

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052919\
 Data File : VN055870.D
 Acq On : 29 May 2019 12:03
 Operator : JC/SP
 Sample : VN0529MBS01
 Misc : 5.00µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Manual Integrations
 APPROVED

MMDadoda
 5/30/2019 9:35:00 AM

Quant Time: May 30 09:03:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	348109	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	509530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	444435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	182797	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	183311	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
35) Dibromofluoromethane	7.59	113	159656	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
50) Toluene-d8	10.09	98	614868	49.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	200831	47.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	42446	18.118	ug/l	100
3) Chloromethane	2.06	50	60106	18.311	ug/l	99
4) Vinyl Chloride	2.18	62	64387	18.391	ug/l	99
5) Bromomethane	2.54	94	44629	20.375	ug/l	99
6) Chloroethane	2.69	64	41200	19.546	ug/l	97
7) Trichlorofluoromethane	3.01	101	88825	19.352	ug/l	97
8) Diethyl Ether	3.41	74	39757	19.325	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55293	19.298	ug/l	100
10) Methyl Iodide	3.94	142	82413	19.673	ug/l	100
11) Tert butyl alcohol	4.81	59	66405	96.676	ug/l	98
12) 1,1-Dichloroethene	3.72	96	54882	18.538	ug/l	98
13) Acrolein	3.60	56	39370	80.047	ug/l	98
14) Allyl chloride	4.31	41	95664	18.849	ug/l	99
15) Acrylonitrile	4.99	53	160403	101.697	ug/l	100
16) Acetone	3.82	43	157411	99.609	ug/l	99
17) Carbon Disulfide	4.04	76	133708	15.896	ug/l	100
18) Methyl Acetate	4.33	43	70738	21.293	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	196945	19.946	ug/l	99
20) Methylene Chloride	4.54	84	67657	19.769	ug/l	96
21) trans-1,2-Dichloroethene	5.03	96	61115	19.215	ug/l	96
22) Diisopropyl ether	5.96	45	197502	20.008	ug/l	99
23) Vinyl Acetate	5.90	43	813842	96.159	ug/l	100
24) 1,1-Dichloroethane	5.84	63	110054	19.149	ug/l	98
25) 2-Butanone	6.84	43	221602	100.409	ug/l	99
26) 2,2-Dichloropropane	6.82	77	91167	18.328	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	74182	19.991	ug/l	98
28) Bromochloromethane	7.19	49	55411	20.250	ug/l	99
29) Tetrahydrofuran	7.22	42	139974	100.152	ug/l	99
30) Chloroform	7.37	83	114124	19.911	ug/l	98
31) Cyclohexane	7.65	56	103860	19.248	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	97634	19.089	ug/l	99
36) 1,1-Dichloropropene	7.79	75	80277	18.079	ug/l	99
37) Ethyl Acetate	6.93	43	87991	20.503	ug/l	98
38) Carbon Tetrachloride	7.77	117	82408	17.817	ug/l	99

