

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021220\
 Data File : VN060076.D
 Acq On : 12 Feb 2020 16:22
 Operator : JC/MD
 Sample : VN0212MBS01
 Misc : 5.00µg/10µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Manual Integrations
 APPROVED

MMDadoda
 2/13/2020 10:37:35 AM

Quant Time: Feb 13 01:08:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	306636	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	287313	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	135534	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	118553	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
35) Dibromofluoromethane	7.56	113	94558	50.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.34%	
50) Toluene-d8	10.08	98	362275	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
62) 4-Bromofluorobenzene	12.40	95	129116	47.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.68%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	37436	19.158	ug/l	97
3) Chloromethane	2.04	50	43745	18.812	ug/l	100
4) Vinyl Chloride	2.17	62	48163	18.171	ug/l	100
5) Bromomethane	2.55	94	31163	19.174	ug/l	97
6) Chloroethane	2.69	64	24902	18.575	ug/l	97
7) Trichlorofluoromethane	3.00	101	62578	18.312	ug/l	100
8) Diethyl Ether	3.38	74	23302	20.484	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	36057	19.004	ug/l	99
10) Methyl Iodide	3.93	142	43797	18.811	ug/l	99
11) Tert butyl alcohol	4.73	59	32944	92.546	ug/l	99
12) 1,1-Dichloroethene	3.72	96	35814	19.377	ug/l	94
13) Acrolein	3.58	56	29203	82.996	ug/l	95
14) Allyl chloride	4.30	41	48871	17.965	ug/l	100
15) Acrylonitrile	4.94	53	83673	96.249	ug/l	99
16) Acetone	3.78	43	84532	81.467	ug/l	100
17) Carbon Disulfide	4.03	76	104467	18.752	ug/l	99
18) Methyl Acetate	4.29	43	37762	19.373	ug/l	100
19) Methyl tert-butyl Ether	5.00	73	120489	19.385	ug/l	99
20) Methylene Chloride	4.52	84	40402	19.517	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	37883	18.802	ug/l	98
22) Diisopropyl ether	5.91	45	114752	19.247	ug/l	95
23) Vinyl Acetate	5.86	43	482965	96.463	ug/l	99
24) 1,1-Dichloroethane	5.82	63	68558	18.982	ug/l	99
25) 2-Butanone	6.80	43	116852	89.542	ug/l	99
26) 2,2-Dichloropropane	6.79	77	63141	18.406	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	44405	18.832	ug/l	100
28) Bromochloromethane	7.17	49	26366	18.569	ug/l	95
29) Tetrahydrofuran	7.18	42	74333	92.848	ug/l	99
30) Chloroform	7.35	83	72808	19.244	ug/l	99
31) Cyclohexane	7.63	56	62430	18.556	ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	65050	18.815	ug/l	99
36) 1,1-Dichloropropene	7.77	75	53789	18.939	ug/l	98
37) Ethyl Acetate	6.90	43	50192	19.554	ug/l	97
38) Carbon Tetrachloride	7.75	117	56549	18.333	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	65483	18.574	ug/l	99
40) Benzene	8.02	78	159222	18.899	ug/l	98
41) Methacrylonitrile	7.14	41	20268	18.828	ug/l #	100
42) 1,2-Dichloroethane	8.10	62	55605	18.831	ug/l	99
43) Isopropyl Acetate	8.14	43	83474	19.024	ug/l	99
44) Trichloroethene	8.82	130	43491	18.643	ug/l	99
45) 1,2-Dichloropropane	9.10	63	40718	19.521	ug/l	100
46) Dibromomethane	9.19	93	28329	19.219	ug/l	97
47) Bromodichloromethane	9.38	83	57321	19.128	ug/l	96
48) Methyl methacrylate	9.18	41	35794	18.182	ug/l	97
49) 1,4-Dioxane	9.18	88	13335	396.439	ug/l	98
51) 4-Methyl-2-Pentanone	9.97	43	241144	94.947	ug/l	99
52) Toluene	10.14	92	101754	18.834	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	65172	19.267	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	68671	19.279	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	41239	19.566	ug/l	99
56) Ethyl methacrylate	10.42	69	57283	19.212	ug/l	99
57) 1,3-Dichloropropane	10.70	76	67231	19.331	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.68	63	138510	99.715	ug/l	100
59) 2-Hexanone	10.74	43	179126	91.302	ug/l	100
60) Dibromochloromethane	10.89	129	46393	19.181	ug/l	99
61) 1,2-Dibromoethane	10.99	107	43809	19.827	ug/l	97
64) Tetrachloroethene	10.62	164	40362	18.480	ug/l	98
65) Chlorobenzene	11.43	112	109751	18.749	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	42475	19.181	ug/l	99
67) Ethyl Benzene	11.50	91	198752	18.826	ug/l	100
68) m/p-Xylenes	11.62	106	147850	37.314	ug/l	99
69) o-Xylene	11.94	106	71886	18.843	ug/l	98
70) Styrene	11.96	104	114210	18.564	ug/l	100
71) Bromoform	12.12	173	33308	18.701	ug/l #	98
73) Isopropylbenzene	12.25	105	192304	19.001	ug/l	100
74) N-amyl acetate	12.07	43	70500	19.317	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	58090	19.941	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	47382m	18.273	ug/l	
77) Bromobenzene	12.52	156	48972	19.497	ug/l	99
78) n-propylbenzene	12.59	91	217021	18.820	ug/l	99
79) 2-Chlorotoluene	12.67	91	128348	18.937	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	161331	19.172	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	20054	18.936	ug/l	100
82) 4-Chlorotoluene	12.77	91	133241	19.161	ug/l	99
83) tert-Butylbenzene	12.99	119	140319	18.850	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	161888	19.489	ug/l	99
85) sec-Butylbenzene	13.17	105	183669	18.630	ug/l	100
86) p-Isopropyltoluene	13.28	119	169244	18.947	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	85760	19.289	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	84719	19.059	ug/l	98
89) n-Butylbenzene	13.61	91	145851	18.564	ug/l	99
90) Hexachloroethane	13.87	117	31114	18.645	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	84026	19.312	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11875	18.688	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	50273	19.664	ug/l	100
94) Hexachlorobutadiene	15.01	225	27827	18.592	ug/l	99
95) Naphthalene	15.13	128	140156	20.295	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	49830	19.572	ug/l	100

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

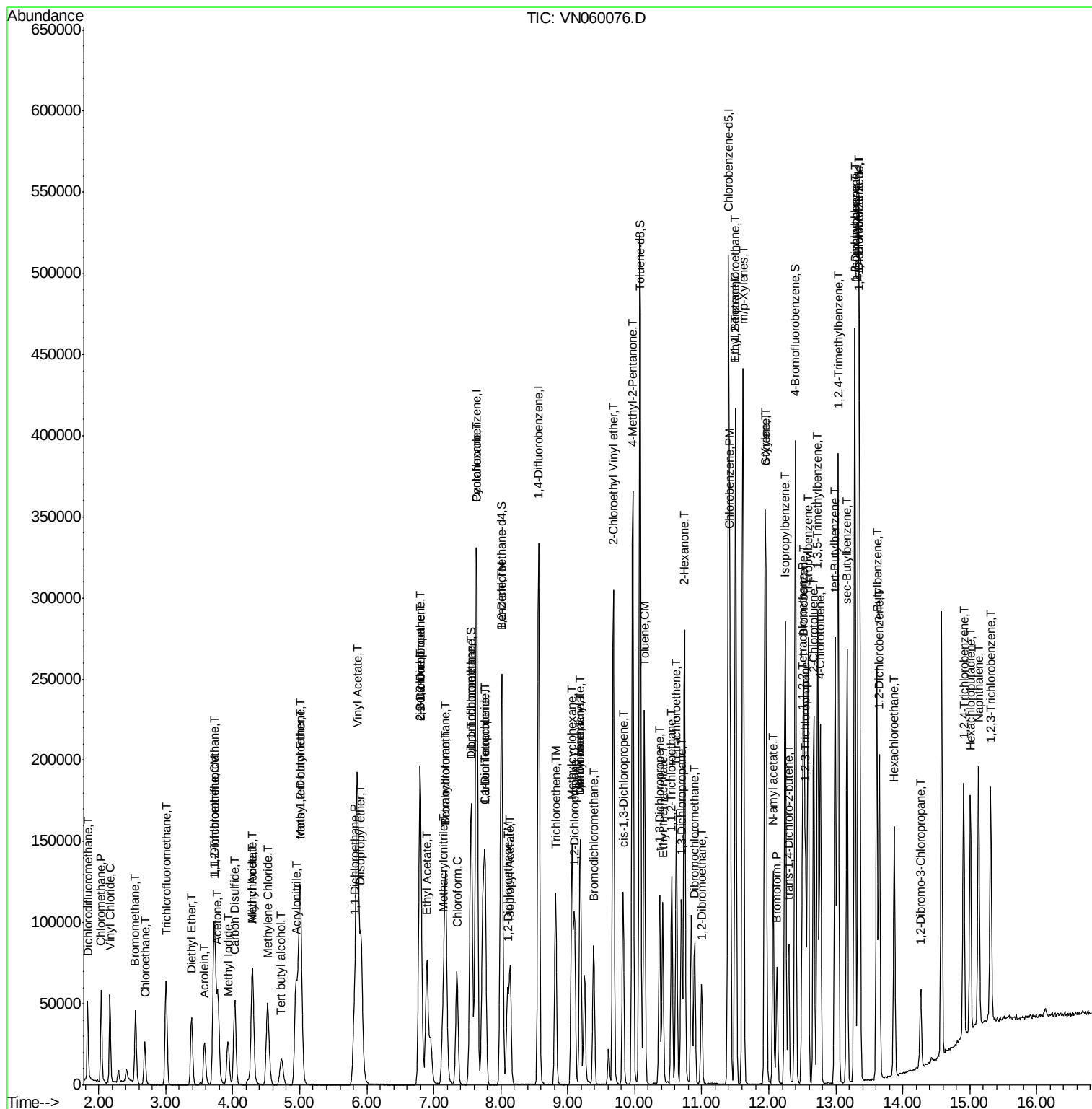
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Data File : VN060076.D
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Operator : JC/MD
Sample : VN0212MBS01
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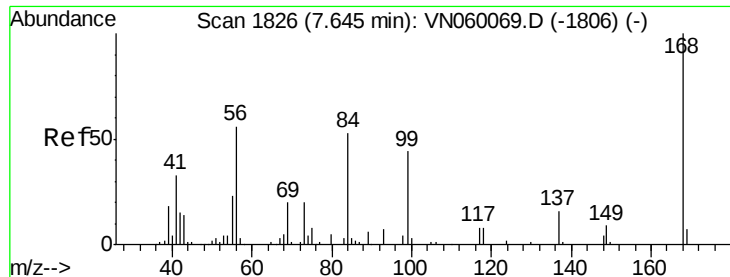
Instrument :
MSVOA_N
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion:168 Resp: 195492

Ion Ratio Lower Upper

168 100

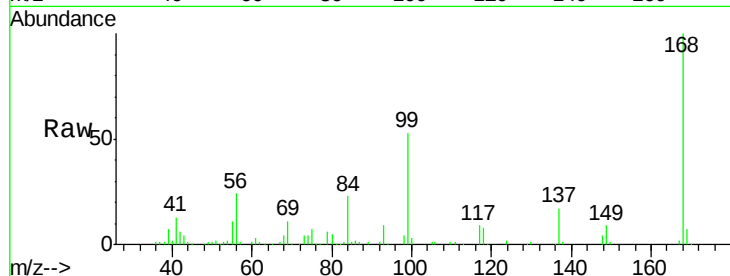
99 52.8 42.7 64.1

Manual Integrations

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2/13/2020 10:37:35 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

80000

60000

40000

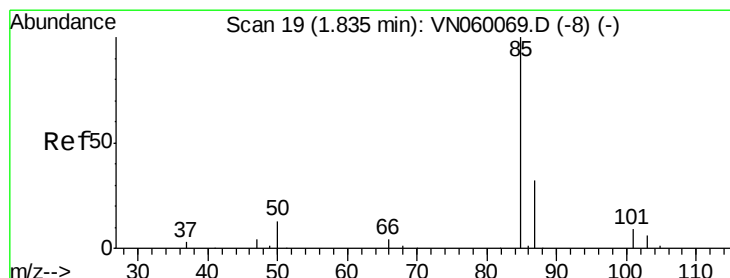
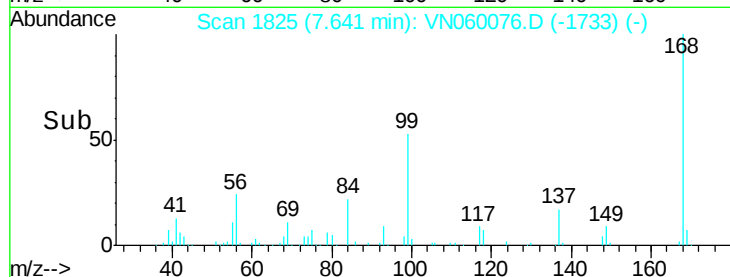
20000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 19.158 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN060076.D

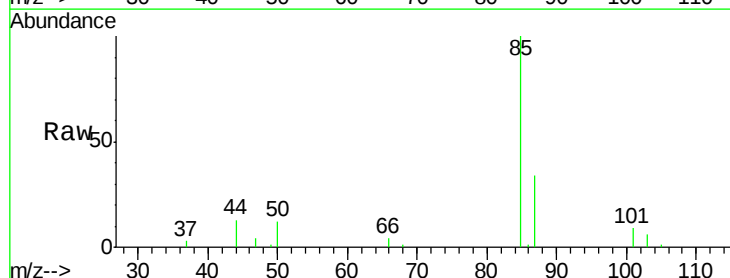
Acq: 12 Feb 2020 16:22

Tgt Ion: 85 Resp: 37436

Ion Ratio Lower Upper

85 100

87 34.0 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.83

30000

25000

20000

15000

10000

5000

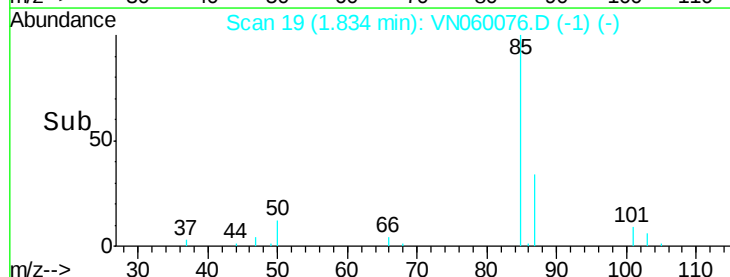
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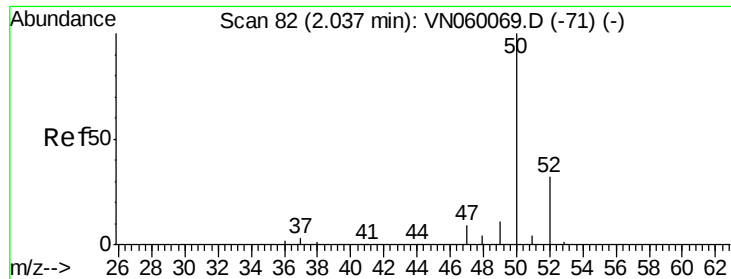
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 18.812 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 50 Resp: 43745

Ion Ratio Lower Upper

50 100

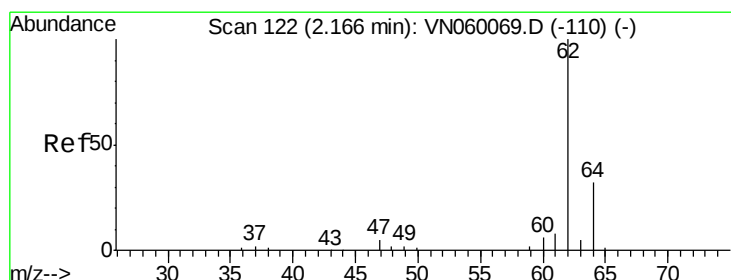
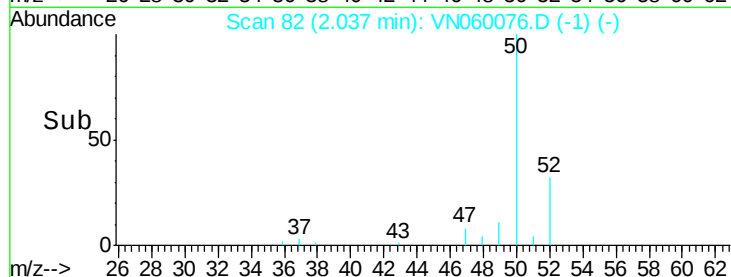
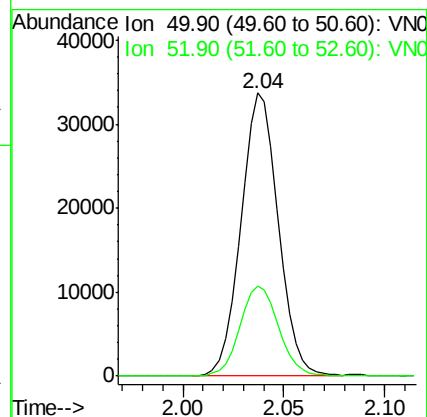
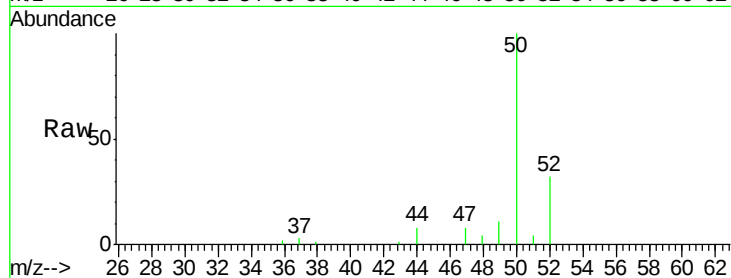
52 32.0 25.6 38.4

Manual Integrations

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2/13/2020 10:37:35 AM



#4

Vinyl Chloride

Concen: 18.171 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN060076.D

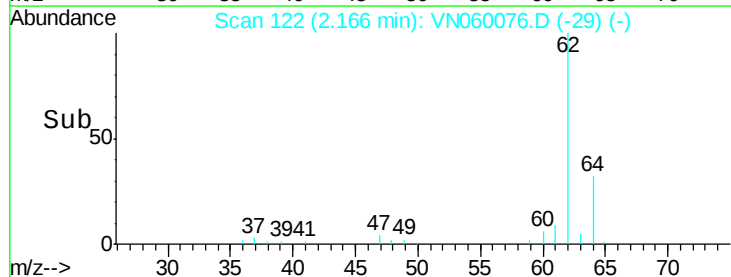
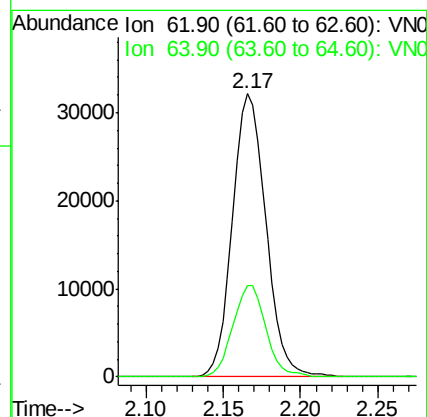
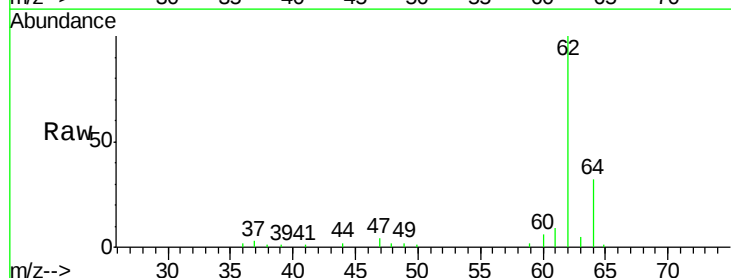
Acq: 12 Feb 2020 16:22

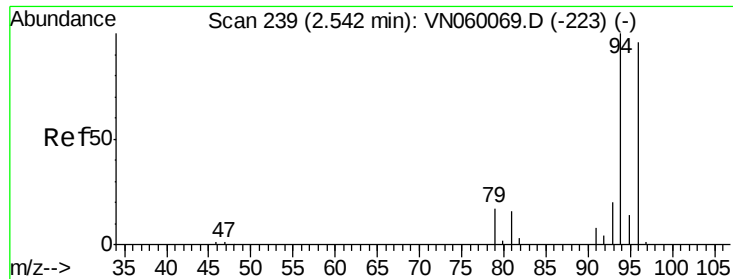
Tgt Ion: 62 Resp: 48163

Ion Ratio Lower Upper

62 100

64 32.2 25.9 38.9





#5

Bromomethane

Concen: 19.174 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 31163

Ion Ratio Lower Upper

94 100

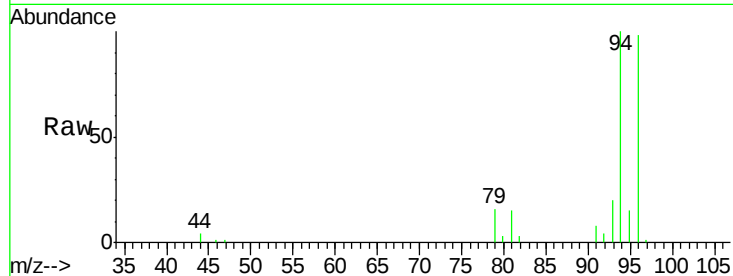
96 98.5 76.7 115.1

Manual Integrations

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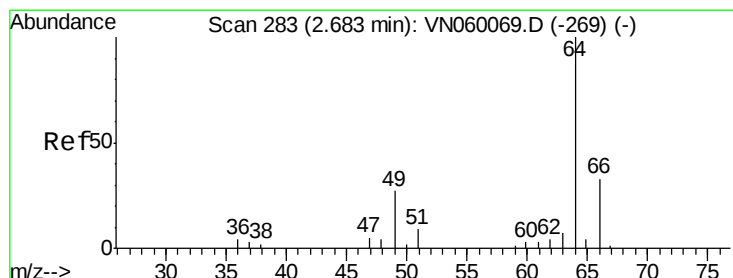
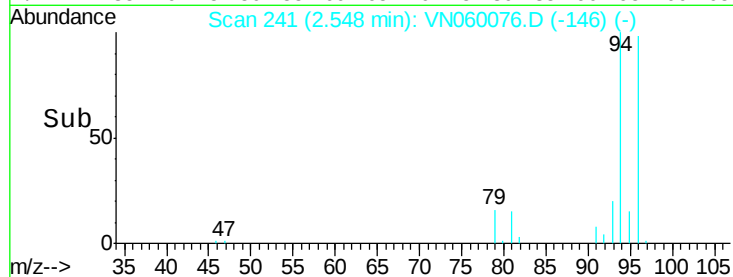
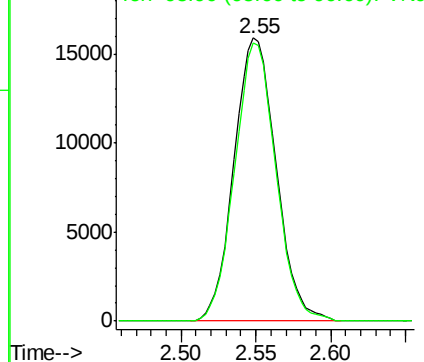
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2/13/2020 10:37:35 AM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.575 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN060076.D

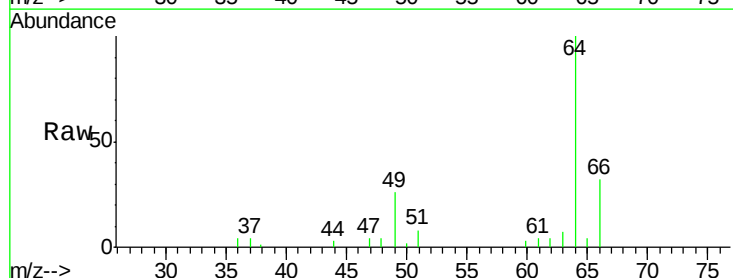
Acq: 12 Feb 2020 16:22

Tgt Ion: 64 Resp: 24902

Ion Ratio Lower Upper

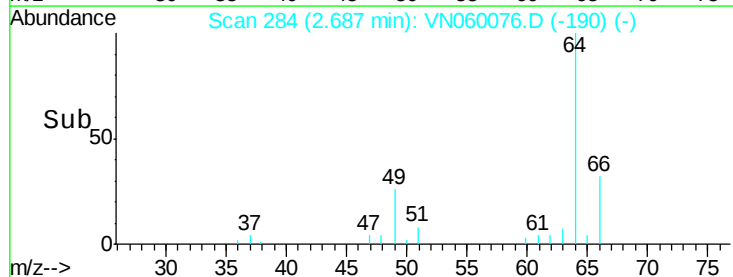
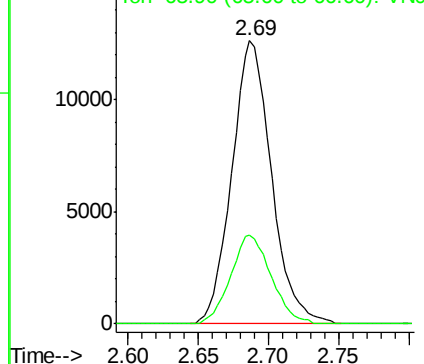
64 100

66 31.6 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

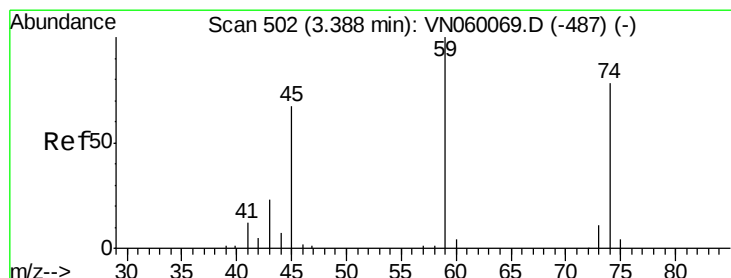
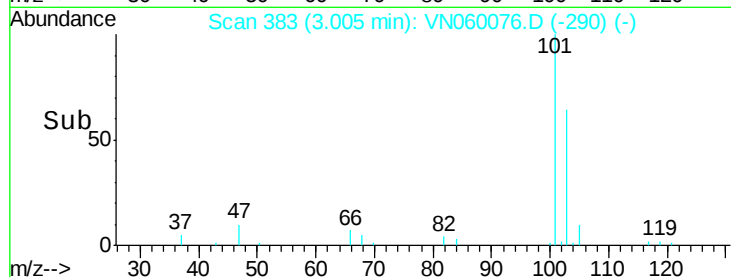
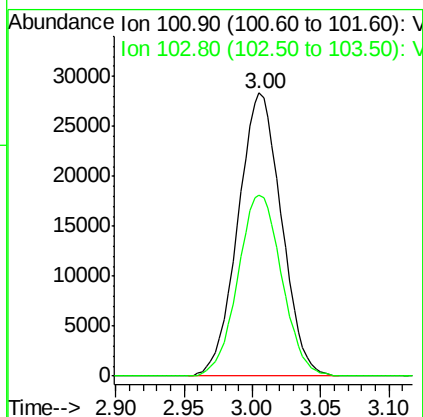
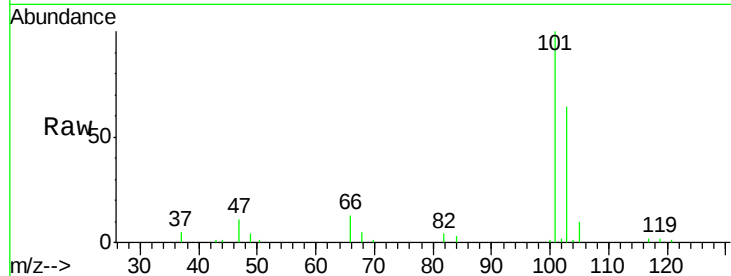
Trichlorofluoromethane
Concen: 18.312 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		62578		
103	63.9	51.0	76.6		

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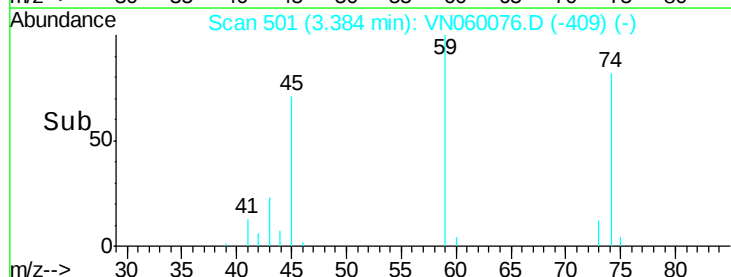
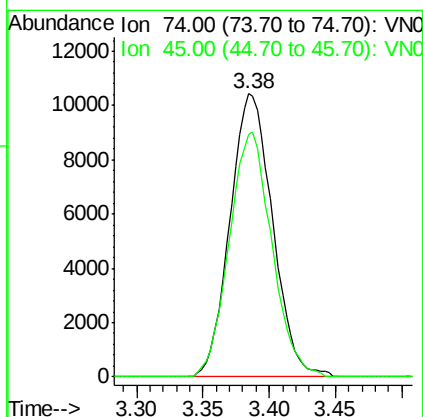
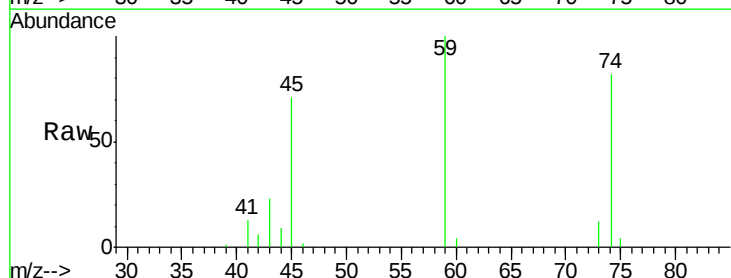
MMDadoda
2/13/2020 10:37:35 AM



#8

Diethyl Ether
Concen: 20.484 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.00 min
Lab File: VN060076.D
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Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		23302		
45	86.5	44.7	134.1		





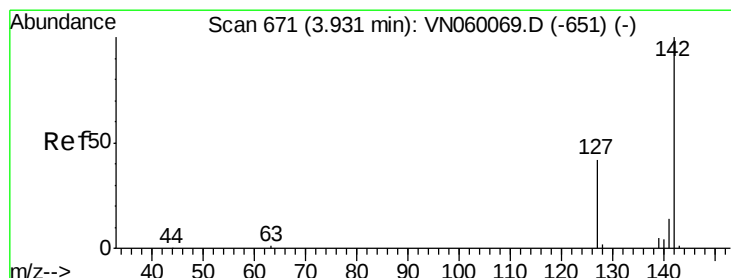
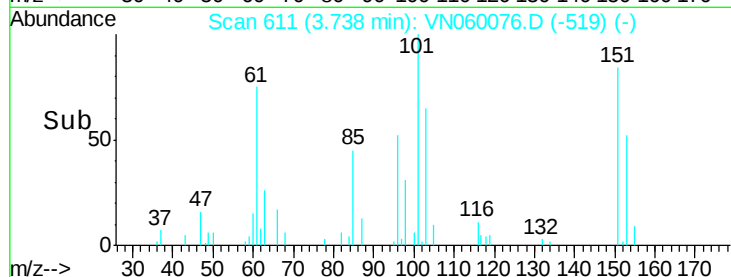
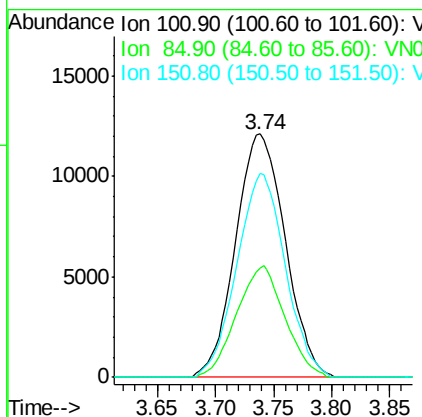
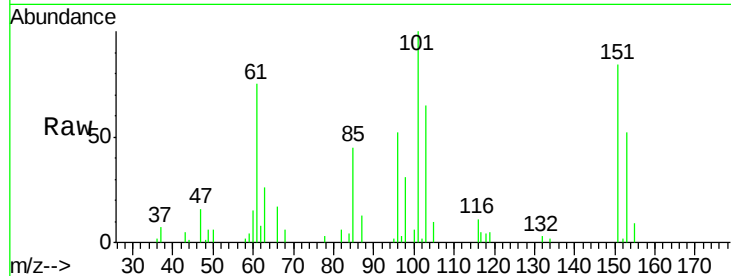
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.004 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	44.6	35.1	52.7
151	81.6	65.8	98.6

