

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\
 Data File : VN056729.D
 Acq On : 15 Jul 2019 22:38
 Operator : JC/SP
 Sample : VN0715WBS02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Manual Integrations
 APPROVED

MMDadoda
 7/17/2019 1:31:49 AM

Quant Time: Jul 16 05:32:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 01:25:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	326673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	520371	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	467509	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	206991	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	184633	51.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.20%	
35) Dibromofluoromethane	7.59	113	163182	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
50) Toluene-d8	10.09	98	621484	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
62) 4-Bromofluorobenzene	12.40	95	208885	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	54918	17.904	ug/l	99
3) Chloromethane	2.06	50	75082	18.206	ug/l	99
4) Vinyl Chloride	2.18	62	74206	18.685	ug/l	100
5) Bromomethane	2.57	94	47709	20.429	ug/l	98
6) Chloroethane	2.70	64	43147	18.644	ug/l	96
7) Trichlorofluoromethane	3.01	101	96848	19.005	ug/l	100
8) Diethyl Ether	3.41	74	38390	19.323	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	58332	19.053	ug/l	99
10) Methyl Iodide	3.95	142	63708	15.557	ug/l	98
11) Tert butyl alcohol	4.79	59	57132	94.989	ug/l #	85
12) 1,1-Dichloroethene	3.74	96	58814	19.152	ug/l	98
13) Acrolein	3.61	56	18771	98.145	ug/l	97
14) Allyl chloride	4.32	41	97488	18.357	ug/l	99
15) Acrylonitrile	4.99	53	167809	96.613	ug/l	99
16) Acetone	3.82	43	131420	78.923	ug/l	97
17) Carbon Disulfide	4.05	76	149877	18.469	ug/l	99
18) Methyl Acetate	4.33	43	73123	18.948	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	185970	19.006	ug/l	100
20) Methylene Chloride	4.55	84	69421	19.077	ug/l	93
21) trans-1,2-Dichloroethene	5.04	96	63615	19.597	ug/l	97
22) Diisopropyl ether	5.95	45	207362	19.781	ug/l	93
23) Vinyl Acetate	5.90	43	817382	96.224	ug/l	99
24) 1,1-Dichloroethane	5.85	63	116745	19.209	ug/l	99
25) 2-Butanone	6.84	43	217634	89.396	ug/l	98
26) 2,2-Dichloropropane	6.82	77	69130	15.775	ug/l	98
27) cis-1,2-Dichloroethene	6.83	96	74193	19.863	ug/l	97
28) Bromochloromethane	7.20	49	54754	19.161	ug/l	98
29) Tetrahydrofuran	7.22	42	152473	96.025	ug/l	99
30) Chloroform	7.37	83	116218	19.109	ug/l	99
31) Cyclohexane	7.66	56	112311	19.443	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	93007	19.337	ug/l	98
36) 1,1-Dichloropropene	7.79	75	87226	18.114	ug/l	99
37) Ethyl Acetate	6.93	43	90482	19.065	ug/l	98
38) Carbon Tetrachloride	7.77	117	80875	17.909	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	106108	17.846	ug/l	99
40) Benzene	8.04	78	276114	18.714	ug/l	99
41) Methacrylonitrile	7.18	41	38505	18.470	ug/l #	100
42) 1,2-Dichloroethane	8.13	62	88253	18.926	ug/l	100
43) Isopropyl Acetate	8.17	43	136657	18.316	ug/l	98
44) Trichloroethene	8.84	130	74544	18.605	ug/l	97
45) 1,2-Dichloropropane	9.12	63	73342	18.707	ug/l	99
46) Dibromomethane	9.21	93	46308	19.060	ug/l	99
47) Bromodichloromethane	9.40	83	86168	18.664	ug/l	99
48) Methyl methacrylate	9.20	41	66686	18.481	ug/l	98
49) 1,4-Dioxane	9.20	88	25411	343.218	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	450600	93.246	ug/l	100
52) Toluene	10.16	92	167909	19.163	ug/l	97
53) t-1,3-Dichloropropene	10.38	75	86318	17.921	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	100892	18.050	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	68310	18.587	ug/l	98
56) Ethyl methacrylate	10.43	69	99372	18.792	ug/l	99
57) 1,3-Dichloropropane	10.71	76	113909	18.977	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	239521	94.192	ug/l	99
59) 2-Hexanone	10.75	43	316271	91.212	ug/l	100
60) Dibromochloromethane	10.90	129	67374	18.640	ug/l	99
61) 1,2-Dibromoethane	11.00	107	70544	19.314	ug/l	98
64) Tetrachloroethene	10.63	164	74426	18.453	ug/l	99
65) Chlorobenzene	11.43	112	176502	18.464	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	64795	18.410	ug/l	99
67) Ethyl Benzene	11.51	91	310886	18.505	ug/l	100
68) m/p-Xylenes	11.62	106	234563	37.360	ug/l	100
69) o-Xylene	11.95	106	113093	18.322	ug/l	100
70) Styrene	11.96	104	190877	19.128	ug/l	100
71) Bromoform	12.12	173	49035	18.310	ug/l #	98
73) Isopropylbenzene	12.25	105	301956	18.092	ug/l	100
74) N-amyl acetate	12.07	43	104750	16.852	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	96600	18.774	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	84004m	18.555	ug/l	
77) Bromobenzene	12.53	156	79266	18.158	ug/l	96
78) n-propylbenzene	12.59	91	329229	17.769	ug/l	99
79) 2-Chlorotoluene	12.67	91	200116	18.511	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	253435	17.916	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	22449	15.314	ug/l	92
82) 4-Chlorotoluene	12.77	91	196132	18.037	ug/l	100
83) tert-Butylbenzene	12.99	119	215127	18.603	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	252318	18.259	ug/l	98
85) sec-Butylbenzene	13.17	105	281883	17.934	ug/l	100
86) p-Isopropyltoluene	13.29	119	255568	17.949	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	127164	17.775	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	126974	18.246	ug/l	100
89) n-Butylbenzene	13.61	91	208580	18.186	ug/l	100
90) Hexachloroethane	13.87	117	38297	16.632	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	129938	17.759	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15629	17.463	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	62931	18.110	ug/l	97
94) Hexachlorobutadiene	15.01	225	42425	17.619	ug/l	98
95) Naphthalene	15.13	128	158406	17.516	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	68146	19.174	ug/l	98

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

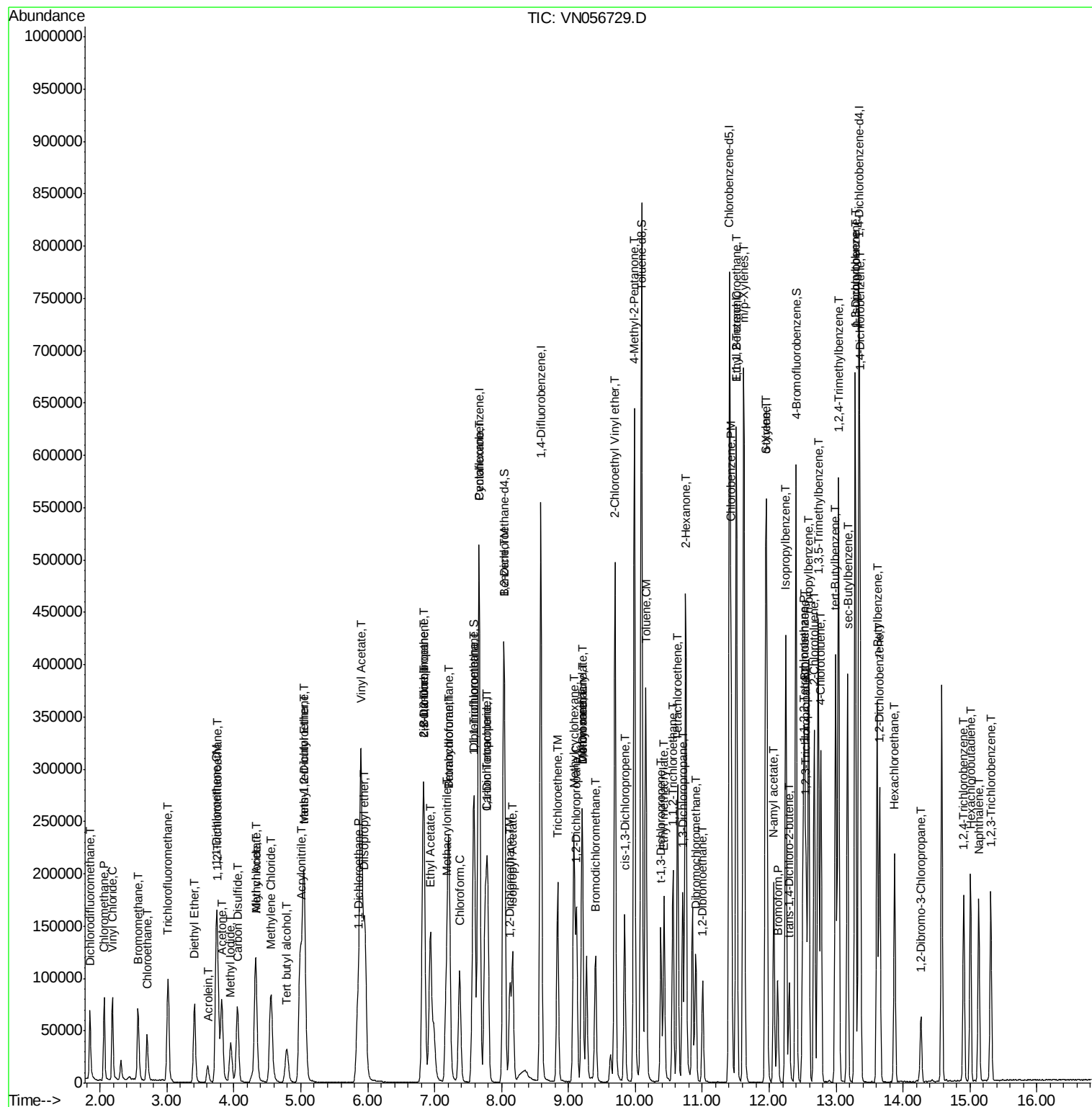
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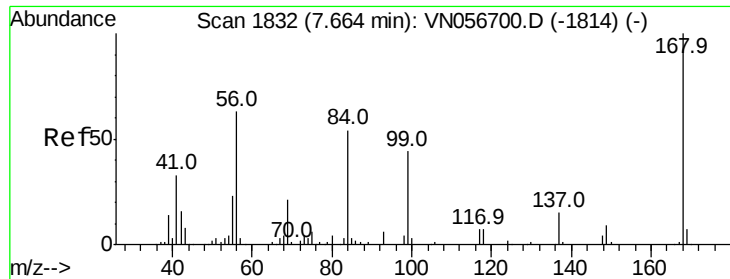
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion:168 Resp: 326673

Ion Ratio Lower Upper

168 100

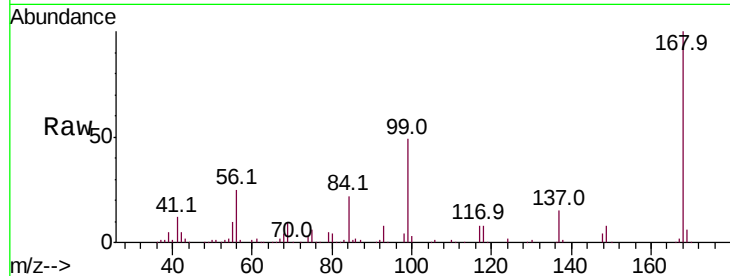
99 48.2 39.4 59.2

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VN056729.D (-1739) (-)

Ion 98.90 (98.60 to 99.60): VN056729.D (-1739) (-)

7.67

150000

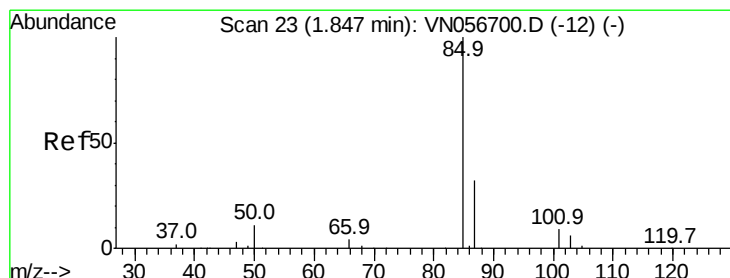
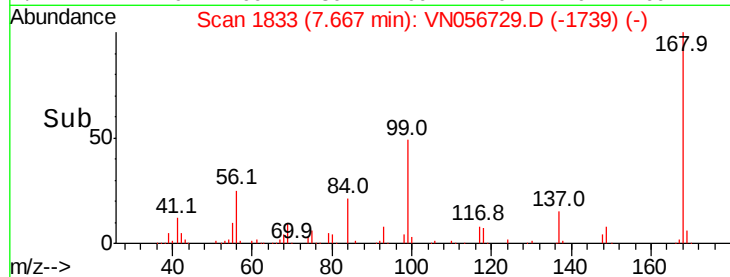
100000

50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 17.904 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN056729.D

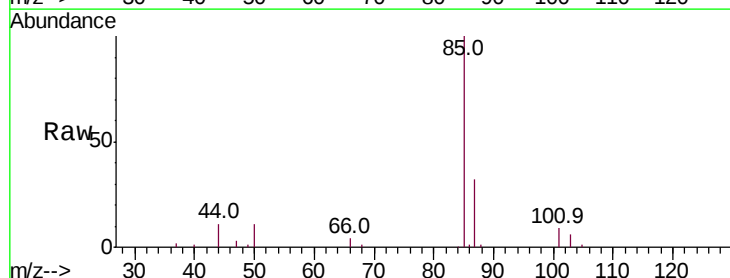
Acq: 15 Jul 2019 22:38

Tgt Ion: 85 Resp: 54918

Ion Ratio Lower Upper

85 100

87 32.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VN056729.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN056729.D (-1) (-)

1.85

40000

30000

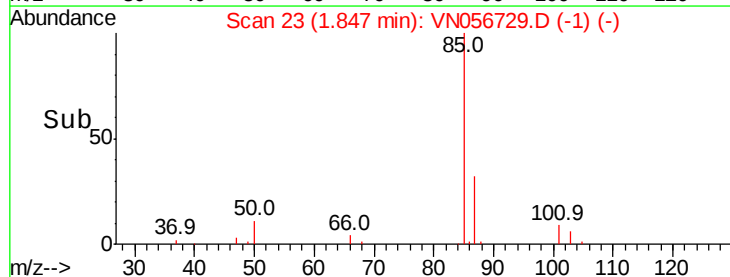
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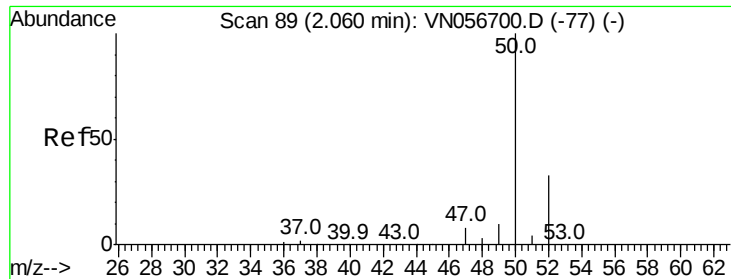
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0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.206 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 50 Resp: 75082

Ion Ratio Lower Upper

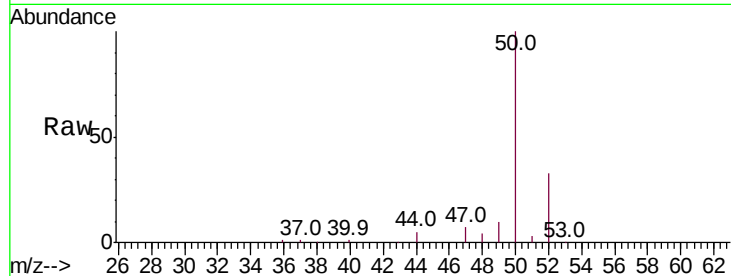
50 100

52 32.8 26.5 39.7

Manual Integrations
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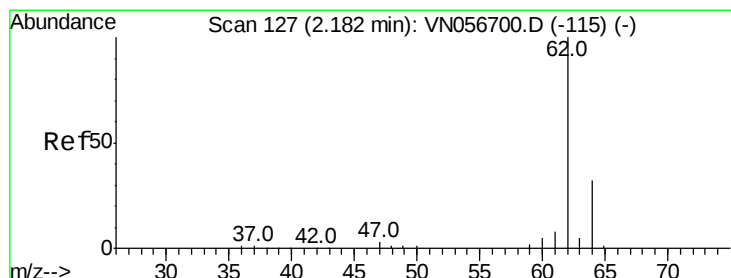
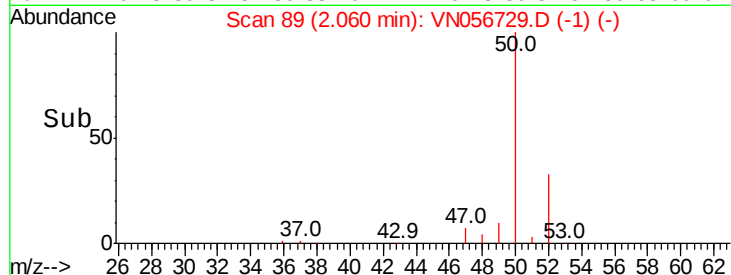
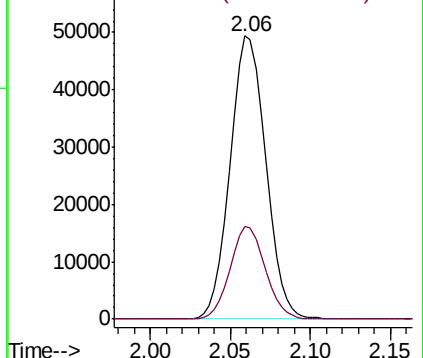
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Abundance Ion 49.90 (49.60 to 50.60): VNC

Ion 51.90 (51.60 to 52.60): VNC



#4

Vinyl Chloride

Concen: 18.685 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN056729.D

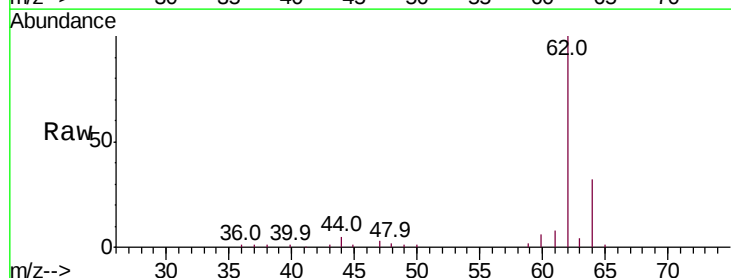
Acq: 15 Jul 2019 22:38

Tgt Ion: 62 Resp: 74206

Ion Ratio Lower Upper

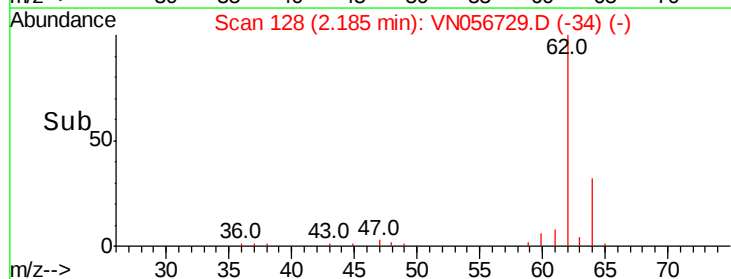
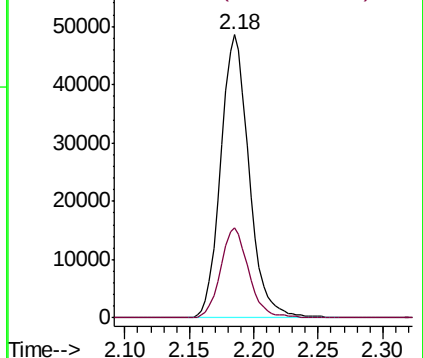
62 100

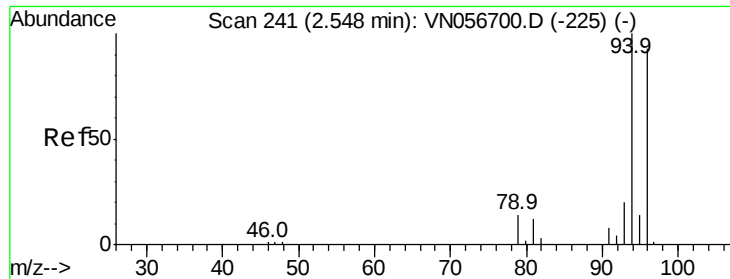
64 31.8 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC





#5

Bromomethane

Concen: 20.429 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.02 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

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ClientSampleId :

VN0715WBS02

Tot Ion: 94 Resp: 47709

Ion Ratio Lower Upper

94 100

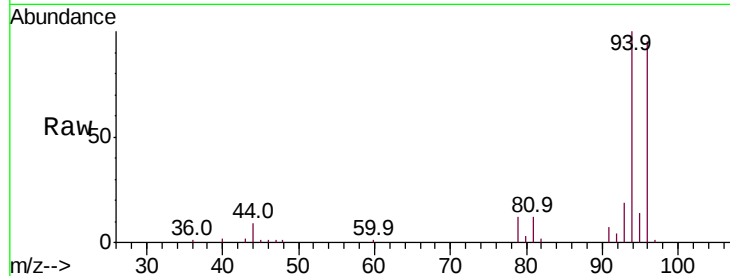
96 94.7 74.0 111.0

Manual Integrations

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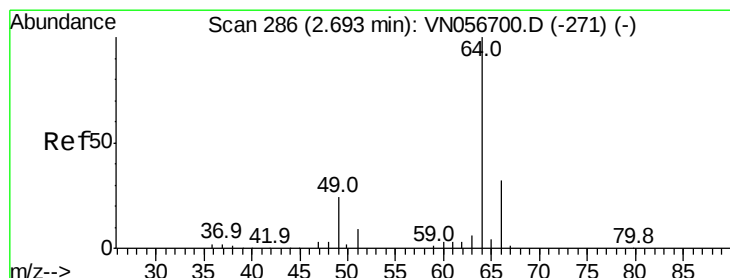
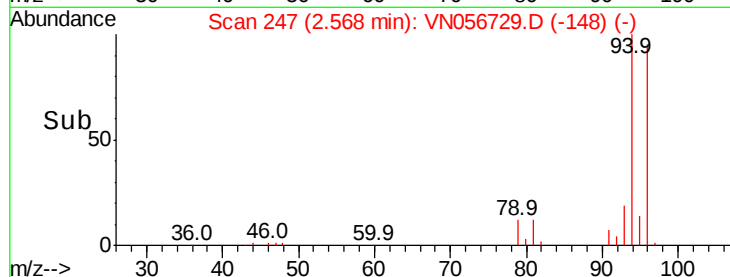
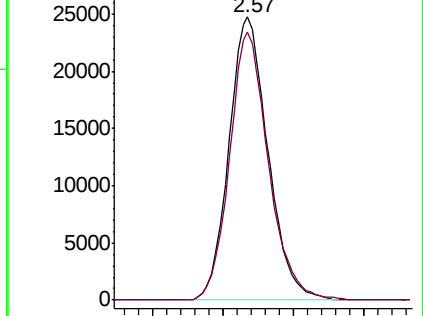
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 18.644 ug/l

RT: 2.70 min Scan# 289

Delta R.T. 0.01 min

Lab File: VN056729.D

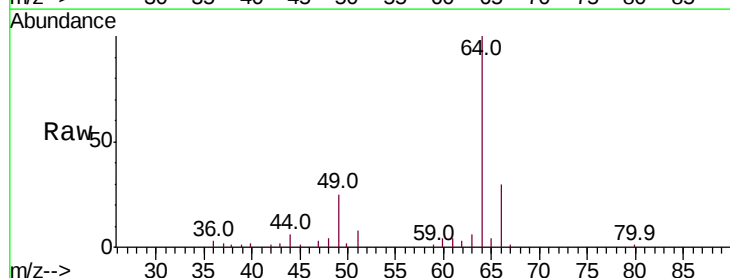
Acq: 15 Jul 2019 22:38

Tgt Ion: 64 Resp: 43147

Ion Ratio Lower Upper

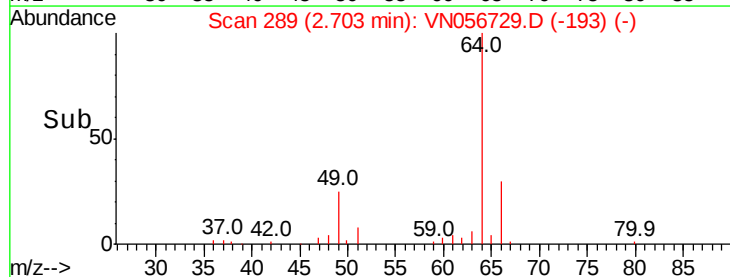
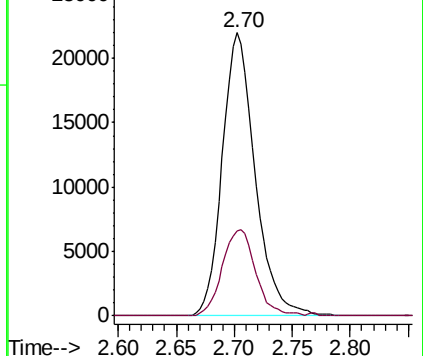
64 100

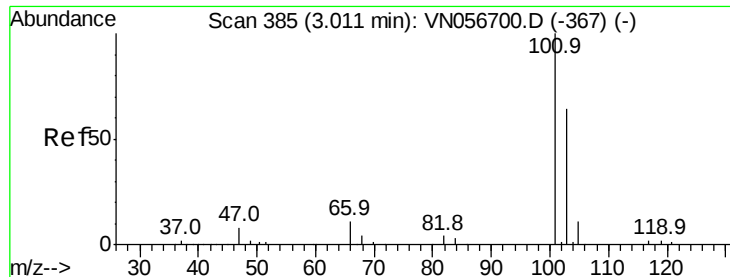
66 30.1 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

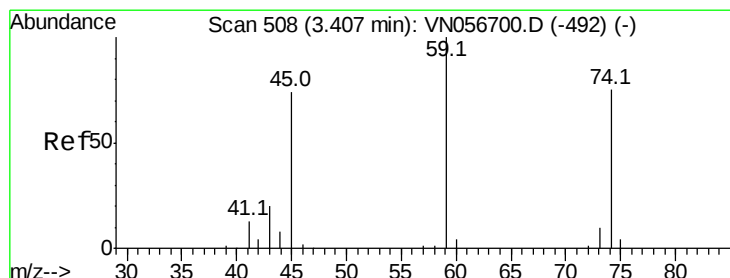
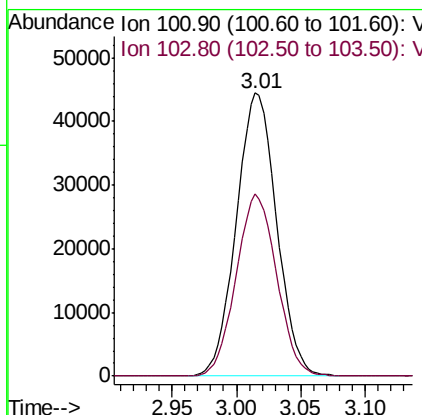
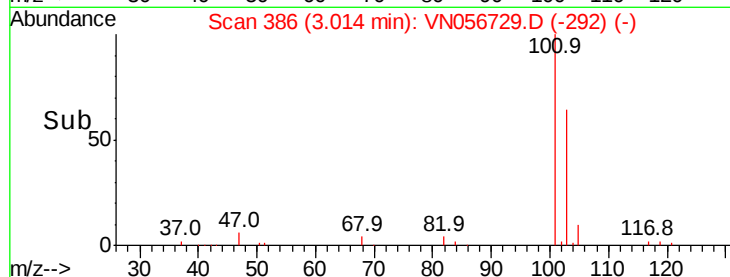
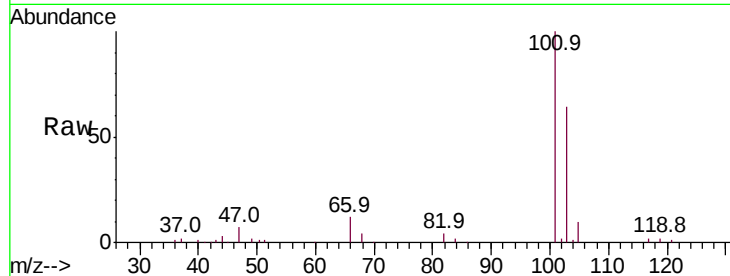
Trichlorofluoromethane
 Concen: 19.005 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

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Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	64.2	51.5	77.3	

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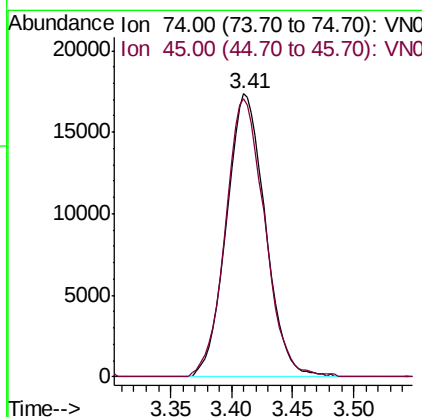
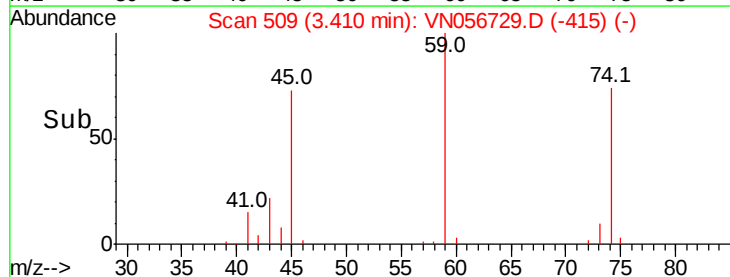
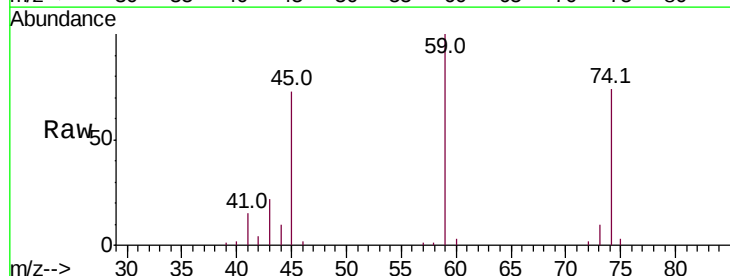
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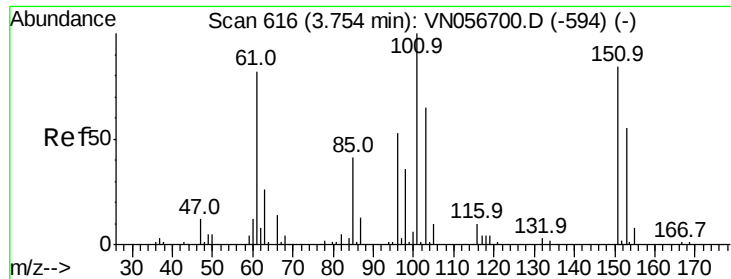


#8

Diethyl Ether
 Concen: 19.323 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ion	Ratio	Lower	Upper
74	100			
45	99.9	49.4	148.2	





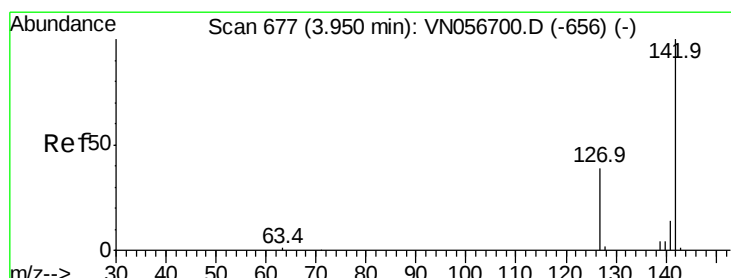
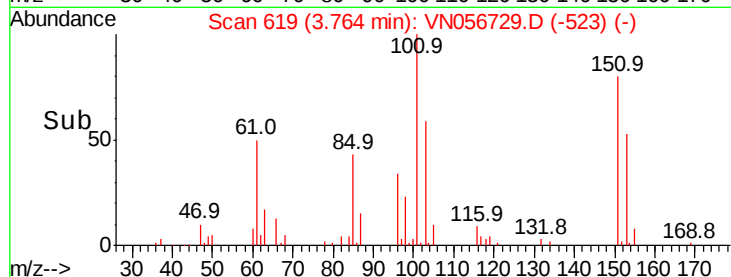
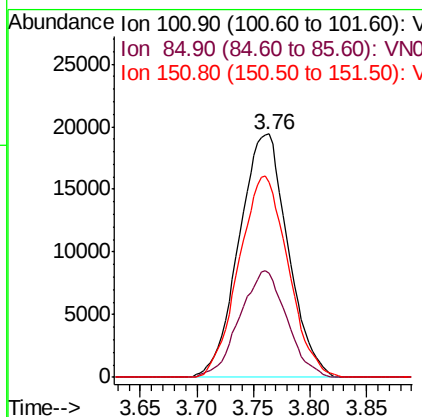
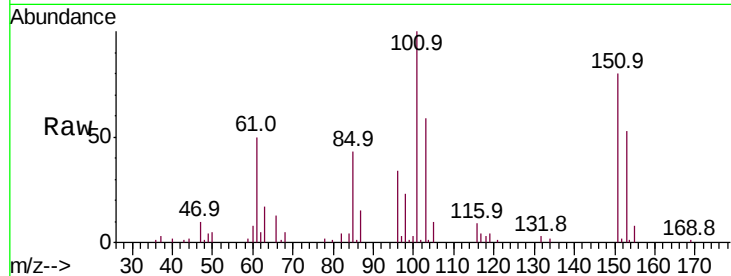
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 19.053 ug/l
 RT: 3.76 min Scan# 619
 Delta R.T. 0.01 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion:	101	Resp:	58332
Ion Ratio	Lower	Upper	
101	100		
85	42.0	33.3	49.9
151	83.1	67.0	100.6

