

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110618\
 Data File : VN052181.D
 Acq On : 6 Nov 2018 10:21
 Operator : MD\SY
 Sample : VN1106WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Manual Integrations
 APPROVED

MMDadoda
 11/6/2018 5:58:44 PM

Quant Time: Nov 06 16:20:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 15:24:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	358339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	627370	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	550954	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	233411	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	210553	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
35) Dibromofluoromethane	7.59	113	186593	47.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.80%	
50) Toluene-d8	10.09	98	717420	47.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.28%	
62) 4-Bromofluorobenzene	12.40	95	233445	47.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	64106	20.516	ug/l	95
3) Chloromethane	2.06	50	84009	19.919	ug/l	97
4) Vinyl Chloride	2.19	62	81677	20.220	ug/l	93
5) Bromomethane	2.57	94	55976	18.536	ug/l	96
6) Chloroethane	2.71	64	50738	19.644	ug/l	96
7) Trichlorofluoromethane	3.02	101	117607	20.043	ug/l	99
8) Diethyl Ether	3.41	74	38994	19.022	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.77	101	72728	20.742	ug/l	92
10) Methyl Iodide	3.96	142	93606	18.908	ug/l	98
11) Tert butyl alcohol	4.78	59	15404	83.092	ug/l #	76
12) 1,1-Dichloroethene	3.74	96	67893	20.567	ug/l	86
13) Acrolein	3.61	56	17977	116.697	ug/l	92
14) Allyl chloride	4.33	41	106177	19.271	ug/l #	92
15) Acrylonitrile	4.99	53	122093	100.378	ug/l	98
16) Acetone	3.81	43	93360	96.978	ug/l	99
17) Carbon Disulfide	4.06	76	178226	18.920	ug/l	100
18) Methyl Acetate	4.33	43	56783	19.059	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	185801	20.432	ug/l	96
20) Methylene Chloride	4.55	84	79536	19.884	ug/l	94
21) trans-1,2-Dichloroethene	5.05	96	70874	20.645	ug/l	95
22) Diisopropyl ether	5.96	45	245505	20.212	ug/l	99
23) Vinyl Acetate	5.90	43	827462	103.574	ug/l	98
24) 1,1-Dichloroethane	5.85	63	145021	21.106	ug/l	97
25) 2-Butanone	6.84	43	142343	95.354	ug/l	96
26) 2,2-Dichloropropane	6.83	77	108837	20.252	ug/l	96
27) cis-1,2-Dichloroethene	6.83	96	84319	20.247	ug/l	93
28) Bromochloromethane	7.20	49	70783	21.760	ug/l	91
29) Tetrahydrofuran	7.21	42	93041	100.734	ug/l	99
30) Chloroform	7.37	83	143736	21.006	ug/l	98
31) Cyclohexane	7.66	56	132783	19.743	ug/l	89
32) 1,1,1-Trichloroethane	7.57	97	121696	20.050	ug/l	95
36) 1,1-Dichloropropene	7.79	75	107367	19.346	ug/l	96
37) Ethyl Acetate	6.93	43	65102	18.629	ug/l #	79
38) Carbon Tetrachloride	7.78	117	104752	18.892	ug/l	98

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Manual Integrations
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MMDadoda
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Quant Time: Nov 06 16:20:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 15:24:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	129623	19.721	ug/l	95
40) Benzene	8.04	78	318055	19.495	ug/l	99
41) Methacrylonitrile	7.17	41	31339	17.446	ug/l #	74
42) 1,2-Dichloroethane	8.13	62	102320	19.509	ug/l	95
43) Isopropyl Acetate	8.17	43	117639	18.577	ug/l	99
44) Trichloroethene	8.84	130	80716	18.686	ug/l	87
45) 1,2-Dichloropropane	9.12	63	87428	20.234	ug/l	97
46) Dibromomethane	9.21	93	51189	18.629	ug/l #	91
47) Bromodichloromethane	9.40	83	106029	19.785	ug/l #	96
48) Methyl methacrylate	9.20	41	59369	19.479	ug/l	99
49) 1,4-Dioxane	9.20	88	8220	305.480	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	320876	95.914	ug/l	100
52) Toluene	10.16	92	196408	19.964	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	97853	18.613	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	120393	19.570	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	69192	19.947	ug/l	95
56) Ethyl methacrylate	10.43	69	85361	18.880	ug/l	99
57) 1,3-Dichloropropane	10.71	76	117023	19.150	ug/l	95
58) 2-Chloroethyl Vinyl ether	9.70	63	219274	90.116	ug/l	95
59) 2-Hexanone	10.75	43	215518	92.542	ug/l	99
60) Dibromochloromethane	10.90	129	74680	18.932	ug/l	98
61) 1,2-Dibromoethane	11.00	107	68276	19.391	ug/l	99
64) Tetrachloroethene	10.63	164	73150	20.494	ug/l	91
65) Chlorobenzene	11.43	112	217374	19.357	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	75978	20.146	ug/l	96
67) Ethyl Benzene	11.51	91	367722	19.715	ug/l	98
68) m/p-Xylenes	11.62	106	285456	39.663	ug/l	90
69) o-Xylene	11.95	106	138216	19.803	ug/l	92
70) Styrene	11.96	104	219919	19.904	ug/l	94
71) Bromoform	12.13	173	40164	17.874	ug/l #	99
73) Isopropylbenzene	12.25	105	355399	20.138	ug/l	97
74) N-amyl acetate	12.07	43	98932	18.450	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	77418	20.041	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	69770m	22.615	ug/l	
77) Bromobenzene	12.53	156	83130	19.753	ug/l	79
78) n-propylbenzene	12.59	91	403108	19.986	ug/l	97
79) 2-Chlorotoluene	12.67	91	233821	19.769	ug/l	91
80) 1,3,5-Trimethylbenzene	12.73	105	284405	19.909	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.30	75	19890	19.389	ug/l	98
82) 4-Chlorotoluene	12.77	91	236659	19.908	ug/l	91
83) tert-Butylbenzene	12.99	119	252149	19.990	ug/l	92
84) 1,2,4-Trimethylbenzene	13.04	105	284782	20.027	ug/l	95
85) sec-Butylbenzene	13.17	105	335838	19.690	ug/l	96
86) p-Isopropyltoluene	13.29	119	284731	19.833	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	144125	19.379	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	140667	18.924	ug/l	99
89) n-Butylbenzene	13.61	91	239033	19.229	ug/l	97
90) Hexachloroethane	13.87	117	46733	19.315	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	135542	19.420	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.27	75	10585	20.757	ug/l	81

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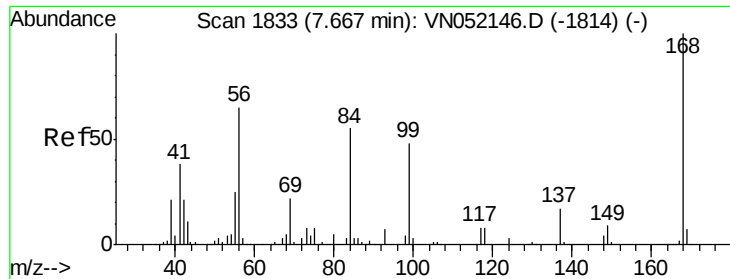
Manual Integrations
APPROVED

MMDadoda
11/6/2018 5:58:44 PM

Quant Time: Nov 06 16:20:56 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 05 15:24:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	51894	17.296	ug/l	97
94) Hexachlorobutadiene	15.01	225	33130	19.994	ug/l	97
95) Naphthalene	15.13	128	120811	16.902	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	48313	18.184	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion:168 Resp: 358339

Ion Ratio Lower Upper

168 100

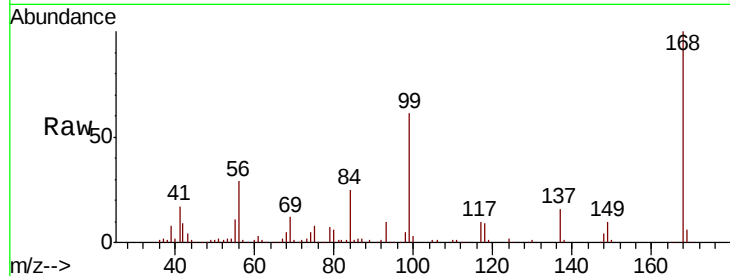
99 60.3 56.6 85.0

Manual Integrations

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11/6/2018 5:58:44 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

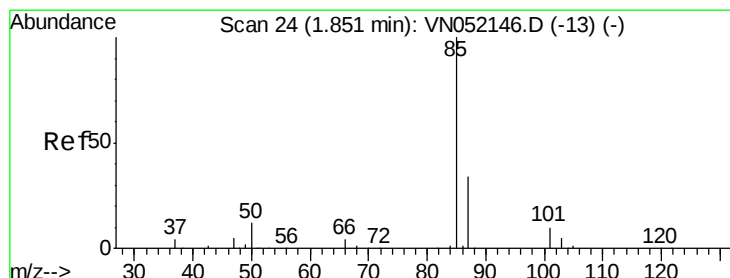
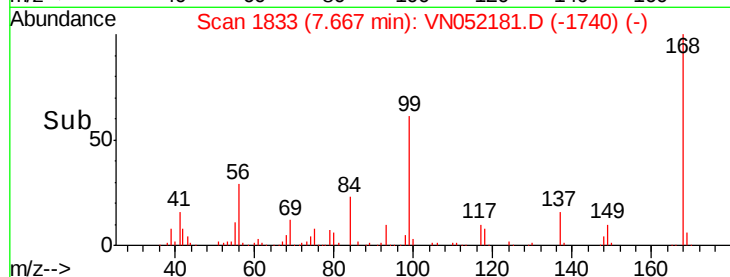
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#2

Dichlorodifluoromethane

Concen: 20.516 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN052181.D

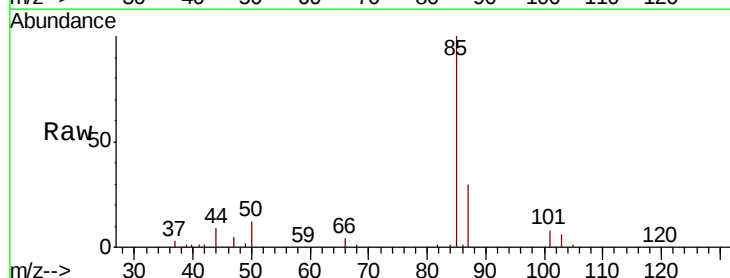
Acq: 6 Nov 2018 10:21

Tgt Ion: 85 Resp: 64106

Ion Ratio Lower Upper

85 100

87 29.5 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

50000

40000

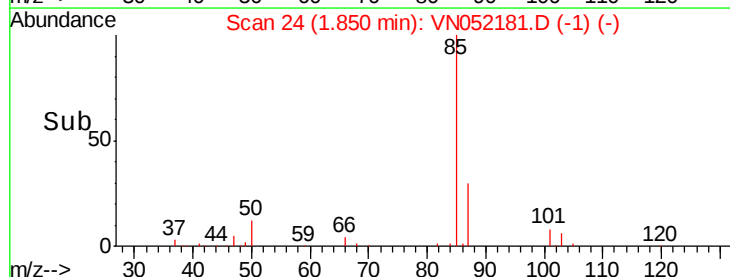
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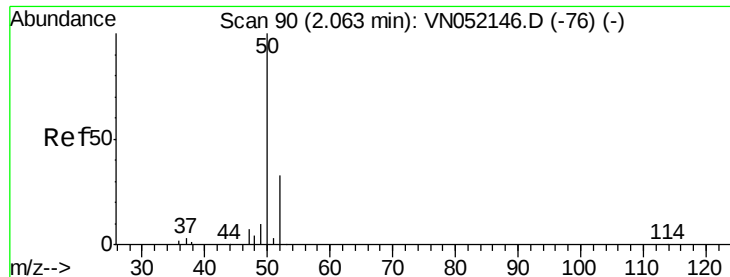
20000

10000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: 19.919 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 50 Resp: 84009

Ion Ratio Lower Upper

50 100

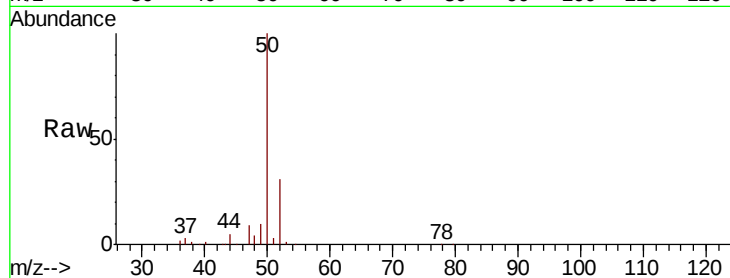
52 31.4 26.6 39.8

Manual Integrations

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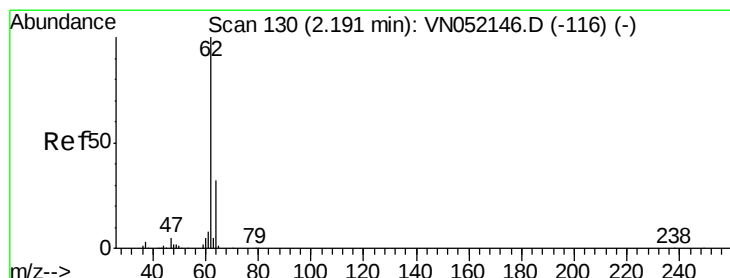
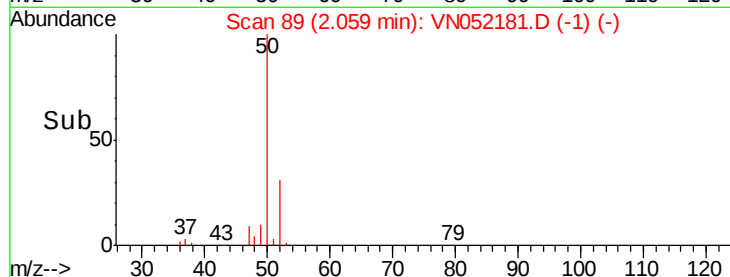
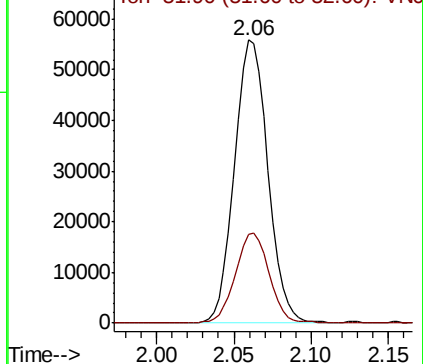
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Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 20.220 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN052181.D

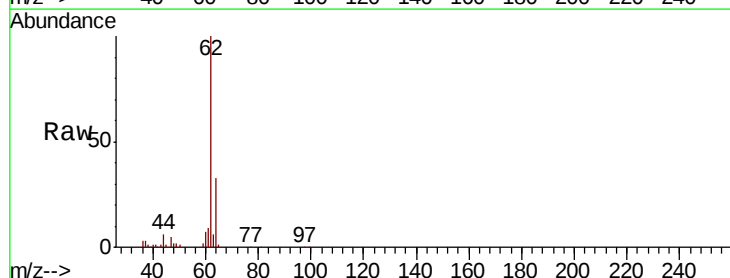
Acq: 6 Nov 2018 10:21

Tgt Ion: 62 Resp: 81677

Ion Ratio Lower Upper

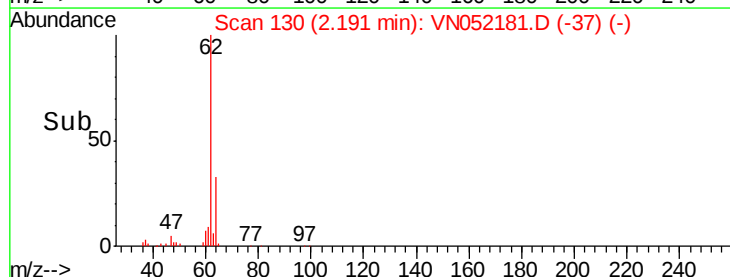
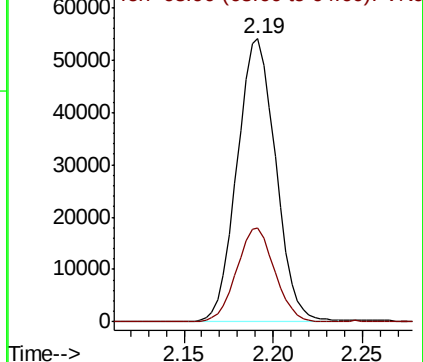
62 100

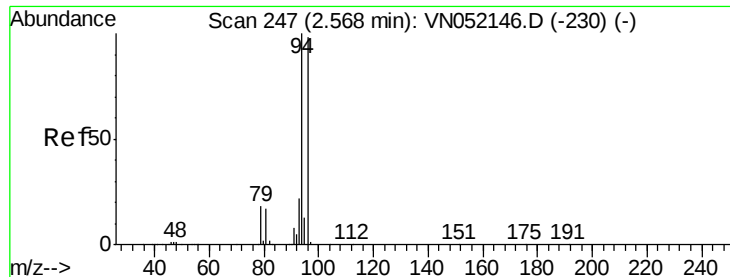
64 33.3 23.7 35.5



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 18.536 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 94 Resp: 55976

Ion Ratio Lower Upper

94 100

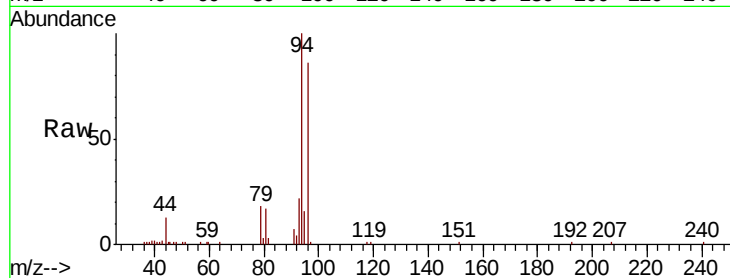
96 85.6 71.8 107.6

Manual Integrations

APPROVED

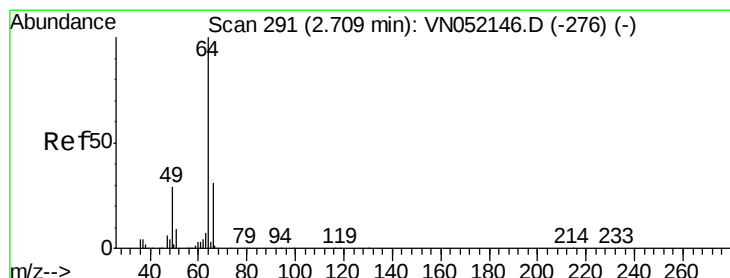
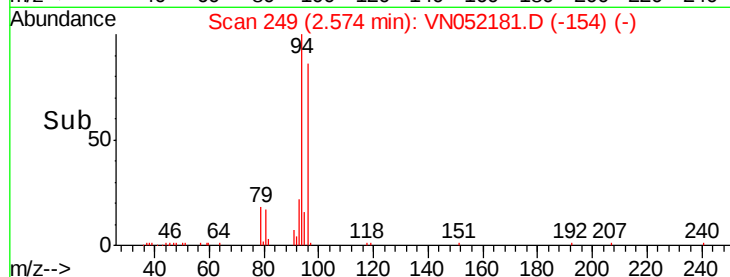
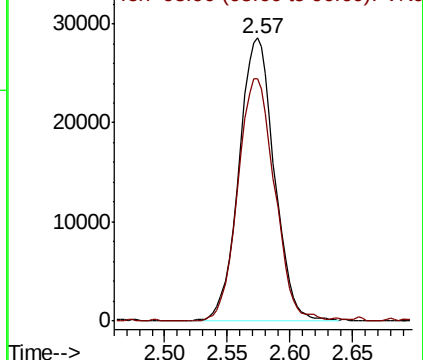
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.644 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN052181.D

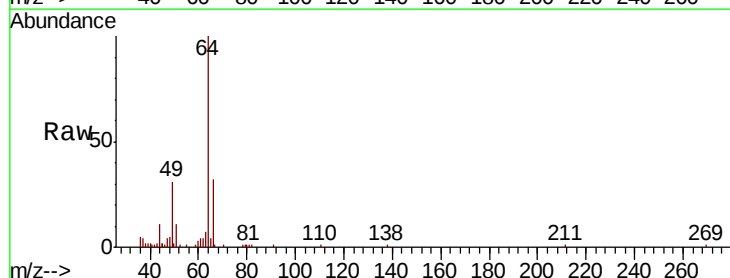
Acq: 6 Nov 2018 10:21

Tgt Ion: 64 Resp: 50738

Ion Ratio Lower Upper

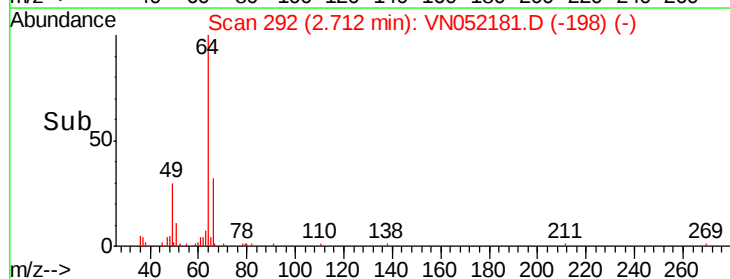
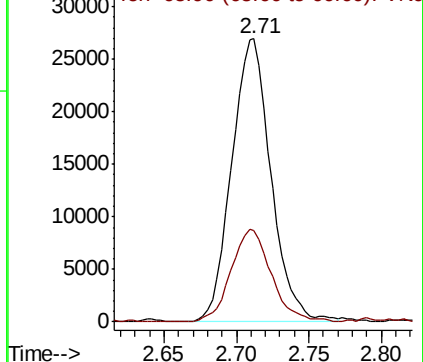
64 100

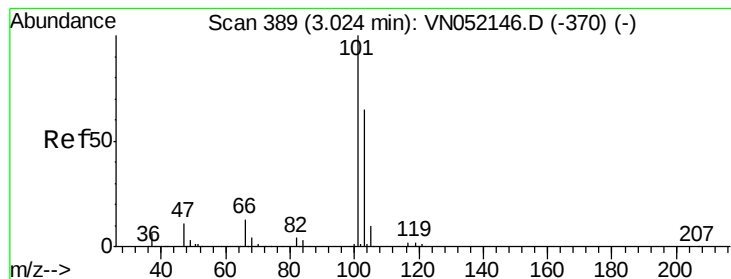
66 32.3 27.9 41.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

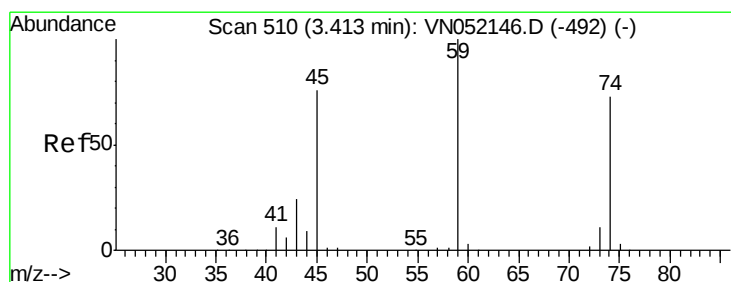
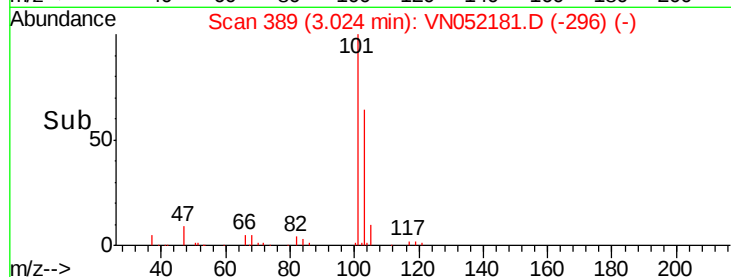
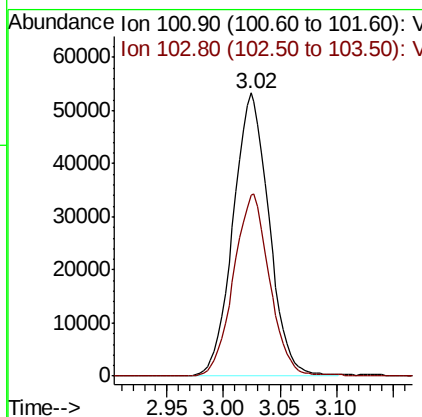
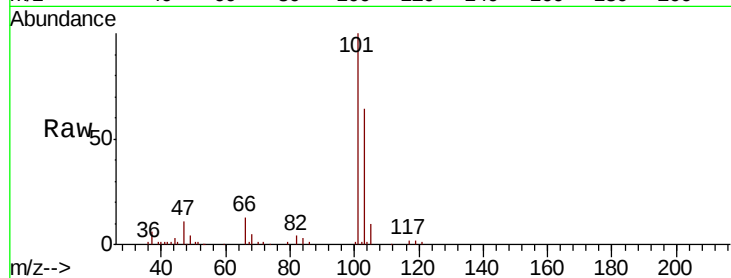
Trichlorofluoromethane
Concen: 20.043 ug/l
RT: 3.02 min Scan# 389
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
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ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.0	76.4

Manual Integrations
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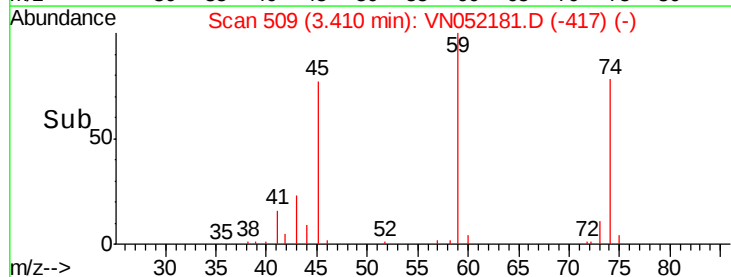
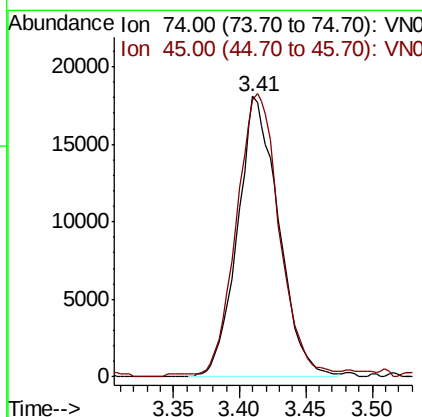
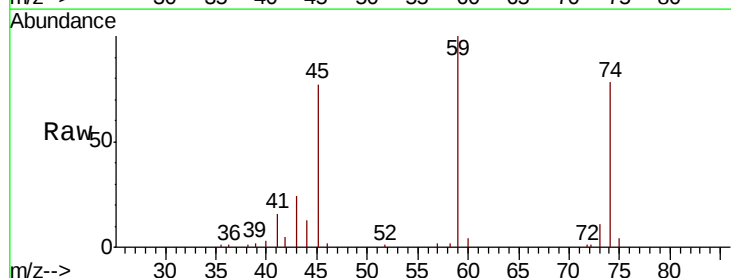
MMDadoda
11/6/2018 5:58:44 PM

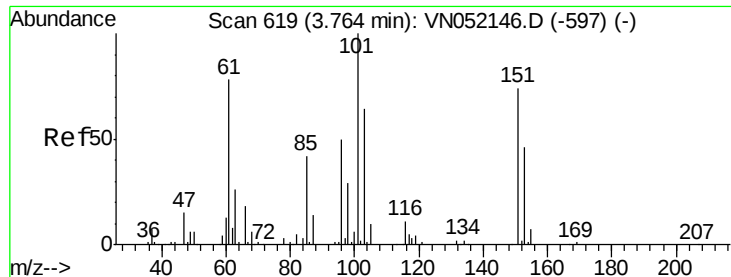


#8

Diethyl Ether
Concen: 19.022 ug/l
RT: 3.41 min Scan# 509
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.9	55.6	166.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.742 ug/l

RT: 3.77 min Scan# 621

Delta R.T. 0.01 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

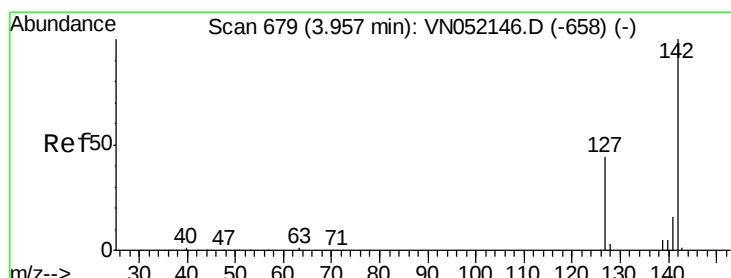
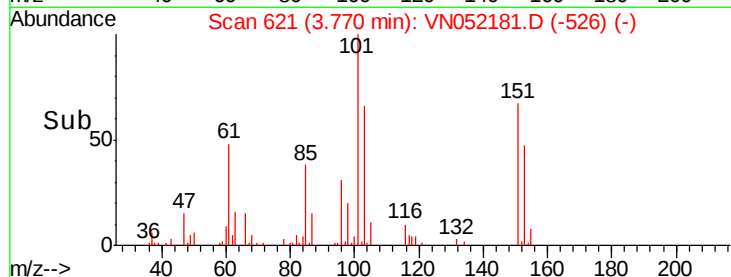
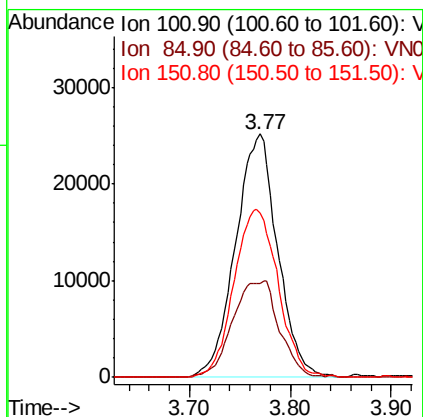
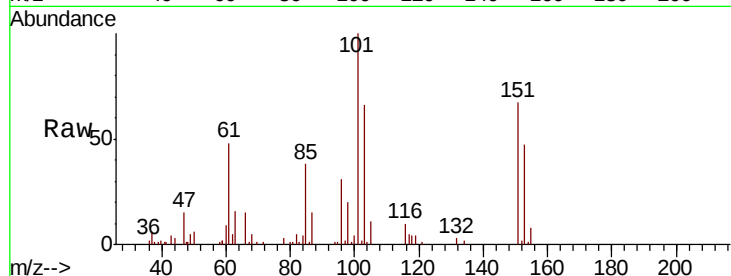
ClientSampleId :

VN1106WBS02

Tot Ion:	101	Resp:	72728
Ion Ratio	Lower	Upper	
101	100		
85	43.8	38.6	58.0
151	72.2	52.6	78.8

Manual Integrations
APPROVED

MMDadoda
11/6/2018 5:58:44 PM



#10

Methyl Iodide

Concen: 18.908 ug/l

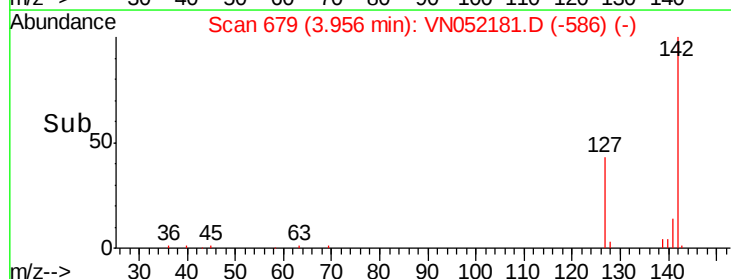
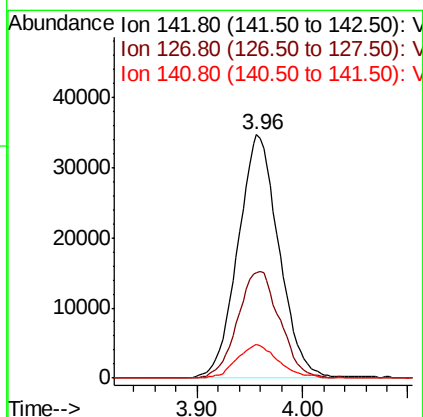
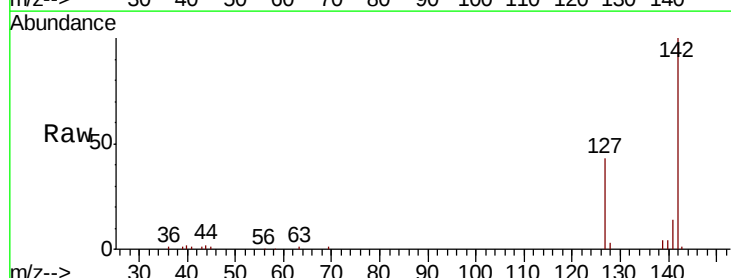
RT: 3.96 min Scan# 679

