

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092818\
 Data File : VN051611.D
 Acq On : 28 Sep 2018 9:53
 Operator : MD\SY
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 10/3/2018 5:27:37 PM

Quant Time: Sep 29 00:59:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	111956	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	618614	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	560653	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	230579	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	12.40	95	276681	32.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	106.97%
63) Toluene-d8	10.09	98	767802	29.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	1532543	155.981	ug/l 99
3) Chloromethane	2.06	50	1677990	152.616	ug/l 100
4) Vinyl Chloride	2.18	62	1627410	150.882	ug/l 98
5) Bromomethane	2.55	94	880994	157.248	ug/l 99
6) Chloroethane	2.70	64	793671	146.680	ug/l 98
7) Trichlorofluoromethane	3.01	101	1999415	151.721	ug/l 99
8) Diethyl Ether	3.41	74	646936	156.294	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	1102324	147.981	ug/l 97
10) 1,1-Dichloroethene	3.73	96	1031675	152.612	ug/l 98
11) Methyl Iodide	3.95	142	1563153	179.635	ug/l 99
12) Methyl Acetate	4.33	43	860810	144.284	ug/l 95
13) Acrolein	3.61	56	536991	814.685	ug/l 98
14) Acrylonitrile	4.99	53	1904759	797.199	ug/l 99
15) Acetone	3.82	58	449423	717.397	ug/l 94
16) Carbon Disulfide	4.05	76	3285258	150.809	ug/l 99
17) Allyl chloride	4.32	41	1931057	159.686	ug/l 99
18) Methylene Chloride	4.55	84	1135931	146.159	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	1088085	151.628	ug/l 98
20) Diisopropyl ether	5.95	45	3729339	155.456	ug/l 97
21) 1,1-Dichloroethane	5.85	63	2110274	148.421	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	1221393	155.848	ug/l 99
23) tert-Butyl Alcohol	4.79	59	360733	792.254	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	2872593	161.685	ug/l 99
25) Chloroform	7.37	83	2024640	148.930	ug/l 100
26) Cyclohexane	7.65	56	2042526	166.006	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	1651253	156.538	ug/l 99
30) 2-Butanone	6.84	43	2189735	762.719	ug/l 100
31) 2,2-Dichloropropane	6.83	77	1704218	149.692	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	1766988	149.085	ug/l 99
33) Carbon Tetrachloride	7.78	117	1618337	151.921	ug/l 99
34) Benzene	8.04	78	4715192	150.665	ug/l # 91
35) Methacrylonitrile	7.18	41	578216	173.751	ug/l 97
36) 1,2-Dichloroethane	8.13	62	1478697	148.232	ug/l 99
37) Trichloroethene	8.84	130	1214838	151.193	ug/l 99
38) Methylcyclohexane	9.08	83	2034239	167.122	ug/l 96
39) 1,2-Dichloropropane	9.12	63	1287911	150.186	ug/l 99
40) Dibromomethane	9.21	93	715248	150.147	ug/l 98

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 VSTDICC150

Manual Integrations
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 10/3/2018 5:27:37 PM

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Sep 29 00:34:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1575075	151.475	ug/l	100
42) Vinyl Acetate	5.90	43	12995453	813.077	ug/l	99
43) Ethyl Acetate	6.93	43	970925	159.773	ug/l	100
44) Isopropyl Acetate	8.17	43	1823073	153.216	ug/l	98
45) 1,4-Dioxane	9.20	88	212696	3308.894	ug/l	98
46) Methyl methacrylate	9.20	41	924864	167.089	ug/l	96
47) n-amyl Acetate	12.07	43	1695006	190.390	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	1707750	164.551	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	1948789	160.611	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	995313	147.849	ug/l	99
51) Ethyl methacrylate	10.43	69	1420329	173.893	ug/l	98
52) 1,3-Dichloropropane	10.71	76	1767052	153.090	ug/l	99
53) Dibromochloromethane	10.90	129	1191608	155.415	ug/l	100
54) 1,2-Dibromoethane	11.01	107	1020754	158.022	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	3460310	857.109	ug/l	100
56) Bromoform	12.13	173	825654	162.288	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	4903262	770.293	ug/l	100
59) 2-Hexanone	10.75	43	3348911	799.713	ug/l	97
61) Tetrachloroethene	10.63	164	1123869	141.586	ug/l	99
62) Toluene	10.16	91	5087703	147.995	ug/l	99
64) Chlorobenzene	11.43	112	3170493	152.534	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	1186067	149.437	ug/l	98
66) Ethyl Benzene	11.51	91	5670569	161.169	ug/l	100
67) m/p-Xylenes	11.62	106	4336528	319.802	ug/l	100
68) o-Xylene	11.95	106	2089036	161.387	ug/l	96
69) Styrene	11.96	104	3400897	167.389	ug/l	99
70) Isopropylbenzene	12.25	105	5584261	161.728	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	1247905	149.381	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	972879m	141.347	ug/l	
73) Bromobenzene	12.53	156	1374175	159.923	ug/l	98
74) n-propylbenzene	12.59	91	6620401	164.702	ug/l	100
75) 2-Chlorotoluene	12.67	91	3800750	158.345	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	4651890	161.234	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	409754	181.143	ug/l	94
78) 4-Chlorotoluene	12.77	91	3914942	165.118	ug/l	99
79) tert-butylbenzene	12.99	119	4099448	164.003	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	4743538	164.606	ug/l	100
81) sec-Butylbenzene	13.17	105	5672678	164.290	ug/l	100
82) p-Isopropyltoluene	13.29	119	5009544	169.752	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	2491472	166.399	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	2406030	170.949	ug/l	100
85) n-Butylbenzene	13.62	91	4438364	183.230	ug/l	98
86) Hexachloroethane	13.88	117	925522	156.801	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	2346175	160.180	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	198770	163.252	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	1469409	214.339	ug/l	98
90) Hexachlorobutadiene	15.01	225	837595	149.865	ug/l	98
91) Naphthalene	15.13	128	2965274	230.321	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	1374529	199.356	ug/l	99

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VSTDICC150

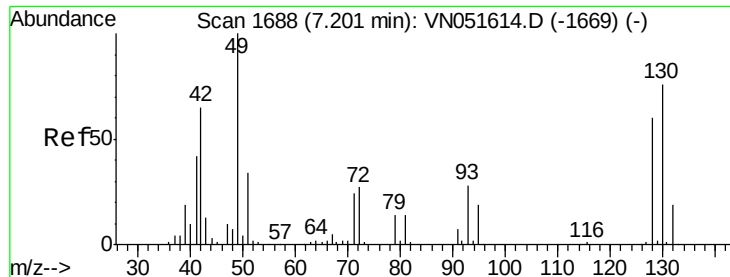
Manual Integrations
APPROVED

MMDadoda
10/3/2018 5:27:37 PM

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QLast Update : Sat Sep 29 00:34:08 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



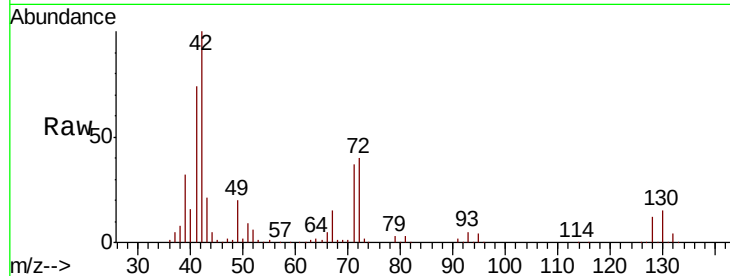
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
49	179.0	0.0	426.8
130	128.3	0.0	326.3

Manual Integrations
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10/3/2018 5:27:37 PM

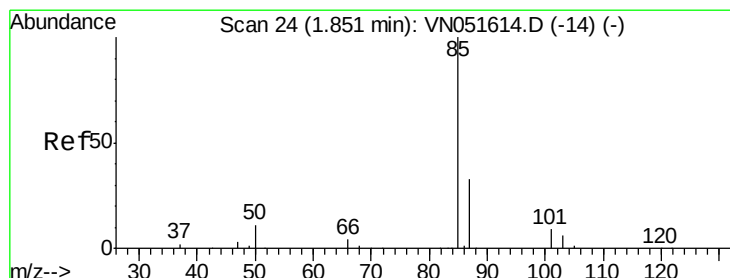
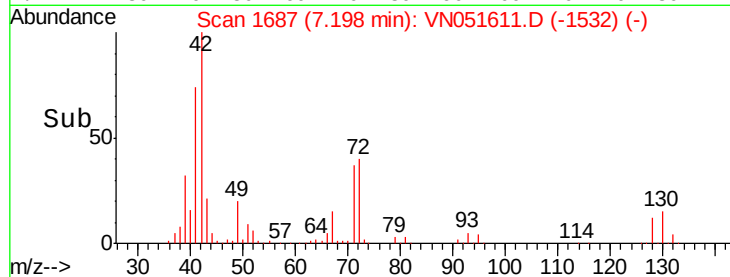
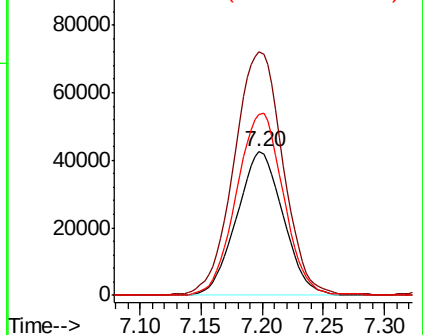


Abundance

Ion 128.00 (127.70 to 128.70): V

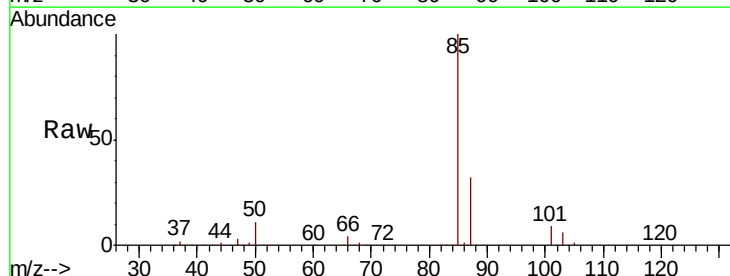
Ion 49.00 (48.70 to 49.70): V

Ion 130.00 (129.70 to 130.70): V



#2
Dichlorodifluoromethane
Concen: 155.981 ug/l
RT: 1.85 min Scan# 24
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

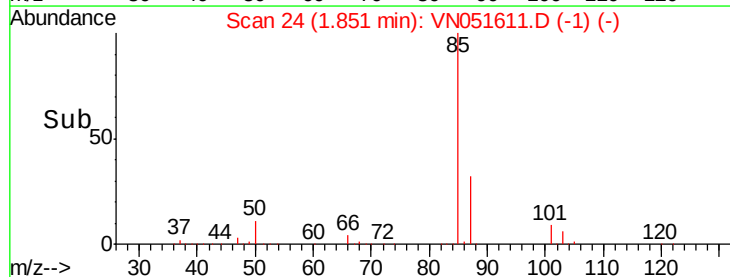
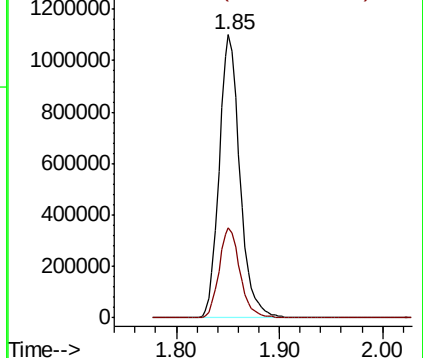
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.3	48.8

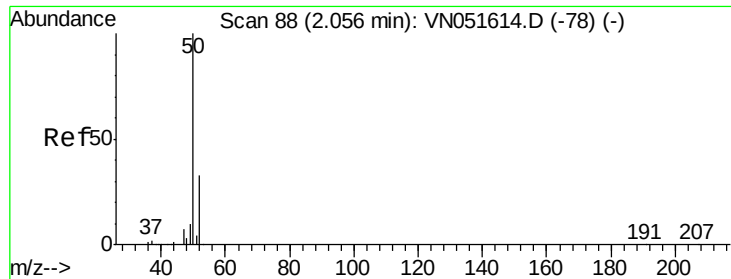


Abundance

Ion 85.00 (84.70 to 85.70): V

Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 152.616 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 50 Resp: 1677990

Ion Ratio Lower Upper

50 100

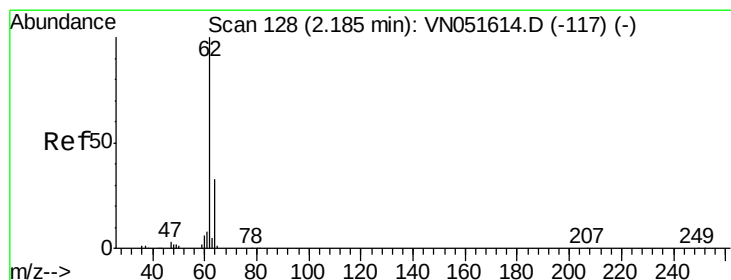
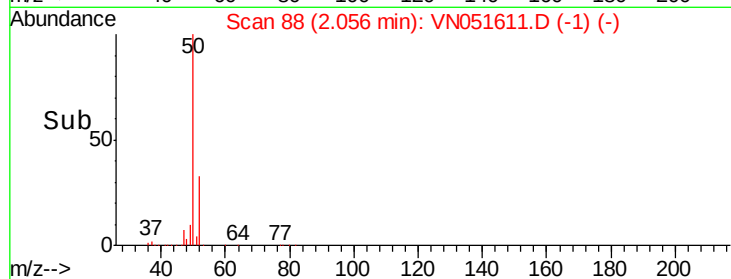
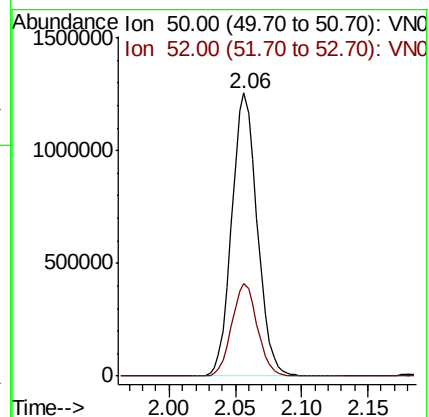
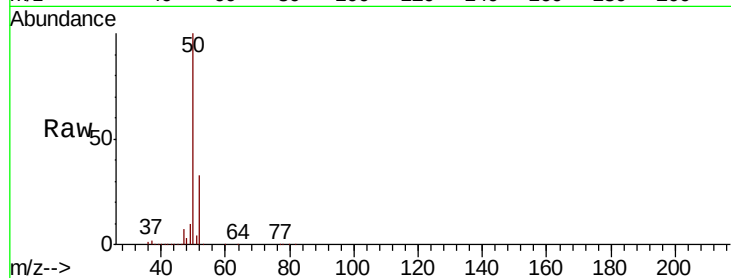
52 32.6 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 150.882 ug/l

RT: 2.18 min Scan# 127

Delta R.T. -0.00 min

Lab File: VN051611.D

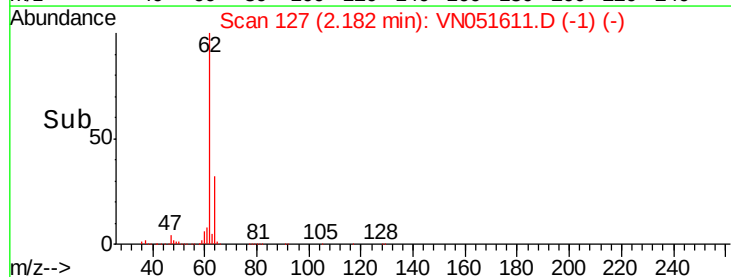
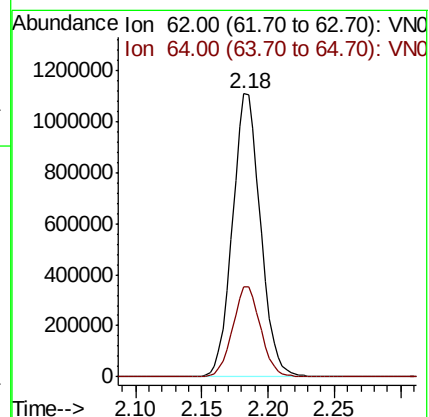
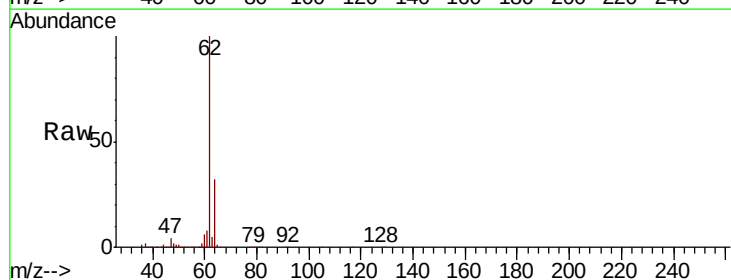
Acq: 28 Sep 2018 9:53

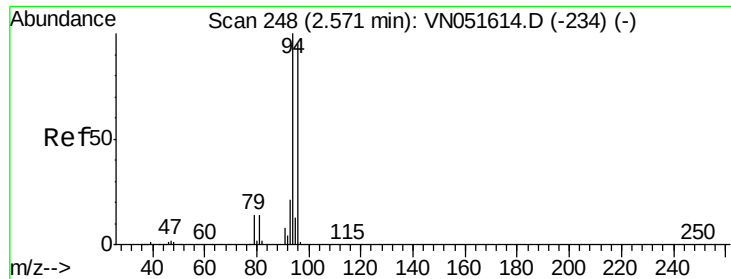
Tgt Ion: 62 Resp: 1627410

Ion Ratio Lower Upper

62 100

64 31.7 26.3 39.5





#5

Bromomethane

Concen: 157.248 ug/l

RT: 2.55 min Scan# 242

Delta R.T. -0.02 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 880994

Ion Ratio Lower Upper

94 100

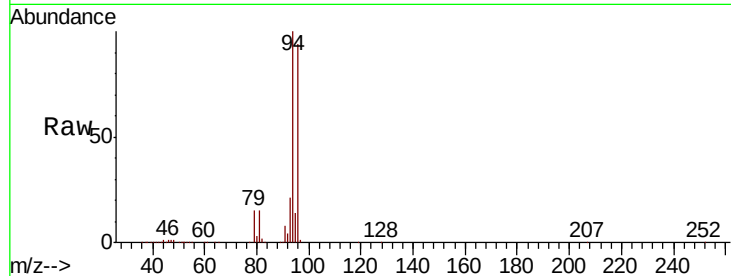
96 93.7 75.8 113.6

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VN051611.D (-234) (-)

Ion 96.00 (95.70 to 96.70): VN051611.D (-234) (-)

2.55

400000

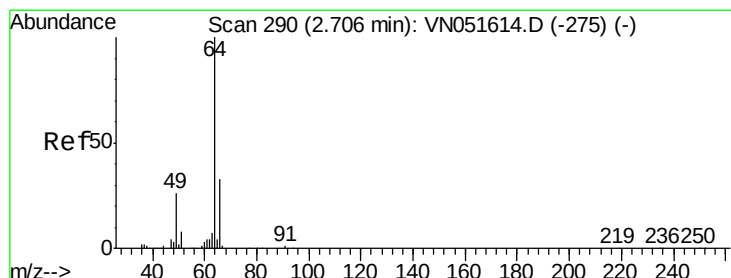
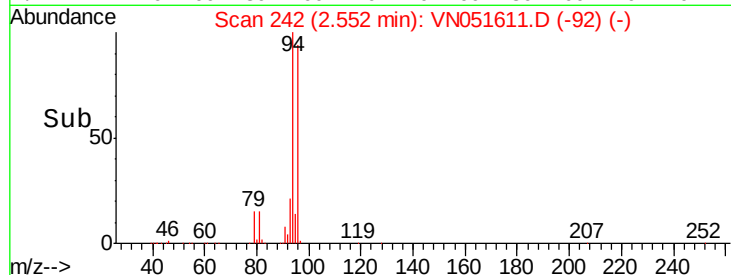
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 146.680 ug/l

RT: 2.70 min Scan# 287

Delta R.T. -0.01 min

Lab File: VN051611.D

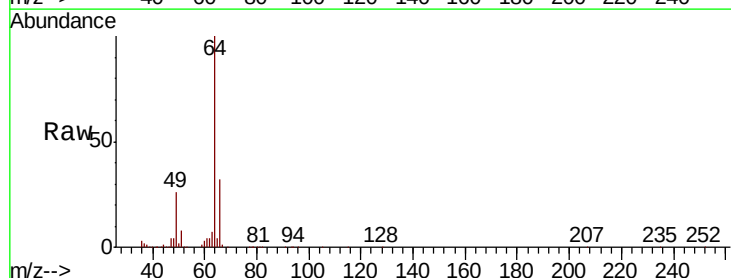
Acq: 28 Sep 2018 9:53

Tgt Ion: 64 Resp: 793671

Ion Ratio Lower Upper

64 100

66 31.7 26.1 39.1



Abundance Ion 64.00 (63.70 to 64.70): VN051611.D (-134) (-)

Ion 66.00 (65.70 to 66.70): VN051611.D (-134) (-)

2.70

400000

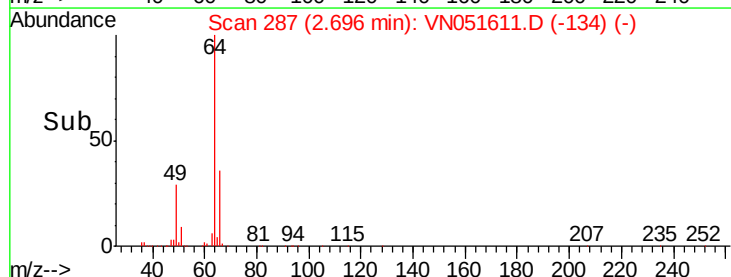
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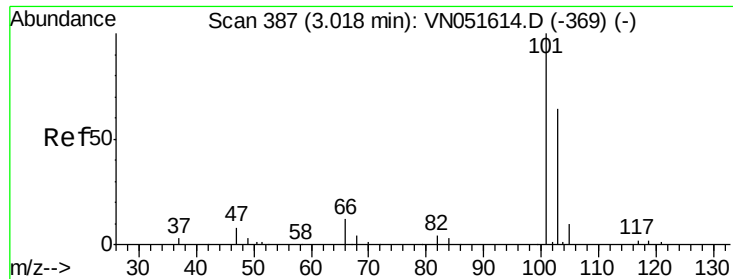
200000

100000

0

Time-->





#7

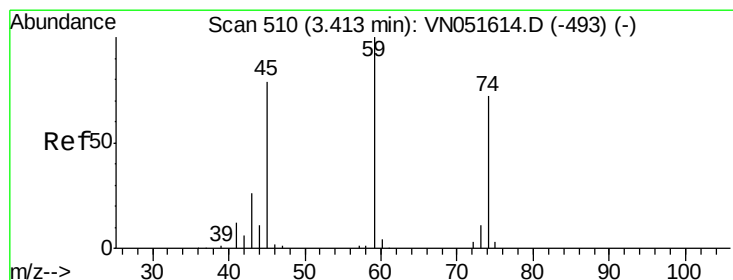
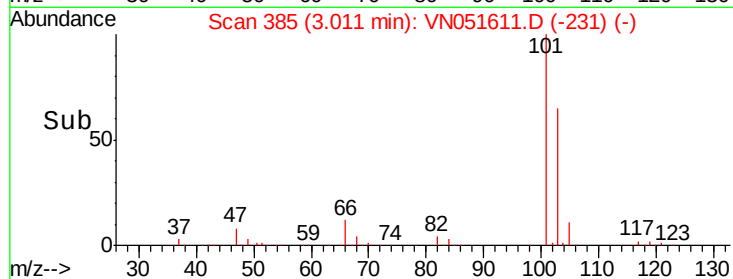
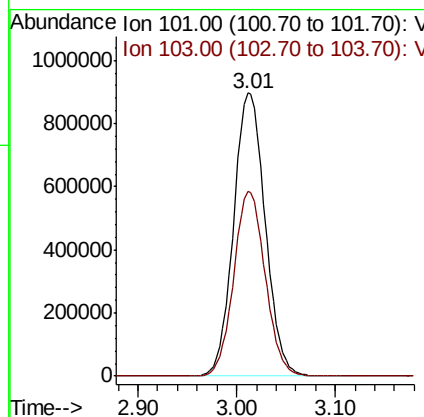
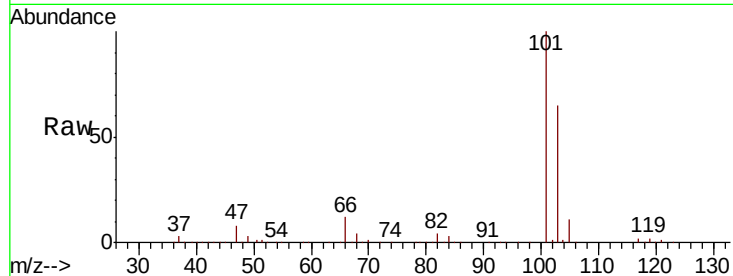
Trichlorofluoromethane
 Concen: 151.721 ug/l
 RT: 3.01 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion:101 Resp: 1999415
 Ion Ratio Lower Upper
 101 100
 103 65.1 51.2 76.8

Manual Integrations
 APPROVED

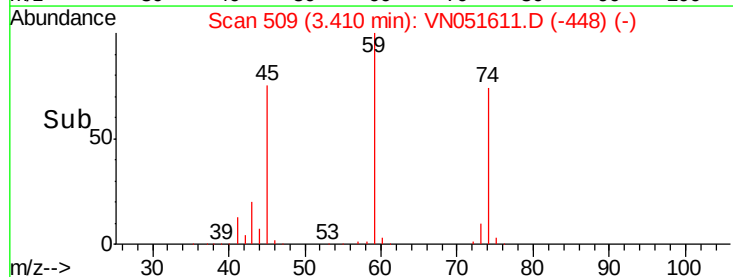
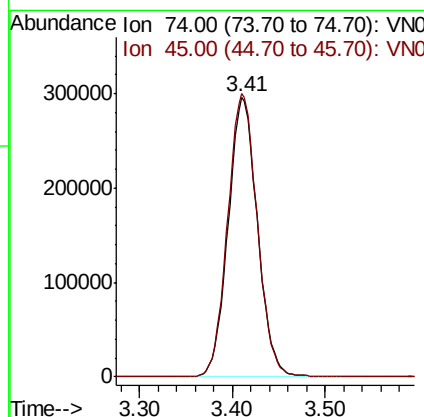
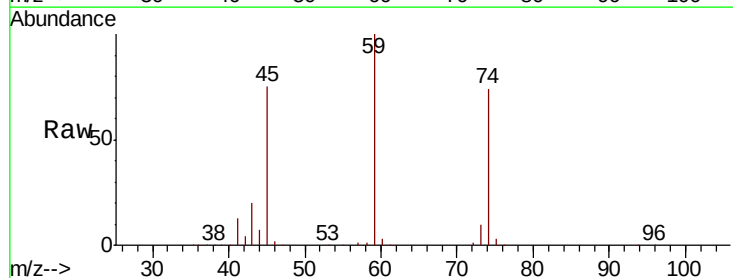
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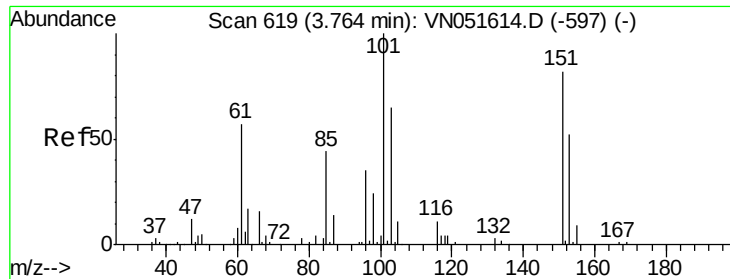


#8

Diethyl Ether
 Concen: 156.294 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 74 Resp: 646936
 Ion Ratio Lower Upper
 74 100
 45 102.8 21.3 191.5





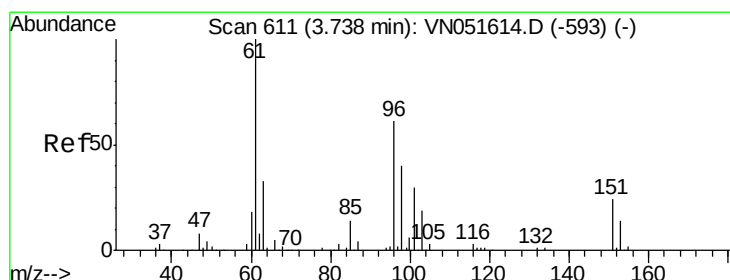
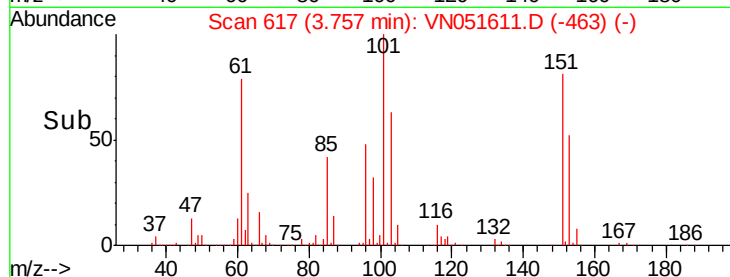
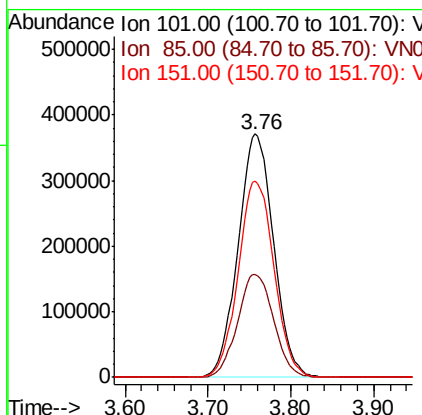
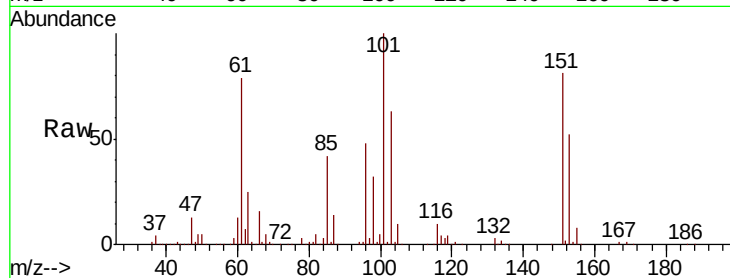
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 147.981 ug/l
 RT: 3.76 min Scan# 617
 Delta R.T. -0.01 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
101	100		
85	43.0	0.0	89.4
151	81.6	0.0	167.6

