

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052287.D
 Acq On : 13 Nov 2018 15:30
 Operator : MD\SY
 Sample : VN1113WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:28 AM

Quant Time: Nov 14 01:22:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	275158	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	470190	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	419731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	177979	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	189438	50.34	ug/l	0.00
Spiked Amount			Recovery	=	100.68%	
35) Dibromofluoromethane	7.59	113	153624	50.44	ug/l	0.00
Spiked Amount			Recovery	=	100.88%	
50) Toluene-d8	10.09	98	583232	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	12.40	95	187331	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	59254	19.808	ug/l	96
3) Chloromethane	2.06	50	78287	18.745	ug/l	99
4) Vinyl Chloride	2.19	62	68868	19.791	ug/l	98
5) Bromomethane	2.58	94	39636	17.953	ug/l	92
6) Chloroethane	2.71	64	39418	19.076	ug/l	97
7) Trichlorofluoromethane	3.03	101	94555	19.520	ug/l	99
8) Diethyl Ether	3.41	74	34883	18.305	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.77	101	57063	18.362	ug/l	98
10) Methyl Iodide	3.96	142	75620	18.754	ug/l	99
11) Tert butyl alcohol	4.78	59	17658	91.543	ug/l #	71
12) 1,1-Dichloroethene	3.74	96	52567	18.274	ug/l	96
13) Acrolein	3.61	56	23314	101.360	ug/l	94
14) Allyl chloride	4.33	41	106319	17.653	ug/l	96
15) Acrylonitrile	4.99	53	107667	90.816	ug/l	99
16) Acetone	3.82	43	81965	78.677	ug/l	96
17) Carbon Disulfide	4.06	76	148863	17.839	ug/l	98
18) Methyl Acetate	4.33	43	55679	17.707	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	154681	18.821	ug/l	96
20) Methylene Chloride	4.56	84	65363	19.054	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	58092	18.581	ug/l	99
22) Diisopropyl ether	5.95	45	228806	18.951	ug/l	95
23) Vinyl Acetate	5.90	43	767559	92.651	ug/l	100
24) 1,1-Dichloroethane	5.85	63	120775	18.939	ug/l	99
25) 2-Butanone	6.84	43	132379	82.465	ug/l	99
26) 2,2-Dichloropropane	6.83	77	81286	17.453	ug/l	99
27) cis-1,2-Dichloroethene	6.84	96	66599	19.030	ug/l	99
28) Bromochloromethane	7.20	49	60047	19.057	ug/l	99
29) Tetrahydrofuran	7.21	42	89595	85.758	ug/l	100
30) Chloroform	7.37	83	114437	18.962	ug/l	99
31) Cyclohexane	7.66	56	115473	19.162	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	95304	19.374	ug/l	98
36) 1,1-Dichloropropene	7.80	75	88584	18.666	ug/l	98
37) Ethyl Acetate	6.93	43	63941	17.913	ug/l	97
38) Carbon Tetrachloride	7.78	117	81397	18.926	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052287.D
 Acq On : 13 Nov 2018 15:30
 Operator : MD\SY
 Sample : VN1113WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:28 AM

Quant Time: Nov 14 01:22:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	98394	18.177	ug/l	98
40) Benzene	8.04	78	257730	18.968	ug/l	100
41) Methacrylonitrile	7.18	41	37179	17.925	ug/l #	89
42) 1,2-Dichloroethane	8.12	62	89134	18.696	ug/l	100
43) Isopropyl Acetate	8.17	43	117473	18.881	ug/l	96
44) Trichloroethene	8.84	130	63287	18.587	ug/l	99
45) 1,2-Dichloropropane	9.12	63	73452	19.350	ug/l	97
46) Dibromomethane	9.21	93	41351	18.964	ug/l	97
47) Bromodichloromethane	9.40	83	86497	19.147	ug/l	98
48) Methyl methacrylate	9.20	41	57138	17.429	ug/l	100
49) 1,4-Dioxane	9.20	88	9879	374.868	ug/l #	87
51) 4-Methyl-2-Pentanone	9.99	43	302639	88.078	ug/l	99
52) Toluene	10.16	92	157105	19.167	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	82999	18.618	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	97446	18.517	ug/l	96
55) 1,1,2-Trichloroethane	10.56	97	54536	18.408	ug/l	99
56) Ethyl methacrylate	10.43	69	72170	18.024	ug/l	98
57) 1,3-Dichloropropane	10.71	76	96736	18.240	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	206796	93.274	ug/l	100
59) 2-Hexanone	10.75	43	196227	81.352	ug/l	98
60) Dibromochloromethane	10.90	129	57606	19.169	ug/l	98
61) 1,2-Dibromoethane	11.01	107	54060	18.567	ug/l	98
64) Tetrachloroethene	10.63	164	57283	19.493	ug/l	96
65) Chlorobenzene	11.43	112	169373	19.044	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	58197	19.318	ug/l	98
67) Ethyl Benzene	11.51	91	298372	19.073	ug/l	99
68) m/p-Xylenes	11.62	106	218980	37.588	ug/l	99
69) o-Xylene	11.95	106	106195	19.079	ug/l	99
70) Styrene	11.96	104	171202	19.039	ug/l	99
71) Bromoform	12.13	173	32523	18.096	ug/l #	100
73) Isopropylbenzene	12.25	105	284608	19.562	ug/l	99
74) N-amyl acetate	12.07	43	96205	18.214	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	66446	18.629	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	53629m	17.031	ug/l	
77) Bromobenzene	12.53	156	64733	19.008	ug/l	99
78) n-propylbenzene	12.59	91	328306	19.267	ug/l	99
79) 2-Chlorotoluene	12.67	91	192218	19.472	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	227152	19.632	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	14586	15.811	ug/l	84
82) 4-Chlorotoluene	12.77	91	192459	19.430	ug/l	99
83) tert-Butylbenzene	12.99	119	201658	19.963	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	228203	19.561	ug/l	100
85) sec-Butylbenzene	13.17	105	275141	19.862	ug/l	99
86) p-Isopropyltoluene	13.29	119	225894	19.492	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	112824	19.030	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	111757	18.830	ug/l	98
89) n-Butylbenzene	13.61	91	192159	18.621	ug/l	99
90) Hexachloroethane	13.87	117	38016	18.689	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	109015	18.842	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	9045	17.838	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
Data File : VN052287.D
Acq On : 13 Nov 2018 15:30
Operator : MD\SY
Sample : VN1113WBSD02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM

Quant Time: Nov 14 01:22:17 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	43758	19.126	ug/l	98
94) Hexachlorobutadiene	15.01	225	24600	19.787	ug/l	98
95) Naphthalene	15.13	128	99217	17.596	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	41869	19.356	ug/l	98

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

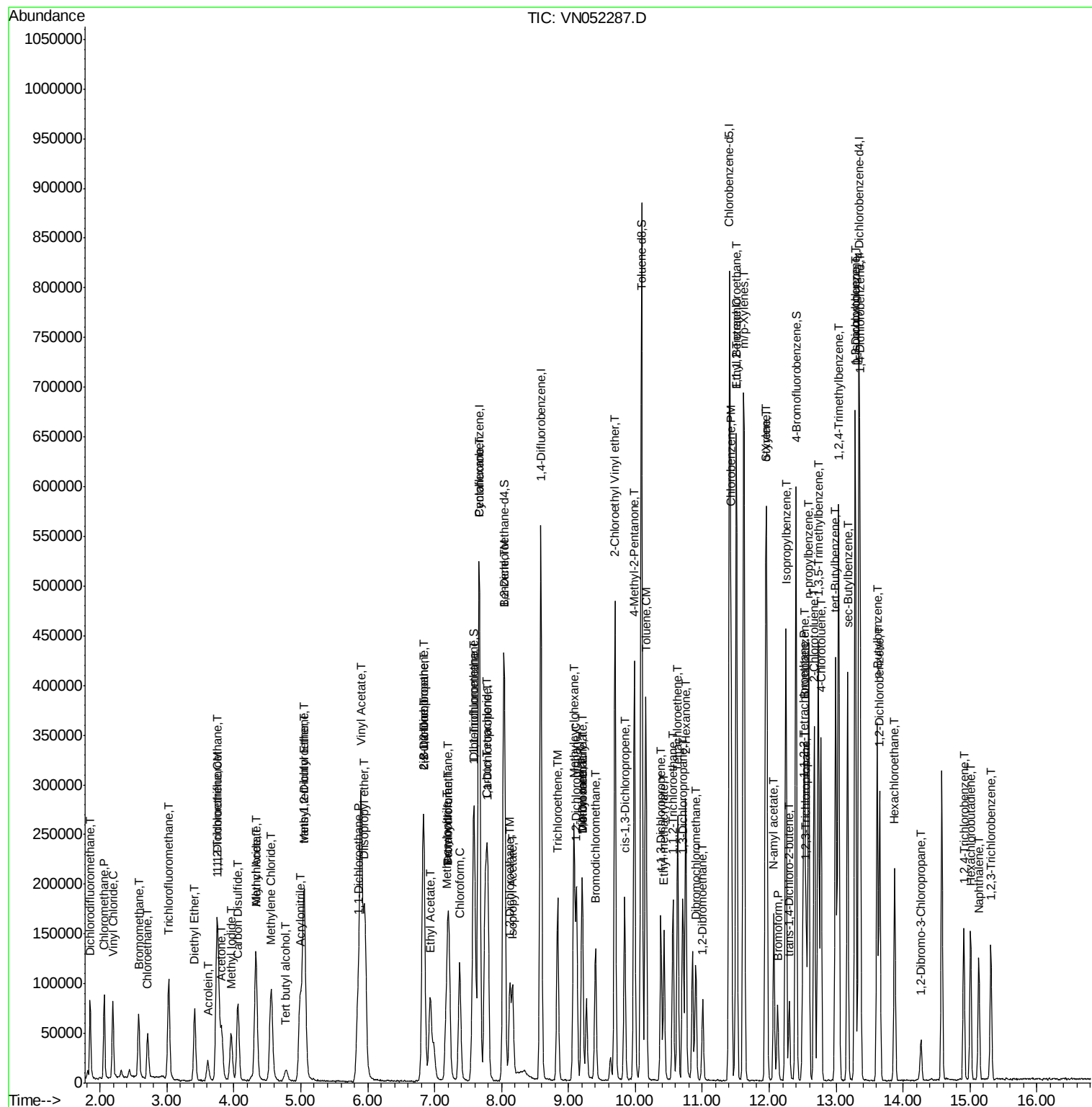
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052287.D
 Acq On : 13 Nov 2018 15:30
 Operator : MD\SY
 Sample : VN1113WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

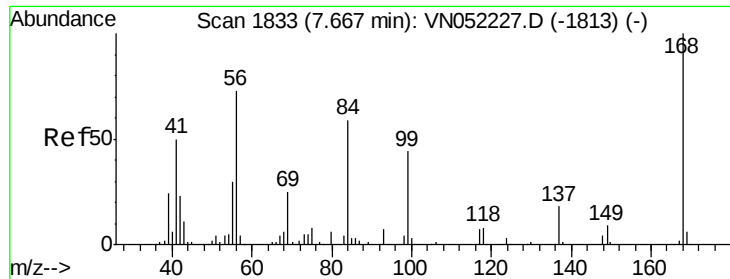
Instrument :
 MSVOA_N
 Client Sample Id :
 VN1113WBSD02

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:28 AM

Quant Time: Nov 14 01:22:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion:168 Resp: 275158

Ion Ratio Lower Upper

168 100

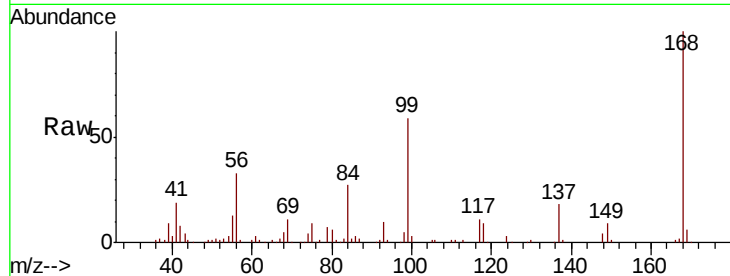
99 58.6 44.7 67.1

Manual Integrations

APPROVED

MMDadoda

11/14/2018 11:10:28 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

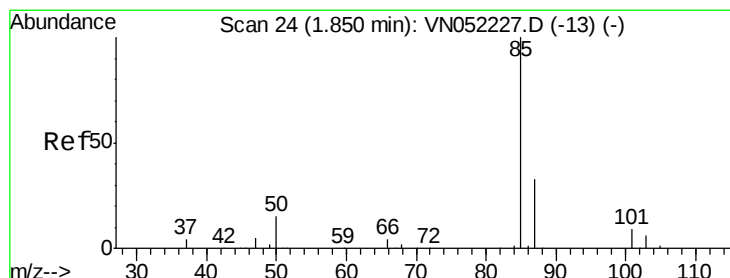
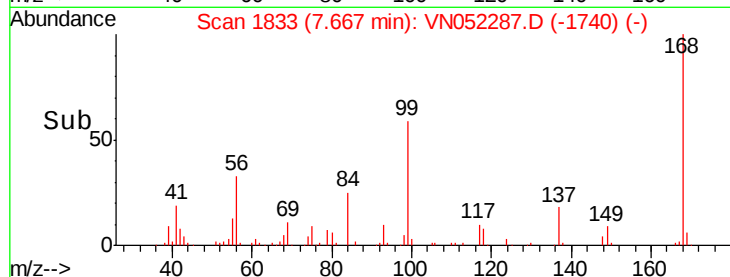
7.67

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.808 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN052287.D

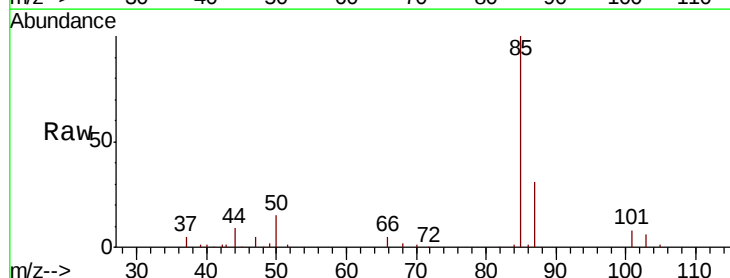
Acq: 13 Nov 2018 15:30

Tgt Ion: 85 Resp: 59254

Ion Ratio Lower Upper

85 100

87 31.3 16.7 50.0



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.85

50000

40000

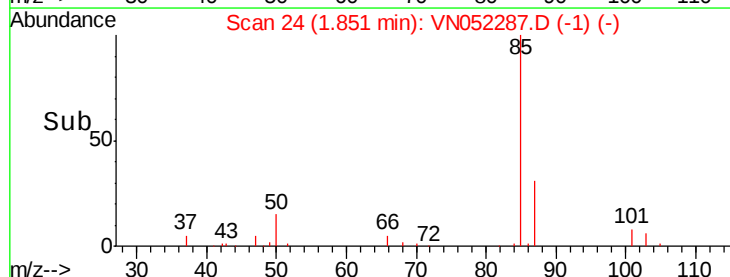
30000

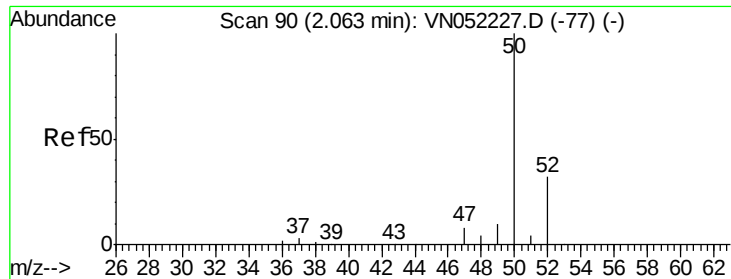
20000

10000

0

Time-->





#3

Chloromethane

Concen: 18.745 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 50 Resp: 78287

Ion Ratio Lower Upper

50 100

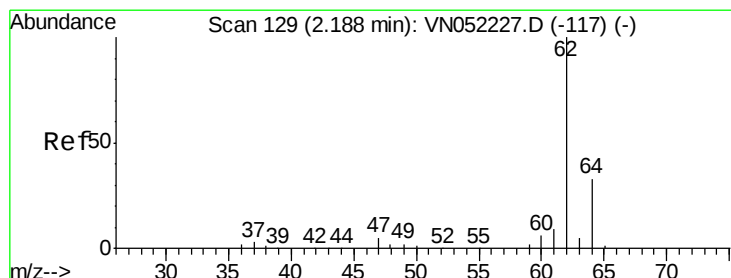
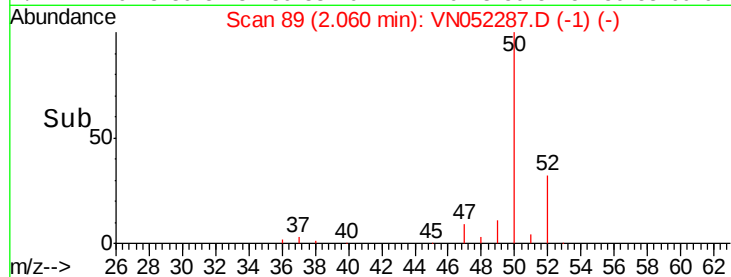
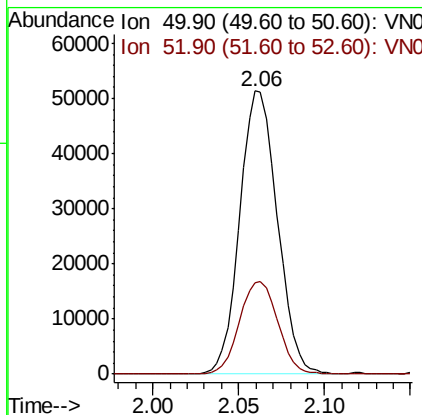
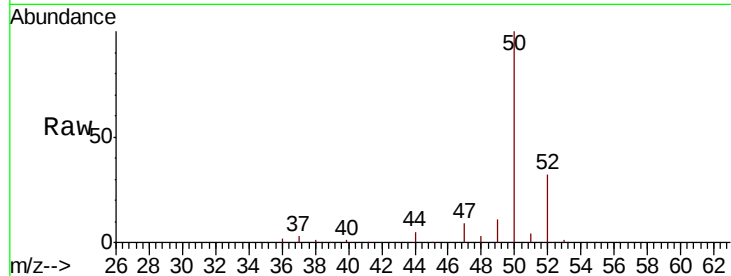
52 32.4 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

11/14/2018 11:10:28 AM



#4

Vinyl Chloride

Concen: 19.791 ug/l

RT: 2.19 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN052287.D

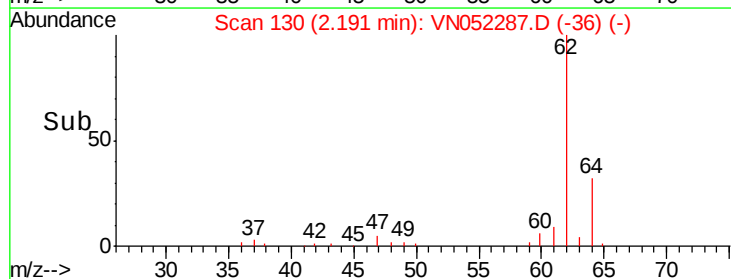
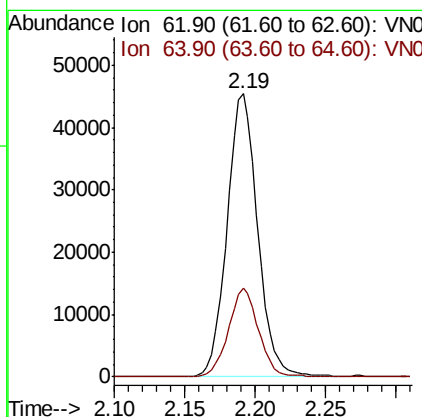
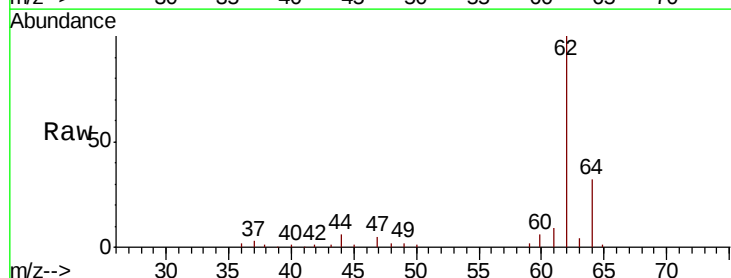
Acq: 13 Nov 2018 15:30

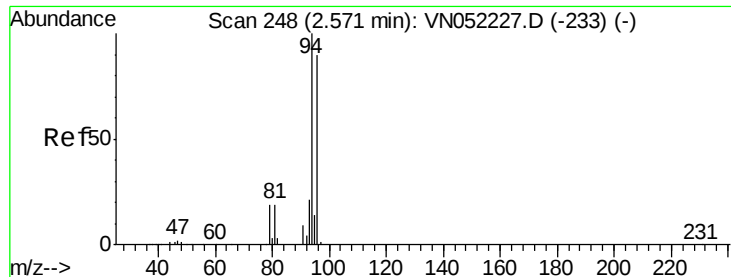
Tgt Ion: 62 Resp: 68868

Ion Ratio Lower Upper

62 100

64 31.6 26.1 39.1





#5

Bromomethane

Concen: 17.953 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 94 Resp: 39636

Ion Ratio Lower Upper

94 100

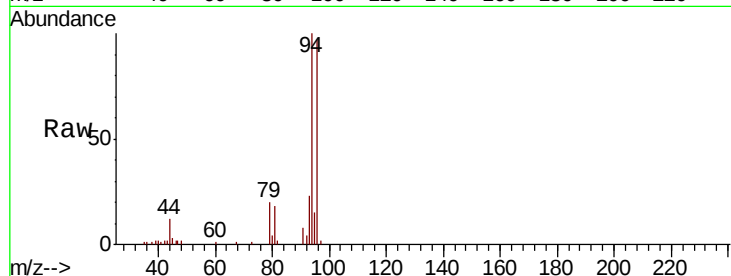
96 97.2 71.8 107.8

Manual Integrations

APPROVED

MMDadoda

11/14/2018 11:10:28 AM

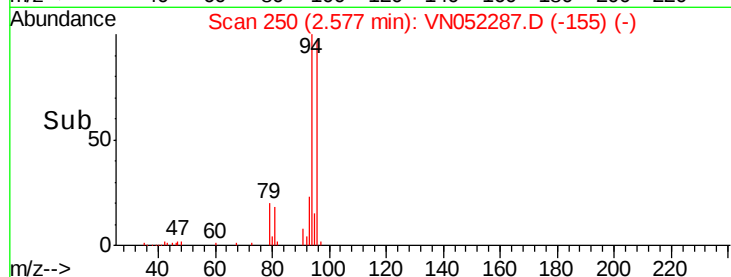


Abundance Ion 93.90 (93.60 to 94.60): VN052287.D (-155) (-)

Ion 95.90 (95.60 to 96.60): VN052287.D (-155) (-)

2.58

2.50 2.55 2.60 2.65



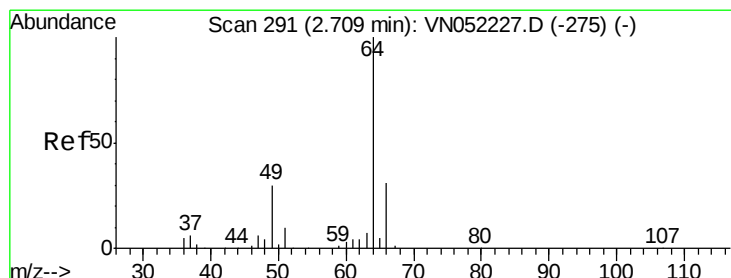
Abundance

Ion 93.90 (93.60 to 94.60): VN052287.D (-155) (-)

Ion 95.90 (95.60 to 96.60): VN052287.D (-155) (-)

2.58

2.50 2.55 2.60 2.65



#6

Chloroethane

Concen: 19.076 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052287.D

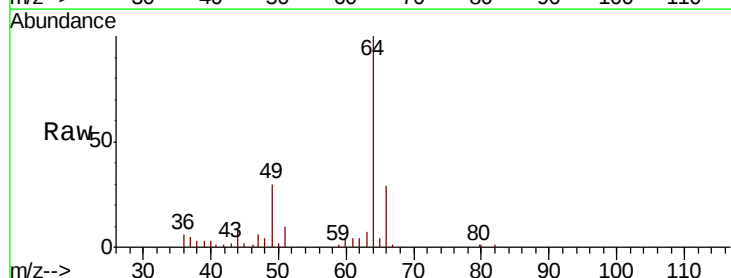
Acq: 13 Nov 2018 15:30

Tgt Ion: 64 Resp: 39418

Ion Ratio Lower Upper

64 100

66 29.0 24.6 36.8

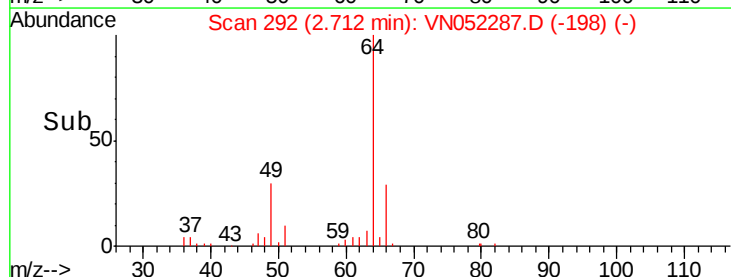


Abundance Ion 63.90 (63.60 to 64.60): VN052287.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN052287.D (-198) (-)

2.71

2.65 2.70 2.75 2.80



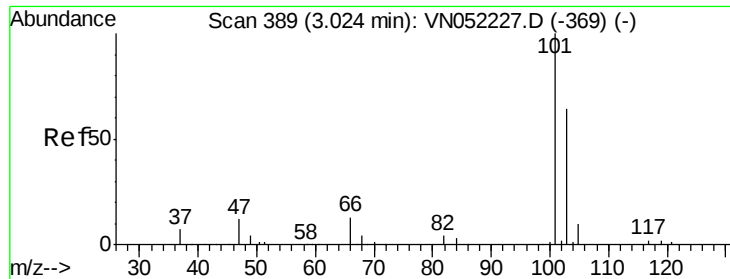
Abundance

Ion 63.90 (63.60 to 64.60): VN052287.D (-198) (-)

Ion 65.90 (65.60 to 66.60): VN052287.D (-198) (-)

2.71

2.65 2.70 2.75 2.80



#7

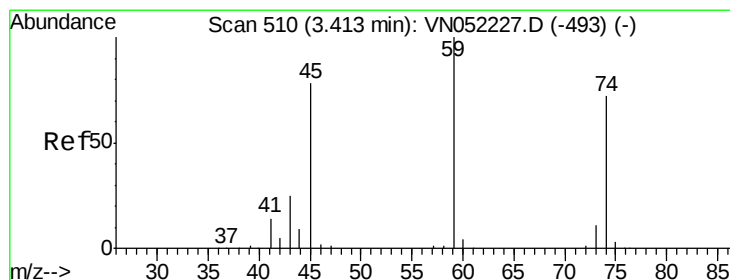
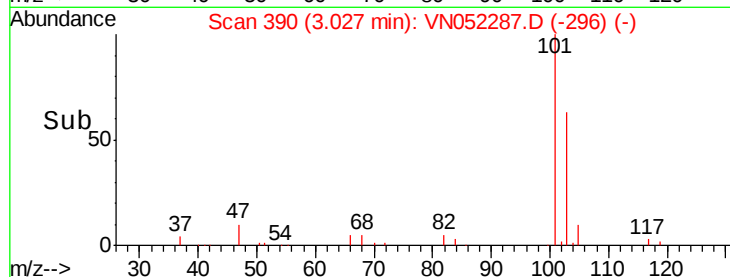
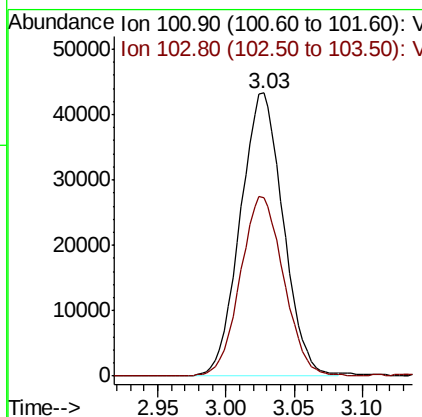
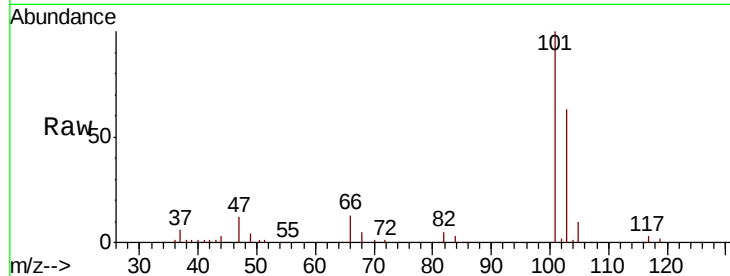
Trichlorofluoromethane
Concen: 19.520 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.0	51.2	76.8

Manual Integrations
APPROVED

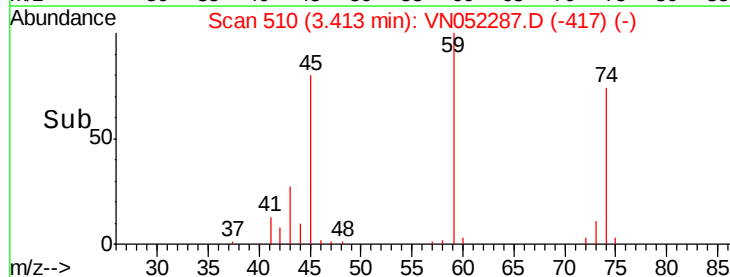
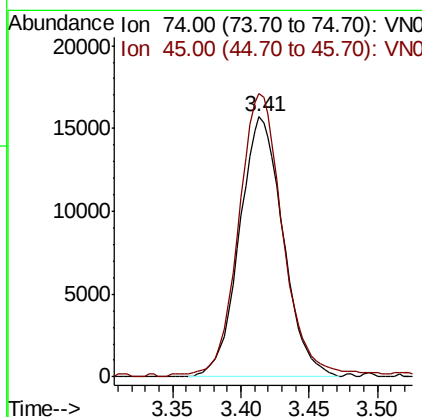
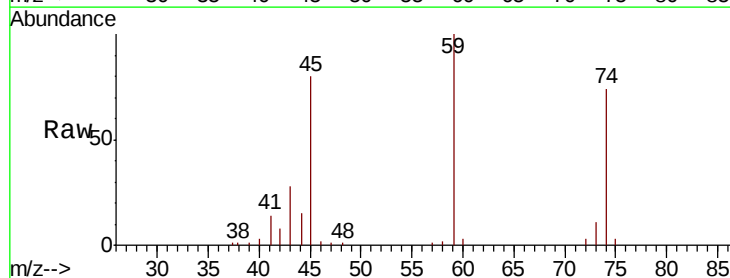
MMDadoda
11/14/2018 11:10:28 AM

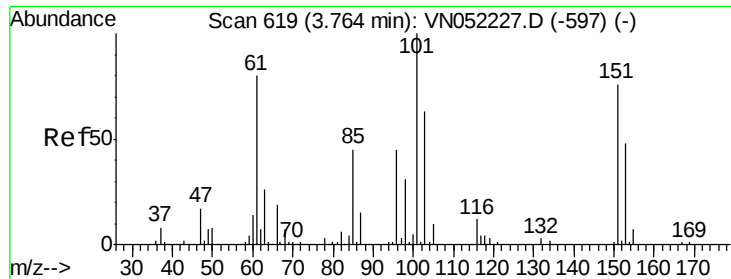


#8

Diethyl Ether
Concen: 18.305 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.8	55.5	166.7





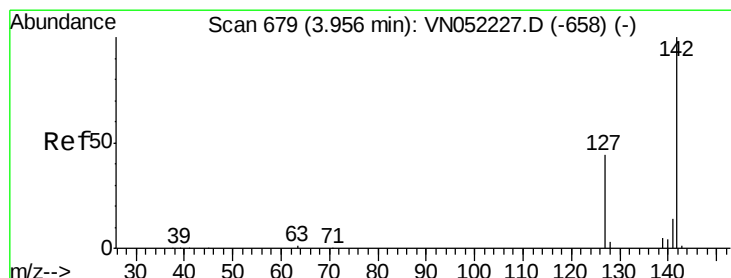
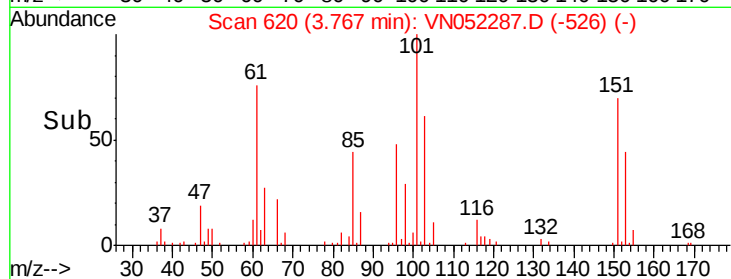
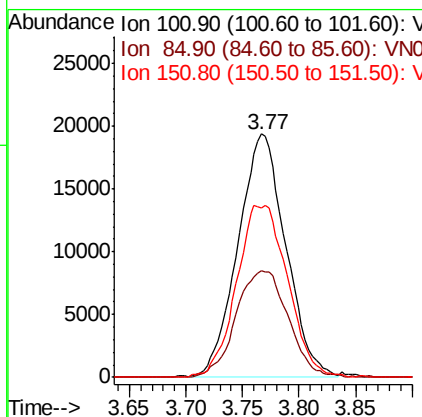
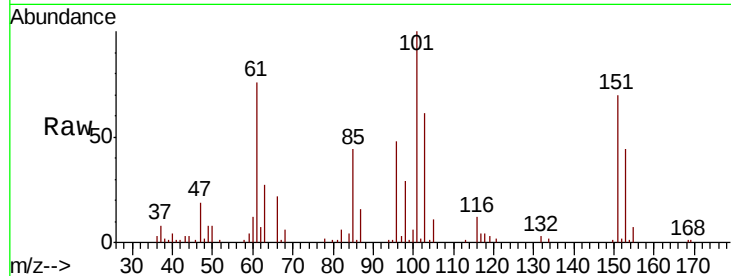
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 18.362 ug/l
 RT: 3.77 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
85	47.7	36.2	54.4
151	75.3	59.2	88.8

