

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051319\
 Data File : VN055574.D
 Acq On : 13 May 2019 12:53
 Operator : JC/SP
 Sample : VN0513MBSD01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/14/2019 9:42:36 AM

Quant Time: May 14 02:29:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N050819W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 10 06:48:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	733481	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1263511	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1122483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	461856	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	515739	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	
35) Dibromofluoromethane	7.59	113	404078	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
50) Toluene-d8	10.09	98	1562301	49.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.40	95	540793	50.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	126639	16.958	ug/l	98
3) Chloromethane	2.06	50	201827	16.636	ug/l	98
4) Vinyl Chloride	2.19	62	202719	17.701	ug/l	100
5) Bromomethane	2.57	94	122082	19.456	ug/l	100
6) Chloroethane	2.71	64	125442	18.805	ug/l	99
7) Trichlorofluoromethane	3.02	101	237377	18.894	ug/l	100
8) Diethyl Ether	3.41	74	110465	19.578	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	3.76	101	154719	19.356	ug/l	98
10) Methyl Iodide	3.95	142	181535	16.803	ug/l	99
11) Tert butyl alcohol	4.80	59	111034	68.093	ug/l	96
12) 1,1-Dichloroethene	3.73	96	154136	19.227	ug/l	98
13) Acrolein	3.61	56	92011	84.666	ug/l	99
14) Allyl chloride	4.32	41	291203	17.733	ug/l	98
15) Acrylonitrile	4.99	53	441734	87.486	ug/l	99
16) Acetone	3.82	43	377149	73.754	ug/l	97
17) Carbon Disulfide	4.05	76	383079	17.509	ug/l	98
18) Methyl Acetate	4.33	43	191052	17.076	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	503862	18.916	ug/l	97
20) Methylene Chloride	4.55	84	186564	17.842	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	166851	19.197	ug/l	94
22) Diisopropyl ether	5.96	45	627115	18.792	ug/l	97
23) Vinyl Acetate	5.90	43	2308360	89.446	ug/l	99
24) 1,1-Dichloroethane	5.85	63	339170	18.828	ug/l	99
25) 2-Butanone	6.84	43	566775	80.236	ug/l	99
26) 2,2-Dichloropropane	6.82	77	209143	18.624	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	195991	19.512	ug/l	98
28) Bromochloromethane	7.19	49	182537	19.512	ug/l	94
29) Tetrahydrofuran	7.22	42	385351	82.520	ug/l	98
30) Chloroform	7.37	83	316260	18.991	ug/l	97
31) Cyclohexane	7.65	56	321753	18.052	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	244636	19.291	ug/l	100
36) 1,1-Dichloropropene	7.79	75	240465	19.318	ug/l	98
37) Ethyl Acetate	6.93	43	238179	17.541	ug/l	99
38) Carbon Tetrachloride	7.77	117	197820	18.873	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	278715	18.364	ug/l	98
40) Benzene	8.04	78	751984	19.465	ug/l	100
41) Methacrylonitrile	7.18	41	110289	17.500	ug/l	96
42) 1,2-Dichloroethane	8.12	62	252228	18.583	ug/l	99
43) Isopropyl Acetate	8.17	43	364064	17.648	ug/l	97
44) Trichloroethene	8.84	130	184993	20.125	ug/l	94
45) 1,2-Dichloropropane	9.12	63	211336	19.119	ug/l	99
46) Dibromomethane	9.21	93	124671	19.458	ug/l	99
47) Bromodichloromethane	9.40	83	232636	18.979	ug/l	100
48) Methyl methacrylate	9.20	41	171019	17.207	ug/l	96
49) 1,4-Dioxane	9.20	88	49394	254.979	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	1153160	84.995	ug/l	97
52) Toluene	10.16	92	437171	19.794	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	227970	19.365	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	274905	19.542	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	175364	19.597	ug/l	98
56) Ethyl methacrylate	10.43	69	248771	18.690	ug/l	96
57) 1,3-Dichloropropane	10.71	76	311639	19.616	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	309715	78.174	ug/l	98
59) 2-Hexanone	10.75	43	771684	81.104	ug/l	100
60) Dibromochloromethane	10.90	129	158410	19.470	ug/l	100
61) 1,2-Dibromoethane	11.00	107	164951	19.185	ug/l	97
64) Tetrachloroethene	10.63	164	174007	18.919	ug/l	98
65) Chlorobenzene	11.43	112	458830	19.868	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	155603	19.572	ug/l	100
67) Ethyl Benzene	11.51	91	836286	19.281	ug/l	99
68) m/p-Xylenes	11.62	106	616403	39.601	ug/l	95
69) o-Xylene	11.95	106	294578	19.255	ug/l	99
70) Styrene	11.96	104	496995	20.277	ug/l	99
71) Bromoform	12.13	173	104442	19.468	ug/l #	98
73) Isopropylbenzene	12.25	105	792740	19.277	ug/l	100
74) N-amyl acetate	12.07	43	274804	15.672	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	239948	17.804	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	204285m	16.248	ug/l	
77) Bromobenzene	12.53	156	508358	49.945	ug/l #	19
78) n-propylbenzene	12.59	91	885902	17.884	ug/l	99
79) 2-Chlorotoluene	12.67	91	535741	17.354	ug/l	98
80) 1,3,5-Trimethylbenzene	12.73	105	681137	18.440	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	51795	15.200	ug/l	95
82) 4-Chlorotoluene	12.77	91	525367	18.010	ug/l	98
83) tert-Butylbenzene	12.99	119	551846	17.430	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	628243	18.545	ug/l	100
85) sec-Butylbenzene	13.17	105	737787	17.534	ug/l	99
86) p-Isopropyltoluene	13.29	119	632746	18.477	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	298114	18.954	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	293633	18.918	ug/l	100
89) n-Butylbenzene	13.62	91	505633	19.049	ug/l	99
90) Hexachloroethane	13.87	117	96450	17.266	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	307921	19.589	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	36728	17.293	ug/l	96

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VN0513MBSD01

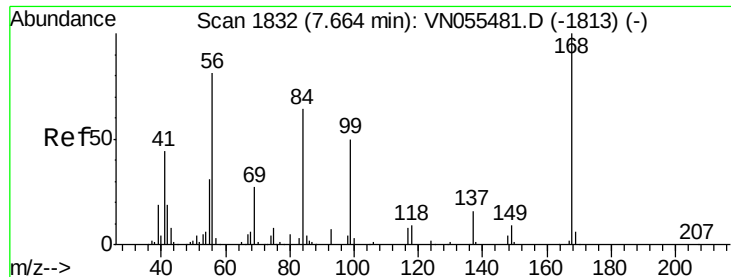
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	143259	22.795	ug/l	96
94) Hexachlorobutadiene	15.01	225	95787	19.155	ug/l	97
95) Naphthalene	15.13	128	389652	21.983	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	160902	23.081	ug/l	98

(#) = 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: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion:168 Resp: 733481

Ion Ratio Lower Upper

168 100

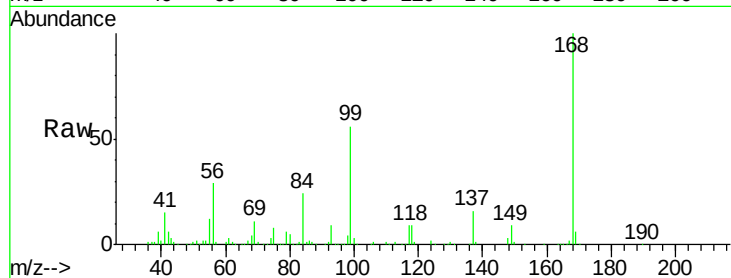
99 55.4 47.0 70.4

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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

300000

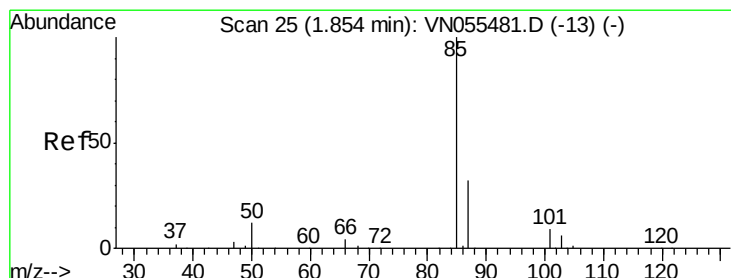
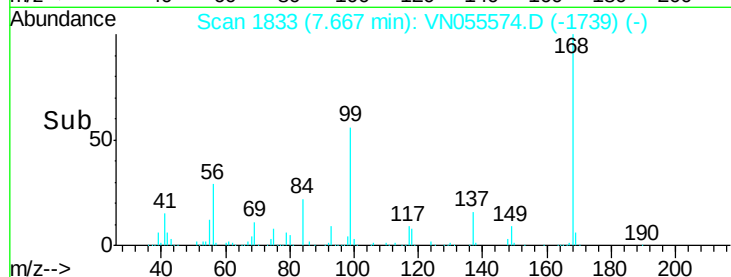
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 16.958 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN055574.D

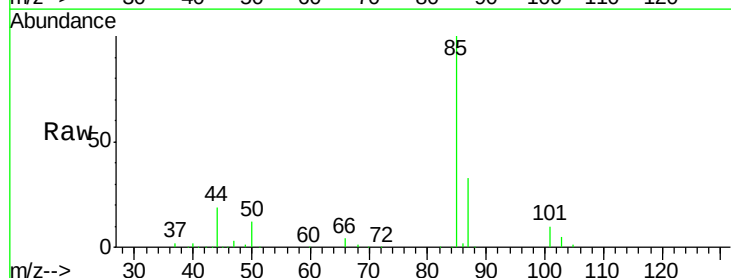
Acq: 13 May 2019 12:53

Tgt Ion: 85 Resp: 126639

Ion Ratio Lower Upper

85 100

87 33.2 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

100000

80000

60000

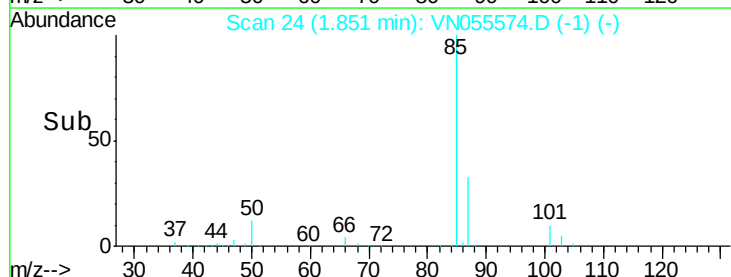
40000

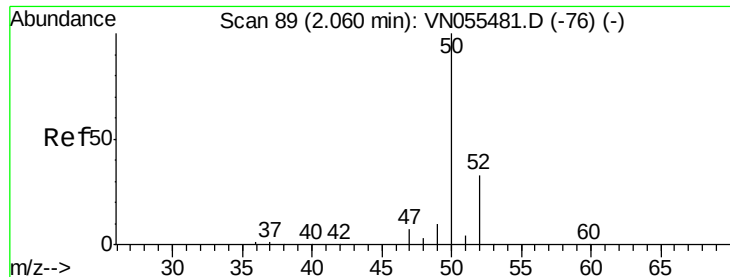
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 16.636 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 50 Resp: 201827

Ion Ratio Lower Upper

50 100

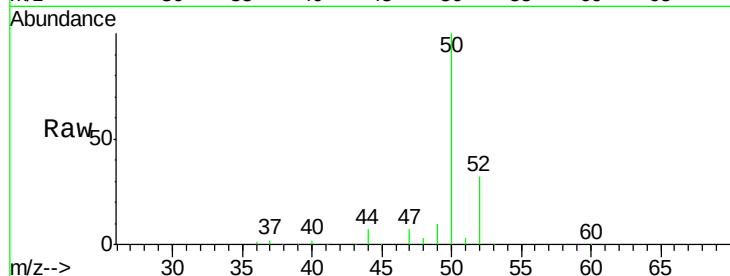
52 32.0 26.6 39.8

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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

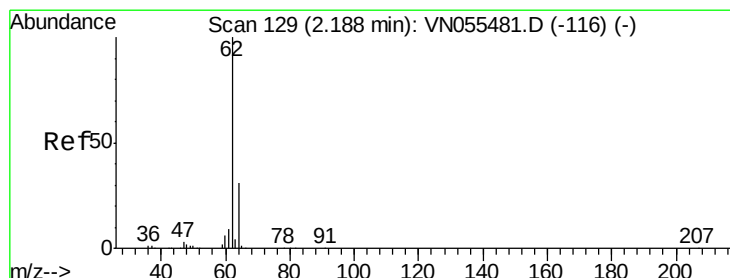
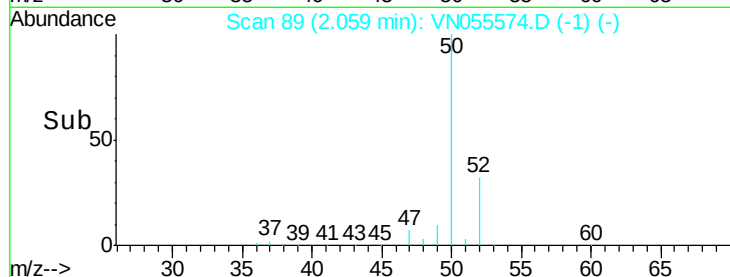
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 17.701 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN055574.D

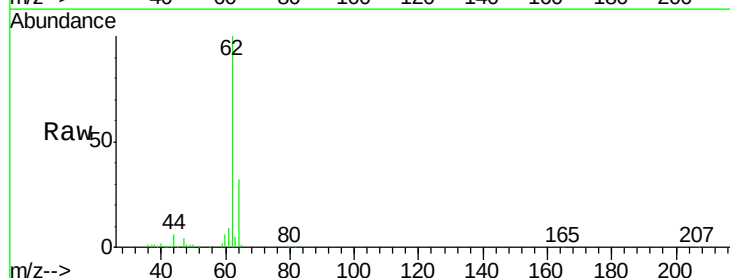
Acq: 13 May 2019 12:53

Tgt Ion: 62 Resp: 202719

Ion Ratio Lower Upper

62 100

64 31.5 25.0 37.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.19

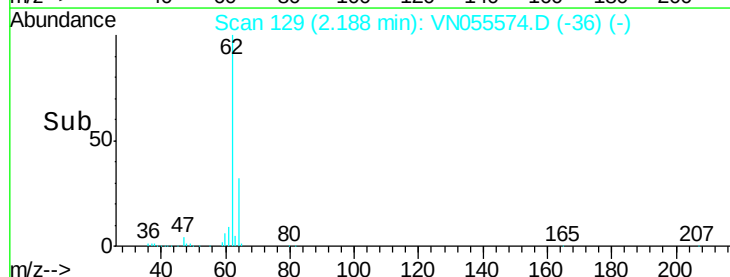
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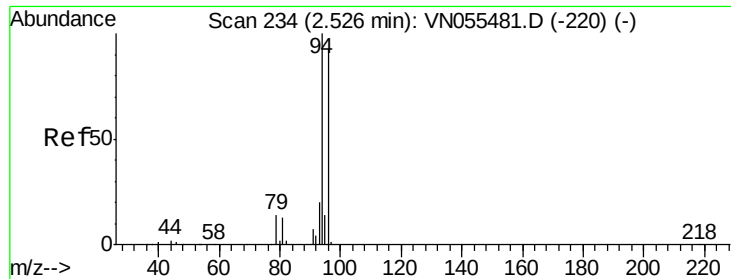
100000

50000

0

Time-->





#5

Bromomethane

Concen: 19.456 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.05 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 94 Resp: 122082

Ion Ratio Lower Upper

94 100

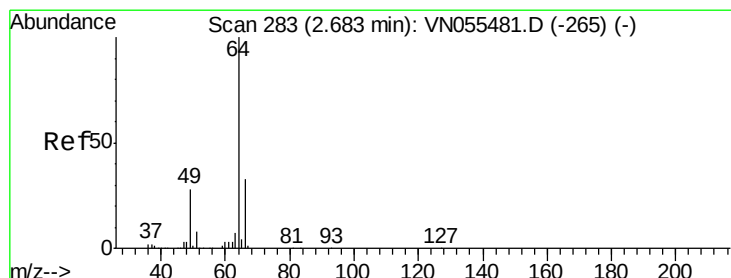
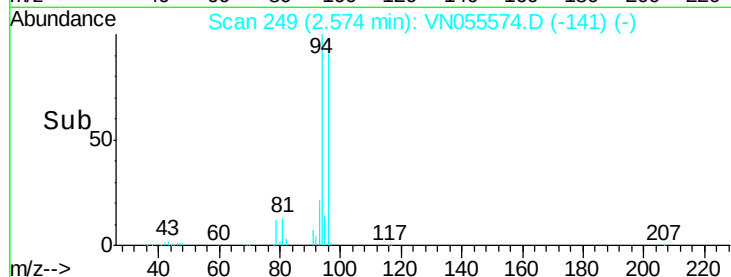
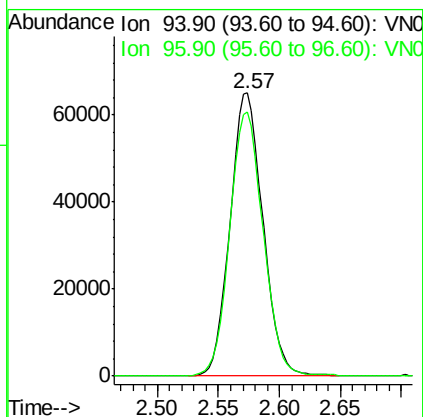
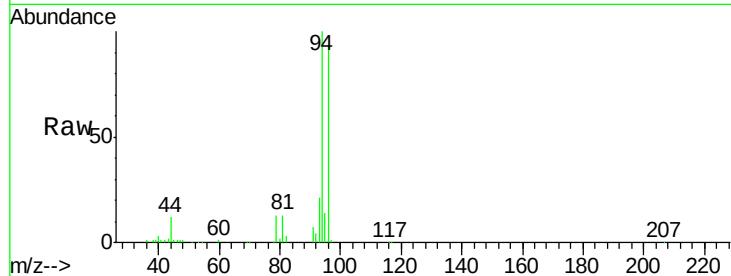
96 93.5 74.8 112.2

Manual Integrations

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#6

Chloroethane

Concen: 18.805 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.03 min

Lab File: VN055574.D

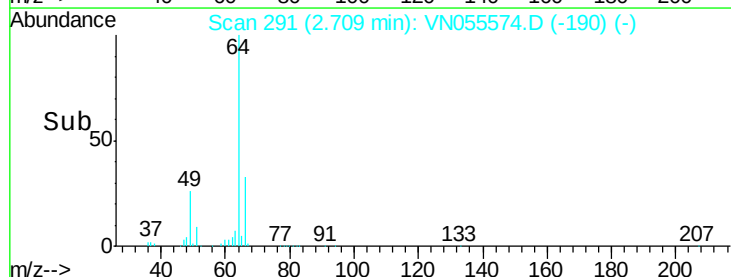
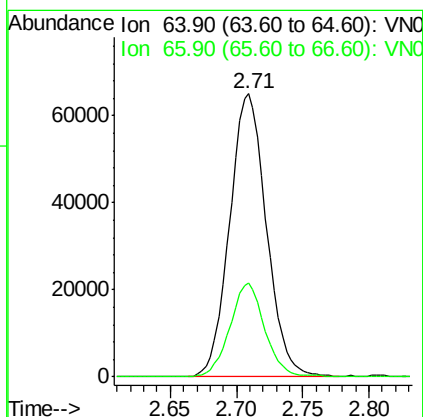
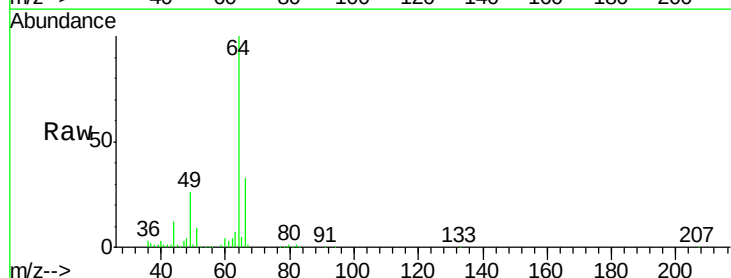
Acq: 13 May 2019 12:53

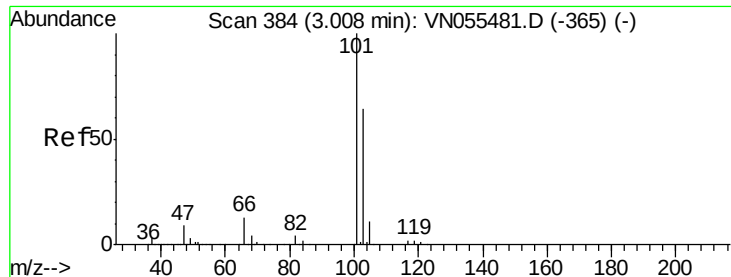
Tgt Ion: 64 Resp: 125442

Ion Ratio Lower Upper

64 100

66 33.1 26.2 39.2





#7

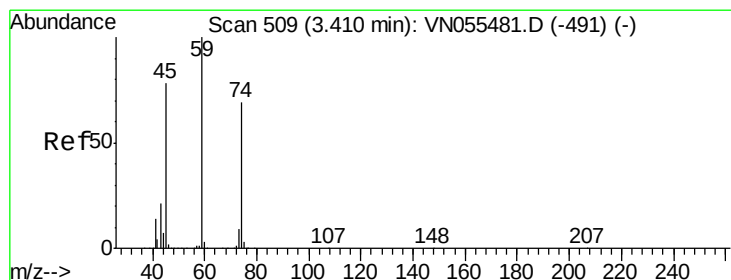
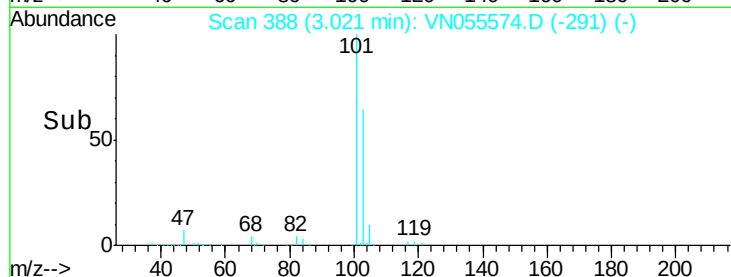
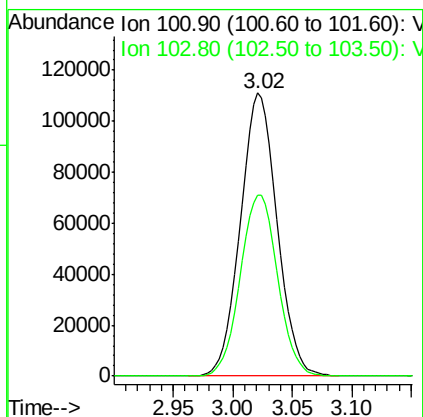
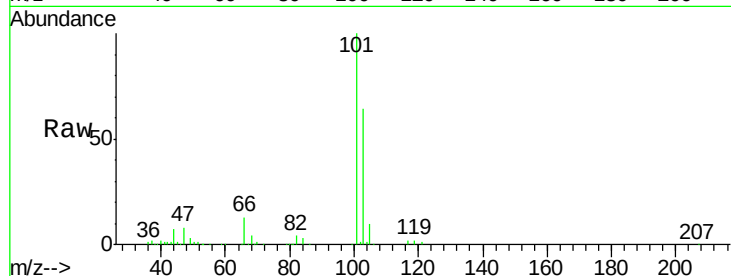
Trichlorofluoromethane
 Concen: 18.894 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.01 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

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 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.2	76.8

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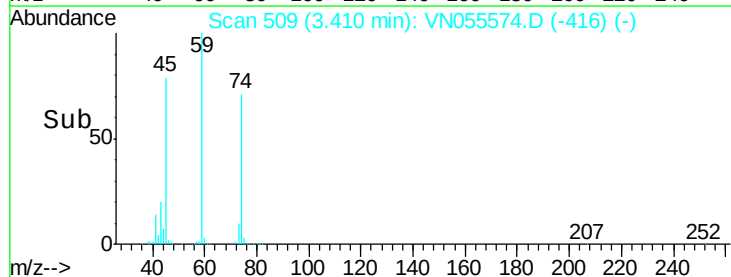
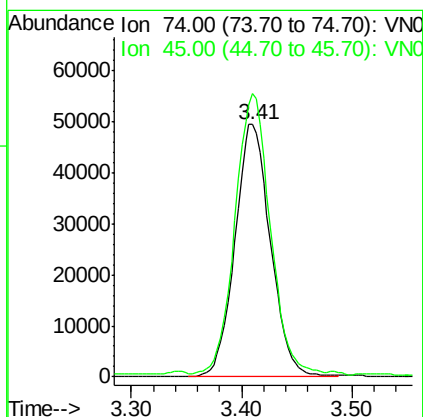
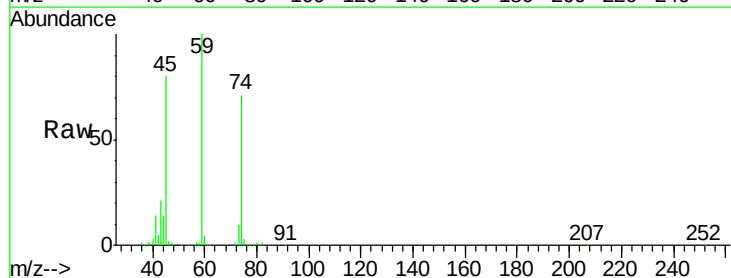
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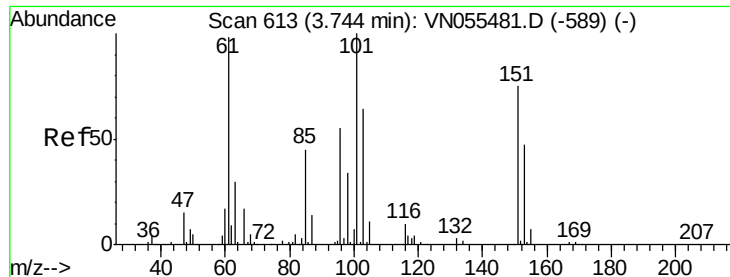


#8

Diethyl Ether
 Concen: 19.578 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	108.9	58.1	174.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.356 ug/l

RT: 3.76 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

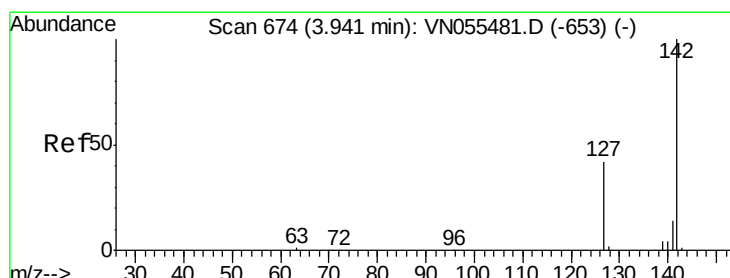
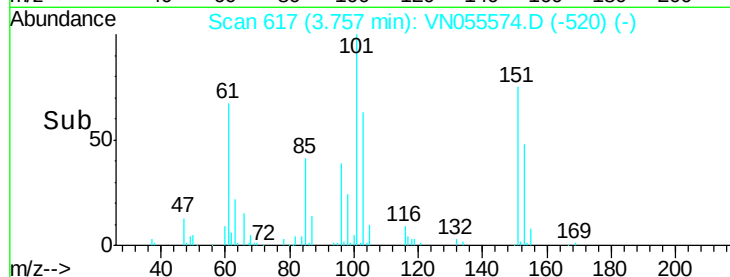
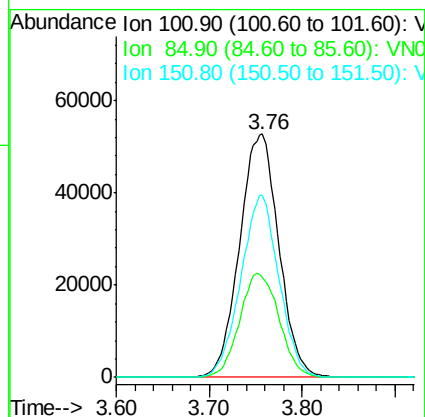
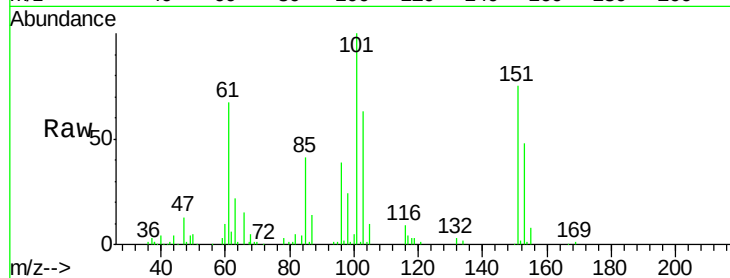
ClientSampleId :

VN0513MBSD01

Tot Ion:	101	Resp:	154719
Ion Ratio	Lower	Upper	
101	100		
85	42.9	35.5	53.3
151	72.8	59.2	88.8

Manual Integrations
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#10

Methyl Iodide

Concen: 16.803 ug/l

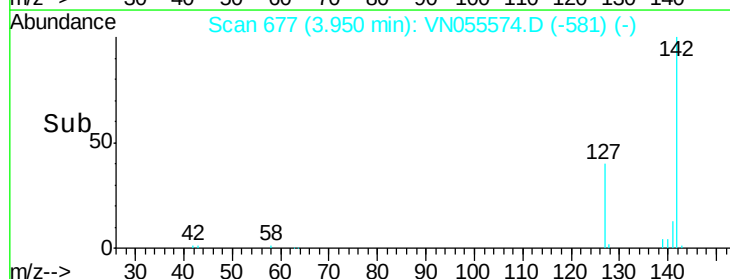
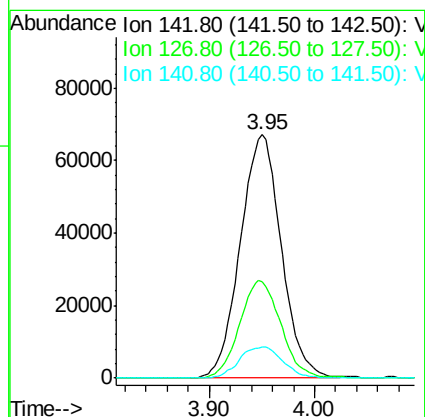
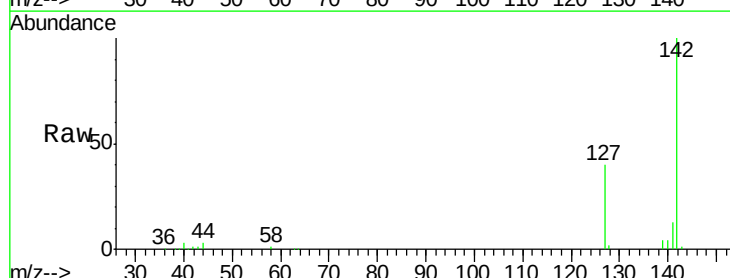
RT: 3.95 min Scan# 677

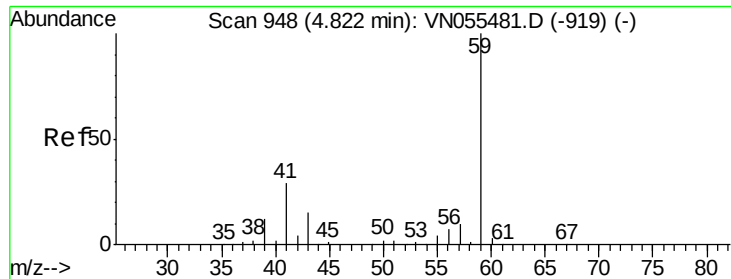
Delta R.T. 0.01 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	142	Resp:	181535
Ion Ratio	Lower	Upper	
142	100		
127	40.2	33.0	49.4
141	13.7	11.4	17.0





