

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082218\
 Data File : VN050813.D
 Acq On : 22 Aug 2018 12:34
 Operator : MD\SY
 Sample : VN0822WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Manual Integrations
 APPROVED

MMDadoda
 8/23/2018 12:26:40 PM

Quant Time: Aug 23 01:22:13 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	622934	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	894376	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	808729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	384924	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	385896	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
35) Dibromofluoromethane	7.59	113	363006	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	
50) Toluene-d8	10.09	98	1367600	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.40	95	428373	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	187466	22.49	ug/l	100
3) Chloromethane	2.06	50	203914	19.83	ug/l	99
4) Vinyl Chloride	2.18	62	201008	20.64	ug/l	99
5) Bromomethane	2.56	94	113449	19.85	ug/l	98
6) Chloroethane	2.70	64	114344	20.32	ug/l	99
7) Trichlorofluoromethane	3.01	101	257282	20.63	ug/l	98
8) Diethyl Ether	3.41	74	85468	20.15	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	160649	20.62	ug/l	99
10) Methyl Iodide	3.95	142	111992	20.64	ug/l	98
11) Tert butyl alcohol	4.80	59	50704	106.18	ug/l #	89
12) 1,1-Dichloroethene	3.74	96	143228	20.47	ug/l	98
13) Acrolein	3.61	56	26089	104.77	ug/l	99
14) Allyl chloride	4.32	41	215297	19.75	ug/l	97
15) Acrylonitrile	4.99	53	260857	107.49	ug/l	97
16) Acetone	3.82	43	181656	98.00	ug/l	99
17) Carbon Disulfide	4.05	76	447271	19.07	ug/l	99
18) Methyl Acetate	4.33	43	144262	20.37	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	369886	21.02	ug/l	99
20) Methylene Chloride	4.55	84	165361	19.56	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	152039	20.09	ug/l	99
22) Diisopropyl ether	5.95	45	468375	21.56	ug/l	95
23) Vinyl Acetate	5.90	43	1478999	105.70	ug/l	99
24) 1,1-Dichloroethane	5.85	63	283354	20.31	ug/l	99
25) 2-Butanone	6.84	43	278336	92.10	ug/l	99
26) 2,2-Dichloropropane	6.83	77	223206	19.91	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	166539	20.41	ug/l	100
28) Bromochloromethane	7.20	49	123301	20.80	ug/l	99
29) Tetrahydrofuran	7.21	42	188737	108.92	ug/l	99
30) Chloroform	7.37	83	283543	20.53	ug/l	99
31) Cyclohexane	7.66	56	245599	19.66	ug/l	92
32) 1,1,1-Trichloroethane	7.57	97	240913	20.31	ug/l	100
36) 1,1-Dichloropropene	7.80	75	211168	20.01	ug/l	99
37) Ethyl Acetate	6.93	43	126761	20.91	ug/l	99
38) Carbon Tetrachloride	7.78	117	214971	20.15	ug/l	100

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Manual Integrations
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MMDadoda
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Quant Time: Aug 23 01:22:13 2018
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 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	222158	19.46	ug/l	99
40) Benzene	8.04	78	658002	20.68	ug/l	99
41) Methacrylonitrile	7.18	41	62245	18.97	ug/l	94
42) 1,2-Dichloroethane	8.13	62	198616	20.87	ug/l	100
43) Isopropyl Acetate	8.17	43	225355	21.62	ug/l #	90
44) Trichloroethene	8.84	130	169335	20.17	ug/l	99
45) 1,2-Dichloropropane	9.12	63	172188	20.59	ug/l	100
46) Dibromomethane	9.21	93	101778	20.71	ug/l	99
47) Bromodichloromethane	9.40	83	211599	20.56	ug/l	100
48) Methyl methacrylate	9.20	41	113203	21.31	ug/l	99
49) 1,4-Dioxane	9.20	88	31765	438.62	ug/l	98
51) 4-Methyl-2-Pentanone	9.99	43	642229	103.24	ug/l	100
52) Toluene	10.16	92	400893	21.26	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	202757	19.79	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	240489	20.50	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	144305	20.62	ug/l	98
56) Ethyl methacrylate	10.43	69	164795	19.60	ug/l	98
57) 1,3-Dichloropropane	10.71	76	241029	20.87	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	359209	98.24	ug/l	99
59) 2-Hexanone	10.75	43	404372	97.65	ug/l	99
60) Dibromochloromethane	10.90	129	161291	20.59	ug/l	100
61) 1,2-Dibromoethane	11.01	107	140951	20.83	ug/l	100
64) Tetrachloroethene	10.63	164	154804	20.15	ug/l	99
65) Chlorobenzene	11.43	112	427198	20.21	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	160364	20.73	ug/l	99
67) Ethyl Benzene	11.51	91	694254	20.20	ug/l	100
68) m/p-Xylenes	11.62	106	547184	41.95	ug/l	99
69) o-Xylene	11.95	106	256830	20.48	ug/l	99
70) Styrene	11.97	104	410401	19.37	ug/l	99
71) Bromoform	12.13	173	110375	20.75	ug/l #	100
73) Isopropylbenzene	12.25	105	681647	21.39	ug/l	100
74) N-amyl acetate	12.07	43	170175	21.25	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	180226	22.83	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	144018m	21.36	ug/l	
77) Bromobenzene	12.53	156	176401	20.36	ug/l	99
78) n-propylbenzene	12.59	91	770128	21.63	ug/l	100
79) 2-Chlorotoluene	12.68	91	468828	21.14	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	562883	21.89	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	40602	20.36	ug/l	94
82) 4-Chlorotoluene	12.77	91	470155	21.47	ug/l	99
83) tert-Butylbenzene	12.99	119	471049	21.15	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	570652	22.06	ug/l	100
85) sec-Butylbenzene	13.17	105	626278	21.46	ug/l	100
86) p-Isopropyltoluene	13.29	119	529833	21.31	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	297622	20.25	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	285803	19.76	ug/l	99
89) n-Butylbenzene	13.62	91	388482	19.53	ug/l	99
90) Hexachloroethane	13.88	117	98731	20.94	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	291554	20.56	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	24215	21.15	ug/l	98

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ClientSampleId :
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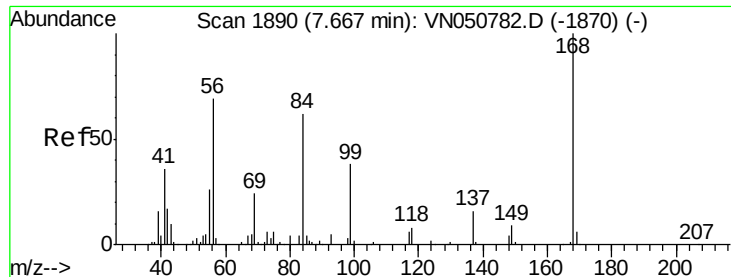
Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:26:40 PM

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	115989	18.52	ug/l	99
94) Hexachlorobutadiene	15.01	225	88499	20.39	ug/l	98
95) Naphthalene	15.13	128	224148	18.40	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	118209	19.26	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampled :

VN0822WBS01

Tot Ion:168 Resp: 622934

Ion Ratio Lower Upper

168 100

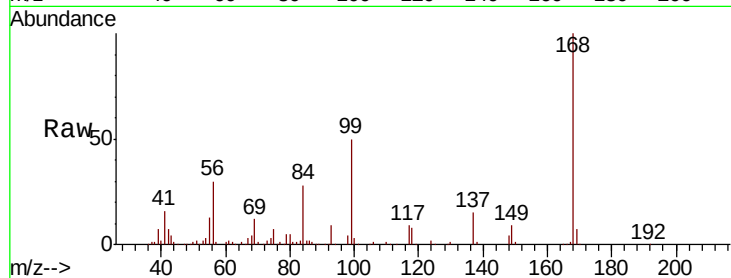
99 49.9 39.6 59.4

Manual Integrations

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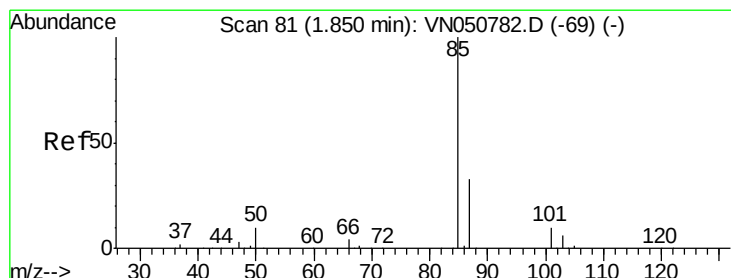
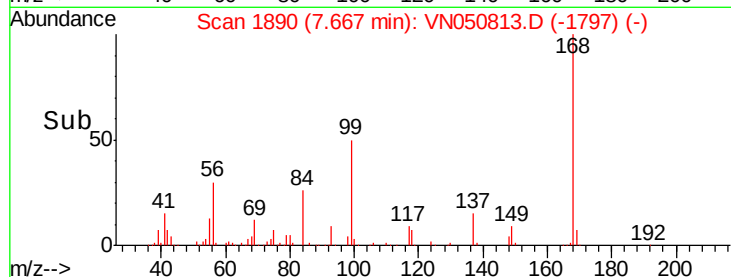
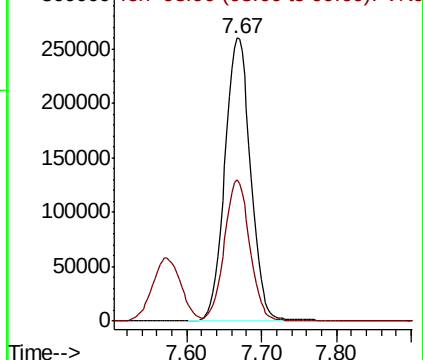
MMDadoda

8/23/2018 12:26:40 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 22.49 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050813.D

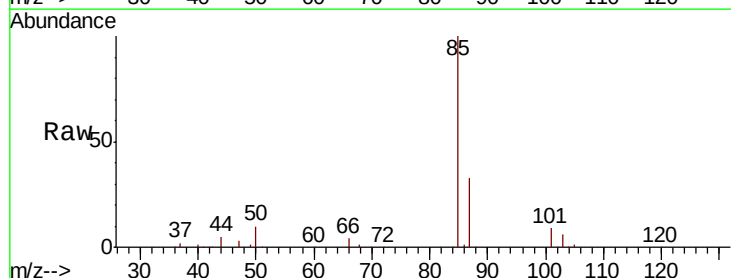
Acq: 22 Aug 2018 12:34

Tgt Ion: 85 Resp: 187466

Ion Ratio Lower Upper

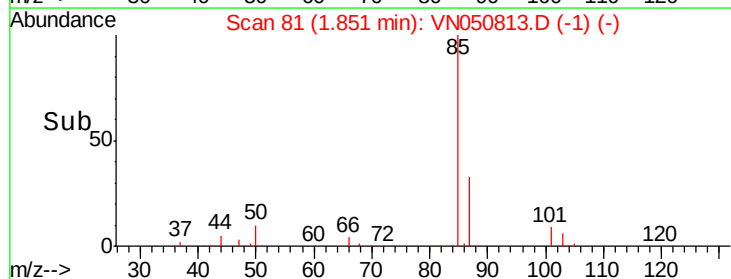
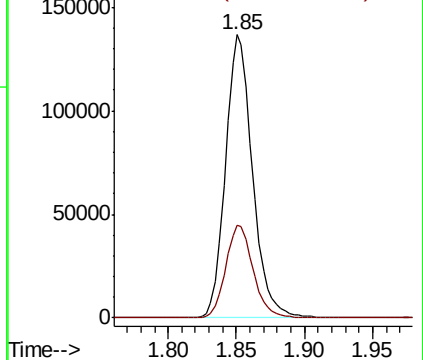
85 100

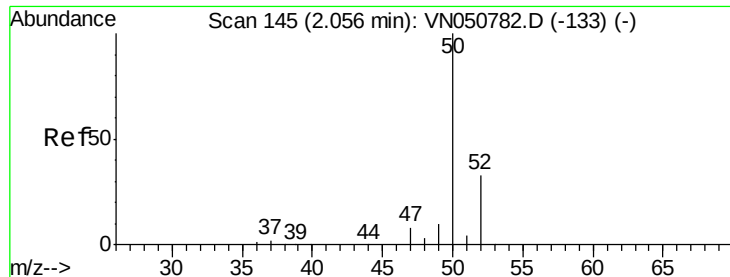
87 32.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 19.83 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampled :

VN0822WBS01

Tot Ion: 50 Resp: 203914

Ion Ratio Lower Upper

50 100

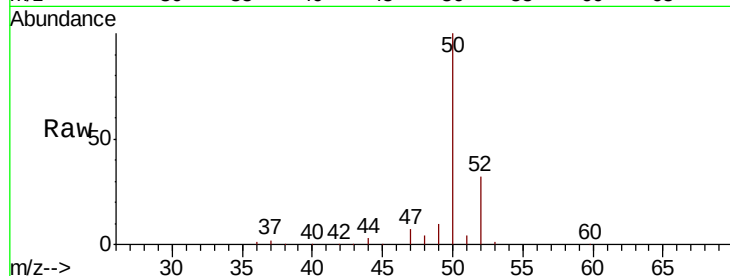
52 32.5 26.3 39.5

Manual Integrations

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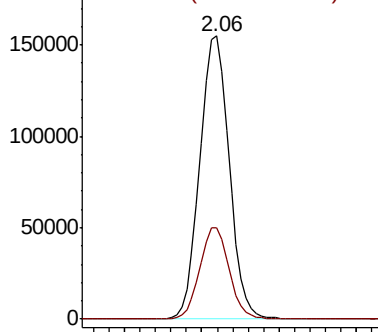
MMDadoda

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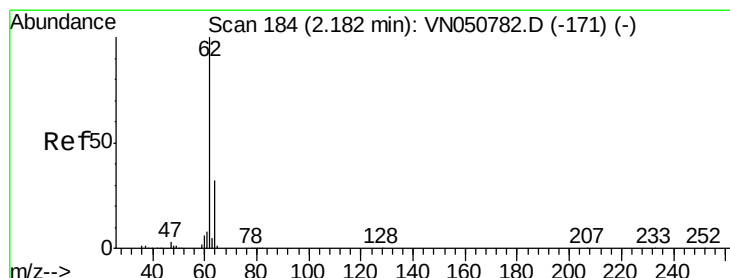
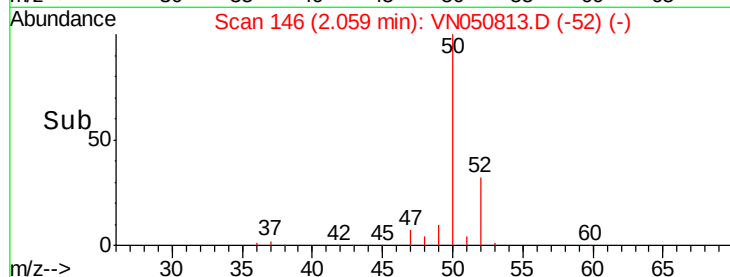


Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



Time-->



#4

Vinyl Chloride

Concen: 20.64 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050813.D

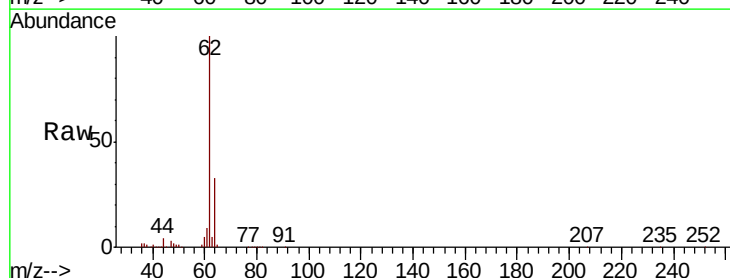
Acq: 22 Aug 2018 12:34

Tgt Ion: 62 Resp: 201008

Ion Ratio Lower Upper

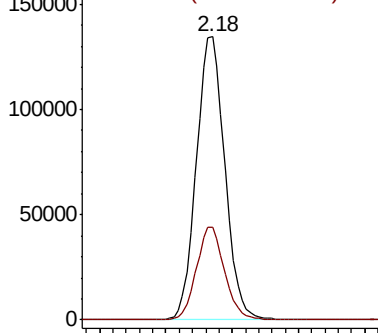
62 100

64 32.5 25.4 38.2

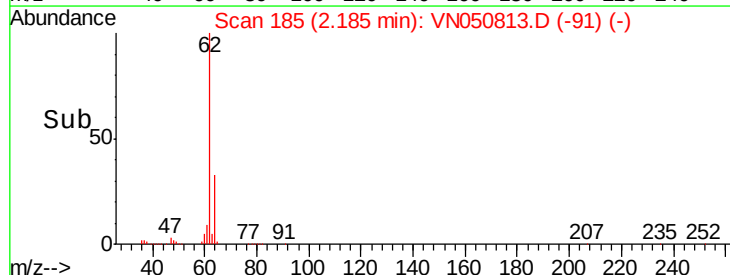


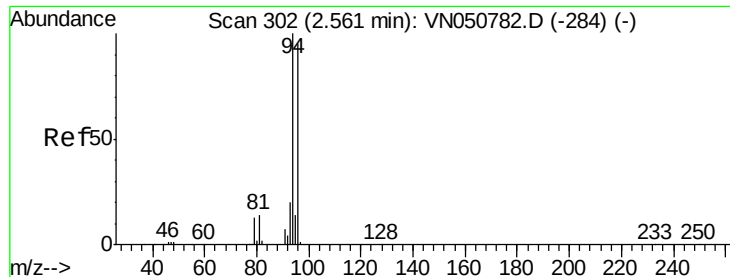
Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



Time-->





#5

Bromomethane

Concen: 19.85 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion: 94 Resp: 113449

Ion Ratio Lower Upper

94 100

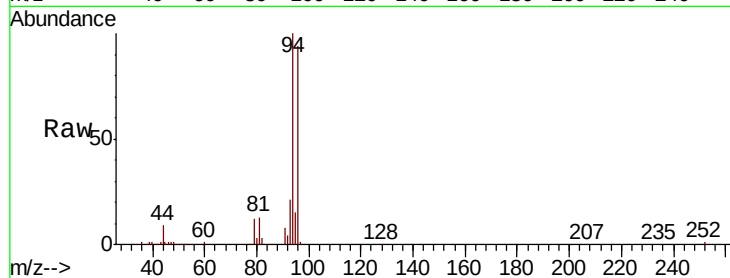
96 93.6 76.2 114.2

Manual Integrations

APPROVED

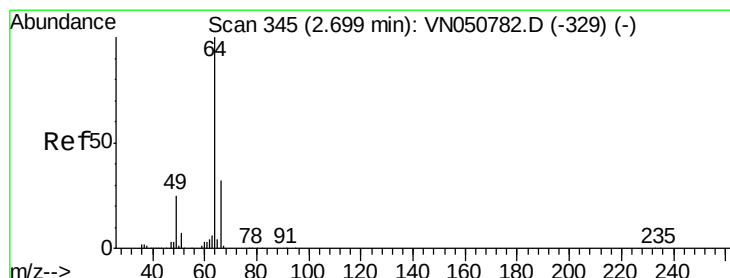
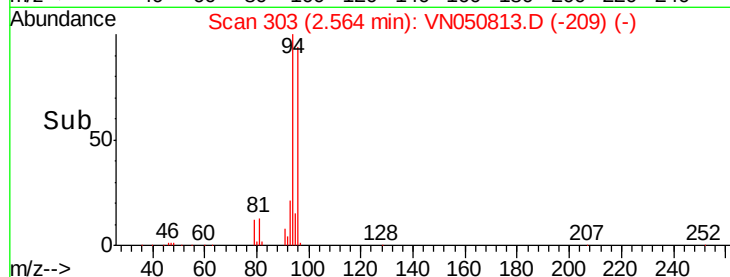
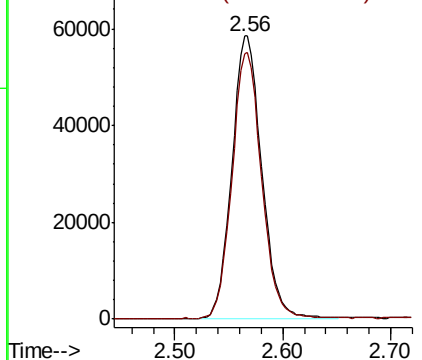
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 20.32 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050813.D

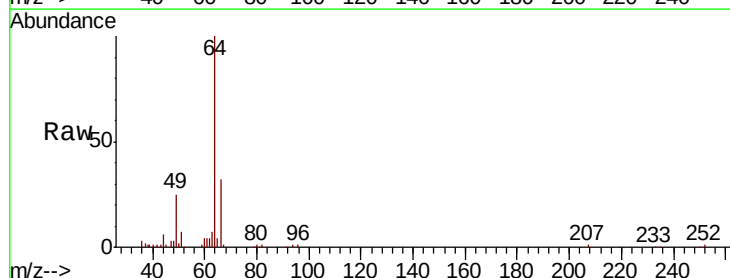
Acq: 22 Aug 2018 12:34

Tgt Ion: 64 Resp: 114344

Ion Ratio Lower Upper

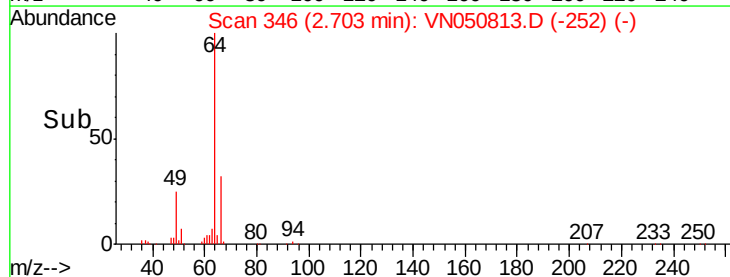
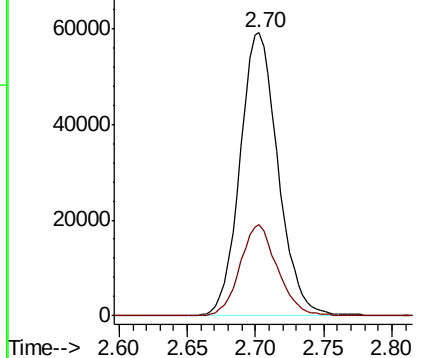
64 100

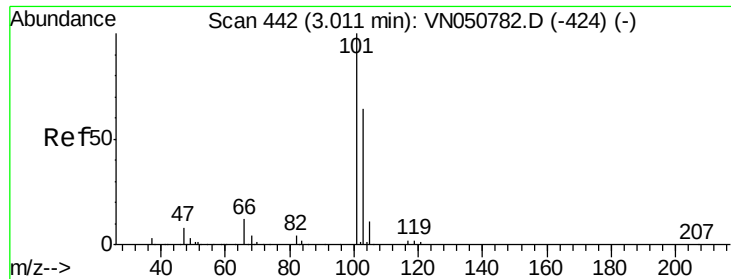
66 32.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

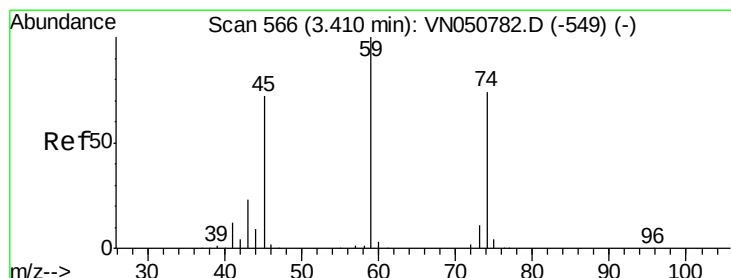
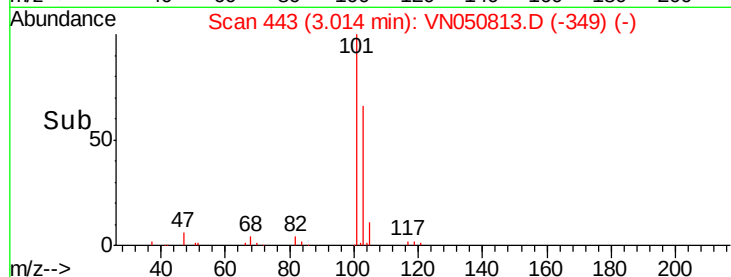
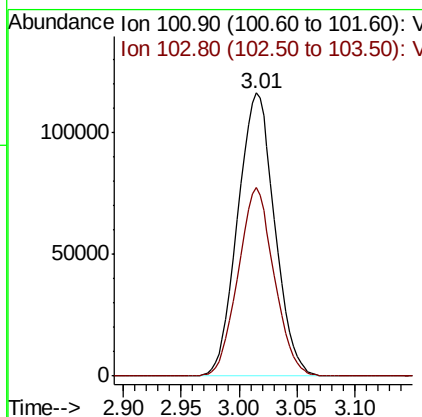
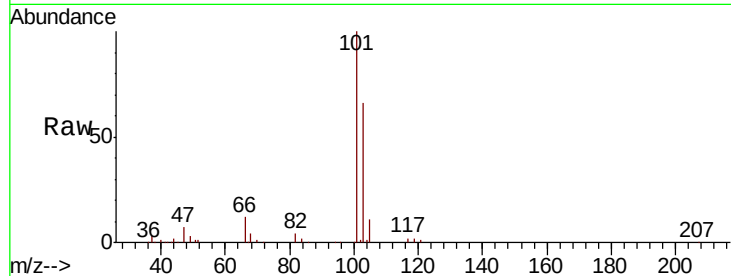
Trichlorofluoromethane
 Concen: 20.63 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.6	77.4

Manual Integrations
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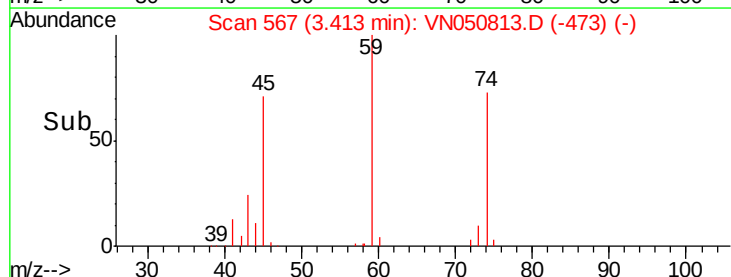
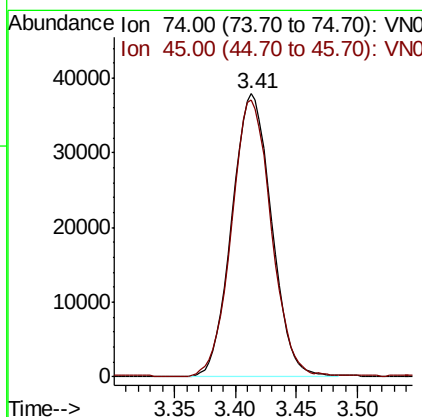
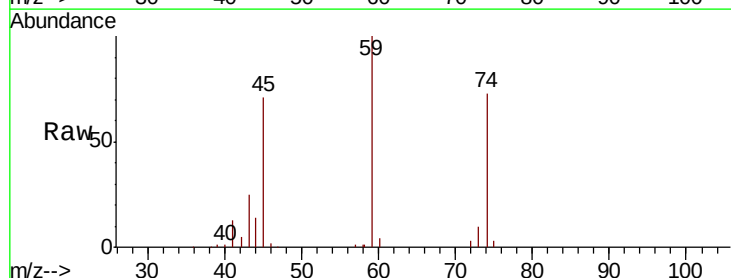
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 8/23/2018 12:26:40 PM

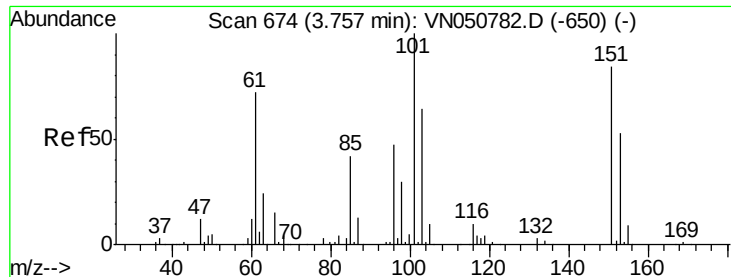


#8

Diethyl Ether
 Concen: 20.15 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	98.2	48.2	144.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.62 ug/l

RT: 3.76 min Scan# 674

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

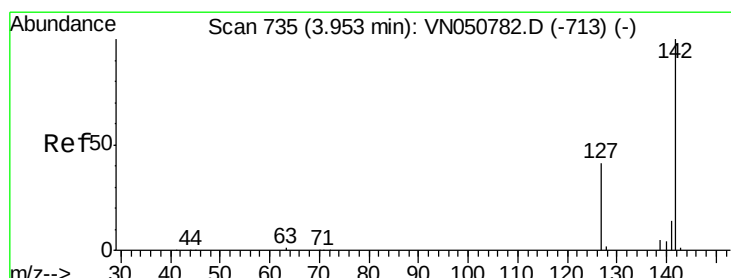
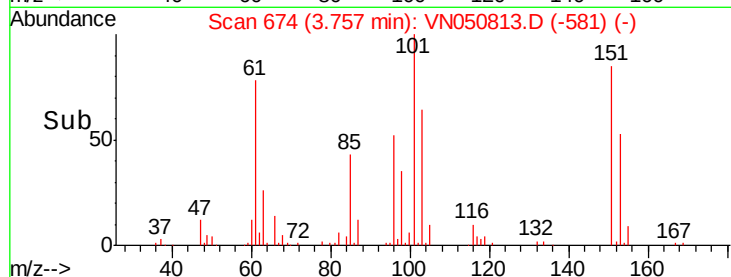
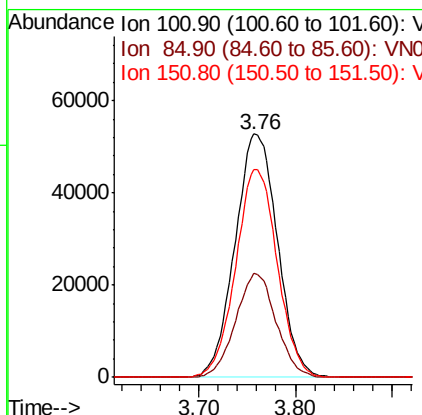
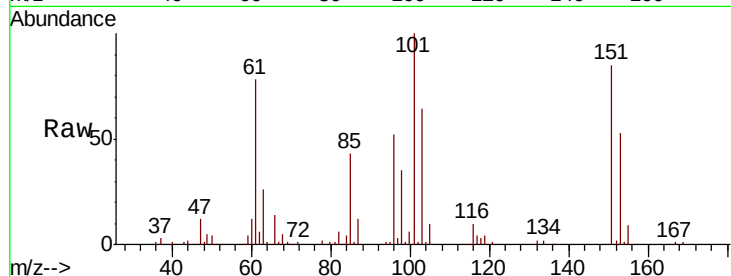
ClientSampleId :

VN0822WBS01

Tot Ion:	101	Resp:	160649
Ion Ratio	Lower	Upper	
101	100		
85	40.7	33.7	50.5
151	83.7	67.4	101.2

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#10

Methyl Iodide

Concen: 20.64 ug/l

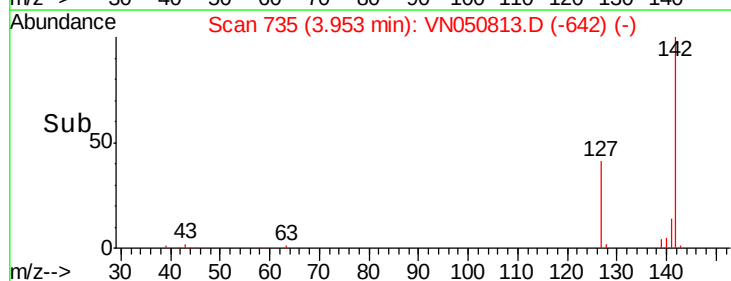
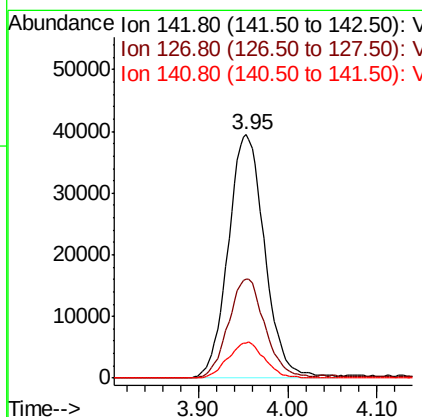
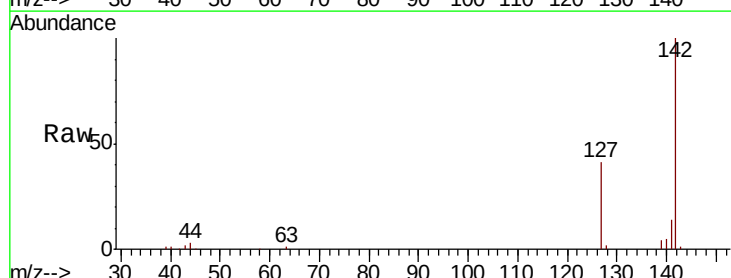
RT: 3.95 min Scan# 735

