

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
 Data File : VN055364.D
 Acq On : 2 May 2019 22:12
 Operator : JC/SP
 Sample : VN0502MBS02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:06 PM

Quant Time: May 03 05:30:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	378919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	632638	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	525094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	195045	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	261337	52.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.44%	
35) Dibromofluoromethane	7.59	113	199155	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	
50) Toluene-d8	10.09	98	732583	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.40	95	237544	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	94245	20.300	ug/l	97
3) Chloromethane	2.06	50	105838	18.411	ug/l	100
4) Vinyl Chloride	2.19	62	93823	20.247	ug/l	98
5) Bromomethane	2.57	94	51835	21.118	ug/l	98
6) Chloroethane	2.71	64	51361	20.460	ug/l	97
7) Trichlorofluoromethane	3.02	101	132901	20.169	ug/l	98
8) Diethyl Ether	3.41	74	51917	22.520	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	78879	20.103	ug/l	99
10) Methyl Iodide	3.96	142	106011	19.198	ug/l	99
11) Tert butyl alcohol	4.80	59	34174	120.412	ug/l #	73
12) 1,1-Dichloroethene	3.74	96	74991	20.035	ug/l	96
13) Acrolein	3.62	56	14993	67.644	ug/l	97
14) Allyl chloride	4.33	41	155831	20.101	ug/l	99
15) Acrylonitrile	5.00	53	178783	112.071	ug/l	98
16) Acetone	3.82	43	134847	87.304	ug/l	98
17) Carbon Disulfide	4.06	76	174494	17.863	ug/l	99
18) Methyl Acetate	4.33	43	91448	23.761	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	237813	22.600	ug/l	98
20) Methylene Chloride	4.55	84	91645	19.439	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	79538	20.064	ug/l	97
22) Diisopropyl ether	5.96	45	338659	21.986	ug/l	97
23) Vinyl Acetate	5.90	43	1129519	111.887	ug/l	100
24) 1,1-Dichloroethane	5.85	63	173206	21.105	ug/l	99
25) 2-Butanone	6.84	43	209418	106.018	ug/l	99
26) 2,2-Dichloropropane	6.83	77	92676	16.353	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	92322	20.479	ug/l	99
28) Bromochloromethane	7.19	49	87097	21.054	ug/l	100
29) Tetrahydrofuran	7.21	42	145163	114.767	ug/l	99
30) Chloroform	7.37	83	159845	20.546	ug/l	97
31) Cyclohexane	7.66	56	151387	19.415	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	131031	20.752	ug/l	100
36) 1,1-Dichloropropene	7.80	75	112110	18.501	ug/l	100
37) Ethyl Acetate	6.94	43	102264	22.020	ug/l	99
38) Carbon Tetrachloride	7.78	117	108074	18.489	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
 Data File : VN055364.D
 Acq On : 2 May 2019 22:12
 Operator : JC/SP
 Sample : VN0502MBS02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:06 PM

Quant Time: May 03 05:30:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:16:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	123288	19.136	ug/l	97
40) Benzene	8.04	78	351852	19.697	ug/l	99
41) Methacrylonitrile	7.18	41	48408m	19.714	ug/l	
42) 1,2-Dichloroethane	8.13	62	125678	19.864	ug/l	99
43) Isopropyl Acetate	8.17	43	171088	22.923	ug/l #	86
44) Trichloroethene	8.84	130	88769	19.493	ug/l	98
45) 1,2-Dichloropropane	9.12	63	102520	19.898	ug/l	96
46) Dibromomethane	9.21	93	55946	19.866	ug/l	99
47) Bromodichloromethane	9.40	83	119408	19.764	ug/l	98
48) Methyl methacrylate	9.20	41	78003	21.259	ug/l	98
49) 1,4-Dioxane	9.20	88	16114	424.848	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	463316	110.258	ug/l	99
52) Toluene	10.16	92	205521	20.052	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	102484	19.540	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	129015	19.730	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	78366	20.590	ug/l	96
56) Ethyl methacrylate	10.43	69	100551	21.464	ug/l	98
57) 1,3-Dichloropropane	10.71	76	137280	20.560	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	118079	89.591	ug/l	97
59) 2-Hexanone	10.75	43	291598	110.908	ug/l	98
60) Dibromochloromethane	10.90	129	78117	20.082	ug/l	98
61) 1,2-Dibromoethane	11.01	107	72557	20.625	ug/l	99
64) Tetrachloroethene	10.63	164	88593	20.631	ug/l	98
65) Chlorobenzene	11.44	112	205256	19.993	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	79480	19.771	ug/l	99
67) Ethyl Benzene	11.51	91	375161	20.237	ug/l	99
68) m/p-Xylenes	11.62	106	272206	41.135	ug/l	98
69) o-Xylene	11.95	106	135693	20.688	ug/l	99
70) Styrene	11.96	104	214600	21.310	ug/l	100
71) Bromoform	12.13	173	47165	21.144	ug/l #	98
73) Isopropylbenzene	12.25	105	357568	21.220	ug/l	99
74) N-amyl acetate	12.07	43	110399	22.055	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	94639	22.757	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	89524m	23.352	ug/l	
77) Bromobenzene	12.53	156	83440	21.153	ug/l	98
78) n-propylbenzene	12.59	91	383583	19.145	ug/l	99
79) 2-Chlorotoluene	12.67	91	242554	21.425	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	300479	19.651	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	18813	18.279	ug/l	89
82) 4-Chlorotoluene	12.77	91	227832	19.558	ug/l	98
83) tert-Butylbenzene	12.99	119	258977	22.317	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	287945	21.056	ug/l	100
85) sec-Butylbenzene	13.17	105	319330	19.214	ug/l	98
86) p-Isopropyltoluene	13.29	119	272086	19.918	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	131024	20.075	ug/l	97
88) 1,4-Dichlorobenzene	13.36	146	123103	20.029	ug/l	98
89) n-Butylbenzene	13.62	91	192058	19.786	ug/l	98
90) Hexachloroethane	13.87	117	43578	19.177	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	134945	20.861	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	13396	26.106	ug/l	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN050219\
Data File : VN055364.D
Acq On : 2 May 2019 22:12
Operator : JC/SP
Sample : VN0502MBS02
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

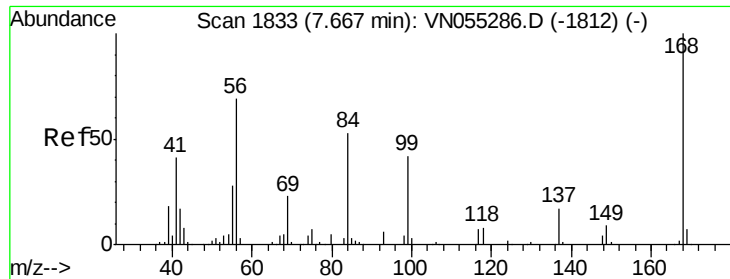
Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

Quant Time: May 03 05:30:54 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042919W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 30 07:16:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	38525	17.417	ug/l	99
94) Hexachlorobutadiene	15.01	225	45805	21.962	ug/l	97
95) Naphthalene	15.13	128	88464	18.560	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	45521	19.791	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 168 Resp: 378919

Ion Ratio Lower Upper

168 100

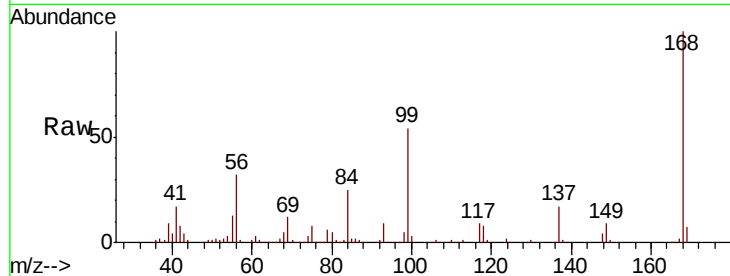
99 52.8 43.6 65.4

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



Abundance Ion 167.90 (167.60 to 168.60): VN055286.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN055286.D (-1812) (-)

7.67

150000

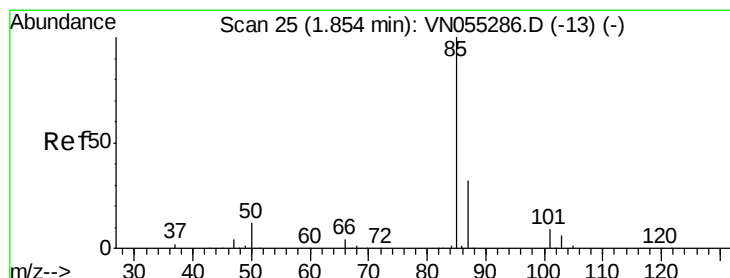
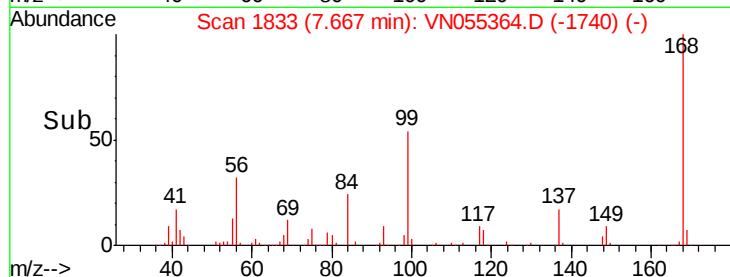
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 20.300 ug/l

RT: 1.85 min Scan# 25

Delta R.T. 0.00 min

Lab File: VN055364.D

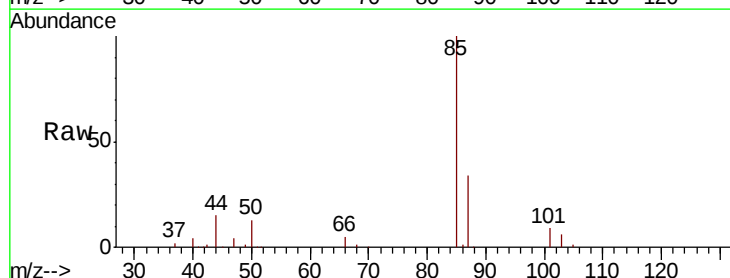
Acq: 2 May 2019 22:12

Tgt Ion: 85 Resp: 94245

Ion Ratio Lower Upper

85 100

87 33.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN055286.D (-13) (-)

Ion 86.90 (86.60 to 87.60): VN055286.D (-13) (-)

1.85

60000

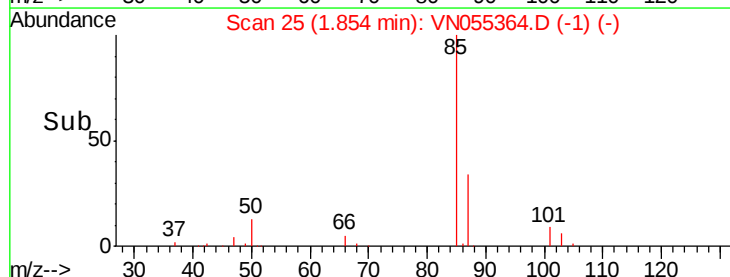
40000

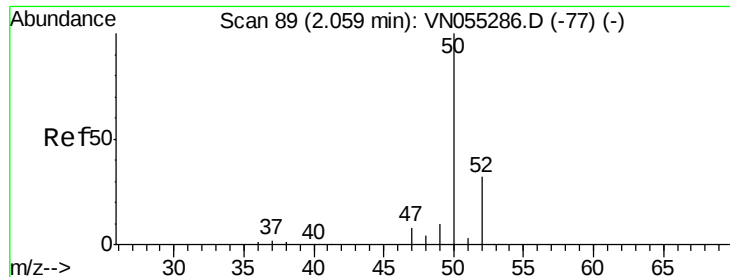
20000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.411 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 50 Resp: 105838

Ion Ratio Lower Upper

50 100

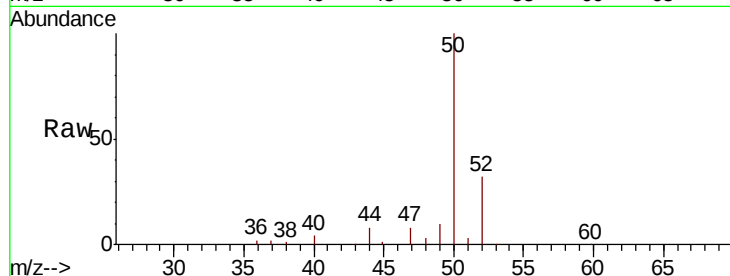
52 31.9 25.7 38.5

Manual Integrations

APPROVED

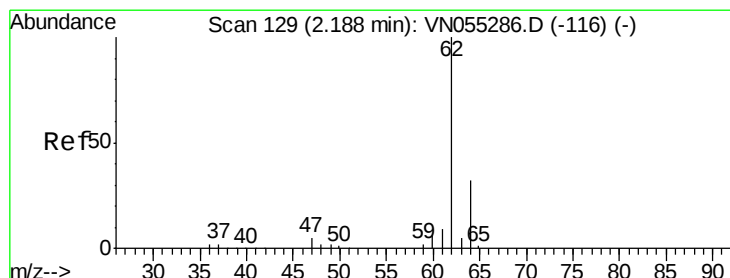
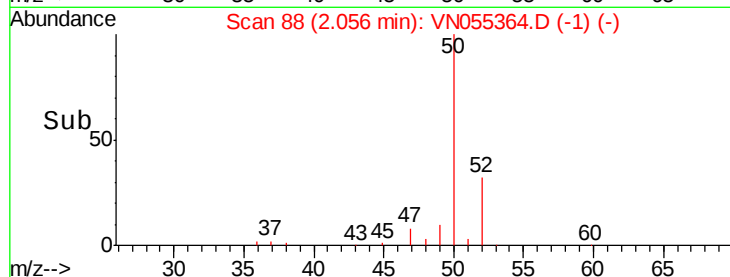
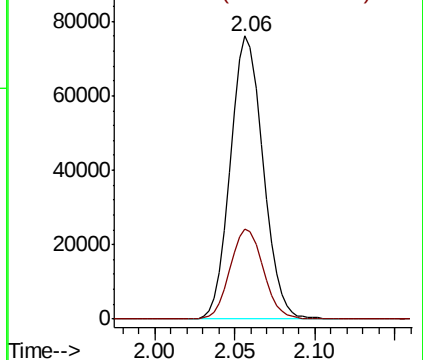
MMDadoda

5/3/2019 1:08:06 PM



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 20.247 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055364.D

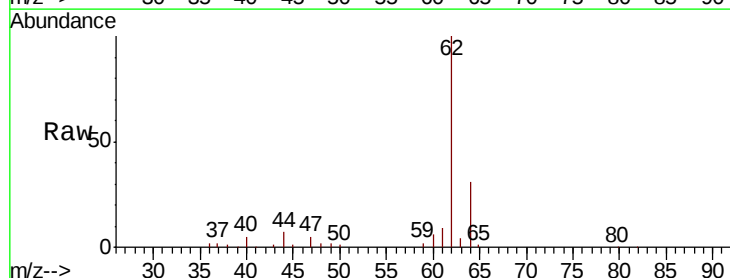
Acq: 2 May 2019 22:12

Tgt Ion: 62 Resp: 93823

Ion Ratio Lower Upper

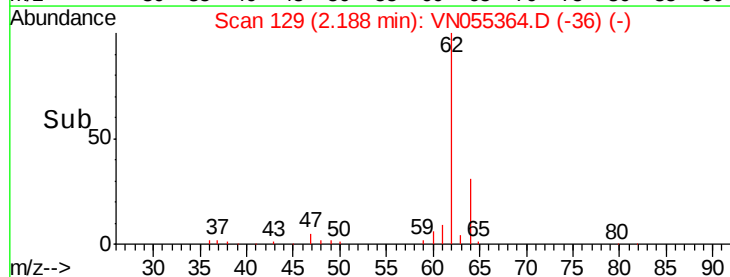
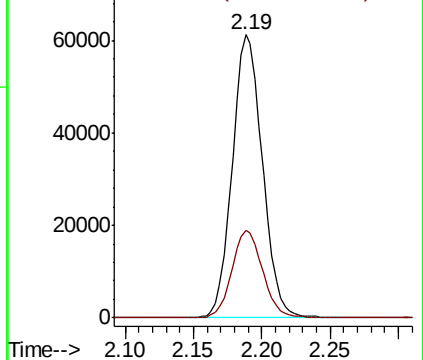
62 100

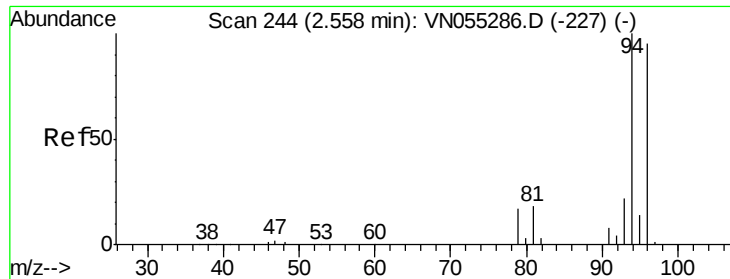
64 31.0 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 21.118 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.01 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 94 Resp: 51835

Ion Ratio Lower Upper

94 100

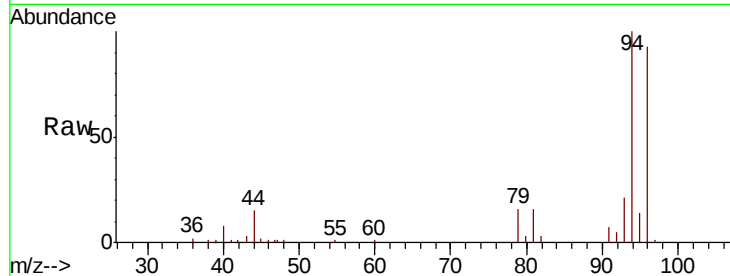
96 92.8 76.0 114.0

Manual Integrations

APPROVED

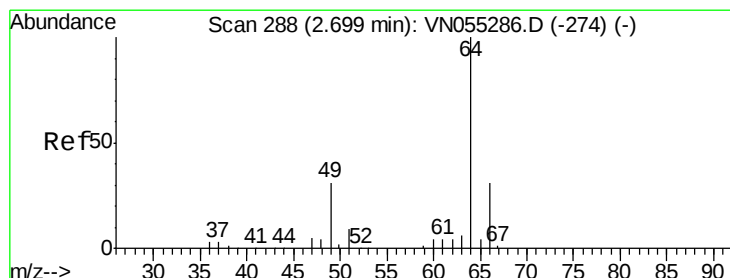
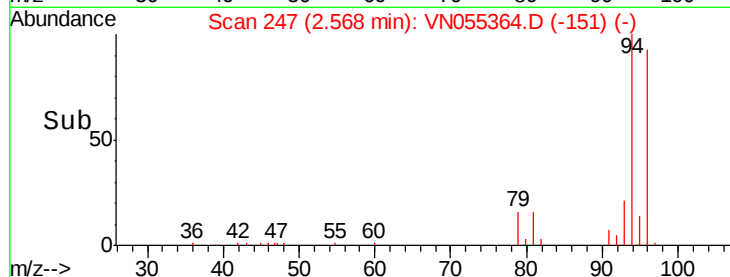
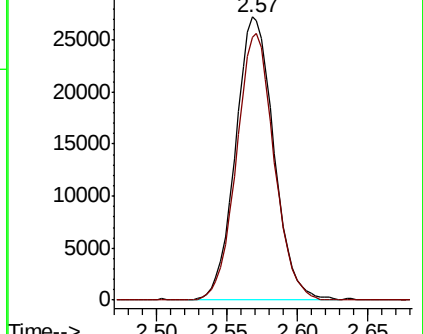
MMDadoda

5/3/2019 1:08:06 PM



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.460 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.01 min

Lab File: VN055364.D

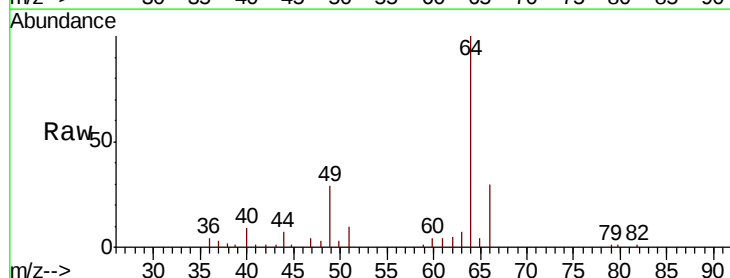
Acq: 2 May 2019 22:12

Tgt Ion: 64 Resp: 51361

Ion Ratio Lower Upper

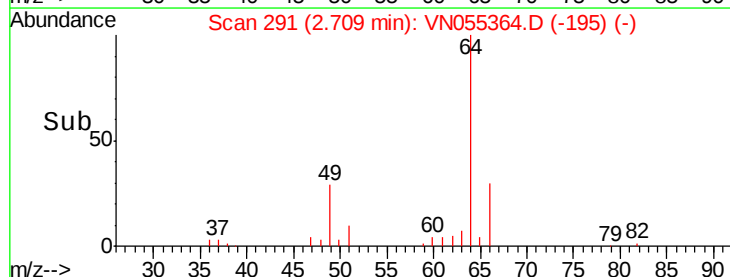
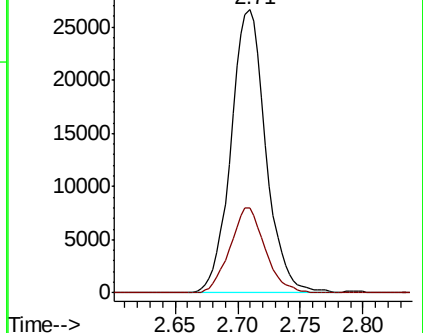
64 100

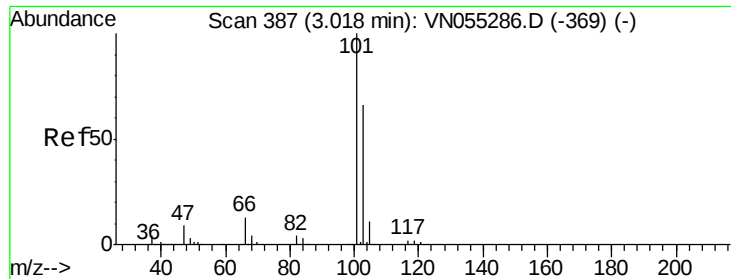
66 29.8 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

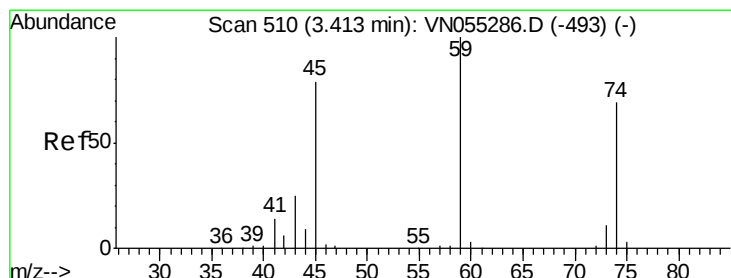
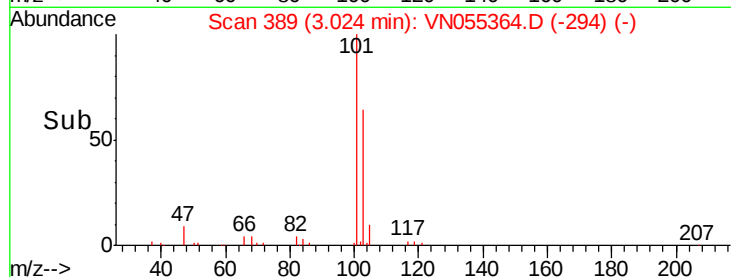
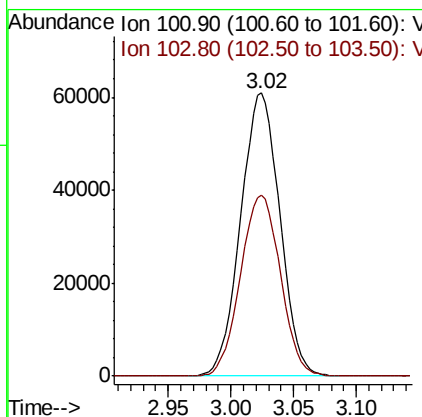
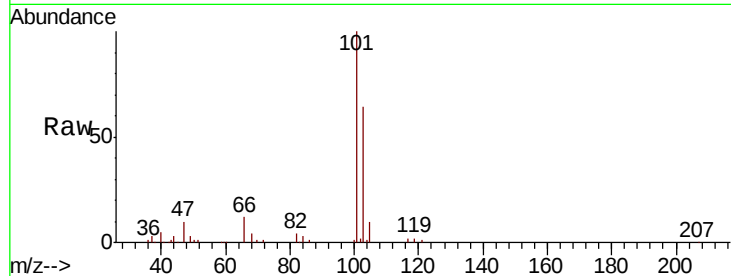
Trichlorofluoromethane
 Concen: 20.169 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.01 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.6	79.0

Manual Integrations
 APPROVED

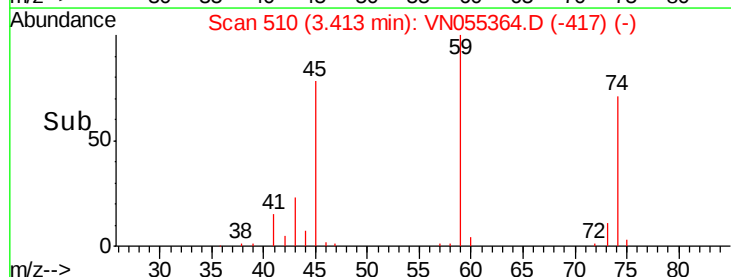
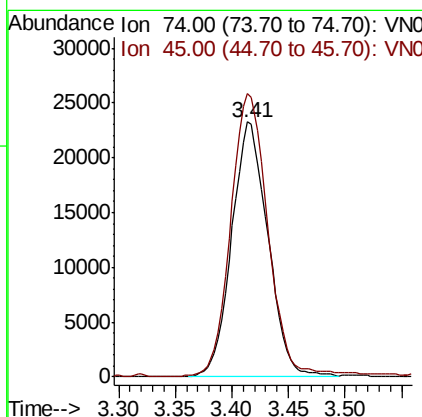
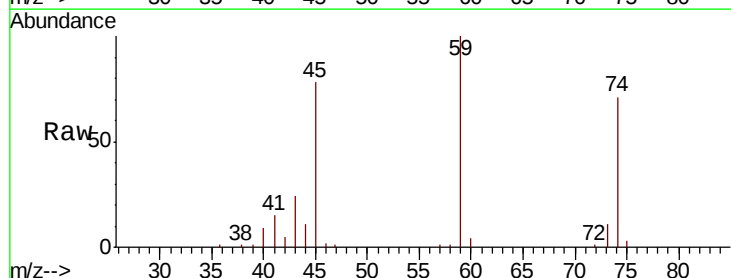
MMDadoda
 5/3/2019 1:08:06 PM

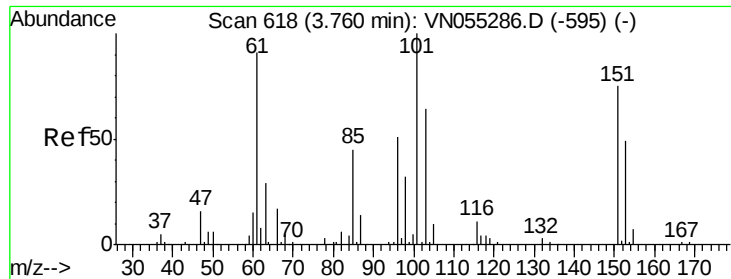


#8

Diethyl Ether
 Concen: 22.520 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	113.3	58.9	176.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.103 ug/l

RT: 3.76 min Scan# 619

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

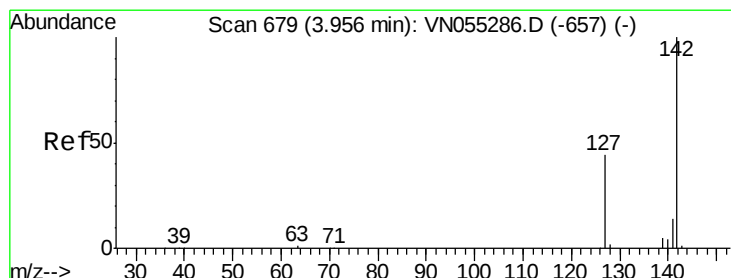
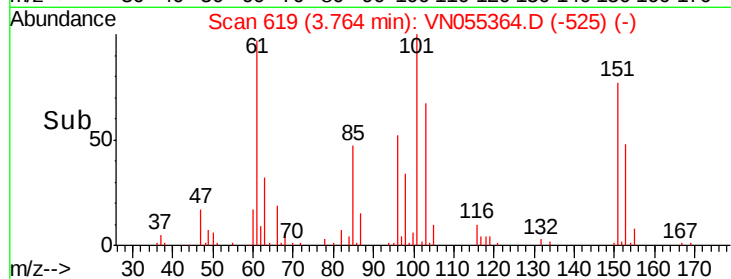
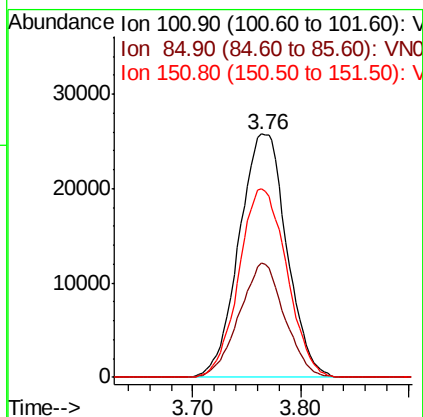
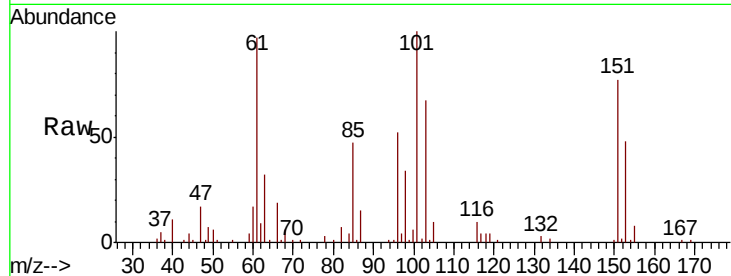
ClientSampleId :

VN0502MBS02

Tgt Ion:	101	Resp:	78879
Ion Ratio	Lower	Upper	
101	100		
85	44.7	35.7	53.5
151	77.8	63.3	94.9

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM



#10

Methyl Iodide

Concen: 19.198 ug/l

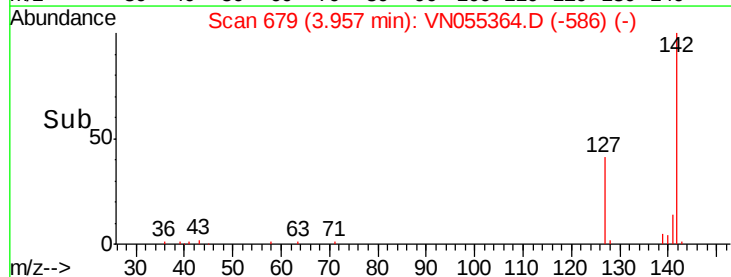
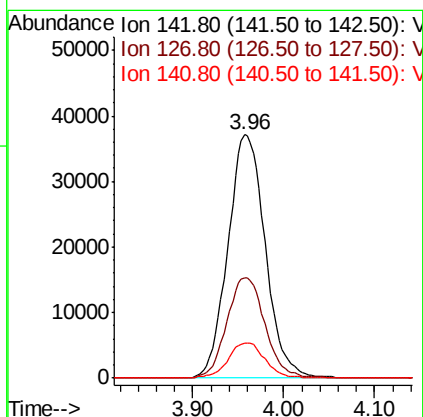
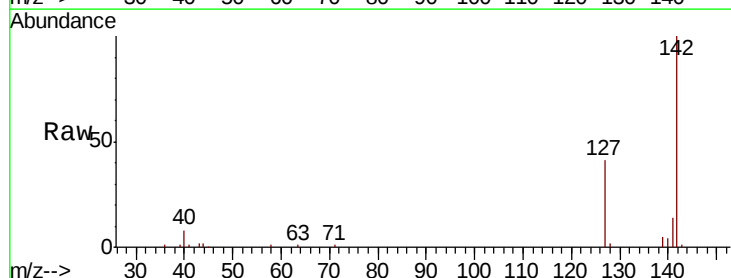
RT: 3.96 min Scan# 679

