

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057473.D
 Acq On : 23 Aug 2019 14:40
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:28 PM

Quant Time: Aug 24 00:03:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	66861	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	377977	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	320125	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	193432	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.40	95	152374	28.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.20%
63) Toluene-d8	10.08	98	490837	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	73913	21.131	ug/l 99
3) Chloromethane	2.05	50	112317	21.383	ug/l 98
4) Vinyl Chloride	2.17	62	140429	21.045	ug/l 98
5) Bromomethane	2.54	94	91685	21.239	ug/l 98
6) Chloroethane	2.69	64	92499	20.695	ug/l 99
7) Trichlorofluoromethane	3.00	101	223780	21.085	ug/l 92
8) Diethyl Ether	3.39	74	84267	20.667	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	123793	20.709	ug/l 97
10) 1,1-Dichloroethene	3.71	96	120364	20.856	ug/l 94
11) Methyl Iodide	3.92	142	90374	17.421	ug/l 97
12) Methyl Acetate	4.30	43	116463	20.033	ug/l 98
13) Acrolein	3.58	56	70835	95.805	ug/l 97
14) Acrylonitrile	4.97	53	213236	105.581	ug/l # 81
15) Acetone	3.80	58	84380	89.310	ug/l 93
16) Carbon Disulfide	4.02	76	206450	20.084	ug/l 100
17) Allyl chloride	4.29	41	161839	20.556	ug/l 94
18) Methylene Chloride	4.52	84	88452m	20.899	ug/l
19) trans-1,2-Dichloroethene	5.00	96	78082	19.591	ug/l 94
20) Diisopropyl ether	5.93	45	349536	20.795	ug/l 95
21) 1,1-Dichloroethane	5.82	63	180271	20.640	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	96741	19.957	ug/l 96
23) tert-Butyl Alcohol	4.78	59	74898m	102.091	ug/l
24) Methyl tert-Butyl Ether	5.02	73	275664	20.675	ug/l 99
25) Chloroform	7.36	83	176329	20.334	ug/l 98
26) Cyclohexane	7.63	56	152677	19.631	ug/l # 98
29) 1,1-Dichloropropene	7.77	75	130637	20.336	ug/l 98
30) 2-Butanone	6.82	43	311400	100.826	ug/l 99
31) 2,2-Dichloropropane	6.80	77	143002	19.484	ug/l 99
32) 1,1,1-Trichloroethane	7.55	97	152210	20.727	ug/l 99
33) Carbon Tetrachloride	7.76	117	122796	20.137	ug/l 100
34) Benzene	8.03	78	381792	20.211	ug/l 100
35) Methacrylonitrile	7.16	41	66597	21.306	ug/l 90
36) 1,2-Dichloroethane	8.11	62	156815	21.177	ug/l # 89
37) Trichloroethene	8.82	130	86574	20.088	ug/l 99
38) Methylcyclohexane	9.07	83	141209	19.585	ug/l 99
39) 1,2-Dichloropropane	9.11	63	109964	20.473	ug/l 97
40) Dibromomethane	9.20	93	66682	20.313	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	137053	19.685	ug/l	96
42) Vinyl Acetate	5.88	43	1403748	101.565	ug/l	100
43) Ethyl Acetate	6.92	43	136152	22.648	ug/l	95
44) Isopropyl Acetate	8.16	43	234084	20.398	ug/l #	92
45) 1,4-Dioxane	9.20	88	29288	424.588	ug/l	97
46) Methyl methacrylate	9.19	41	108361	19.883	ug/l	98
47) n-amyl Acetate	12.07	43	182032	19.708	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	140357	19.083	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	156167	19.319	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	87515	20.331	ug/l	98
51) Ethyl methacrylate	10.43	69	146821	20.519	ug/l	98
52) 1,3-Dichloropropane	10.70	76	159041	20.266	ug/l	100
53) Dibromochloromethane	10.90	129	90655	19.756	ug/l	99
54) 1,2-Dibromoethane	11.00	107	87796	19.934	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	311943	176.856	ug/l	99
56) Bromoform	12.13	173	52750	19.261	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	672937	107.154	ug/l	99
59) 2-Hexanone	10.75	43	461050	105.917	ug/l	98
61) Tetrachloroethene	10.63	164	77694	21.163	ug/l	91
62) Toluene	10.15	91	402124	20.553	ug/l	99
64) Chlorobenzene	11.43	112	217294	20.429	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	84443	20.890	ug/l	97
66) Ethyl Benzene	11.51	91	420873	20.100	ug/l	100
67) m/p-Xylenes	11.62	106	293292	40.383	ug/l	97
68) o-Xylene	11.95	106	147797	20.592	ug/l	99
69) Styrene	11.96	104	228906	19.965	ug/l	98
70) Isopropylbenzene	12.25	105	388403	20.229	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	115815	20.858	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	108705m	21.567	ug/l	
73) Bromobenzene	12.53	156	78999	20.327	ug/l	99
74) n-propylbenzene	12.59	91	418587	19.119	ug/l	100
75) 2-Chlorotoluene	12.67	91	254698	19.753	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	315030	19.992	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	35405	19.588	ug/l	96
78) 4-Chlorotoluene	12.77	91	230730	18.938	ug/l	100
79) tert-butylbenzene	12.99	119	263258	19.634	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	291572	19.848	ug/l	98
81) sec-Butylbenzene	13.17	105	343323	19.431	ug/l	99
82) p-Isopropyltoluene	13.29	119	281936	18.980	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	117579	19.435	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	108965	18.514	ug/l	99
85) n-Butylbenzene	13.62	91	242206	18.703	ug/l	97
86) Hexachloroethane	13.88	117	59256	19.770	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	117447	19.767	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18826	20.204	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	33432	15.017	ug/l	97
90) Hexachlorobutadiene	15.01	225	35369	20.664	ug/l	96
91) Naphthalene	15.13	128	109128	19.909	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	37084	16.657	ug/l	98

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QLast Update : Fri Aug 23 23:15:31 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

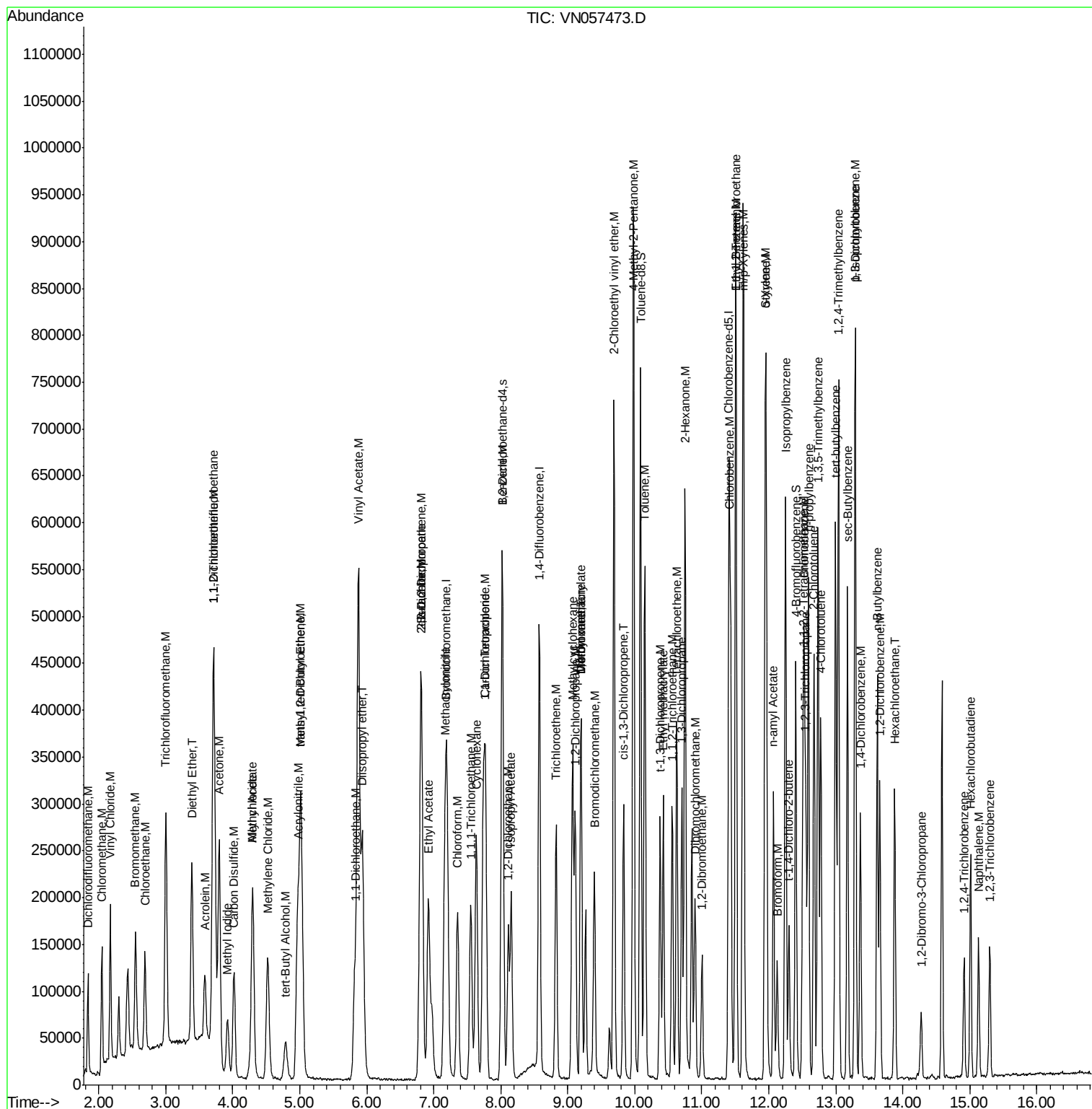
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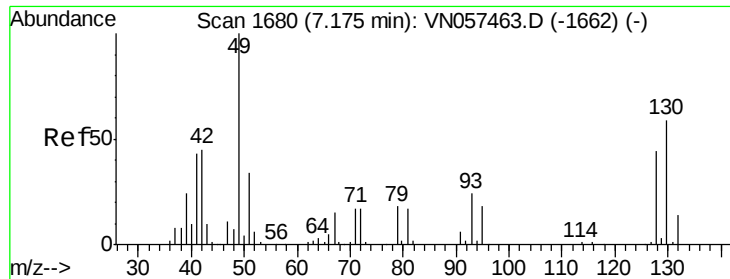
Instrument :
MSVOA_N
Client Sample Id :
VSTDCCC020EC

Manual Integrations
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

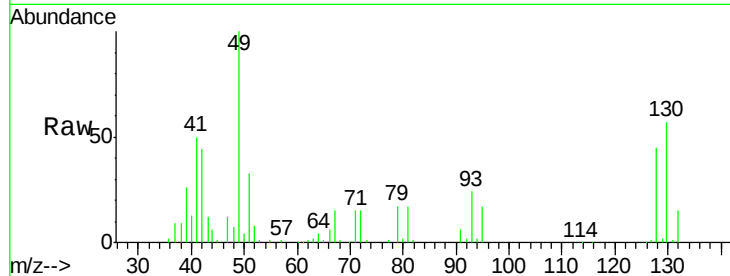
ClientSampleId :

VSTDCCC020EC

Tot Ion:	128	Resp:	66861
Ion	Ratio	Lower	Upper
128	100		
49	219.1	0.0	560.5
130	124.1	0.0	317.3

Manual Integrations
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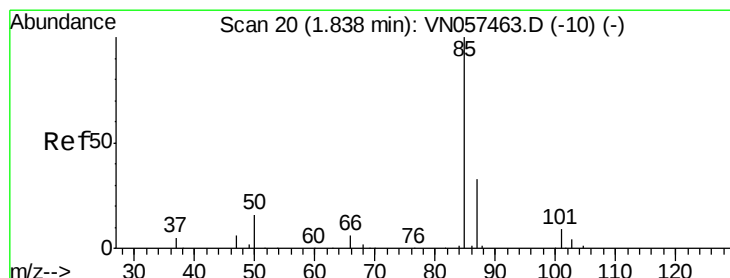
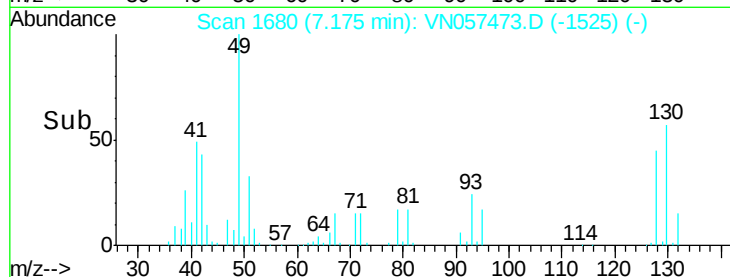
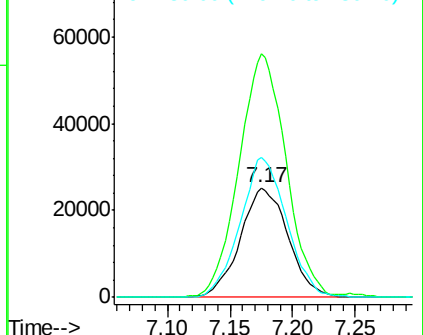
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 21.131 ug/l

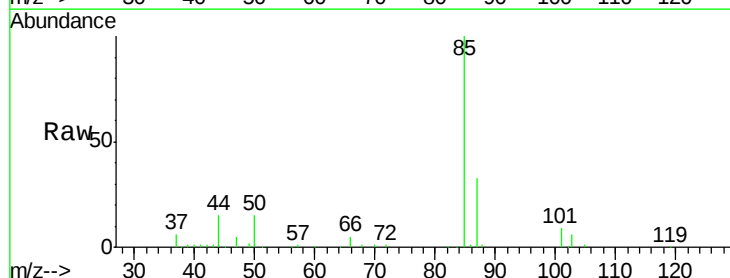
RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

Lab File: VN057473.D

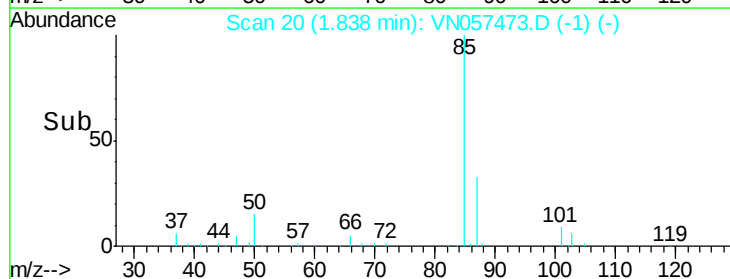
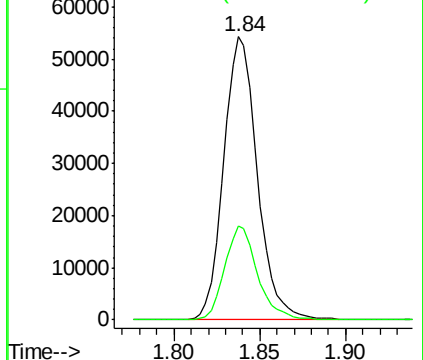
Acq: 23 Aug 2019 14:40

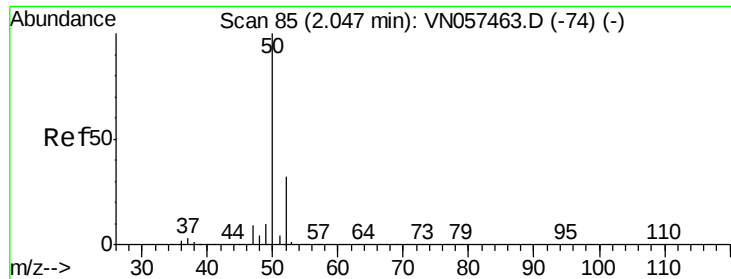
Tgt Ion:	85	Resp:	73913
Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1



Abundance Ion 85.00 (84.70 to 85.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#3

Chloromethane

Concen: 21.383 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 112317

Ion Ratio Lower Upper

50 100

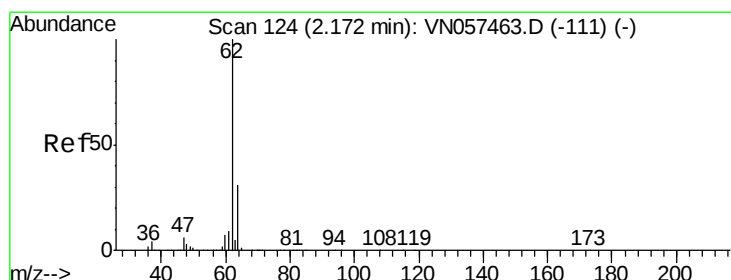
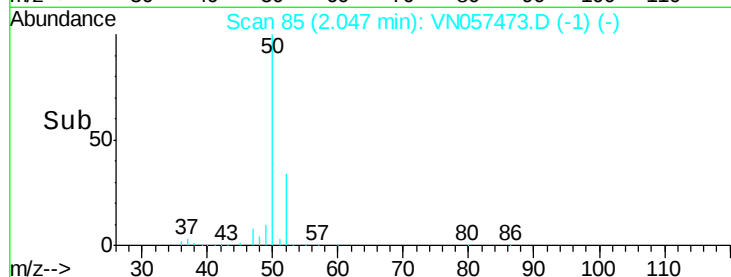
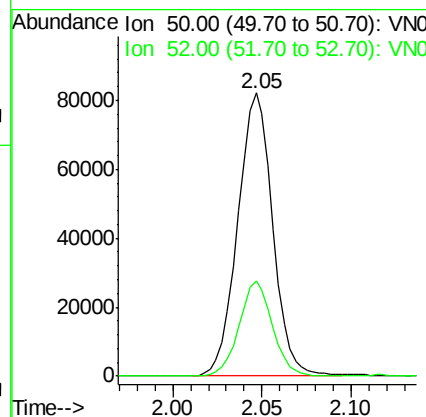
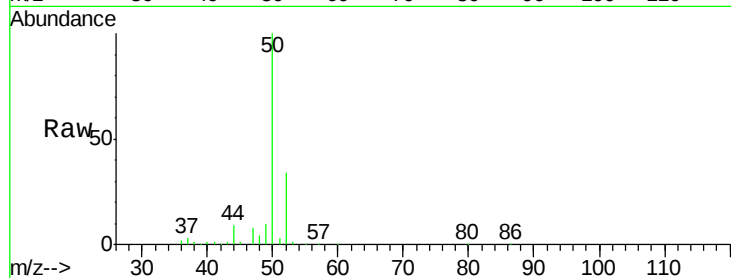
52 33.4 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.045 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN057473.D

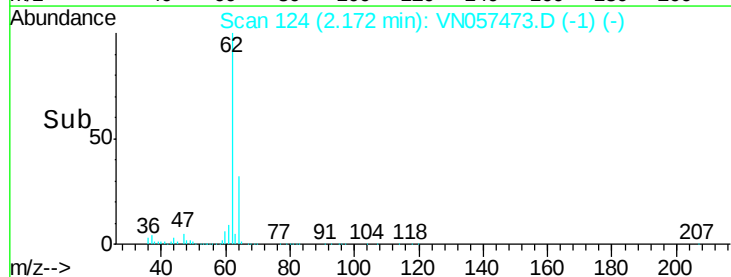
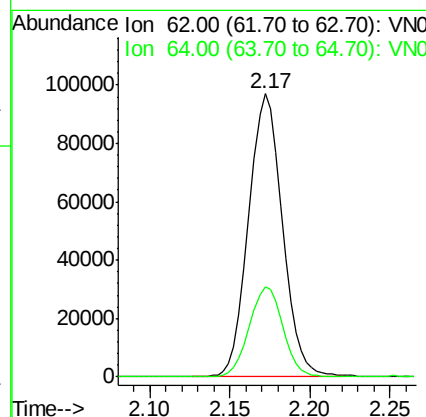
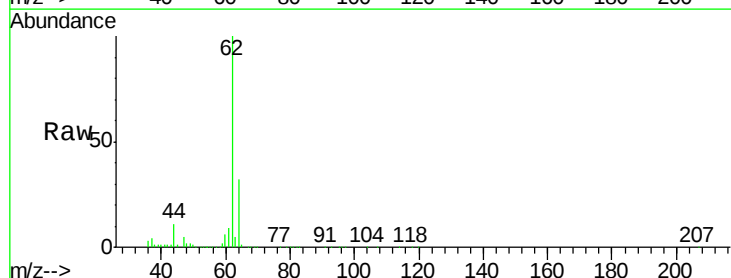
Acq: 23 Aug 2019 14:40

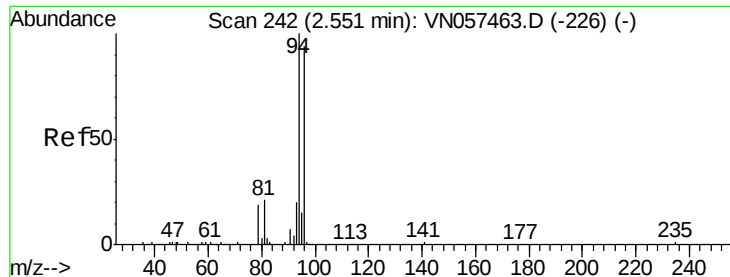
Tgt Ion: 62 Resp: 140429

Ion Ratio Lower Upper

62 100

64 31.9 24.8 37.2





#5

Bromomethane

Concen: 21.239 ug/l

RT: 2.54 min Scan# 240

Delta R.T. -0.01 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 91685

Ion Ratio Lower Upper

94 100

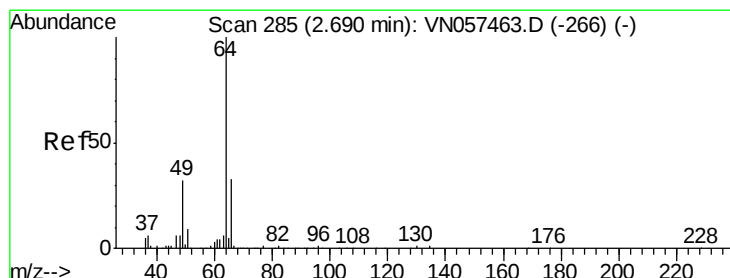
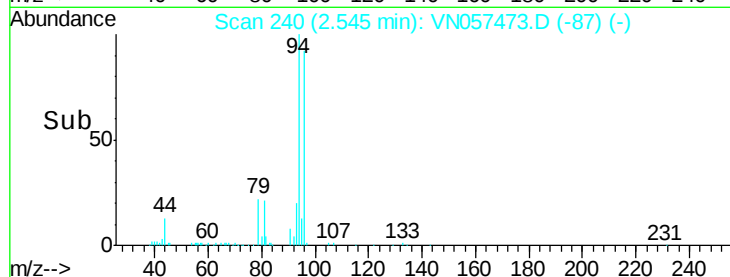
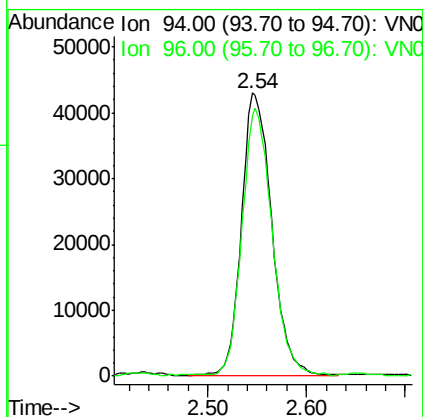
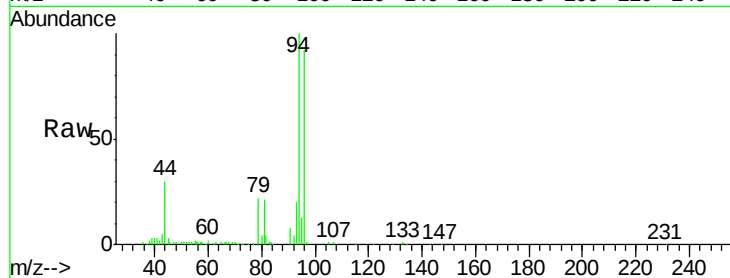
96 91.5 74.8 112.2

Manual Integrations

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#6

Chloroethane

Concen: 20.695 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN057473.D

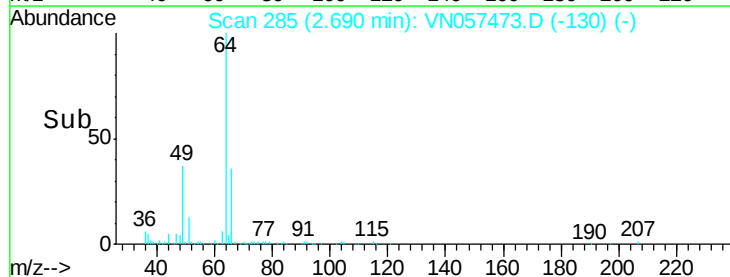
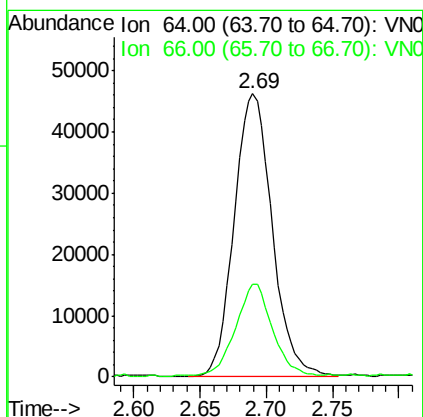
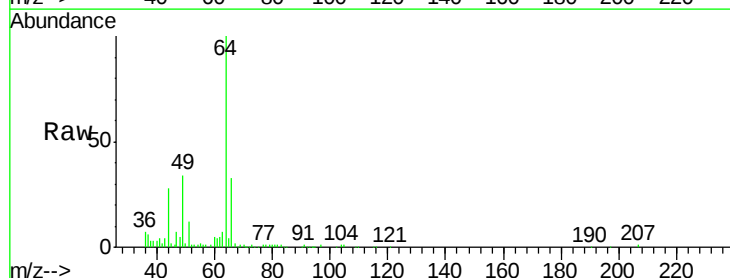
Acq: 23 Aug 2019 14:40

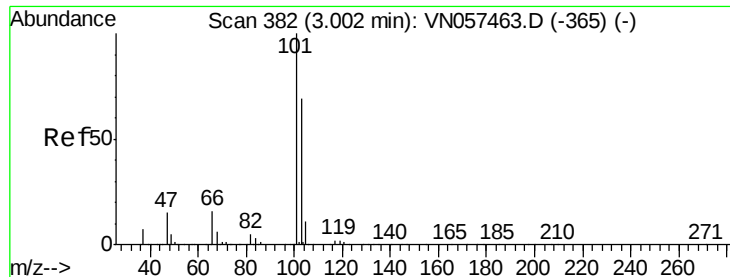
Tgt Ion: 64 Resp: 92499

Ion Ratio Lower Upper

64 100

66 32.3 26.3 39.5





#7

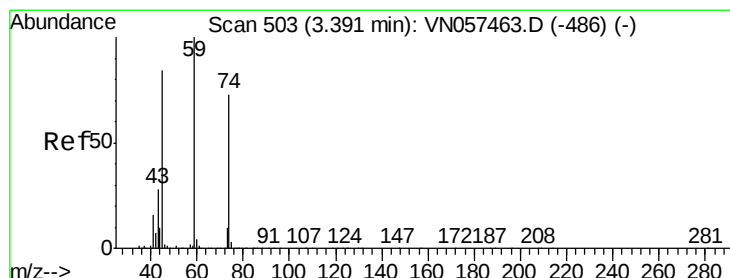
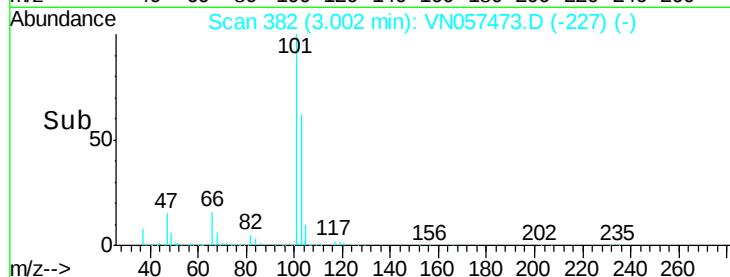
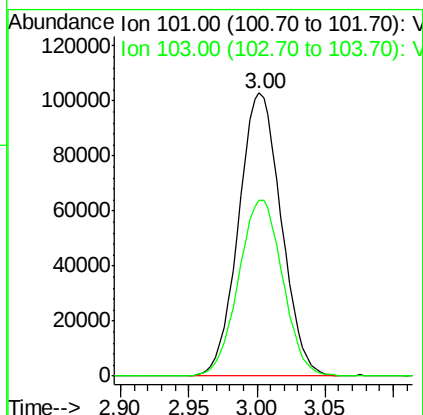
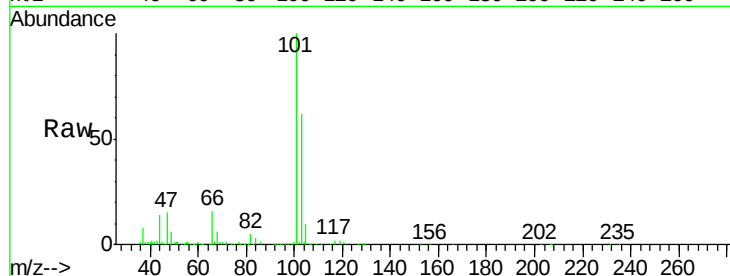
Trichlorofluoromethane
 Concen: 21.085 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
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 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.0	55.0	82.4

Manual Integrations
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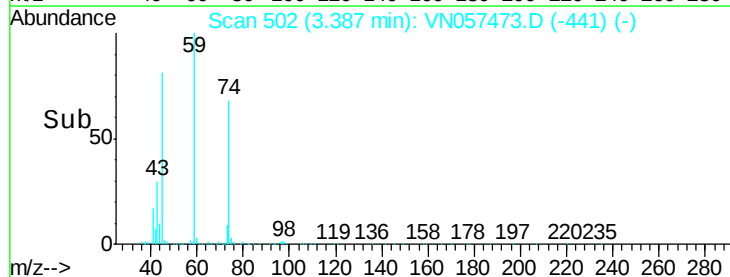
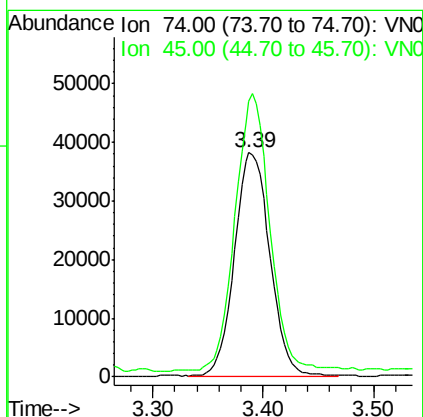
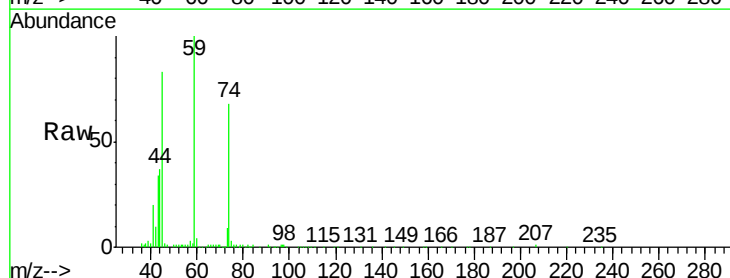
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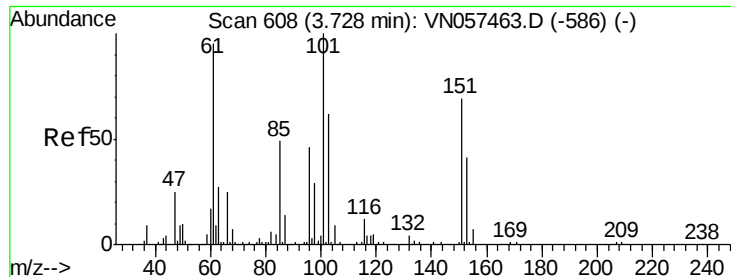


#8

Diethyl Ether
 Concen: 20.667 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
74	100		
45	120.0	23.2	209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.709 ug/l

