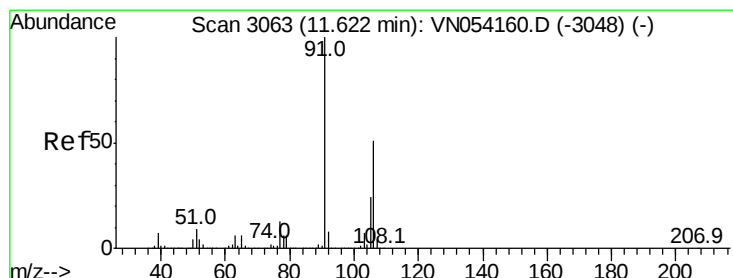
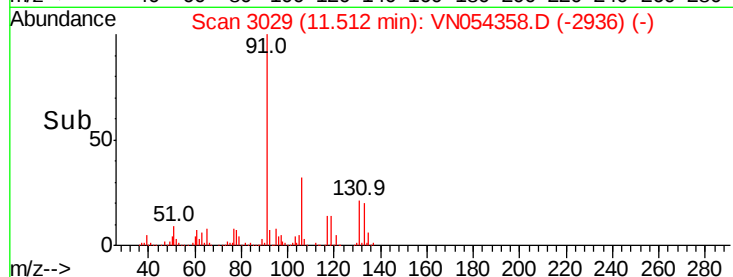
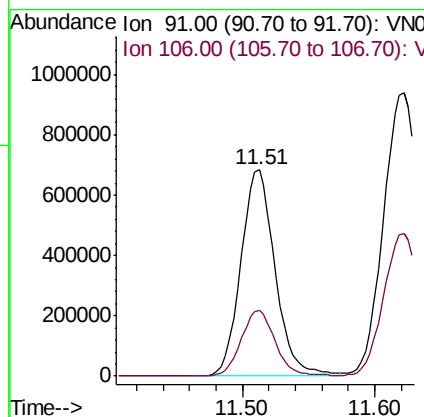
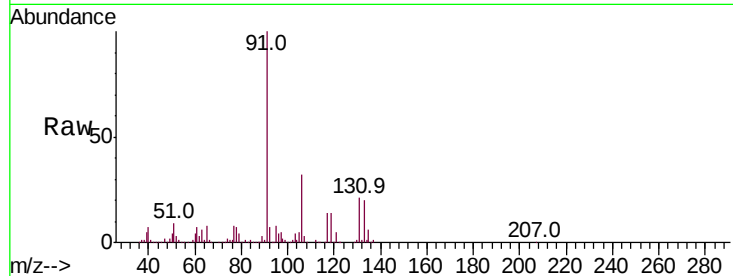
#67
Ethyl Benzene
Concen: 20.965 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleID :
VN0316WBSD02

Tot Ion: 91 Resp: 1230640
Ion Ratio Lower Upper
91 100
106 31.9 25.5 38.3

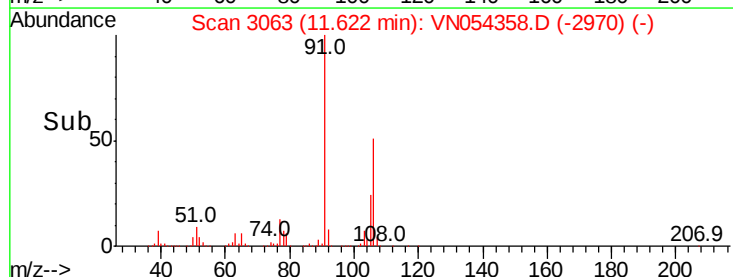
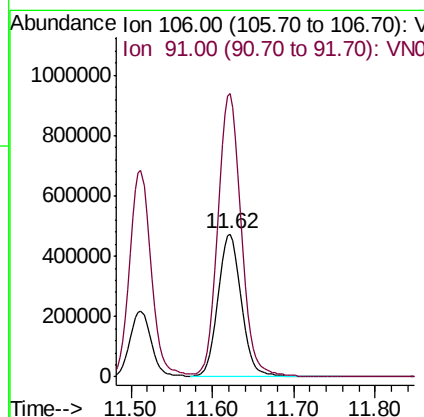
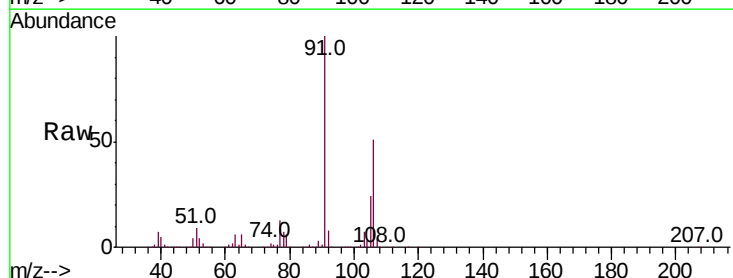
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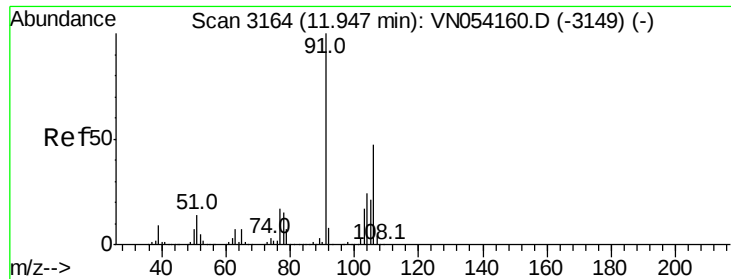
MMDadoda
3/18/2019 11:59:28 AM



#68
m/p-Xylenes
Concen: 42.210 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion: 106 Resp: 968417
Ion Ratio Lower Upper
106 100
91 197.7 159.4 239.2





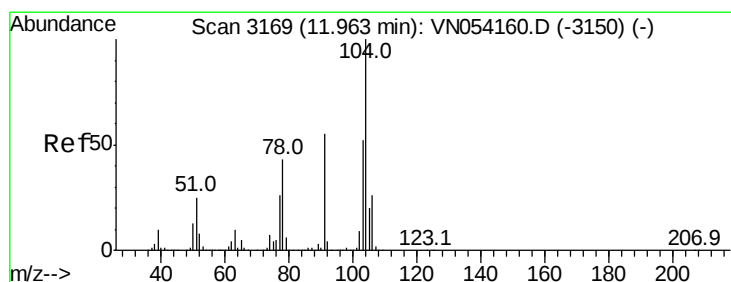
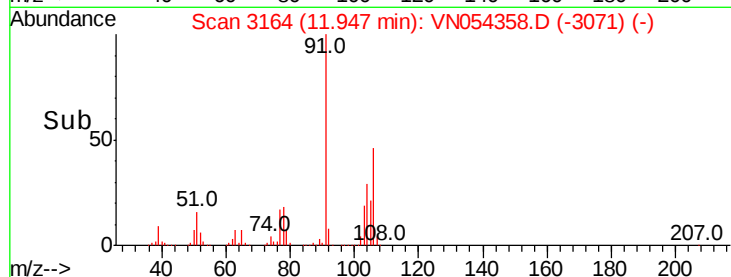
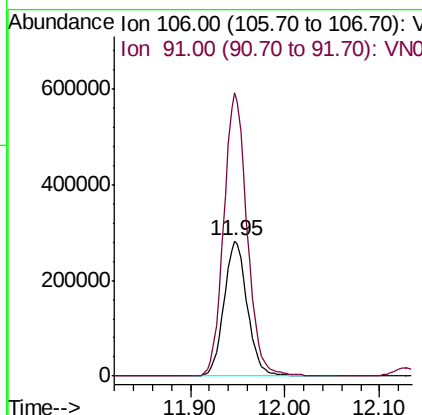
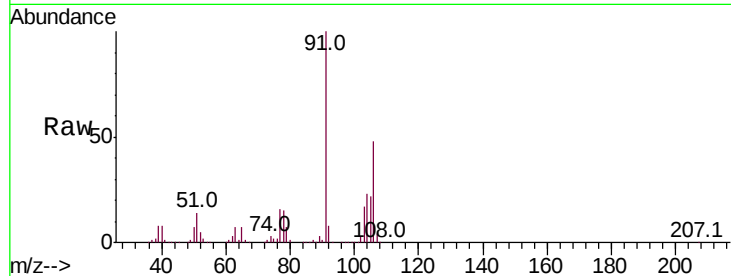
#69
o-Xylene
Concen: 21.605 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion:106 Resp: 483200
Ion Ratio Lower Upper
106 100
91 209.7 105.7 317.1