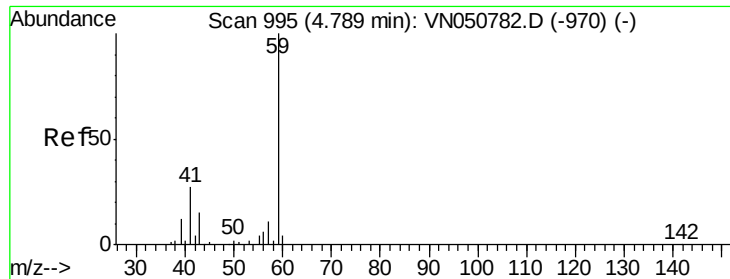
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	142	Resp:	111992
Ion Ratio	Lower	Upper	
142	100		
127	40.9	31.7	47.5
141	14.6	11.4	17.0





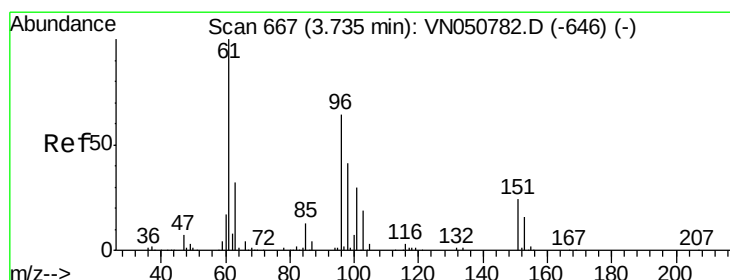
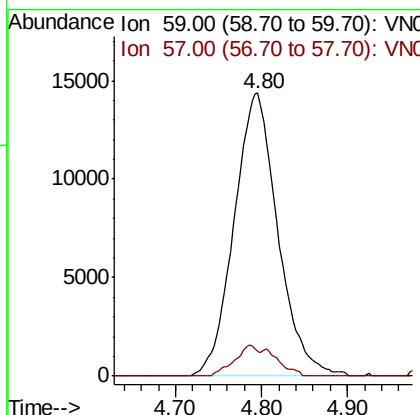
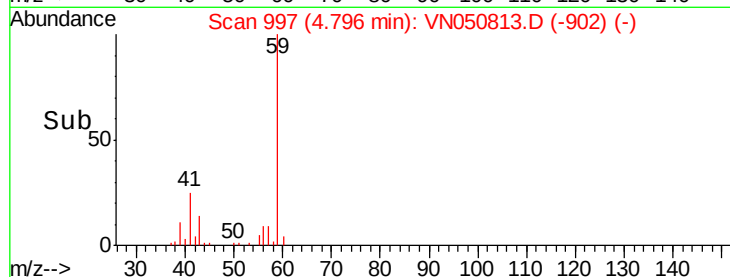
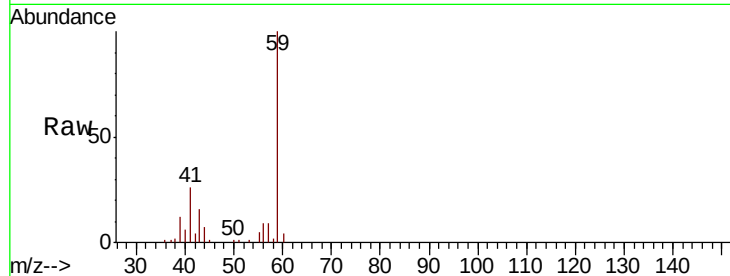
#11
Tert butyl alcohol
Concen: 106.18 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.01 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.1	8.3	12.5#

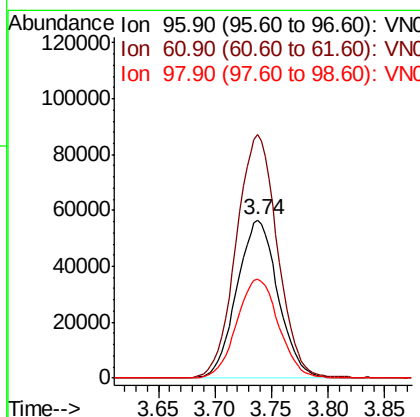
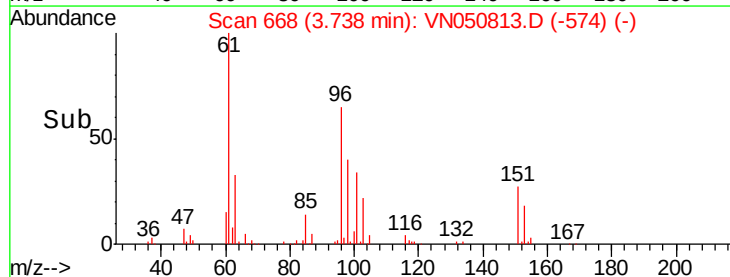
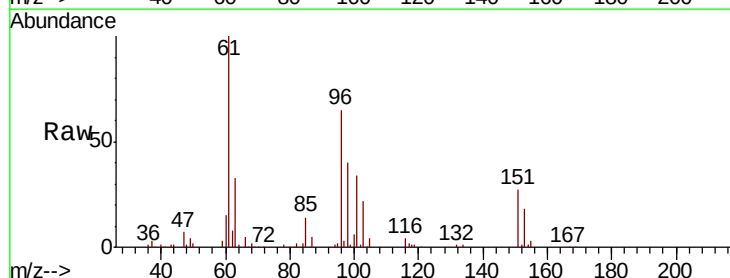
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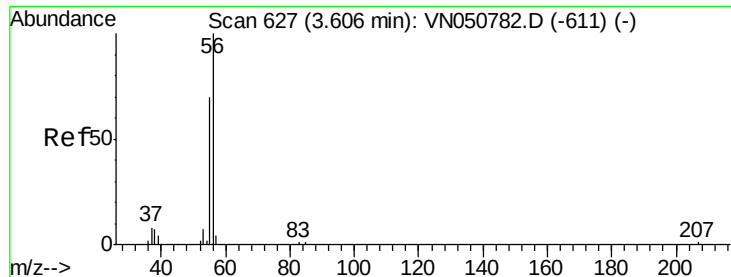
MMDadoda
8/23/2018 12:26:40 PM



#12
1,1-Dichloroethene
Concen: 20.47 ug/l
RT: 3.74 min Scan# 668
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
96	100		
61	153.4	124.9	187.3
98	62.1	51.1	76.7





#13

Acrolein

Concen: 104.77 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion: 56 Resp: 26089

Ion Ratio Lower Upper

56 100

55 72.6

57.7

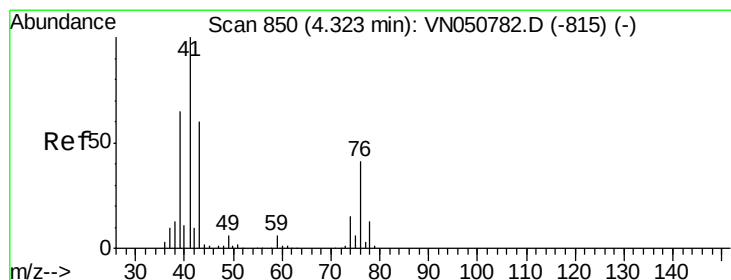
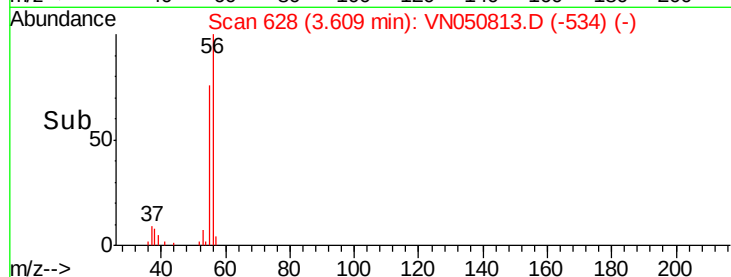
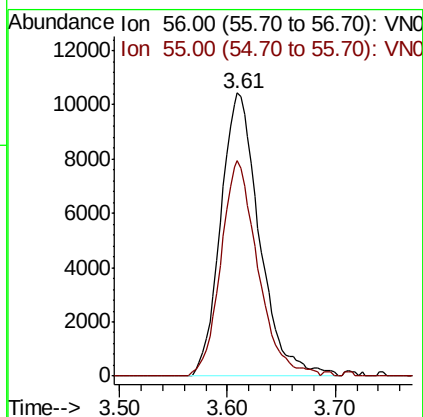
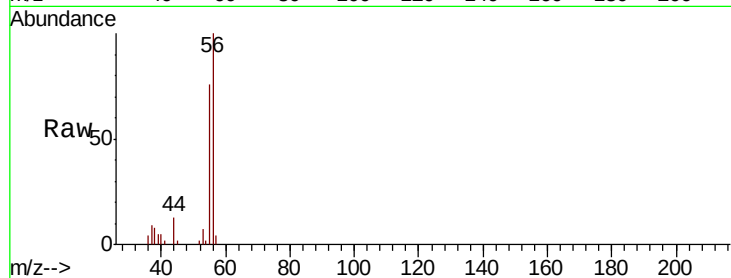
86.5

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#14

Allyl chloride

Concen: 19.75 ug/l

RT: 4.32 min Scan# 850

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion: 41 Resp: 215297

Ion Ratio Lower Upper

41 100

39 64.4

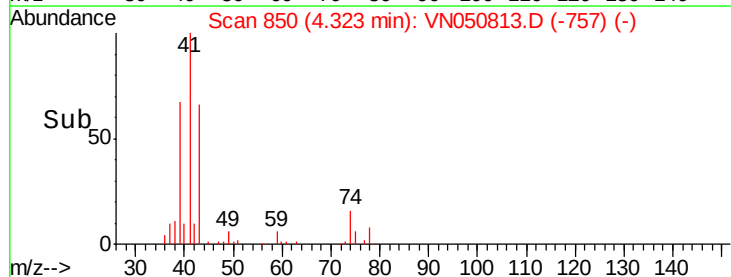
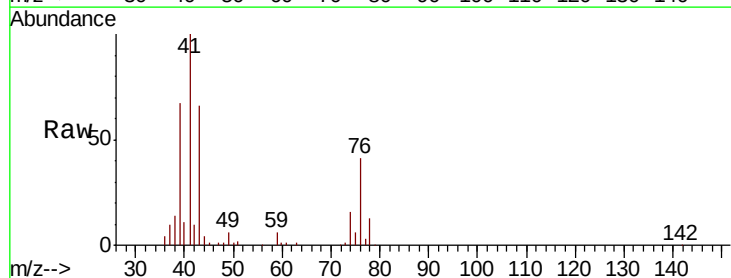
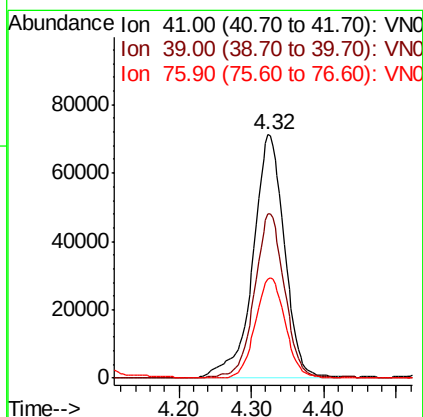
50.2

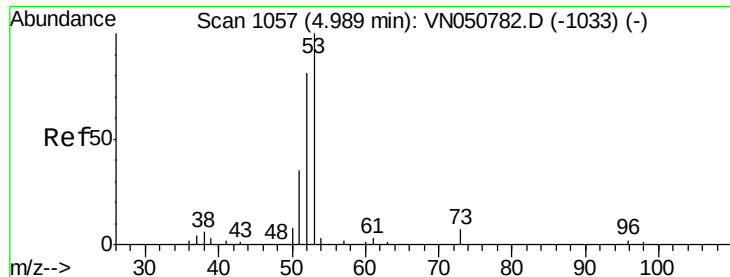
75.2

76 39.2

29.8

44.8





#15

Acrylonitrile

Concen: 107.49 ug/l

RT: 4.99 min Scan# 1058

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

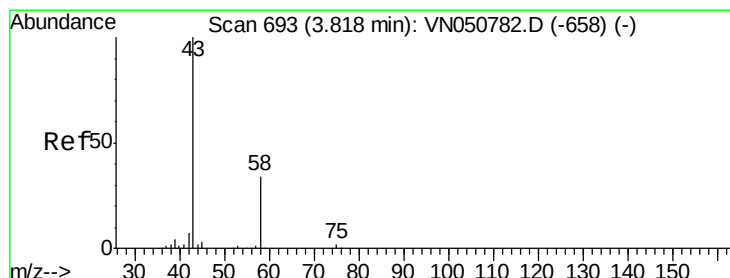
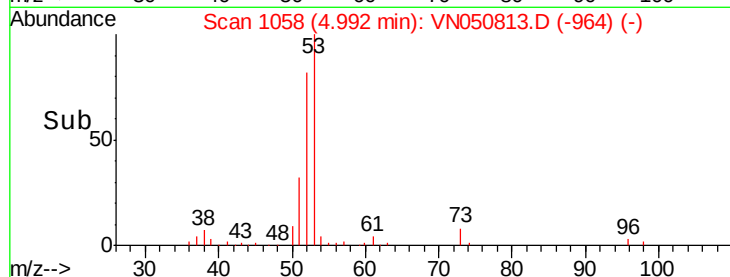
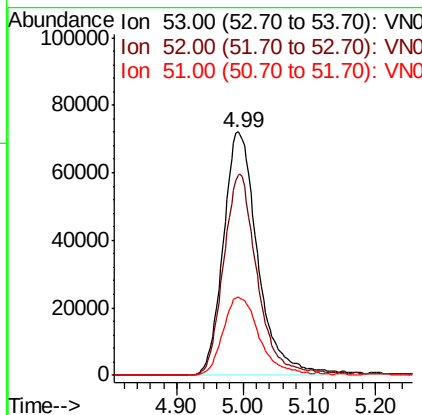
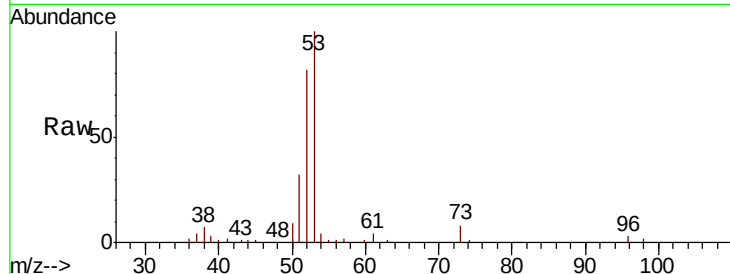
ClientSampleId :

VN0822WBS01

Tot Ion:	53	Resp:	260857
Ion Ratio	Lower	Upper	
53	100		
52	79.5	65.9	98.9
51	34.1	28.6	43.0

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#16

Acetone

Concen: 98.00 ug/l

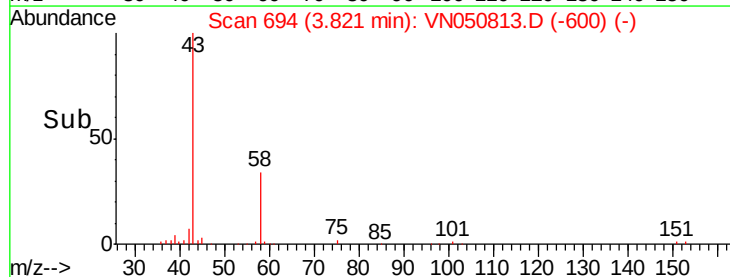
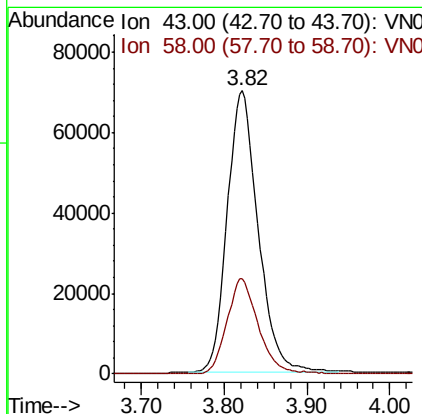
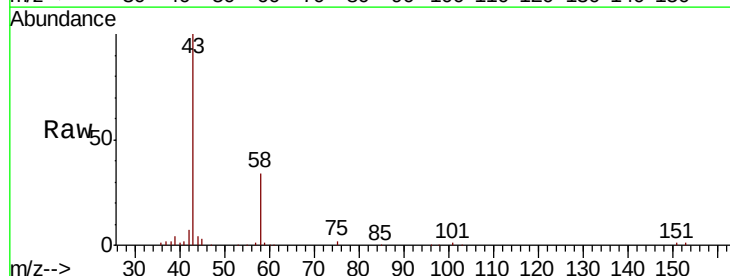
RT: 3.82 min Scan# 694

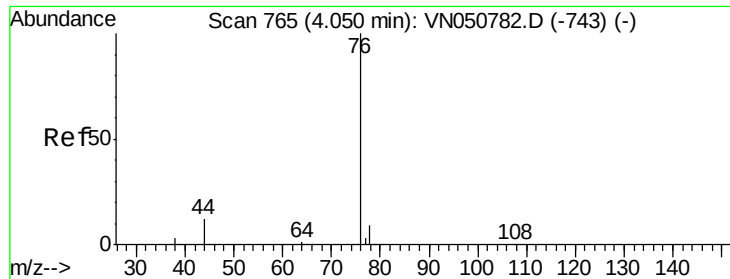
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	43	Resp:	181656
Ion Ratio	Lower	Upper	
43	100		
58	33.6	27.2	40.8





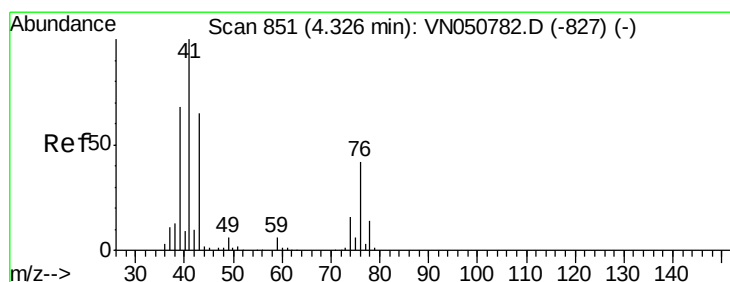
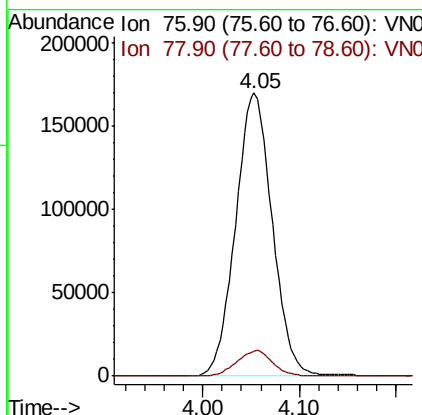
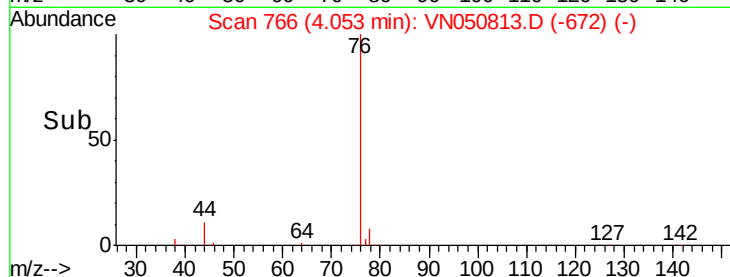
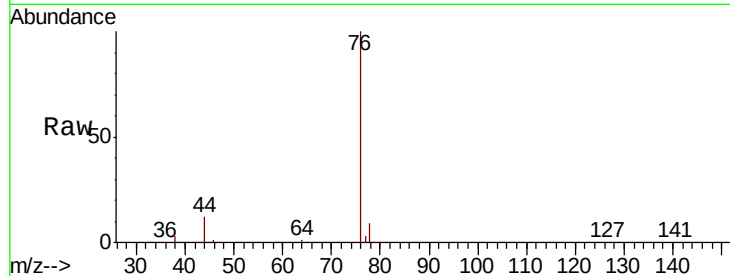
#17
Carbon Disulfide
Concen: 19.07 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

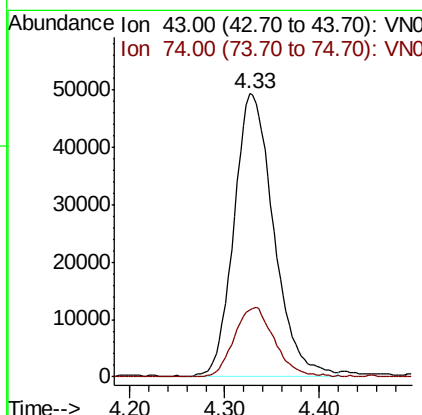
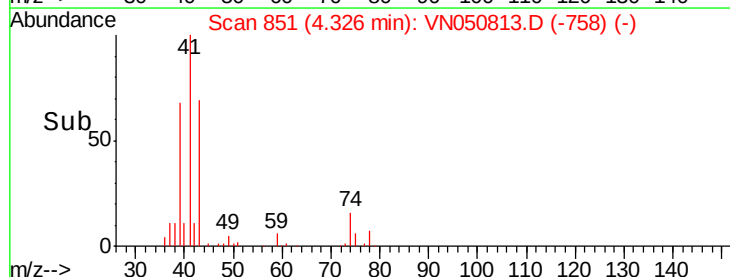
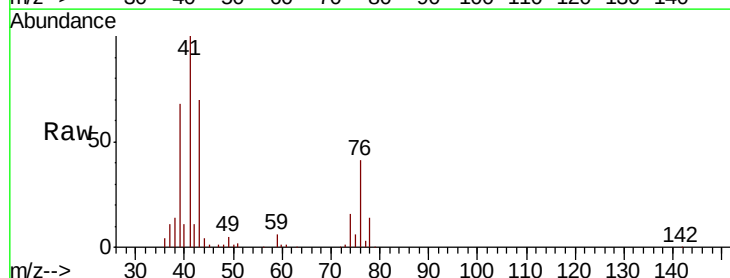
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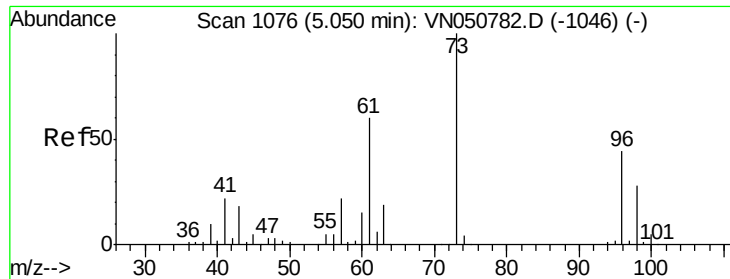
MMDadoda
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#18
Methyl Acetate
Concen: 20.37 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	19.8	29.8





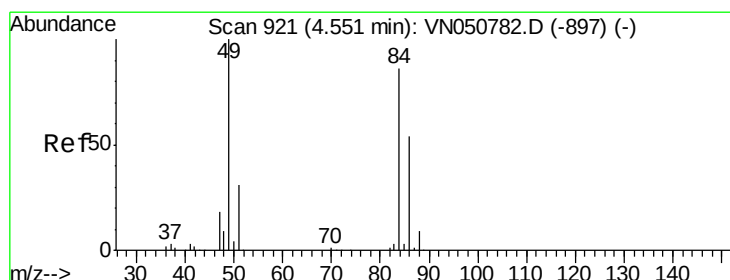
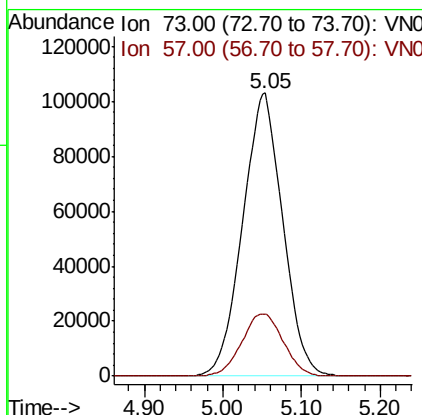
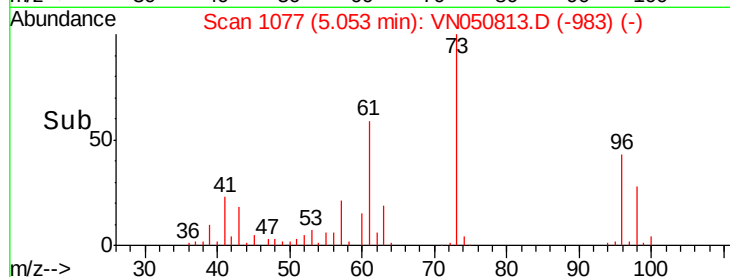
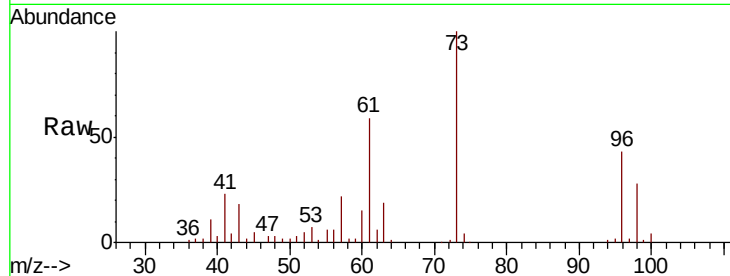
#19
Methyl tert-butyl Ether
Concen: 21.02 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampled :
VN0822WBS01

Tot Ion: 73 Resp: 369886
Ion Ratio Lower Upper
73 100
57 21.8 17.8 26.8

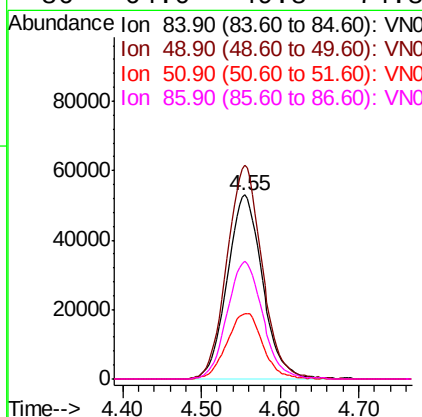
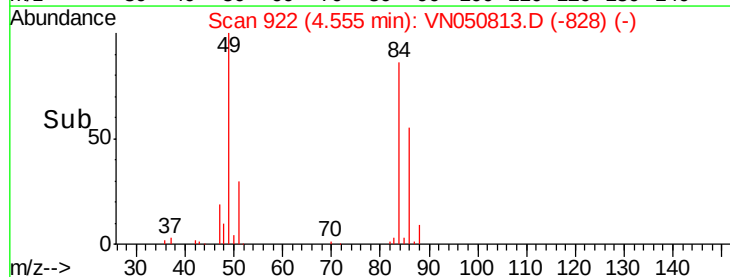
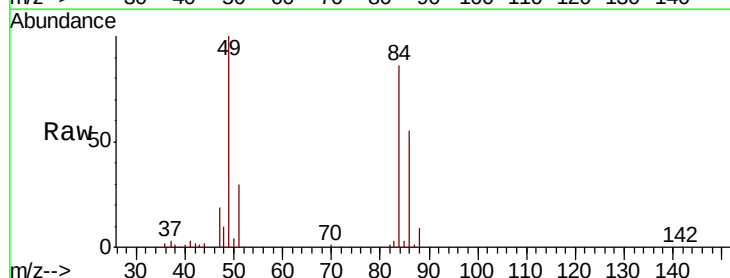
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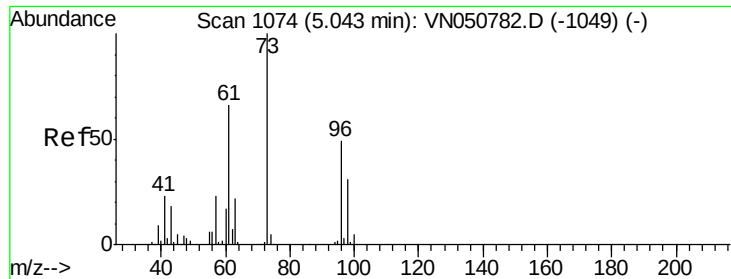
MMDadoda
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#20
Methylene Chloride
Concen: 19.56 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion: 84 Resp: 165361
Ion Ratio Lower Upper
84 100
49 116.2 93.2 139.8
51 35.2 29.0 43.6
86 64.0 49.8 74.8





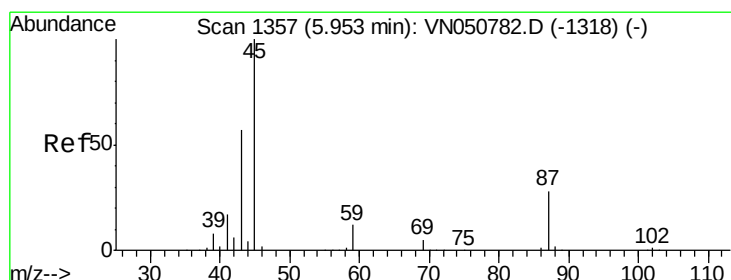
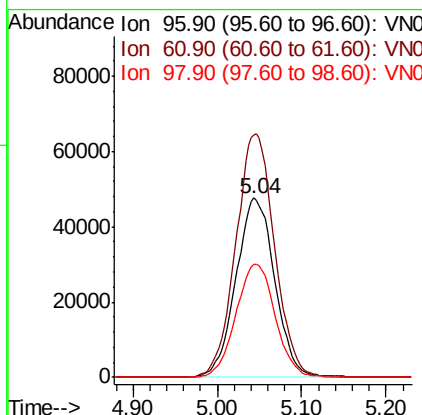
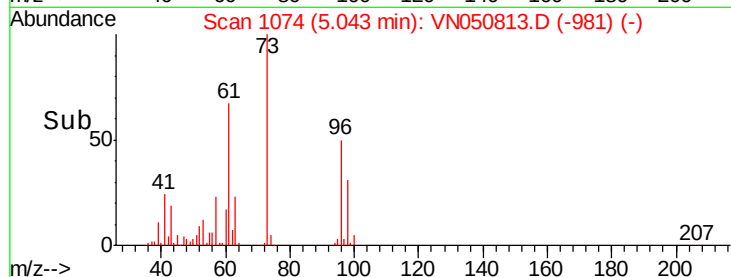
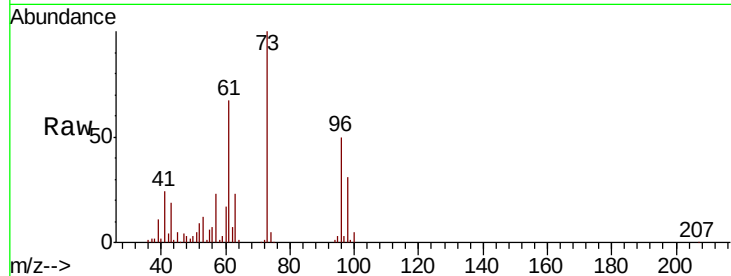
#21
trans-1,2-Dichloroethene
Concen: 20.09 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.2	107.4	161.0
98	62.8	50.7	76.1

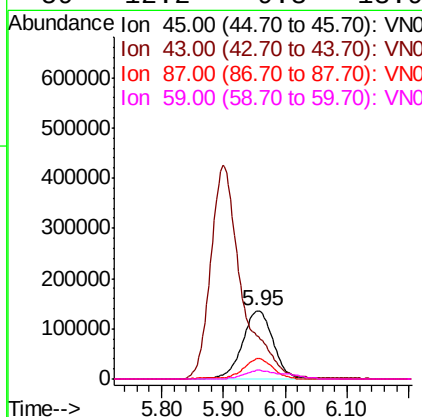
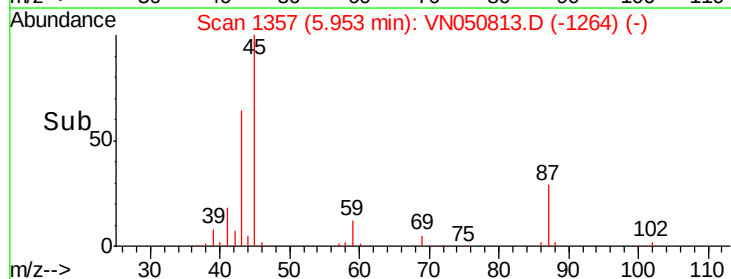
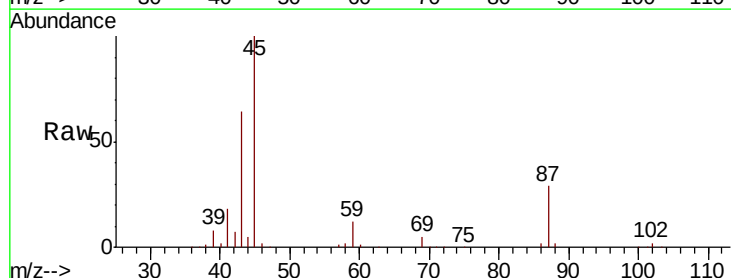
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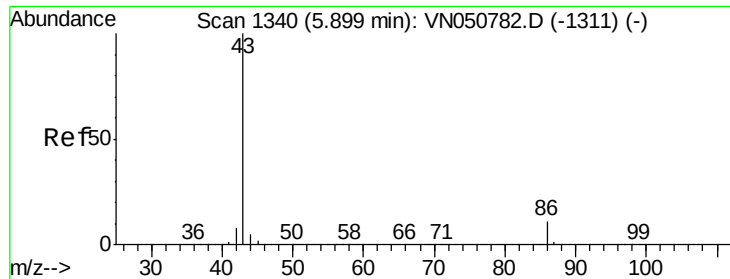
MMDadoda
8/23/2018 12:26:40 PM