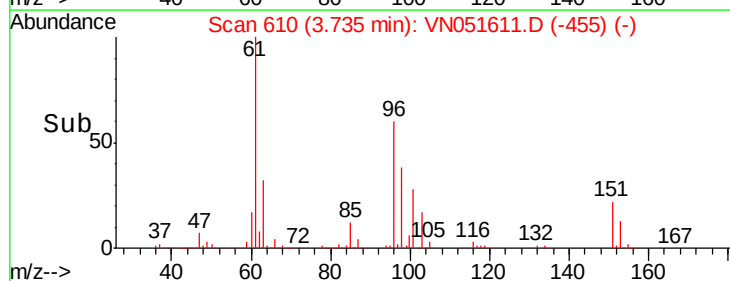
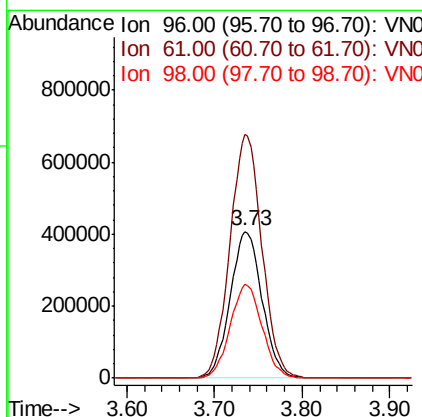
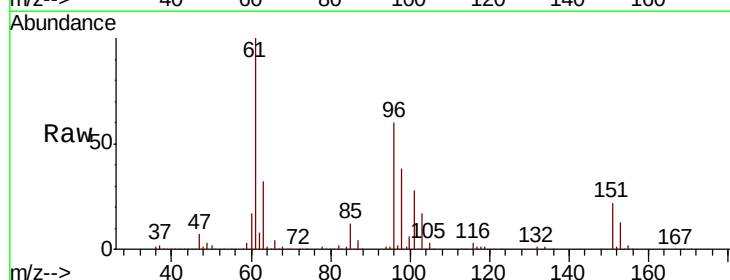
Manual Integrations
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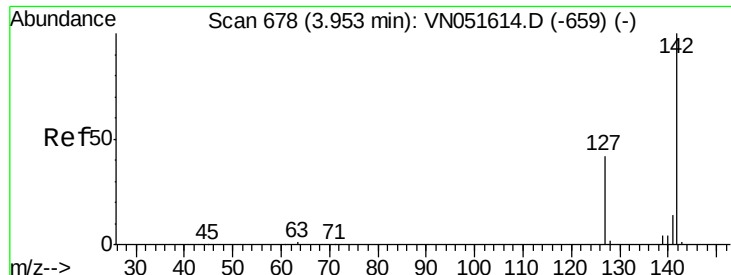
MMDadoda
 10/3/2018 5:27:37 PM



#10
 1,1-Dichloroethene
 Concen: 152.612 ug/l
 RT: 3.73 min Scan# 610
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.8	131.0	196.4
98	63.8	52.7	79.1





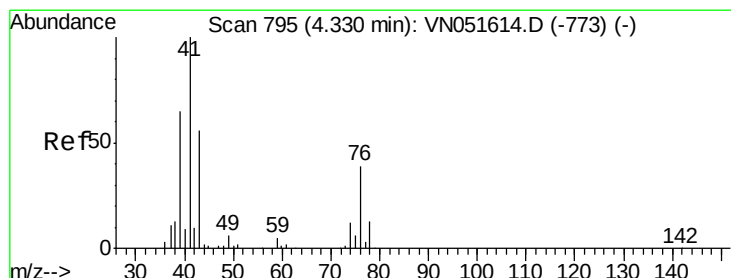
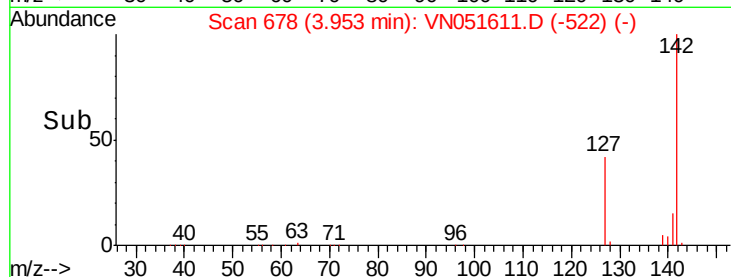
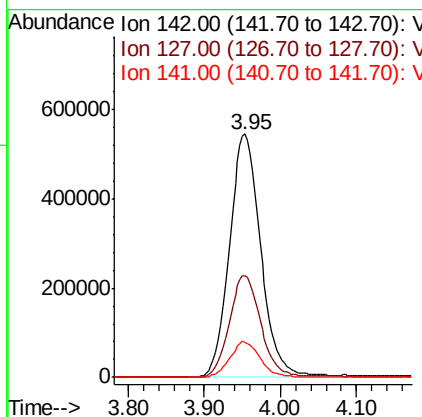
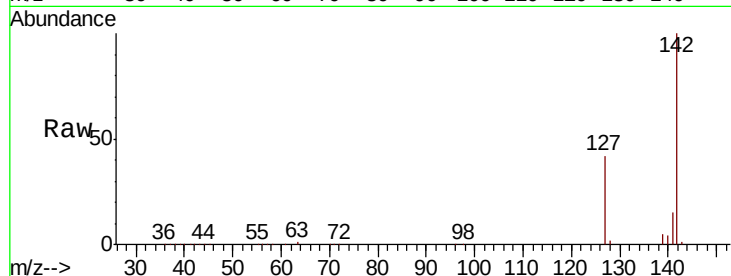
#11
Methvl Iodide
Concen: 179.635 ug/l
RT: 3.95 min Scan# 678
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
142	100		
127	41.8	21.1	63.1
141	14.5	7.1	21.4

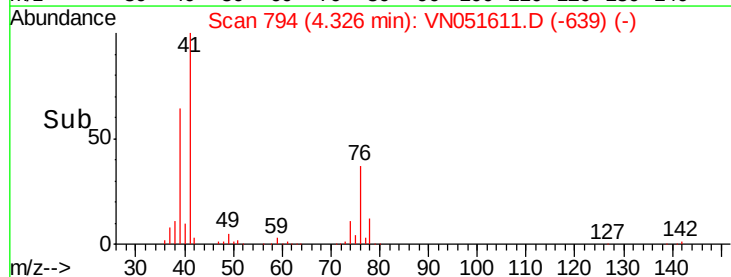
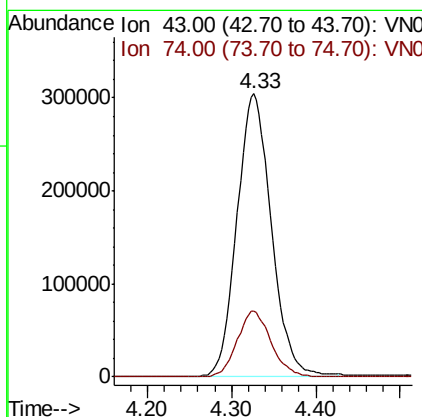
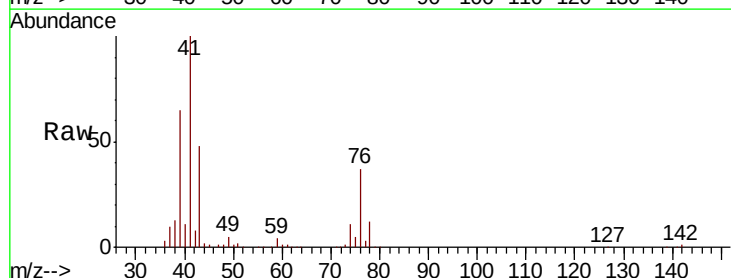
Manual Integrations
APPROVED

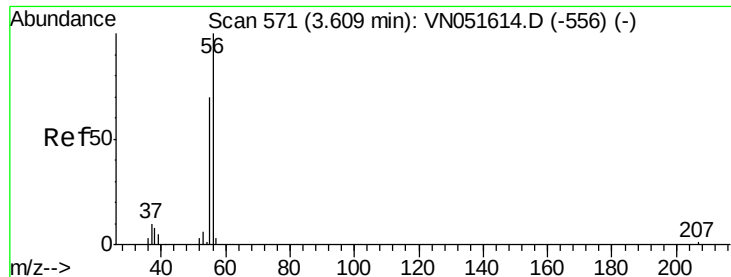
MMDadoda
10/3/2018 5:27:37 PM



#12
Methyl Acetate
Concen: 144.284 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.4	17.0	25.4





#13

Acrolein

Concen: 814.685 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 56 Resp: 536991

Ion Ratio Lower Upper

56 100

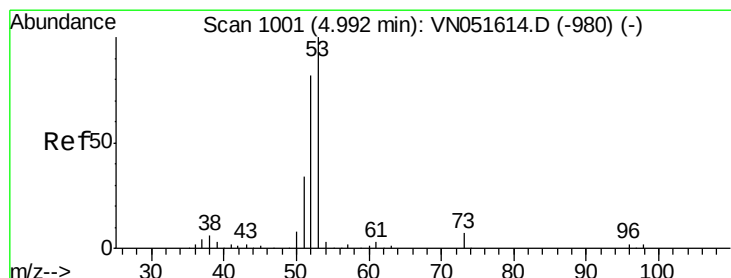
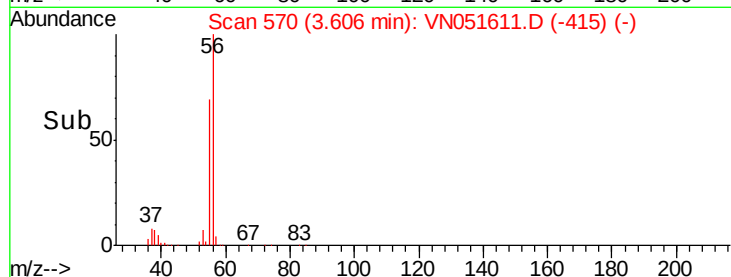
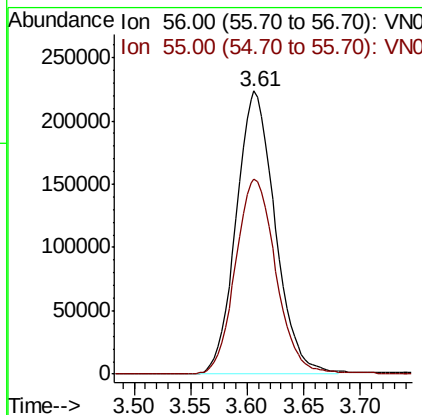
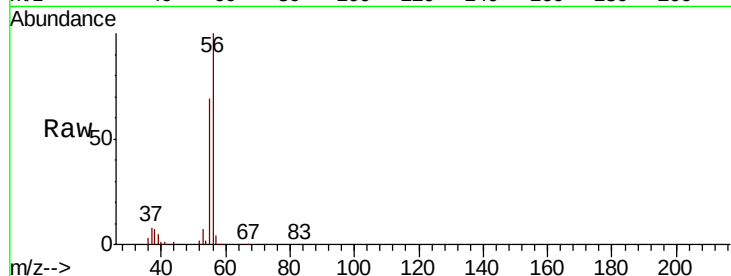
55 71.5 55.8 83.8

Manual Integrations

APPROVED

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#14

Acrylonitrile

Concen: 797.199 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

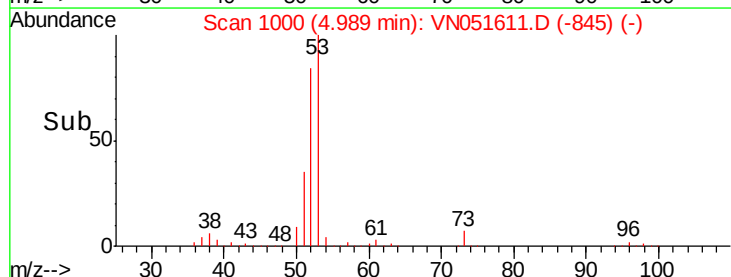
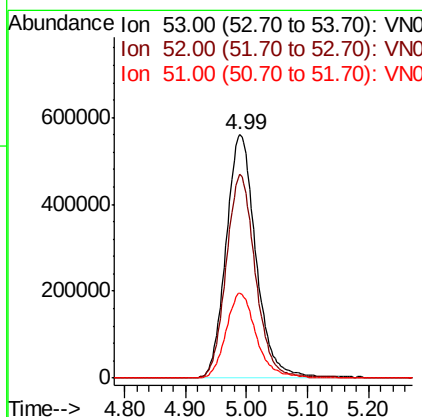
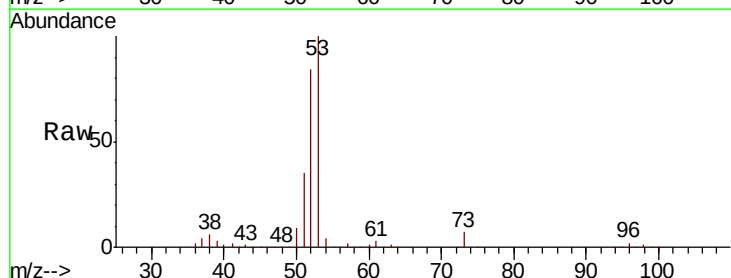
Tgt Ion: 53 Resp: 1904759

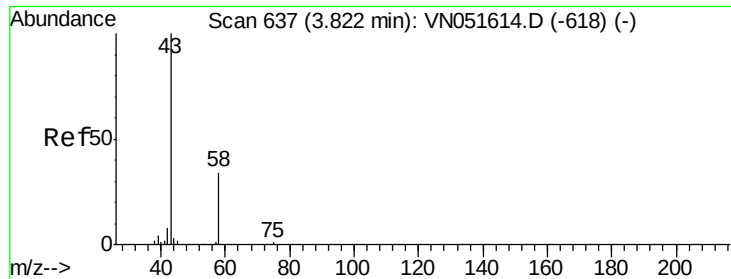
Ion Ratio Lower Upper

53 100

52 82.3 41.3 123.7

51 35.5 17.1 51.2





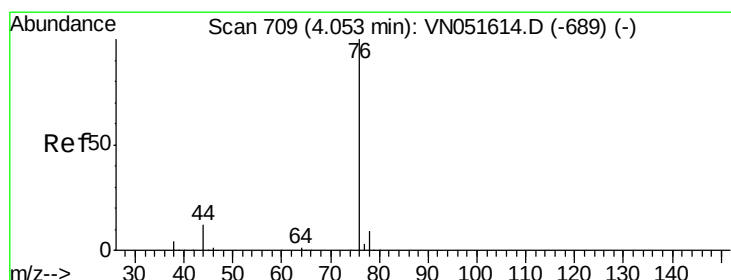
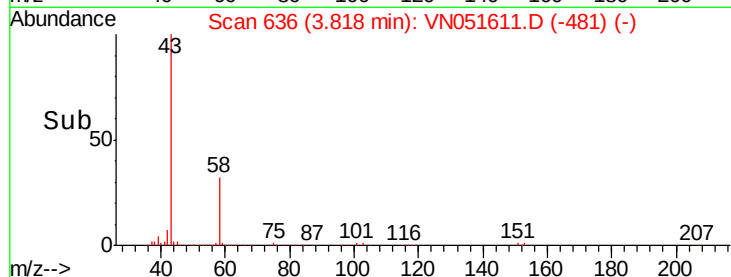
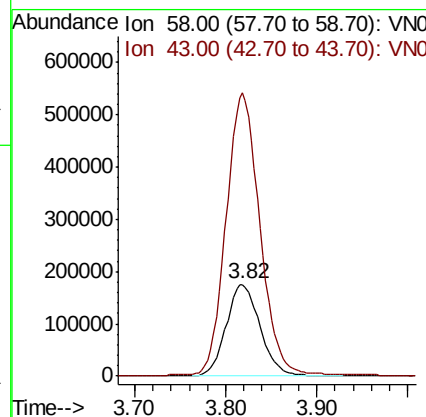
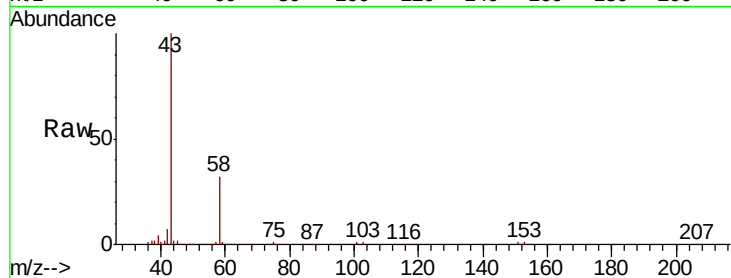
#15
Acetone
Concen: 717.397 ug/l
RT: 3.82 min Scan# 636
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 58 Resp: 449423
Ion Ratio Lower Upper
58 100
43 308.8 238.0 357.0

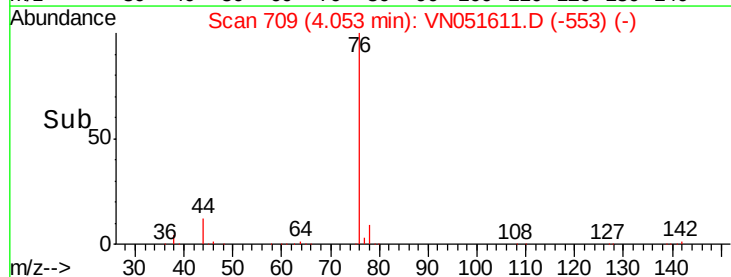
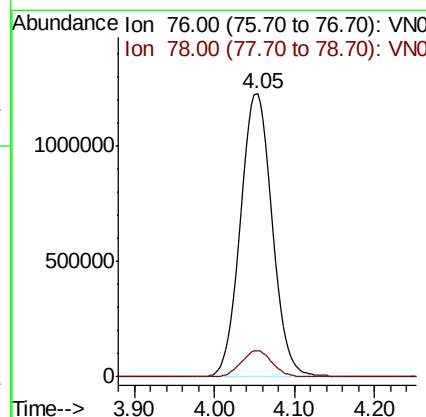
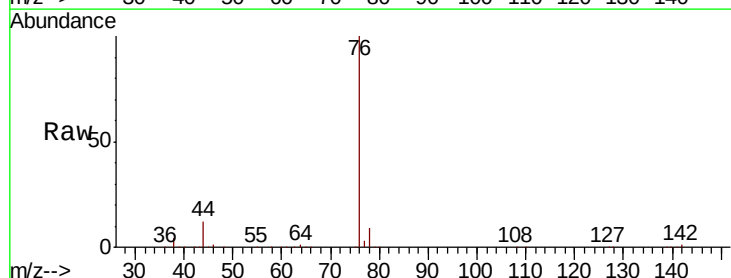
Manual Integrations
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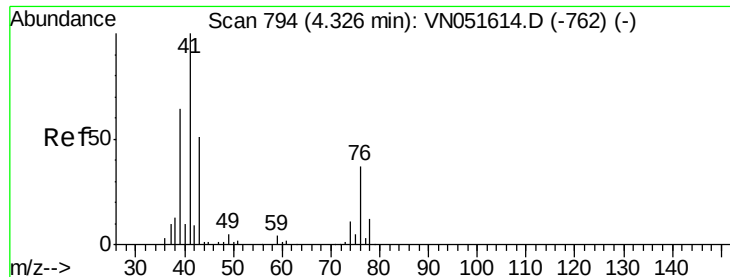
MMDadoda
10/3/2018 5:27:37 PM



#16
Carbon Disulfide
Concen: 150.809 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 76 Resp: 3285258
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9





#17

Allvl chloride

Concen: 159.686 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN051611.D

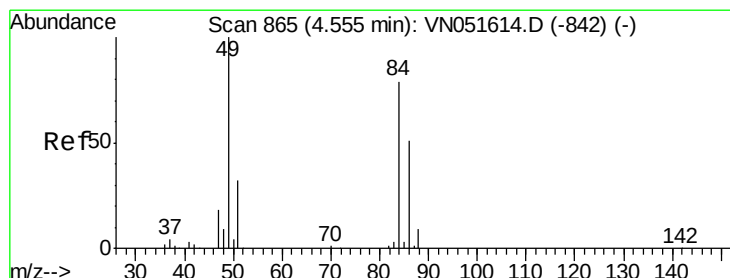
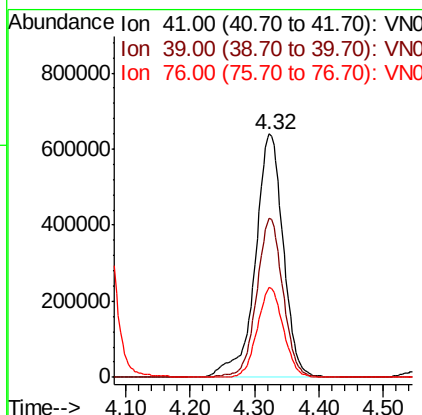
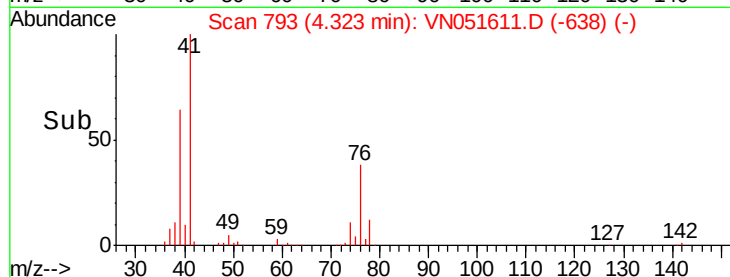
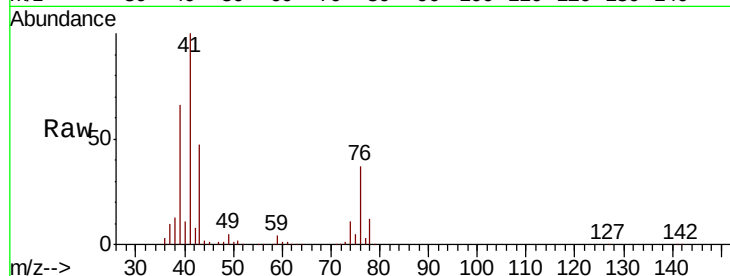
Acq: 28 Sep 2018 9:53

Tot Ion:	41	Resp:	1931057
Ion	Ratio	Lower	Upper
41	100		
39	65.5	31.9	95.9
76	37.0	18.6	56.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Manual Integrations
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10/3/2018 5:27:37 PM



#18

Methylene Chloride

Concen: 146.159 ug/l

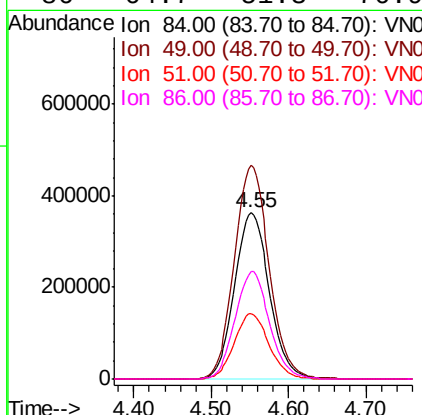
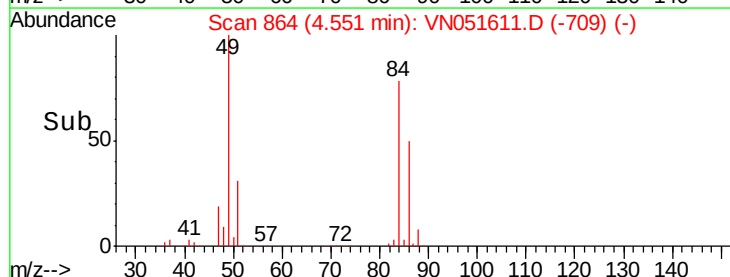
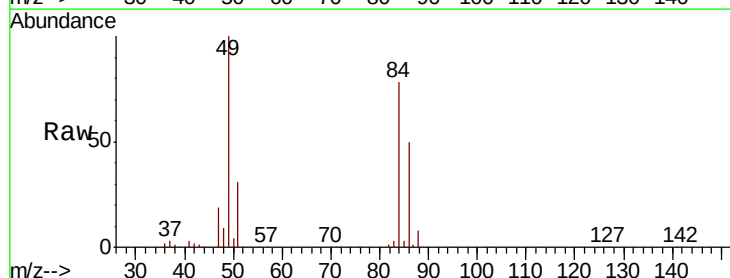
RT: 4.55 min Scan# 864

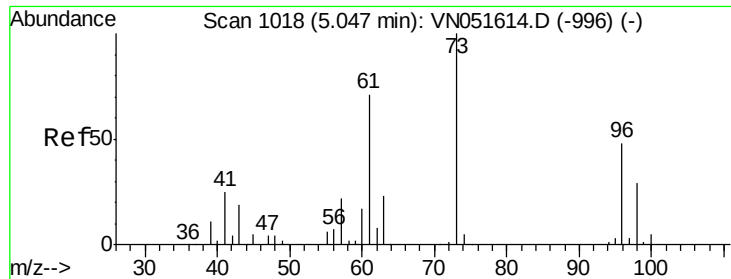
Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Tgt Ion:	84	Resp:	1135931
Ion	Ratio	Lower	Upper
84	100		
49	128.7	100.9	151.3
51	39.6	32.5	48.7
86	64.7	51.3	76.9





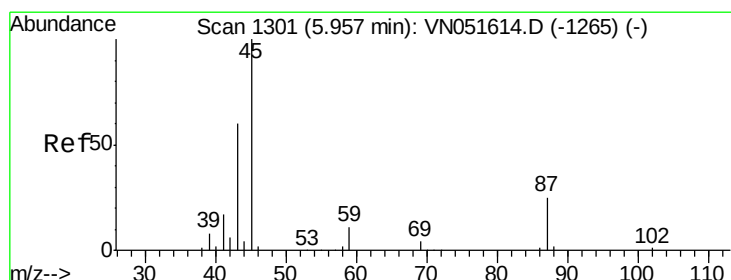
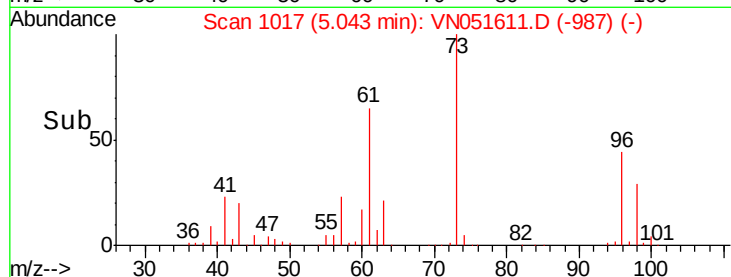
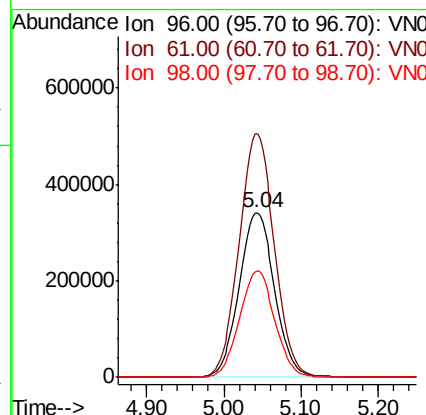
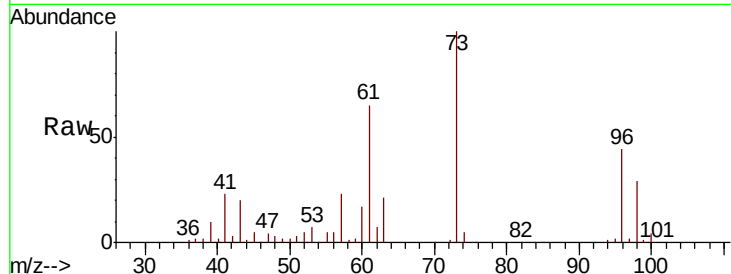
#19
trans-1,2-Dichloroethene
Concen: 151.628 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 96 Resp: 1088085
Ion Ratio Lower Upper
96 100
61 147.8 118.0 177.0
98 64.8 49.0 73.4

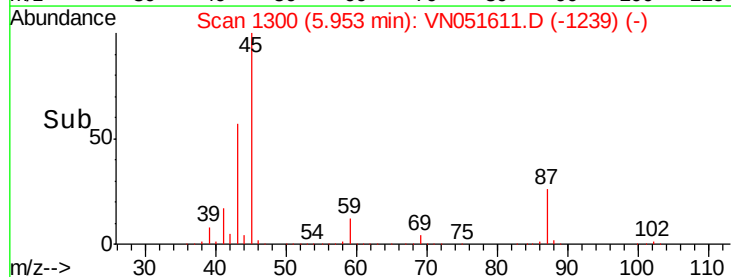
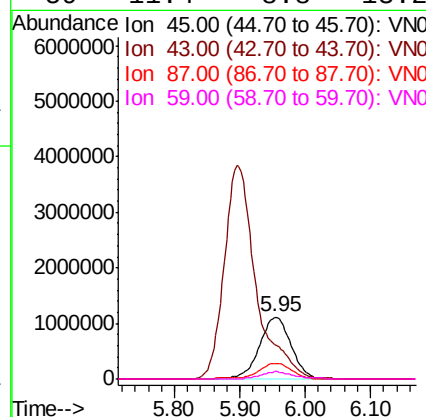
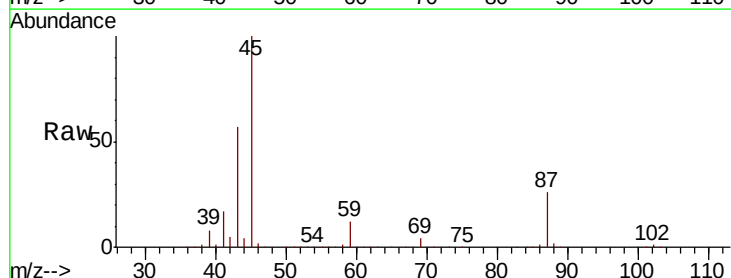
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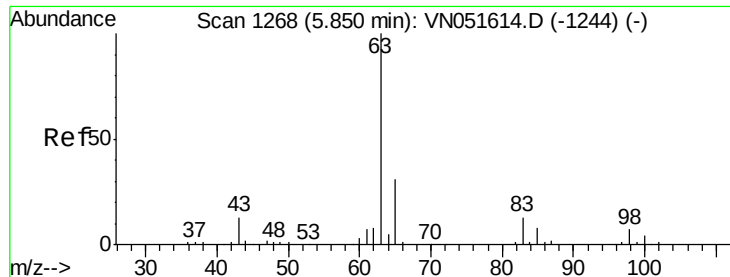
MMDadoda
10/3/2018 5:27:37 PM



#20
Diisopropyl ether
Concen: 155.456 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 45 Resp: 3729339
Ion Ratio Lower Upper
45 100
43 56.8 48.3 72.5
87 25.9 20.8 31.2
59 11.4 8.8 13.2





#21

1,1-Dichloroethane

Concen: 148.421 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 2110274

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.9

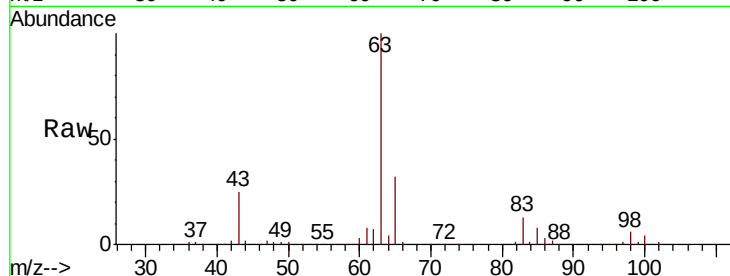
100 3.8 2.0 5.8

Manual Integrations

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MMDadoda

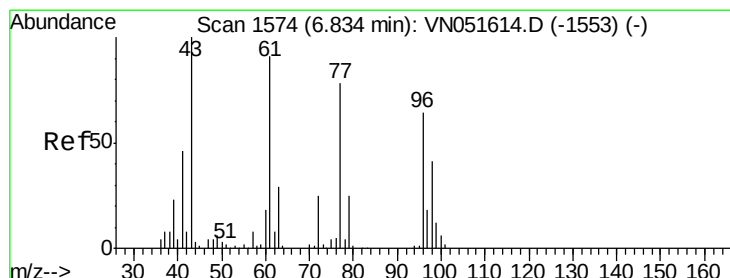
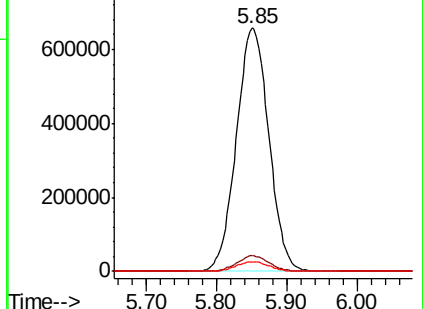
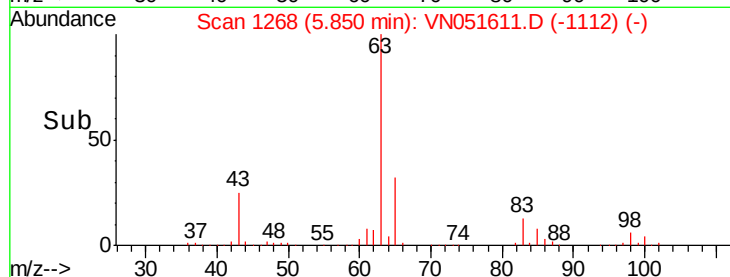
10/3/2018 5:27:37 PM



