

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082918\
 Data File : VN050942.D
 Acq On : 29 Aug 2018 11:35
 Operator : MD\SY
 Sample : VN0829MBSD01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/30/2018 11:07:39 AM

Quant Time: Aug 29 14:54:09 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	592961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	866210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	793911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	383099	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	360610	50.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.04%	
35) Dibromofluoromethane	7.59	113	338892	49.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.36%	
50) Toluene-d8	10.09	98	1267943	49.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.42%	
62) 4-Bromofluorobenzene	12.40	95	416365	48.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.85	85	152935	19.273	ug/l	99
3) Chloromethane	2.06	50	178071	18.193	ug/l	97
4) Vinyl Chloride	2.18	62	174848	18.858	ug/l	98
5) Bromomethane	2.56	94	98456	18.000	ug/l	96
6) Chloroethane	2.70	64	102740	19.178	ug/l	99
7) Trichlorofluoromethane	3.01	101	232993	19.625	ug/l	100
8) Diethyl Ether	3.41	74	82508	20.438	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	141909	19.132	ug/l	99
10) Methyl Iodide	3.95	142	113359	21.547	ug/l	99
11) Tert butyl alcohol	4.80	59	57648	126.821	ug/l #	86
12) 1,1-Dichloroethene	3.73	96	127598	19.159	ug/l	97
13) Acrolein	3.62	56	19051	84.542	ug/l	99
14) Allyl chloride	4.33	41	198230	19.102	ug/l	98
15) Acrylonitrile	4.99	53	261284	113.104	ug/l	98
16) Acetone	3.82	43	180066	102.351	ug/l	97
17) Carbon Disulfide	4.05	76	367824	16.475	ug/l	99
18) Methyl Acetate	4.33	43	164187	24.358	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	361530	21.582	ug/l	99
20) Methylene Chloride	4.55	84	152648	18.973	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	135716	18.841	ug/l	97
22) Diisopropyl ether	5.96	45	436360	21.099	ug/l	100
23) Vinyl Acetate	5.90	43	1349393	101.315	ug/l	100
24) 1,1-Dichloroethane	5.85	63	257223	19.373	ug/l	99
25) 2-Butanone	6.84	43	289295	100.564	ug/l	100
26) 2,2-Dichloropropane	6.83	77	188959	17.711	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	152603	19.651	ug/l	99
28) Bromochloromethane	7.20	49	96385	17.084	ug/l	98
29) Tetrahydrofuran	7.22	42	196800	119.319	ug/l	100
30) Chloroform	7.37	83	258092	19.630	ug/l	98
31) Cyclohexane	7.66	56	224985	18.934	ug/l	95
32) 1,1,1-Trichloroethane	7.57	97	220644	19.538	ug/l	99
36) 1,1-Dichloropropene	7.80	75	194375	19.016	ug/l	100
37) Ethyl Acetate	6.94	43	124389	21.185	ug/l	100
38) Carbon Tetrachloride	7.78	117	192451	18.626	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	199682	18.057	ug/l	100
40) Benzene	8.04	78	603619	19.583	ug/l	99
41) Methacrylonitrile	7.18	41	70394	22.153	ug/l	96
42) 1,2-Dichloroethane	8.13	62	180677	19.606	ug/l	99
43) Isopropyl Acetate	8.17	43	229236	22.706	ug/l	98
44) Trichloroethene	8.84	130	155877	19.175	ug/l	99
45) 1,2-Dichloropropane	9.12	63	159631	19.705	ug/l	99
46) Dibromomethane	9.21	93	95094	19.978	ug/l	100
47) Bromodichloromethane	9.41	83	195241	19.583	ug/l	97
48) Methyl methacrylate	9.20	41	107692	20.931	ug/l	99
49) 1,4-Dioxane	9.20	88	31985	456.021	ug/l	95
51) 4-Methyl-2-Pentanone	9.99	43	654672	108.667	ug/l	99
52) Toluene	10.16	92	368497	20.181	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	192108	19.359	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	218396	19.219	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	136390	20.125	ug/l	99
56) Ethyl methacrylate	10.43	69	164718	20.156	ug/l	99
57) 1,3-Dichloropropane	10.71	76	230142	20.574	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	333502	94.676	ug/l	100
59) 2-Hexanone	10.75	43	424408	105.820	ug/l	100
60) Dibromochloromethane	10.90	129	149922	19.758	ug/l	100
61) 1,2-Dibromoethane	11.01	107	136040	20.759	ug/l	99
64) Tetrachloroethene	10.63	164	144227	19.126	ug/l	97
65) Chlorobenzene	11.44	112	402456	19.394	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	147210	19.389	ug/l	99
67) Ethyl Benzene	11.51	91	668104	19.804	ug/l	100
68) m/p-Xylenes	11.62	106	519840	40.596	ug/l	100
69) o-Xylene	11.95	106	252320	20.496	ug/l	100
70) Styrene	11.97	104	391893	18.875	ug/l	99
71) Bromoform	12.13	173	107040	20.501	ug/l #	100
73) Isopropylbenzene	12.25	105	665241	20.971	ug/l	100
74) N-amyl acetate	12.07	43	175356	22.000	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	180129	22.932	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	150039m	22.361	ug/l	
77) Bromobenzene	12.53	156	171997	19.950	ug/l	99
78) n-propylbenzene	12.59	91	735961	20.768	ug/l	100
79) 2-Chlorotoluene	12.68	91	451203	20.441	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	553933	21.641	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	40685	20.498	ug/l	97
82) 4-Chlorotoluene	12.77	91	437000	20.054	ug/l	100
83) tert-Butylbenzene	12.99	119	472935	21.335	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	549088	21.326	ug/l	98
85) sec-Butylbenzene	13.17	105	612086	21.072	ug/l	100
86) p-Isopropyltoluene	13.29	119	532537	21.516	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	283732	19.394	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	274804	19.085	ug/l	100
89) n-Butylbenzene	13.62	91	401728	20.294	ug/l	100
90) Hexachloroethane	13.88	117	94405	20.124	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	282879	20.041	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	25529	22.409	ug/l	98

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MSVOA_N
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VN0829MBS01

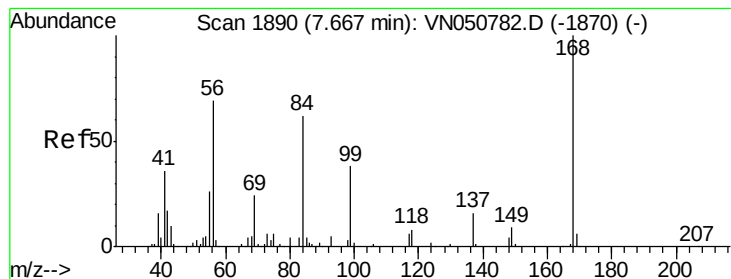
Manual Integrations
APPROVED

MMDadoda
8/30/2018 11:07:39 AM

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	120579	19.163	ug/l	98
94) Hexachlorobutadiene	15.01	225	89346	20.698	ug/l	99
95) Naphthalene	15.13	128	266028	20.903	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	125851	20.375	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBSD01

Tot Ion:168 Resp: 592961

Ion Ratio Lower Upper

168 100

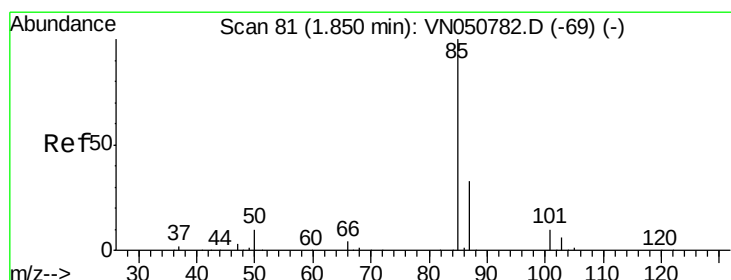
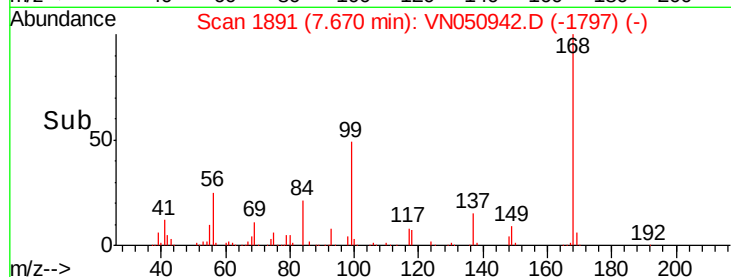
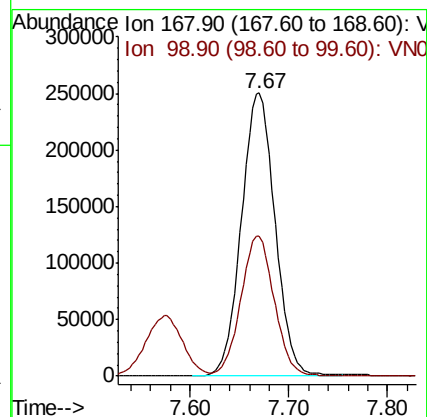
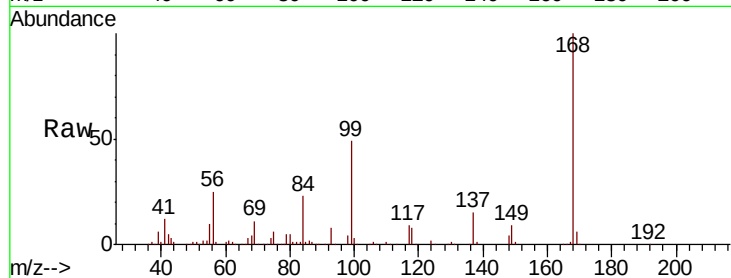
99 49.1 39.6 59.4

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 19.273 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050942.D

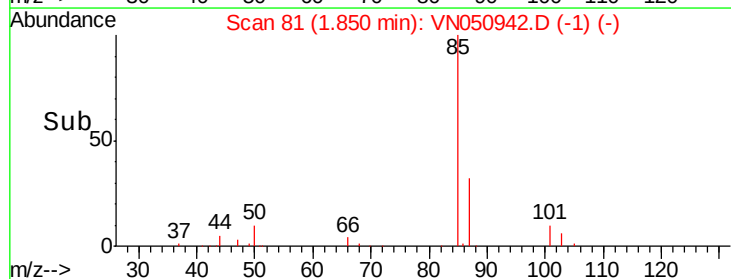
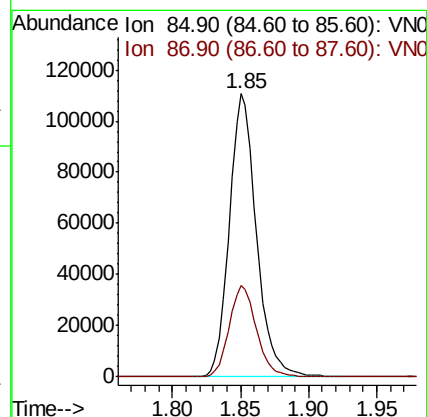
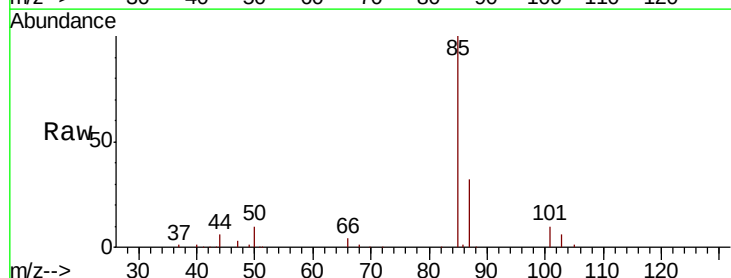
Acq: 29 Aug 2018 11:35

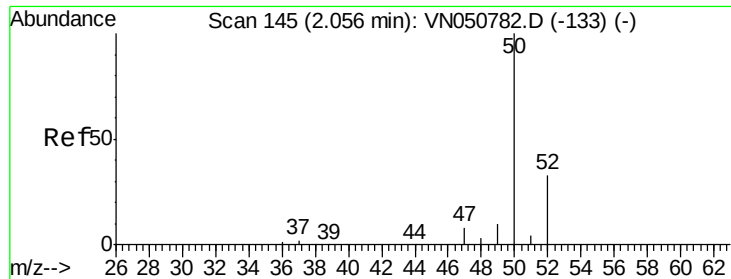
Tgt Ion: 85 Resp: 152935

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.1





#3

Chloromethane

Concen: 18.193 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBS01

Tot Ion: 50 Resp: 178071

Ion Ratio Lower Upper

50 100

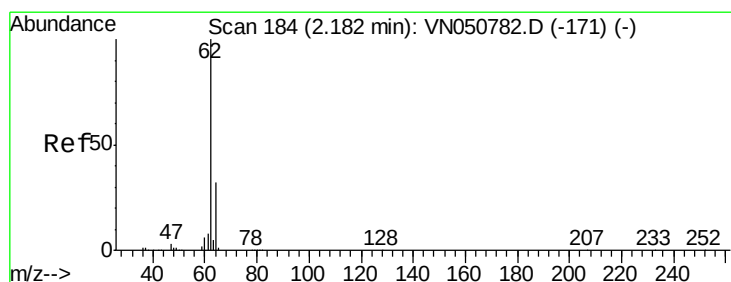
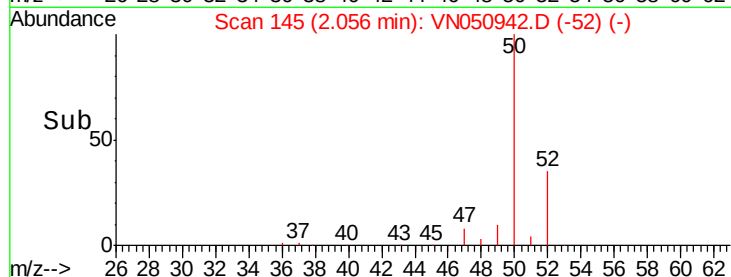
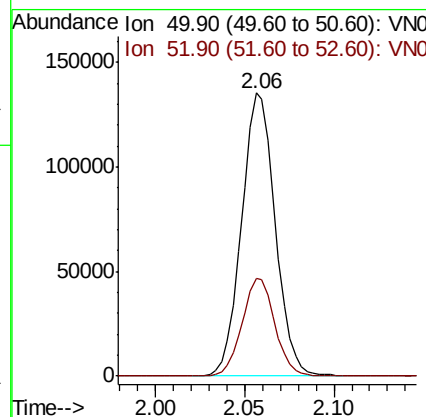
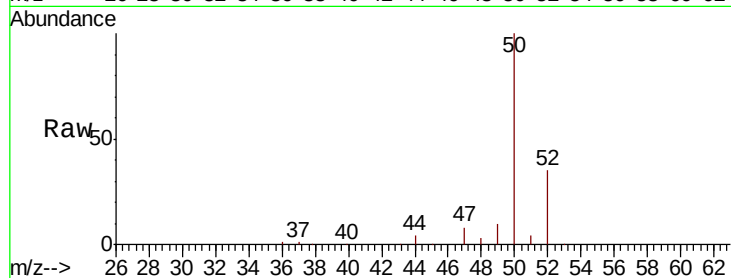
52 34.5 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 18.858 ug/l

RT: 2.18 min Scan# 184

Delta R.T. -0.00 min

Lab File: VN050942.D

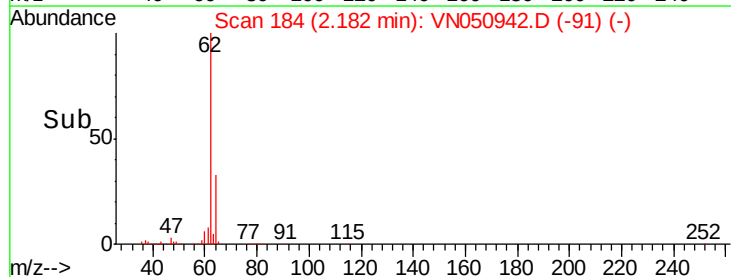
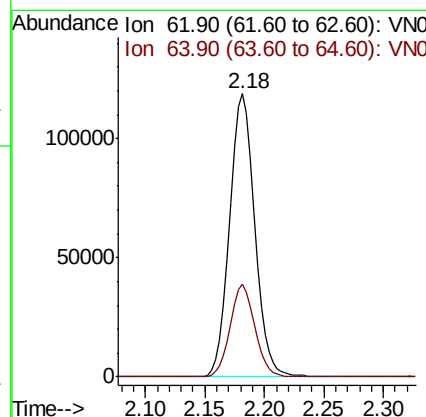
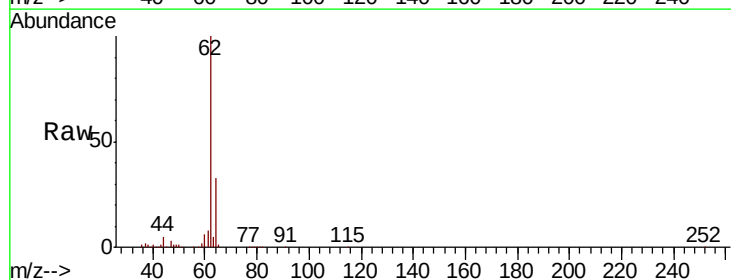
Acq: 29 Aug 2018 11:35

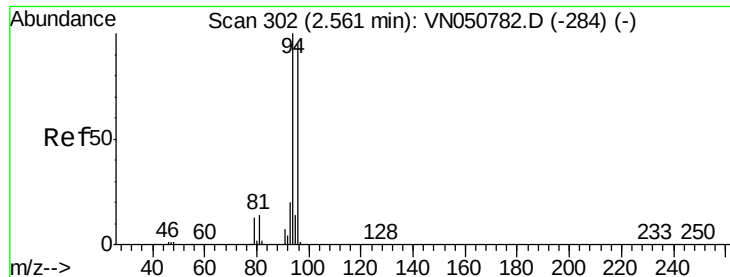
Tgt Ion: 62 Resp: 174848

Ion Ratio Lower Upper

62 100

64 32.7 25.4 38.2





#5

Bromomethane

Concen: 18.000 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBSD01

Tot Ion: 94 Resp: 98456

Ion Ratio Lower Upper

94 100

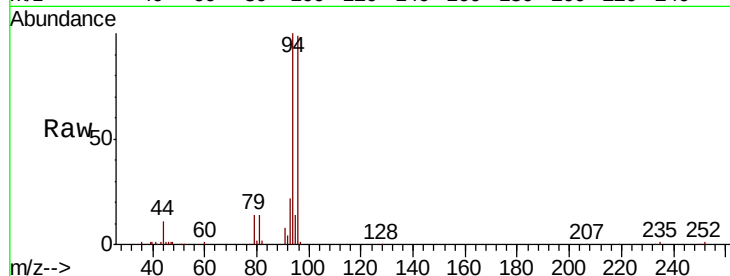
96 99.5 76.2 114.2

Manual Integrations

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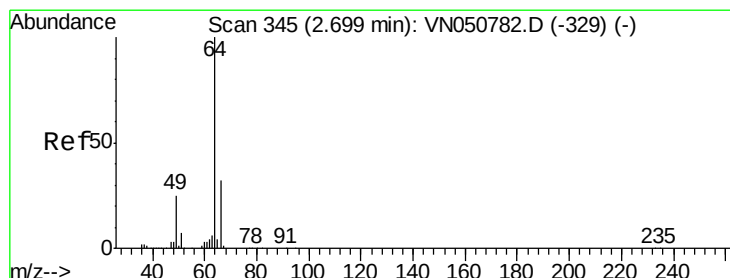
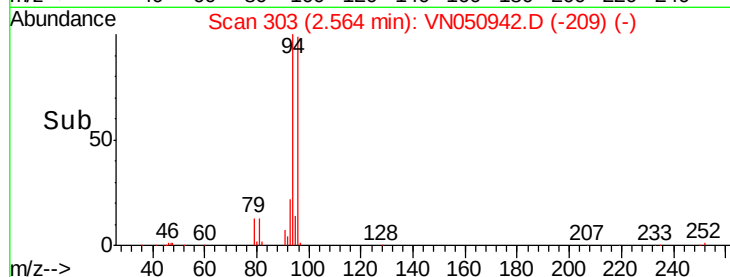
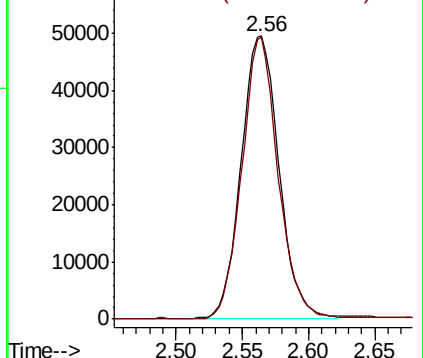
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.178 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN050942.D

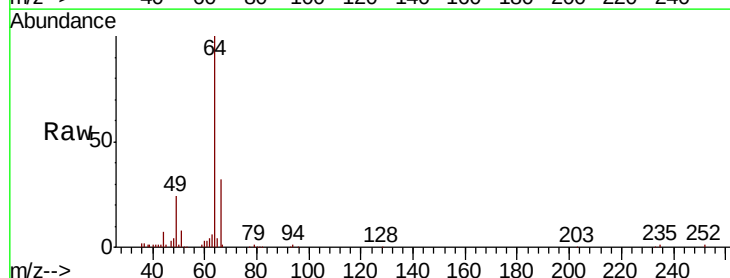
Acq: 29 Aug 2018 11:35

Tgt Ion: 64 Resp: 102740

Ion Ratio Lower Upper

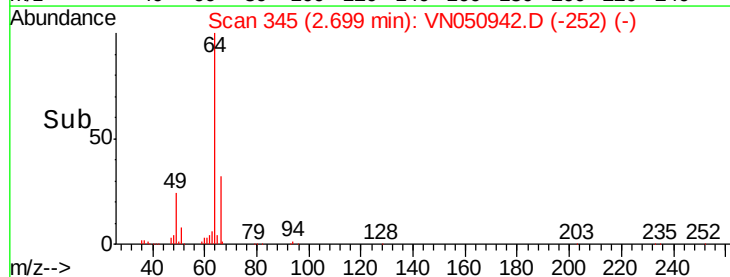
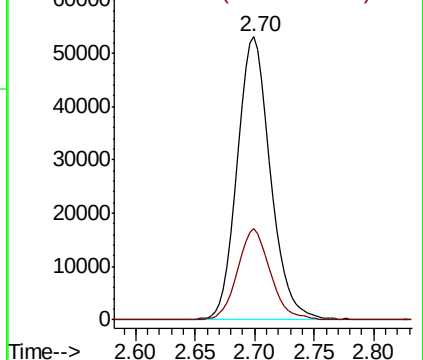
64 100

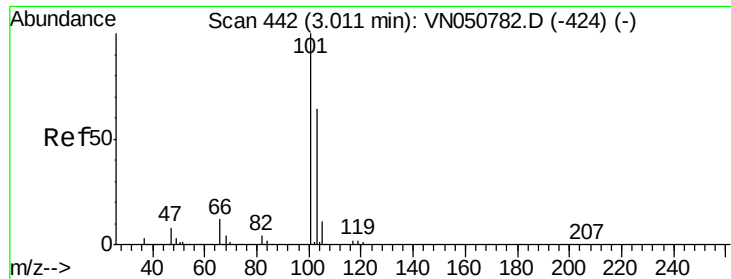
66 32.2 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

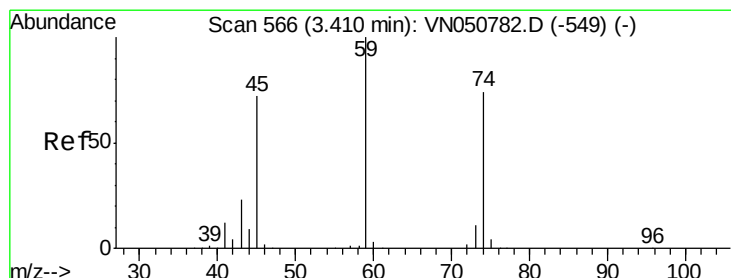
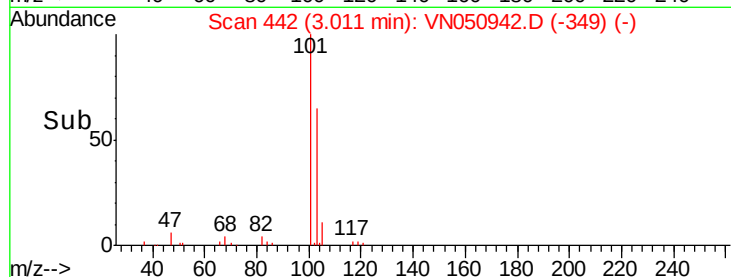
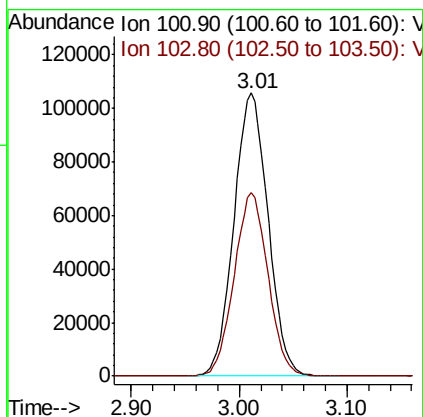
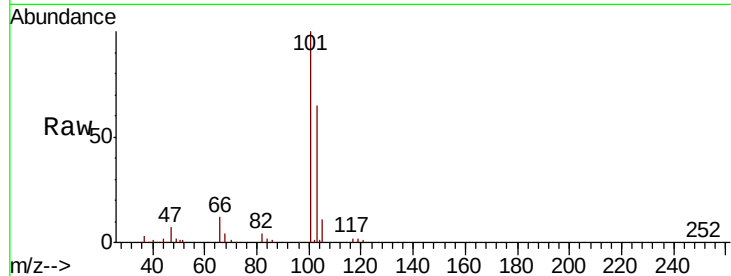
Trichlorofluoromethane
Concen: 19.625 ug/l
RT: 3.01 min Scan# 442
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		232993		
103	64.8	51.6	77.4		

Manual Integrations
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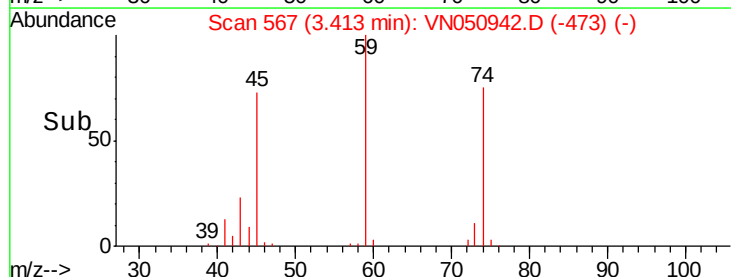
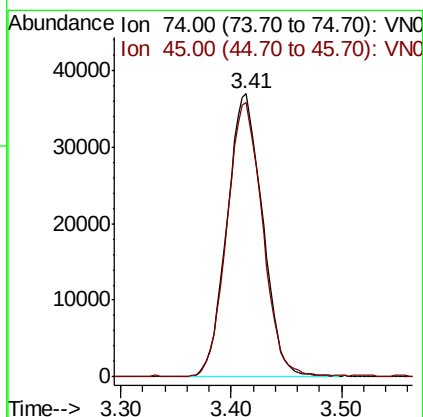
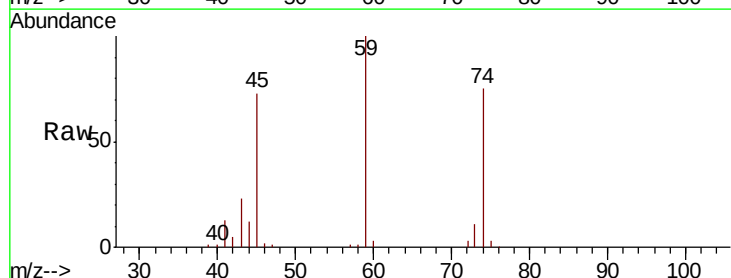
MMDadoda
8/30/2018 11:07:39 AM

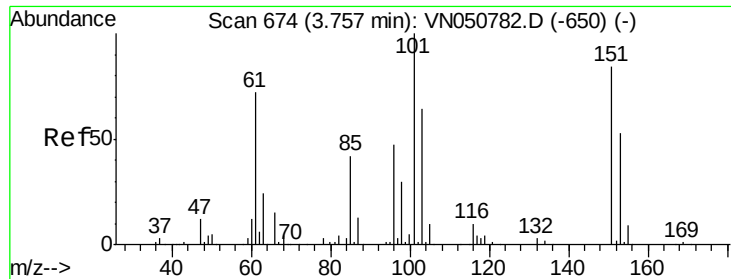


#8

Diethyl Ether
Concen: 20.438 ug/l
RT: 3.41 min Scan# 567
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		82508		
45	97.1	48.2	144.6		





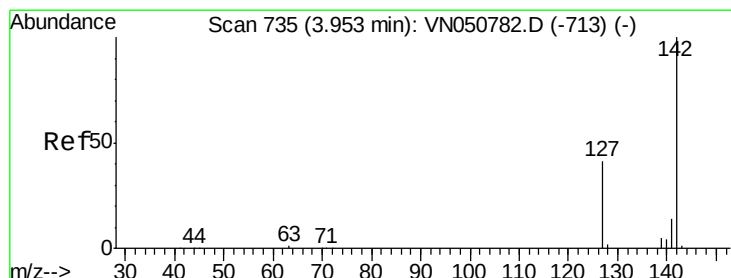
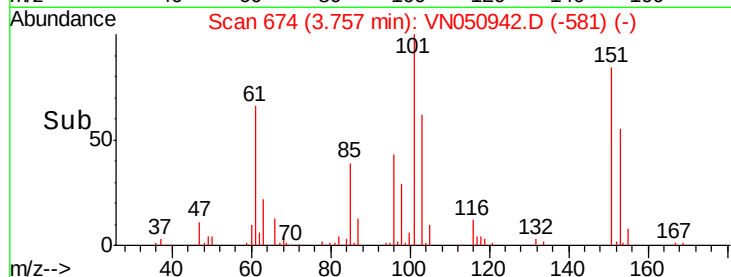
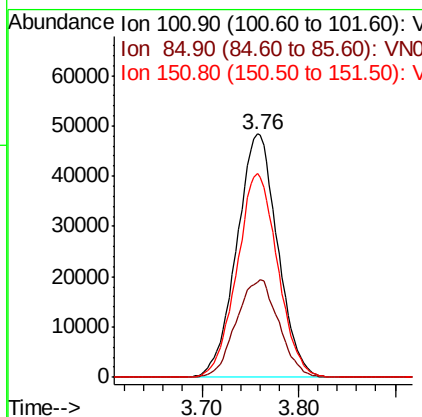
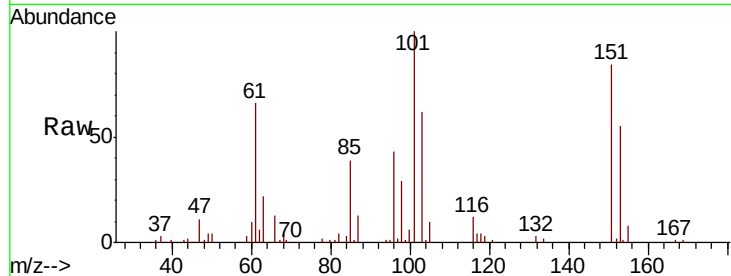
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.132 ug/l
 RT: 3.76 min Scan# 674
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.6	33.7	50.5
151	83.4	67.4	101.2

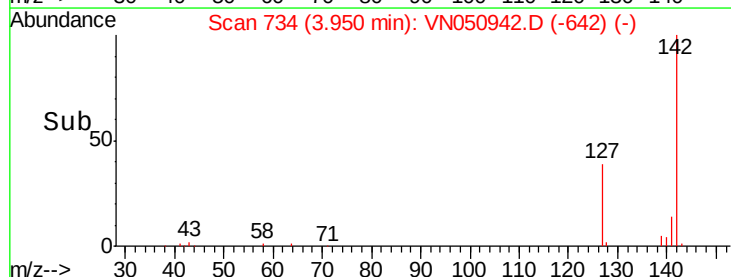
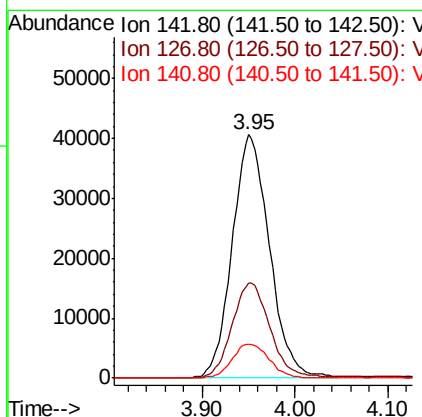
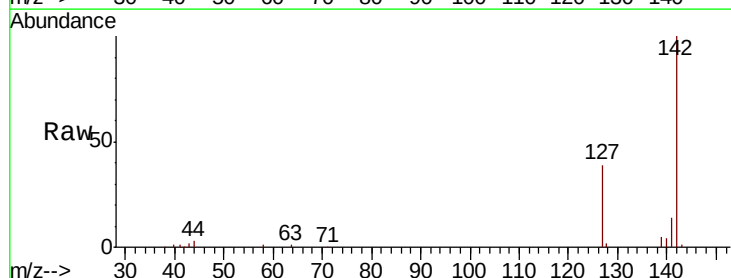
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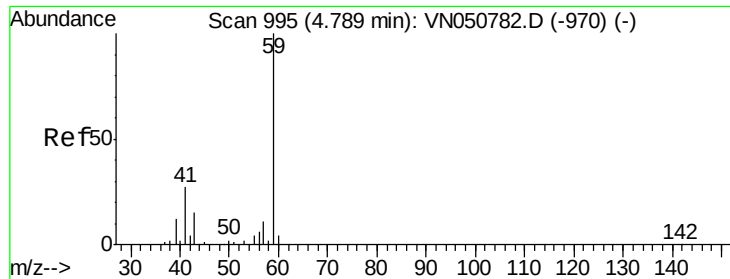
MMDadoda
 8/30/2018 11:07:39 AM