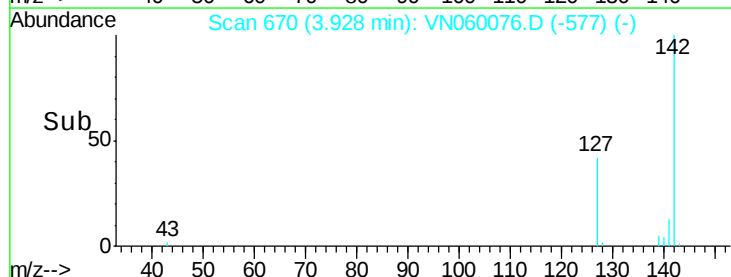
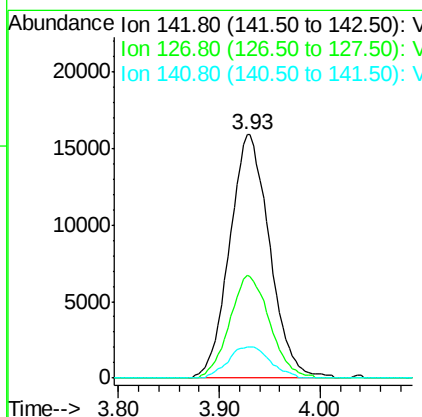
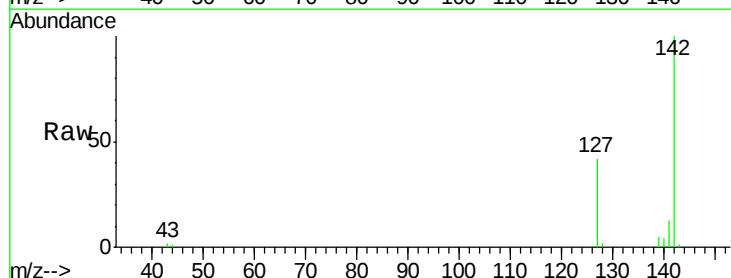
Manual Integrations
 APPROVED

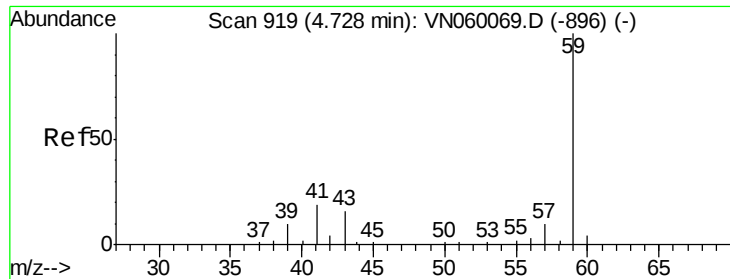
MMDadoda
 2/13/2020 10:37:35 AM



#10
 Methyl Iodide
 Concen: 18.811 ug/l
 RT: 3.93 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.2	33.6	50.4
141	13.5	11.4	17.2





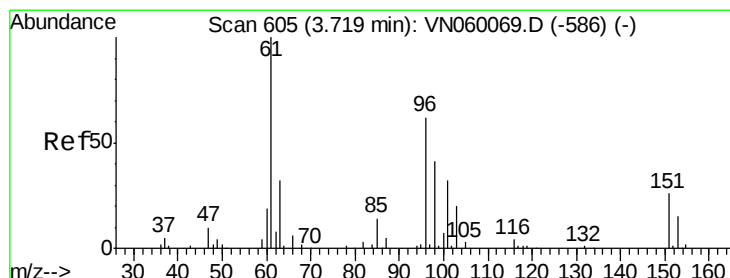
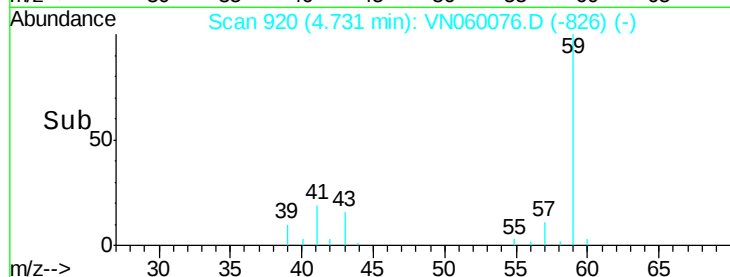
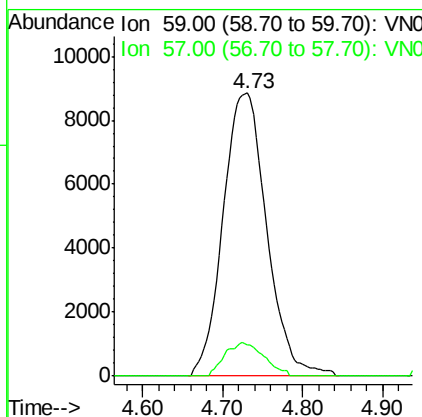
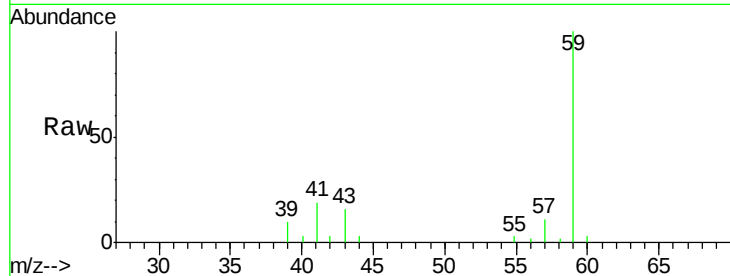
#11
Tert butyl alcohol
Concen: 92.546 ug/l
RT: 4.73 min Scan# 920
Delta R.T. 0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

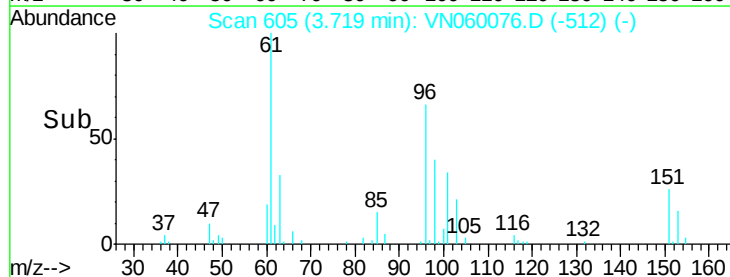
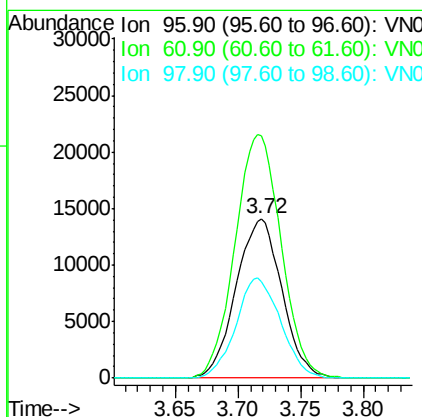
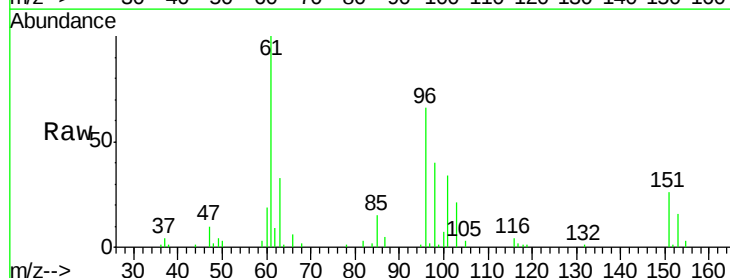
Manual Integrations
APPROVED

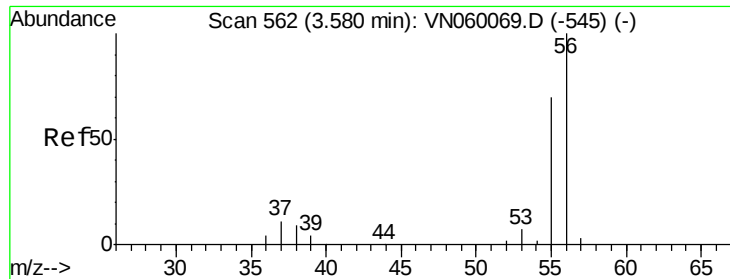
MMDadoda
2/13/2020 10:37:35 AM



#12
1,1-Dichloroethene
Concen: 19.377 ug/l
RT: 3.72 min Scan# 605
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.0	128.3	192.5
98	60.6	52.2	78.4





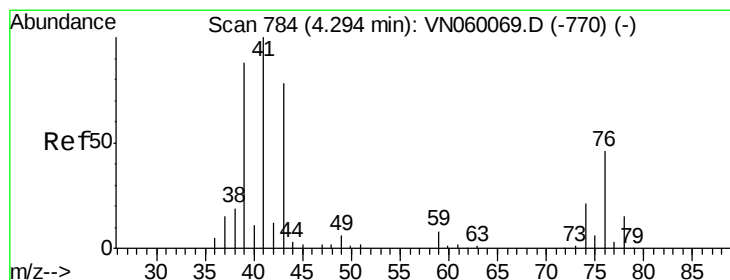
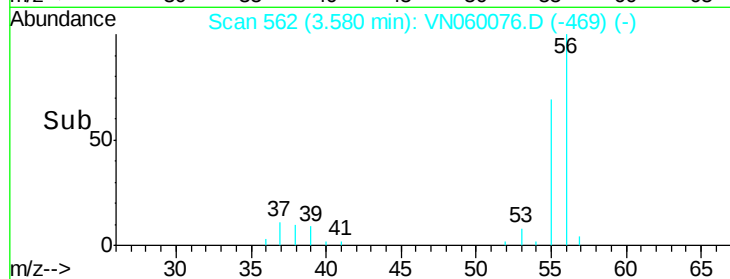
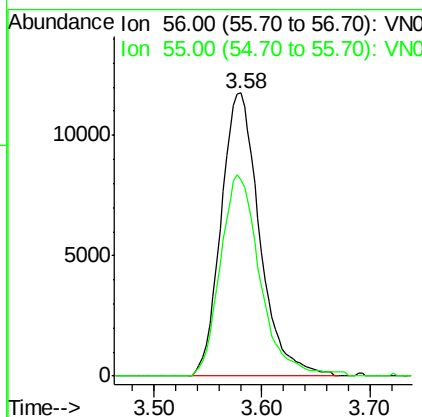
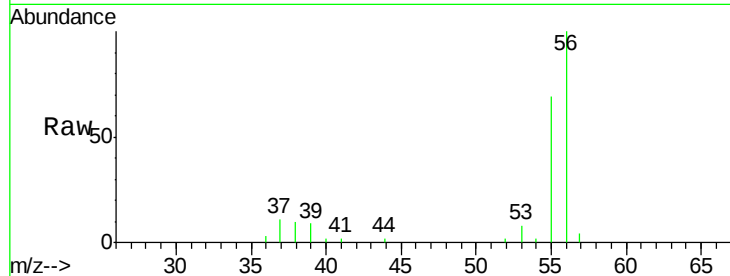
#13
Acrolein
Concen: 82.996 ug/l
RT: 3.58 min Scan# 562
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	56	Resp	29203
Ion Ratio	100	Lower	Upper
56	100		
55	72.8	54.8	82.2

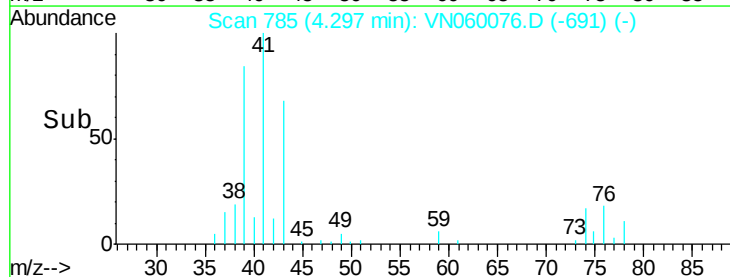
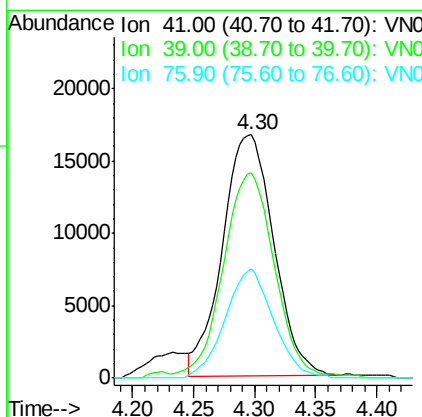
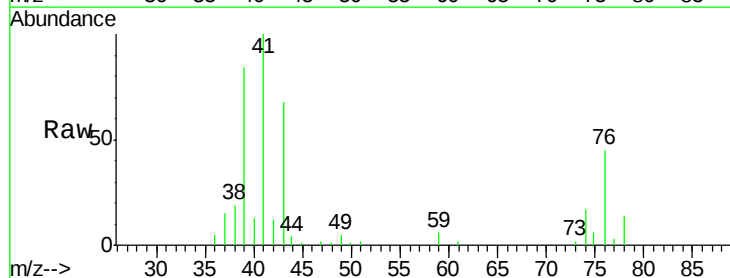
Manual Integrations
APPROVED

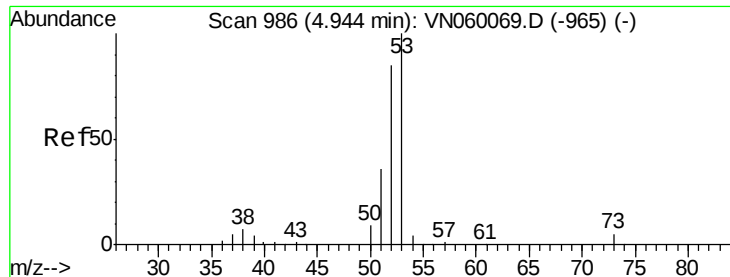
MMDadoda
2/13/2020 10:37:35 AM



#14
Allyl chloride
Concen: 17.965 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	41	Resp	48871
Ion Ratio	100	Lower	Upper
41	100		
39	85.1	67.8	101.8
76	42.4	33.9	50.9





#15

Acrylonitrile

Concen: 96.249 ug/l

RT: 4.94 min Scan# 986

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

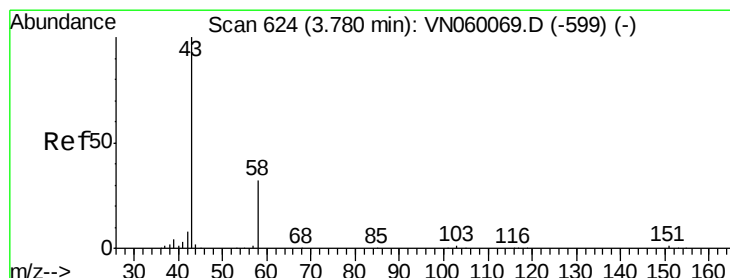
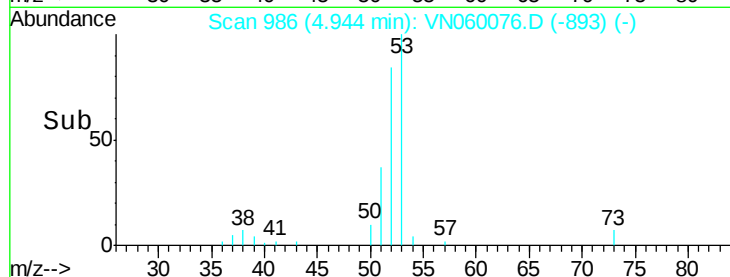
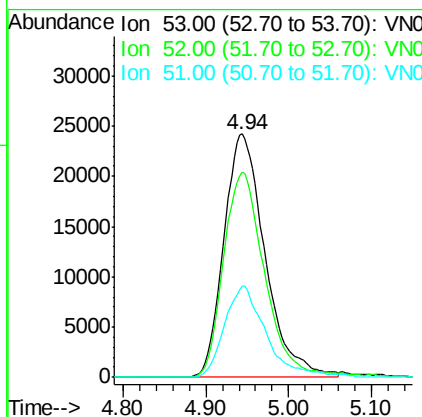
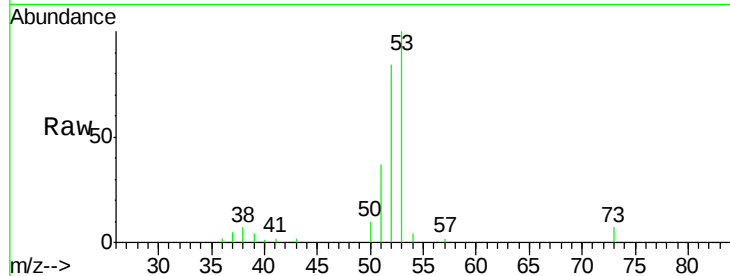
ClientSampleId :

VN0212MBS01

Tot Ion:	53	Resp:	83673
Ion	Ratio	Lower	Upper
53	100		
52	84.2	66.8	100.2
51	37.3	29.4	44.0

Manual Integrations
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2/13/2020 10:37:35 AM



#16

Acetone

Concen: 81.467 ug/l

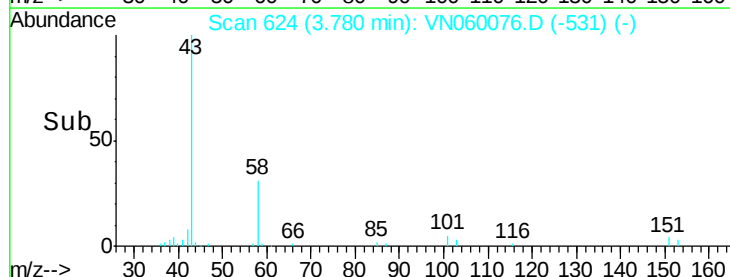
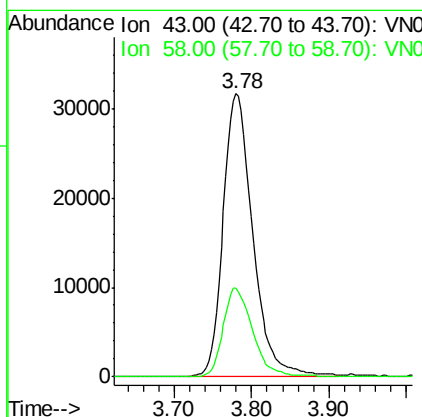
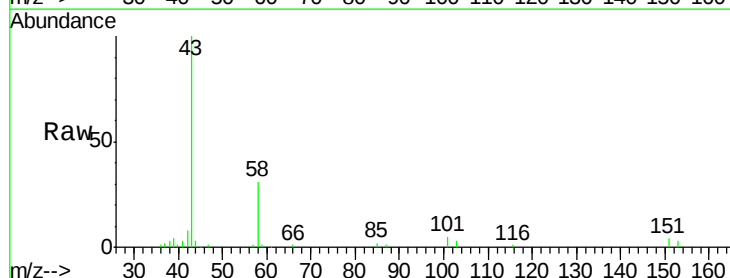
RT: 3.78 min Scan# 624

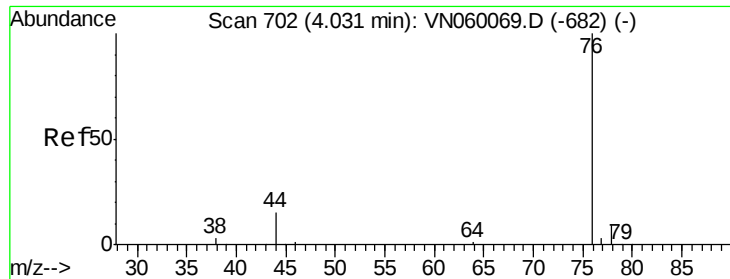
Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion:	43	Resp:	84532
Ion	Ratio	Lower	Upper
43	100		
58	31.2	25.2	37.8





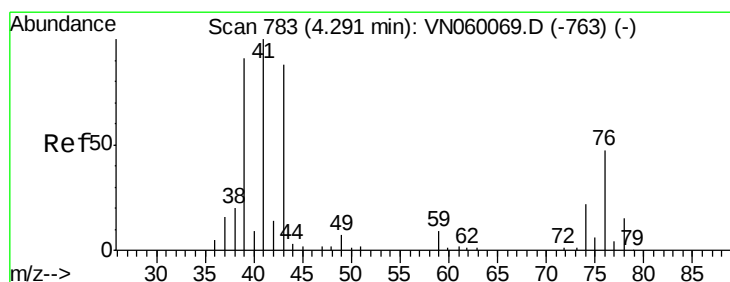
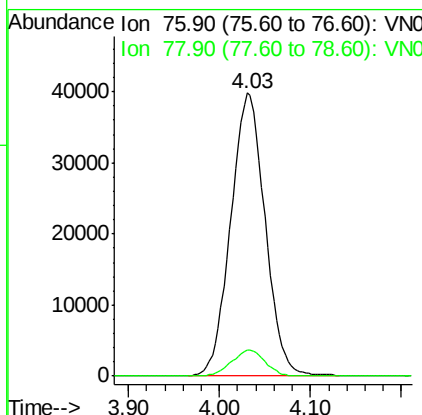
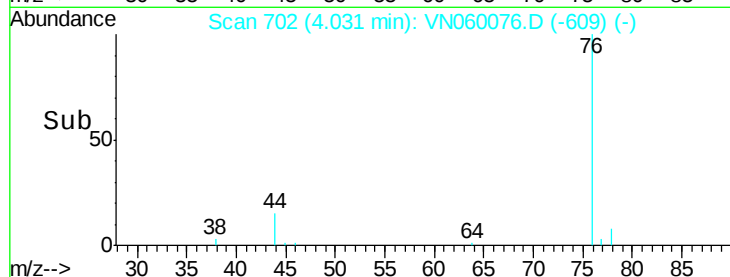
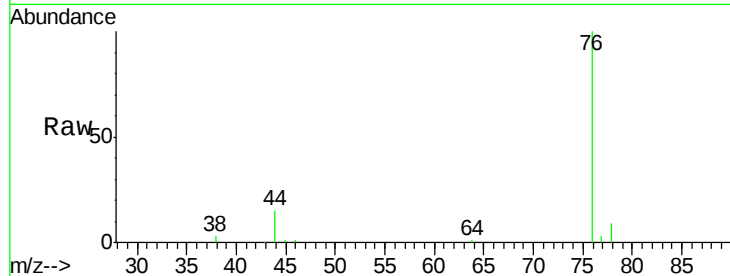
#17
Carbon Disulfide
Concen: 18.752 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6

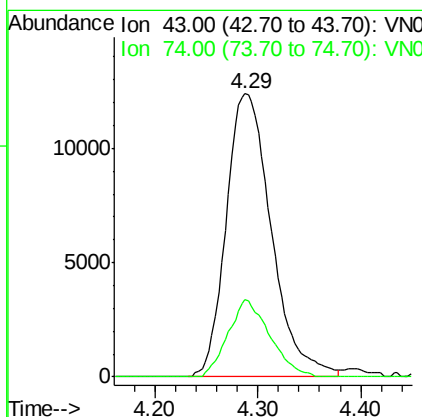
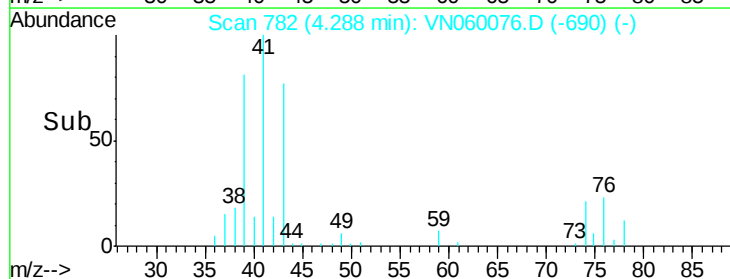
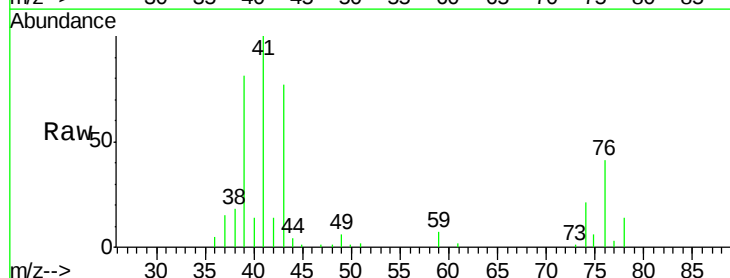
Manual Integrations
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MMDadoda
2/13/2020 10:37:35 AM



#18
Methyl Acetate
Concen: 19.373 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.2	20.3	30.5





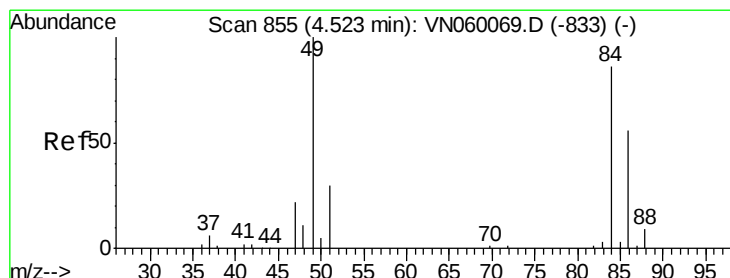
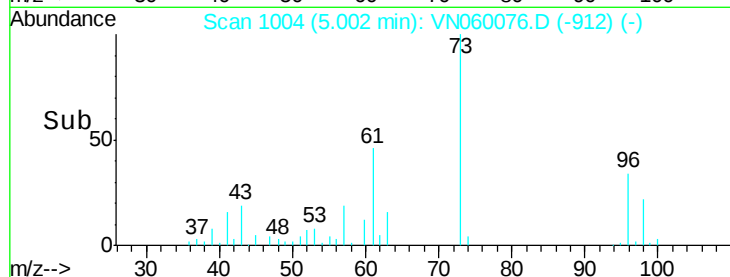
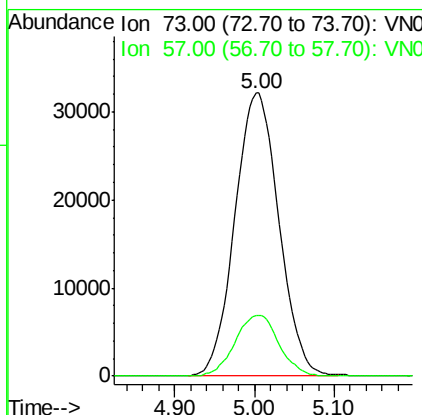
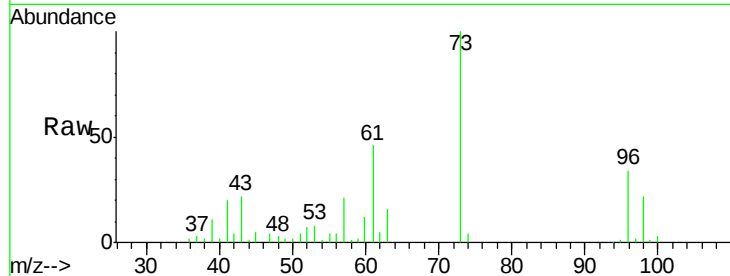
#19
Methyl tert-butyl Ether
Concen: 19.385 ug/l
RT: 5.00 min Scan# 1004
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion: 73 Resp: 120489
Ion Ratio Lower Upper
73 100
57 21.2 17.2 25.8

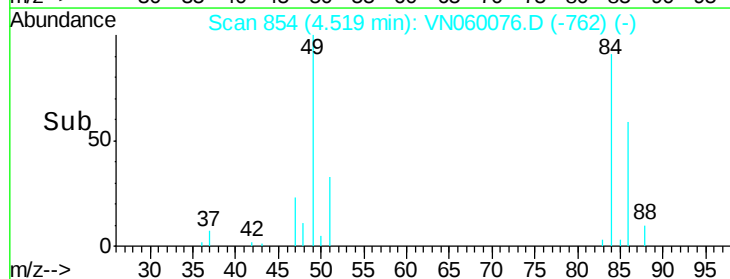
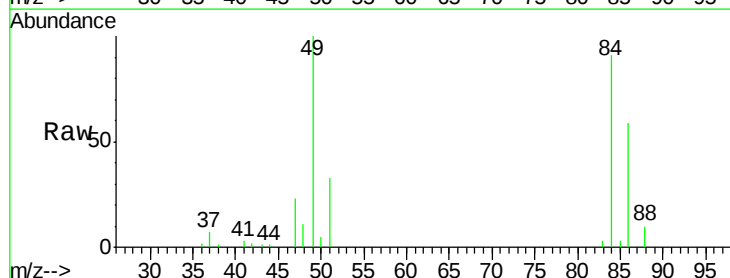
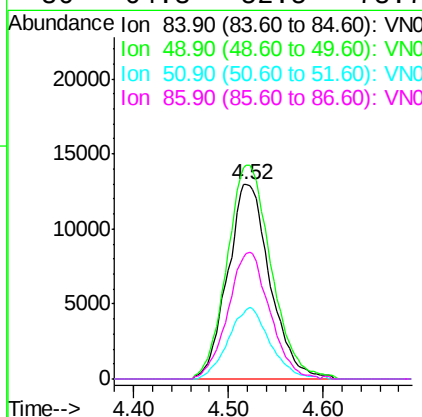
Manual Integrations
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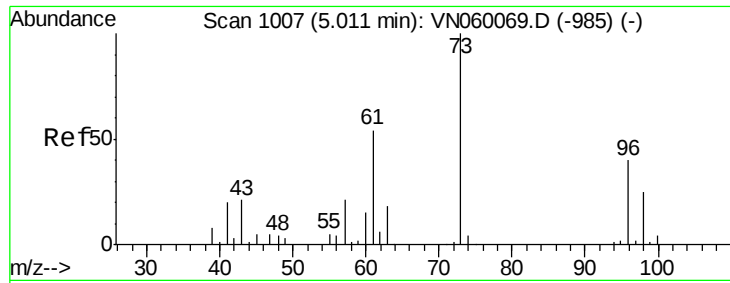
MMDadoda
2/13/2020 10:37:35 AM



#20
Methylene Chloride
Concen: 19.517 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion: 84 Resp: 40402
Ion Ratio Lower Upper
84 100
49 109.8 93.4 140.0
51 35.8 28.4 42.6
86 64.3 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 18.802 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 96 Resp: 37883

Ion Ratio Lower Upper

96 100

61 139.7 109.3 163.9

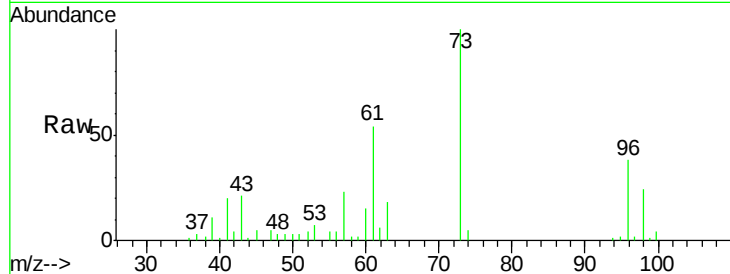
98 62.0 51.0 76.6

Manual Integrations

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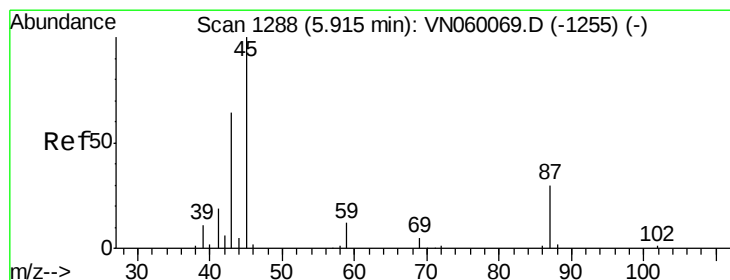
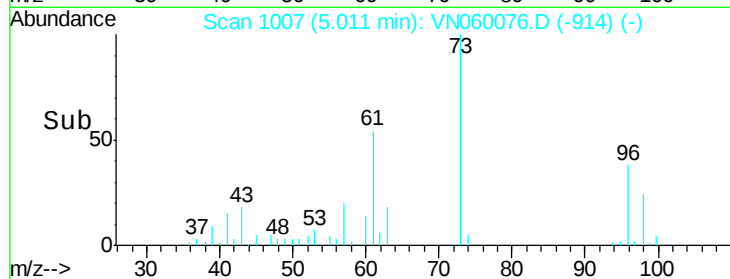
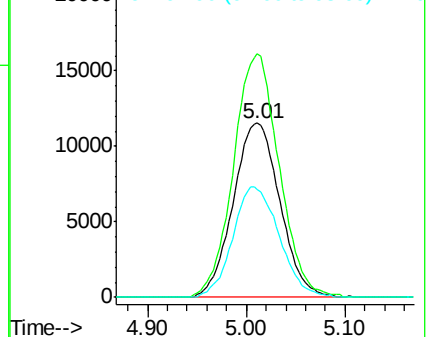
2/13/2020 10:37:35 AM



Abundance Ion 95.90 (95.60 to 96.60): VN060076.D (-985) (-)

Ion 60.90 (60.60 to 61.60): VN060076.D (-985) (-)

Ion 97.90 (97.60 to 98.60): VN060076.D (-985) (-)



#22

Diisopropyl ether

Concen: 19.247 ug/l

RT: 5.91 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion: 45 Resp: 114752

