

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052319\
 Data File : VN055771.D
 Acq On : 23 May 2019 22:37
 Operator : JC/SP
 Sample : VN0523MBS01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Manual Integrations
 APPROVED

MMDadoda
 5/24/2019 9:24:05 AM

Quant Time: May 24 07:47:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	392305	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	543678	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	484913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	207384	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	191505	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
35) Dibromofluoromethane	7.59	113	173120	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
50) Toluene-d8	10.09	98	659070	49.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.98%	
62) 4-Bromofluorobenzene	12.40	95	217898	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	47103	17.840	ug/l	100
3) Chloromethane	2.06	50	66038	17.852	ug/l	97
4) Vinyl Chloride	2.19	62	71607	18.149	ug/l	99
5) Bromomethane	2.54	94	50902m	20.621	ug/l	
6) Chloroethane	2.69	64	45357	19.094	ug/l	99
7) Trichlorofluoromethane	3.01	101	98790	19.098	ug/l	100
8) Diethyl Ether	3.40	74	43574	18.794	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	59806	18.521	ug/l	97
10) Methyl Iodide	3.94	142	95012	20.126	ug/l	99
11) Tert butyl alcohol	4.82	59	83932	108.427	ug/l	99
12) 1,1-Dichloroethene	3.72	96	62255	18.659	ug/l	98
13) Acrolein	3.60	56	46816	84.463	ug/l	99
14) Allyl chloride	4.31	41	103618	18.116	ug/l	99
15) Acrylonitrile	4.99	53	169890	95.577	ug/l	99
16) Acetone	3.82	43	137692	77.315	ug/l	100
17) Carbon Disulfide	4.04	76	167061	17.624	ug/l	100
18) Methyl Acetate	4.33	43	72792	19.330	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	213763	19.210	ug/l	99
20) Methylene Chloride	4.55	84	71855	18.630	ug/l	98
21) trans-1,2-Dichloroethene	5.03	96	67359	18.792	ug/l	96
22) Diisopropyl ether	5.96	45	207846	18.684	ug/l	96
23) Vinyl Acetate	5.90	43	881431	92.413	ug/l	99
24) 1,1-Dichloroethane	5.85	63	119125	18.392	ug/l	100
25) 2-Butanone	6.84	43	224194	90.140	ug/l	99
26) 2,2-Dichloropropane	6.82	77	82761	14.764	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	79340	18.972	ug/l	96
28) Bromochloromethane	7.19	49	60548	19.634	ug/l	93
29) Tetrahydrofuran	7.22	42	152047	96.534	ug/l	98
30) Chloroform	7.37	83	123369	19.099	ug/l	100
31) Cyclohexane	7.65	56	113795	18.713	ug/l	92
32) 1,1,1-Trichloroethane	7.57	97	109537	19.003	ug/l	99
36) 1,1-Dichloropropene	7.79	75	90605	19.123	ug/l	100
37) Ethyl Acetate	6.93	43	92490	20.198	ug/l	99
38) Carbon Tetrachloride	7.77	117	98293	19.917	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	113507	19.346	ug/l	97
40) Benzene	8.04	78	285064	19.964	ug/l	99
41) Methacrylonitrile	7.18	41	44848	19.386	ug/l	96
42) 1,2-Dichloroethane	8.12	62	92222	19.765	ug/l	100
43) Isopropyl Acetate	8.17	43	147177	19.129	ug/l	93
44) Trichloroethene	8.83	130	82468	20.716	ug/l	99
45) 1,2-Dichloropropane	9.12	63	73460	19.746	ug/l	99
46) Dibromomethane	9.21	93	49528	20.300	ug/l	96
47) Bromodichloromethane	9.40	83	97317	19.452	ug/l	98
48) Methyl methacrylate	9.20	41	70314	19.830	ug/l	99
49) 1,4-Dioxane	9.21	88	30736	417.115	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	454625	100.049	ug/l	99
52) Toluene	10.16	92	181129	20.169	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	98931	18.525	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	111994	18.931	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	72320	20.102	ug/l	98
56) Ethyl methacrylate	10.43	69	110847	19.936	ug/l	100
57) 1,3-Dichloropropane	10.71	76	115916	19.821	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	197291	92.848	ug/l	99
59) 2-Hexanone	10.75	43	307709	95.456	ug/l	100
60) Dibromochloromethane	10.90	129	83478	19.918	ug/l	100
61) 1,2-Dibromoethane	11.01	107	75257	20.167	ug/l	98
64) Tetrachloroethene	10.63	164	86978	21.267	ug/l	97
65) Chlorobenzene	11.43	112	195306	20.119	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	76150	19.669	ug/l	99
67) Ethyl Benzene	11.51	91	340510	19.560	ug/l	98
68) m/p-Xylenes	11.62	106	262584	39.900	ug/l	98
69) o-Xylene	11.95	106	129130	19.777	ug/l	99
70) Styrene	11.96	104	209392	19.803	ug/l	100
71) Bromoform	12.13	173	66293	20.074	ug/l #	100
73) Isopropylbenzene	12.25	105	342274	21.692	ug/l	99
74) N-amyl acetate	12.07	43	119179	19.848	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	100942	21.196	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	88953m	23.224	ug/l	
77) Bromobenzene	12.53	156	90639	20.482	ug/l	95
78) n-propylbenzene	12.59	91	354284	19.656	ug/l	98
79) 2-Chlorotoluene	12.67	91	216733	20.837	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	282605	21.289	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	27240	17.673	ug/l	95
82) 4-Chlorotoluene	12.77	91	205482	19.394	ug/l	99
83) tert-Butylbenzene	12.99	119	251635	21.733	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	281935	21.404	ug/l	98
85) sec-Butylbenzene	13.17	105	313466	21.088	ug/l	99
86) p-Isopropyltoluene	13.29	119	287231	19.944	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	141115	20.138	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	133663	20.063	ug/l	99
89) n-Butylbenzene	13.61	91	210998	19.121	ug/l	99
90) Hexachloroethane	13.87	117	53523	19.525	ug/l	97
91) 1,2-Dichlorobenzene	13.65	146	140069	20.035	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	17531	19.078	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	68401	19.405	ug/l	98
94) Hexachlorobutadiene	15.01	225	56848	22.086	ug/l	98
95) Naphthalene	15.13	128	181977	18.969	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	74713	20.217	ug/l	98

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

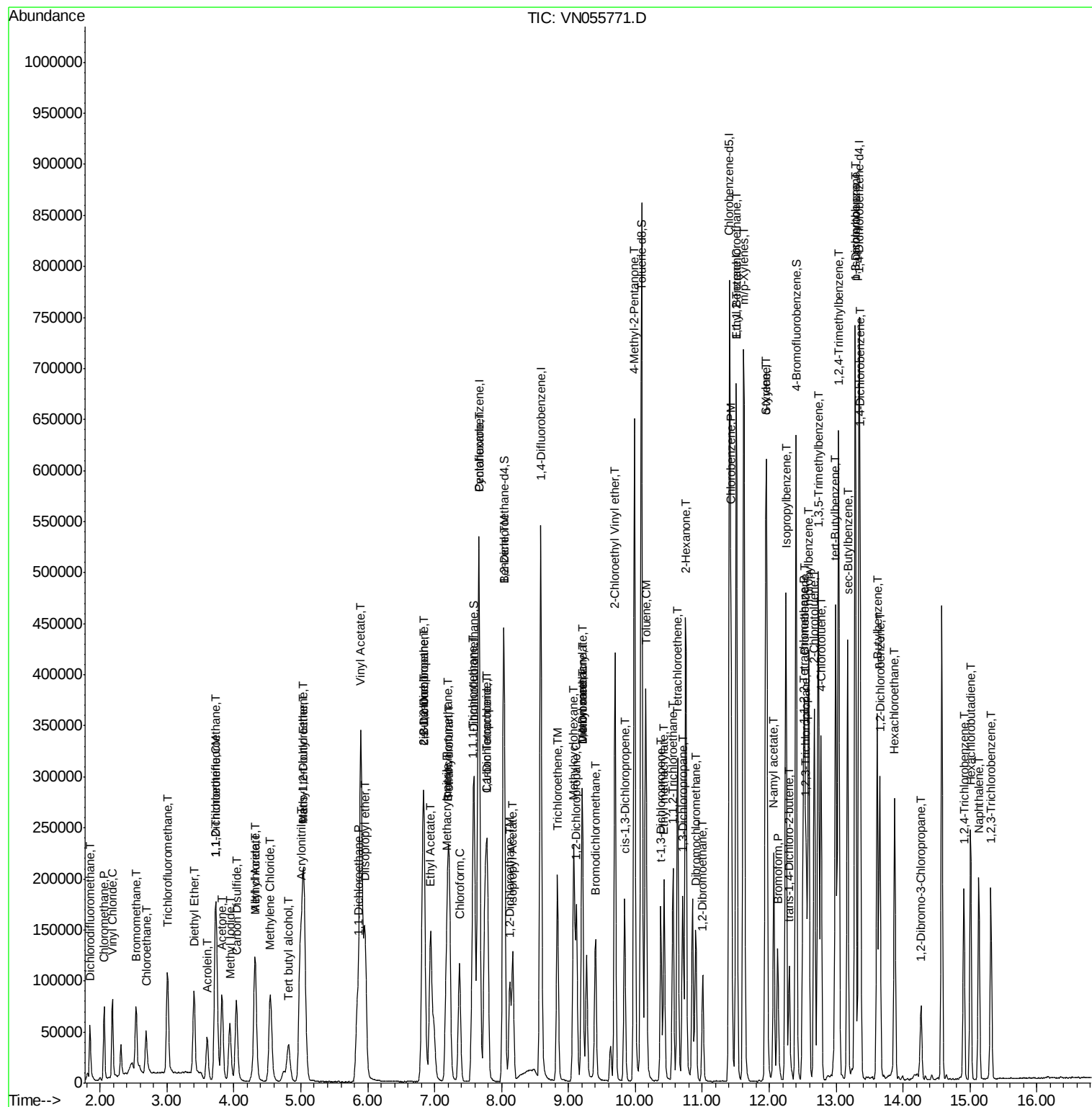
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Data File : VN055771.D
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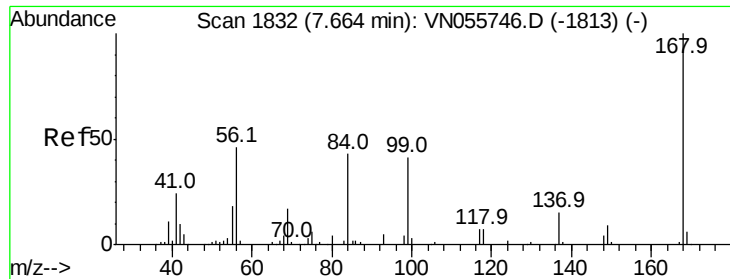
Instrument :
MSVOA_N
Client Sample ID :
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Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion:168 Resp: 392305

Ion Ratio Lower Upper

168 100

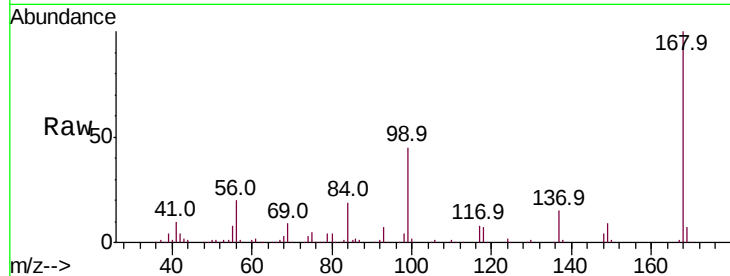
99 44.4 37.2 55.8

Manual Integrations

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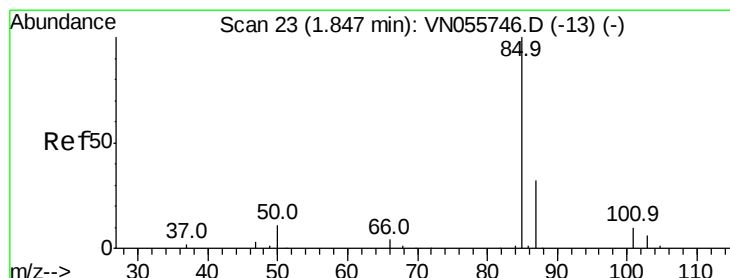
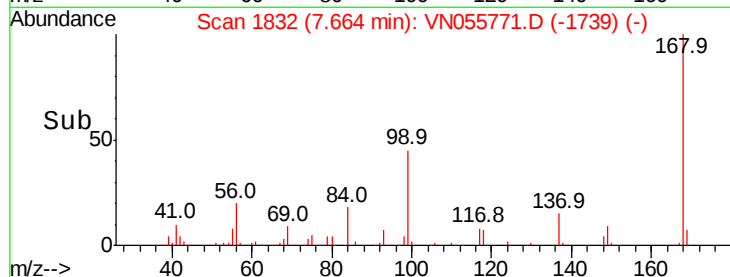
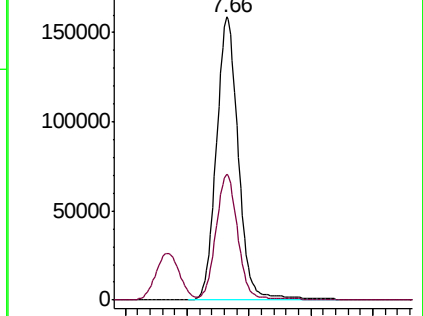
MMDadoda

5/24/2019 9:24:05 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 17.840 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055771.D

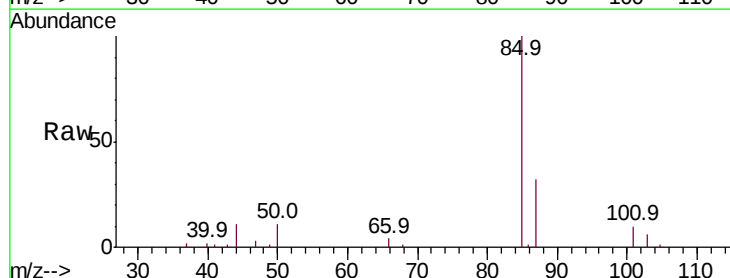
Acq: 23 May 2019 22:37

Tgt Ion: 85 Resp: 47103

Ion Ratio Lower Upper

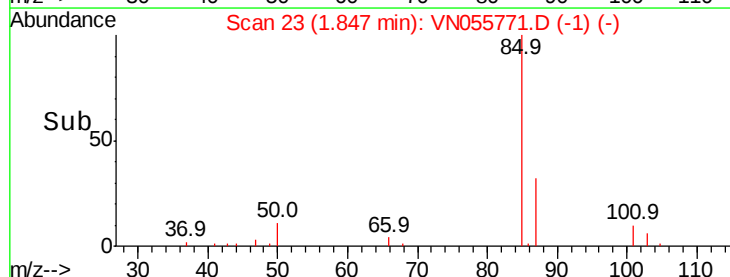
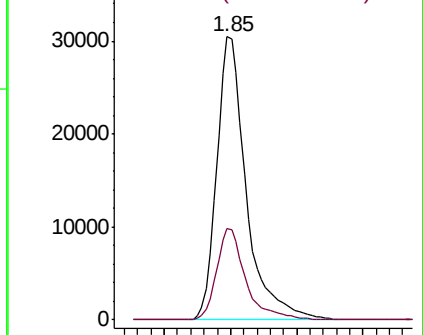
85 100

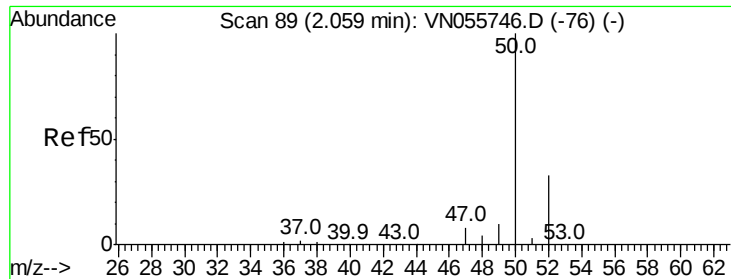
87 32.2 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.852 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 50 Resp: 66038

Ion Ratio Lower Upper

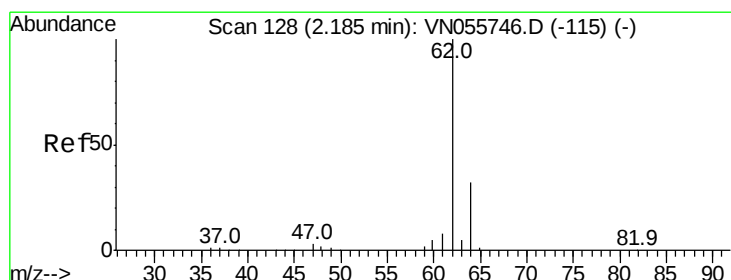
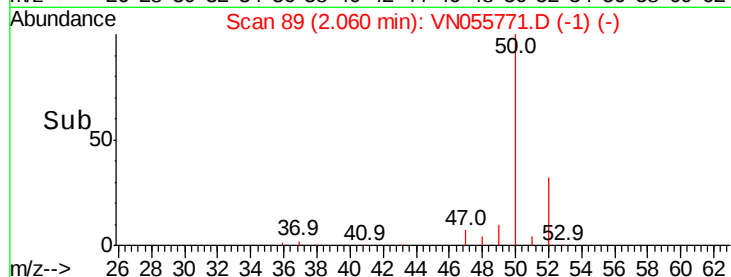
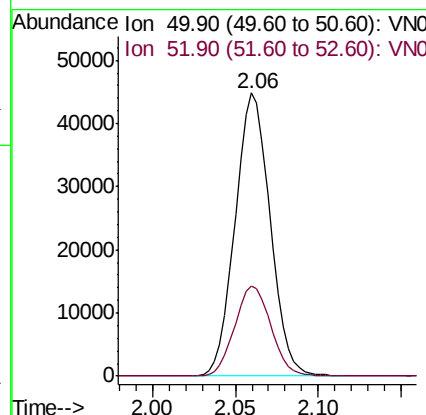
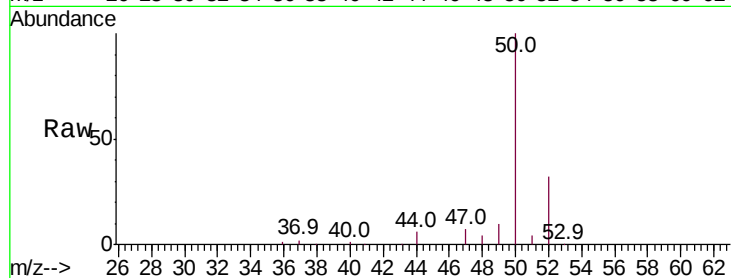
50 100

52 31.8 26.6 40.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.149 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055771.D

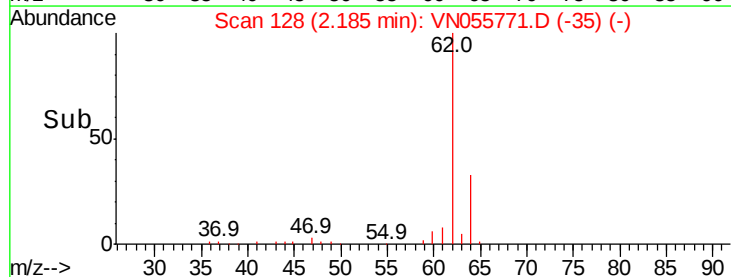
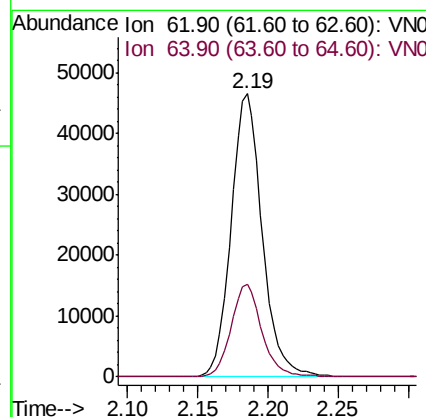
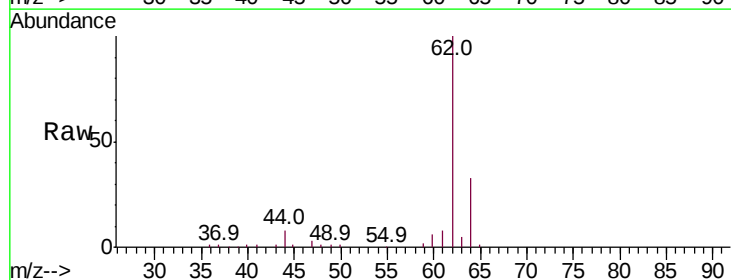
Acq: 23 May 2019 22:37

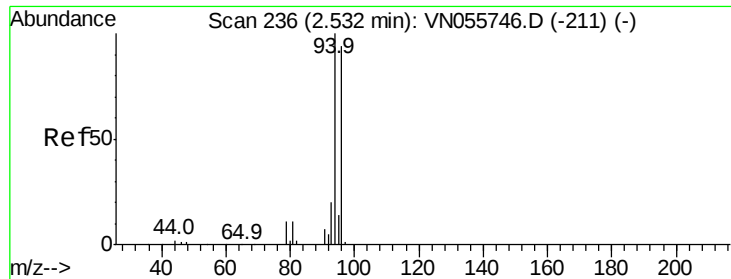
Tgt Ion: 62 Resp: 71607

Ion Ratio Lower Upper

62 100

64 32.8 25.6 38.4





#5

Bromomethane

Concen: 20.621 ug/l m

RT: 2.54 min Scan# 238

Delta R.T. 0.01 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

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ClientSampleId :

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Tot Ion: 94 Resp: 50902

Ion Ratio Lower Upper

94 100

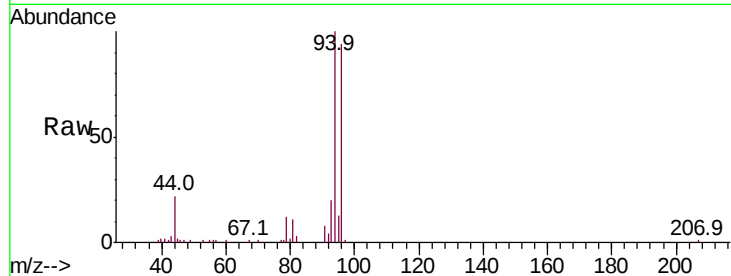
96 93.7 75.5 113.3

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

25000

20000

15000

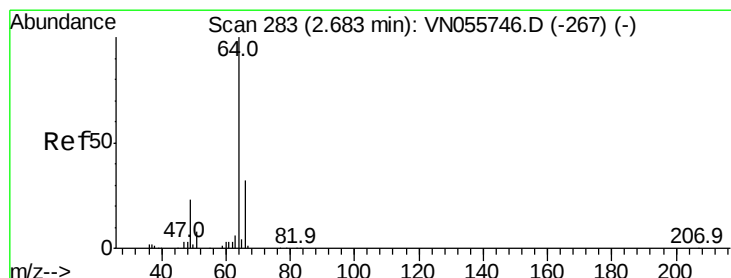
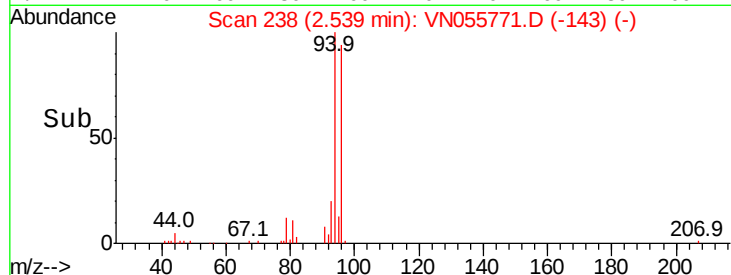
10000

5000

0

2.50 2.60

Time-->



#6

Chloroethane

Concen: 19.094 ug/l

RT: 2.69 min Scan# 285

Delta R.T. 0.01 min

Lab File: VN055771.D

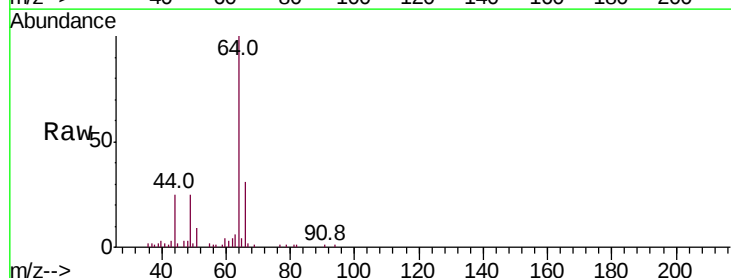
Acq: 23 May 2019 22:37

Tgt Ion: 64 Resp: 45357

Ion Ratio Lower Upper

64 100

66 31.1 25.4 38.0



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

20000

15000

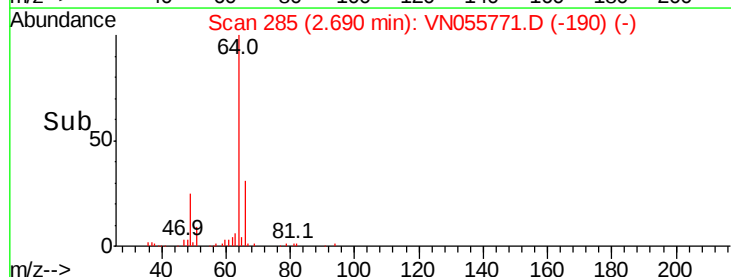
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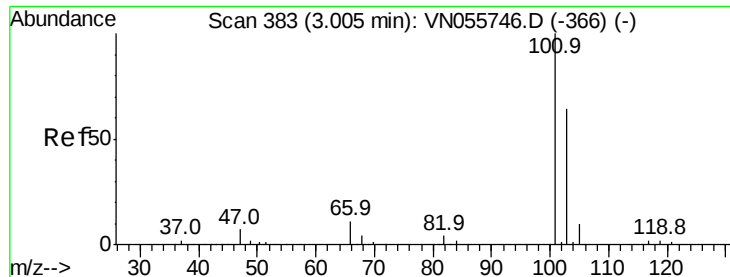
5000

0

2.60 2.70 2.80

Time-->





#7

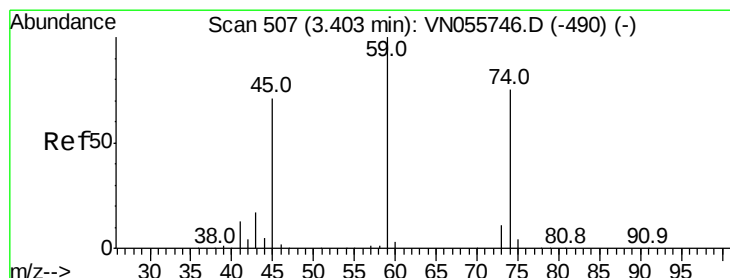
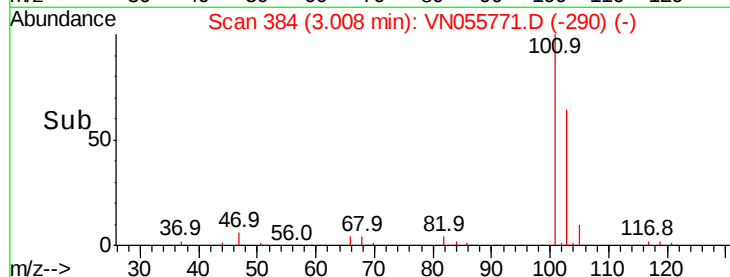
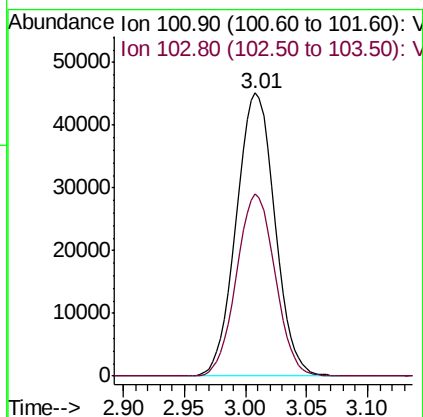
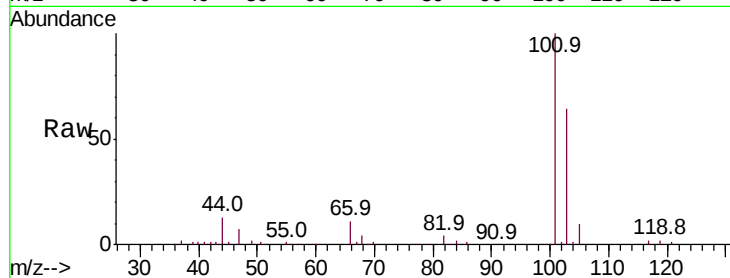
Trichlorofluoromethane
Concen: 19.098 ug/l
RT: 3.01 min Scan# 384
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion:101 Resp: 98790
Ion Ratio Lower Upper
101 100
103 64.2 51.2 76.8

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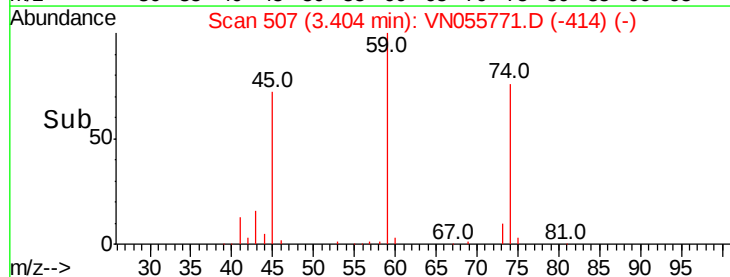
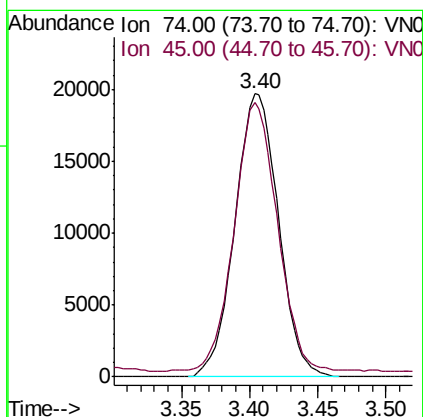
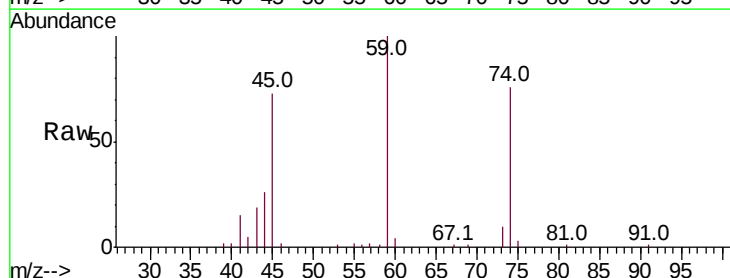
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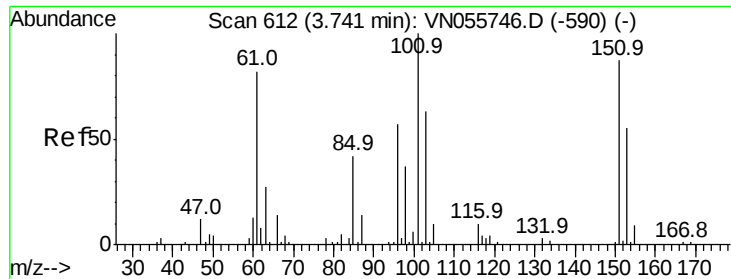


#8

Diethyl Ether
Concen: 18.794 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion: 74 Resp: 43574
Ion Ratio Lower Upper
74 100
45 93.1 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.521 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

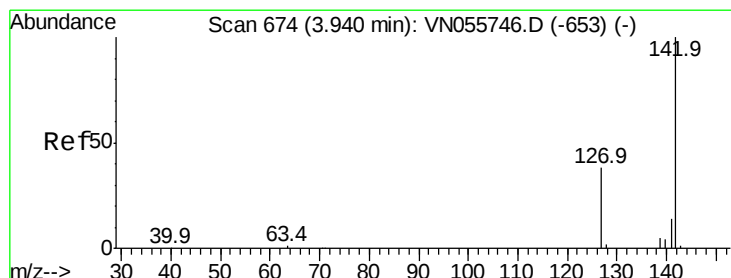
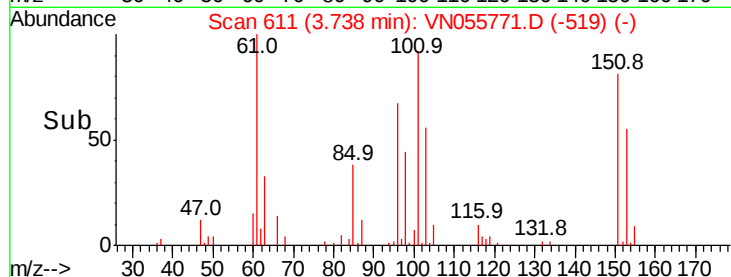
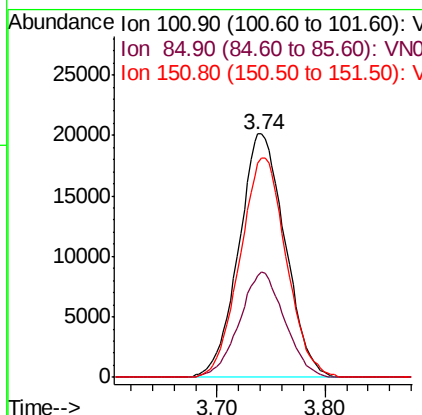
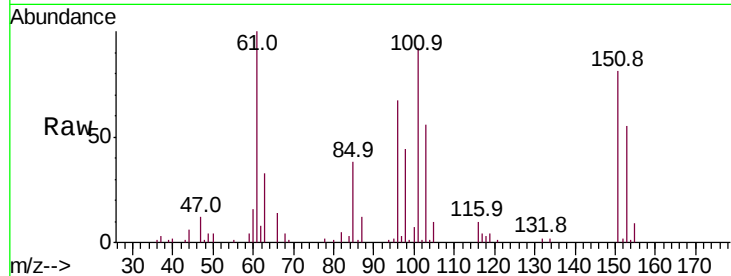
ClientSampled :