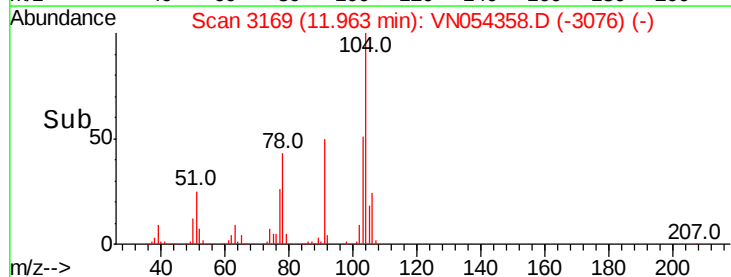
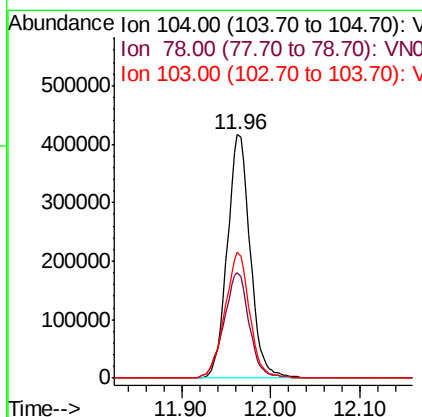
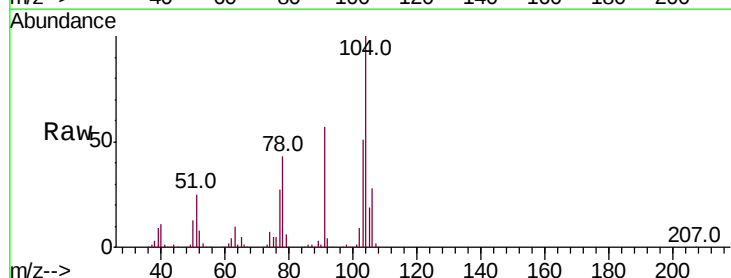
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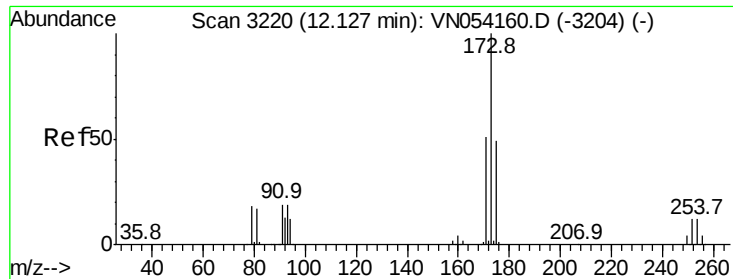
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#70
Styrene
Concen: 21.085 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion:104 Resp: 739595
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.2
103 55.7 44.4 66.6





#71

Bromoform

Concen: 18.041 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion:173 Resp: 161455

Ion Ratio Lower Upper

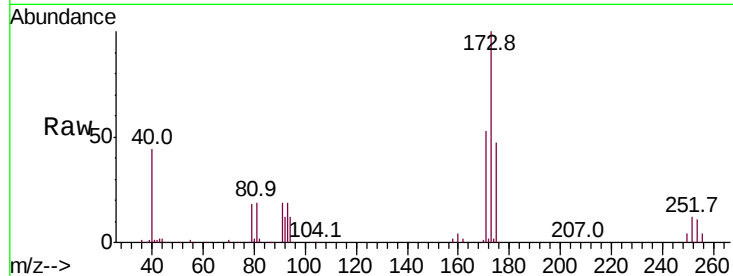
173 100

175 48.0 24.4 73.2

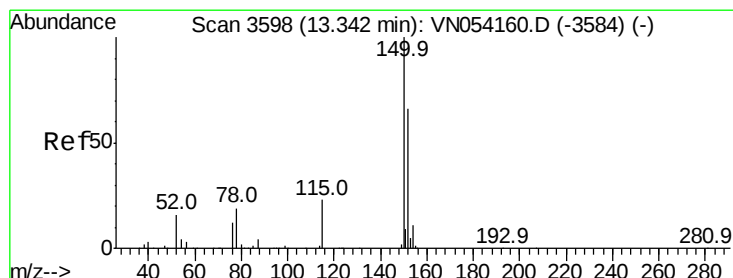
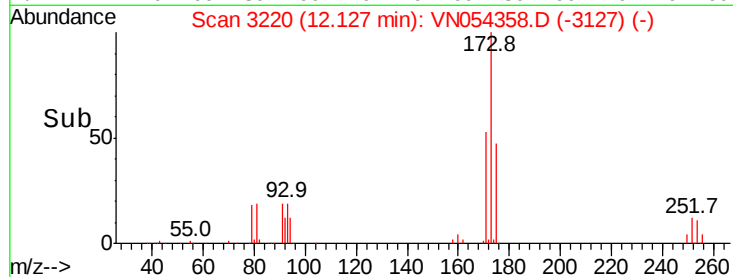
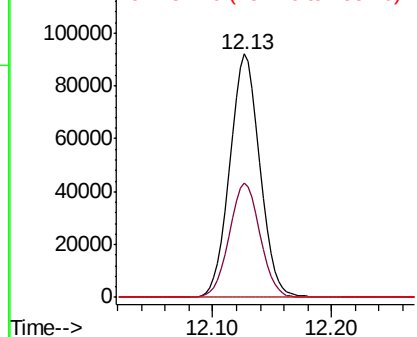
254 0.1 0.1 0.1#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

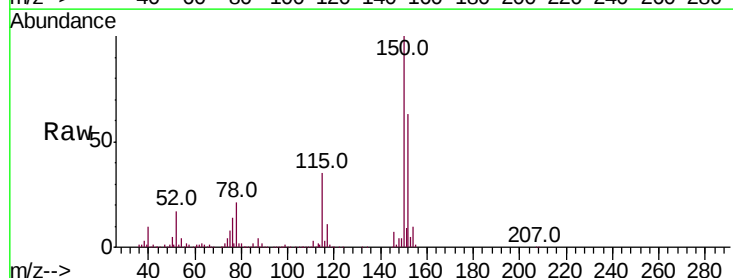
Tgt Ion:152 Resp: 717740

Ion Ratio Lower Upper

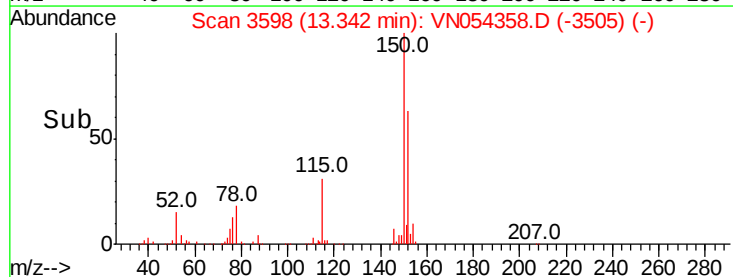
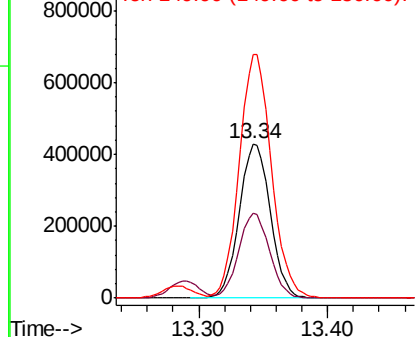
152 100

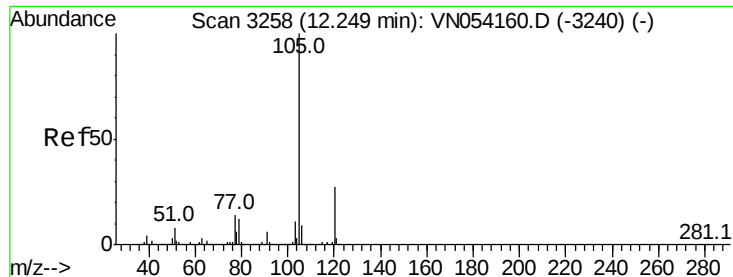
115 54.6 27.2 81.6

150 164.0 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: 21.968 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion:105 Resp: 1261500

Ion Ratio Lower Upper

105 100

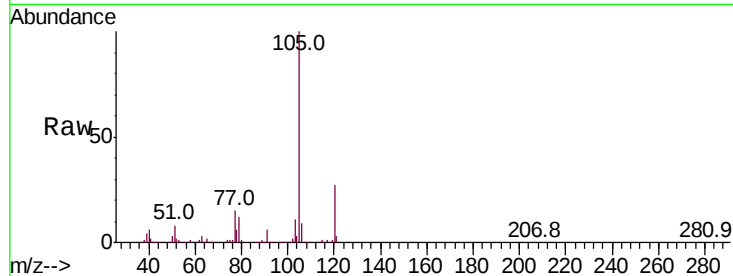
120 27.6 13.8 41.3

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

400000

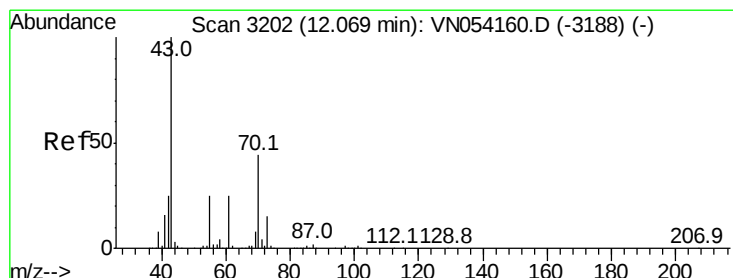
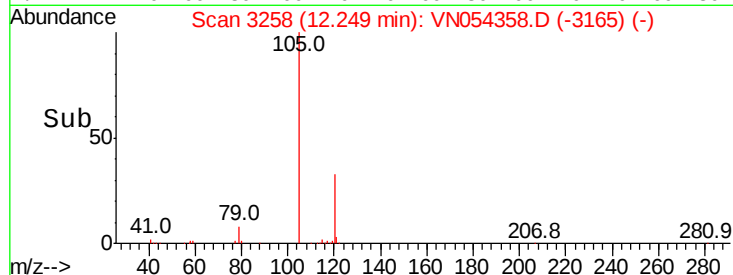
200000

0

12.25

12.30

Time-->



#74

N-ethyl acetate

Concen: 21.712 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion: 43 Resp: 276749