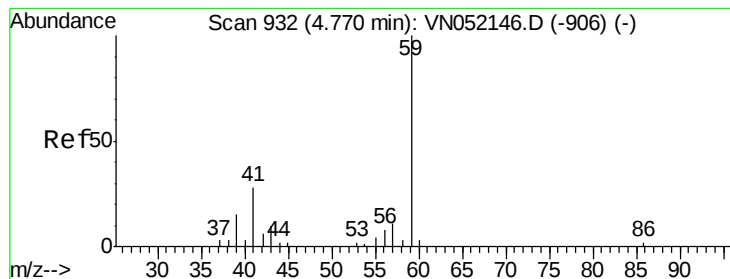
Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion:	142	Resp:	93606
Ion Ratio	Lower	Upper	
142	100		
127	44.9	37.3	55.9
141	13.9	11.4	17.2





#11

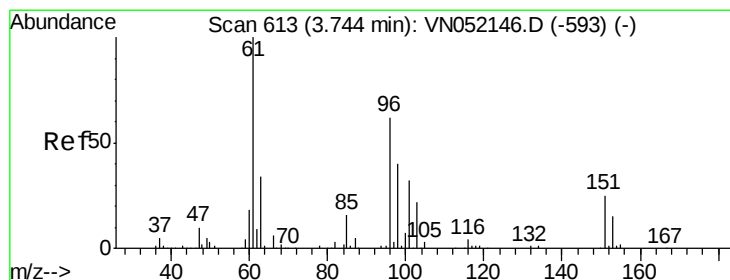
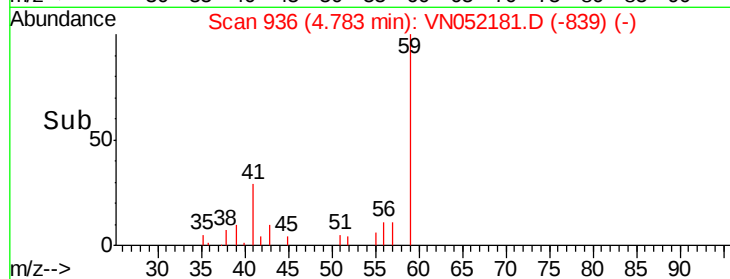
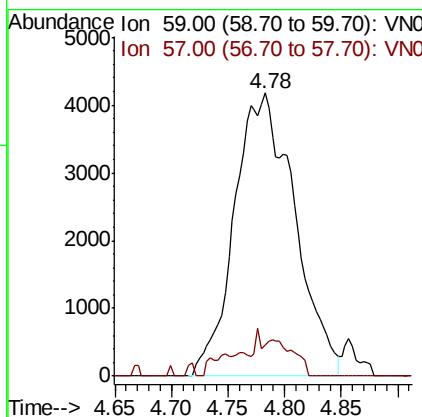
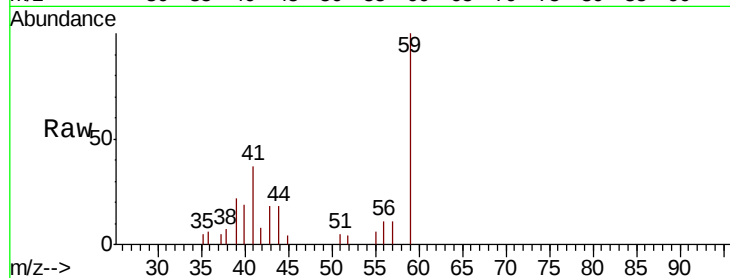
Tert butyl alcohol
 Concen: 83.092 ug/l
 RT: 4.78 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	7.0	10.6#

Manual Integrations
 APPROVED

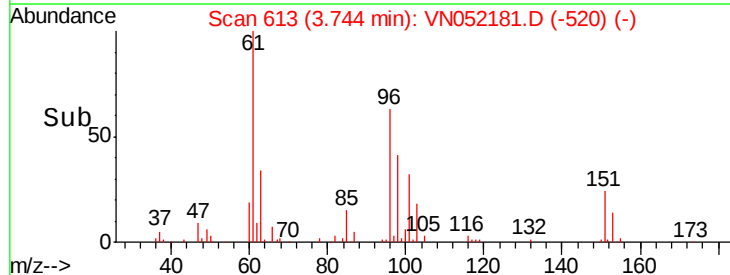
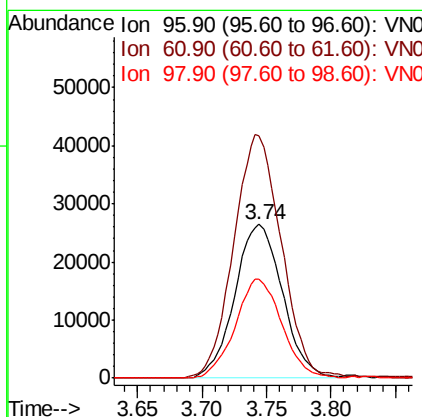
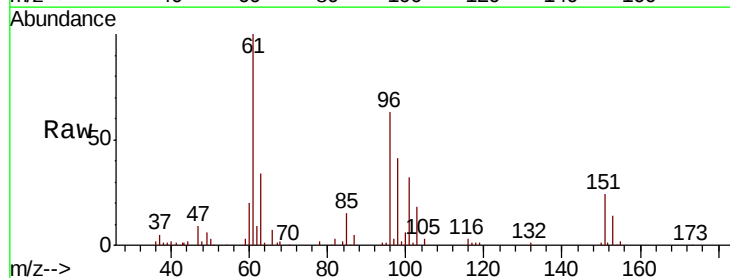
MMDadoda
 11/6/2018 5:58:44 PM

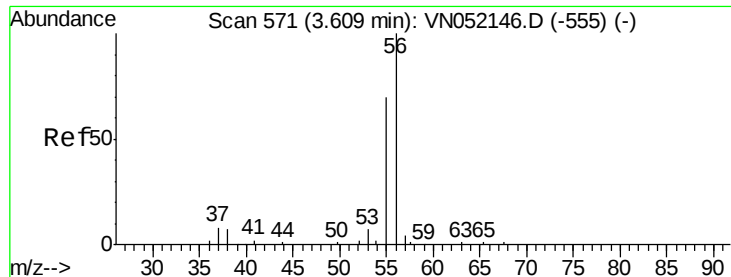


#12

1,1-Dichloroethene
 Concen: 20.567 ug/l
 RT: 3.74 min Scan# 613
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.2	145.7	218.5
98	64.6	49.8	74.8





#13

Acrolein

Concen: 116.697 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 56 Resp: 17977

Ion Ratio Lower Upper

56 100

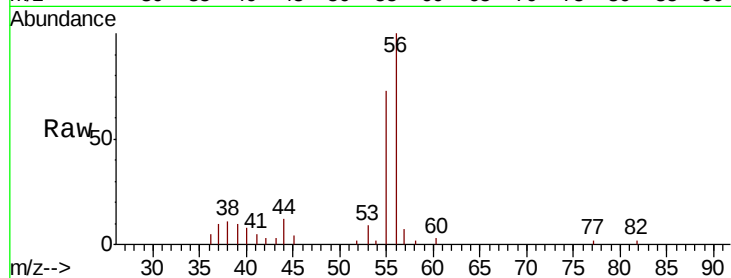
55 67.9 59.9 89.9

Manual Integrations

APPROVED

MMDadoda

11/6/2018 5:58:44 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

8000

6000

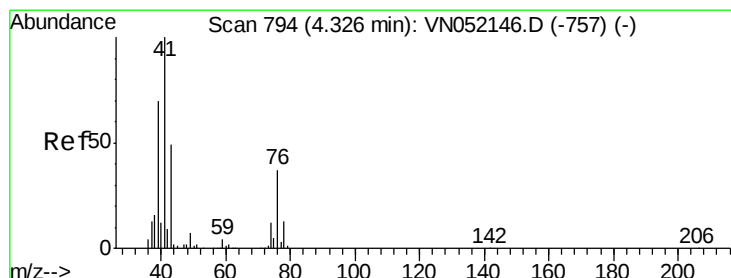
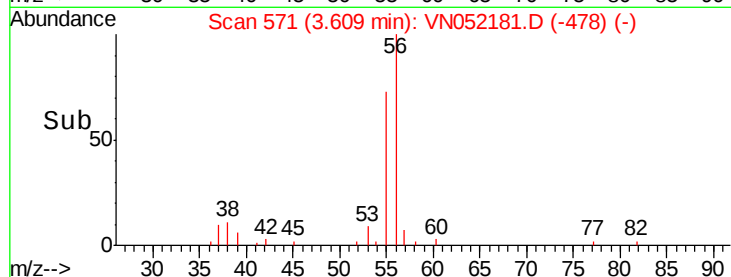
4000

2000

0

3.50 3.55 3.60 3.65 3.70

Time-->



#14

Allyl chloride

Concen: 19.271 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

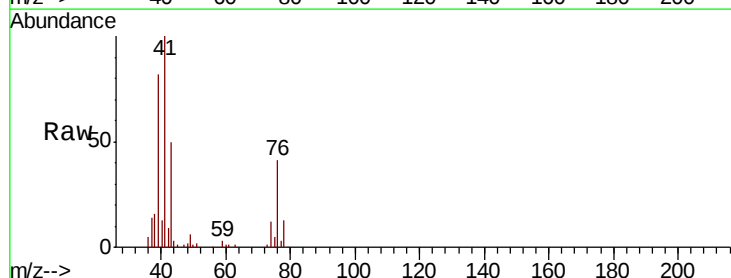
Tgt Ion: 41 Resp: 106177

Ion Ratio Lower Upper

41 100

39 78.0 58.1 87.1

76 39.3 26.0 39.0#



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

50000

40000

30000

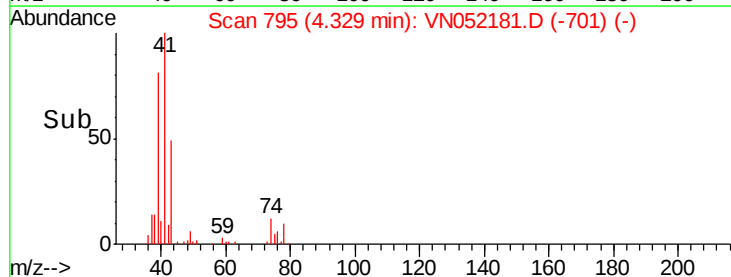
20000

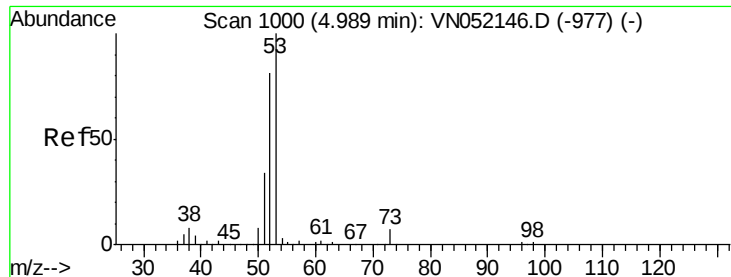
10000

0

4.25 4.30 4.35 4.40

Time-->





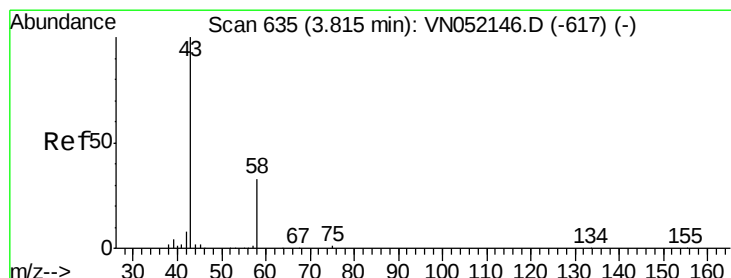
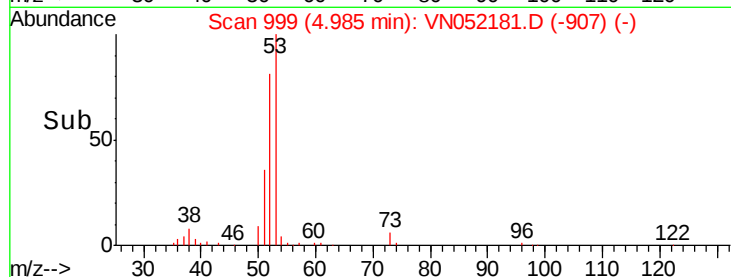
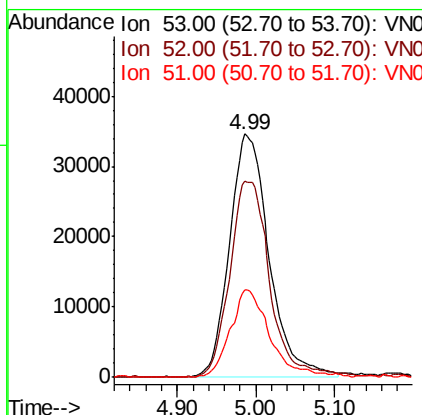
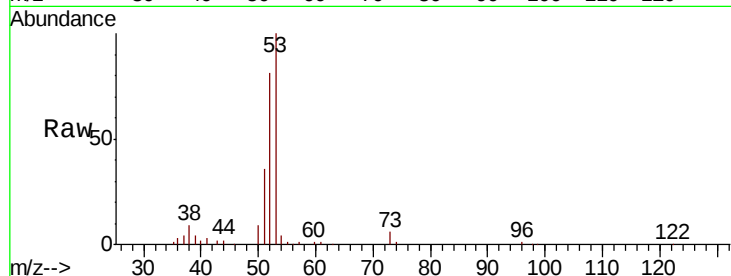
#15
 Acrylonitrile
 Concen: 100.378 ug/l
 RT: 4.99 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
53	100		
52	80.8	66.6	100.0
51	35.2	29.0	43.6

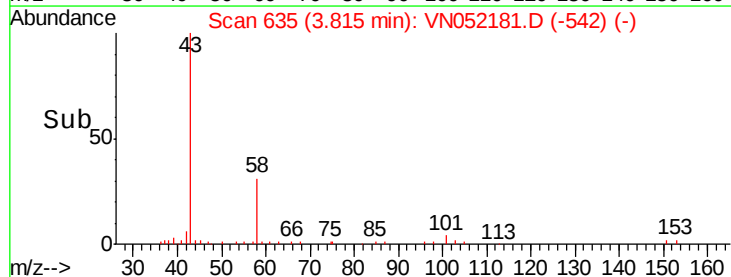
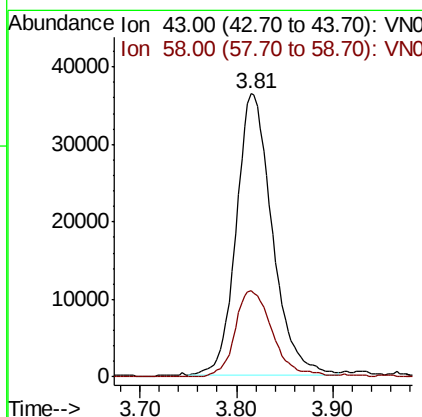
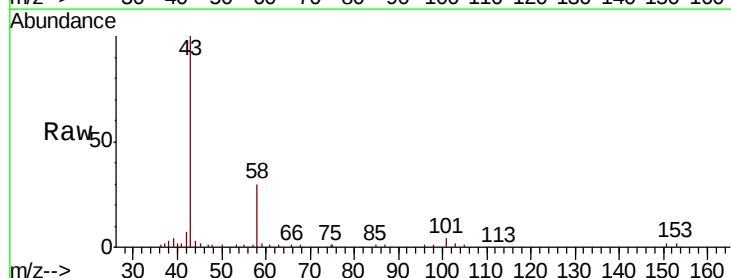
Manual Integrations
 APPROVED

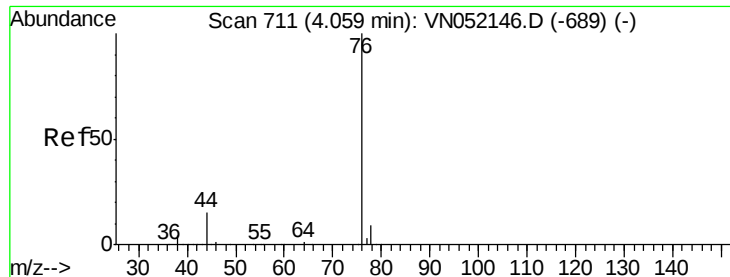
MMDadoda
 11/6/2018 5:58:44 PM



#16
 Acetone
 Concen: 96.978 ug/l
 RT: 3.81 min Scan# 635
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.6	24.2	36.2





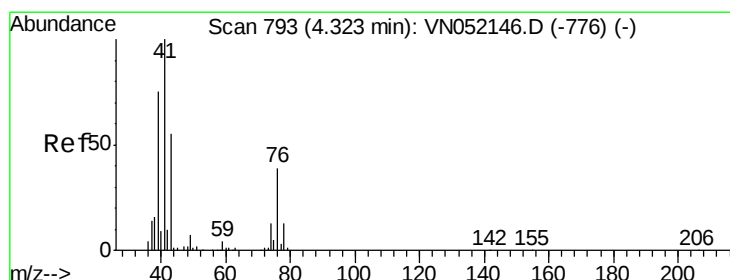
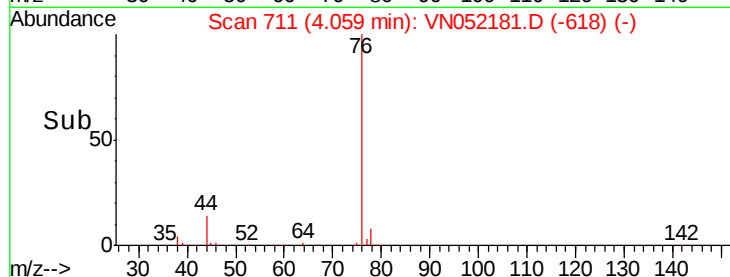
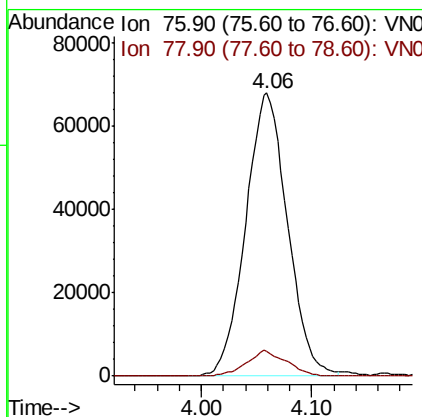
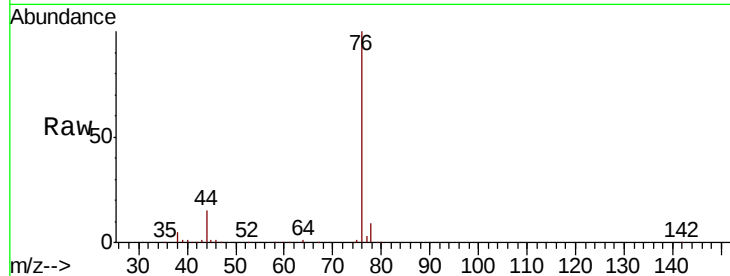
#17
Carbon Disulfide
Concen: 18.920 ug/l
RT: 4.06 min Scan# 711
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

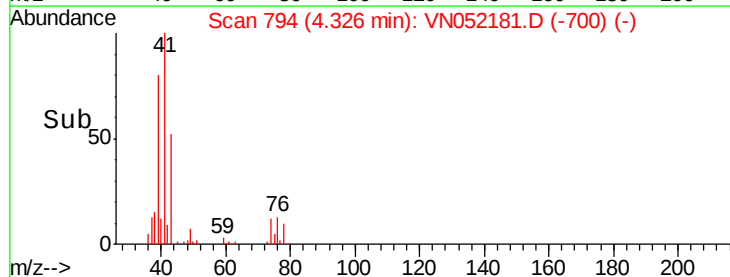
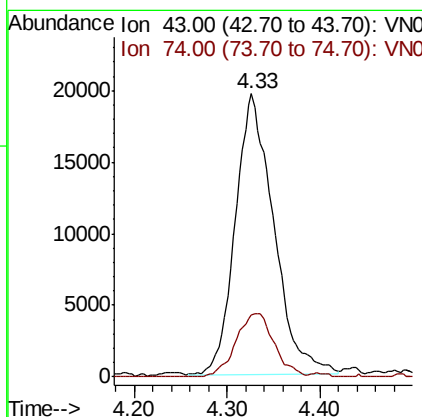
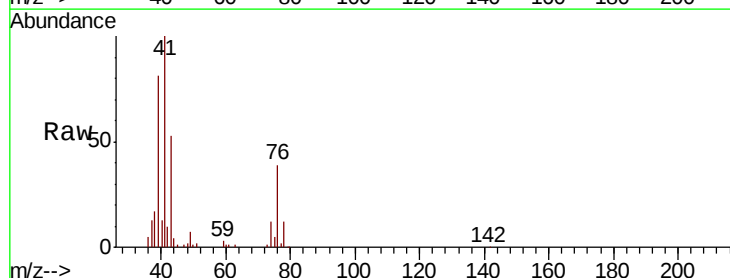
Manual Integrations
APPROVED

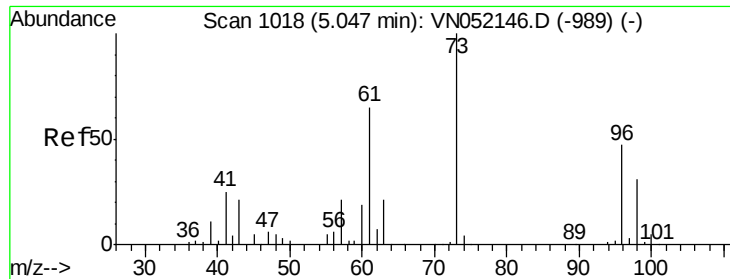
MMDadoda
11/6/2018 5:58:44 PM



#18
Methyl Acetate
Concen: 19.059 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.3	17.9	26.9





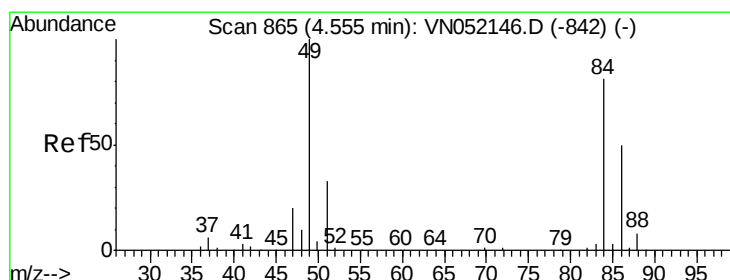
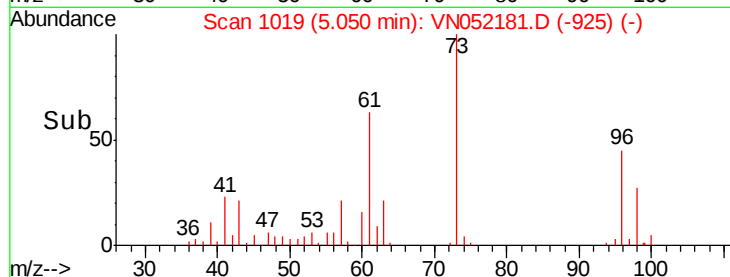
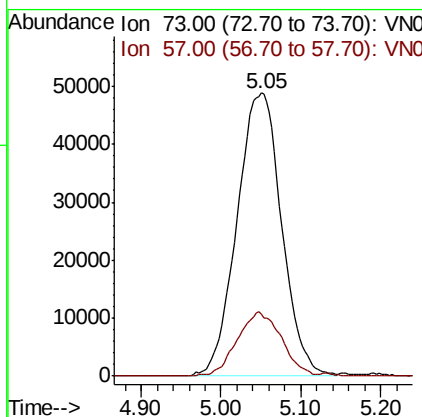
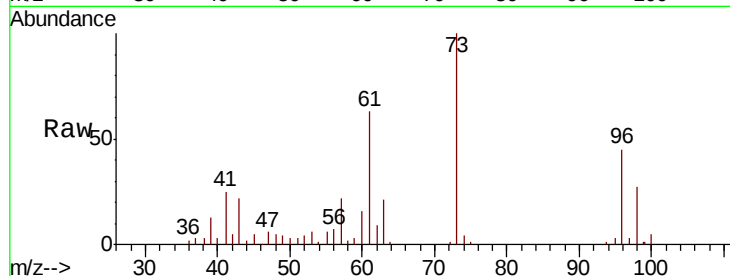
#19
Methvl tert-butvl Ether
Concen: 20.432 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion: 73 Resp: 185801
Ion Ratio Lower Upper
73 100
57 21.5 18.7 28.1

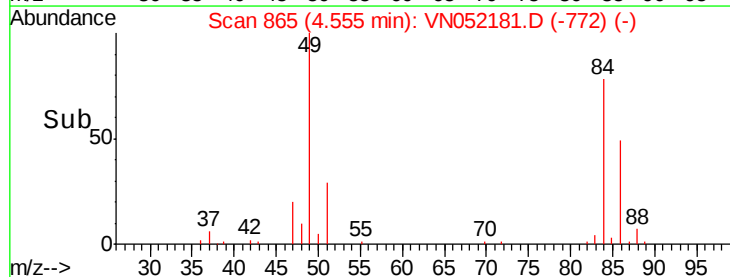
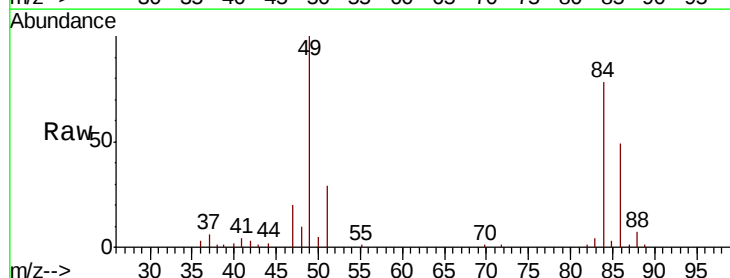
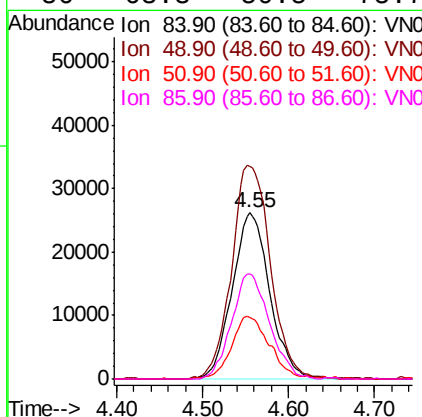
Manual Integrations
APPROVED

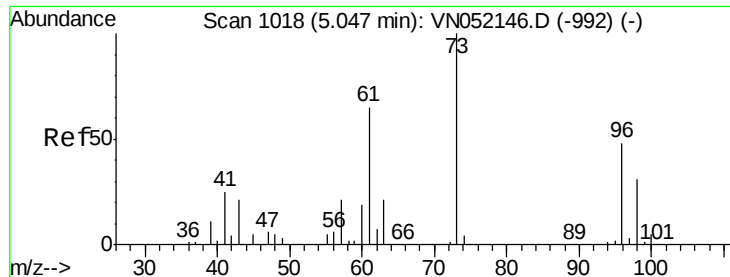
MMDadoda
11/6/2018 5:58:44 PM



#20
Methylene Chloride
Concen: 19.884 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion: 84 Resp: 79536
Ion Ratio Lower Upper
84 100
49 128.3 110.6 165.8
51 36.9 33.7 50.5
86 63.3 50.5 75.7





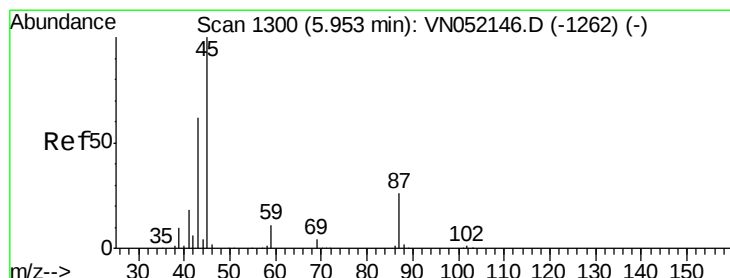
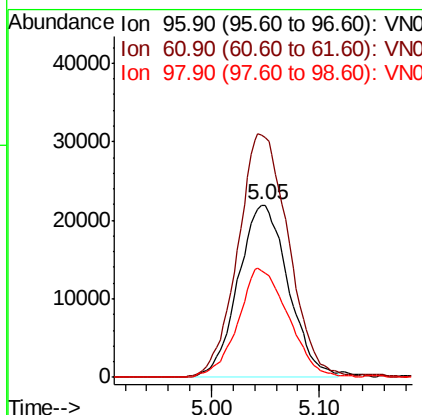
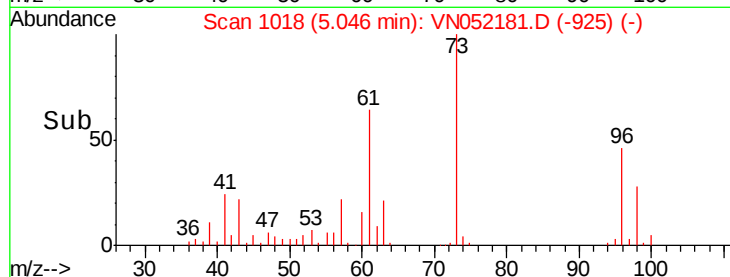
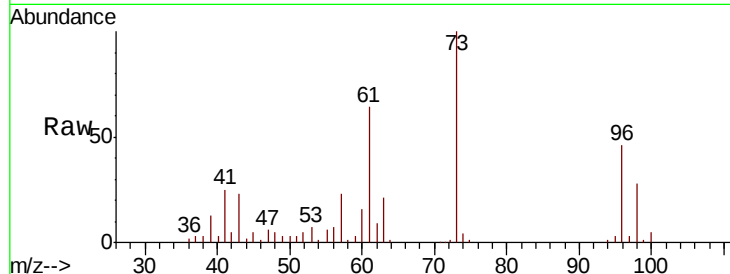
#21
trans-1,2-Dichloroethene
Concen: 20.645 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.9	118.6	178.0
98	62.1	49.7	74.5

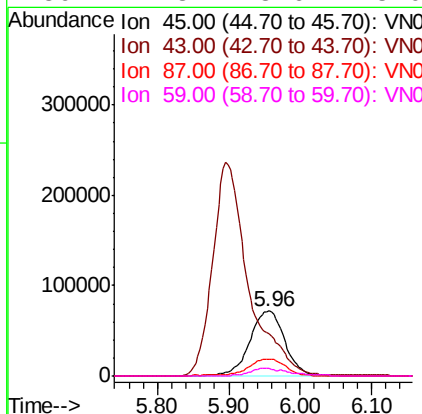
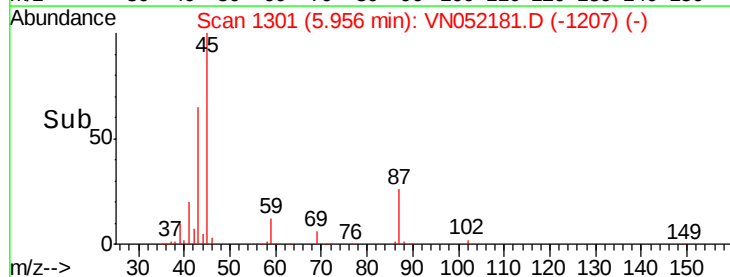
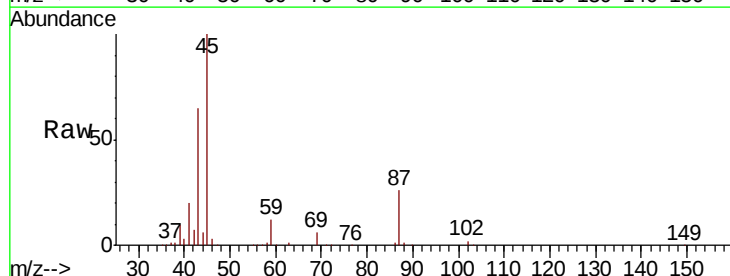
Manual Integrations
APPROVED

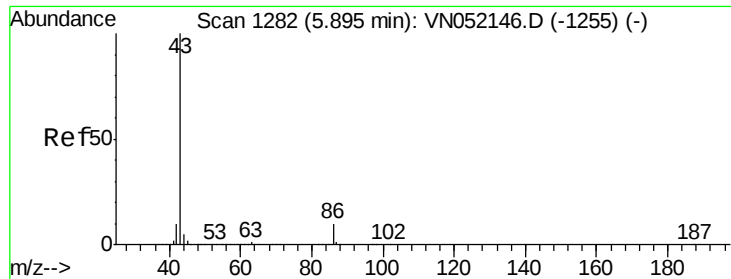
MMDadoda
11/6/2018 5:58:44 PM



#22
Diisopropyl ether
Concen: 20.212 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.6	50.5	75.7
87	26.4	21.5	32.3
59	11.3	8.6	13.0





#23

Vinyl Acetate

Concen: 103.574 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampled :

