

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
 Data File : VN051825.D
 Acq On : 12 Oct 2018 9:03
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/15/2018 11:27:49 AM

Quant Time: Oct 12 10:18:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 12 09:34:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	148110	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	842678	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	773964	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	272565	26.90	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	89.67%
60) 4-Bromofluorobenzene	12.40	95	342314	29.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.63%
63) Toluene-d8	10.09	98	990036	26.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	89.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	284442	39.51	ug/l	100
3) Chloromethane	2.06	50	313763	25.05	ug/l	98
4) Vinyl Chloride	2.18	62	465425	34.55	ug/l	99
5) Bromomethane	2.56	94	407236	46.50	ug/l	89
6) Chloroethane	2.70	64	335353	40.17	ug/l	99
7) Trichlorofluoromethane	3.01	101	661750	37.56	ug/l	94
8) Diethyl Ether	3.41	74	190974	36.55	ug/l	75
9) 1,1,2-Trichlorotrifluoroet	3.76	101	375624	42.20	ug/l #	40
10) 1,1-Dichloroethene	3.73	96	344261	42.32	ug/l	87
11) Methyl Iodide	3.95	142	520256	42.83	ug/l	95
12) Methyl Acetate	4.33	43	223000	31.41	ug/l	93
13) Acrolein	3.61	56	62262	64.28	ug/l	91
14) Acrylonitrile	4.99	53	485695	167.04	ug/l #	61
15) Acetone	3.82	58	117255	165.36	ug/l	97
16) Carbon Disulfide	4.05	76	909821	35.47	ug/l	98
17) Allyl chloride	4.33	41	417298	29.25	ug/l	78
18) Methylene Chloride	4.55	84	385221	39.57	ug/l	91
19) trans-1,2-Dichloroethene	5.04	96	396433	44.76	ug/l	85
20) Diisopropyl ether	5.96	45	924737	31.86	ug/l #	82
21) 1,1-Dichloroethane	5.85	63	640745	37.01	ug/l #	96
22) cis-1,2-Dichloroethene	6.83	96	466687	46.93	ug/l #	82
23) tert-Butyl Alcohol	4.79	59	126071	231.80	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	1006442	45.37	ug/l #	66
25) Chloroform	7.37	83	767423	44.31	ug/l	95
26) Cyclohexane	7.65	56	545161	37.06	ug/l #	72
29) 1,1-Dichloropropene	7.79	75	559795	40.02	ug/l	95
30) 2-Butanone	6.84	43	566115	159.19	ug/l #	86
31) 2,2-Dichloropropane	6.83	77	652617	43.77	ug/l #	78
32) 1,1,1-Trichloroethane	7.57	97	732662	45.87	ug/l	95
33) Carbon Tetrachloride	7.78	117	668189	45.83	ug/l	91
34) Benzene	8.04	78	1649027	39.60	ug/l #	61
35) Methacrylonitrile	7.19	41	151686m	33.78	ug/l	
36) 1,2-Dichloroethane	8.13	62	530213	39.51	ug/l	97
37) Trichloroethene	8.84	130	503994	45.87	ug/l	98
38) Methylcyclohexane	9.08	83	708827	44.25	ug/l	79
39) 1,2-Dichloropropane	9.12	63	386907	34.16	ug/l	95
40) Dibromomethane	9.21	93	287651	44.62	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	600452	42.47	ug/l	93
42) Vinyl Acetate	5.90	43	3277685	164.00	ug/l #	89
43) Ethyl Acetate	6.93	43	255865	34.18	ug/l	98
44) Isopropyl Acetate	8.17	43	509405	35.52	ug/l	97
45) 1,4-Dioxane	9.20	88	83083	947.33	ug/l #	74
46) Methyl methacrylate	9.20	41	231777	32.55	ug/l	71
47) n-amyl Acetate	12.07	43	443187	38.89	ug/l #	77
48) t-1,3-Dichloropropene	10.38	75	587851	42.25	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	649827	39.98	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	400870	43.62	ug/l	96
51) Ethyl methacrylate	10.43	69	472808	43.94	ug/l	83
52) 1,3-Dichloropropane	10.71	76	618509	39.87	ug/l	97
53) Dibromochloromethane	10.90	129	495996	46.92	ug/l	96
54) 1,2-Dibromoethane	11.01	107	422998	47.93	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	1031253	192.16	ug/l #	92
56) Bromoform	12.13	173	330002	46.59	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	1323663	165.44	ug/l #	87
59) 2-Hexanone	10.75	43	892802	171.39	ug/l #	89
61) Tetrachloroethene	10.63	164	497609	46.90	ug/l	96
62) Toluene	10.16	91	1962957	42.02	ug/l	98
64) Chlorobenzene	11.43	112	1283958	44.91	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	494992	44.71	ug/l	99
66) Ethyl Benzene	11.51	91	2178279	45.37	ug/l	99
67) m/p-Xylenes	11.62	106	1763724	94.49	ug/l	98
68) o-Xylene	11.95	106	875821	49.37	ug/l	88
69) Styrene	11.96	104	1351405	48.10	ug/l	97
70) Isopropylbenzene	12.25	105	2323015	48.85	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	465481	42.22	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	355006m	37.18	ug/l	
73) Bromobenzene	12.53	156	580533	48.90	ug/l	83
74) n-propylbenzene	12.59	91	2529056	45.93	ug/l	95
75) 2-Chlorotoluene	12.68	91	1476610	45.35	ug/l	93
76) 1,3,5-Trimethylbenzene	12.73	105	1948361	49.54	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	124316	41.76	ug/l	96
78) 4-Chlorotoluene	12.77	91	1475827	45.63	ug/l	91
79) tert-butylbenzene	12.99	119	1755434	51.53	ug/l	95
80) 1,2,4-Trimethylbenzene	13.04	105	1959007	49.38	ug/l	96
81) sec-Butylbenzene	13.17	105	2341171	49.87	ug/l	97
82) p-Isopropyltoluene	13.29	119	2122975	52.34	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	1047885	50.33	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	996295	50.87	ug/l	98
85) n-Butylbenzene	13.62	91	1646347	50.09	ug/l	94
86) Hexachloroethane	13.88	117	364180	45.22	ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	1018776	51.12	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	68428	42.33	ug/l #	69
89) 1,2,4-Trichlorobenzene	14.91	180	492194	51.07	ug/l	98
90) Hexachlorobutadiene	15.01	225	314908	41.56	ug/l	97
91) Naphthalene	15.13	128	978701	55.28	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	482210	49.62	ug/l	92

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ClientSampleId :
VSTDICC050

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QLast Update : Fri Oct 12 09:34:35 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

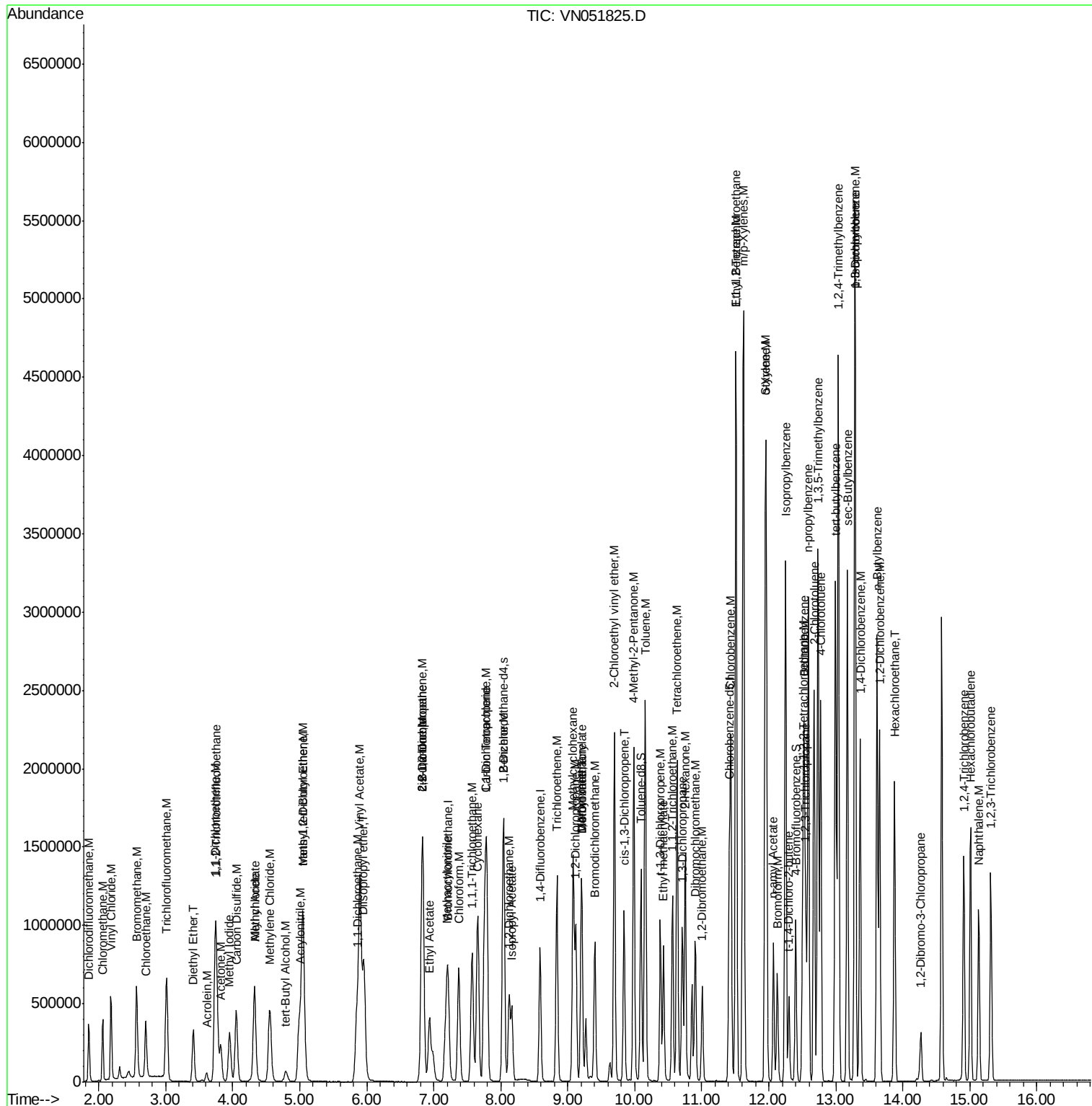
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101218\
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 Acq On : 12 Oct 2018 9:03
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 Sample : VSTDIC050
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 ALS Vial : 4 Sample Multiplier: 28

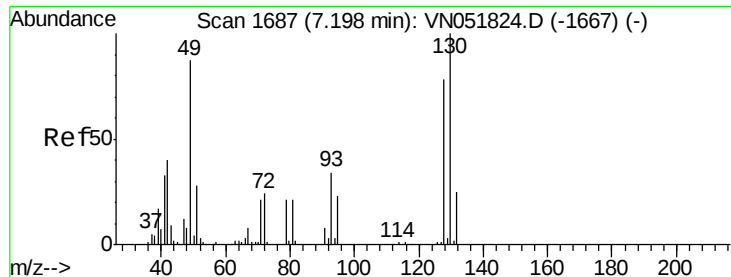
Instrument :
 MSVOA_N
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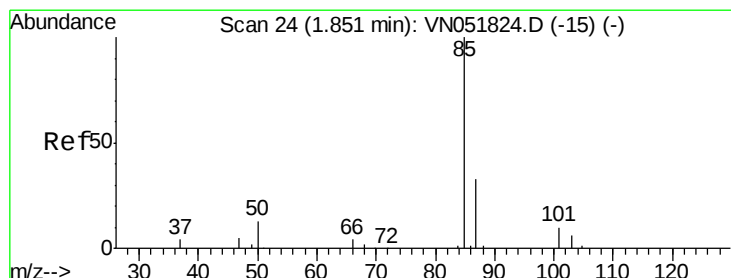
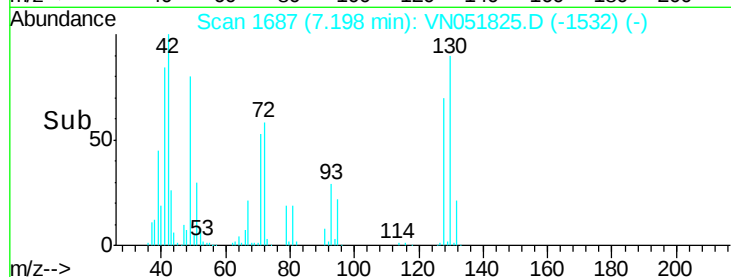
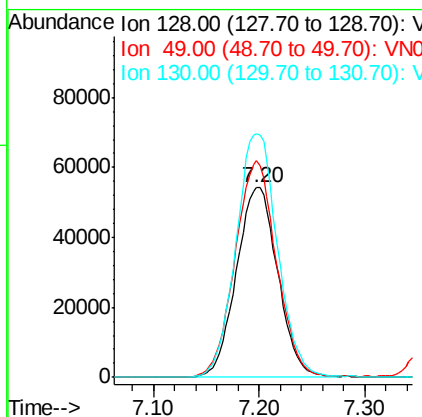
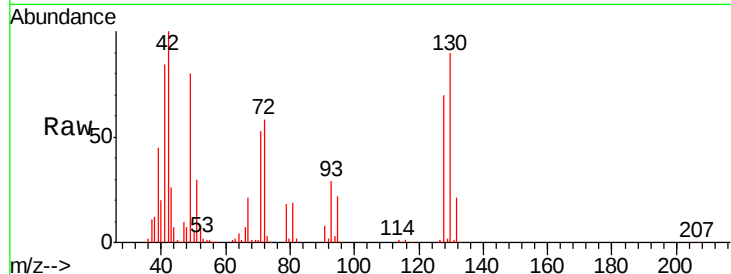
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	148110		
49	114.2	0.0	403.3	
130	129.0	0.0	326.0	

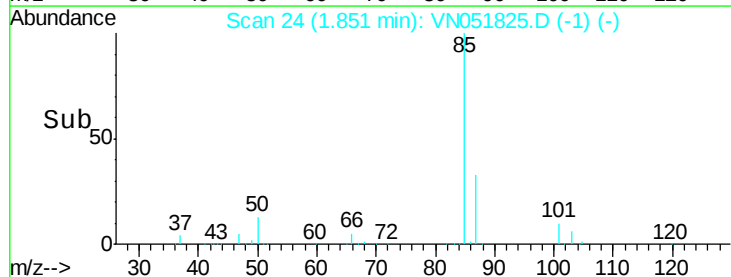
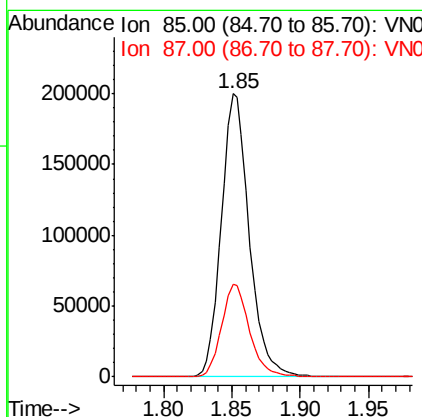
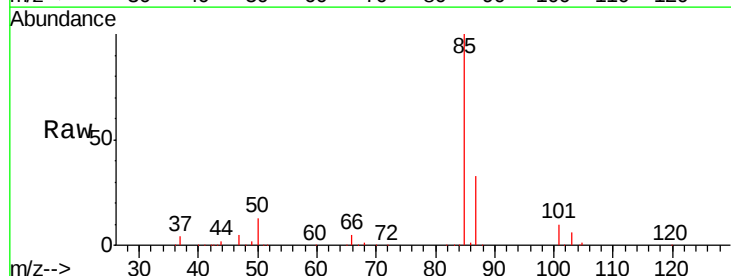
Manual Integrations
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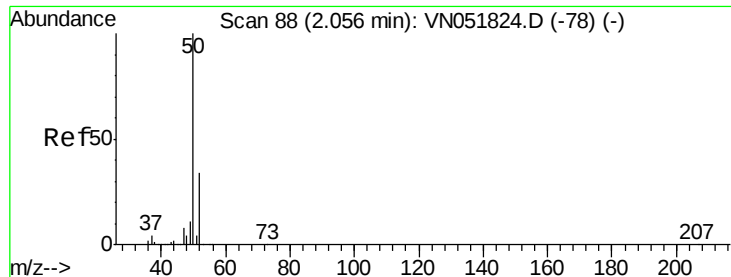
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#2
Dichlorodifluoromethane
Concen: 39.51 ug/l
RT: 1.85 min Scan# 24
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	284442		
87	32.6	16.3	48.8	





#3

Chloromethane

Concen: 25.05 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 50 Resp: 313763

Ion Ratio Lower Upper

50 100

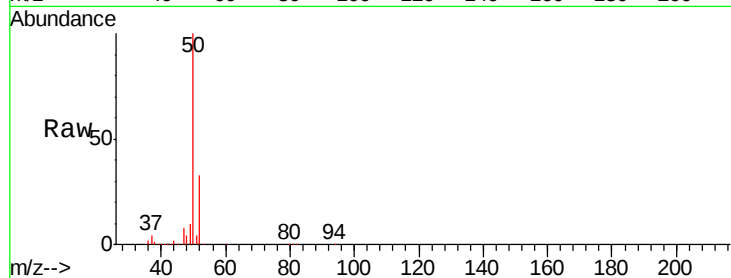
52 33.1 27.2 40.8

Manual Integrations

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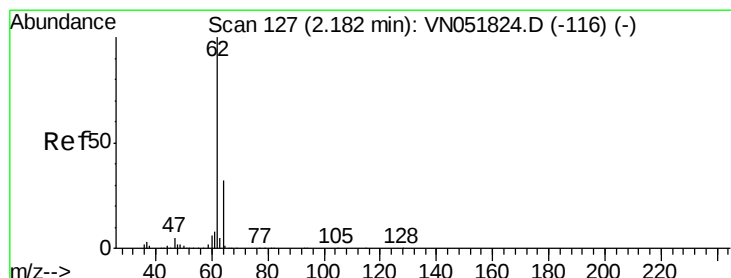
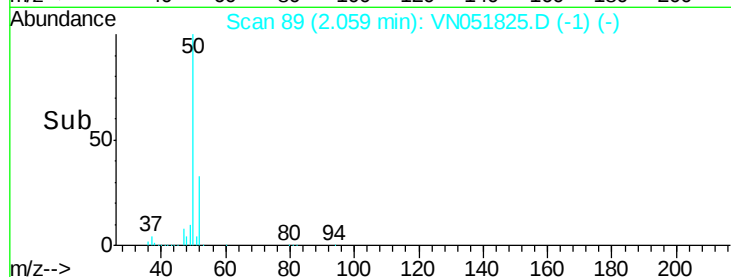
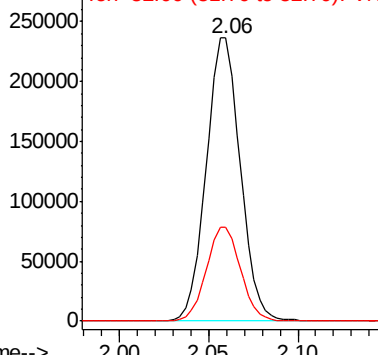
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 34.55 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051825.D

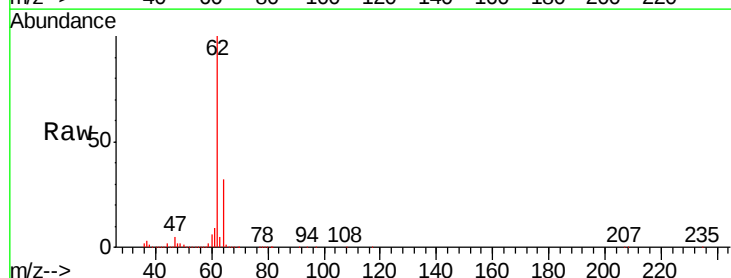
Acq: 12 Oct 2018 9:03

Tgt Ion: 62 Resp: 465425

Ion Ratio Lower Upper

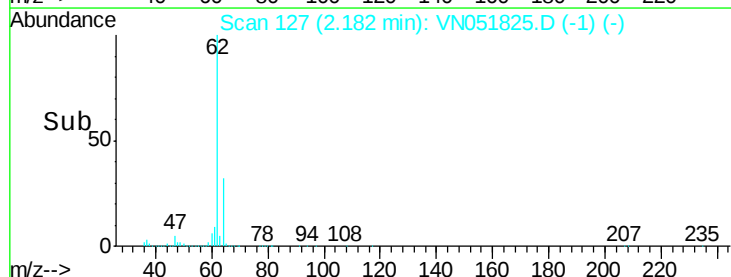
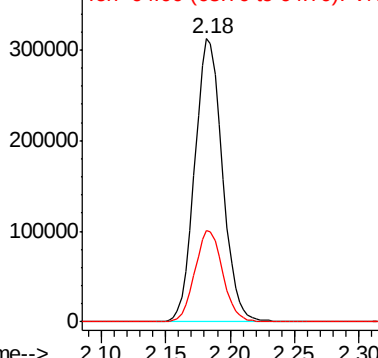
62 100

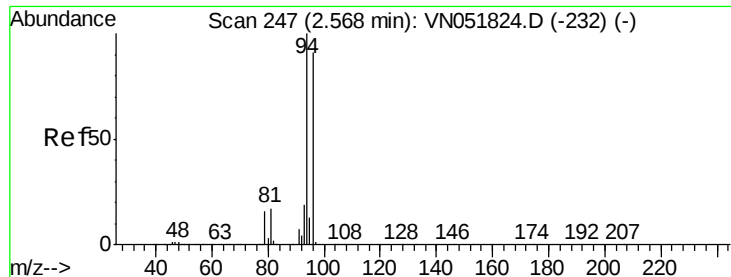
64 32.2 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 46.50 ug/l

RT: 2.56 min Scan# 246

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 94 Resp: 407236

Ion Ratio Lower Upper

94 100

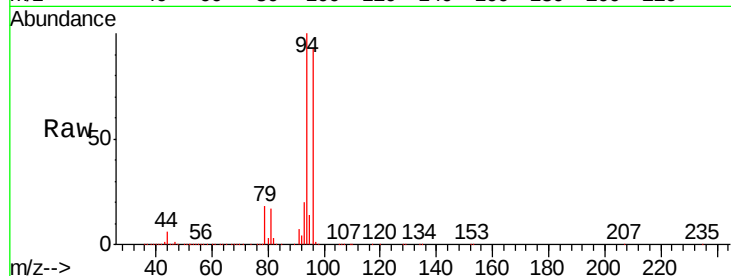
96 93.3 66.4 99.6

Manual Integrations

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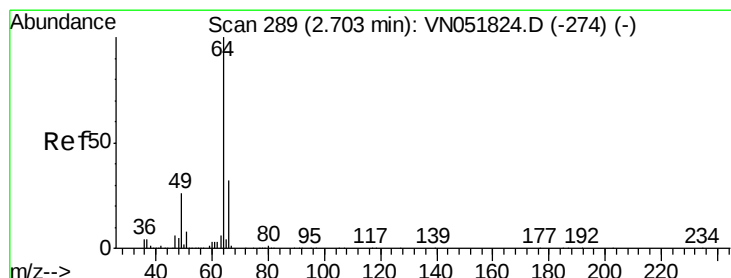
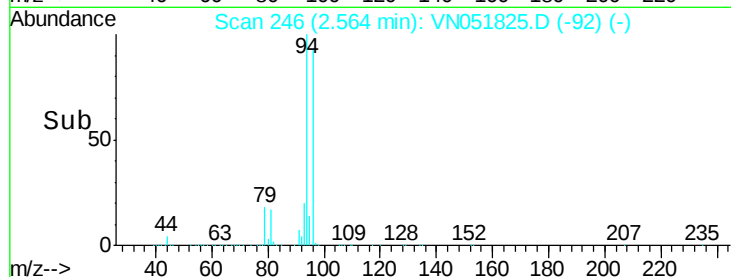
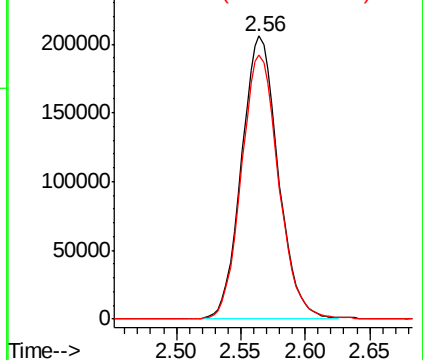
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 40.17 ug/l

RT: 2.70 min Scan# 288

Delta R.T. -0.00 min

Lab File: VN051825.D

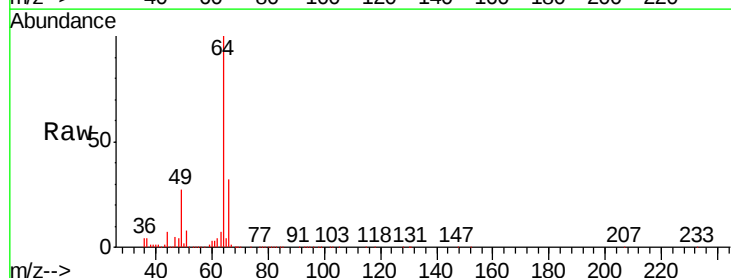
Acq: 12 Oct 2018 9:03

Tgt Ion: 64 Resp: 335353

Ion Ratio Lower Upper

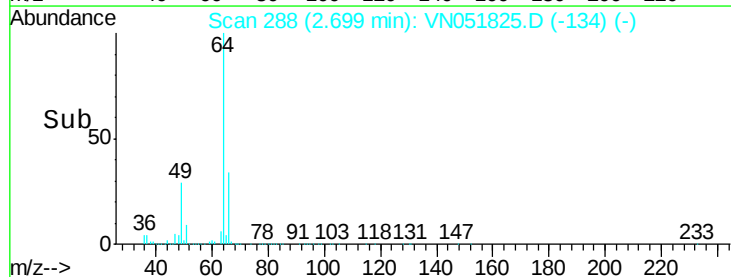
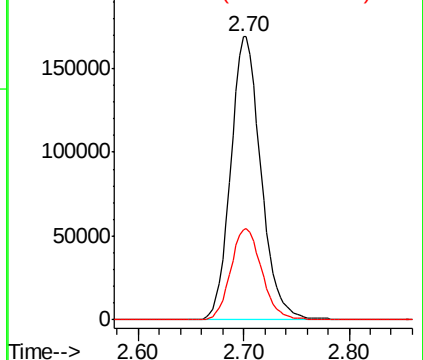
64 100

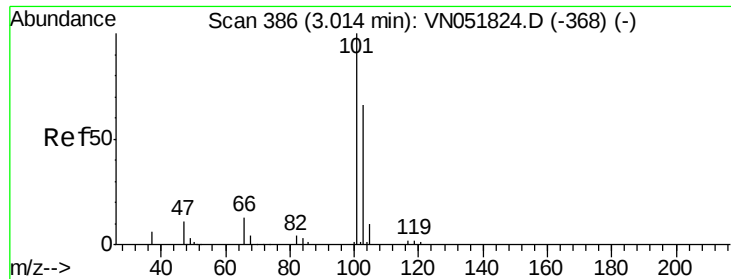
66 31.9 25.8 38.6



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

Trichlorofluoromethane

Concen: 37.56 ug/l

RT: 3.01 min Scan# 385

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 101 Resp: 661750

Ion Ratio Lower Upper

101 100

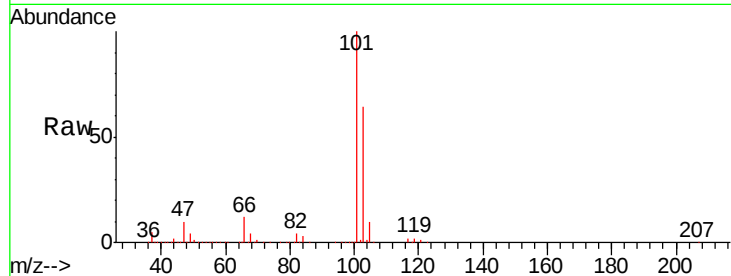
103 63.7 54.8 82.2

Manual Integrations

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

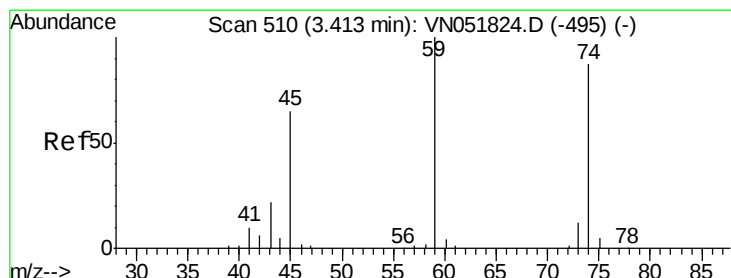
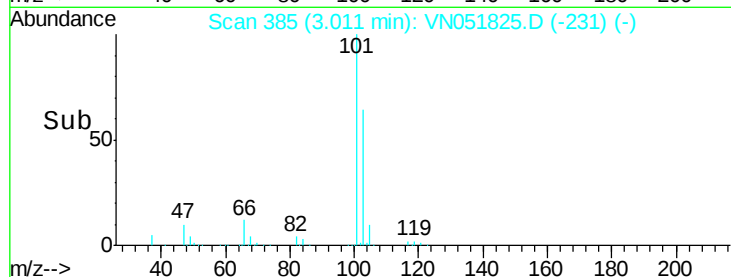
300000

200000

100000

0

Time--> 2.90 2.95 3.00 3.05 3.10



#8

Diethyl Ether

Concen: 36.55 ug/l

RT: 3.41 min Scan# 510

Delta R.T. -0.00 min

Lab File: VN051825.D

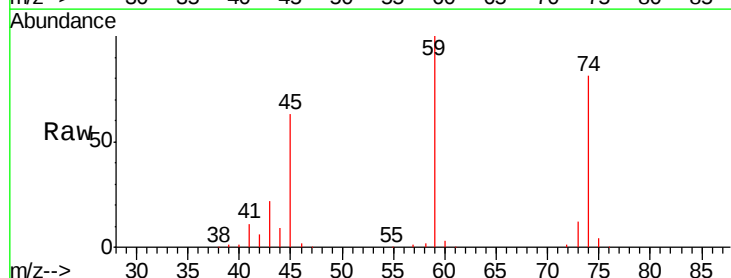
Acq: 12 Oct 2018 9:03

Tgt Ion: 74 Resp: 190974

Ion Ratio Lower Upper

74 100

45 77.6 20.7 186.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

100000

80000

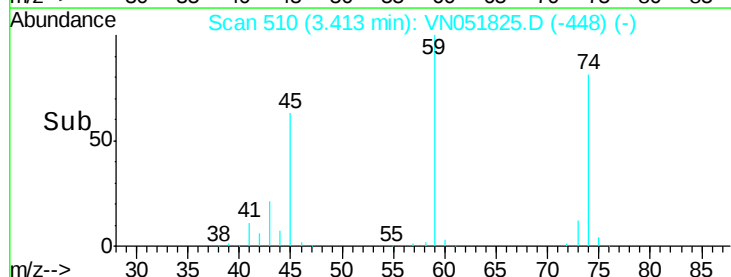
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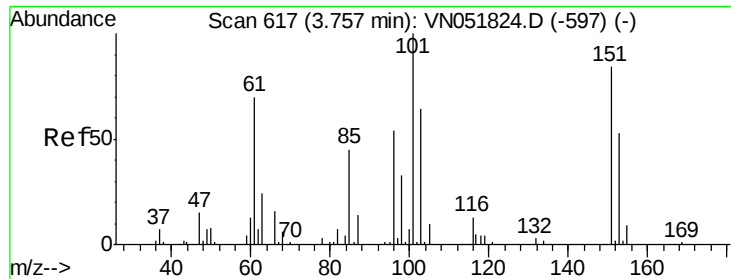
40000