VN0523MBS01

Tot Ion:	101	Resp:	59806
Ion Ratio	Lower	Upper	
101	100		
85	42.2	33.4	50.2
151	90.0	69.4	104.2

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#10

Methyl Iodide

Concen: 20.126 ug/l

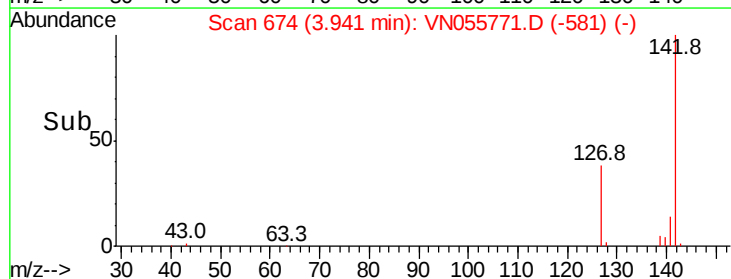
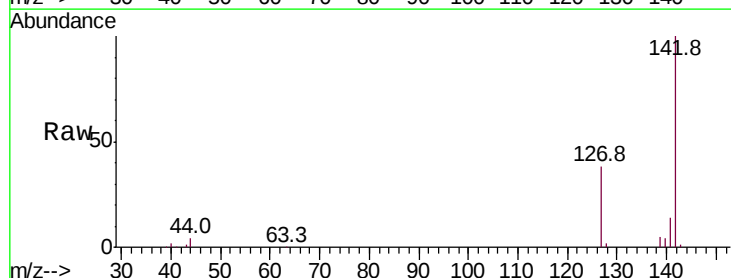
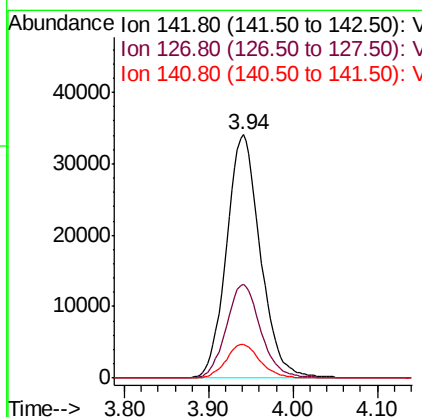
RT: 3.94 min Scan# 674

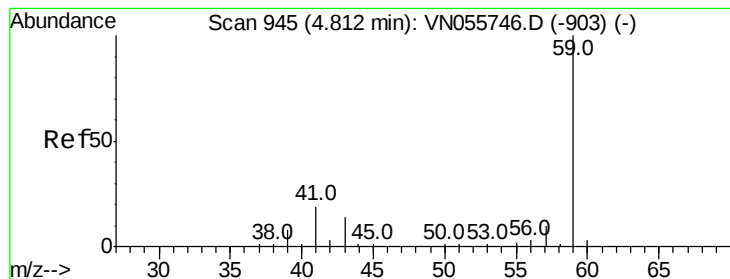
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	142	Resp:	95012
Ion Ratio	Lower	Upper	
142	100		
127	39.0	31.0	46.4
141	13.8	11.4	17.0





#11

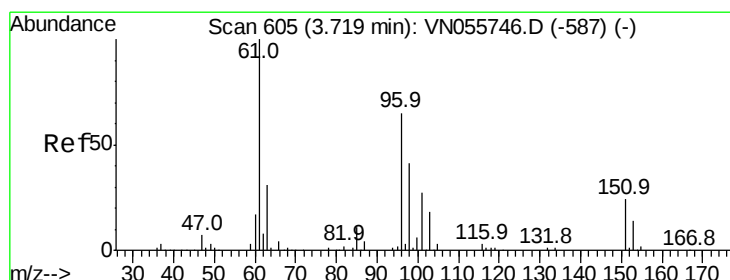
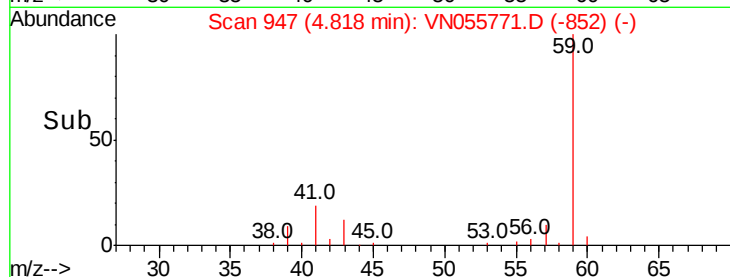
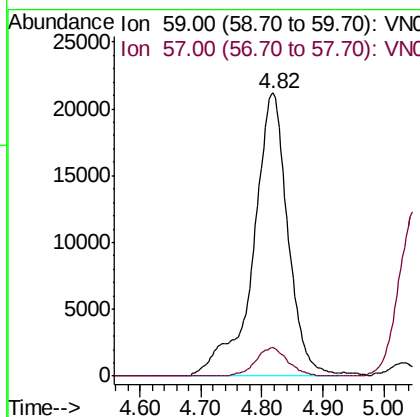
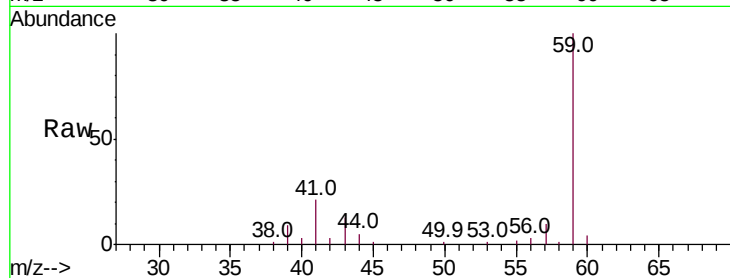
Tert butyl alcohol
 Concen: 108.427 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	83932		
57	57	9.5		7.8	11.6

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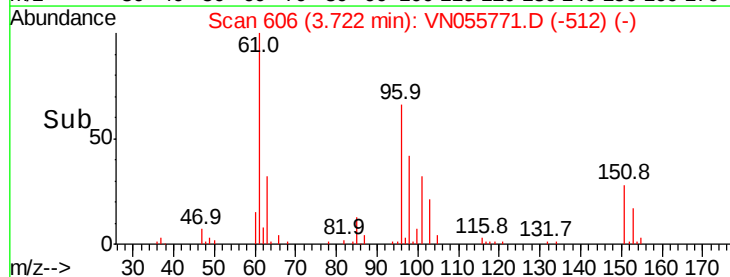
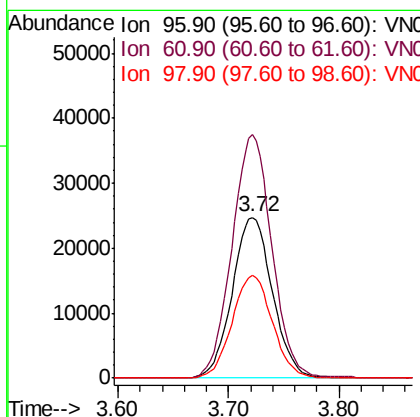
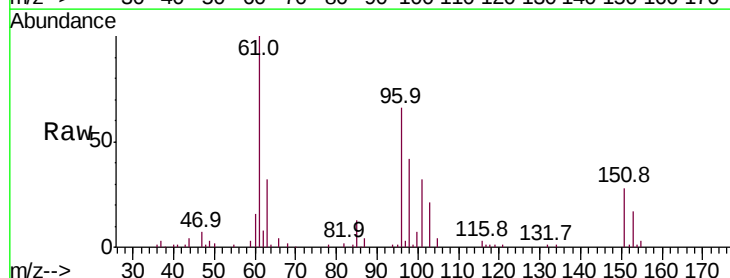
MMDadoda
 5/24/2019 9:24:05 AM

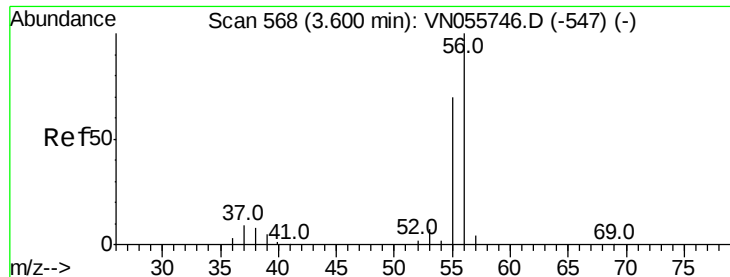


#12

1,1-Dichloroethene
 Concen: 18.659 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	62255		
61	61	151.6		123.2	184.8
98	98	63.6		50.4	75.6





#13

Acrolein

Concen: 84.463 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 56 Resp: 46816

Ion Ratio Lower Upper

56 100

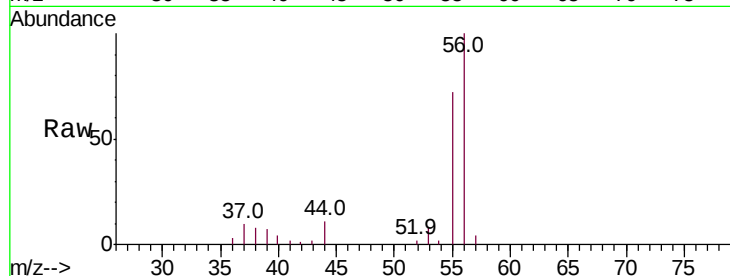
55 70.2 55.4 83.2

Manual Integrations

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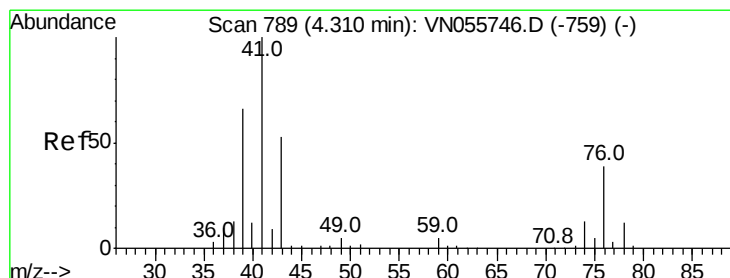
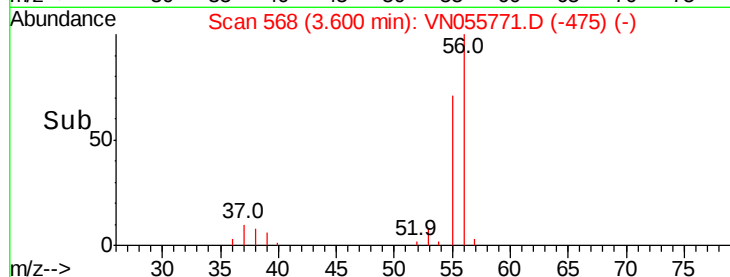
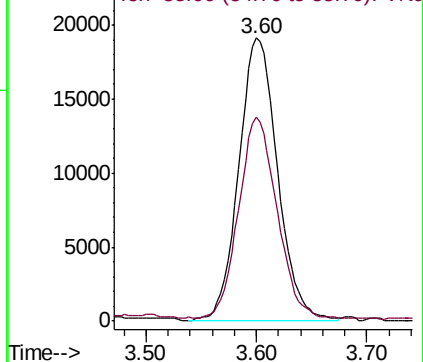
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 55.00 (54.70 to 55.70): VNC



#14

Allyl chloride

Concen: 18.116 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

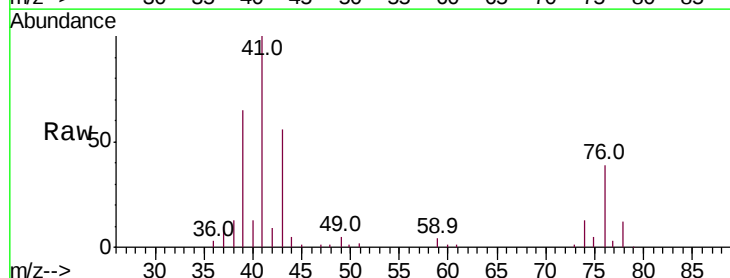
Tgt Ion: 41 Resp: 103618

Ion Ratio Lower Upper

41 100

39 62.7 50.0 75.0

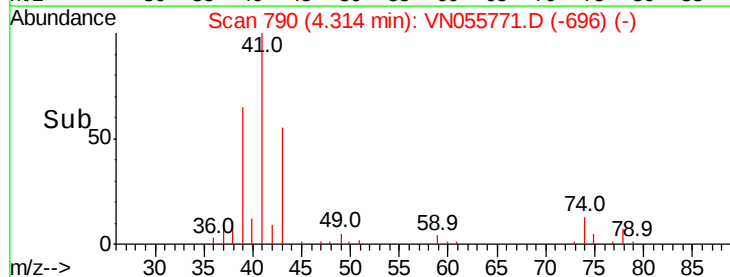
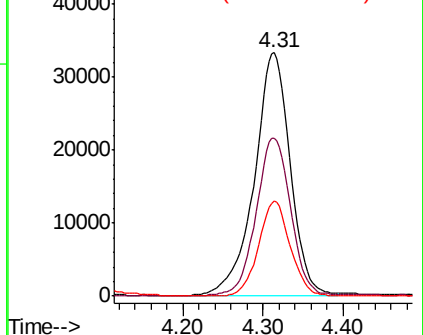
76 34.3 28.2 42.2



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 75.90 (75.60 to 76.60): VNC





#15

Acrylonitrile

Concen: 95.577 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

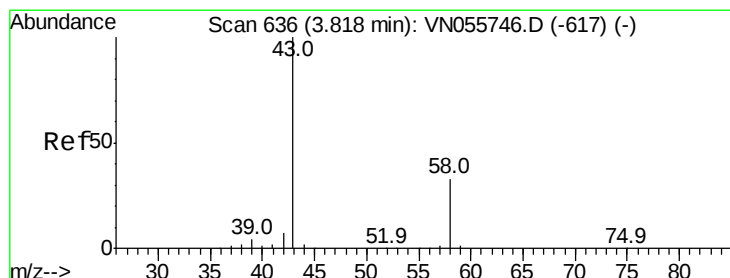
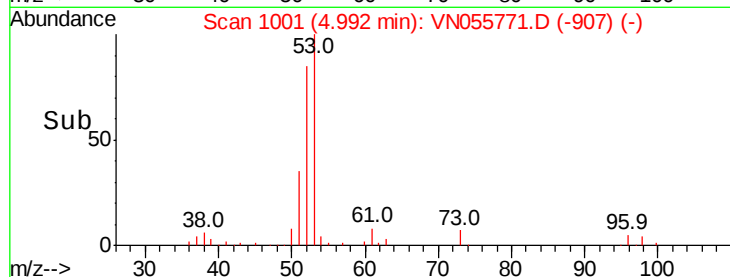
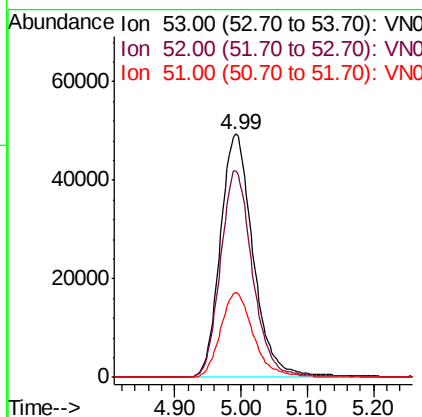
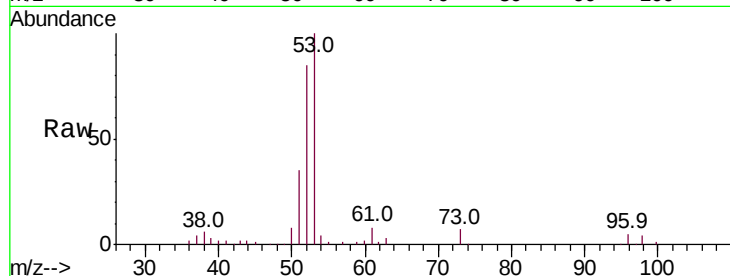
ClientSampleId :

VN0523MBS01

Tot Ion:	53	Resp:	169890
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.8	98.8
51	34.4	28.2	42.4

Manual Integrations
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#16

Acetone

Concen: 77.315 ug/l

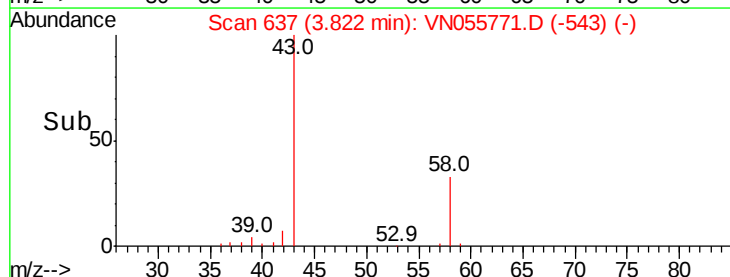
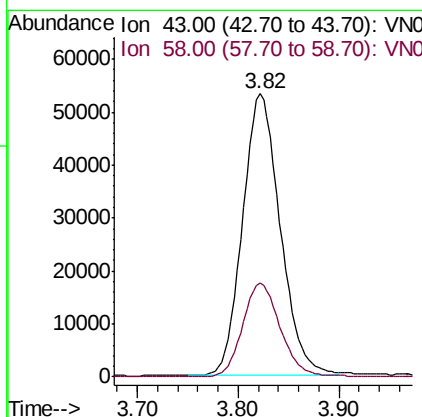
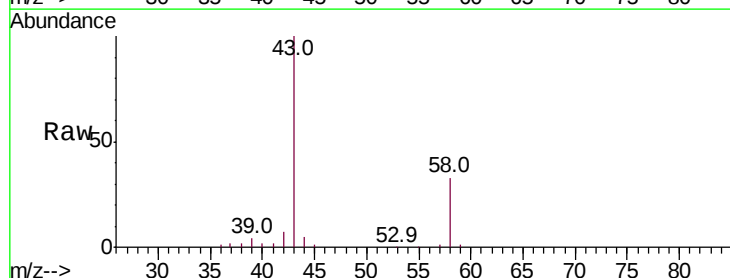
RT: 3.82 min Scan# 637

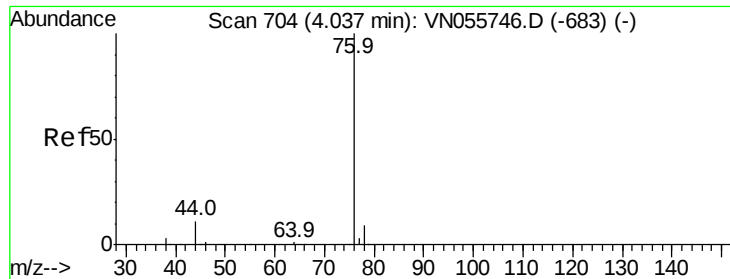
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	43	Resp:	137692
Ion	Ratio	Lower	Upper
43	100		
58	33.2	26.6	39.8





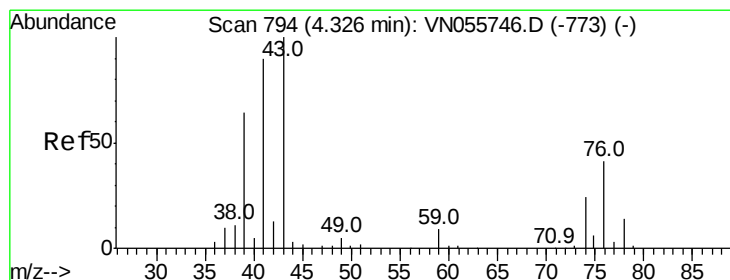
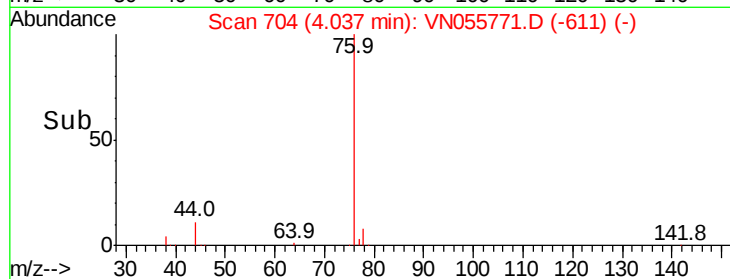
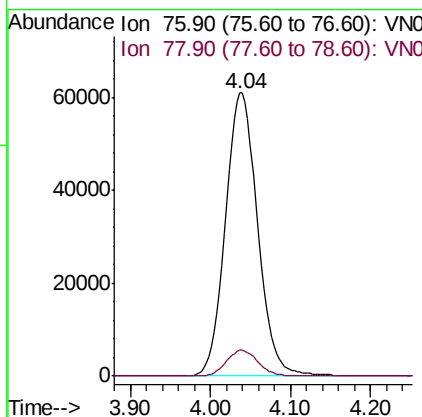
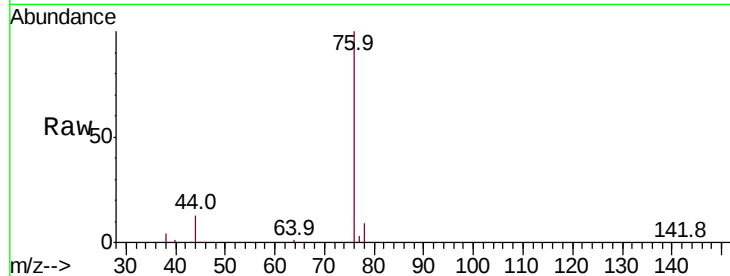
#17
Carbon Disulfide
Concen: 17.624 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.2

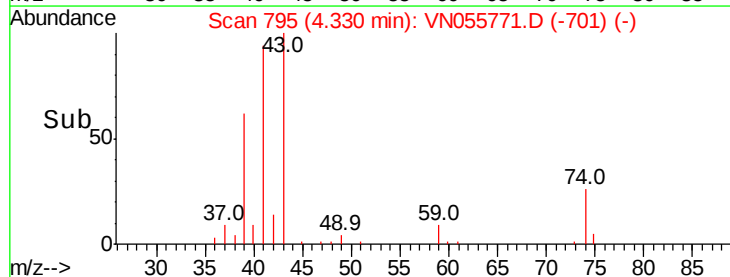
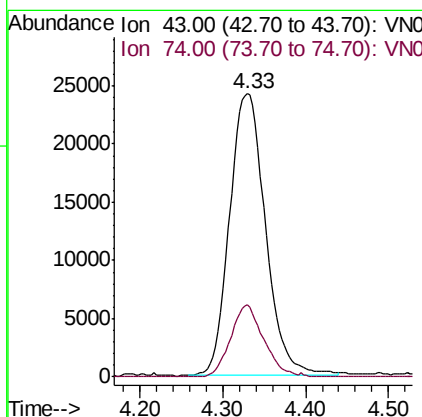
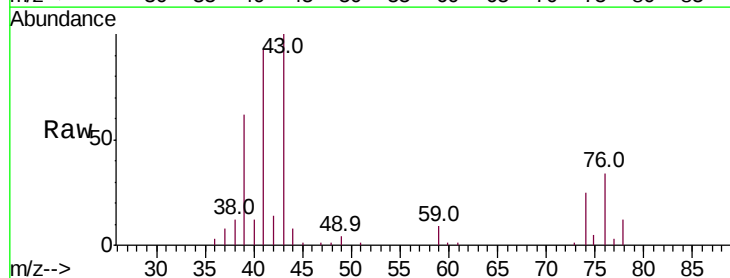
Manual Integrations
APPROVED

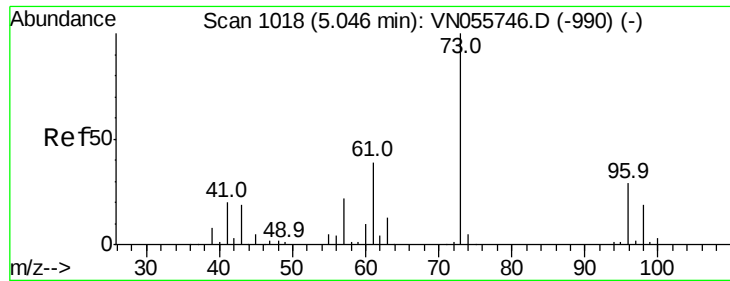
MMDadoda
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#18
Methyl Acetate
Concen: 19.330 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.6	19.3	28.9





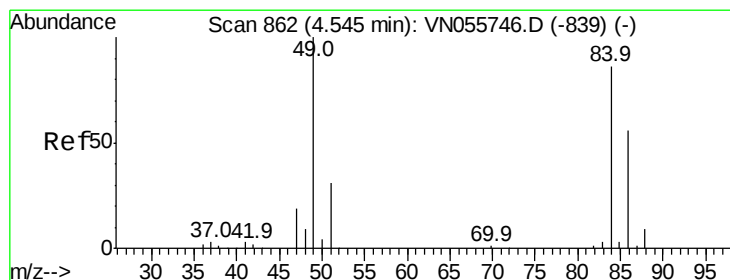
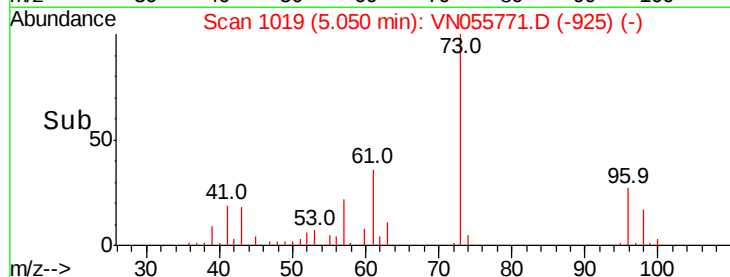
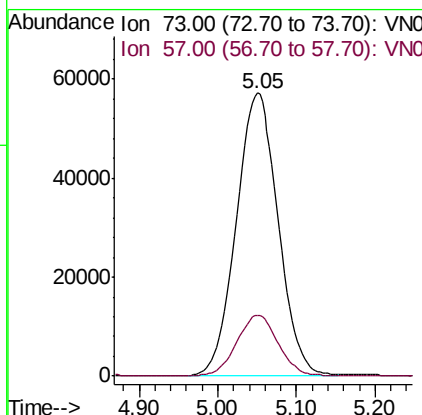
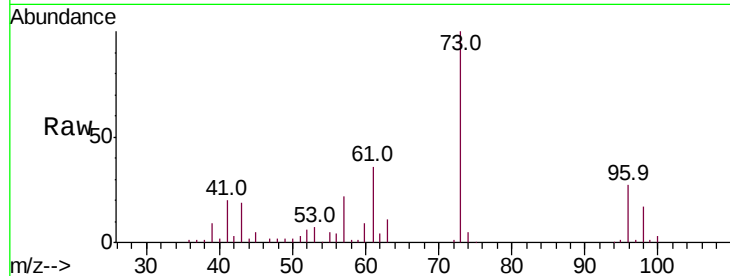
#19
Methyl tert-butyl Ether
Concen: 19.210 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion: 73 Resp: 213763
Ion Ratio Lower Upper
73 100
57 21.6 17.8 26.8

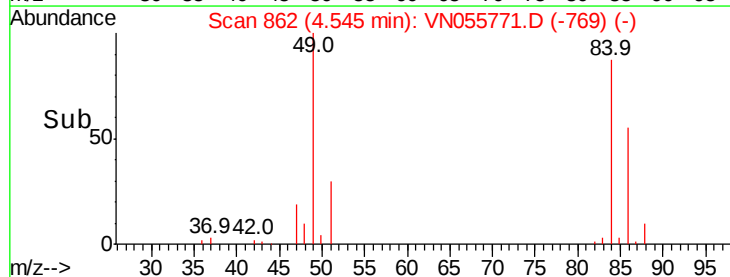
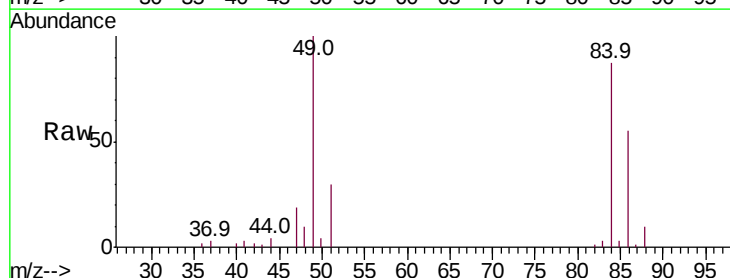
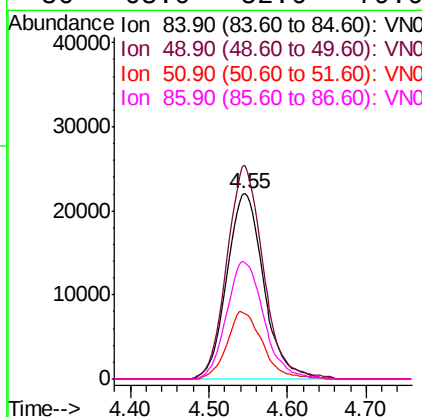
Manual Integrations
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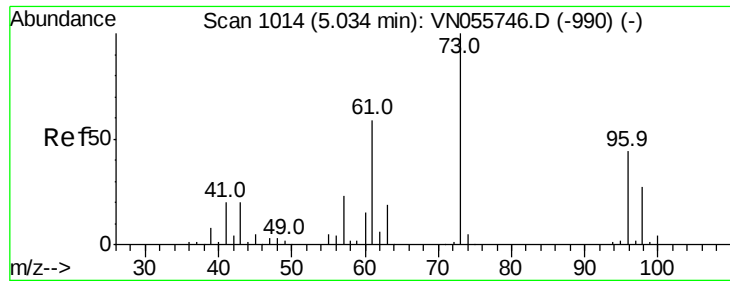
MMDadoda
5/24/2019 9:24:05 AM



#20
Methylene Chloride
Concen: 18.630 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion: 84 Resp: 71855
Ion Ratio Lower Upper
84 100
49 115.2 93.5 140.3
51 35.0 28.6 43.0
86 63.0 52.6 79.0





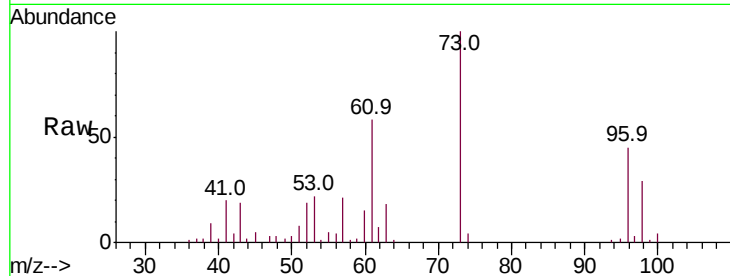
#21
trans-1,2-Dichloroethene
Concen: 18.792 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	129.0	107.8	161.8
98	64.3	49.8	74.8

Manual Integrations
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5/24/2019 9:24:05 AM

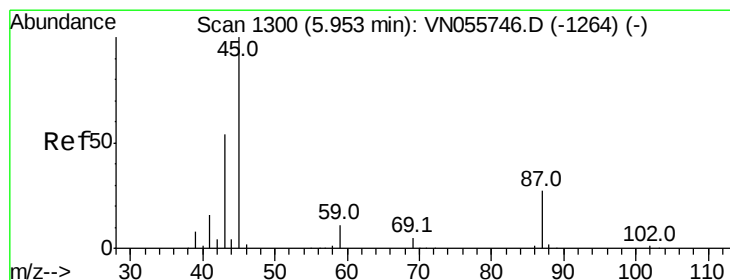
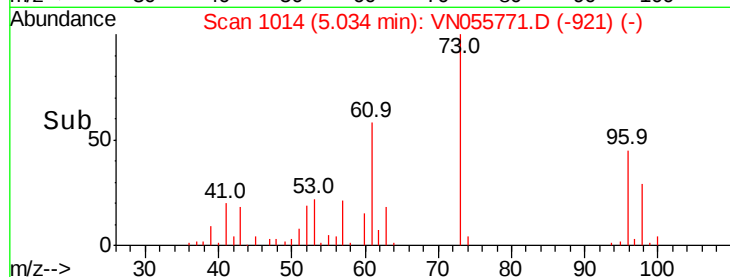
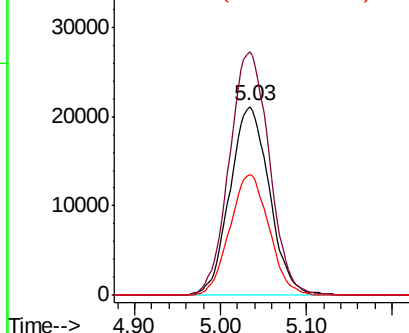