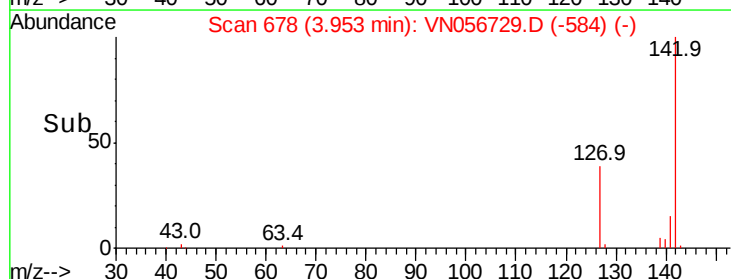
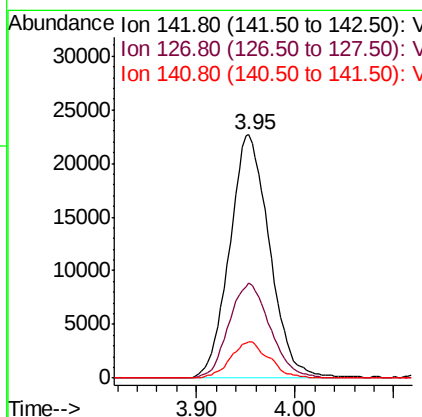
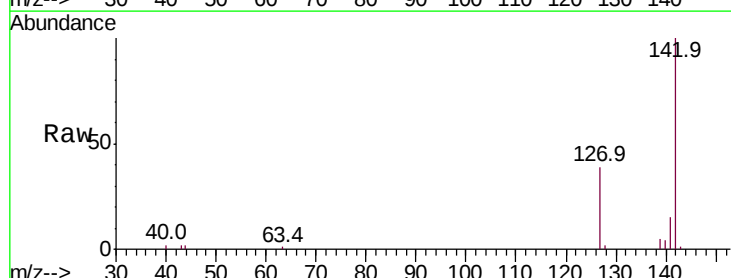
Manual Integrations
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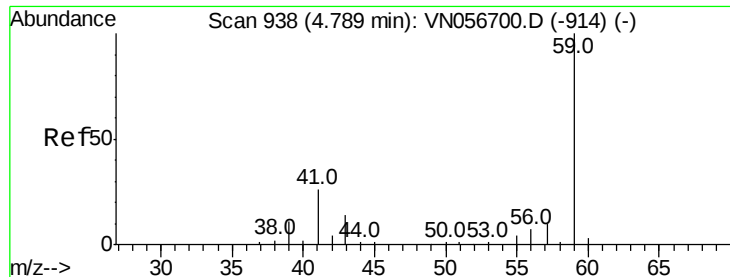
MMDadoda
 7/17/2019 1:31:49 AM



#10
 Methyl Iodide
 Concen: 15.557 ug/l
 RT: 3.95 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion:	142	Resp:	63708
Ion Ratio	Lower	Upper	
142	100		
127	40.2	30.7	46.1
141	14.3	11.3	16.9





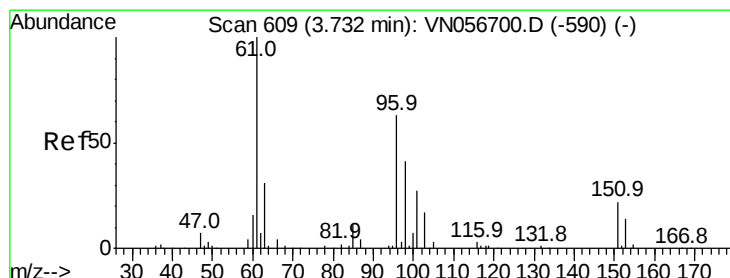
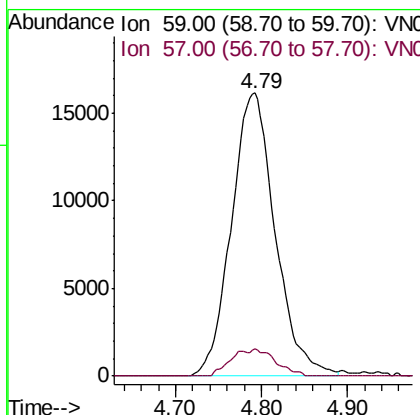
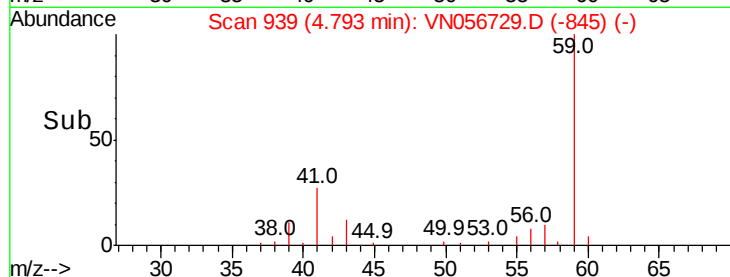
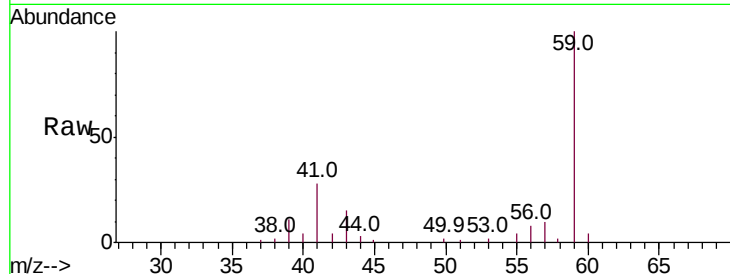
#11
Tert butyl alcohol
Concen: 94.989 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.4	8.0	12.0#

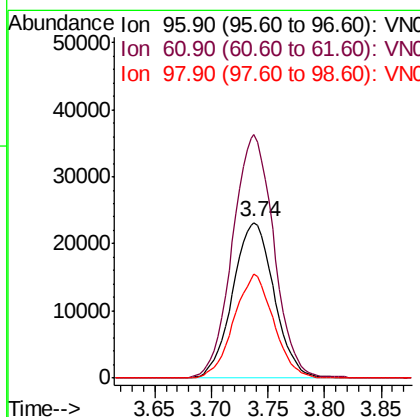
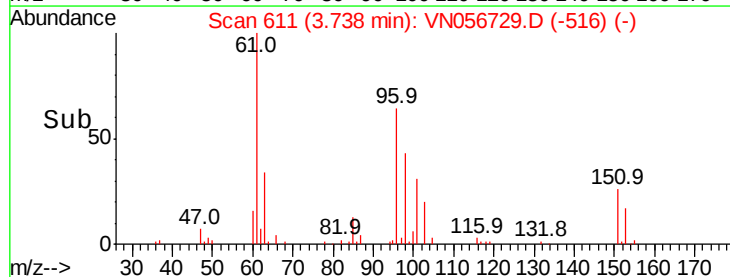
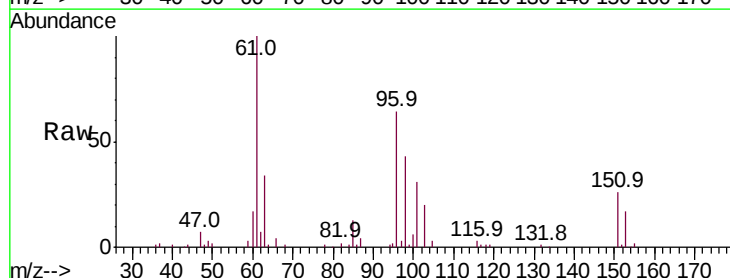
Manual Integrations
APPROVED

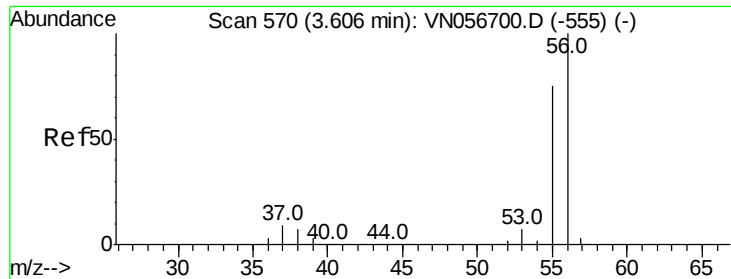
MMDadoda
7/17/2019 1:31:49 AM



#12
1,1-Dichloroethene
Concen: 19.152 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.01 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.8	126.6	189.8
98	66.9	51.4	77.2





#13

Acrolein

Concen: 98.145 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 56 Resp: 18771

Ion Ratio Lower Upper

56 100

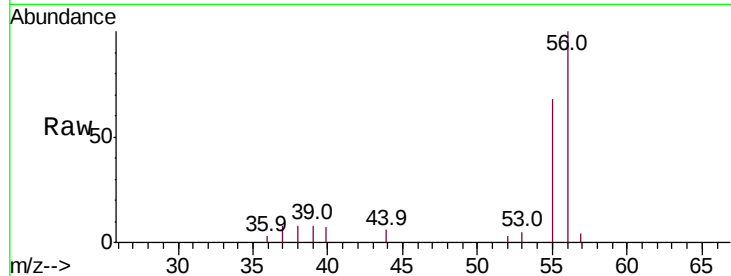
55 70.3 58.0 87.0

Manual Integrations

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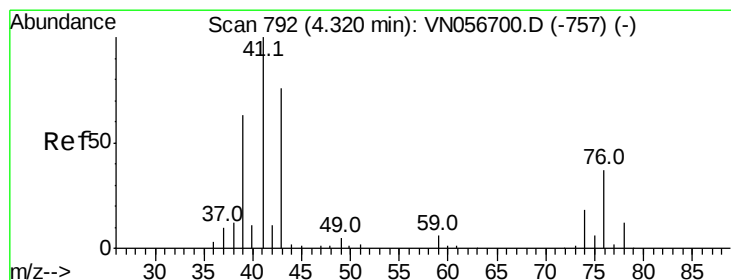
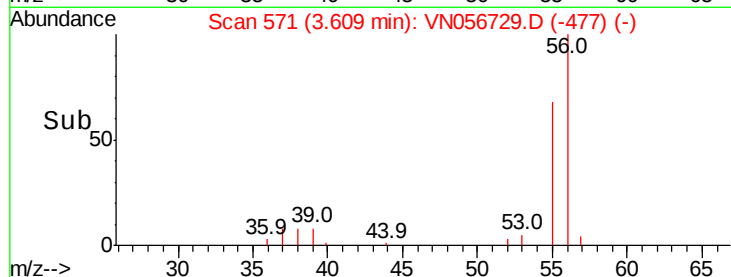
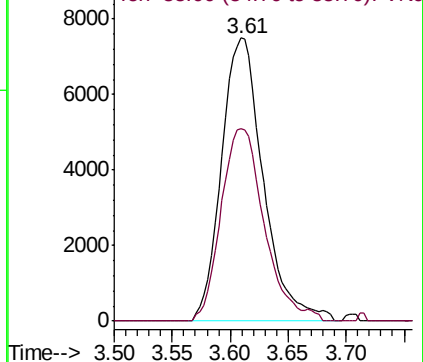
MMDadoda

7/17/2019 1:31:49 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.357 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

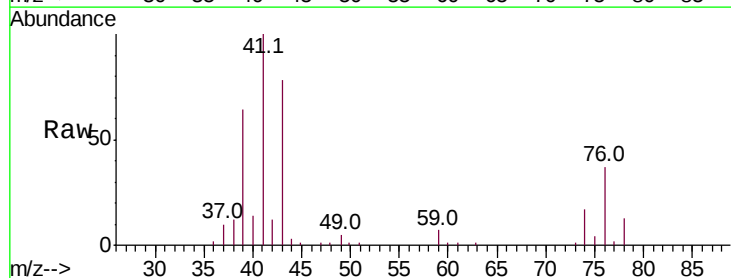
Tgt Ion: 41 Resp: 97488

Ion Ratio Lower Upper

41 100

39 59.5 46.9 70.3

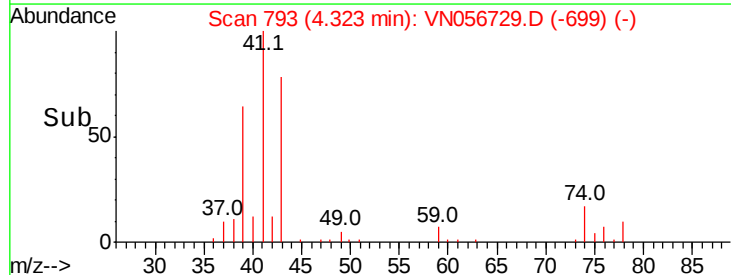
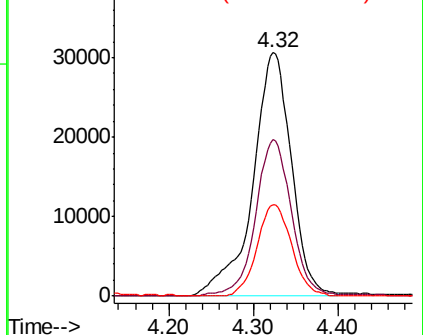
76 33.6 26.5 39.7

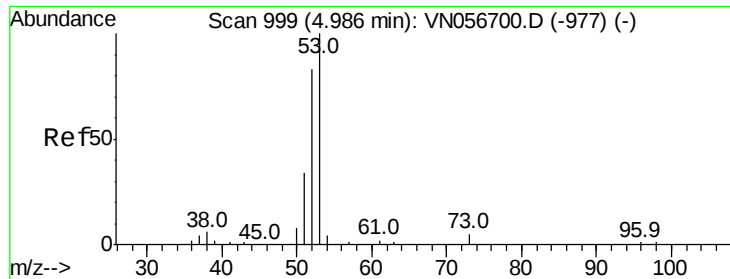


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 96.613 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

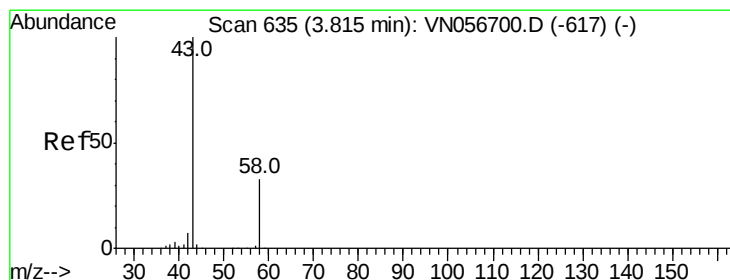
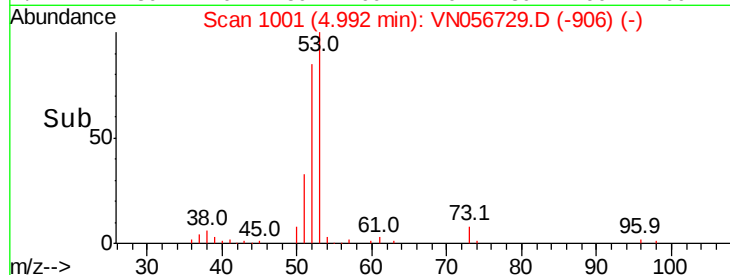
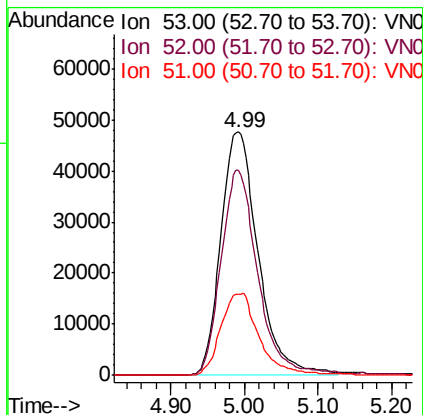
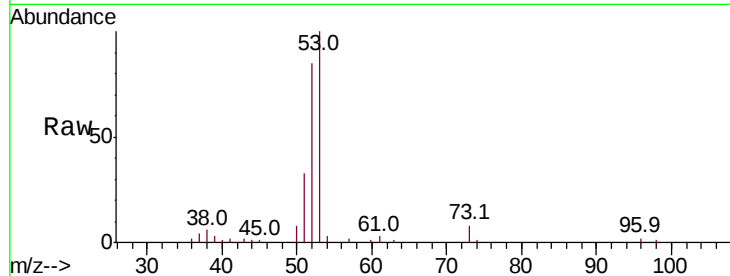
ClientSampleId :

VN0715WBS02

Tot Ion:	53	Resp:	167809
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.6	99.8
51	34.5	28.4	42.6

Manual Integrations
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#16

Acetone

Concen: 78.923 ug/l

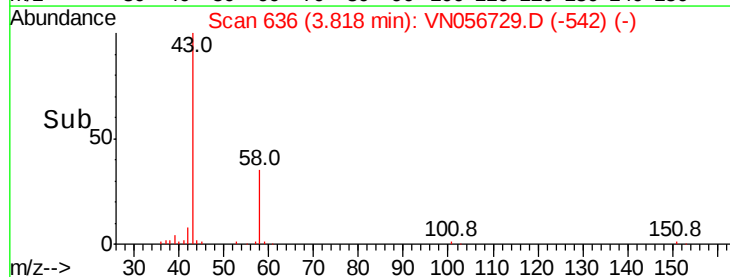
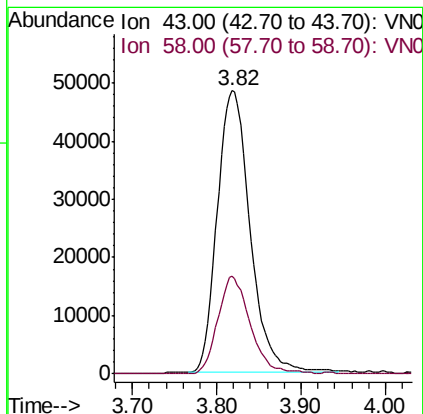
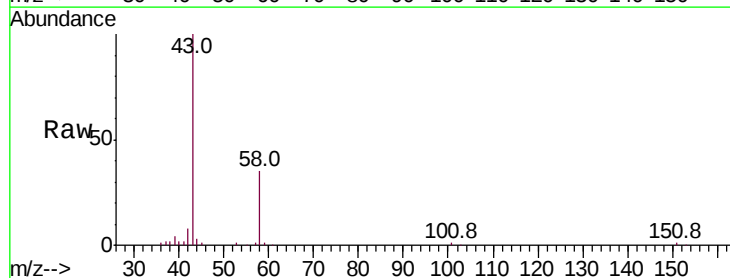
RT: 3.82 min Scan# 636

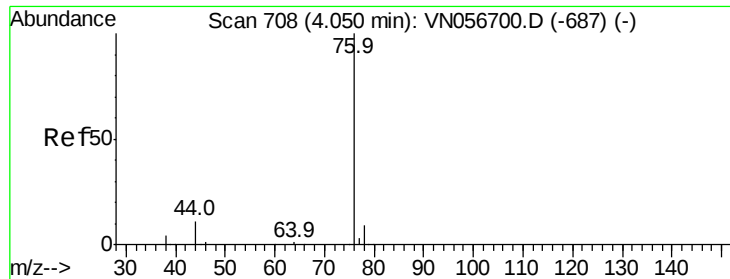
Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion:	43	Resp:	131420
Ion	Ratio	Lower	Upper
43	100		
58	34.8	26.7	40.1





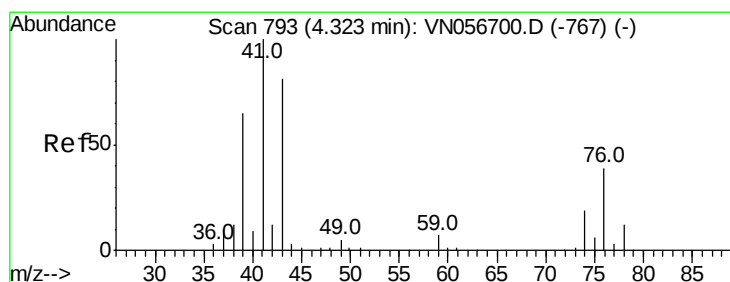
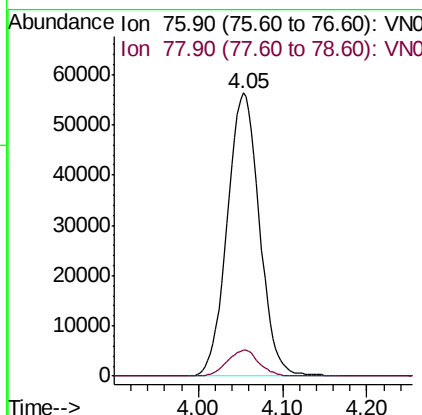
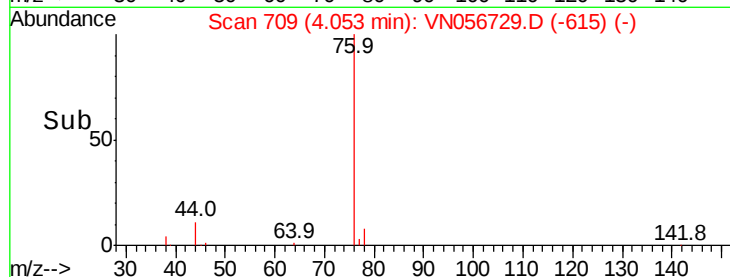
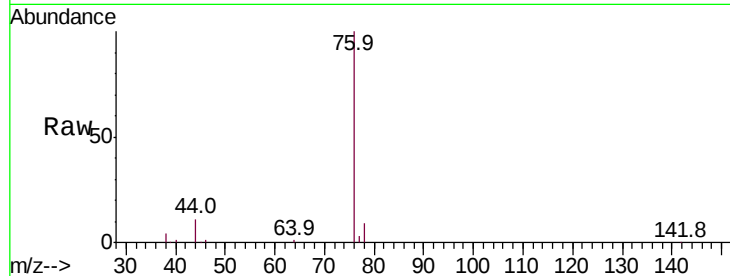
#17
Carbon Disulfide
Concen: 18.469 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion: 76 Resp: 149877
Ion Ratio Lower Upper
76 100
78 9.0 7.4 11.0

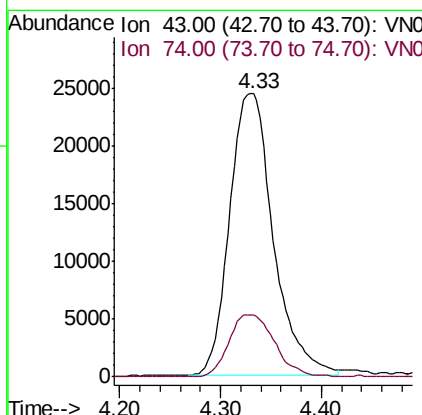
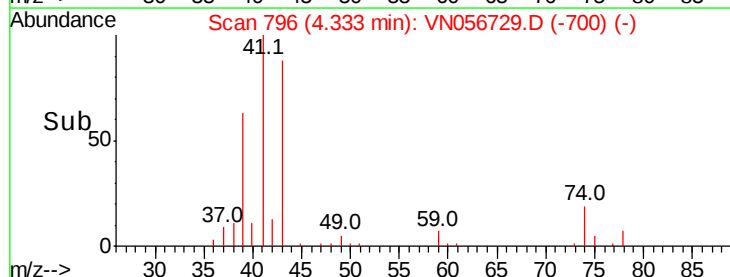
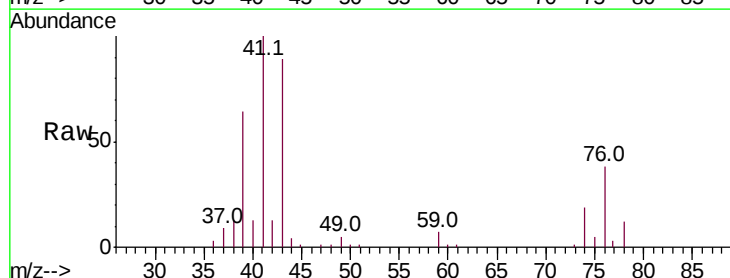
Manual Integrations
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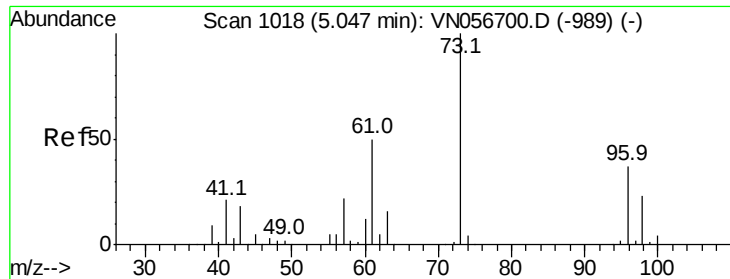
MMDadoda
7/17/2019 1:31:49 AM



#18
Methyl Acetate
Concen: 18.948 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 43 Resp: 73123
Ion Ratio Lower Upper
43 100
74 22.9 18.9 28.3





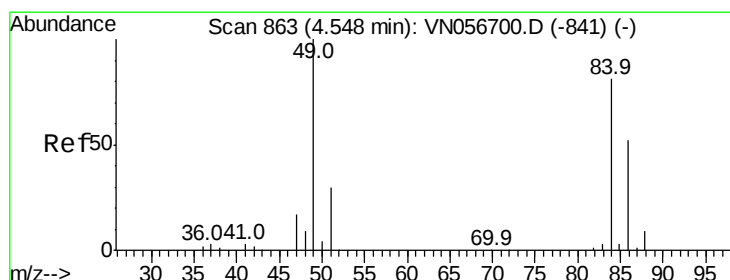
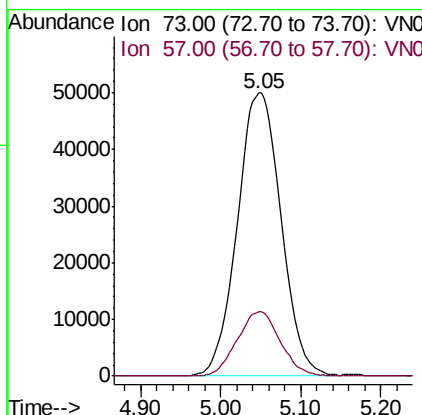
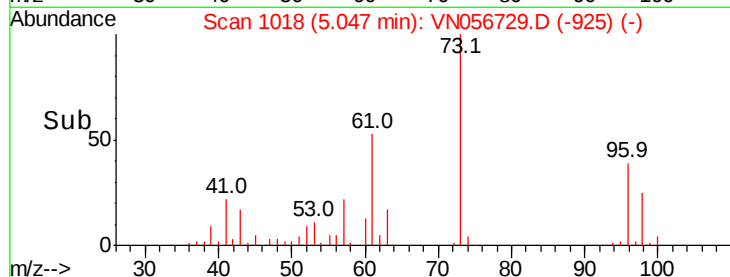
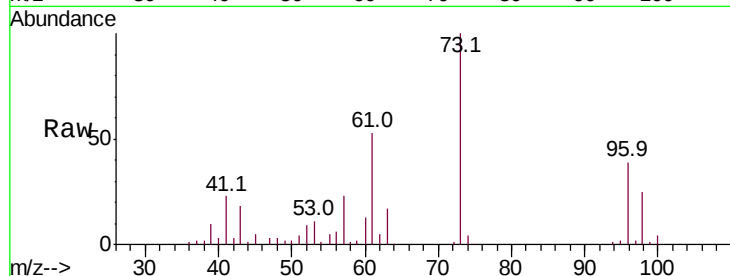
#19
Methvl tert-butvl Ether
Concen: 19.006 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion: 73 Resp: 185970
Ion Ratio Lower Upper
73 100
57 22.6 17.9 26.9

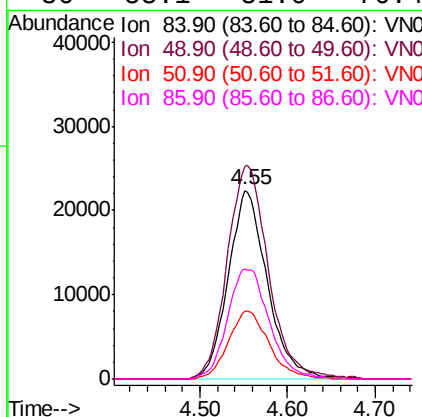
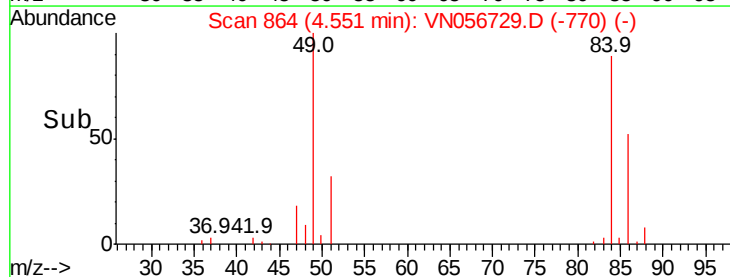
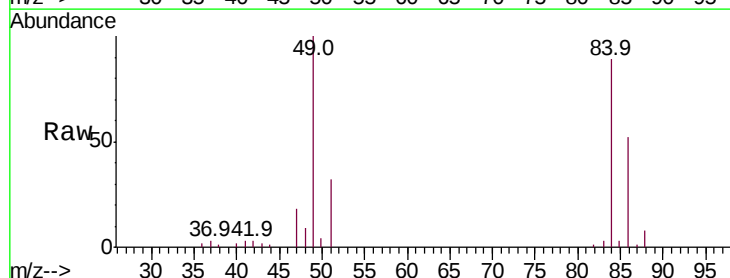
Manual Integrations
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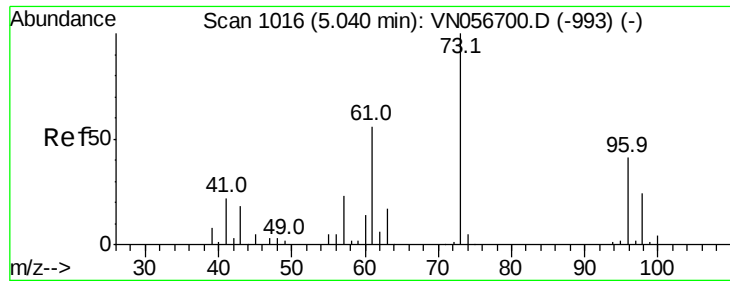
MMDadoda
7/17/2019 1:31:49 AM



#20
Methylene Chloride
Concen: 19.077 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 84 Resp: 69421
Ion Ratio Lower Upper
84 100
49 112.5 98.2 147.4
51 35.9 29.6 44.4
86 58.1 51.0 76.4





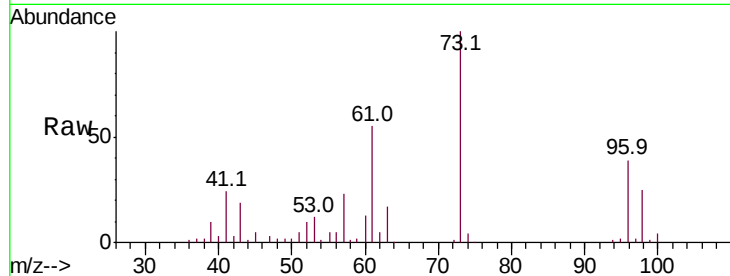
#21
trans-1,2-Dichloroethene
Concen: 19.597 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.5	109.4	164.2
98	64.2	48.0	72.0

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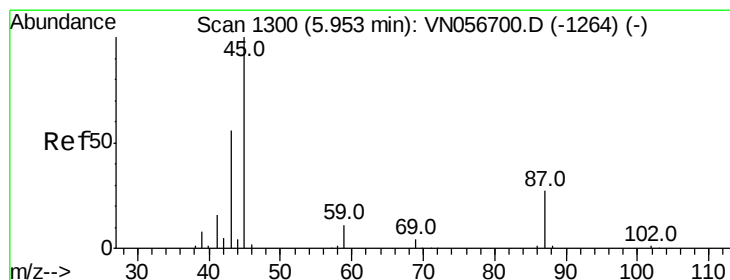
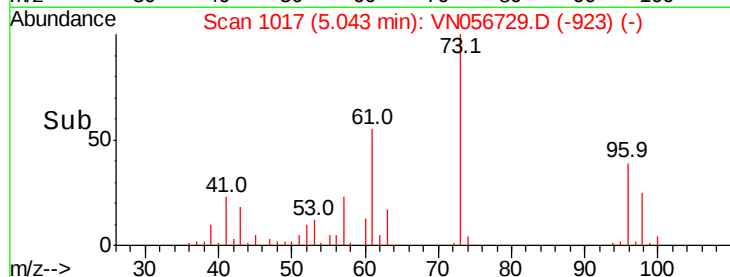
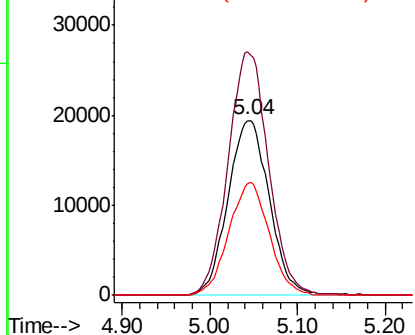


