

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021920\
 Data File : VN060147.D
 Acq On : 19 Feb 2020 11:53
 Operator : JC/MD
 Sample : VN0219MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0219MBS01

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 11:48:30 AM

Quant Time: Feb 20 02:51:23 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	183826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	295342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	273864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129794	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	110854	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
35) Dibromofluoromethane	7.56	113	86065	47.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.82%	
50) Toluene-d8	10.08	98	332976	46.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.16%	
62) 4-Bromofluorobenzene	12.40	95	120655	45.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.86%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.83	85	34670	18.869	ug/l	100
3) Chloromethane	2.04	50	41311	18.892	ug/l	98
4) Vinyl Chloride	2.17	62	46259	18.560	ug/l	100
5) Bromomethane	2.55	94	28454	18.618	ug/l	99
6) Chloroethane	2.69	64	23351	18.523	ug/l	97
7) Trichlorofluoromethane	3.00	101	59412	18.489	ug/l	99
8) Diethyl Ether	3.39	74	21621	20.213	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	34104	19.116	ug/l	100
10) Methyl Iodide	3.93	142	44233	20.019	ug/l	100
11) Tert butyl alcohol	4.73	59	33099	98.882	ug/l	99
12) 1,1-Dichloroethene	3.72	96	32739	18.837	ug/l	97
13) Acrolein	3.58	56	22200	67.097	ug/l	95
14) Allyl chloride	4.29	41	48496	18.958	ug/l	95
15) Acrylonitrile	4.94	53	82629	101.080	ug/l	99
16) Acetone	3.78	43	84746	86.856	ug/l	100
17) Carbon Disulfide	4.03	76	92449	17.648	ug/l	99
18) Methyl Acetate	4.29	43	38179	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.00	73	115426	19.749	ug/l	97
20) Methylene Chloride	4.52	84	37542	19.286	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	35661	18.823	ug/l	99
22) Diisopropyl ether	5.91	45	110673	19.741	ug/l	98
23) Vinyl Acetate	5.86	43	461667	98.061	ug/l	100
24) 1,1-Dichloroethane	5.81	63	65294	19.226	ug/l	99
25) 2-Butanone	6.80	43	113546	92.531	ug/l	95
26) 2,2-Dichloropropane	6.79	77	59597	18.475	ug/l	100
27) cis-1,2-Dichloroethene	6.80	96	42281	19.069	ug/l	98
28) Bromochloromethane	7.16	49	25499	19.098	ug/l #	9
29) Tetrahydrofuran	7.18	42	73350	97.435	ug/l	99
30) Chloroform	7.35	83	68395	19.225	ug/l	99
31) Cyclohexane	7.63	56	58968	18.639	ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	60772	18.693	ug/l	99
36) 1,1-Dichloropropene	7.77	75	49470	18.084	ug/l	99
37) Ethyl Acetate	6.90	43	45840	18.541	ug/l	99
38) Carbon Tetrachloride	7.75	117	53246	17.922	ug/l	98

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	60789	17.901	ug/l	98
40) Benzene	8.02	78	150162	18.505	ug/l	98
41) Methacrylonitrile	7.15	41	19399m	18.710	ug/l	
42) 1,2-Dichloroethane	8.10	62	54814	19.273	ug/l	98
43) Isopropyl Acetate	8.14	43	81621	19.313	ug/l #	91
44) Trichloroethene	8.82	130	41043	18.266	ug/l	97
45) 1,2-Dichloropropane	9.10	63	38603	19.215	ug/l	99
46) Dibromomethane	9.19	93	27207	19.164	ug/l	98
47) Bromodichloromethane	9.38	83	54316	18.818	ug/l	97
48) Methyl methacrylate	9.18	41	35079	18.500	ug/l	99
49) 1,4-Dioxane	9.17	88	13393	413.389	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	233074	95.279	ug/l	100
52) Toluene	10.14	92	96078	18.463	ug/l	98
53) t-1,3-Dichloropropene	10.37	75	61410	18.849	ug/l	100
54) cis-1,3-Dichloropropene	9.82	75	63966	18.645	ug/l	99
55) 1,1,2-Trichloroethane	10.55	97	38952	19.187	ug/l	99
56) Ethyl methacrylate	10.42	69	53537	18.642	ug/l	99
57) 1,3-Dichloropropane	10.70	76	62382	18.623	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	128890	96.338	ug/l	99
59) 2-Hexanone	10.74	43	173458	91.794	ug/l	99
60) Dibromochloromethane	10.89	129	43487	18.667	ug/l	100
61) 1,2-Dibromoethane	10.99	107	39492	18.557	ug/l	97
64) Tetrachloroethene	10.62	164	38736	18.606	ug/l	99
65) Chlorobenzene	11.43	112	103158	18.489	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	40268	19.078	ug/l	99
67) Ethyl Benzene	11.50	91	185843	18.468	ug/l	99
68) m/p-Xylenes	11.62	106	139624	36.968	ug/l	98
69) o-Xylene	11.94	106	67560	18.578	ug/l	99
70) Styrene	11.96	104	105896	18.058	ug/l	100
71) Bromoform	12.12	173	30472	17.949	ug/l #	99
73) Isopropylbenzene	12.24	105	181737	18.751	ug/l	99
74) N-amyl acetate	12.07	43	67994	19.455	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	55465	19.881	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	49858m	20.078	ug/l	
77) Bromobenzene	12.52	156	45234	18.806	ug/l	98
78) n-propylbenzene	12.59	91	205714	18.629	ug/l	99
79) 2-Chlorotoluene	12.67	91	120619	18.584	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	151637	18.816	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	18776	18.513	ug/l	97
82) 4-Chlorotoluene	12.77	91	123926	18.610	ug/l	99
83) tert-Butylbenzene	12.99	119	129689	18.192	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	151438	19.037	ug/l	100
85) sec-Butylbenzene	13.17	105	173694	18.397	ug/l	100
86) p-Isopropyltoluene	13.28	119	157774	18.444	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	80365	18.875	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	78442	18.427	ug/l	98
89) n-Butylbenzene	13.61	91	137986	18.340	ug/l	99
90) Hexachloroethane	13.87	117	28882	18.073	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	78280	18.787	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	11584	19.051	ug/l	93

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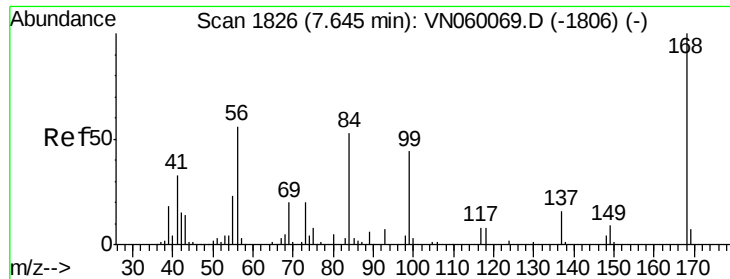
Manual Integrations
APPROVED

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	45902	18.749	ug/l	99
94) Hexachlorobutadiene	15.01	225	26364	18.394	ug/l	99
95) Naphthalene	15.13	128	123196	18.628	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	45106	18.500	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion:168 Resp: 183826

Ion Ratio Lower Upper

168 100

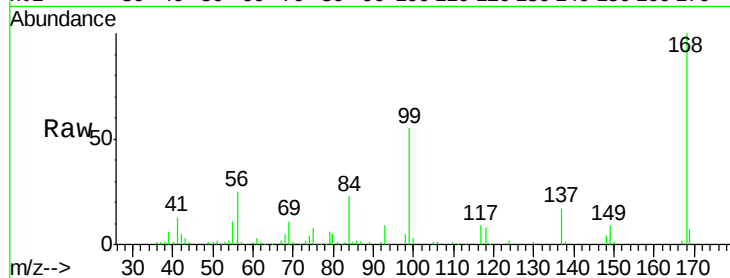
99 54.5 42.7 64.1

Manual Integrations

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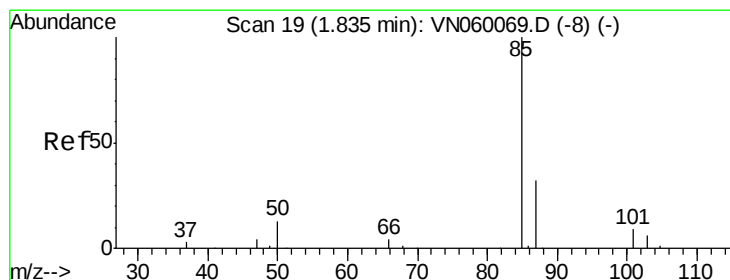
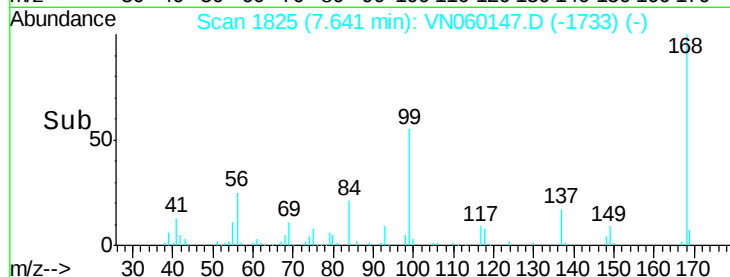
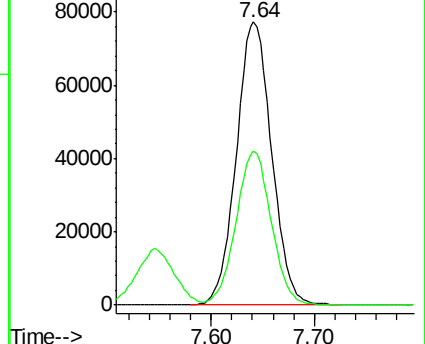
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2/21/2020 11:48:30 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 18.869 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN060147.D

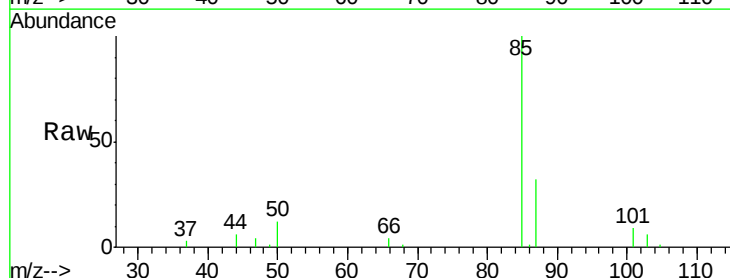
Acq: 19 Feb 2020 11:53

Tgt Ion: 85 Resp: 34670

Ion Ratio Lower Upper

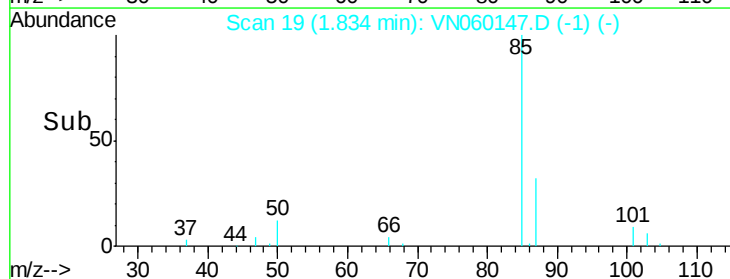
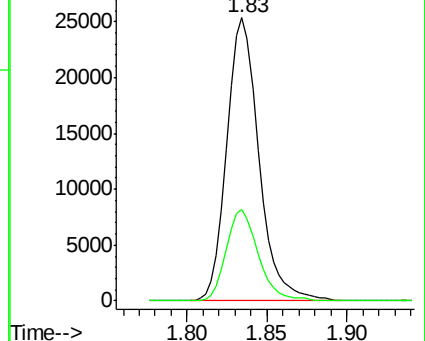
85 100

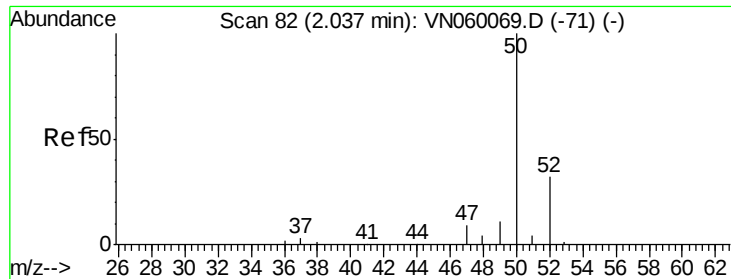
87 32.1 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 18.892 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 50 Resp: 41311

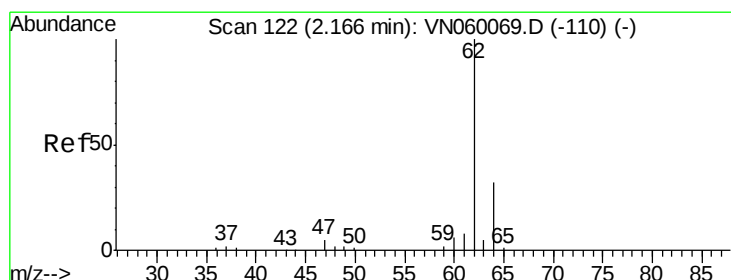
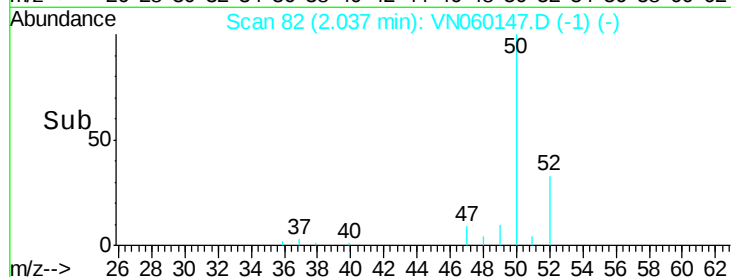
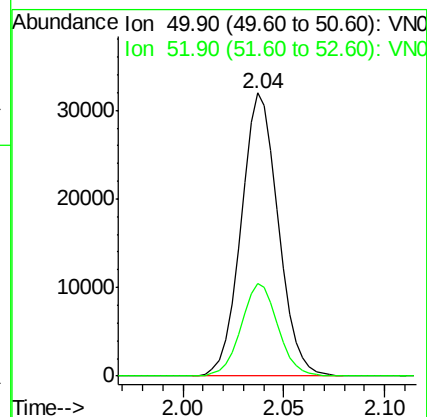
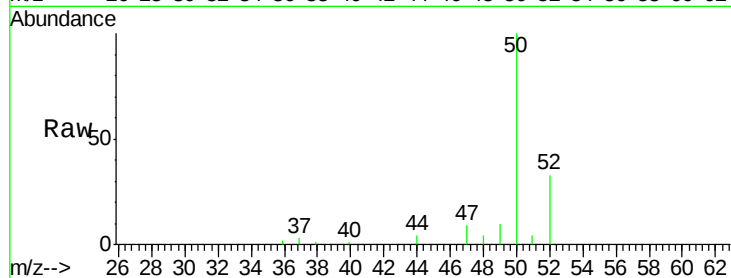
Ion Ratio Lower Upper

50 100

52 32.9 25.6 38.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.560 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN060147.D

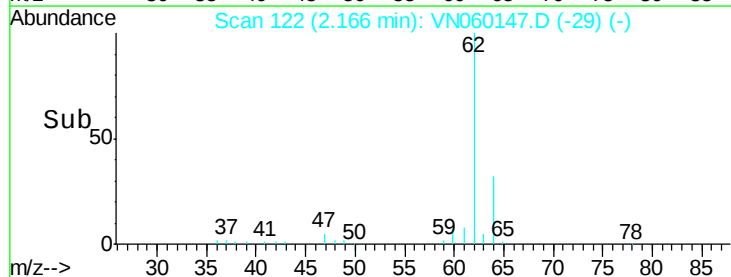
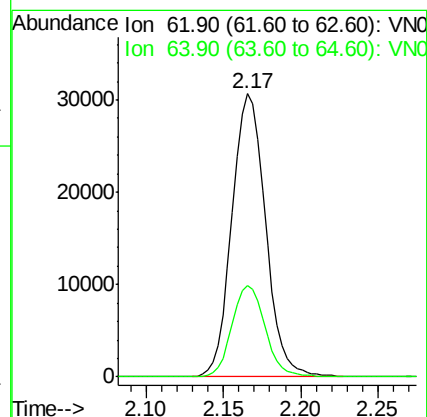
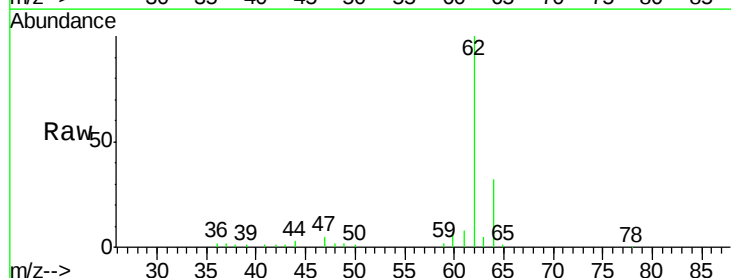
Acq: 19 Feb 2020 11:53

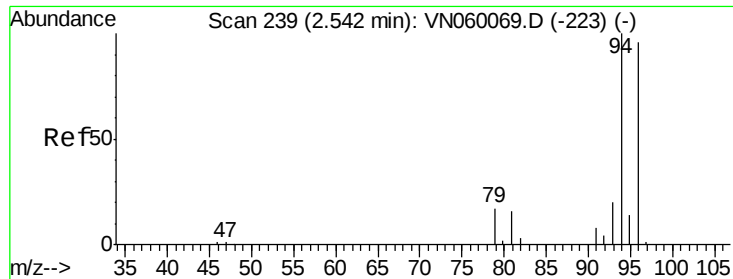
Tgt Ion: 62 Resp: 46259

Ion Ratio Lower Upper

62 100

64 32.3 25.9 38.9





#5

Bromomethane

Concen: 18.618 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 94 Resp: 28454

Ion Ratio Lower Upper

94 100

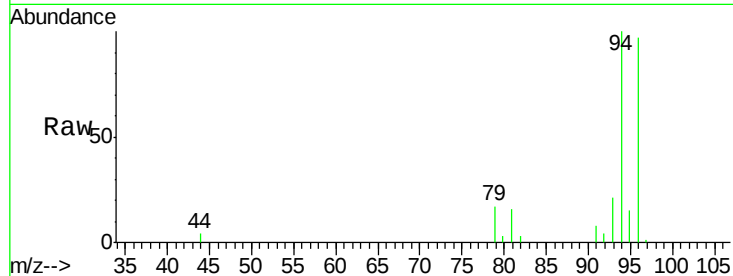
96 96.6 76.7 115.1

Manual Integrations

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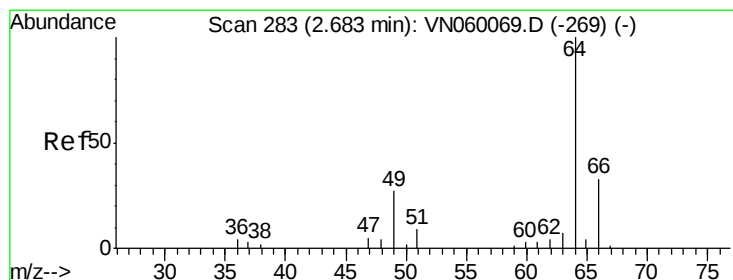
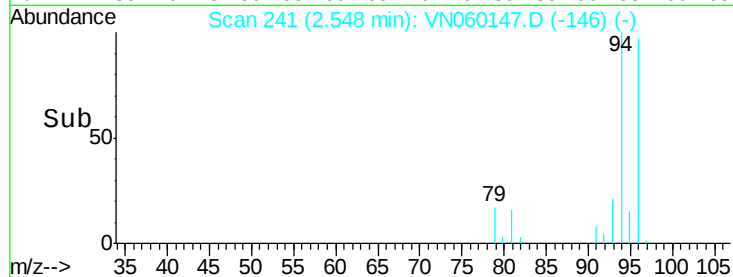
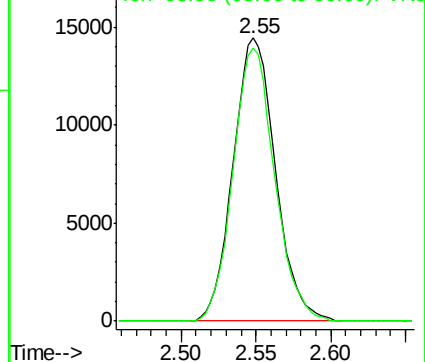
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.523 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN060147.D

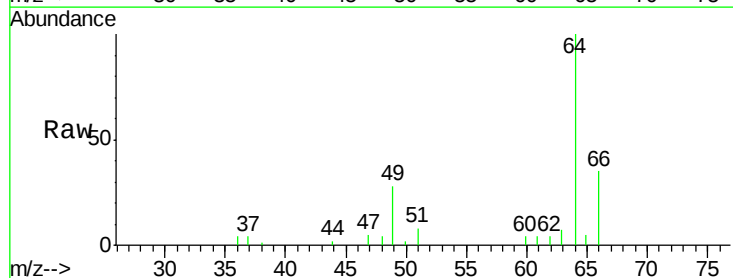
Acq: 19 Feb 2020 11:53

Tgt Ion: 64 Resp: 23351

Ion Ratio Lower Upper

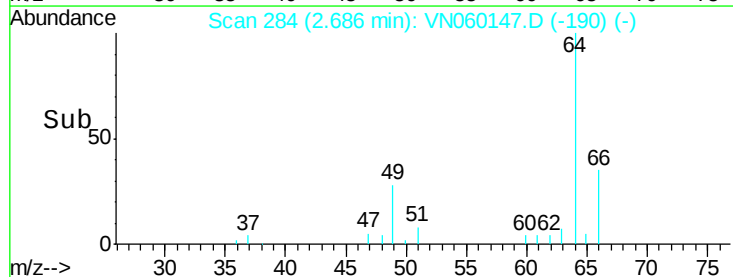
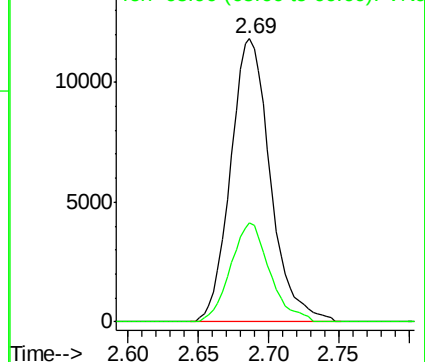
64 100

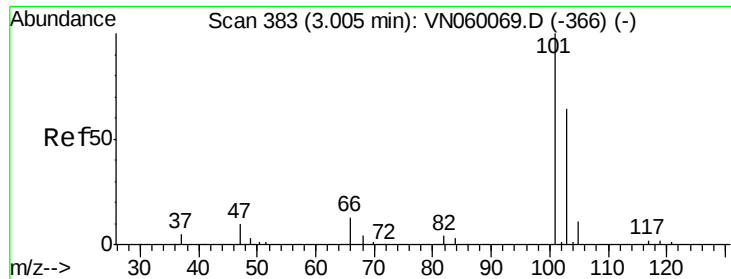
66 34.9 26.6 40.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

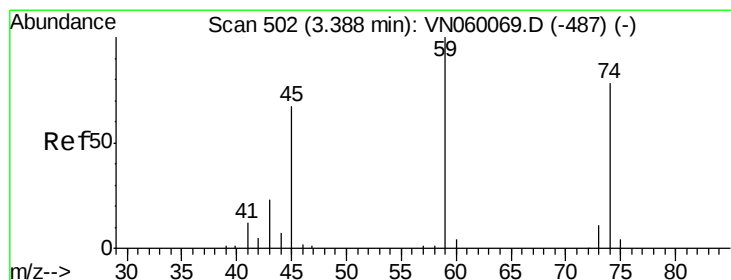
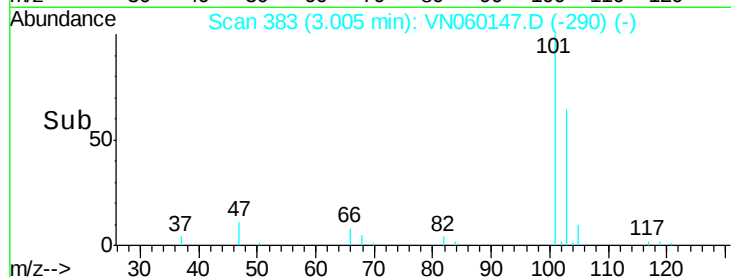
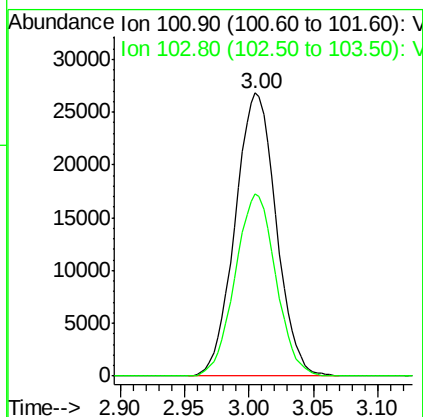
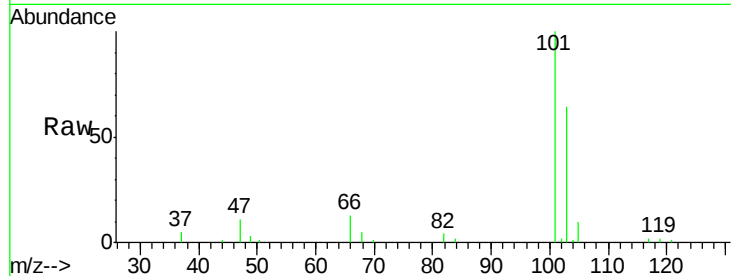
Trichlorofluoromethane
Concen: 18.489 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampled :
VN0219MBS01

Tot Ion:101 Resp: 59412
Ion Ratio Lower Upper
101 100
103 64.2 51.0 76.6

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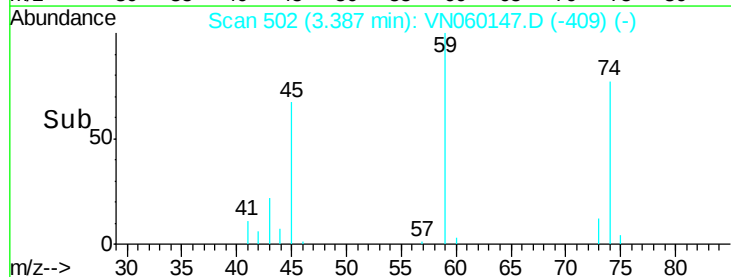
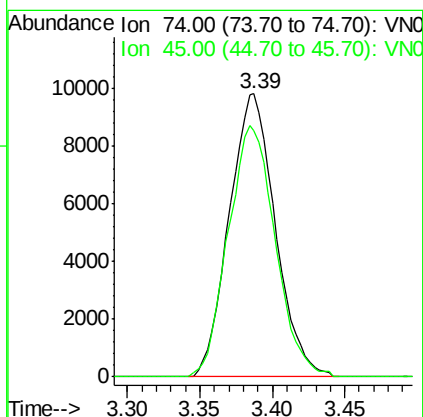
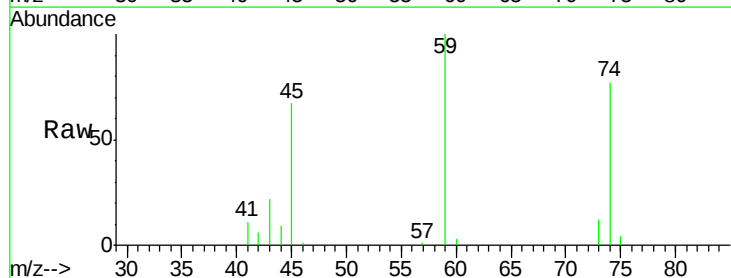
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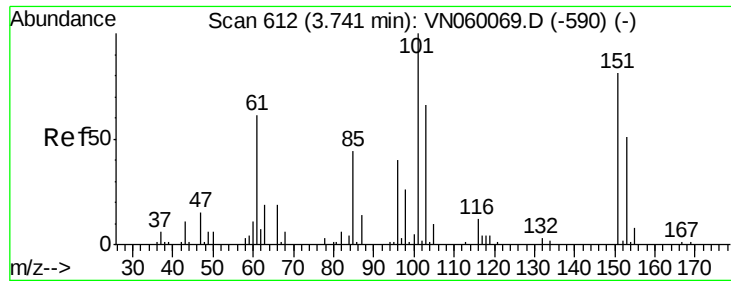


#8

Diethyl Ether
Concen: 20.213 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 74 Resp: 21621
Ion Ratio Lower Upper
74 100
45 90.6 44.7 134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.116 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

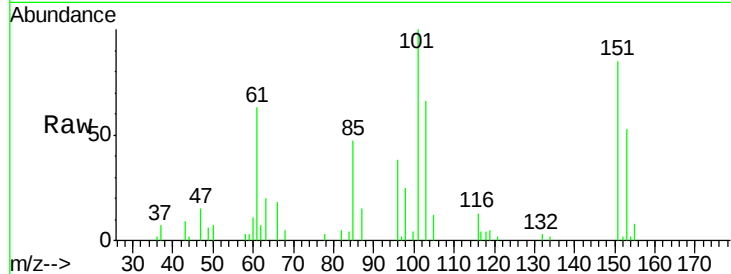
ClientSampled :

VN0219MBS01

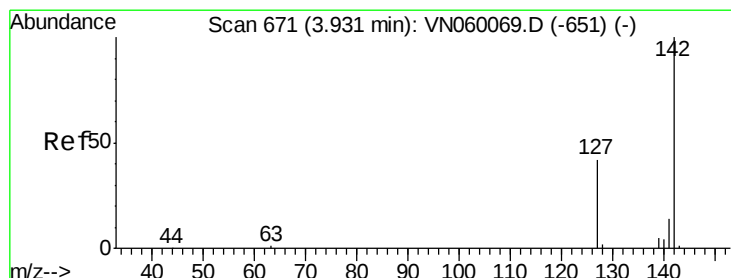
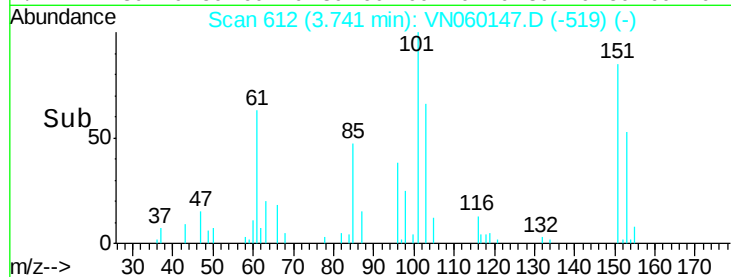
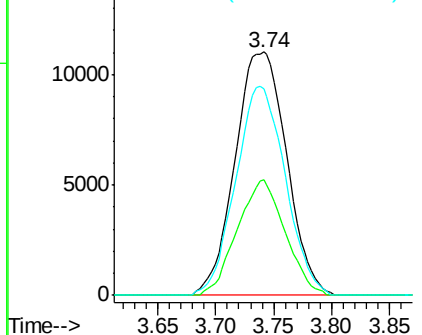
Tot Ion:	101	Resp:	34104
Ion Ratio	Lower	Upper	
101	100		
85	44.1	35.1	52.7
151	82.7	65.8	98.6

Manual Integrations
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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VN
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 20.019 ug/l

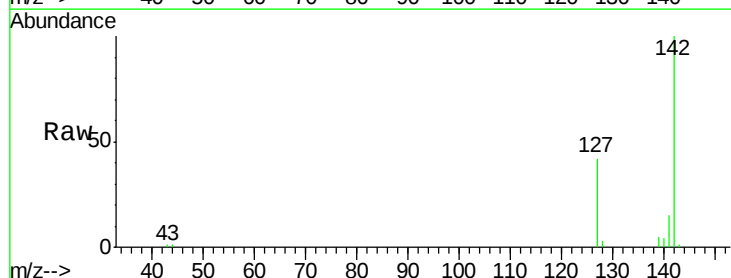
RT: 3.93 min Scan# 671

Delta R.T. 0.00 min

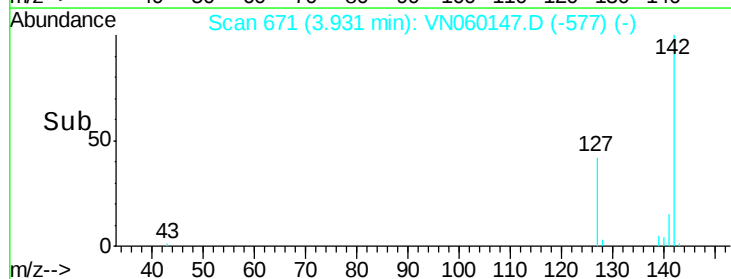
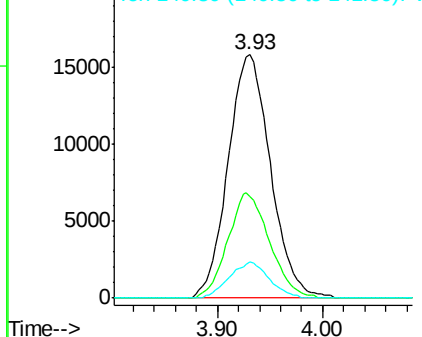
Lab File: VN060147.D