20000

0

Time--> 3.30 3.35 3.40 3.45 3.50





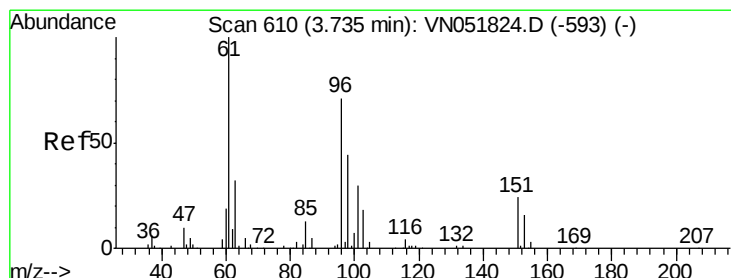
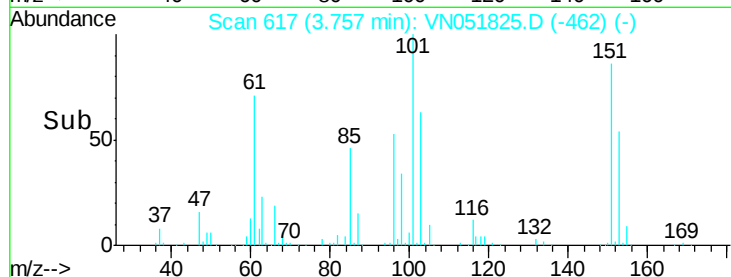
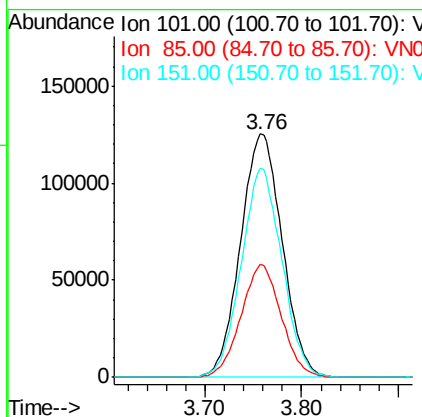
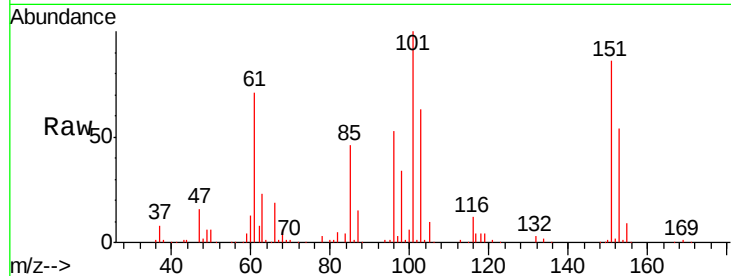
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 42.20 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Resp Lower	Resp Upper
101	100		
85	44.7	0.0	46.0
151	83.8	0.0	82.2

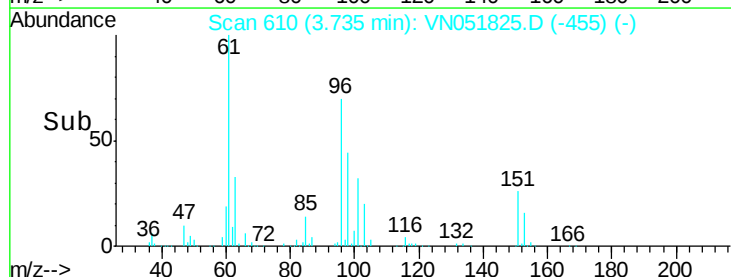
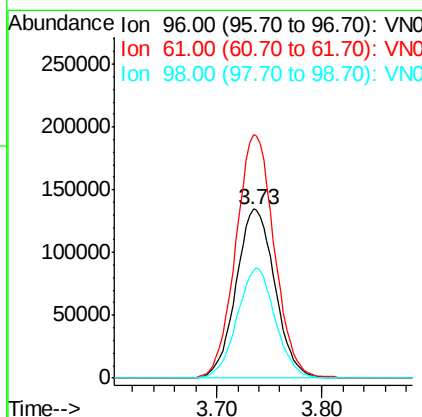
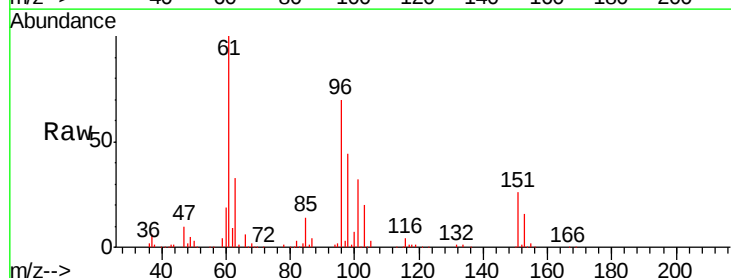
Manual Integrations
 APPROVED

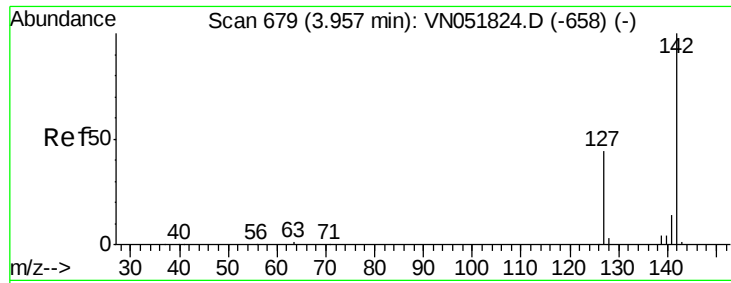
MMDadoda
 10/15/2018 11:27:49 AM



#10
 1,1-Dichloroethene
 Concen: 42.32 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
96	100		
61	143.7	133.0	199.6
98	63.7	52.6	78.8





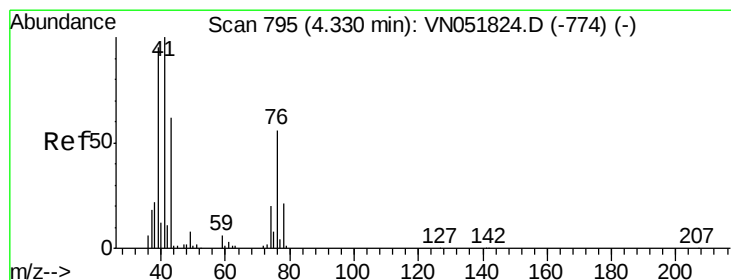
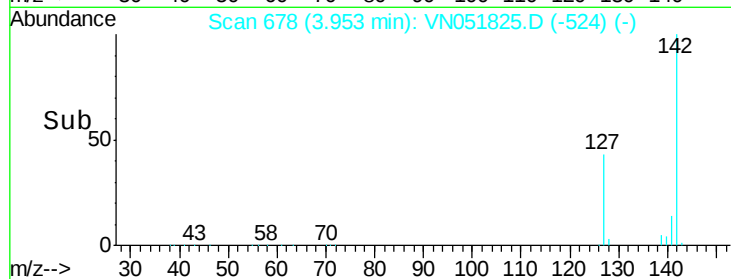
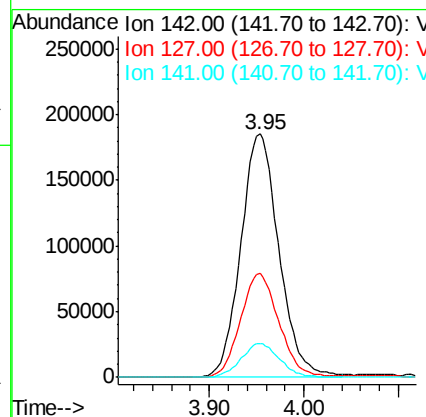
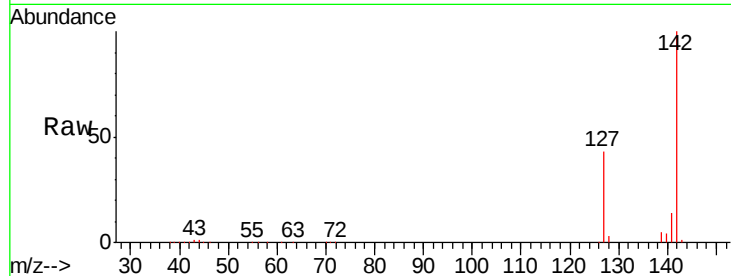
#11
Methyl Iodide
Concen: 42.83 ug/l
RT: 3.95 min Scan# 678
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.5	19.7	59.0
141	14.0	6.3	18.9

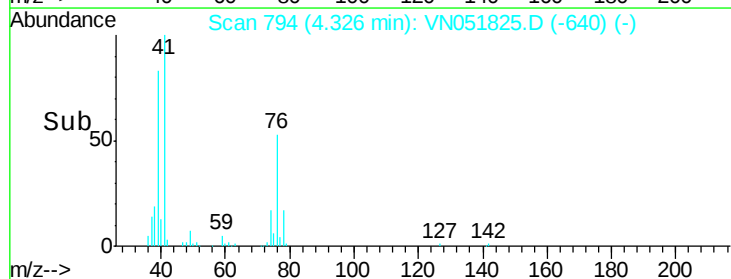
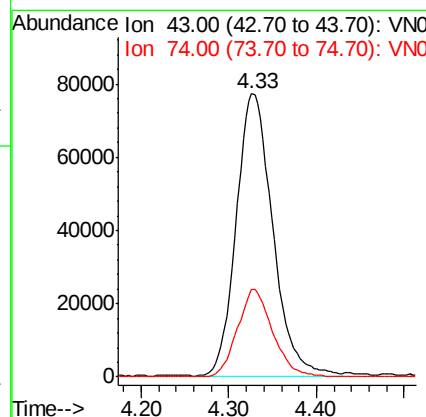
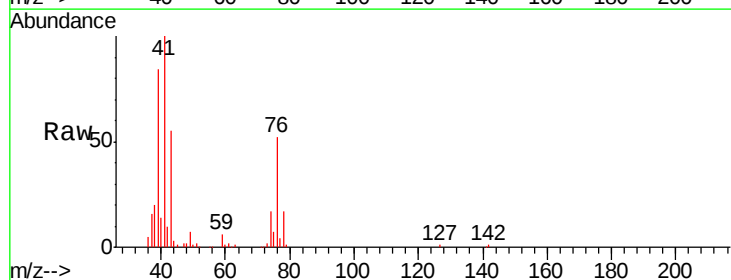
Manual Integrations
APPROVED

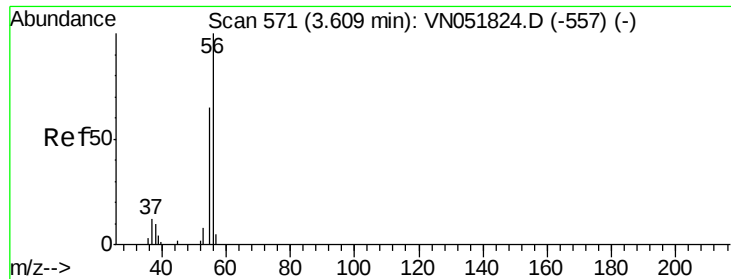
MMDadoda
10/15/2018 11:27:49 AM



#12
Methyl Acetate
Concen: 31.41 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	30.8	21.8	32.6





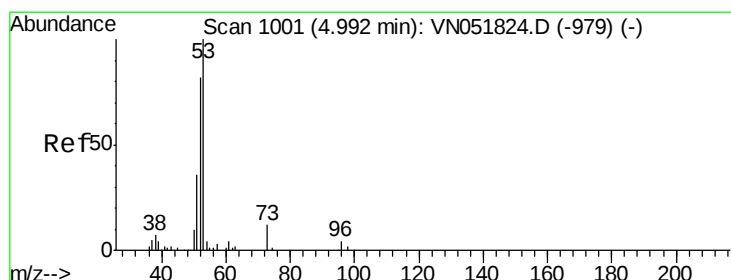
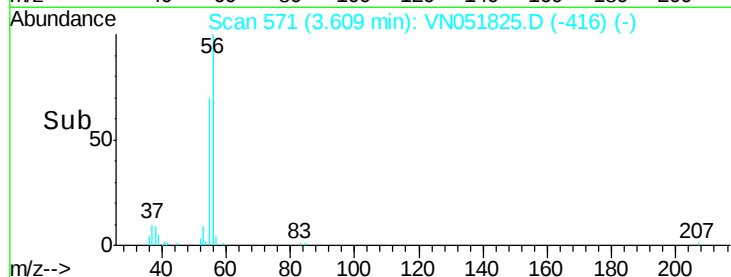
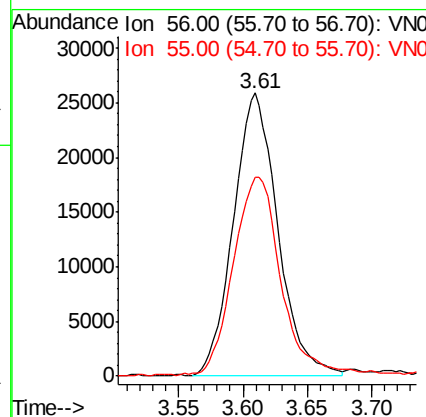
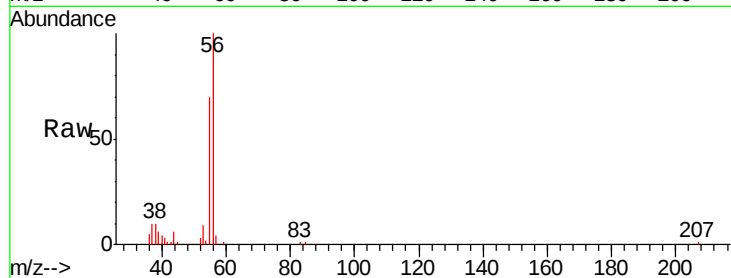
#13
Acrolein
Concen: 64.28 ug/l
RT: 3.61 min Scan# 571
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
56	100		
55	72.1	64.0	96.0

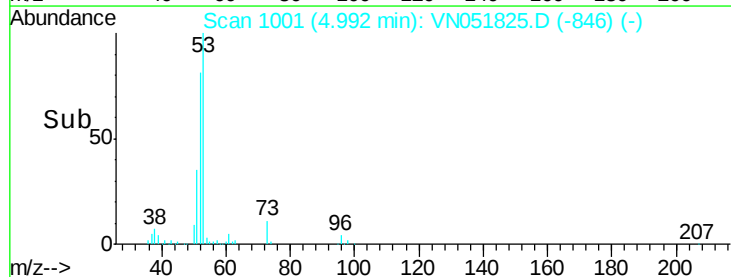
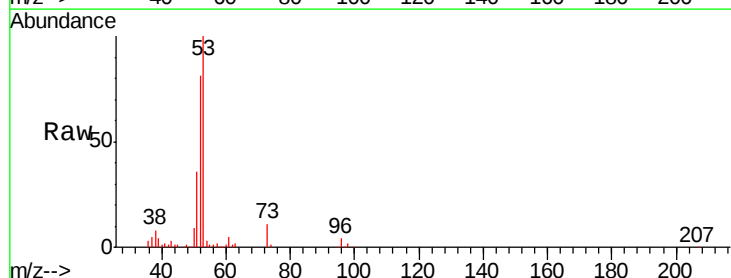
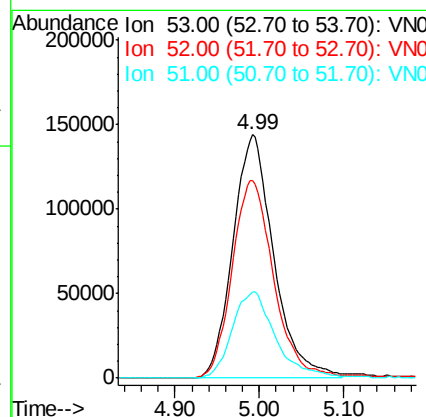
Manual Integrations
APPROVED

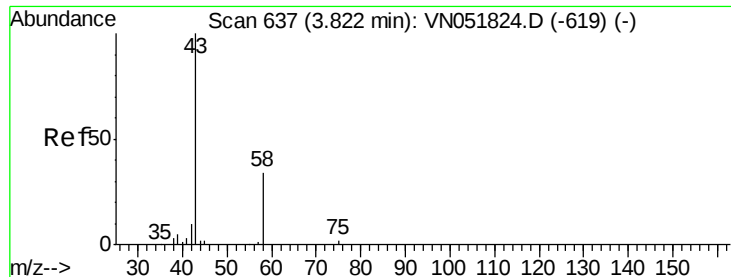
MMDadoda
10/15/2018 11:27:49 AM



#14
Acrylonitrile
Concen: 167.04 ug/l
RT: 4.99 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
53	100		
52	82.3	18.3	54.8#
51	37.5	19.7	59.1





#15

Acetone

Concen: 165.36 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 58 Resp: 117255

Ion Ratio Lower Upper

58 100

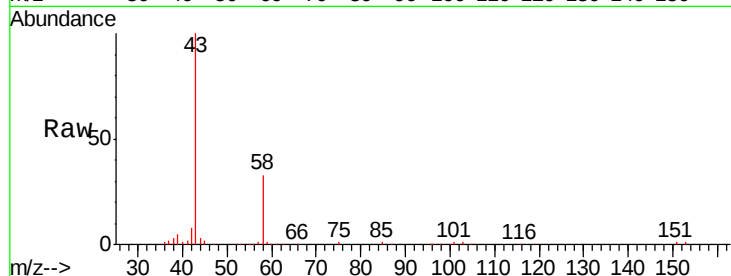
43 296.7 232.2 348.2

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN051825.D (-482) (-)

Ion 43.00 (42.70 to 43.70): VN051825.D (-482) (-)

150000

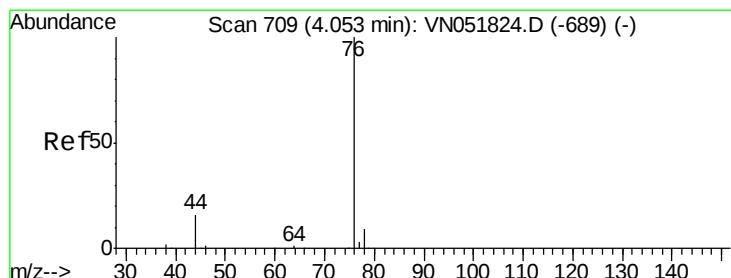
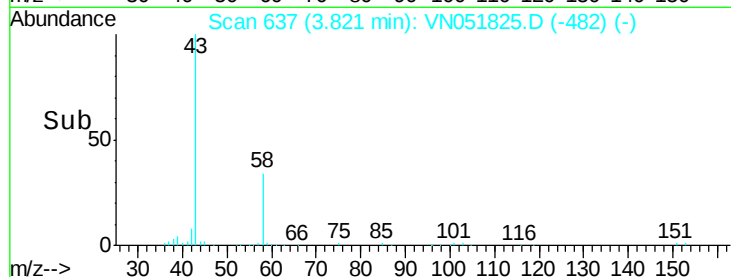
100000

50000

0

3.82

Time-->



#16

Carbon Disulfide

Concen: 35.47 ug/l

RT: 4.05 min Scan# 709

Delta R.T. -0.00 min

Lab File: VN051825.D

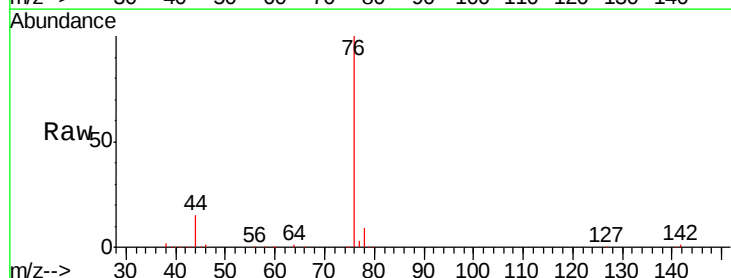
Acq: 12 Oct 2018 9:03

Tgt Ion: 76 Resp: 909821

Ion Ratio Lower Upper

76 100

78 9.1 6.7 10.1



Abundance Ion 76.00 (75.70 to 76.70): VN051825.D (-554) (-)

Ion 78.00 (77.70 to 78.70): VN051825.D (-554) (-)

400000

300000

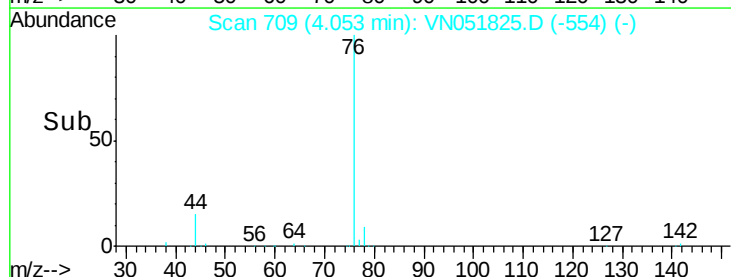
200000

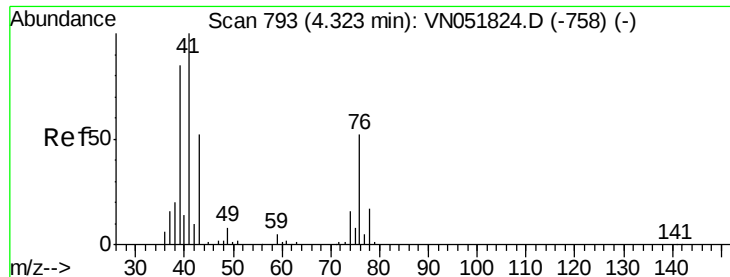
100000

0

4.05

Time-->





#17

Allyl chloride

Concen: 29.25 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 41 Resp: 417298

Ion Ratio Lower Upper

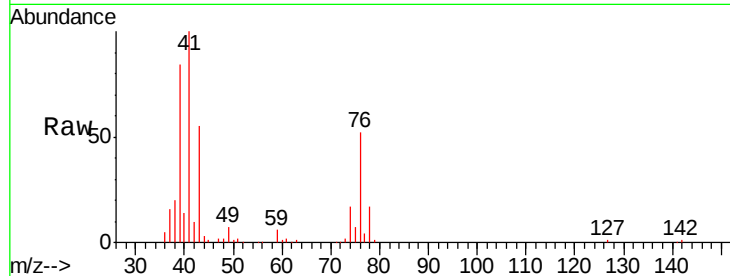
41 100

39 84.6 32.6 97.8

76 52.1 20.2 60.5

Manual Integrations
APPROVED

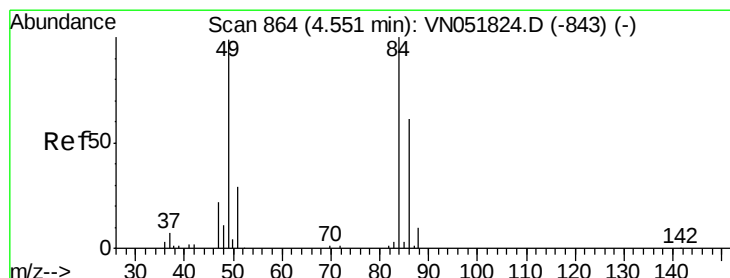
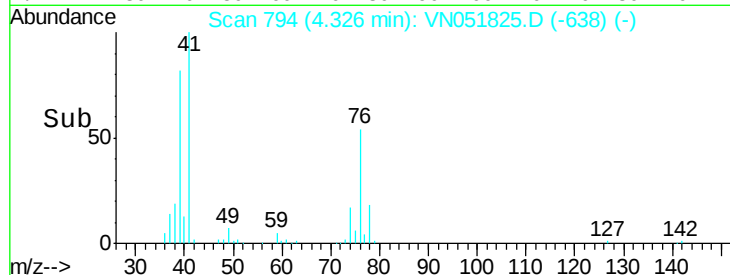
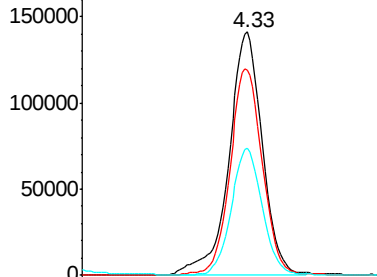
MMDadoda
10/15/2018 11:27:49 AM



Abundance Ion 41.00 (40.70 to 41.70): VN051825.D (-758) (-)

Ion 39.00 (38.70 to 39.70): VN051825.D (-758) (-)

Ion 76.00 (75.70 to 76.70): VN051825.D (-758) (-)



#18

Methylene Chloride

Concen: 39.57 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Tgt Ion: 84 Resp: 385221

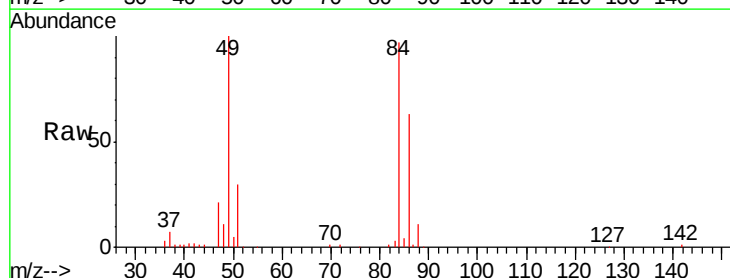
Ion Ratio Lower Upper

84 100

49 103.1 91.6 137.4

51 30.9 29.8 44.6

86 65.5 48.2 72.4

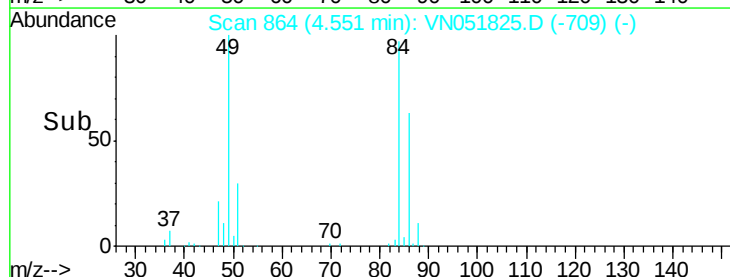
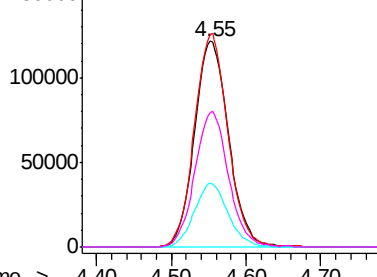


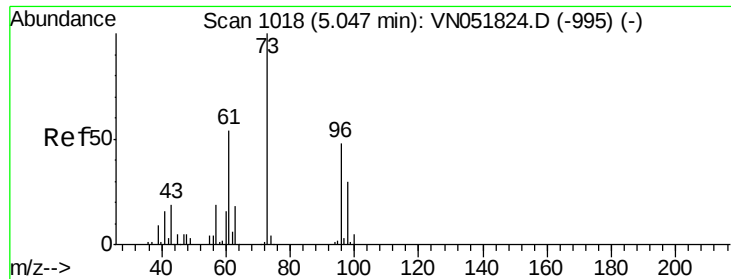
Abundance Ion 84.00 (83.70 to 84.70): VN051825.D (-709) (-)

Ion 49.00 (48.70 to 49.70): VN051825.D (-709) (-)

Ion 51.00 (50.70 to 51.70): VN051825.D (-709) (-)

Ion 86.00 (85.70 to 86.70): VN051825.D (-709) (-)





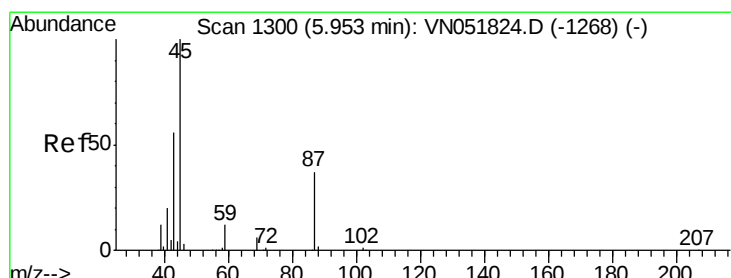
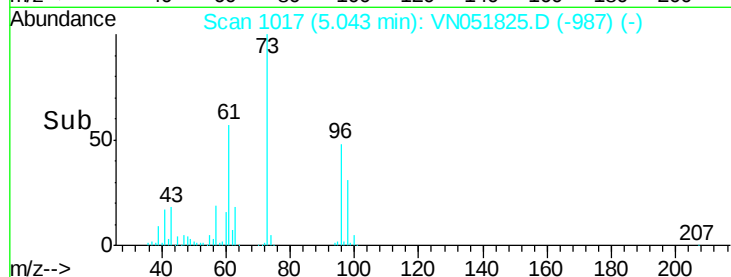
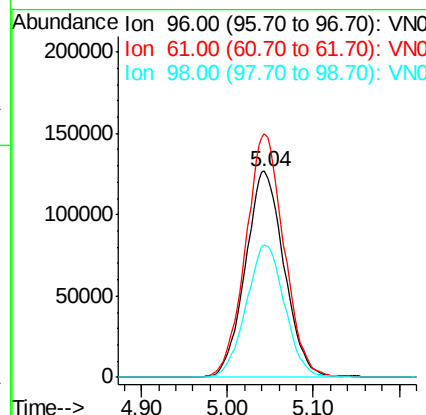
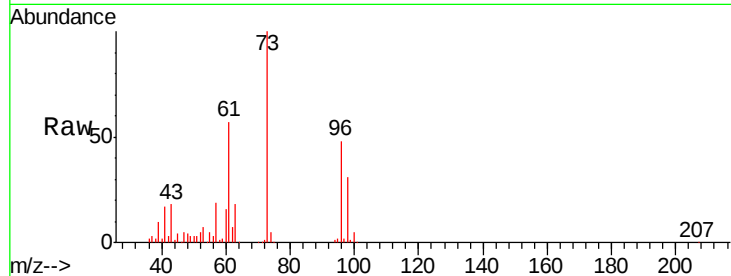
#19
trans-1,2-Dichloroethene
Concen: 44.76 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.0	112.3	168.5
98	64.2	47.1	70.7

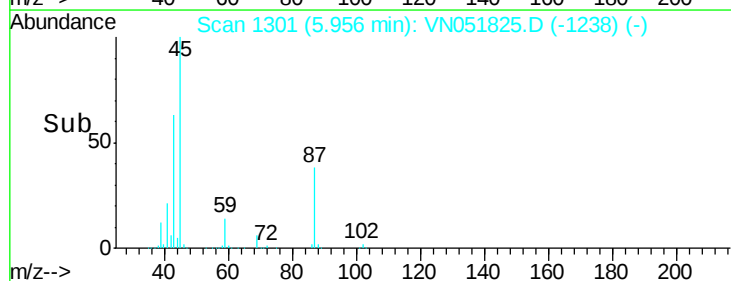
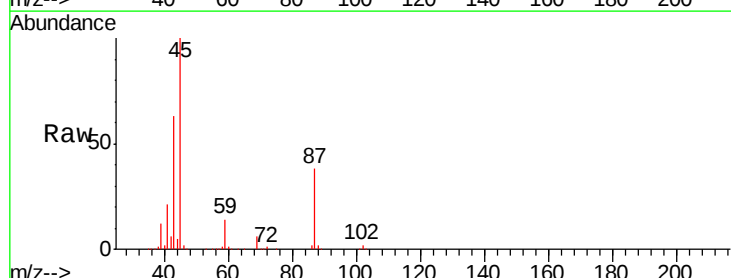
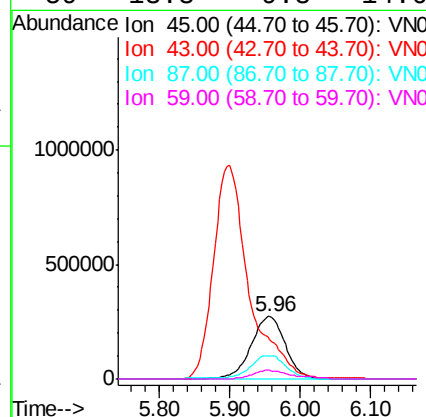
Manual Integrations
APPROVED

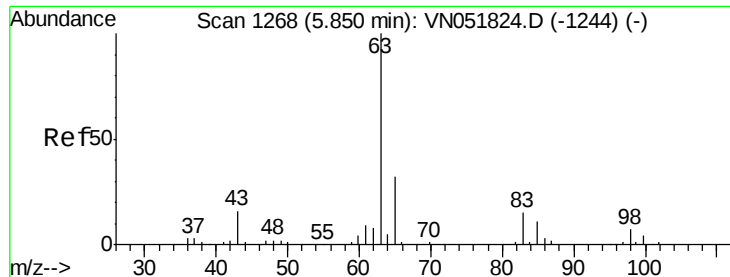
MMDadoda
10/15/2018 11:27:49 AM



#20
Diisopropyl ether
Concen: 31.86 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	61.8	62.1	93.1#
87	37.7	19.9	29.9#
59	13.3	9.8	14.6