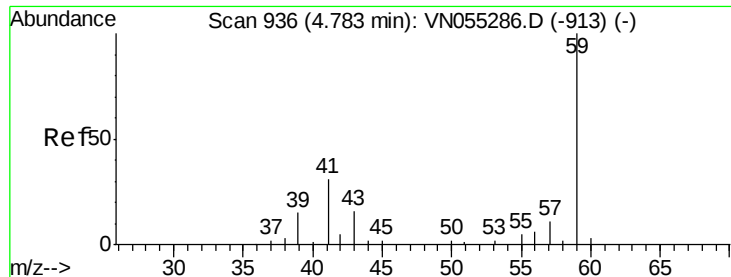
Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Tgt Ion:	142	Resp:	106011
Ion Ratio	Lower	Upper	
142	100		
127	41.9	34.4	51.6
141	14.2	11.5	17.3





#11

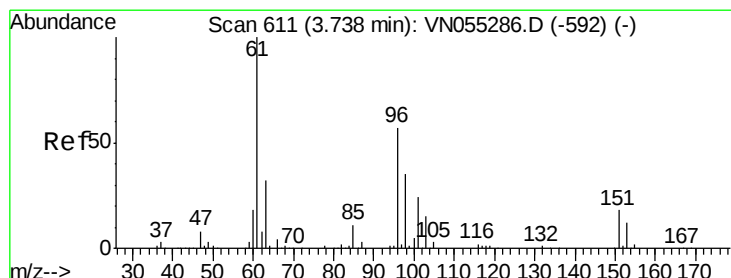
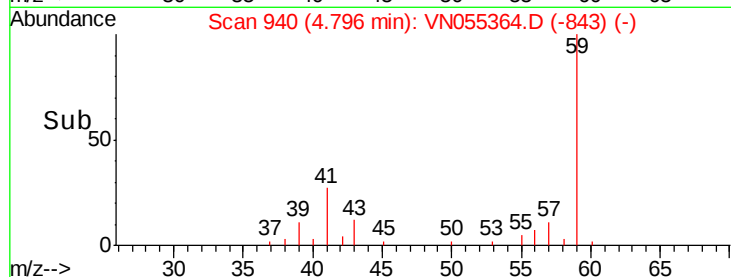
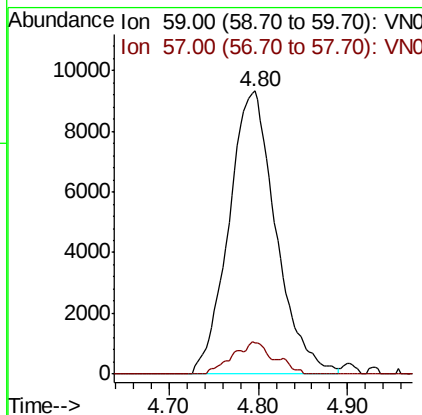
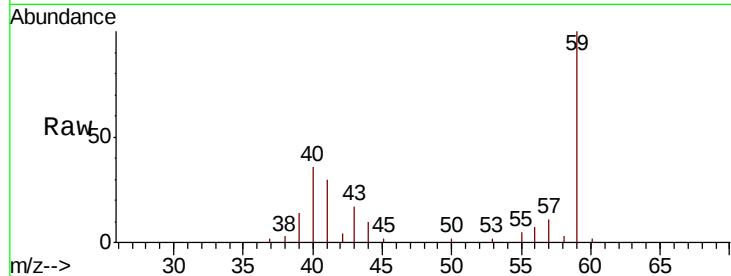
Tert butyl alcohol
 Concen: 120.412 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

Manual Integrations
 APPROVED

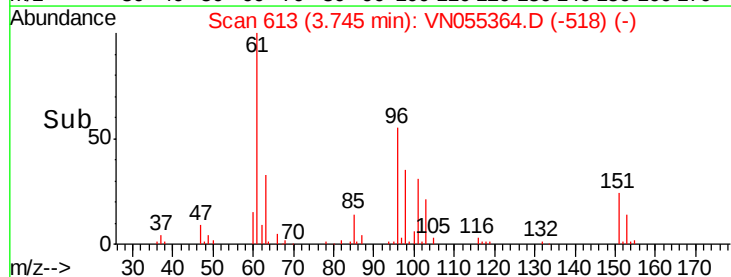
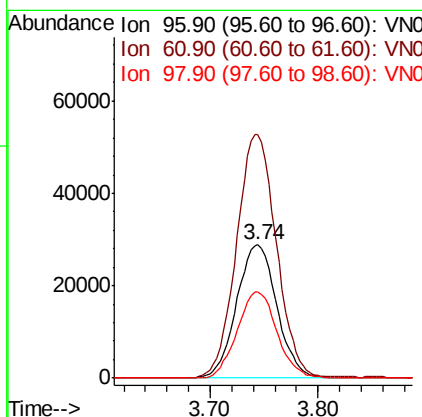
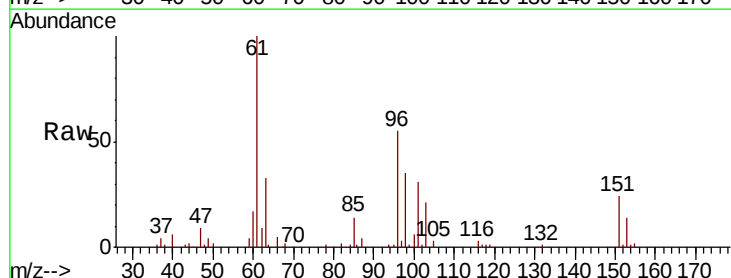
MMDadoda
 5/3/2019 1:08:06 PM

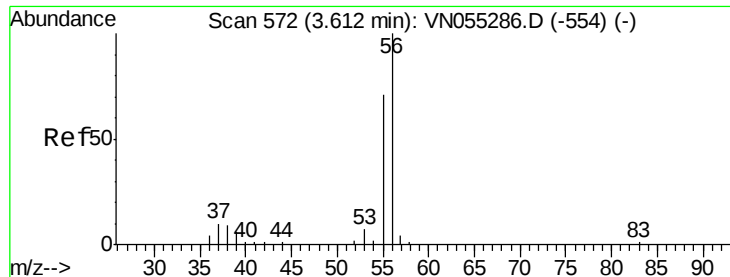


#12

1,1-Dichloroethene
 Concen: 20.035 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	182.7	140.9	211.3
98	64.8	50.0	75.0





#13

Acrolein

Concen: 67.644 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 56 Resp: 14993

Ion Ratio Lower Upper

56 100

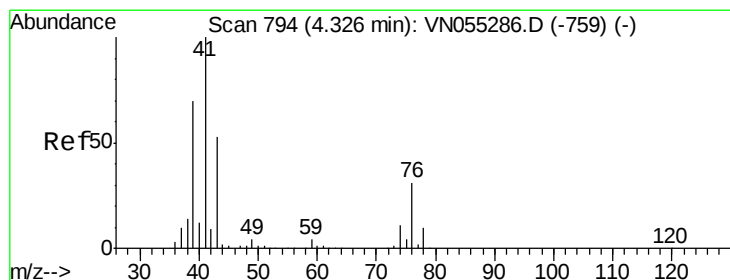
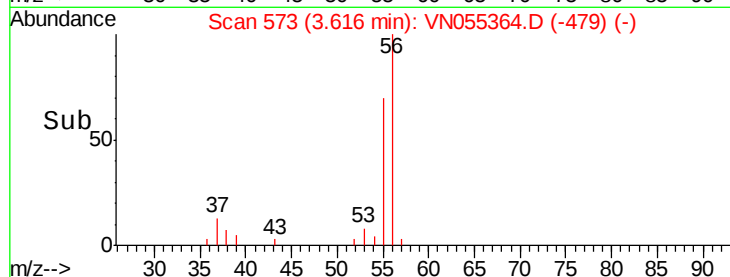
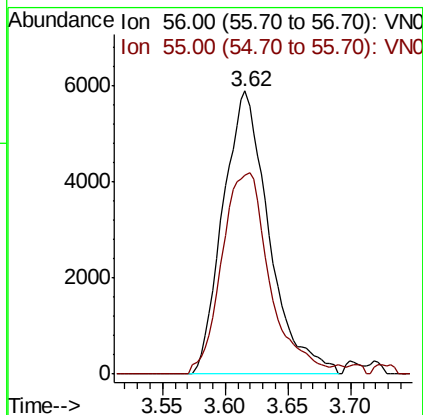
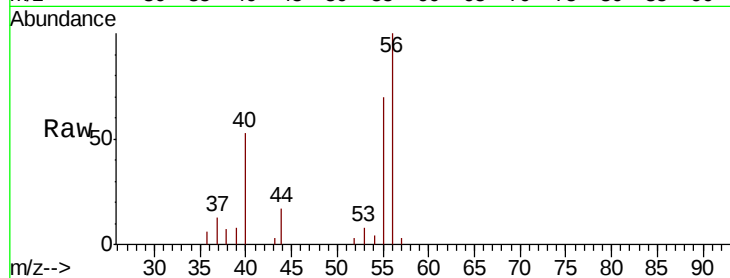
55 74.1 57.4 86.2

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



#14

Allyl chloride

Concen: 20.101 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

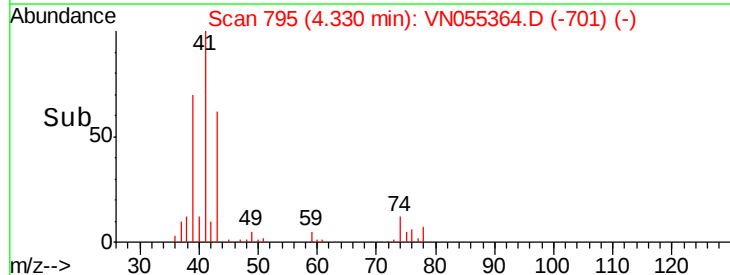
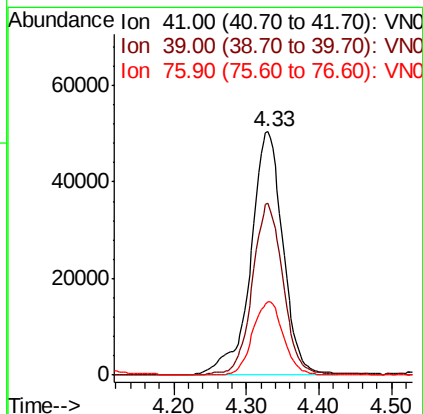
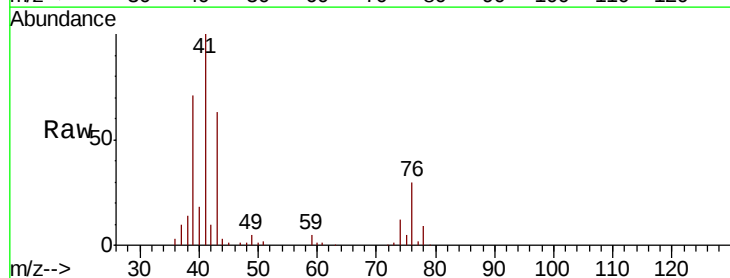
Tgt Ion: 41 Resp: 155831

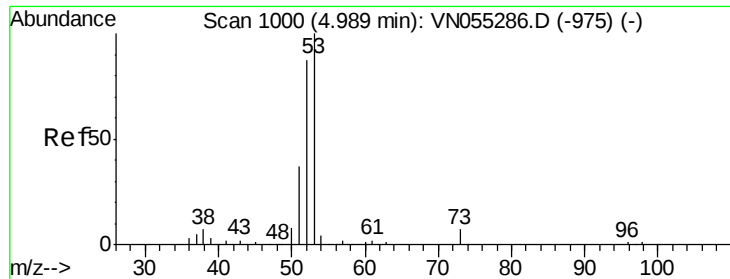
Ion Ratio Lower Upper

41 100

39 67.4 53.0 79.6

76 28.7 22.7 34.1





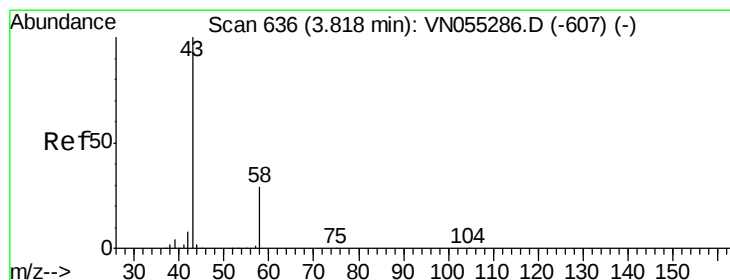
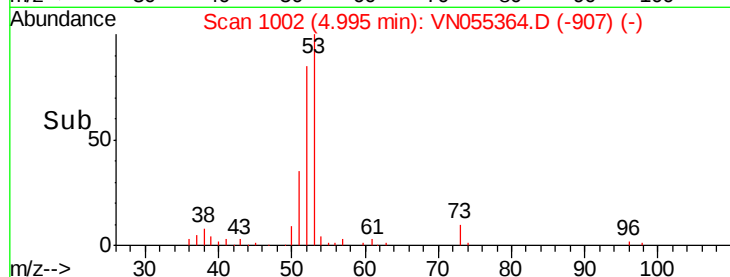
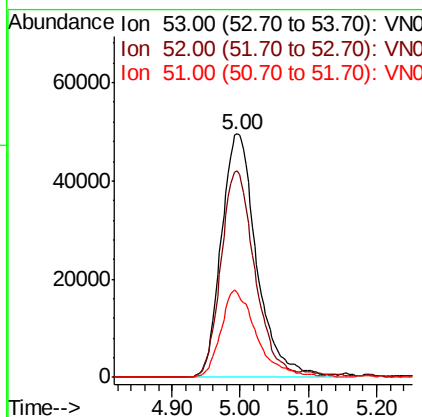
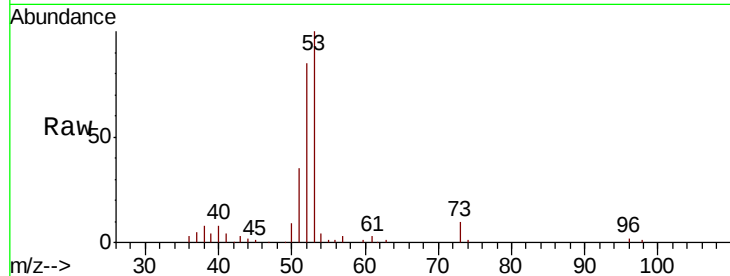
#15
 Acrylonitrile
 Concen: 112.071 ug/l
 RT: 5.00 min Scan# 1002
 Delta R.T. 0.01 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.5	99.7
51	36.0	29.6	44.4

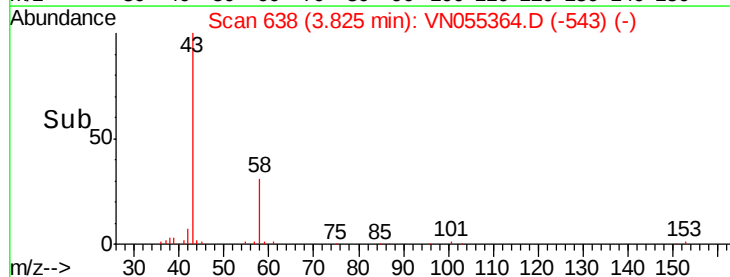
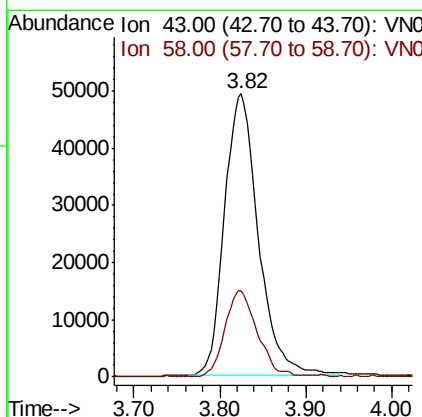
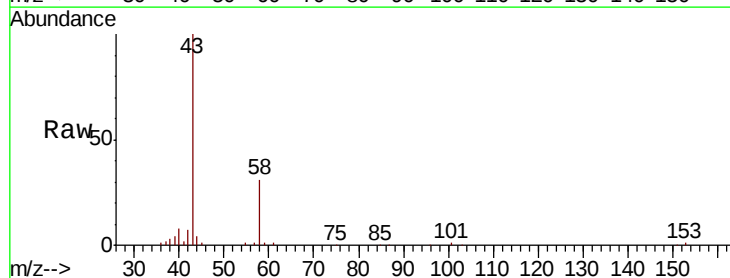
Manual Integrations
 APPROVED

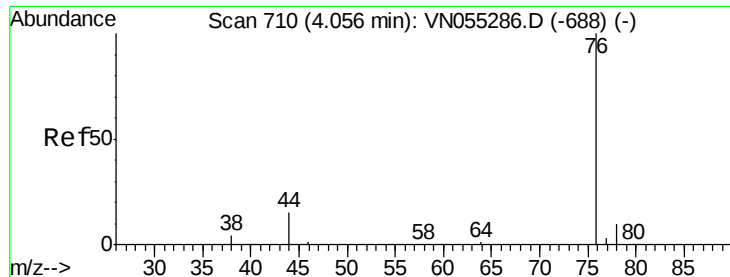
MMDadoda
 5/3/2019 1:08:06 PM



#16
 Acetone
 Concen: 87.304 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.6	35.4





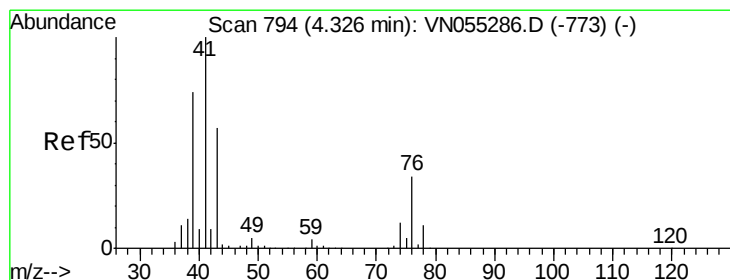
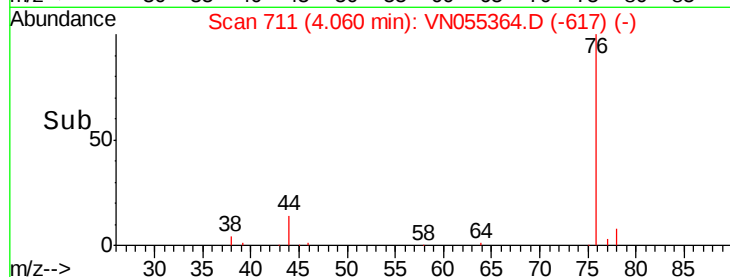
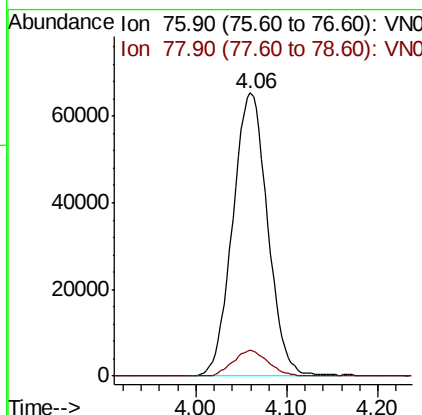
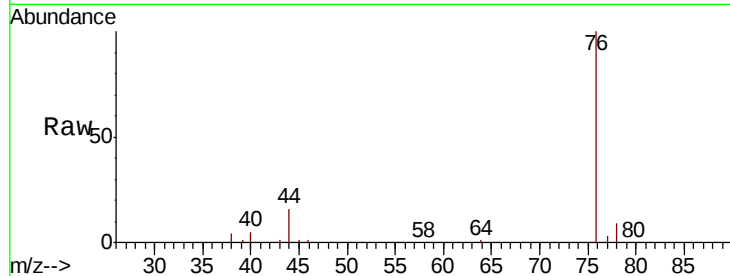
#17
Carbon Disulfide
Concen: 17.863 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 76 Resp: 174494
Ion Ratio Lower Upper
76 100
78 9.1 7.6 11.4

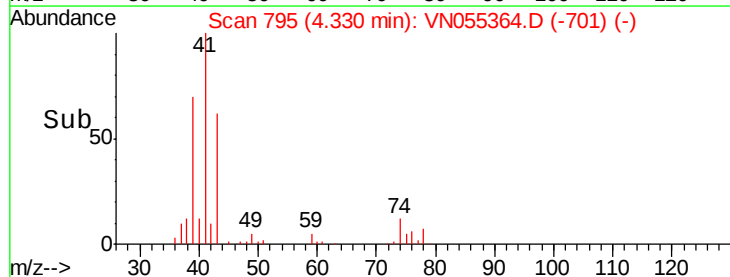
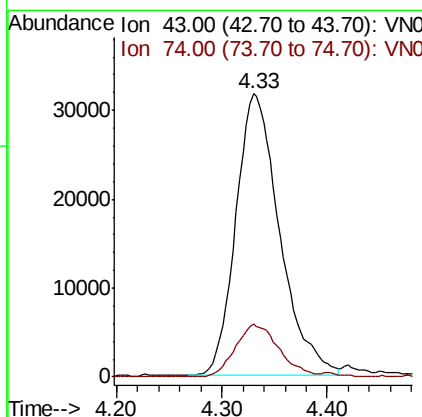
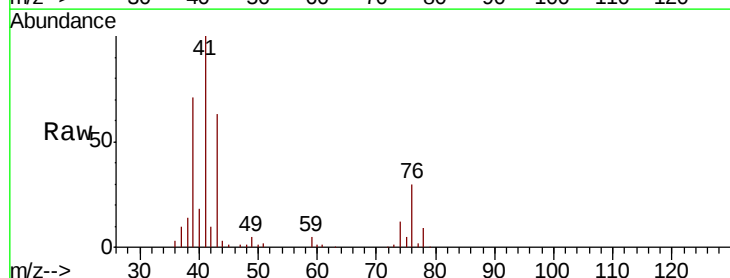
Manual Integrations
APPROVED

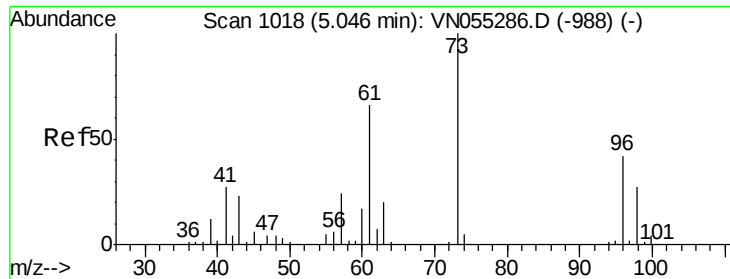
MMDadoda
5/3/2019 1:08:06 PM



#18
Methyl Acetate
Concen: 23.761 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 43 Resp: 91448
Ion Ratio Lower Upper
43 100
74 18.6 15.8 23.8





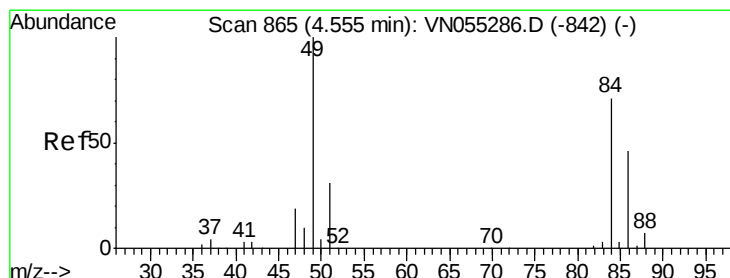
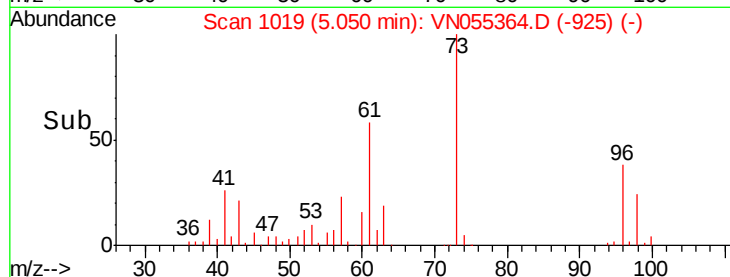
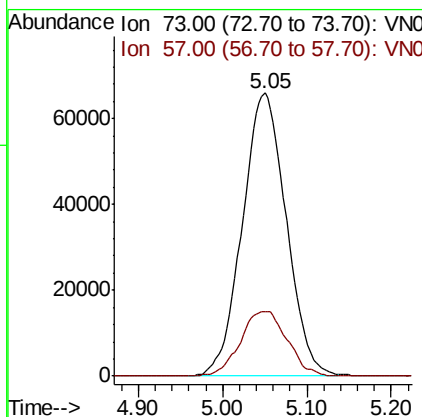
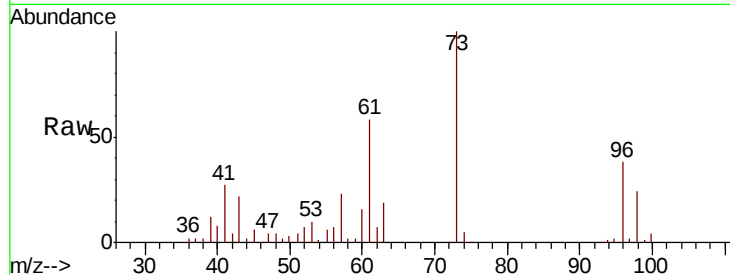
#19
Methyl tert-butyl Ether
Concen: 22.600 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 73 Resp: 237813
Ion Ratio Lower Upper
73 100
57 22.9 19.1 28.7

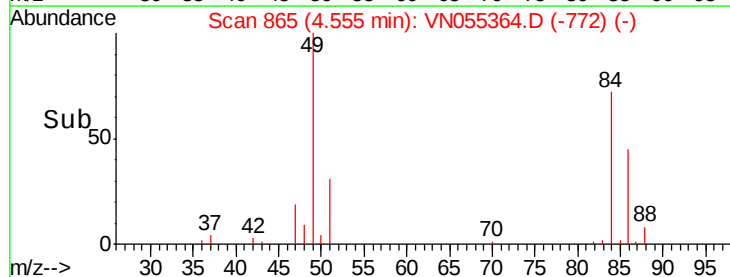
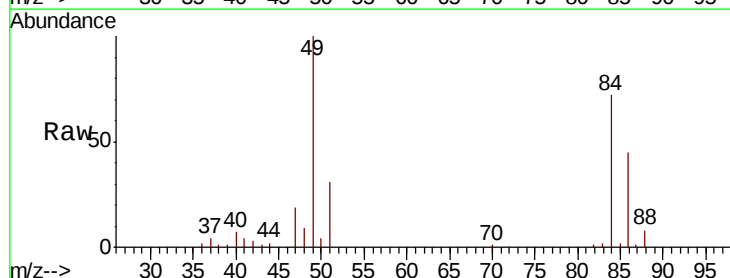
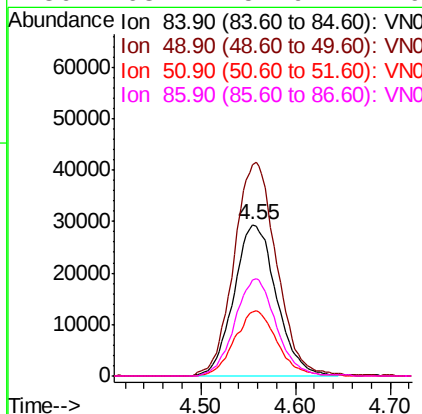
Manual Integrations
APPROVED

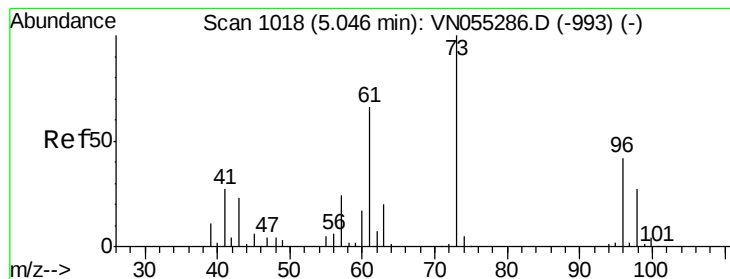
MMDadoda
5/3/2019 1:08:06 PM



#20
Methylene Chloride
Concen: 19.439 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 84 Resp: 91645
Ion Ratio Lower Upper
84 100
49 139.2 112.4 168.6
51 42.5 34.6 51.8
86 63.2 51.9 77.9





#21

trans-1,2-Dichloroethene

Concen: 20.064 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampled :

VN0502MBS02

Tgt Ion: 96 Resp: 79538

Ion Ratio Lower Upper

96 100

61 153.6 126.2 189.4

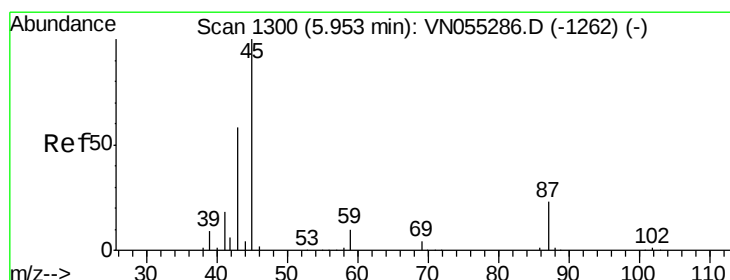
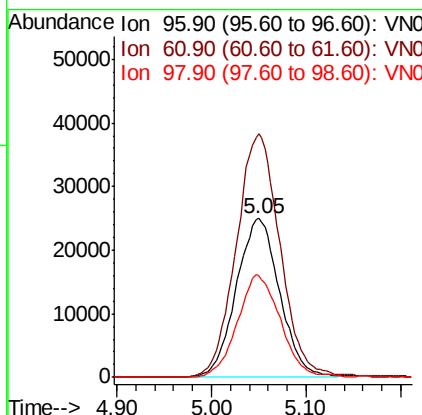
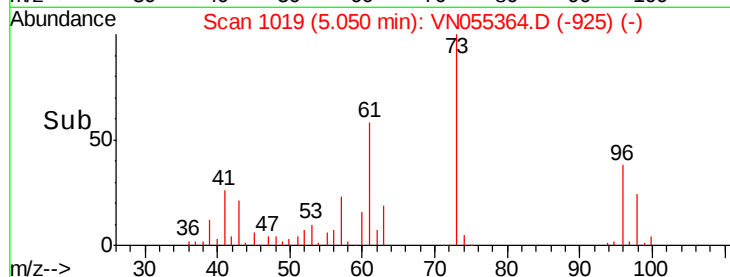
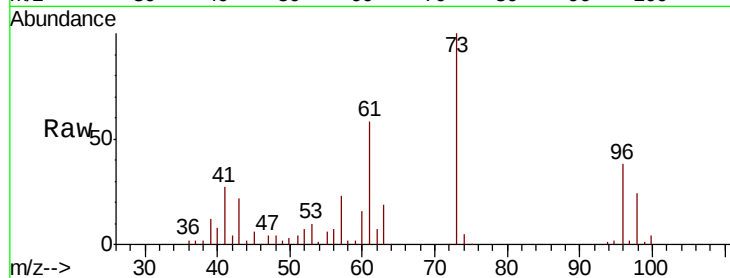
98 64.5 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



#22

Diisopropyl ether

Concen: 21.986 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Tgt Ion: 45 Resp: 338659

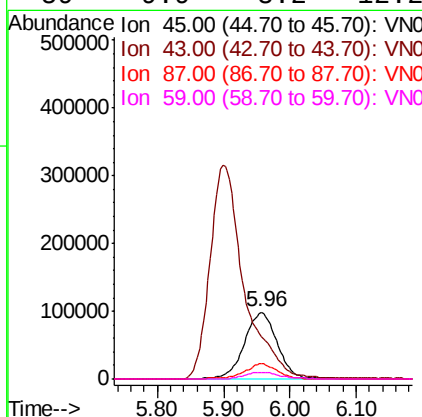
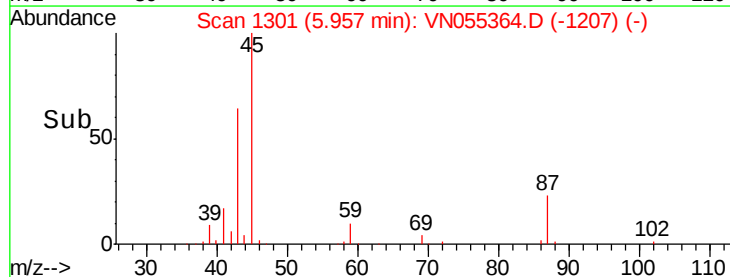
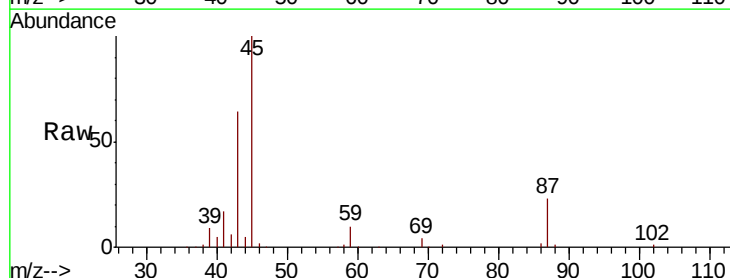
Ion Ratio Lower Upper