#10
 Methyl Iodide
 Concen: 21.547 ug/l
 RT: 3.95 min Scan# 734
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
142	100		
127	40.0	31.7	47.5
141	14.0	11.4	17.0





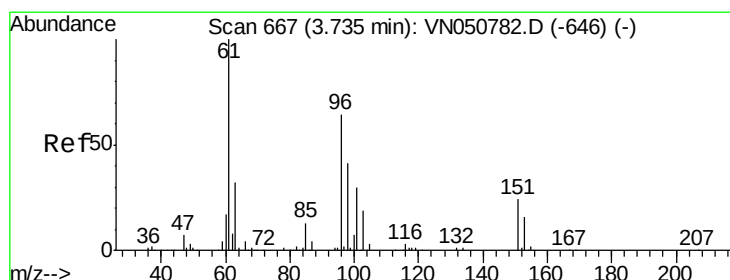
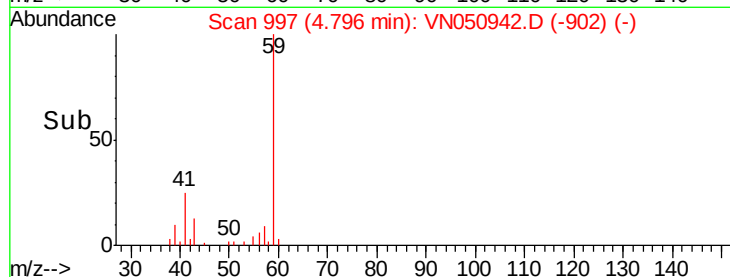
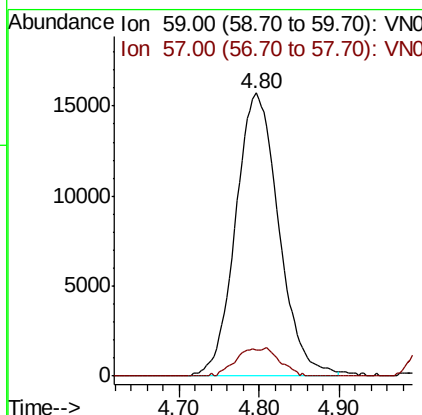
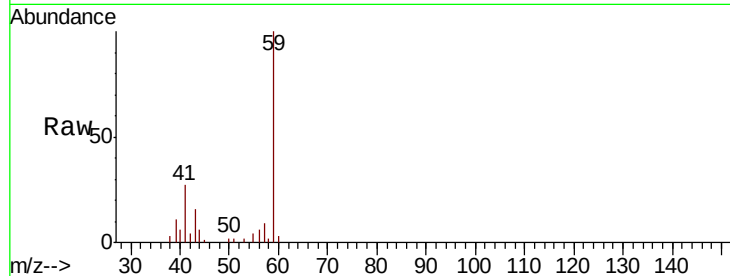
#11
Tert butyl alcohol
Concen: 126.821 ug/l
RT: 4.80 min Scan# 997
Delta R.T. 0.01 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampled :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.2	8.3	12.5#

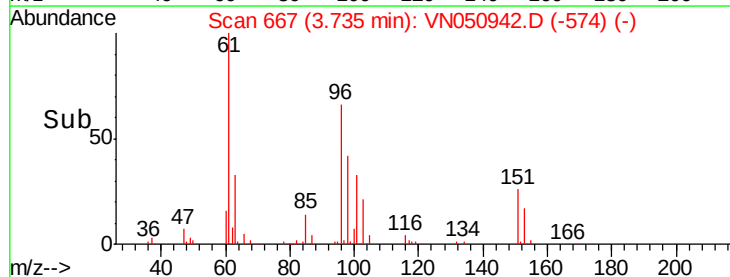
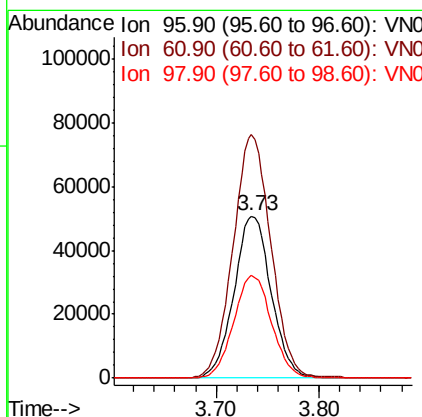
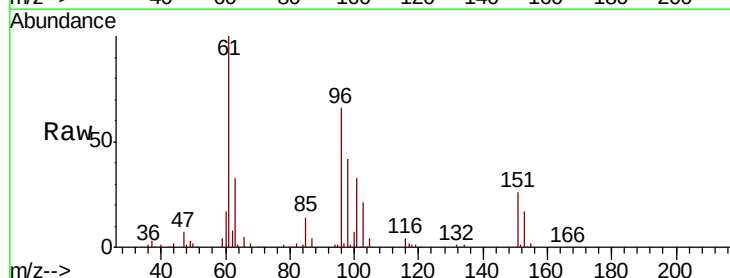
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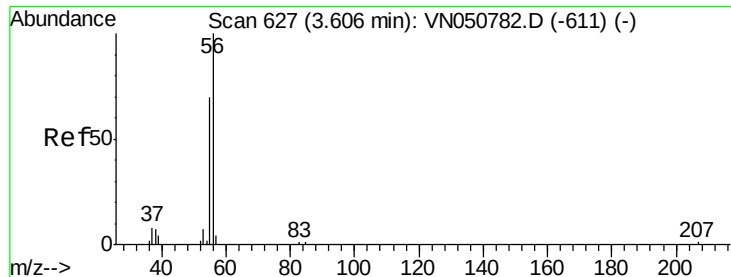
MMDadoda
8/30/2018 11:07:39 AM



#12
1,1-Dichloroethene
Concen: 19.159 ug/l
RT: 3.73 min Scan# 667
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.4	124.9	187.3
98	63.2	51.1	76.7





#13

Acrolein

Concen: 84.542 ug/l

RT: 3.62 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBSD01

Tot Ion: 56 Resp: 19051

Ion Ratio Lower Upper

56 100

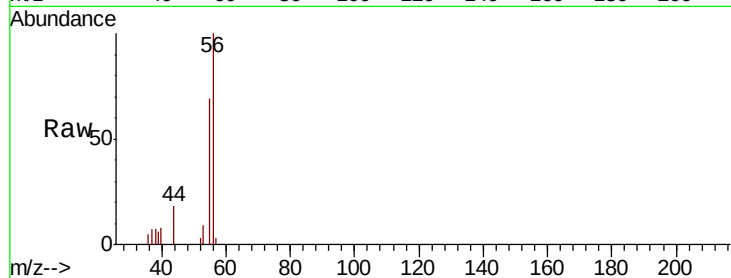
55 71.4 57.7 86.5

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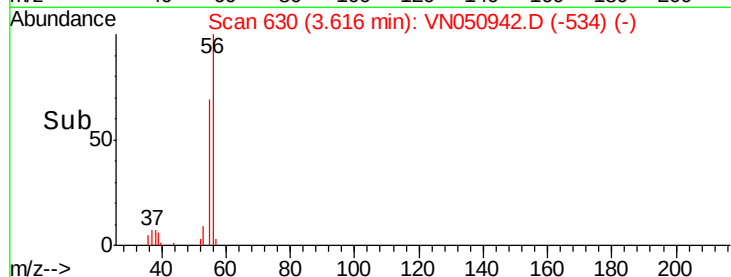


Abundance Ion 56.00 (55.70 to 56.70): VN050942.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN050942.D (-534) (-)

3.62

Time-->



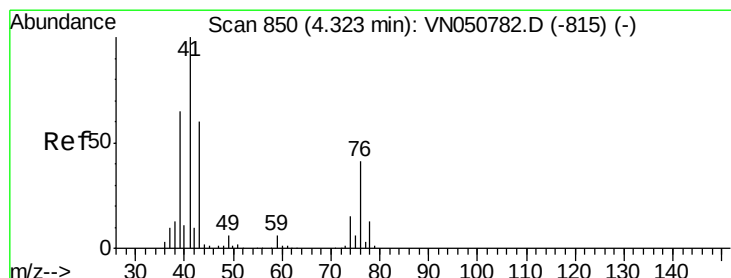
Abundance

Ion 56.00 (55.70 to 56.70): VN050942.D (-534) (-)

Ion 55.00 (54.70 to 55.70): VN050942.D (-534) (-)

3.62

Time-->



#14

Allyl chloride

Concen: 19.102 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

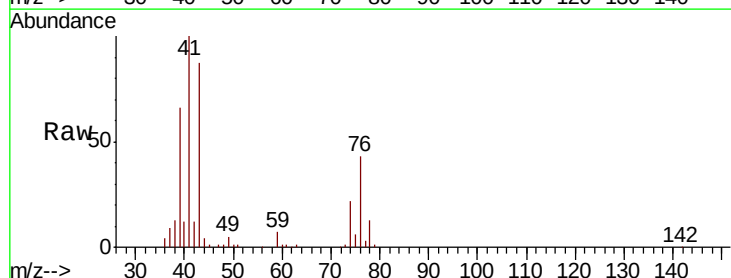
Tgt Ion: 41 Resp: 198230

Ion Ratio Lower Upper

41 100

39 61.6 50.2 75.2

76 38.4 29.8 44.8



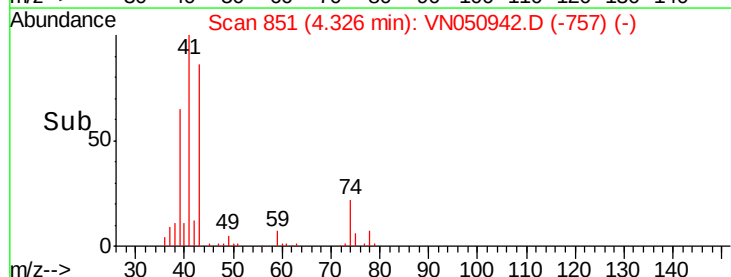
Abundance Ion 41.00 (40.70 to 41.70): VN050942.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN050942.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN050942.D (-757) (-)

4.33

Time-->



Abundance

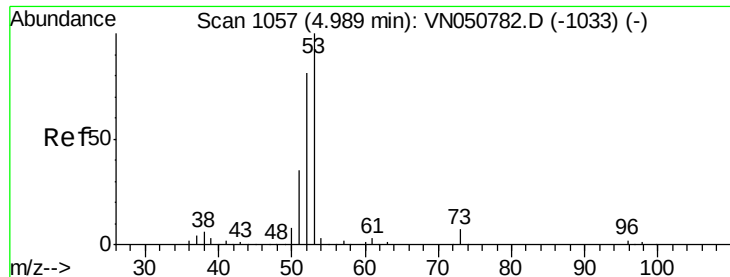
Ion 41.00 (40.70 to 41.70): VN050942.D (-757) (-)

Ion 39.00 (38.70 to 39.70): VN050942.D (-757) (-)

Ion 75.90 (75.60 to 76.60): VN050942.D (-757) (-)

4.33

Time-->



#15

Acrylonitrile

Concen: 113.104 ug/l

RT: 4.99 min Scan# 1059

Delta R.T. 0.01 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

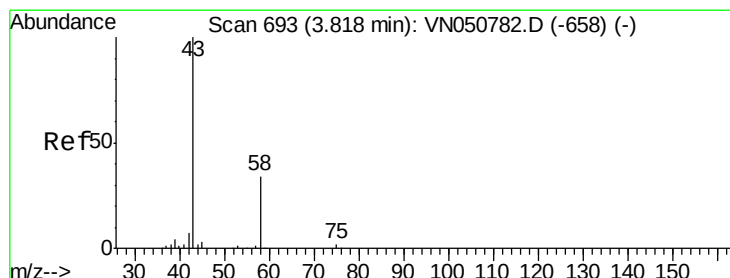
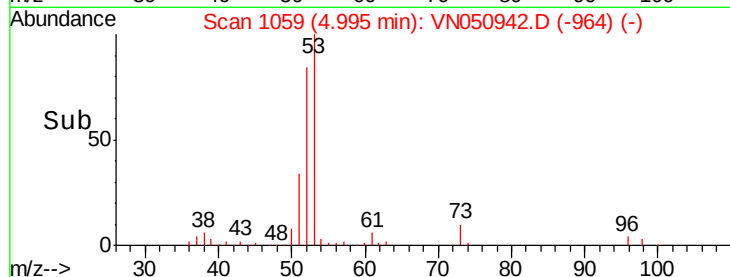
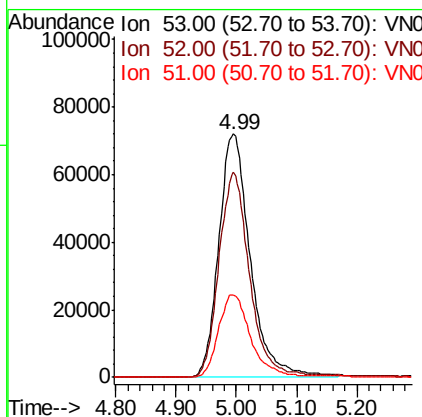
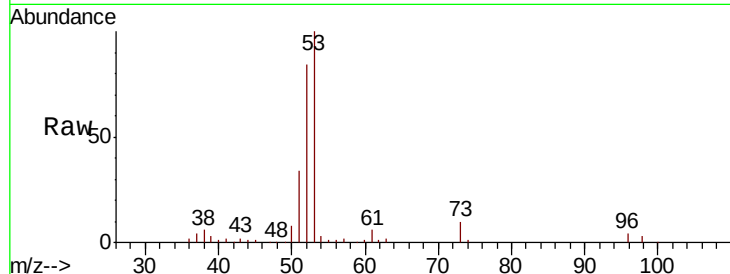
ClientSampleId :

VN0829MBSD01

Tot Ion:	53	Resp:	261284
Ion	Ratio	Lower	Upper
53	100		
52	80.6	65.9	98.9
51	34.6	28.6	43.0

Manual Integrations
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#16

Acetone

Concen: 102.351 ug/l

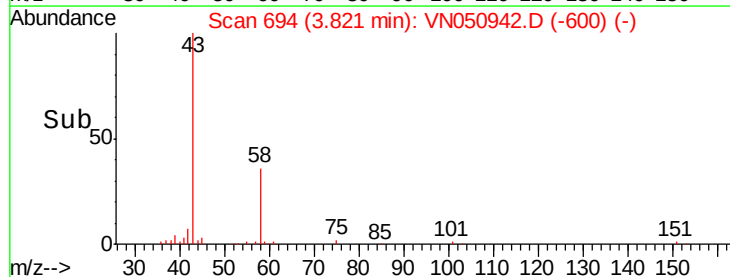
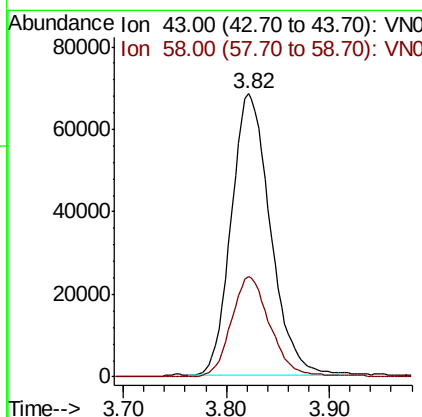
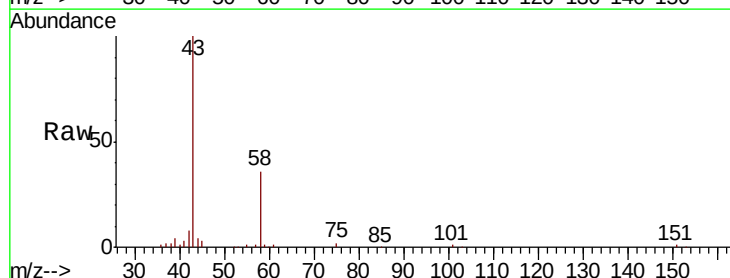
RT: 3.82 min Scan# 694

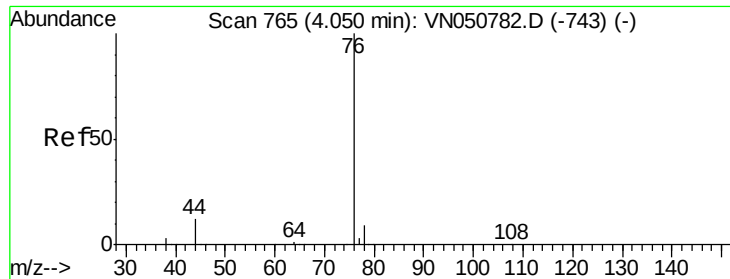
Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Tgt Ion:	43	Resp:	180066
Ion	Ratio	Lower	Upper
43	100		
58	35.9	27.2	40.8





#17

Carbon Disulfide

Concen: 16.475 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBS01

Tot Ion: 76 Resp: 367824

Ion Ratio Lower Upper

76 100

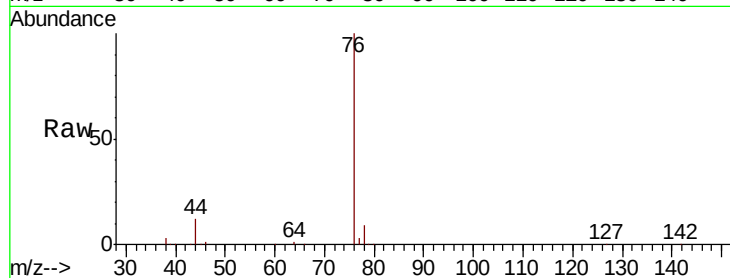
78 9.4 7.3 10.9

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

4.05

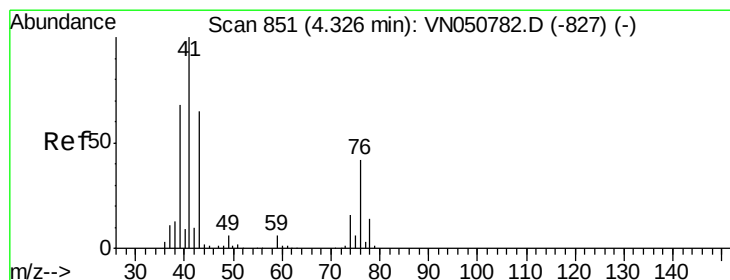
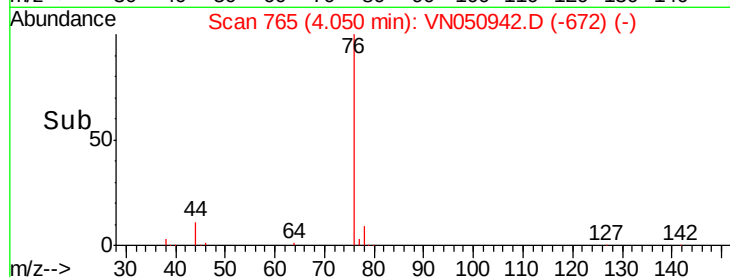
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 24.358 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050942.D

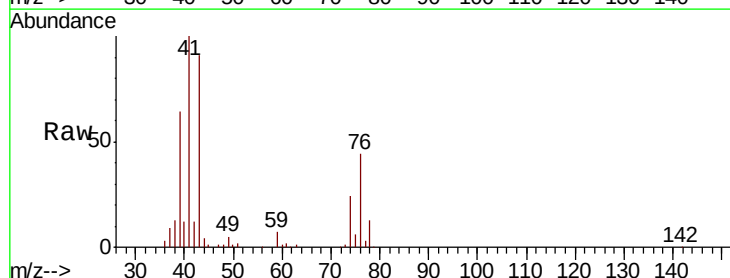
Acq: 29 Aug 2018 11:35

Tgt Ion: 43 Resp: 164187

Ion Ratio Lower Upper

43 100

74 25.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 74.00 (73.70 to 74.70): VNC

4.33

60000

50000

40000

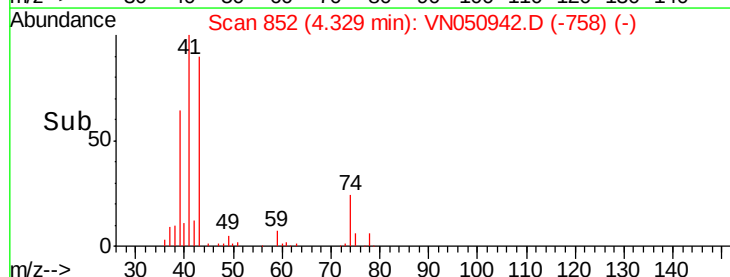
30000

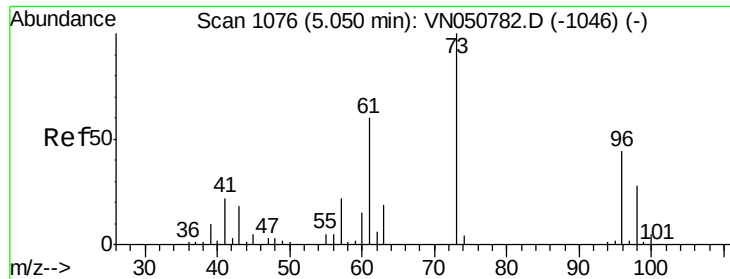
20000

10000

0

Time-->





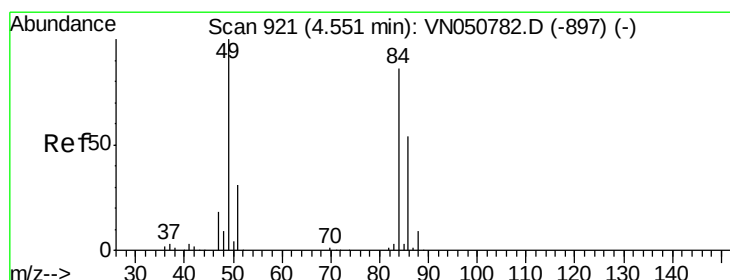
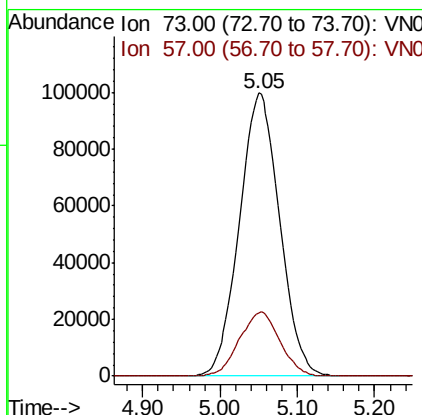
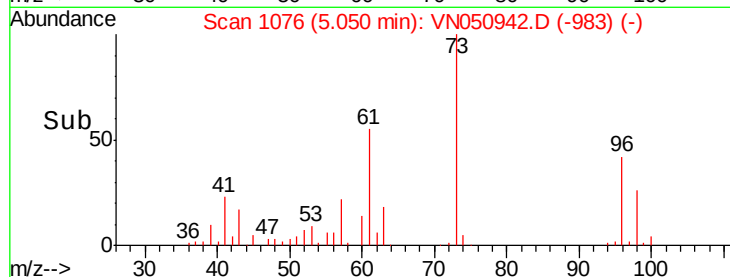
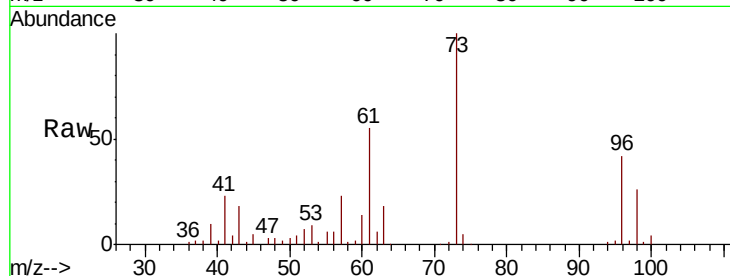
#19
Methvl tert-butyl Ether
Concen: 21.582 ug/l
RT: 5.05 min Scan# 1076
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion: 73 Resp: 361530
Ion Ratio Lower Upper
73 100
57 22.5 17.8 26.8

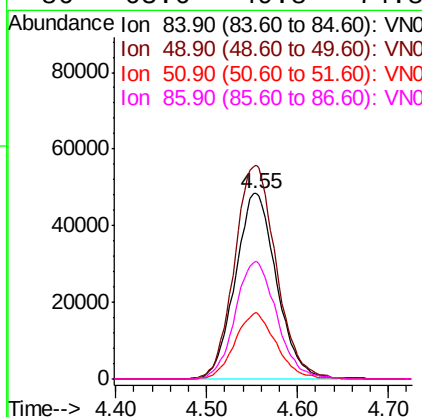
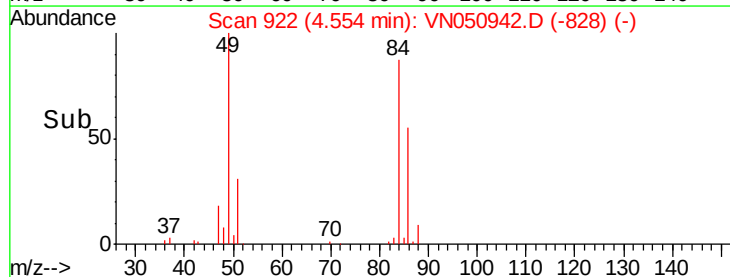
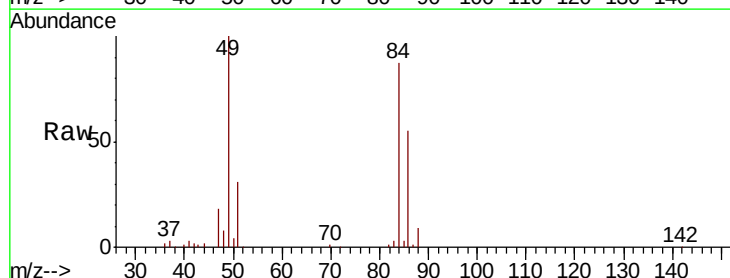
Manual Integrations
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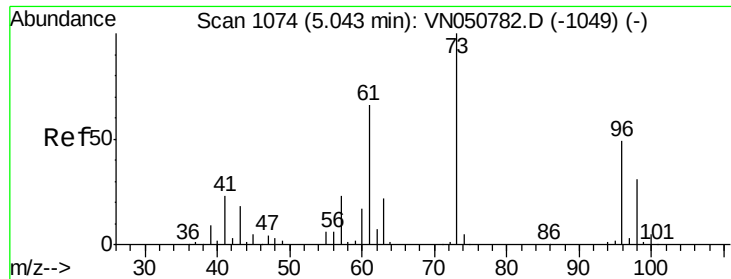
MMDadoda
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#20
Methylene Chloride
Concen: 18.973 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion: 84 Resp: 152648
Ion Ratio Lower Upper
84 100
49 115.1 93.2 139.8
51 35.7 29.0 43.6
86 63.6 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.841 ug/l

RT: 5.05 min Scan# 1075

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

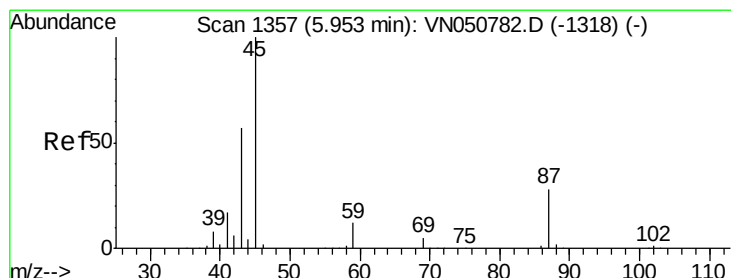
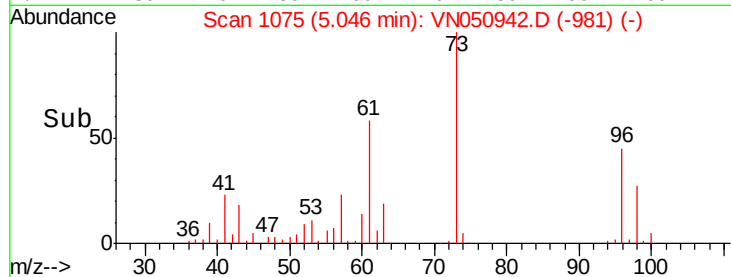
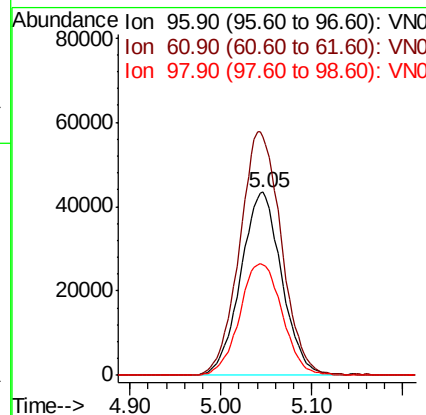
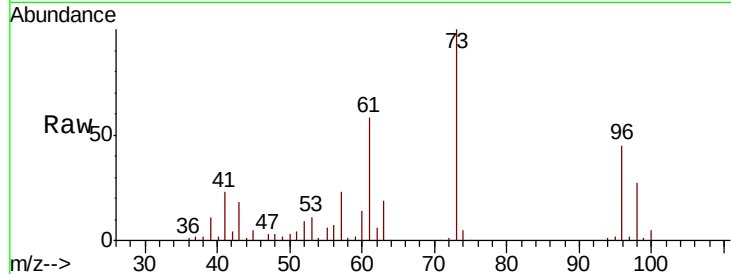
ClientSampleId :

VN0829MBSD01

Tot Ion:	96	Resp:	135716
Ion	Ratio	Lower	Upper
96	100		
61	130.7	107.4	161.0
98	60.5	50.7	76.1

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#22

Diisopropyl ether

Concen: 21.099 ug/l

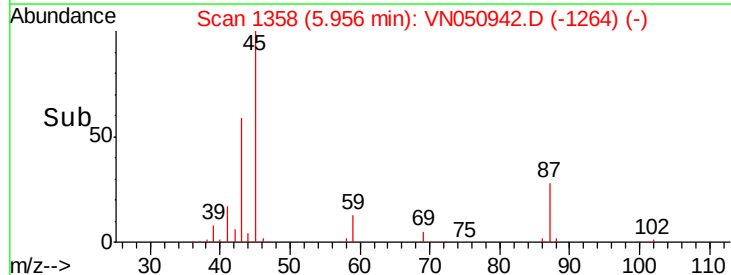
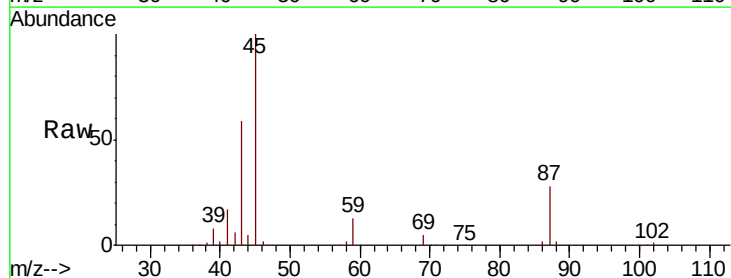
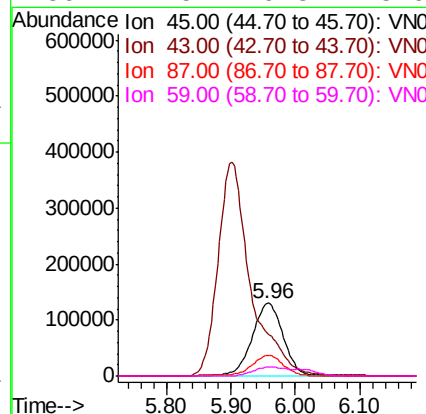
RT: 5.96 min Scan# 1358

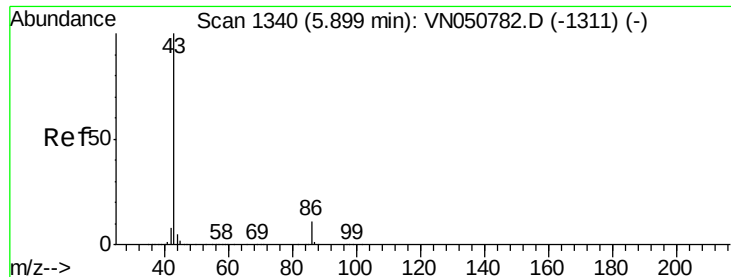
Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Tgt Ion:	45	Resp:	436360
Ion	Ratio	Lower	Upper
45	100		
43	57.5	45.9	68.9
87	28.4	22.7	34.1
59	12.5	9.3	13.9