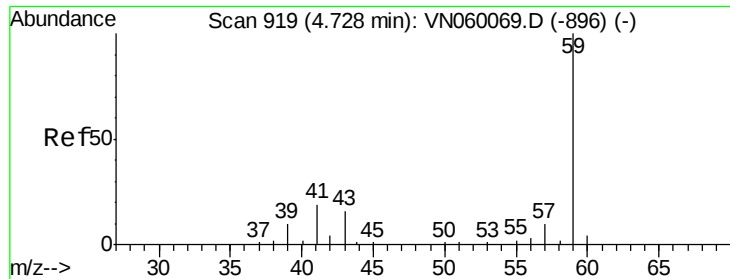
Acq: 19 Feb 2020 11:53

Tgt Ion:	142	Resp:	44233
Ion Ratio	Lower	Upper	
142	100		
127	42.2	33.6	50.4
141	13.9	11.4	17.2



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





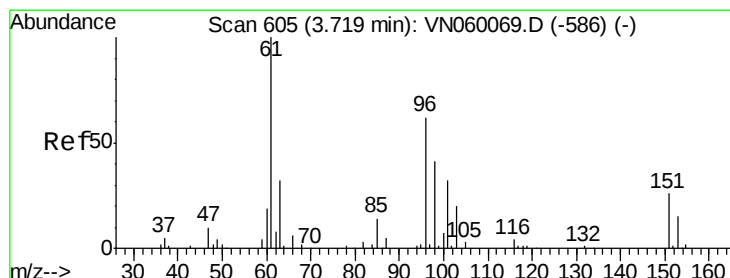
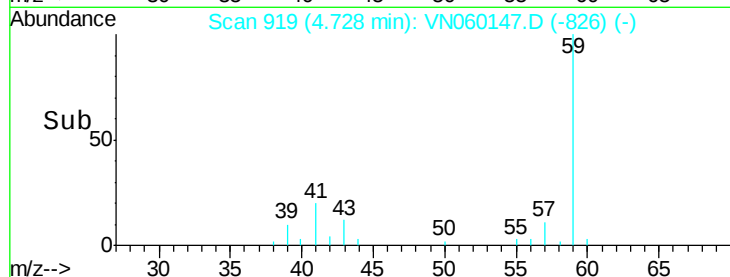
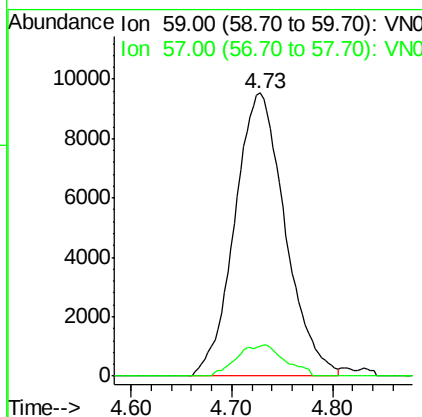
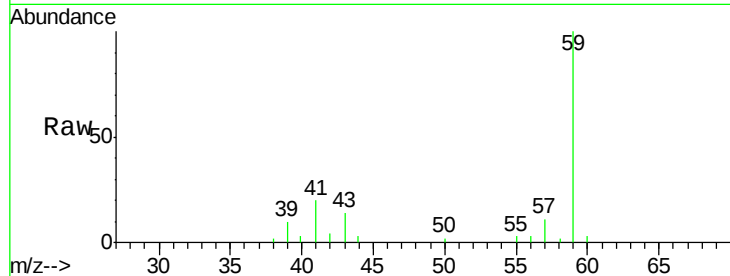
#11
Tert butyl alcohol
Concen: 98.882 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampled :
VN0219MBS01

Tot Ion: 59 Resp: 33099
Ion Ratio Lower Upper
59 100
57 10.5 8.2 12.4

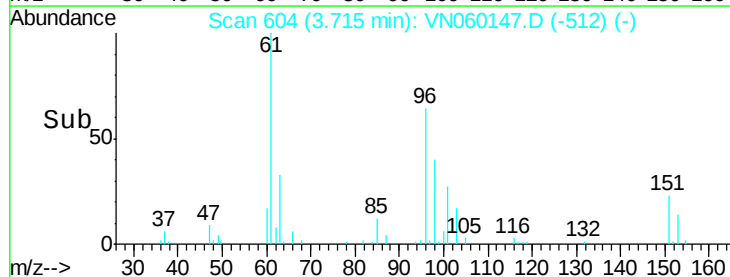
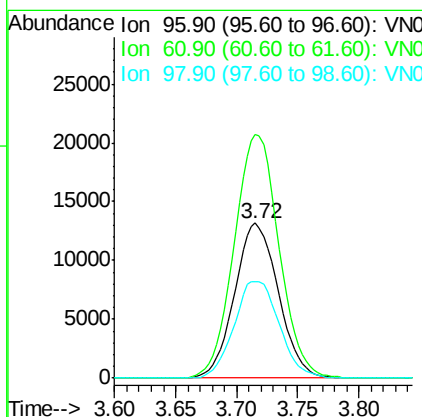
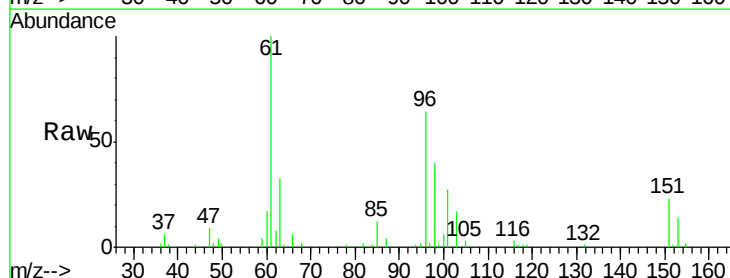
Manual Integrations
APPROVED

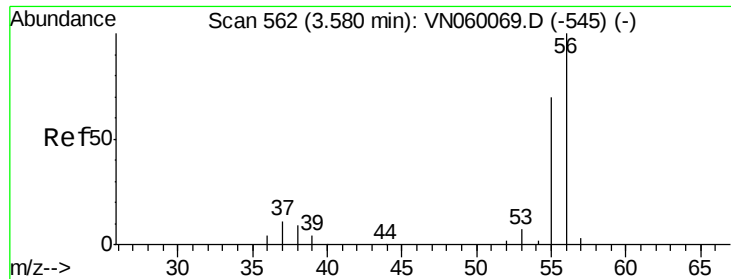
MMDadoda
2/21/2020 11:48:30 AM



#12
1,1-Dichloroethene
Concen: 18.837 ug/l
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 96 Resp: 32739
Ion Ratio Lower Upper
96 100
61 157.2 128.3 192.5
98 62.6 52.2 78.4





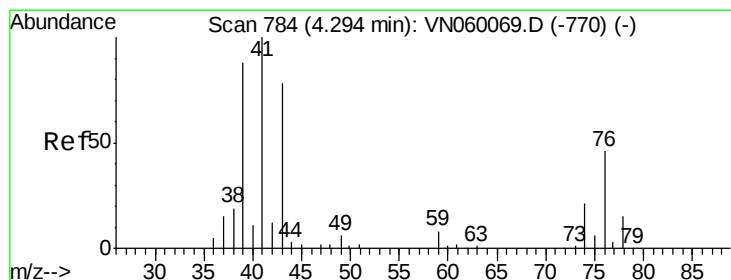
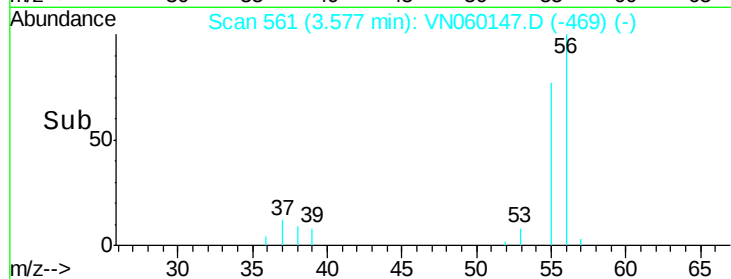
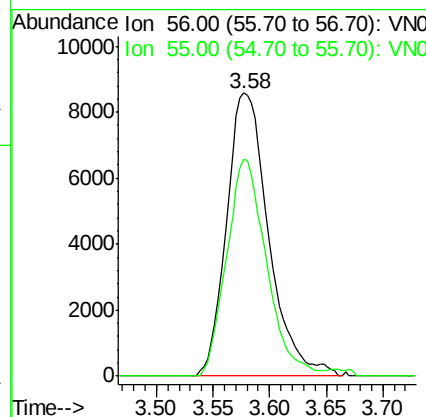
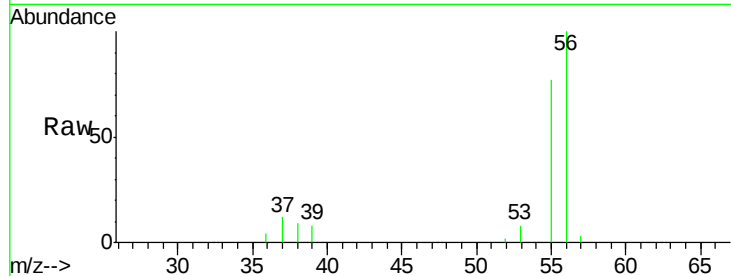
#13
Acrolein
Concen: 67.097 ug/l
RT: 3.58 min Scan# 561
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion: 56 Resp: 22200
Ion Ratio Lower Upper
56 100
55 72.5 54.8 82.2

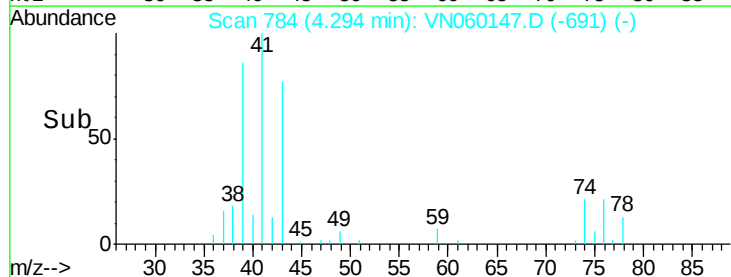
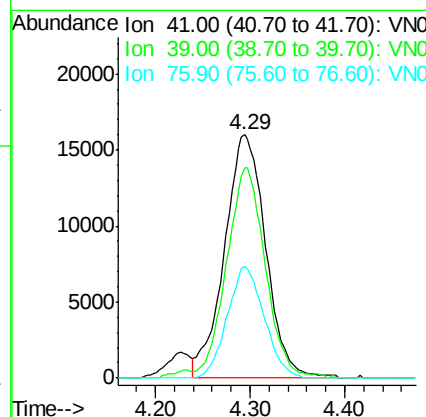
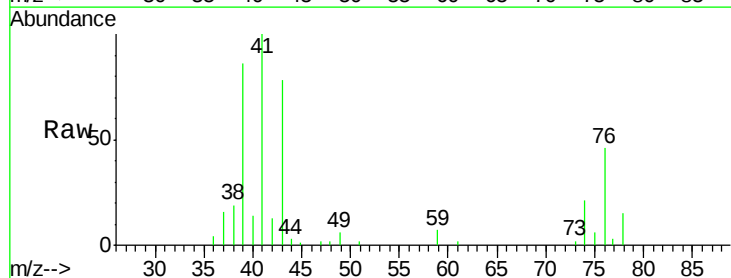
Manual Integrations
APPROVED

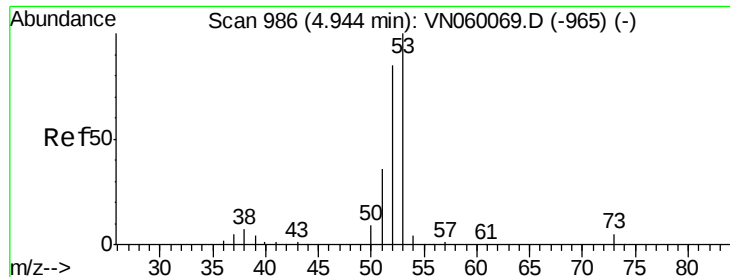
MMDadoda
2/21/2020 11:48:30 AM



#14
Allyl chloride
Concen: 18.958 ug/l
RT: 4.29 min Scan# 784
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 41 Resp: 48496
Ion Ratio Lower Upper
41 100
39 78.5 67.8 101.8
76 40.9 33.9 50.9





#15

Acrylonitrile

Concen: 101.080 ug/l

RT: 4.94 min Scan# 985

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

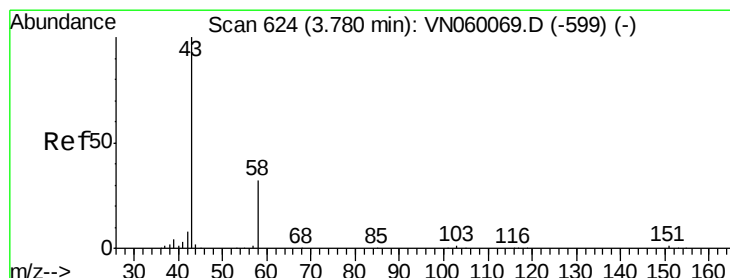
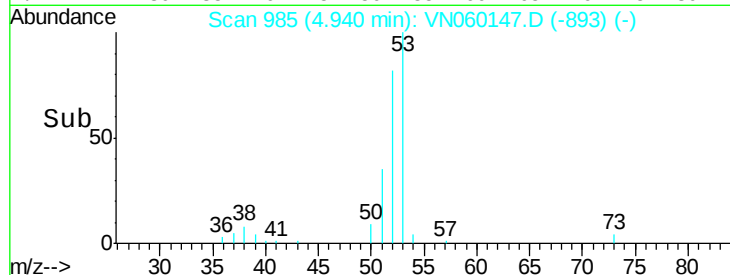
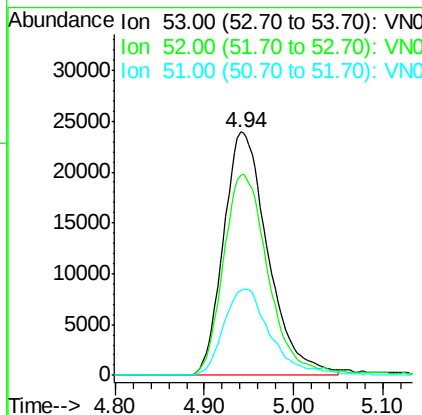
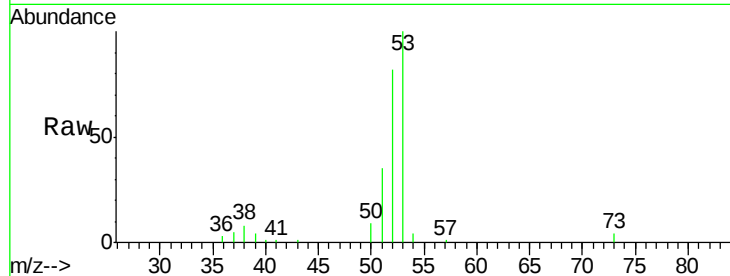
ClientSampleId :

VN0219MBS01

Tot Ion:	53	Resp:	82629
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.8	100.2
51	37.1	29.4	44.0

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 86.856 ug/l

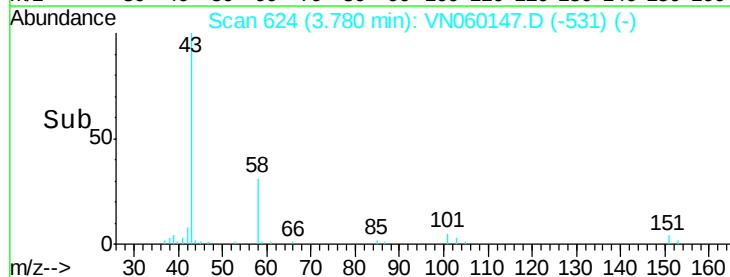
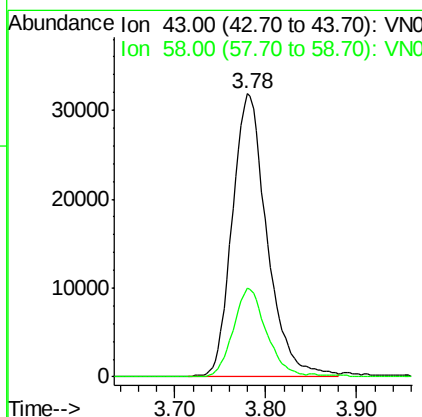
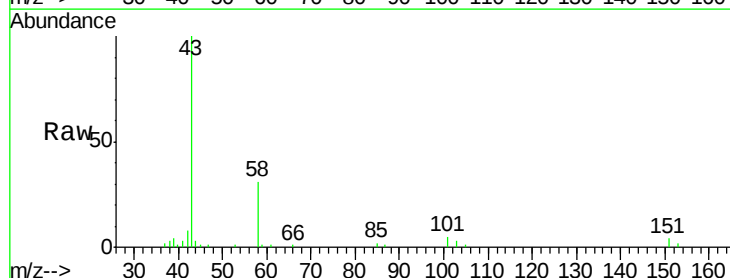
RT: 3.78 min Scan# 624

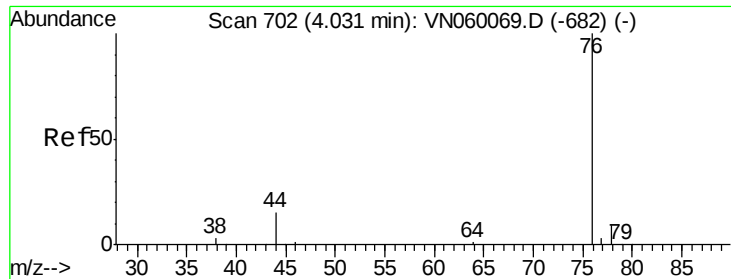
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	43	Resp:	84746
Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.2	37.8





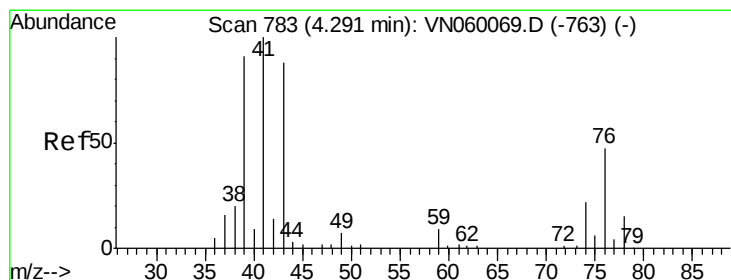
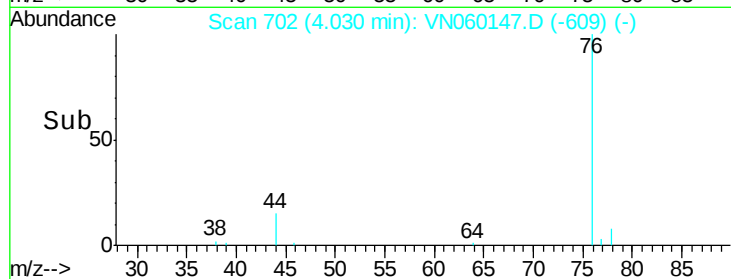
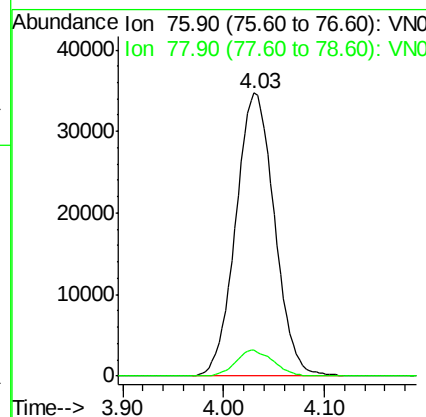
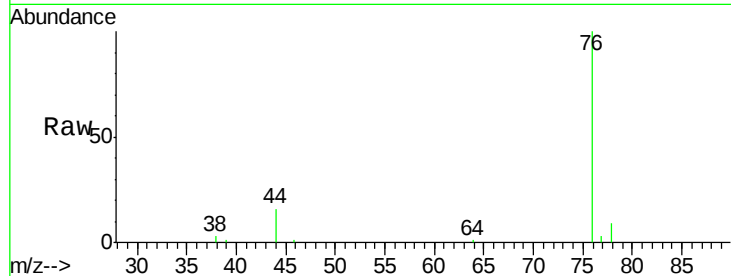
#17
Carbon Disulfide
Concen: 17.648 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampled :
VN0219MBS01

Tot Ion: 76 Resp: 92449
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6

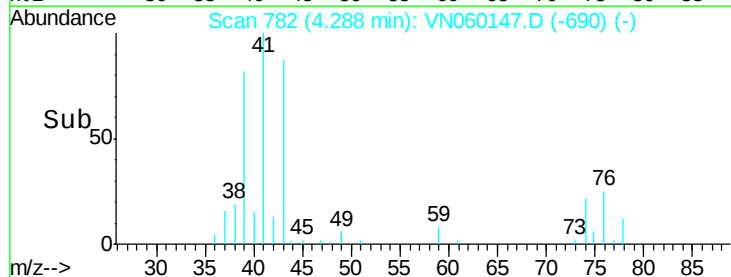
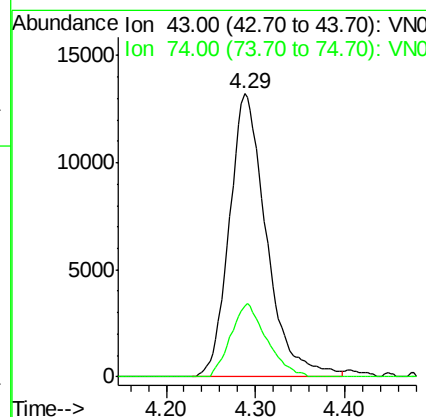
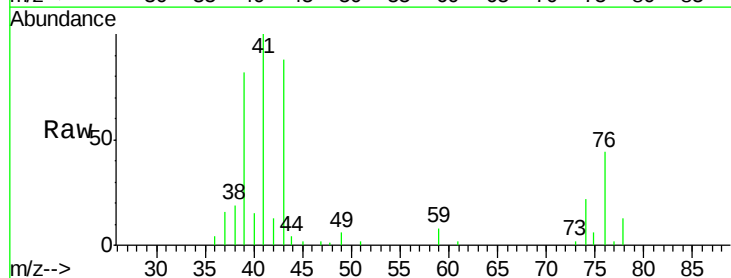
Manual Integrations
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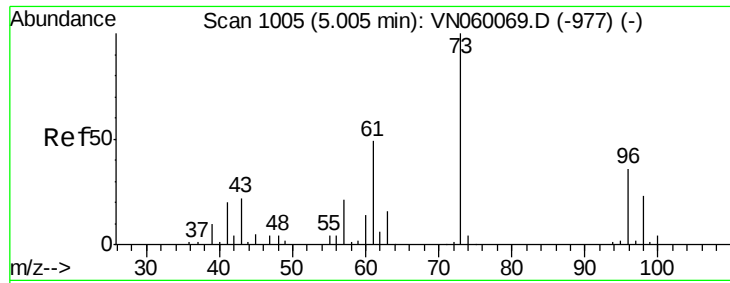
MMDadoda
2/21/2020 11:48:30 AM



#18
Methyl Acetate
Concen: 20.830 ug/l
RT: 4.29 min Scan# 782
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 43 Resp: 38179
Ion Ratio Lower Upper
43 100
74 24.9 20.3 30.5





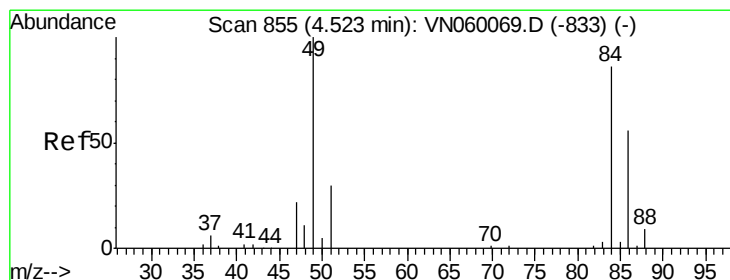
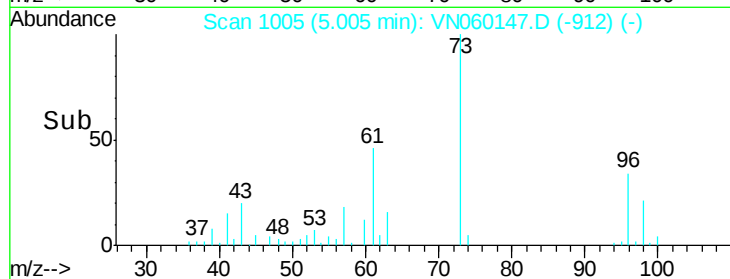
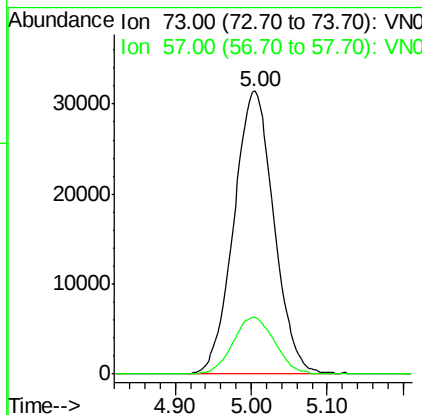
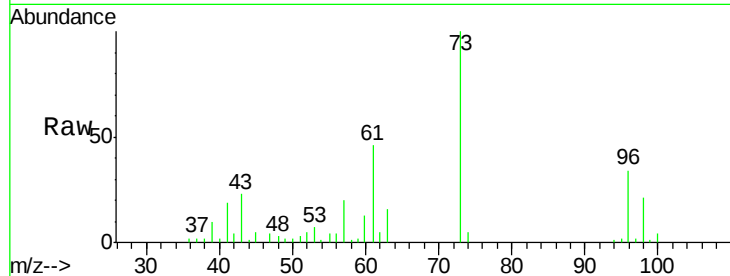
#19
Methvl tert-butvl Ether
Concen: 19.749 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion: 73 Resp: 115426
Ion Ratio Lower Upper
73 100
57 20.3 17.2 25.8

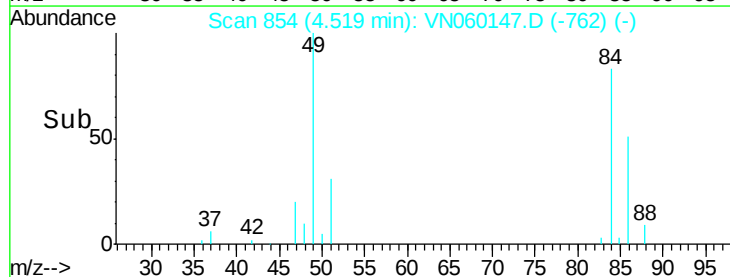
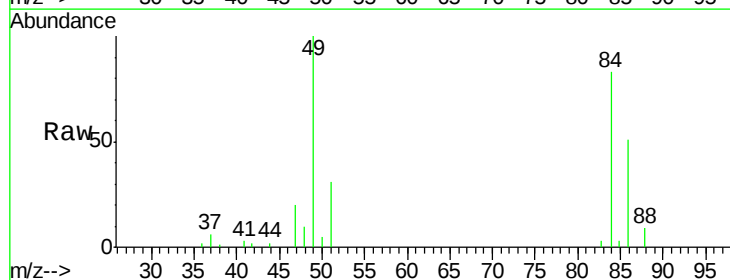
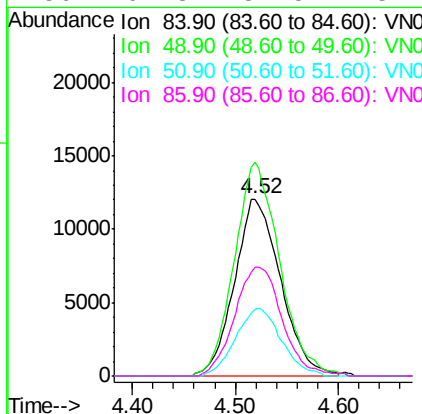
Manual Integrations
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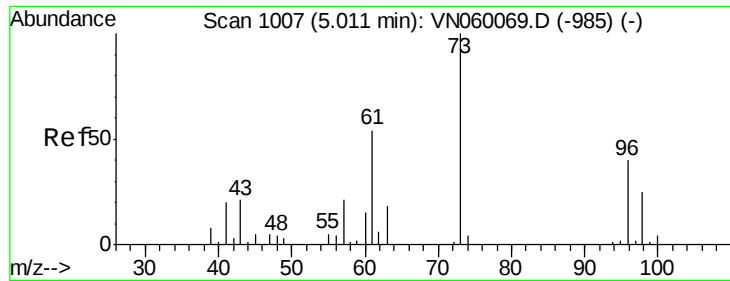
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2/21/2020 11:48:30 AM



#20
Methylene Chloride
Concen: 19.286 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 84 Resp: 37542
Ion Ratio Lower Upper
84 100
49 120.9 93.4 140.0
51 37.6 28.4 42.6
86 61.3 52.5 78.7





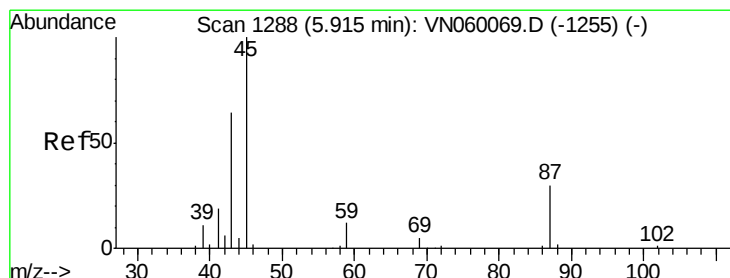
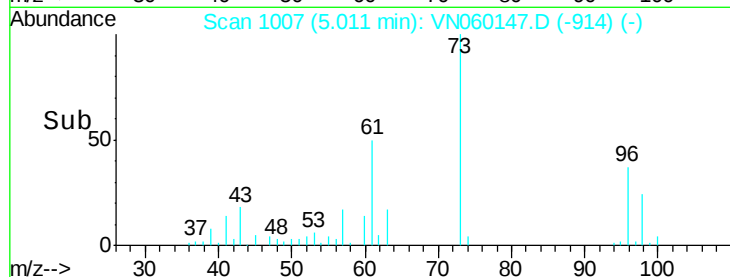
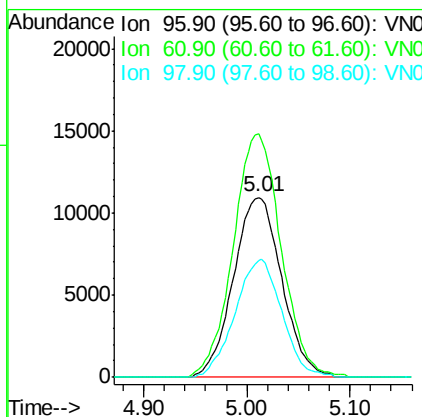
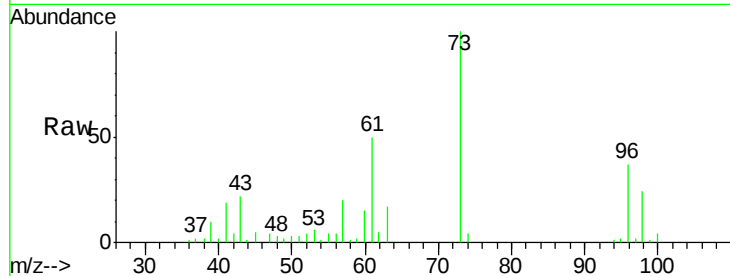
#21
trans-1,2-Dichloroethene
Concen: 18.823 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.3	109.3	163.9
98	65.1	51.0	76.6

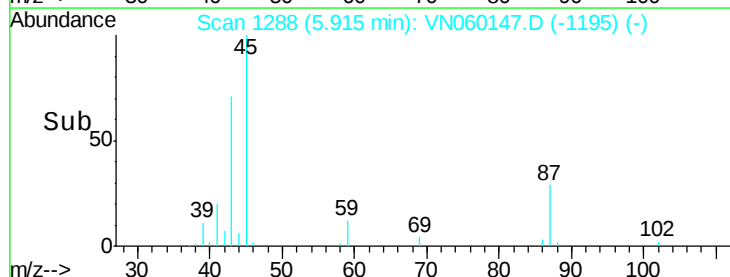
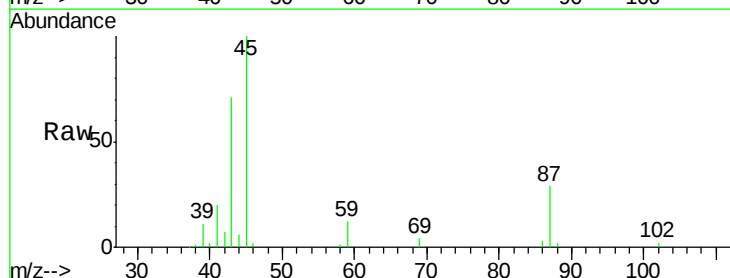
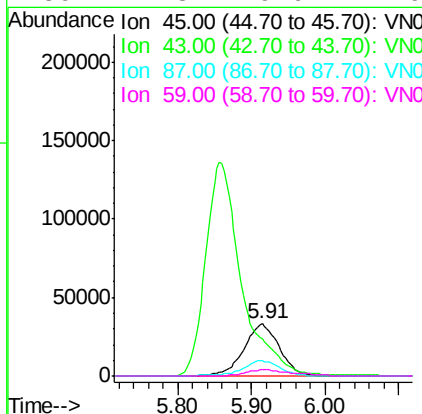
Manual Integrations
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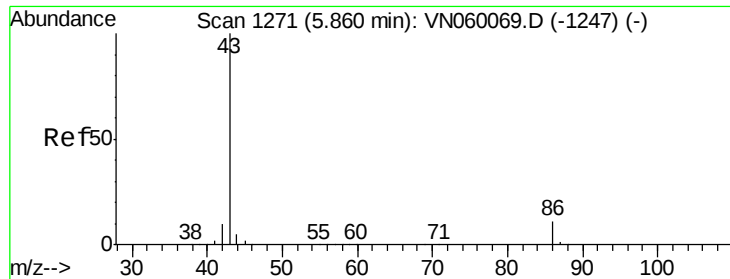
MMDadoda
2/21/2020 11:48:30 AM