RT: 3.72 min Scan# 607

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

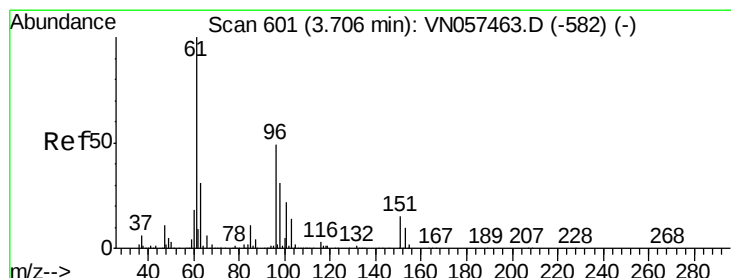
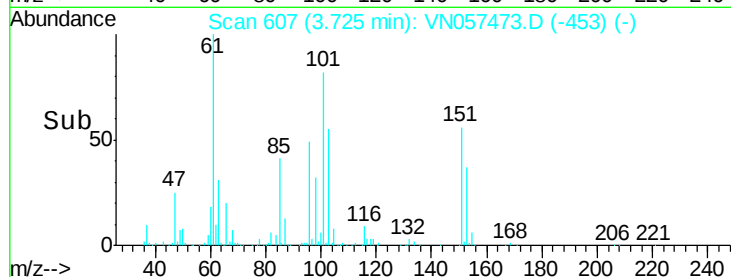
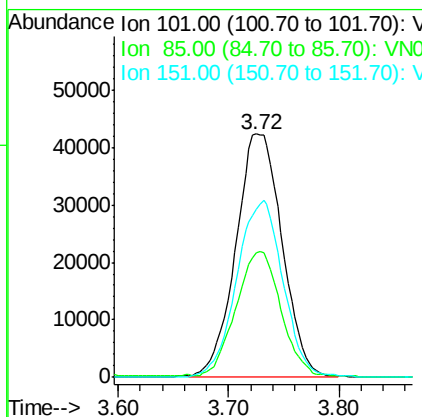
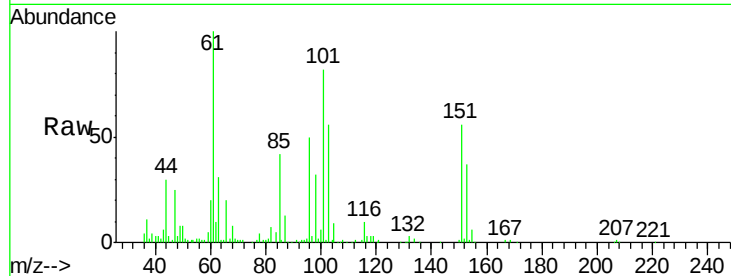
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	123793
Ion Ratio	Lower	Upper	
101	100		
85	48.7	0.0	101.6
151	72.6	0.0	139.4

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#10

1,1-Dichloroethene

Concen: 20.856 ug/l

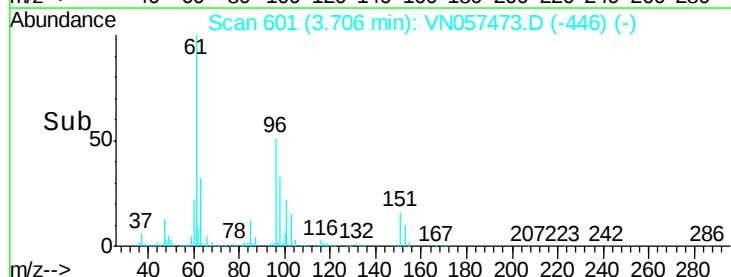
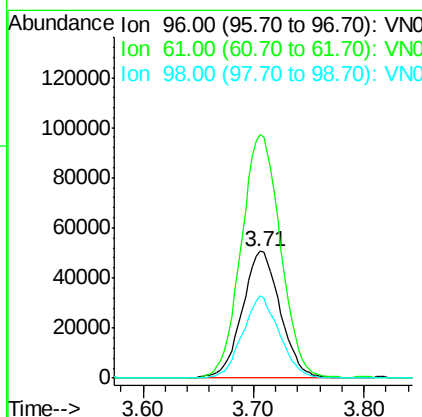
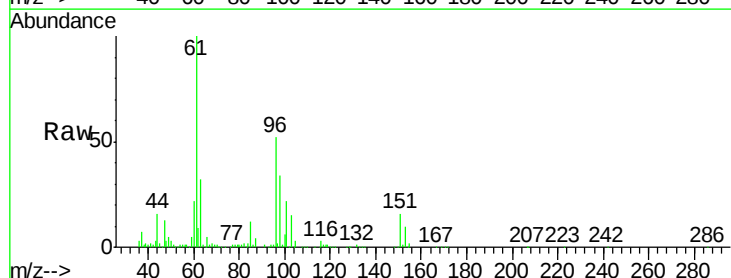
RT: 3.71 min Scan# 601

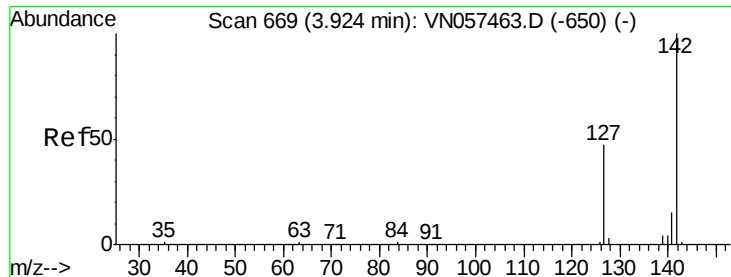
Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	96	Resp:	120364
Ion Ratio	Lower	Upper	
96	100		
61	192.2	162.6	244.0
98	64.8	51.1	76.7





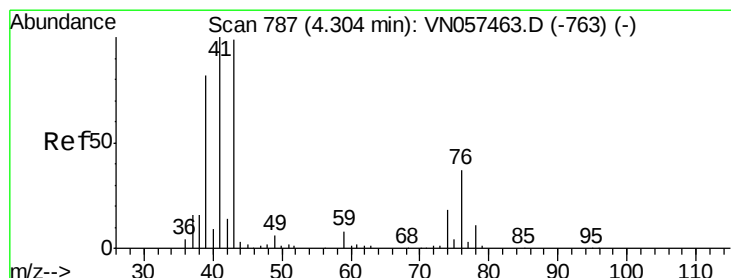
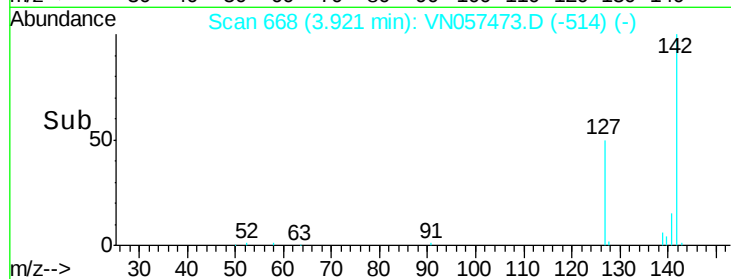
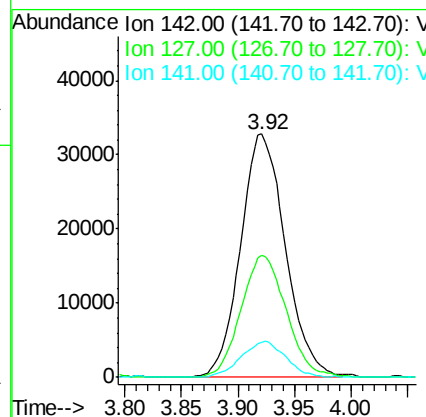
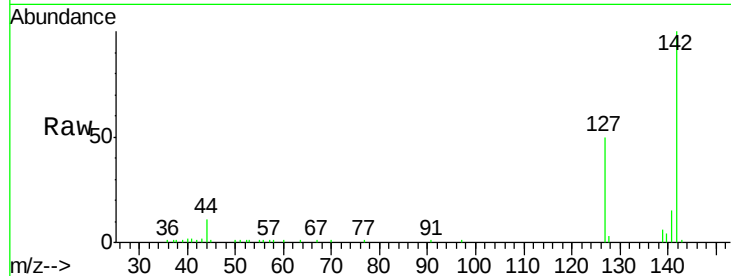
#11
Methvl Iodide
Concen: 17.421 ug/l
RT: 3.92 min Scan# 668
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	50.2	24.0	72.0
141	14.1	7.0	21.1

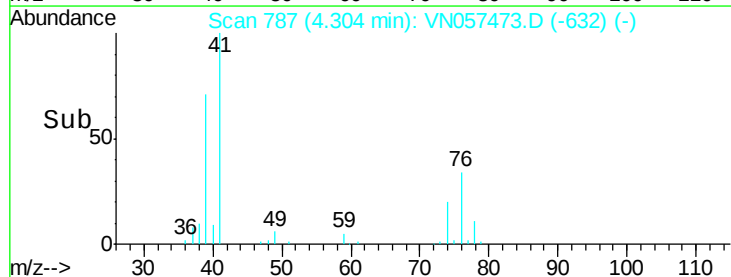
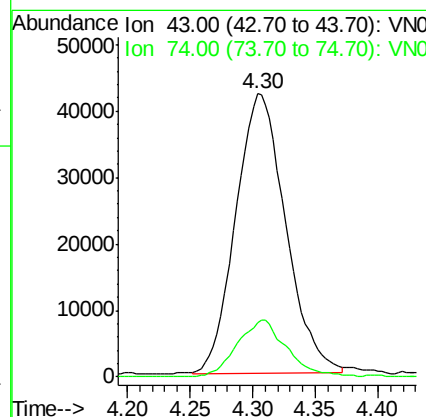
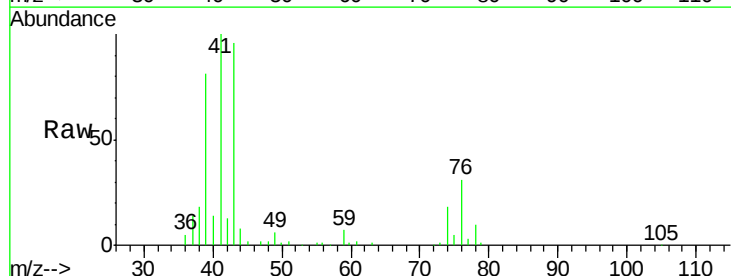
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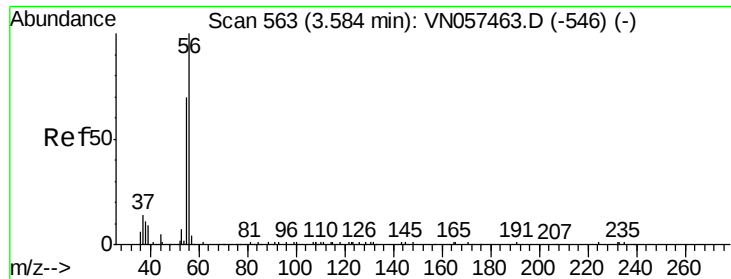
MMDadoda
8/26/2019 1:12:28 PM



#12
Methyl Acetate
Concen: 20.033 ug/l
RT: 4.30 min Scan# 787
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	19.3	14.6	22.0





#13

Acrolein

Concen: 95.805 ug/l

RT: 3.58 min Scan# 563

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 56 Resp: 70835

Ion Ratio Lower Upper

56 100

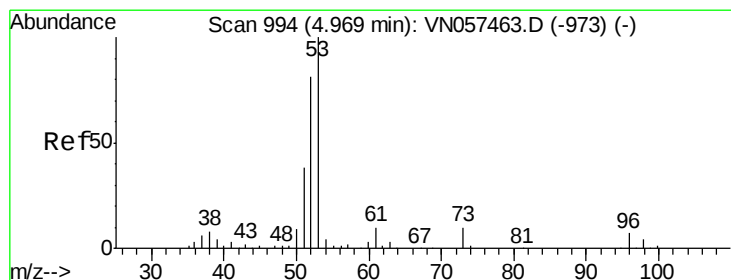
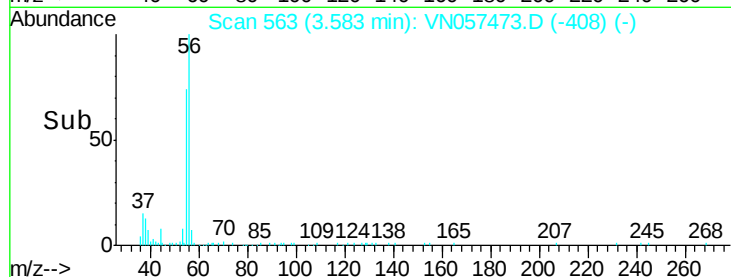
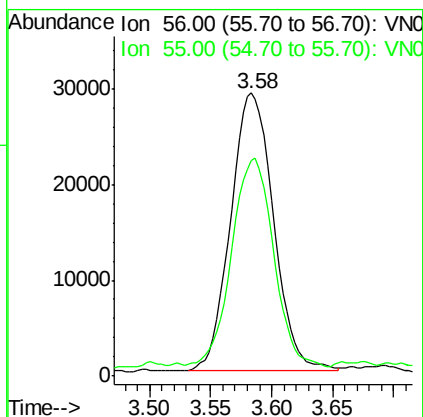
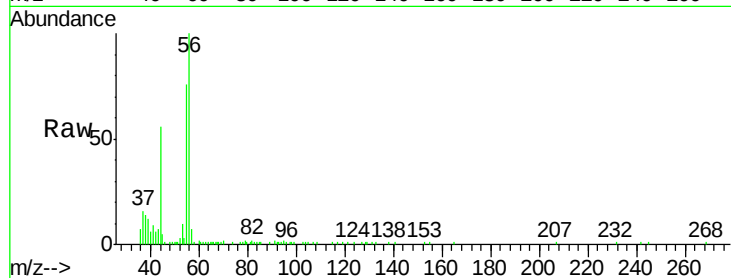
55 73.4 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 105.581 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

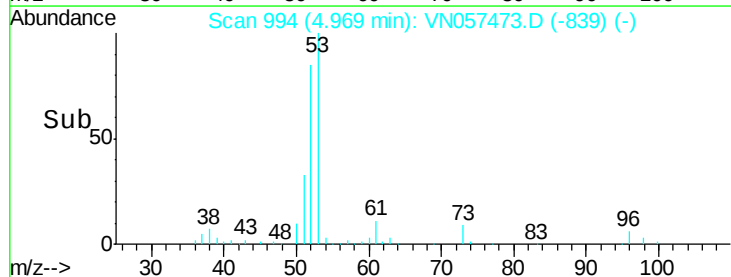
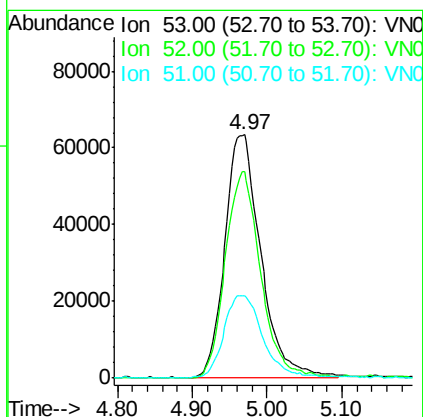
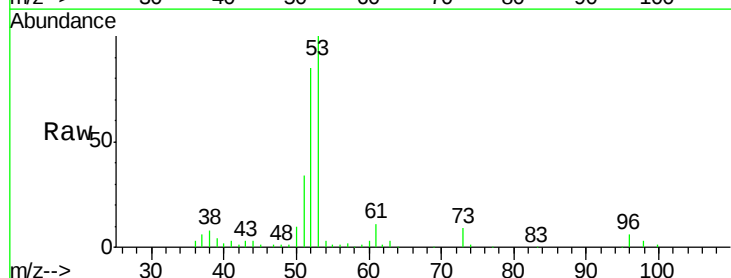
Tgt Ion: 53 Resp: 213236

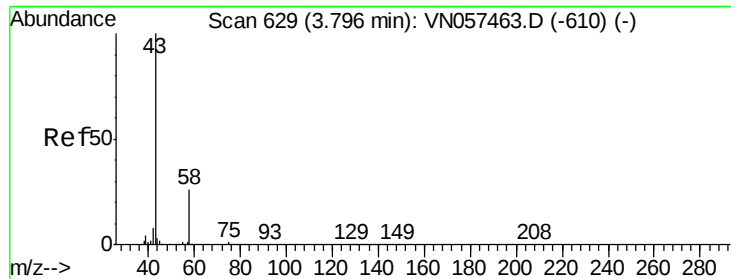
Ion Ratio Lower Upper

53 100

52 82.2 41.3 123.9

51 0.2 18.3 54.9#





#15

Acetone

Concen: 89.310 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 84380

Ion Ratio Lower Upper

58 100

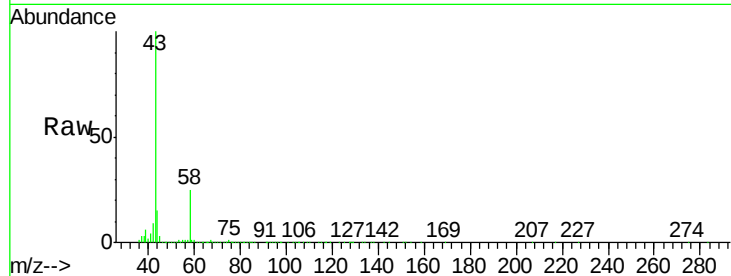
43 395.7 304.4 456.6

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

150000

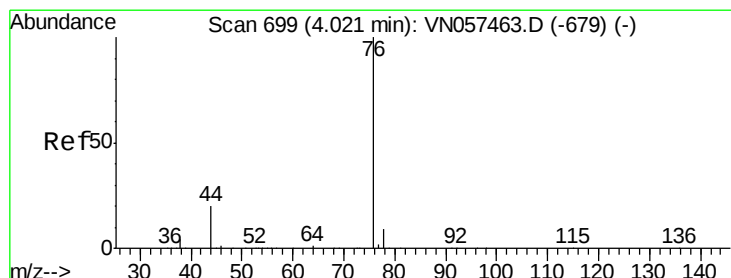
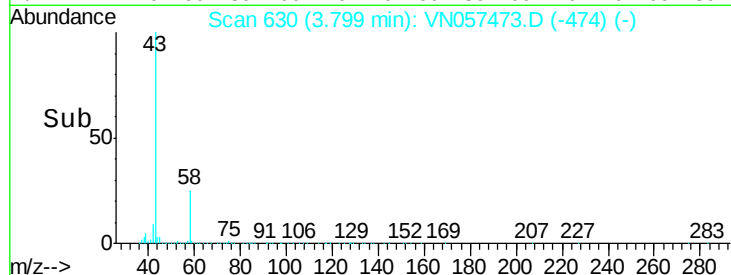
100000

50000

0

3.70 3.75 3.80 3.85 3.90

Time-->



#16

Carbon Disulfide

Concen: 20.084 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.00 min

Lab File: VN057473.D

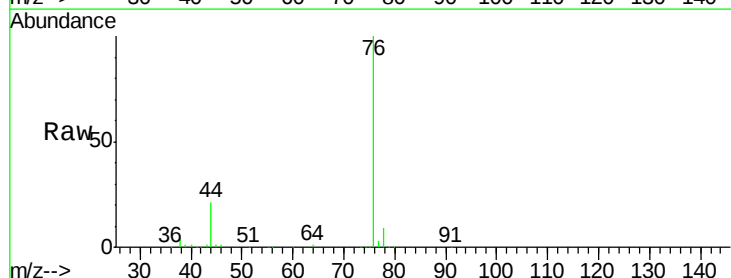
Acq: 23 Aug 2019 14:40

Tgt Ion: 76 Resp: 206450

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

80000

60000

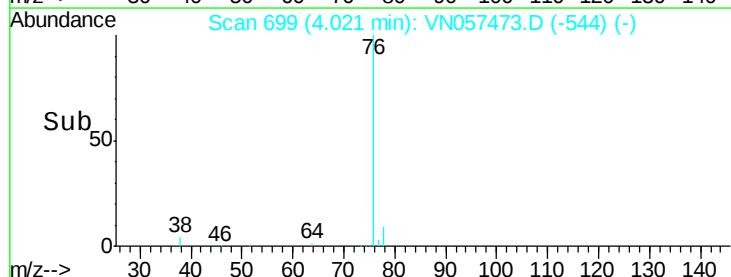
40000

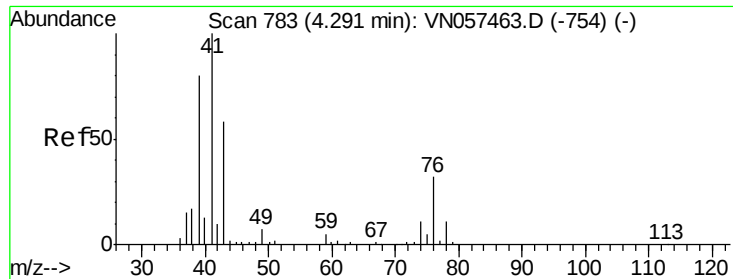
20000

0

3.90 3.95 4.00 4.05 4.10

Time-->





#17

Allvl chloride

Concen: 20.556 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

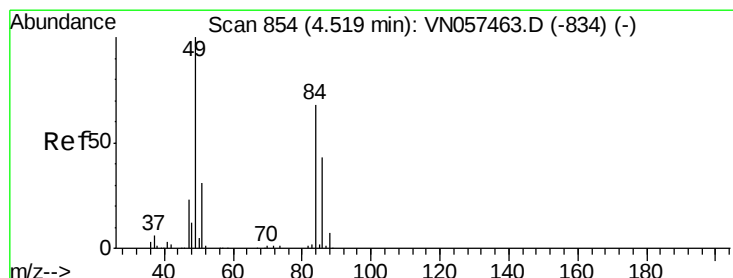
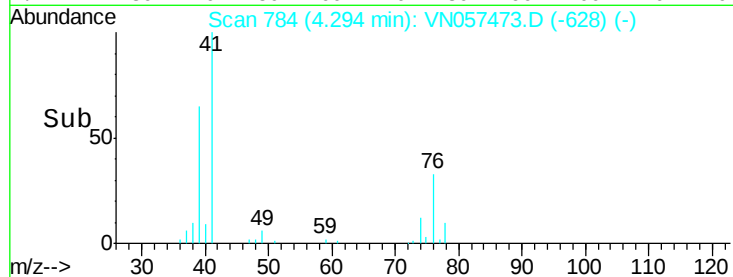
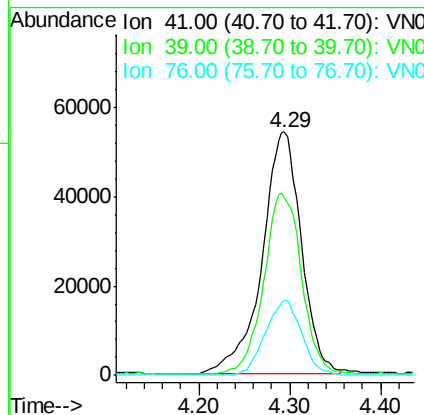
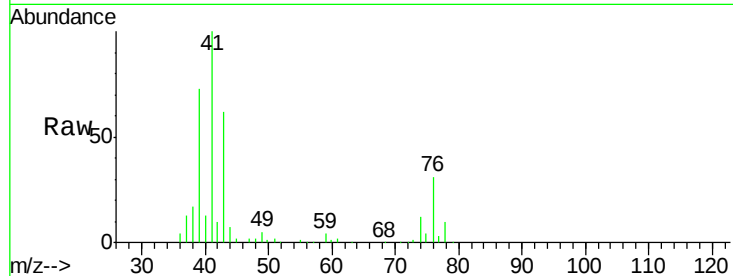
ClientSampleId :

VSTDCCC020EC

Tot Ion:	41	Resp:	161839
Ion	Ratio	Lower	Upper
41	100		
39	73.1	40.1	120.2
76	30.9	16.2	48.6

Manual Integrations
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#18

Methylene Chloride

Concen: 20.899 ug/l m

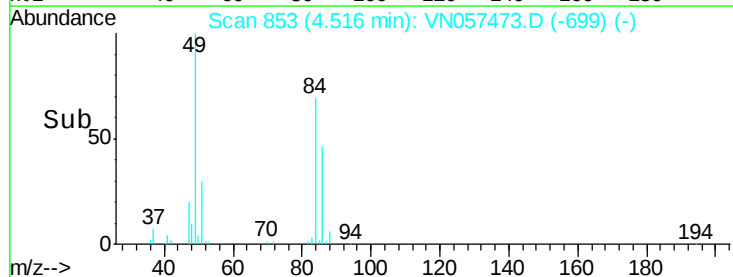
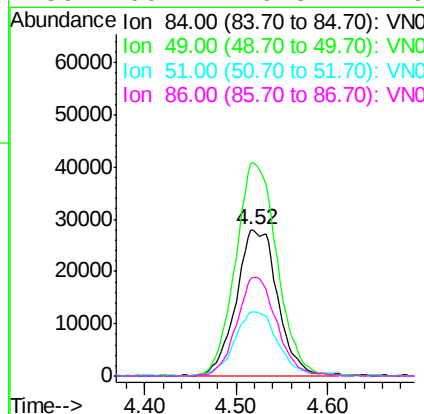
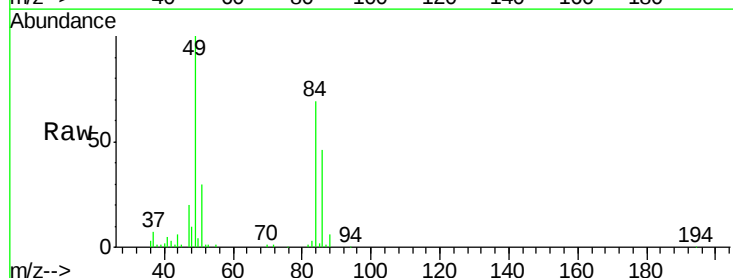
RT: 4.52 min Scan# 853

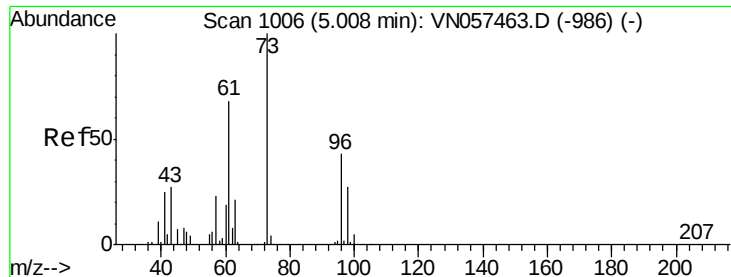
Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	84	Resp:	88452
Ion	Ratio	Lower	Upper
84	100		
49	145.2	116.8	175.2
51	43.6	36.4	54.6
86	66.1	49.8	74.6





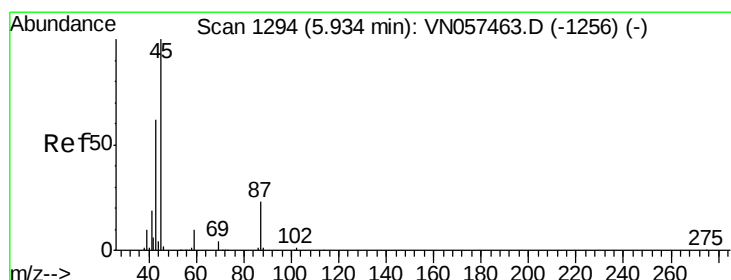
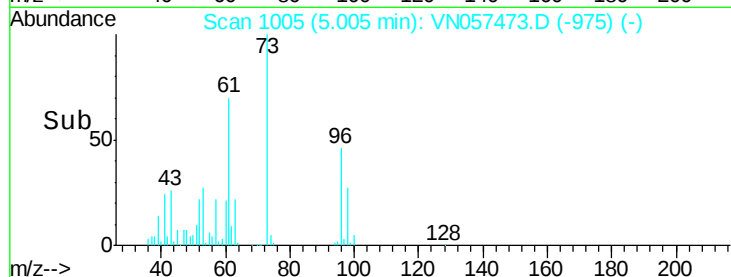
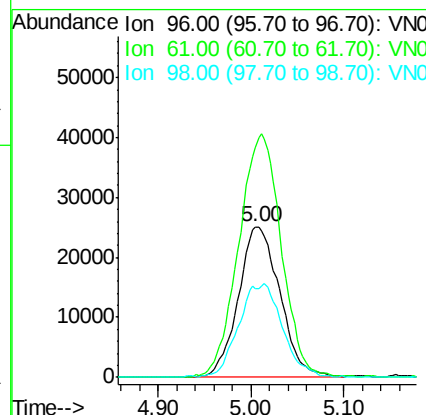
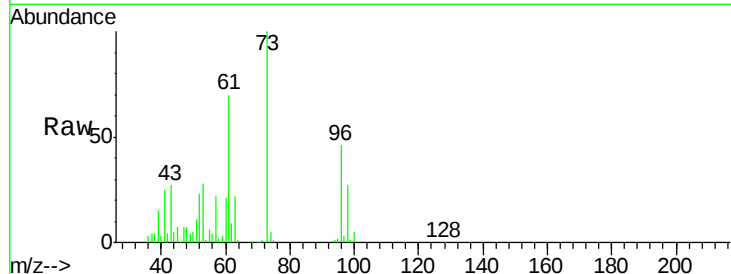
#19
trans-1,2-Dichloroethene
Concen: 19.591 ug/l
RT: 5.00 min Scan# 1005
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.0	127.6	191.4
98	58.2	51.5	77.3

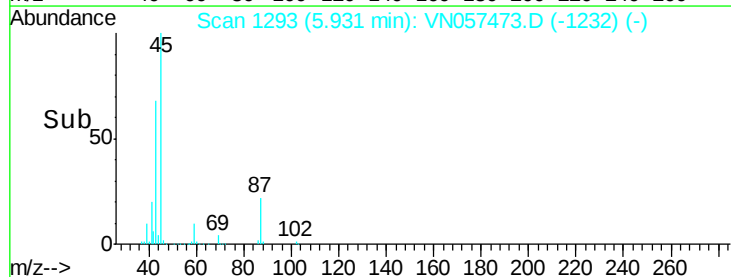
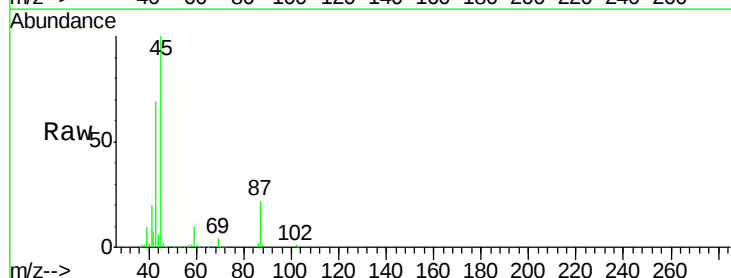
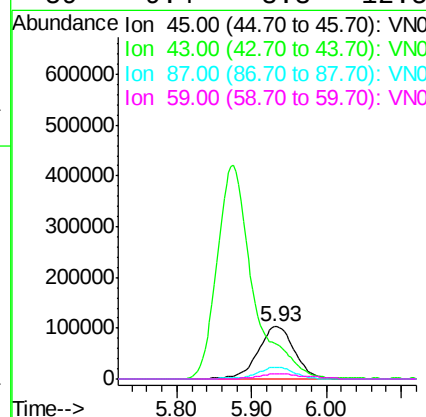
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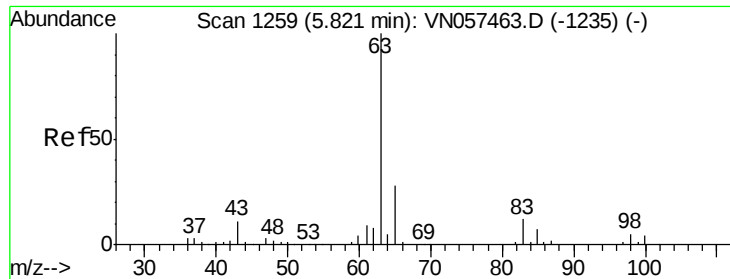
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#20
Diisopropyl ether
Concen: 20.795 ug/l
RT: 5.93 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.4	49.9	74.9
87	21.5	19.1	28.7
59	9.4	8.3	12.5