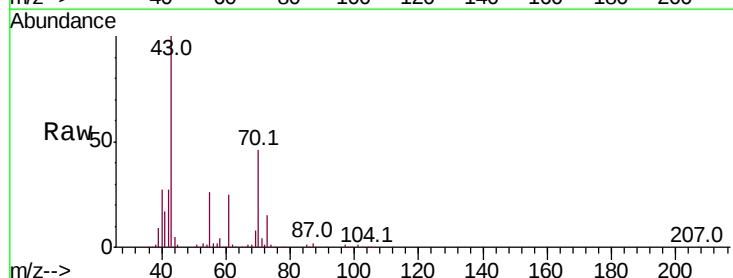
Ion Ratio Lower Upper

43 100

70 45.2 35.4 53.0

55 26.5 19.8 29.6

61 24.9 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

250000

200000

150000

100000

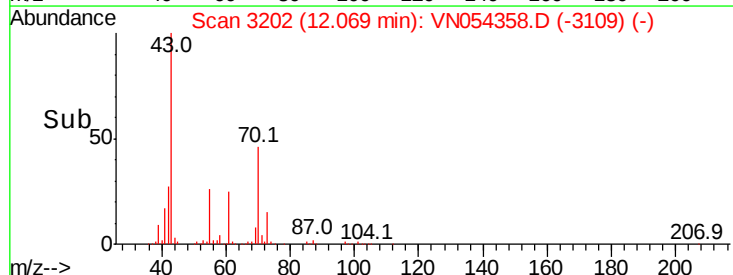
50000

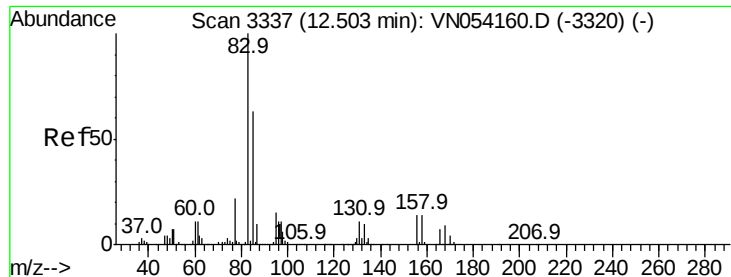
0

12.07

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 23.811 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 83 Resp: 291311
Ion Ratio Lower Upper

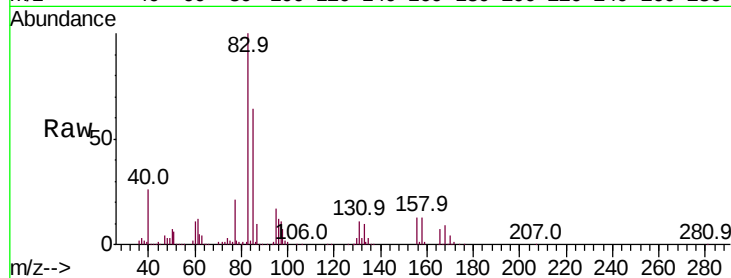
83 100

131 11.8 5.8 17.4

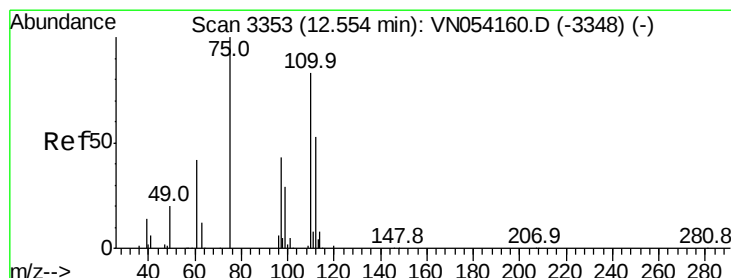
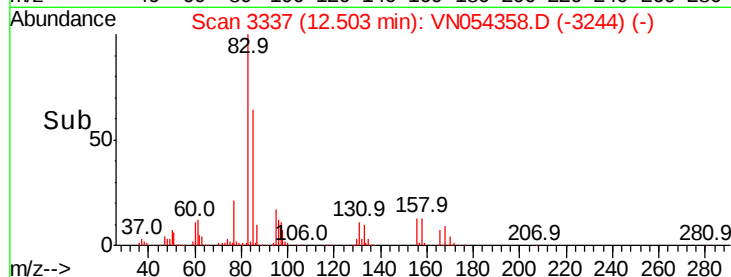
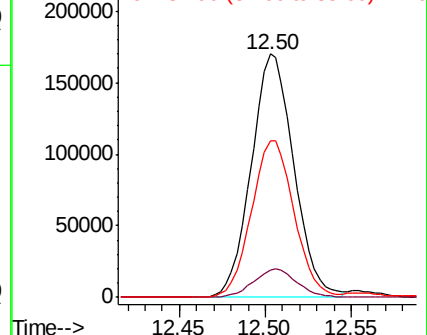
85 64.5 32.2 96.6

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



#76

1,2,3-Trichloropropane

Concen: 24.402 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

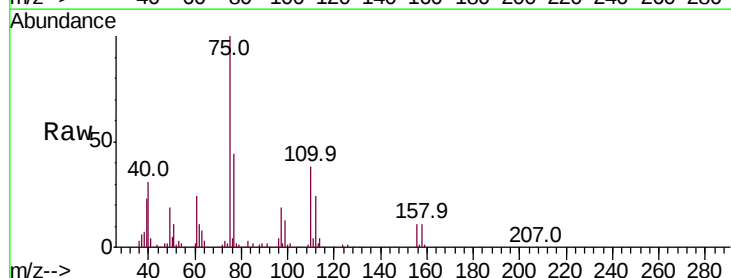
Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

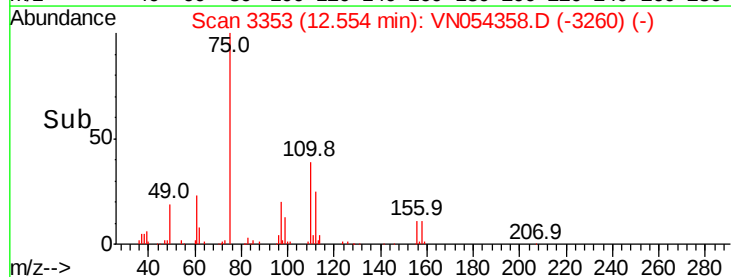
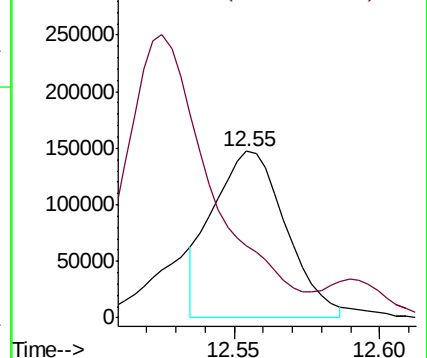
Tgt Ion: 75 Resp: 257553
Ion Ratio Lower Upper

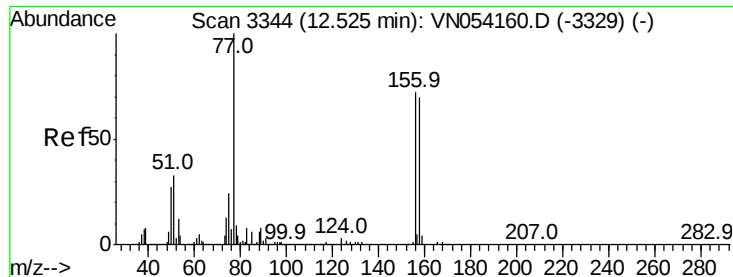
75 100

77 0.0 0.0 0.0



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





#77

Bromobenzene

Concen: 22.017 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

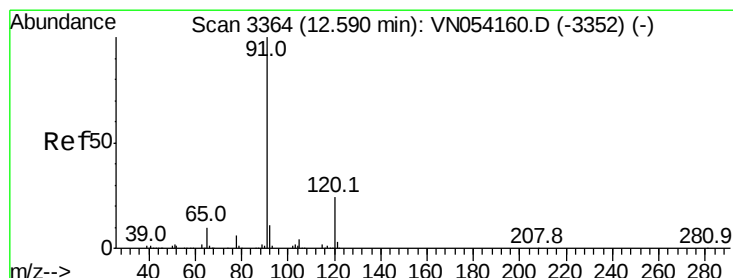
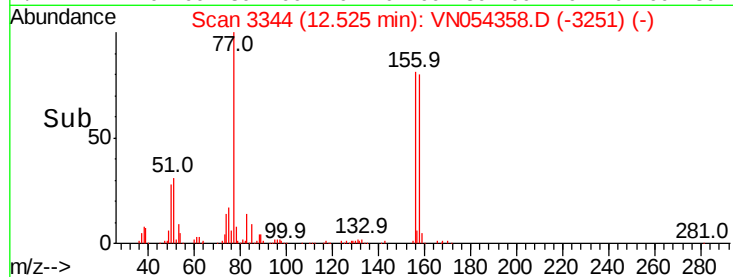
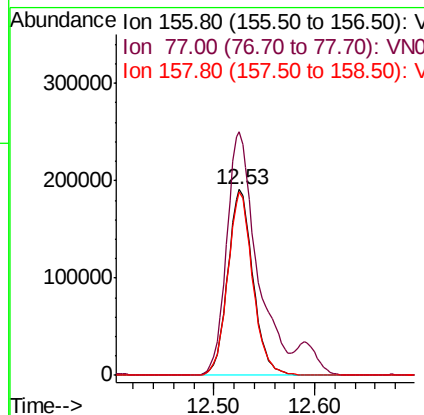
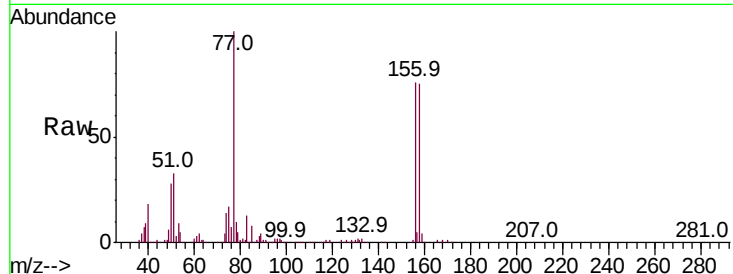
ClientSampleId :

VN0316WBSD02

Tot Ion:	156	Resp:	334552
Ion Ratio	Lower	Upper	
156	100		
77	156.8	81.5	244.4
158	97.9	49.0	147.2