Abundance

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: 19.781 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.8	45.6	68.4
87	28.2	22.0	33.0
59	12.3	9.3	13.9

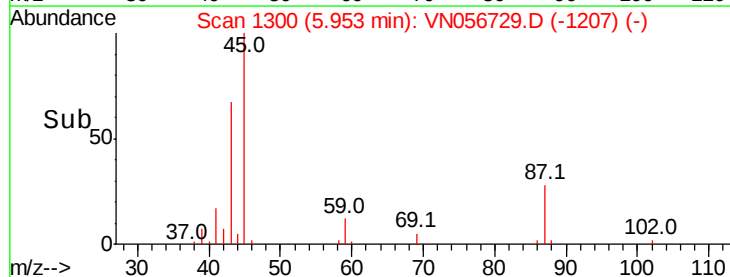
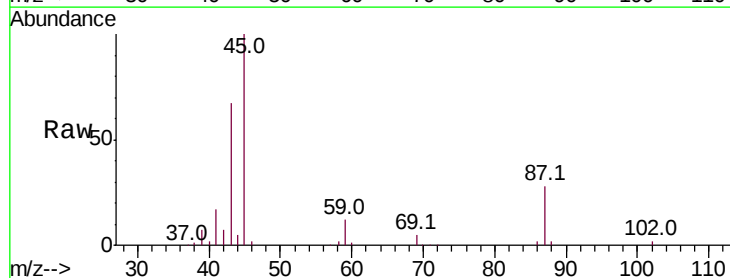
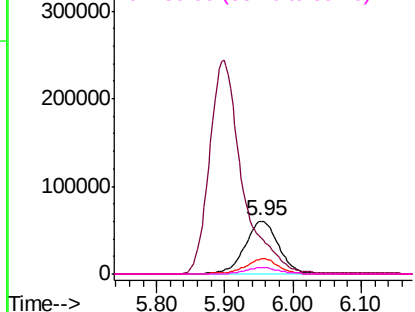
Abundance

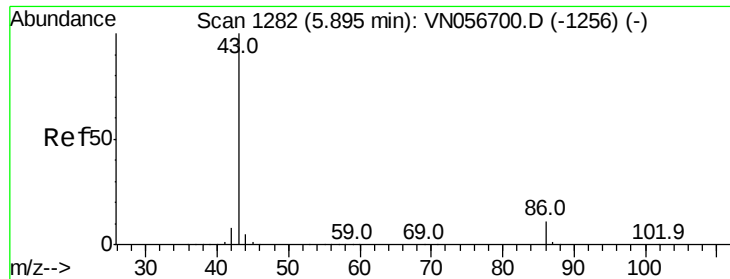
Ion 45.00 (44.70 to 45.70): VNC

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





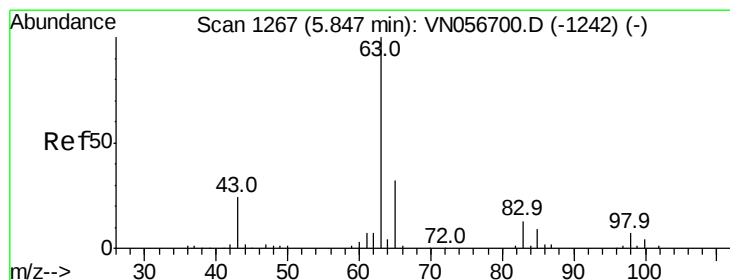
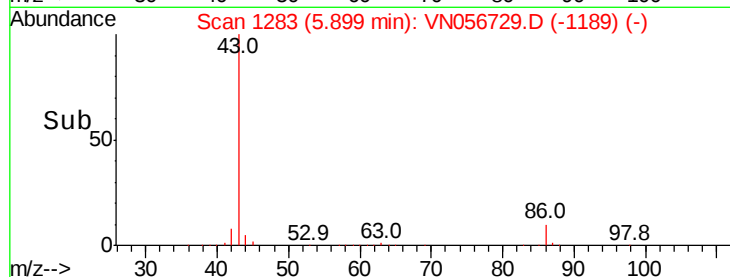
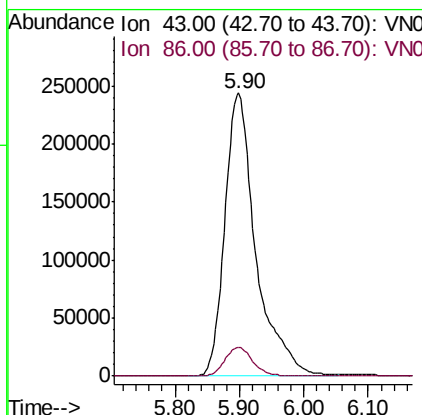
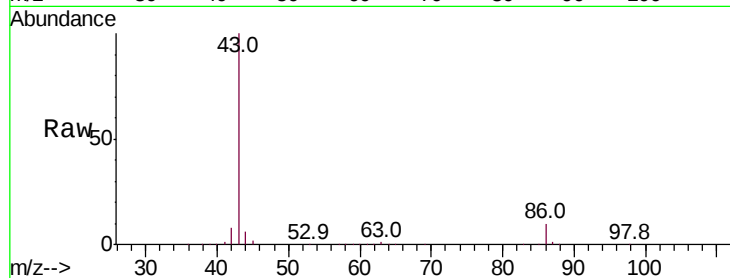
#23
 Vinyl Acetate
 Concen: 96.224 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.5	12.7

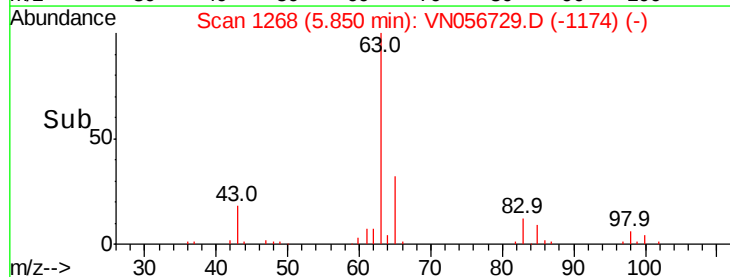
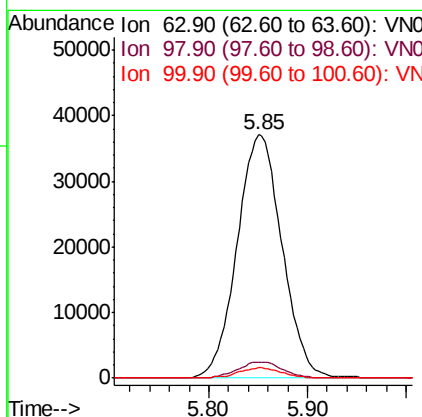
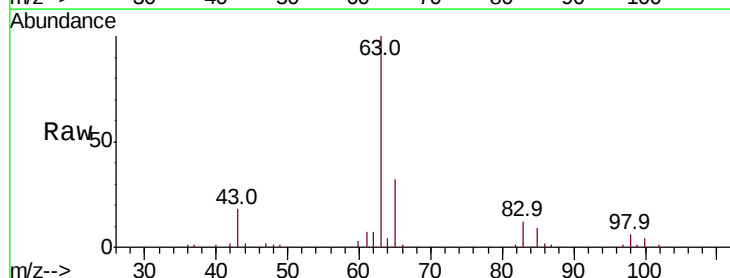
Manual Integrations
 APPROVED

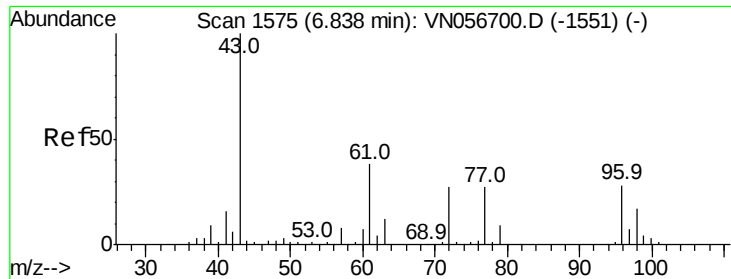
MMDadoda
 7/17/2019 1:31:49 AM



#24
 1,1-Dichloroethane
 Concen: 19.209 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.3	9.9
100	4.2	2.0	5.8





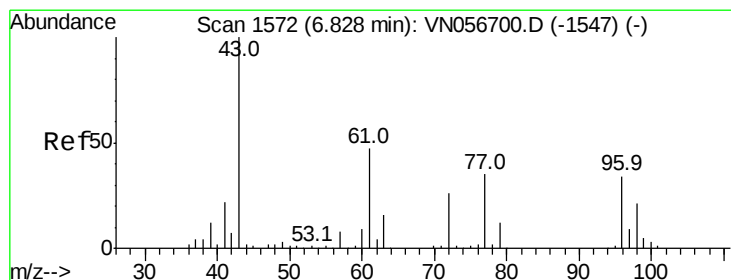
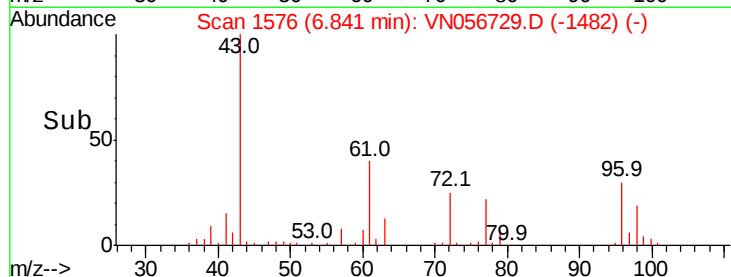
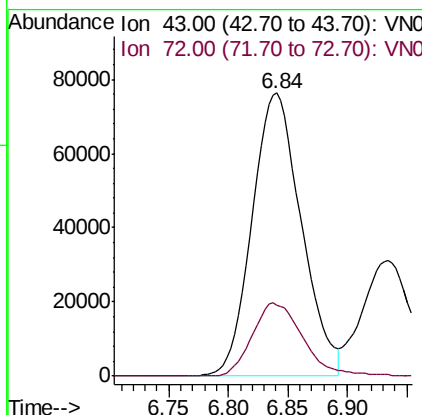
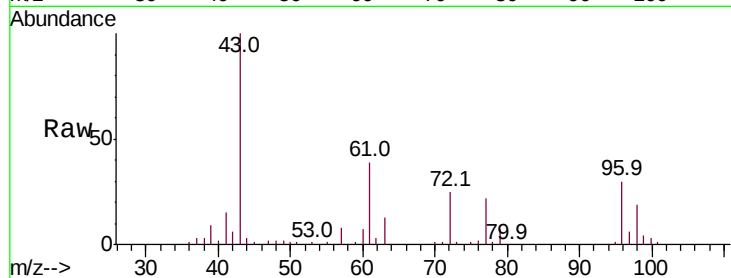
#25
2-Butanone
Concen: 89.396 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion: 43 Resp: 217634
Ion Ratio Lower Upper
43 100
72 25.3 21.2 31.8

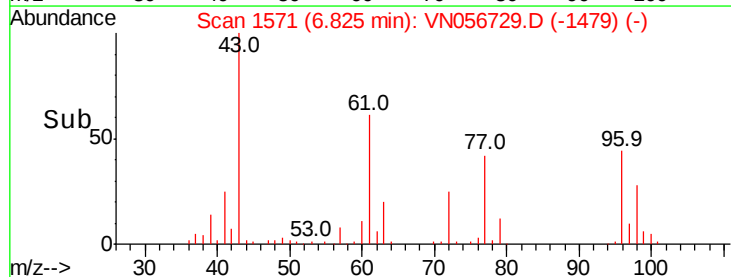
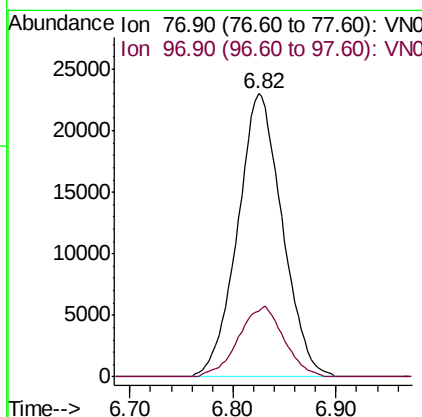
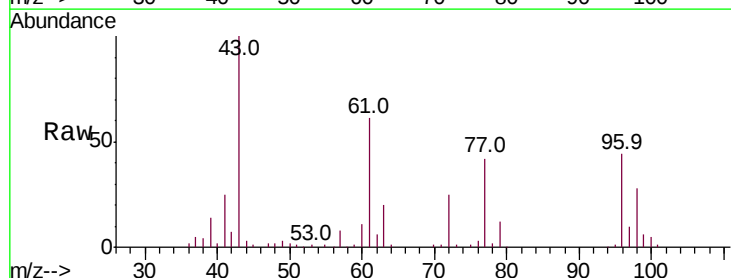
Manual Integrations
APPROVED

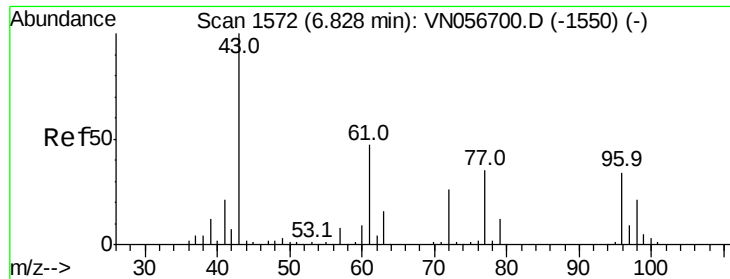
MMDadoda
7/17/2019 1:31:49 AM



#26
2,2-Dichloropropane
Concen: 15.775 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 77 Resp: 69130
Ion Ratio Lower Upper
77 100
97 25.3 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.863 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

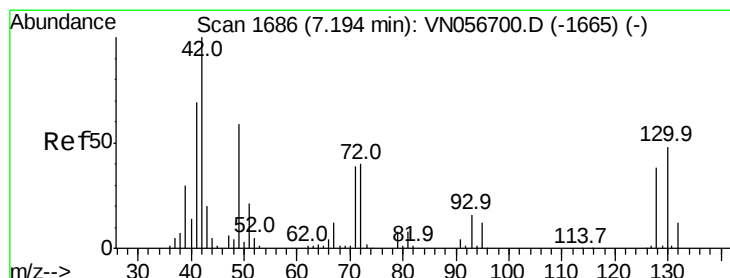
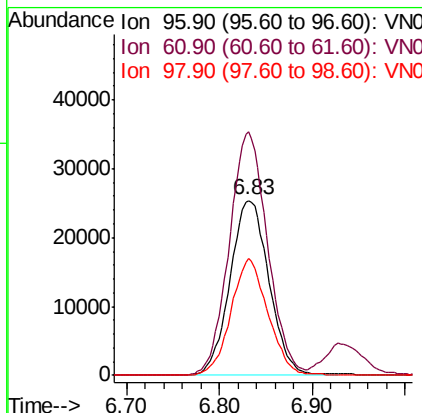
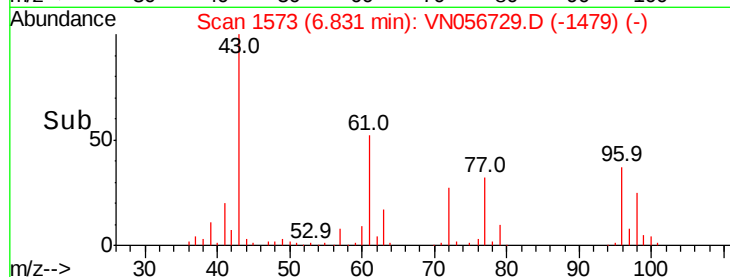
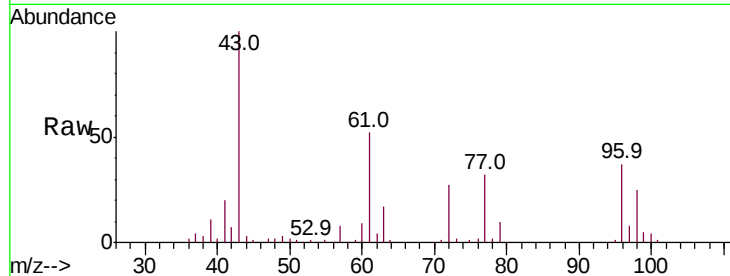
ClientSampleId :

VN0715WBS02

Tot Ion:	96	Resp:	74193
Ion	Ratio	Lower	Upper
96	100		
61	136.3	0.0	281.4
98	63.3	0.0	127.8

Manual Integrations
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#28

Bromochloromethane

Concen: 19.161 ug/l

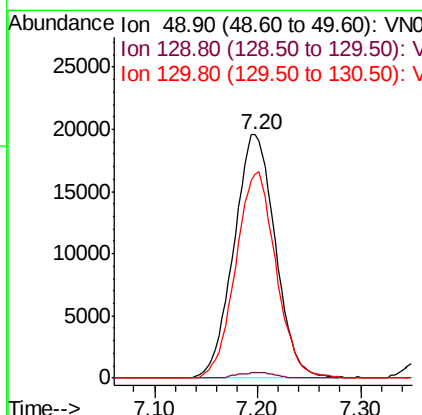
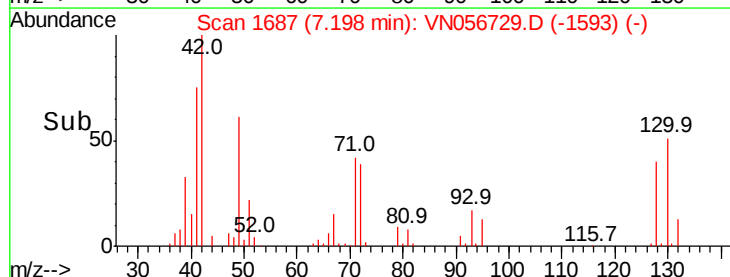
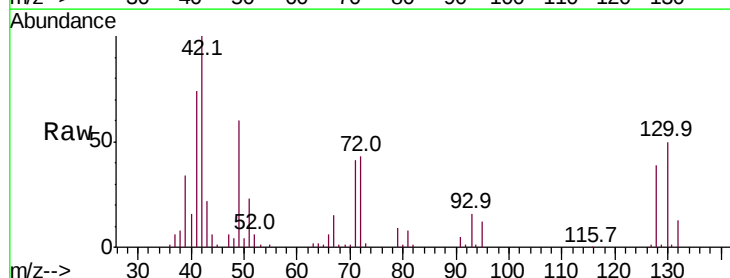
RT: 7.20 min Scan# 1687

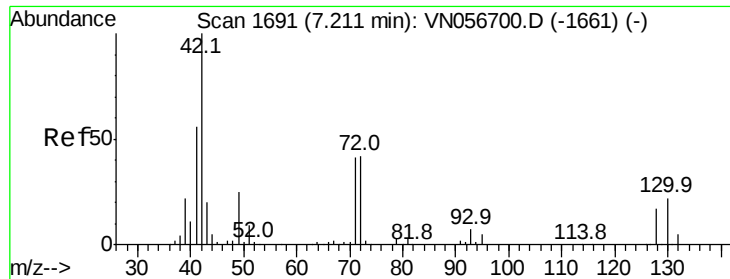
Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion:	49	Resp:	54754
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	82.3	64.7	97.1





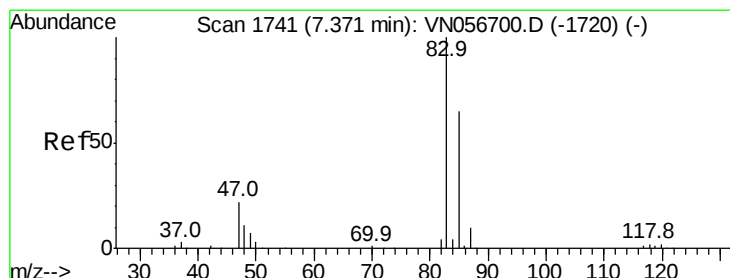
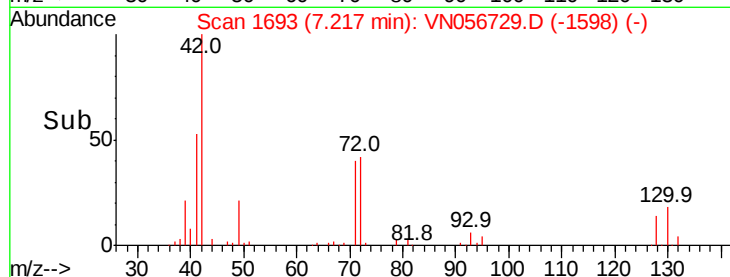
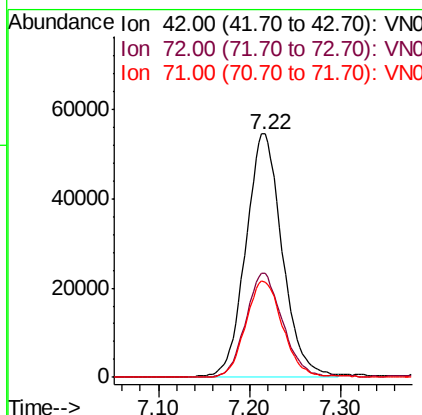
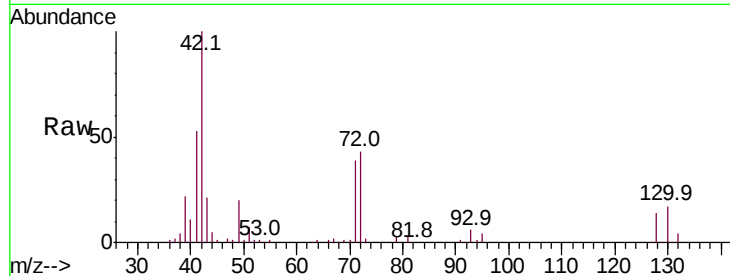
#29
Tetrahydrofuran
Concen: 96.025 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.8	33.5	50.3
71	40.3	31.8	47.8

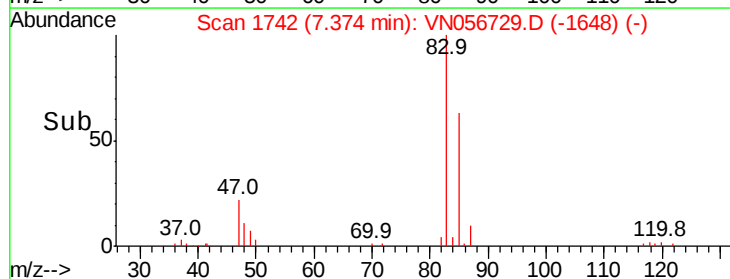
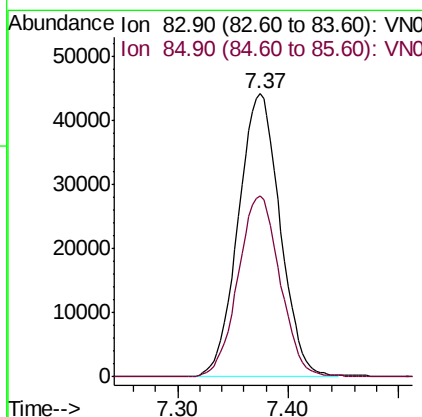
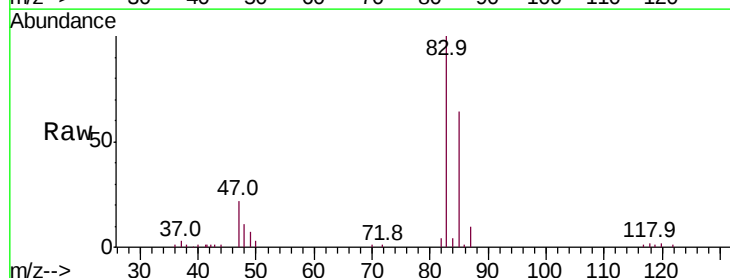
Manual Integrations
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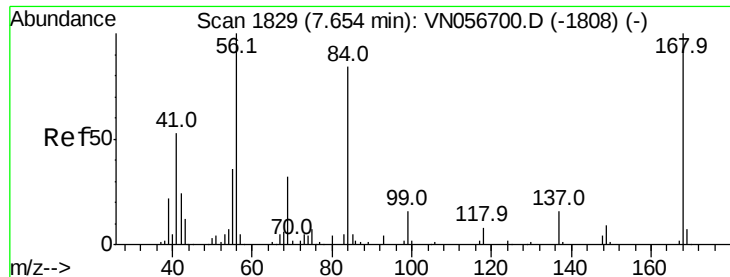
MMDadoda
7/17/2019 1:31:49 AM



#30
Chloroform
Concen: 19.109 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.9	77.9





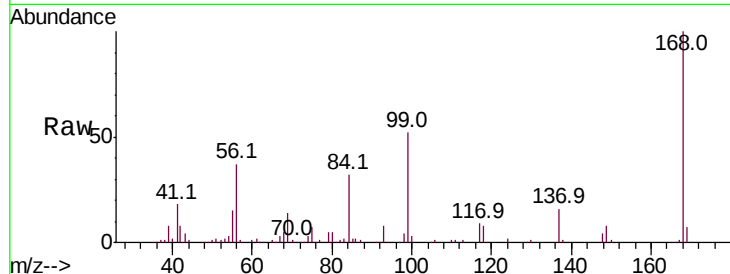
#31
Cyclohexane
Concen: 19.443 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	38.2	25.8	38.8
84	84.3	67.4	101.0

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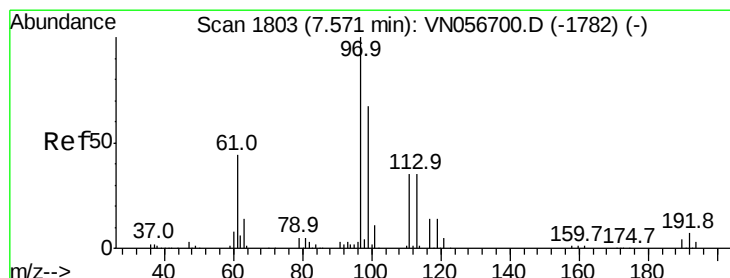
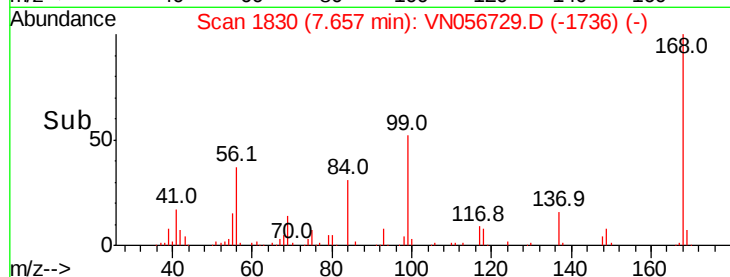
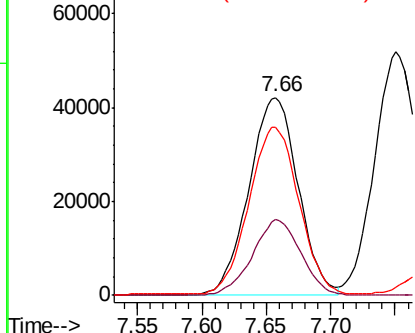


Abundance

Ion 56.00 (55.70 to 56.70): VNO

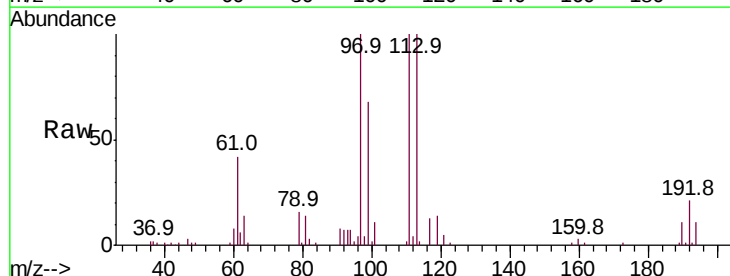
Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#32
1,1,1-Trichloroethane
Concen: 19.337 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
97	100		
99	67.4	52.0	78.0
61	43.0	34.3	51.5

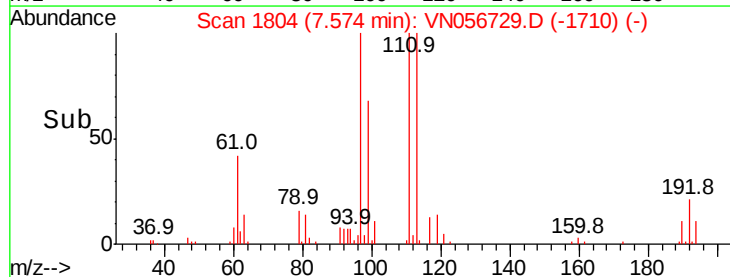
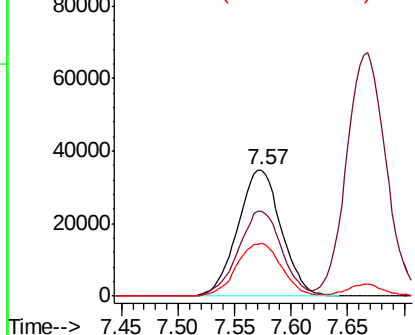


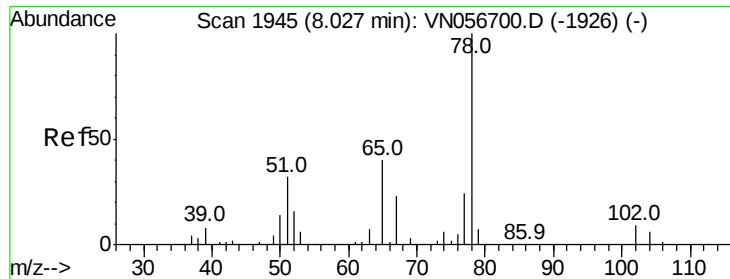
Abundance

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: 51.096 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 65 Resp: 184633

Ion Ratio Lower Upper

65 100

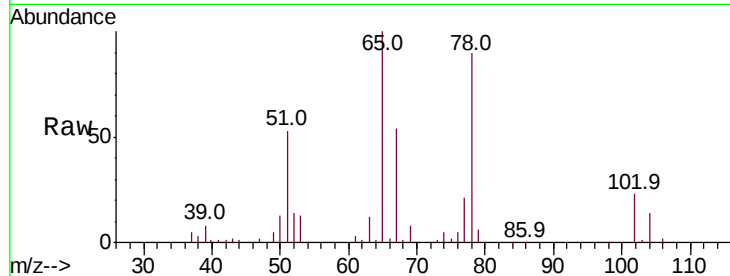
67 55.0 0.0 109.0

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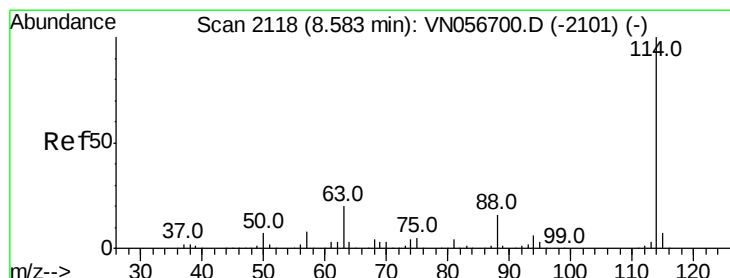
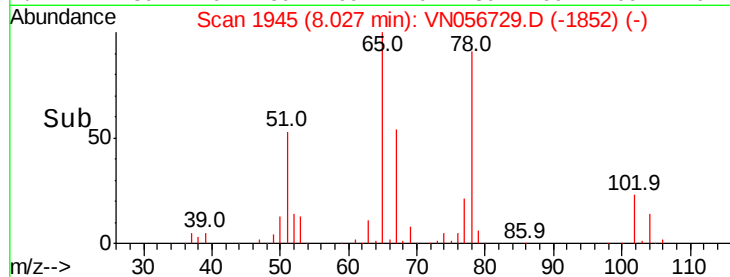
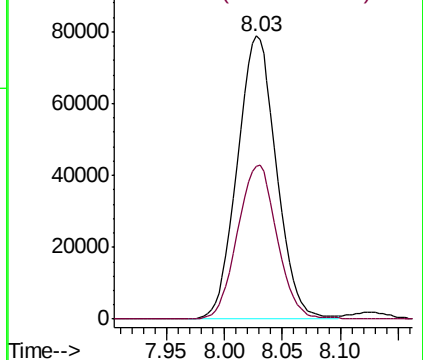
MMDadoda

7/17/2019 1:31:49 AM



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

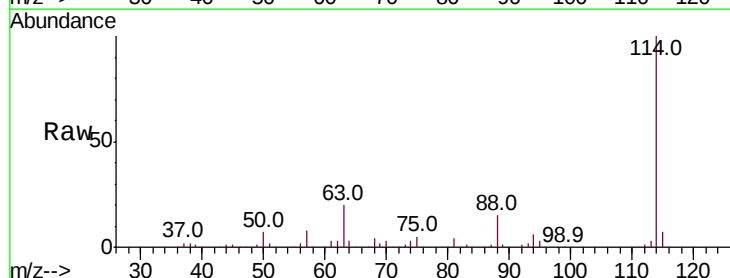
Tgt Ion: 114 Resp: 520371

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.4

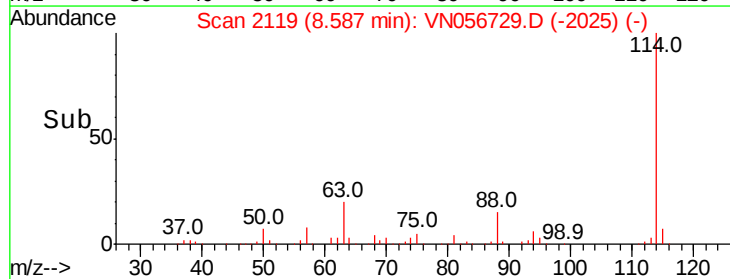
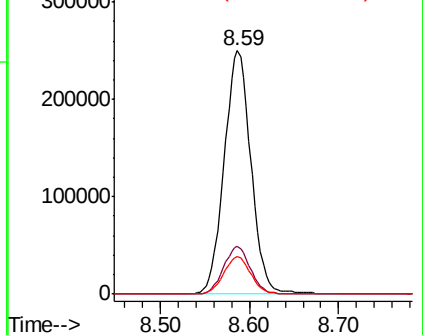
88 15.2 0.0 31.2