#22
Diisopropyl ether
Concen: 19.741 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.7	55.9	83.9
87	28.6	24.5	36.7
59	11.3	9.9	14.9





#23

Vinyl Acetate

Concen: 98.061 ug/l

RT: 5.86 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampled :

VN0219MBS01

Tot Ion: 43 Resp: 461667

Ion Ratio Lower Upper

43 100

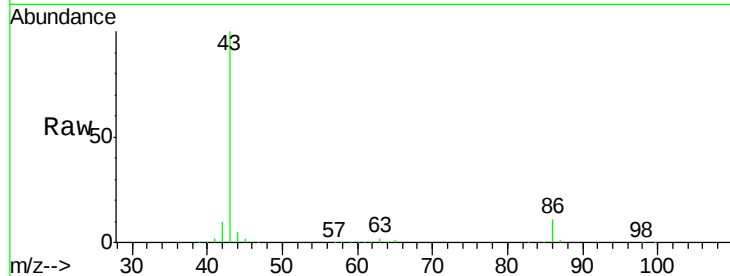
86 11.0 8.9 13.3

Manual Integrations

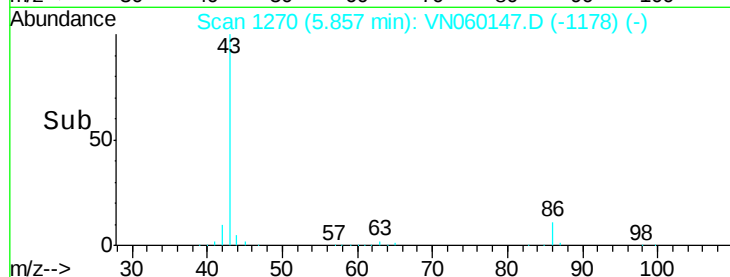
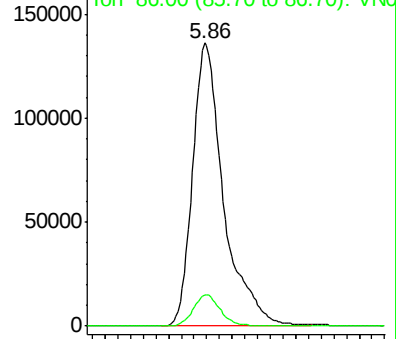
APPROVED

MMDadoda

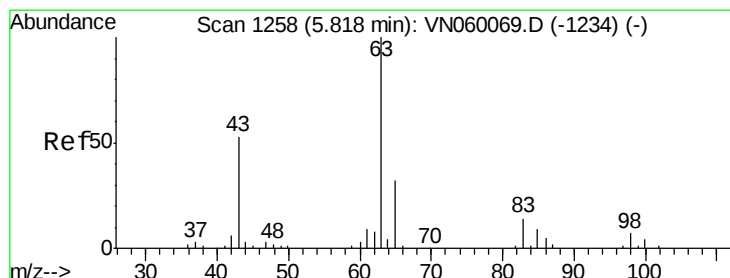
2/21/2020 11:48:30 AM



Abundance Ion 43.00 (42.70 to 43.70): VN060147.D (-1178) (-)



Time-->



#24

1,1-Dichloroethane

Concen: 19.226 ug/l

RT: 5.81 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

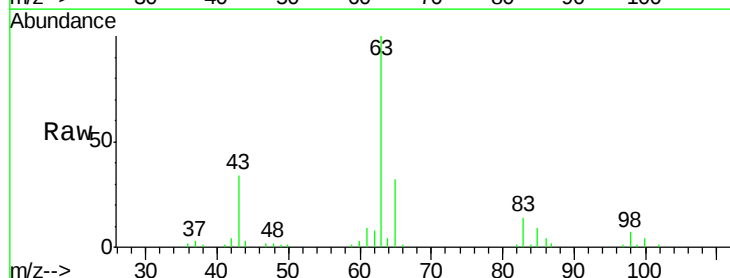
Tgt Ion: 63 Resp: 65294

Ion Ratio Lower Upper

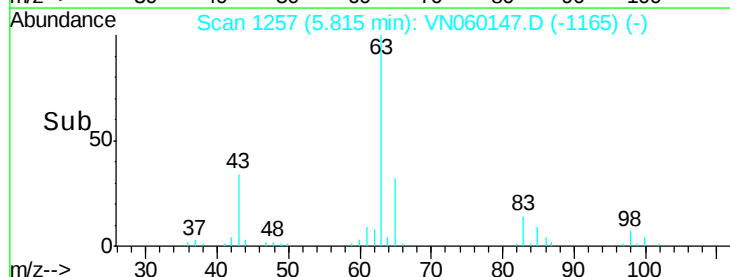
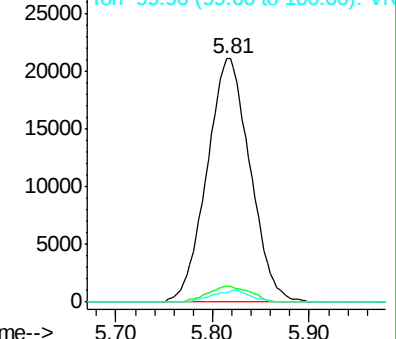
63 100

98 6.7 3.5 10.5

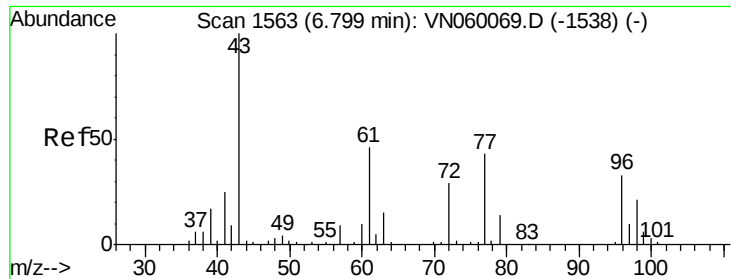
100 4.1 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VN060147.D (-1165) (-)



Time-->



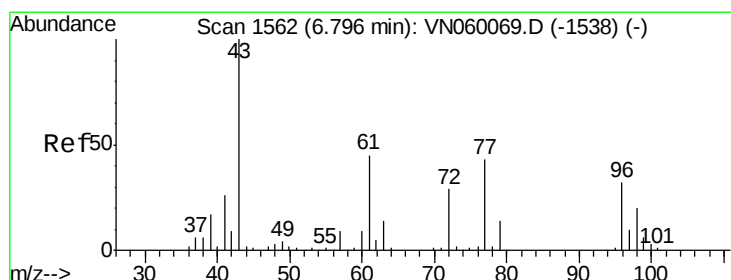
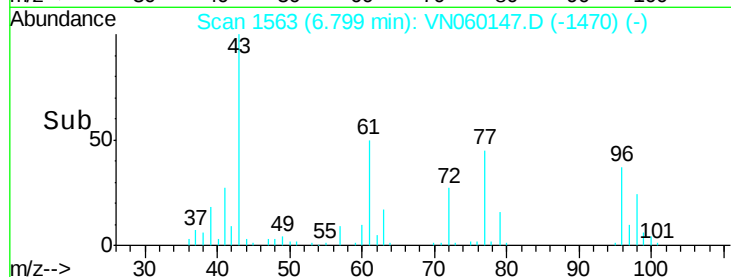
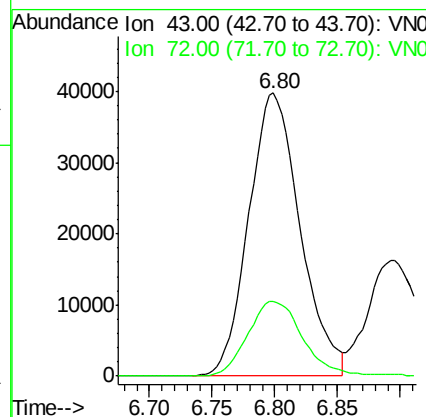
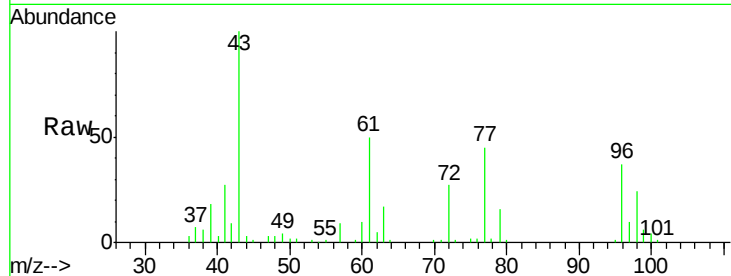
#25
2-Butanone
Concen: 92.531 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion: 43 Resp: 113546
Ion Ratio Lower Upper
43 100
72 26.6 23.3 34.9

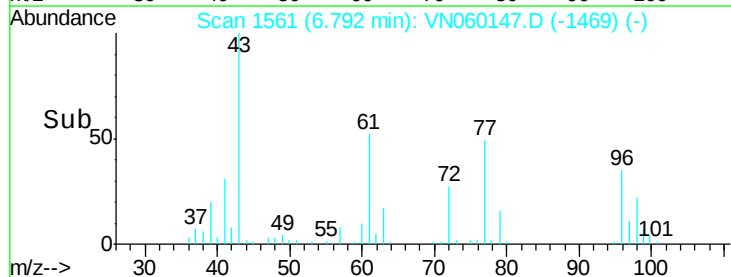
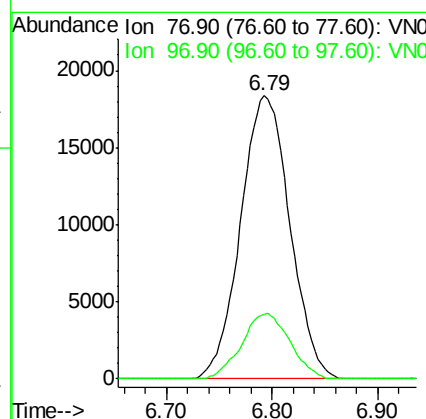
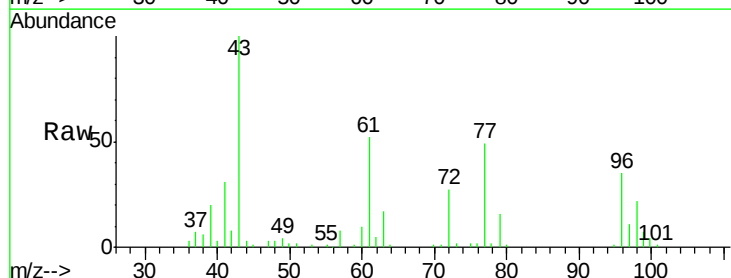
Manual Integrations
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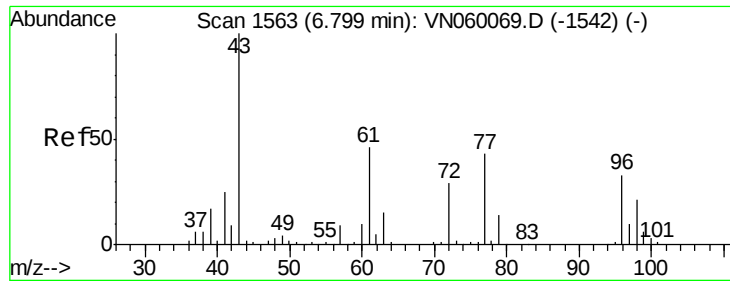
MMDadoda
2/21/2020 11:48:30 AM



#26
2,2-Dichloropropane
Concen: 18.475 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 77 Resp: 59597
Ion Ratio Lower Upper
77 100
97 22.6 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 19.069 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

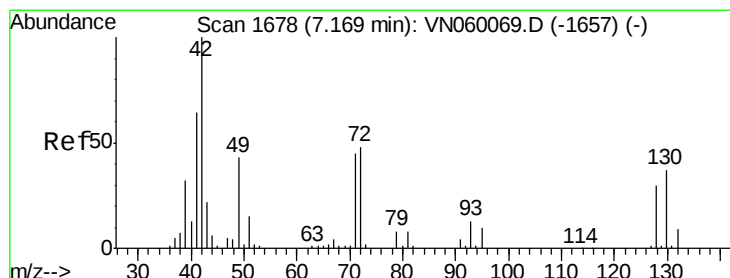
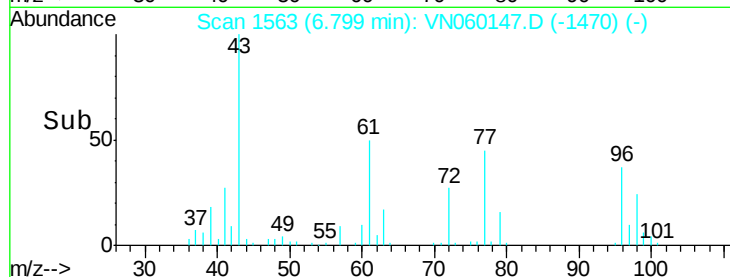
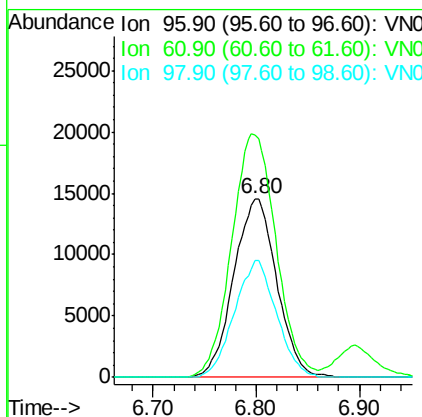
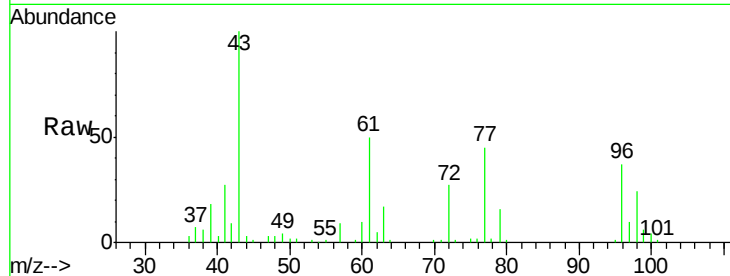
ClientSampleId :

VN0219MBS01

Tot Ion:	96	Resp:	42281
Ion	Ratio	Lower	Upper
96	100		
61	140.6	0.0	285.8
98	63.7	0.0	129.6

Manual Integrations
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2/21/2020 11:48:30 AM



#28

Bromochloromethane

Concen: 19.098 ug/l

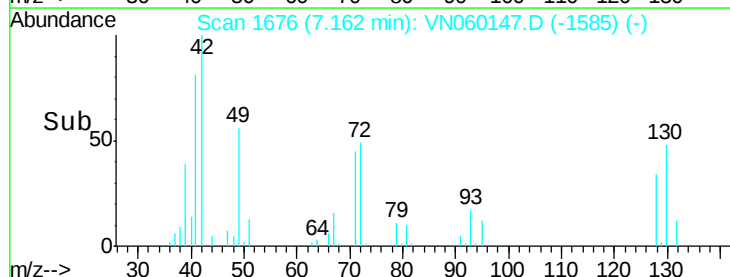
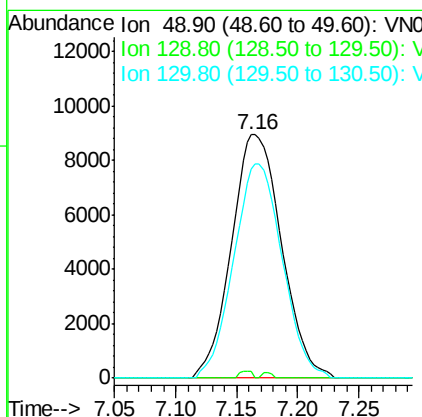
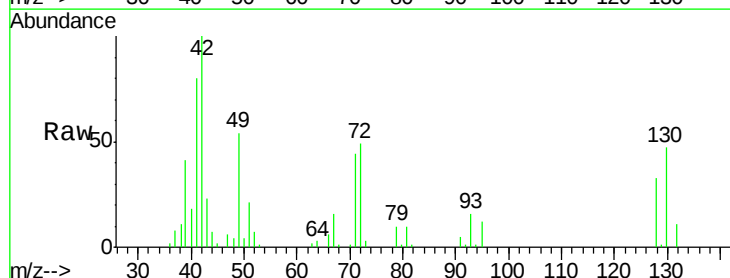
RT: 7.16 min Scan# 1676

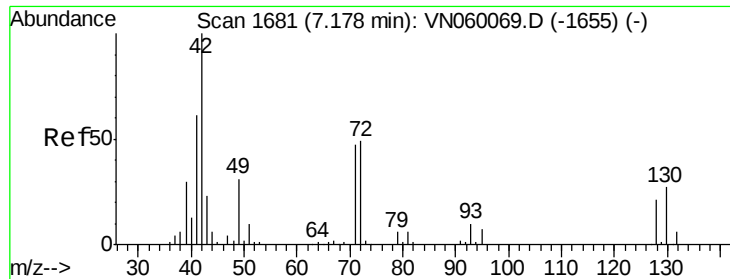
Delta R.T. -0.01 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	49	Resp:	25499
Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	2.2
130	0.0	66.8	100.2#





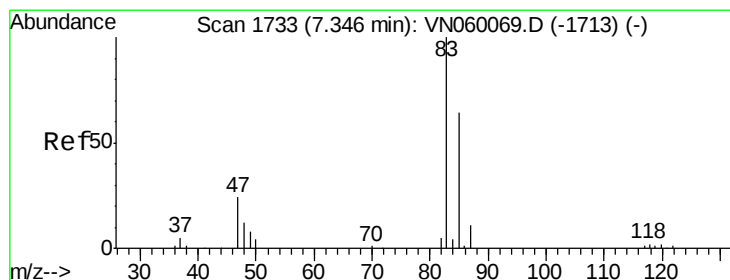
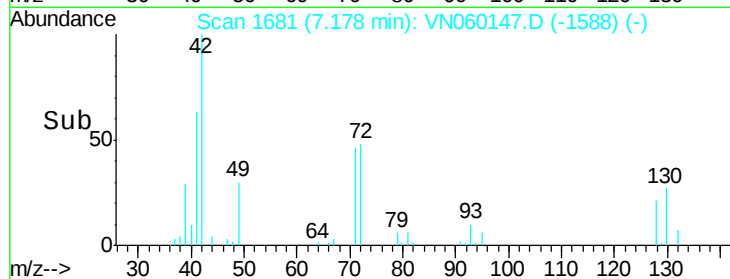
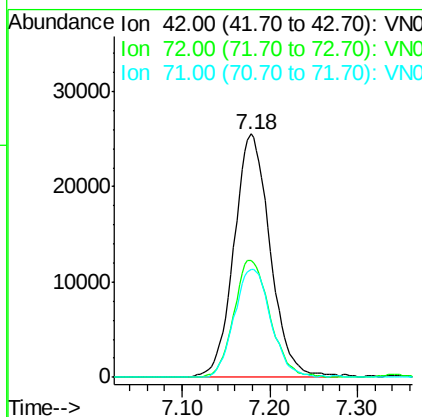
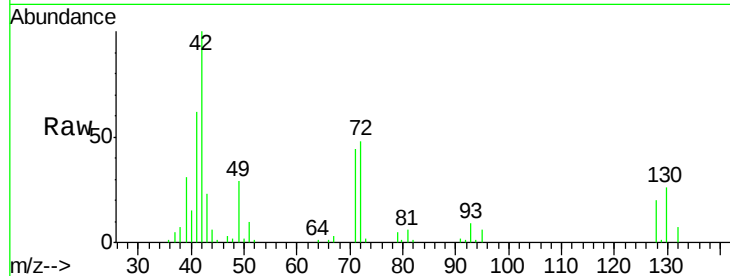
#29
Tetrahydrofuran
Concen: 97.435 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.8	38.2	57.4
71	44.9	36.6	54.8

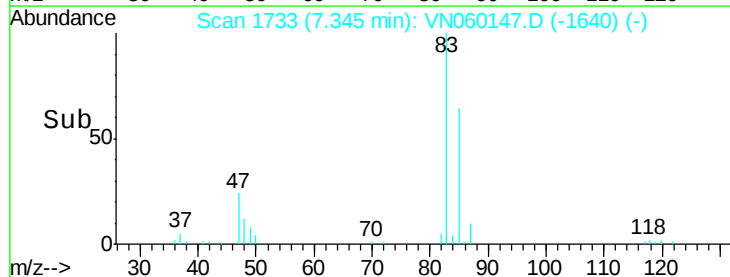
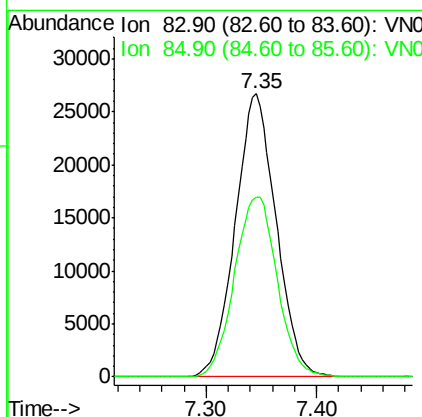
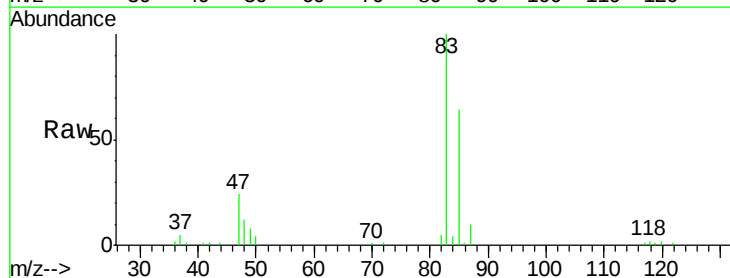
Manual Integrations
APPROVED

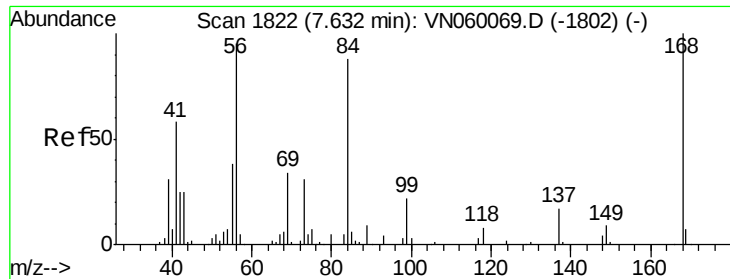
MMDadoda
2/21/2020 11:48:30 AM



#30
Chloroform
Concen: 19.225 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.4	77.0





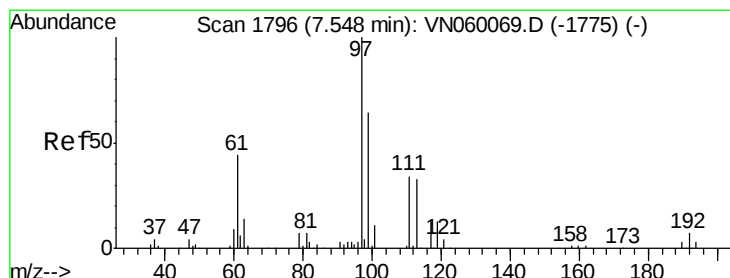
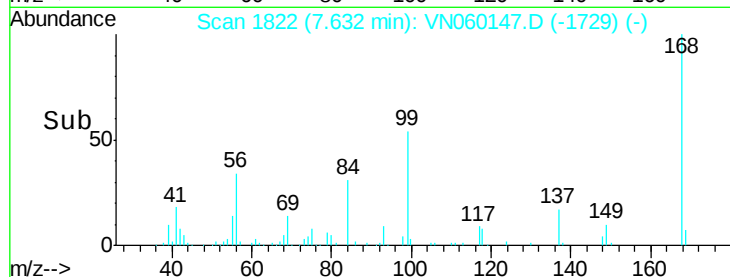
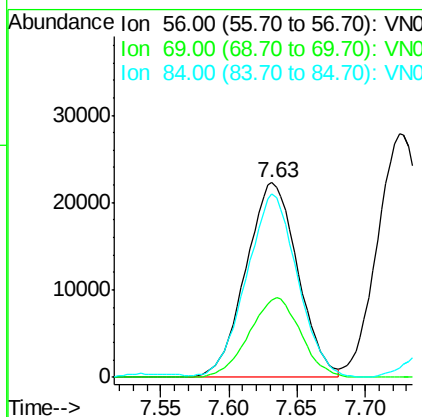
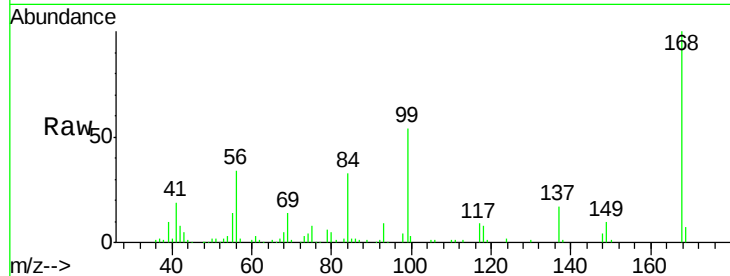
#31
Cyclohexane
Concen: 18.639 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	39.6	28.3	42.5
84	93.6	72.6	108.8

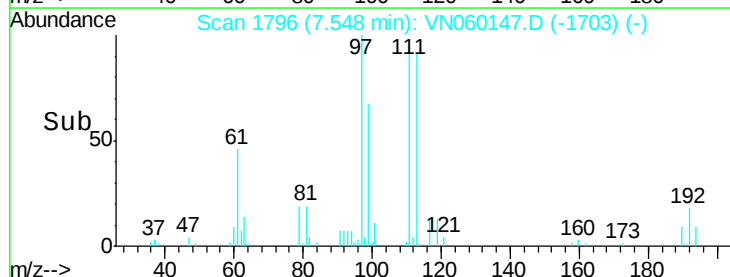
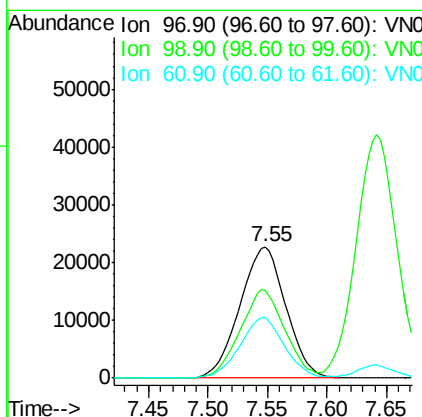
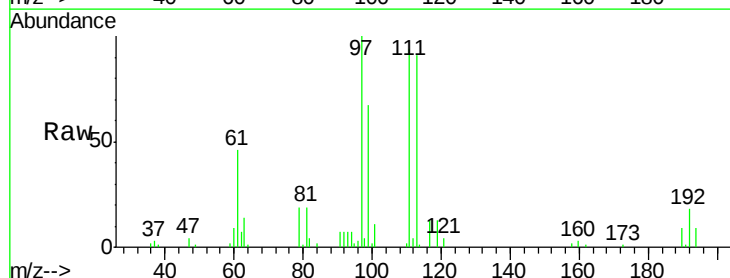
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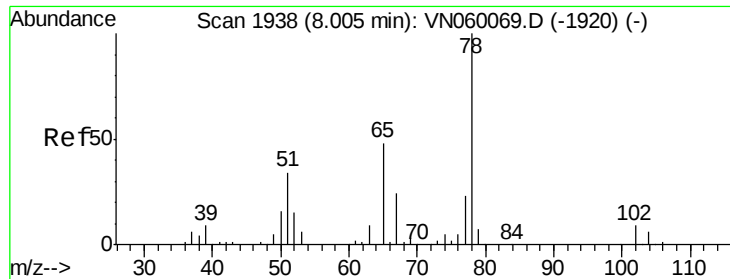
MMDadoda
2/21/2020 11:48:30 AM



#32
1,1,1-Trichloroethane
Concen: 18.693 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.4	77.0
61	44.5	34.9	52.3





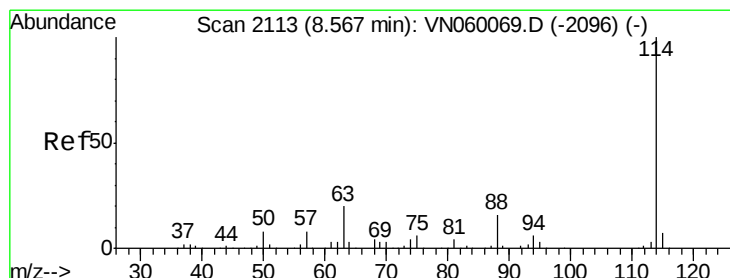
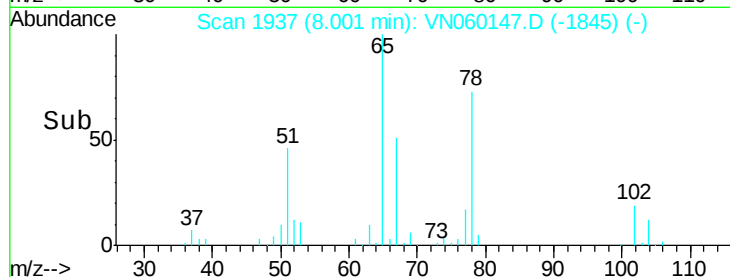
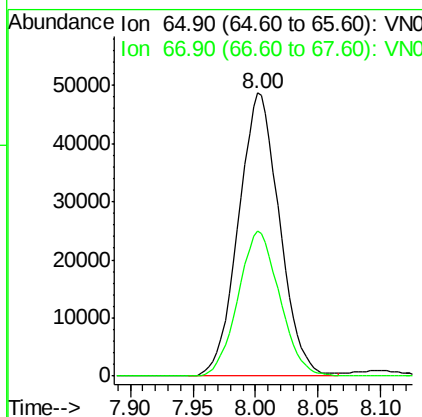
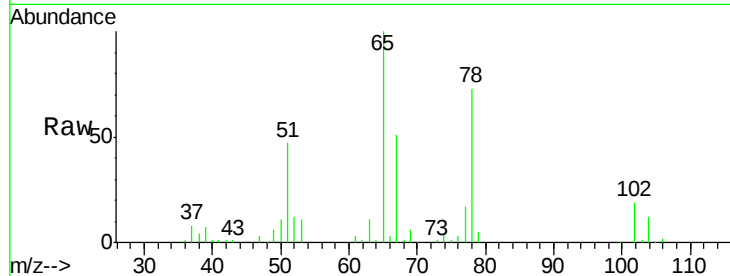
#33
 1,2-Dichloroethane-d4
 Concen: 49.558 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Instrument :
 MSVOA_N
 ClientSampled :
 VN0219MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	110854		
67	51.9	0.0	104.0	

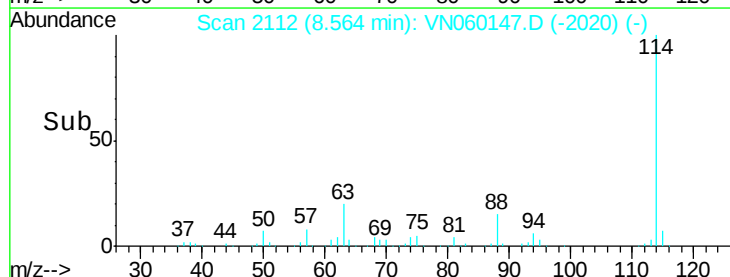
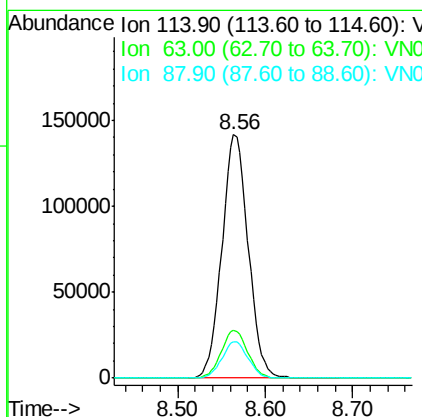
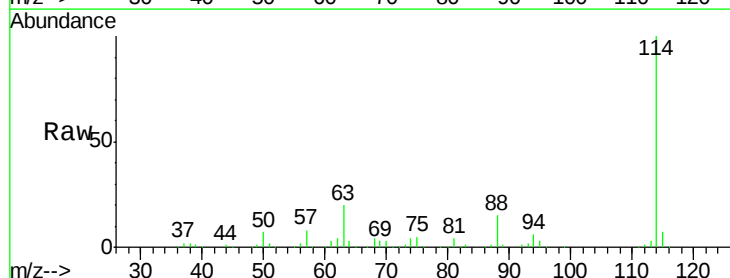
Manual Integrations
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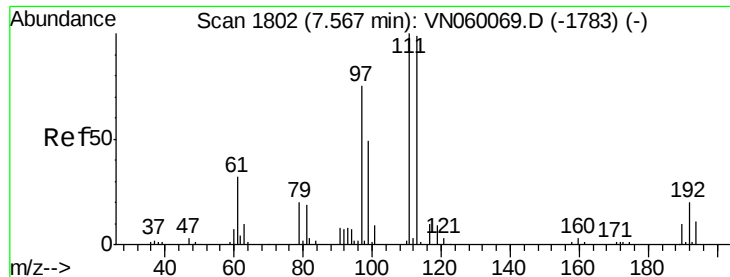
MMDadoda
 2/21/2020 11:48:30 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.56 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	295342		
63	19.6	0.0	40.0	
88	14.9	0.0	31.6	