#22
Diisopropyl ether
Concen: 21.56 ug/l
RT: 5.95 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
45	100		
43	63.0	45.9	68.9
87	29.5	22.7	34.1
59	12.2	9.3	13.9





#23

Vinyl Acetate

Concen: 105.70 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion: 43 Resp: 1478999

Ion Ratio Lower Upper

43 100

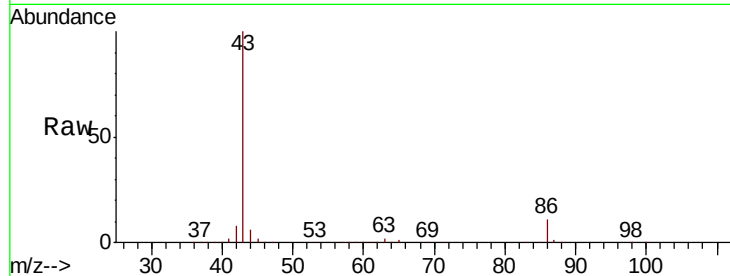
86 10.6 8.7 13.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

500000

400000

300000

200000

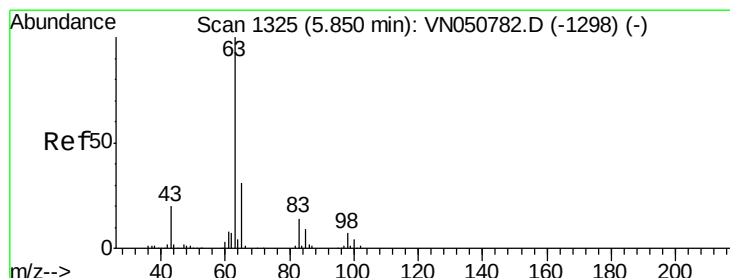
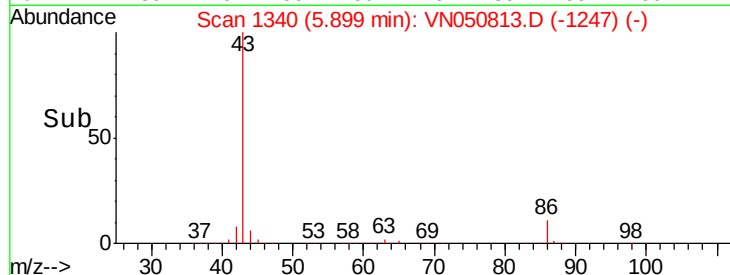
100000

0

5.80

6.00

Time-->



#24

1,1-Dichloroethane

Concen: 20.31 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

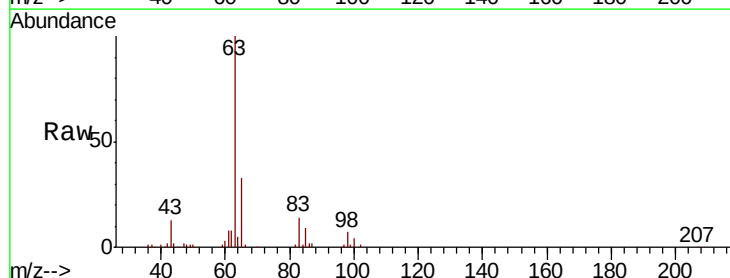
Tgt Ion: 63 Resp: 283354

Ion Ratio Lower Upper

63 100

98 6.9 3.3 9.8

100 4.4 2.1 6.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

120000

100000

80000

60000

40000

20000

0

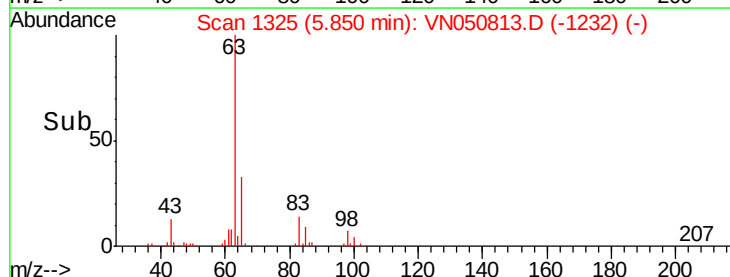
5.70

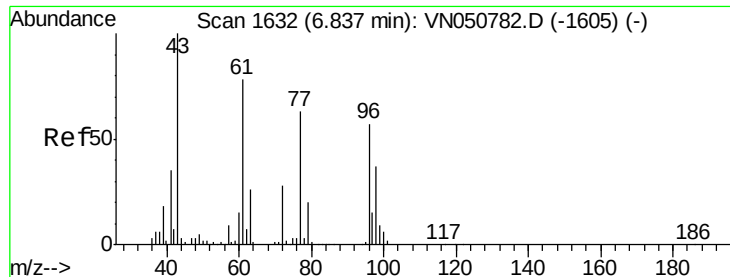
5.80

5.90

6.00

Time-->





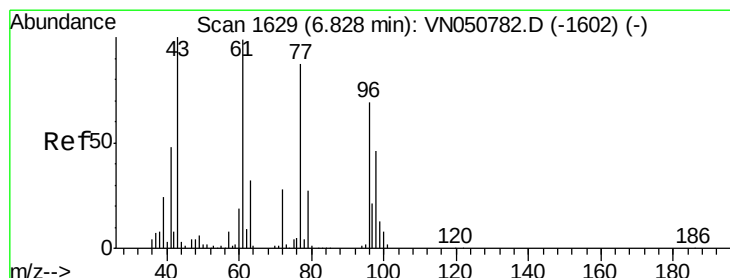
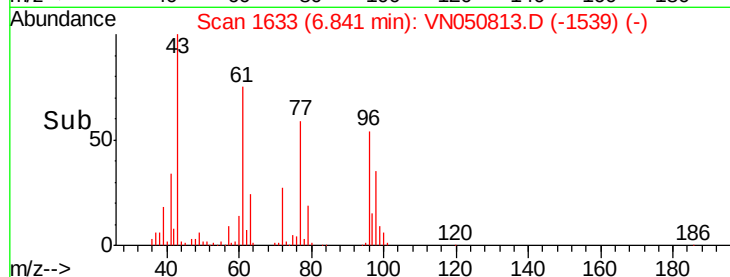
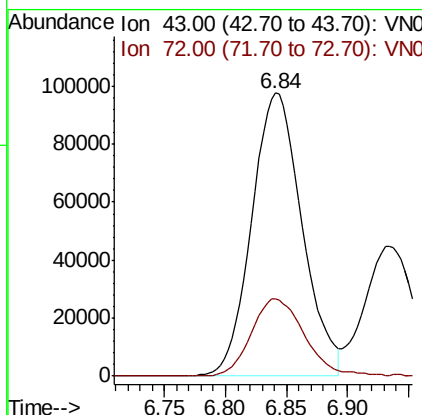
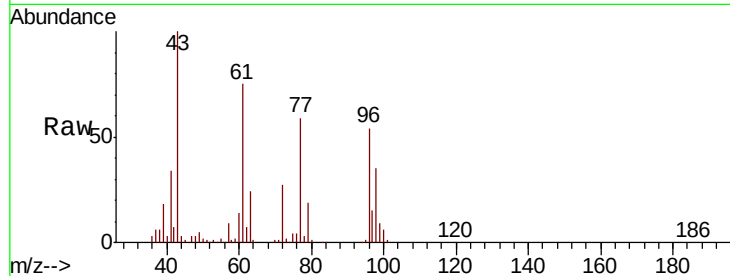
#25
 2-Butanone
 Concen: 92.10 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion: 43 Resp: 278336
 Ion Ratio Lower Upper
 43 100
 72 27.4 22.3 33.5

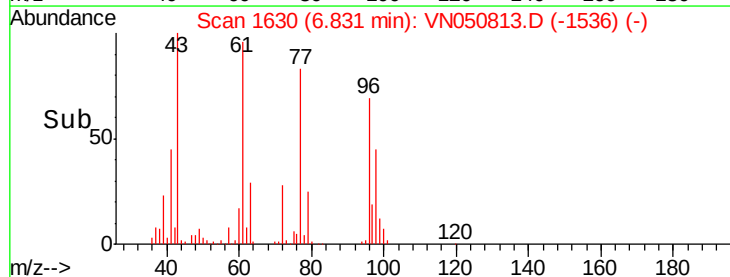
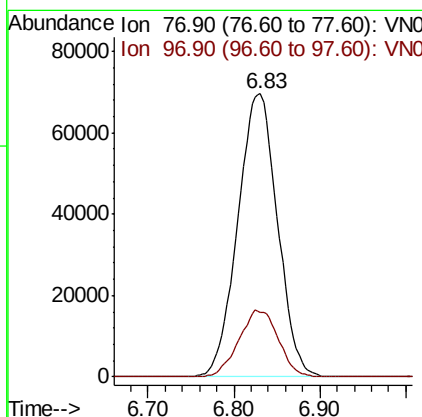
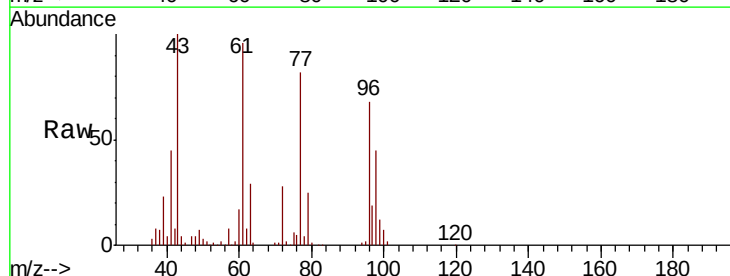
Manual Integrations
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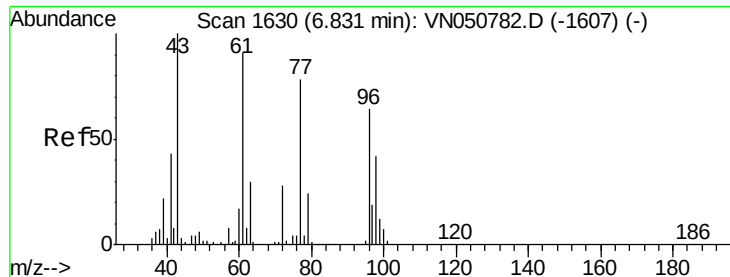
MMDadoda
 8/23/2018 12:26:40 PM



#26
 2,2-Dichloropropane
 Concen: 19.91 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion: 77 Resp: 223206
 Ion Ratio Lower Upper
 77 100
 97 23.5 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 20.41 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

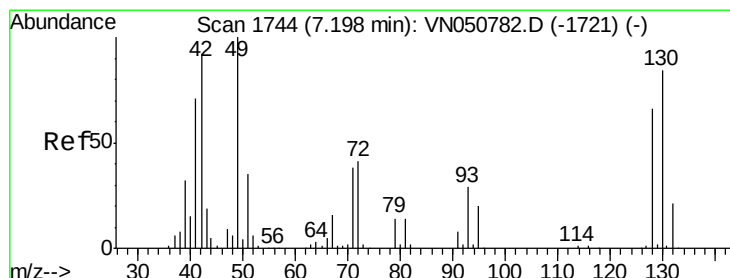
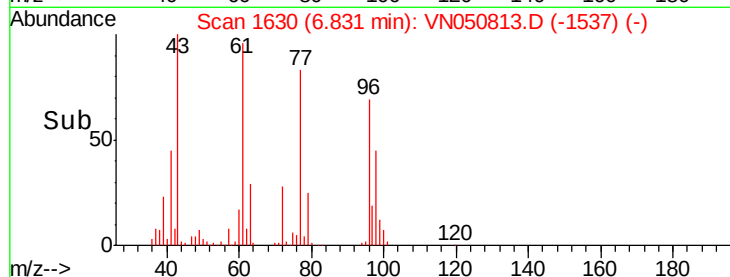
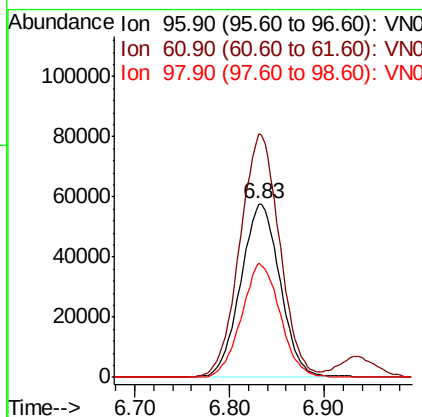
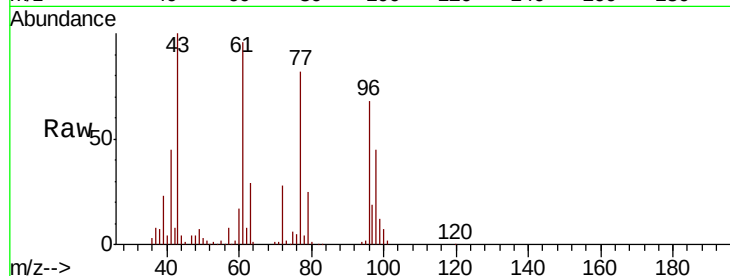
ClientSampleId :

VN0822WBS01

Tot Ion:	96	Resp:	166539
Ion	Ratio	Lower	Upper
96	100		
61	141.9	0.0	283.4
98	64.6	0.0	129.8

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8/23/2018 12:26:40 PM



#28

Bromochloromethane

Concen: 20.80 ug/l

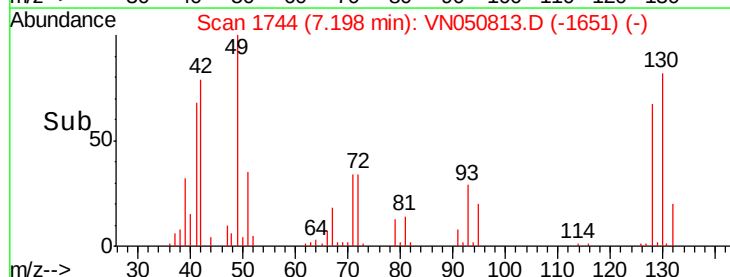
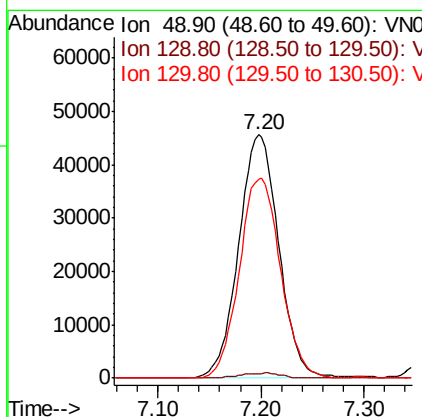
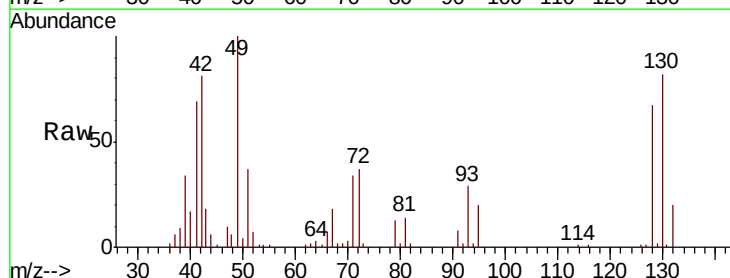
RT: 7.20 min Scan# 1744

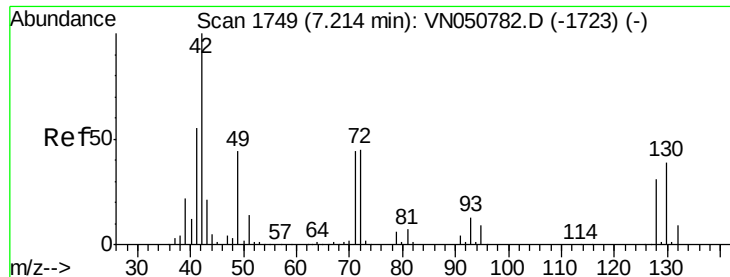
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	49	Resp:	123301
Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	4.2
130	84.5	67.1	100.7





#29

Tetrahydrofuran

Concen: 108.92 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampled :

VN0822WBS01

Tot Ion: 42 Resp: 188737

Ion Ratio Lower Upper

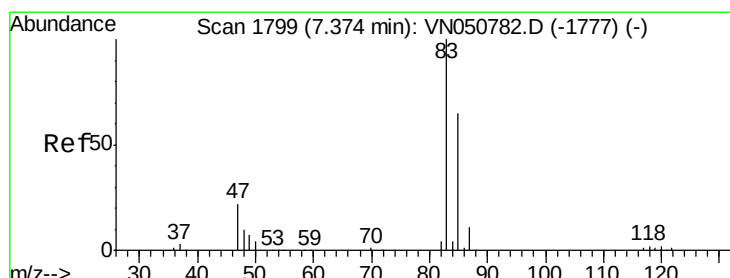
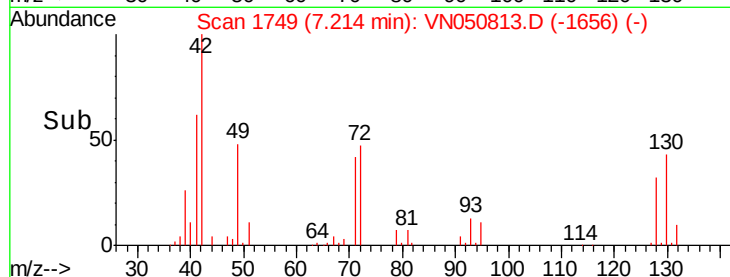
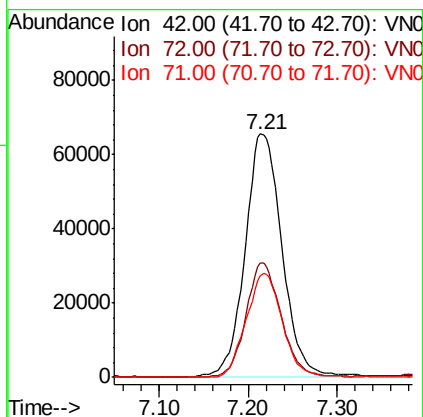
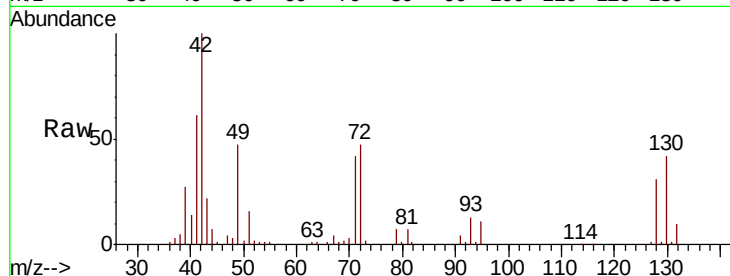
42 100

72 44.8 35.5 53.3

71 41.6 33.7 50.5

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#30

Chloroform

Concen: 20.53 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050813.D

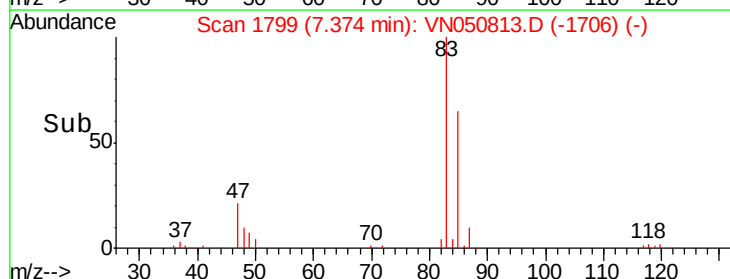
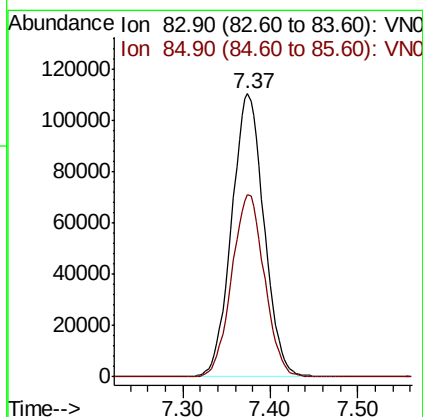
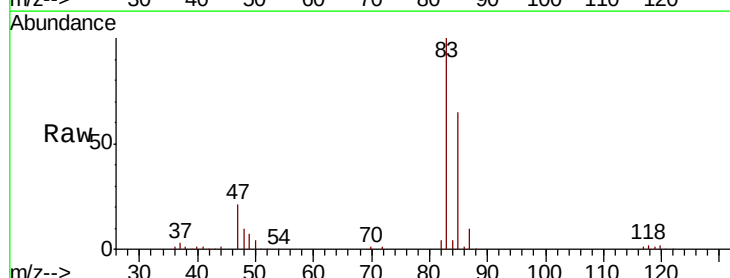
Acq: 22 Aug 2018 12:34

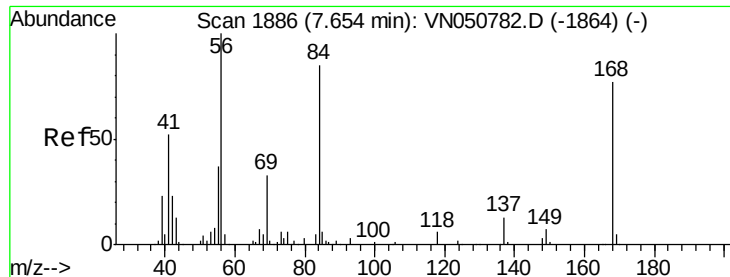
Tgt Ion: 83 Resp: 283543

Ion Ratio Lower Upper

83 100

85 64.6 52.2 78.4





#31

Cyclohexane

Concen: 19.66 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion: 56 Resp: 245599

Ion Ratio Lower Upper

56 100

69 36.7 26.2 39.4

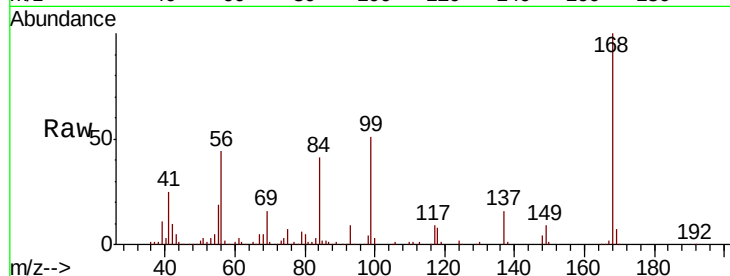
84 92.9 68.3 102.5

Manual Integrations

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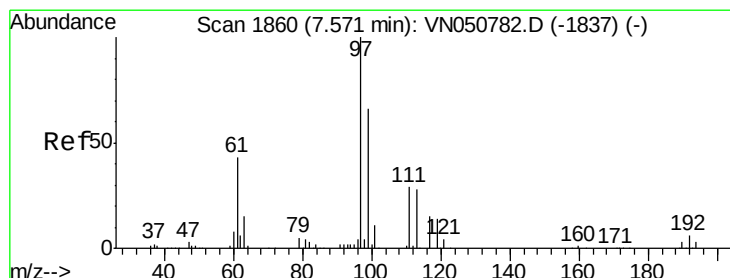
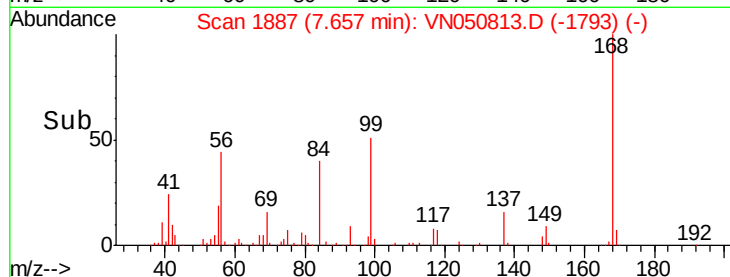
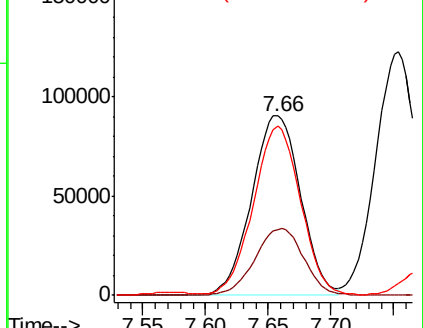
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Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 20.31 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

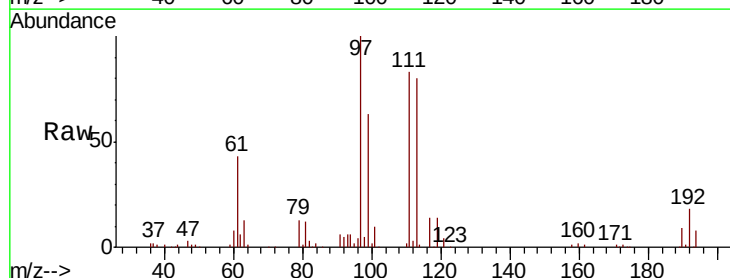
Tgt Ion: 97 Resp: 240913

Ion Ratio Lower Upper

97 100

99 64.5 51.8 77.6

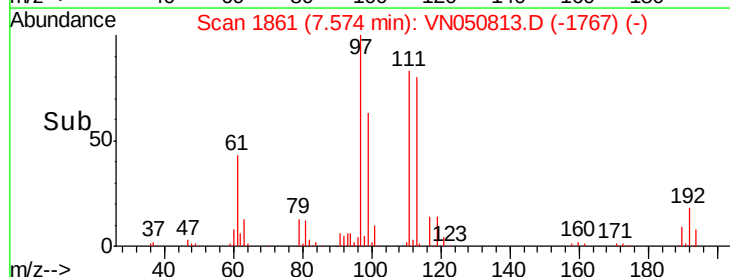
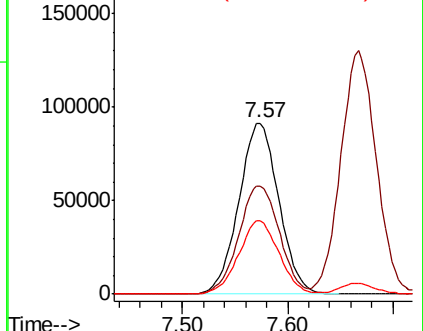
61 43.2 34.9 52.3

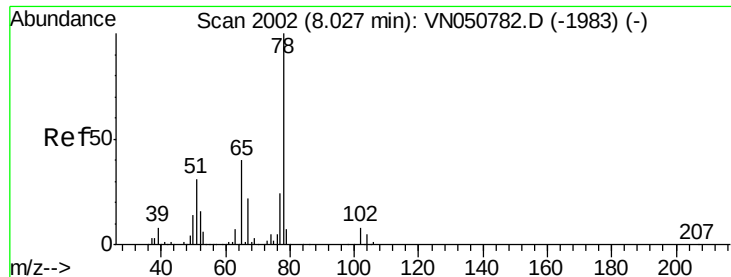


Abundance Ion 96.90 (96.60 to 97.60): VNC

Ion 98.90 (98.60 to 99.60): VNC

Ion 60.90 (60.60 to 61.60): VNC





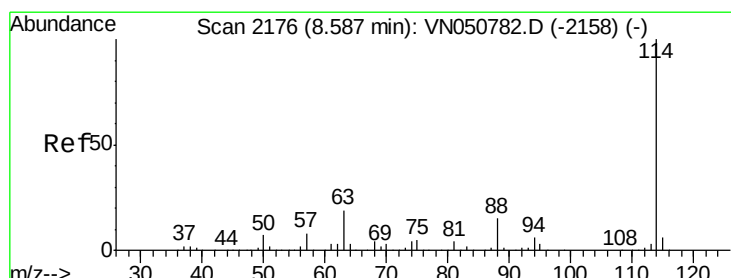
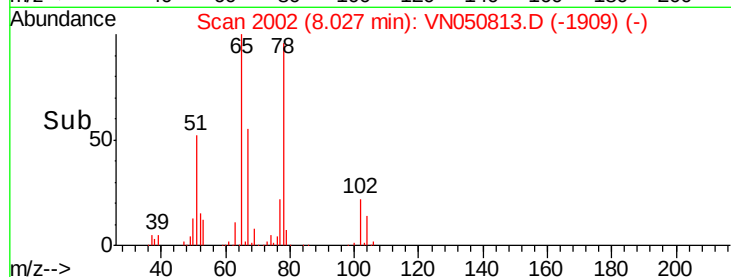
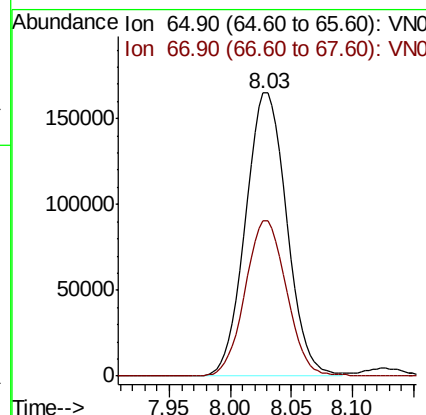
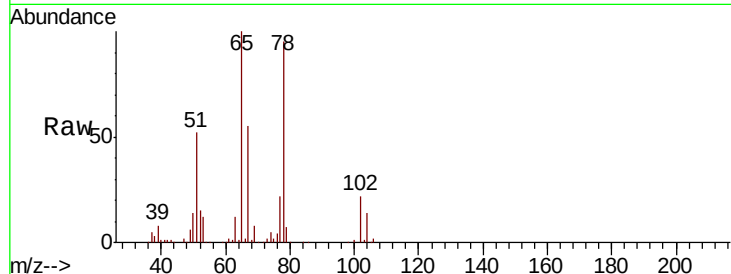
#33
 1,2-Dichloroethane-d4
 Concen: 51.46 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.1	0.0	110.4	

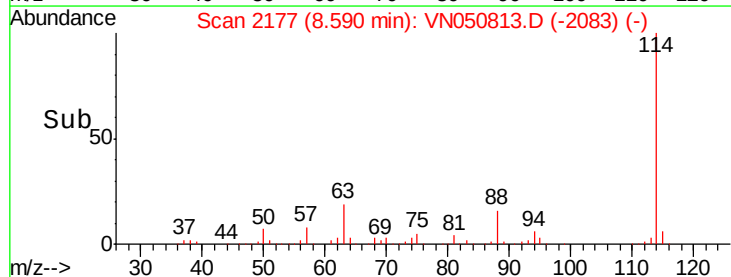
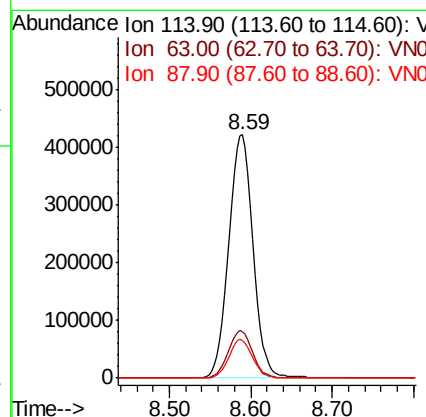
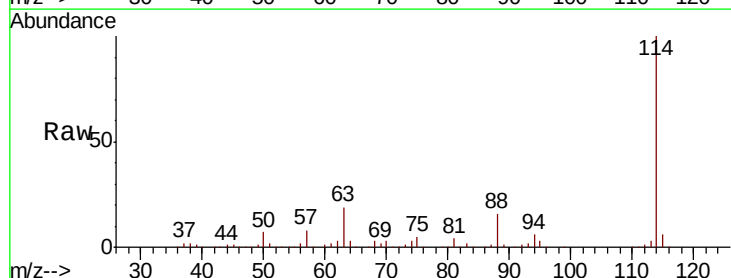
Manual Integrations
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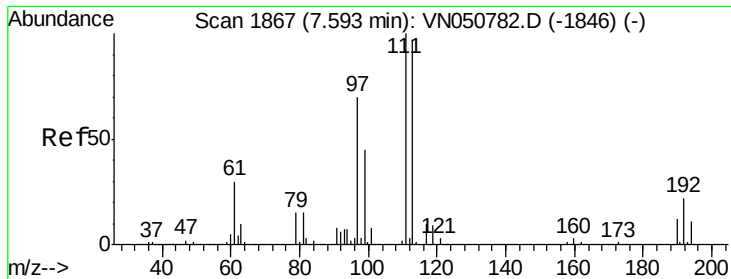
MMDadoda
 8/23/2018 12:26:40 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.2	0.0	38.6	
88	15.6	0.0	30.6	