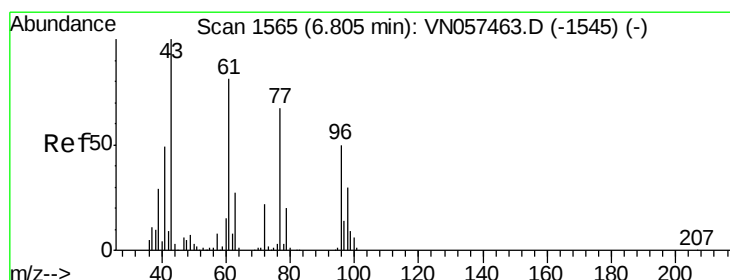
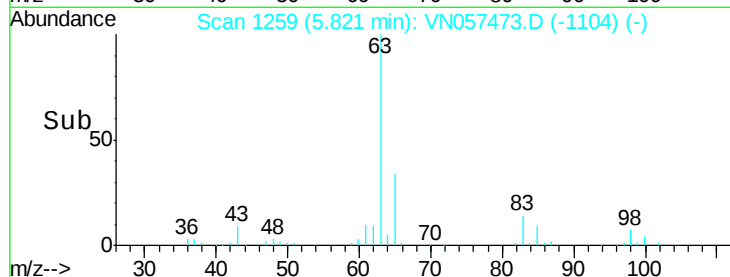
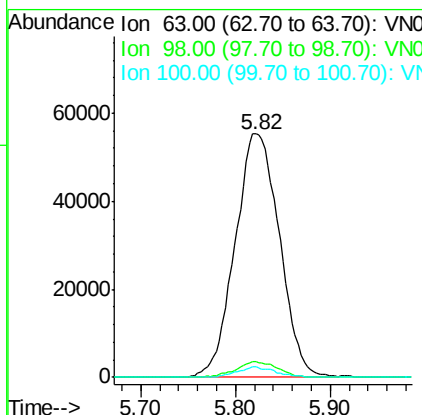
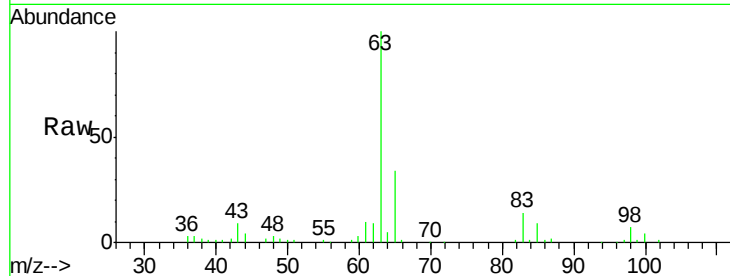
#21
 1,1-Dichloroethane
 Concen: 20.640 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
63	100	180271		
98	6.7	2.4	7.1	
100	4.3	2.1	6.3	

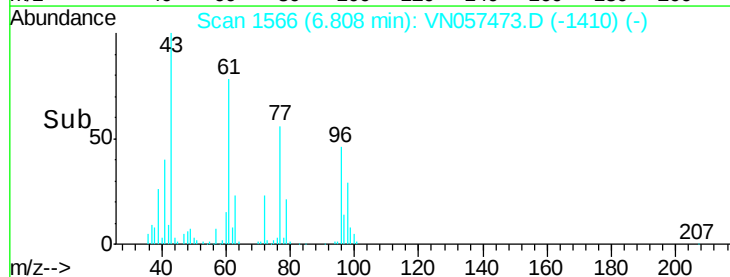
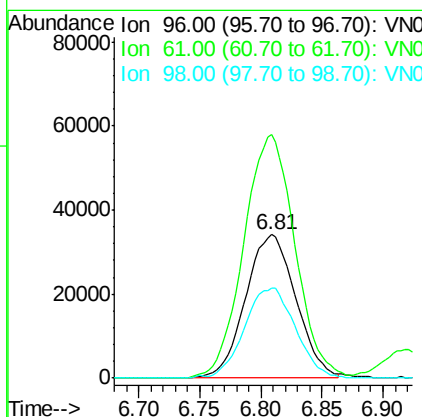
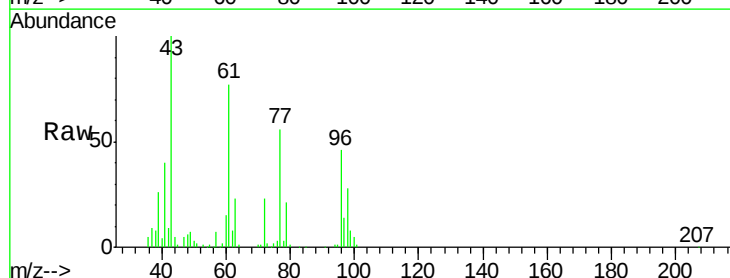
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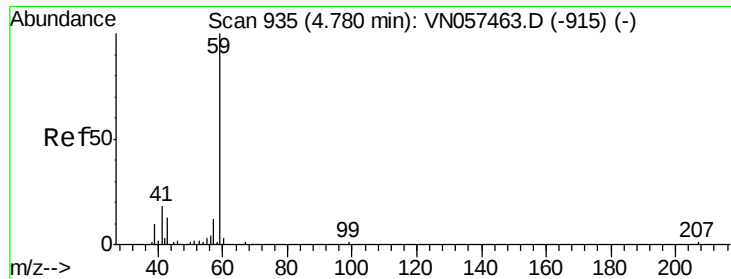
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 8/26/2019 1:12:28 PM



#22
 cis-1,2-Dichloroethene
 Concen: 19.957 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	96741		
61	174.2	134.4	201.6	
98	63.2	51.4	77.0	





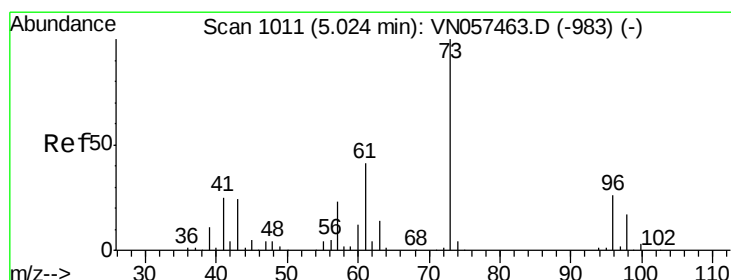
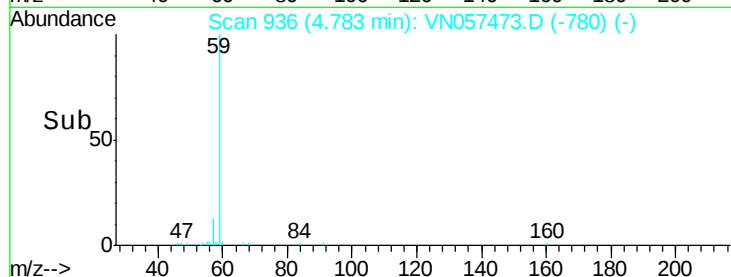
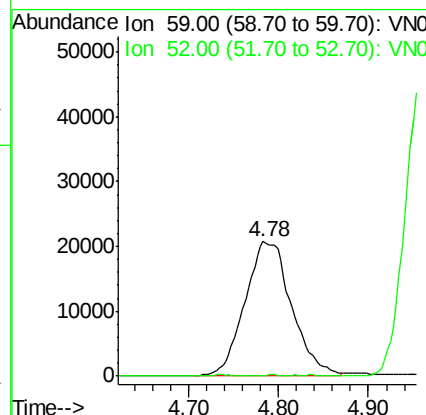
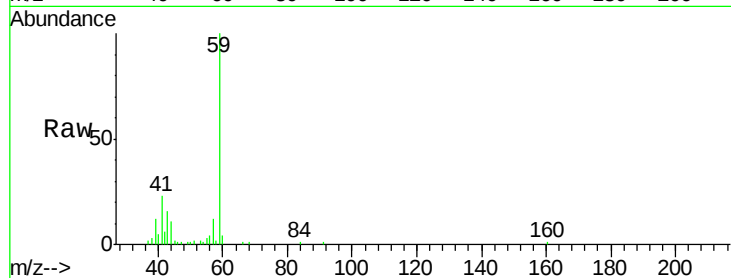
#23
 tert-Butyl Alcohol
 Concen: 102.091 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 59 Resp: 74898
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.1 0.1#

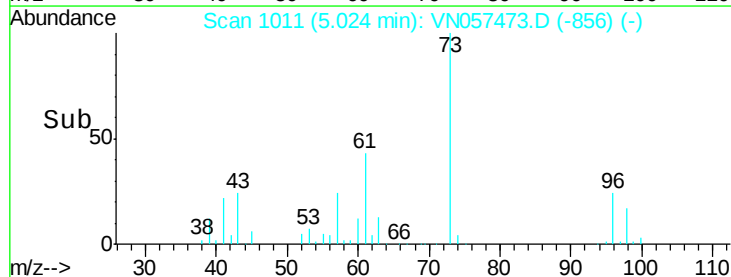
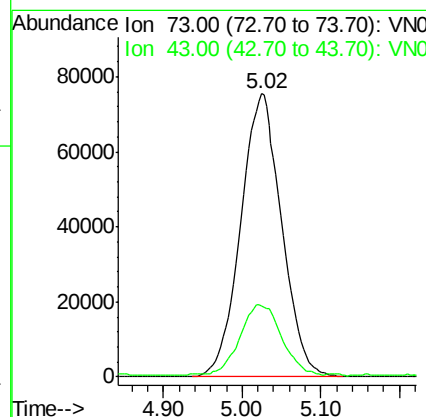
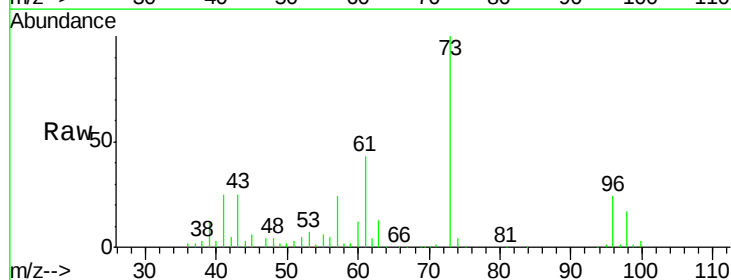
Manual Integrations
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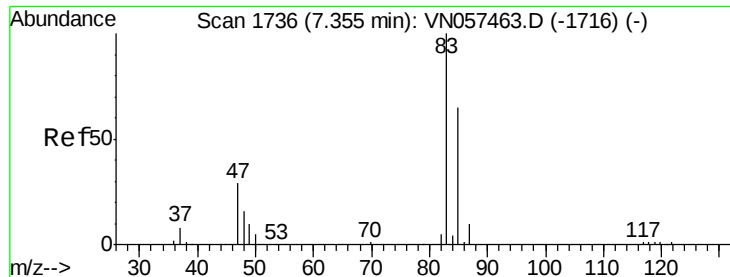
MMDadoda
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#24
 Methyl tert-Butyl Ether
 Concen: 20.675 ug/l
 RT: 5.02 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion: 73 Resp: 275664
 Ion Ratio Lower Upper
 73 100
 43 24.7 20.1 30.1





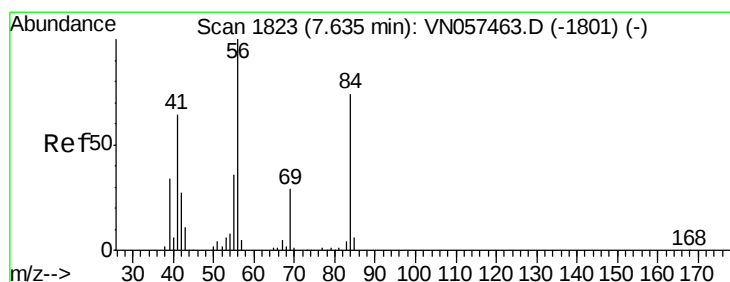
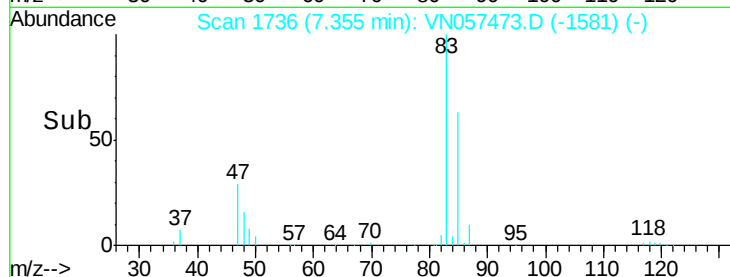
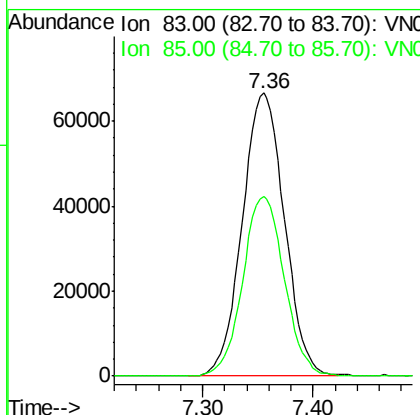
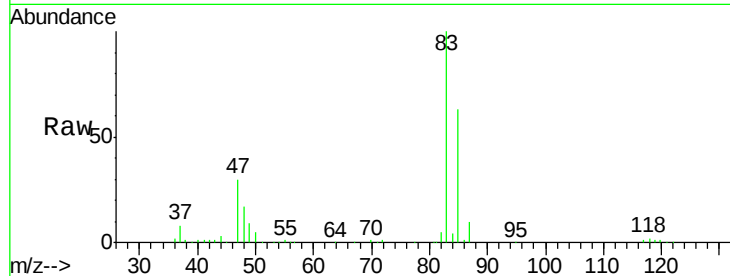
#25
Chloroform
Concen: 20.334 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	176329
Ion Ratio	100	Lower	Upper
83	100		
85	63.5	52.0	78.0

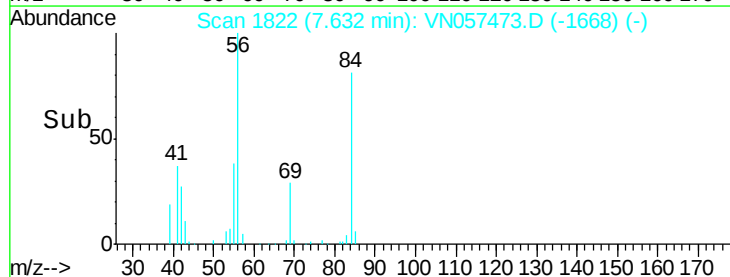
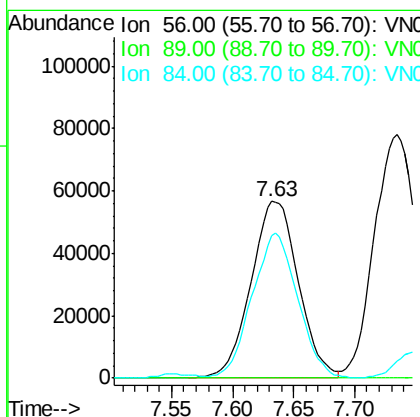
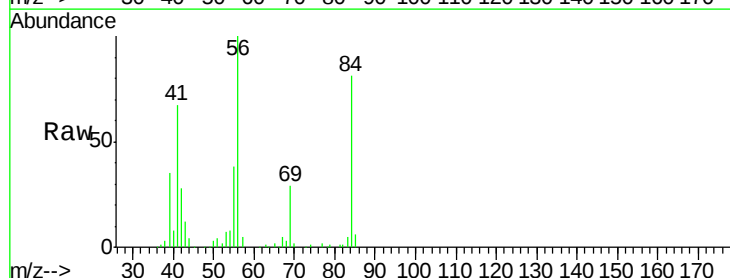
Manual Integrations
APPROVED

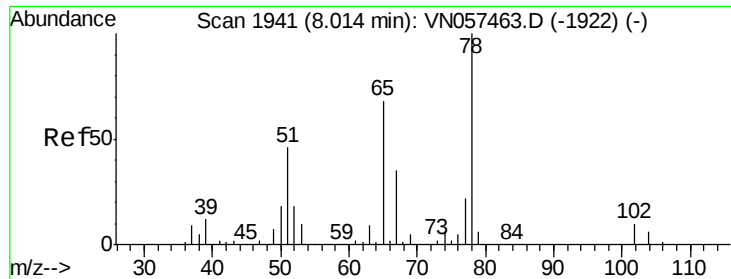
MMDadoda
8/26/2019 1:12:28 PM



#26
Cyclohexane
Concen: 19.631 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	56	Resp	152677
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	78.3	61.1	91.7





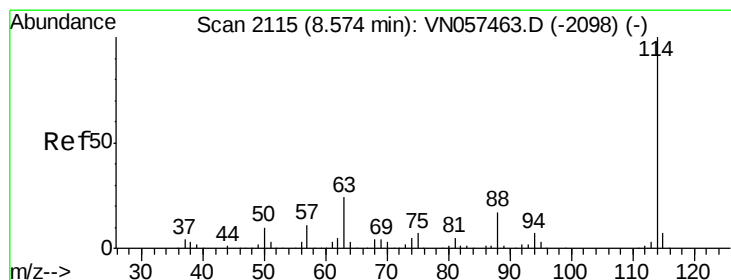
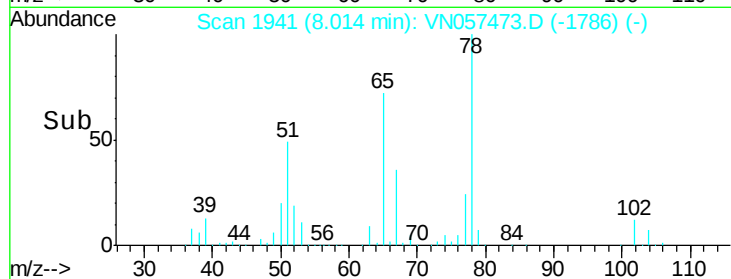
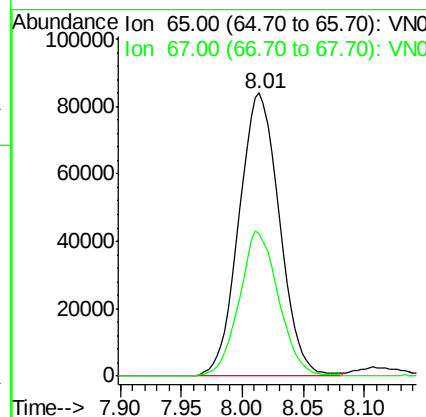
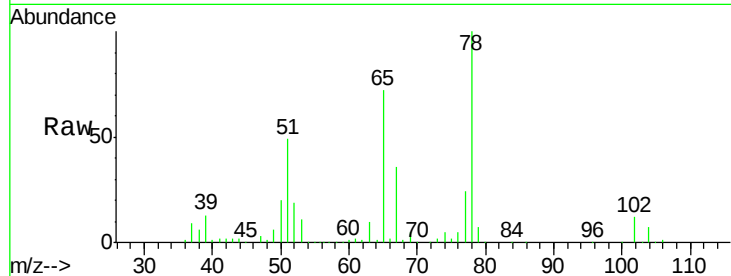
#27
 1,2-Dichloroethane-d4
 Concen: 30.009 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	193432		
67	49.7	40.2	60.4	

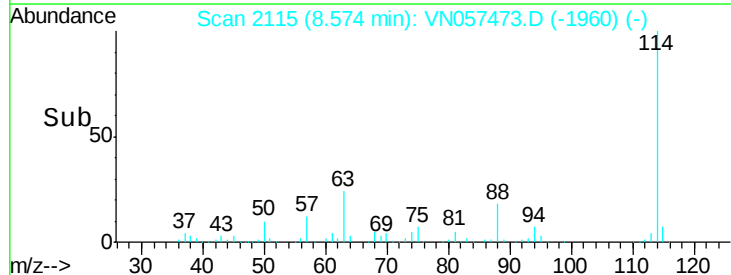
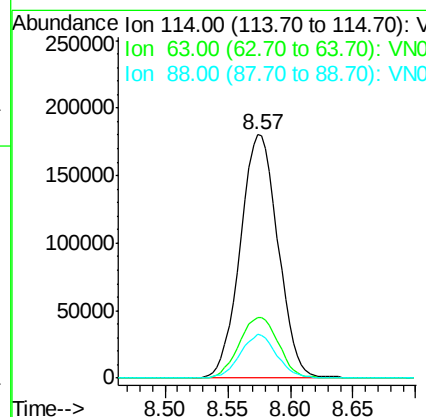
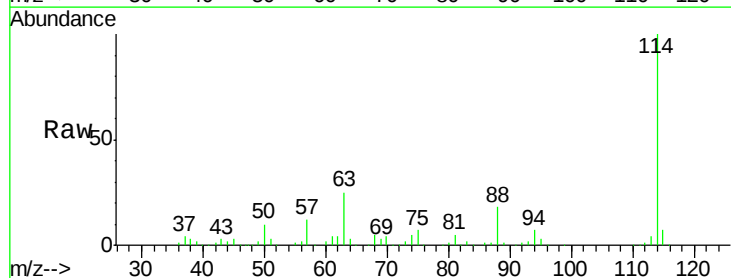
Manual Integrations
 APPROVED

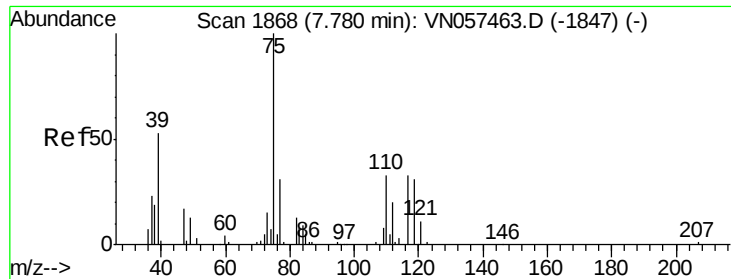
MMDadoda
 8/26/2019 1:12:28 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	377977		
63	25.8	19.6	29.4	
88	17.4	13.1	19.7	





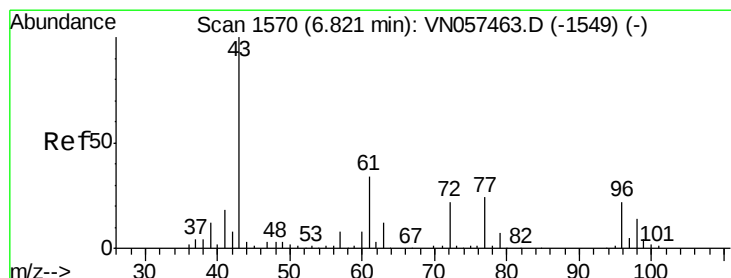
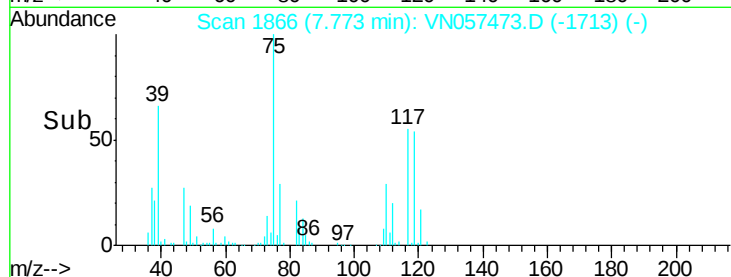
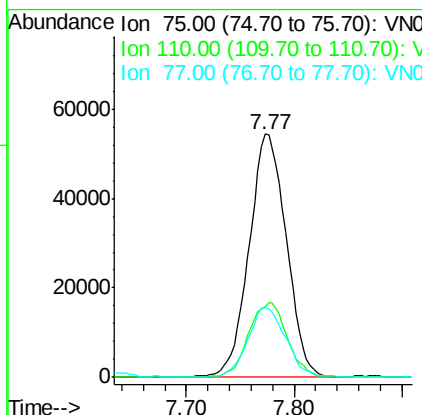
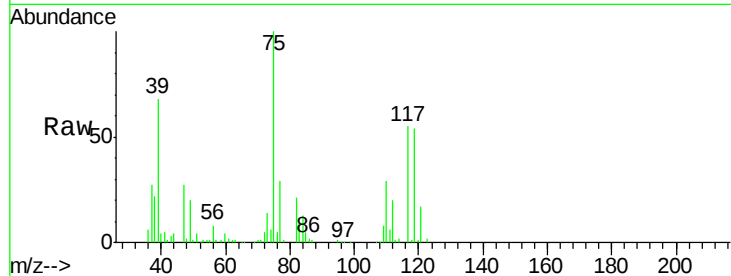
#29
 1,1-Dichloropropene
 Concen: 20.336 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. -0.01 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	31.5	0.0	64.0
77	29.7	0.0	63.4

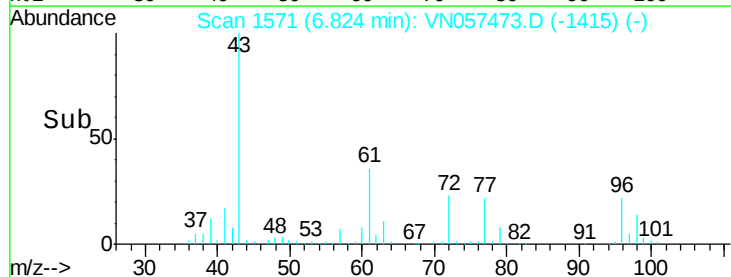
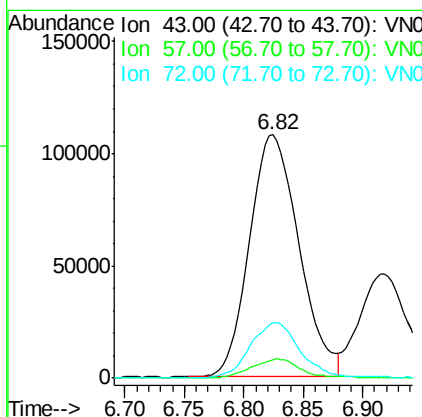
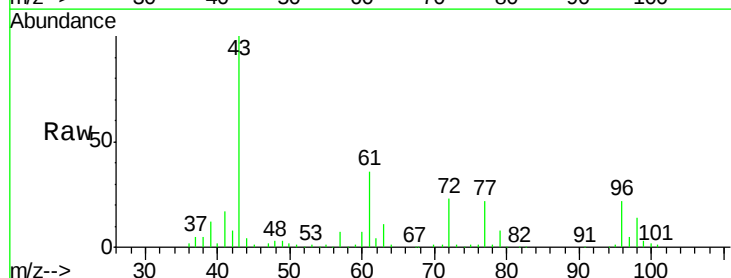
Manual Integrations
 APPROVED

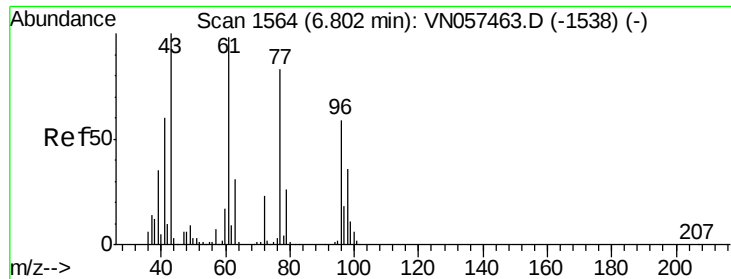
MMDadoda
 8/26/2019 1:12:28 PM



#30
 2-Butanone
 Concen: 100.826 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.9	5.7	8.5
72	22.9	18.2	27.2





#31

2,2-Dichloropropane

Concen: 19.484 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 77 Resp: 143002

Ion Ratio Lower Upper

77 100

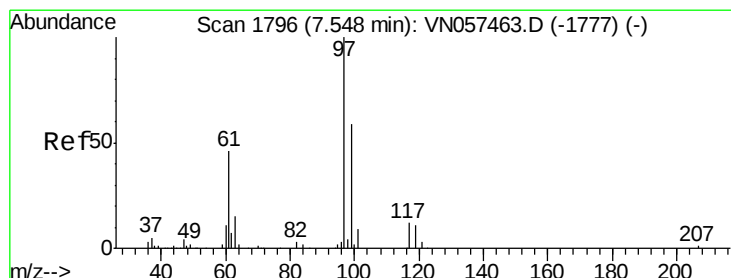
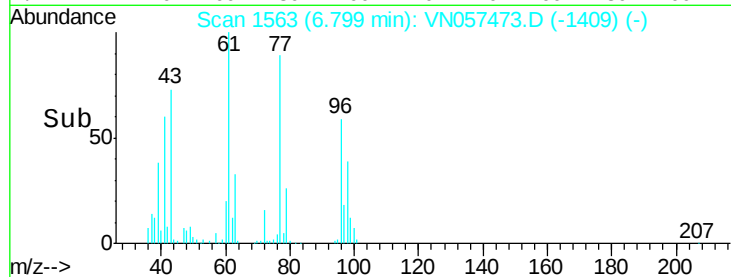
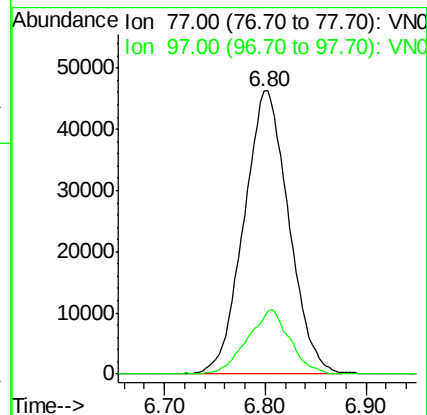
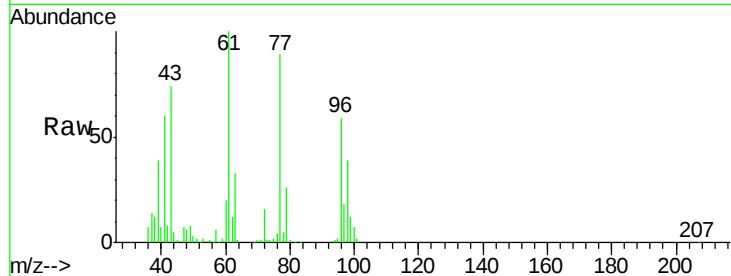
97 21.5 17.0 25.4

Manual Integrations

APPROVED

MMDadoda

8/26/2019 1:12:28 PM



#32

1,1,1-Trichloroethane

Concen: 20.727 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

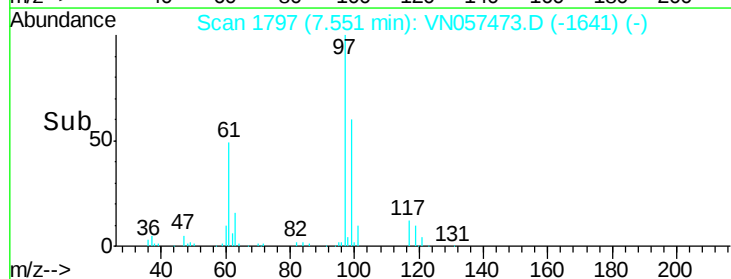
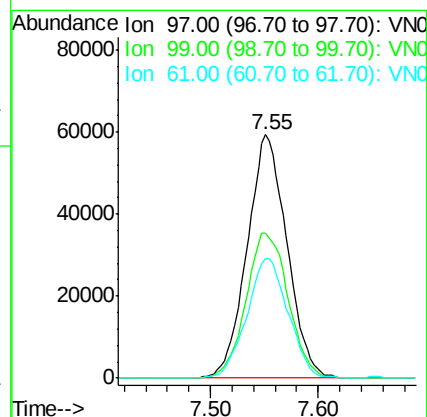
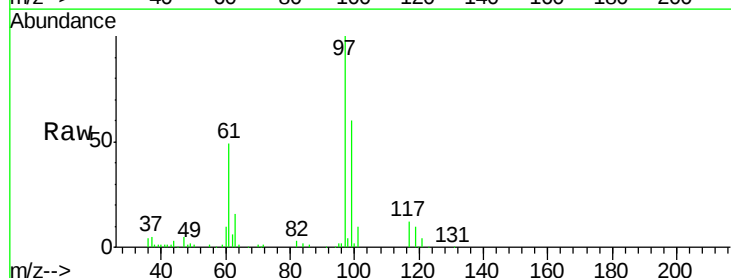
Tgt Ion: 97 Resp: 152210