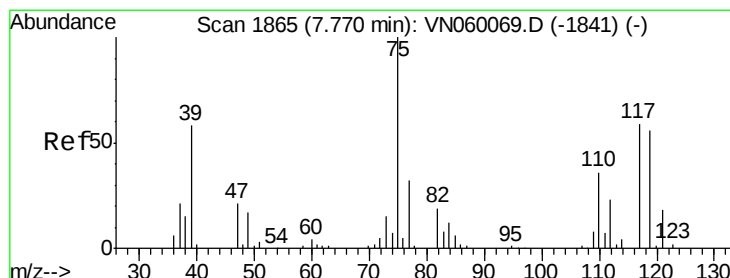
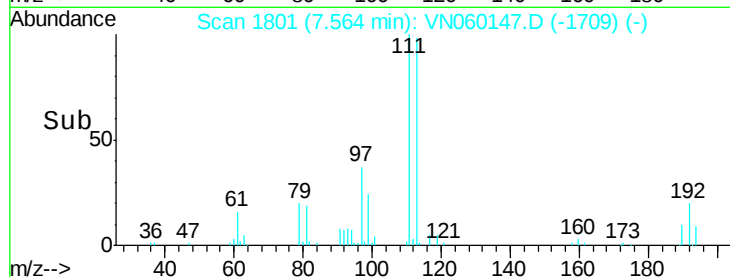
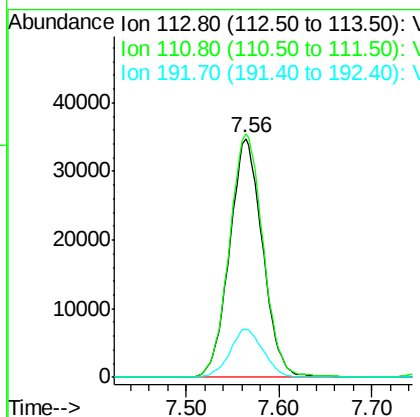
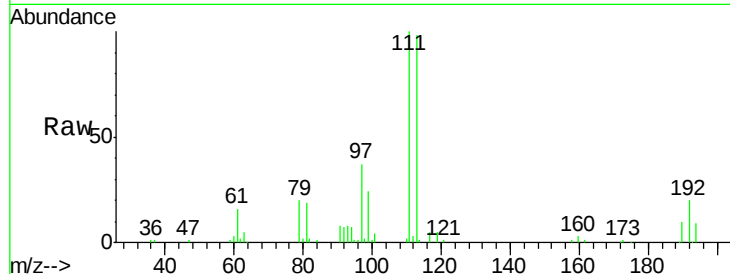
#35
 Dibromofluoromethane
 Concen: 47.407 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0219MBS01

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.0	81.4	122.2
192	20.3	16.2	24.2

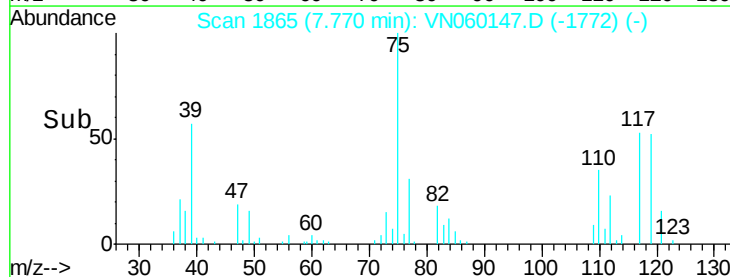
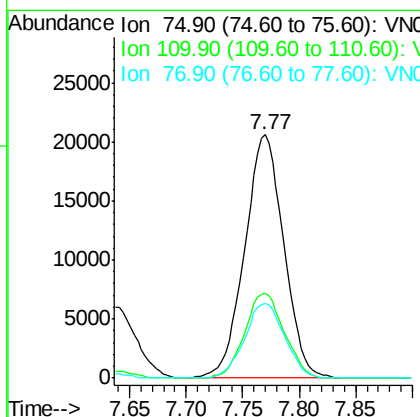
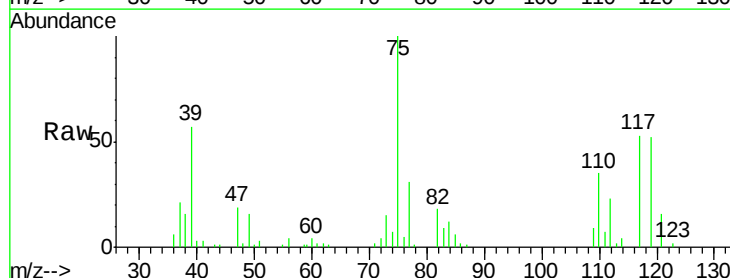
Manual Integrations
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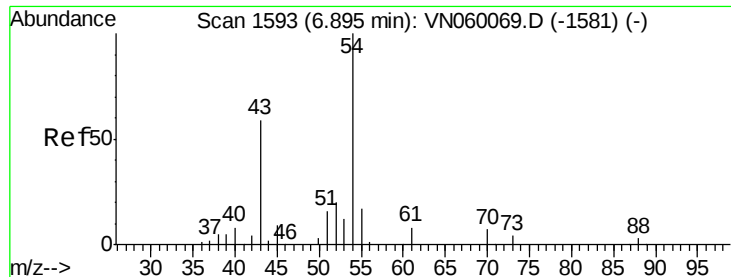
MMDadoda
 2/21/2020 11:48:30 AM



#36
 1,1-Dichloropropene
 Concen: 18.084 ug/l
 RT: 7.77 min Scan# 1865
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.2	18.1	54.3
77	31.4	25.1	37.7





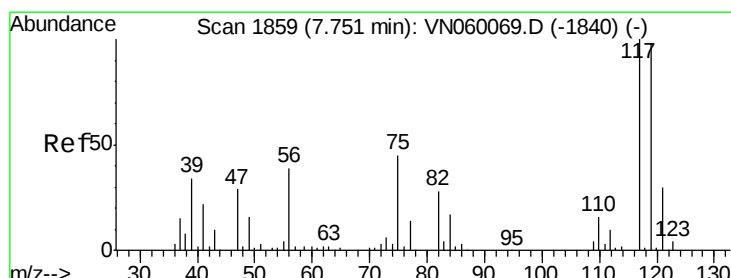
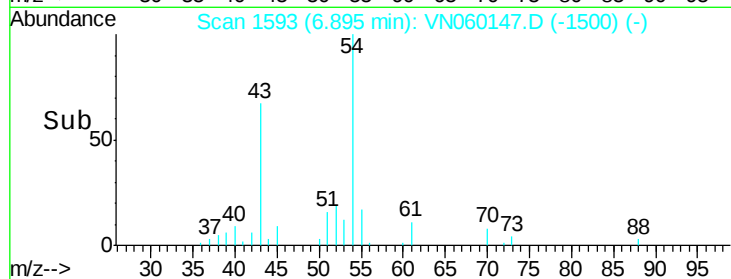
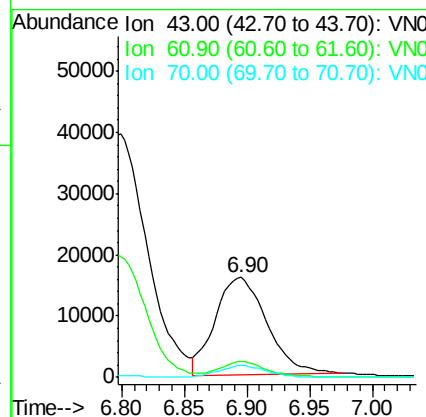
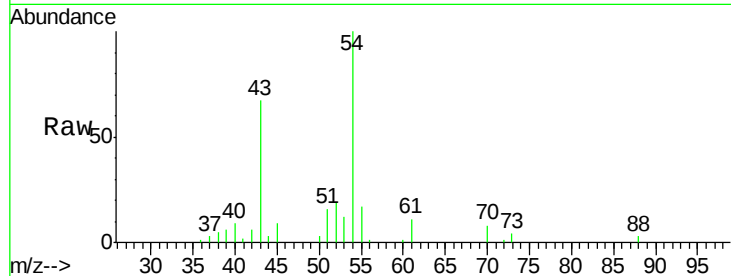
#37
Ethyl Acetate
Concen: 18.541 ug/l
RT: 6.90 min Scan# 1593
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.4	17.2
70	11.1	8.7	13.1

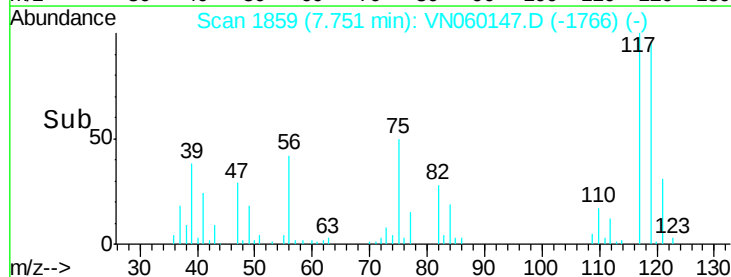
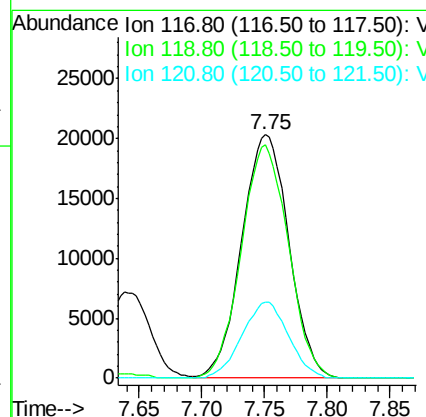
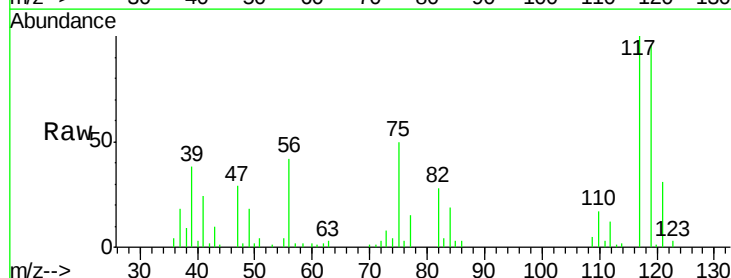
Manual Integrations
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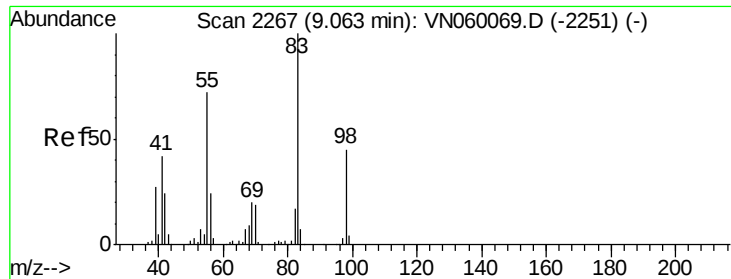
MMDadoda
2/21/2020 11:48:30 AM



#38
Carbon Tetrachloride
Concen: 17.922 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	78.2	117.4
121	31.4	24.2	36.2





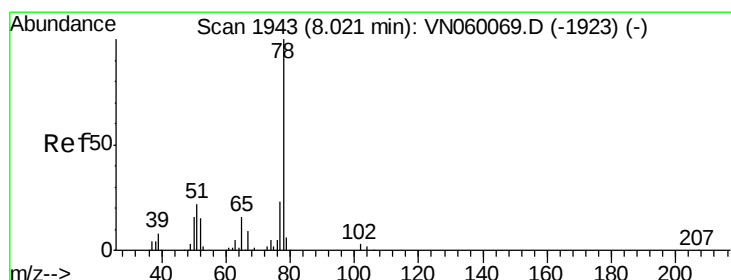
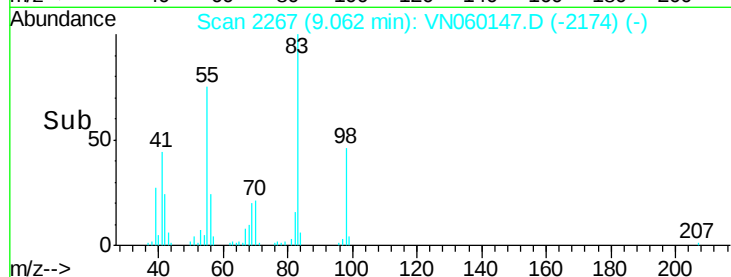
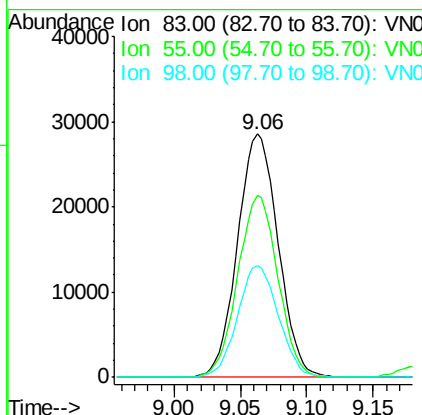
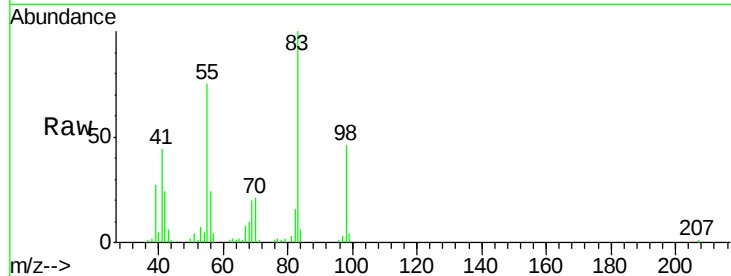
#39
Methvlcvclohexane
Concen: 17.901 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.9	57.8	86.8
98	46.1	36.4	54.6

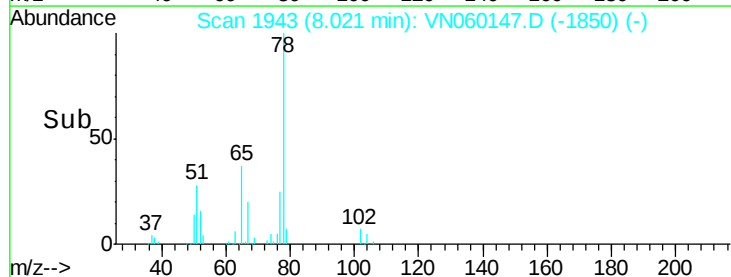
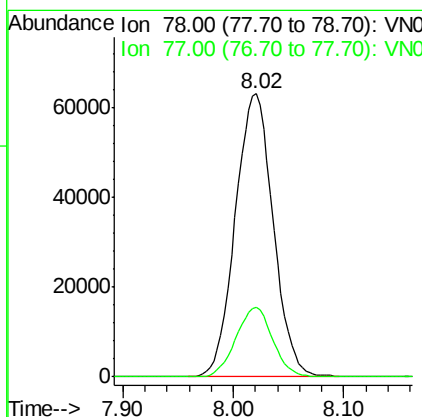
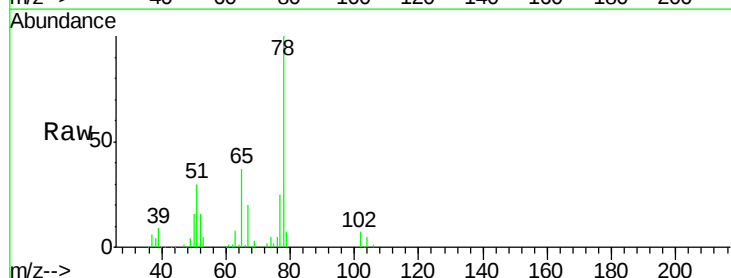
Manual Integrations
APPROVED

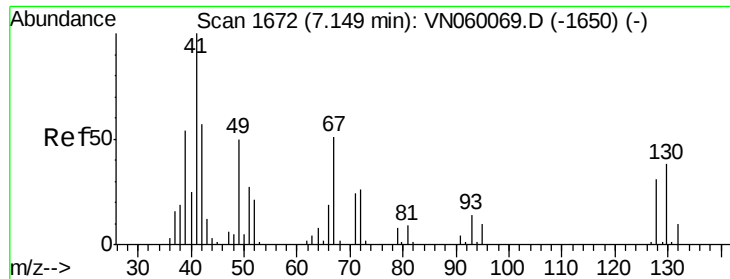
MMDadoda
2/21/2020 11:48:30 AM



#40
Benzene
Concen: 18.505 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	18.8	28.2





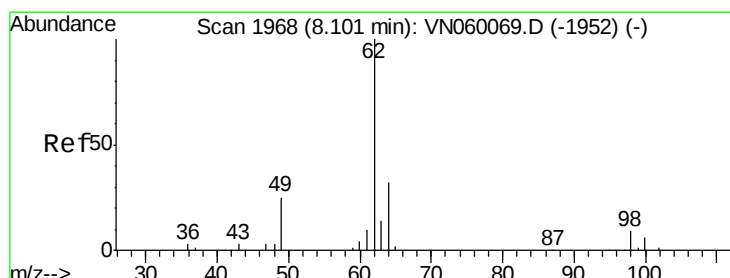
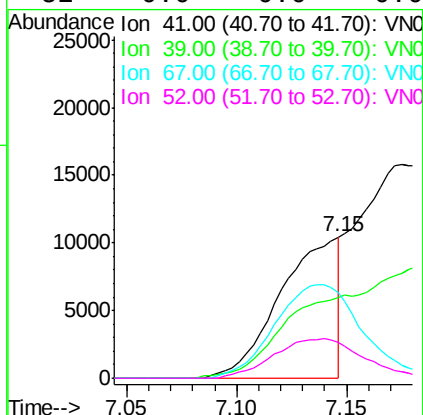
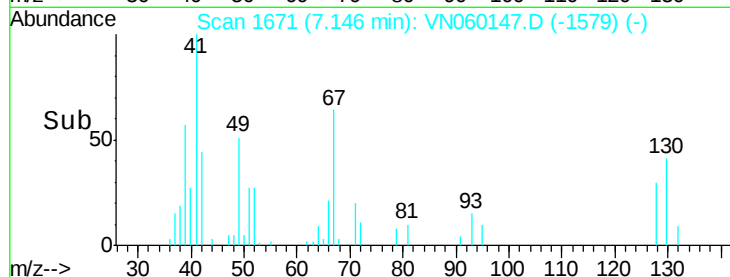
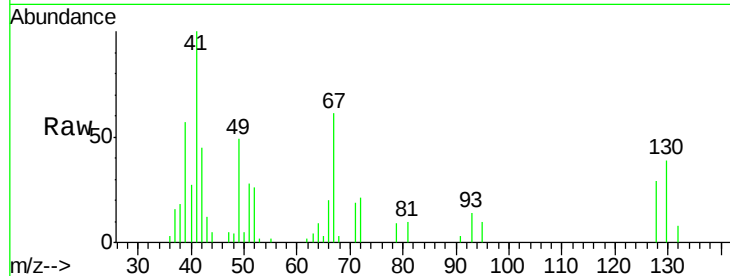
#41
Methacrylonitrile
Concen: 18.710 ug/l m
RT: 7.15 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	187.0	0.0	0.0	#
67	0.0	0.0	0.0	
52	0.0	0.0	0.0	

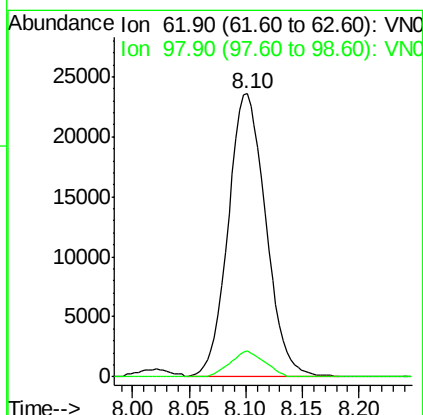
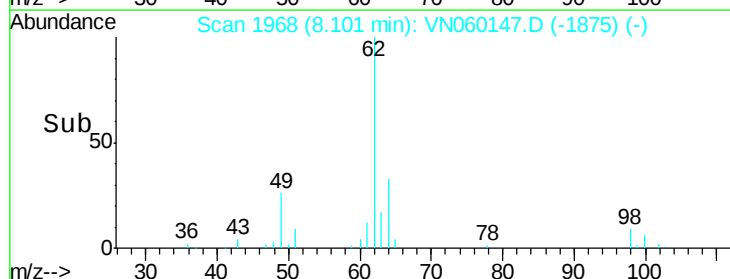
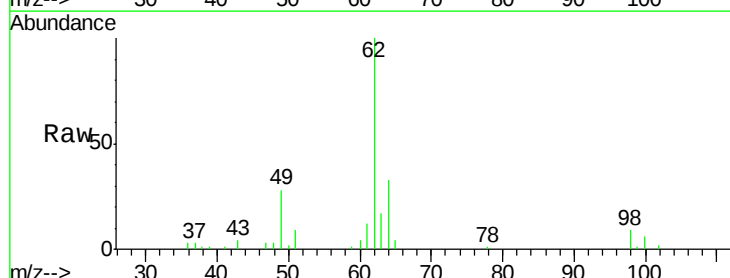
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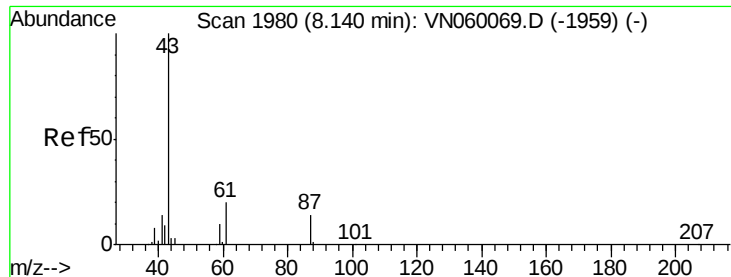
MMDadoda
2/21/2020 11:48:30 AM



#42
1,2-Dichloroethane
Concen: 19.273 ug/l
RT: 8.10 min Scan# 1968
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	8.3	0.0	18.2	





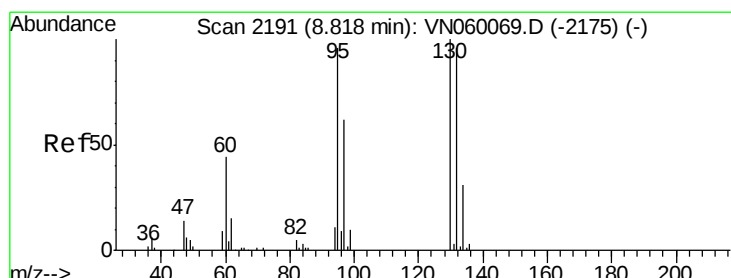
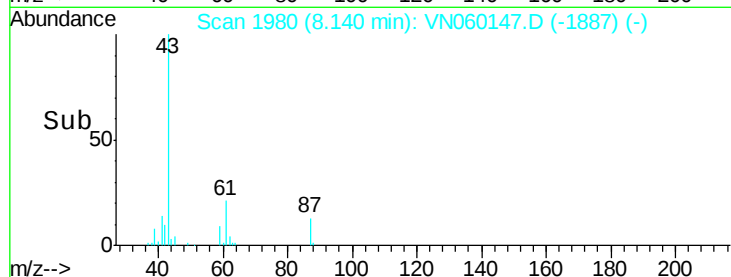
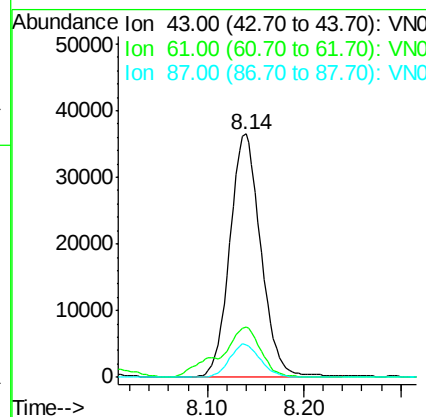
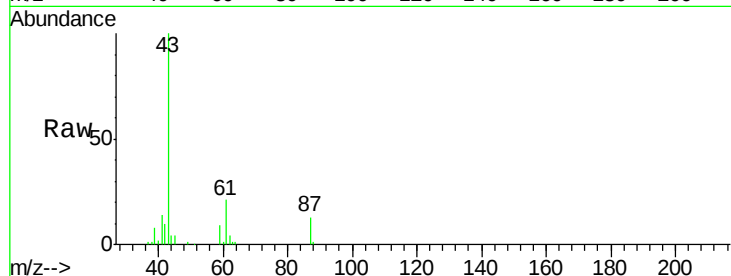
#43
Isopropyl Acetate
Concen: 19.313 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.9	21.8	32.6#
87	13.3	11.4	17.2

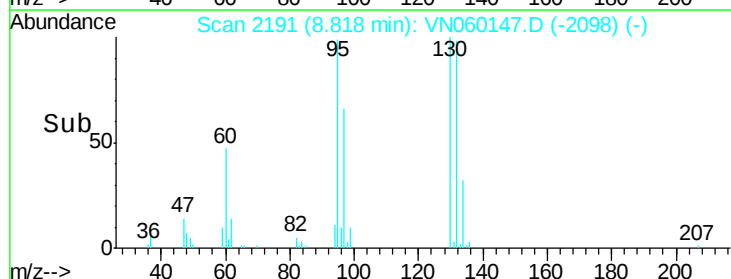
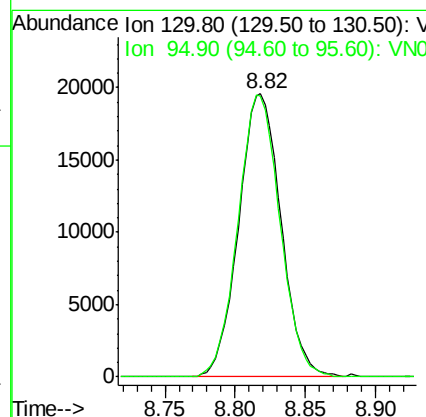
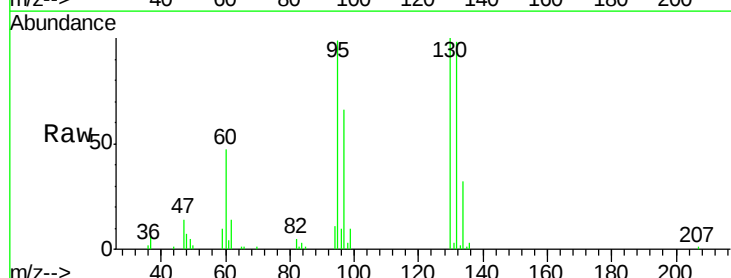
Manual Integrations
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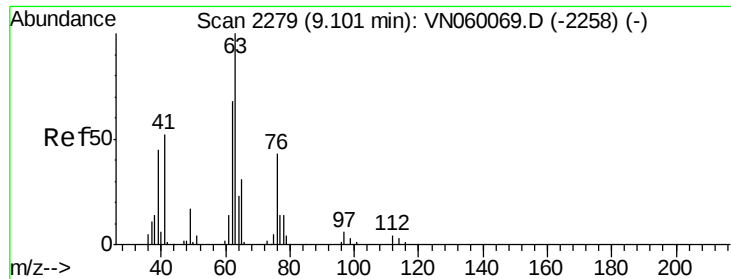
MMDadoda
2/21/2020 11:48:30 AM



#44
Trichloroethene
Concen: 18.266 ug/l
RT: 8.82 min Scan# 2191
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.4	0.0	192.4





#45

1,2-Dichloropropane

Concen: 19.215 ug/l

RT: 9.10 min Scan# 2278

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 63 Resp: 38603

Ion Ratio Lower Upper

63 100

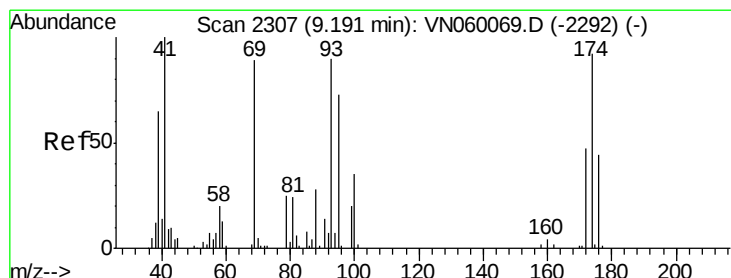
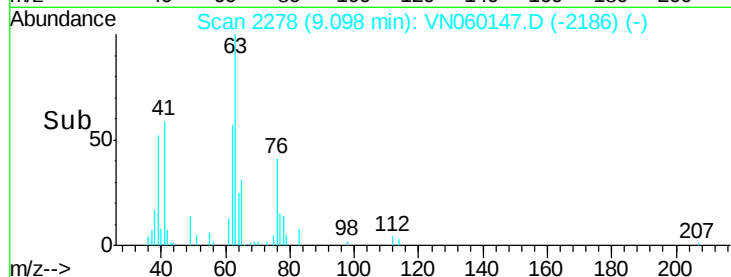
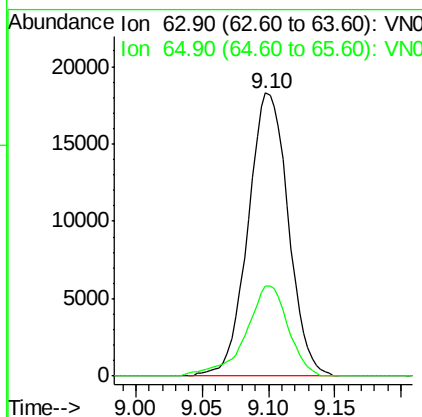
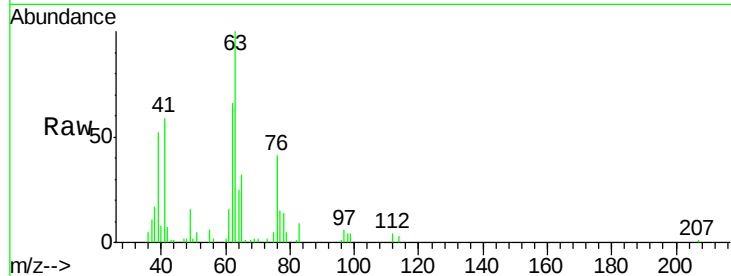
65 31.8 25.0 37.4

Manual Integrations

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#46

Dibromomethane

Concen: 19.164 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

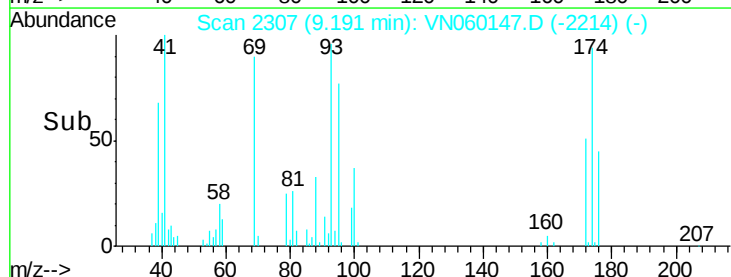
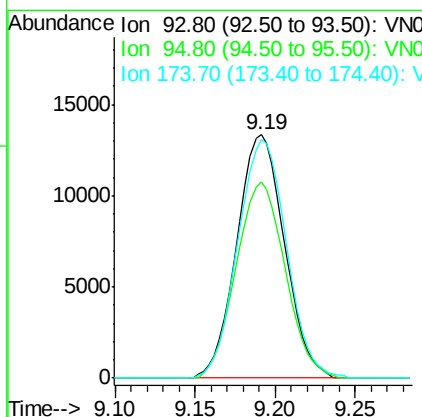
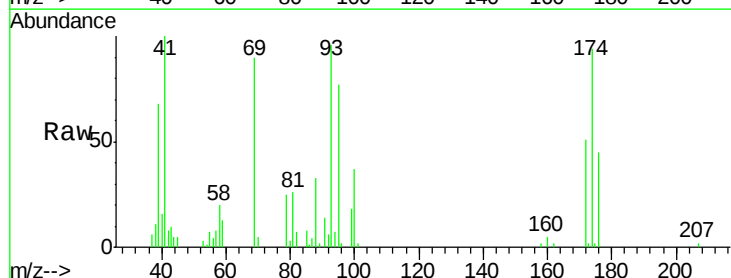
Tgt Ion: 93 Resp: 27207