#23

Vinyl Acetate

Concen: 101.315 ug/l

RT: 5.90 min Scan# 1341

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleID :

VN0829MBSD01

Tot Ion: 43 Resp: 1349393

Ion Ratio Lower Upper

43 100

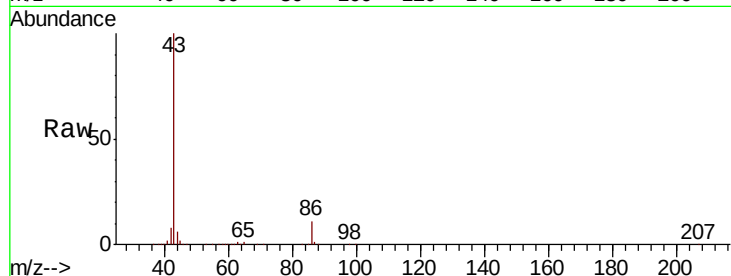
86 11.0 8.7 13.1

Manual Integrations

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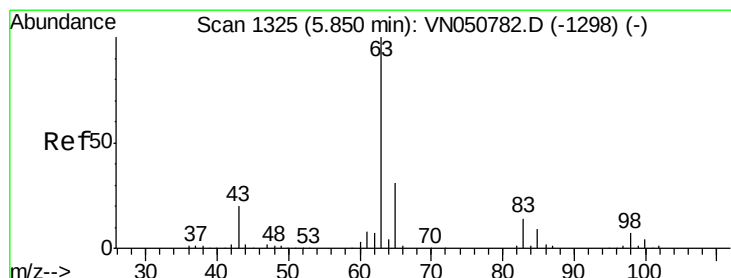
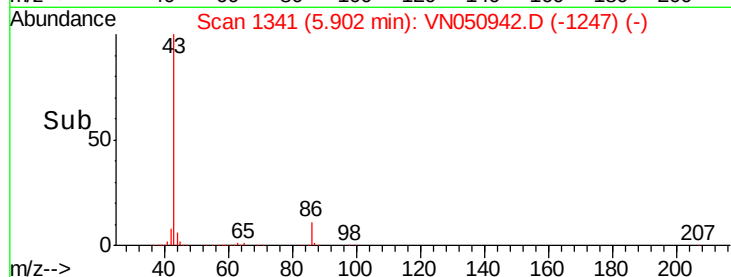
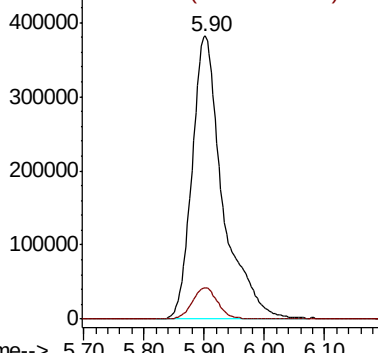
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.373 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

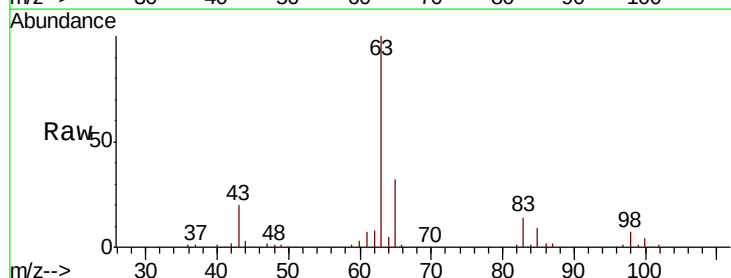
Tgt Ion: 63 Resp: 257223

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

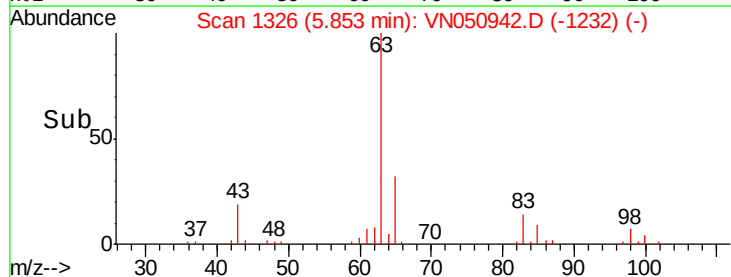
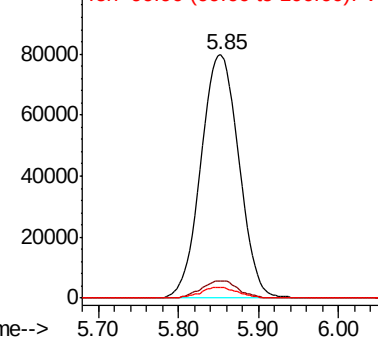
100 4.3 2.1 6.5

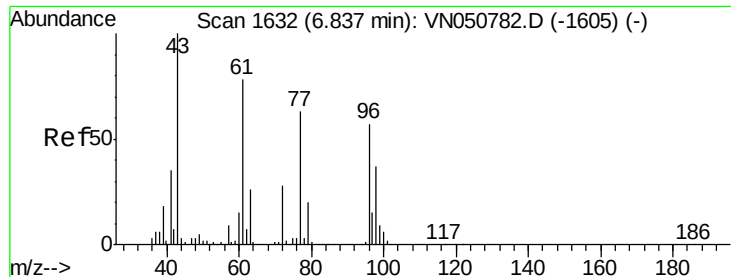


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





#25

2-Butanone

Concen: 100.564 ug/l

RT: 6.84 min Scan# 1634

Delta R.T. 0.01 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampled :

VN0829MBSD01

Tot Ion: 43 Resp: 289295

Ion Ratio Lower Upper

43 100

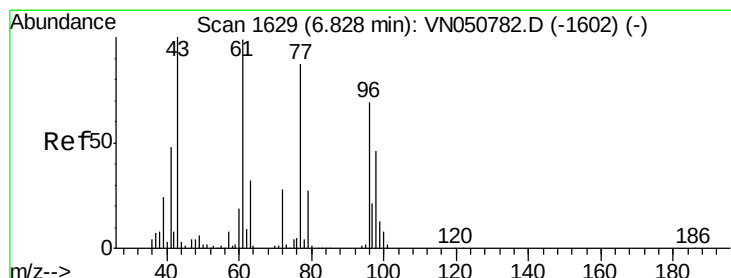
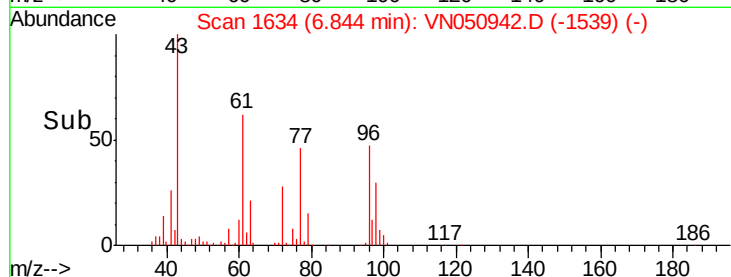
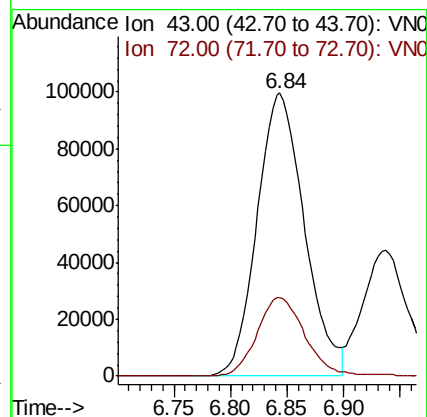
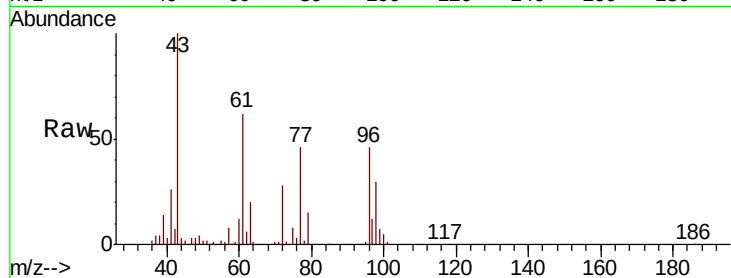
72 27.7 22.3 33.5

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 17.711 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050942.D

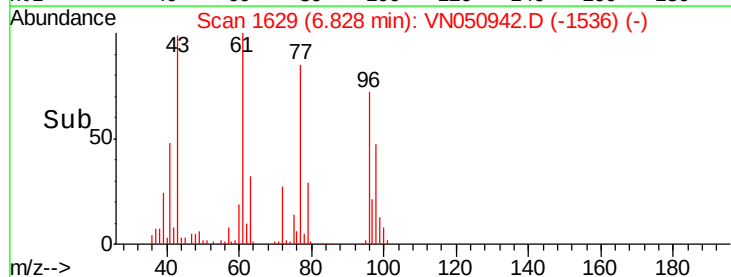
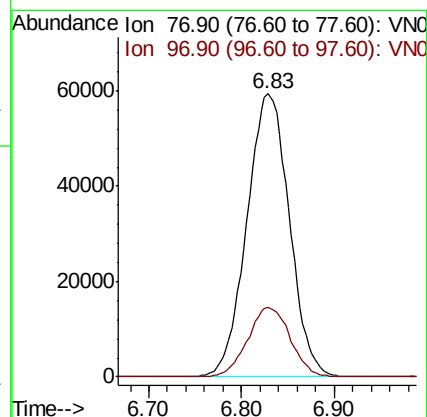
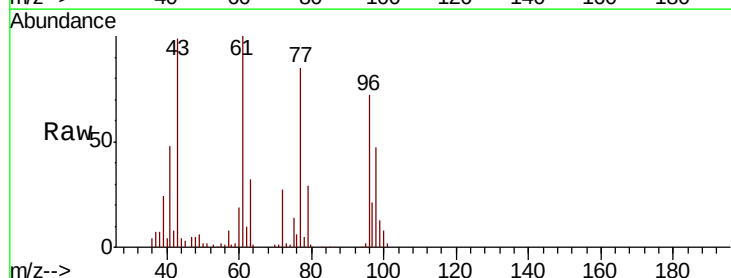
Acq: 29 Aug 2018 11:35

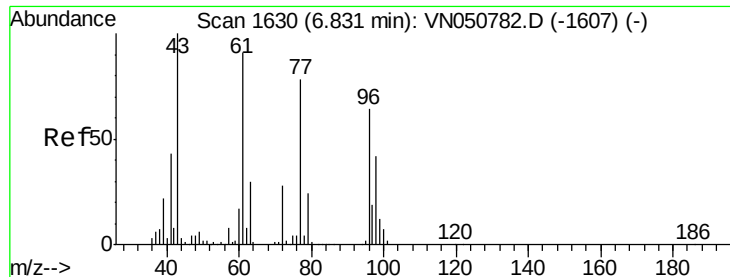
Tgt Ion: 77 Resp: 188959

Ion Ratio Lower Upper

77 100

97 24.6 12.0 36.0





#27

cis-1,2-Dichloroethene

Concen: 19.651 ug/l

RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

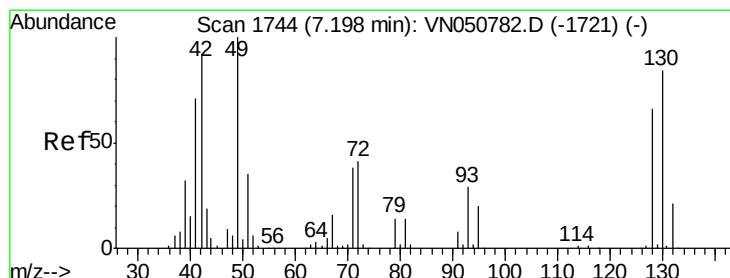
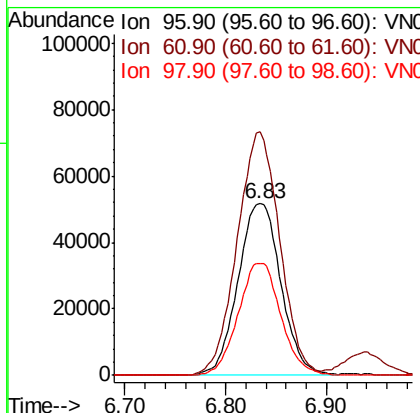
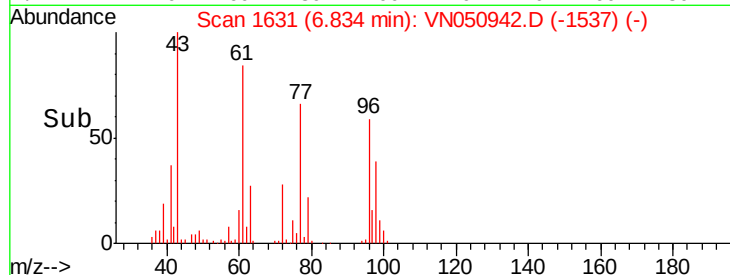
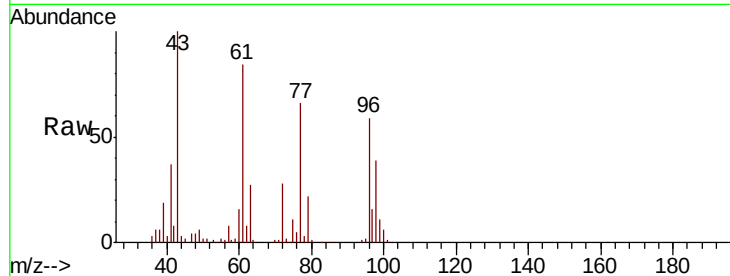
ClientSampleId :

VN0829MBSD01

Tot Ion:	96	Resp:	152603
Ion Ratio	Lower	Upper	
96	100		
61	140.8	0.0	283.4
98	65.1	0.0	129.8

Manual Integrations
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#28

Bromochloromethane

Concen: 17.084 ug/l

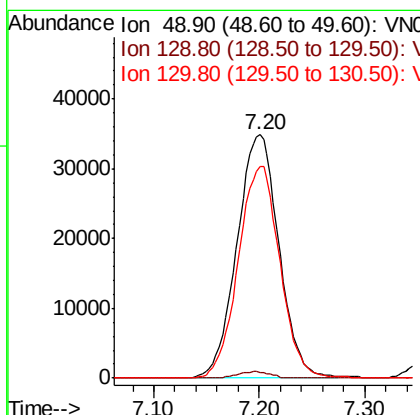
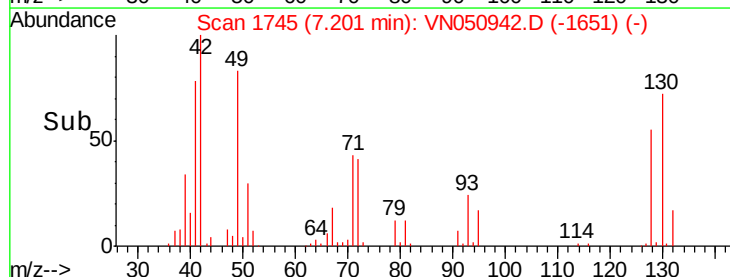
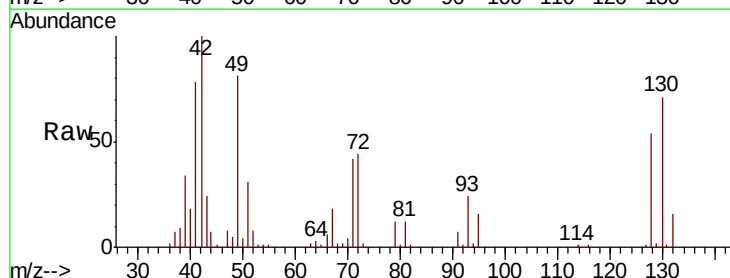
RT: 7.20 min Scan# 1745

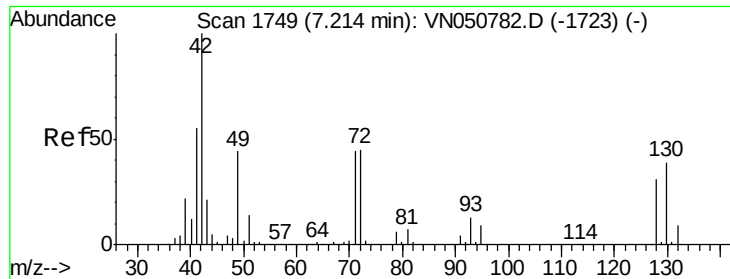
Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Tgt Ion:	49	Resp:	96385
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.2
130	86.2	67.1	100.7





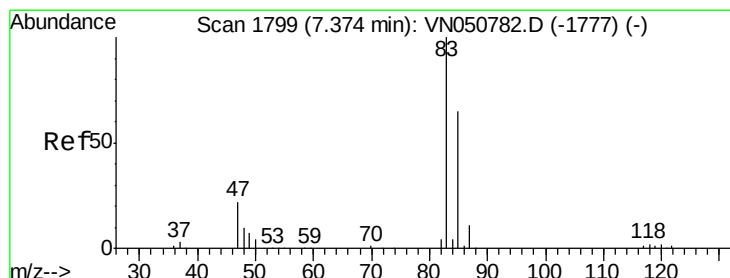
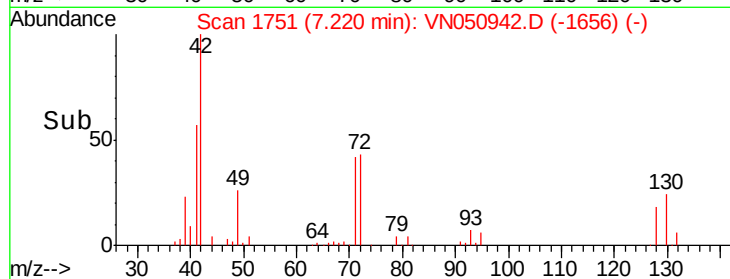
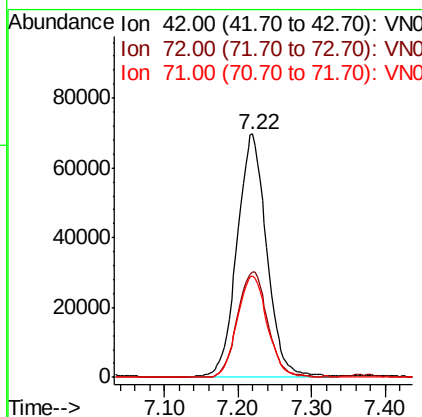
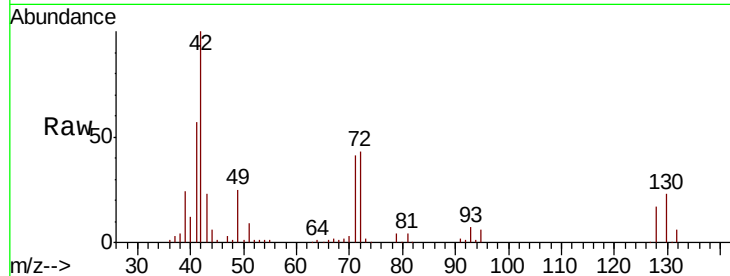
#29
Tetrahydrofuran
Concen: 119.319 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.01 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.5	53.3
71	41.9	33.7	50.5

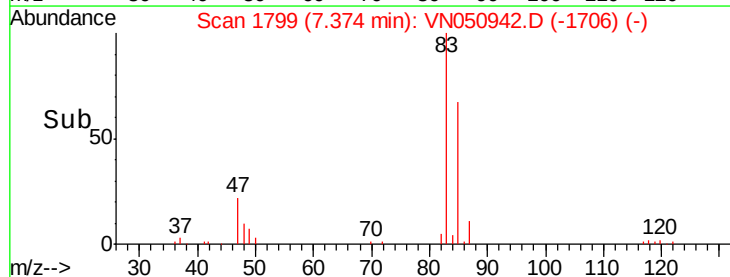
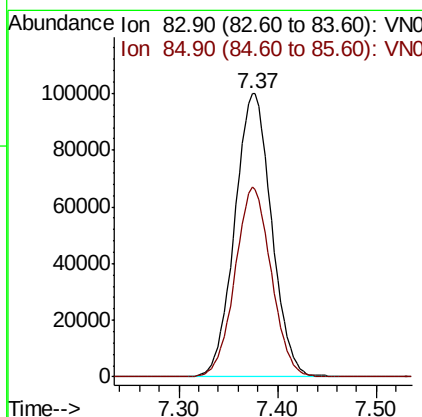
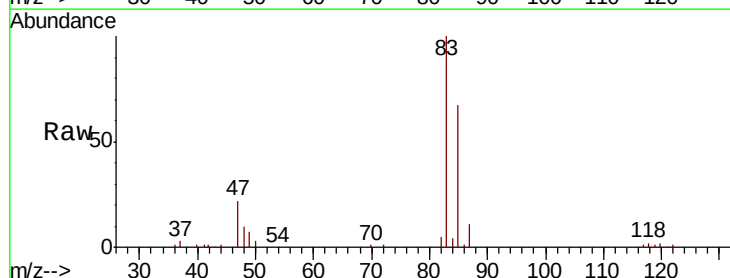
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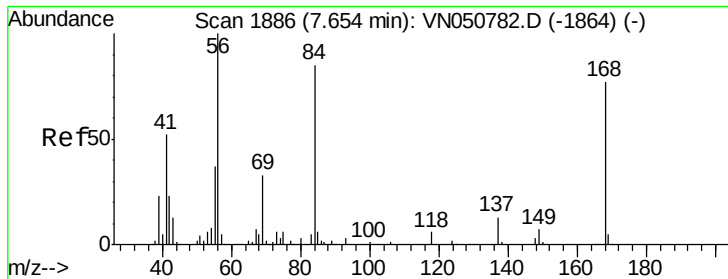
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#30
Chloroform
Concen: 19.630 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.1	52.2	78.4





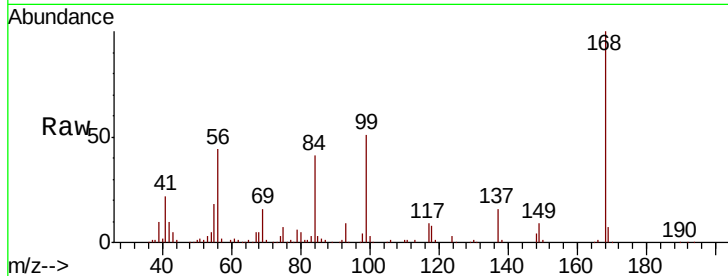
#31
Cyclohexane
Concen: 18.934 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

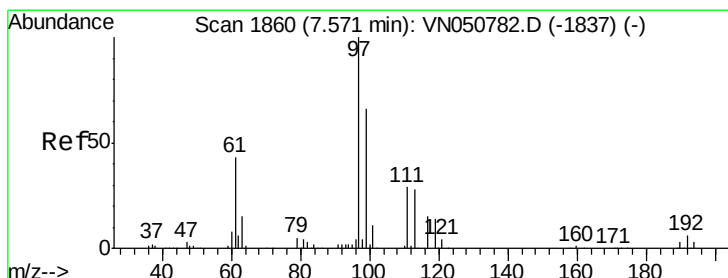
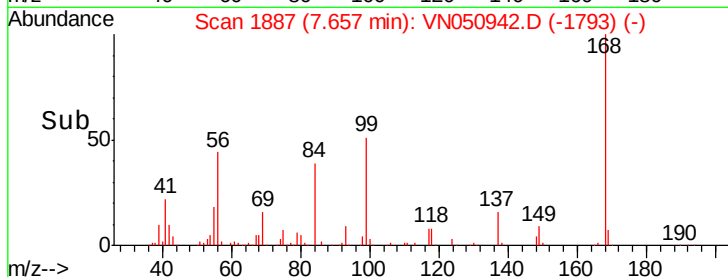
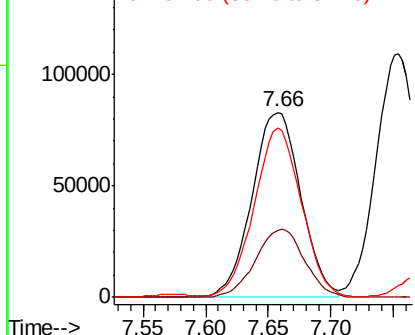
Tot Ion	Ratio	Resp	Lower	Upper
56	100	224985		
69	36.1		26.2	39.4
84	90.1		68.3	102.5

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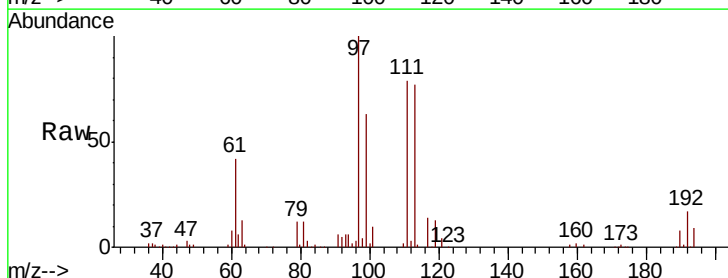


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

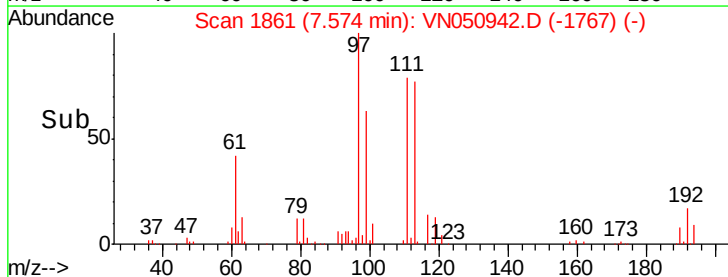
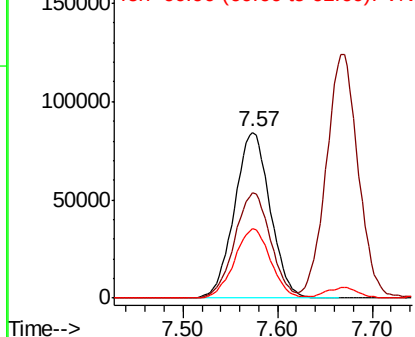


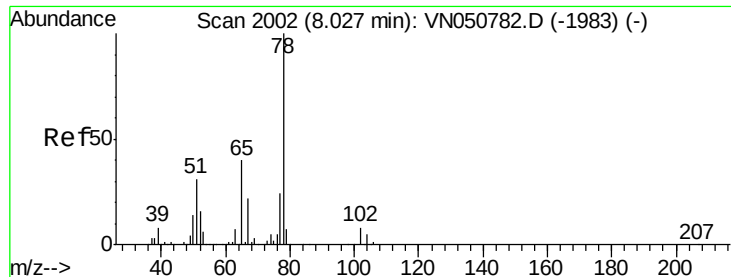
#32
1,1,1-Trichloroethane
Concen: 19.538 ug/l
RT: 7.57 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	220644		
99	64.2		51.8	77.6
61	42.3		34.9	52.3



Abundance Ion 96.90 (96.60 to 97.60): VN0
Ion 98.90 (98.60 to 99.60): VN0
Ion 60.90 (60.60 to 61.60): VN0





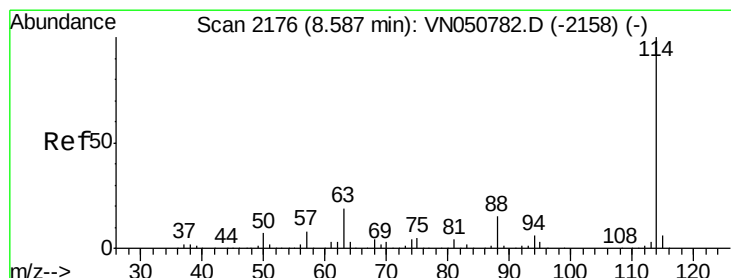
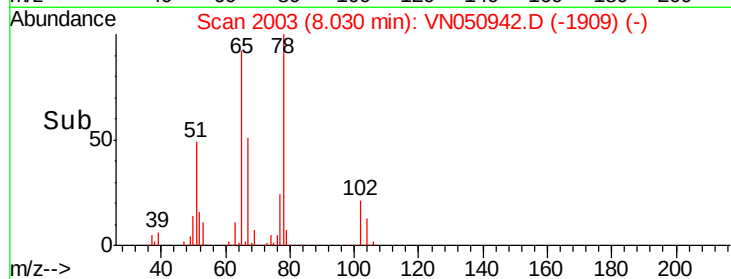
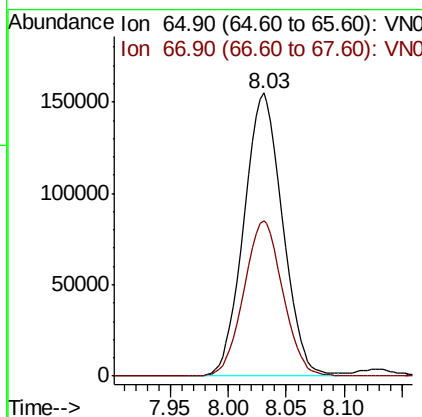
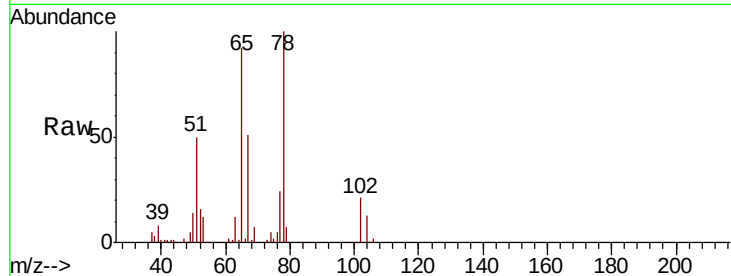
#33
 1,2-Dichloroethane-d4
 Concen: 50.517 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampled :
 VN0829MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.2	0.0	110.4	

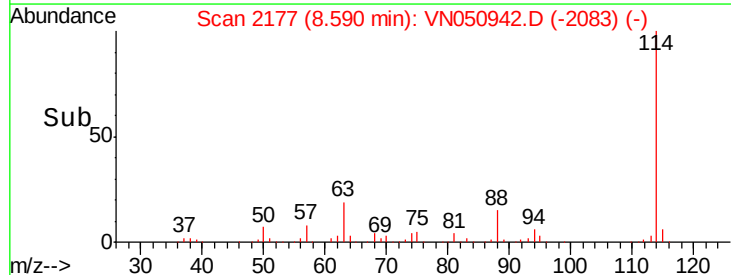
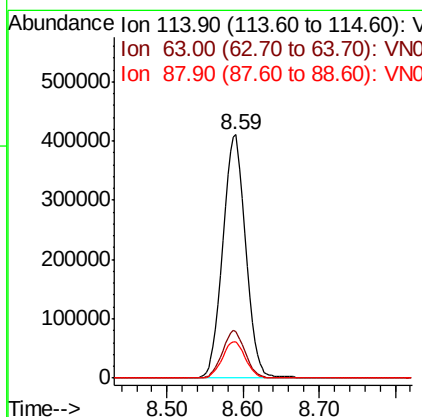
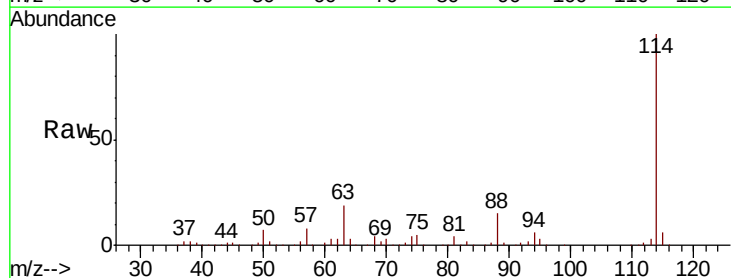
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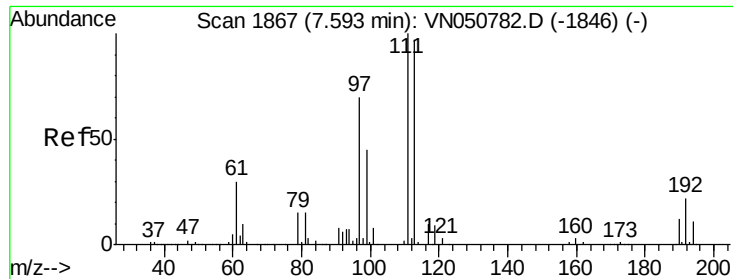
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.1	0.0	38.6	
88	15.0	0.0	30.6	