Abundance Ion 63.00 (62.70 to 63.70): VN051611.D (-1112) (-)

Ion 98.00 (97.70 to 98.70): VN051611.D (-1112) (-)

Ion 100.00 (99.70 to 100.70): VN051611.D (-1112) (-)



#22

cis-1,2-Dichloroethene

Concen: 155.848 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

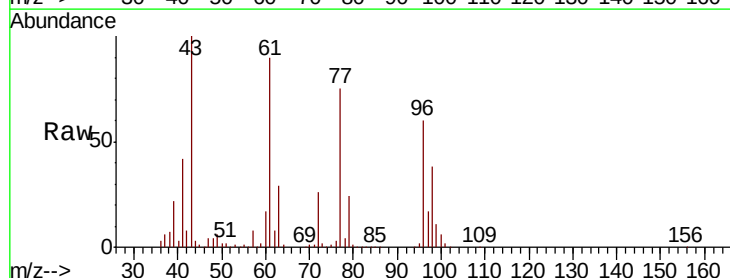
Tgt Ion: 96 Resp: 1221393

Ion Ratio Lower Upper

96 100

61 152.2 120.4 180.6

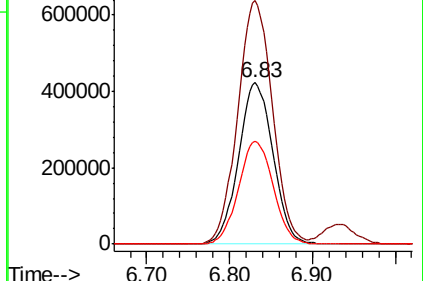
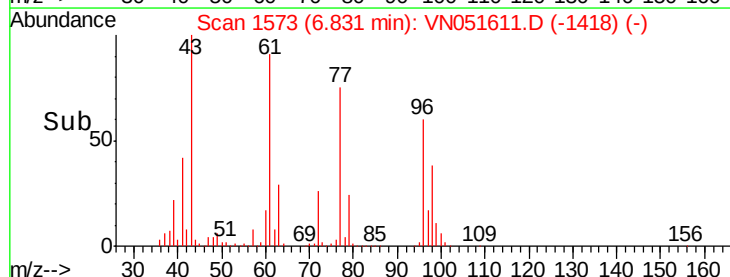
98 64.4 51.4 77.0

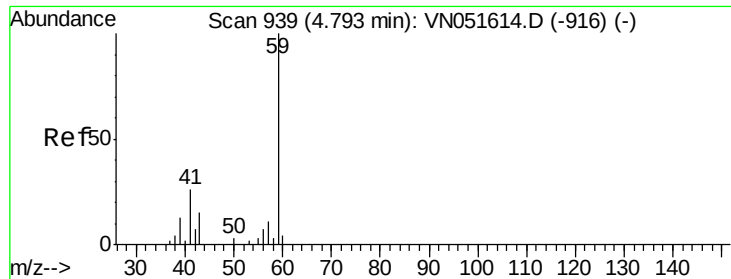


Abundance Ion 96.00 (95.70 to 96.70): VN051611.D (-1418) (-)

Ion 61.00 (60.70 to 61.70): VN051611.D (-1418) (-)

Ion 98.00 (97.70 to 98.70): VN051611.D (-1418) (-)





#23

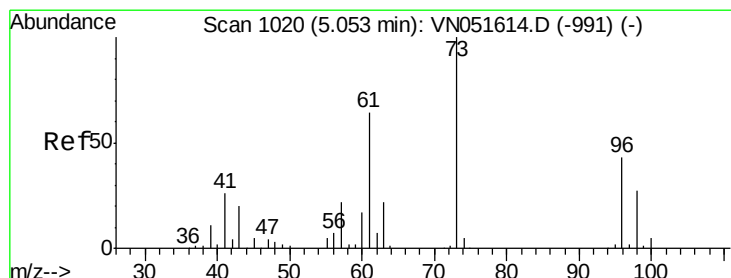
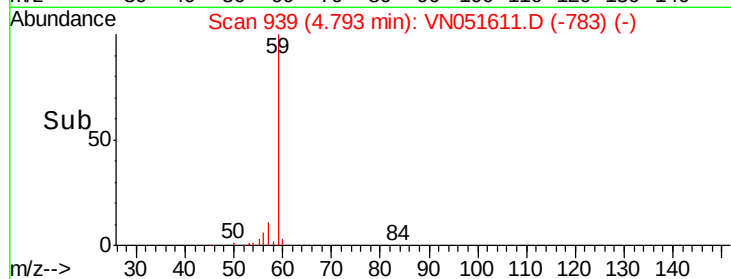
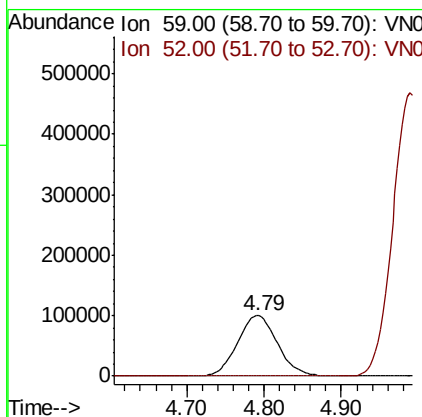
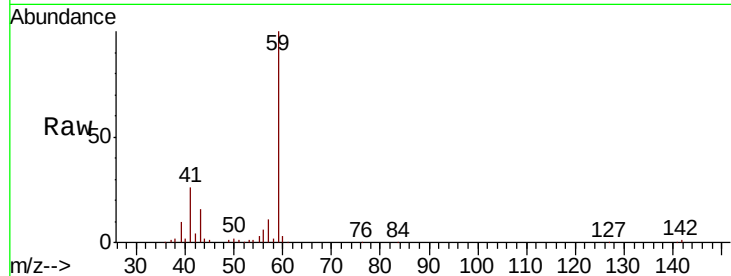
tert-Butyl Alcohol
Concen: 792.254 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0#

Manual Integrations
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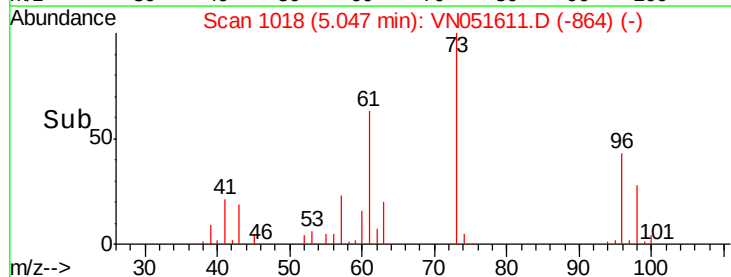
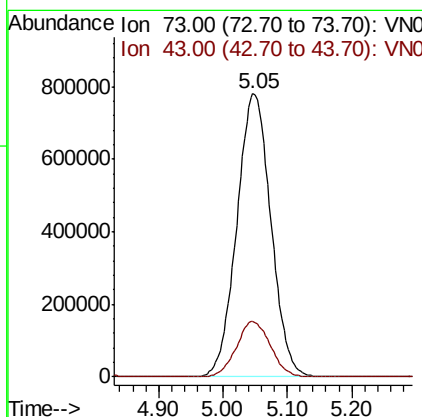
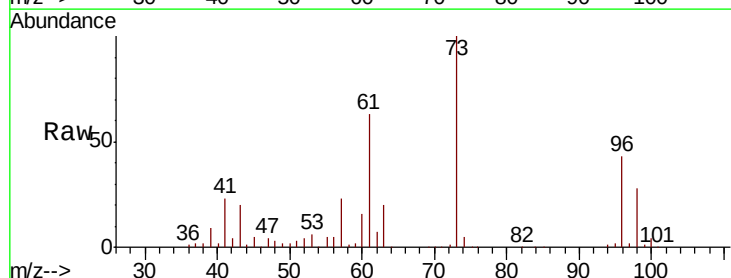
MMDadoda
10/3/2018 5:27:37 PM

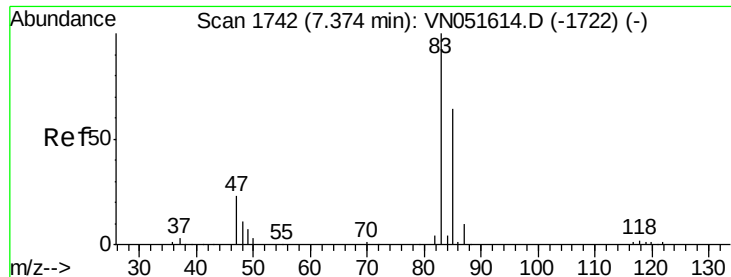


#24

Methyl tert-Butyl Ether
Concen: 161.685 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.4	16.1	24.1





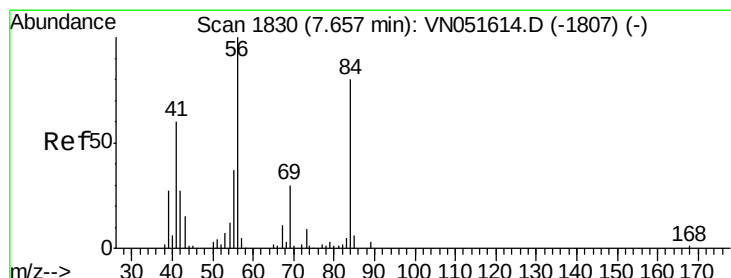
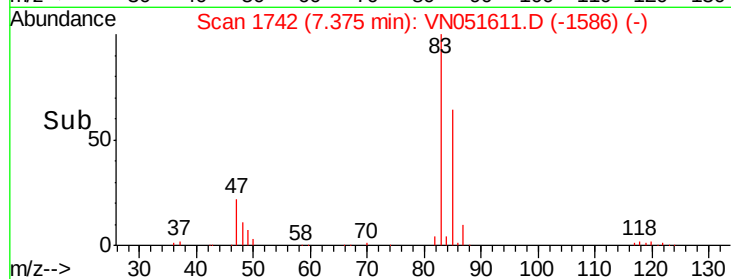
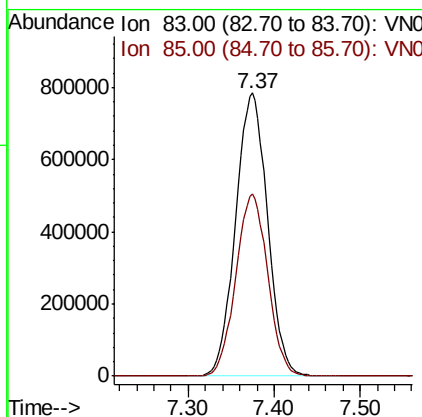
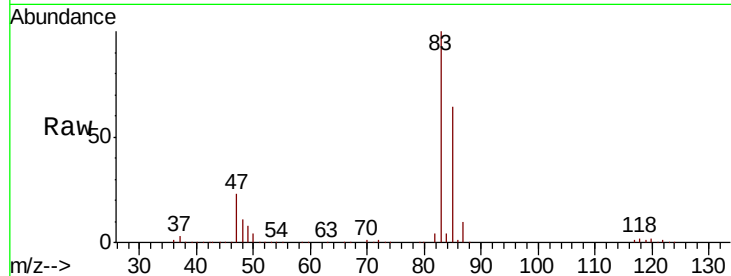
#25
Chloroform
Concen: 148.930 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion: 83 Resp: 2024640
Ion Ratio Lower Upper
83 100
85 64.3 51.4 77.0

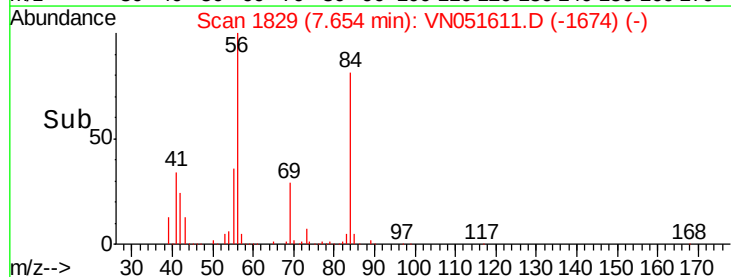
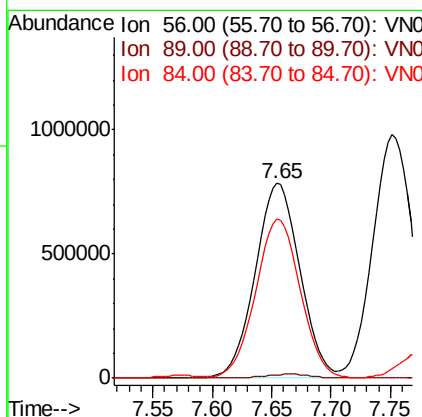
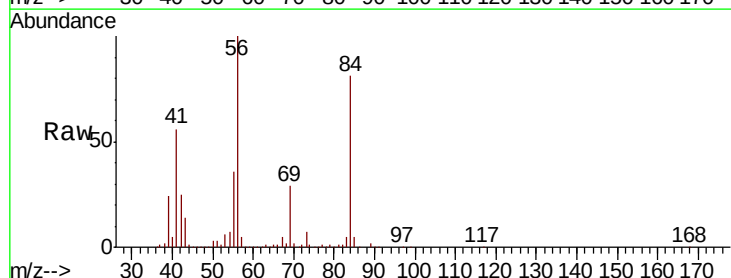
Manual Integrations
APPROVED

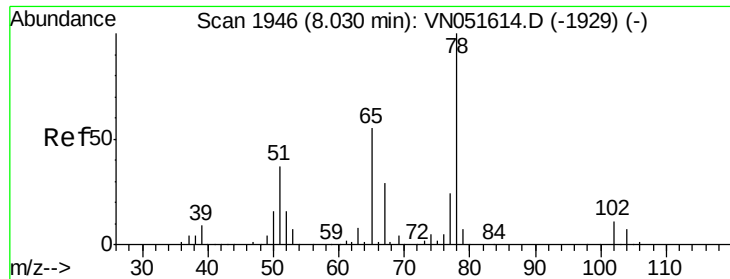
MMDadoda
10/3/2018 5:27:37 PM



#26
Cyclohexane
Concen: 166.006 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 56 Resp: 2042526
Ion Ratio Lower Upper
56 100
89 2.0 2.2 3.2#
84 81.7 65.0 97.4





#27

1,2-Dichloroethane-d4

Concen: 166.006 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Tot Ion: 65 Resp: 230579

Ion Ratio Lower Upper

65 100

67 53.7 43.1 64.7

Instrument :

MSVOA_N

ClientSampleId :

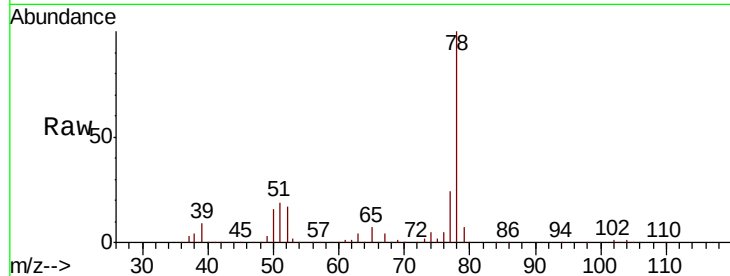
VSTDIC150

Manual Integrations

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Abundance Ion 65.00 (64.70 to 65.70): VN051611.D (-1790) (-)

Ion 67.00 (66.70 to 67.70): VN051611.D (-1790) (-)

8.03

100000

80000

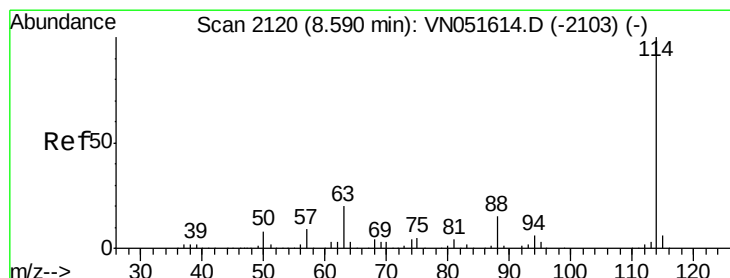
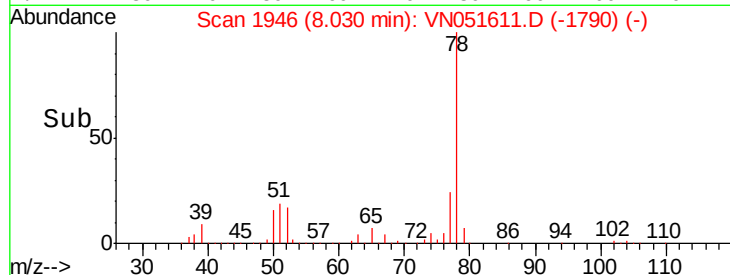
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

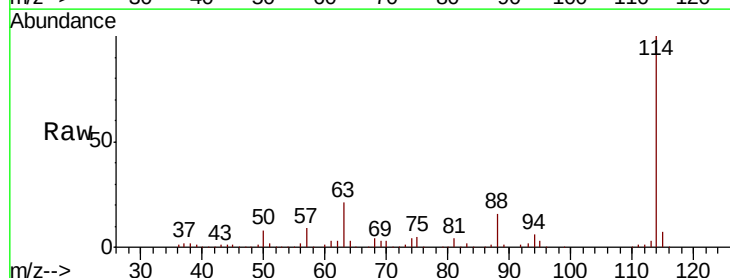
Tgt Ion: 114 Resp: 618614

Ion Ratio Lower Upper

114 100

63 20.4 16.4 24.6

88 15.3 12.6 18.8



Abundance Ion 114.00 (113.70 to 114.70): VN051611.D (-1964) (-)

Ion 63.00 (62.70 to 63.70): VN051611.D (-1964) (-)

Ion 88.00 (87.70 to 88.70): VN051611.D (-1964) (-)

8.59

400000

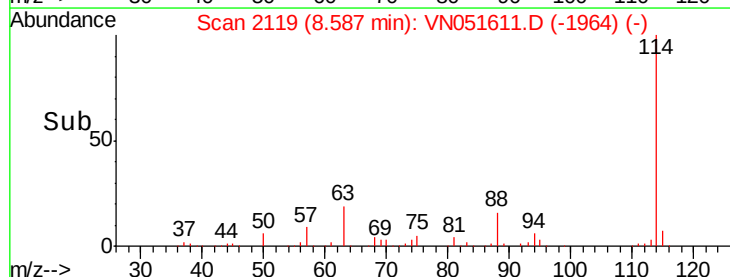
300000

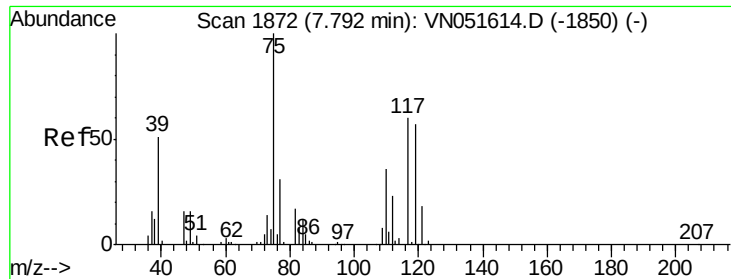
200000

100000

0

Time-->





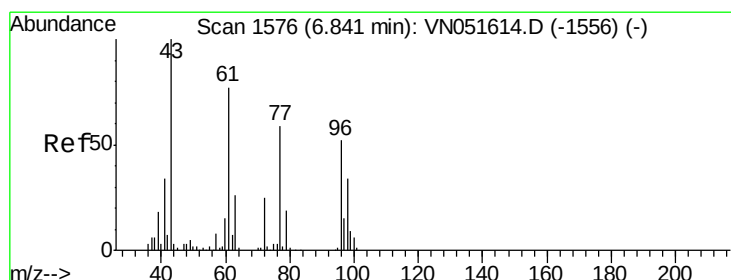
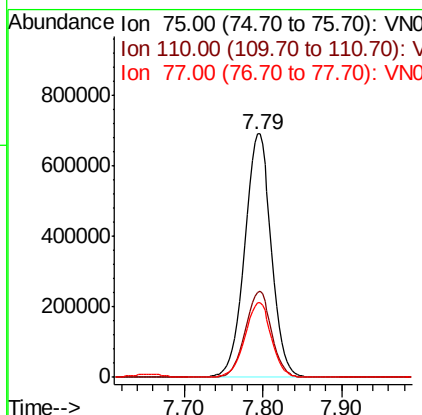
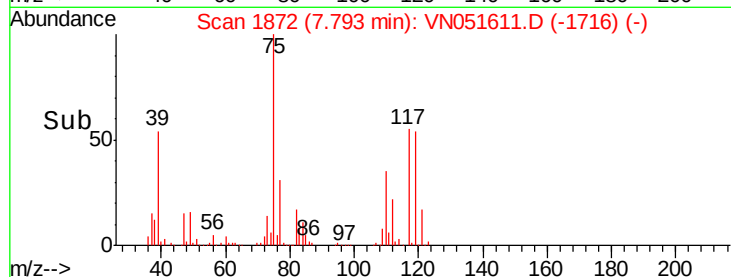
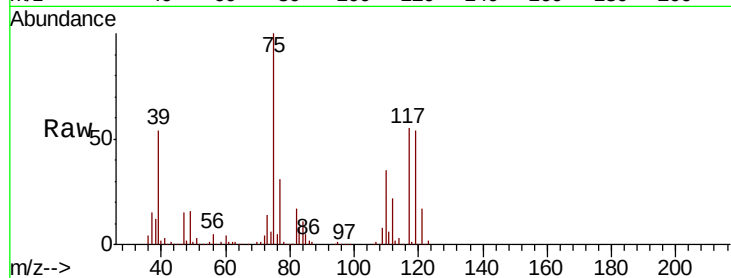
#29
 1,1-Dichloropropene
 Concen: 156.538 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
110	34.8	0.0	71.0
77	30.7	0.0	62.4

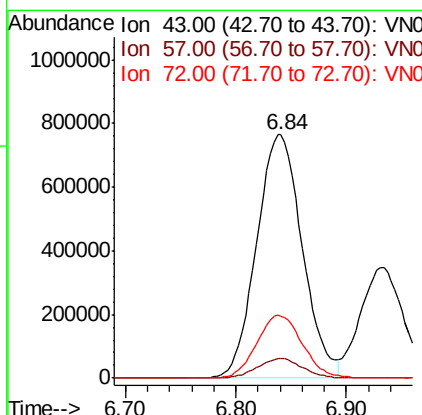
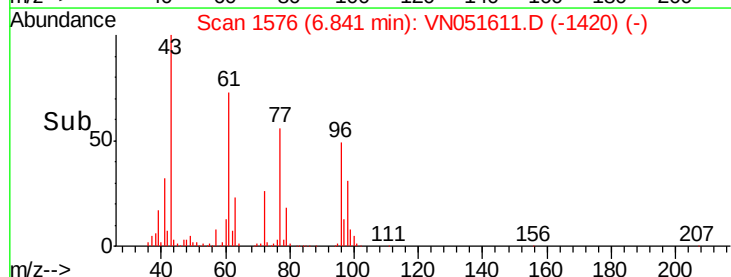
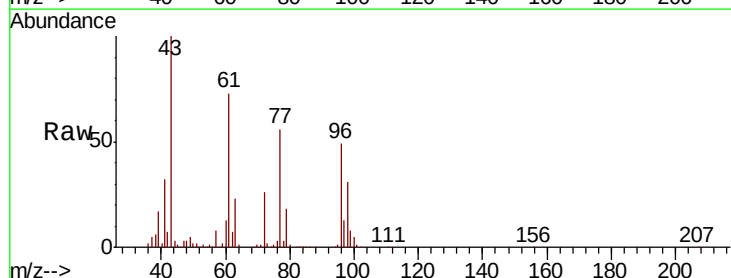
Manual Integrations
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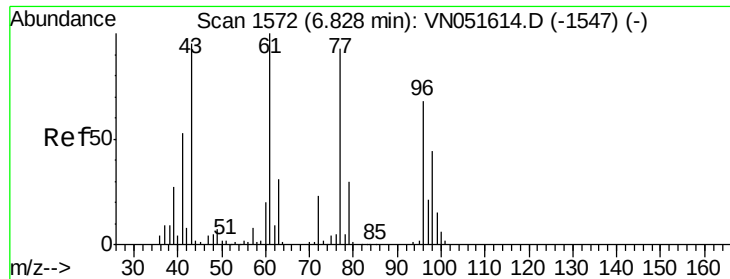
MMDadoda
 10/3/2018 5:27:37 PM



#30
 2-Butanone
 Concen: 762.719 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.6	10.0
72	26.1	20.8	31.2





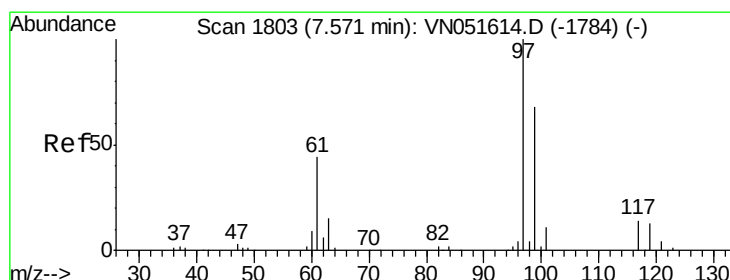
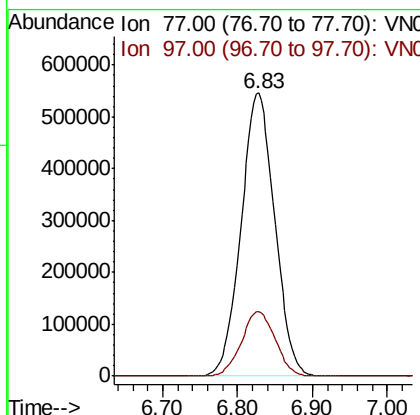
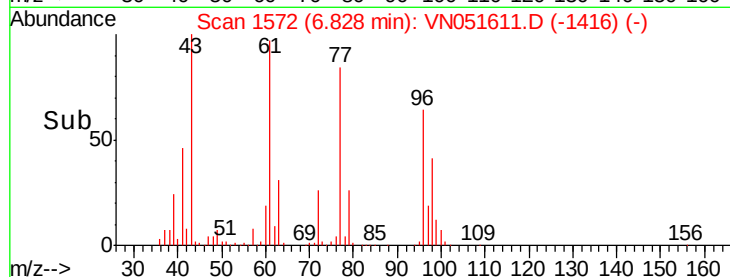
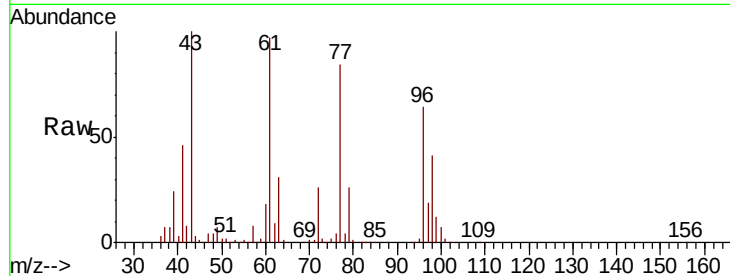
#31
 2,2-Dichloropropane
 Concen: 149.692 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion: 77 Resp: 1704218
 Ion Ratio Lower Upper
 77 100
 97 23.0 18.6 28.0

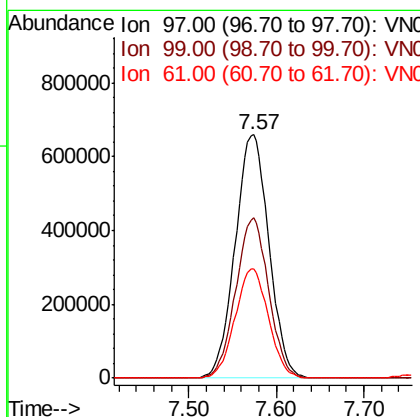
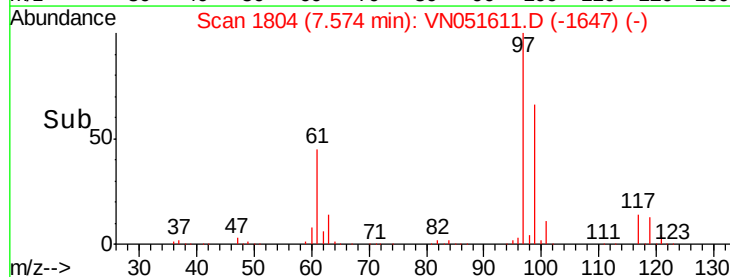
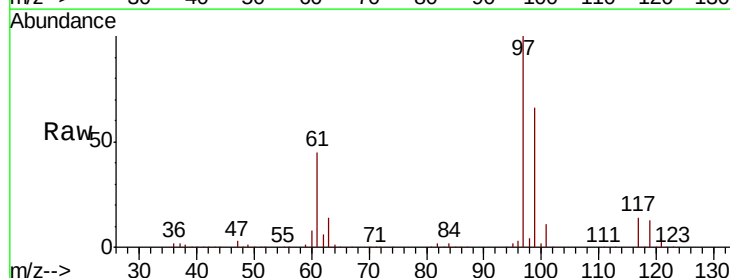
Manual Integrations
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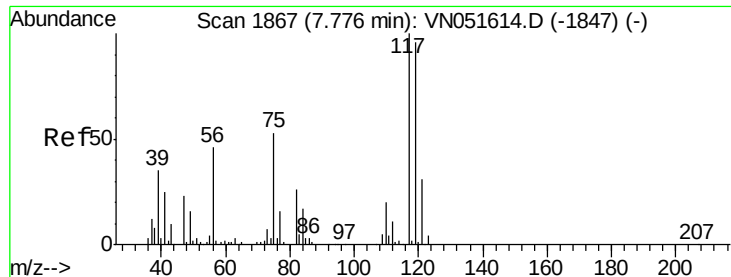
MMDadoda
 10/3/2018 5:27:37 PM



#32
 1,1,1-Trichloroethane
 Concen: 149.085 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 97 Resp: 1766988
 Ion Ratio Lower Upper
 97 100
 99 64.3 52.2 78.4
 61 44.6 36.2 54.4