45 100

43 61.8 46.6 70.0

87 22.5 18.1 27.1

59 9.9 8.2 12.2





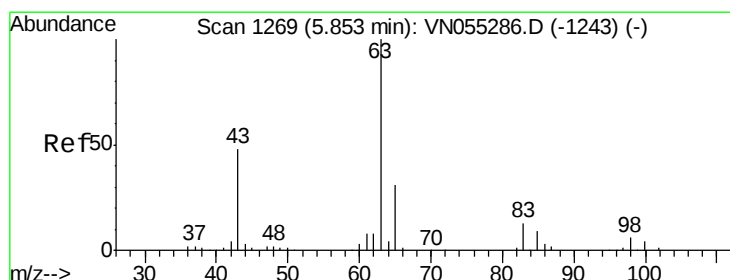
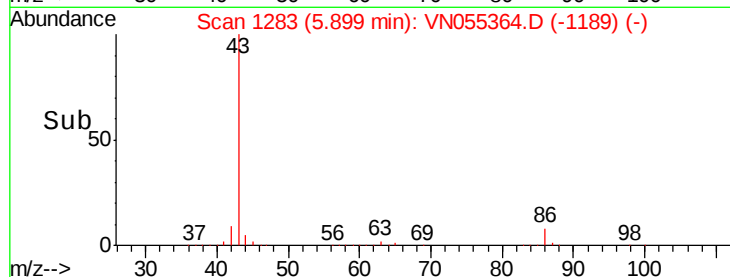
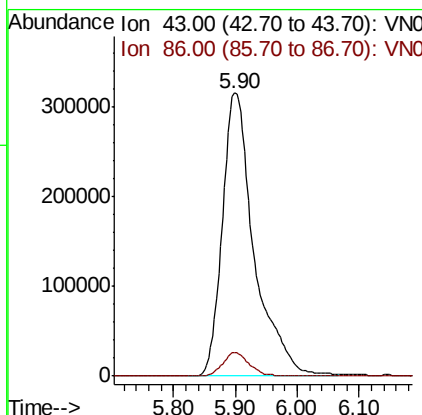
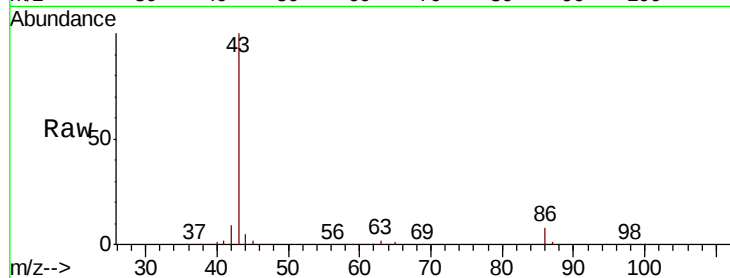
#23
 Vinyl Acetate
 Concen: 111.887 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion: 43 Resp: 1129519
 Ion Ratio Lower Upper
 43 100
 86 8.3 6.6 10.0

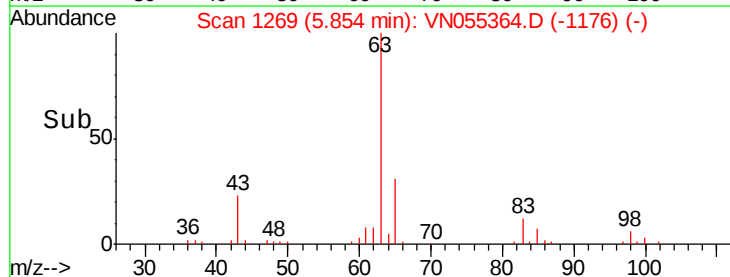
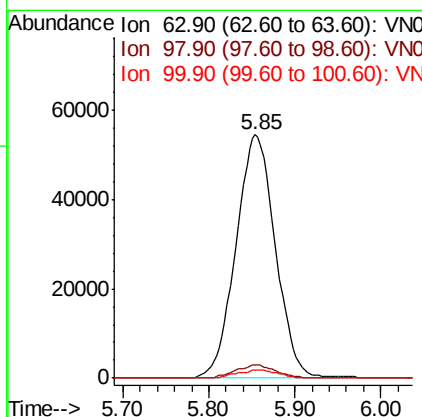
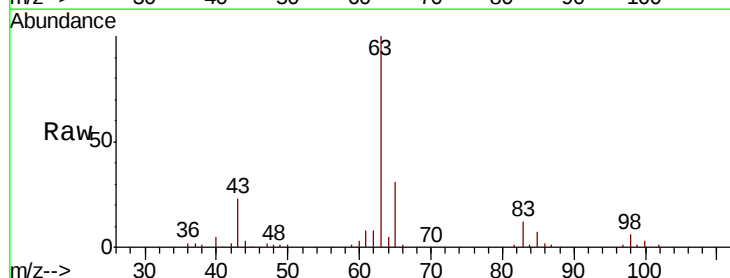
Manual Integrations
 APPROVED

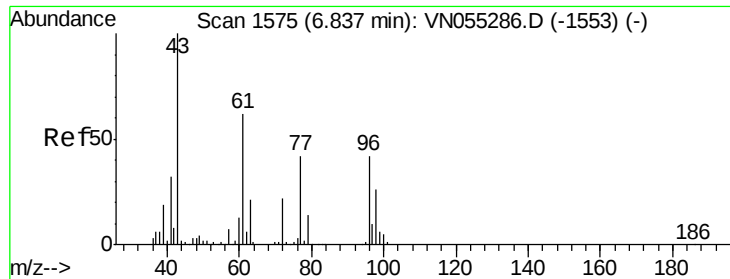
MMDadoda
 5/3/2019 1:08:06 PM



#24
 1,1-Dichloroethane
 Concen: 21.105 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion: 63 Resp: 173206
 Ion Ratio Lower Upper
 63 100
 98 5.6 3.0 9.0
 100 3.4 1.8 5.4





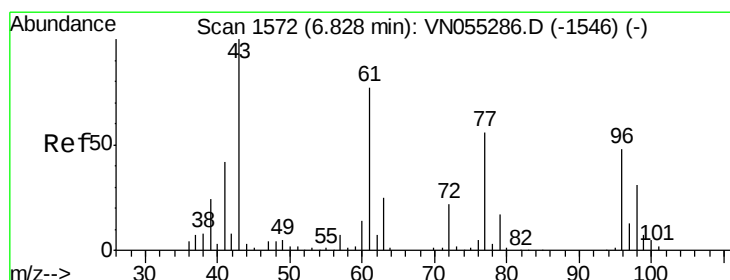
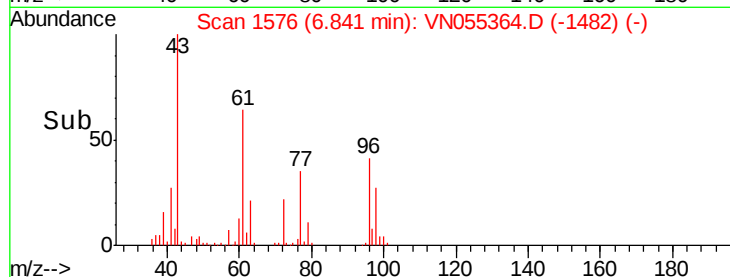
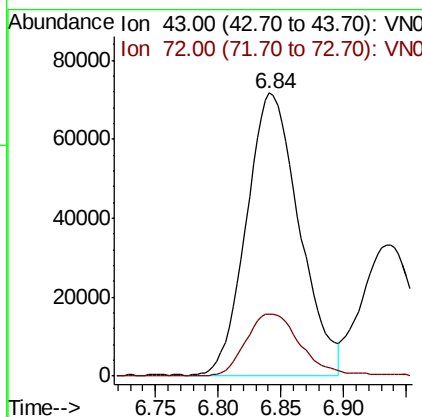
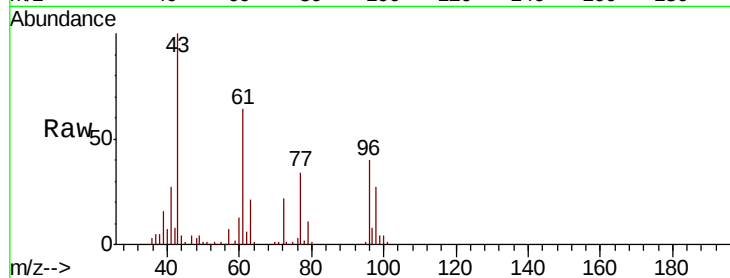
#25
2-Butanone
Concen: 106.018 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampled :
VN0502MBS02

Tgt Ion: 43 Resp: 209418
Ion Ratio Lower Upper
43 100
72 22.1 18.0 27.0

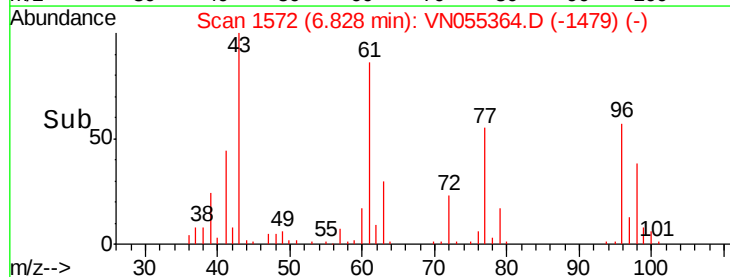
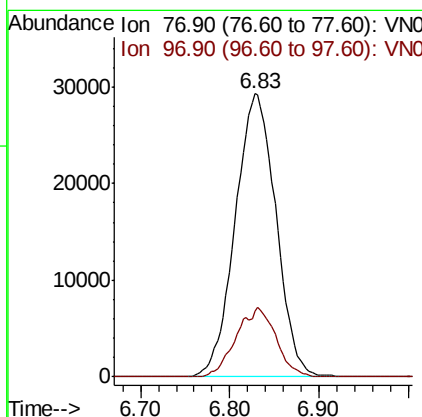
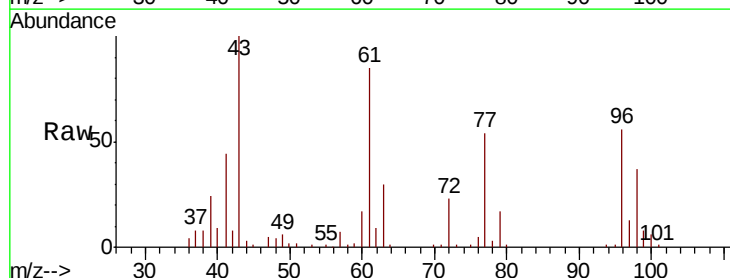
Manual Integrations
APPROVED

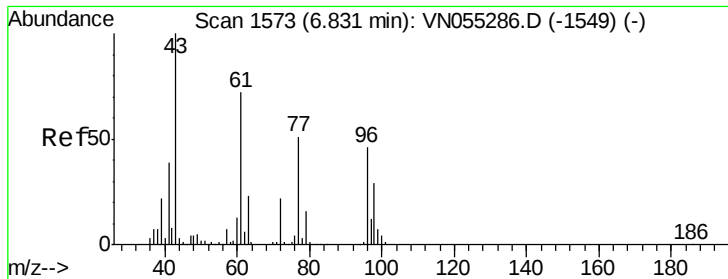
MMDadoda
5/3/2019 1:08:06 PM



#26
2,2-Dichloropropane
Concen: 16.353 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 77 Resp: 92676
Ion Ratio Lower Upper
77 100
97 24.0 11.4 34.2





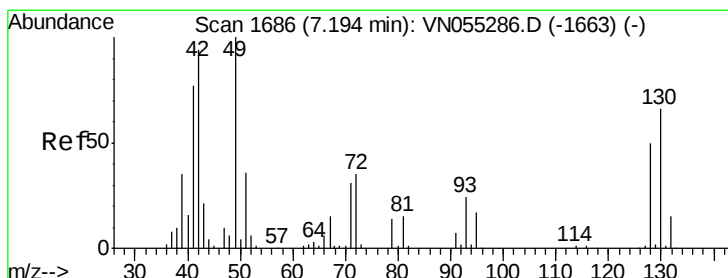
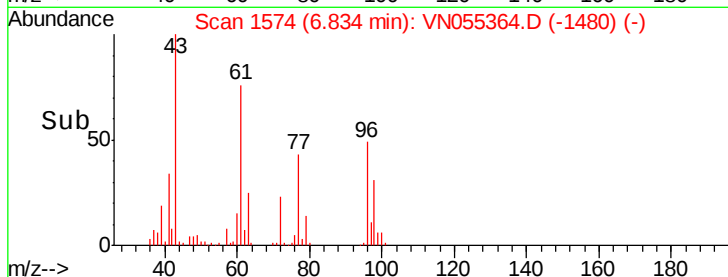
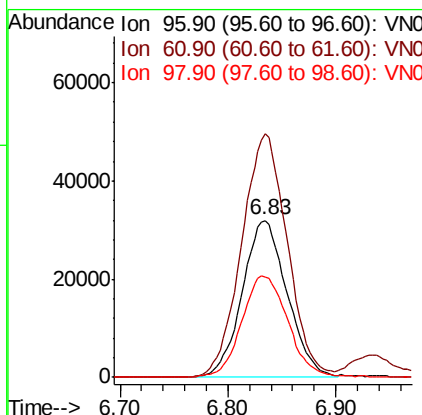
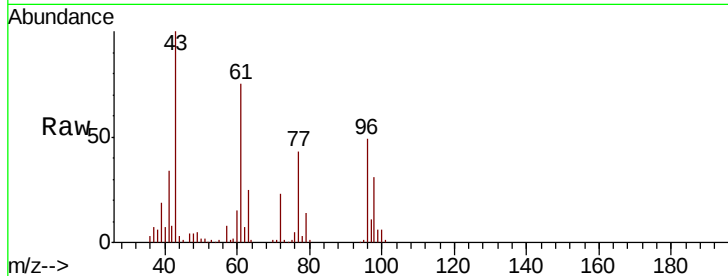
#27
 cis-1,2-Dichloroethene
 Concen: 20.479 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	92322		
61	157.8	0.0	316.2	
98	66.2	0.0	126.6	

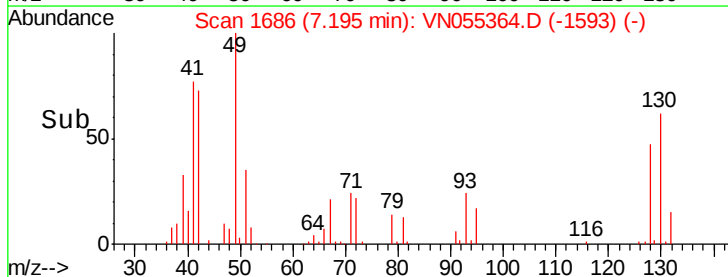
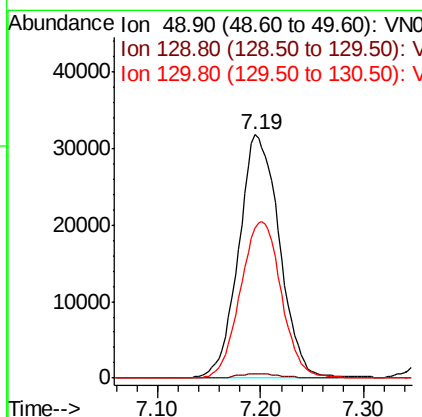
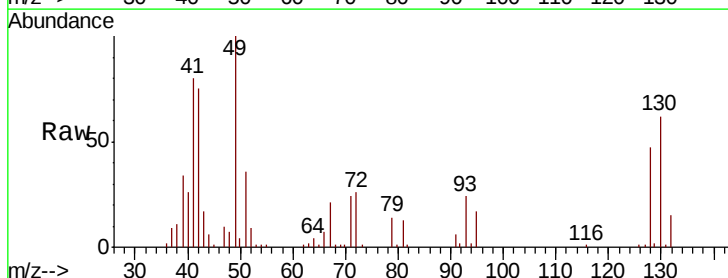
Manual Integrations
 APPROVED

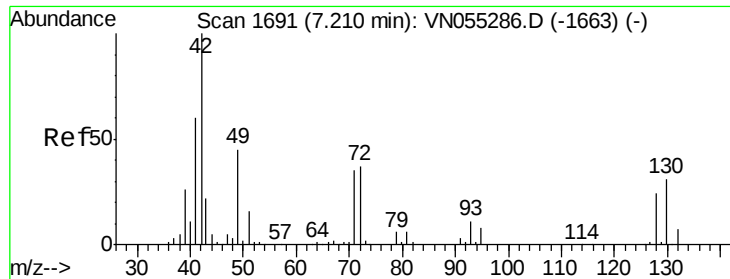
MMDadoda
 5/3/2019 1:08:06 PM



#28
 Bromochloromethane
 Concen: 21.054 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	87097		
129	1.7	0.0	2.4	
130	64.6	52.0	78.0	





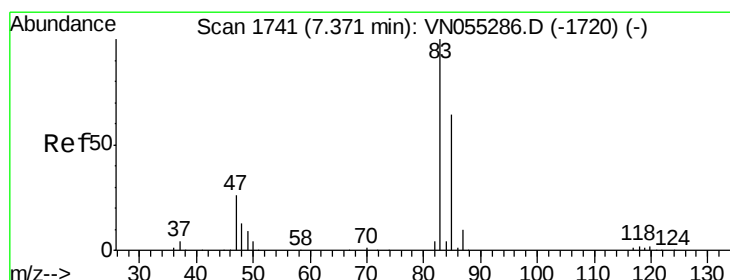
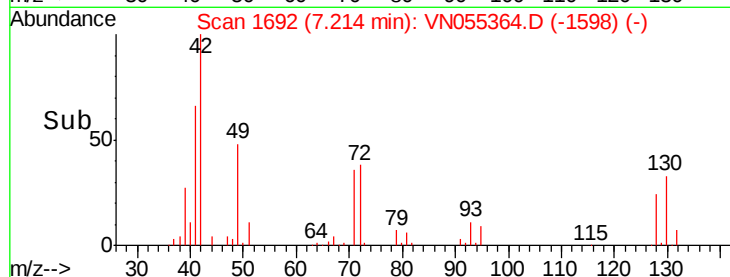
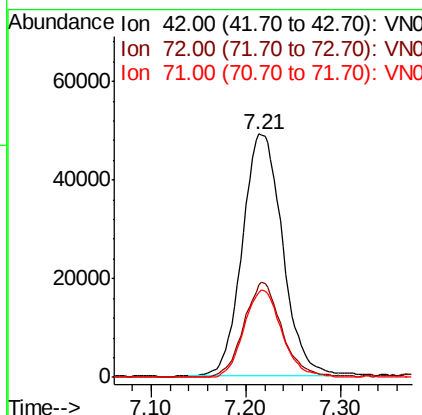
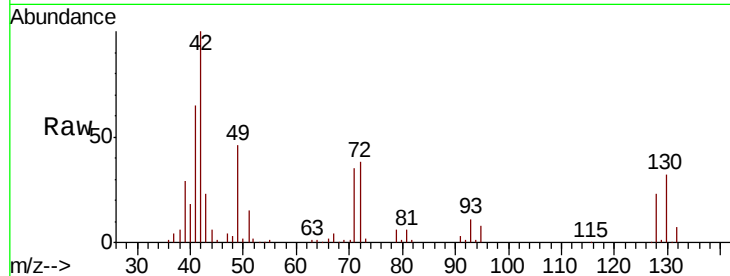
#29
Tetrahydrofuran
Concen: 114.767 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.2	29.0	43.6
71	33.9	27.1	40.7

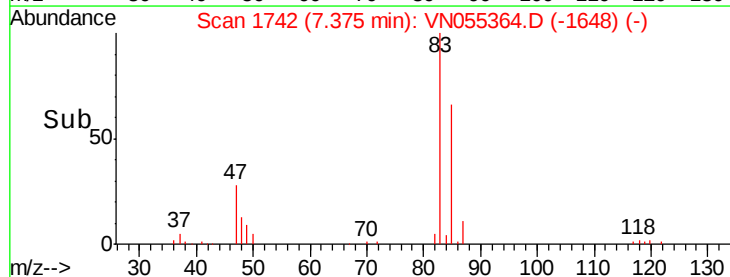
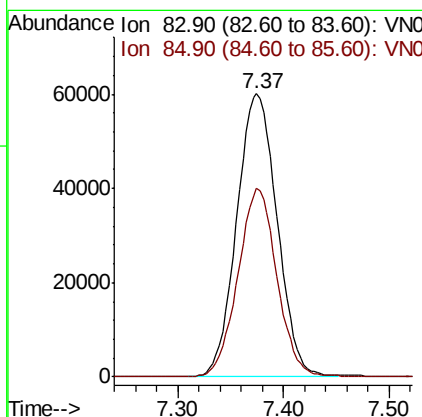
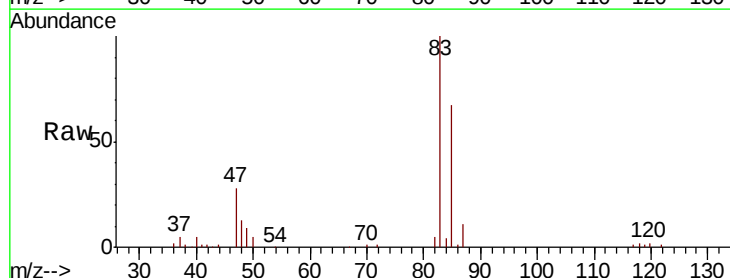
Manual Integrations
APPROVED

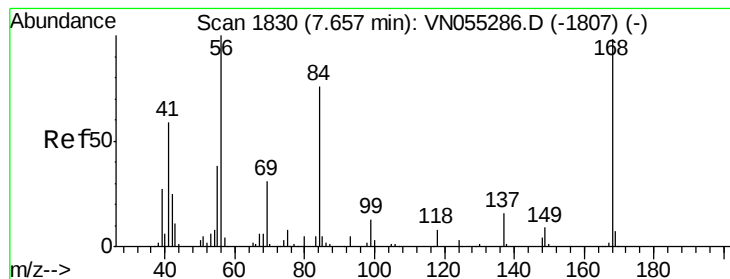
MMDadoda
5/3/2019 1:08:06 PM



#30
Chloroform
Concen: 20.546 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.4	77.2





#31

Cyclohexane

Concen: 19.415 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 56 Resp: 151387

Ion Ratio Lower Upper

56 100

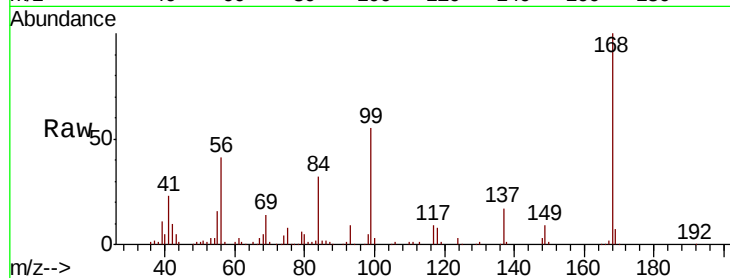
69 35.3 25.2 37.8

84 77.4 61.1 91.7

Manual Integrations
APPROVED

MMDadoda

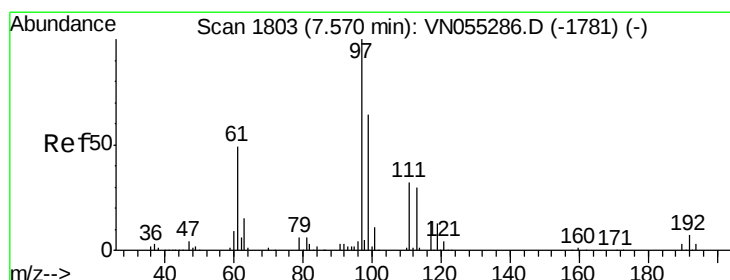
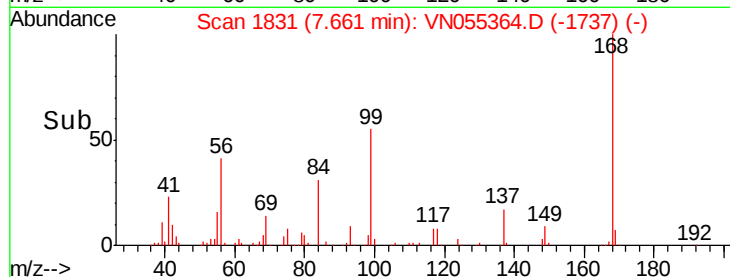
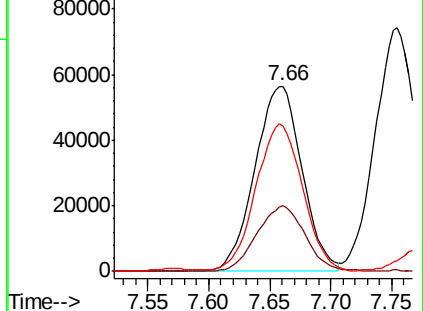
5/3/2019 1:08:06 PM



Abundance Ion 56.00 (55.70 to 56.70): VN055364.D (-1737) (-)

Ion 69.00 (68.70 to 69.70): VN055364.D (-1737) (-)

Ion 84.00 (83.70 to 84.70): VN055364.D (-1737) (-)



#32

1,1,1-Trichloroethane

Concen: 20.752 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

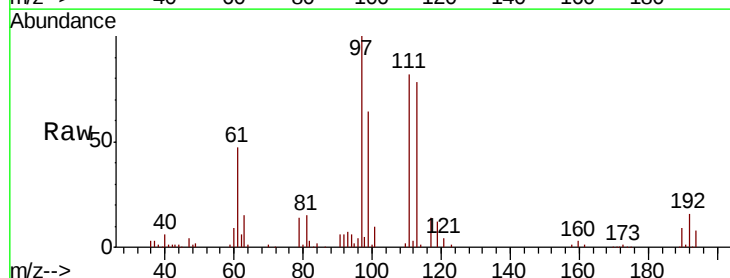
Tgt Ion: 97 Resp: 131031

Ion Ratio Lower Upper

97 100

99 64.4 51.8 77.8

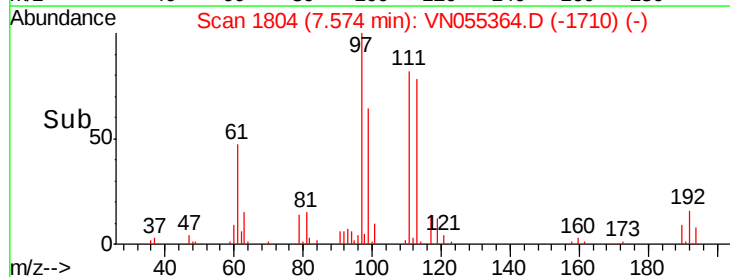
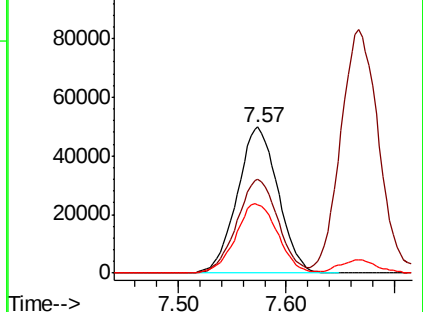
61 48.8 39.0 58.6



Abundance Ion 96.90 (96.60 to 97.60): VN055364.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN055364.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN055364.D (-1710) (-)





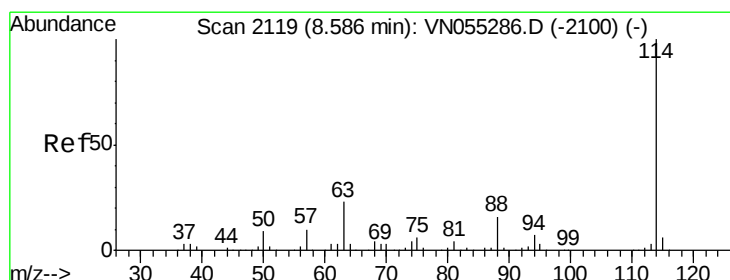
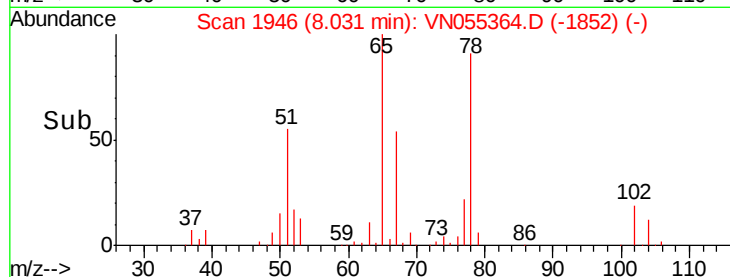
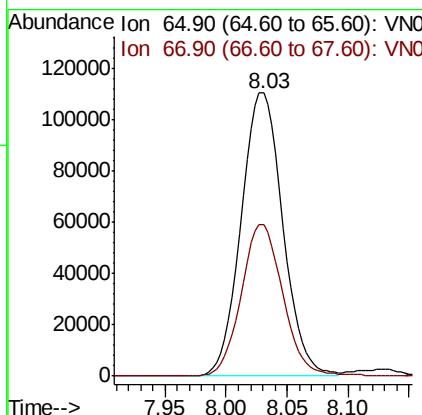
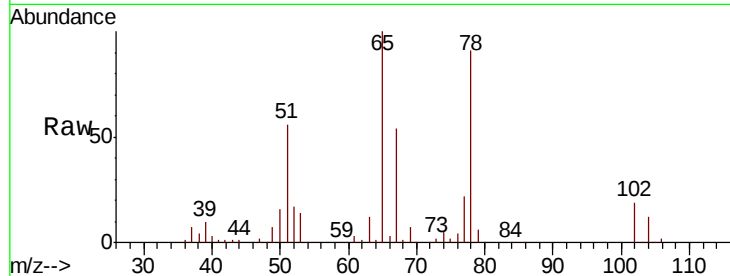
#33
 1,2-Dichloroethane-d4
 Concen: 52.720 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion: 65 Resp: 261337
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.8

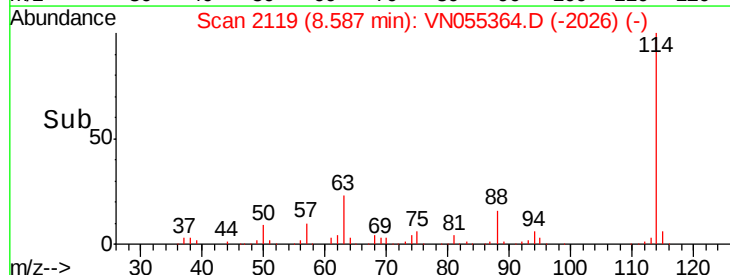
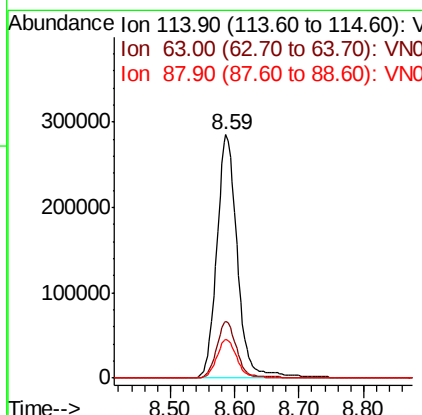
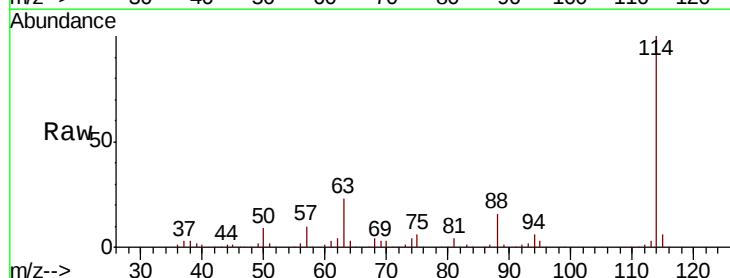
Manual Integrations
 APPROVED

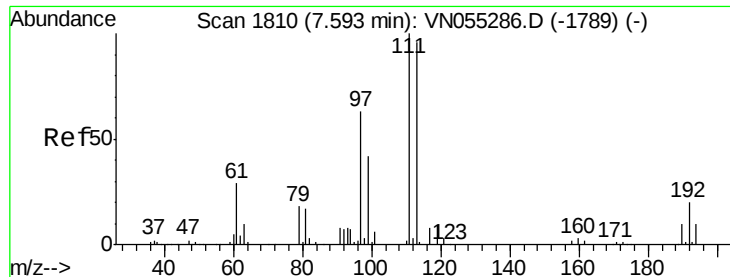
MMDadoda
 5/3/2019 1:08:06 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion: 114 Resp: 632638
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.2
 88 15.9 0.0 31.6