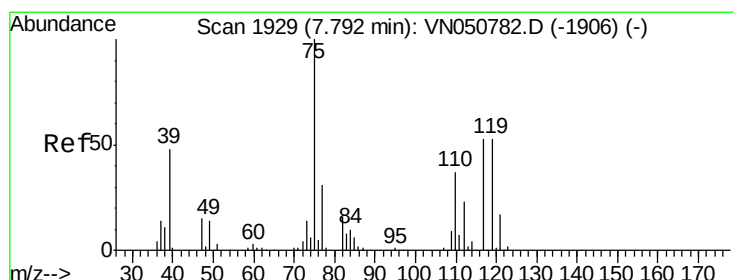
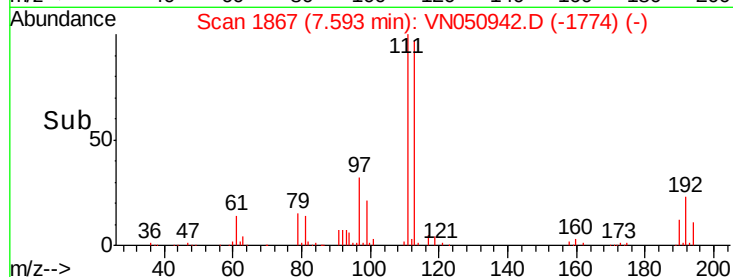
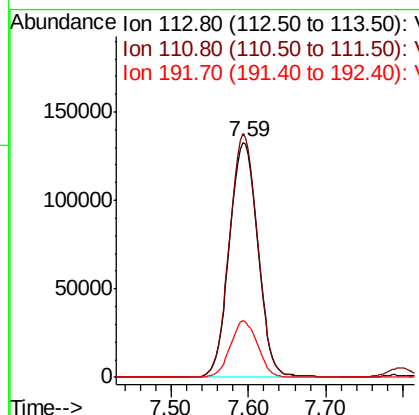
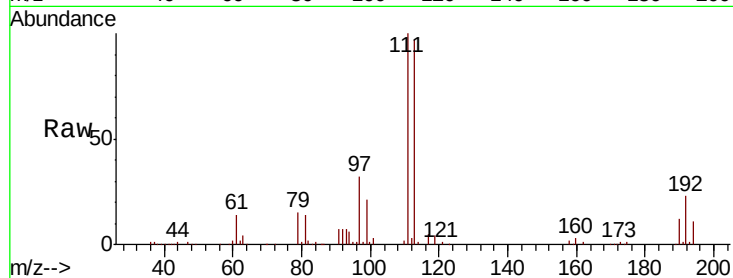
#35
 Dibromofluoromethane
 Concen: 49.177 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.4	82.6	123.8	
192	23.1	18.0	27.0	

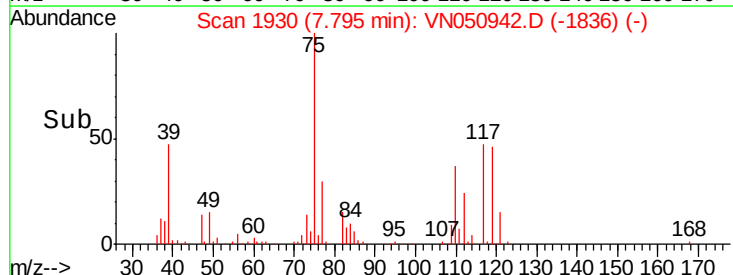
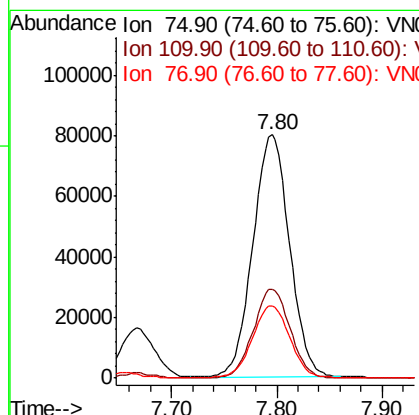
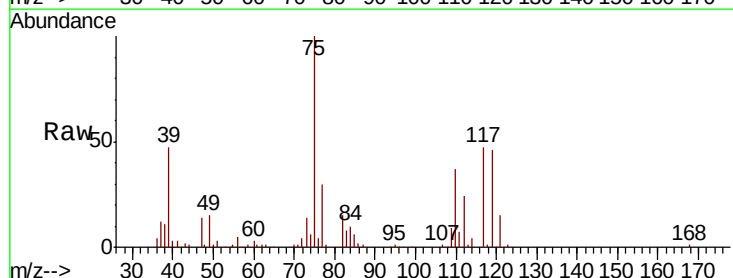
Manual Integrations
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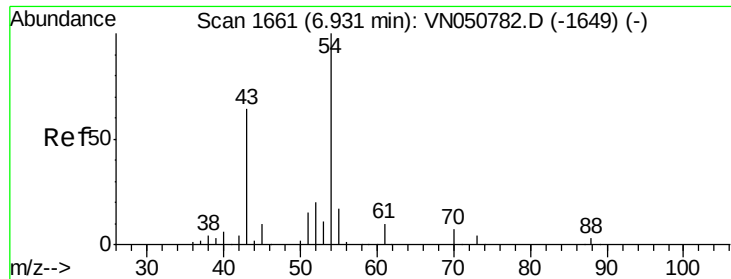
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#36
 1,1-Dichloropropene
 Concen: 19.016 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.7	18.1	54.4	
77	30.8	24.8	37.2	





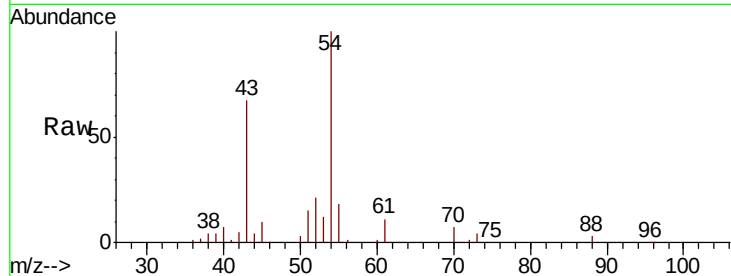
#37
Ethyl Acetate
Concen: 21.185 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.01 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

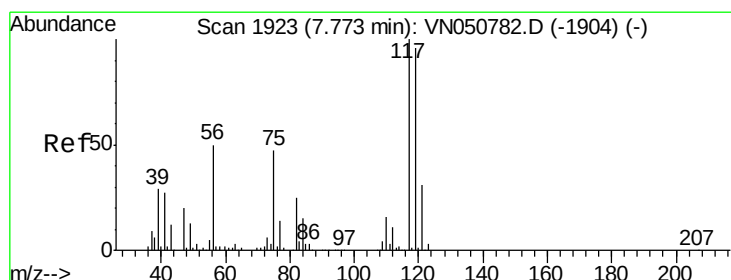
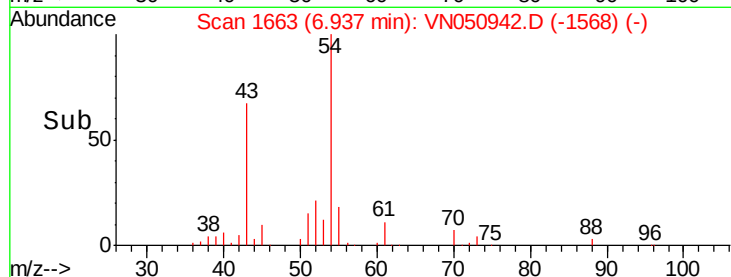
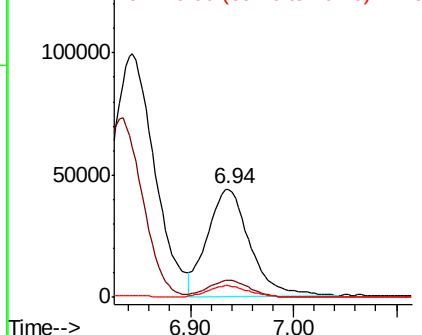
Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.0	18.0
70	10.8	8.6	13.0

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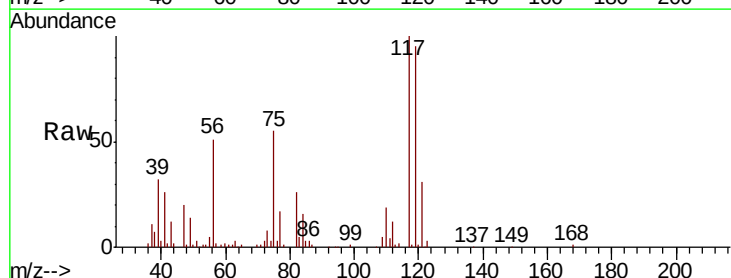


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

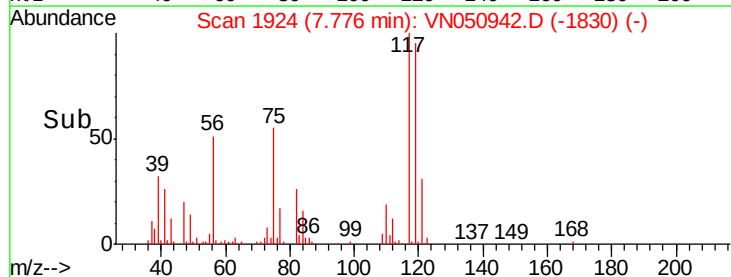
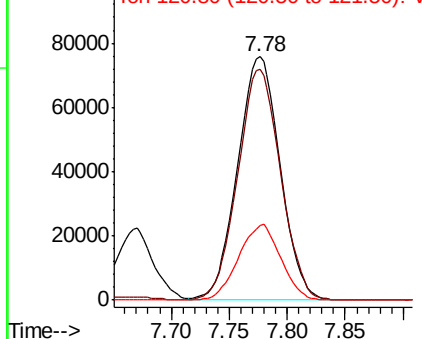


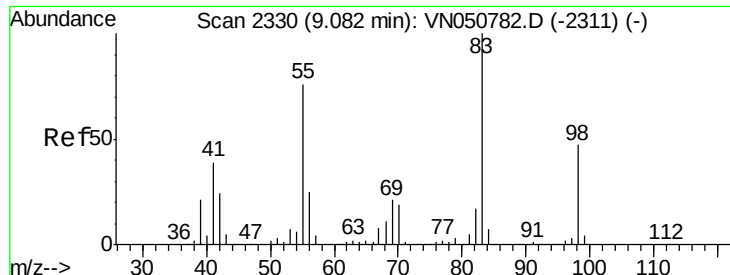
#38
Carbon Tetrachloride
Concen: 18.626 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.3	114.5
121	30.7	24.6	36.8



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





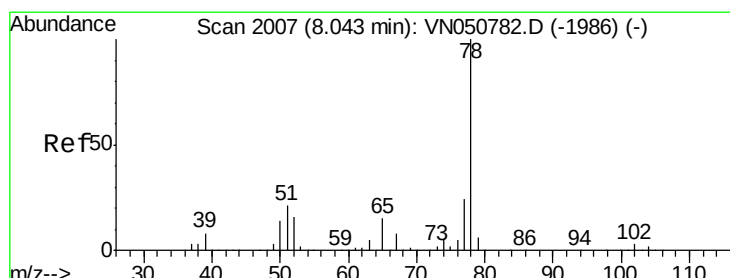
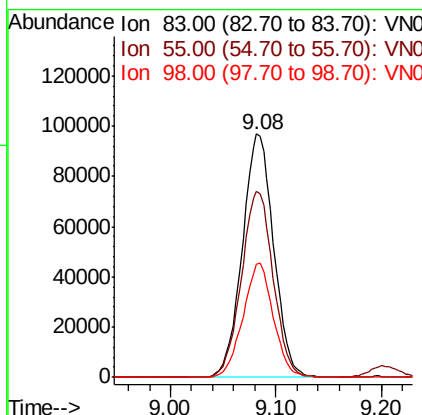
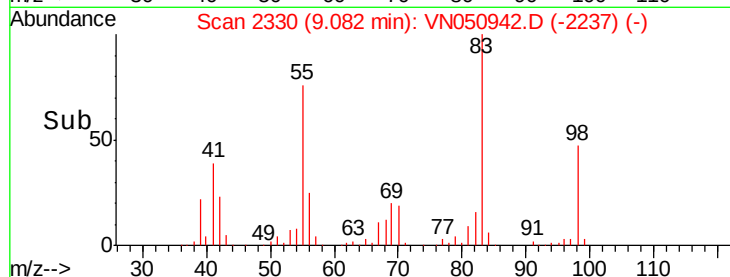
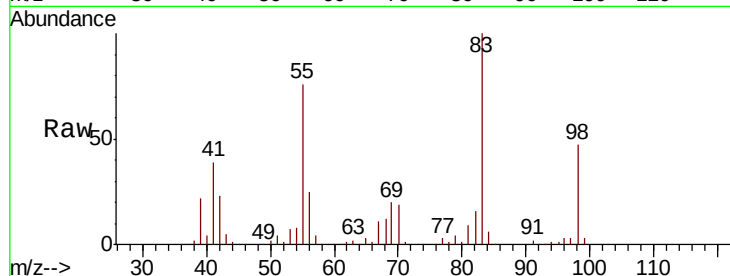
#39
Methylvlcyclohexane
Concen: 18.057 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	199682		
55	76.4		61.0	91.4
98	46.7		37.5	56.3

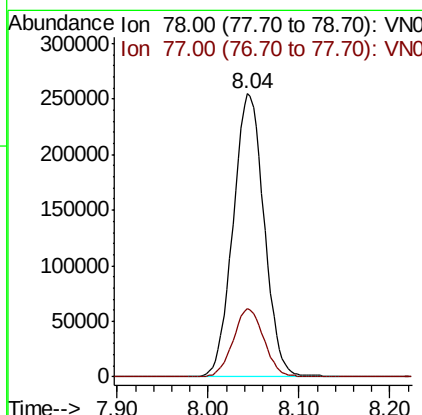
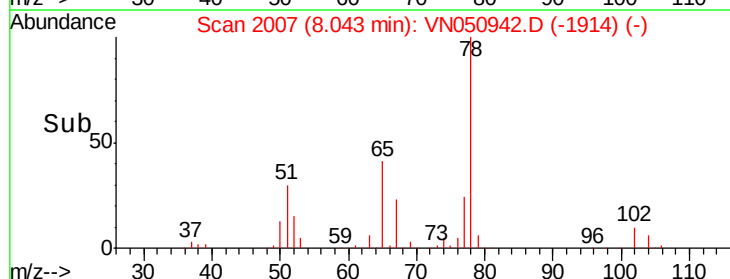
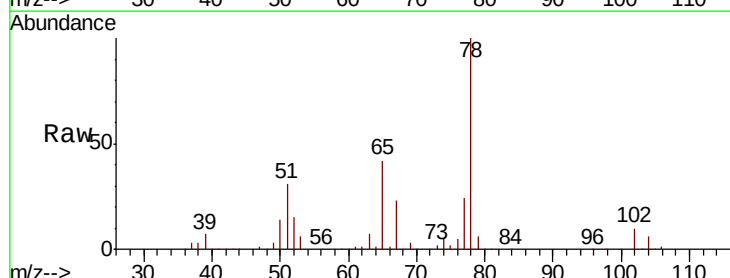
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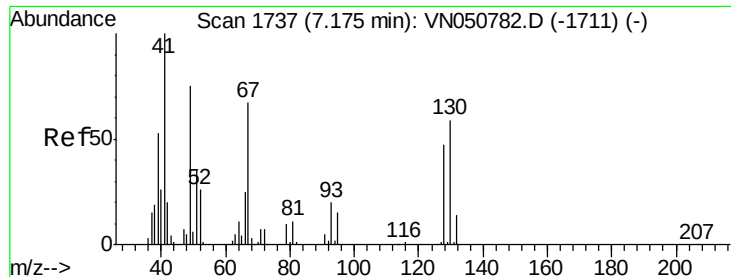
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#40
Benzene
Concen: 19.583 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	603619		
77	24.0		19.0	28.4





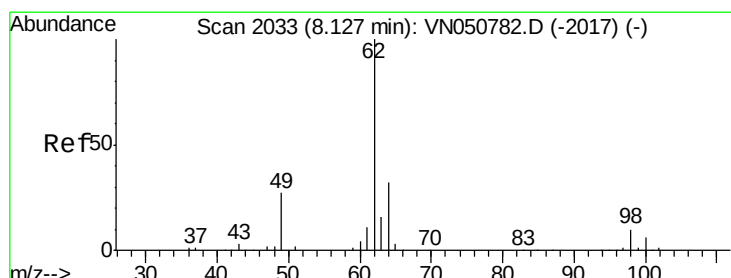
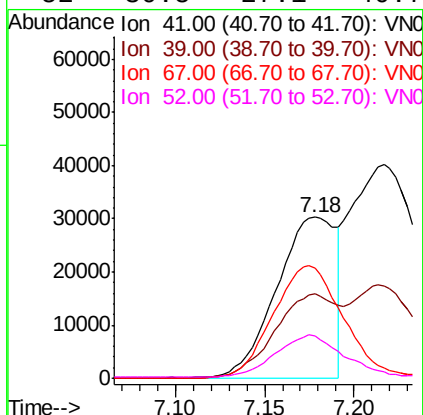
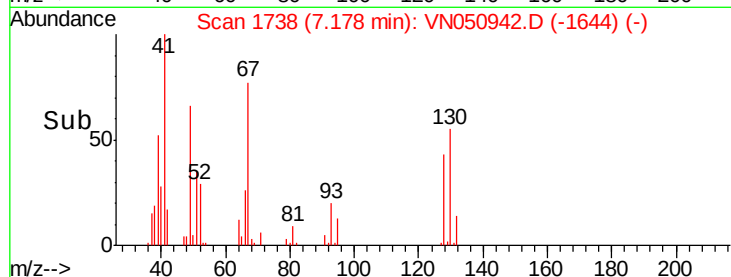
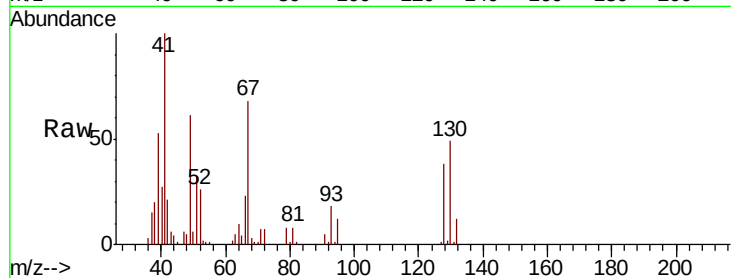
#41
Methacrylonitrile
Concen: 22.153 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	41	Resp	70394
Ion	Ratio	Lower	Upper
41	100		
39	56.5	45.4	68.0
67	83.4	70.6	106.0
52	30.5	27.1	40.7

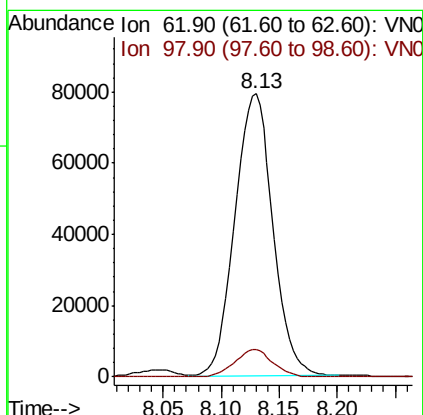
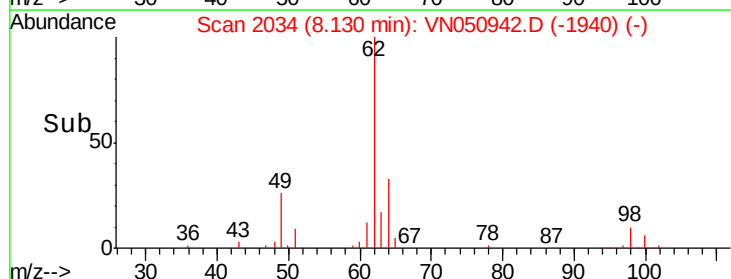
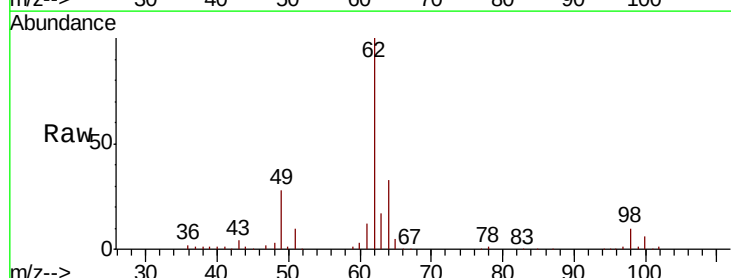
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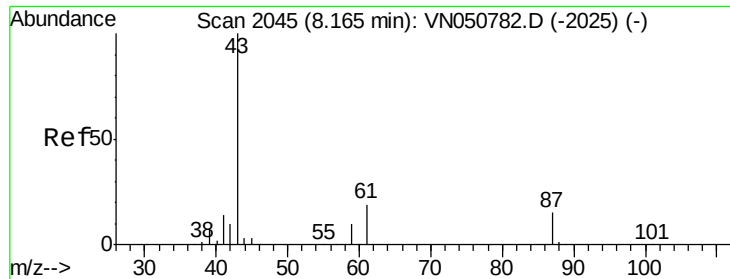
MMDadoda
8/30/2018 11:07:39 AM



#42
1,2-Dichloroethane
Concen: 19.606 ug/l
RT: 8.13 min Scan# 2034
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	62	Resp	180677
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.6





#43

Isopropyl Acetate

Concen: 22.706 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

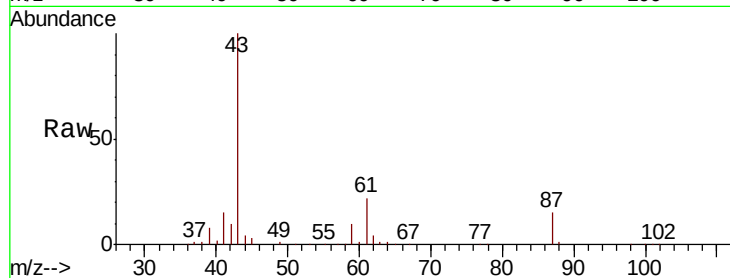
ClientSampleId :

VN0829MBSD01

Tot Ion:	43	Resp:	229236
Ion	Ratio	Lower	Upper
43	100		
61	20.4	17.5	26.3
87	13.5	11.3	16.9

Manual Integrations
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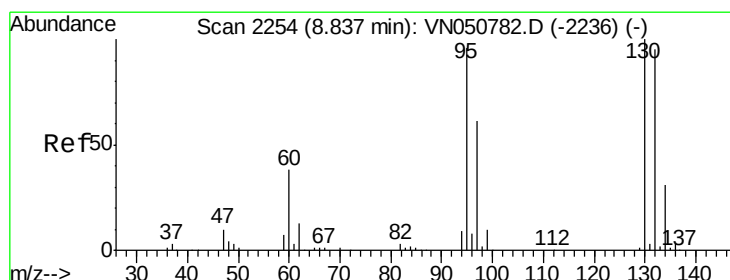
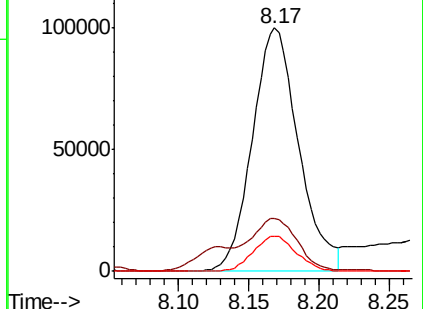
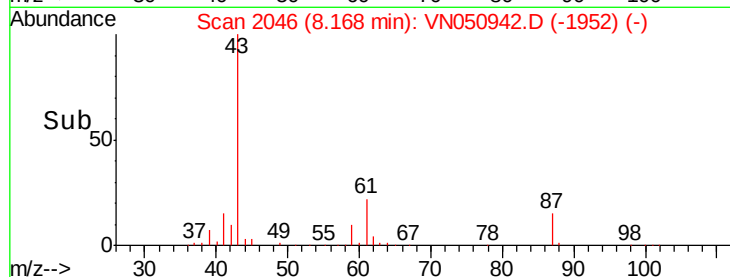


Abundance Ion 43.00 (42.70 to 43.70): VN050782.D (-2025) (-)

Ion 61.00 (60.70 to 61.70): VN050782.D (-2025) (-)

Ion 87.00 (86.70 to 87.70): VN050782.D (-2025) (-)

Time-->



#44

Trichloroethene

Concen: 19.175 ug/l

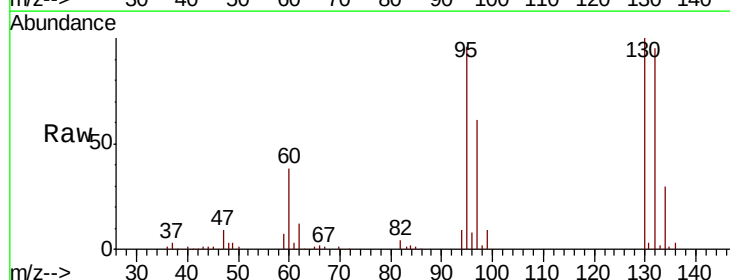
RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

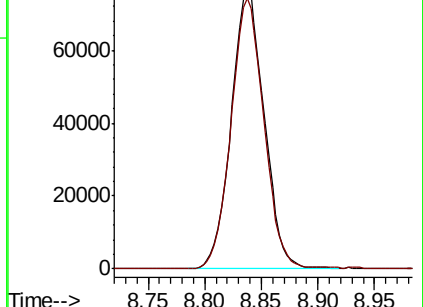
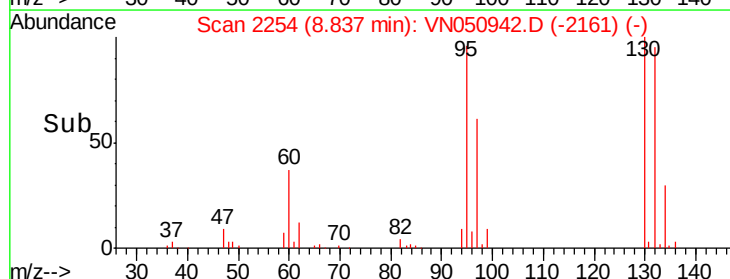
Tgt Ion:	130	Resp:	155877
Ion	Ratio	Lower	Upper
130	100		
95	95.6	0.0	193.0

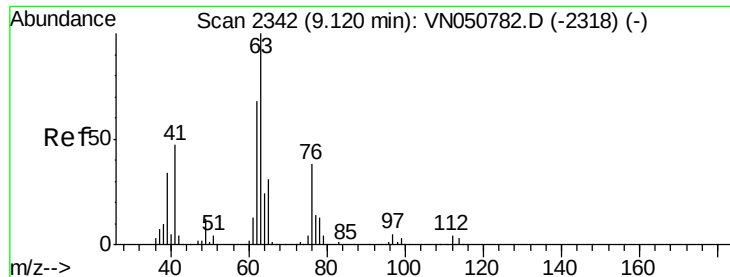


Abundance Ion 129.80 (129.50 to 130.50): VN050782.D (-2236) (-)

Ion 94.90 (94.60 to 95.60): VN050782.D (-2236) (-)

Time-->





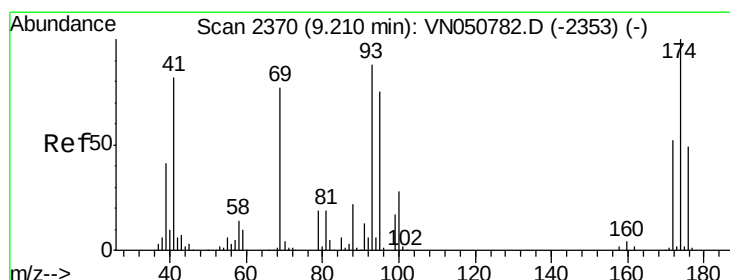
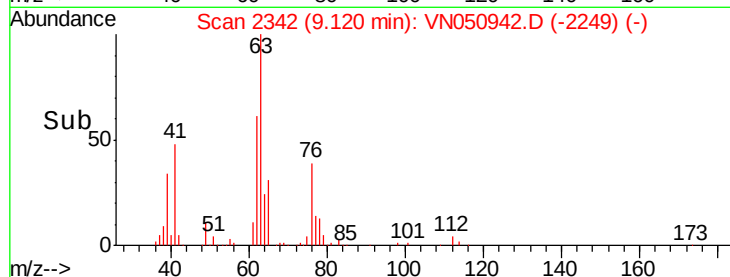
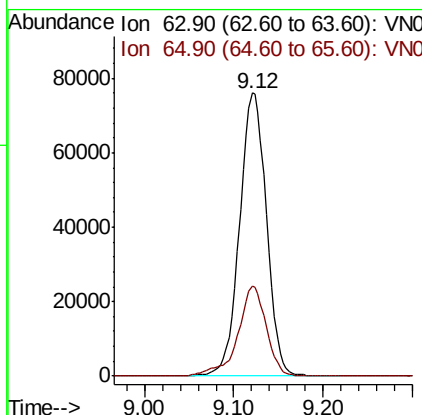
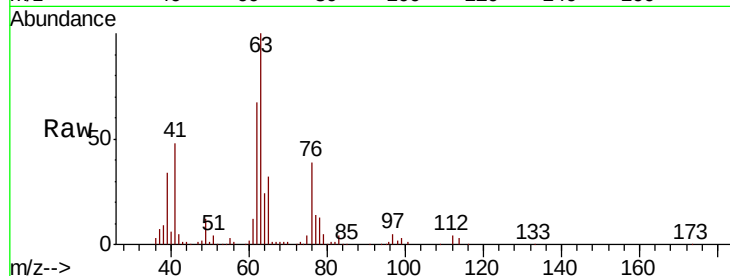
#45
 1,2-Dichloropropane
 Concen: 19.705 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion: 63 Resp: 159631
 Ion Ratio Lower Upper
 63 100
 65 31.7 25.0 37.6

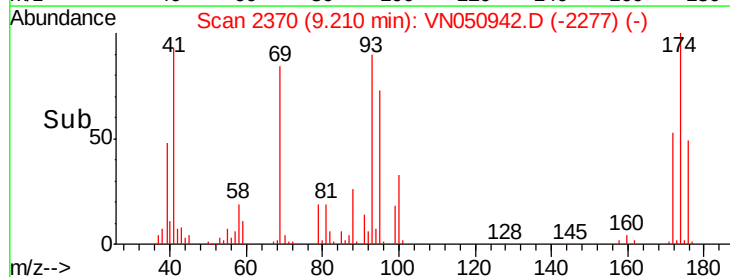
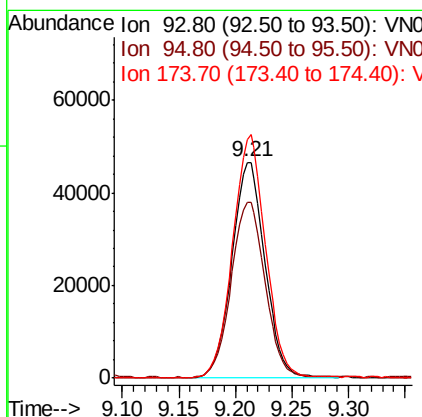
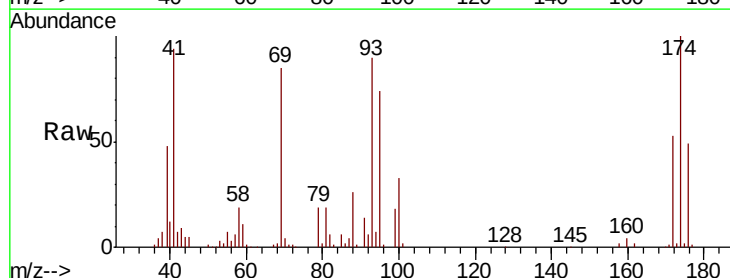
Manual Integrations
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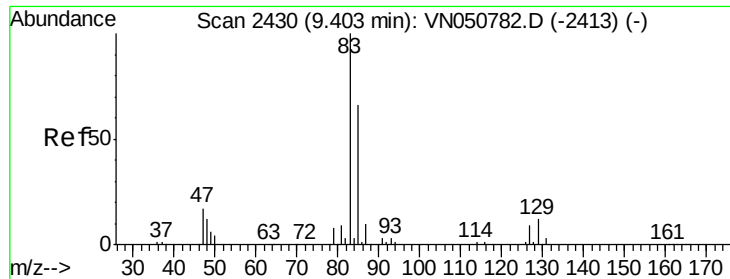
MMDadoda
 8/30/2018 11:07:39 AM



#46
 Dibromomethane
 Concen: 19.978 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion: 93 Resp: 95094
 Ion Ratio Lower Upper
 93 100
 95 83.7 66.7 100.1
 174 111.8 89.8 134.6





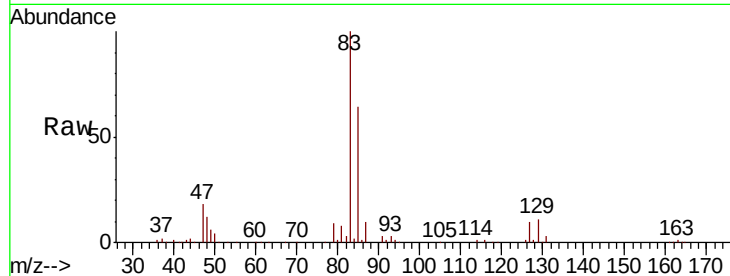
#47
Bromodichloromethane
Concen: 19.583 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.6	78.8
127	9.6	7.2	10.8