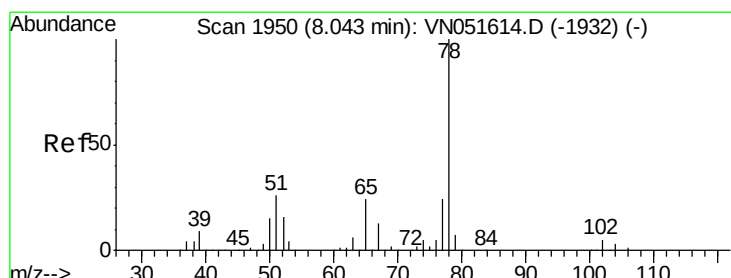
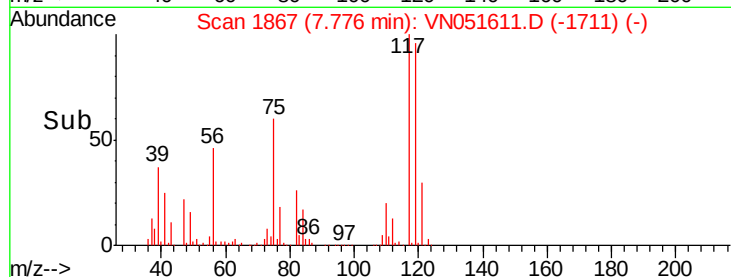
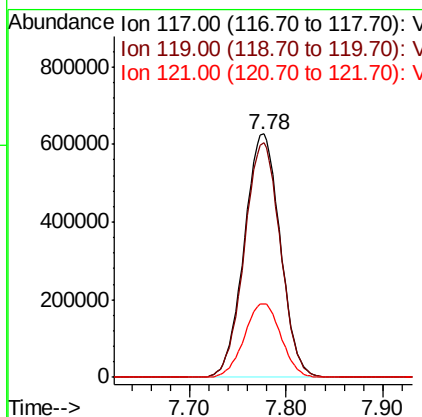
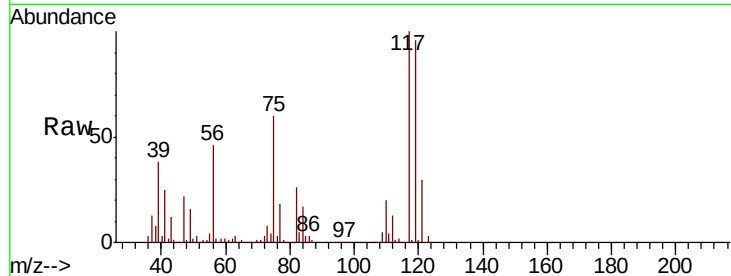
#33
Carbon Tetrachloride
Concen: 151.921 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.5	114.7
121	30.4	25.0	37.6

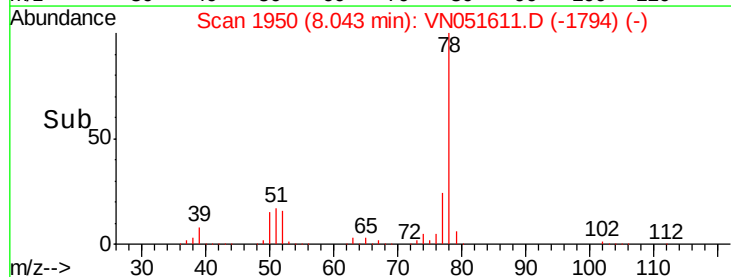
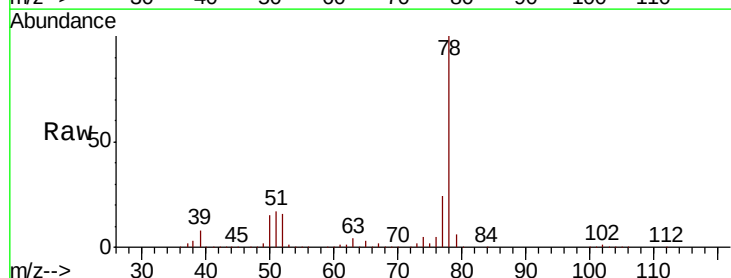
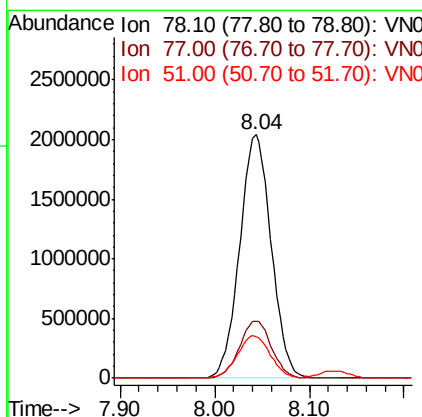
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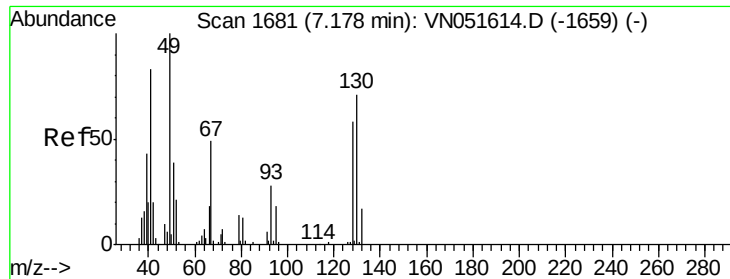
MMDadoda
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#34
Benzene
Concen: 150.665 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9
51	17.3	20.8	31.2#





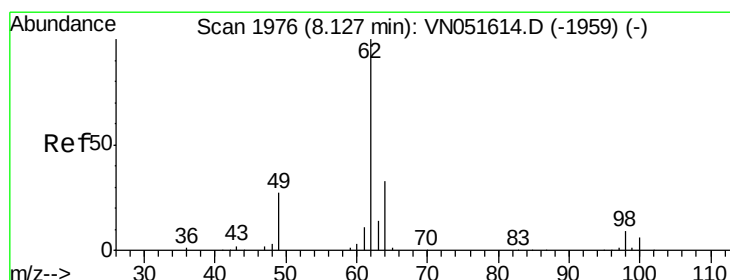
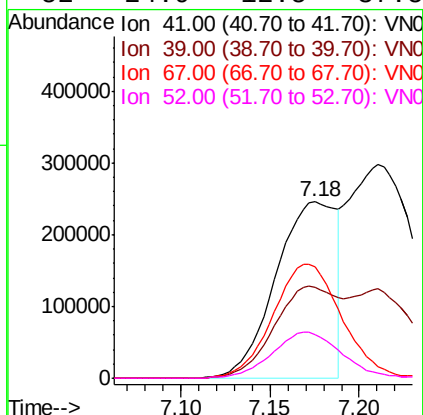
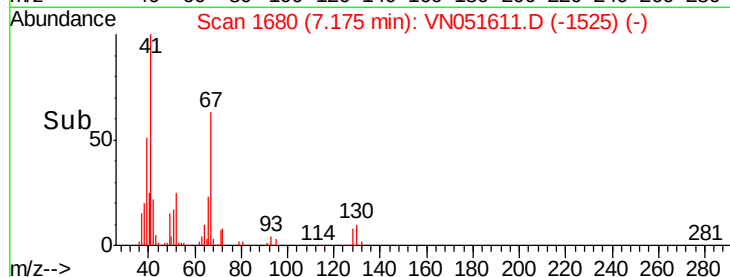
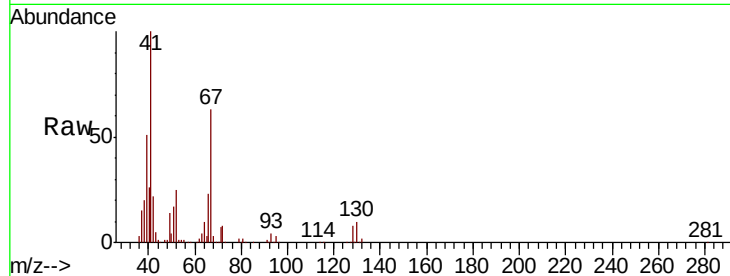
#35
Methacrylonitrile
Concen: 173.751 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	41	Resp	578216
Ion	Ratio	Lower	Upper
41	100		
39	51.3	25.6	76.8
67	63.2	29.4	88.2
52	24.9	12.5	37.5

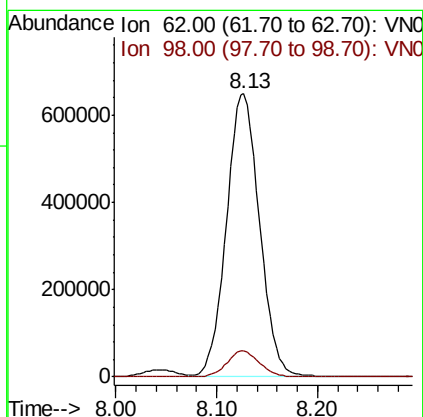
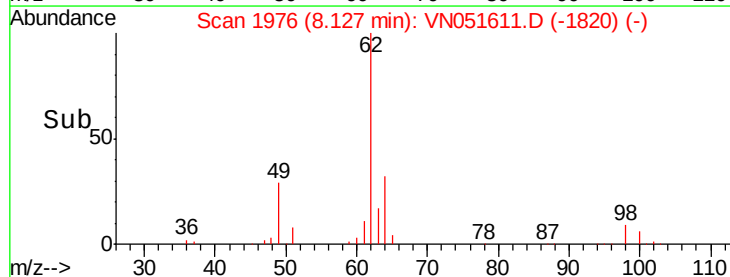
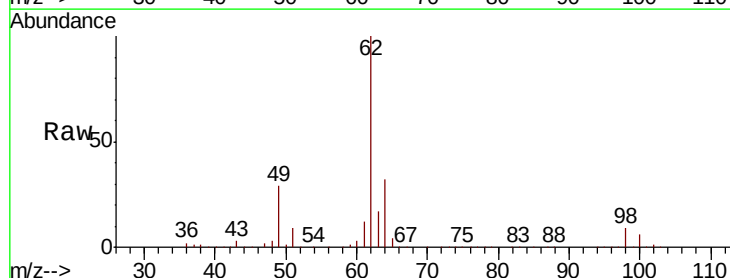
Manual Integrations
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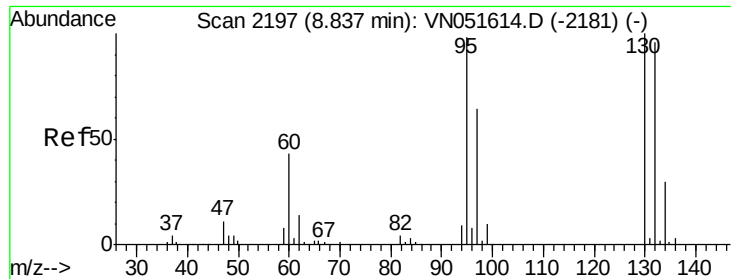
MMDadoda
10/3/2018 5:27:37 PM



#36
1,2-Dichloroethane
Concen: 148.232 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	62	Resp	1478697
Ion	Ratio	Lower	Upper
62	100		
98	9.0	7.4	11.2





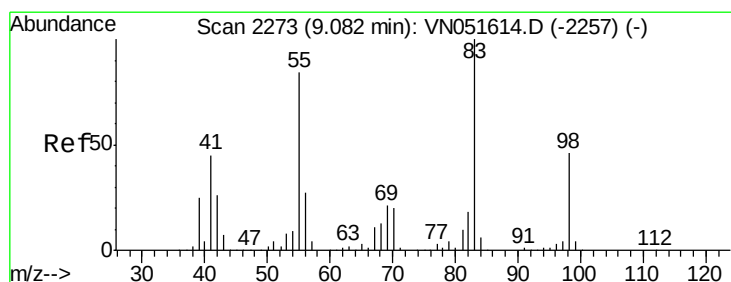
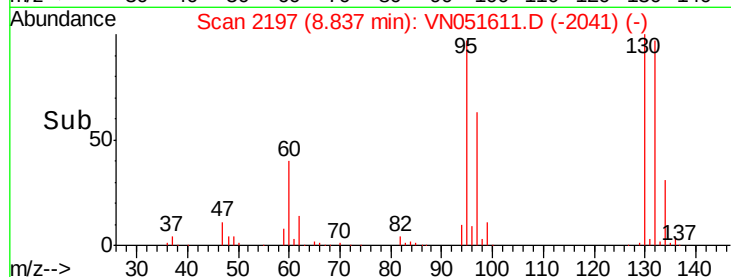
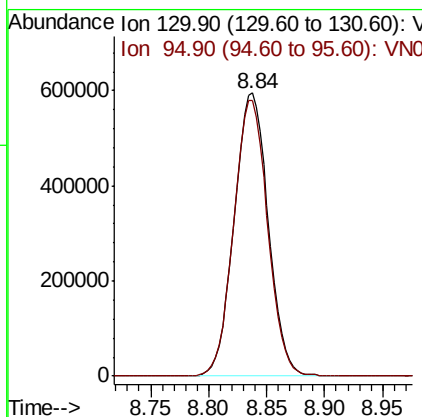
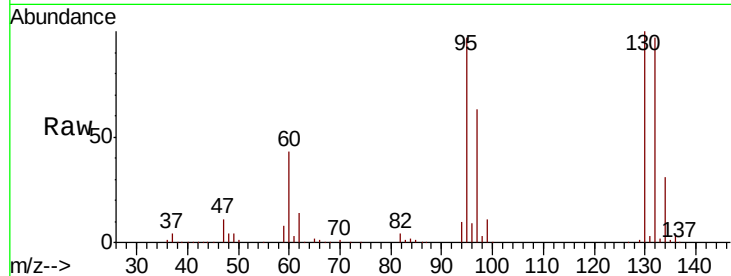
#37
 Trichloroethene
 Concen: 151.193 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion:130 Resp: 1214838
 Ion Ratio Lower Upper
 130 100
 95 97.3 78.4 117.6

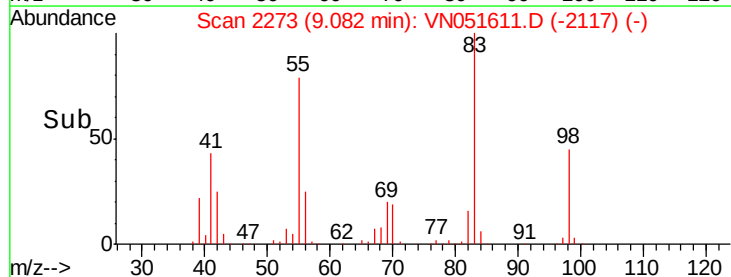
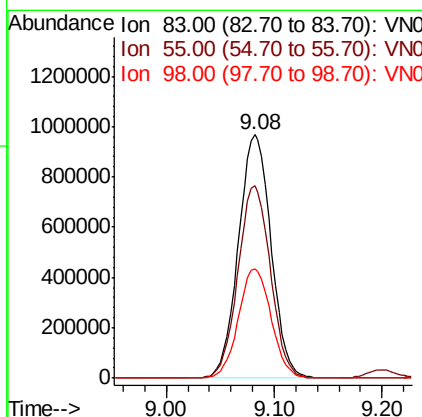
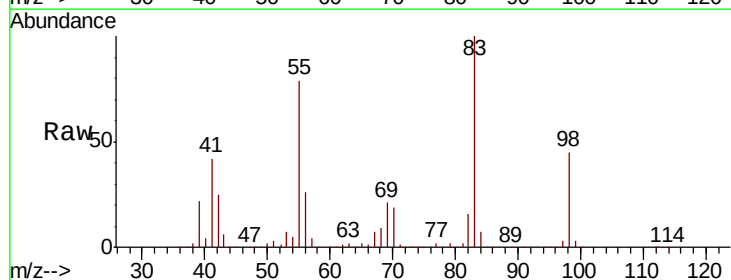
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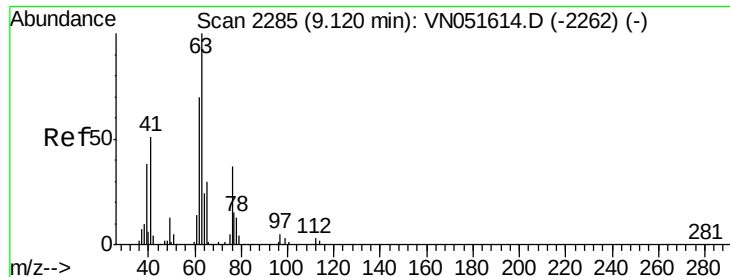
MMDadoda
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#38
 Methylcyclohexane
 Concen: 167.122 ug/l
 RT: 9.08 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion: 83 Resp: 2034239
 Ion Ratio Lower Upper
 83 100
 55 78.8 41.6 124.9
 98 45.1 23.1 69.2





#39

1,2-Dichloropropane

Concen: 150.186 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tot Ion: 63 Resp: 1287911

Ion Ratio Lower Upper

63 100

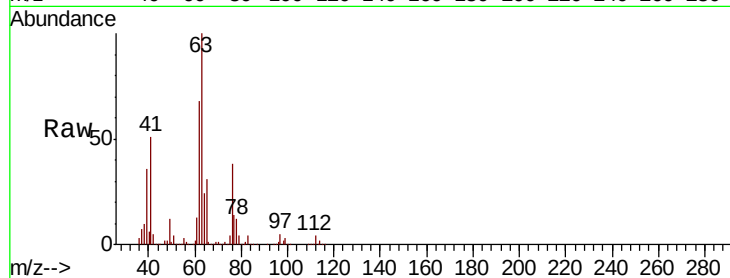
65 30.8 24.4 36.6

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0

9.12

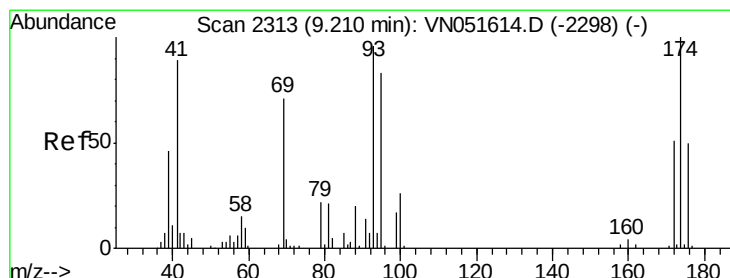
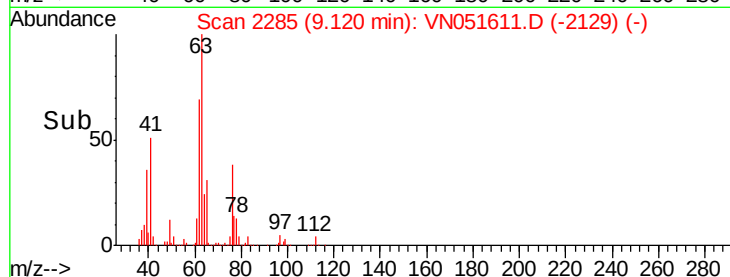
600000

400000

200000

0

Time-->



#40

Dibromomethane

Concen: 150.147 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

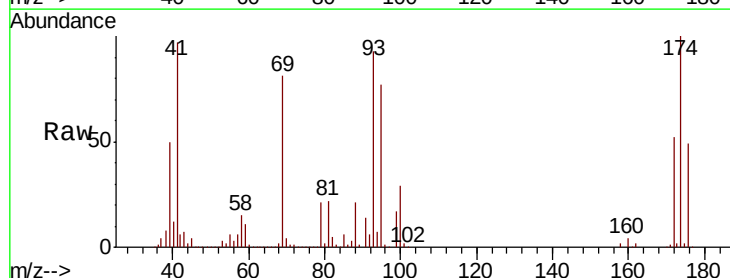
Tgt Ion: 93 Resp: 715248

Ion Ratio Lower Upper

93 100

95 83.0 0.0 171.0

174 107.1 0.0 212.0



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

9.21

500000

400000

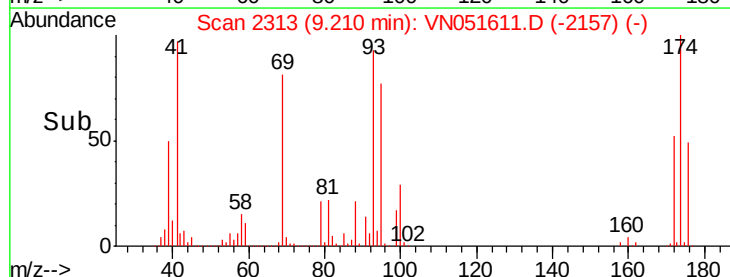
300000

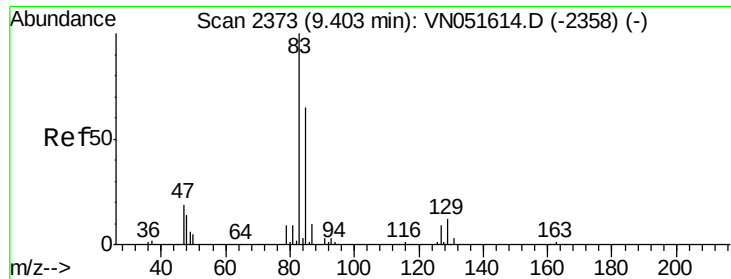
200000

100000

0

Time-->





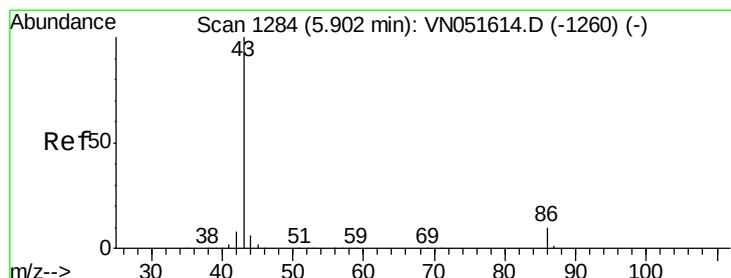
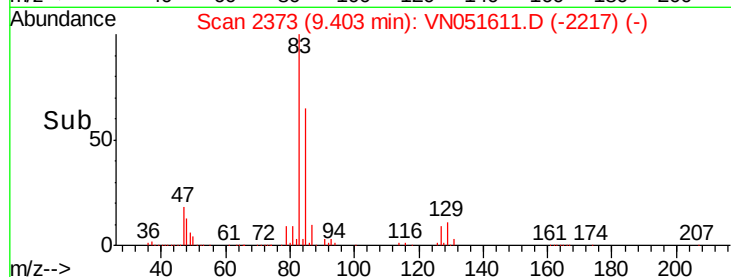
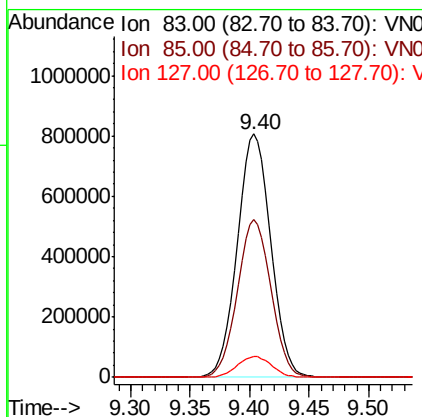
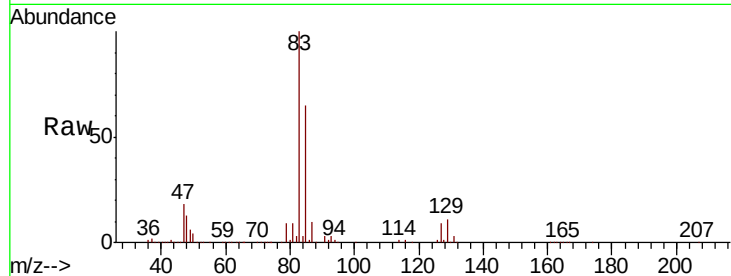
#41
Bromodichloromethane
Concen: 151.475 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	83	85	127
Resp	1575075		
Ratio	100	64.8	8.6
Lower		52.1	7.1
Upper		78.1	10.7

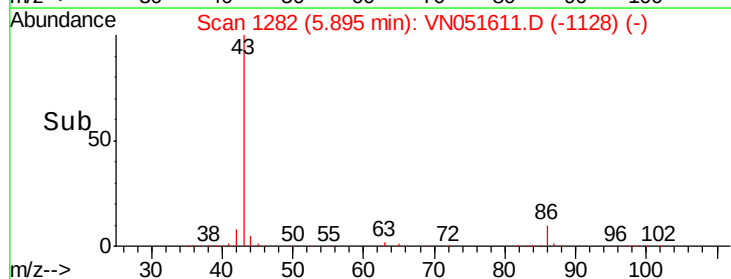
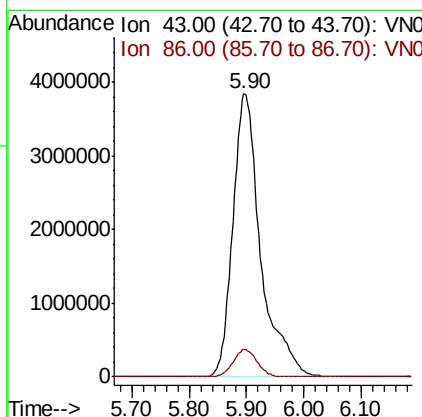
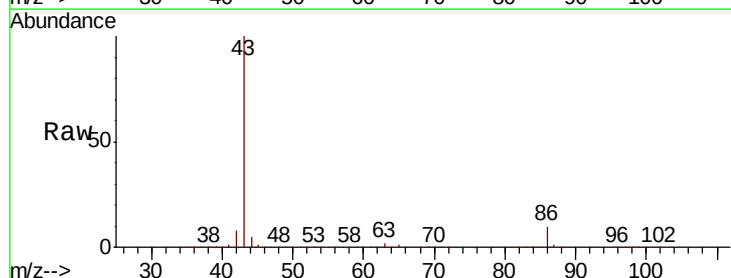
Manual Integrations
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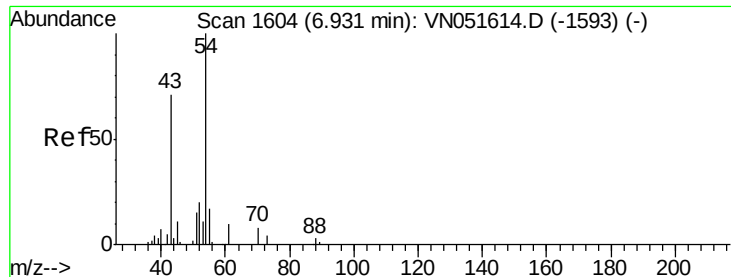
MMDadoda
10/3/2018 5:27:37 PM



#42
Vinyl Acetate
Concen: 813.077 ug/l
RT: 5.90 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	43	86
Resp	12995453	
Ratio	100	8.5
Lower		6.6
Upper		9.8





#43

Ethyl Acetate

Concen: 159.773 ug/l

RT: 6.93 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 970925

Ion Ratio Lower Upper

43 100

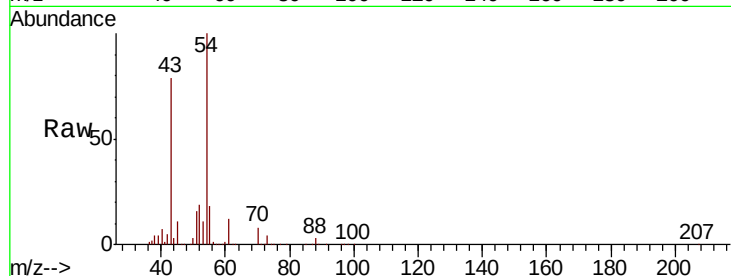
45 13.5 10.6 16.0

Manual Integrations

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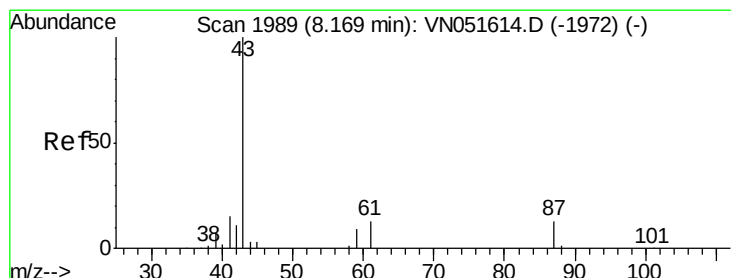
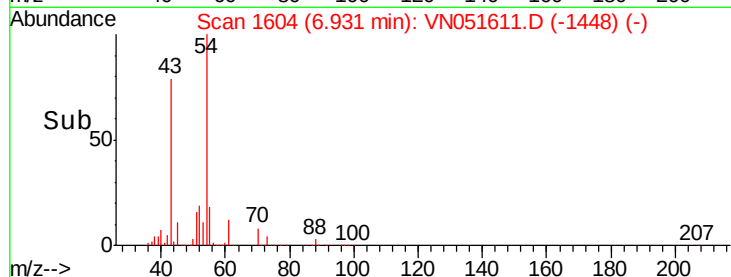
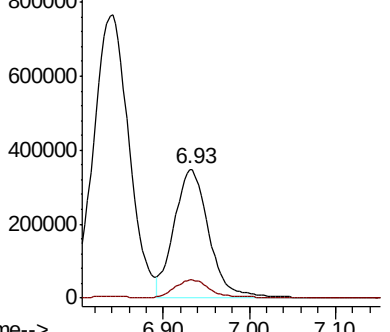
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 153.216 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051611.D

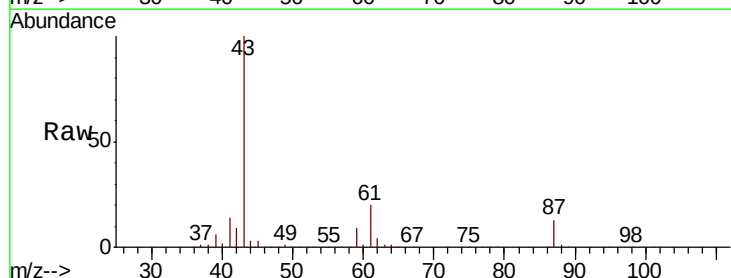
Acq: 28 Sep 2018 9:53

Tgt Ion: 43 Resp: 1823073

Ion Ratio Lower Upper

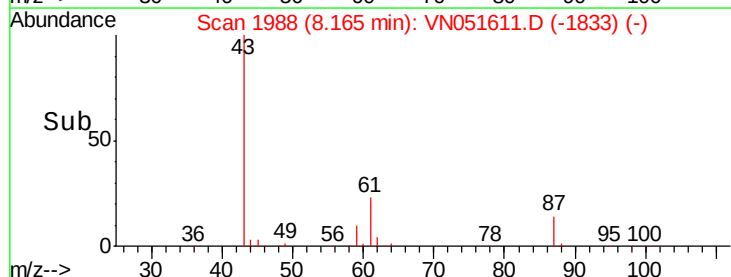
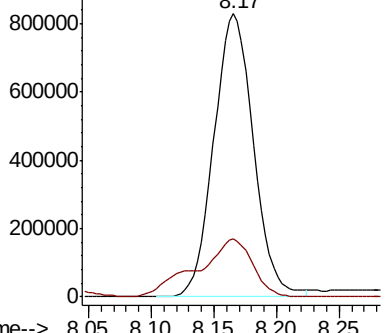
43 100

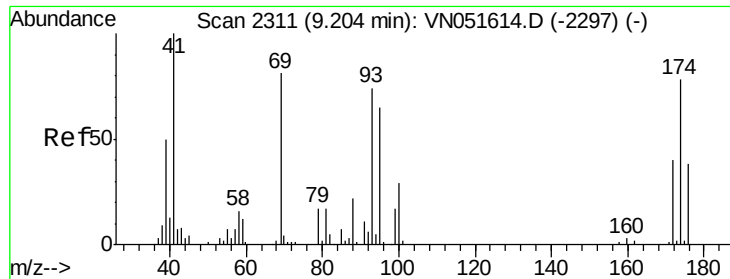
61 20.2 15.4 23.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