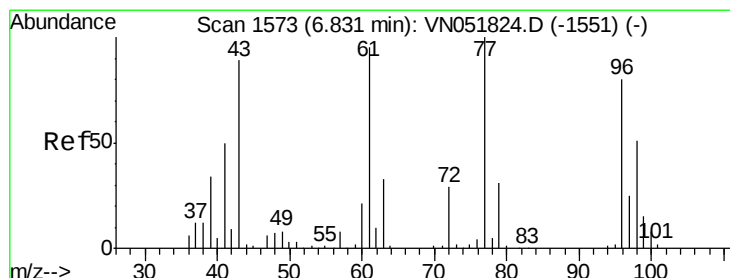
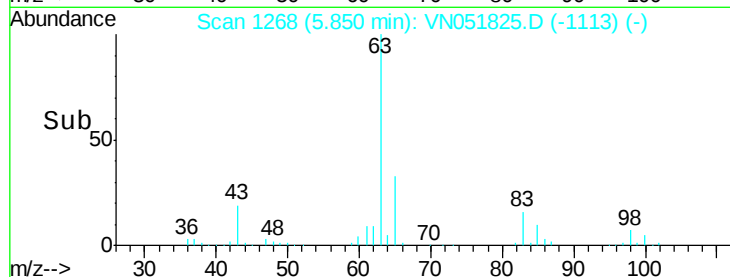
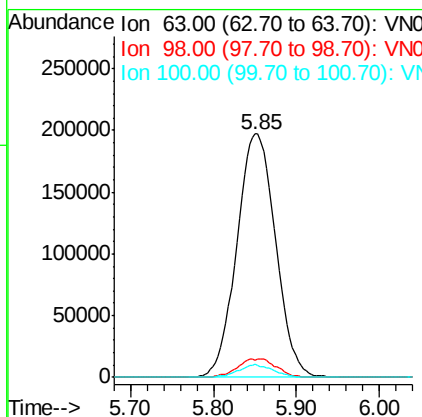
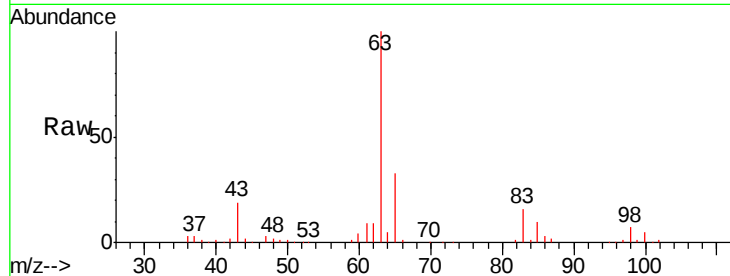
#21
 1,1-Dichloroethane
 Concen: 37.01 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.3	4.1	12.3
100	5.2	1.6	4.7

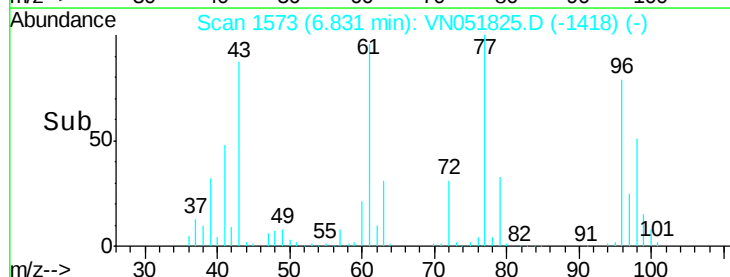
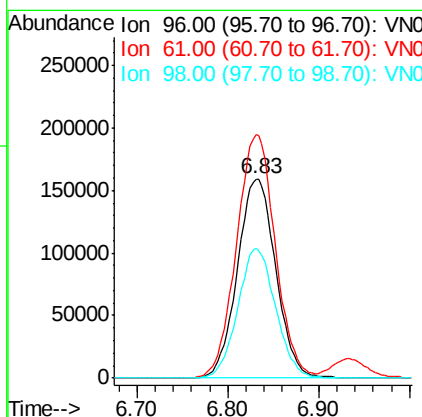
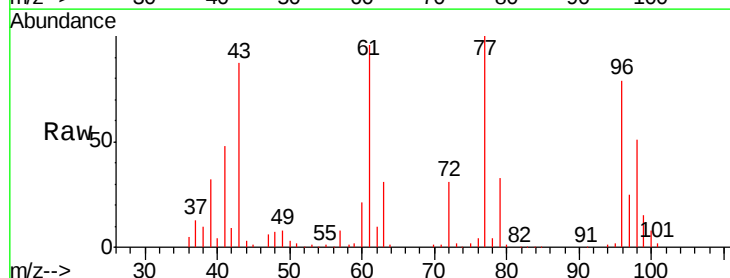
Manual Integrations
 APPROVED

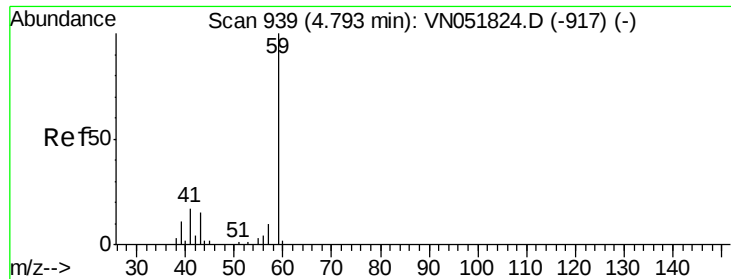
MMDadoda
 10/15/2018 11:27:49 AM



#22
 cis-1,2-Dichloroethene
 Concen: 46.93 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.4	124.5	186.7
98	64.2	51.9	77.9





#23

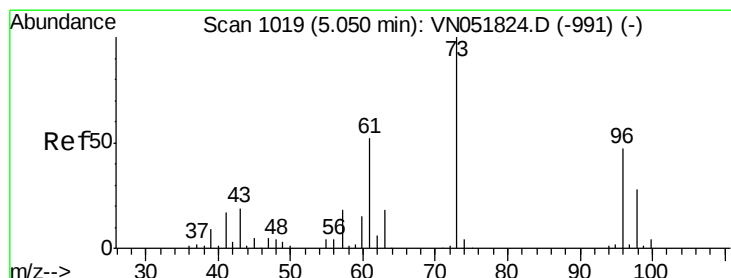
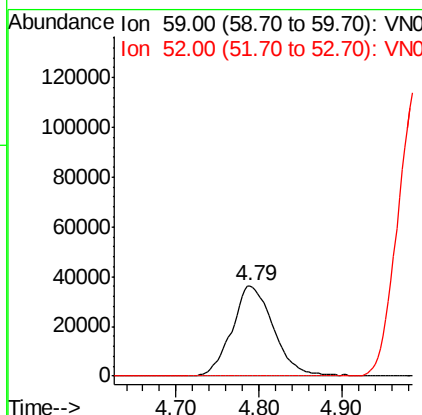
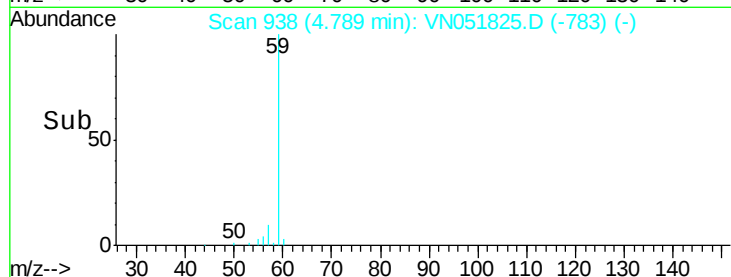
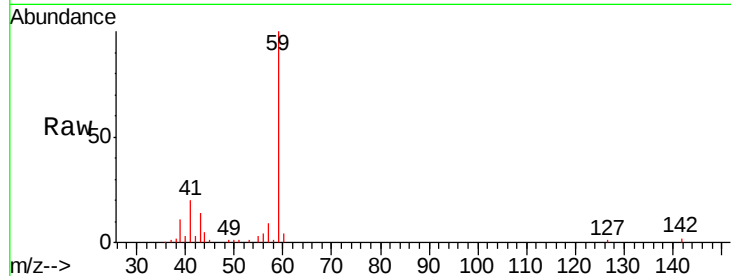
tert-Butyl Alcohol
Concen: 231.80 ug/l
RT: 4.79 min Scan# 938
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 59 Resp: 126071
Ion Ratio Lower Upper
59 100
52 0.1 0.0 0.0#

Manual Integrations
APPROVED

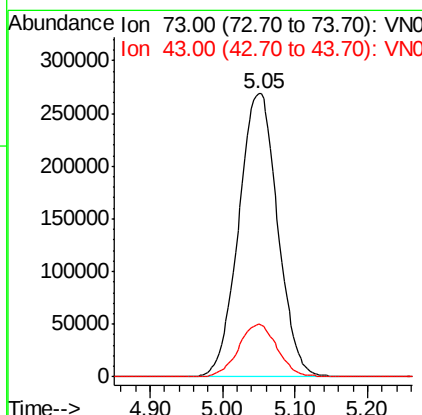
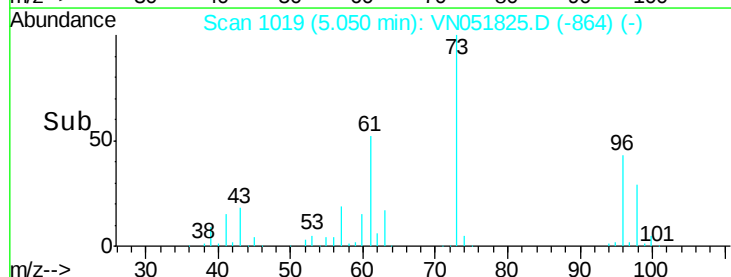
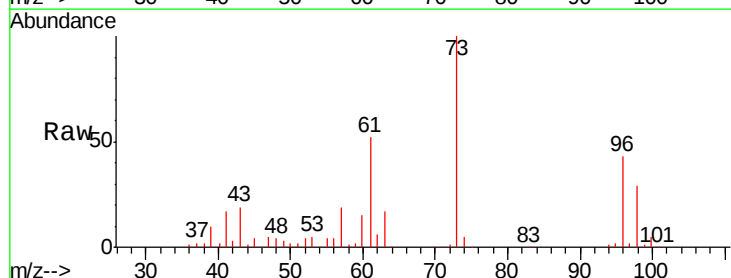
MMDadoda
10/15/2018 11:27:49 AM

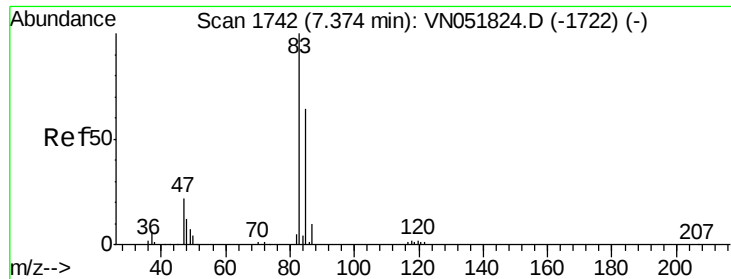


#24

Methyl tert-Butyl Ether
Concen: 45.37 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion: 73 Resp: 1006442
Ion Ratio Lower Upper
73 100
43 18.3 5.4 8.0#





#25

Chloroform

Concen: 44.31 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 767423

Ion Ratio Lower Upper

83 100

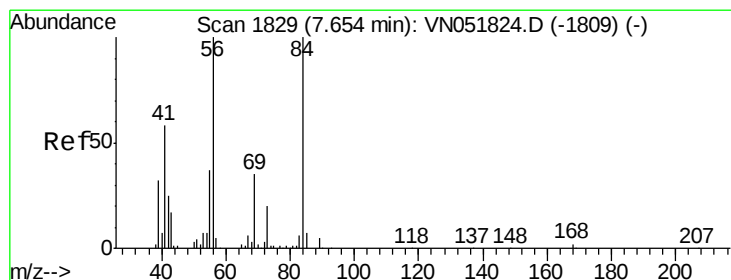
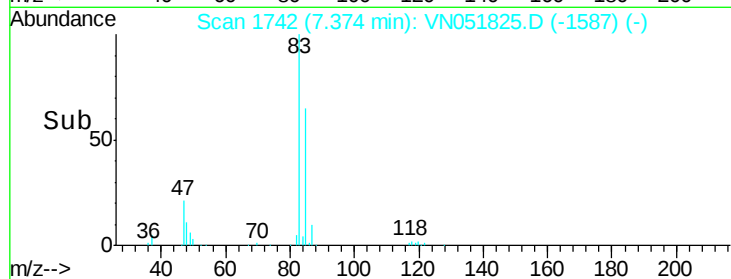
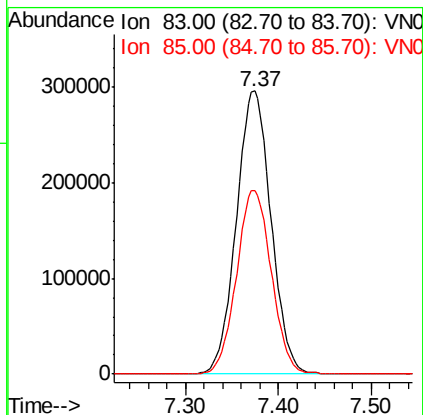
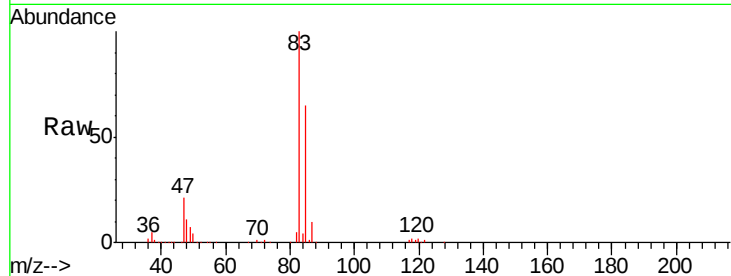
85 64.6 54.6 82.0

Manual Integrations

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#26

Cyclohexane

Concen: 37.06 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

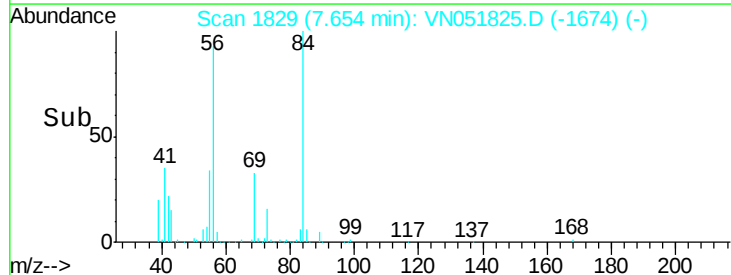
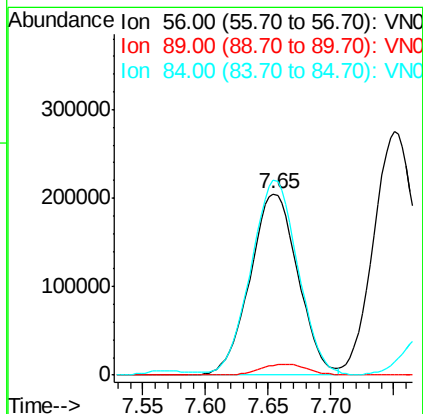
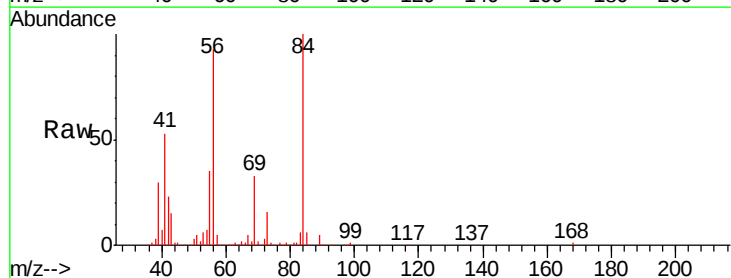
Tgt Ion: 56 Resp: 545161

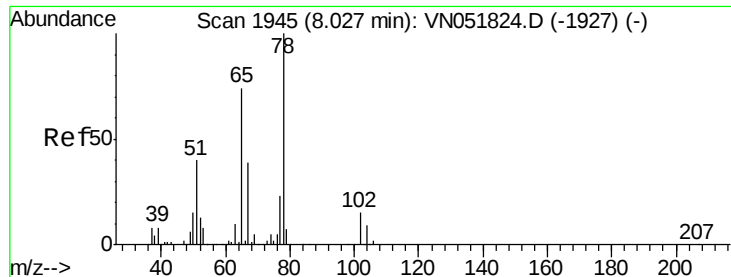
Ion Ratio Lower Upper

56 100

89 5.9 1.5 2.3#

84 105.8 64.2 96.4#





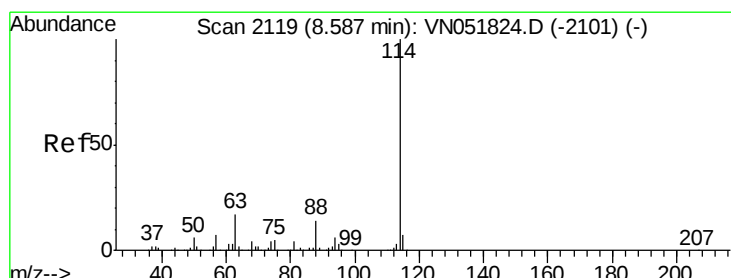
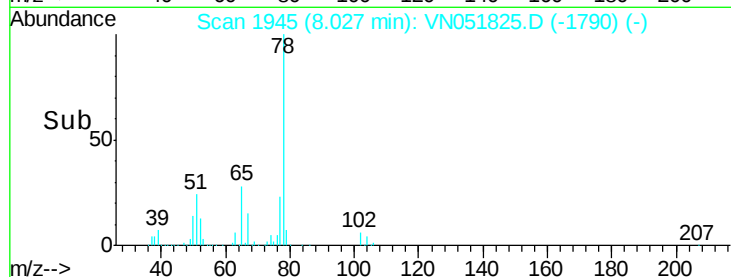
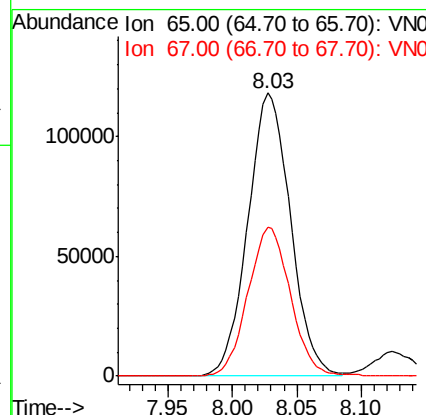
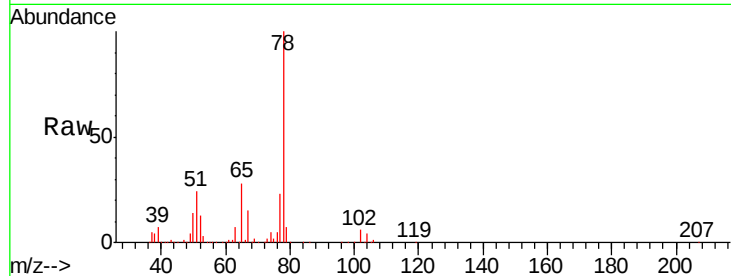
#27
 1,2-Dichloroethane-d4
 Concen: 37.06 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
65	100		
67	52.4	41.8	62.8

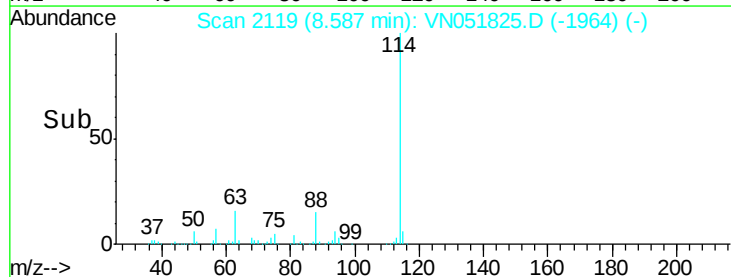
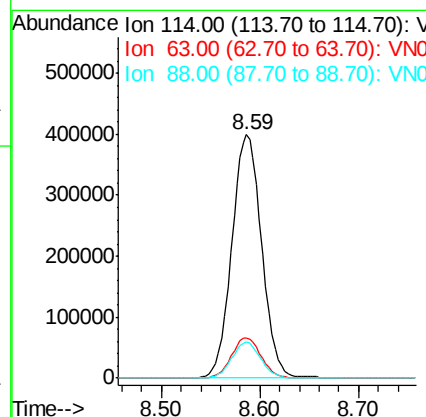
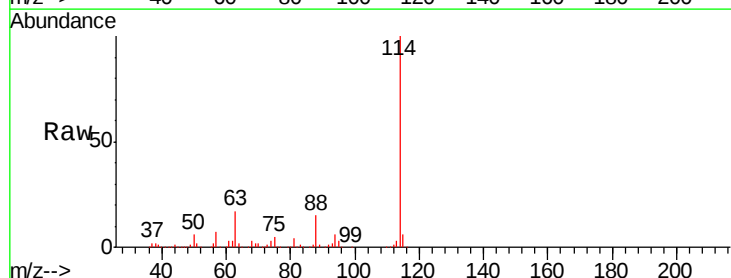
Manual Integrations
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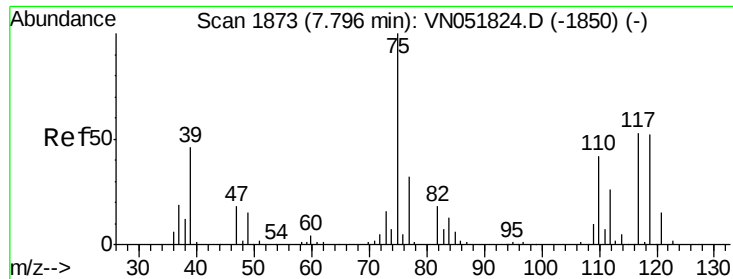
MMDadoda
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#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	16.4	16.2	24.2
88	14.4	12.2	18.4





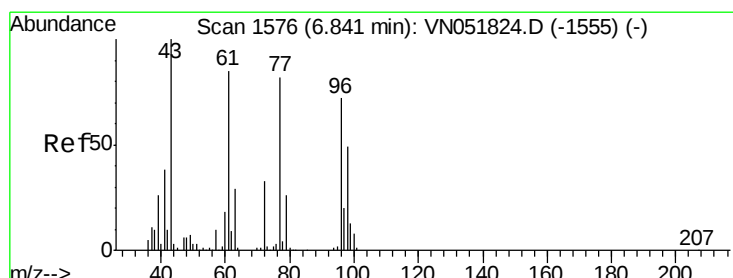
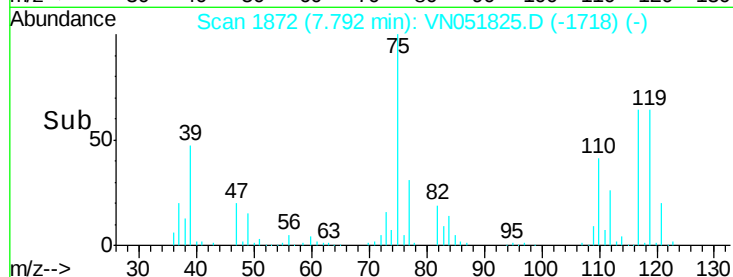
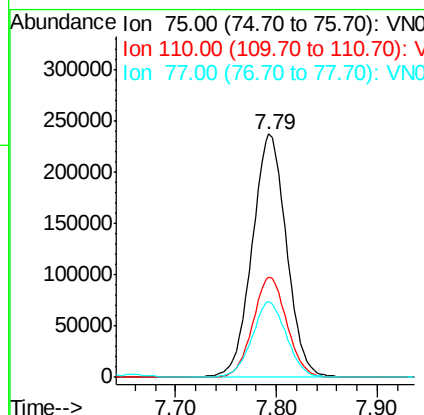
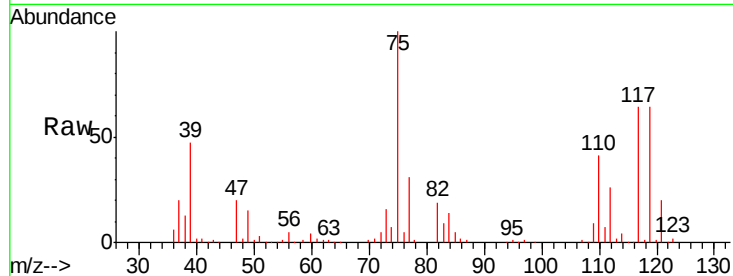
#29
 1,1-Dichloropropene
 Concen: 40.02 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Resp Lower	Resp Upper
75	100		
110	40.7	0.0	70.8
77	31.2	0.0	61.6

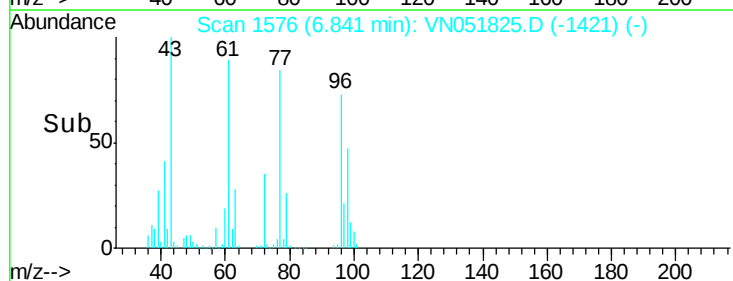
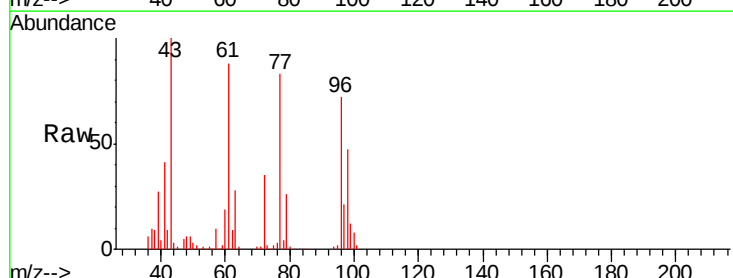
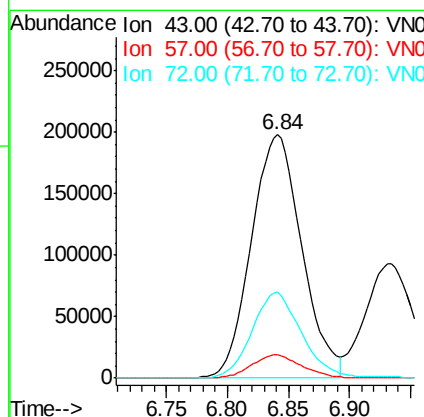
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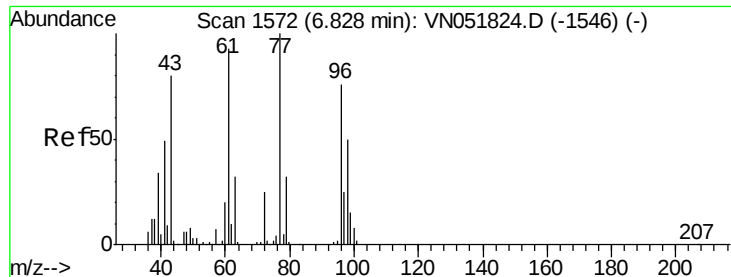
MMDadoda
 10/15/2018 11:27:49 AM



#30
 2-Butanone
 Concen: 159.19 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Resp Lower	Resp Upper
43	100		
57	9.4	4.5	6.7#
72	34.7	21.5	32.3#





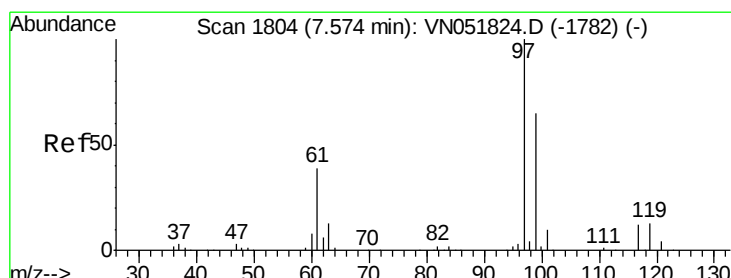
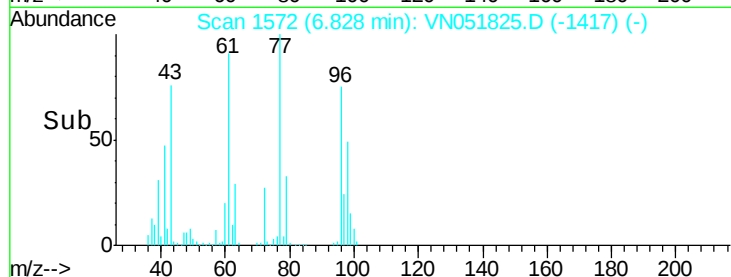
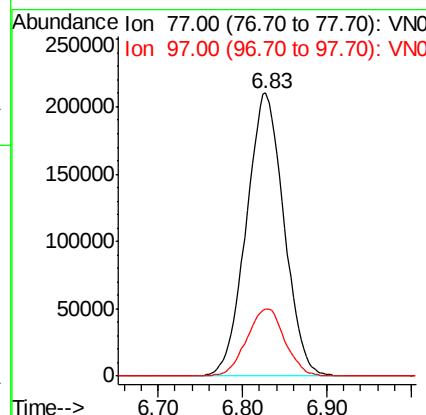
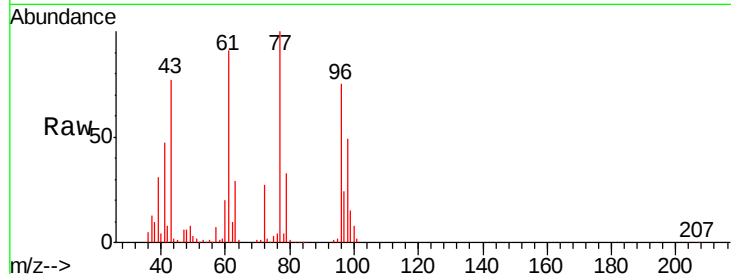
#31
 2,2-Dichloropropane
 Concen: 43.77 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion: 77 Resp: 652617
 Ion Ratio Lower Upper
 77 100
 97 24.1 12.0 18.0#

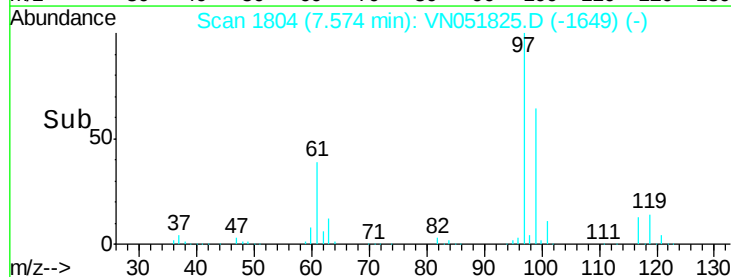
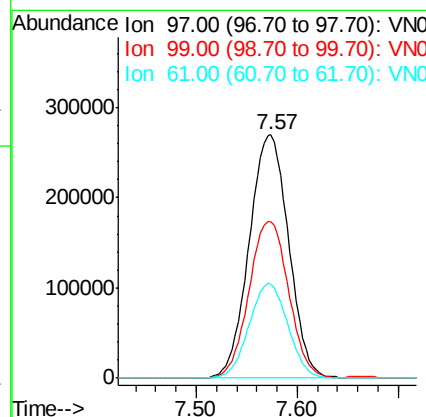
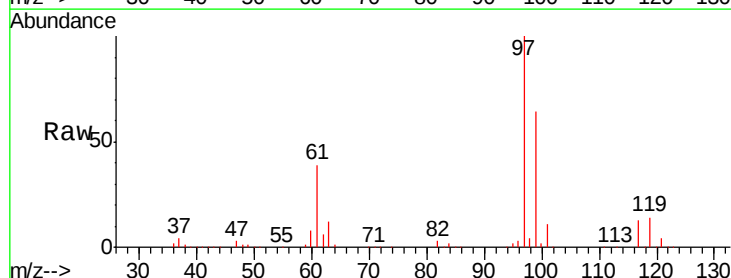
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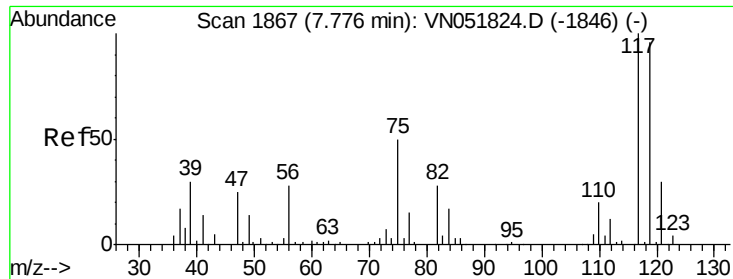
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 45.87 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion: 97 Resp: 732662
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.6 77.4
 61 38.3 37.4 56.0