Manual Integrations
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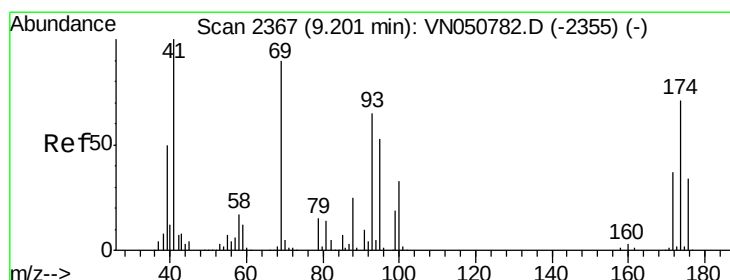
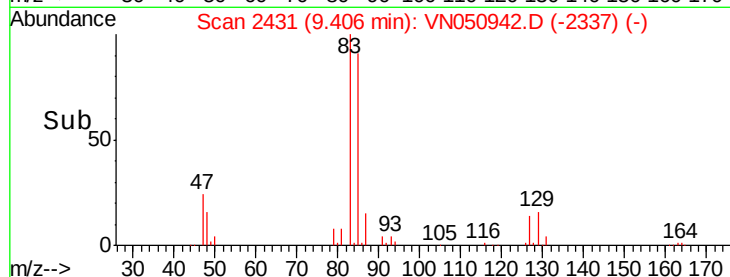
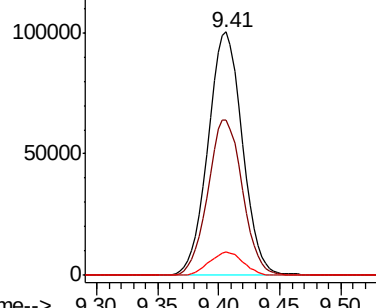
MMDadoda
8/30/2018 11:07:39 AM



Abundance Ion 82.90 (82.60 to 83.60): VN050782.D (-2413) (-)

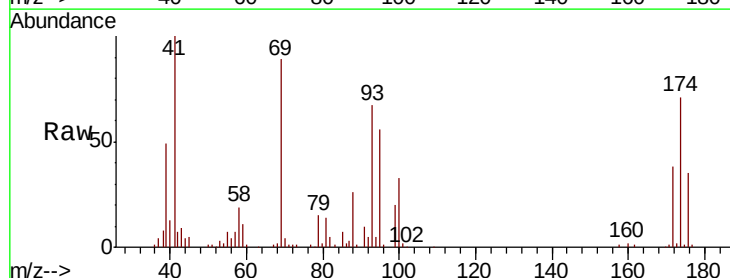
Ion 84.90 (84.60 to 85.60): VN050782.D (-2413) (-)

Ion 126.80 (126.50 to 127.50): VN050782.D (-2413) (-)



#48
Methyl methacrylate
Concen: 20.931 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

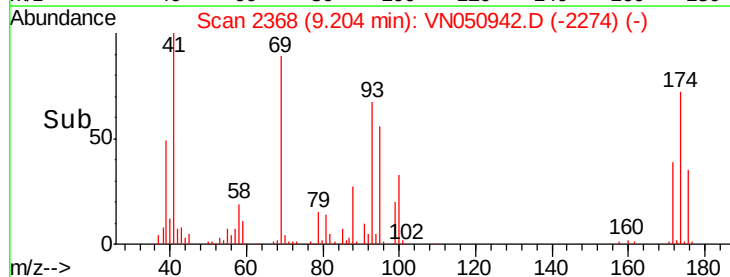
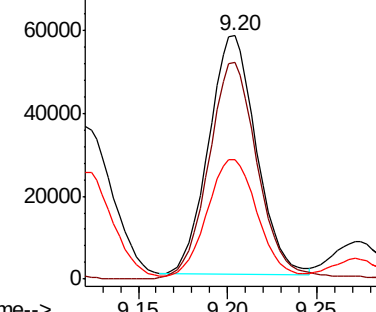
Tgt Ion	Ratio	Lower	Upper
41	100		
69	94.2	74.7	112.1
39	52.8	42.2	63.2

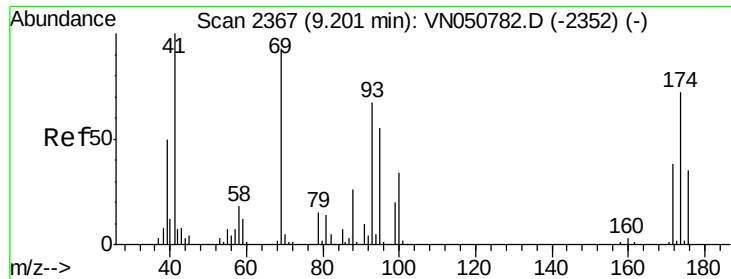


Abundance Ion 41.00 (40.70 to 41.70): VN050782.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN050782.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN050782.D (-2355) (-)





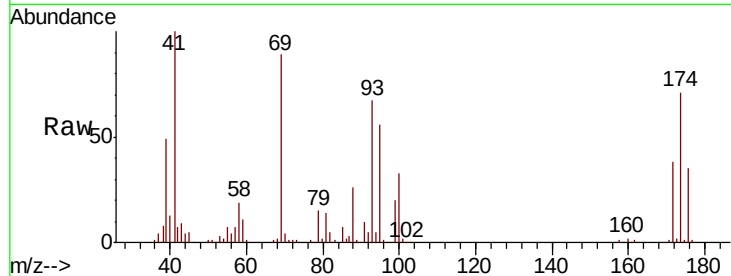
#49
1,4-Dioxane
Concen: 456.021 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.8	25.9	38.9
58	73.7	55.0	82.4

Manual Integrations
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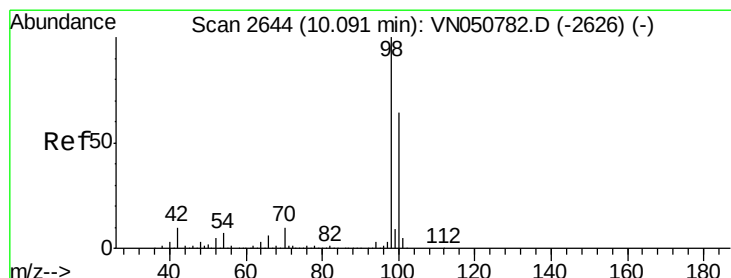
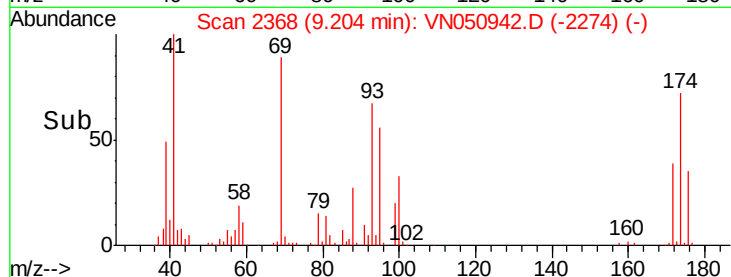
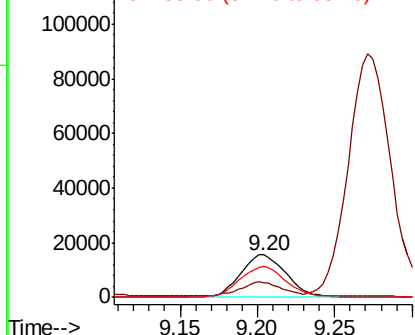


Abundance

Ion 88.00 (87.70 to 88.70): VN0

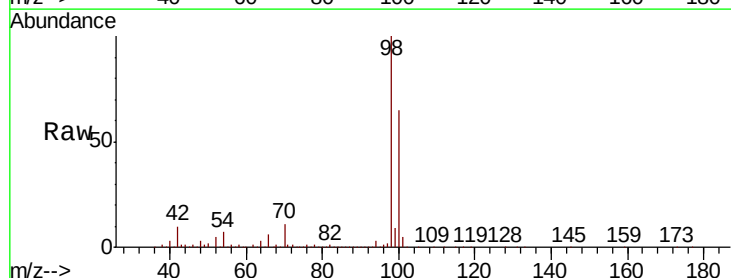
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 49.213 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

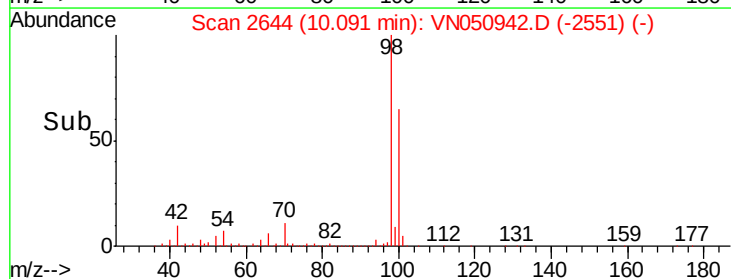
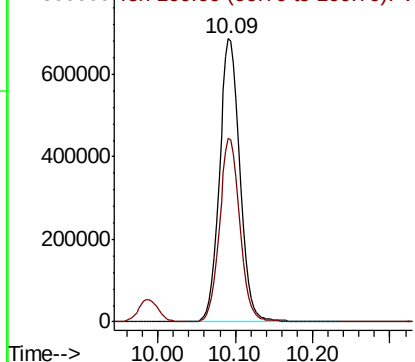
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.5	77.3

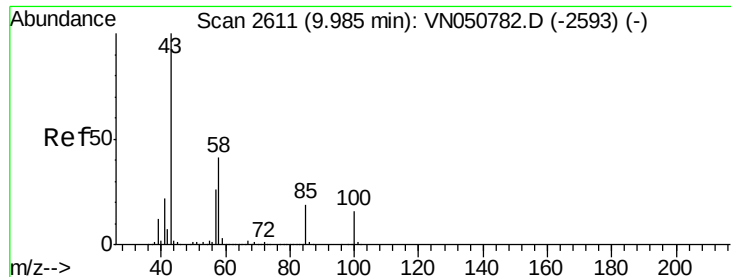


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





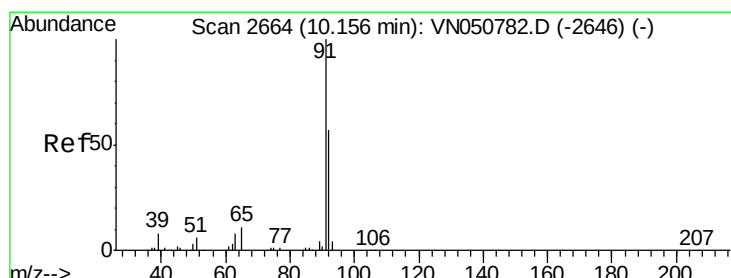
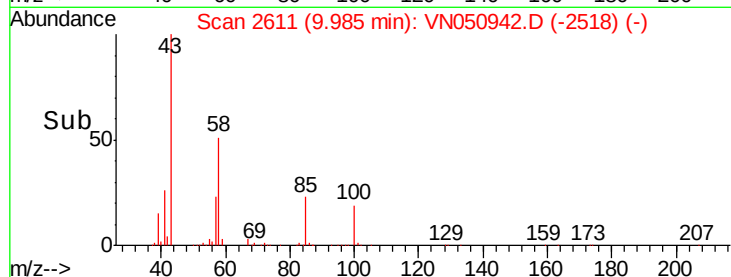
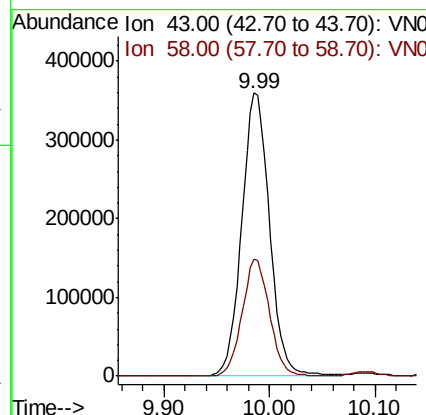
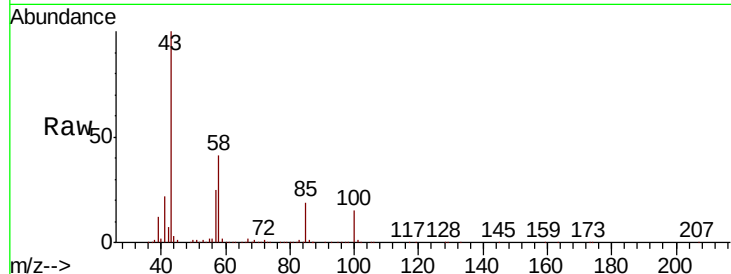
#51
4-Methyl-2-Pentanone
Concen: 108.667 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion: 43 Resp: 654672
Ion Ratio Lower Upper
43 100
58 40.9 32.4 48.6

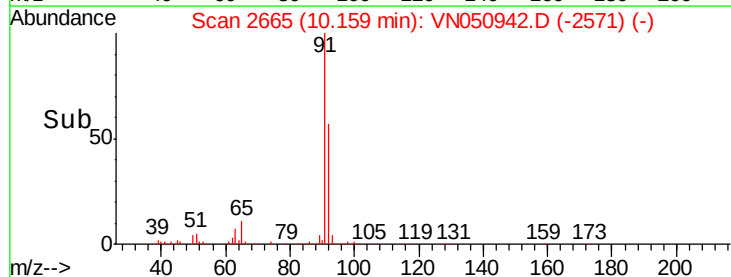
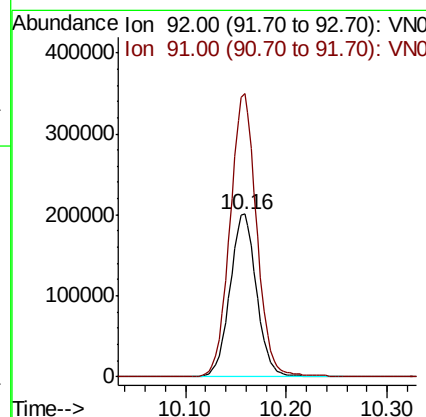
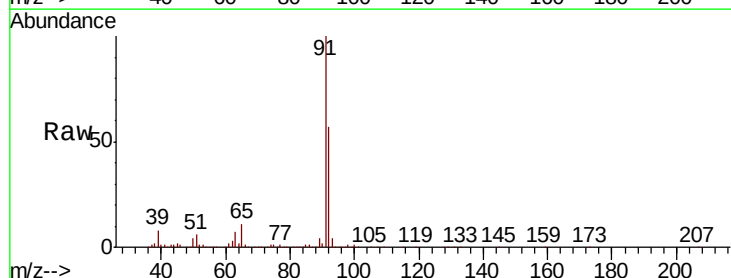
Manual Integrations
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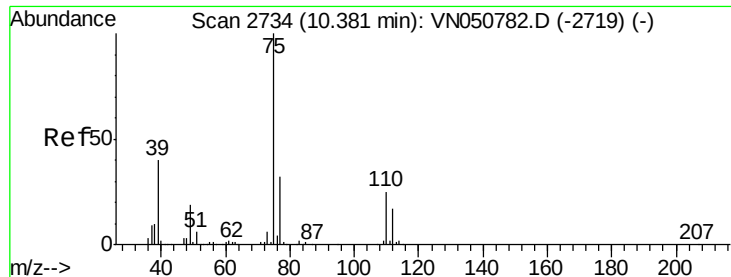
MMDadoda
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#52
Toluene
Concen: 20.181 ug/l
RT: 10.16 min Scan# 2665
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion: 92 Resp: 368497
Ion Ratio Lower Upper
92 100
91 174.6 140.6 211.0





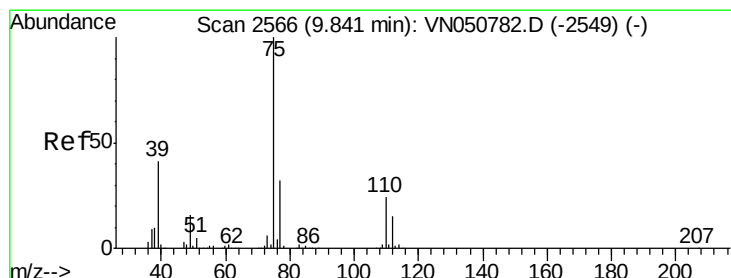
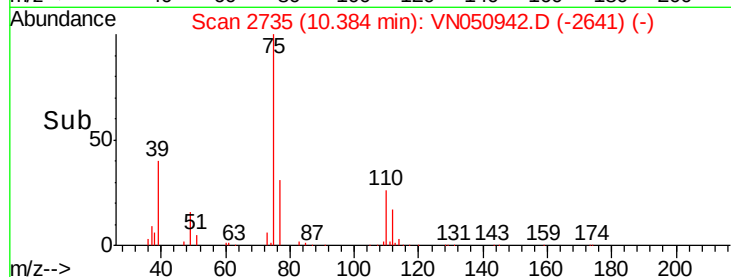
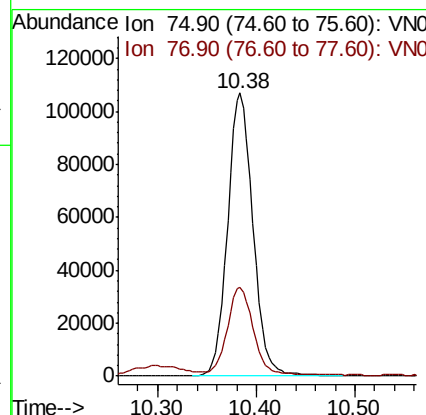
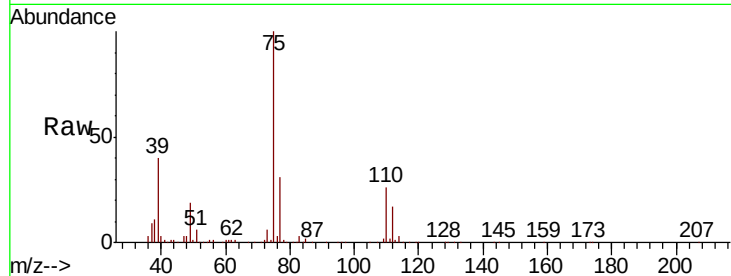
#53
t-1,3-Dichloropropene
Concen: 19.359 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampled :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.7	38.5

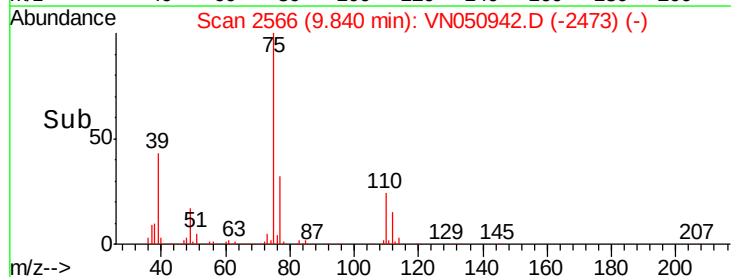
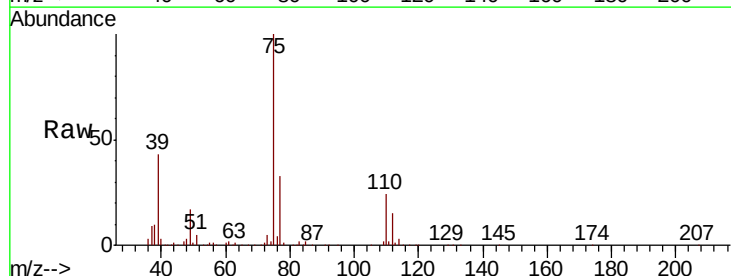
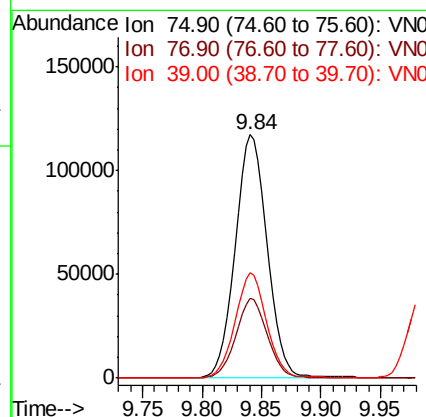
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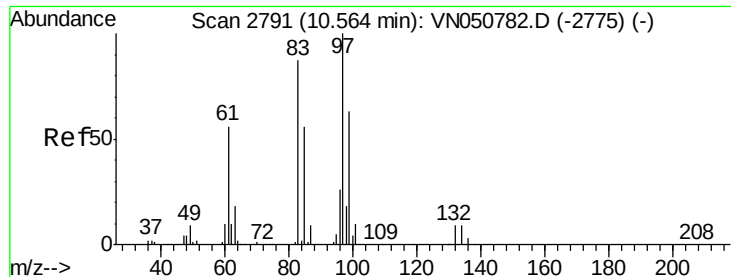
MMDadoda
8/30/2018 11:07:39 AM



#54
cis-1,3-Dichloropropene
Concen: 19.219 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.4	38.2
39	43.0	33.0	49.4





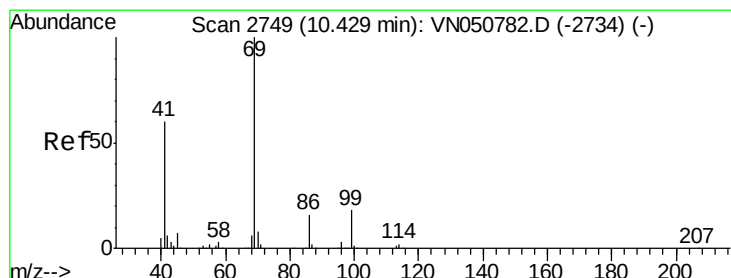
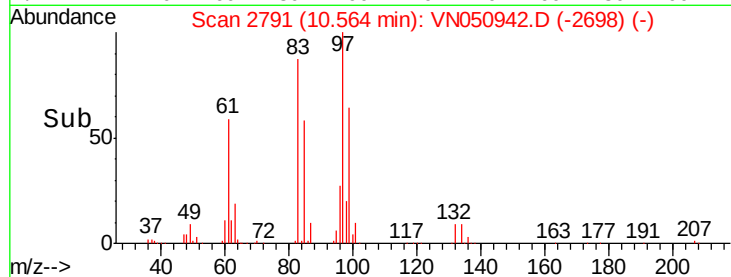
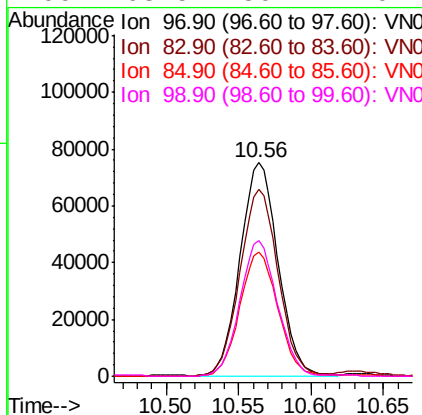
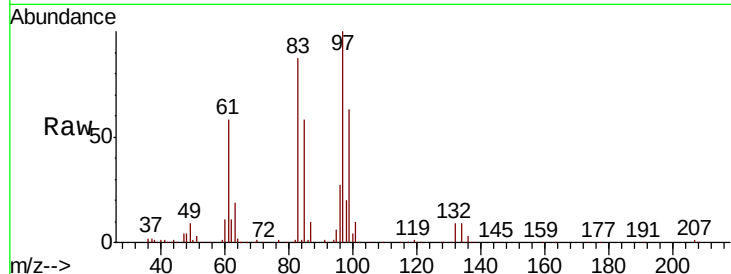
#55
 1,1,2-Trichloroethane
 Concen: 20.125 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		136390		
83	87.6	69.7	104.5		
85	58.2	44.5	66.7		
99	63.5	50.7	76.1		

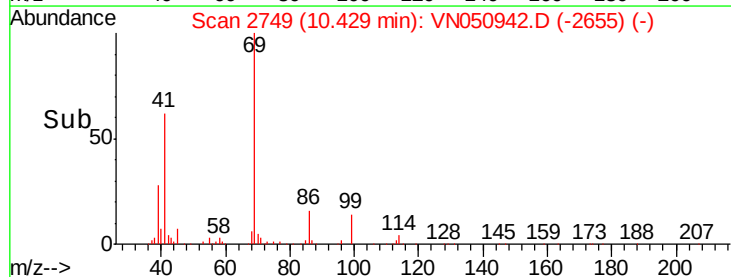
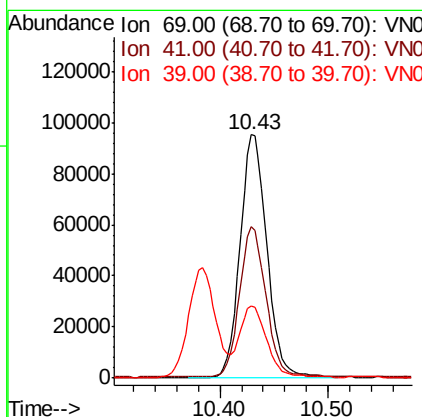
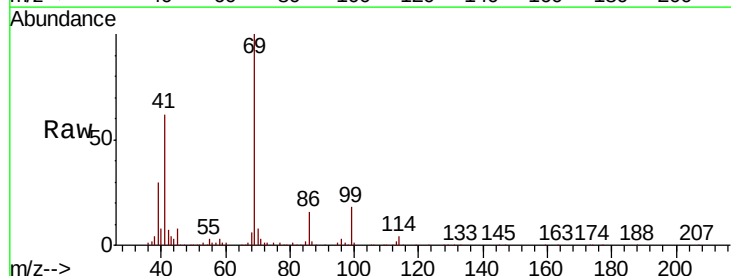
Manual Integrations
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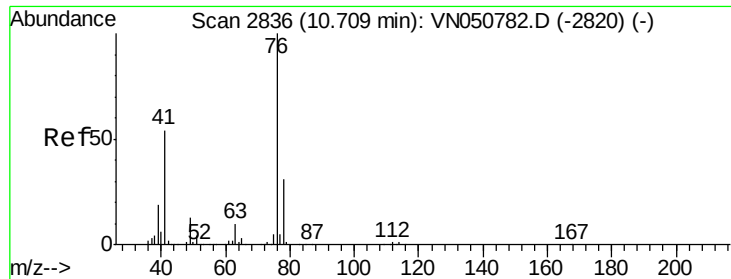
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 8/30/2018 11:07:39 AM



#56
 Ethyl methacrylate
 Concen: 20.156 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		164718		
41	59.9	48.3	72.5		
39	29.5	24.0	36.0		





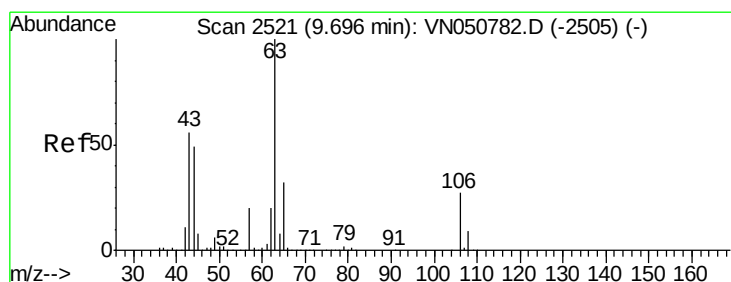
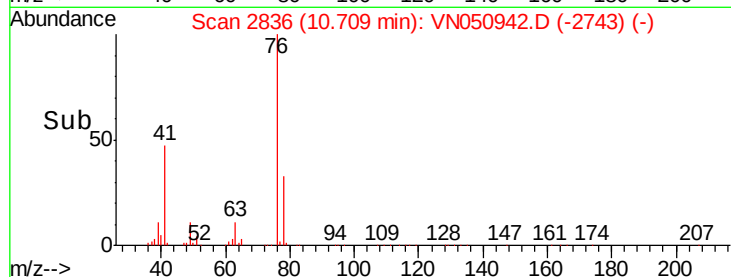
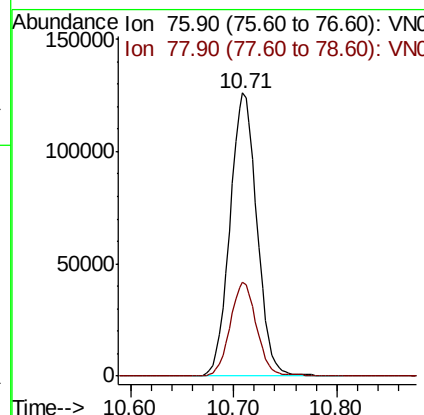
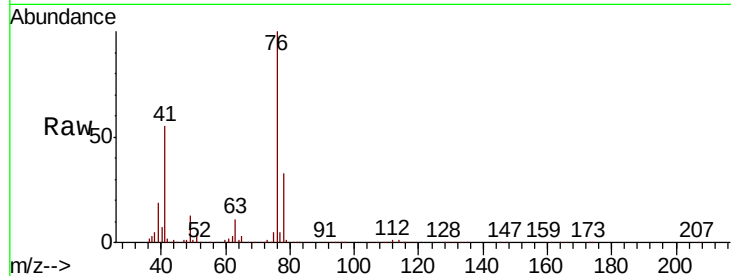
#57
 1,3-Dichloropropane
 Concen: 20.574 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.5	38.3

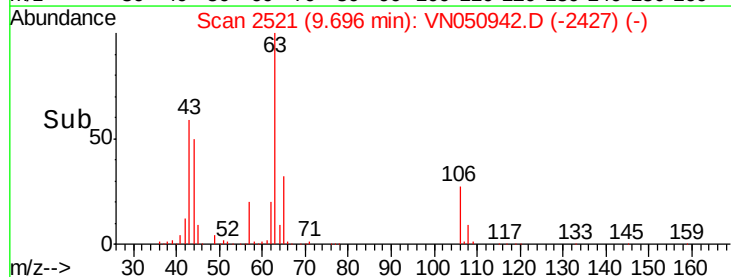
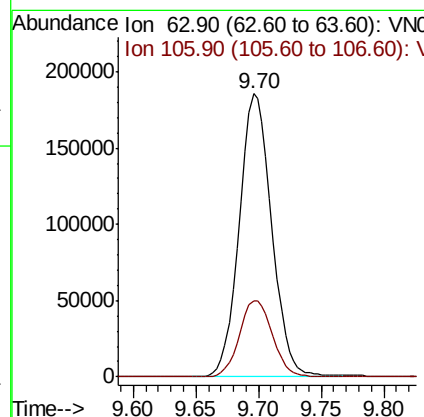
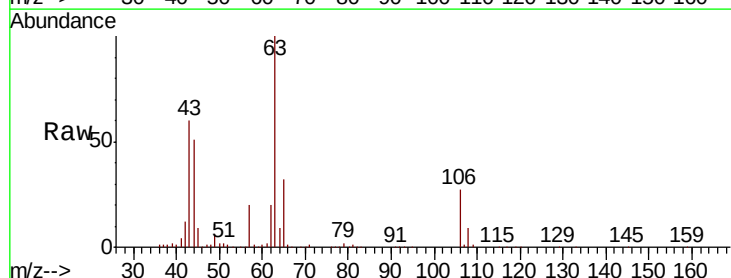
Manual Integrations
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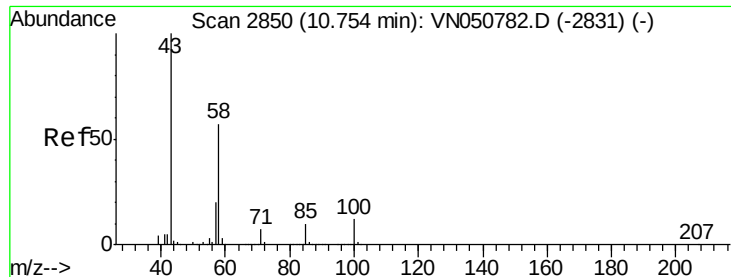
MMDadoda
 8/30/2018 11:07:39 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.676 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.9	32.9