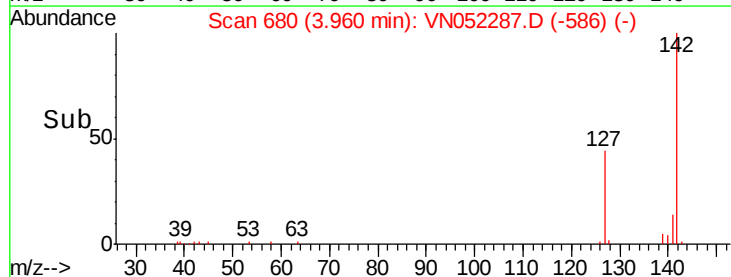
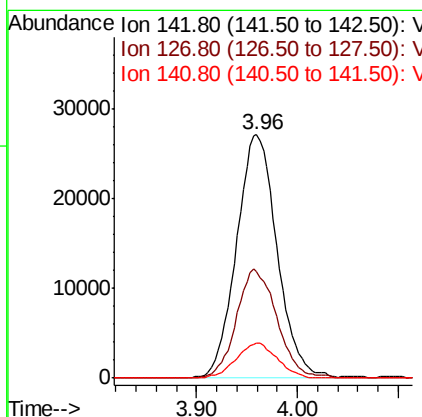
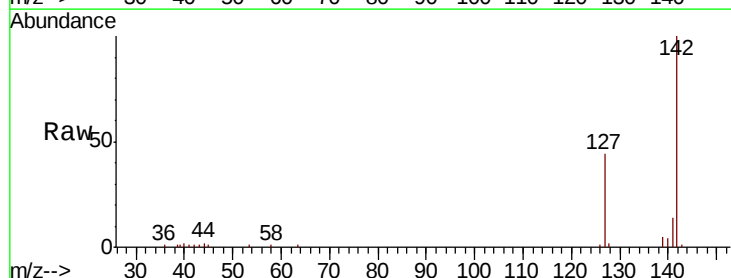
Manual Integrations
 APPROVED

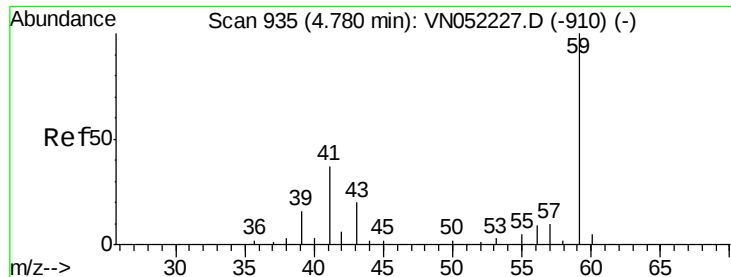
MMDadoda
 11/14/2018 11:10:28 AM



#10
 Methyl Iodide
 Concen: 18.754 ug/l
 RT: 3.96 min Scan# 680
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
142	100		
127	44.6	35.3	52.9
141	14.5	11.8	17.6





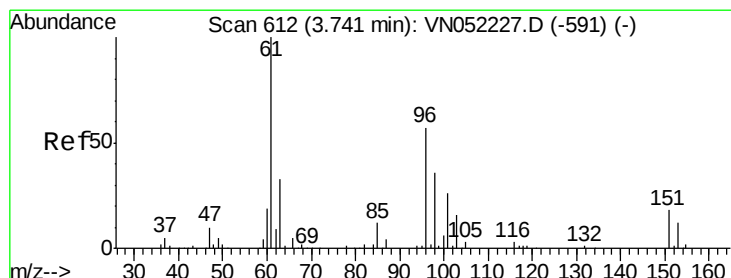
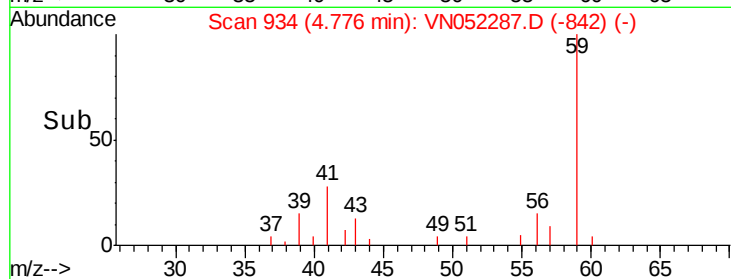
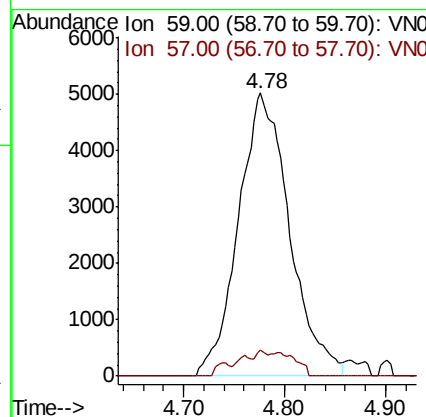
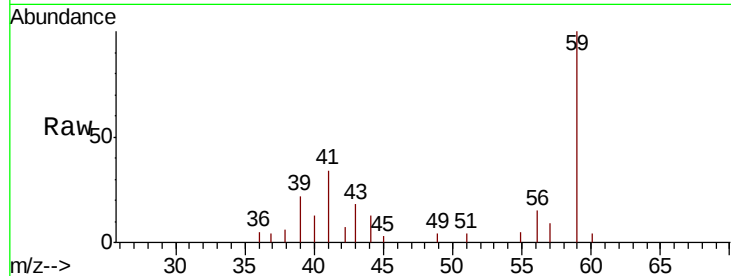
#11
Tert butyl alcohol
Concen: 91.543 ug/l
RT: 4.78 min Scan# 934
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.8	13.2#

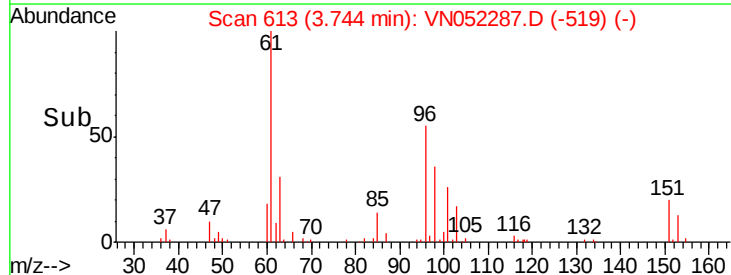
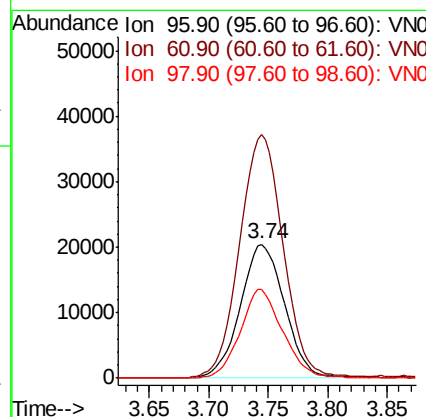
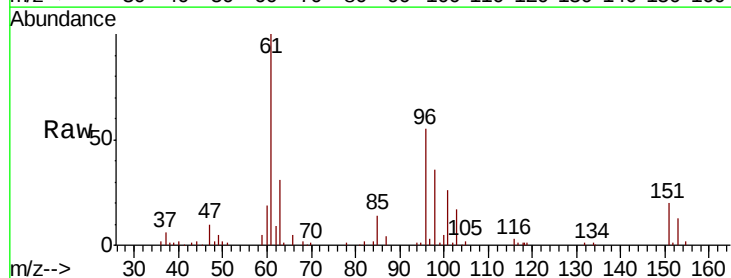
Manual Integrations
APPROVED

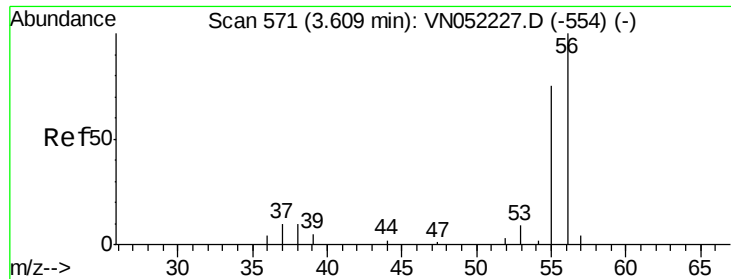
MMDadoda
11/14/2018 11:10:28 AM



#12
1,1-Dichloroethene
Concen: 18.274 ug/l
RT: 3.74 min Scan# 613
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	181.1	141.1	211.7
98	66.2	50.3	75.5





#13

Acrolein

Concen: 101.360 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 56 Resp: 23314

Ion Ratio Lower Upper

56 100

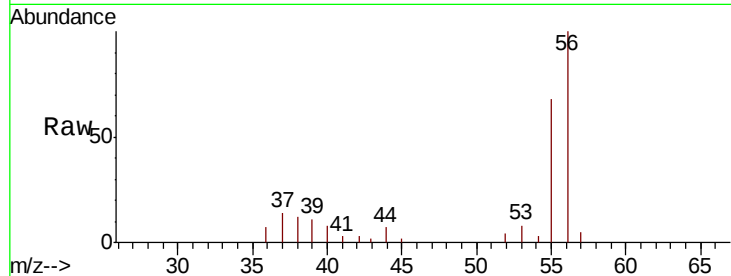
55 69.7 59.9 89.9

Manual Integrations

APPROVED

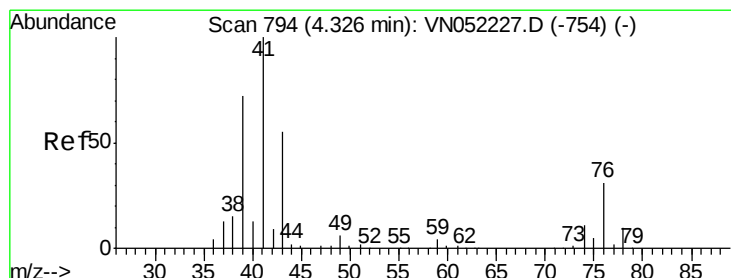
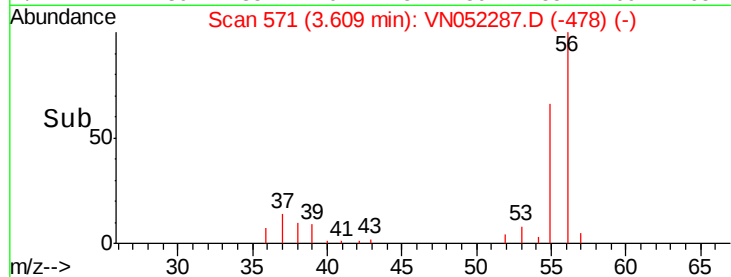
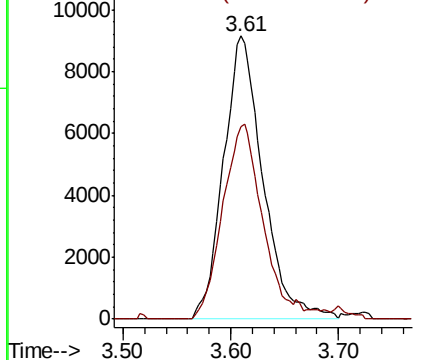
MMDadoda

11/14/2018 11:10:28 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 17.653 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

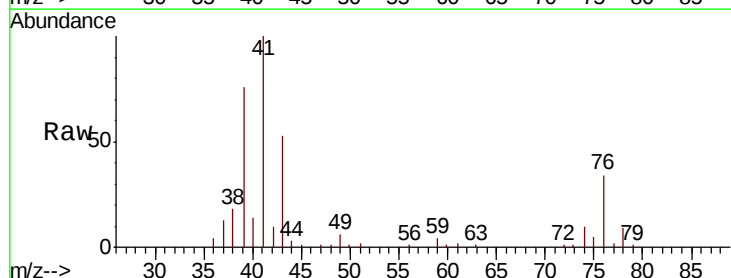
Tgt Ion: 41 Resp: 106319

Ion Ratio Lower Upper

41 100

39 71.9 55.1 82.7

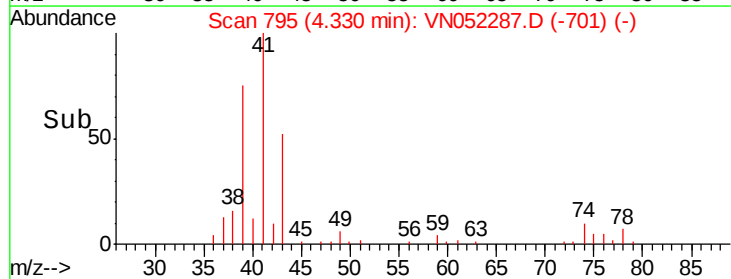
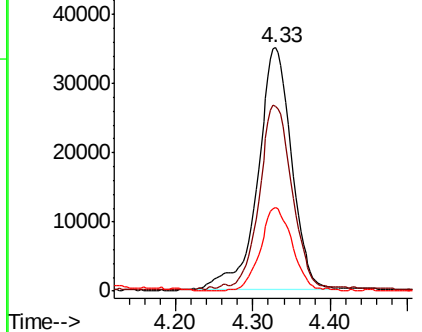
76 32.9 23.6 35.4

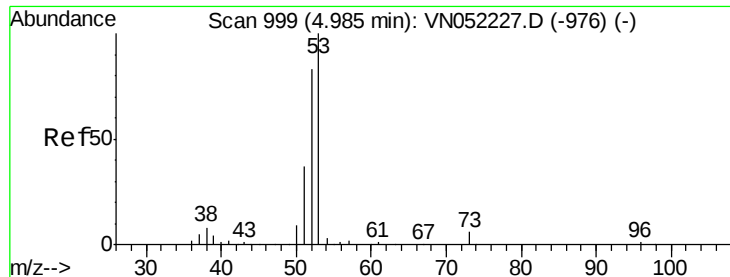


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 90.816 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

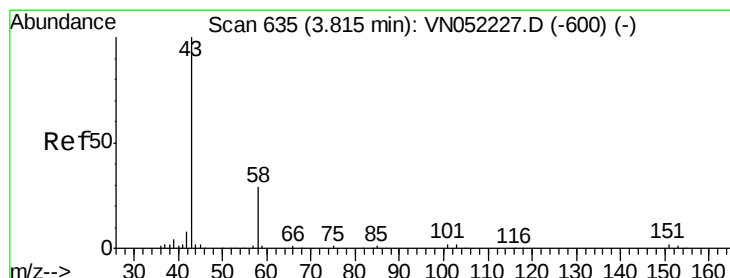
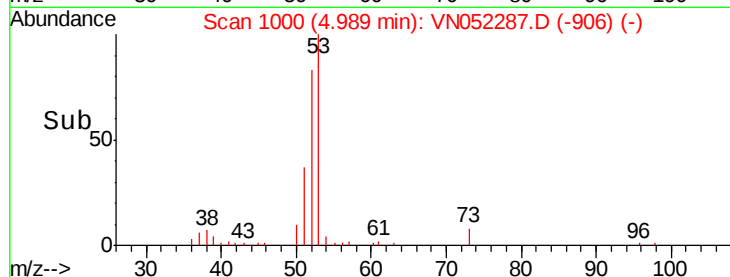
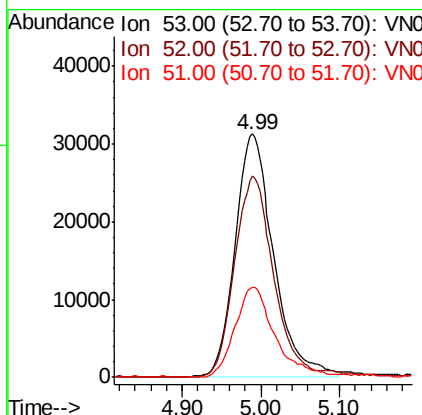
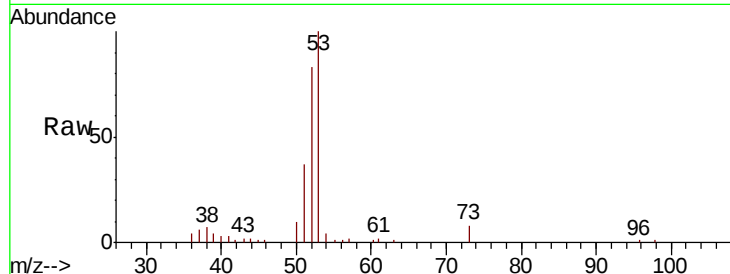
ClientSampleId :

VN1113WBSD02

Tot Ion:	53	Resp:	107667
Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.7	100.1
51	38.8	29.4	44.0

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#16

Acetone

Concen: 78.677 ug/l

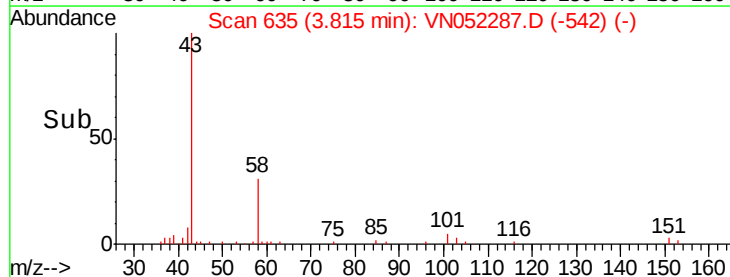
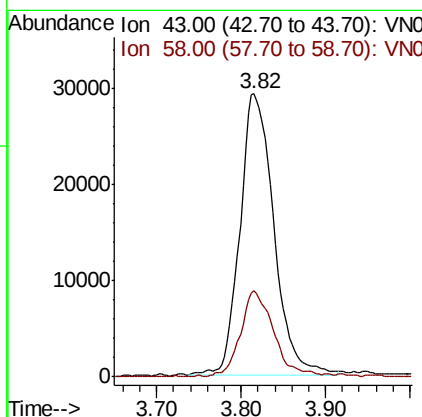
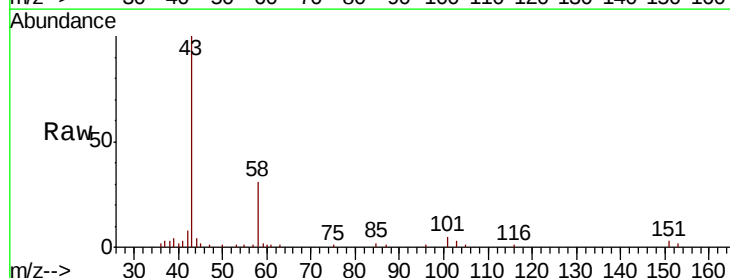
RT: 3.82 min Scan# 635

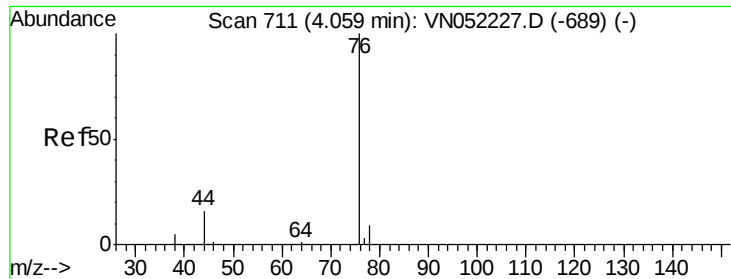
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	43	Resp:	81965
Ion	Ratio	Lower	Upper
43	100		
58	30.8	23.0	34.6





#17

Carbon Disulfide

Concen: 17.839 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 76 Resp: 148863

Ion Ratio Lower Upper

76 100

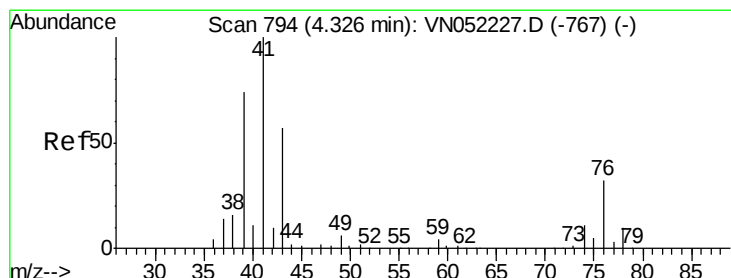
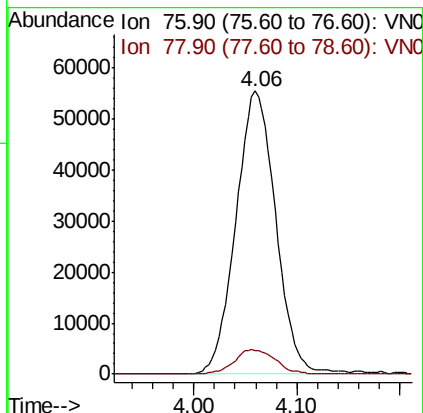
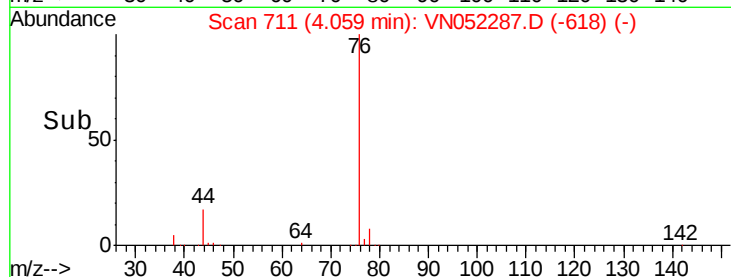
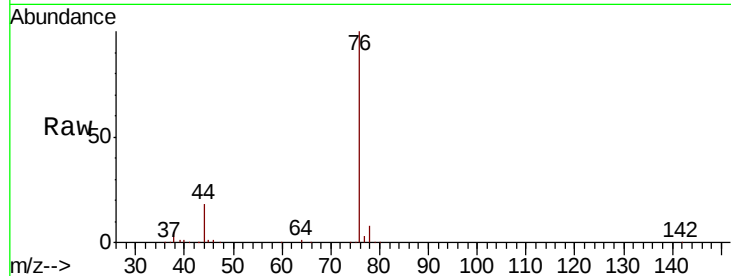
78 8.5 7.3 10.9

Manual Integrations

APPROVED

MMDadoda

11/14/2018 11:10:28 AM



#18

Methyl Acetate

Concen: 17.707 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052287.D

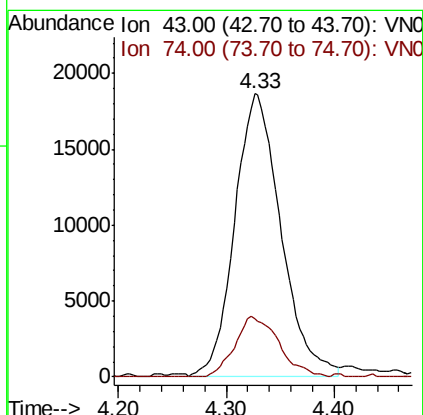
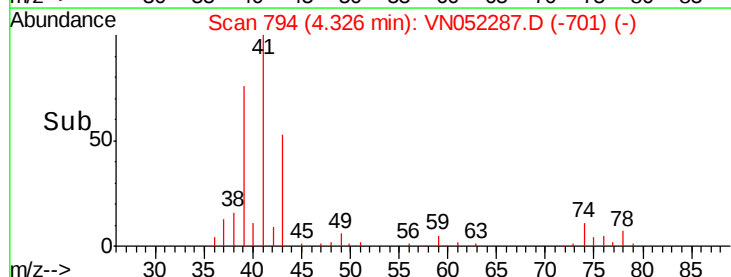
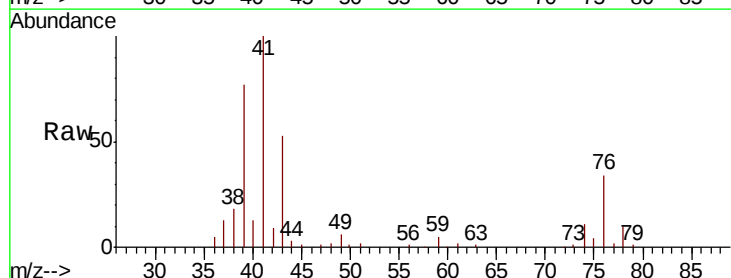
Acq: 13 Nov 2018 15:30

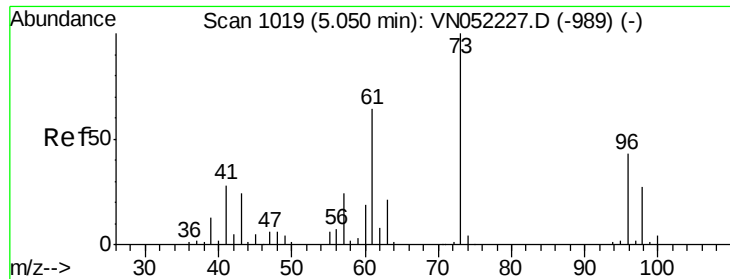
Tgt Ion: 43 Resp: 55679

Ion Ratio Lower Upper

43 100

74 20.3 16.2 24.2





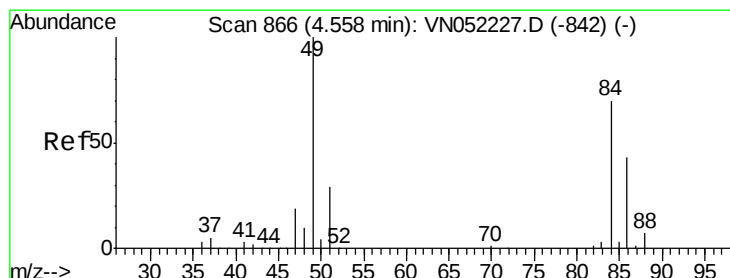
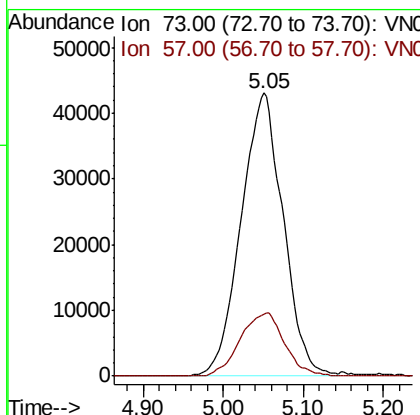
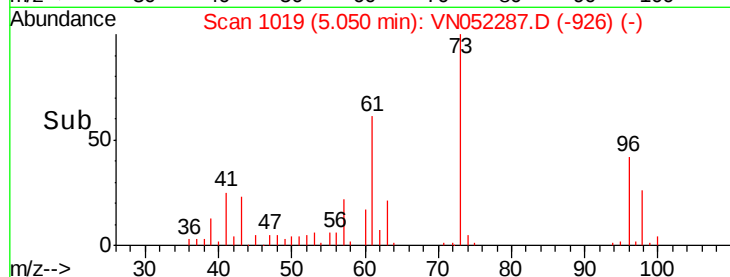
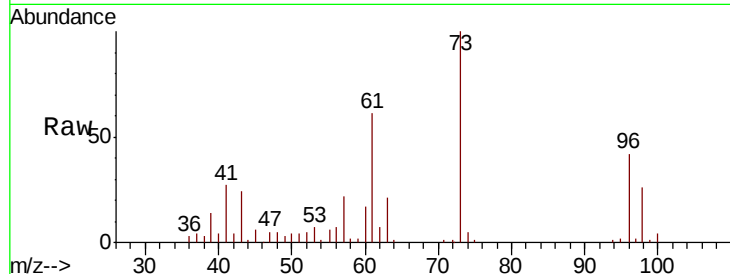
#19
Methvl tert-butvl Ether
Concen: 18.821 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 73 Resp: 154681
Ion Ratio Lower Upper
73 100
57 22.1 19.1 28.7

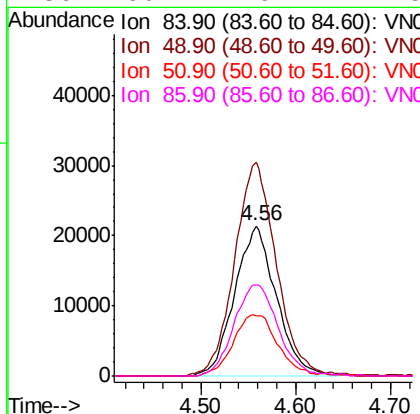
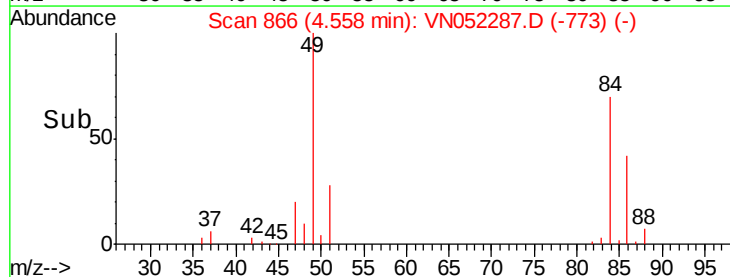
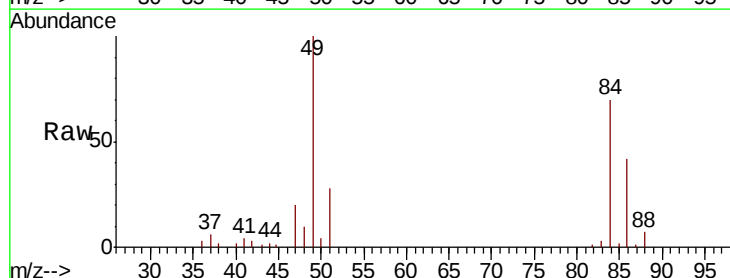
Manual Integrations
APPROVED

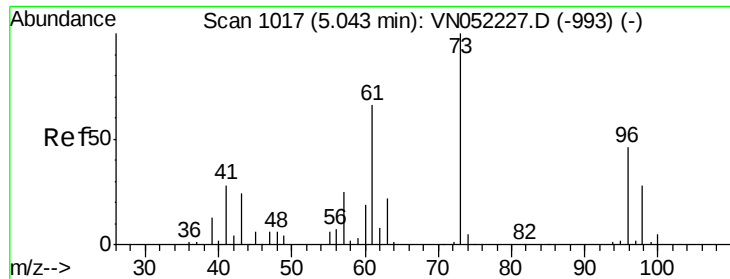
MMDadoda
11/14/2018 11:10:28 AM



#20
Methylene Chloride
Concen: 19.054 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 84 Resp: 65363
Ion Ratio Lower Upper
84 100
49 141.4 114.8 172.2
51 39.8 33.1 49.7
86 60.4 49.7 74.5





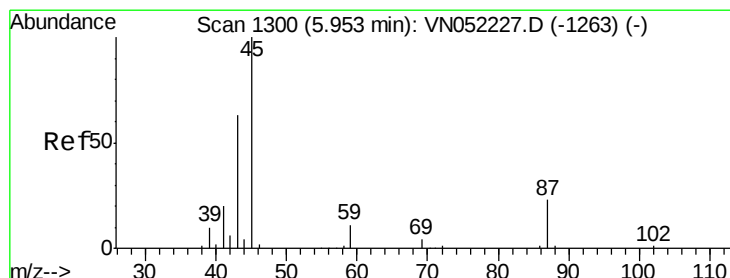
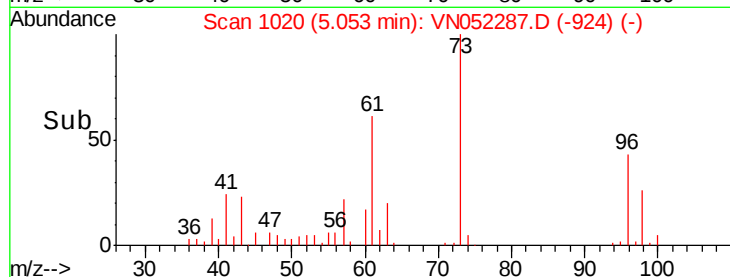
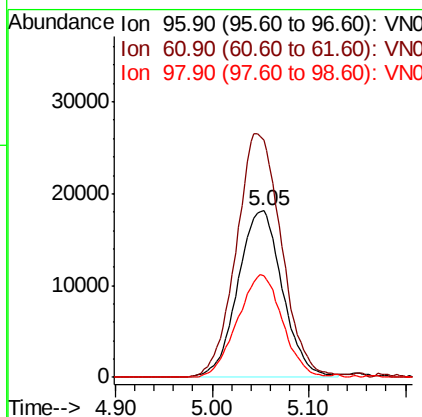
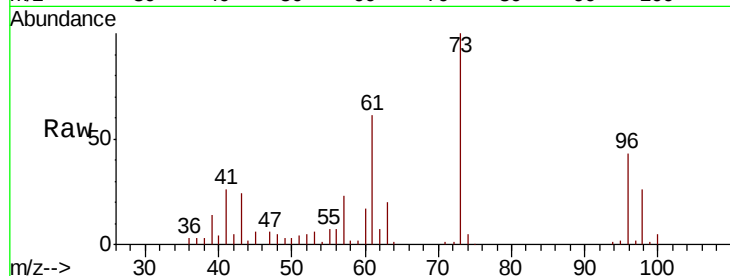
#21
trans-1,2-Dichloroethene
Concen: 18.581 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.6	115.3	172.9
98	60.9	49.5	74.3