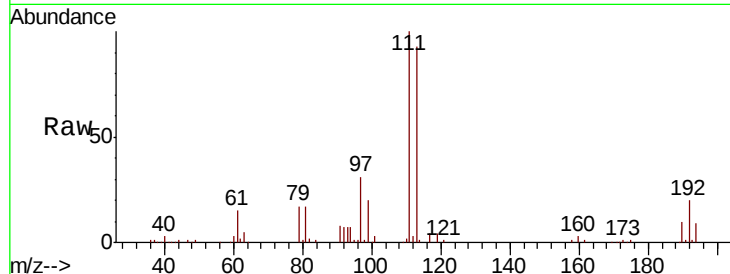
#35
 Dibromofluoromethane
 Concen: 47.961 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	199155		
111	106.8	82.3	123.5	
192	21.5	17.0	25.6	

Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:06 PM

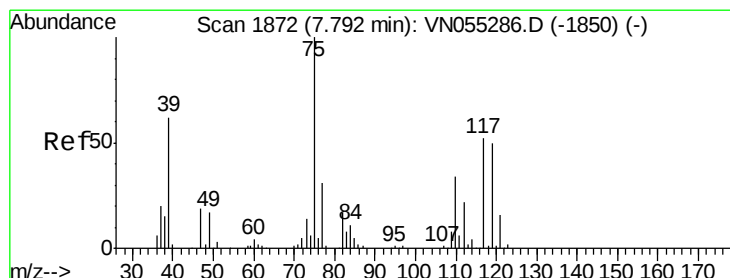
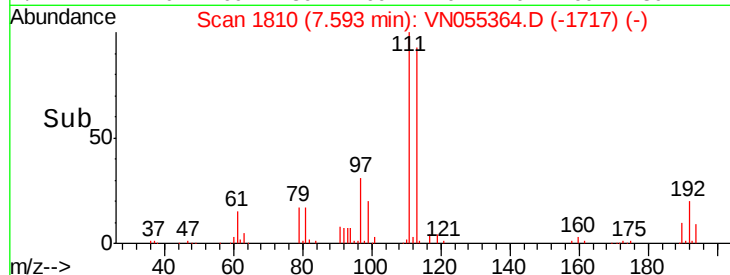
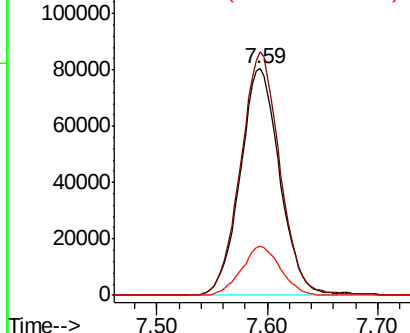


Abundance

Ion 112.80 (112.50 to 113.50): V

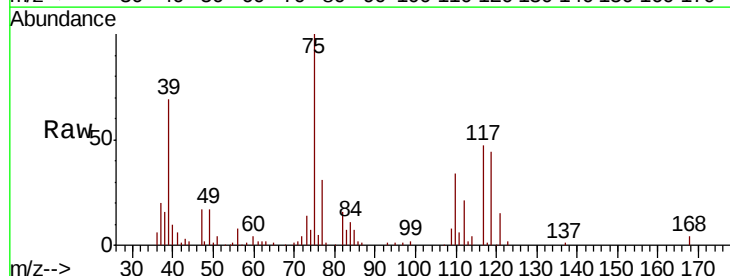
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 18.501 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	112110		
110	33.9	16.8	50.4	
77	31.4	25.0	37.6	

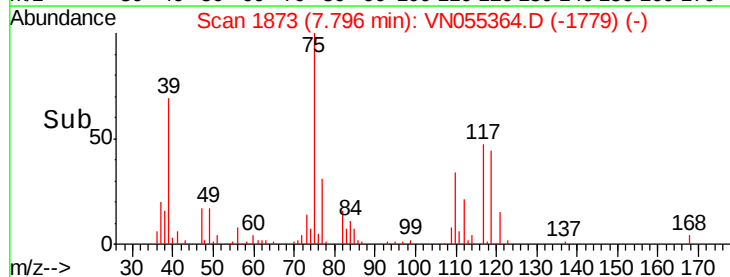
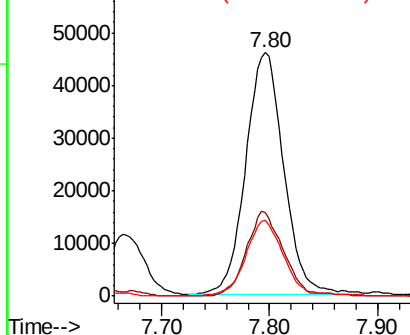


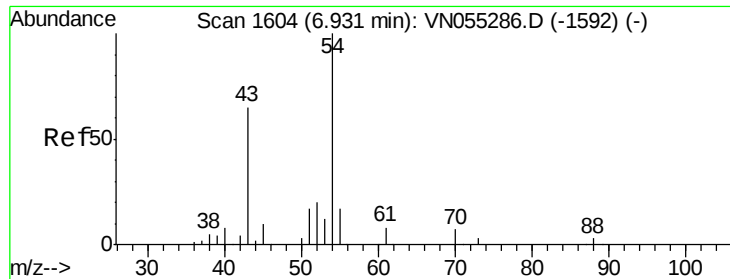
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





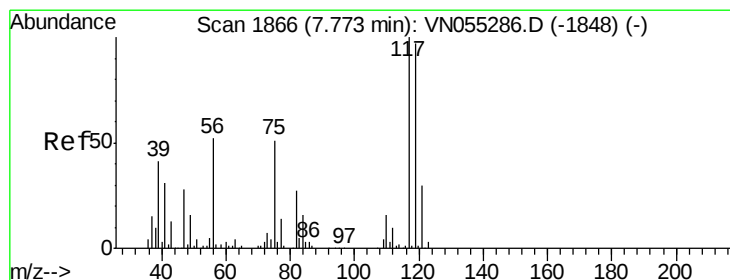
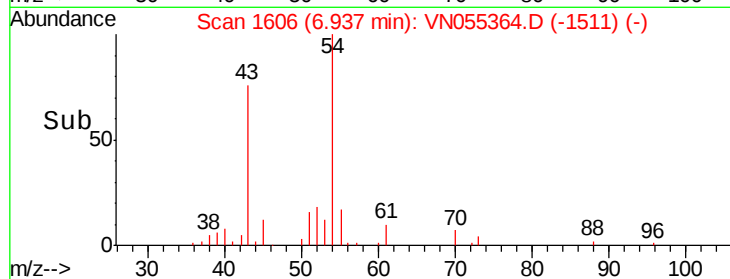
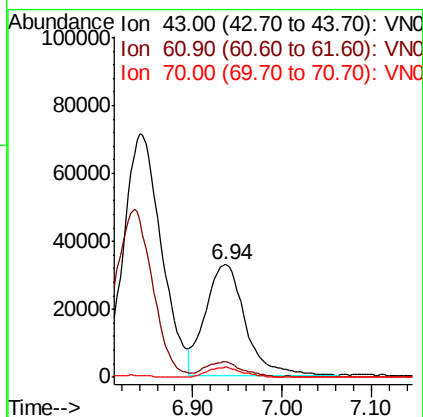
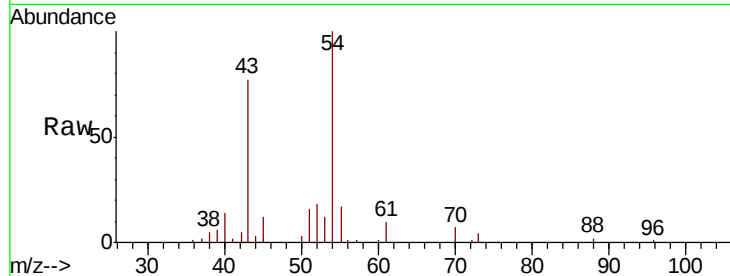
#37
Ethyl Acetate
Concen: 22.020 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampled :
VN0502MBS02

Tgt Ion: 43 Resp: 102264
Ion Ratio Lower Upper
43 100
61 13.2 10.4 15.6
70 8.1 6.6 10.0

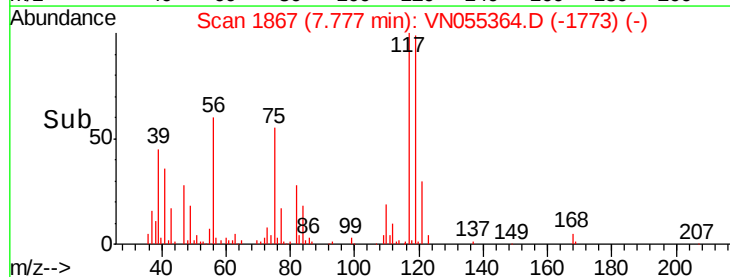
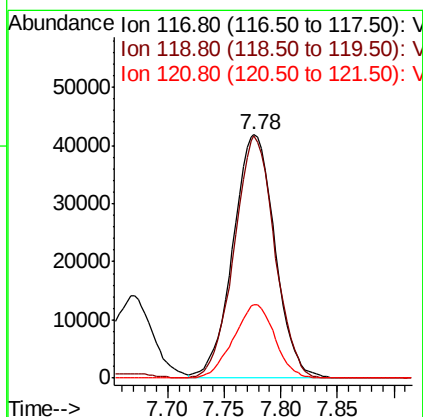
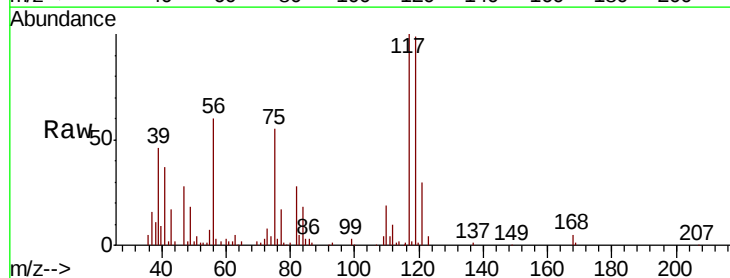
Manual Integrations
APPROVED

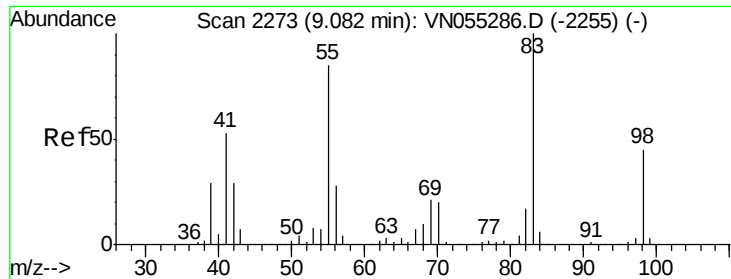
MMDadoda
5/3/2019 1:08:06 PM



#38
Carbon Tetrachloride
Concen: 18.489 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 117 Resp: 108074
Ion Ratio Lower Upper
117 100
119 99.0 77.0 115.6
121 30.3 23.8 35.8





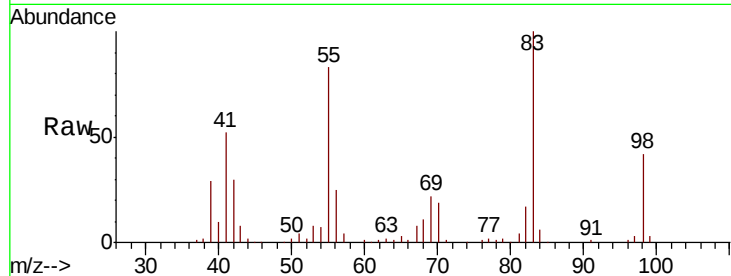
#39
Methylcyclohexane
Concen: 19.136 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

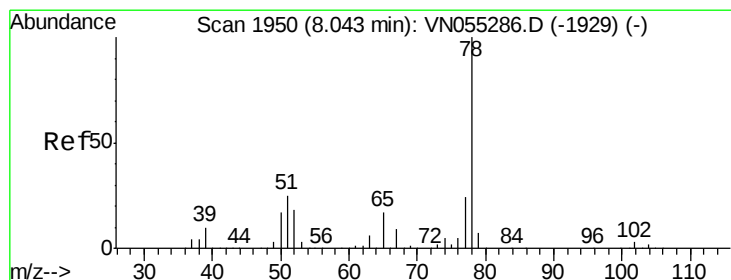
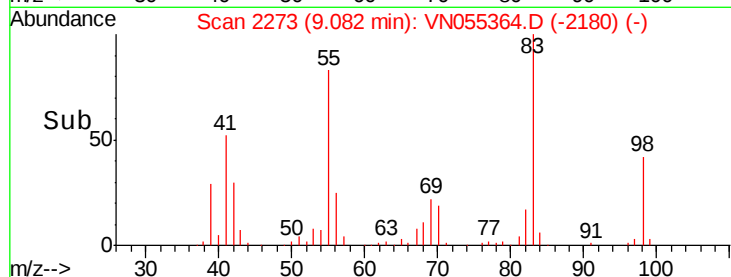
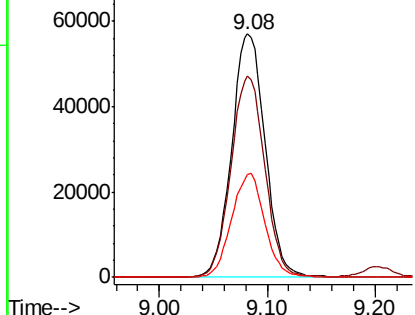
Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.7	67.8	101.6
98	42.3	36.2	54.4

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

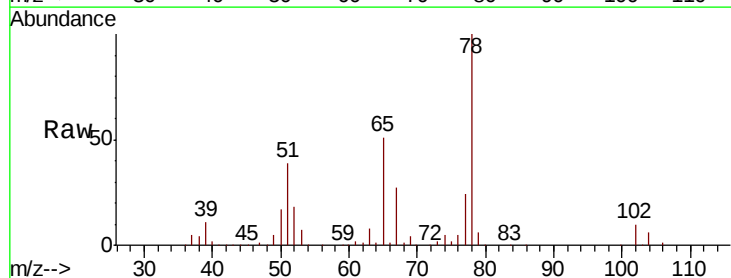


Abundance Ion 83.00 (82.70 to 83.70): VN055286.D (-2255) (-)
Ion 55.00 (54.70 to 55.70): VN055286.D (-2255) (-)
Ion 98.00 (97.70 to 98.70): VN055286.D (-2255) (-)

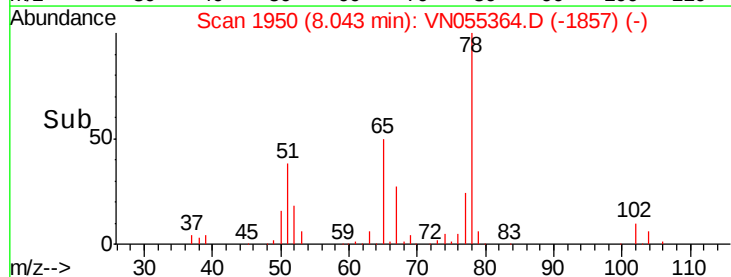
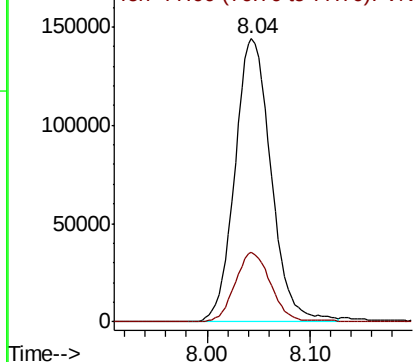


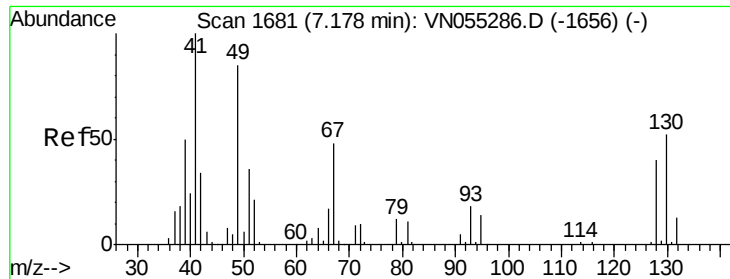
#40
Benzene
Concen: 19.697 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.0	28.6



Abundance Ion 78.00 (77.70 to 78.70): VN055286.D (-1929) (-)
Ion 77.00 (76.70 to 77.70): VN055286.D (-1929) (-)





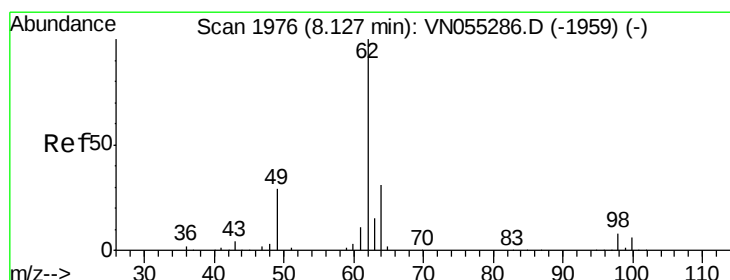
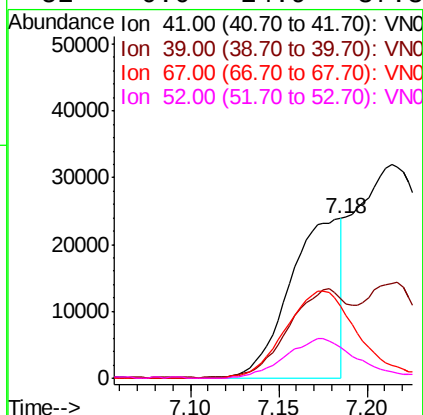
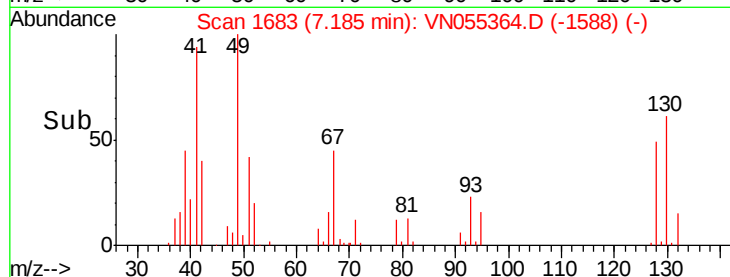
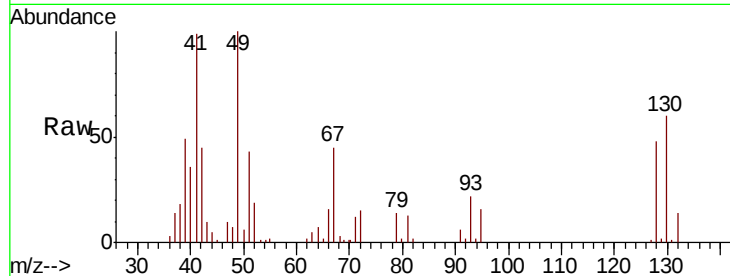
#41
Methacrylonitrile
Concen: 19.714 ug/l m
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.5	72.7#
67	0.0	54.9	82.3#
52	0.0	24.9	37.3#

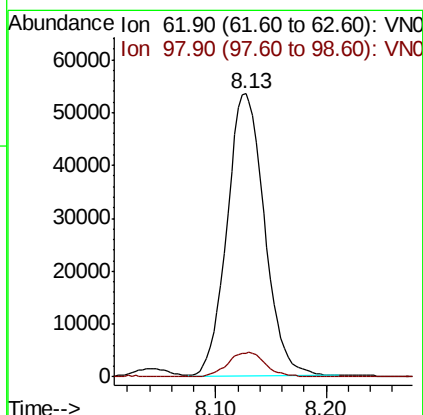
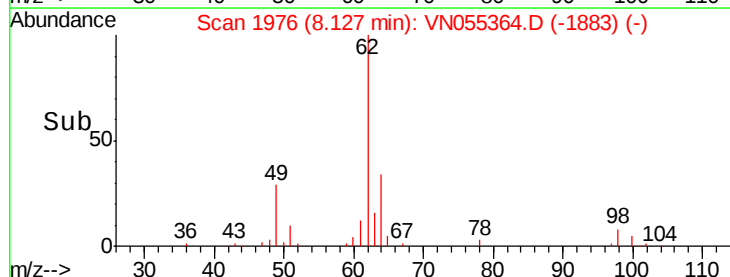
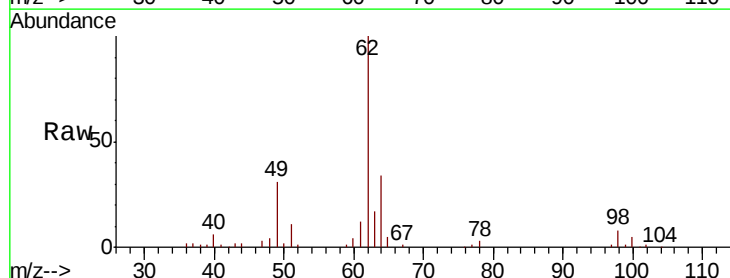
Manual Integrations
APPROVED

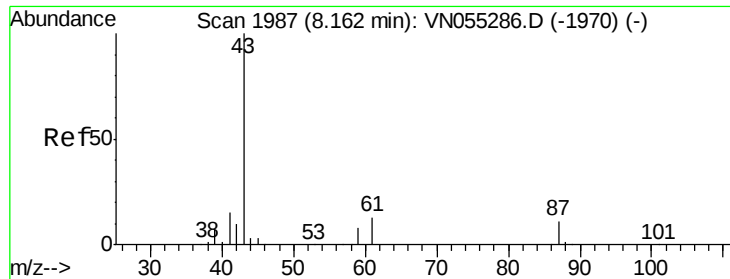
MMDadoda
5/3/2019 1:08:06 PM



#42
1,2-Dichloroethane
Concen: 19.864 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	16.4





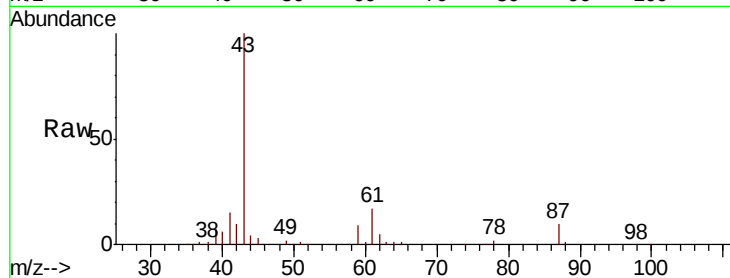
#43
Isopropyl Acetate
Concen: 22.923 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

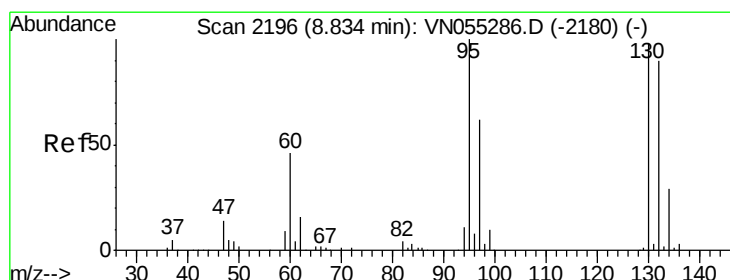
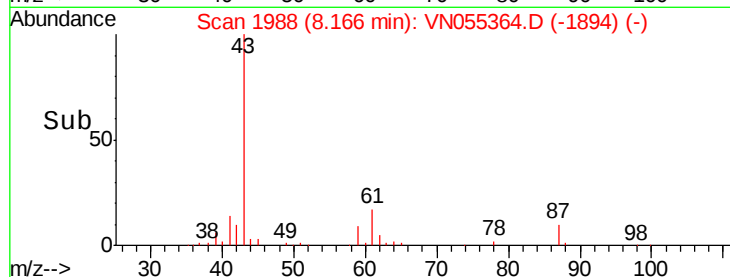
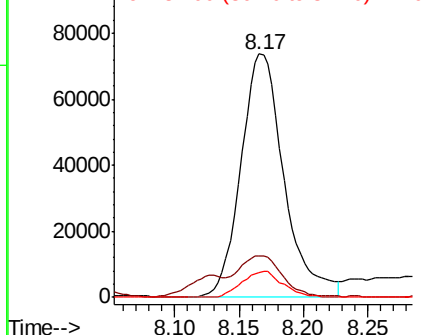
Tgt Ion	Ratio	Lower	Upper
43	100		
61	16.3	20.8	31.2#
87	10.1	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

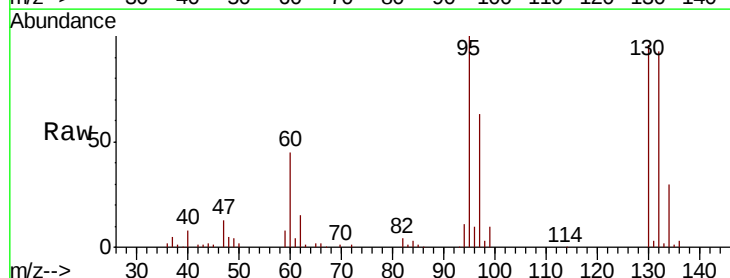


Abundance Ion 43.00 (42.70 to 43.70): VN055286.D (-1970) (-)

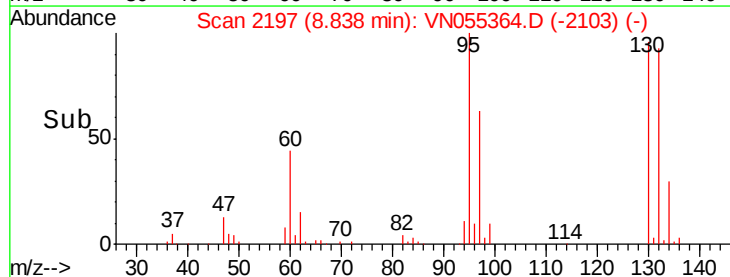
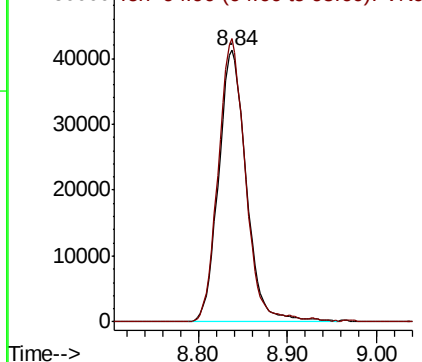


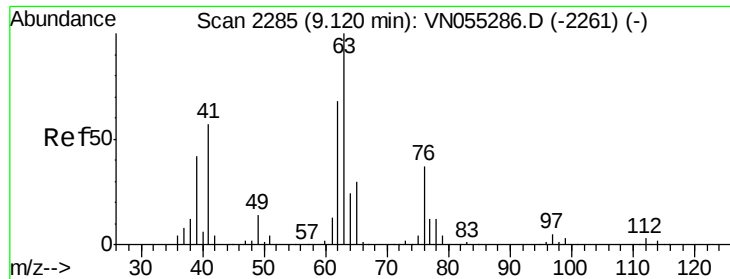
#44
Trichloroethene
Concen: 19.493 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.1	0.0	203.4



Abundance Ion 129.80 (129.50 to 130.50): VN055286.D (-2180) (-)





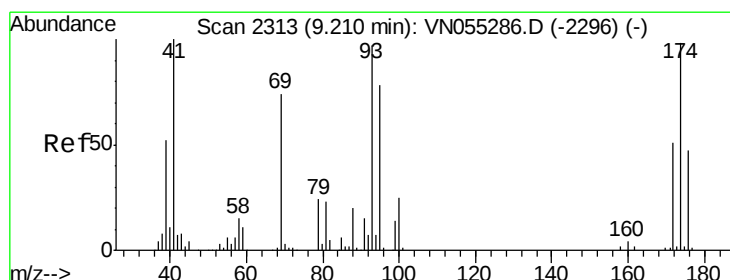
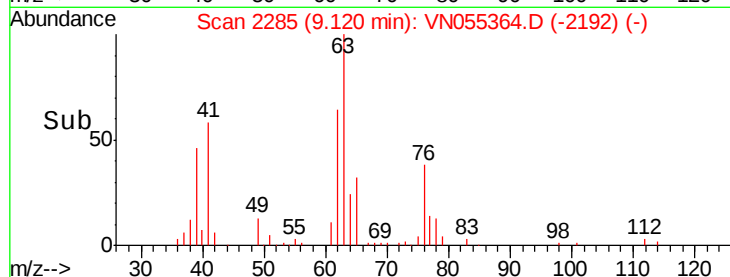
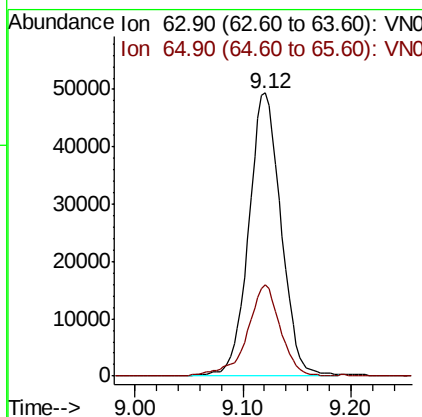
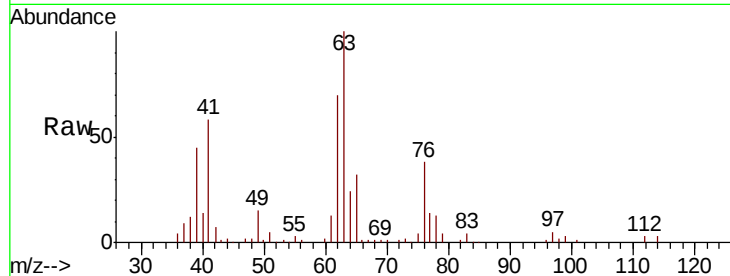
#45
 1,2-Dichloropropane
 Concen: 19.898 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampled :
 VN0502MBS02

Tgt Ion: 63 Resp: 102520
 Ion Ratio Lower Upper
 63 100
 65 31.9 23.9 35.9

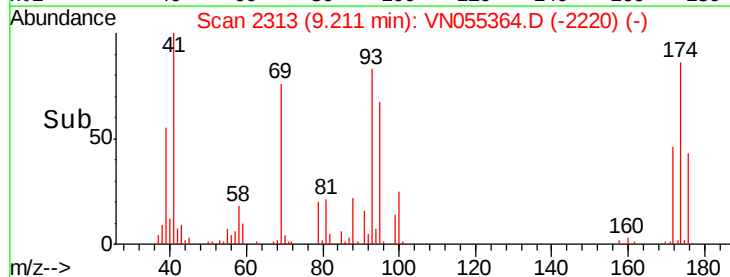
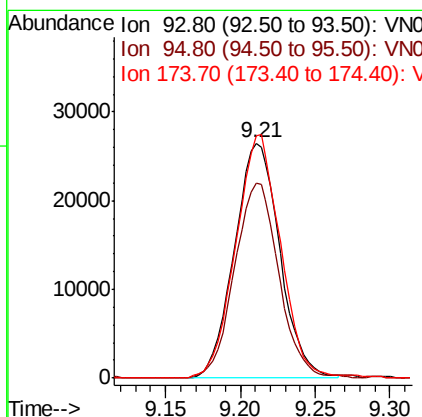
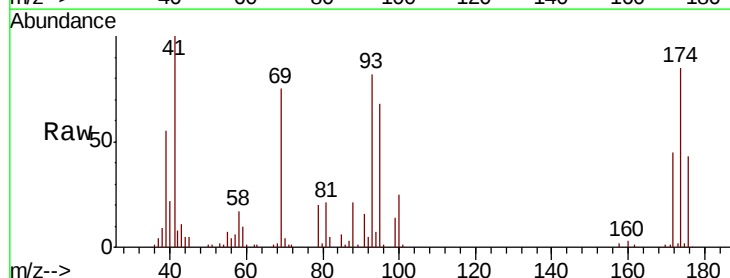
Manual Integrations
 APPROVED

MMDadoda
 5/3/2019 1:08:06 PM



#46
 Dibromomethane
 Concen: 19.866 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion: 93 Resp: 55946
 Ion Ratio Lower Upper
 93 100
 95 81.1 65.7 98.5
 174 102.4 81.5 122.3