Manual Integrations
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#78

n-propylbenzene

Concen: 21.304 ug/l

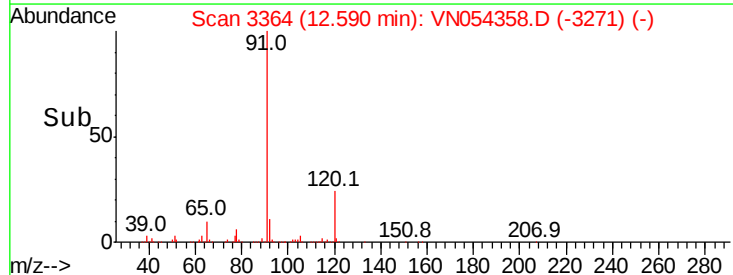
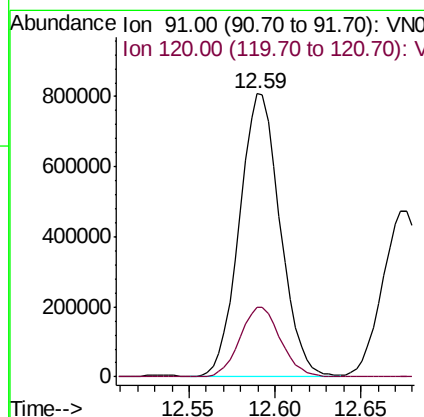
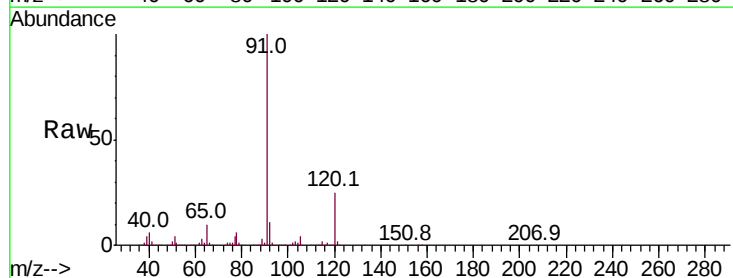
RT: 12.59 min Scan# 3364

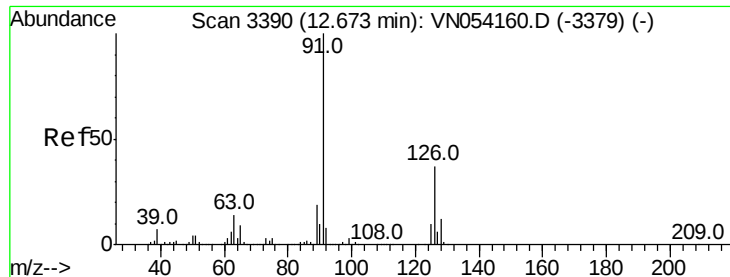
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	91	Resp:	1327435
Ion Ratio	Lower	Upper	
91	100		
120	24.8	12.3	36.9





#79

2-Chlorotoluene

Concen: 21.805 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion: 91 Resp: 816892

Ion Ratio Lower Upper

91 100

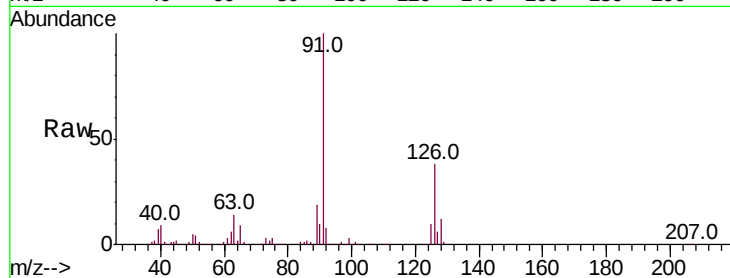
126 37.7 18.7 56.1

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Abundance Ion 91.00 (90.70 to 91.70): VN054160.D (-3379) (-)

Ion 125.90 (125.60 to 126.60): VN054160.D (-3379) (-)

600000

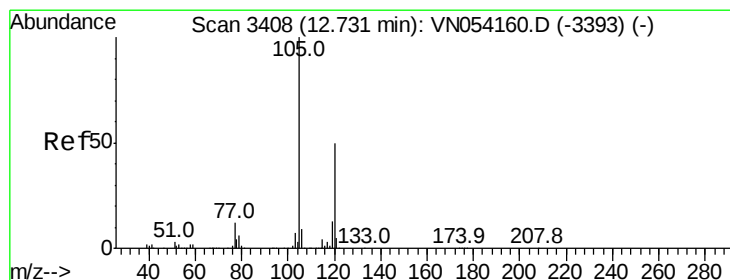
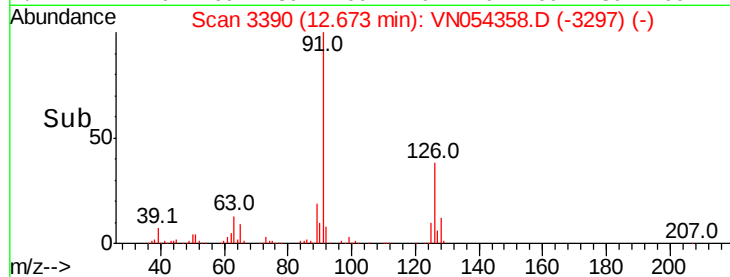
400000

200000

0

12.65 12.67 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.318 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054358.D

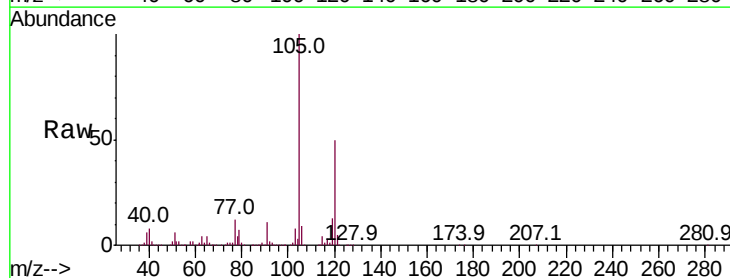
Acq: 17 Mar 2019 1:53

Tgt Ion:105 Resp: 1018231

Ion Ratio Lower Upper

105 100

120 50.2 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054160.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN054160.D (-3393) (-)

600000

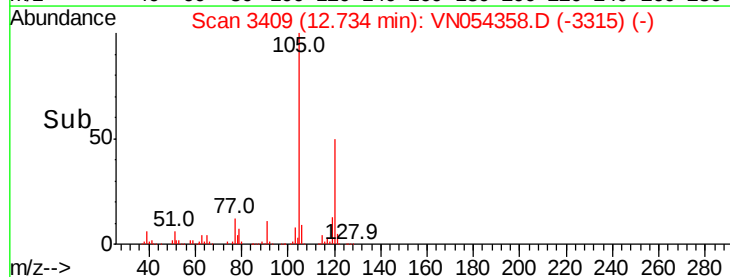
400000

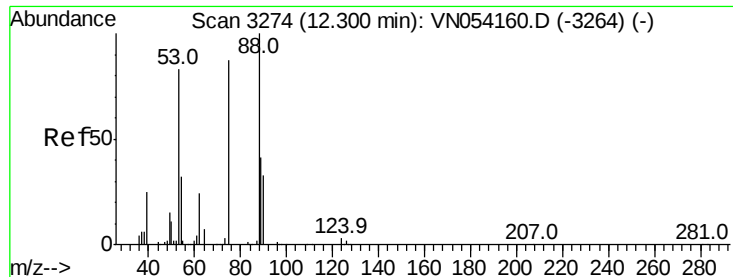
200000

0

12.70 12.73 12.80

Time-->





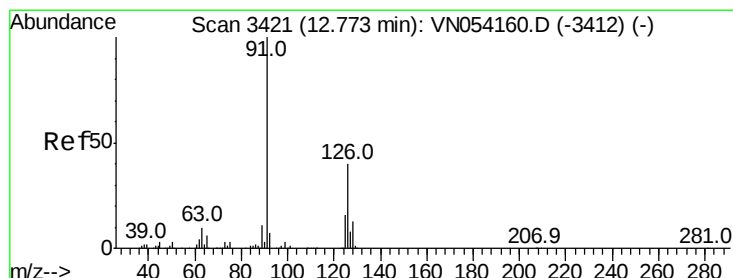
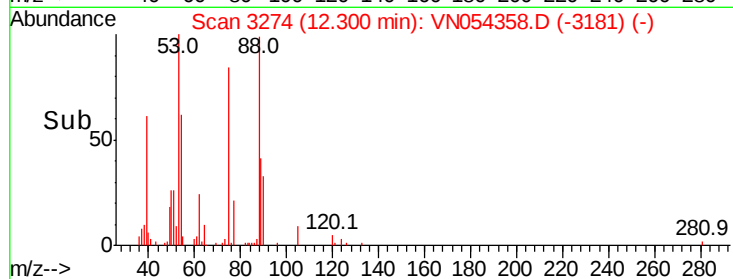
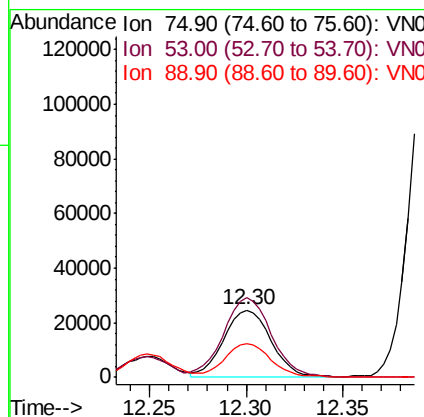
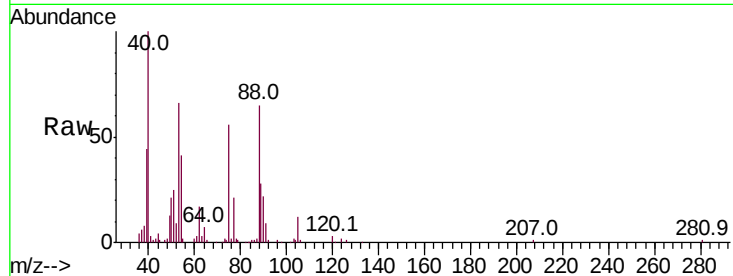
#81
trans-1,4-Dichloro-2-butene
Concen: 13.570 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	119.3	76.2	114.2#
89	49.6	39.2	58.8