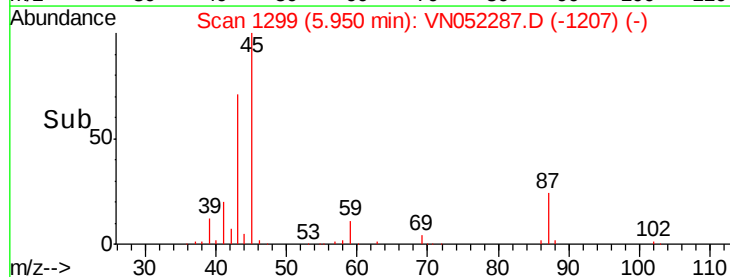
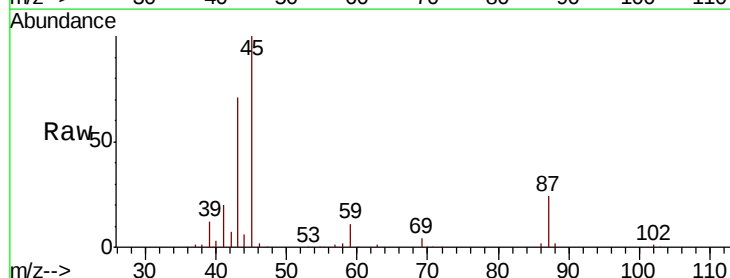
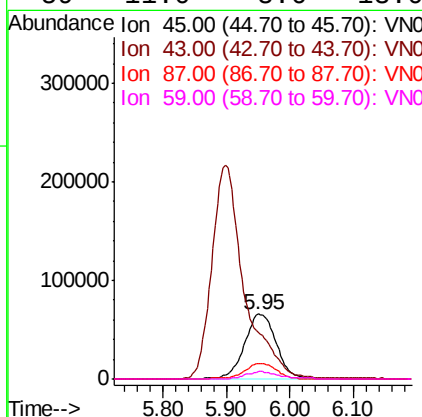
Manual Integrations
APPROVED

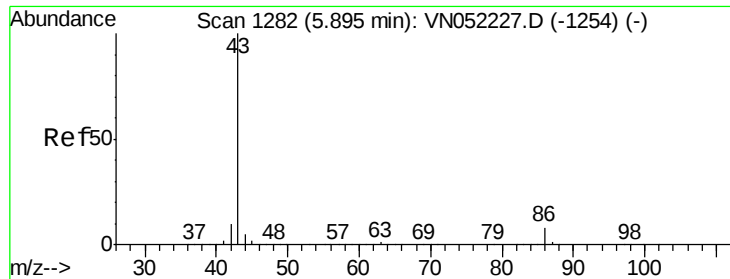
MMDadoda
11/14/2018 11:10:28 AM



#22
Diisopropyl ether
Concen: 18.951 ug/l
RT: 5.95 min Scan# 1299
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
45	100		
43	68.9	50.6	76.0
87	23.9	19.0	28.4
59	11.0	8.6	13.0





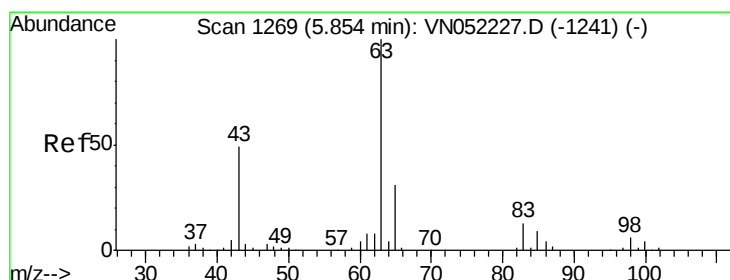
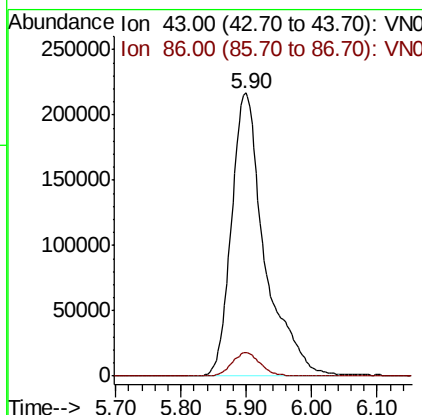
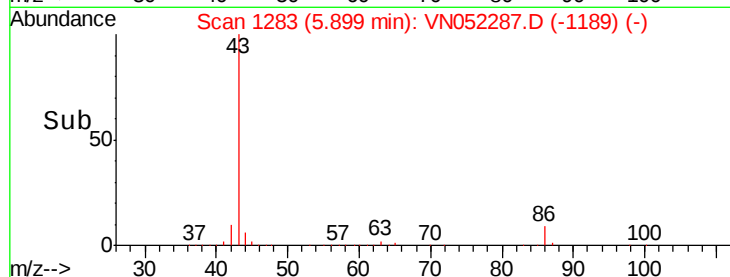
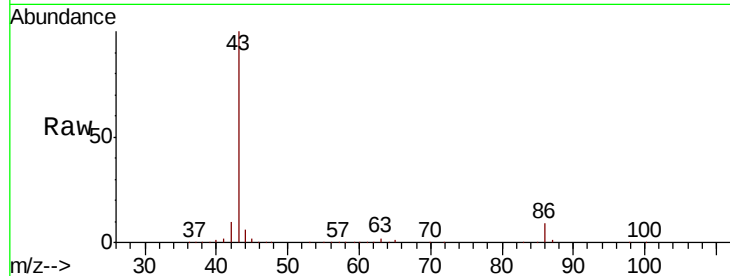
#23
 Vinyl Acetate
 Concen: 92.651 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	43	Resp	767559
Ion Ratio	100	Lower	Upper
43	100		
86	8.5	6.7	10.1

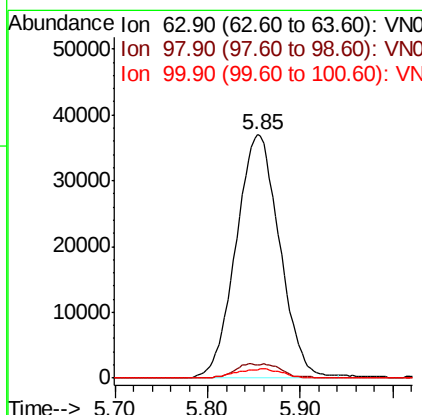
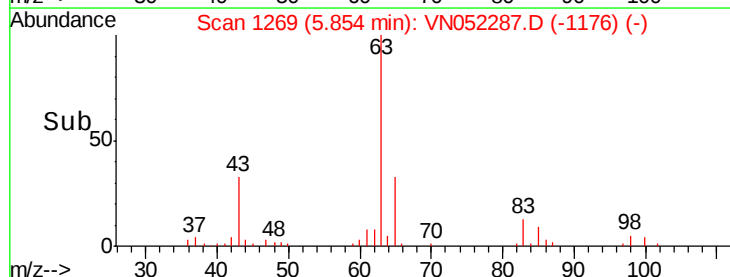
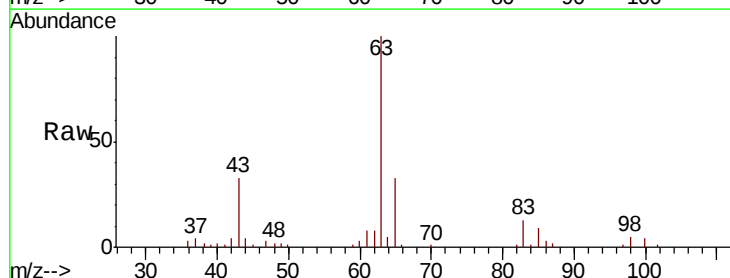
Manual Integrations
 APPROVED

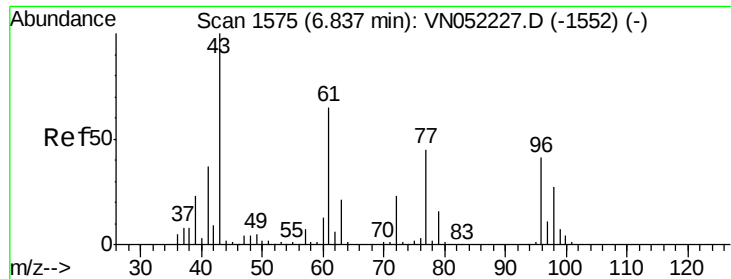
MMDadoda
 11/14/2018 11:10:28 AM



#24
 1,1-Dichloroethane
 Concen: 18.939 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	63	Resp	120775
Ion Ratio	100	Lower	Upper
63	100		
98	5.3	2.9	8.6
100	3.5	2.1	6.2





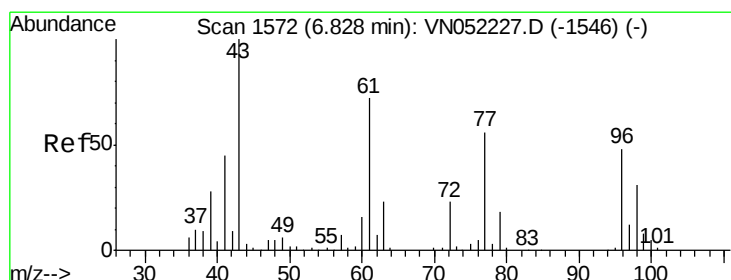
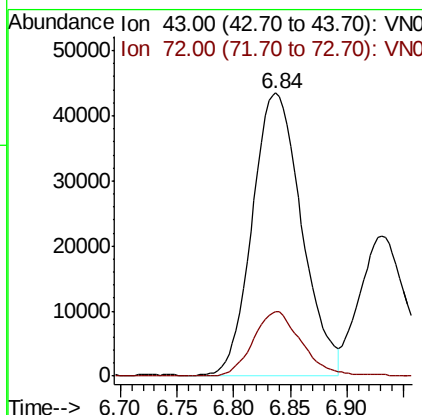
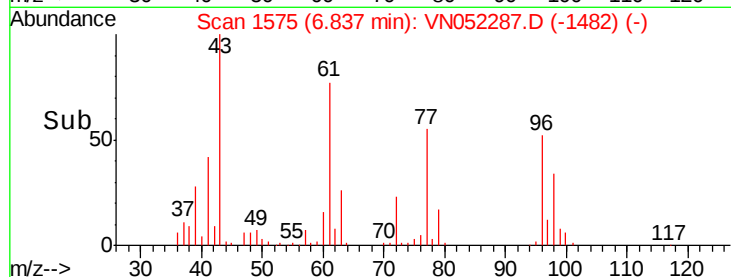
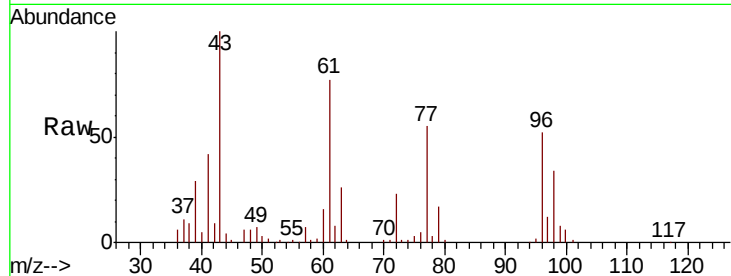
#25
2-Butanone
Concen: 82.465 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 43 Resp: 132379
Ion Ratio Lower Upper
43 100
72 22.8 18.6 27.8

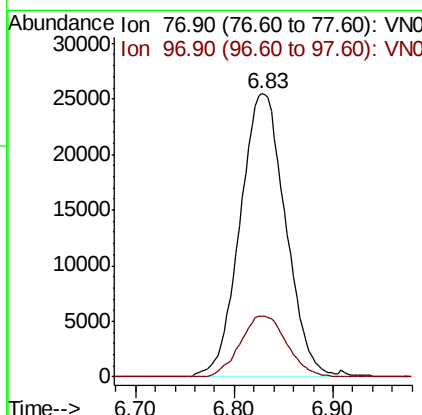
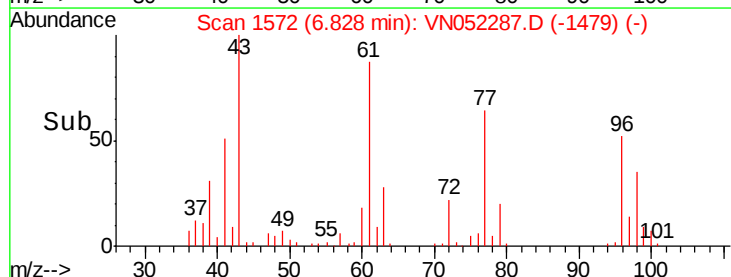
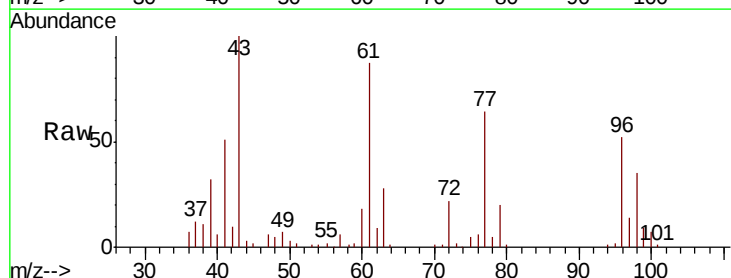
Manual Integrations
APPROVED

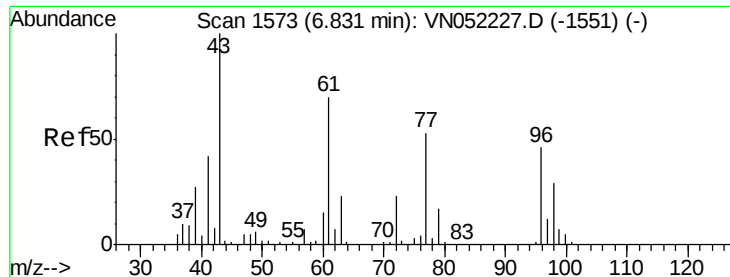
MMDadoda
11/14/2018 11:10:28 AM



#26
2,2-Dichloropropane
Concen: 17.453 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 77 Resp: 81286
Ion Ratio Lower Upper
77 100
97 22.0 11.2 33.5





#27

cis-1,2-Dichloroethene

Concen: 19.030 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

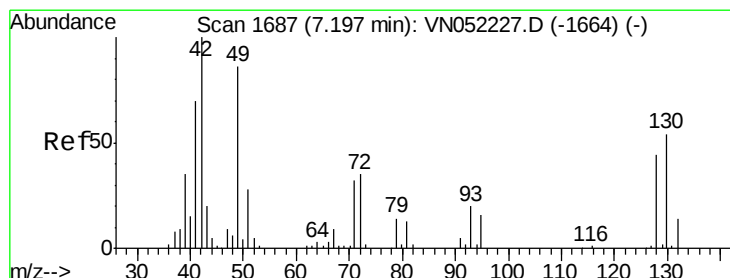
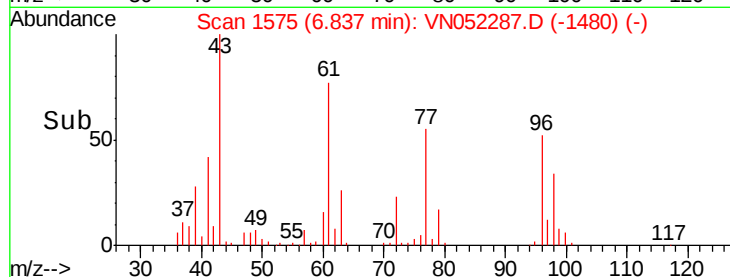
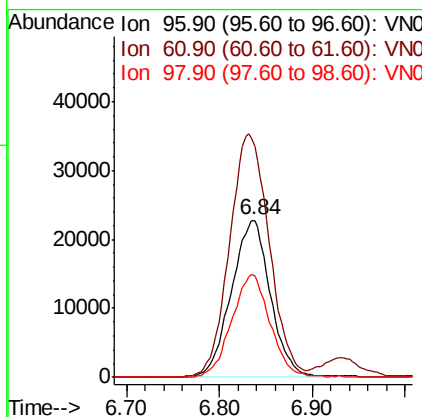
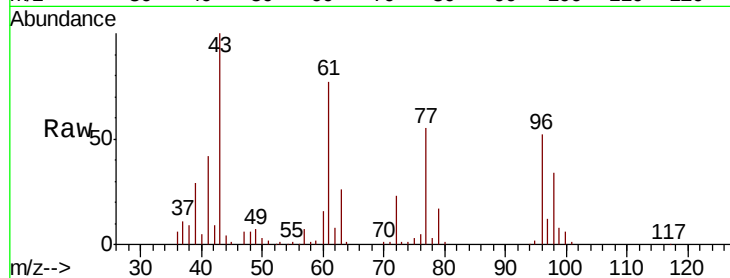
ClientSampleId :

VN1113WBSD02

Tot Ion:	96	Resp:	66599
Ion	Ratio	Lower	Upper
96	100		
61	157.7	0.0	313.4
98	64.2	0.0	129.8

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#28

Bromochloromethane

Concen: 19.057 ug/l

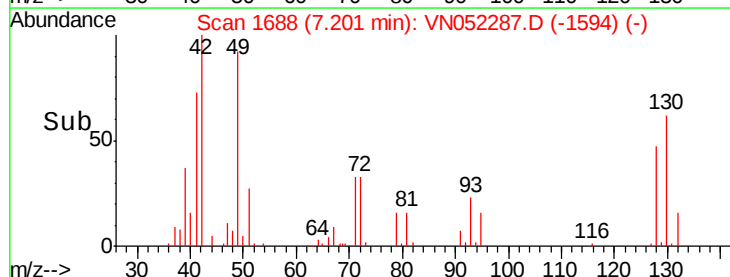
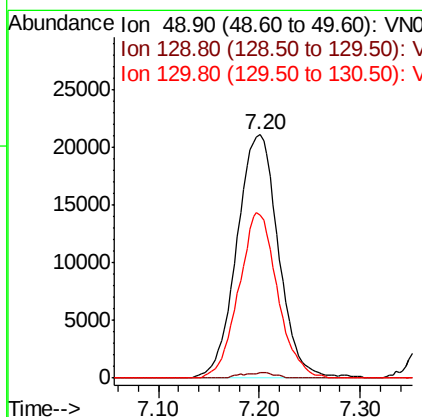
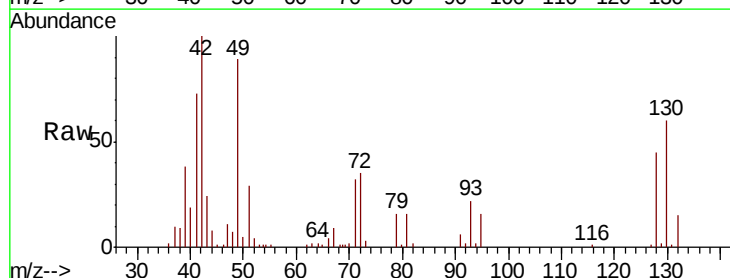
RT: 7.20 min Scan# 1688

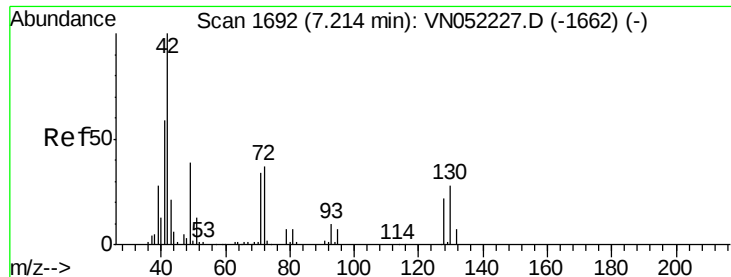
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	49	Resp:	60047
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	63.3	51.4	77.2





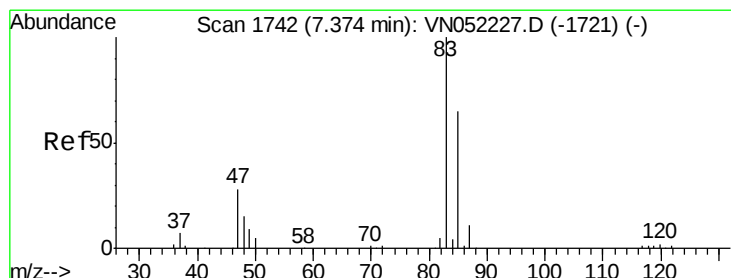
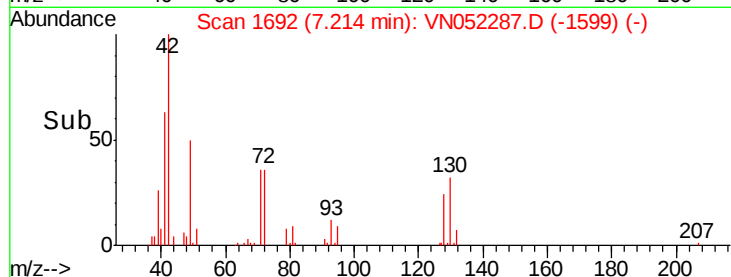
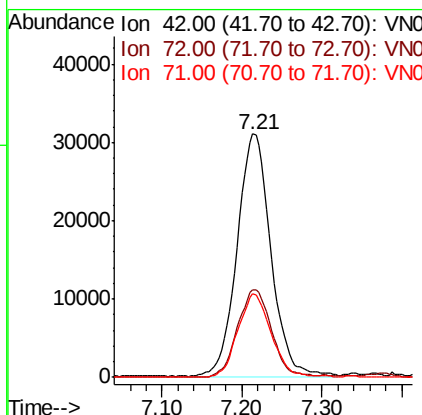
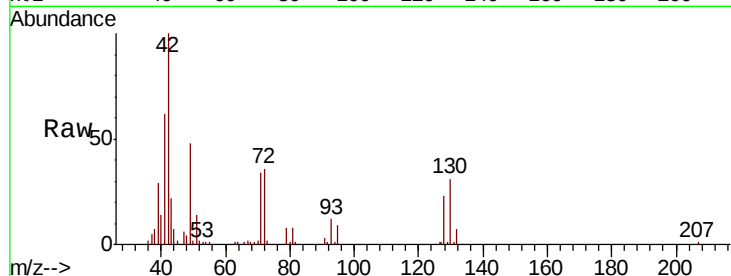
#29
Tetrahydrofuran
Concen: 85.758 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.8	28.6	43.0
71	33.5	27.1	40.7

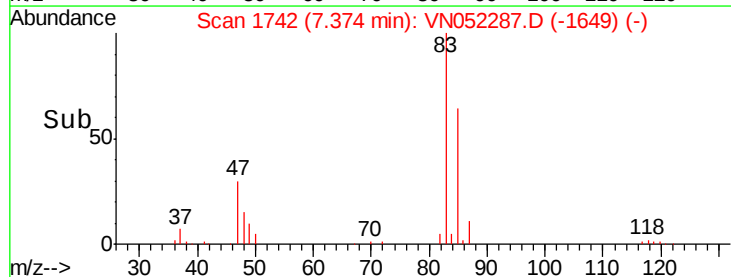
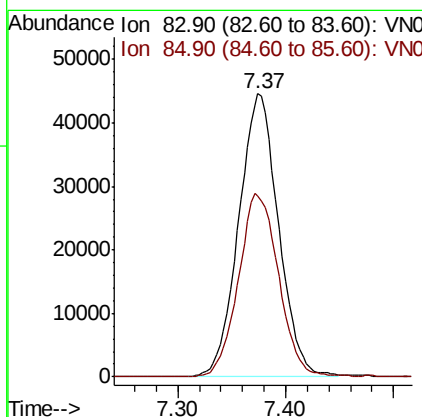
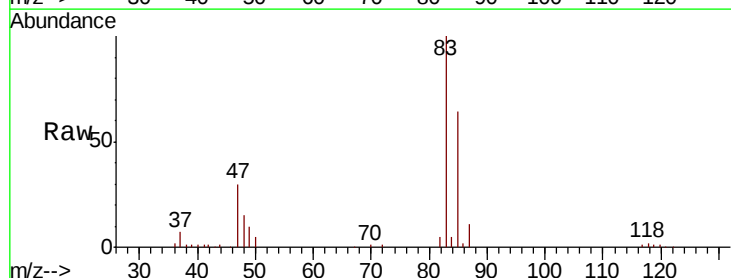
Manual Integrations
APPROVED

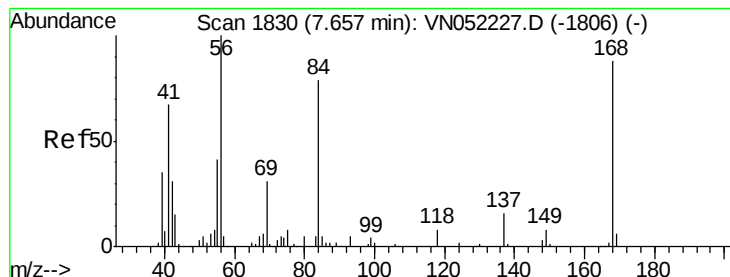
MMDadoda
11/14/2018 11:10:28 AM



#30
Chloroform
Concen: 18.962 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6





#31

Cyclohexane

Concen: 19.162 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

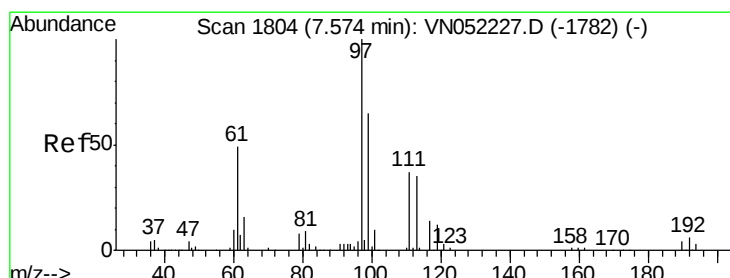
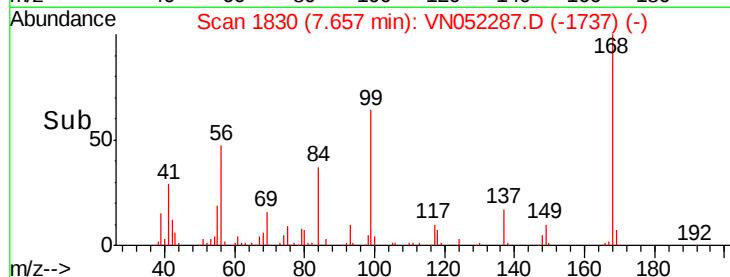
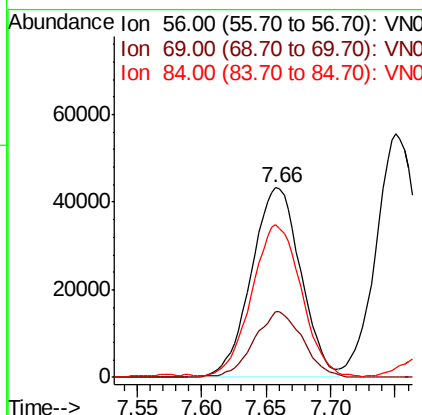
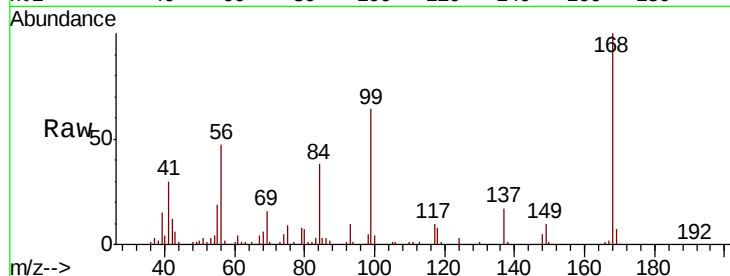
ClientSampleId :

VN1113WBSD02

Tot Ion:	56	Resp:	115473
Ion Ratio	Lower	Upper	
56	100		
69	34.4	24.8	37.2
84	79.2	63.1	94.7

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#32

1,1,1-Trichloroethane

Concen: 19.374 ug/l

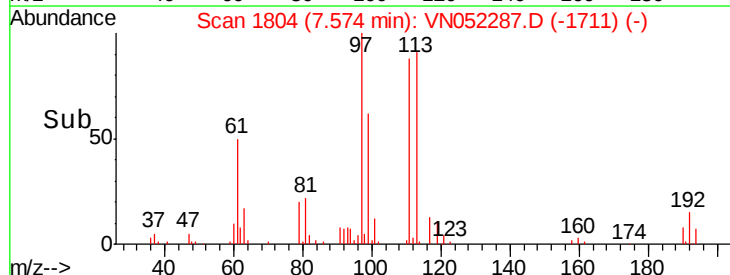
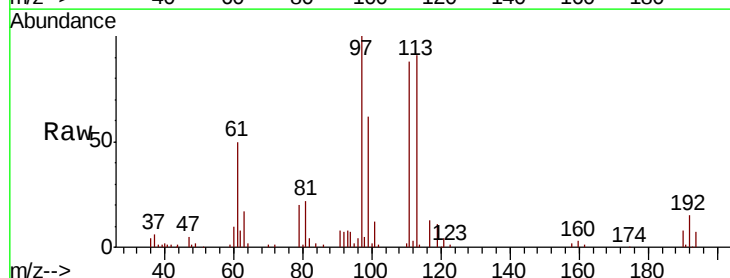
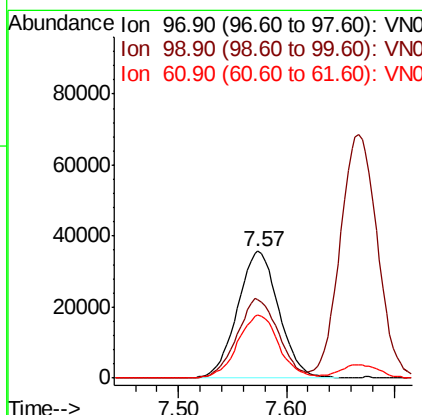
RT: 7.57 min Scan# 1804

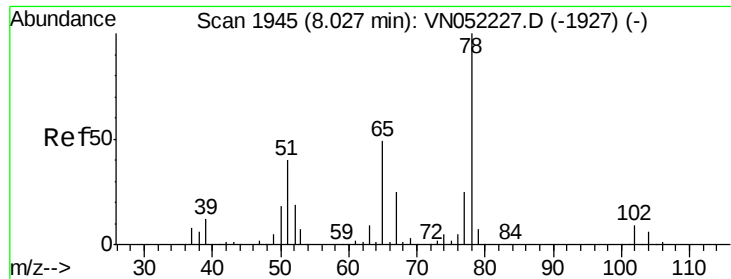
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	97	Resp:	95304
Ion Ratio	Lower	Upper	
97	100		
99	62.4	51.9	77.9
61	49.5	40.2	60.4





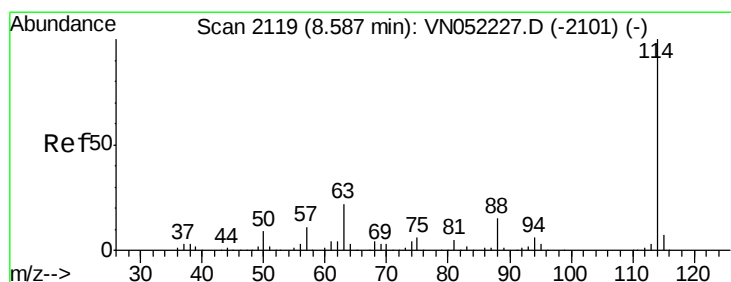
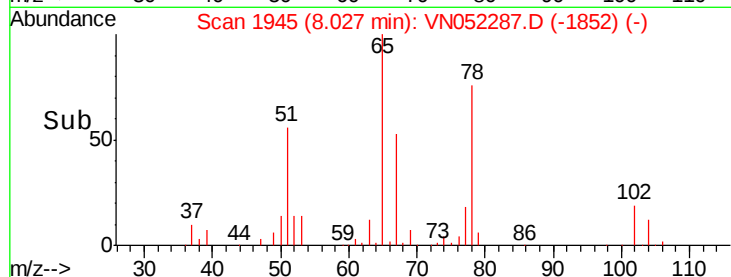
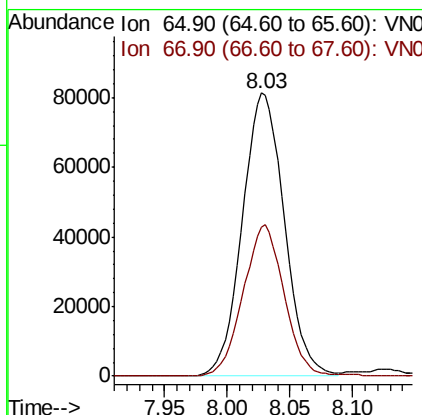
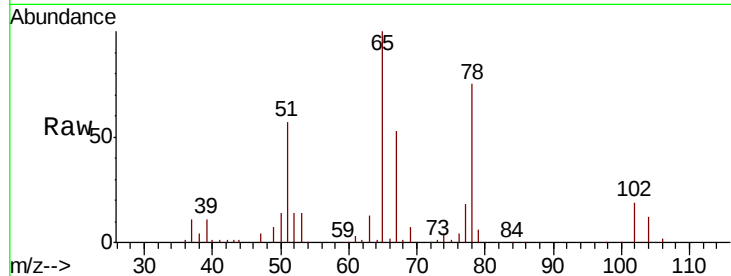
#33
 1,2-Dichloroethane-d4
 Concen: 19.374 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	189438		
67	52.3	0.0	106.6	

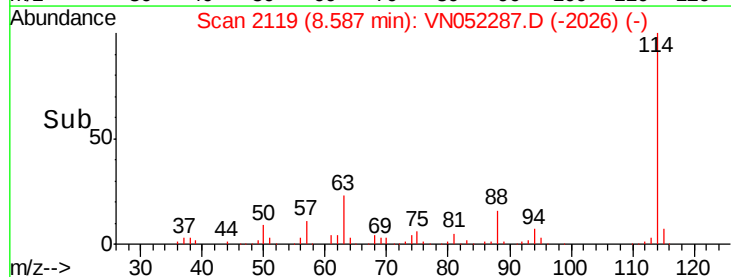
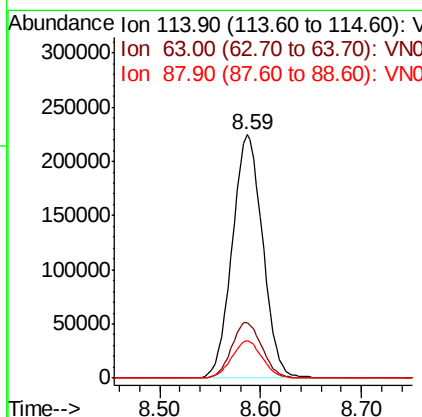
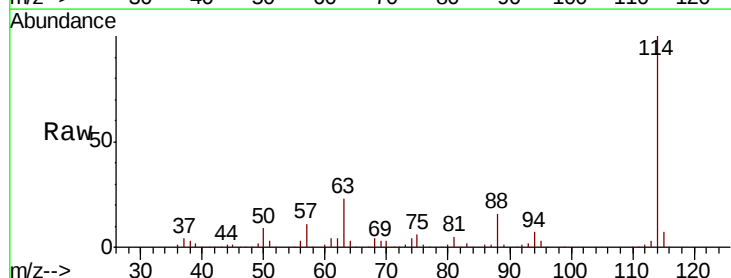
Manual Integrations
 APPROVED