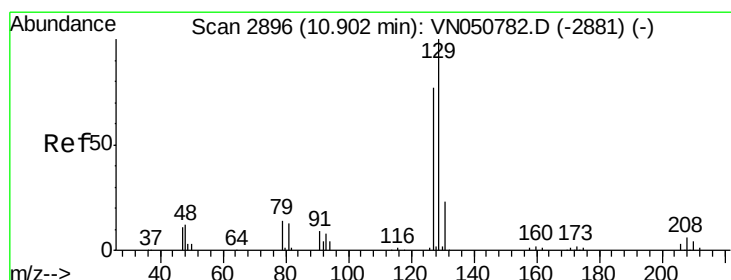
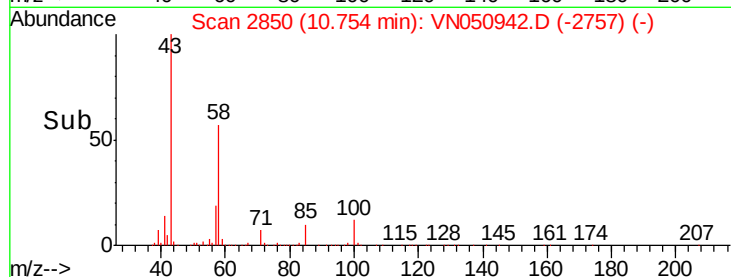
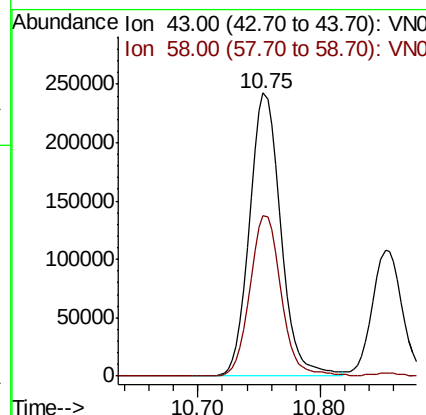
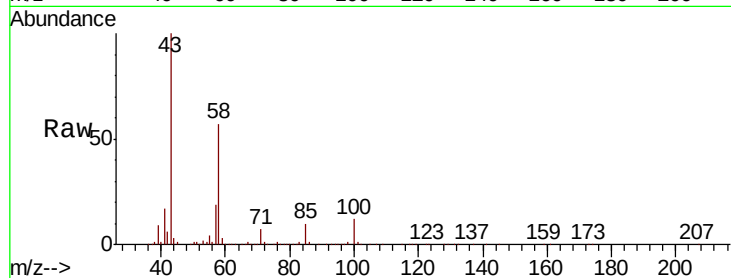
#59
2-Hexanone
Concen: 105.820 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.8	28.3	85.0

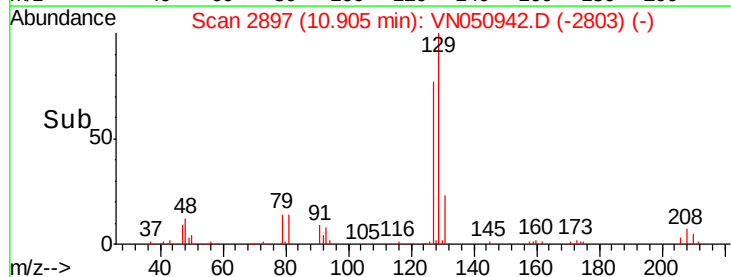
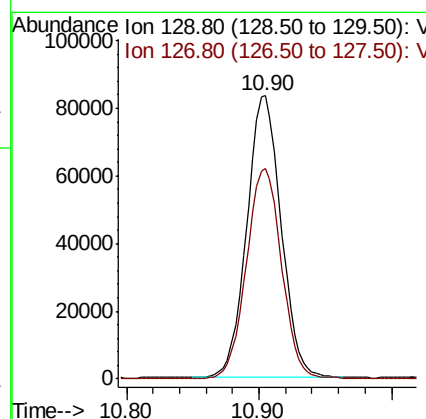
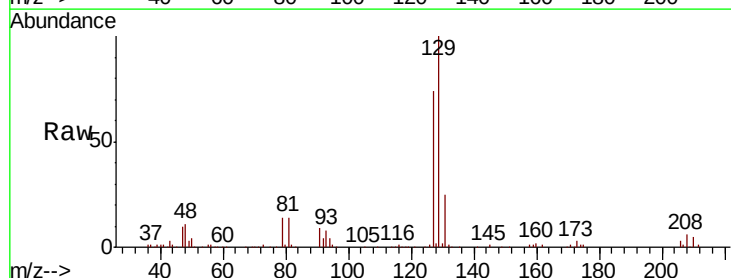
Manual Integrations
APPROVED

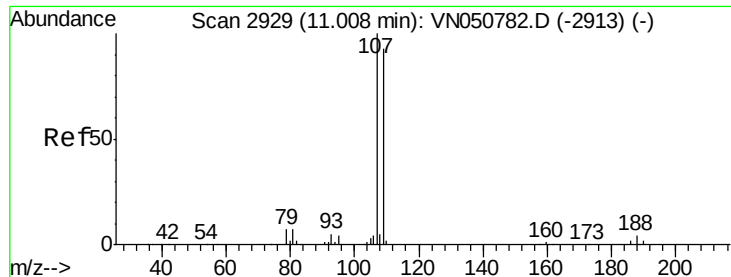
MMDadoda
8/30/2018 11:07:39 AM



#60
Dibromochloromethane
Concen: 19.758 ug/l
RT: 10.90 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.3	114.9





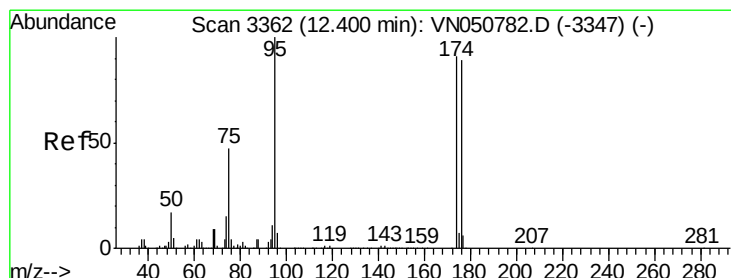
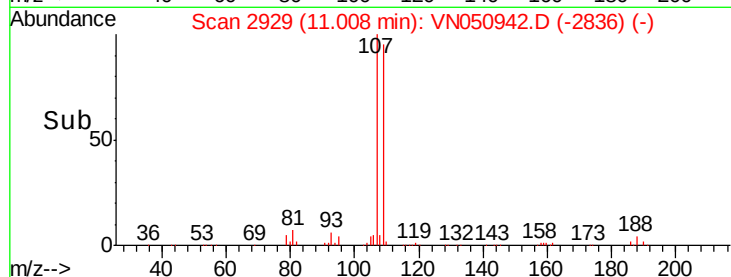
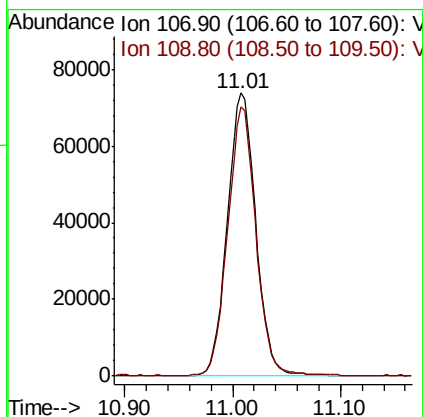
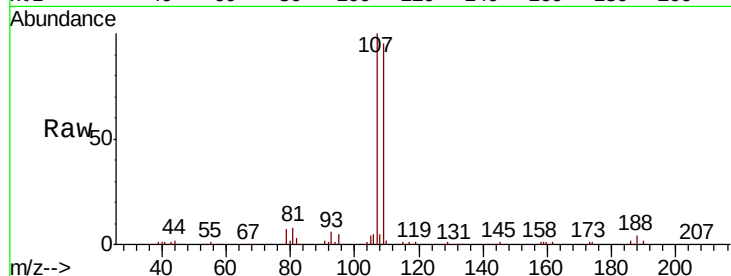
#61
 1,2-Dibromoethane
 Concen: 20.759 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.4	75.4	113.2

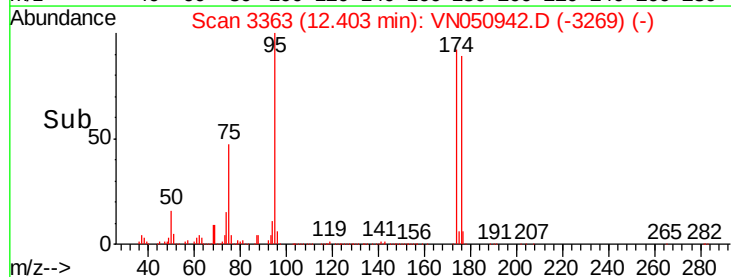
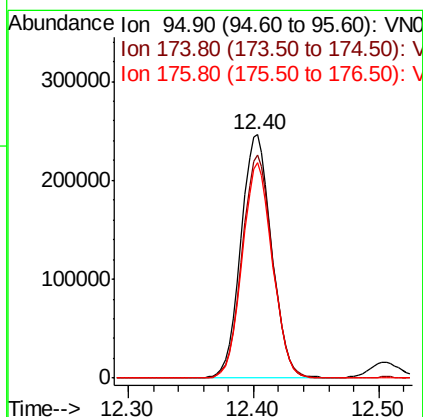
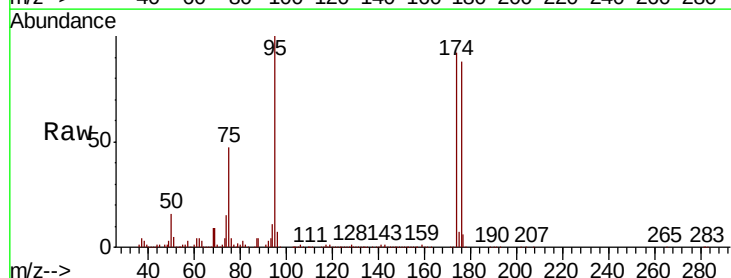
Manual Integrations
 APPROVED

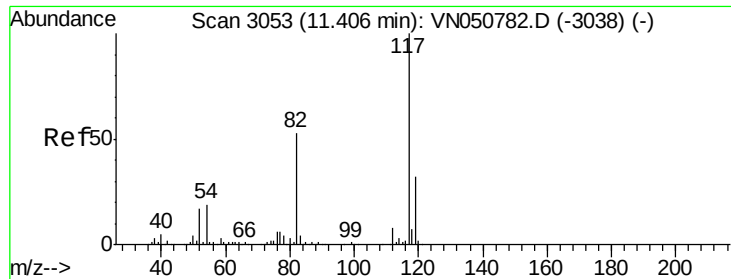
MMDadoda
 8/30/2018 11:07:39 AM



#62
 4-Bromofluorobenzene
 Concen: 48.632 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.5	0.0	183.0
176	87.5	0.0	178.8





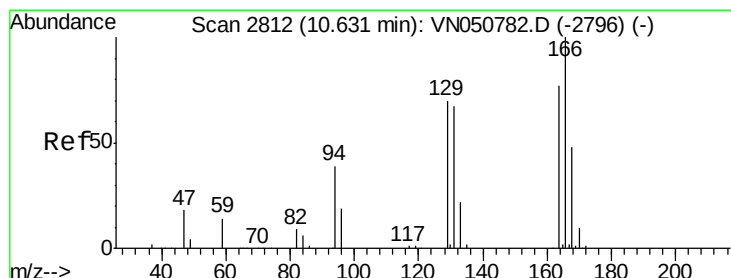
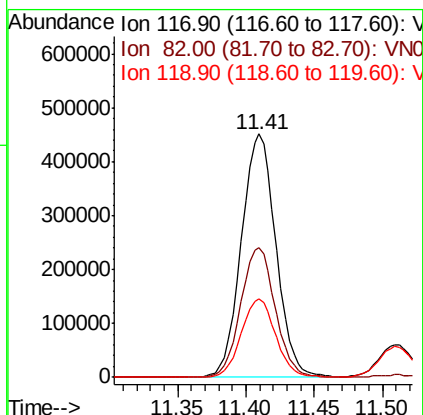
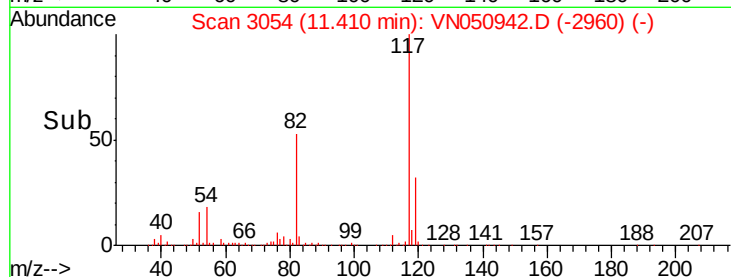
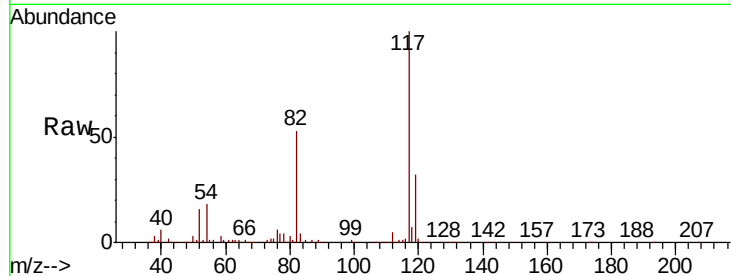
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.6	64.0
119	32.2	25.8	38.6

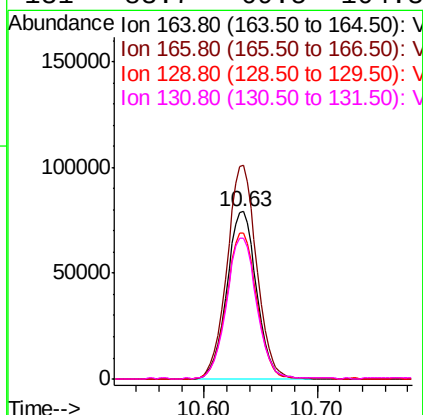
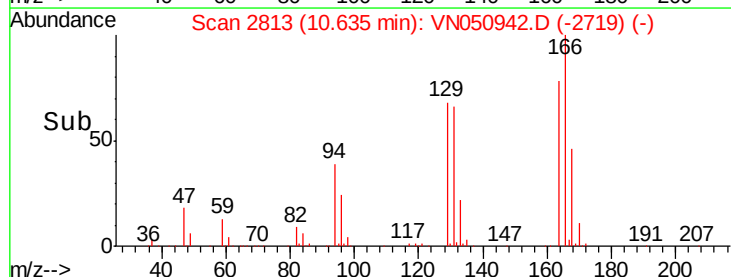
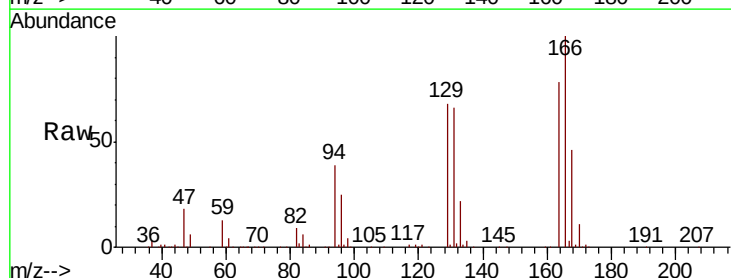
Manual Integrations
APPROVED

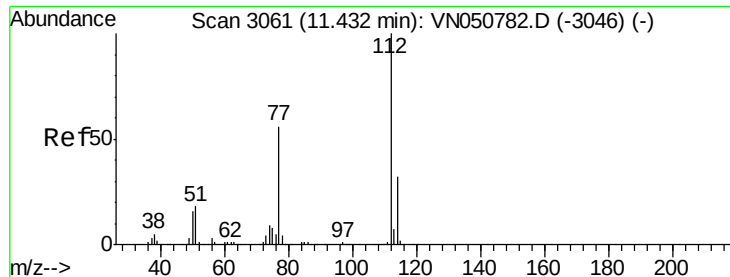
MMDadoda
8/30/2018 11:07:39 AM



#64
Tetrachloroethene
Concen: 19.126 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.7	103.5	155.3
129	86.8	72.7	109.1
131	83.7	69.5	104.3





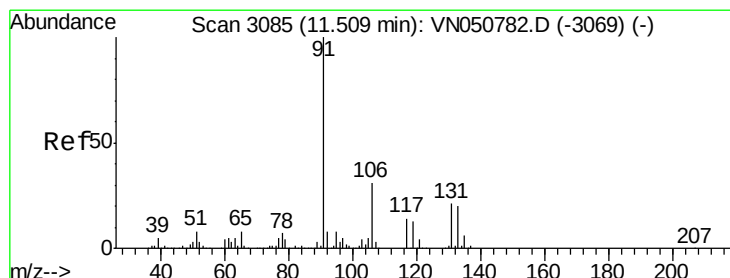
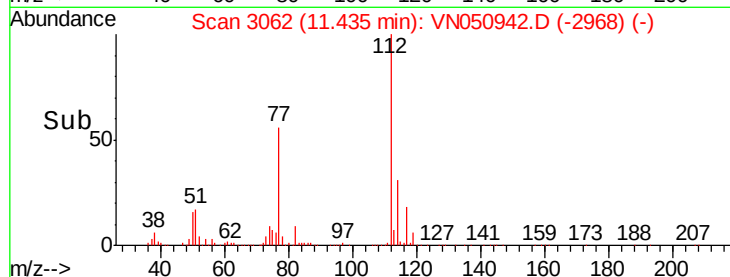
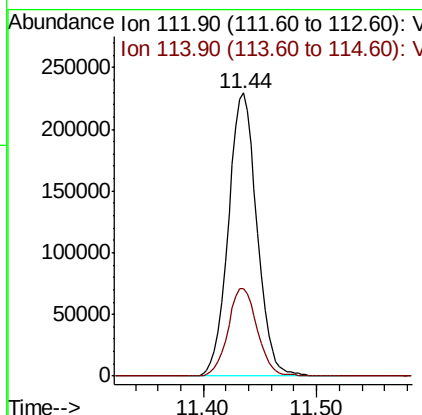
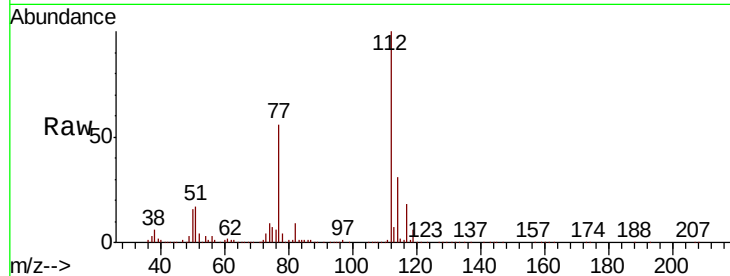
#65
Chlorobenzene
Concen: 19.394 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion:112 Resp: 402456
Ion Ratio Lower Upper
112 100
114 30.8 25.6 38.4

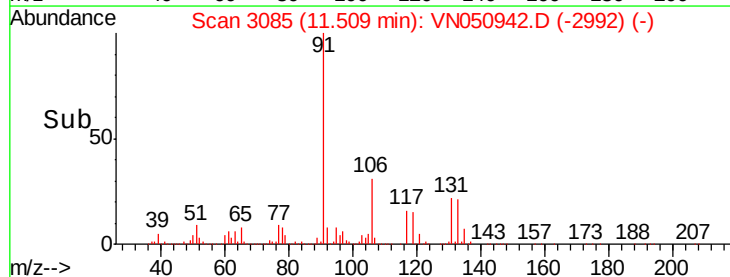
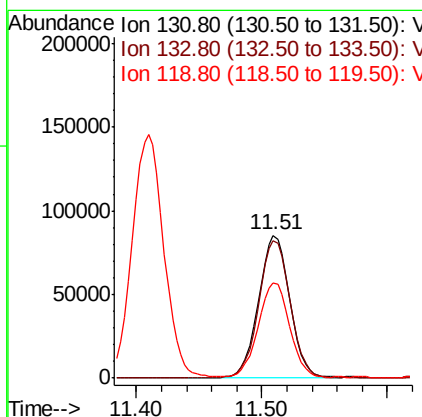
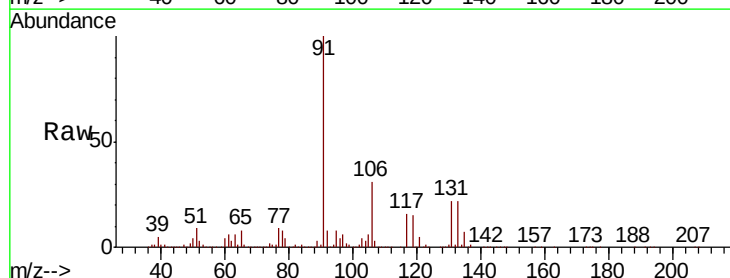
Manual Integrations
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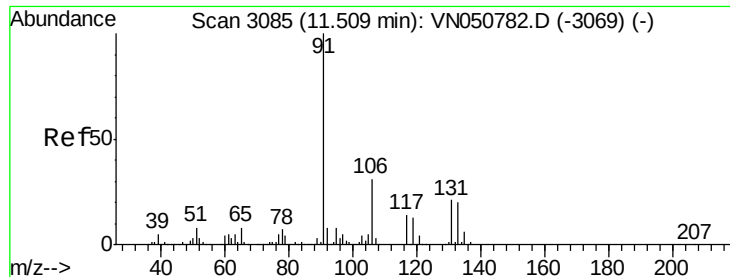
MMDadoda
8/30/2018 11:07:39 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.389 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion:131 Resp: 147210
Ion Ratio Lower Upper
131 100
133 96.7 47.4 142.3
119 66.2 32.8 98.4





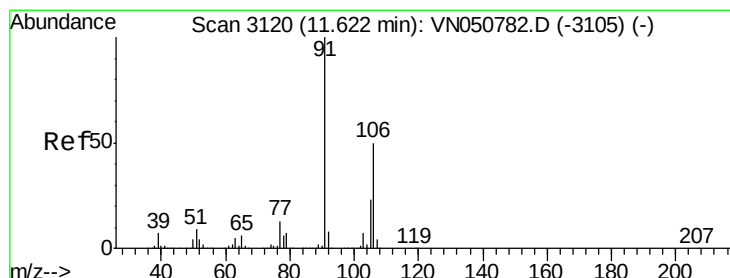
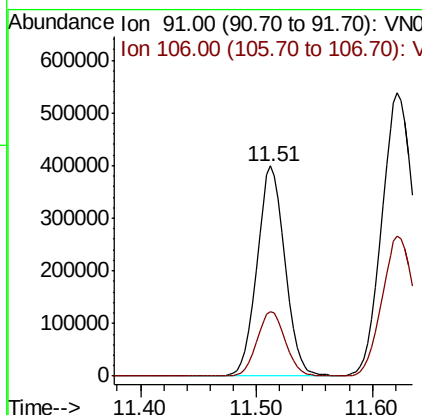
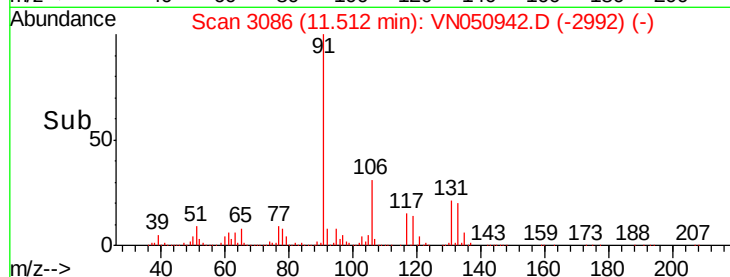
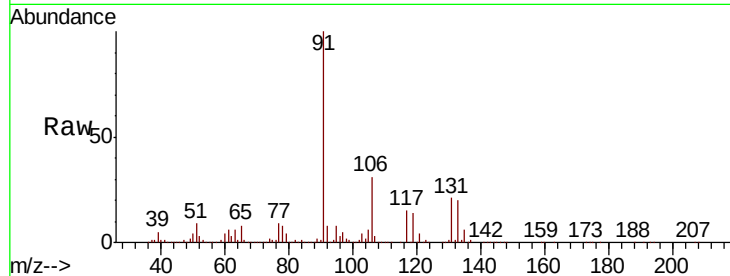
#67
Ethyl Benzene
Concen: 19.804 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampled :
VN0829MBSD01

Tot Ion: 91 Resp: 668104
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.4

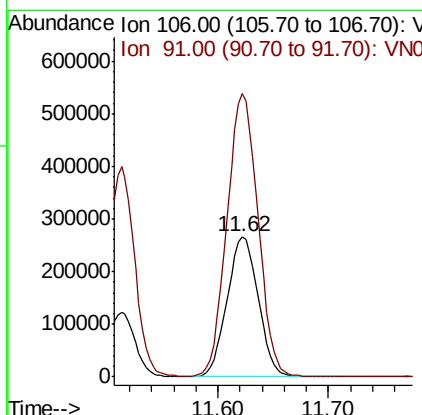
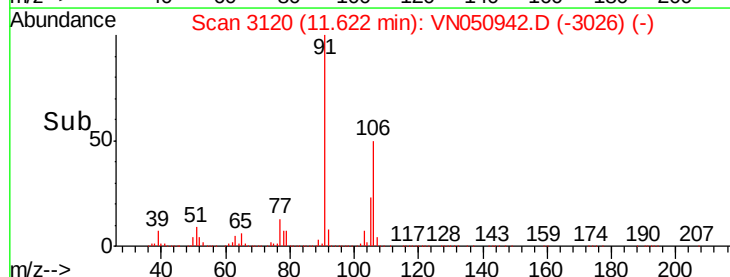
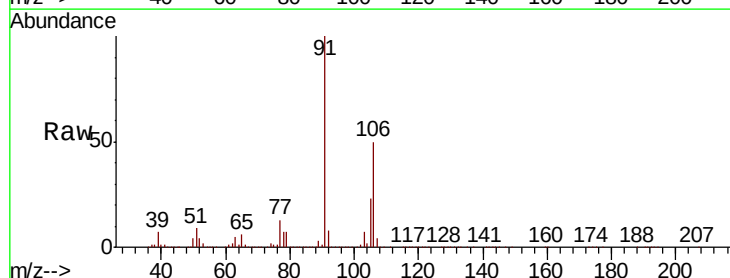
Manual Integrations
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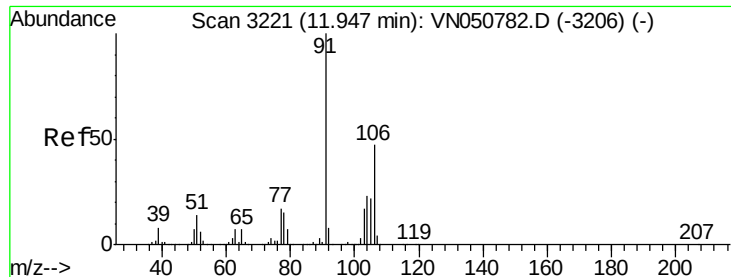
MMDadoda
8/30/2018 11:07:39 AM



#68
m/p-Xylenes
Concen: 40.596 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion: 106 Resp: 519840
Ion Ratio Lower Upper
106 100
91 201.3 161.0 241.6





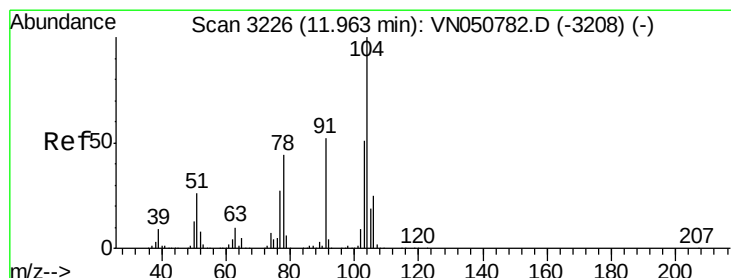
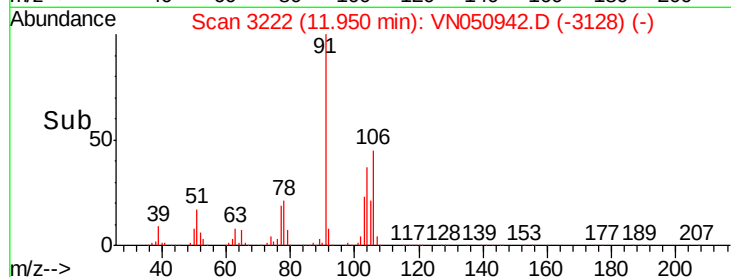
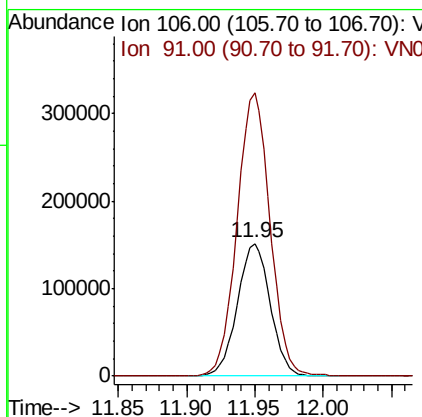
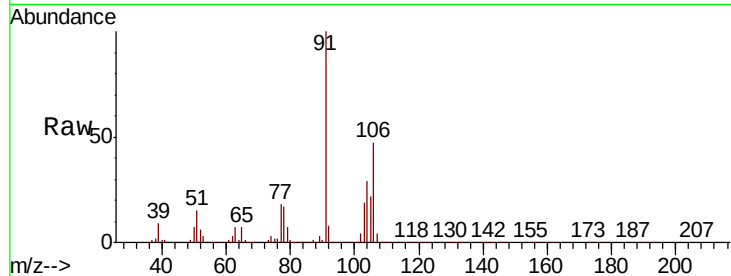
#69
o-Xylene
Concen: 20.496 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.8	106.5	319.5

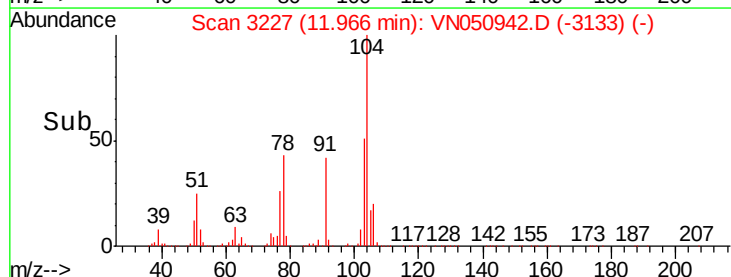
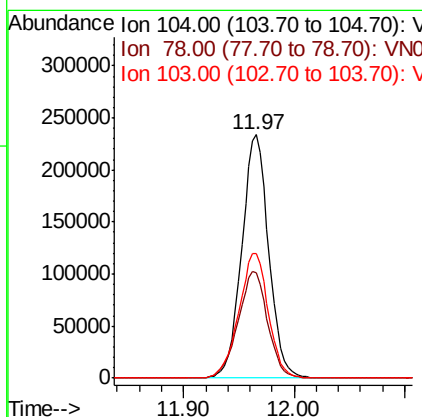
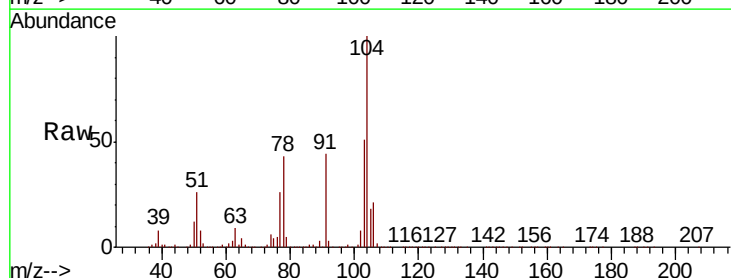
Manual Integrations
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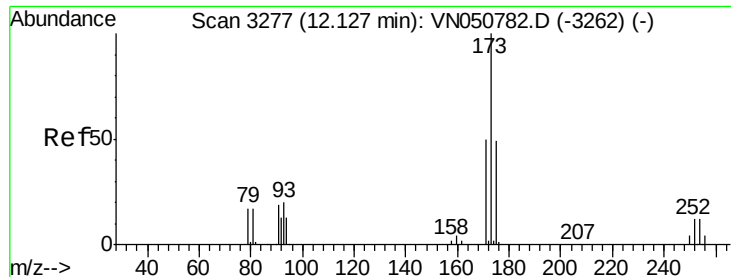
MMDadoda
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#70
Styrene
Concen: 18.875 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.5	38.2	57.4
103	56.2	44.4	66.6





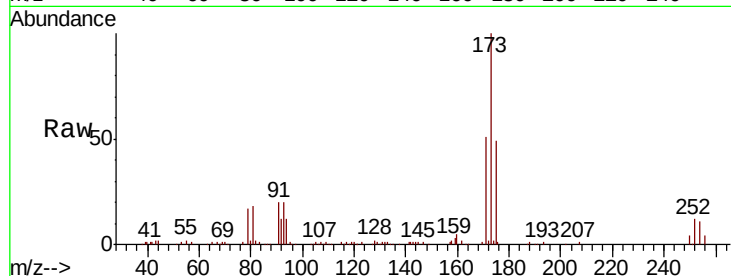
#71
Bromoform
Concen: 20.501 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.4	73.4
254	0.0	0.1	0.1#

Manual Integrations
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8/30/2018 11:07:39 AM