VN1106WBS02

Tot Ion: 43 Resp: 827462

Ion Ratio Lower Upper

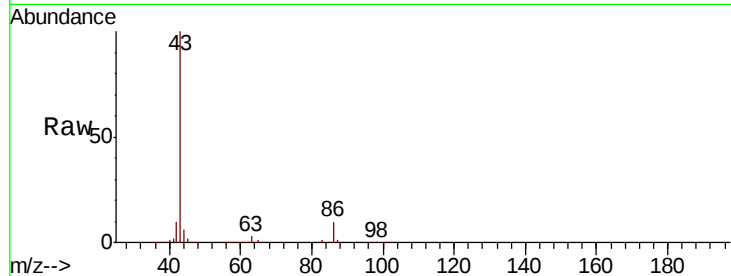
43 100

86 9.8 7.3 10.9

Manual Integrations
APPROVED

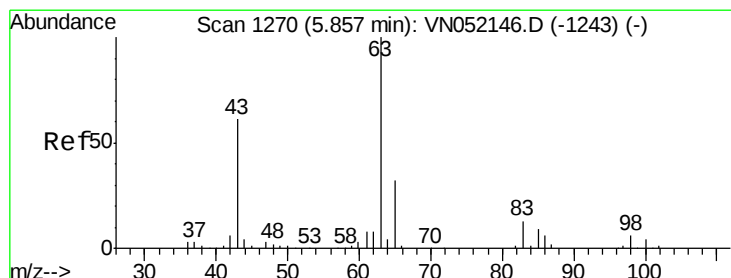
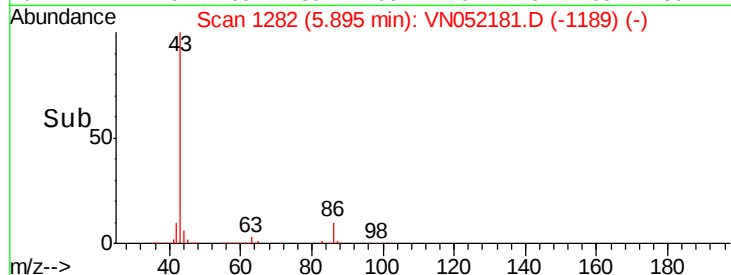
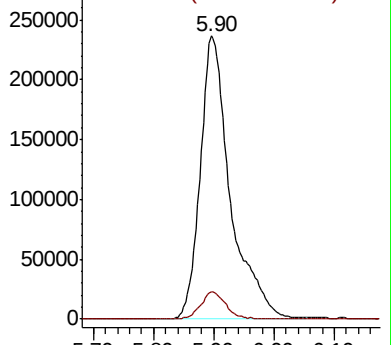
MMDadoda

11/6/2018 5:58:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 86.00 (85.70 to 86.70): VNO



#24

1,1-Dichloroethane

Concen: 21.106 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

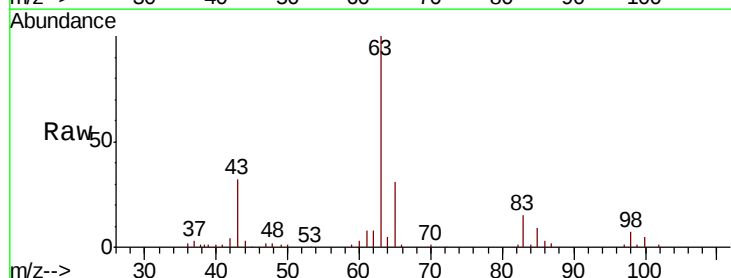
Tgt Ion: 63 Resp: 145021

Ion Ratio Lower Upper

63 100

98 6.9 2.8 8.4

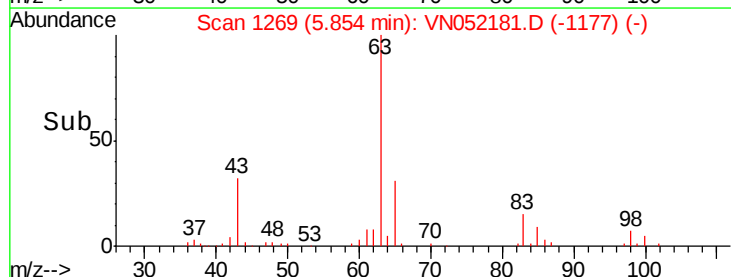
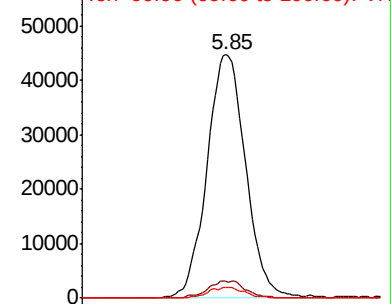
100 4.5 2.0 6.0

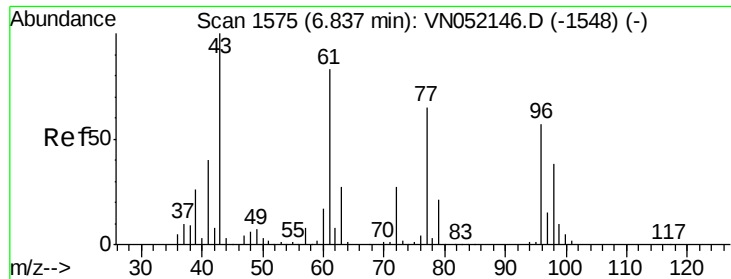


Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

Ion 99.90 (99.60 to 100.60): VNO





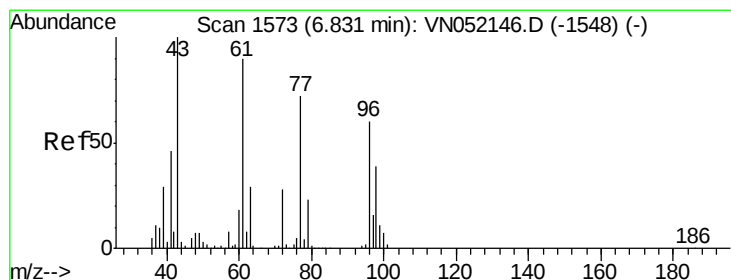
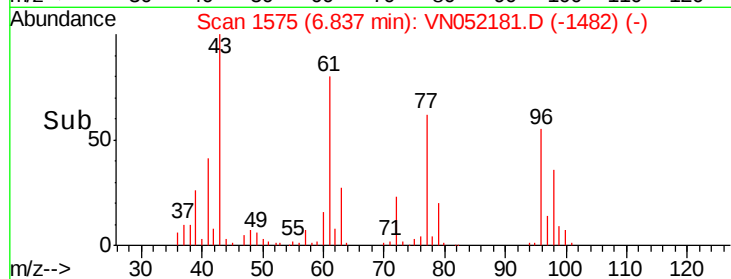
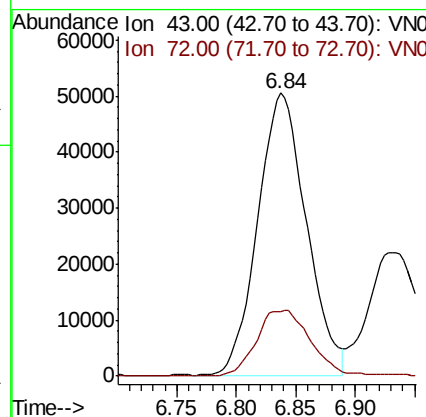
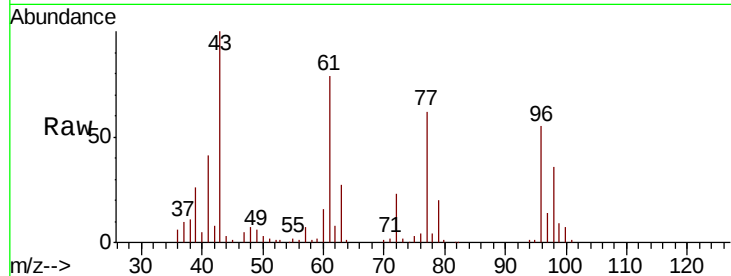
#25
2-Butanone
Concen: 95.354 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion: 43 Resp: 142343
Ion Ratio Lower Upper
43 100
72 23.0 20.2 30.2

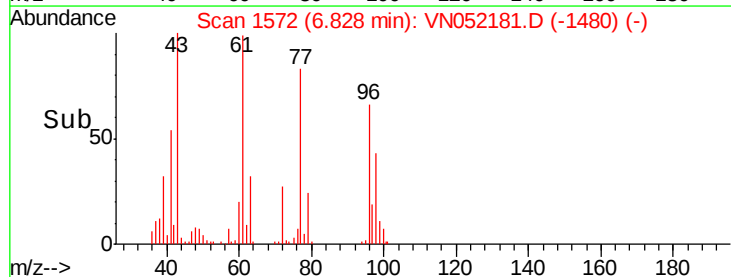
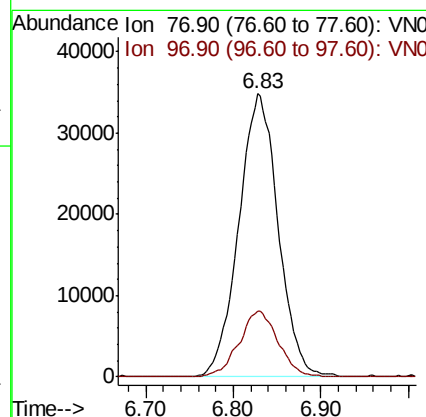
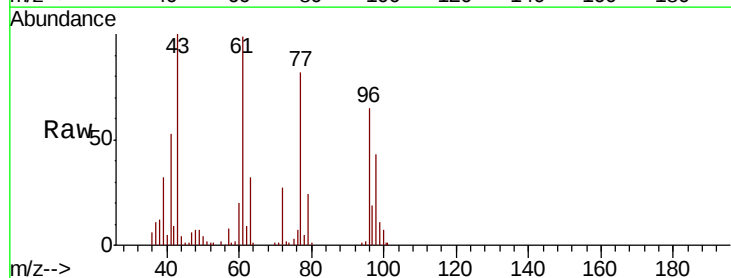
Manual Integrations
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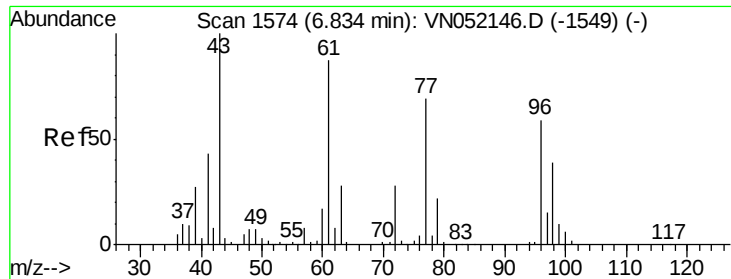
MMDadoda
11/6/2018 5:58:44 PM



#26
2,2-Dichloropropane
Concen: 20.252 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion: 77 Resp: 108837
Ion Ratio Lower Upper
77 100
97 23.1 10.5 31.5





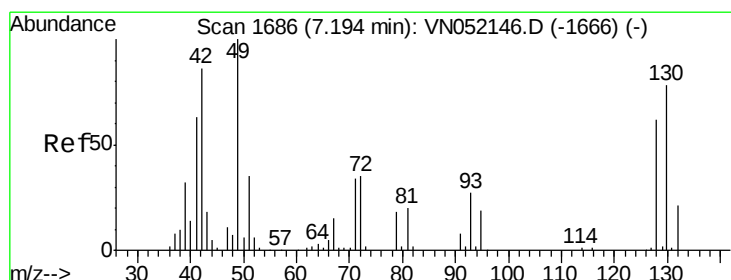
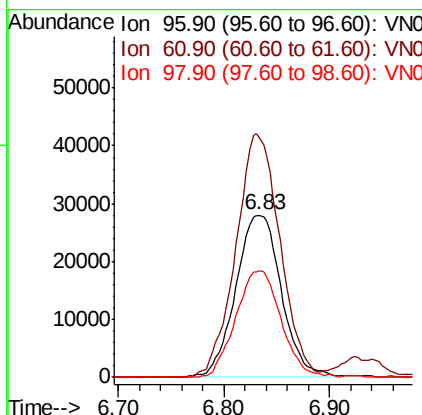
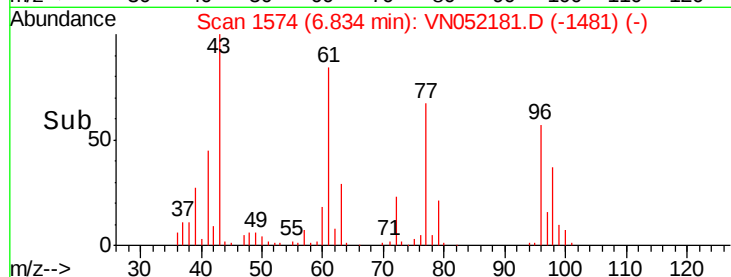
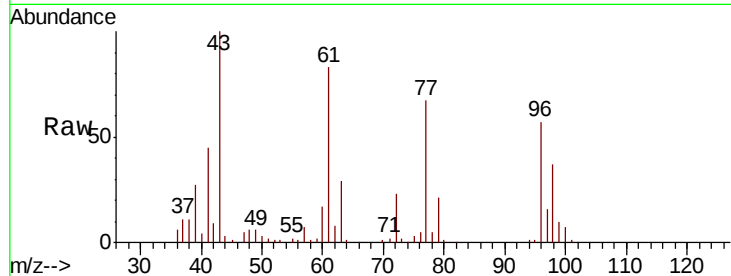
#27
 cis-1,2-Dichloroethene
 Concen: 20.247 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.1	0.0	312.8
98	64.9	0.0	127.0

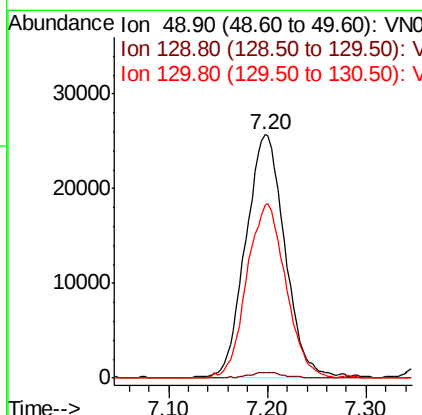
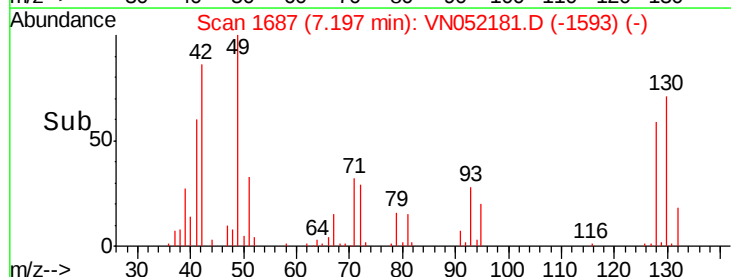
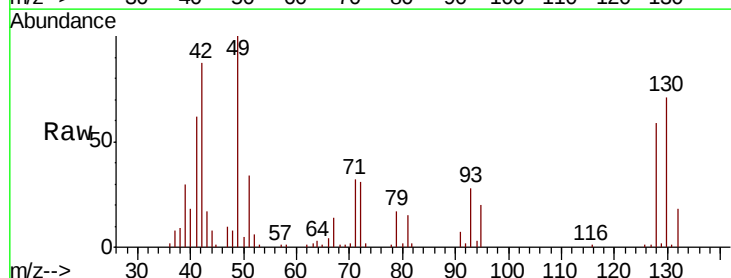
Manual Integrations
 APPROVED

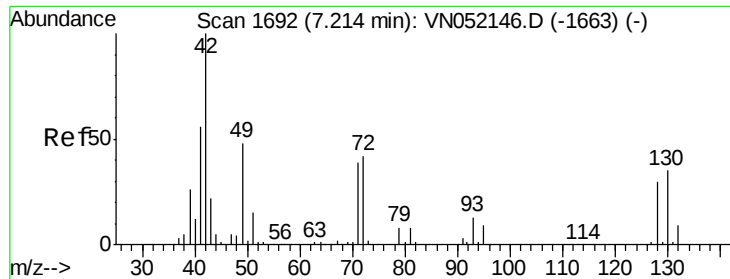
MMDadoda
 11/6/2018 5:58:44 PM



#28
 Bromochloromethane
 Concen: 21.760 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	2.4
130	71.0	50.8	76.2





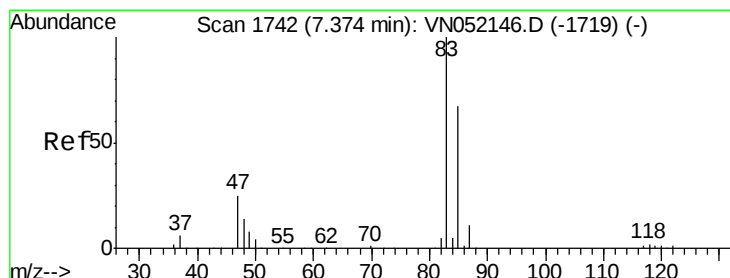
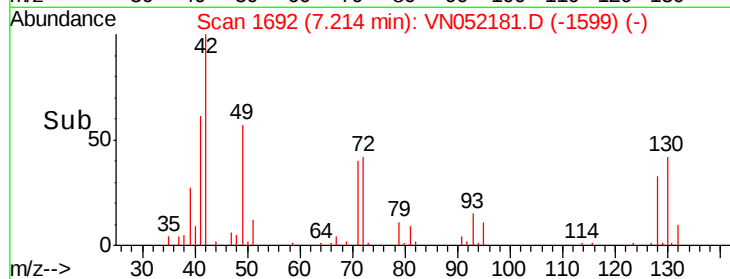
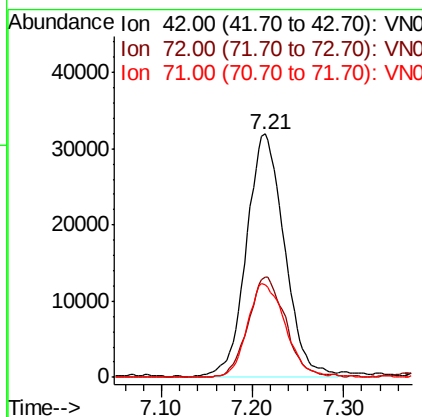
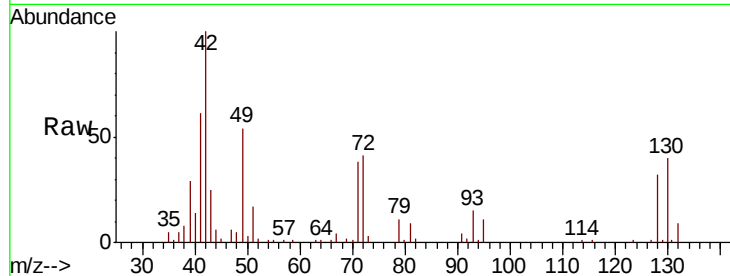
#29
Tetrahydrofuran
Concen: 100.734 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.2	32.5	48.7
71	38.6	30.6	46.0

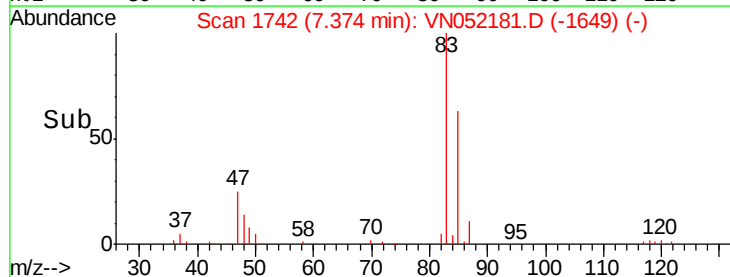
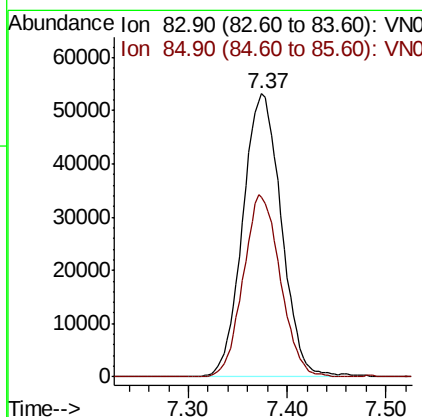
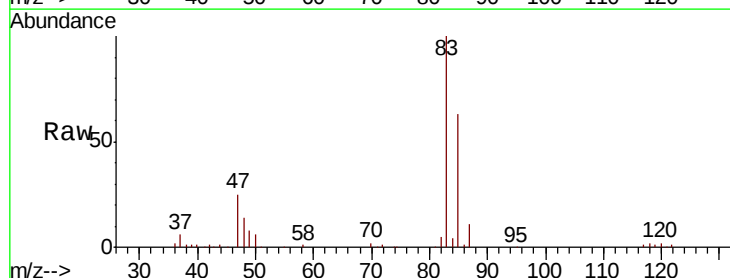
Manual Integrations
APPROVED

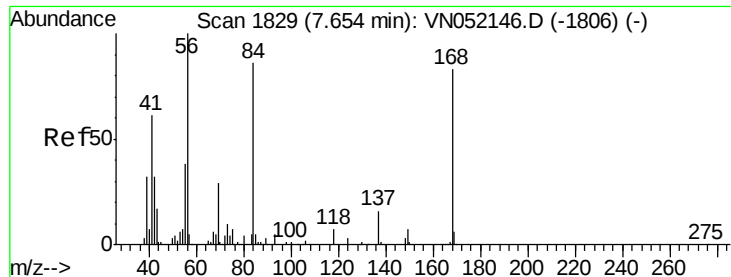
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#30
Chloroform
Concen: 21.006 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.4	49.6	74.4





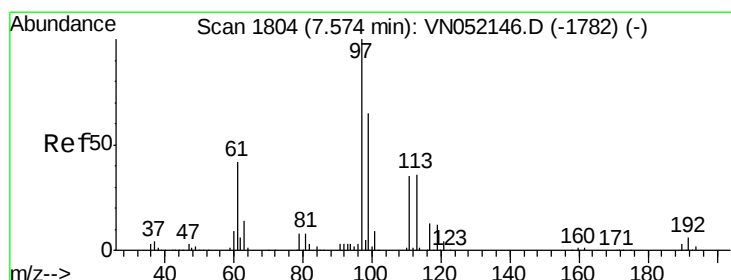
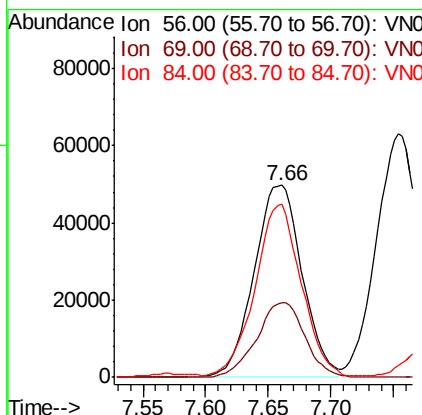
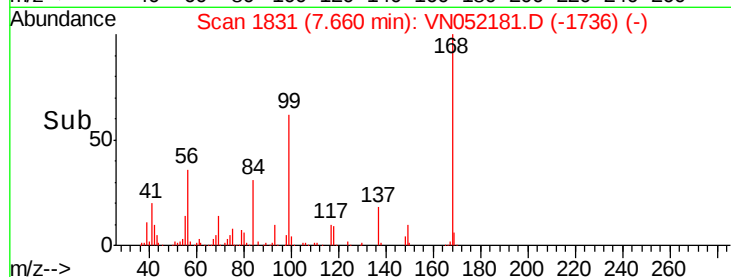
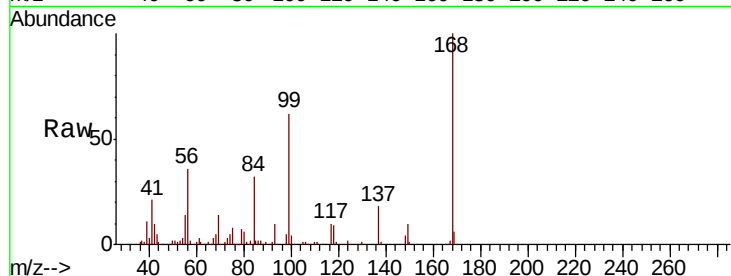
#31
Cyclohexane
Concen: 19.743 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.4	25.8	38.6
84	88.6	63.5	95.3

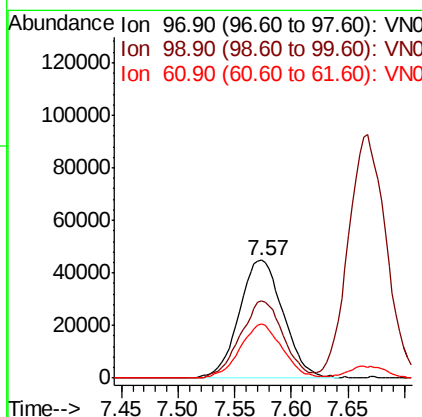
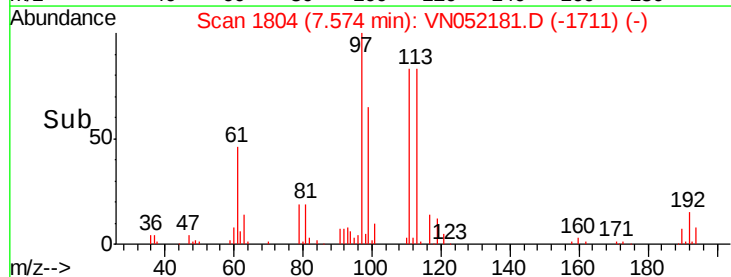
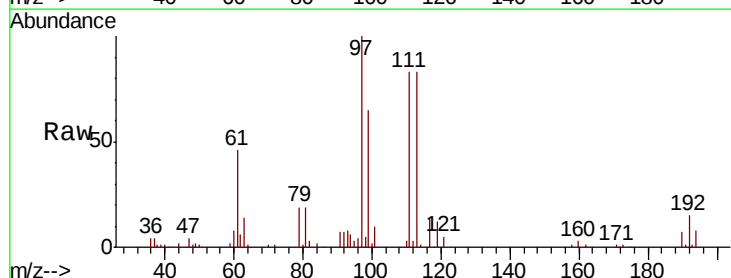
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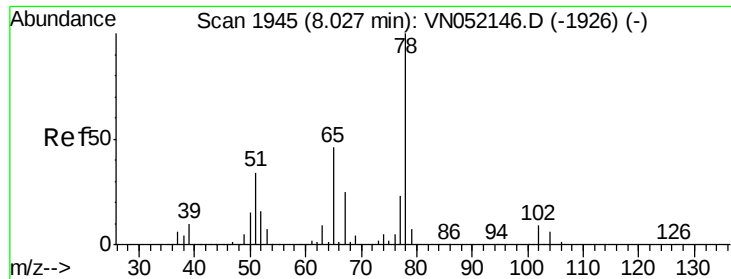
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#32
1,1,1-Trichloroethane
Concen: 20.050 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.4	77.2
61	43.7	40.3	60.5





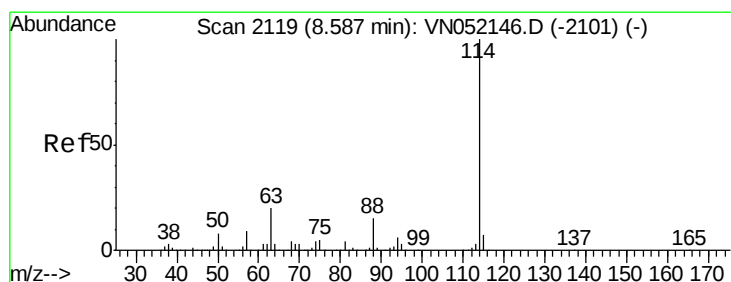
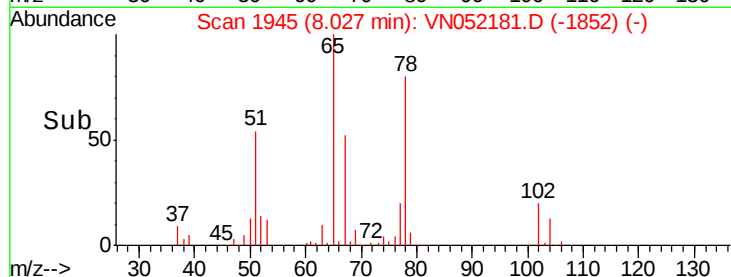
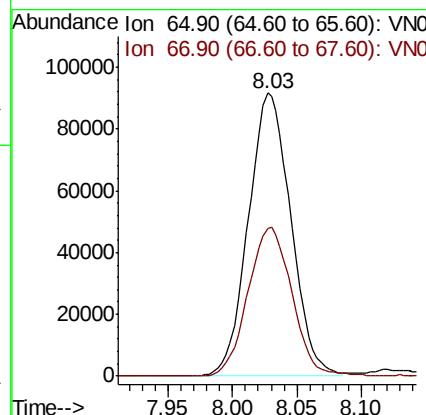
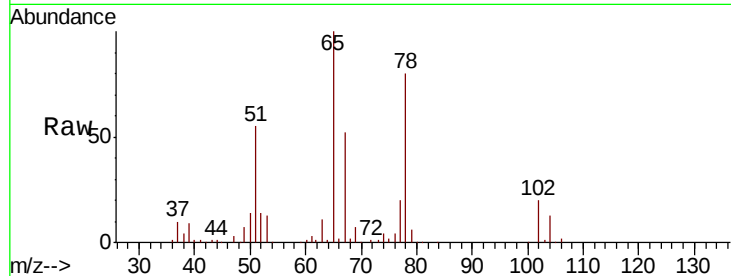
#33
 1,2-Dichloroethane-d4
 Concen: 20.050 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	21053		
67	54.4	0.0	105.2	

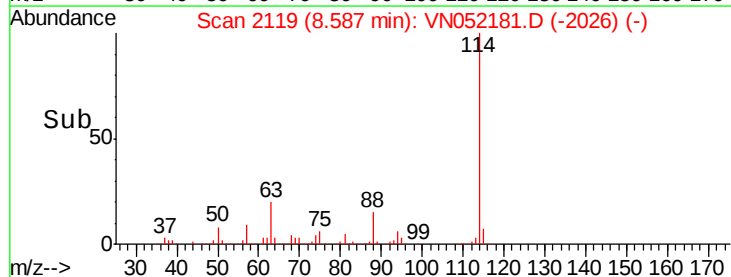
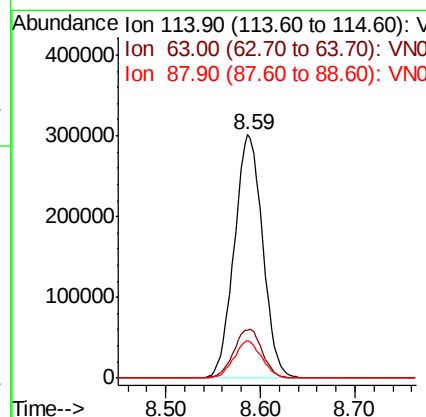
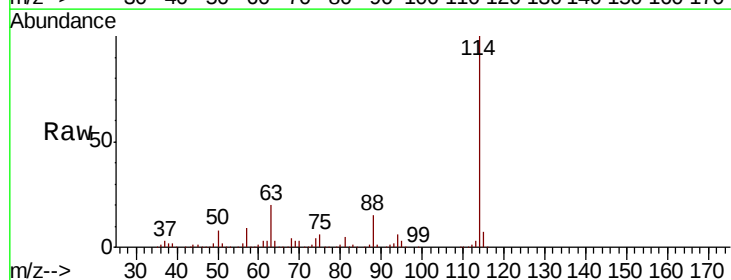
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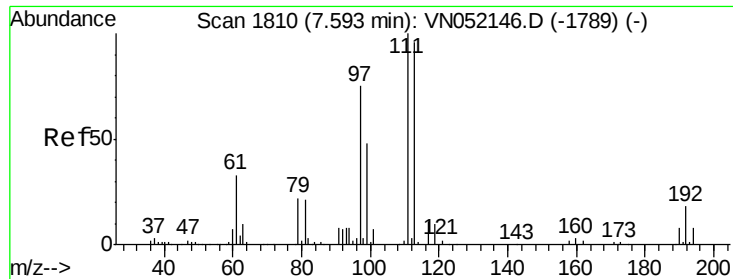
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	627370		
63	19.9	0.0	46.0	
88	15.5	0.0	35.4	