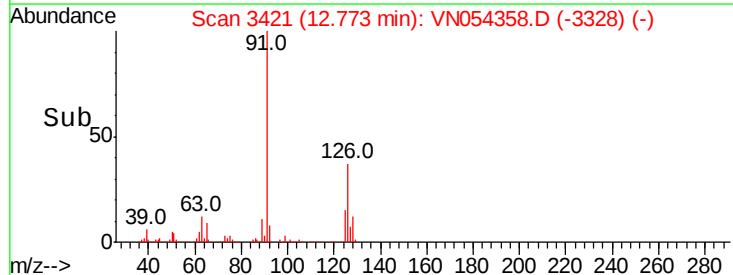
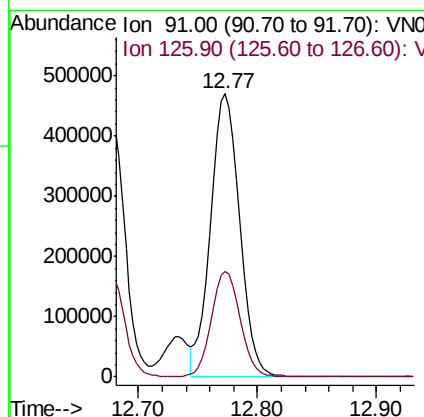
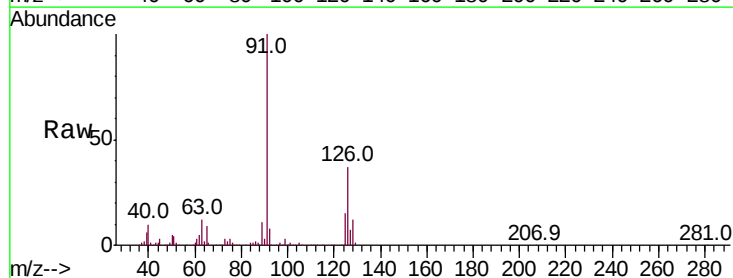
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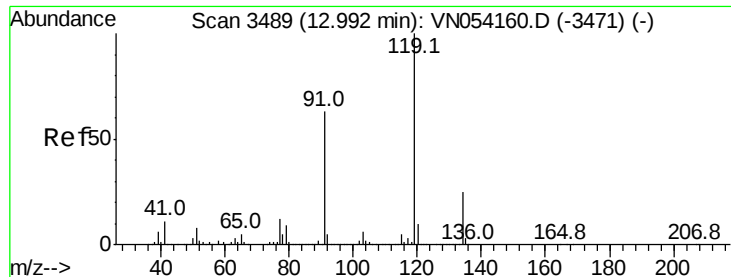
MMDadoda
3/18/2019 11:59:28 AM



#82
4-Chlorotoluene
Concen: 21.316 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054358.D
Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.1	54.1





#83

tert-Butylbenzene

Concen: 21.725 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

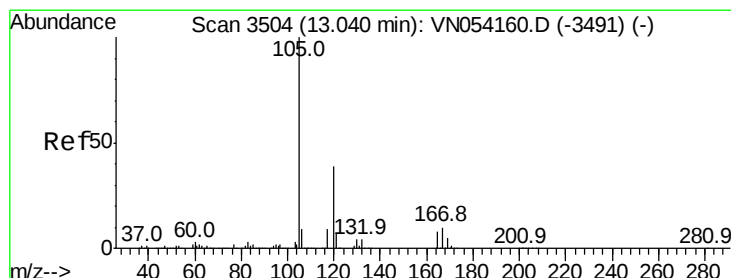
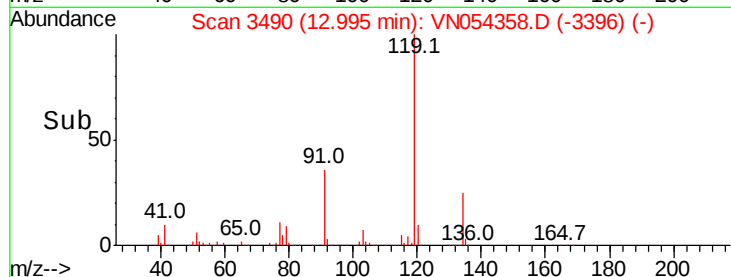
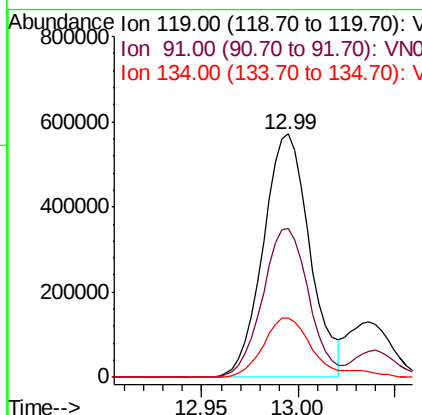
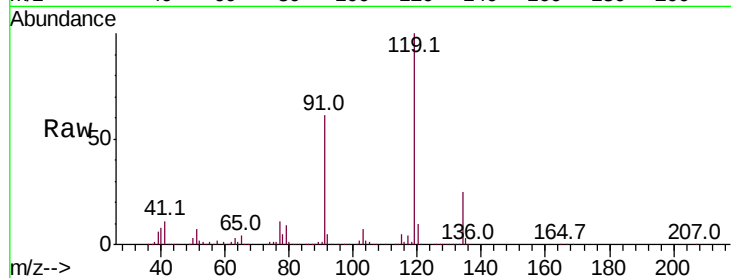
ClientSampleId :

VN0316WBSD02

Tot Ion:	119	Resp:	955128
Ion Ratio	Lower	Upper	
119	100		
91	61.2	30.9	92.8
134	25.0	13.2	39.6

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#84

1,2,4-Trimethylbenzene

Concen: 21.652 ug/l

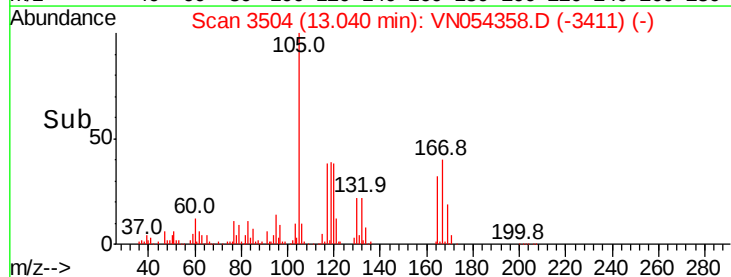
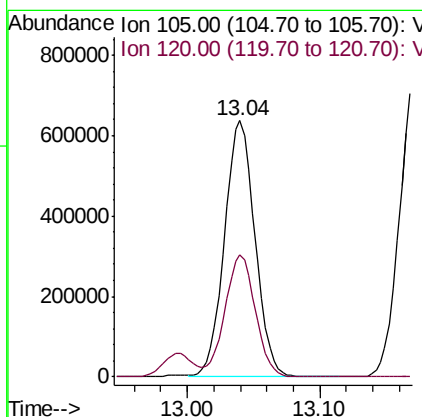
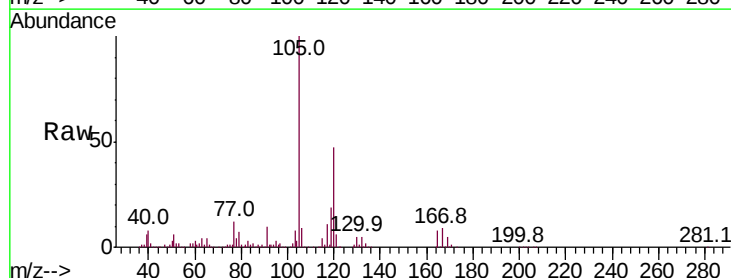
RT: 13.04 min Scan# 3504

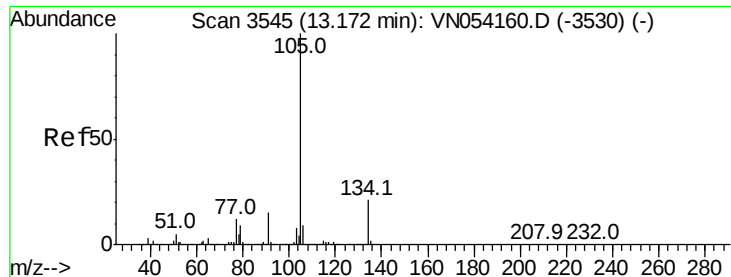
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	105	Resp:	1014573
Ion Ratio	Lower	Upper	
105	100		
120	47.7	23.4	70.3





#85

sec-Butylbenzene

Concen: 20.886 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

ClientSampleId :