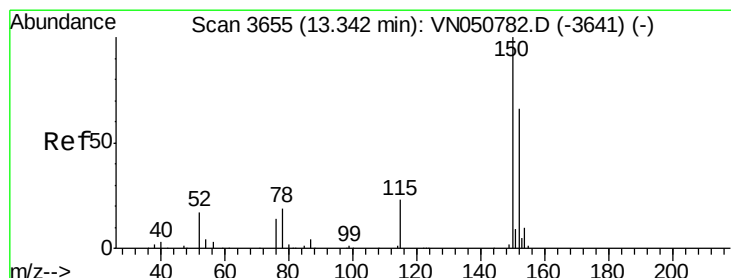
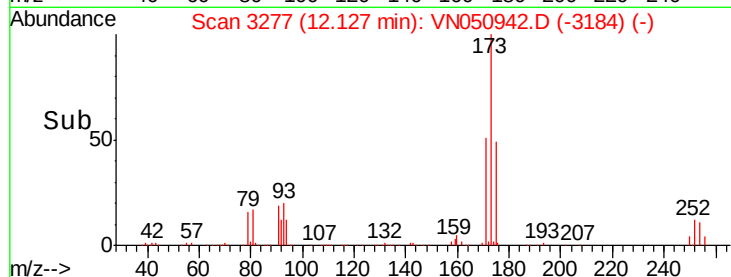
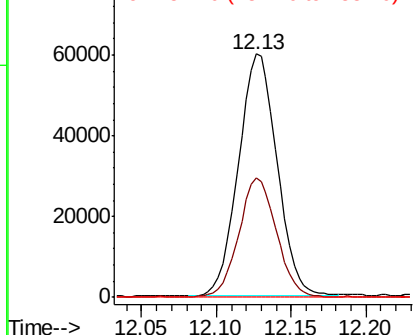


Abundance

Ion 172.70 (172.40 to 173.40): V

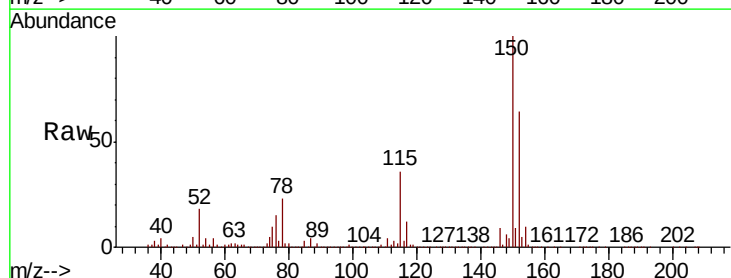
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	27.8	83.4
150	162.5	0.0	351.4

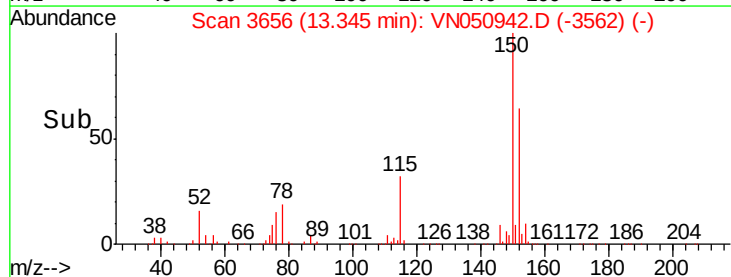
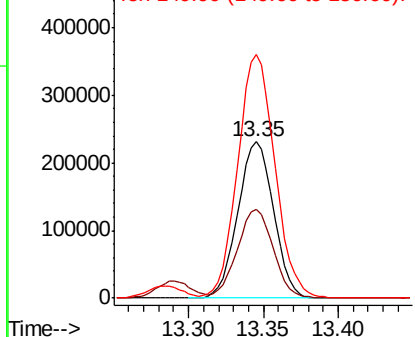


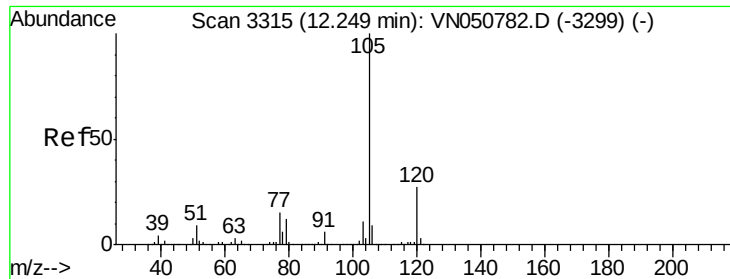
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





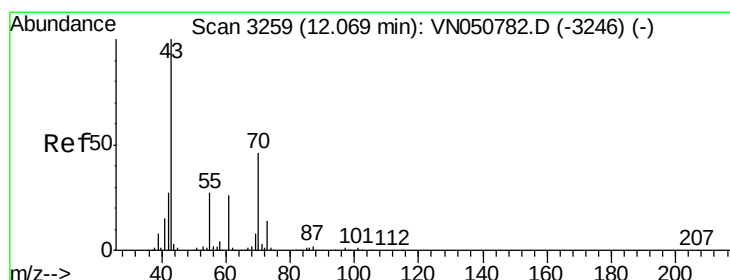
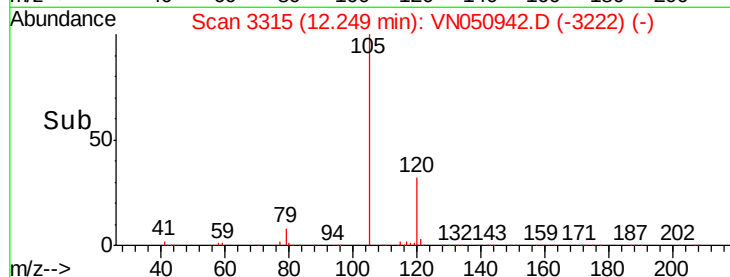
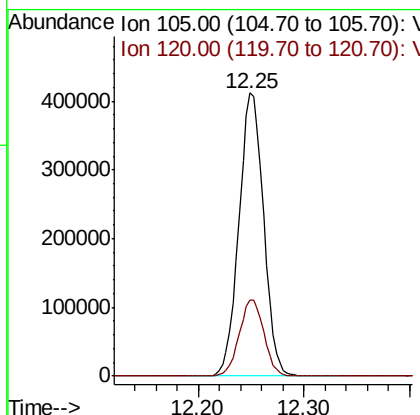
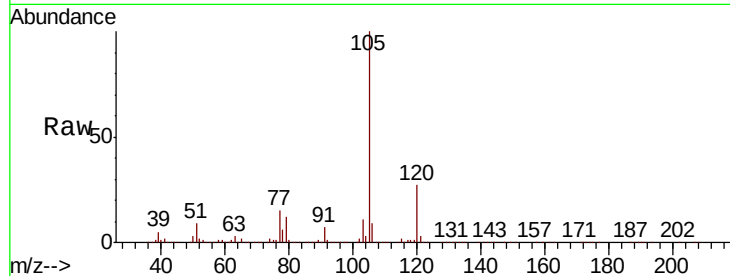
#73
Isopropylbenzene
Concen: 20.971 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

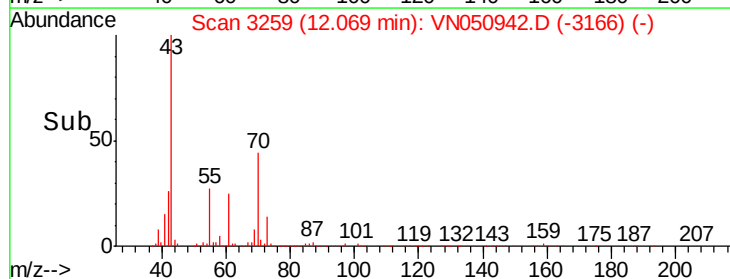
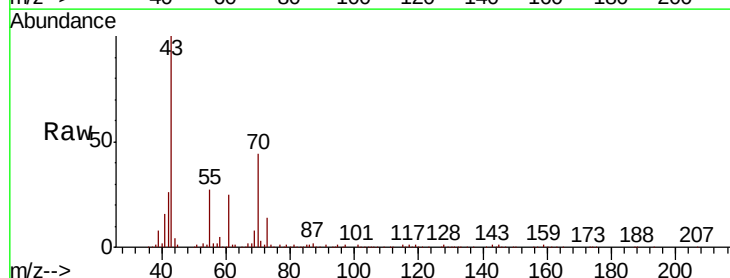
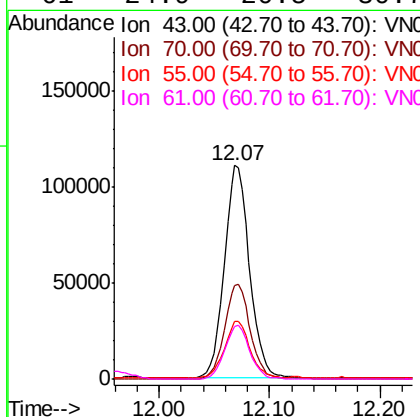
Manual Integrations
APPROVED

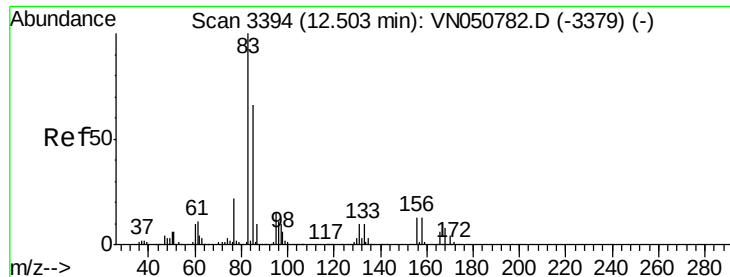
MMDadoda
8/30/2018 11:07:39 AM



#74
N-ethyl acetate
Concen: 22.000 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.1	36.2	54.2
55	26.4	21.8	32.8
61	24.9	20.5	30.7





#75

1,1,2,2-Tetrachloroethane

Concen: 22.932 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

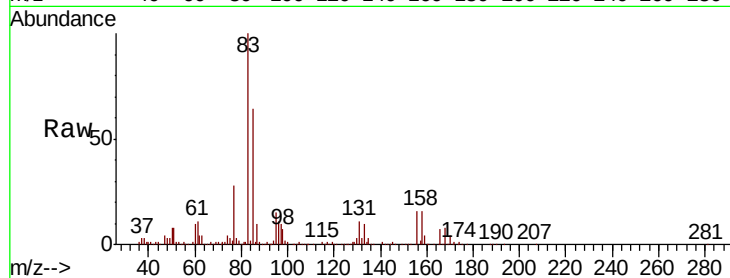
ClientSampleId :

VN0829MBSD01

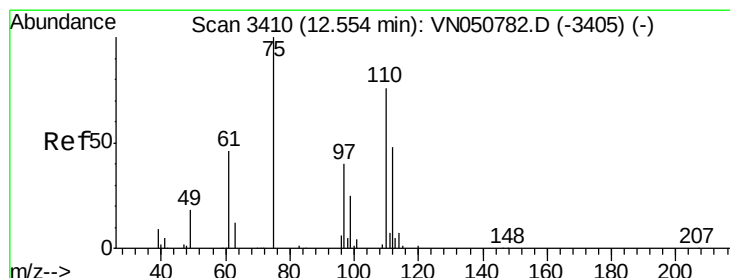
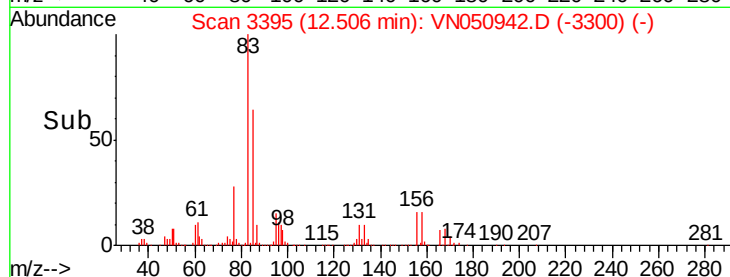
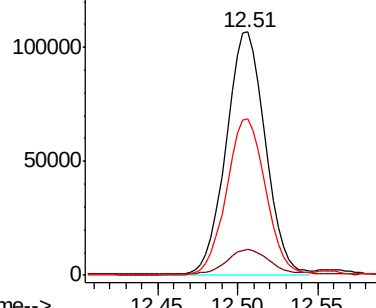
Tot Ion:	83	Resp:	180129
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.3	15.9
85	64.6	31.9	95.7

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN050782.D (-3379) (-)



#76

1,2,3-Trichloropropane

Concen: 22.361 ug/l m

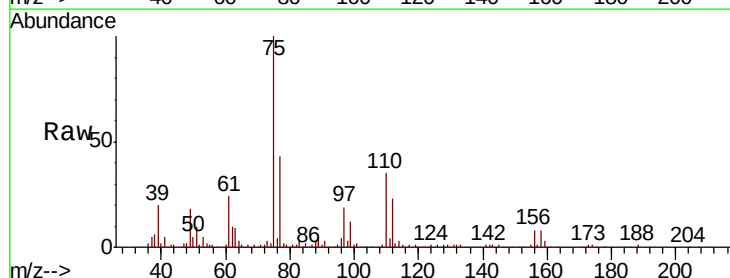
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

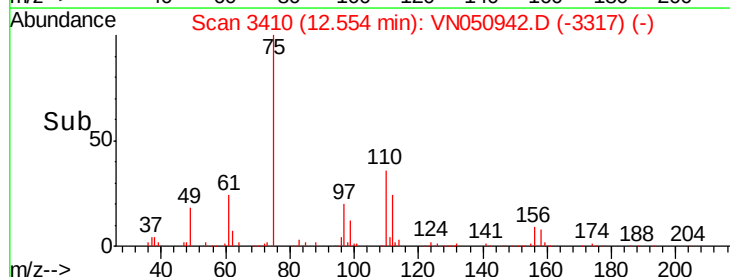
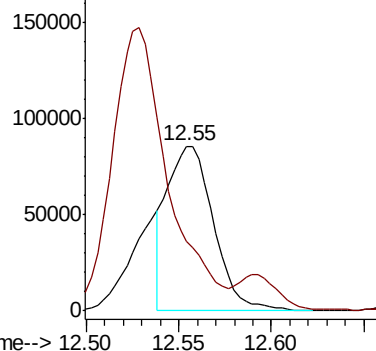
Lab File: VN050942.D

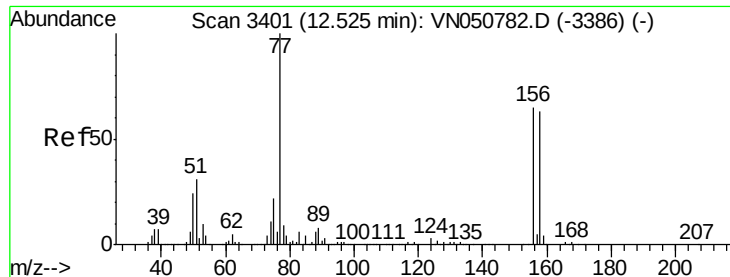
Acq: 29 Aug 2018 11:35

Tgt Ion:	75	Resp:	150039
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3405) (-)





#77

Bromobenzene

Concen: 19.950 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

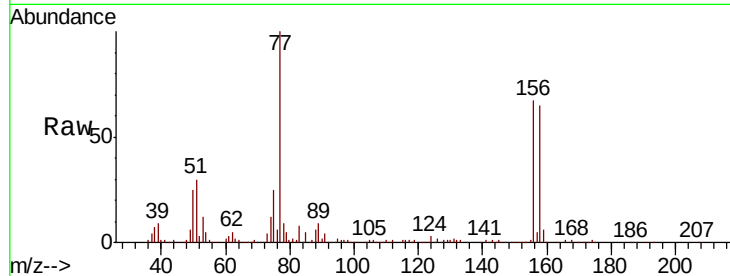
ClientSampleId :

VN0829MBSD01

Tot Ion:	156	Resp:	171997
Ion Ratio	Lower	Upper	
156	100		
77	178.1	89.9	269.7
158	97.1	49.3	147.9

Manual Integrations
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

200000

150000

100000

50000

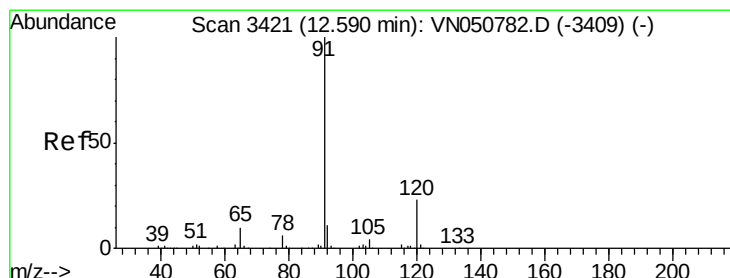
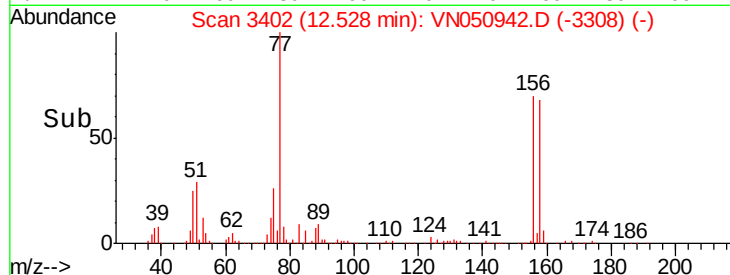
0

12.53

12.50

12.60

Time-->



#78

n-propylbenzene

Concen: 20.768 ug/l

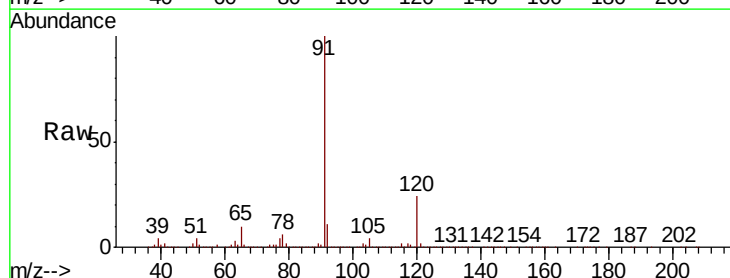
RT: 12.59 min Scan# 3422

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Tgt Ion:	91	Resp:	735961
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.7	35.0



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

200000

100000

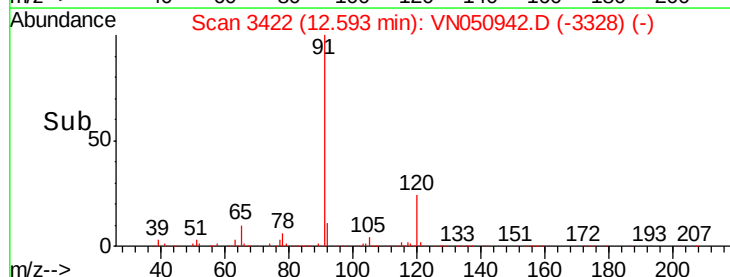
0

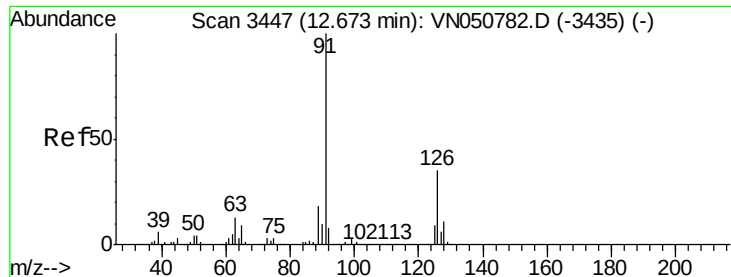
12.59

12.55

12.65

Time-->





#79

2-Chlorotoluene

Concen: 20.441 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBSD01

Tot Ion: 91 Resp: 451203

Ion Ratio Lower Upper

91 100

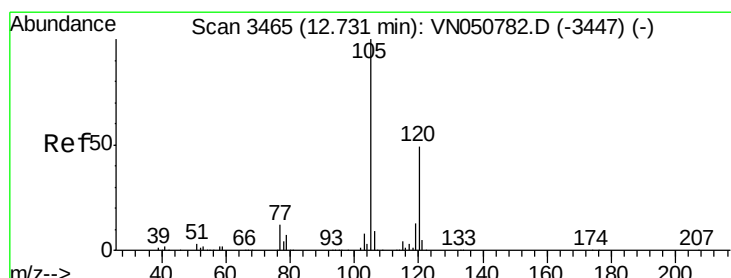
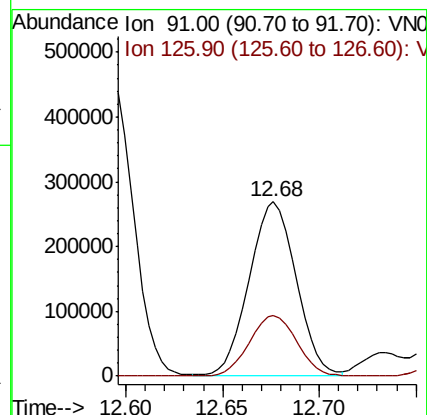
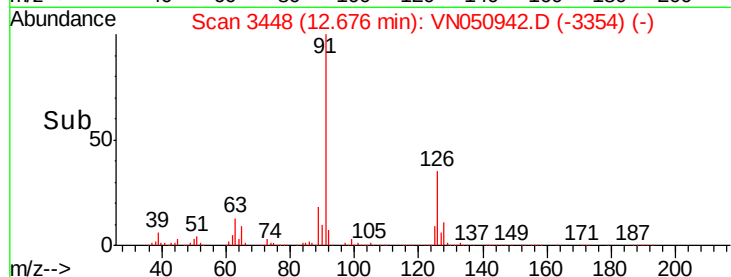
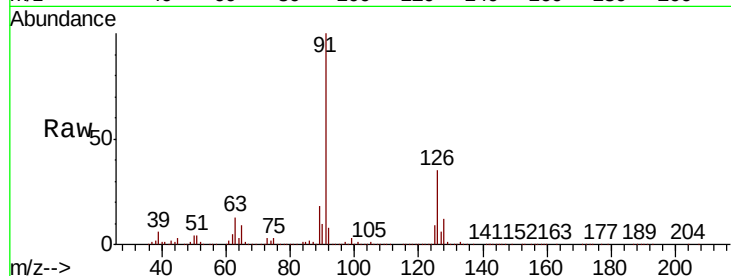
126 35.5 17.8 53.3

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 21.641 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050942.D

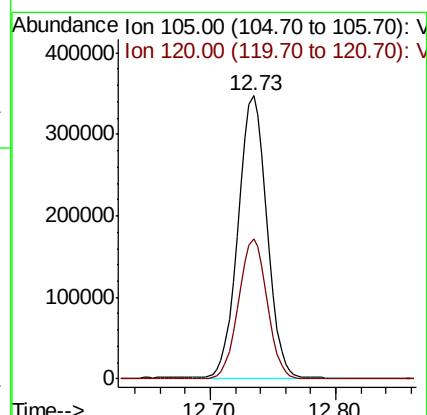
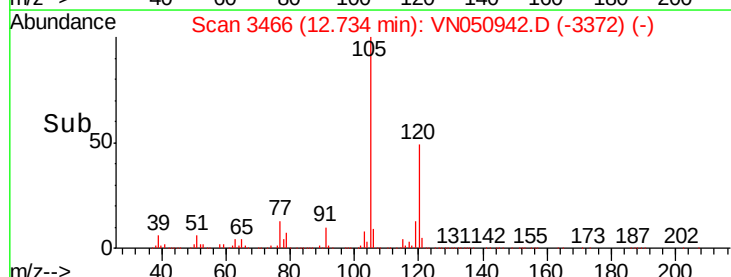
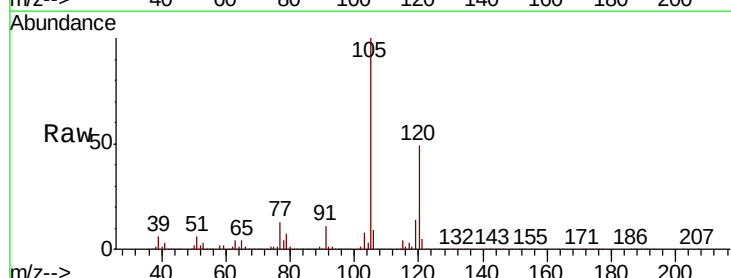
Acq: 29 Aug 2018 11:35

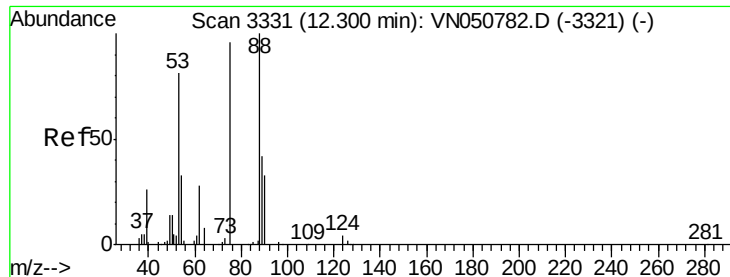
Tgt Ion: 105 Resp: 553933

Ion Ratio Lower Upper

105 100

120 48.9 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 20.498 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

ClientSampleId :

VN0829MBSD01

Tot Ion: 75 Resp: 40685

Ion Ratio Lower Upper

75 100

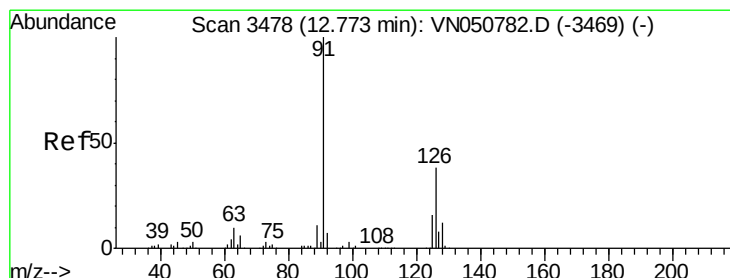
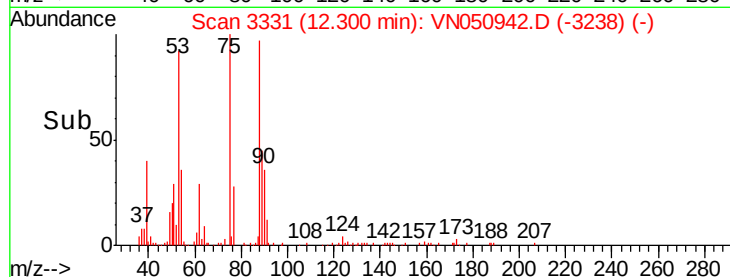
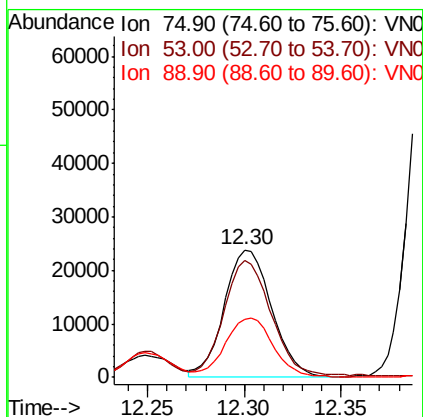
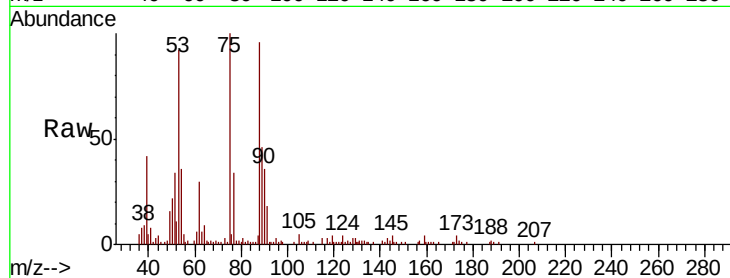
53 88.8 68.9 103.3

89 47.0 36.1 54.1

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#82

4-Chlorotoluene

Concen: 20.054 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050942.D

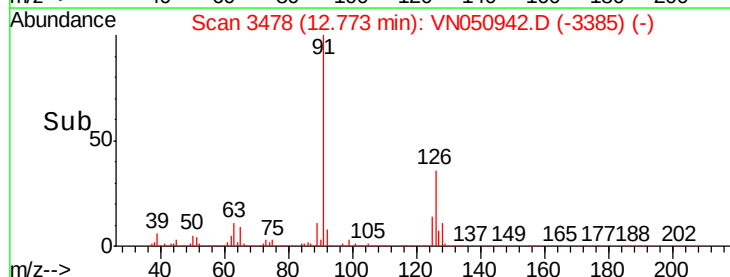
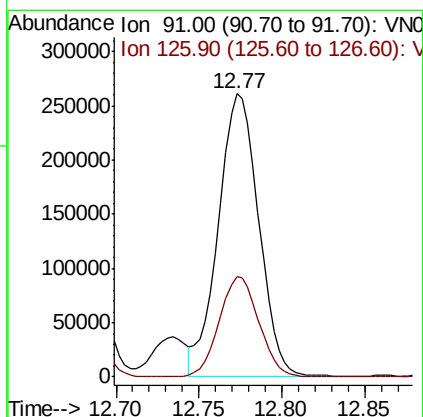
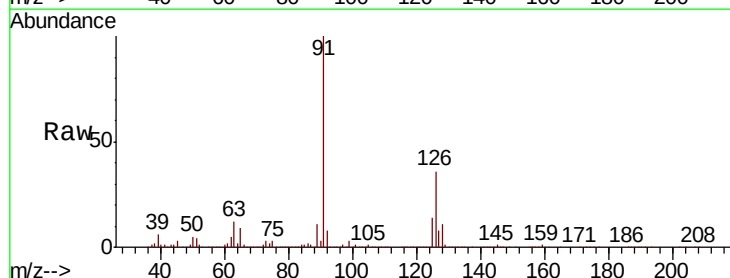
Acq: 29 Aug 2018 11:35

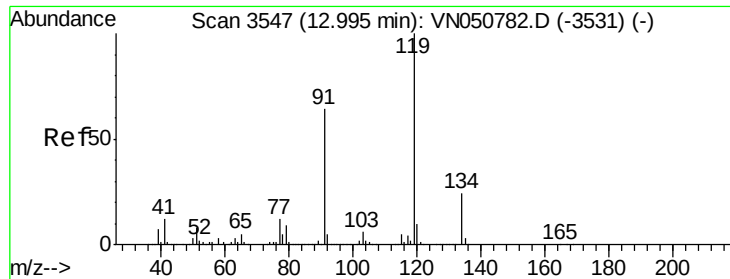
Tgt Ion: 91 Resp: 437000

Ion Ratio Lower Upper

91 100

126 35.2 17.5 52.5





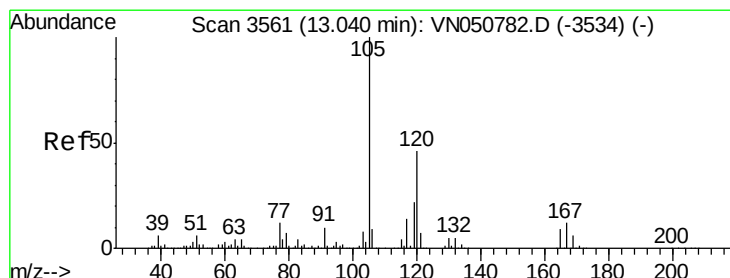
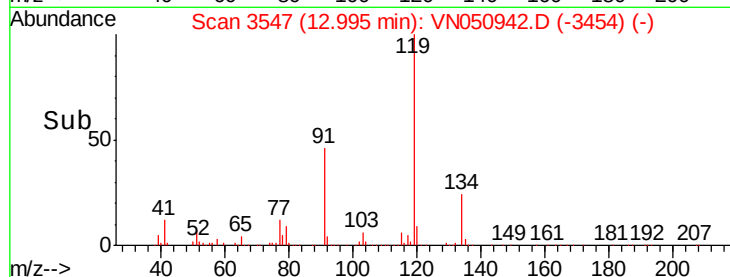
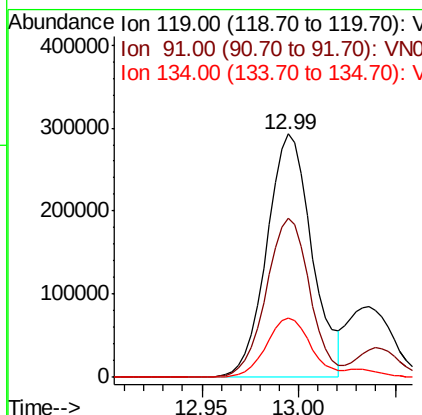
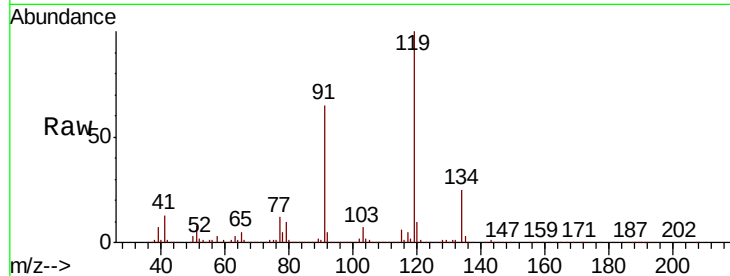
#83
 tert-Butylbenzene
 Concen: 21.335 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	472935		
91	63.3		31.6	94.7
134	24.4		13.4	40.1