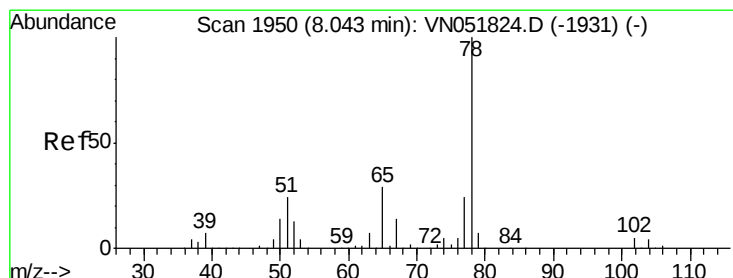
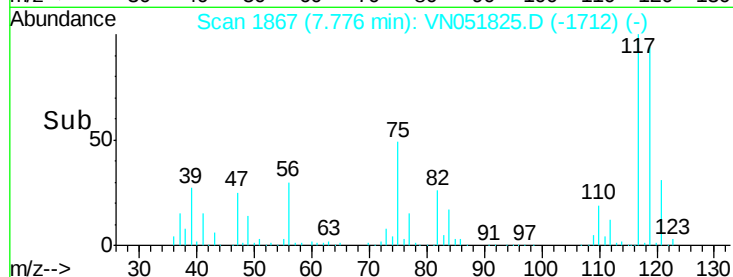
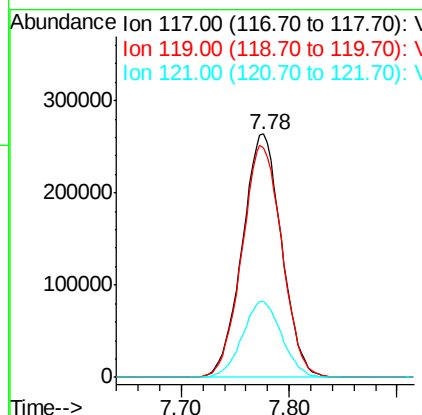
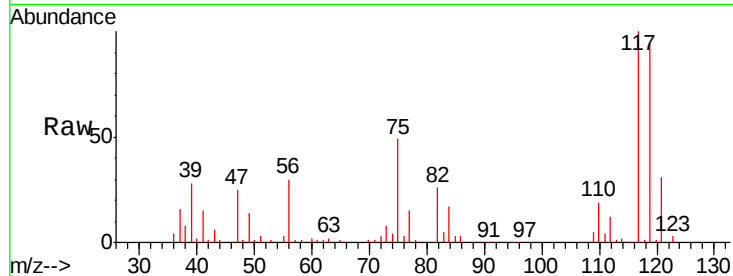
#33
Carbon Tetrachloride
Concen: 45.83 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	85.1	127.7
121	31.1	24.2	36.2

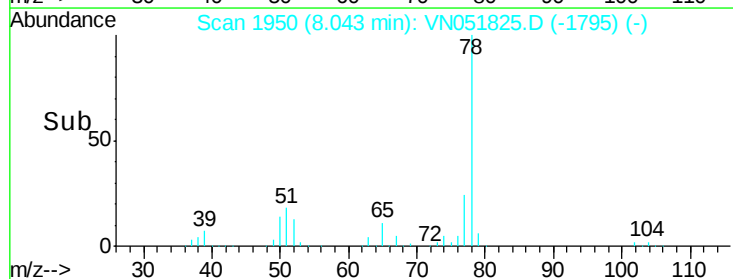
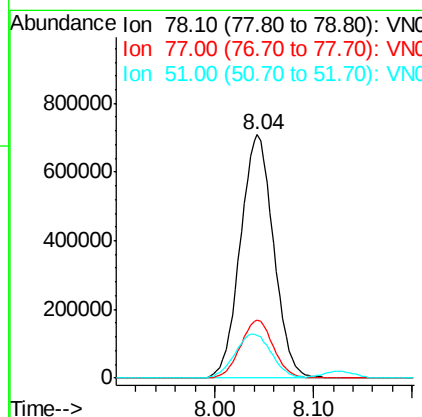
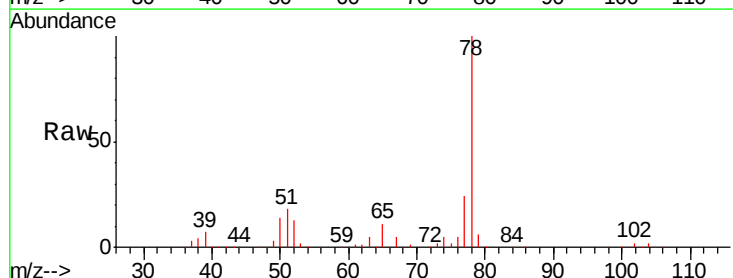
Manual Integrations
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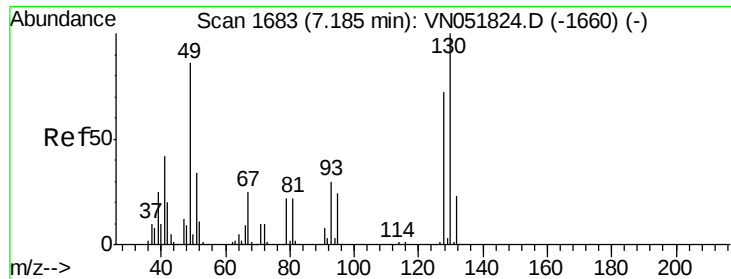
MMDadoda
10/15/2018 11:27:49 AM



#34
Benzene
Concen: 39.60 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2
51	17.7	46.2	69.4#





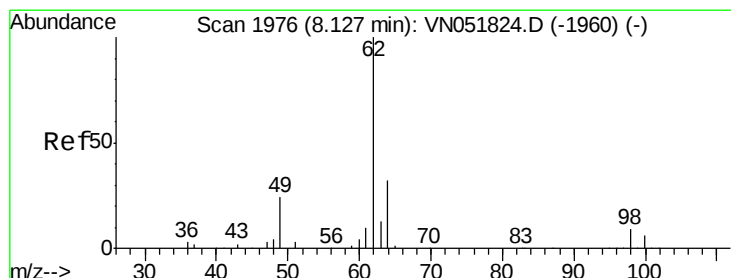
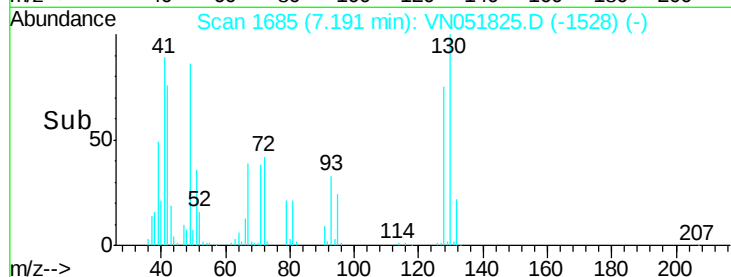
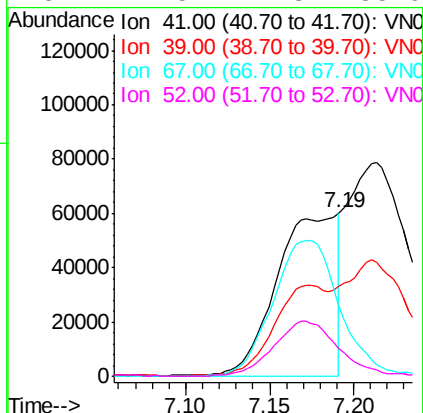
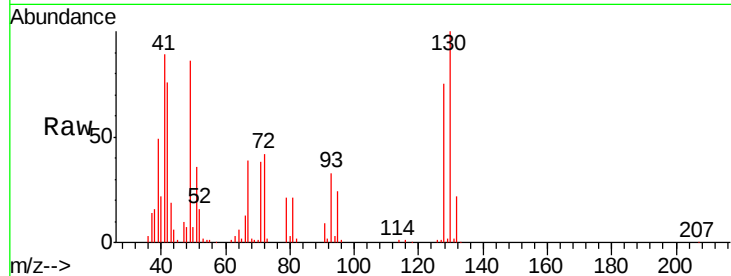
#35
Methacrylonitrile
Concen: 33.78 ug/l m
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
41	100		
39	55.0	22.6	67.7
67	43.6	28.9	86.8
52	17.5	11.3	33.9

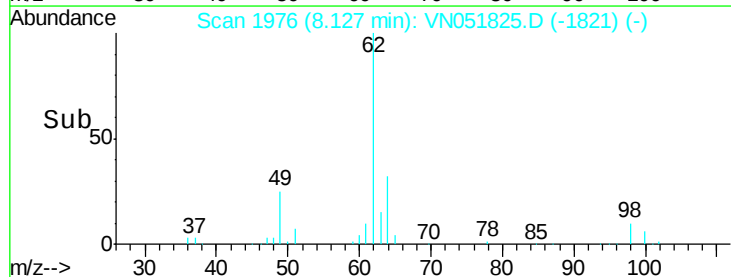
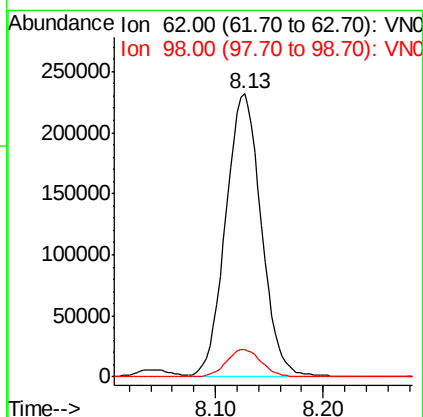
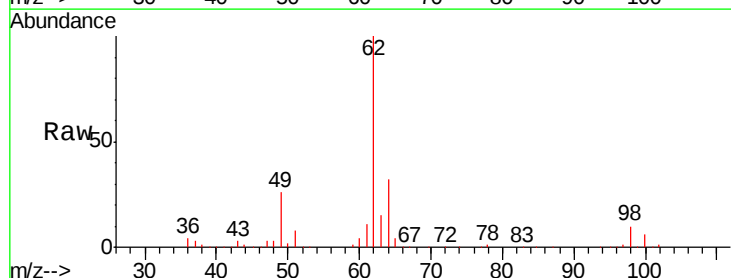
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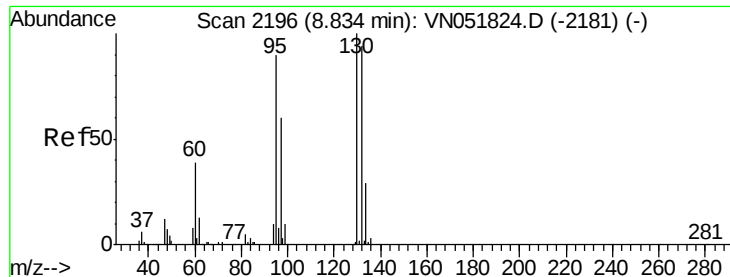
MMDadoda
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#36
1,2-Dichloroethane
Concen: 39.51 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	6.9	10.3





#37

Trichloroethene

Concen: 45.87 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 130 Resp: 503994

Ion Ratio Lower Upper

130 100

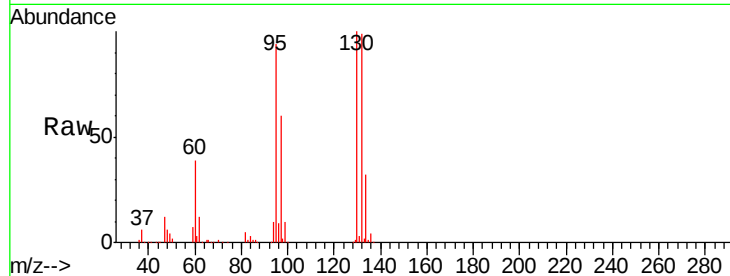
95 93.8 76.4 114.6

Manual Integrations

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Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.84

250000

200000

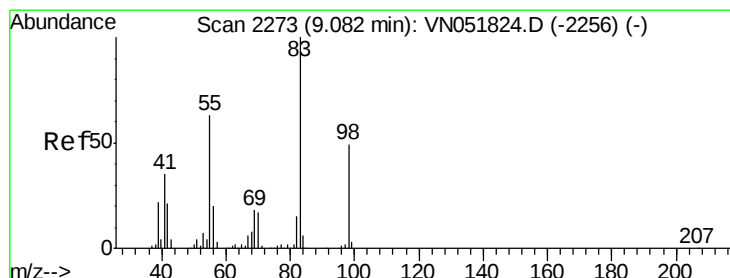
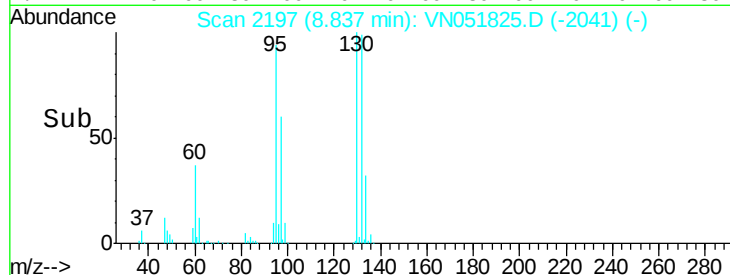
150000

100000

50000

0

Time-->



#38

Methylcyclohexane

Concen: 44.25 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

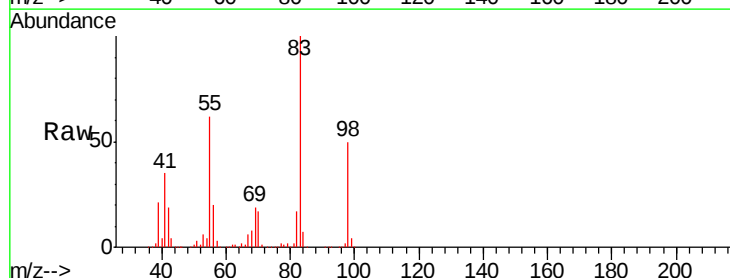
Tgt Ion: 83 Resp: 708827

Ion Ratio Lower Upper

83 100

55 61.6 43.0 129.2

98 49.4 21.3 63.7



Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN

9.08

400000

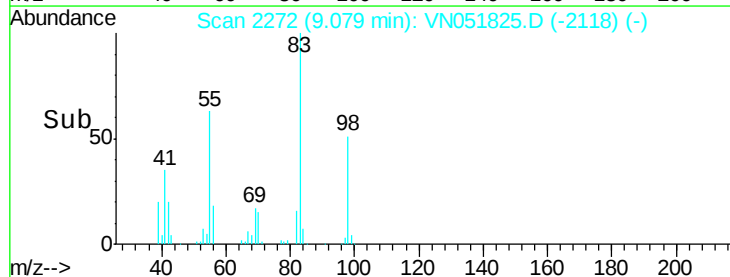
300000

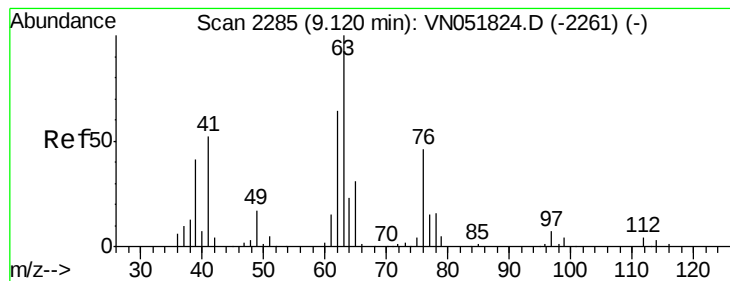
200000

100000

0

Time-->





#39

1,2-Dichloropropane

Concen: 34.16 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 63 Resp: 386907

Ion Ratio Lower Upper

63 100

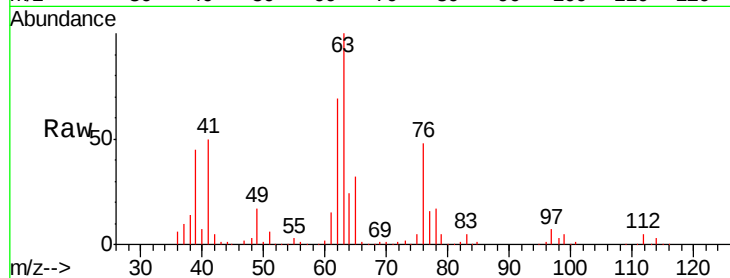
65 31.6 23.2 34.8

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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

200000

150000

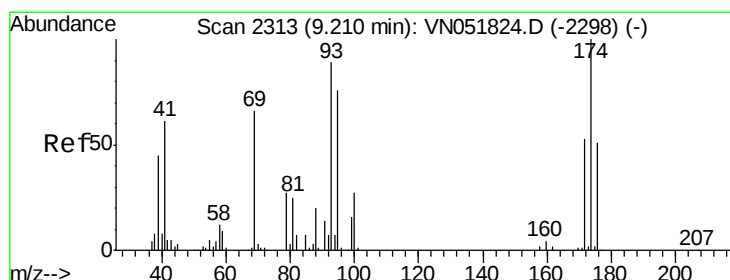
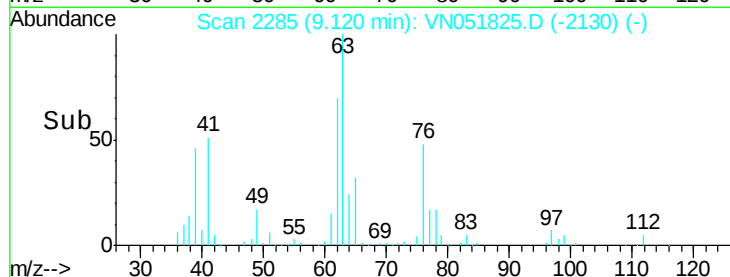
100000

50000

0

9.00 9.10 9.20

Time-->



#40

Dibromomethane

Concen: 44.62 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

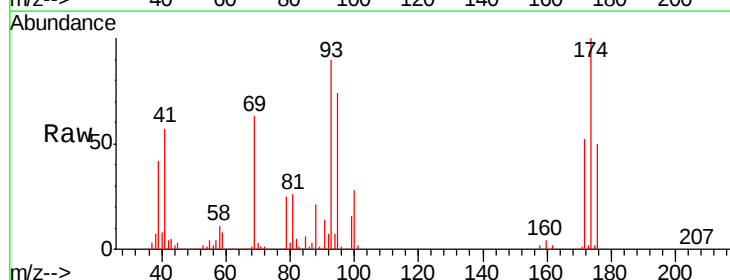
Tgt Ion: 93 Resp: 287651

Ion Ratio Lower Upper

93 100

95 82.9 0.0 162.0

174 111.2 0.0 214.0



Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V

200000

150000

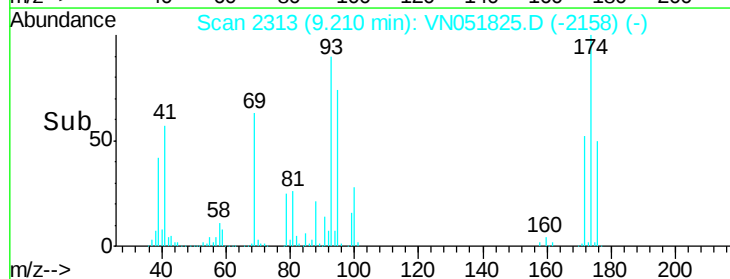
100000

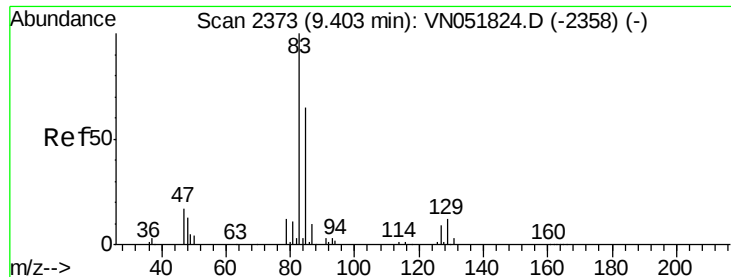
50000

0

9.10 9.15 9.20 9.25 9.30

Time-->





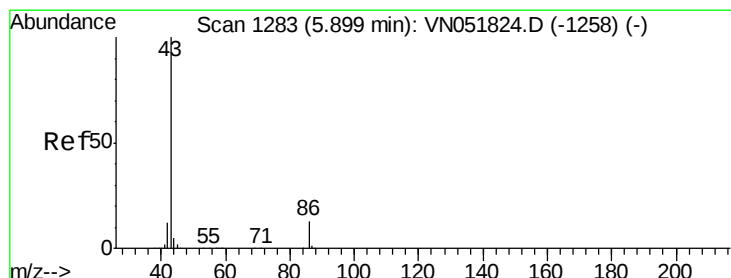
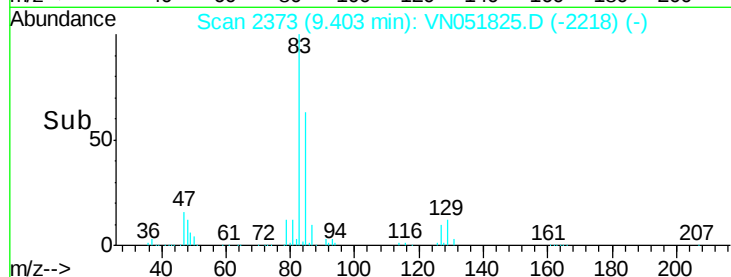
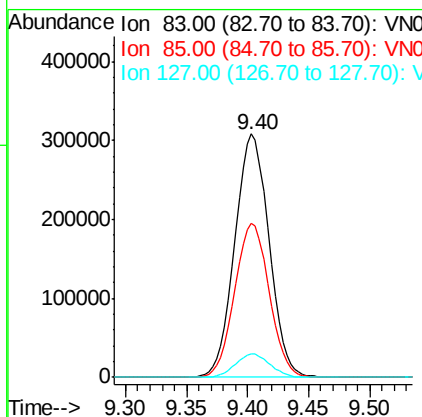
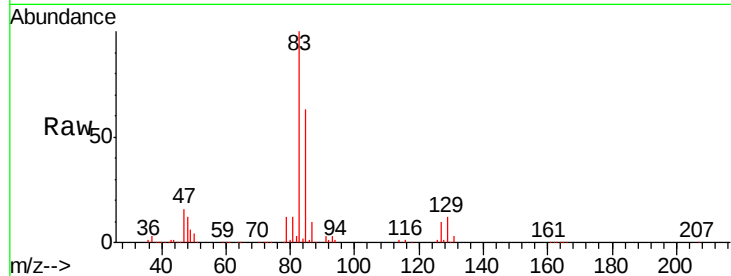
#41
 Bromodichloromethane
 Concen: 42.47 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	55.7	83.5
127	9.7	8.2	12.4

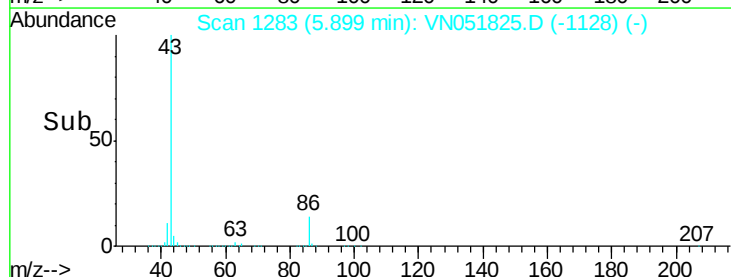
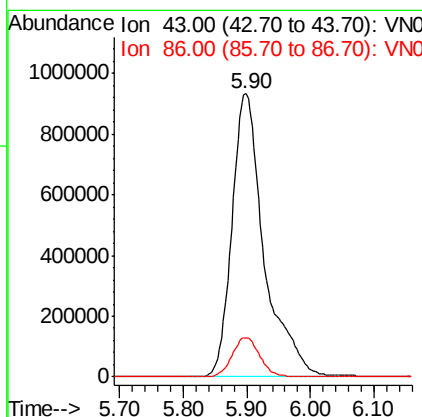
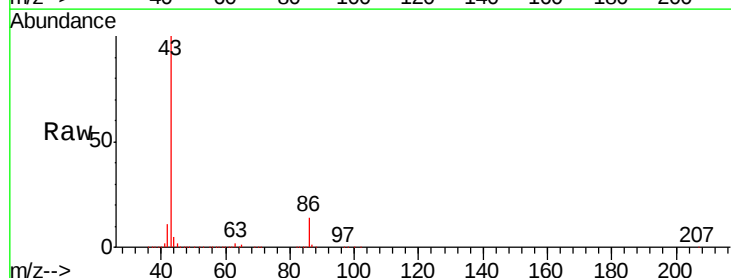
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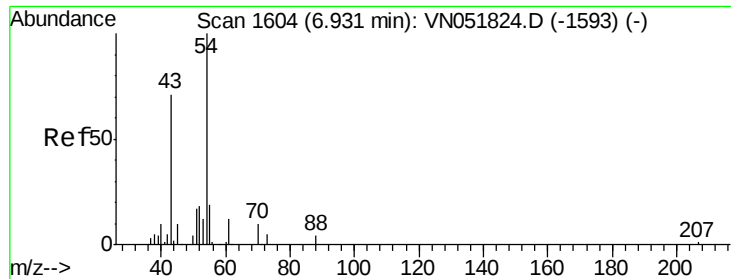
MMDadoda
 10/15/2018 11:27:49 AM



#42
 Vinyl Acetate
 Concen: 164.00 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
43	100		
86	12.0	6.5	9.7#





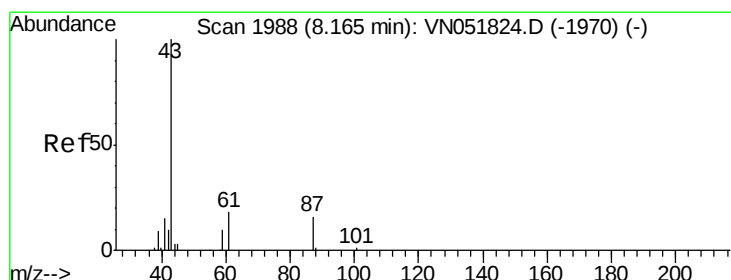
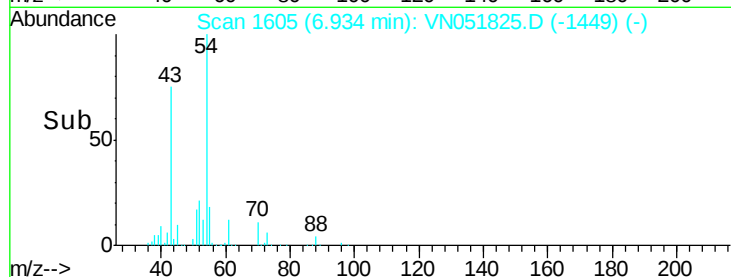
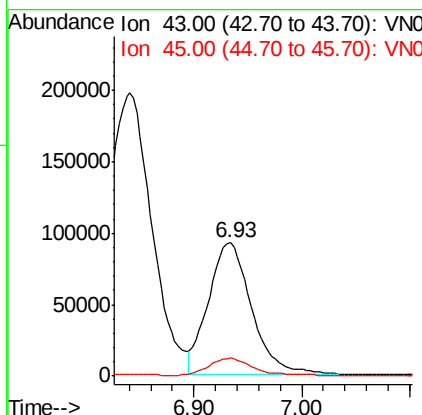
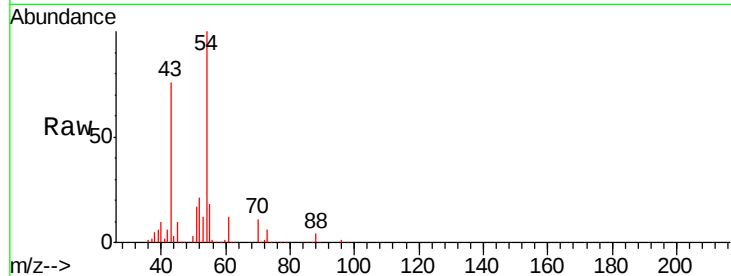
#43
Ethyl Acetate
Concen: 34.18 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
43	100		
45	14.4	11.0	16.6

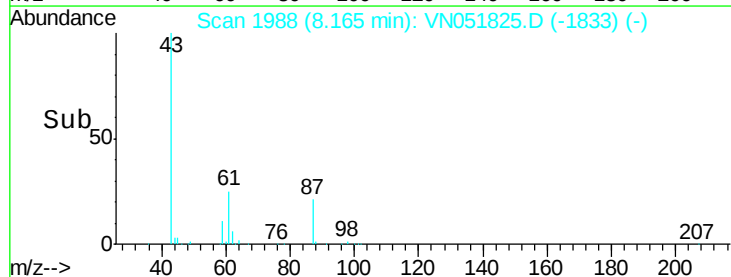
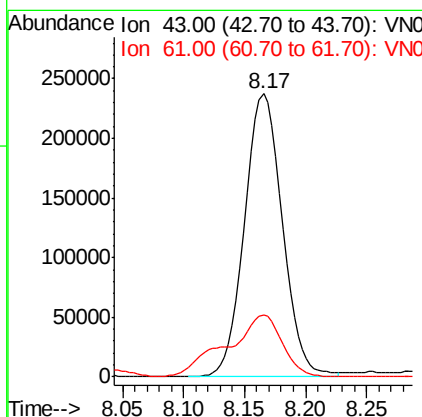
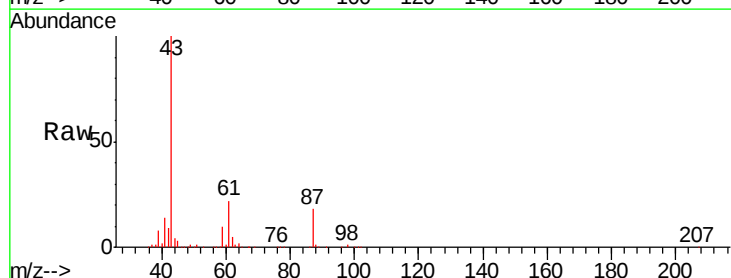
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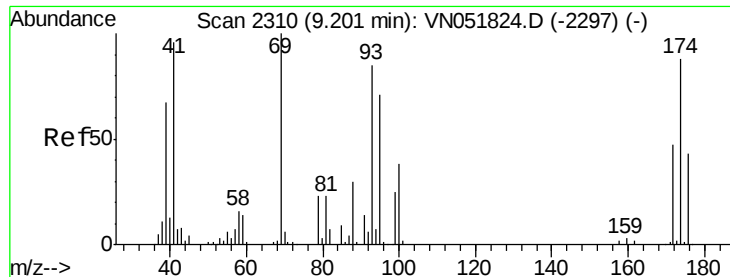
MMDadoda
10/15/2018 11:27:49 AM



#44
Isopropyl Acetate
Concen: 35.52 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.3	15.9	23.9





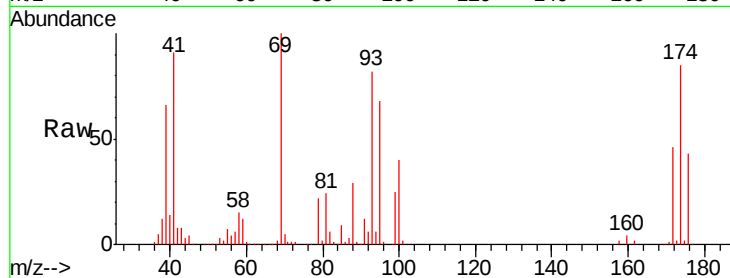
#45
 1,4-Dioxane
 Concen: 947.33 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
88	100		
43	26.0	26.2	39.2#
58	53.7	65.6	98.4#