Abundance

Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC



#22
Diisopropyl ether
Concen: 18.684 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.4	45.0	67.6
87	29.7	22.2	33.4
59	11.8	9.1	13.7

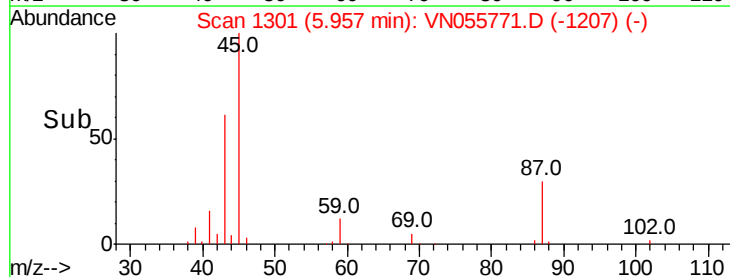
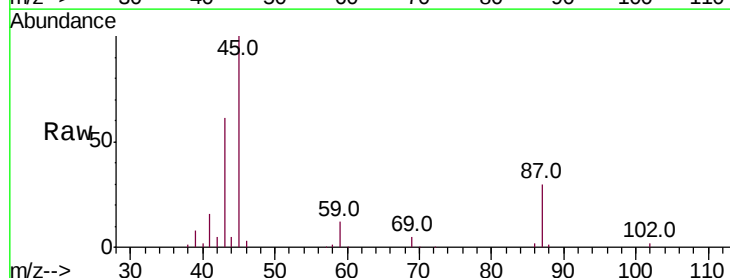
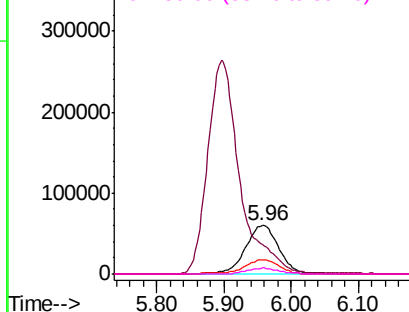
Abundance

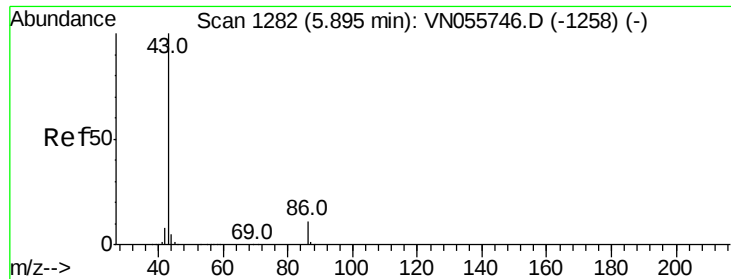
Ion 45.00 (44.70 to 45.70): VNC

Ion 43.00 (42.70 to 43.70): VNC

Ion 87.00 (86.70 to 87.70): VNC

Ion 59.00 (58.70 to 59.70): VNC





#23

Vinyl Acetate

Concen: 92.413 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 43 Resp: 881431

Ion Ratio Lower Upper

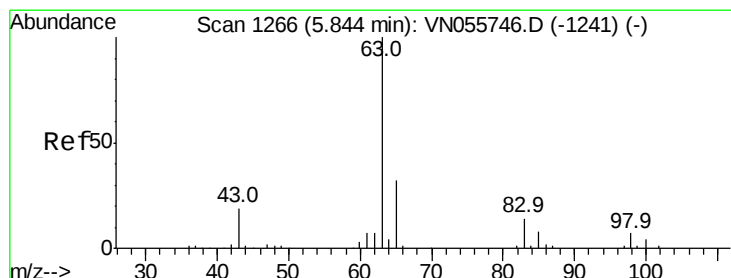
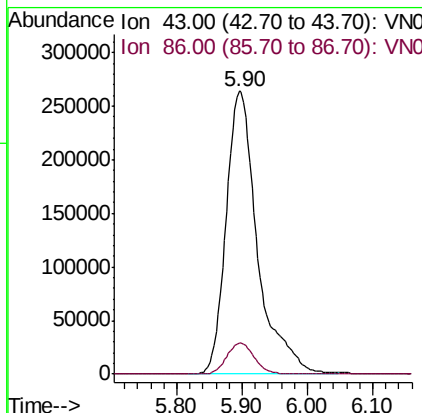
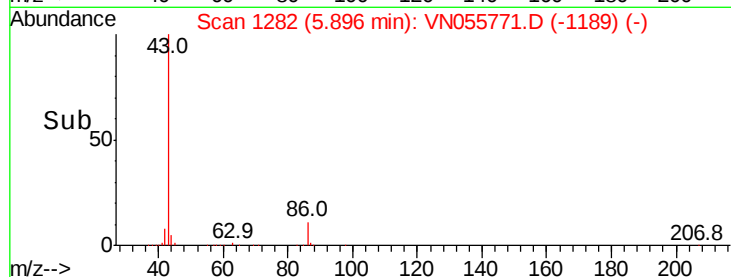
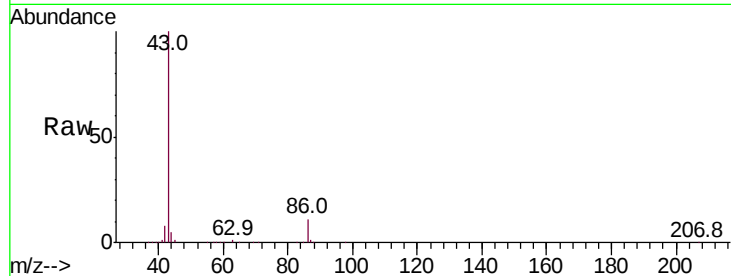
43 100

86 11.1 8.6 13.0

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 18.392 ug/l

RT: 5.85 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

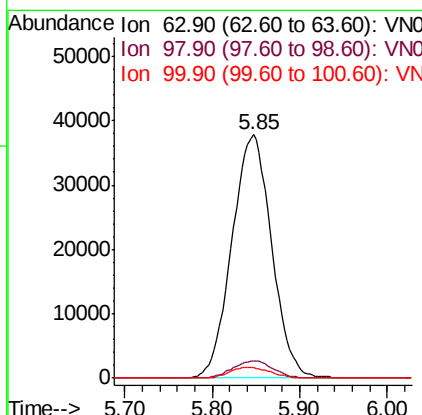
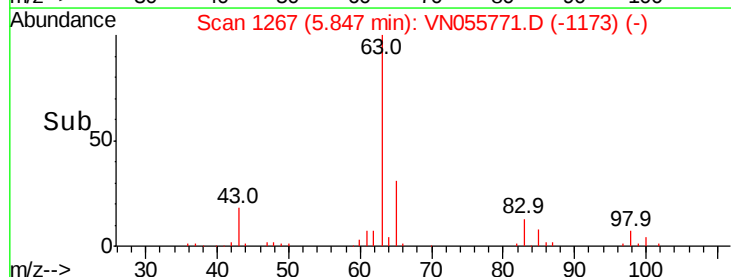
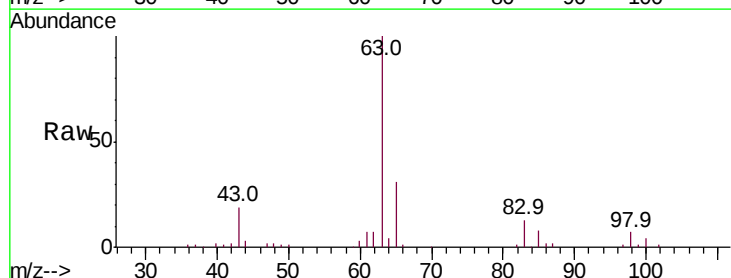
Tgt Ion: 63 Resp: 119125

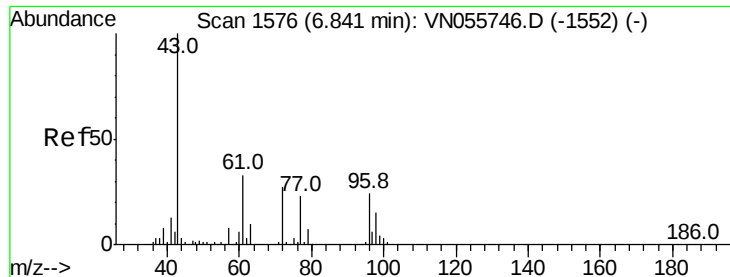
Ion Ratio Lower Upper

63 100

98 6.8 3.4 10.1

100 4.3 2.2 6.6





#25

2-Butanone

Concen: 90.140 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 43 Resp: 224194

Ion Ratio Lower Upper

43 100

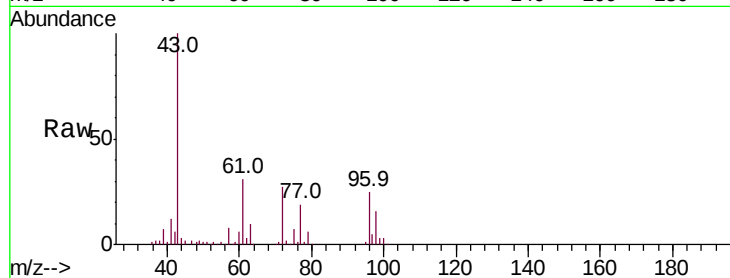
72 27.1 21.9 32.9

Manual Integrations

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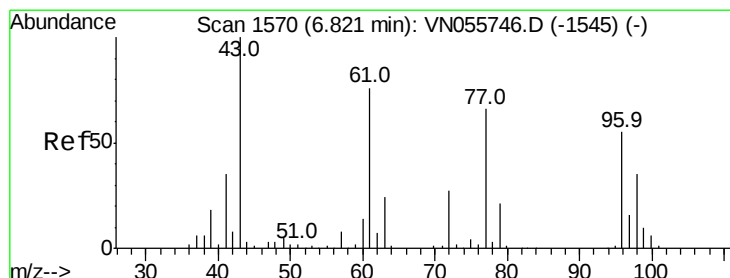
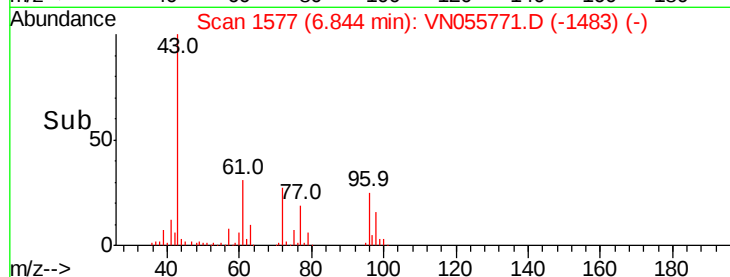
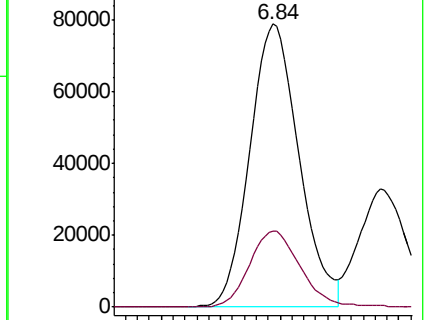
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 14.764 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN055771.D

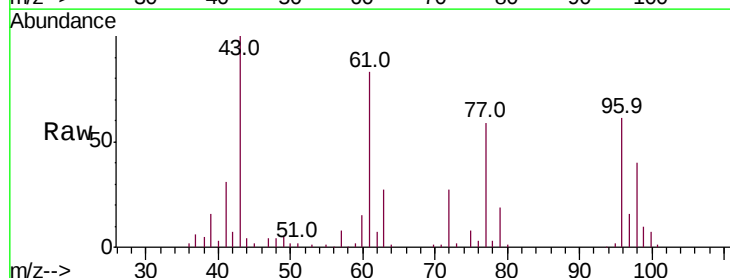
Acq: 23 May 2019 22:37

Tgt Ion: 77 Resp: 82761

Ion Ratio Lower Upper

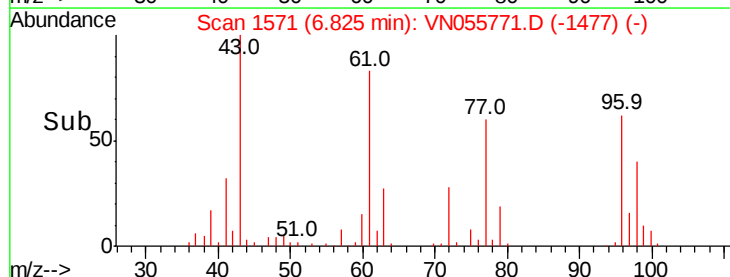
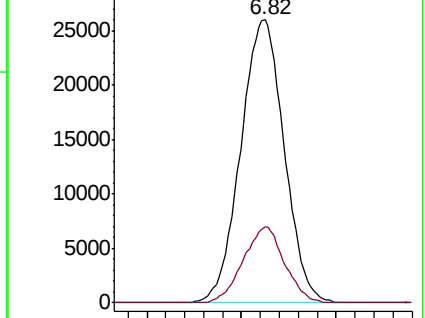
77 100

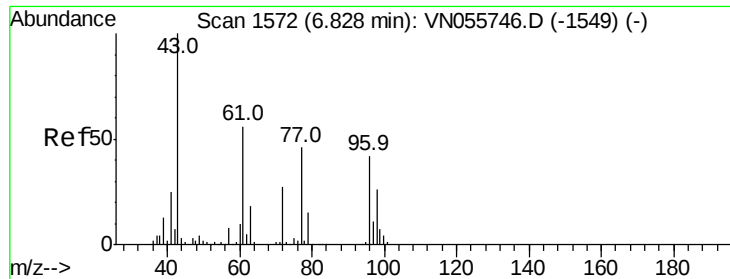
97 25.6 12.2 36.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





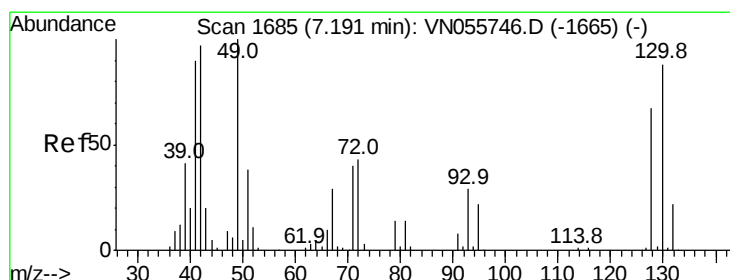
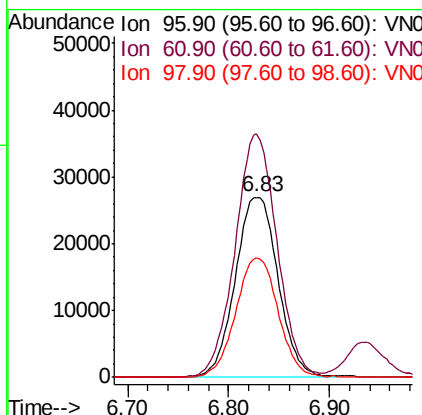
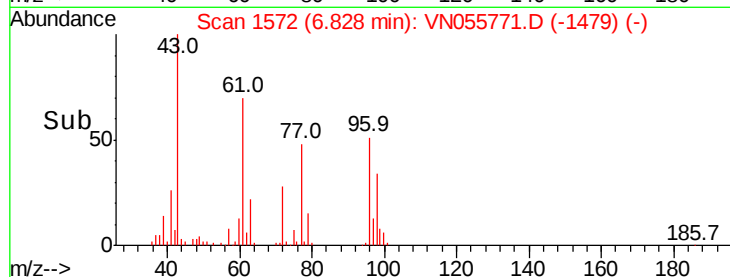
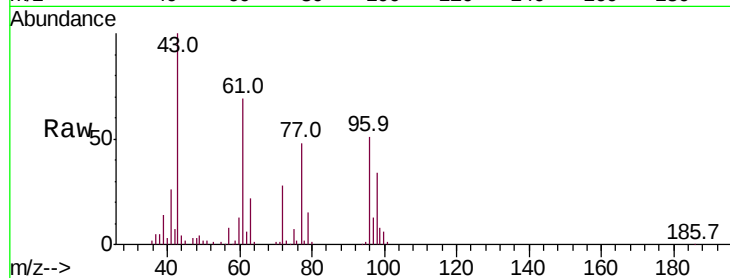
#27
 cis-1,2-Dichloroethene
 Concen: 18.972 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.5	0.0	275.8
98	65.8	0.0	128.4

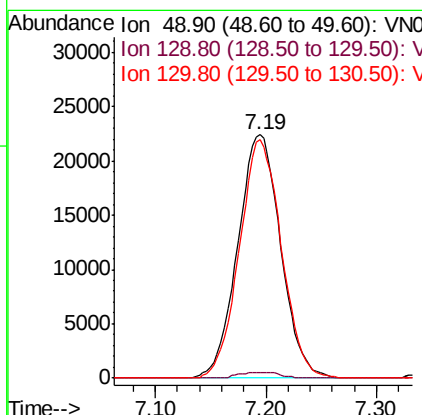
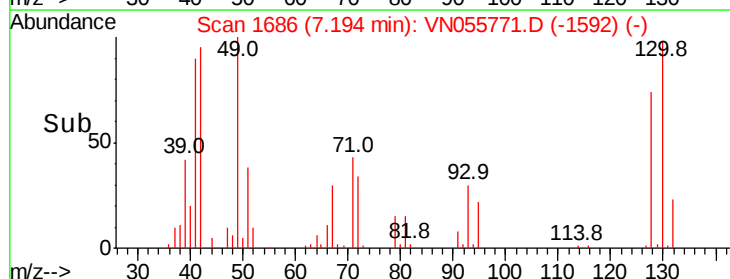
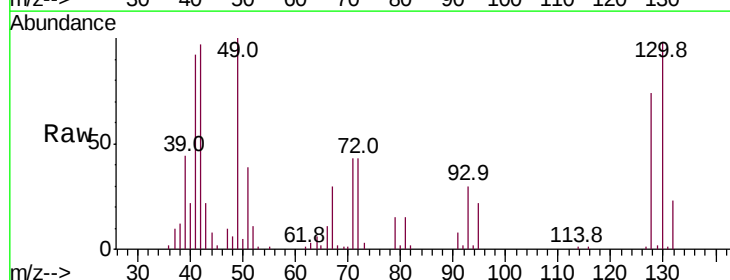
Manual Integrations
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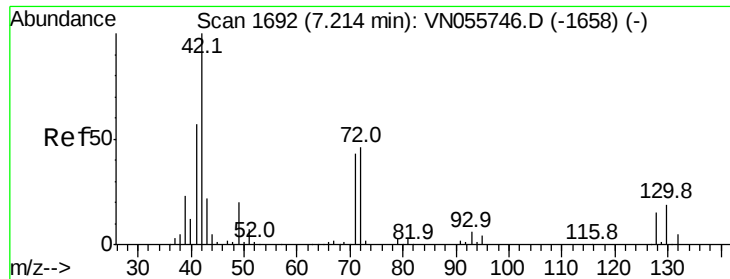
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 5/24/2019 9:24:05 AM



#28
 Bromochloromethane
 Concen: 19.634 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.4
130	95.6	71.2	106.8





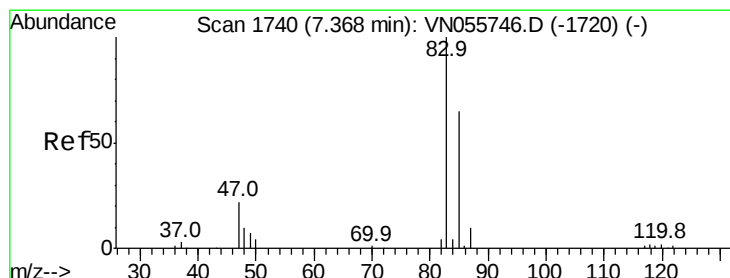
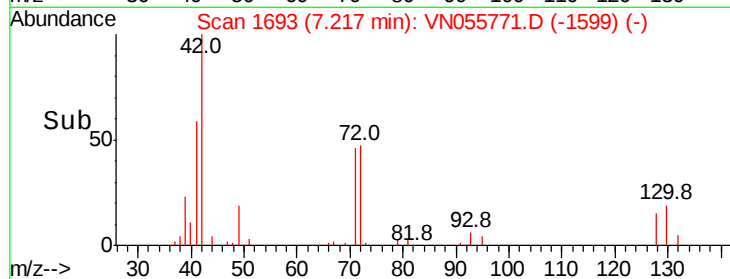
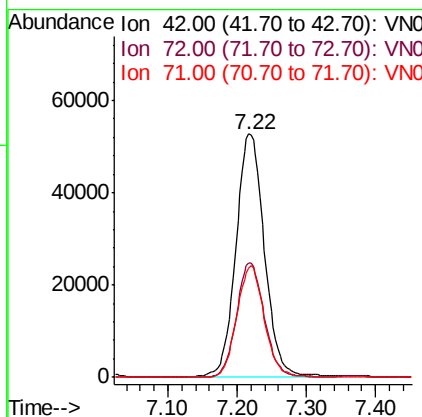
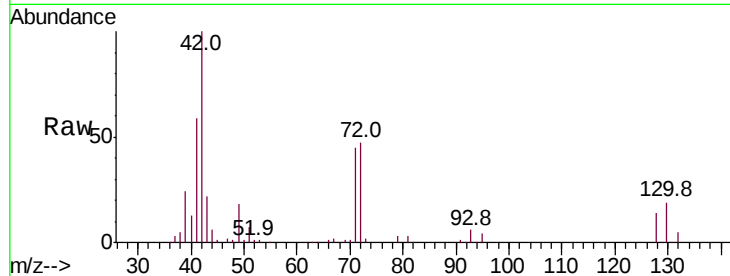
#29
Tetrahydrofuran
Concen: 96.534 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.8	35.9	53.9
71	43.7	34.0	51.0

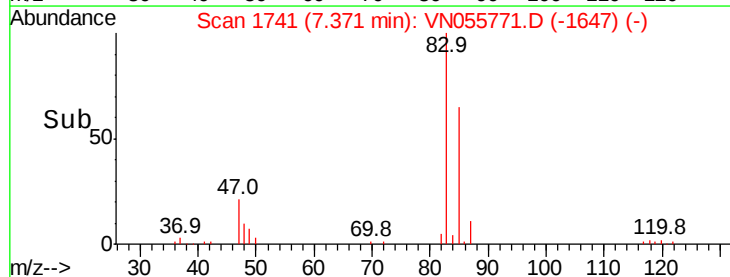
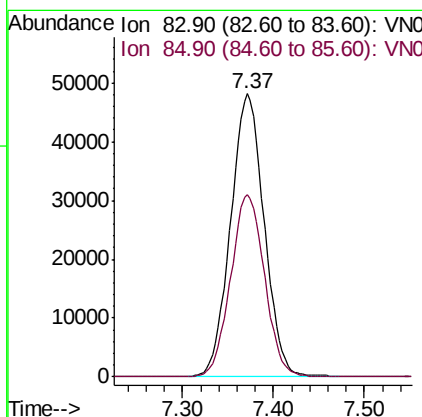
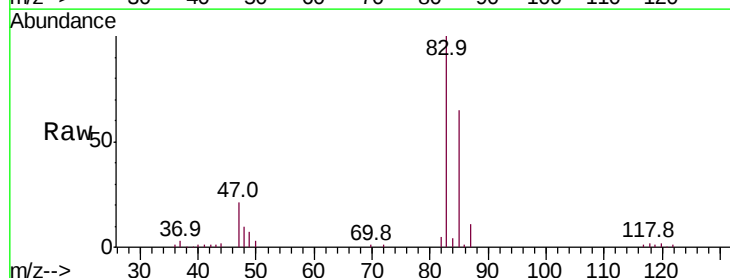
Manual Integrations
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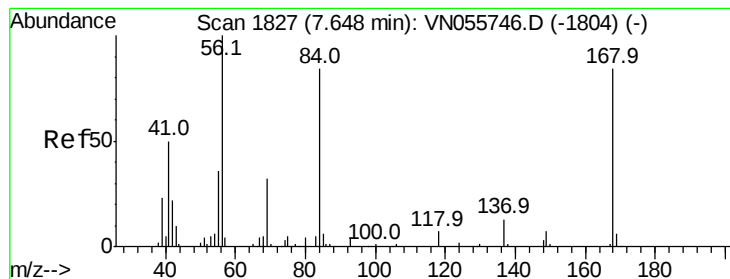
MMDadoda
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#30
Chloroform
Concen: 19.099 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.8





#31

Cyclohexane

Concen: 18.713 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 56 Resp: 113795

Ion Ratio Lower Upper

56 100

69 36.5 25.6 38.4

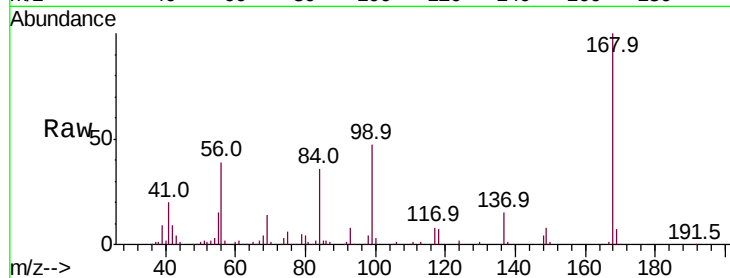
84 90.9 67.4 101.0

Manual Integrations

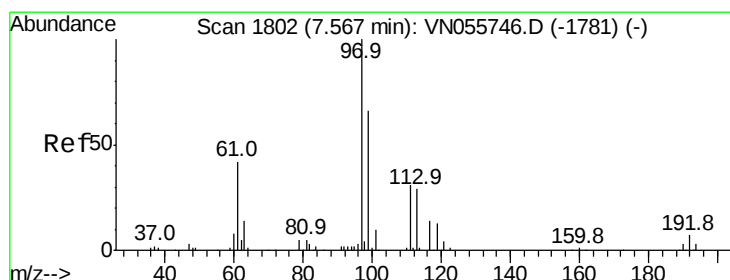
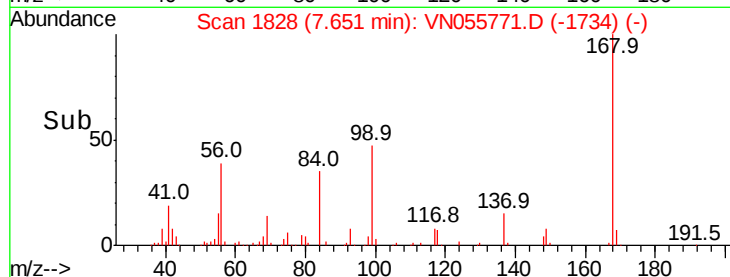
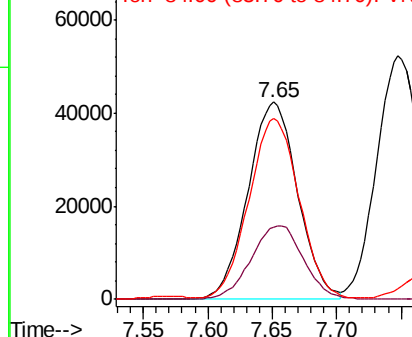
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Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 19.003 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

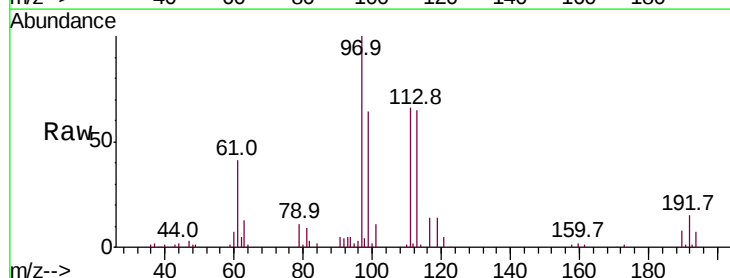
Tgt Ion: 97 Resp: 109537

Ion Ratio Lower Upper

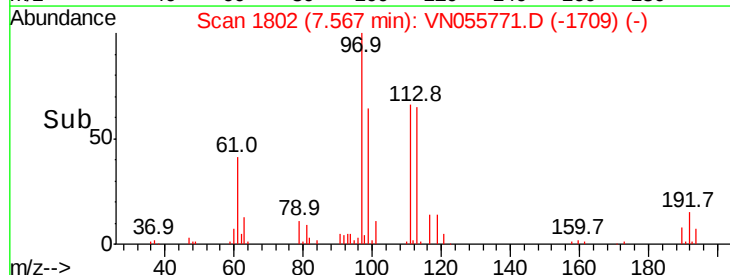
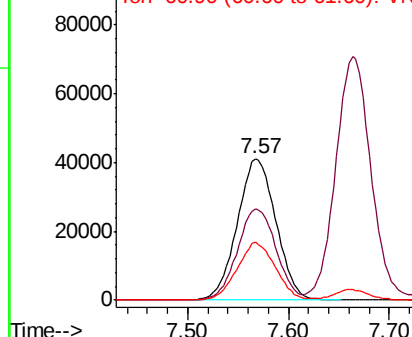
97 100

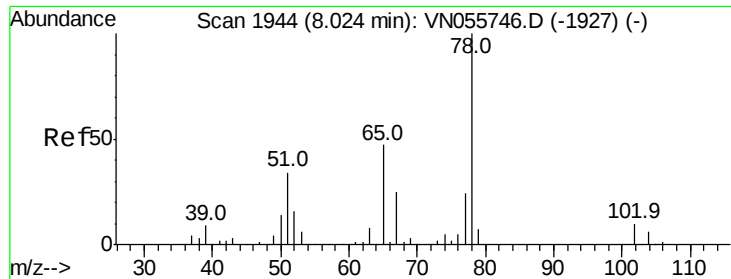
99 64.6 52.0 78.0

61 40.4 32.9 49.3



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





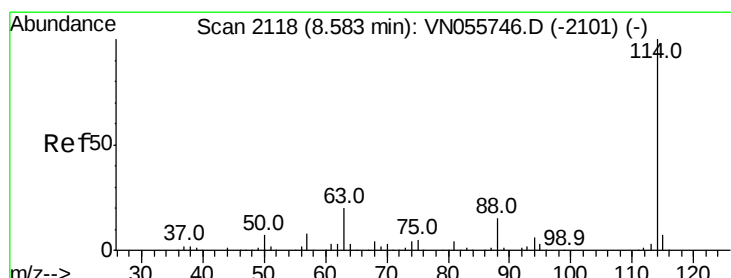
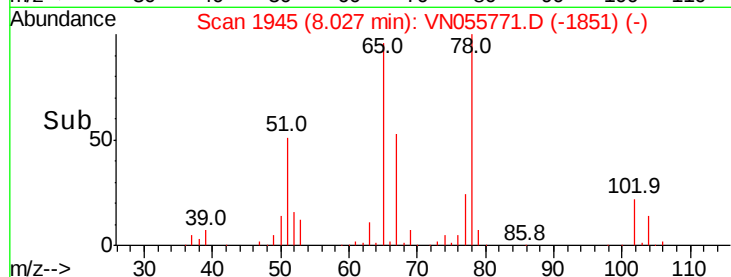
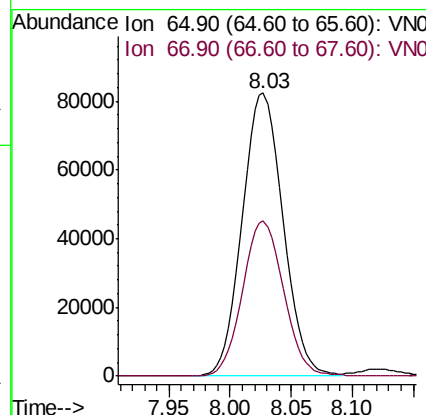
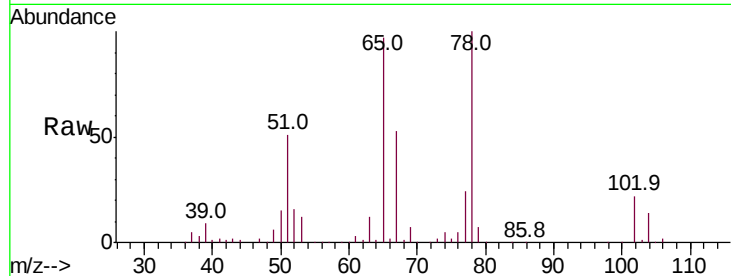
#33
 1,2-Dichloroethane-d4
 Concen: 47.269 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	55.0	0.0	109.2	