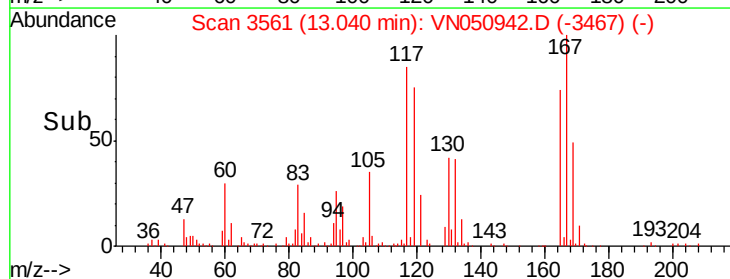
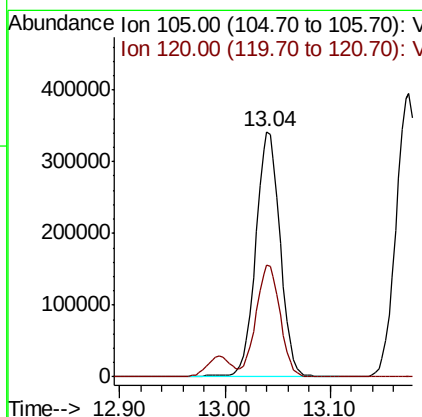
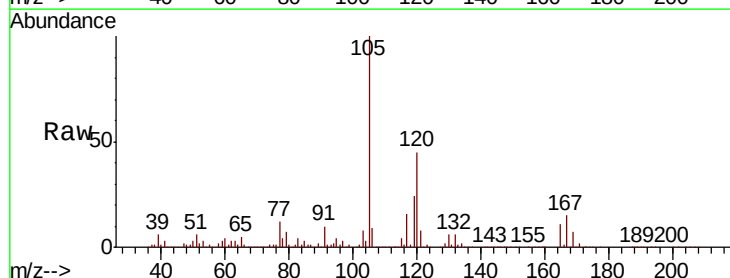
Manual Integrations
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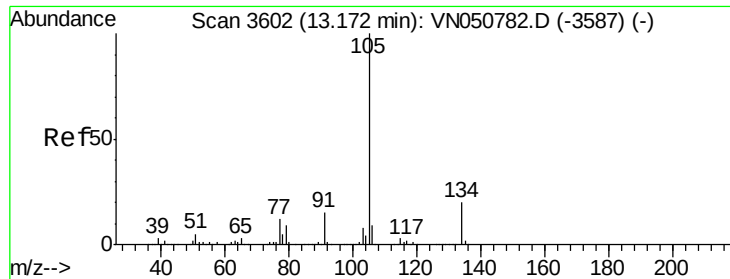
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.326 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	549088		
120	44.9		22.9	68.8





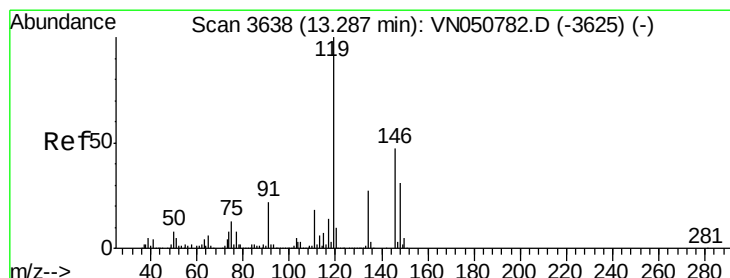
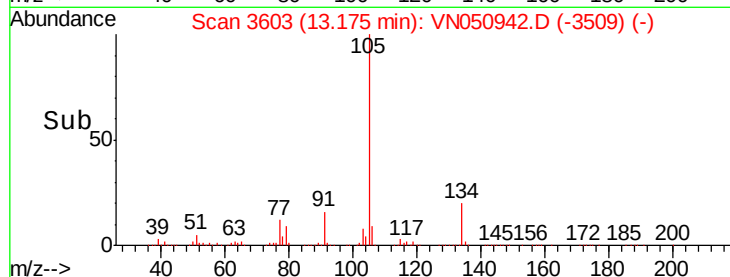
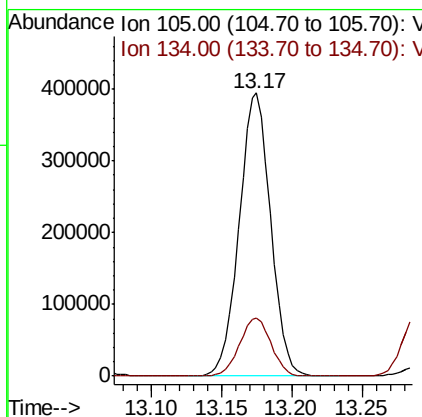
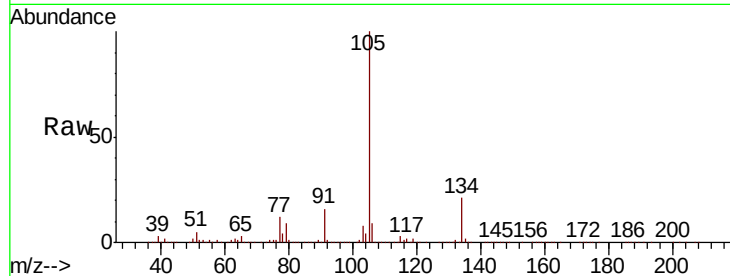
#85
 sec-Butylbenzene
 Concen: 21.072 ug/l
 RT: 13.17 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.8

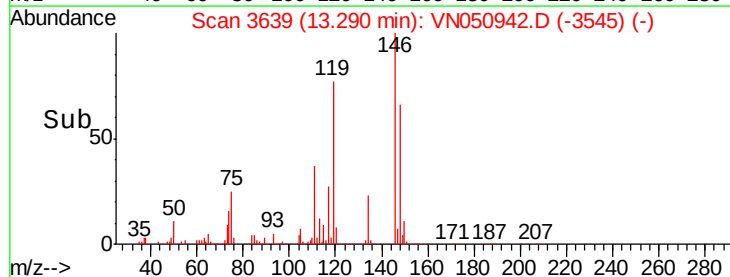
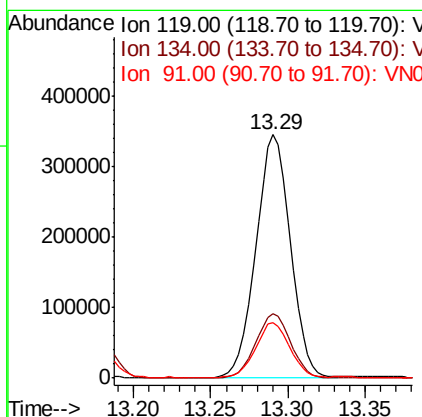
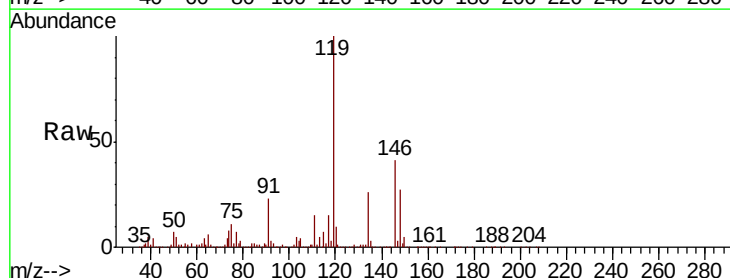
Manual Integrations
 APPROVED

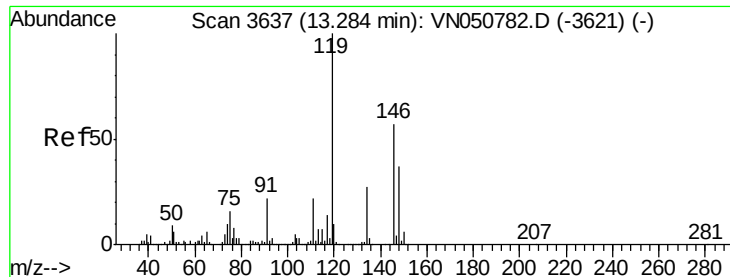
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#86
 p-Isopropyltoluene
 Concen: 21.516 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.7	41.0
91	22.3	11.2	33.5





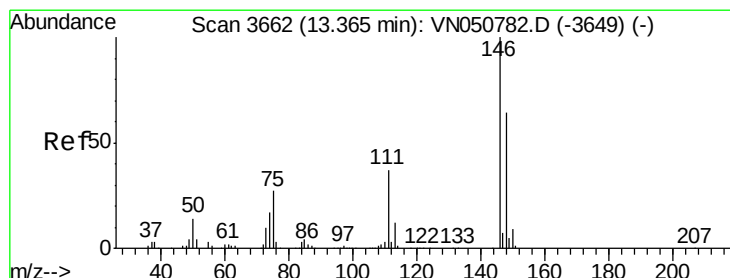
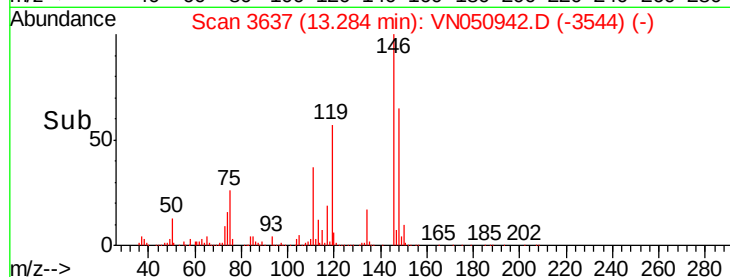
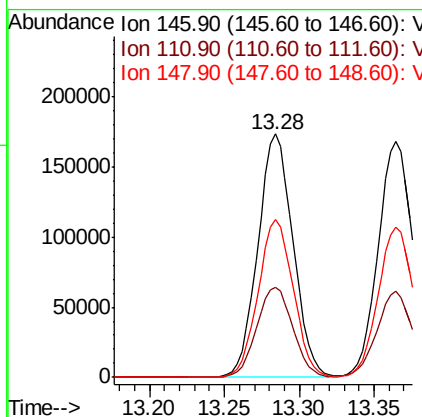
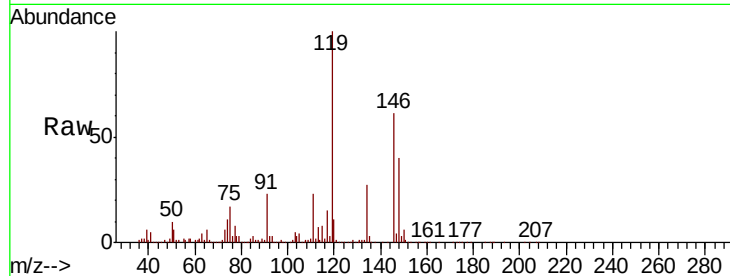
#87
 1,3-Dichlorobenzene
 Concen: 19.394 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.1	57.3
148	64.8	32.2	96.6

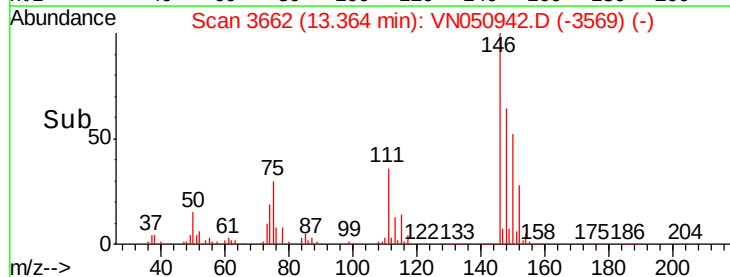
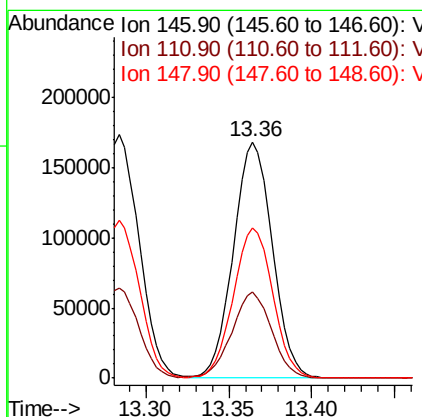
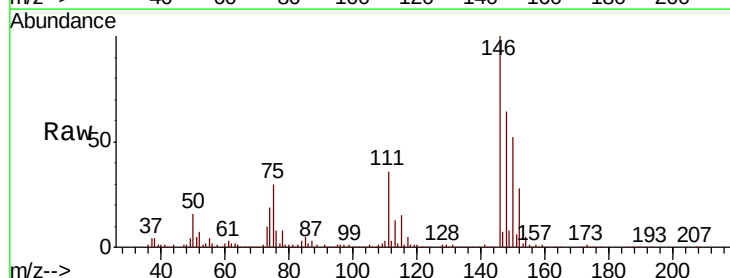
Manual Integrations
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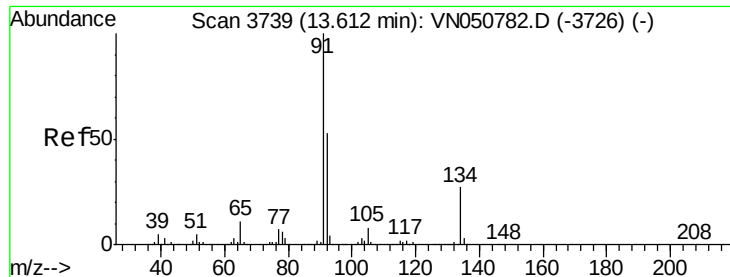
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#88
 1,4-Dichlorobenzene
 Concen: 19.085 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.8	56.3
148	64.2	32.2	96.6





#89

n-Butylbenzene

Concen: 20.294 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Instrument :

MSVOA_N

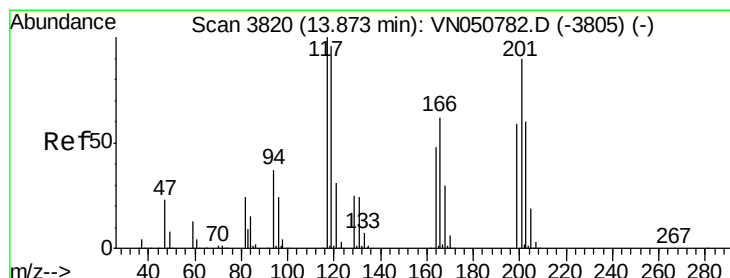
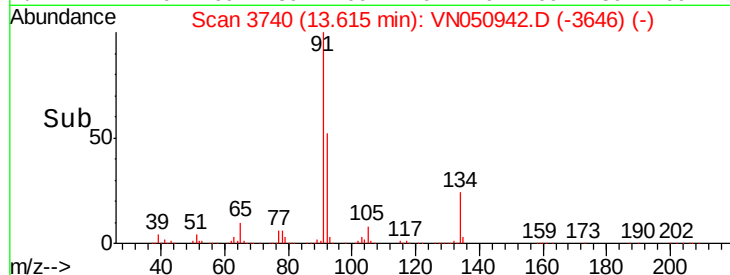
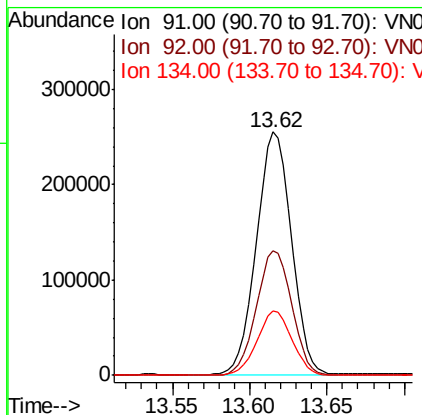
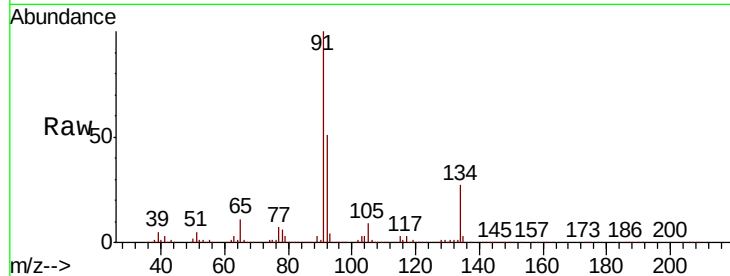
ClientSampleId :

VN0829MBSD01

Tot Ion:	91	Resp:	401728
Ion Ratio	Lower	Upper	
91	100		
92	51.8	26.1	78.2
134	26.2	13.2	39.6

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#90

Hexachloroethane

Concen: 20.124 ug/l

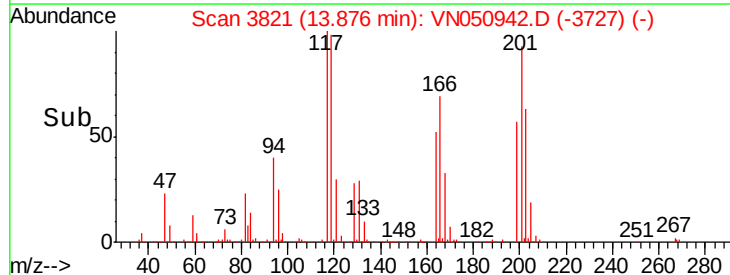
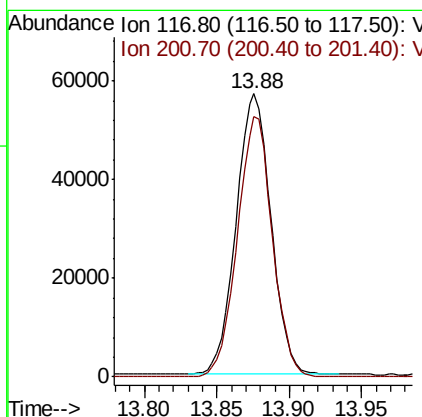
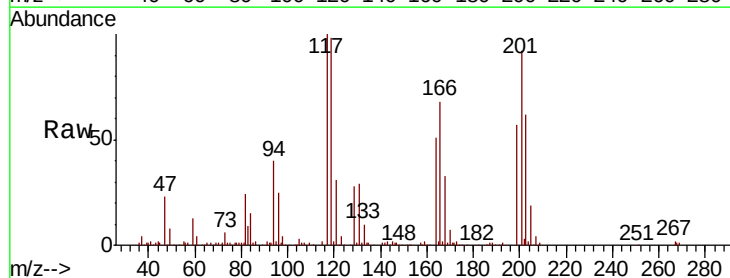
RT: 13.88 min Scan# 3821

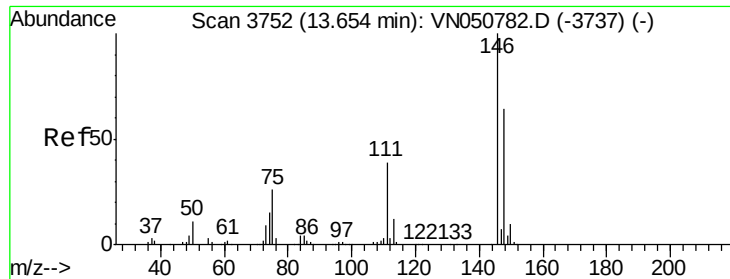
Delta R.T. 0.00 min

Lab File: VN050942.D

Acq: 29 Aug 2018 11:35

Tgt Ion:	117	Resp:	94405
Ion Ratio	Lower	Upper	
117	100		
201	93.4	46.0	137.8





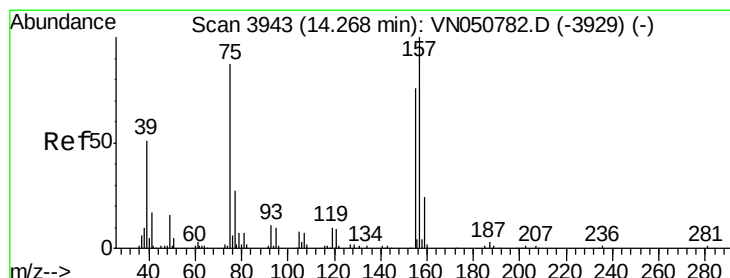
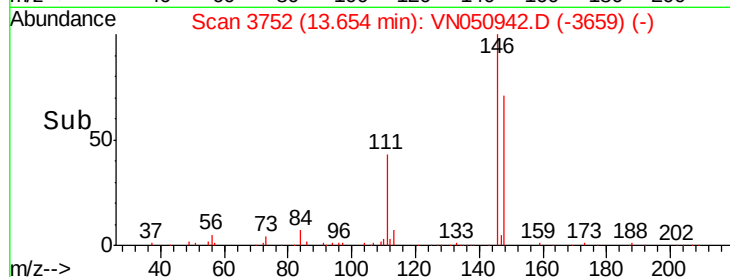
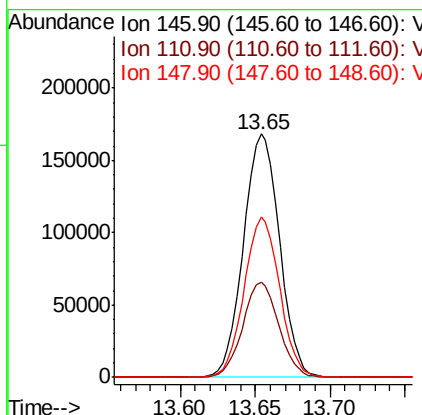
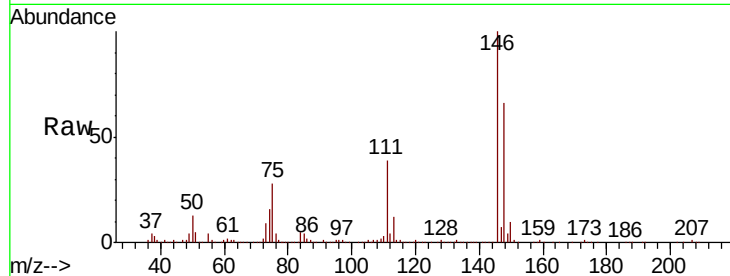
#91
 1,2-Dichlorobenzene
 Concen: 20.041 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.8	59.3
148	64.9	32.3	96.8

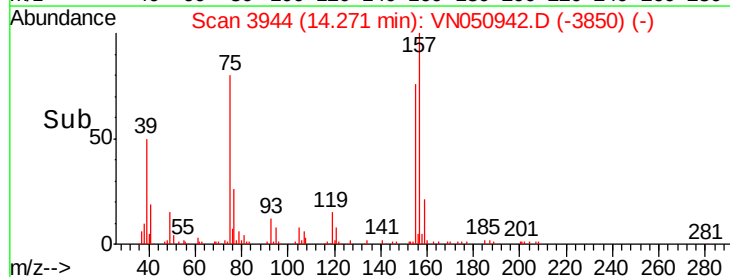
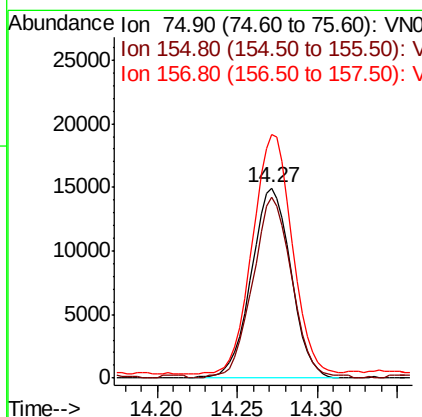
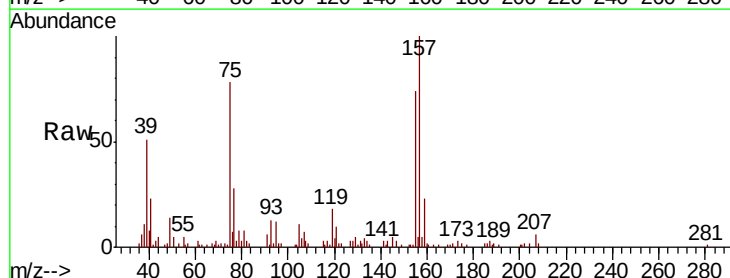
Manual Integrations
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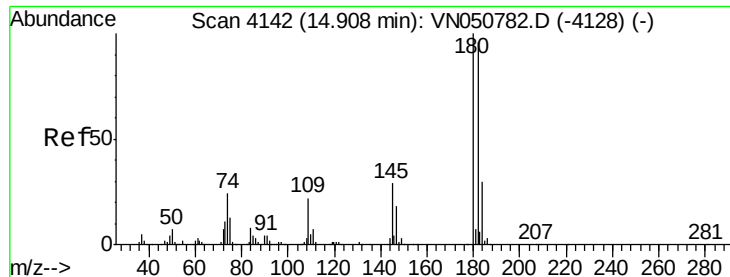
MMDadoda
 8/30/2018 11:07:39 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.409 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.9	46.4	139.1
157	125.1	60.7	182.0





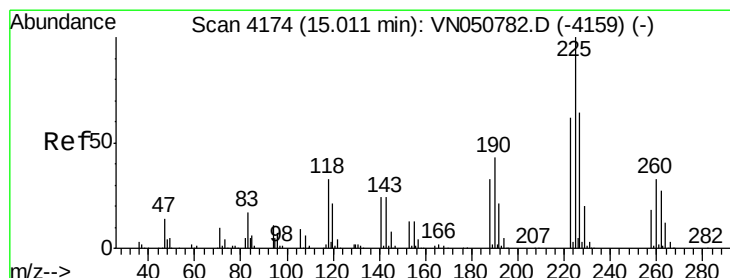
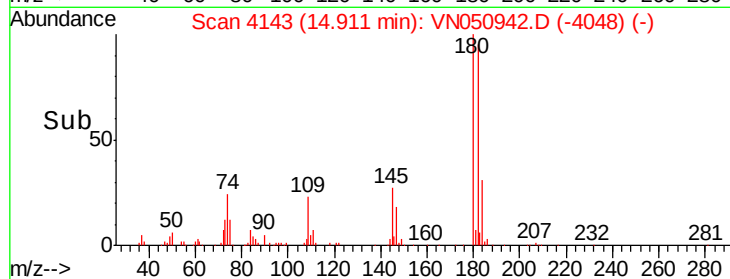
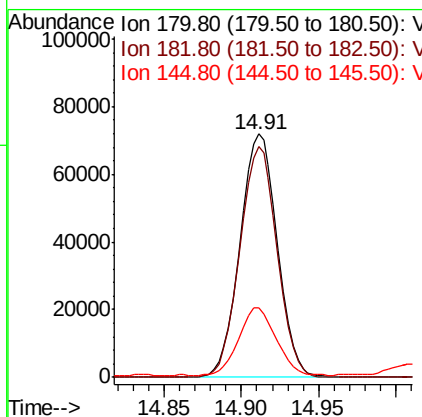
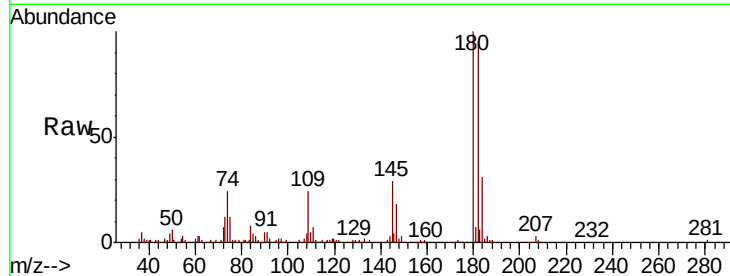
#93
 1,2,4-Trichlorobenzene
 Concen: 19.163 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0829MBSD01

Tot Ion:	180	Resp:	120579
Ion Ratio	Lower	Upper	
180	100		
182	94.4	48.2	144.6
145	27.5	14.1	42.2

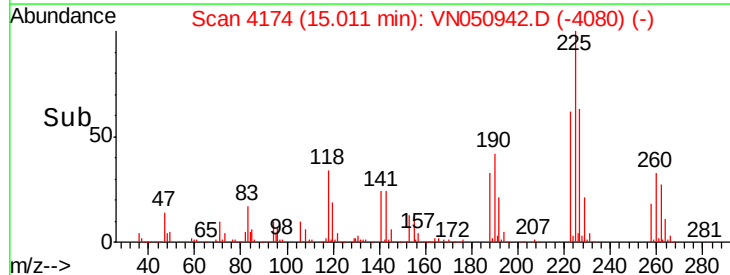
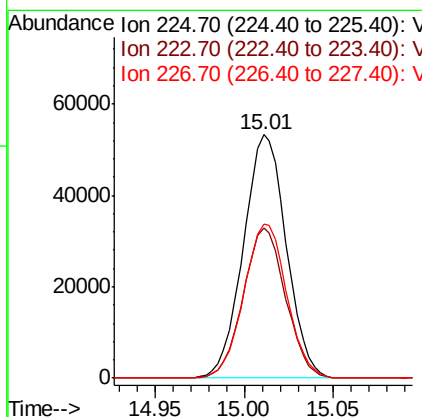
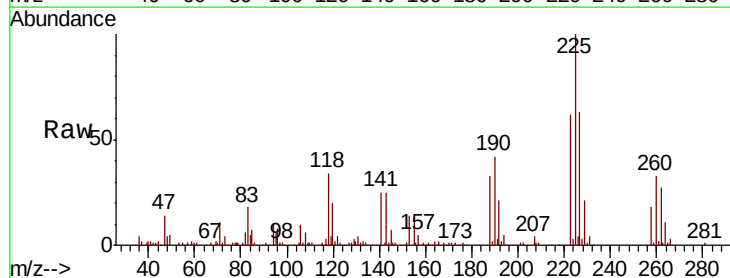
Manual Integrations
 APPROVED

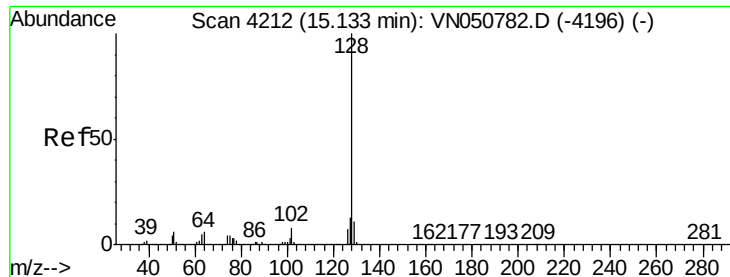
MMDadoda
 8/30/2018 11:07:39 AM



#94
 Hexachlorobutadiene
 Concen: 20.698 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050942.D
 Acq: 29 Aug 2018 11:35

Tgt Ion:	225	Resp:	89346
Ion Ratio	Lower	Upper	
225	100		
223	60.9	31.3	93.8
227	63.4	32.0	96.2





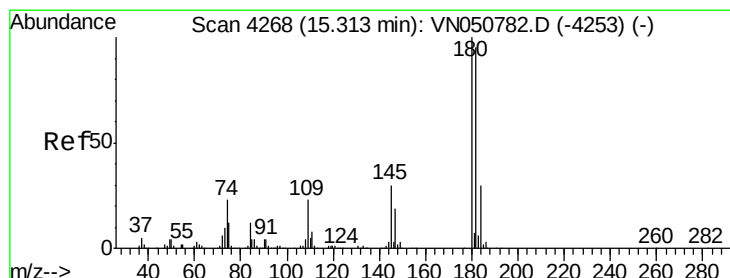
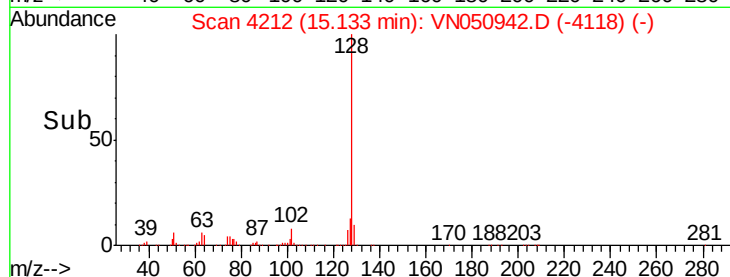
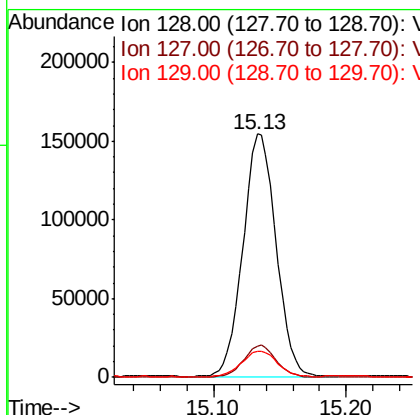
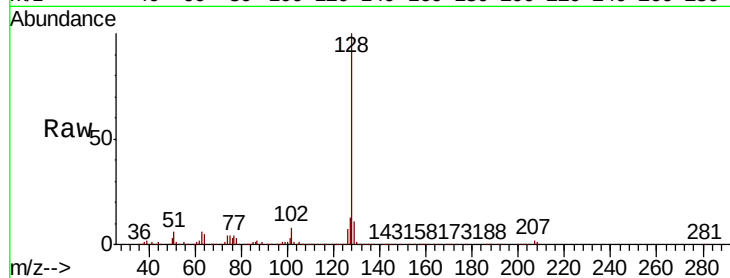
#95
Naphthalene
Concen: 20.903 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Instrument :
MSVOA_N
ClientSampleId :
VN0829MBSD01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	266028		
127	12.8	10.5	15.7	
129	11.4	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
8/30/2018 11:07:39 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.375 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050942.D
Acq: 29 Aug 2018 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	125851		
182	97.5	48.0	144.2	
145	29.8	15.2	45.6	