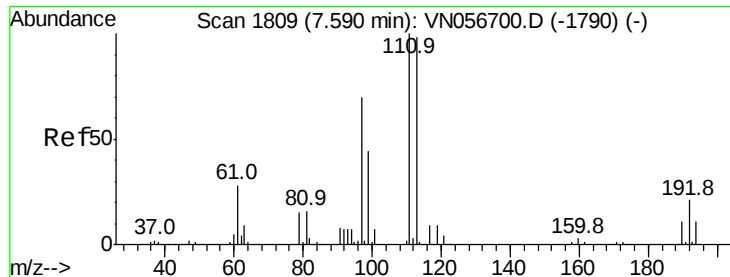


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





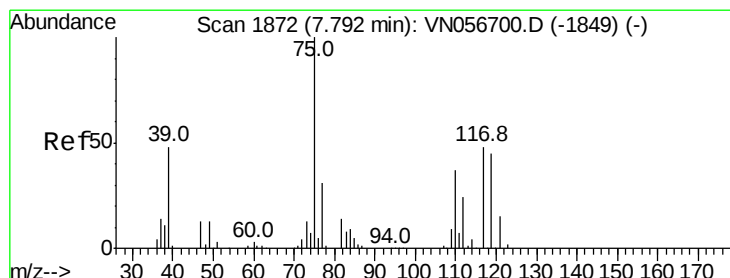
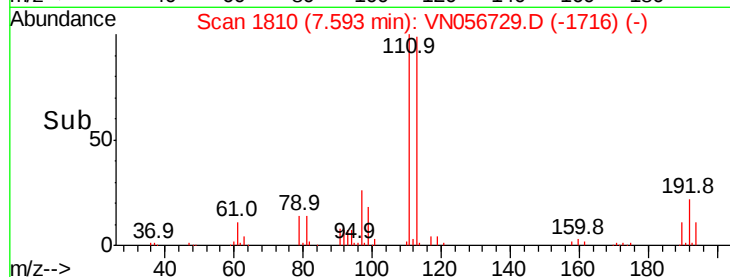
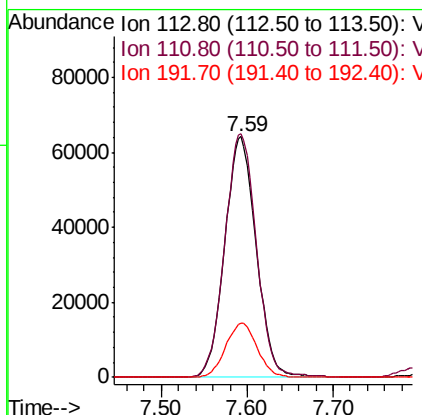
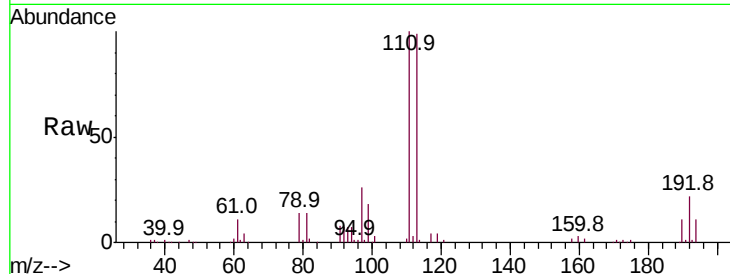
#35
 Dibromofluoromethane
 Concen: 50.390 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.8	81.8	122.6	
192	22.3	17.5	26.3	

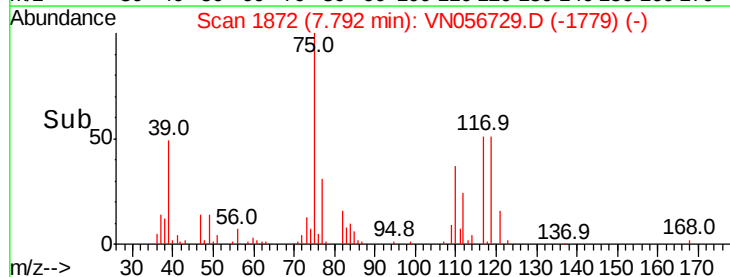
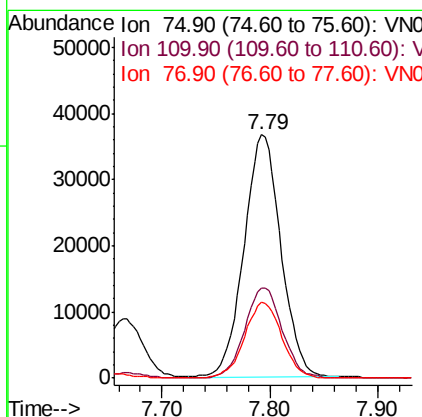
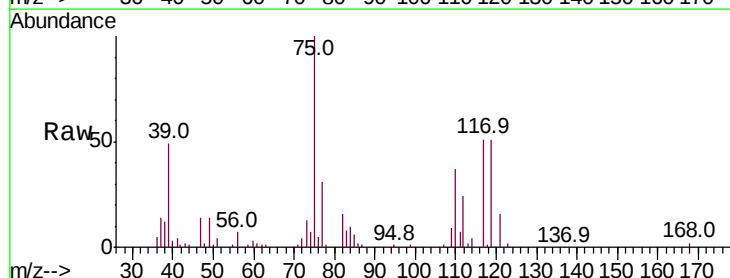
Manual Integrations
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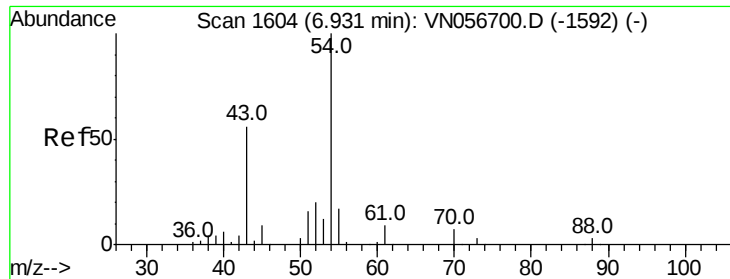
MMDadoda
 7/17/2019 1:31:49 AM



#36
 1,1-Dichloropropene
 Concen: 18.114 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.7	18.4	55.4	
77	31.5	24.6	36.8	





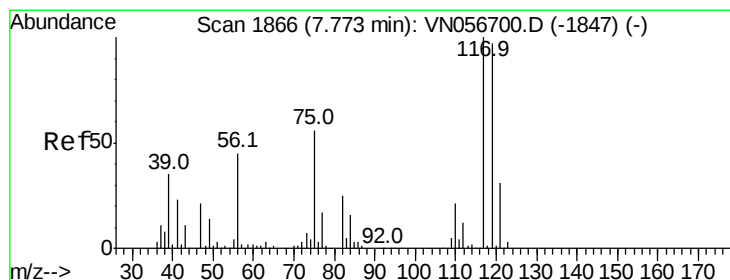
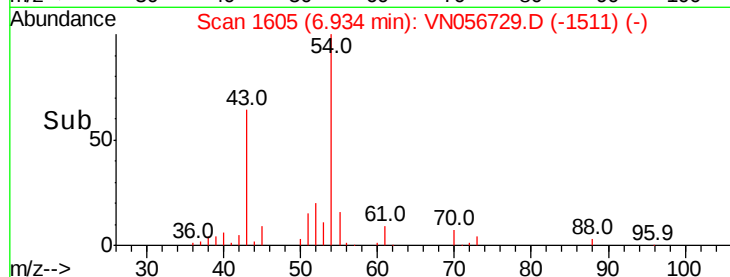
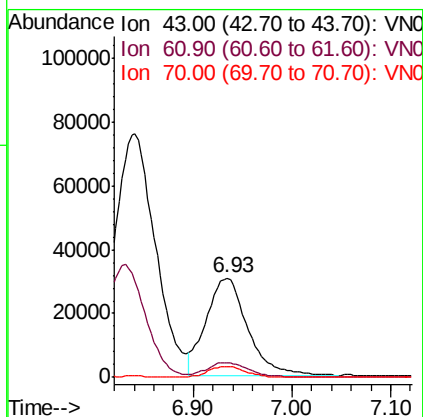
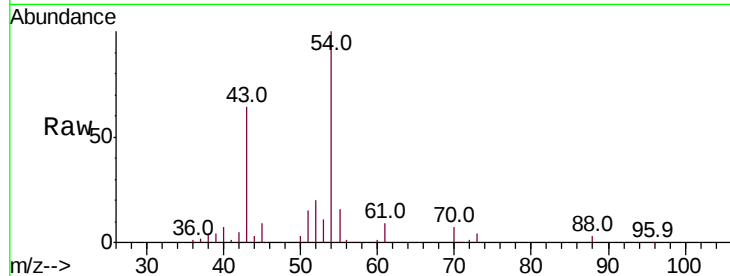
#37
Ethyl Acetate
Concen: 19.065 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.3	16.9
70	10.3	8.5	12.7

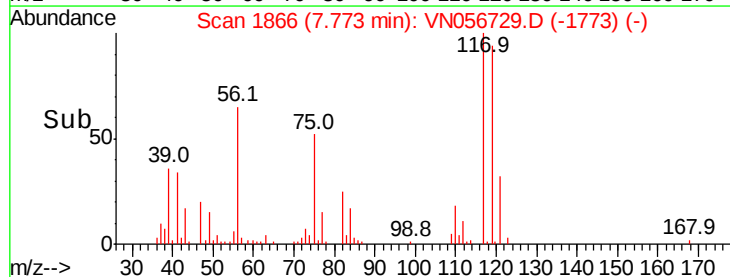
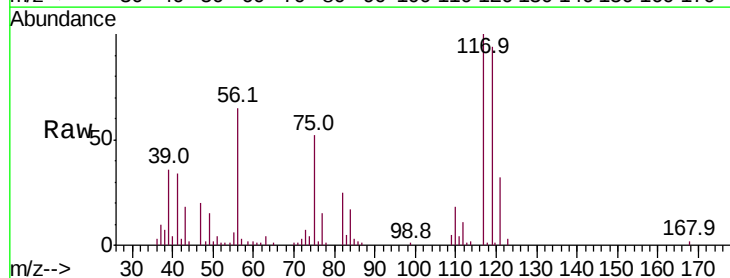
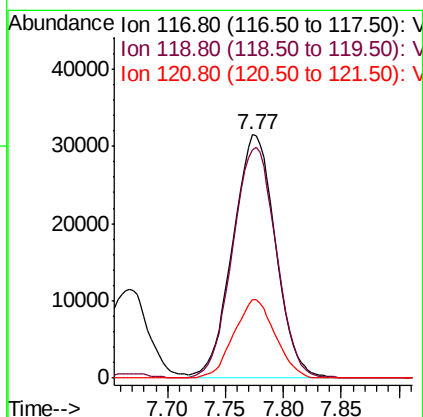
Manual Integrations
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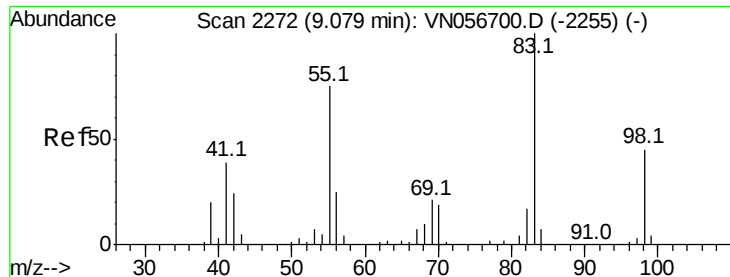
MMDadoda
7/17/2019 1:31:49 AM



#38
Carbon Tetrachloride
Concen: 17.909 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.8	77.5	116.3
121	32.2	24.7	37.1





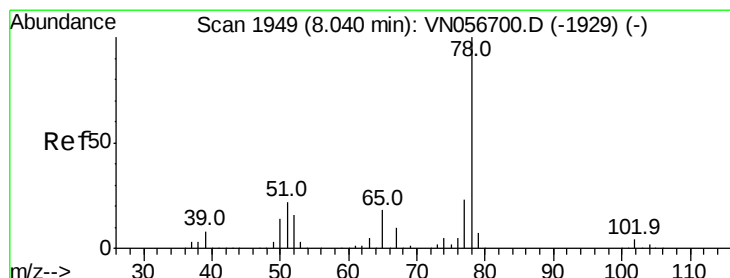
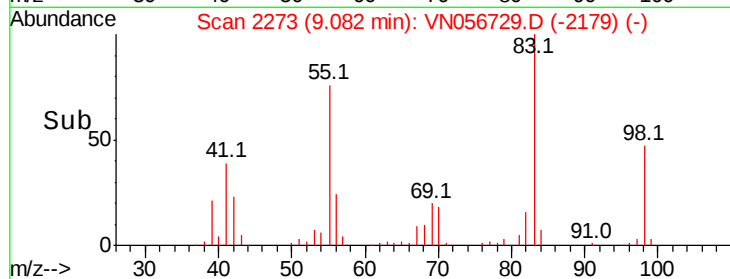
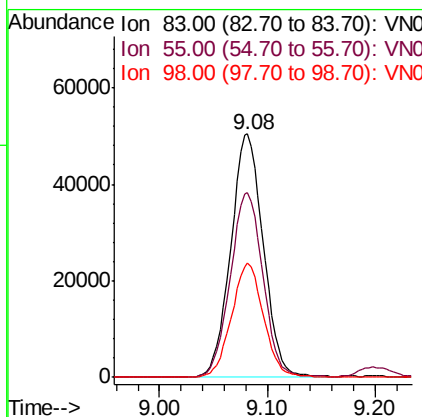
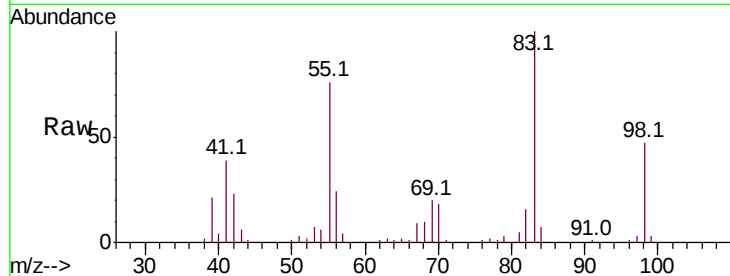
#39
Methvlcvclohexane
Concen: 17.846 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.8	60.4	90.6
98	46.7	35.8	53.8

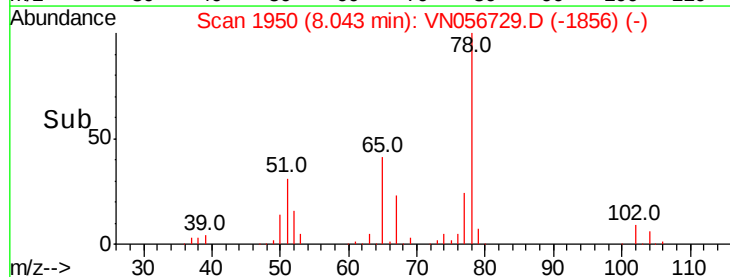
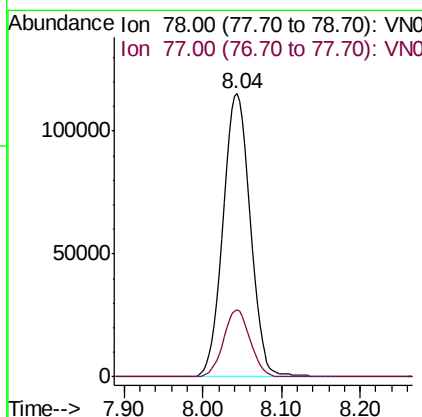
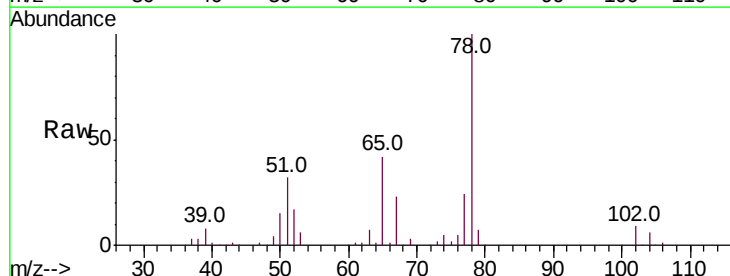
Manual Integrations
APPROVED

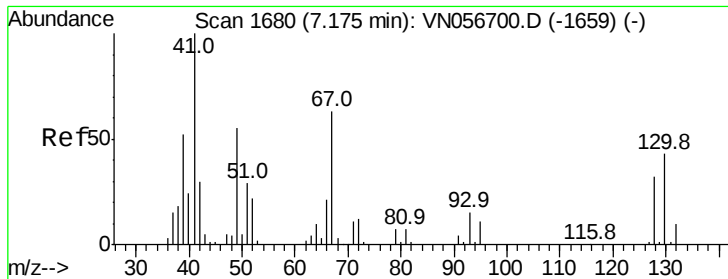
MMDadoda
7/17/2019 1:31:49 AM



#40
Benzene
Concen: 18.714 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	27.8





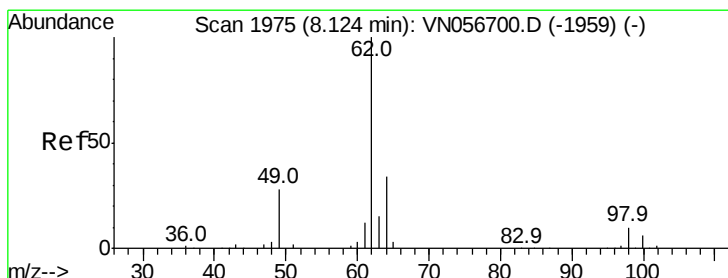
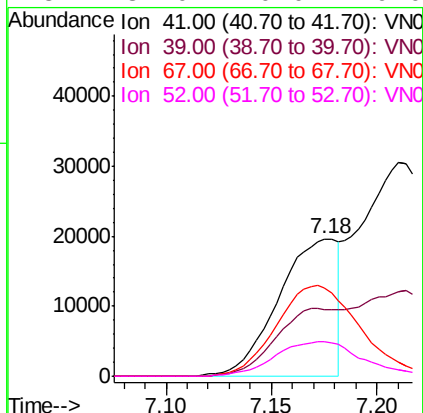
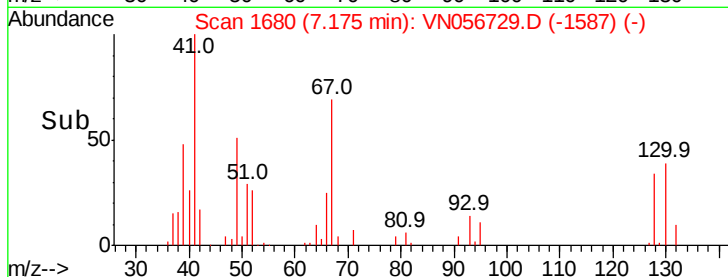
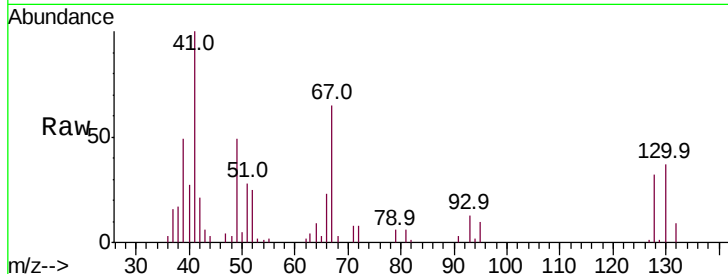
#41
Methacrylonitrile
Concen: 18.470 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	50.5	0.0	0.0#
67	93.8	0.0	0.0#
52	37.0	0.0	0.0#

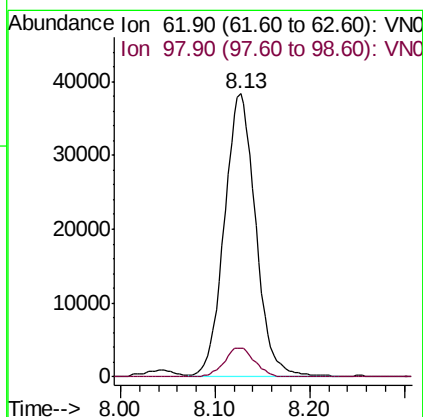
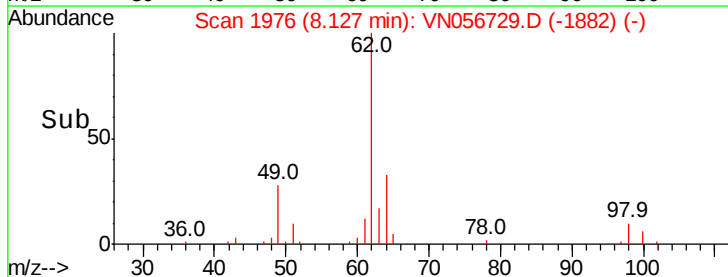
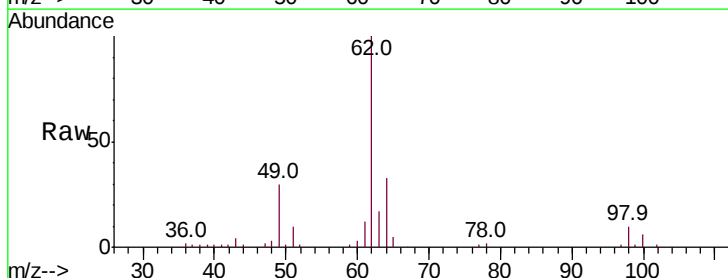
Manual Integrations
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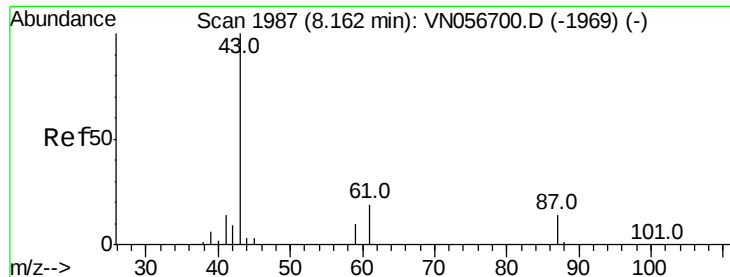
MMDadoda
7/17/2019 1:31:49 AM



#42
1,2-Dichloroethane
Concen: 18.926 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.8





#43

Isopropyl Acetate

Concen: 18.316 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

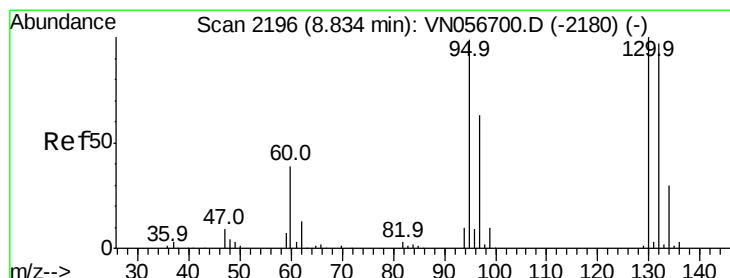
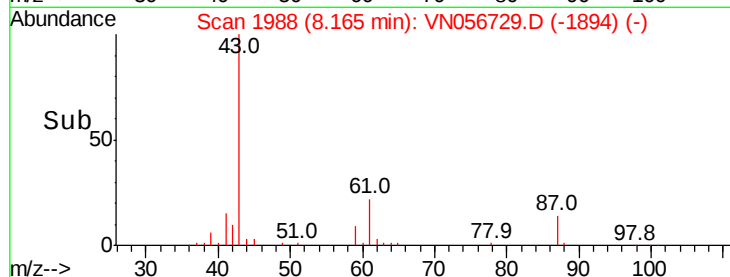
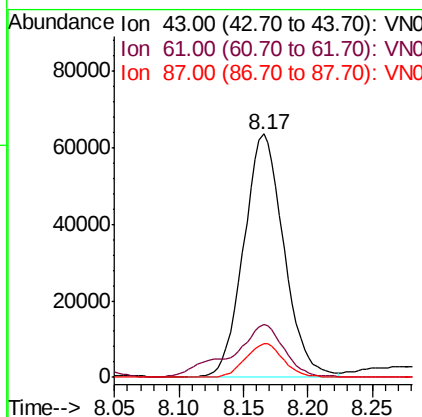
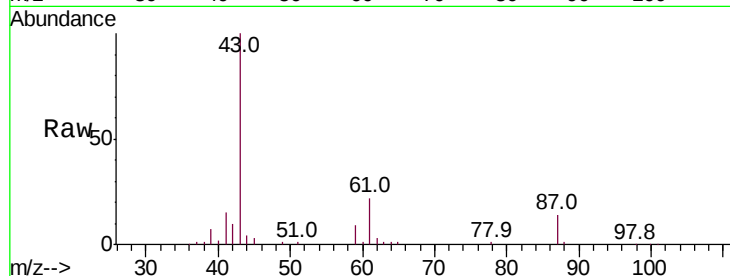
ClientSampleId :

VN0715WBS02

Tot Ion:	43	Resp:	136657
Ion Ratio	Lower	Upper	
43	100		
61	28.8	22.3	33.5
87	13.3	11.1	16.7

Manual Integrations
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7/17/2019 1:31:49 AM



#44

Trichloroethene

Concen: 18.605 ug/l

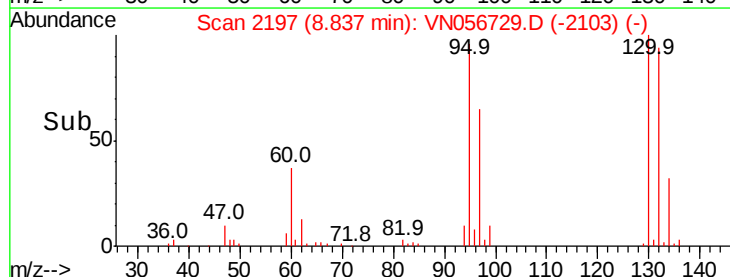
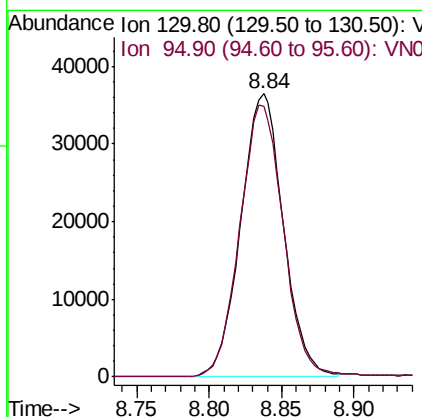
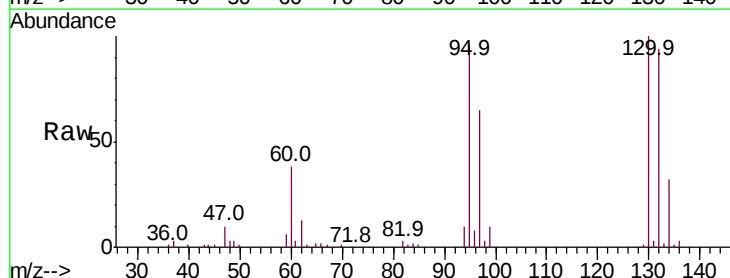
RT: 8.84 min Scan# 2197

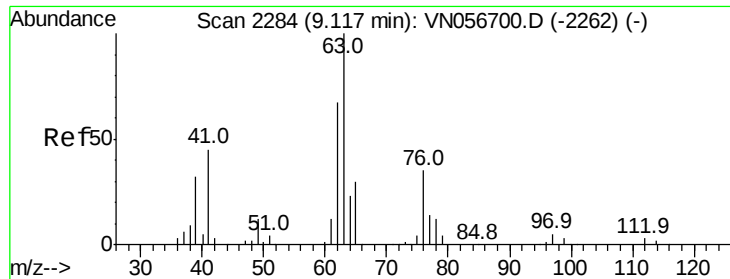
Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion:	130	Resp:	74544
Ion Ratio	Lower	Upper	
130	100		
95	95.6	0.0	197.2





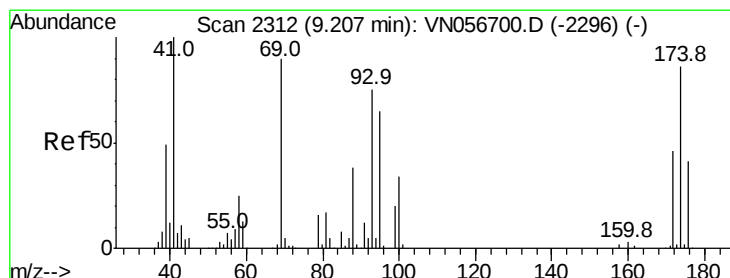
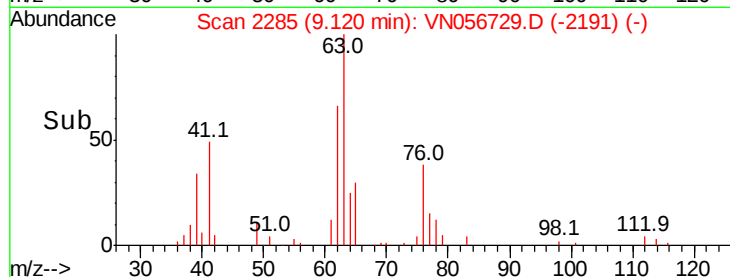
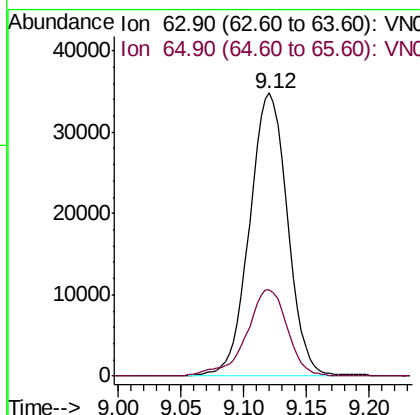
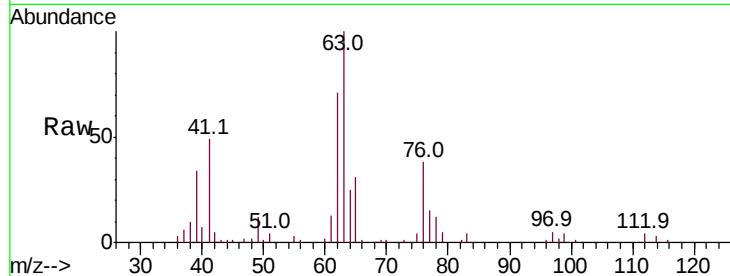
#45
 1,2-Dichloropropane
 Concen: 18.707 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion: 63 Resp: 73342
 Ion Ratio Lower Upper
 63 100
 65 30.6 24.0 36.0

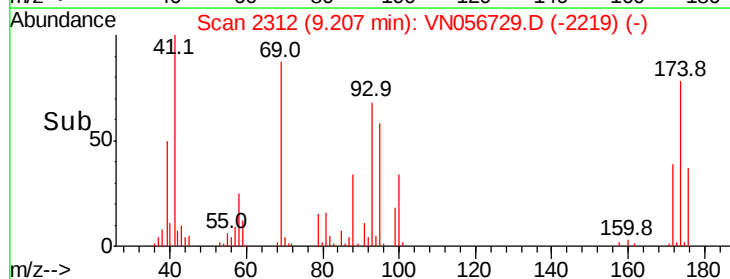
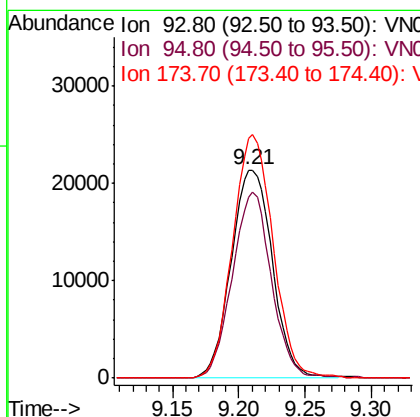
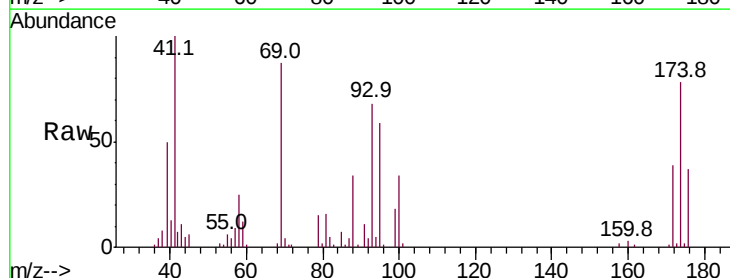
Manual Integrations
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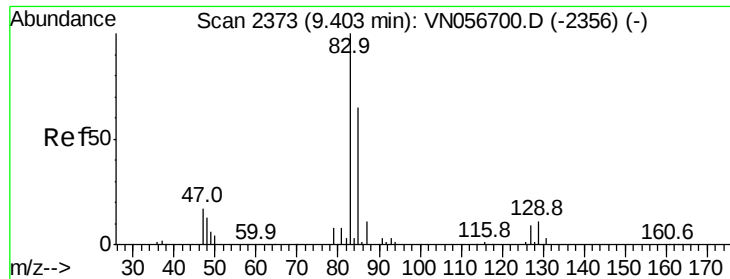
MMDadoda
 7/17/2019 1:31:49 AM