Ion Ratio Lower Upper

45 100

43 75.4 55.9 83.9

87 31.2 24.5 36.7

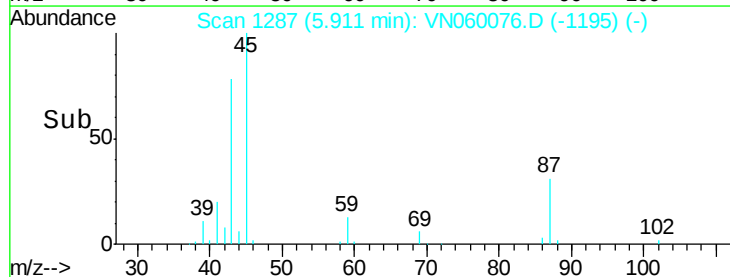
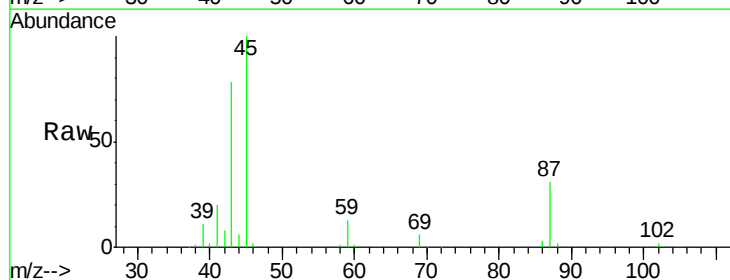
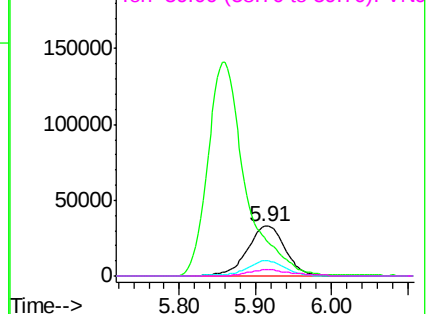
59 12.7 9.9 14.9

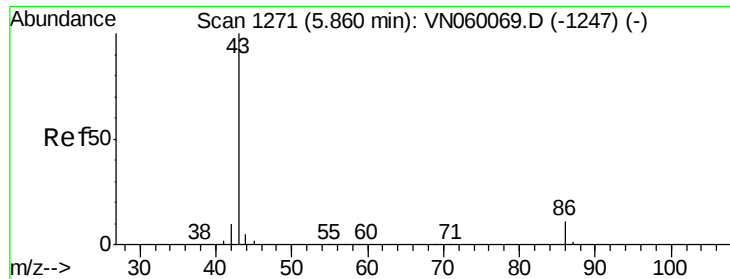
Abundance Ion 45.00 (44.70 to 45.70): VN060076.D (-1195) (-)

Ion 43.00 (42.70 to 43.70): VN060076.D (-1195) (-)

Ion 87.00 (86.70 to 87.70): VN060076.D (-1195) (-)

Ion 59.00 (58.70 to 59.70): VN060076.D (-1195) (-)





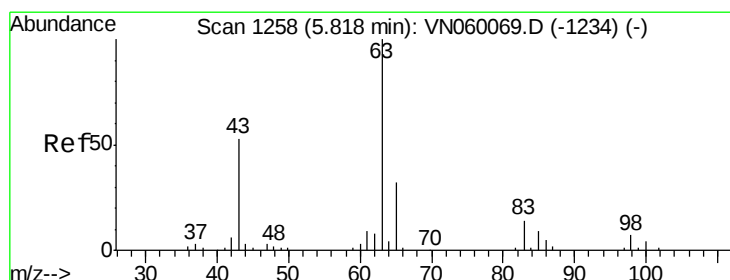
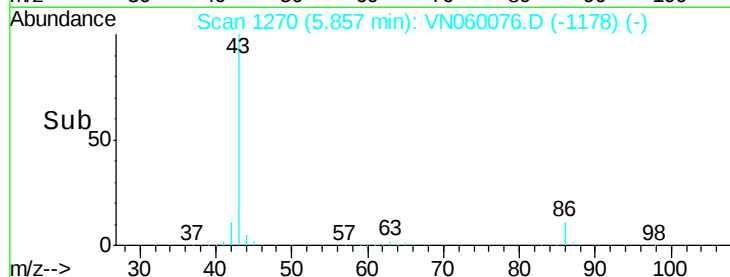
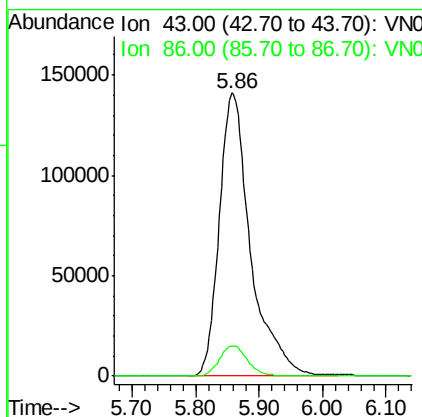
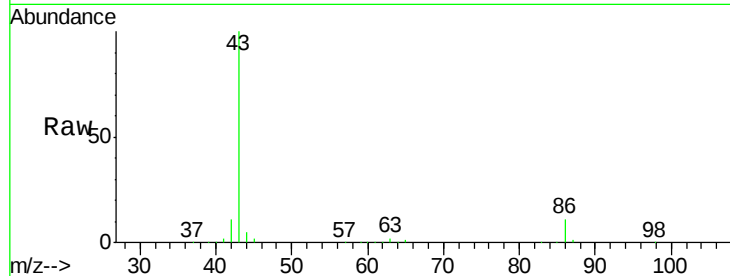
#23
 Vinyl Acetate
 Concen: 96.463 ug/l
 RT: 5.86 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	43	Resp	482965
Ion Ratio	100	Lower	Upper
43	100		
86	10.7	8.9	13.3

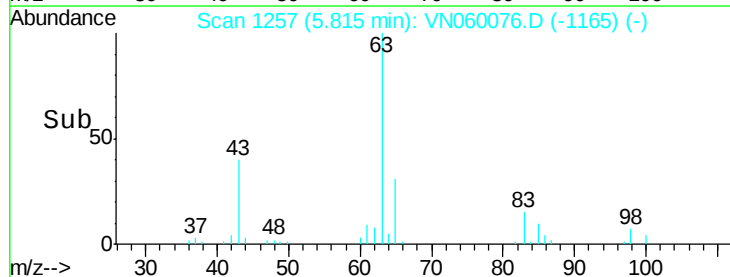
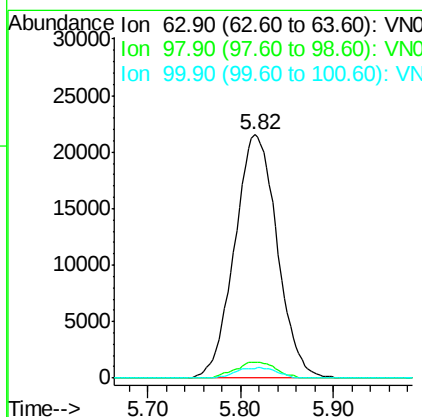
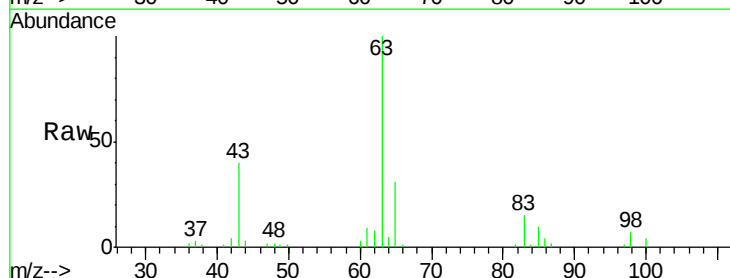
Manual Integrations
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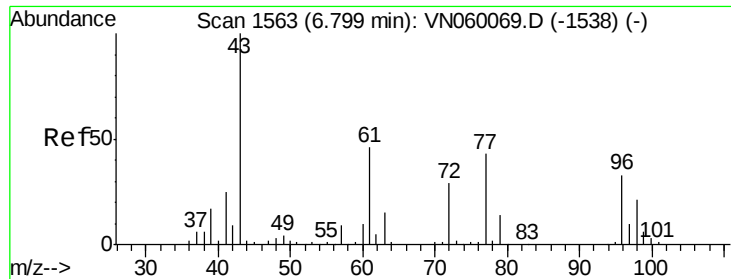
MMDadoda
 2/13/2020 10:37:35 AM



#24
 1,1-Dichloroethane
 Concen: 18.982 ug/l
 RT: 5.82 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	63	Resp	68558
Ion Ratio	100	Lower	Upper
63	100		
98	6.6	3.5	10.5
100	4.1	2.2	6.6





#25

2-Butanone

Concen: 89.542 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 43 Resp: 116852

Ion Ratio Lower Upper

43 100

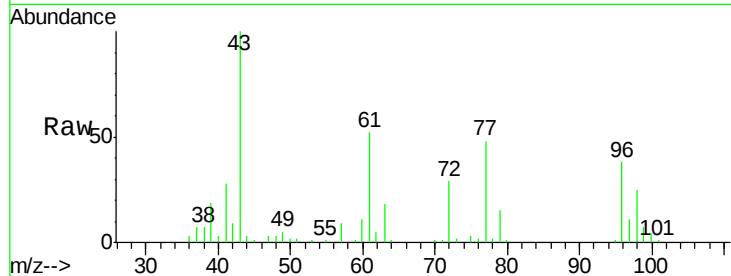
72 29.4 23.3 34.9

Manual Integrations

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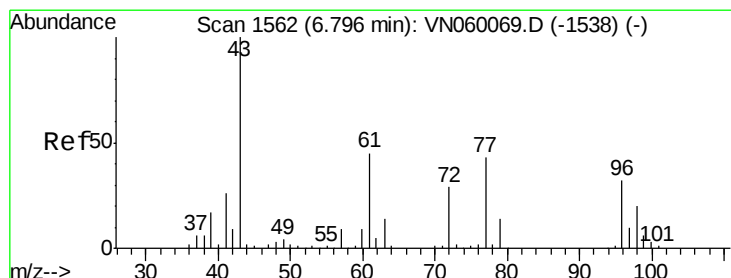
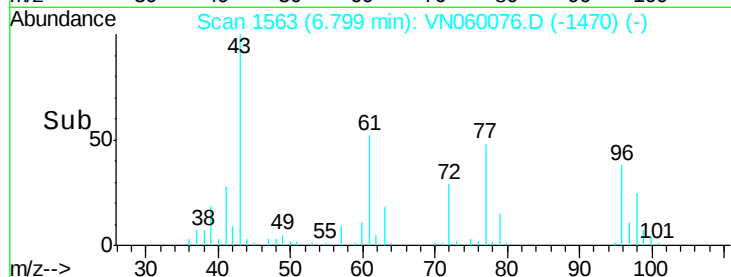
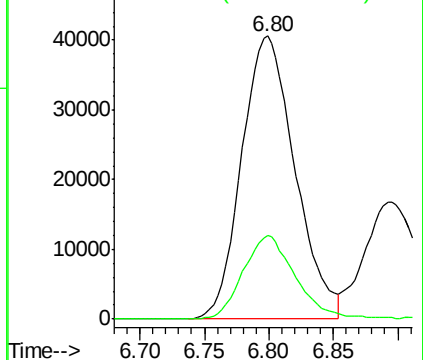
MMDadoda

2/13/2020 10:37:35 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: 18.406 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. -0.00 min

Lab File: VN060076.D

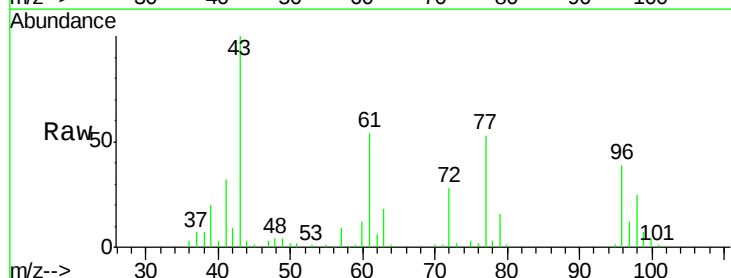
Acq: 12 Feb 2020 16:22

Tgt Ion: 77 Resp: 63141

Ion Ratio Lower Upper

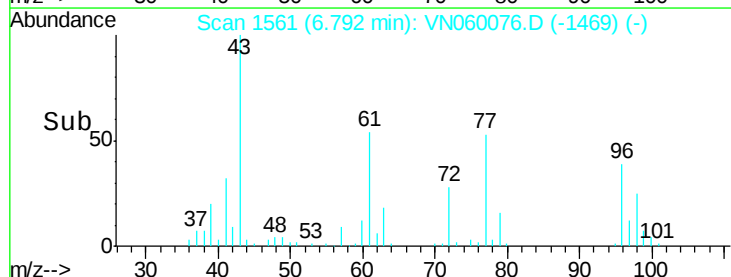
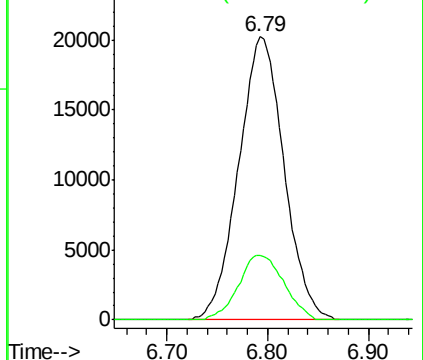
77 100

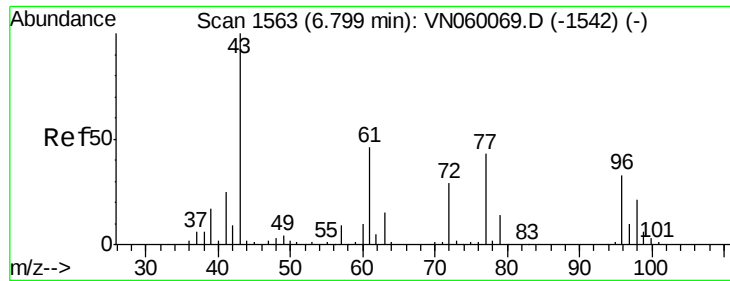
97 22.8 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





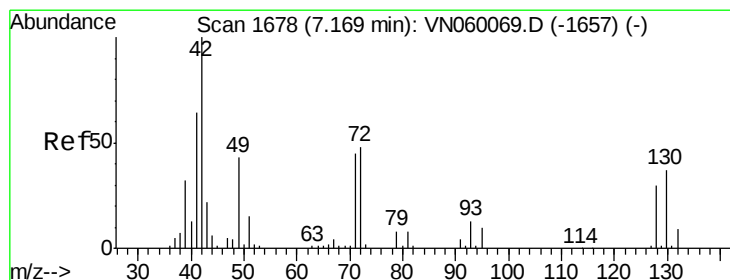
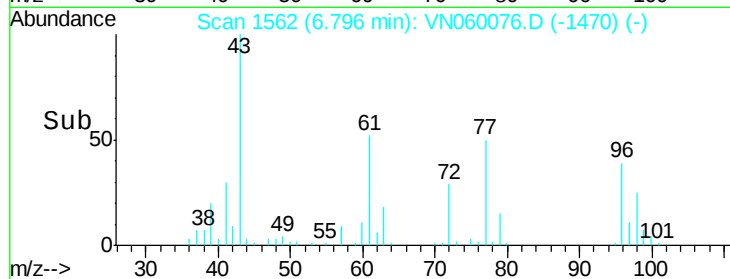
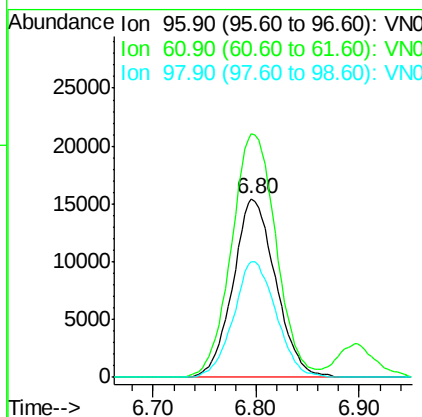
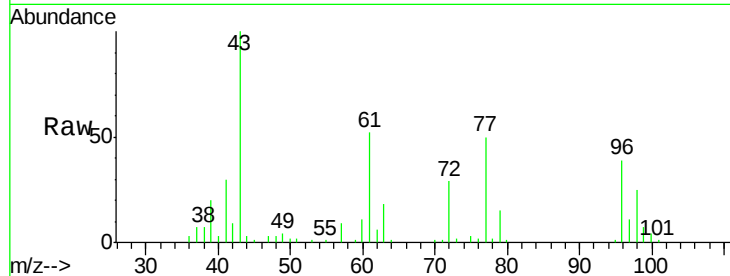
#27
 cis-1,2-Dichloroethene
 Concen: 18.832 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.3	0.0	285.8
98	64.7	0.0	129.6

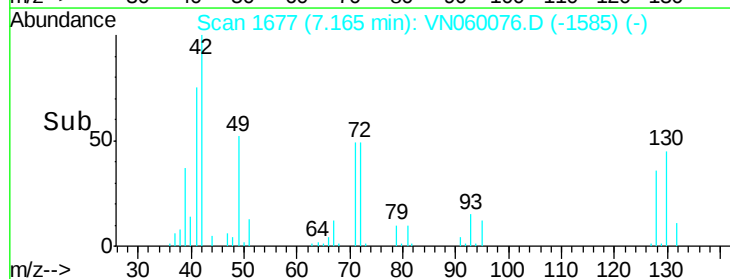
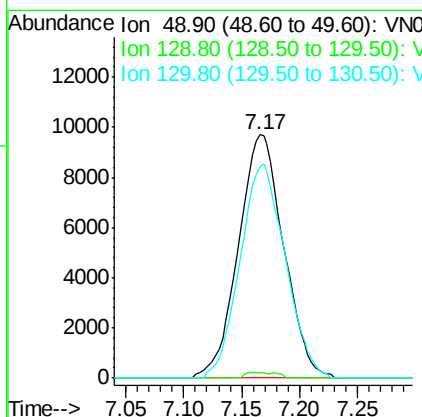
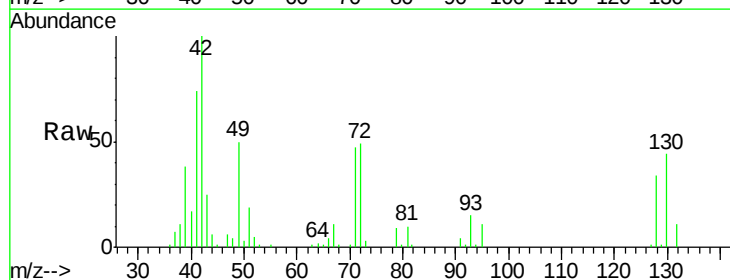
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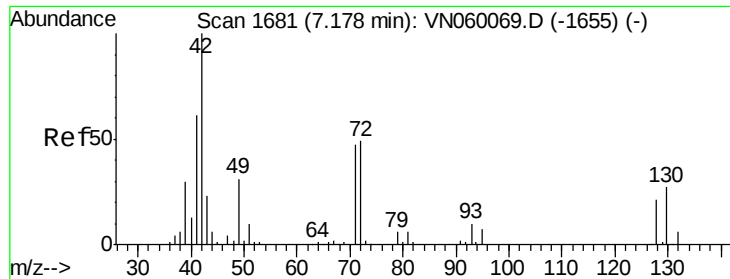
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 2/13/2020 10:37:35 AM



#28
 Bromochloromethane
 Concen: 18.569 ug/l
 RT: 7.17 min Scan# 1677
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	2.2
130	87.9	66.8	100.2





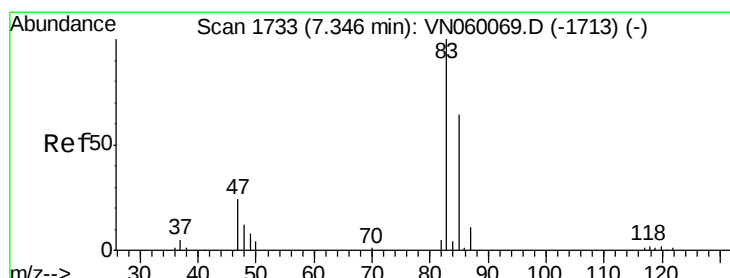
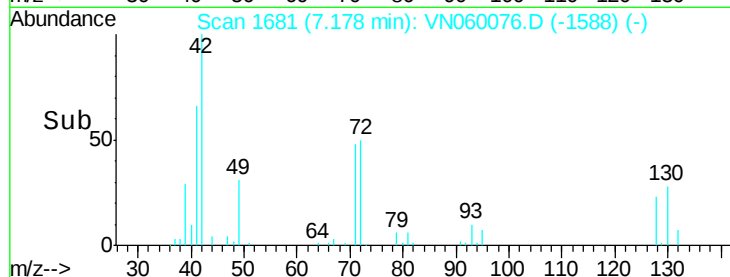
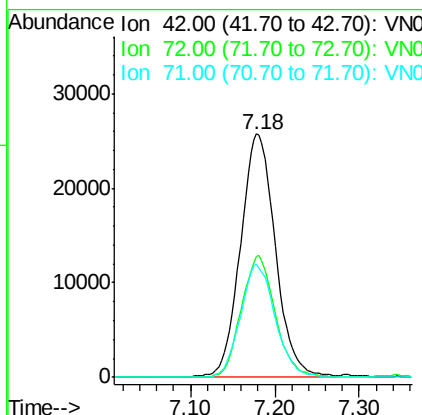
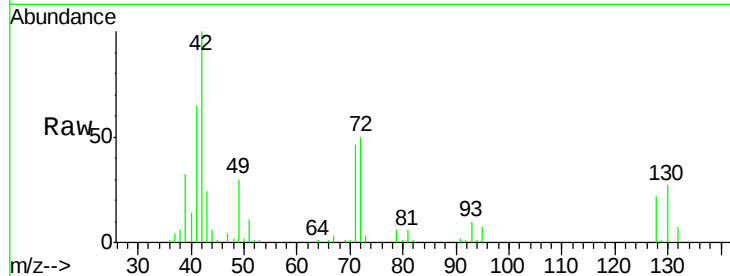
#29
Tetrahydrofuran
Concen: 92.848 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.4	38.2	57.4
71	45.8	36.6	54.8

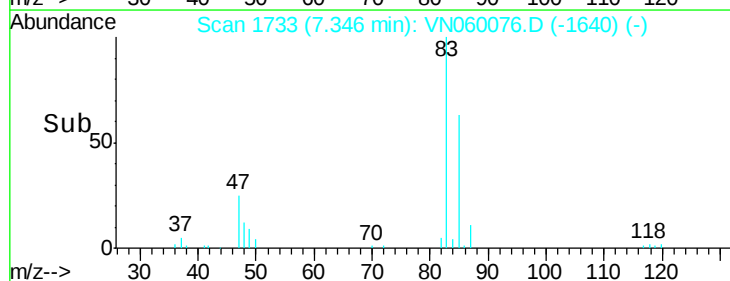
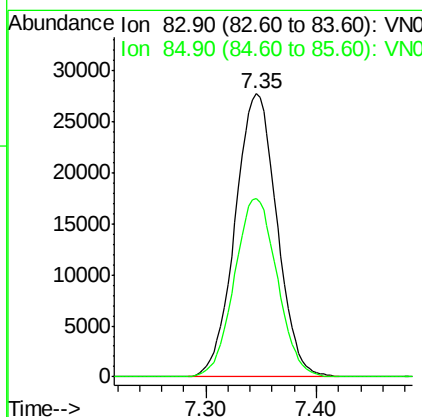
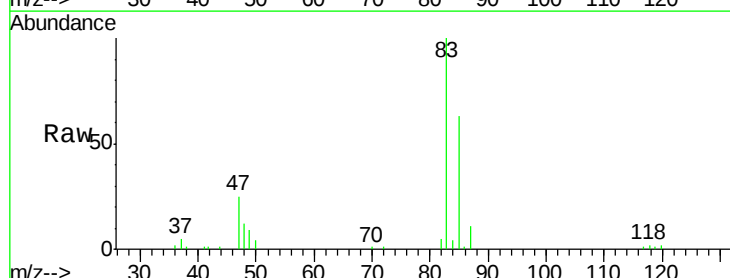
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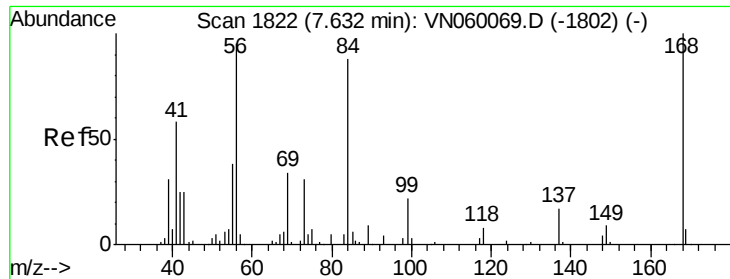
MMDadoda
2/13/2020 10:37:35 AM



#30
Chloroform
Concen: 19.244 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.4	77.0





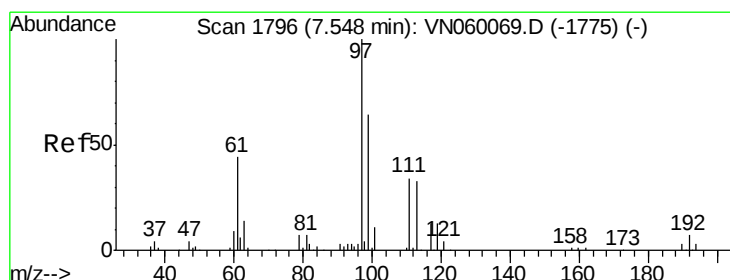
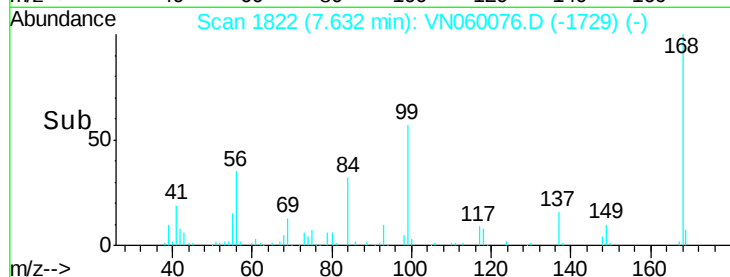
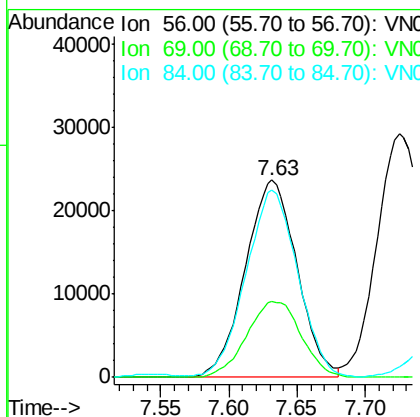
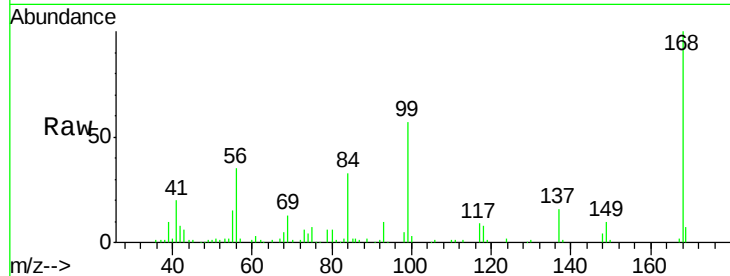
#31
Cyclohexane
Concen: 18.556 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.4	28.3	42.5
84	94.6	72.6	108.8

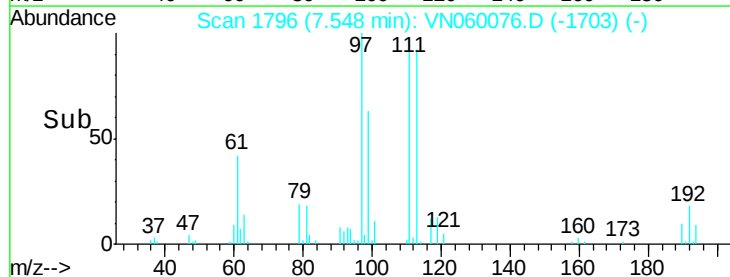
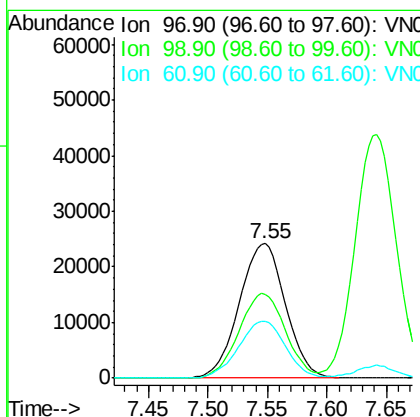
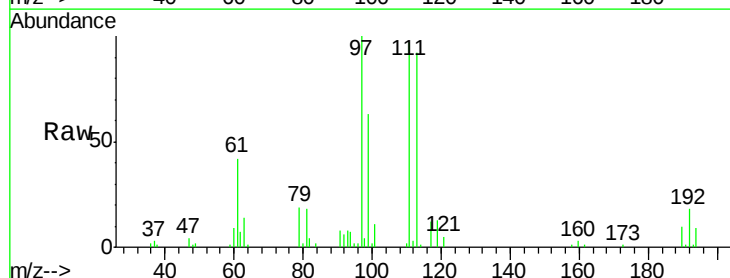
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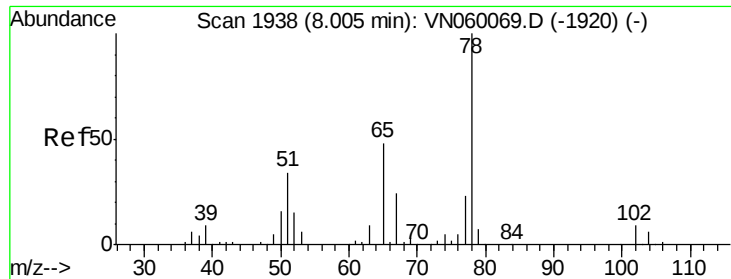
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#32
1,1,1-Trichloroethane
Concen: 18.815 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.4	77.0
61	42.9	34.9	52.3





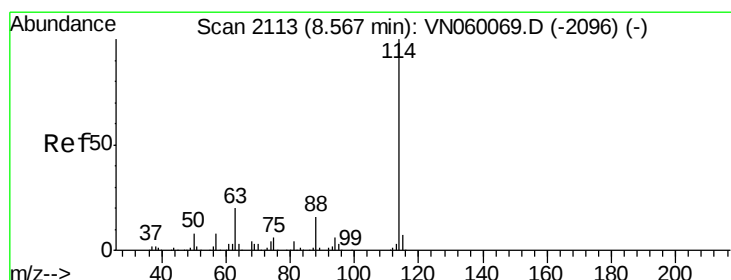
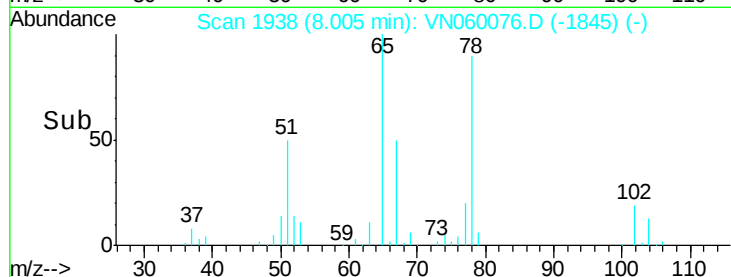
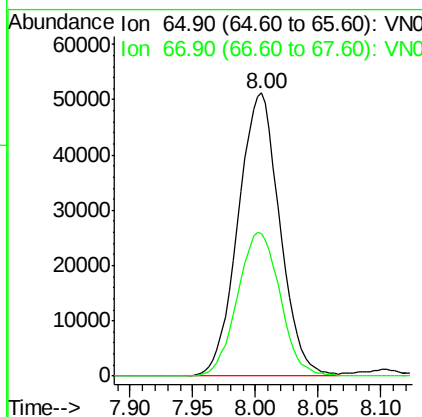
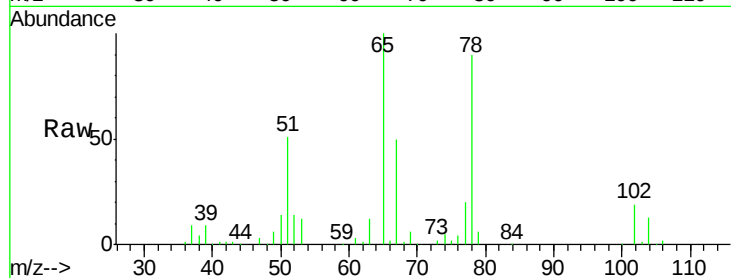
#33
 1,2-Dichloroethane-d4
 Concen: 49.837 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	51.8	0.0	104.0	