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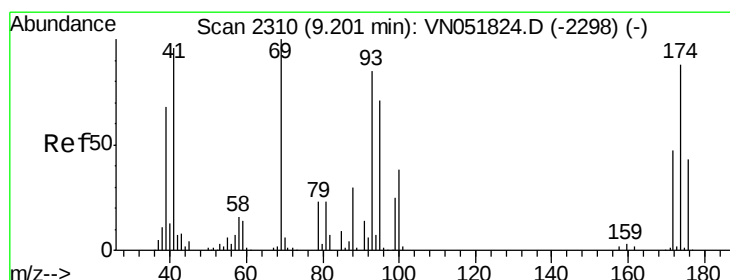
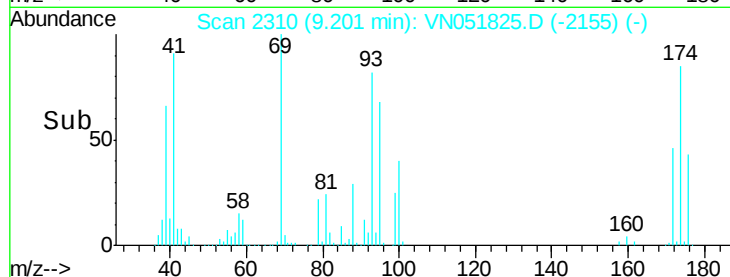
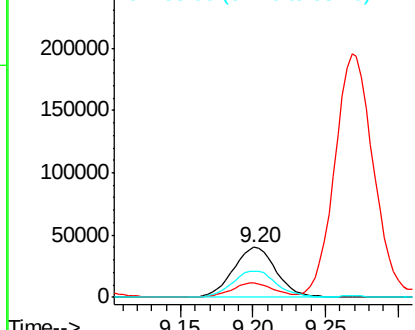


Abundance

Ion 88.00 (87.70 to 88.70): VN051825.D (-2155) (-)

Ion 43.00 (42.70 to 43.70): VN051825.D (-2155) (-)

Ion 58.00 (57.70 to 58.70): VN051825.D (-2155) (-)



#46
 Methyl methacrylate
 Concen: 32.55 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

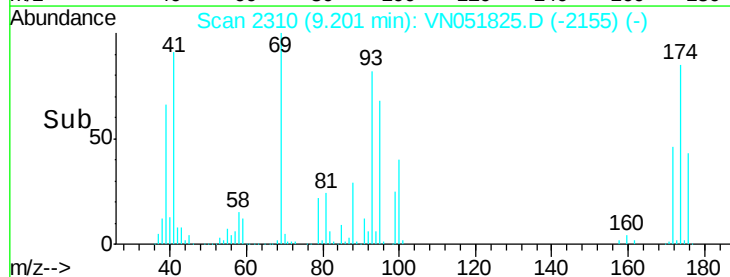
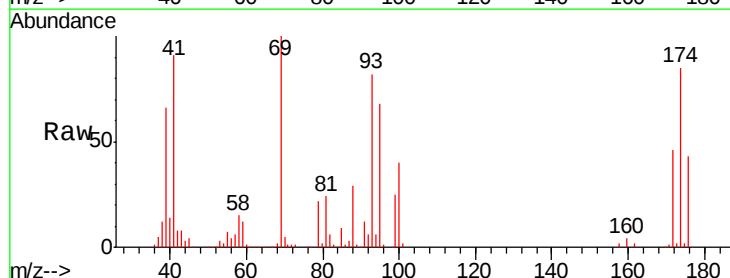
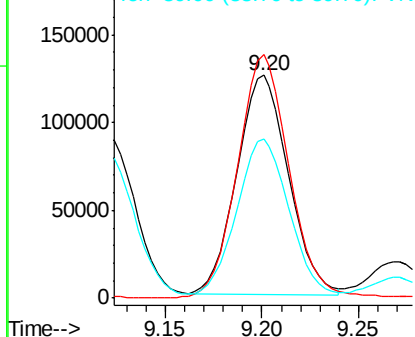
Tgt Ion	Ratio	Lower	Upper
41	100		
69	110.7	40.7	122.1
39	71.5	27.3	81.9

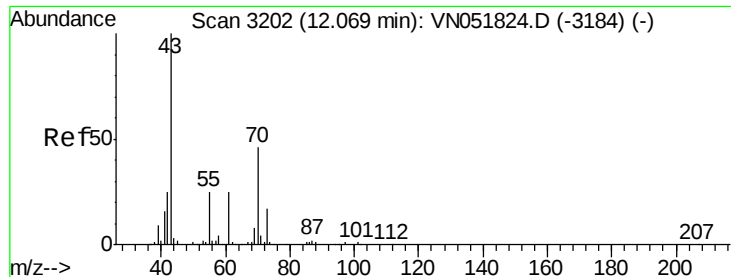
Abundance

Ion 41.00 (40.70 to 41.70): VN051825.D (-2155) (-)

Ion 69.00 (68.70 to 69.70): VN051825.D (-2155) (-)

Ion 39.00 (38.70 to 39.70): VN051825.D (-2155) (-)





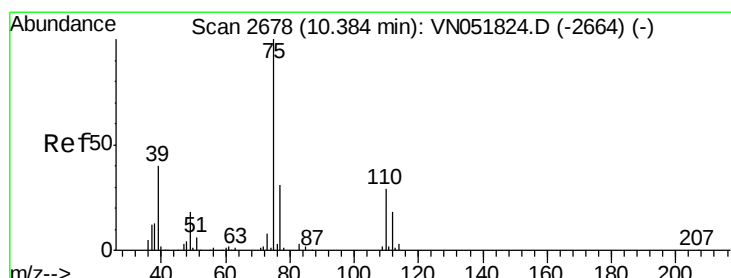
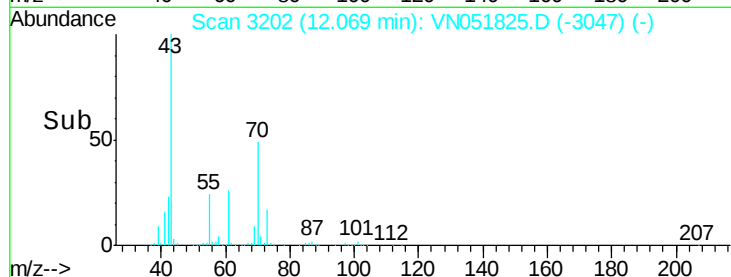
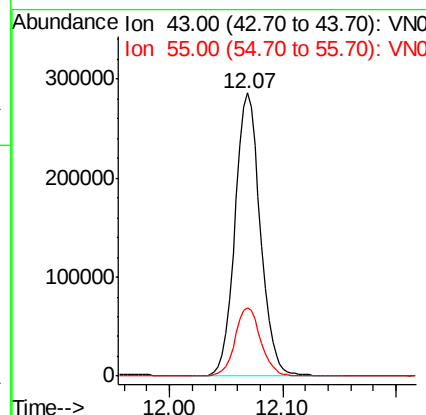
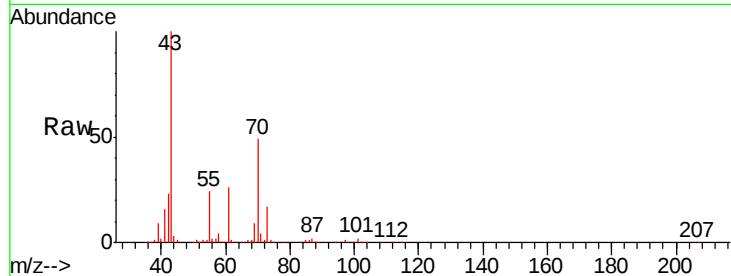
#47
n-amyl Acetate
Concen: 38.89 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion: 43 Resp: 443187
Ion Ratio Lower Upper
43 100
55 24.9 12.2 18.4#

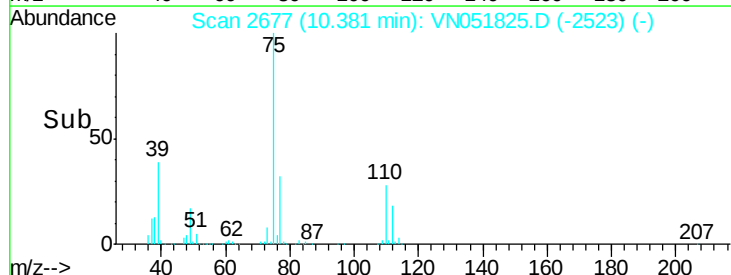
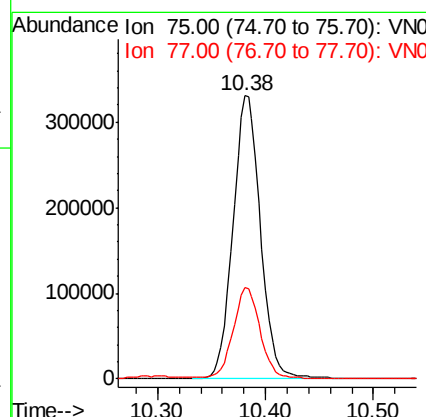
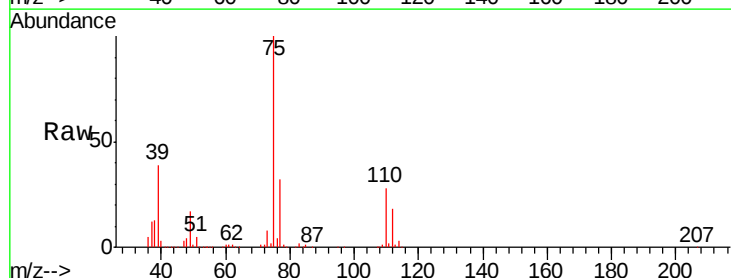
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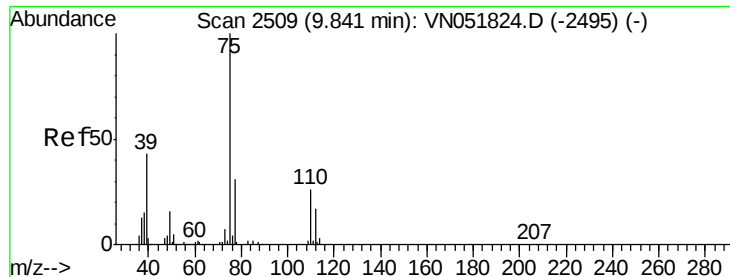
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#48
t-1,3-Dichloropropene
Concen: 42.25 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion: 75 Resp: 587851
Ion Ratio Lower Upper
75 100
77 32.1 24.6 37.0





#49

cis-1,3-Dichloropropene

Concen: 39.98 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 75 Resp: 649827
Ion Ratio Lower Upper

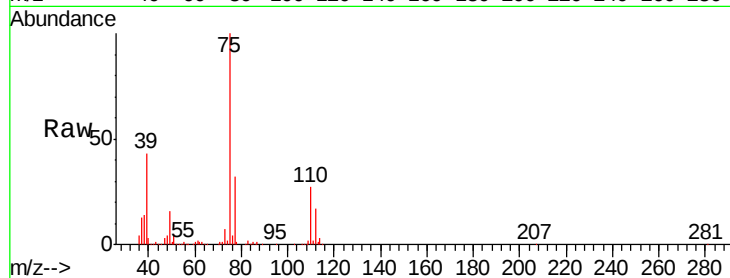
75 100

77 31.8 23.2 34.8

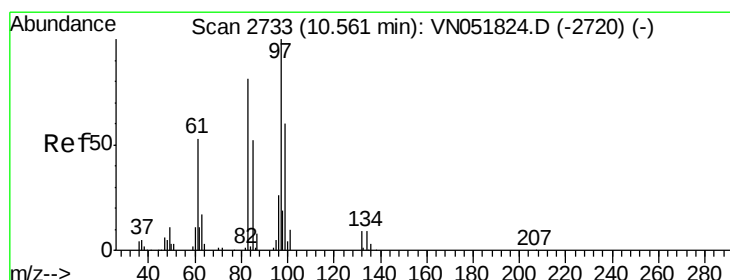
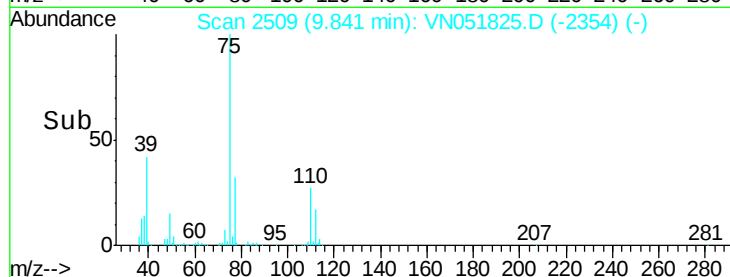
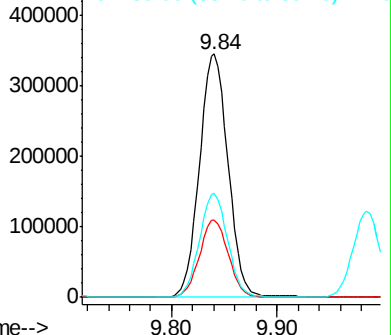
39 42.5 34.6 52.0

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Abundance Ion 75.00 (74.70 to 75.70): VNO
Ion 77.00 (76.70 to 77.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#50

1,1,2-Trichloroethane

Concen: 43.62 ug/l

RT: 10.56 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Tgt Ion: 97 Resp: 400870
Ion Ratio Lower Upper

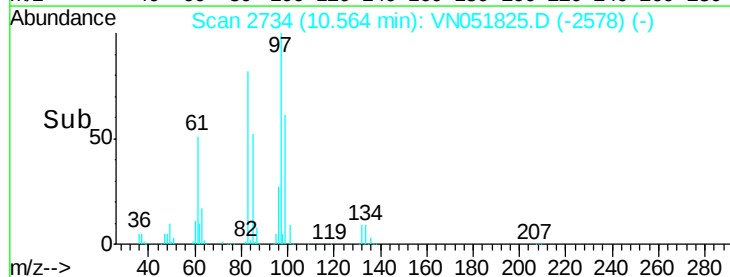
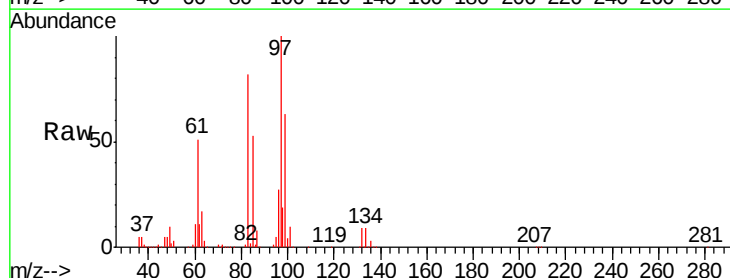
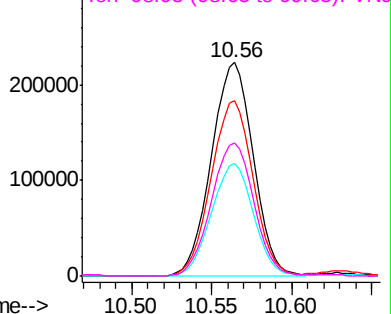
97 100

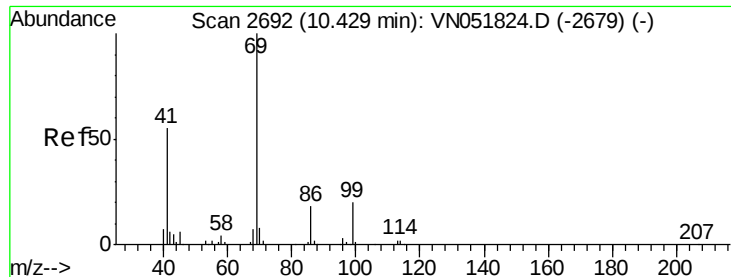
83 82.0 68.2 102.4

85 52.8 42.5 63.7

99 62.5 44.3 66.5

Abundance Ion 97.00 (96.70 to 97.70): VNO
Ion 82.95 (82.65 to 83.65): VNO
Ion 84.95 (84.65 to 85.65): VNO
Ion 98.95 (98.65 to 99.65): VNO





#51

Ethyl methacrylate

Concen: 43.94 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 69 Resp: 472808

Ion Ratio Lower Upper

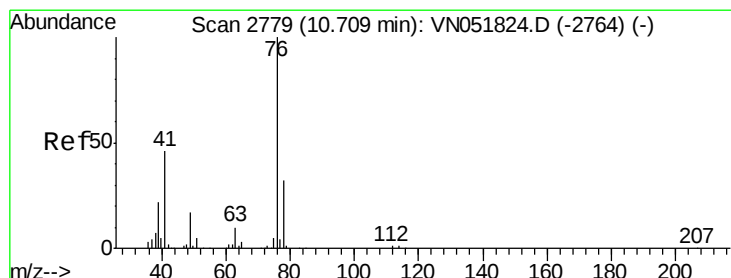
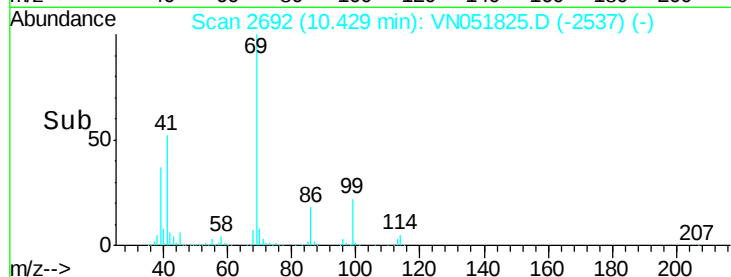
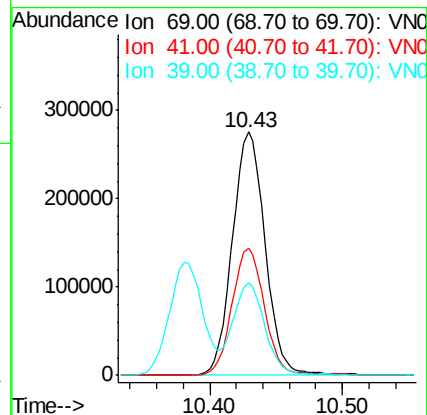
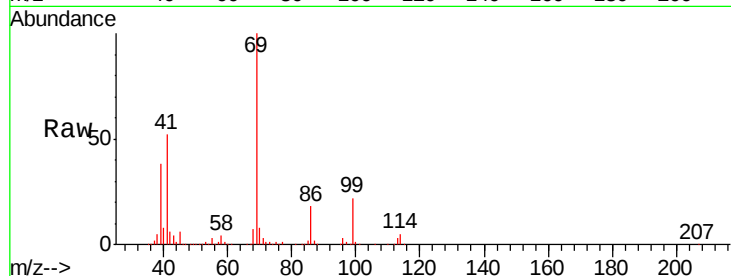
69 100

41 52.1 34.4 103.1

39 37.5 16.3 48.8

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#52

1,3-Dichloropropane

Concen: 39.87 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. -0.00 min

Lab File: VN051825.D

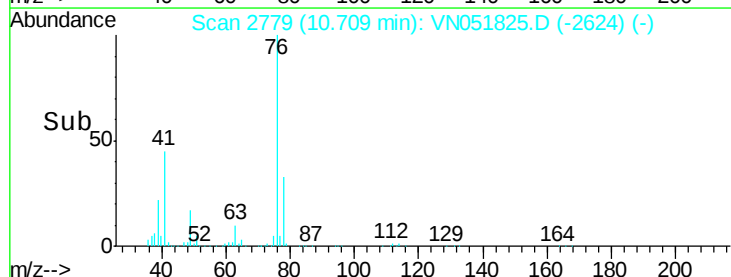
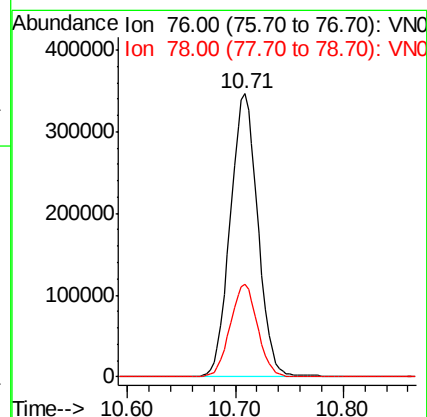
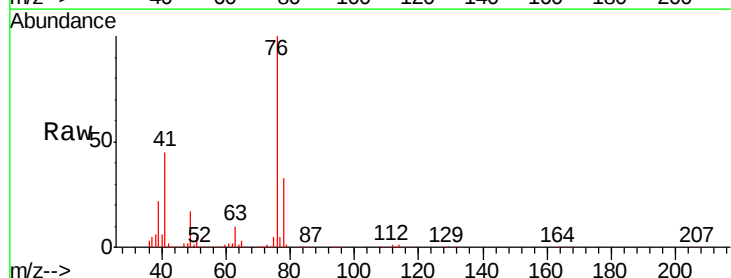
Acq: 12 Oct 2018 9:03

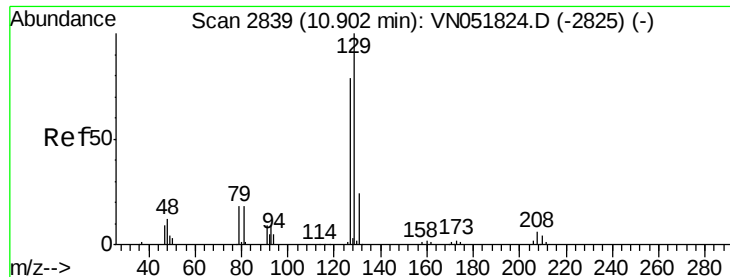
Tgt Ion: 76 Resp: 618509

Ion Ratio Lower Upper

76 100

78 32.4 0.0 67.6





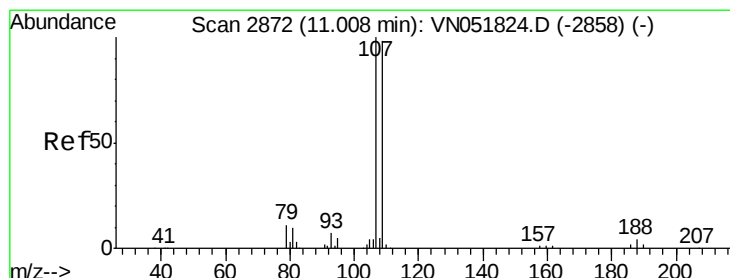
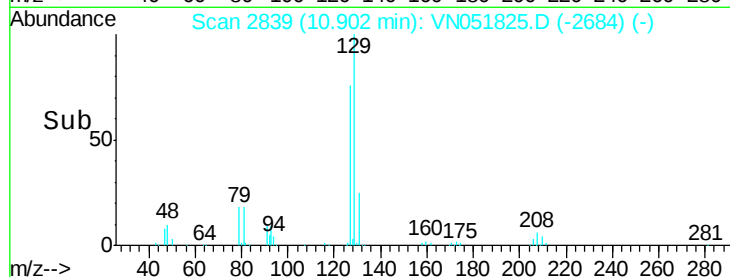
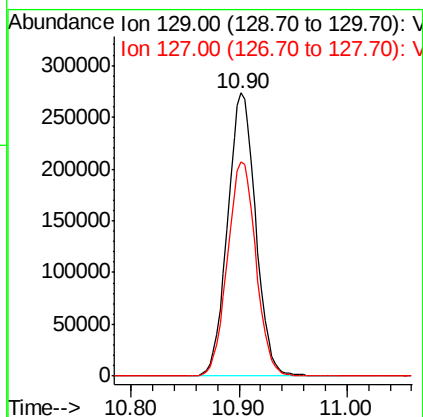
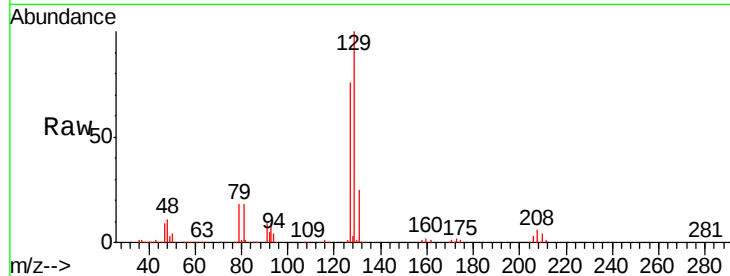
#53
Dibromochloromethane
Concen: 46.92 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.9	40.2	120.5

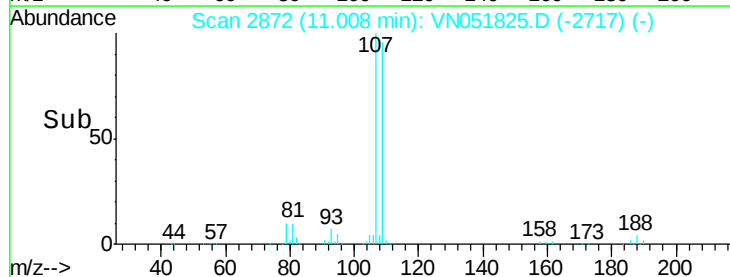
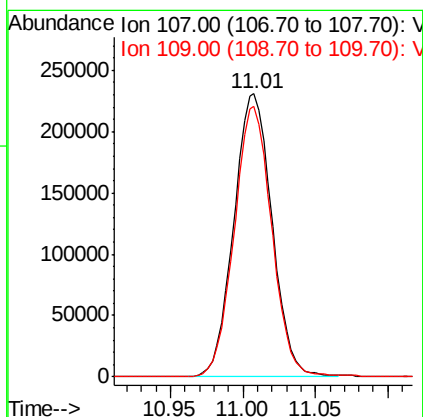
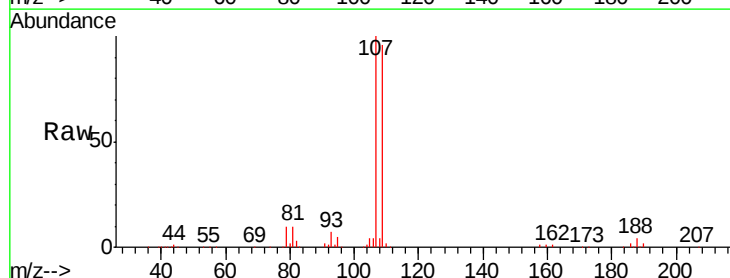
Manual Integrations
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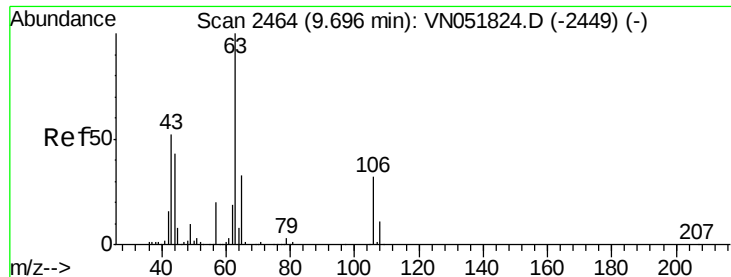
MMDadoda
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#54
1,2-Dibromoethane
Concen: 47.93 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.2	77.4	116.0





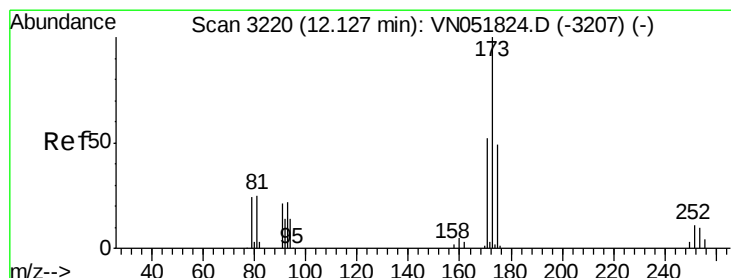
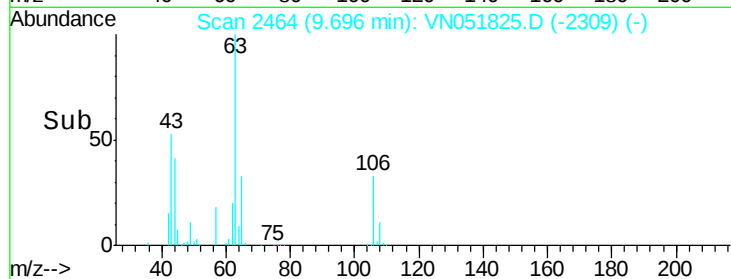
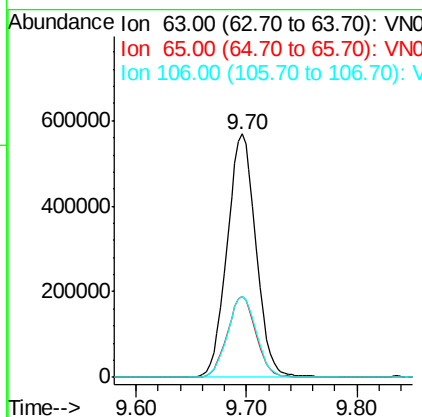
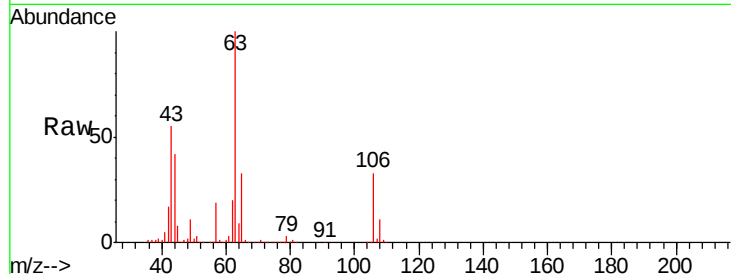
#55
 2-Chloroethyl vinyl ether
 Concen: 192.16 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion: 63 Resp: 1031253
 Ion Ratio Lower Upper
 63 100
 65 33.1 25.4 38.0
 106 33.5 21.2 31.8#

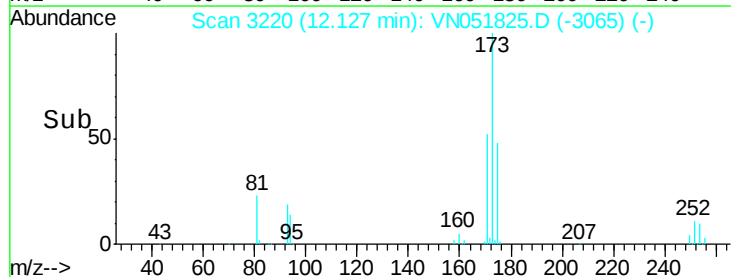
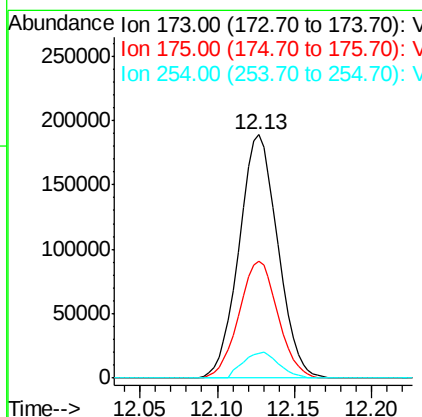
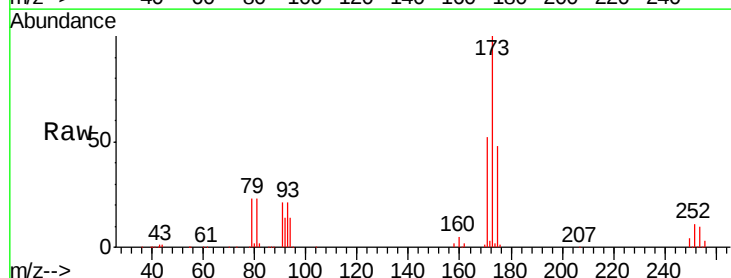
Manual Integrations
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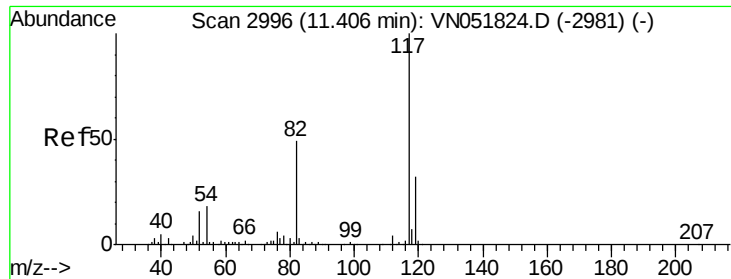
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#56
 Bromoform
 Concen: 46.59 ug/l
 RT: 12.13 min Scan# 3220
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion: 173 Resp: 330002
 Ion Ratio Lower Upper
 173 100
 175 48.2 35.8 53.8
 254 9.8 8.6 13.0