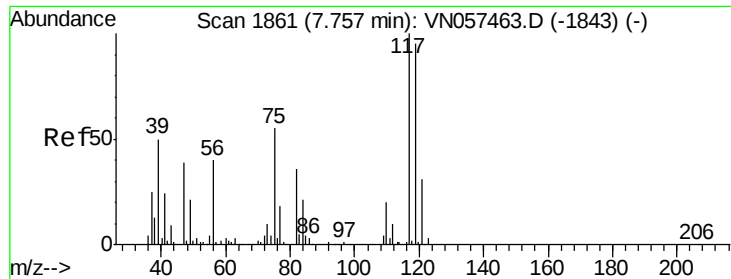
Ion Ratio Lower Upper

97 100

99 63.1 49.6 74.4

61 50.9 40.9 61.3





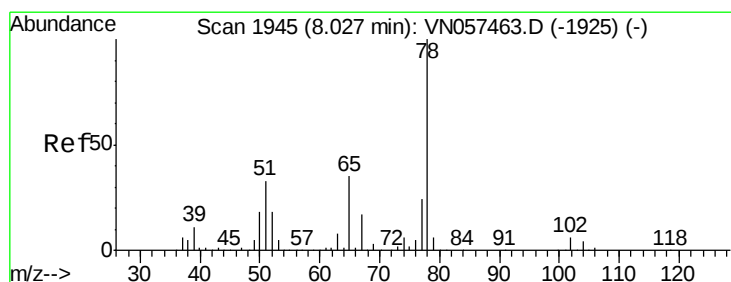
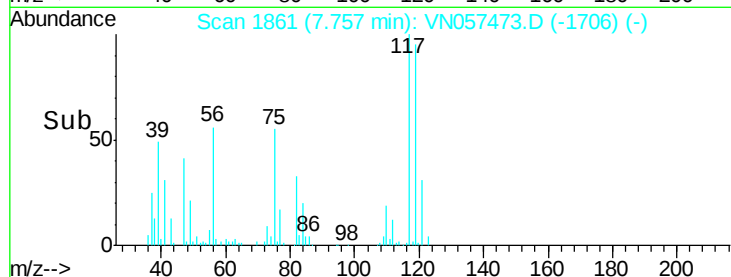
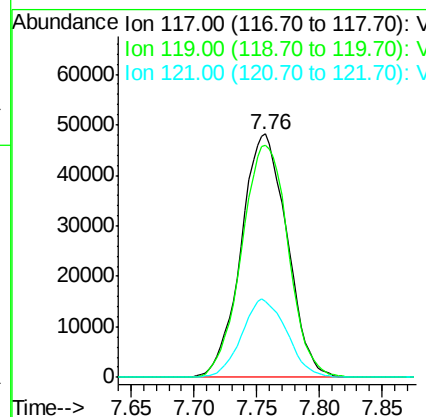
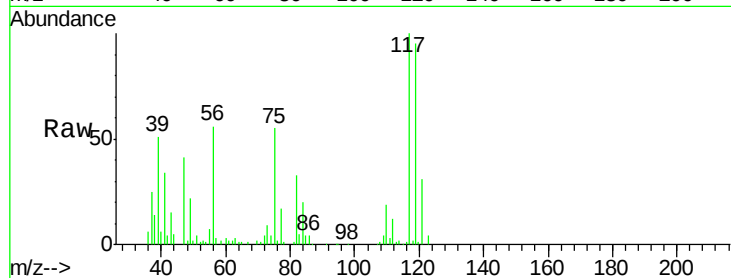
#33
Carbon Tetrachloride
Concen: 20.137 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
117	100		122796		
119	95.4	76.8	115.2		
121	31.0	24.8	37.2		

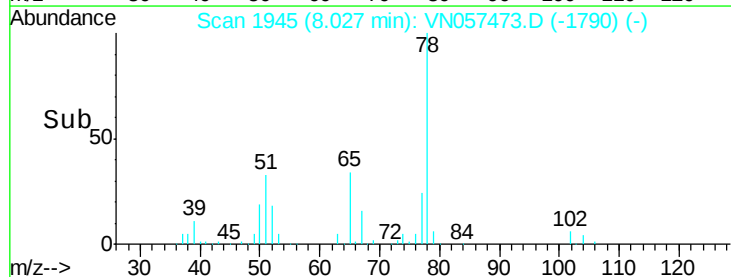
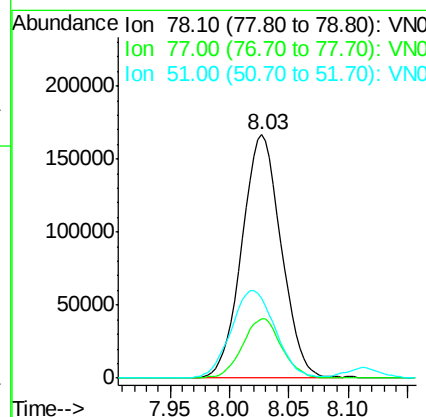
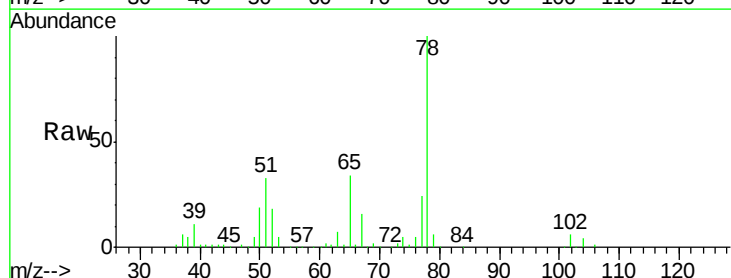
Manual Integrations
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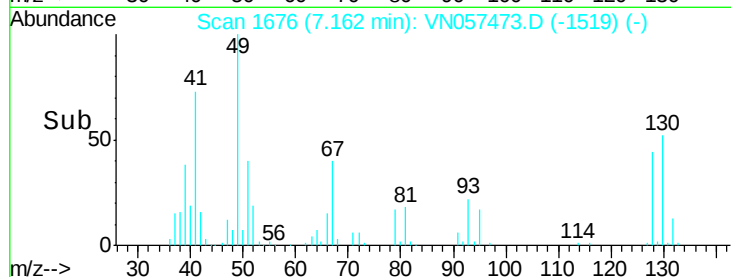
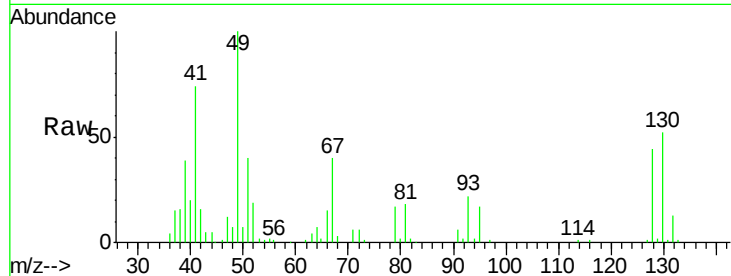
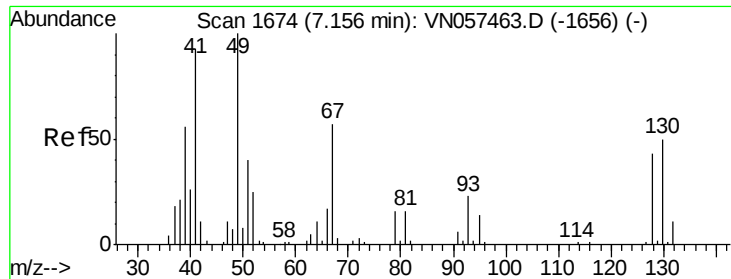
MMDadoda
8/26/2019 1:12:28 PM



#34
Benzene
Concen: 20.211 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
78	100		381792		
77	24.3	19.5	29.3		
51	32.4	26.0	39.0		





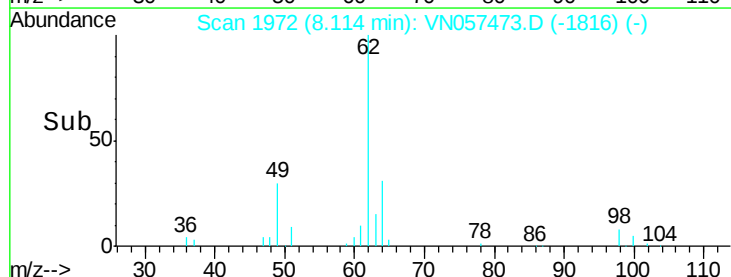
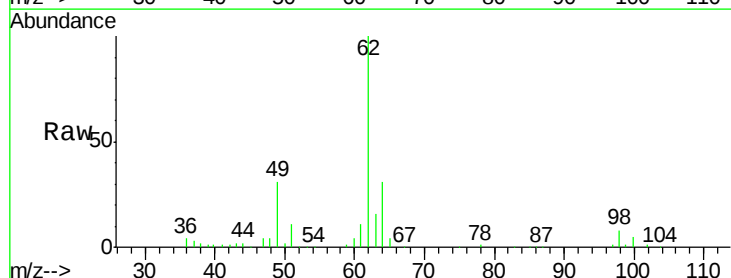
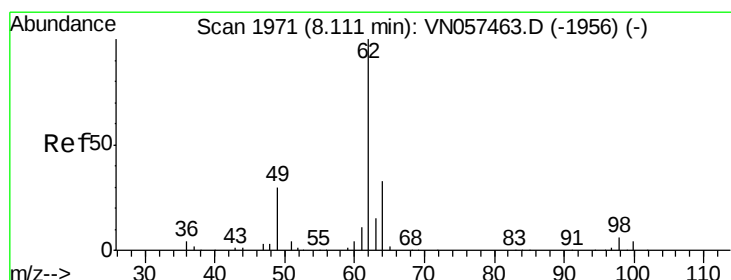
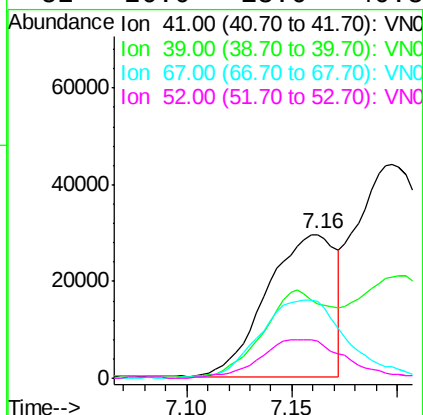
#35
Methacrylonitrile
Concen: 21.306 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tot Ion	41	Resp	66597
Ion Ratio	Lower	Upper	
41	100		
39	51.4	30.5	91.5
67	53.4	30.9	92.5
52	26.0	13.6	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

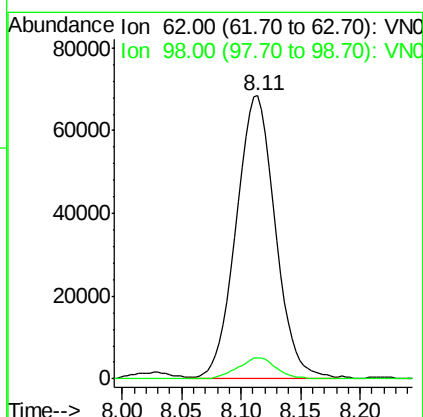
Manual Integrations
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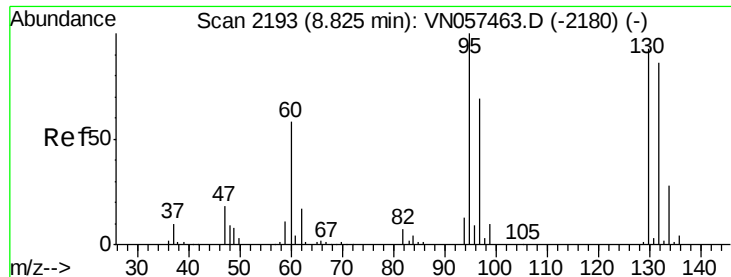
MMDadoda
8/26/2019 1:12:28 PM



#36
1,2-Dichloroethane
Concen: 21.177 ug/l
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	62	Resp	156815
Ion Ratio	Lower	Upper	
62	100		
98	7.3	2.8	4.2#





#37

Trichloroethene

Concen: 20.088 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:130 Resp: 86574

Ion Ratio Lower Upper

130 100

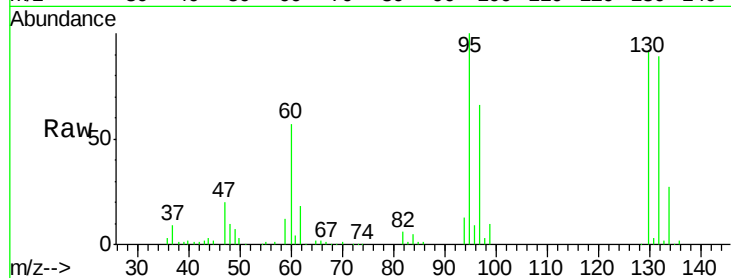
95 108.8 86.4 129.6

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.82

50000

40000

30000

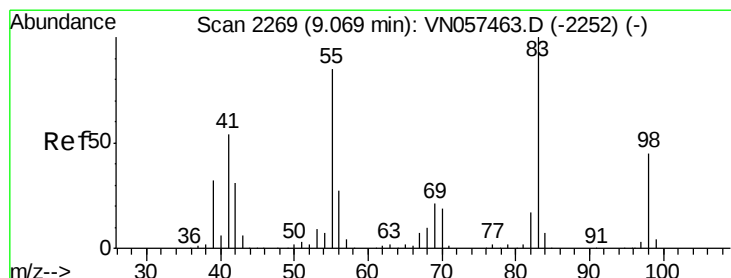
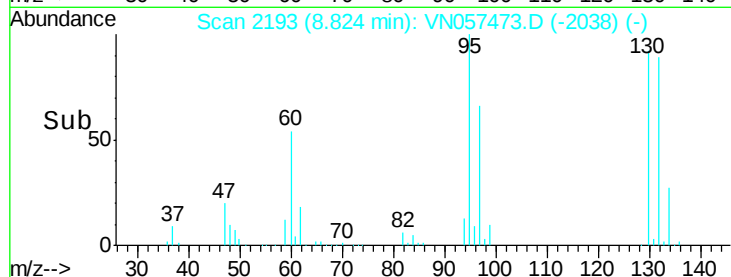
20000

10000

0

8.75 8.80 8.85 8.90

Time-->



#38

Methylcyclohexane

Concen: 19.585 ug/l

RT: 9.07 min Scan# 2270

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

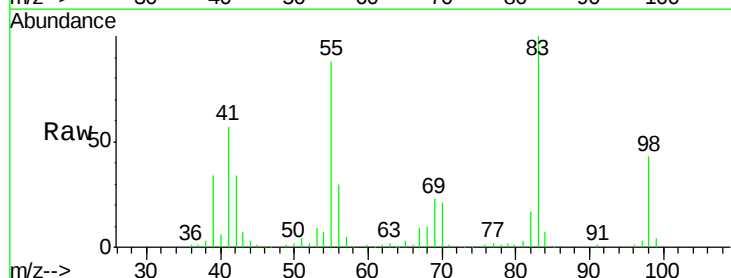
Tgt Ion: 83 Resp: 141209

Ion Ratio Lower Upper

83 100

55 86.8 43.3 129.8

98 43.7 22.8 68.4



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.07

80000

60000

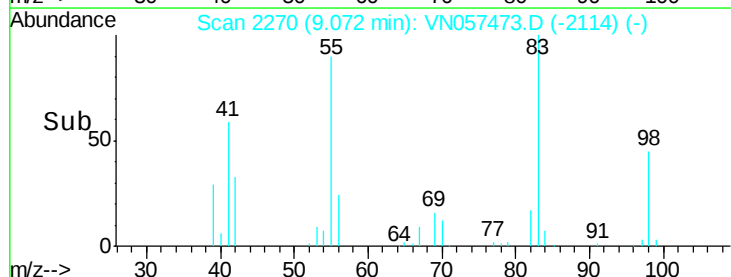
40000

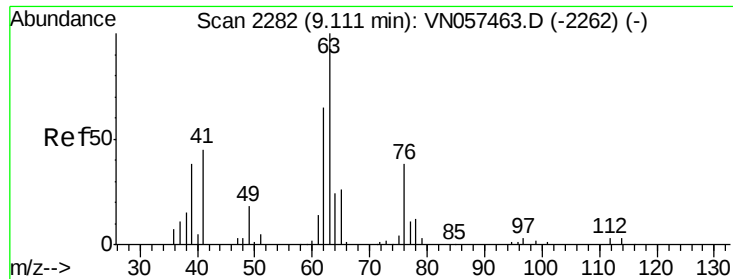
20000

0

9.00 9.05 9.10 9.15

Time-->





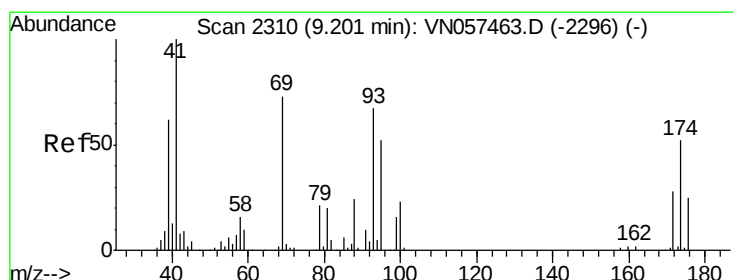
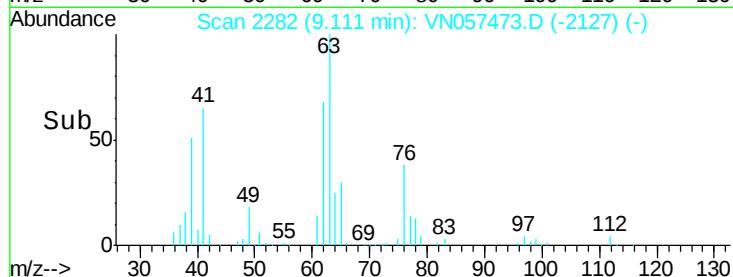
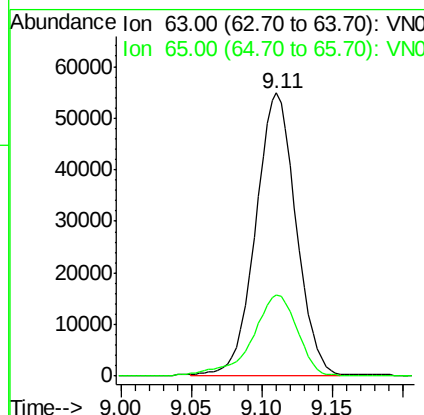
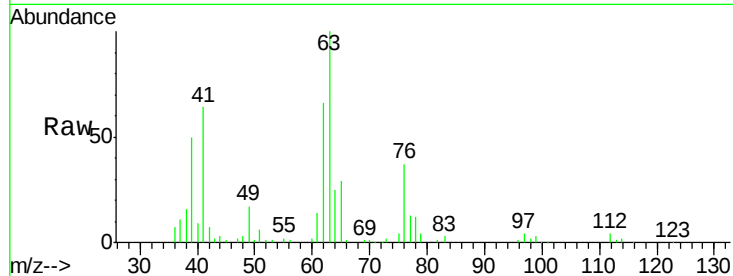
#39
 1,2-Dichloropropane
 Concen: 20.473 ug/l
 RT: 9.11 min Scan# 2282
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion: 63 Resp: 109964
 Ion Ratio Lower Upper
 63 100
 65 28.7 21.6 32.4

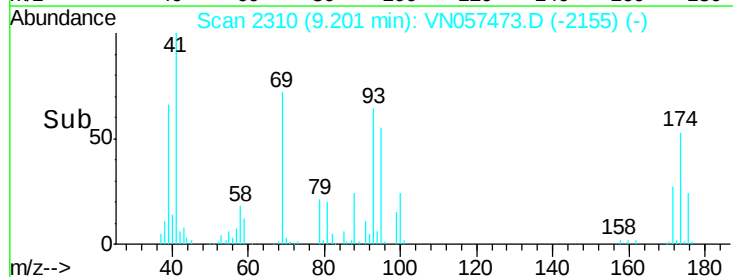
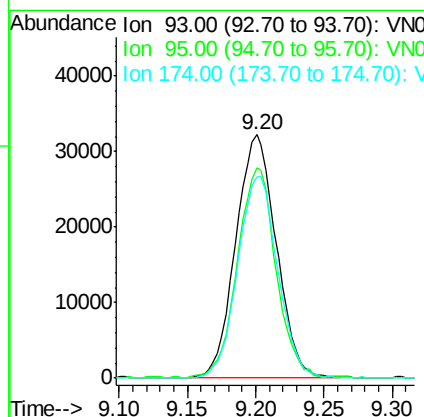
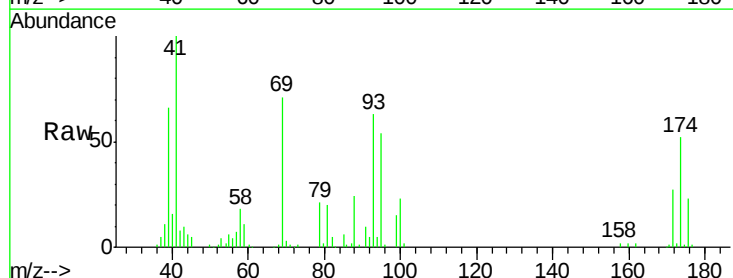
Manual Integrations
 APPROVED

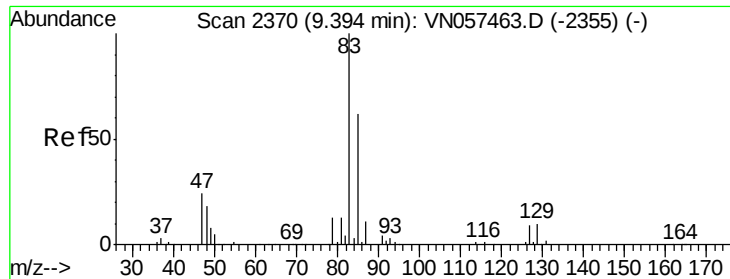
MMDadoda
 8/26/2019 1:12:28 PM



#40
 Dibromomethane
 Concen: 20.313 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion: 93 Resp: 66682
 Ion Ratio Lower Upper
 93 100
 95 82.2 0.0 160.8
 174 81.7 0.0 157.2





#41

Bromodichloromethane

Concen: 19.685 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

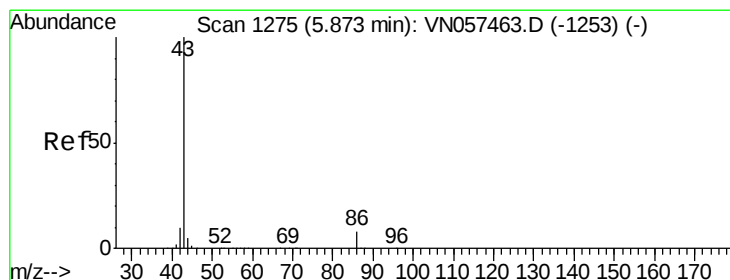
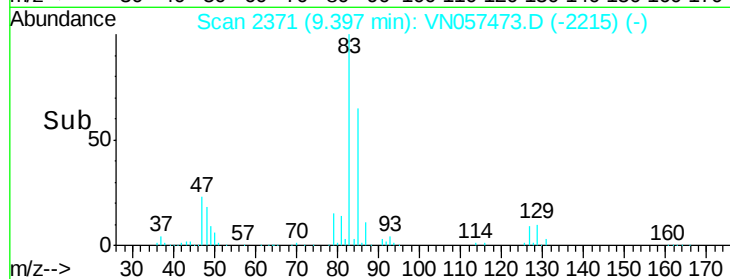
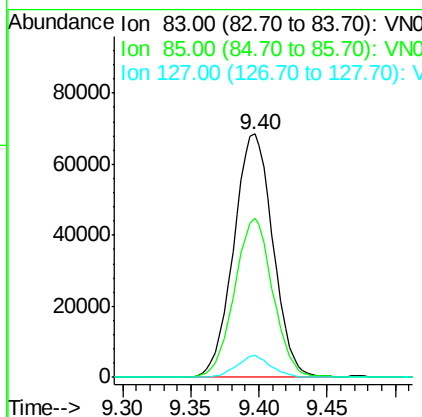
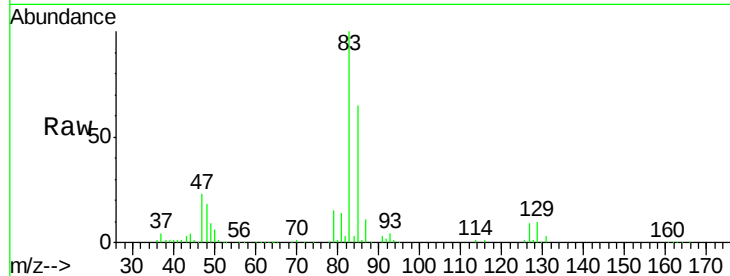
ClientSampleId :

VSTDCCC020EC

Tot Ion:	83	Resp:	137053
Ion Ratio	Lower	Upper	
83	100		
85	65.4	49.8	74.8
127	10.0	7.6	11.4

Manual Integrations
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8/26/2019 1:12:28 PM



#42

Vinyl Acetate

Concen: 101.565 ug/l

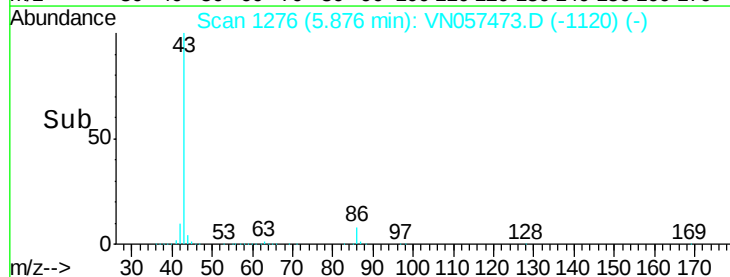
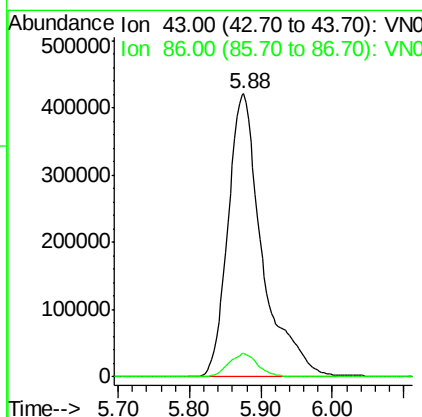
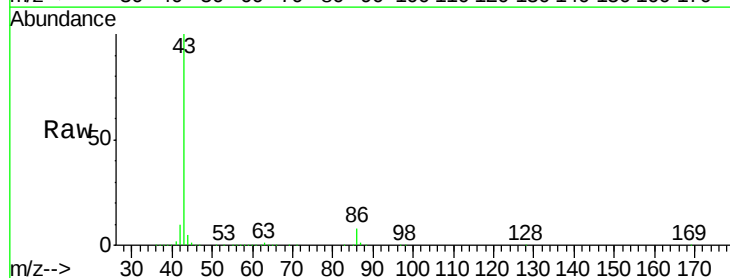
RT: 5.88 min Scan# 1276

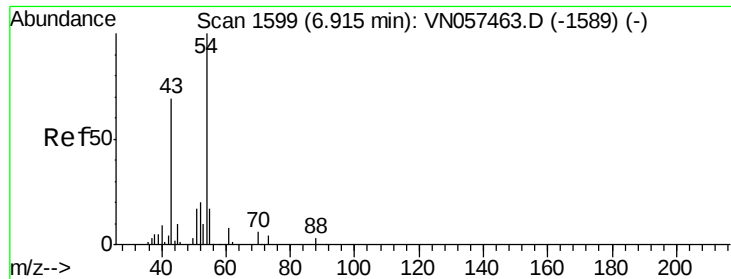
Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	43	Resp:	1403748
Ion Ratio	Lower	Upper	
43	100		
86	7.1	5.7	8.5





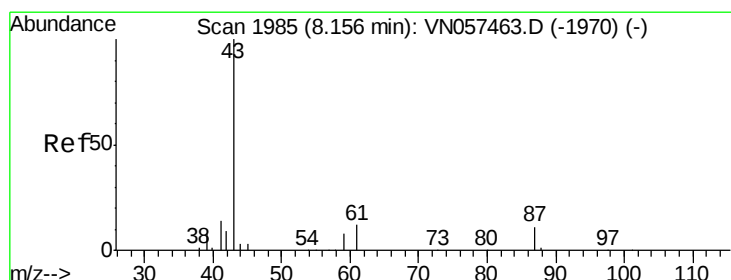
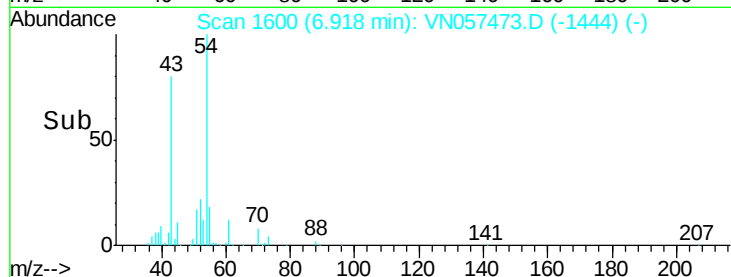
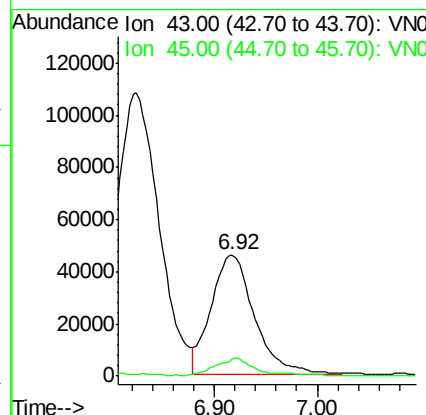
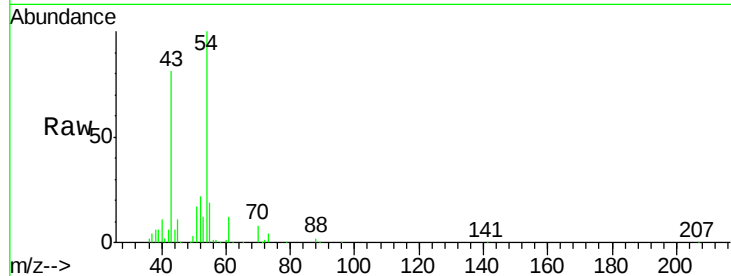
#43
Ethyl Acetate
Concen: 22.648 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	43	45	Ratio	Lower	Upper
136152	100	11.9		11.0	16.4

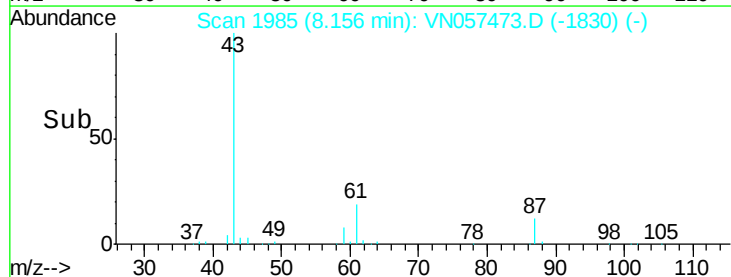
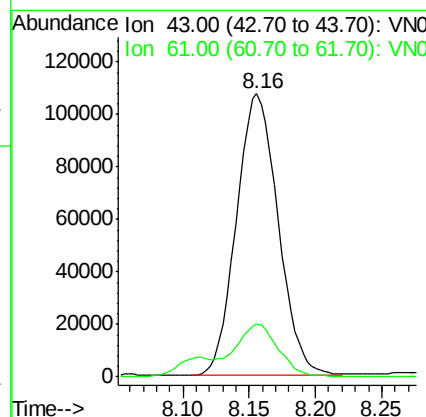
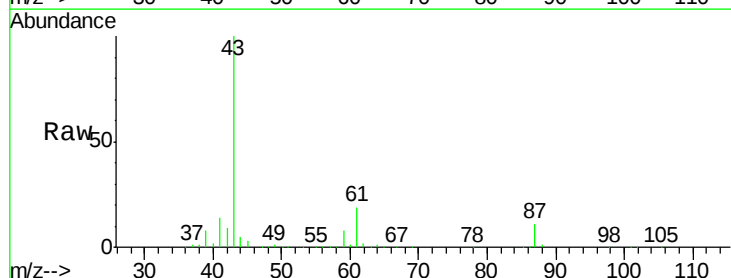
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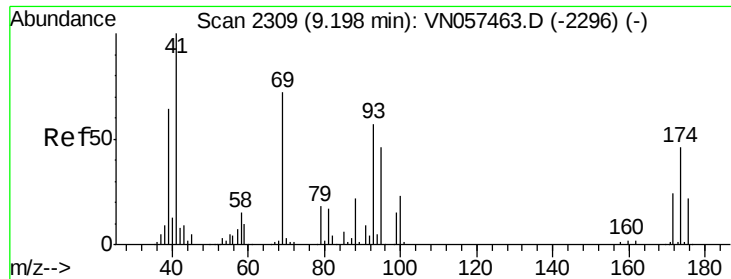
MMDadoda
8/26/2019 1:12:28 PM