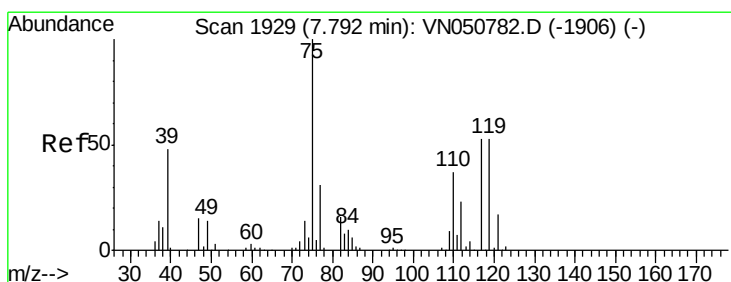
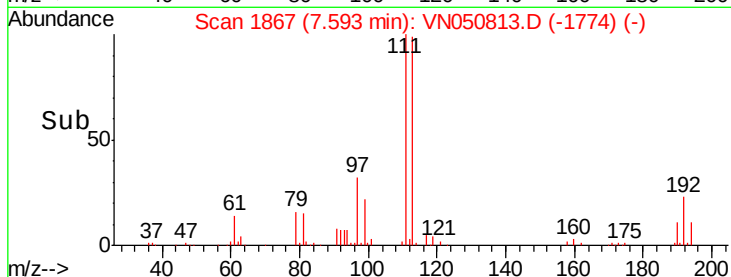
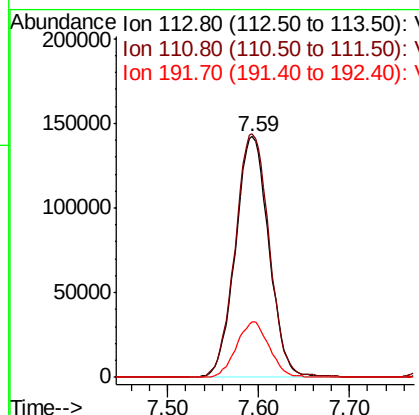
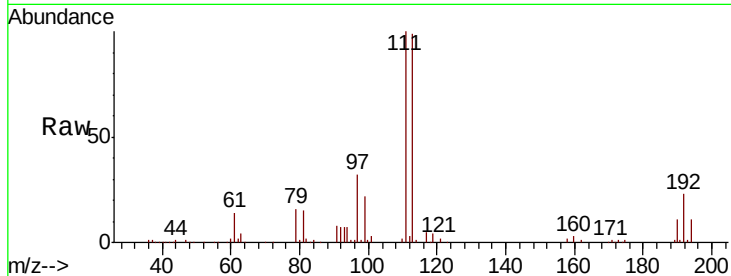
#35
 Dibromofluoromethane
 Concen: 51.02 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.2	82.6	123.8	
192	22.6	18.0	27.0	

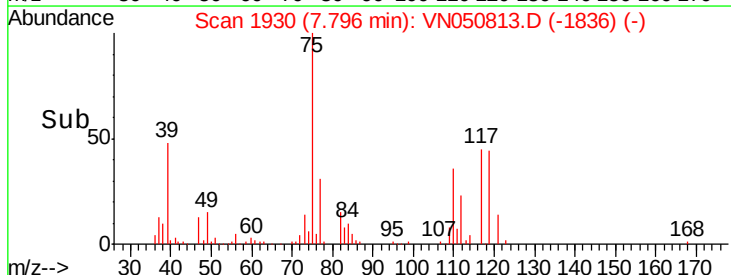
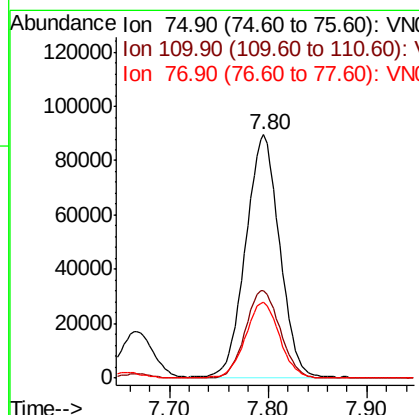
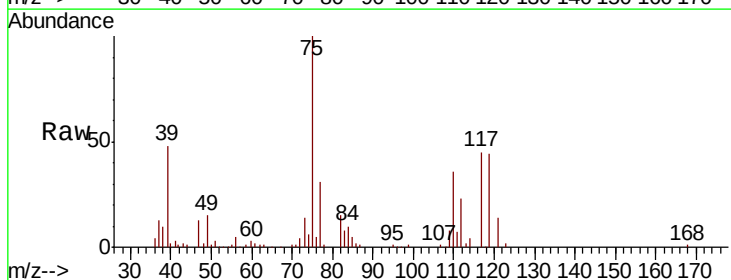
Manual Integrations
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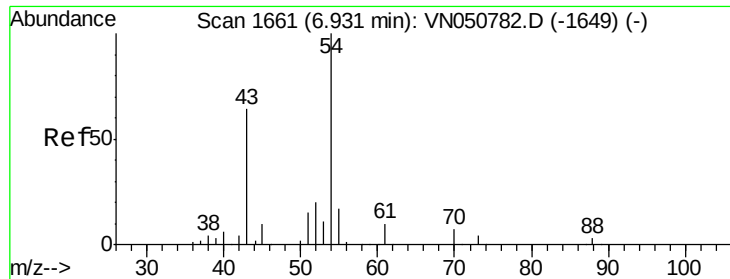
MMDadoda
 8/23/2018 12:26:40 PM



#36
 1,1-Dichloropropene
 Concen: 20.01 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.9	18.1	54.4	
77	31.9	24.8	37.2	





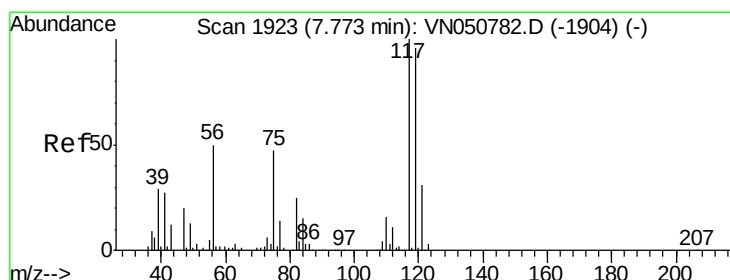
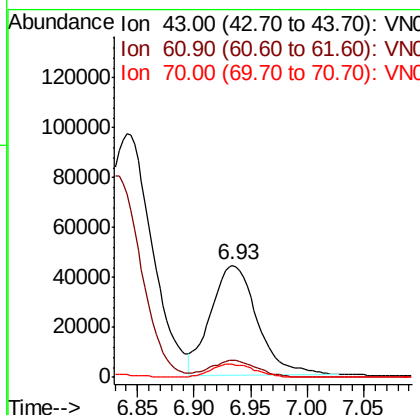
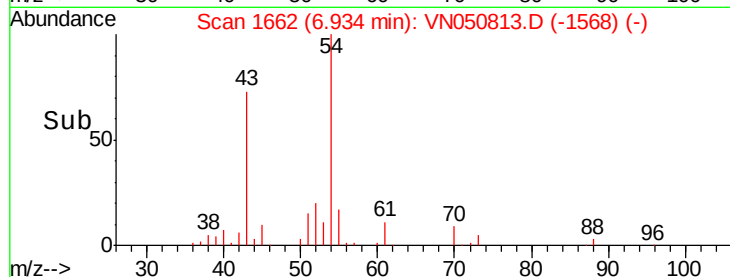
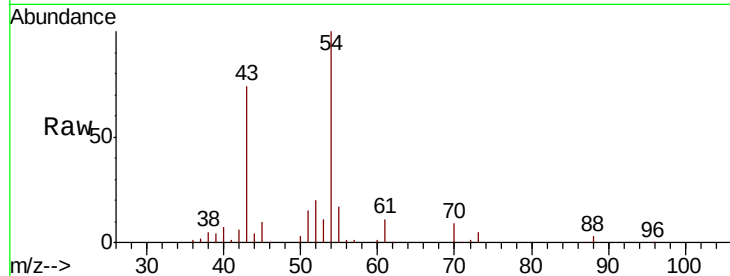
#37
Ethyl Acetate
Concen: 20.91 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	12.0	18.0
70	11.5	8.6	13.0

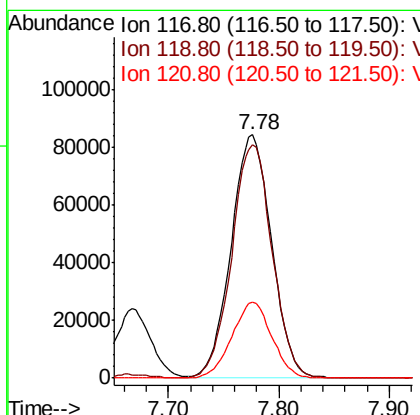
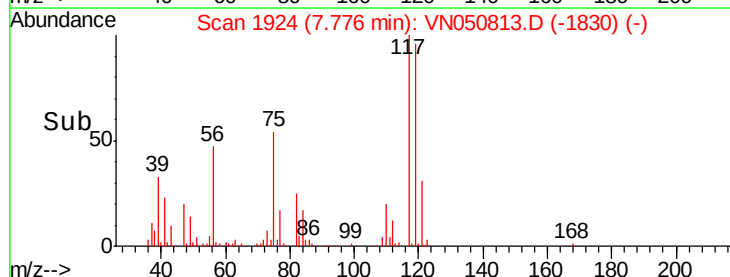
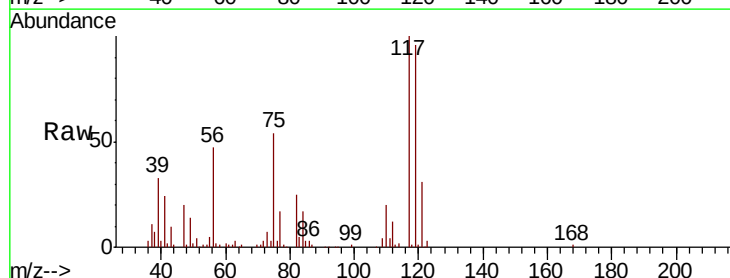
Manual Integrations
APPROVED

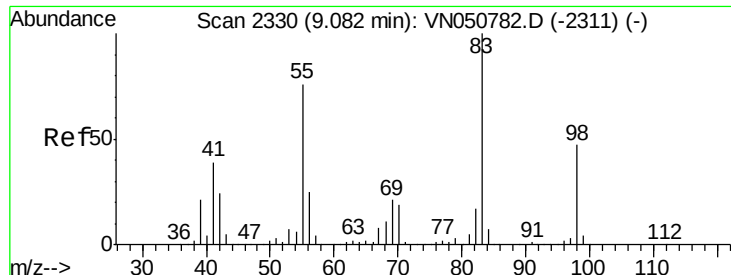
MMDadoda
8/23/2018 12:26:40 PM



#38
Carbon Tetrachloride
Concen: 20.15 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.3	114.5
121	31.3	24.6	36.8





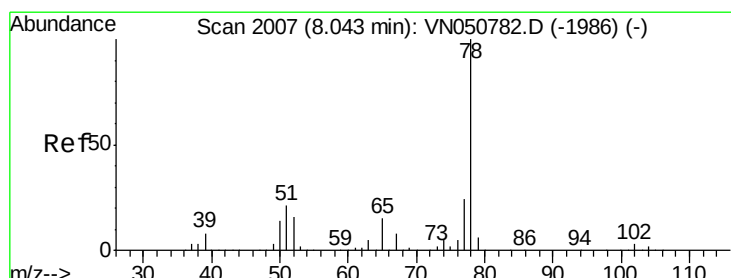
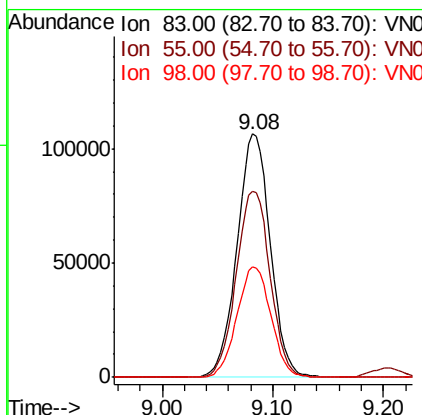
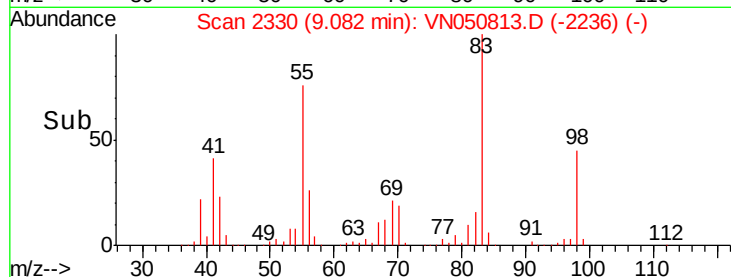
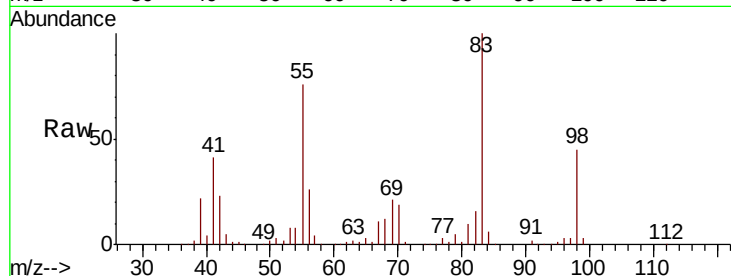
#39
Methylvlcyclohexane
Concen: 19.46 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	76.4	61.0	91.4
98	45.4	37.5	56.3

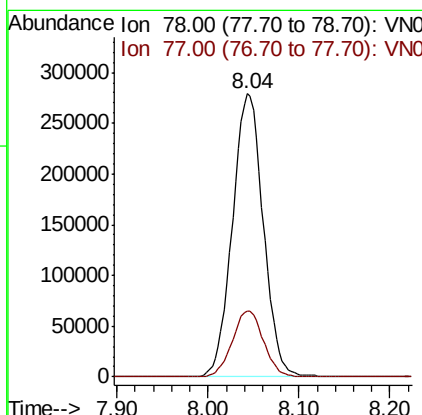
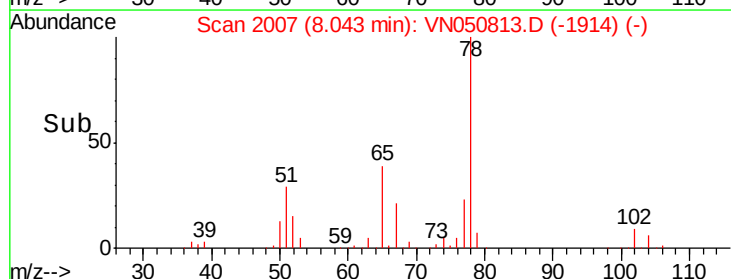
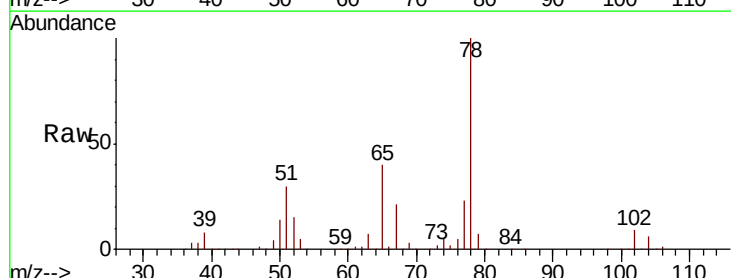
Manual Integrations
APPROVED

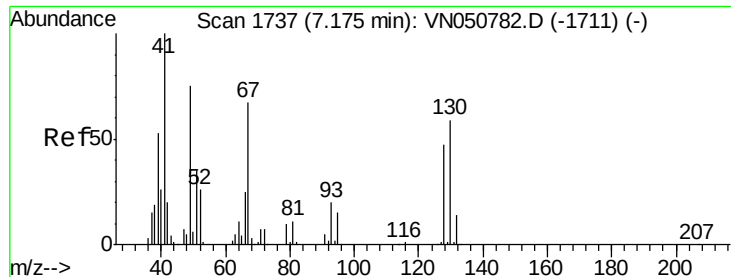
MMDadoda
8/23/2018 12:26:40 PM



#40
Benzene
Concen: 20.68 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.4





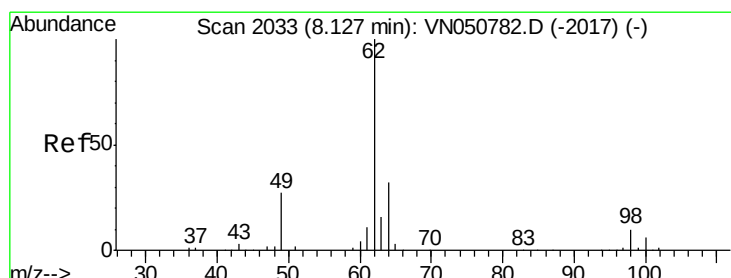
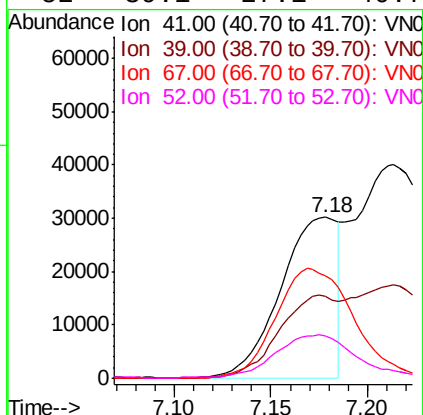
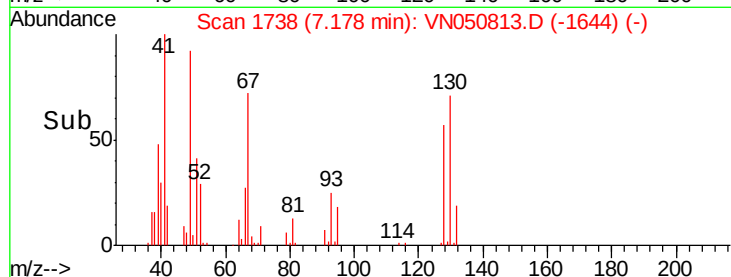
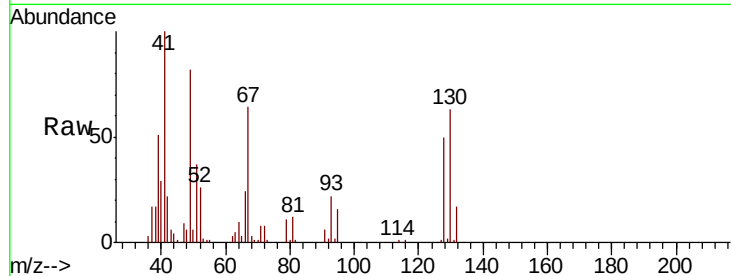
#41
Methacrylonitrile
Concen: 18.97 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	41	Resp	62245
Ion	Ratio	Lower	Upper
41	100		
39	51.8	45.4	68.0
67	92.9	70.6	106.0
52	39.1	27.1	40.7

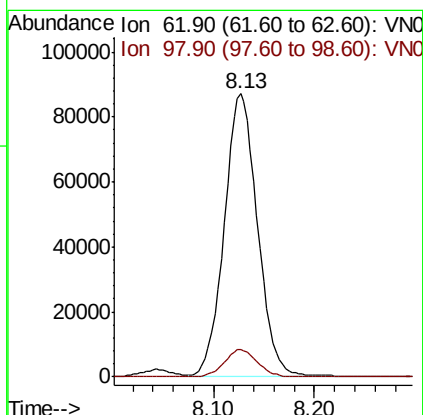
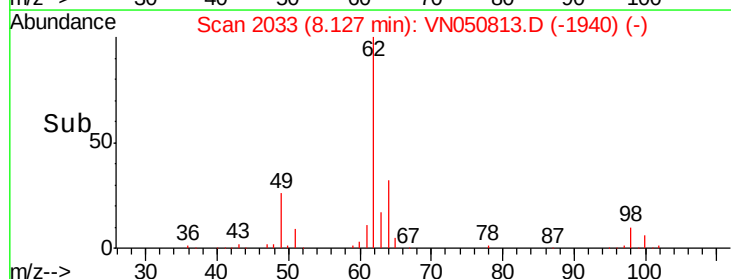
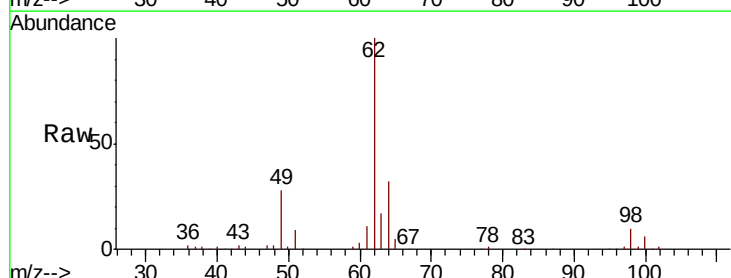
Manual Integrations
APPROVED

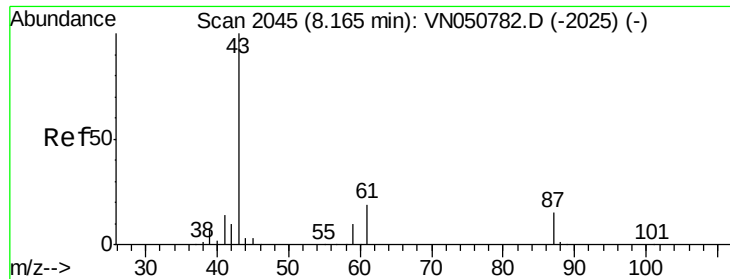
MMDadoda
8/23/2018 12:26:40 PM



#42
1,2-Dichloroethane
Concen: 20.87 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	62	Resp	198616
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.6





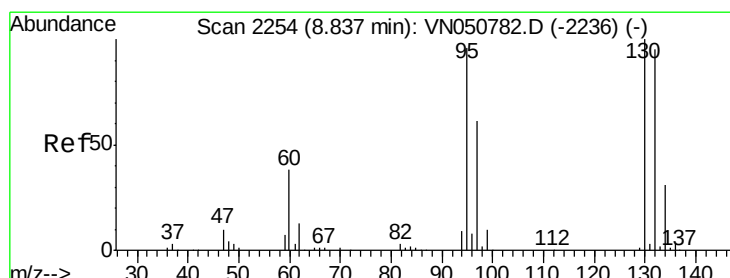
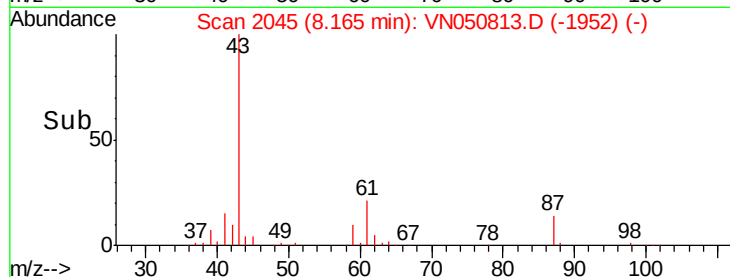
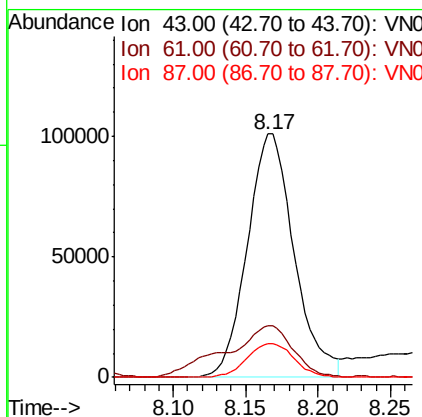
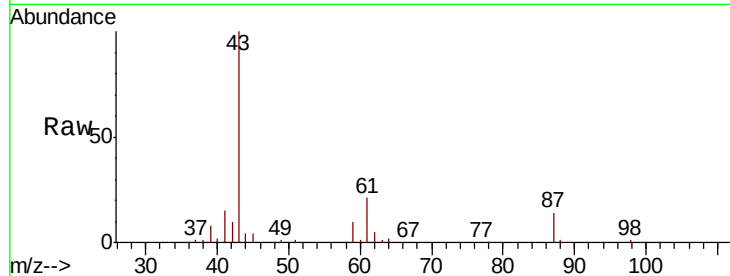
#43
Isopropyl Acetate
Concen: 21.62 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.0	17.5	26.3#
87	14.1	11.3	16.9

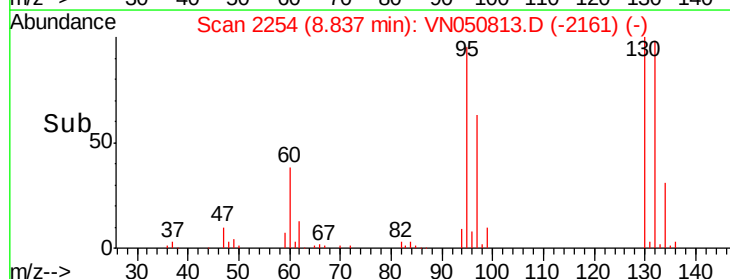
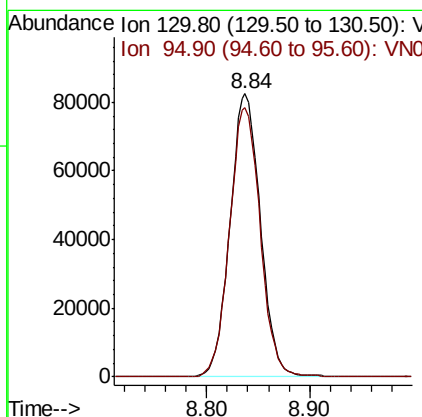
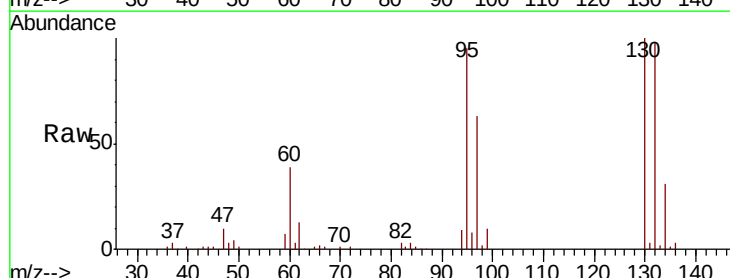
Manual Integrations
APPROVED

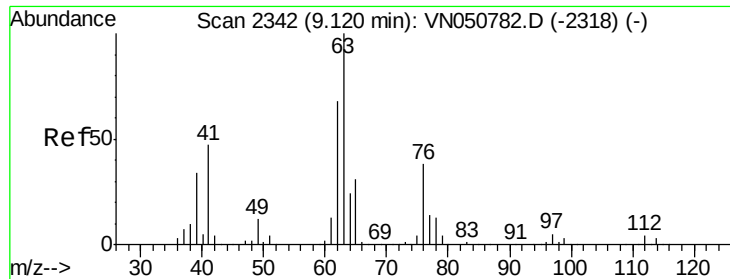
MMDadoda
8/23/2018 12:26:40 PM



#44
Trichloroethene
Concen: 20.17 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
130	100		
95	95.1	0.0	193.0





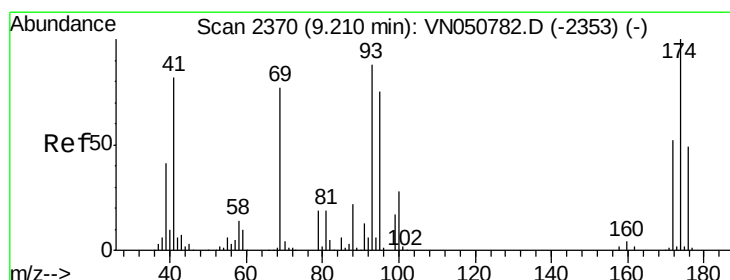
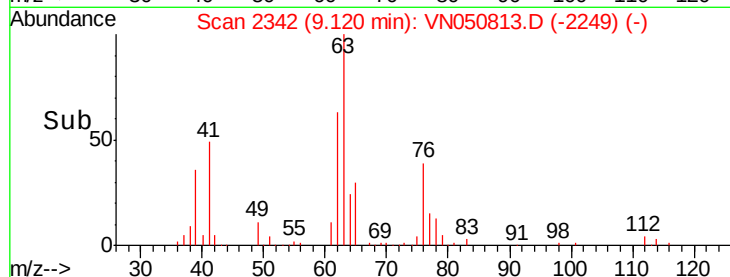
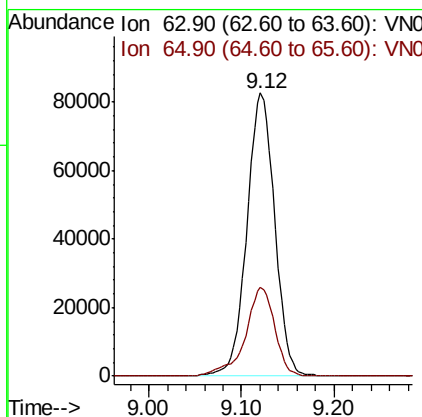
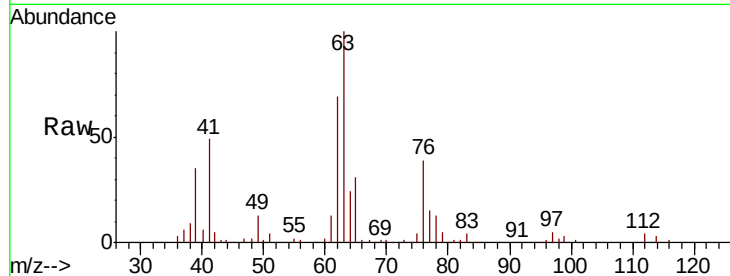
#45
 1,2-Dichloropropane
 Concen: 20.59 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion: 63 Resp: 172188
 Ion Ratio Lower Upper
 63 100
 65 31.2 25.0 37.6

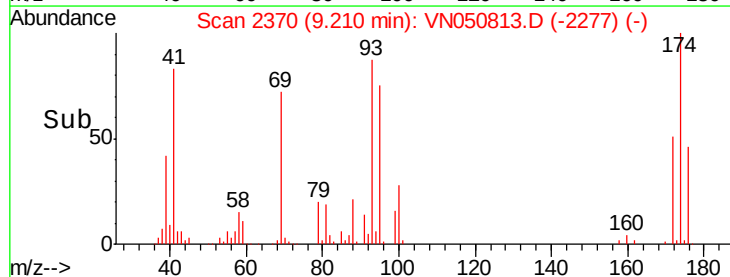
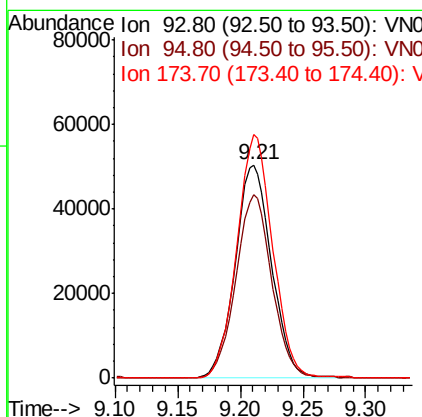
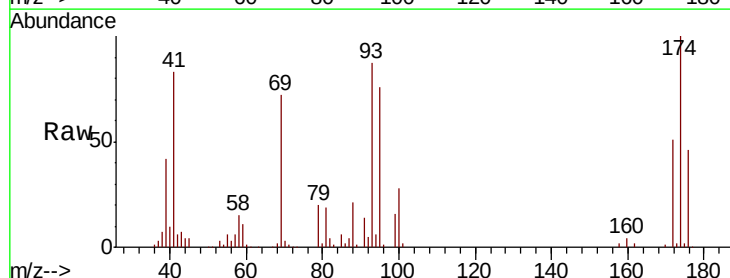
Manual Integrations
 APPROVED

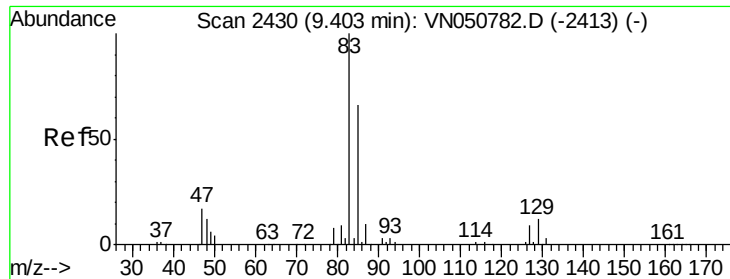
MMDadoda
 8/23/2018 12:26:40 PM



#46
 Dibromomethane
 Concen: 20.71 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion: 93 Resp: 101778
 Ion Ratio Lower Upper
 93 100
 95 85.3 66.7 100.1
 174 112.4 89.8 134.6