#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

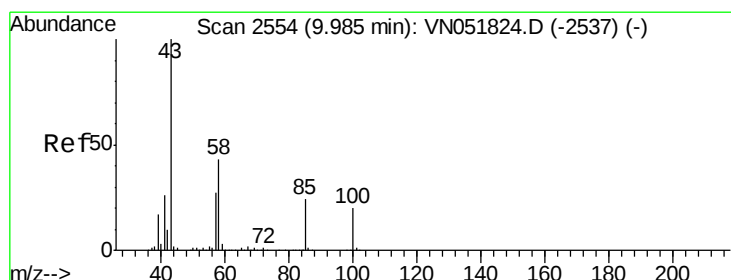
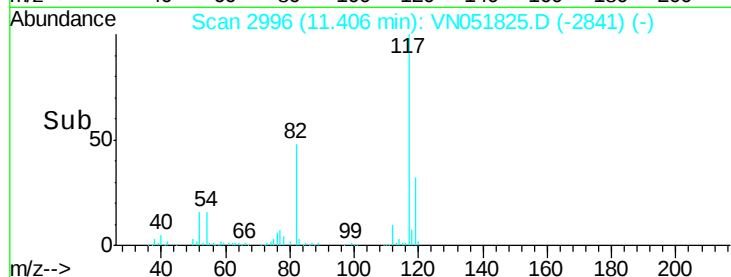
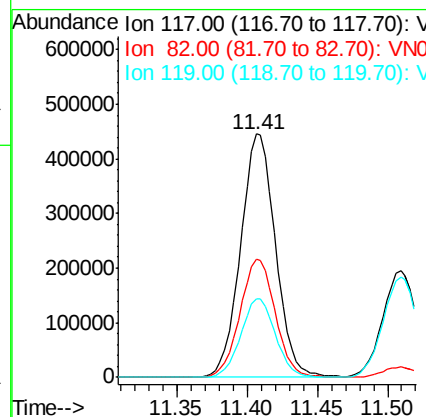
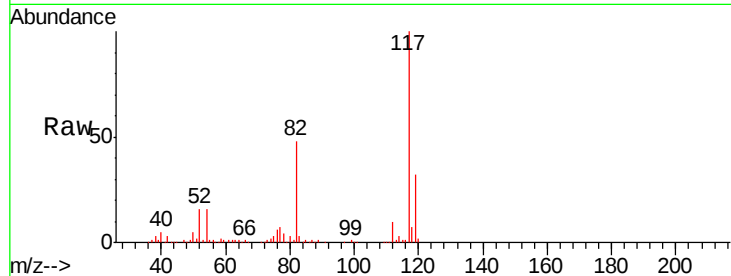
ClientSampleId :

VSTDIC050

Tgt Ion:	117	Resp:	773964
Ion Ratio	Lower	Upper	
117	100		
82	49.1	44.1	66.1
119	32.2	25.8	38.8

Manual Integrations
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#58

4-Methyl-2-Pentanone

Concen: 165.44 ug/l

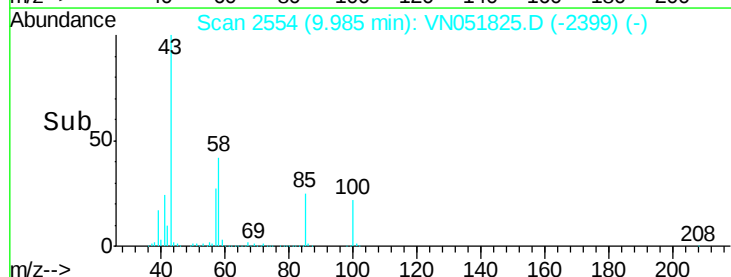
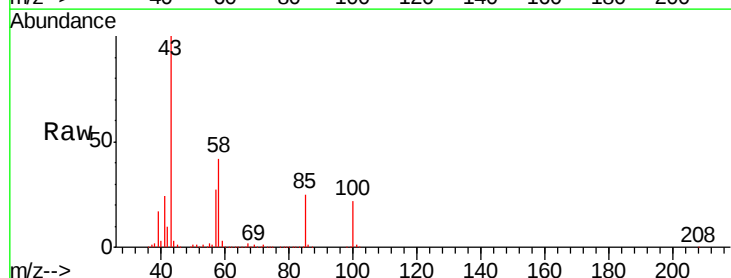
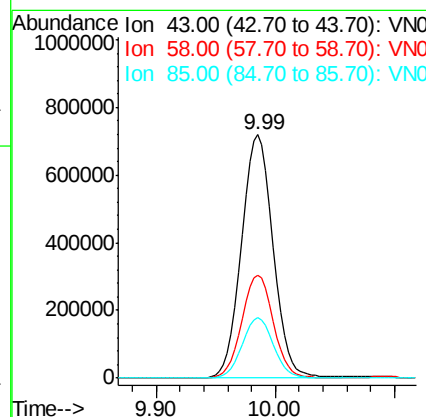
RT: 9.99 min Scan# 2554

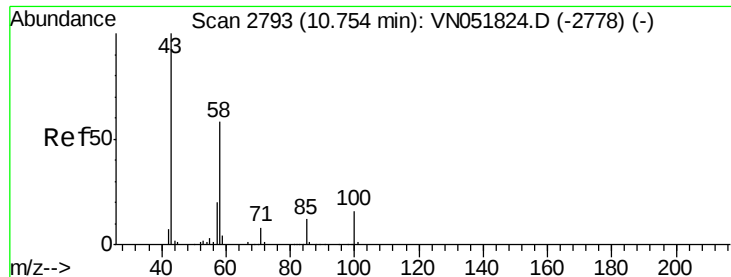
Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Tgt Ion:	43	Resp:	1323663
Ion Ratio	Lower	Upper	
43	100		
58	42.3	29.3	43.9
85	24.5	12.6	18.8#





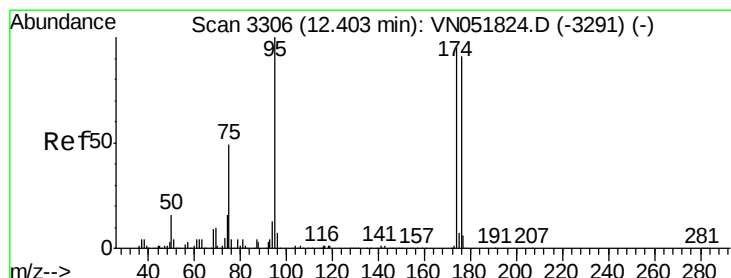
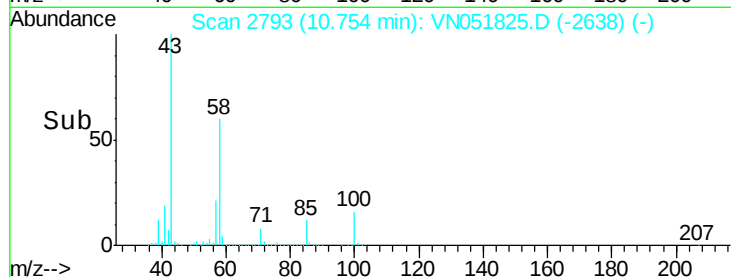
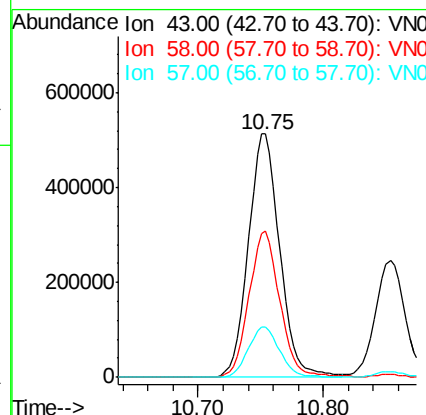
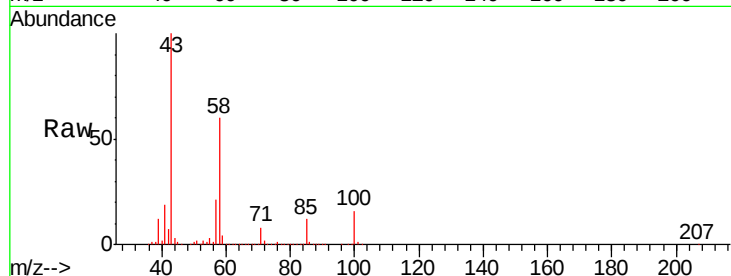
#59
2-Hexanone
Concen: 171.39 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
43	100		
58	59.3	41.3	61.9
57	21.0	13.4	20.0

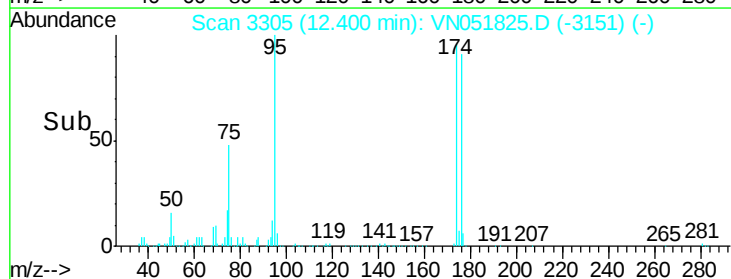
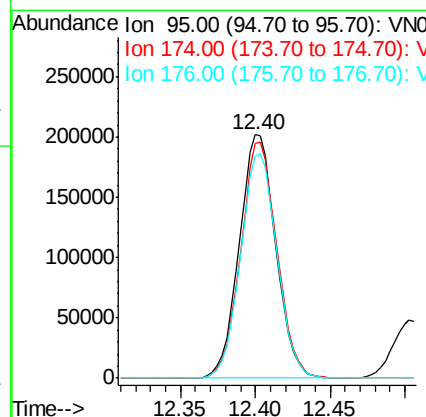
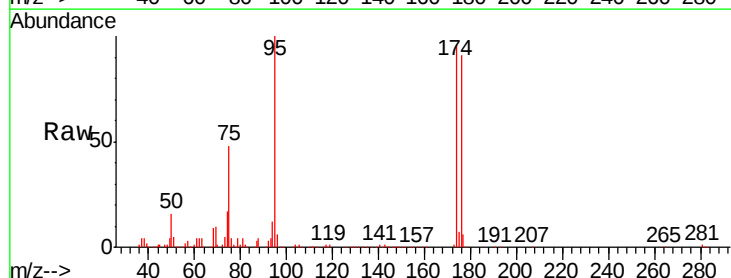
Manual Integrations
APPROVED

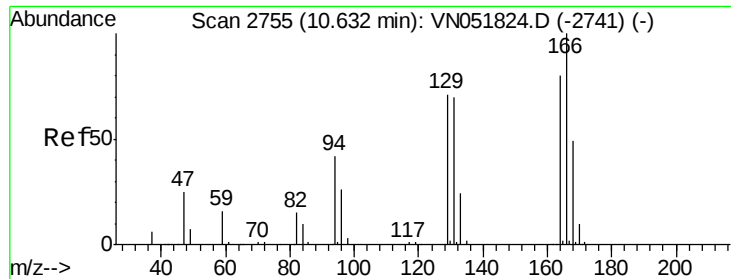
MMDadoda
10/15/2018 11:27:49 AM



#60
4-Bromofluorobenzene
Concen: 171.39 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	96.0	73.5	110.3
176	92.0	70.2	105.2





#61

Tetrachloroethene

Concen: 46.90 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:164 Resp: 497609

Ion Ratio Lower Upper

164 100

166 127.6 98.7 148.1

129 91.7 69.6 104.4

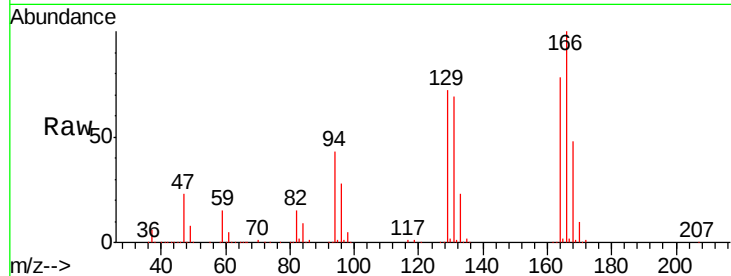
131 88.7 72.4 108.6

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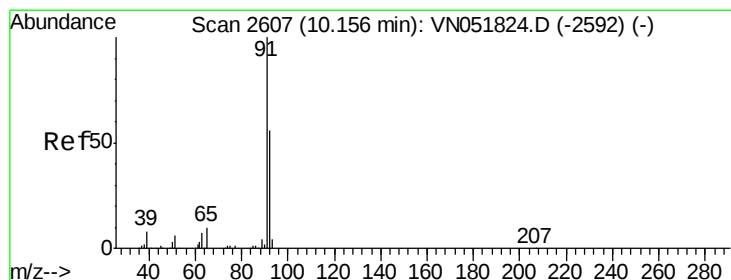
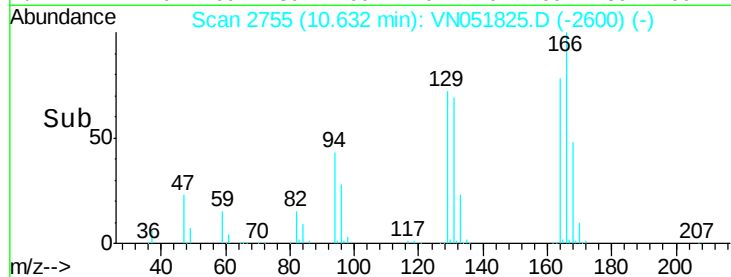
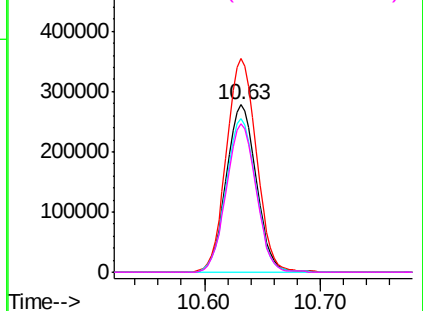


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 42.02 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051825.D

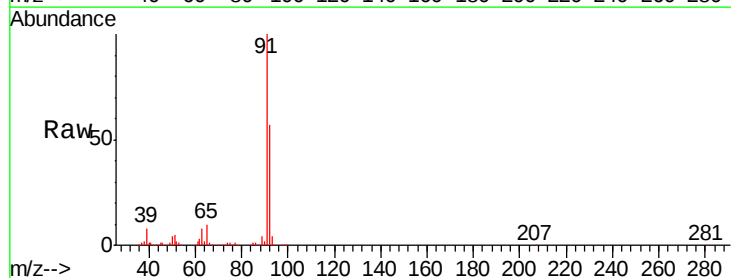
Acq: 12 Oct 2018 9:03

Tgt Ion: 91 Resp: 1962957

Ion Ratio Lower Upper

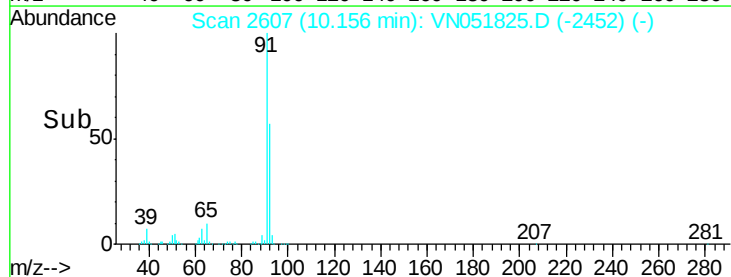
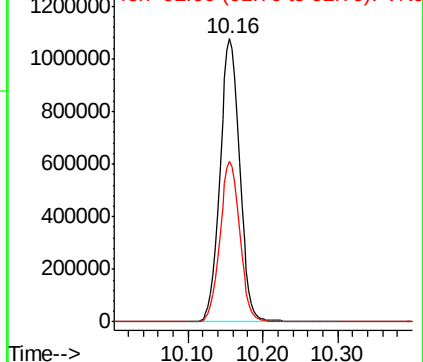
91 100

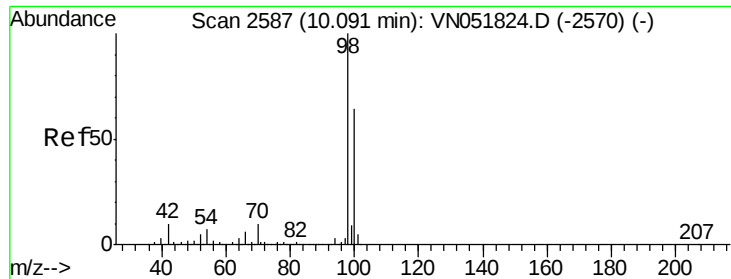
92 56.9 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 42.02 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 98 Resp: 990036

Ion Ratio Lower Upper

98 100

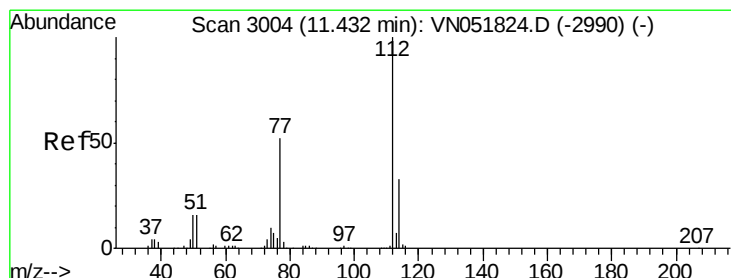
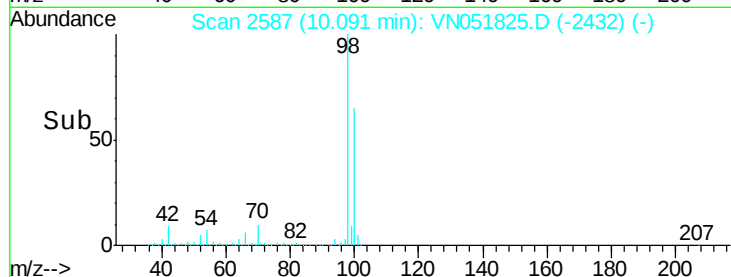
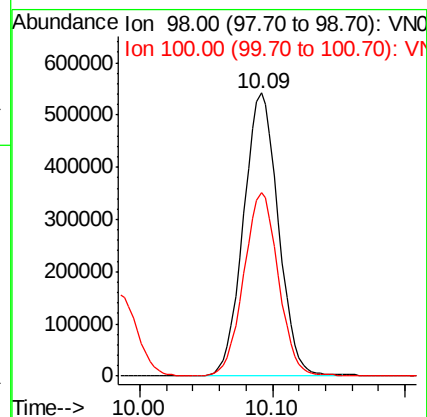
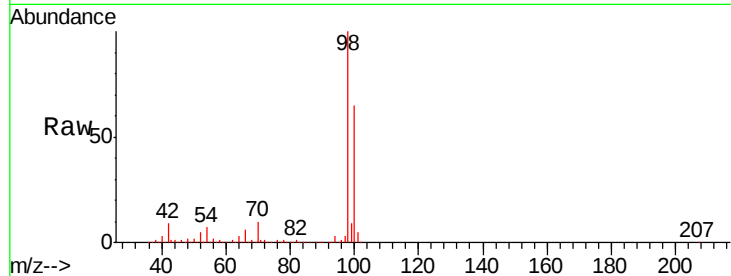
100 64.0 50.8 76.2

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#64

Chlorobenzene

Concen: 44.91 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN051825.D

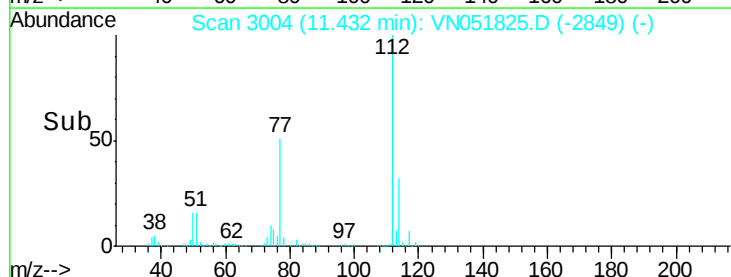
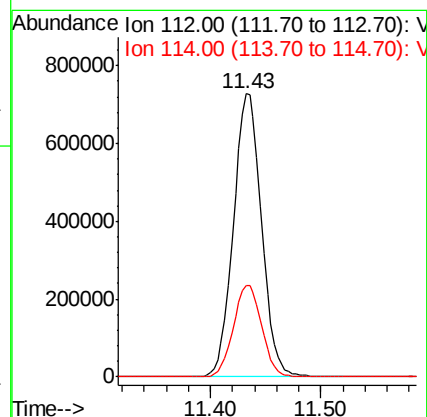
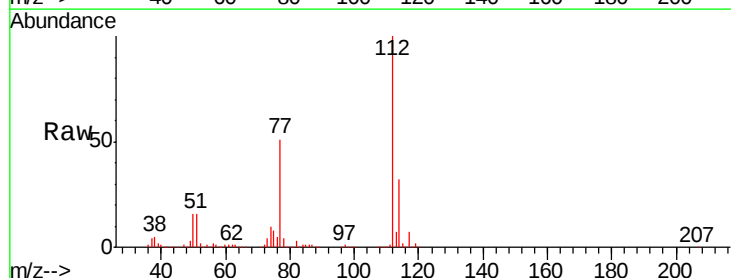
Acq: 12 Oct 2018 9:03

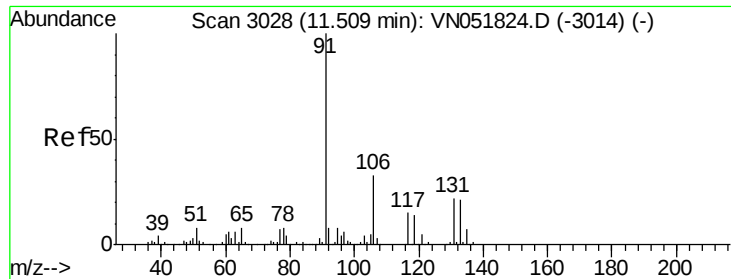
Tgt Ion: 112 Resp: 1283958

Ion Ratio Lower Upper

112 100

114 32.3 27.5 41.3





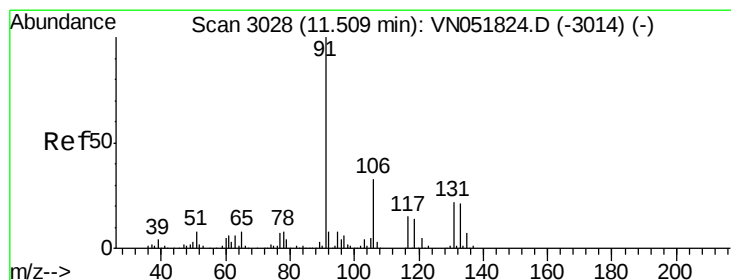
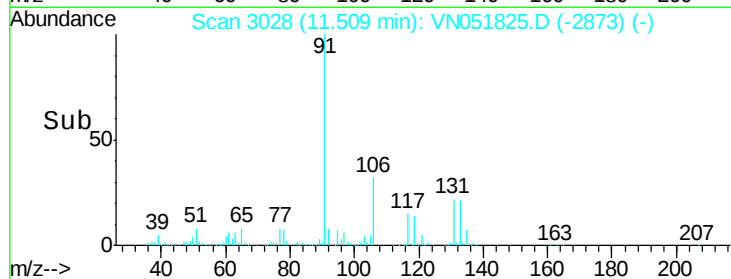
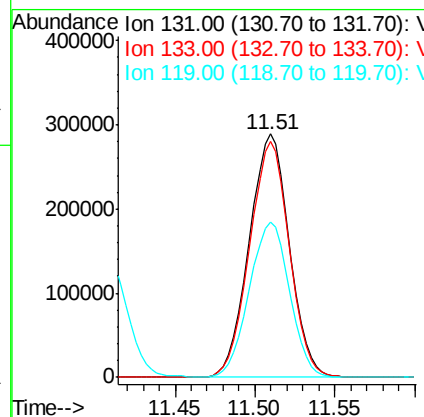
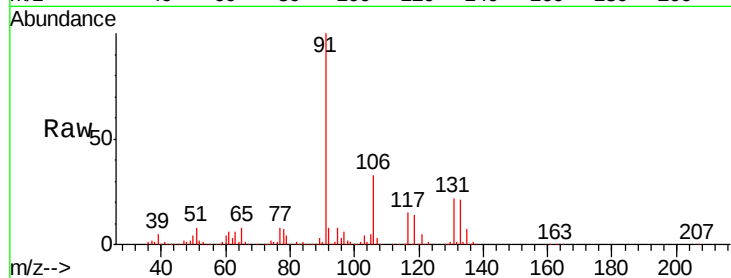
#65
 1,1,1,2-Tetrachloroethane
 Concen: 44.71 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	494992		
133	96.0	0.0	190.4	
119	64.2	0.0	128.0	

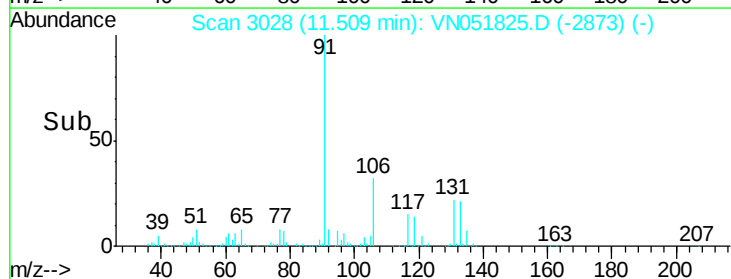
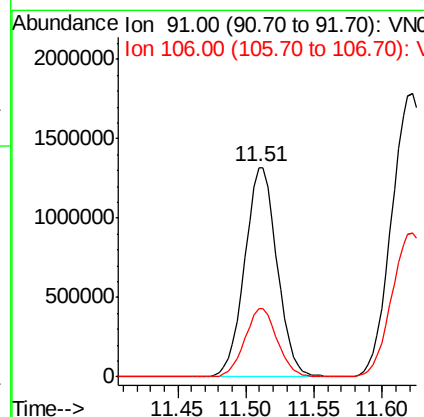
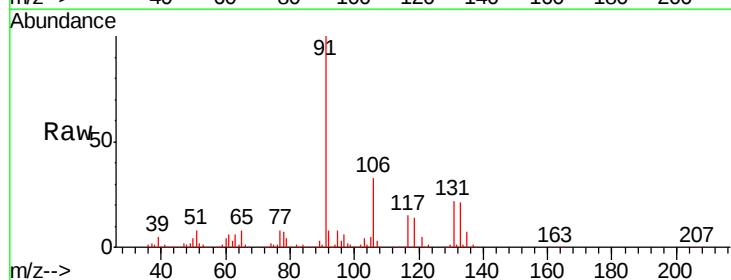
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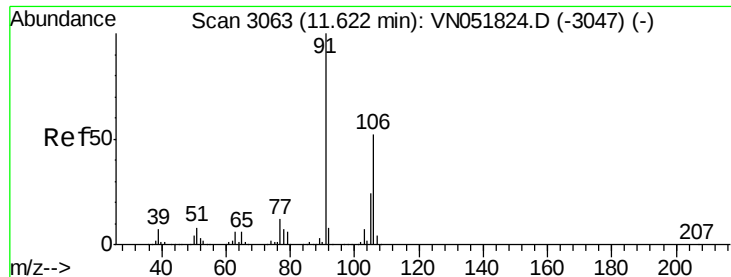
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#66
 Ethyl Benzene
 Concen: 45.37 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	2178279		
106	32.8	25.9	38.9	





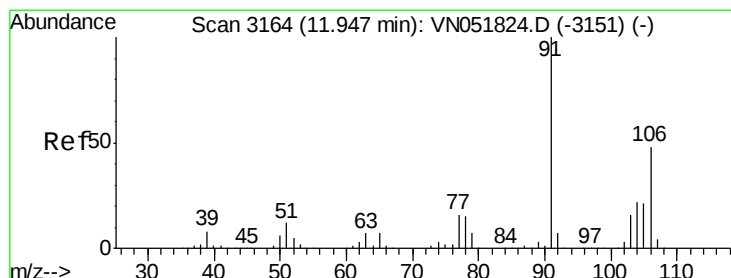
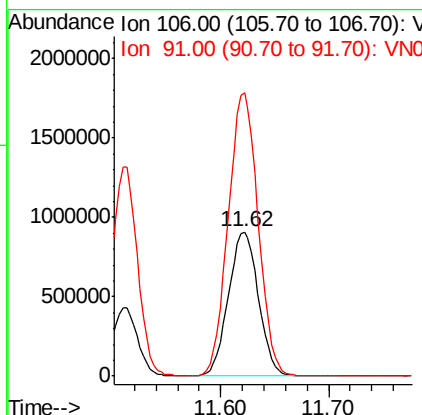
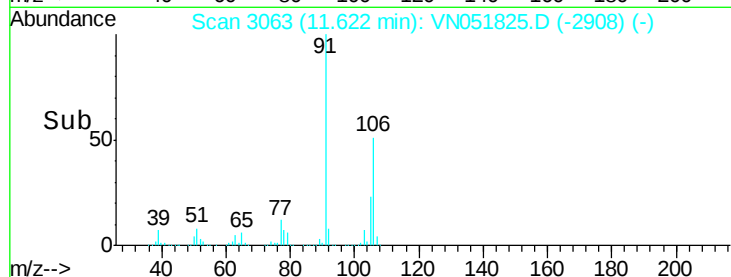
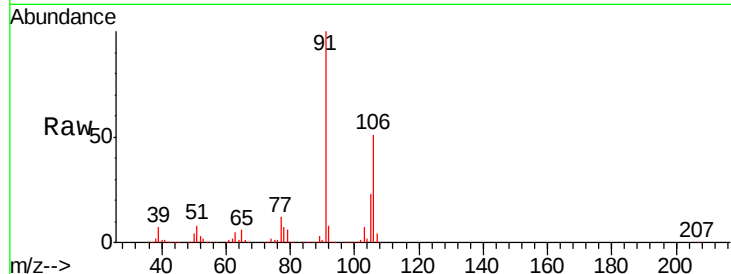
#67
m/p-Xylenes
Concen: 94.49 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:106 Resp: 1763724
Ion Ratio Lower Upper
106 100
91 195.6 158.8 238.2

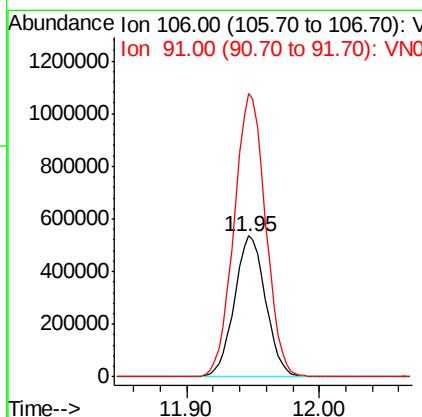
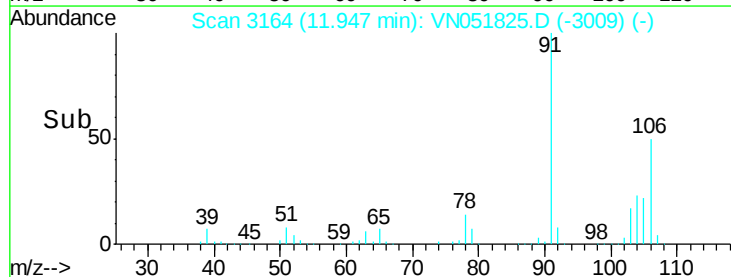
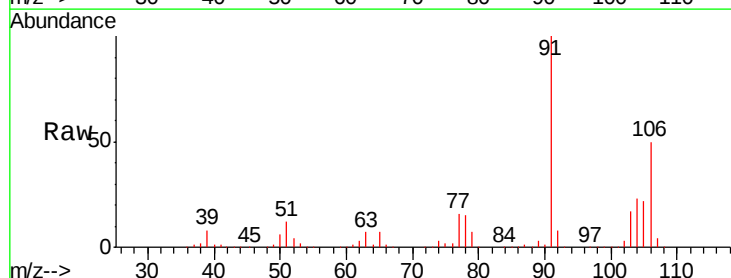
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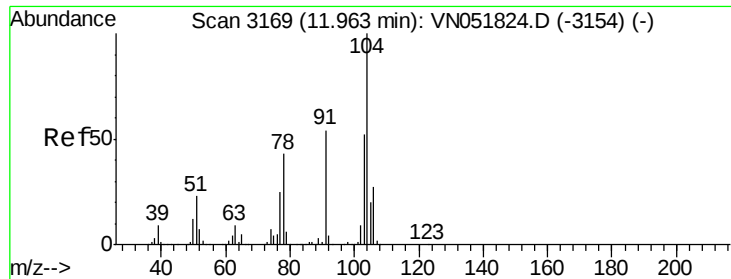
MMDadoda
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#68
o-Xylene
Concen: 49.37 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion:106 Resp: 875821
Ion Ratio Lower Upper
106 100
91 202.8 111.1 333.3