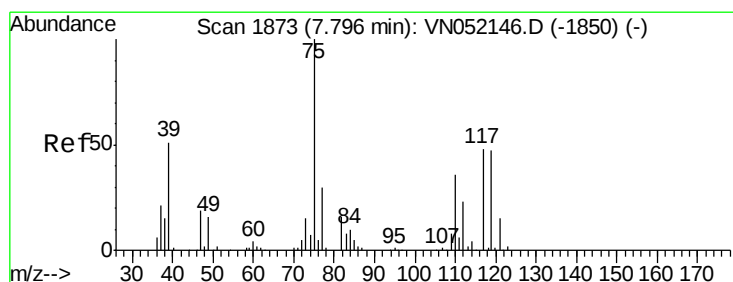
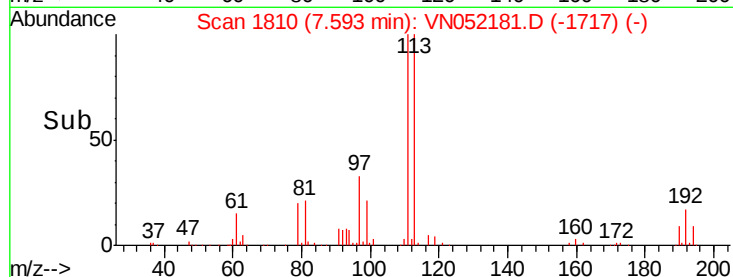
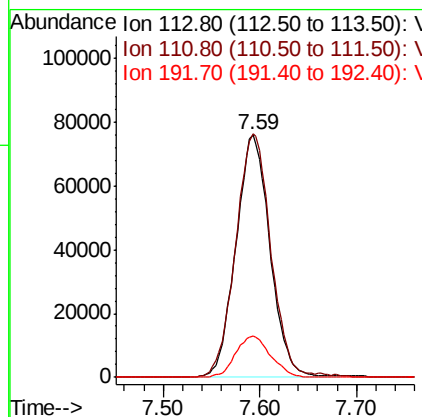
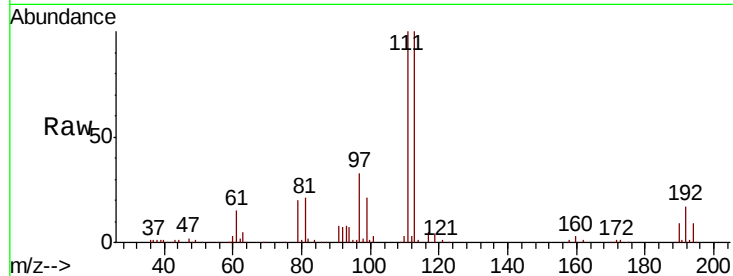
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	186593		
111	102.8	83.1	124.7	
192	17.5	12.7	19.1	

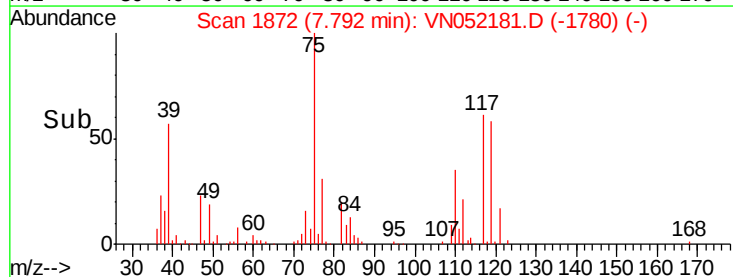
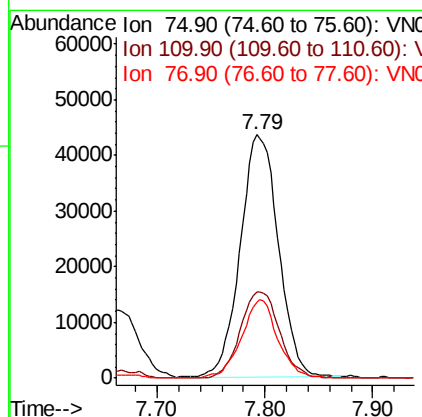
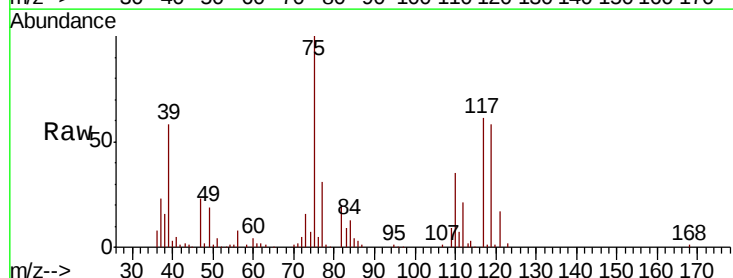
Manual Integrations
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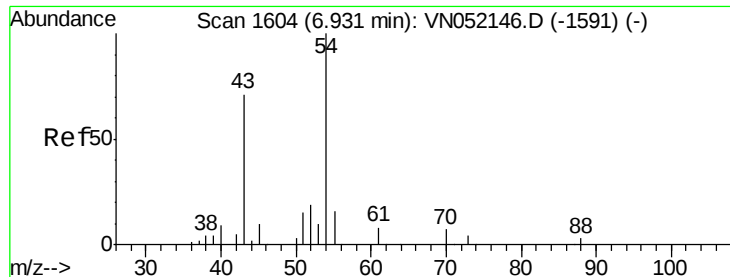
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#36
1,1-Dichloropropene
Concen: 19.346 ug/l
RT: 7.79 min Scan# 1872
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	107367		
110	36.4	16.0	48.0	
77	30.6	24.5	36.7	





#37

Ethyl Acetate

Concen: 18.629 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

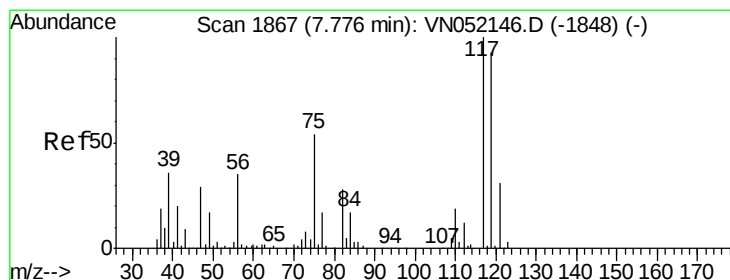
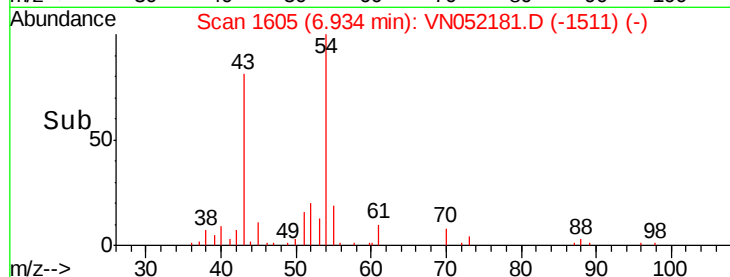
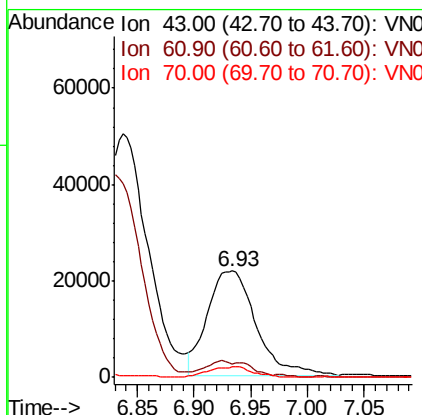
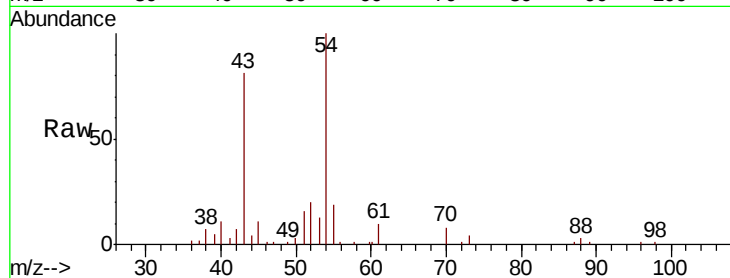
ClientSampleId :

VN1106WBS02

Tot Ion:	43	Resp:	65102
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.9	16.3#
70	9.1	8.6	12.8

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 18.892 ug/l

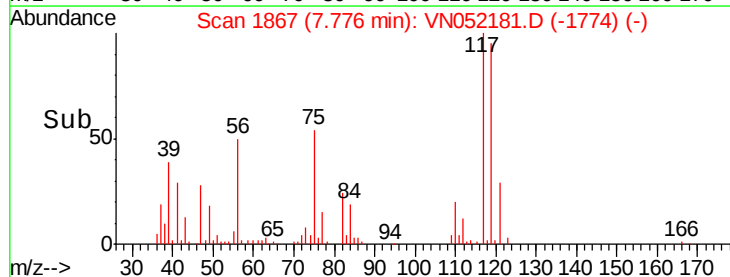
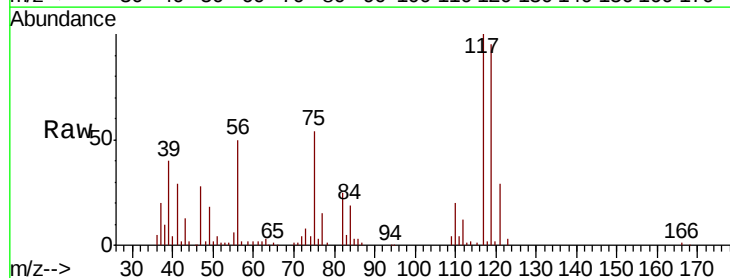
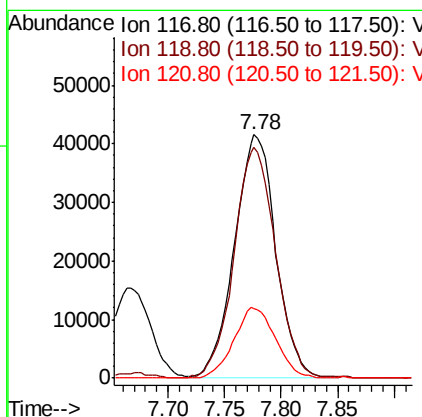
RT: 7.78 min Scan# 1867

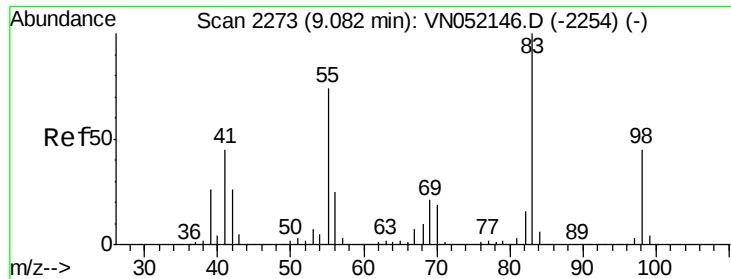
Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion:	117	Resp:	104752
Ion	Ratio	Lower	Upper
117	100		
119	94.6	74.8	112.2
121	28.8	25.1	37.7





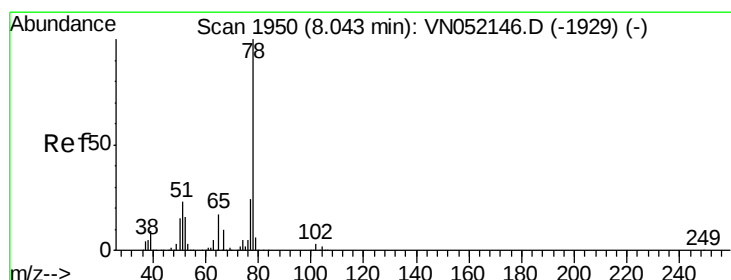
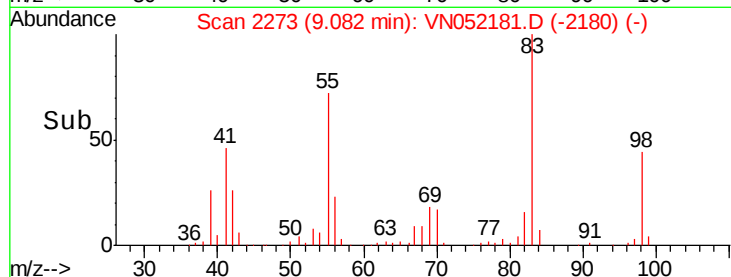
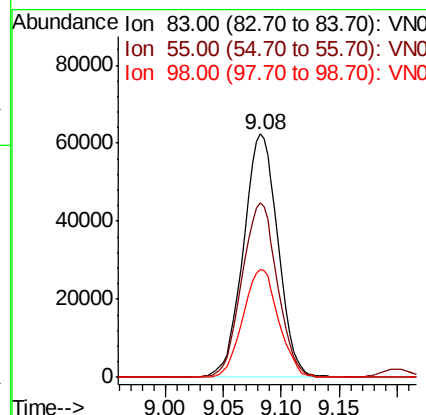
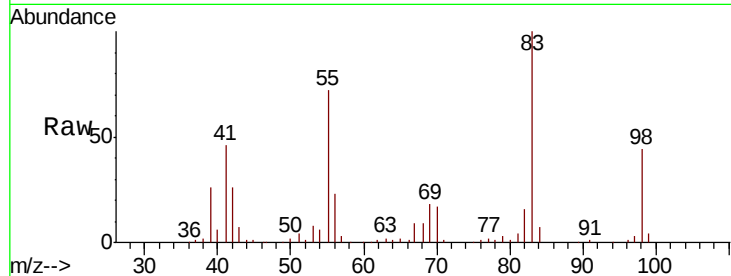
#39
Methvlcvclohexane
Concen: 19.721 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	71.7	62.0	93.0
98	44.2	34.7	52.1

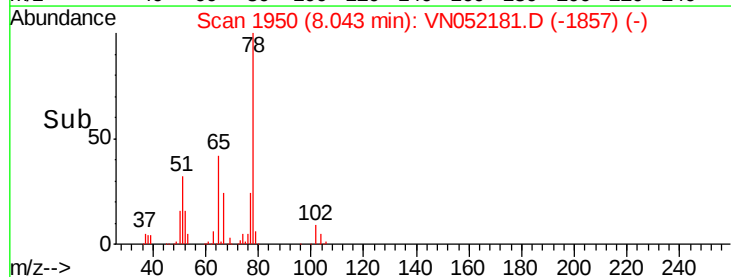
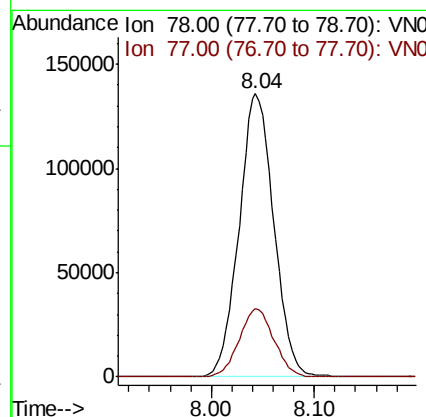
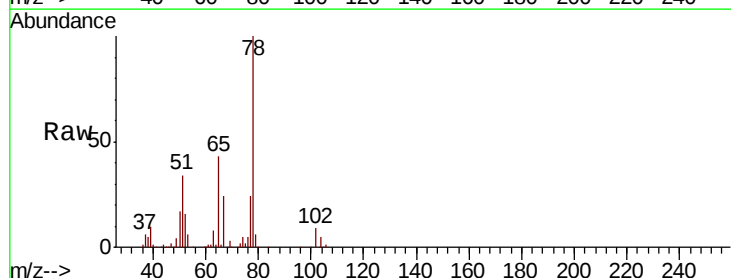
Manual Integrations
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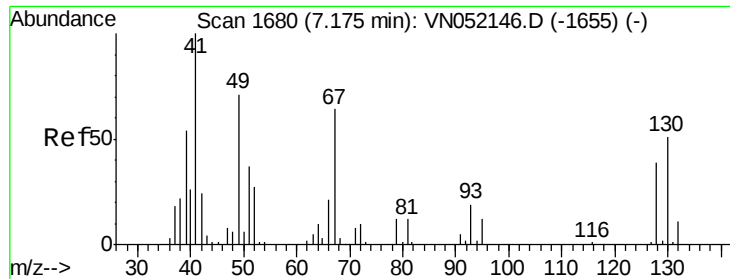
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#40
Benzene
Concen: 19.495 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.8	29.6





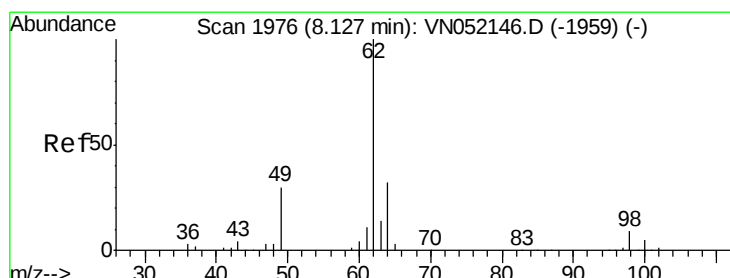
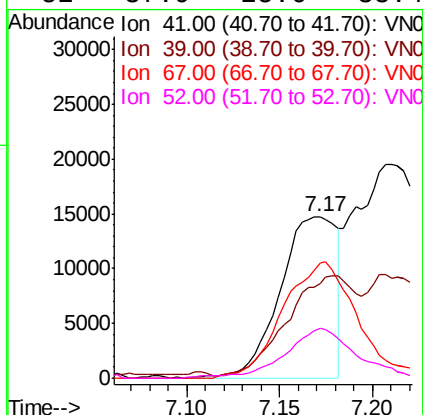
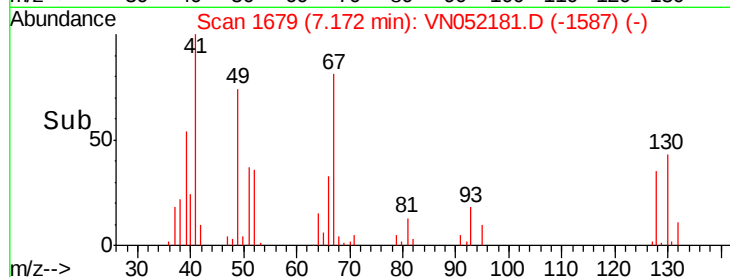
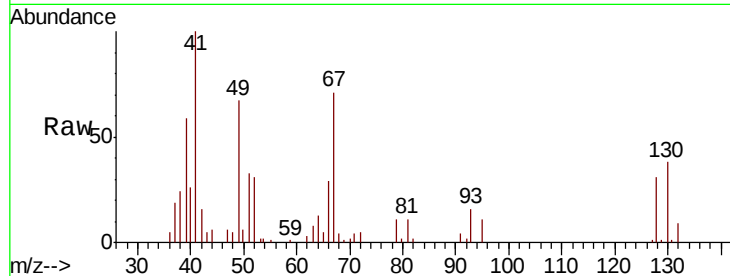
#41
Methacrylonitrile
Concen: 17.446 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion:	41	Resp:	31339
Ion	Ratio	Lower	Upper
41	100		
39	75.5	33.2	49.8#
67	95.2	63.5	95.3
52	37.9	25.6	38.4

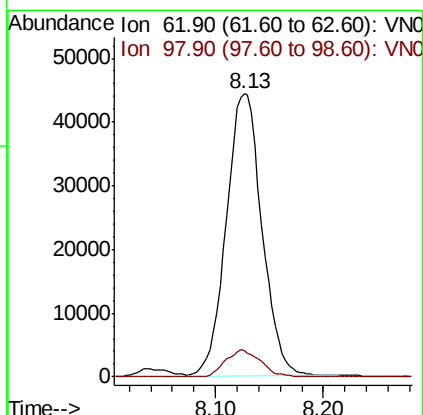
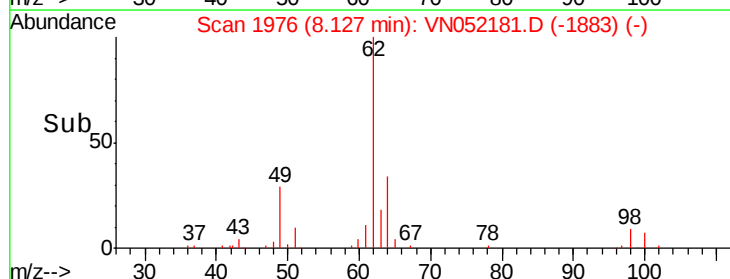
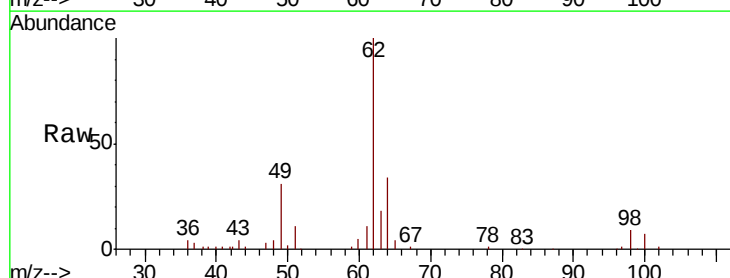
Manual Integrations
APPROVED

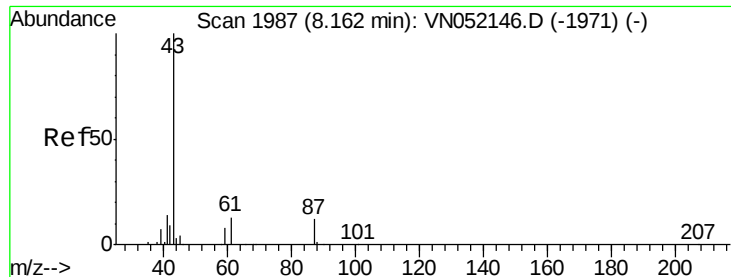
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#42
1,2-Dichloroethane
Concen: 19.509 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion:	62	Resp:	102320
Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	15.2





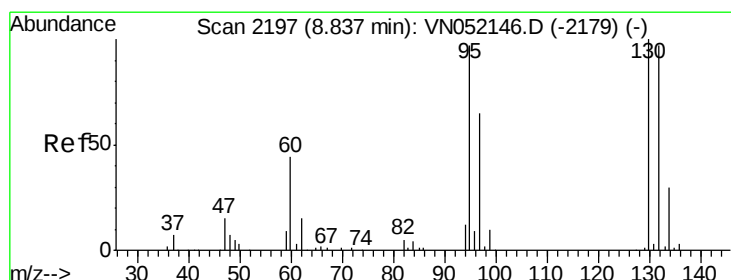
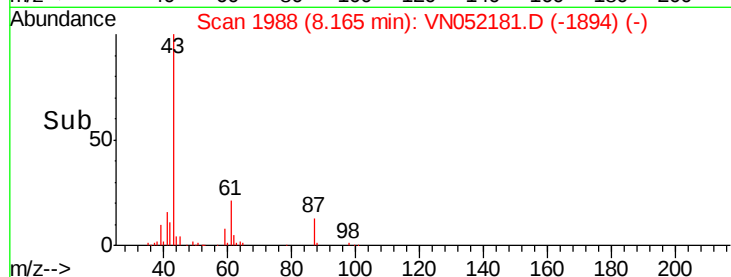
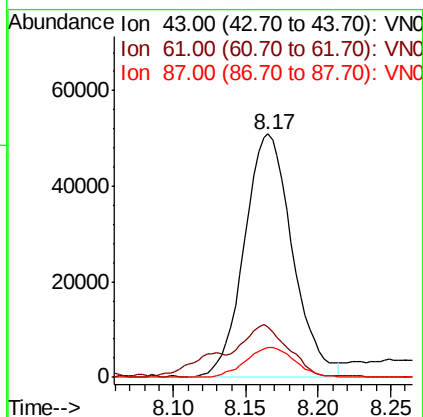
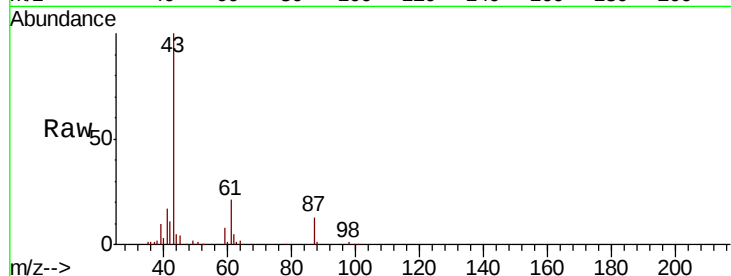
#43
Isopropyl Acetate
Concen: 18.577 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.4	23.0
87	12.5	9.8	14.8

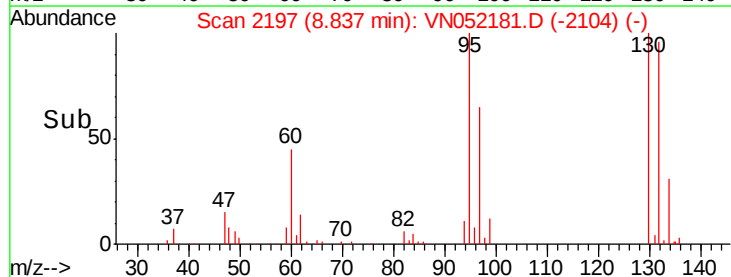
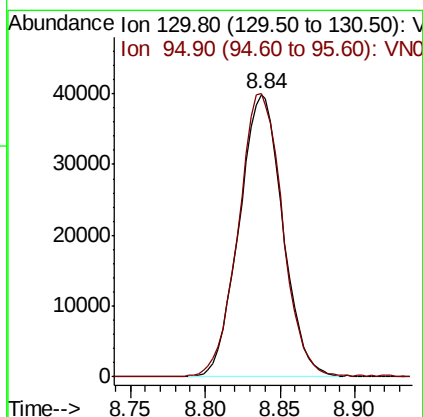
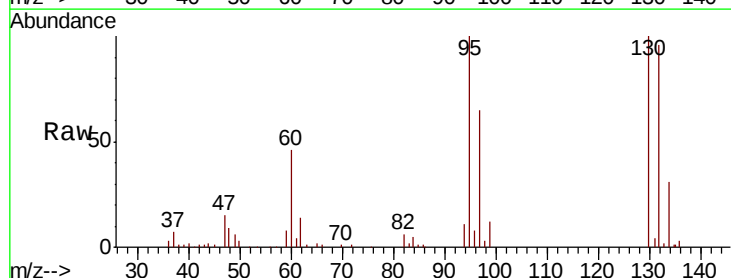
Manual Integrations
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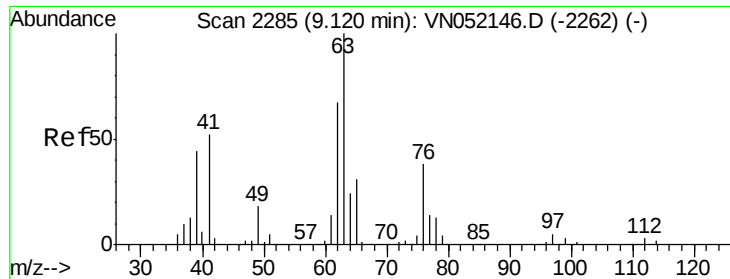
MMDadoda
11/6/2018 5:58:44 PM



#44
Trichloroethene
Concen: 18.686 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	228.4





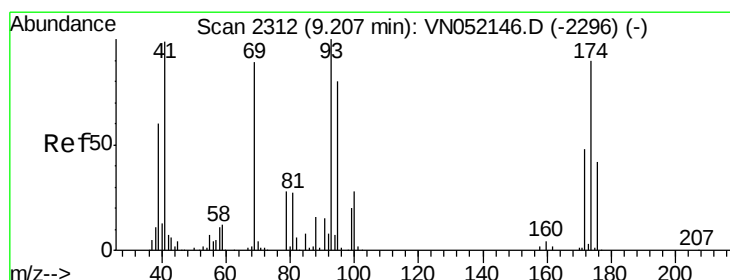
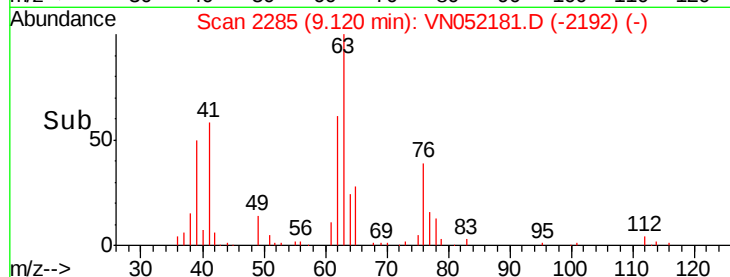
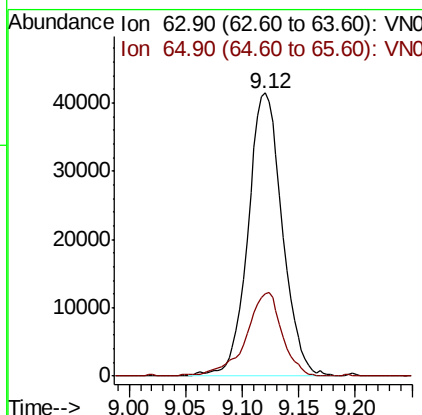
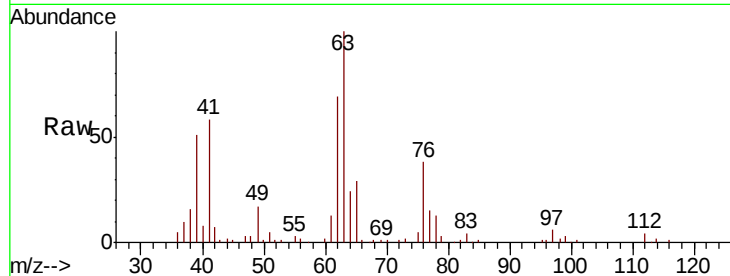
#45
 1,2-Dichloropropane
 Concen: 20.234 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion: 63 Resp: 87428
 Ion Ratio Lower Upper
 63 100
 65 28.9 24.5 36.7

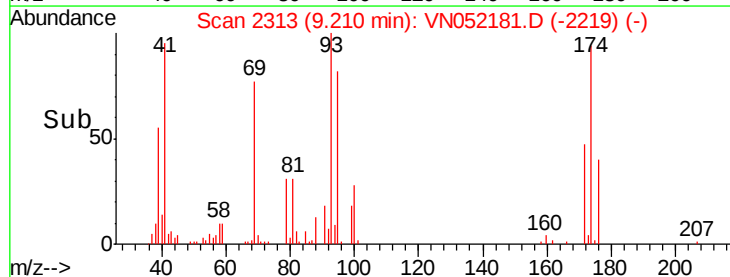
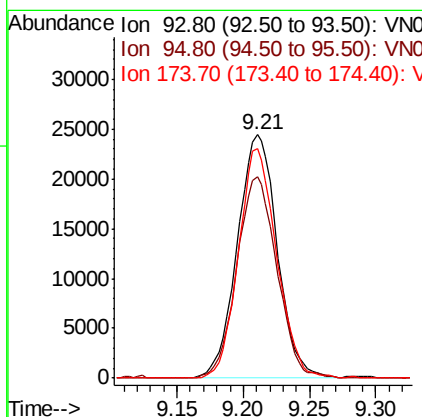
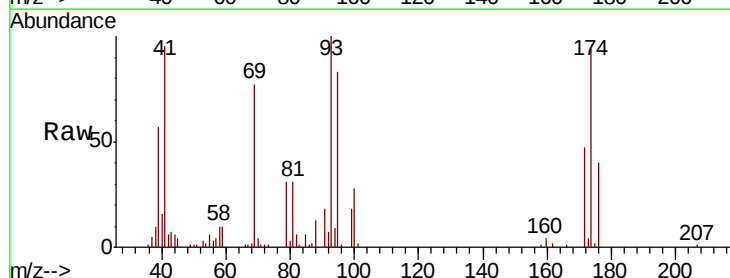
Manual Integrations
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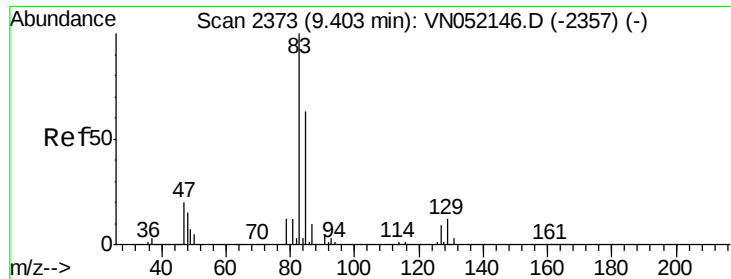
MMDadoda
 11/6/2018 5:58:44 PM



#46
 Dibromomethane
 Concen: 18.629 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion: 93 Resp: 51189
 Ion Ratio Lower Upper
 93 100
 95 82.8 67.2 100.8
 174 90.2 59.7 89.5#