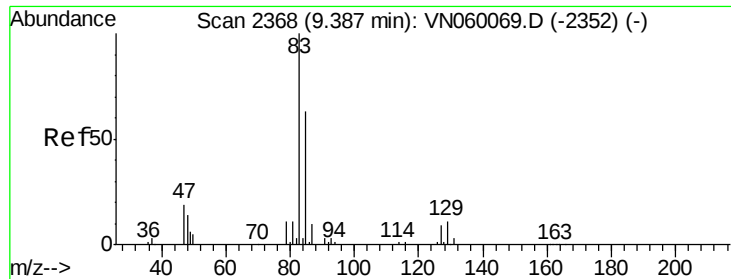
Ion Ratio Lower Upper

93 100

95 82.8 65.0 97.6

174 100.2 82.3 123.5





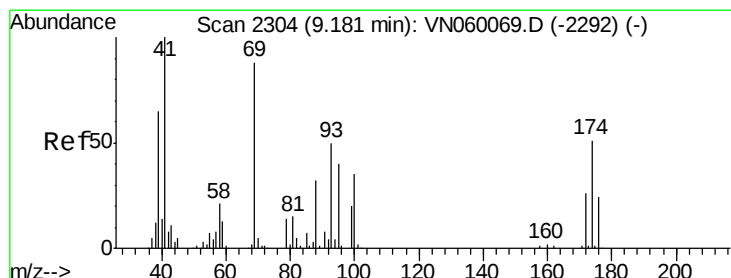
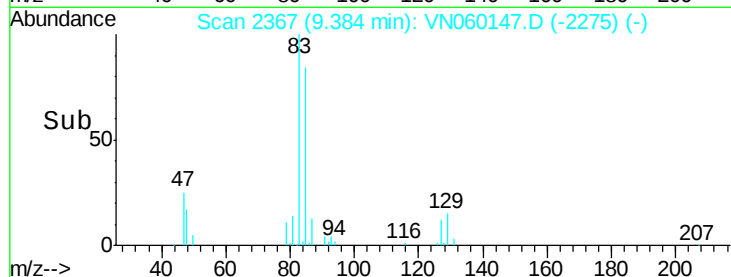
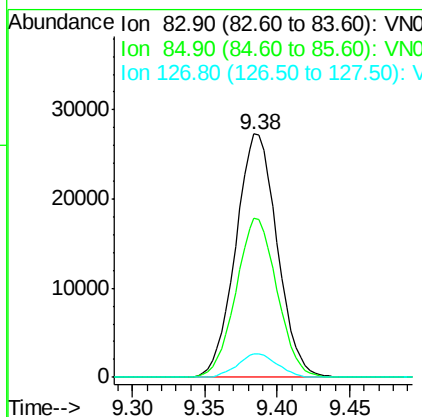
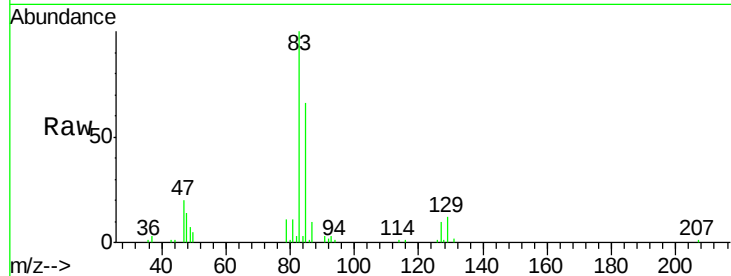
#47
Bromodichloromethane
Concen: 18.818 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.6	75.8
127	9.7	7.0	10.6

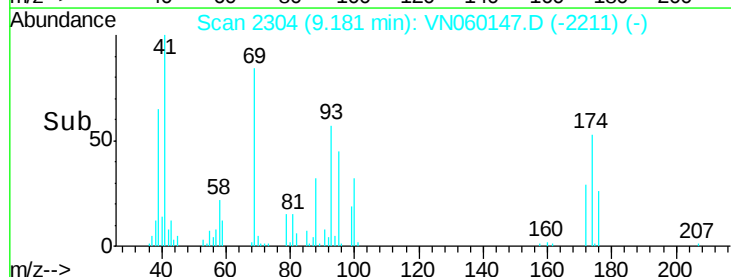
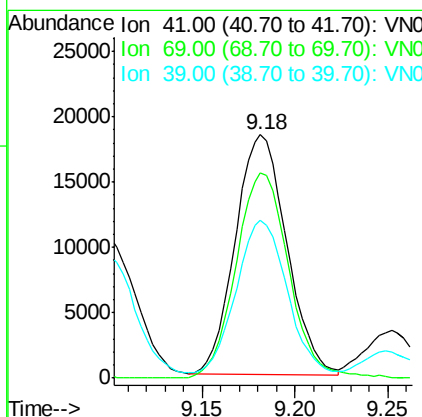
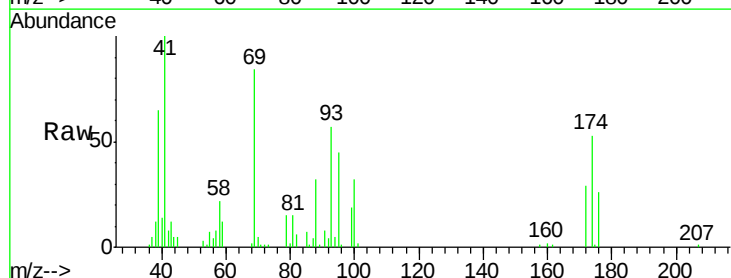
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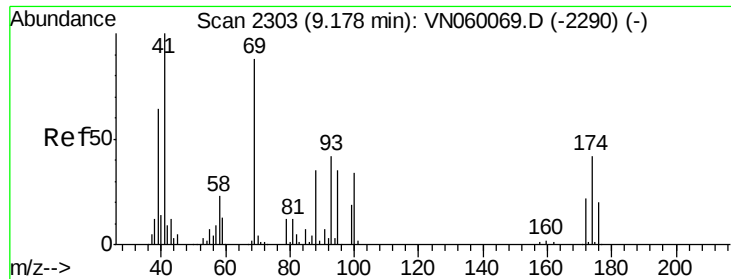
MMDadoda
2/21/2020 11:48:30 AM



#48
Methyl methacrylate
Concen: 18.500 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
41	100		
69	88.4	72.0	108.0
39	67.8	54.1	81.1





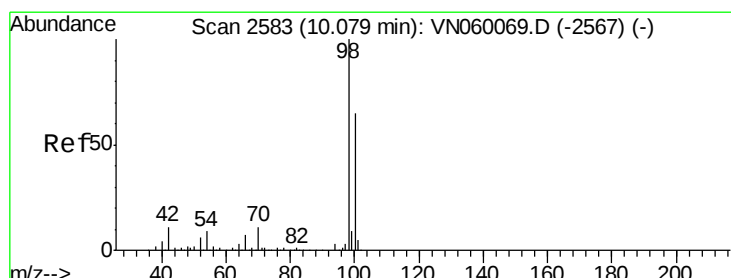
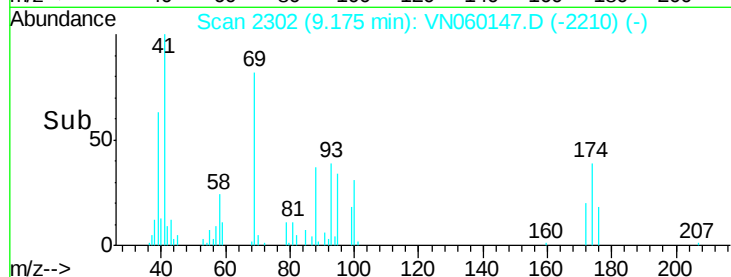
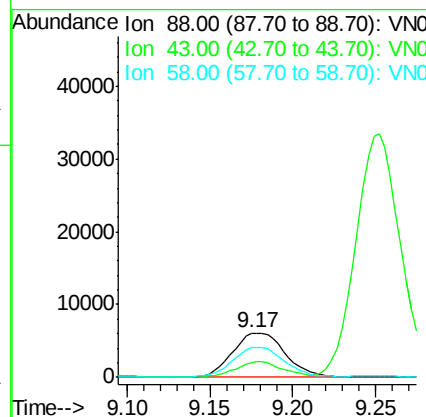
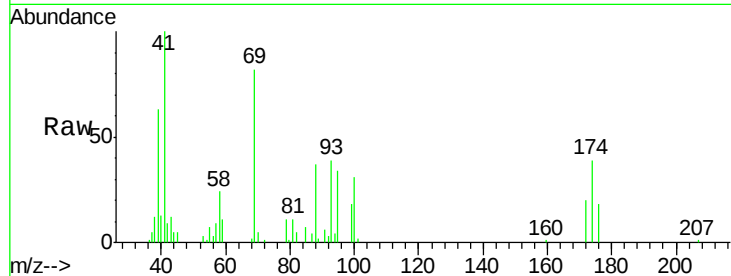
#49
1,4-Dioxane
Concen: 413.389 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	88	Resp	13393
Ion	Ratio	Lower	Upper
88	100		
43	32.2	26.2	39.2
58	66.9	53.2	79.8

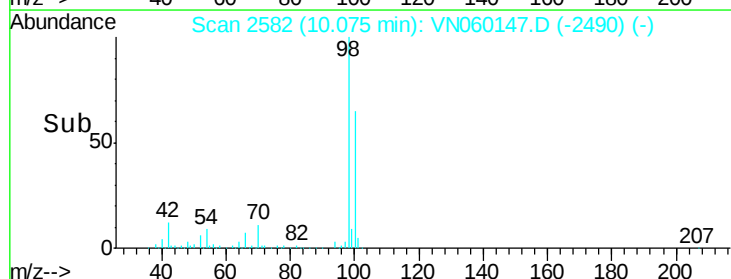
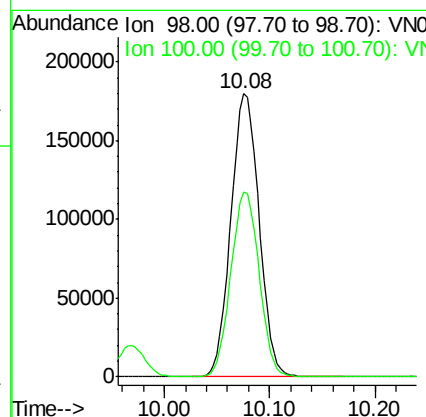
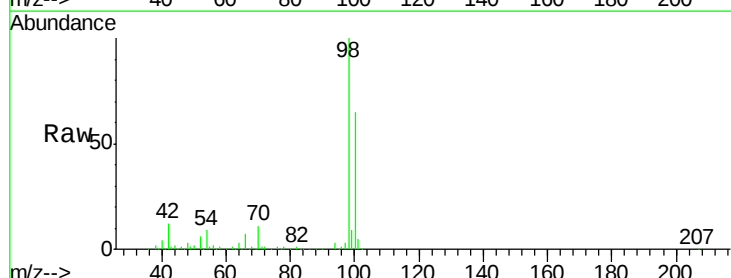
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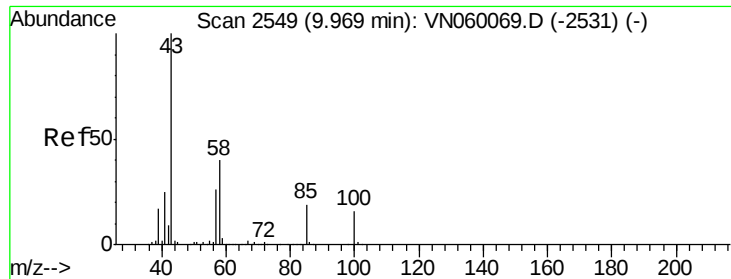
MMDadoda
2/21/2020 11:48:30 AM



#50
Toluene-d8
Concen: 46.575 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	98	Resp	332976
Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 95.279 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampled :

VN0219MBS01

Tot Ion: 43 Resp: 233074

Ion Ratio Lower Upper

43 100

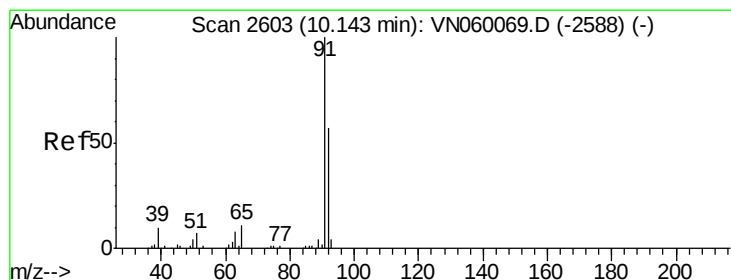
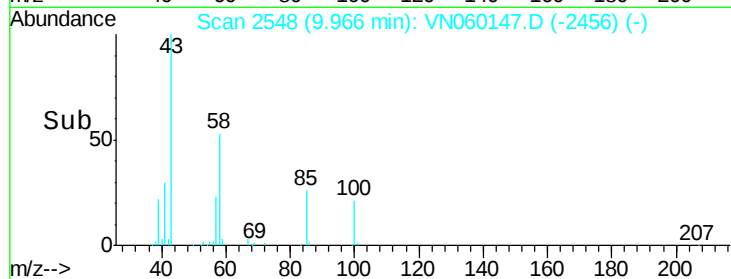
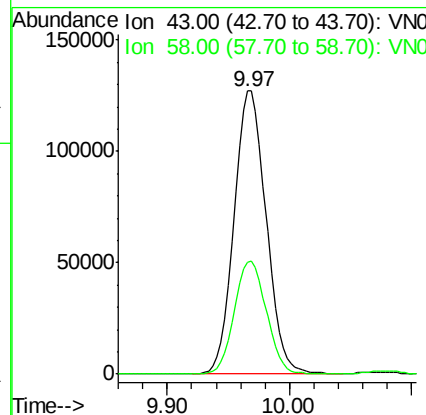
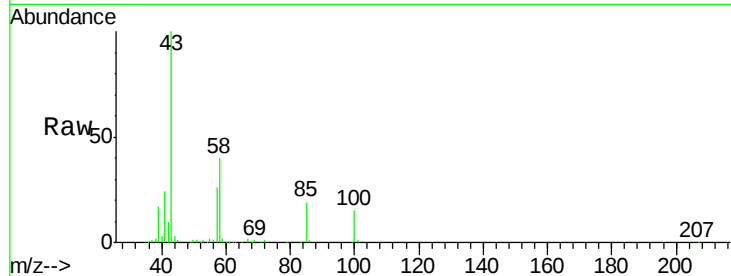
58 39.9 31.8 47.8

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#52

Toluene

Concen: 18.463 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060147.D

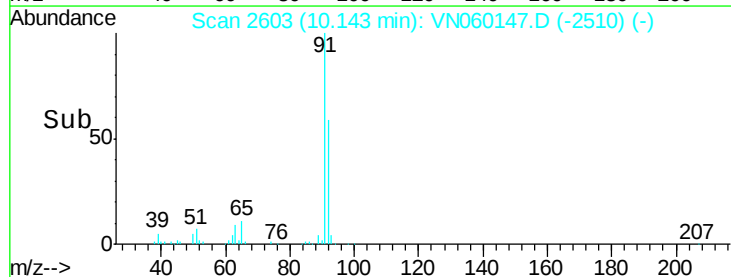
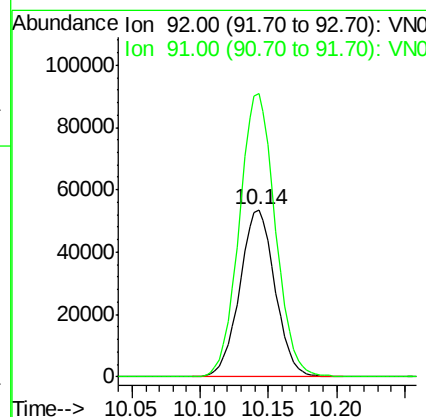
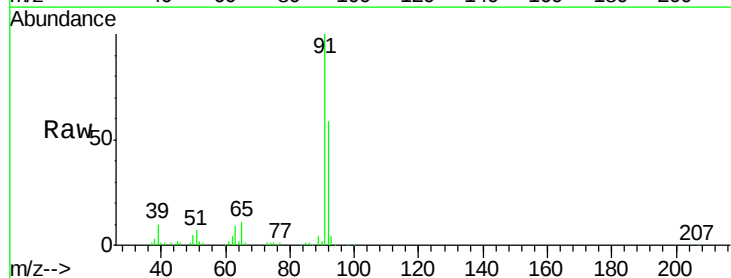
Acq: 19 Feb 2020 11:53

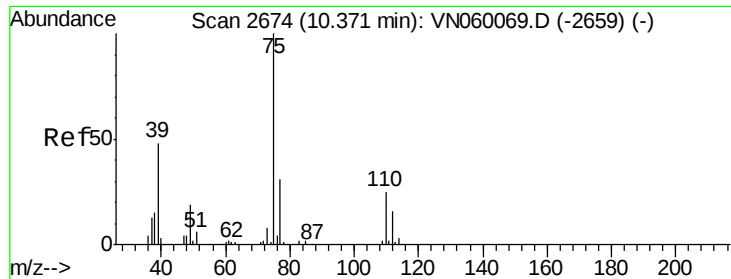
Tgt Ion: 92 Resp: 96078

Ion Ratio Lower Upper

92 100

91 173.1 140.9 211.3





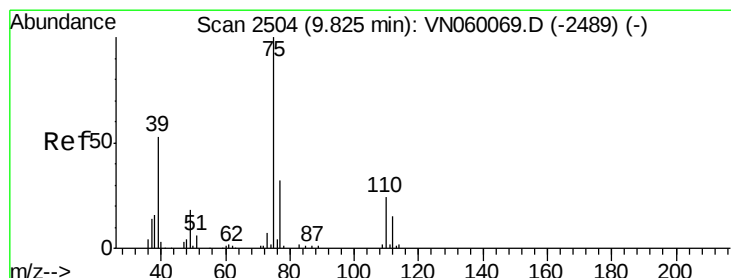
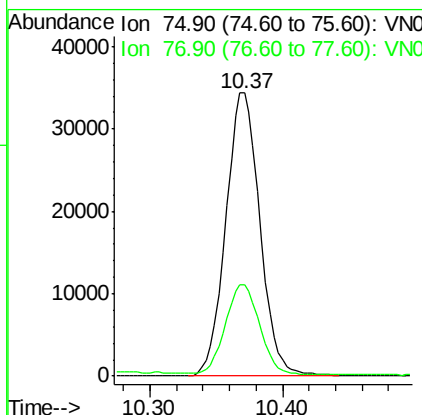
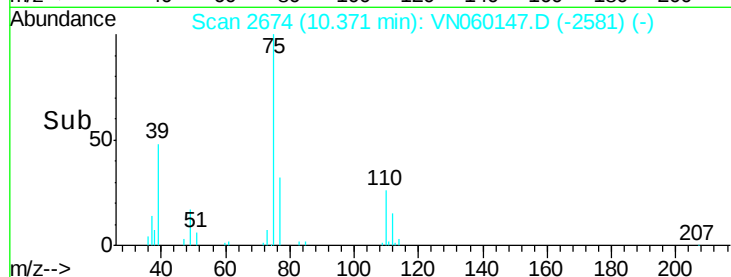
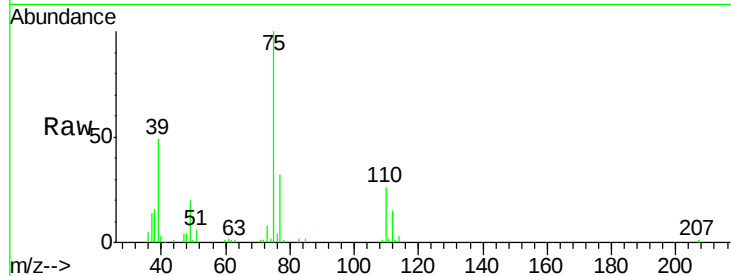
#53
t-1,3-Dichloropropene
Concen: 18.849 ug/l
RT: 10.37 min Scan# 2674
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampled :
VN0219MBS01

Tot Ion: 75 Resp: 61410
Ion Ratio Lower Upper
75 100
77 31.8 25.4 38.0

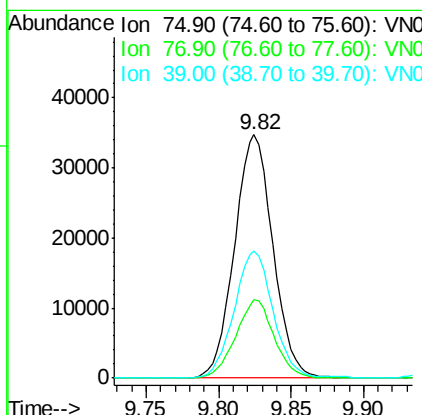
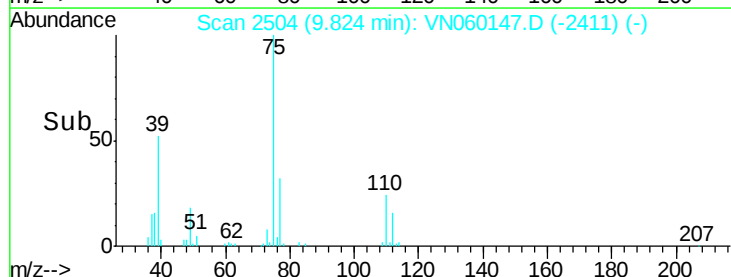
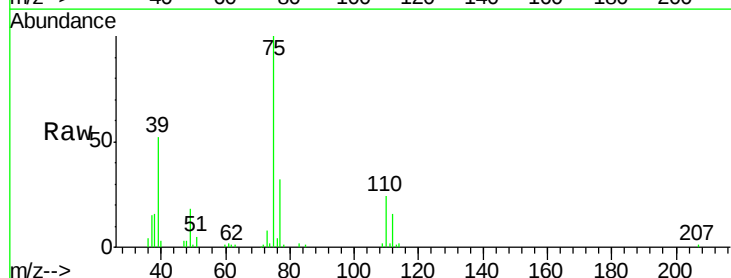
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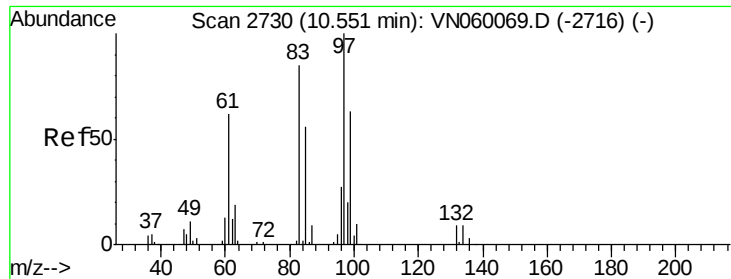
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 18.645 ug/l
RT: 9.82 min Scan# 2504
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 75 Resp: 63966
Ion Ratio Lower Upper
75 100
77 32.4 25.6 38.4
39 52.2 42.2 63.4





#55

1,1,2-Trichloroethane

Concen: 19.187 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

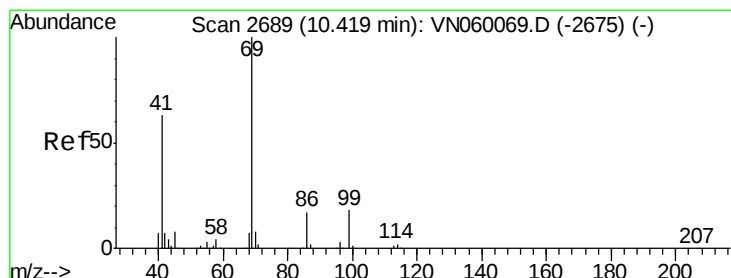
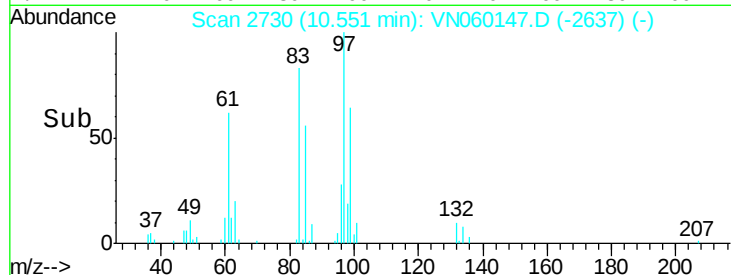
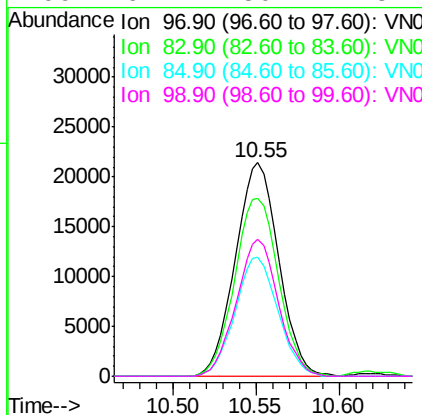
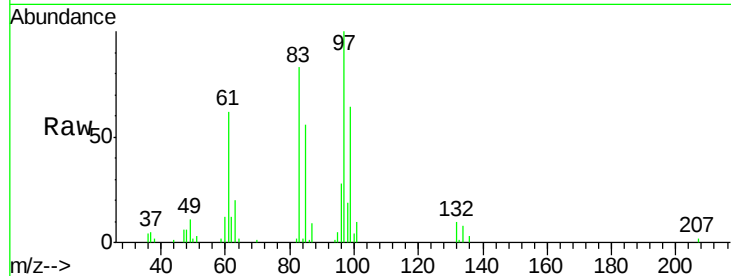
ClientSampleId :

VN0219MBS01

Tot Ion:	97	Resp:	38952
Ion	Ratio	Lower	Upper
97	100		
83	83.1	67.9	101.9
85	55.6	44.6	67.0
99	64.1	50.1	75.1

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#56

Ethyl methacrylate

Concen: 18.642 ug/l

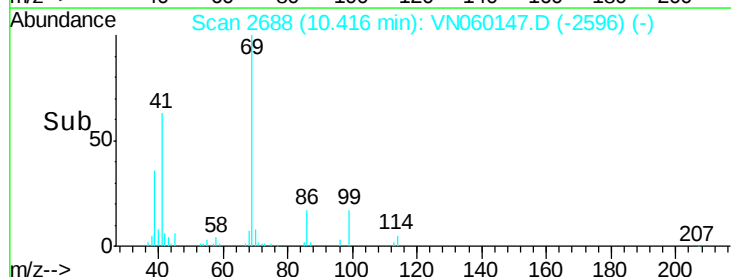
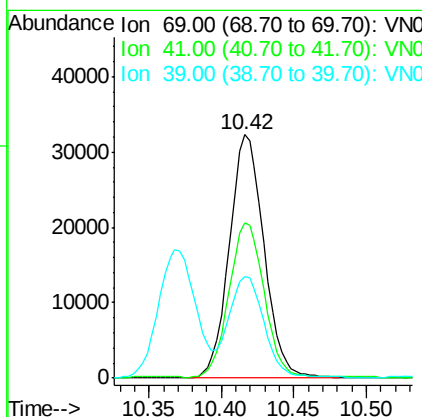
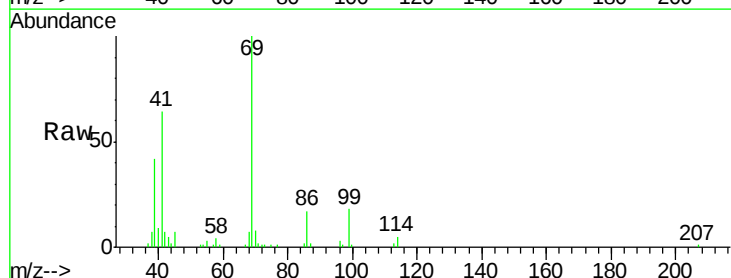
RT: 10.42 min Scan# 2688

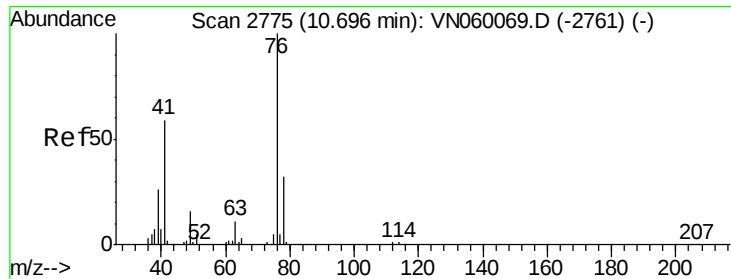
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	69	Resp:	53537
Ion	Ratio	Lower	Upper
69	100		
41	65.2	51.1	76.7
39	42.3	33.8	50.8





#57

1,3-Dichloropropane

Concen: 18.623 ug/l

RT: 10.70 min Scan# 2775

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 76 Resp: 62382

Ion Ratio Lower Upper

76 100

78 32.7

25.7

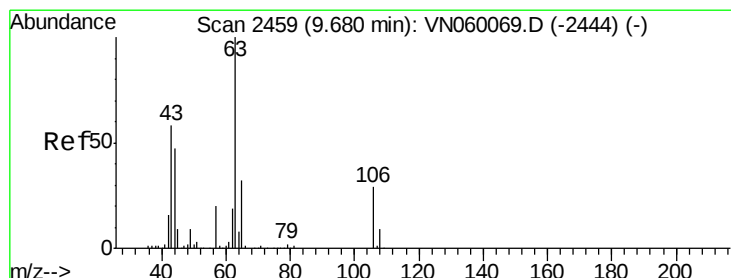
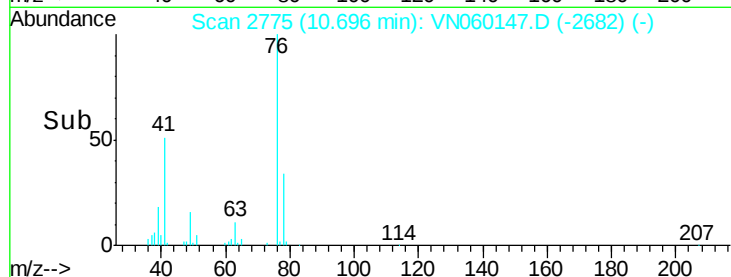
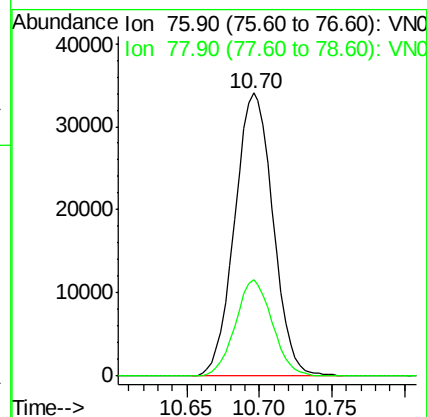
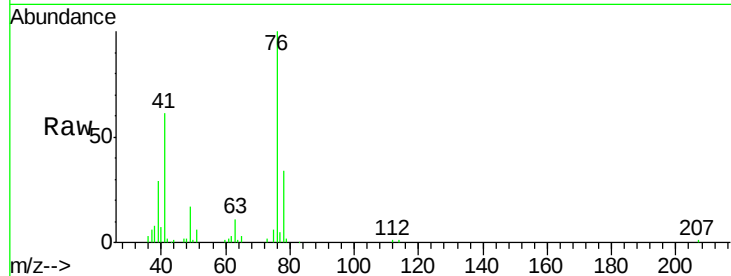
38.5

Manual Integrations

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2/21/2020 11:48:30 AM



#58

2-Chloroethyl Vinyl ether

Concen: 96.338 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion: 63 Resp: 128890

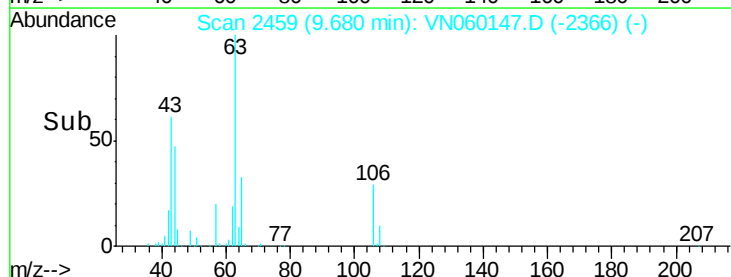
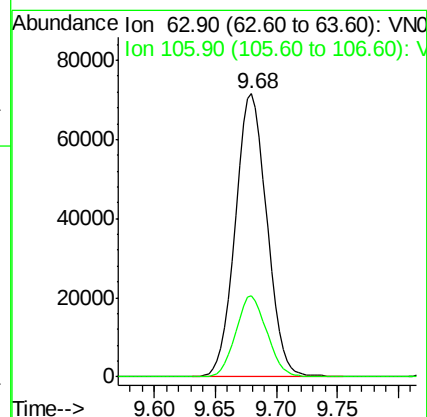
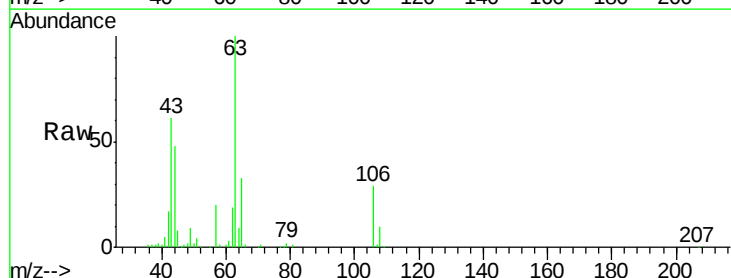
Ion Ratio Lower Upper