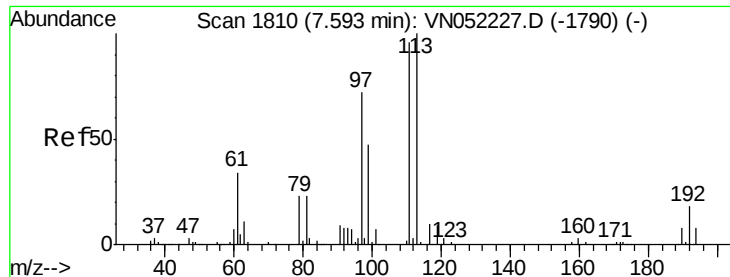
MMDadoda
 11/14/2018 11:10:28 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	470190		
63	22.9	0.0	43.4	
88	15.5	0.0	30.2	





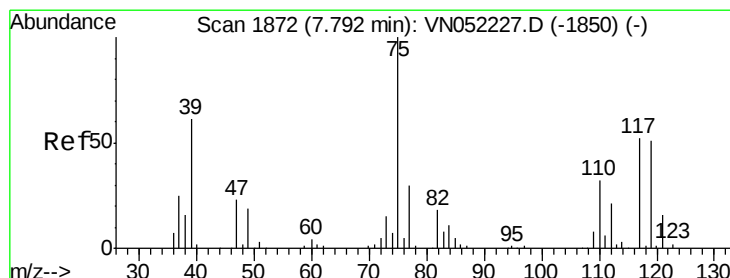
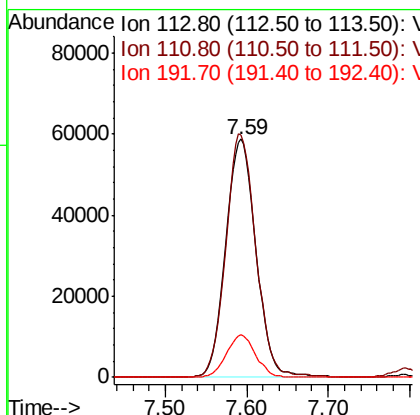
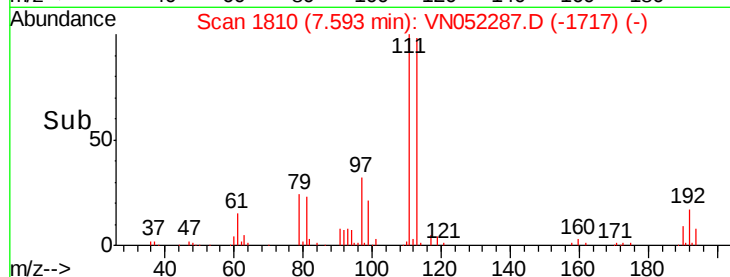
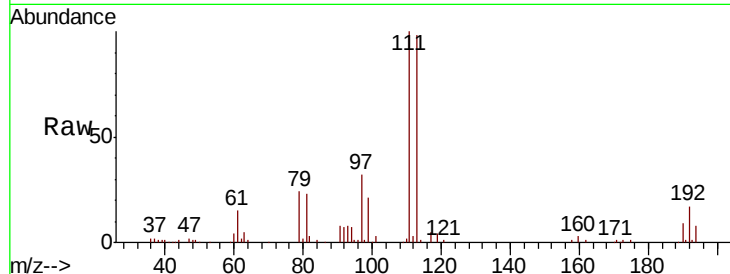
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	153624		
111	100.8	80.2	120.4	
192	17.1	14.1	21.1	

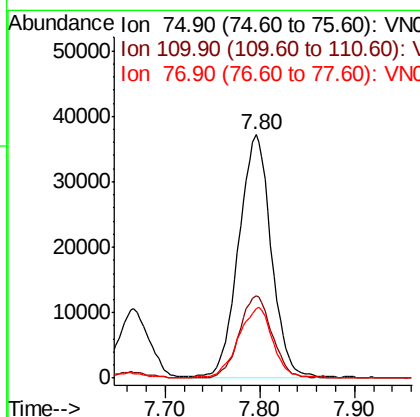
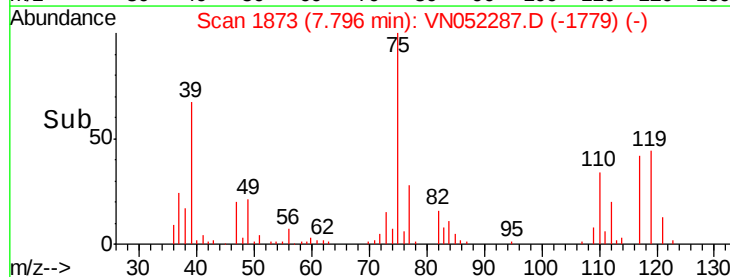
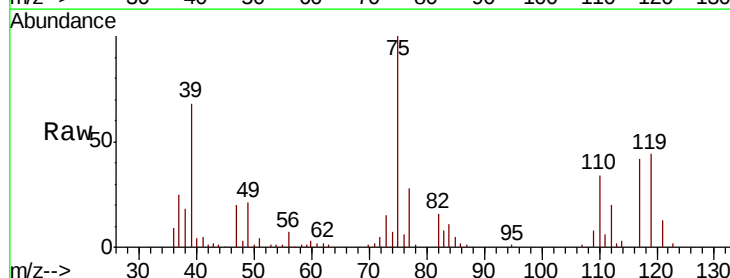
Manual Integrations
 APPROVED

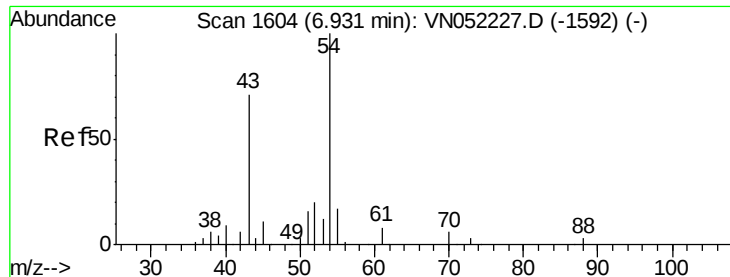
MMDadoda
 11/14/2018 11:10:28 AM



#36
 1,1-Dichloropropene
 Concen: 18.666 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	88584		
110	34.2	16.4	49.4	
77	30.7	23.9	35.9	





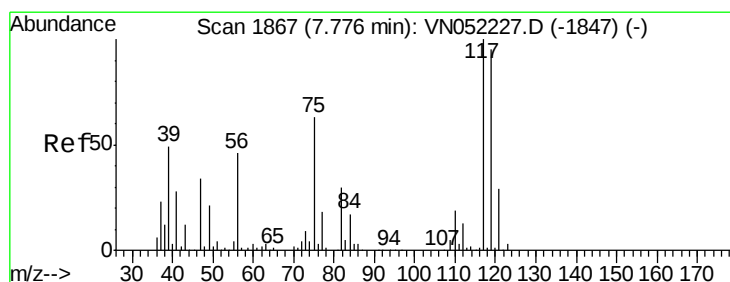
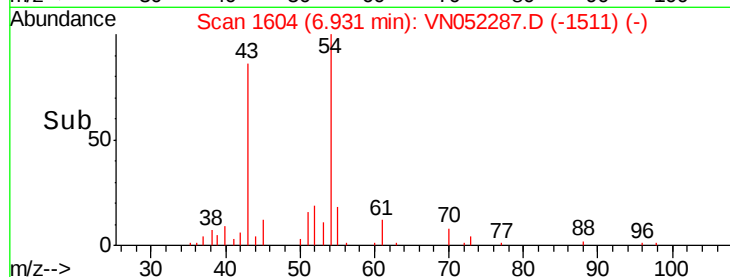
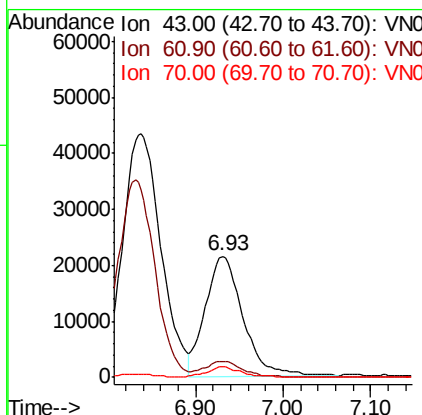
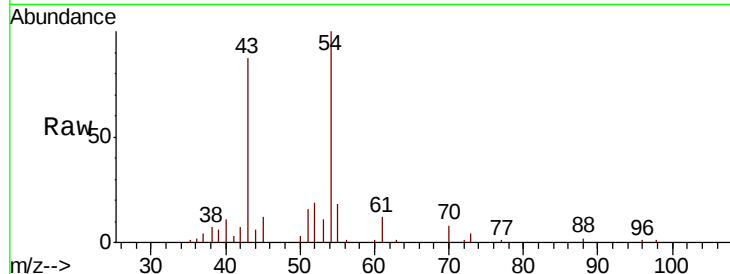
#37
Ethyl Acetate
Concen: 17.913 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN052227.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.8	10.0	15.0
70	8.0	6.9	10.3

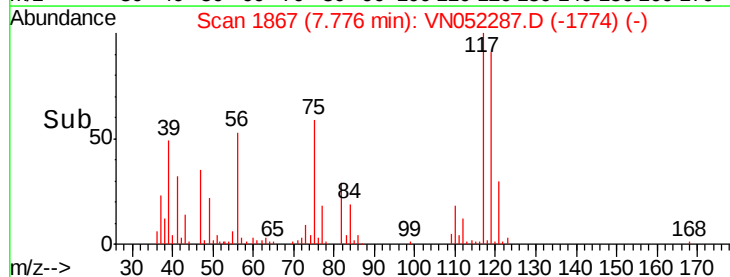
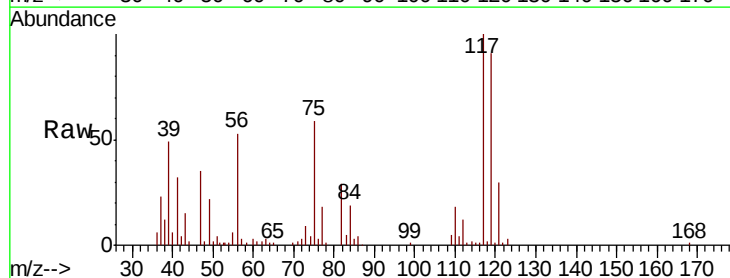
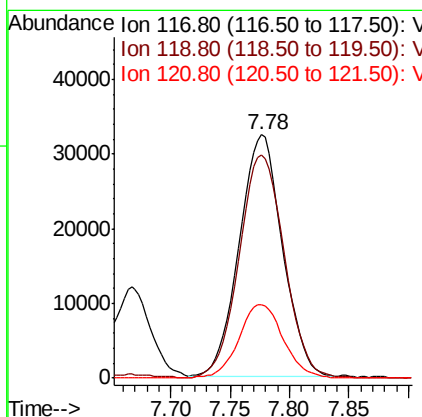
Manual Integrations
APPROVED

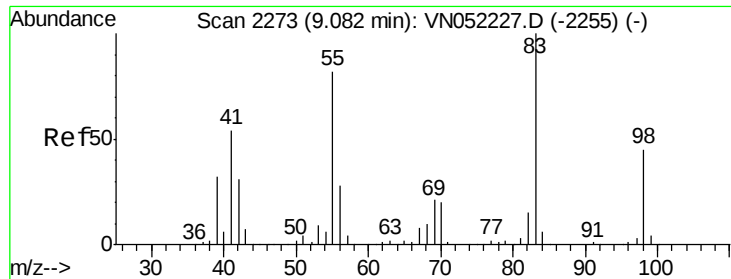
MMDadoda
11/14/2018 11:10:28 AM



#38
Carbon Tetrachloride
Concen: 18.926 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN052227.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.2	75.8	113.8
121	30.6	23.4	35.2





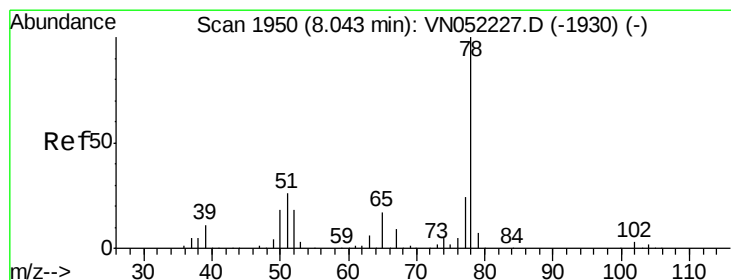
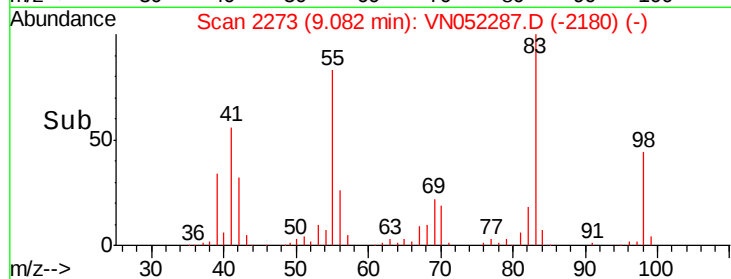
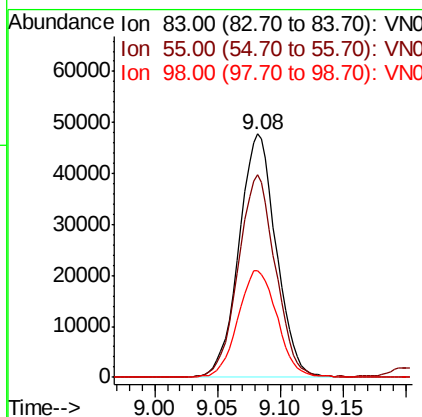
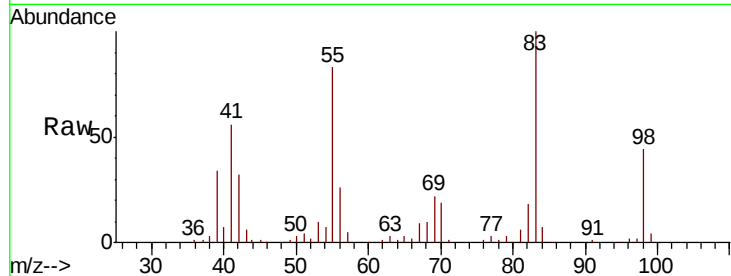
#39
Methvlcvclohexane
Concen: 18.177 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.1	65.2	97.8
98	44.0	36.3	54.5

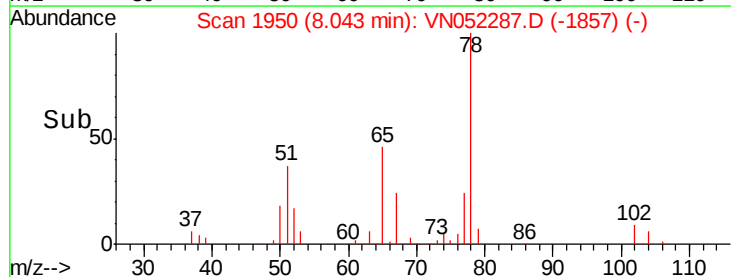
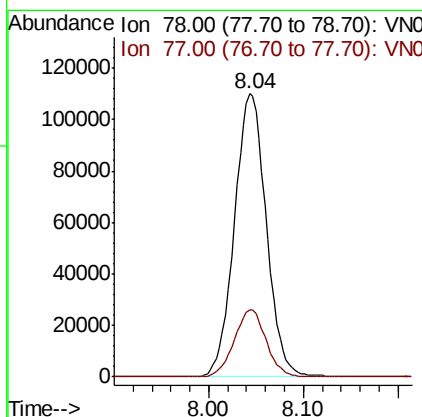
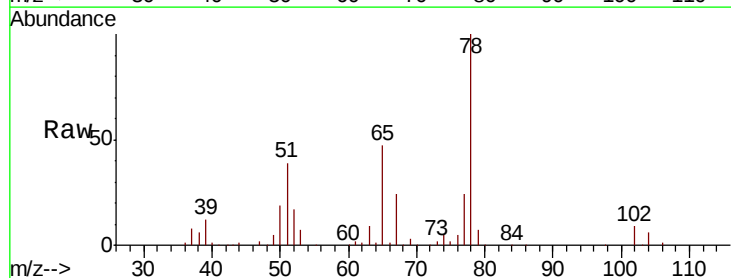
Manual Integrations
APPROVED

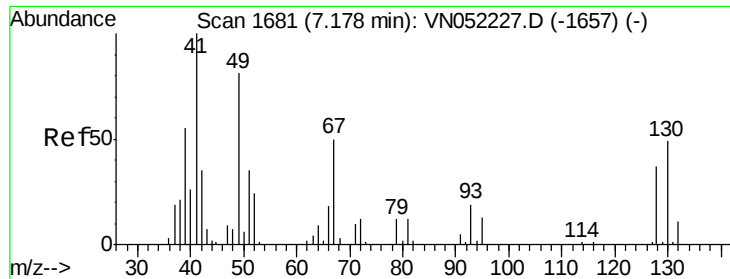
MMDadoda
11/14/2018 11:10:28 AM



#40
Benzene
Concen: 18.968 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.2	28.8





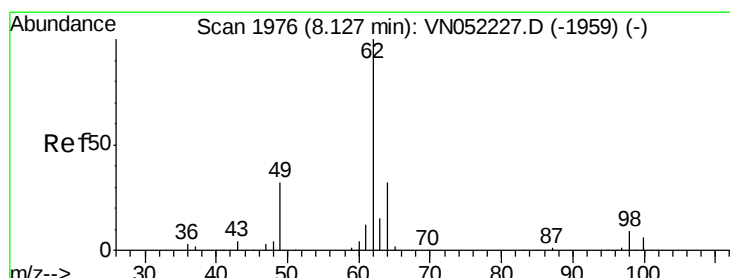
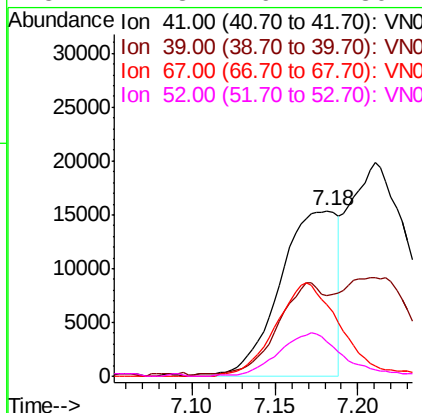
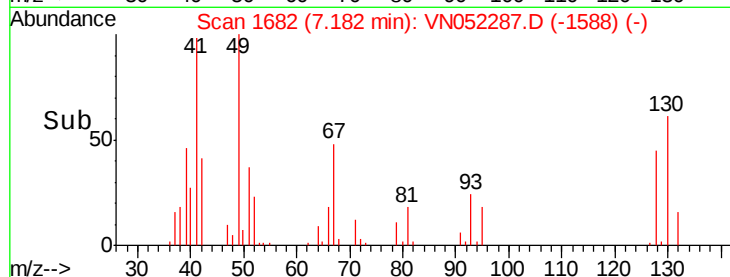
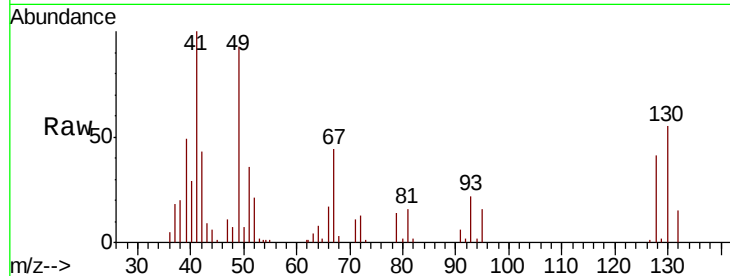
#41
Methacrylonitrile
Concen: 17.925 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
37179	41	100		
	39	45.1	47.8	71.6#
	67	63.8	54.3	81.5
	52	27.3	26.2	39.4

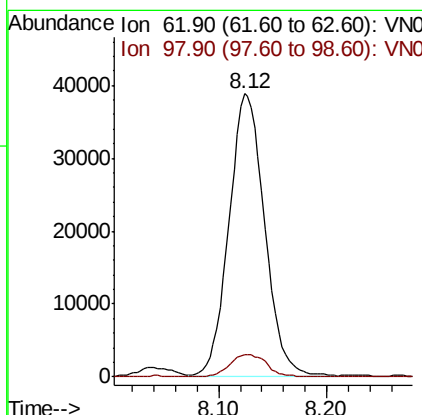
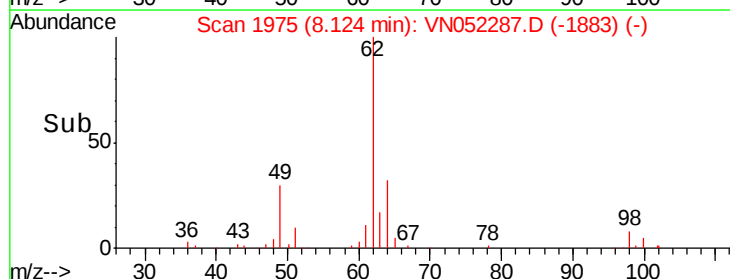
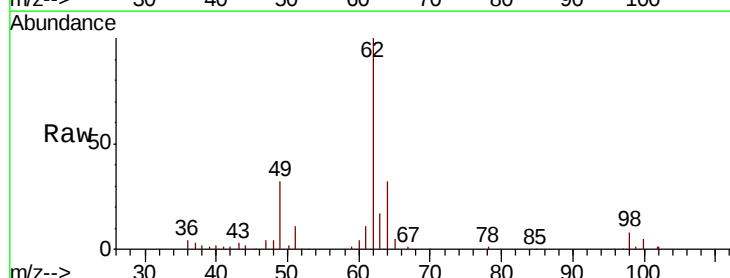
Manual Integrations
APPROVED

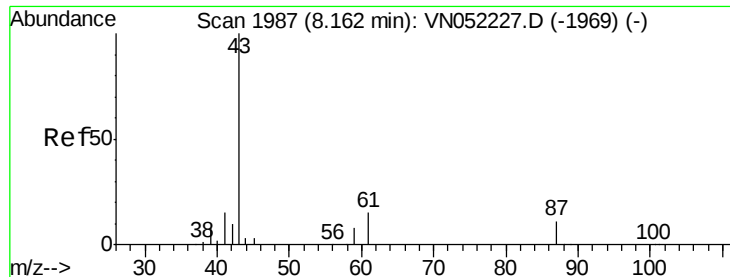
MMDadoda
11/14/2018 11:10:28 AM



#42
1,2-Dichloroethane
Concen: 18.696 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ion	Ratio	Lower	Upper
89134	62	100		
	98	8.2	0.0	16.4





#43

Isopropyl Acetate

Concen: 18.881 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

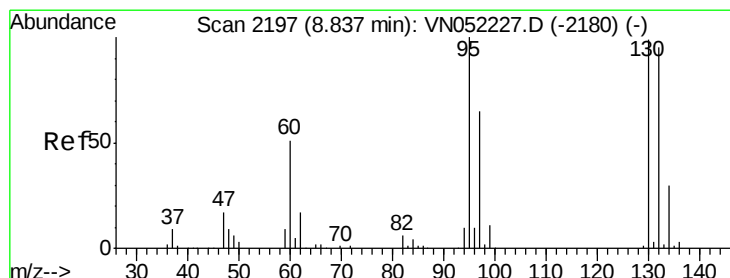
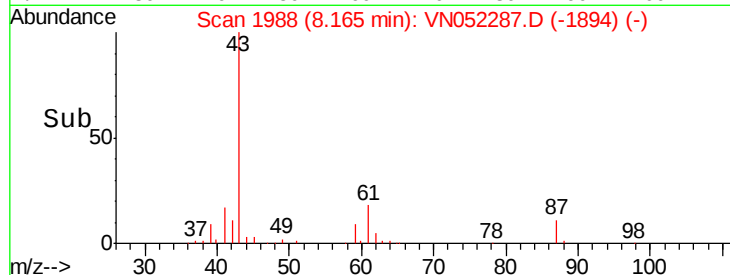
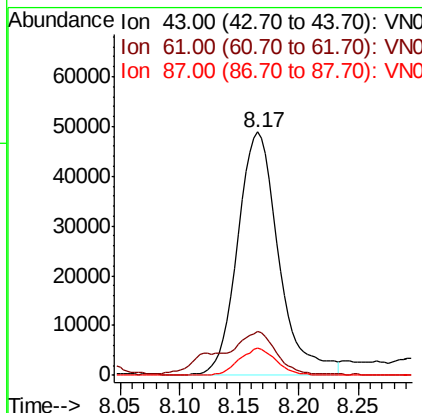
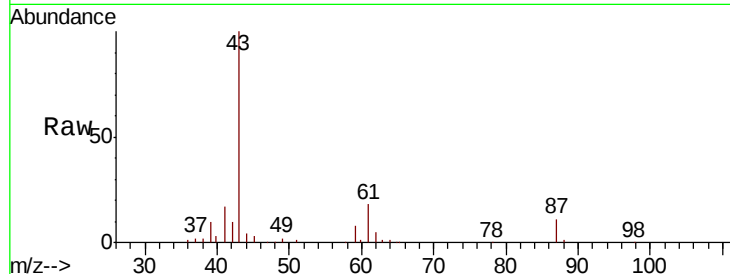
ClientSampleId :

VN1113WBSD02

Tot Ion:	43	Resp:	117473
Ion	Ratio	Lower	Upper
43	100		
61	15.4	14.2	21.4
87	10.2	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#44

Trichloroethene

Concen: 18.587 ug/l

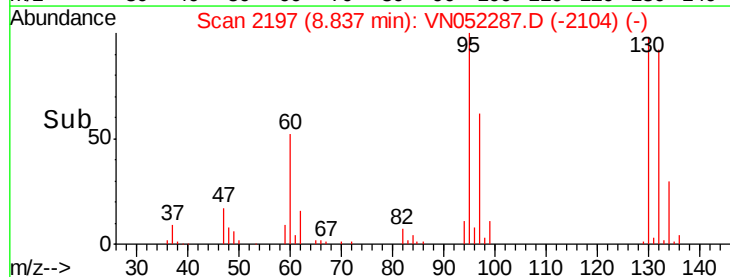
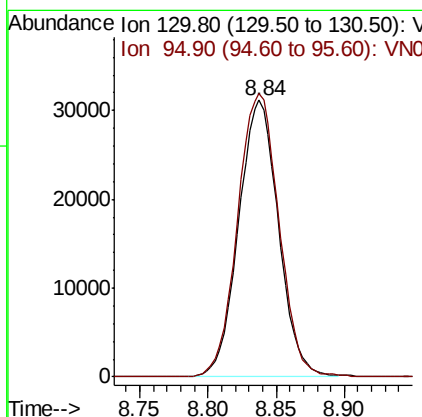
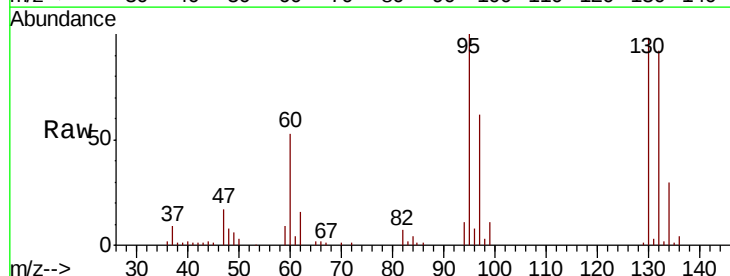
RT: 8.84 min Scan# 2197

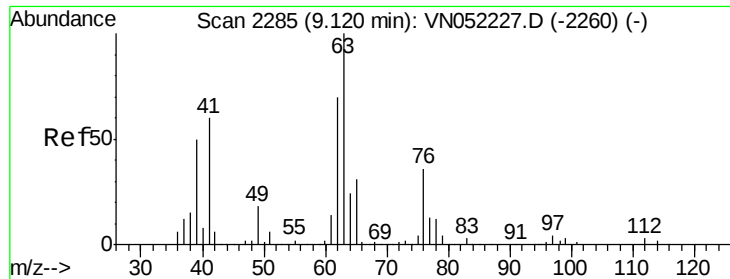
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	130	Resp:	63287
Ion	Ratio	Lower	Upper
130	100		
95	102.3	0.0	201.6





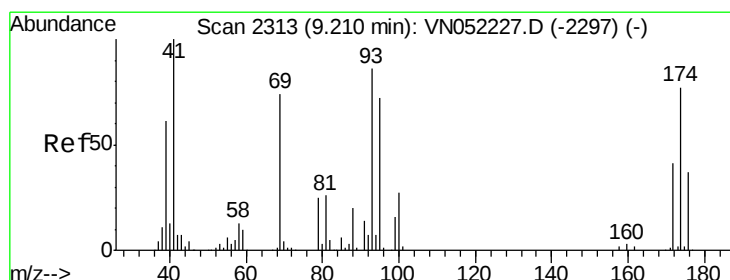
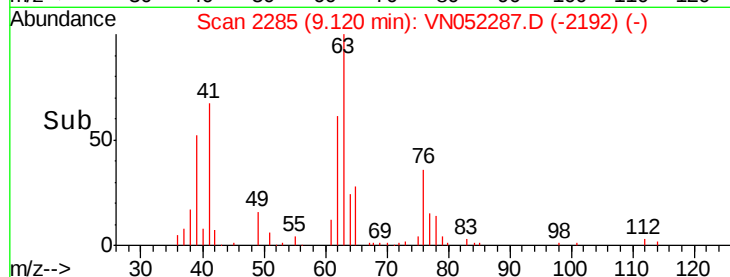
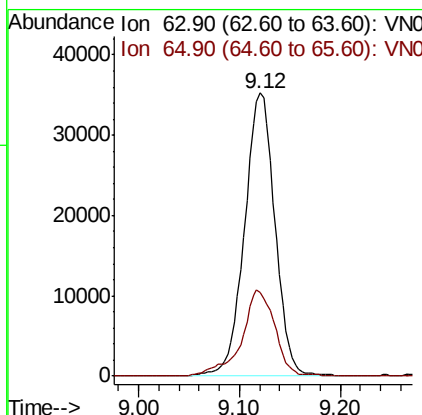
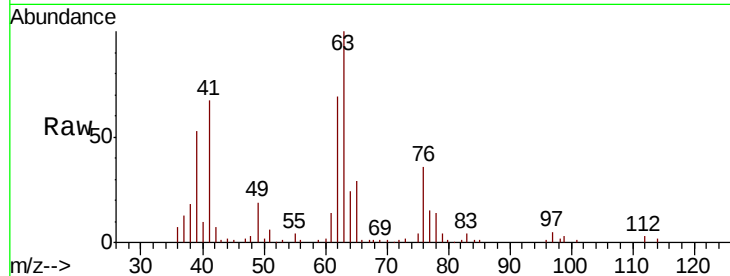
#45
 1,2-Dichloropropane
 Concen: 19.350 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion: 63 Resp: 73452
 Ion Ratio Lower Upper
 63 100
 65 29.4 24.8 37.2

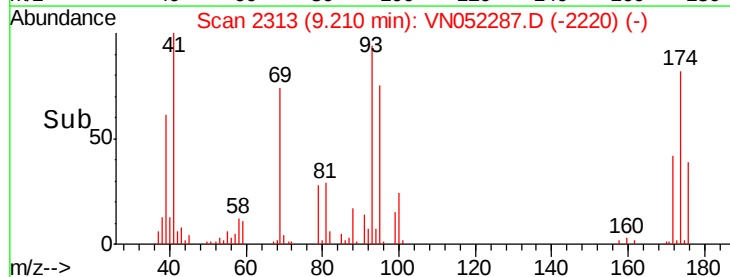
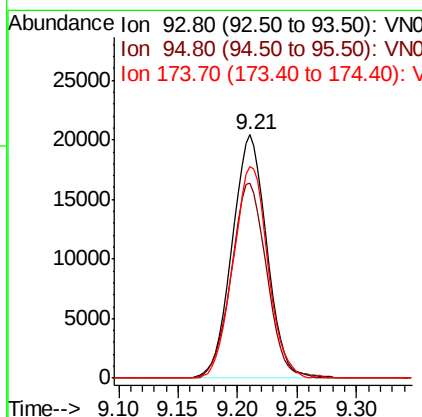
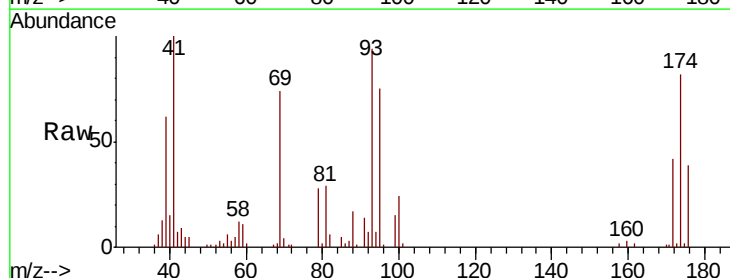
Manual Integrations
 APPROVED