#47

Bromodichloromethane

Concen: 19.764 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

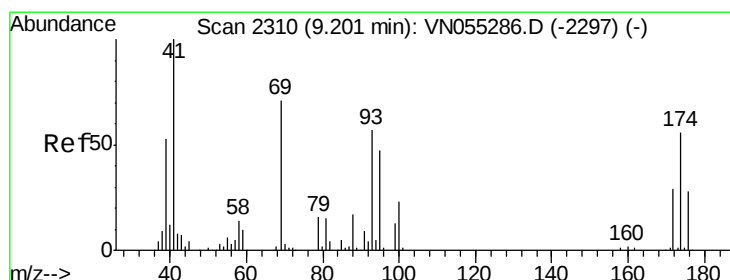
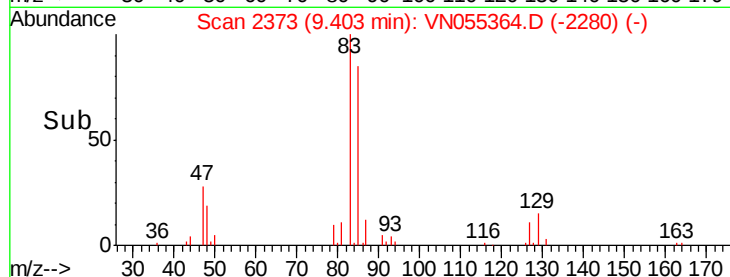
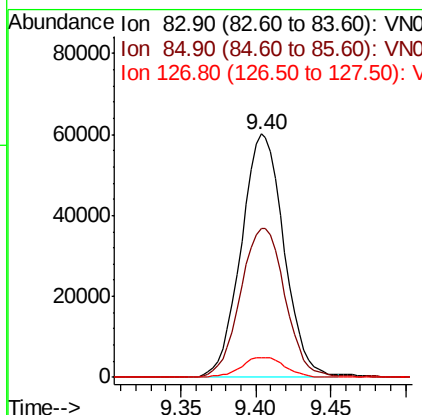
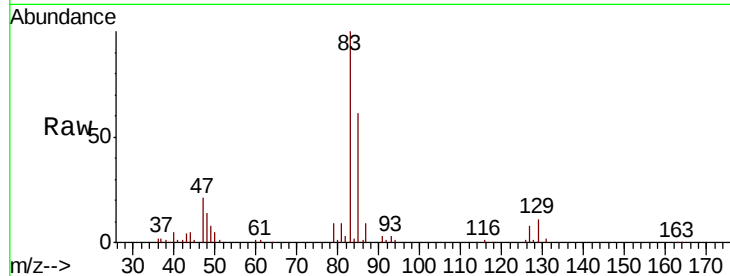
ClientSampleId :

VN0502MBS02

Tgt Ion:	83	Resp:	119408
Ion Ratio	Lower	Upper	
83	100		
85	61.1	50.1	75.1
127	8.0	6.7	10.1

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM



#48

Methyl methacrylate

Concen: 21.259 ug/l

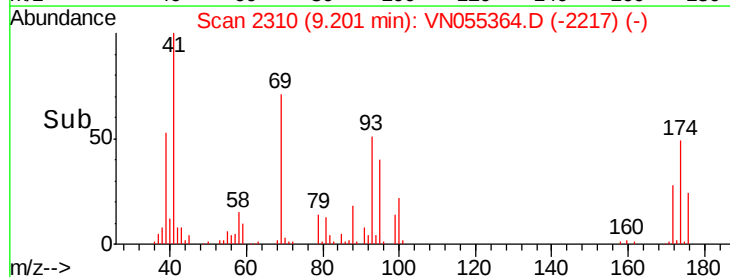
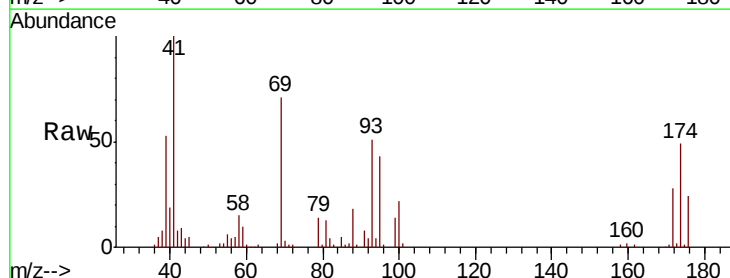
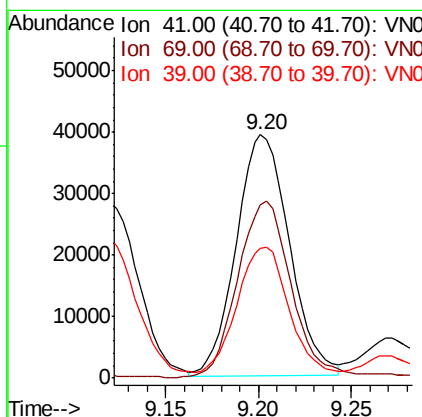
RT: 9.20 min Scan# 2310

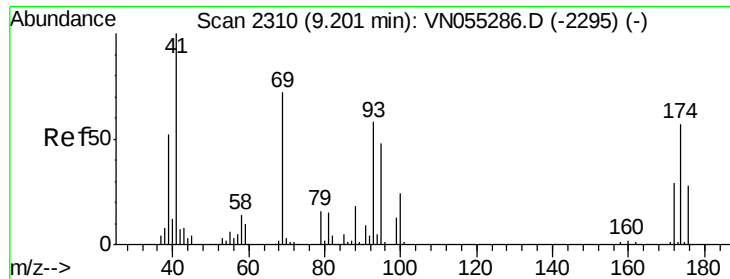
Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Tgt Ion:	41	Resp:	78003
Ion Ratio	Lower	Upper	
41	100		
69	74.4	58.6	87.8
39	53.5	43.8	65.6





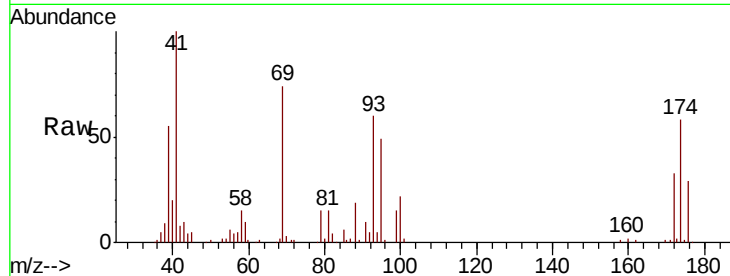
#49
1,4-Dioxane
Concen: 424.848 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	43.5	33.3	49.9
58	82.9	62.7	94.1

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

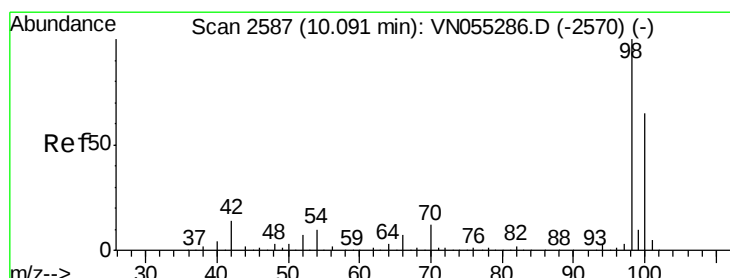
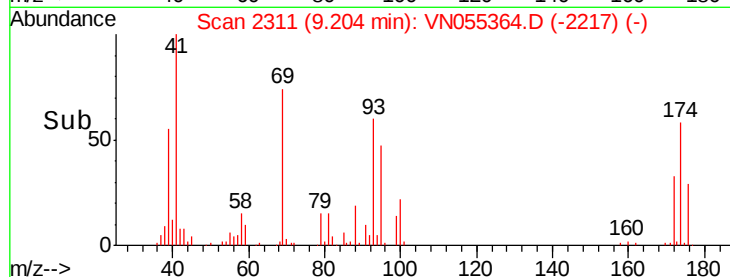
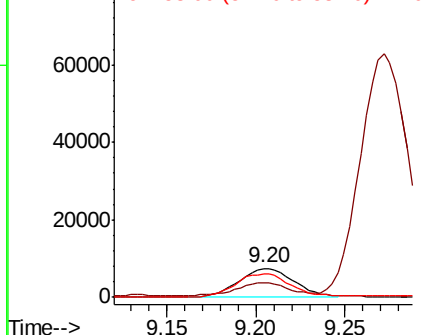


Abundance

Ion 88.00 (87.70 to 88.70): VN055286.D (-2295) (-)

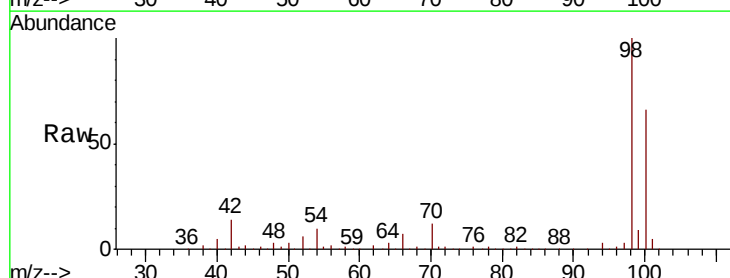
Ion 43.00 (42.70 to 43.70): VN055286.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN055286.D (-2295) (-)



#50
Toluene-d8
Concen: 48.859 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

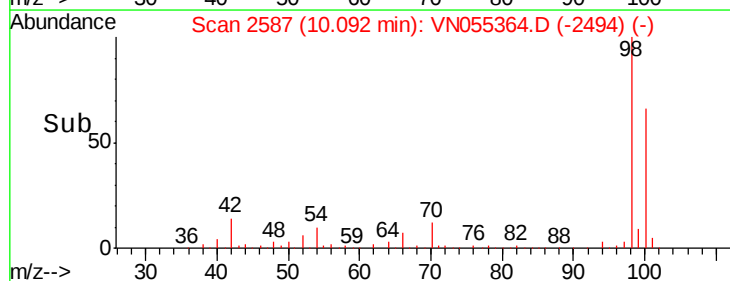
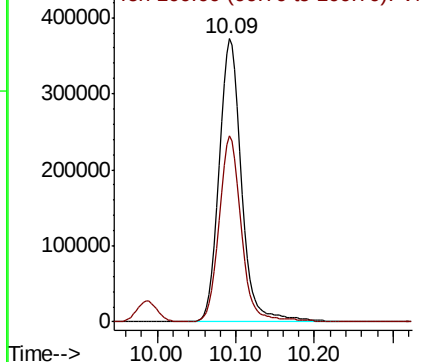
Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5



Abundance

Ion 98.00 (97.70 to 98.70): VN055286.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055286.D (-2570) (-)





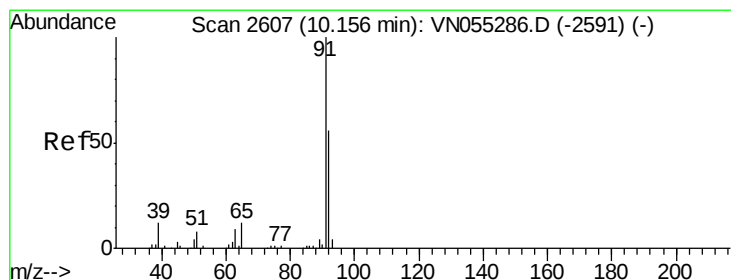
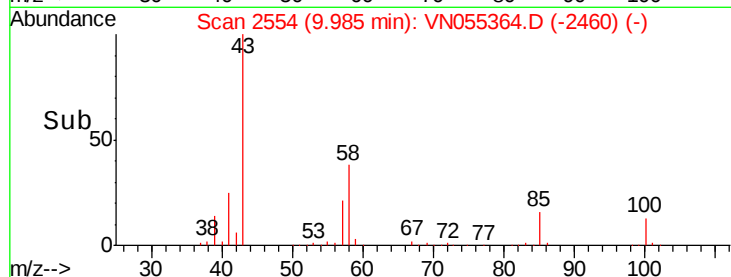
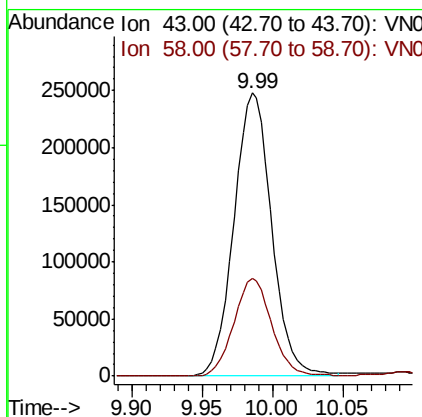
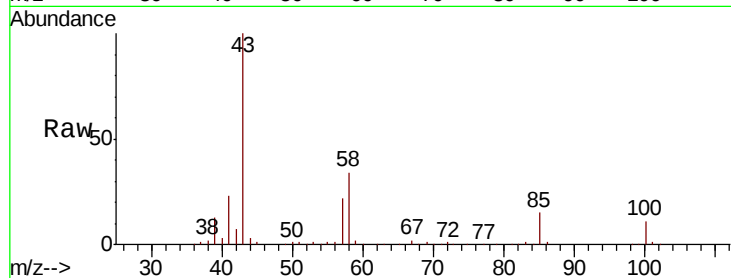
#51
4-Methyl-2-Pentanone
Concen: 110.258 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 43 Resp: 463316
Ion Ratio Lower Upper
43 100
58 34.8 28.5 42.7

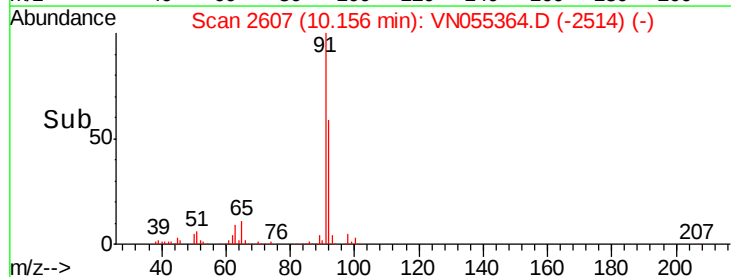
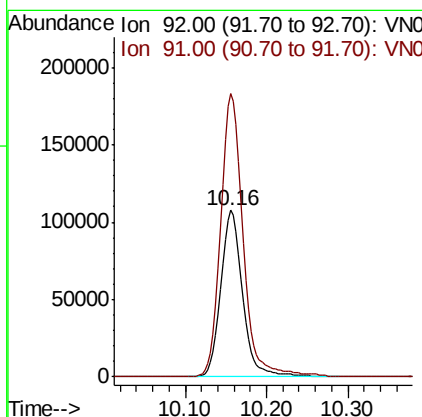
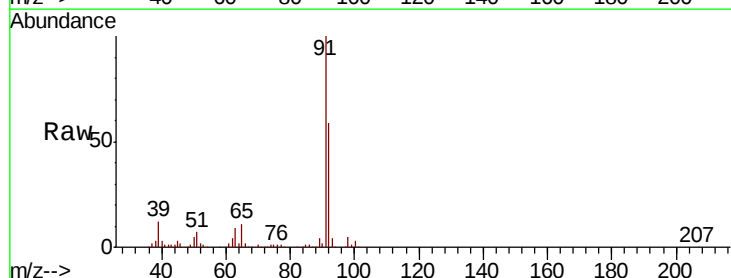
Manual Integrations
APPROVED

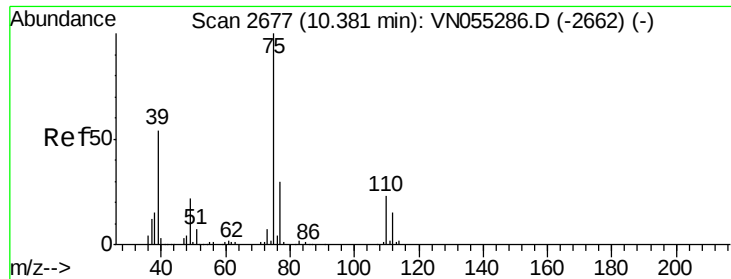
MMDadoda
5/3/2019 1:08:06 PM



#52
Toluene
Concen: 20.052 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 92 Resp: 205521
Ion Ratio Lower Upper
92 100
91 174.3 140.1 210.1





#53

t-1,3-Dichloropropene

Concen: 19.540 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 75 Resp: 102484

Ion Ratio Lower Upper

75 100

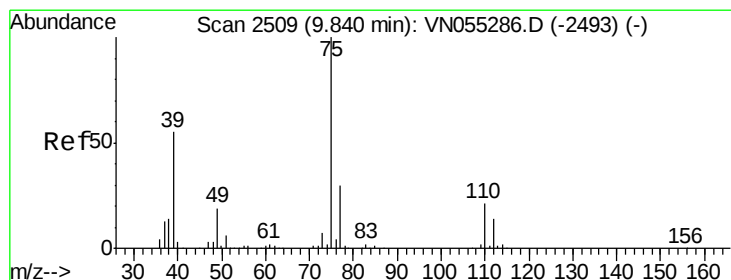
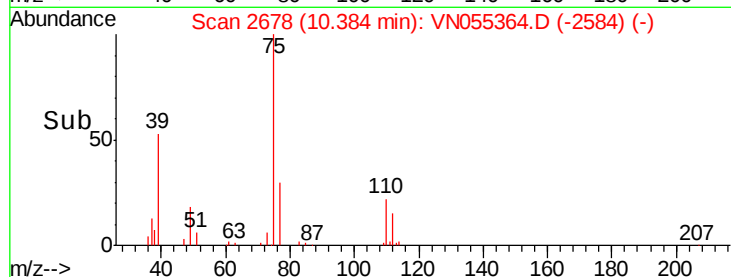
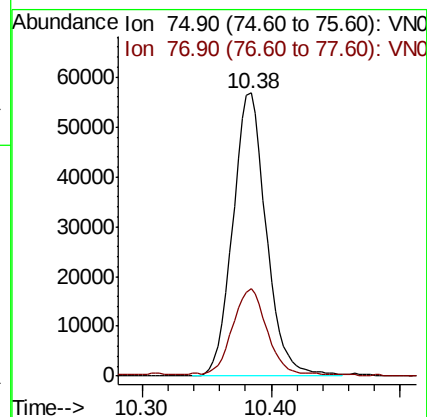
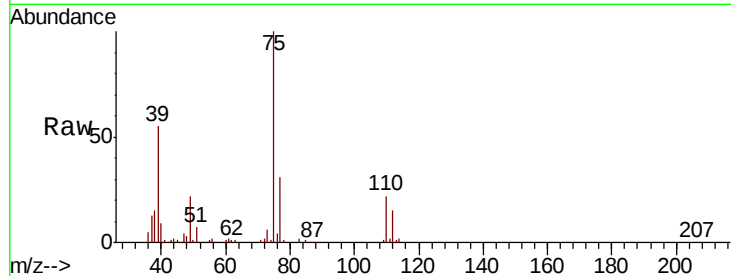
77 30.3 24.4 36.6

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



#54

cis-1,3-Dichloropropene

Concen: 19.730 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

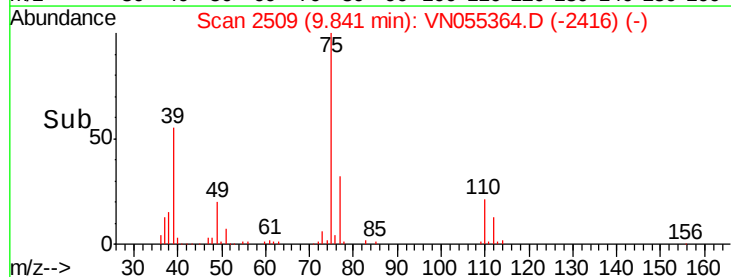
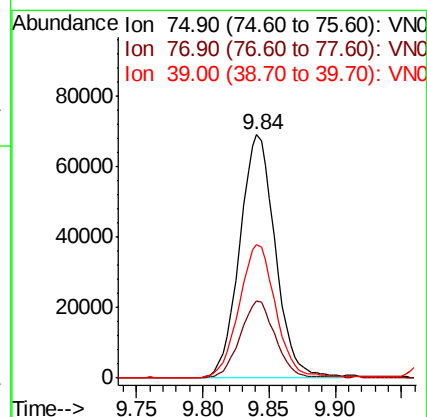
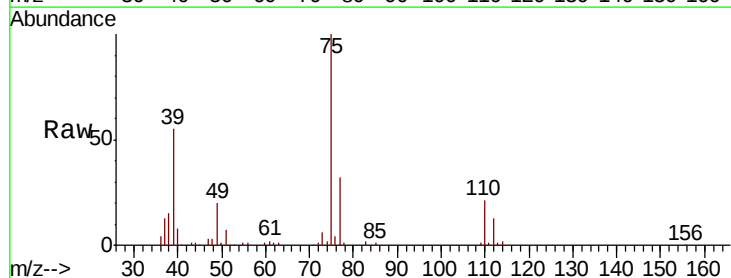
Tgt Ion: 75 Resp: 129015

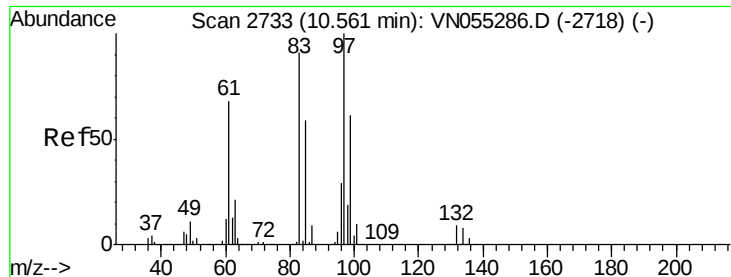
Ion Ratio Lower Upper

75 100

77 31.8 24.2 36.2

39 55.0 44.2 66.2





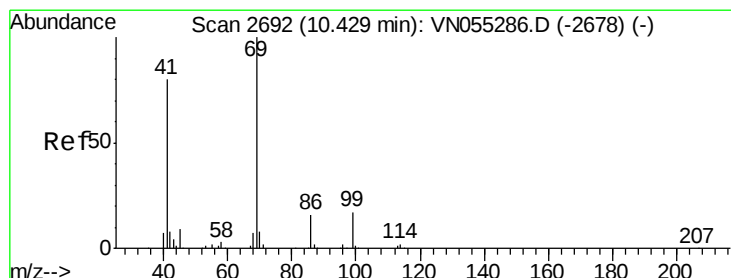
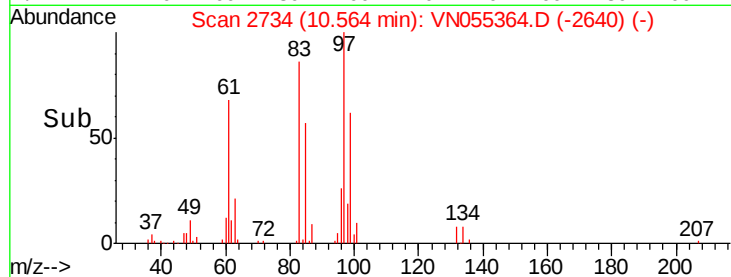
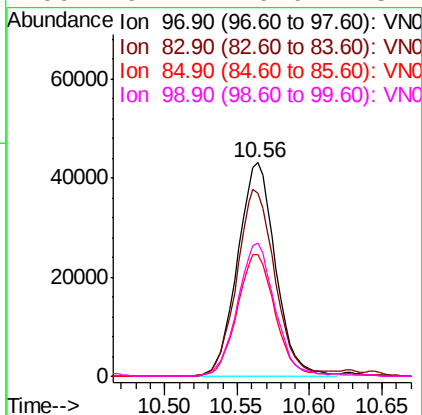
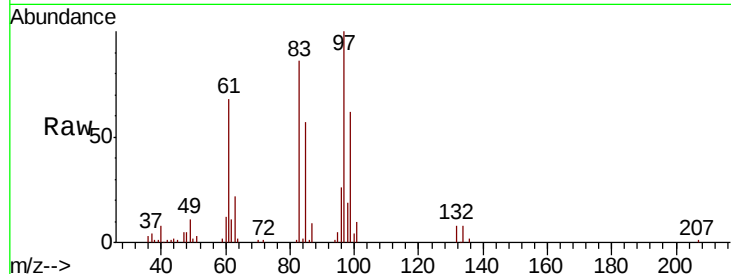
#55
 1,1,2-Trichloroethane
 Concen: 20.590 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion:	97	Resp:	78366
Ion	Ratio	Lower	Upper
97	100		
83	85.5	72.8	109.2
85	56.8	47.0	70.6
99	62.1	49.0	73.4

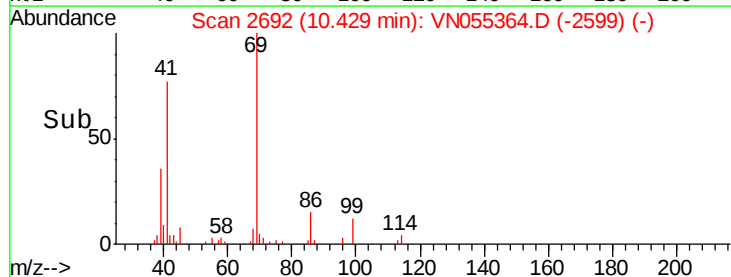
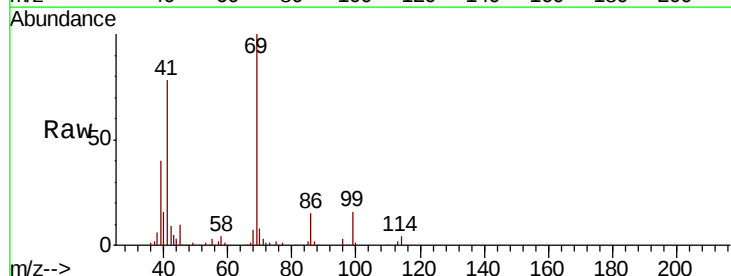
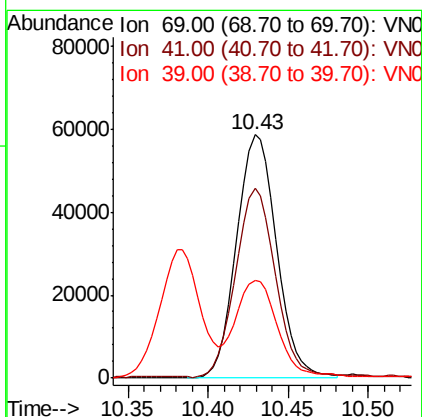
Manual Integrations
 APPROVED

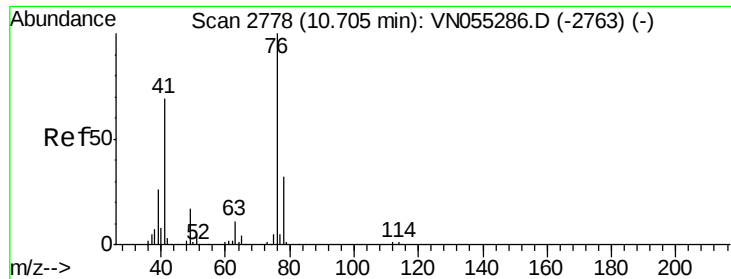
MMDadoda
 5/3/2019 1:08:06 PM



#56
 Ethyl methacrylate
 Concen: 21.464 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion:	69	Resp:	100551
Ion	Ratio	Lower	Upper
69	100		
41	76.9	62.7	94.1
39	41.6	32.0	48.0





#57

1,3-Dichloropropane

Concen: 20.560 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 76 Resp: 137280

Ion Ratio Lower Upper

76 100

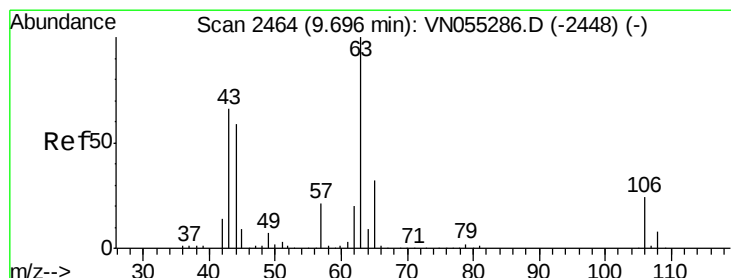
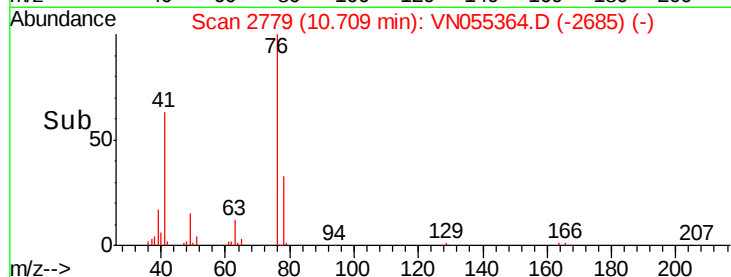
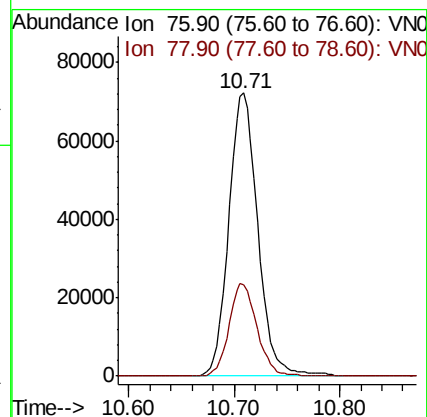
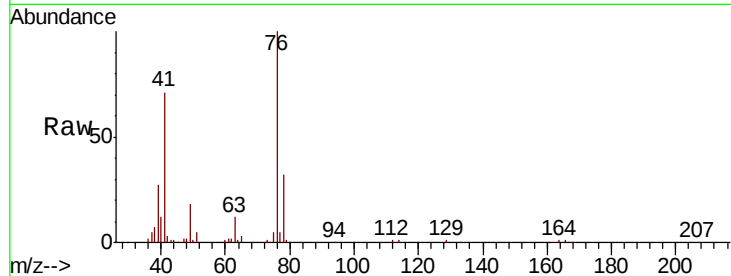
78 31.5 25.6 38.4

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



#58

2-Chloroethyl Vinyl ether

Concen: 89.591 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055364.D

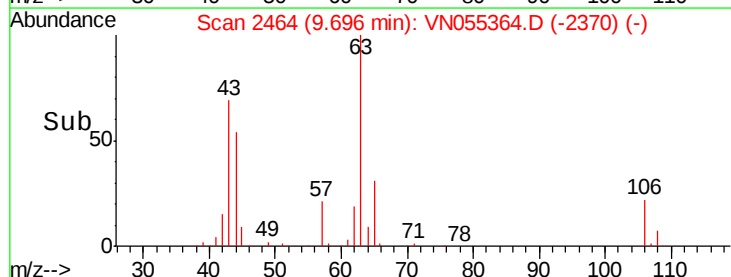
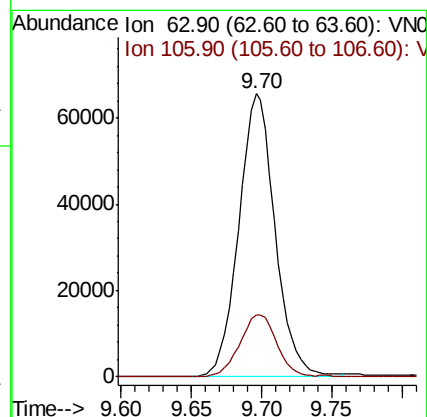
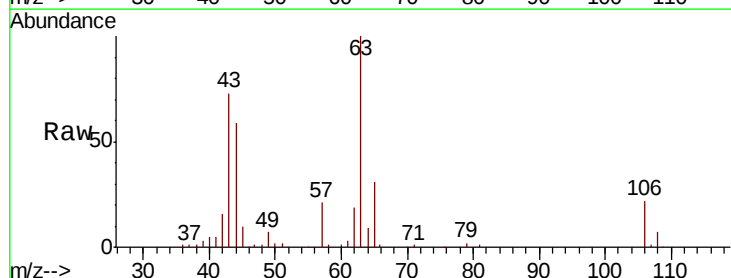
Acq: 2 May 2019 22:12

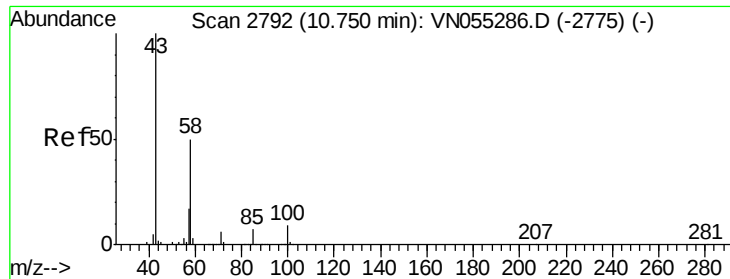
Tgt Ion: 63 Resp: 118079

Ion Ratio Lower Upper

63 100

106 22.4 19.0 28.4





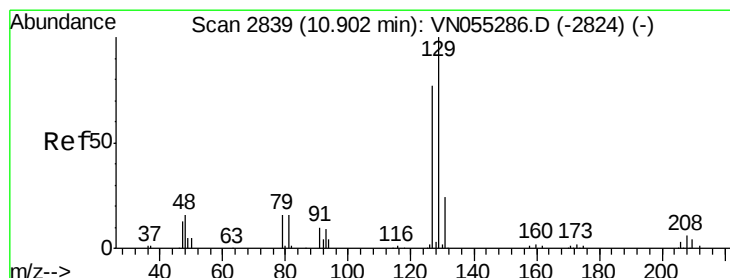
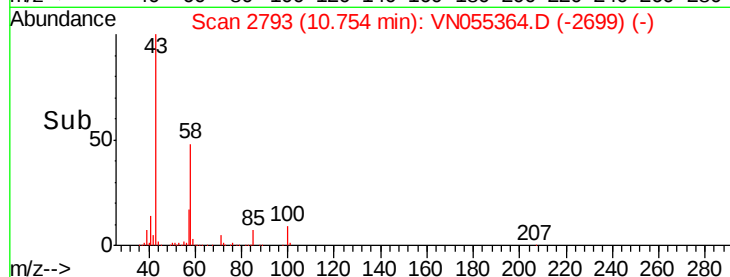
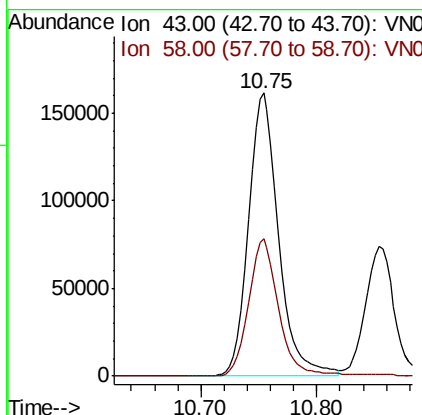
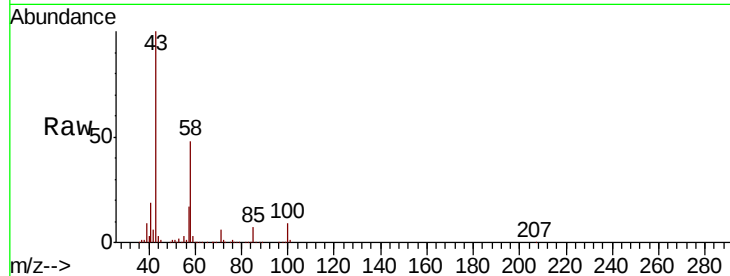
#59
2-Hexanone
Concen: 110.908 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 43 Resp: 291598
Ion Ratio Lower Upper
43 100
58 48.7 24.9 74.6