#46
 Dibromomethane
 Concen: 19.060 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion: 93 Resp: 46308
 Ion Ratio Lower Upper
 93 100
 95 84.5 67.4 101.0
 174 114.5 90.3 135.5





#47

Bromodichloromethane

Concen: 18.664 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

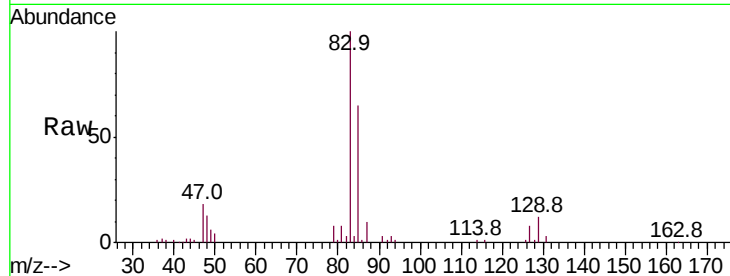
ClientSampleId :

VN0715WBS02

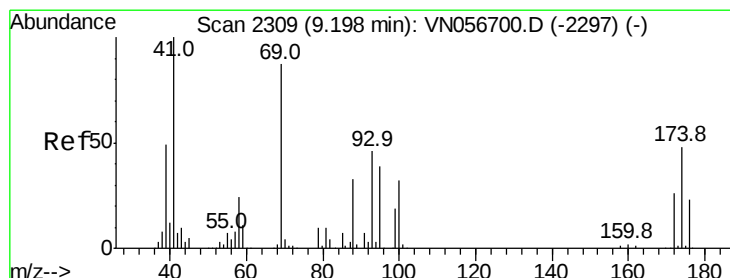
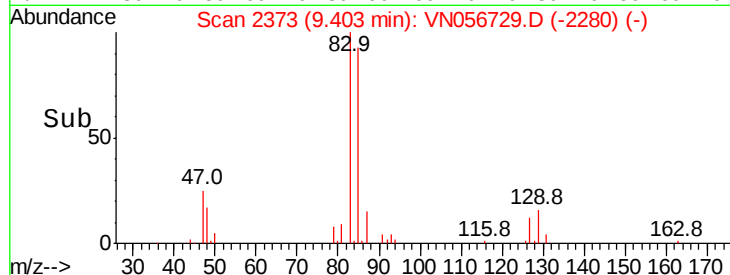
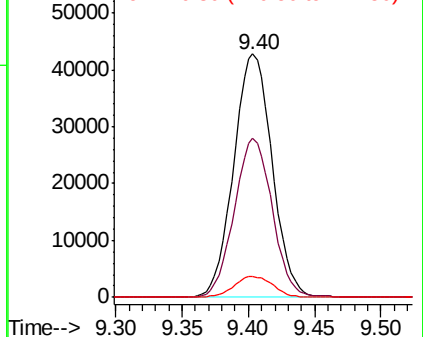
Tot Ion:	83	Resp:	86168
Ion Ratio	Lower	Upper	
83	100		
85	65.2	52.3	78.5
127	8.4	7.6	11.4

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN056729.D (-2280) (-)



#48

Methyl methacrylate

Concen: 18.481 ug/l

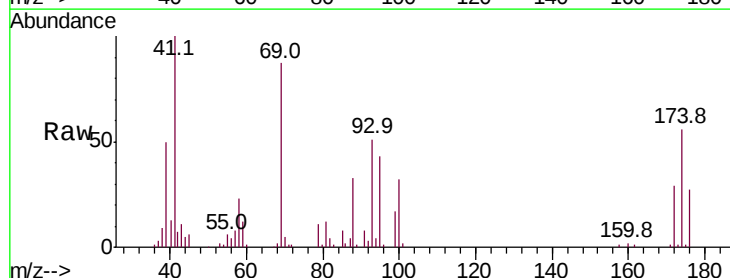
RT: 9.20 min Scan# 2310

Delta R.T. 0.00 min

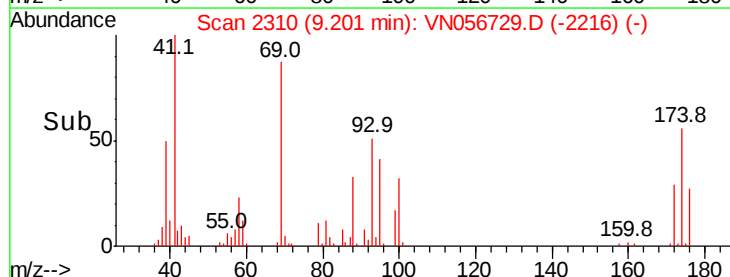
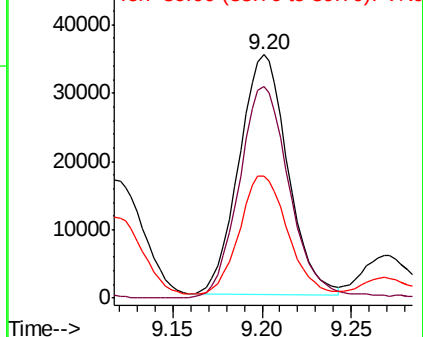
Lab File: VN056729.D

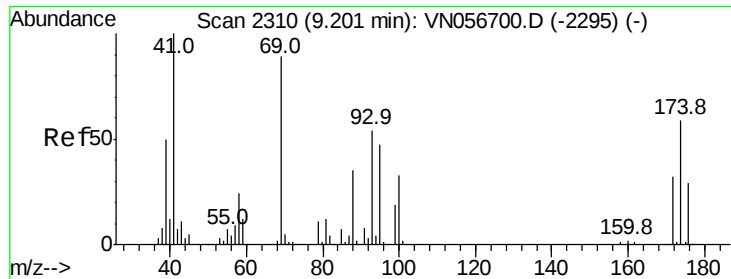
Acq: 15 Jul 2019 22:38

Tgt Ion:	41	Resp:	66686
Ion Ratio	Lower	Upper	
41	100		
69	92.4	71.4	107.0
39	51.8	41.2	61.8



Abundance Ion 41.00 (40.70 to 41.70): VN056729.D (-2216) (-)





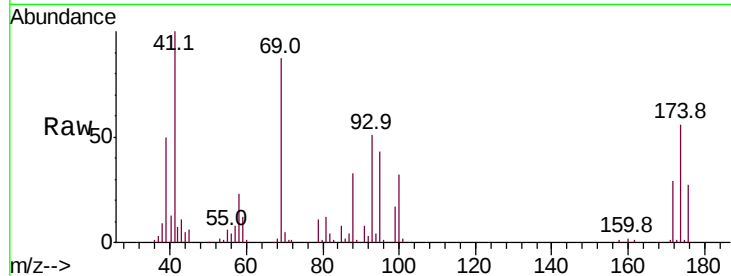
#49
1,4-Dioxane
Concen: 343.218 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	88	Resp	25411
Ion Ratio	Lower	Upper	
88	100		
43	28.5	23.7	35.5
58	68.7	55.6	83.4

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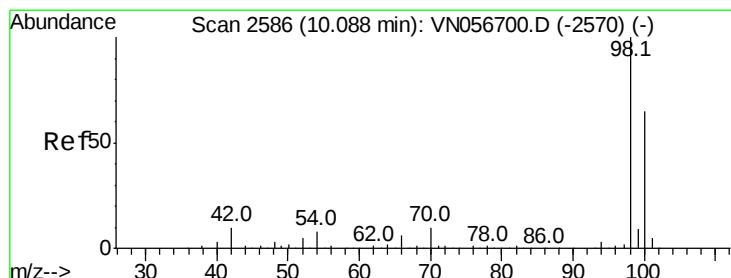
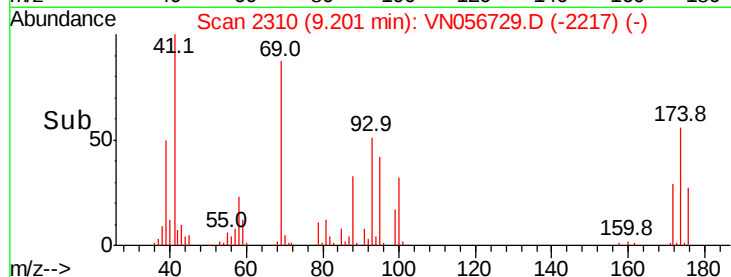
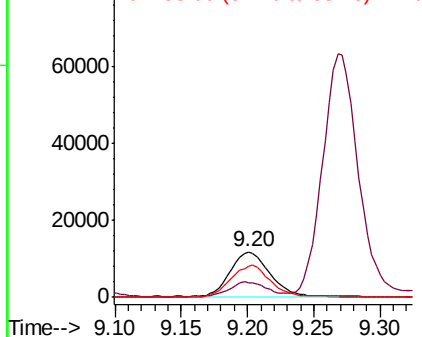


Abundance

Ion 88.00 (87.70 to 88.70): VN0

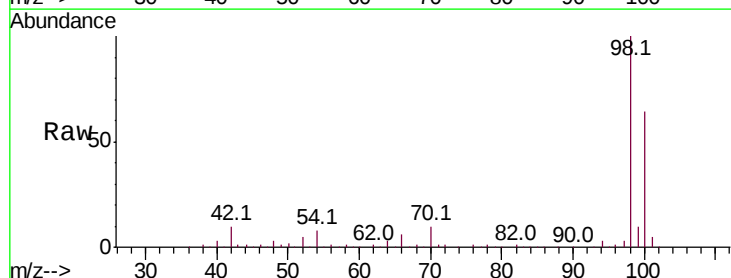
Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50
Toluene-d8
Concen: 49.689 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

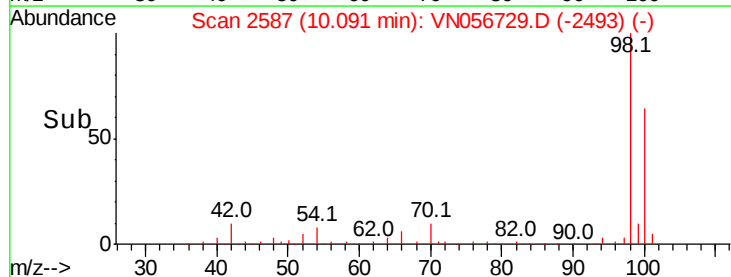
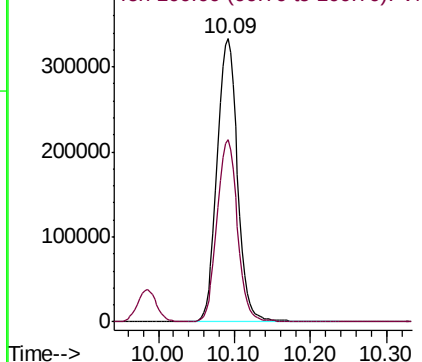
Tgt Ion	98	Resp	621484
Ion Ratio	Lower	Upper	
98	100		
100	64.6	52.0	78.0

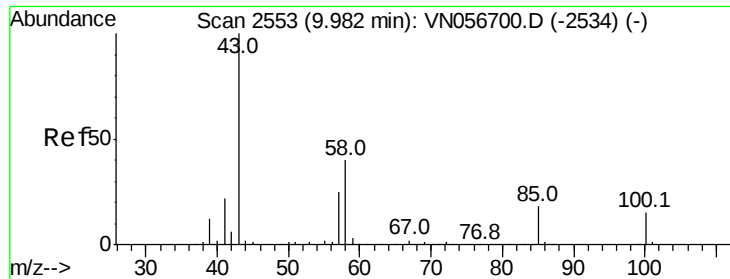


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 93.246 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 43 Resp: 450600

Ion Ratio Lower Upper

43 100

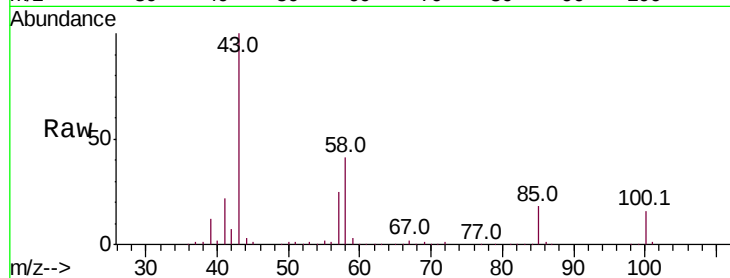
58 40.1 32.0 48.0

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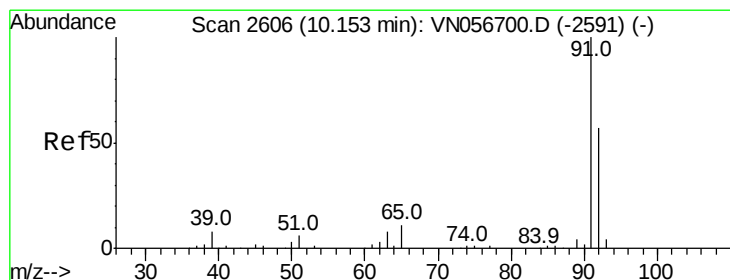
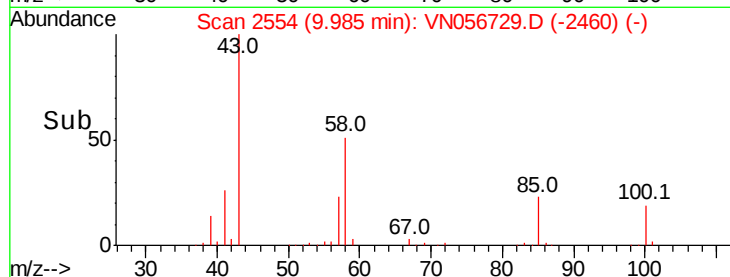
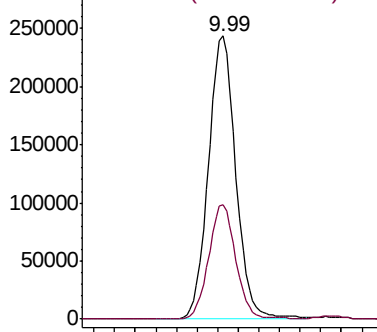
MMDadoda

7/17/2019 1:31:49 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.163 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056729.D

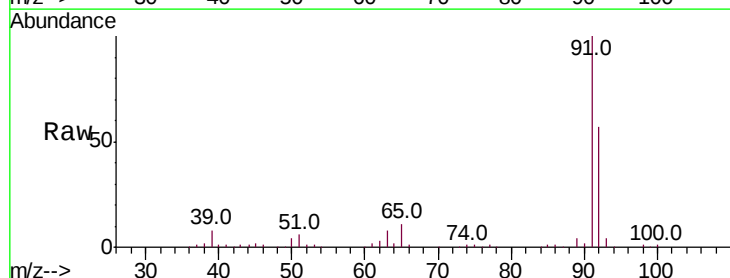
Acq: 15 Jul 2019 22:38

Tgt Ion: 92 Resp: 167909

Ion Ratio Lower Upper

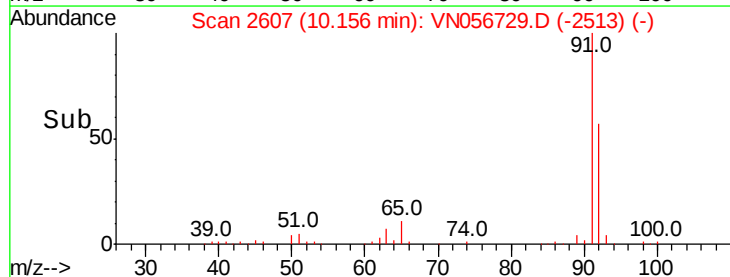
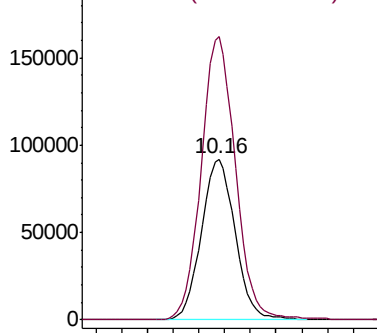
92 100

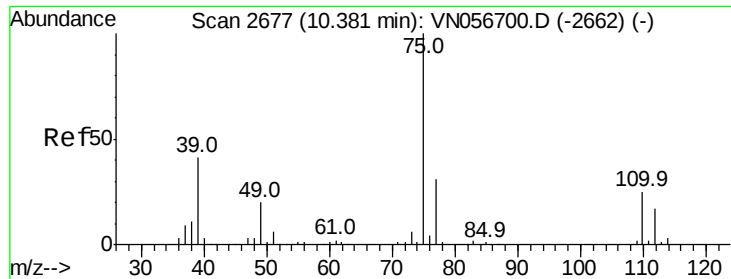
91 178.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





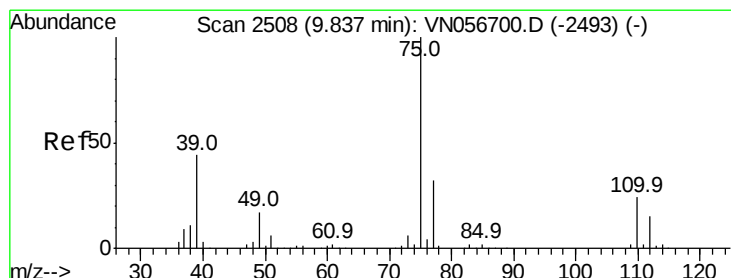
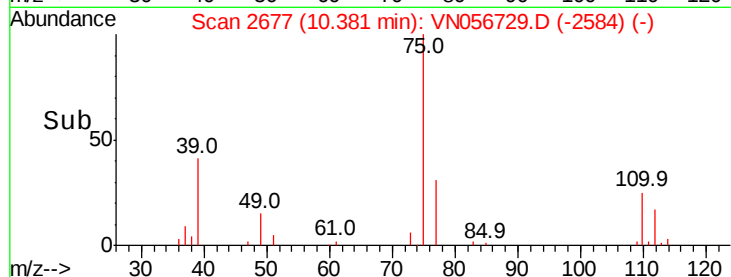
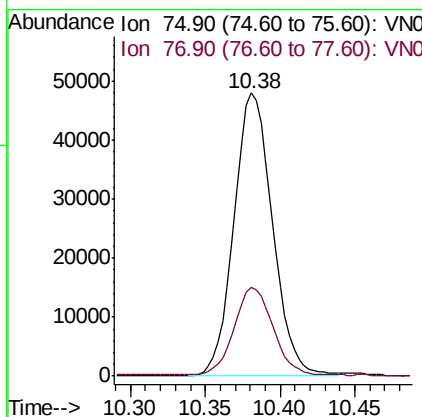
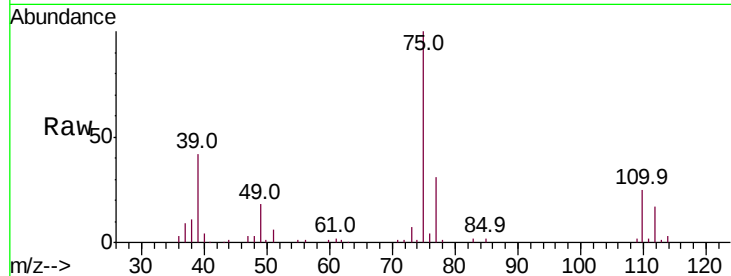
#53
t-1,3-Dichloropropene
Concen: 17.921 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion: 75 Resp: 86318
Ion Ratio Lower Upper
75 100
77 30.8 25.0 37.6

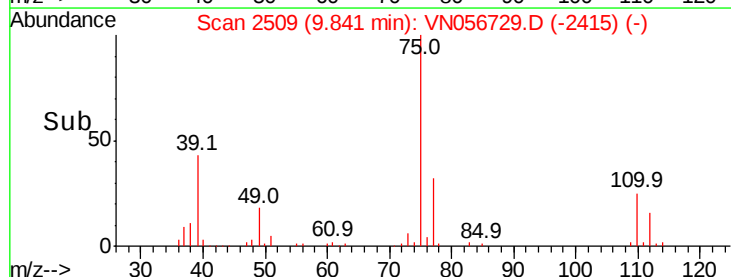
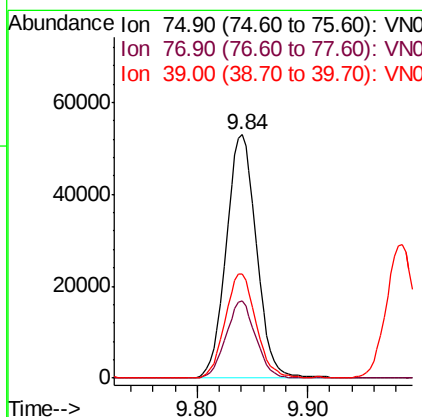
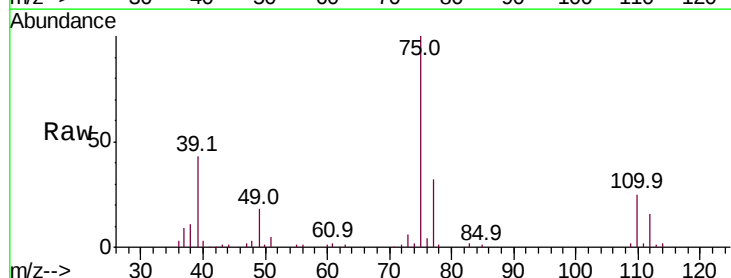
Manual Integrations
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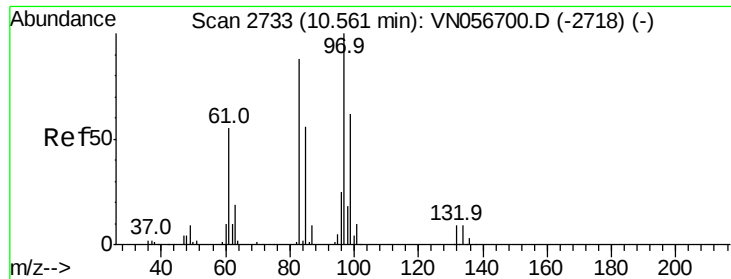
MMDadoda
7/17/2019 1:31:49 AM



#54
cis-1,3-Dichloropropene
Concen: 18.050 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 75 Resp: 100892
Ion Ratio Lower Upper
75 100
77 31.9 26.0 39.0
39 42.7 35.1 52.7





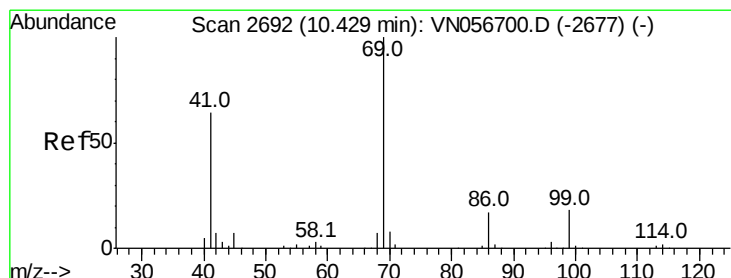
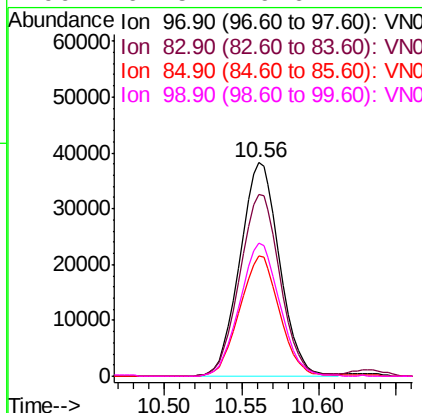
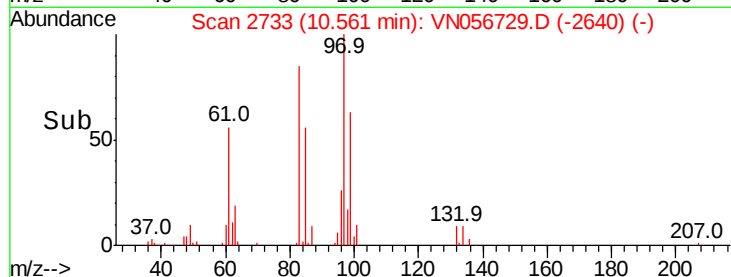
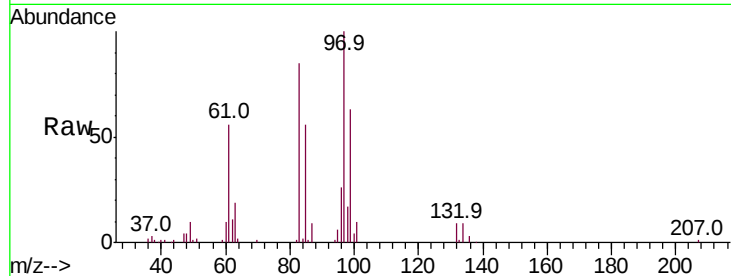
#55
 1,1,2-Trichloroethane
 Concen: 18.587 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	85.3	70.3	105.5
85	56.4	44.8	67.2
99	62.5	49.6	74.4

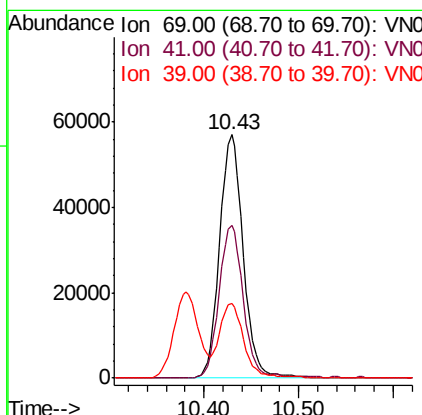
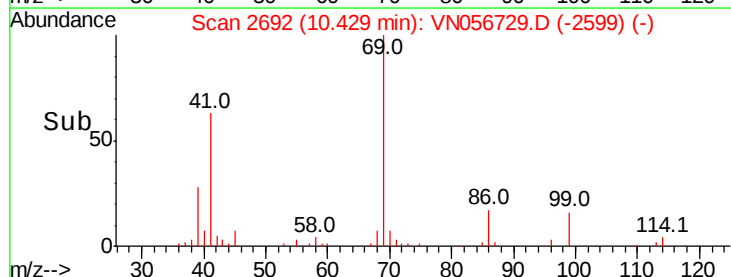
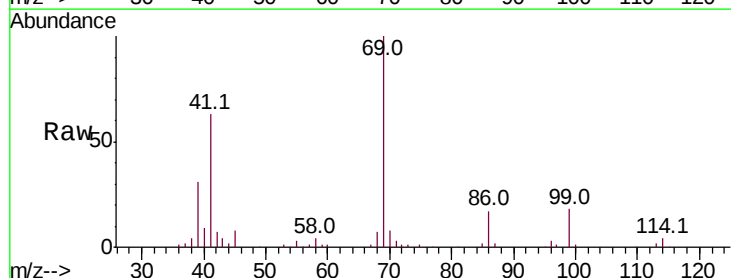
Manual Integrations
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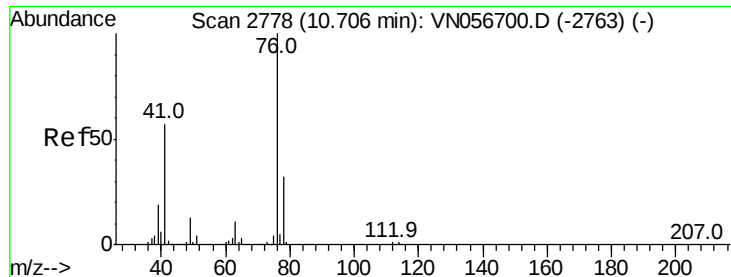
MMDadoda
 7/17/2019 1:31:49 AM



#56
 Ethyl methacrylate
 Concen: 18.792 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.0	51.0	76.4
39	30.3	24.6	36.8





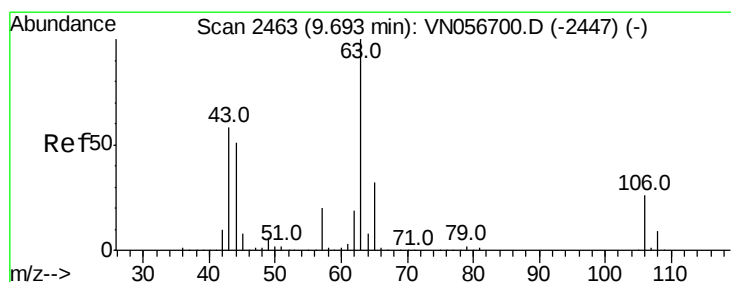
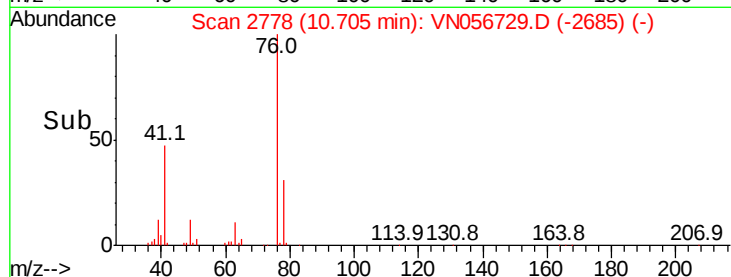
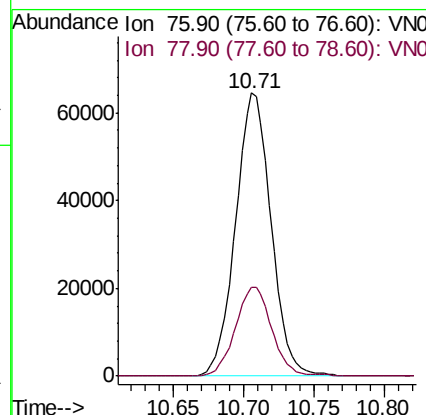
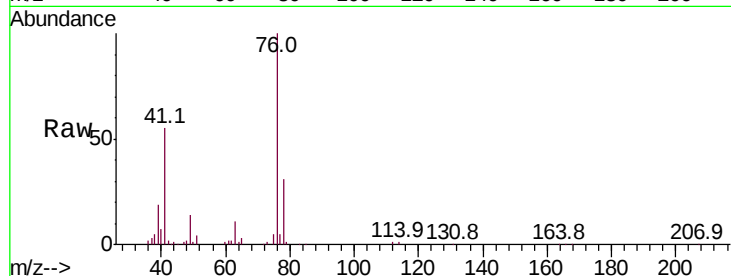
#57
 1,3-Dichloropropane
 Concen: 18.977 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion: 76 Resp: 113909
 Ion Ratio Lower Upper
 76 100
 78 32.2 26.0 39.0

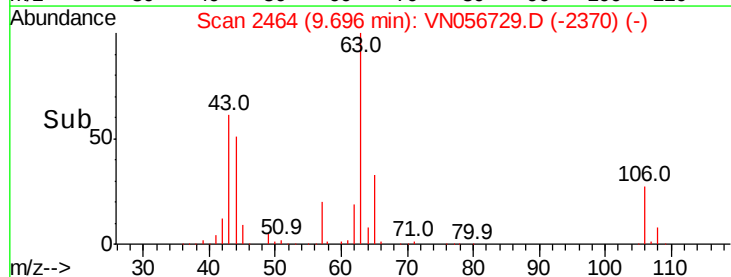
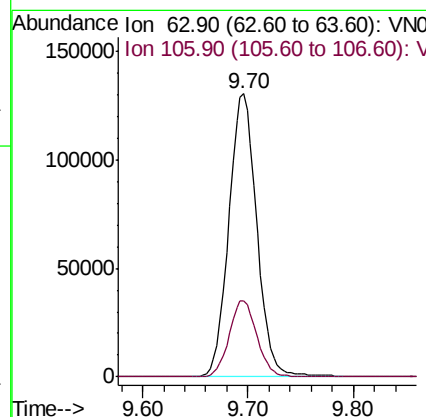
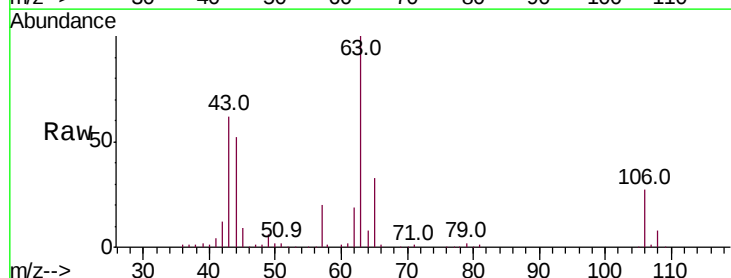
Manual Integrations
 APPROVED

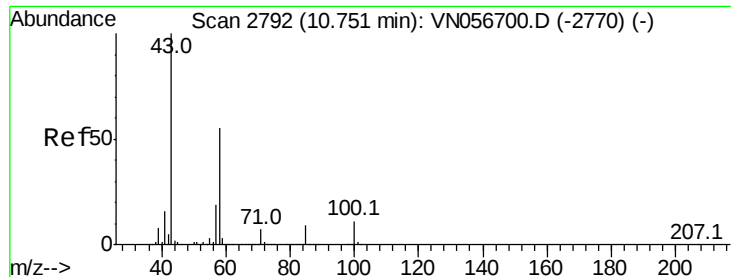
MMDadoda
 7/17/2019 1:31:49 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.192 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion: 63 Resp: 239521
 Ion Ratio Lower Upper
 63 100
 106 26.8 21.2 31.8