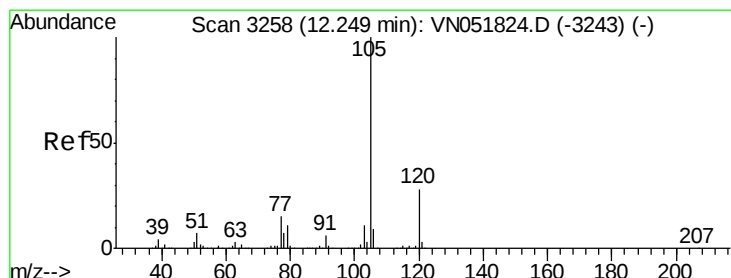
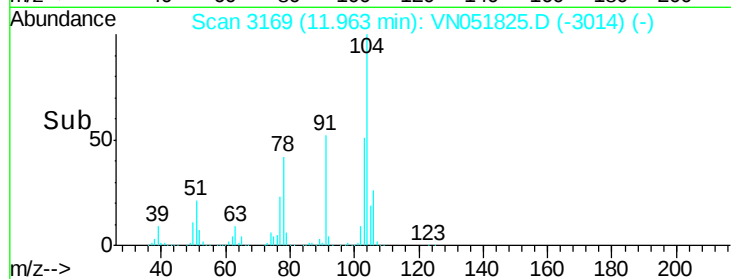
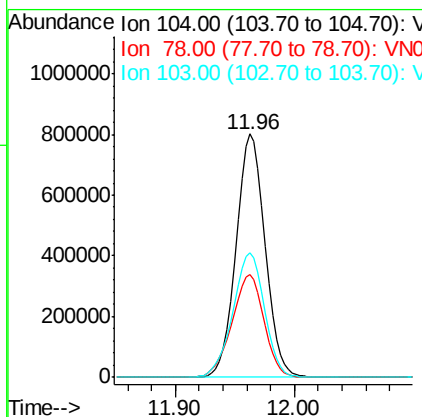
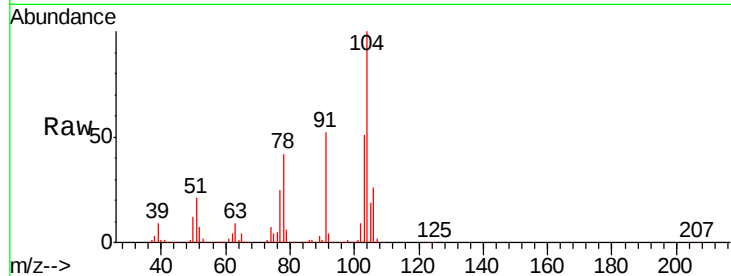
#69
Styrene
Concen: 48.10 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion:104 Resp: 1351405
Ion Ratio Lower Upper
104 100
78 46.9 40.6 60.8
103 55.9 44.0 66.0

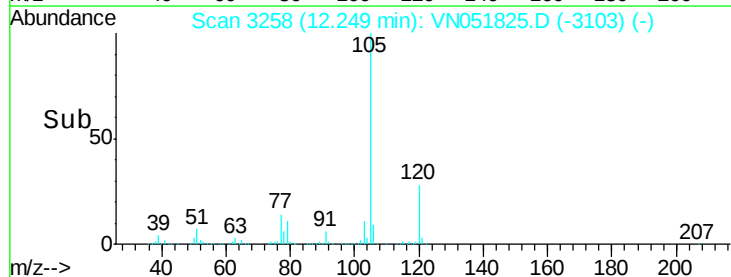
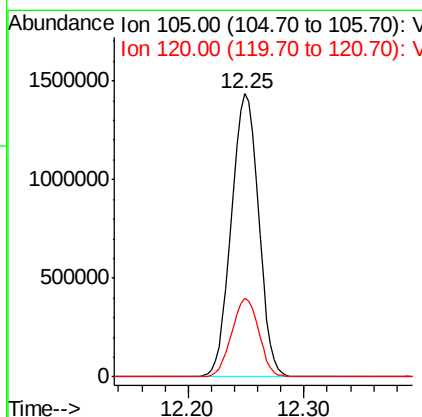
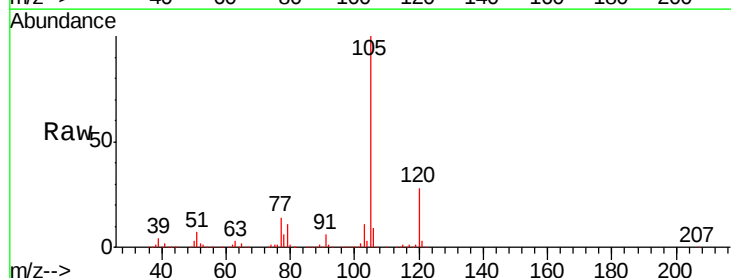
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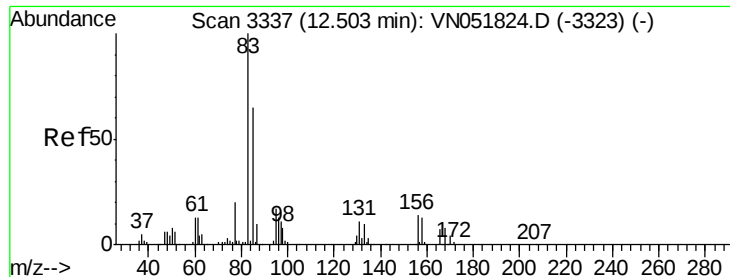
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#70
Isopropylbenzene
Concen: 48.85 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion:105 Resp: 2323015
Ion Ratio Lower Upper
105 100
120 27.6 19.0 35.4





#71

1,1,2,2-Tetrachloroethane

Concen: 42.22 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion: 83 Resp: 465481

Ion Ratio Lower Upper

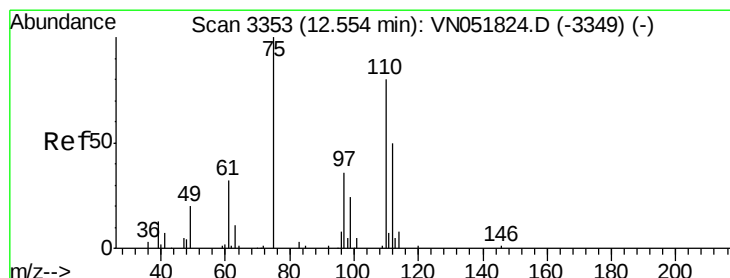
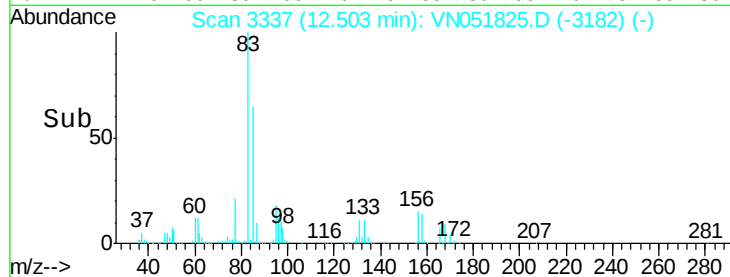
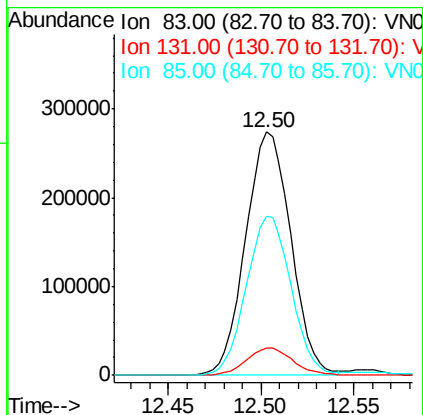
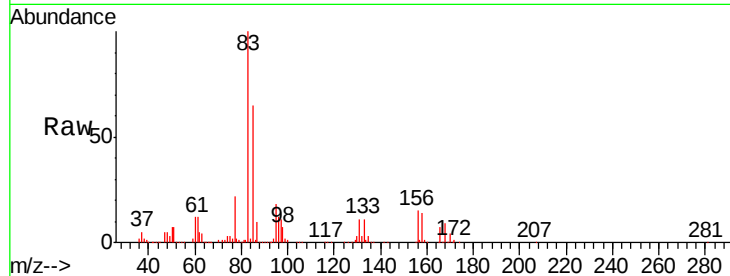
83 100

131 11.7 5.5 16.4

85 64.6 30.6 91.8

Manual Integrations
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#72

1,2,3-Trichloropropane

Concen: 37.18 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN051825.D

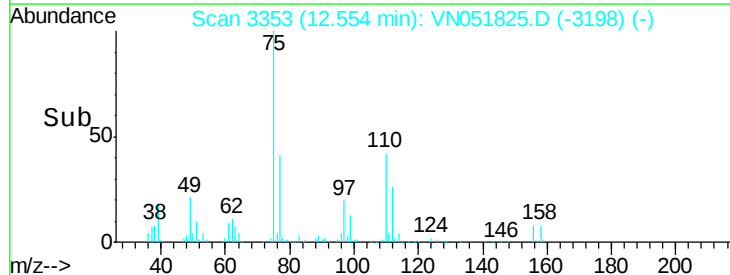
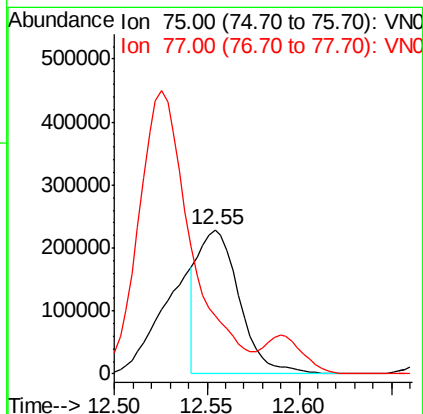
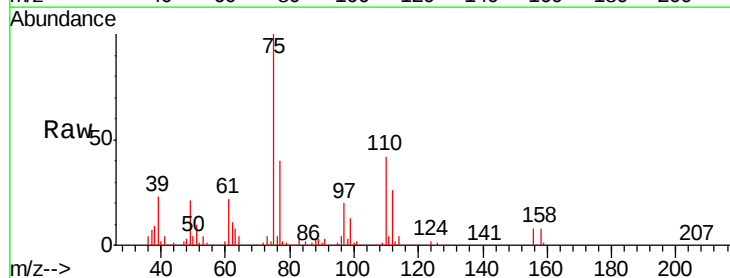
Acq: 12 Oct 2018 9:03

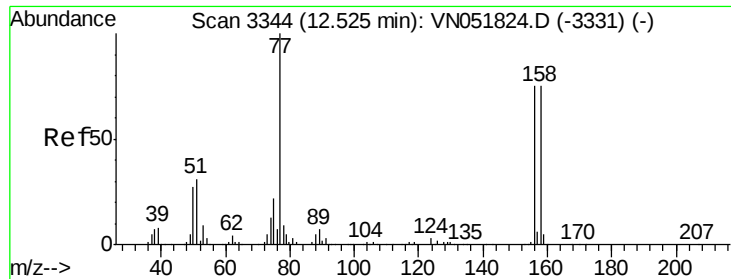
Tgt Ion: 75 Resp: 355006

Ion Ratio Lower Upper

75 100

77 250.2 0.0 400.0





#73

Bromobenzene

Concen: 48.90 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

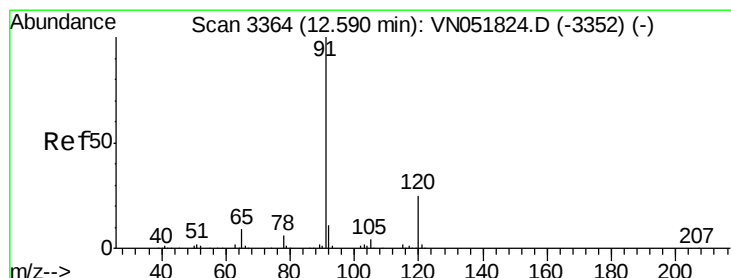
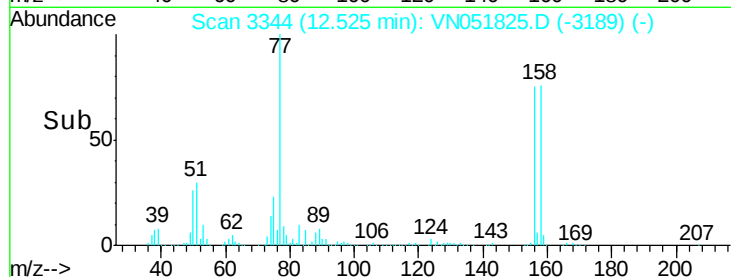
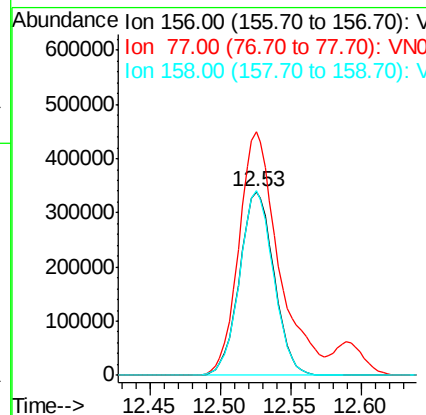
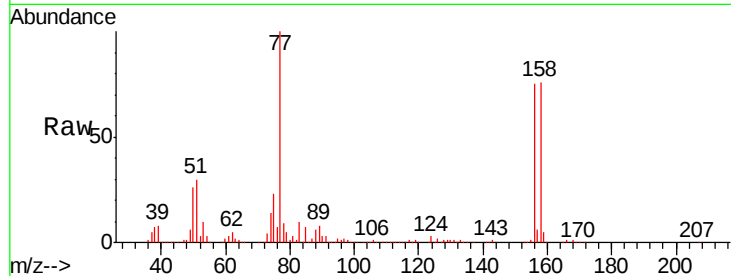
ClientSampleId :

VSTDIC050

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	580533		
77	153.0	0.0	377.4	
158	98.7	0.0	203.0	

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#74

n-propylbenzene

Concen: 45.93 ug/l

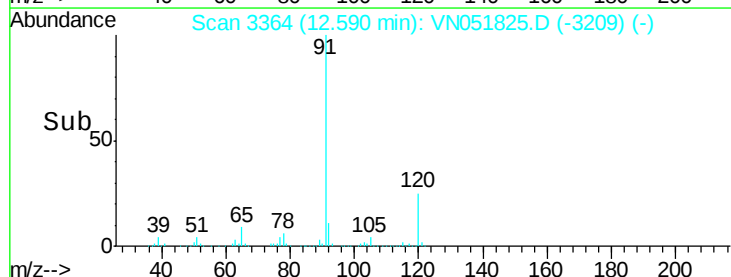
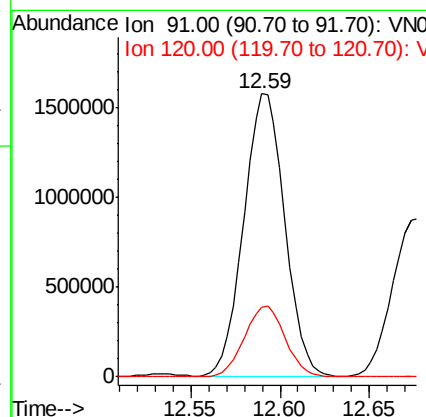
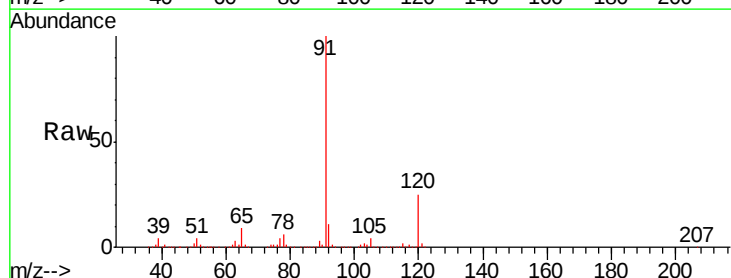
RT: 12.59 min Scan# 3364

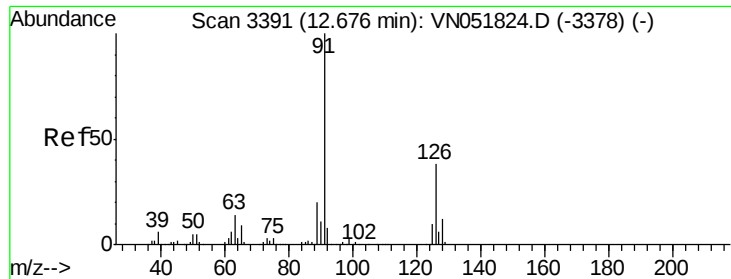
Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	2529056		
120	24.9	0.0	45.0	





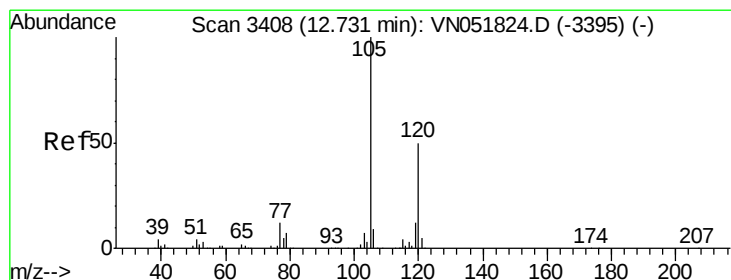
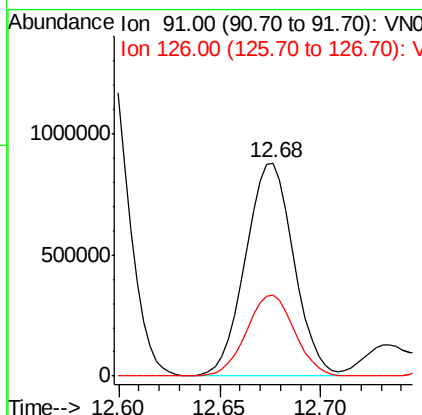
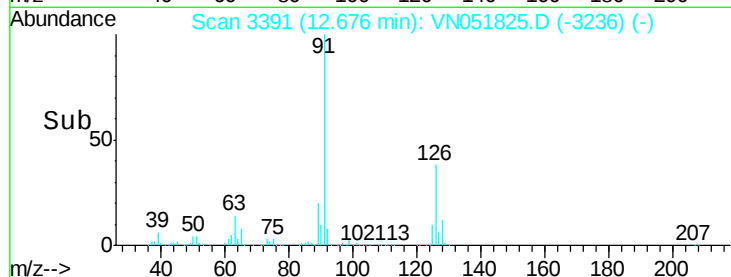
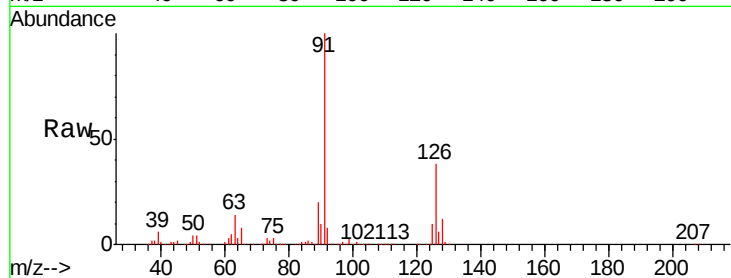
#75
 2-Chlorotoluene
 Concen: 45.35 ug/l
 RT: 12.68 min Scan# 3391
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion: 91 Resp: 1476610
 Ion Ratio Lower Upper
 91 100
 126 38.0 0.0 67.6

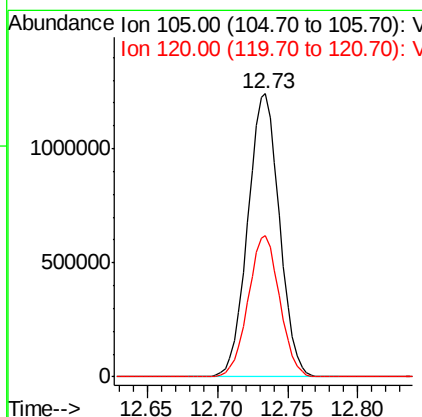
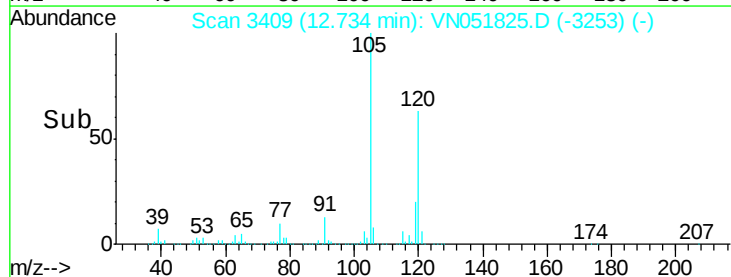
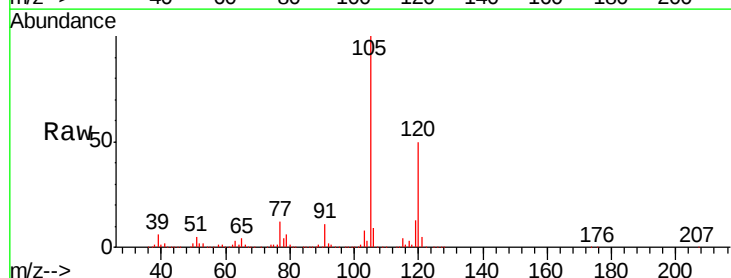
Manual Integrations
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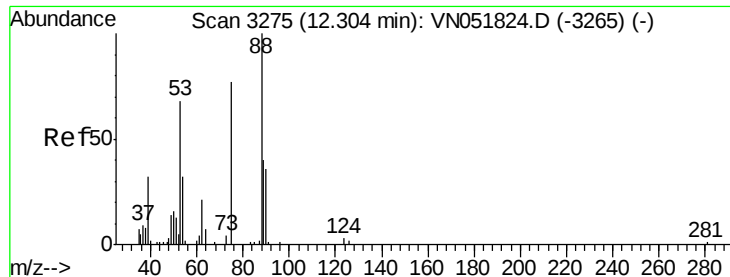
MMDadoda
 10/15/2018 11:27:49 AM



#76
 1,3,5-Trimethylbenzene
 Concen: 49.54 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion: 105 Resp: 1948361
 Ion Ratio Lower Upper
 105 100
 120 49.7 0.0 98.2





#77

t-1,4-Dichloro-2-butene

Concen: 41.76 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

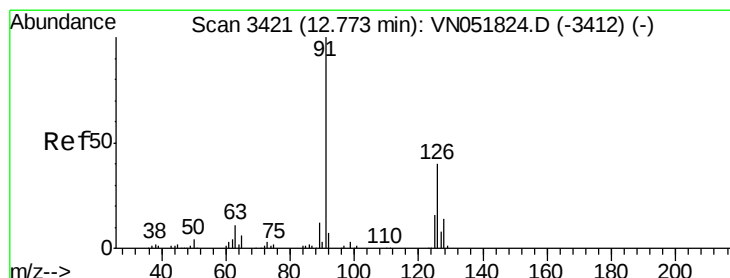
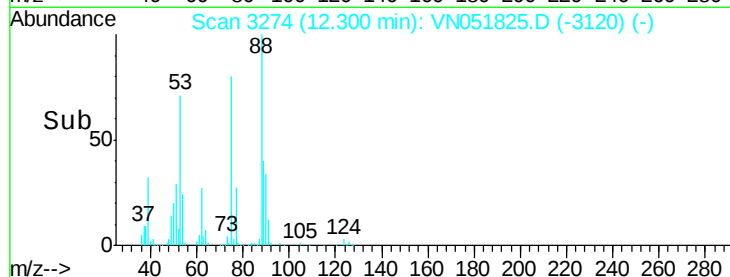
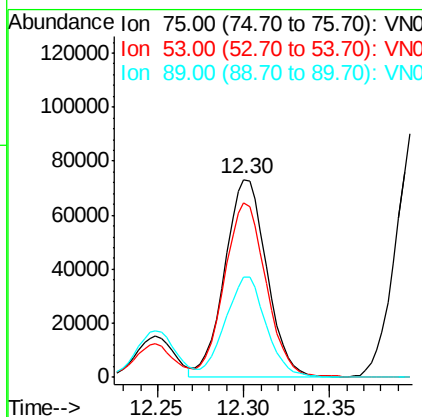
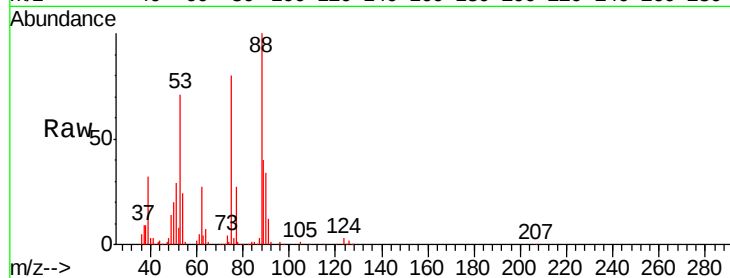
ClientSampleId :

VSTDIC050

Tgt Ion:	75	Resp:	124316
Ion	Ratio	Lower	Upper
75	100		
53	87.9	46.3	138.9
89	50.6	24.6	73.8

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#78

4-Chlorotoluene

Concen: 45.63 ug/l

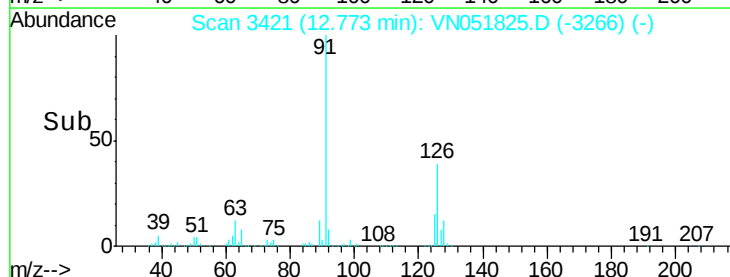
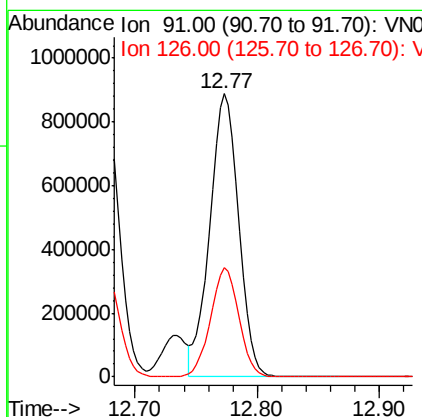
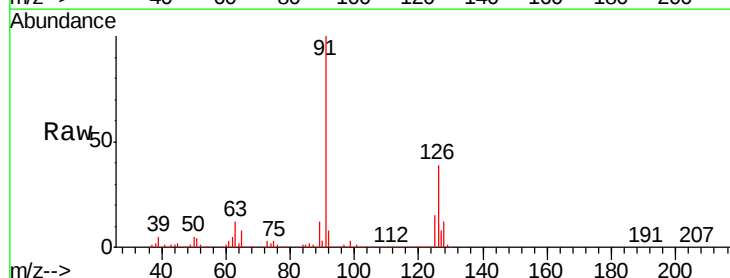
RT: 12.77 min Scan# 3421

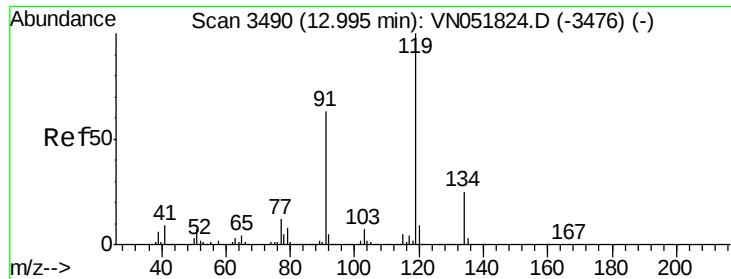
Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Tgt Ion:	91	Resp:	1475827
Ion	Ratio	Lower	Upper
91	100		
126	37.7	0.0	65.2





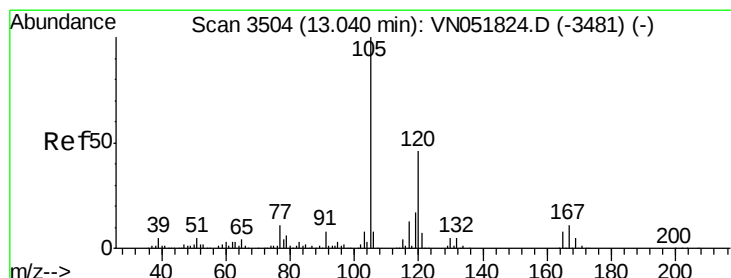
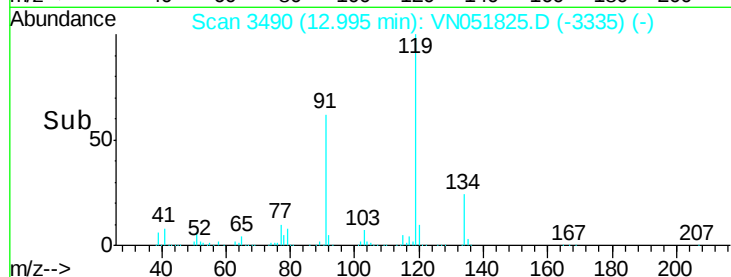
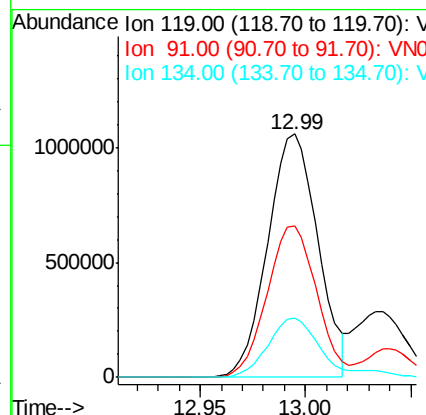
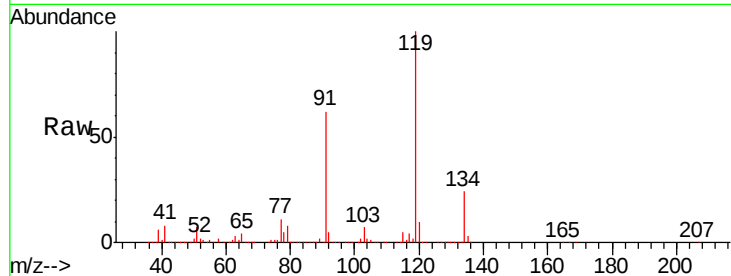
#79
tert-butylbenzene
Concen: 51.53 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
119	100		
91	61.6	0.0	131.6
134	24.7	0.0	46.2