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	102018	18.554	ug/l	99
40) Benzene	8.04	78	262130	19.588	ug/l	99
41) Methacrylonitrile	7.17	41	36245	16.717	ug/l	88
42) 1,2-Dichloroethane	8.12	62	86268	19.728	ug/l	100
43) Isopropyl Acetate	8.17	43	137996	19.138	ug/l #	91
44) Trichloroethene	8.83	130	73285	19.643	ug/l	99
45) 1,2-Dichloropropane	9.12	63	69174	19.840	ug/l	99
46) Dibromomethane	9.21	93	45529	19.911	ug/l	98
47) Bromodichloromethane	9.40	83	87209	18.600	ug/l	99
48) Methyl methacrylate	9.20	41	67314	20.256	ug/l	98
49) 1,4-Dioxane	9.20	88	28383	410.997	ug/l	99
51) 4-Methyl-2-Pentanone	9.99	43	428347	100.584	ug/l	100
52) Toluene	10.16	92	167106	19.854	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	89970	17.977	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	104311	18.814	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	67621	20.055	ug/l	99
56) Ethyl methacrylate	10.43	69	101115	19.404	ug/l	98
57) 1,3-Dichloropropane	10.71	76	108410	19.780	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	177873	89.320	ug/l	100
59) 2-Hexanone	10.75	43	297277	98.401	ug/l	100
60) Dibromochloromethane	10.90	129	72002	18.331	ug/l	100
61) 1,2-Dibromoethane	11.01	107	69002	19.730	ug/l	99
64) Tetrachloroethene	10.63	164	74359	19.837	ug/l	99
65) Chlorobenzene	11.43	112	179423	20.167	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	68683	19.356	ug/l	99
67) Ethyl Benzene	11.51	91	318426	19.958	ug/l	99
68) m/p-Xylenes	11.62	106	240123	39.810	ug/l	98
69) o-Xylene	11.95	106	116886	19.532	ug/l	98
70) Styrene	11.96	104	188915	19.494	ug/l	100
71) Bromoform	12.13	173	50974	16.841	ug/l #	99
73) Isopropylbenzene	12.25	105	308162	22.217	ug/l	99
74) N-amyl acetate	12.07	43	109609	20.813	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	91600	21.926	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	77851m	23.035	ug/l	
77) Bromobenzene	12.53	156	79871	20.476	ug/l	99
78) n-propylbenzene	12.59	91	318358	20.038	ug/l	100
79) 2-Chlorotoluene	12.67	91	199976	21.937	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	253468	21.710	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	23935	17.617	ug/l	92
82) 4-Chlorotoluene	12.77	91	186134	19.931	ug/l	99
83) tert-Butylbenzene	12.99	119	227893	22.419	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	247375	21.295	ug/l	98
85) sec-Butylbenzene	13.17	105	285146	21.842	ug/l	99
86) p-Isopropyltoluene	13.29	119	254922	20.081	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	123413	19.981	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	114219	19.450	ug/l	98
89) n-Butylbenzene	13.61	91	181654	18.676	ug/l	100
90) Hexachloroethane	13.87	117	43209	17.883	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	125251	20.325	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15180	18.742	ug/l	99

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Instrument :
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ClientSampleId :
VN0529MBS01

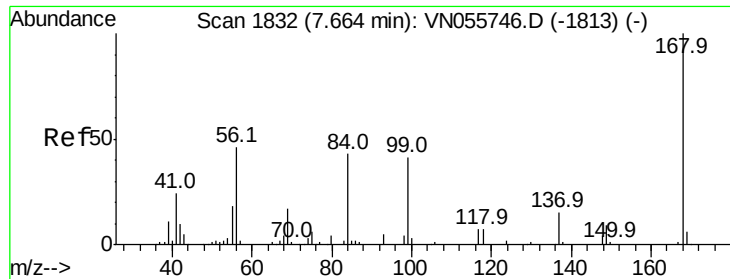
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	54893	17.993	ug/l	100
94) Hexachlorobutadiene	15.01	225	46346	20.285	ug/l	98
95) Naphthalene	15.13	128	174771	20.668	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	61142	18.770	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion:168 Resp: 348109

Ion Ratio Lower Upper

168 100

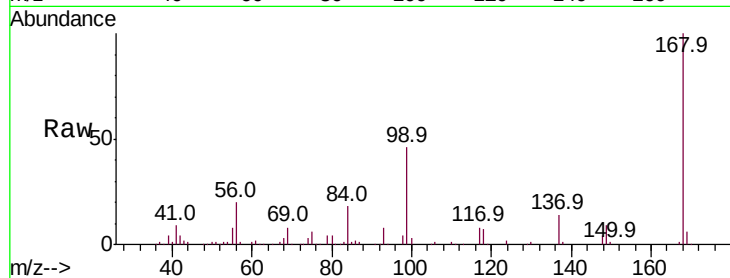
99 45.3 37.2 55.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

150000

100000

50000

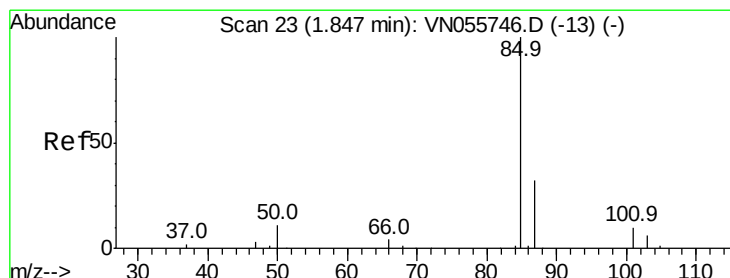
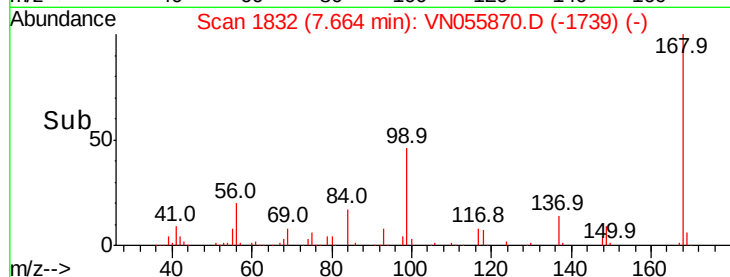
0