VN0316WBSD02

Tot Ion:105 Resp: 1190841

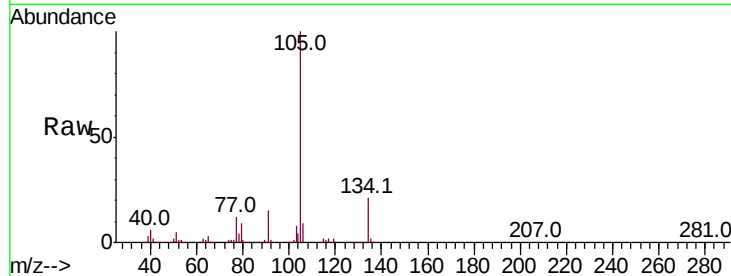
Ion Ratio Lower Upper

105 100

134 21.3 10.7 32.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

800000

600000

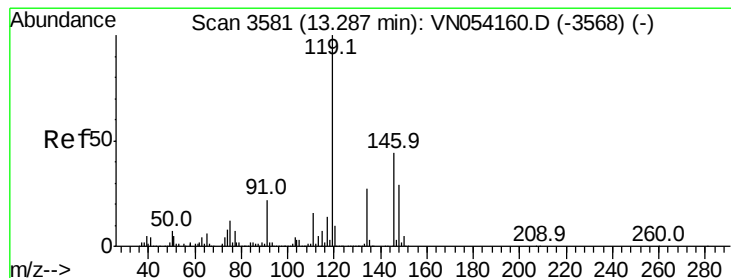
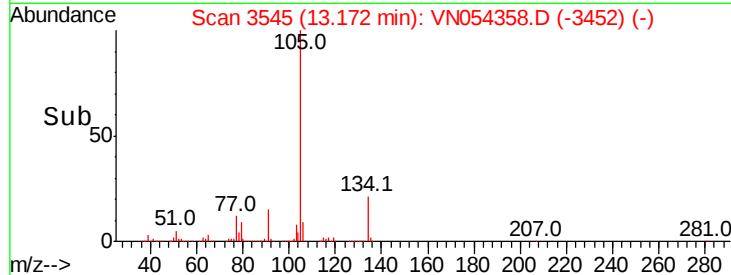
400000

200000

0

13.10 13.15 13.20 13.25

Time-->



#86

p-Isopropyltoluene

Concen: 20.401 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

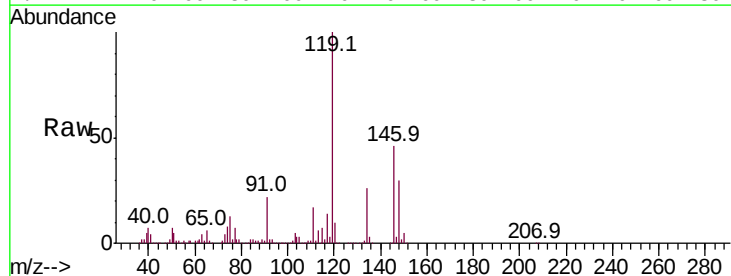
Tgt Ion:119 Resp: 1020457

Ion Ratio Lower Upper

119 100

134 27.0 13.6 40.8

91 22.2 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

800000

600000

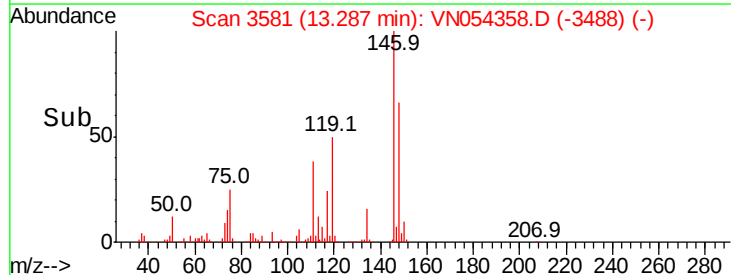
400000

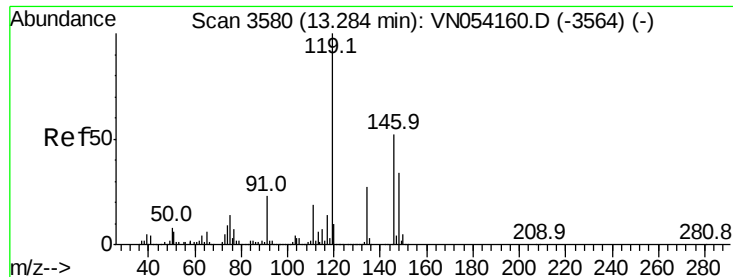
200000

0

13.20 13.25 13.30 13.35

Time-->





#87

1,3-Dichlorobenzene

Concen: 21.278 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN054358.D

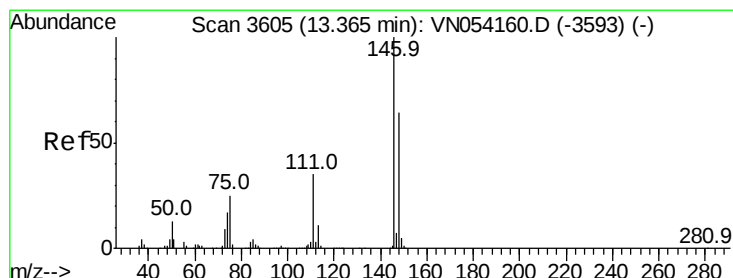
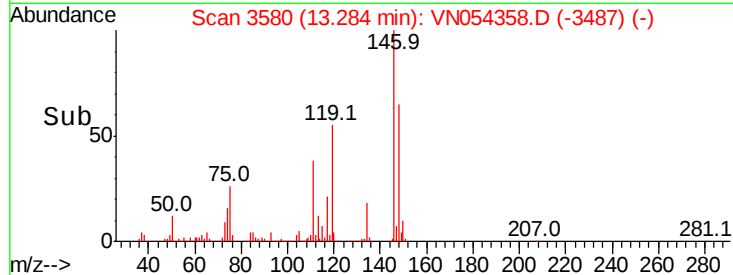
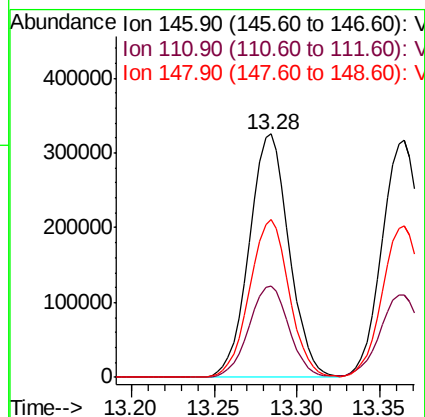
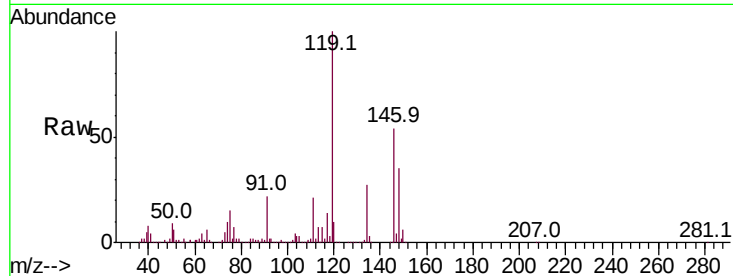
Acq: 17 Mar 2019 1:53

Instrument :
MSVOA_N
ClientSampleId :
VN0316WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	544810		
111	37.8	18.8	56.3	
148	64.5	32.2	96.6	

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#88

1,4-Dichlorobenzene

Concen: 21.051 ug/l

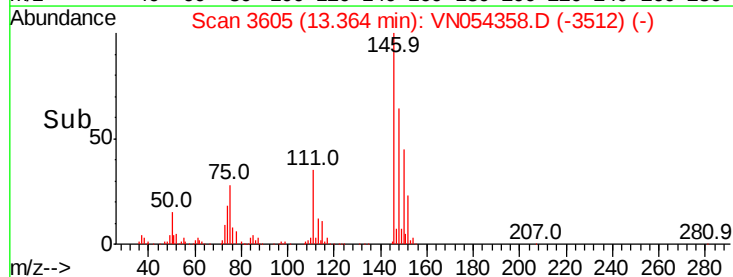
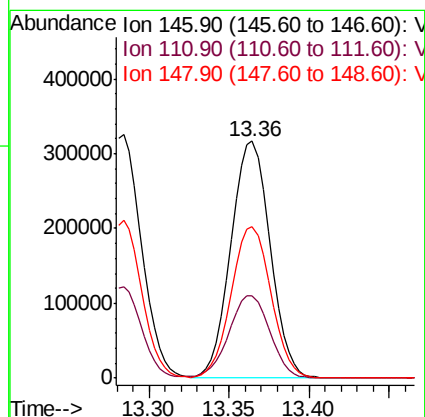
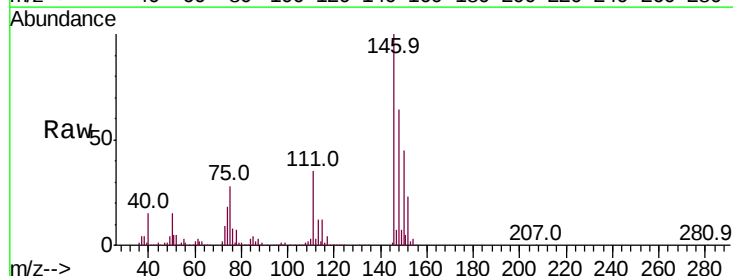
RT: 13.36 min Scan# 3605

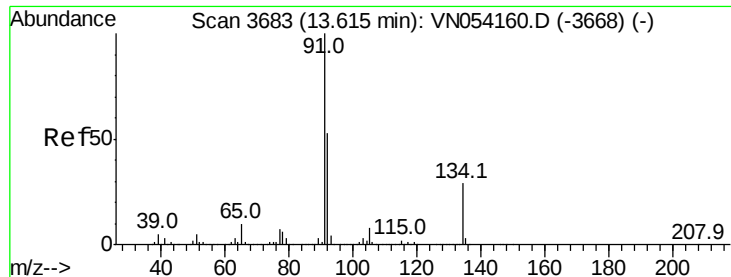
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	529483		
111	36.3	18.1	54.1	
148	65.0	32.0	96.0	