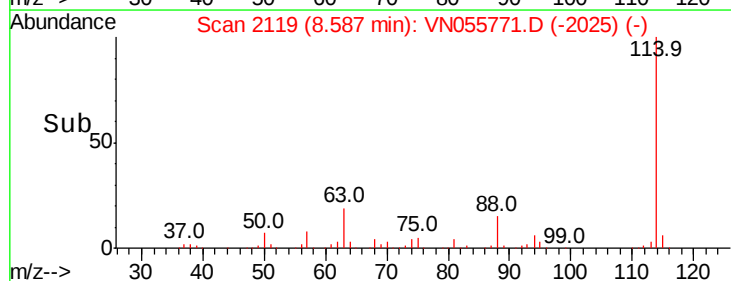
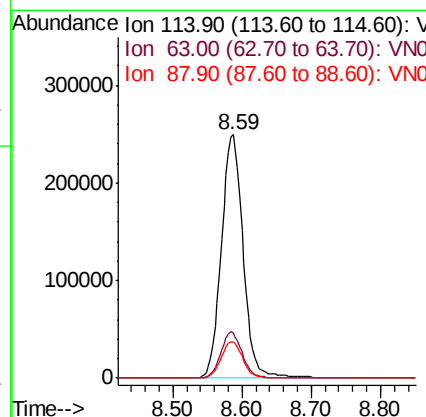
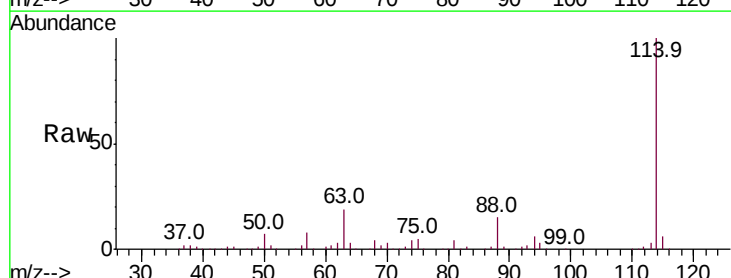
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.6	0.0	39.2	
88	15.1	0.0	31.0	





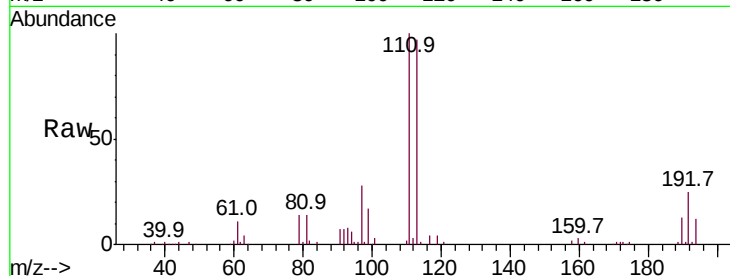
#35
 Dibromofluoromethane
 Concen: 50.365 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.7	81.9	122.9	
192	25.9	19.5	29.3	

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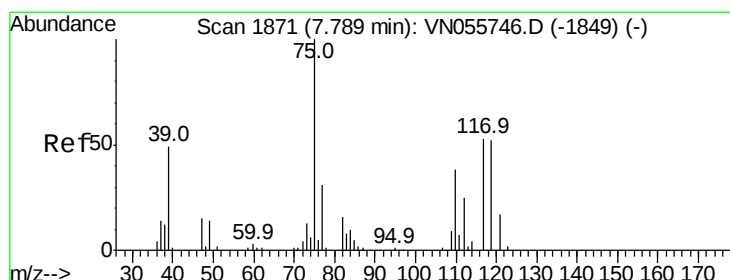
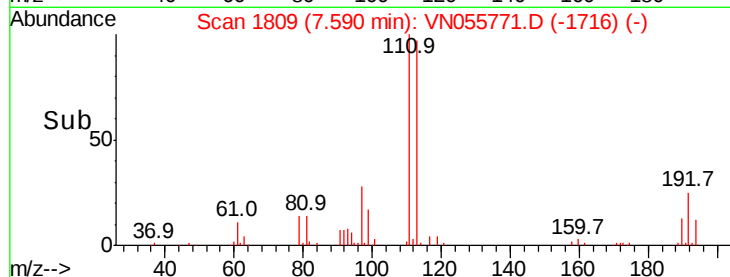
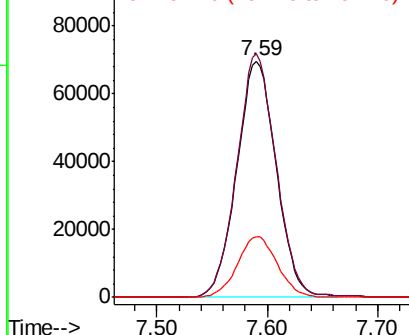


Abundance

Ion 112.80 (112.50 to 113.50): V

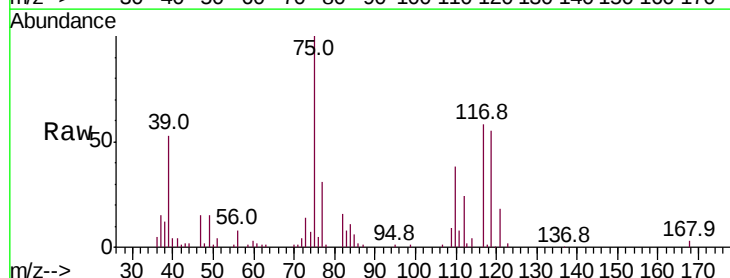
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 19.123 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	38.2	19.0	57.0	
77	31.1	25.1	37.7	

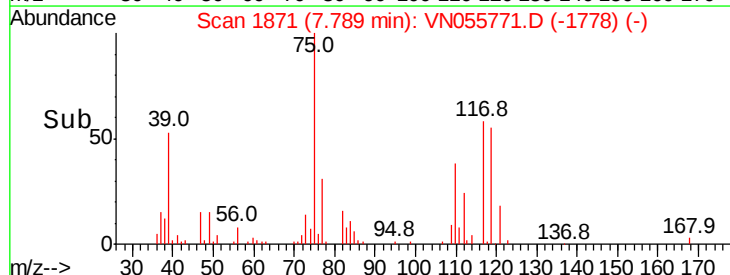
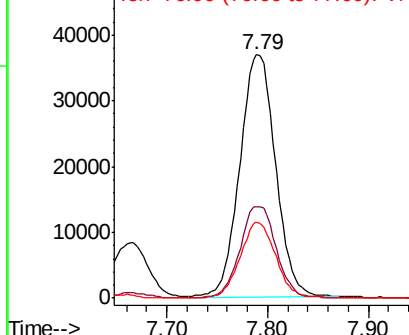


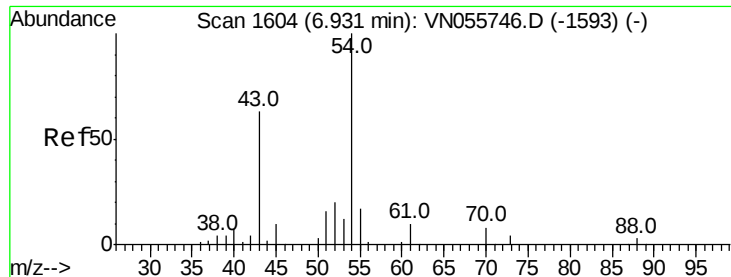
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





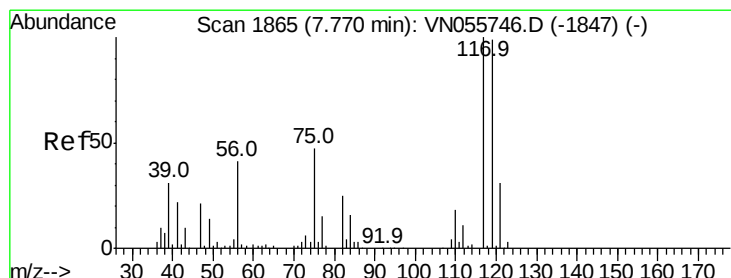
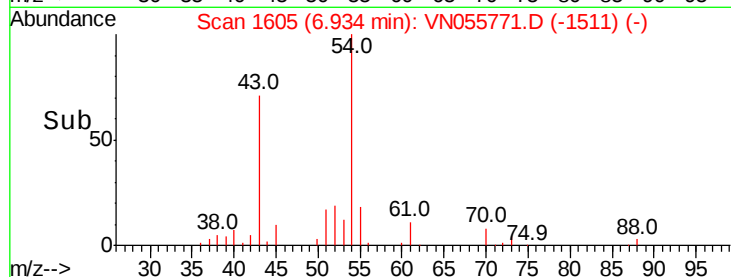
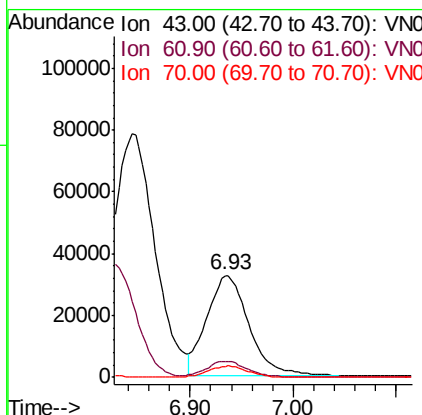
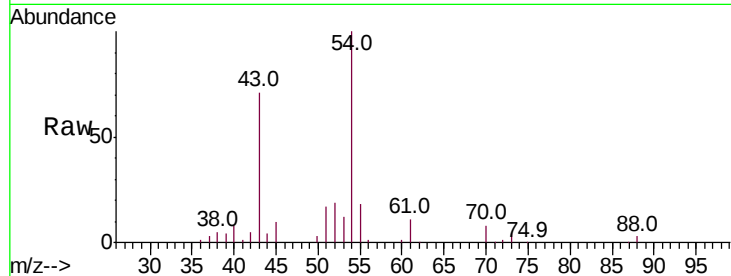
#37
Ethyl Acetate
Concen: 20.198 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	12.2	18.2
70	10.9	8.9	13.3

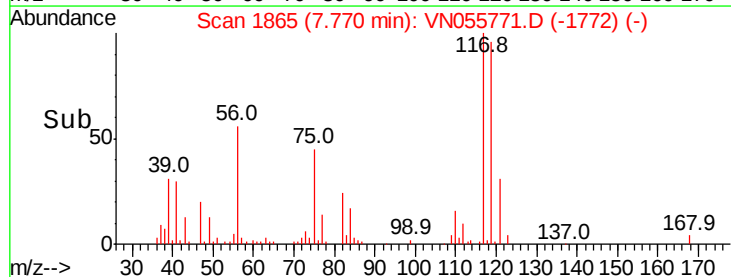
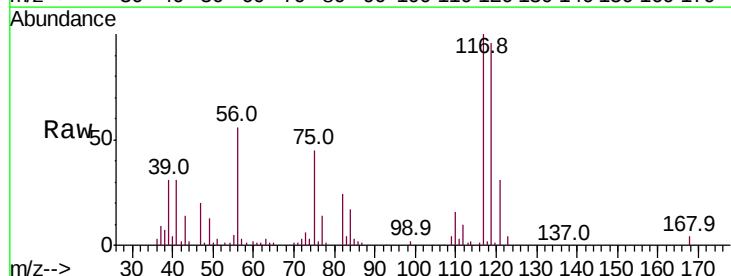
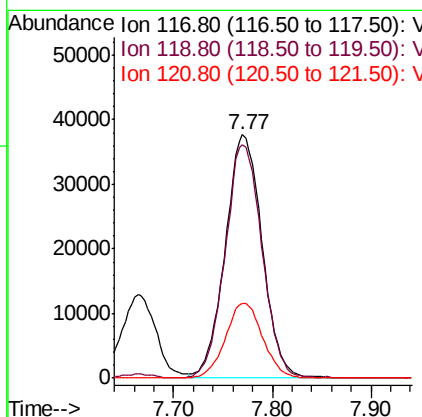
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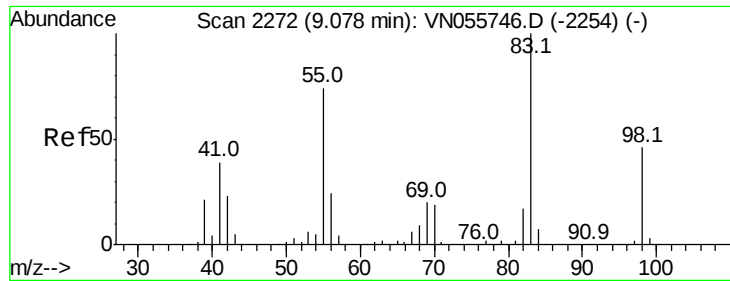
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#38
Carbon Tetrachloride
Concen: 19.917 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.1	79.0	118.6
121	30.9	24.7	37.1





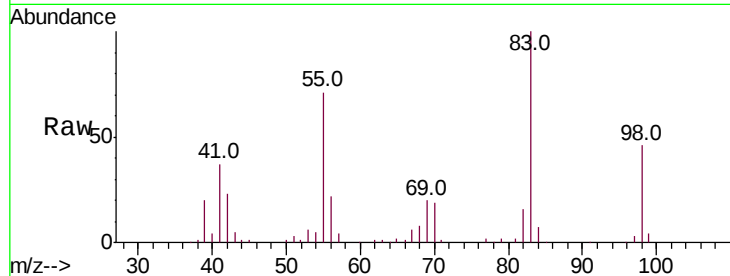
#39
Methvlcvclohexane
Concen: 19.346 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

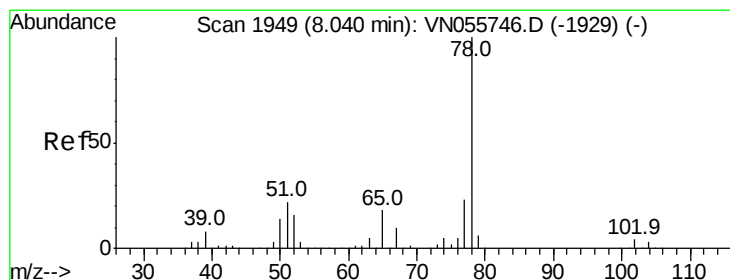
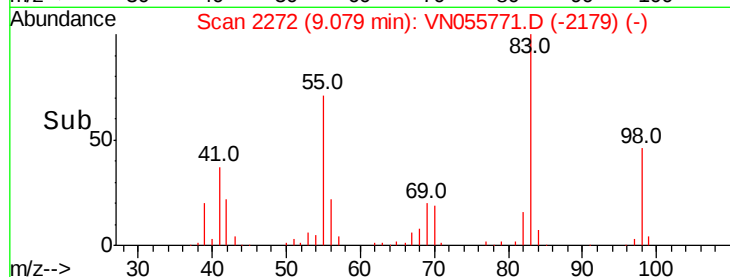
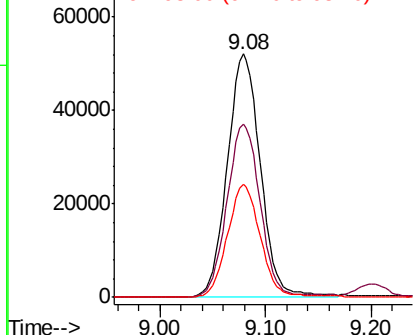
Tot Ion	Ratio	Lower	Upper
83	100		
55	71.1	59.3	88.9
98	46.3	36.6	54.8

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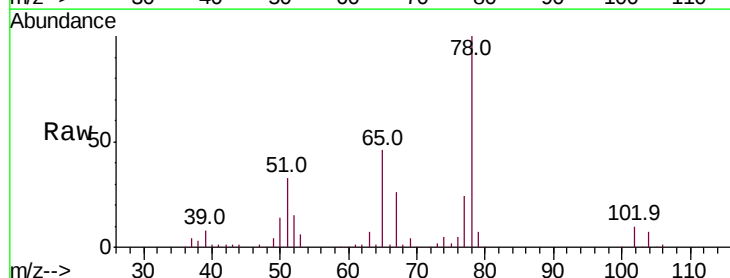


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

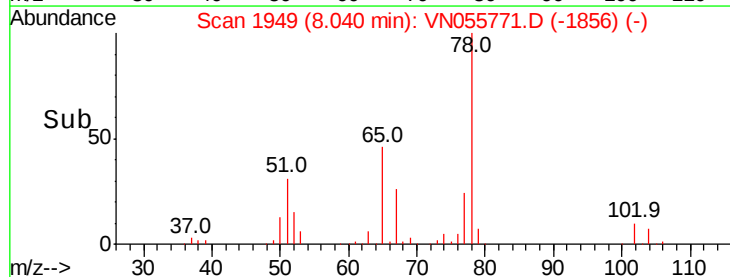
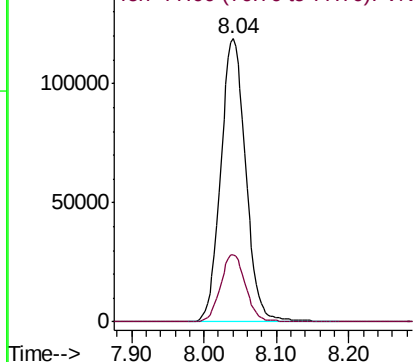


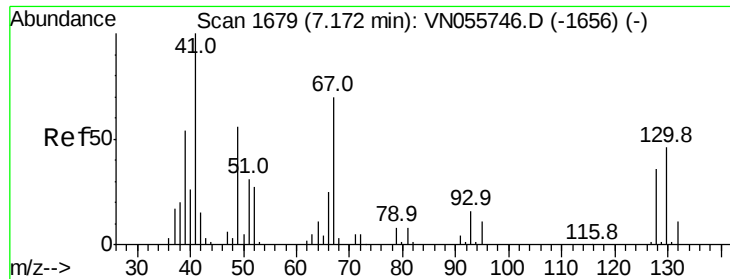
#40
Benzene
Concen: 19.964 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.8	28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#41

Methacrylonitrile

Concen: 19.386 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 41 Resp: 44848

Ion Ratio Lower Upper

41 100

39 49.5 45.6 68.4

67 86.0 67.7 101.5

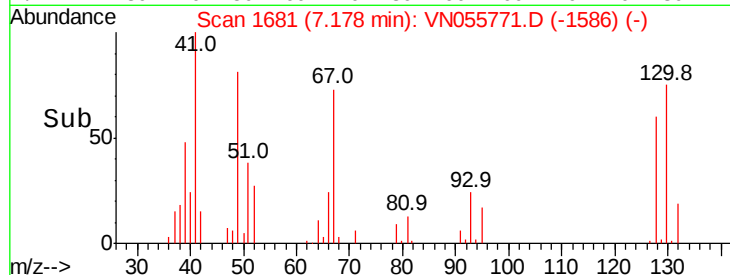
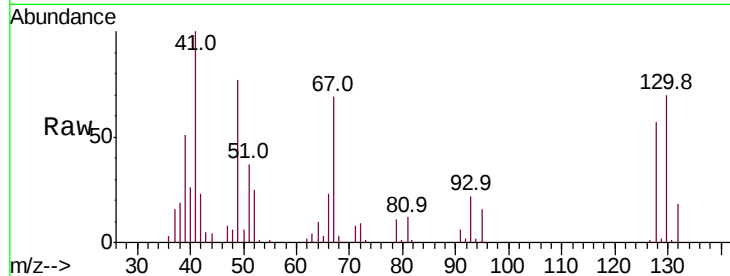
52 32.5 26.6 40.0

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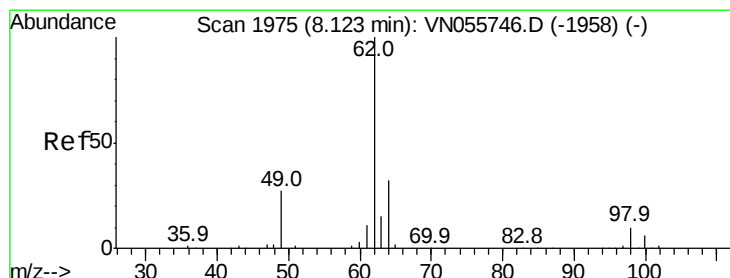
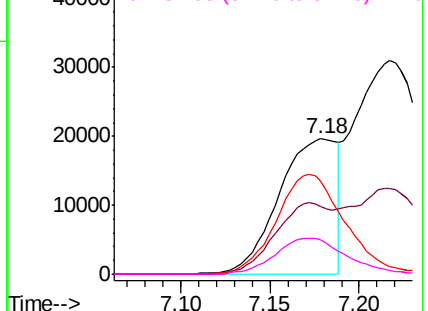


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 19.765 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. 0.00 min

Lab File: VN055771.D

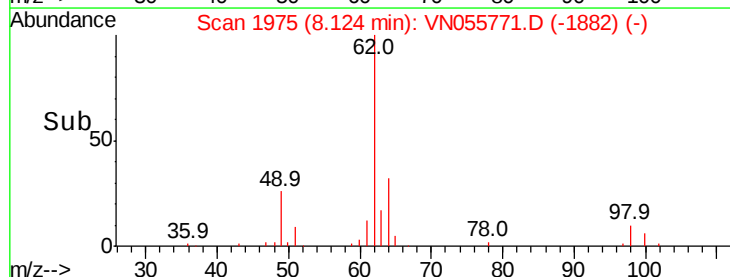
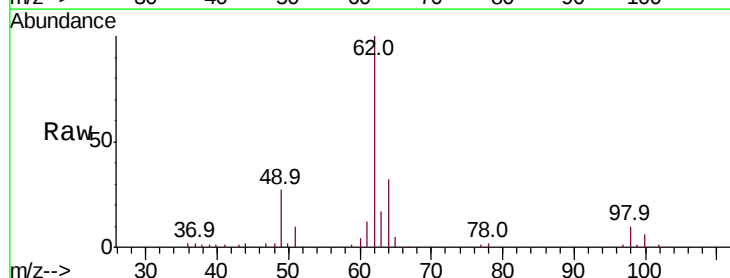
Acq: 23 May 2019 22:37

Tgt Ion: 62 Resp: 92222

Ion Ratio Lower Upper

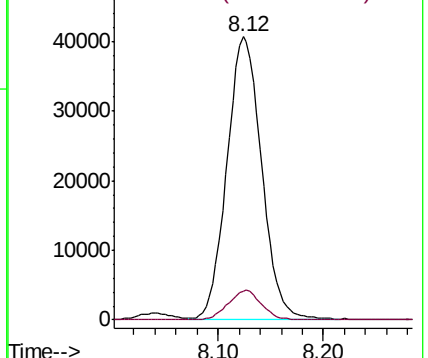
62 100

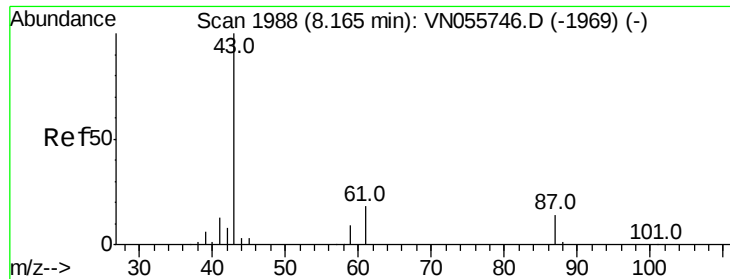
98 10.0 0.0 20.2



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 19.129 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

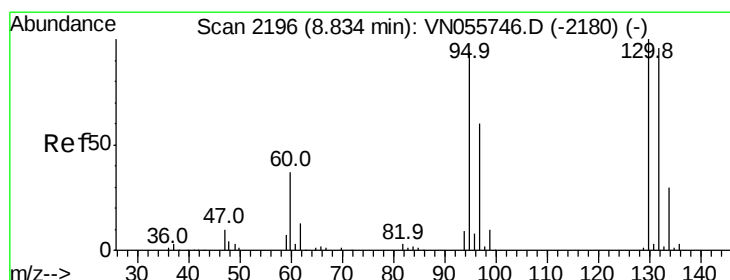
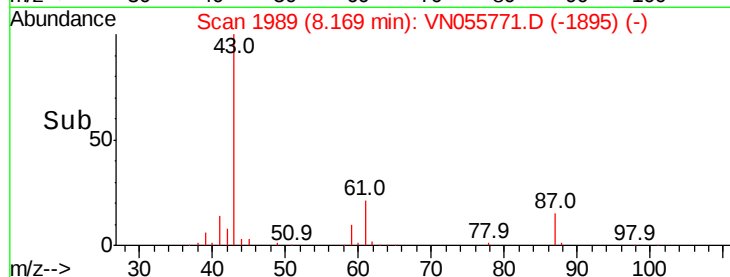
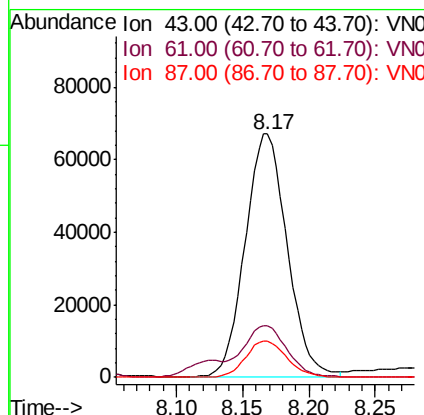
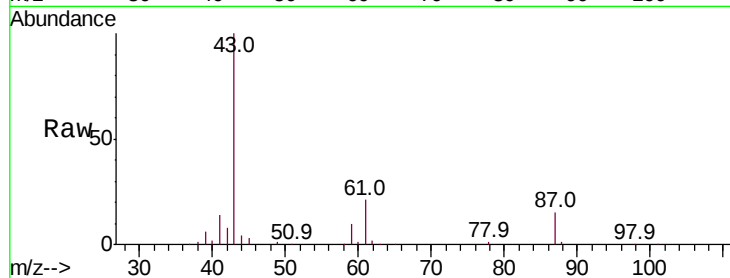
ClientSampleId :

VN0523MBS01

Tot Ion:	43	Resp:	147177
Ion	Ratio	Lower	Upper
43	100		
61	22.4	22.2	33.4
87	15.0	11.4	17.2

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#44

Trichloroethene

Concen: 20.716 ug/l

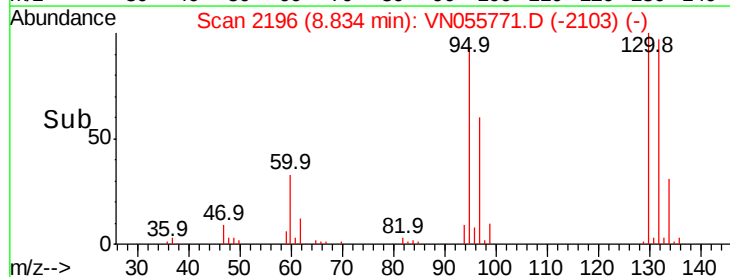
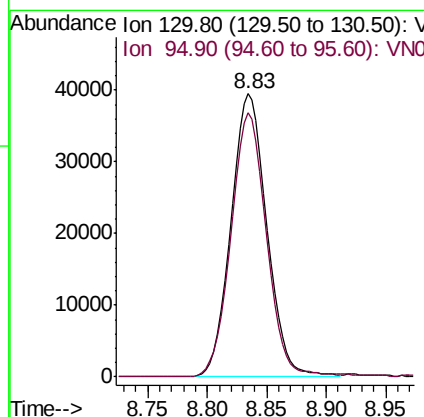
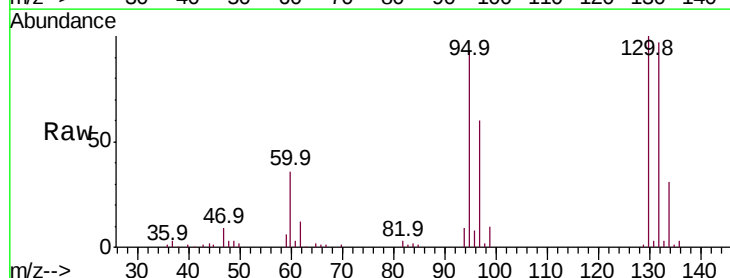
RT: 8.83 min Scan# 2196

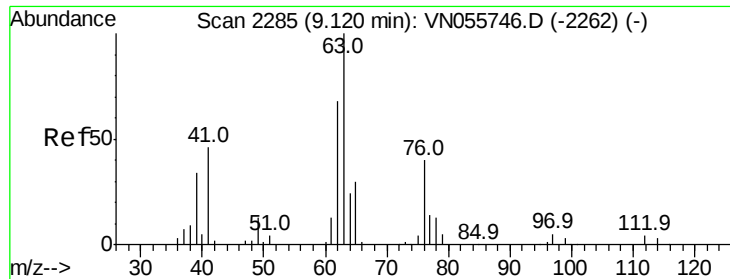
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	130	Resp:	82468
Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	188.0





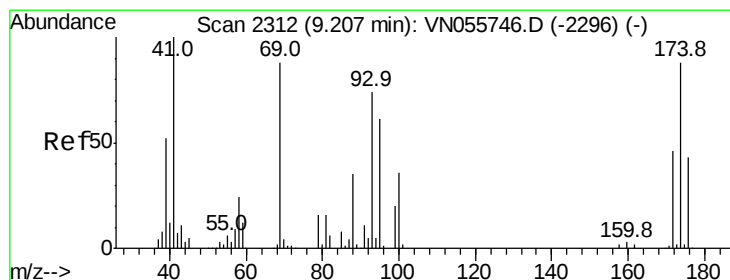
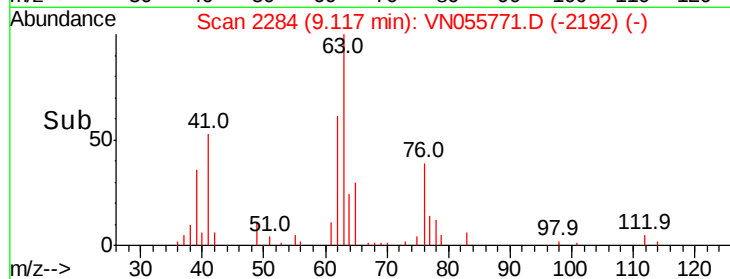
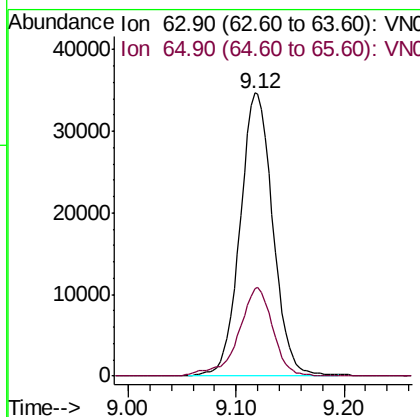
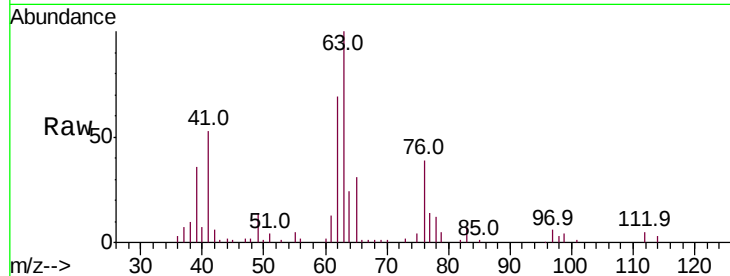
#45
 1,2-Dichloropropane
 Concen: 19.746 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion: 63 Resp: 73460
 Ion Ratio Lower Upper
 63 100
 65 31.0 24.6 36.8

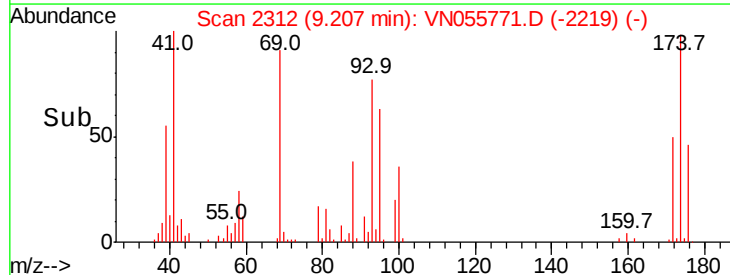
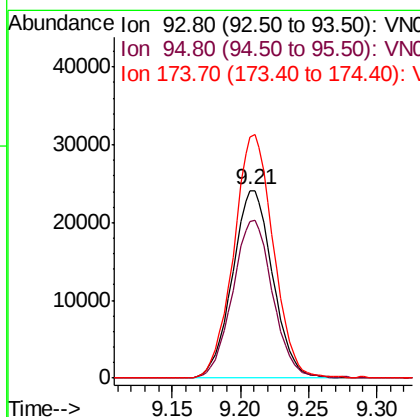
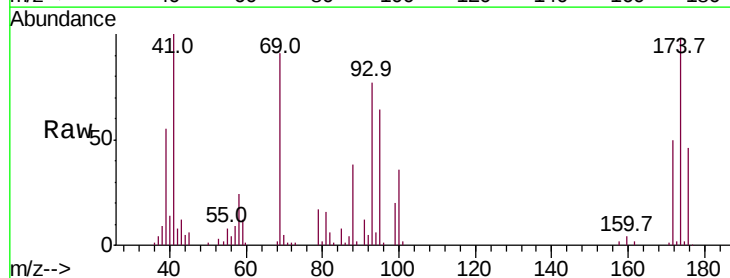
Manual Integrations
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#46
 Dibromomethane
 Concen: 20.300 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion: 93 Resp: 49528
 Ion Ratio Lower Upper
 93 100
 95 83.2 66.7 100.1
 174 127.6 96.4 144.6