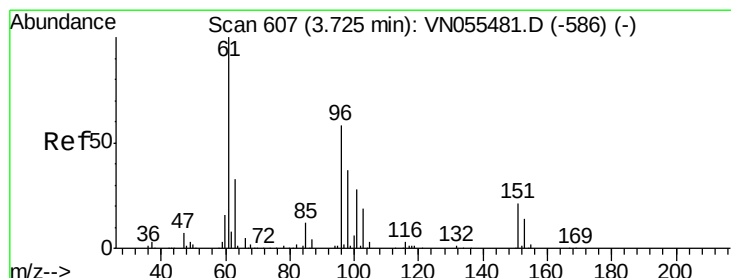
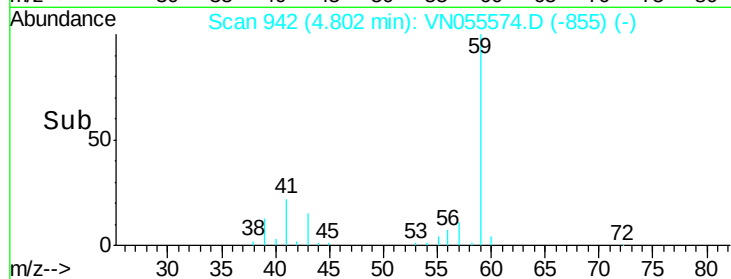
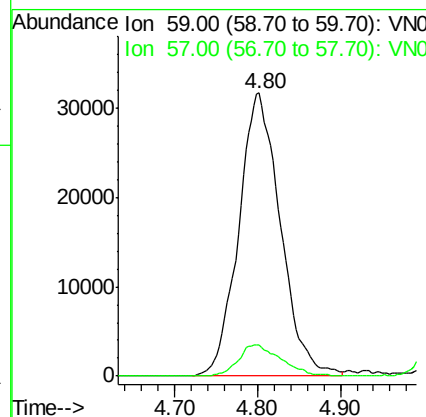
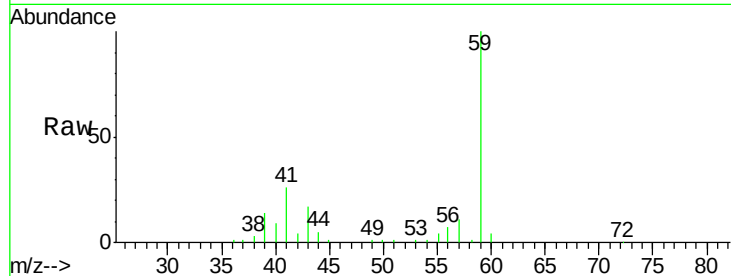
#11
Tert butyl alcohol
Concen: 68.093 ug/l
RT: 4.80 min Scan# 942
Delta R.T. -0.02 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampled :
VN0513MBSD01

Tot Ion	59	57	Ratio	100	11.4	Resp	Lower	Upper
111034								
						8.0		12.0

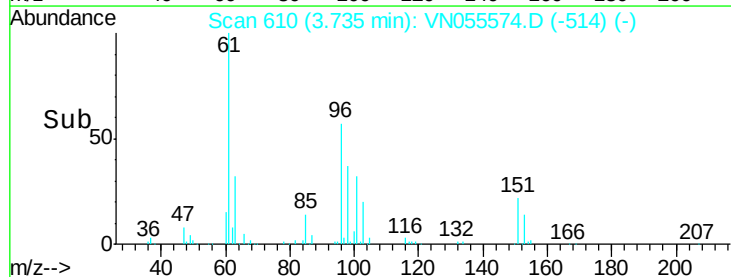
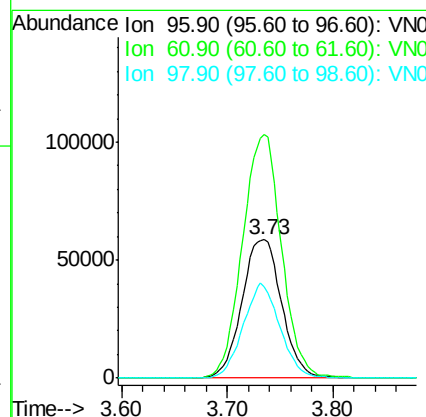
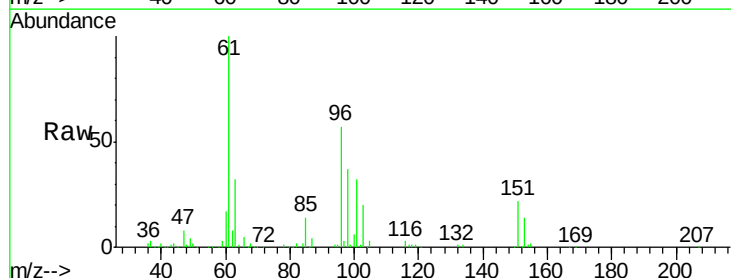
Manual Integrations
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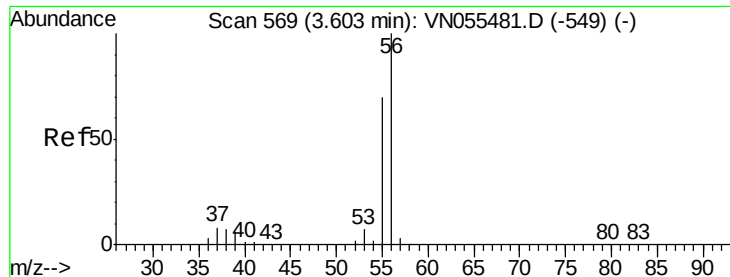
MMDadoda
5/14/2019 9:42:36 AM



#12
1,1-Dichloroethene
Concen: 19.227 ug/l
RT: 3.73 min Scan# 610
Delta R.T. 0.01 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	96	61	98	Ratio	100	176.0	65.9	Resp	Lower	Upper
154136										





#13

Acrolein

Concen: 84.666 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 56 Resp: 92011

Ion Ratio Lower Upper

56 100

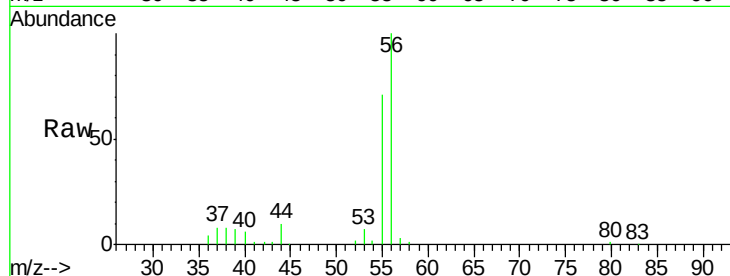
55 71.6 57.7 86.5

Manual Integrations

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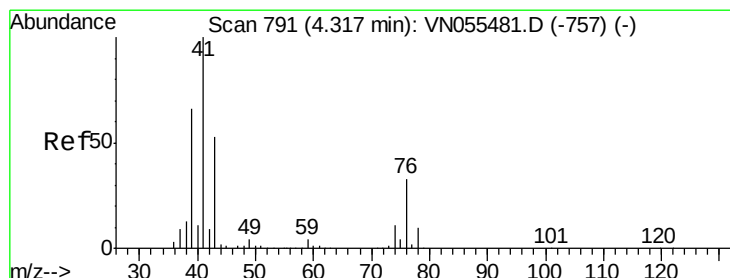
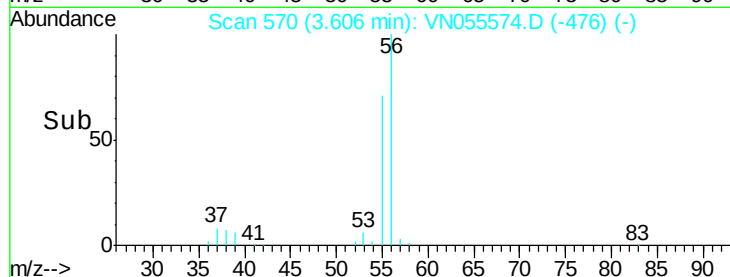
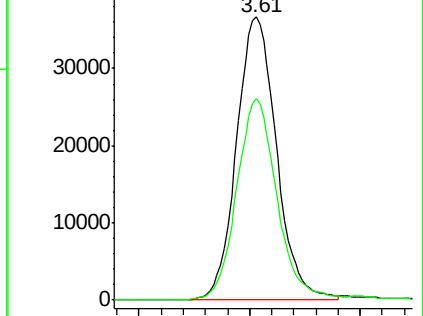
MMDadoda

5/14/2019 9:42:36 AM



Abundance Ion 56.00 (55.70 to 56.70): VN055574.D (-549) (-)

Ion 55.00 (54.70 to 55.70): VN055574.D (-549) (-)



#14

Allyl chloride

Concen: 17.733 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

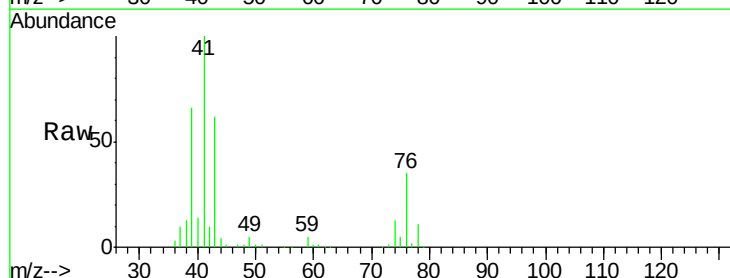
Tgt Ion: 41 Resp: 291203

Ion Ratio Lower Upper

41 100

39 61.3 49.8 74.8

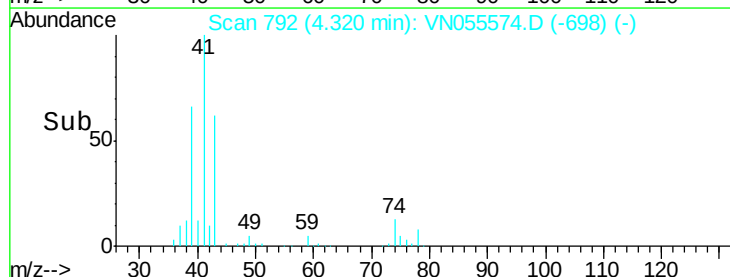
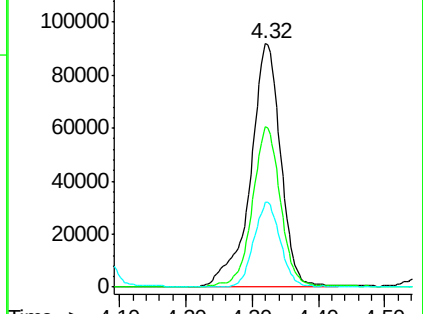
76 30.5 23.5 35.3

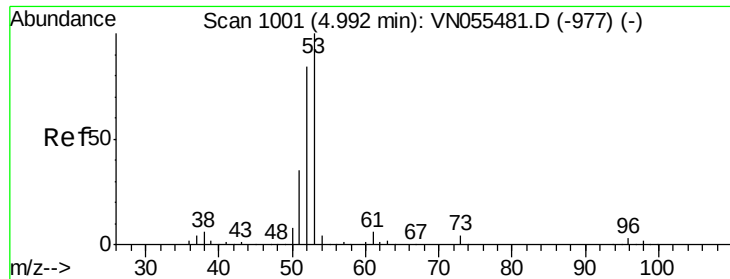


Abundance Ion 41.00 (40.70 to 41.70): VN055574.D (-698) (-)

Ion 39.00 (38.70 to 39.70): VN055574.D (-698) (-)

Ion 75.90 (75.60 to 76.60): VN055574.D (-698) (-)





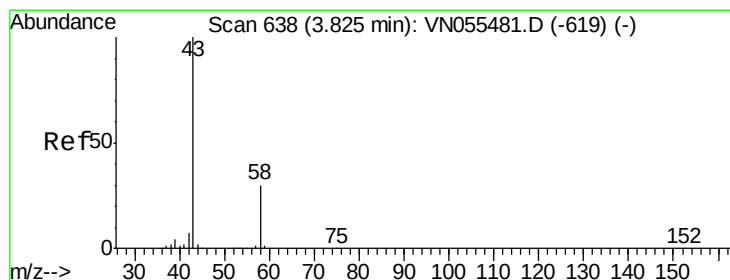
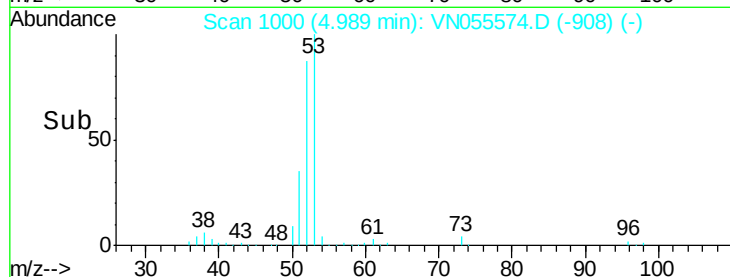
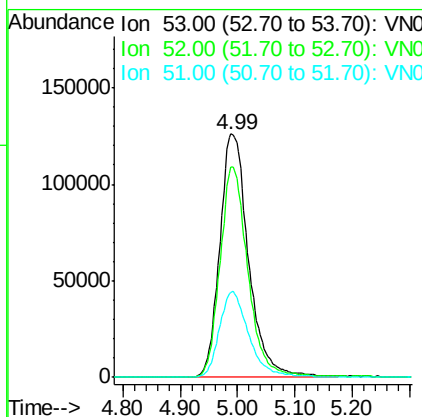
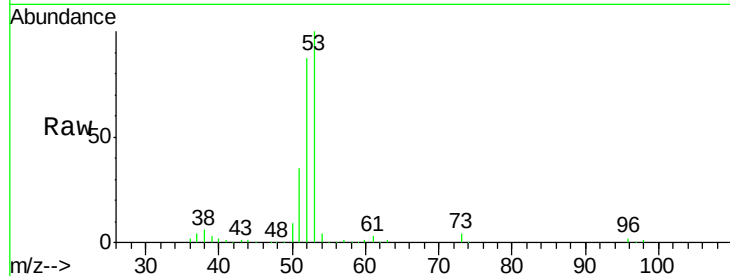
#15
 Acrylonitrile
 Concen: 87.486 ug/l
 RT: 4.99 min Scan# 1000
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.1	99.1
51	36.1	28.3	42.5

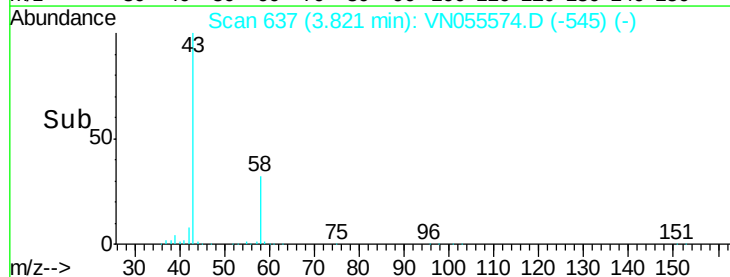
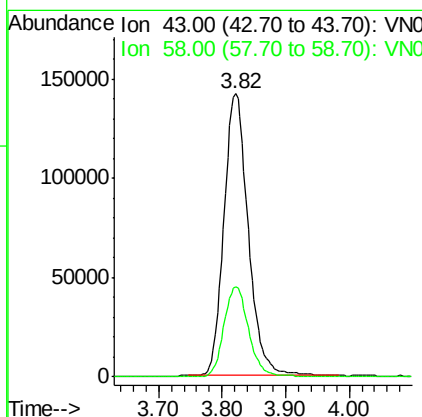
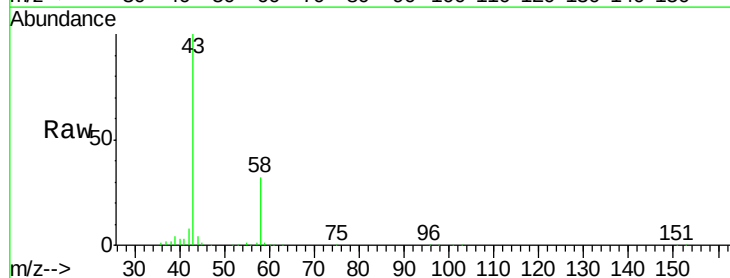
Manual Integrations
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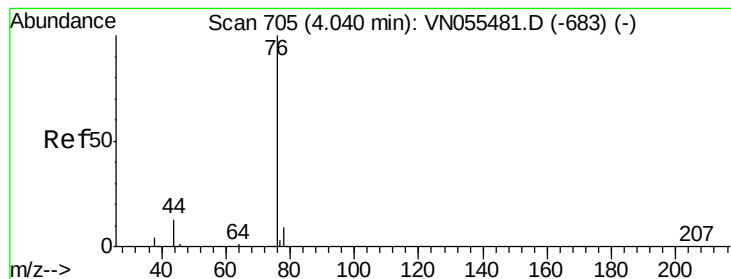
MMDadoda
 5/14/2019 9:42:36 AM



#16
 Acetone
 Concen: 73.754 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.9	24.2	36.2





#17

Carbon Disulfide

Concen: 17.509 ug/l

RT: 4.05 min Scan# 707

Delta R.T. 0.01 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 76 Resp: 383079

Ion Ratio Lower Upper

76 100

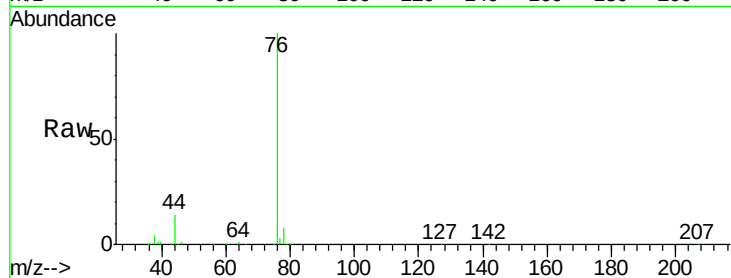
78 8.3 7.4 11.0

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

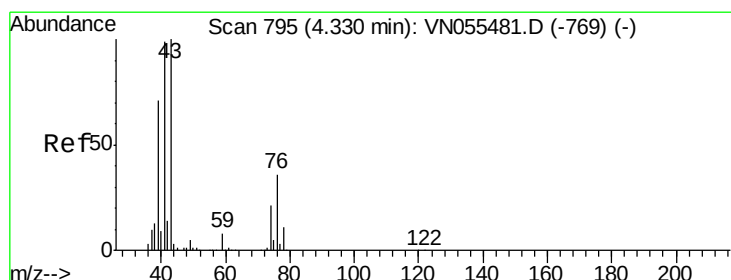
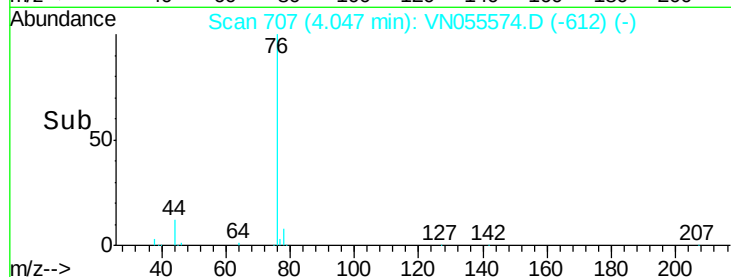
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 17.076 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055574.D

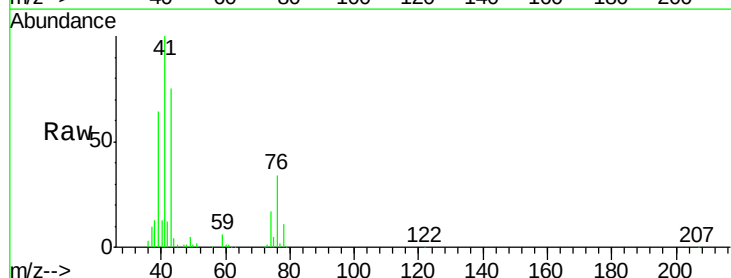
Acq: 13 May 2019 12:53

Tgt Ion: 43 Resp: 191052

Ion Ratio Lower Upper

43 100

74 21.3 16.3 24.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.33

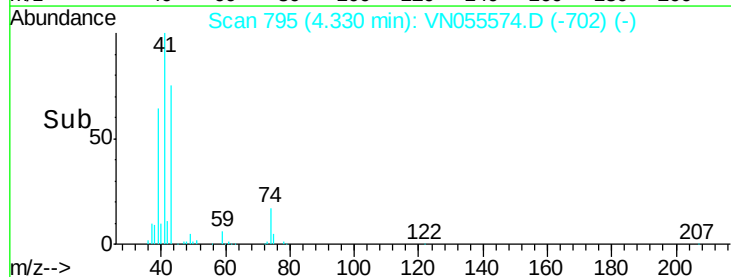
60000

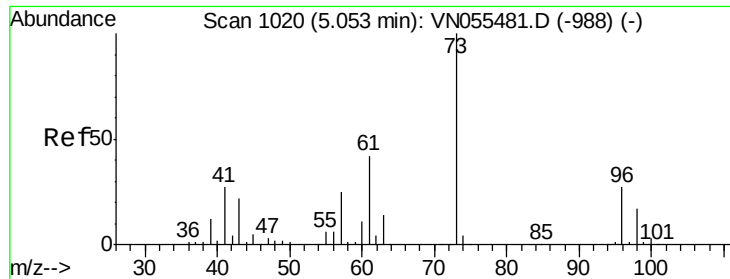
40000

20000

0

Time-->





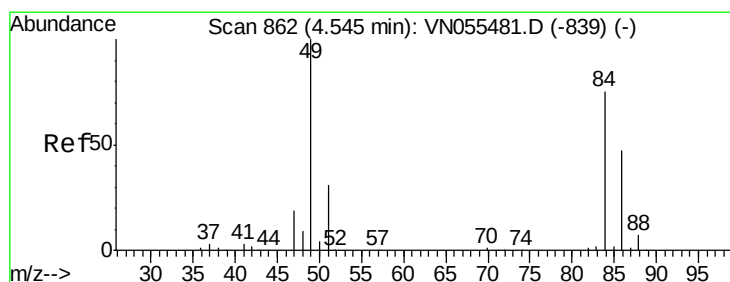
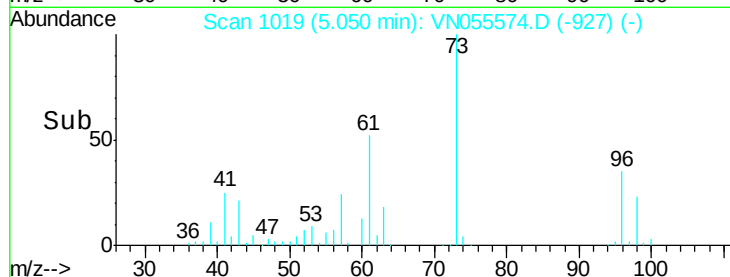
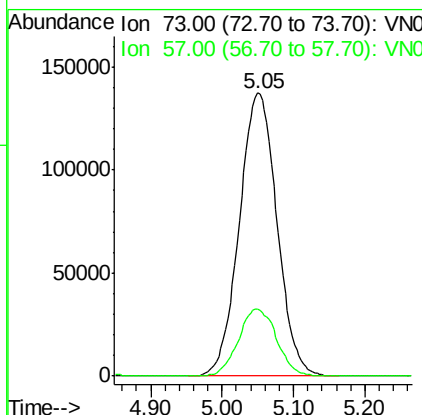
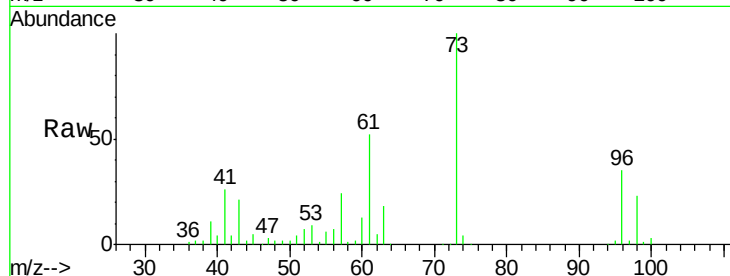
#19
Methyl tert-butyl Ether
Concen: 18.916 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion: 73 Resp: 503862
Ion Ratio Lower Upper
73 100
57 23.6 20.0 30.0

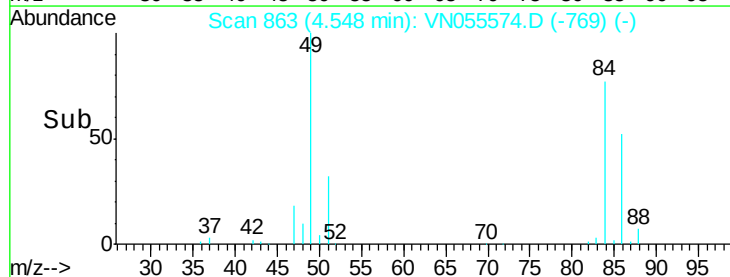
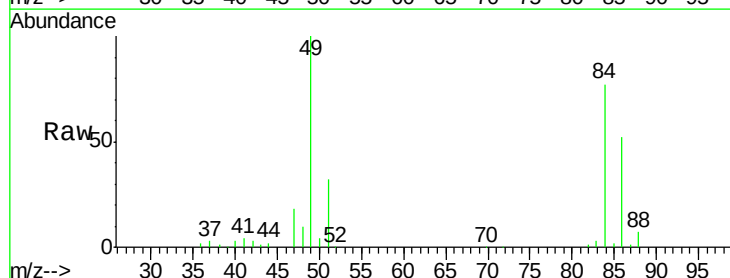
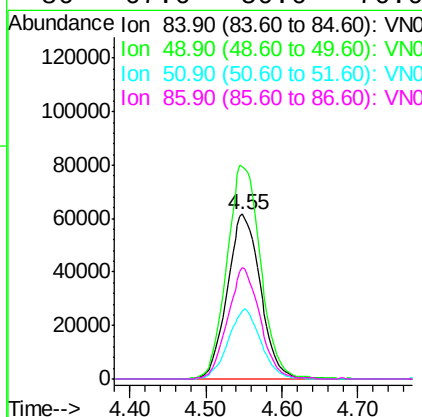
Manual Integrations
APPROVED

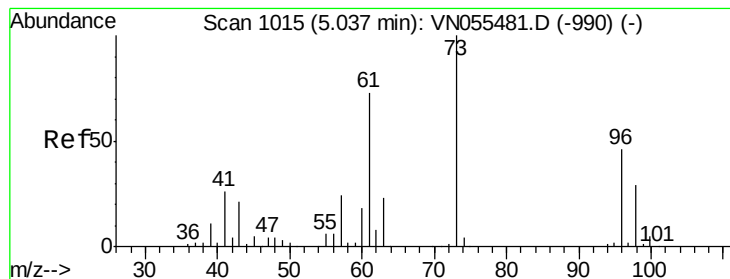
MMDadoda
5/14/2019 9:42:36 AM



#20
Methylene Chloride
Concen: 17.842 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion: 84 Resp: 186564
Ion Ratio Lower Upper
84 100
49 128.7 107.0 160.6
51 41.2 33.0 49.4
86 67.6 50.6 76.0





#21

trans-1,2-Dichloroethene

Concen: 19.197 ug/l

RT: 5.04 min Scan# 1016

Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

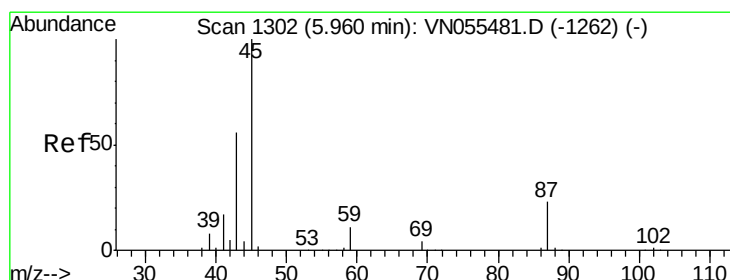
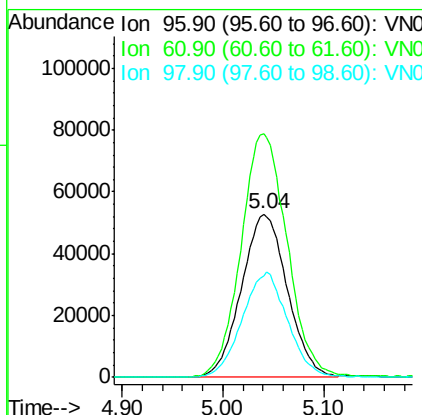
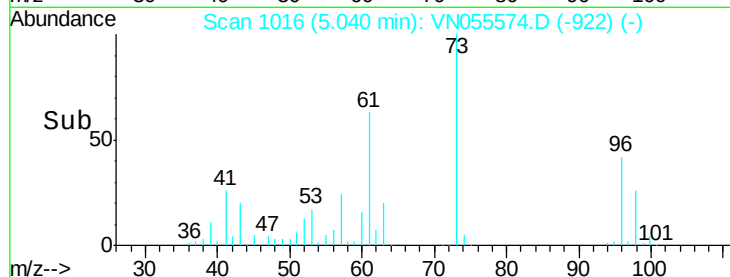
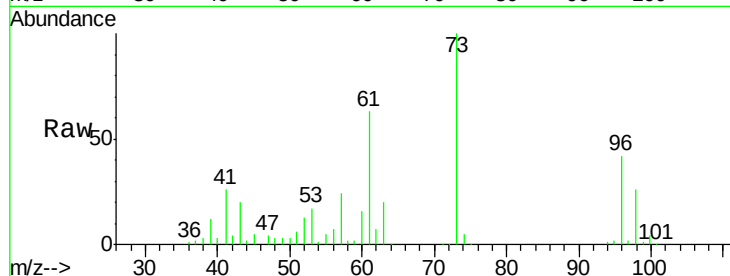
ClientSampleId :

VN0513MBSD01

Tot Ion:	96	Resp:	166851
Ion	Ratio	Lower	Upper
96	100		
61	149.2	127.4	191.0
98	62.4	51.6	77.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 18.792 ug/l

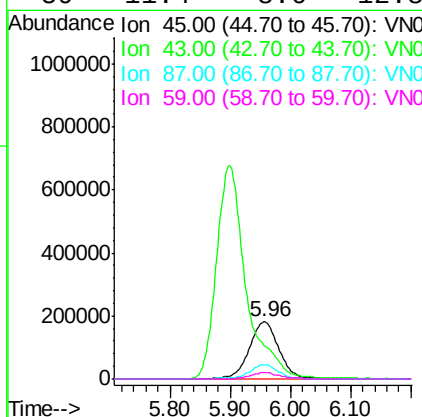
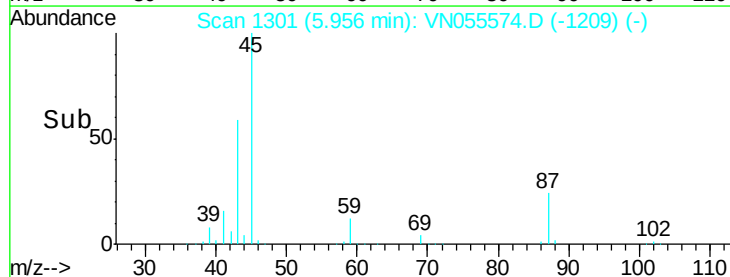
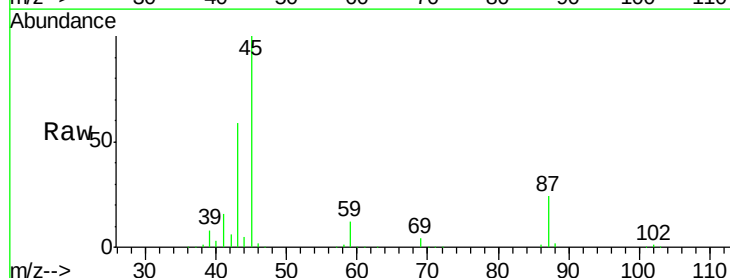
RT: 5.96 min Scan# 1301

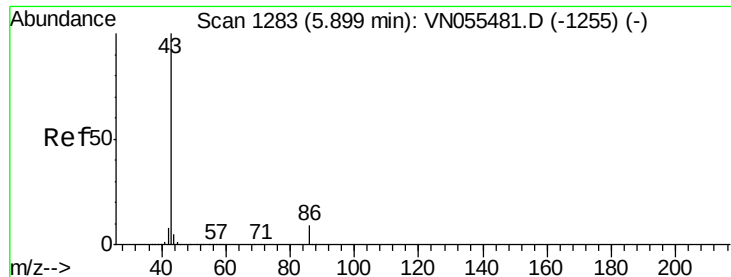
Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	45	Resp:	627115
Ion	Ratio	Lower	Upper
45	100		
43	58.5	44.6	66.8
87	24.1	18.6	28.0
59	11.4	8.6	12.8





#23

Vinyl Acetate

Concen: 89.446 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 43 Resp: 2308360

Ion Ratio Lower Upper

43 100

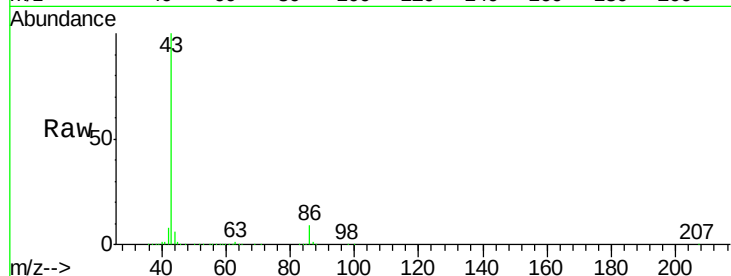
86 9.2 7.1 10.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