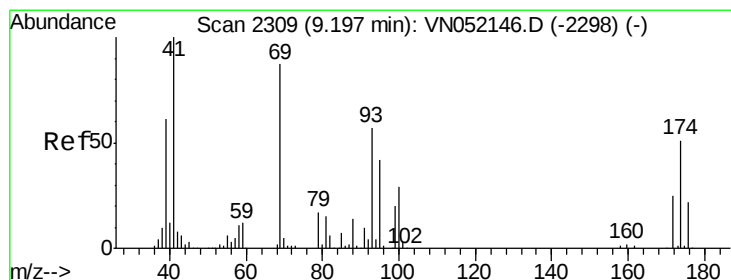
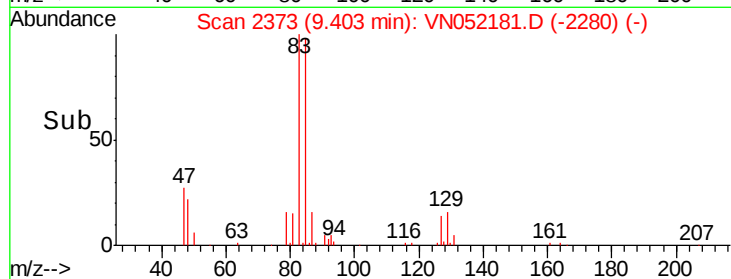
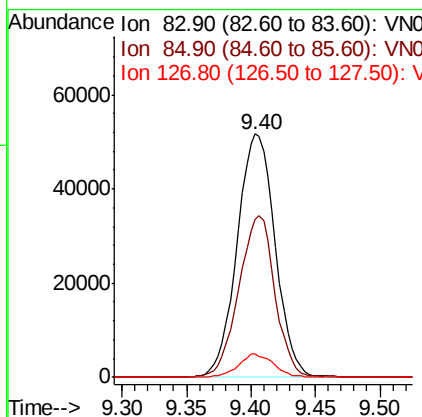
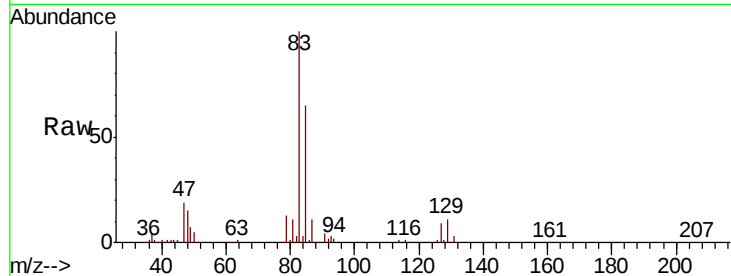
#47
Bromodichloromethane
Concen: 19.785 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	83	Resp	106029
Ion Ratio	100	Lower	Upper
83	100		
85	64.8	49.4	74.2
127	9.5	5.8	8.8#

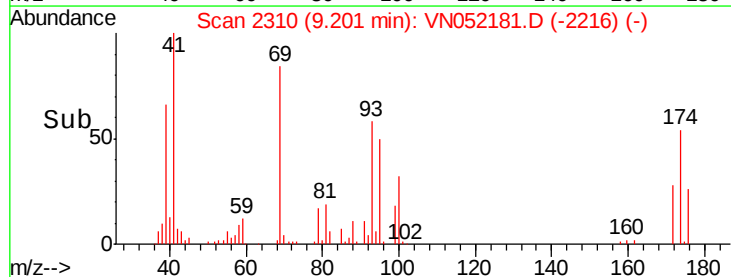
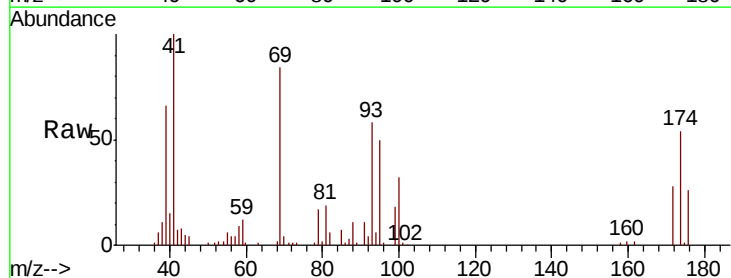
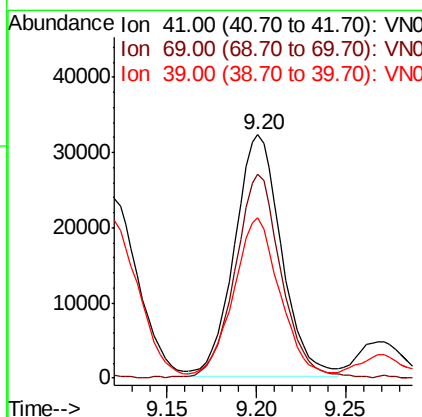
Manual Integrations
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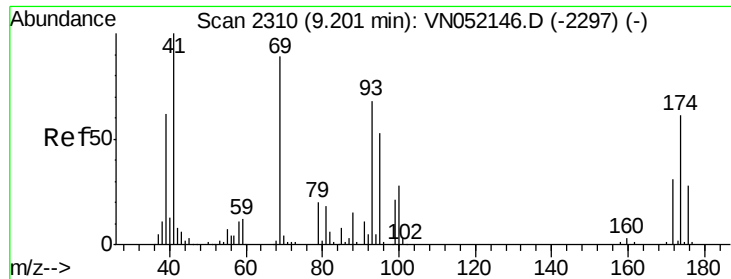
MMDadoda
11/6/2018 5:58:44 PM



#48
Methyl methacrylate
Concen: 19.479 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	41	Resp	59369
Ion Ratio	100	Lower	Upper
41	100		
69	82.7	67.1	100.7
39	64.1	50.5	75.7





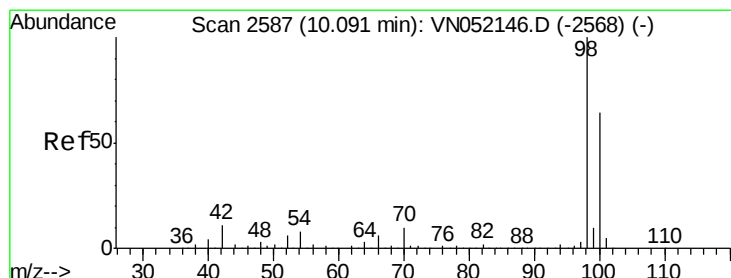
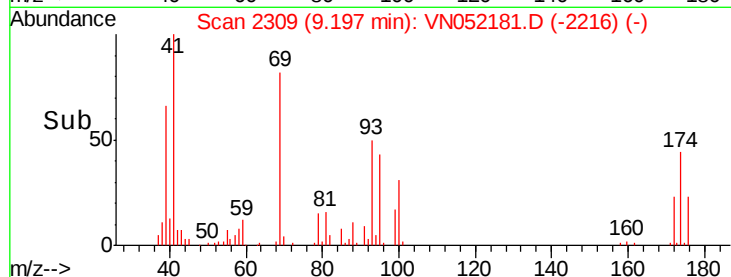
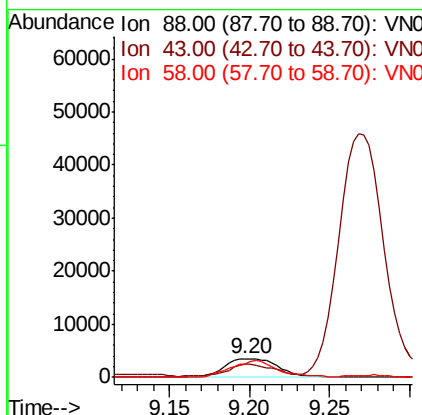
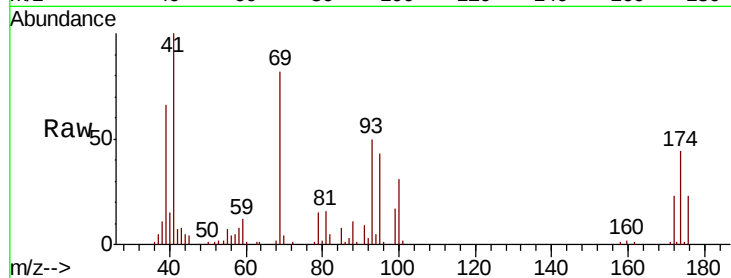
#49
1,4-Dioxane
Concen: 305.480 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	47.9	34.1	51.1
58	76.8	62.8	94.2

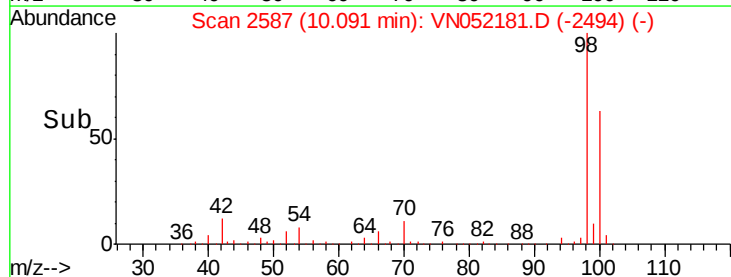
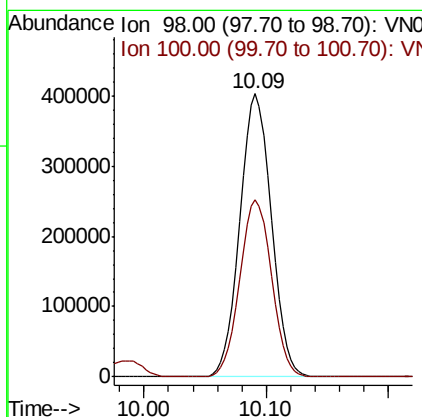
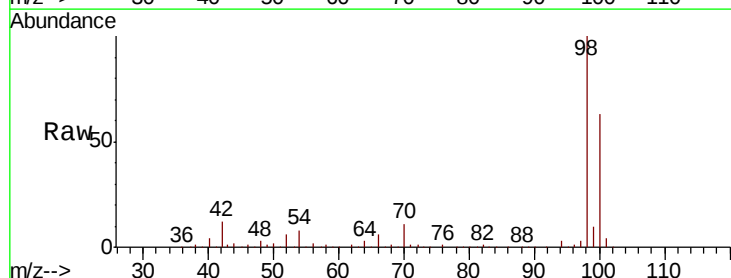
Manual Integrations
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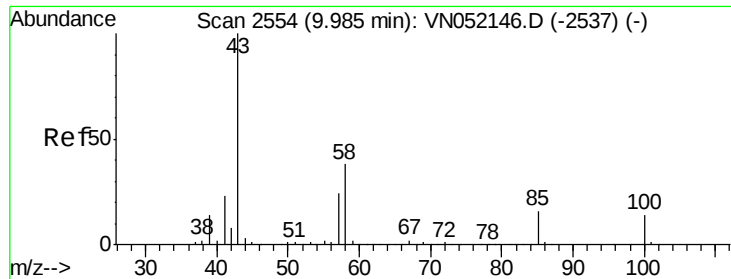
MMDadoda
11/6/2018 5:58:44 PM



#50
Toluene-d8
Concen: 305.480 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.0	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 95.914 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 43 Resp: 320876

Ion Ratio Lower Upper

43 100

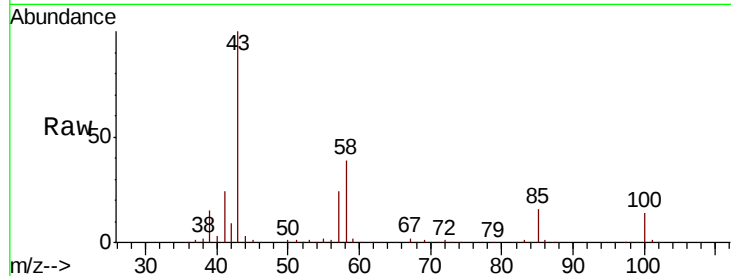
58 36.9 29.7 44.5

Manual Integrations

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MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN052146.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052146.D (-2537) (-)

200000

150000

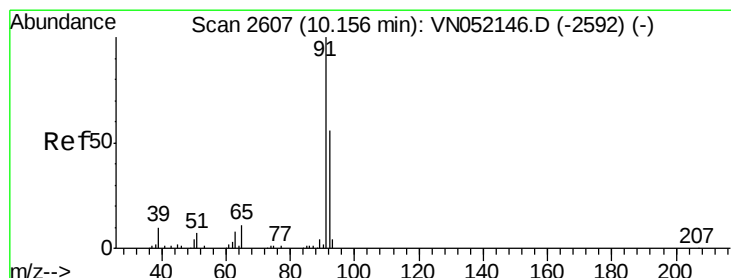
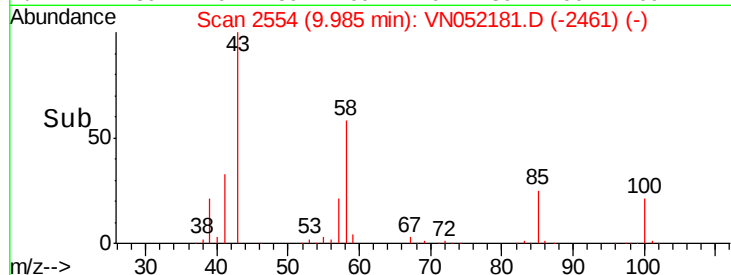
100000

50000

0

9.90 9.95 10.00 10.05

Time-->



#52

Toluene

Concen: 19.964 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN052181.D

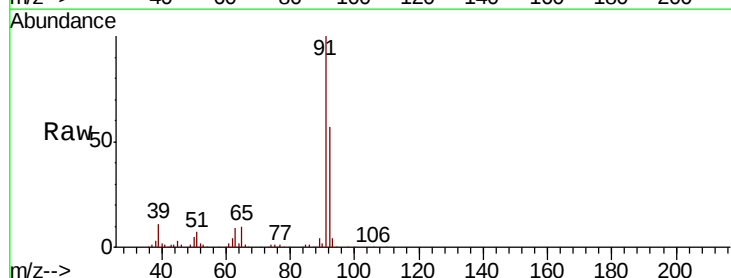
Acq: 6 Nov 2018 10:21

Tgt Ion: 92 Resp: 196408

Ion Ratio Lower Upper

92 100

91 177.4 143.9 215.9



Abundance Ion 92.00 (91.70 to 92.70): VN052146.D (-2592) (-)

Ion 91.00 (90.70 to 91.70): VN052146.D (-2592) (-)

200000

150000

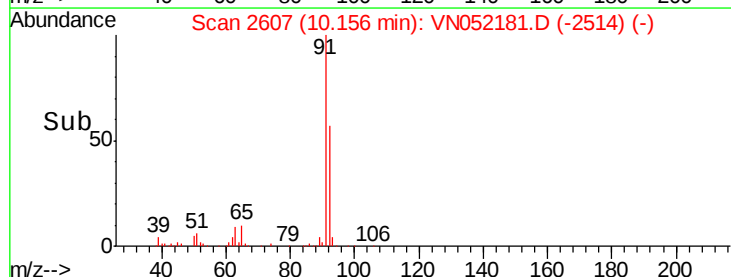
100000

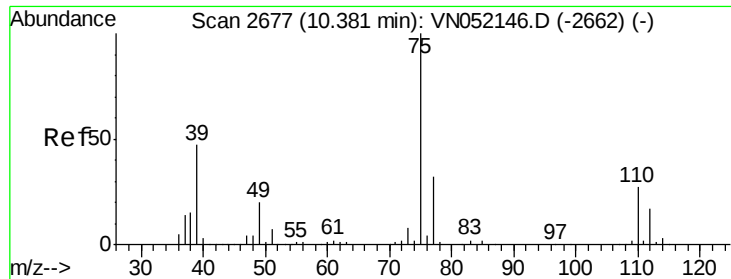
50000

0

10.10 10.15 10.20

Time-->





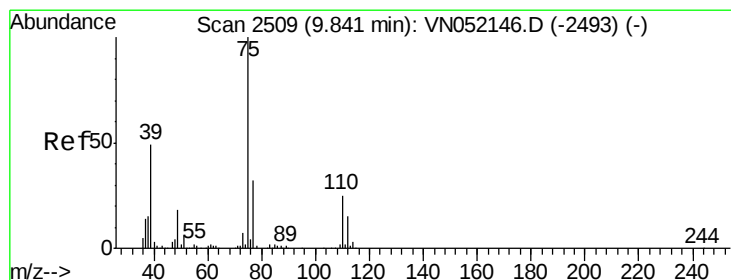
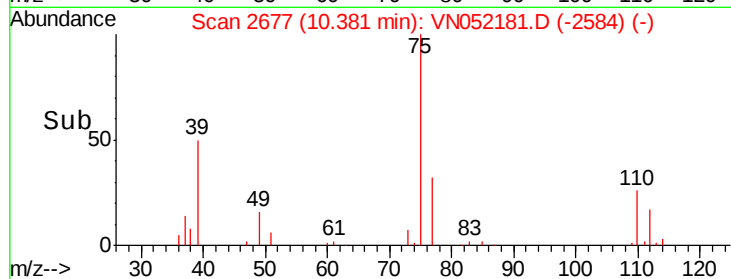
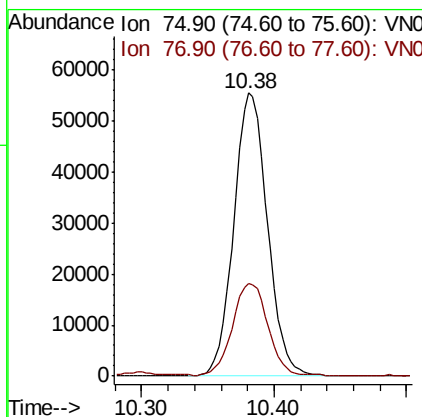
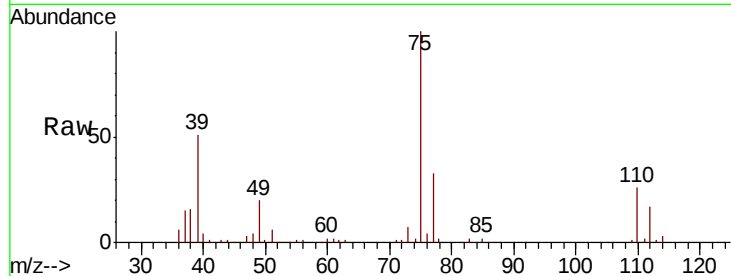
#53
t-1,3-Dichloropropene
Concen: 18.613 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion: 75 Resp: 97853
Ion Ratio Lower Upper
75 100
77 32.2 25.6 38.4

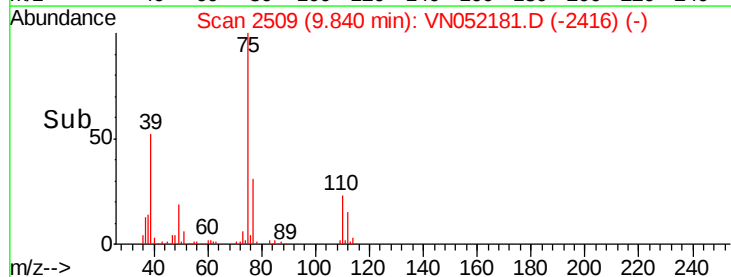
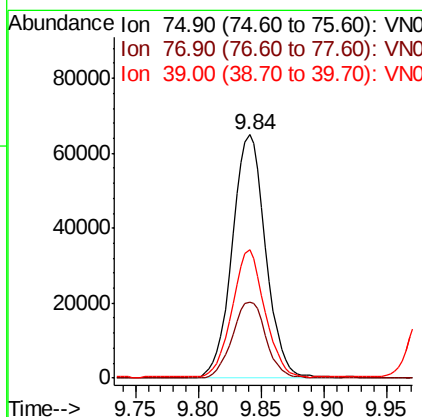
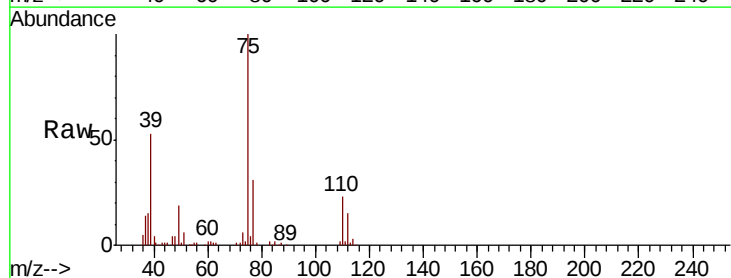
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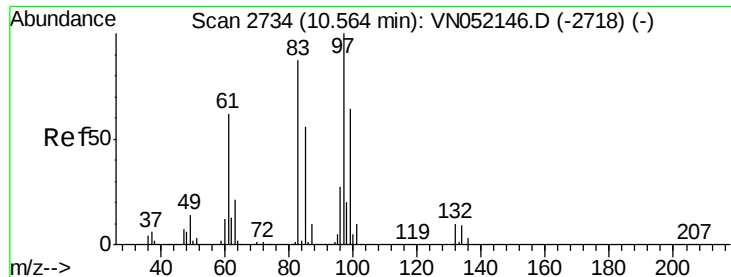
MMDadoda
11/6/2018 5:58:44 PM



#54
cis-1,3-Dichloropropene
Concen: 19.570 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion: 75 Resp: 120393
Ion Ratio Lower Upper
75 100
77 31.3 25.0 37.4
39 52.1 42.3 63.5





#55

1,1,2-Trichloroethane

Concen: 19.947 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

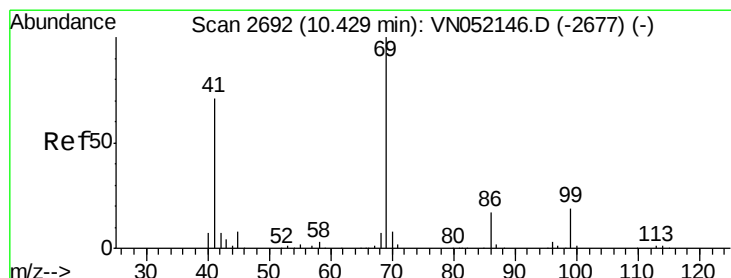
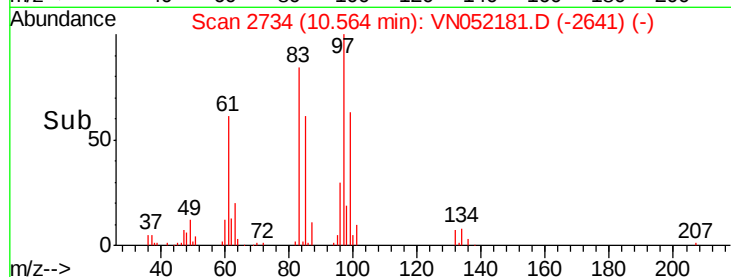
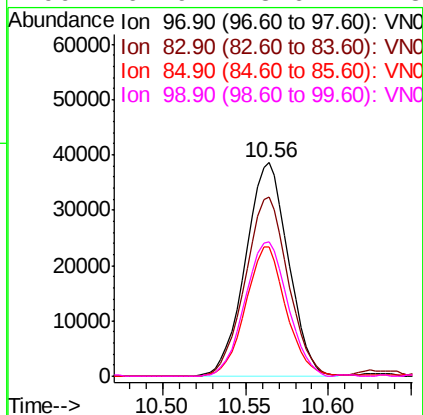
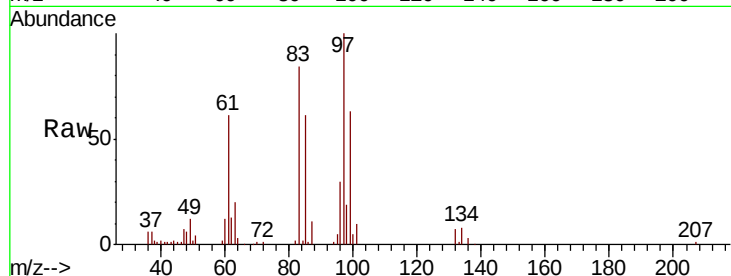
ClientSampleId :

VN1106WBS02

Tot Ion:	97	Resp:	69192
Ion	Ratio	Lower	Upper
97	100		
83	83.7	73.8	110.8
85	60.7	48.4	72.6
99	62.9	48.6	72.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 18.880 ug/l

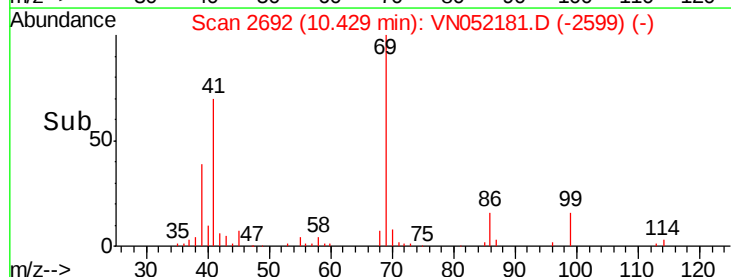
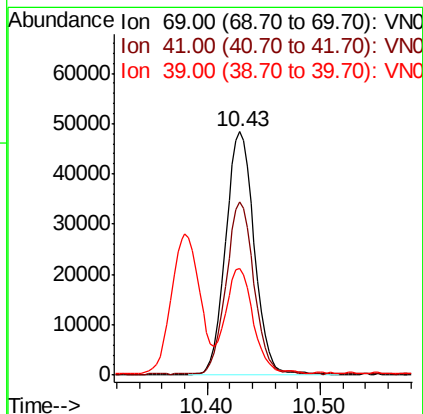
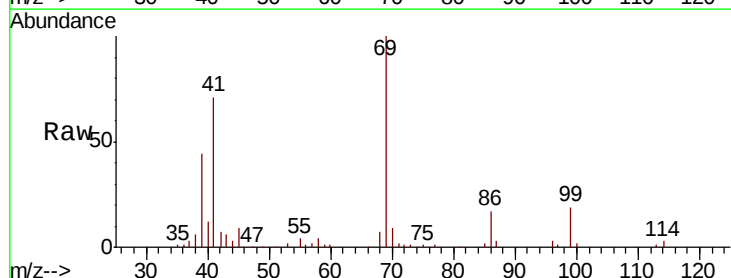
RT: 10.43 min Scan# 2692

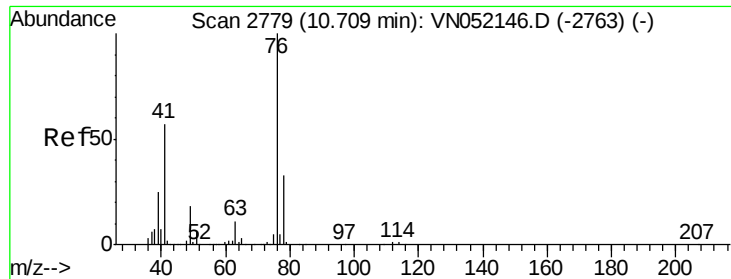
Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion:	69	Resp:	85361
Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.5	83.3
39	39.9	33.0	49.4





#57

1,3-Dichloropropane

Concen: 19.150 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 76 Resp: 117023

Ion Ratio Lower Upper

76 100

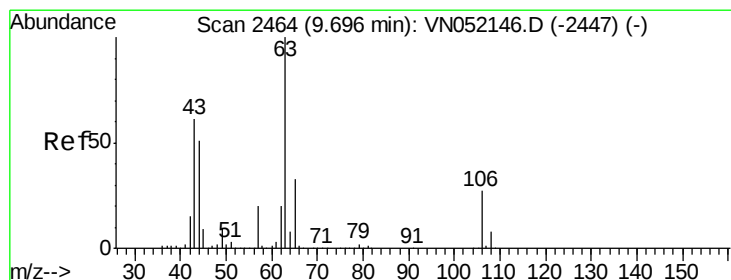
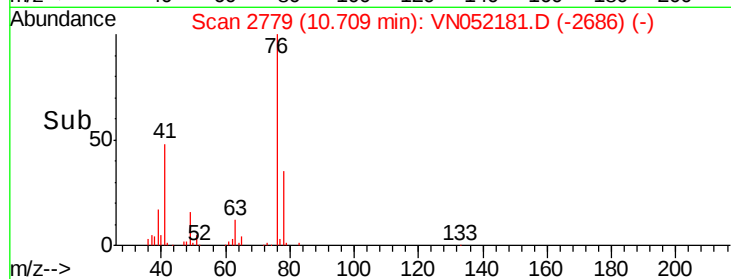
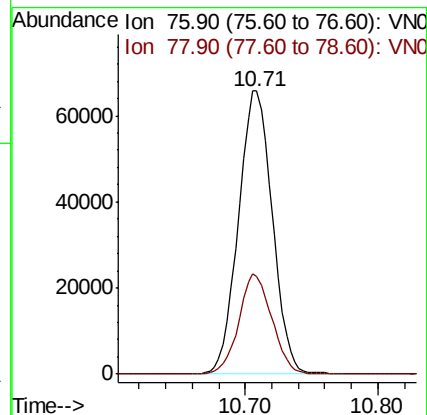
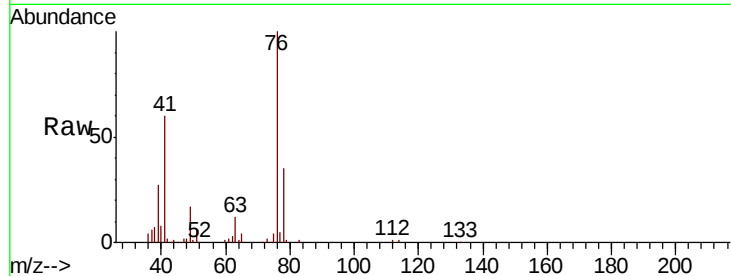
78 34.2 25.4 38.0

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 90.116 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. -0.00 min

Lab File: VN052181.D

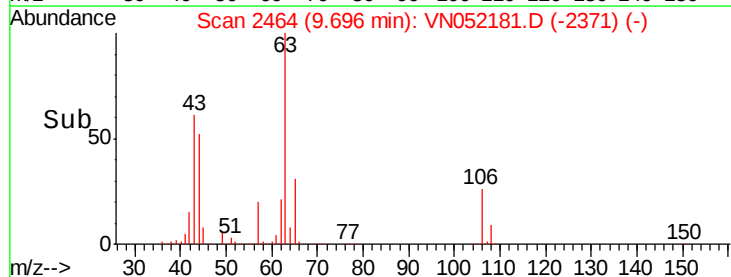
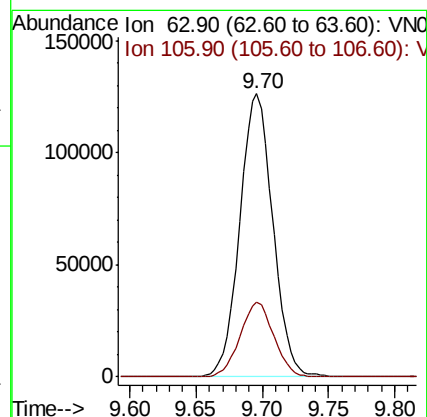
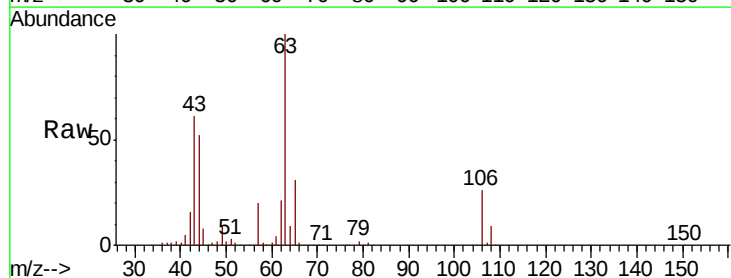
Acq: 6 Nov 2018 10:21

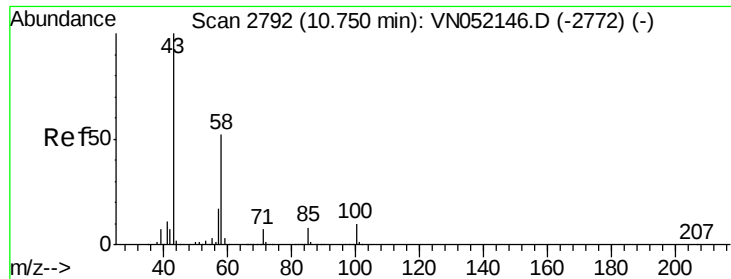
Tgt Ion: 63 Resp: 219274

Ion Ratio Lower Upper

63 100

106 26.8 19.4 29.2





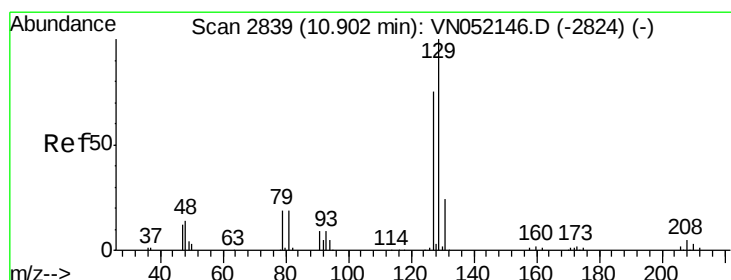
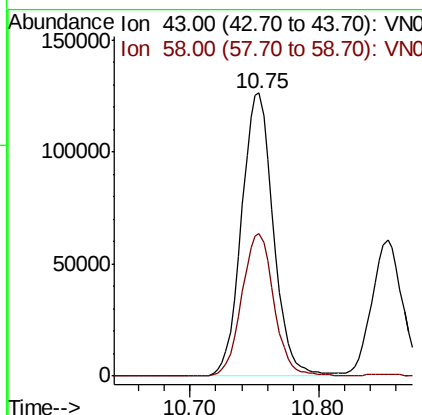
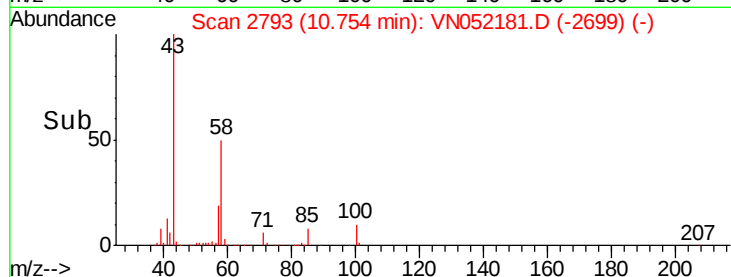
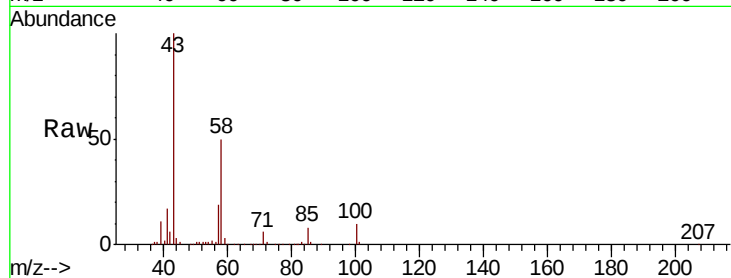
#59
2-Hexanone
Concen: 92.542 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion: 43 Resp: 215518
Ion Ratio Lower Upper
43 100
58 51.1 25.2 75.6