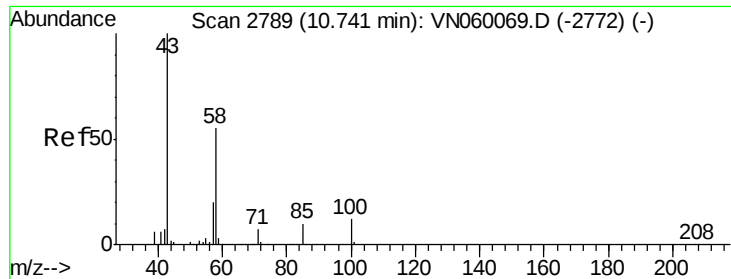
63 100

106 28.2

22.9

34.3





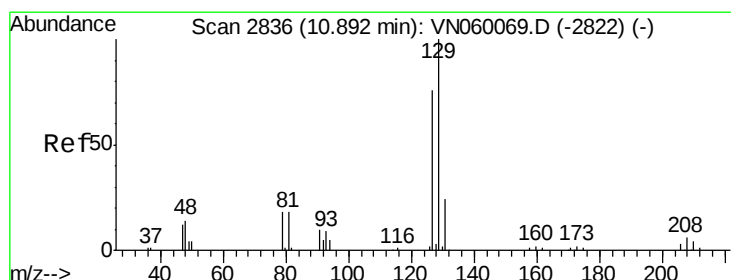
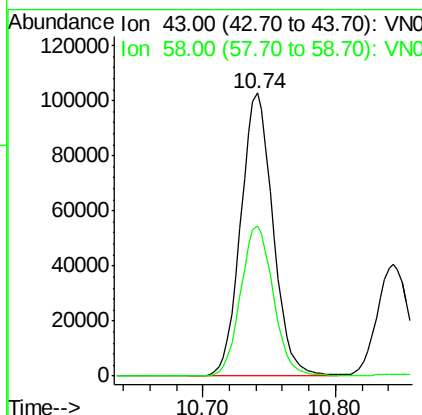
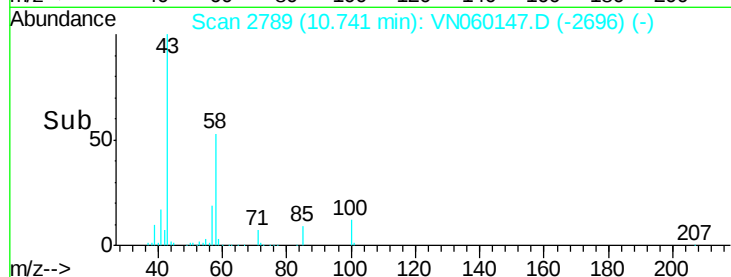
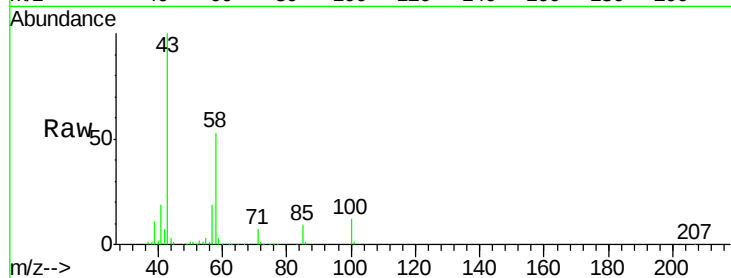
#59
2-Hexanone
Concen: 91.794 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion: 43 Resp: 173458
Ion Ratio Lower Upper
43 100
58 53.8 27.5 82.4

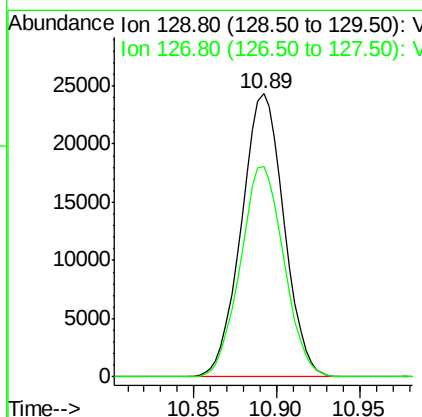
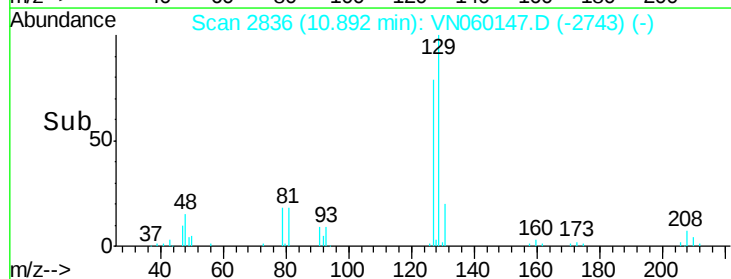
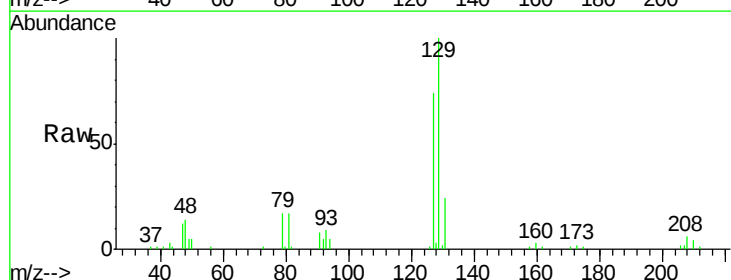
Manual Integrations
APPROVED

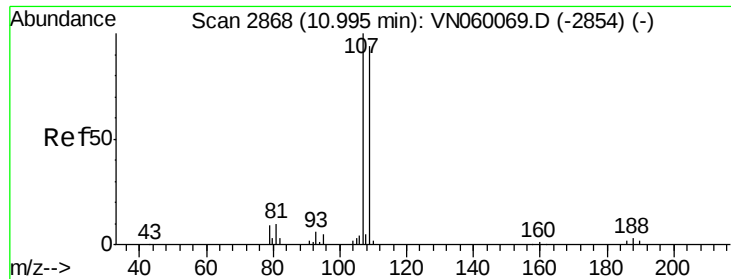
MMDadoda
2/21/2020 11:48:30 AM



#60
Dibromochloromethane
Concen: 18.667 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion: 129 Resp: 43487
Ion Ratio Lower Upper
129 100
127 76.0 38.0 114.1





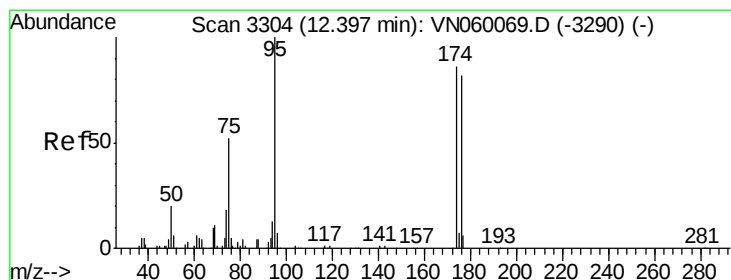
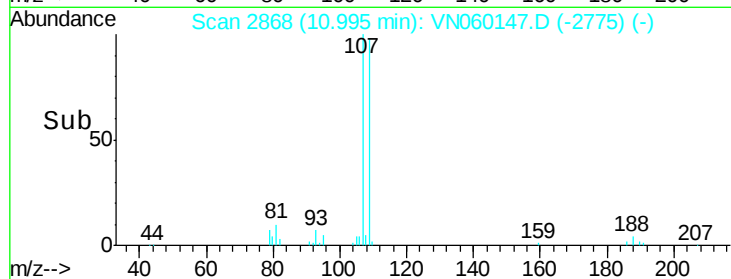
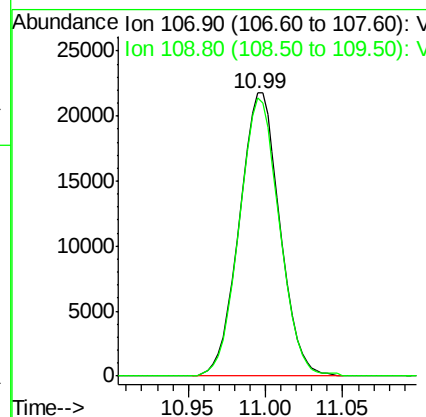
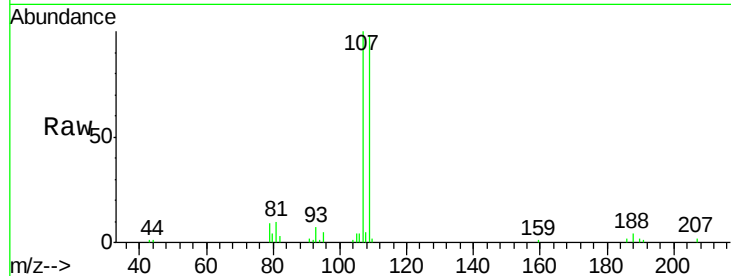
#61
 1,2-Dibromoethane
 Concen: 18.557 ug/l
 RT: 10.99 min Scan# 2868
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0219MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	97.4	75.4	113.0

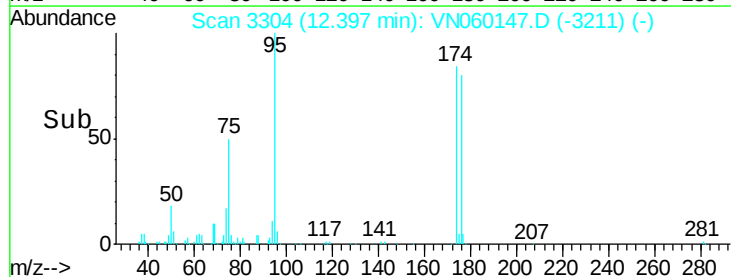
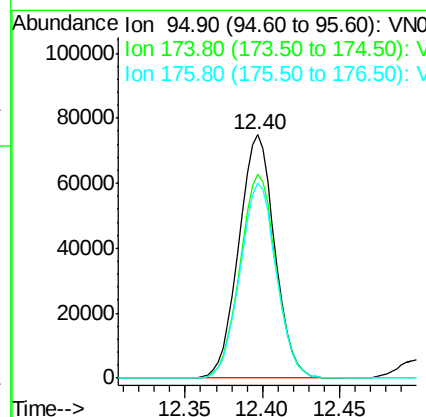
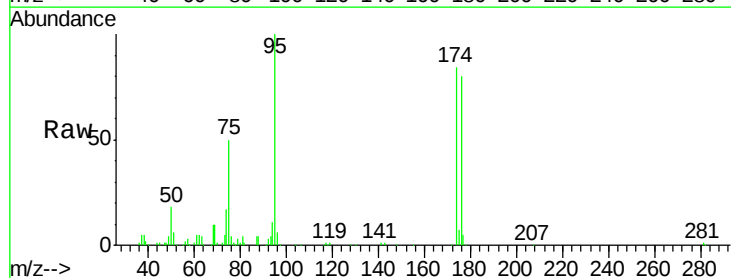
Manual Integrations
 APPROVED

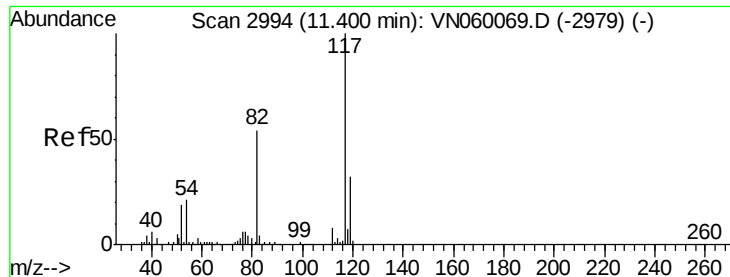
MMDadoda
 2/21/2020 11:48:30 AM



#62
 4-Bromofluorobenzene
 Concen: 45.929 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.7	0.0	169.8
176	80.9	0.0	164.8





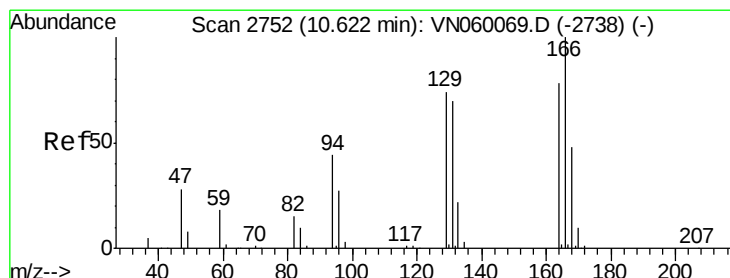
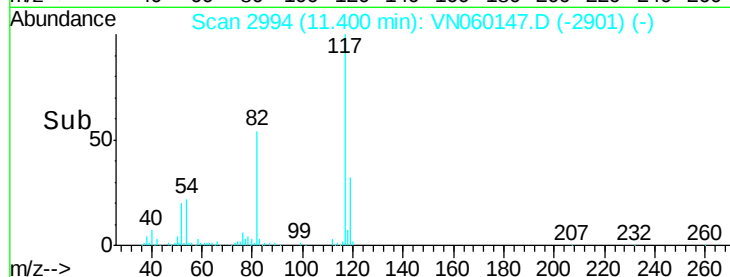
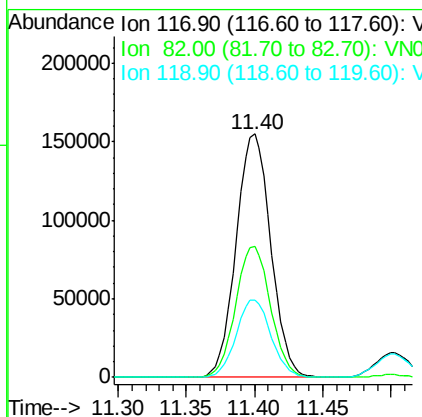
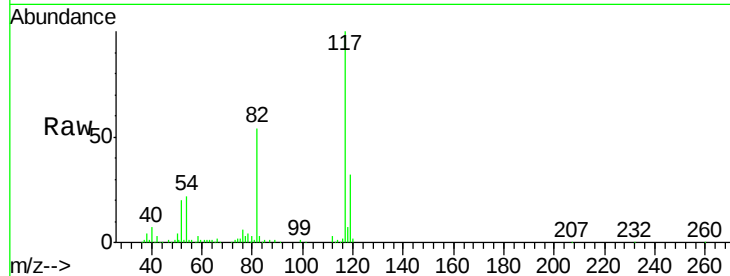
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	43.4	65.0
119	31.9	25.8	38.6

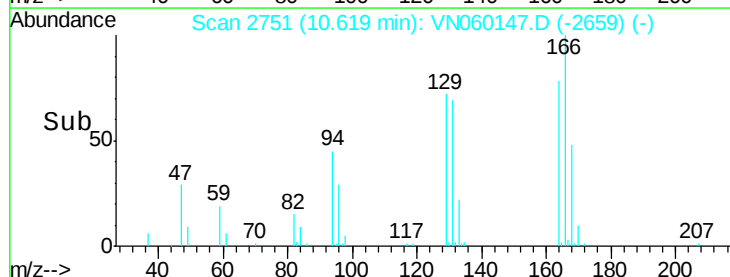
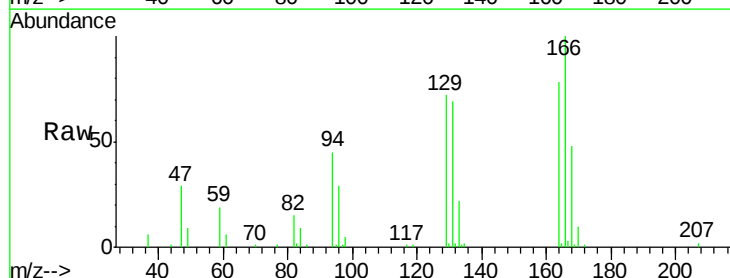
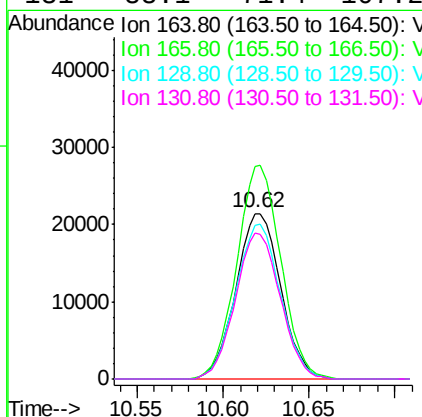
Manual Integrations
APPROVED

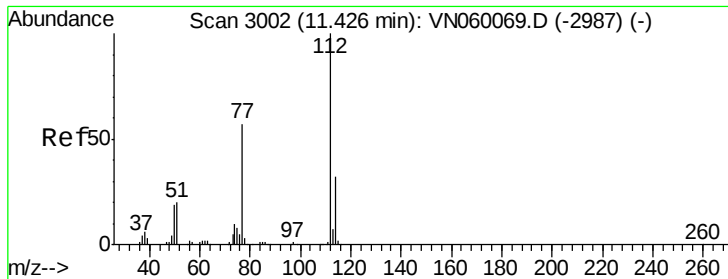
MMDadoda
2/21/2020 11:48:30 AM



#64
Tetrachloroethene
Concen: 18.606 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	101.9	152.9
129	92.7	75.4	113.0
131	88.1	71.4	107.2





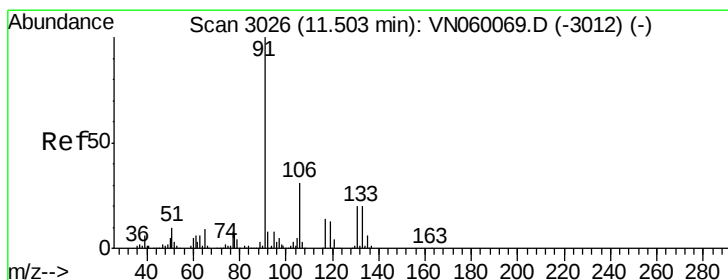
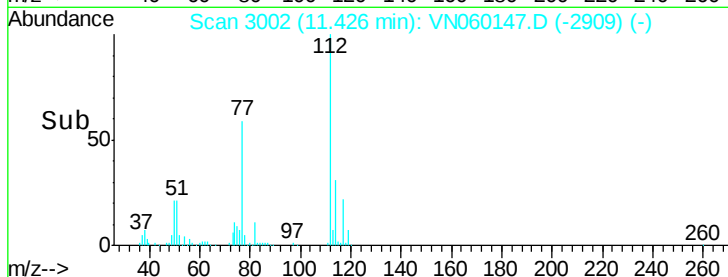
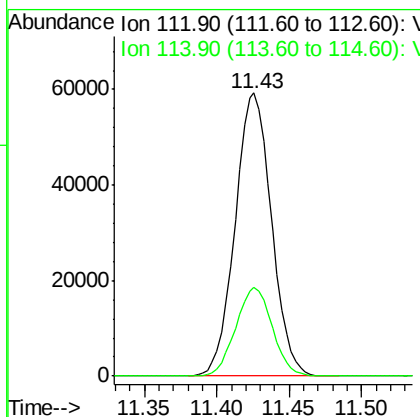
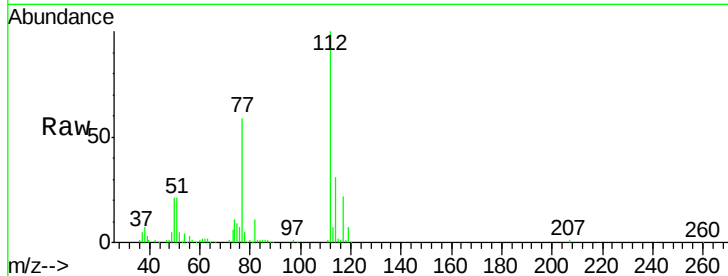
#65
Chlorobenzene
Concen: 18.489 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.4	38.0

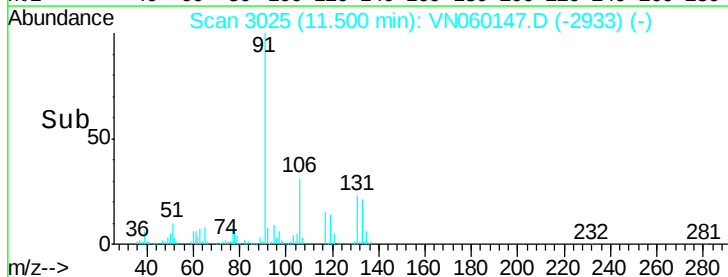
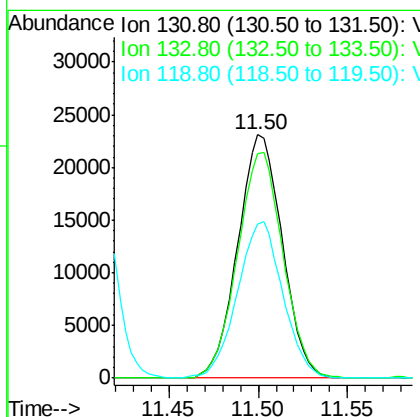
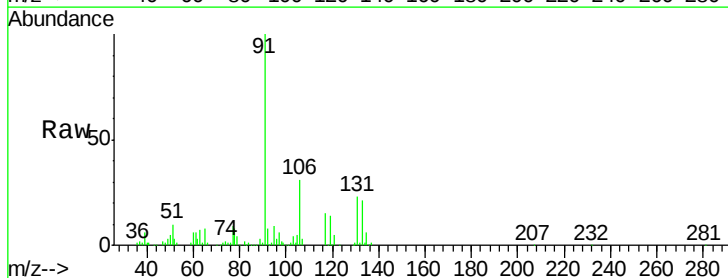
Manual Integrations
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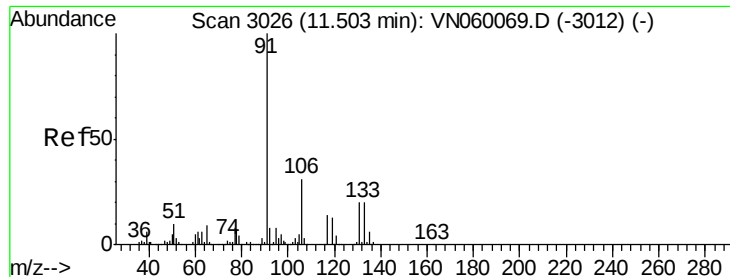
MMDadoda
2/21/2020 11:48:30 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.078 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.9	143.7
119	65.5	32.6	97.7





#67

Ethyl Benzene

Concen: 18.468 ug/l

RT: 11.50 min Scan# 3026

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 91 Resp: 185843

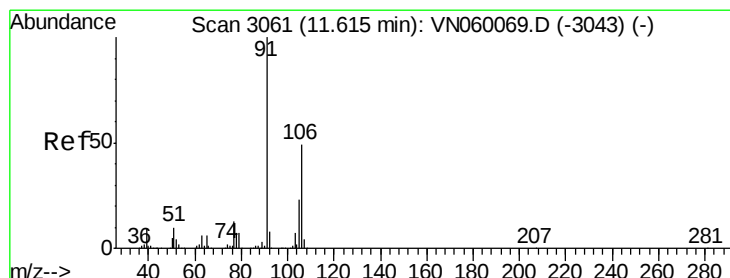
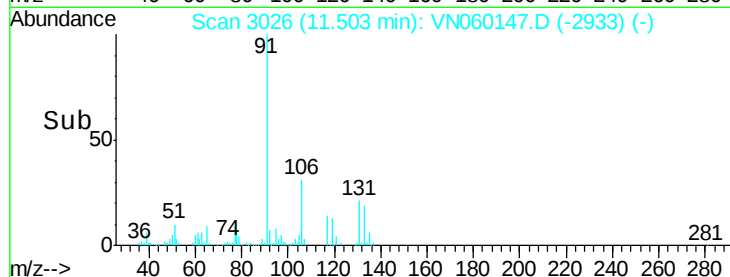
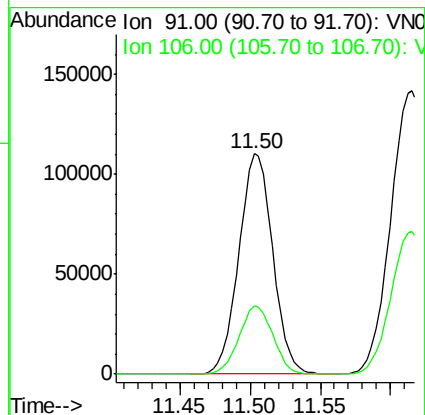
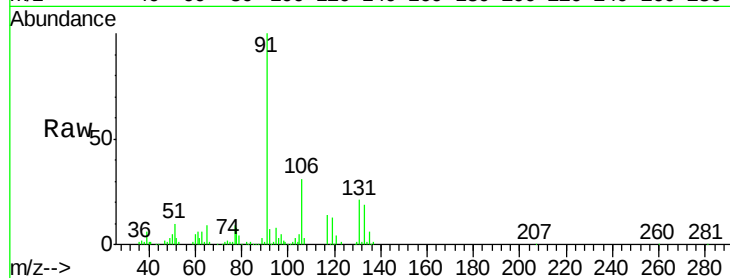
Ion Ratio Lower Upper

91 100

106 31.0 25.1 37.7

Manual Integrations
APPROVED

MMDadoda
2/21/2020 11:48:30 AM



#68

m/p-Xylenes

Concen: 36.968 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN060147.D

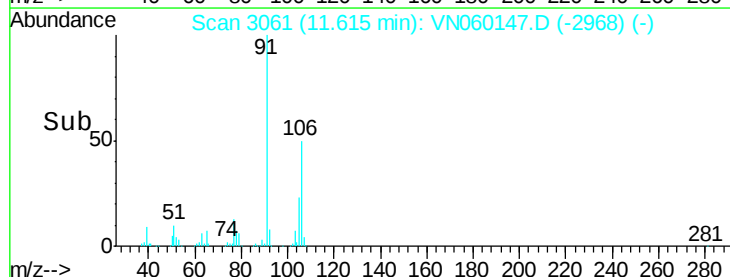
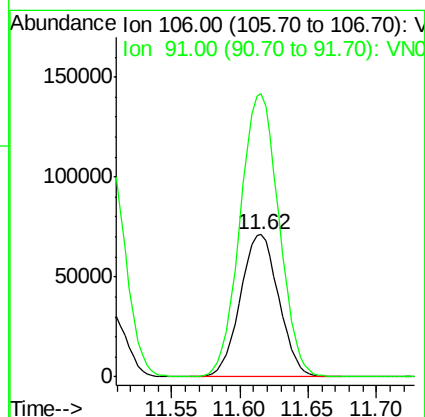
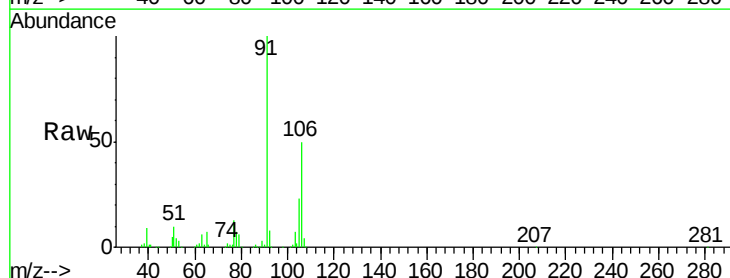
Acq: 19 Feb 2020 11:53

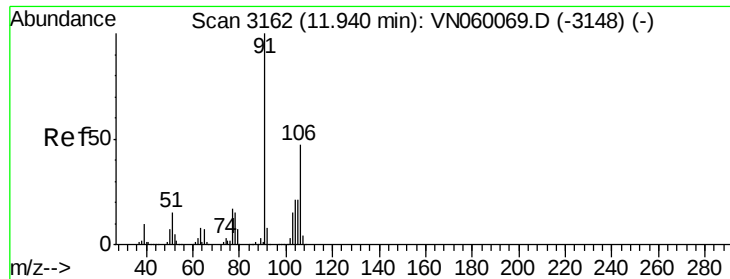
Tgt Ion: 106 Resp: 139624

Ion Ratio Lower Upper

106 100

91 200.1 162.7 244.1





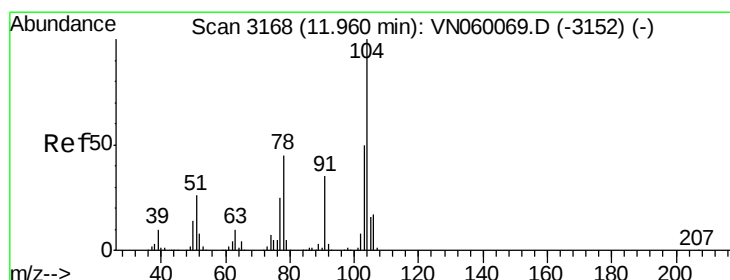
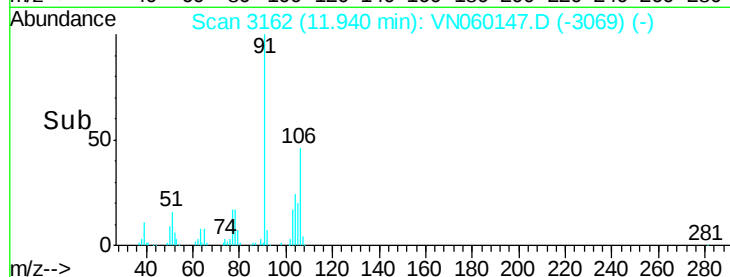
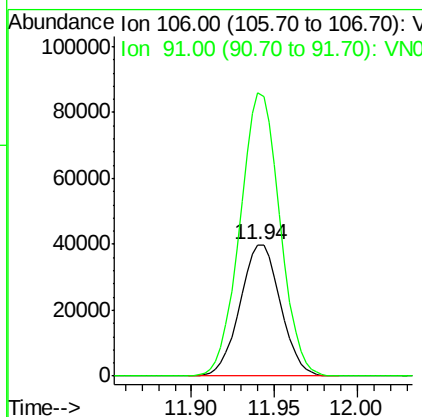
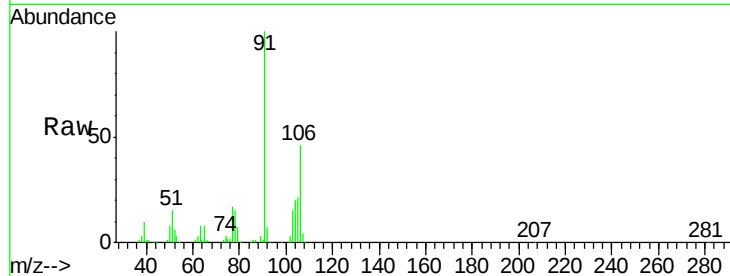
#69
o-Xylene
Concen: 18.578 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion:106 Resp: 67560
Ion Ratio Lower Upper
106 100
91 212.7 107.2 321.6

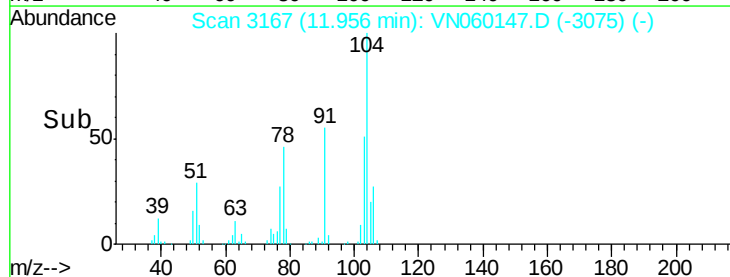
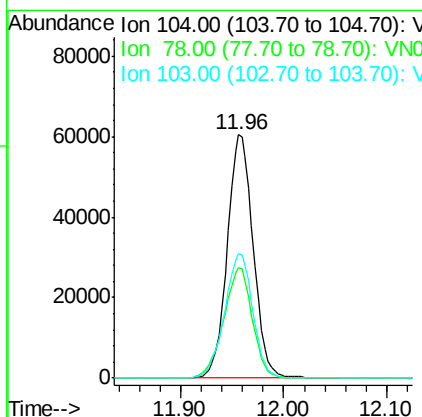
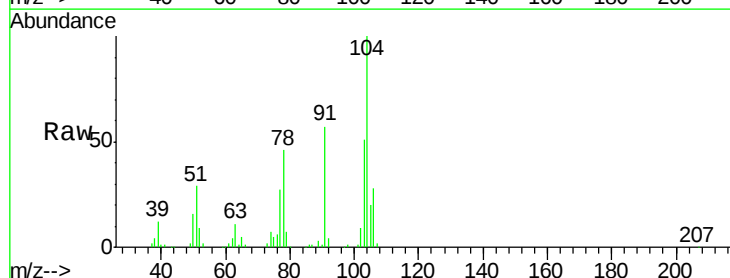
Manual Integrations
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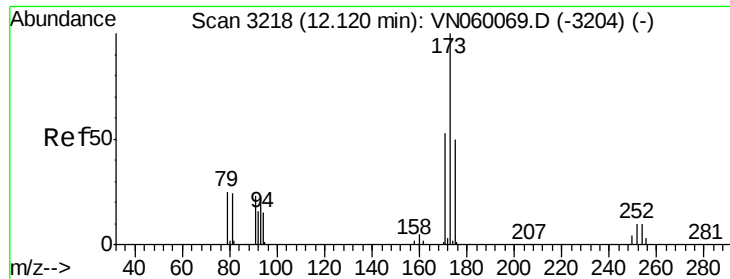
MMDadoda
2/21/2020 11:48:30 AM



#70
Styrene
Concen: 18.058 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion:104 Resp: 105896
Ion Ratio Lower Upper
104 100
78 49.8 40.2 60.2
103 55.2 44.3 66.5