7.66

7.70

7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.118 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055870.D

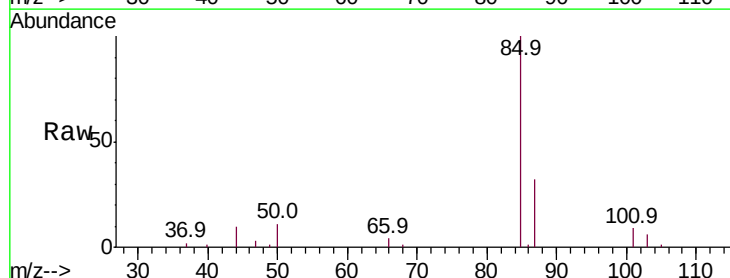
Acq: 29 May 2019 12:03

Tgt Ion: 85 Resp: 42446

Ion Ratio Lower Upper

85 100

87 32.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

30000

25000

20000

15000

10000

5000

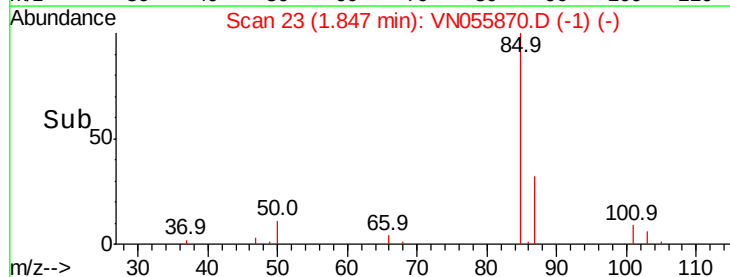
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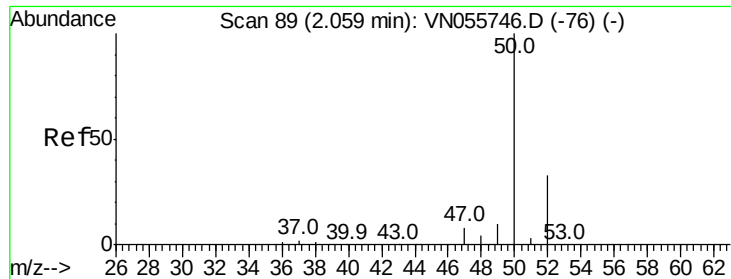
1.85

1.90

1.95

Time-->





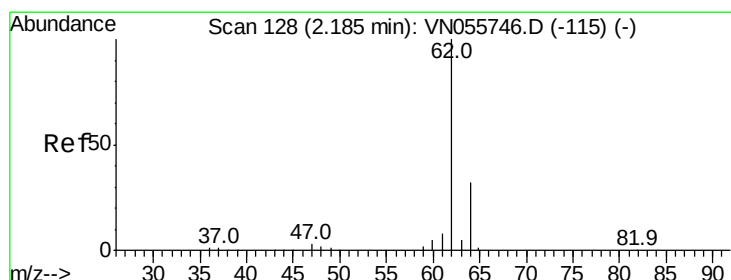
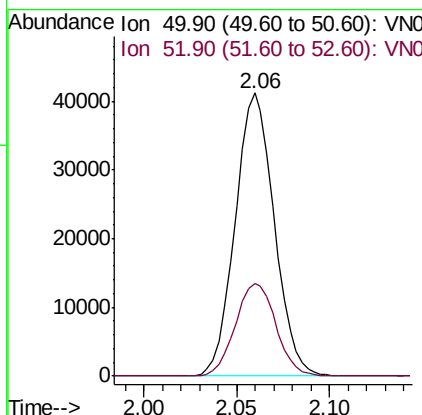
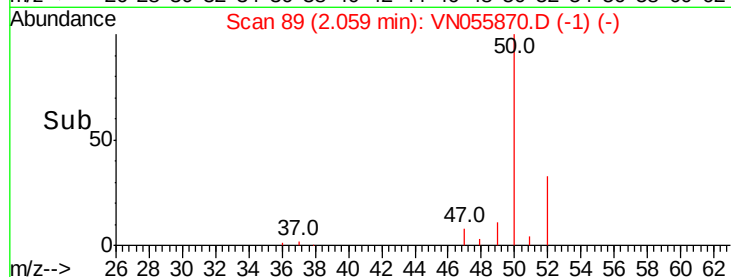
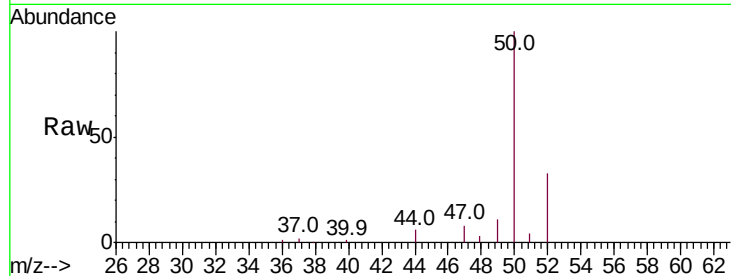
#3
Chloromethane
Concen: 18.311 ug/l
RT: 2.06 min Scan# 89
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion: 50 Resp: 60106
Ion Ratio Lower Upper
50 100
52 32.9 26.6 40.0