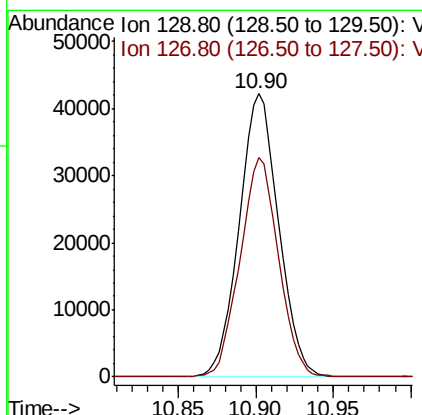
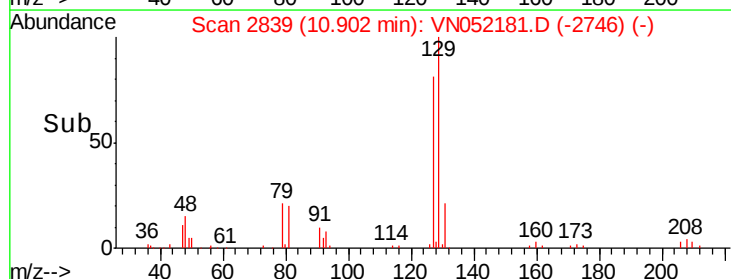
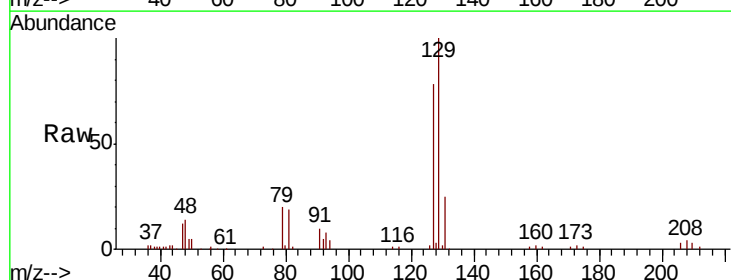
Manual Integrations
APPROVED

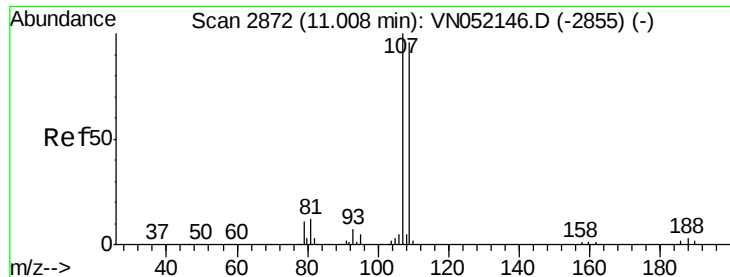
MMDadoda
11/6/2018 5:58:44 PM



#60
Dibromochloromethane
Concen: 18.932 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion: 129 Resp: 74680
Ion Ratio Lower Upper
129 100
127 75.6 38.5 115.5





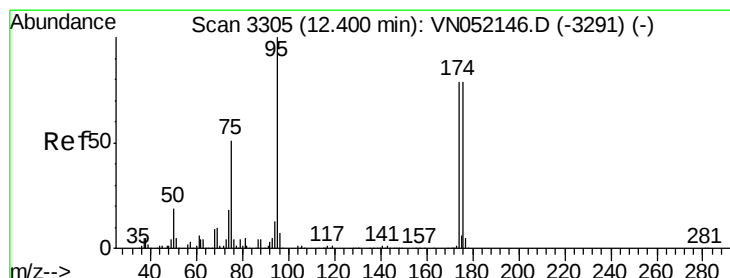
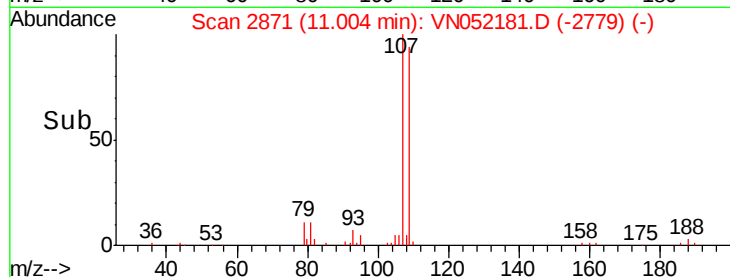
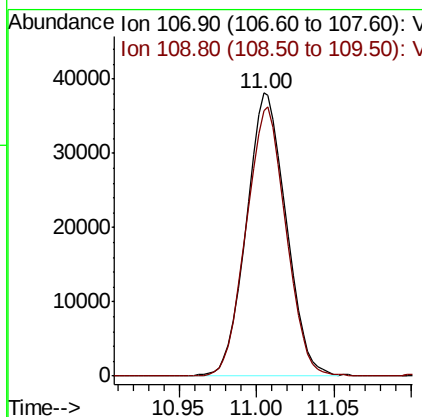
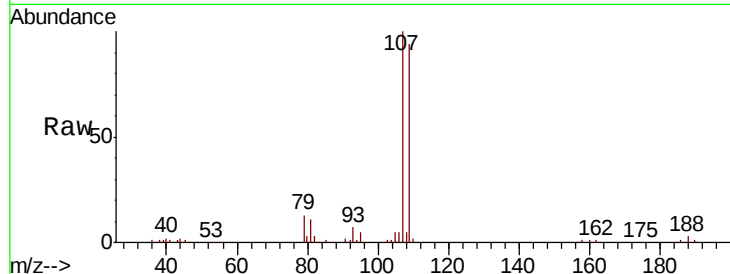
#61
 1,2-Dibromoethane
 Concen: 19.391 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.1	112.7

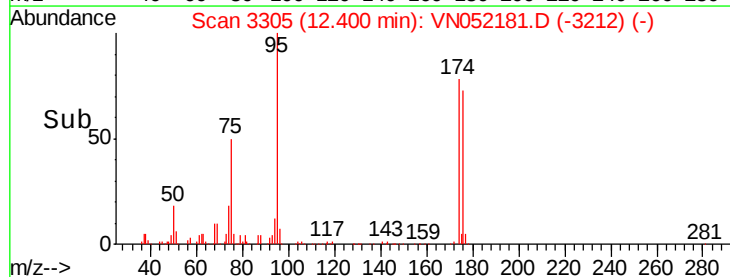
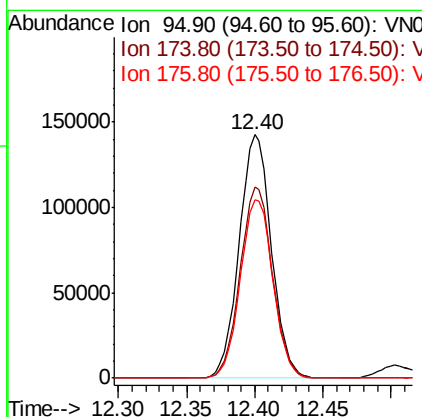
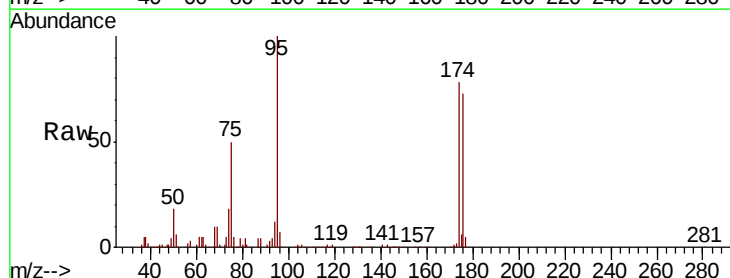
Manual Integrations
 APPROVED

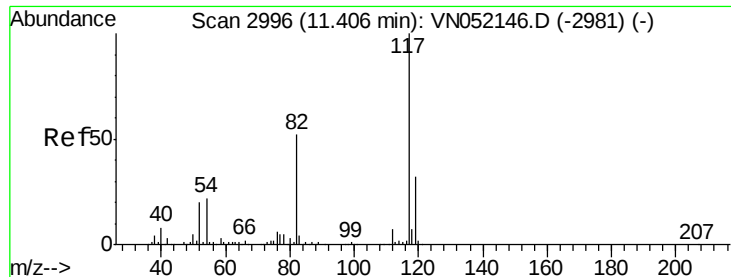
MMDadoda
 11/6/2018 5:58:44 PM



#62
 4-Bromofluorobenzene
 Concen: 19.391 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.6	0.0	131.8
176	74.3	0.0	126.0





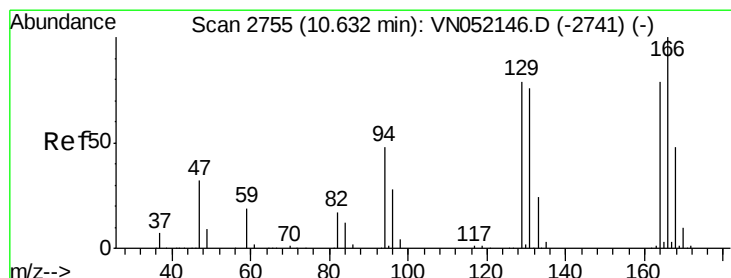
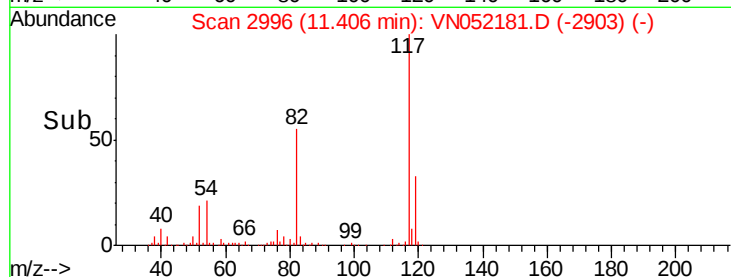
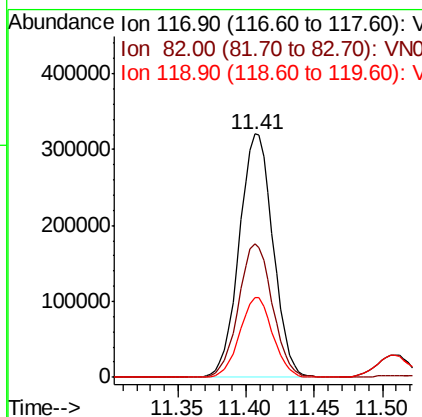
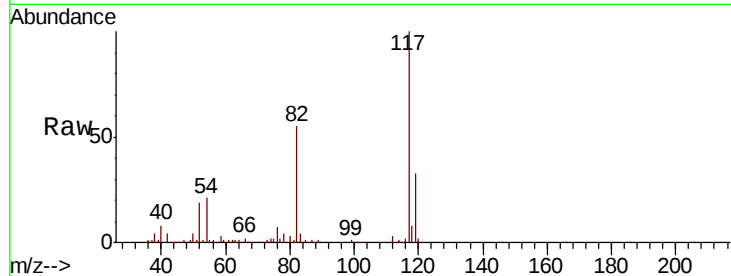
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	49.9	74.9
119	33.0	25.7	38.5

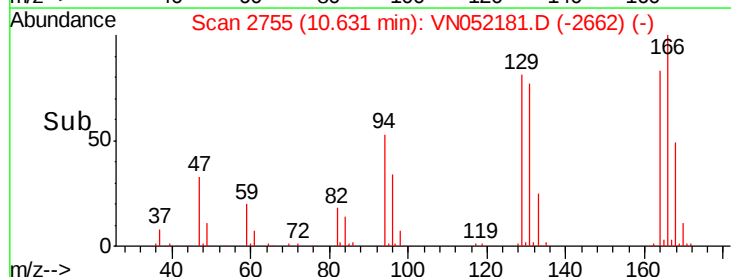
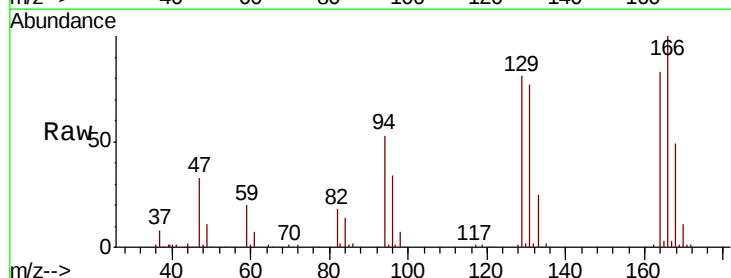
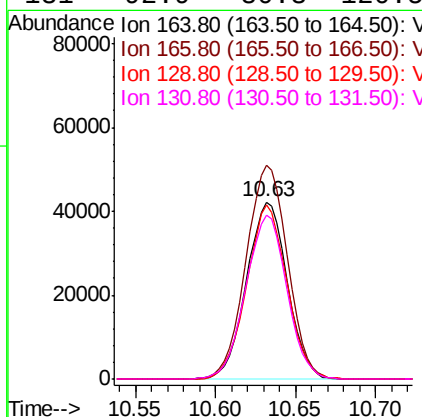
Manual Integrations
APPROVED

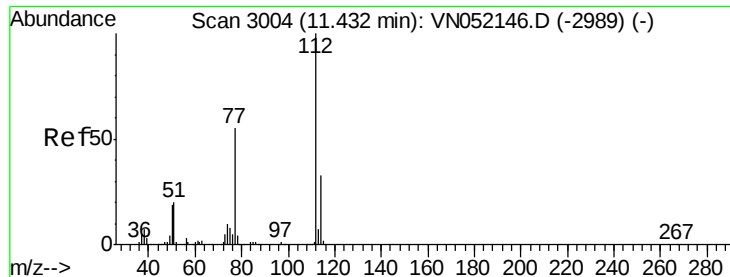
MMDadoda
11/6/2018 5:58:44 PM



#64
Tetrachloroethene
Concen: 20.494 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.9	105.4	158.0
129	98.5	86.1	129.1
131	92.9	80.3	120.5





#65

Chlorobenzene

Concen: 19.357 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion:112 Resp: 217374

Ion Ratio Lower Upper

112 100

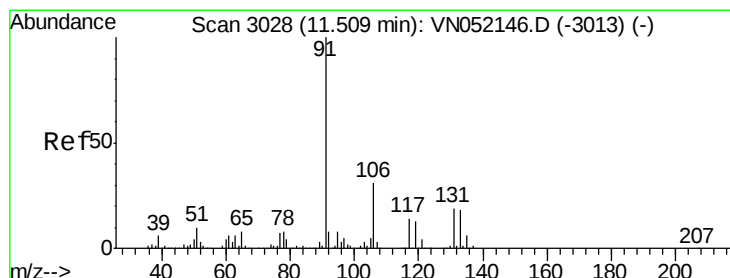
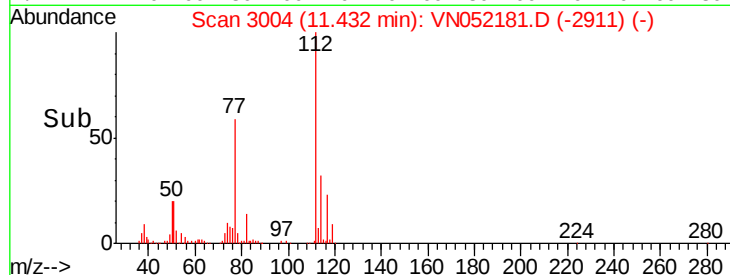
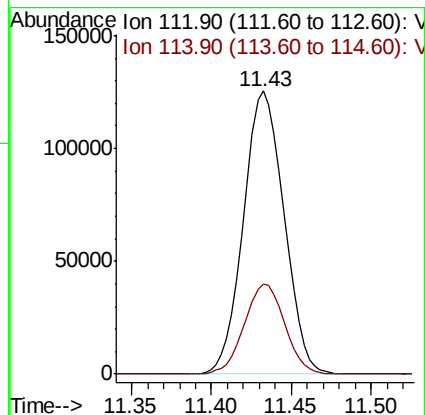
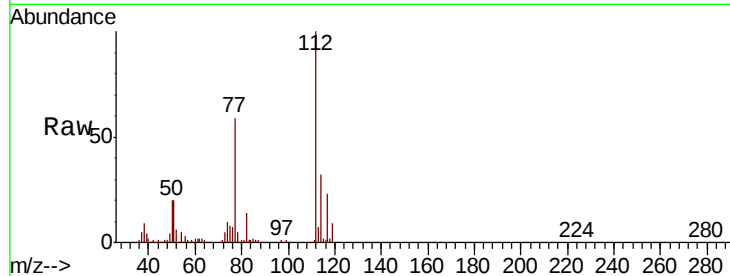
114 32.0 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

11/6/2018 5:58:44 PM



#66

1,1,1,2-Tetrachloroethane

Concen: 20.146 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

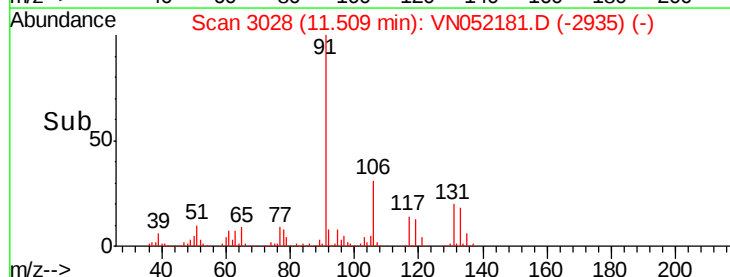
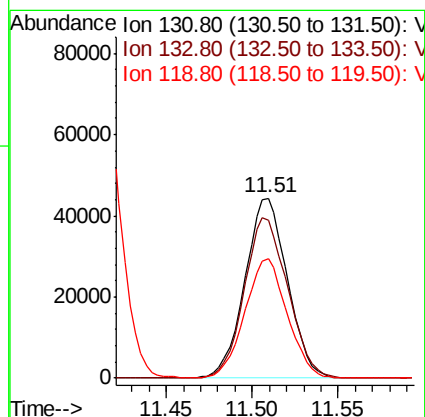
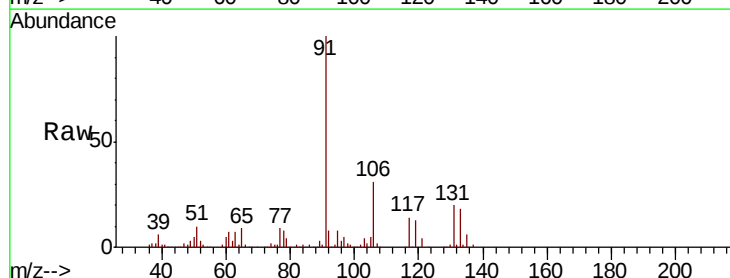
Tgt Ion:131 Resp: 75978

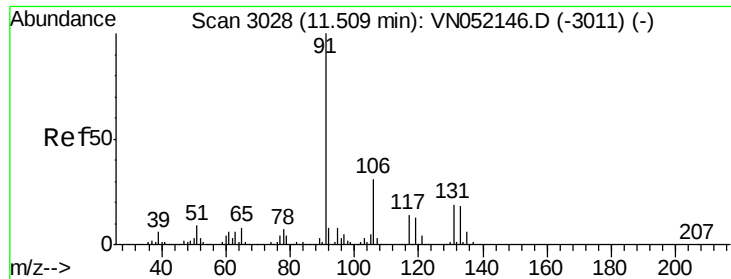
Ion Ratio Lower Upper

131 100

133 91.2 47.6 142.9

119 66.3 34.4 103.2





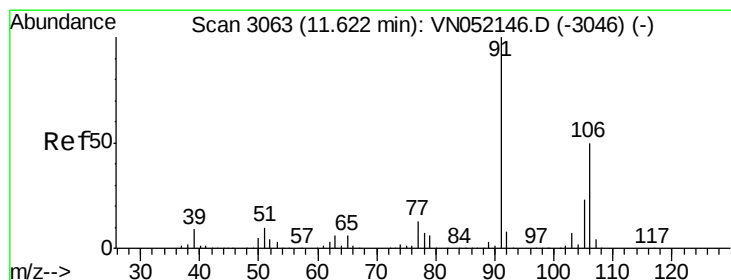
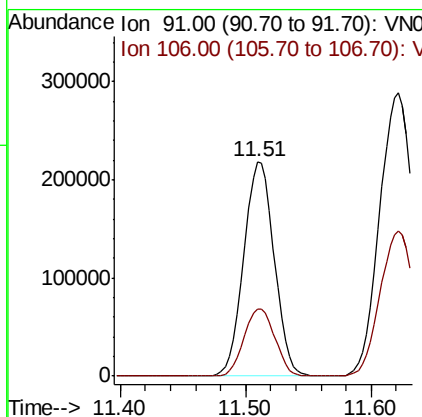
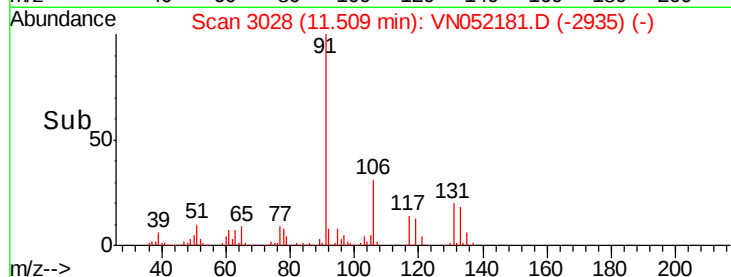
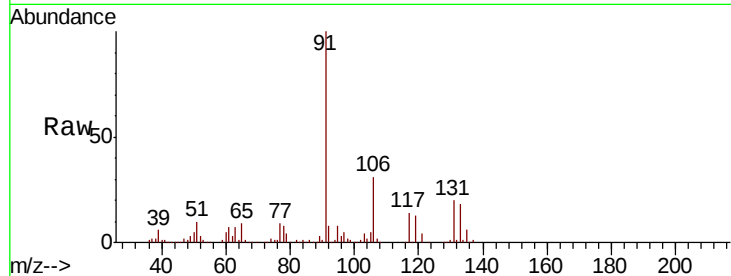
#67
Ethyl Benzene
Concen: 19.715 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion: 91 Resp: 367722
Ion Ratio Lower Upper
91 100
106 31.2 24.1 36.1

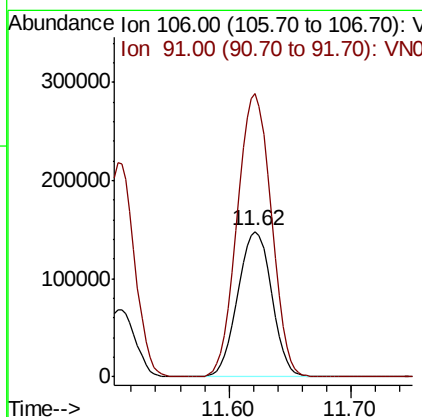
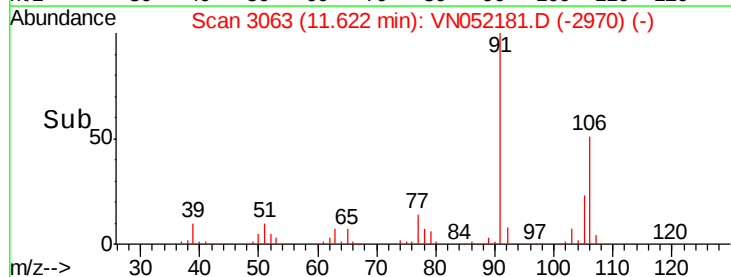
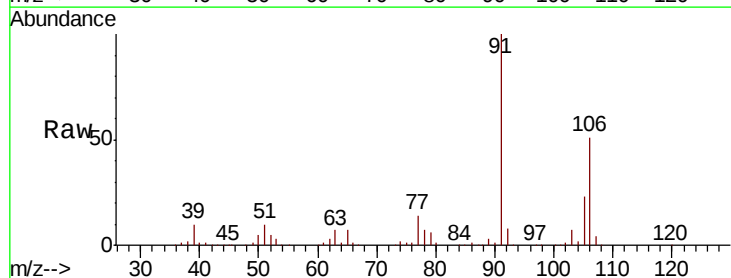
Manual Integrations
APPROVED

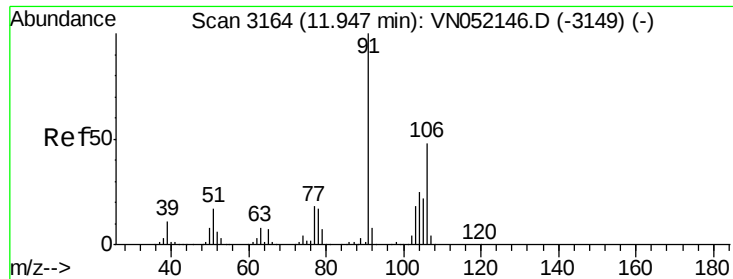
MMDadoda
11/6/2018 5:58:44 PM



#68
m/p-Xylenes
Concen: 39.663 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion: 106 Resp: 285456
Ion Ratio Lower Upper
106 100
91 195.1 168.7 253.1





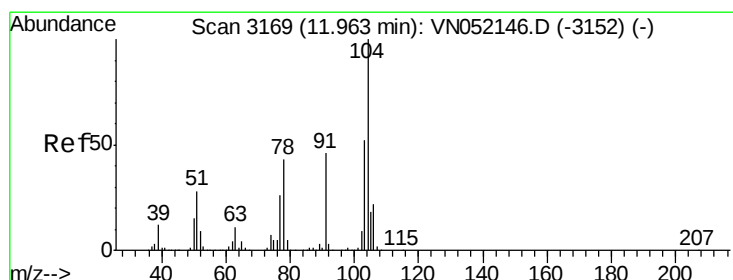
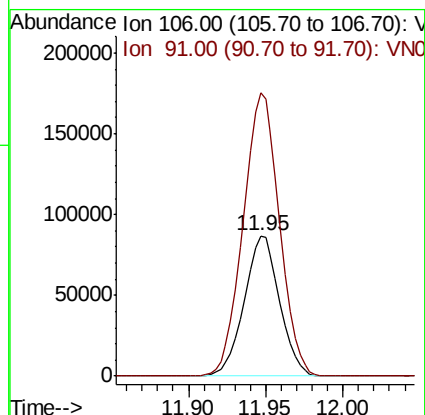
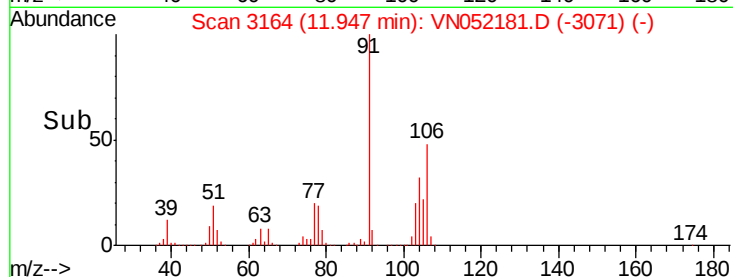
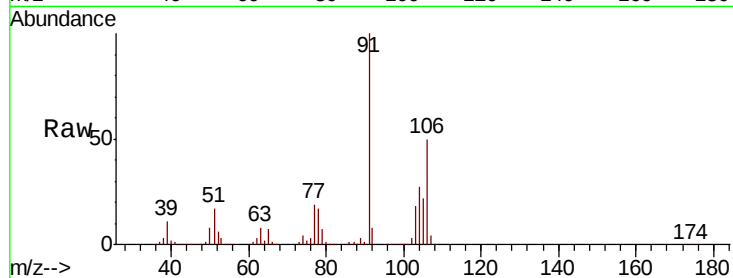
#69
o-Xylene
Concen: 19.803 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampled :
VN1106WBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100				
91	206.9	109.6	138216	328.6	

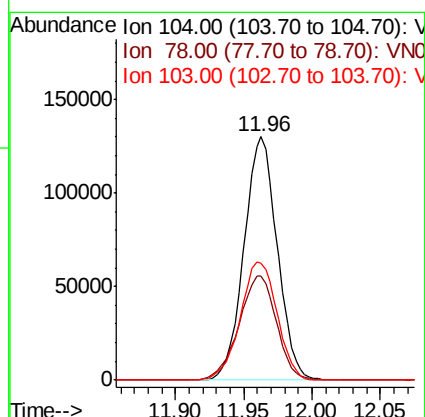
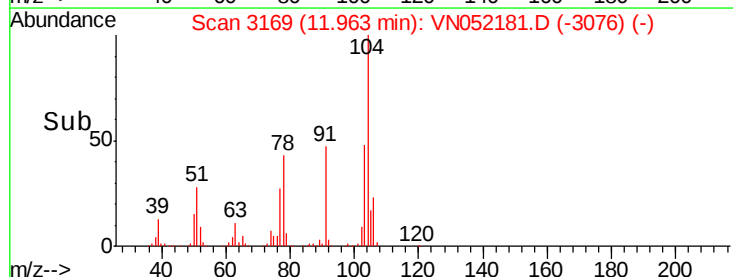
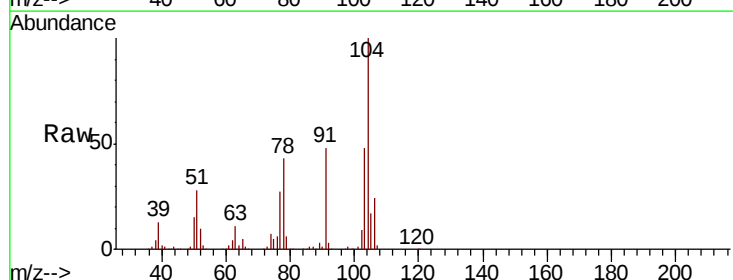
Manual Integrations
APPROVED

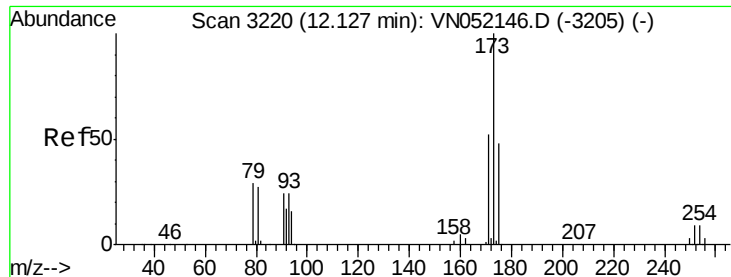
MMDadoda
11/6/2018 5:58:44 PM



#70
Styrene
Concen: 19.904 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100				
78	48.2	43.0	219919	64.6	
103	53.8	45.1		67.7	





#71

Bromoform

Concen: 17.874 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

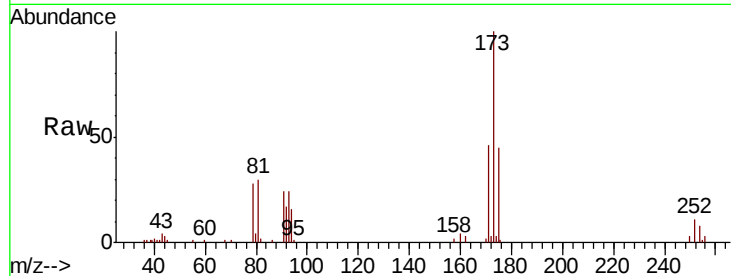
ClientSampleId :

VN1106WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	23.9	71.7
254	0.1	0.0	0.0