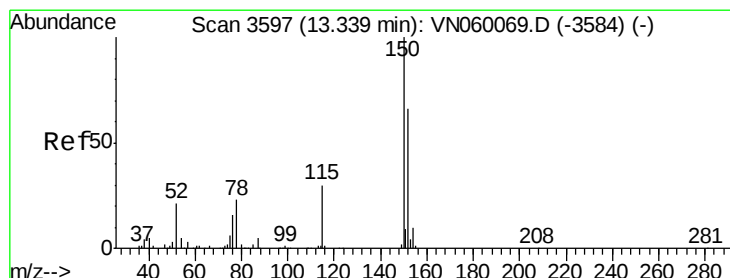
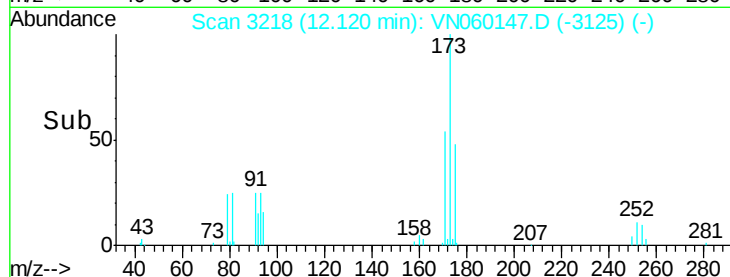
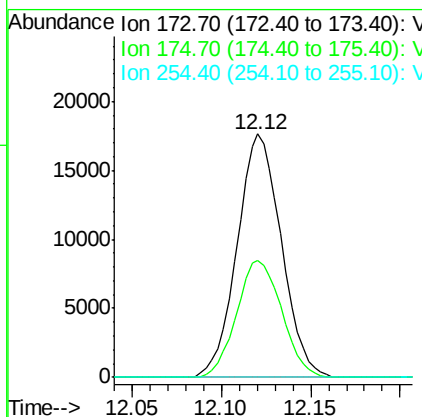
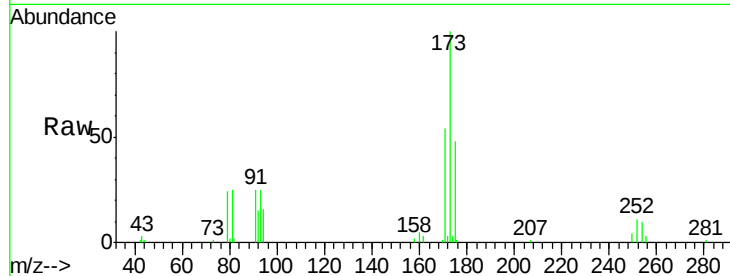
#71
Bromoform
Concen: 17.949 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.6
254	0.0	0.0	0.0

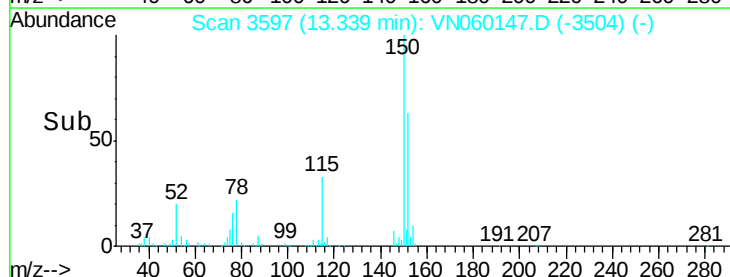
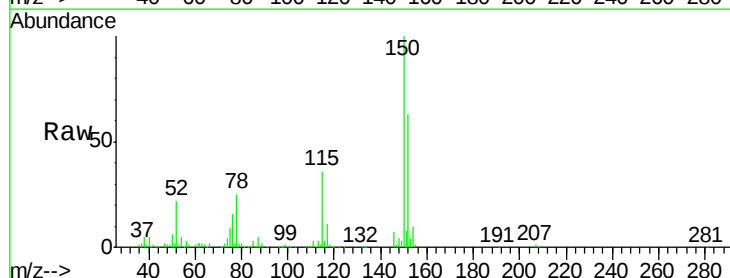
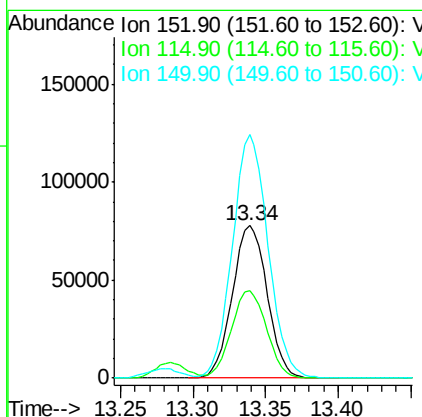
Manual Integrations
APPROVED

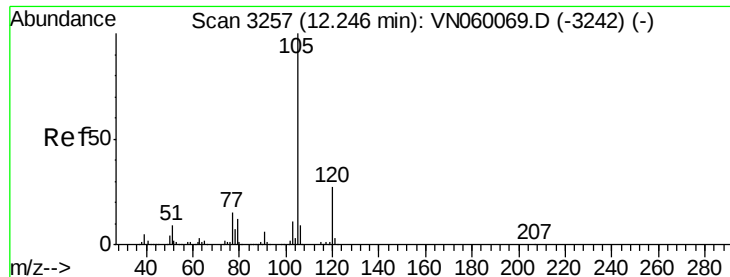
MMDadoda
2/21/2020 11:48:30 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.1	28.9	86.8
150	163.8	0.0	342.4





#73

Isopropylbenzene

Concen: 18.751 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 105 Resp: 181737

Ion Ratio Lower Upper

105 100

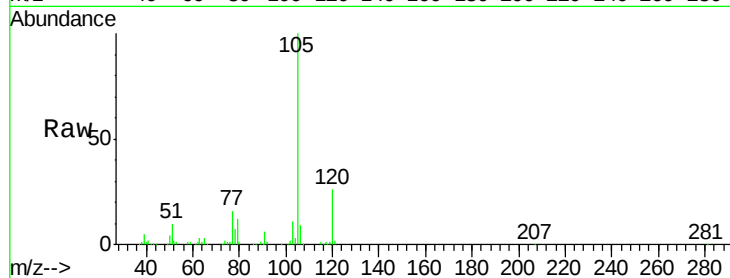
120 26.1 13.3 39.8

Manual Integrations

APPROVED

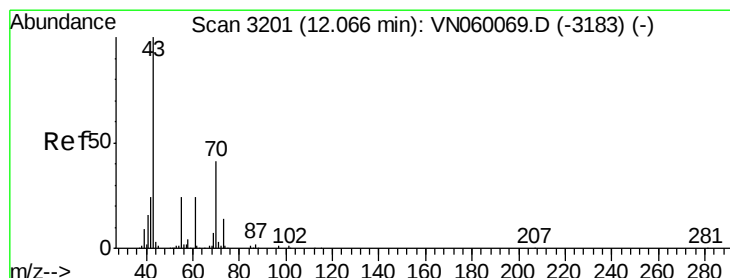
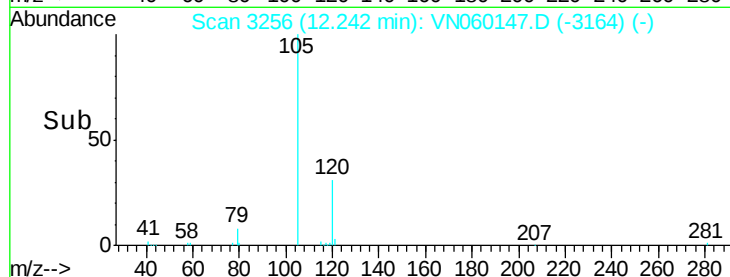
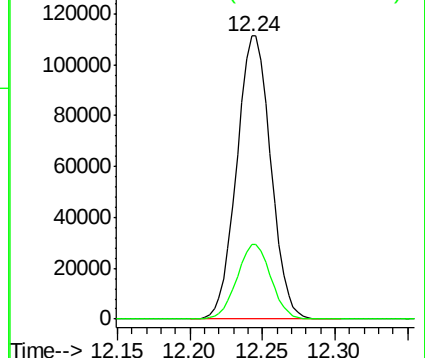
MMDadoda

2/21/2020 11:48:30 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 19.455 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion: 43 Resp: 67994

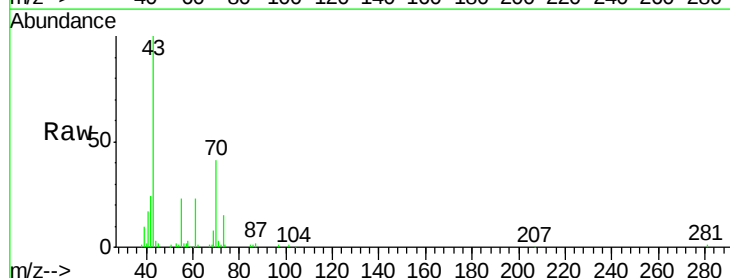
Ion Ratio Lower Upper

43 100

70 41.7 33.4 50.0

55 23.9 18.8 28.2

61 22.8 19.2 28.8

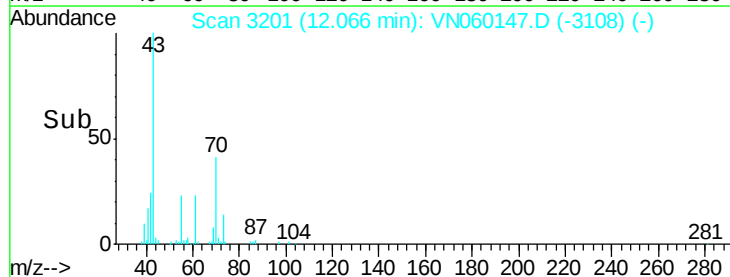
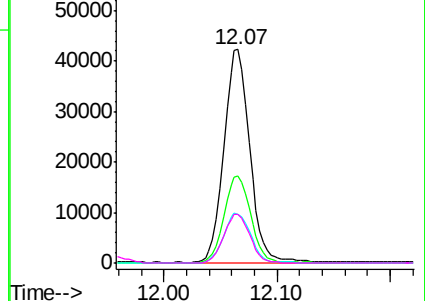


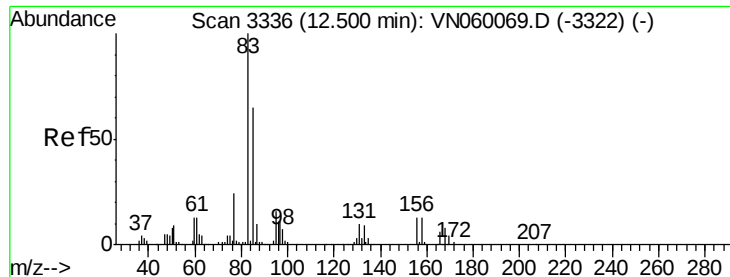
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 19.881 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

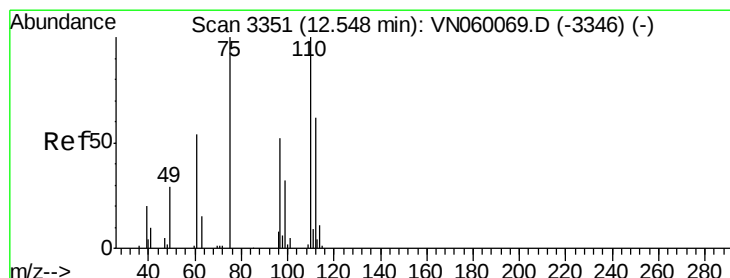
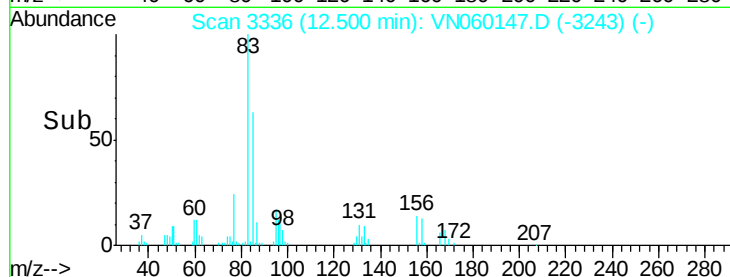
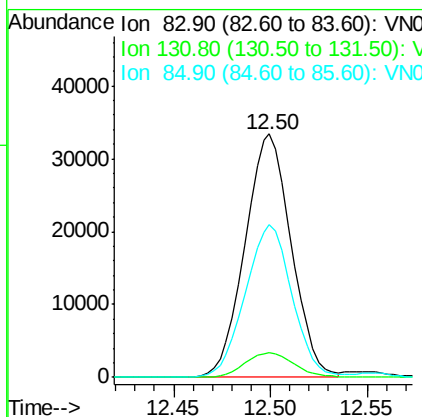
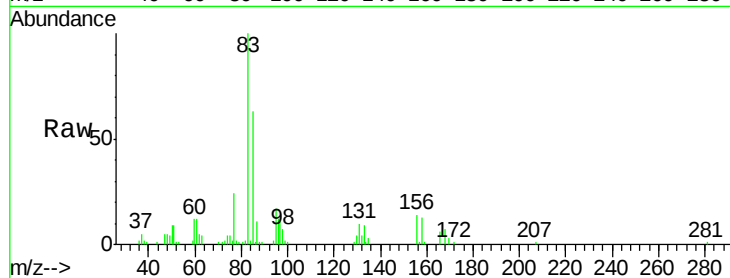
ClientSampleId :

VN0219MBS01

Tot Ion:	83	Resp:	55465
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.2	15.6
85	63.4	32.3	96.9

Manual Integrations
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2/21/2020 11:48:30 AM



#76

1,2,3-Trichloropropane

Concen: 20.078 ug/l m

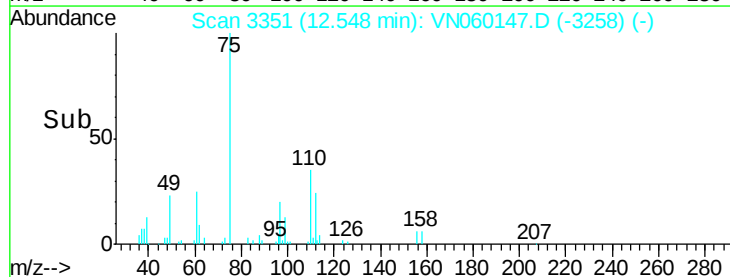
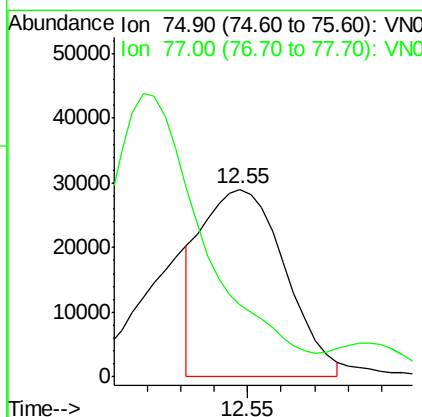
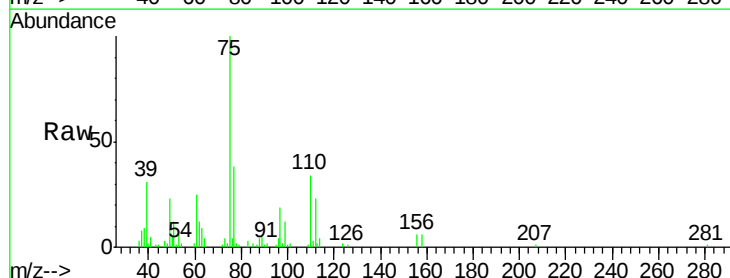
RT: 12.55 min Scan# 3351

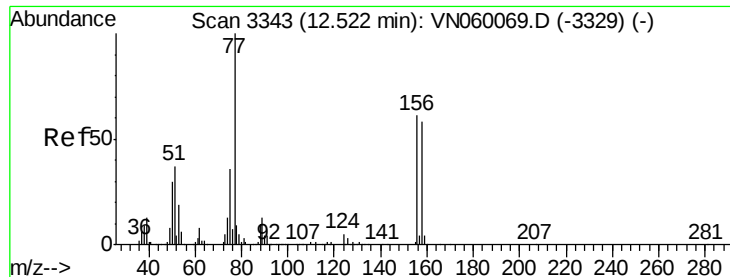
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	75	Resp:	49858
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.806 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

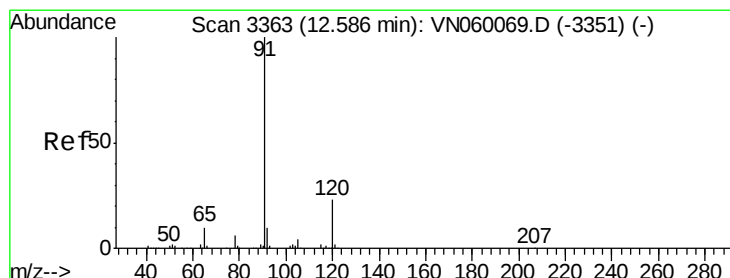
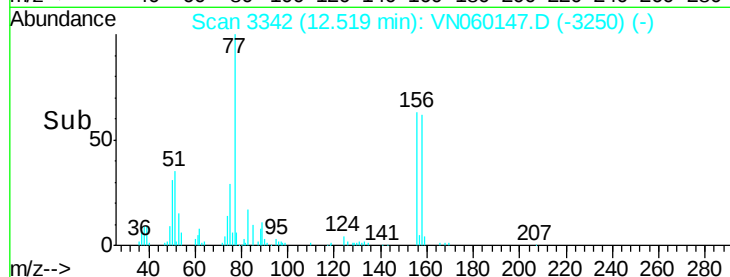
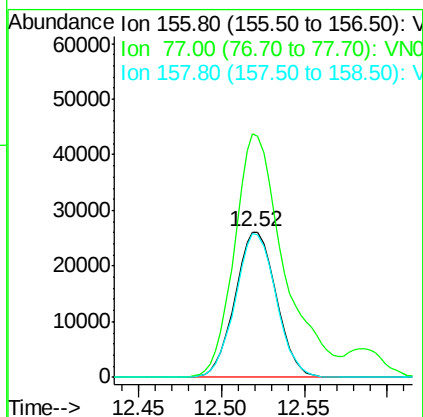
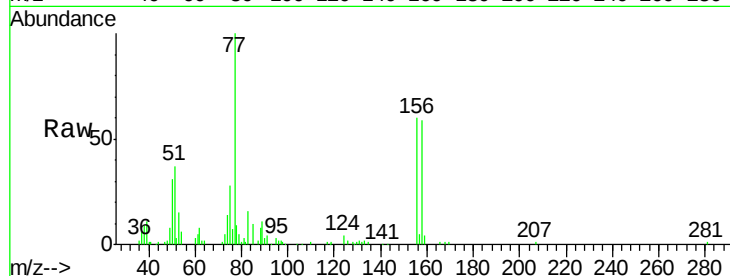
ClientSampled :

VN0219MBS01

Tot Ion:	156	Resp:	45234
Ion Ratio	Lower	Upper	
156	100		
77	200.9	98.7	296.1
158	97.5	48.1	144.4

Manual Integrations
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2/21/2020 11:48:30 AM



#78

n-propylbenzene

Concen: 18.629 ug/l

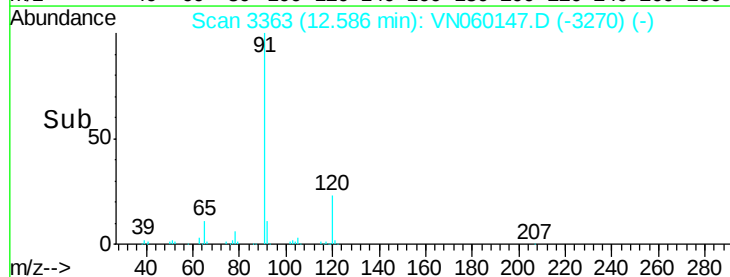
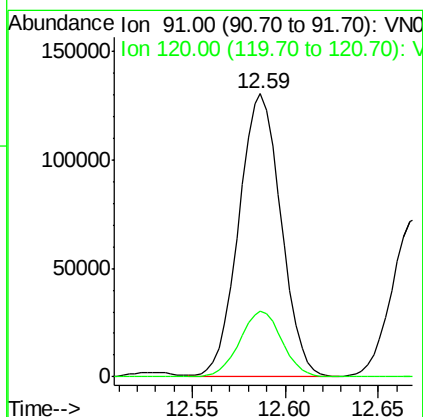
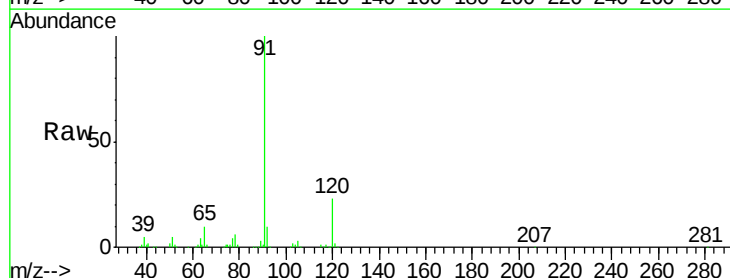
RT: 12.59 min Scan# 3363

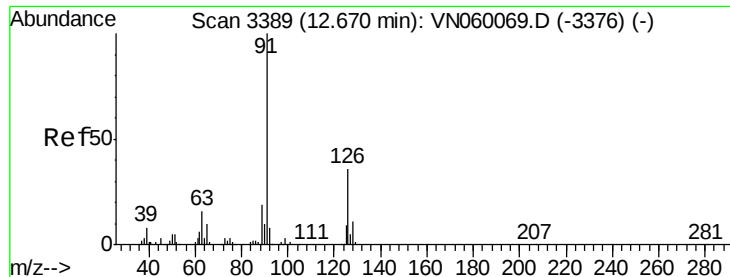
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	91	Resp:	205714
Ion Ratio	Lower	Upper	
91	100		
120	23.3	11.5	34.5





#79

2-Chlorotoluene

Concen: 18.584 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion: 91 Resp: 120619

Ion Ratio Lower Upper

91 100

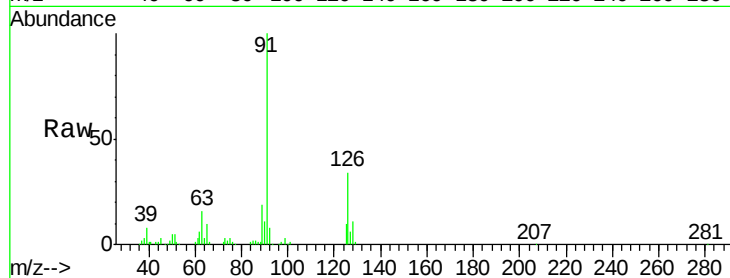
126 34.3 17.4 52.2

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

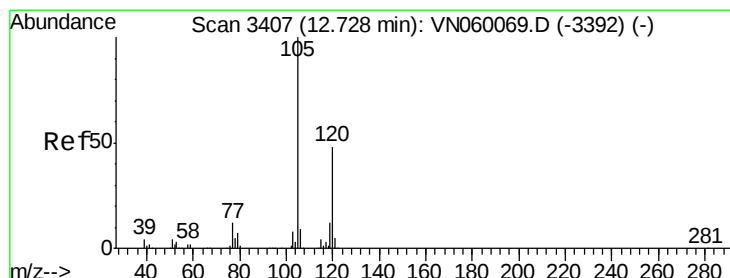
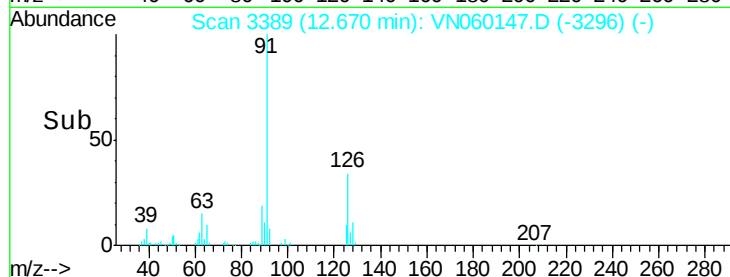
12.67

12.60

12.65

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.816 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060147.D

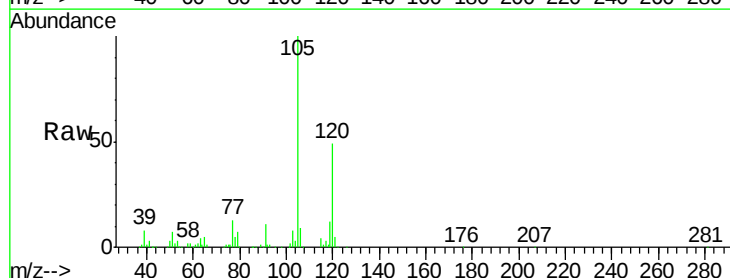
Acq: 19 Feb 2020 11:53

Tgt Ion: 105 Resp: 151637

Ion Ratio Lower Upper

105 100

120 48.9 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) (-)

100000

80000

60000

40000

20000

0

12.73

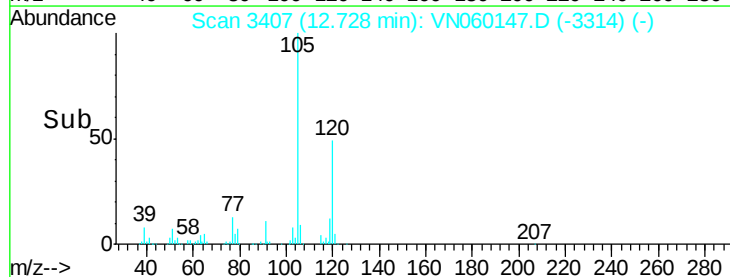
12.65

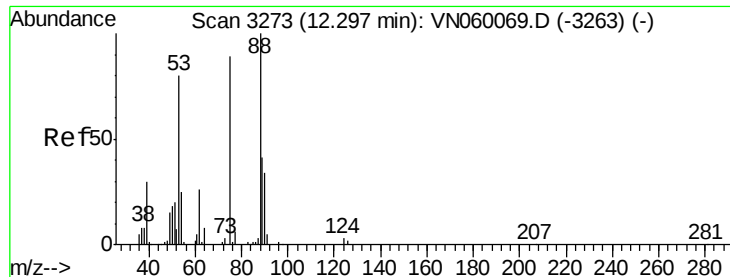
12.70

12.75

12.80

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.513 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

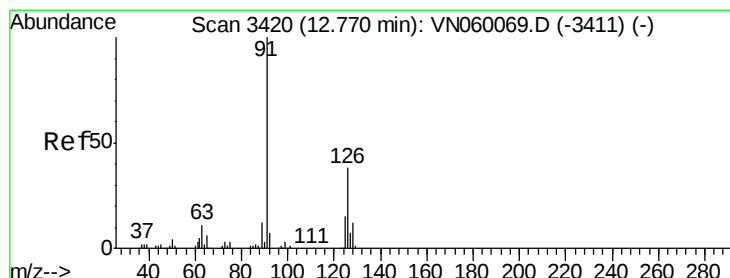
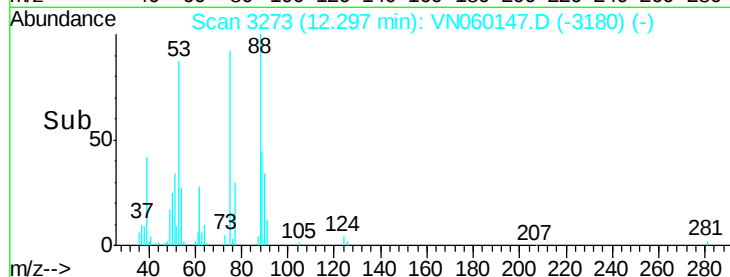
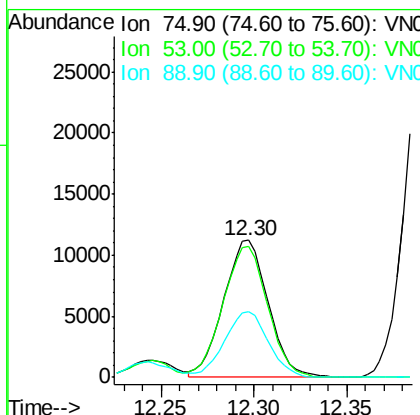
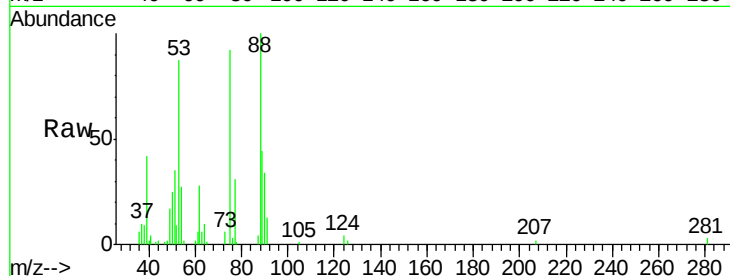
ClientSampleId :

VN0219MBS01

Tot Ion:	75	Resp:	18776
Ion	Ratio	Lower	Upper
75	100		
53	95.7	73.9	110.9
89	47.2	37.0	55.4

Manual Integrations
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2/21/2020 11:48:30 AM



#82

4-Chlorotoluene

Concen: 18.610 ug/l

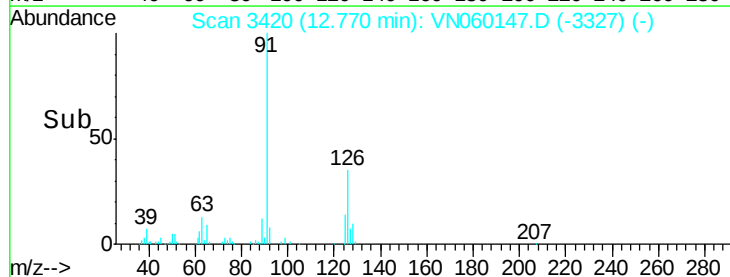
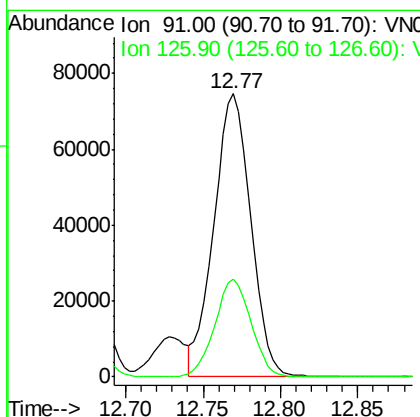
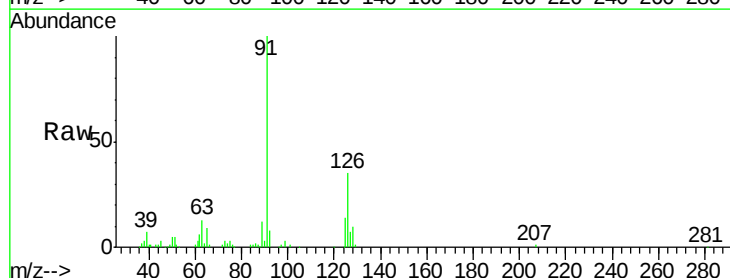
RT: 12.77 min Scan# 3420

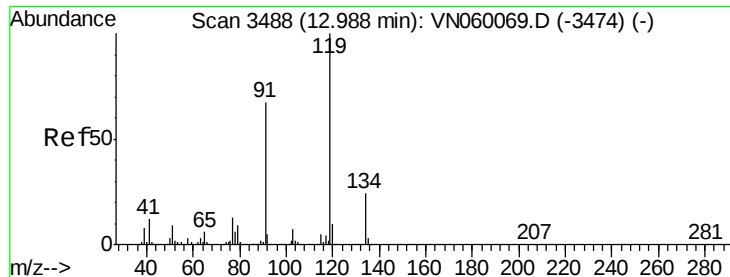
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	91	Resp:	123926
Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.1	51.3





#83

tert-Butylbenzene

Concen: 18.192 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

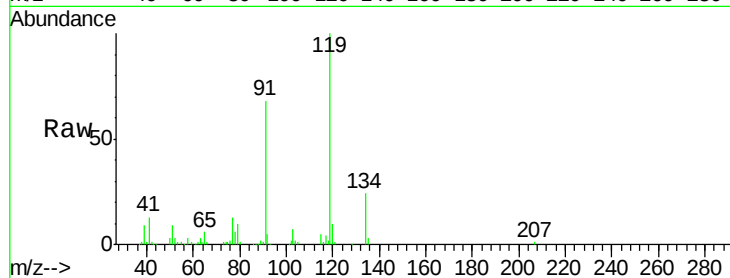
ClientSampled :

VN0219MBS01

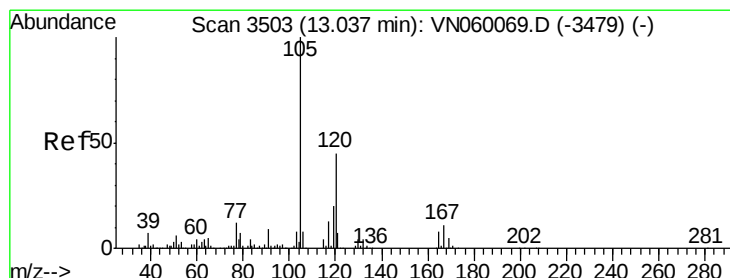
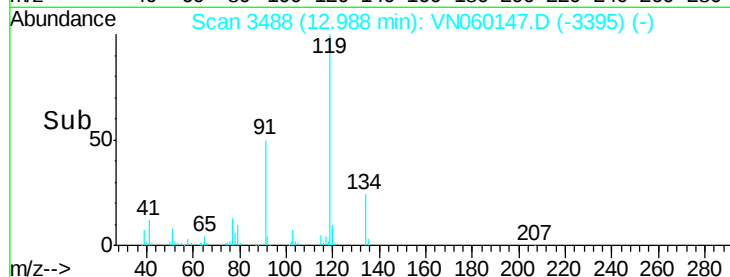
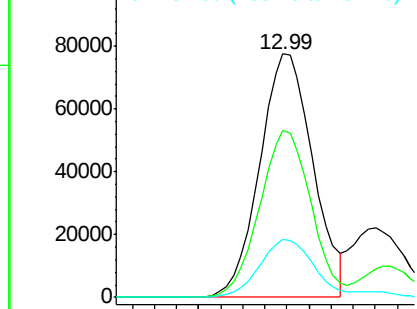
Tot Ion:	119	Resp:	129689
Ion Ratio	Lower	Upper	
119	100		
91	66.2	32.7	98.1
134	26.0	12.9	38.7