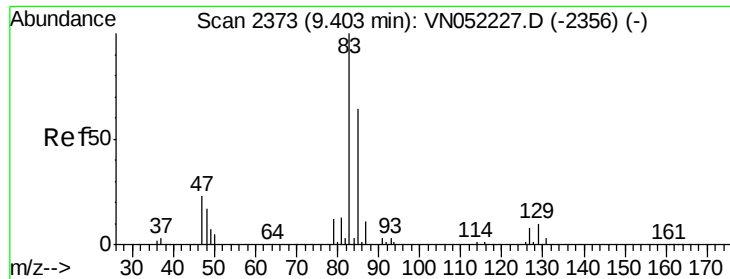
MMDadoda
 11/14/2018 11:10:28 AM



#46
 Dibromomethane
 Concen: 18.964 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion: 93 Resp: 41351
 Ion Ratio Lower Upper
 93 100
 95 81.5 67.0 100.4
 174 87.1 72.1 108.1





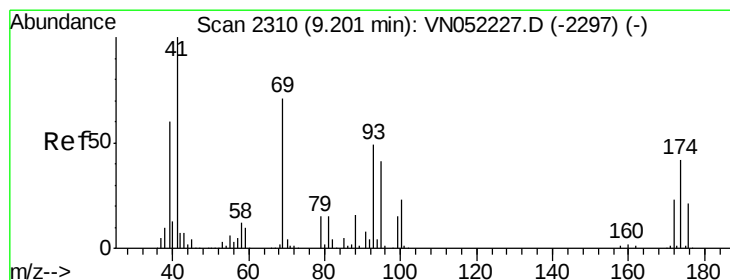
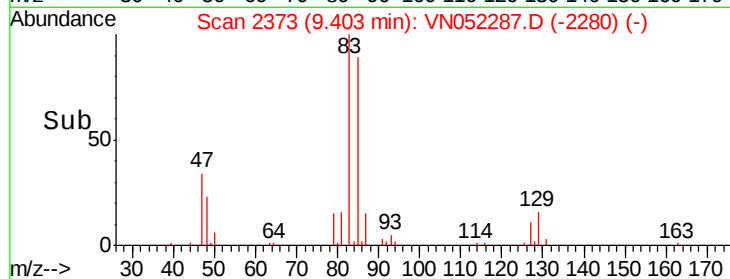
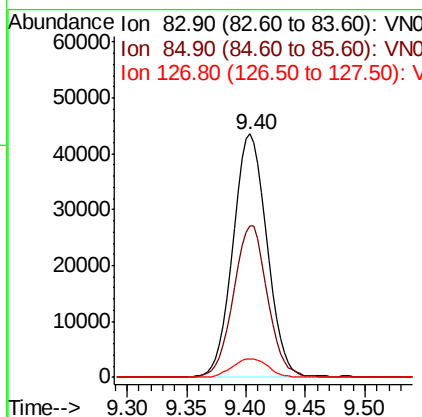
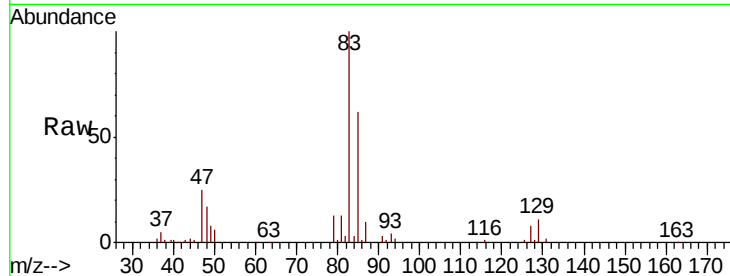
#47
Bromodichloromethane
Concen: 19.147 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	83	Resp	86497
Ion Ratio	100	Lower	Upper
83	100		
85	62.4	51.2	76.8
127	7.8	6.2	9.4

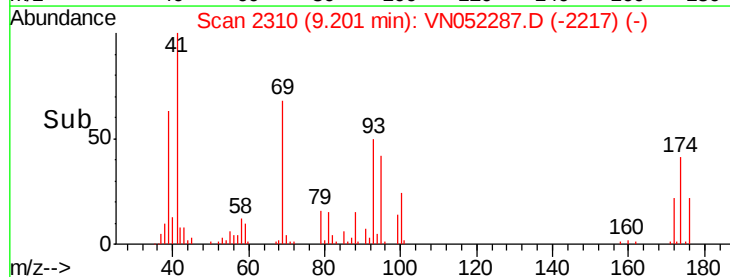
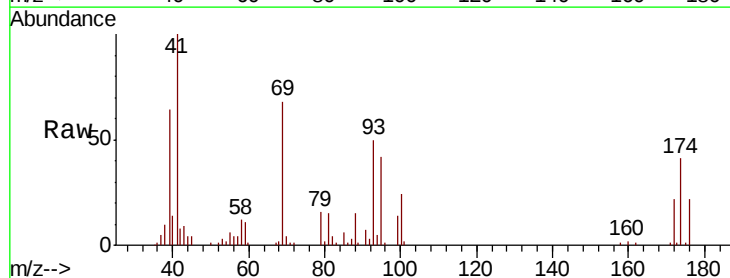
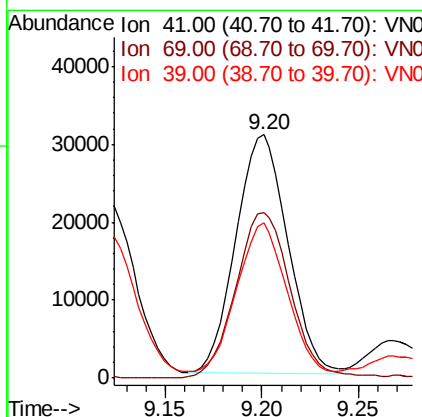
Manual Integrations
APPROVED

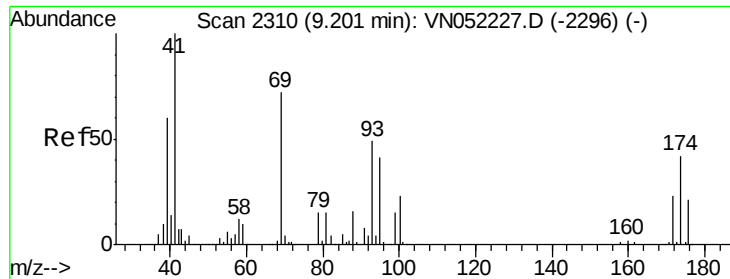
MMDadoda
11/14/2018 11:10:28 AM



#48
Methyl methacrylate
Concen: 17.429 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	41	Resp	57138
Ion Ratio	100	Lower	Upper
41	100		
69	73.3	58.8	88.2
39	63.6	50.7	76.1





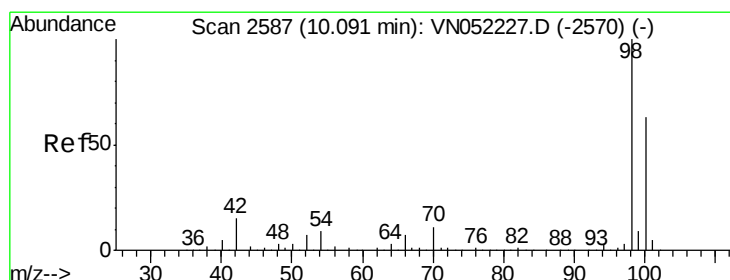
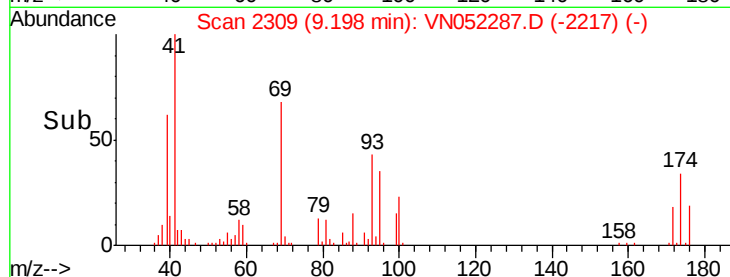
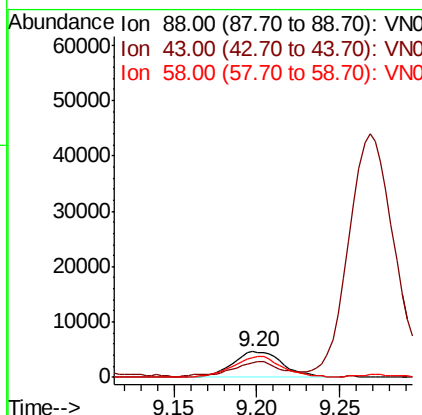
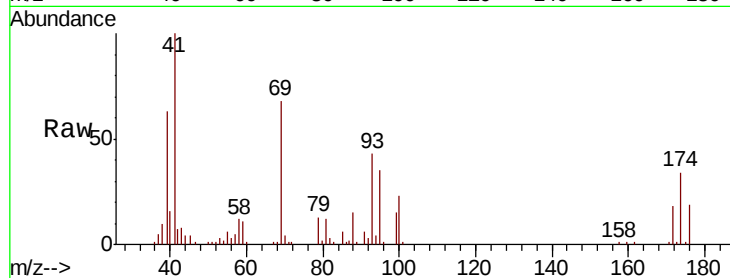
#49
1,4-Dioxane
Concen: 374.868 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 88 Resp: 9879
Ion Ratio Lower Upper
88 100
43 53.8 32.5 48.7#
58 79.7 58.2 87.4

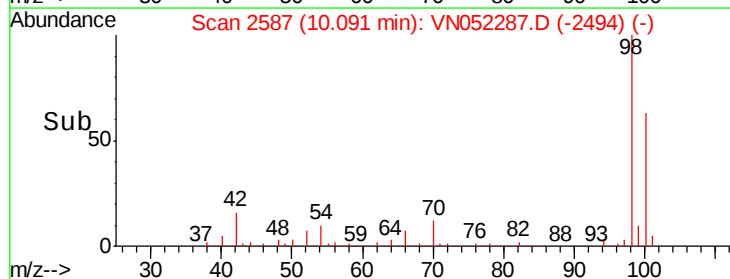
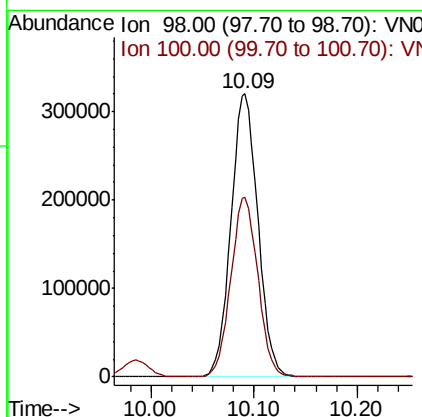
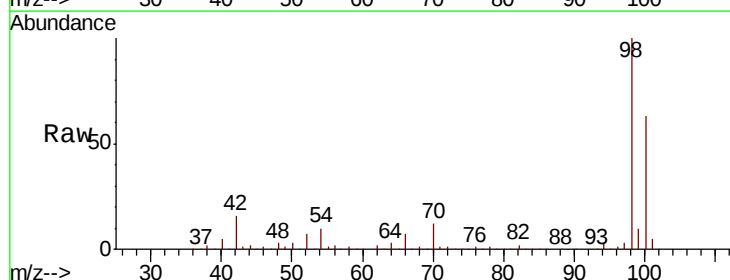
Manual Integrations
APPROVED

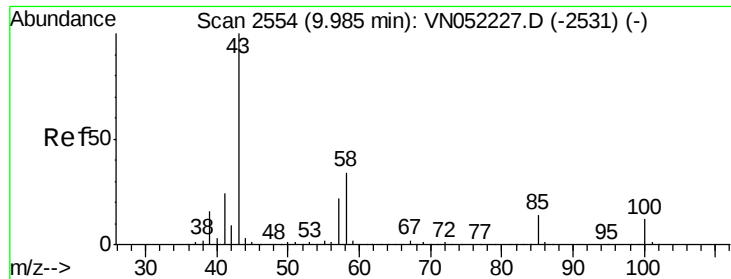
MMDadoda
11/14/2018 11:10:28 AM



#50
Toluene-d8
Concen: 374.868 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 98 Resp: 583232
Ion Ratio Lower Upper
98 100
100 63.5 50.2 75.2





#51

4-Methyl-2-Pentanone

Concen: 88.078 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 43 Resp: 302639

Ion Ratio Lower Upper

43 100

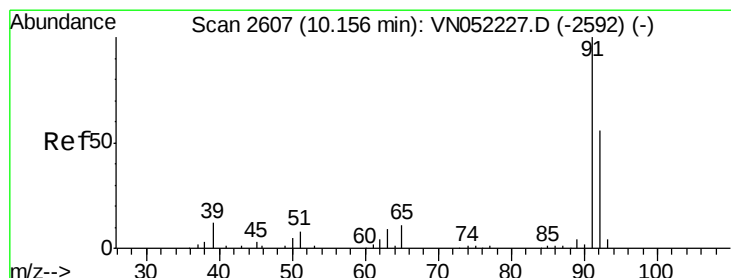
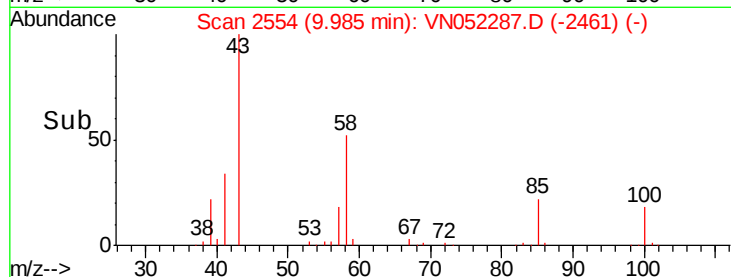
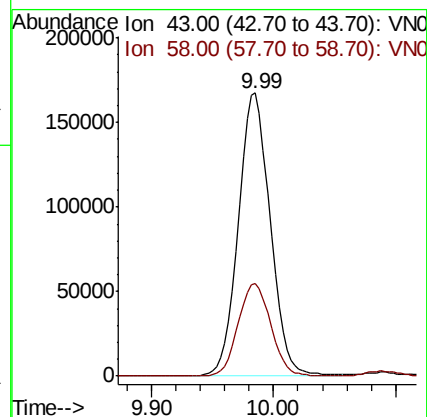
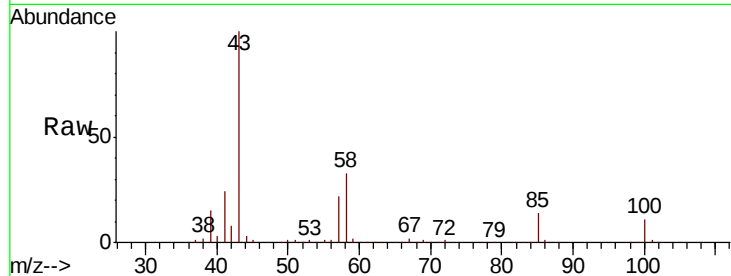
58 33.7 27.4 41.0

Manual Integrations

APPROVED

MMDadoda

11/14/2018 11:10:28 AM



#52

Toluene

Concen: 19.167 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052287.D

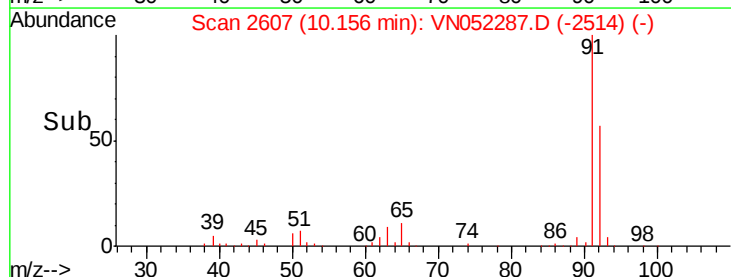
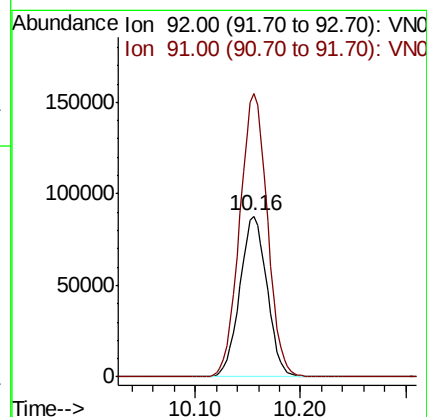
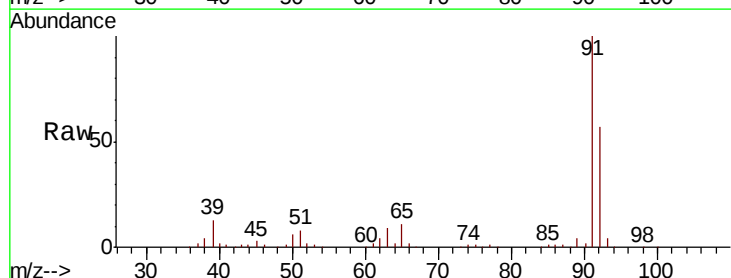
Acq: 13 Nov 2018 15:30

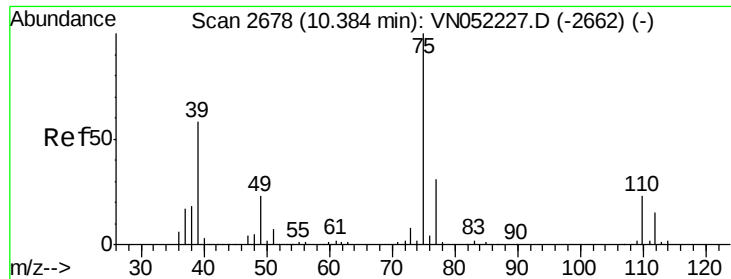
Tgt Ion: 92 Resp: 157105

Ion Ratio Lower Upper

92 100

91 179.3 142.5 213.7





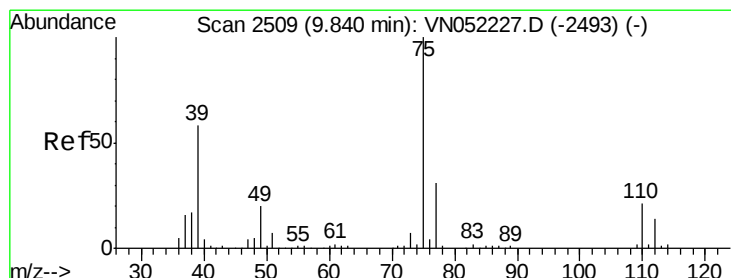
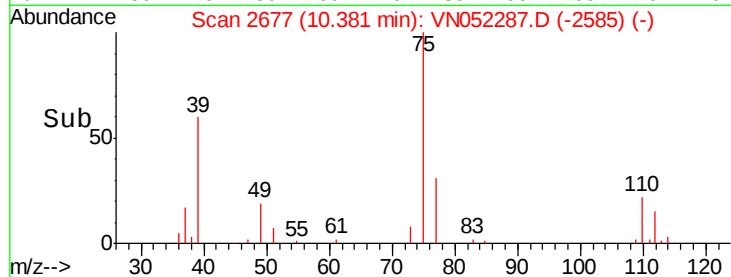
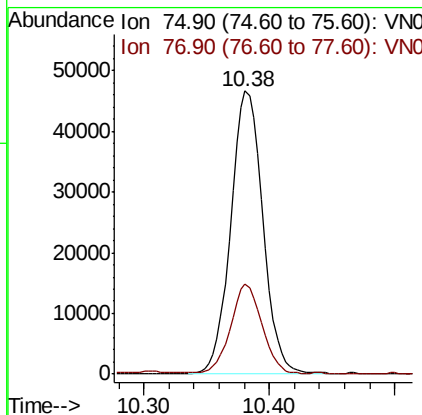
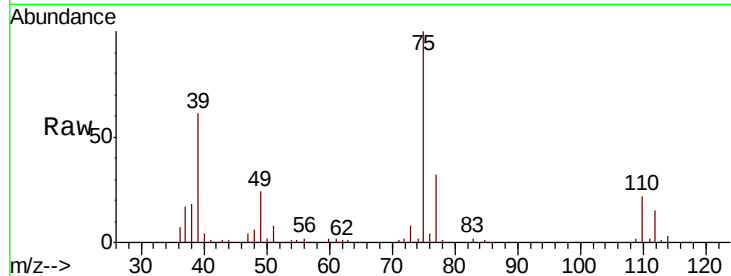
#53
t-1,3-Dichloropropene
Concen: 18.618 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 75 Resp: 82999
Ion Ratio Lower Upper
75 100
77 31.9 24.6 36.8

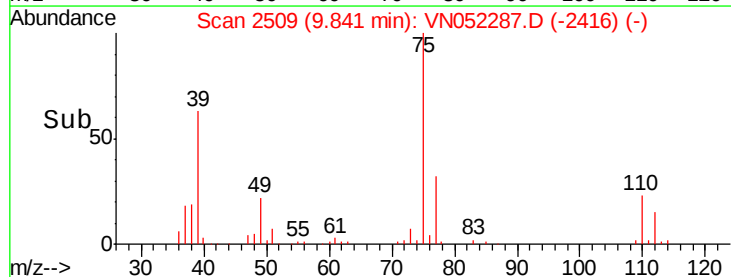
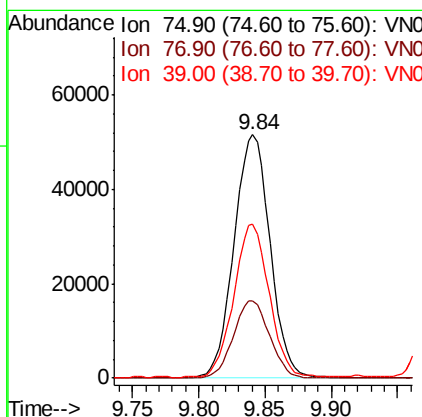
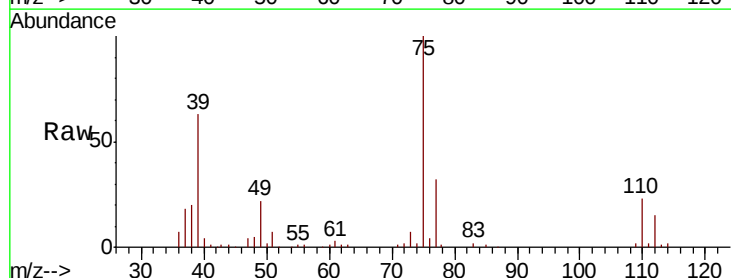
Manual Integrations
APPROVED

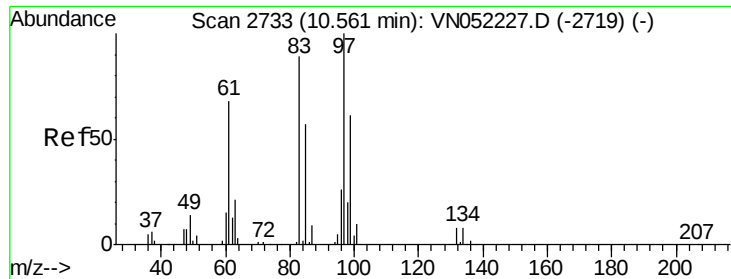
MMDadoda
11/14/2018 11:10:28 AM



#54
cis-1,3-Dichloropropene
Concen: 18.517 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 75 Resp: 97446
Ion Ratio Lower Upper
75 100
77 31.8 25.2 37.8
39 62.4 46.6 70.0





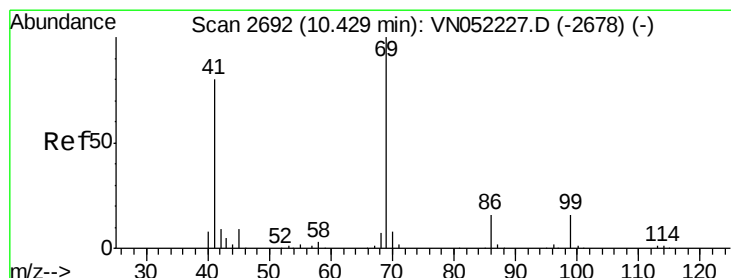
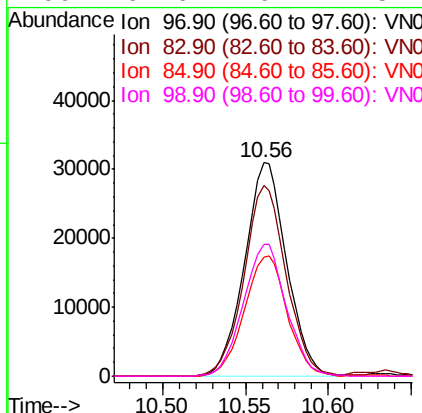
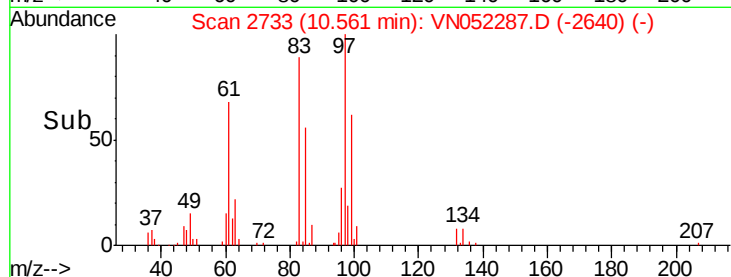
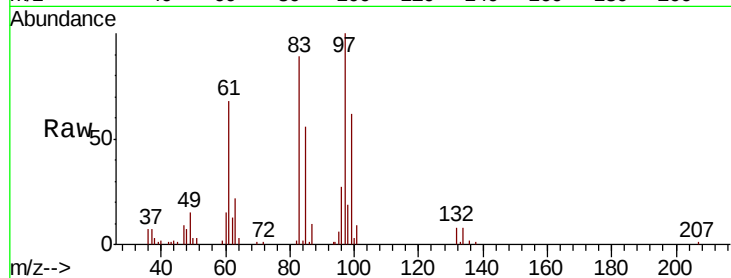
#55
 1,1,2-Trichloroethane
 Concen: 18.408 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.2	71.2	106.8
85	55.9	45.6	68.4
99	61.6	49.1	73.7

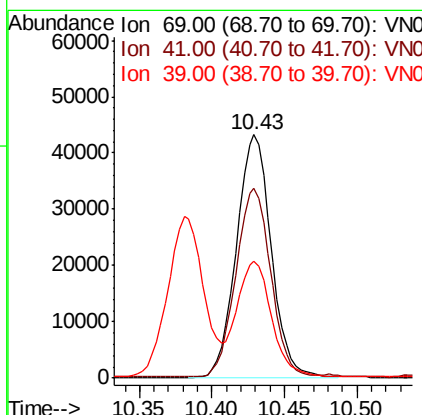
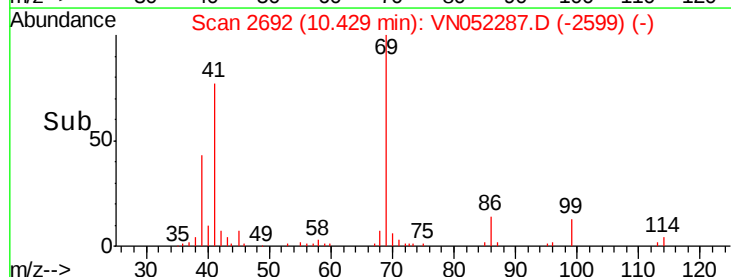
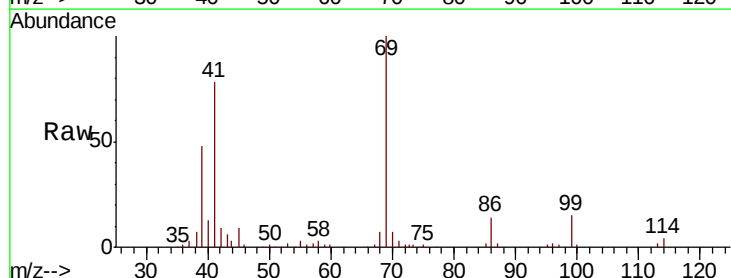
Manual Integrations
 APPROVED

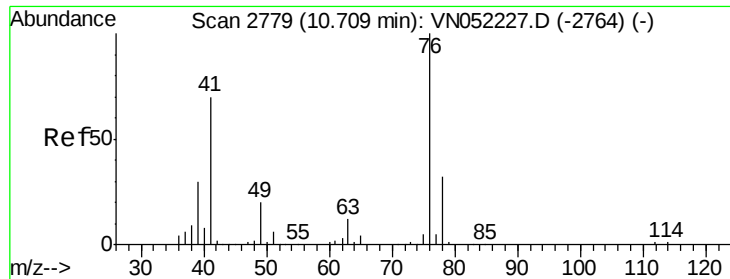
MMDadoda
 11/14/2018 11:10:28 AM



#56
 Ethyl methacrylate
 Concen: 18.024 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.2	64.0	96.0
39	47.3	37.8	56.8





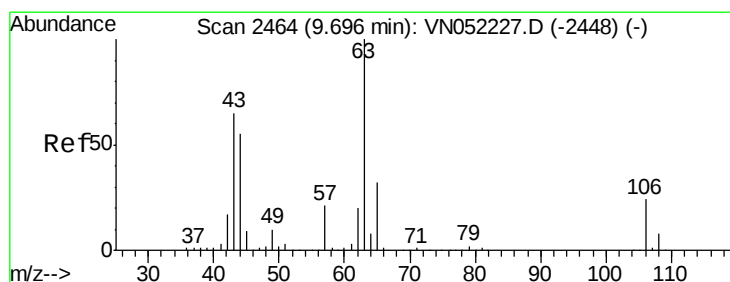
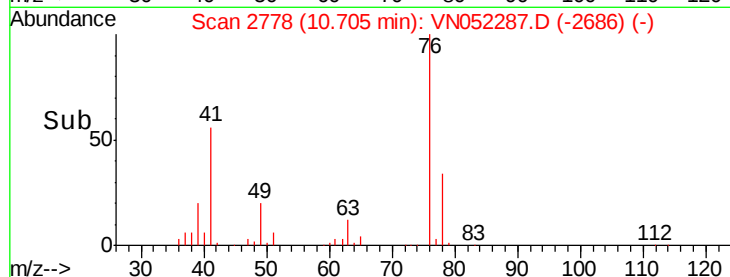
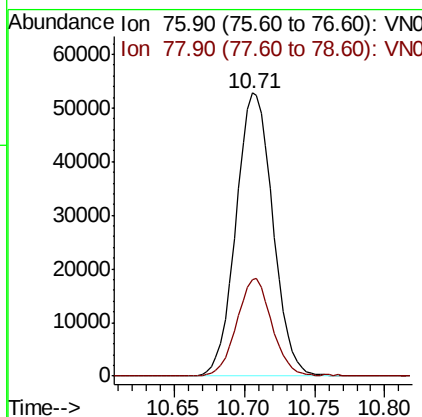
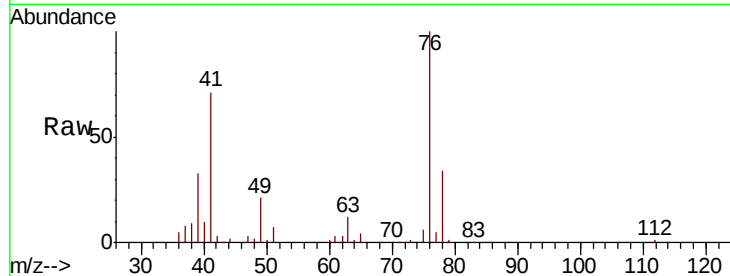
#57
 1,3-Dichloropropane
 Concen: 18.240 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion: 76 Resp: 96736
 Ion Ratio Lower Upper
 76 100
 78 32.8 25.7 38.5

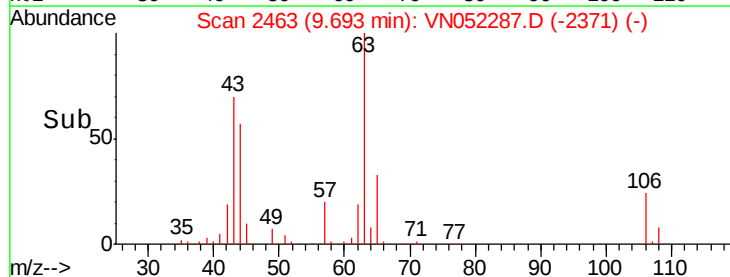
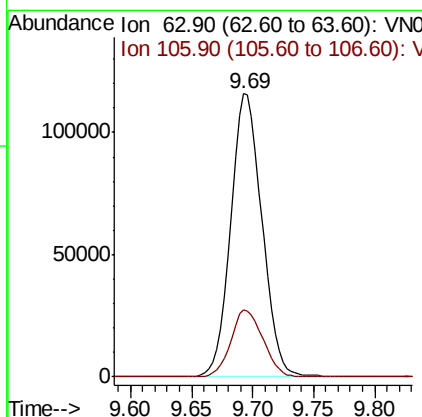
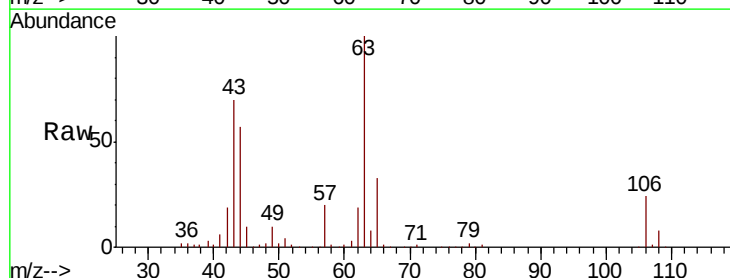
Manual Integrations
 APPROVED

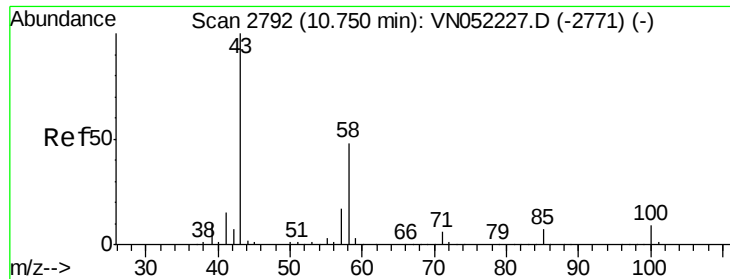
MMDadoda
 11/14/2018 11:10:28 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 93.274 ug/l
 RT: 9.69 min Scan# 2463
 Delta R.T. -0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion: 63 Resp: 206796
 Ion Ratio Lower Upper
 63 100
 106 24.3 19.5 29.3