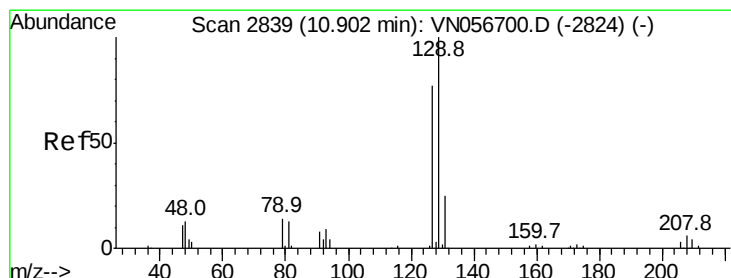
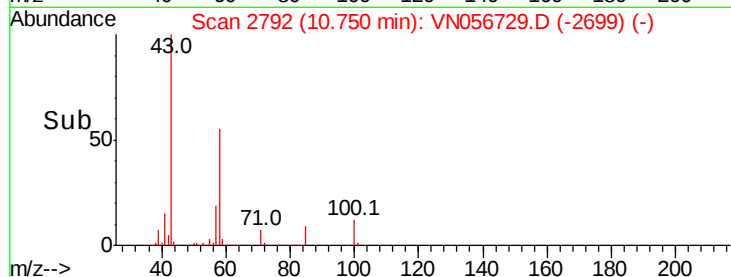
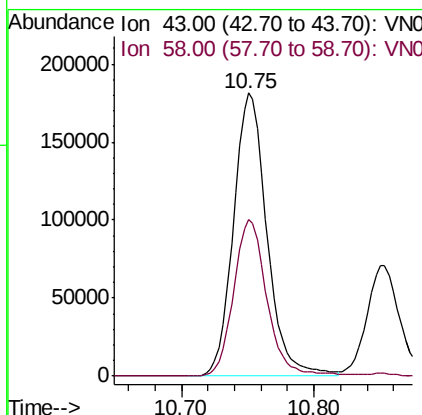
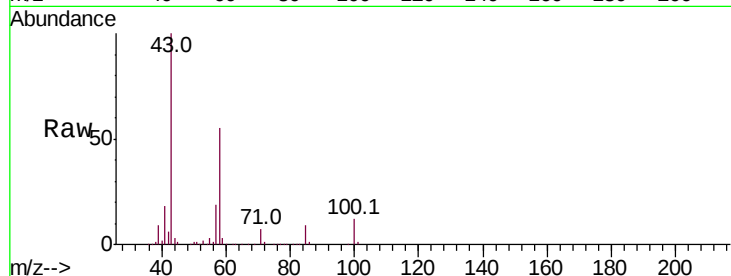
#59
2-Hexanone
Concen: 91.212 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion: 43 Resp: 316271
Ion Ratio Lower Upper
43 100
58 55.4 27.9 83.6

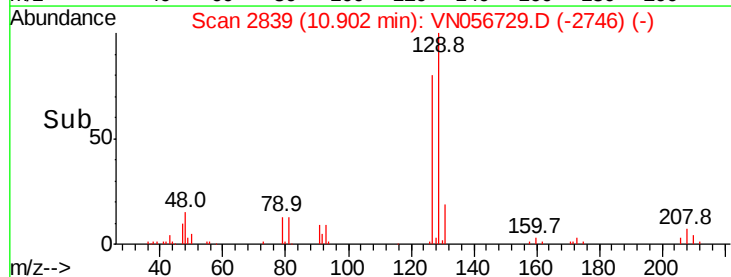
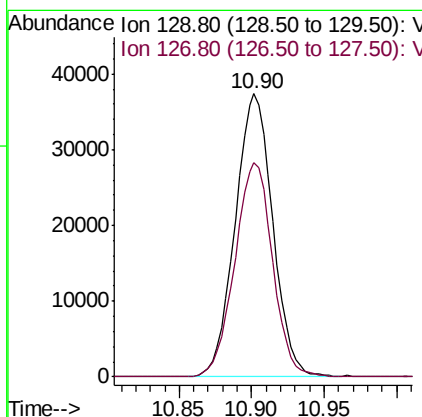
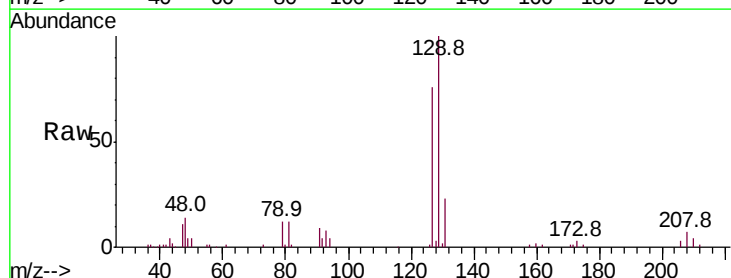
Manual Integrations
APPROVED

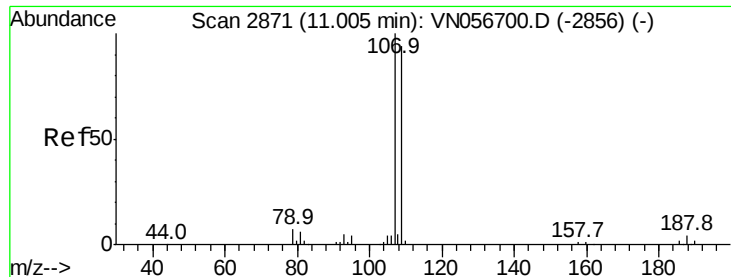
MMDadoda
7/17/2019 1:31:49 AM



#60
Dibromochloromethane
Concen: 18.640 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 129 Resp: 67374
Ion Ratio Lower Upper
129 100
127 75.8 38.2 114.6





#61

1,2-Dibromoethane

Concen: 19.314 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion:107 Resp: 70544

Ion Ratio Lower Upper

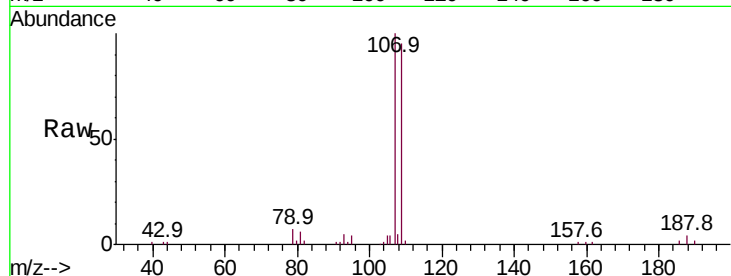
107 100

109 93.3 76.2 114.4

Manual Integrations
APPROVED

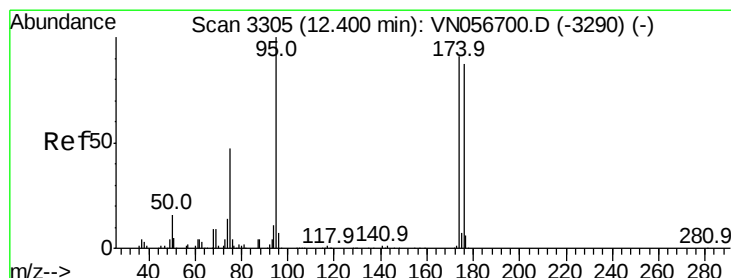
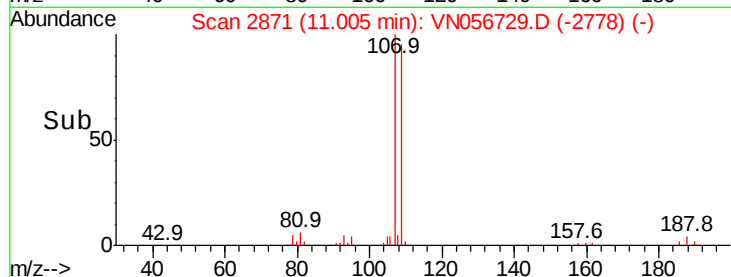
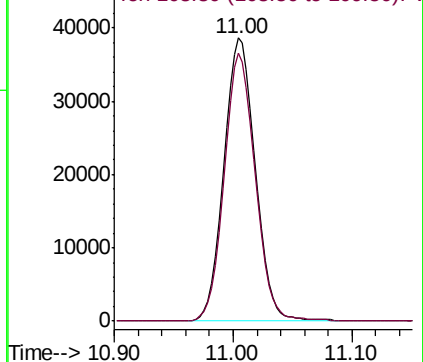
MMDadoda

7/17/2019 1:31:49 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.523 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

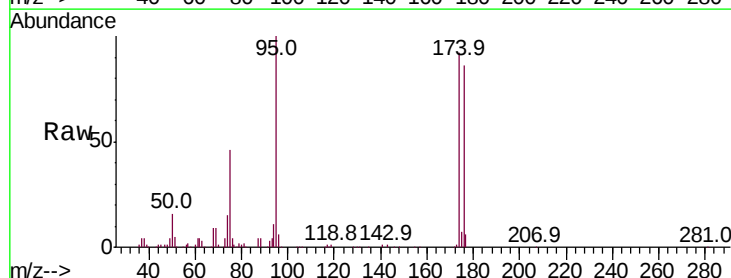
Tgt Ion: 95 Resp: 208885

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.0

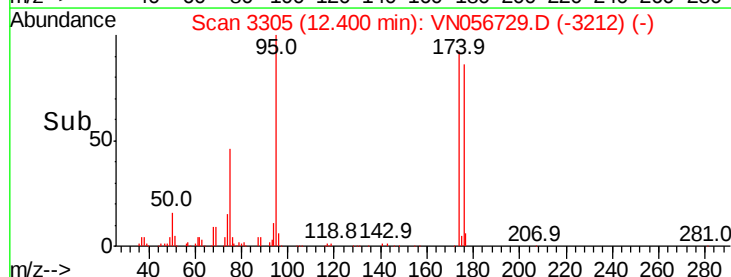
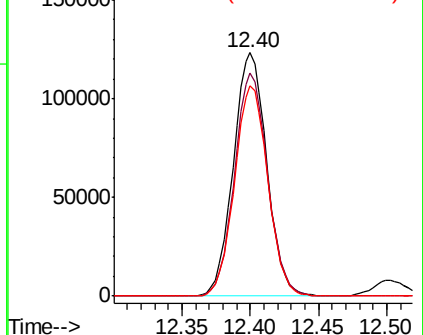
176 86.6 0.0 173.2

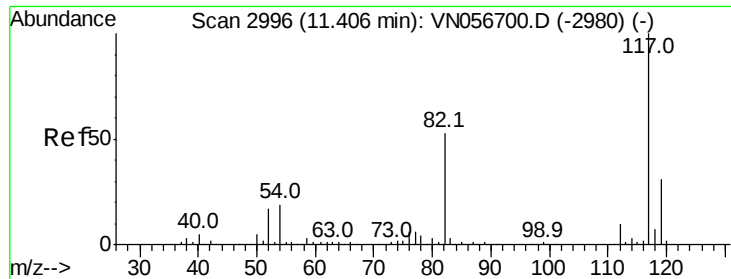


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





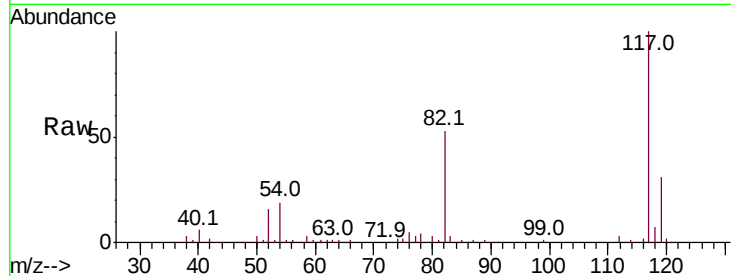
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	42.2	63.2
119	31.2	25.2	37.8

Manual Integrations
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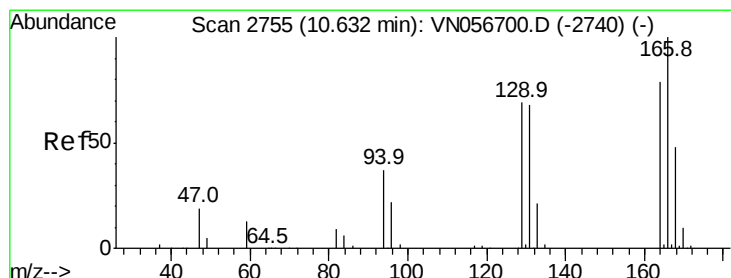
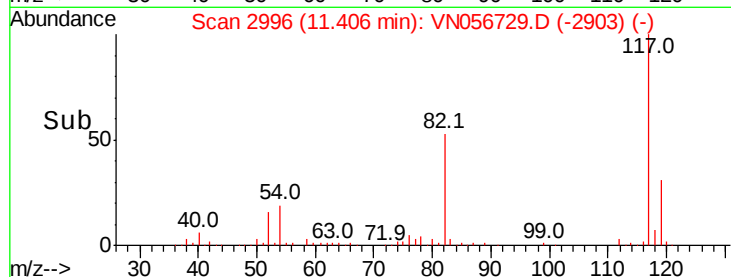
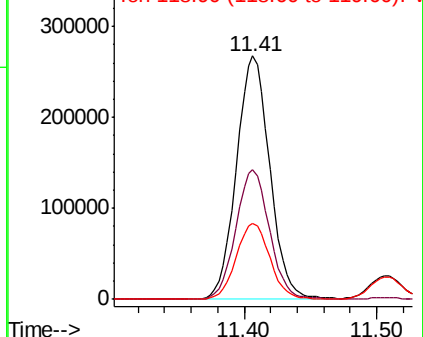


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 18.453 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.2	101.4	152.2
129	89.6	69.6	104.4
131	85.0	69.0	103.4

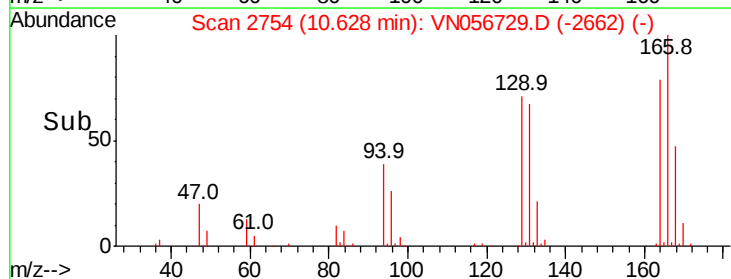
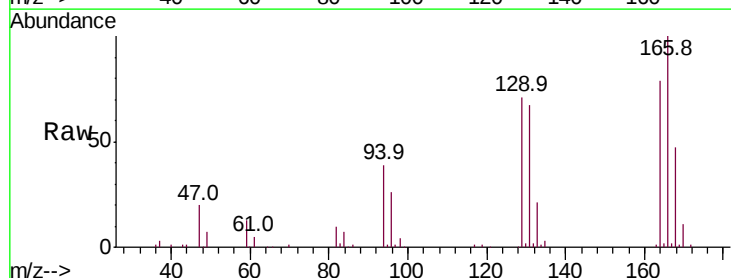
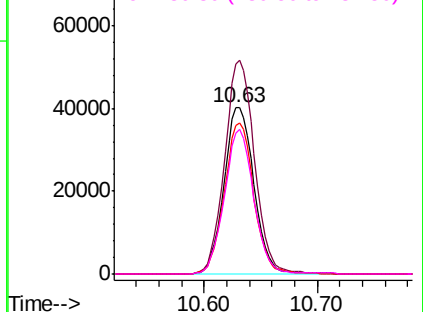
Abundance

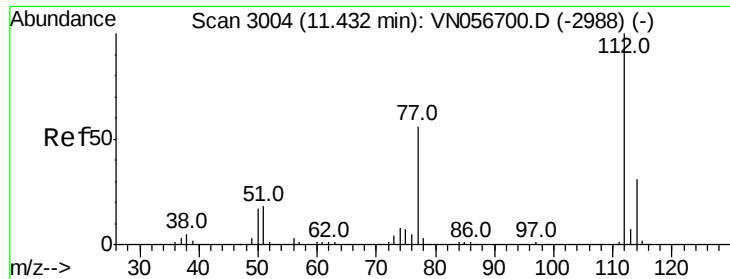
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





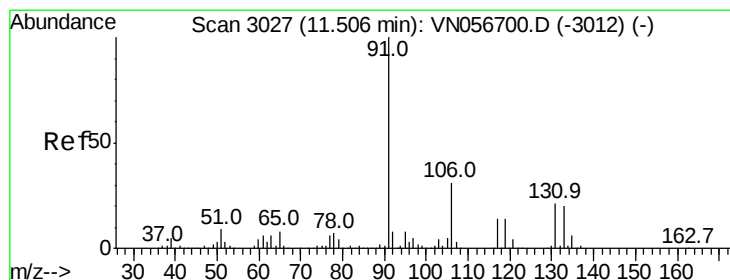
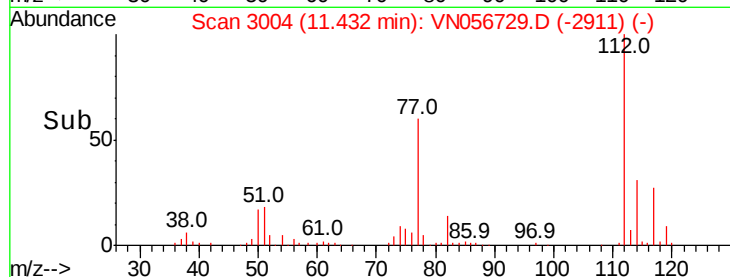
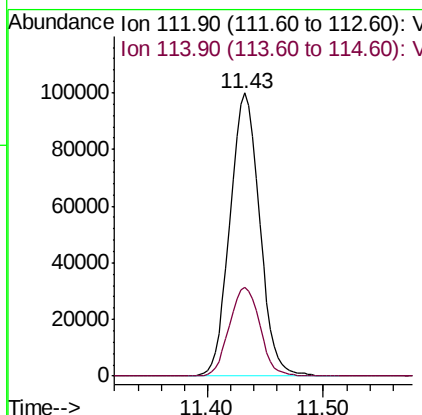
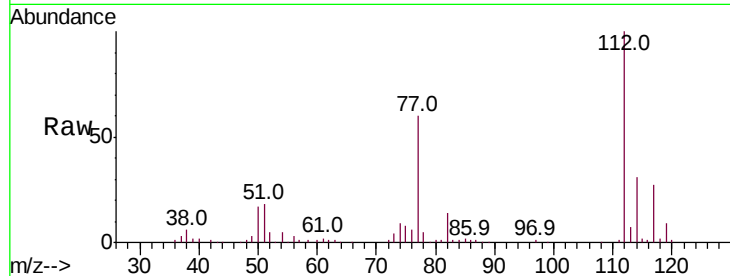
#65
Chlorobenzene
Concen: 18.464 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion:112 Resp: 176502
Ion Ratio Lower Upper
112 100
114 31.3 25.2 37.8

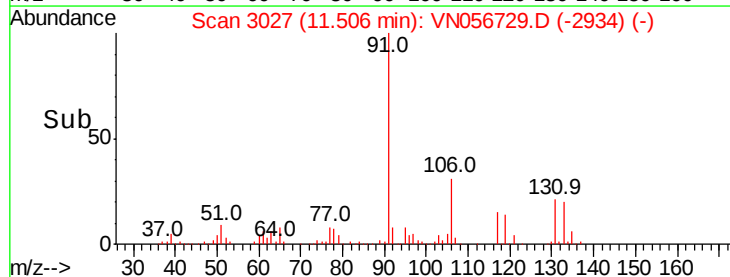
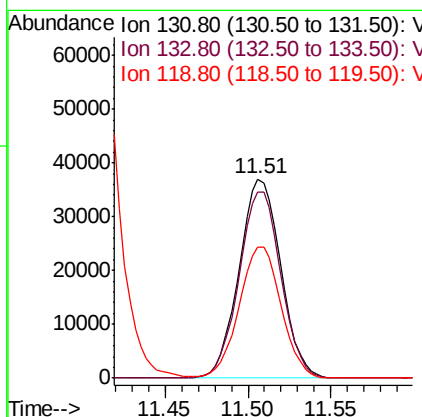
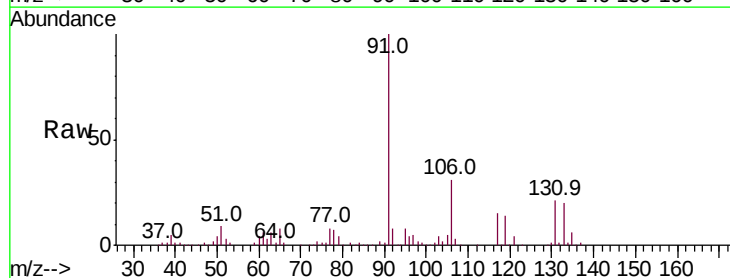
Manual Integrations
APPROVED

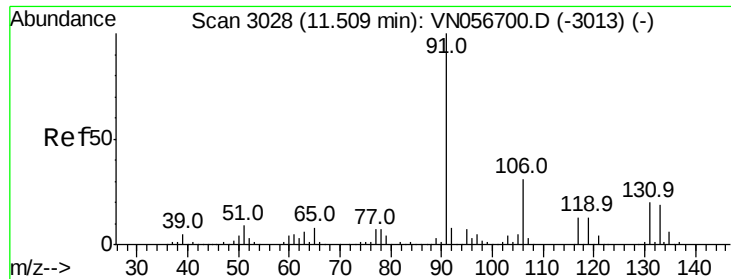
MMDadoda
7/17/2019 1:31:49 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.410 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion:131 Resp: 64795
Ion Ratio Lower Upper
131 100
133 94.1 46.9 140.7
119 66.5 32.8 98.3





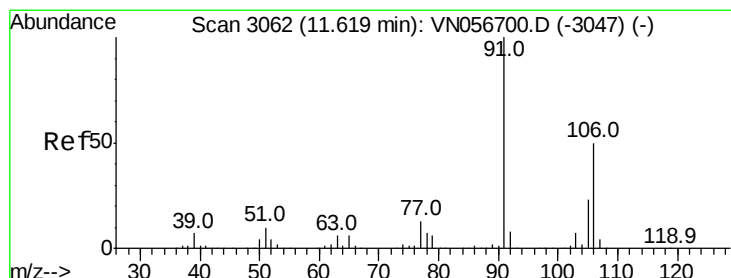
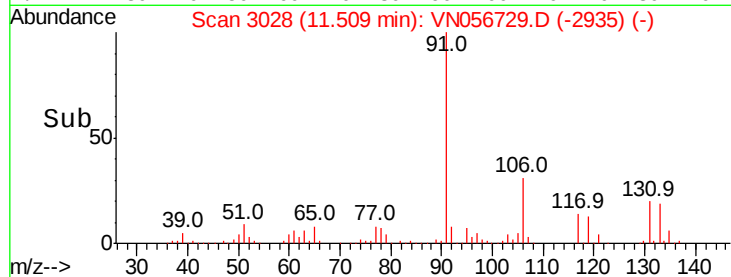
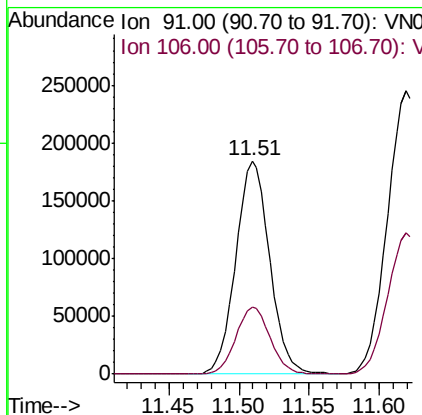
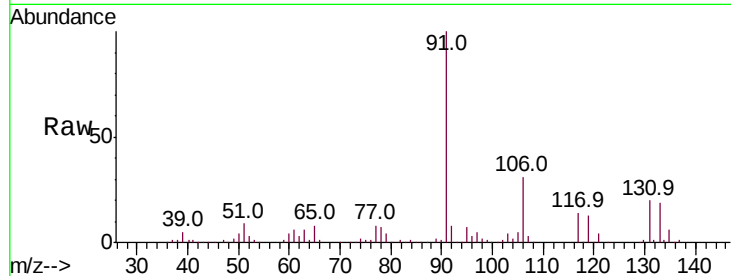
#67
Ethyl Benzene
Concen: 18.505 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampled :
VN0715WBS02

Tot Ion: 91 Resp: 310886
Ion Ratio Lower Upper
91 100
106 31.2 24.8 37.2

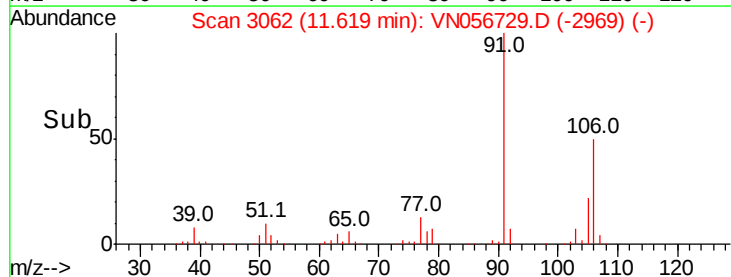
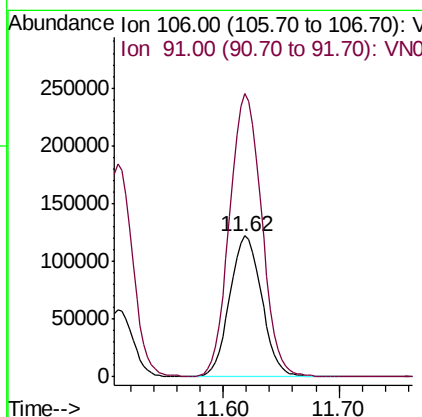
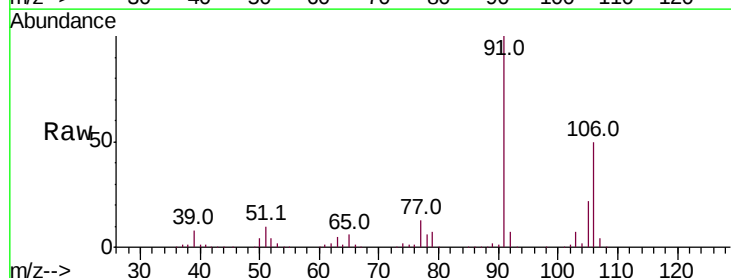
Manual Integrations
APPROVED

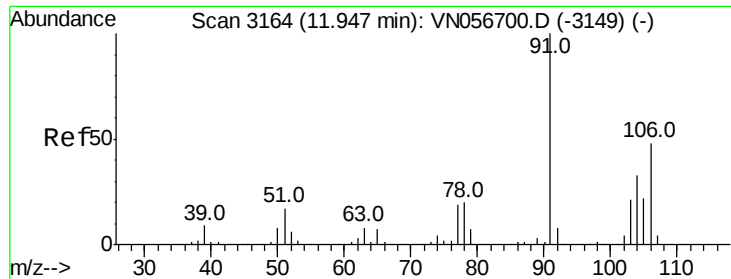
MMDadoda
7/17/2019 1:31:49 AM



#68
m/p-Xylenes
Concen: 37.360 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion: 106 Resp: 234563
Ion Ratio Lower Upper
106 100
91 201.0 160.5 240.7





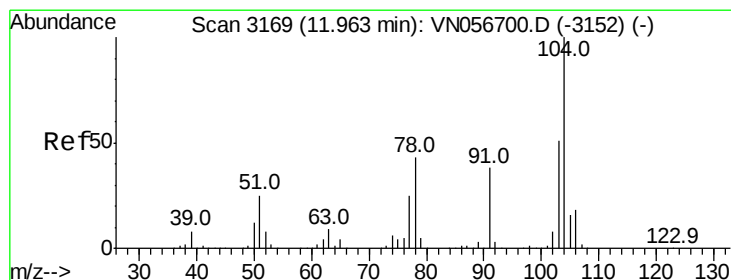
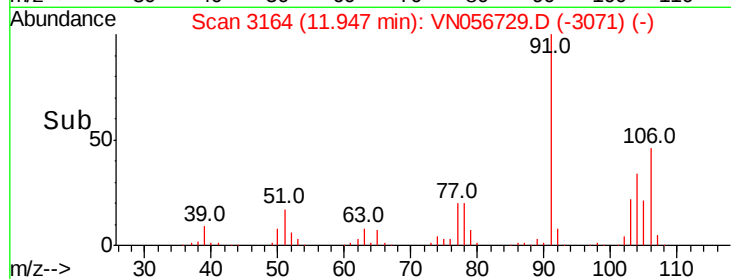
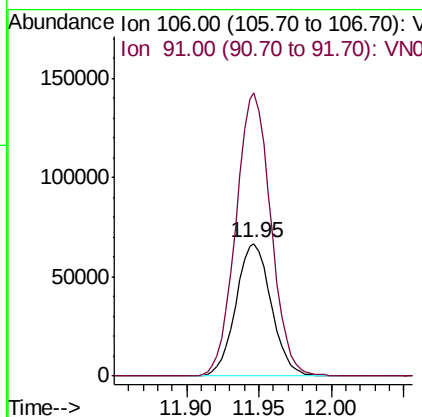
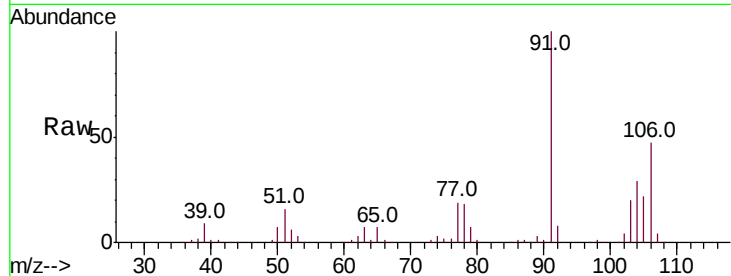
#69
o-Xylene
Concen: 18.322 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion:106 Resp: 113093
Ion Ratio Lower Upper
106 100
91 211.6 105.6 316.8

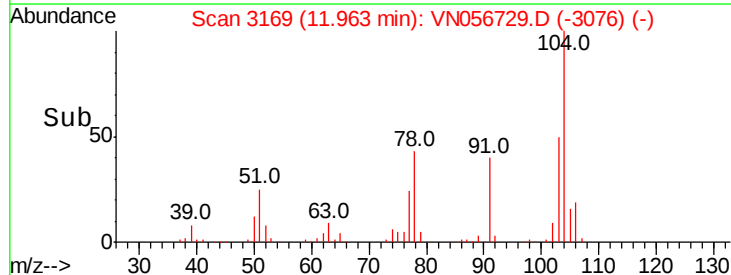
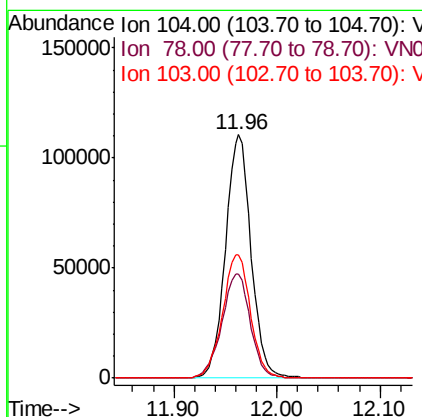
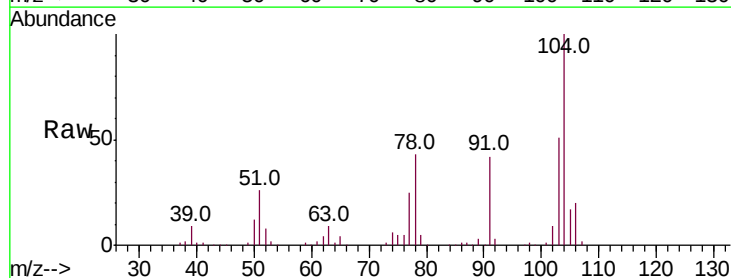
Manual Integrations
APPROVED

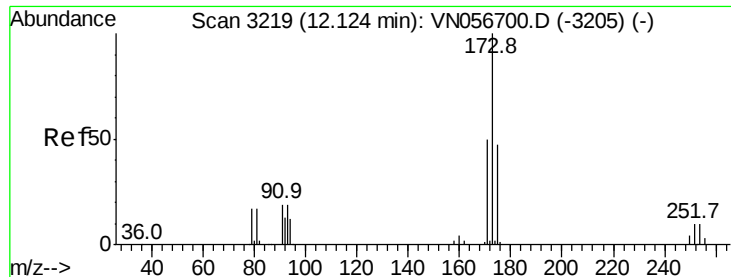
MMDadoda
7/17/2019 1:31:49 AM



#70
Styrene
Concen: 19.128 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion:104 Resp: 190877
Ion Ratio Lower Upper
104 100
78 47.7 38.6 57.8
103 55.3 44.2 66.4





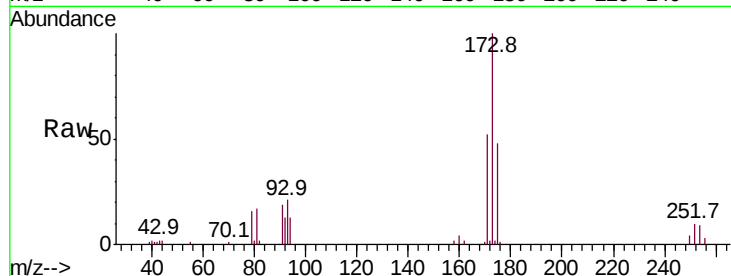
#71
Bromoform
Concen: 18.310 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