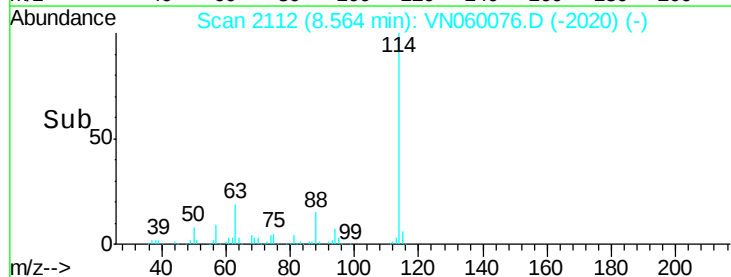
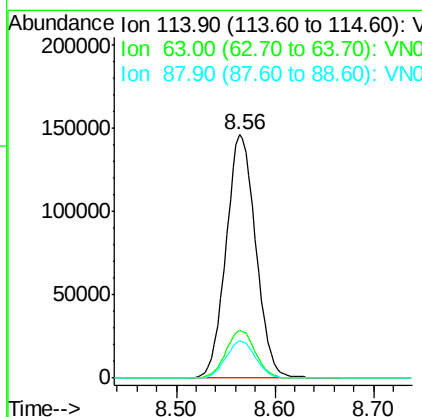
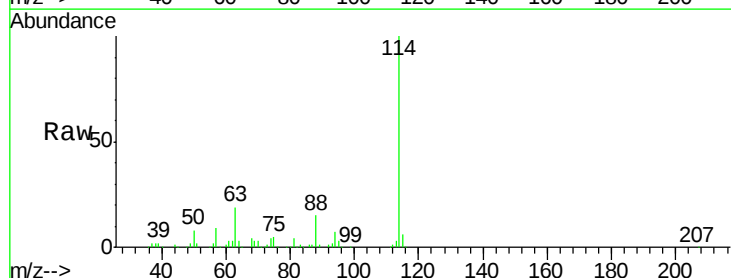
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.4	0.0	40.0	
88	15.2	0.0	31.6	





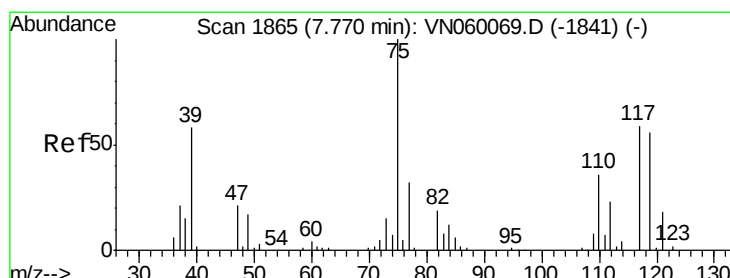
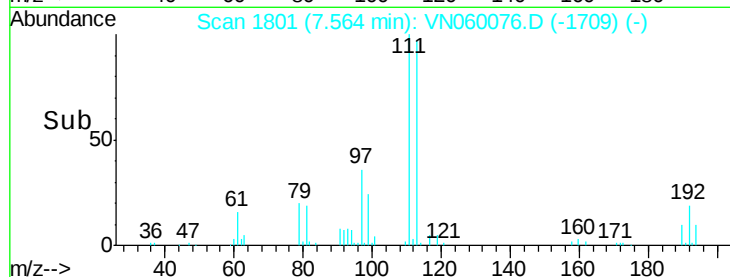
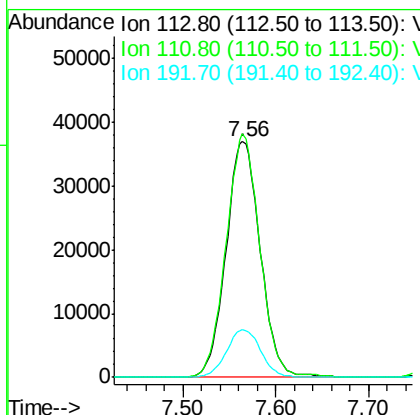
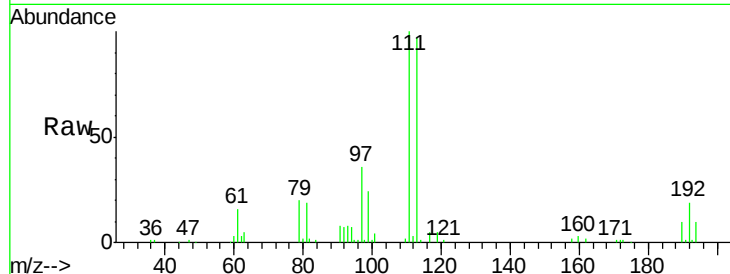
#35
 Dibromofluoromethane
 Concen: 50.166 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.4	122.2
192	20.2	16.2	24.2

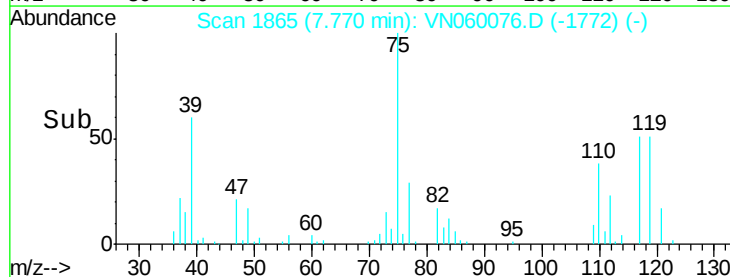
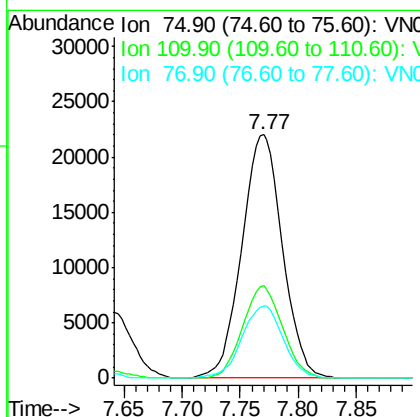
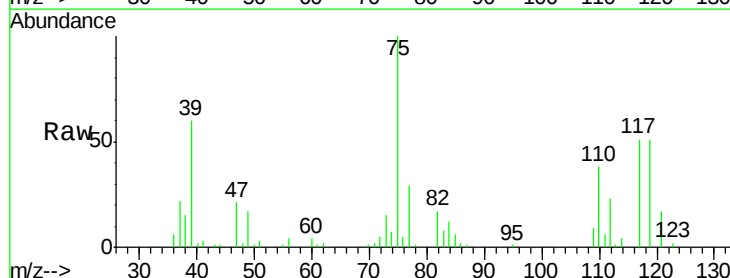
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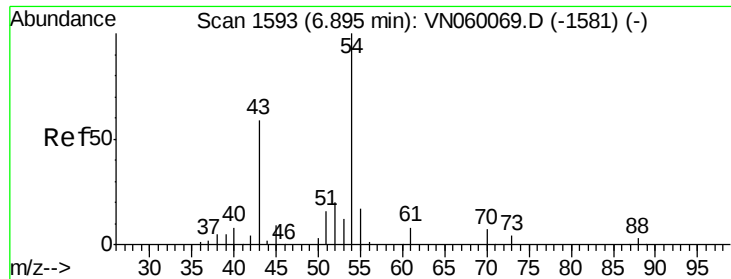
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#36
 1,1-Dichloropropene
 Concen: 18.939 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.9	18.1	54.3
77	30.1	25.1	37.7





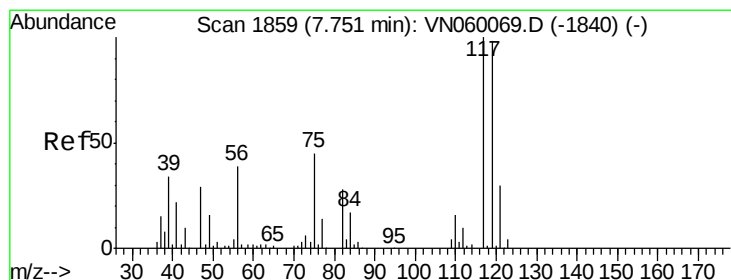
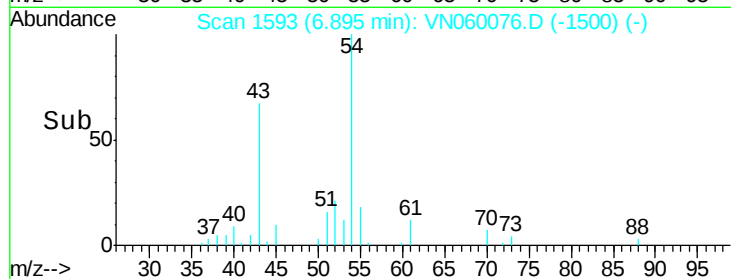
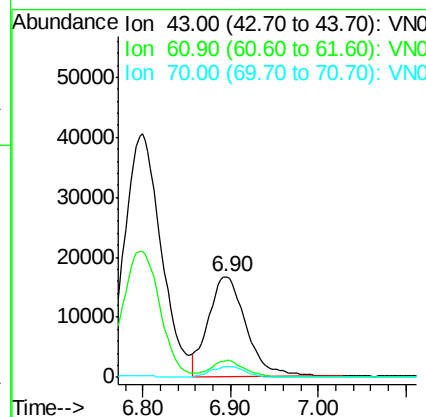
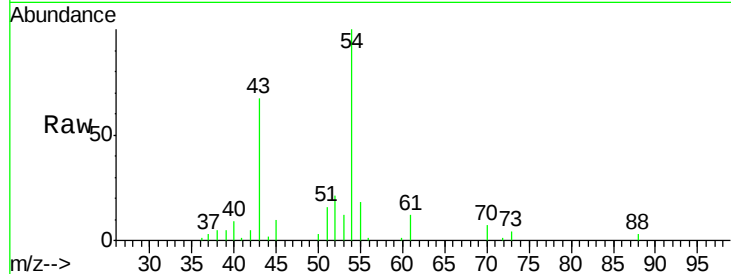
#37
Ethyl Acetate
Concen: 19.554 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampled :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	11.4	17.2
70	9.7	8.7	13.1

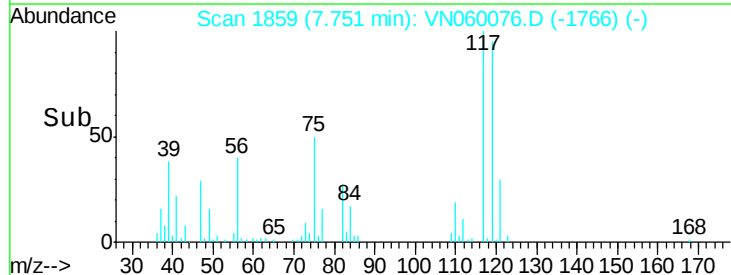
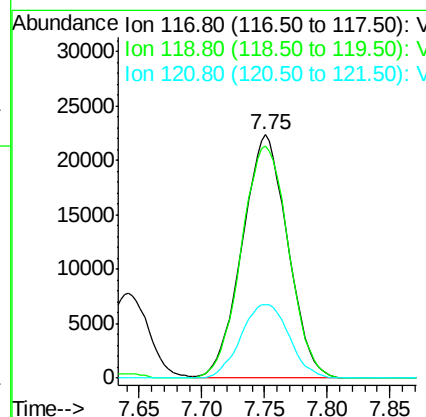
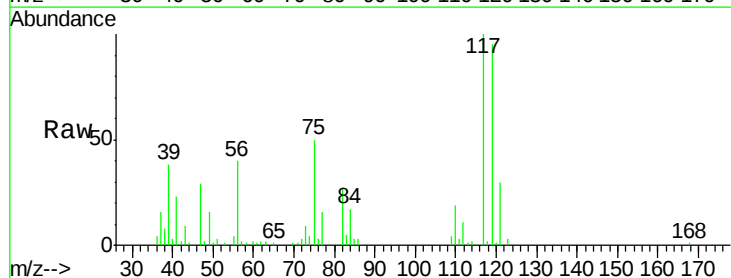
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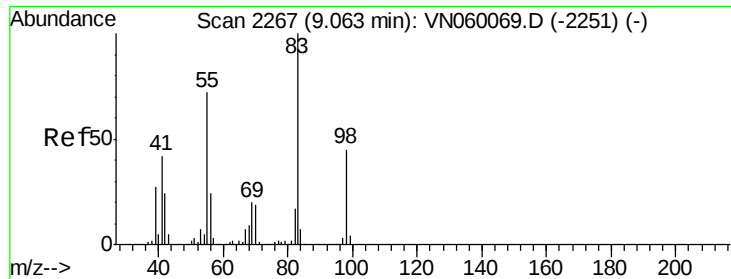
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#38
Carbon Tetrachloride
Concen: 18.333 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	78.2	117.4
121	30.2	24.2	36.2





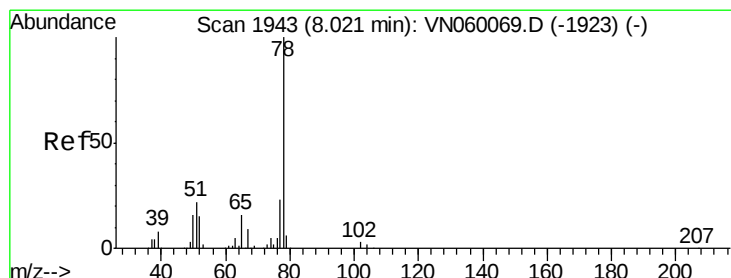
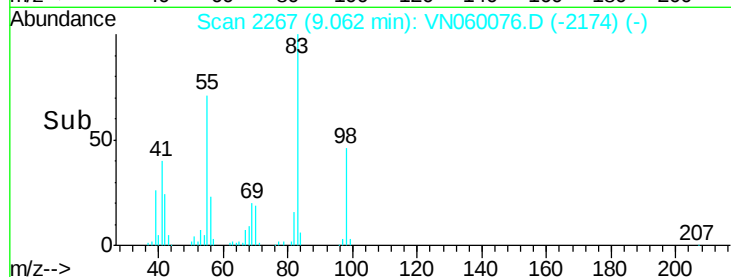
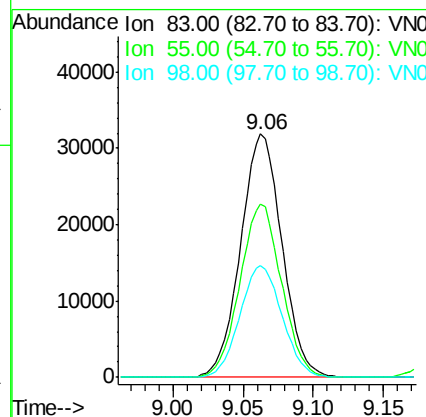
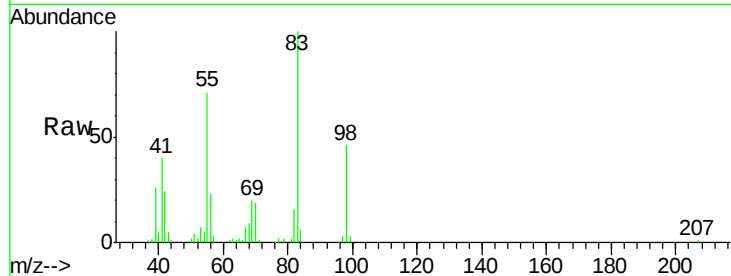
#39
Methvlcvclohexane
Concen: 18.574 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.4	57.8	86.8
98	45.7	36.4	54.6

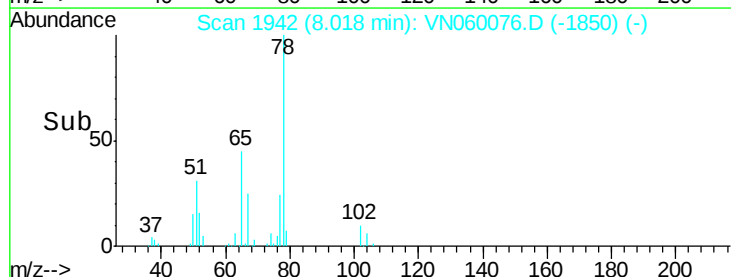
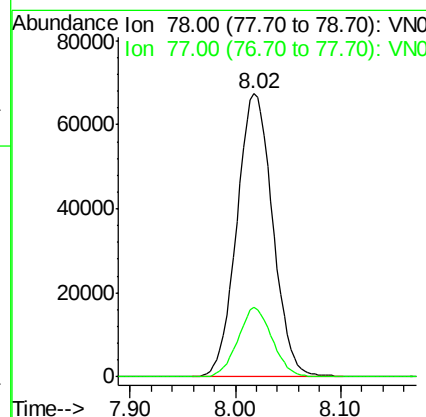
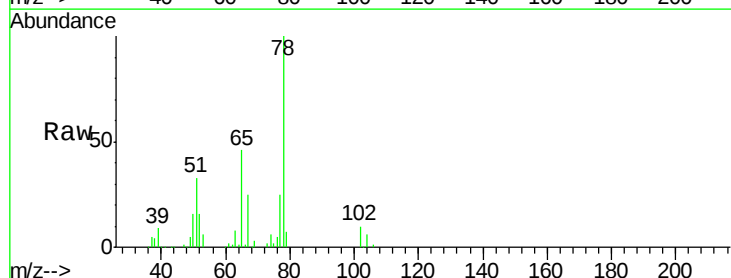
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2/13/2020 10:37:35 AM



#40
Benzene
Concen: 18.899 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2





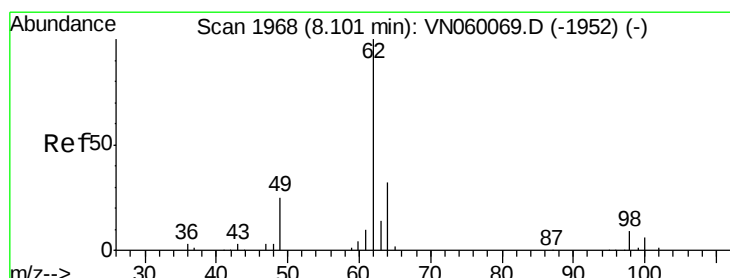
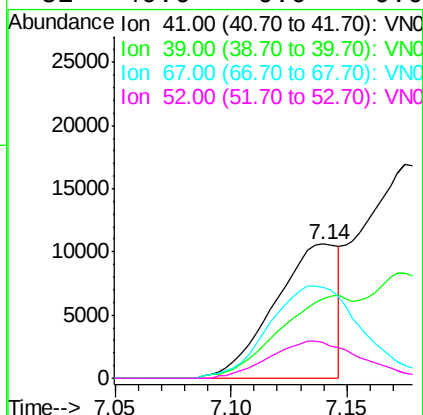
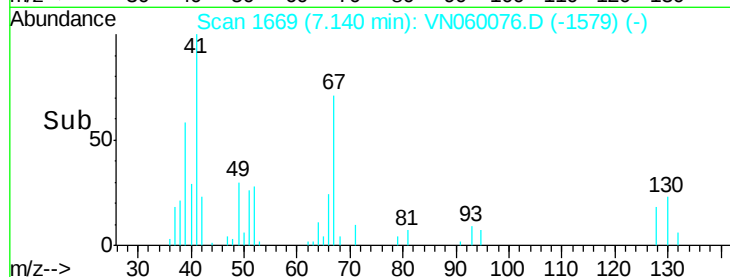
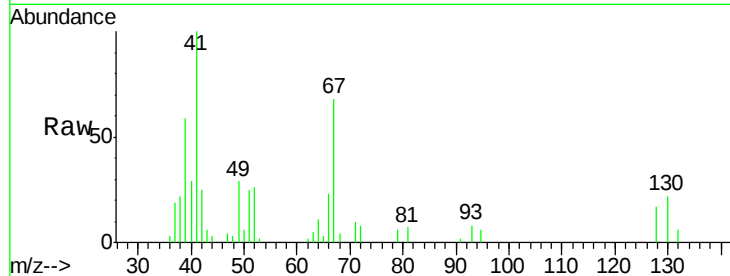
#41
Methacrylonitrile
Concen: 18.828 ug/l
RT: 7.14 min Scan# 1669
Delta R.T. -0.01 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	41	Resp	20268
Ion Ratio	Lower	Upper	
41	100		
39	70.1	0.0	0.0#
67	102.2	0.0	0.0#
52	40.6	0.0	0.0#

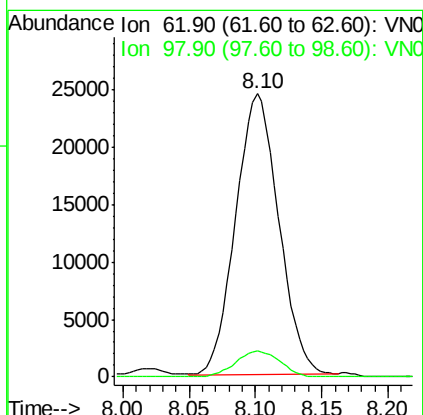
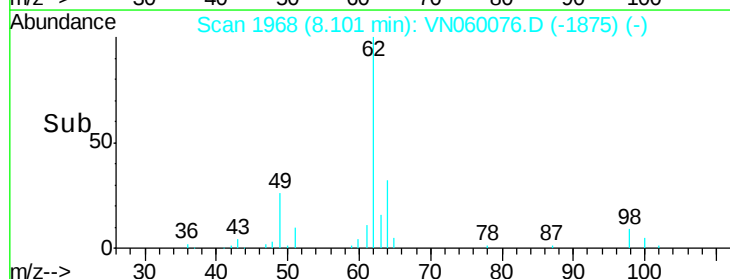
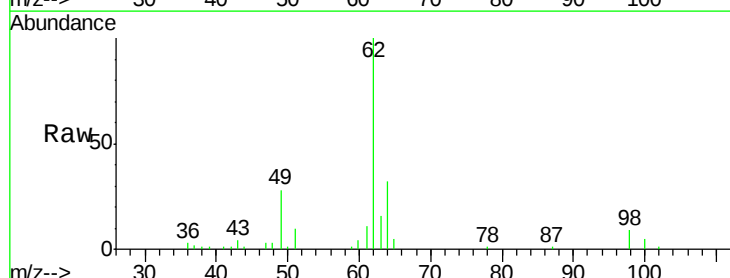
Manual Integrations
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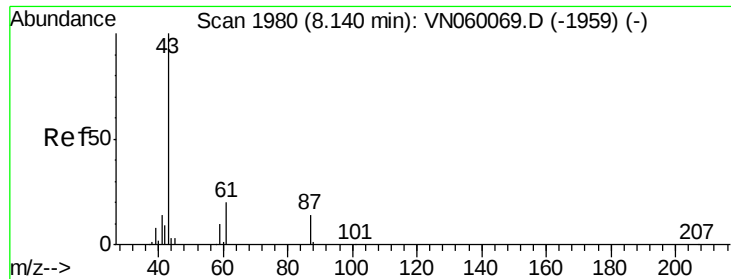
MMDadoda
2/13/2020 10:37:35 AM



#42
1,2-Dichloroethane
Concen: 18.831 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	62	Resp	55605
Ion Ratio	Lower	Upper	
62	100		
98	9.4	0.0	18.2





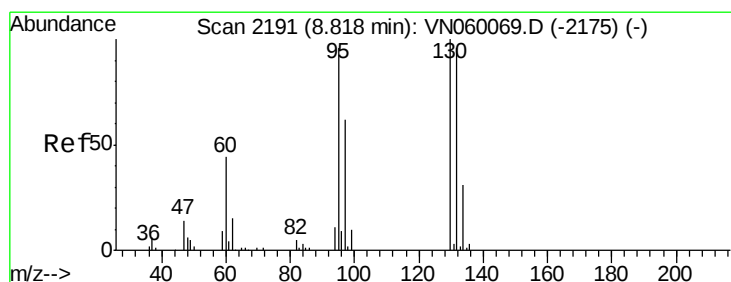
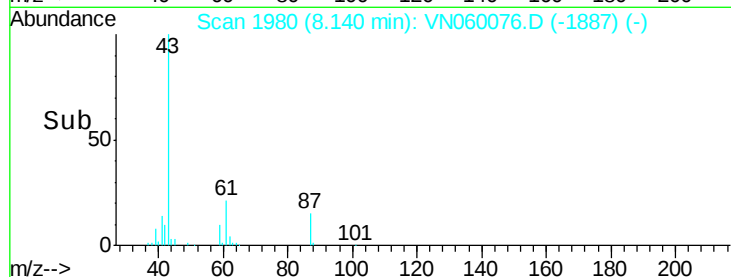
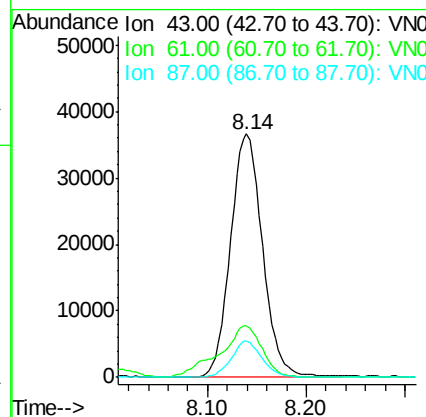
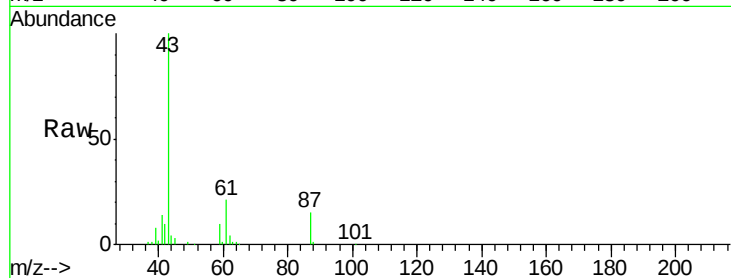
#43
Isopropyl Acetate
Concen: 19.024 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.9	21.8	32.6
87	14.2	11.4	17.2

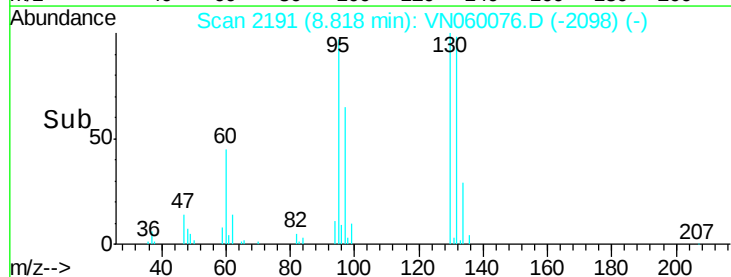
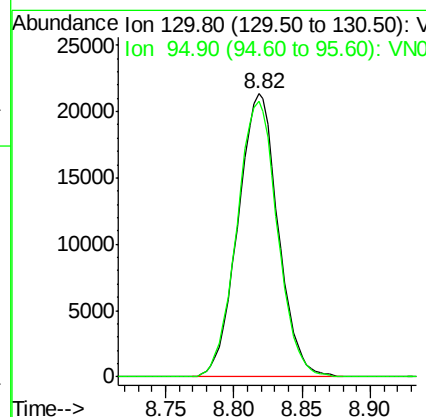
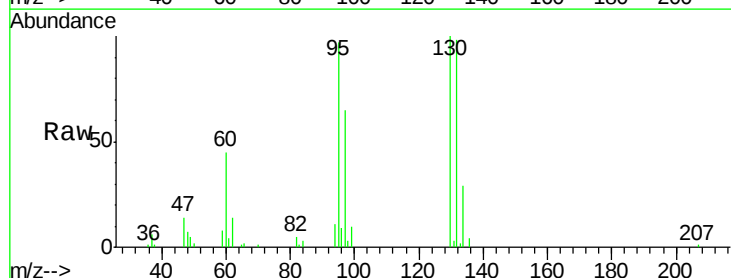
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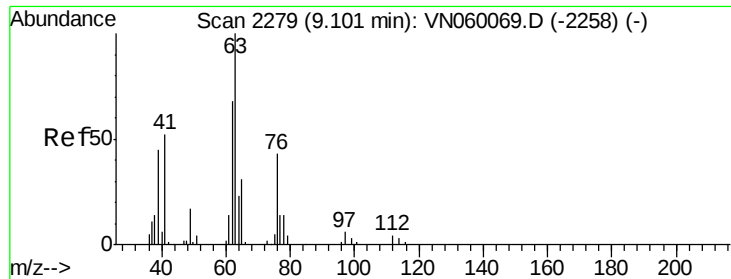
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#44
Trichloroethene
Concen: 18.643 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.3	0.0	192.4





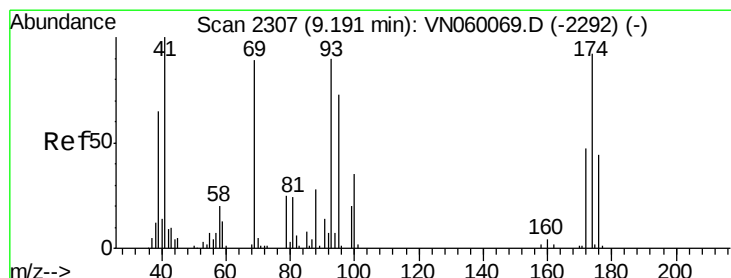
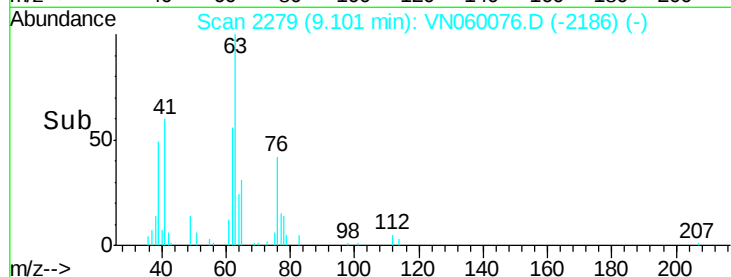
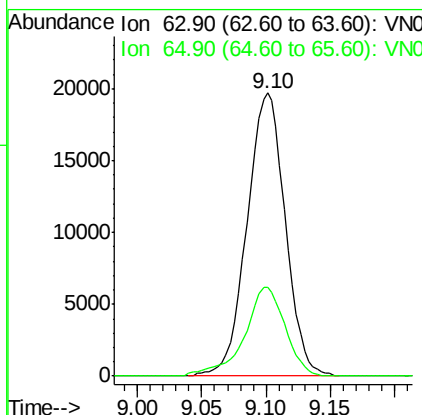
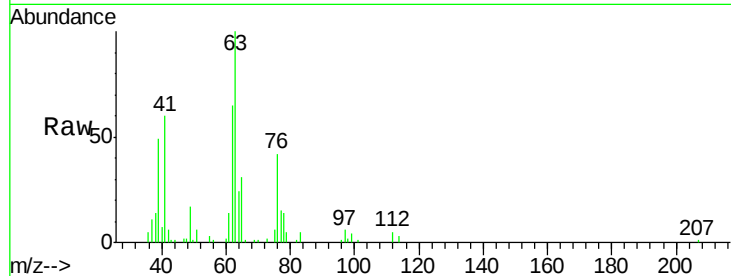
#45
 1,2-Dichloropropane
 Concen: 19.521 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion: 63 Resp: 40718
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.0 37.4

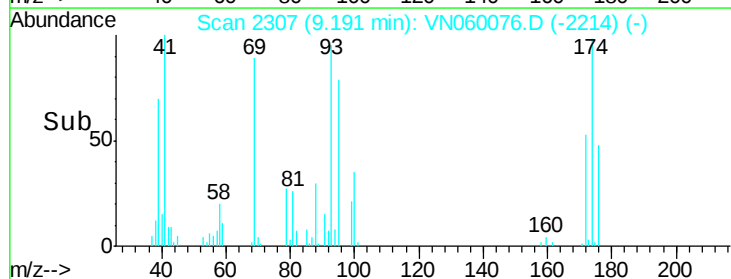
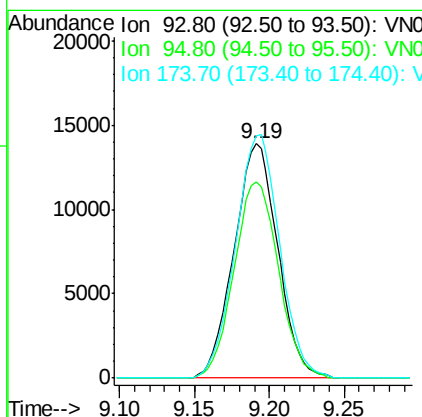
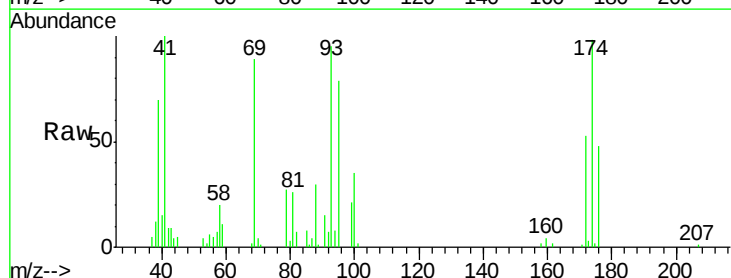
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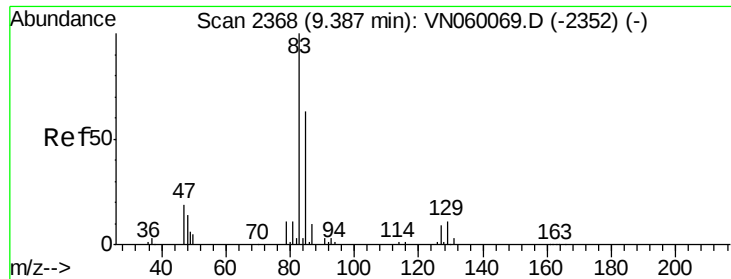
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 2/13/2020 10:37:35 AM