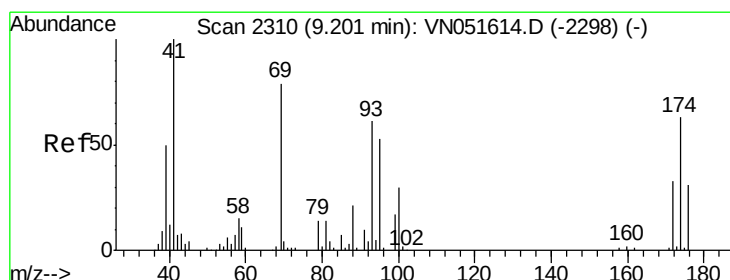
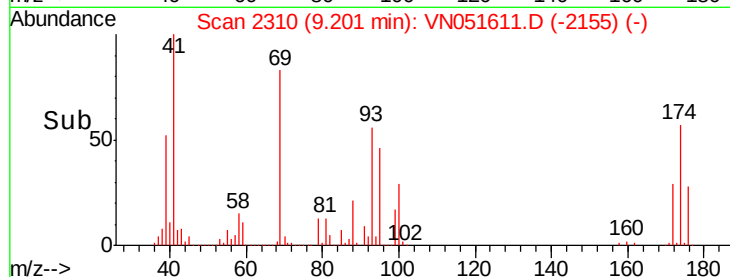
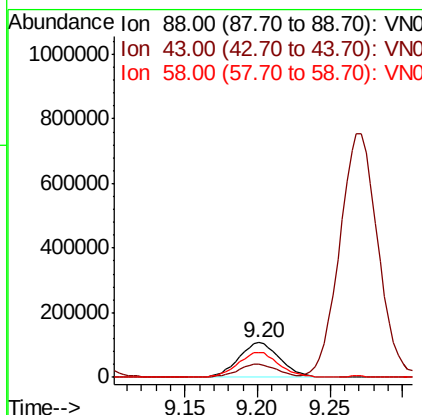
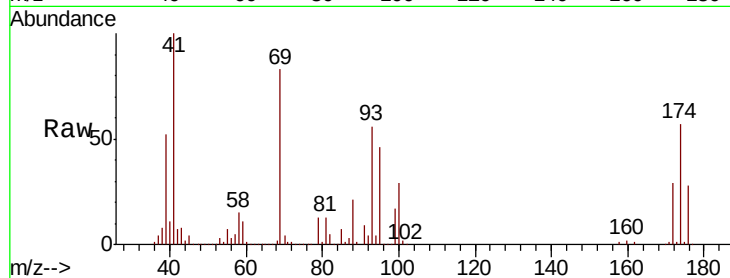
#45
 1,4-Dioxane
 Concen: 3308.894 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.8	29.0	43.6
58	71.8	59.0	88.6

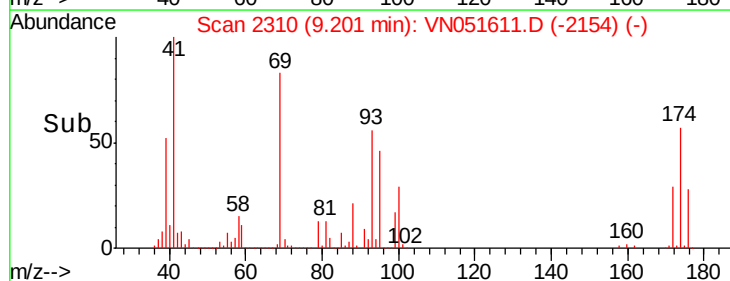
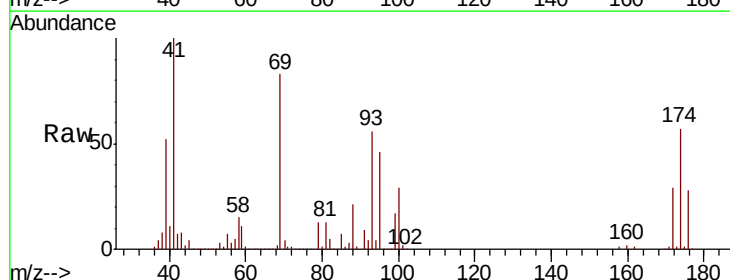
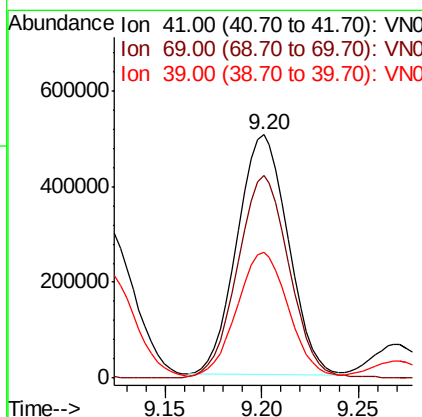
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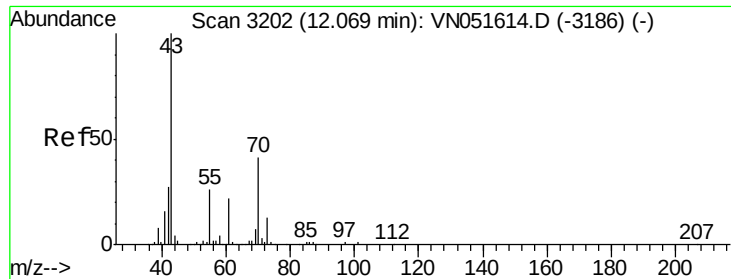
MMDadoda
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#46
 Methyl methacrylate
 Concen: 167.089 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
41	100		
69	83.9	39.6	118.7
39	51.4	24.9	74.6





#47

n-amyl Acetate

Concen: 190.390 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 43 Resp: 1695006

Ion Ratio Lower Upper

43 100

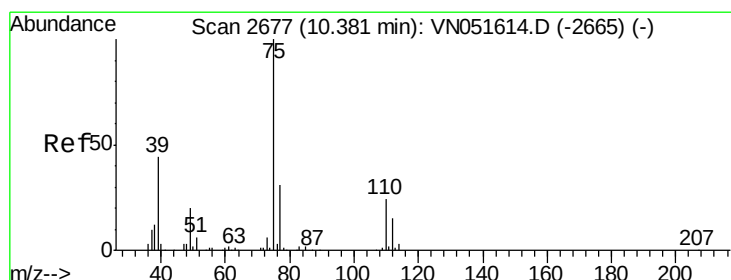
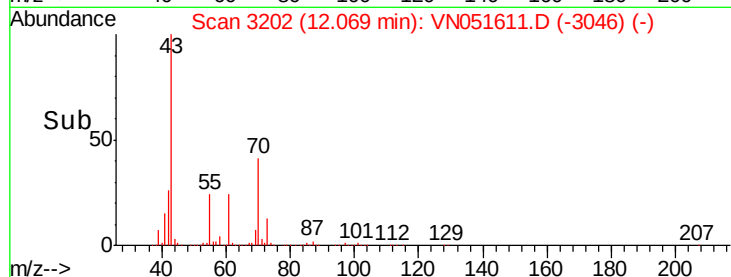
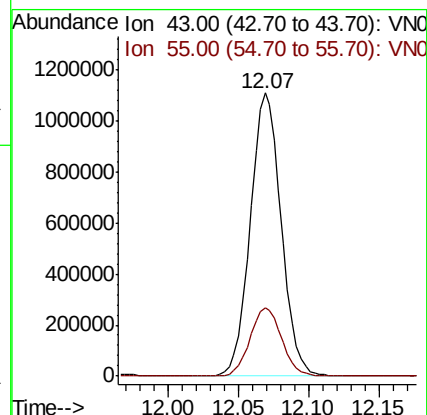
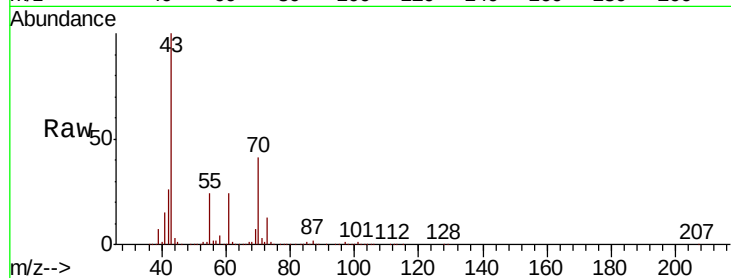
55 24.8 21.5 32.3

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 164.551 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN051611.D

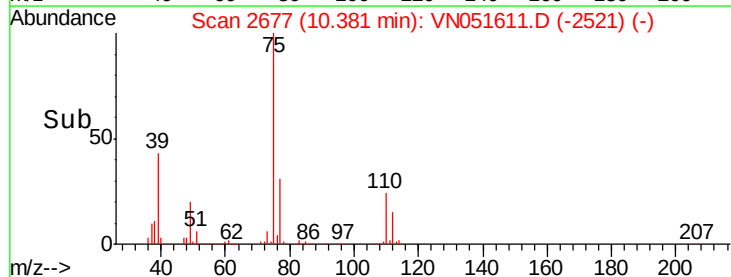
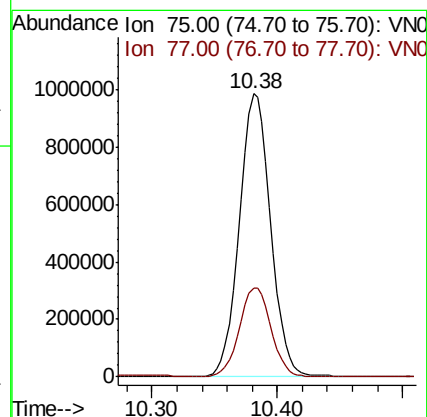
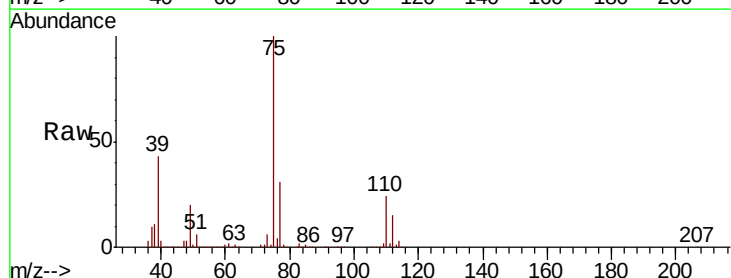
Acq: 28 Sep 2018 9:53

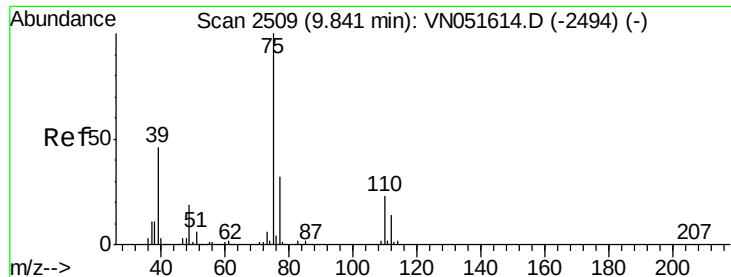
Tgt Ion: 75 Resp: 1707750

Ion Ratio Lower Upper

75 100

77 31.3 26.0 39.0





#49

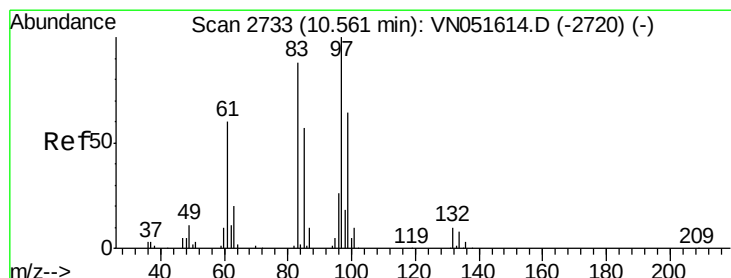
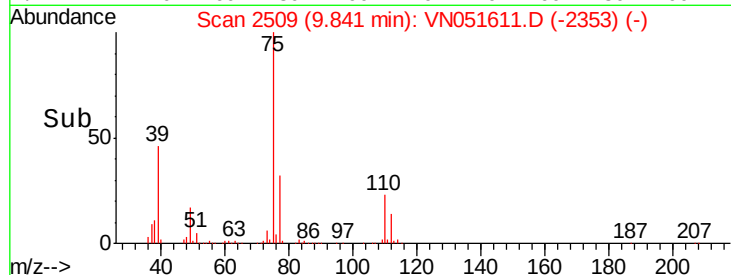
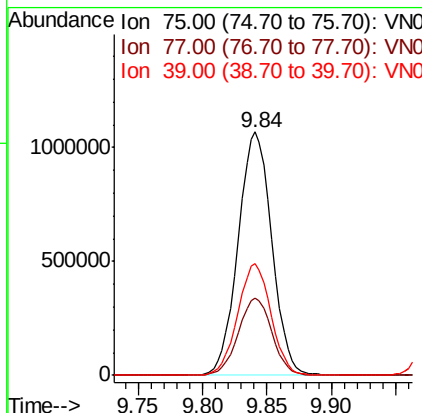
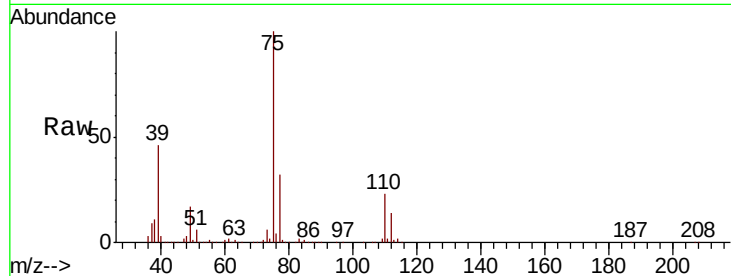
cis-1,3-Dichloropropene
 Concen: 160.611 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	45.9	36.6	55.0

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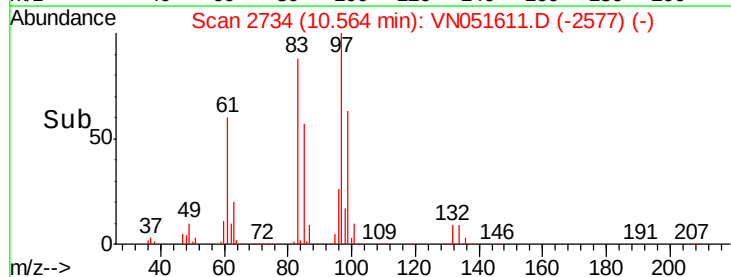
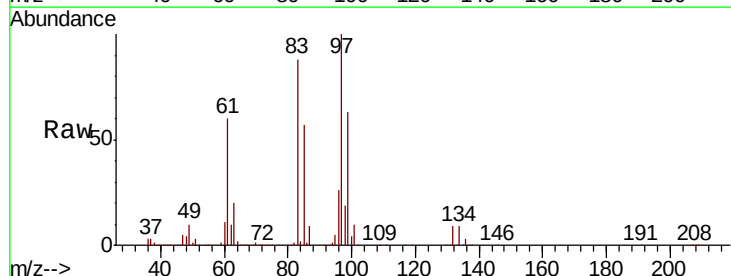
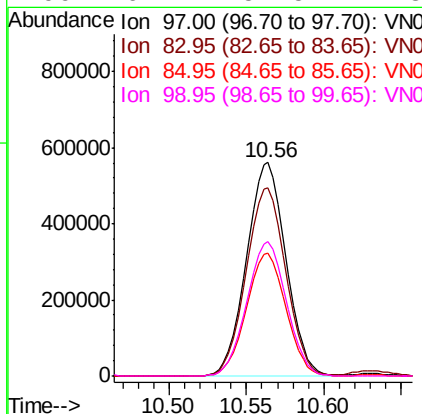
MMDadoda
 10/3/2018 5:27:37 PM

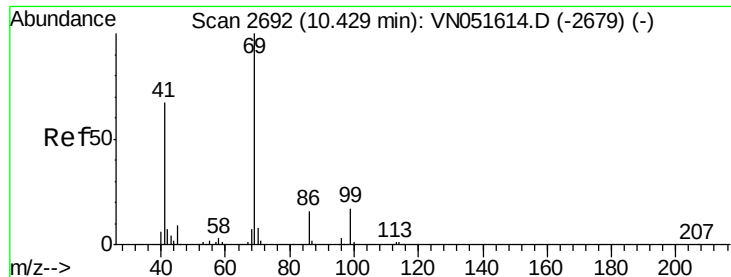


#50

1,1,2-Trichloroethane
 Concen: 147.849 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.4	70.2	105.2
85	57.3	45.6	68.4
99	62.7	51.5	77.3





#51

Ethyl methacrylate

Concen: 173.893 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion: 69 Resp: 1420329

Ion Ratio Lower Upper

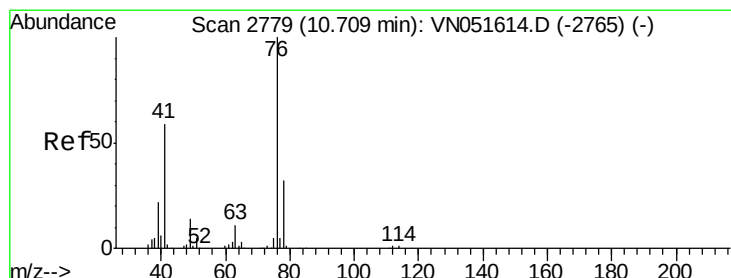
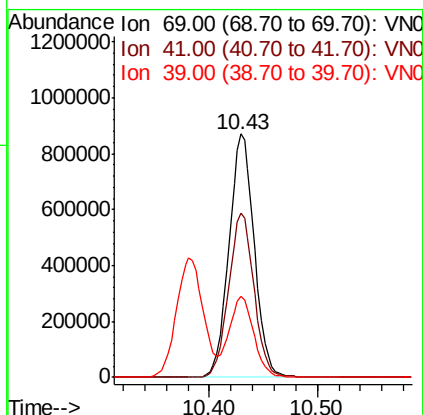
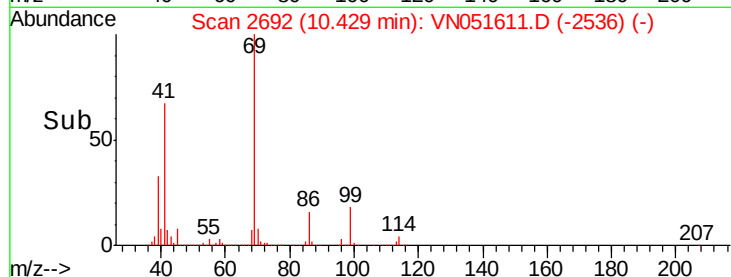
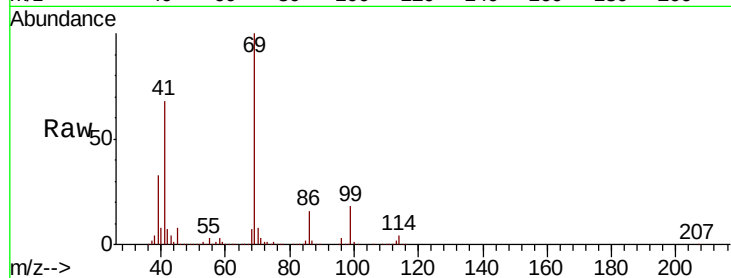
69 100

41 67.5 33.3 99.8

39 33.1 17.2 51.6

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 153.090 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051611.D

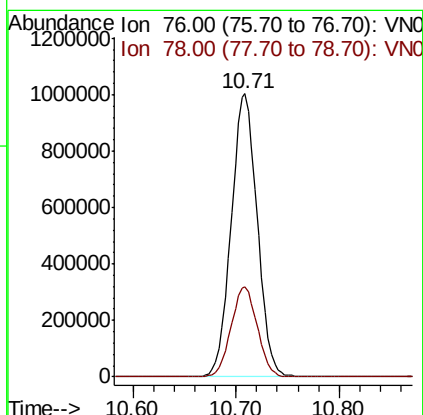
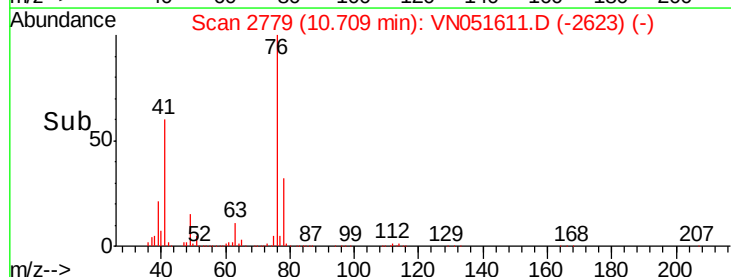
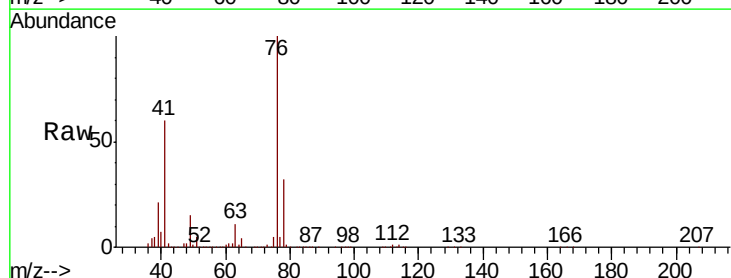
Acq: 28 Sep 2018 9:53

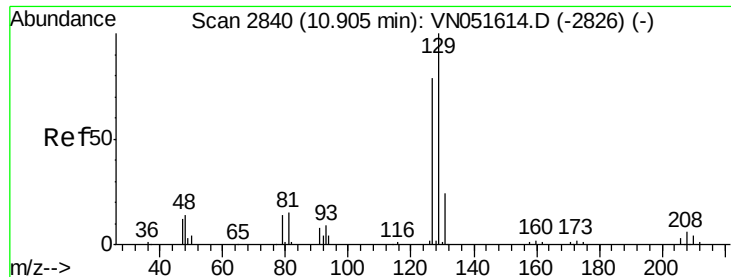
Tgt Ion: 76 Resp: 1767052

Ion Ratio Lower Upper

76 100

78 32.2 0.0 63.4





#53

Dibromochloromethane

Concen: 155.415 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. -0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:129 Resp: 1191608

Ion Ratio Lower Upper

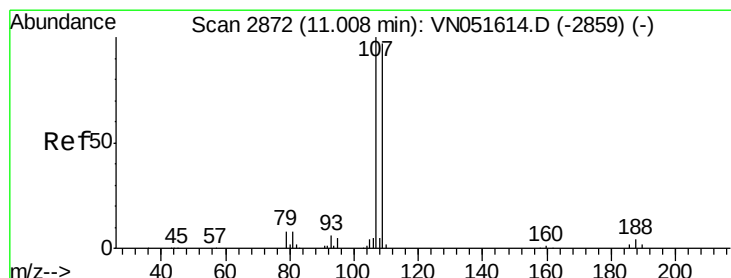
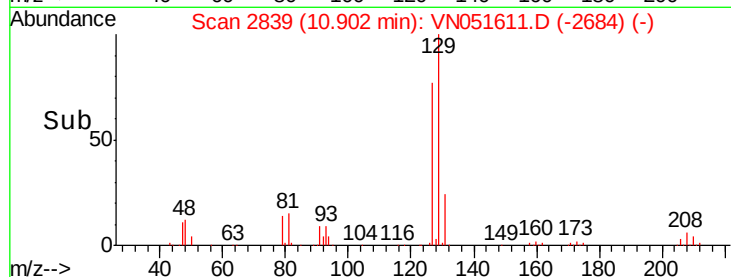
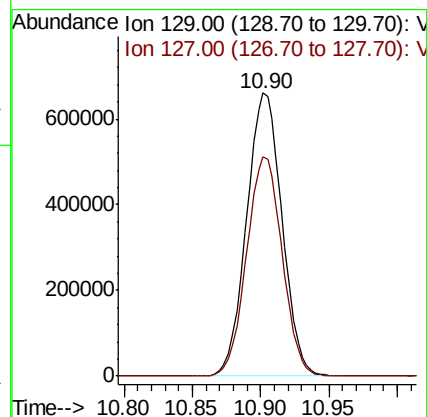
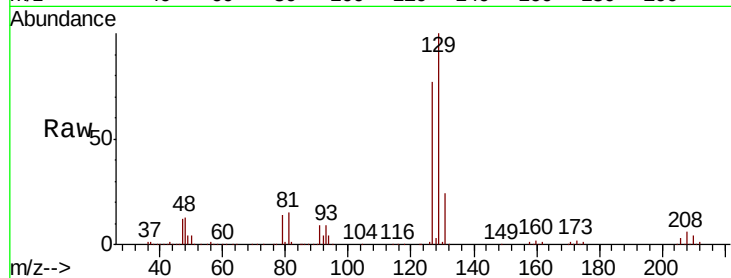
129 100

127 77.8 38.9 116.7

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 158.022 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN051611.D

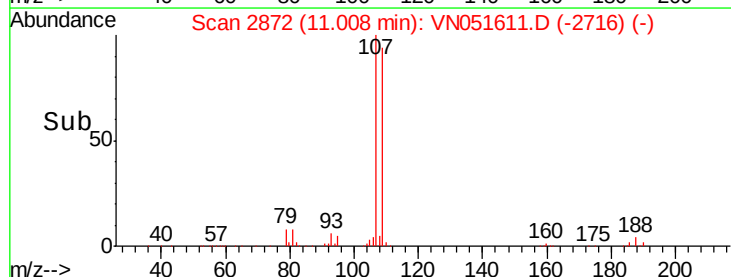
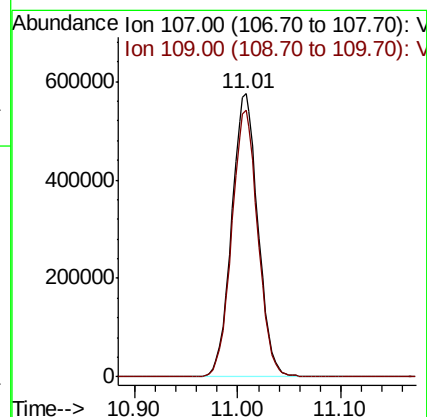
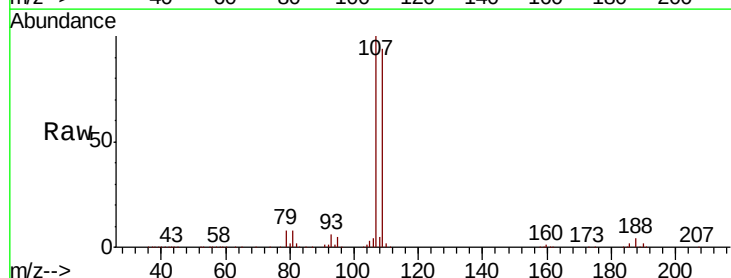
Acq: 28 Sep 2018 9:53

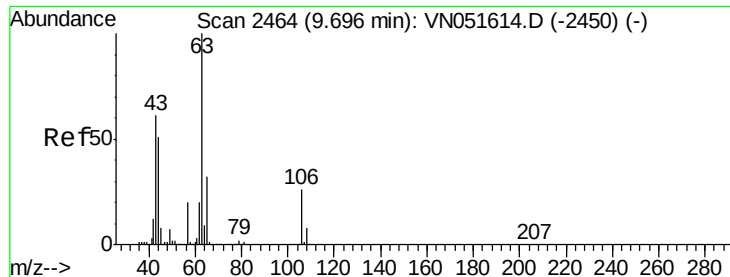
Tgt Ion:107 Resp: 1020754

Ion Ratio Lower Upper

107 100

109 93.9 76.5 114.7





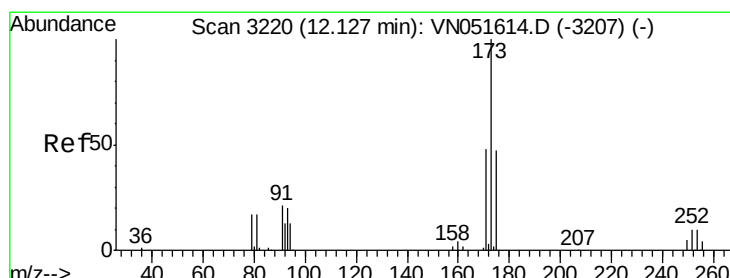
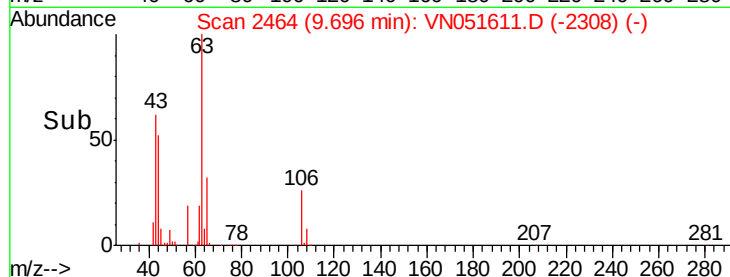
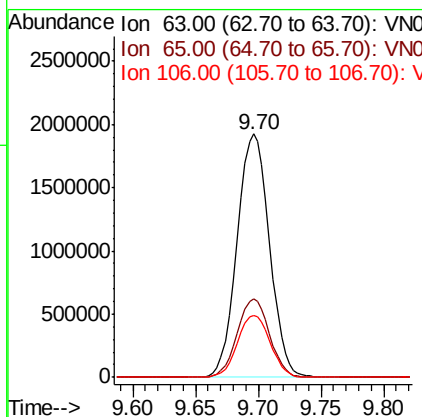
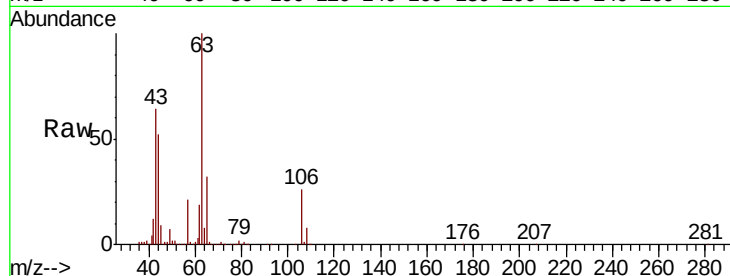
#55
2-Chloroethyl vinyl ether
Concen: 857.109 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion: 63 Resp: 3460310
Ion Ratio Lower Upper
63 100
65 32.1 25.8 38.6
106 25.8 20.4 30.6

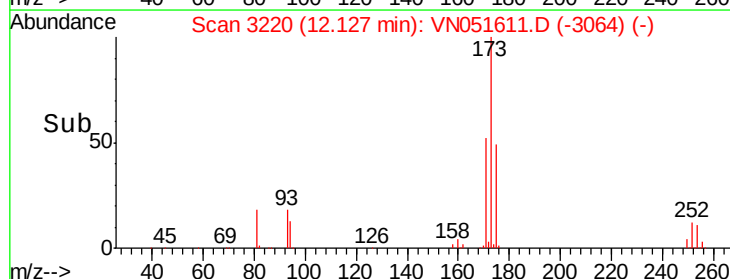
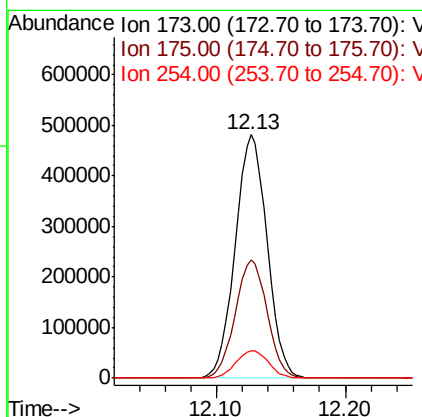
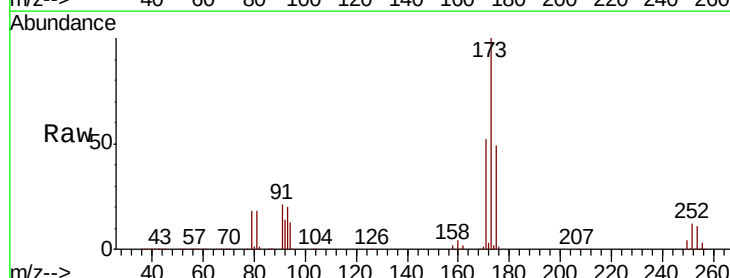
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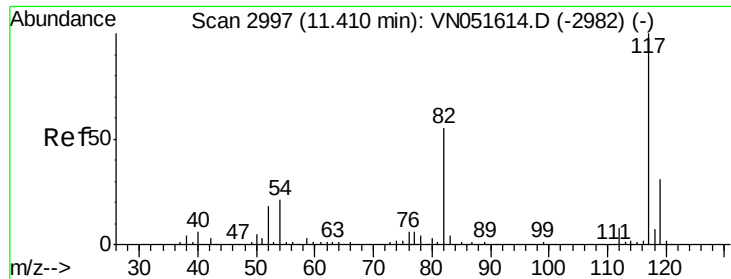
MMDadoda
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#56
Bromoform
Concen: 162.288 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 173 Resp: 825654
Ion Ratio Lower Upper
173 100
175 48.6 39.0 58.4
254 11.6 8.7 13.1