#47

Bromodichloromethane

Concen: 19.452 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

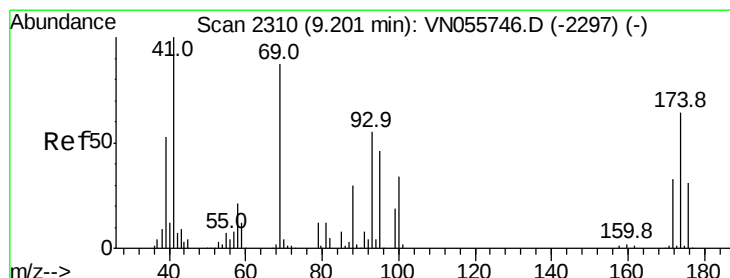
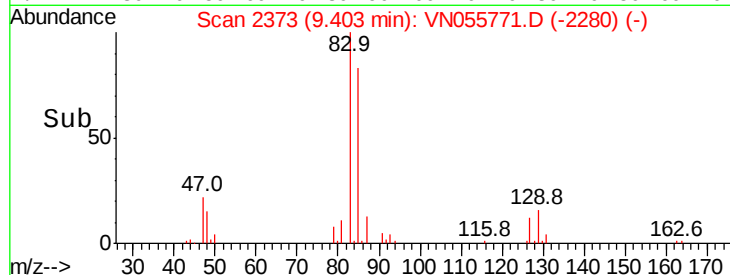
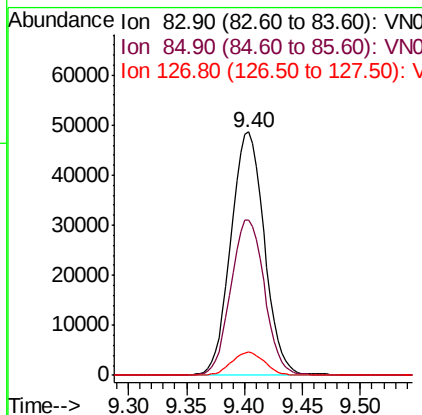
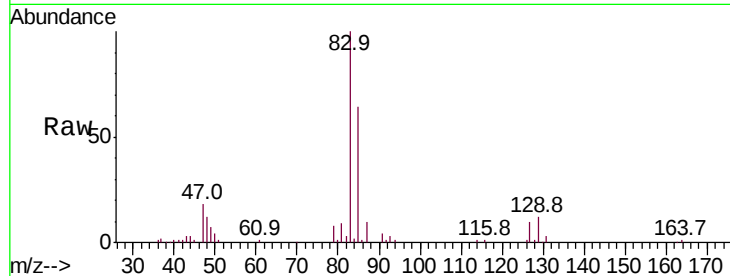
ClientSampleId :

VN0523MBS01

Tot Ion:	83	Resp:	97317
Ion Ratio	Lower	Upper	
83	100		
85	63.9	52.2	78.2
127	9.6	7.4	11.0

Manual Integrations
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MMDadoda
5/24/2019 9:24:05 AM



#48

Methyl methacrylate

Concen: 19.830 ug/l

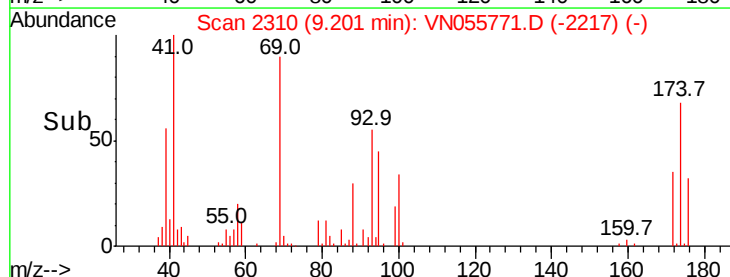
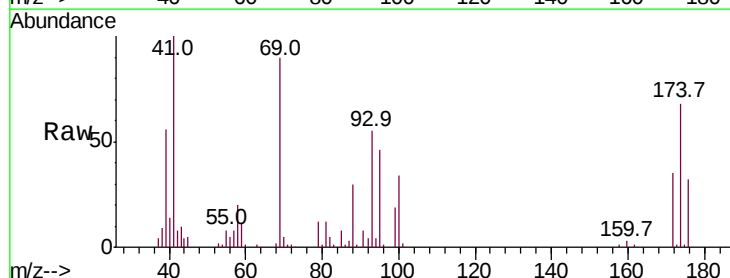
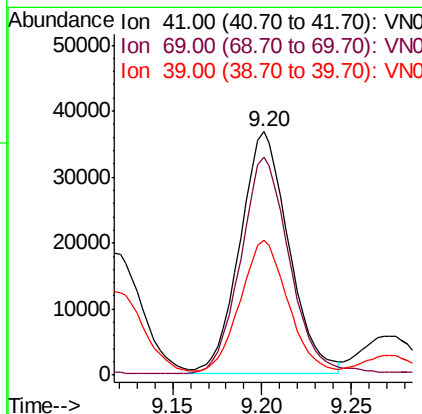
RT: 9.20 min Scan# 2310

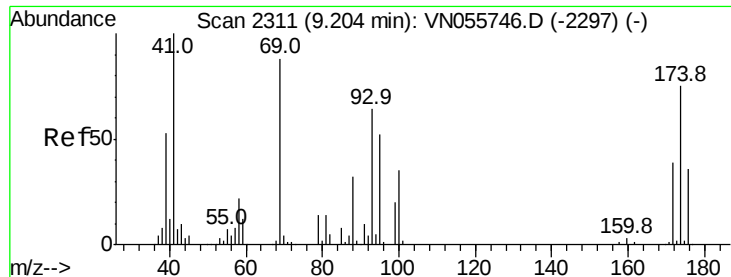
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	41	Resp:	70314
Ion Ratio	Lower	Upper	
41	100		
69	89.7	71.0	106.6
39	55.1	44.2	66.2





#49

1,4-Dioxane

Concen: 417.115 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 88 Resp: 30736

Ion Ratio Lower Upper

88 100

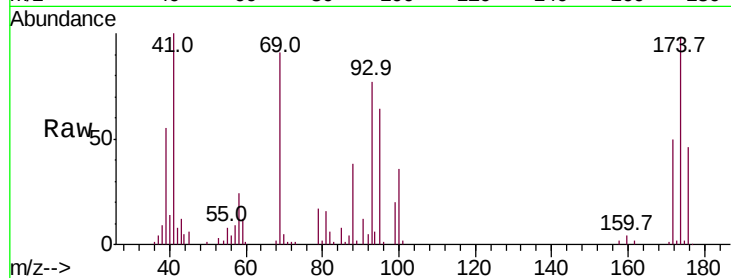
43 24.5 20.5 30.7

58 66.8 55.8 83.6

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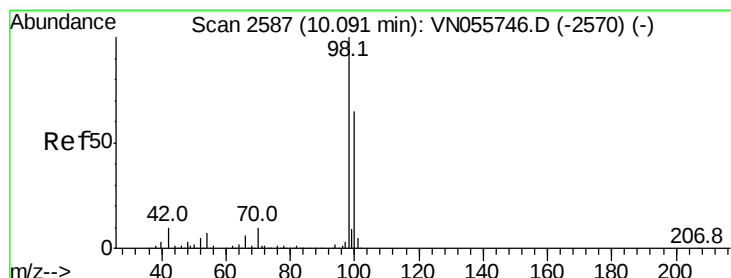
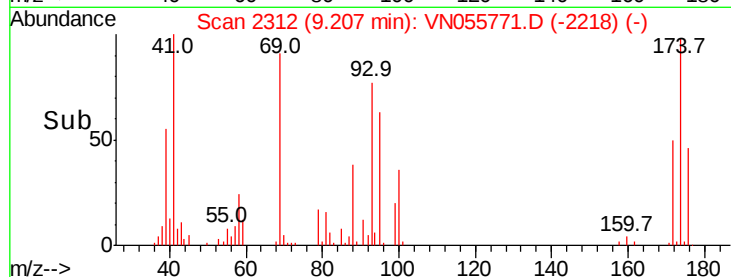
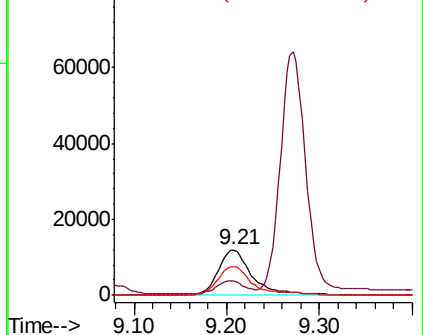
5/24/2019 9:24:05 AM



Abundance Ion 88.00 (87.70 to 88.70): VN055771.D (-2218) (-)

Ion 43.00 (42.70 to 43.70): VN055771.D (-2218) (-)

Ion 58.00 (57.70 to 58.70): VN055771.D (-2218) (-)



#50

Toluene-d8

Concen: 49.986 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055771.D

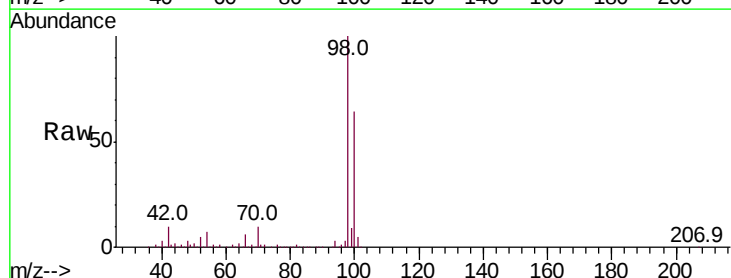
Acq: 23 May 2019 22:37

Tgt Ion: 98 Resp: 659070

Ion Ratio Lower Upper

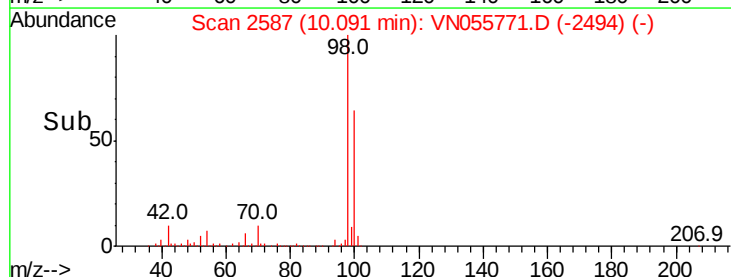
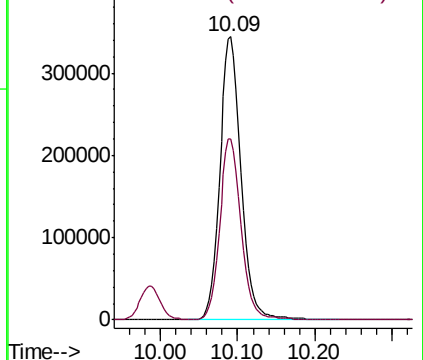
98 100

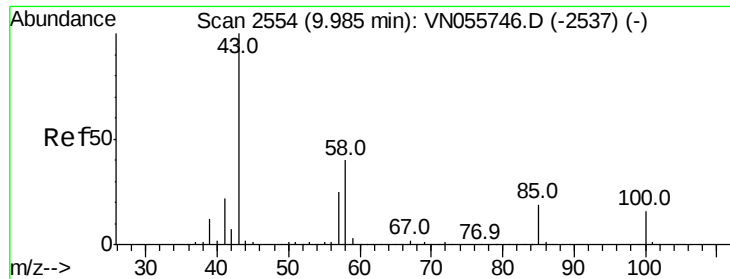
100 64.1 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055771.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055771.D (-2494) (-)





#51

4-Methyl-2-Pentanone

Concen: 100.049 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampled :

VN0523MBS01

Tot Ion: 43 Resp: 454625

Ion Ratio Lower Upper

43 100

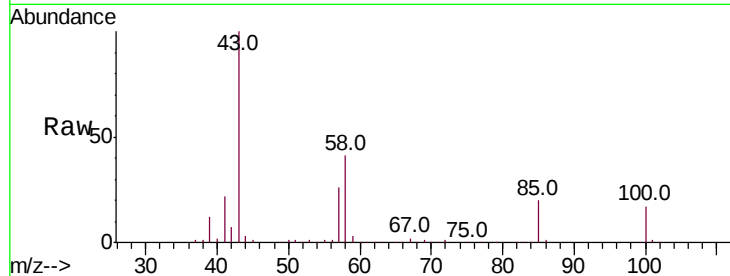
58 40.4 32.1 48.1

Manual Integrations

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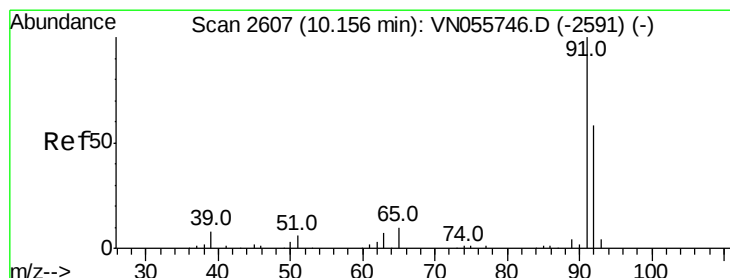
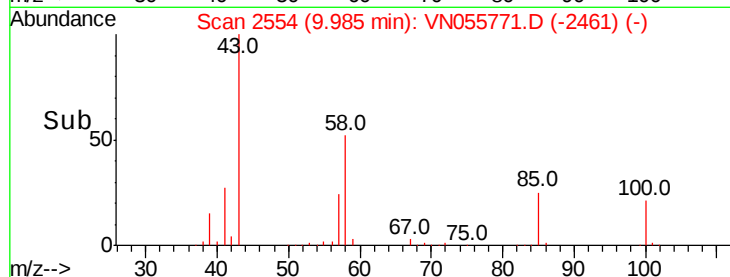
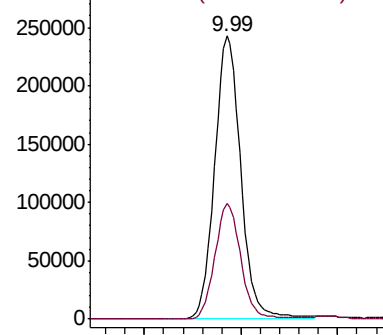
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 20.169 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055771.D

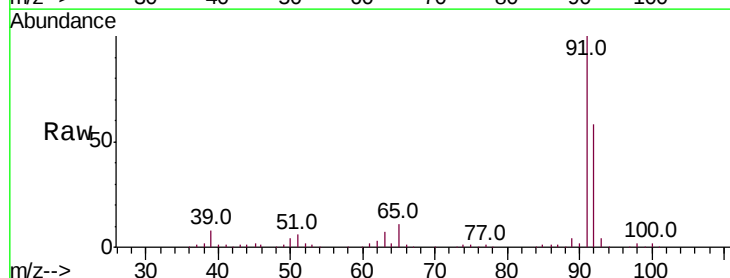
Acq: 23 May 2019 22:37

Tgt Ion: 92 Resp: 181129

Ion Ratio Lower Upper

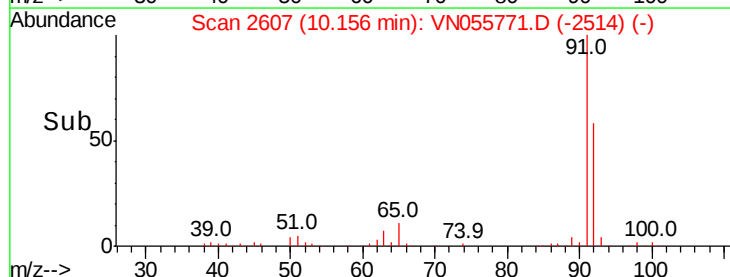
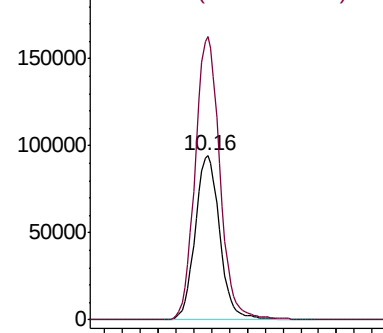
92 100

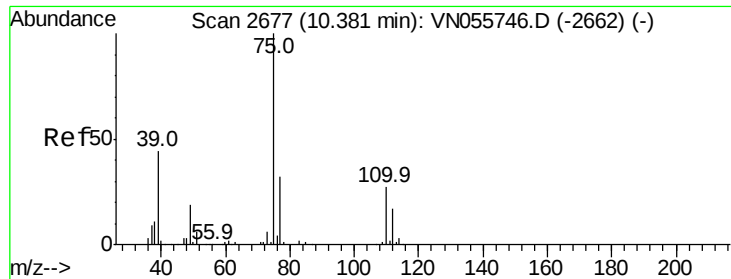
91 173.0 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





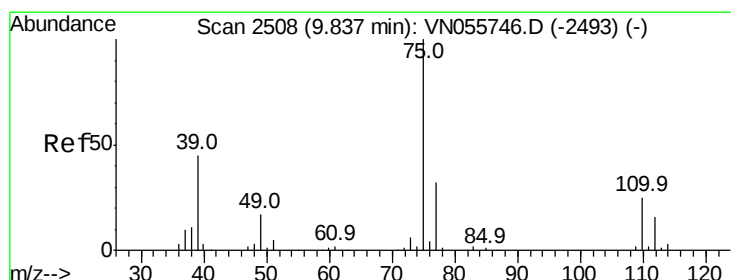
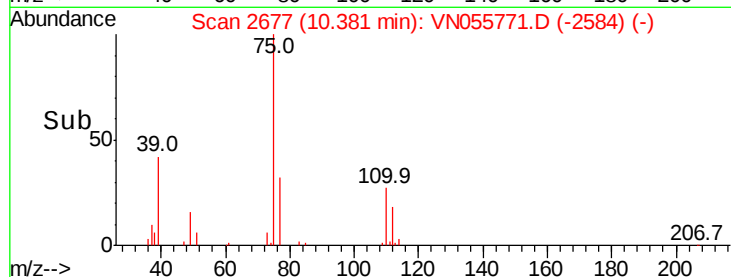
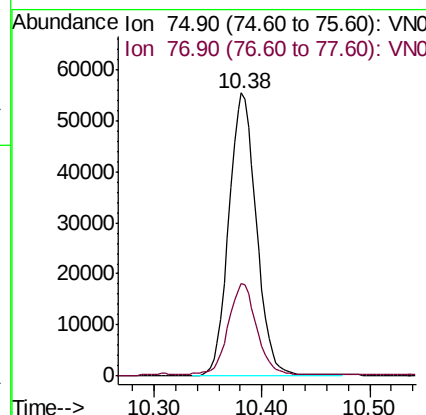
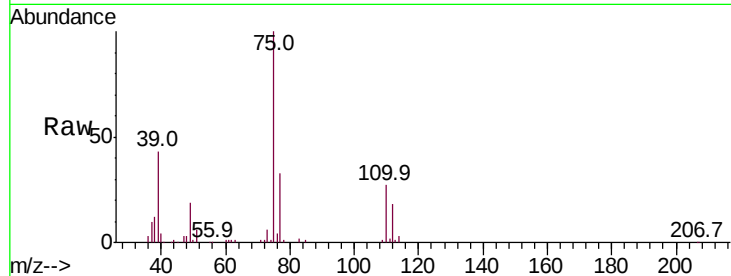
#53
t-1,3-Dichloropropene
Concen: 18.525 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.8	38.6

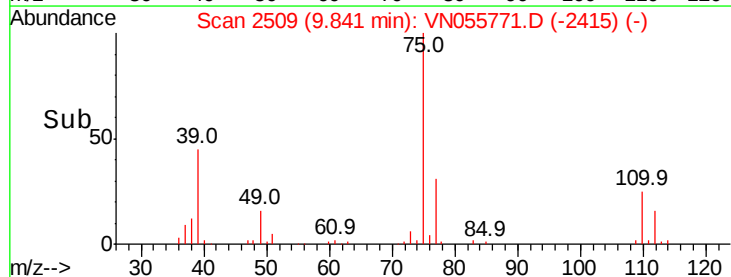
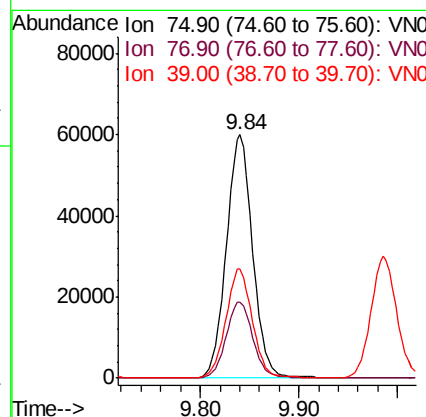
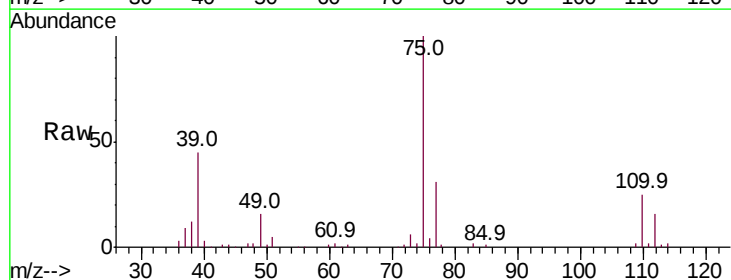
Manual Integrations
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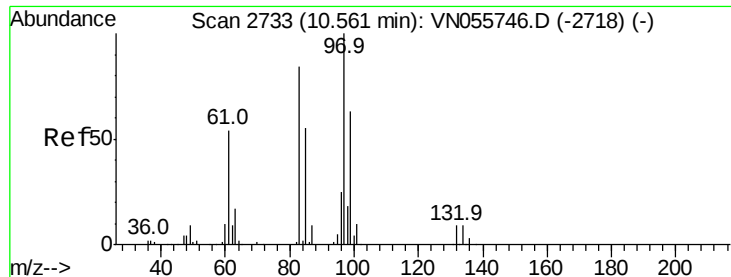
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#54
cis-1,3-Dichloropropene
Concen: 18.931 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.4	38.0
39	44.6	36.3	54.5





#55

1,1,2-Trichloroethane

Concen: 20.102 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 97 Resp: 72320

Ion Ratio Lower Upper

97 100

83 82.0 67.0 100.6

85 54.1 44.0 66.0

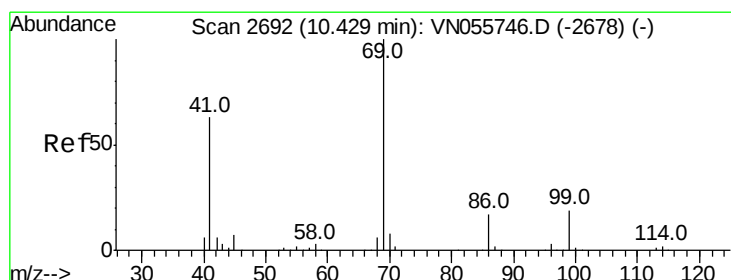
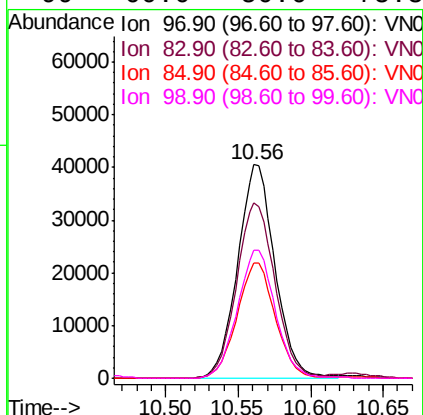
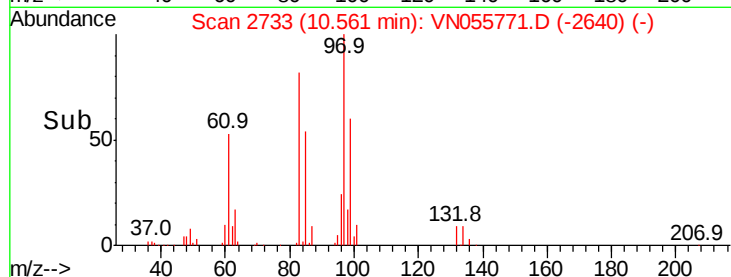
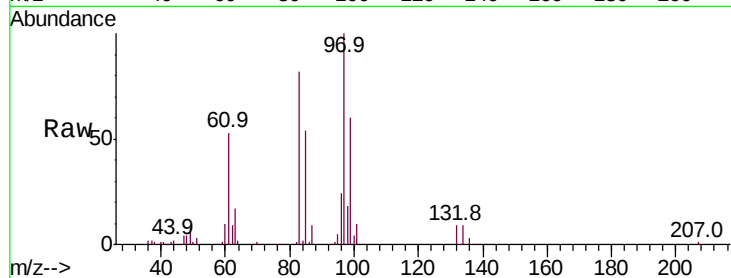
99 60.0 50.6 75.8

Manual Integrations

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#56

Ethyl methacrylate

Concen: 19.936 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

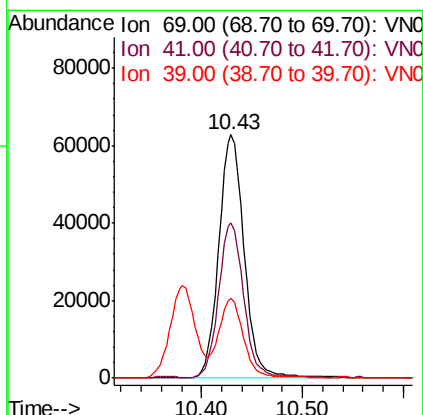
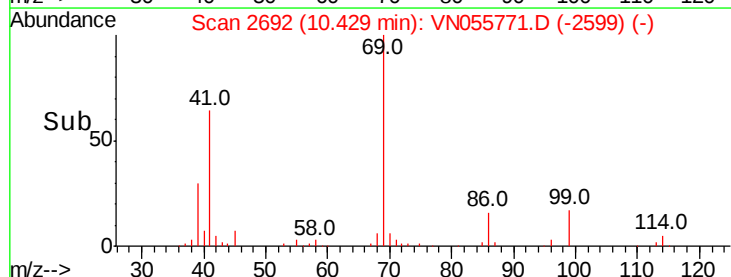
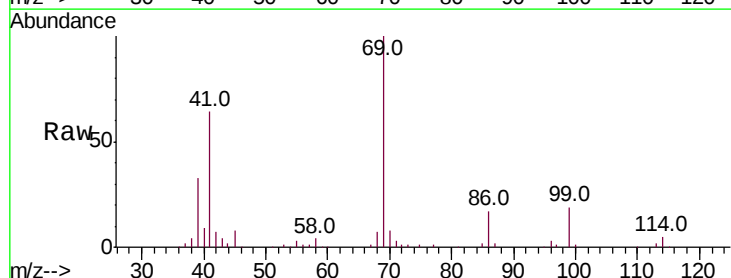
Tgt Ion: 69 Resp: 110847

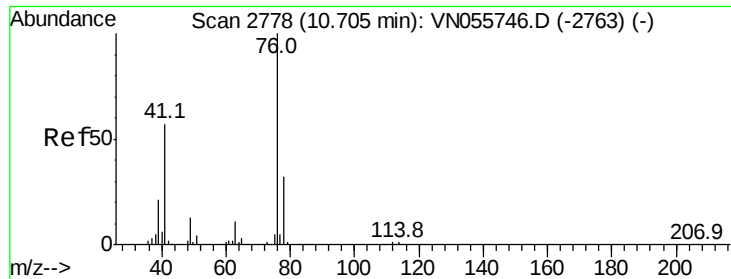
Ion Ratio Lower Upper

69 100

41 62.0 49.7 74.5

39 31.5 24.7 37.1





#57

1,3-Dichloropropane

Concen: 19.821 ug/l

RT: 10.71 min Scan# 2778

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 76 Resp: 115916

Ion Ratio Lower Upper

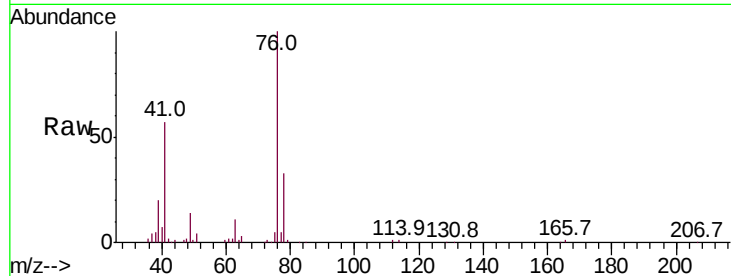
76 100

78 32.8 25.8 38.6

Manual Integrations
APPROVED

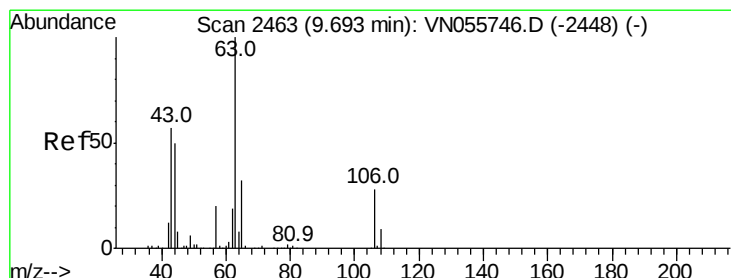
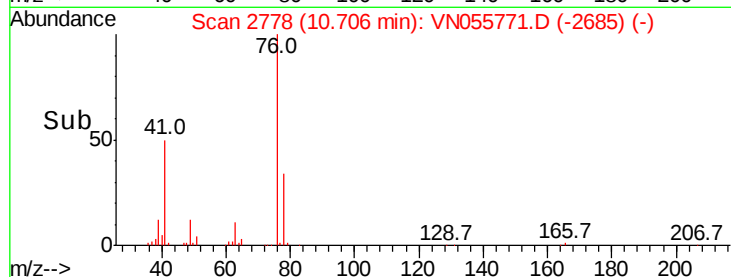
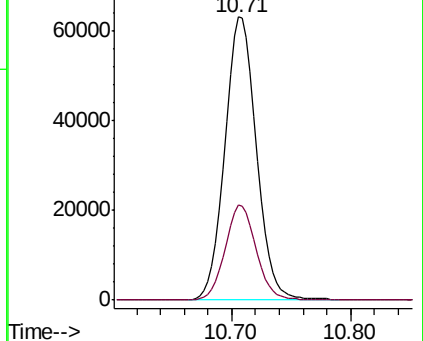
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 92.848 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN055771.D

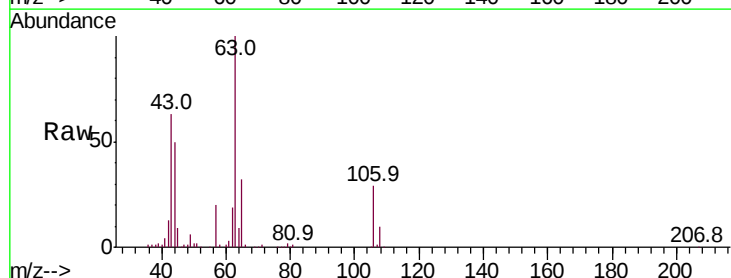
Acq: 23 May 2019 22:37

Tgt Ion: 63 Resp: 197291

Ion Ratio Lower Upper

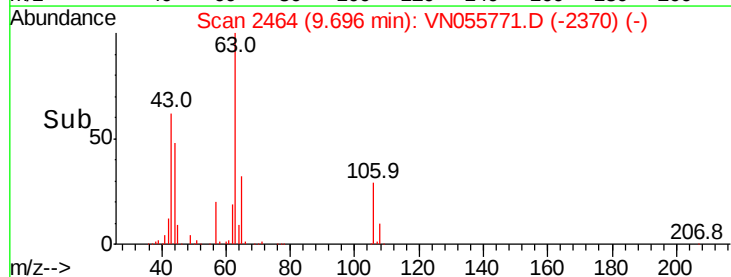
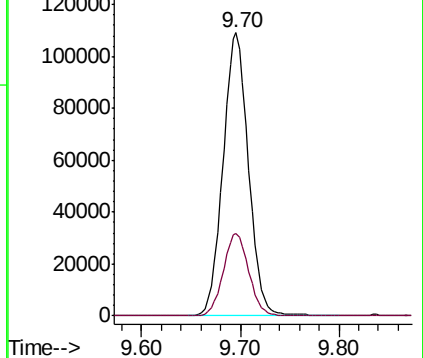
63 100

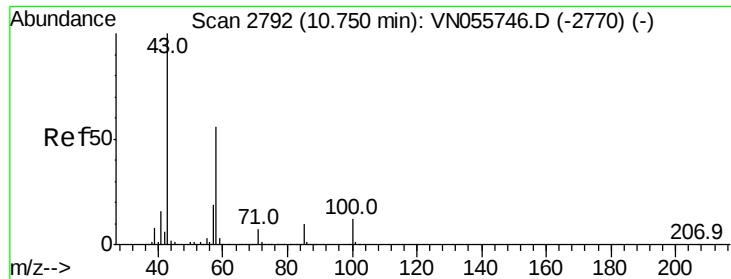
106 29.0 22.7 34.1



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





#59

2-Hexanone

Concen: 95.456 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 43 Resp: 307709