#46
 Dibromomethane
 Concen: 19.219 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion: 93 Resp: 28329
 Ion Ratio Lower Upper
 93 100
 95 84.9 65.0 97.6
 174 104.9 82.3 123.5





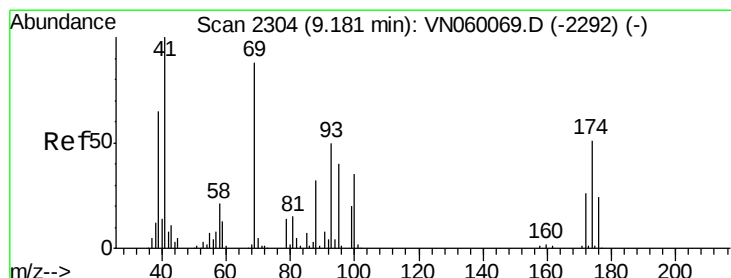
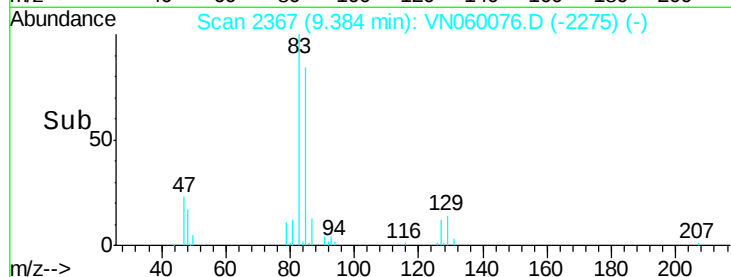
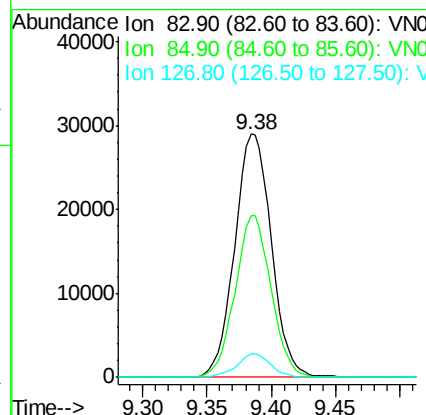
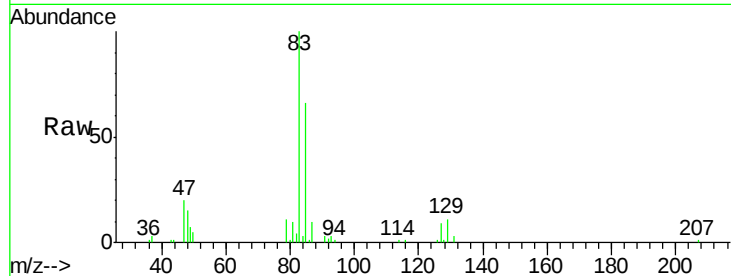
#47
Bromodichloromethane
Concen: 19.128 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion:	83	Resp:	57321
Ion	Ratio	Lower	Upper
83	100		
85	66.4	50.6	75.8
127	9.5	7.0	10.6

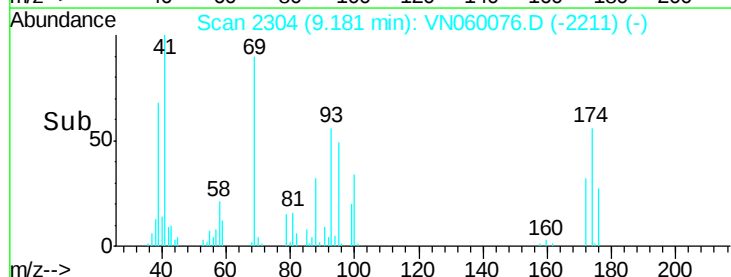
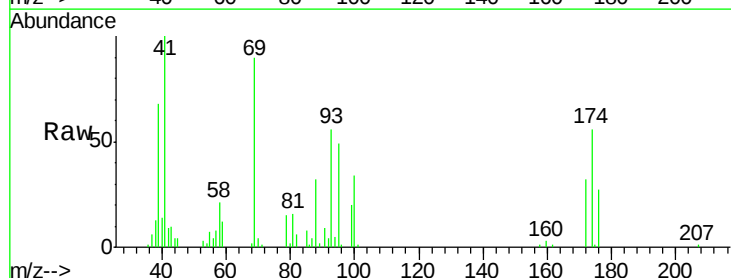
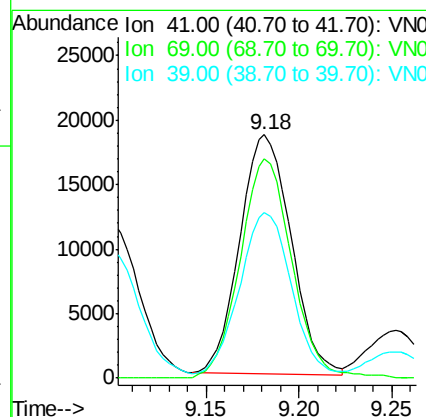
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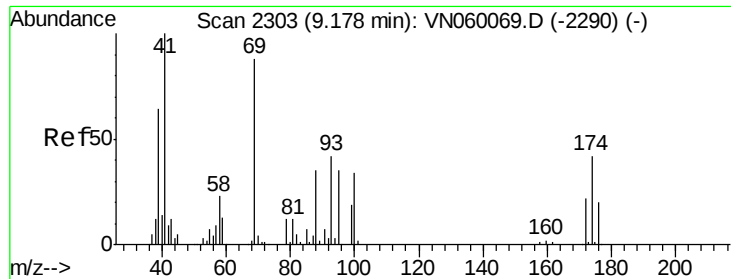
MMDadoda
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#48
Methyl methacrylate
Concen: 18.182 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion:	41	Resp:	35794
Ion	Ratio	Lower	Upper
41	100		
69	92.3	72.0	108.0
39	71.1	54.1	81.1





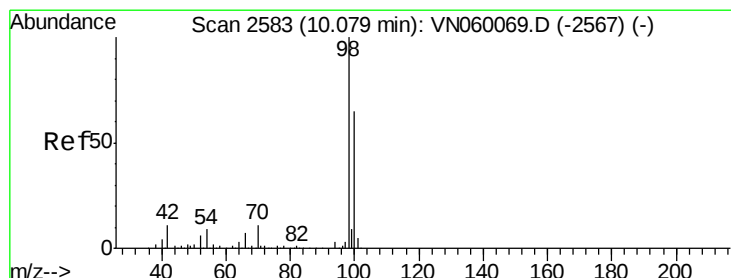
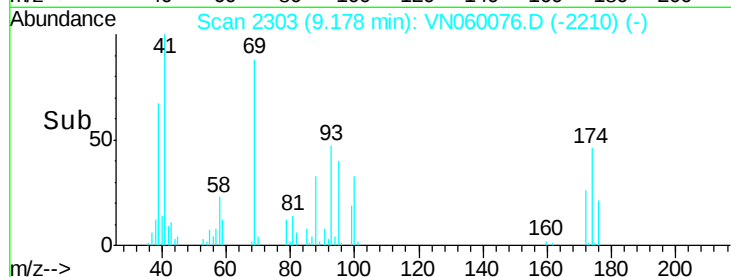
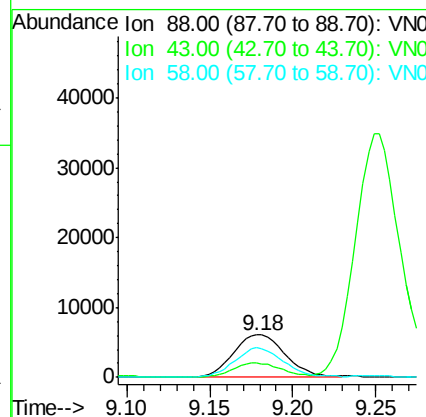
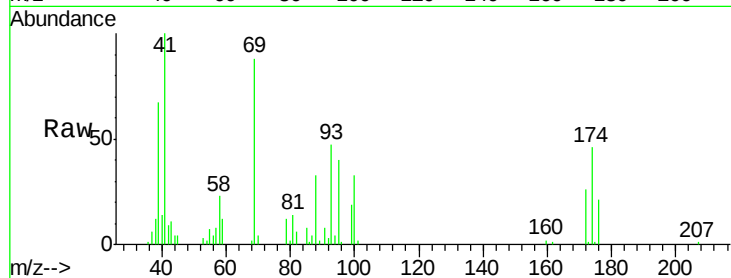
#49
1,4-Dioxane
Concen: 396.439 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	32.0	26.2	39.2
58	65.1	53.2	79.8

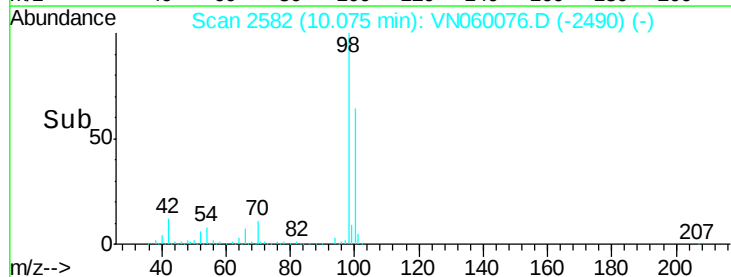
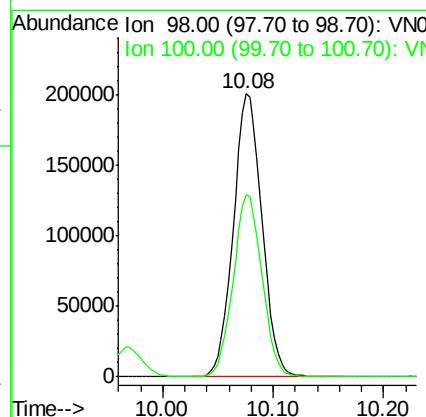
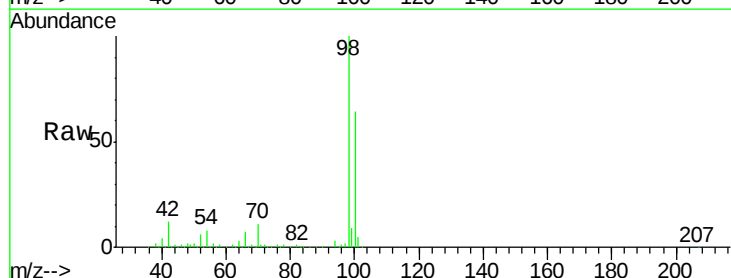
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#50
Toluene-d8
Concen: 48.807 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 94.947 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampled :

VN0212MBS01

Tot Ion: 43 Resp: 241144

Ion Ratio Lower Upper

43 100

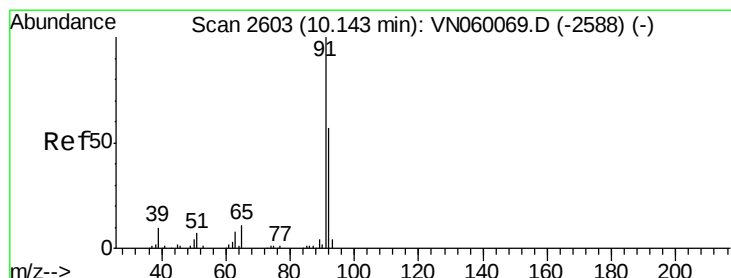
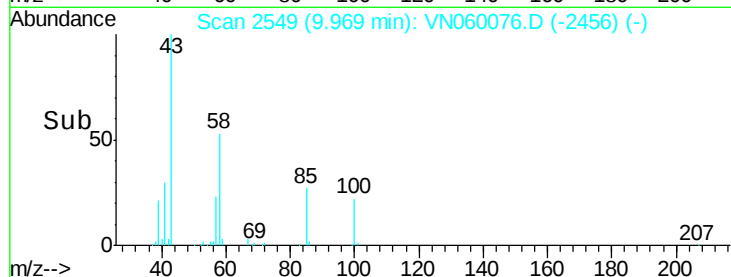
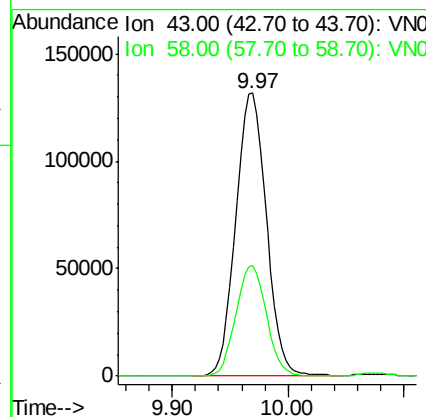
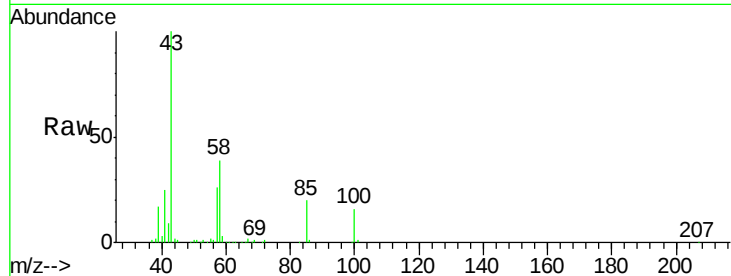
58 39.0 31.8 47.8

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#52

Toluene

Concen: 18.834 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060076.D

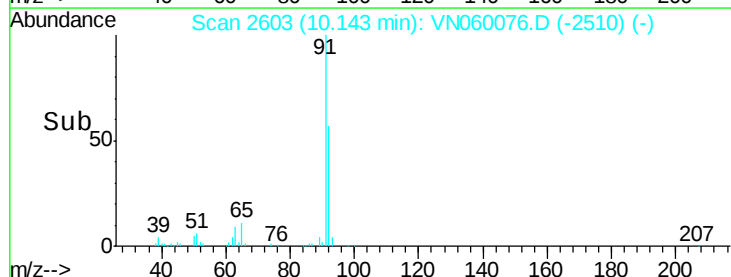
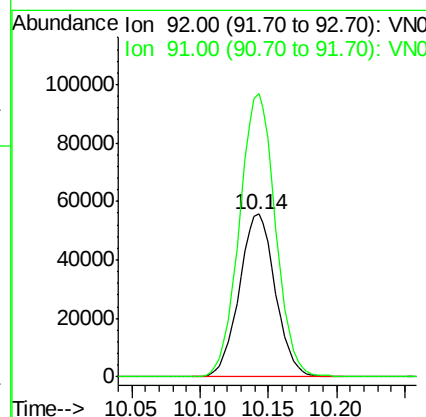
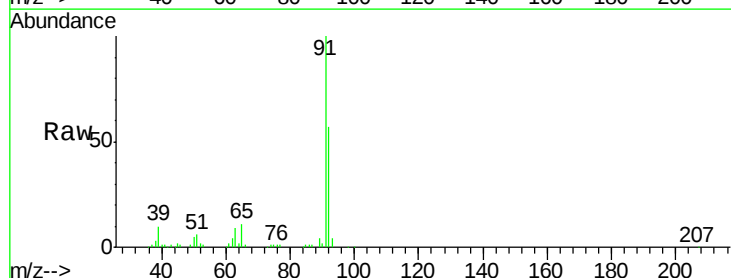
Acq: 12 Feb 2020 16:22

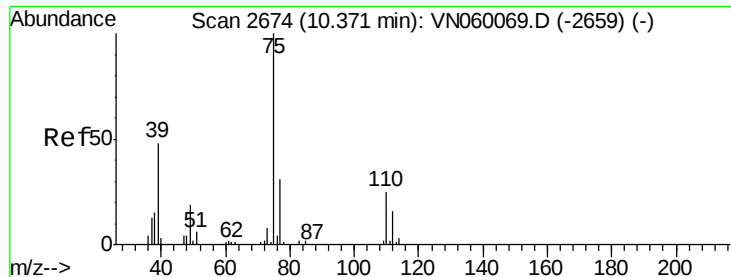
Tgt Ion: 92 Resp: 101754

Ion Ratio Lower Upper

92 100

91 174.2 140.9 211.3





#53

t-1,3-Dichloropropene

Concen: 19.267 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 75 Resp: 65172

Ion Ratio Lower Upper

75 100

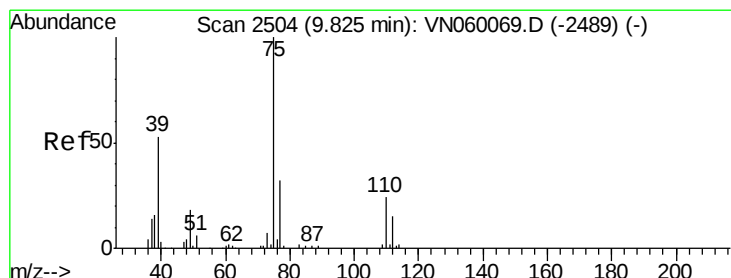
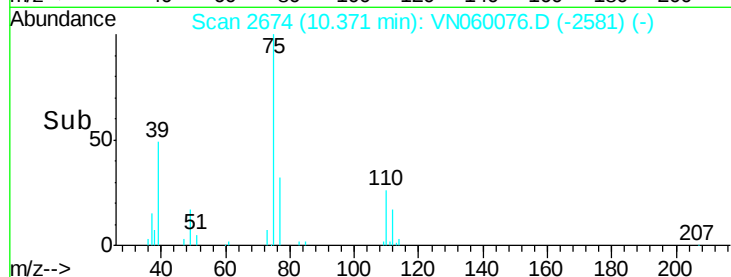
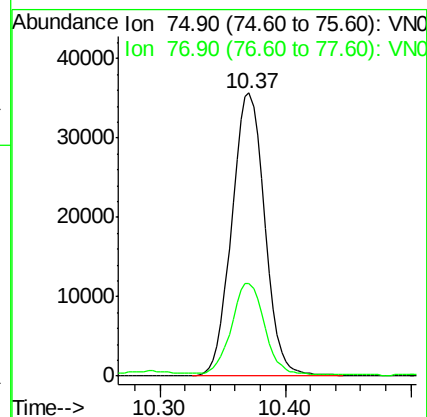
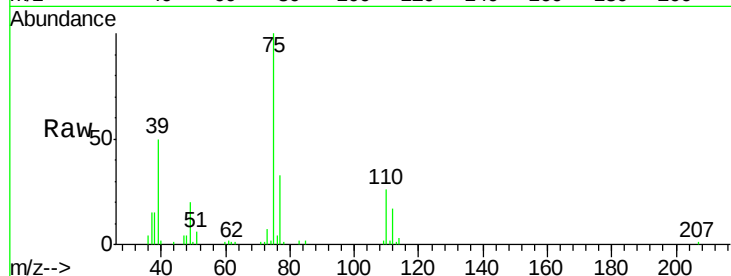
77 31.9 25.4 38.0

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#54

cis-1,3-Dichloropropene

Concen: 19.279 ug/l

RT: 9.82 min Scan# 2504

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

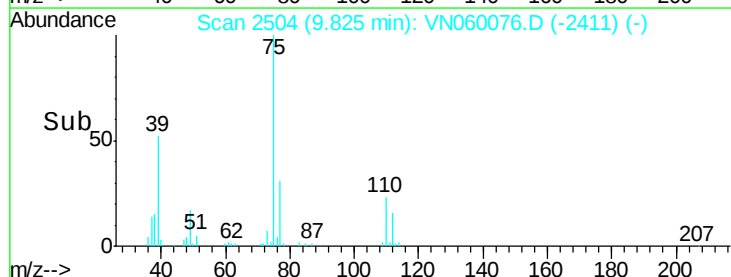
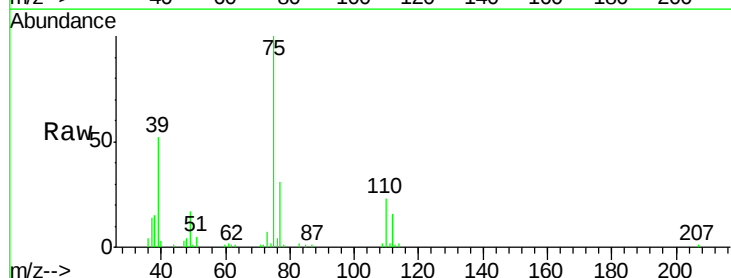
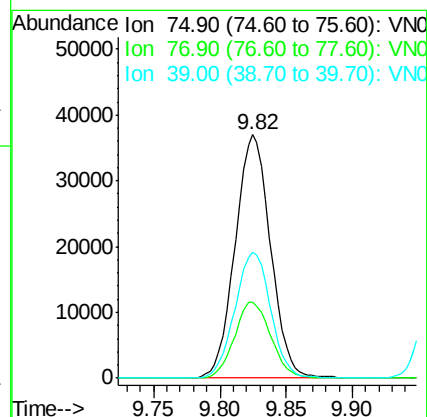
Tgt Ion: 75 Resp: 68671

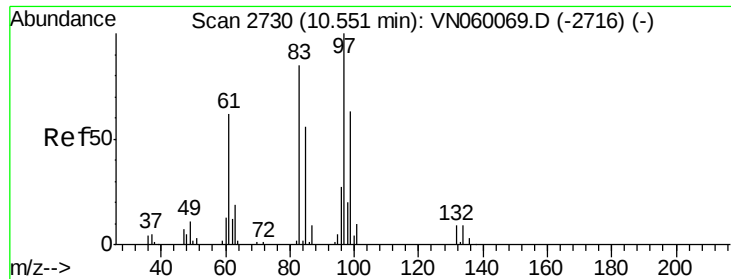
Ion Ratio Lower Upper

75 100

77 31.4 25.6 38.4

39 51.6 42.2 63.4





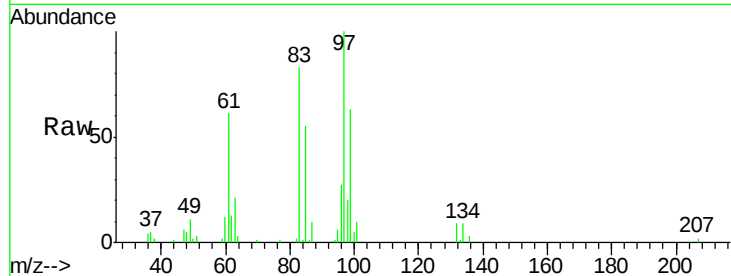
#55
 1,1,2-Trichloroethane
 Concen: 19.566 ug/l
 RT: 10.55 min Scan# 2730
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

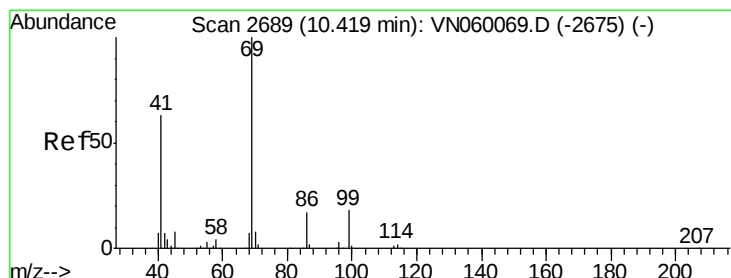
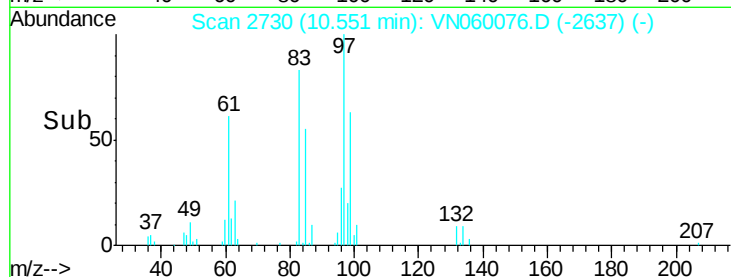
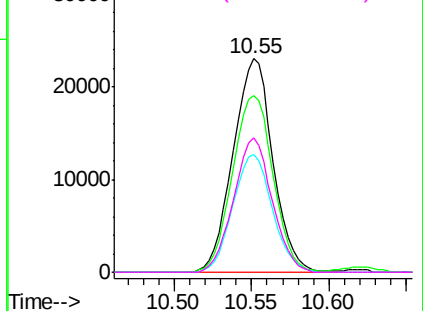
Tot Ion:	97	Resp:	41239
Ion	Ratio	Lower	Upper
97	100		
83	83.0	67.9	101.9
85	55.2	44.6	67.0
99	63.1	50.1	75.1

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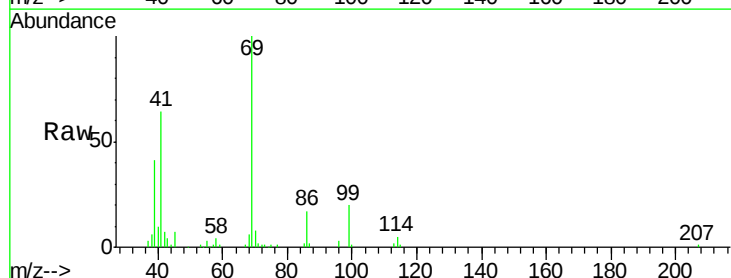


Abundance Ion 96.90 (96.60 to 97.60): VN0
 Ion 82.90 (82.60 to 83.60): VN0
 Ion 84.90 (84.60 to 85.60): VN0
 Ion 98.90 (98.60 to 99.60): VN0

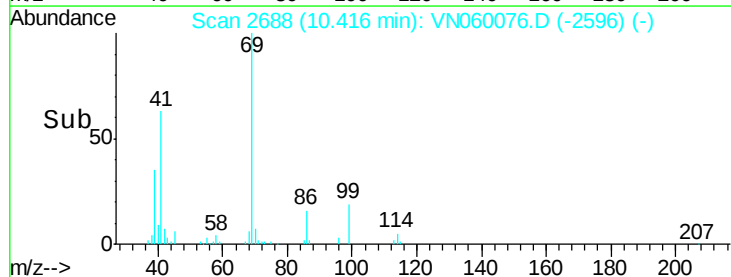
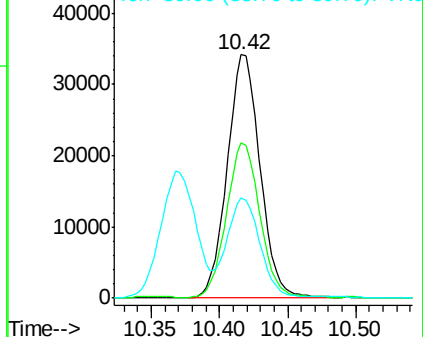


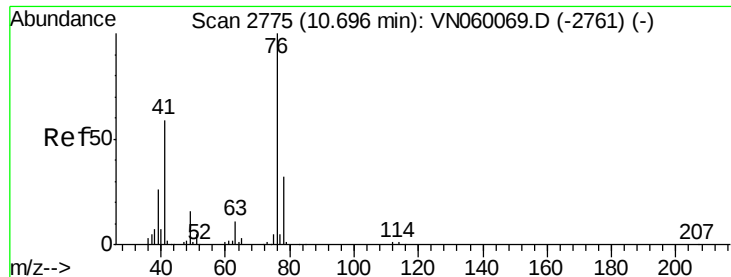
#56
 Ethyl methacrylate
 Concen: 19.212 ug/l
 RT: 10.42 min Scan# 2688
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion:	69	Resp:	57283
Ion	Ratio	Lower	Upper
69	100		
41	65.1	51.1	76.7
39	42.8	33.8	50.8



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





#57

1,3-Dichloropropane

Concen: 19.331 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 76 Resp: 67231

Ion Ratio Lower Upper

76 100

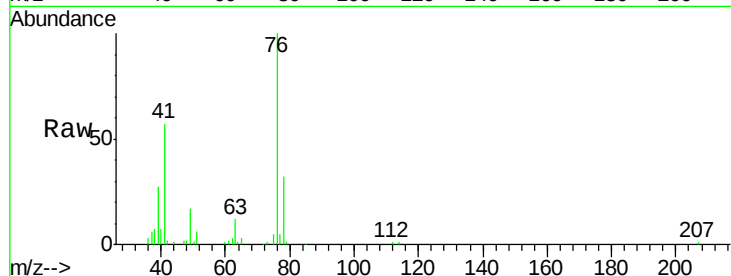
78 32.4 25.7 38.5

Manual Integrations

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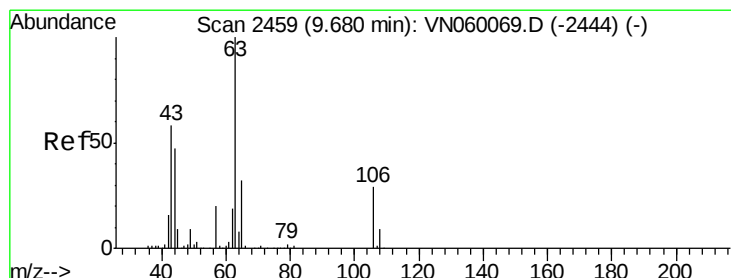
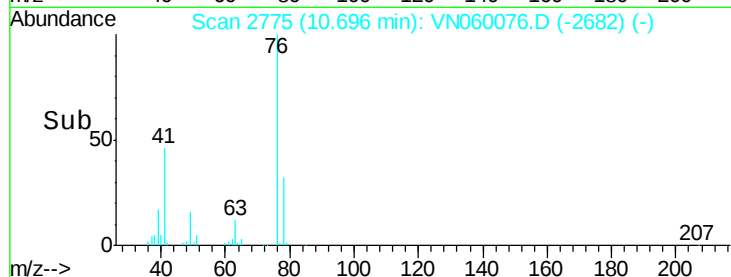
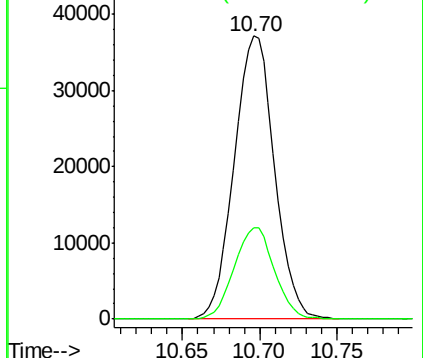
MMDadoda

2/13/2020 10:37:35 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 99.715 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. -0.00 min

Lab File: VN060076.D

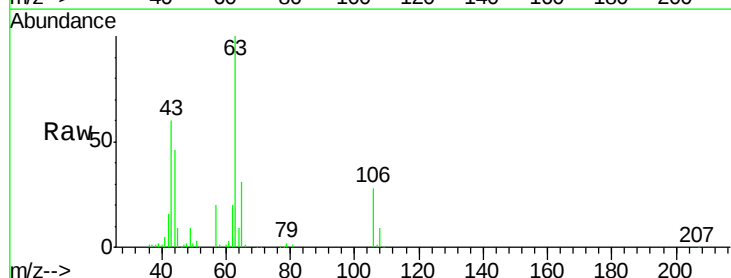
Acq: 12 Feb 2020 16:22

Tgt Ion: 63 Resp: 138510

Ion Ratio Lower Upper

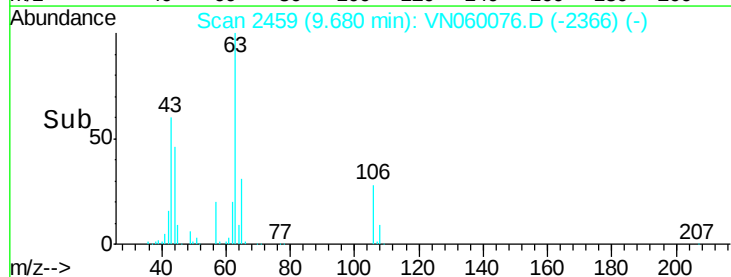
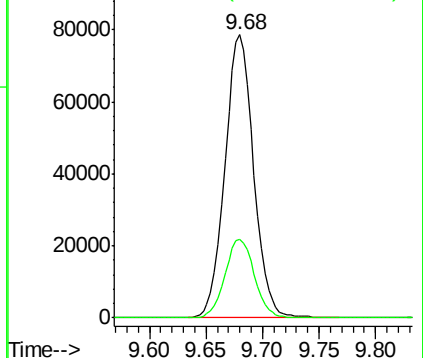
63 100