#47

Bromodichloromethane

Concen: 20.56 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

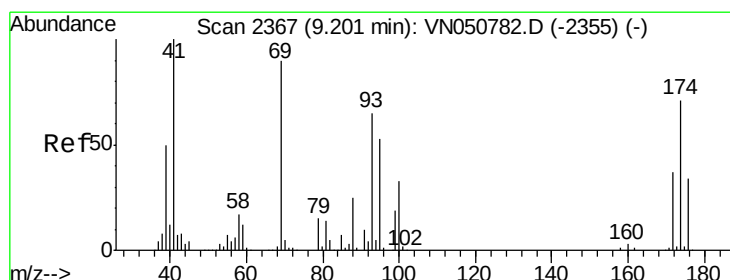
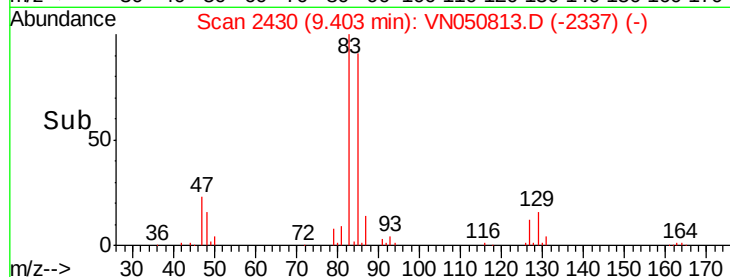
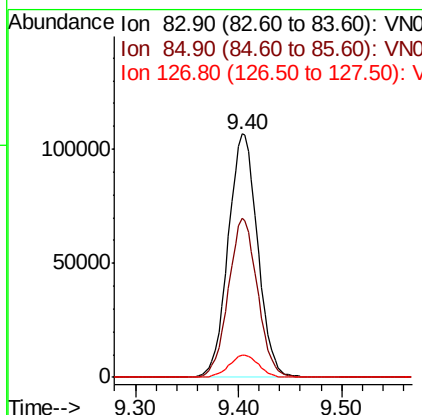
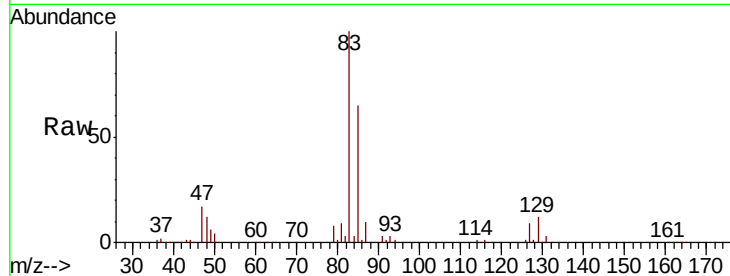
ClientSampleId :

VN0822WBS01

Tot Ion:	83	Resp:	211599
Ion Ratio	Lower	Upper	
83	100		
85	65.5	52.6	78.8
127	8.9	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:26:40 PM



#48

Methyl methacrylate

Concen: 21.31 ug/l

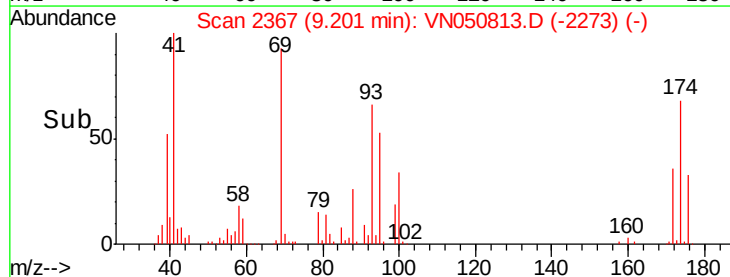
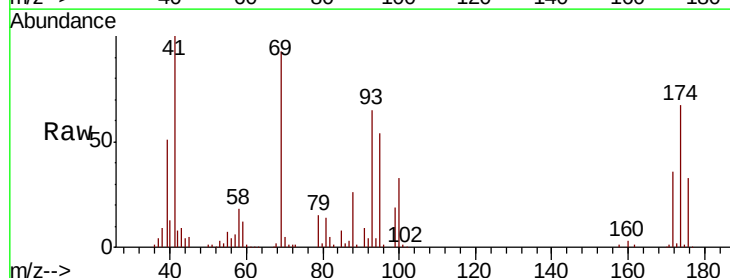
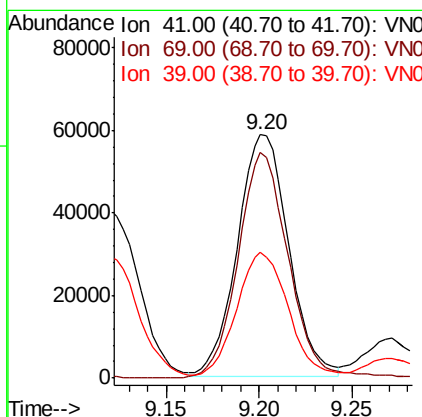
RT: 9.20 min Scan# 2367

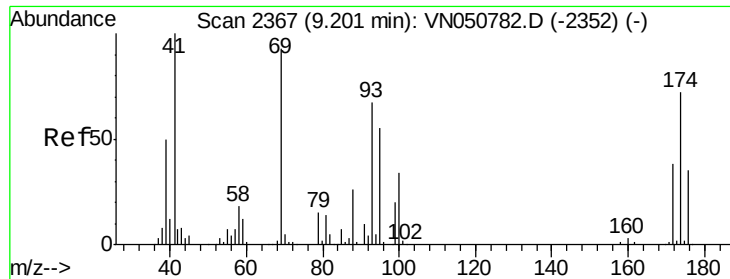
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	41	Resp:	113203
Ion Ratio	Lower	Upper	
41	100		
69	92.0	74.7	112.1
39	51.8	42.2	63.2





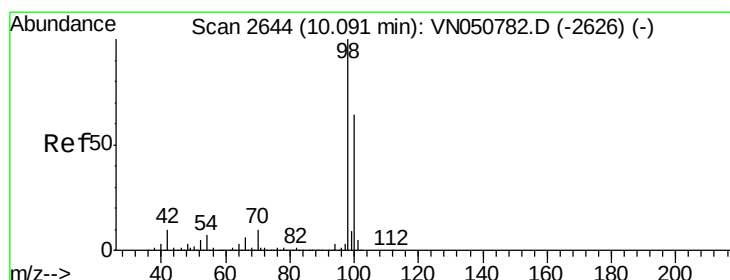
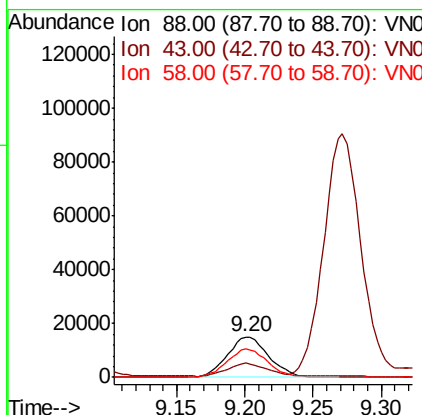
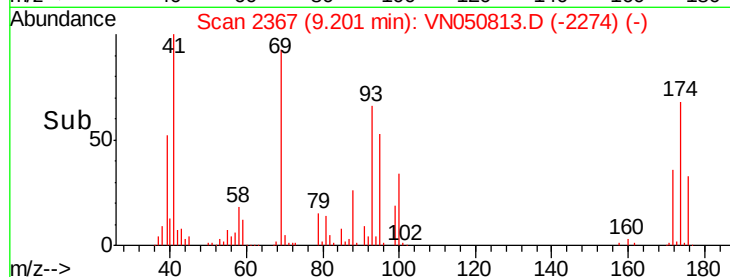
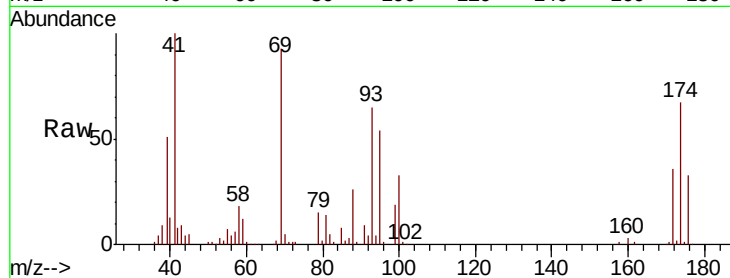
#49
1,4-Dioxane
Concen: 438.62 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	29.6	25.9	38.9
58	69.1	55.0	82.4

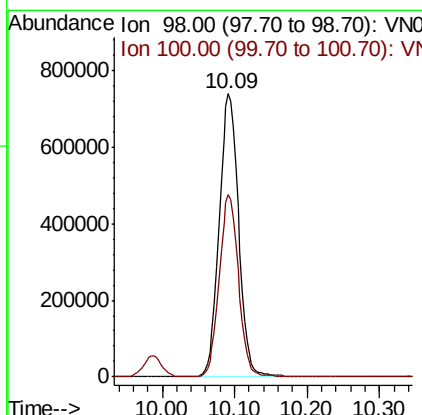
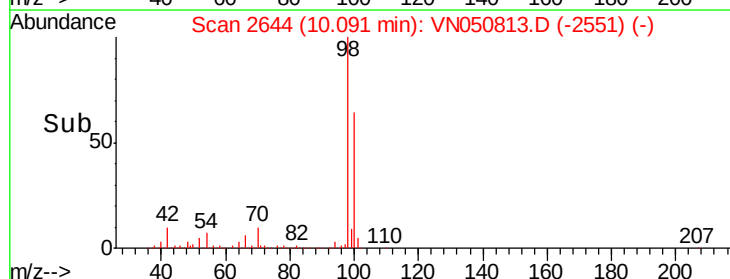
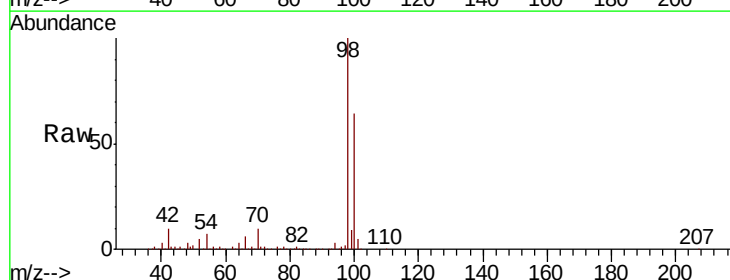
Manual Integrations
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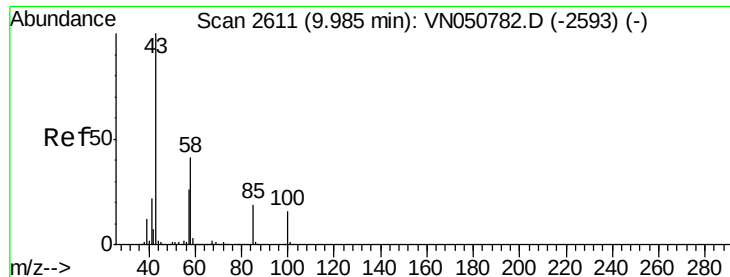
MMDadoda
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#50
Toluene-d8
Concen: 51.41 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	51.5	77.3





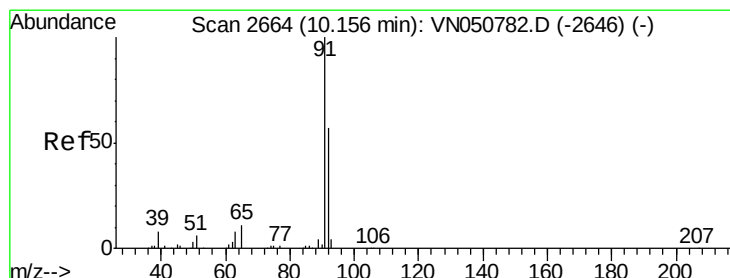
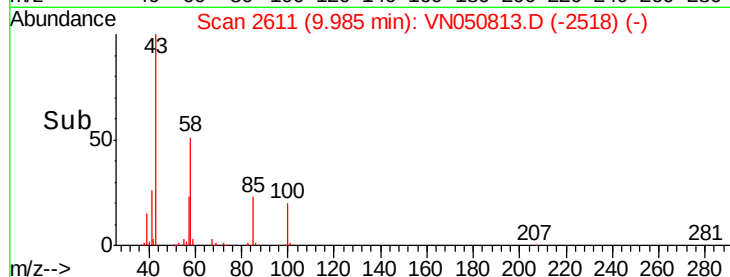
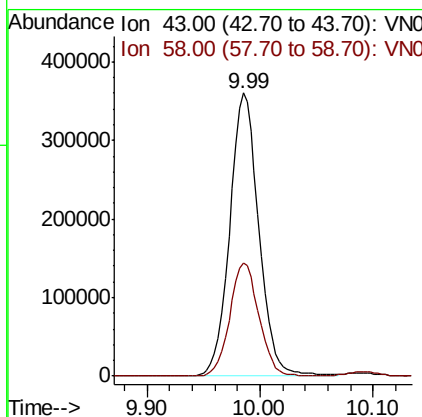
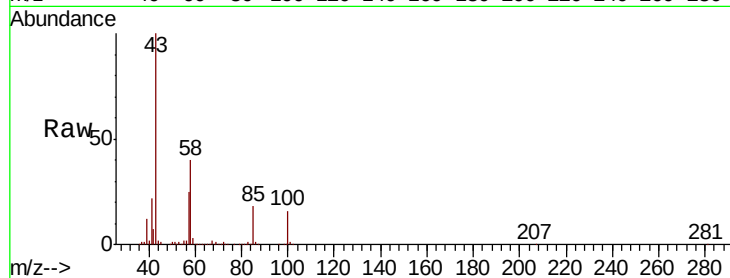
#51
 4-Methyl-2-Pentanone
 Concen: 103.24 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion	43	Resp	642229
Ion Ratio	100	Lower	Upper
43	100		
58	40.3	32.4	48.6

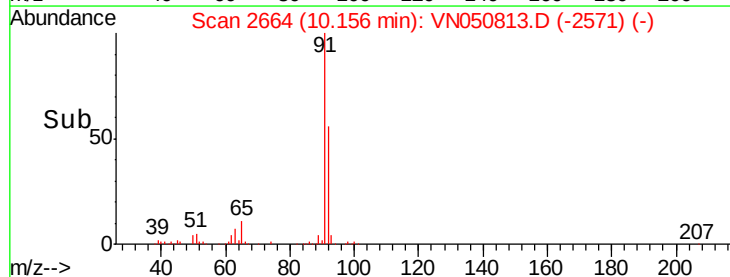
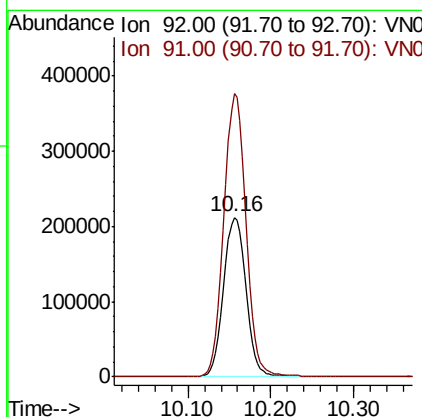
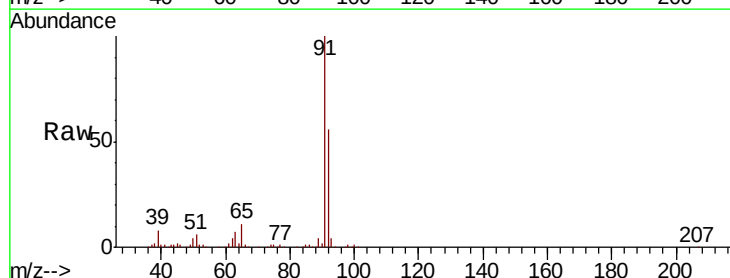
Manual Integrations
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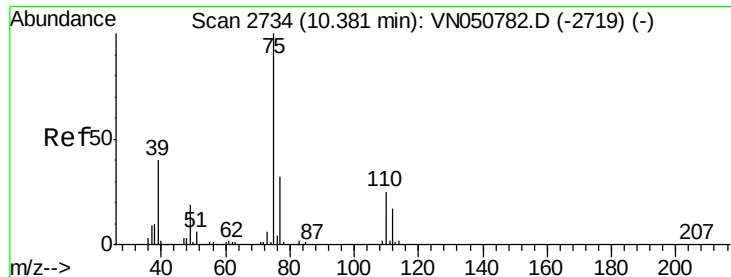
MMDadoda
 8/23/2018 12:26:40 PM



#52
 Toluene
 Concen: 21.26 ug/l
 RT: 10.16 min Scan# 2664
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	92	Resp	400893
Ion Ratio	100	Lower	Upper
92	100		
91	174.9	140.6	211.0





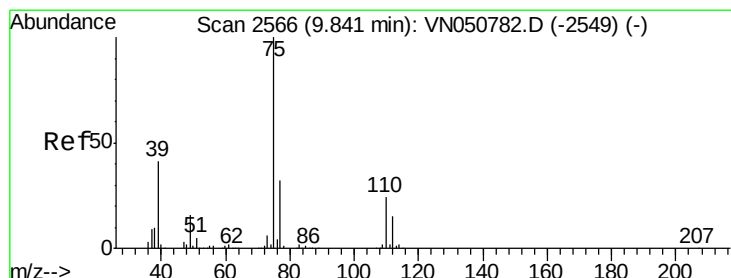
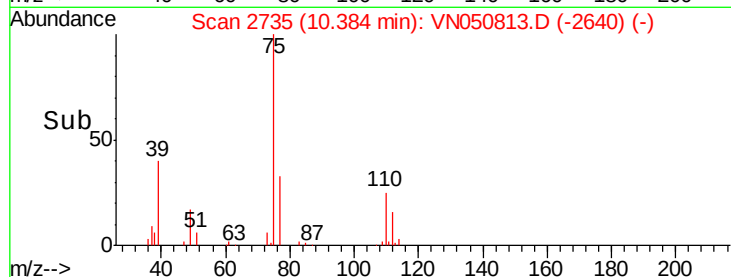
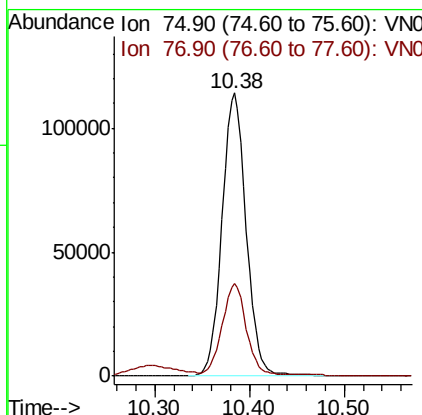
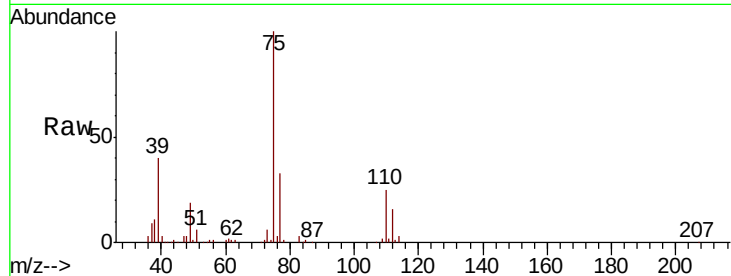
#53
t-1,3-Dichloropropene
Concen: 19.79 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampled :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.6	25.7	38.5

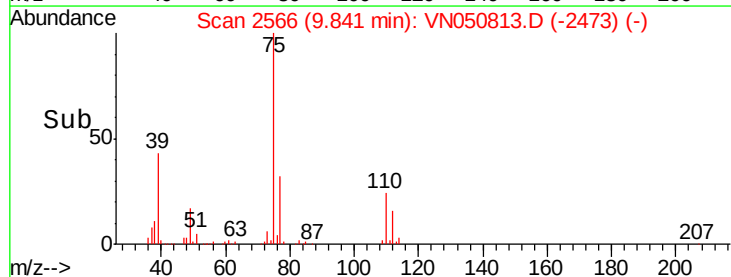
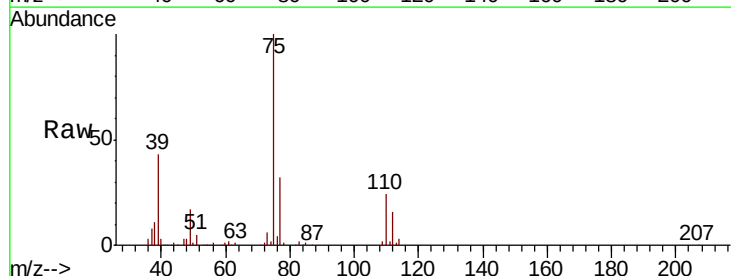
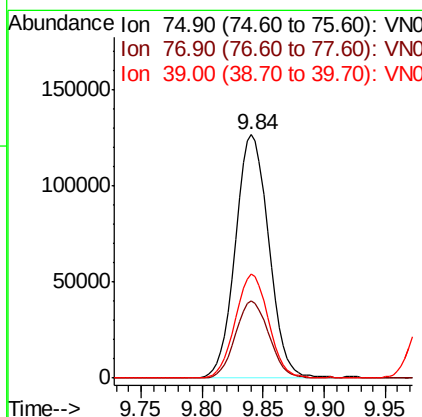
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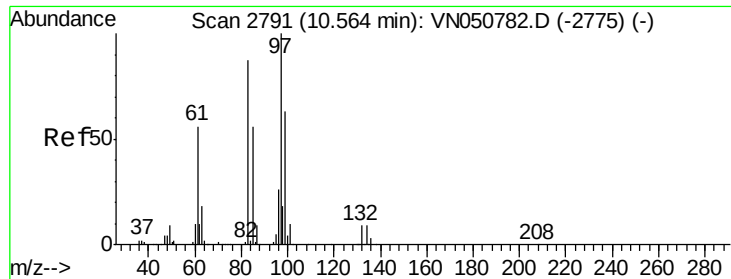
MMDadoda
8/23/2018 12:26:40 PM



#54
cis-1,3-Dichloropropene
Concen: 20.50 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.2
39	42.5	33.0	49.4





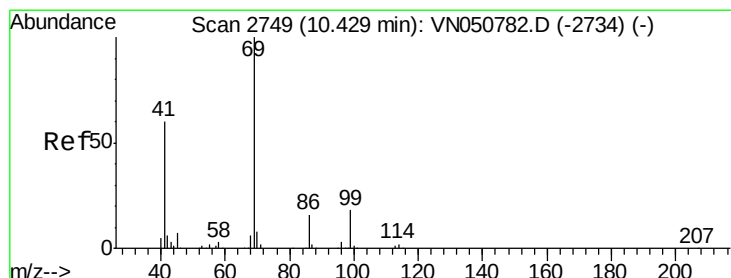
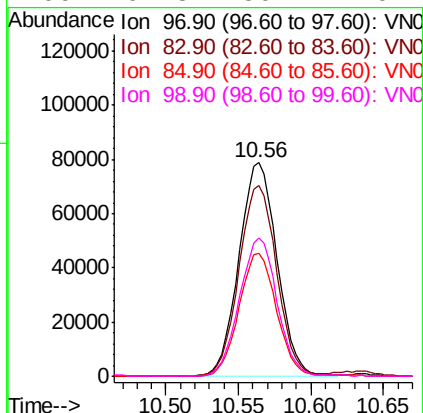
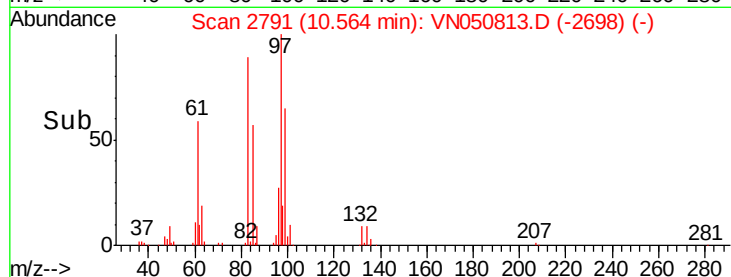
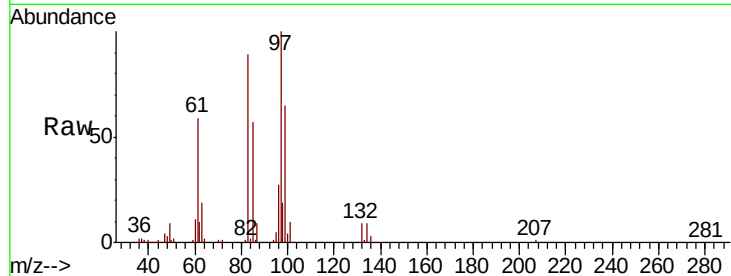
#55
 1,1,2-Trichloroethane
 Concen: 20.62 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion:	97	Resp:	144305
Ion	Ratio	Lower	Upper
97	100		
83	89.1	69.7	104.5
85	57.3	44.5	66.7
99	64.8	50.7	76.1

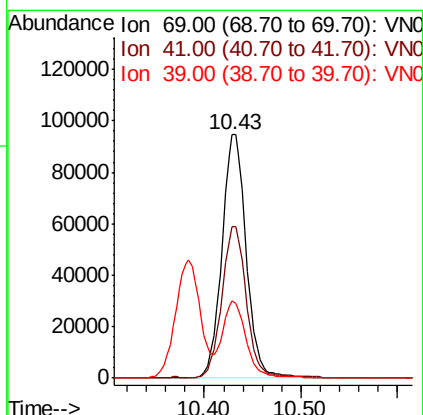
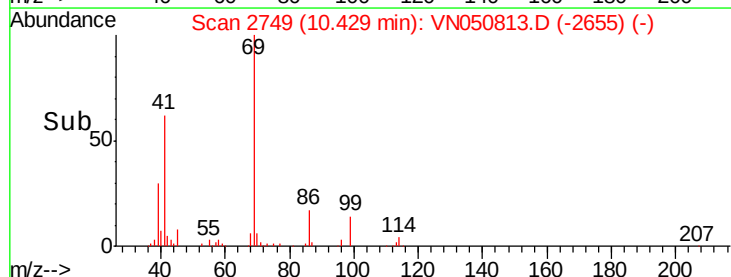
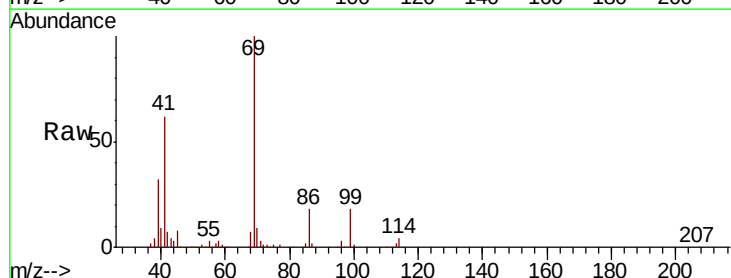
Manual Integrations
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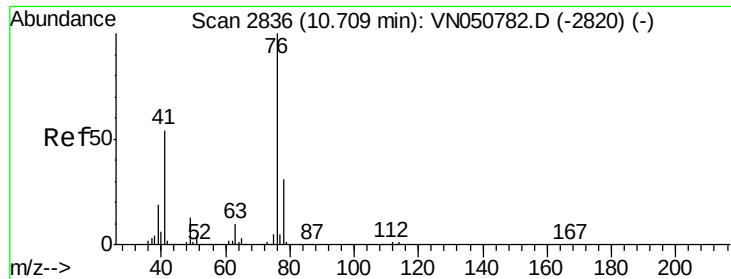
MMDadoda
 8/23/2018 12:26:40 PM



#56
 Ethyl methacrylate
 Concen: 19.60 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion:	69	Resp:	164795
Ion	Ratio	Lower	Upper
69	100		
41	62.2	48.3	72.5
39	30.7	24.0	36.0





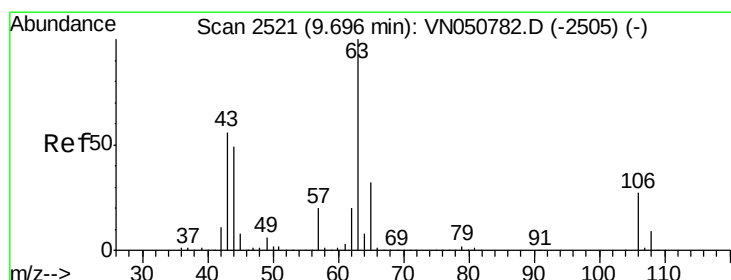
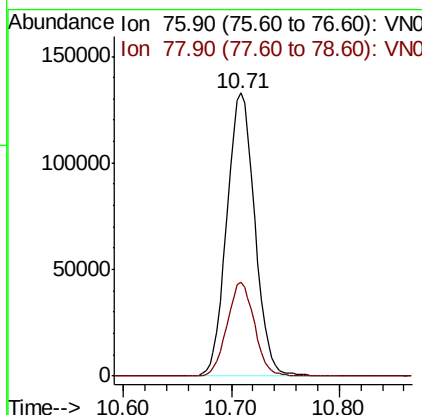
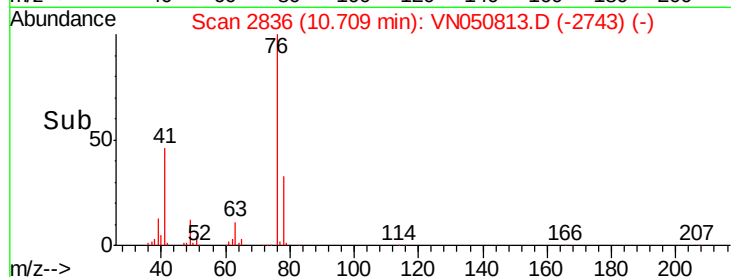
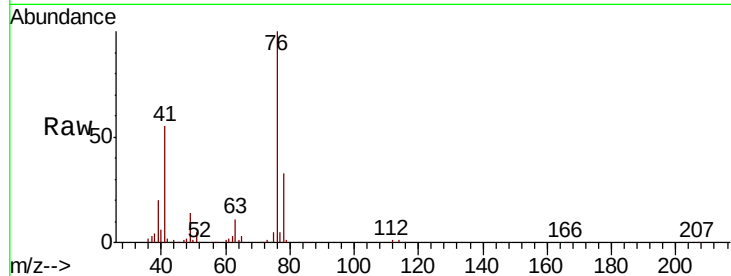
#57
 1,3-Dichloropropane
 Concen: 20.87 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.5	38.3

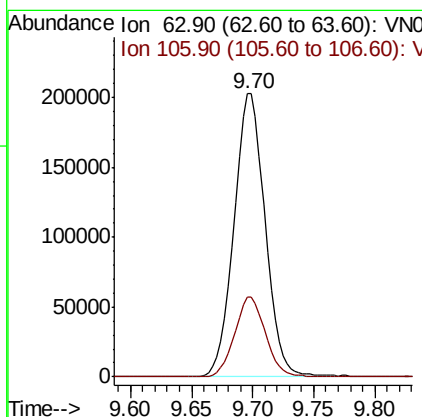
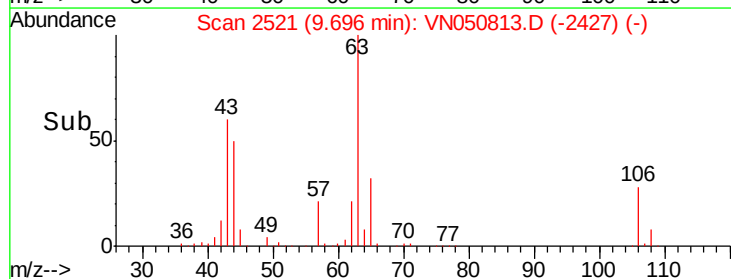
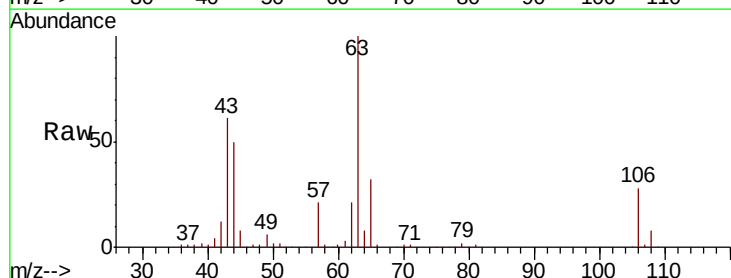
Manual Integrations
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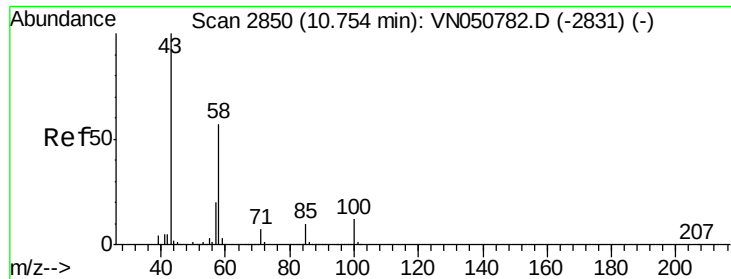
MMDadoda
 8/23/2018 12:26:40 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 98.24 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.9	21.9	32.9