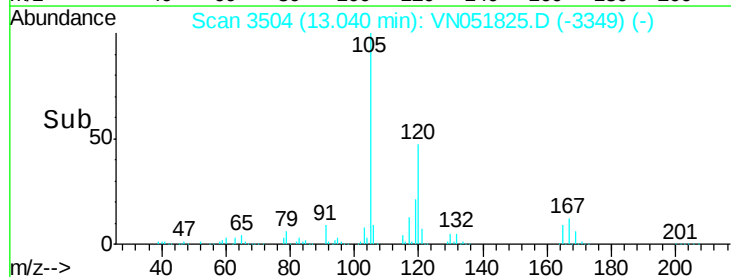
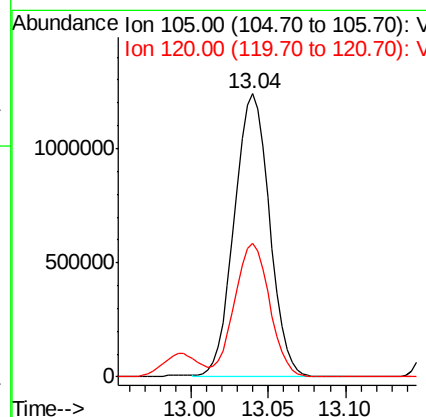
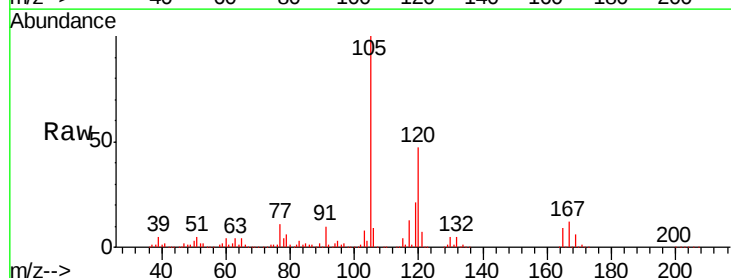
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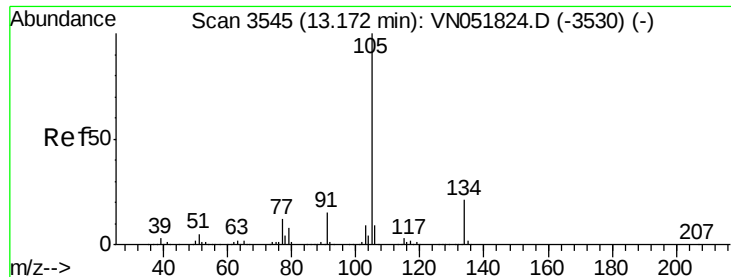
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 49.38 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.1	0.0	89.6





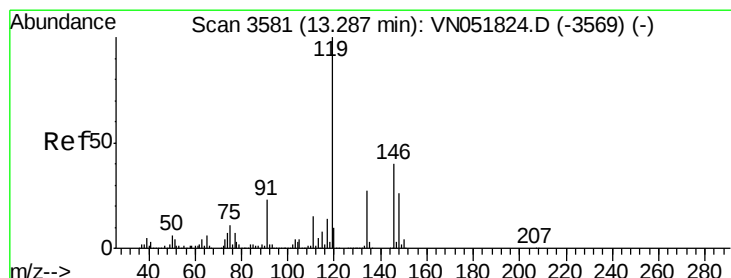
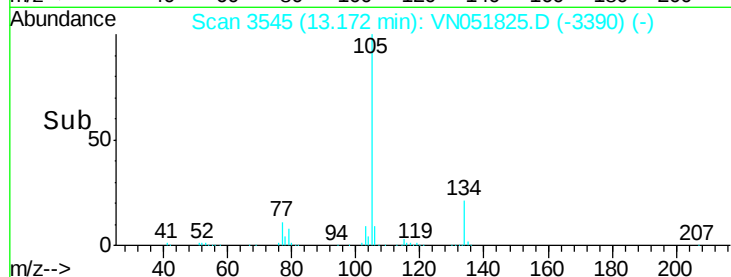
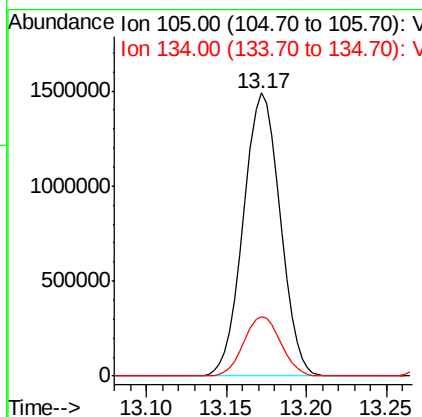
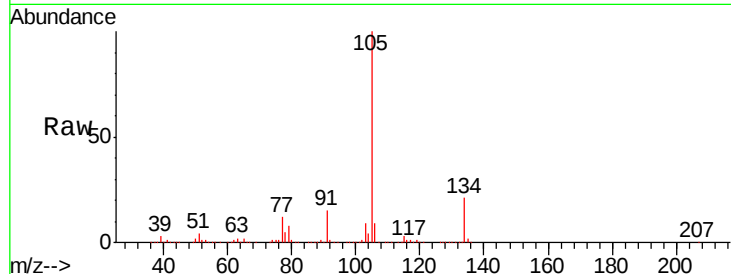
#81
 sec-Butylbenzene
 Concen: 49.87 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion:105 Resp: 2341171
 Ion Ratio Lower Upper
 105 100
 134 21.2 0.0 39.4

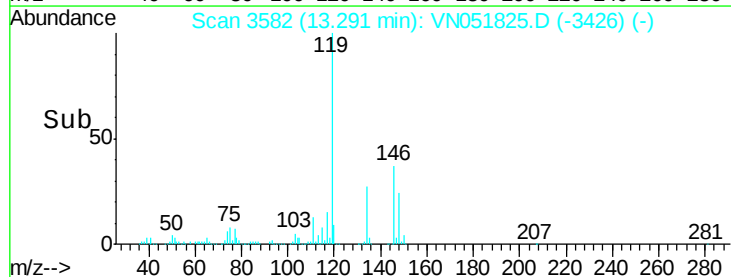
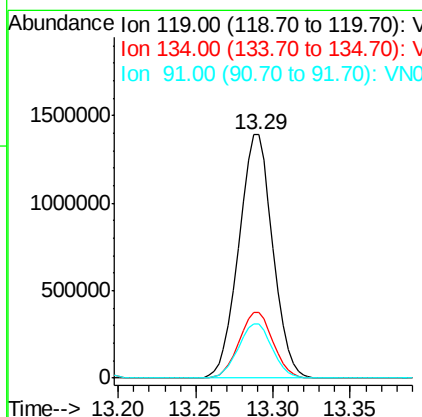
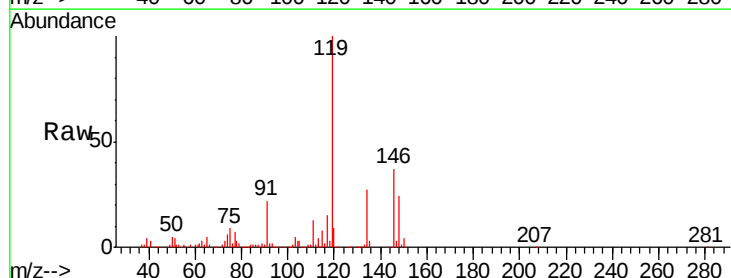
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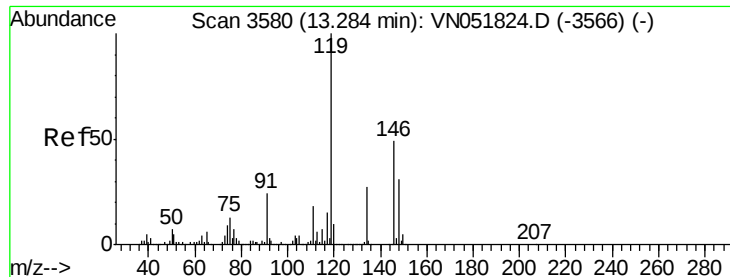
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#82
 p-Isopropyltoluene
 Concen: 52.34 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion:119 Resp: 2122975
 Ion Ratio Lower Upper
 119 100
 134 27.2 0.0 53.6
 91 22.5 0.0 52.0





#83

1,3-Dichlorobenzene

Concen: 50.33 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tgt Ion:146 Resp: 1047885

Ion Ratio Lower Upper

146 100

111 37.2 18.1 54.3

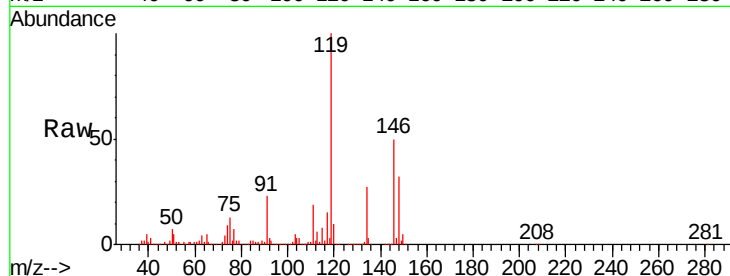
148 64.1 31.3 93.8

Manual Integrations

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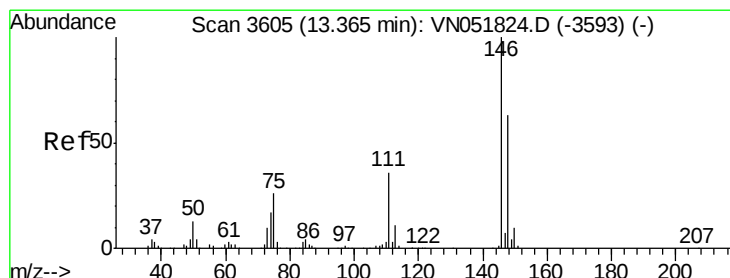
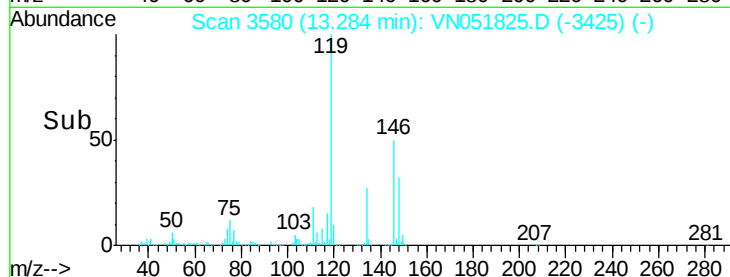
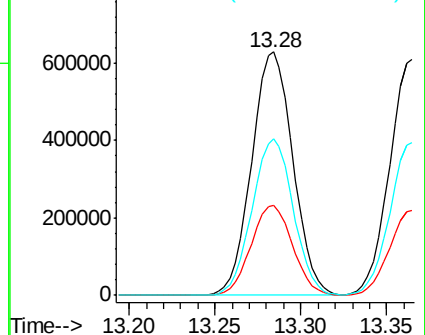
10/15/2018 11:27:49 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 50.87 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN051825.D

Acq: 12 Oct 2018 9:03

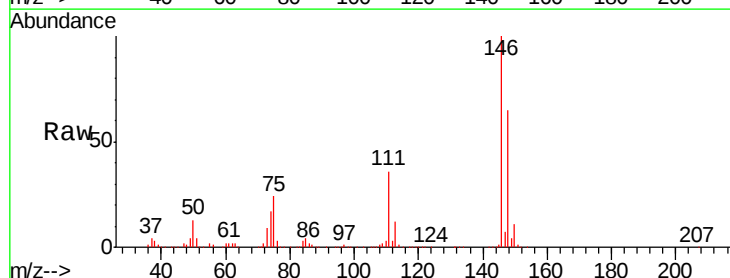
Tgt Ion:146 Resp: 996295

Ion Ratio Lower Upper

146 100

111 35.8 17.4 52.2

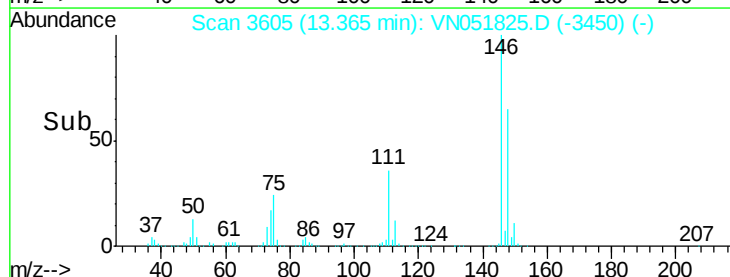
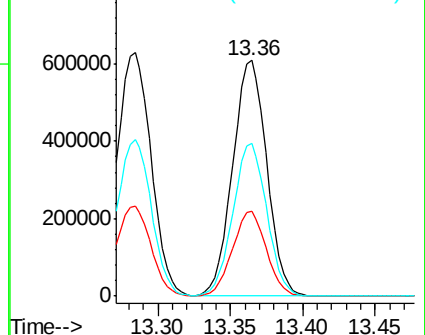
148 64.3 32.8 98.3

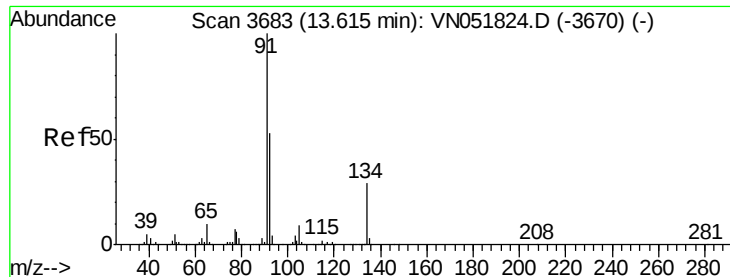


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





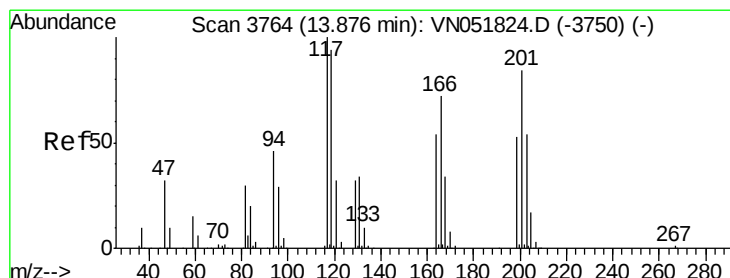
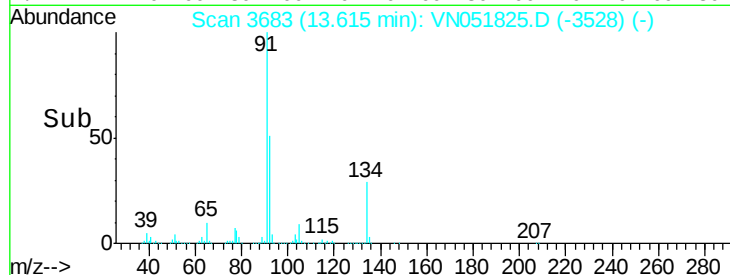
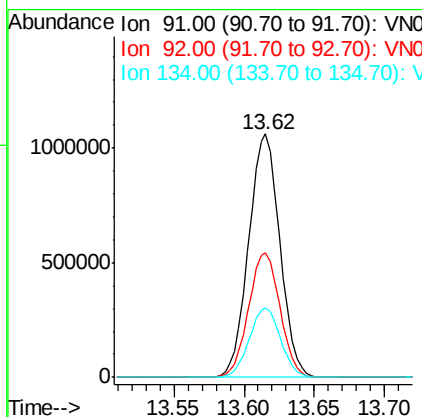
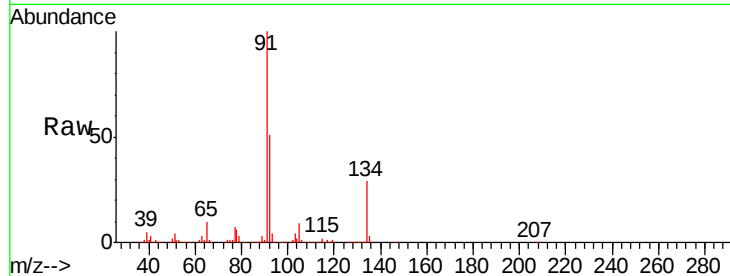
#85
n-Butylbenzene
Concen: 50.09 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.6	0.0	97.4
134	28.8	0.0	49.6

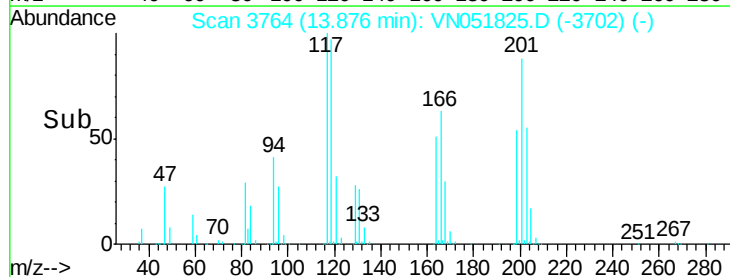
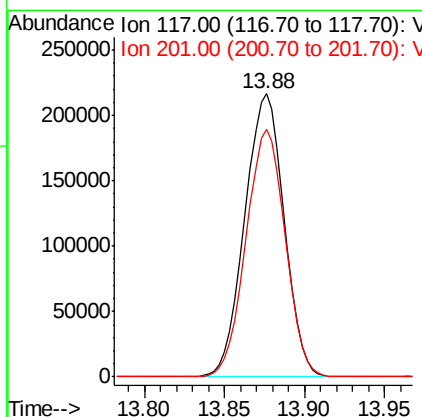
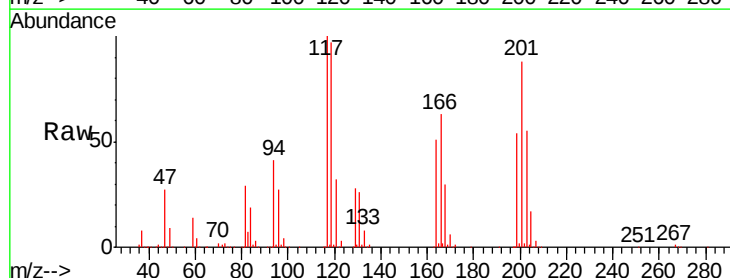
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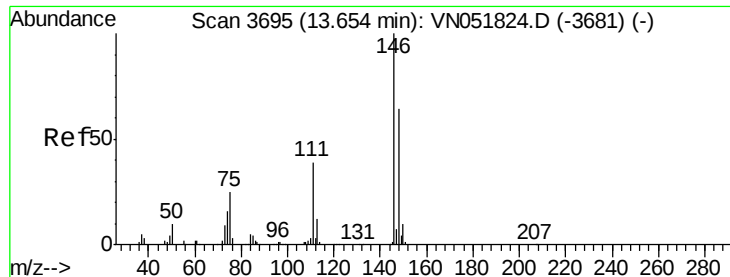
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#86
Hexachloroethane
Concen: 45.22 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.2	47.8	143.3





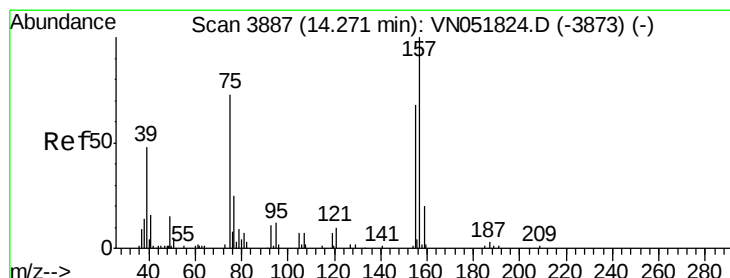
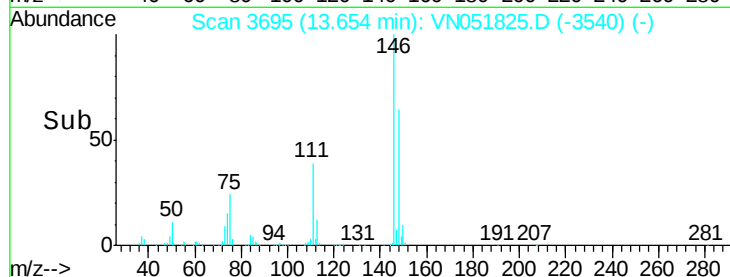
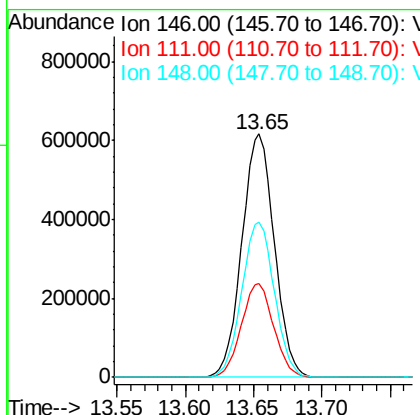
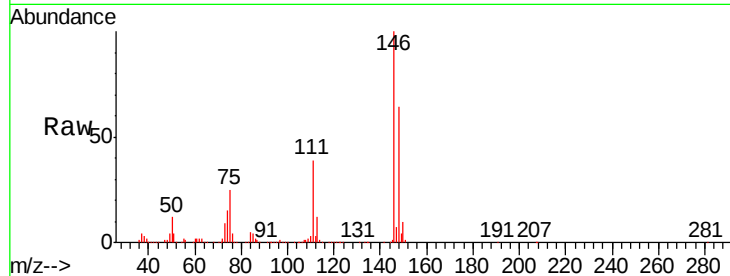
#87
 1,2-Dichlorobenzene
 Concen: 51.12 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion: 146 Resp: 1018776
 Ion Ratio Lower Upper
 146 100
 111 38.3 20.8 62.2
 148 64.1 33.2 99.6

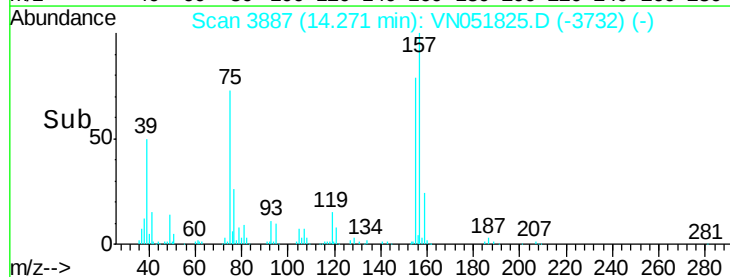
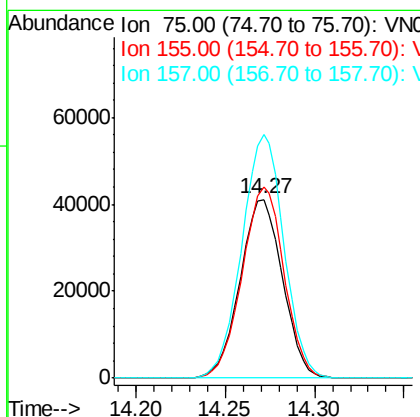
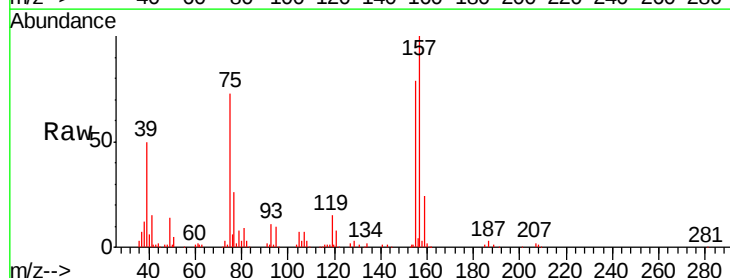
Manual Integrations
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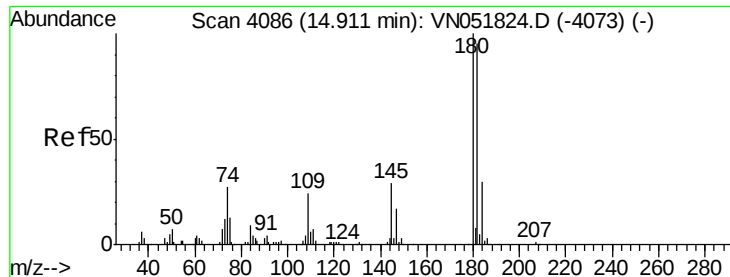
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 42.33 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion: 75 Resp: 68428
 Ion Ratio Lower Upper
 75 100
 155 105.5 57.0 85.6#
 157 134.9 87.4 131.0#





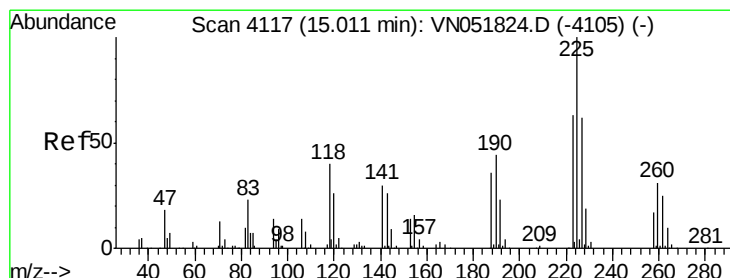
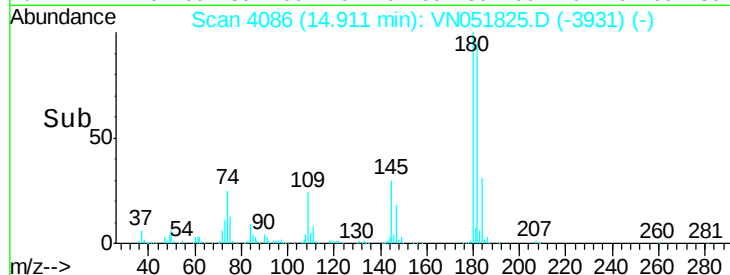
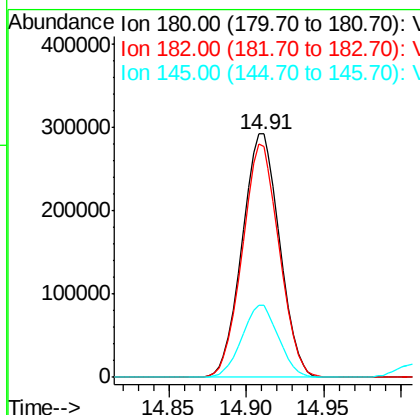
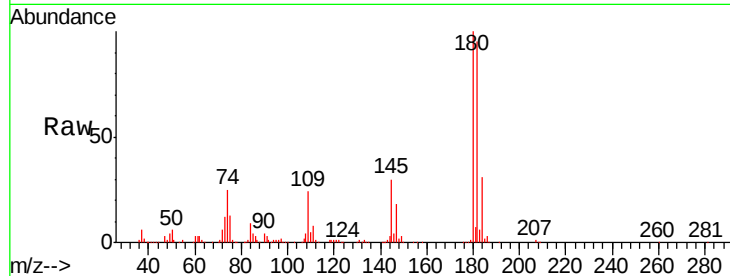
#89
 1,2,4-Trichlorobenzene
 Concen: 51.07 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	77.7	116.5
145	28.9	23.4	35.2

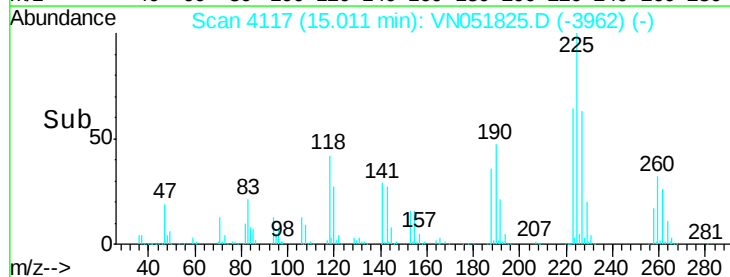
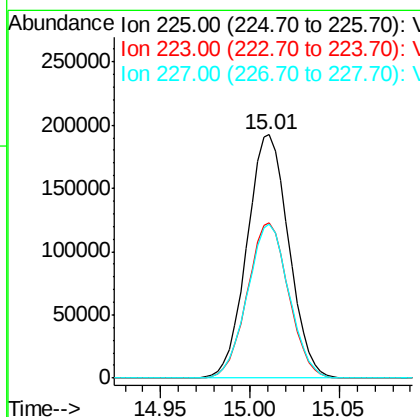
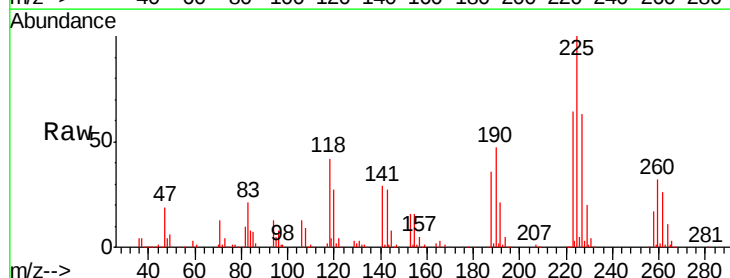
Manual Integrations
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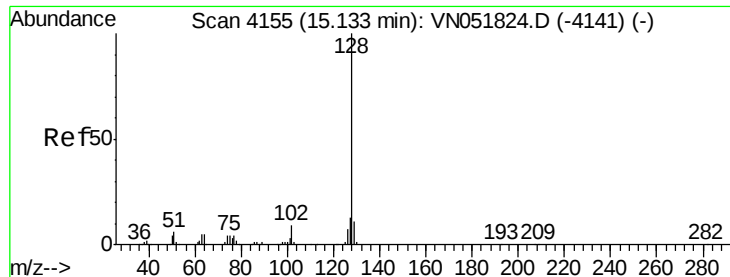
MMDadoda
 10/15/2018 11:27:49 AM



#90
 Hexachlorobutadiene
 Concen: 41.56 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051825.D
 Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	0.0	117.0
227	63.1	0.0	127.0





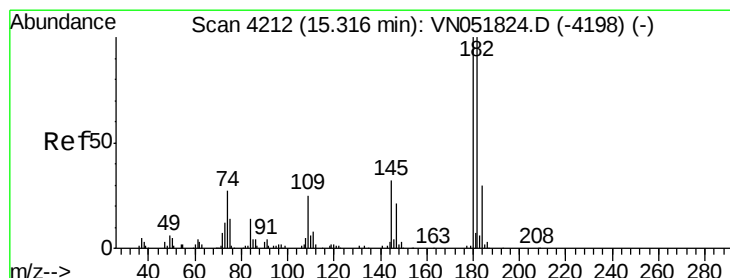
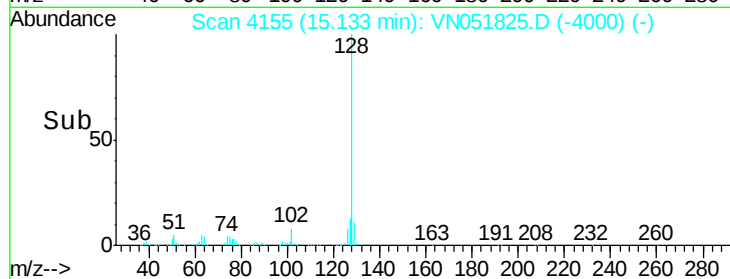
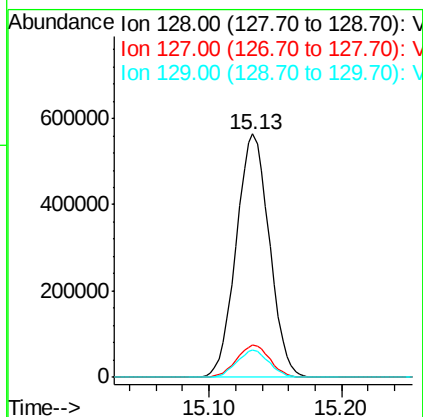
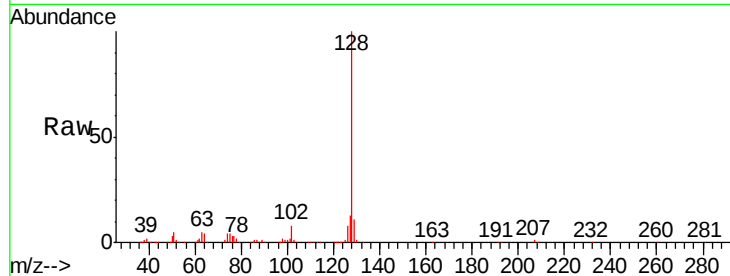
#91
Naphthalene
Concen: 55.28 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.1	15.1
129	10.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
10/15/2018 11:27:49 AM



#92
1,2,3-Trichlorobenzene
Concen: 49.62 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN051825.D
Acq: 12 Oct 2018 9:03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	0.0	198.0
145	30.1	0.0	36.8