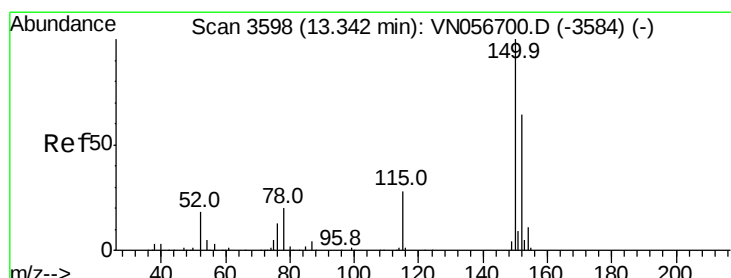
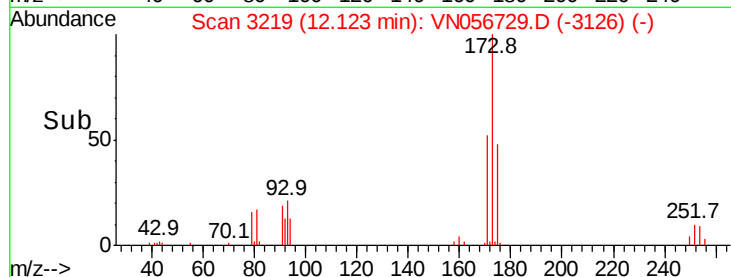
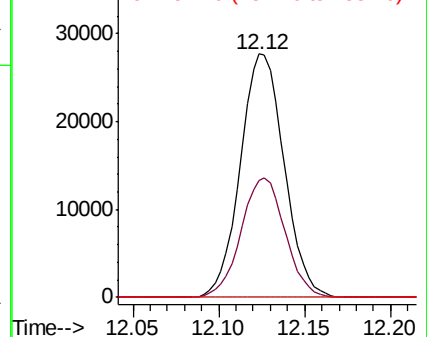
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	23.8	71.4
254	0.0	0.0	0.0

Manual Integrations
APPROVED

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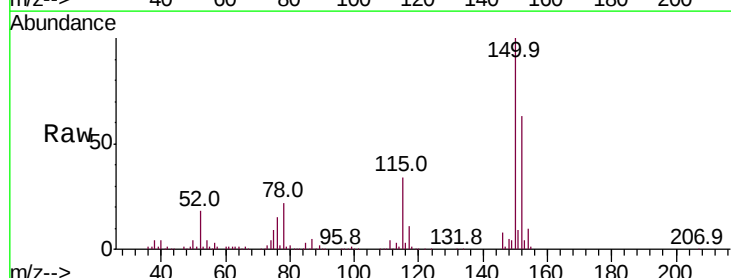


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

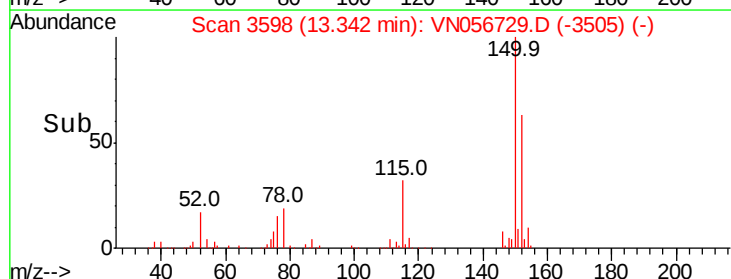
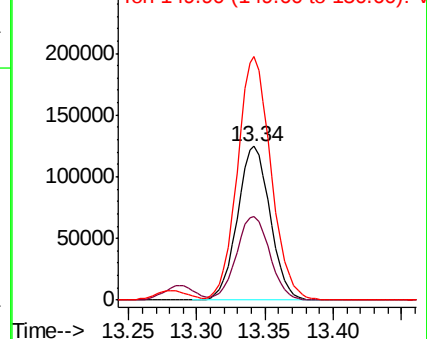


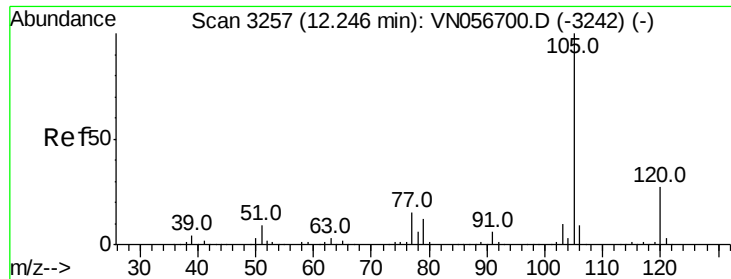
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	28.2	84.7
150	162.5	0.0	345.8



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: 18.092 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion:105 Resp: 301956

Ion Ratio Lower Upper

105 100

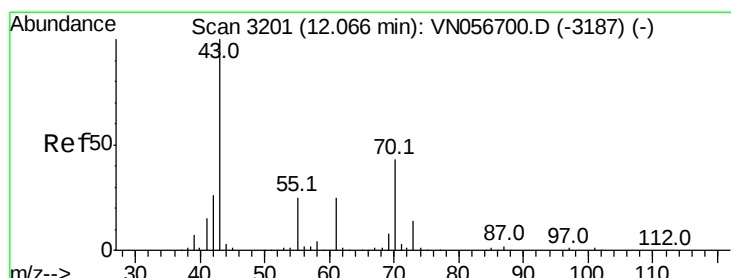
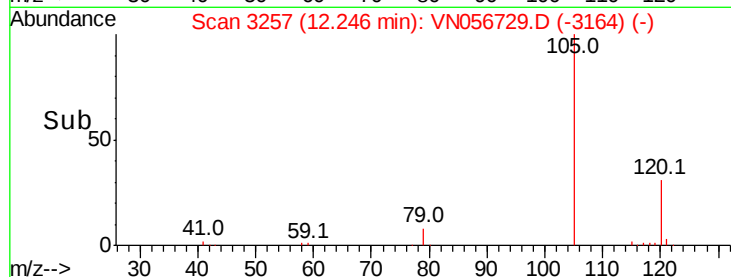
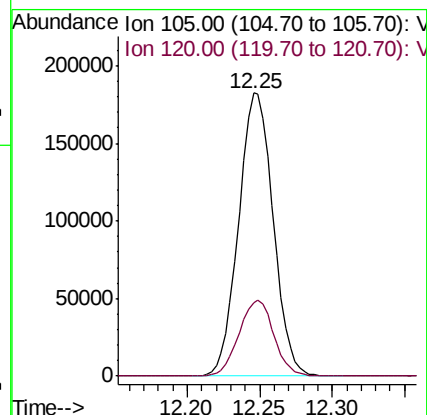
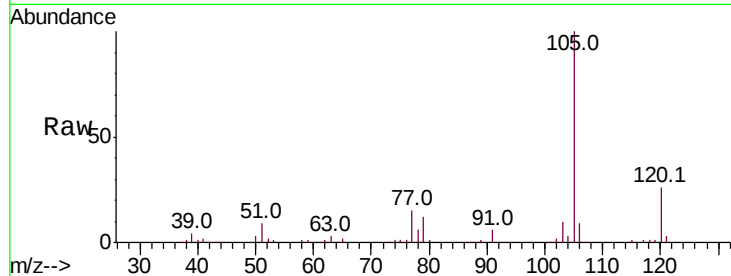
120 27.0 13.4 40.2

Manual Integrations

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#74

N-ethyl acetate

Concen: 16.852 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion: 43 Resp: 104750

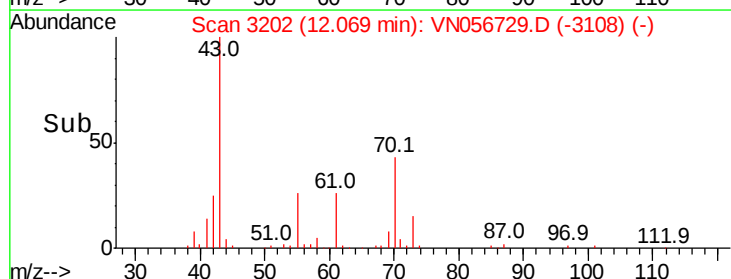
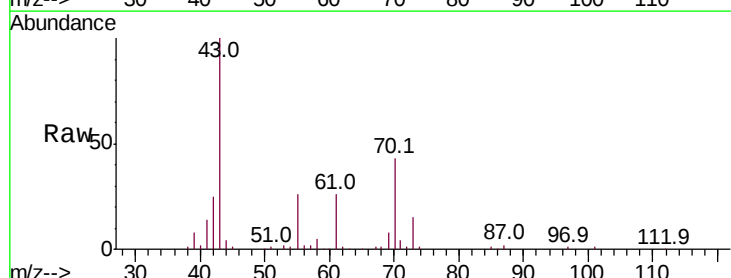
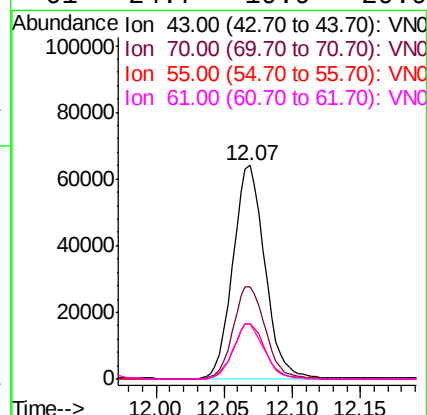
Ion Ratio Lower Upper

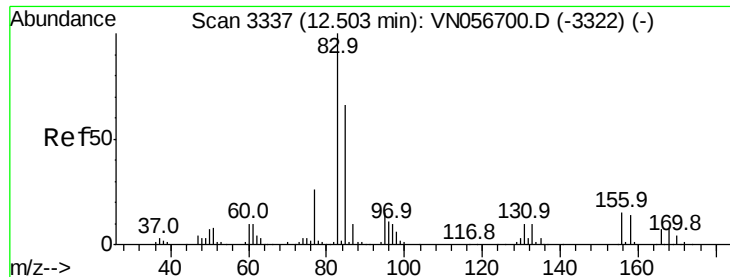
43 100

70 43.3 34.5 51.7

55 25.7 20.2 30.2

61 24.7 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 18.774 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

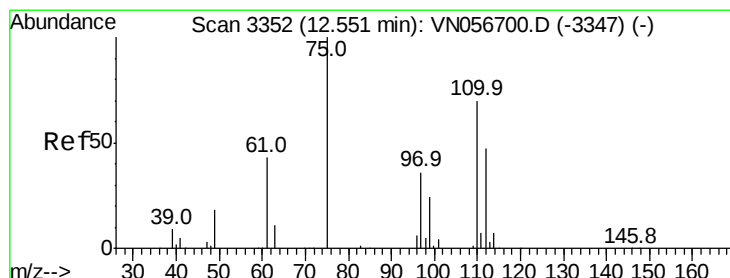
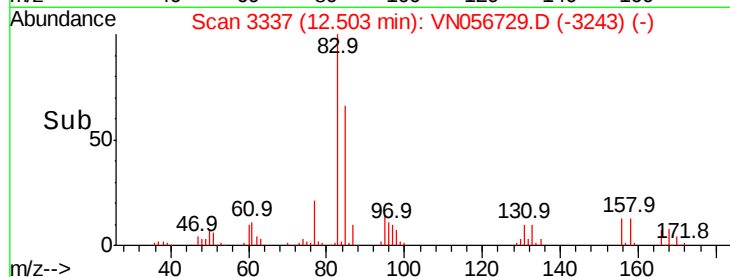
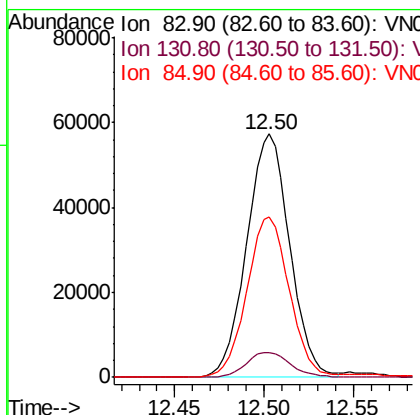
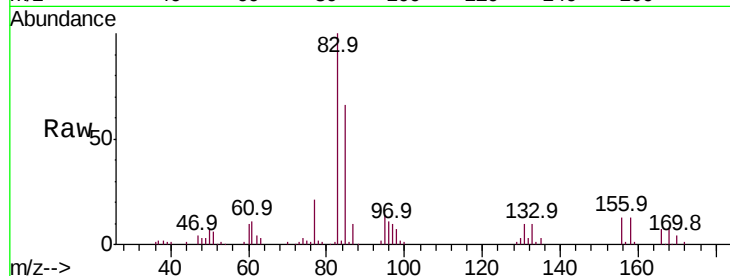
ClientSampleId :

VN0715WBS02

Tot Ion:	83	Resp:	96600
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.8
85	65.1	32.6	97.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.555 ug/l m

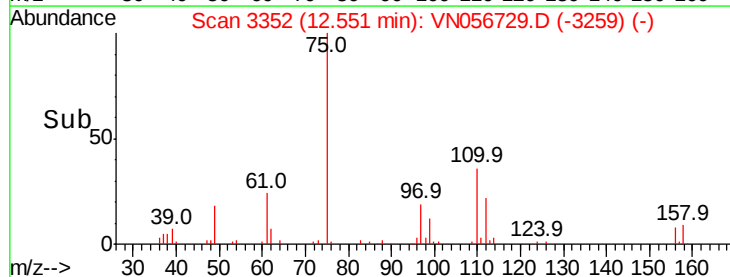
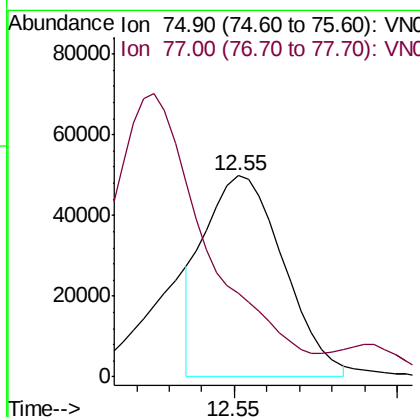
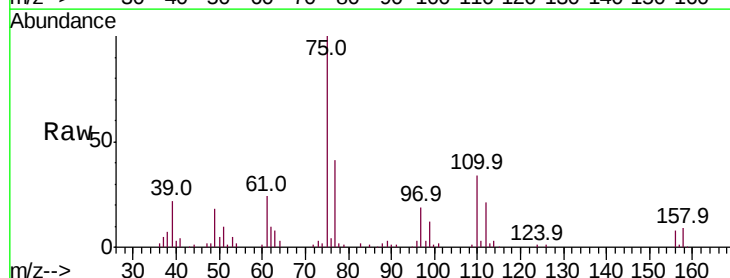
RT: 12.55 min Scan# 3352

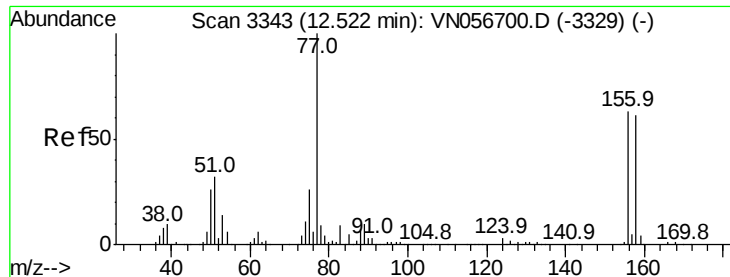
Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion:	75	Resp:	84004
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.158 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion:156 Resp: 79266

Ion Ratio Lower Upper

156 100

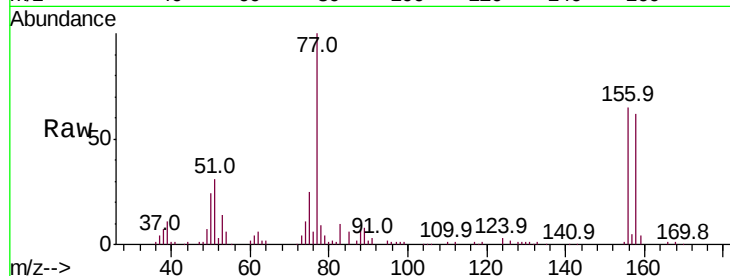
77 187.4 97.2 291.6

158 95.4 48.9 146.8

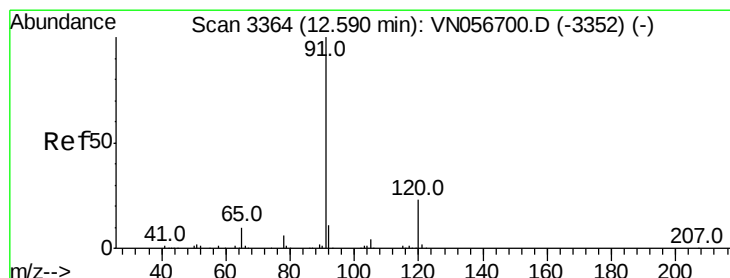
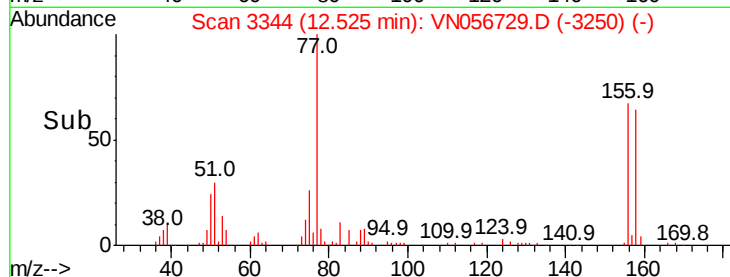
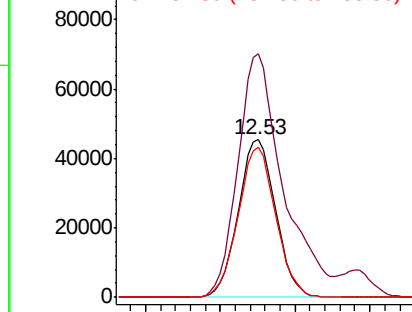
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Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 17.769 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056729.D

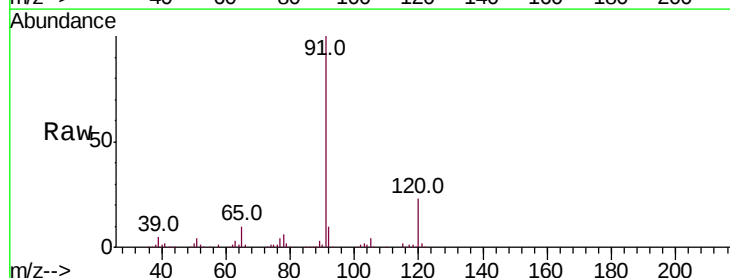
Acq: 15 Jul 2019 22:38

Tgt Ion: 91 Resp: 329229

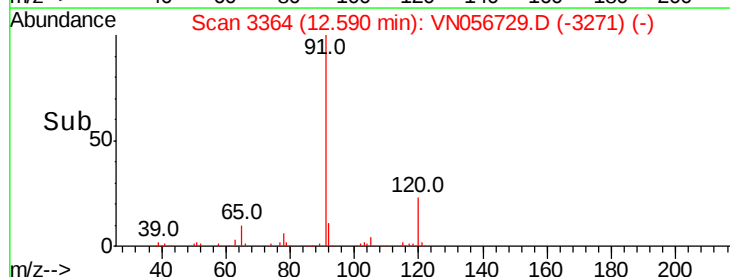
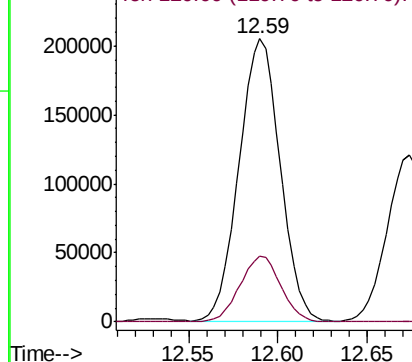
Ion Ratio Lower Upper

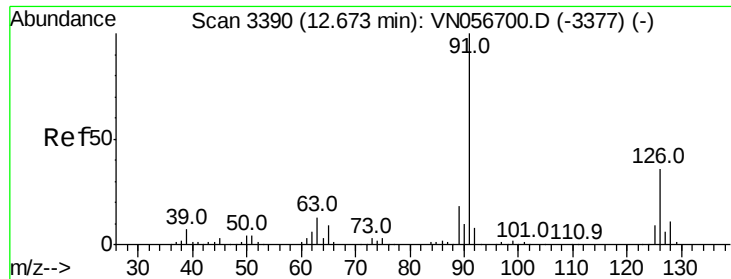
91 100

120 23.2 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.511 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 91 Resp: 200116

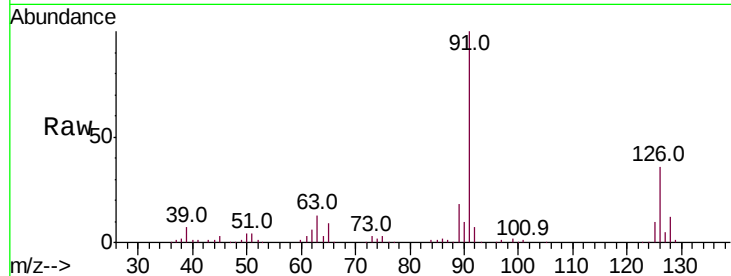
Ion Ratio Lower Upper

91 100

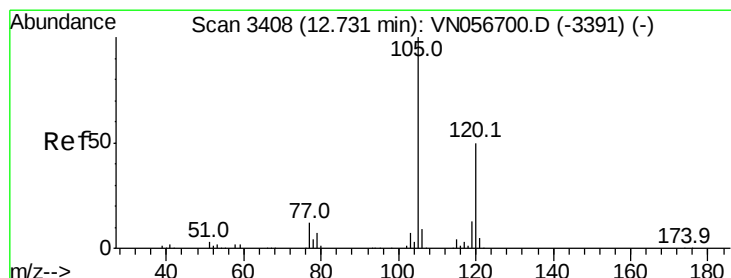
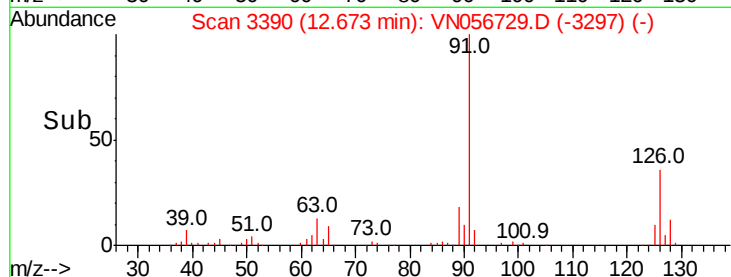
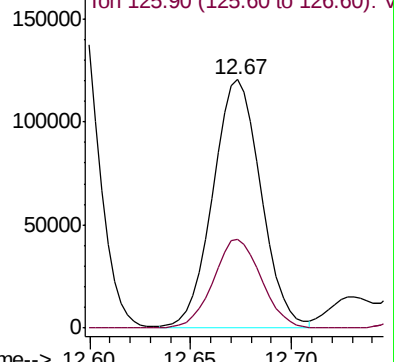
126 35.9 17.9 53.7

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Abundance Ion 91.00 (90.70 to 91.70): VN056700.D (-3377) (-)



#80

1,3,5-Trimethylbenzene

Concen: 17.916 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN056729.D

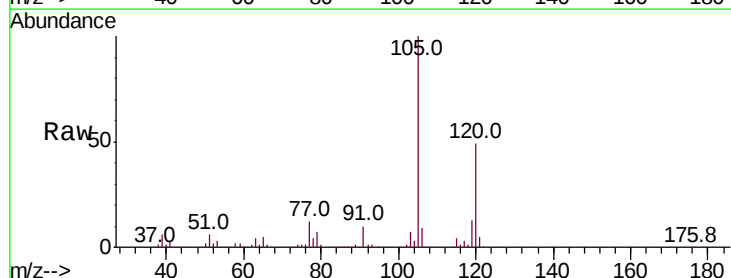
Acq: 15 Jul 2019 22:38

Tgt Ion: 105 Resp: 253435

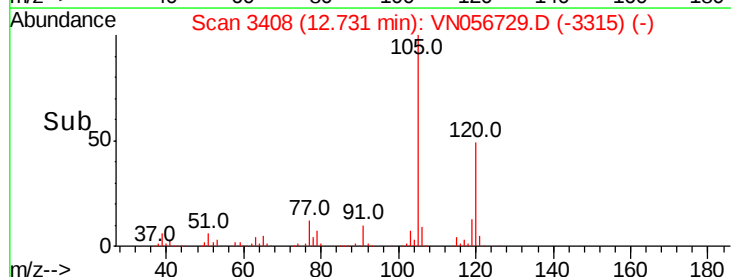
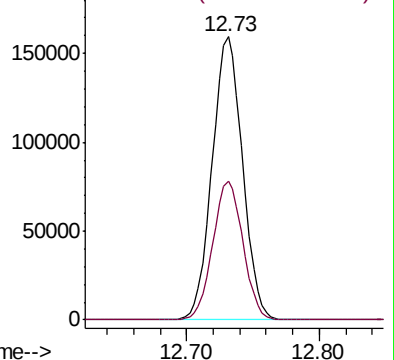
Ion Ratio Lower Upper

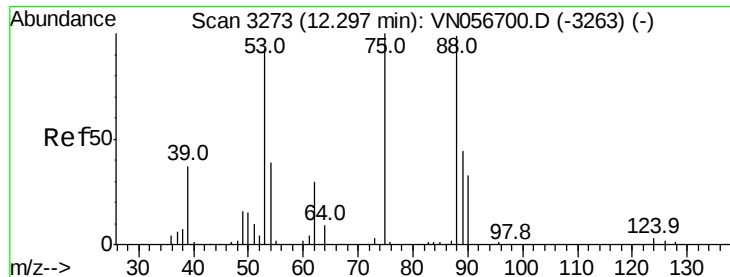
105 100

120 48.6 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056700.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 15.314 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion: 75 Resp: 22449

Ion Ratio Lower Upper

75 100

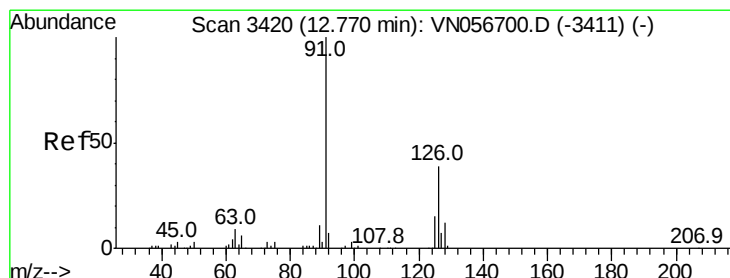
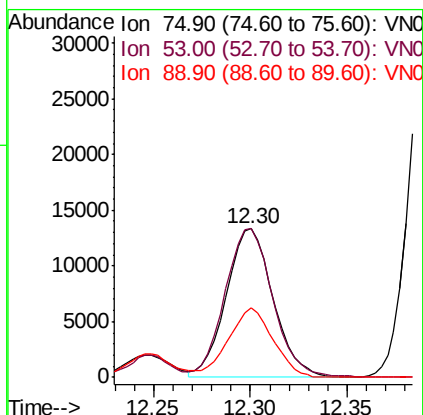
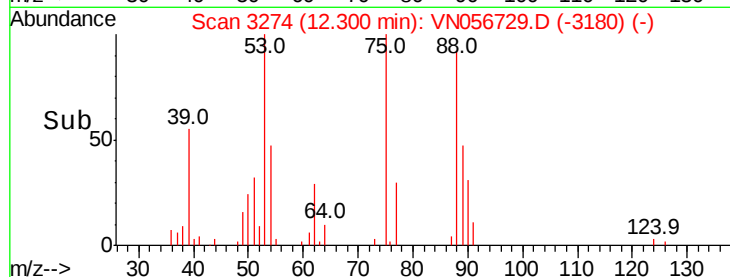
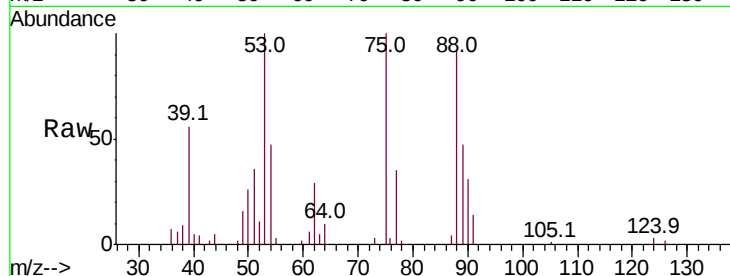
53 102.5 73.7 110.5

89 44.5 36.2 54.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 18.037 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN056729.D

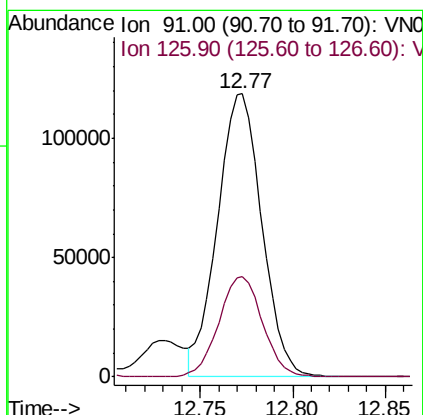
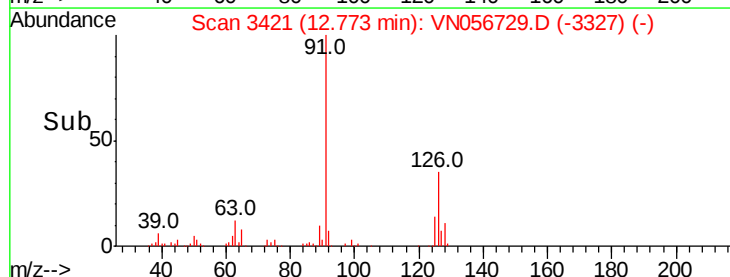
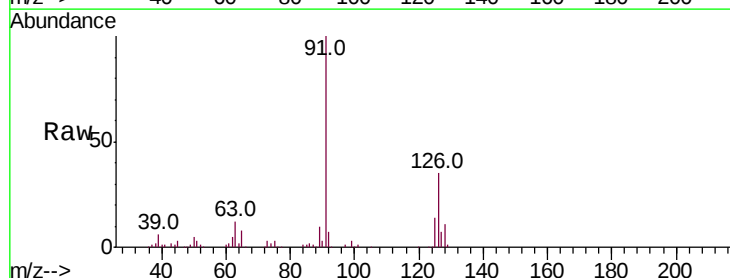
Acq: 15 Jul 2019 22:38

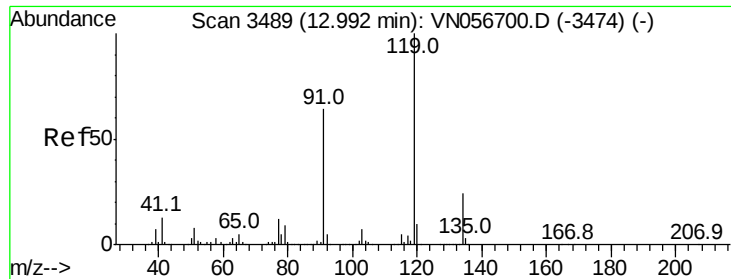
Tgt Ion: 91 Resp: 196132

Ion Ratio Lower Upper

91 100

126 35.1 17.6 52.8





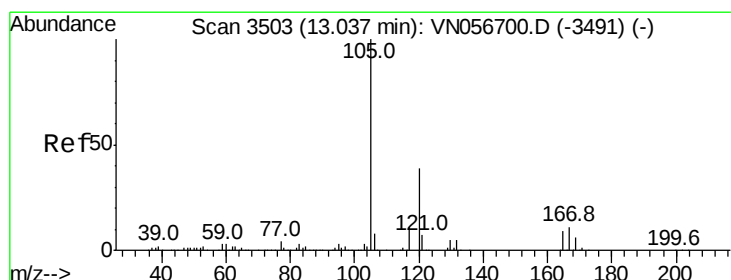
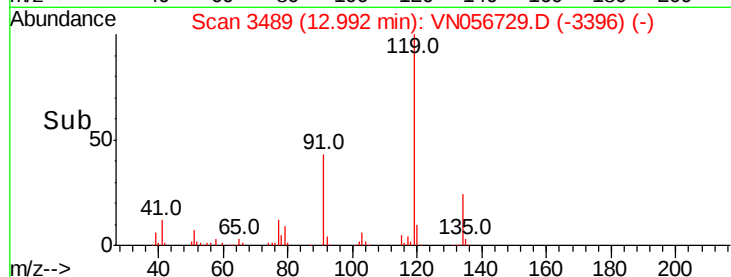
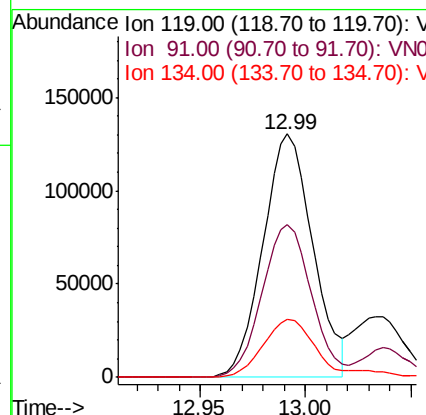
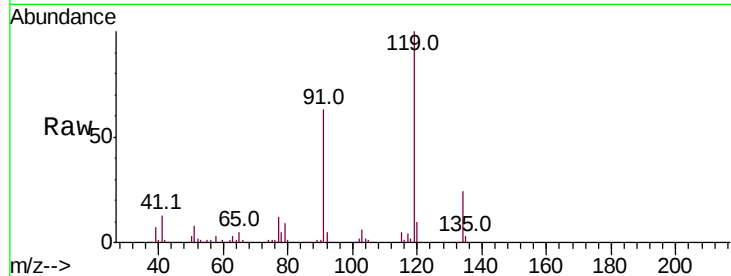
#83
 tert-Butylbenzene
 Concen: 18.603 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.2	31.8	95.4
134	24.3	13.0	38.9