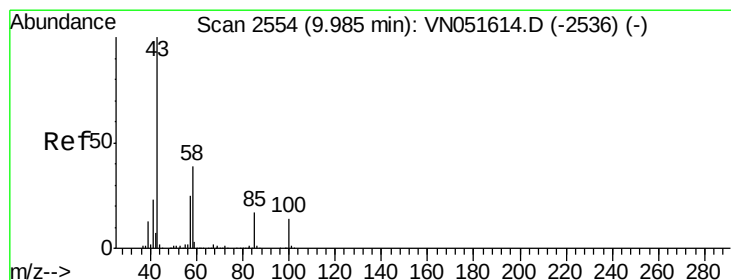
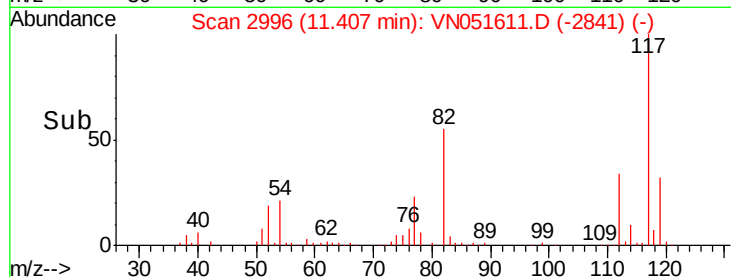
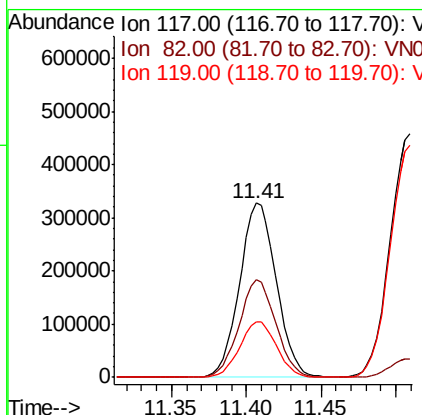
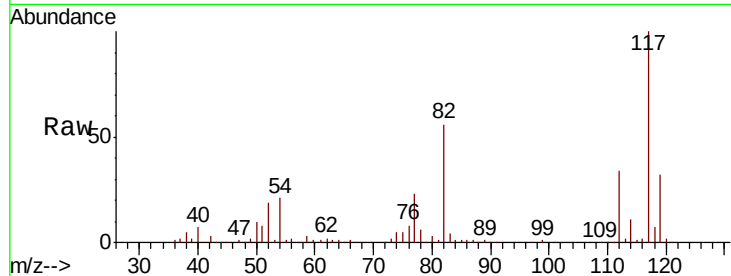
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.1	44.2	66.2
119	32.0	25.2	37.8

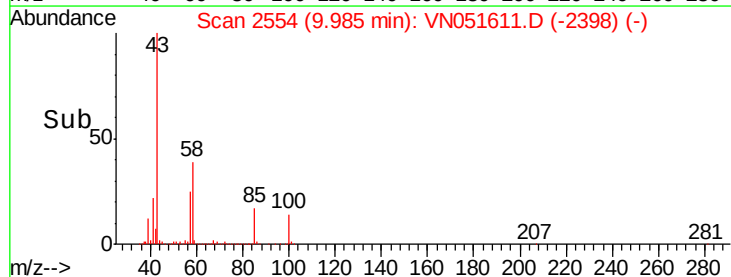
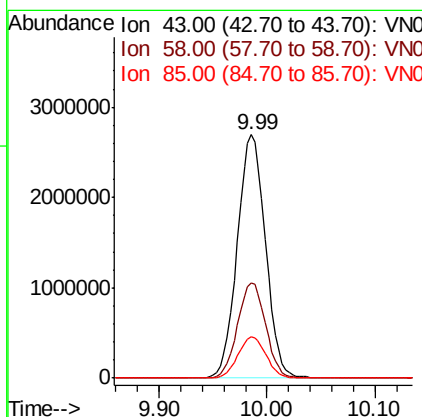
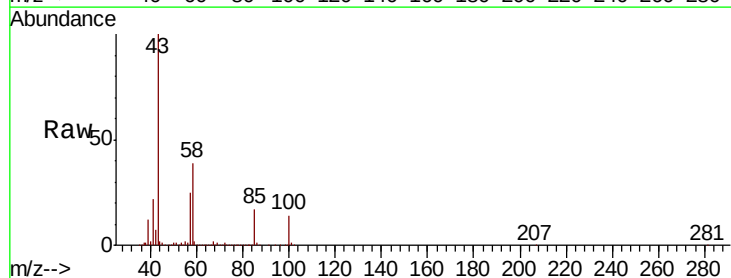
Manual Integrations
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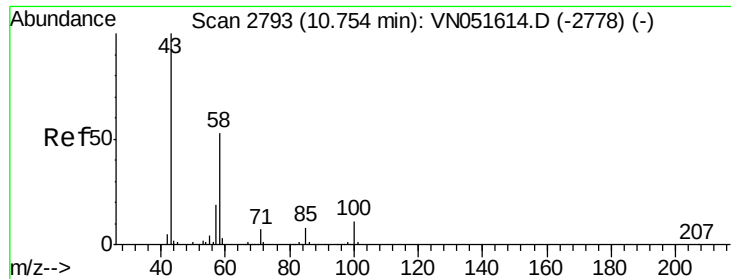
MMDadoda
10/3/2018 5:27:37 PM



#58
4-Methyl-2-Pentanone
Concen: 770.293 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.0	31.0	46.4
85	16.8	13.4	20.2





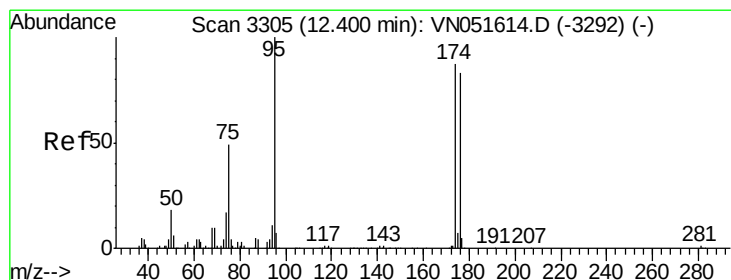
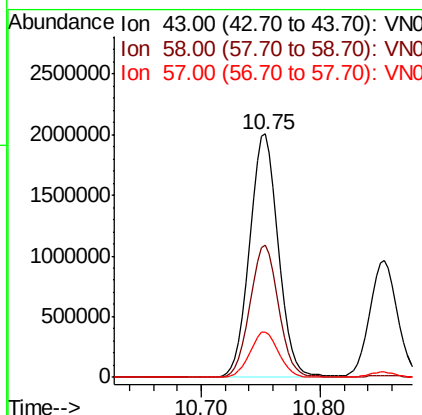
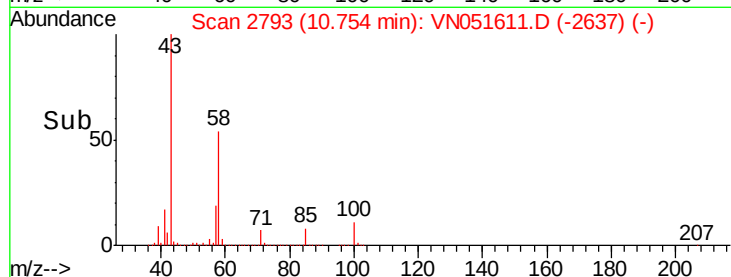
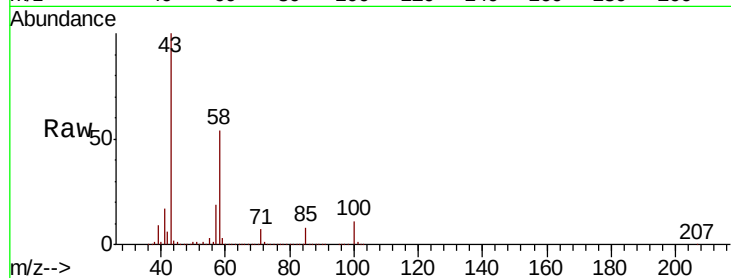
#59
2-Hexanone
Concen: 799.713 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.4	41.5	62.3
57	18.7	14.2	21.4

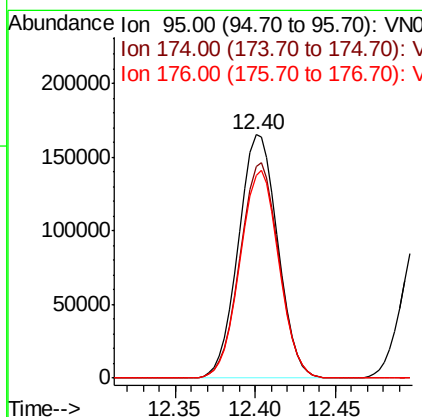
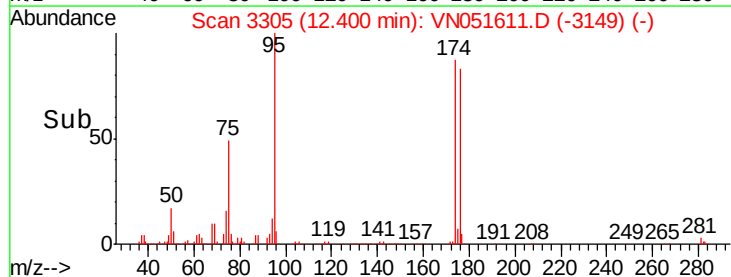
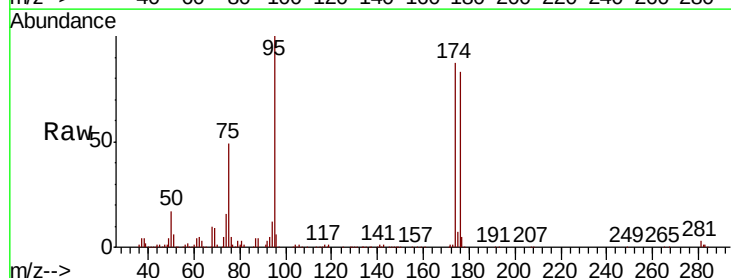
Manual Integrations
APPROVED

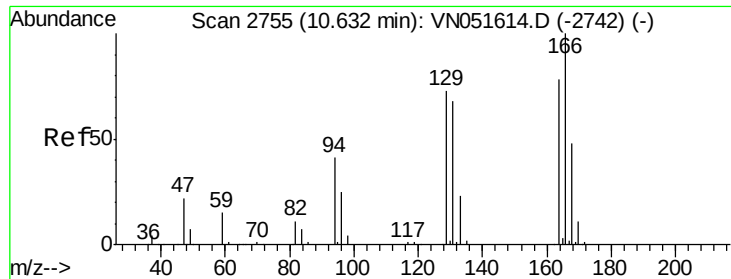
MMDadoda
10/3/2018 5:27:37 PM



#60
4-Bromofluorobenzene
Concen: 799.713 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.3	71.2	106.8
176	84.6	67.8	101.8





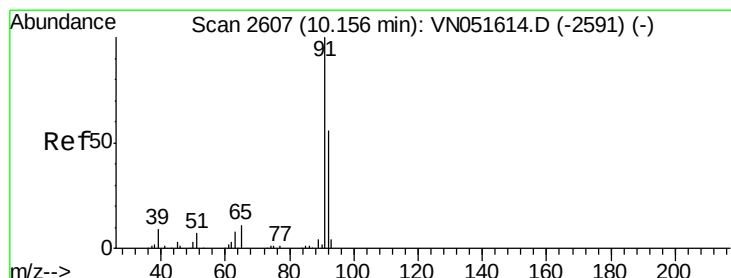
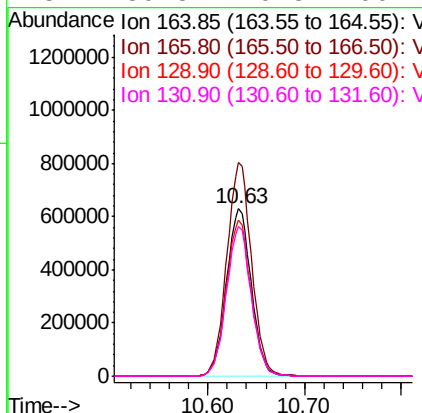
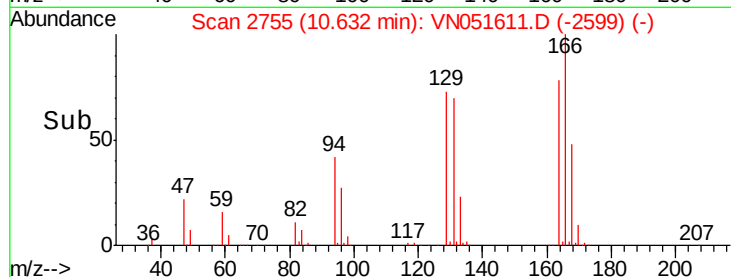
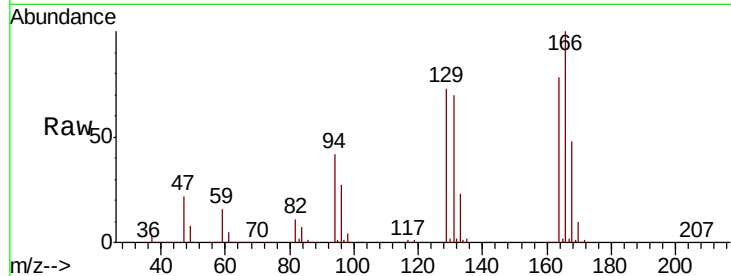
#61
Tetrachloroethene
Concen: 141.586 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion:164 Resp: 1123869
Ion Ratio Lower Upper
164 100
166 127.6 103.1 154.7
129 93.3 75.3 112.9
131 89.8 70.8 106.2

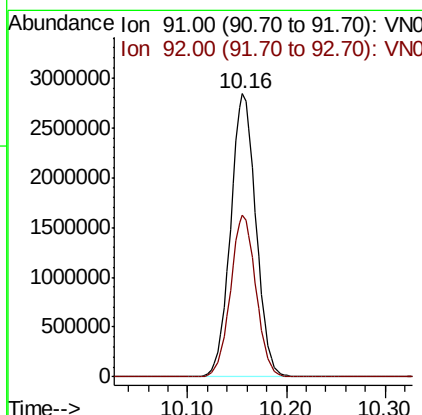
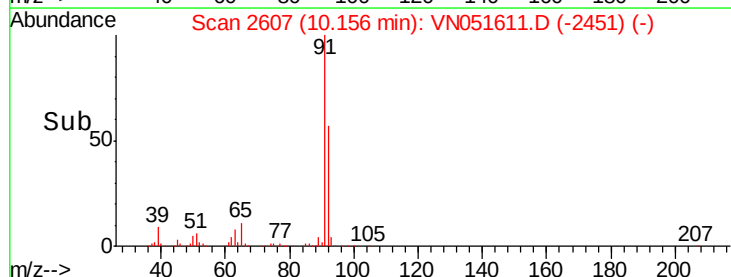
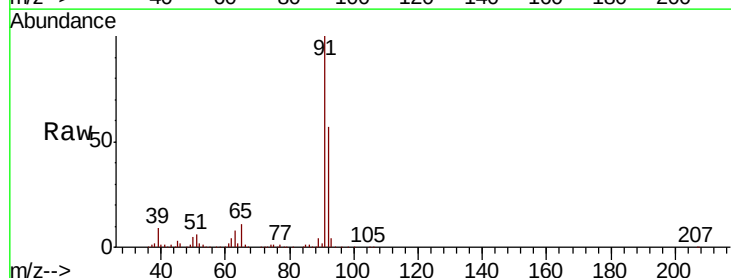
Manual Integrations
APPROVED

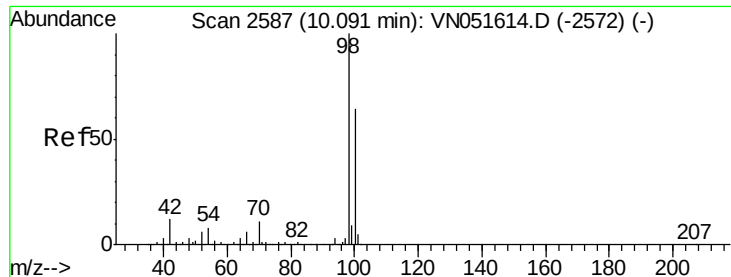
MMDadoda
10/3/2018 5:27:37 PM



#62
Toluene
Concen: 147.995 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 5087703
Ion Ratio Lower Upper
91 100
92 57.1 45.3 67.9





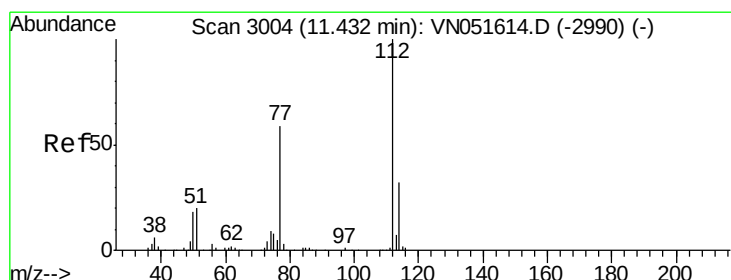
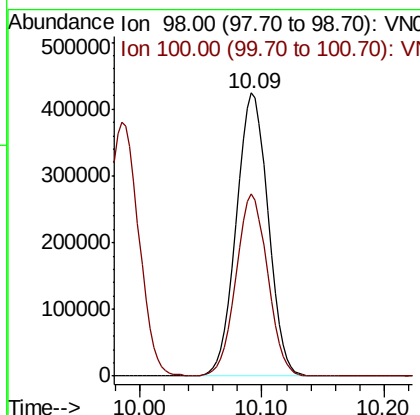
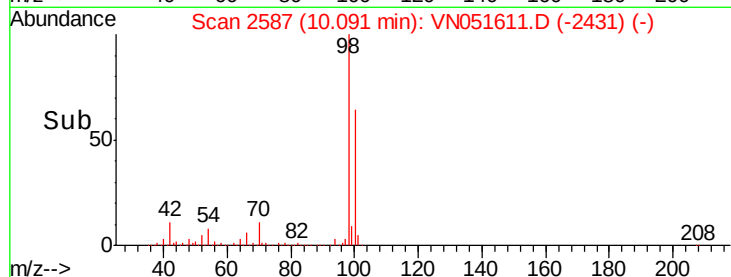
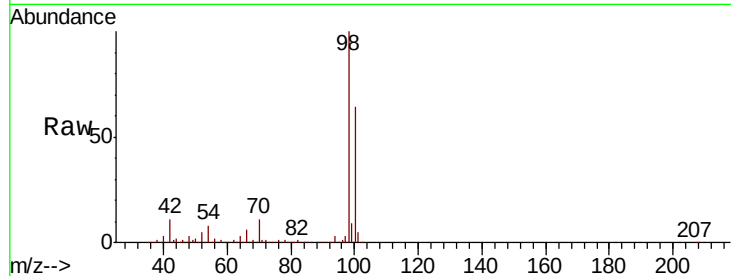
#63
Toluene-d8
Concen: 147.995 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
98	100		
100	63.5	51.4	77.0

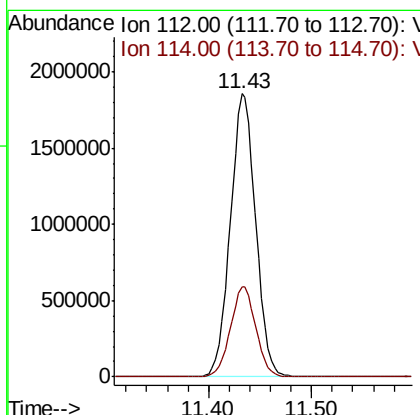
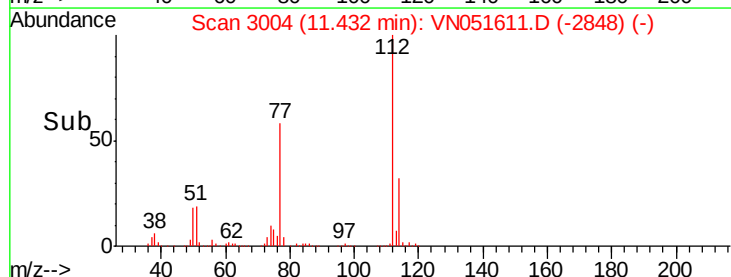
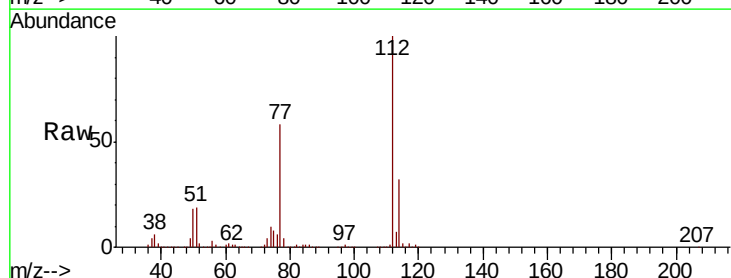
Manual Integrations
APPROVED

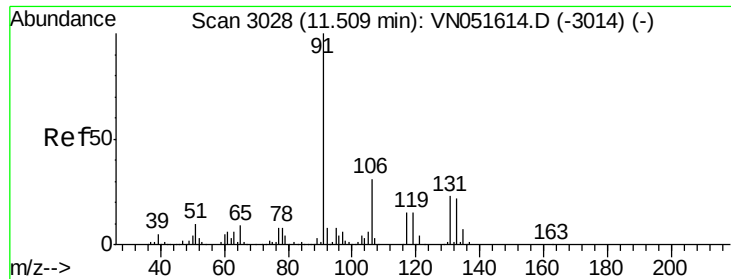
MMDadoda
10/3/2018 5:27:37 PM



#64
Chlorobenzene
Concen: 152.534 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.9	25.9	38.9





#65

1,1,1,2-Tetrachloroethane

Concen: 149.437 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:131 Resp: 1186067

Ion Ratio Lower Upper

131 100

133 95.0 0.0 193.0

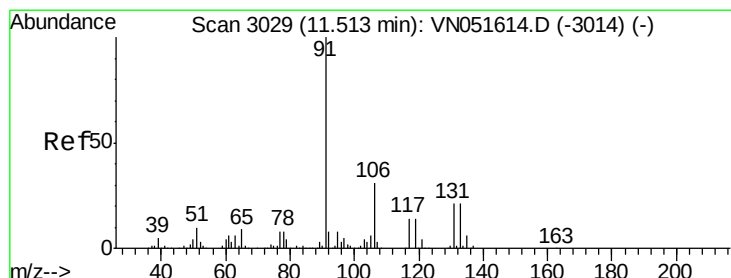
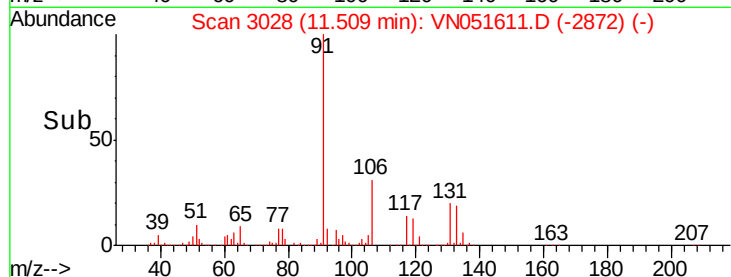
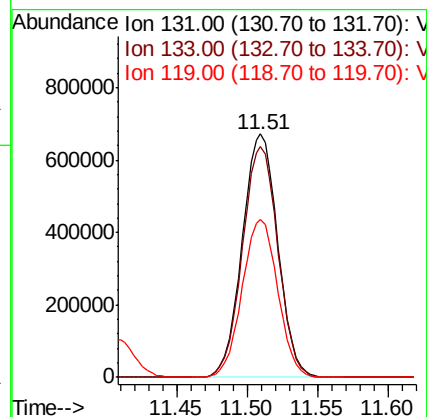
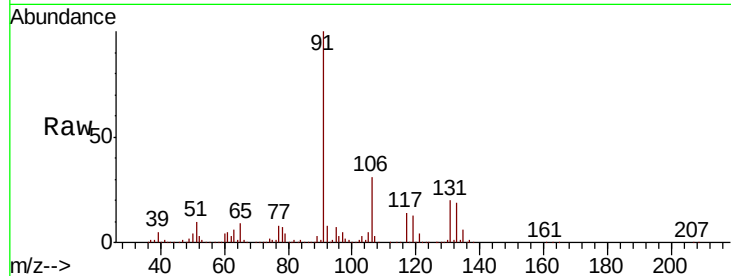
119 65.1 0.0 135.0

Manual Integrations

APPROVED

MMDadoda

10/3/2018 5:27:37 PM



#66

Ethyl Benzene

Concen: 161.169 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051611.D

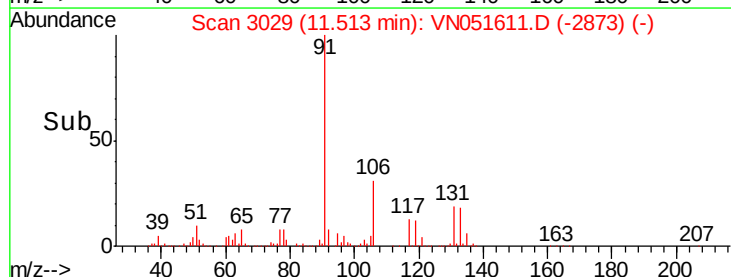
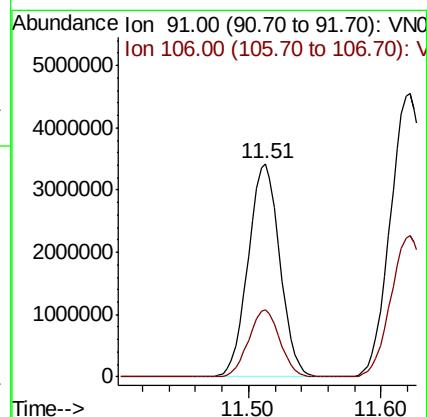
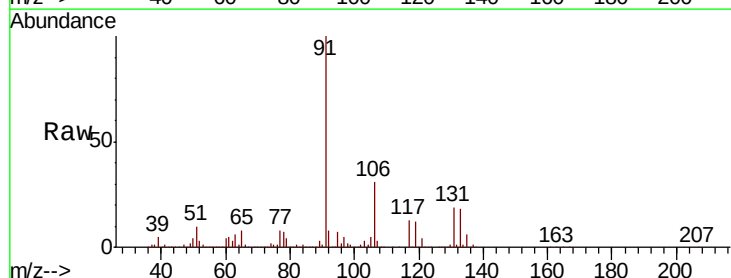
Acq: 28 Sep 2018 9:53

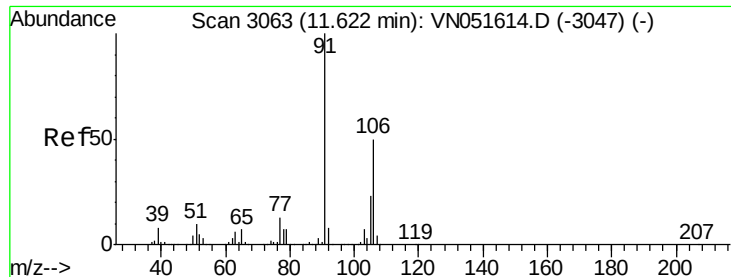
Tgt Ion: 91 Resp: 5670569

Ion Ratio Lower Upper

91 100

106 31.5 25.0 37.4





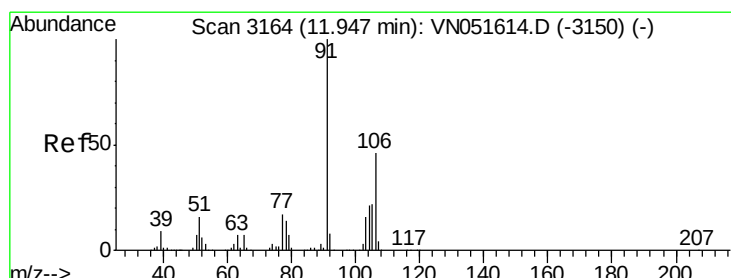
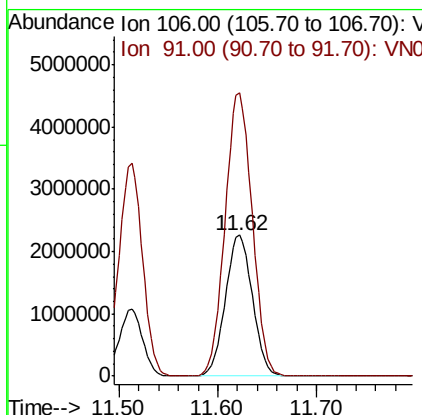
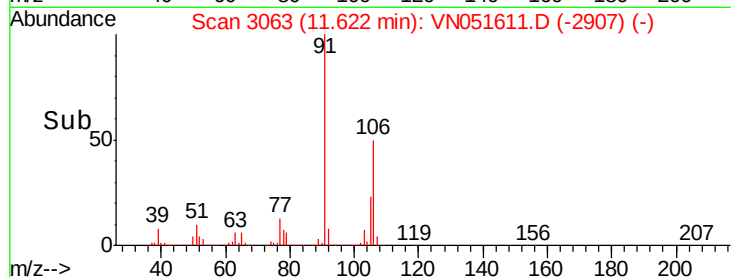
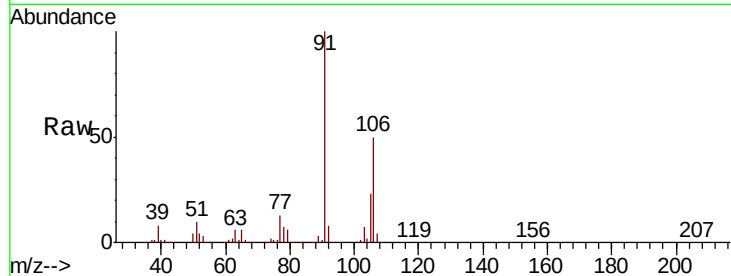
#67
m/p-Xylenes
Concen: 319.802 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampled :
VSTDIC150

Tot Ion:106 Resp: 4336528
Ion Ratio Lower Upper
106 100
91 202.2 161.5 242.3

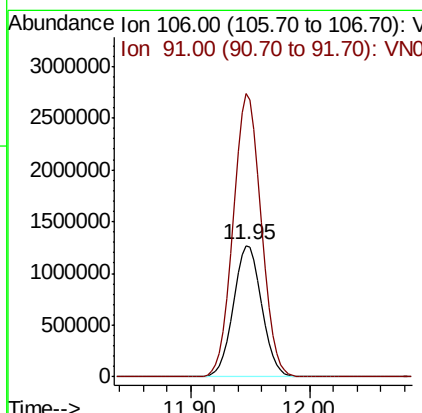
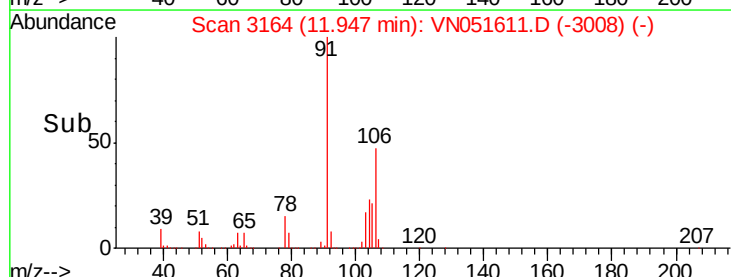
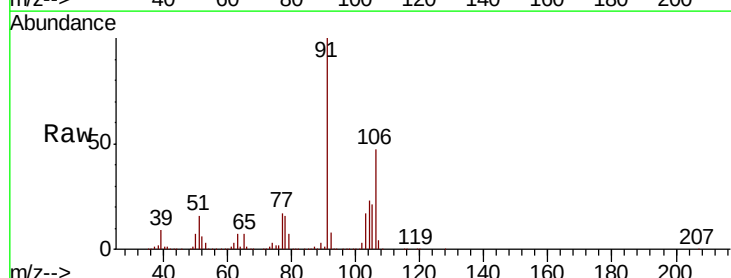
Manual Integrations
APPROVED