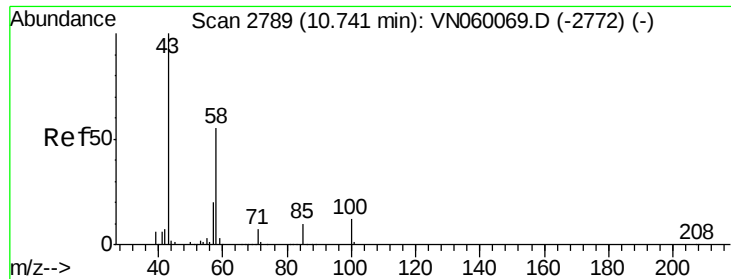
106 28.8 22.9 34.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





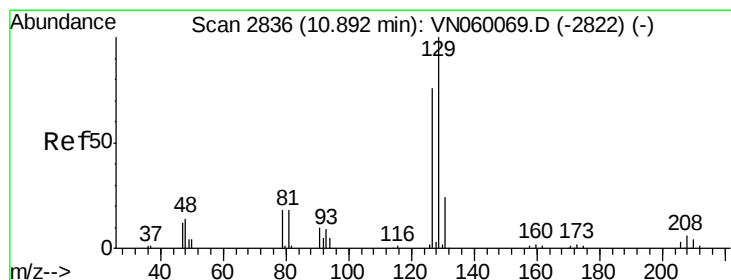
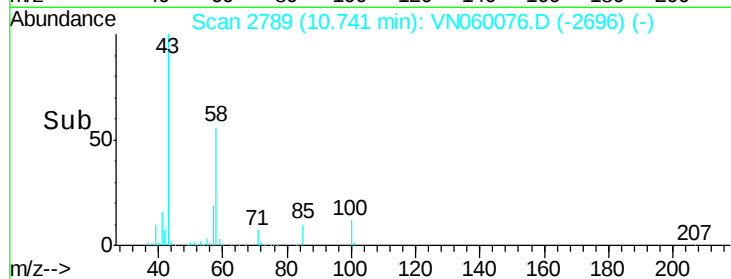
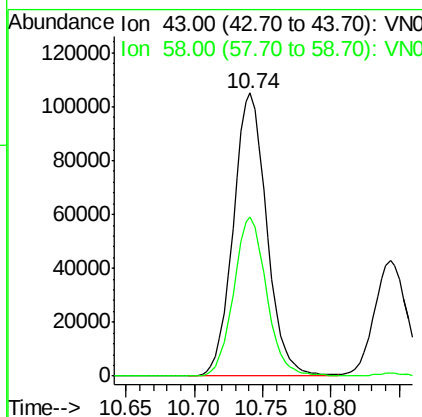
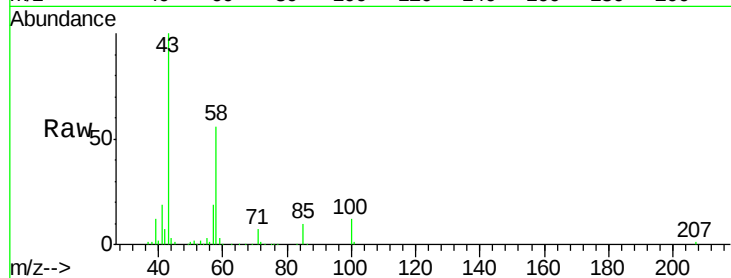
#59
2-Hexanone
Concen: 91.302 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	43	Resp	179126
Ion Ratio	43	100	
Lower	58	55.2	27.5
Upper			82.4

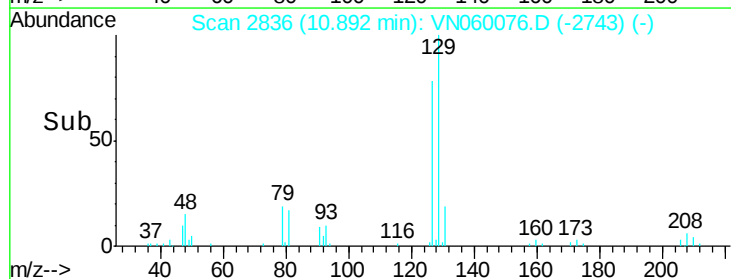
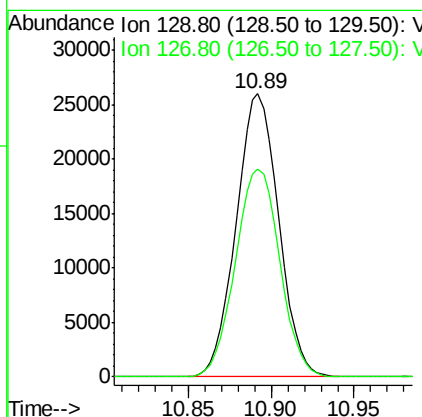
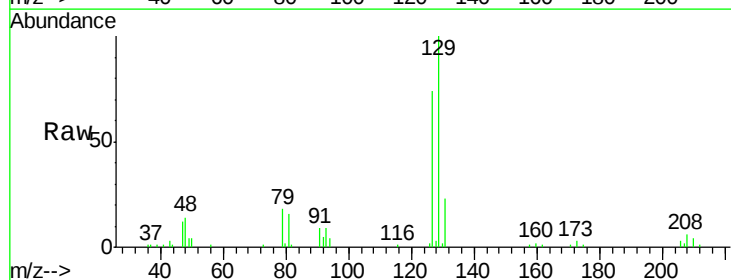
Manual Integrations
APPROVED

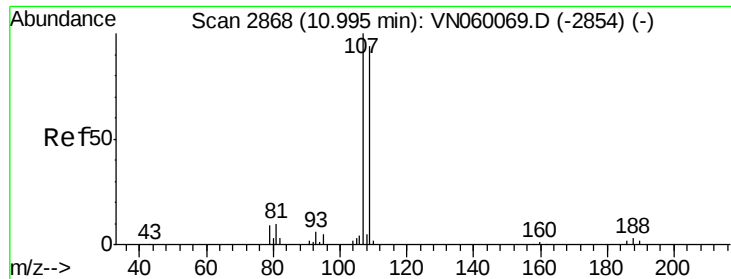
MMDadoda
2/13/2020 10:37:35 AM



#60
Dibromochloromethane
Concen: 19.181 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	129	Resp	46393
Ion Ratio	129	100	
Lower	127	76.7	38.0
Upper			114.1





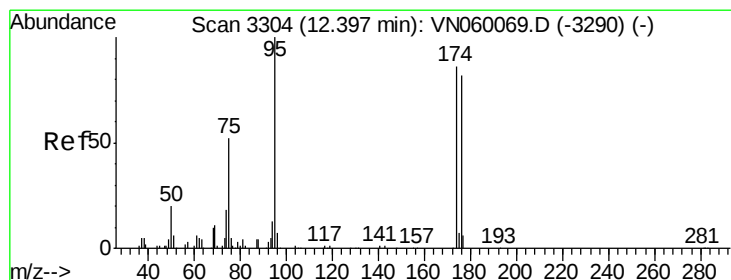
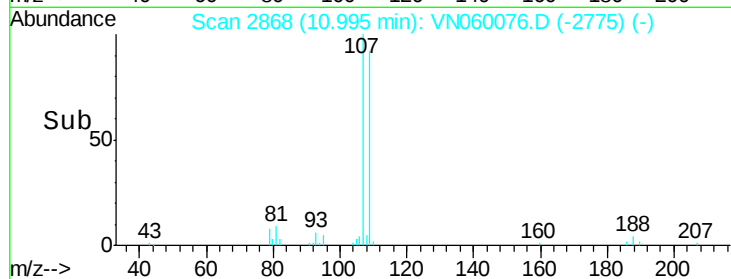
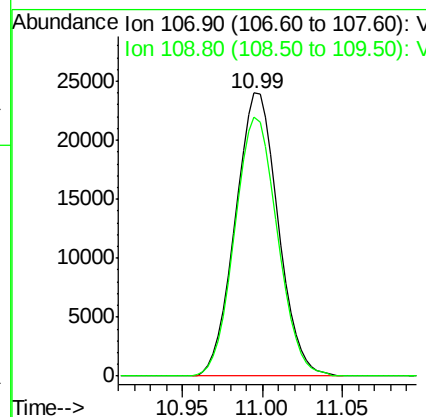
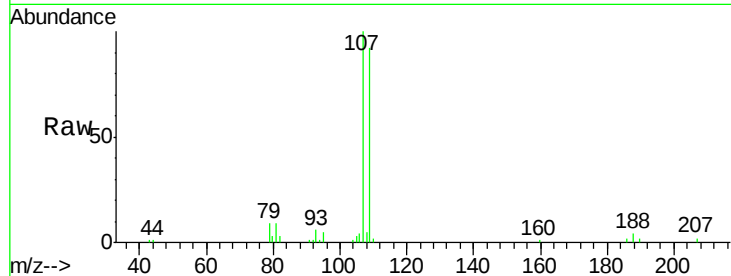
#61
 1,2-Dibromoethane
 Concen: 19.827 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	91.5	75.4	113.0

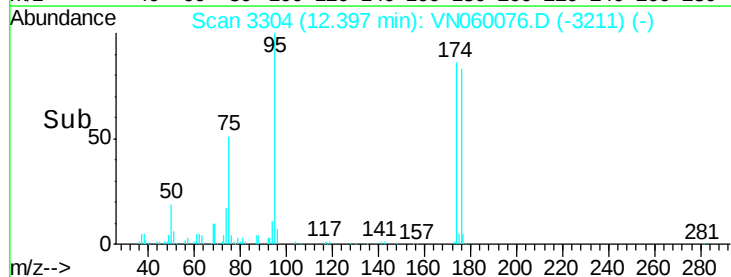
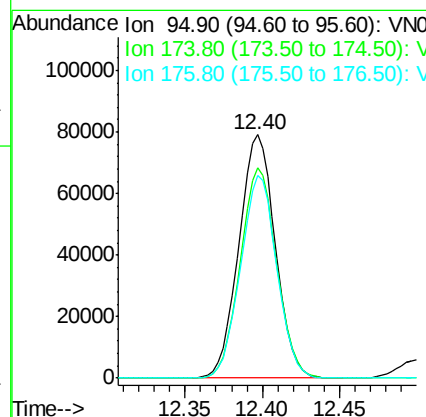
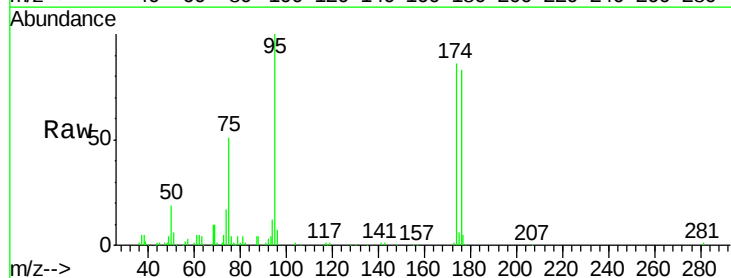
Manual Integrations
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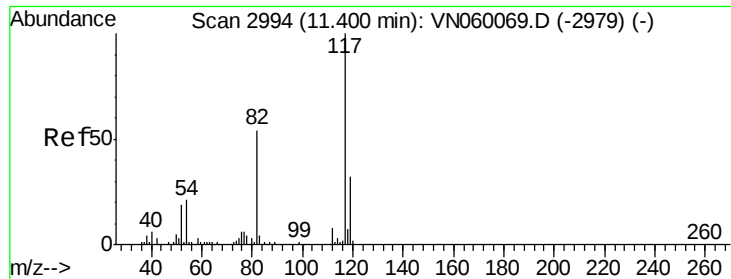
MMDadoda
 2/13/2020 10:37:35 AM



#62
 4-Bromofluorobenzene
 Concen: 47.339 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	169.8
176	82.9	0.0	164.8





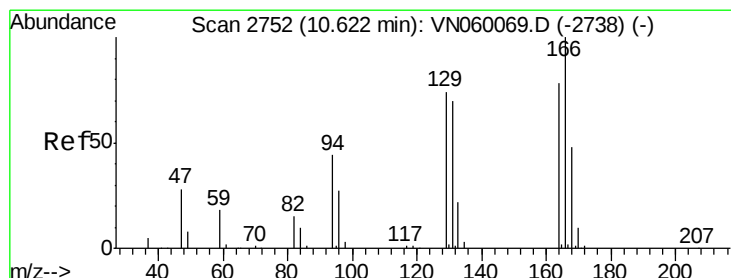
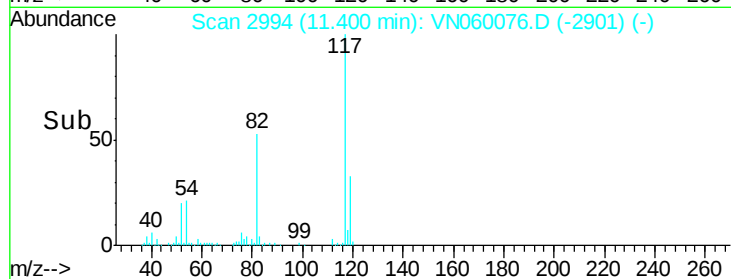
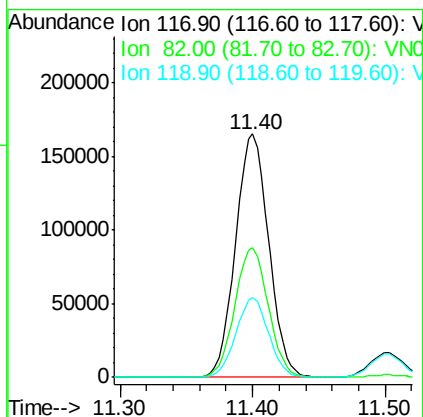
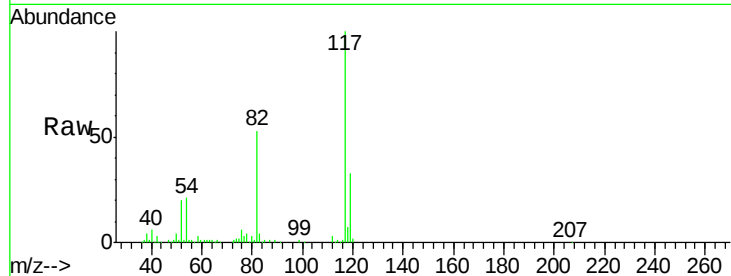
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.0	43.4	65.0
119	32.6	25.8	38.6

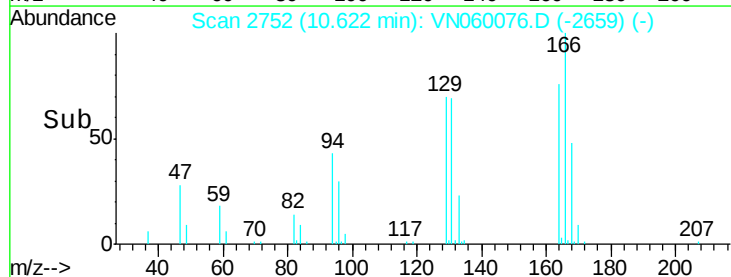
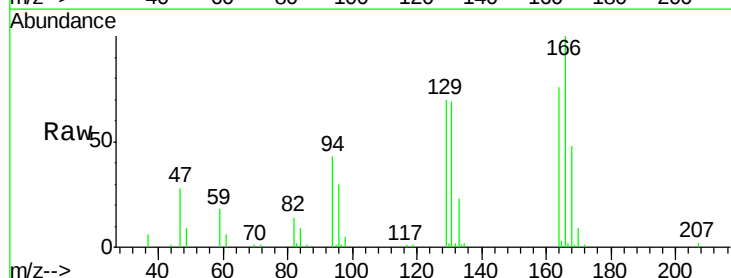
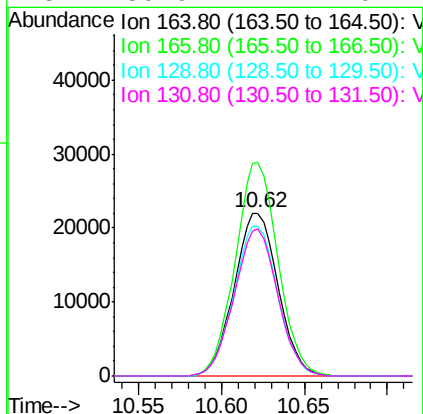
Manual Integrations
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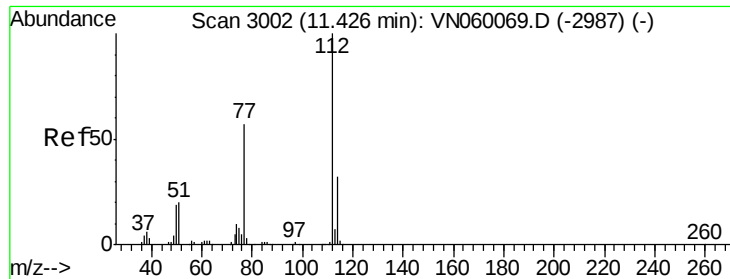
MMDadoda
2/13/2020 10:37:35 AM



#64
Tetrachloroethene
Concen: 18.480 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.9	101.9	152.9
129	91.5	75.4	113.0
131	89.9	71.4	107.2





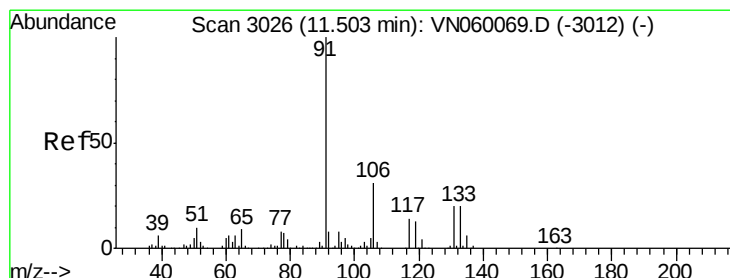
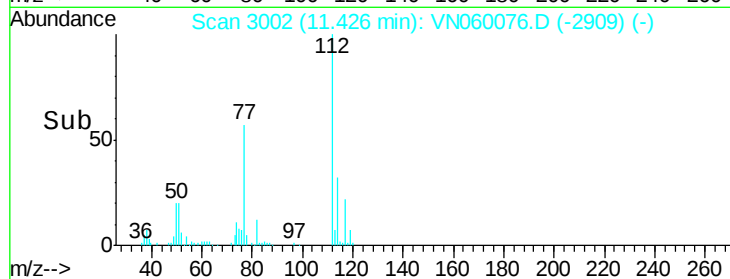
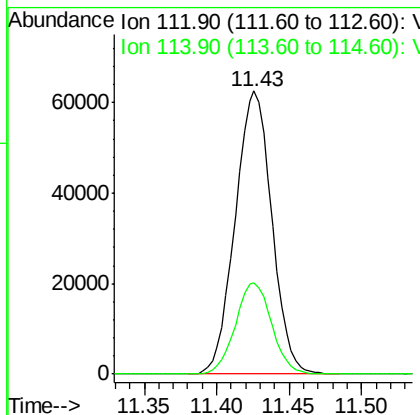
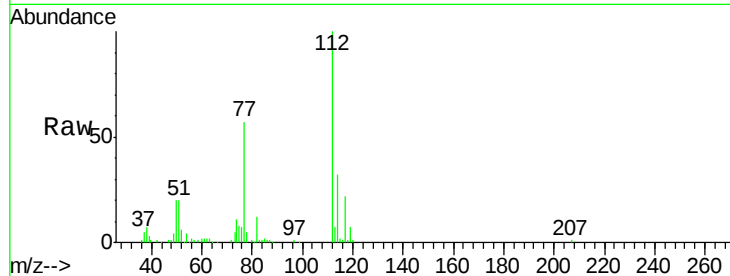
#65
Chlorobenzene
Concen: 18.749 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.4	38.0

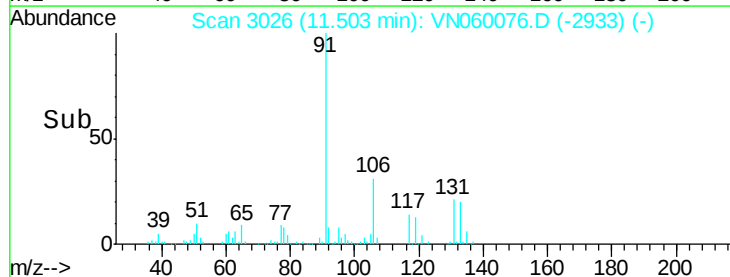
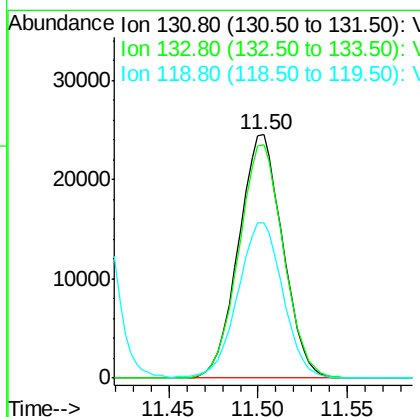
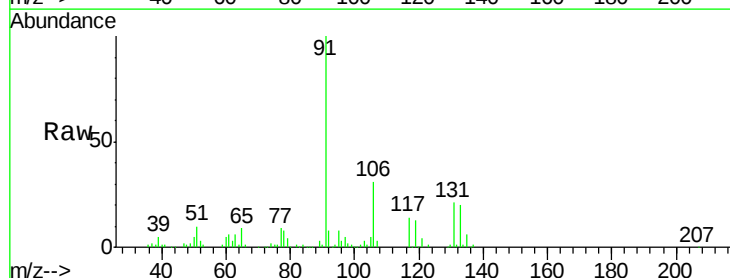
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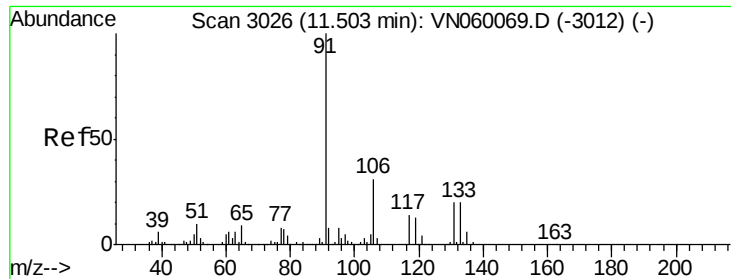
MMDadoda
2/13/2020 10:37:35 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.181 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.4	47.9	143.7
119	65.3	32.6	97.7





#67

Ethyl Benzene

Concen: 18.826 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampled :

VN0212MBS01

Tot Ion: 91 Resp: 198752

Ion Ratio Lower Upper

91 100

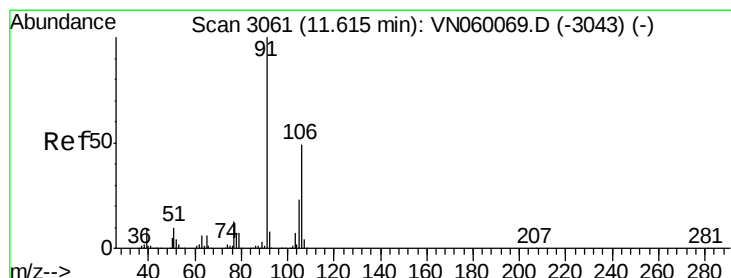
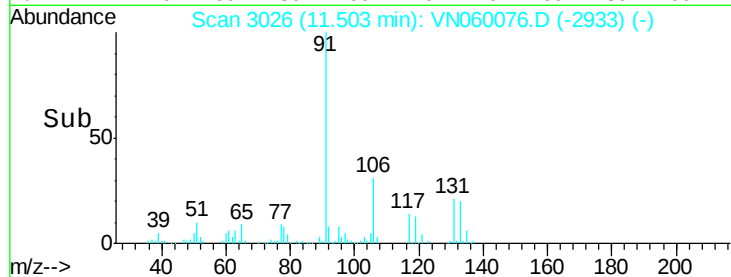
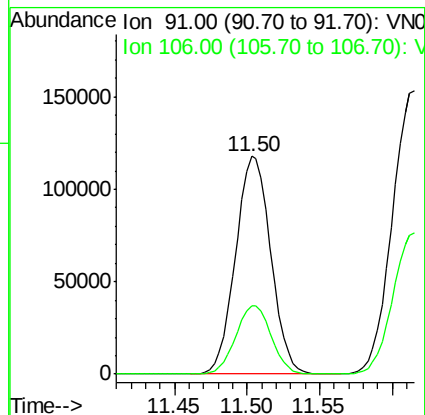
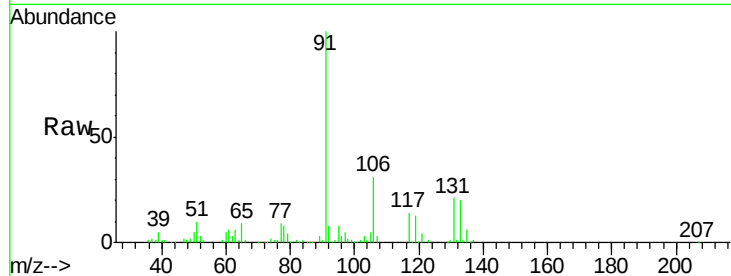
106 31.2 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

2/13/2020 10:37:35 AM



#68

m/p-Xylenes

Concen: 37.314 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN060076.D

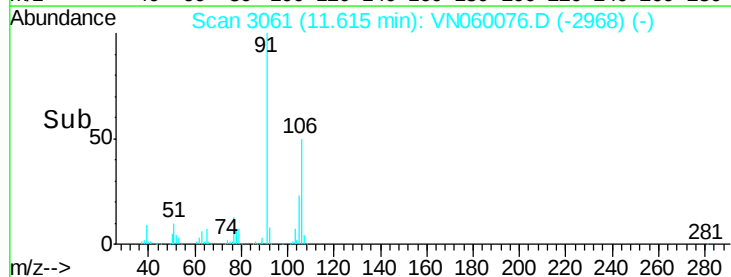
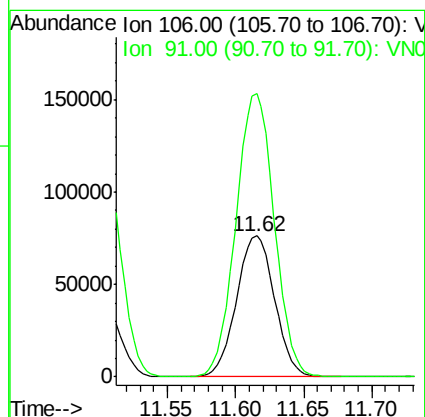
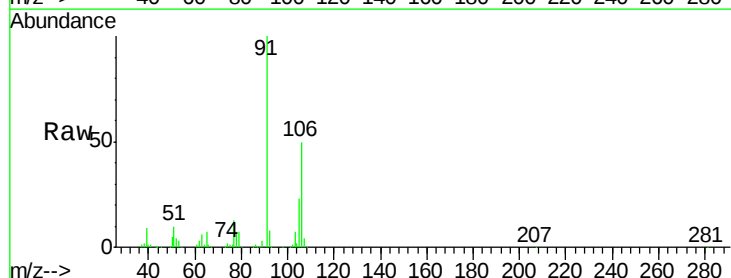
Acq: 12 Feb 2020 16:22

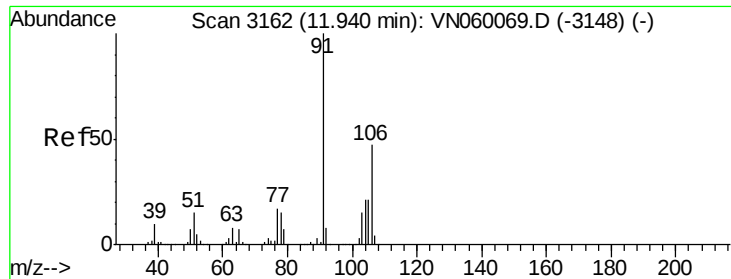
Tgt Ion: 106 Resp: 147850

Ion Ratio Lower Upper

106 100

91 201.9 162.7 244.1





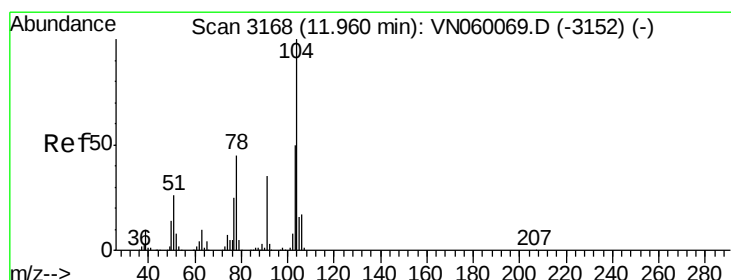
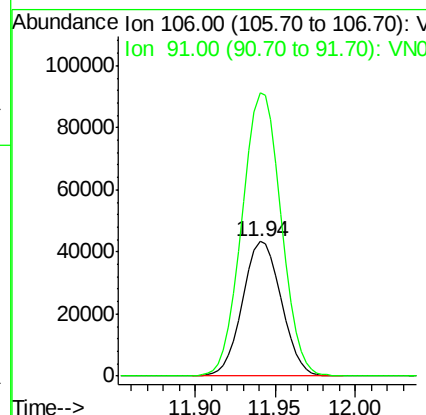
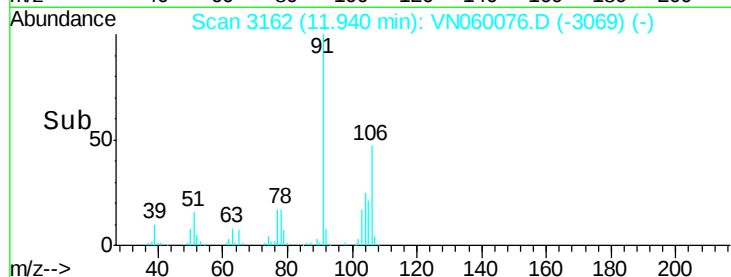
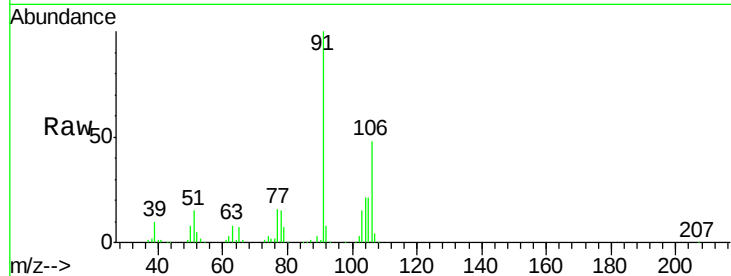
#69
o-Xylene
Concen: 18.843 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion:106 Resp: 71886
Ion Ratio Lower Upper
106 100
91 211.8 107.2 321.6

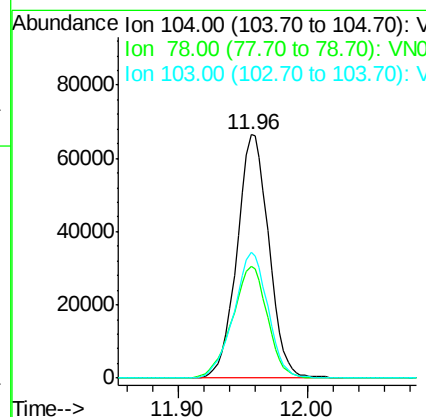
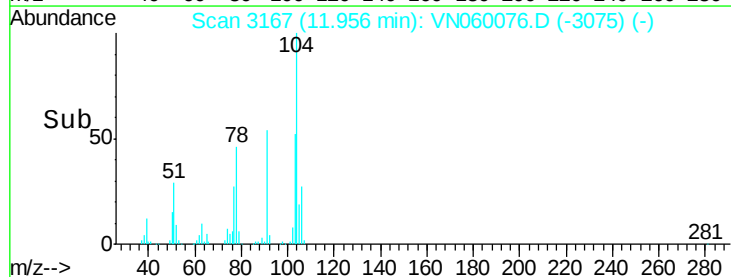
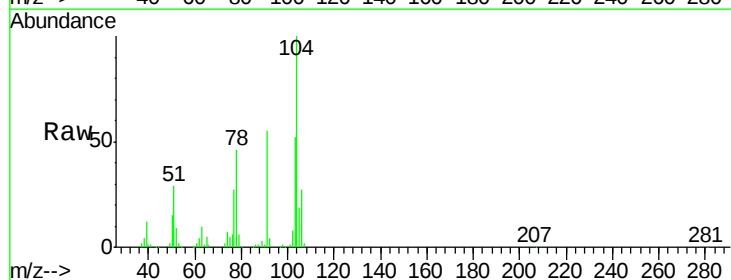
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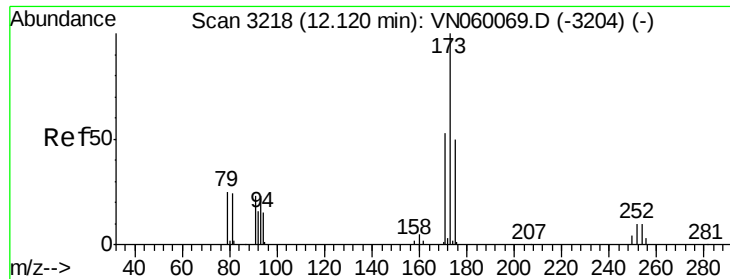
MMDadoda
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#70
Styrene
Concen: 18.564 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion:104 Resp: 114210
Ion Ratio Lower Upper
104 100
78 50.4 40.2 60.2
103 55.4 44.3 66.5