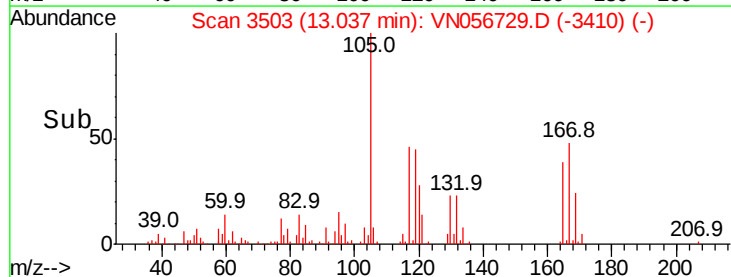
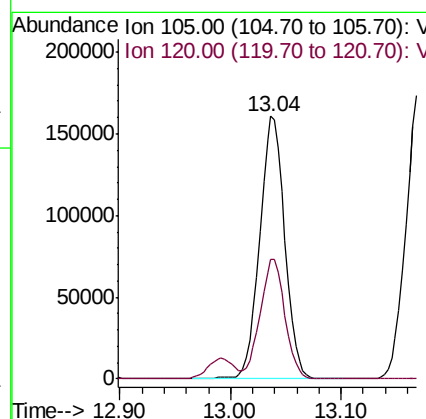
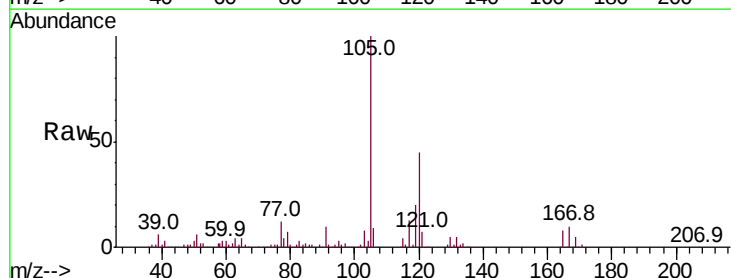
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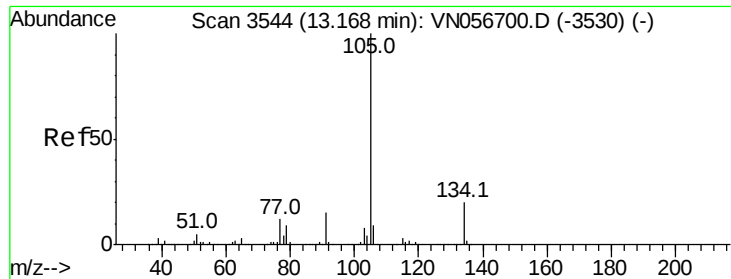
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#84
 1,2,4-Trimethylbenzene
 Concen: 18.259 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	22.9	68.8





#85

sec-Butylbenzene

Concen: 17.934 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

ClientSampleId :

VN0715WBS02

Tot Ion:105 Resp: 281883

Ion Ratio Lower Upper

105 100

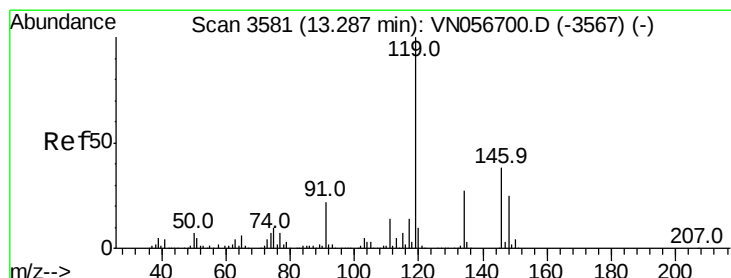
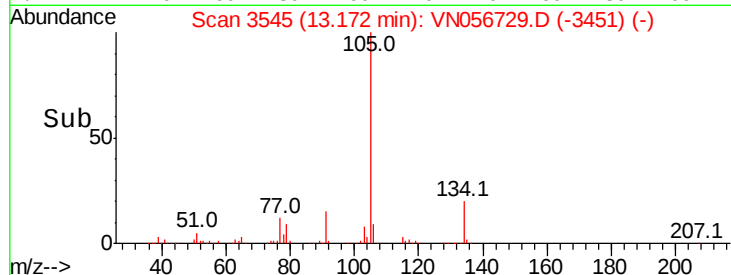
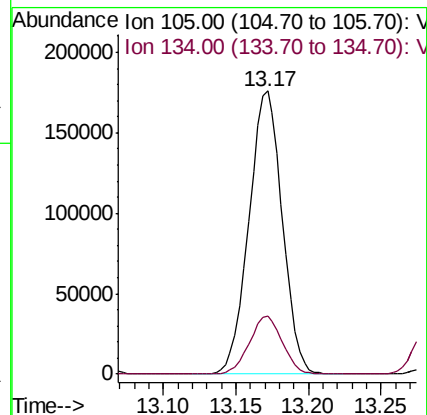
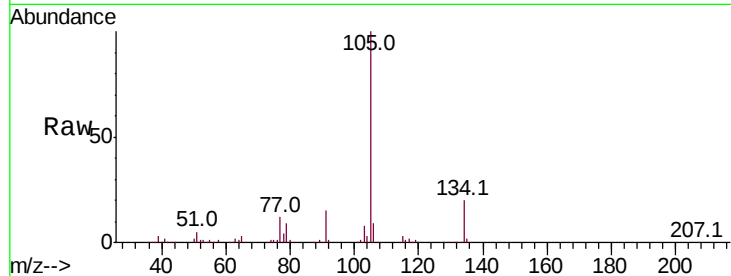
134 20.3 10.1 30.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 17.949 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

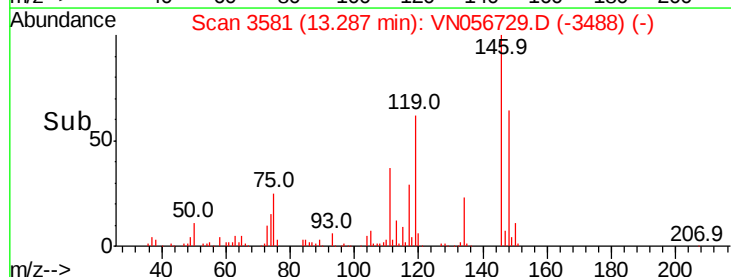
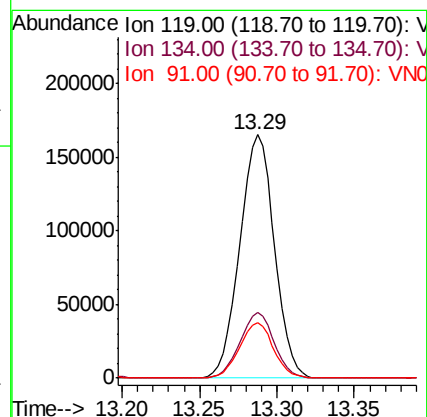
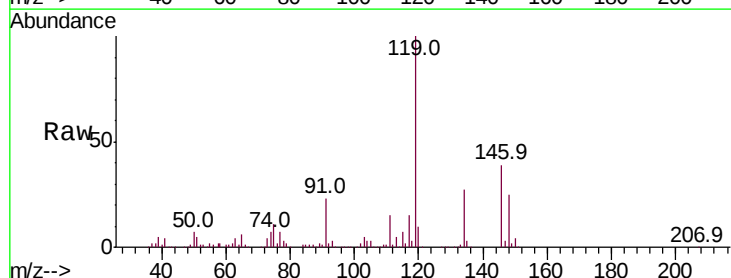
Tgt Ion:119 Resp: 255568

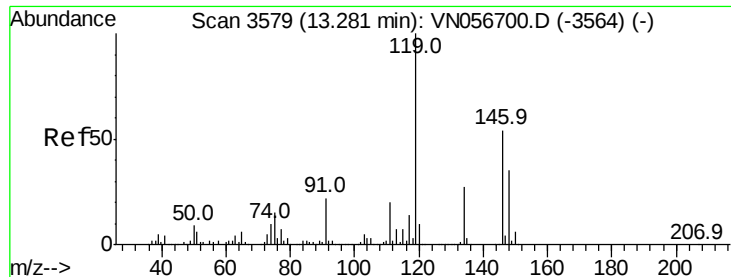
Ion Ratio Lower Upper

119 100

134 26.8 13.6 40.7

91 22.4 11.2 33.5





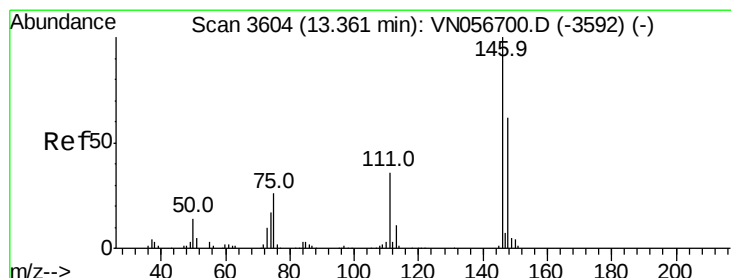
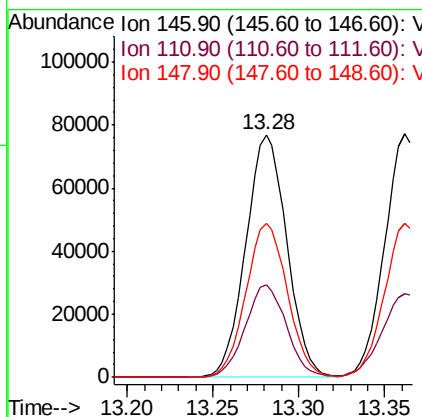
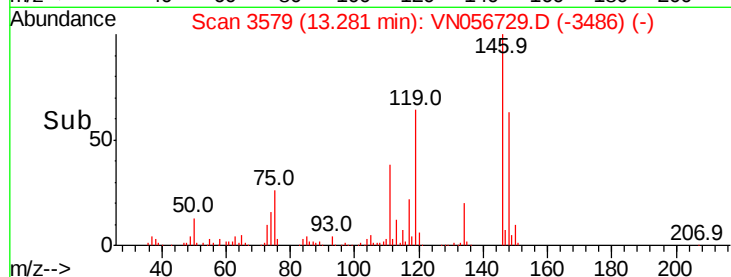
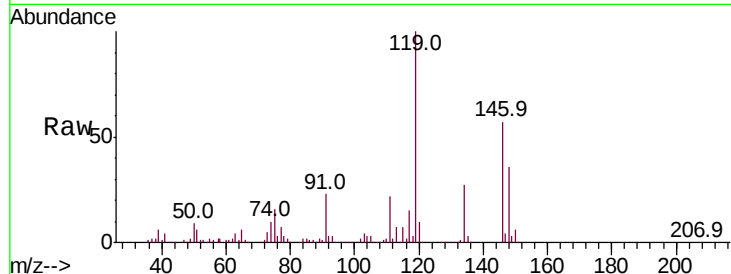
#87
 1,3-Dichlorobenzene
 Concen: 17.775 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.8	56.3
148	64.2	32.3	96.8

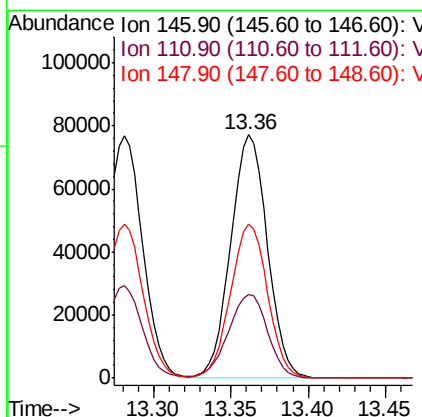
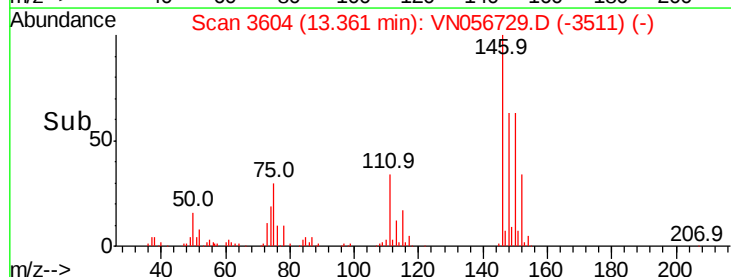
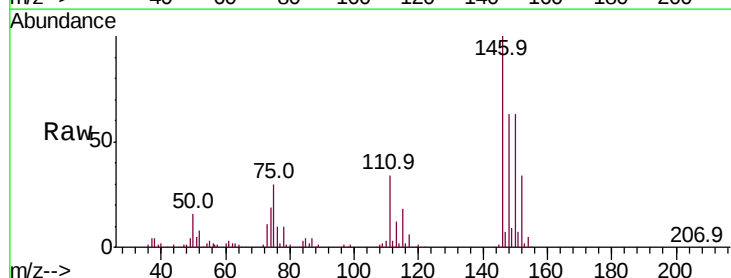
Manual Integrations
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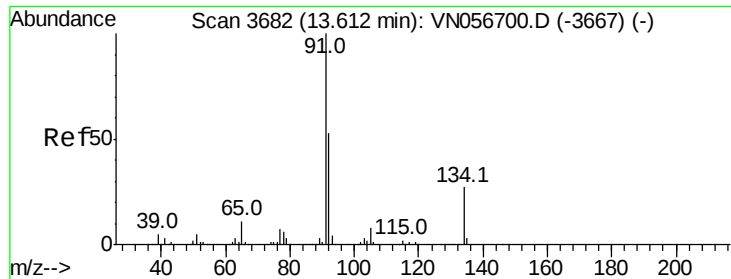
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#88
 1,4-Dichlorobenzene
 Concen: 18.246 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.0	18.6	55.8
148	63.8	31.9	95.7





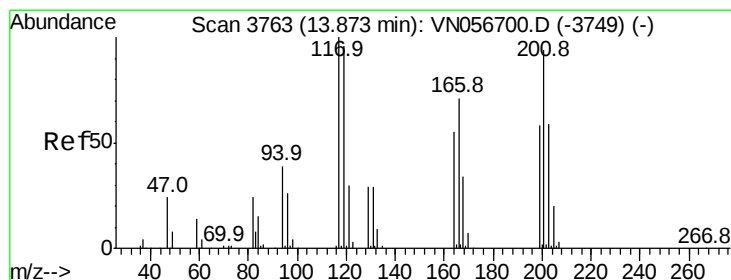
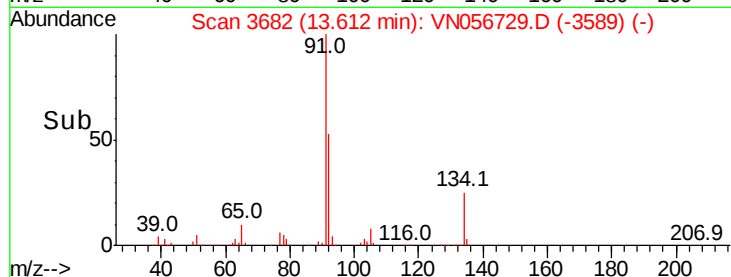
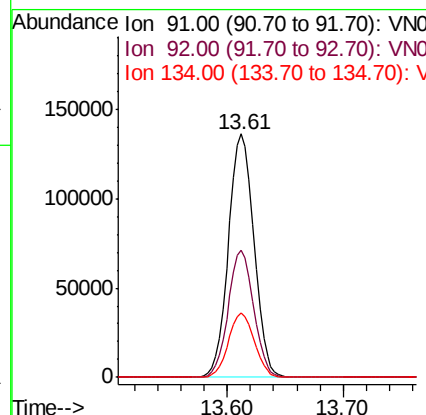
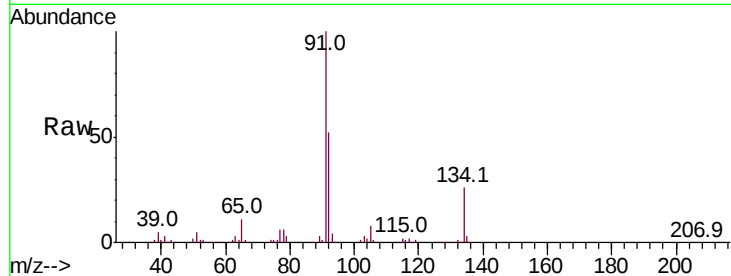
#89
n-Butylbenzene
Concen: 18.186 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100	208580		
92	51.9	26.0	78.0	
134	26.6	13.4	40.2	

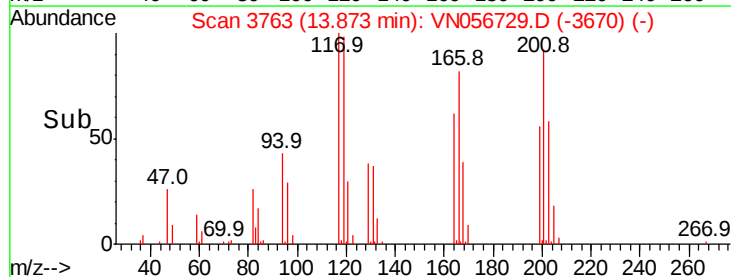
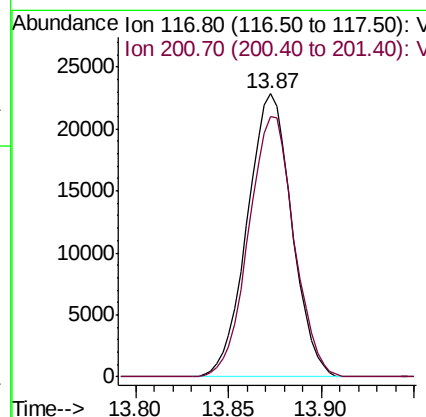
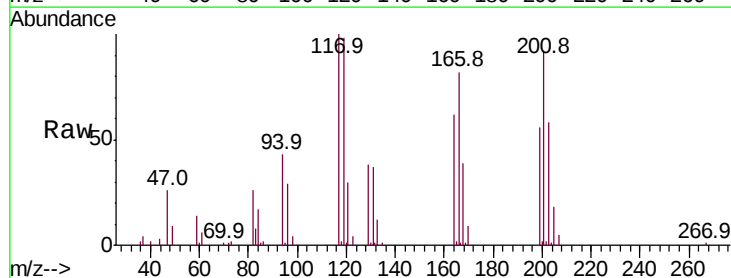
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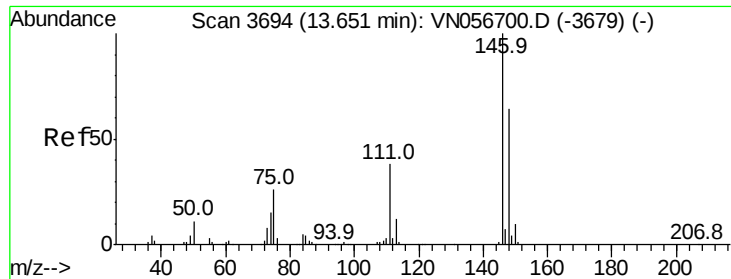
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#90
Hexachloroethane
Concen: 16.632 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	38297		
201	93.5	46.5	139.5	





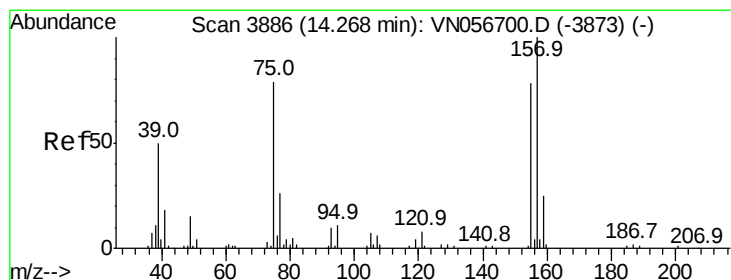
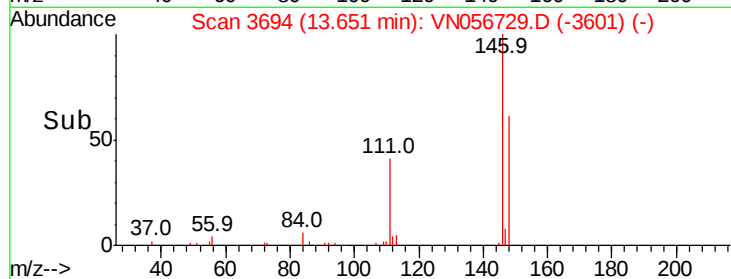
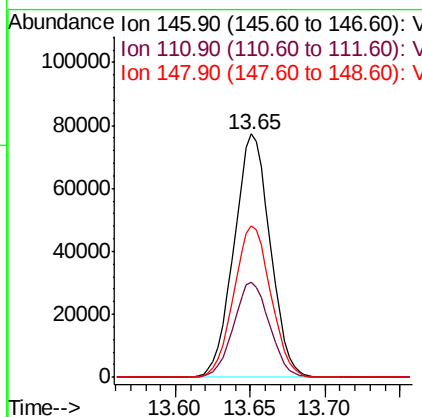
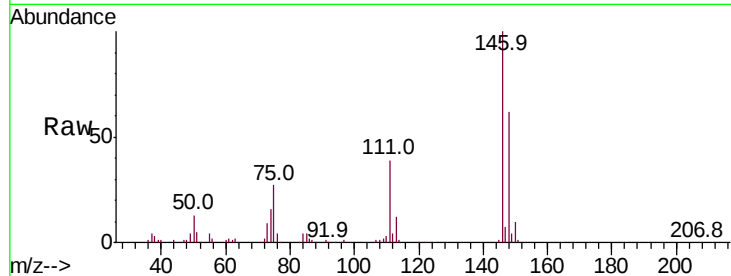
#91
 1,2-Dichlorobenzene
 Concen: 17.759 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0715WBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.1	57.1
148	63.8	31.7	95.1

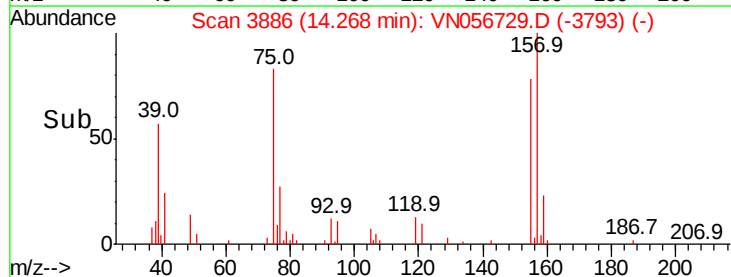
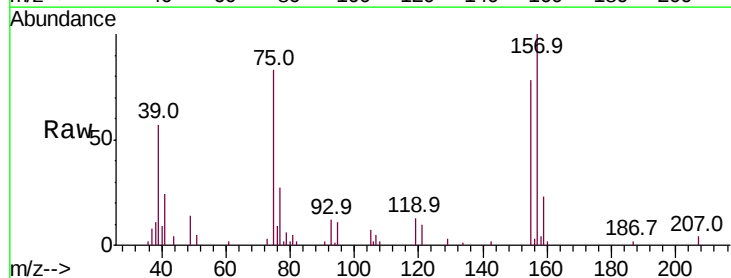
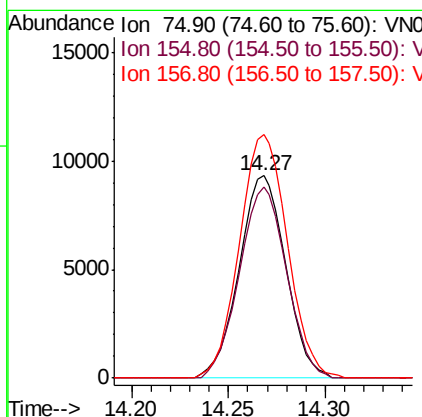
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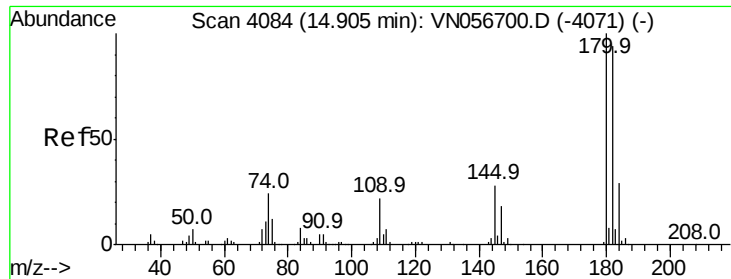
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.463 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056729.D
 Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.1	49.3	147.9
157	124.0	62.4	187.1





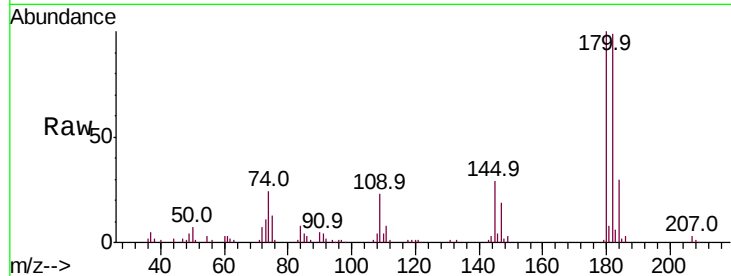
#93
1,2,4-Trichlorobenzene
Concen: 18.110 ug/l
RT: 14.90 min Scan# 4084
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Instrument :
MSVOA_N
ClientSampleId :
VN0715WBS02

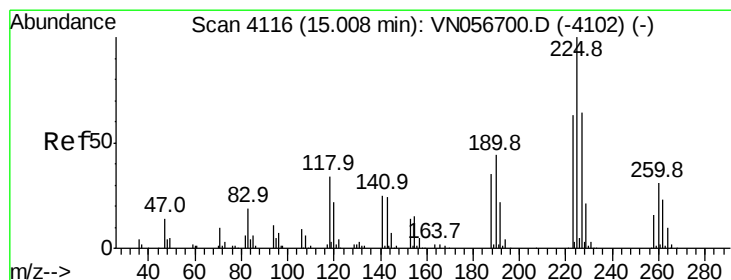
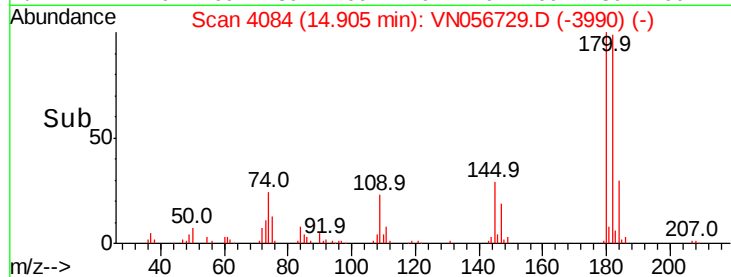
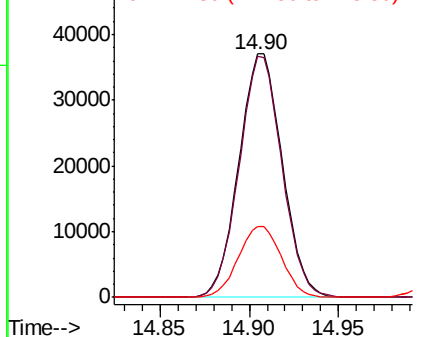
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.2	141.6
145	28.9	14.2	42.8

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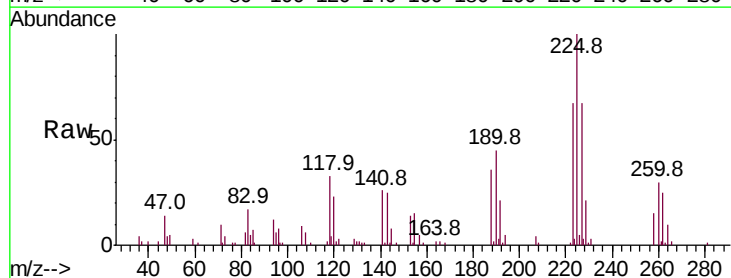


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

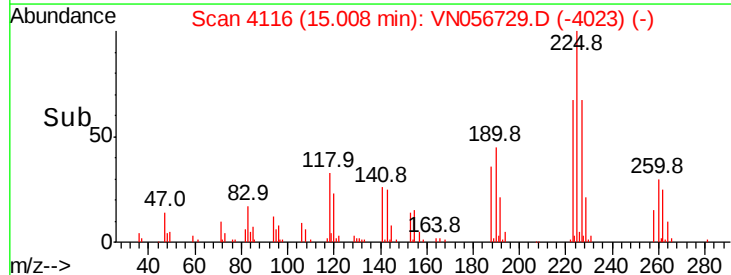
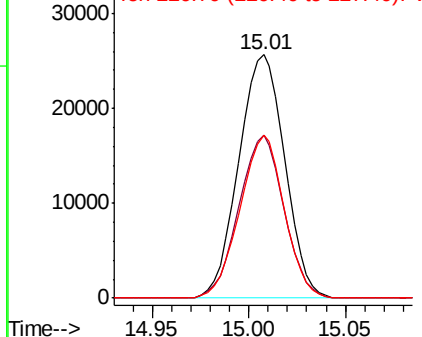


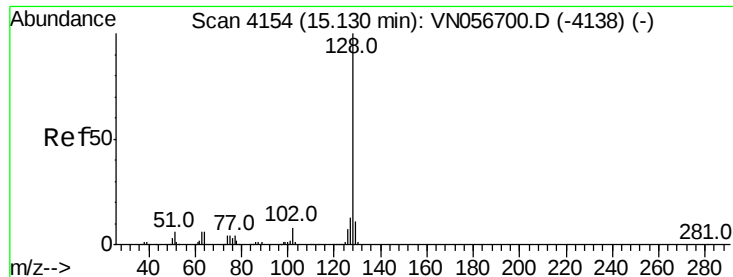
#94
Hexachlorobutadiene
Concen: 17.619 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. 0.00 min
Lab File: VN056729.D
Acq: 15 Jul 2019 22:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.4	31.5	94.5
227	64.3	32.0	96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 17.516 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Instrument :

MSVOA_N

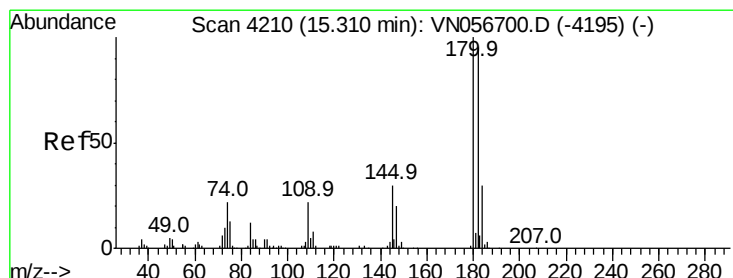
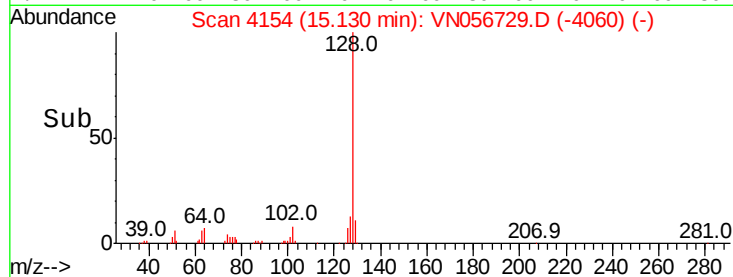
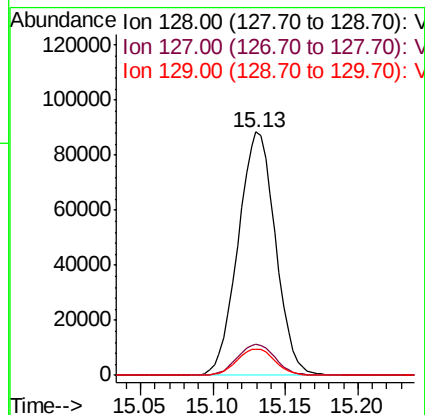
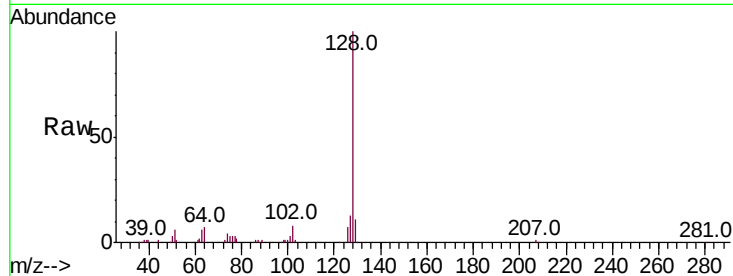
ClientSampleId :

VN0715WBS02

Tot Ion:	128	Resp:	158406
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1

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#96

1,2,3-Trichlorobenzene

Concen: 19.174 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. 0.00 min

Lab File: VN056729.D

Acq: 15 Jul 2019 22:38

Tgt Ion:	180	Resp:	68146
Ion Ratio	Lower	Upper	
180	100		
182	96.8	47.1	141.3
145	30.5	15.0	45.1