800000

600000

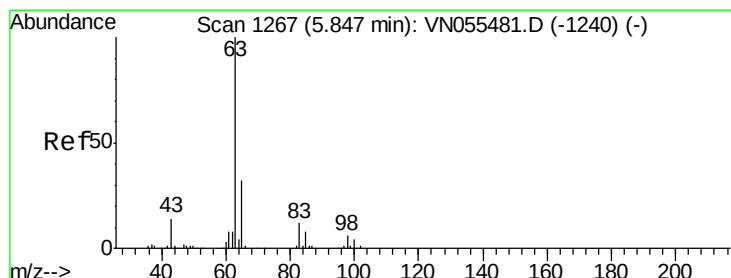
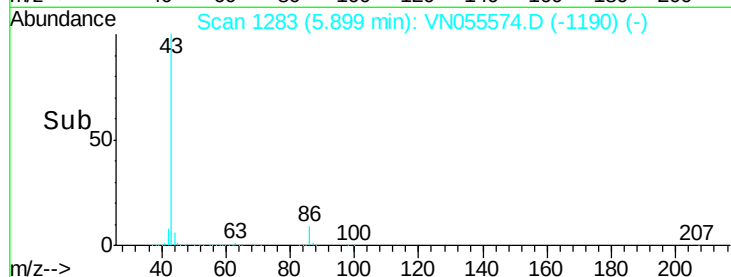
400000

200000

0

5.70 5.80 5.90 6.00 6.10

Time-->



#24

1,1-Dichloroethane

Concen: 18.828 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

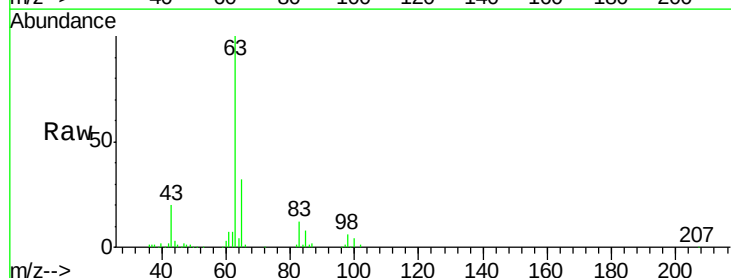
Tgt Ion: 63 Resp: 339170

Ion Ratio Lower Upper

63 100

98 6.1 3.0 9.0

100 3.5 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

150000

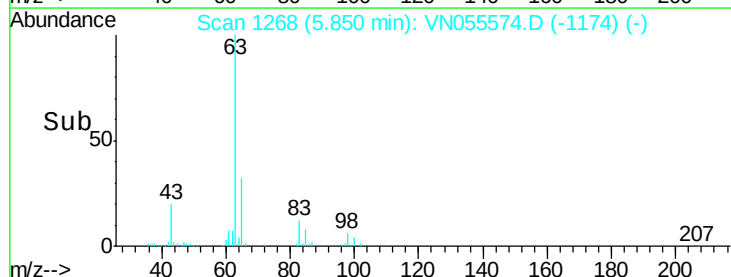
100000

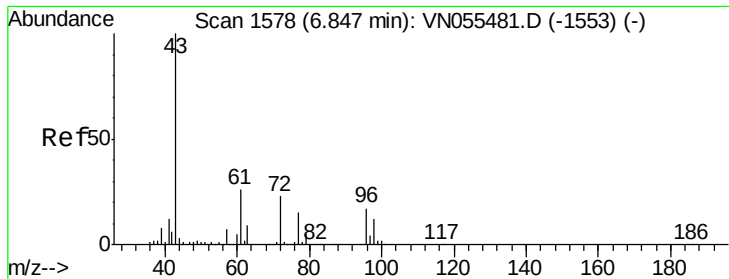
50000

0

5.70 5.80 5.90 6.00

Time-->





#25

2-Butanone

Concen: 80.236 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 43 Resp: 566775

Ion Ratio Lower Upper

43 100

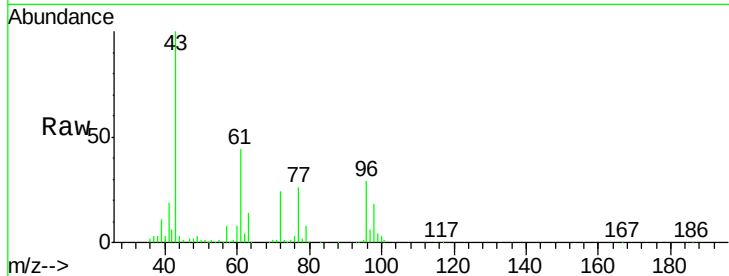
72 23.7 18.6 27.8

Manual Integrations

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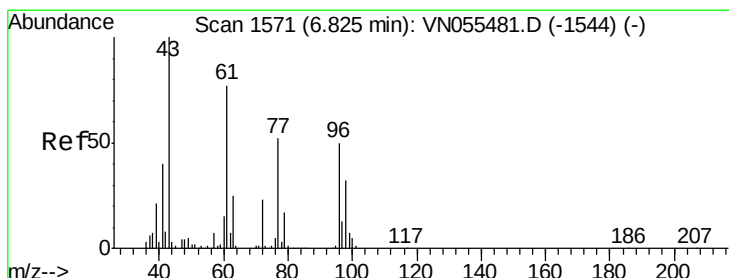
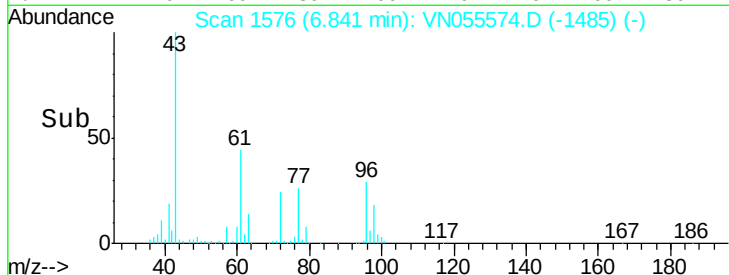
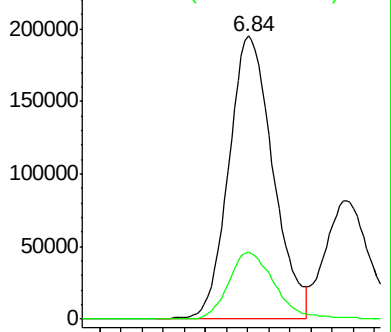
MMDadoda

5/14/2019 9:42:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 18.624 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN055574.D

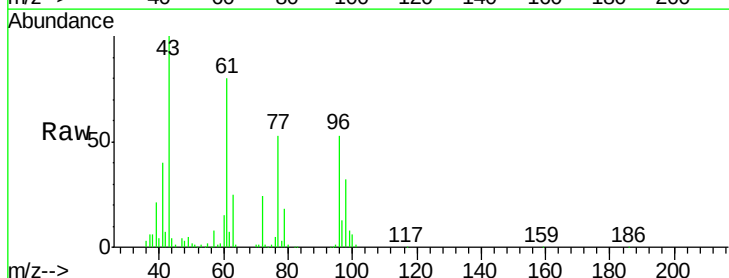
Acq: 13 May 2019 12:53

Tgt Ion: 77 Resp: 209143

Ion Ratio Lower Upper

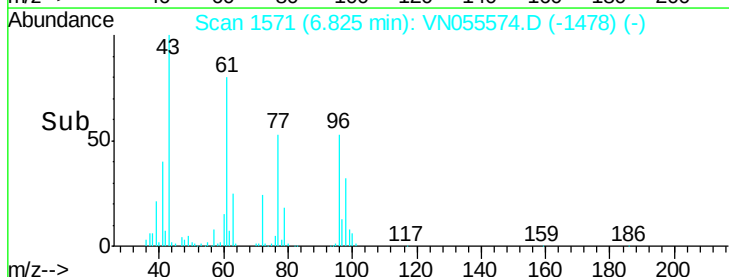
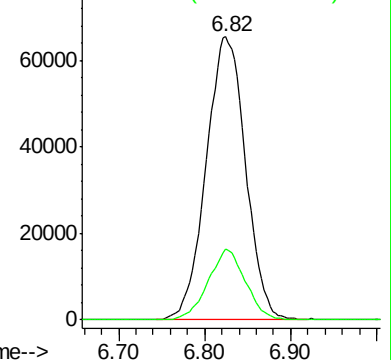
77 100

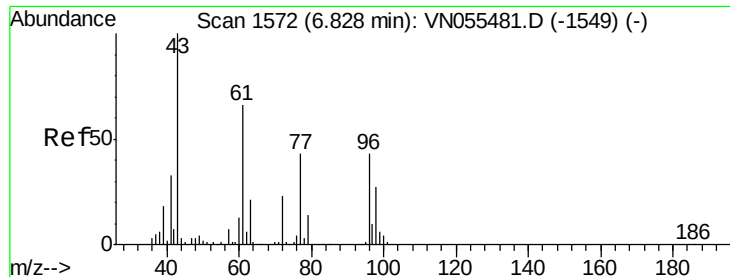
97 23.5 11.5 34.5



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





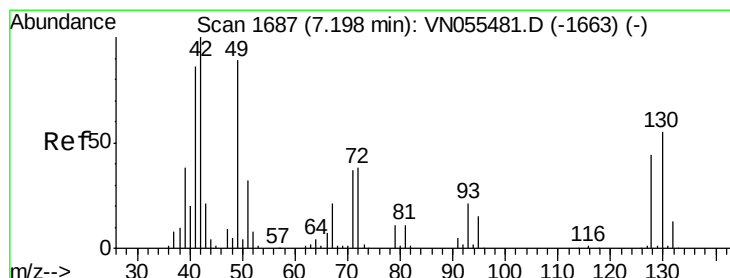
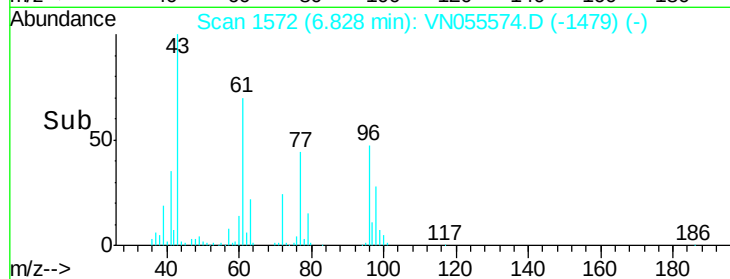
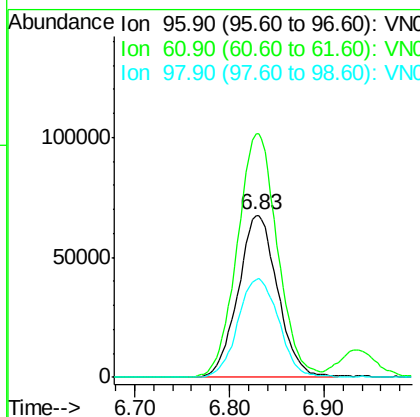
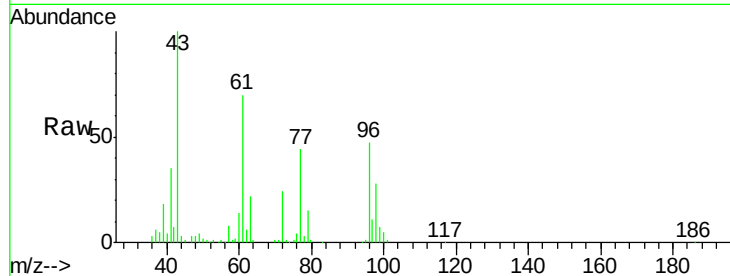
#27
 cis-1,2-Dichloroethene
 Concen: 19.512 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	195991		
61	153.0	0.0	310.8	
98	63.2	0.0	129.4	

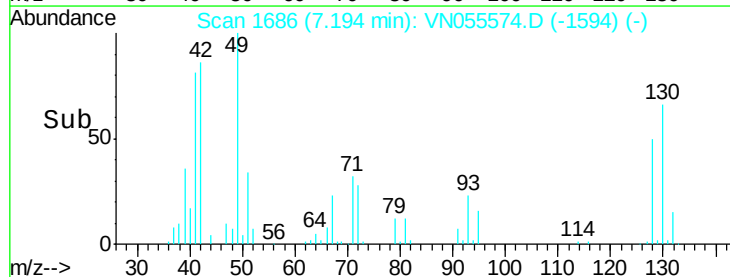
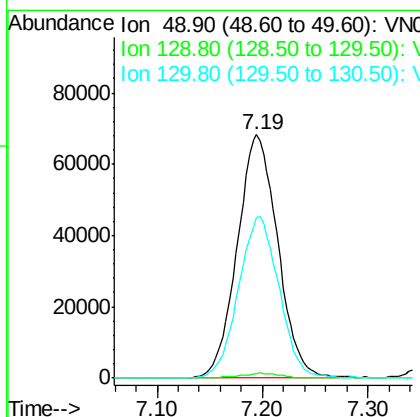
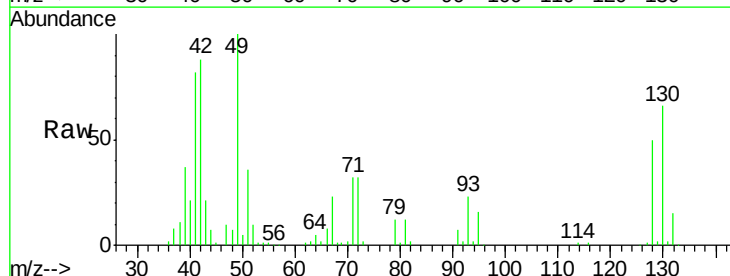
Manual Integrations
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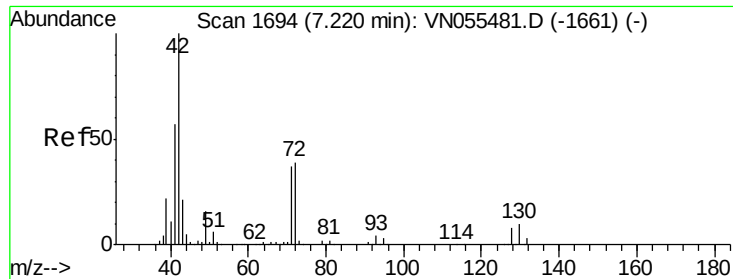
MMDadoda
 5/14/2019 9:42:36 AM



#28
 Bromochloromethane
 Concen: 19.512 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	182537		
129	2.1	0.0	3.2	
130	66.4	49.5	74.3	





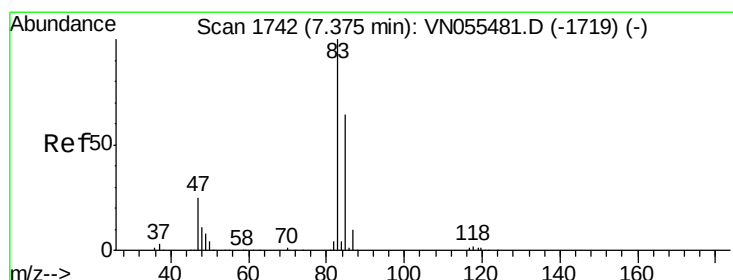
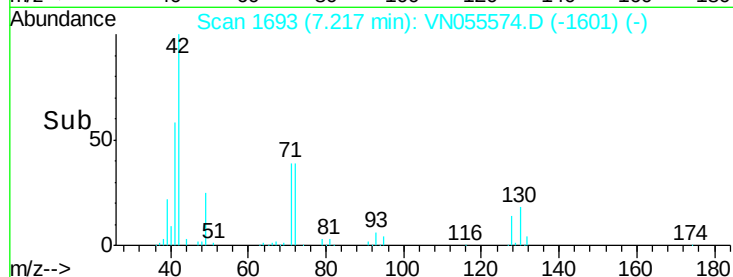
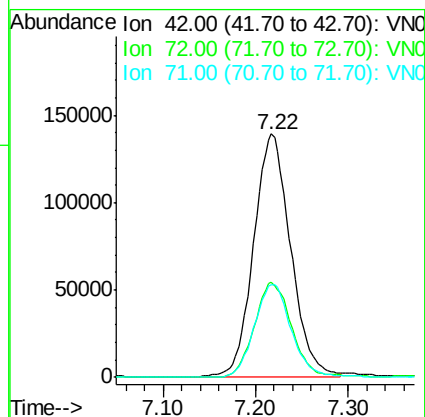
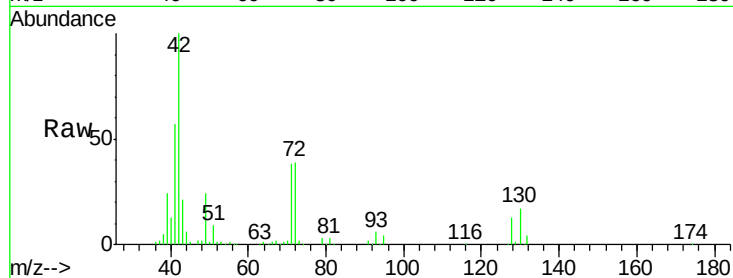
#29
Tetrahydrofuran
Concen: 82.520 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.9	31.0	46.6
71	38.0	29.4	44.2

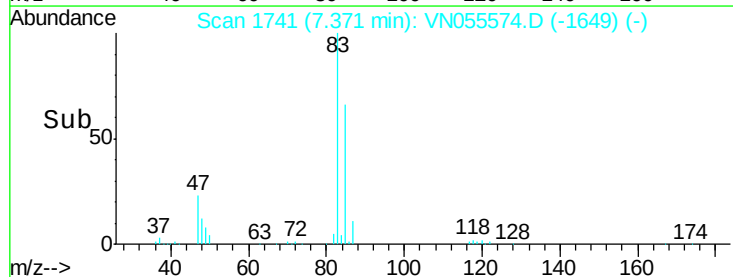
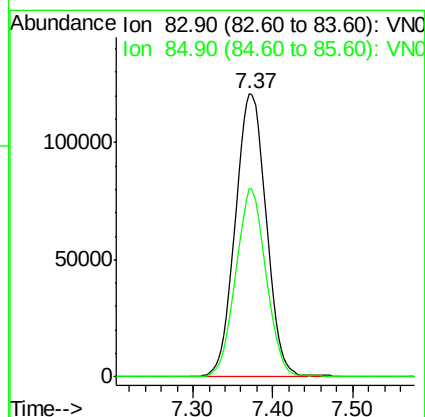
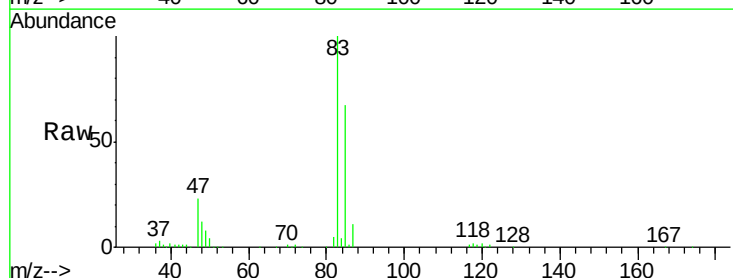
Manual Integrations
APPROVED

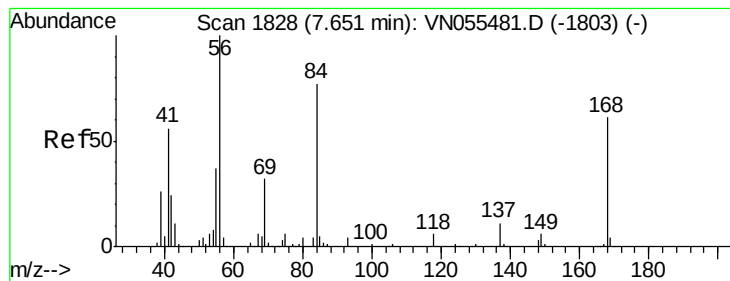
MMDadoda
5/14/2019 9:42:36 AM



#30
Chloroform
Concen: 18.991 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.3	76.9





#31

Cyclohexane

Concen: 18.052 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

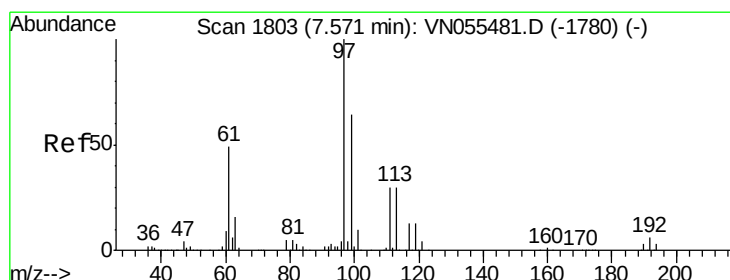
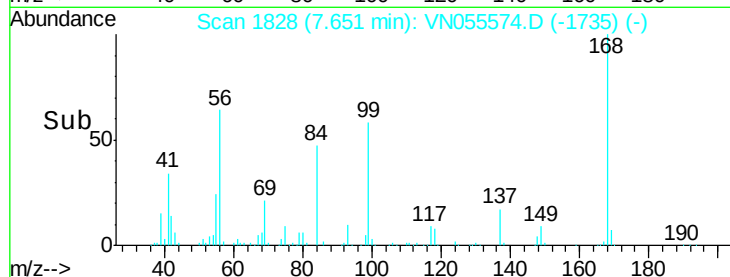
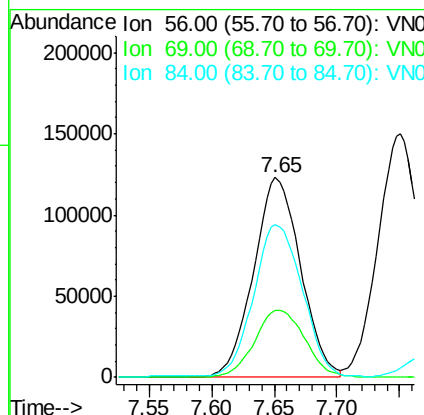
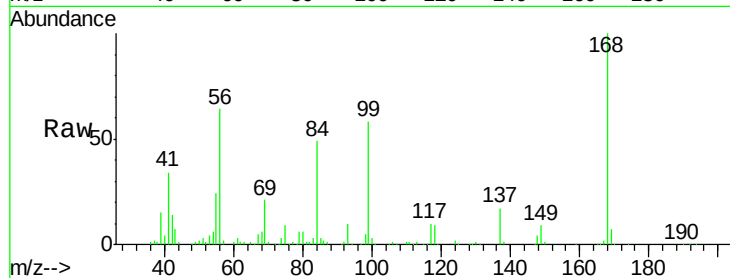
ClientSampleId :

VN0513MBSD01

Tot Ion:	56	Resp:	321753
Ion Ratio		Lower	Upper
56	100		
69	33.5	26.0	39.0
84	75.5	61.9	92.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.291 ug/l

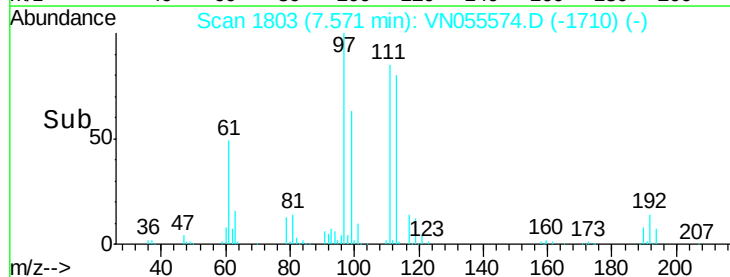
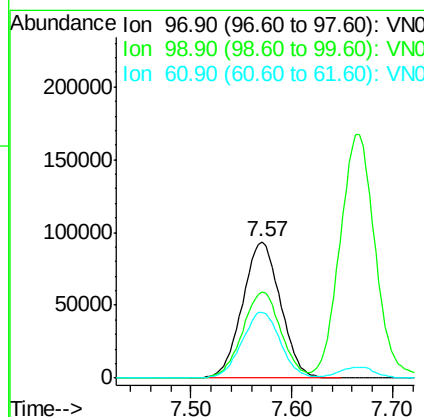
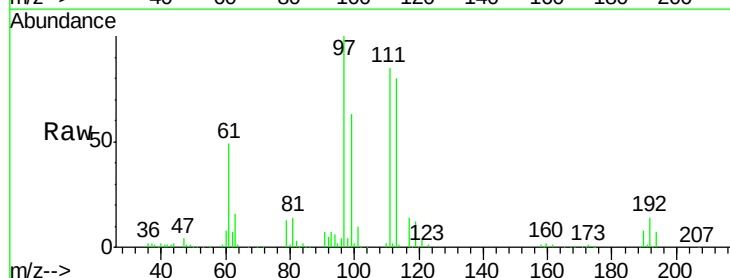
RT: 7.57 min Scan# 1803

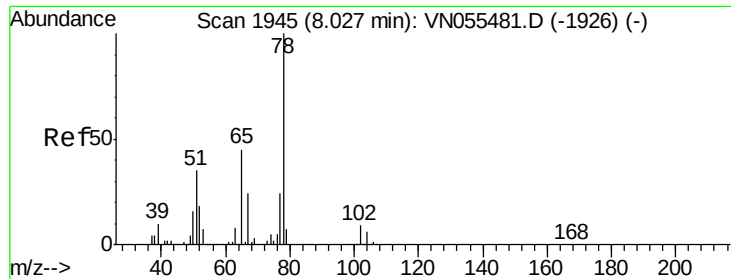
Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	97	Resp:	244636
Ion Ratio		Lower	Upper
97	100		
99	63.7	51.2	76.8
61	48.9	39.2	58.8





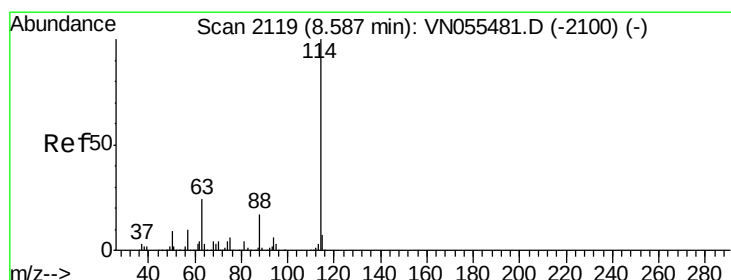
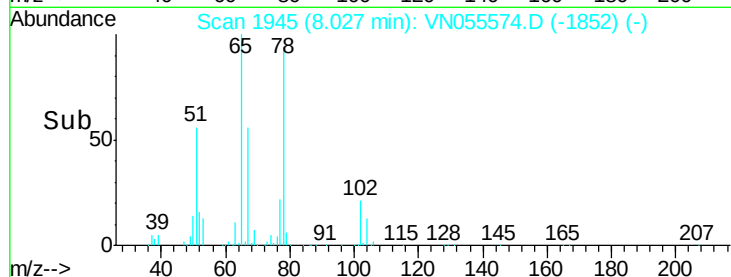
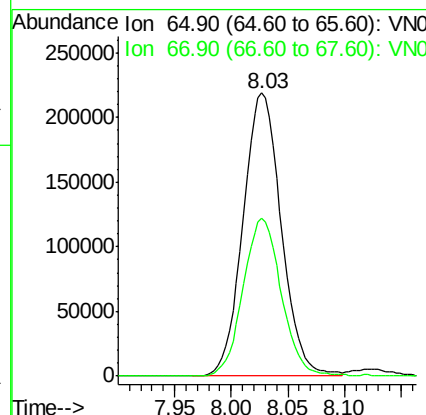
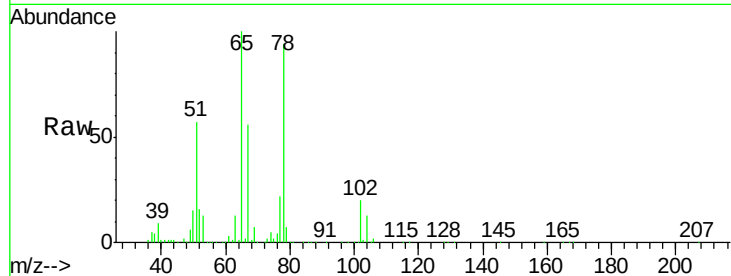
#33
 1,2-Dichloroethane-d4
 Concen: 46.700 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.7	0.0	109.6	

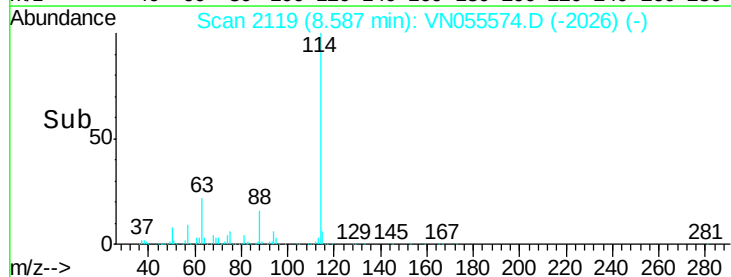
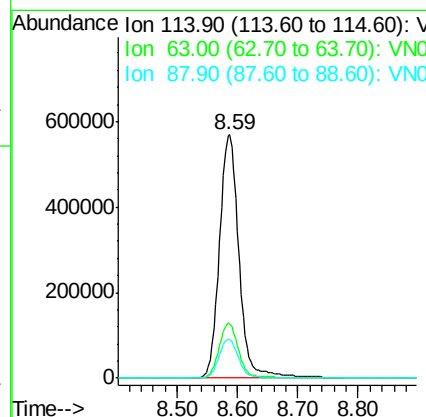
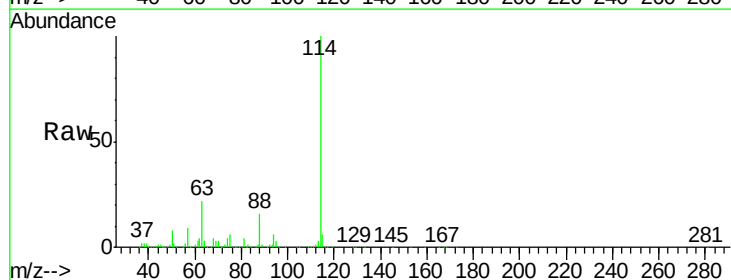
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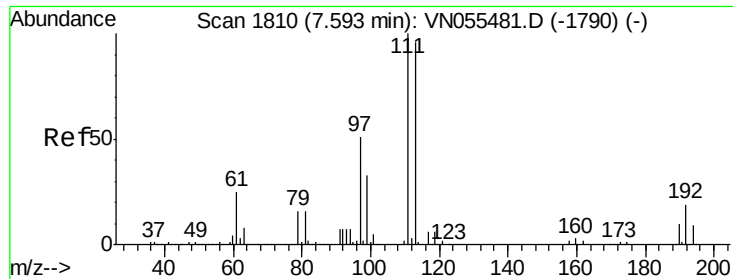
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	22.4	0.0	47.4	
88	16.0	0.0	34.0	





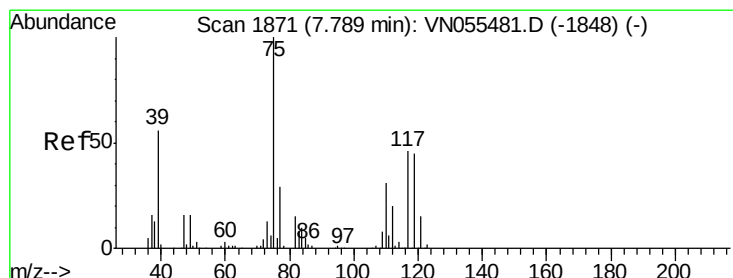
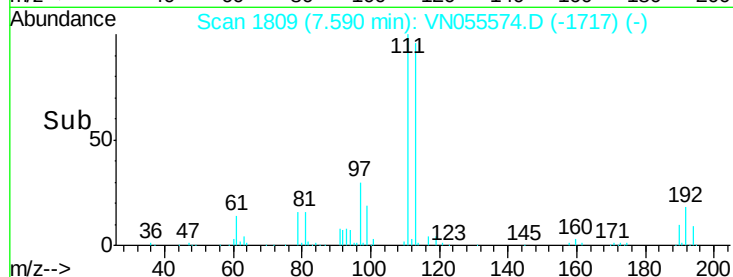
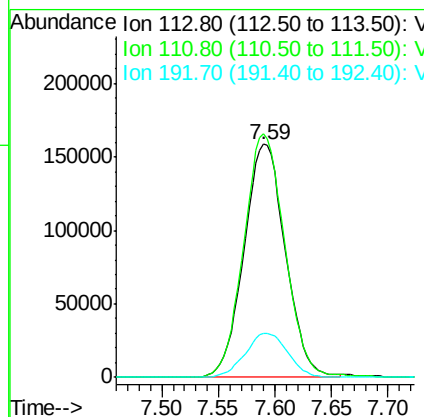
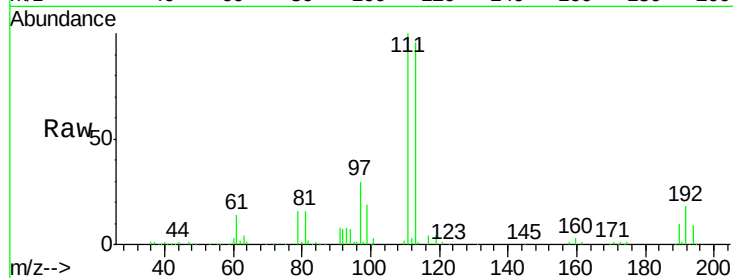
#35
Dibromofluoromethane
Concen: 49.576 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	104.2	82.9	124.3	
192	19.6	15.6	23.4	