#44
Isopropyl Acetate
Concen: 20.398 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	43	61	Ratio	Lower	Upper
234084	100	17.8		0.1	0.1#





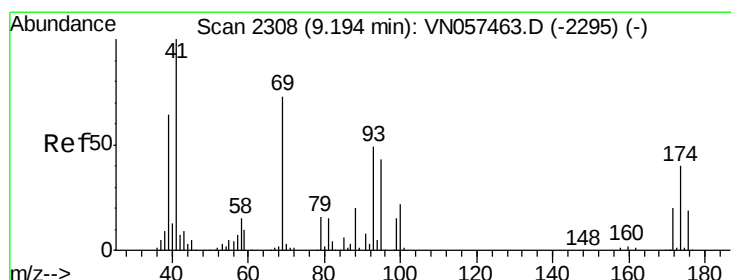
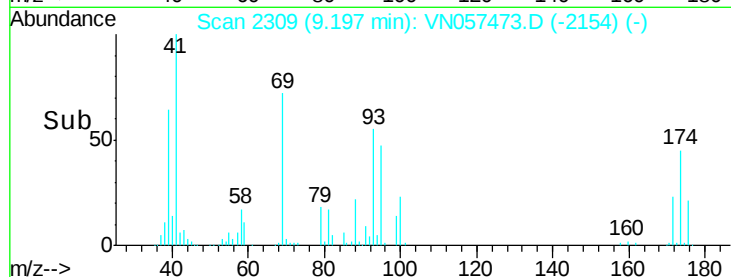
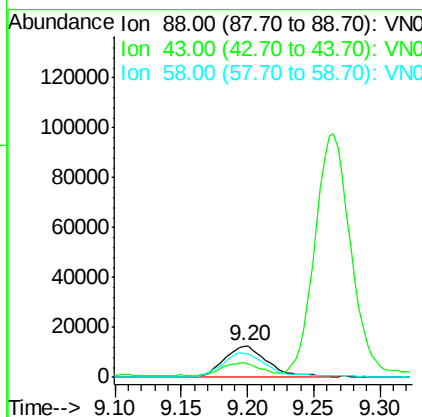
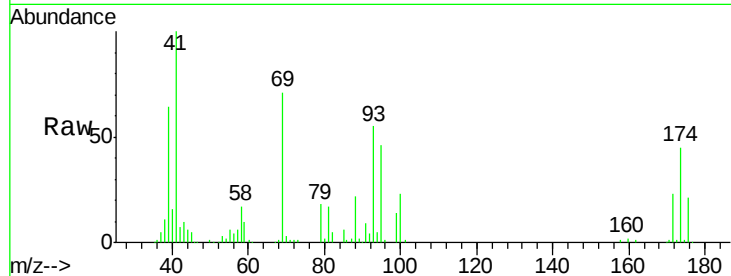
#45
 1,4-Dioxane
 Concen: 424.588 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.3	29.8	44.6
58	74.8	62.2	93.2

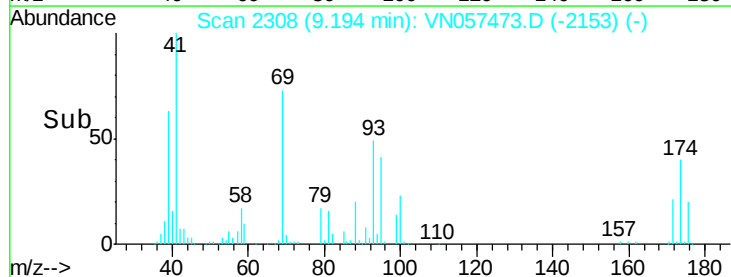
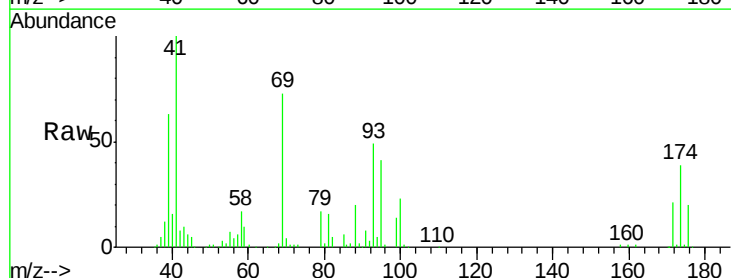
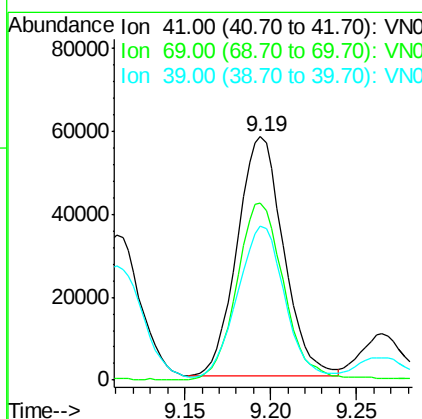
Manual Integrations
 APPROVED

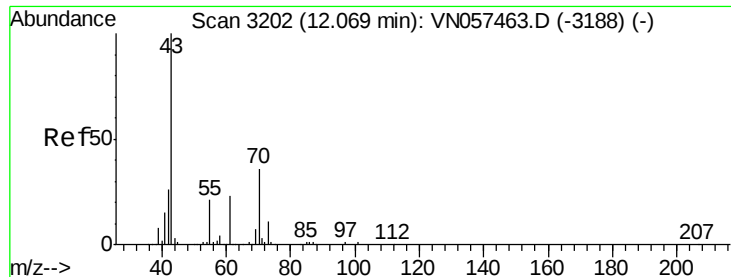
MMDadoda
 8/26/2019 1:12:28 PM



#46
 Methyl methacrylate
 Concen: 19.883 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
41	100		
69	74.3	36.5	109.5
39	62.9	32.1	96.3





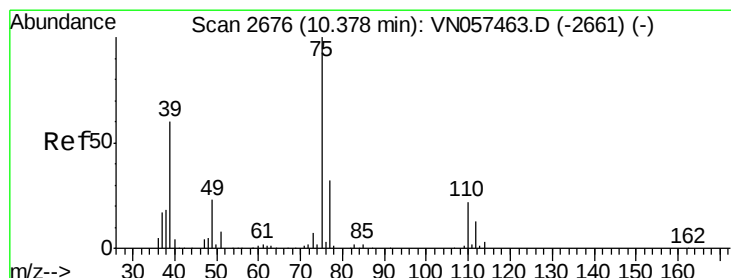
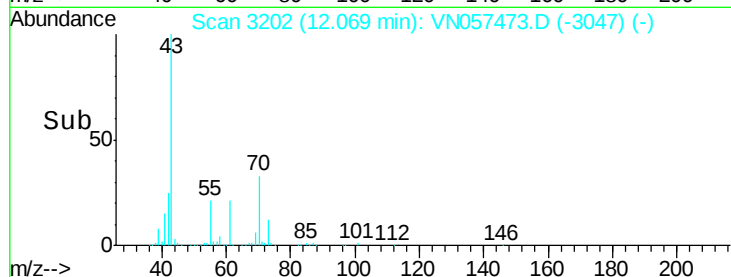
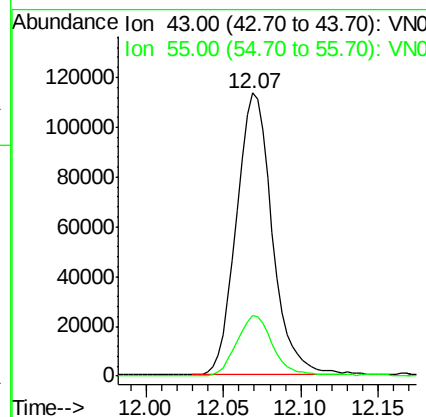
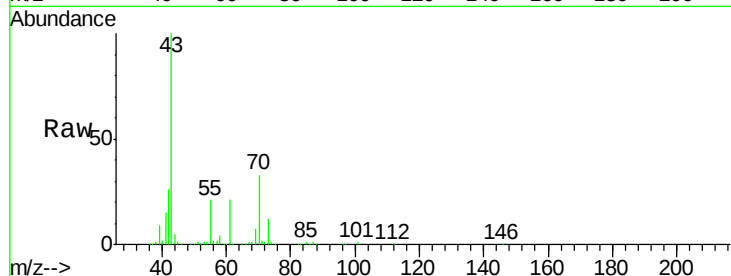
#47
n-amvl Acetate
Concen: 19.708 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion: 43 Resp: 182032
Ion Ratio Lower Upper
43 100
55 21.3 17.0 25.6

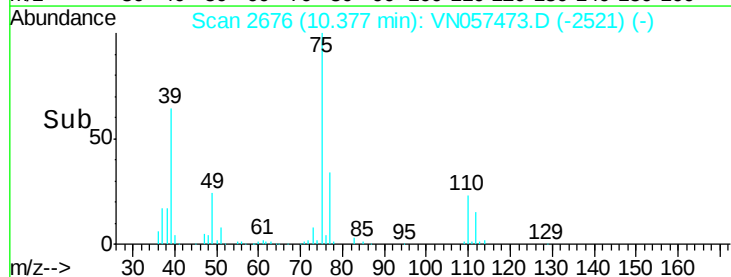
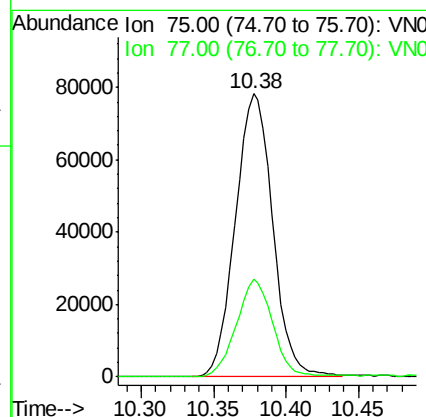
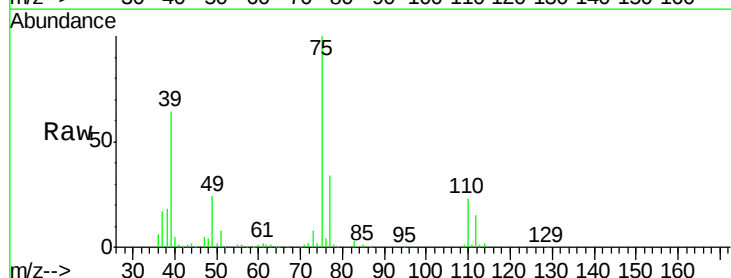
Manual Integrations
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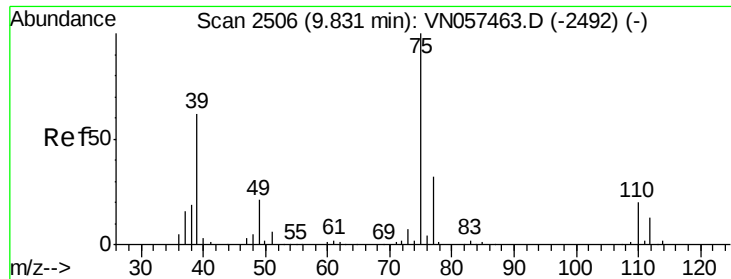
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8/26/2019 1:12:28 PM



#48
t-1,3-Dichloropropene
Concen: 19.083 ug/l
RT: 10.38 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion: 75 Resp: 140357
Ion Ratio Lower Upper
75 100
77 34.4 25.7 38.5





#49

cis-1,3-Dichloropropene

Concen: 19.319 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

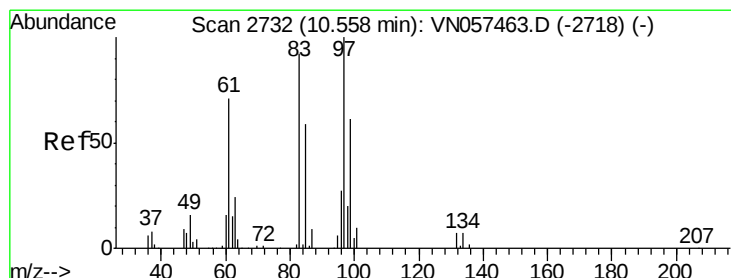
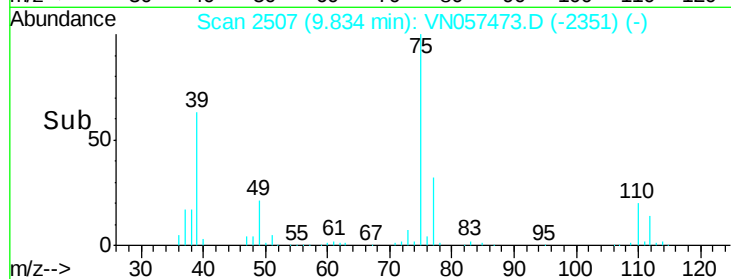
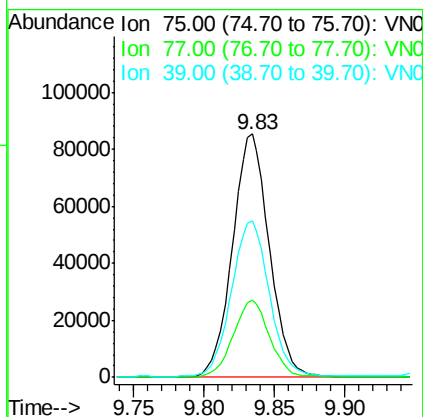
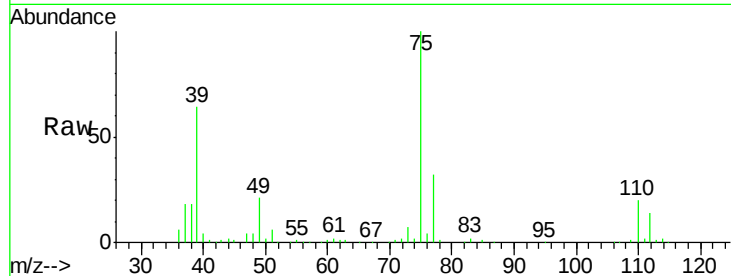
ClientSampleId :

VSTDCCC020EC

Tot Ion:	75	Resp:	156167
Ion Ratio	Lower	Upper	
75	100		
77	31.7	25.4	38.0
39	63.5	49.8	74.6

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 20.331 ug/l

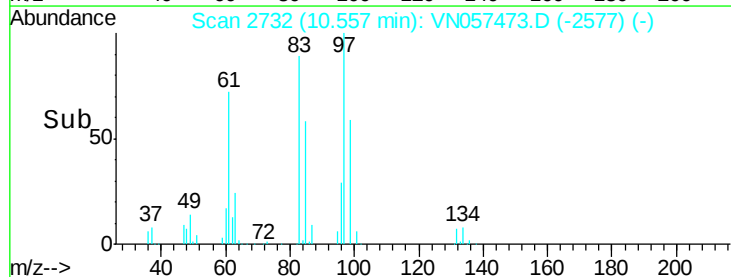
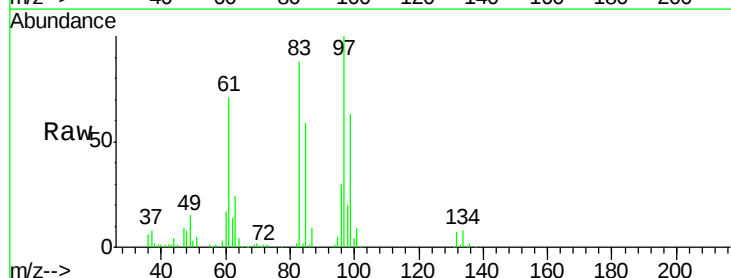
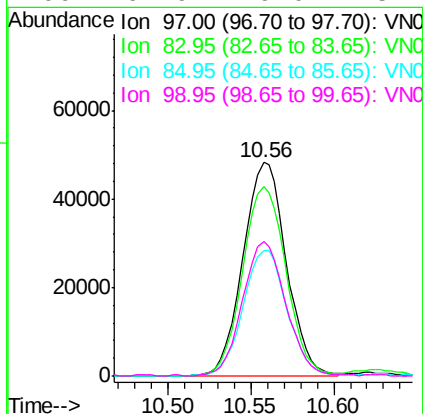
RT: 10.56 min Scan# 2732

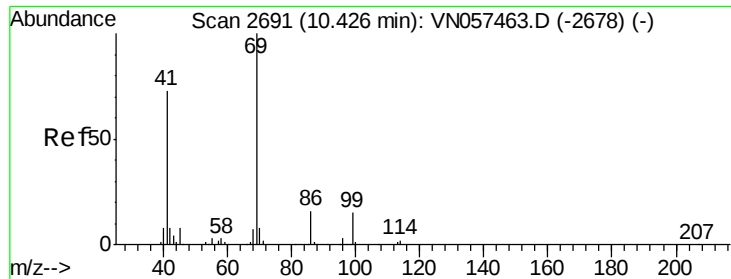
Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	97	Resp:	87515
Ion Ratio	Lower	Upper	
97	100		
83	88.4	73.2	109.8
85	58.9	47.1	70.7
99	62.9	49.0	73.4





#51

Ethyl methacrylate

Concen: 20.519 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

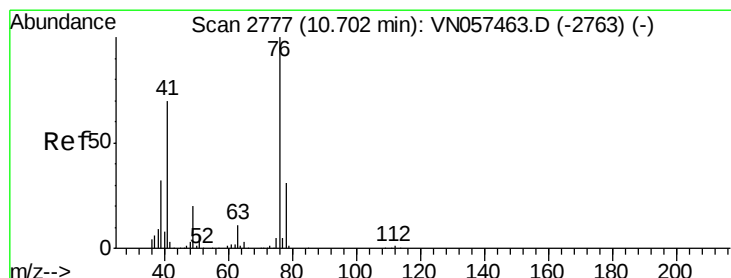
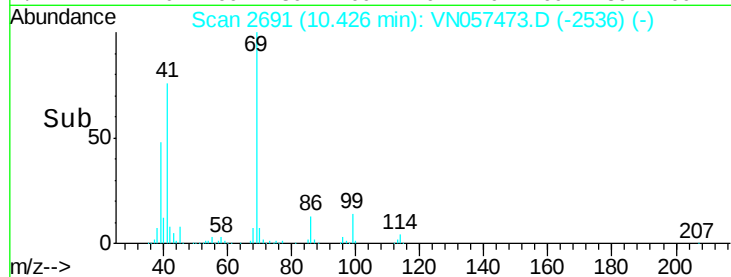
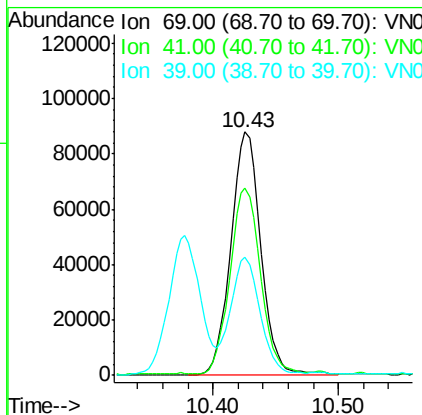
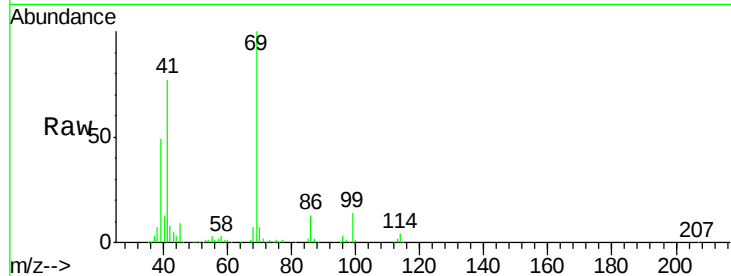
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	146821
Ion	Ratio	Lower	Upper
69	100		
41	76.0	37.0	111.1
39	47.7	24.4	73.4

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 20.266 ug/l

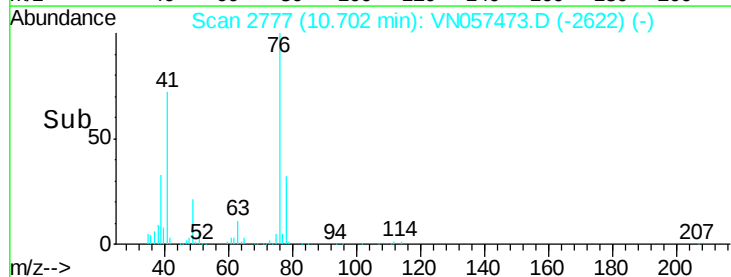
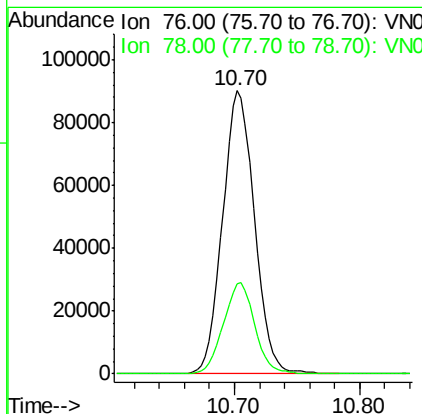
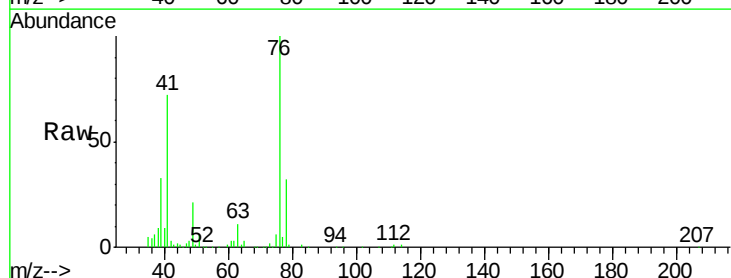
RT: 10.70 min Scan# 2777

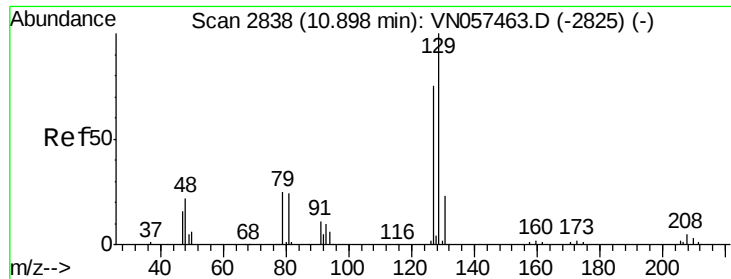
Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	76	Resp:	159041
Ion	Ratio	Lower	Upper
76	100		
78	31.6	0.0	63.0





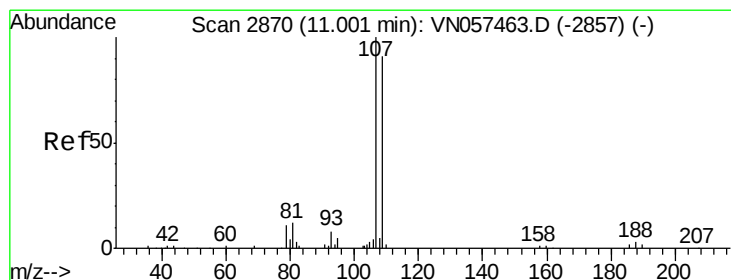
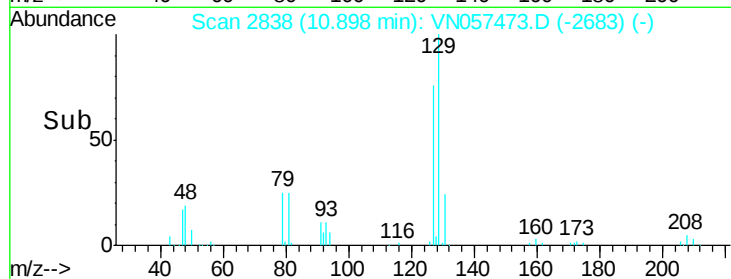
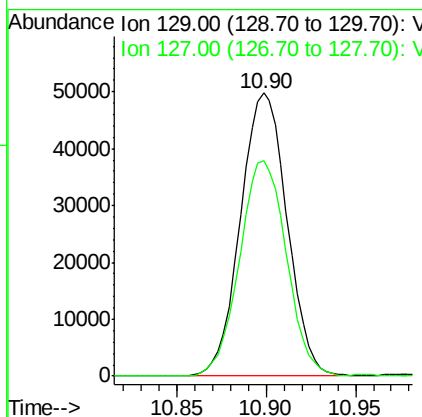
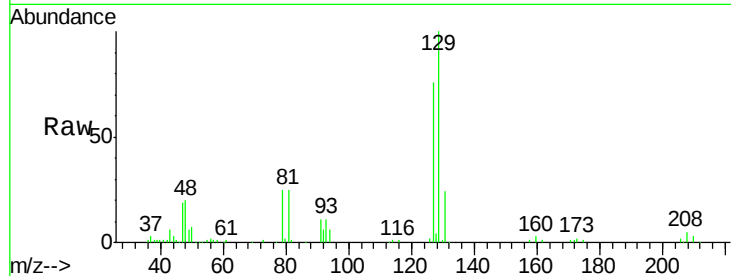
#53
 Dibromochloromethane
 Concen: 19.756 ug/l
 RT: 10.90 min Scan# 2838
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		90655		
127	76.7	38.1	114.3		

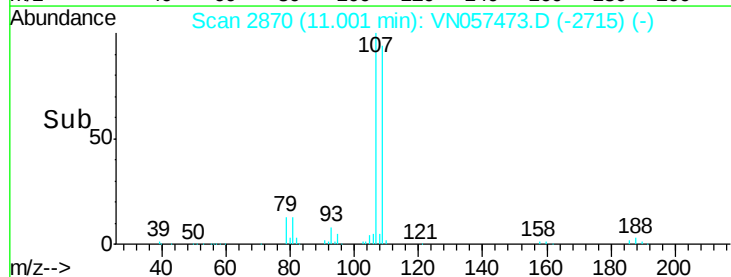
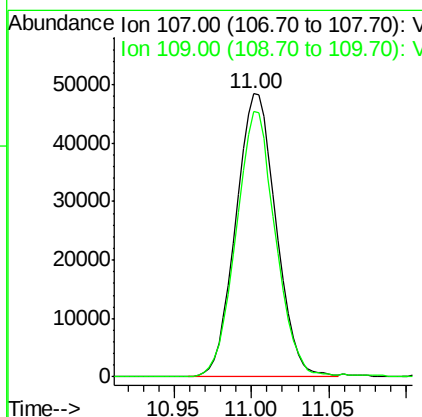
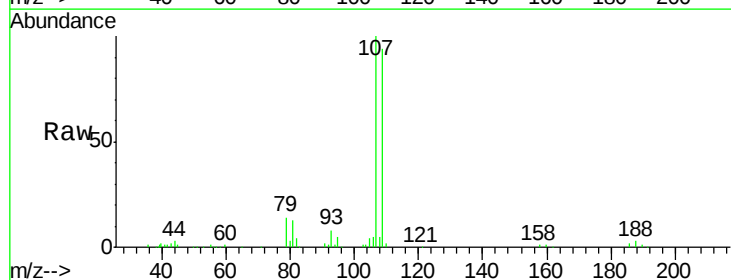
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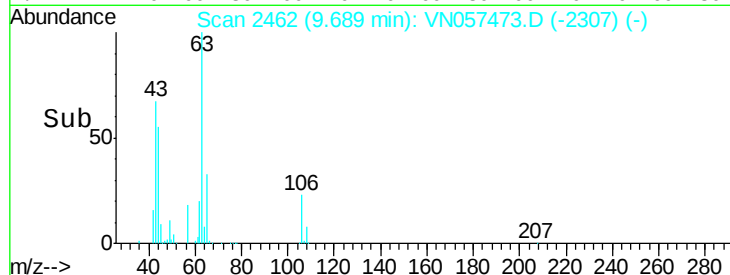
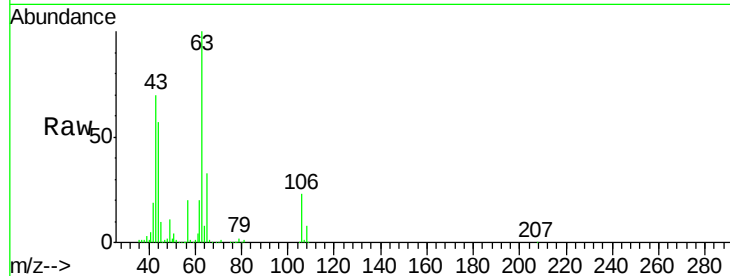
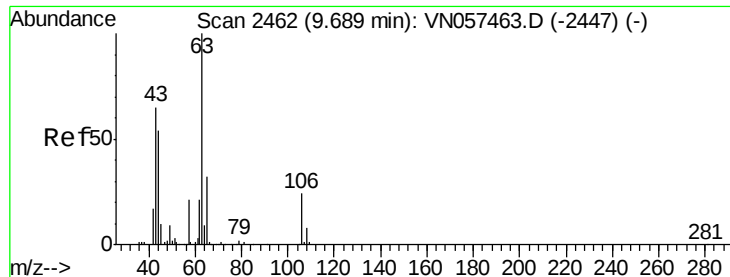
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#54
 1,2-Dibromoethane
 Concen: 19.934 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		87796		
109	91.4	73.2	109.8		





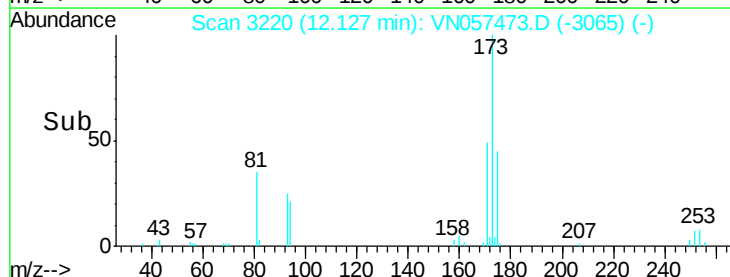
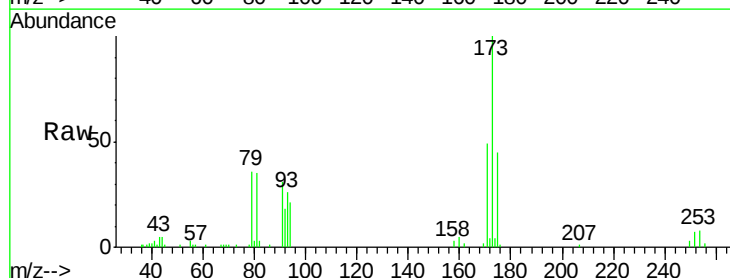
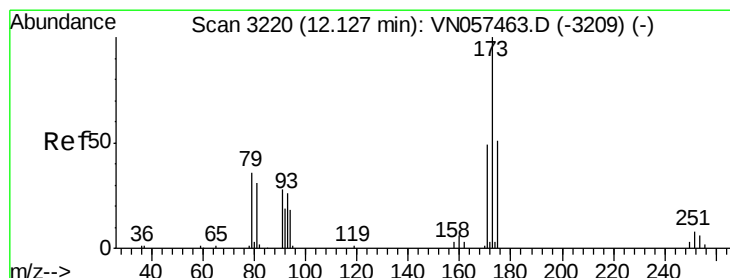
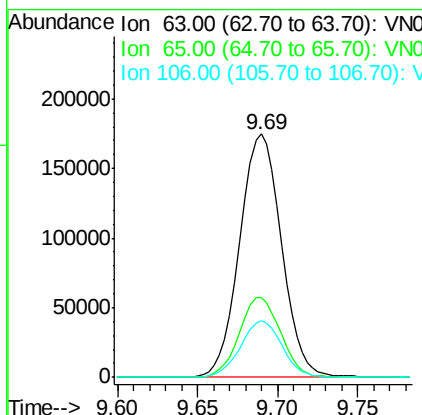
#55
2-Chloroethyl vinyl ether
Concen: 176.856 ug/l
RT: 9.69 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tot Ion:	63	Resp:	311943
Ion Ratio	Lower	Upper	
63	100		
65	32.4	25.1	37.7
106	23.2	18.7	28.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