Manual Integrations
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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 19.037 ug/l

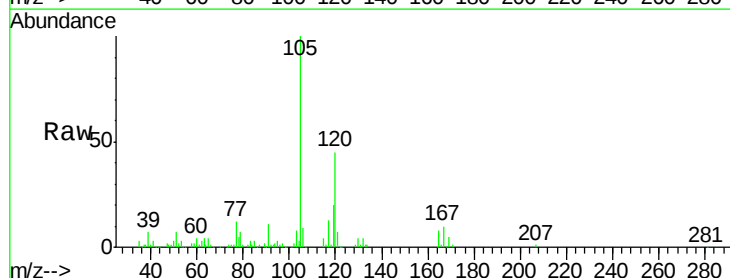
RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

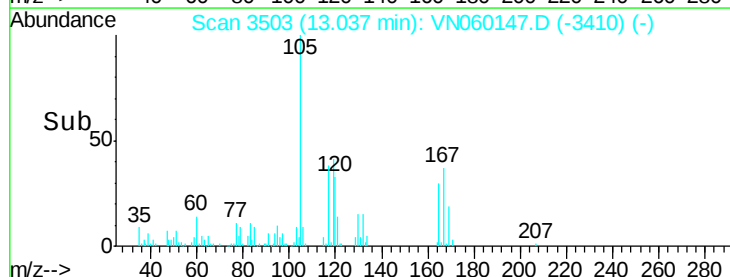
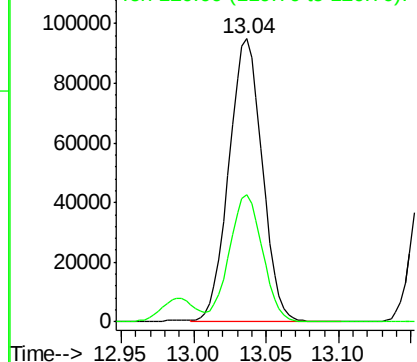
Lab File: VN060147.D

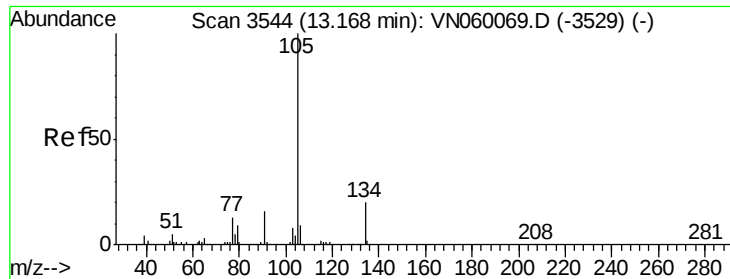
Acq: 19 Feb 2020 11:53

Tgt Ion:	105	Resp:	151438
Ion Ratio	Lower	Upper	
105	100		
120	44.9	22.4	67.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 18.397 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

ClientSampleId :

VN0219MBS01

Tot Ion:105 Resp: 173694

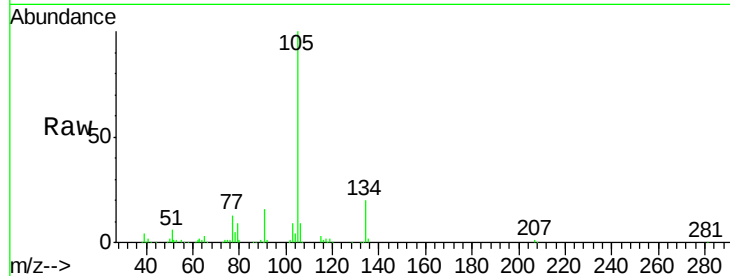
Ion Ratio Lower Upper

105 100

134 19.8 9.9 29.7

Manual Integrations
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2/21/2020 11:48:30 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

120000

100000

80000

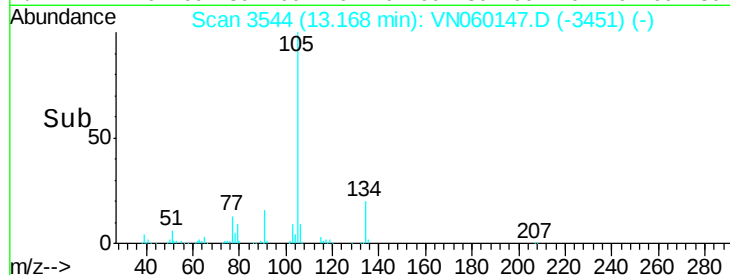
60000

40000

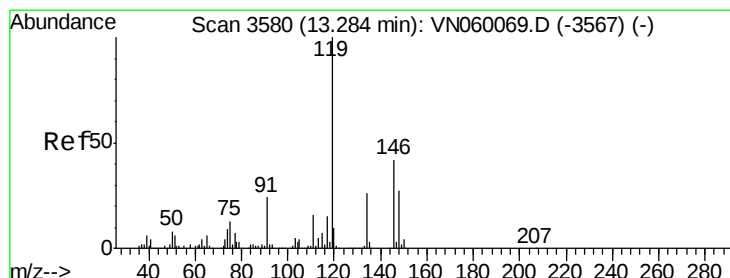
20000

0

Time-->



Time-->



#86

p-Isopropyltoluene

Concen: 18.444 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

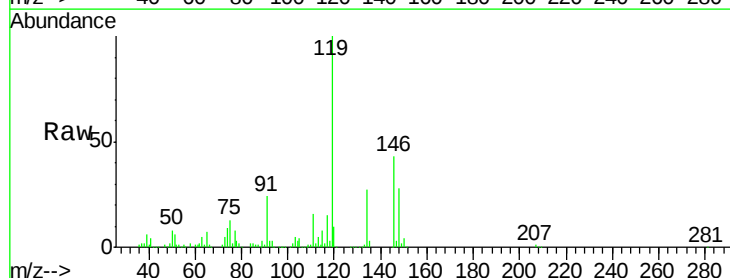
Tgt Ion:119 Resp: 157774

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.8

91 24.0 11.9 35.9



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

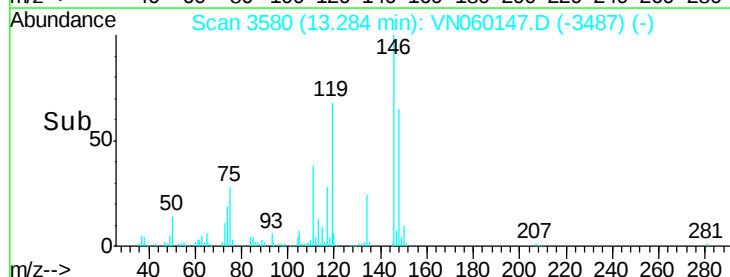
Ion 91.00 (90.70 to 91.70): V

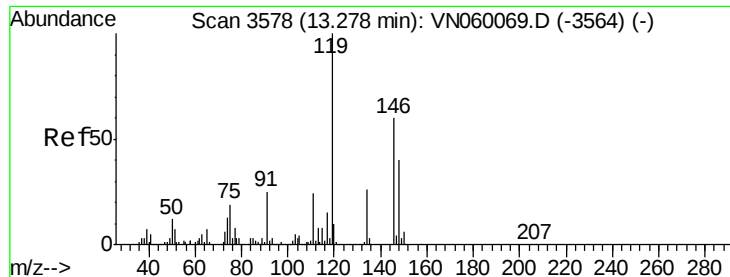
100000

50000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 18.875 ug/l

RT: 13.28 min Scan# 3578

Delta R.T. -0.00 min

Lab File: VN060147.D

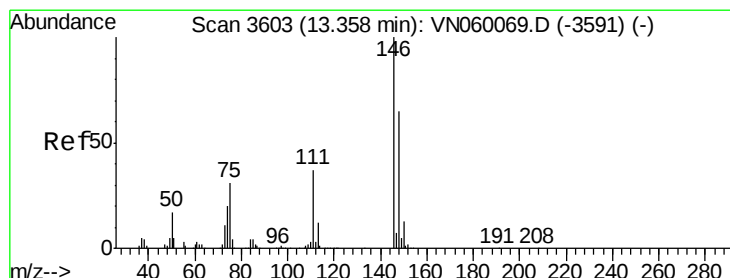
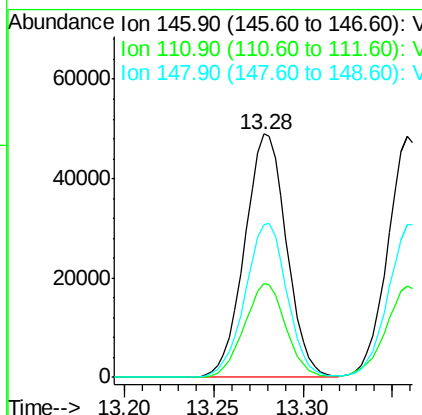
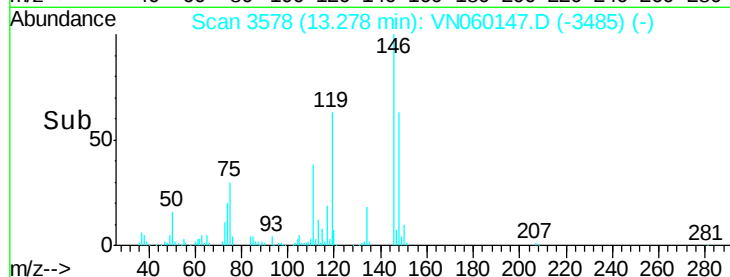
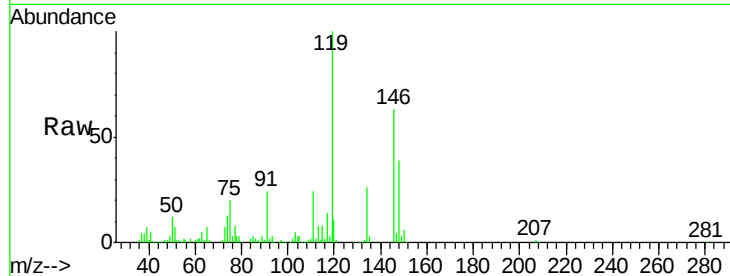
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampleId :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.8	59.3
148	63.1	32.0	96.2

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 18.427 ug/l

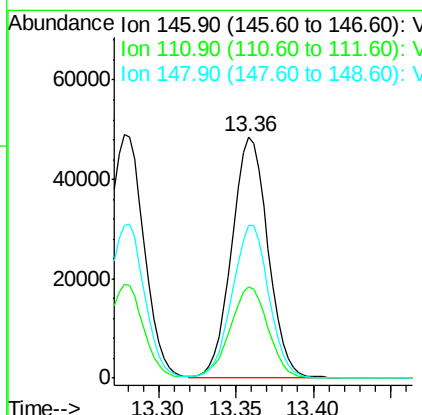
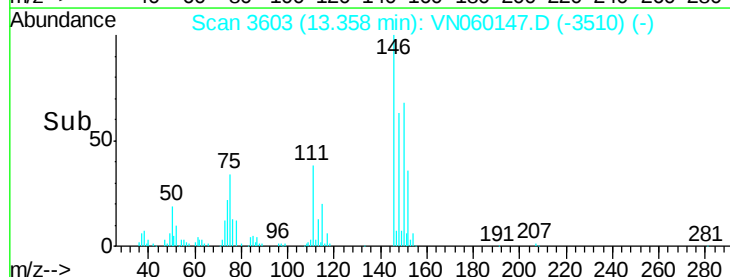
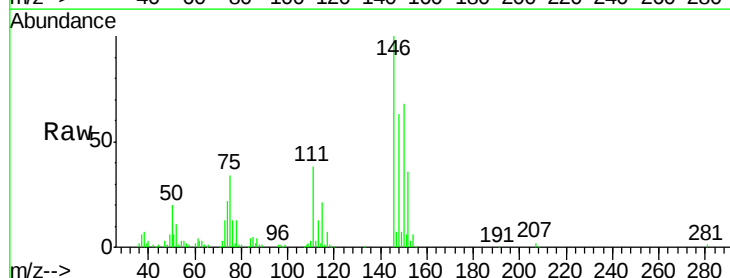
RT: 13.36 min Scan# 3603

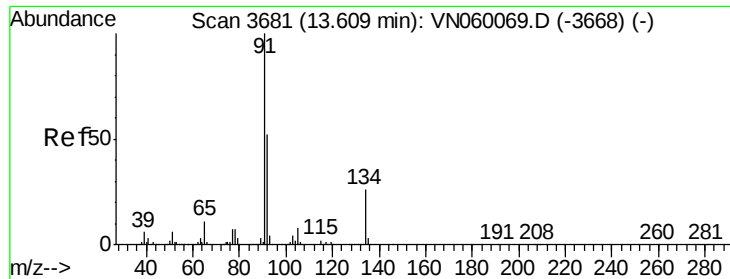
Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	18.9	56.5
148	64.7	32.0	96.0





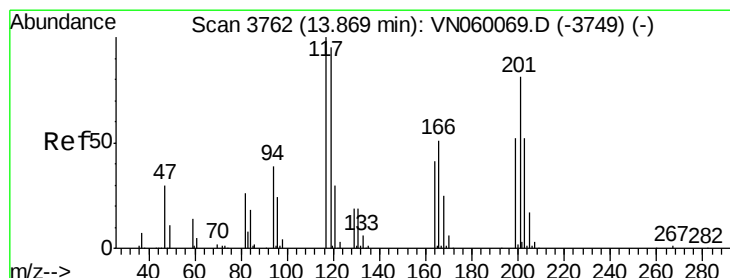
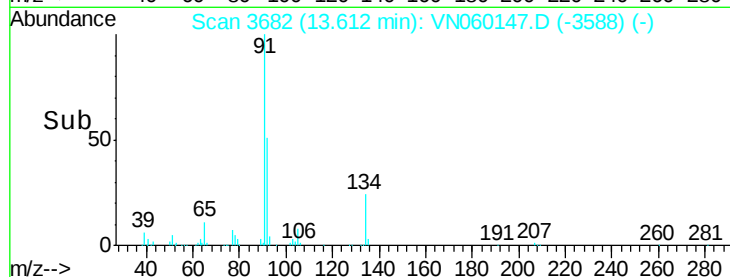
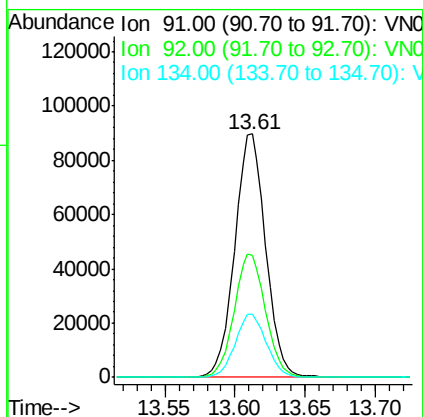
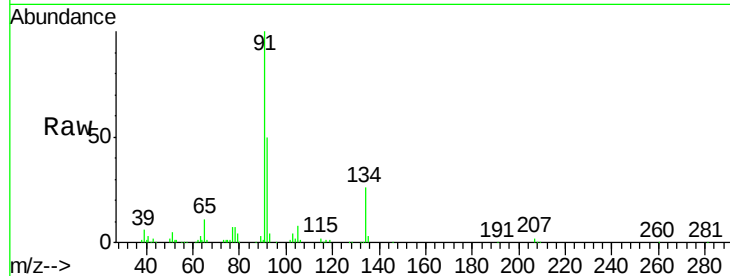
#89
n-Butylbenzene
Concen: 18.340 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Instrument :
MSVOA_N
ClientSampled :
VN0219MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.1	78.2
134	26.1	13.1	39.3

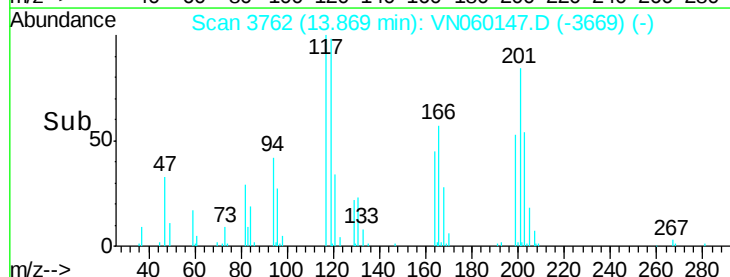
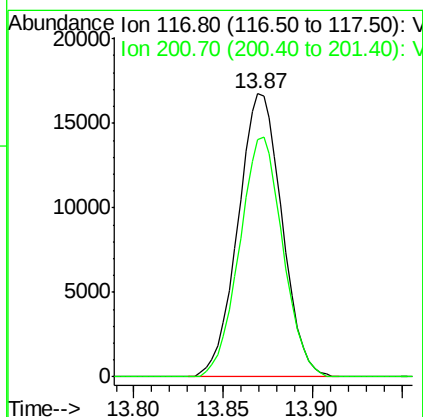
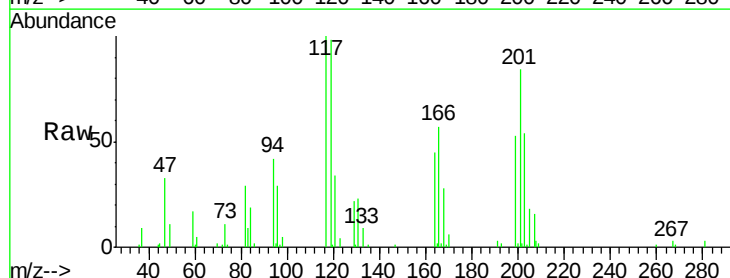
Manual Integrations
APPROVED

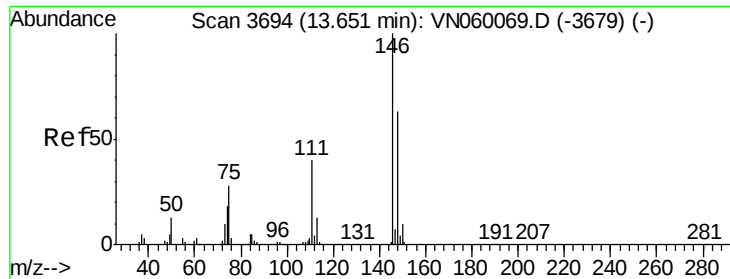
MMDadoda
2/21/2020 11:48:30 AM



#90
Hexachloroethane
Concen: 18.073 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN060147.D
Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.3	41.7	125.1





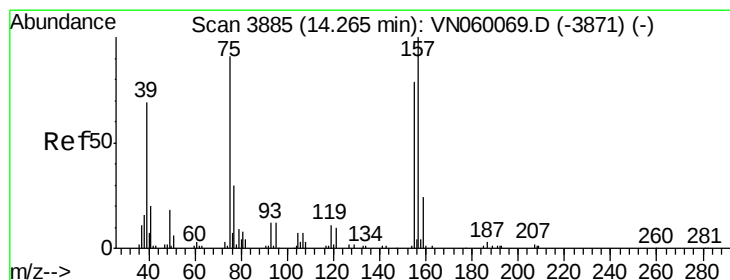
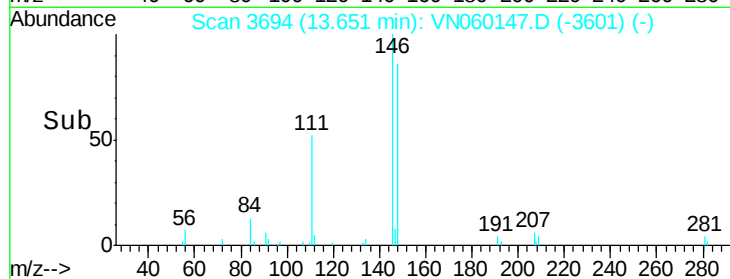
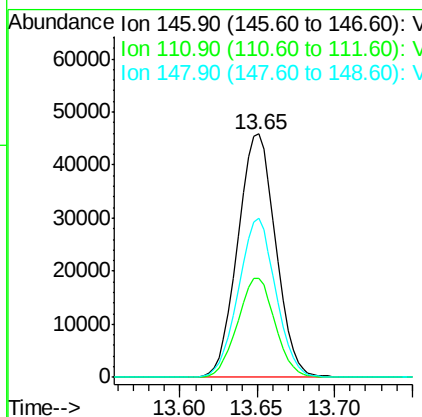
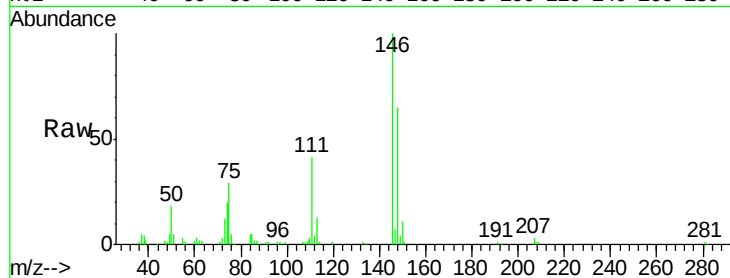
#91
 1,2-Dichlorobenzene
 Concen: 18.787 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0219MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.1	60.2
148	64.3	31.9	95.5

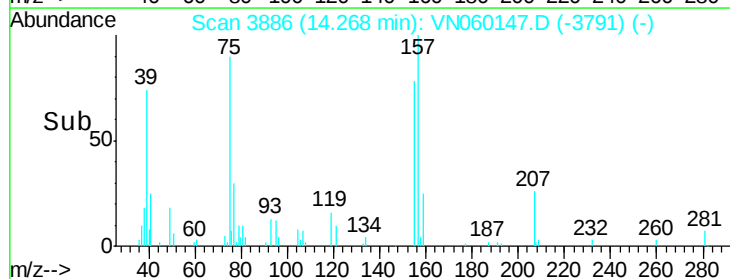
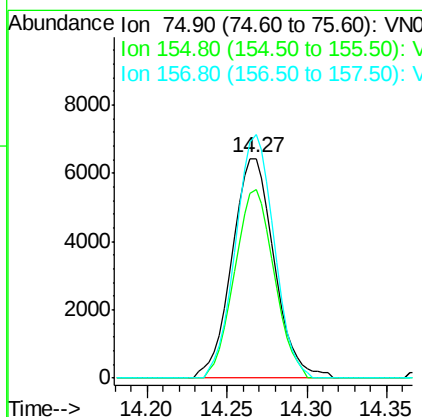
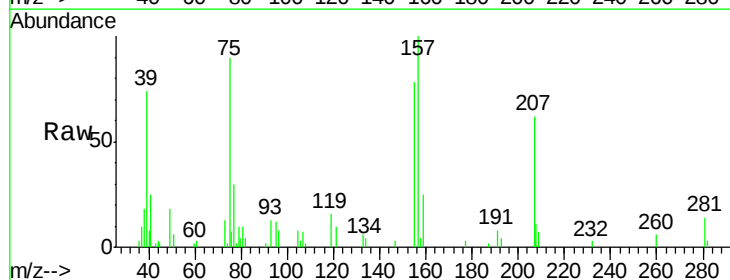
Manual Integrations
 APPROVED

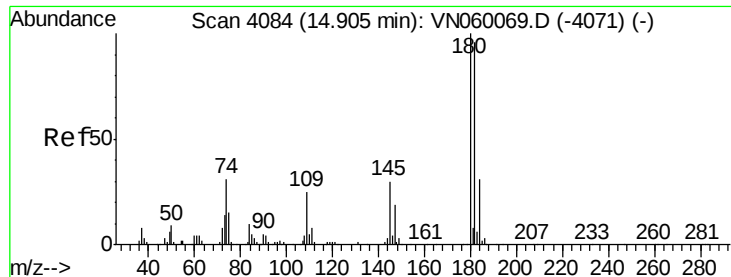
MMDadoda
 2/21/2020 11:48:30 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.051 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.3	43.0	129.0
157	100.9	54.9	164.5





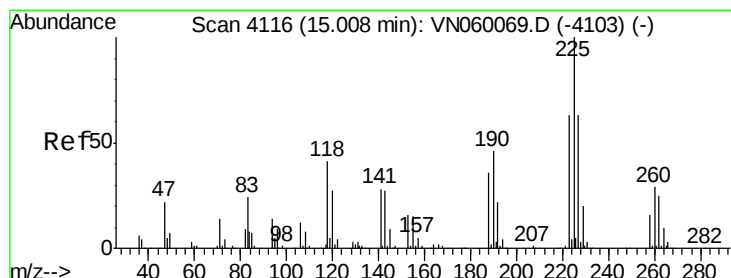
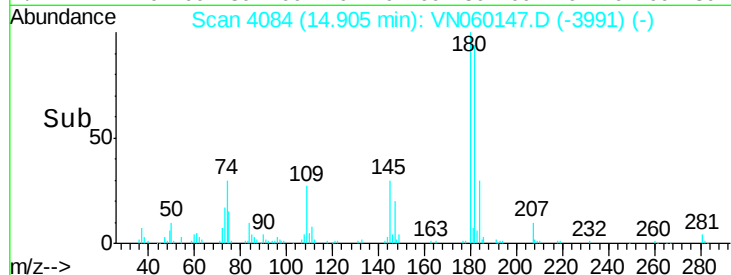
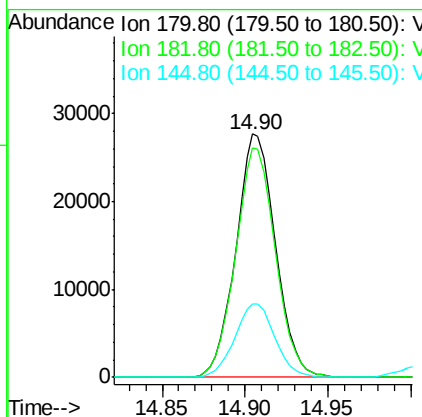
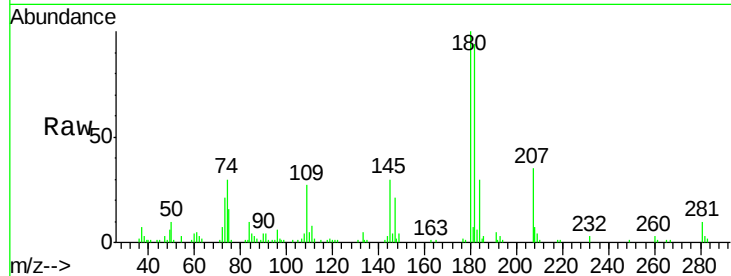
#93
 1,2,4-Trichlorobenzene
 Concen: 18.749 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0219MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	45902		
182	94.9		47.9	143.8
145	30.4		15.2	45.5

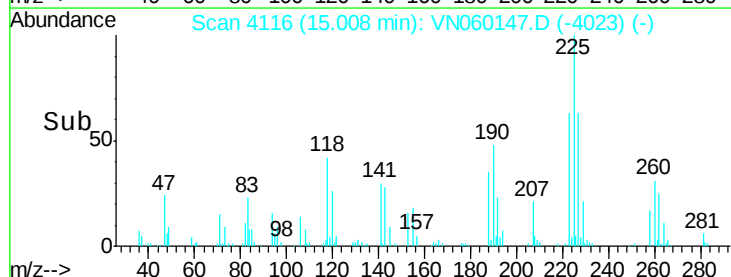
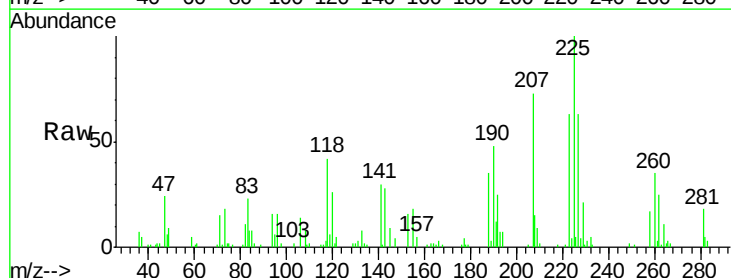
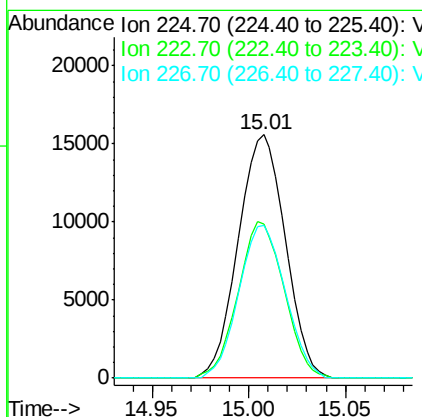
Manual Integrations
 APPROVED

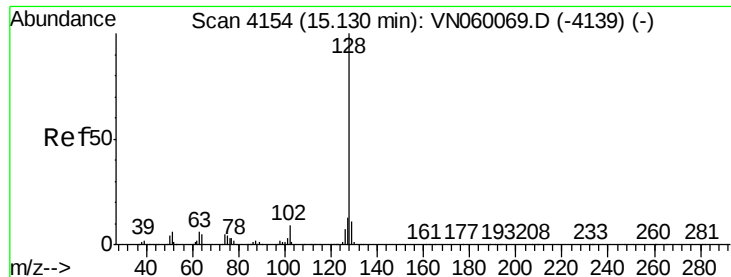
MMDadoda
 2/21/2020 11:48:30 AM



#94
 Hexachlorobutadiene
 Concen: 18.394 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN060147.D
 Acq: 19 Feb 2020 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	26364		
223	62.7		31.5	94.5
227	62.0		31.8	95.4





#95

Naphthalene

Concen: 18.628 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Instrument :

MSVOA_N

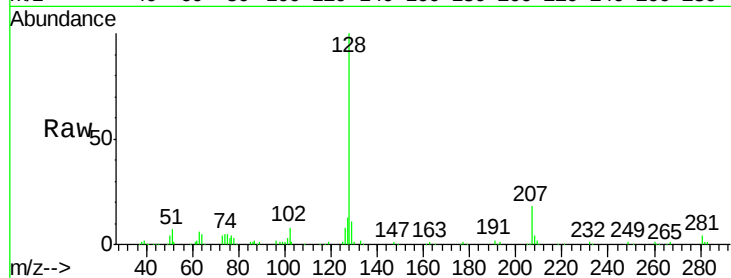
ClientSampleId :

VN0219MBS01

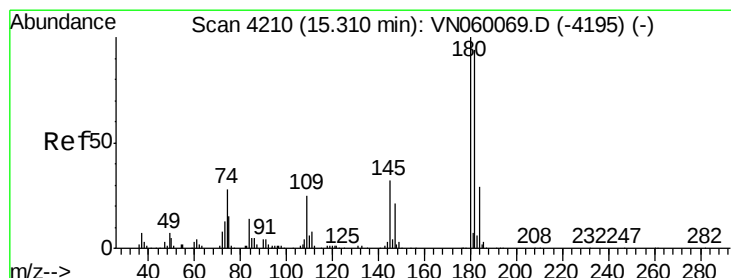
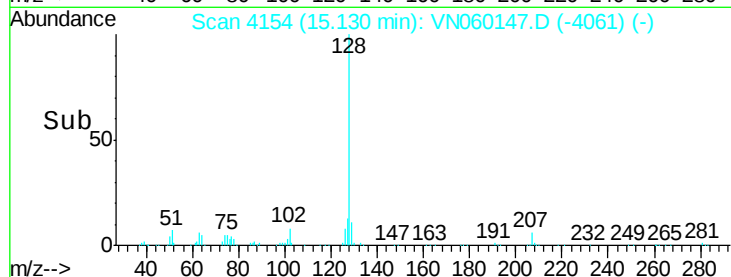
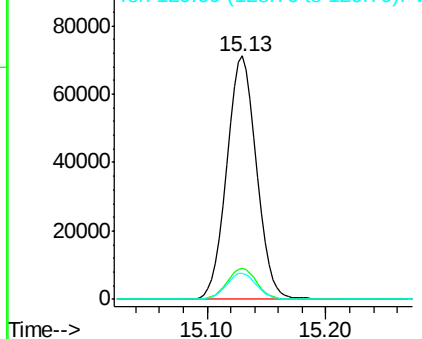
Tot Ion:	128	Resp:	123196
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.3	15.5
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/21/2020 11:48:30 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 18.500 ug/l

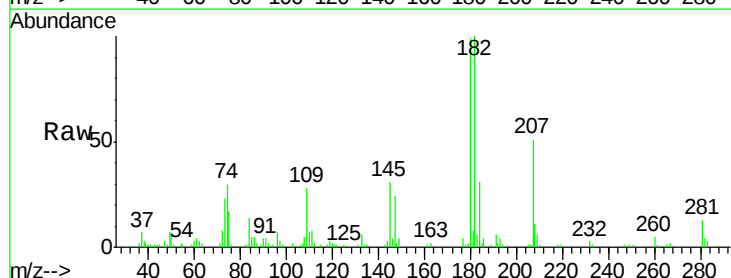
RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN060147.D

Acq: 19 Feb 2020 11:53

Tgt Ion:	180	Resp:	45106
Ion Ratio	Lower	Upper	
180	100		
182	97.9	47.5	142.5
145	31.6	16.1	48.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