#71

Bromoform

Concen: 18.701 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion:173 Resp: 33308

Ion Ratio Lower Upper

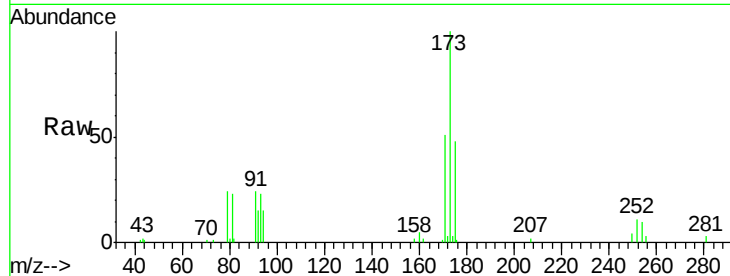
173 100

175 48.1 24.9 74.6

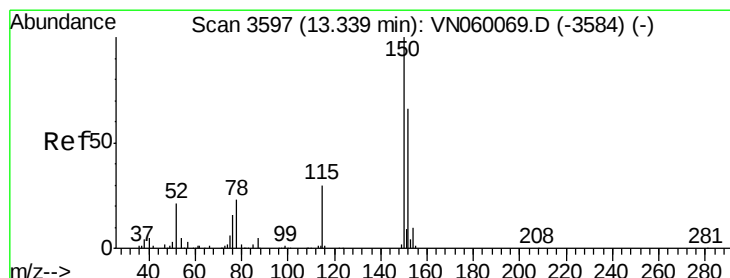
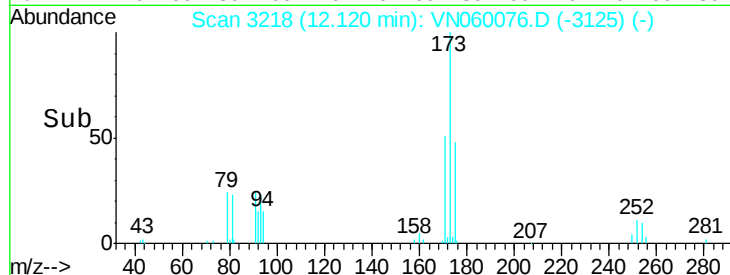
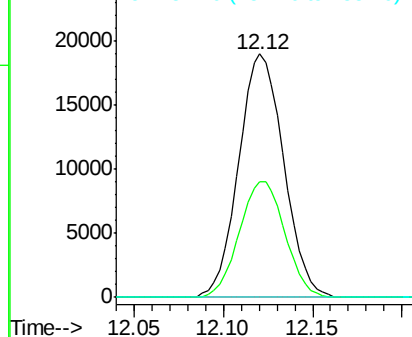
254 0.0 0.0 0.0

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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# 3597

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

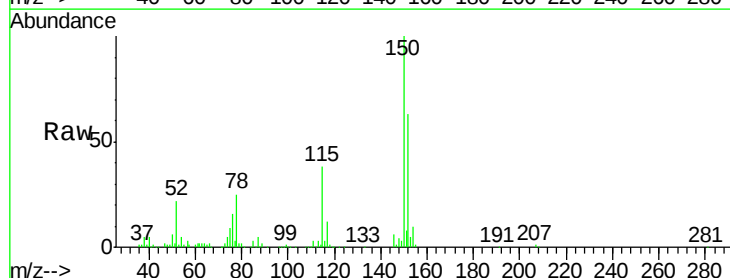
Tgt Ion:152 Resp: 135534

Ion Ratio Lower Upper

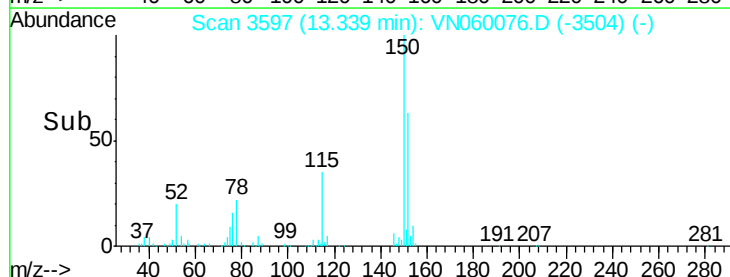
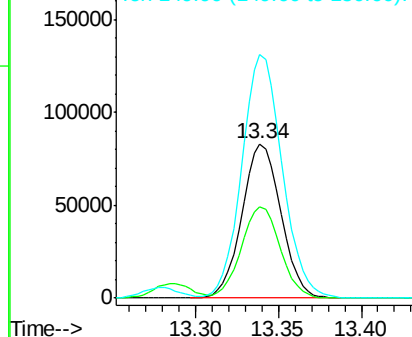
152 100

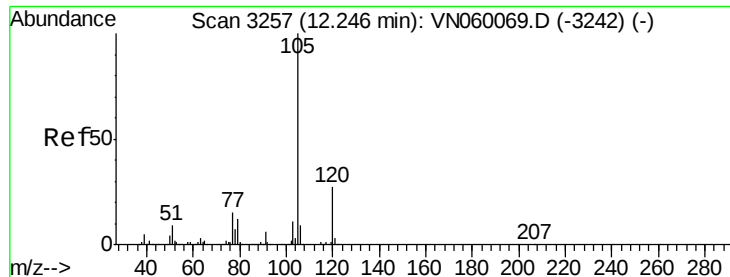
115 59.1 28.9 86.8

150 164.2 0.0 342.4



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





#73

Isopropylbenzene

Concen: 19.001 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampled :

VN0212MBS01

Tot Ion: 105 Resp: 192304

Ion Ratio Lower Upper

105 100

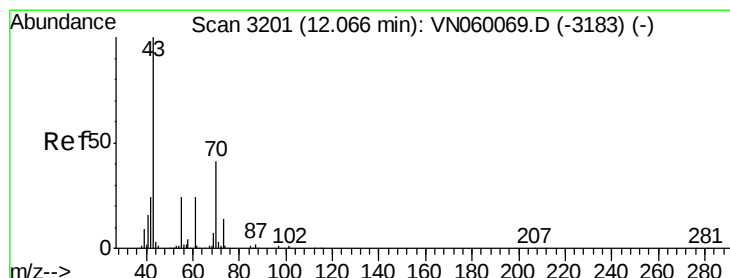
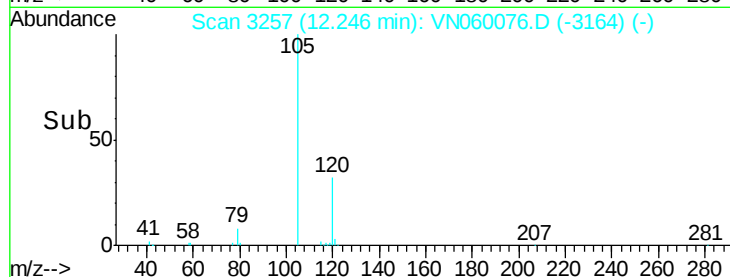
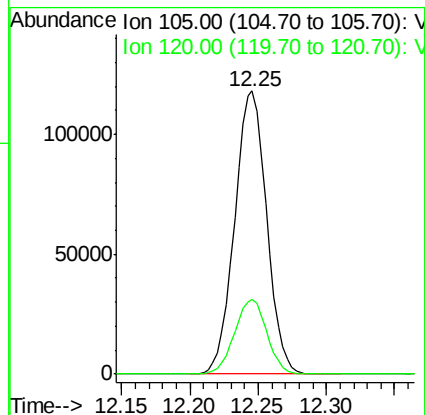
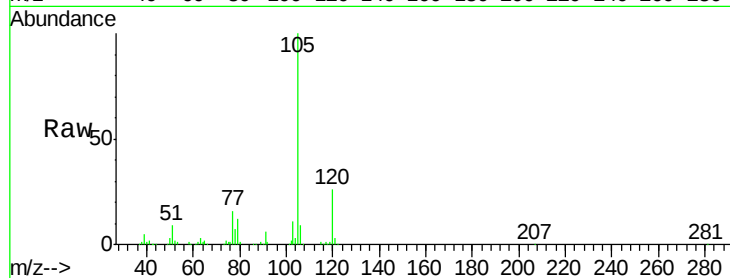
120 26.5 13.3 39.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 19.317 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion: 43 Resp: 70500

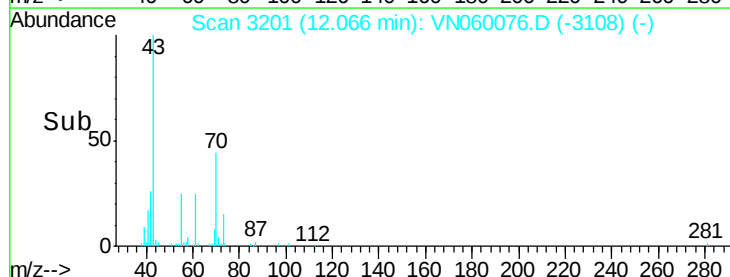
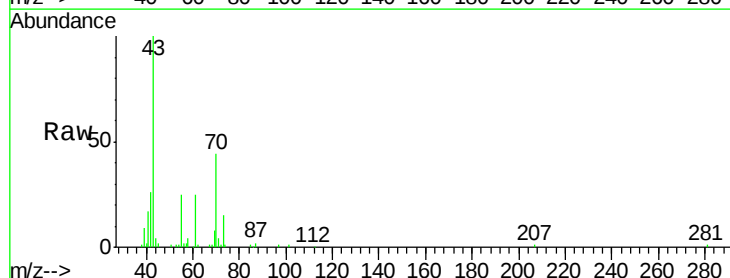
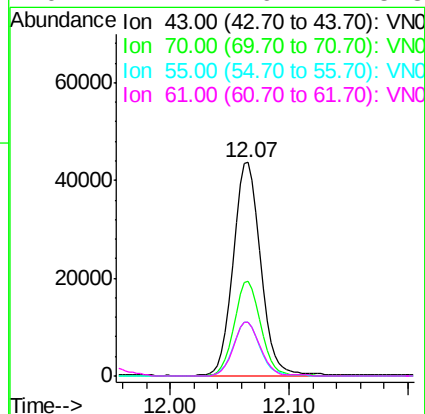
Ion Ratio Lower Upper

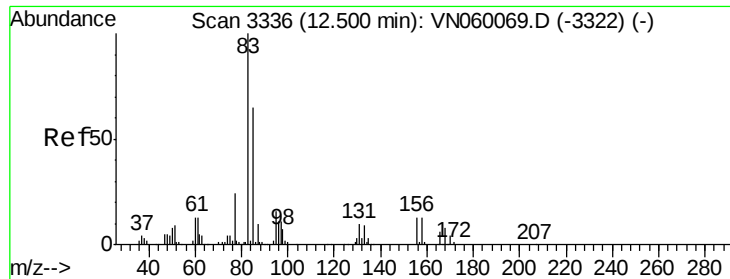
43 100

70 42.7 33.4 50.0

55 24.5 18.8 28.2

61 24.7 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 19.941 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

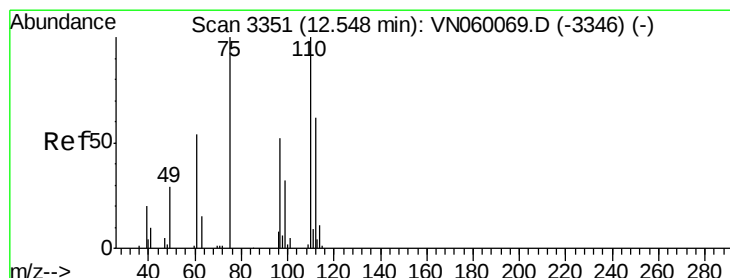
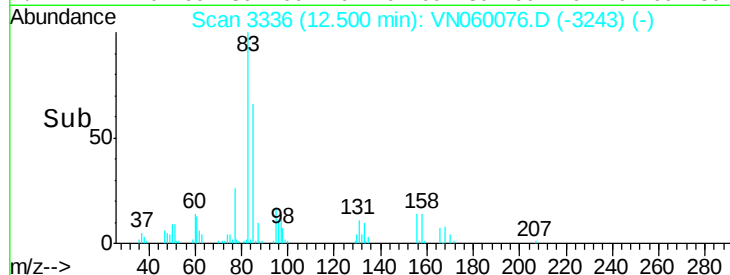
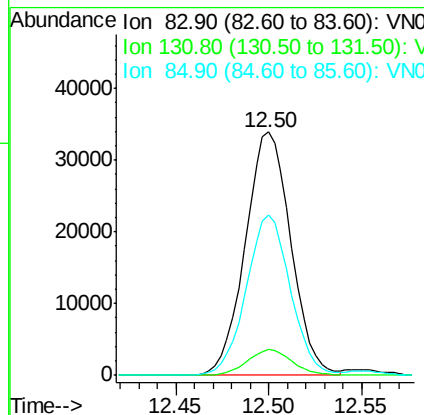
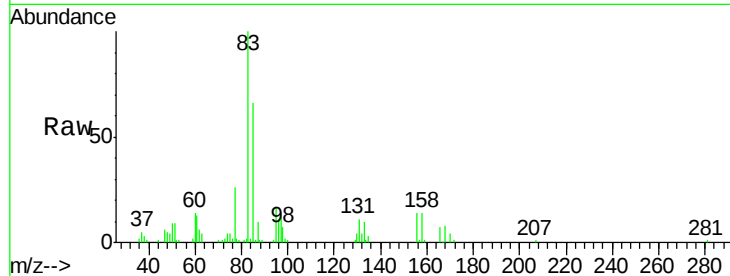
ClientSampleId :

VN0212MBS01

Tot Ion:	83	Resp:	58090
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.2	15.6
85	63.8	32.3	96.9

Manual Integrations
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MMDadoda
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#76

1,2,3-Trichloropropane

Concen: 18.273 ug/l m

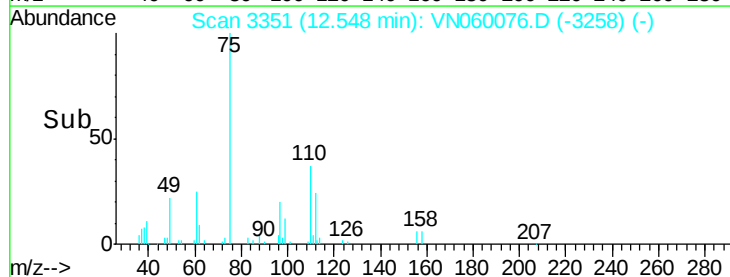
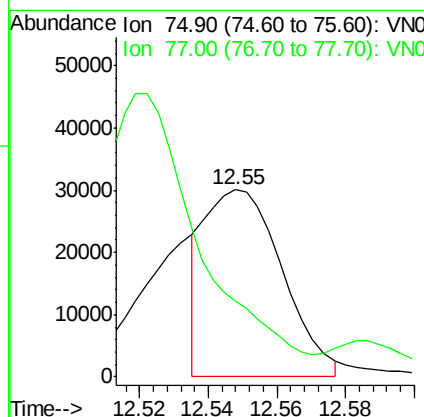
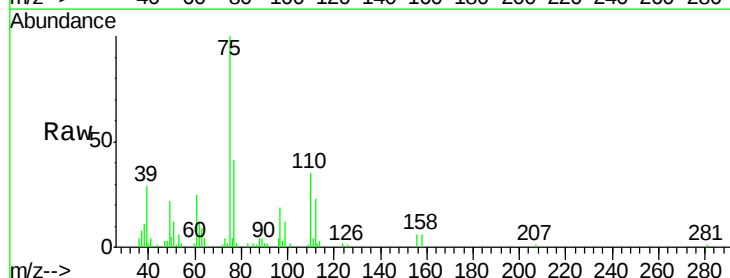
RT: 12.55 min Scan# 3351

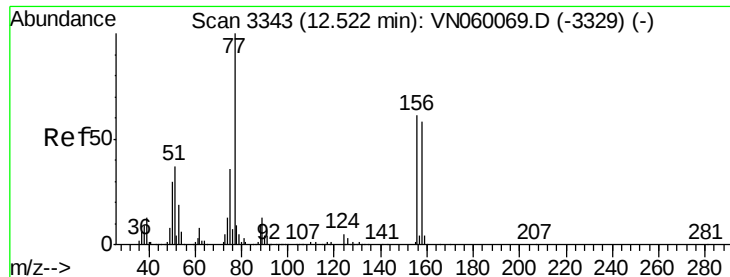
Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion:	75	Resp:	47382
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.497 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

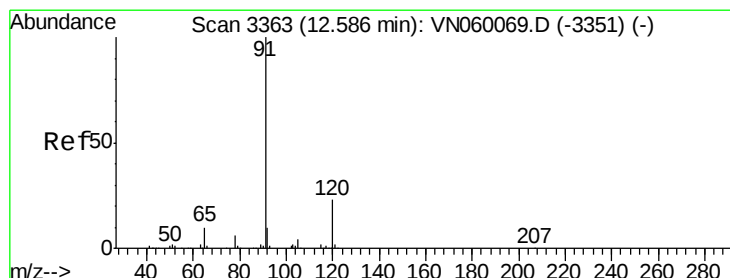
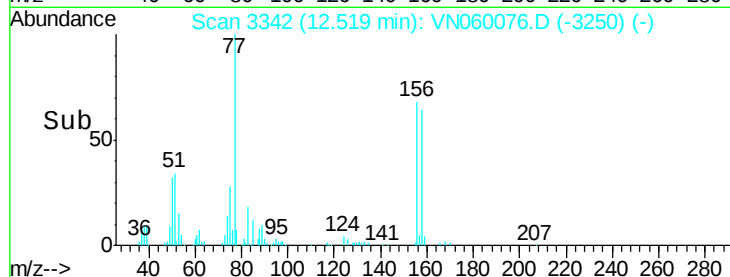
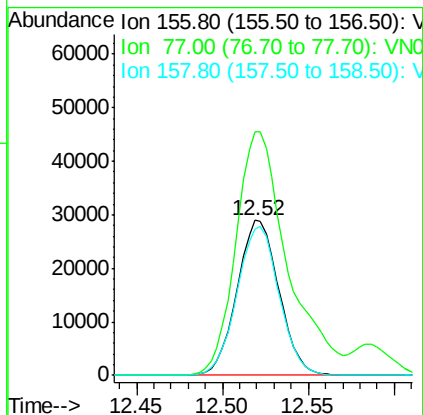
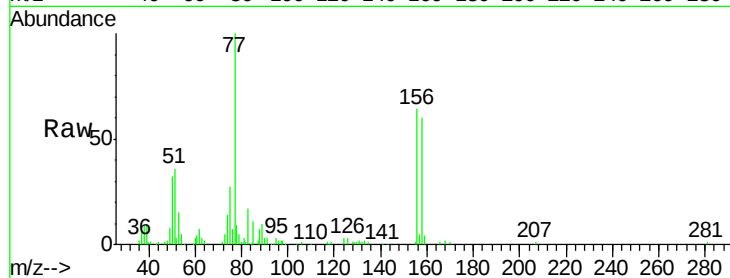
ClientSampleId :

VN0212MBS01

Tot Ion:	156	Resp:	48972
Ion	Ratio	Lower	Upper
156	100		
77	194.7	98.7	296.1
158	96.6	48.1	144.4

Manual Integrations
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#78

n-propylbenzene

Concen: 18.820 ug/l

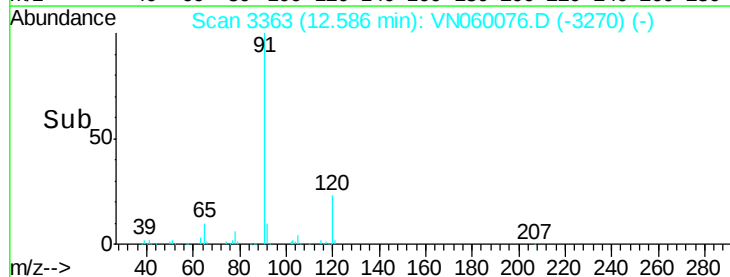
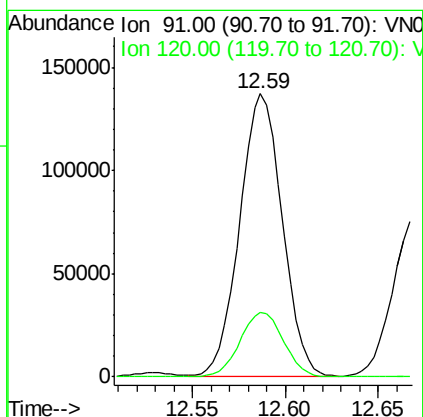
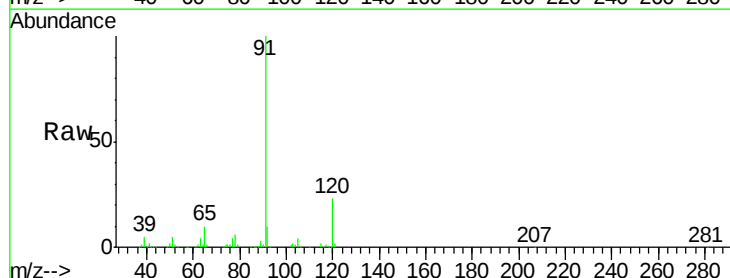
RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion:	91	Resp:	217021
Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.5	34.5





#79

2-Chlorotoluene

Concen: 18.937 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

VN0212MBS01

Tot Ion: 91 Resp: 128348

Ion Ratio Lower Upper

91 100

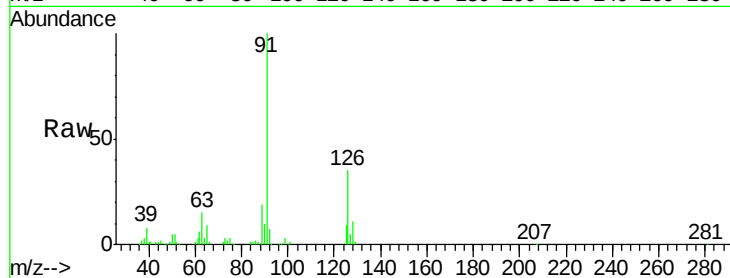
126 35.4 17.4 52.2

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN060069.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN060069.D (-3376) (-)

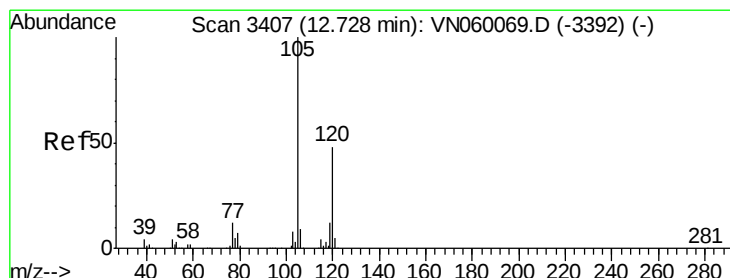
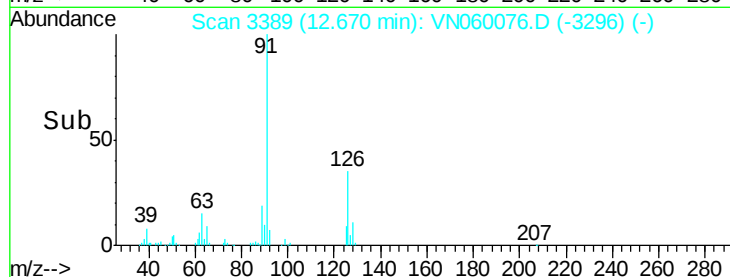
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 19.172 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060076.D

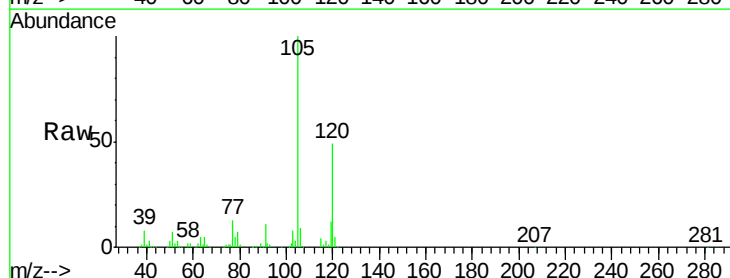
Acq: 12 Feb 2020 16:22

Tgt Ion: 105 Resp: 161331

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VN060069.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN060069.D (-3392) (-)

120000

100000

80000

60000

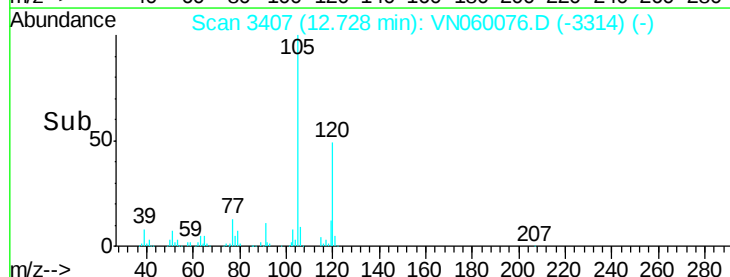
40000

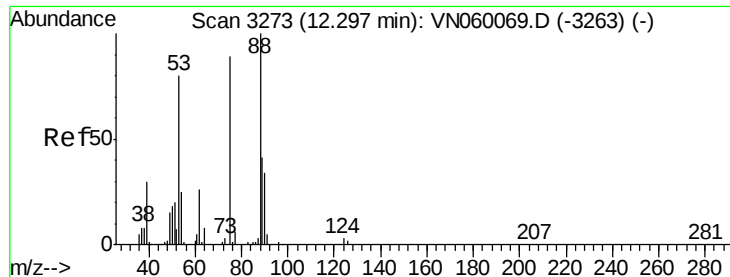
20000

0

12.65 12.70 12.75 12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.936 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

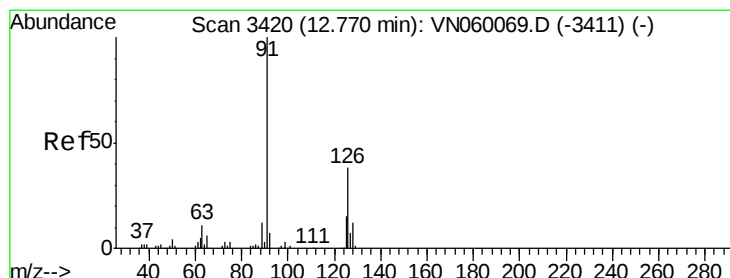
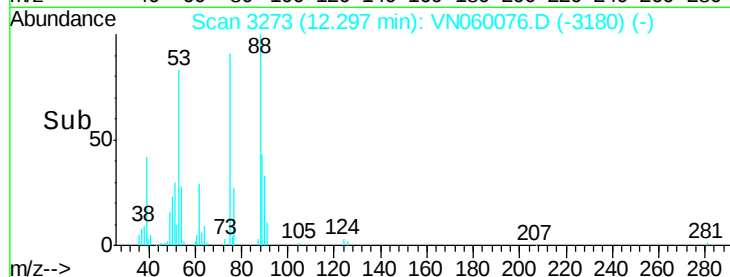
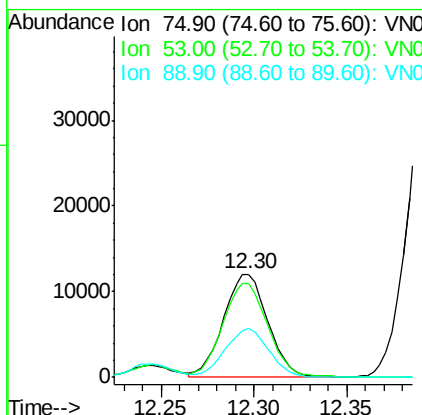
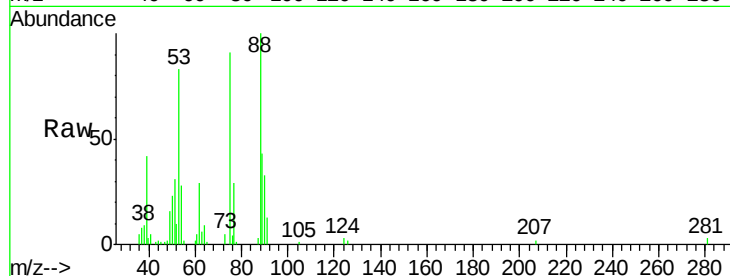
ClientSampleId :

VN0212MBS01

Tot Ion:	75	Resp:	20054
Ion	Ratio	Lower	Upper
75	100		
53	92.8	73.9	110.9
89	46.1	37.0	55.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.161 ug/l

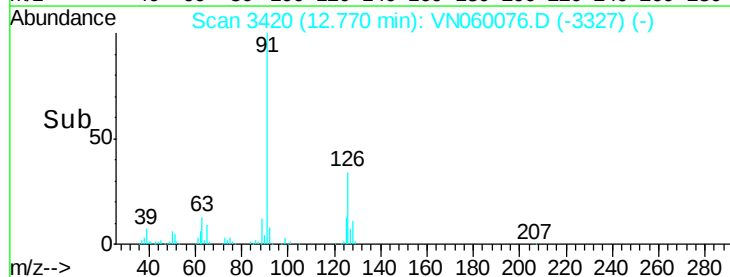
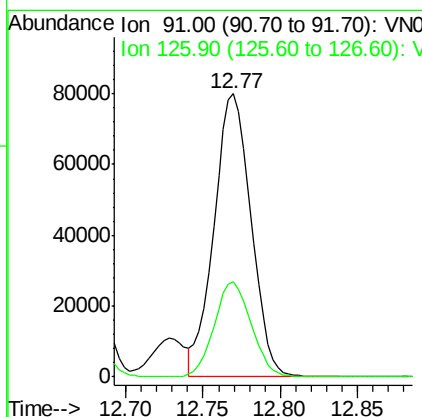
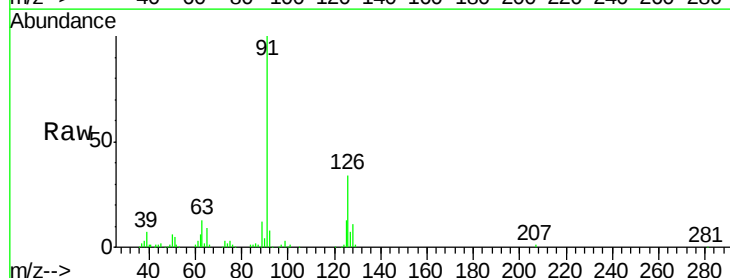
RT: 12.77 min Scan# 3420

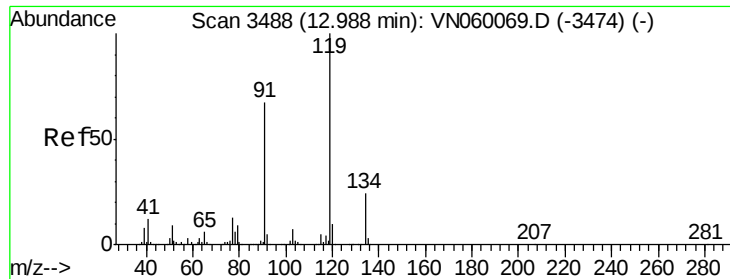
Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion:	91	Resp:	133241
Ion	Ratio	Lower	Upper
91	100		
126	33.5	17.1	51.3





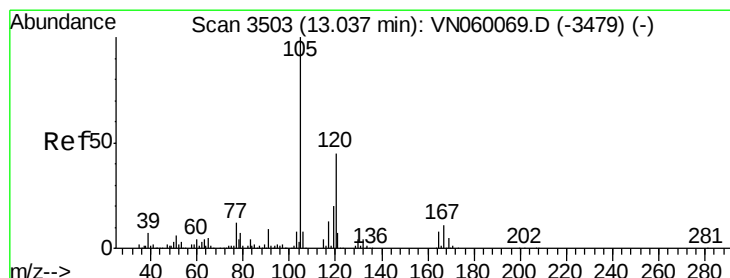
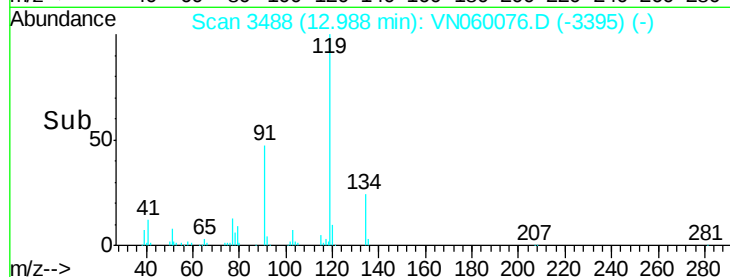
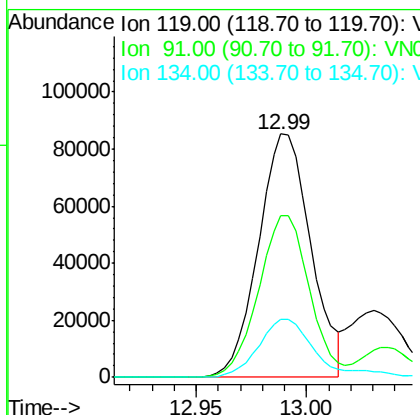
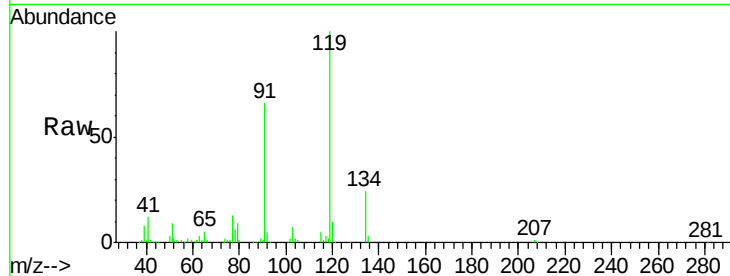
#83
tert-Butylbenzene
Concen: 18.850 ug/l
RT: 12.99 min Scan# 3488
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.4	32.7	98.1
134	26.2	12.9	38.7