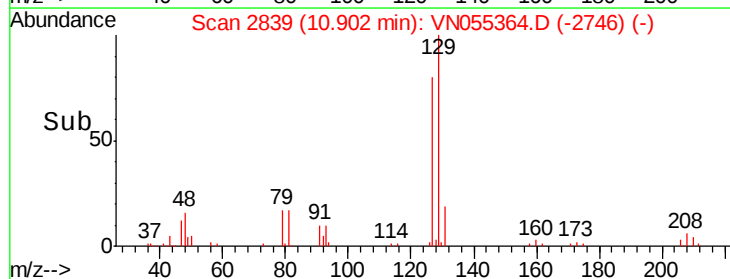
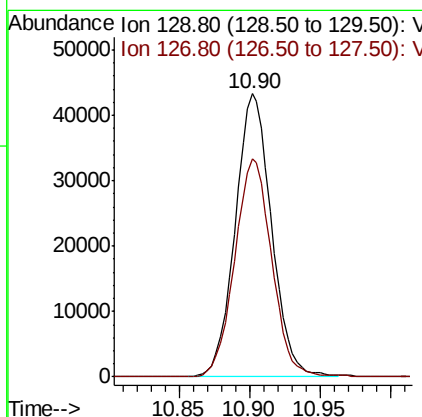
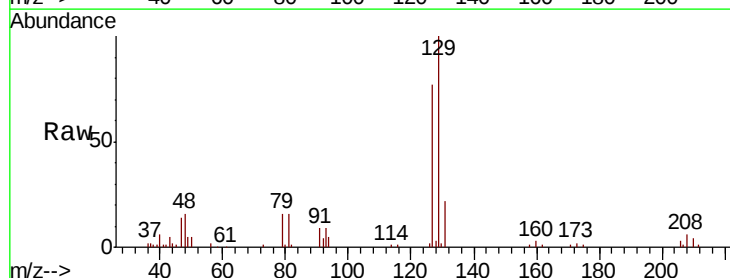
Manual Integrations
APPROVED

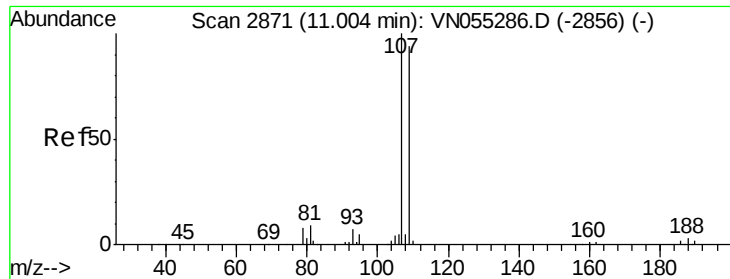
MMDadoda
5/3/2019 1:08:06 PM



#60
Dibromochloromethane
Concen: 20.082 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 129 Resp: 78117
Ion Ratio Lower Upper
129 100
127 78.0 38.1 114.5





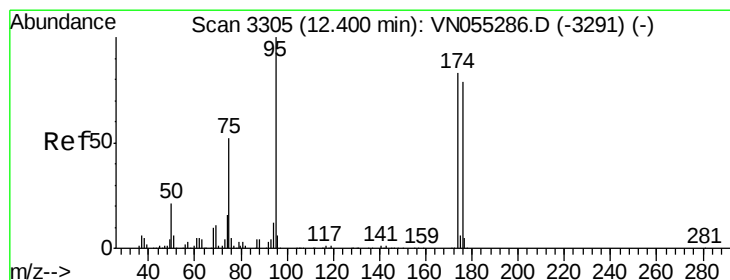
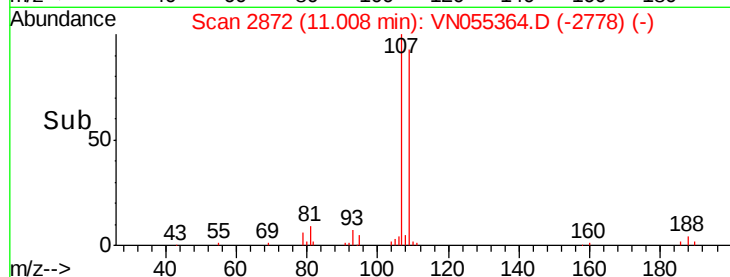
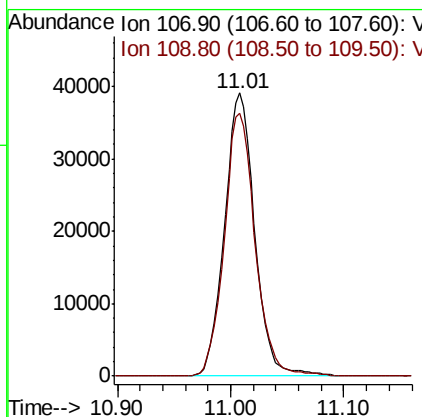
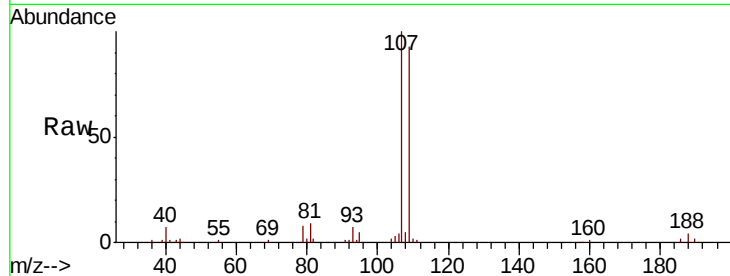
#61
1,2-Dibromoethane
Concen: 20.625 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 107 Resp: 72557
Ion Ratio Lower Upper
107 100
109 94.9 75.0 112.6

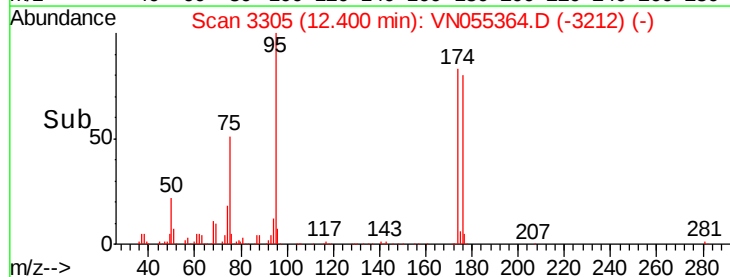
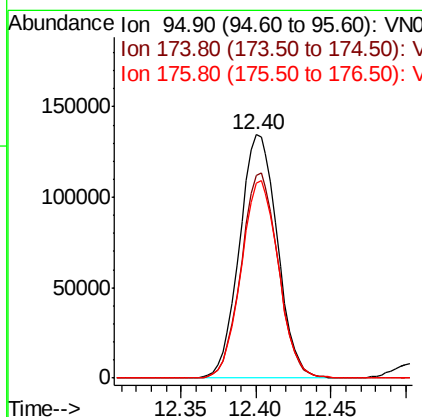
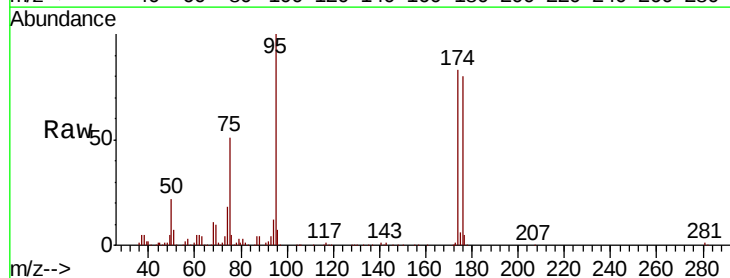
Manual Integrations
APPROVED

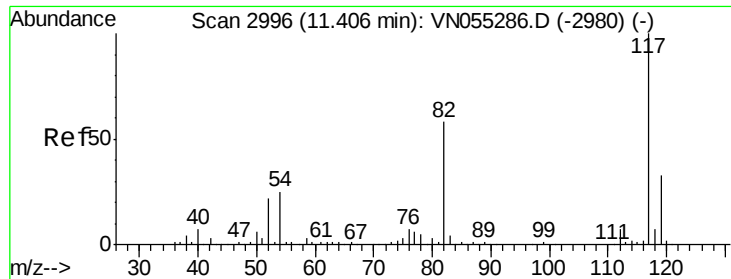
MMDadoda
5/3/2019 1:08:06 PM



#62
4-Bromofluorobenzene
Concen: 50.691 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 95 Resp: 237544
Ion Ratio Lower Upper
95 100
174 82.1 0.0 166.6
176 80.1 0.0 157.8





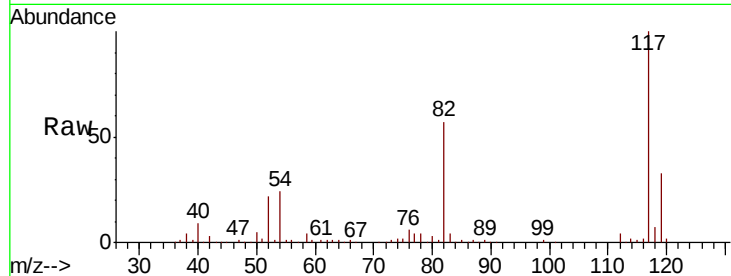
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	525094		
82	57.4	46.2	69.4	
119	32.6	26.6	40.0	

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

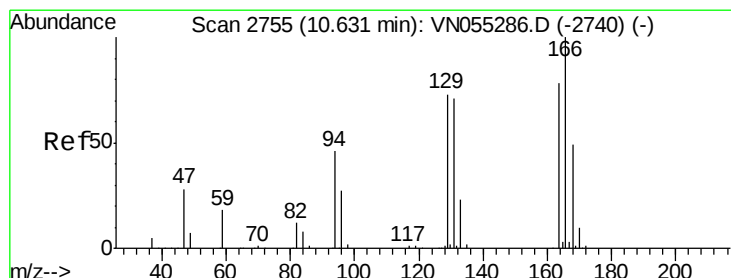
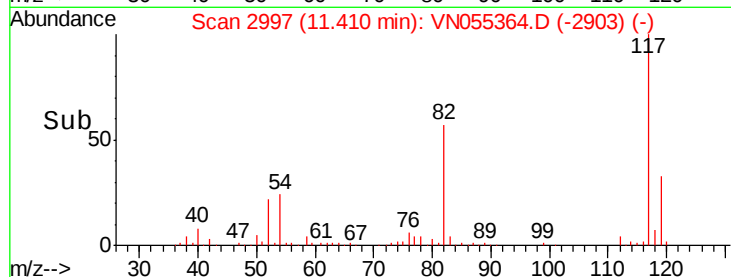
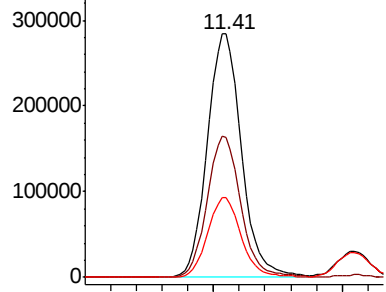


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 20.631 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	88593		
166	124.7	102.3	153.5	
129	94.1	75.0	112.6	
131	92.0	72.7	109.1	

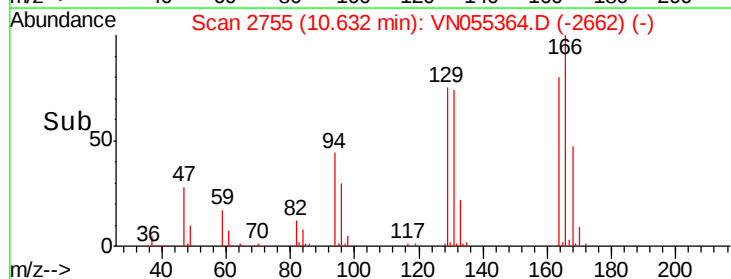
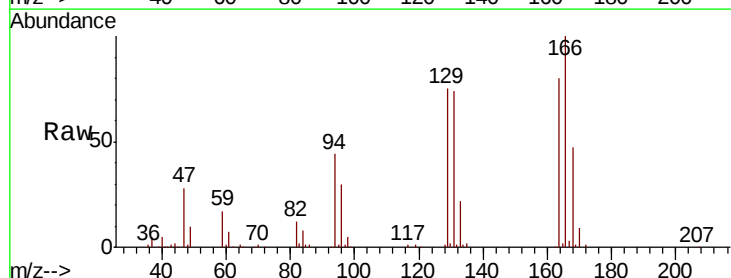
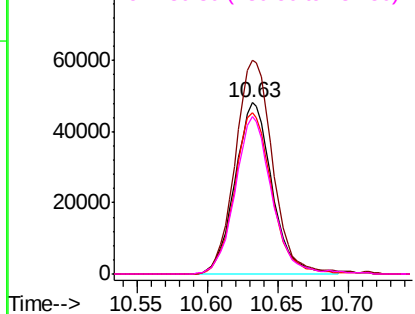
Abundance

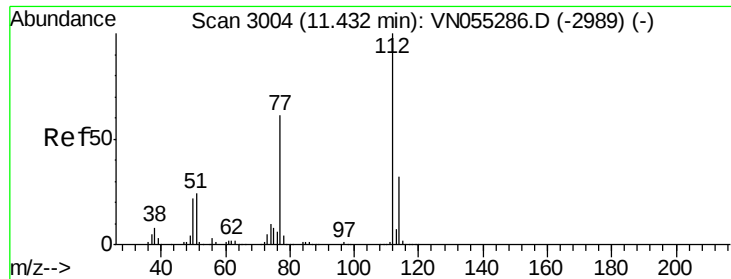
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





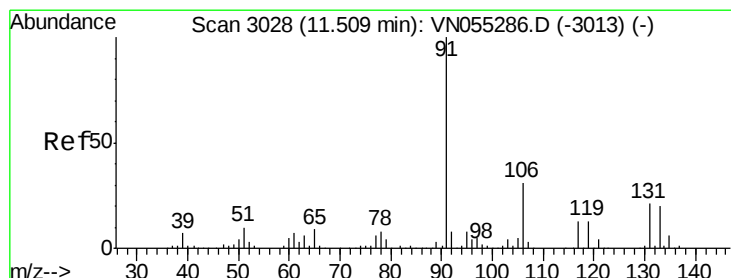
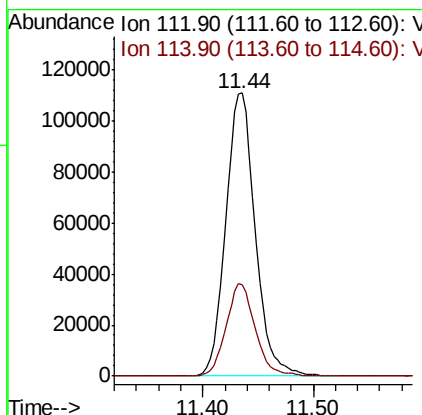
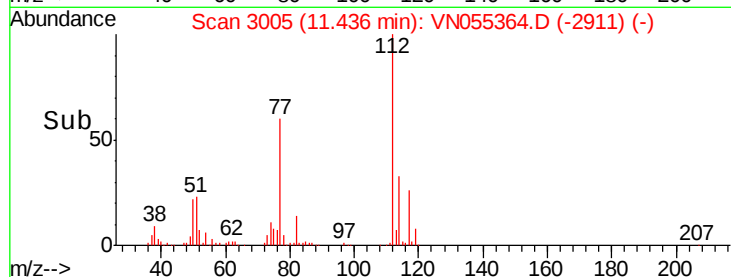
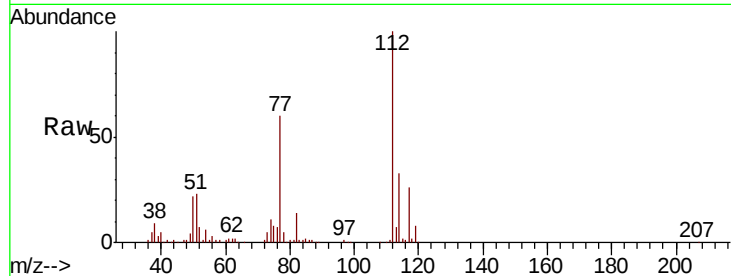
#65
Chlorobenzene
Concen: 19.993 ug/l
RT: 11.44 min Scan# 3005
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion:112 Resp: 205256
Ion Ratio Lower Upper
112 100
114 32.5 25.3 37.9

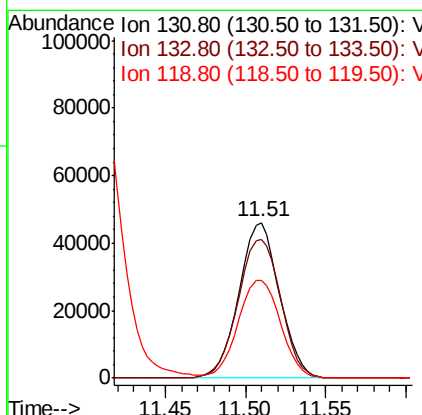
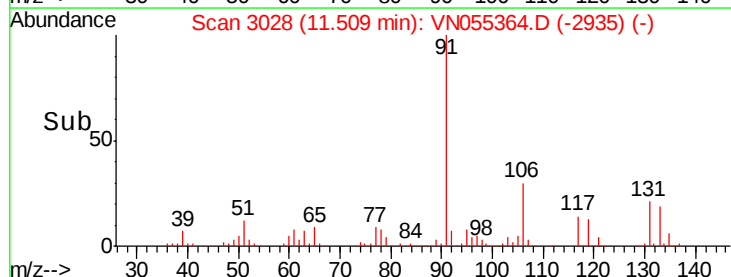
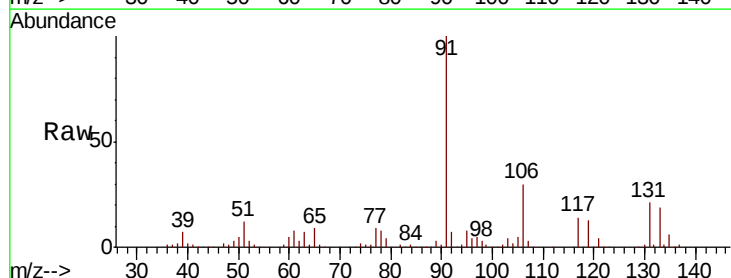
Manual Integrations
APPROVED

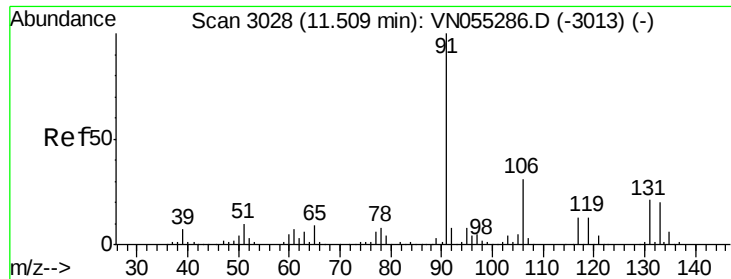
MMDadoda
5/3/2019 1:08:06 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.771 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion:131 Resp: 79480
Ion Ratio Lower Upper
131 100
133 93.9 47.5 142.6
119 66.3 32.7 98.1





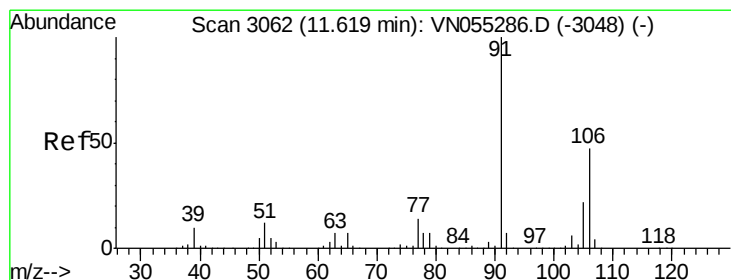
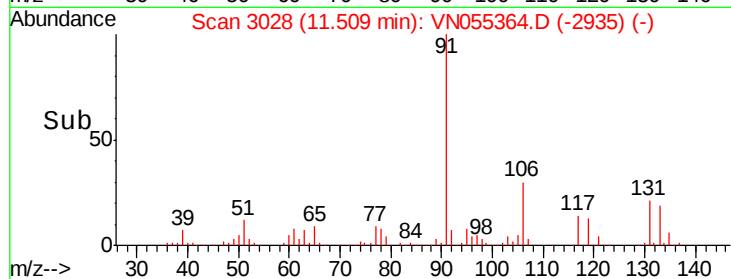
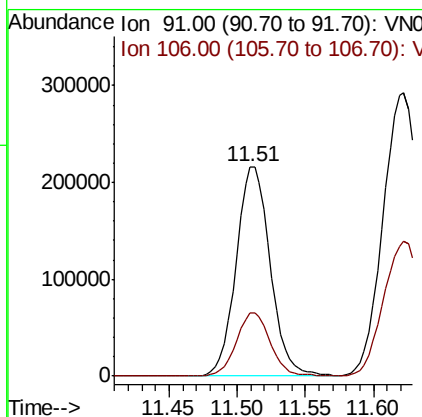
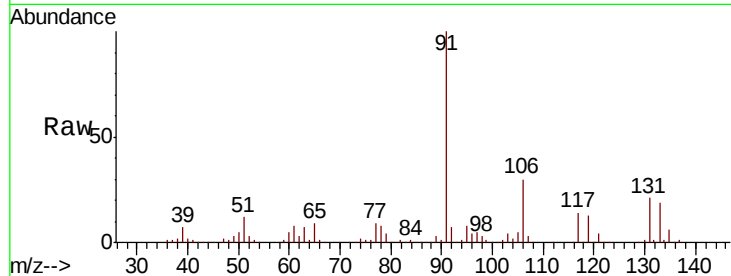
#67
Ethyl Benzene
Concen: 20.237 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion: 91 Resp: 375161
Ion Ratio Lower Upper
91 100
106 30.0 24.6 36.8

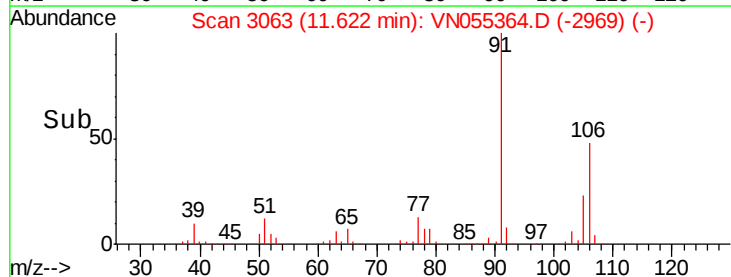
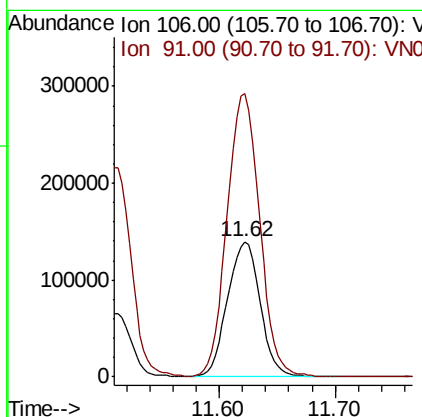
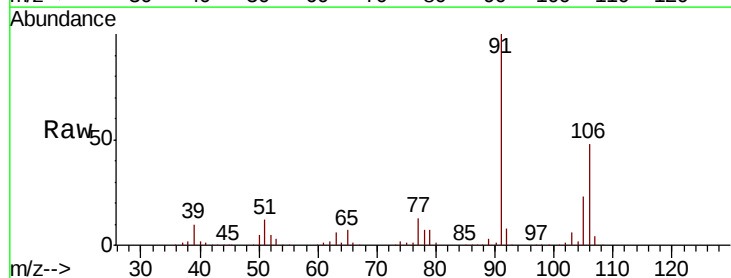
Manual Integrations
APPROVED

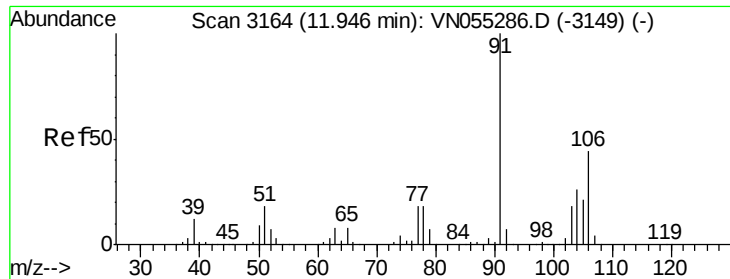
MMDadoda
5/3/2019 1:08:06 PM



#68
m/p-Xylenes
Concen: 41.135 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 106 Resp: 272206
Ion Ratio Lower Upper
106 100
91 209.2 169.5 254.3





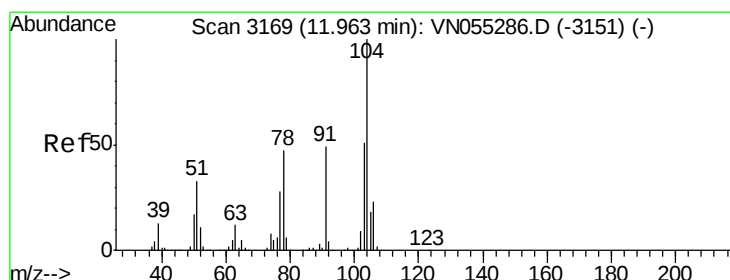
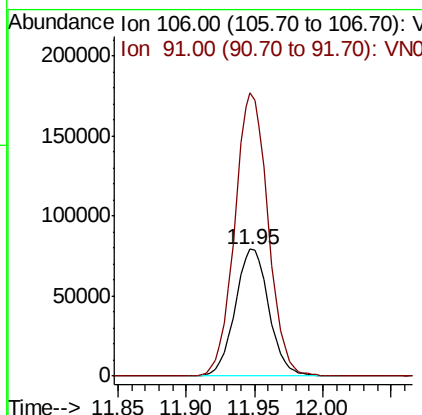
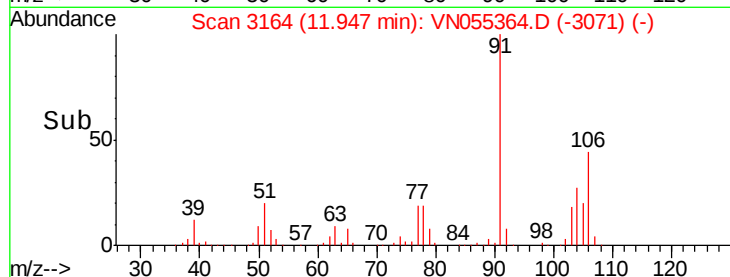
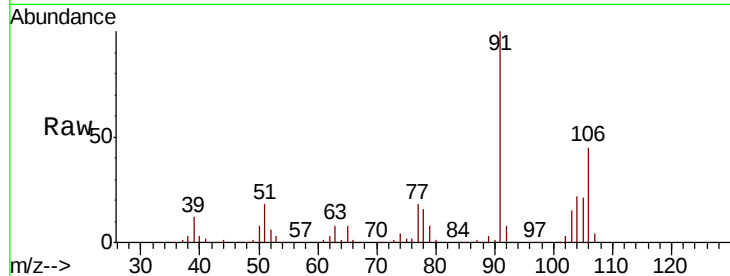
#69
o-Xylene
Concen: 20.688 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion:106 Resp: 135693
Ion Ratio Lower Upper
106 100
91 220.8 111.5 334.5

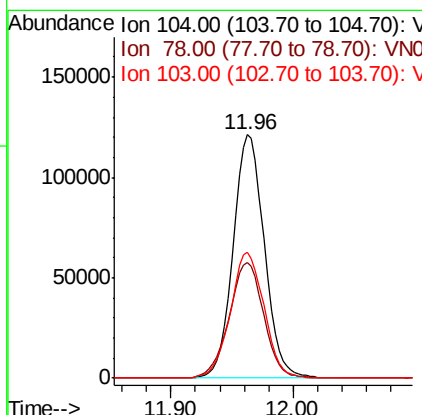
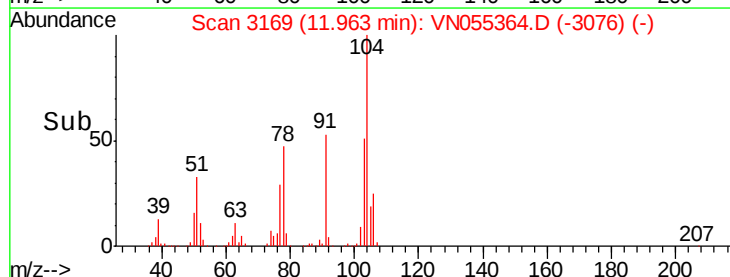
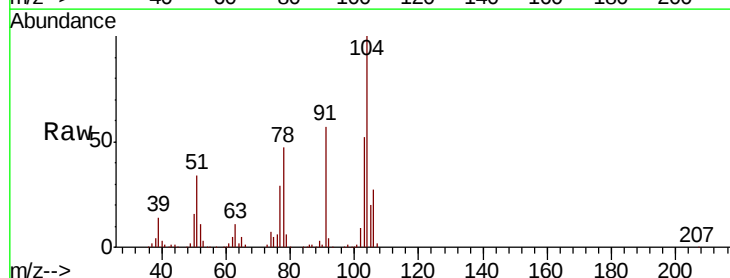
Manual Integrations
APPROVED

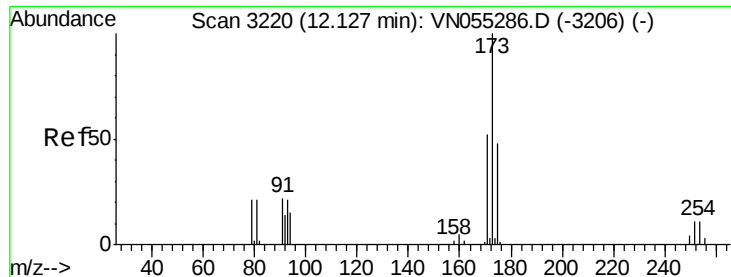
MMDadoda
5/3/2019 1:08:06 PM



#70
Styrene
Concen: 21.310 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion:104 Resp: 214600
Ion Ratio Lower Upper
104 100
78 53.0 42.2 63.2
103 56.1 44.6 67.0





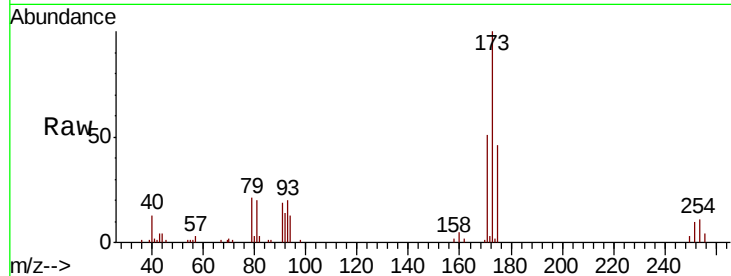
#71
Bromoform
Concen: 21.144 ug/l
RT: 12.13 min Scan# 3221
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