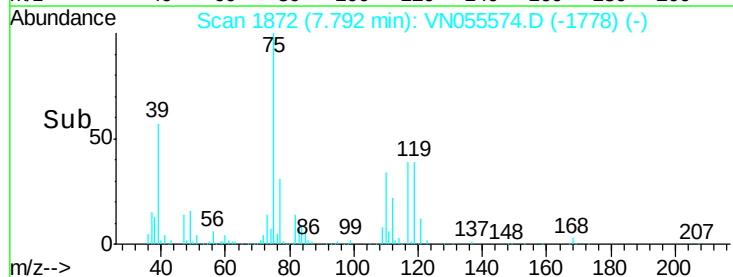
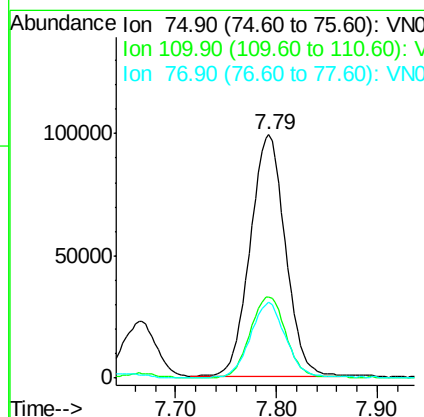
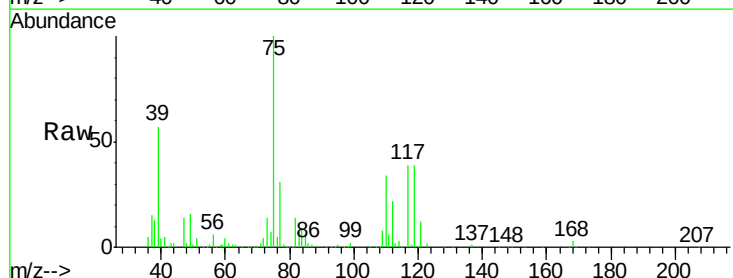
Manual Integrations
APPROVED

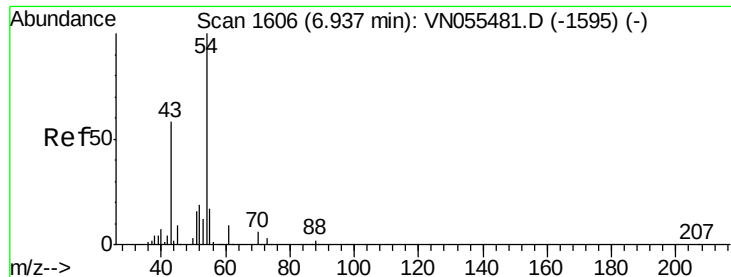
MMDadoda
5/14/2019 9:42:36 AM



#36
1,1-Dichloropropene
Concen: 19.318 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. 0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	34.1	16.1	48.3	
77	30.7	24.6	37.0	





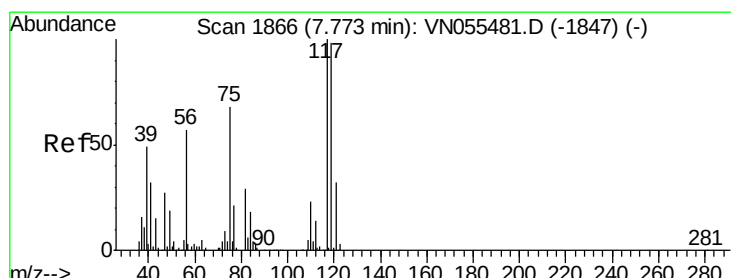
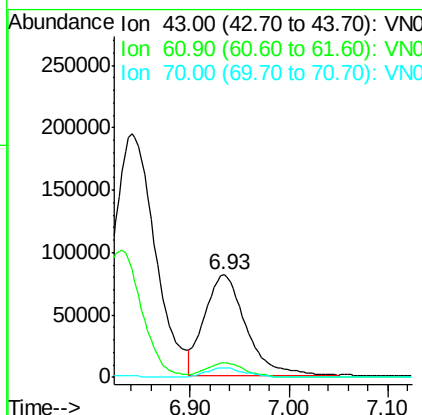
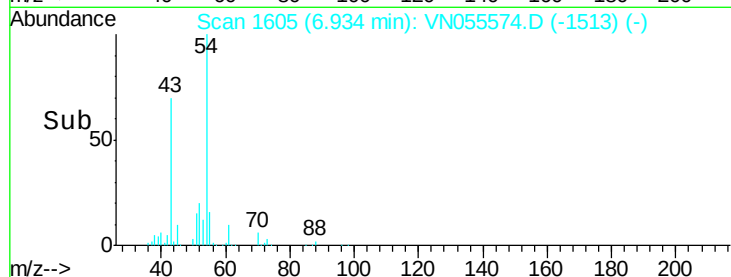
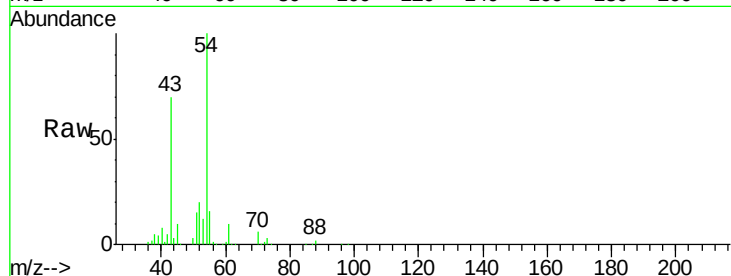
#37
Ethyl Acetate
Concen: 17.541 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
43	100	238179		
61	12.9		10.9	16.3
70	8.3		7.0	10.6

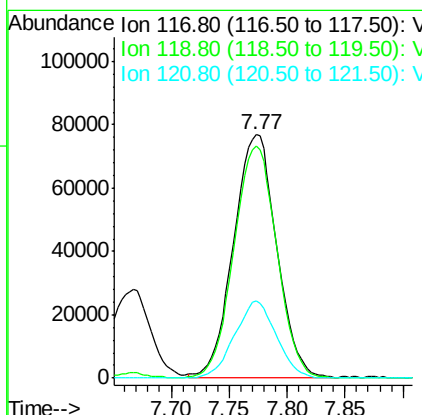
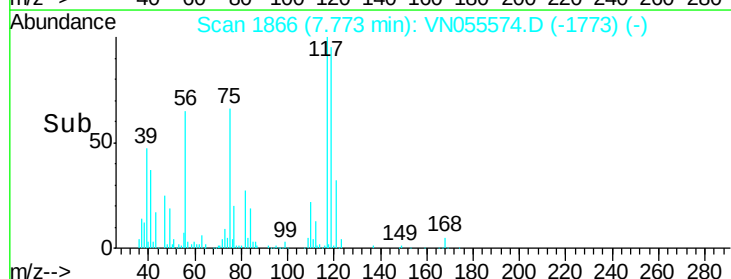
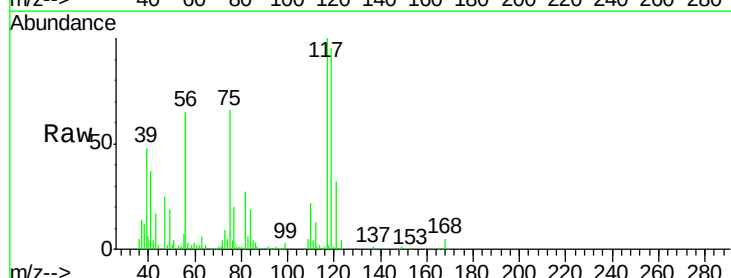
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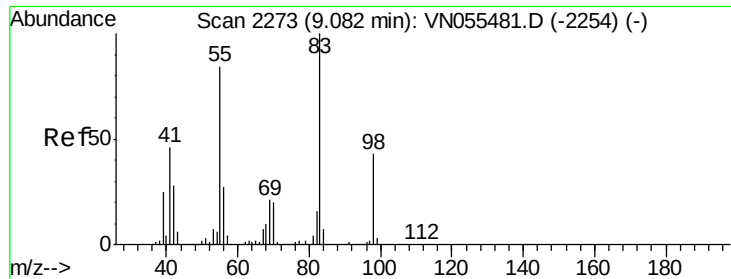
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#38
Carbon Tetrachloride
Concen: 18.873 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	197820		
119	95.5		77.8	116.6
121	31.8		25.2	37.8





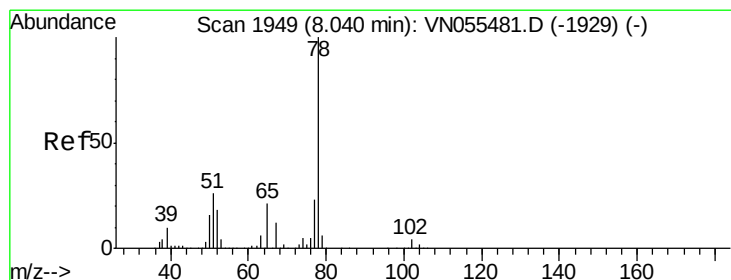
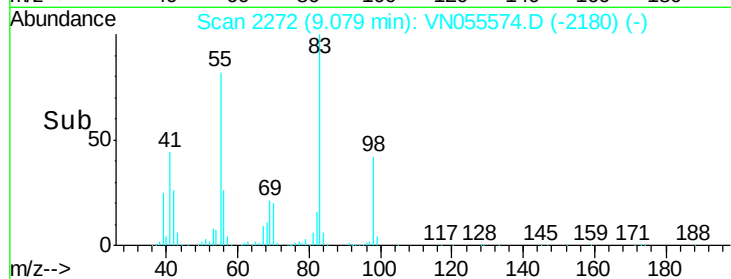
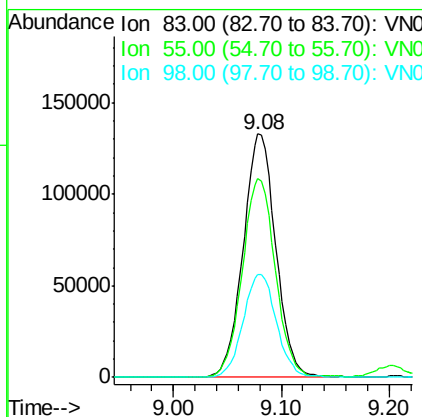
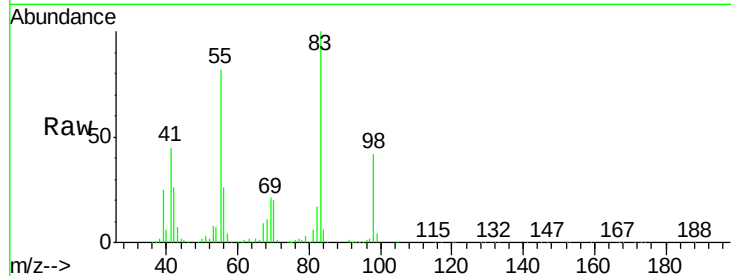
#39
Methylvlcyclohexane
Concen: 18.364 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	81.6	67.0	100.4	
98	42.2	34.2	51.4	

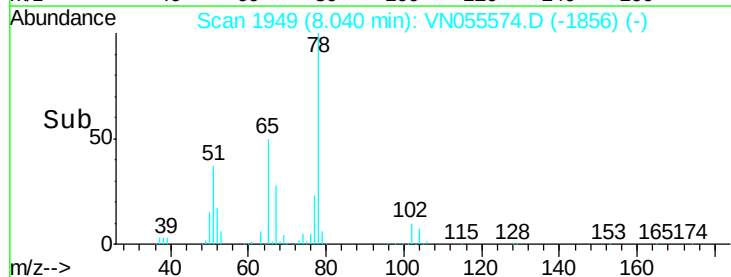
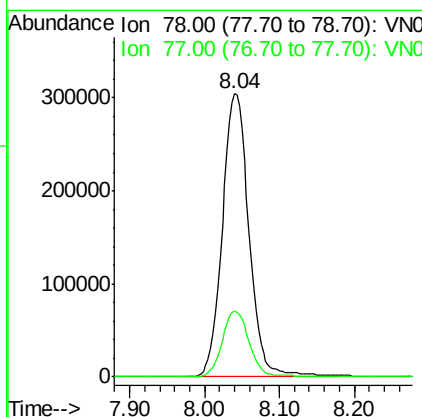
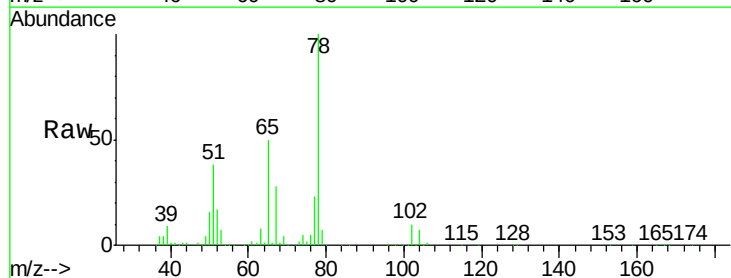
Manual Integrations
APPROVED

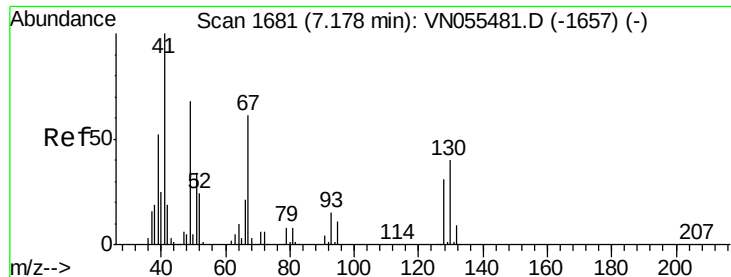
MMDadoda
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#40
Benzene
Concen: 19.465 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	18.6	27.8	





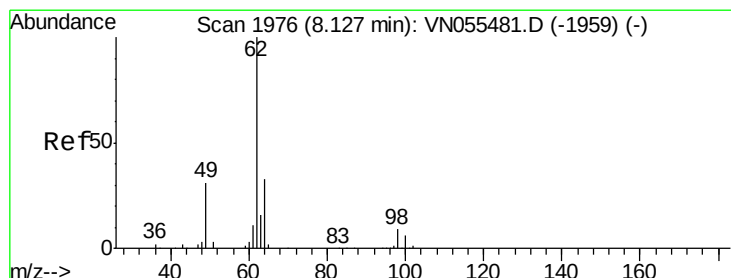
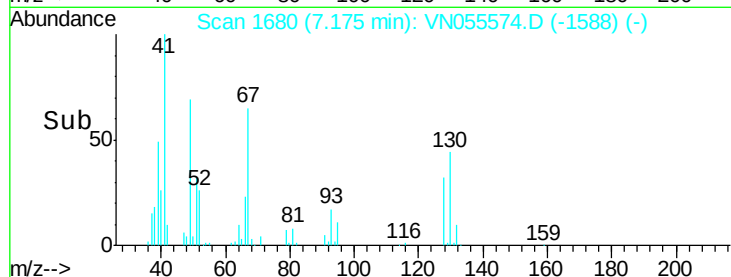
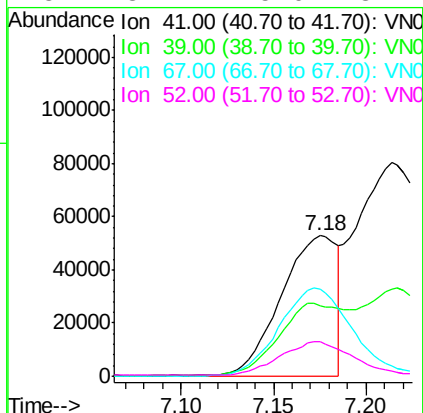
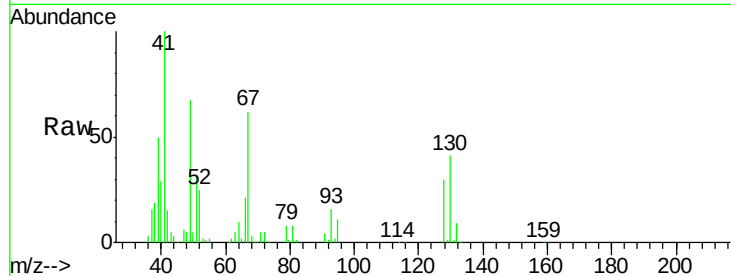
#41
Methacrylonitrile
Concen: 17.500 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	41	Resp	110289
Ion Ratio	Lower	Upper	
41	100		
39	56.8	44.7	67.1
67	83.4	61.4	92.0
52	31.7	25.0	37.4

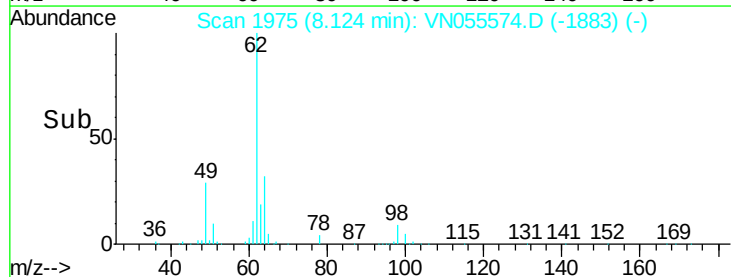
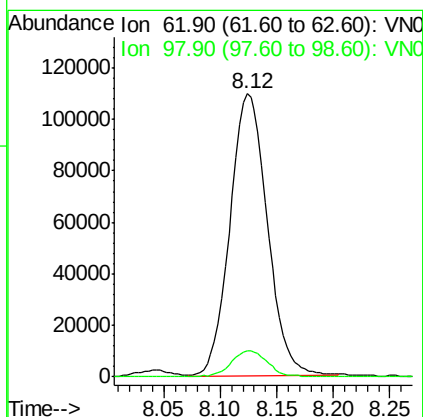
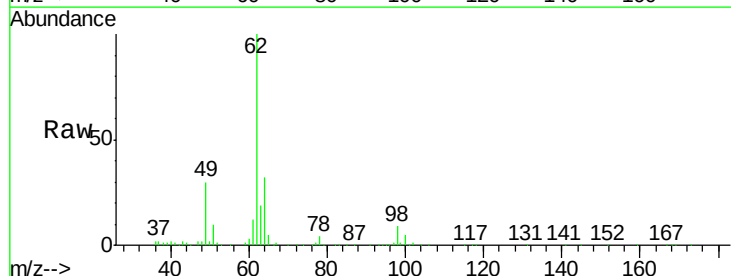
Manual Integrations
APPROVED

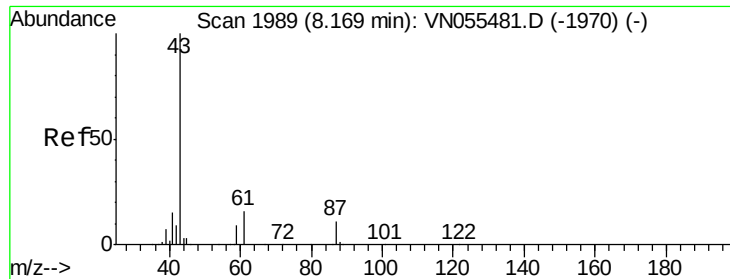
MMDadoda
5/14/2019 9:42:36 AM



#42
1,2-Dichloroethane
Concen: 18.583 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	62	Resp	252228
Ion Ratio	Lower	Upper	
62	100		
98	9.1	0.0	17.4





#43

Isopropyl Acetate

Concen: 17.648 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

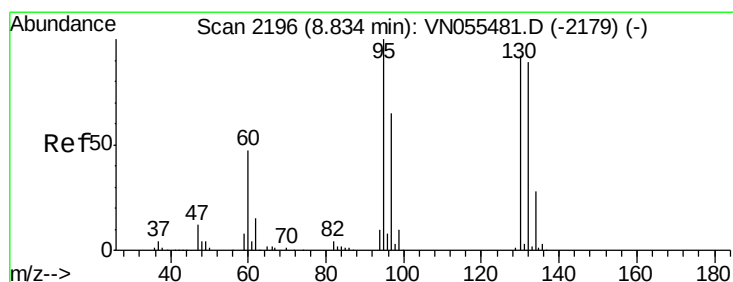
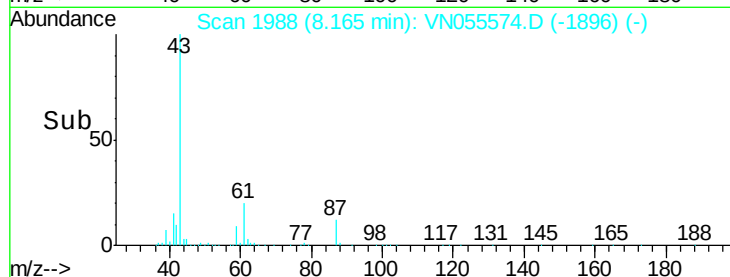
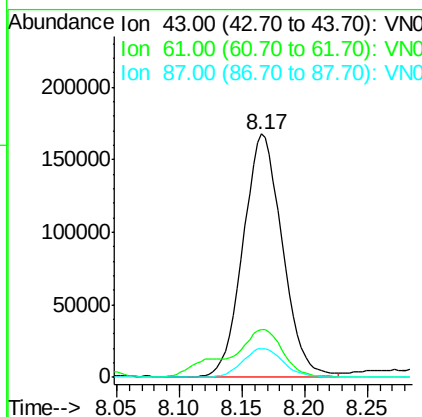
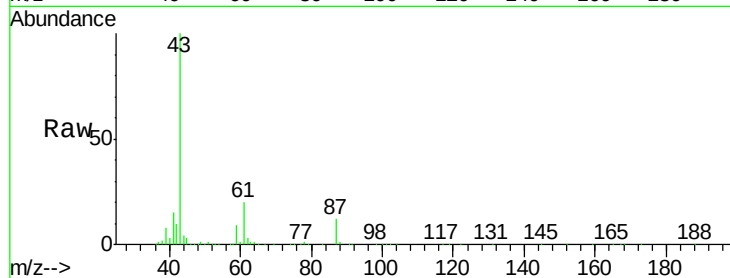
ClientSampleId :

VN0513MBSD01

Tot Ion:	43	Resp:	364064
Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.1	22.7
87	12.5	9.0	13.6

Manual Integrations
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#44

Trichloroethene

Concen: 20.125 ug/l

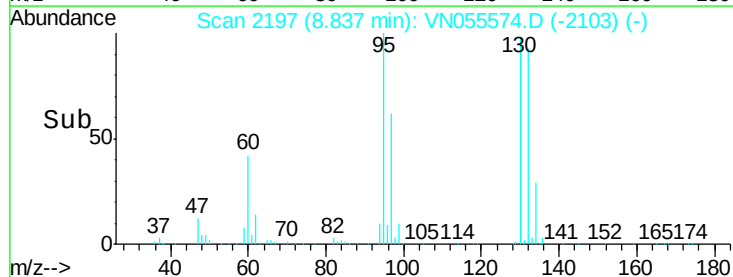
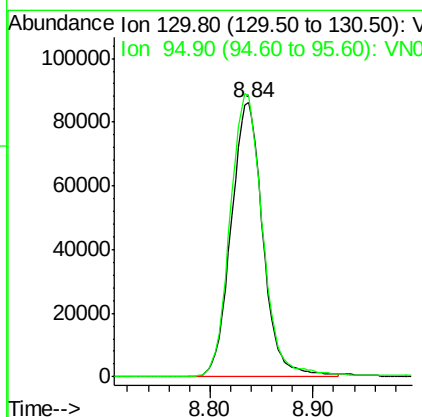
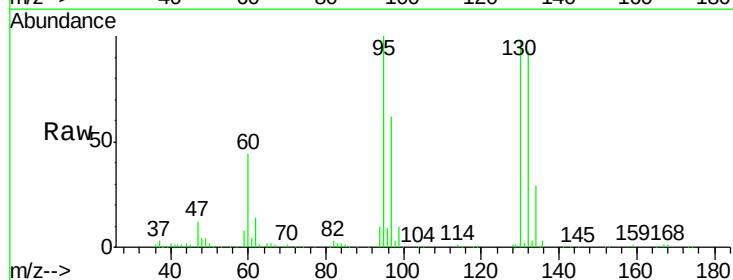
RT: 8.84 min Scan# 2197

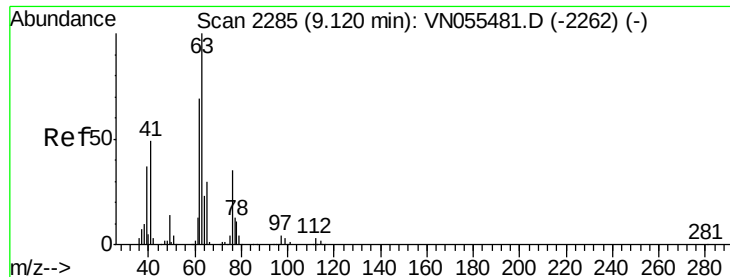
Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	130	Resp:	184993
Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	216.8





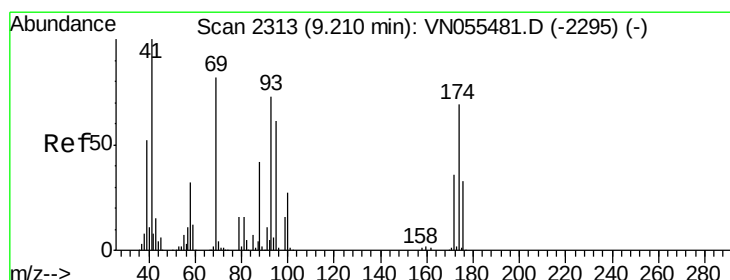
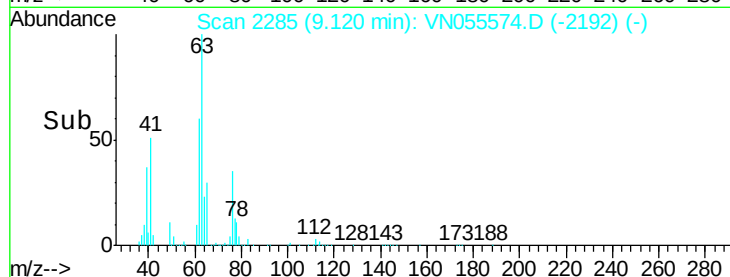
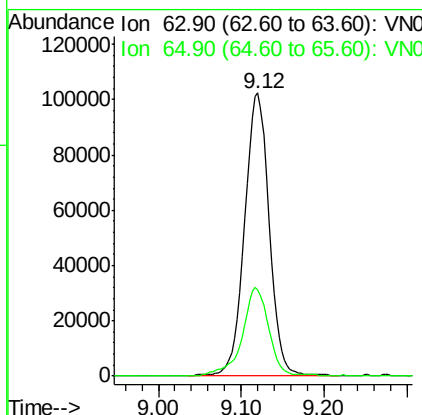
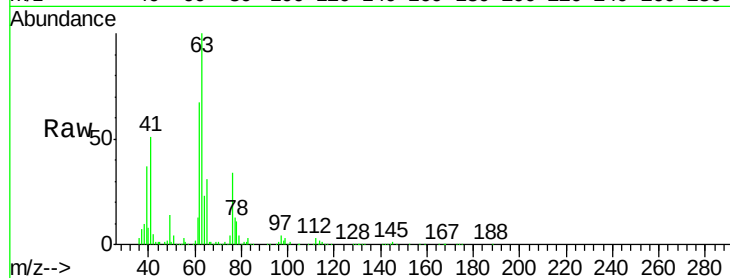
#45
 1,2-Dichloropropane
 Concen: 19.119 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.1	36.1

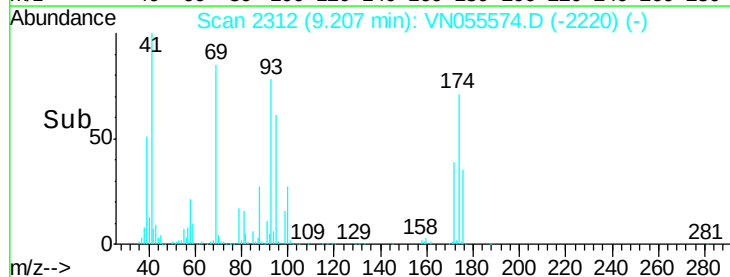
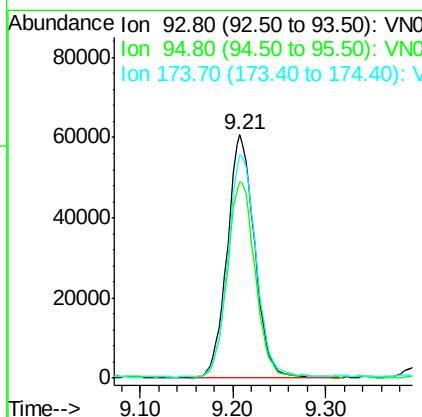
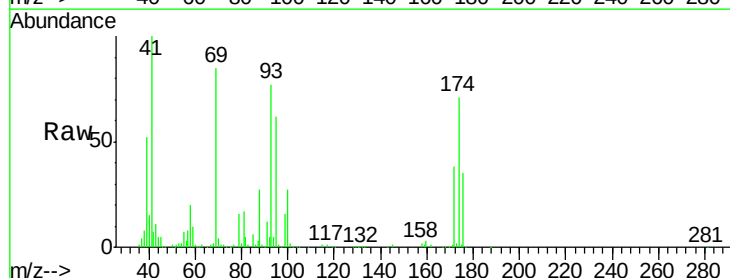
Manual Integrations
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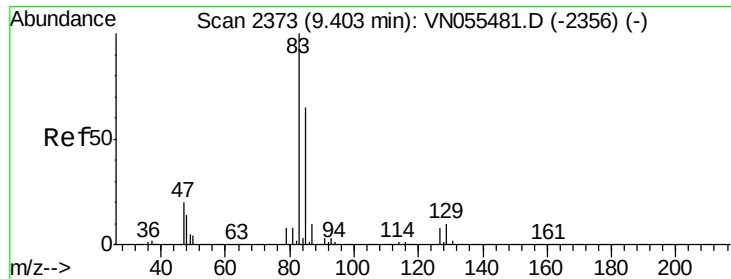
MMDadoda
 5/14/2019 9:42:36 AM



#46
 Dibromomethane
 Concen: 19.458 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
93	100		
95	80.5	64.8	97.2
174	92.7	75.0	112.6





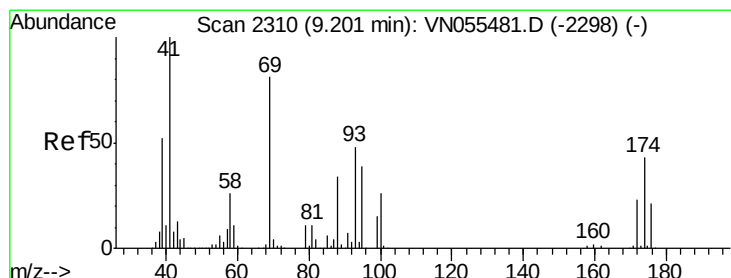
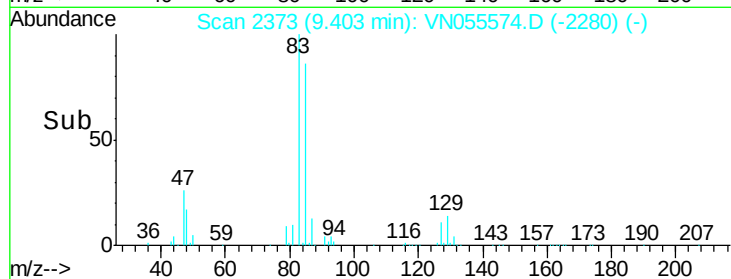
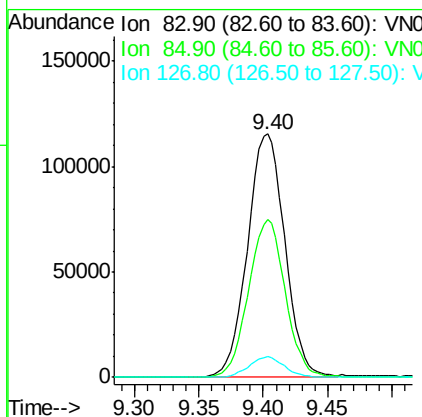
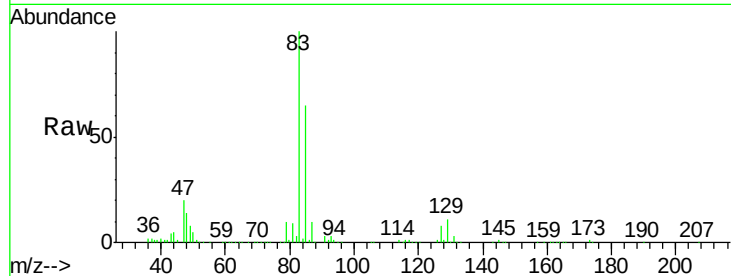
#47
Bromodichloromethane
Concen: 18.979 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	232636		
85	65.0	52.2	78.2	
127	8.4	6.5	9.7	