#89

n-Butylbenzene

Concen: 18.722 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

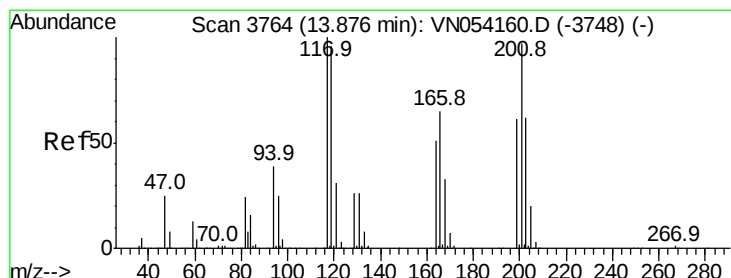
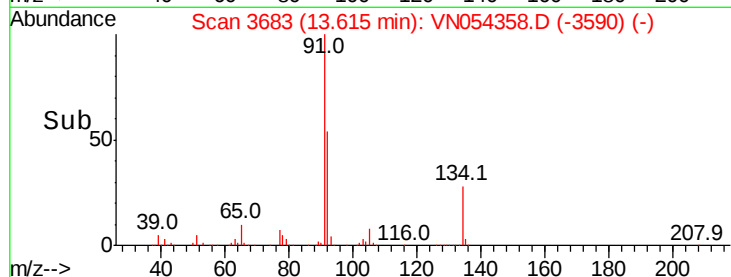
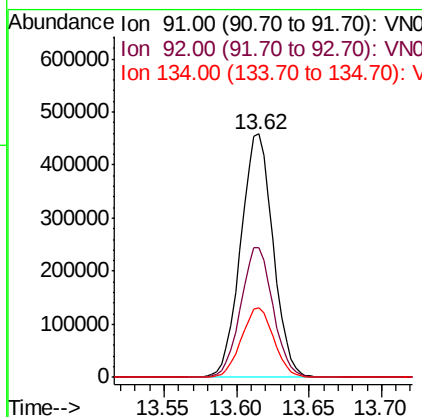
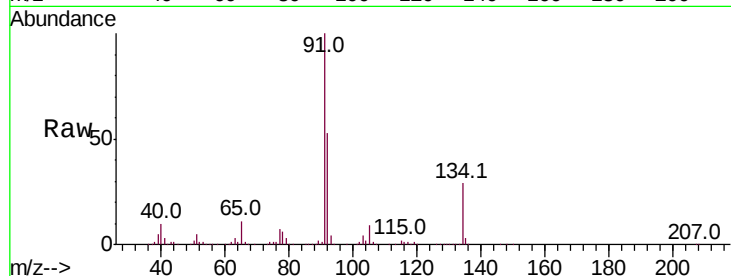
ClientSampleId :

VN0316WBSD02

Tot Ion:	91	Resp:	711530
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.2	78.6
134	28.6	14.3	42.9

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#90

Hexachloroethane

Concen: 18.316 ug/l

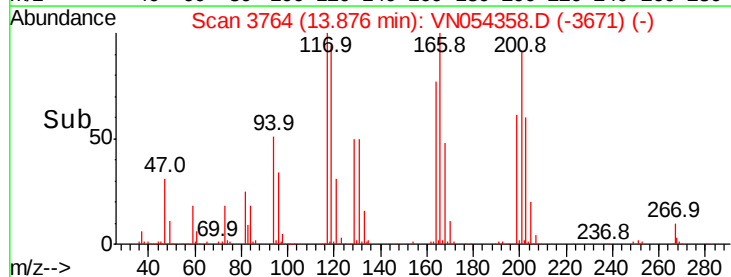
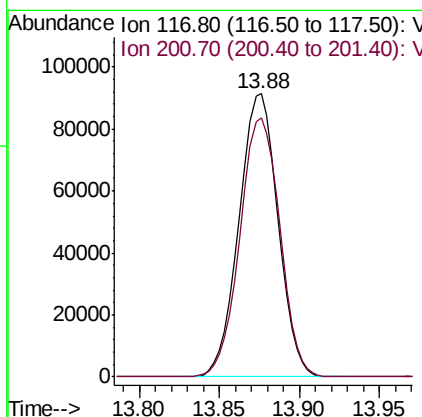
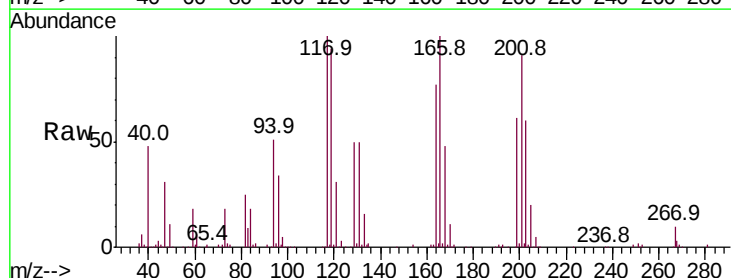
RT: 13.88 min Scan# 3764

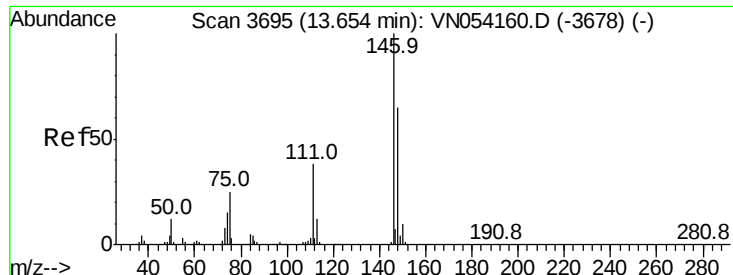
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	117	Resp:	151701
Ion Ratio	Lower	Upper	
117	100		
201	93.9	48.1	144.4





#91

1,2-Dichlorobenzene

Concen: 22.324 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

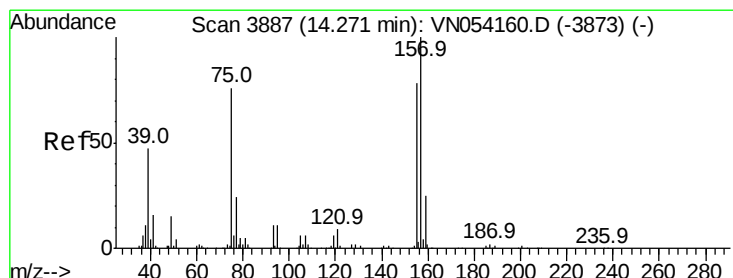
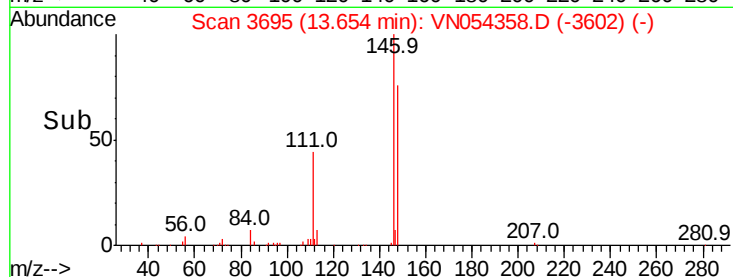
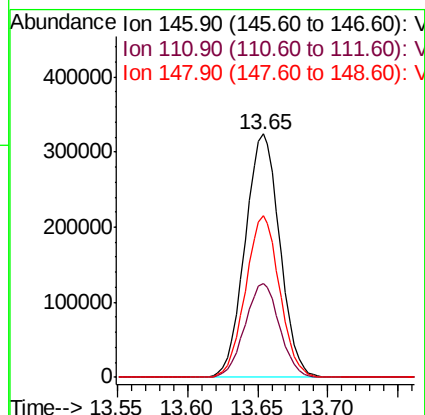
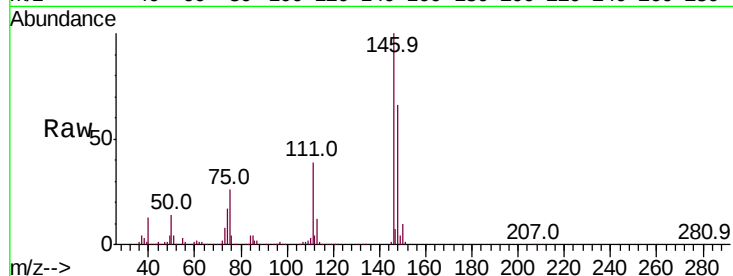
ClientSampleId :

VN0316WBSD02

Tot Ion:	146	Resp:	558792
Ion Ratio	Lower	Upper	
146	100		
111	38.5	19.1	57.3
148	65.1	32.4	97.0

Manual Integrations
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3/18/2019 11:59:28 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.088 ug/l

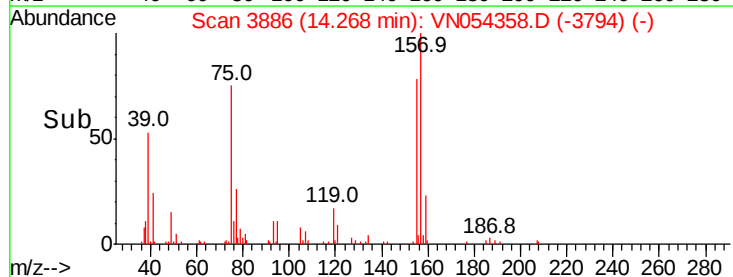
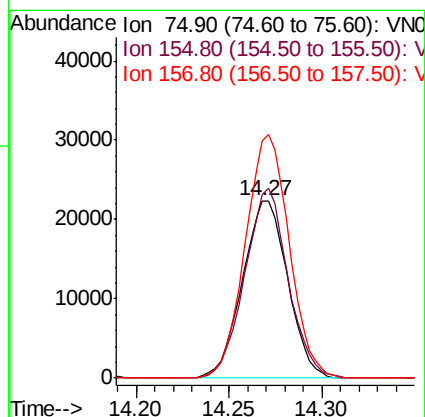
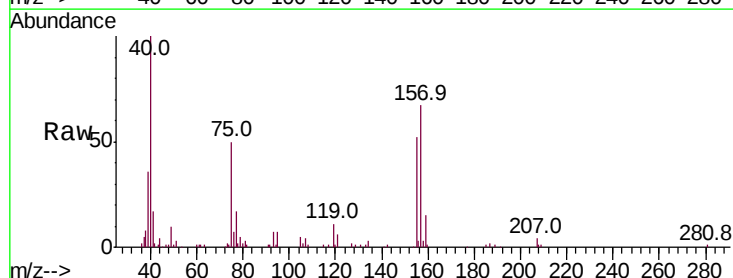
RT: 14.27 min Scan# 3886