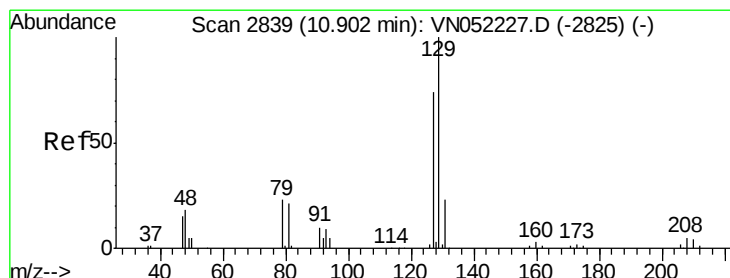
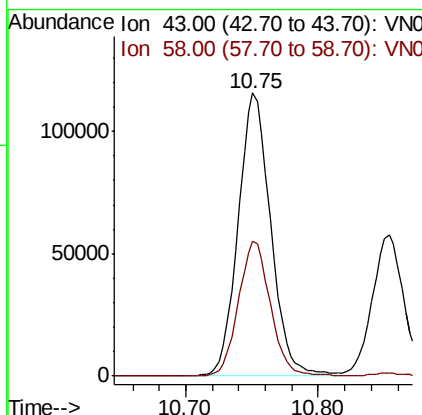
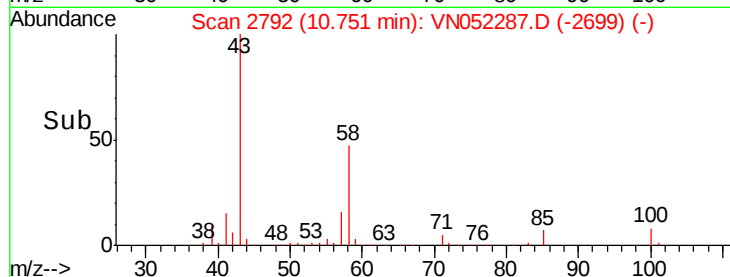
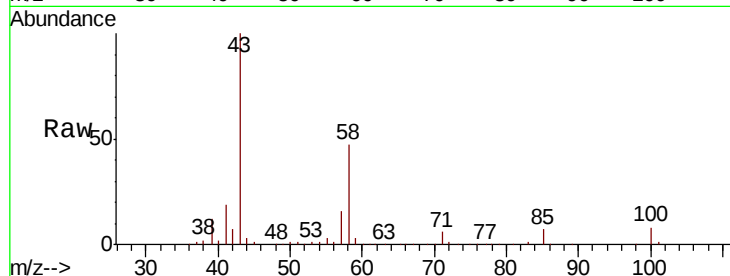
#59
2-Hexanone
Concen: 81.352 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 43 Resp: 196227
Ion Ratio Lower Upper
43 100
58 47.0 24.1 72.3

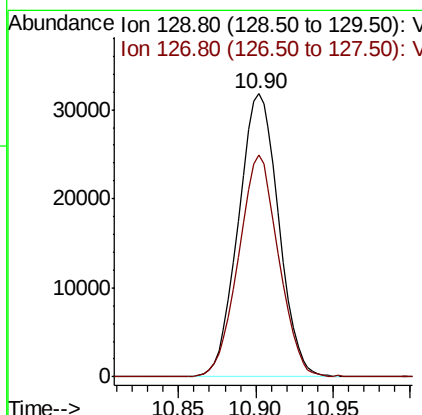
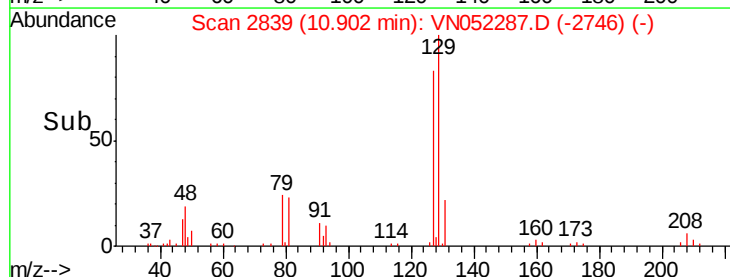
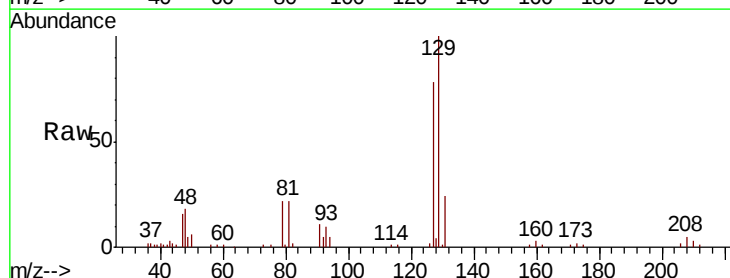
Manual Integrations
APPROVED

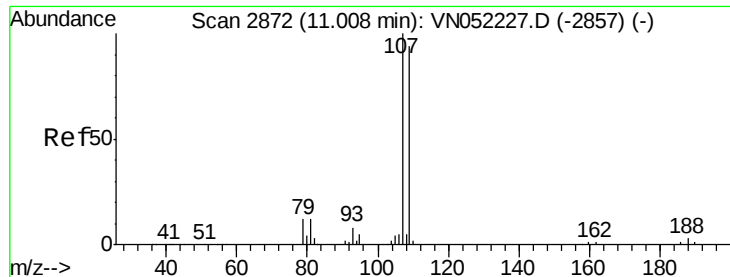
MMDadoda
11/14/2018 11:10:28 AM



#60
Dibromochloromethane
Concen: 19.169 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 129 Resp: 57606
Ion Ratio Lower Upper
129 100
127 77.7 38.0 114.1





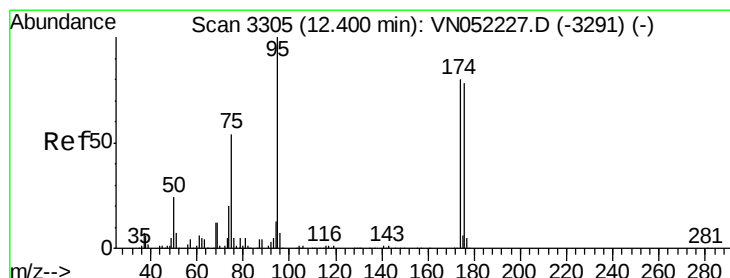
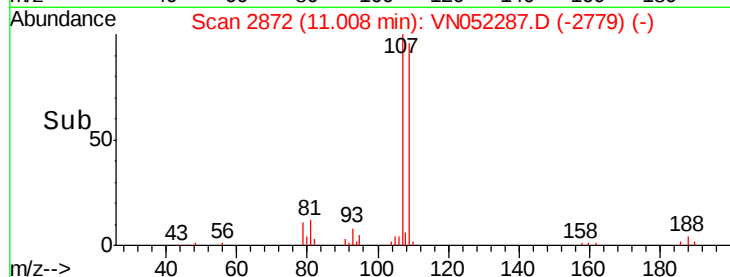
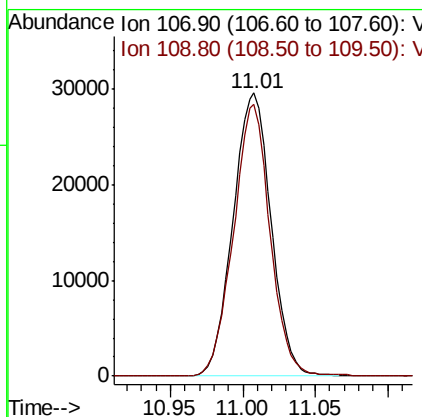
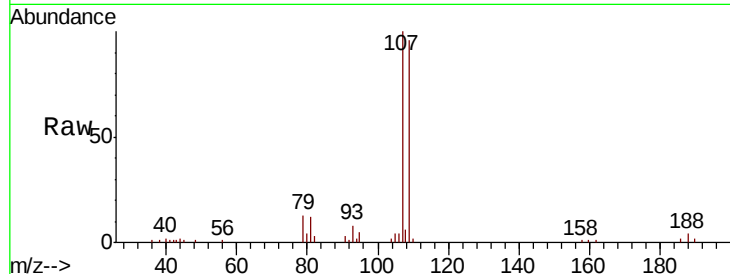
#61
 1,2-Dibromoethane
 Concen: 18.567 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion:107 Resp: 54060
 Ion Ratio Lower Upper
 107 100
 109 92.3 75.8 113.6

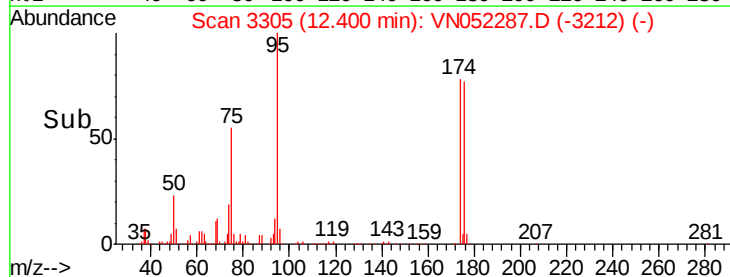
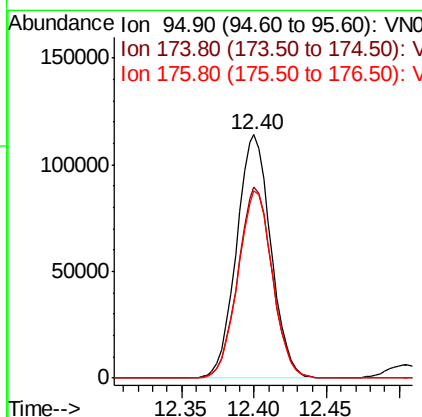
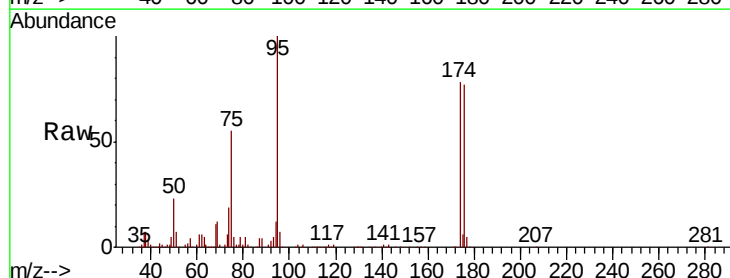
Manual Integrations
 APPROVED

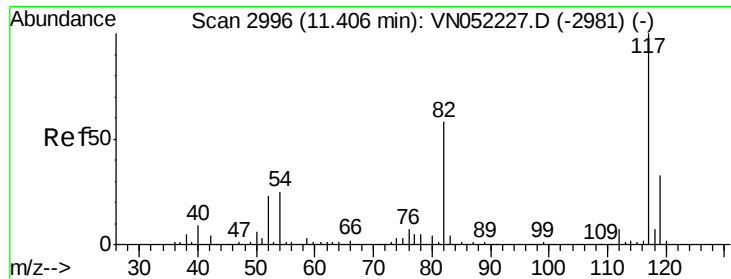
MMDadoda
 11/14/2018 11:10:28 AM



#62
 4-Bromofluorobenzene
 Concen: 18.567 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion: 95 Resp: 187331
 Ion Ratio Lower Upper
 95 100
 174 78.6 0.0 159.4
 176 77.4 0.0 157.8





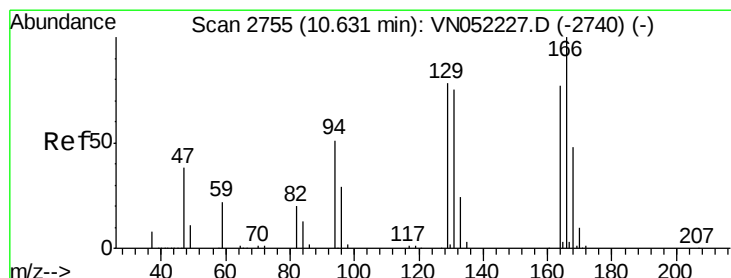
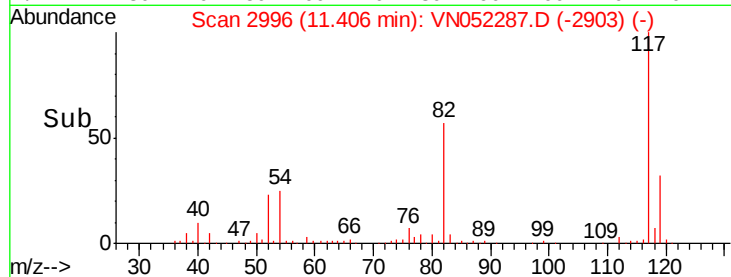
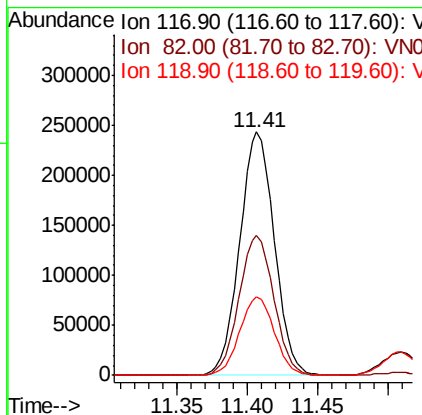
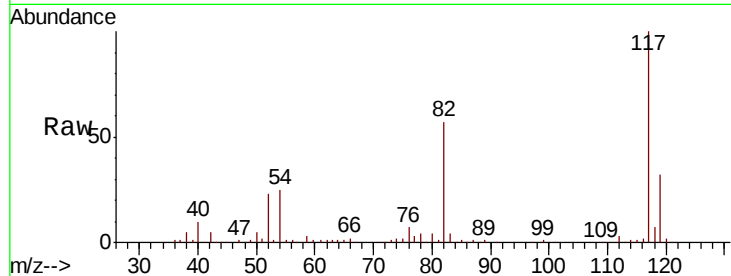
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.4	46.2	69.2
119	32.1	26.2	39.4

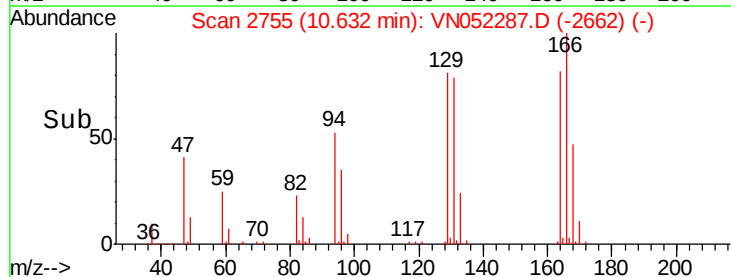
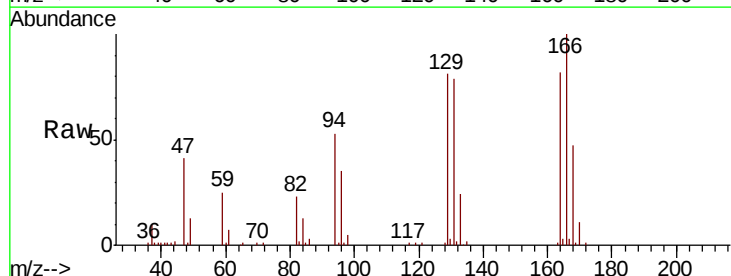
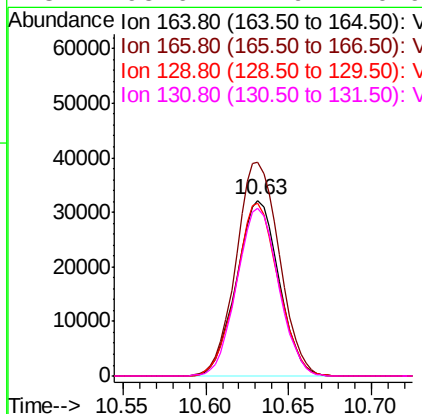
Manual Integrations
APPROVED

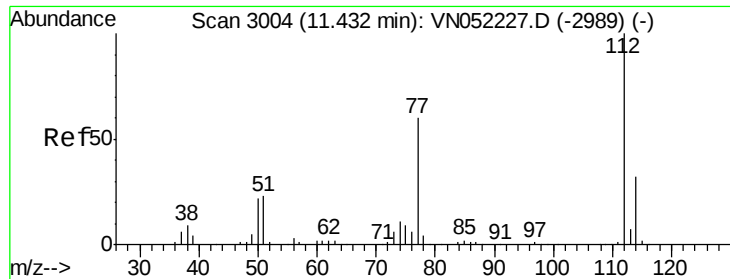
MMDadoda
11/14/2018 11:10:28 AM



#64
Tetrachloroethene
Concen: 19.493 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.4	103.6	155.4
129	98.5	81.0	121.6
131	95.6	77.9	116.9





#65

Chlorobenzene

Concen: 19.044 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion:112 Resp: 169373

Ion Ratio Lower Upper

112 100

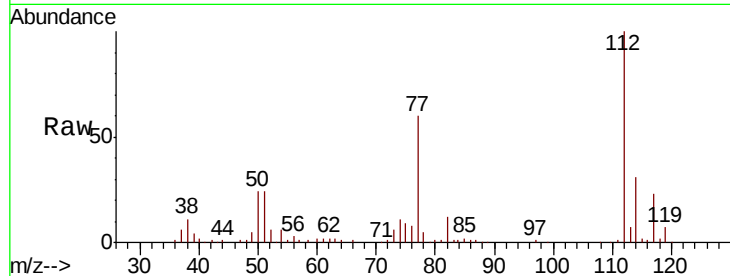
114 30.8 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

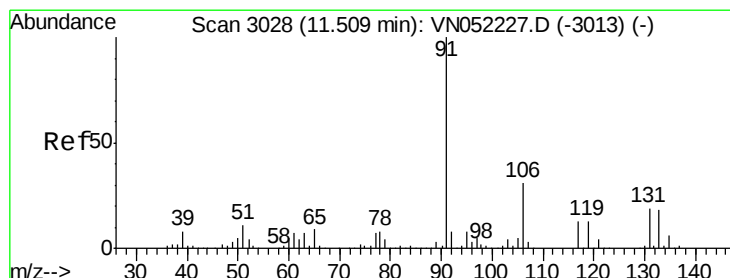
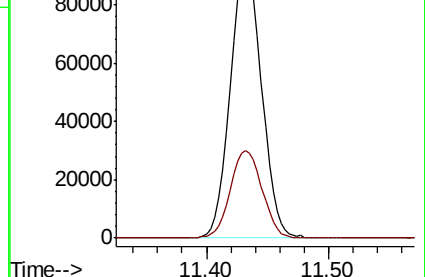
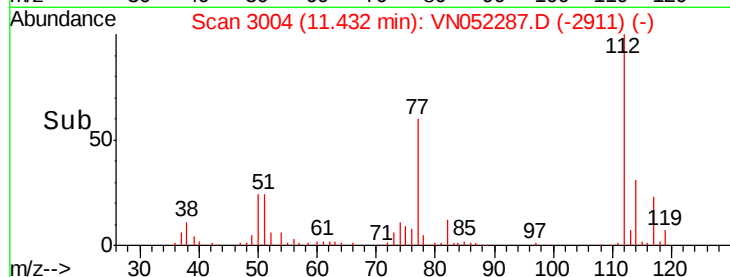
11/14/2018 11:10:28 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43



#66

1,1,1,2-Tetrachloroethane

Concen: 19.318 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

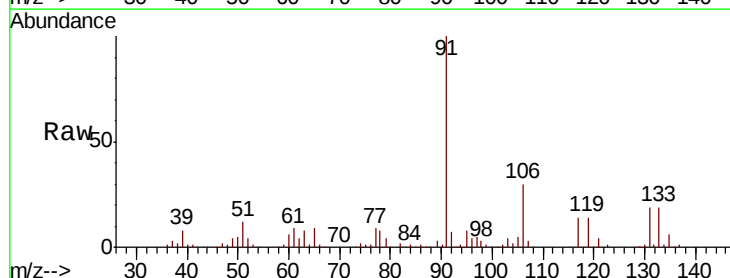
Tgt Ion:131 Resp: 58197

Ion Ratio Lower Upper

131 100

133 94.5 48.3 144.9

119 68.2 34.6 103.9

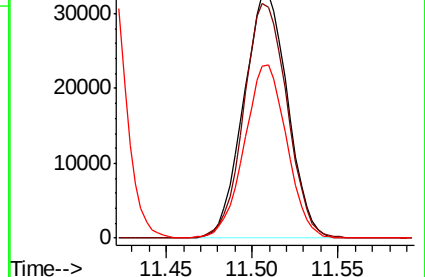
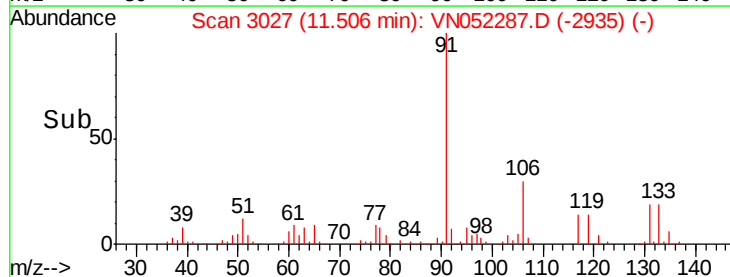


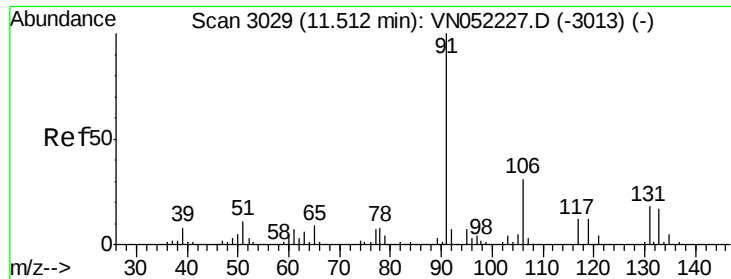
Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.51





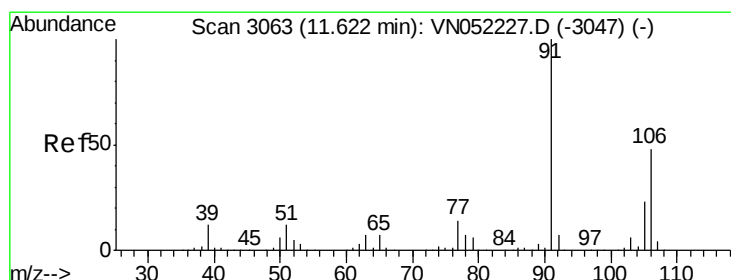
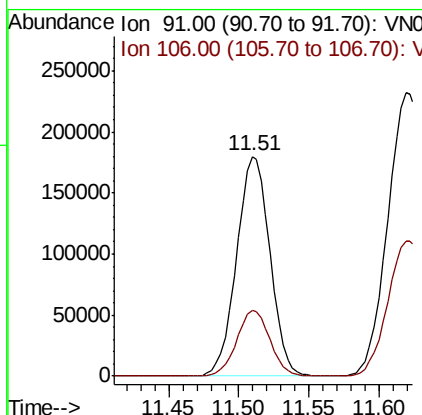
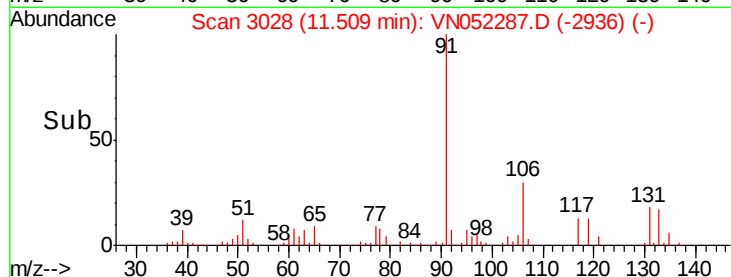
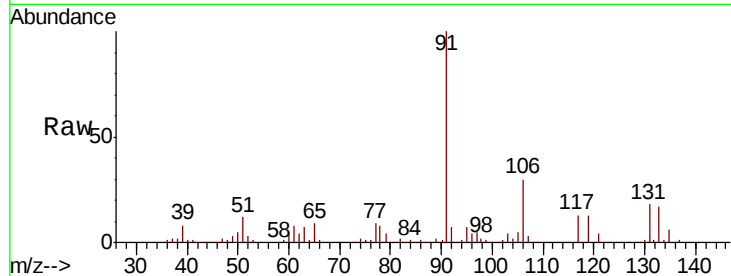
#67
Ethyl Benzene
Concen: 19.073 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion: 91 Resp: 298372
Ion Ratio Lower Upper
91 100
106 30.1 24.7 37.1

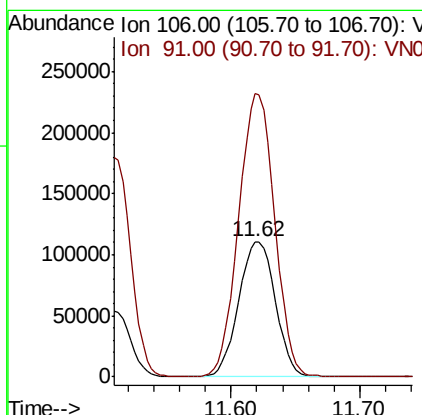
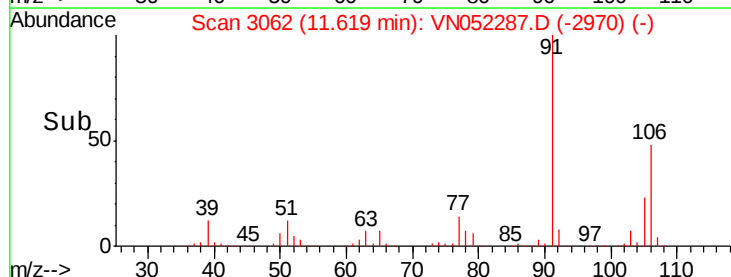
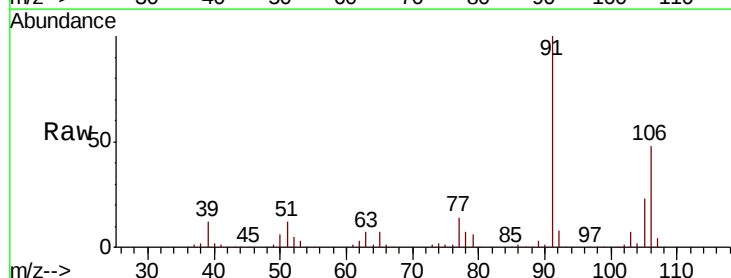
Manual Integrations
APPROVED

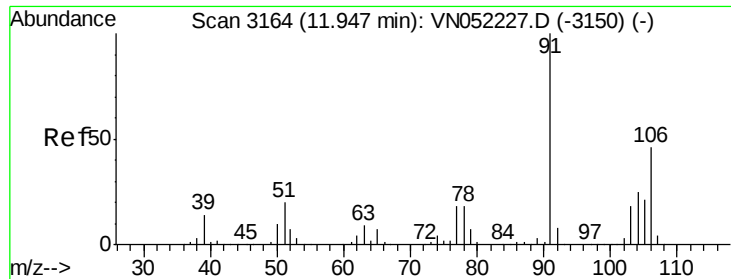
MMDadoda
11/14/2018 11:10:28 AM



#68
m/p-Xylenes
Concen: 37.588 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion: 106 Resp: 218980
Ion Ratio Lower Upper
106 100
91 205.4 165.7 248.5





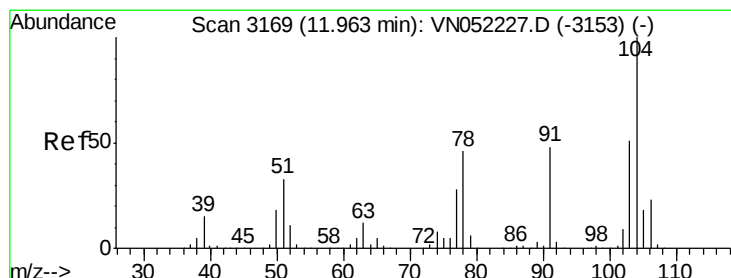
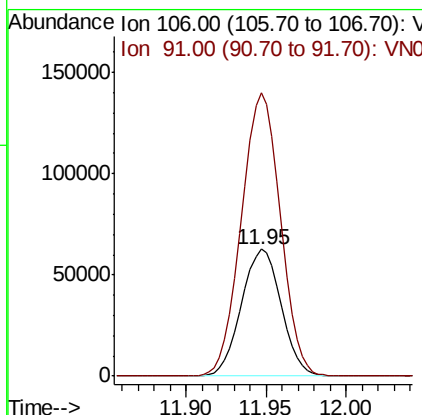
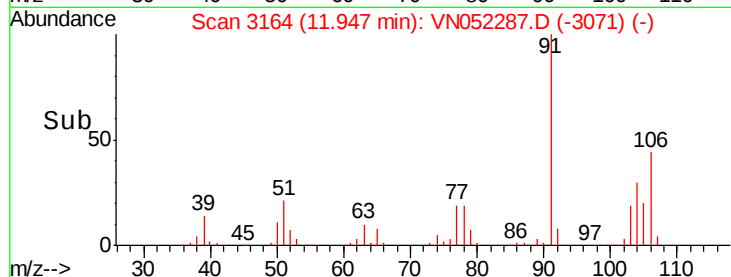
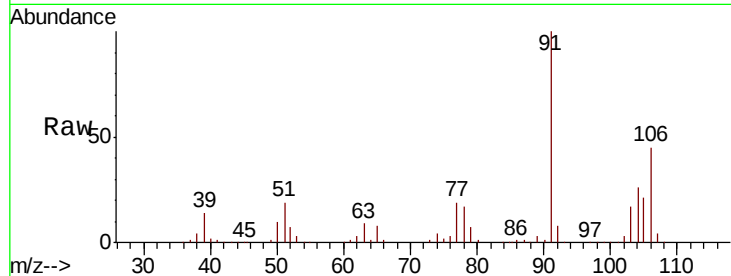
#69
o-Xylene
Concen: 19.079 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion:106 Resp: 106195
Ion Ratio Lower Upper
106 100
91 219.3 108.5 325.5

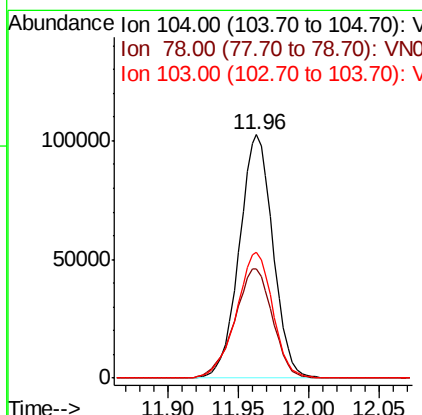
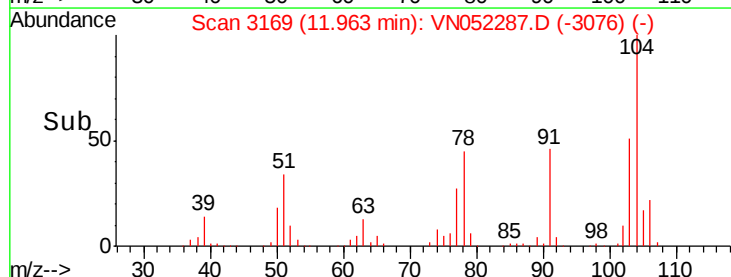
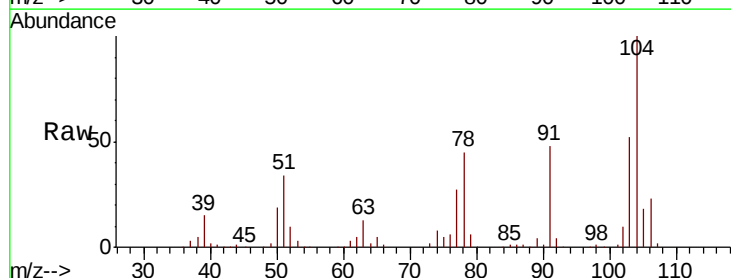
Manual Integrations
APPROVED

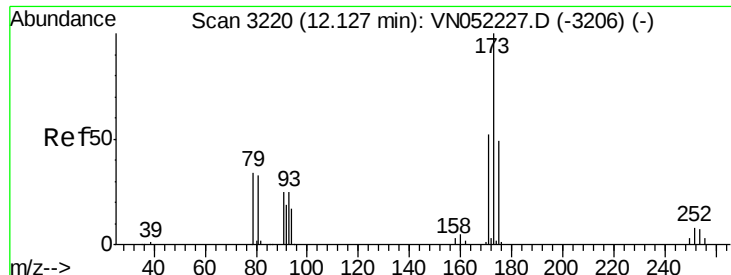
MMDadoda
11/14/2018 11:10:28 AM



#70
Styrene
Concen: 19.039 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion:104 Resp: 171202
Ion Ratio Lower Upper
104 100
78 50.6 41.8 62.6
103 55.8 44.9 67.3