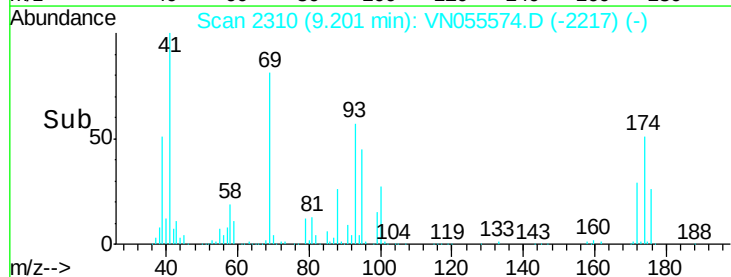
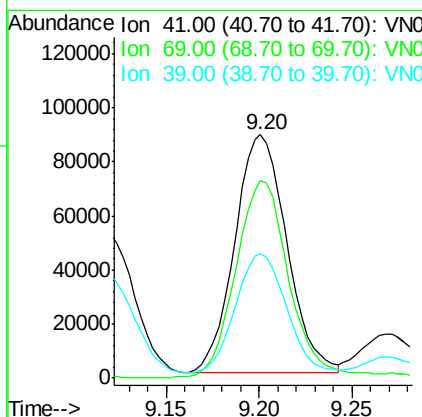
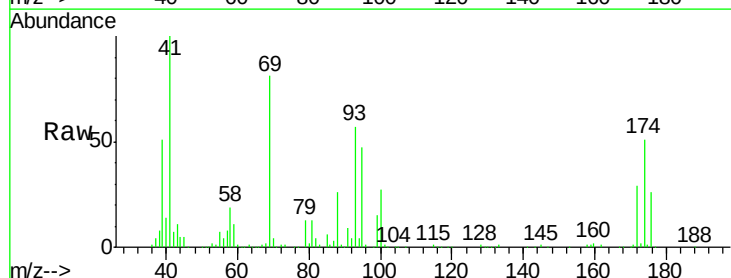
Manual Integrations
APPROVED

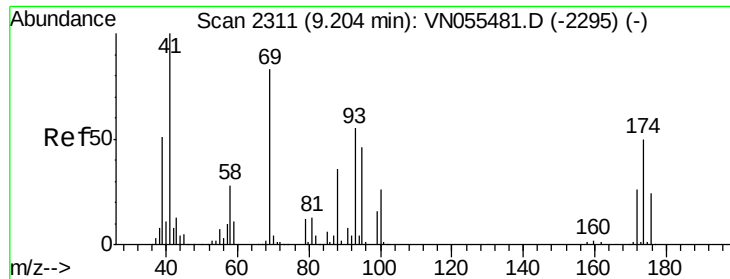
MMDadoda
5/14/2019 9:42:36 AM



#48
Methyl methacrylate
Concen: 17.207 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	171019		
69	85.1	64.2	96.2	
39	52.5	41.6	62.4	





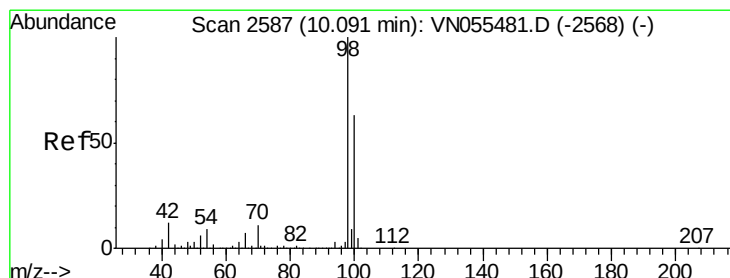
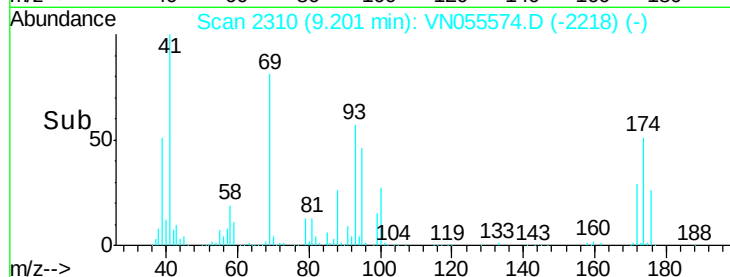
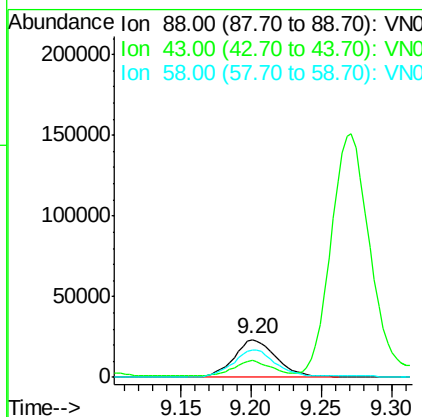
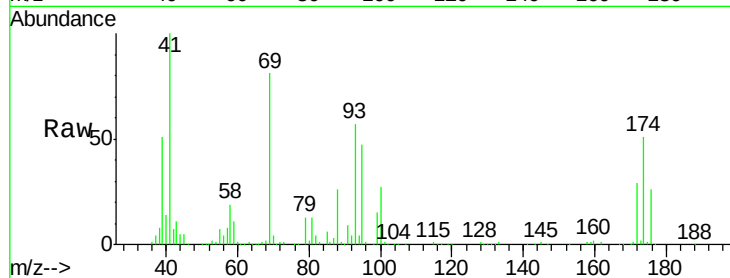
#49
 1,4-Dioxane
 Concen: 254.979 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	88	Resp	49394
Ion	Ratio	Lower	Upper
88	100		
43	35.8	27.8	41.8
58	74.6	61.8	92.6

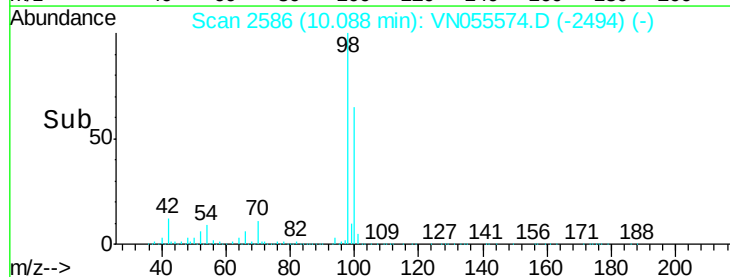
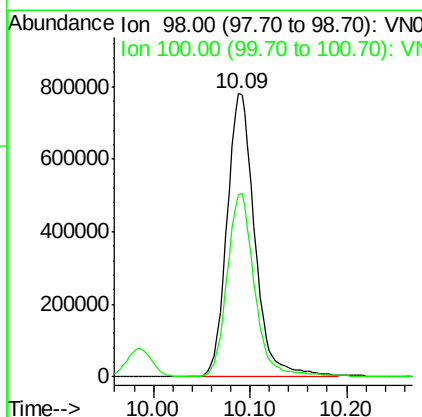
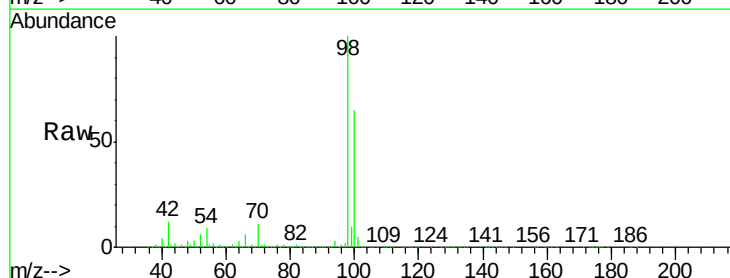
Manual Integrations
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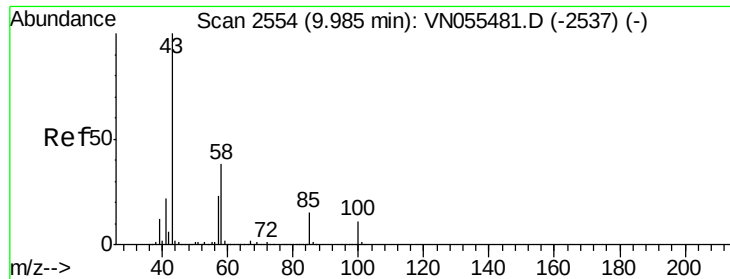
MMDadoda
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#50
 Toluene-d8
 Concen: 49.187 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	98	Resp	1562301
Ion	Ratio	Lower	Upper
98	100		
100	63.9	50.4	75.6





#51

4-Methyl-2-Pentanone

Concen: 84.995 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 43 Resp: 1153160

Ion Ratio Lower Upper

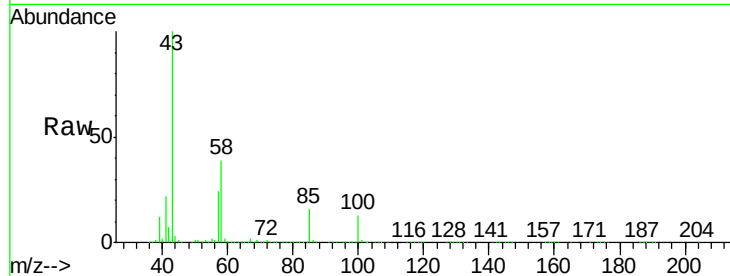
43 100

58 39.0 29.9 44.9

Manual Integrations
APPROVED

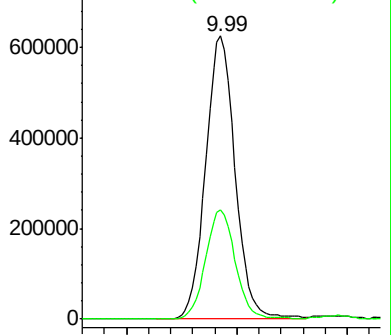
MMDadoda

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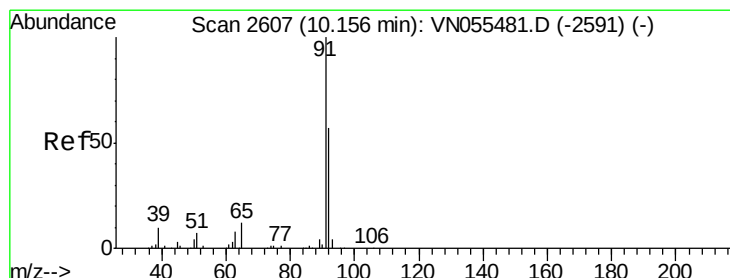
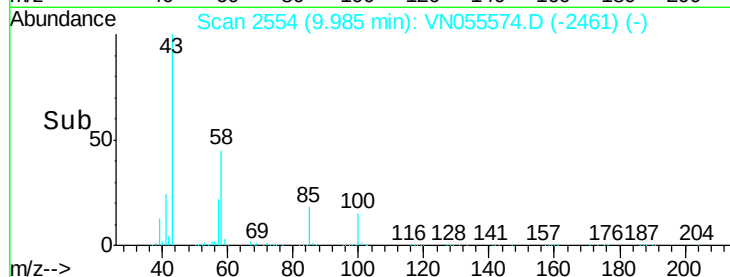


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#52

Toluene

Concen: 19.794 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN055574.D

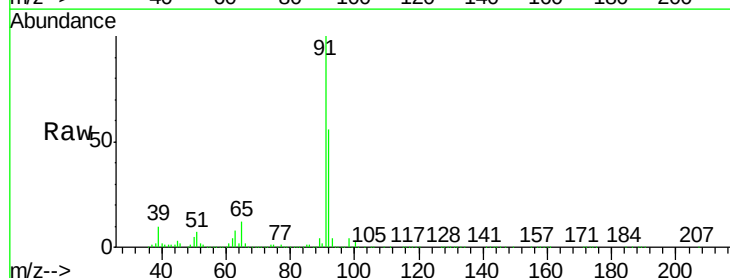
Acq: 13 May 2019 12:53

Tgt Ion: 92 Resp: 437171

Ion Ratio Lower Upper

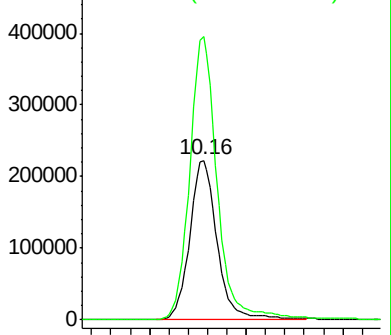
92 100

91 176.4 140.5 210.7

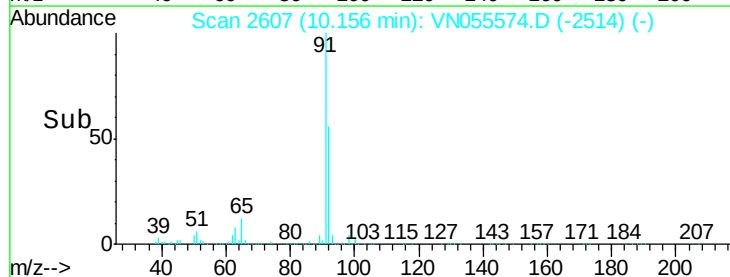


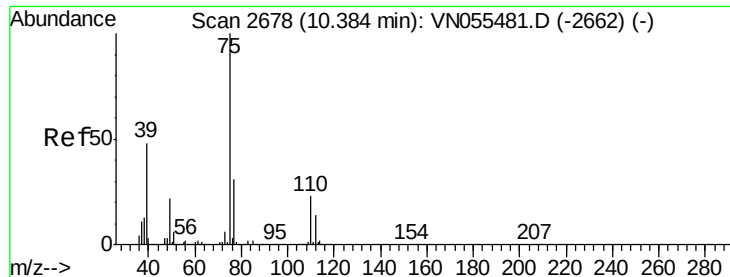
Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->





#53

t-1,3-Dichloropropene

Concen: 19.365 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 75 Resp: 227970

Ion Ratio Lower Upper

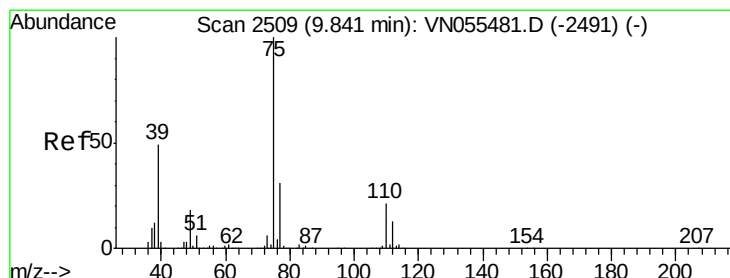
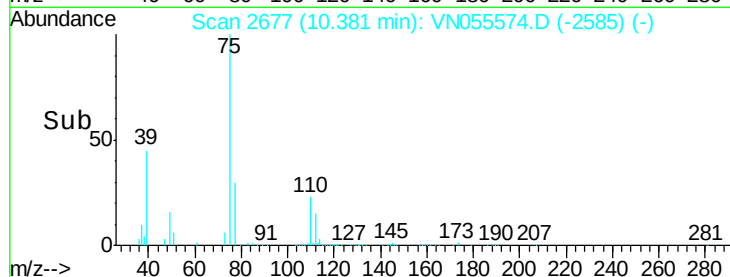
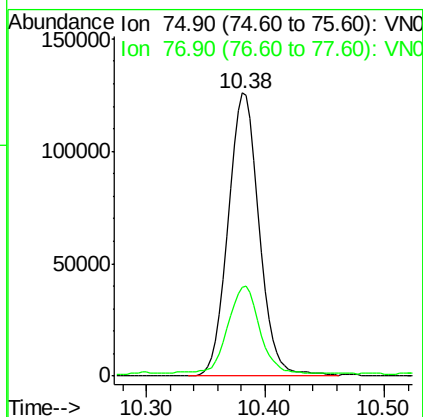
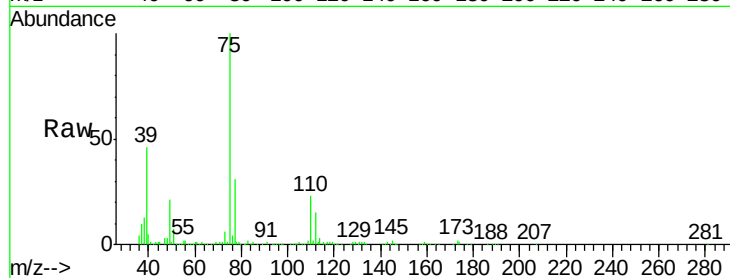
75 100

77 30.4 25.1 37.7

Manual Integrations
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#54

cis-1,3-Dichloropropene

Concen: 19.542 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

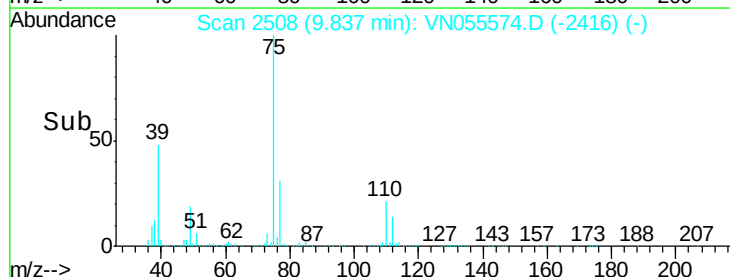
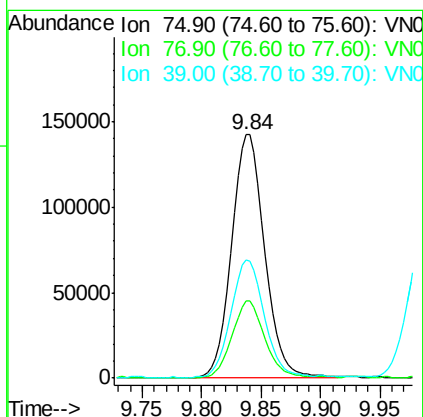
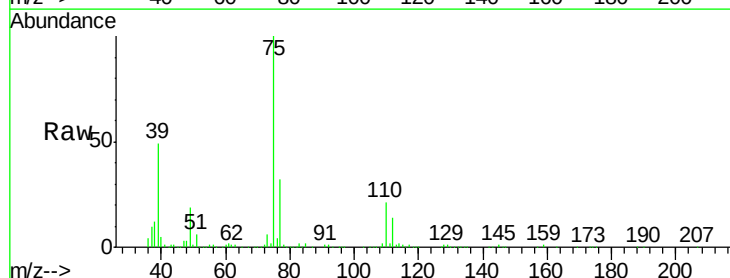
Tgt Ion: 75 Resp: 274905

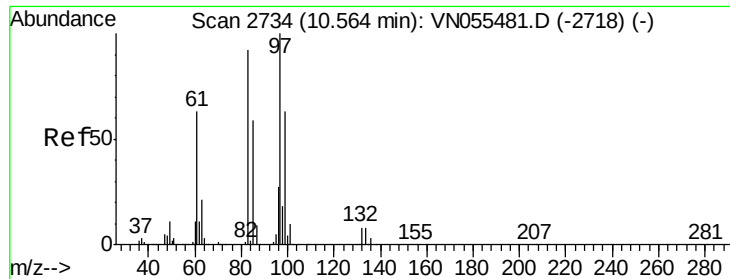
Ion Ratio Lower Upper

75 100

77 31.3 24.4 36.6

39 48.3 39.5 59.3





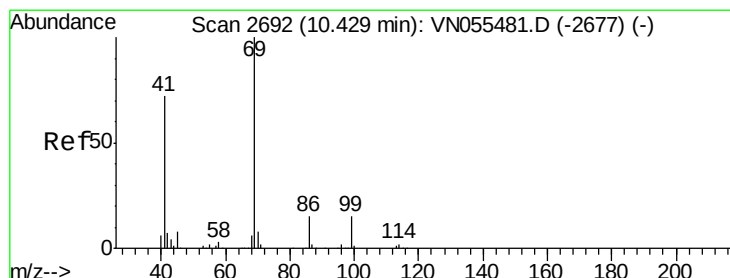
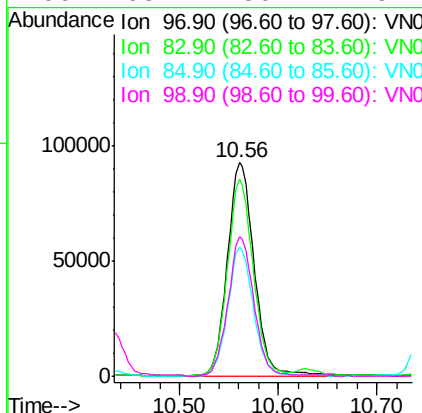
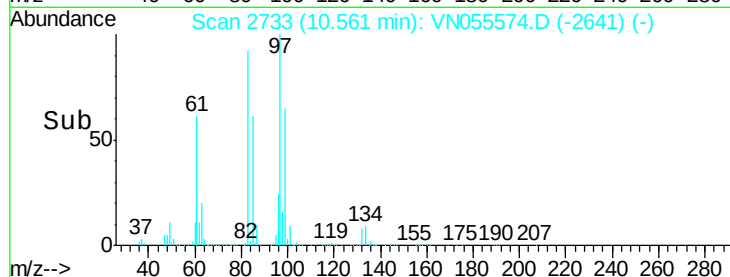
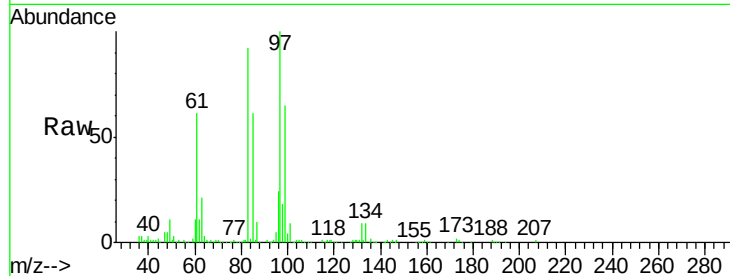
#55
 1,1,2-Trichloroethane
 Concen: 19.597 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion:	97	Resp:	175364
Ion	Ratio	Lower	Upper
97	100		
83	92.0	73.2	109.8
85	60.7	47.5	71.3
99	65.2	50.2	75.2

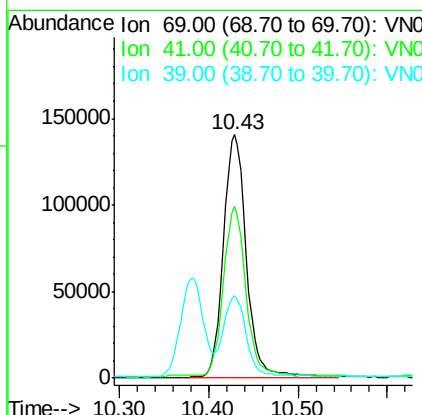
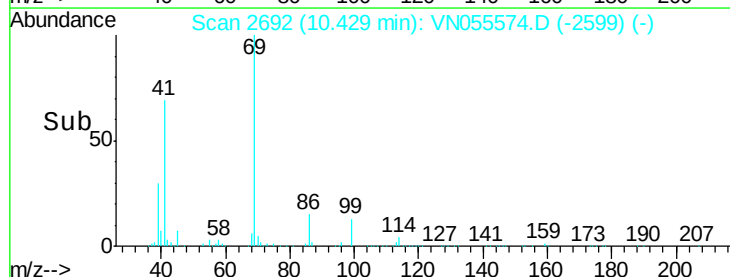
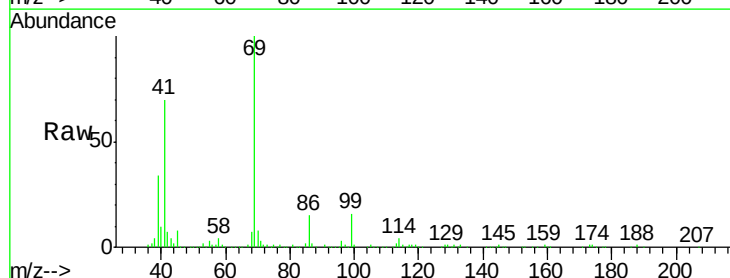
Manual Integrations
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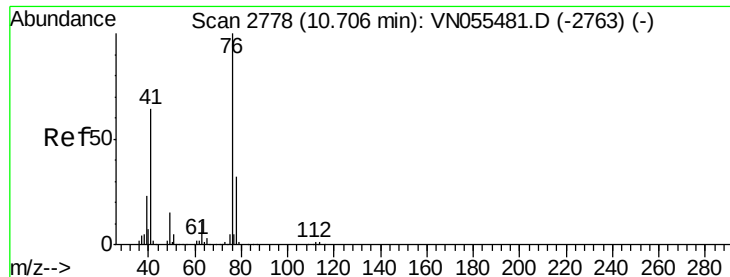
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#56
 Ethyl methacrylate
 Concen: 18.690 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion:	69	Resp:	248771
Ion	Ratio	Lower	Upper
69	100		
41	68.0	56.2	84.2
39	31.5	27.8	41.6





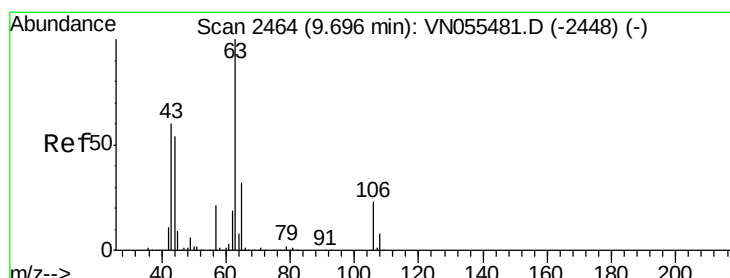
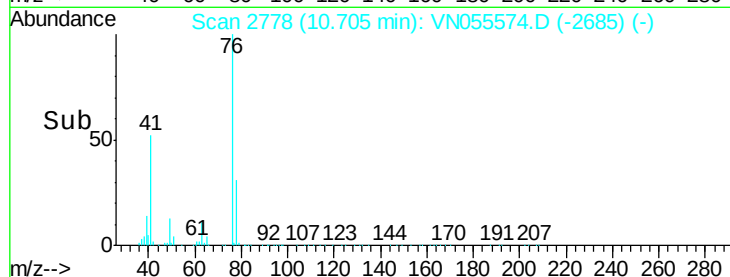
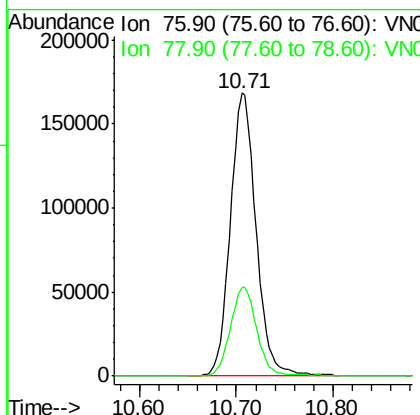
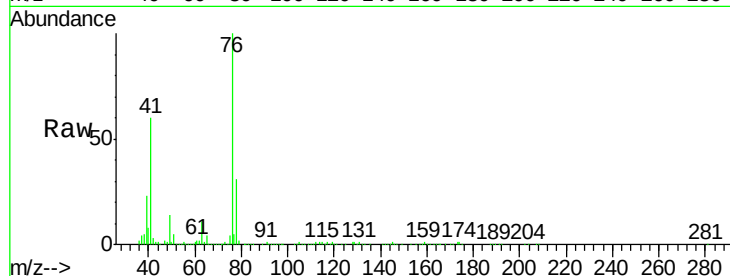
#57
 1,3-Dichloropropane
 Concen: 19.616 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.4	25.8	38.6

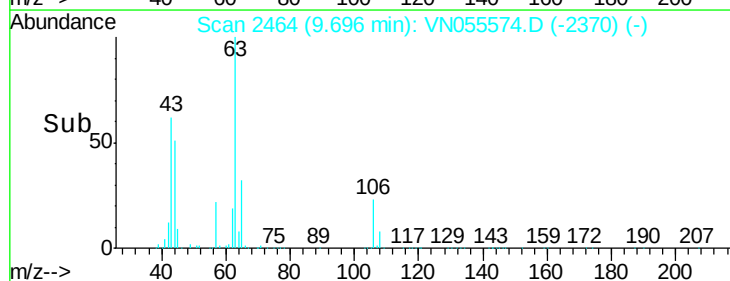
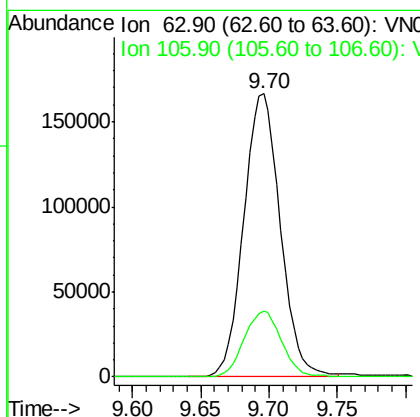
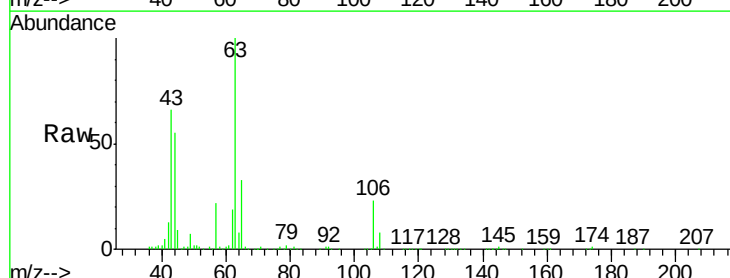
Manual Integrations
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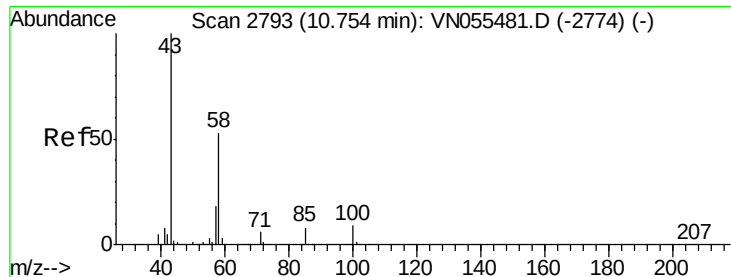
MMDadoda
 5/14/2019 9:42:36 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 78.174 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	24.0	18.6	27.8