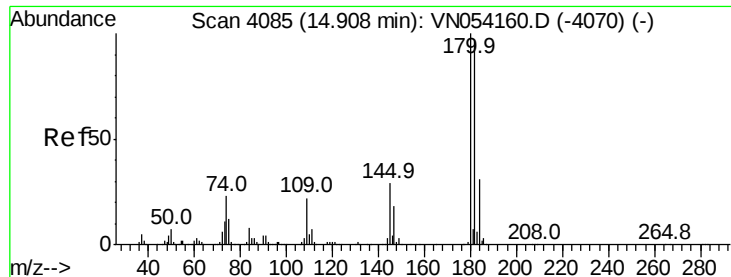
Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	75	Resp:	38030
Ion Ratio	Lower	Upper	
75	100		
155	102.4	50.1	150.3
157	133.3	63.1	189.3





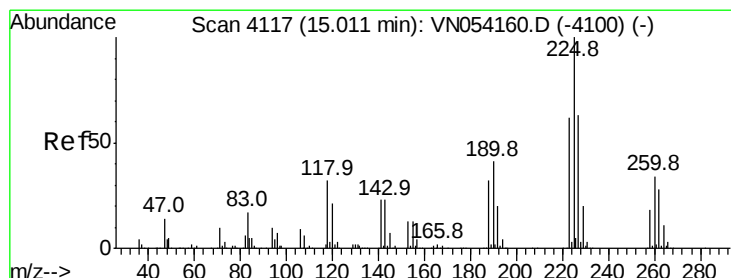
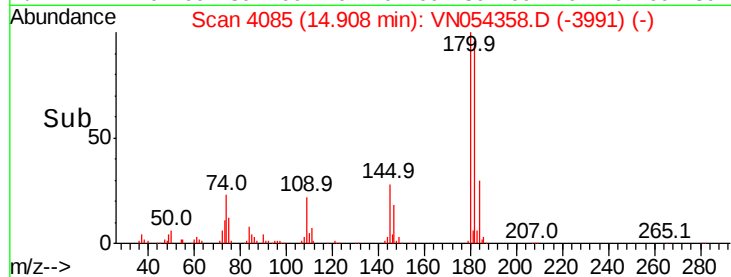
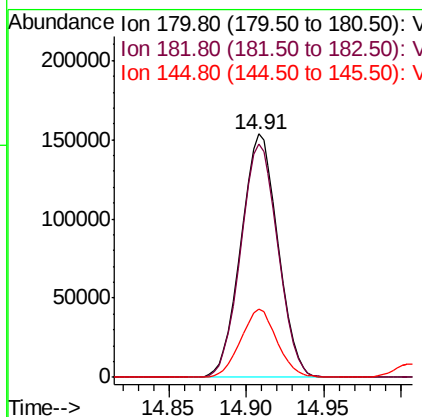
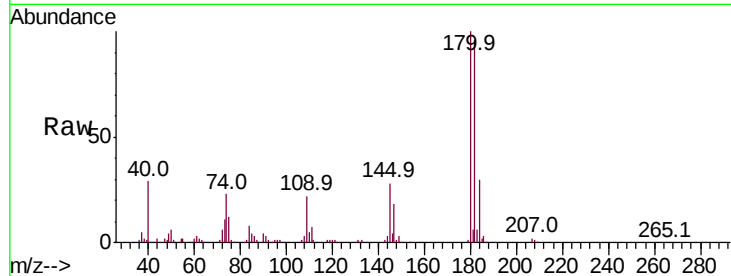
#93
 1,2,4-Trichlorobenzene
 Concen: 18.535 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Instrument :
 MSVOA_N
 ClientSampled :
 VN0316WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.5	48.0	144.2	
145	27.4	14.2	42.8	

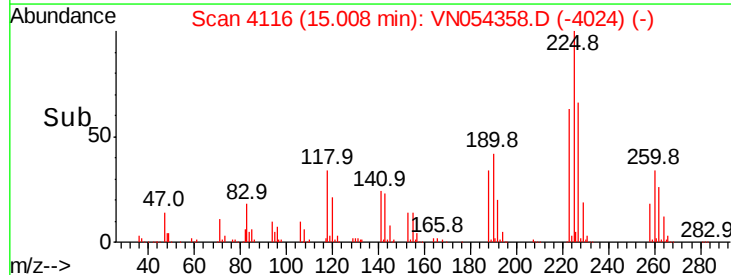
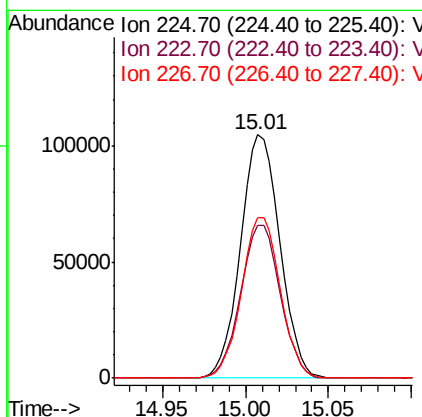
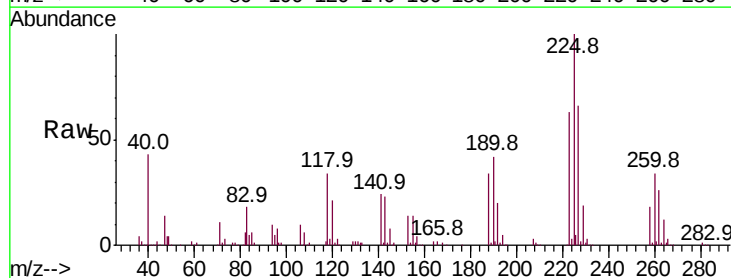
Manual Integrations
 APPROVED

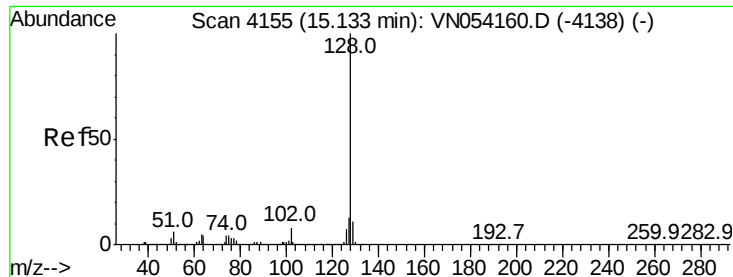
MMDadoda
 3/18/2019 11:59:28 AM



#94
 Hexachlorobutadiene
 Concen: 18.137 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054358.D
 Acq: 17 Mar 2019 1:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.3	31.1	93.5	
227	65.1	31.9	95.9	





#95

Naphthalene

Concen: 20.224 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Instrument :

MSVOA_N

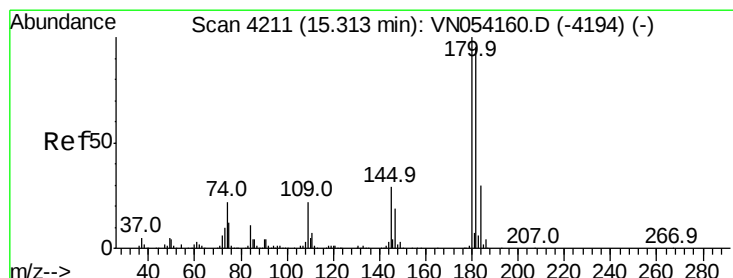
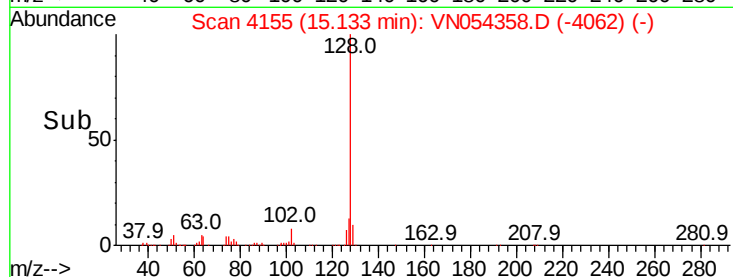
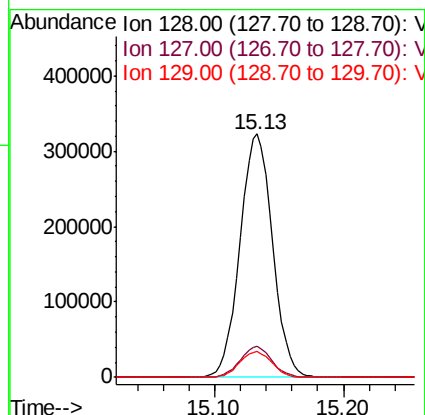
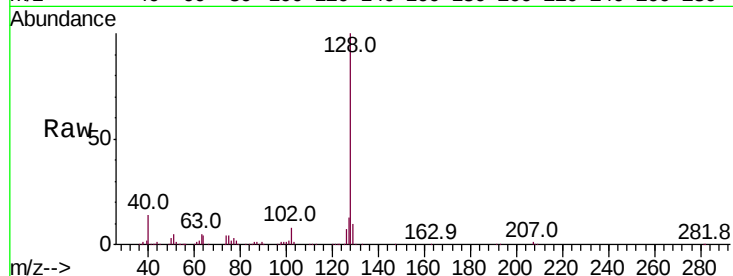
ClientSampleId :

VN0316WBSD02

Tot Ion:	128	Resp:	566747
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.1	15.1
129	10.6	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/18/2019 11:59:28 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.670 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054358.D

Acq: 17 Mar 2019 1:53

Tgt Ion:	180	Resp:	274894
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.5	142.6
145	29.3	14.8	44.3