Ion Ratio Lower Upper

43 100

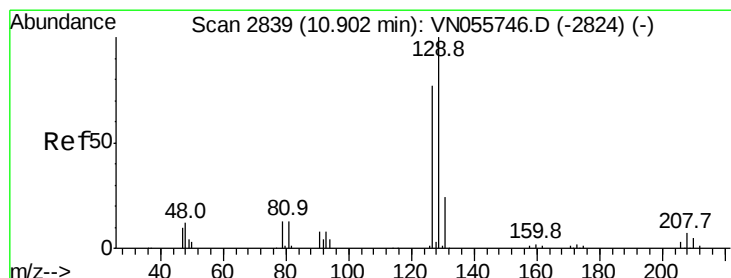
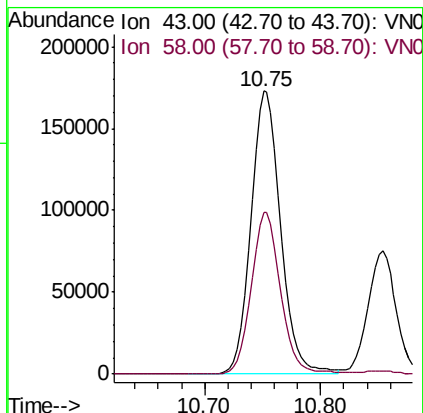
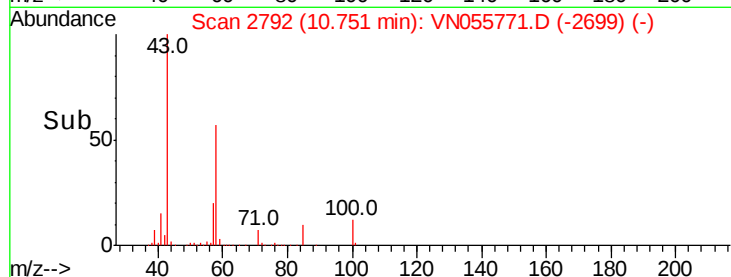
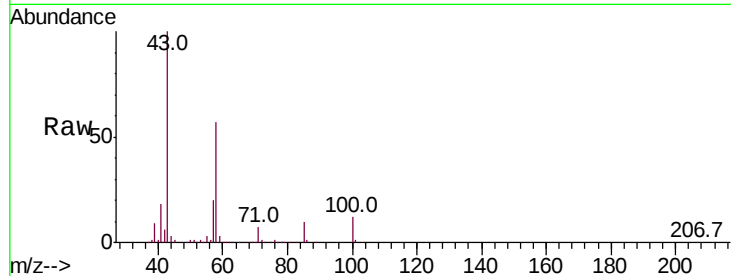
58 56.7 28.2 84.7

Manual Integrations

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#60

Dibromochloromethane

Concen: 19.918 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055771.D

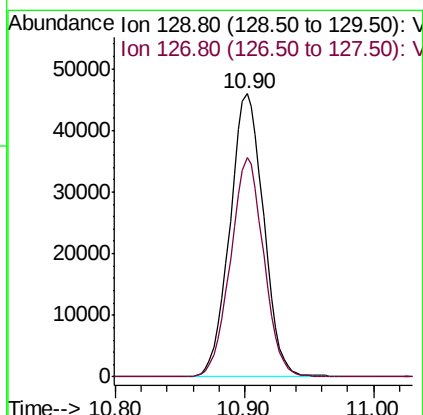
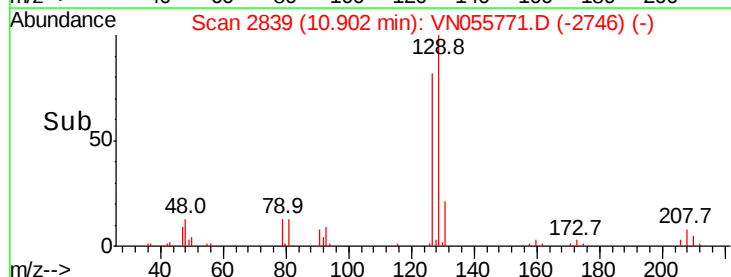
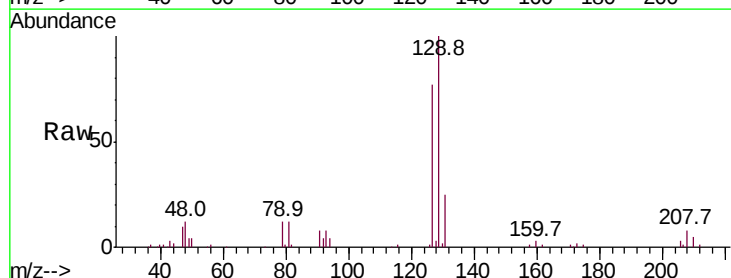
Acq: 23 May 2019 22:37

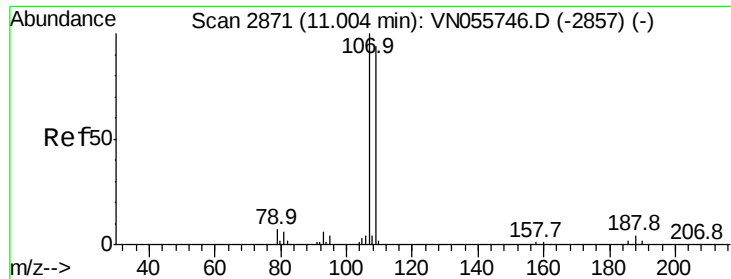
Tgt Ion: 129 Resp: 83478

Ion Ratio Lower Upper

129 100

127 76.2 38.1 114.3





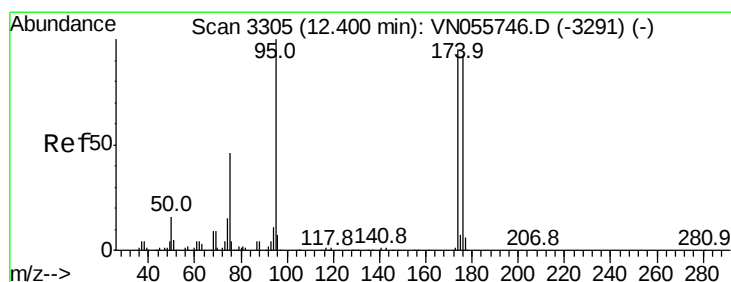
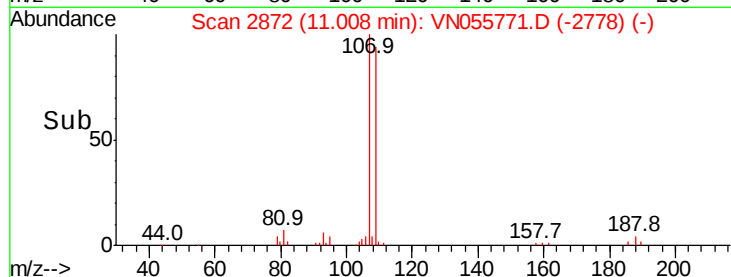
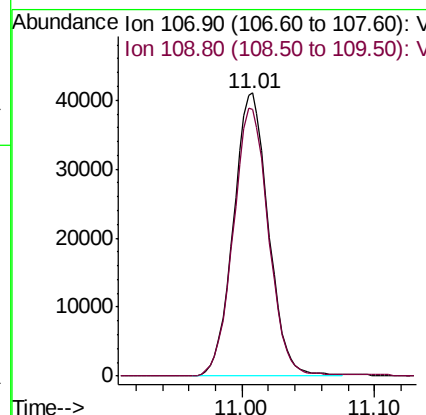
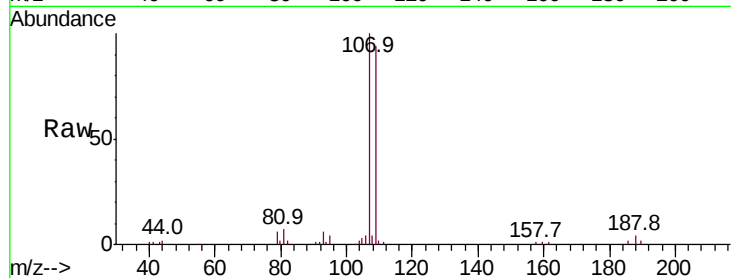
#61
 1,2-Dibromoethane
 Concen: 20.167 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.5	74.8	112.2

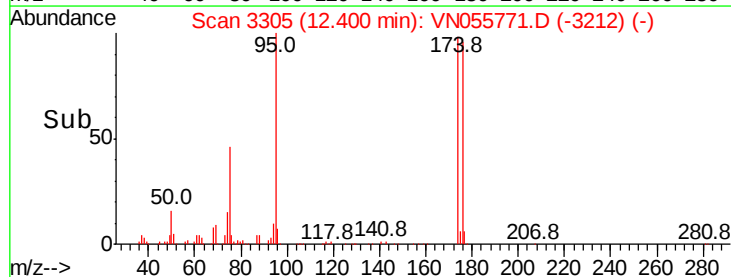
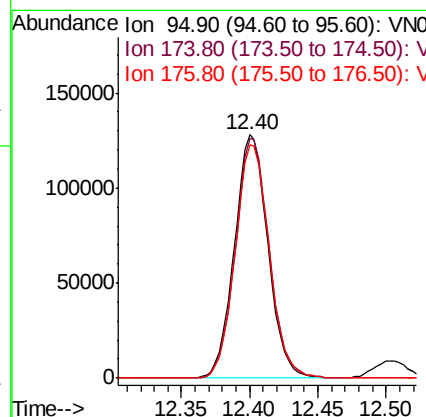
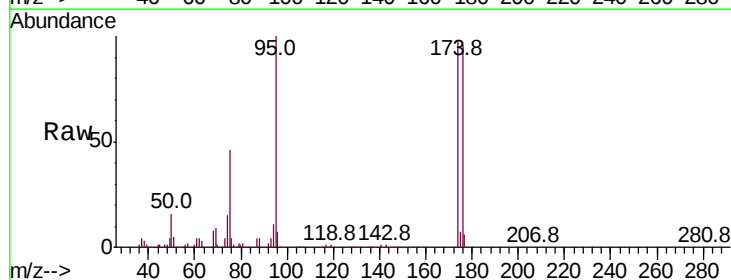
Manual Integrations
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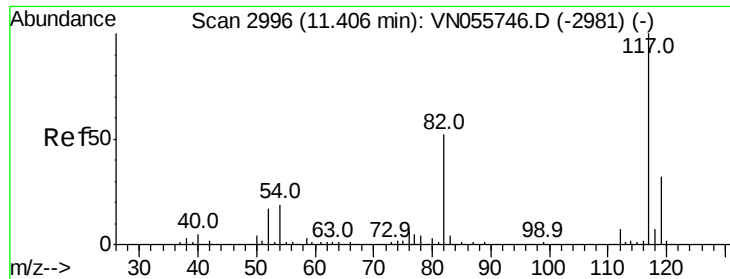
MMDadoda
 5/24/2019 9:24:05 AM



#62
 4-Bromofluorobenzene
 Concen: 48.196 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
95	100		
174	99.2	0.0	191.0
176	97.2	0.0	185.2





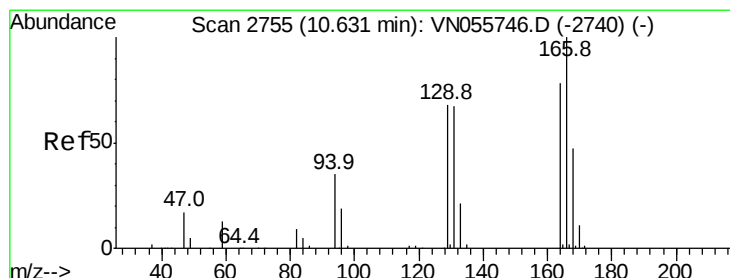
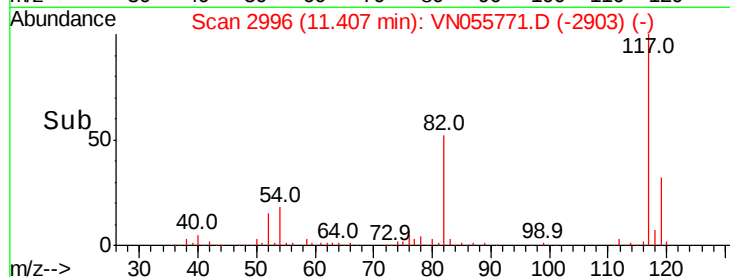
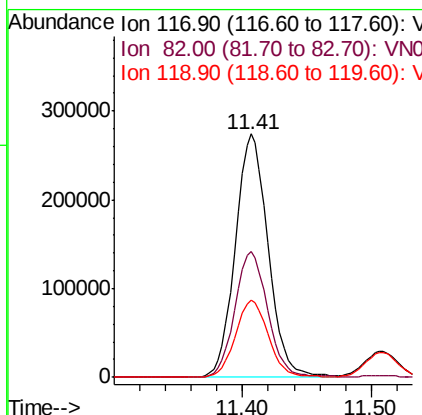
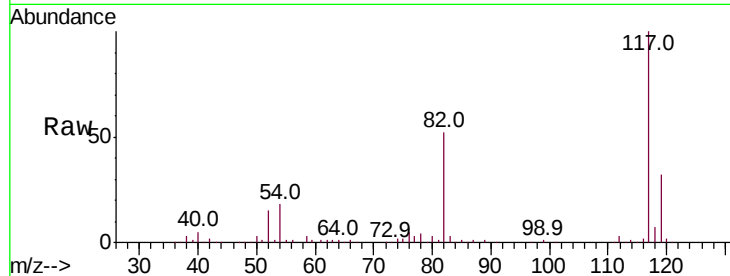
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	41.8	62.8
119	31.6	25.4	38.0

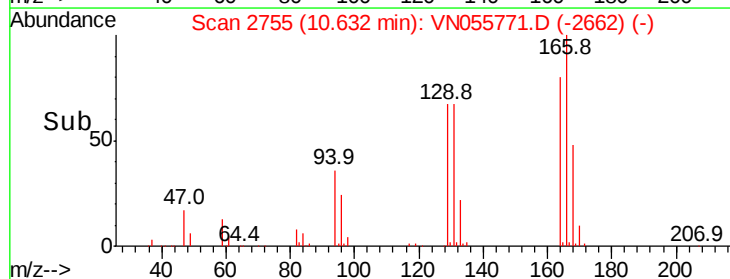
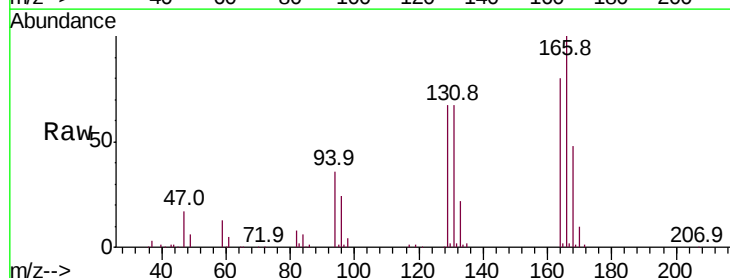
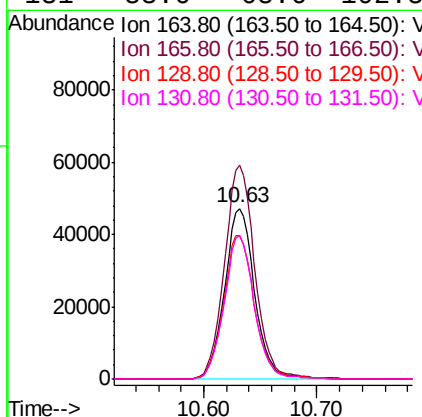
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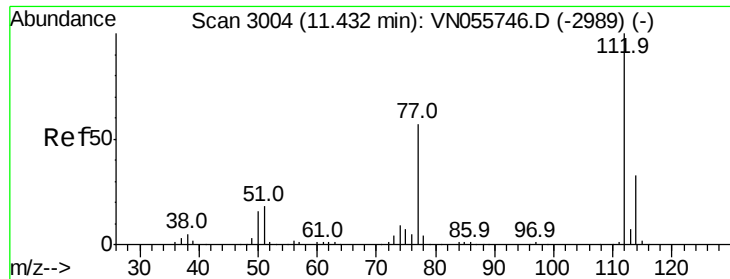
MMDadoda
5/24/2019 9:24:05 AM



#64
Tetrachloroethene
Concen: 21.267 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	103.0	154.6
129	83.9	70.6	105.8
131	83.6	68.6	102.8





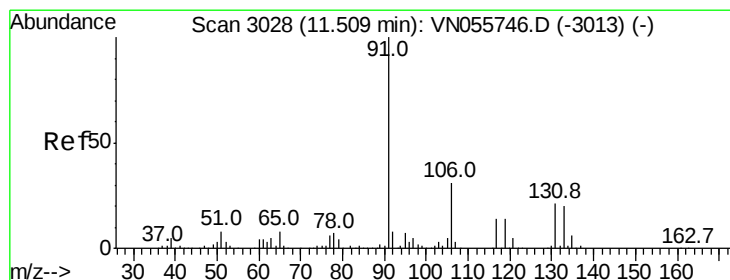
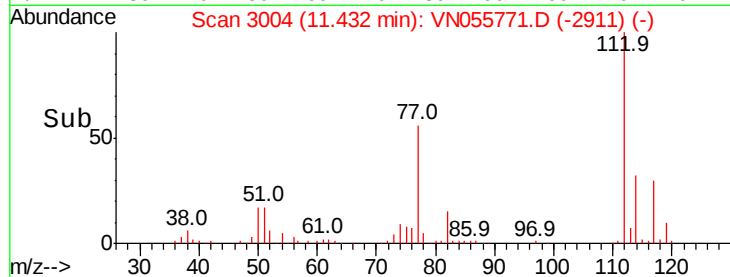
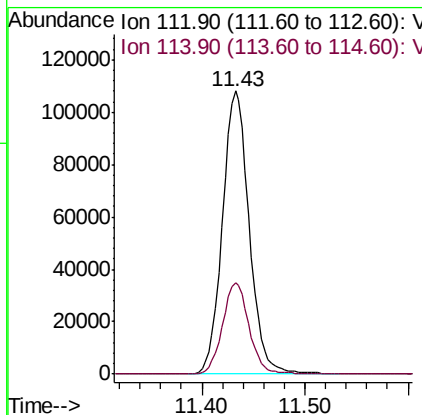
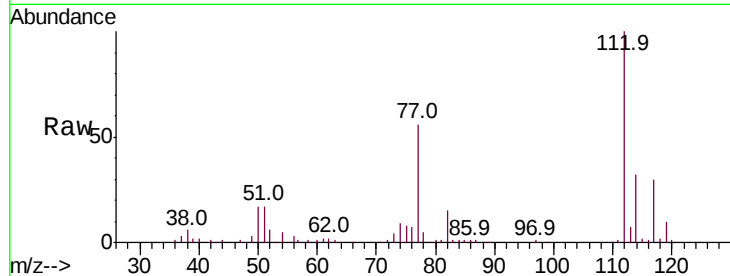
#65
Chlorobenzene
Concen: 20.119 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion:112 Resp: 195306
Ion Ratio Lower Upper
112 100
114 32.5 26.2 39.4

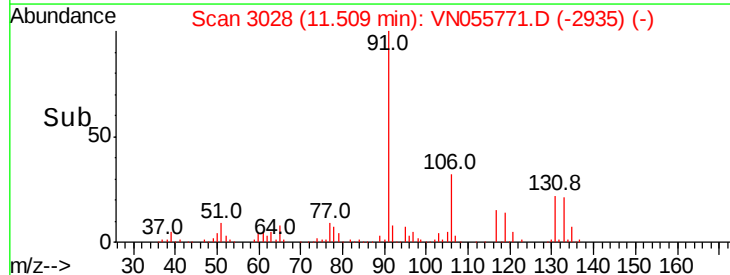
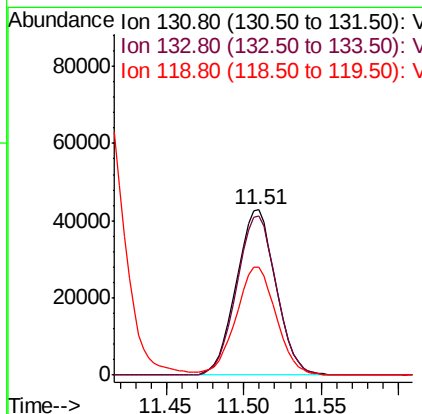
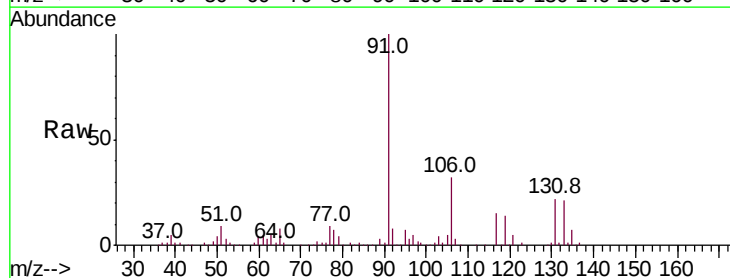
Manual Integrations
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.669 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion:131 Resp: 76150
Ion Ratio Lower Upper
131 100
133 96.9 48.0 144.0
119 66.6 33.1 99.5





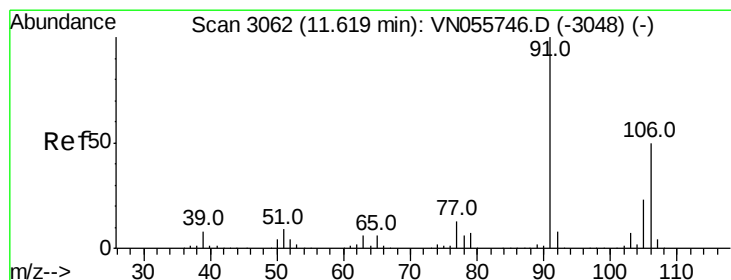
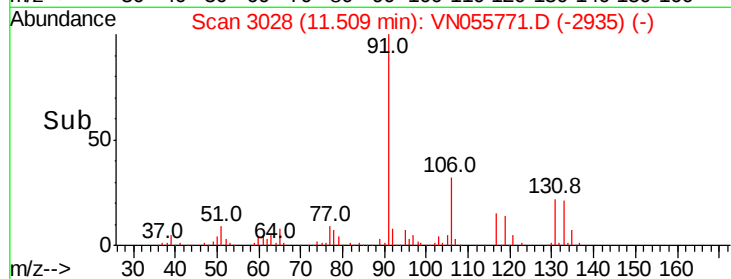
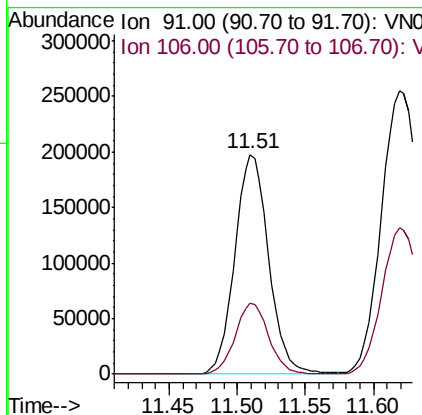
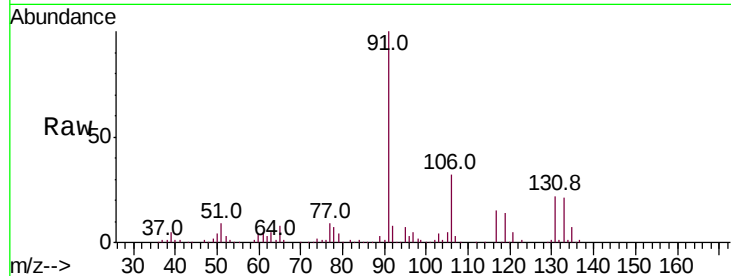
#67
Ethyl Benzene
Concen: 19.560 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion: 91 Resp: 340510
Ion Ratio Lower Upper
91 100
106 32.3 25.1 37.7

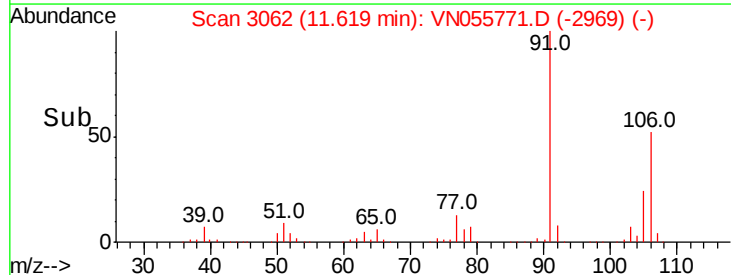
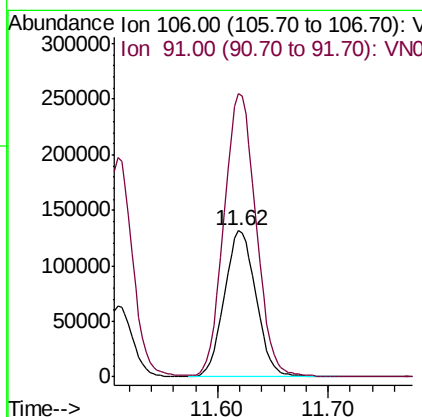
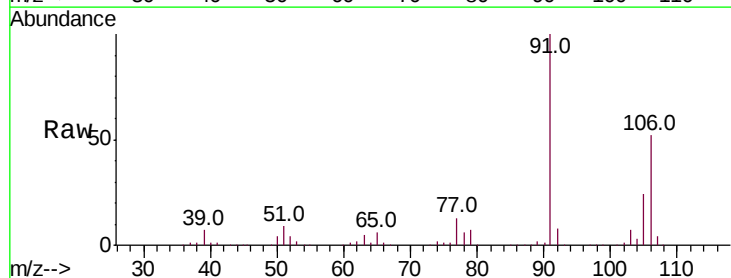
Manual Integrations
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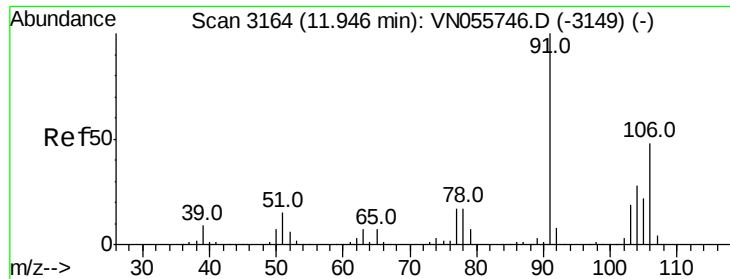
MMDadoda
5/24/2019 9:24:05 AM



#68
m/p-Xylenes
Concen: 39.900 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion: 106 Resp: 262584
Ion Ratio Lower Upper
106 100
91 196.4 159.3 238.9





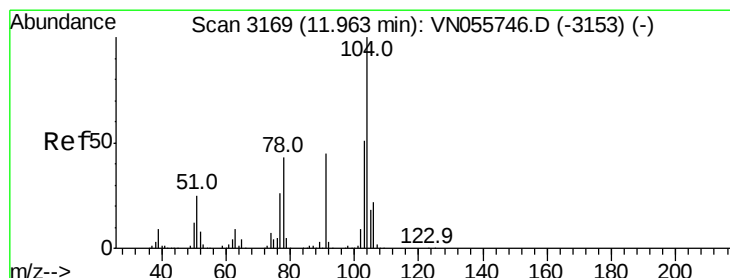
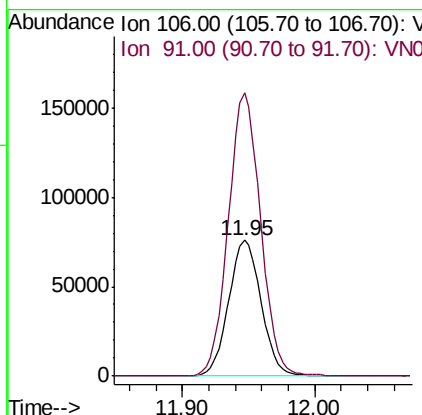
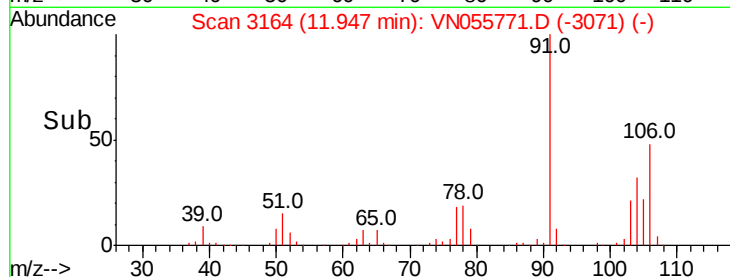
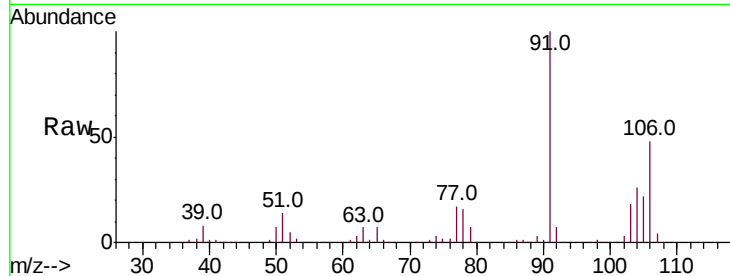
#69
o-Xylene
Concen: 19.777 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion:106 Resp: 129130
Ion Ratio Lower Upper
106 100
91 207.8 104.7 314.1

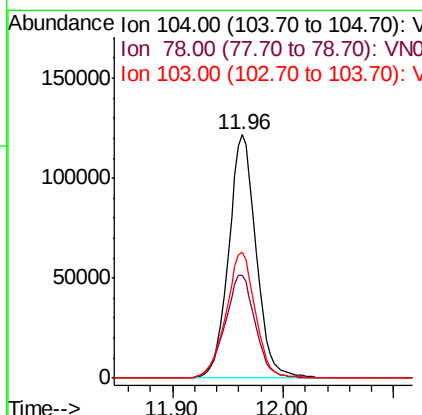
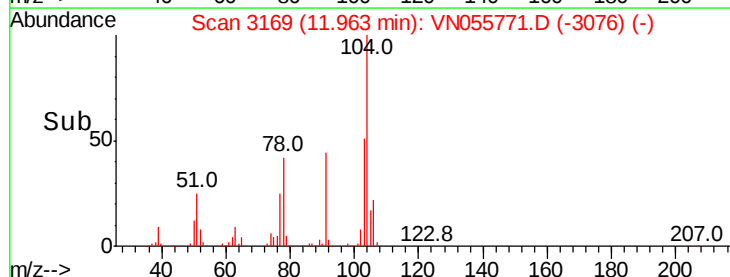
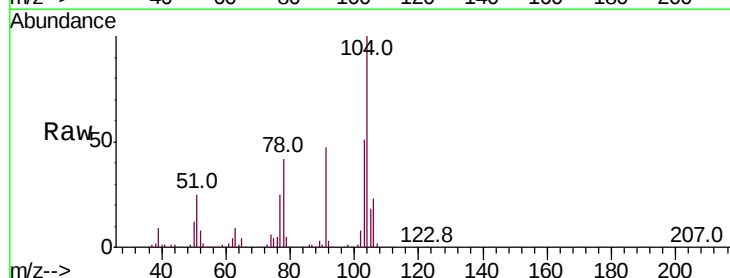
Manual Integrations
APPROVED

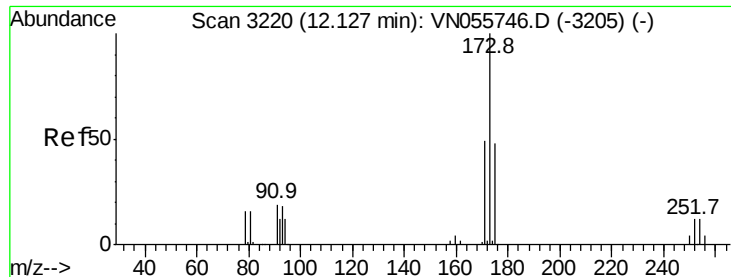
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#70
Styrene
Concen: 19.803 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion:104 Resp: 209392
Ion Ratio Lower Upper
104 100
78 46.8 37.8 56.6
103 55.4 44.2 66.2





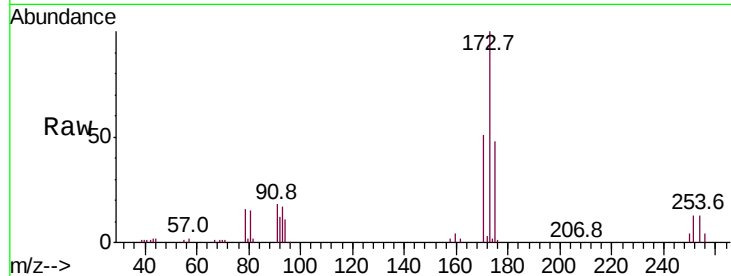
#71
Bromoform
Concen: 20.074 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampled :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.8
254	0.0	0.0	0.0