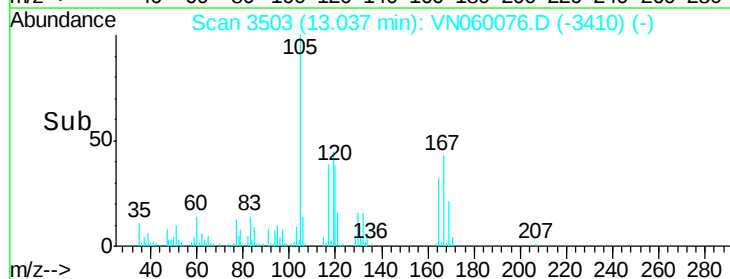
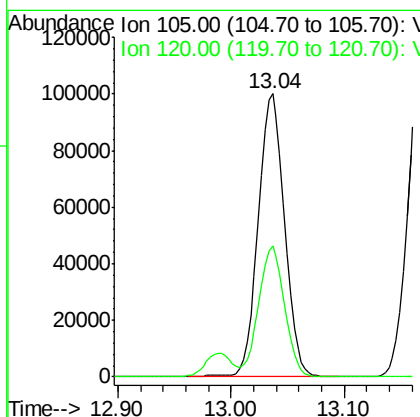
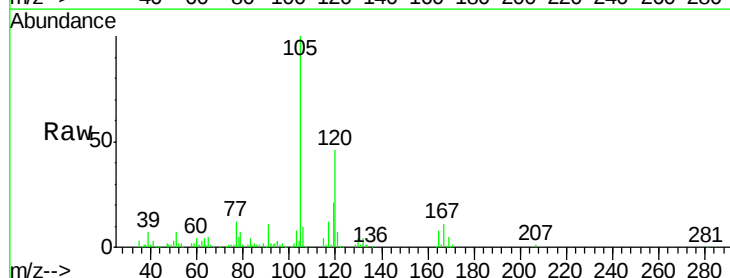
Manual Integrations
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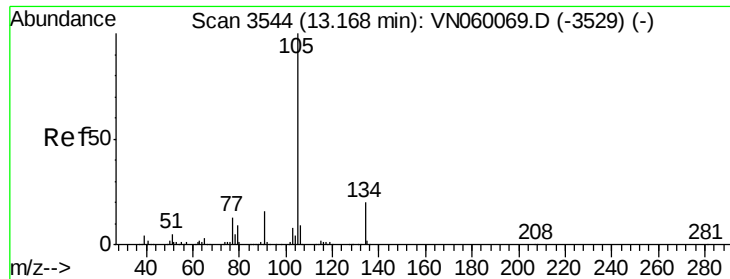
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.489 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.4	67.3





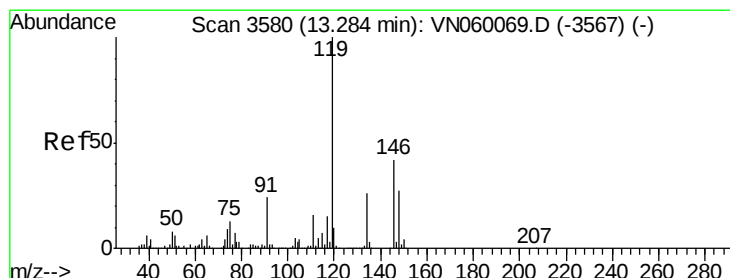
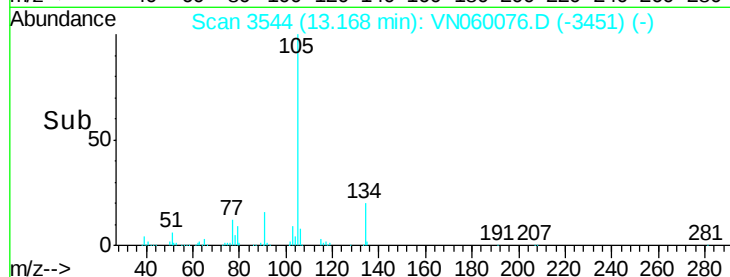
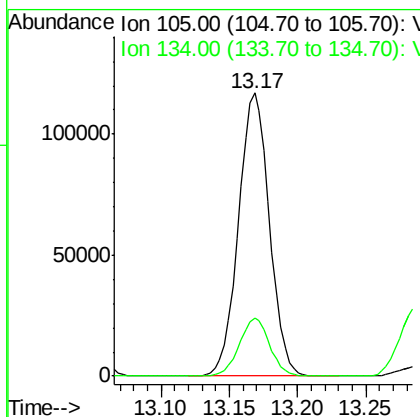
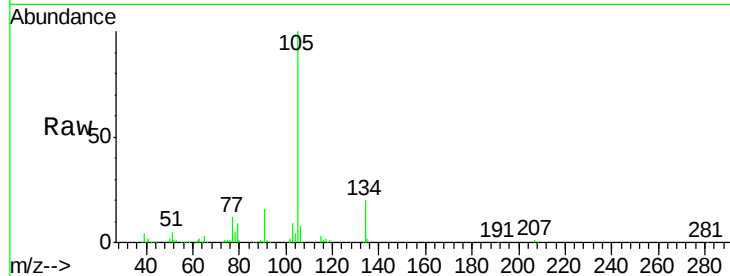
#85
 sec-Butylbenzene
 Concen: 18.630 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampled :
 VN0212MBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	183669		
134	19.9	9.9	29.7	

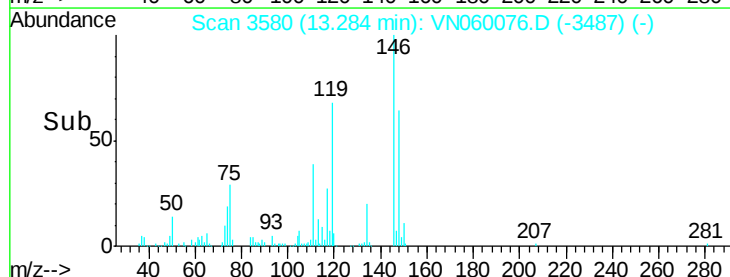
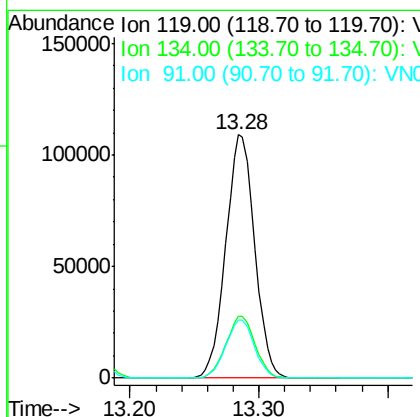
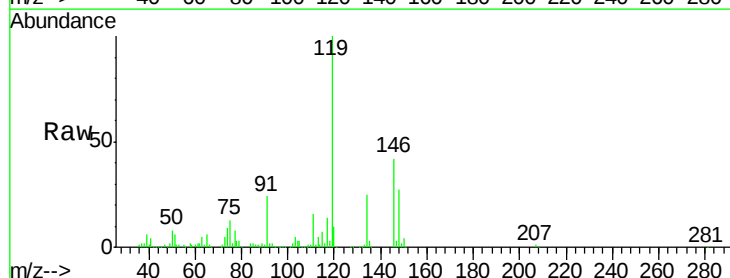
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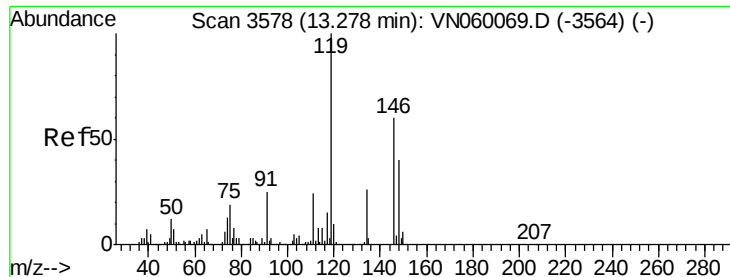
MMDadoda
 2/13/2020 10:37:35 AM



#86
 p-Isopropyltoluene
 Concen: 18.947 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	169244		
134	25.8	13.3	39.8	
91	23.8	11.9	35.9	





#87

1,3-Dichlorobenzene

Concen: 19.289 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. -0.00 min

Lab File: VN060076.D

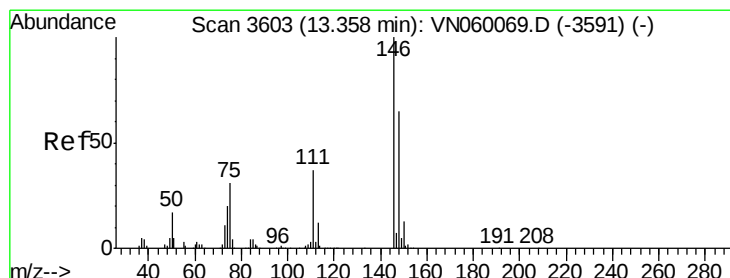
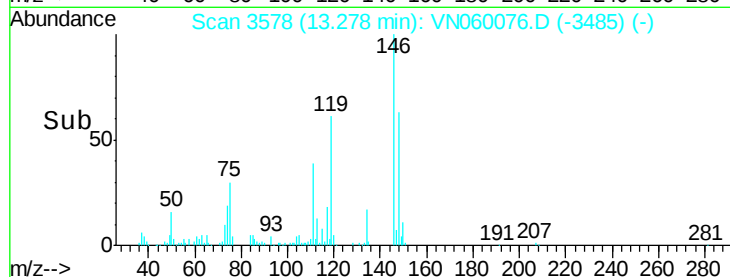
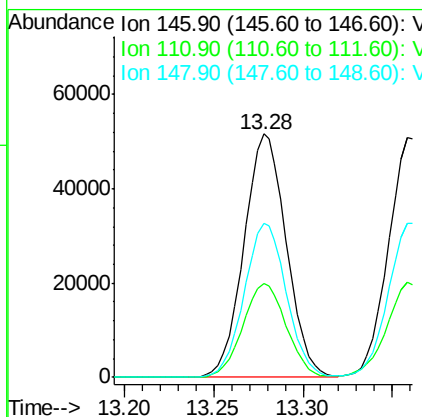
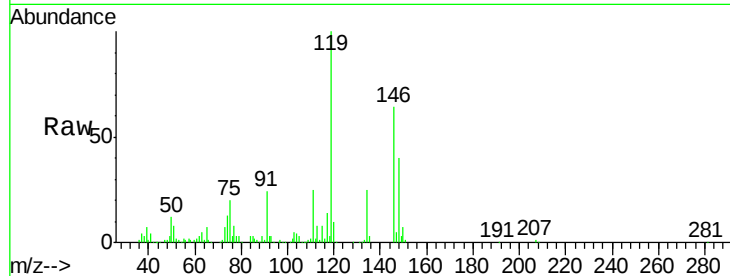
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.8	59.3
148	63.1	32.0	96.2

Manual Integrations
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2/13/2020 10:37:35 AM



#88

1,4-Dichlorobenzene

Concen: 19.059 ug/l

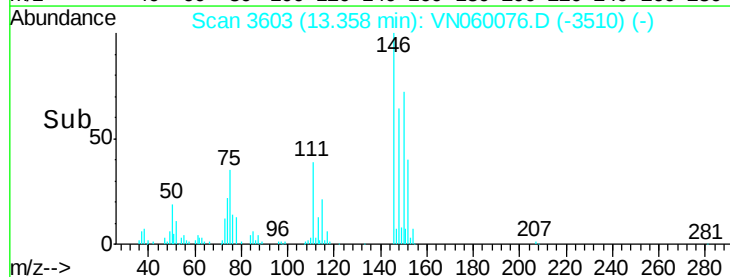
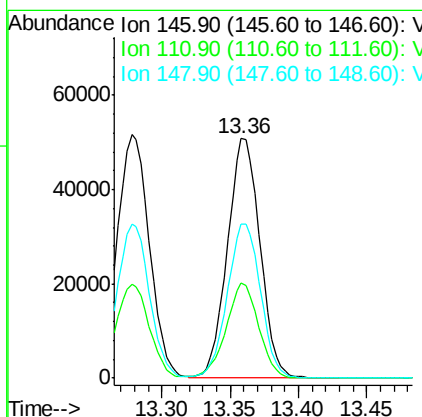
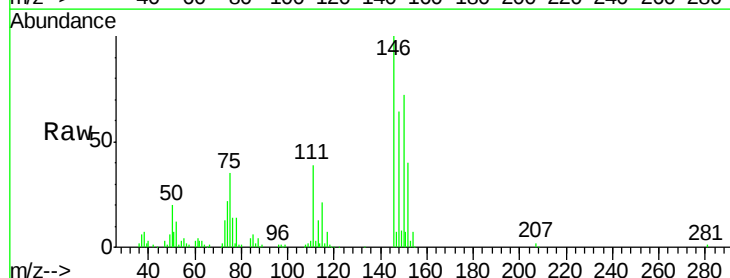
RT: 13.36 min Scan# 3603

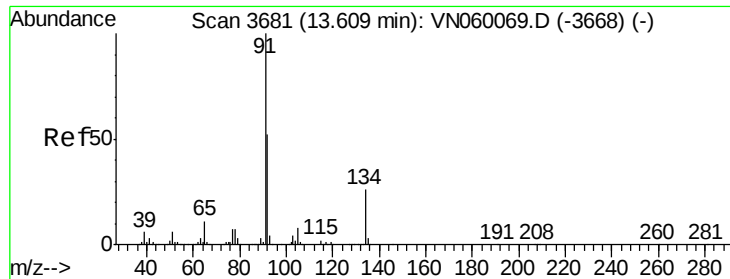
Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	18.9	56.5
148	65.2	32.0	96.0





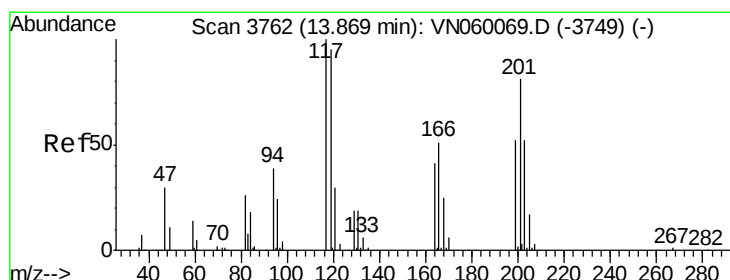
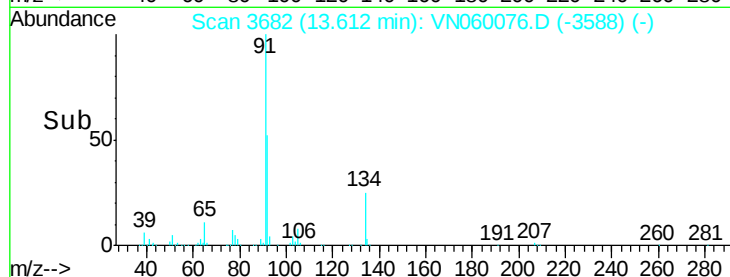
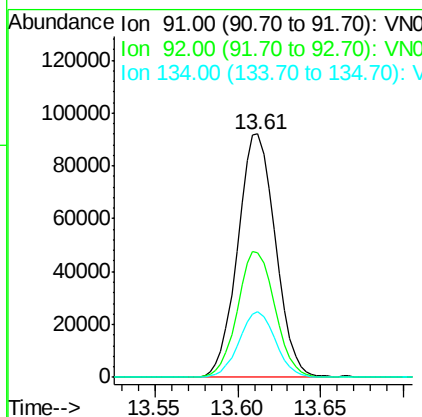
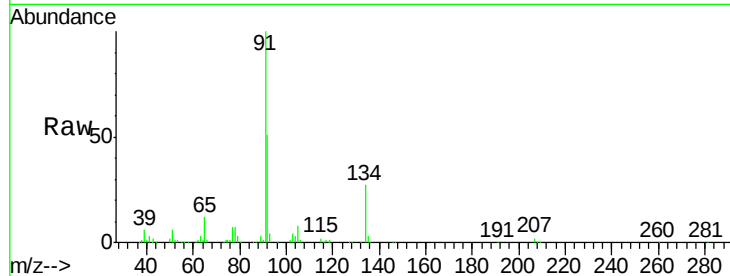
#89
n-Butylbenzene
Concen: 18.564 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.1	78.2
134	26.1	13.1	39.3

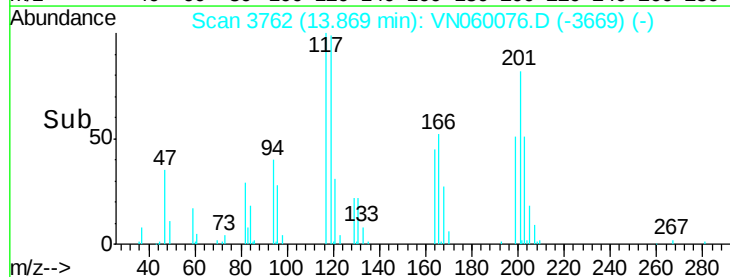
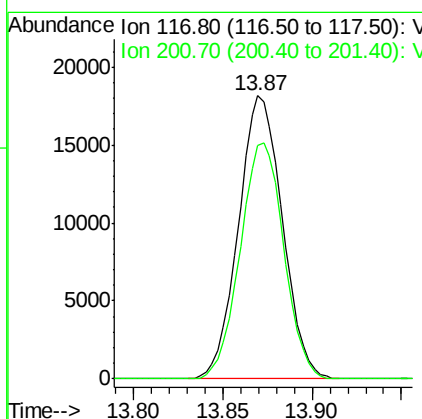
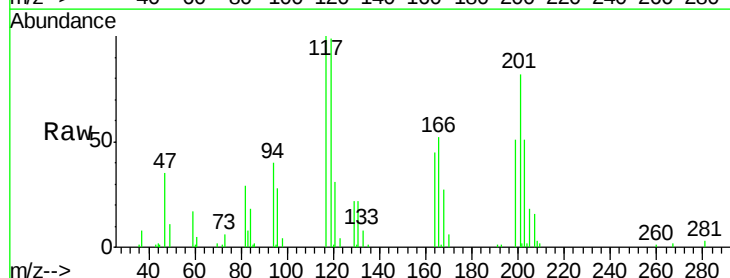
Manual Integrations
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MMDadoda
2/13/2020 10:37:35 AM



#90
Hexachloroethane
Concen: 18.645 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.7	41.7	125.1





#91

1,2-Dichlorobenzene

Concen: 19.312 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Instrument :

MSVOA_N

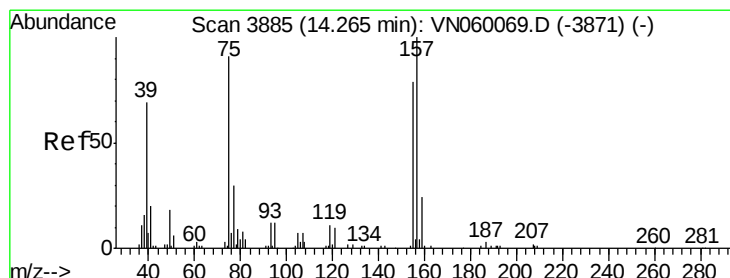
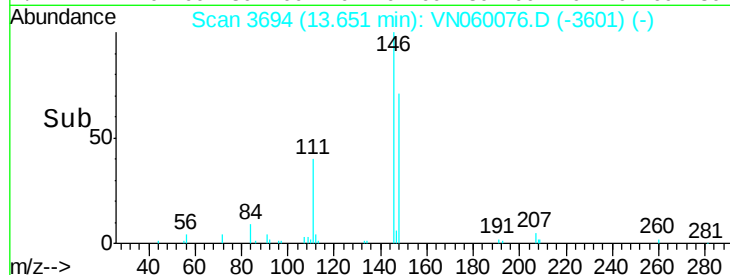
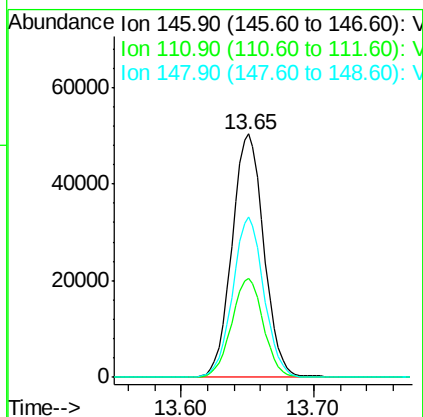
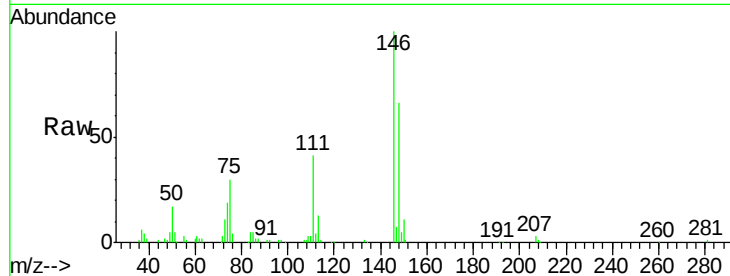
ClientSampleId :

VN0212MBS01

Tot Ion:	146	Resp:	84026
Ion Ratio	Lower	Upper	
146	100		
111	40.3	20.1	60.2
148	64.3	31.9	95.5

Manual Integrations
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MMDadoda
2/13/2020 10:37:35 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.688 ug/l

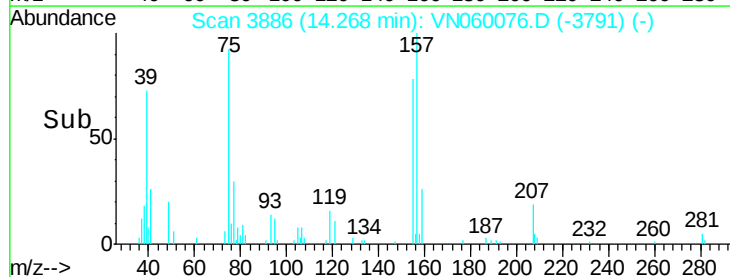
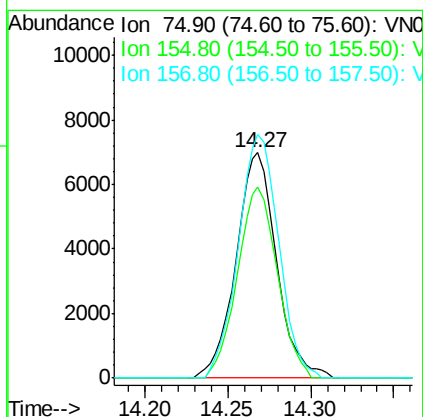
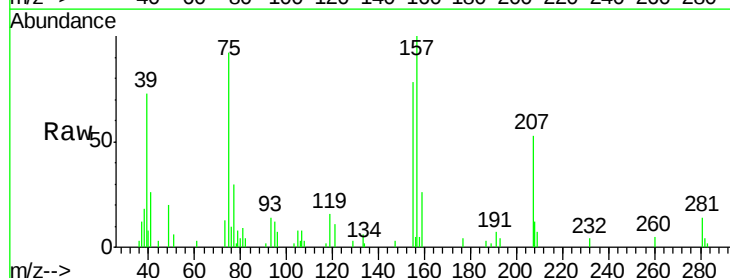
RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN060076.D

Acq: 12 Feb 2020 16:22

Tgt Ion:	75	Resp:	11875
Ion Ratio	Lower	Upper	
75	100		
155	82.9	43.0	129.0
157	107.8	54.9	164.5





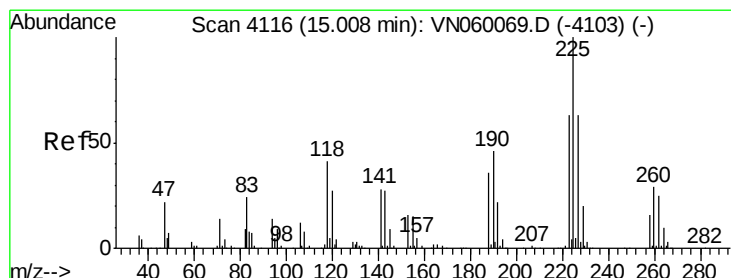
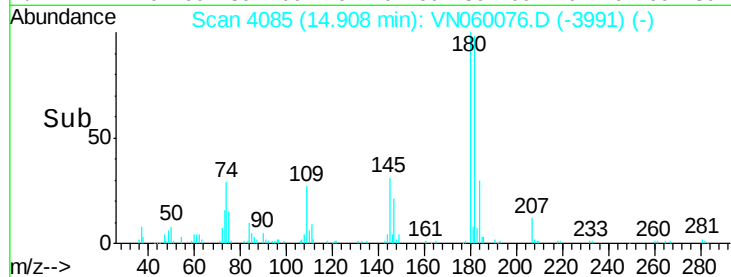
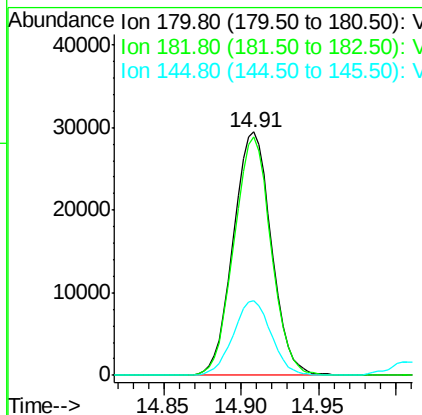
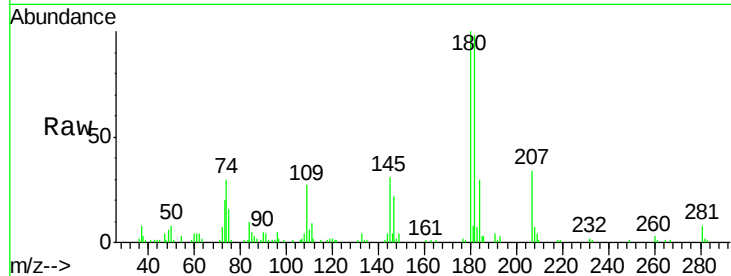
#93
 1,2,4-Trichlorobenzene
 Concen: 19.664 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0212MBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.8
145	30.6	15.2	45.5

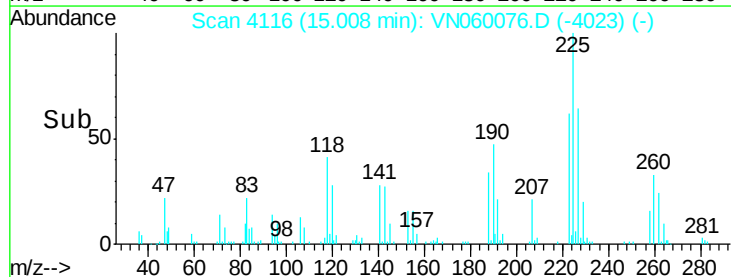
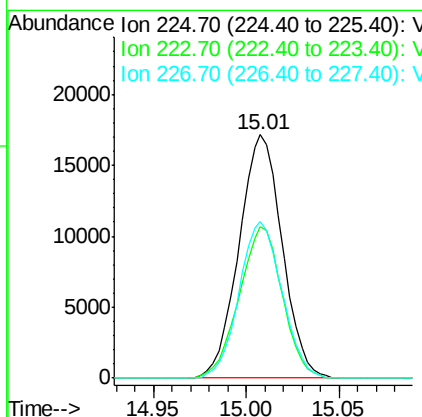
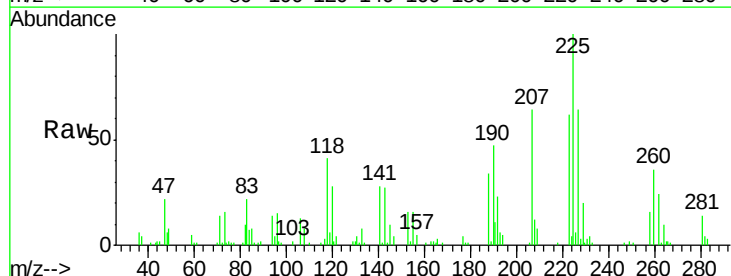
Manual Integrations
 APPROVED

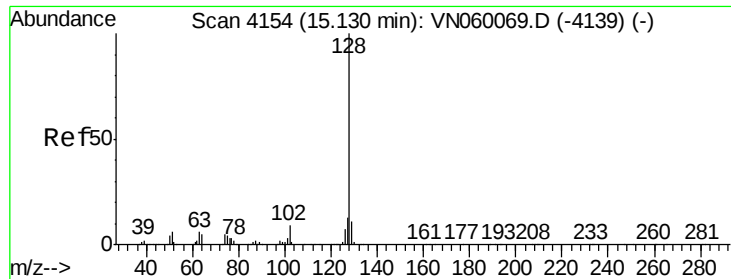
MMDadoda
 2/13/2020 10:37:35 AM



#94
 Hexachlorobutadiene
 Concen: 18.592 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN060076.D
 Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.1	31.5	94.5
227	63.4	31.8	95.4





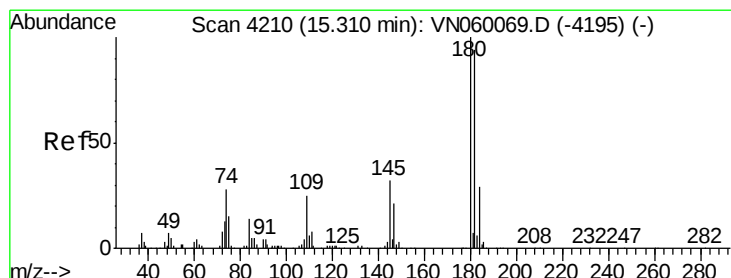
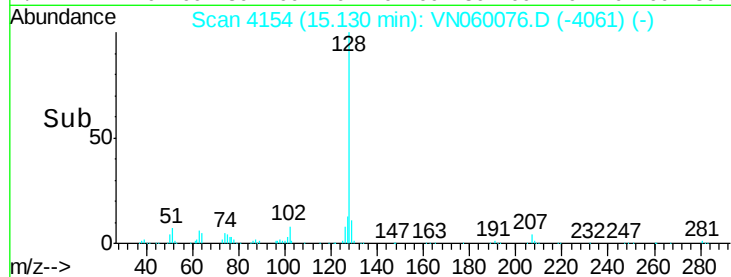
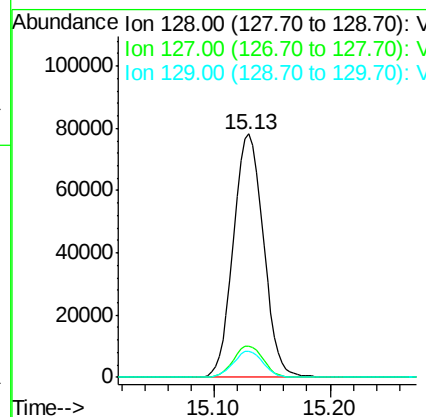
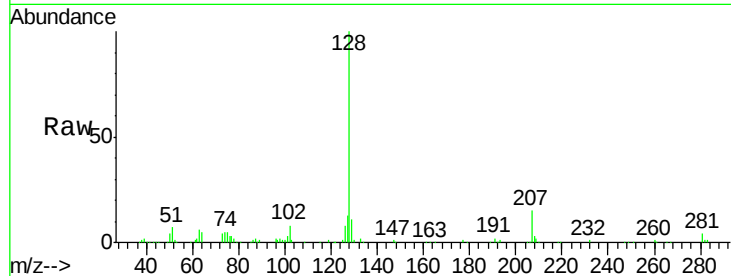
#95
Naphthalene
Concen: 20.295 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Instrument :
MSVOA_N
ClientSampleId :
VN0212MBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	140156		
127	12.8	10.3	15.5	
129	10.6	8.6	13.0	

Manual Integrations
APPROVED

MMDadoda
2/13/2020 10:37:35 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.572 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. -0.00 min
Lab File: VN060076.D
Acq: 12 Feb 2020 16:22

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	49830		
182	94.6	47.5	142.5	
145	31.9	16.1	48.3	