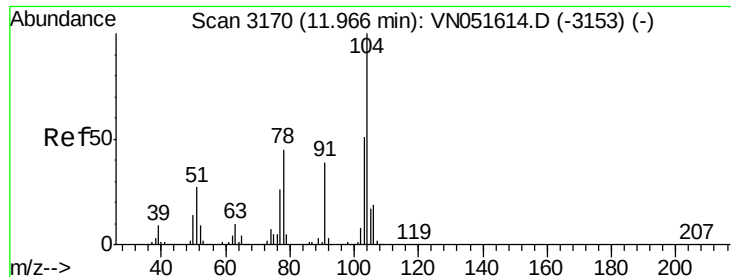
MMDadoda
10/3/2018 5:27:37 PM



#68
o-Xylene
Concen: 161.387 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion:106 Resp: 2089036
Ion Ratio Lower Upper
106 100
91 213.3 109.7 329.1





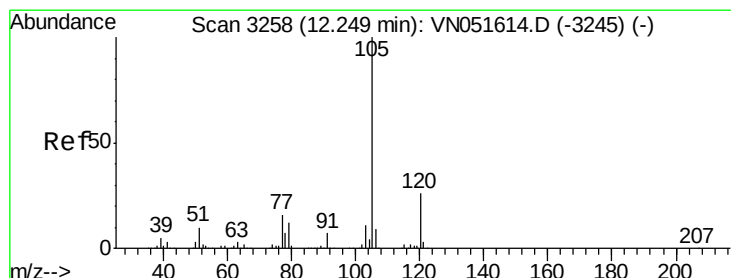
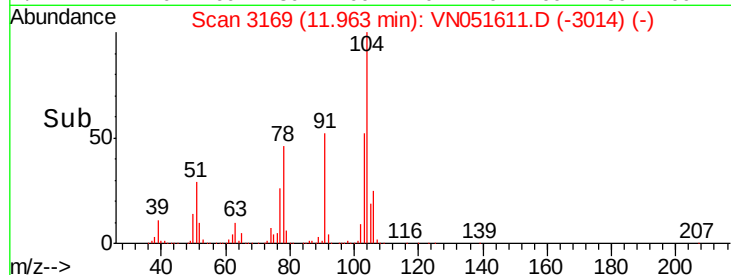
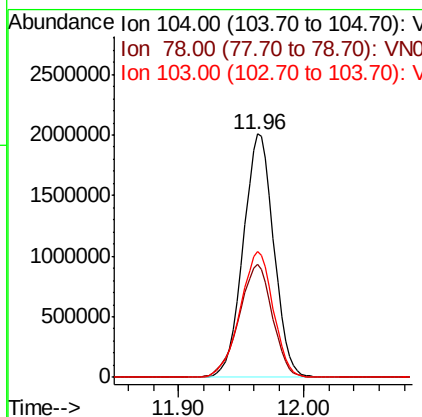
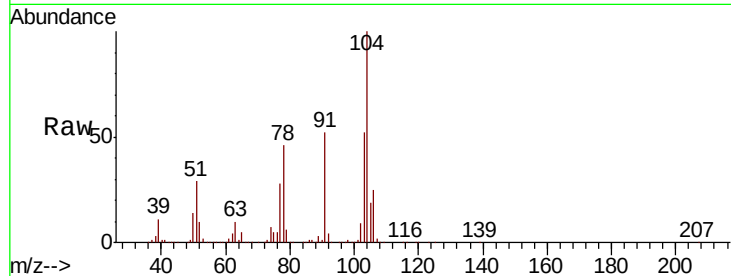
#69
Stvrene
Concen: 167.389 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.6	40.3	60.5
103	55.8	45.7	68.5

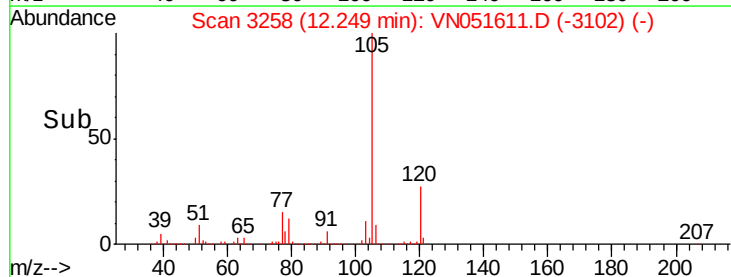
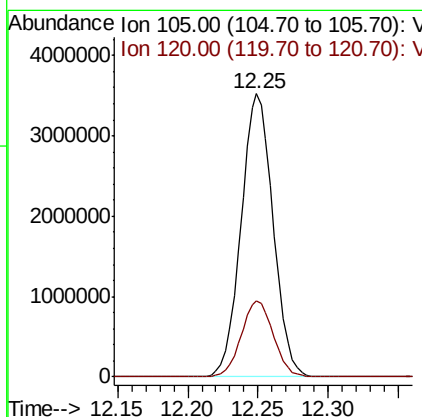
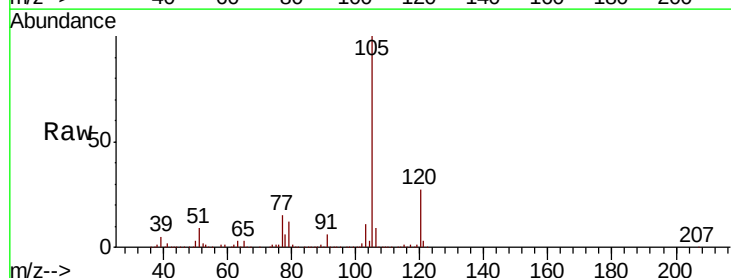
Manual Integrations
APPROVED

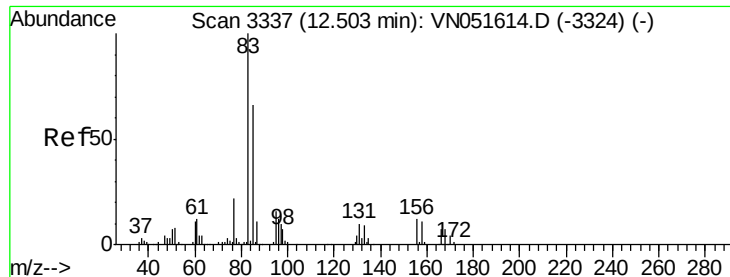
MMDadoda
10/3/2018 5:27:37 PM



#70
Isopropylbenzene
Concen: 161.728 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.7	34.7





#71

1,1,2,2-Tetrachloroethane

Concen: 149.381 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 1247905

Ion Ratio Lower Upper

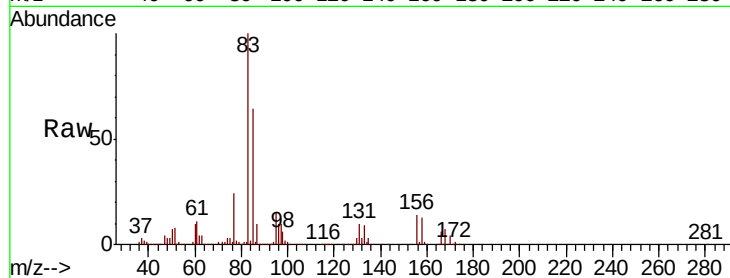
83 100

131 10.4 5.2 15.6

85 63.9 32.0 96.2

Manual Integrations
APPROVED

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10/3/2018 5:27:37 PM



Abundance Ion 83.00 (82.70 to 83.70): VN051611.D (-3181) (-)

Ion 131.00 (130.70 to 131.70): VN051611.D (-3181) (-)

Ion 85.00 (84.70 to 85.70): VN051611.D (-3181) (-)

12.50

800000

600000

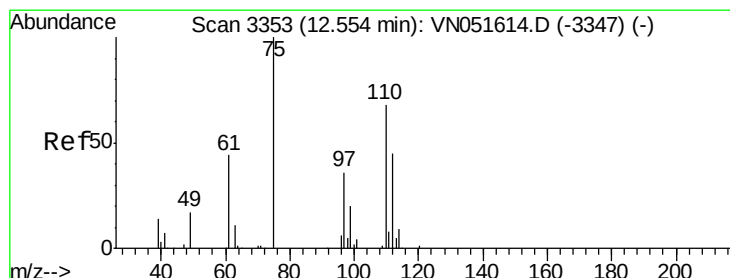
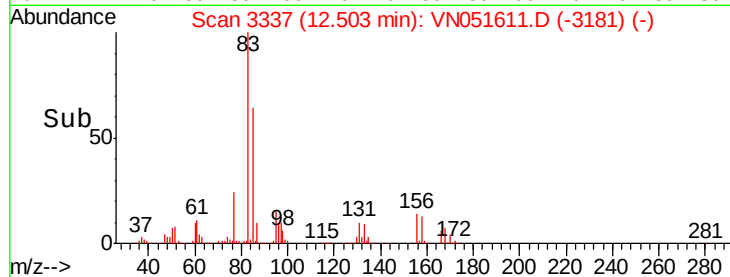
400000

200000

0

12.45 12.50 12.55

Time-->



#72

1,2,3-Trichloropropane

Concen: 141.347 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051611.D

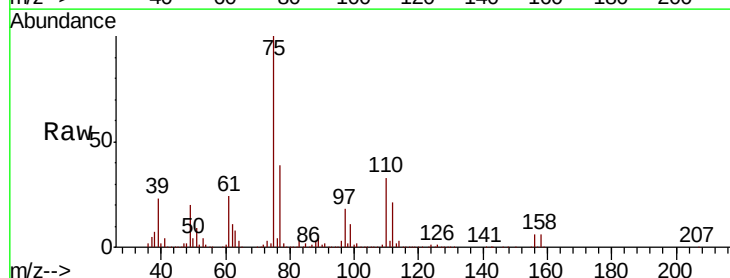
Acq: 28 Sep 2018 9:53

Tgt Ion: 75 Resp: 972879

Ion Ratio Lower Upper

75 100

77 265.3 0.0 492.2



Abundance Ion 75.00 (74.70 to 75.70): VN051611.D (-3197) (-)

Ion 77.00 (76.70 to 77.70): VN051611.D (-3197) (-)

1500000

1000000

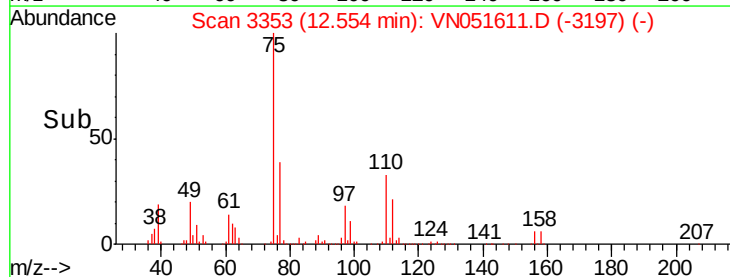
500000

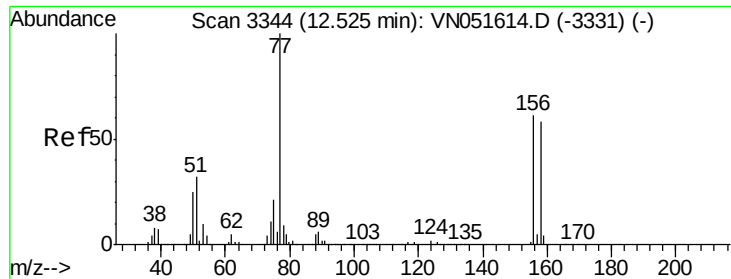
0

12.55

12.60

Time-->





#73

Bromobenzene

Concen: 159.923 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampled :

VSTDIC150

Tot Ion:156 Resp: 1374175

Ion Ratio Lower Upper

156 100

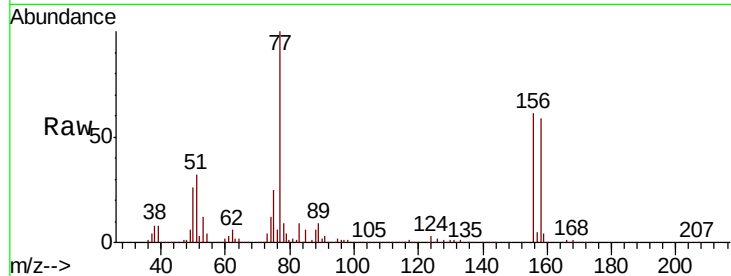
77 187.8 0.0 385.2

158 96.9 0.0 195.6

Manual Integrations
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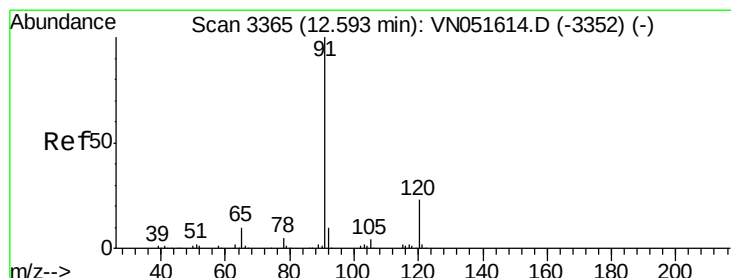
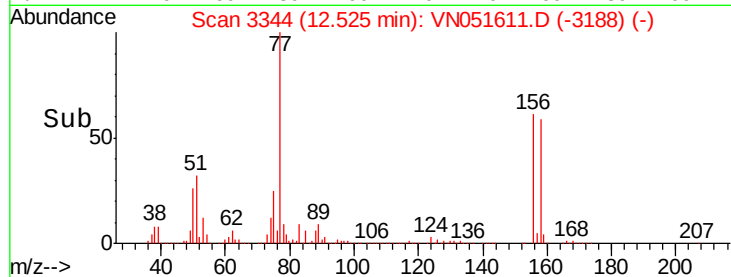
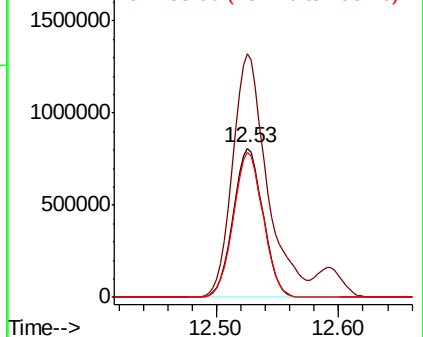
10/3/2018 5:27:37 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 164.702 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN051611.D

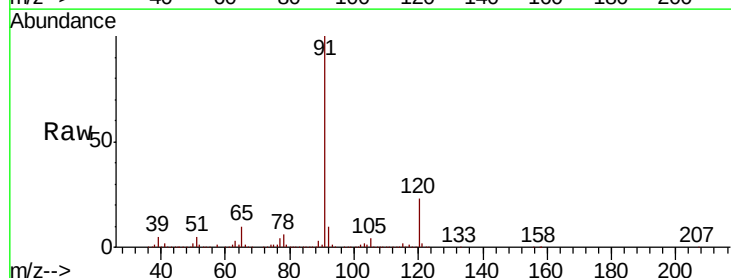
Acq: 28 Sep 2018 9:53

Tgt Ion: 91 Resp: 6620401

Ion Ratio Lower Upper

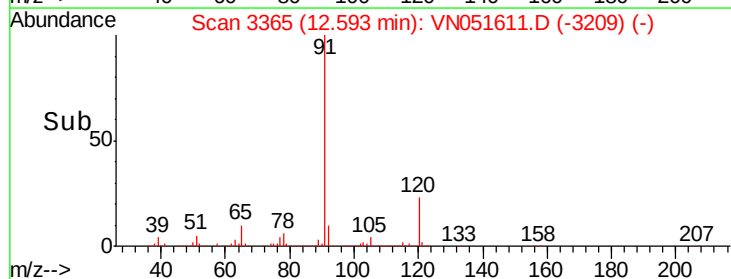
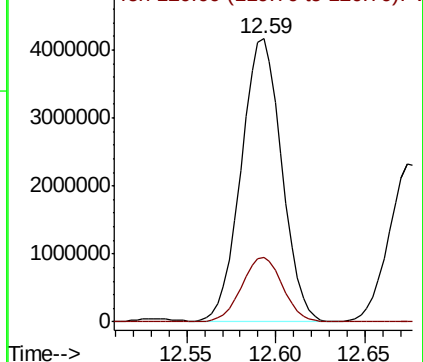
91 100

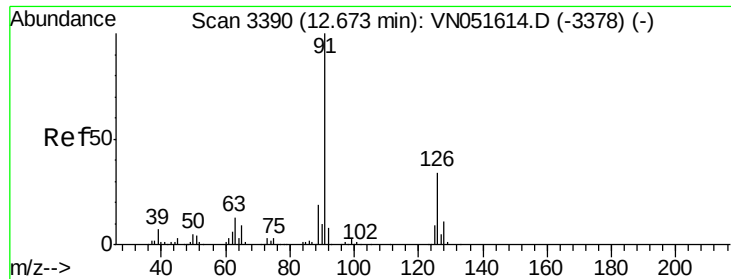
120 22.9 0.0 45.4



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 158.345 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 3800750

Ion Ratio Lower Upper

91 100

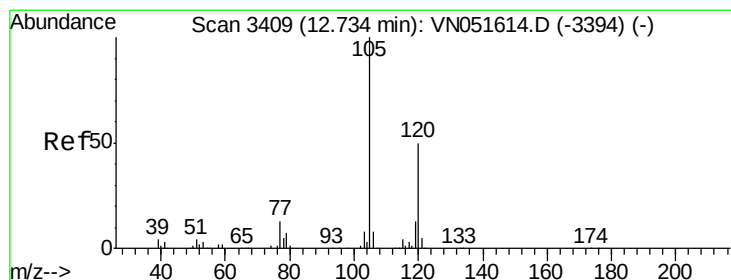
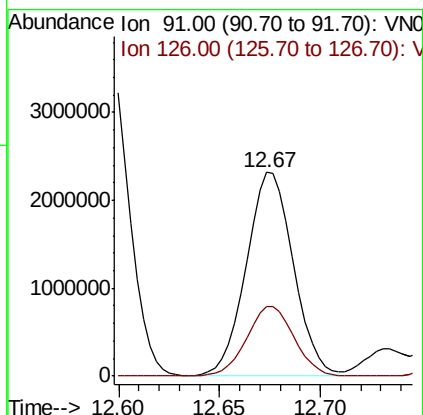
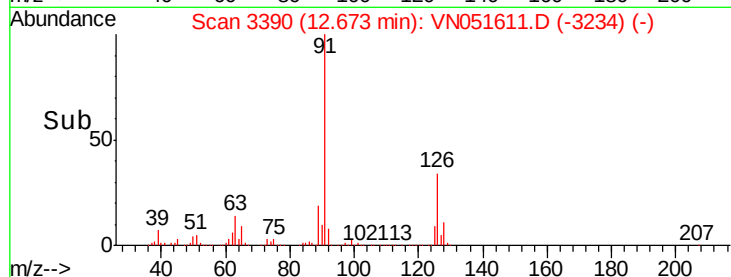
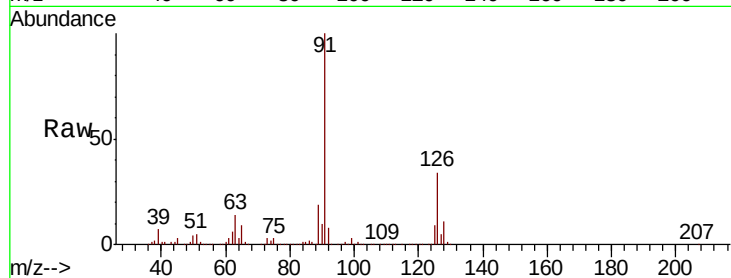
126 34.5 0.0 69.2

Manual Integrations

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10/3/2018 5:27:37 PM



#76

1,3,5-Trimethylbenzene

Concen: 161.234 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051611.D

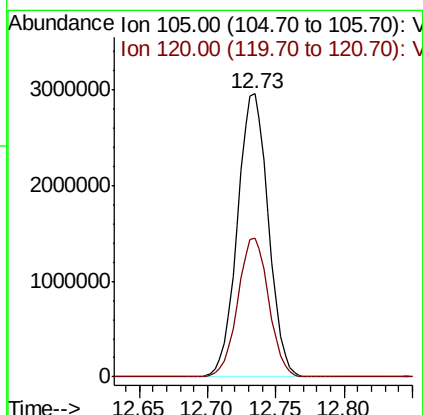
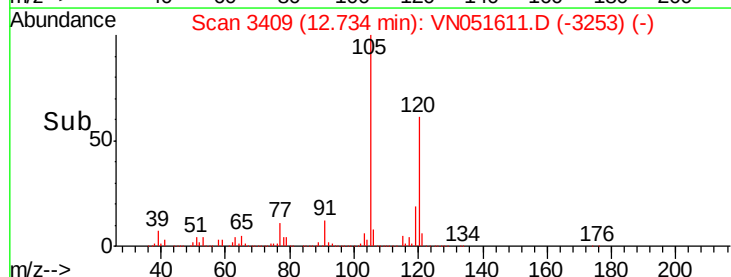
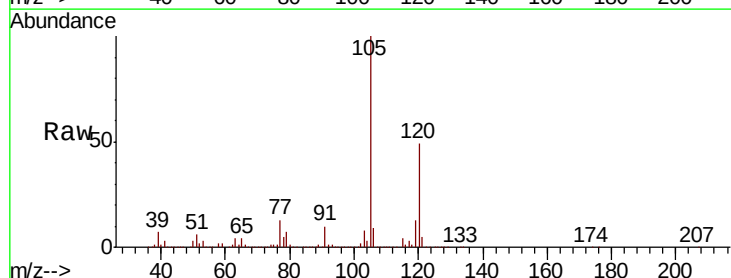
Acq: 28 Sep 2018 9:53

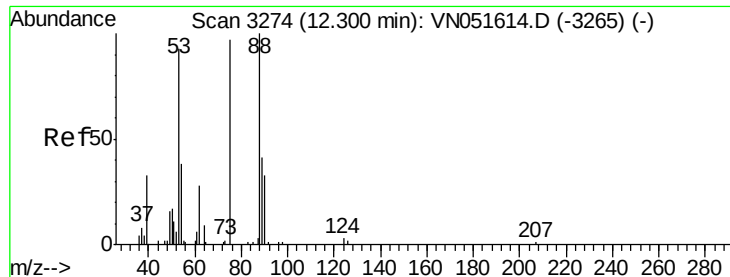
Tgt Ion: 105 Resp: 4651890

Ion Ratio Lower Upper

105 100

120 49.0 0.0 99.8





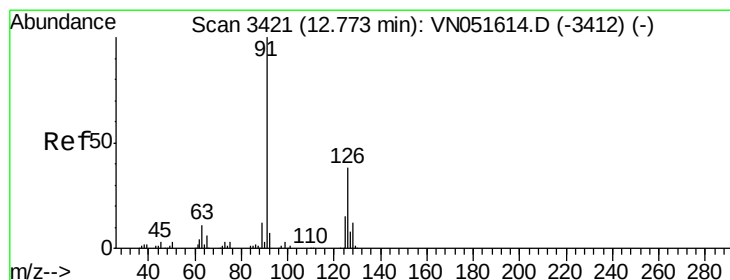
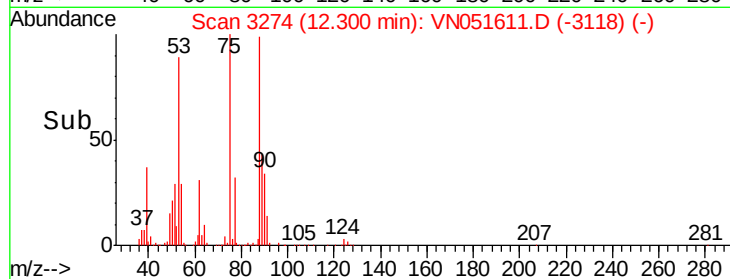
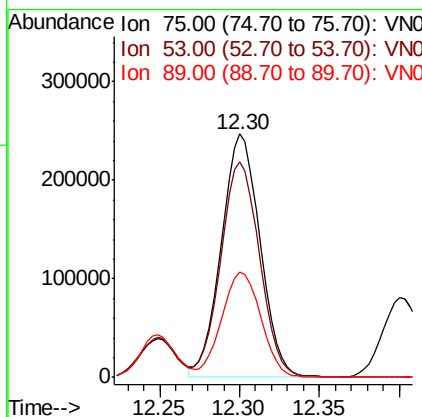
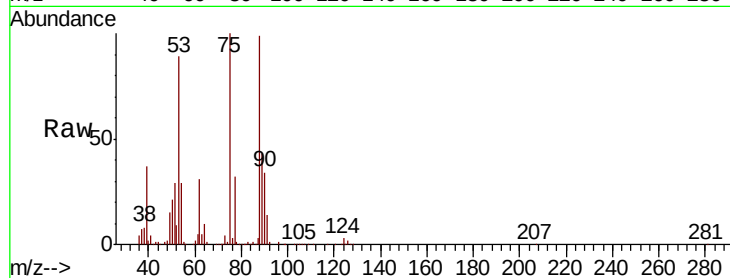
#77
t-1,4-Dichloro-2-butene
Concen: 181.143 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.6	48.1	144.4
89	43.2	22.4	67.3

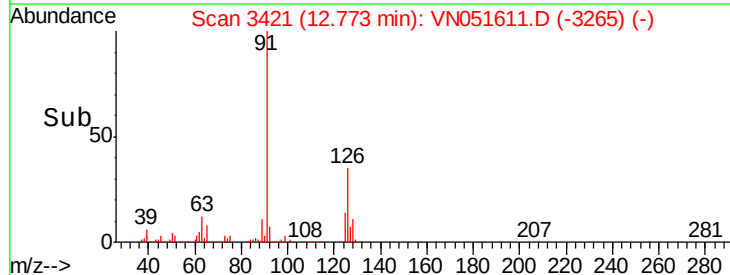
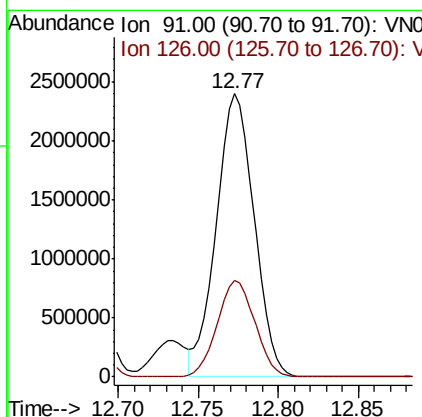
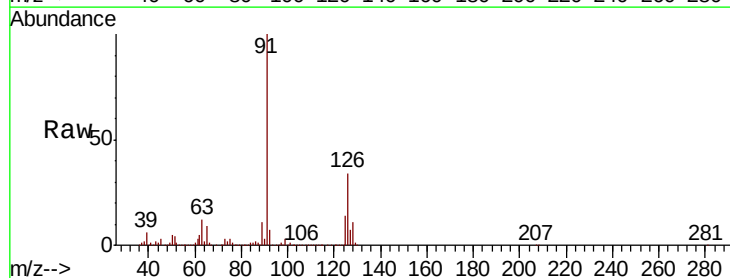
Manual Integrations
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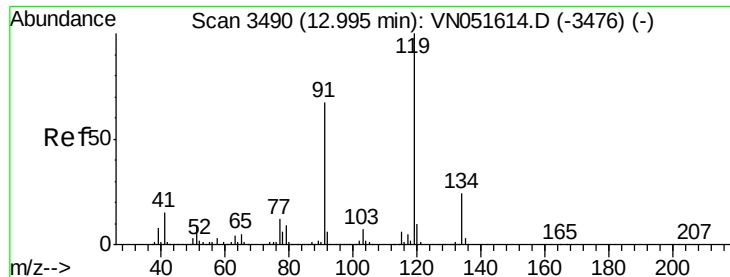
MMDadoda
10/3/2018 5:27:37 PM



#78
4-Chlorotoluene
Concen: 165.118 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.9	0.0	68.6





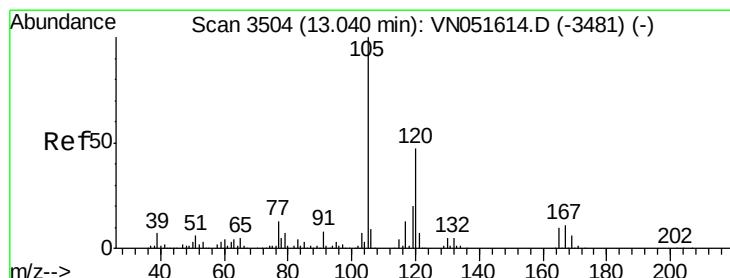
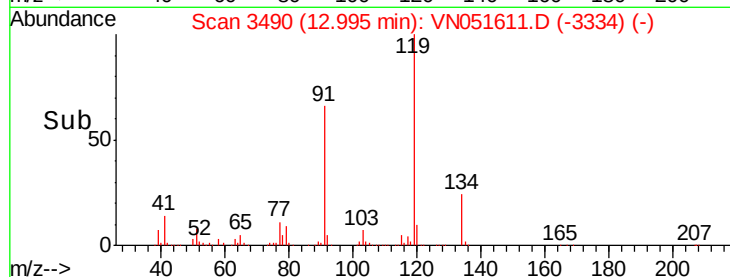
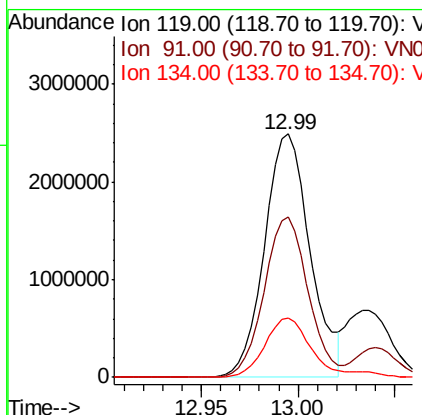
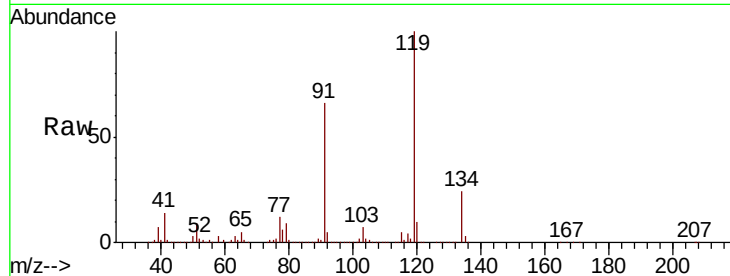
#79
tert-butylbenzene
Concen: 164.003 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.8	0.0	132.4
134	23.9	0.0	48.4