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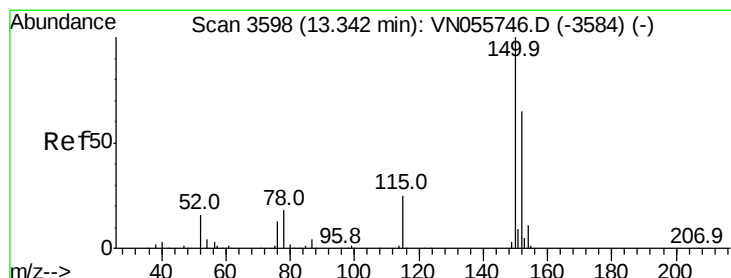
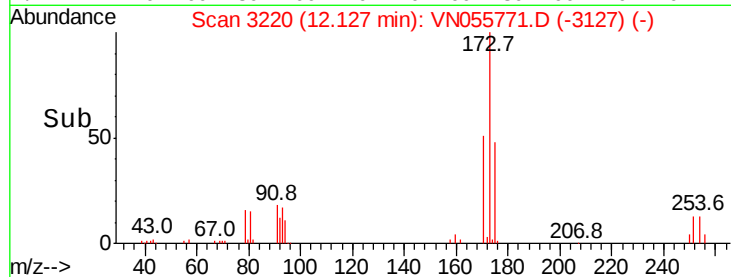
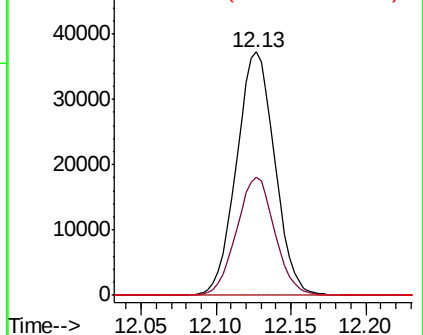


Abundance

Ion 172.70 (172.40 to 173.40): V

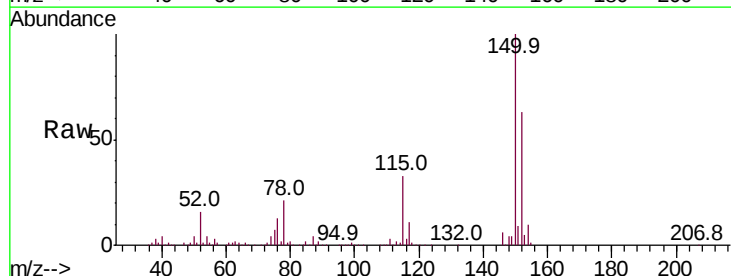
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.1	27.0	81.0
150	163.4	0.0	343.2

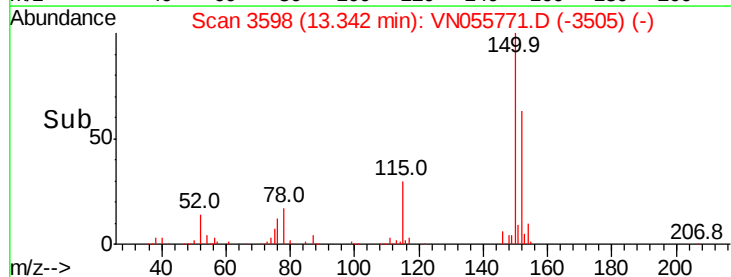
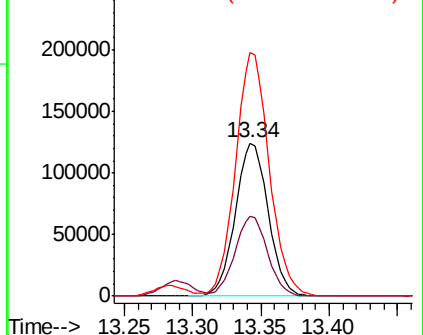


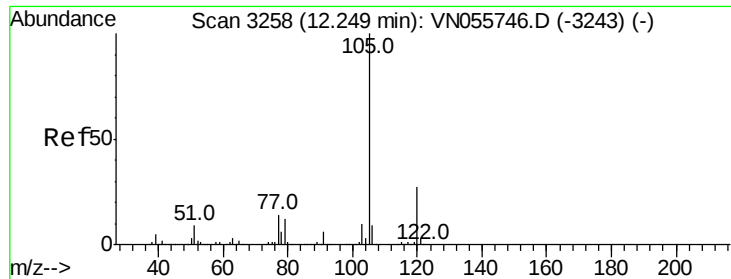
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





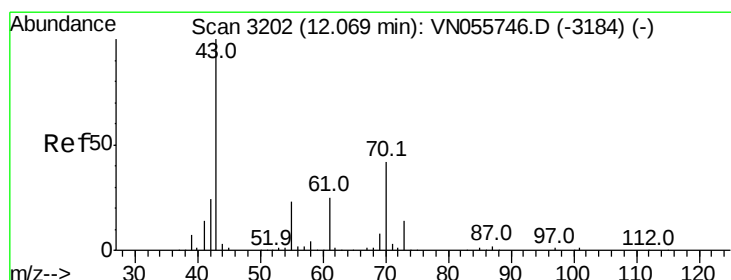
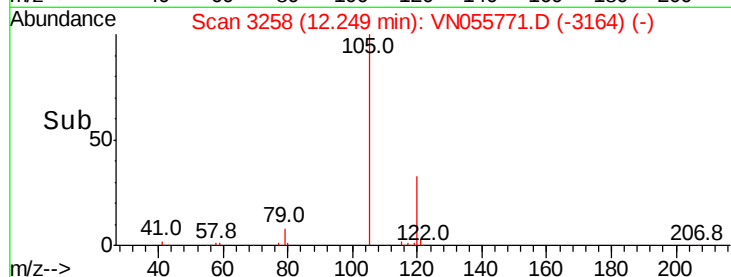
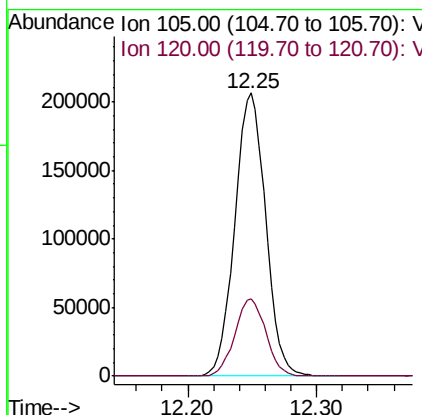
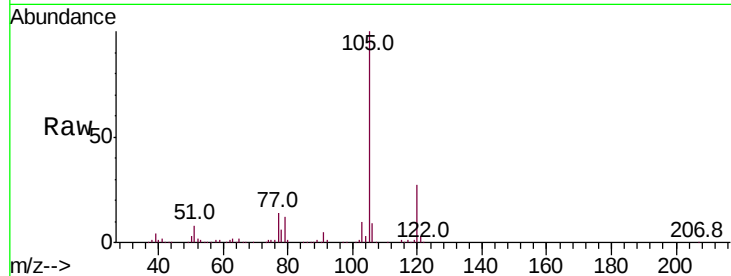
#73
Isopropylbenzene
Concen: 21.692 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion:105 Resp: 342274
Ion Ratio Lower Upper
105 100
120 27.5 13.6 40.7

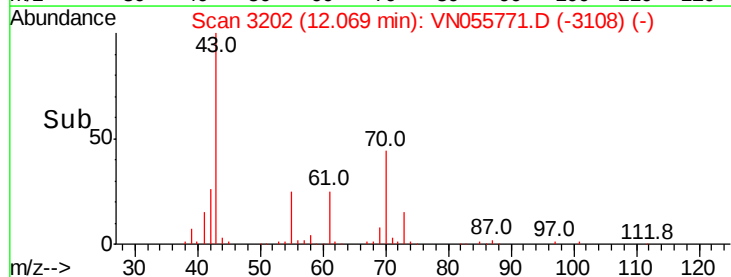
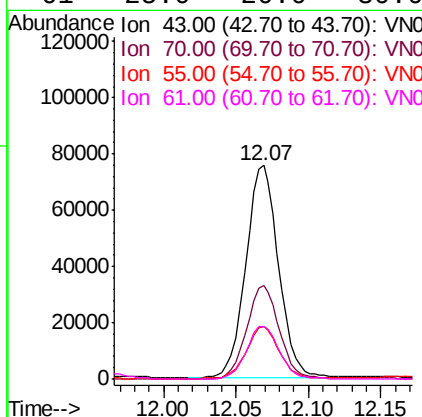
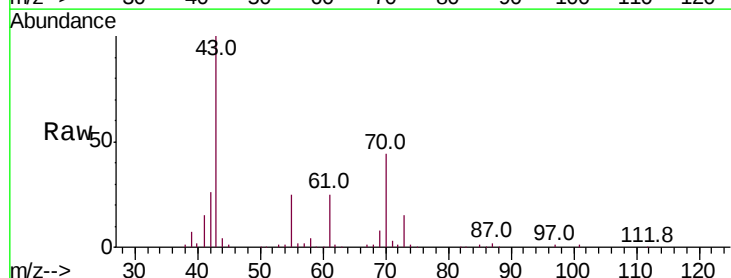
Manual Integrations
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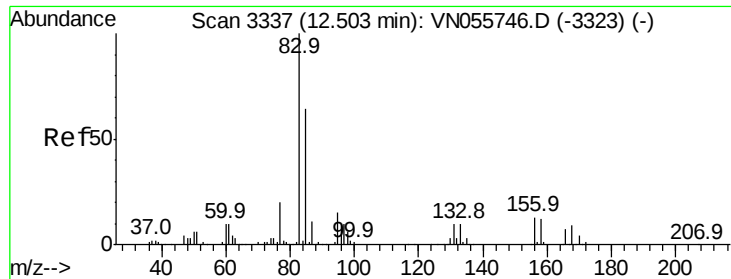
MMDadoda
5/24/2019 9:24:05 AM



#74
N-ethyl acetate
Concen: 19.848 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion: 43 Resp: 119179
Ion Ratio Lower Upper
43 100
70 44.0 34.0 51.0
55 25.6 18.6 28.0
61 25.0 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.196 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

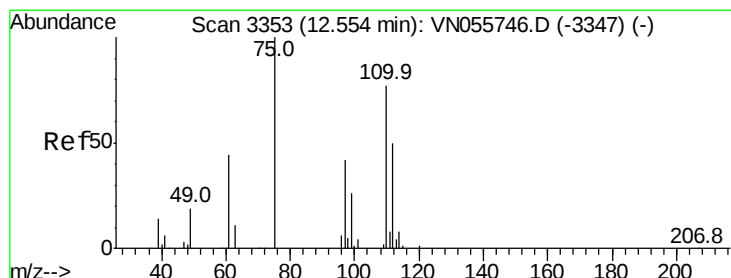
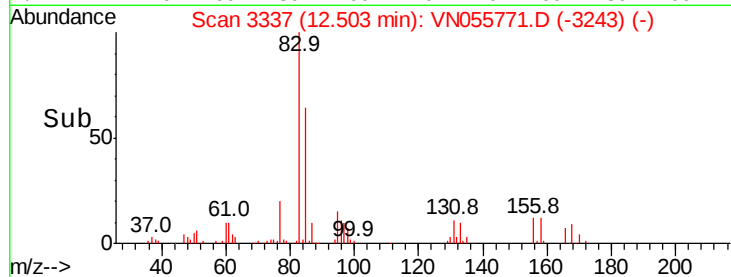
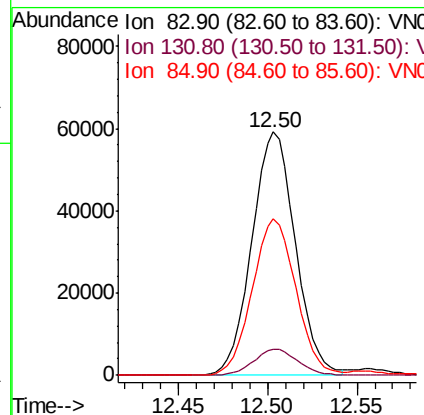
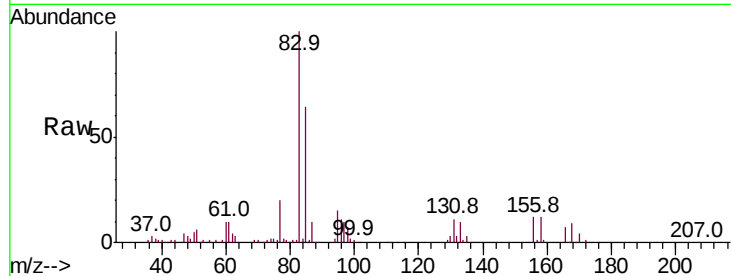
ClientSampleId :

VN0523MBS01

Tot Ion:	83	Resp:	100942
Ion Ratio	Lower	Upper	
83	100		
131	11.0	5.4	16.2
85	64.5	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 23.224 ug/l m

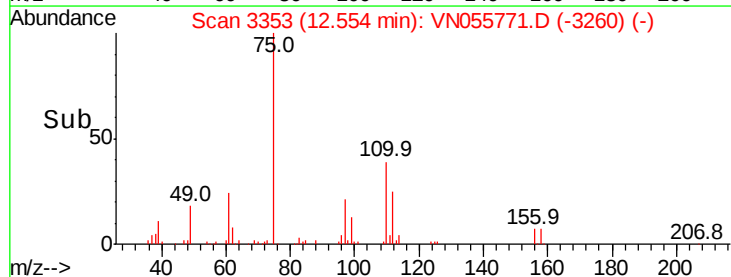
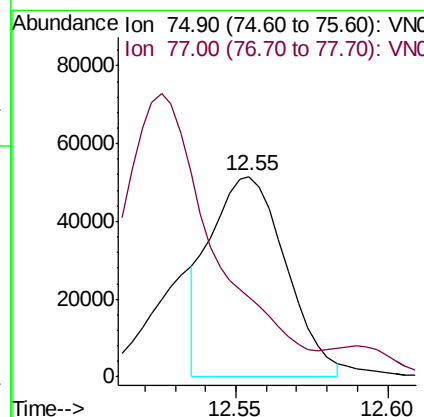
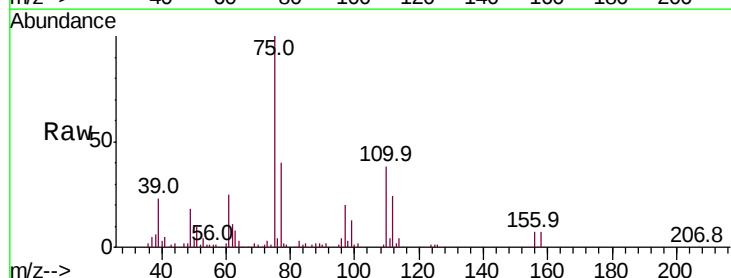
RT: 12.55 min Scan# 3353

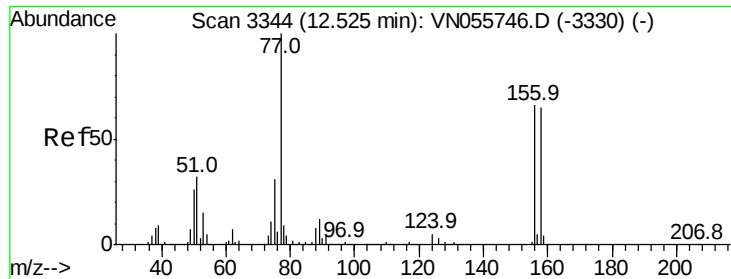
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	75	Resp:	88953
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.482 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

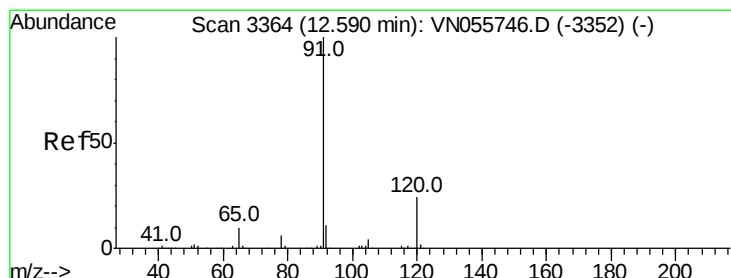
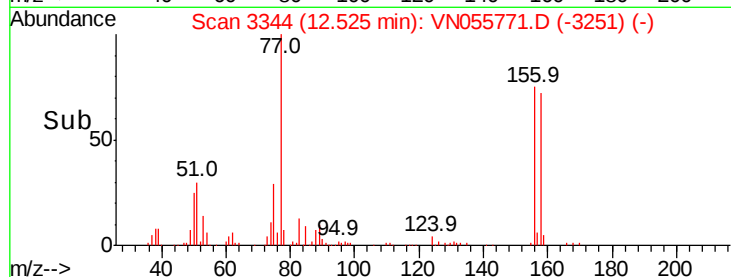
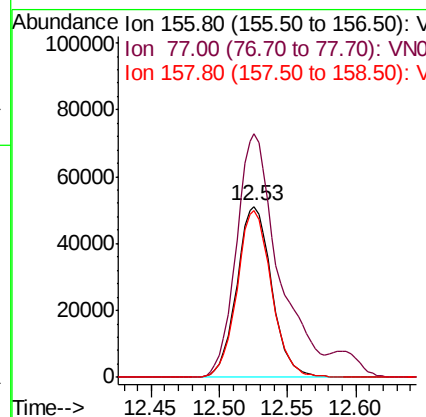
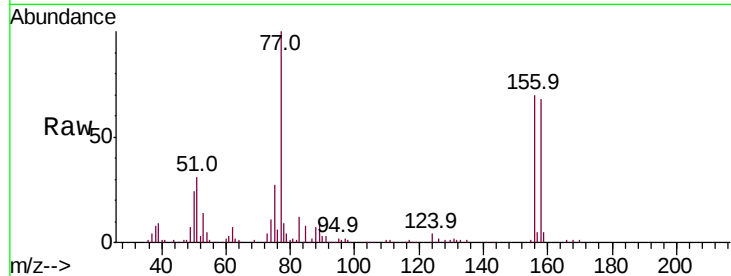
ClientSampleId :

VN0523MBS01

Tot Ion:	156	Resp:	90639
Ion	Ratio	Lower	Upper
156	100		
77	172.4	90.8	272.5
158	96.4	49.3	147.8

Manual Integrations
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#78

n-propylbenzene

Concen: 19.656 ug/l

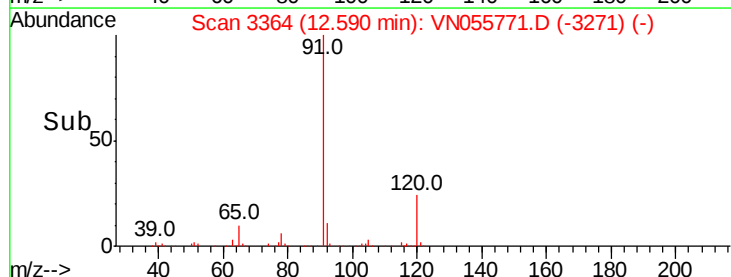
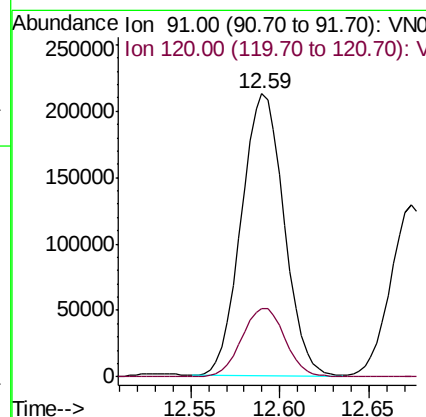
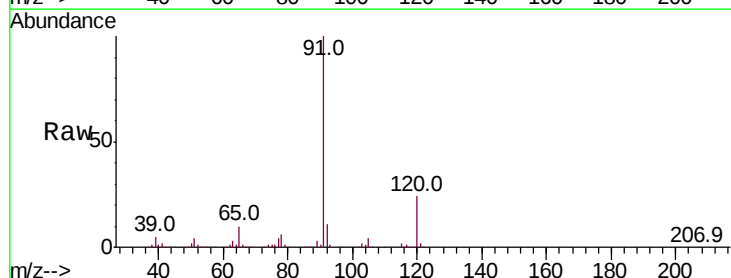
RT: 12.59 min Scan# 3364

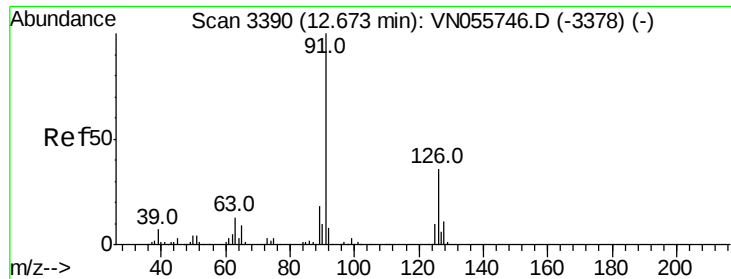
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	91	Resp:	354284
Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.0	36.0





#79

2-Chlorotoluene

Concen: 20.837 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

ClientSampleId :

VN0523MBS01

Tot Ion: 91 Resp: 216733

Ion Ratio Lower Upper

91 100

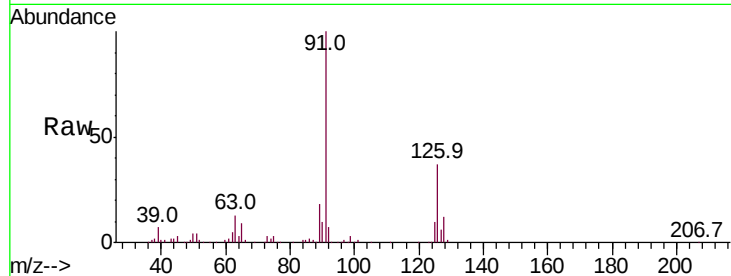
126 37.0 18.1 54.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN055771.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN055771.D (-3297) (-)

200000

150000

100000

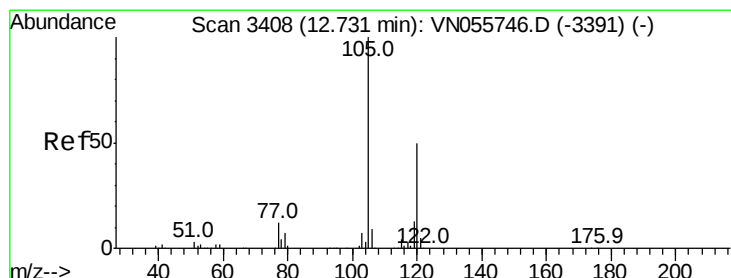
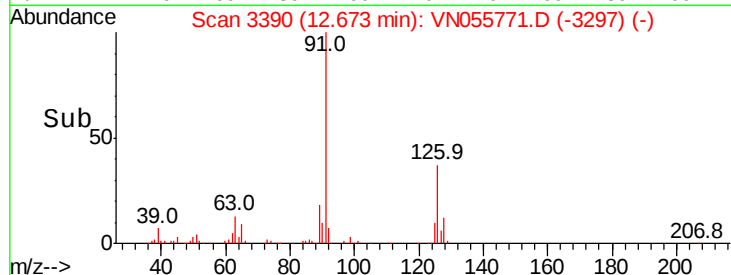
50000

0

12.60 12.65 12.70

12.67

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.289 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055771.D

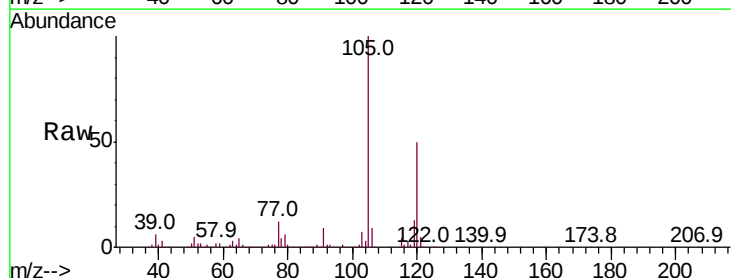
Acq: 23 May 2019 22:37

Tgt Ion:105 Resp: 282605

Ion Ratio Lower Upper

105 100

120 49.9 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055771.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN055771.D (-3315) (-)

200000

150000

100000

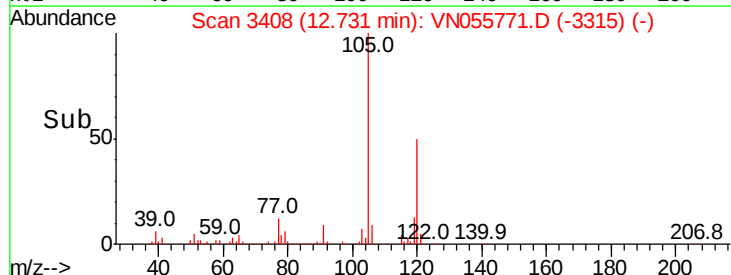
50000

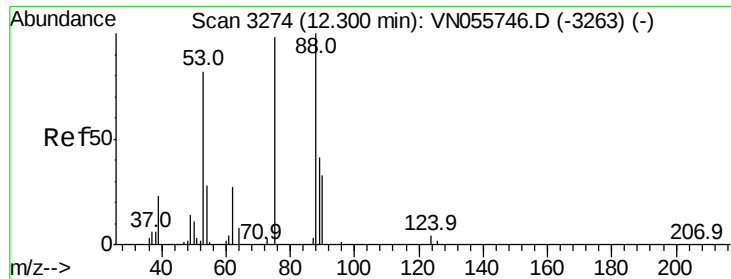
0

12.70 12.75 12.80

12.73

Time-->





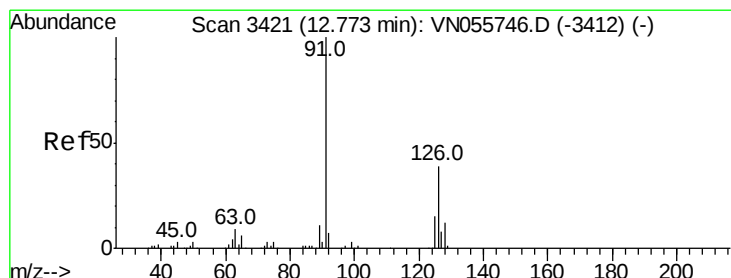
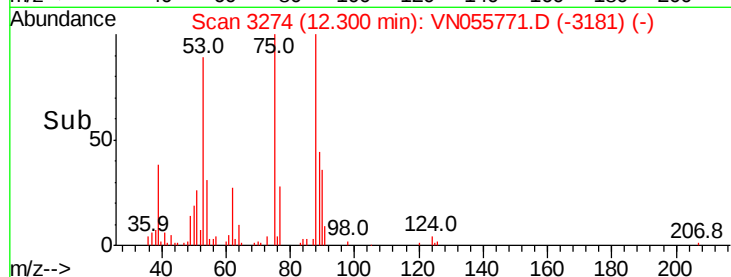
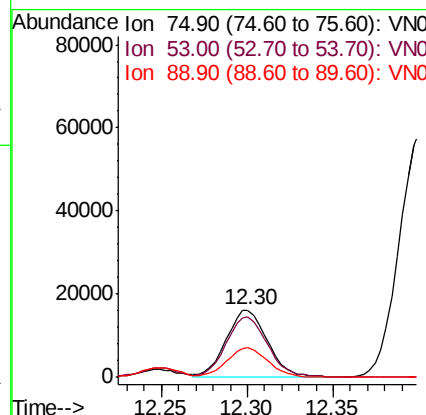
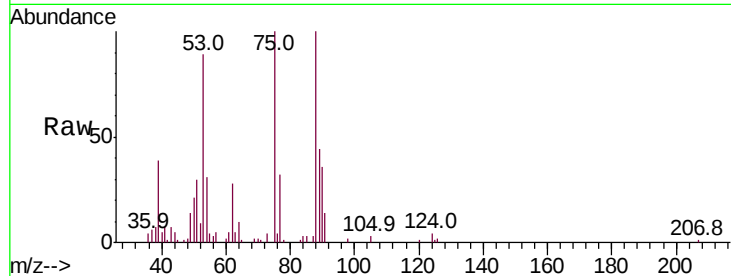
#81
trans-1,4-Dichloro-2-butene
Concen: 17.673 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.3	68.1	102.1
89	44.3	36.9	55.3

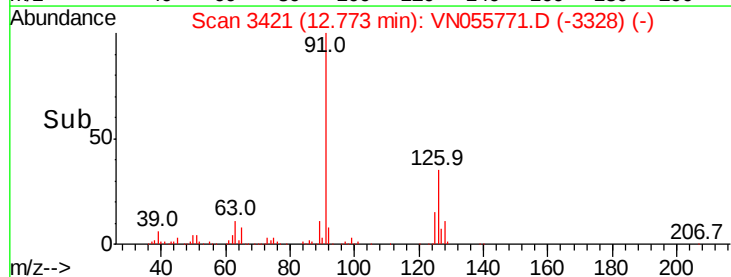
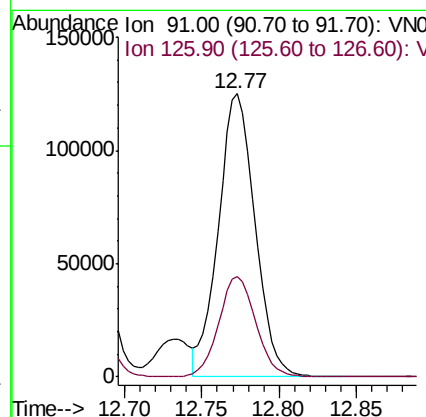
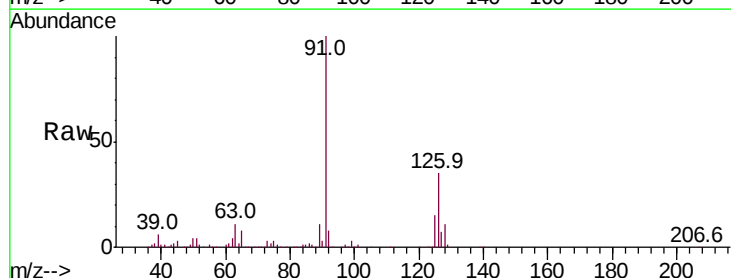
Manual Integrations
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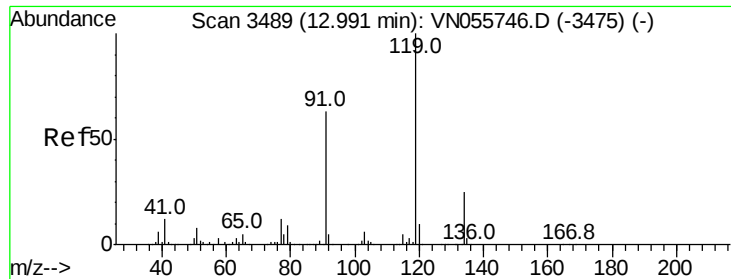
MMDadoda
5/24/2019 9:24:05 AM



#82
4-Chlorotoluene
Concen: 19.394 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.8	53.3





#83

tert-Butylbenzene

Concen: 21.733 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

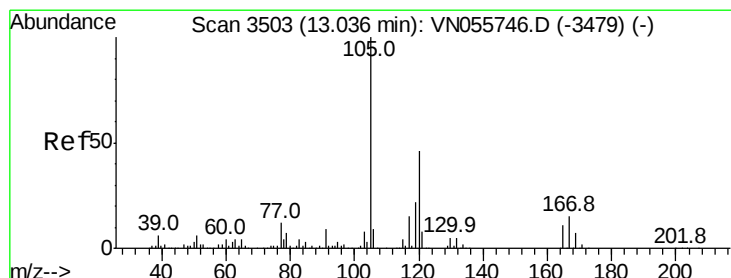
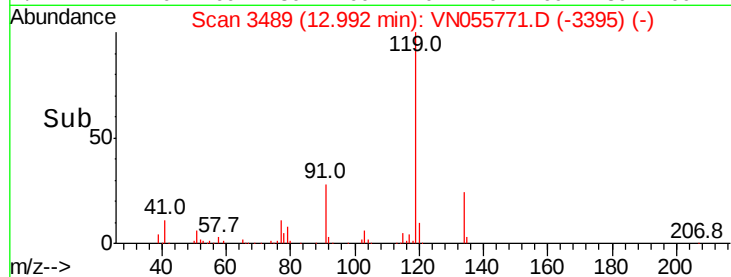
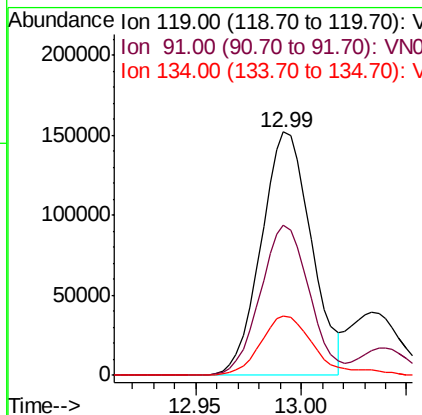
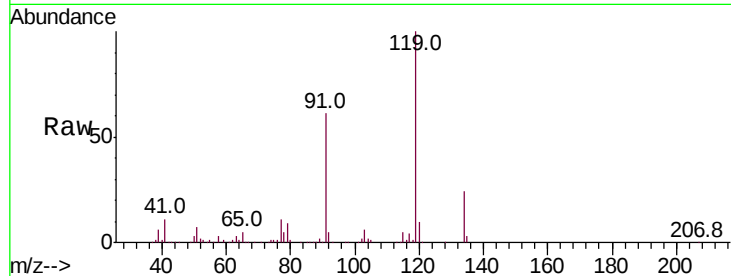
ClientSampleId :

VN0523MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
119	100		251635		
91	60.5	30.9	92.8		
134	26.4	13.3	39.8		