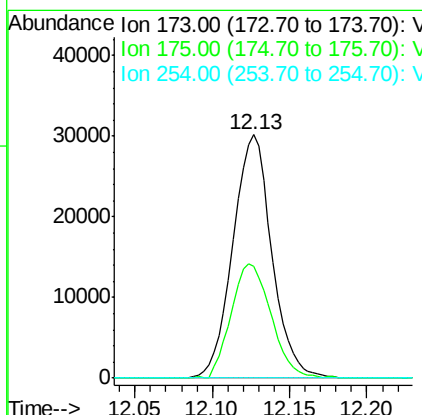
Manual Integrations
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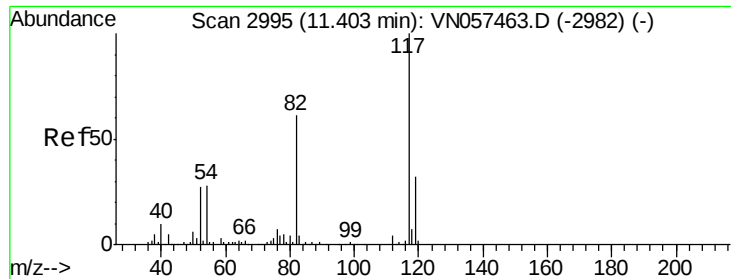
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#56
Bromoform
Concen: 19.261 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion:	173	Resp:	52750
Ion Ratio	Lower	Upper	
173	100		
175	47.8	40.1	60.1
254	0.0	0.0	0.0





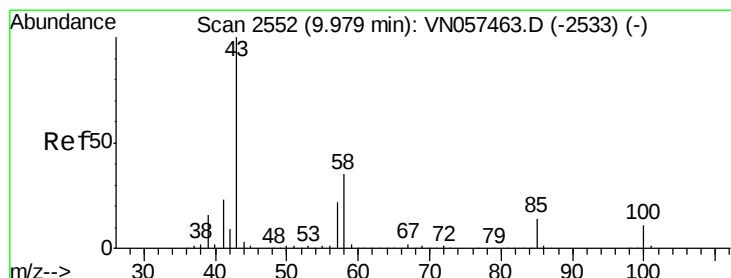
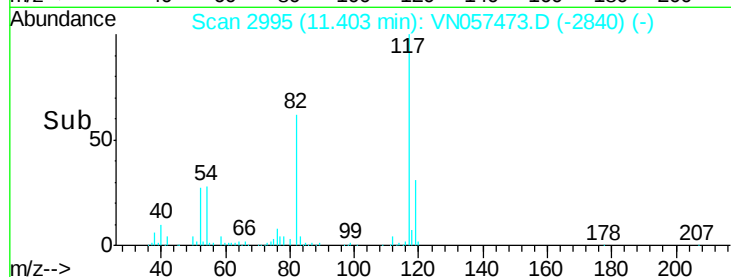
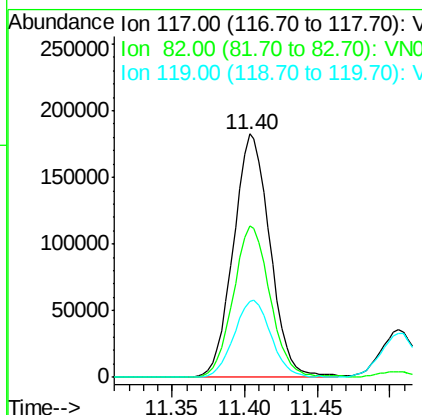
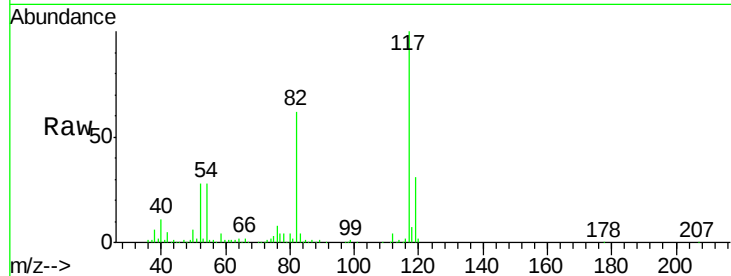
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	320125		
82	62.7		50.4	75.6
119	32.0		25.4	38.2

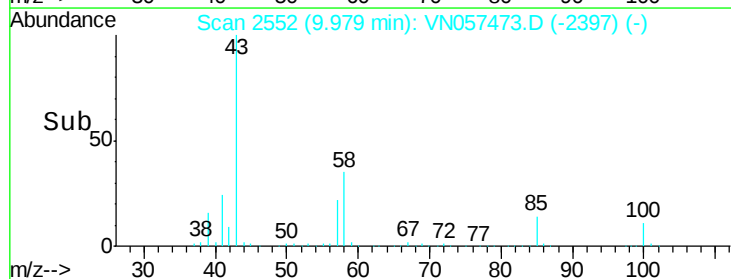
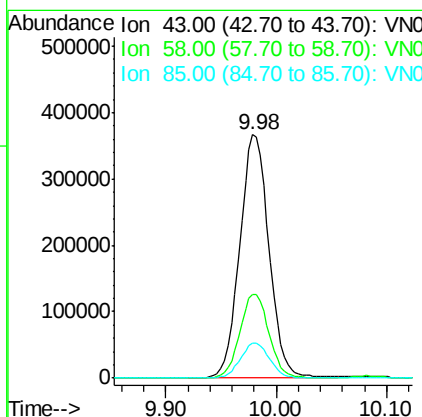
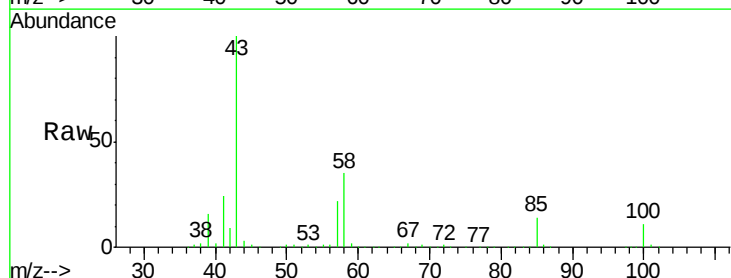
Manual Integrations
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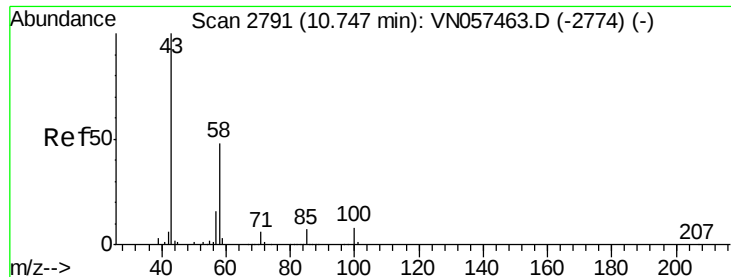
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 107.154 ug/l
RT: 9.98 min Scan# 2552
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	672937		
58	34.4		28.0	42.0
85	14.4		11.3	16.9





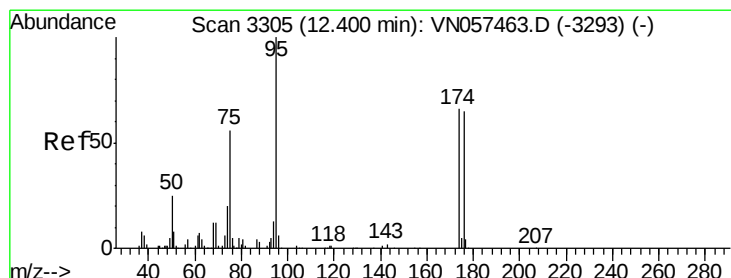
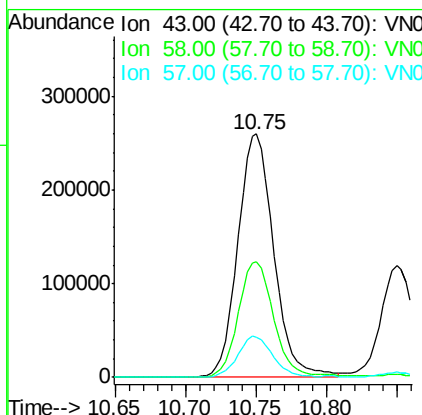
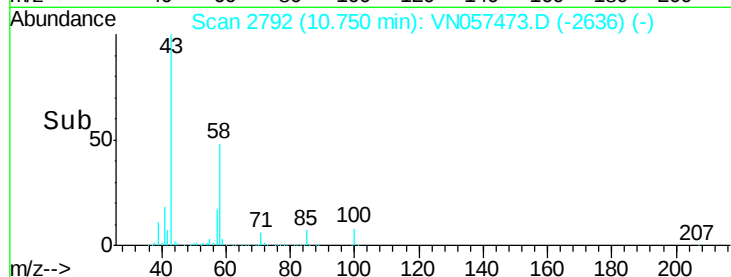
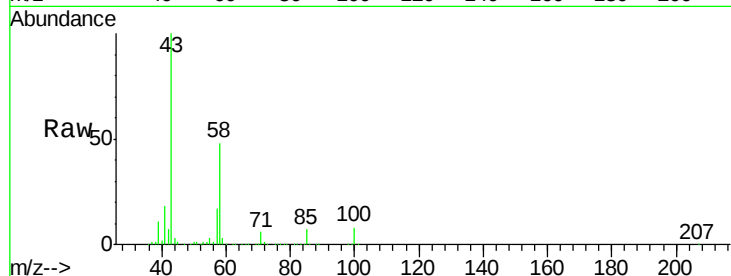
#59
2-Hexanone
Concen: 105.917 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.6	38.9	58.3
57	16.6	13.0	19.4

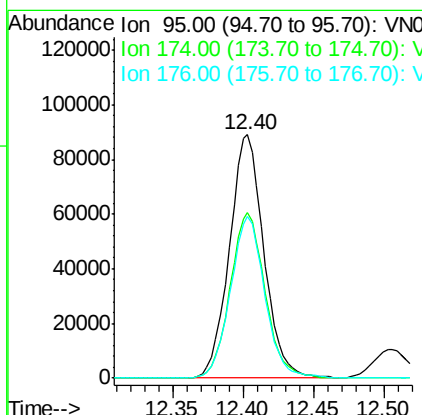
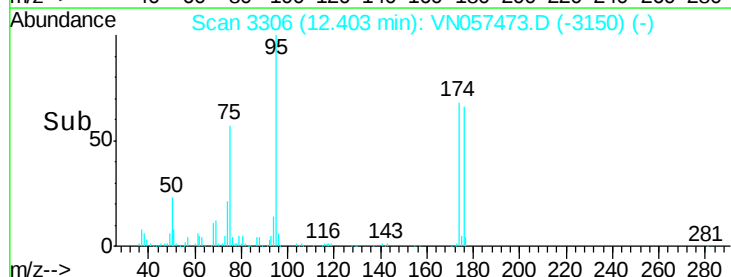
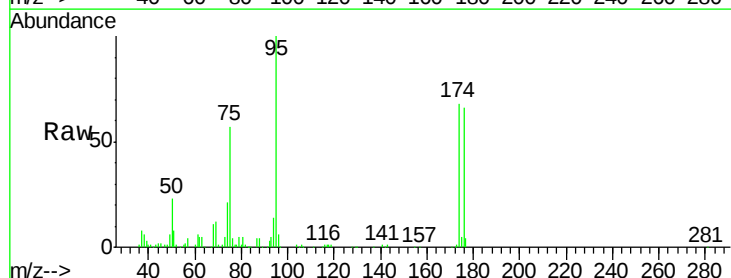
Manual Integrations
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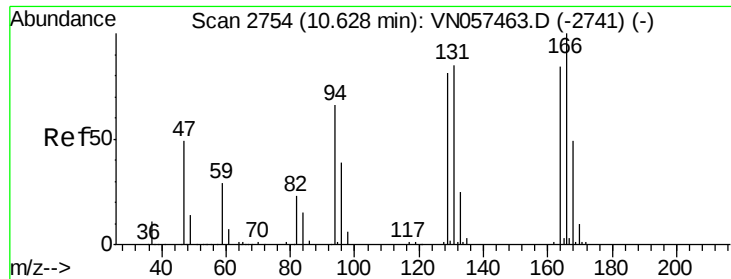
MMDadoda
8/26/2019 1:12:28 PM



#60
4-Bromofluorobenzene
Concen: 28.864 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
95	100		
174	68.6	54.9	82.3
176	66.1	54.2	81.4





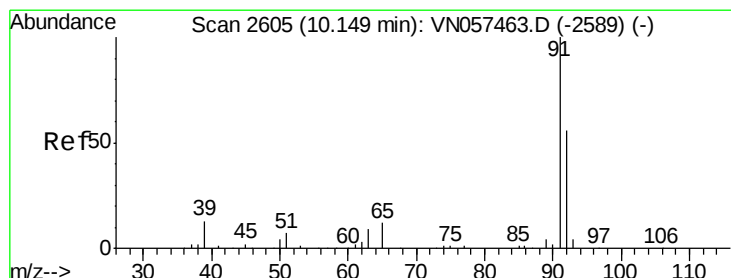
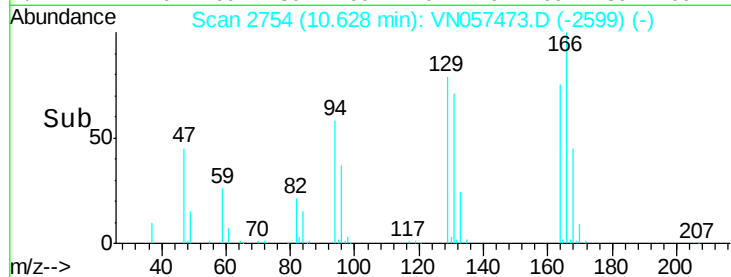
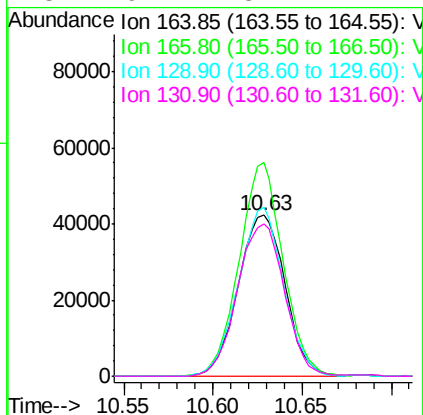
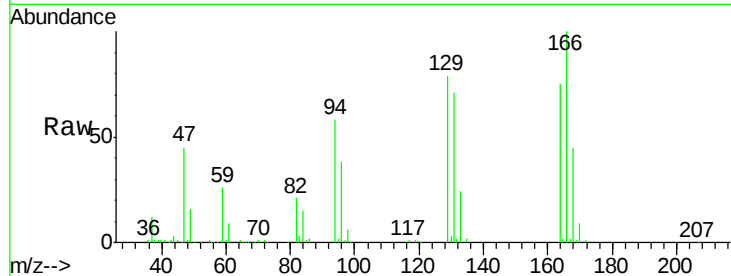
#61
Tetrachloroethene
Concen: 21.163 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
164	100		
166	132.3	95.8	143.6
129	105.1	77.2	115.8
131	94.4	81.1	121.7

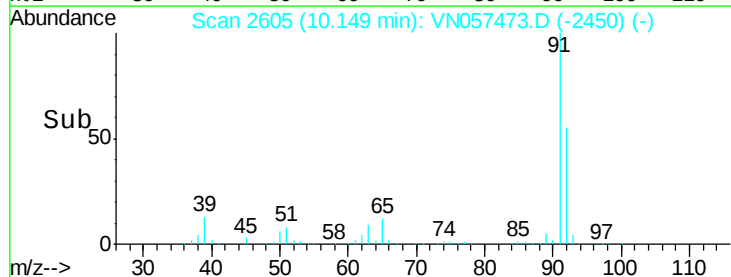
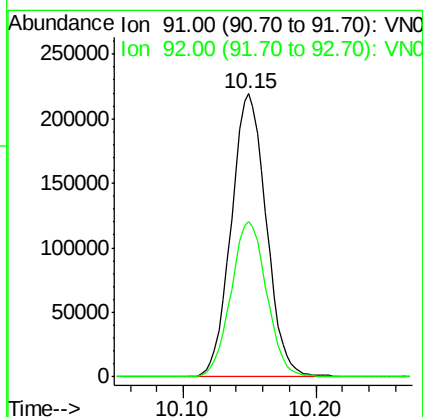
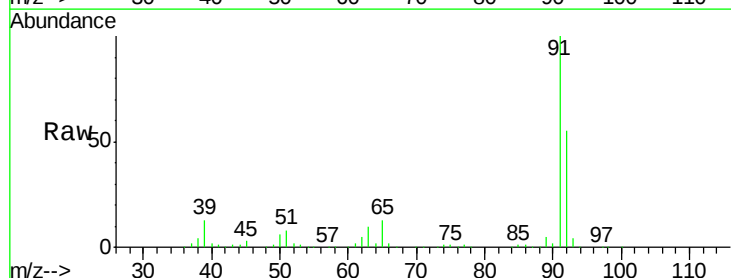
Manual Integrations
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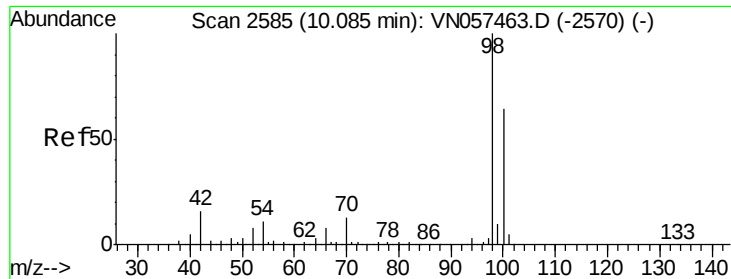
MMDadoda
8/26/2019 1:12:28 PM



#62
Toluene
Concen: 20.553 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.8	45.4	68.0





#63

Toluene-d8

Concen: 30.362 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 490837

Ion Ratio Lower Upper

98 100

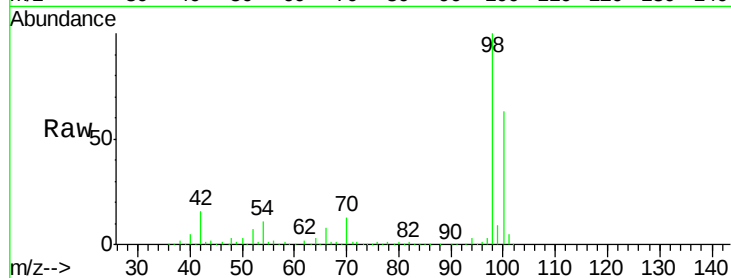
100 62.8 51.0 76.6

Manual Integrations

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Abundance Ion 98.00 (97.70 to 98.70): VN057463.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN057463.D (-2570) (-)

10.08

250000

200000

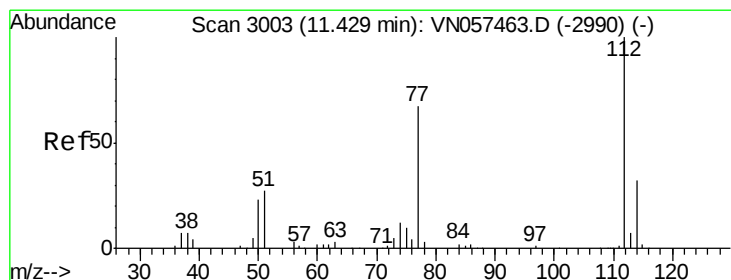
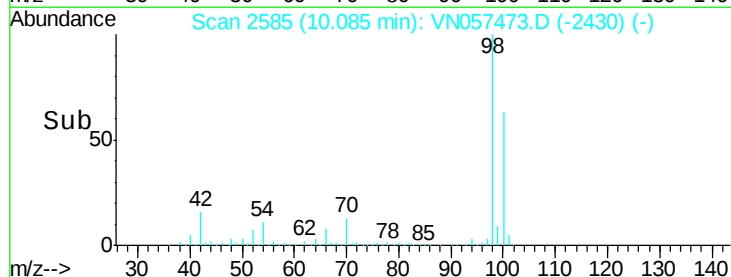
150000

100000

50000

0

Time-->



#64

Chlorobenzene

Concen: 20.429 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN057473.D

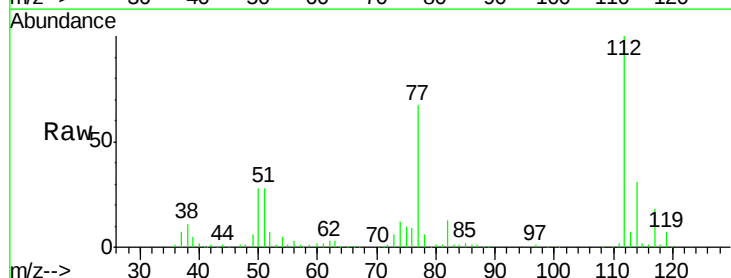
Acq: 23 Aug 2019 14:40

Tgt Ion: 112 Resp: 217294

Ion Ratio Lower Upper

112 100

114 30.6 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN057463.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN057463.D (-2990) (-)

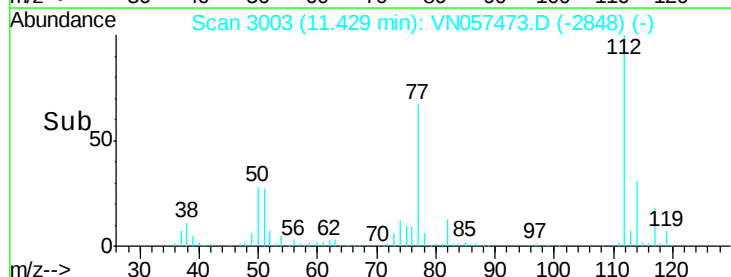
11.43

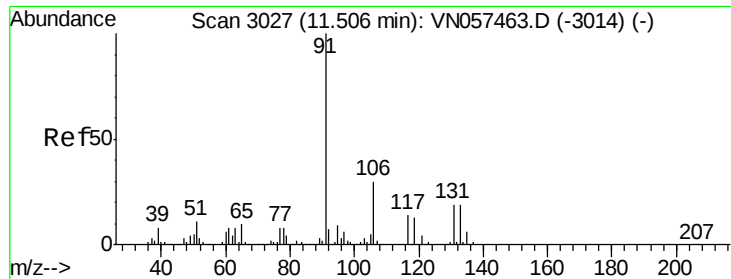
100000

50000

0

Time-->





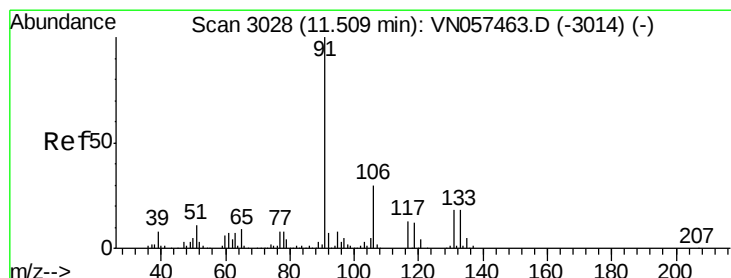
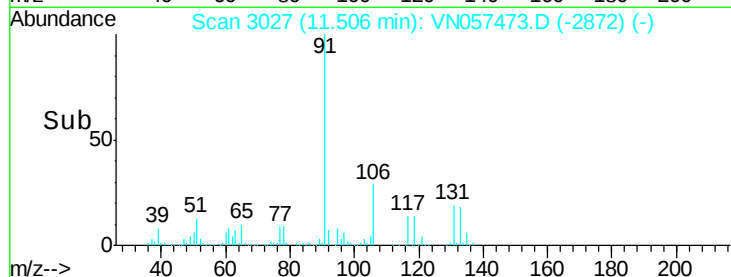
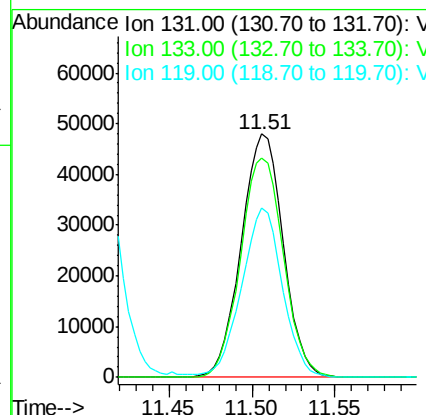
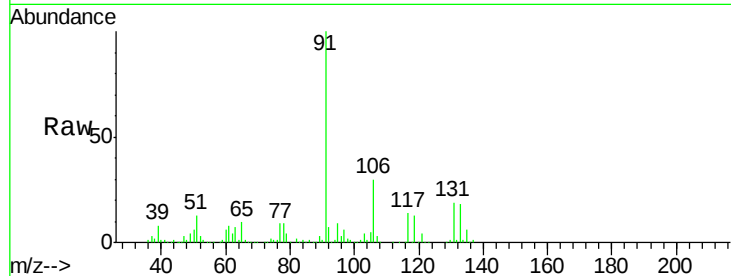
#65
 1,1,1,2-Tetrachloroethane
 Concen: 20.890 ug/l
 RT: 11.51 min Scan# 3027
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
131	100		
133	92.6	0.0	193.6
119	67.5	0.0	137.4

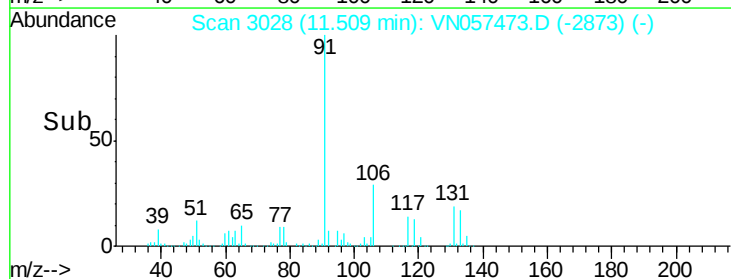
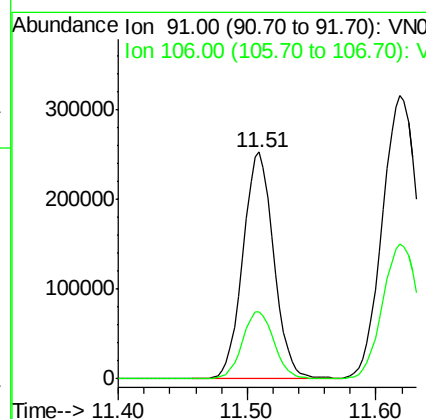
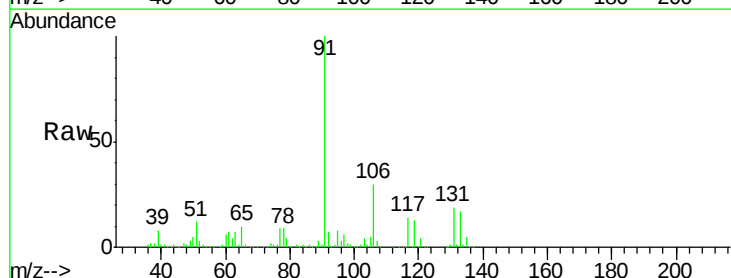
Manual Integrations
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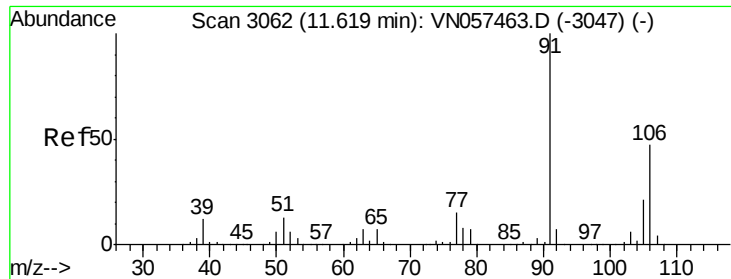
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 8/26/2019 1:12:28 PM



#66
 Ethyl Benzene
 Concen: 20.100 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.6	35.4





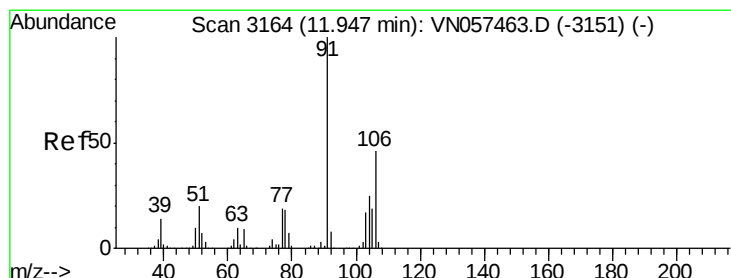
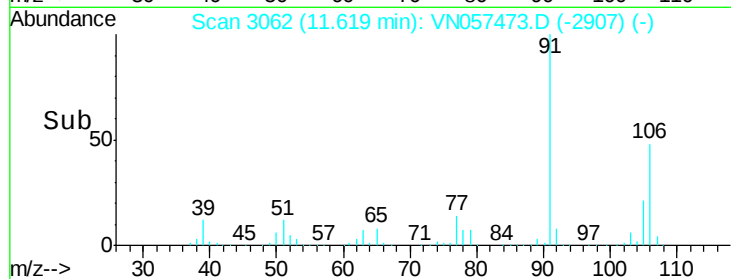
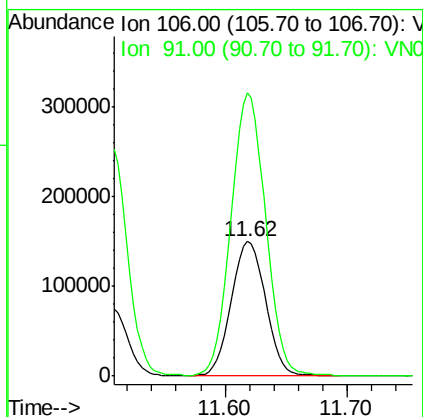
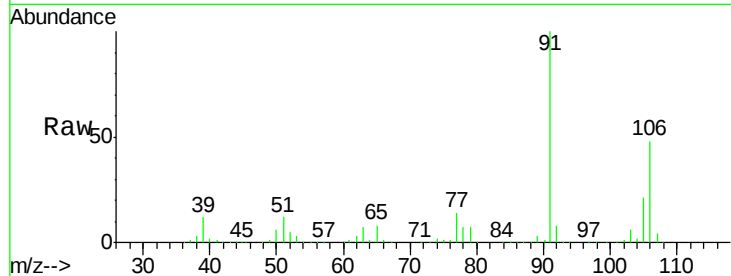
#67
m/p-Xylenes
Concen: 40.383 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion:106 Resp: 293292
Ion Ratio Lower Upper
106 100
91 211.5 172.9 259.3