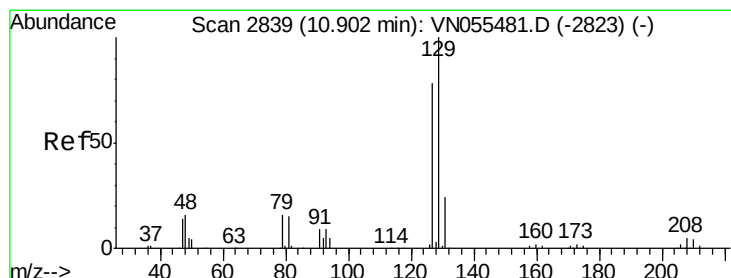
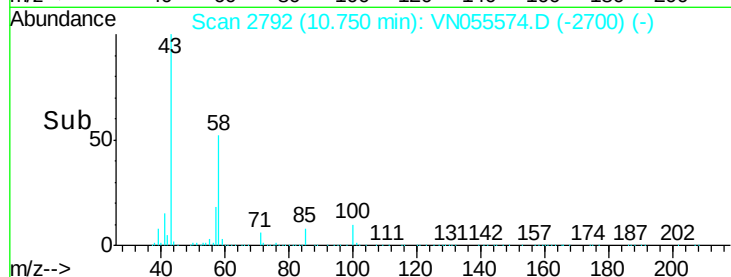
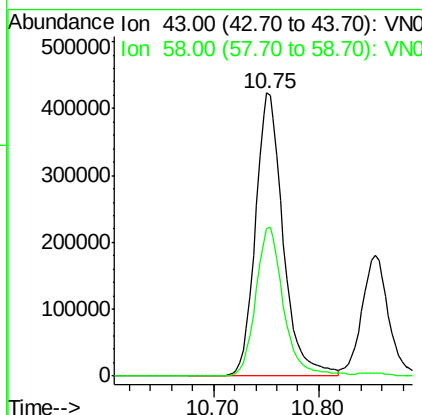
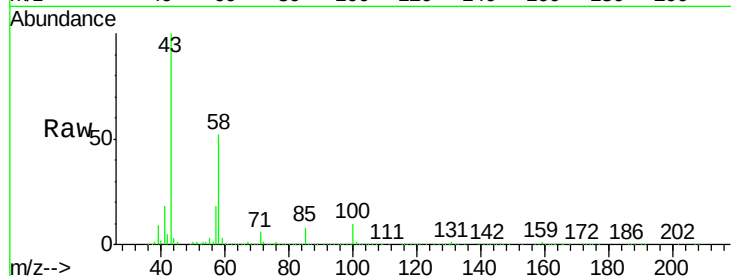
#59
2-Hexanone
Concen: 81.104 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion: 43 Resp: 771684
Ion Ratio Lower Upper
43 100
58 52.9 26.4 79.0

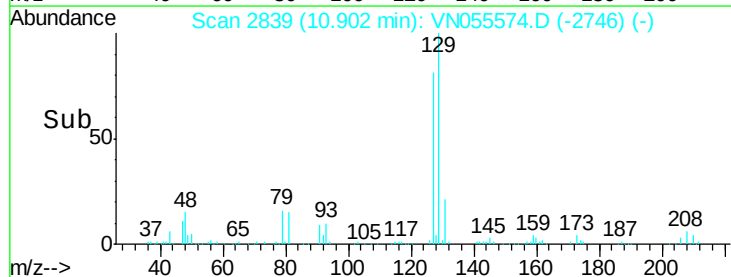
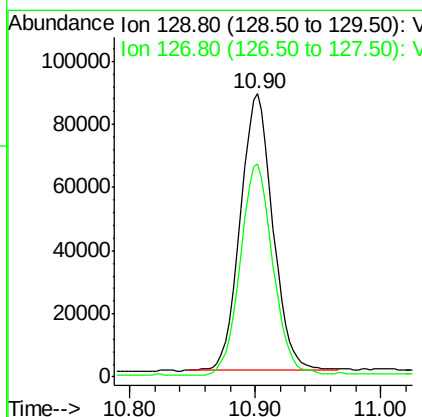
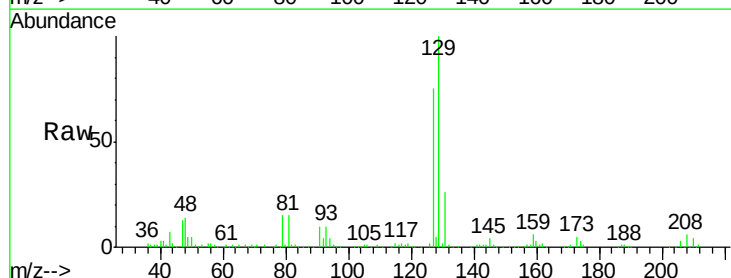
Manual Integrations
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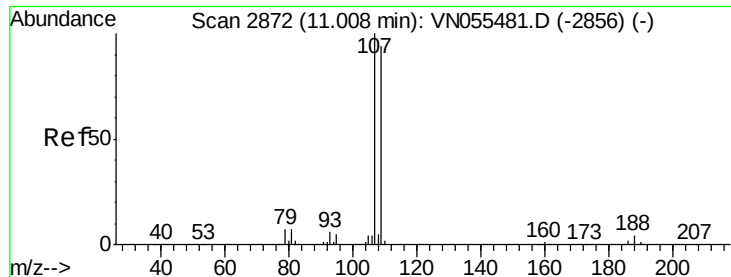
MMDadoda
5/14/2019 9:42:36 AM



#60
Dibromochloromethane
Concen: 19.470 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion: 129 Resp: 158410
Ion Ratio Lower Upper
129 100
127 76.9 38.6 116.0





#61

1,2-Dibromoethane

Concen: 19.185 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion: 107 Resp: 164951

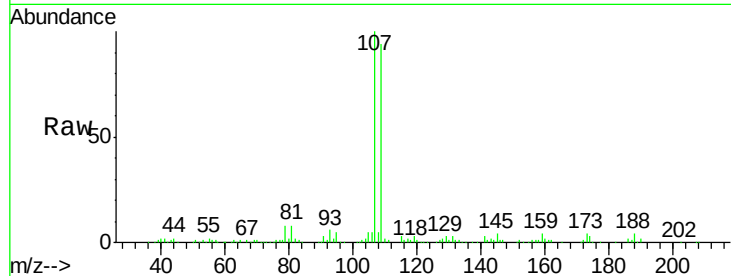
Ion Ratio Lower Upper

107 100

109 95.4 74.2 111.4

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.00

100000

80000

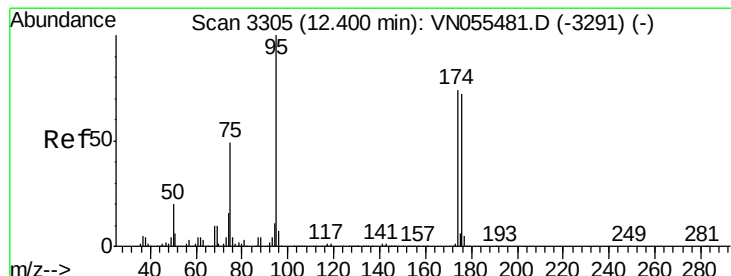
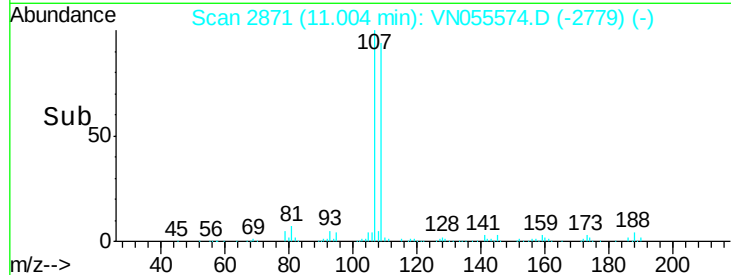
60000

40000

20000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 50.495 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

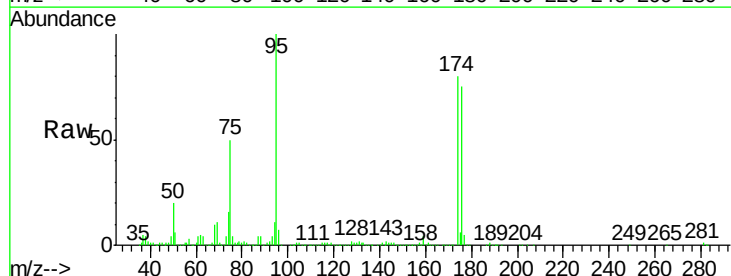
Tgt Ion: 95 Resp: 540793

Ion Ratio Lower Upper

95 100

174 76.9 0.0 152.2

176 75.6 0.0 147.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

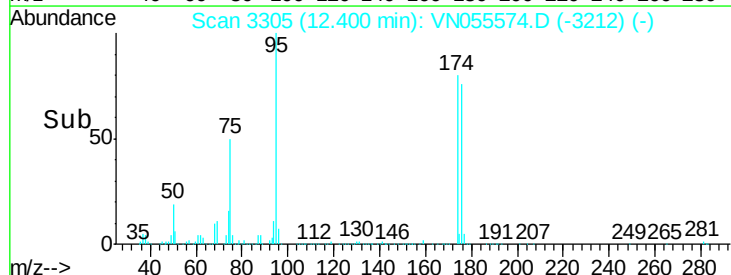
300000

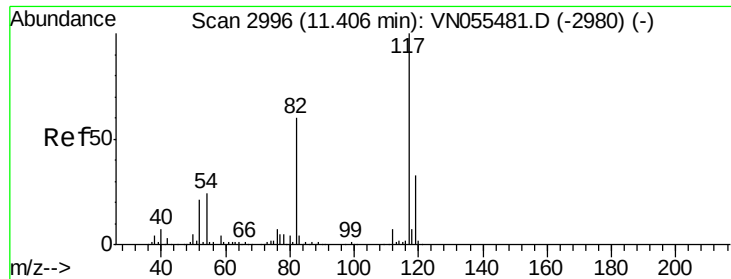
200000

100000

0

Time--> 12.30 12.40 12.50





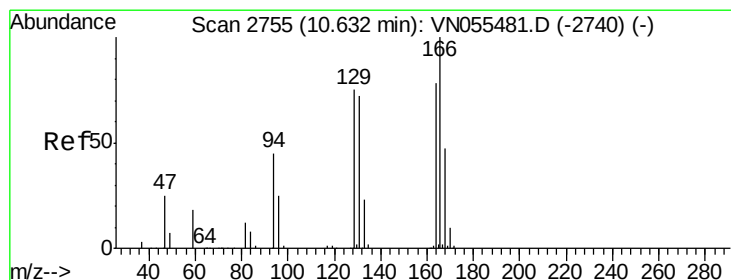
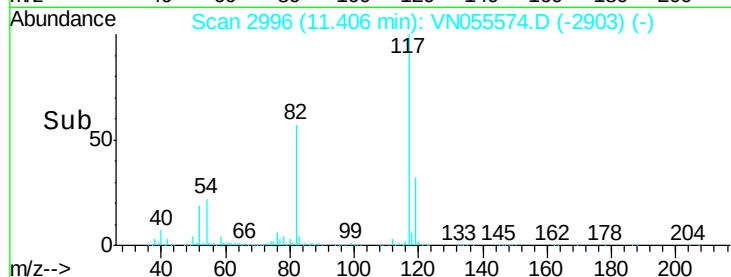
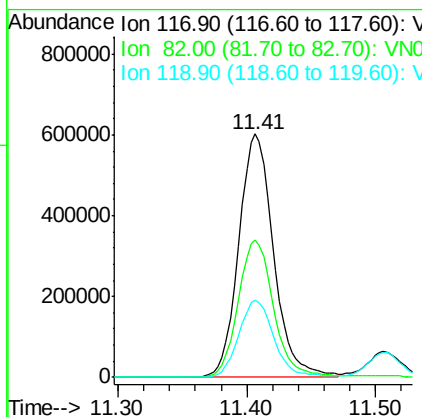
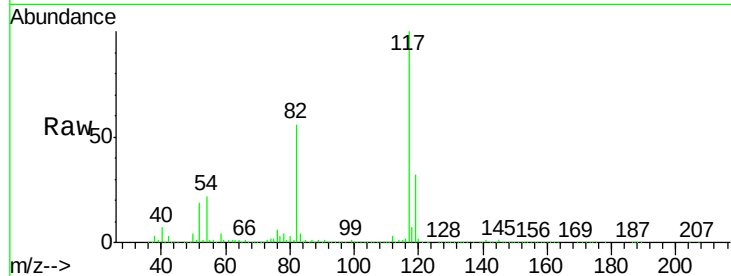
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion:117 Resp: 1122483
Ion Ratio Lower Upper
117 100
82 56.4 48.0 72.0
119 31.9 26.0 39.0

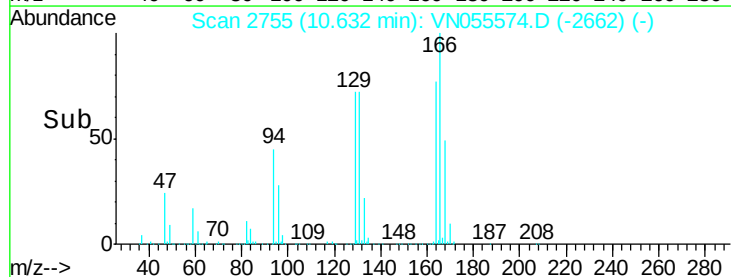
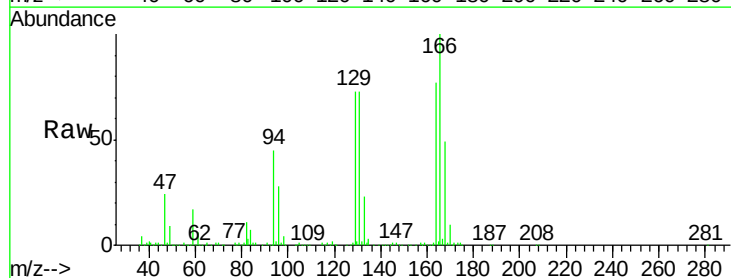
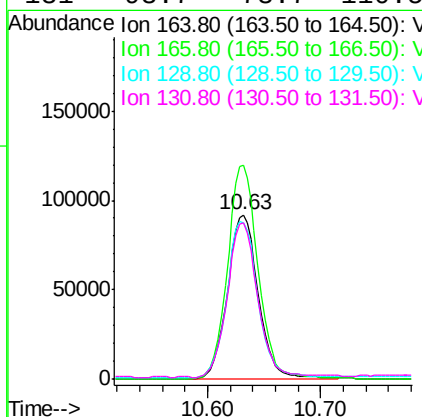
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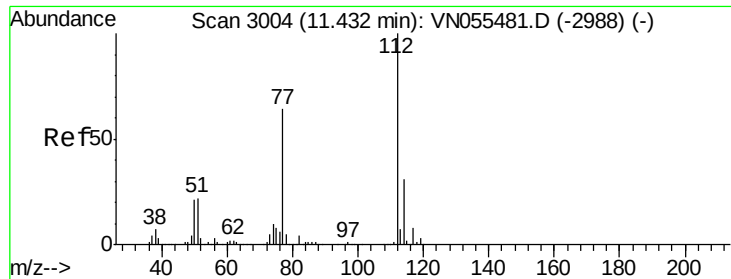
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#64
Tetrachloroethene
Concen: 18.919 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion:164 Resp: 174007
Ion Ratio Lower Upper
164 100
166 130.0 102.6 153.8
129 94.1 77.0 115.6
131 93.7 73.7 110.5





#65

Chlorobenzene

Concen: 19.868 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion:112 Resp: 458830

Ion Ratio Lower Upper

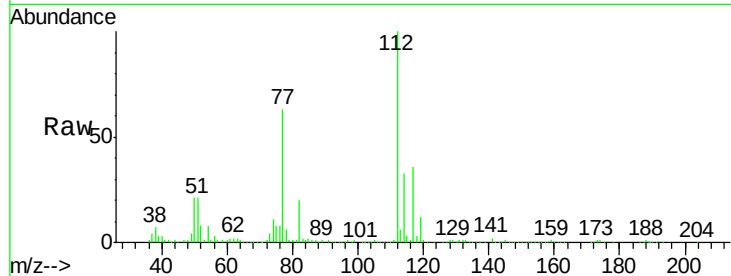
112 100

114 32.6 25.0 37.4

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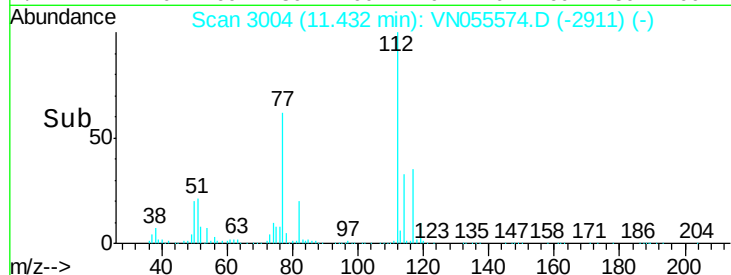
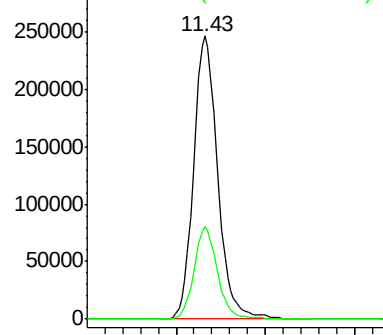
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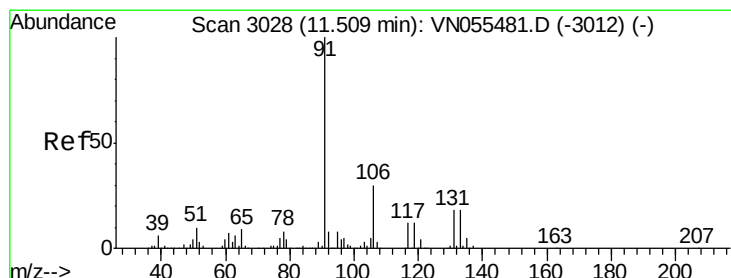


Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.572 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

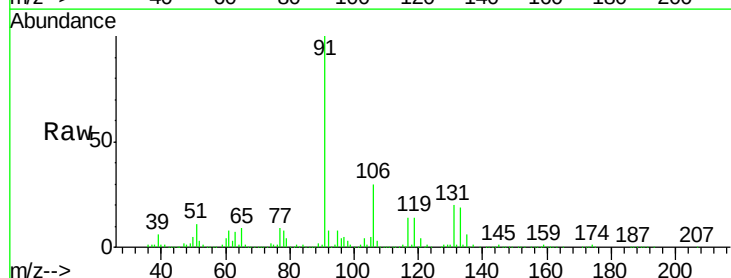
Tgt Ion:131 Resp: 155603

Ion Ratio Lower Upper

131 100

133 94.8 47.4 142.2

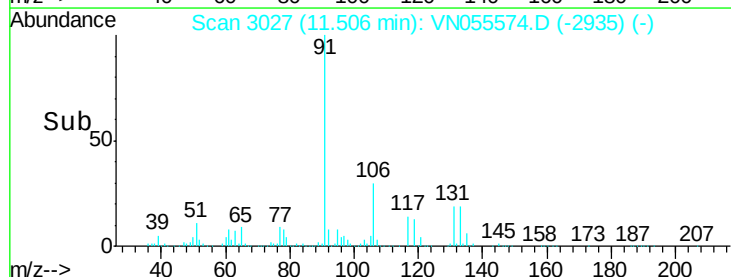
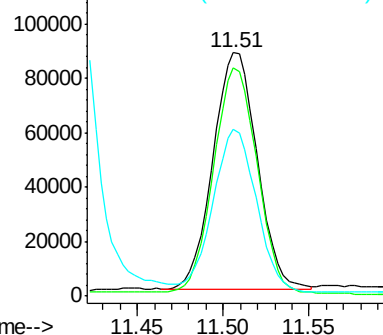
119 68.5 34.1 102.2



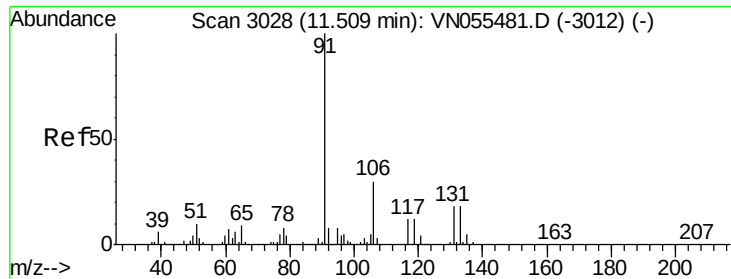
Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



Time-->



#67

Ethyl Benzene

Concen: 19.281 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampled :

VN0513MBSD01

Tot Ion: 91 Resp: 836286

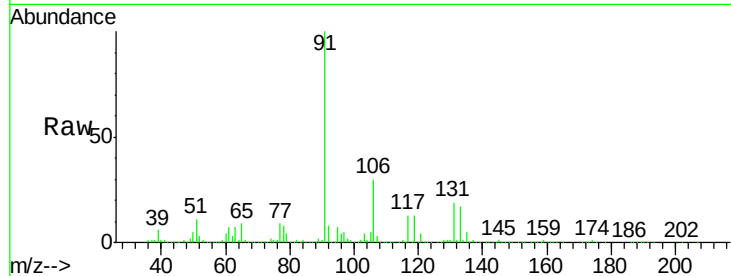
Ion Ratio Lower Upper

91 100

106 30.1 23.8 35.6

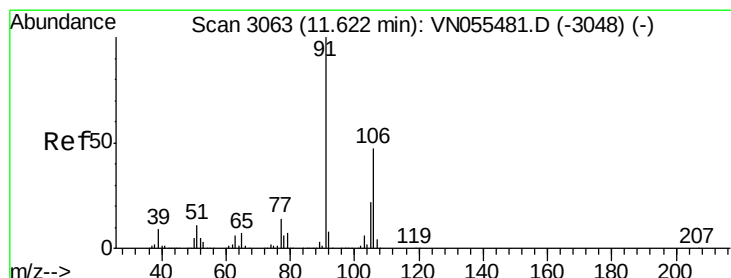
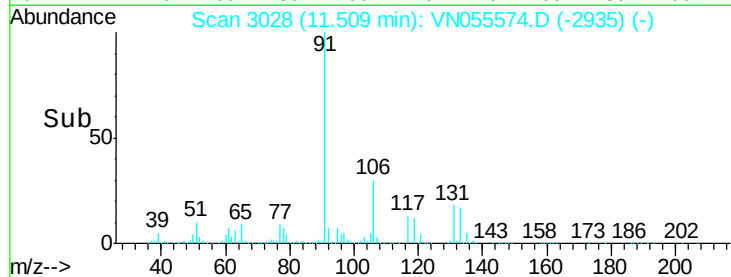
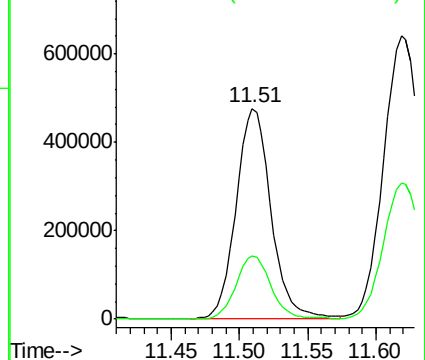
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Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 39.601 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN055574.D

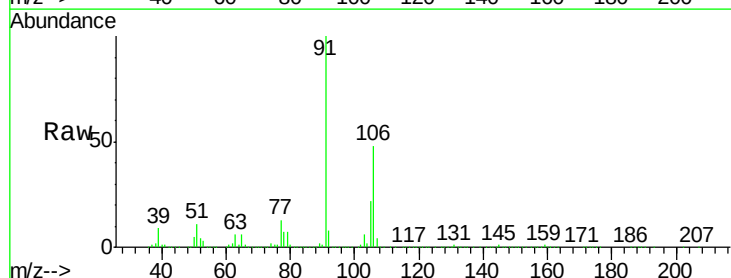
Acq: 13 May 2019 12:53

Tgt Ion: 106 Resp: 616403

Ion Ratio Lower Upper

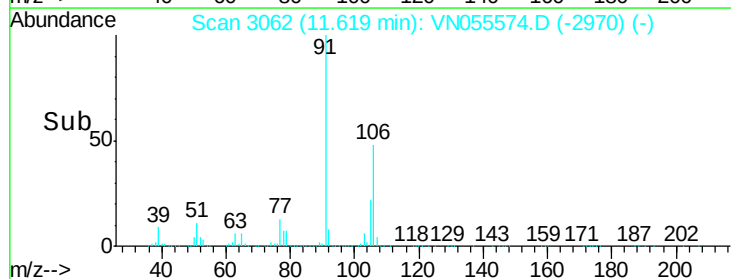
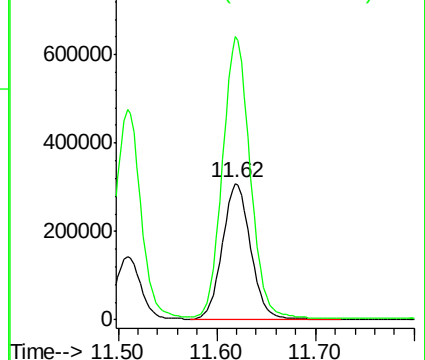
106 100

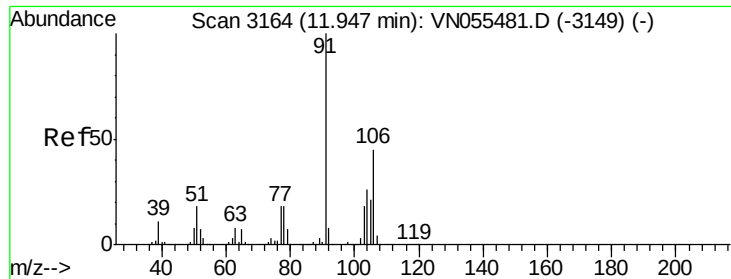
91 203.6 169.2 253.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





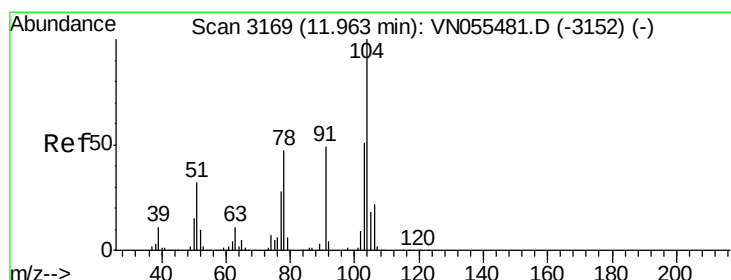
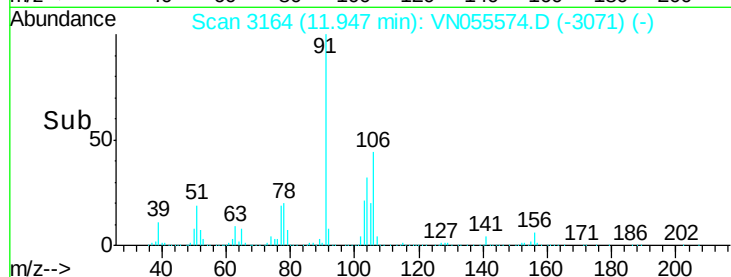
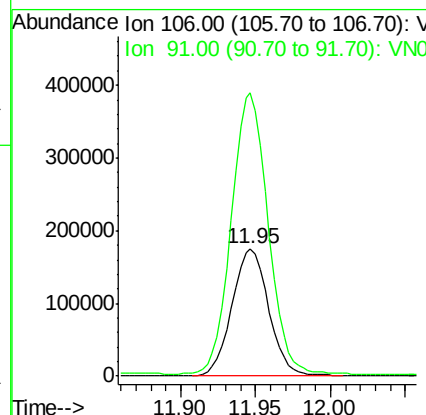
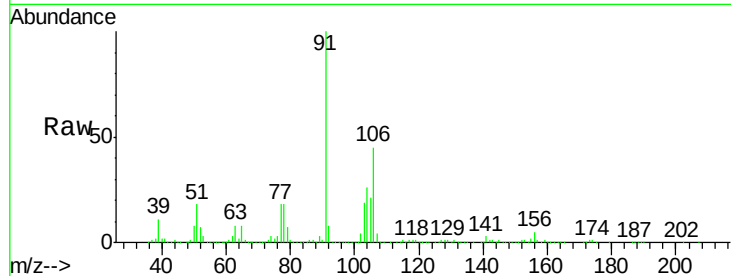
#69
o-Xylene
Concen: 19.255 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	294578		
91	91	223.8		111.3	333.8

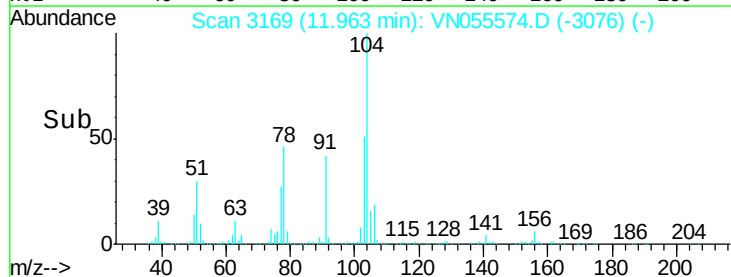
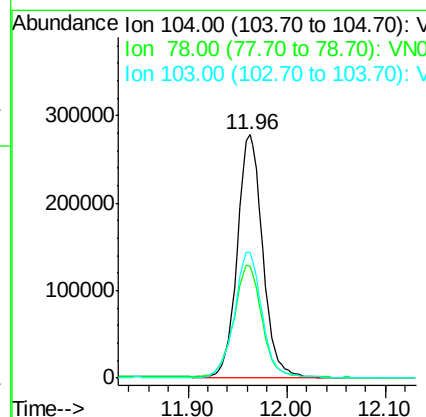
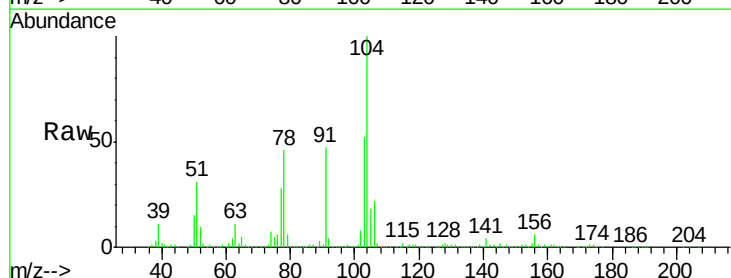
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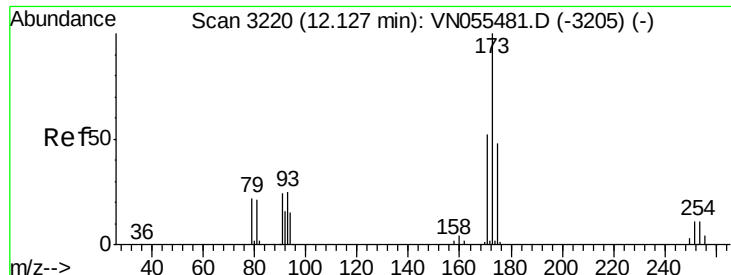
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#70
Styrene
Concen: 20.277 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	496995		
78	78	50.6		41.6	62.4
103	103	55.5		44.4	66.6





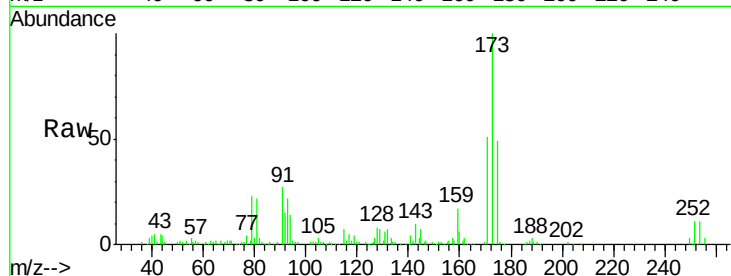
#71
Bromoform
Concen: 19.468 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

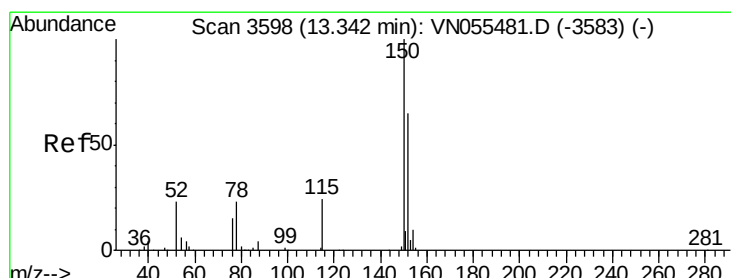
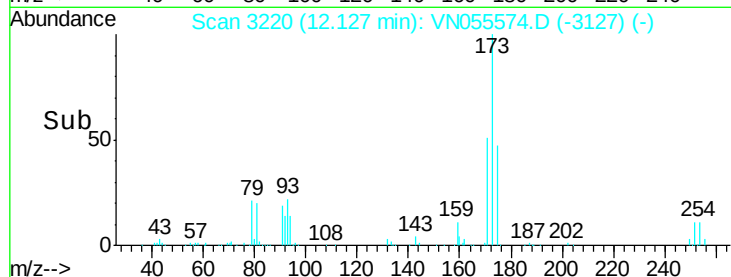
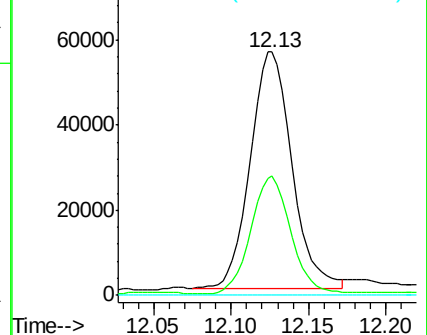
Tot Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.1	72.4
254	0.0	0.1	0.1