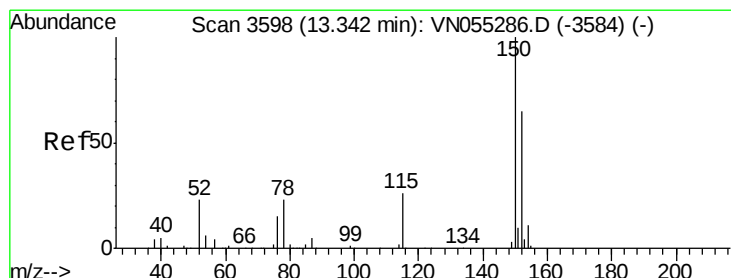
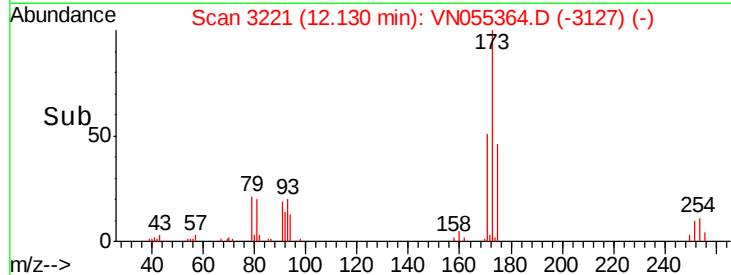
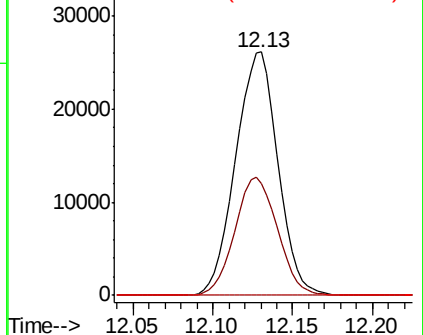
Tgt Ion:173 Resp: 47165
Ion Ratio Lower Upper
173 100
175 48.6 23.6 71.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

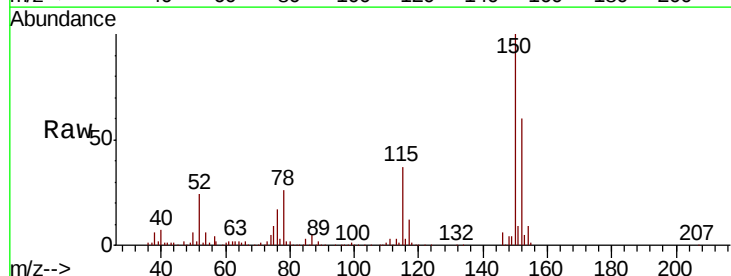


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

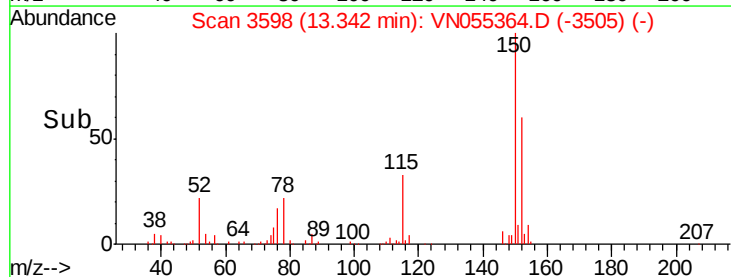
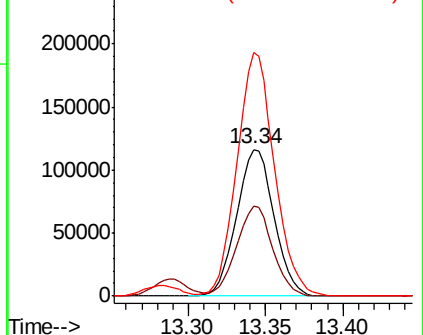


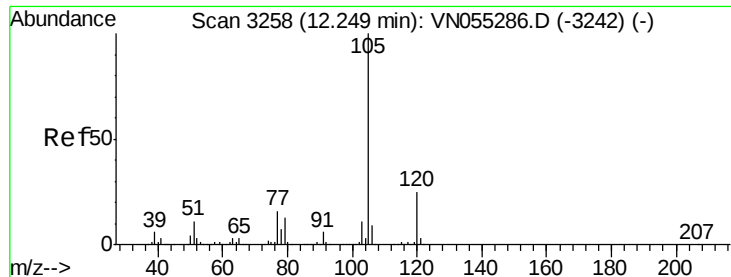
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion:152 Resp: 195045
Ion Ratio Lower Upper
152 100
115 59.4 29.0 87.0
150 166.5 0.0 345.6



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





#73

Isopropylbenzene

Concen: 21.220 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion: 105 Resp: 357568

Ion Ratio Lower Upper

105 100

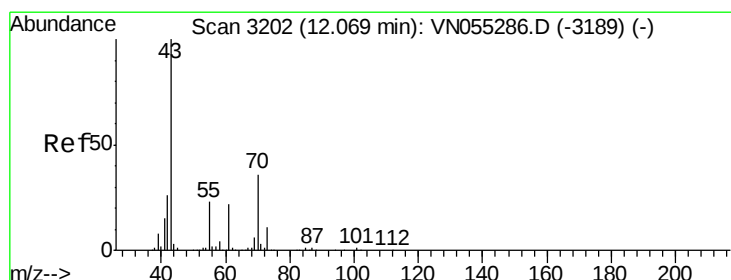
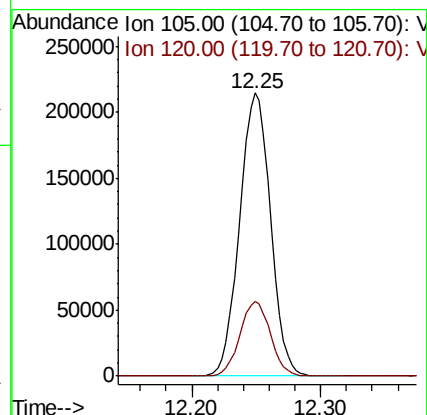
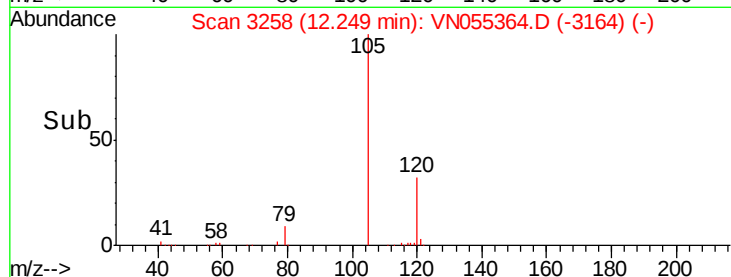
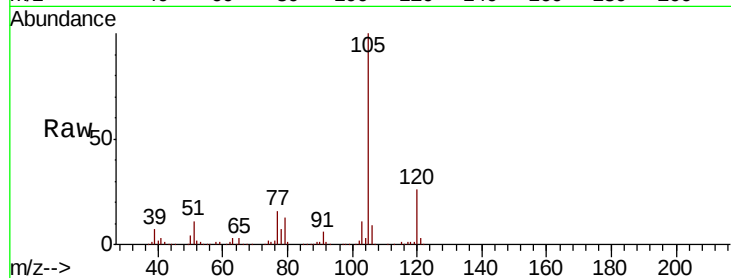
120 26.1 12.9 38.7

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



#74

N-ethyl acetate

Concen: 22.055 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Tgt Ion: 43 Resp: 110399

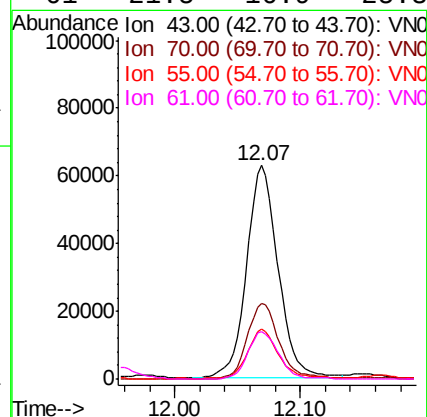
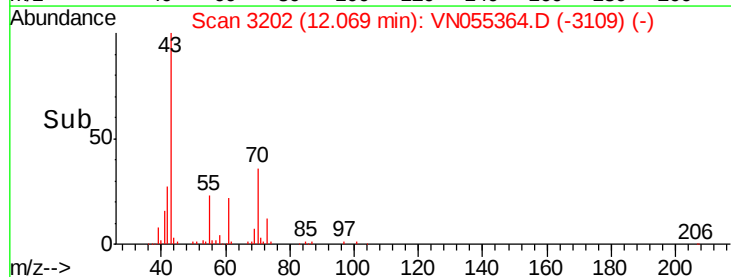
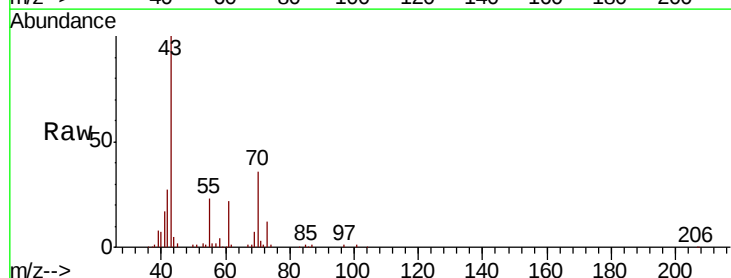
Ion Ratio Lower Upper

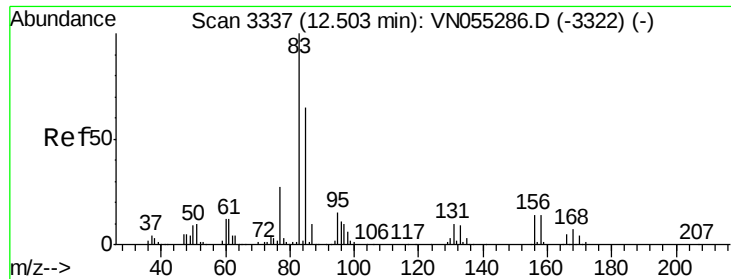
43 100

70 35.7 27.9 41.9

55 23.5 18.2 27.2

61 21.5 16.9 25.3





#75

1,1,2,2-Tetrachloroethane

Concen: 22.757 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

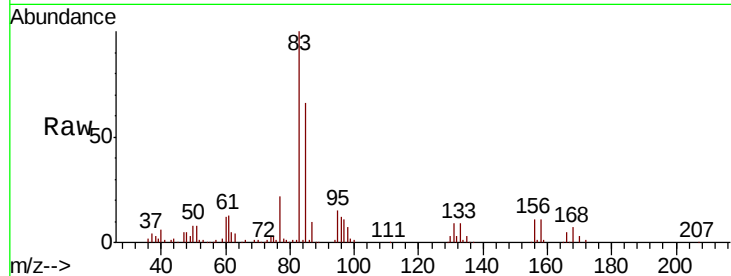
ClientSampleId :

VN0502MBS02

Tgt Ion:	83	Resp:	94639
Ion Ratio	Lower	Upper	
83	100		
131	9.7	5.1	15.2
85	65.0	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

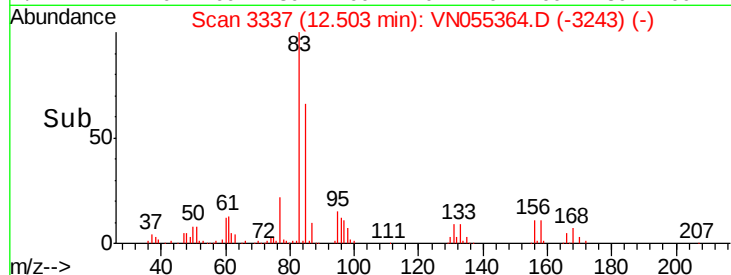


Abundance Ion 82.90 (82.60 to 83.60): VN055286.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN055286.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN055286.D (-3322) (-)

Time-->

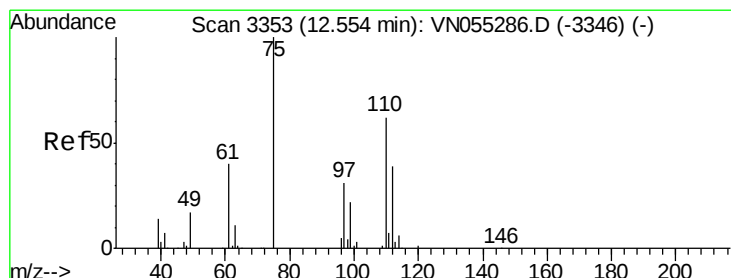


Abundance Ion 82.90 (82.60 to 83.60): VN055364.D (-3243) (-)

Ion 130.80 (130.50 to 131.50): VN055364.D (-3243) (-)

Ion 84.90 (84.60 to 85.60): VN055364.D (-3243) (-)

Time-->



#76

1,2,3-Trichloropropane

Concen: 23.352 ug/l m

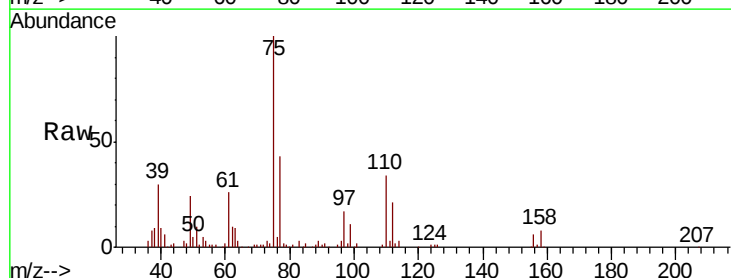
RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

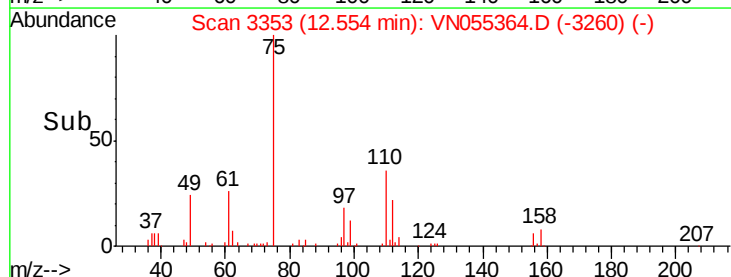
Tgt Ion:	75	Resp:	89524
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN055286.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN055286.D (-3346) (-)

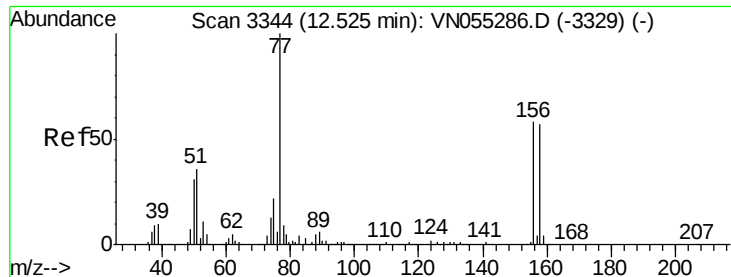
Time-->



Abundance Ion 74.90 (74.60 to 75.60): VN055364.D (-3260) (-)

Ion 77.00 (76.70 to 77.70): VN055364.D (-3260) (-)

Time-->



#77

Bromobenzene

Concen: 21.153 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

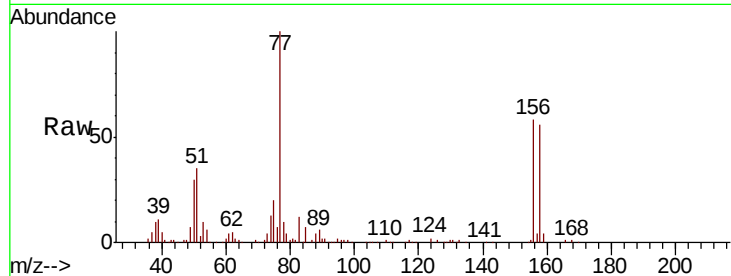
ClientSampled :

VN0502MBS02

Tgt Ion:	156	Resp:	83440
Ion Ratio	Lower	Upper	
156	100		
77	204.1	99.6	298.8
158	97.6	49.3	147.8

Manual Integrations
APPROVED

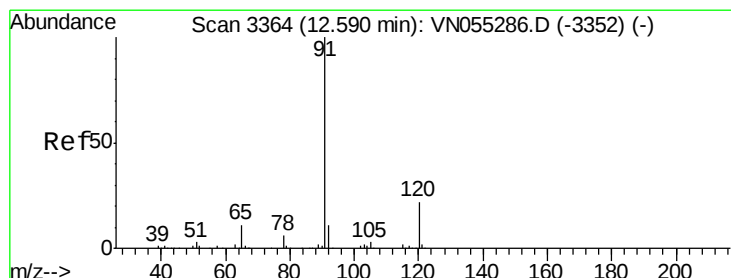
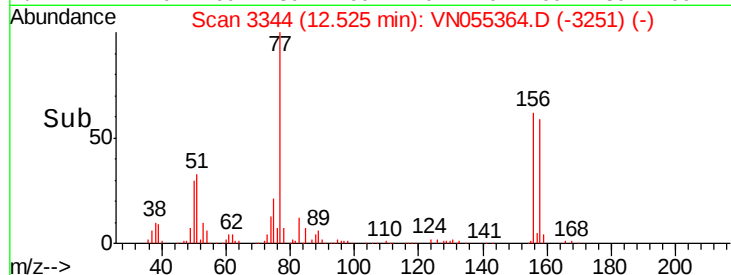
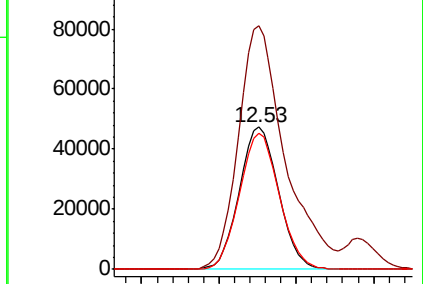
MMDadoda
5/3/2019 1:08:06 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.145 ug/l

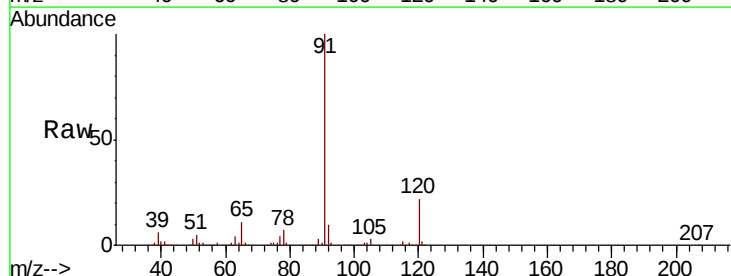
RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055364.D

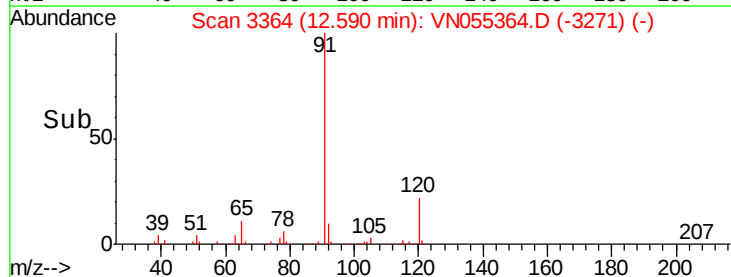
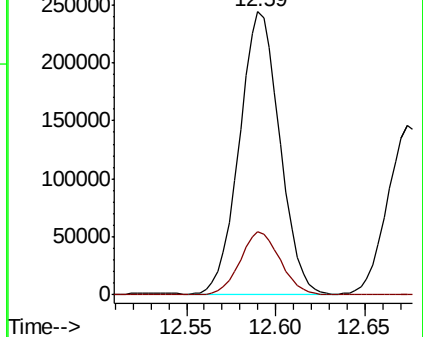
Acq: 2 May 2019 22:12

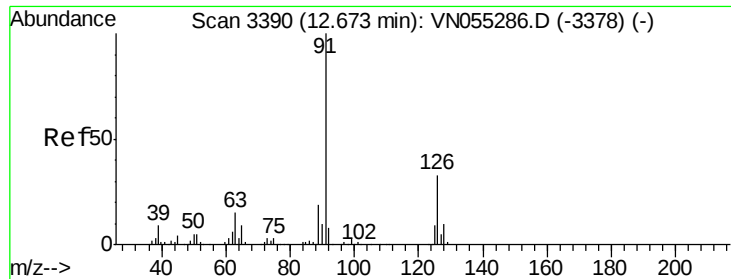
Tgt Ion:	91	Resp:	383583
Ion Ratio	Lower	Upper	
91	100		
120	22.2	11.0	33.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





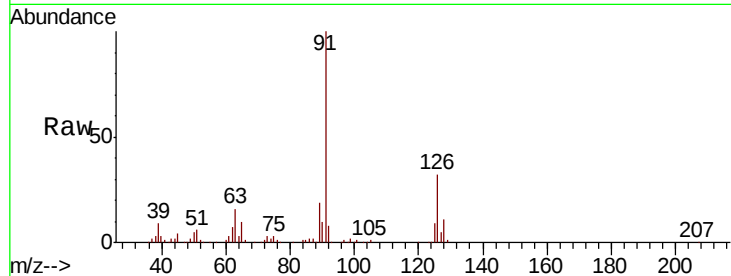
#79
2-Chlorotoluene
Concen: 21.425 ug/l
RT: 12.67 min Scan# 3390
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

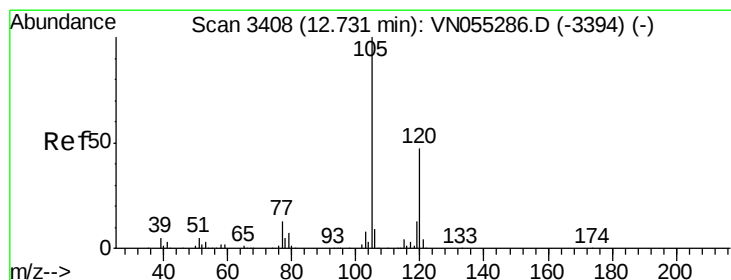
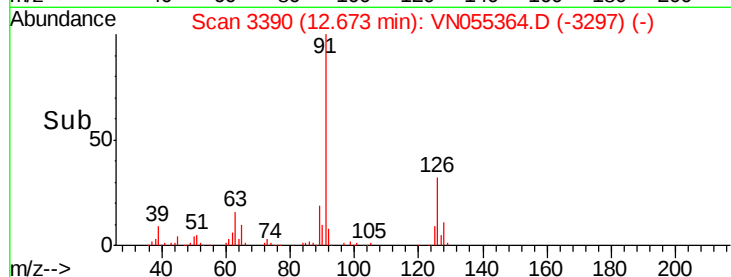
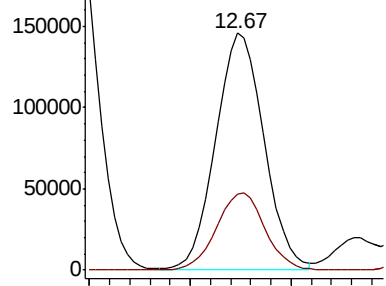
Tgt Ion: 91 Resp: 242554
Ion Ratio Lower Upper
91 100
126 32.9 16.6 49.7

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM

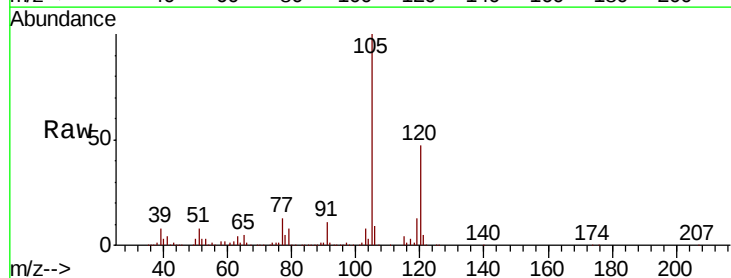


Abundance Ion 91.00 (90.70 to 91.70): VN055364.D (-3297) (-)
Ion 125.90 (125.60 to 126.60): VN055364.D (-3297) (-)

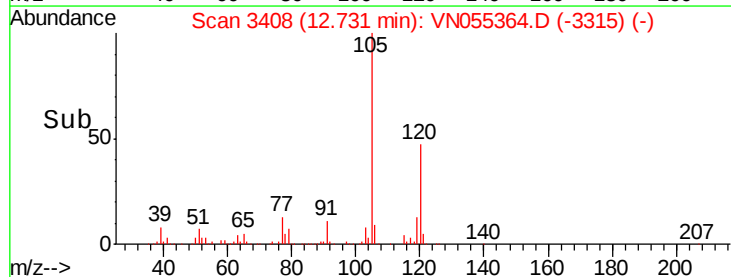
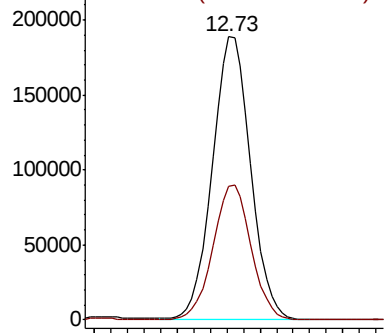


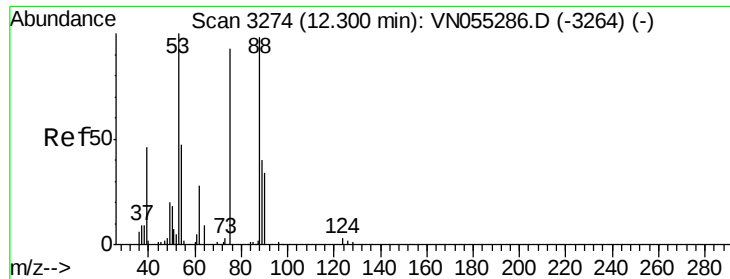
#80
1,3,5-Trimethylbenzene
Concen: 19.651 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion: 105 Resp: 300479
Ion Ratio Lower Upper
105 100
120 48.0 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN055364.D (-3315) (-)
Ion 120.00 (119.70 to 120.70): VN055364.D (-3315) (-)





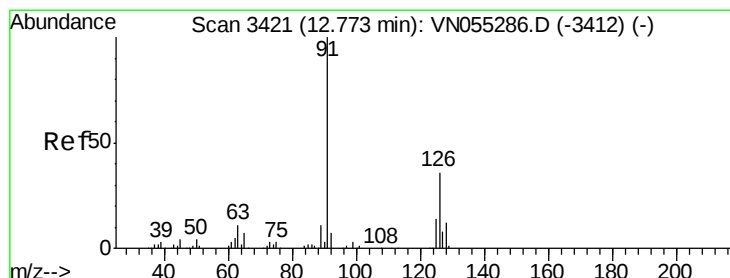
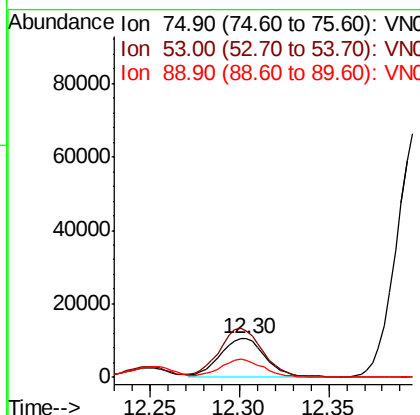
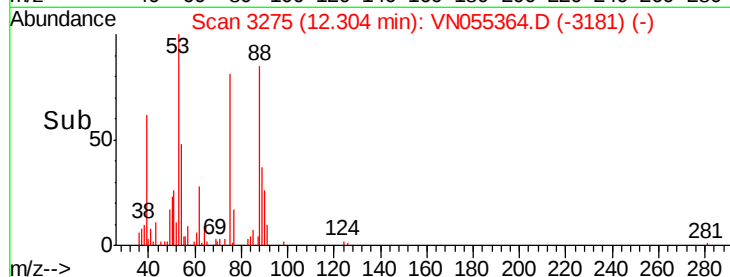
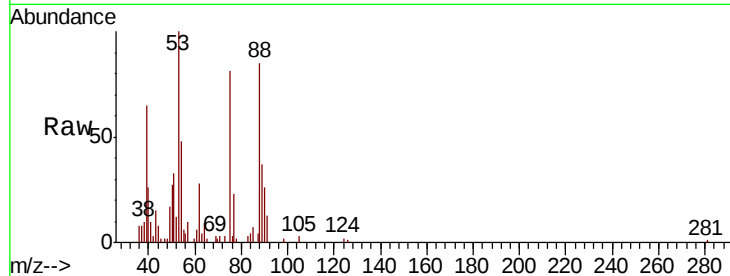
#81
trans-1,4-Dichloro-2-butene
Concen: 18.279 ug/l
RT: 12.30 min Scan# 3275
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
75	100		
53	122.9	86.3	129.5
89	43.9	34.6	51.8

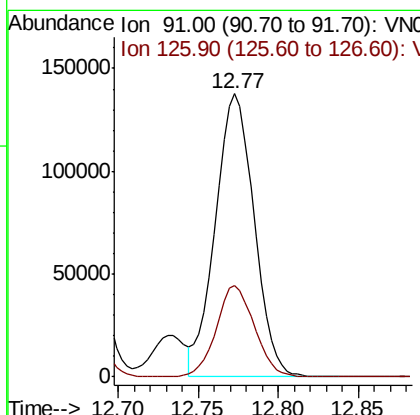
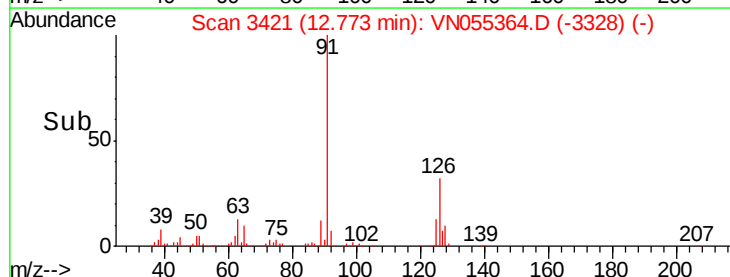
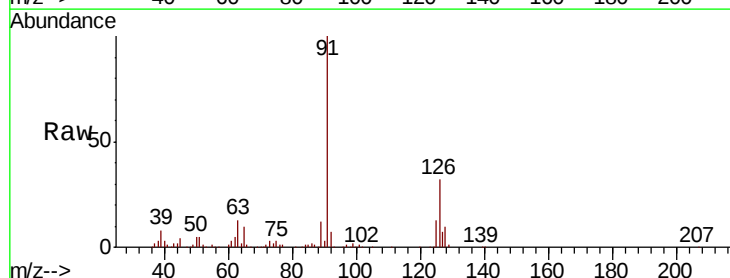
Manual Integrations
APPROVED

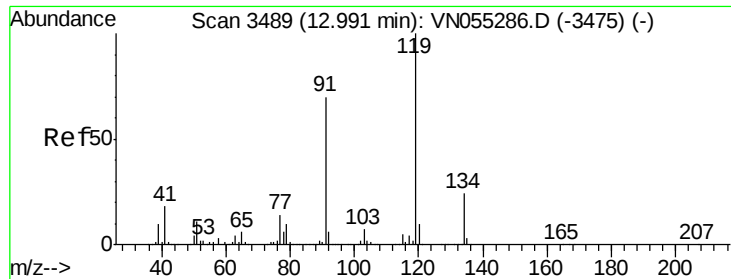
MMDadoda
5/3/2019 1:08:06 PM



#82
4-Chlorotoluene
Concen: 19.558 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.6	49.7





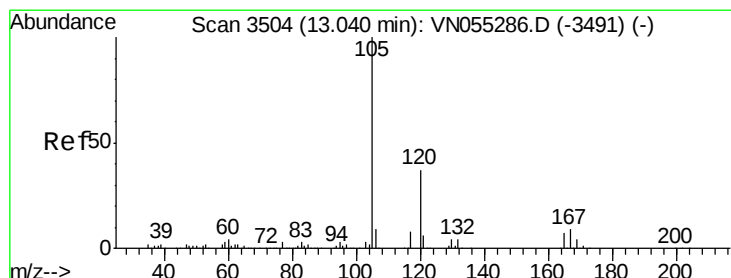
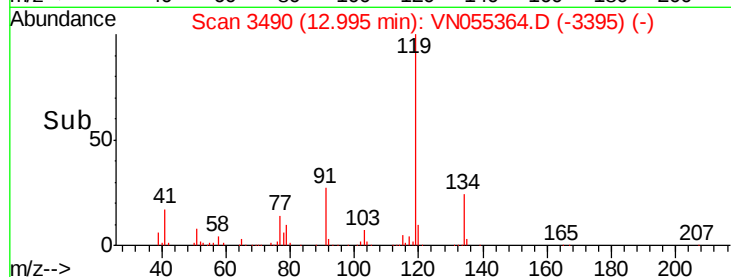
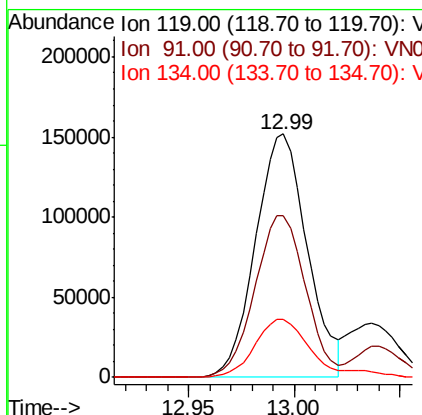
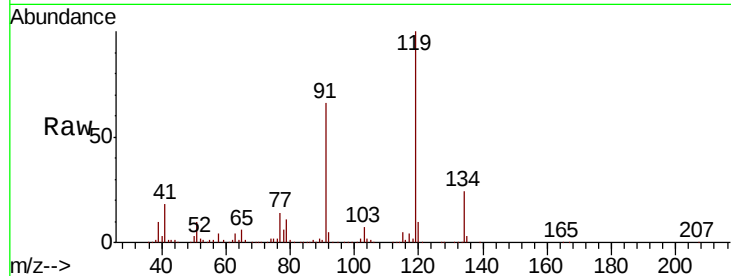
#83
 tert-Butylbenzene
 Concen: 22.317 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	258977		
91	65.3	34.3	102.9	
134	26.3	13.1	39.3	