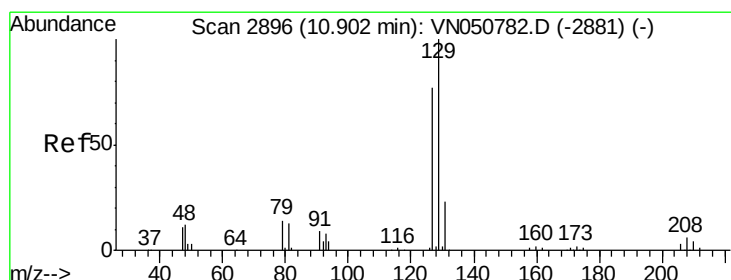
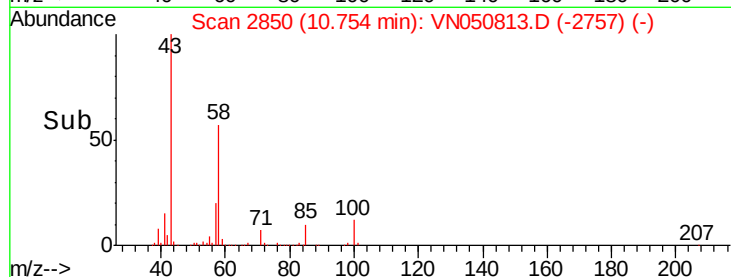
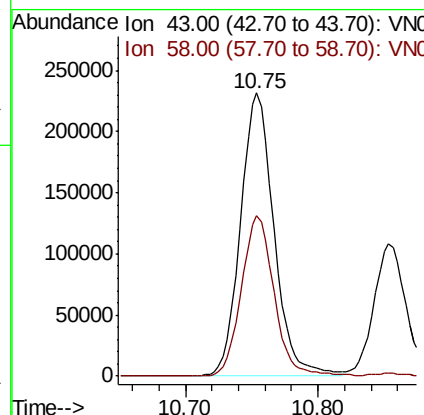
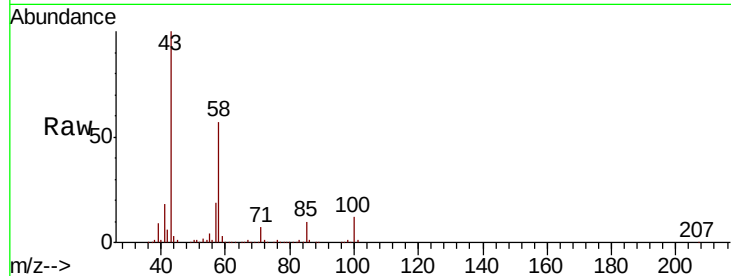
#59
2-Hexanone
Concen: 97.65 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	43	Resp	404372
Ion Ratio	100	Lower	Upper
43	100		
58	55.8	28.3	85.0

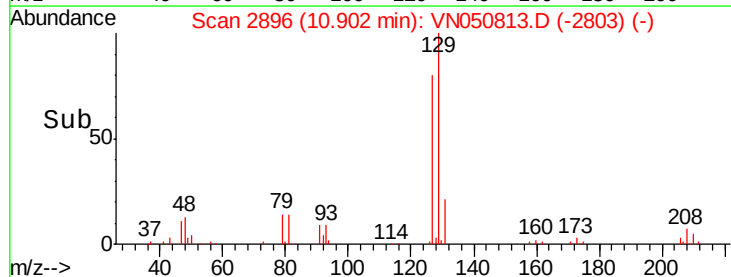
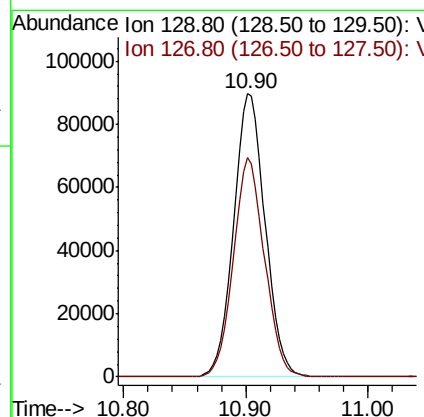
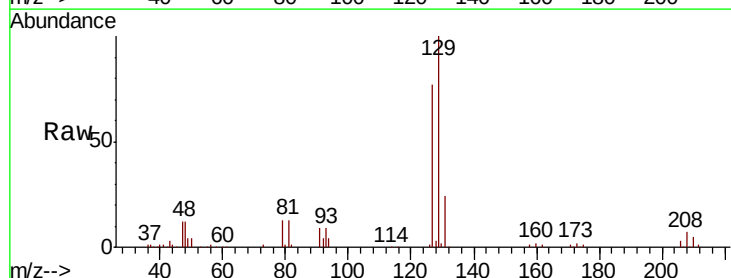
Manual Integrations
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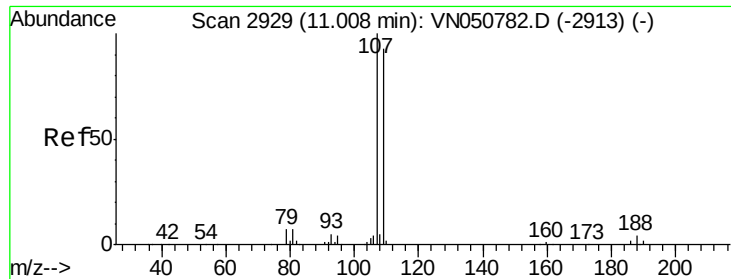
MMDadoda
8/23/2018 12:26:40 PM



#60
Dibromochloromethane
Concen: 20.59 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	129	Resp	161291	
Ion Ratio	129	100	Lower	Upper
129	100			
127	76.5	38.3	114.9	





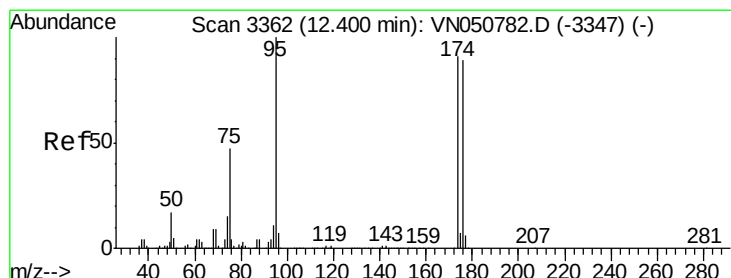
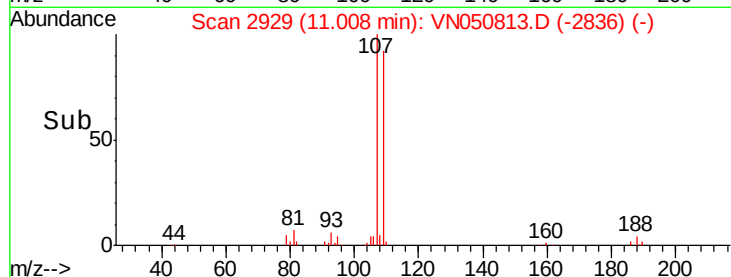
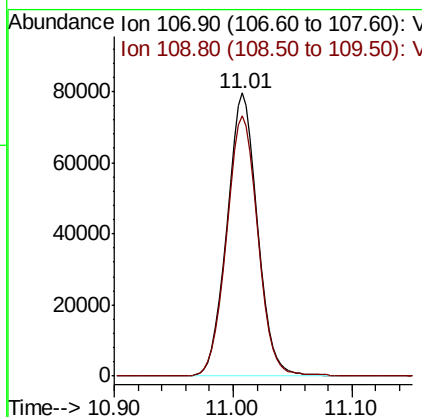
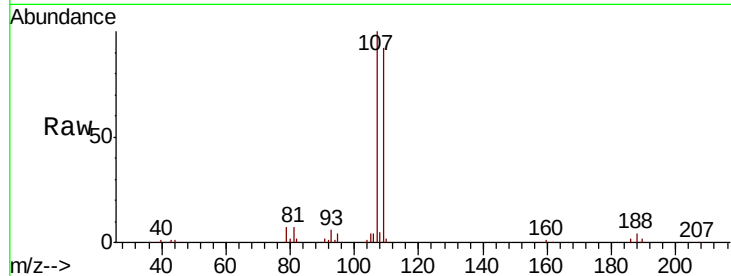
#61
 1,2-Dibromoethane
 Concen: 20.83 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
107	100	140951		
109	94.6	75.4	113.2	

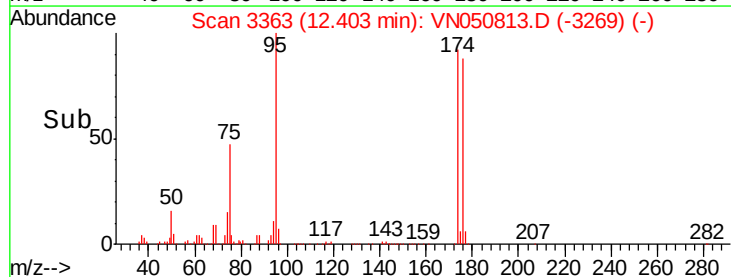
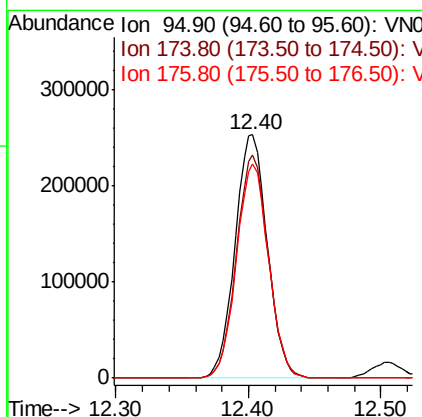
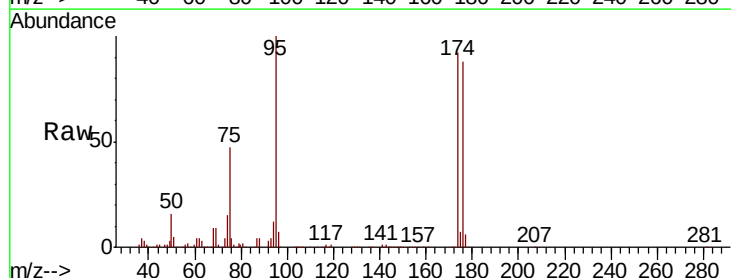
Manual Integrations
 APPROVED

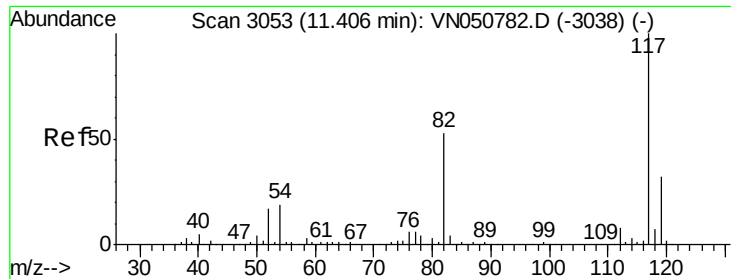
MMDadoda
 8/23/2018 12:26:40 PM



#62
 4-Bromofluorobenzene
 Concen: 48.46 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	428373		
174	90.3	0.0	183.0	
176	87.6	0.0	178.8	





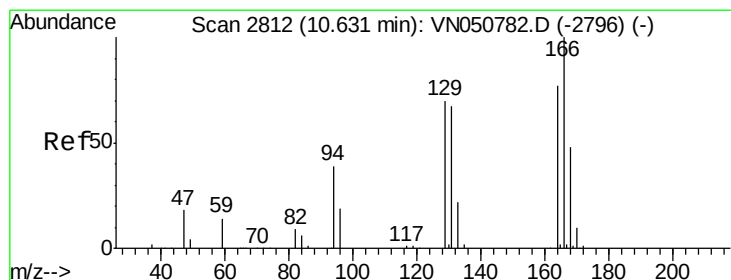
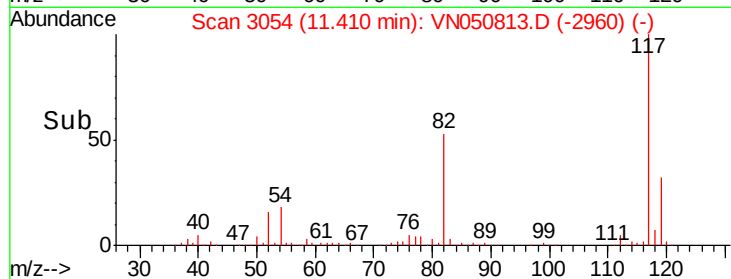
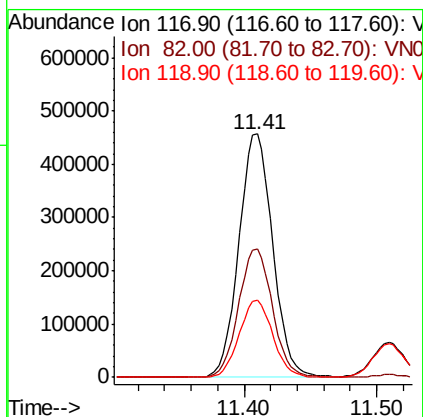
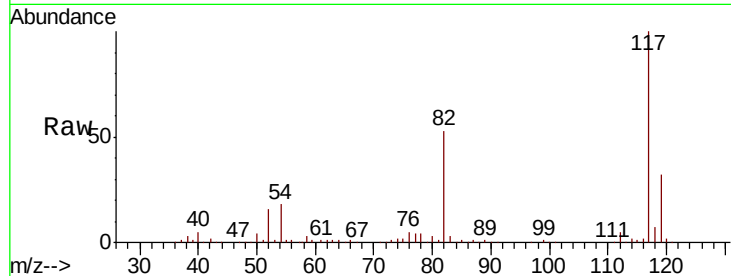
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.6	64.0
119	31.7	25.8	38.6

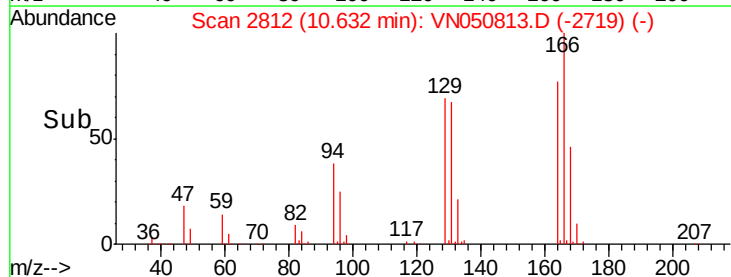
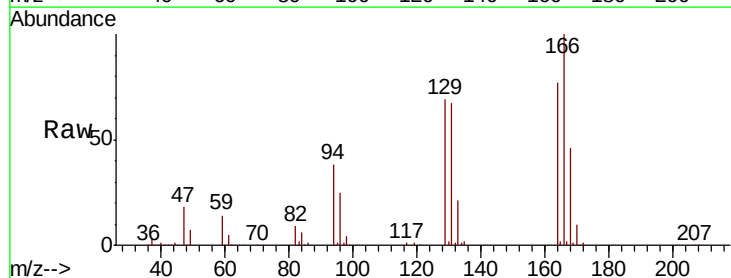
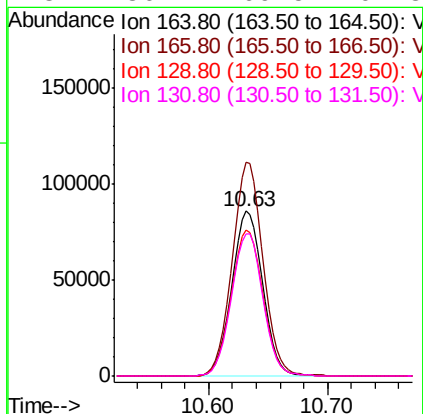
Manual Integrations
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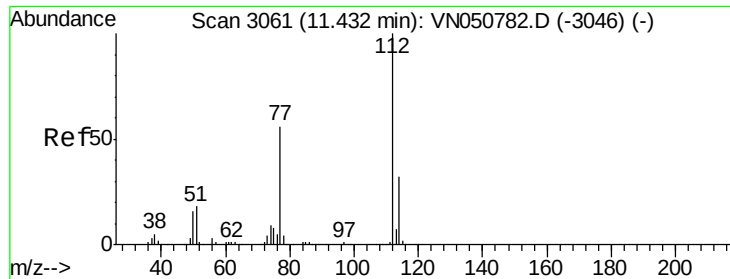
MMDadoda
8/23/2018 12:26:40 PM



#64
Tetrachloroethene
Concen: 20.15 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.7	103.5	155.3
129	89.0	72.7	109.1
131	86.4	69.5	104.3





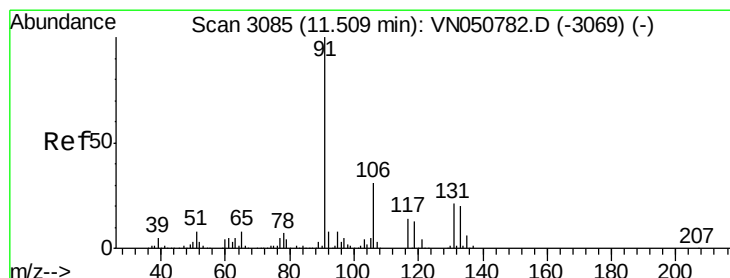
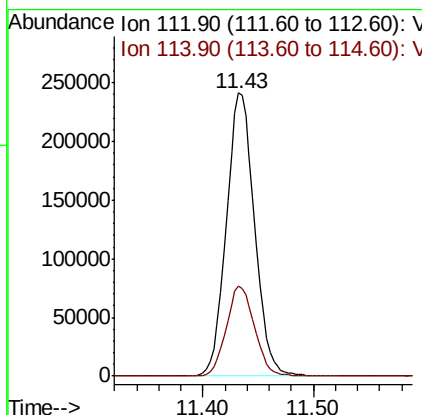
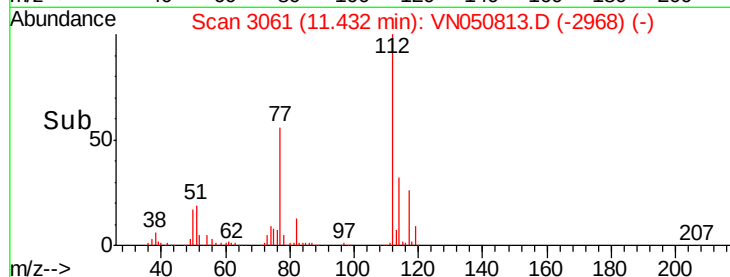
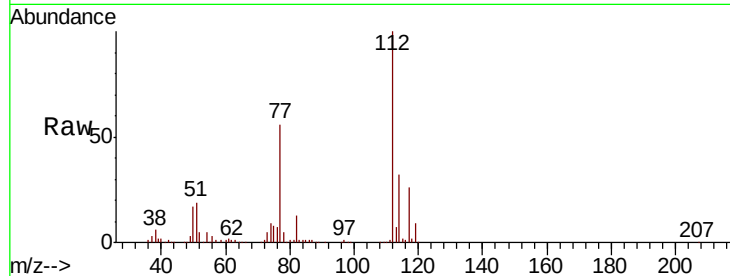
#65
Chlorobenzene
Concen: 20.21 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampled :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.6	38.4

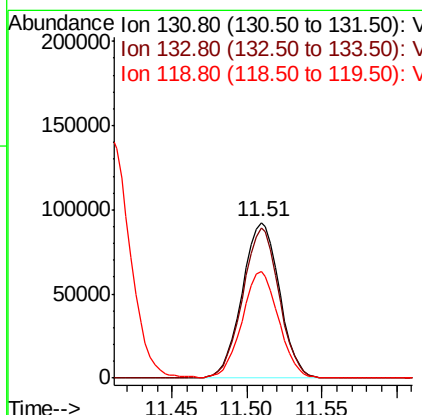
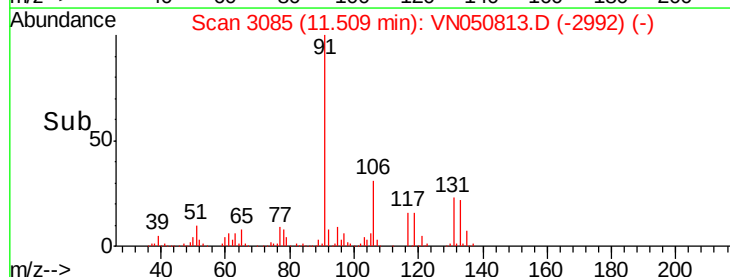
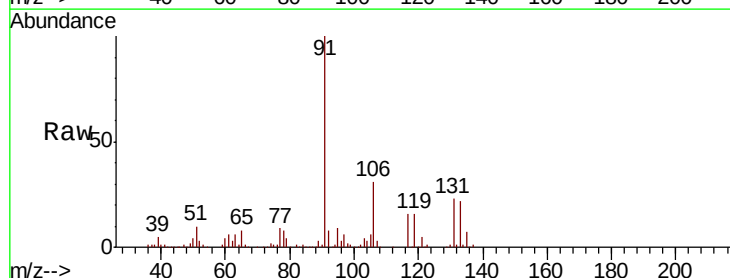
Manual Integrations
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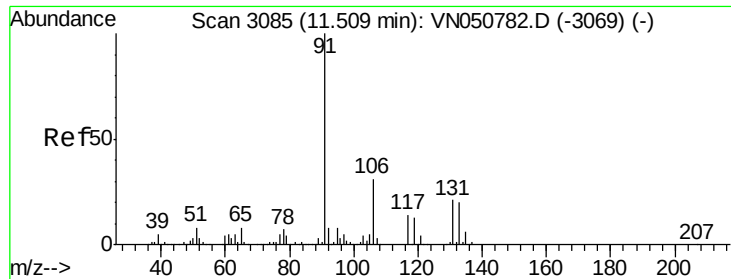
MMDadoda
8/23/2018 12:26:40 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.73 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.7	47.4	142.3
119	67.1	32.8	98.4





#67

Ethyl Benzene

Concen: 20.20 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampled :

VN0822WBS01

Tot Ion: 91 Resp: 694254

Ion Ratio Lower Upper

91 100

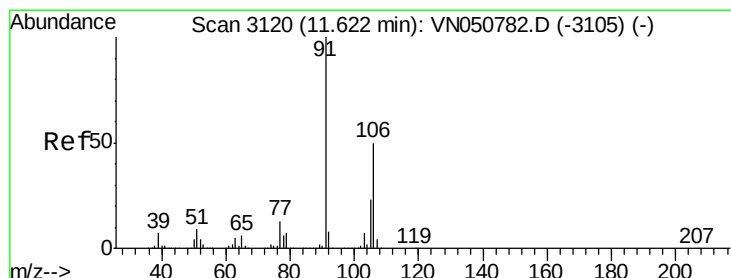
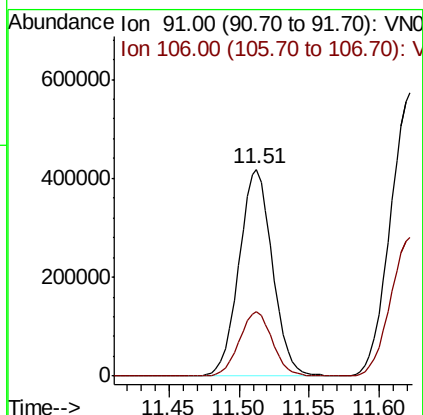
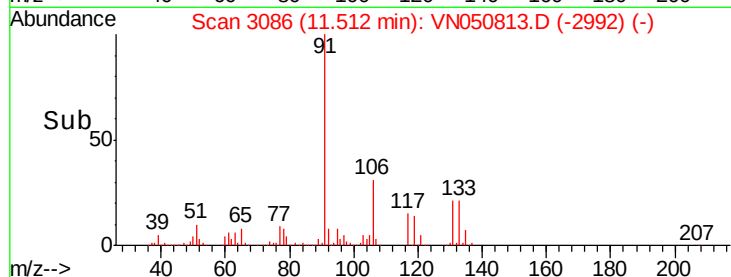
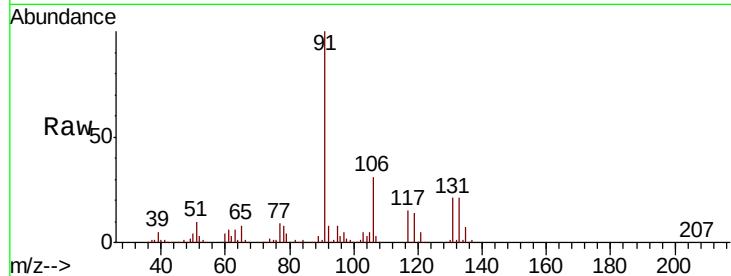
106 31.0 25.0 37.4

Manual Integrations

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#68

m/p-Xylenes

Concen: 41.95 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050813.D

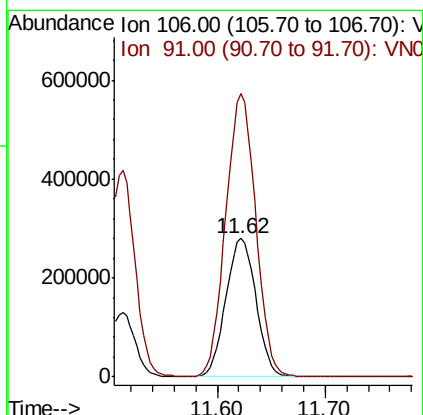
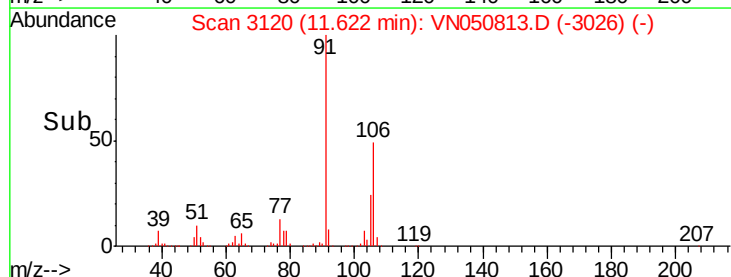
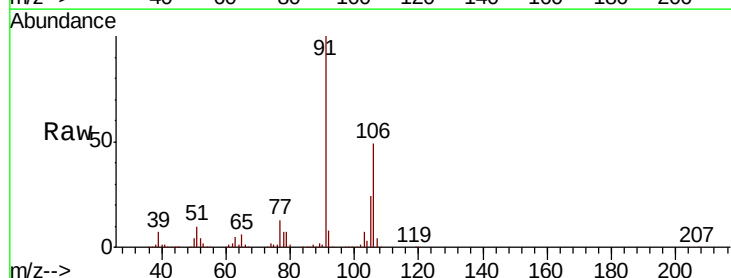
Acq: 22 Aug 2018 12:34

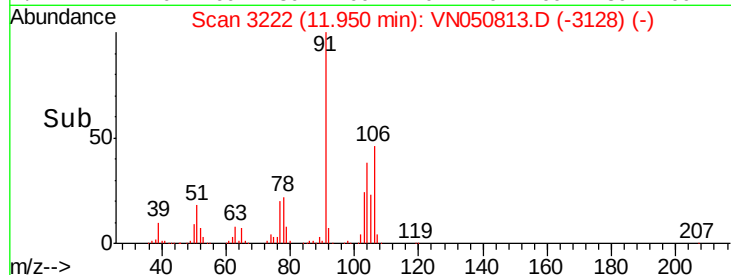
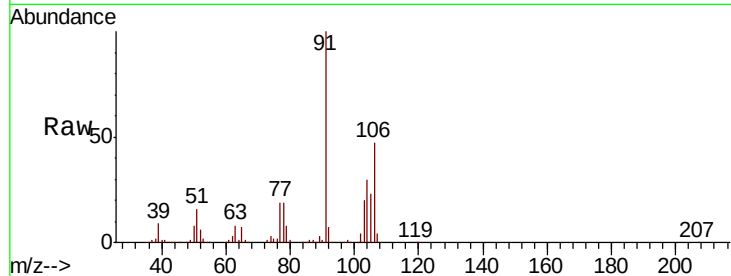
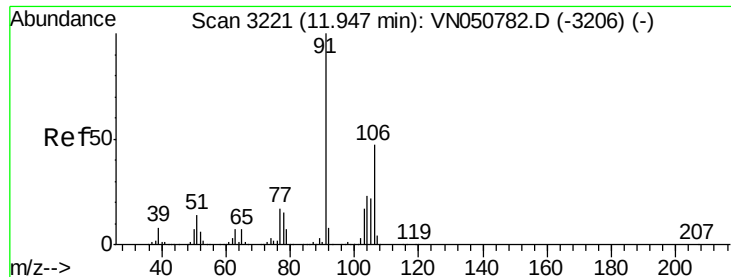
Tgt Ion: 106 Resp: 547184

Ion Ratio Lower Upper

106 100

91 203.0 161.0 241.6





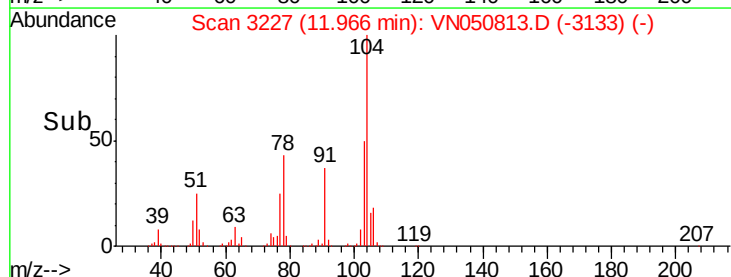
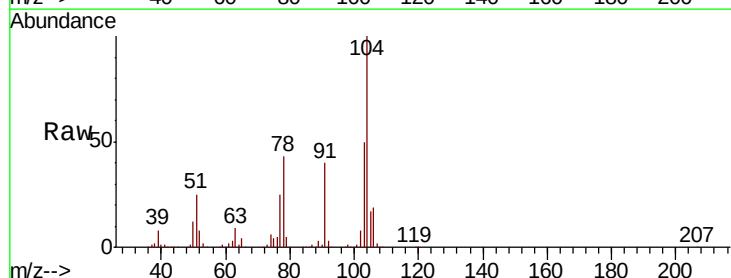
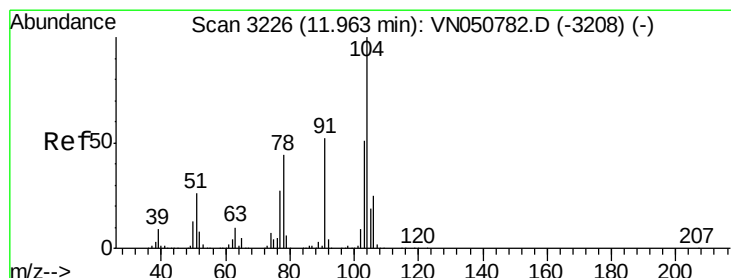
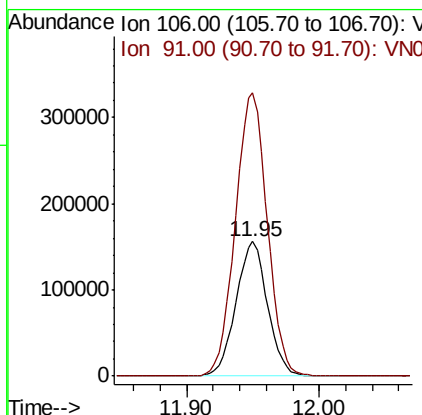
#69
o-Xylene
Concen: 20.48 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tot Ion	Ratio	Resp	Lower	Upper
106	100	256830		
91	213.9	106.5	319.5	

Instrument :
MSVOA_N
ClientSampled :
VN0822WBS01

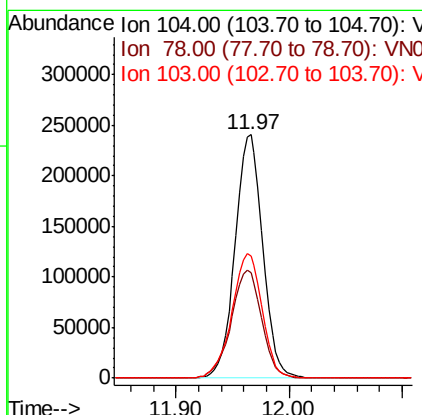
Manual Integrations
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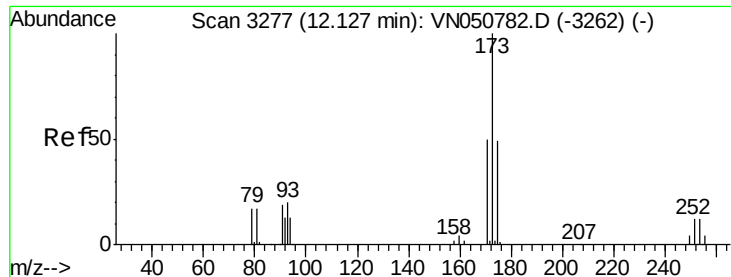
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#70
Styrene
Concen: 19.37 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	410401		
78	48.9	38.2	57.4	
103	55.9	44.4	66.6	





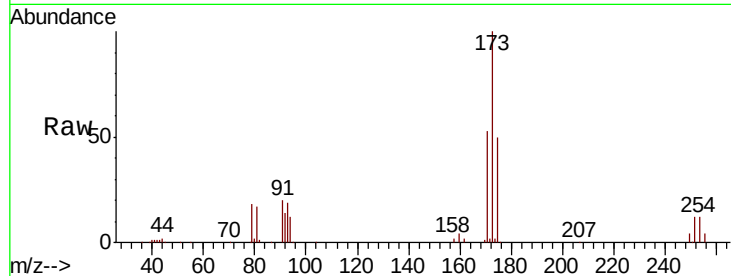
#71
Bromoform
Concen: 20.75 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.4	73.4
254	0.0	0.1	0.1#