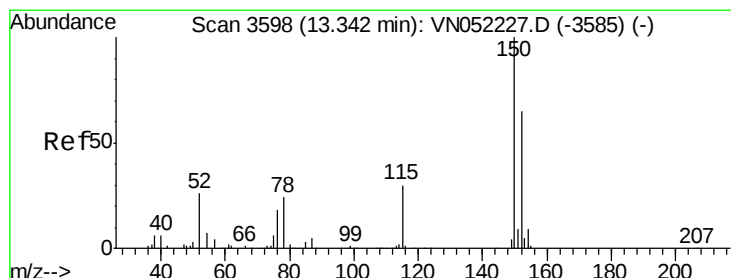
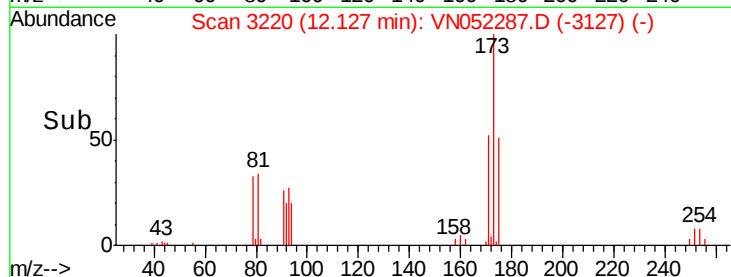
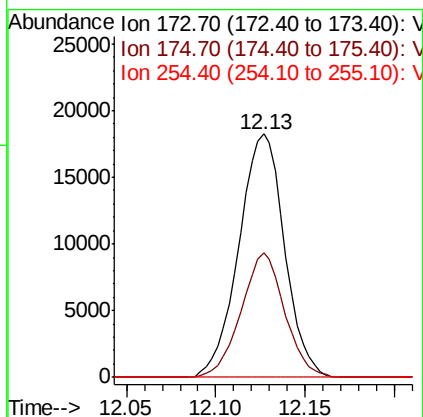
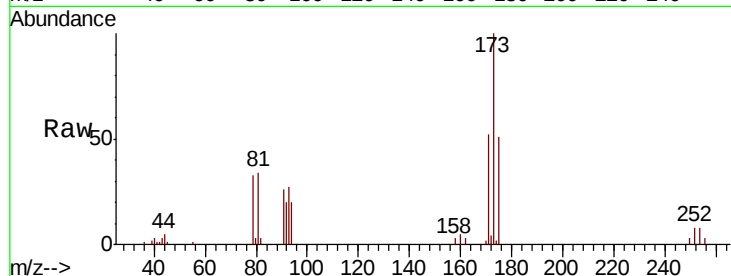
#71
Bromoform
Concen: 18.096 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.5	73.5
254	0.0	0.0	0.0

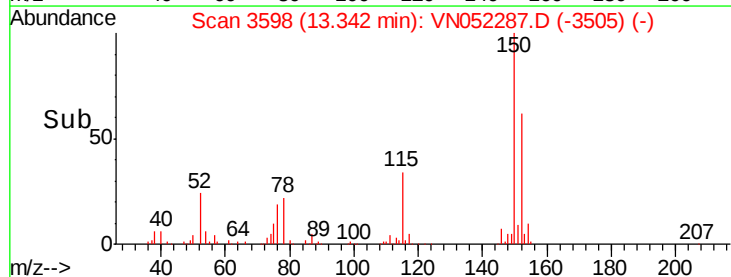
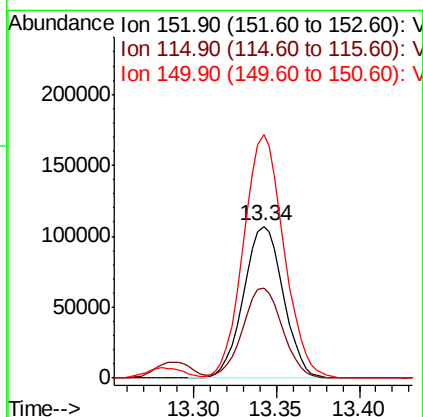
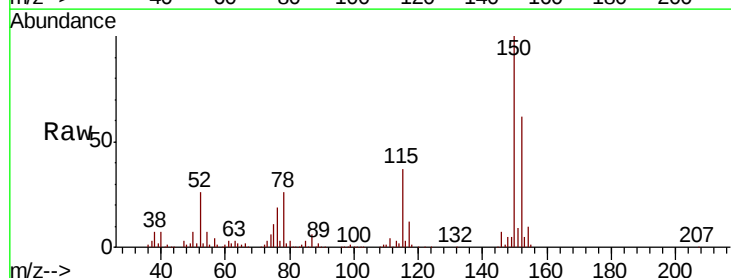
Manual Integrations
APPROVED

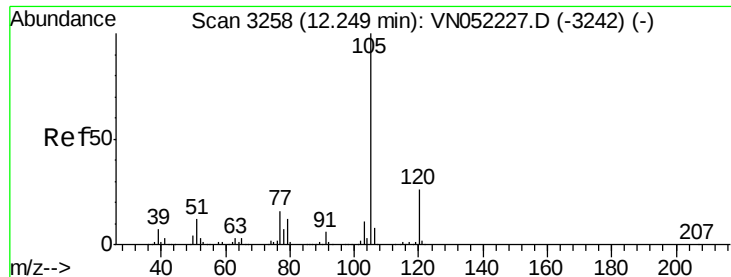
MMDadoda
11/14/2018 11:10:28 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.4	29.8	89.5
150	163.3	0.0	350.2





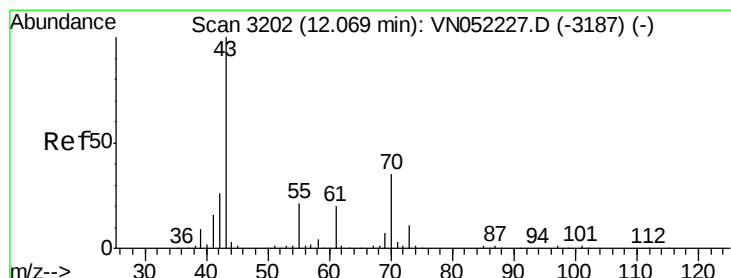
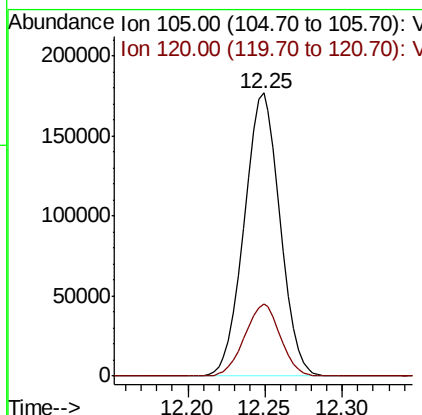
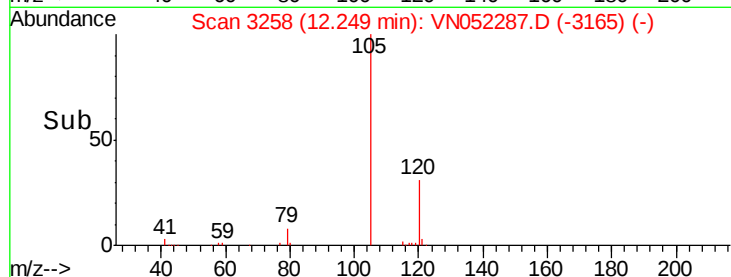
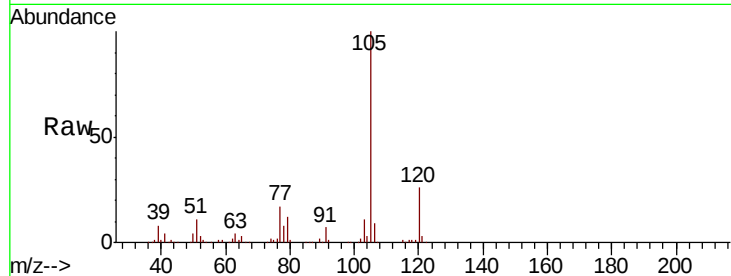
#73
Isopropylbenzene
Concen: 19.562 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.4	13.1	39.1

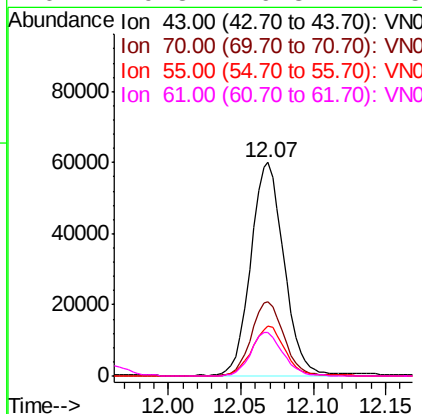
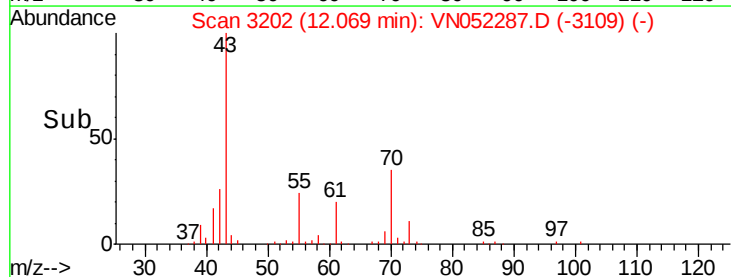
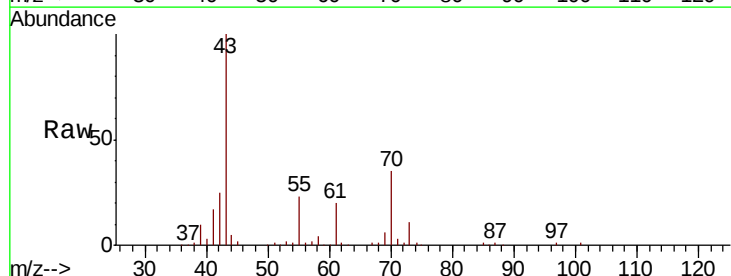
Manual Integrations
APPROVED

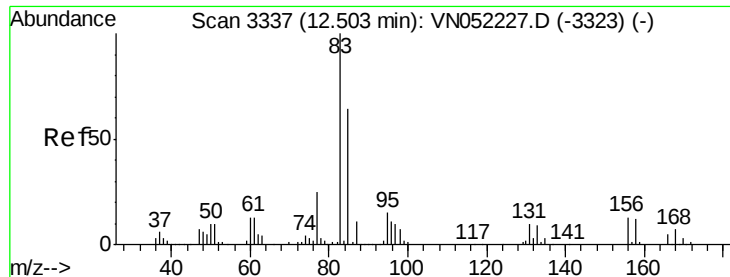
MMDadoda
11/14/2018 11:10:28 AM



#74
N-ethyl acetate
Concen: 18.214 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
43	100		
70	34.2	28.2	42.2
55	23.0	17.4	26.2
61	19.8	16.3	24.5





#75

1,1,2,2-Tetrachloroethane

Concen: 18.629 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

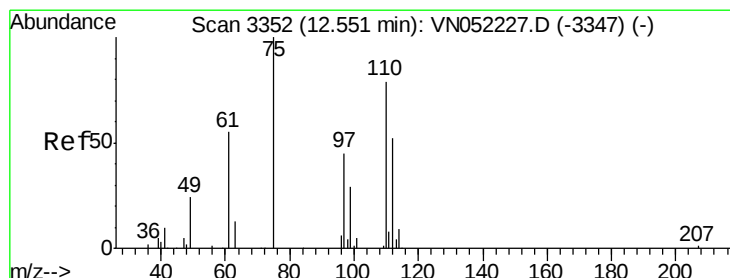
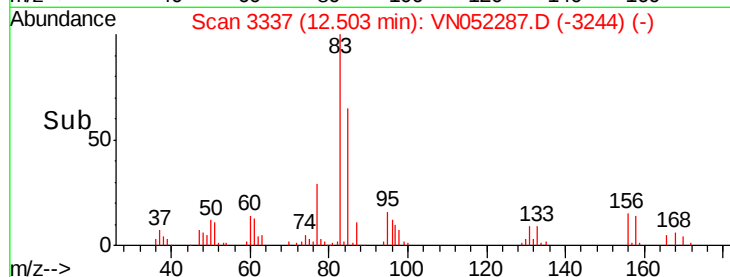
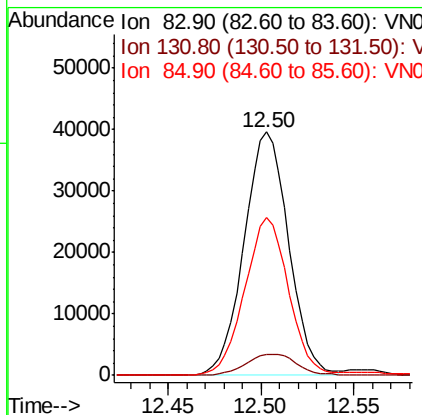
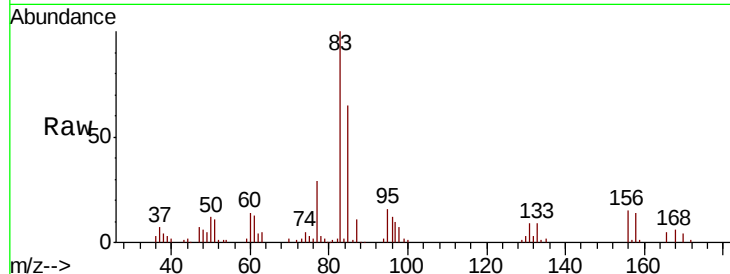
ClientSampleId :

VN1113WBSD02

Tot Ion:	83	Resp:	66446
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.1	15.2
85	63.6	32.4	97.2

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#76

1,2,3-Trichloropropane

Concen: 17.031 ug/l m

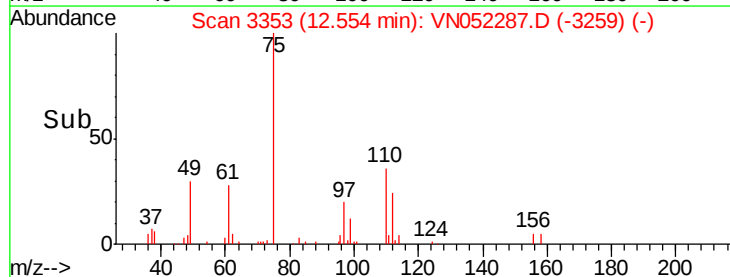
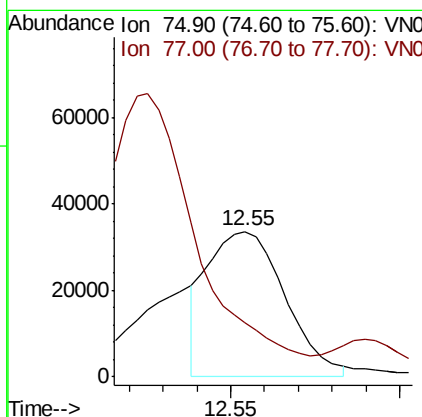
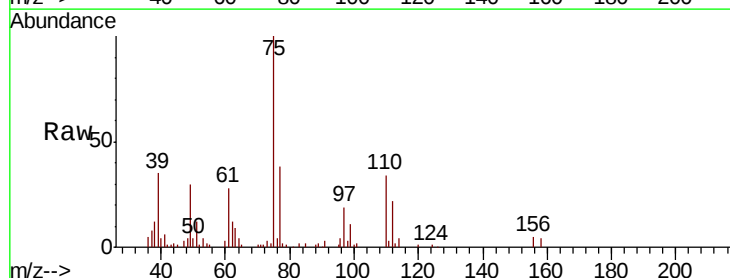
RT: 12.55 min Scan# 3353

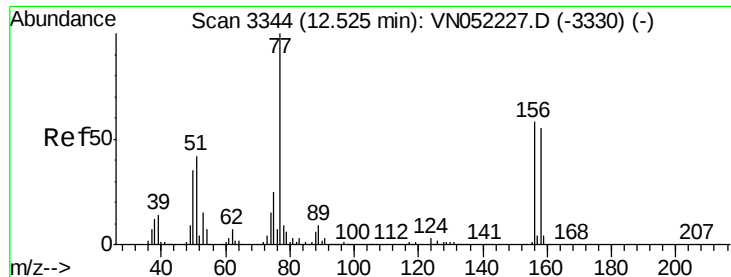
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	75	Resp:	53629
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.008 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

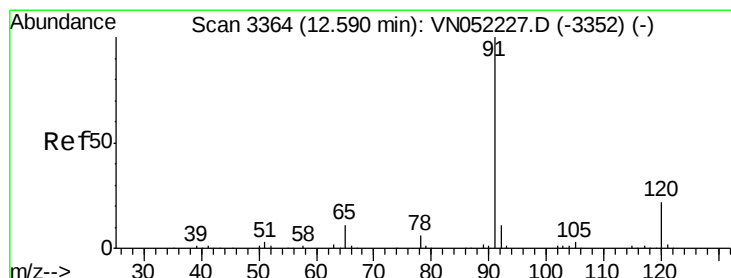
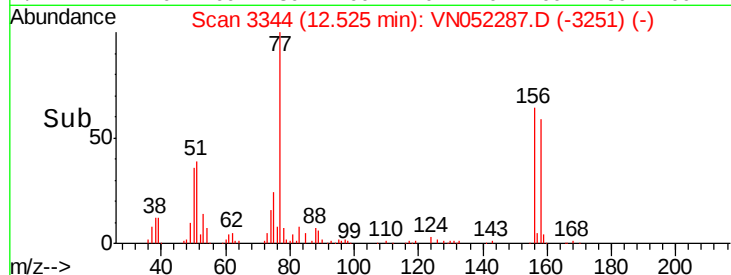
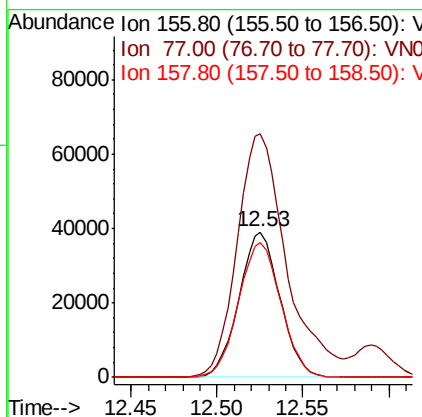
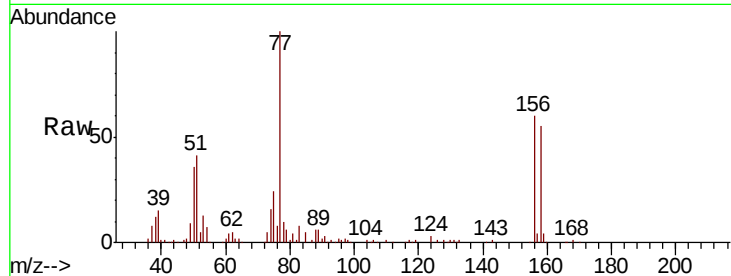
ClientSampleId :

VN1113WBSD02

Tot Ion:	156	Resp:	64733
Ion	Ratio	Lower	Upper
156	100		
77	202.9	101.1	303.3
158	96.3	47.8	143.3

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#78

n-propylbenzene

Concen: 19.267 ug/l

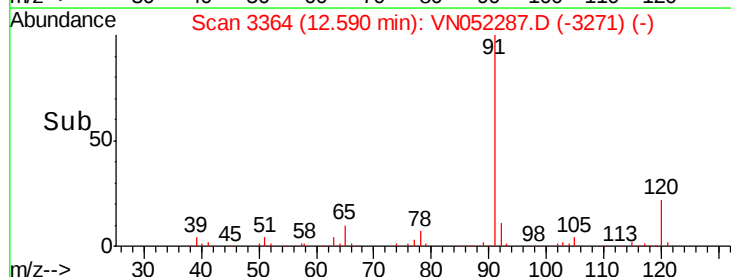
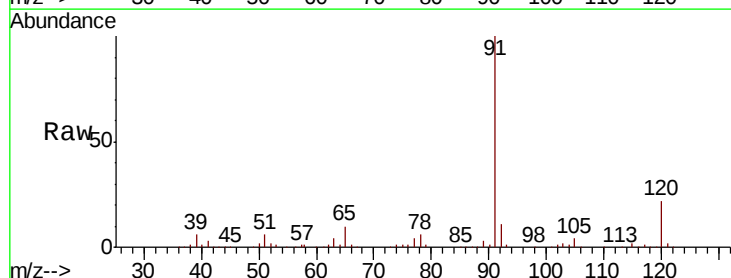
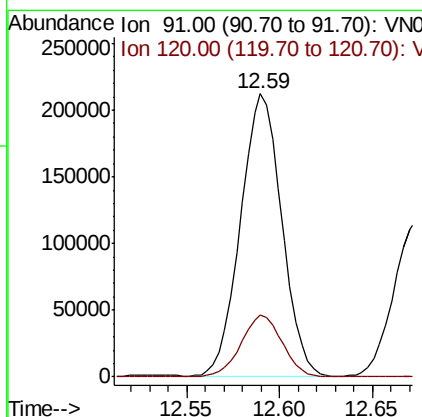
RT: 12.59 min Scan# 3364

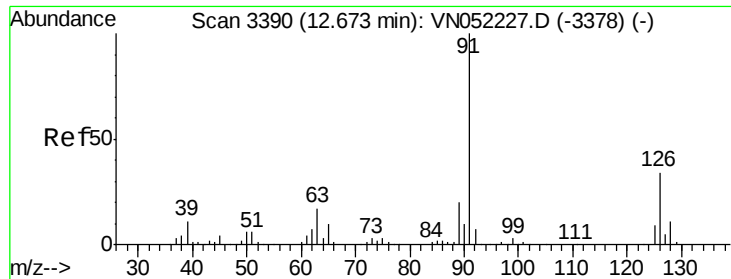
Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Tgt Ion:	91	Resp:	328306
Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.3	33.8





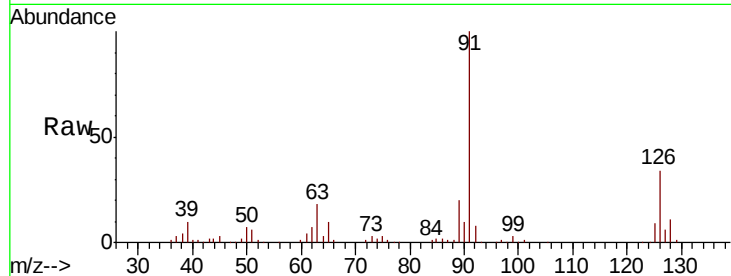
#79
 2-Chlorotoluene
 Concen: 19.472 ug/l
 RT: 12.67 min Scan# 3390
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

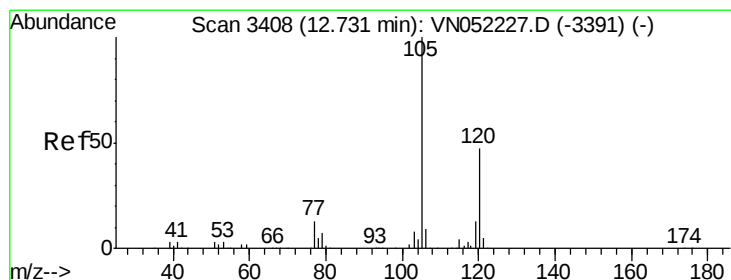
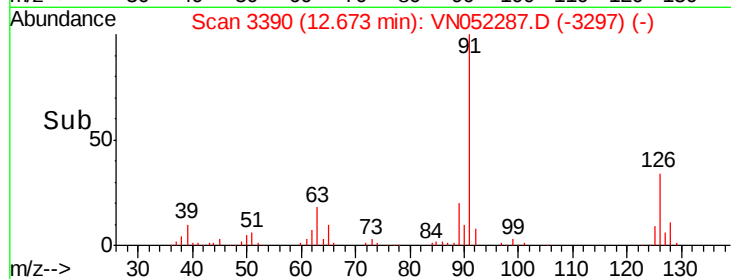
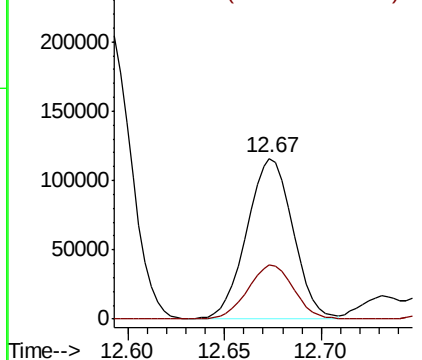
Tot Ion: 91 Resp: 192218
 Ion Ratio Lower Upper
 91 100
 126 33.6 17.0 51.0

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:28 AM

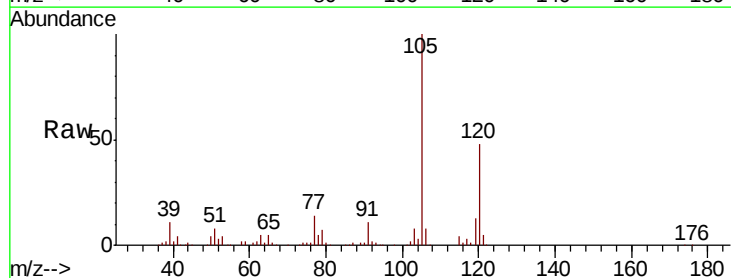


Abundance Ion 91.00 (90.70 to 91.70): VN052227.D (-3378) (-)
 Ion 125.90 (125.60 to 126.60): VN052227.D (-3378) (-)

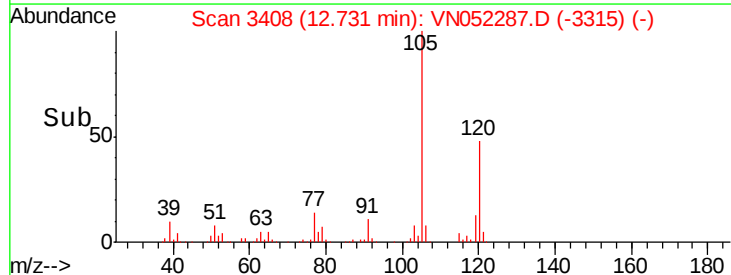
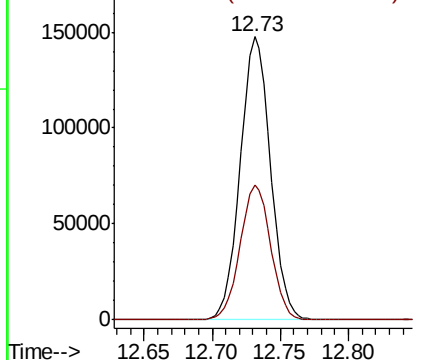


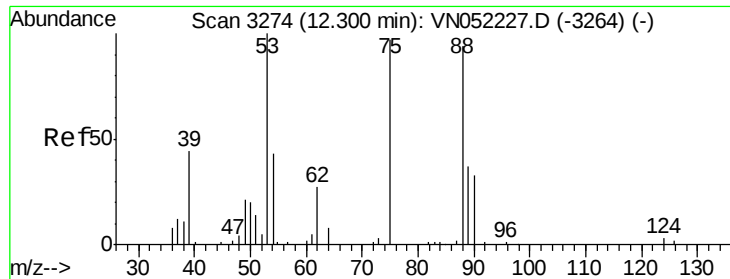
#80
 1,3,5-Trimethylbenzene
 Concen: 19.632 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion: 105 Resp: 227152
 Ion Ratio Lower Upper
 105 100
 120 48.2 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): VN052227.D (-3391) (-)
 Ion 120.00 (119.70 to 120.70): VN052227.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 15.811 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN052287.D

Acq: 13 Nov 2018 15:30

Instrument :

MSVOA_N

ClientSampleId :

VN1113WBSD02

Tot Ion: 75 Resp: 14586

Ion Ratio Lower Upper

75 100

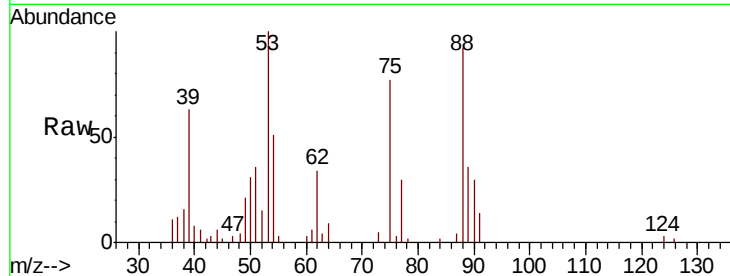
53 123.9 84.0 126.0

89 48.3 33.7 50.5

Manual Integrations
APPROVED

MMDadoda

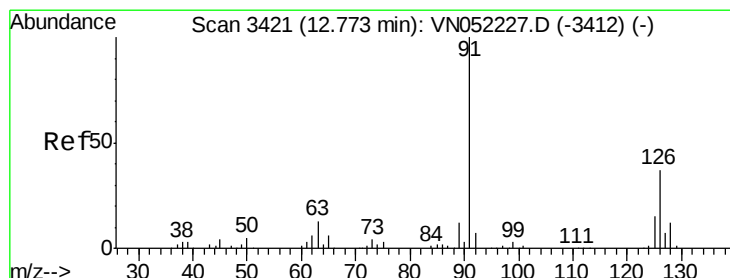
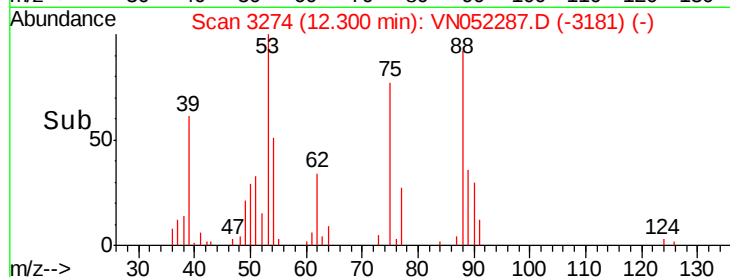
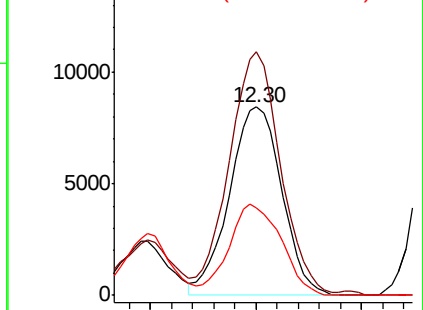
11/14/2018 11:10:28 AM



Abundance Ion 74.90 (74.60 to 75.60): VN052227.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052227.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052227.D (-3264) (-)



#82

4-Chlorotoluene

Concen: 19.430 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN052287.D

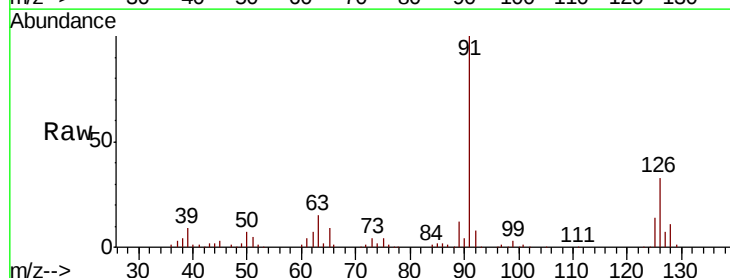
Acq: 13 Nov 2018 15:30

Tgt Ion: 91 Resp: 192459

Ion Ratio Lower Upper

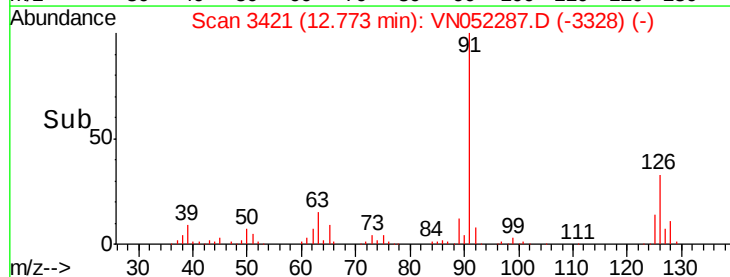
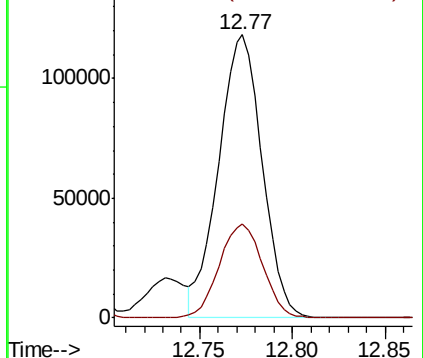
91 100

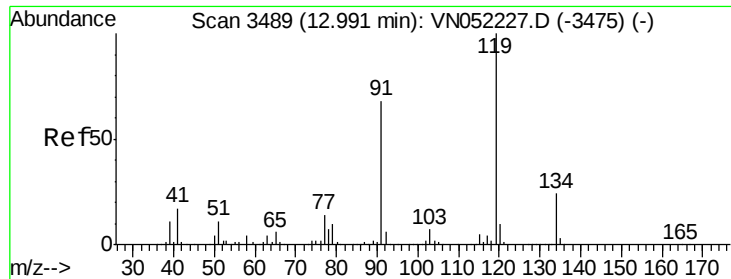
126 33.2 16.9 50.7



Abundance Ion 91.00 (90.70 to 91.70): VN052227.D (-3412) (-)

Ion 125.90 (125.60 to 126.60): VN052227.D (-3412) (-)





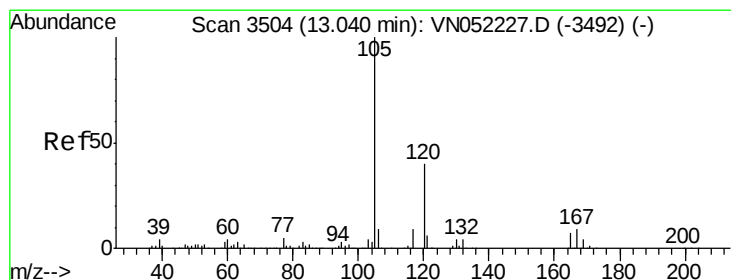
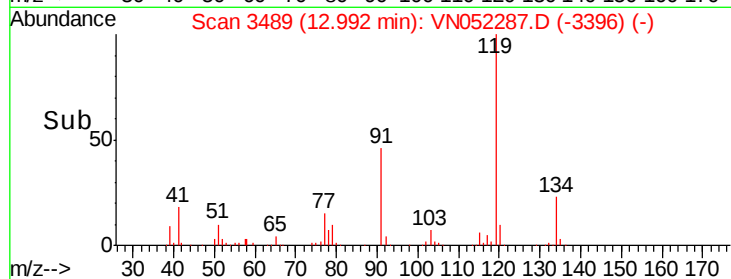
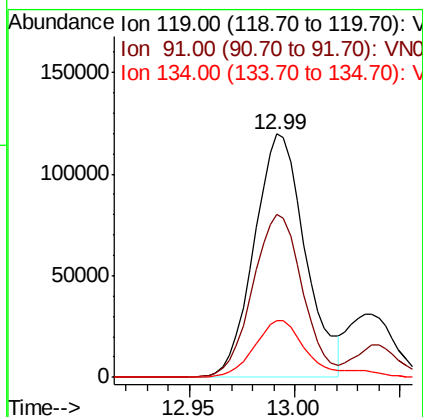
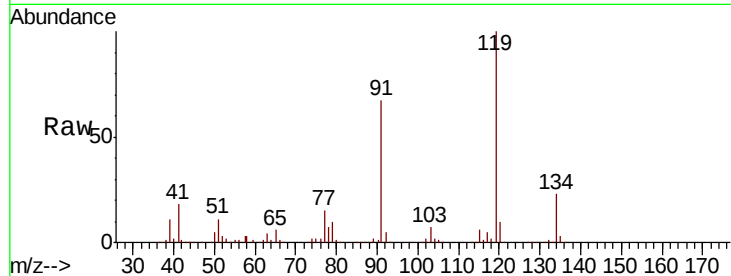
#83
tert-Butylbenzene
Concen: 19.963 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN052227.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.5	33.5	100.4
134	25.0	13.0	38.9