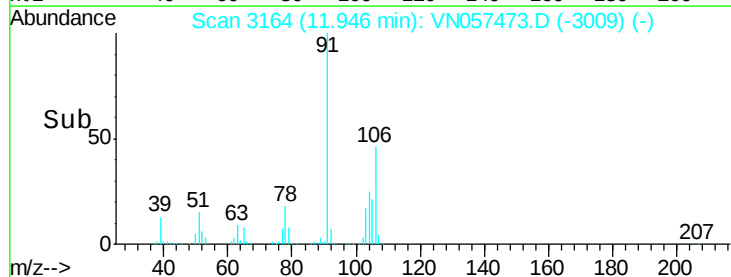
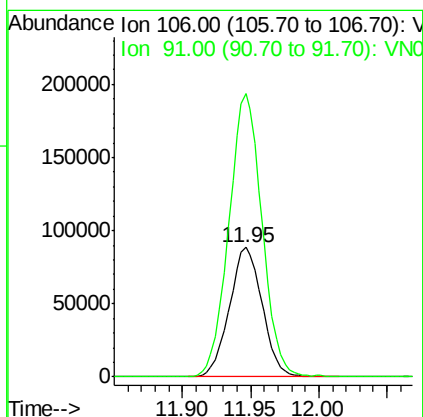
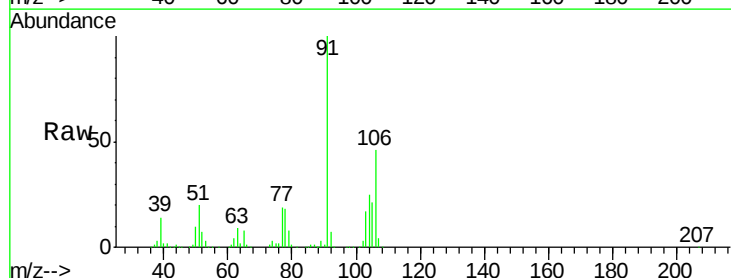
Manual Integrations
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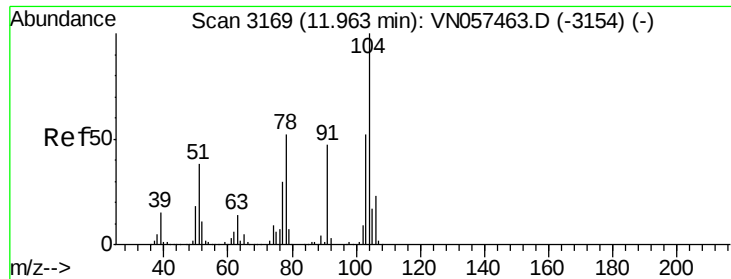
MMDadoda
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#68
o-Xylene
Concen: 20.592 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion:106 Resp: 147797
Ion Ratio Lower Upper
106 100
91 220.0 111.1 333.4





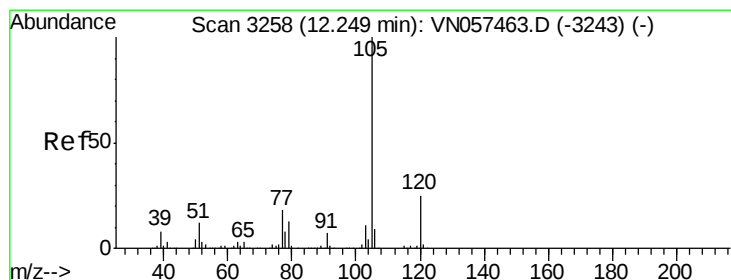
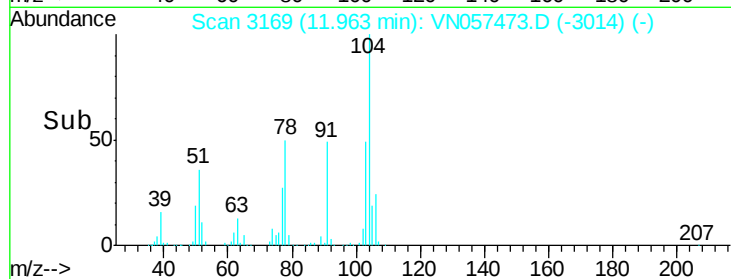
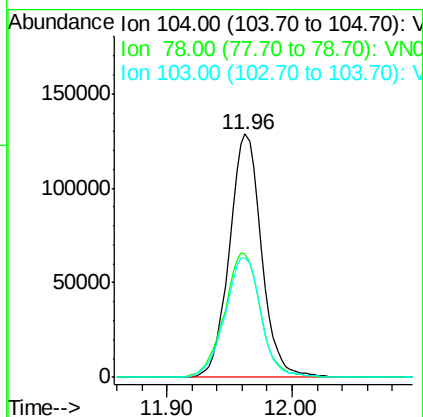
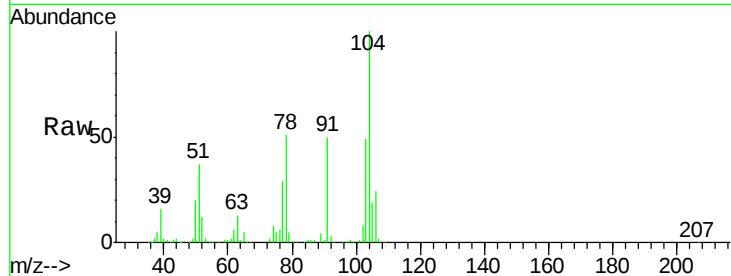
#69
Stvrene
Concen: 19.965 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.5	46.5	69.7
103	55.0	45.9	68.9

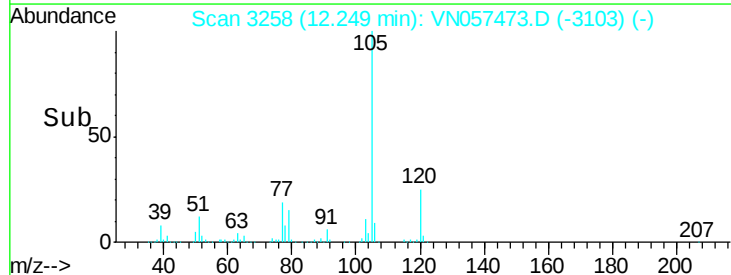
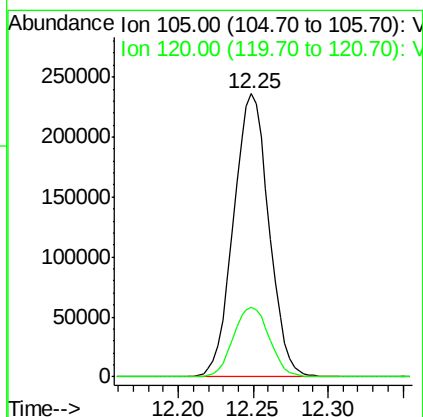
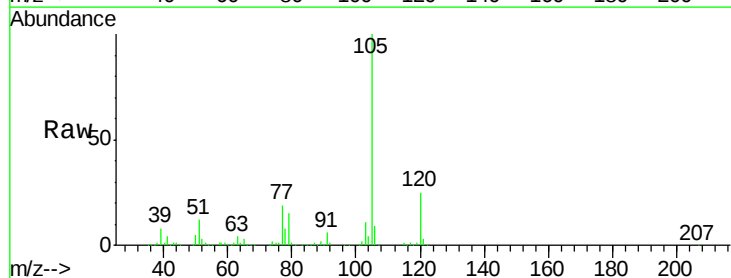
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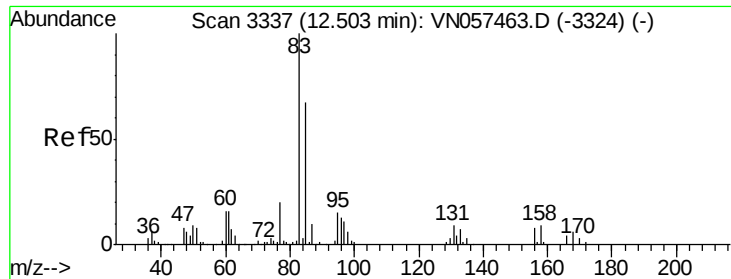
MMDadoda
8/26/2019 1:12:28 PM



#70
Isopropylbenzene
Concen: 20.229 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	17.8	33.1





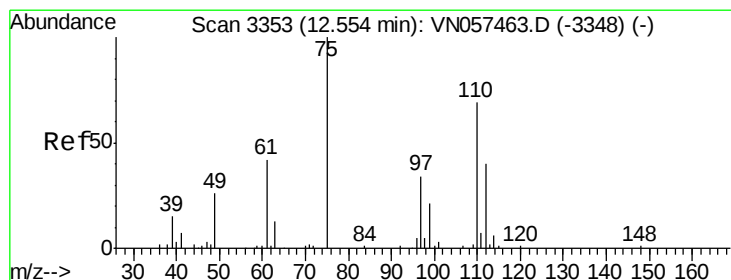
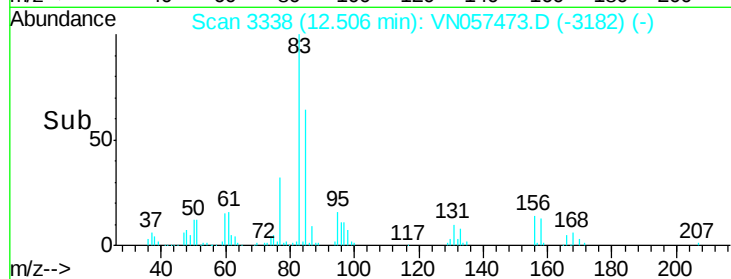
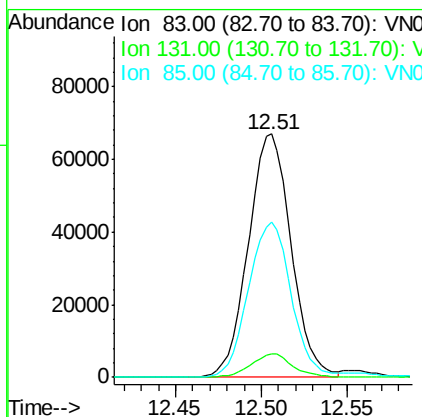
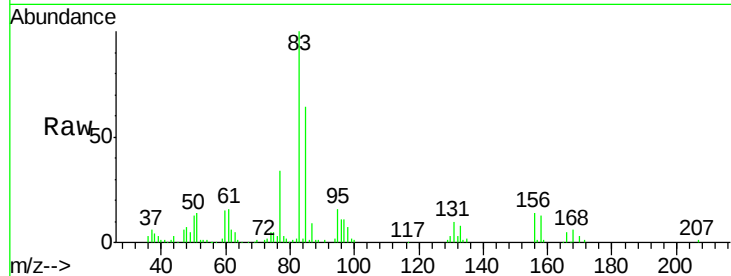
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.858 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	83	Resp	115815
Ion Ratio	100	Lower	Upper
83	100		
131	9.3	4.7	14.1
85	63.9	33.1	99.2

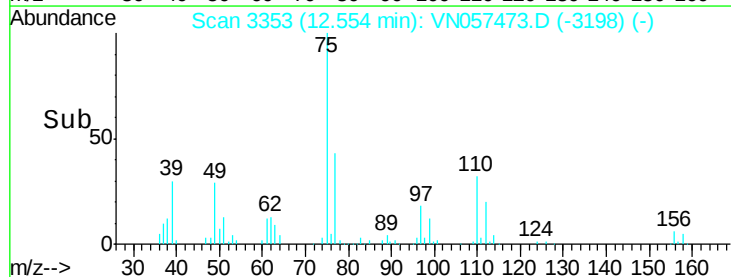
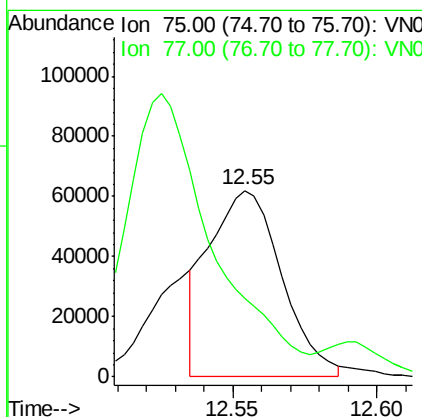
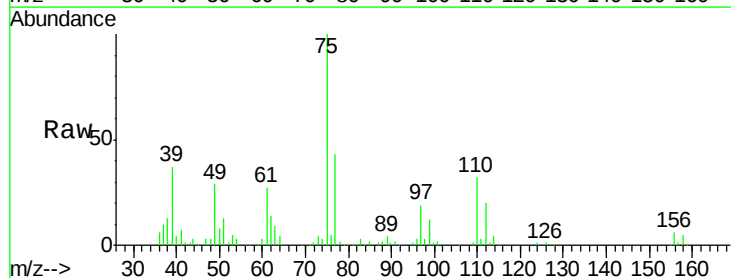
Manual Integrations
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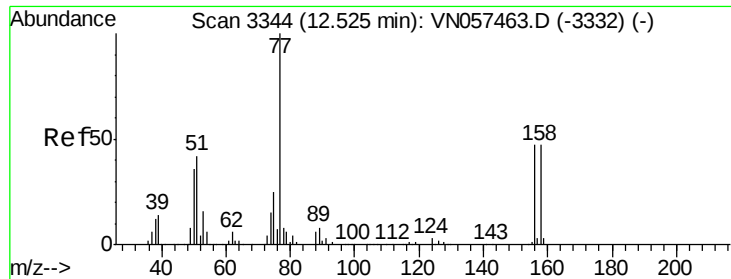
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#72
 1,2,3-Trichloropropane
 Concen: 21.567 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	75	Resp	108705
Ion Ratio	100	Lower	Upper
75	100		
77	183.6	0.0	380.2





#73

Bromobenzene

Concen: 20.327 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

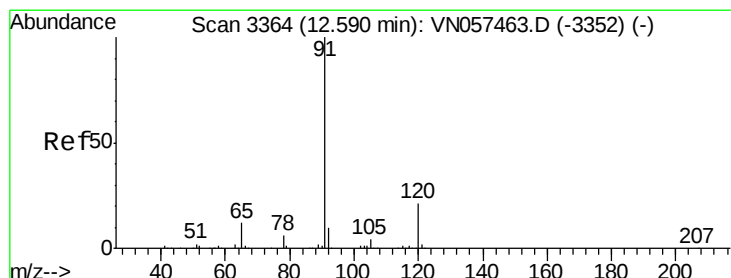
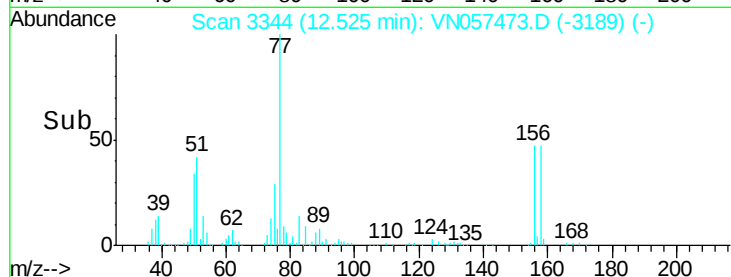
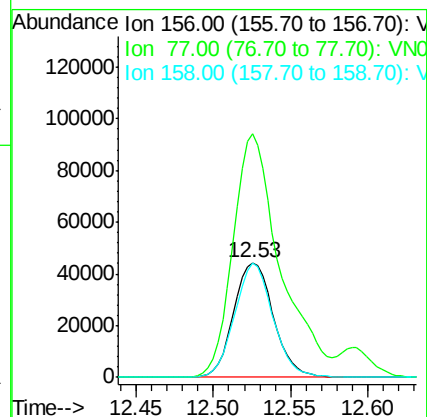
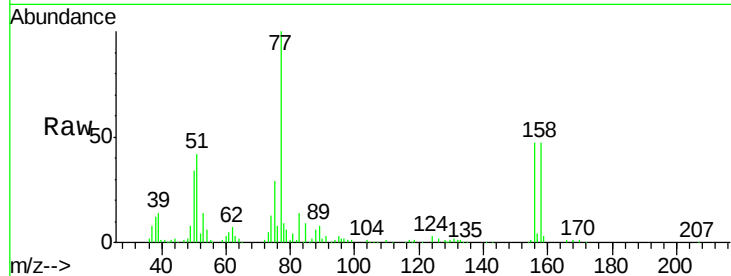
ClientSampleId :

VSTDCCC020EC

Tot Ion:	156	Resp:	78999
Ion	Ratio	Lower	Upper
156	100		
77	252.7	0.0	506.8
158	95.9	0.0	196.6

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#74

n-propylbenzene

Concen: 19.119 ug/l

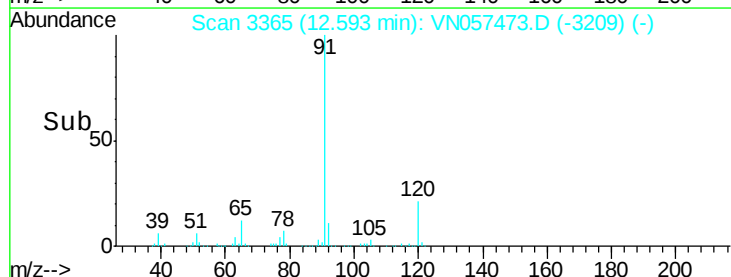
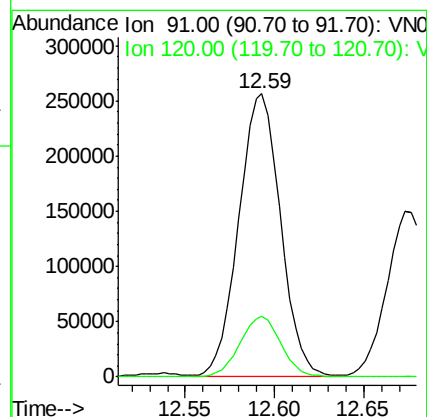
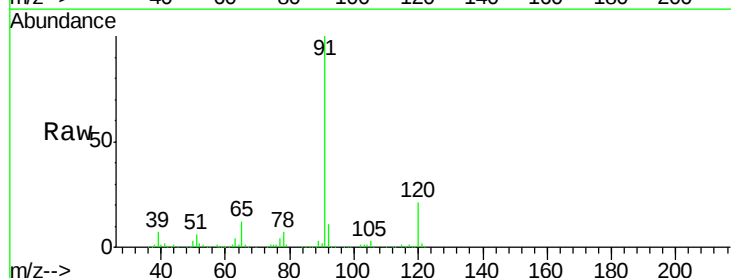
RT: 12.59 min Scan# 3365

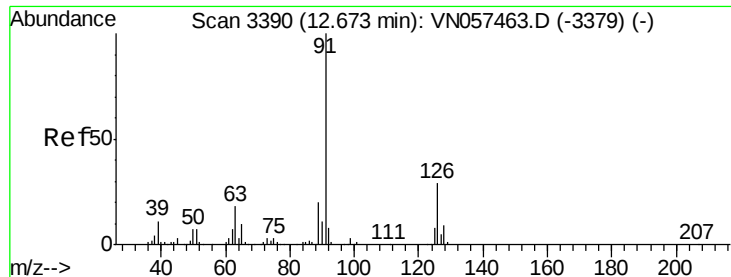
Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	91	Resp:	418587
Ion	Ratio	Lower	Upper
91	100		
120	21.0	0.0	42.2





#75

2-Chlorotoluene

Concen: 19.753 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleID :

VSTDCCC020EC

Tot Ion: 91 Resp: 254698

Ion Ratio Lower Upper

91 100

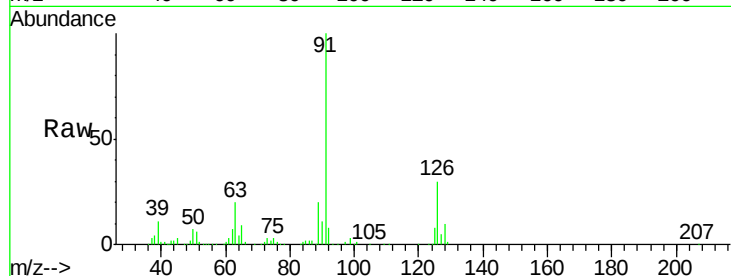
126 30.8 0.0 60.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN057463.D (-3379) (-)

Ion 126.00 (125.70 to 126.70): VN057463.D (-3379) (-)

150000

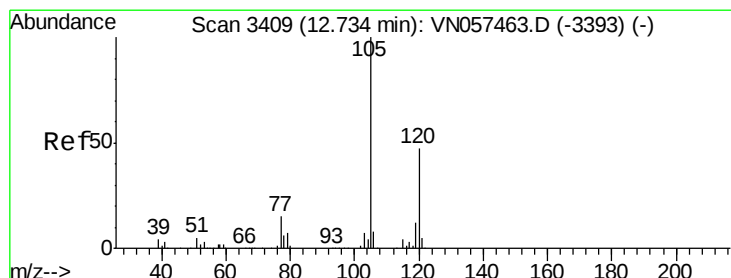
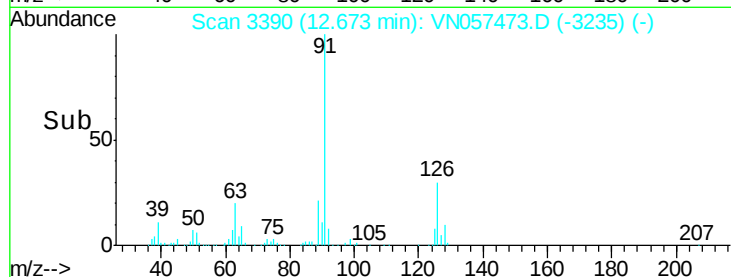
100000

50000

0

12.65 12.67 12.70

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.992 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057473.D

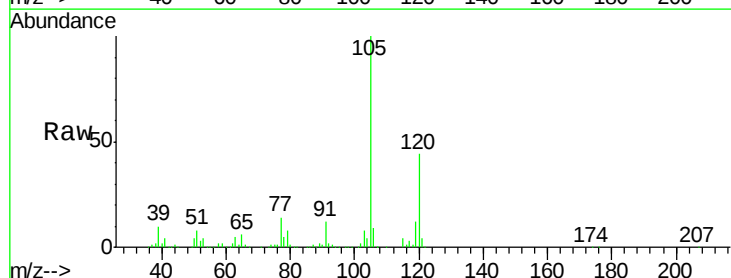
Acq: 23 Aug 2019 14:40

Tgt Ion: 105 Resp: 315030

Ion Ratio Lower Upper

105 100

120 45.4 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN057463.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN057463.D (-3393) (-)

200000

150000

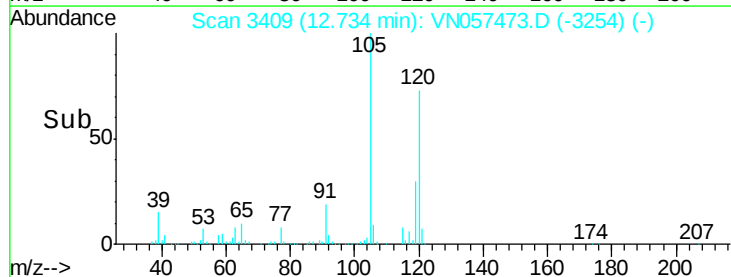
100000

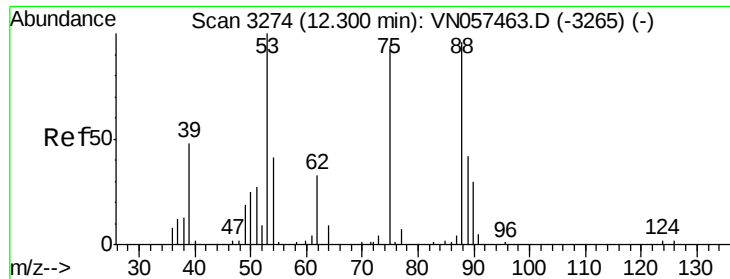
50000

0

12.65 12.70 12.75 12.80

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 19.588 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 75 Resp: 35405

Ion Ratio Lower Upper

75 100

53 108.0 55.6 166.9

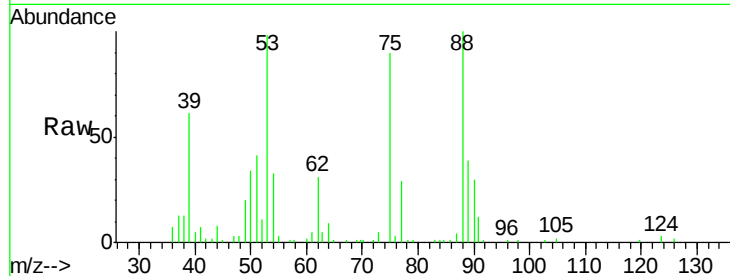
89 43.8 23.8 71.4

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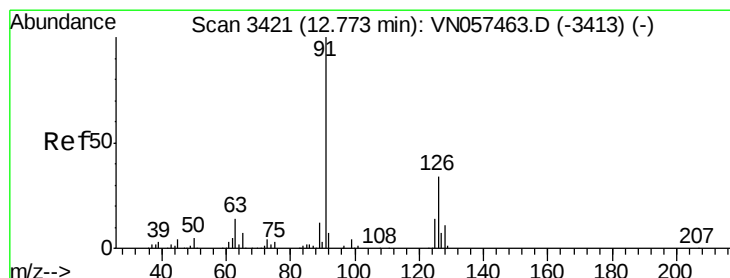
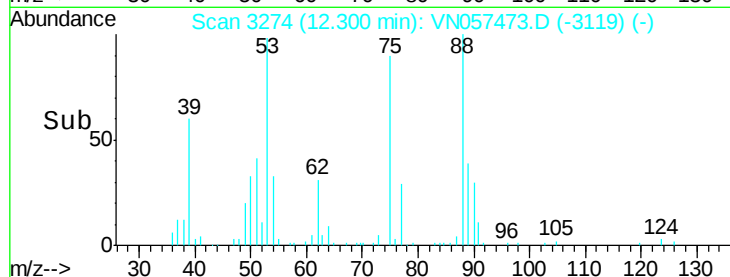
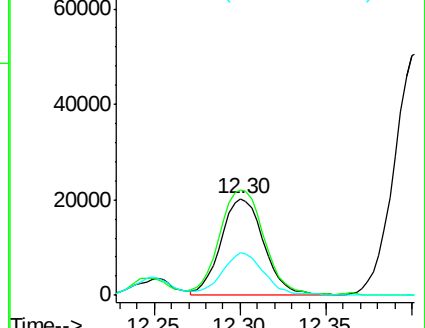
8/26/2019 1:12:28 PM



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#78

4-Chlorotoluene

Concen: 18.938 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. -0.00 min

Lab File: VN057473.D

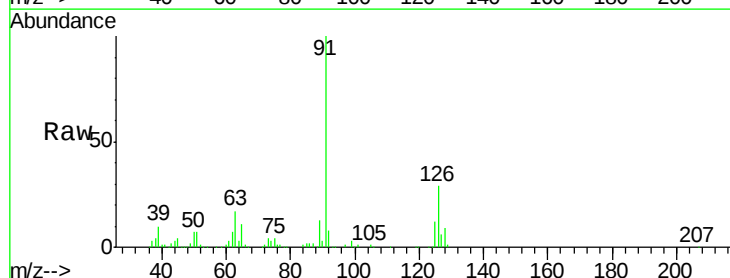
Acq: 23 Aug 2019 14:40

Tgt Ion: 91 Resp: 230730

Ion Ratio Lower Upper

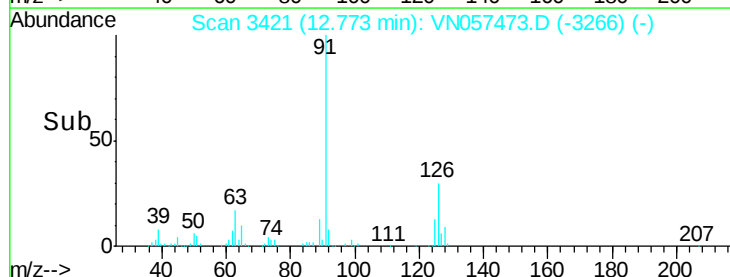
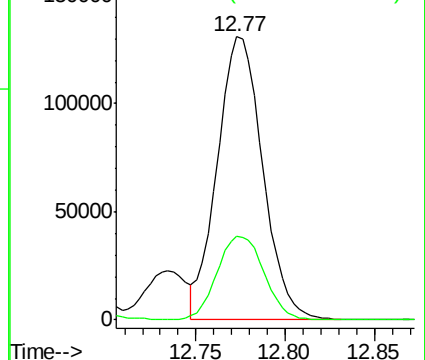
91 100

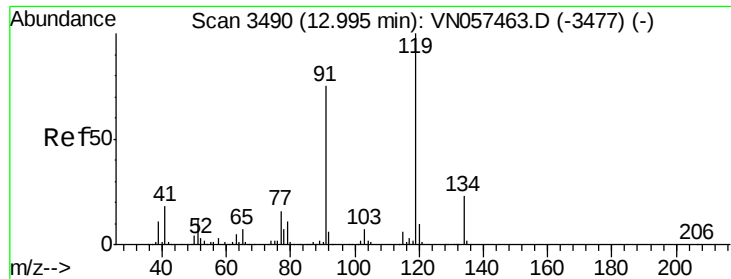
126 30.7 0.0 61.6



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 126.00 (125.70 to 126.70): V





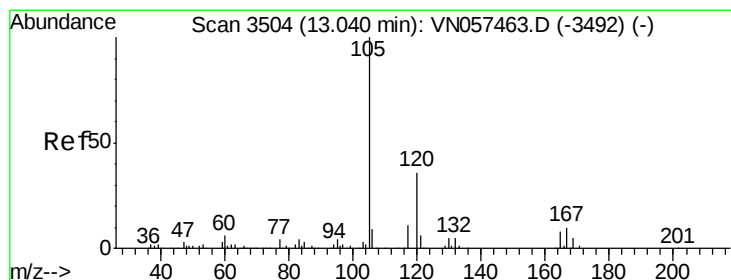
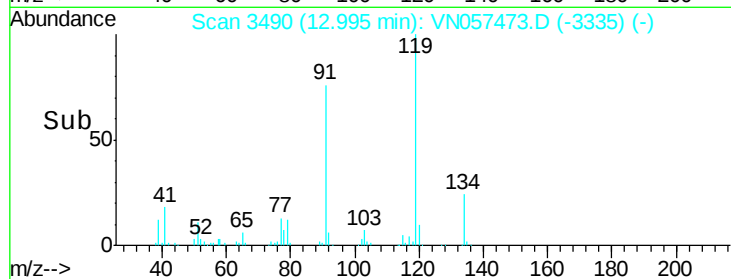
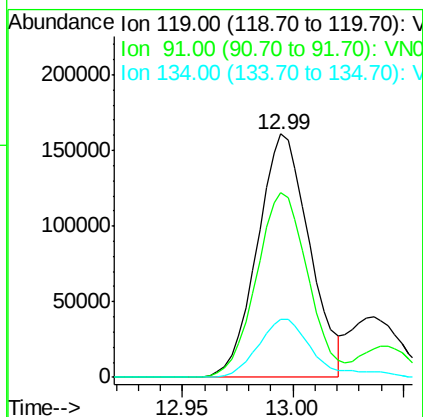
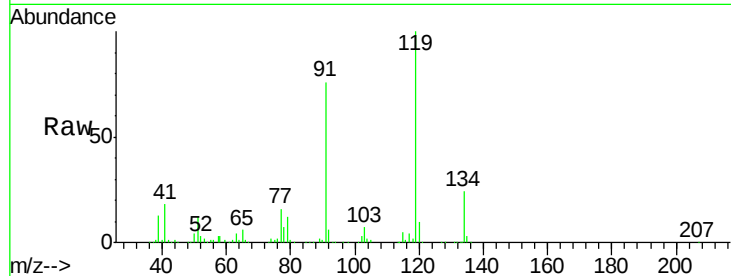
#79
tert-butylbenzene
Concen: 19.634 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	263258		
91	75.4	0.0	146.6	
134	23.3	0.0	46.2	