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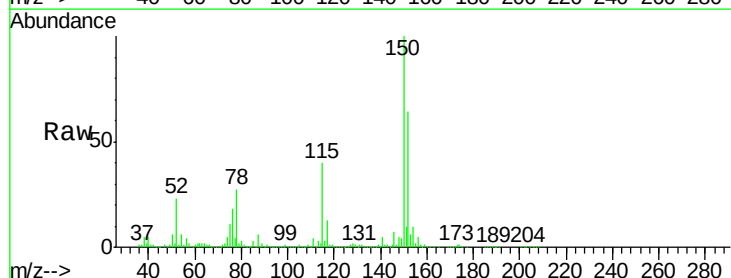


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

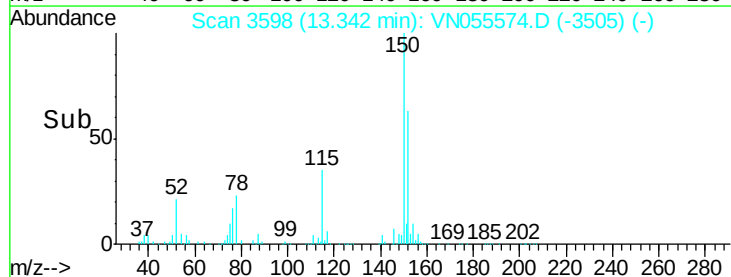
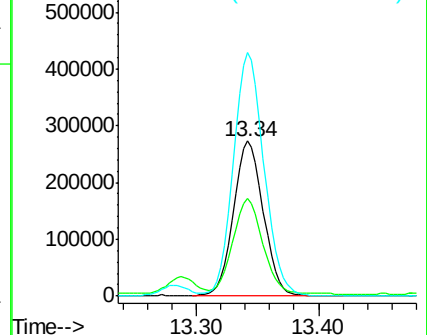


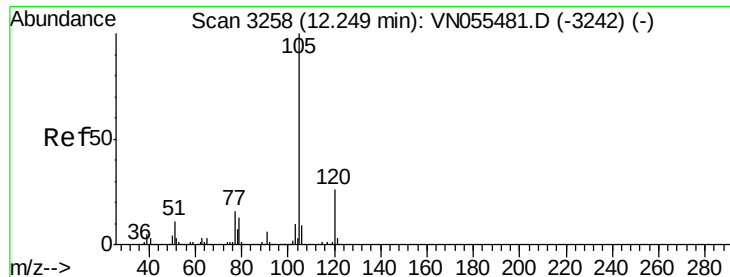
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.9	30.1	90.5
150	162.1	0.0	355.0



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: 19.277 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion:105 Resp: 792740

Ion Ratio Lower Upper

105 100

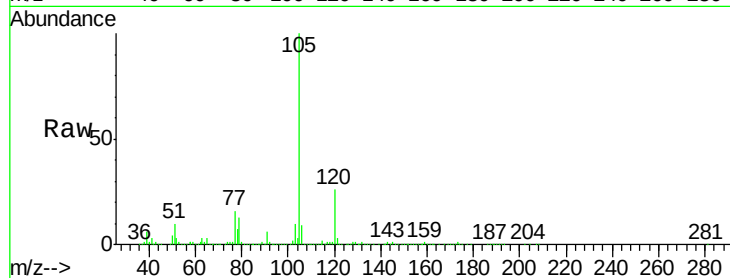
120 26.0 13.0 39.0

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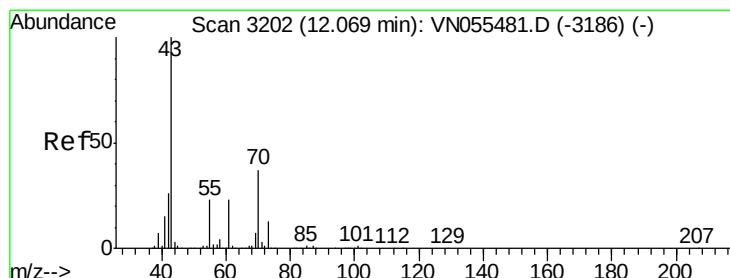
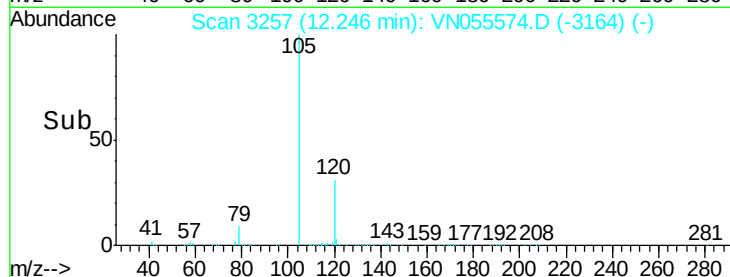
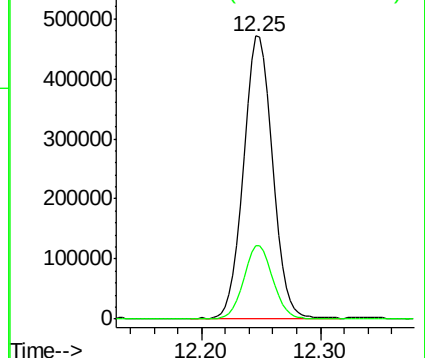
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 15.672 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion: 43 Resp: 274804

Ion Ratio Lower Upper

43 100

70 41.9 30.7 46.1

55 26.0 19.3 28.9

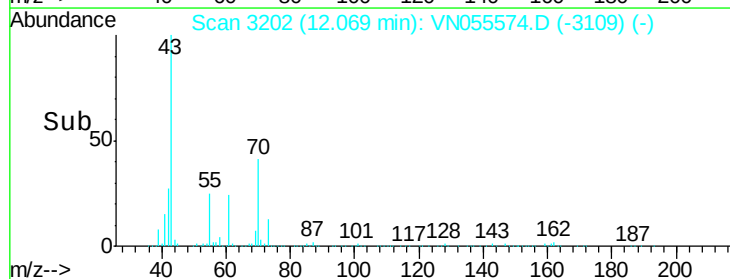
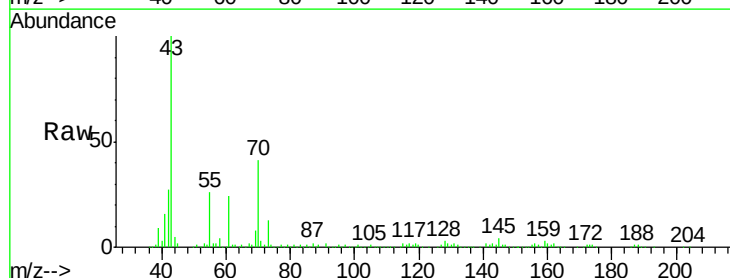
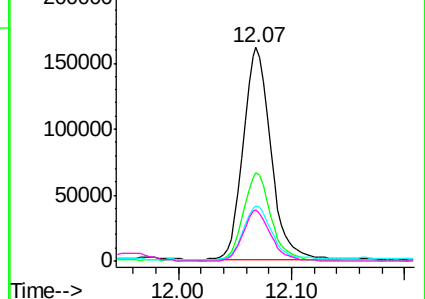
61 23.9 18.6 27.8

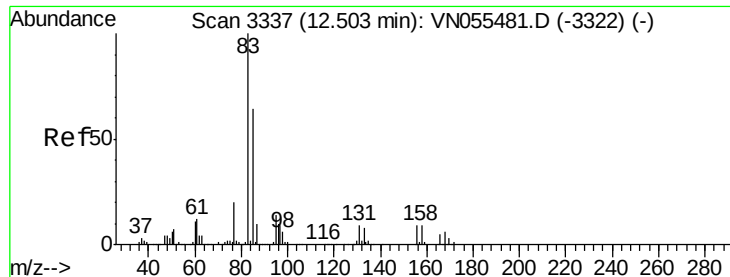
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 17.804 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

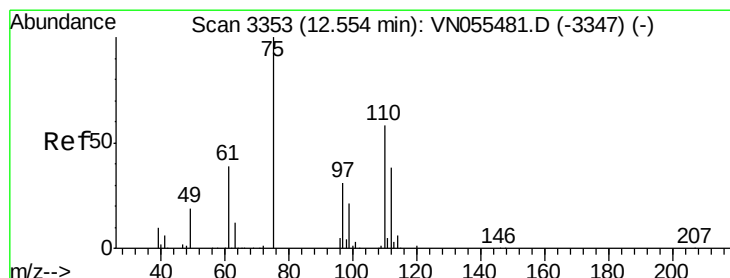
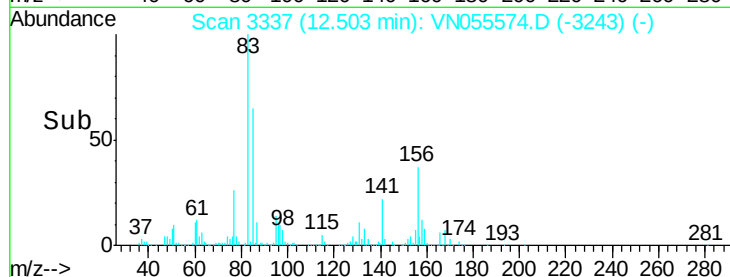
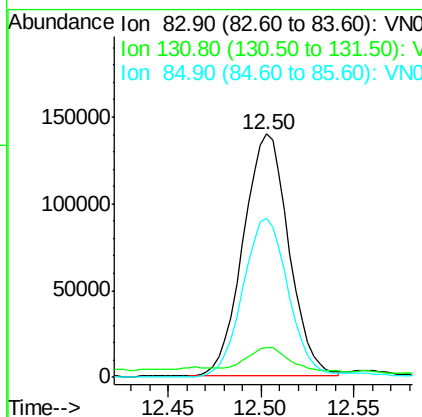
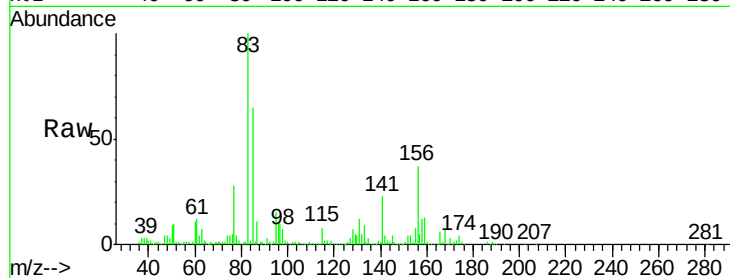
ClientSampled :

VN0513MBSD01

Tot Ion:	83	Resp:	239948
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.5	13.5
85	65.0	32.0	96.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 16.248 ug/l m

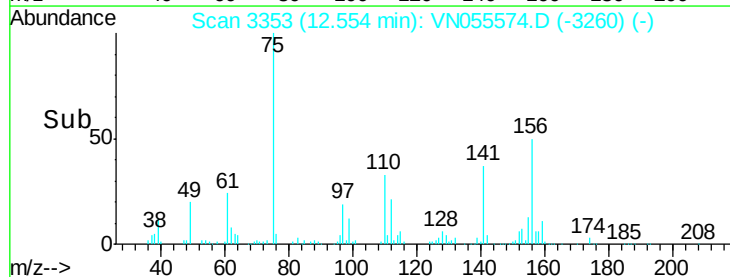
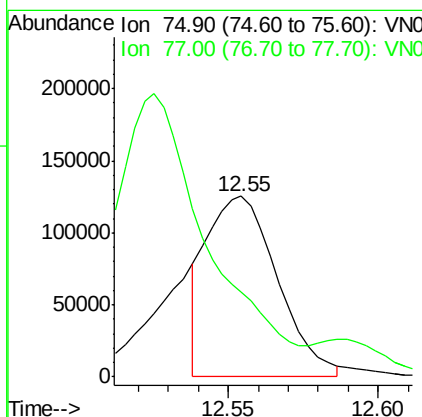
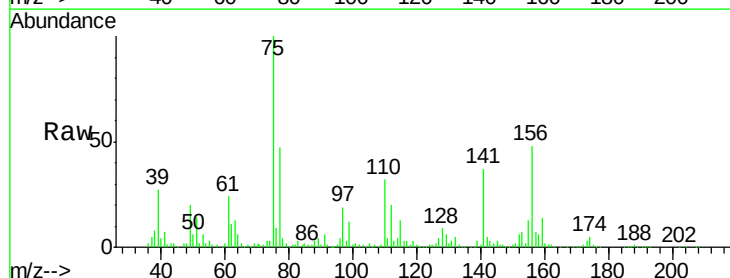
RT: 12.55 min Scan# 3353

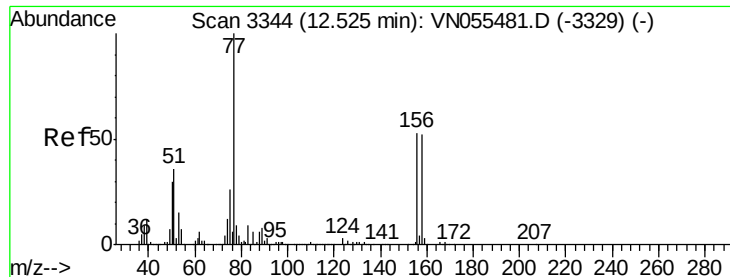
Delta R.T. 0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	75	Resp:	204285
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 49.945 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

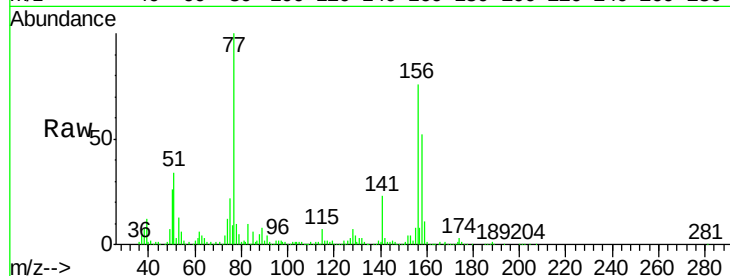
ClientSampleId :

VN0513MBSD01

Tot Ion:	156	Resp:	508358
Ion Ratio	Lower	Upper	
156	100		
77	84.3	115.4	346.2#
158	35.8	48.7	146.1#

Manual Integrations
APPROVED

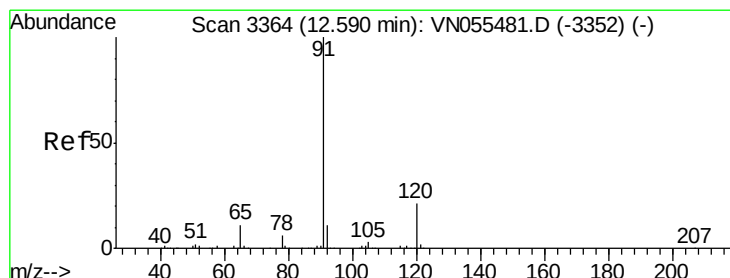
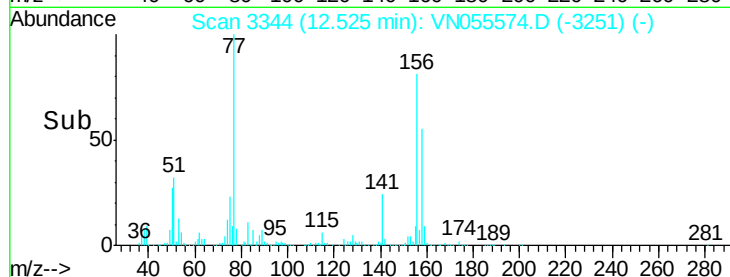
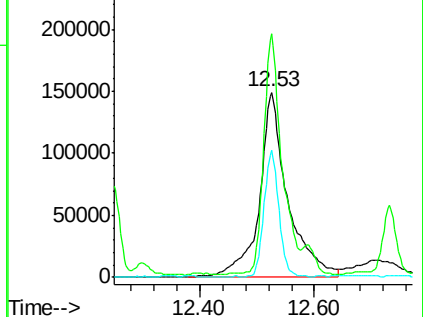
MMDadoda
5/14/2019 9:42:36 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 17.884 ug/l

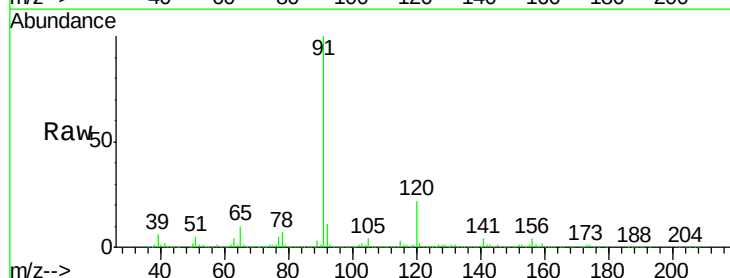
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN055574.D

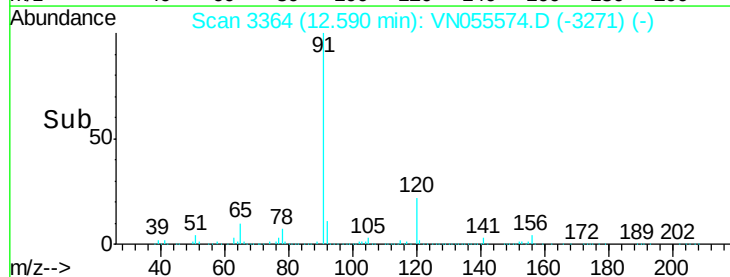
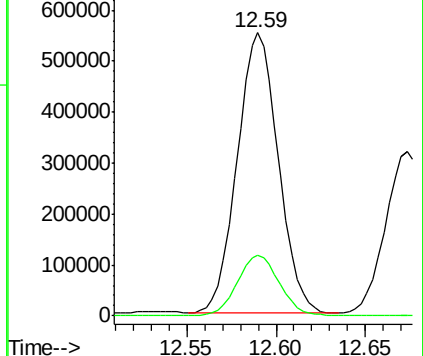
Acq: 13 May 2019 12:53

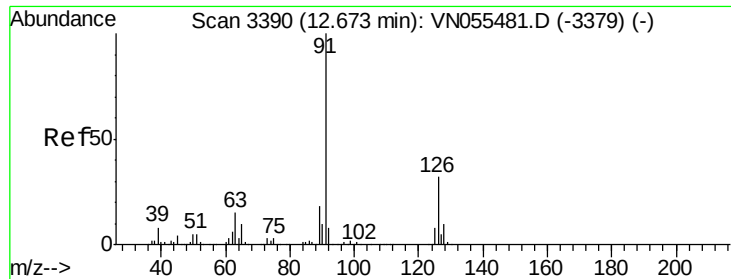
Tgt Ion:	91	Resp:	885902
Ion Ratio	Lower	Upper	
91	100		
120	22.1	10.8	32.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





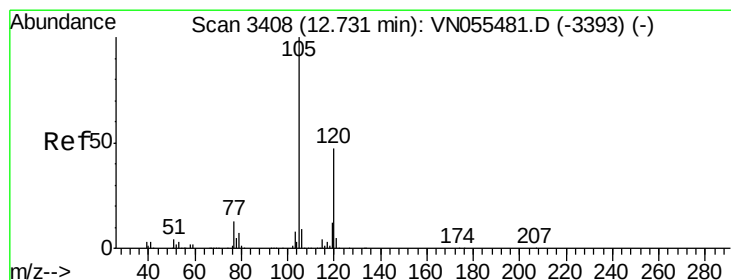
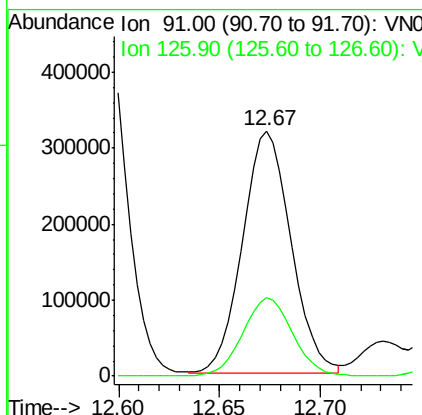
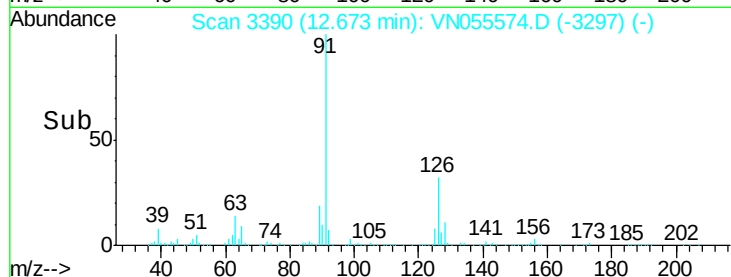
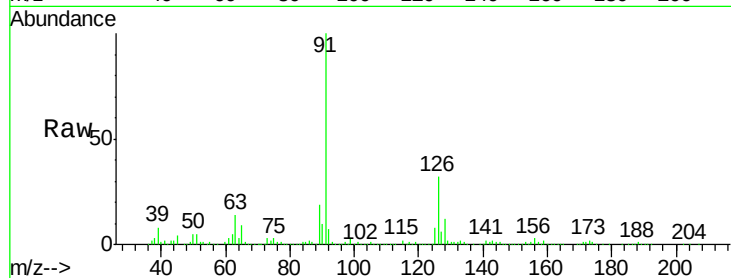
#79
 2-Chlorotoluene
 Concen: 17.354 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.0	47.9

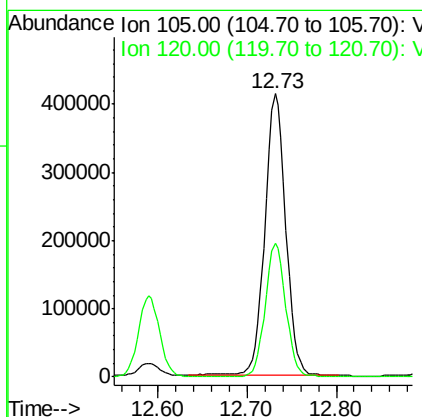
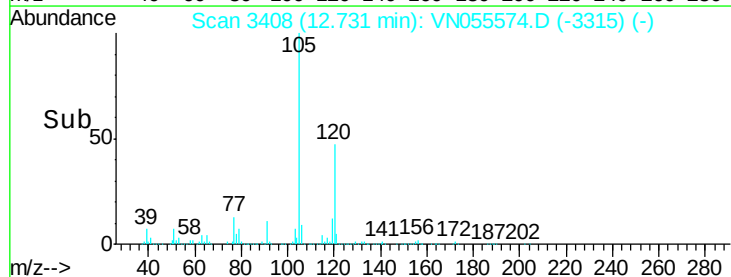
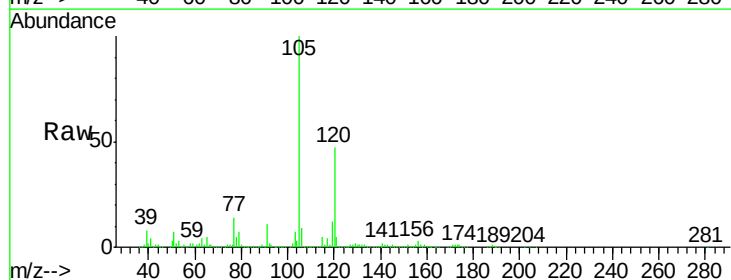
Manual Integrations
 APPROVED

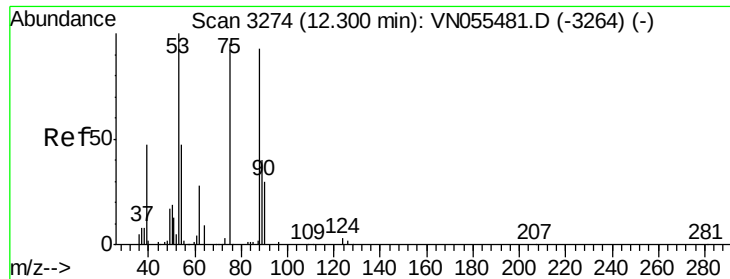
MMDadoda
 5/14/2019 9:42:36 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 18.440 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.4	70.0





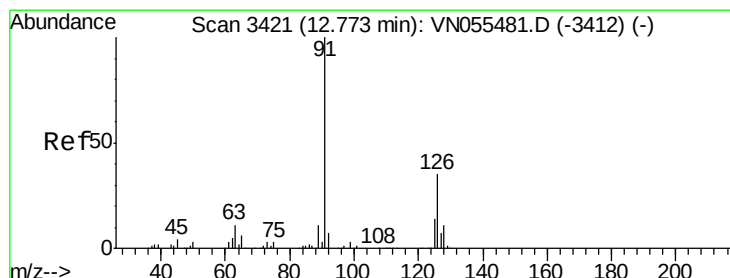
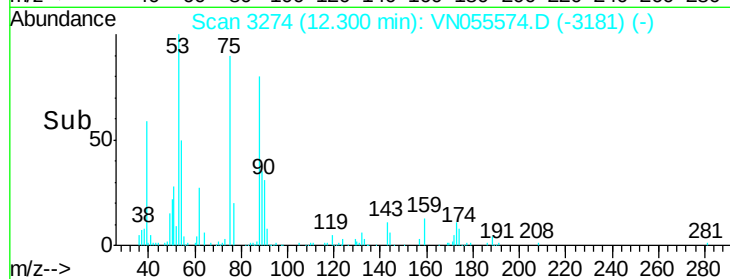
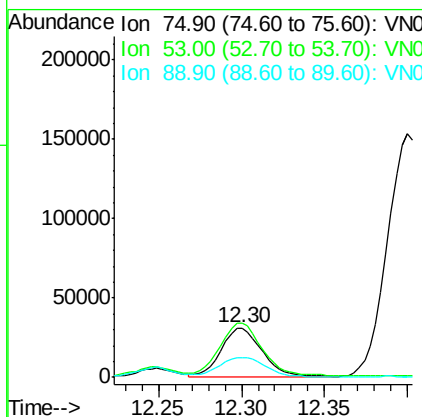
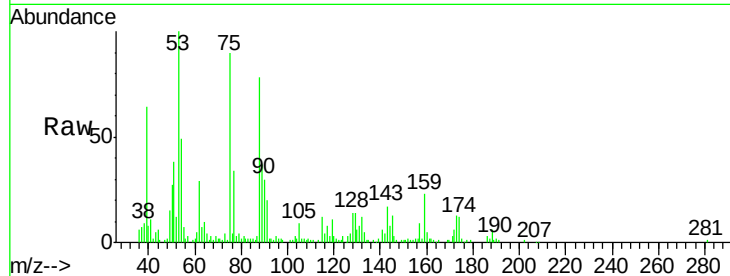
#81
trans-1,4-Dichloro-2-butene
Concen: 15.200 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	114.6	86.5	129.7
89	44.3	35.7	53.5

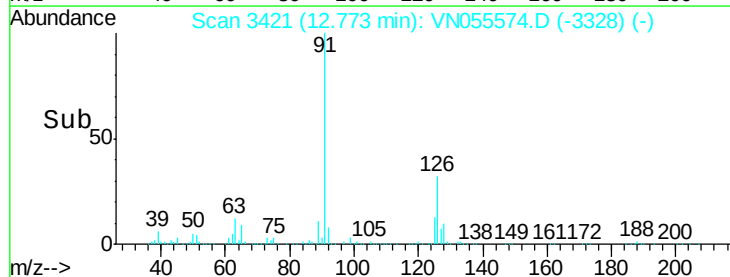
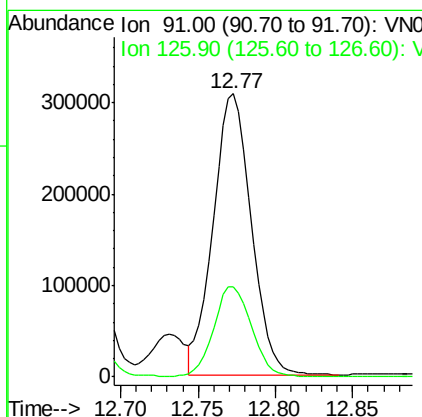
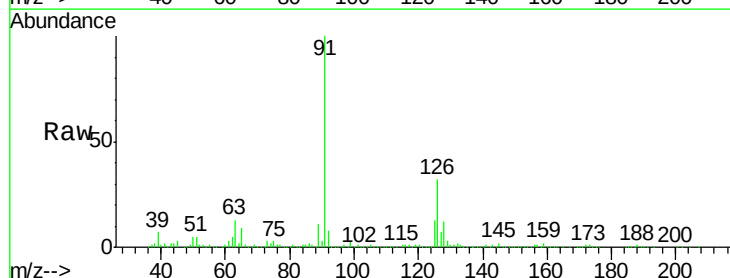
Manual Integrations
APPROVED

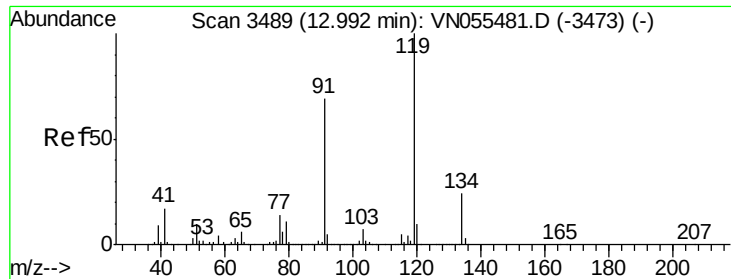
MMDadoda
5/14/2019 9:42:36 AM



#82
4-Chlorotoluene
Concen: 18.010 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	15.7	47.0





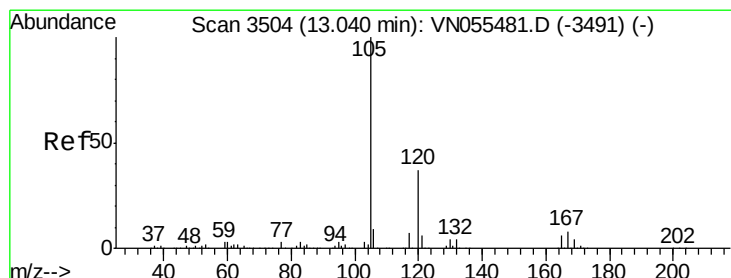
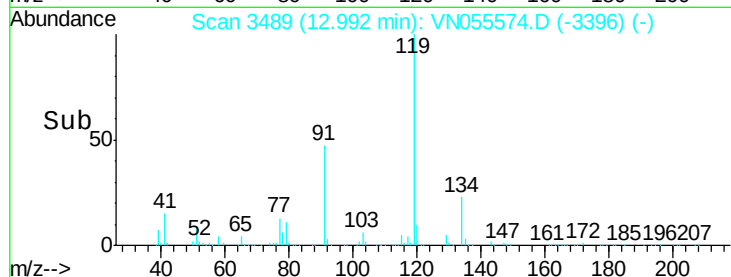
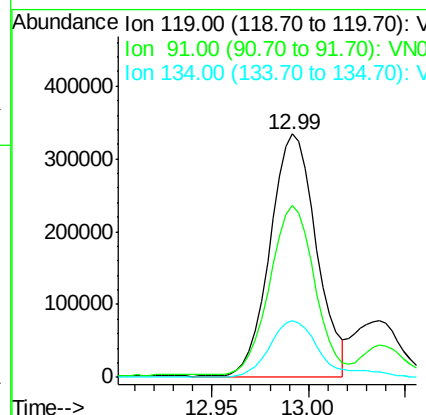
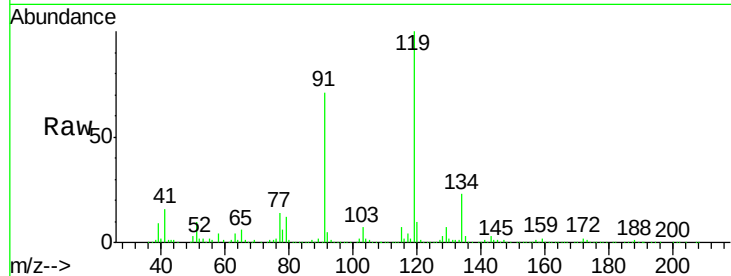
#83
 tert-Butylbenzene
 Concen: 17.430 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.0	33.8	101.3
134	26.0	12.5	37.5