Manual Integrations
APPROVED

MMDadoda
11/6/2018 5:58:44 PM

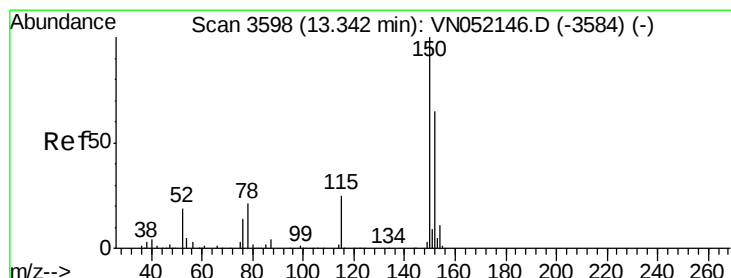
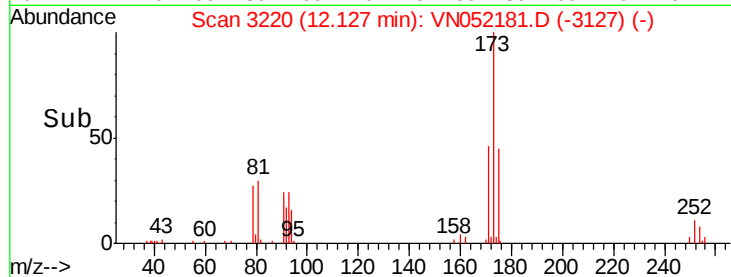
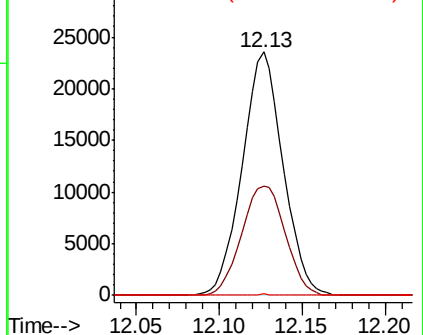


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

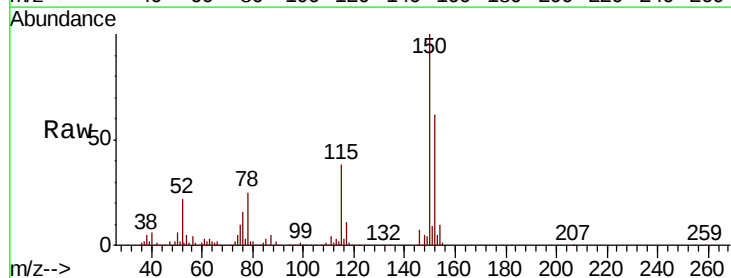
RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	31.6	95.0
150	162.9	0.0	345.0

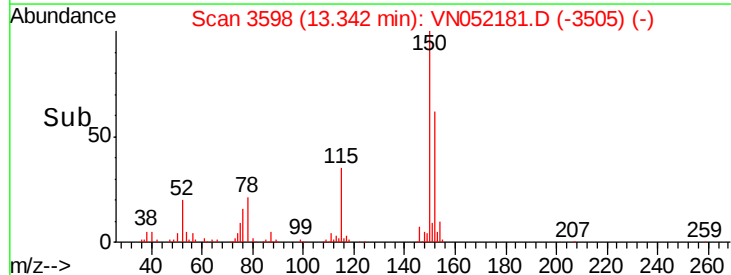
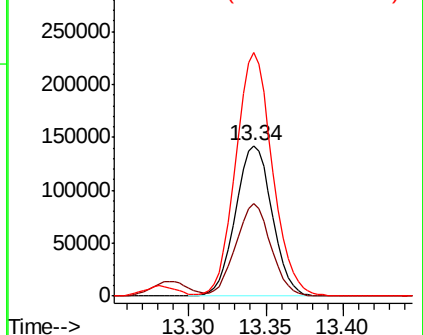


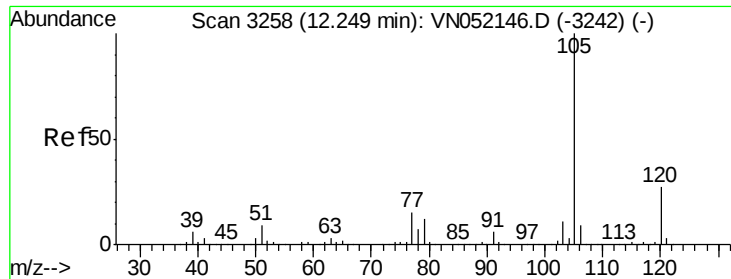
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 20.138 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 105 Resp: 355399

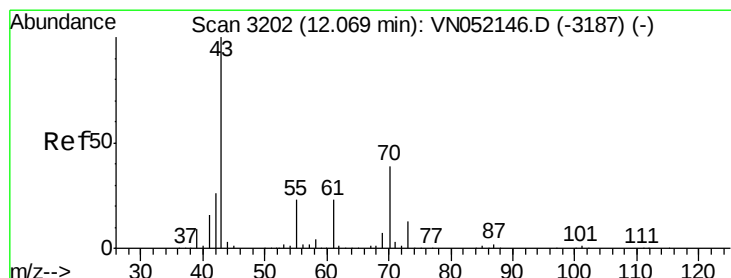
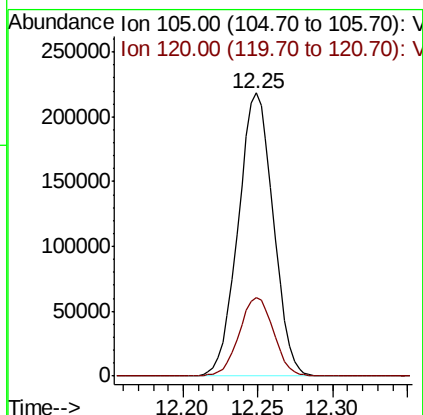
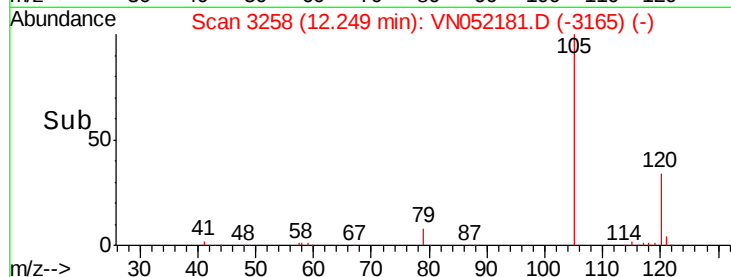
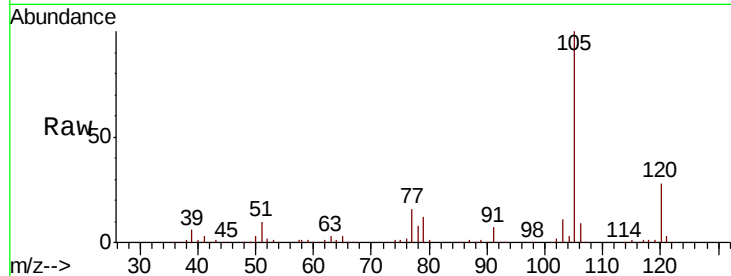
Ion Ratio Lower Upper

105 100

120 27.1 12.8 38.4

Manual Integrations
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11/6/2018 5:58:44 PM



#74

N-ethyl acetate

Concen: 18.450 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion: 43 Resp: 98932

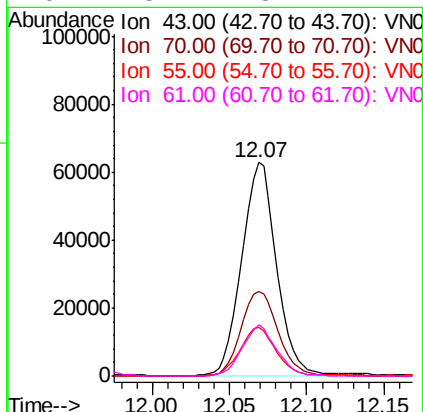
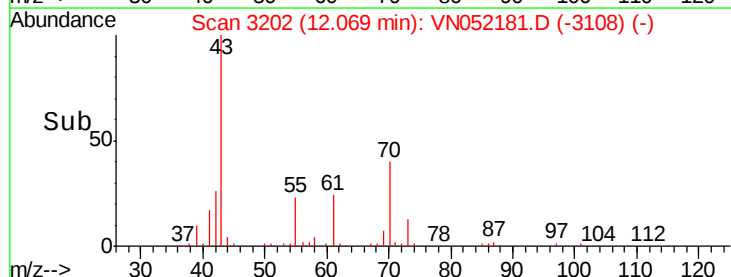
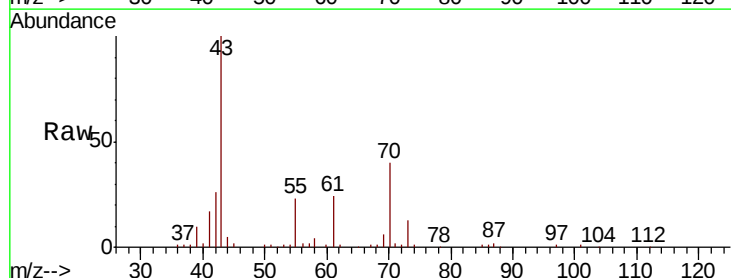
Ion Ratio Lower Upper

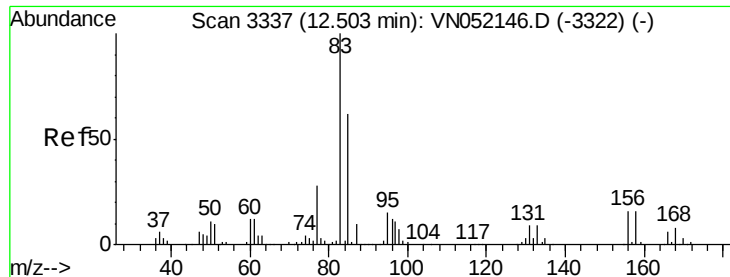
43 100

70 42.3 31.9 47.9

55 23.7 18.4 27.6

61 23.4 18.2 27.4





#75

1,1,2,2-Tetrachloroethane

Concen: 20.041 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

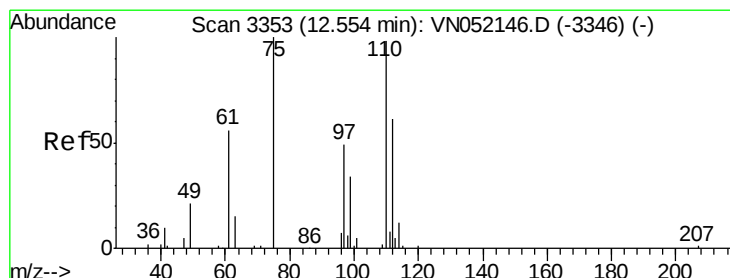
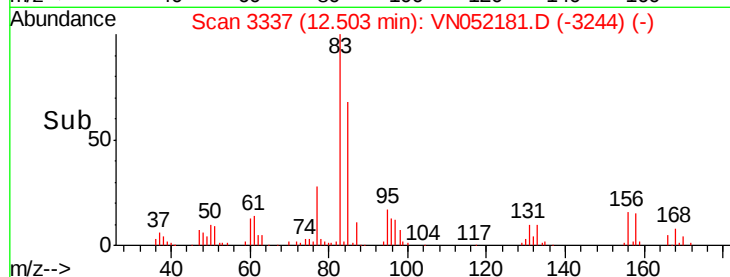
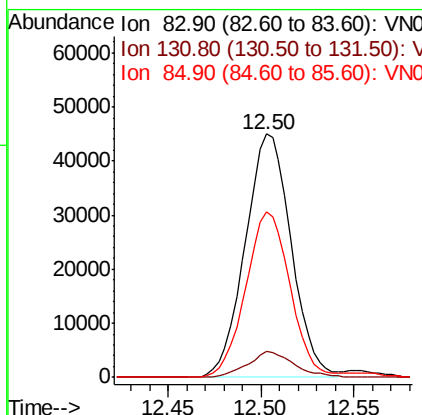
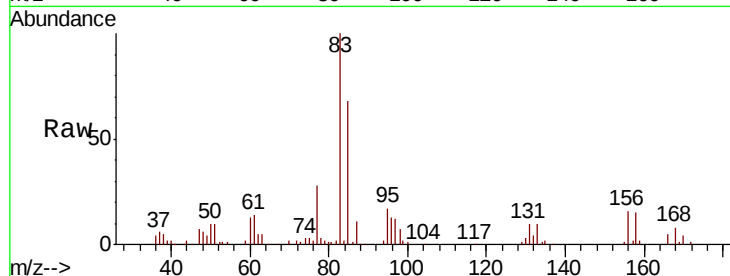
ClientSampleId :

VN1106WBS02

Tot Ion:	83	Resp:	77418
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.5	13.4
85	65.9	31.3	93.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 22.615 ug/l m

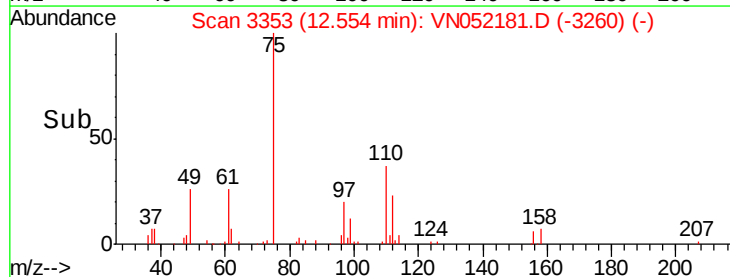
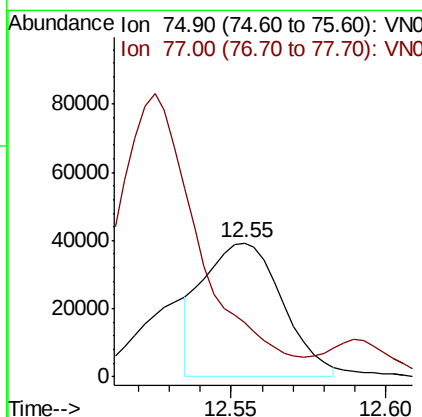
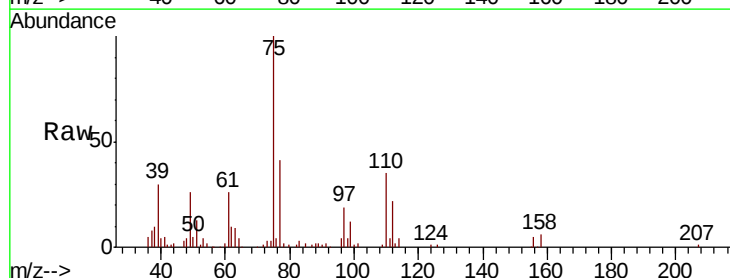
RT: 12.55 min Scan# 3353

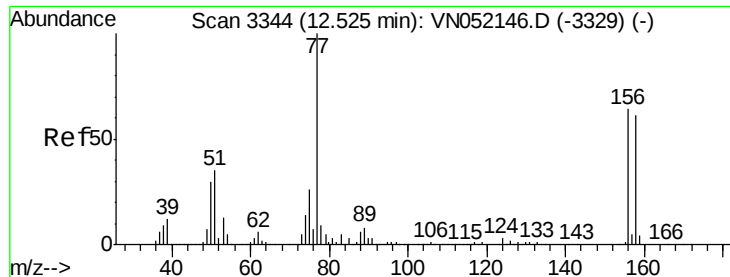
Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion:	75	Resp:	69770
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.753 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

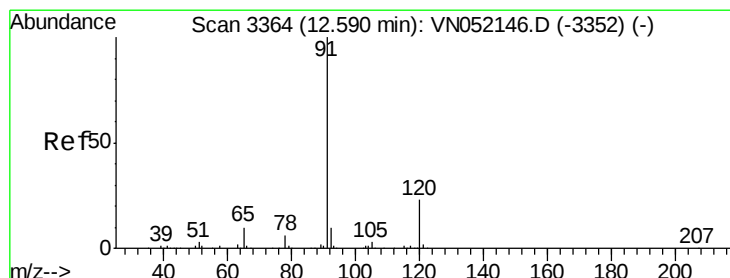
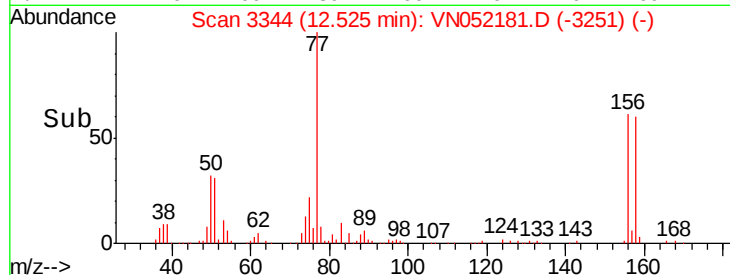
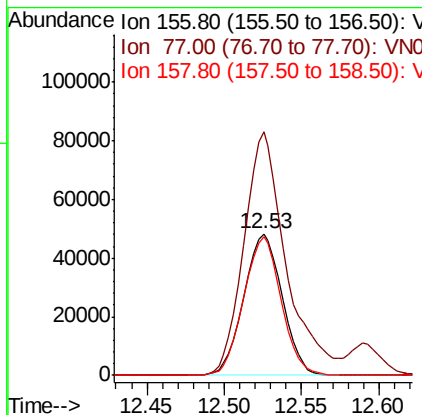
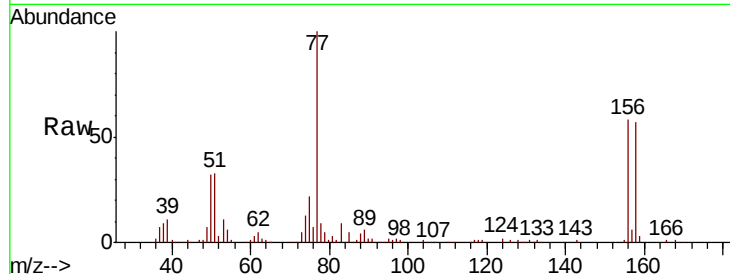
ClientSampleId :

VN1106WBS02

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	189.8	119.6	358.6	
158	96.1	47.8	143.4	

Manual Integrations
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#78

n-propylbenzene

Concen: 19.986 ug/l

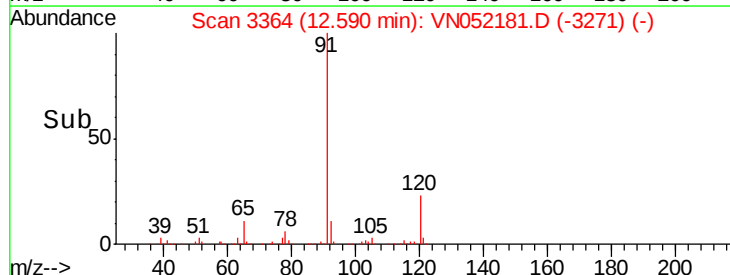
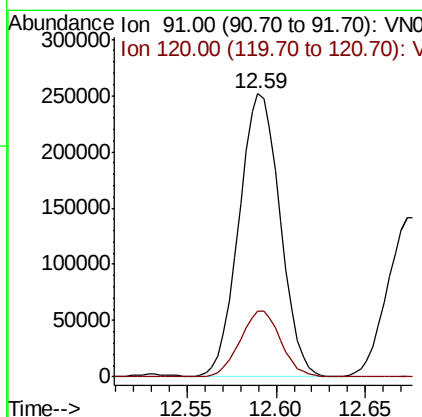
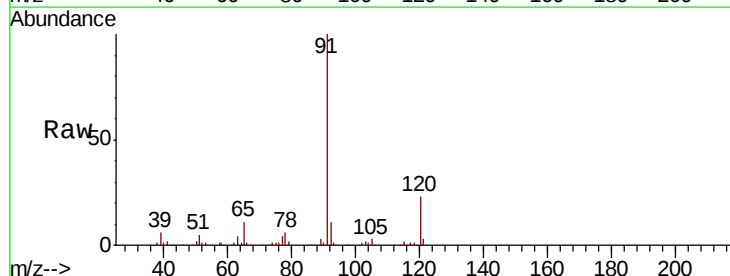
RT: 12.59 min Scan# 3364

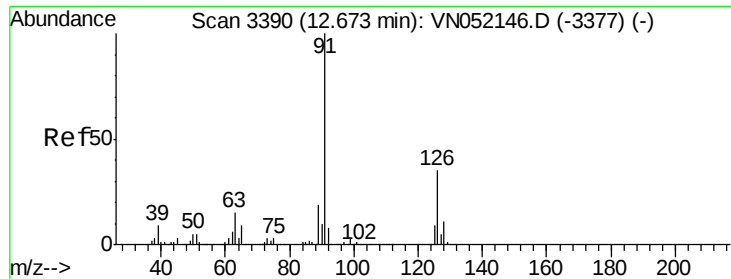
Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.2	10.8	32.4	





#79

2-Chlorotoluene

Concen: 19.769 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN052181.D

Acq: 6 Nov 2018 10:21

Instrument :

MSVOA_N

ClientSampleId :

VN1106WBS02

Tot Ion: 91 Resp: 233821

Ion Ratio Lower Upper

91 100

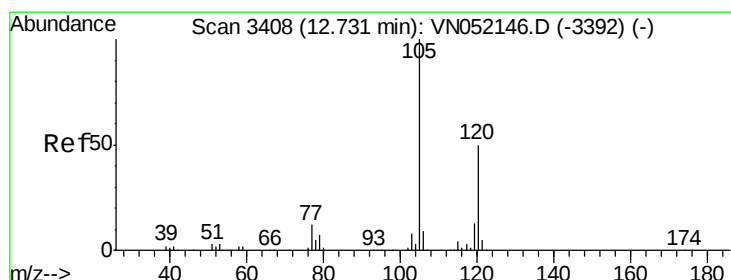
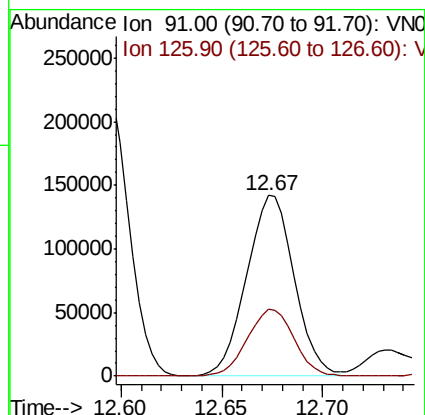
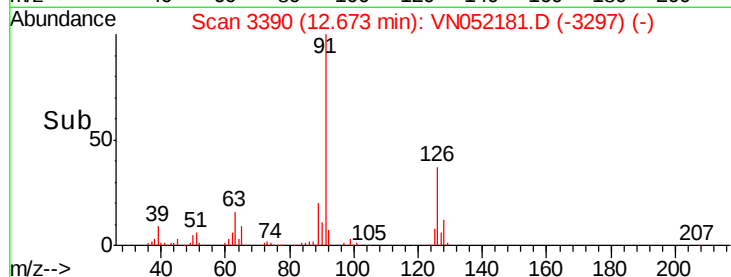
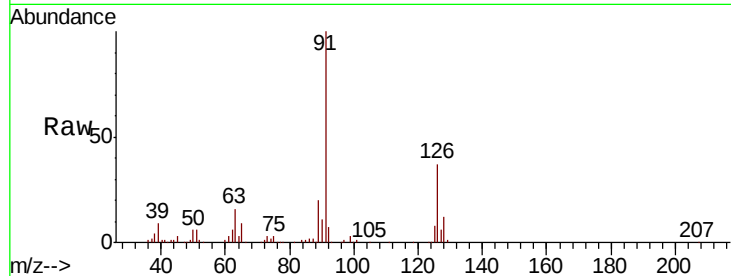
126 36.6 15.9 47.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.909 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052181.D

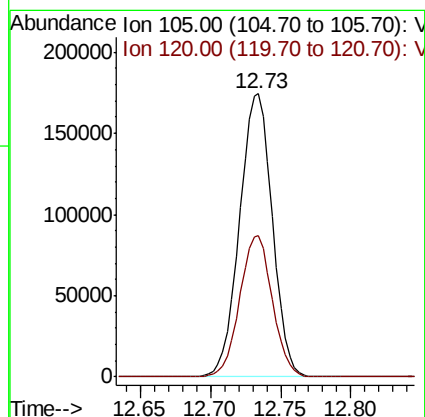
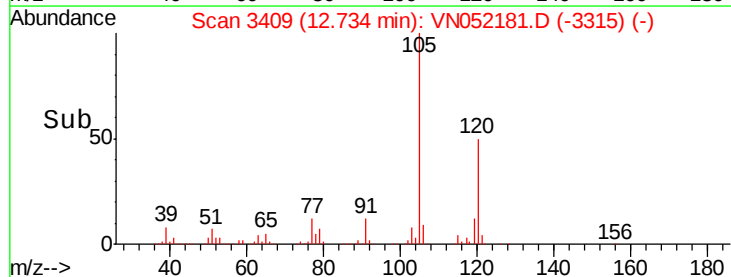
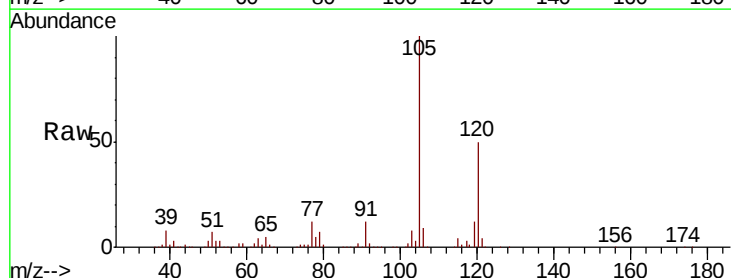
Acq: 6 Nov 2018 10:21

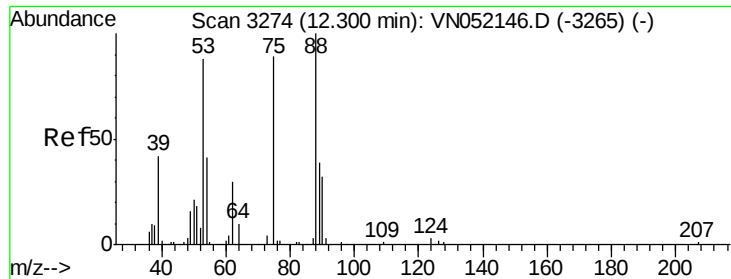
Tgt Ion: 105 Resp: 284405

Ion Ratio Lower Upper

105 100

120 49.6 23.4 70.0





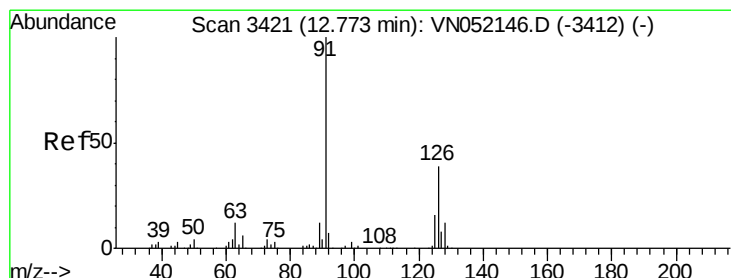
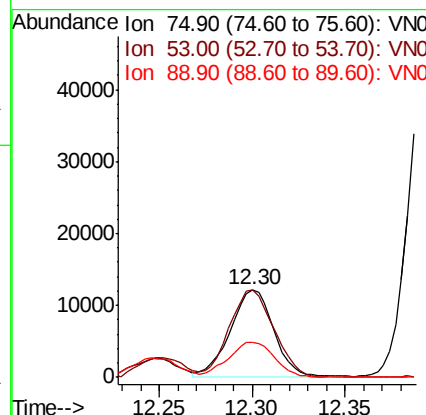
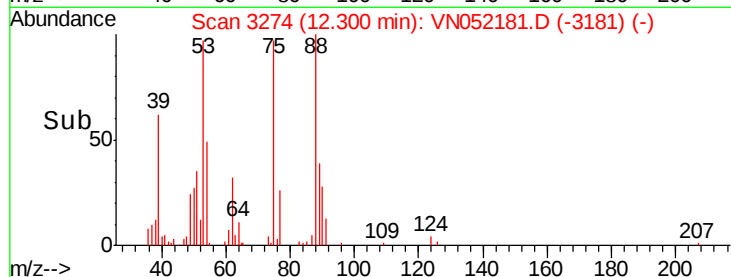
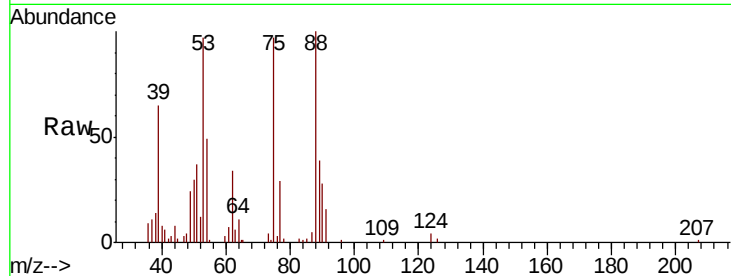
#81
trans-1,4-Dichloro-2-butene
Concen: 19.389 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	102.1	81.8	122.6
89	42.5	36.6	54.8

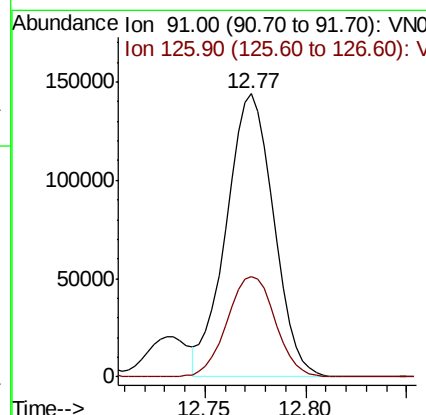
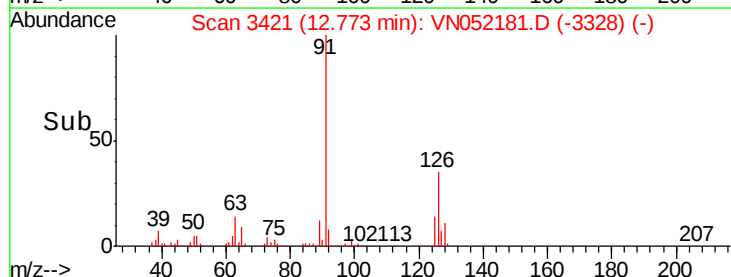
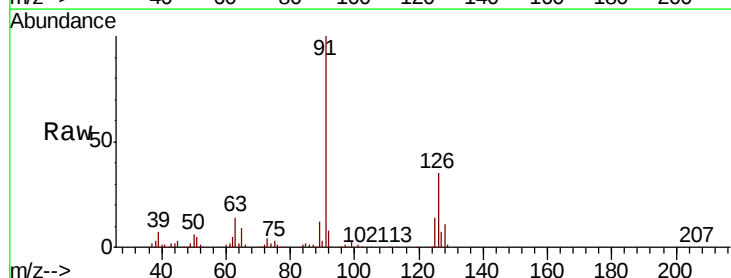
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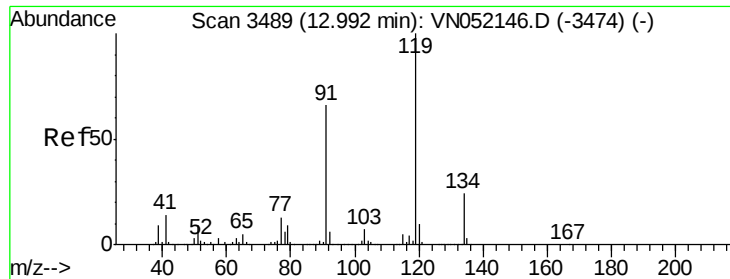
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#82
4-Chlorotoluene
Concen: 19.908 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.1	15.7	47.1





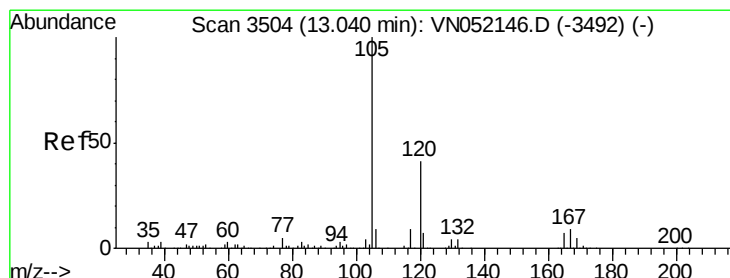
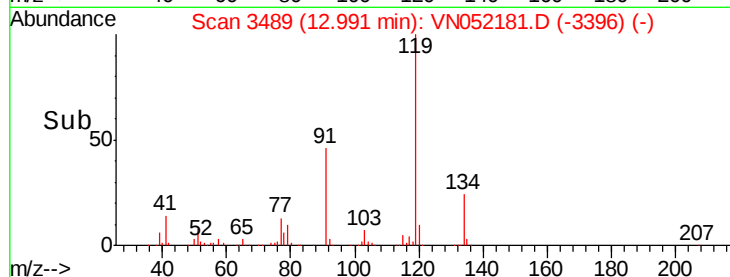
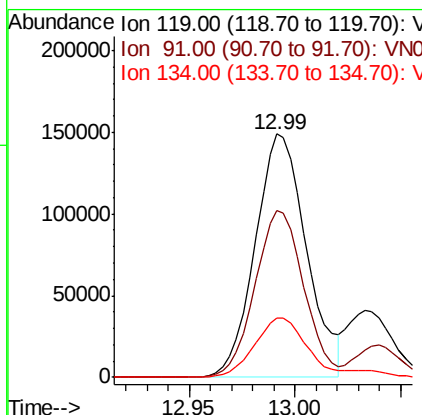
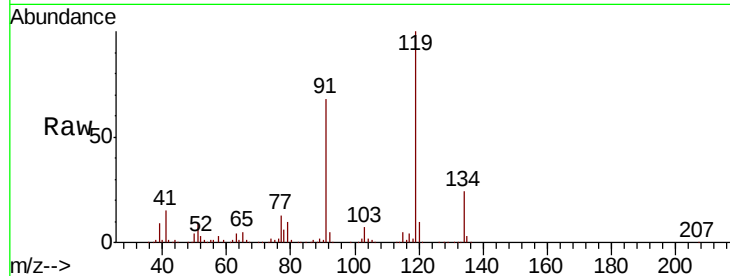
#83
 tert-Butylbenzene
 Concen: 19.990 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.1	36.6	109.9
134	26.6	12.5	37.5