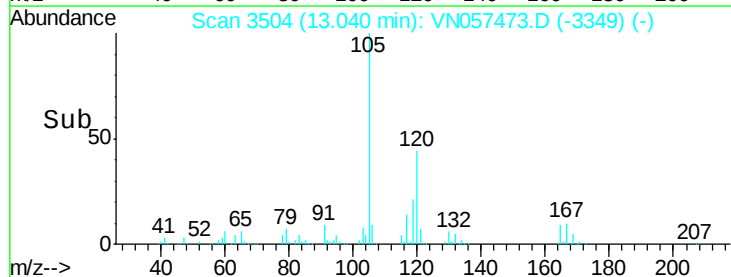
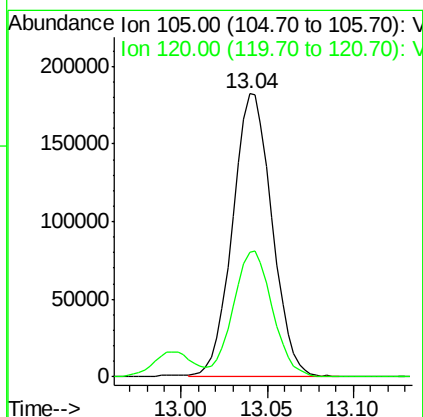
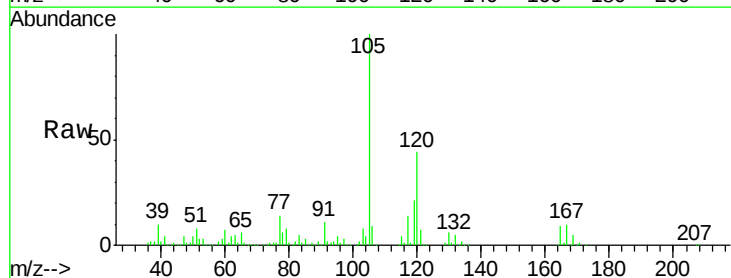
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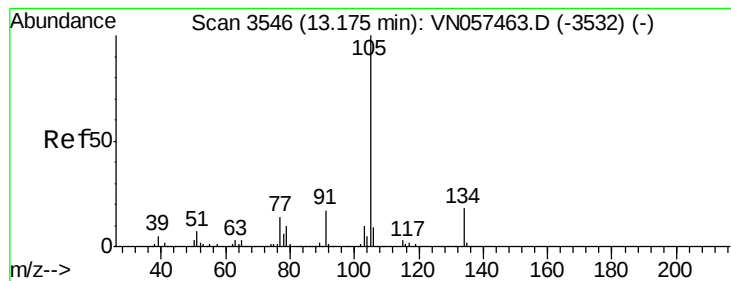
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 19.848 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	291572		
120	44.2	0.0	85.4	





#81

sec-Butylbenzene

Concen: 19.431 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 343323

Ion Ratio Lower Upper

105 100

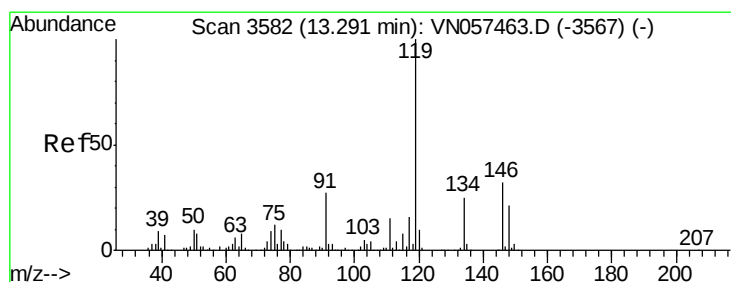
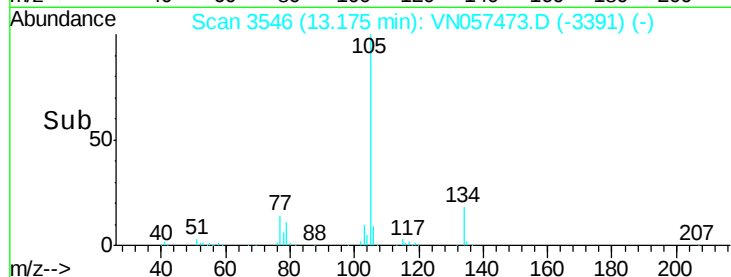
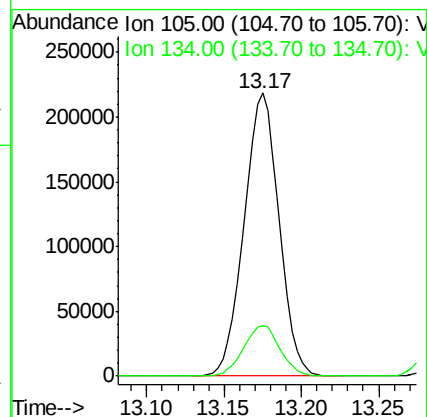
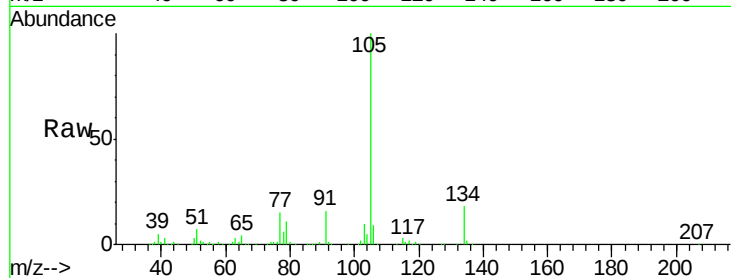
134 18.6 0.0 36.0

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#82

p-Isopropyltoluene

Concen: 18.980 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

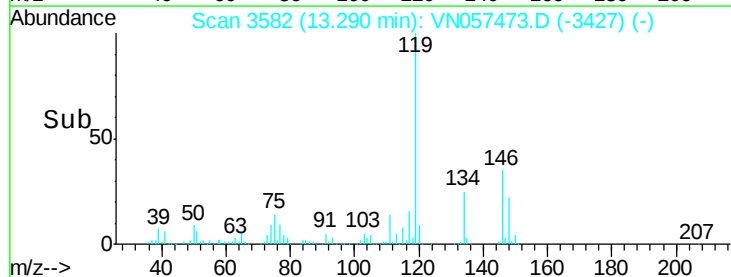
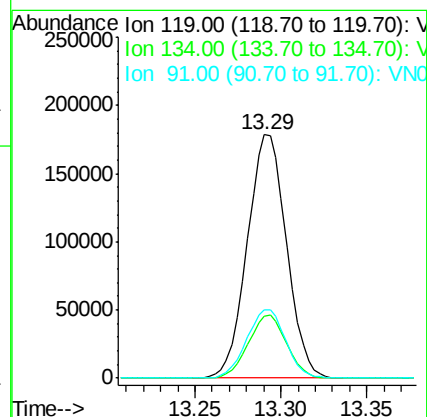
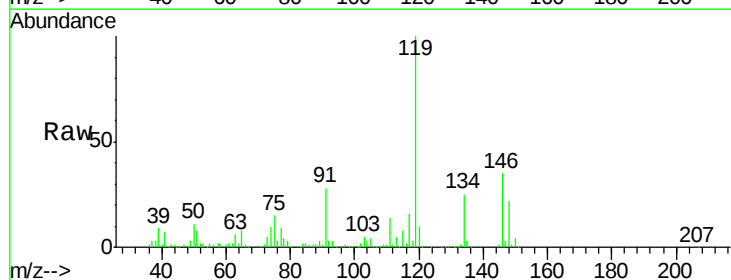
Tgt Ion:119 Resp: 281936

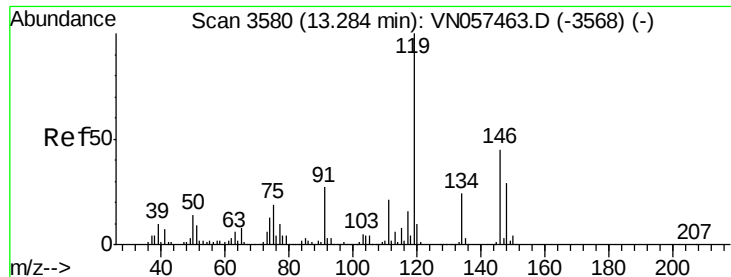
Ion Ratio Lower Upper

119 100

134 25.4 0.0 49.6

91 28.1 0.0 55.2





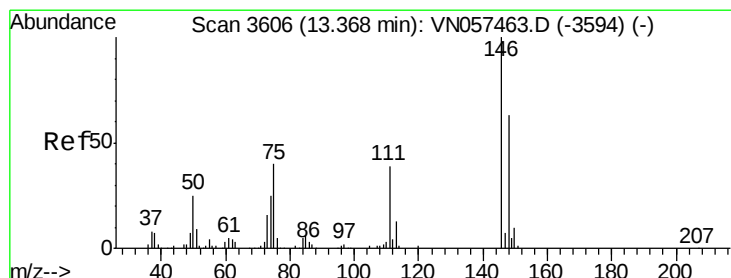
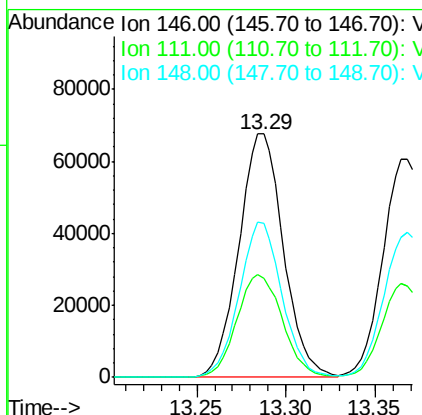
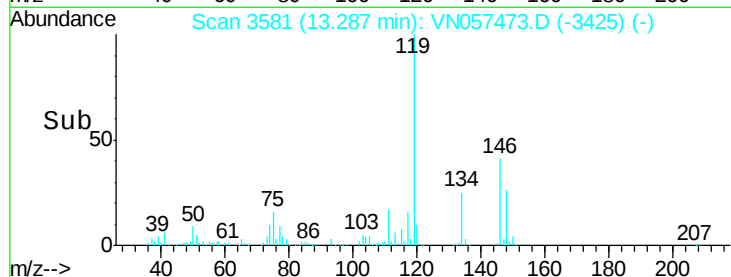
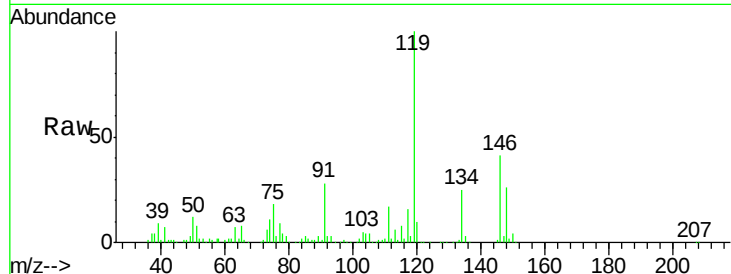
#83
 1,3-Dichlorobenzene
 Concen: 19.435 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.4	67.0
148	61.1	31.8	95.4

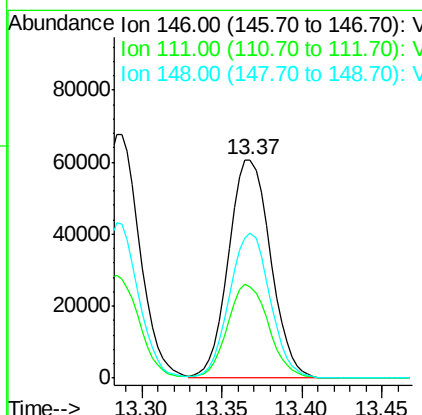
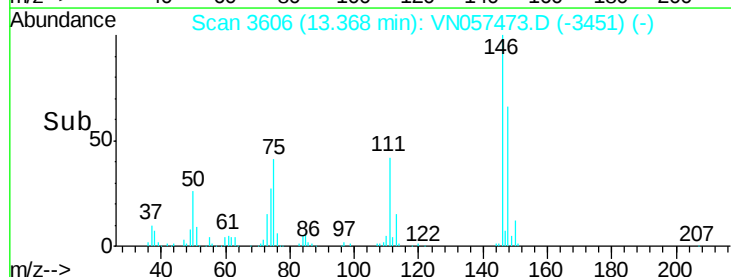
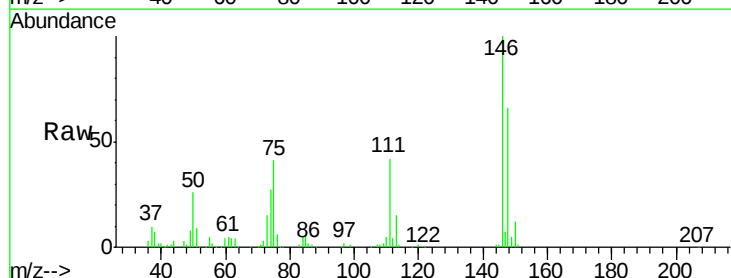
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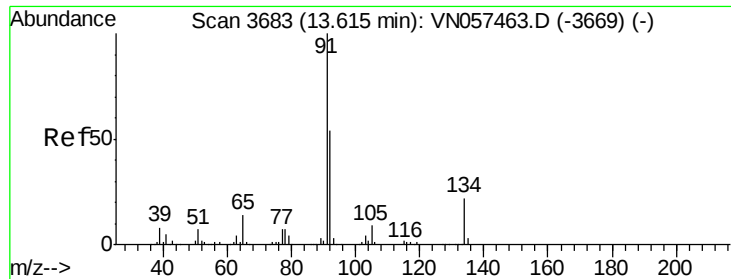
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 8/26/2019 1:12:28 PM



#84
 1,4-Dichlorobenzene
 Concen: 18.514 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.5	61.5
148	64.3	31.9	95.7





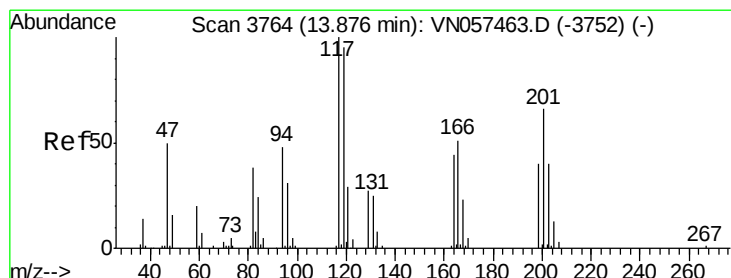
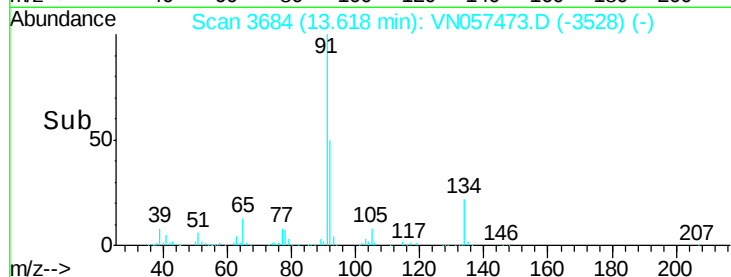
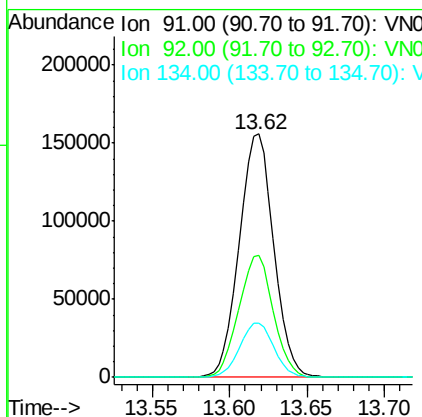
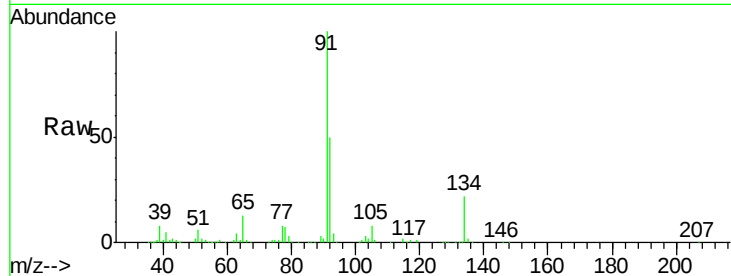
#85
n-Butylbenzene
Concen: 18.703 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
91	100	242206		
92	50.1		0.0	105.6
134	22.2		0.0	46.0

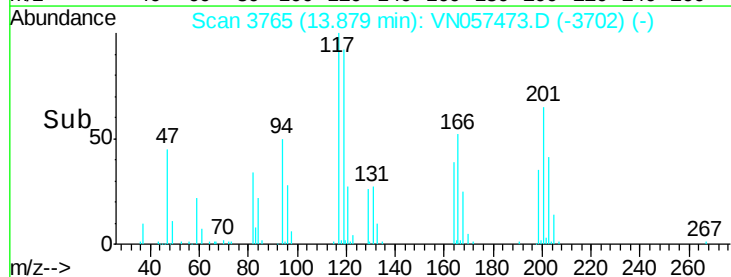
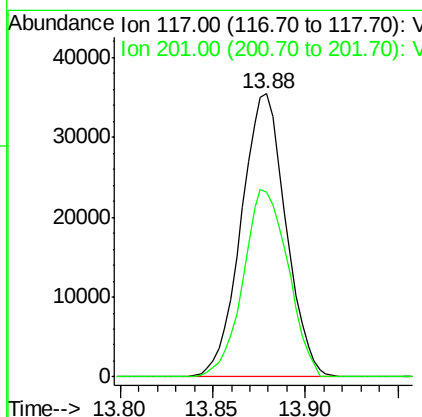
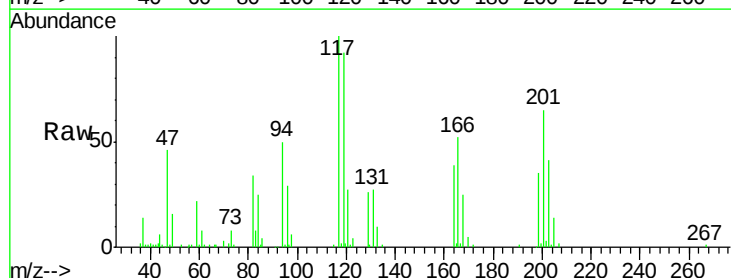
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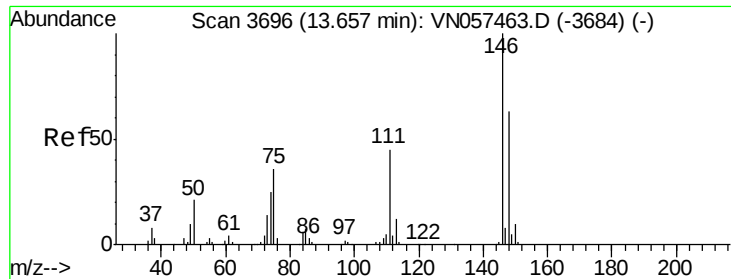
MMDadoda
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#86
Hexachloroethane
Concen: 19.770 ug/l
RT: 13.88 min Scan# 3765
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	59256		
201	66.4		34.0	101.8





#87

1,2-Dichlorobenzene

Concen: 19.767 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Instrument :

MSVOA_N

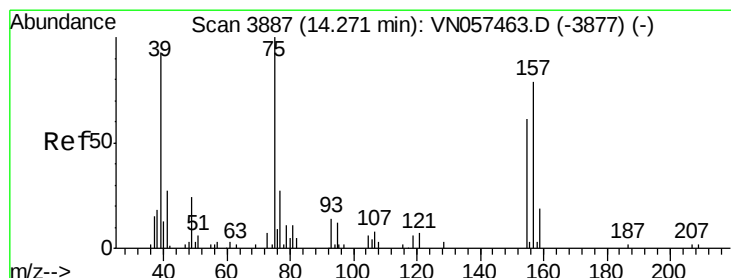
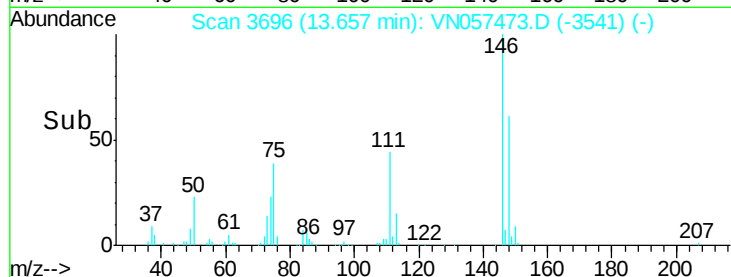
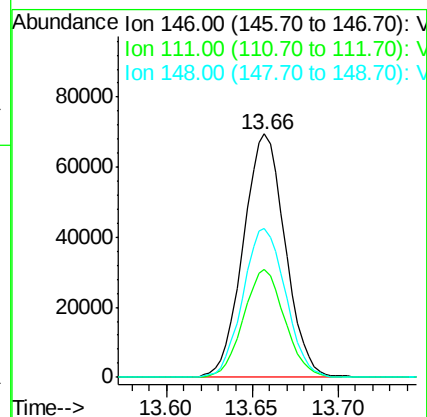
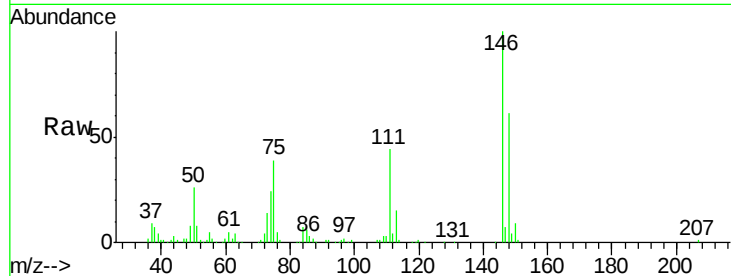
ClientSampleId :

VSTDCCC020EC

Tot Ion:	146	Resp:	117447
Ion Ratio	Lower	Upper	
146	100		
111	43.7	22.5	67.5
148	62.3	30.9	92.7

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#88

1,2-Dibromo-3-Chloropropane

Concen: 20.204 ug/l

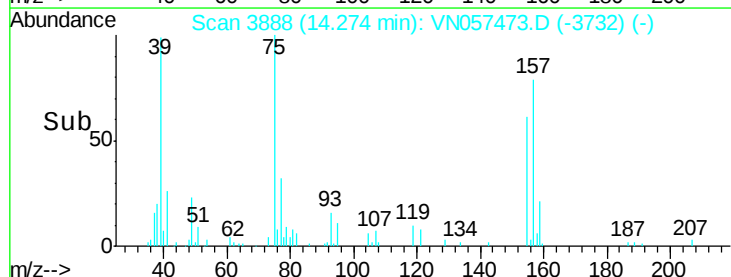
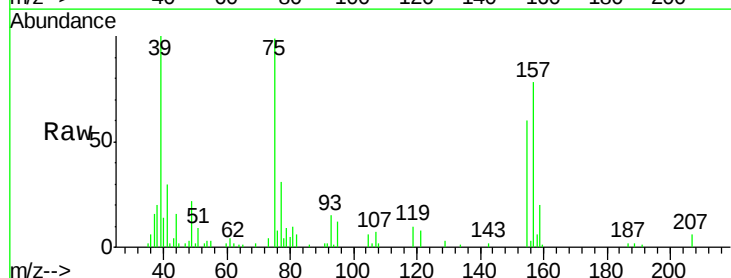
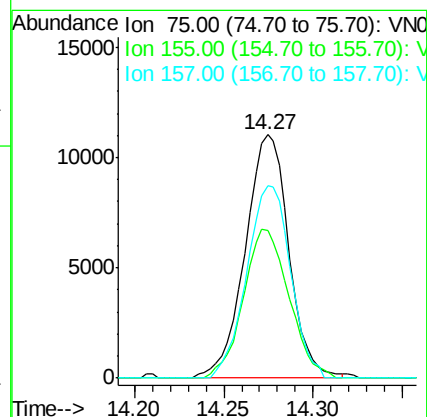
RT: 14.27 min Scan# 3888

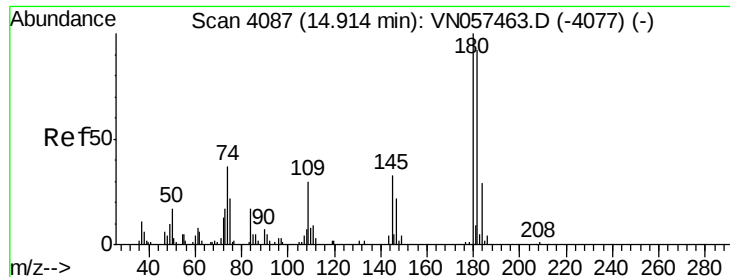
Delta R.T. 0.00 min

Lab File: VN057473.D

Acq: 23 Aug 2019 14:40

Tgt Ion:	75	Resp:	18826
Ion Ratio	Lower	Upper	
75	100		
155	63.8	53.7	80.5
157	79.5	63.5	95.3





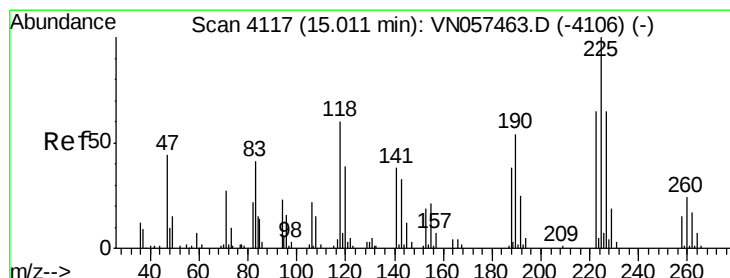
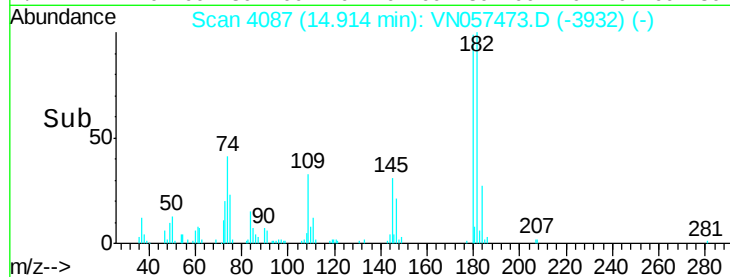
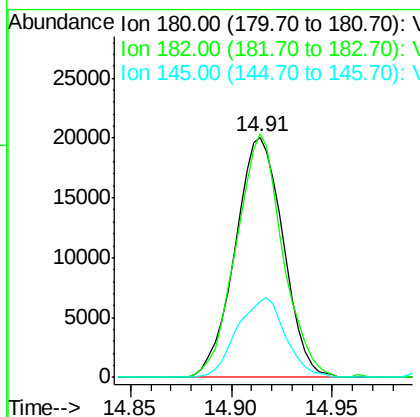
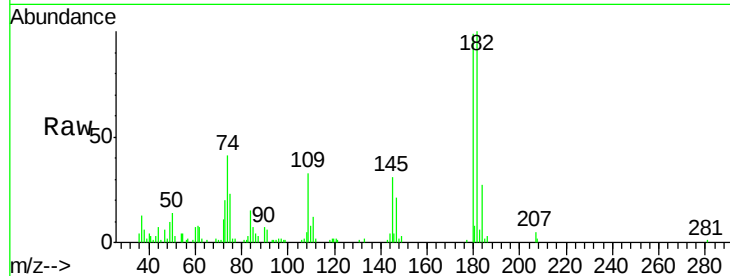
#89
 1,2,4-Trichlorobenzene
 Concen: 15.017 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.4	113.2
145	33.3	26.9	40.3

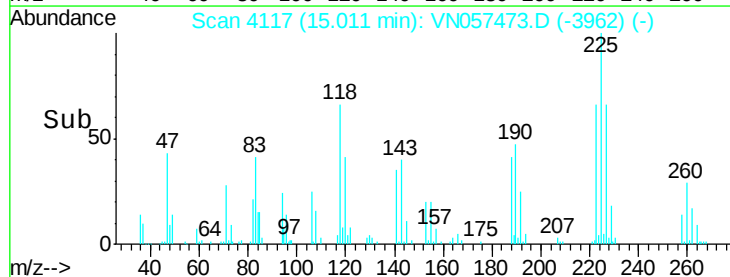
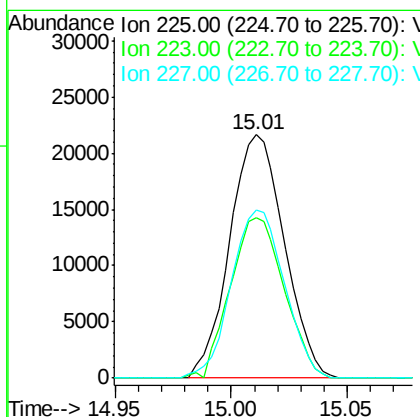
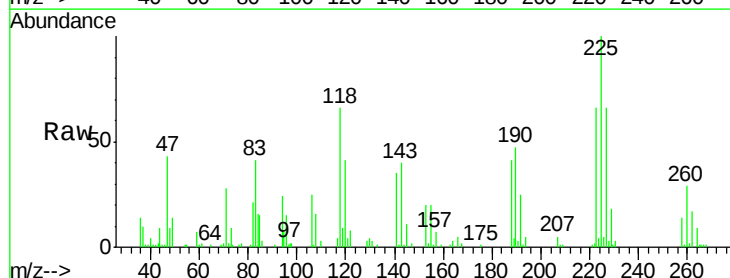
Manual Integrations
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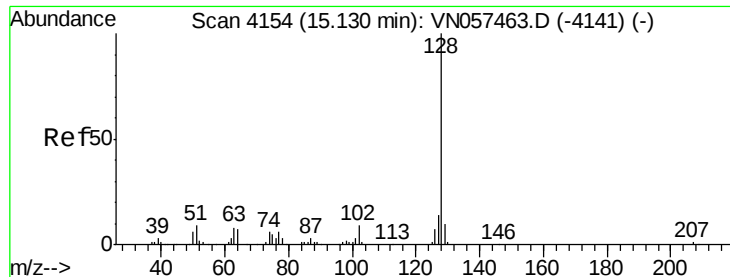
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 8/26/2019 1:12:28 PM



#90
 Hexachlorobutadiene
 Concen: 20.664 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057473.D
 Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.7	0.0	123.6
227	67.1	0.0	126.6





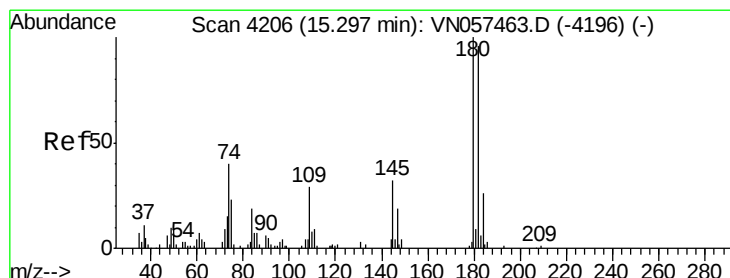
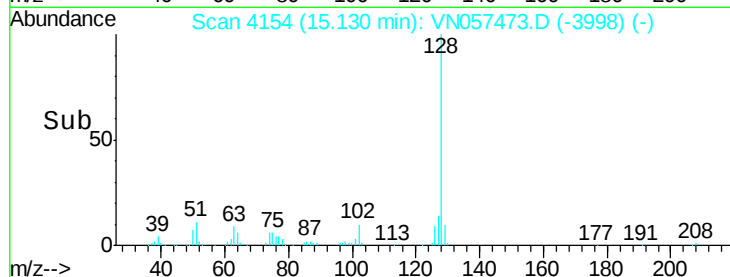
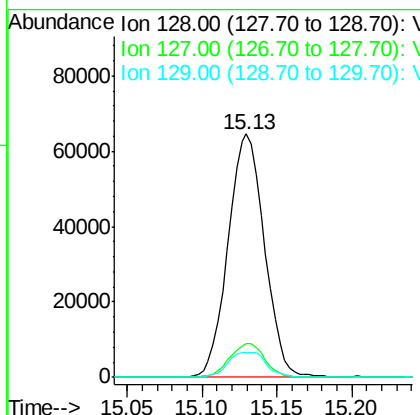
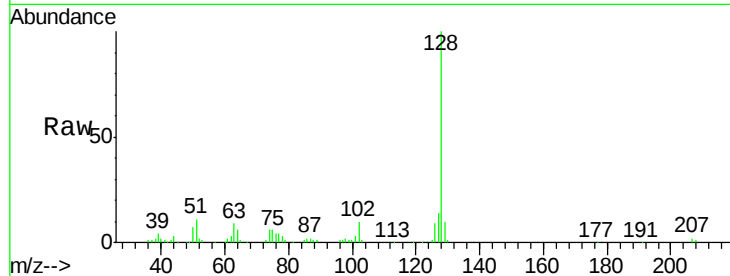
#91
Naphthalene
Concen: 19.909 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
128	100	109128		
127	13.5		10.1	15.1
129	10.9		8.6	13.0

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#92
1,2,3-Trichlorobenzene
Concen: 16.657 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN057473.D
Acq: 23 Aug 2019 14:40

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	37084		
182	91.9		0.0	187.0
145	30.7		0.0	64.4