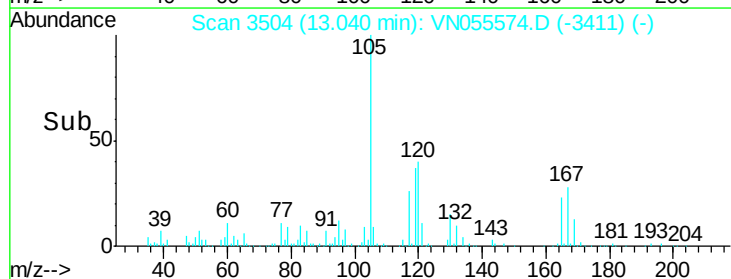
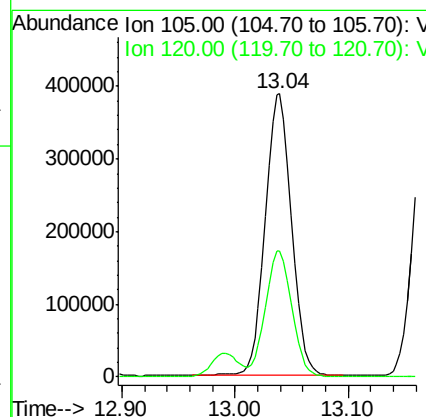
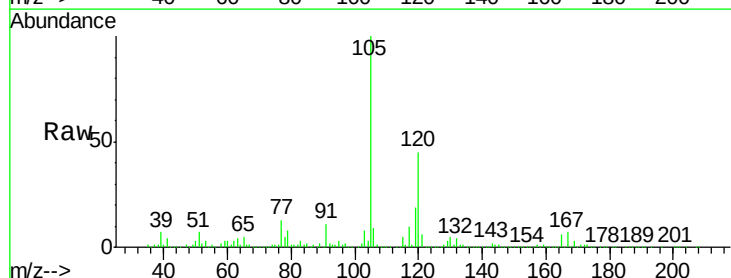
Manual Integrations
 APPROVED

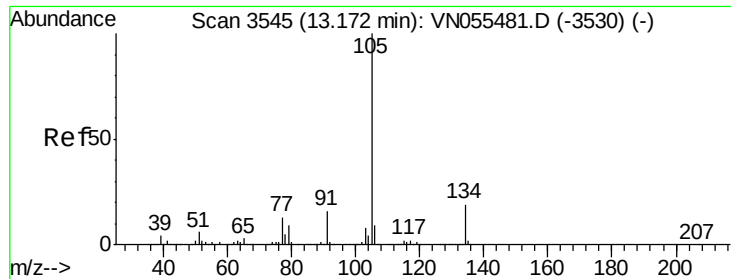
MMDadoda
 5/14/2019 9:42:36 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 18.545 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.1	66.5





#85

sec-Butylbenzene

Concen: 17.534 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

ClientSampleId :

VN0513MBSD01

Tot Ion:105 Resp: 737787

Ion Ratio Lower Upper

105 100

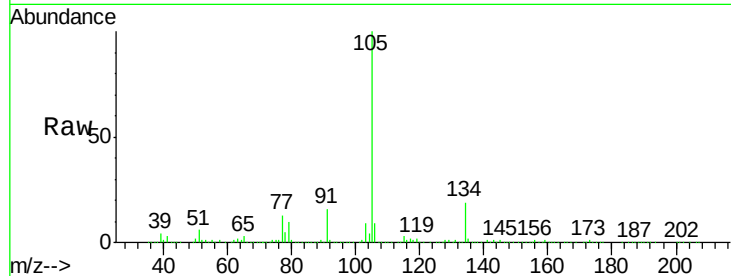
134 19.3 9.3 28.0

Manual Integrations

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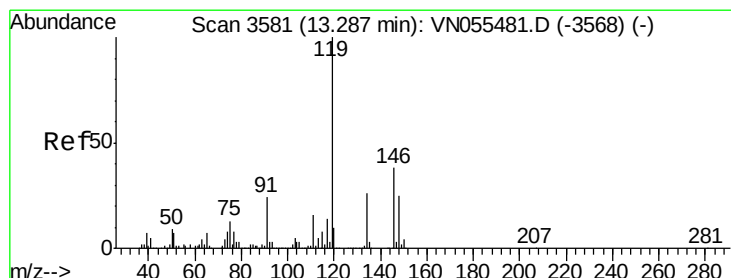
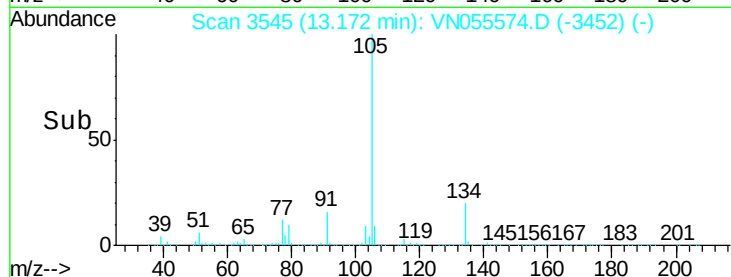
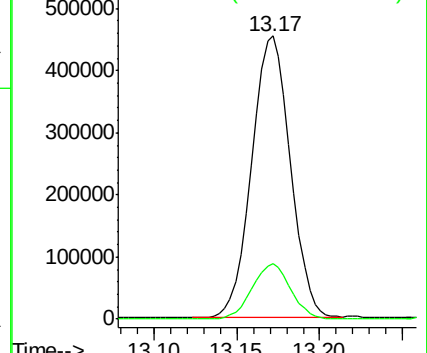
MMDadoda

5/14/2019 9:42:36 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 18.477 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

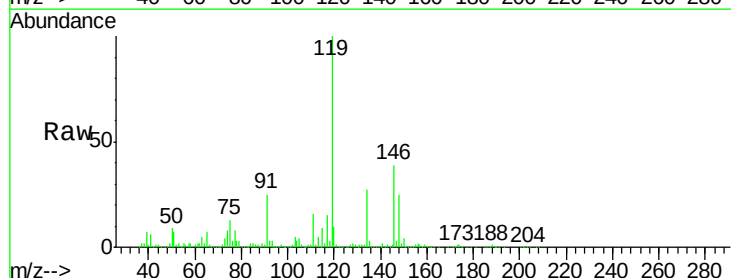
Tgt Ion:119 Resp: 632746

Ion Ratio Lower Upper

119 100

134 26.3 12.8 38.4

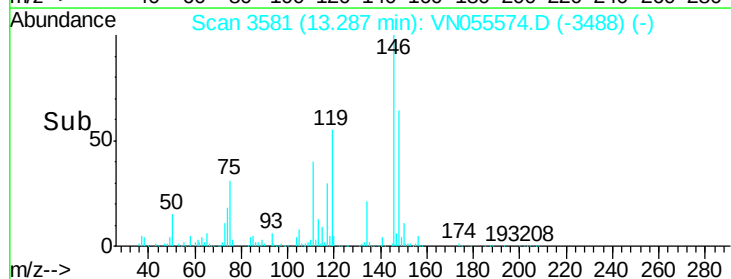
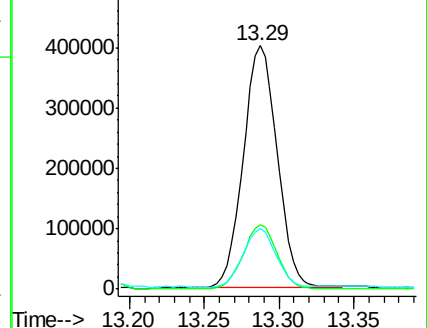
91 23.3 12.0 36.0

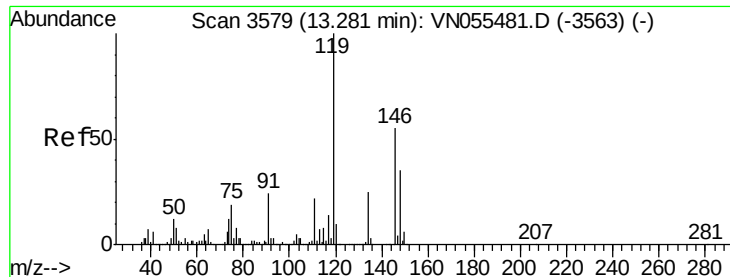


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





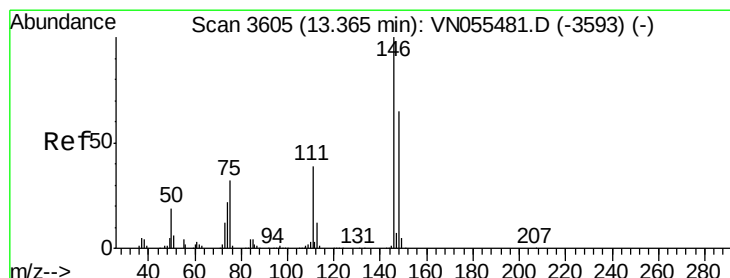
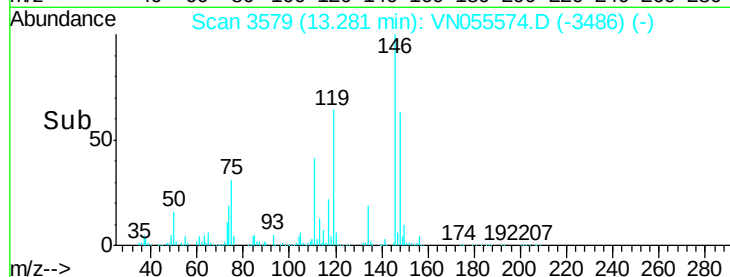
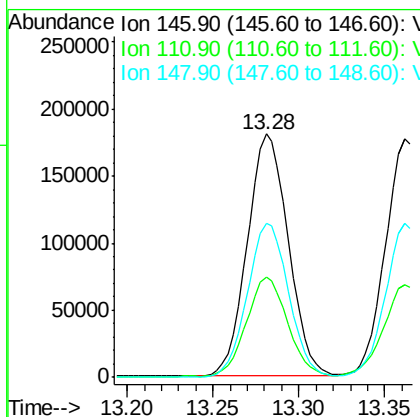
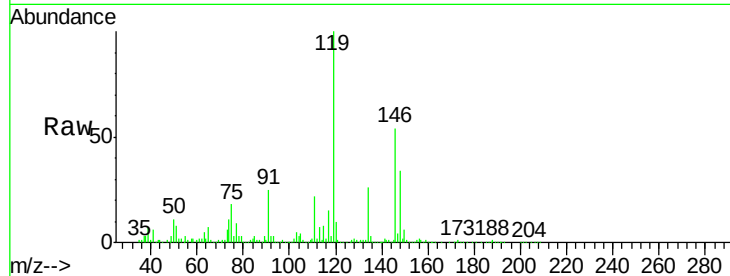
#87
 1,3-Dichlorobenzene
 Concen: 18.954 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	298114		
111	41.0	20.4	61.3	
148	64.4	32.1	96.5	

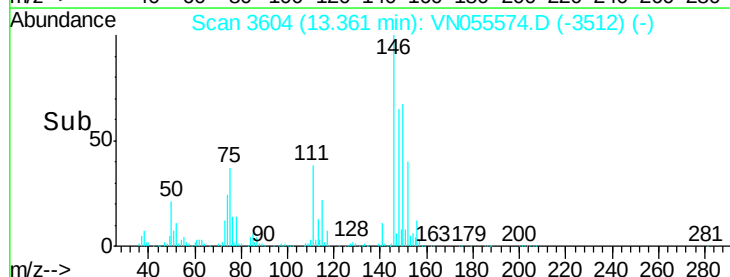
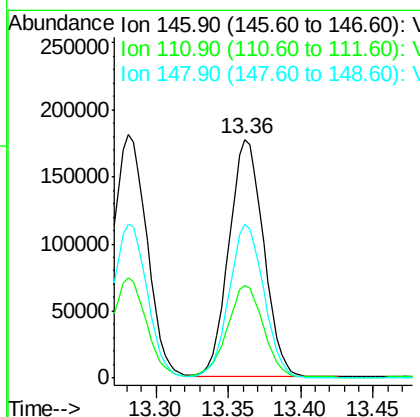
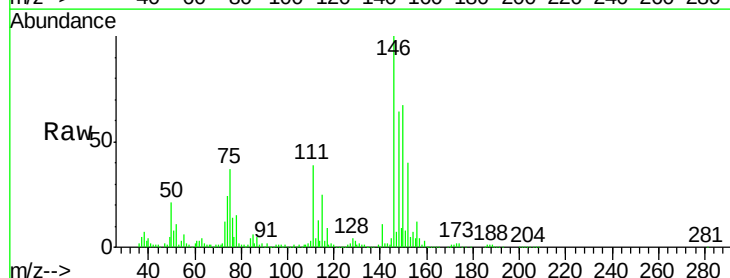
Manual Integrations
 APPROVED

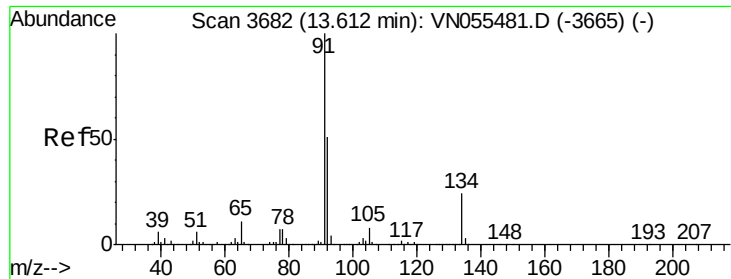
MMDadoda
 5/14/2019 9:42:36 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.918 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	293633		
111	39.7	19.6	58.8	
148	65.0	32.5	97.4	





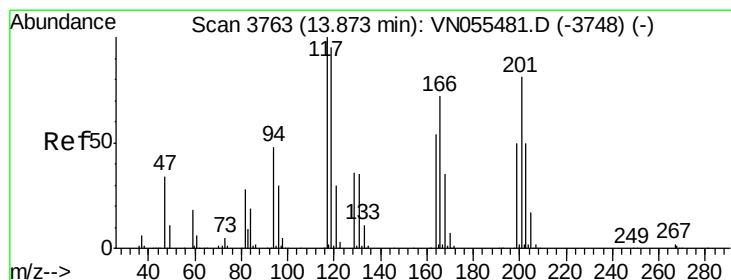
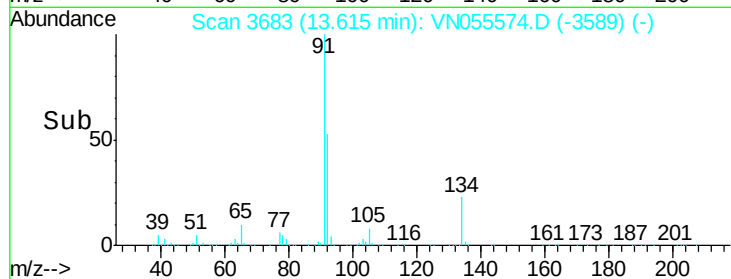
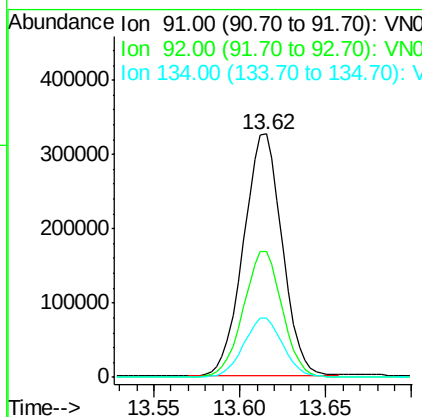
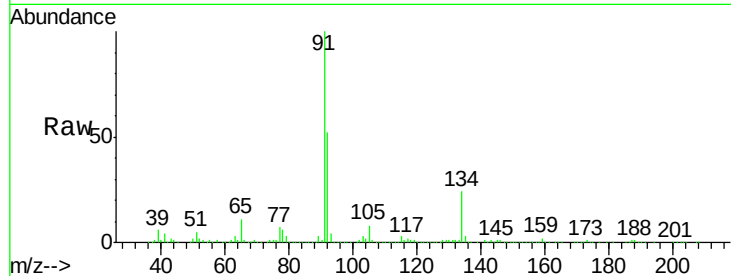
#89
n-Butylbenzene
Concen: 19.049 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Instrument :
MSVOA_N
ClientSampleId :
VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.9	77.7
134	24.8	11.8	35.4

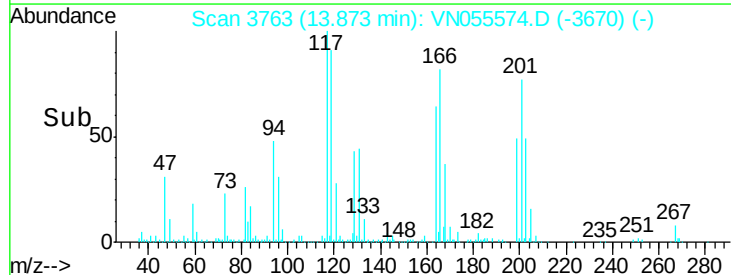
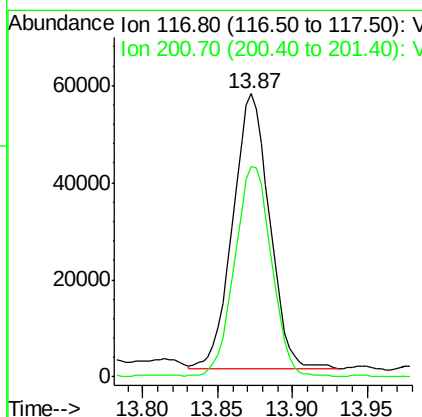
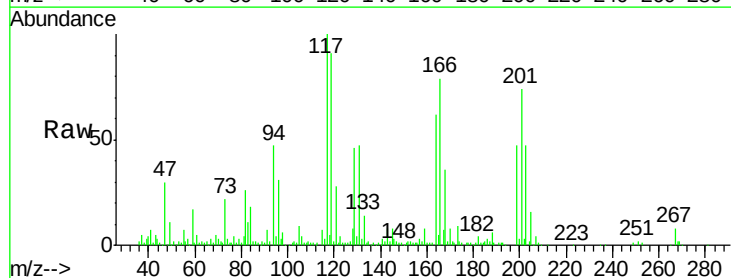
Manual Integrations
APPROVED

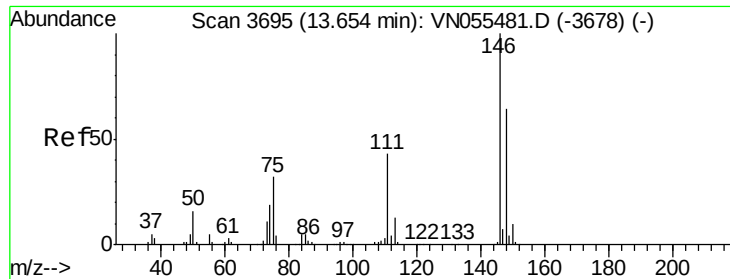
MMDadoda
5/14/2019 9:42:36 AM



#90
Hexachloroethane
Concen: 17.266 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN055574.D
Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.6	40.1	120.2





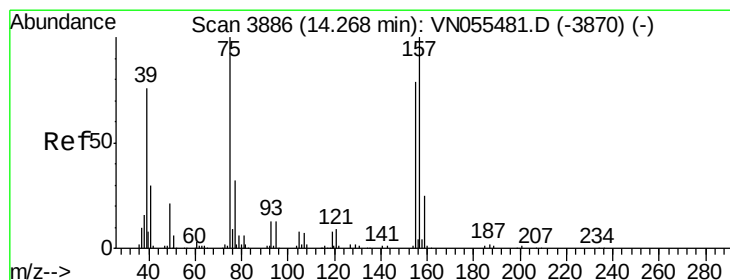
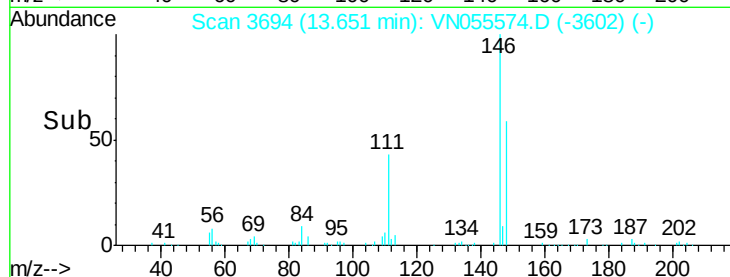
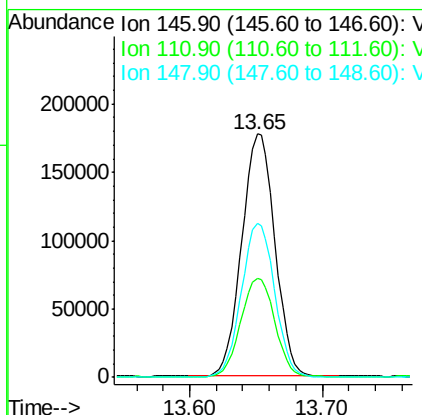
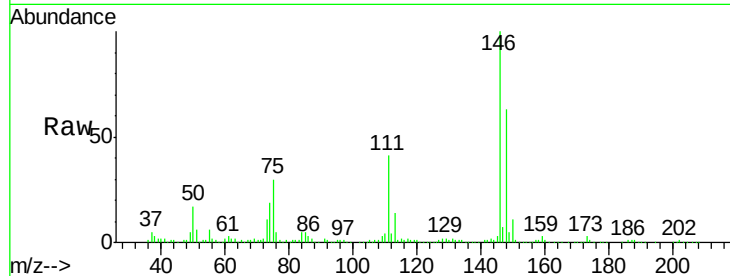
#91
 1,2-Dichlorobenzene
 Concen: 19.589 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.3	63.7
148	63.7	31.9	95.9

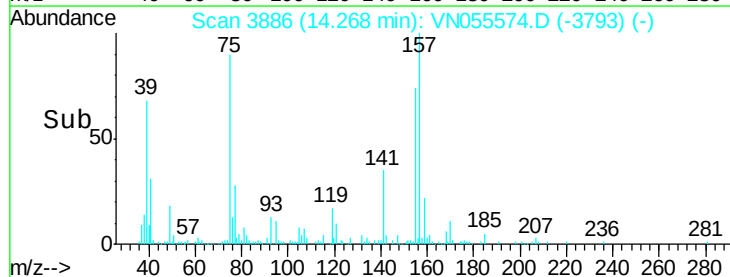
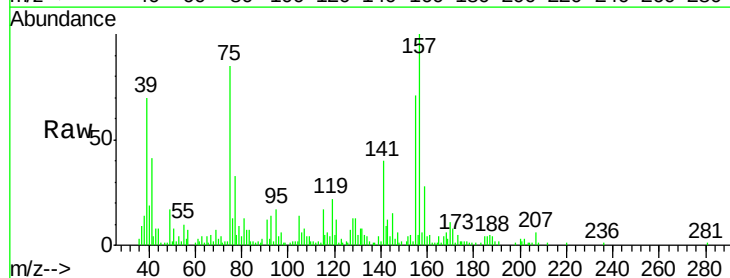
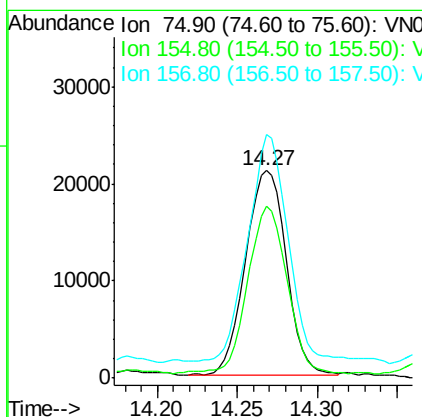
Manual Integrations
 APPROVED

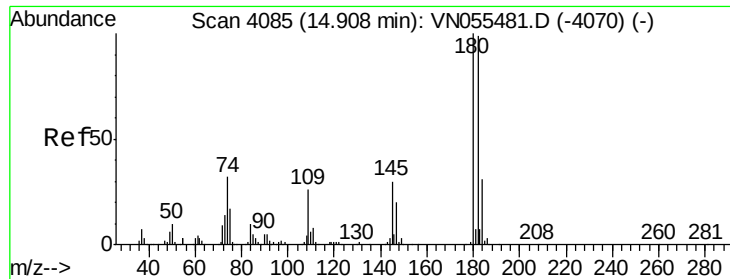
MMDadoda
 5/14/2019 9:42:36 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.293 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	78.7	39.3	117.8
157	107.9	50.6	151.8





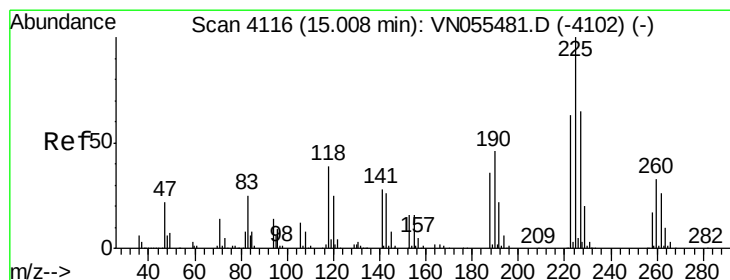
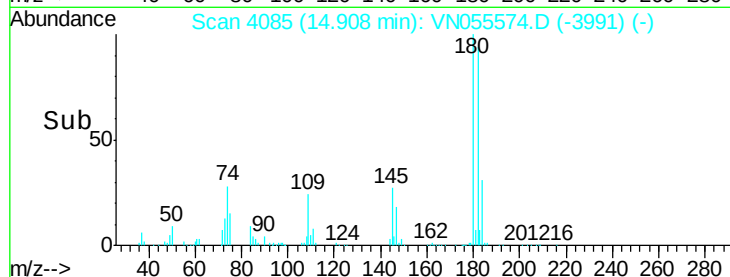
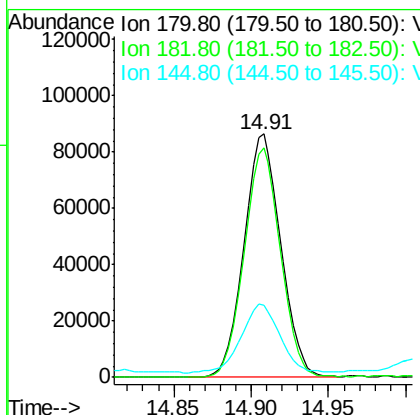
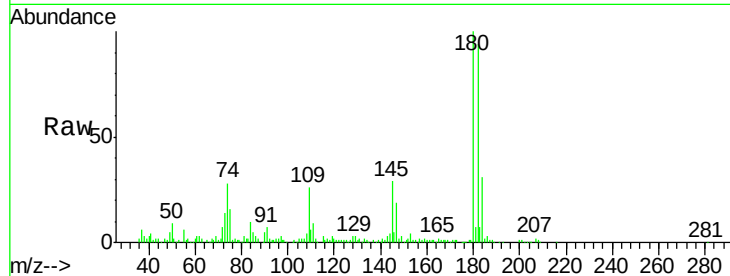
#93
 1,2,4-Trichlorobenzene
 Concen: 22.795 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0513MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	143259		
182	93.0	48.7	146.1	
145	29.4	15.3	45.9	

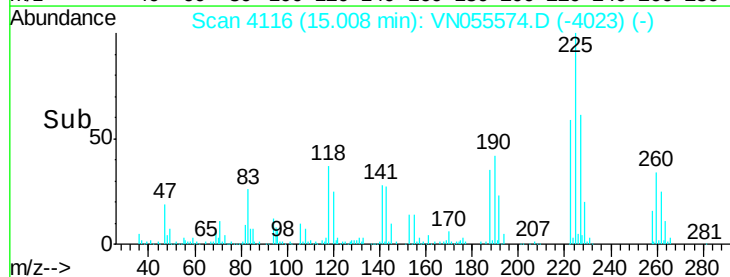
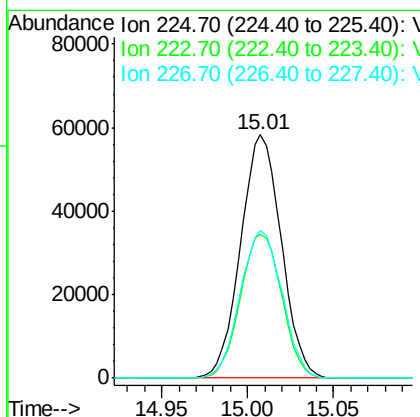
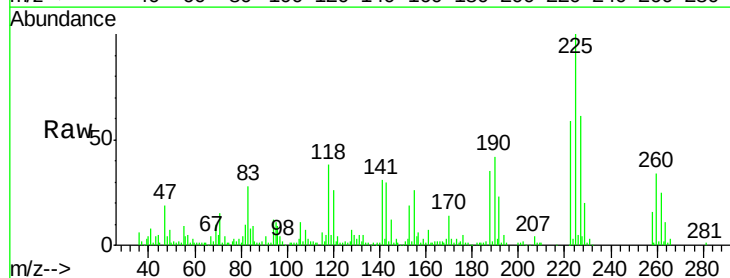
Manual Integrations
 APPROVED

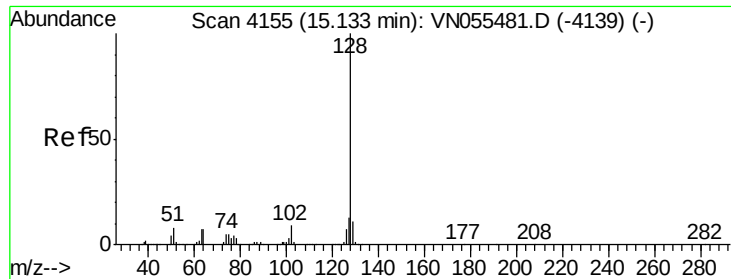
MMDadoda
 5/14/2019 9:42:36 AM



#94
 Hexachlorobutadiene
 Concen: 19.155 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055574.D
 Acq: 13 May 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	95787		
223	59.9	31.4	94.3	
227	62.2	32.0	96.0	





#95

Naphthalene

Concen: 21.983 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Instrument :

MSVOA_N

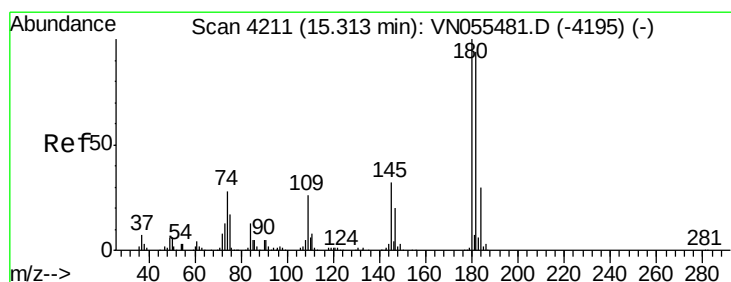
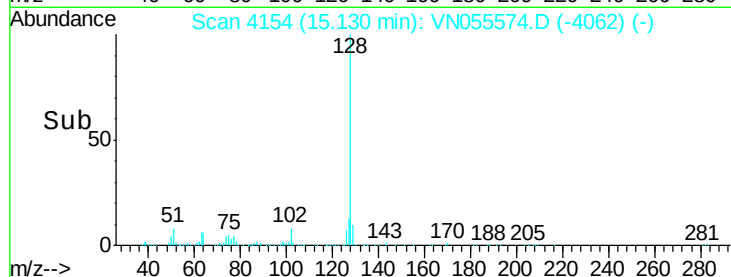
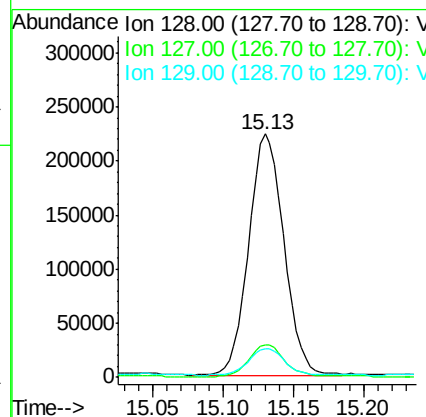
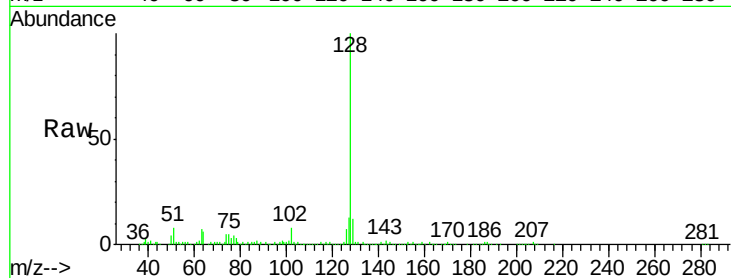
ClientSampleId :

VN0513MBSD01

Tot Ion:	128	Resp:	389652
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.0	15.0
129	11.3	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
5/14/2019 9:42:36 AM



#96

1,2,3-Trichlorobenzene

Concen: 23.081 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055574.D

Acq: 13 May 2019 12:53

Tgt Ion:	180	Resp:	160902
Ion Ratio	Lower	Upper	
180	100		
182	94.8	47.1	141.3
145	35.2	15.8	47.4