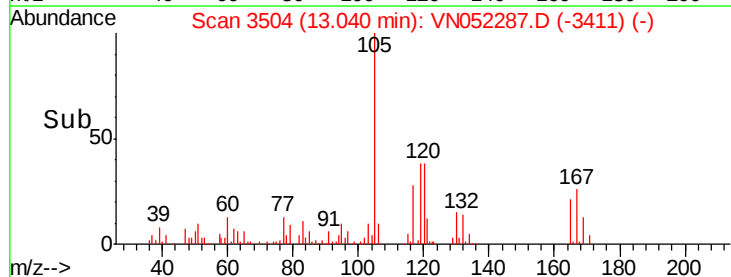
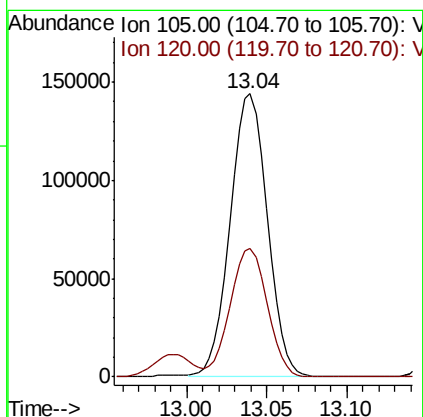
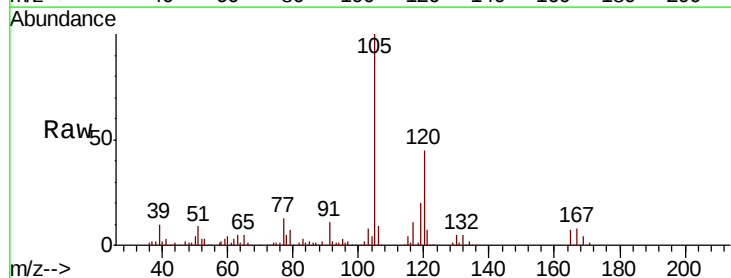
Manual Integrations
APPROVED

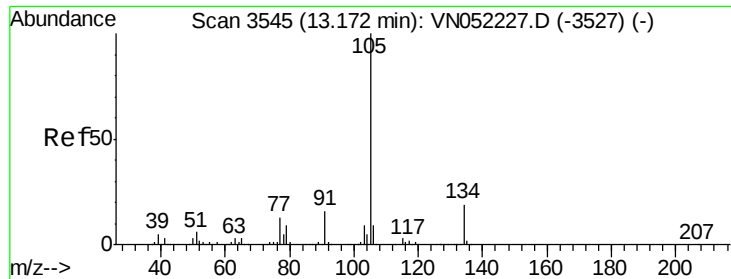
MMDadoda
11/14/2018 11:10:28 AM



#84
1,2,4-Trimethylbenzene
Concen: 19.561 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052227.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.3	22.7	68.1





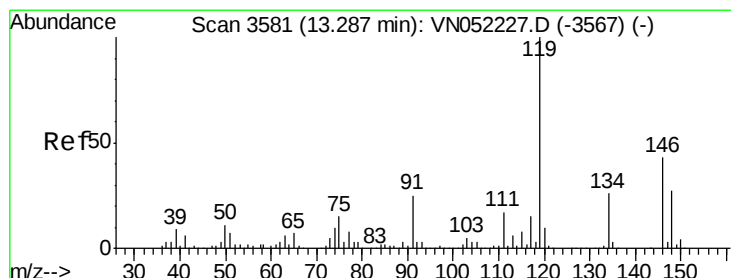
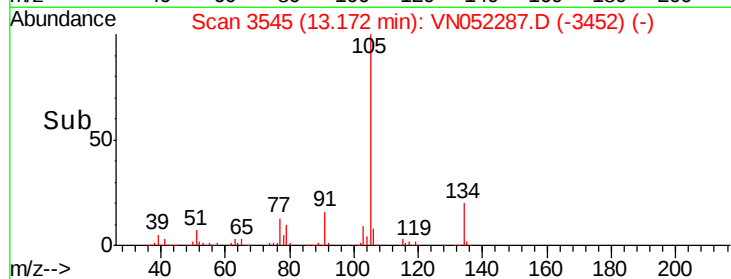
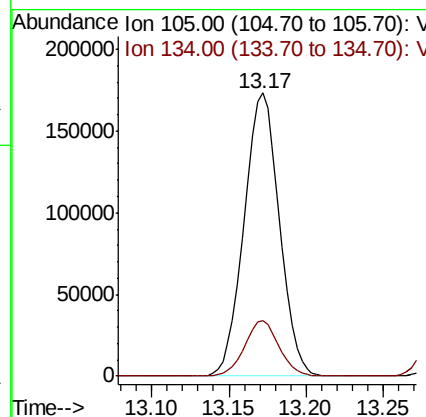
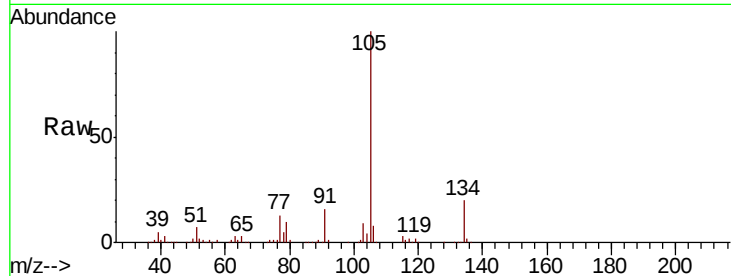
#85
 sec-Butylbenzene
 Concen: 19.862 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.7	28.9

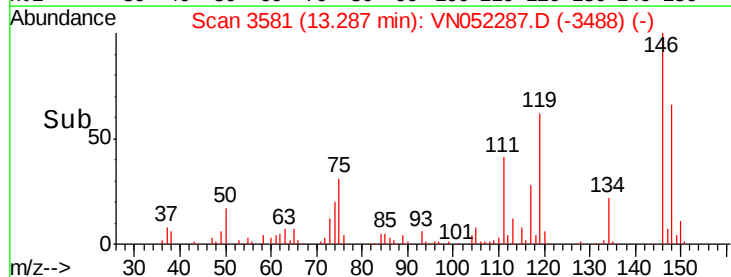
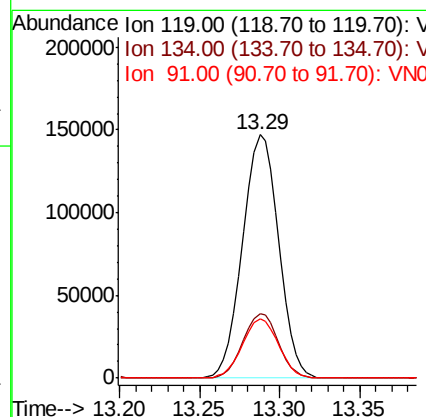
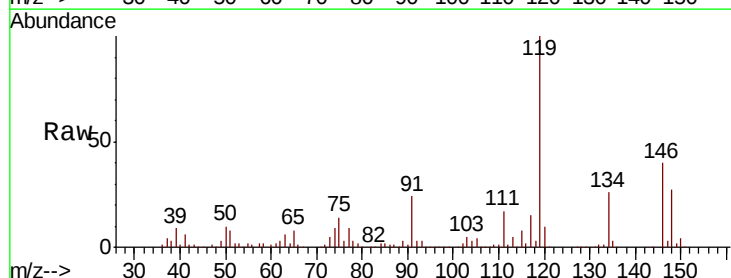
Manual Integrations
 APPROVED

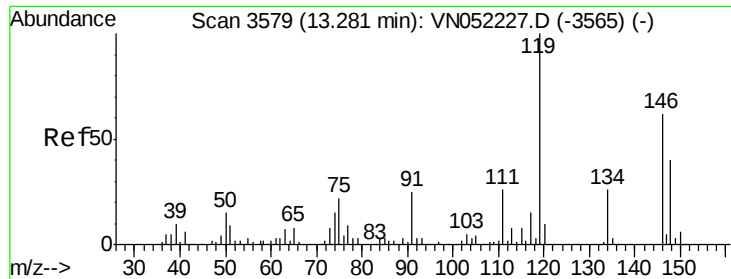
MMDadoda
 11/14/2018 11:10:28 AM



#86
 p-Isopropyltoluene
 Concen: 19.492 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.2	39.6
91	24.3	12.4	37.0





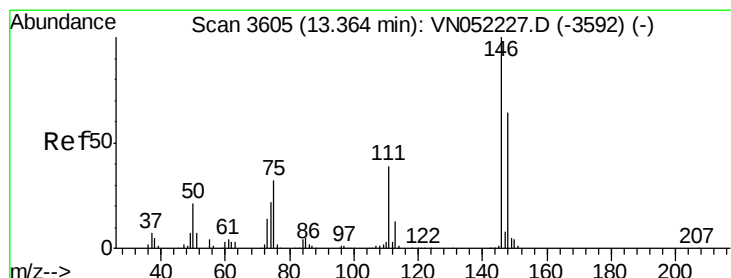
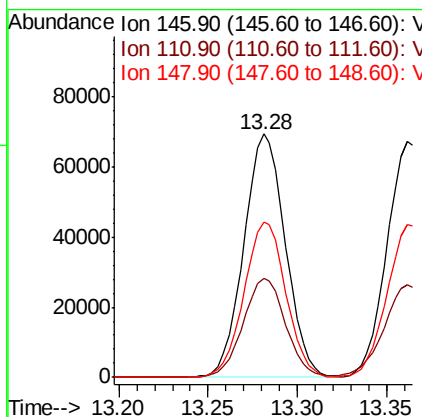
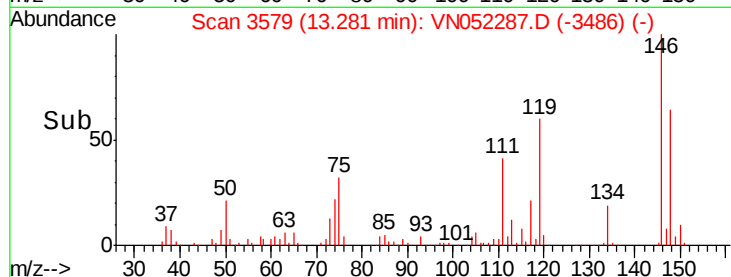
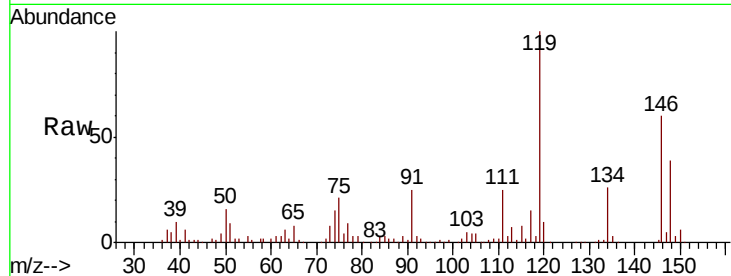
#87
 1,3-Dichlorobenzene
 Concen: 19.030 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.1	60.3
148	64.3	31.6	94.7

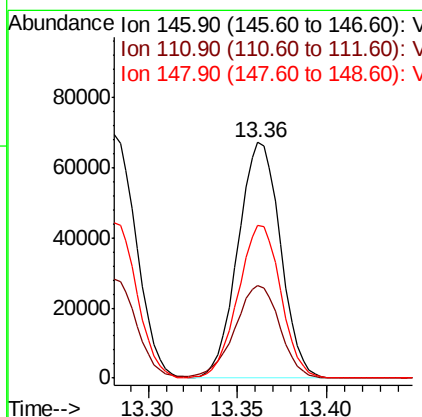
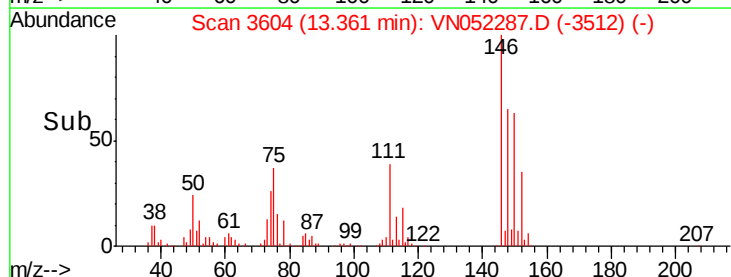
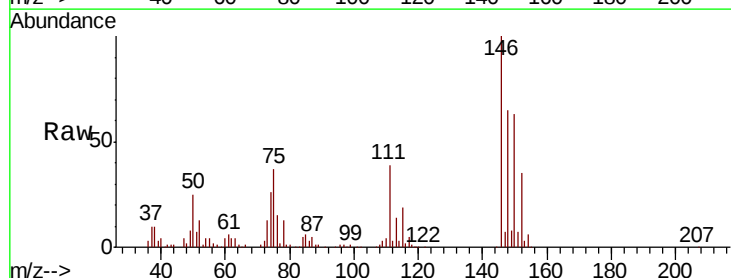
Manual Integrations
 APPROVED

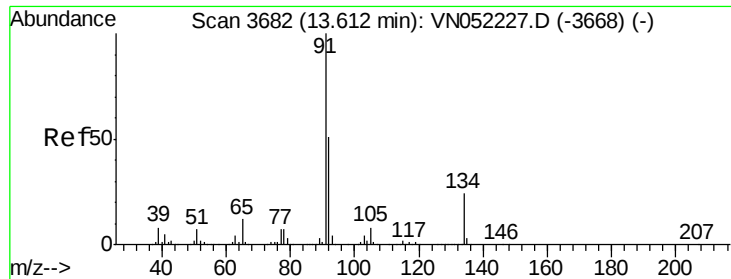
MMDadoda
 11/14/2018 11:10:28 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.830 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.6
148	65.2	32.1	96.3





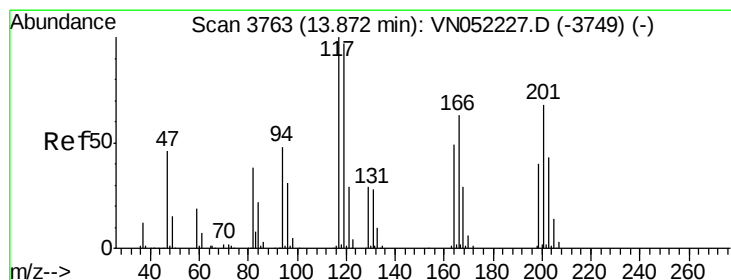
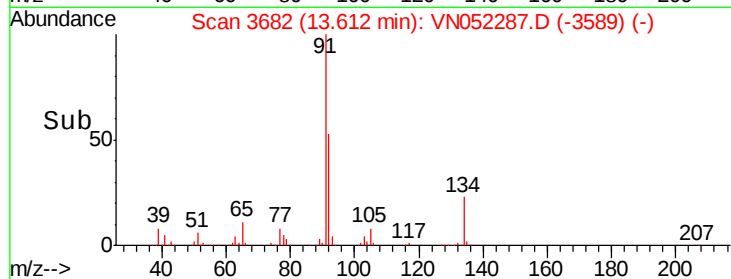
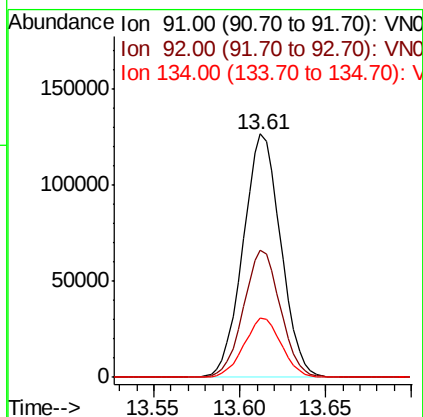
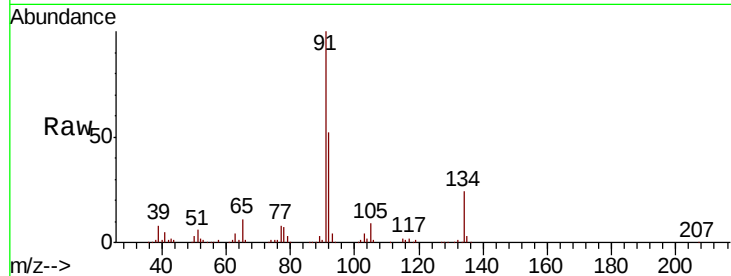
#89
n-Butylbenzene
Concen: 18.621 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.0	25.1	75.3
134	24.2	12.0	36.1

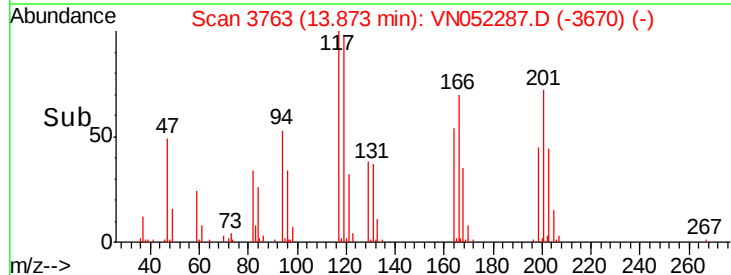
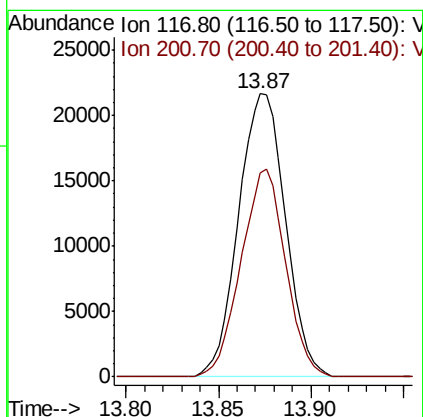
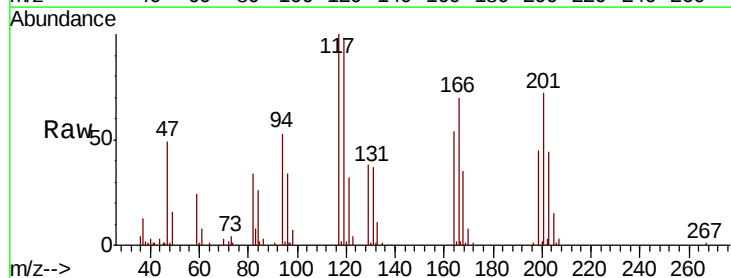
Manual Integrations
APPROVED

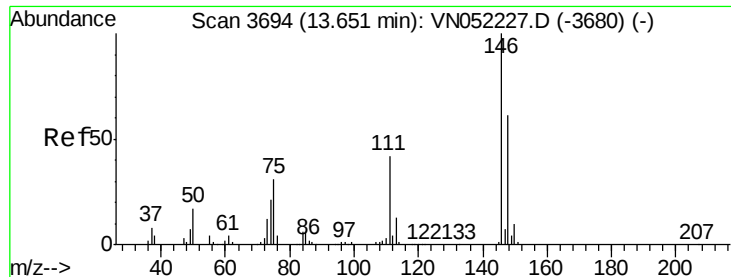
MMDadoda
11/14/2018 11:10:28 AM



#90
Hexachloroethane
Concen: 18.689 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.7	34.6	103.9





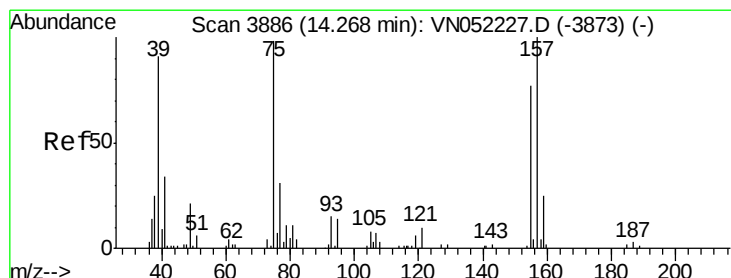
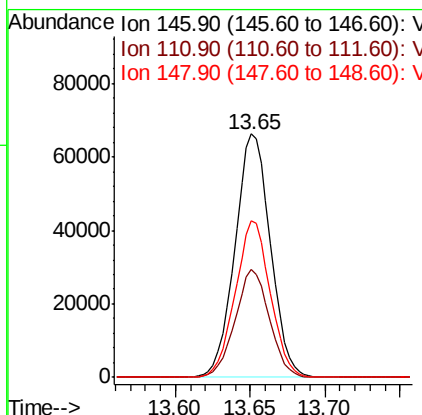
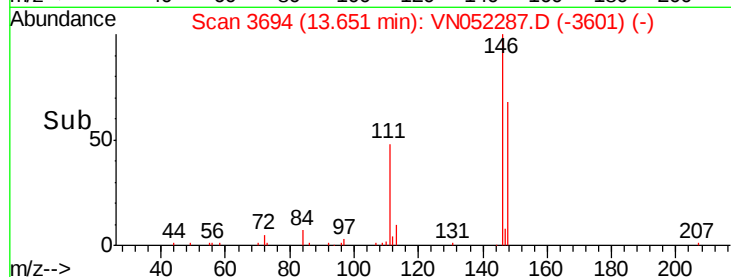
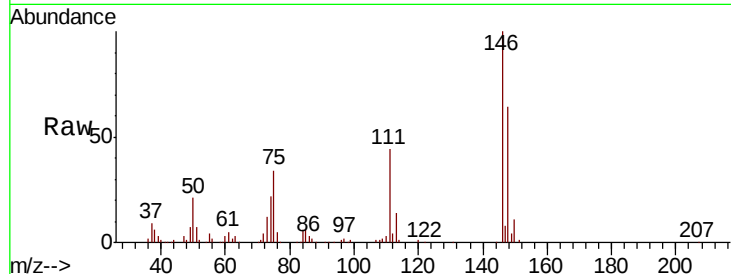
#91
 1,2-Dichlorobenzene
 Concen: 18.842 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.1	63.3
148	63.2	31.3	93.8

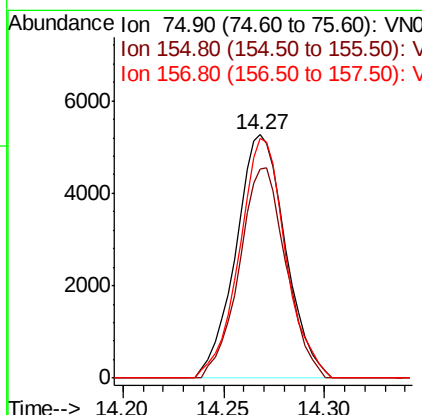
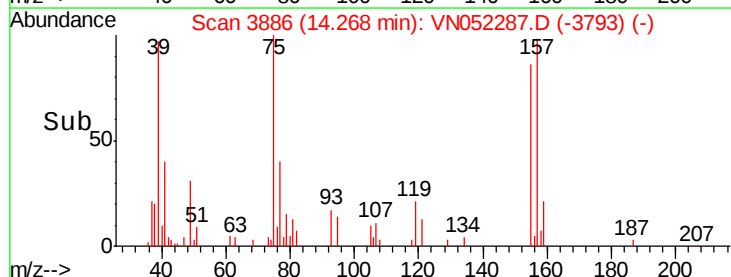
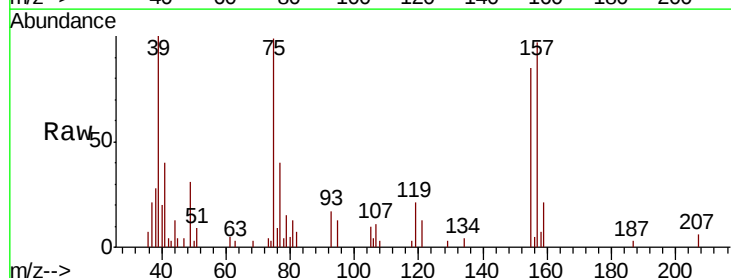
Manual Integrations
 APPROVED

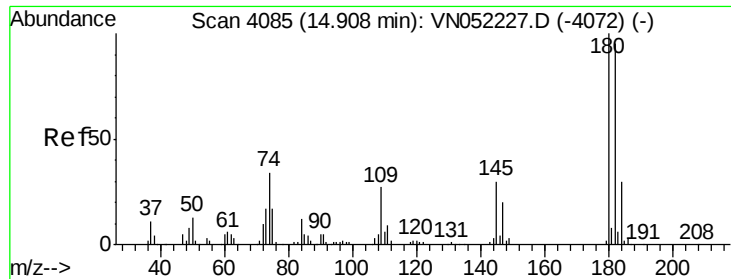
MMDadoda
 11/14/2018 11:10:28 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.838 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
75	100		
155	81.5	40.2	120.5
157	92.0	51.7	155.2





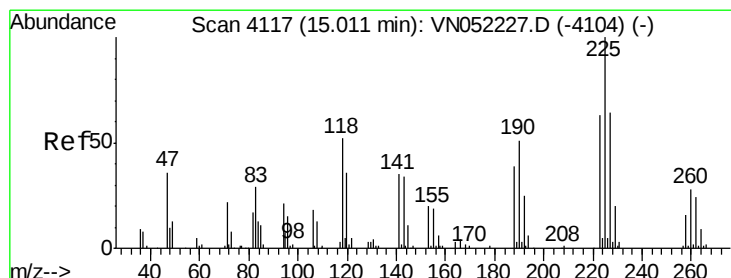
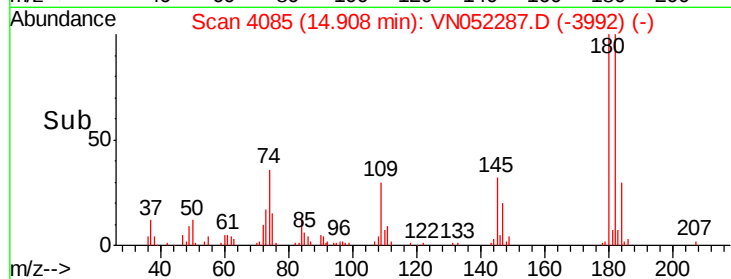
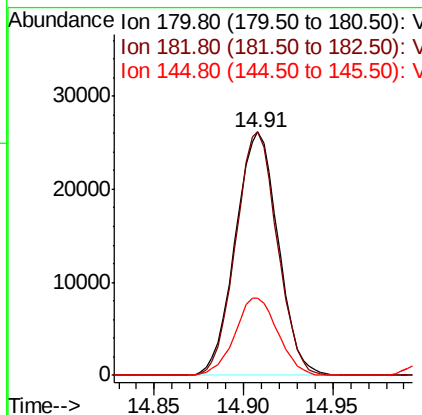
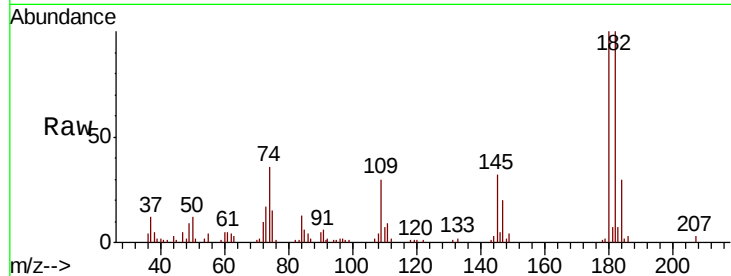
#93
 1,2,4-Trichlorobenzene
 Concen: 19.126 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.3	142.0
145	31.9	15.6	46.8

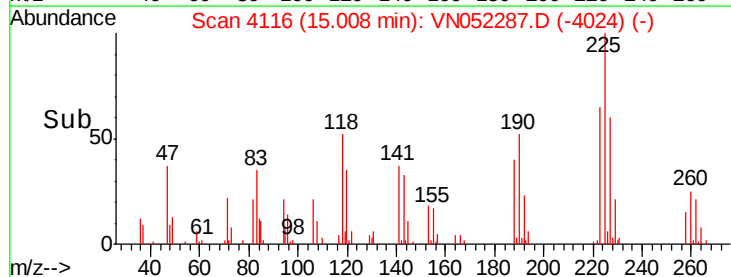
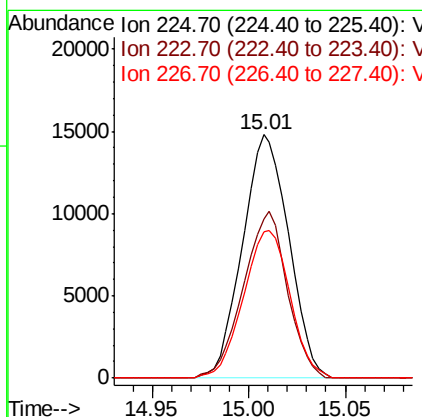
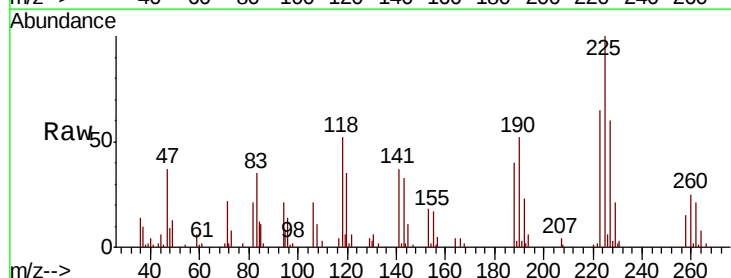
Manual Integrations
 APPROVED

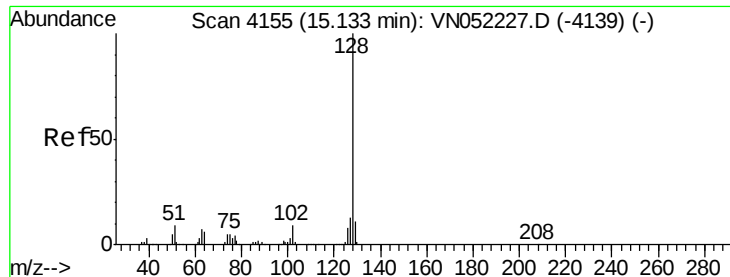
MMDadoda
 11/14/2018 11:10:28 AM



#94
 Hexachlorobutadiene
 Concen: 19.787 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052287.D
 Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.2	32.1	96.3
227	60.9	31.8	95.4





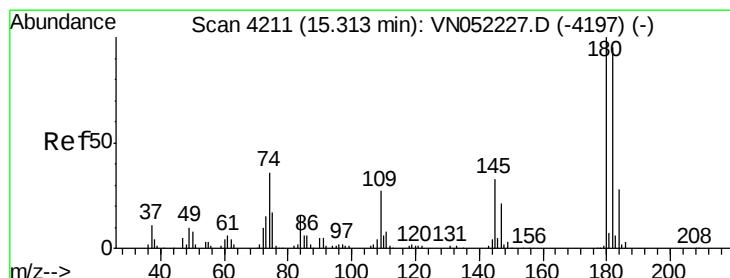
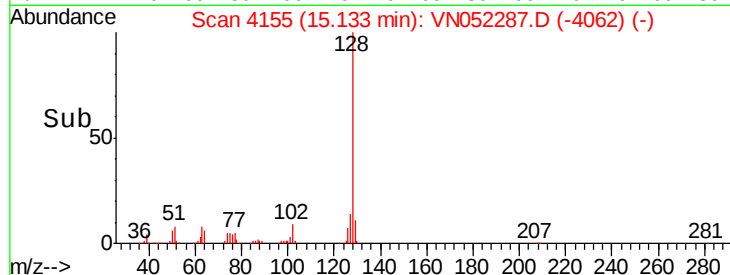
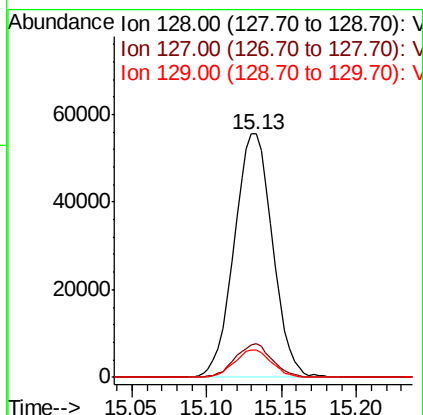
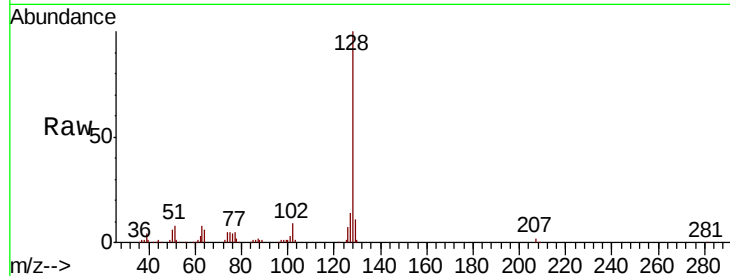
#95
Naphthalene
Concen: 17.596 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Instrument :
MSVOA_N
ClientSampleId :
VN1113WBSD02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	16.0
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/14/2018 11:10:28 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.356 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN052287.D
Acq: 13 Nov 2018 15:30

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.7	47.7	143.1
145	32.1	16.8	50.3