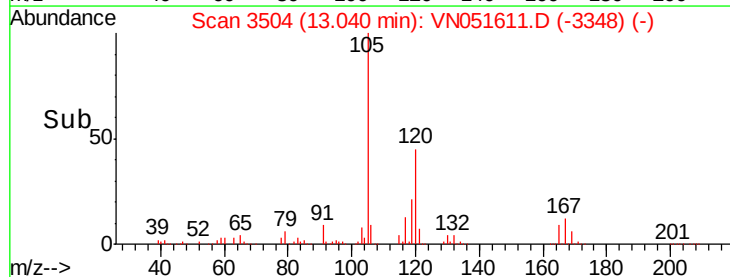
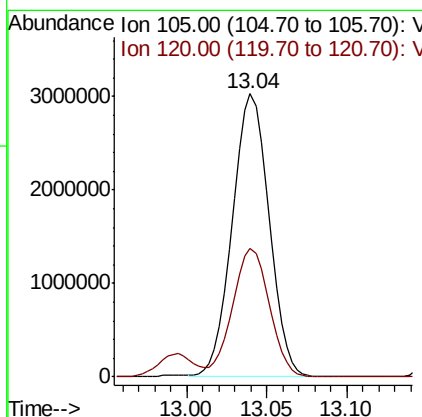
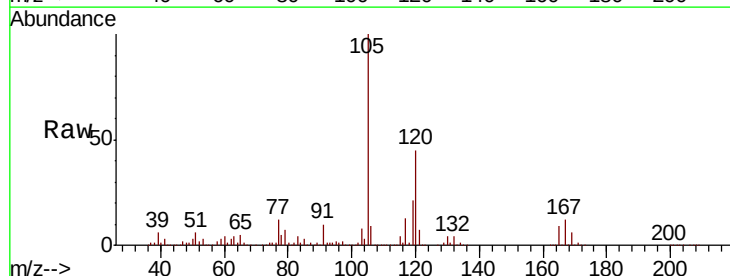
Manual Integrations
APPROVED

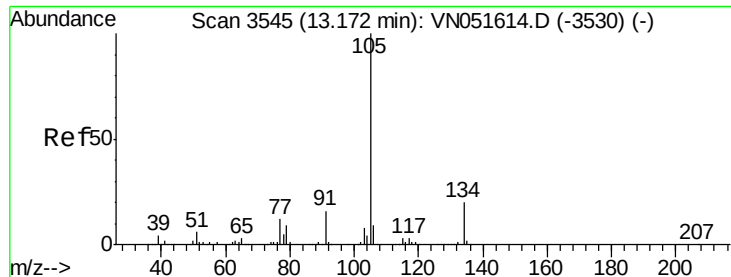
MMDadoda
10/3/2018 5:27:37 PM



#80
1,2,4-Trimethylbenzene
Concen: 164.606 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	0.0	91.6





#81

sec-Butylbenzene

Concen: 164.290 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion:105 Resp: 5672678

Ion Ratio Lower Upper

105 100

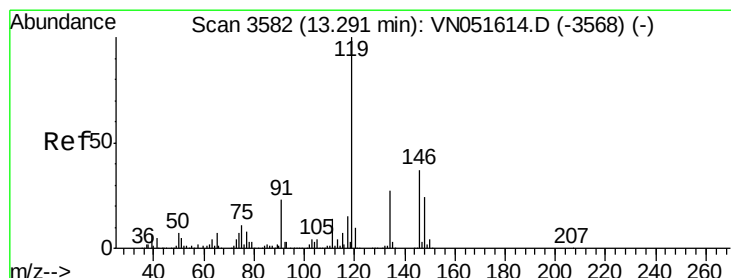
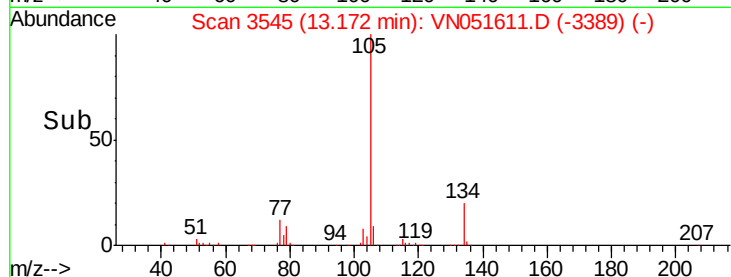
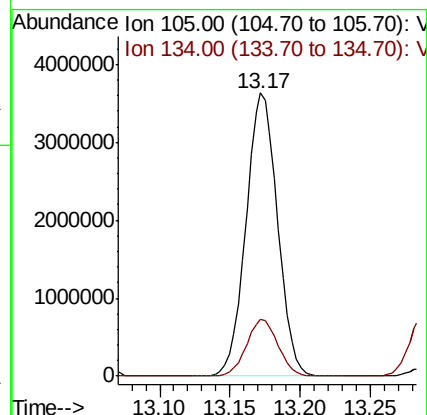
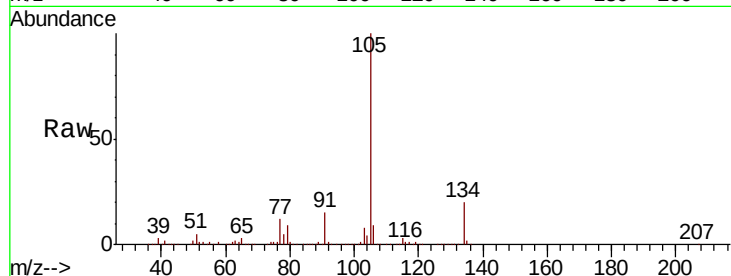
134 20.1 0.0 39.8

Manual Integrations

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#82

p-Isopropyltoluene

Concen: 169.752 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

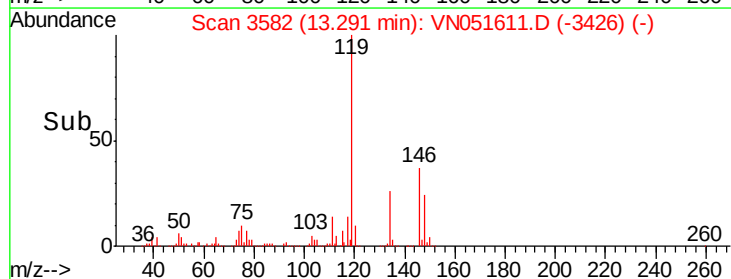
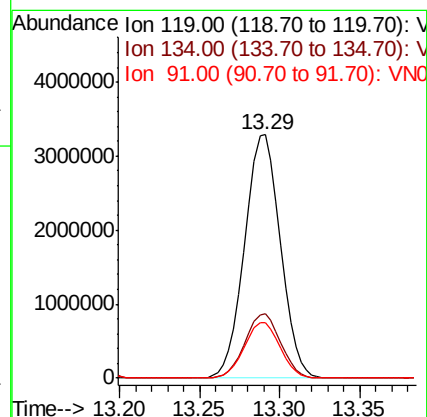
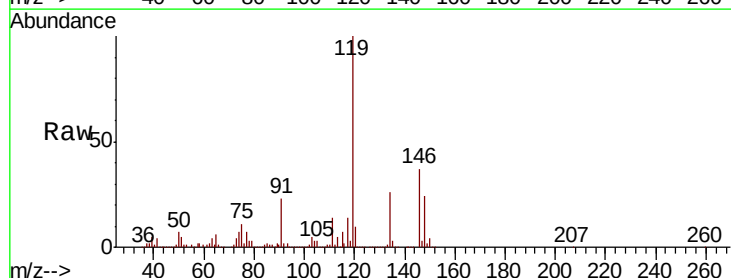
Tgt Ion:119 Resp: 5009544

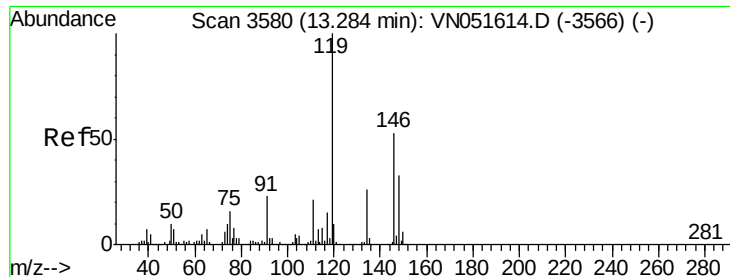
Ion Ratio Lower Upper

119 100

134 26.3 0.0 52.0

91 22.8 0.0 46.0





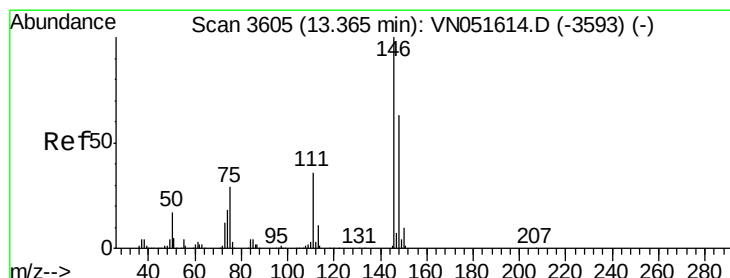
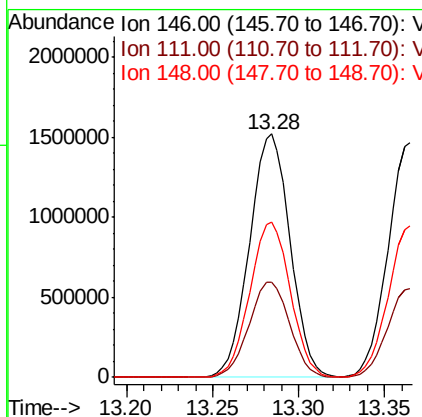
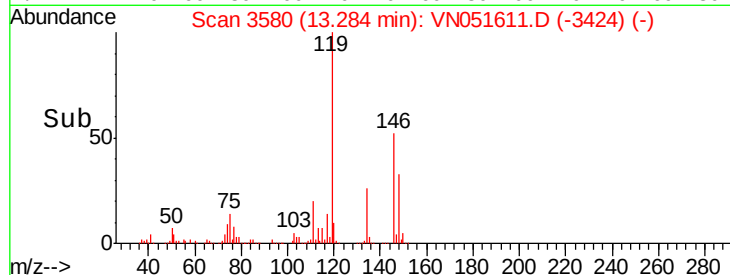
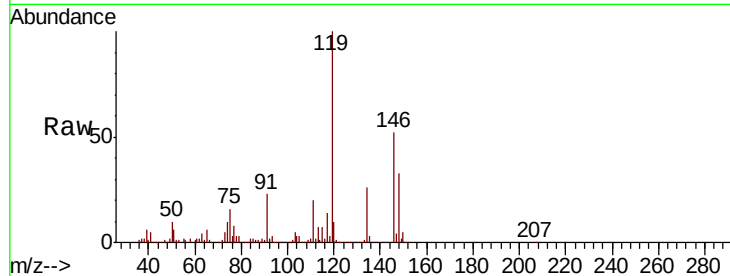
#83
 1,3-Dichlorobenzene
 Concen: 166.399 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.9	59.6
148	63.6	32.4	97.2

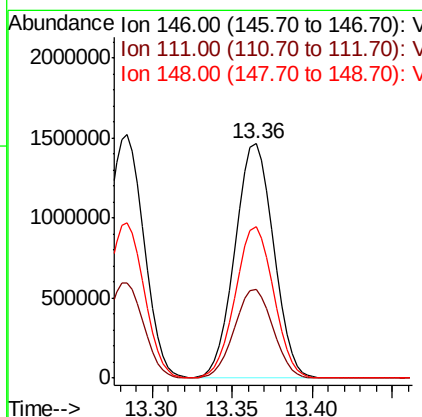
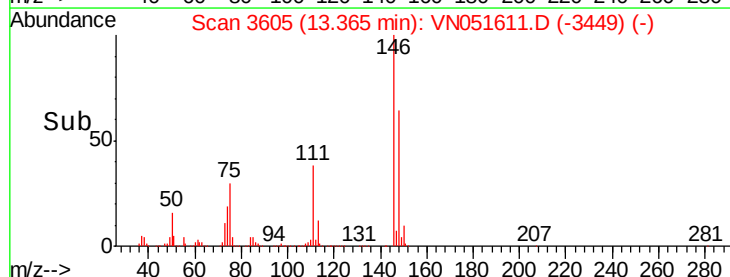
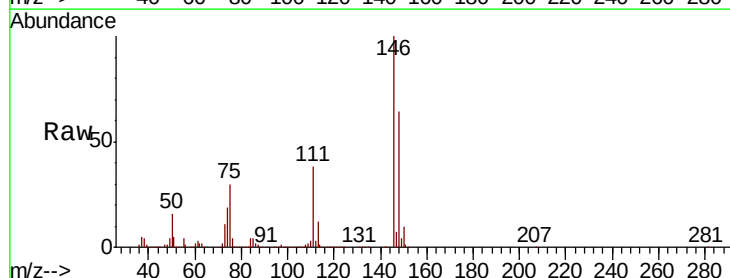
Manual Integrations
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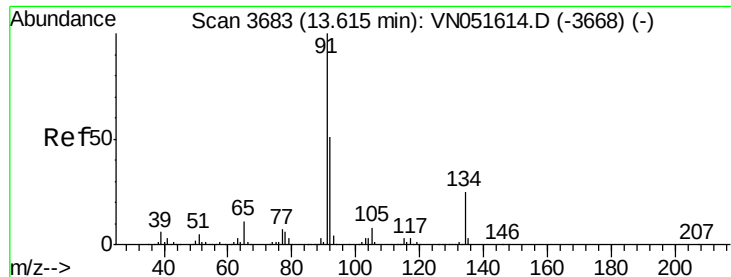
MMDadoda
 10/3/2018 5:27:37 PM



#84
 1,4-Dichlorobenzene
 Concen: 170.949 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.6	55.8
148	64.2	32.1	96.5





#85

n-Butylbenzene

Concen: 183.230 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. 0.00 min

Lab File: VN051611.D

Acq: 28 Sep 2018 9:53

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 4438364

Ion Ratio Lower Upper

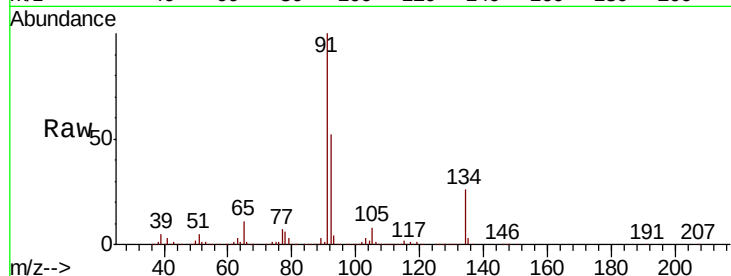
91 100

92 52.2 0.0 101.6

134 25.7 0.0 50.6

Manual Integrations
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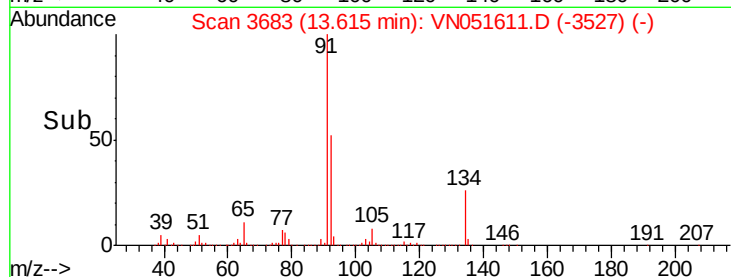


Abundance Ion 91.00 (90.70 to 91.70): VN051611.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN051611.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN051611.D (-3668) (-)

Time-->

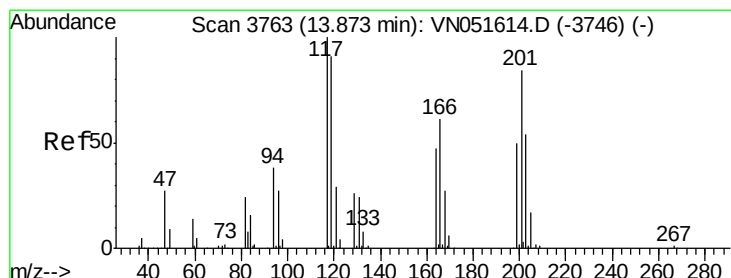


Abundance Ion 91.00 (90.70 to 91.70): VN051611.D (-3527) (-)

Ion 92.00 (91.70 to 92.70): VN051611.D (-3527) (-)

Ion 134.00 (133.70 to 134.70): VN051611.D (-3527) (-)

Time-->



#86

Hexachloroethane

Concen: 156.801 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN051611.D

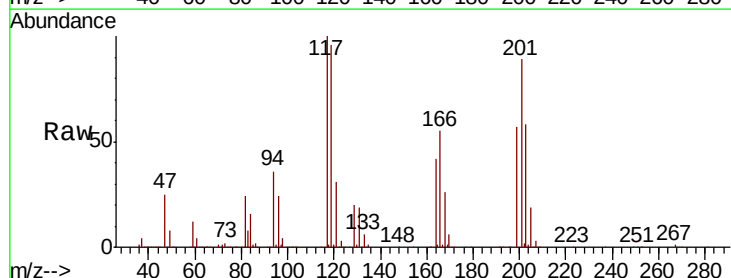
Acq: 28 Sep 2018 9:53

Tgt Ion: 117 Resp: 925522

Ion Ratio Lower Upper

117 100

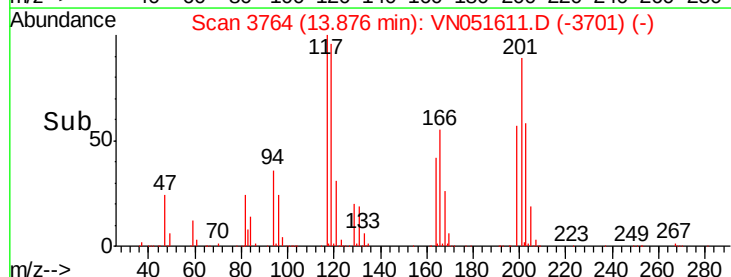
201 88.3 42.9 128.5



Abundance Ion 117.00 (116.70 to 117.70): VN051611.D (-3746) (-)

Ion 201.00 (200.70 to 201.70): VN051611.D (-3746) (-)

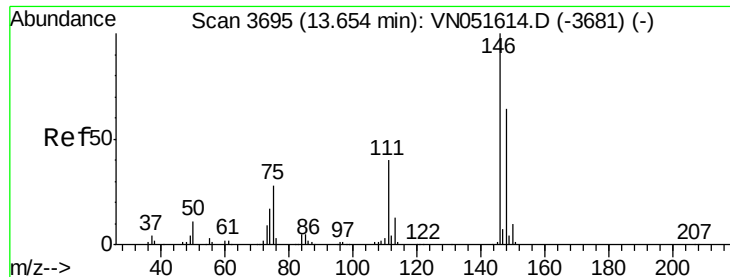
Time-->



Abundance Ion 117.00 (116.70 to 117.70): VN051611.D (-3701) (-)

Ion 201.00 (200.70 to 201.70): VN051611.D (-3701) (-)

Time-->



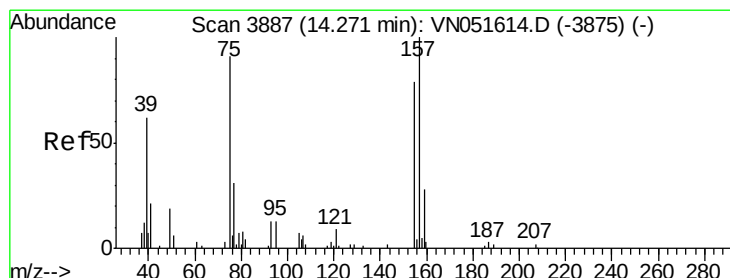
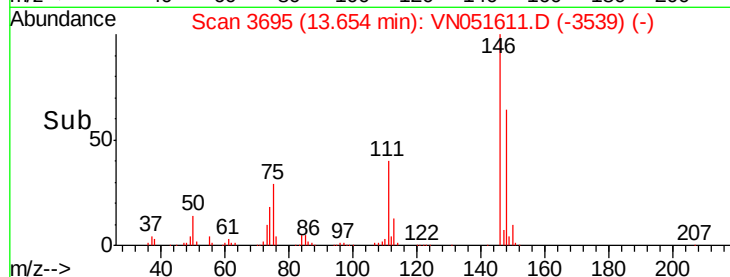
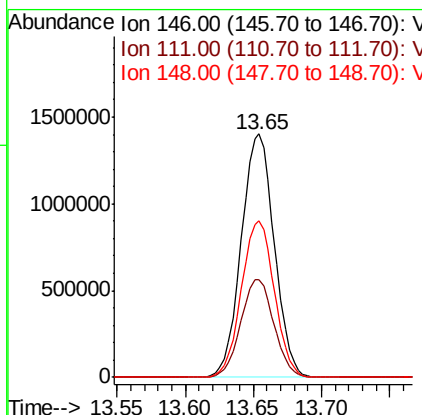
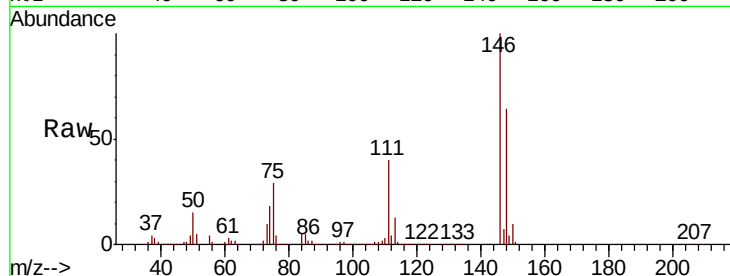
#87
 1,2-Dichlorobenzene
 Concen: 160.180 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.1	60.3
148	64.2	32.1	96.5

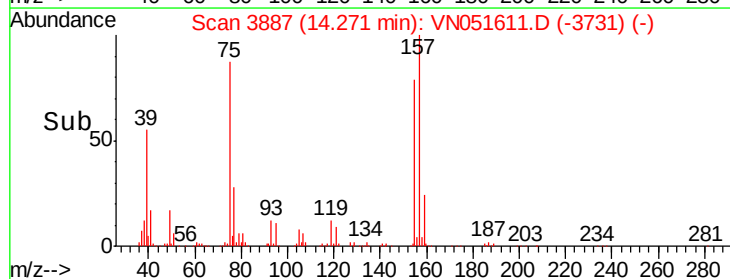
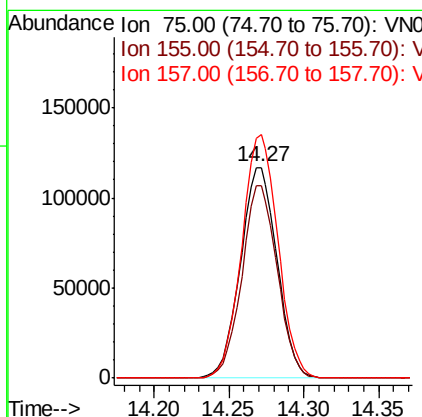
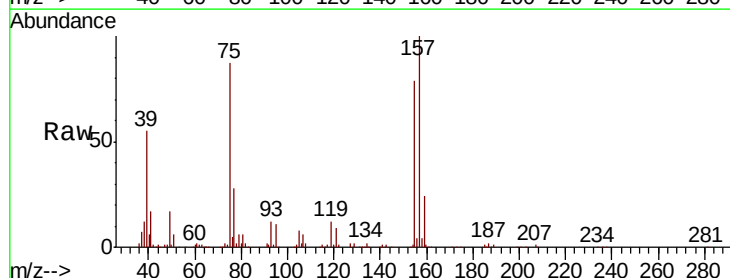
Manual Integrations
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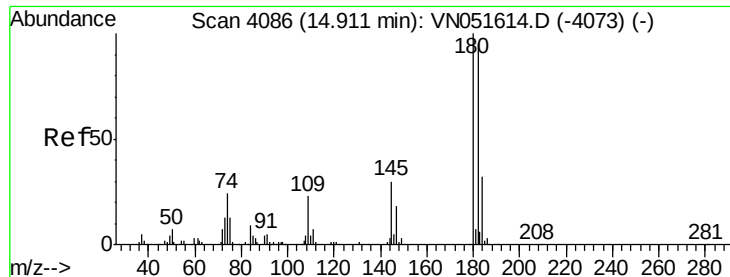
MMDadoda
 10/3/2018 5:27:37 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 163.252 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.8	67.1	100.7
157	114.4	85.8	128.6





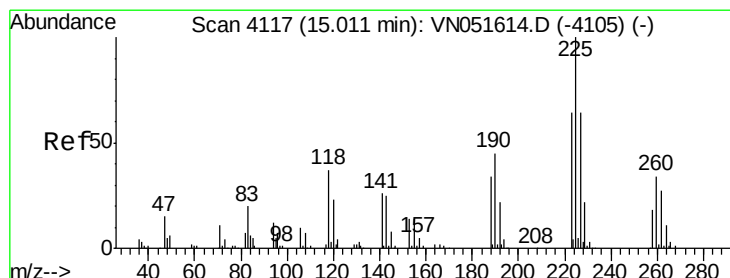
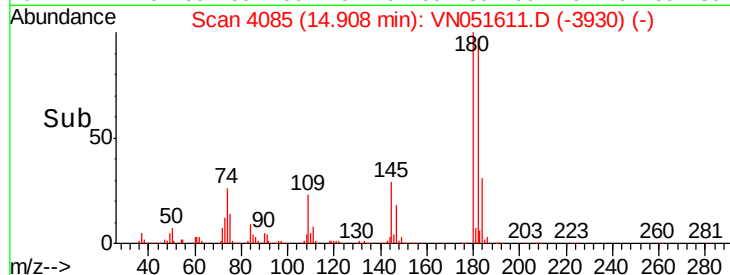
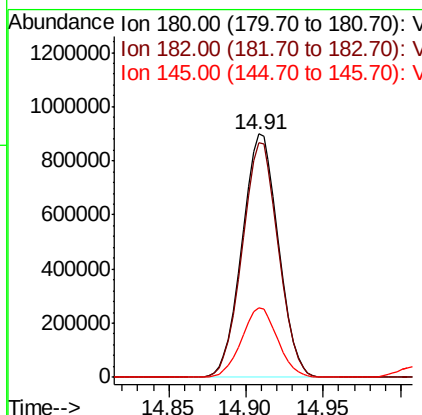
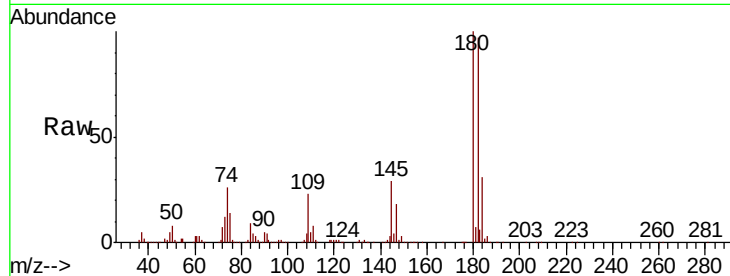
#89
 1,2,4-Trichlorobenzene
 Concen: 214.339 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.2	112.8
145	28.3	22.9	34.3

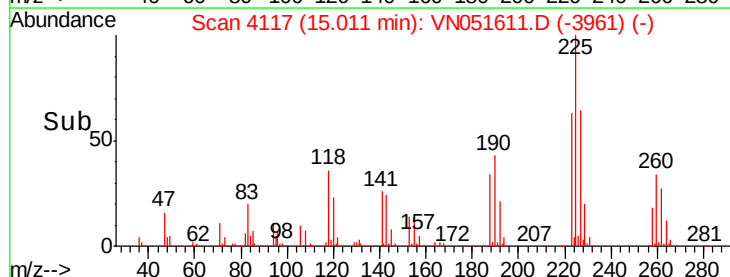
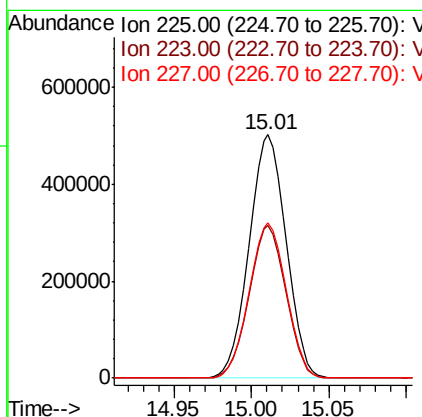
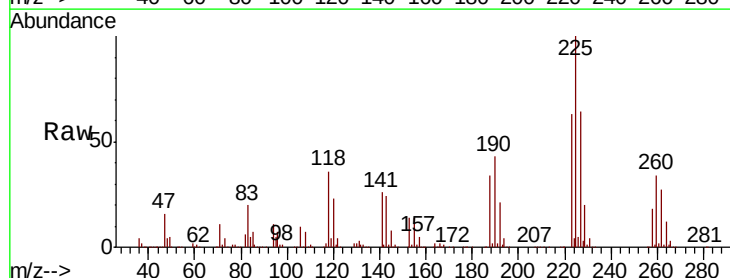
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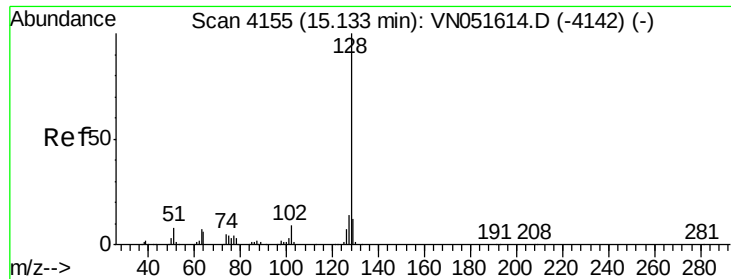
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#90
 Hexachlorobutadiene
 Concen: 149.865 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051611.D
 Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	0.0	131.0
227	64.0	0.0	129.0





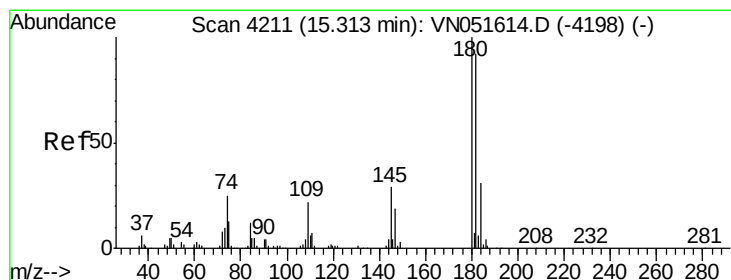
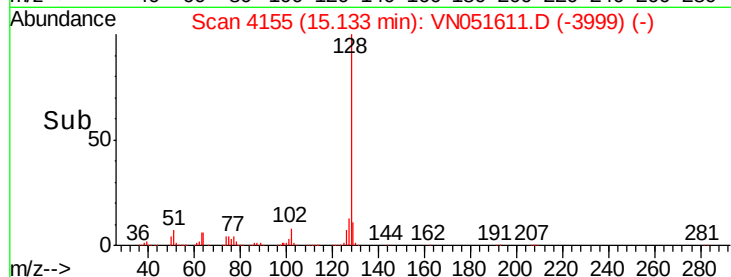
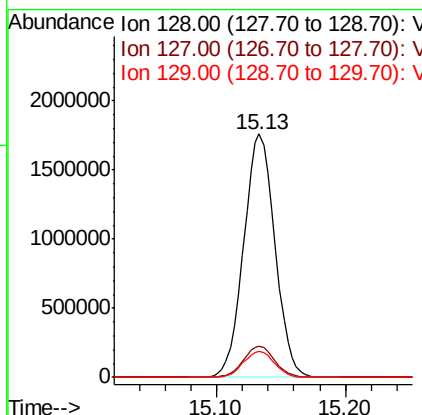
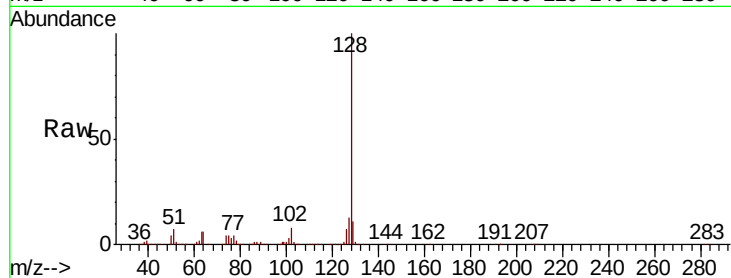
#91
Naphthalene
Concen: 230.321 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.8	16.2
129	10.7	9.1	13.7

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 199.356 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN051611.D
Acq: 28 Sep 2018 9:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	0.0	191.8
145	30.0	0.0	60.4