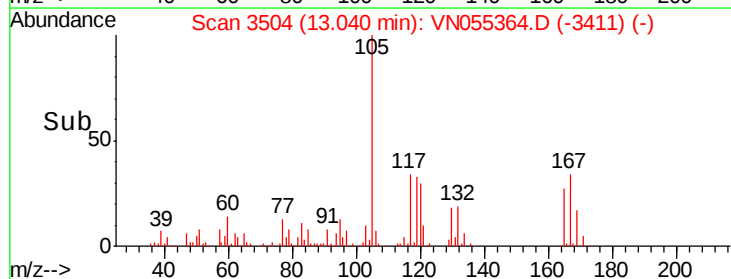
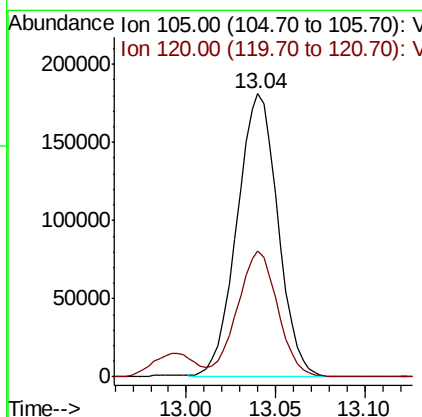
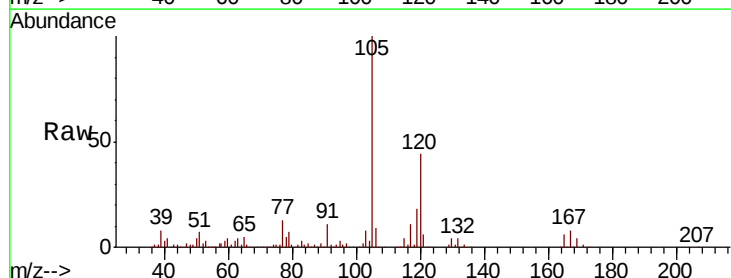
Manual Integrations
 APPROVED

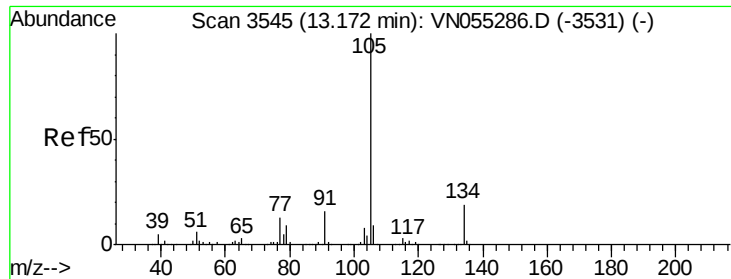
MMDadoda
 5/3/2019 1:08:06 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.056 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	287945		
120	44.0	22.1	66.5	





#85

sec-Butylbenzene

Concen: 19.214 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

Instrument :

MSVOA_N

ClientSampleId :

VN0502MBS02

Tgt Ion:105 Resp: 319330

Ion Ratio Lower Upper

105 100

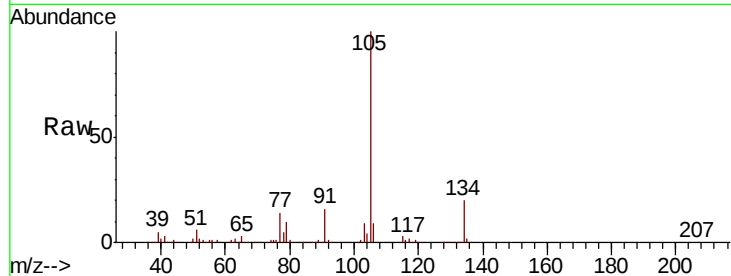
134 20.0 9.6 28.8

Manual Integrations

APPROVED

MMDadoda

5/3/2019 1:08:06 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

200000

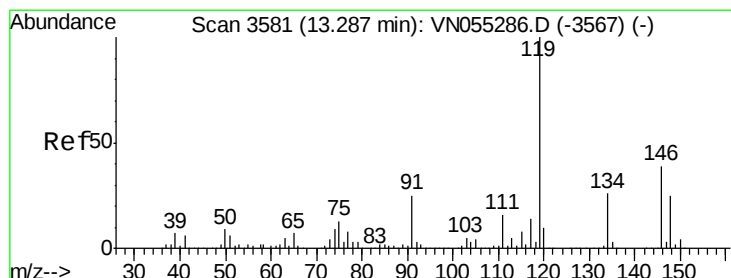
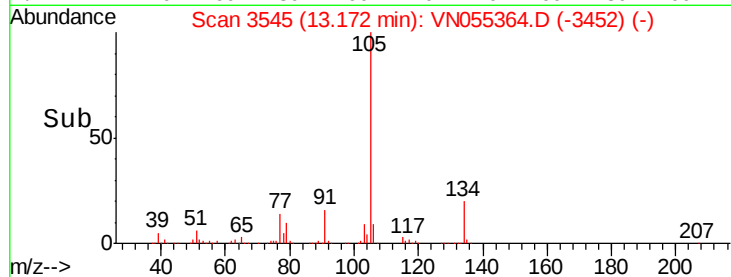
150000

100000

50000

0

Time--> 13.10 13.15 13.20



#86

p-Isopropyltoluene

Concen: 19.918 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055364.D

Acq: 2 May 2019 22:12

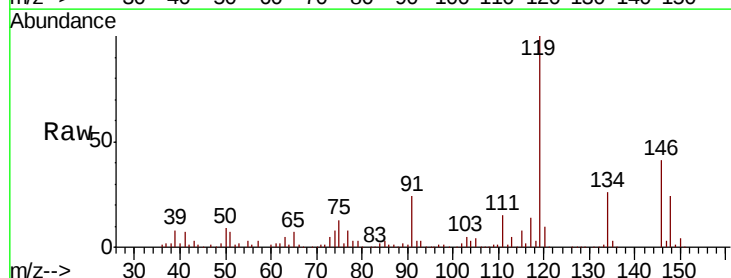
Tgt Ion:119 Resp: 272086

Ion Ratio Lower Upper

119 100

134 25.6 13.0 38.9

91 23.8 12.2 36.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

200000

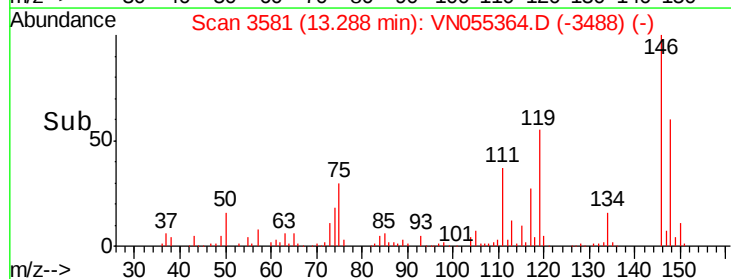
150000

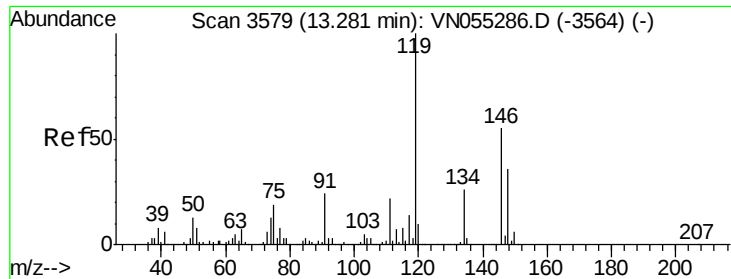
100000

50000

0

Time--> 13.20 13.25 13.30 13.35





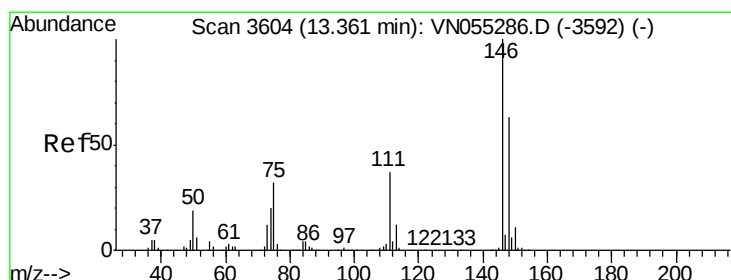
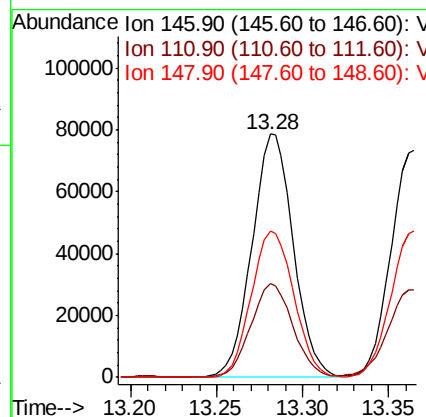
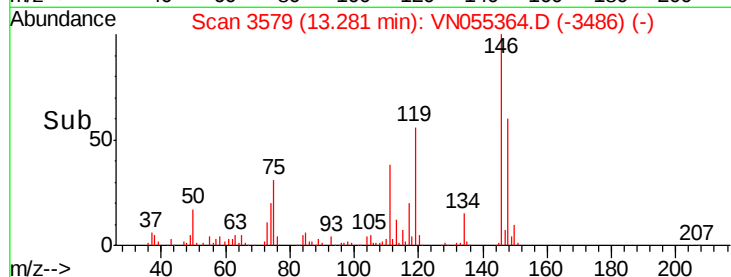
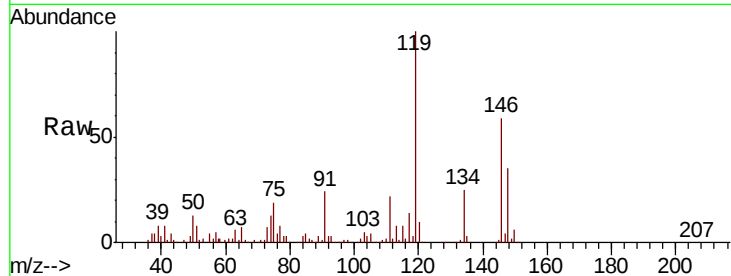
#87
 1,3-Dichlorobenzene
 Concen: 20.075 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.3	60.8
148	61.8	32.5	97.5

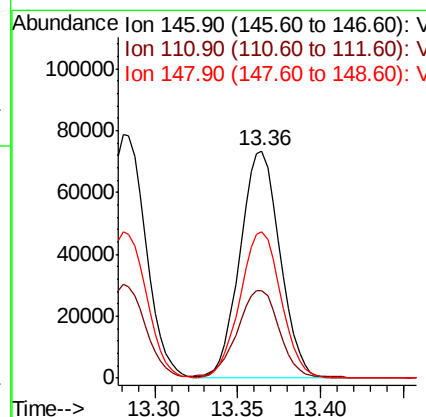
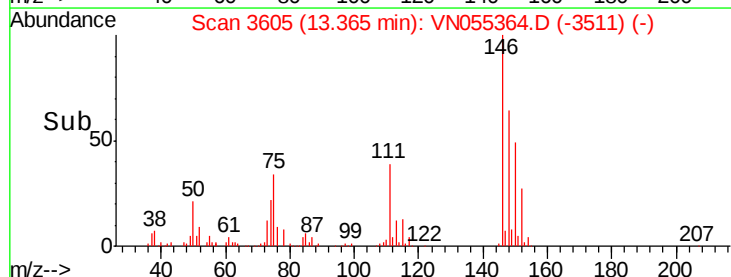
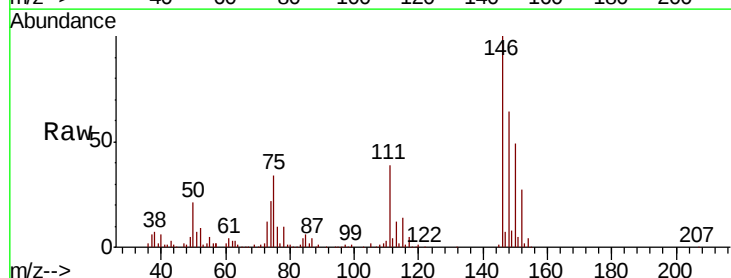
Manual Integrations
 APPROVED

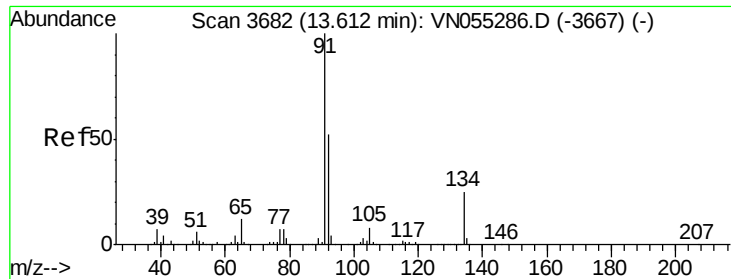
MMDadoda
 5/3/2019 1:08:06 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.029 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	19.5	58.5
148	66.0	32.5	97.4





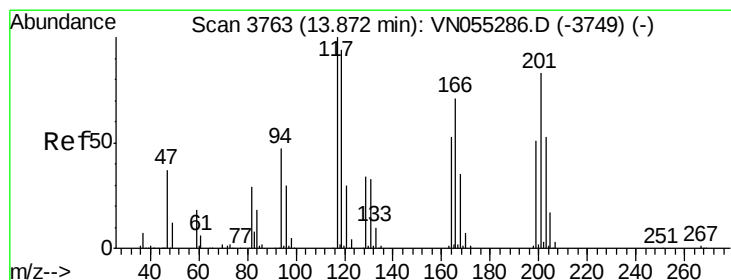
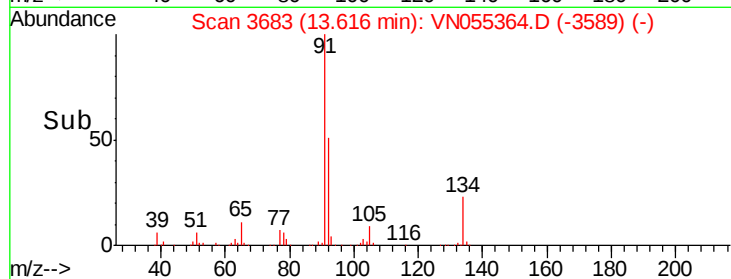
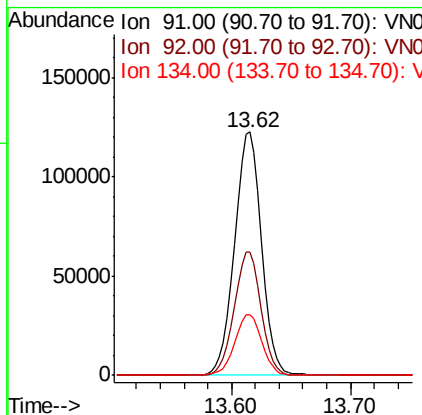
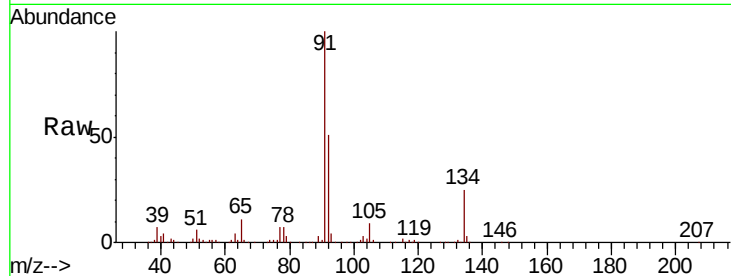
#89
n-Butylbenzene
Concen: 19.786 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.3	26.1	78.3
134	25.2	12.4	37.4

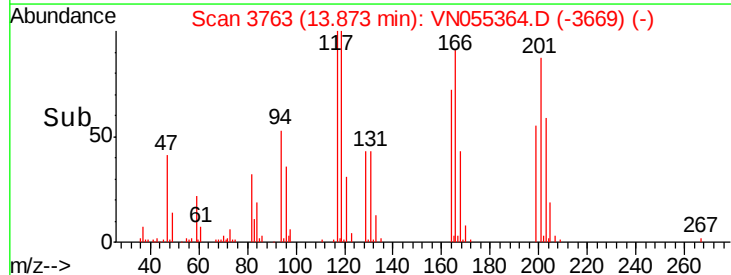
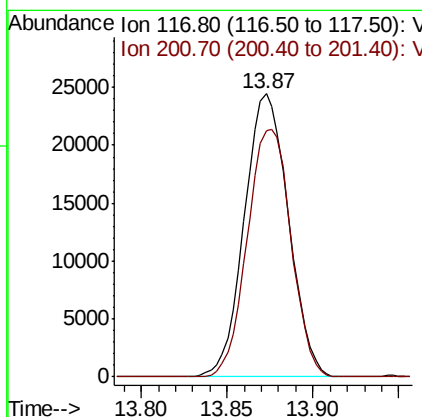
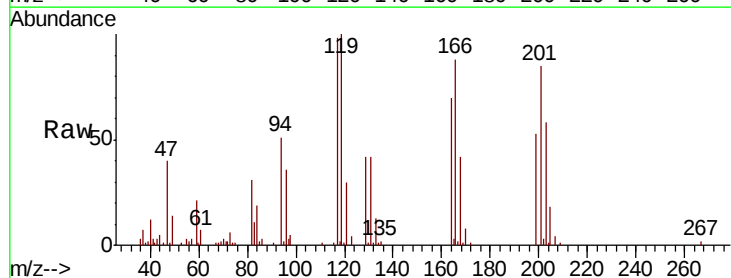
Manual Integrations
APPROVED

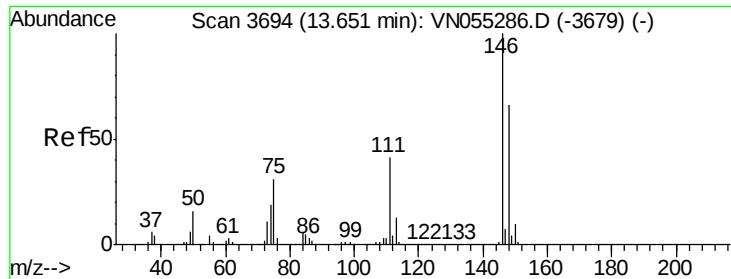
MMDadoda
5/3/2019 1:08:06 PM



#90
Hexachloroethane
Concen: 19.177 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.3	41.9	125.8





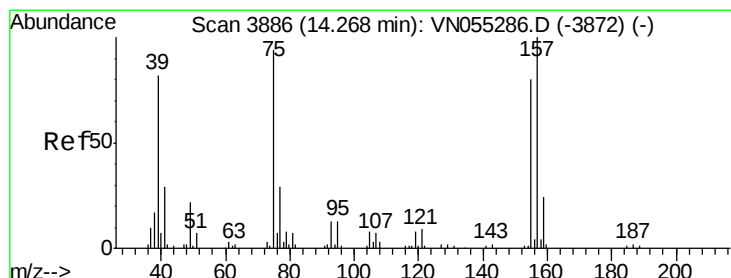
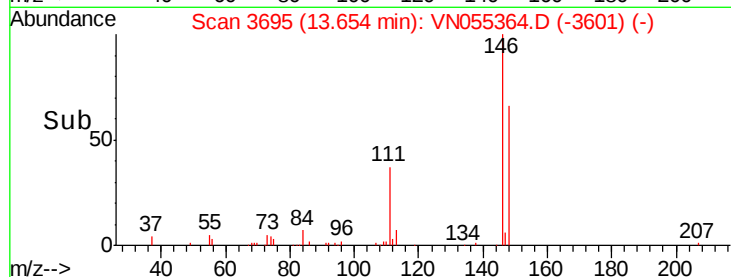
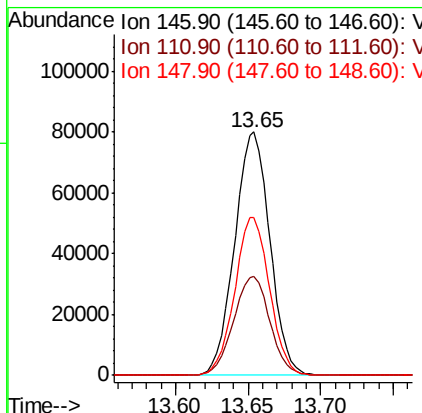
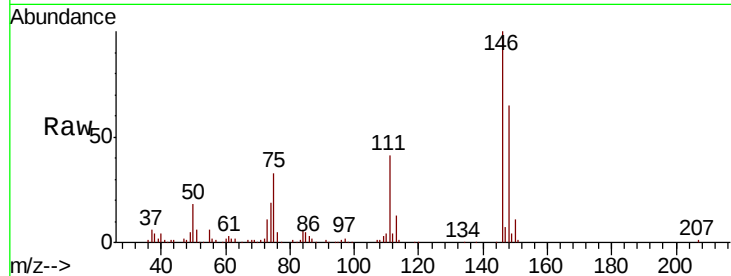
#91
 1,2-Dichlorobenzene
 Concen: 20.861 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.3	61.0
148	64.0	32.4	97.2

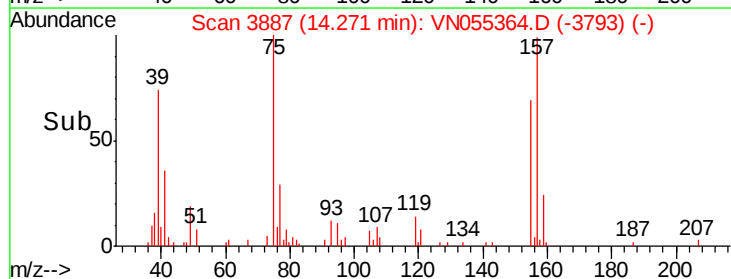
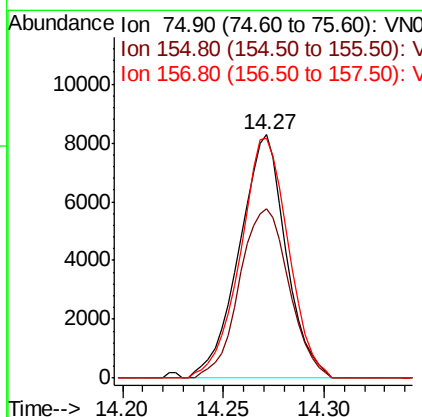
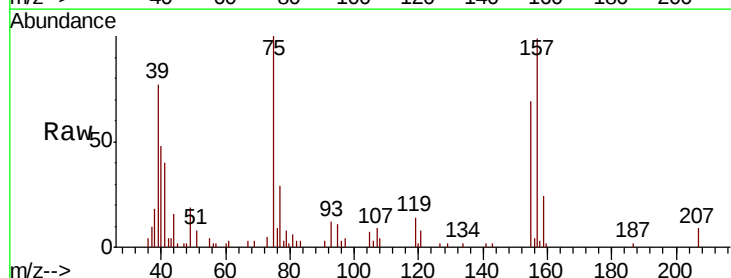
Manual Integrations
 APPROVED

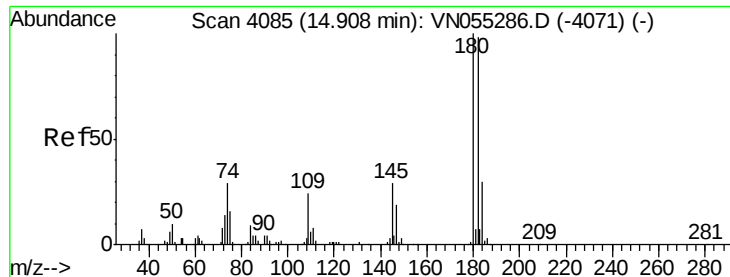
MMDadoda
 5/3/2019 1:08:06 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 26.106 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.9	41.5	124.6
157	101.5	54.0	162.2





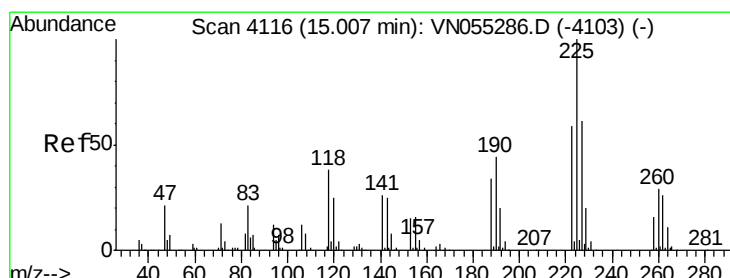
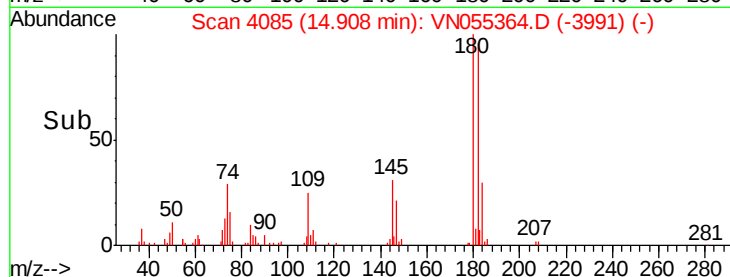
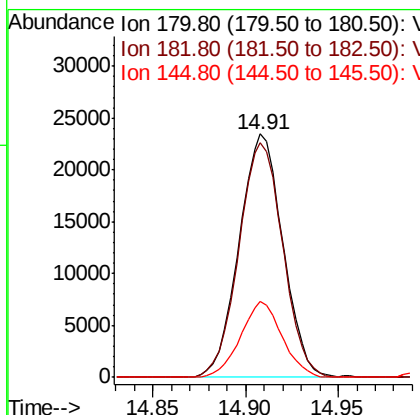
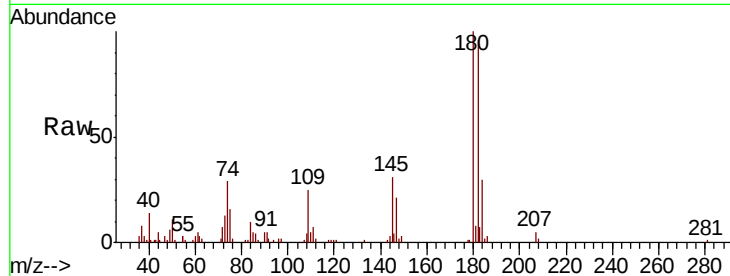
#93
 1,2,4-Trichlorobenzene
 Concen: 17.417 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0502MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	38525		
182	96.7	48.3	144.9	
145	29.5	14.2	42.6	

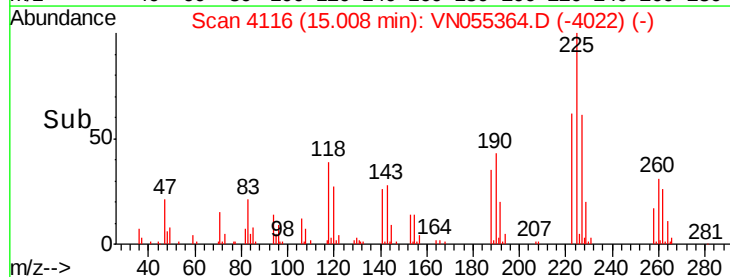
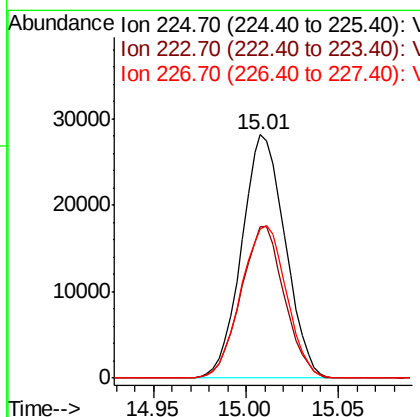
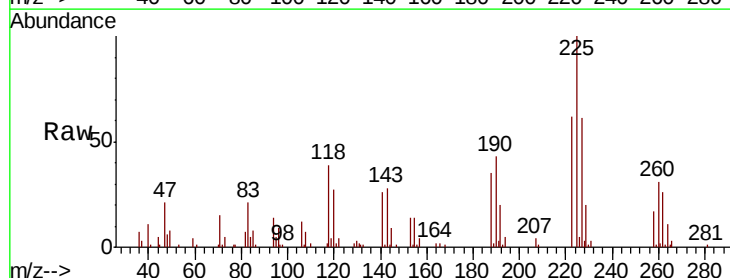
Manual Integrations
 APPROVED

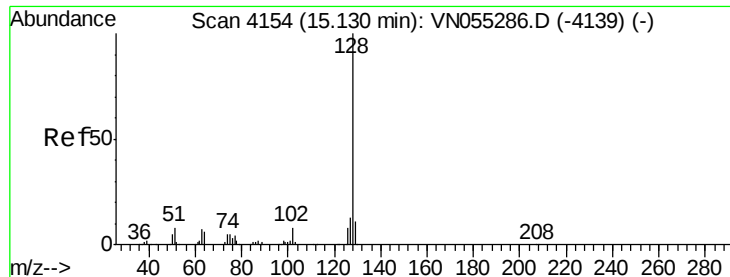
MMDadoda
 5/3/2019 1:08:06 PM



#94
 Hexachlorobutadiene
 Concen: 21.962 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055364.D
 Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	45805		
223	62.2	30.3	90.8	
227	65.4	30.9	92.7	





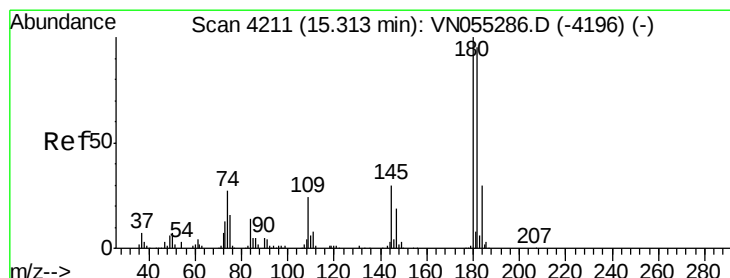
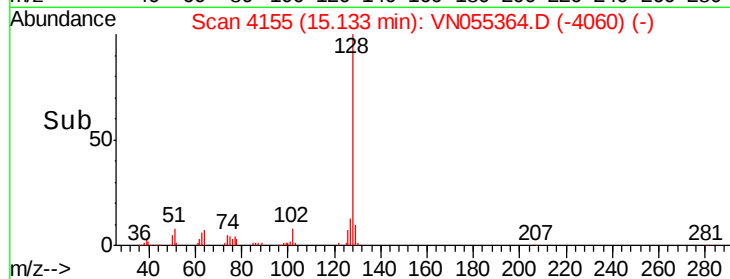
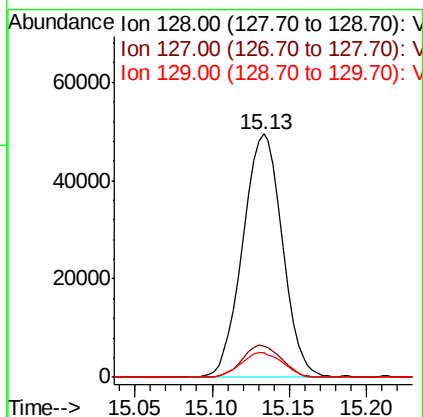
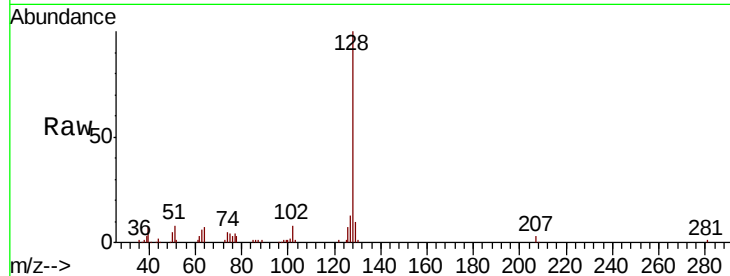
#95
Naphthalene
Concen: 18.560 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Instrument :
MSVOA_N
ClientSampleId :
VN0502MBS02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.7	16.1
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
5/3/2019 1:08:06 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.791 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055364.D
Acq: 2 May 2019 22:12

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	48.3	144.9
145	31.3	15.2	45.6