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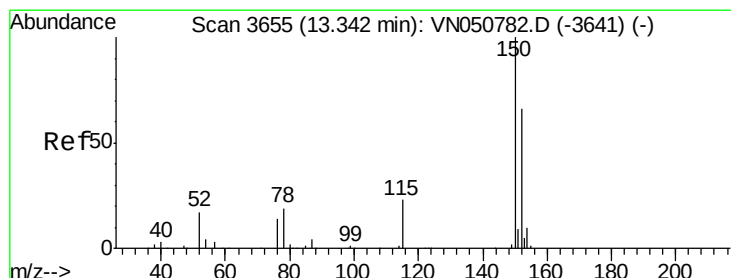
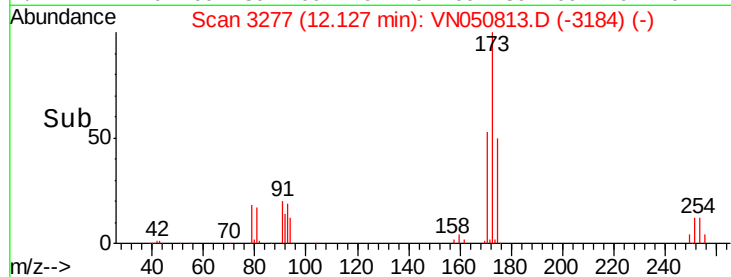
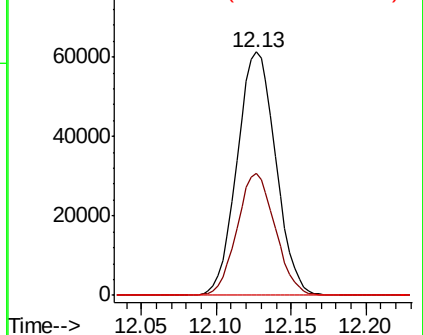


Abundance

Ion 172.70 (172.40 to 173.40): V

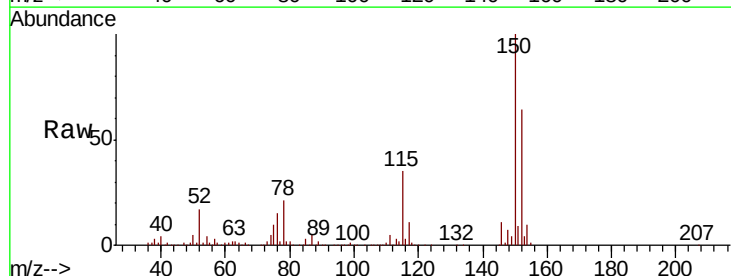
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	27.8	83.4
150	163.2	0.0	351.4

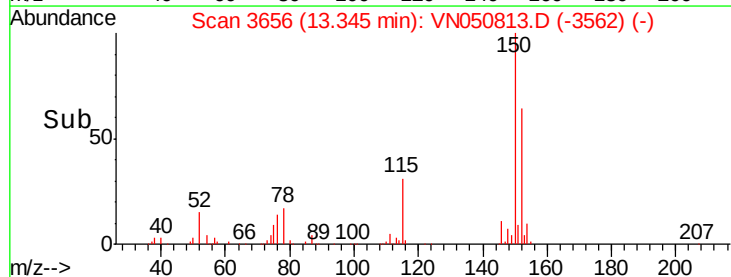
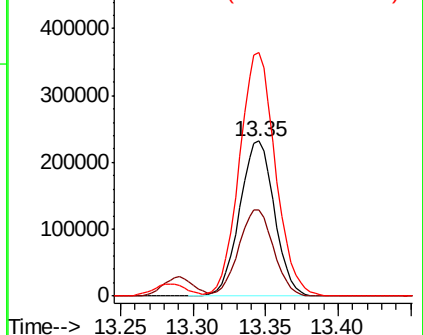


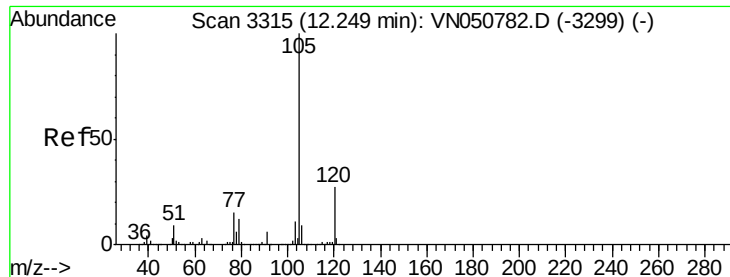
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.39 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion:105 Resp: 681647

Ion Ratio Lower Upper

105 100

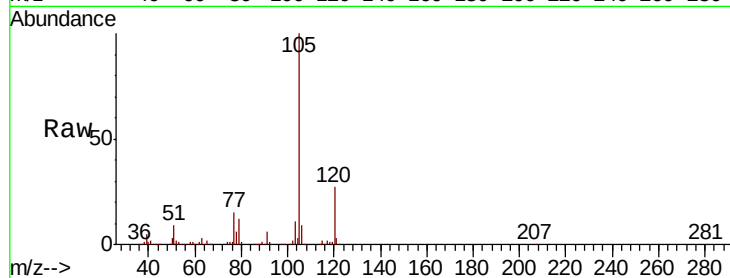
120 26.7 13.5 40.4

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

200000

100000

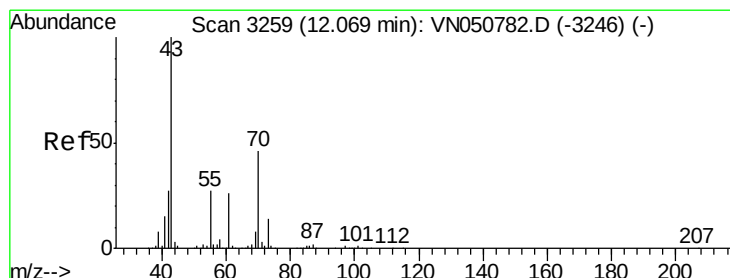
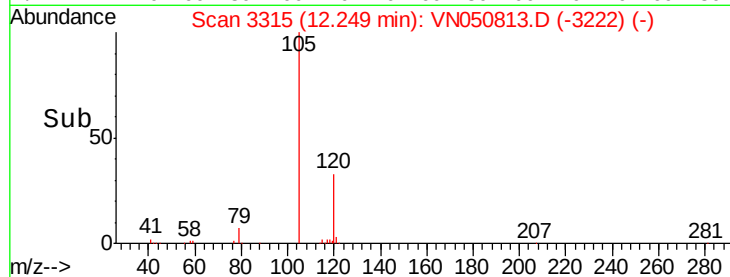
0

12.20

12.25

12.30

Time-->



#74

N-ethyl acetate

Concen: 21.25 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion: 43 Resp: 170175

Ion Ratio Lower Upper

43 100

70 44.1 36.2 54.2

55 28.0 21.8 32.8

61 24.8 20.5 30.7

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

150000

100000

50000

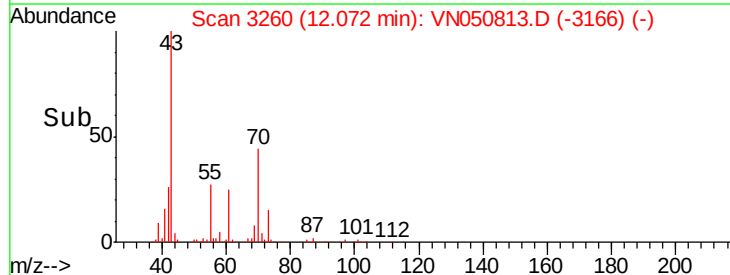
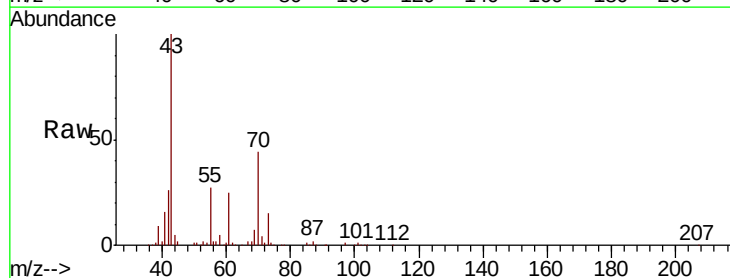
0

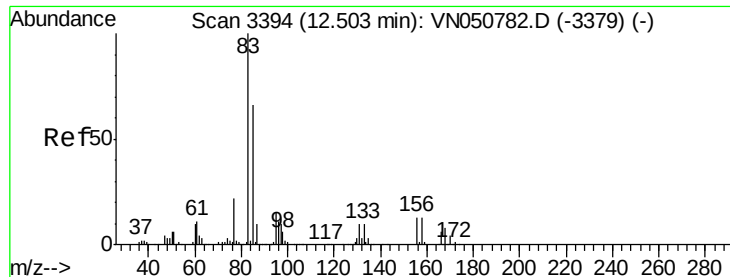
12.00

12.07

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 22.83 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

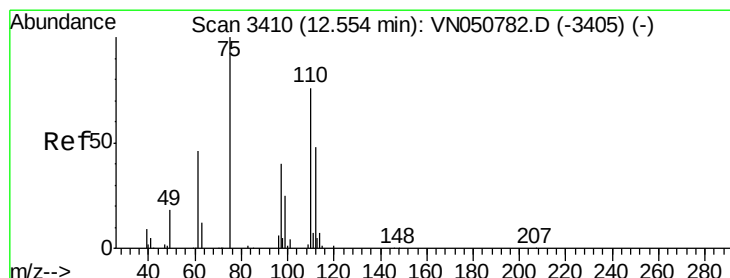
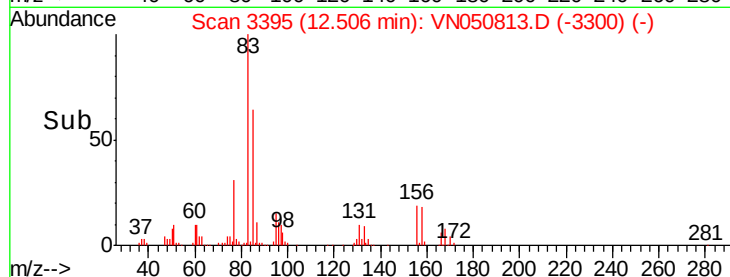
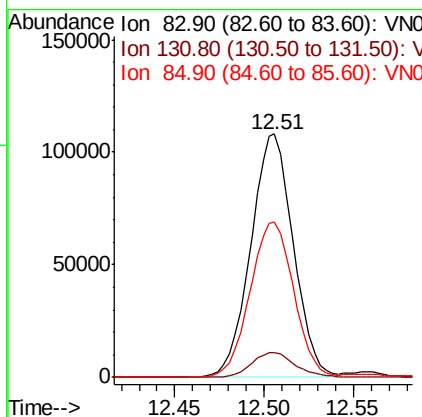
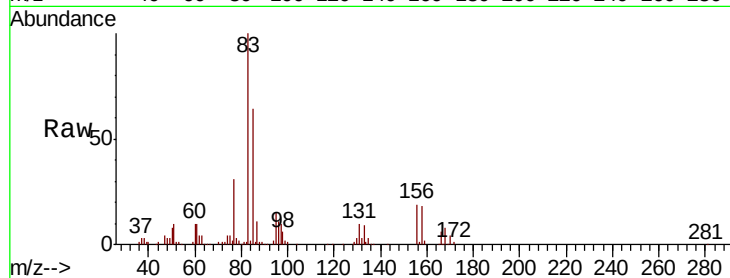
ClientSampled :

VN0822WBS01

Tot Ion:	83	Resp:	180226
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.9
85	65.4	31.9	95.7

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.36 ug/l m

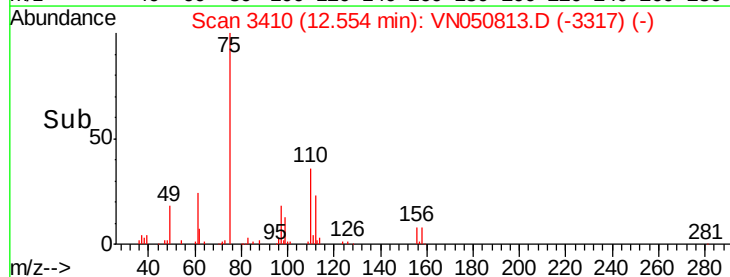
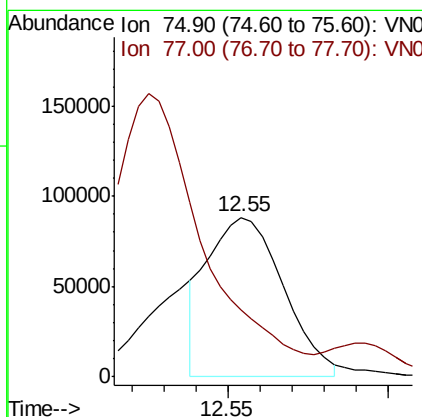
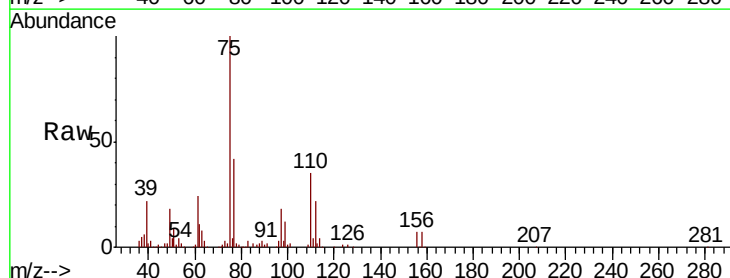
RT: 12.55 min Scan# 3410

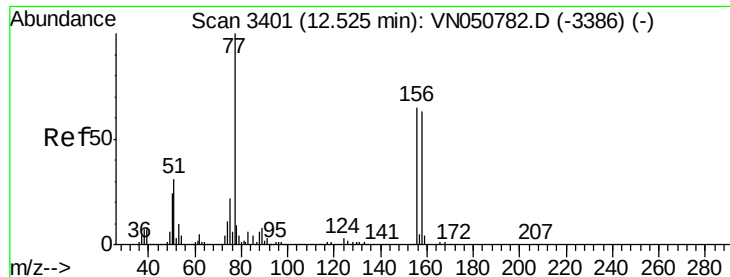
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	75	Resp:	144018
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.36 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

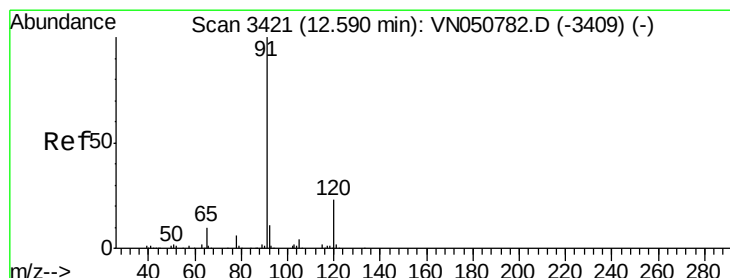
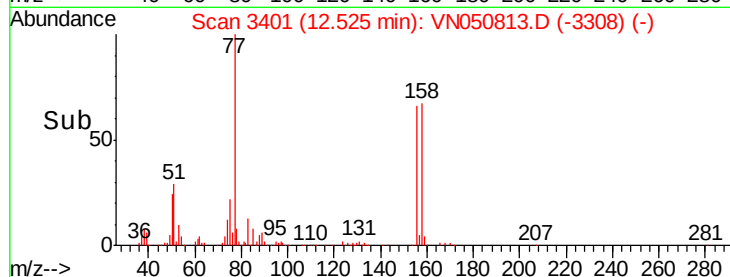
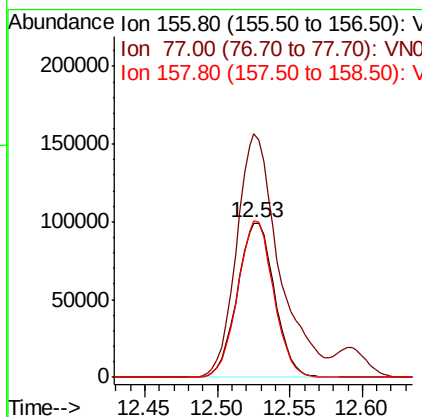
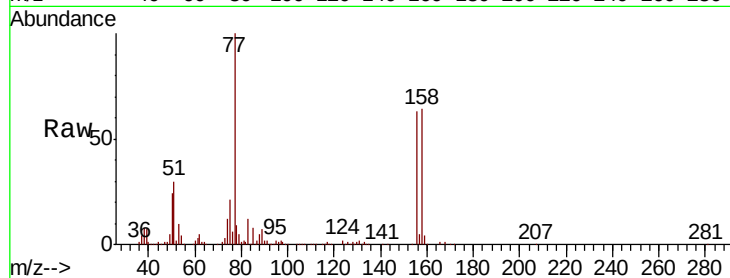
ClientSampleId :

VN0822WBS01

Tot Ion:	156	Resp:	176401
Ion Ratio	Lower	Upper	
156	100		
77	181.9	89.9	269.7
158	97.9	49.3	147.9

Manual Integrations
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#78

n-propylbenzene

Concen: 21.63 ug/l

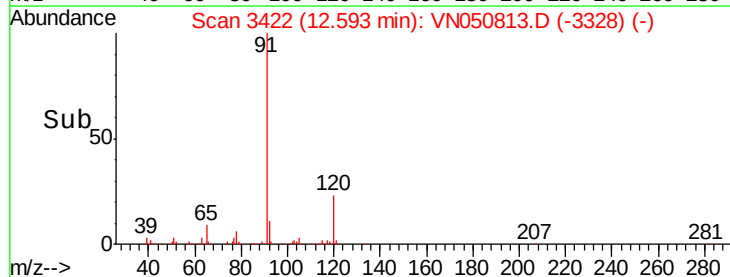
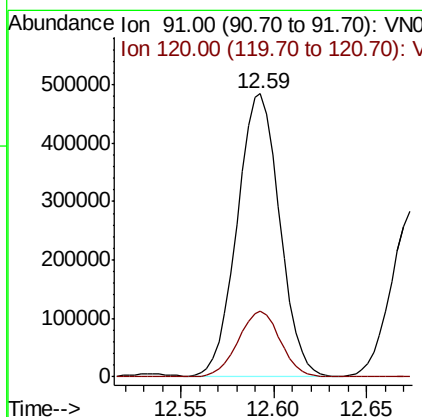
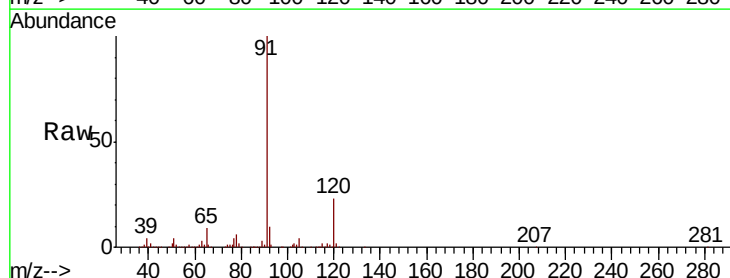
RT: 12.59 min Scan# 3422

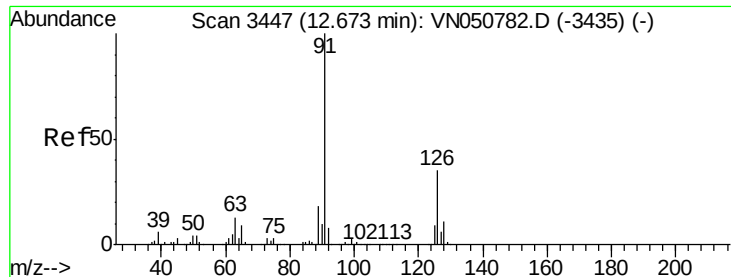
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	91	Resp:	770128
Ion Ratio	Lower	Upper	
91	100		
120	23.2	11.7	35.0





#79

2-Chlorotoluene

Concen: 21.14 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampled :

VN0822WBS01

Tot Ion: 91 Resp: 468828

Ion Ratio Lower Upper

91 100

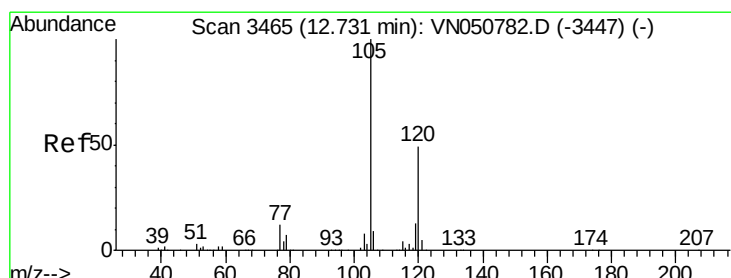
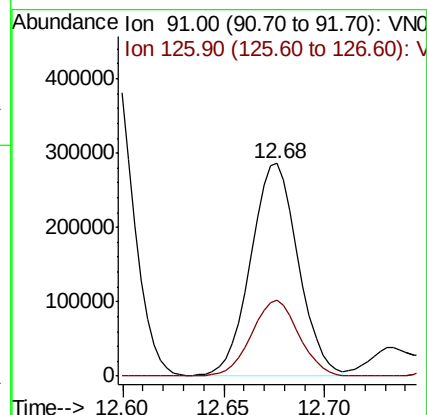
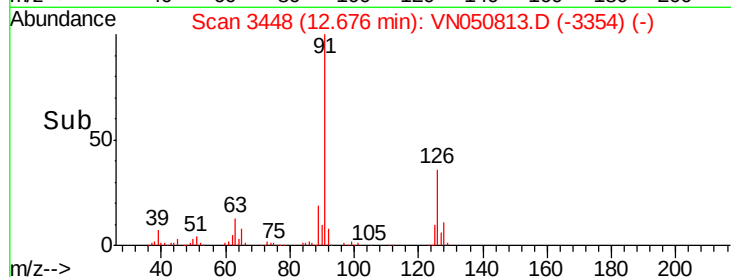
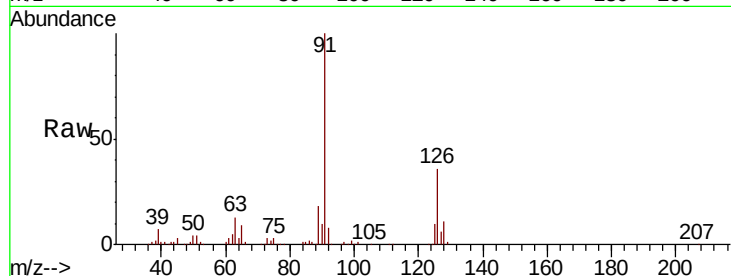
126 35.9 17.8 53.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.89 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050813.D

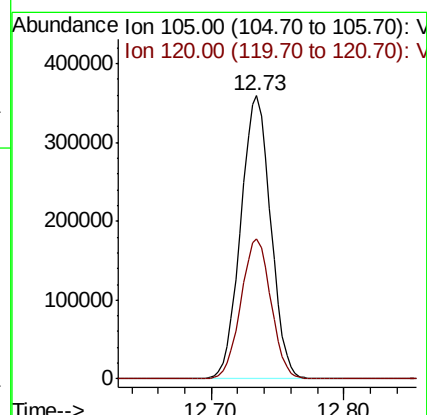
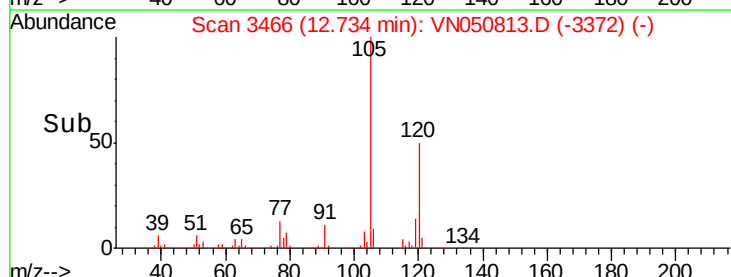
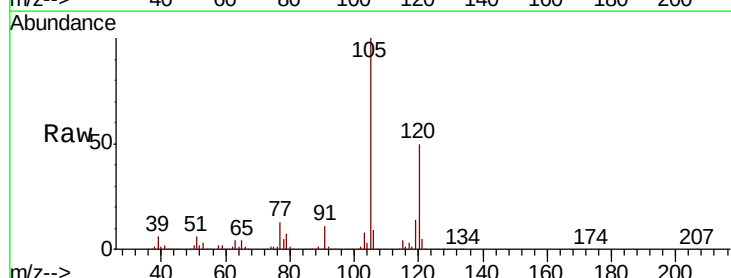
Acq: 22 Aug 2018 12:34

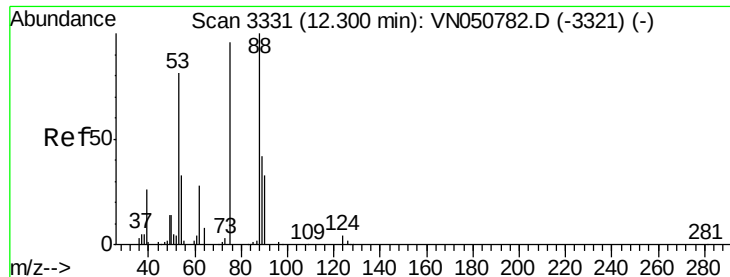
Tgt Ion: 105 Resp: 562883

Ion Ratio Lower Upper

105 100

120 49.6 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.36 ug/l

RT: 12.30 min Scan# 3332

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

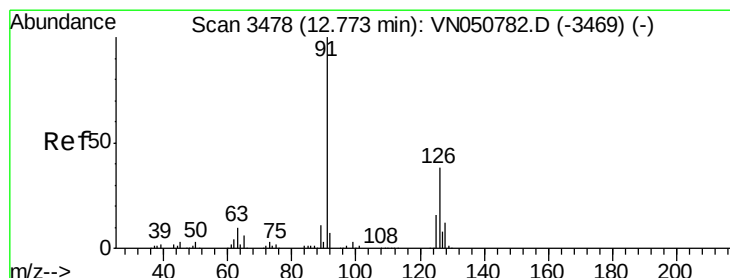
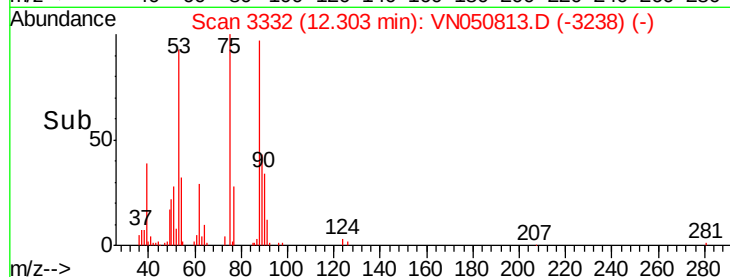
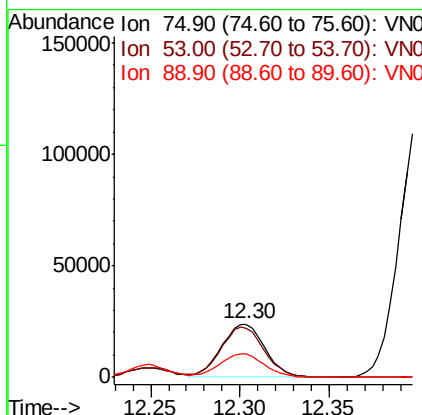
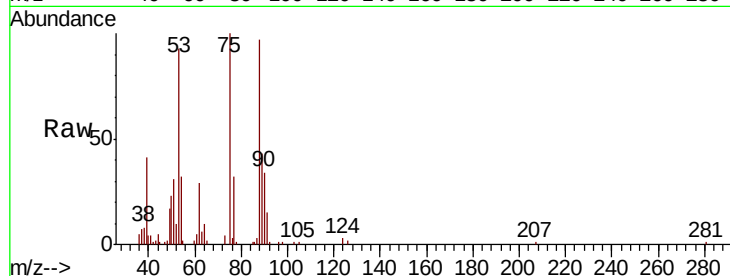
ClientSampled :

VN0822WBS01

Tot Ion:	75	Resp:	40602
Ion	Ratio	Lower	Upper
75	100		
53	94.4	68.9	103.3
89	45.1	36.1	54.1

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.47 ug/l

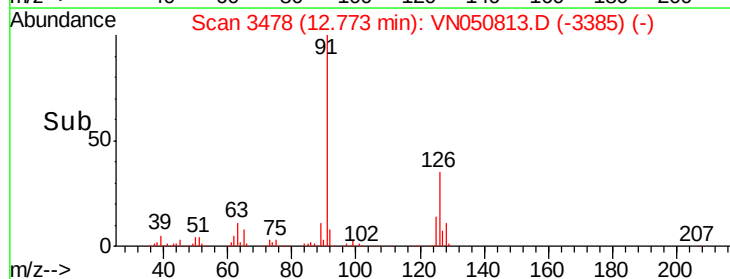
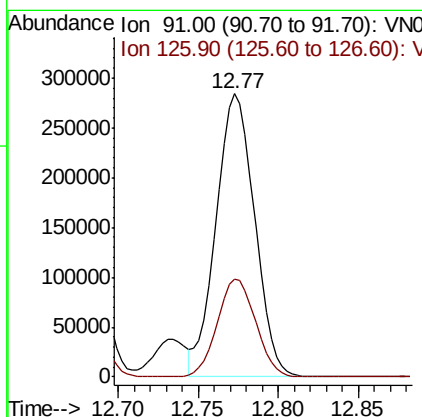
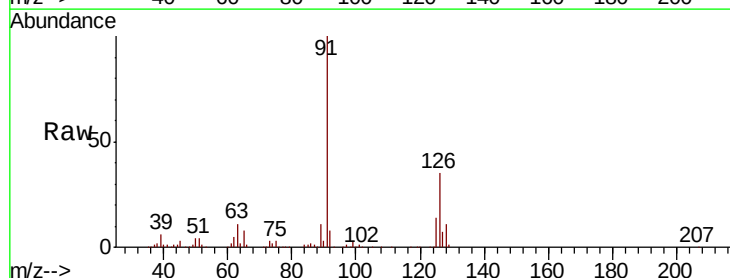
RT: 12.77 min Scan# 3478

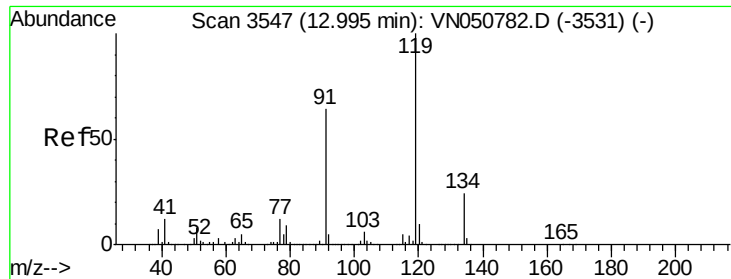
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	91	Resp:	470155
Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.5	52.5





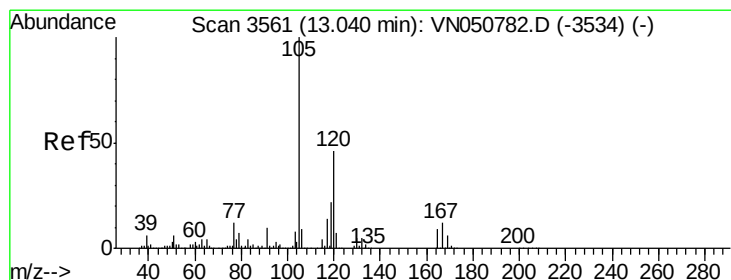
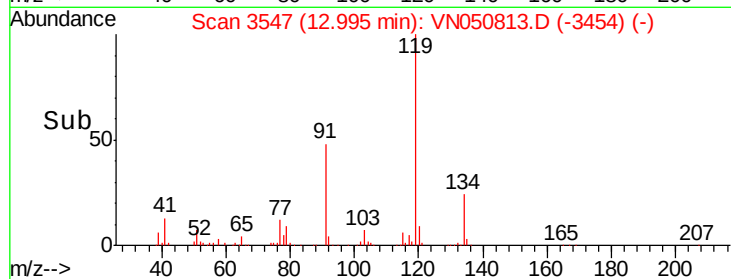
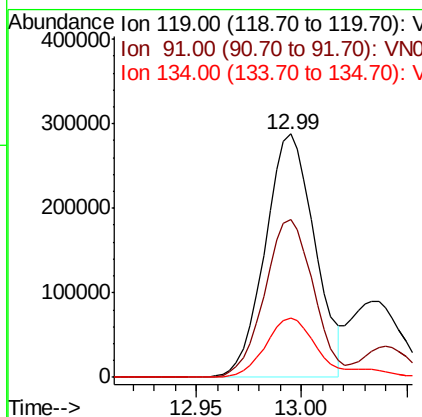
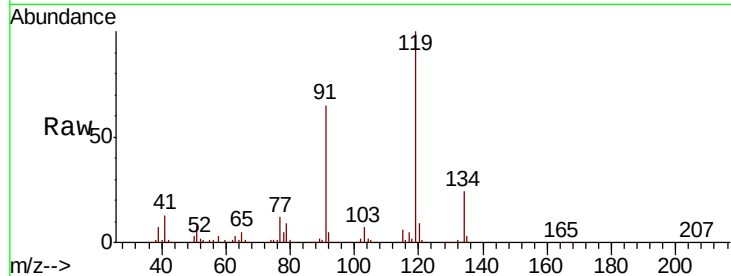
#83
 tert-Butylbenzene
 Concen: 21.15 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	471049		
91	64.1		31.6	94.7
134	24.6		13.4	40.1