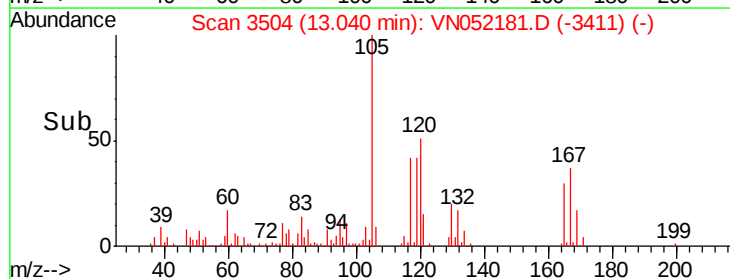
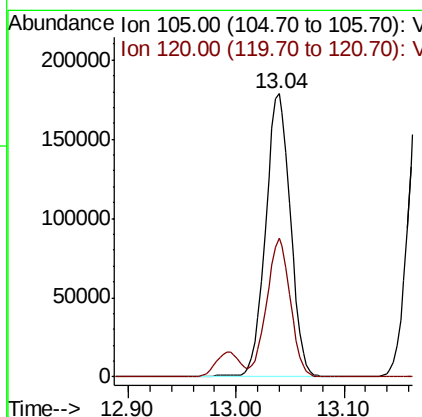
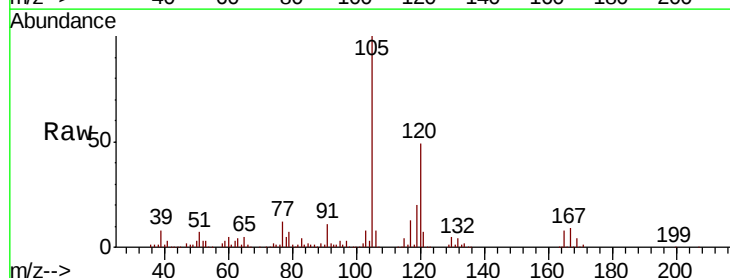
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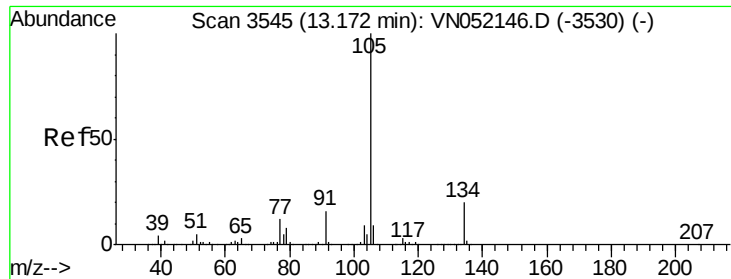
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.027 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	21.9	65.5





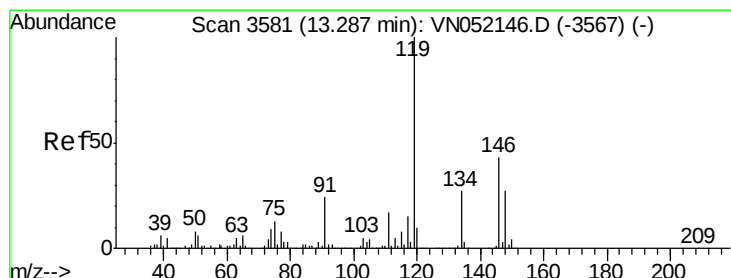
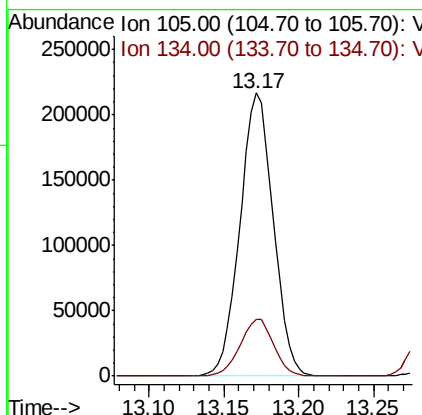
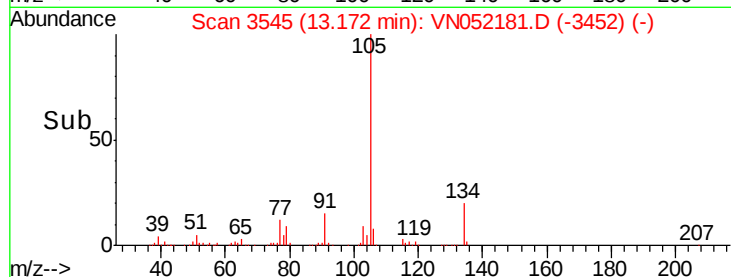
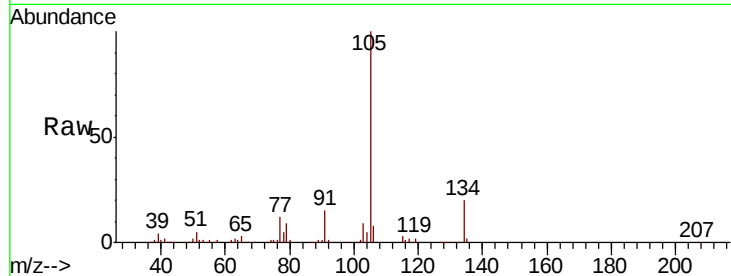
#85
 sec-Butylbenzene
 Concen: 19.690 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleID :
 VN1106WBS02

Tot Ion	Ratio	Resp	Lower	Upper
105	100	335838		
134	20.0	9.1	27.3	

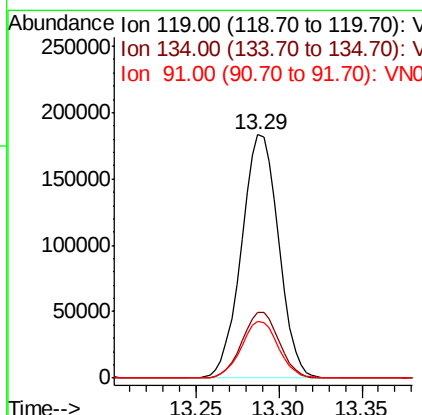
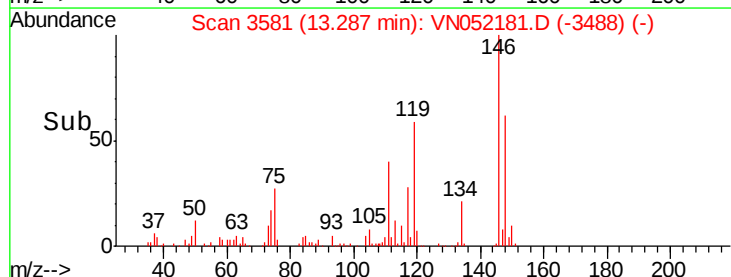
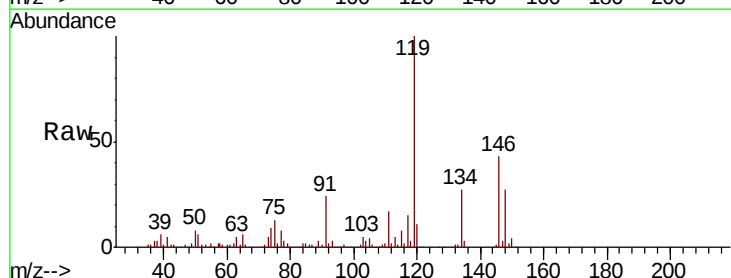
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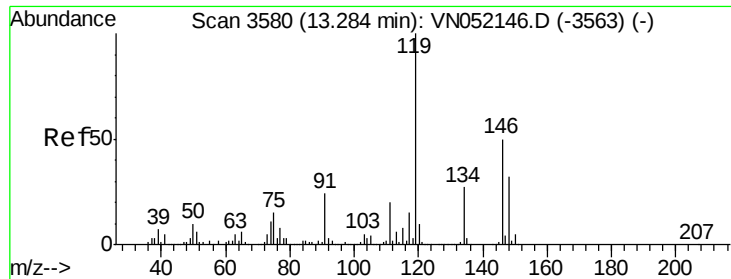
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#86
 p-Isopropyltoluene
 Concen: 19.833 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	284731		
134	27.1	12.8	38.3	
91	23.7	13.4	40.2	





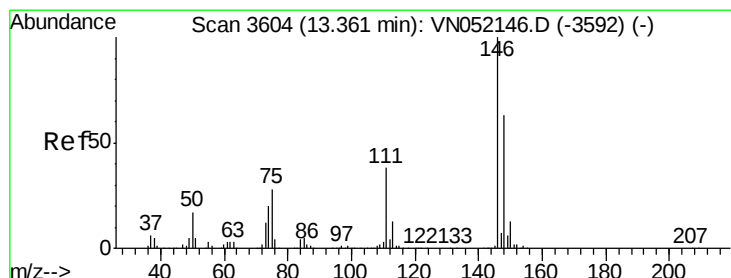
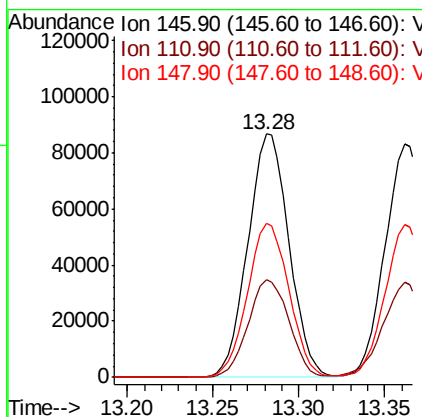
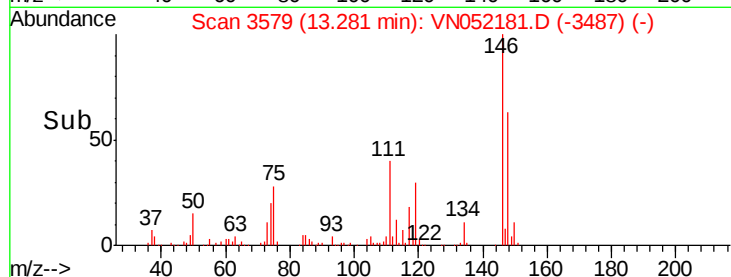
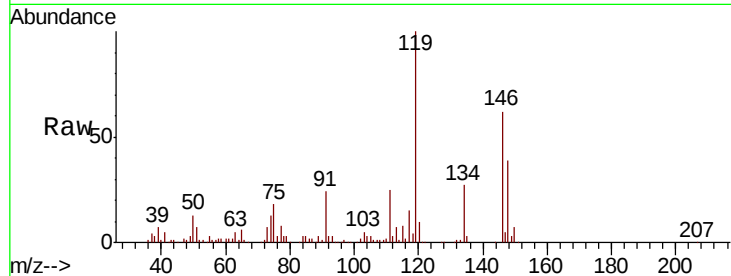
#87
 1,3-Dichlorobenzene
 Concen: 19.379 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	22.9	68.8
148	64.0	31.8	95.4

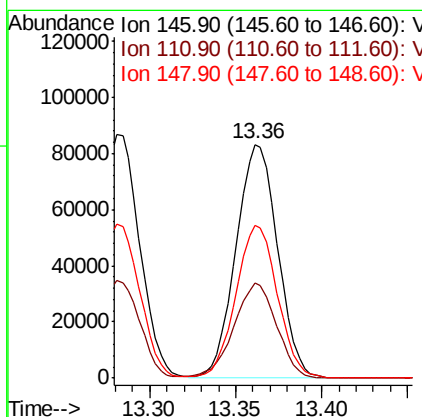
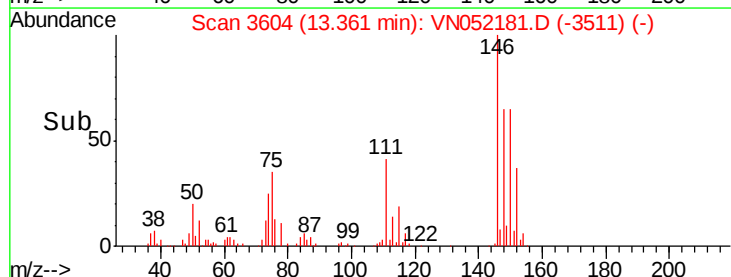
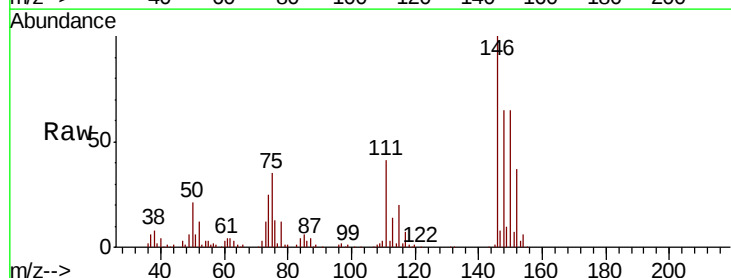
Manual Integrations
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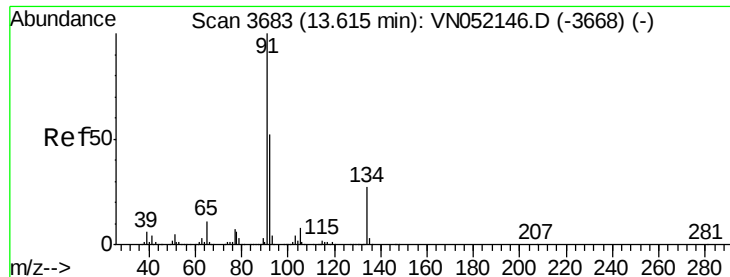
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#88
 1,4-Dichlorobenzene
 Concen: 18.924 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.9	65.8
148	65.2	32.6	98.0





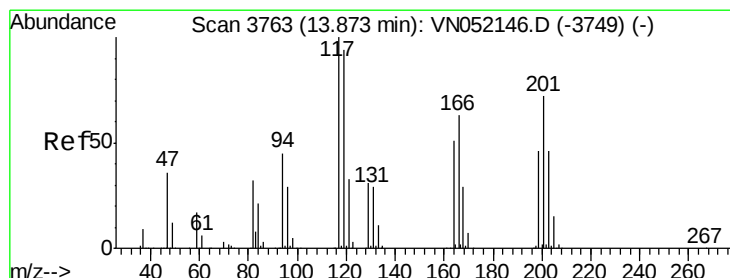
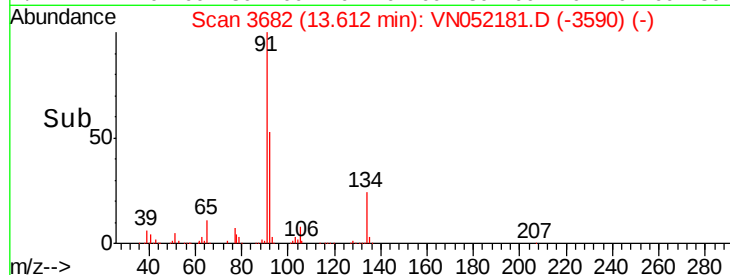
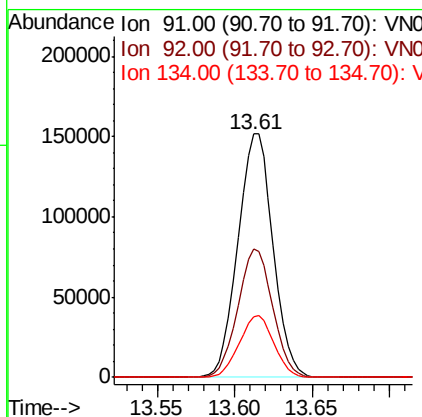
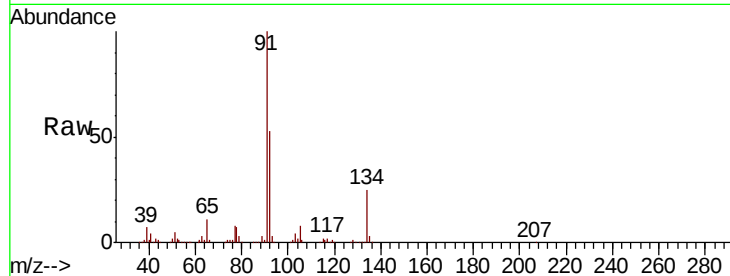
#89
n-Butylbenzene
Concen: 19.229 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.3	75.8
134	25.0	11.2	33.5

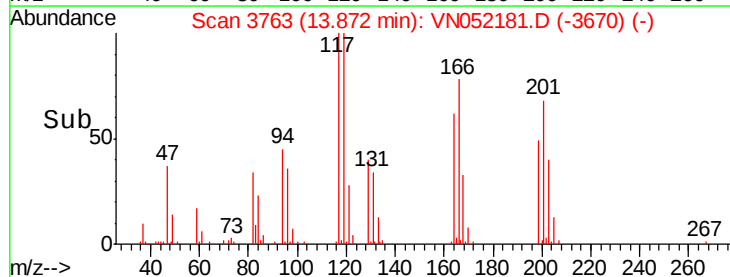
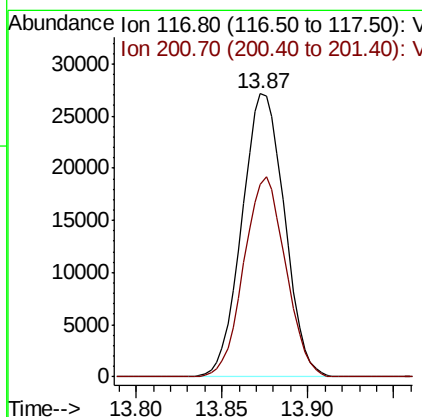
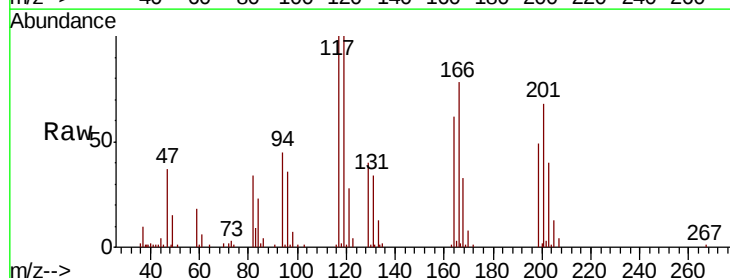
Manual Integrations
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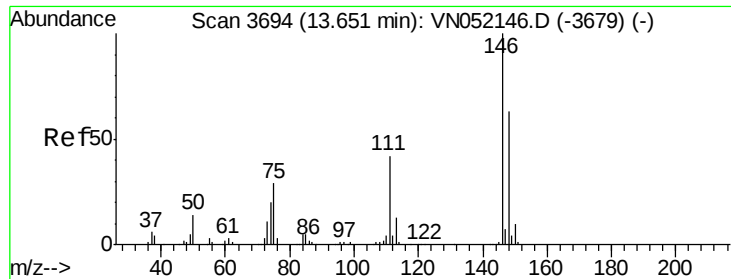
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#90
Hexachloroethane
Concen: 19.315 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	69.3	31.1	93.5





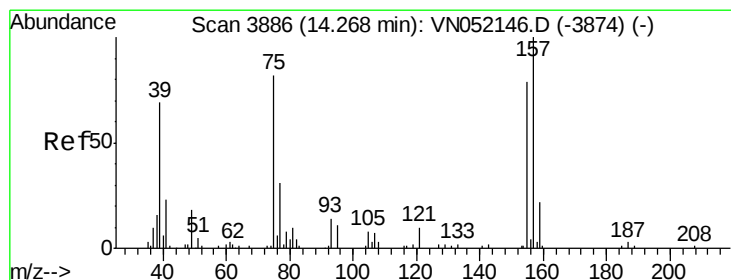
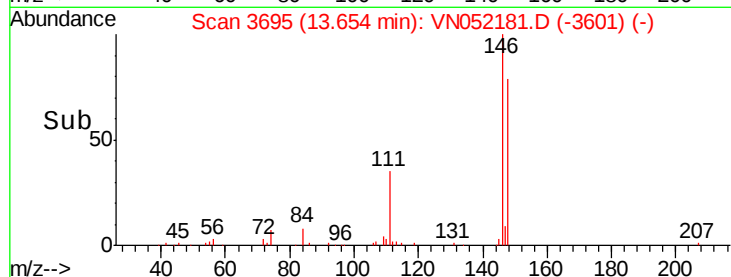
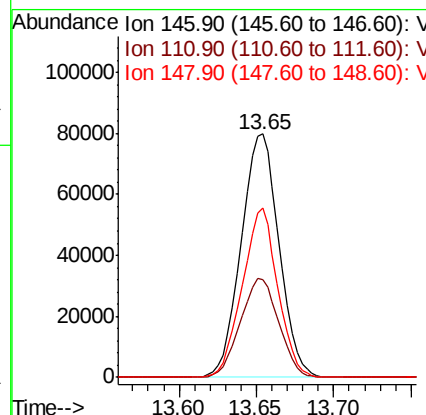
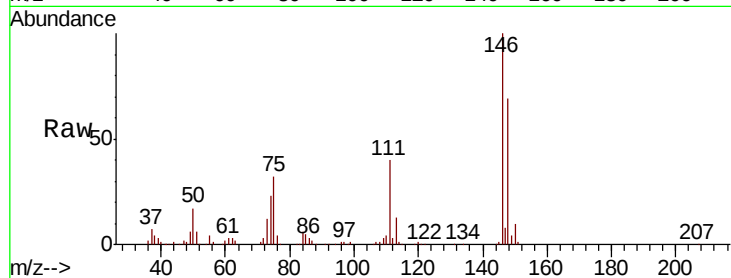
#91
 1,2-Dichlorobenzene
 Concen: 19.420 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	22.5	67.5
148	65.1	30.9	92.8

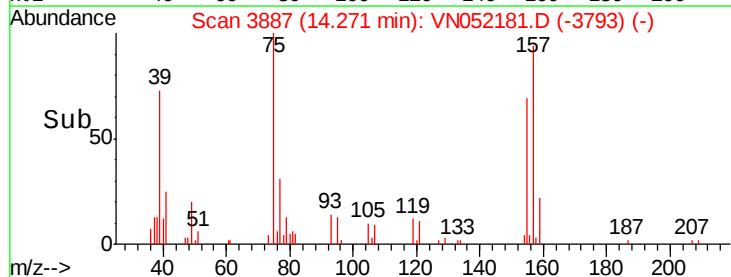
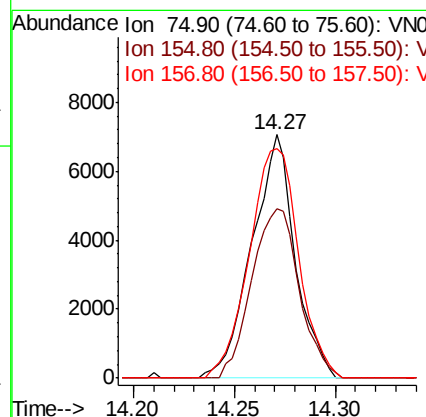
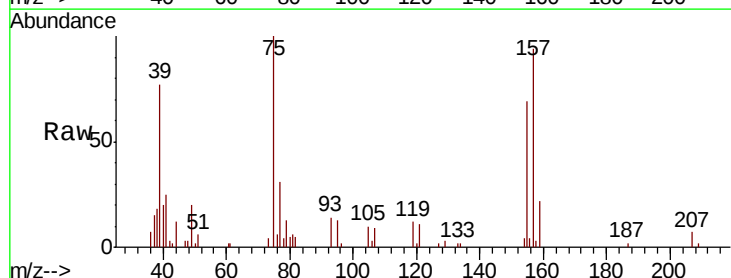
Manual Integrations
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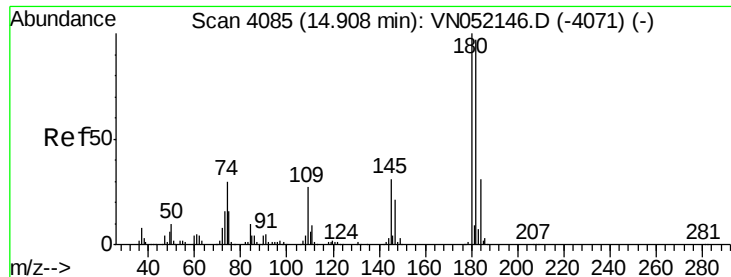
MMDadoda
 11/6/2018 5:58:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.757 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.4	34.0	102.0
157	107.6	42.1	126.4





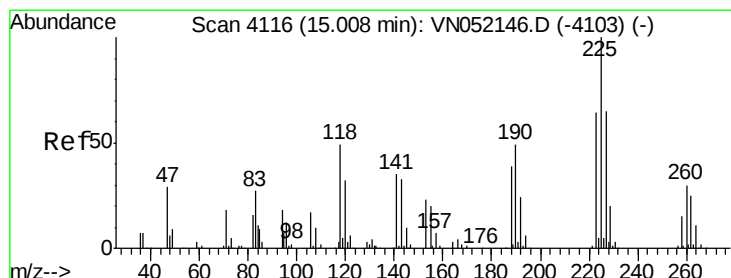
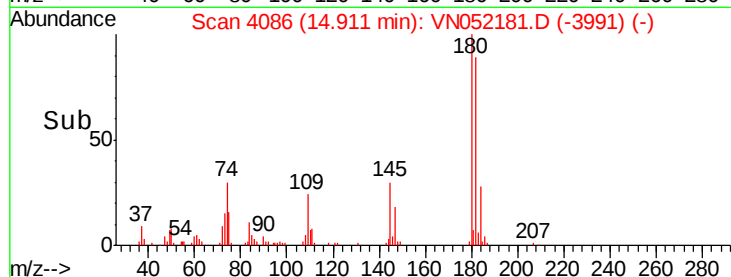
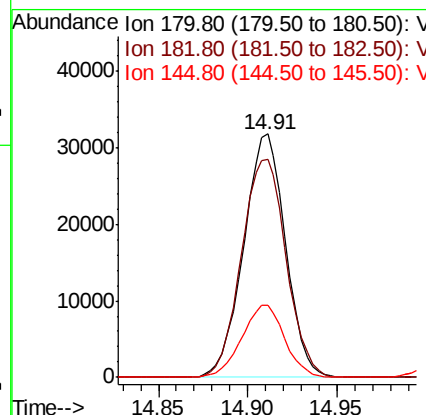
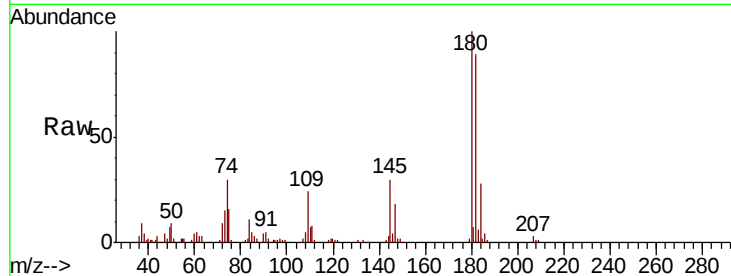
#93
 1,2,4-Trichlorobenzene
 Concen: 17.296 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1106WBS02

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	49.1	147.4
145	30.4	16.4	49.2

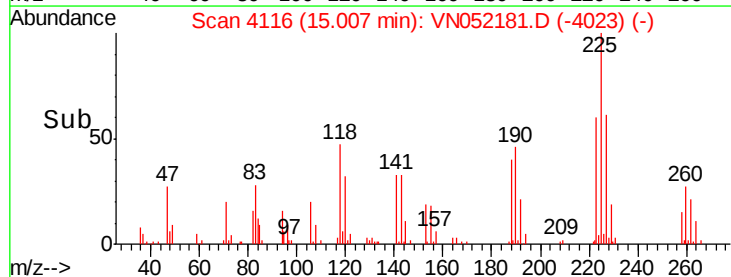
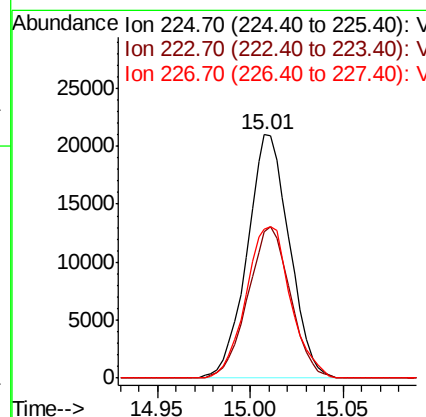
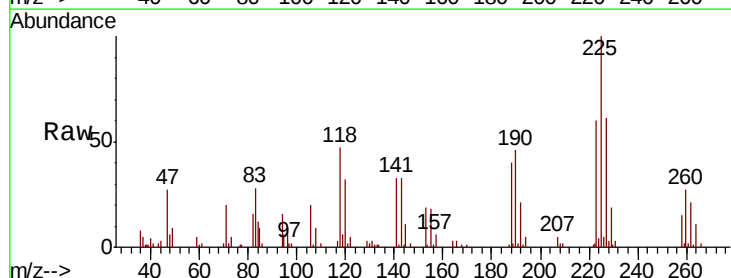
Manual Integrations
 APPROVED

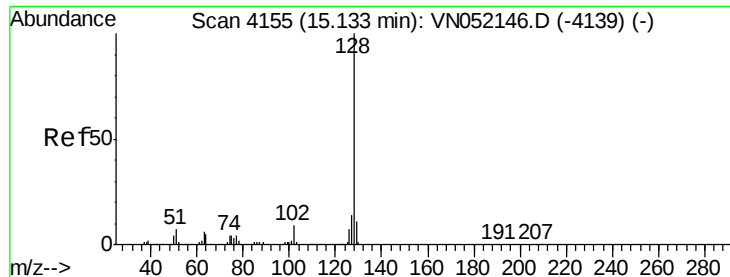
MMDadoda
 11/6/2018 5:58:44 PM



#94
 Hexachlorobutadiene
 Concen: 19.994 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN052181.D
 Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.5	33.1	99.3
227	65.7	32.6	97.8





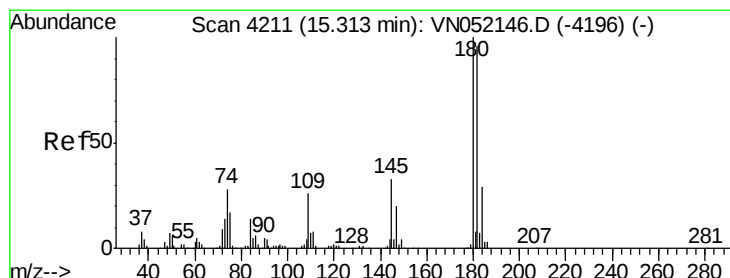
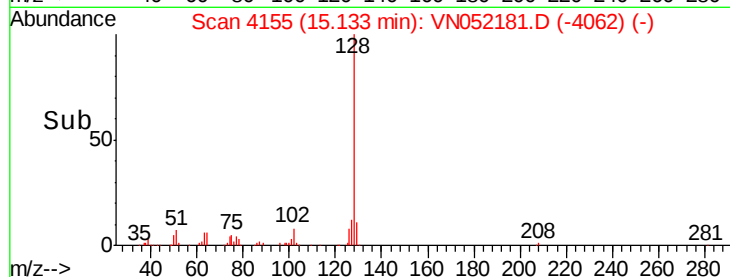
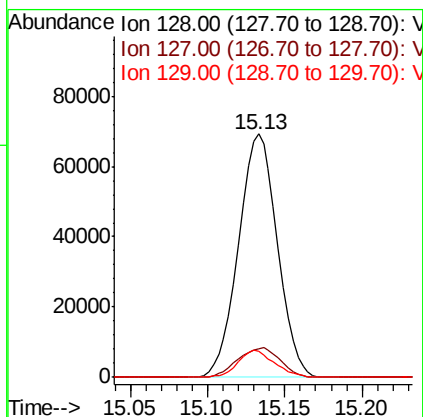
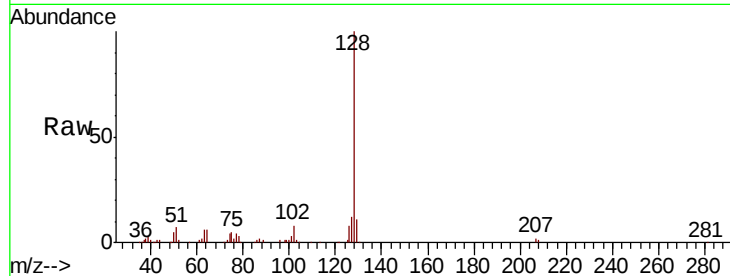
#95
Naphthalene
Concen: 16.902 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Instrument :
MSVOA_N
ClientSampleId :
VN1106WBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.4	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/6/2018 5:58:44 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.184 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN052181.D
Acq: 6 Nov 2018 10:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	47.2	141.6
145	33.1	16.6	49.7