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 21.404 ug/l

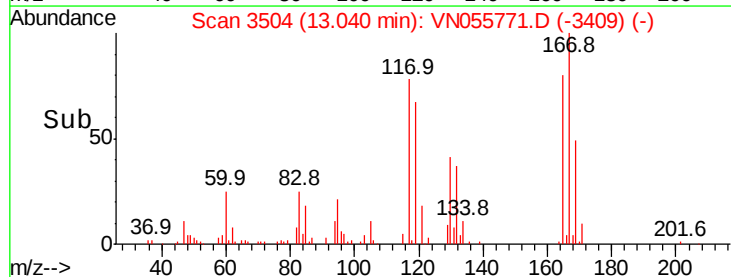
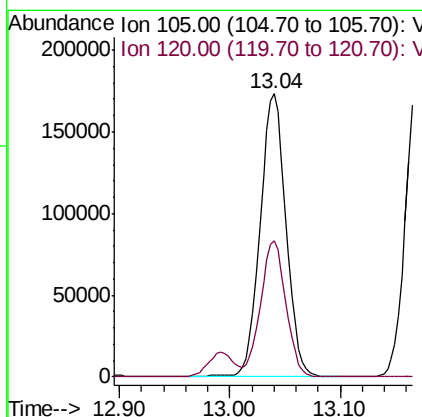
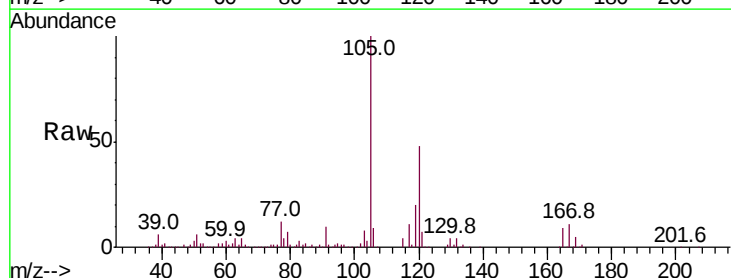
RT: 13.04 min Scan# 3504

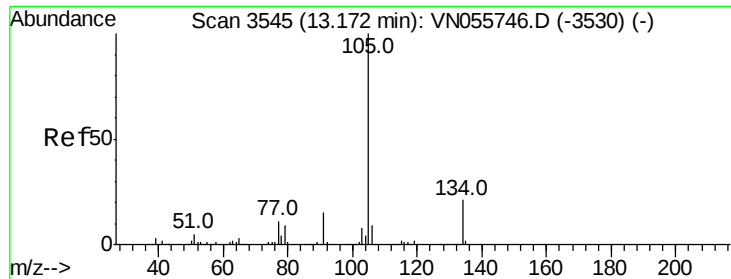
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		281935		
120	47.1	23.0	69.0		





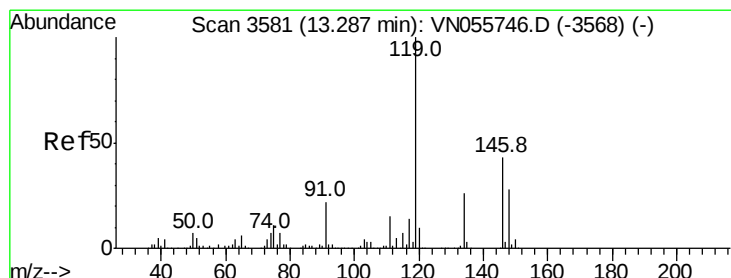
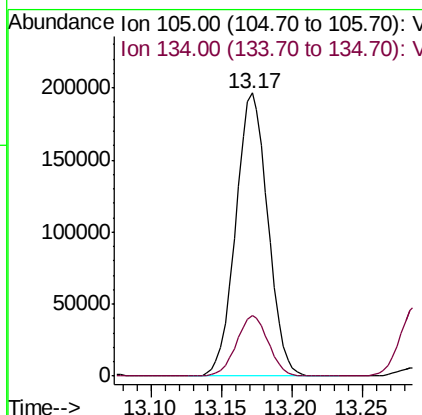
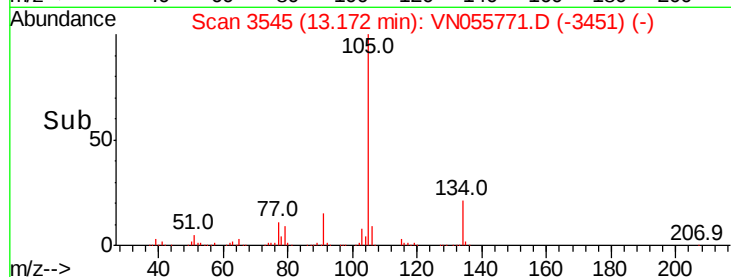
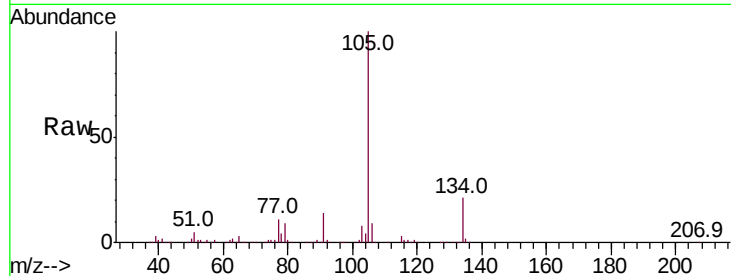
#85
 sec-Butylbenzene
 Concen: 21.088 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.4	31.2

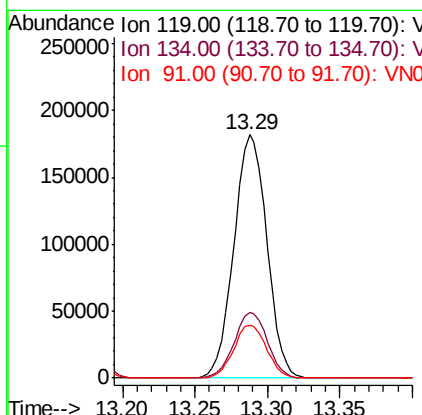
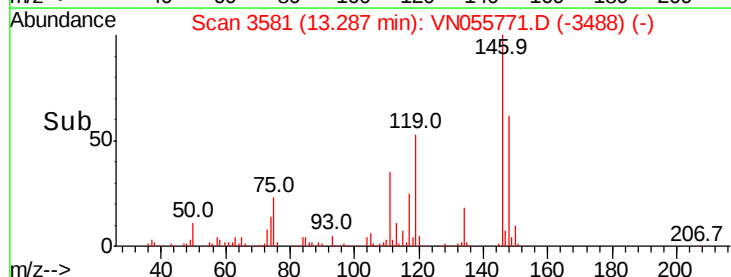
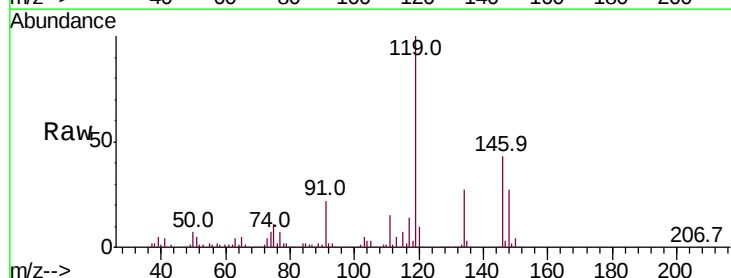
Manual Integrations
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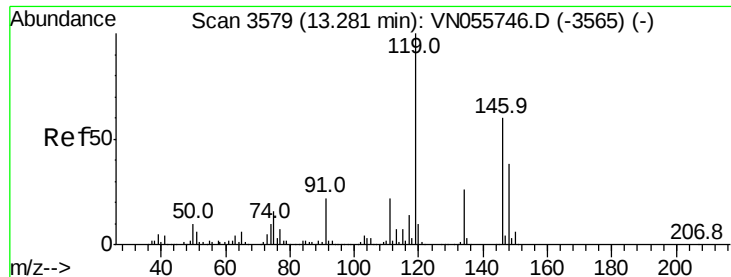
MMDadoda
 5/24/2019 9:24:05 AM



#86
 p-Isopropyltoluene
 Concen: 19.944 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.4	40.1
91	21.6	10.9	32.9





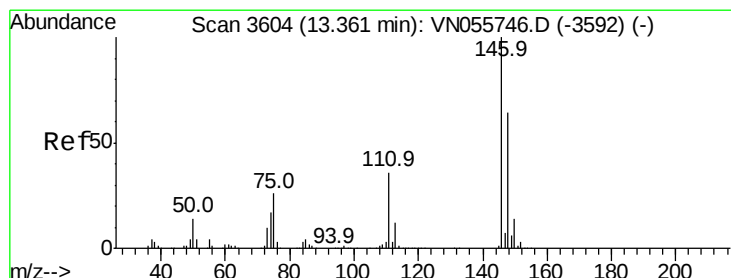
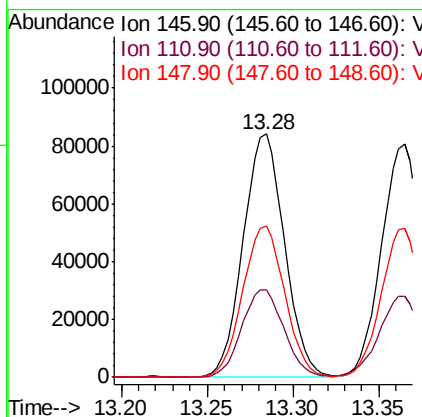
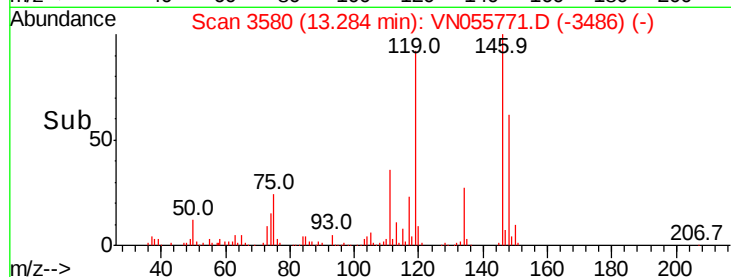
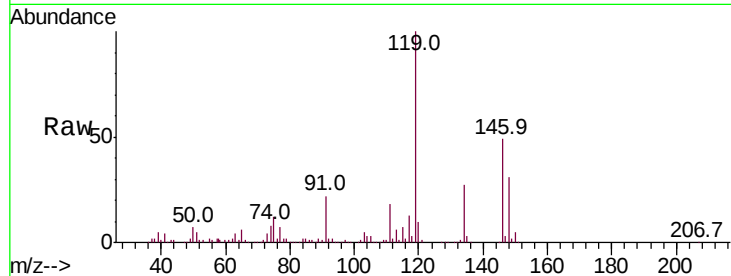
#87
 1,3-Dichlorobenzene
 Concen: 20.138 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0523MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.5	55.5
148	63.1	32.0	96.2

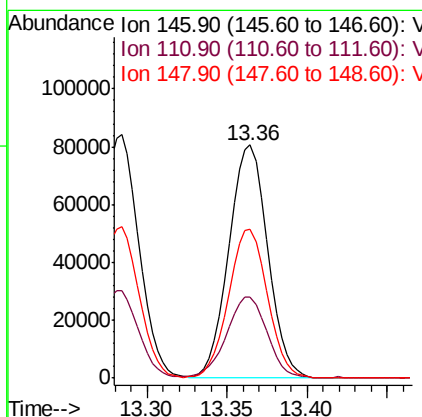
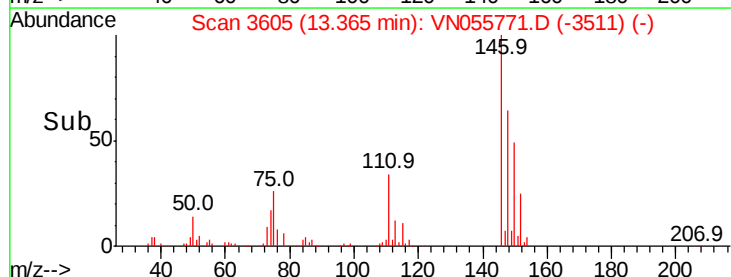
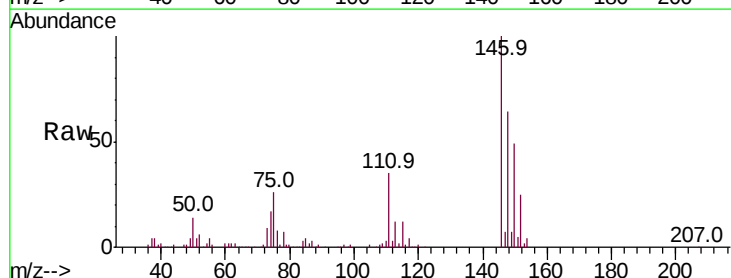
Manual Integrations
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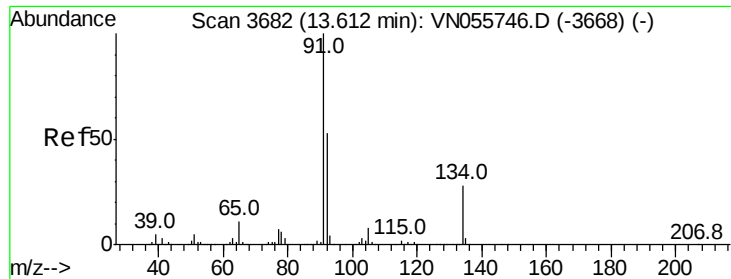
MMDadoda
 5/24/2019 9:24:05 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.063 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.1	54.4
148	64.0	32.1	96.5





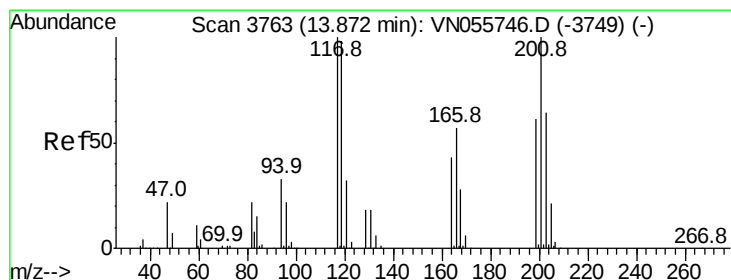
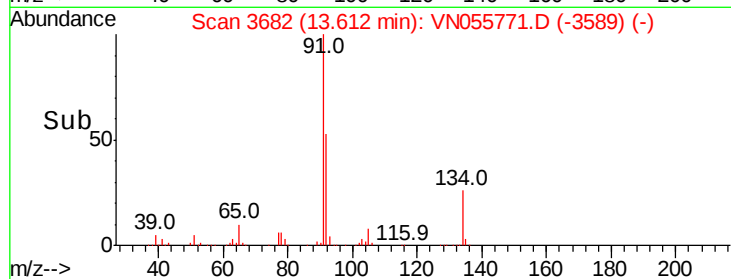
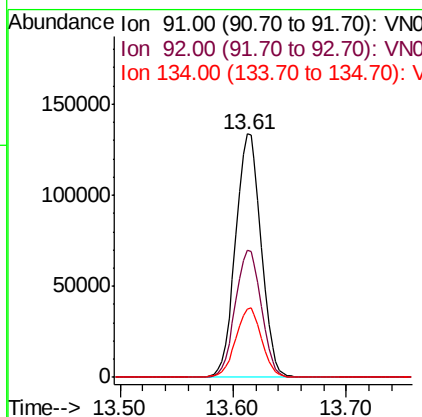
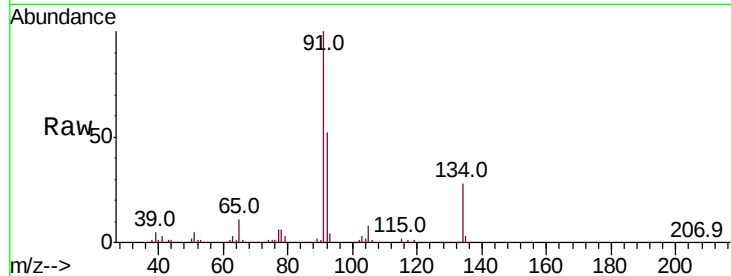
#89
n-Butylbenzene
Concen: 19.121 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Instrument :
MSVOA_N
ClientSampleId :
VN0523MBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	210998		
92	53.0		26.4	79.0
134	28.9		13.9	41.7

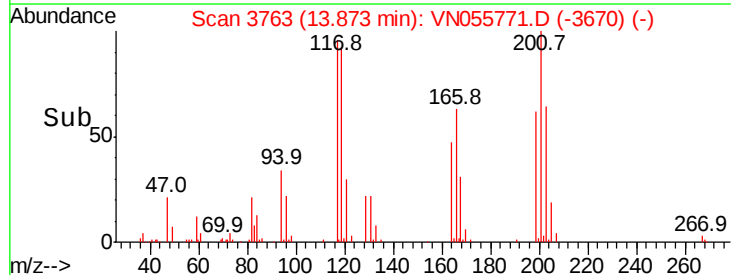
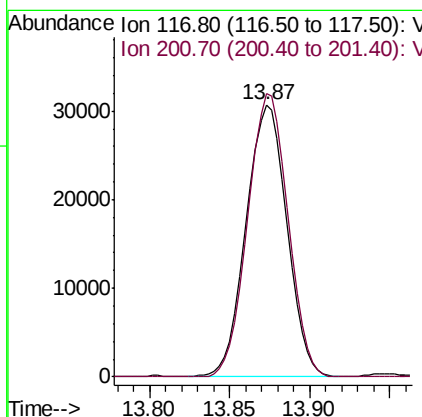
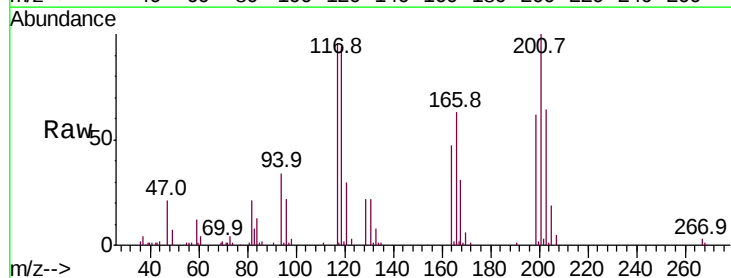
Manual Integrations
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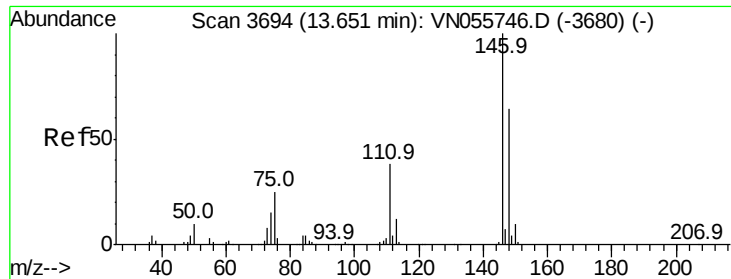
MMDadoda
5/24/2019 9:24:05 AM



#90
Hexachloroethane
Concen: 19.525 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055771.D
Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	53523		
201	102.6		50.0	150.0





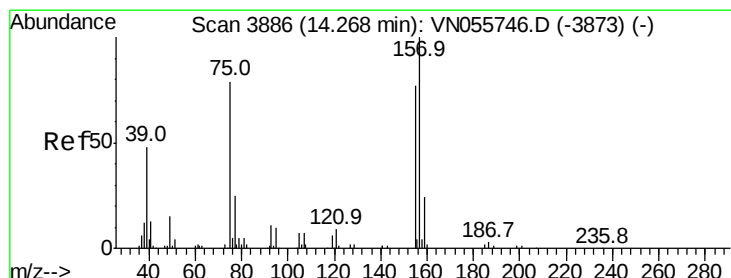
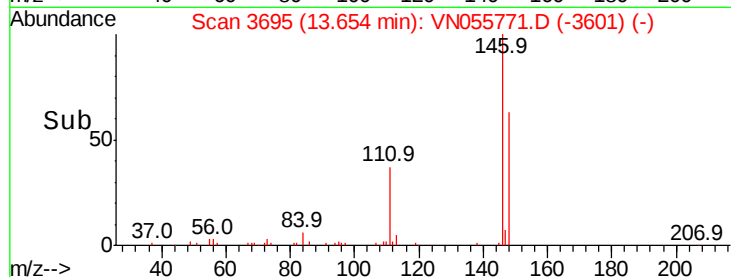
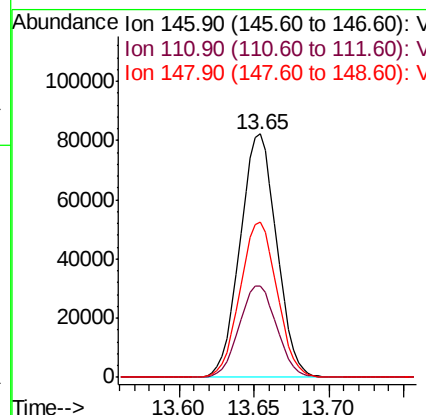
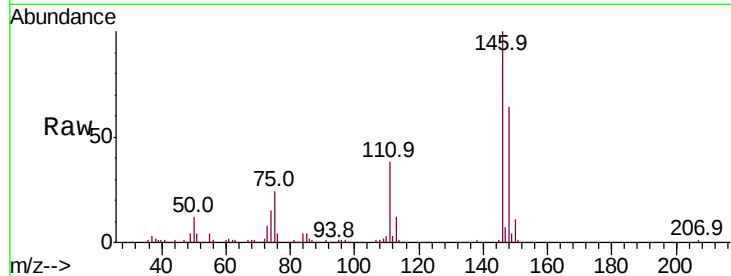
#91
 1,2-Dichlorobenzene
 Concen: 20.035 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Instrument :
 MSVOA_N
 ClientSampled :
 VN0523MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.1	57.5
148	64.3	31.9	95.9

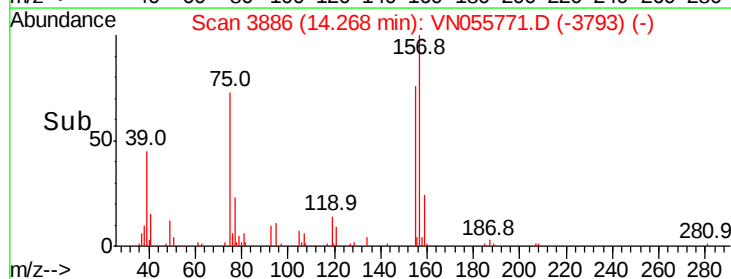
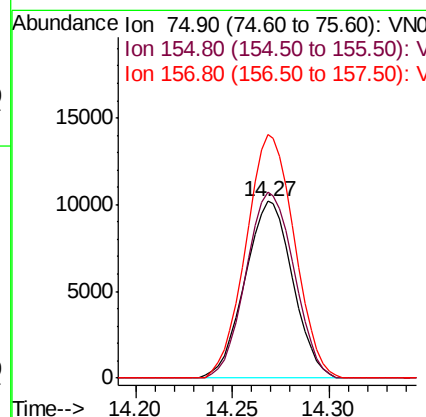
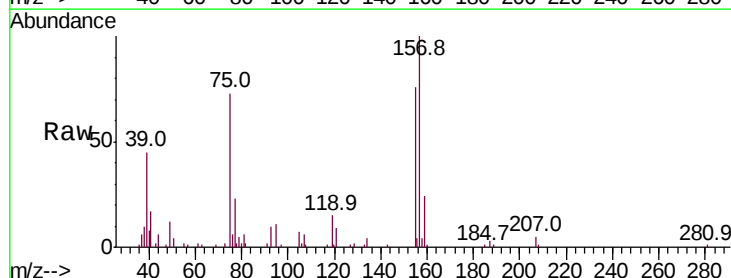
Manual Integrations
 APPROVED

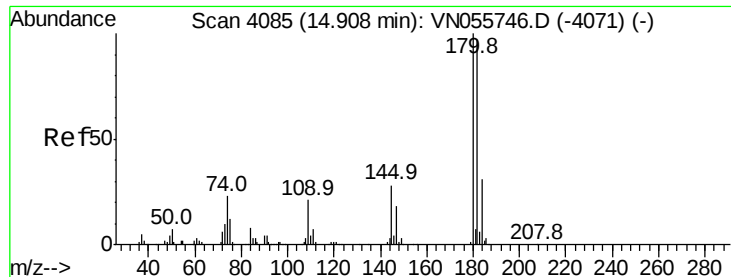
MMDadoda
 5/24/2019 9:24:05 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.078 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN055771.D
 Acq: 23 May 2019 22:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	106.0	50.0	150.1
157	139.6	64.8	194.3





#93

1,2,4-Trichlorobenzene

Concen: 19.405 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

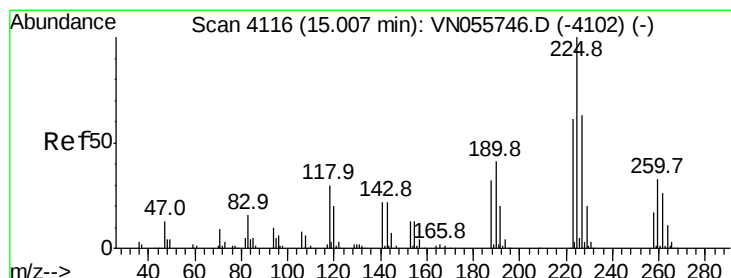
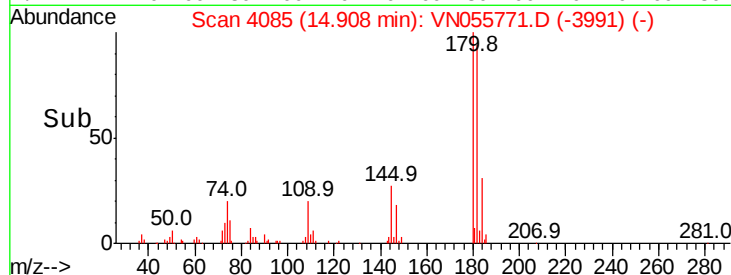
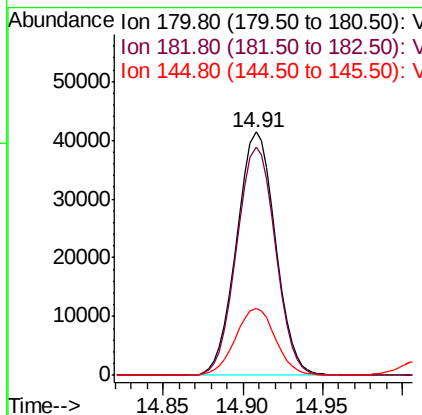
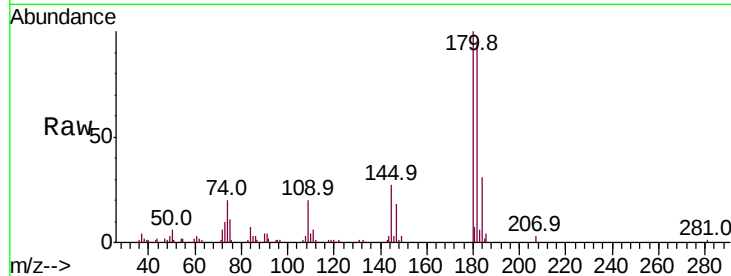
ClientSampleId :

VN0523MBS01

Tot Ion:	180	Resp:	68401
Ion Ratio	Lower	Upper	
180	100		
182	93.8	48.3	144.9
145	28.3	14.0	41.9

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5/24/2019 9:24:05 AM



#94

Hexachlorobutadiene

Concen: 22.086 ug/l

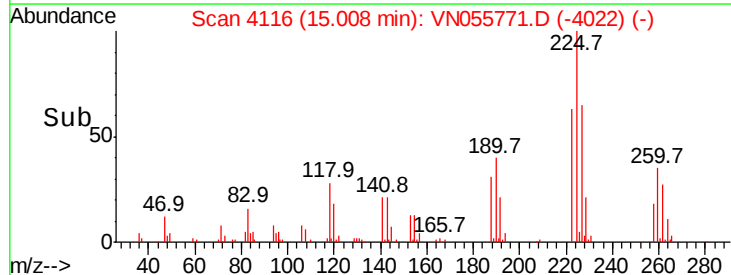
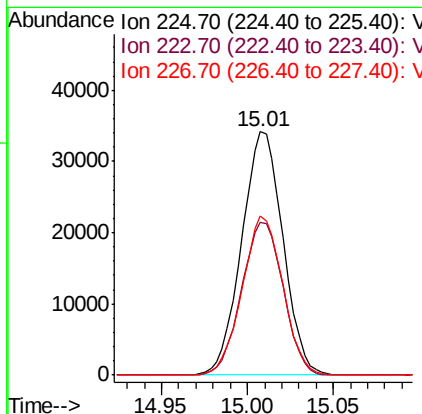
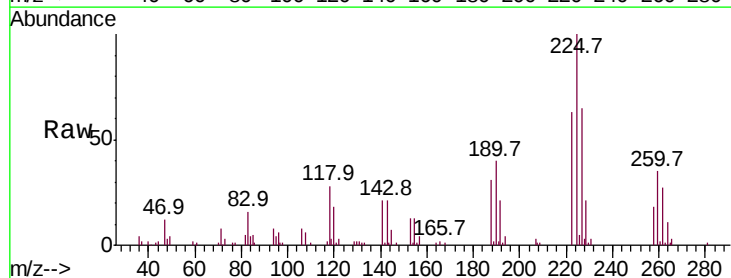
RT: 15.01 min Scan# 4116

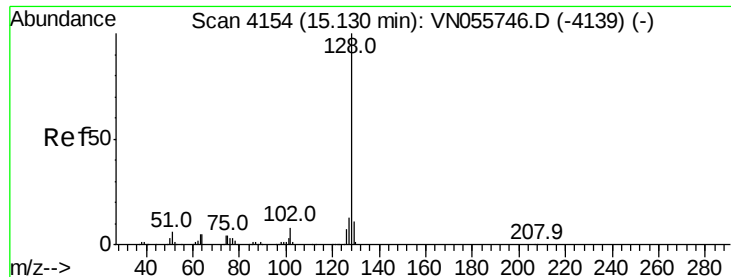
Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	225	Resp:	56848
Ion Ratio	Lower	Upper	
225	100		
223	63.2	30.9	92.7
227	64.3	31.6	94.7





#95

Naphthalene

Concen: 18.969 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Instrument :

MSVOA_N

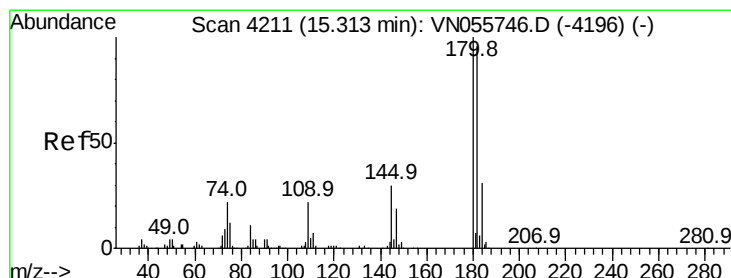
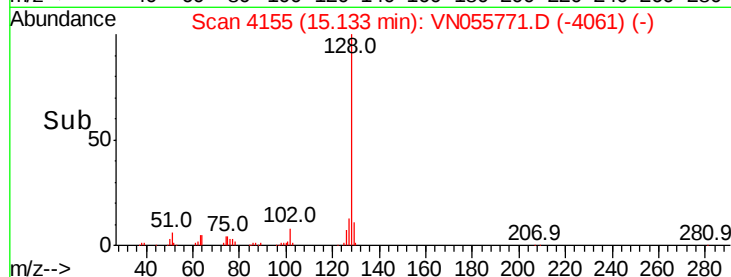
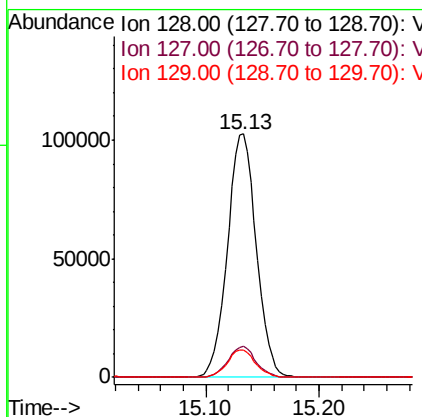
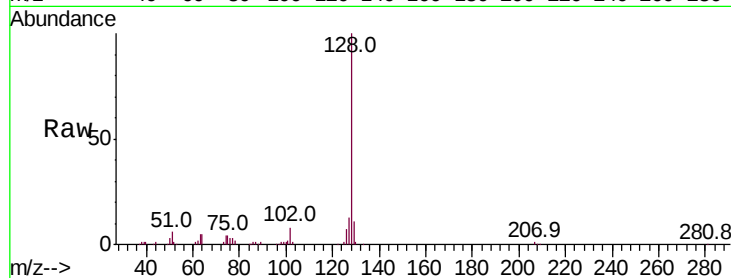
ClientSampleId :

VN0523MBS01

Tot Ion:	128	Resp:	181977
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.3	15.5
129	11.0	8.7	13.1

Manual Integrations
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5/24/2019 9:24:05 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.217 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055771.D

Acq: 23 May 2019 22:37

Tgt Ion:	180	Resp:	74713
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.9	143.7
145	28.1	14.9	44.7