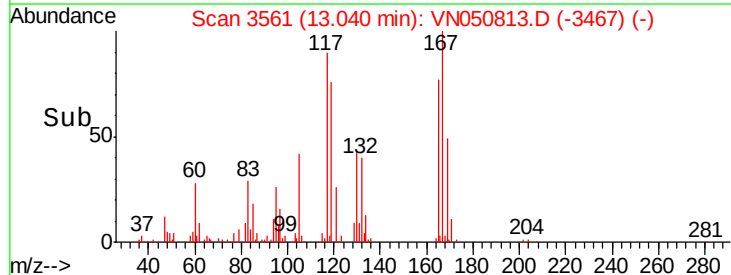
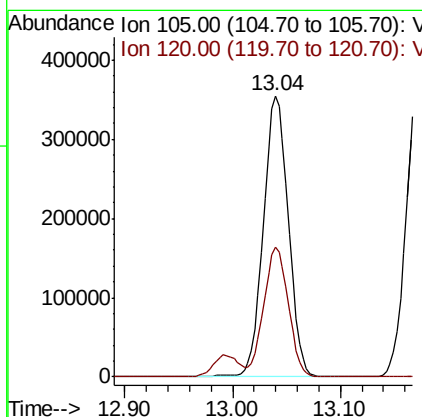
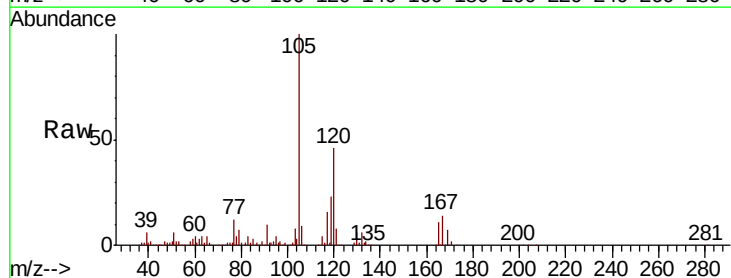
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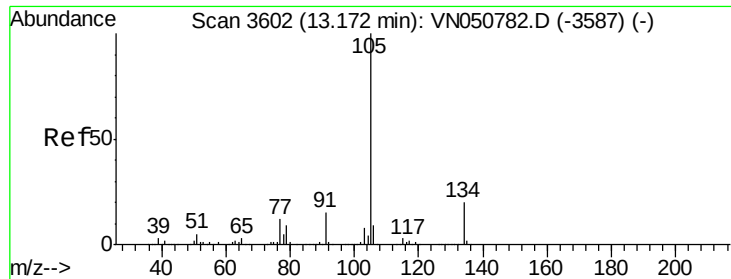
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 22.06 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	570652		
120	45.8		22.9	68.8





#85

sec-Butylbenzene

Concen: 21.46 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

ClientSampleId :

VN0822WBS01

Tot Ion:105 Resp: 626278

Ion Ratio Lower Upper

105 100

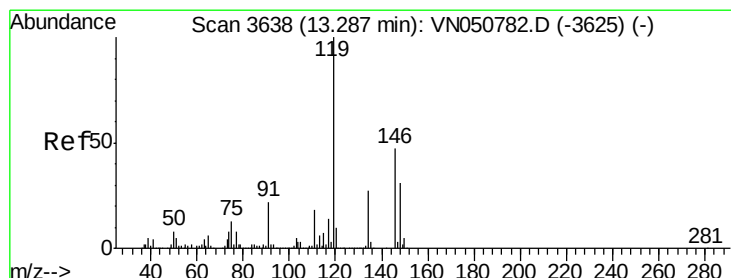
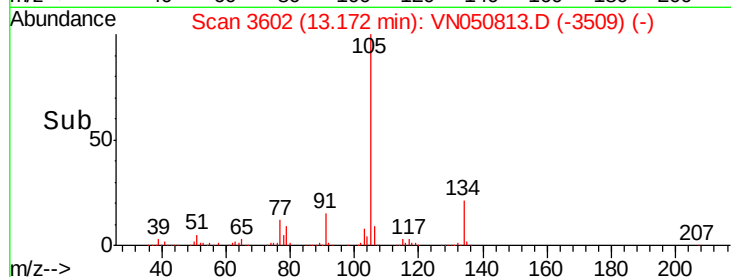
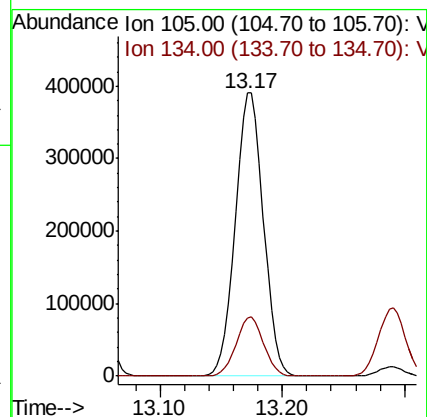
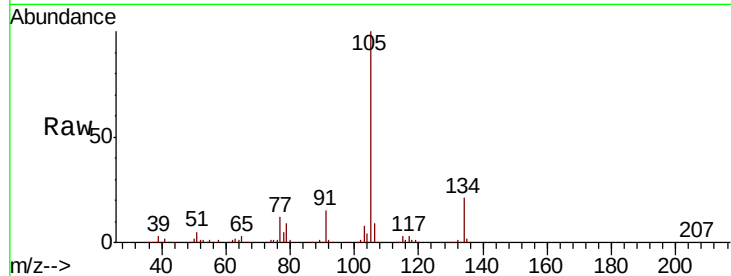
134 20.4 10.3 30.8

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#86

p-Isopropyltoluene

Concen: 21.31 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

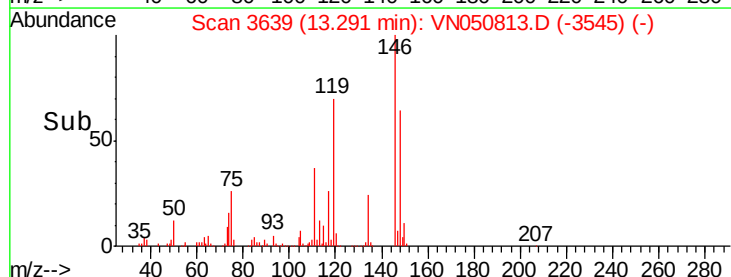
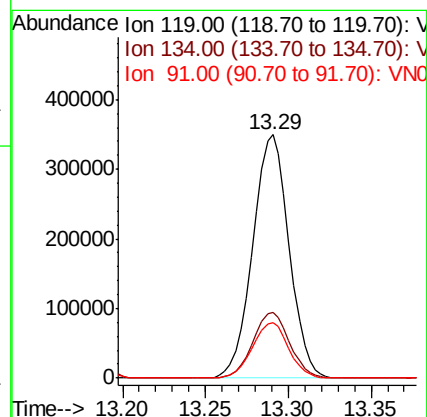
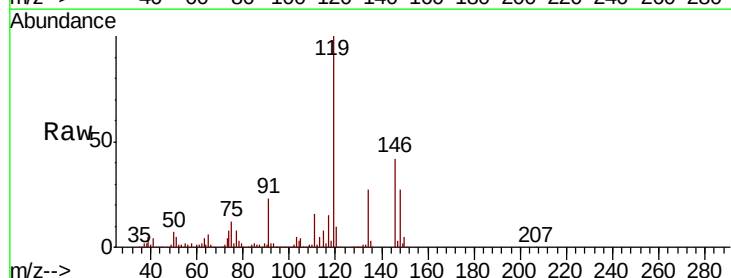
Tgt Ion:119 Resp: 529833

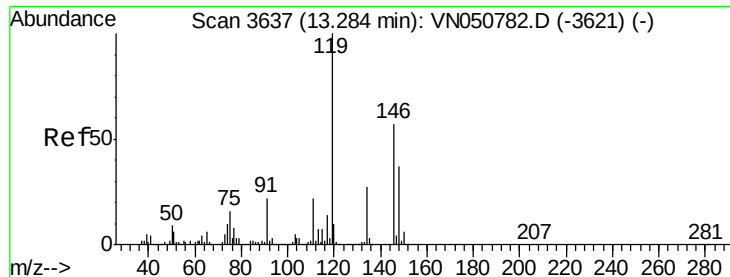
Ion Ratio Lower Upper

119 100

134 27.3 13.7 41.0

91 22.8 11.2 33.5





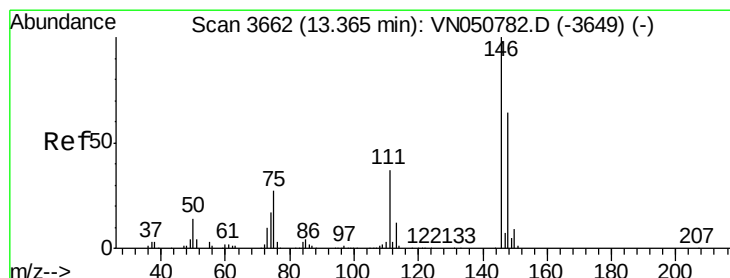
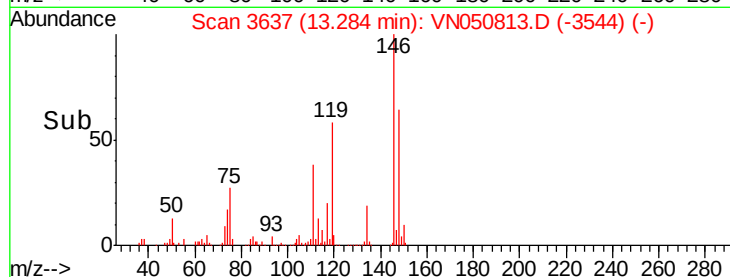
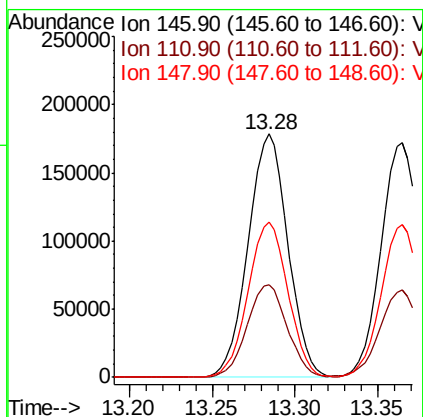
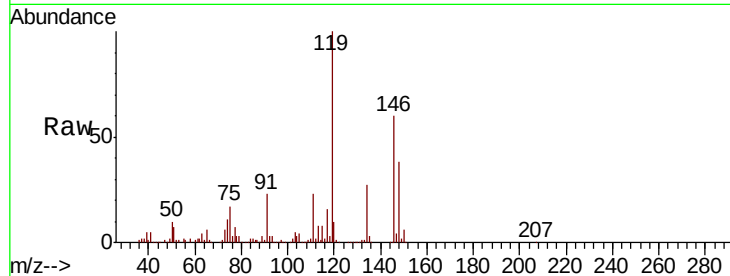
#87
 1,3-Dichlorobenzene
 Concen: 20.25 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	297622		
111	38.3	19.1	57.3	
148	63.9	32.2	96.6	

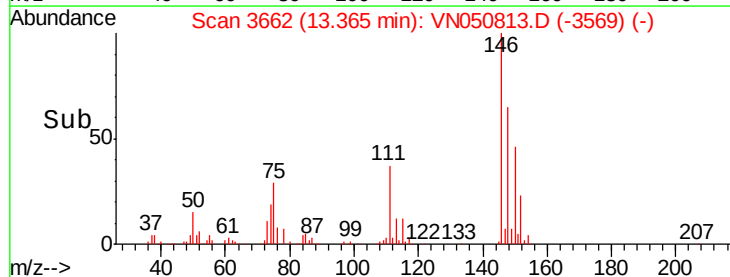
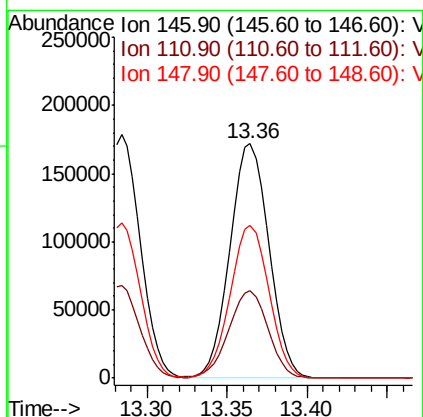
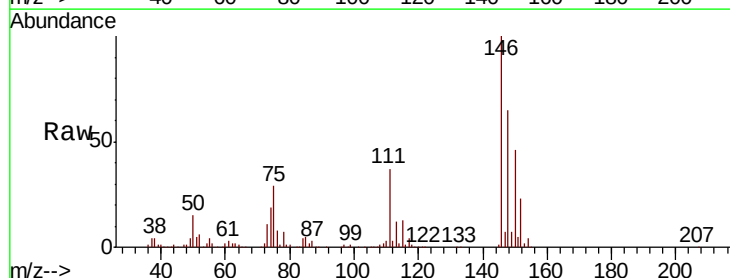
Manual Integrations
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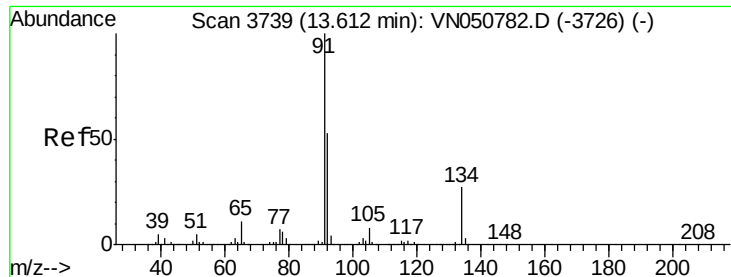
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#88
 1,4-Dichlorobenzene
 Concen: 19.76 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	285803		
111	37.9	18.8	56.3	
148	64.9	32.2	96.6	





#89

n-Butylbenzene

Concen: 19.53 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Instrument :

MSVOA_N

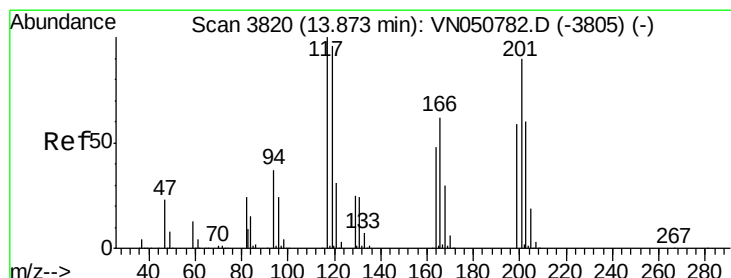
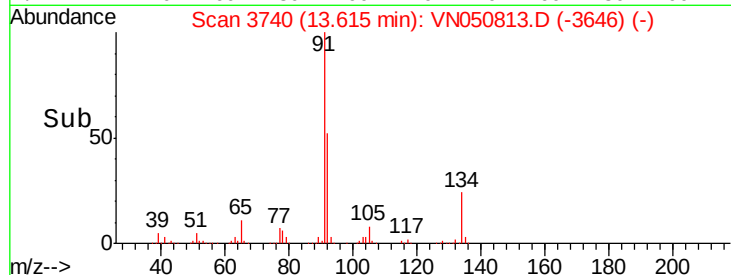
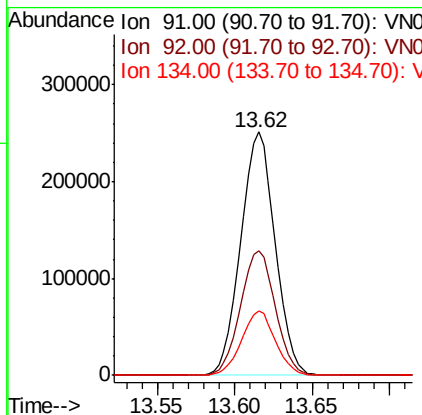
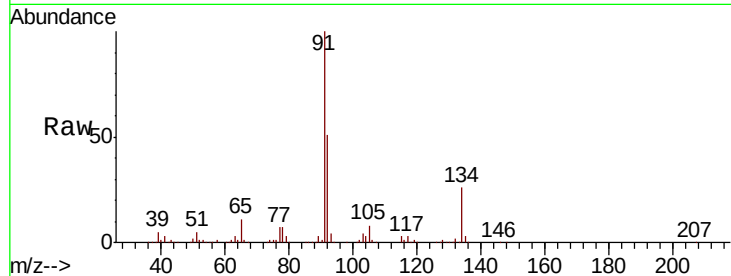
ClientSampleId :

VN0822WBS01

Tot Ion:	91	Resp:	388482
Ion Ratio	Lower	Upper	
91	100		
92	51.9	26.1	78.2
134	25.9	13.2	39.6

Manual Integrations
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#90

Hexachloroethane

Concen: 20.94 ug/l

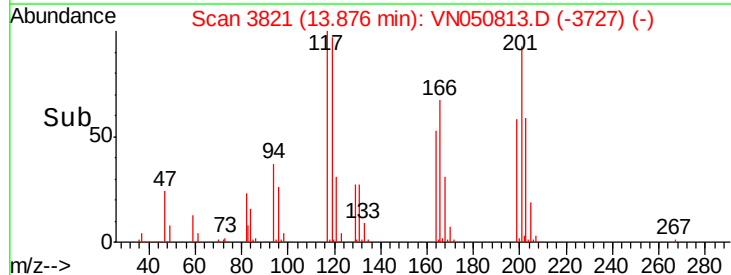
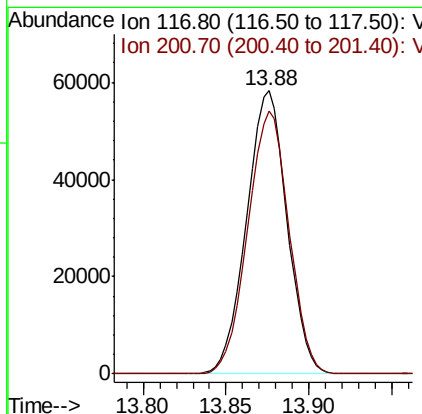
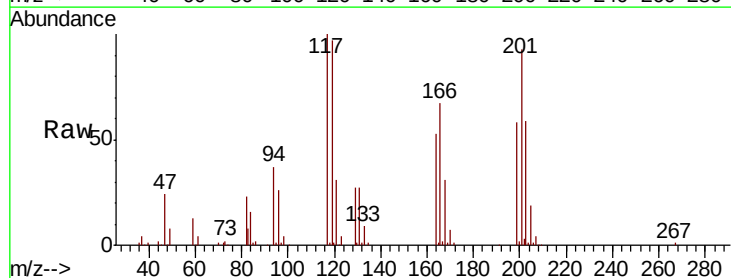
RT: 13.88 min Scan# 3821

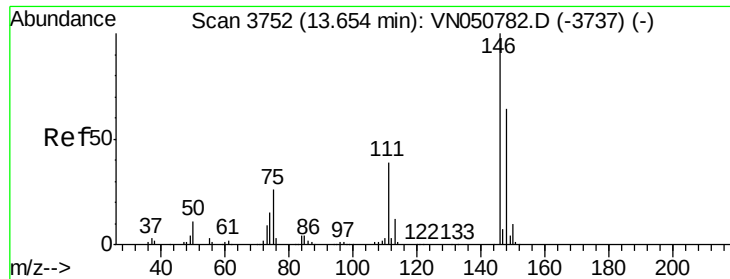
Delta R.T. 0.00 min

Lab File: VN050813.D

Acq: 22 Aug 2018 12:34

Tgt Ion:	117	Resp:	98731
Ion Ratio	Lower	Upper	
117	100		
201	94.5	46.0	137.8





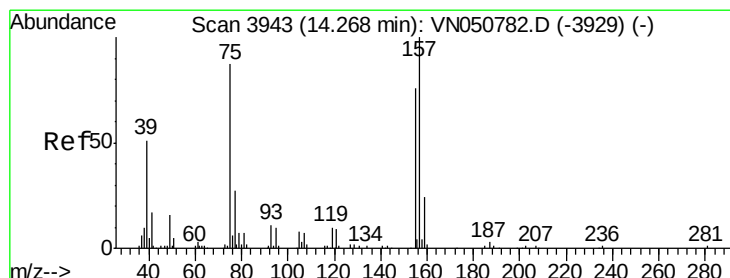
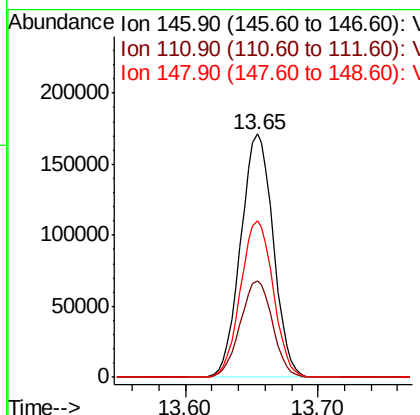
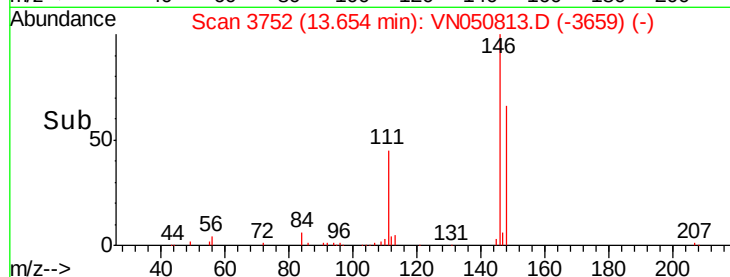
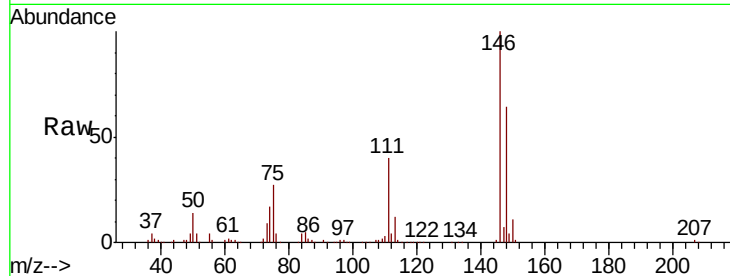
#91
 1,2-Dichlorobenzene
 Concen: 20.56 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0822WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.8	59.3
148	64.6	32.3	96.8

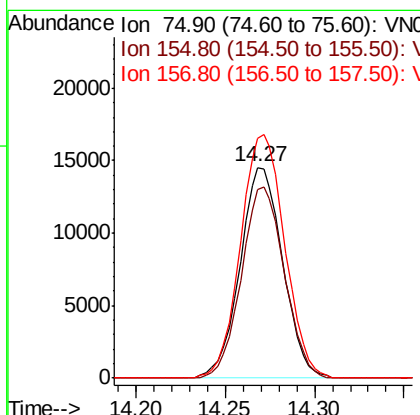
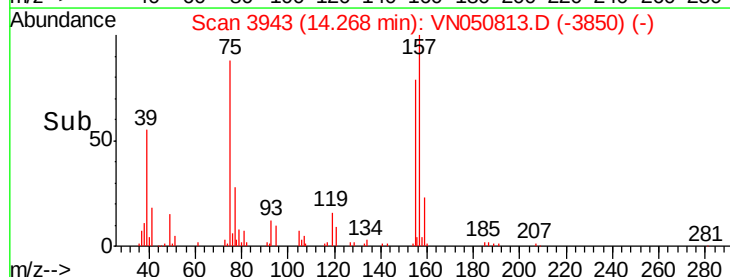
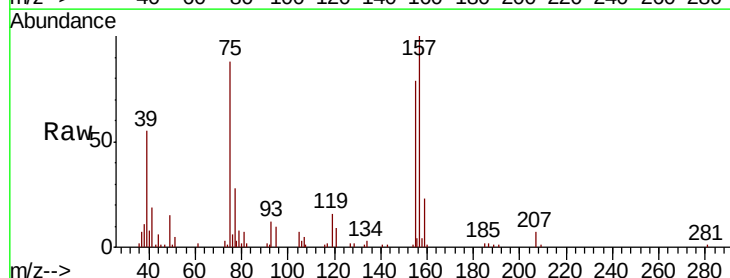
Manual Integrations
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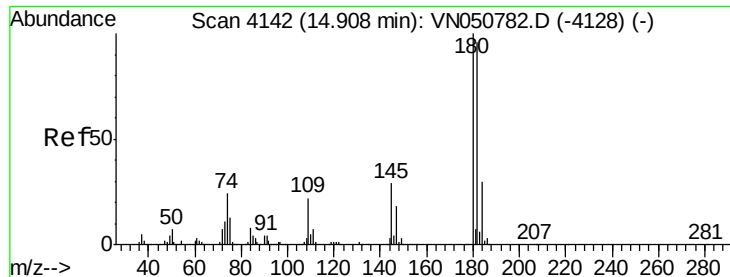
MMDadoda
 8/23/2018 12:26:40 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.15 ug/l
 RT: 14.27 min Scan# 3943
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
75	100		
155	90.9	46.4	139.1
157	119.5	60.7	182.0





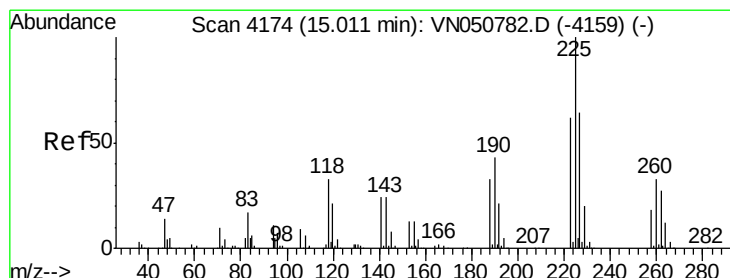
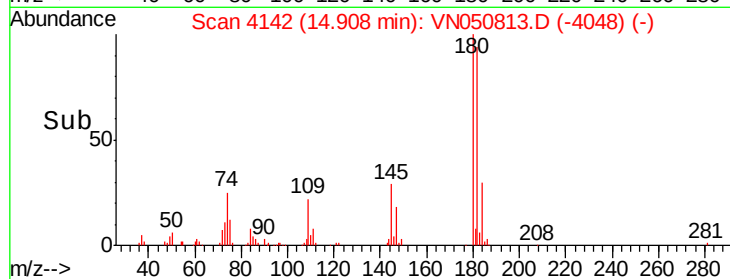
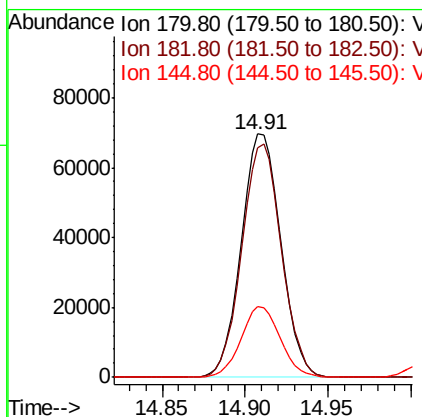
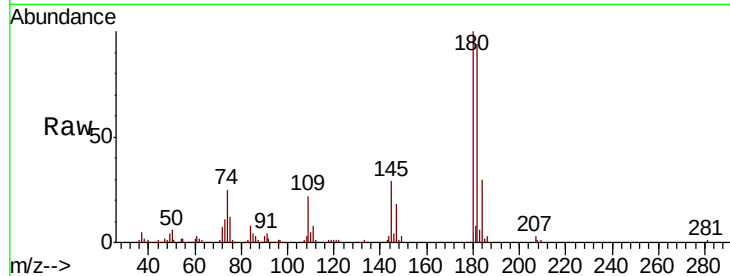
#93
 1,2,4-Trichlorobenzene
 Concen: 18.52 ug/l
 RT: 14.91 min Scan# 4142
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Instrument :
 MSVOA_N
 ClientSampled :
 VN0822WBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	115989		
182	95.9	48.2	144.6	
145	28.8	14.1	42.2	

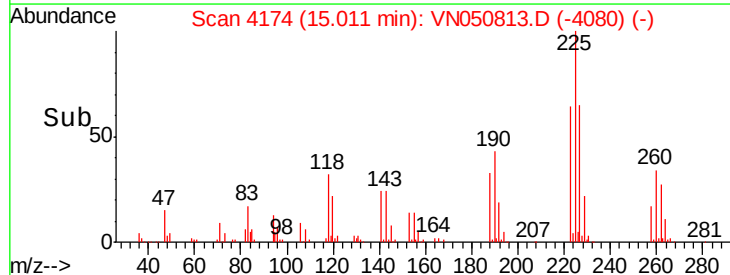
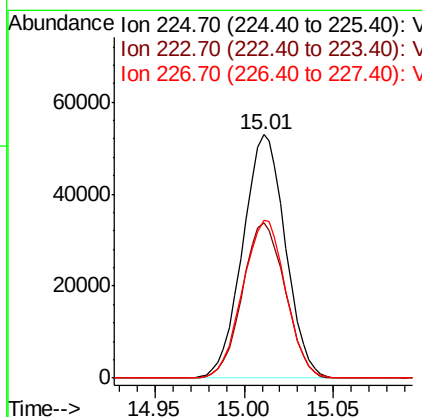
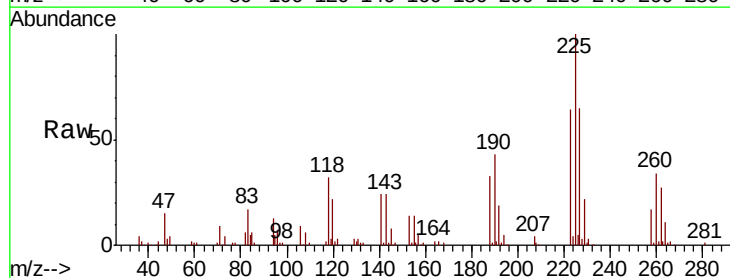
Manual Integrations
 APPROVED

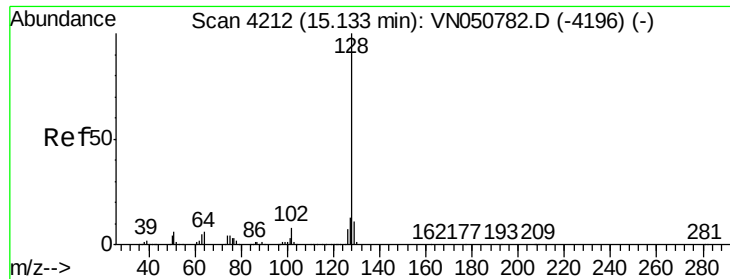
MMDadoda
 8/23/2018 12:26:40 PM



#94
 Hexachlorobutadiene
 Concen: 20.39 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050813.D
 Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	88499		
223	64.3	31.3	93.8	
227	65.5	32.0	96.2	





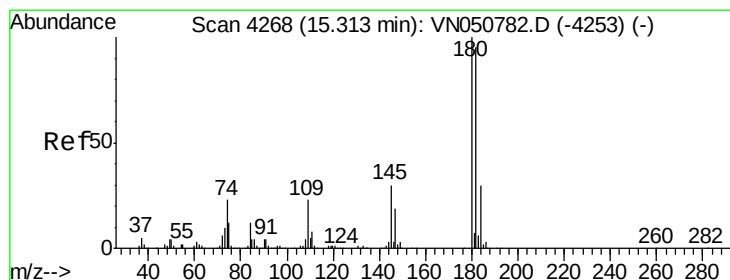
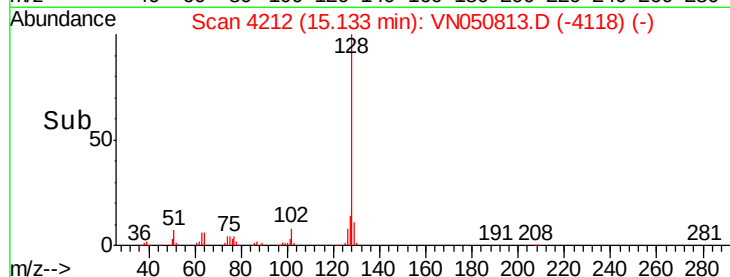
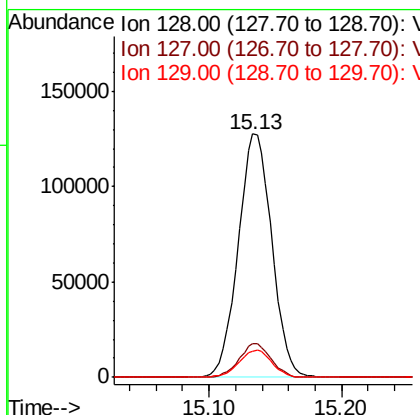
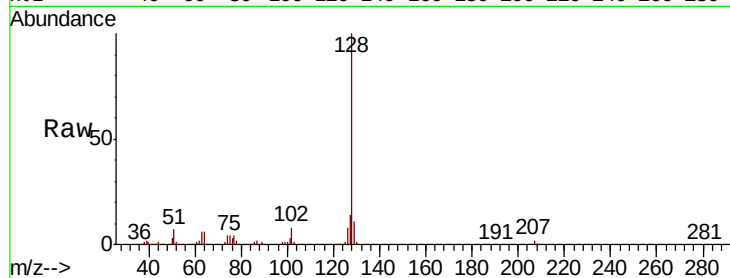
#95
Naphthalene
Concen: 18.40 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Instrument :
MSVOA_N
ClientSampleId :
VN0822WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/23/2018 12:26:40 PM



#96
1,2,3-Trichlorobenzene
Concen: 19.26 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050813.D
Acq: 22 Aug 2018 12:34

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.6	48.0	144.2
145	30.4	15.2	45.6