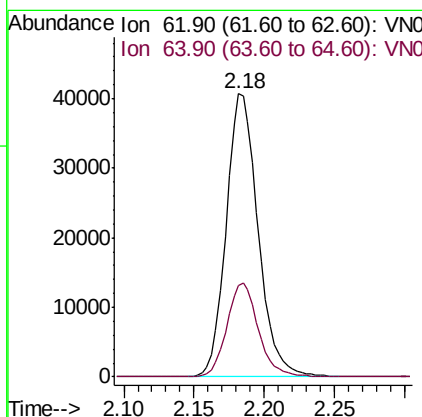
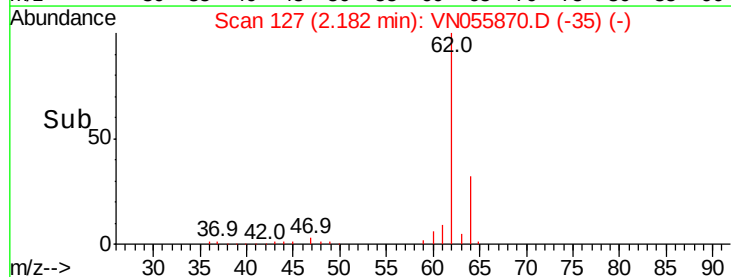
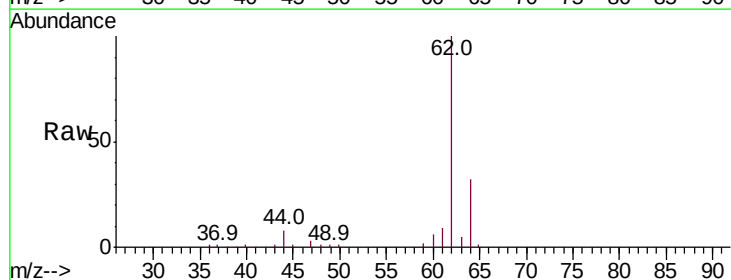
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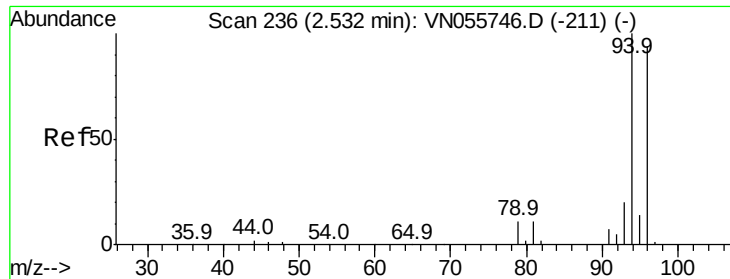
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#4
Vinyl Chloride
Concen: 18.391 ug/l
RT: 2.18 min Scan# 127
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion: 62 Resp: 64387
Ion Ratio Lower Upper
62 100
64 32.5 25.6 38.4





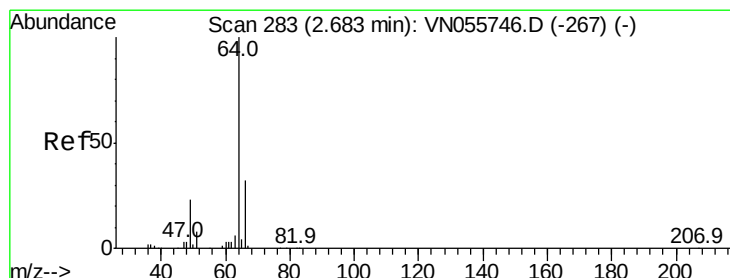
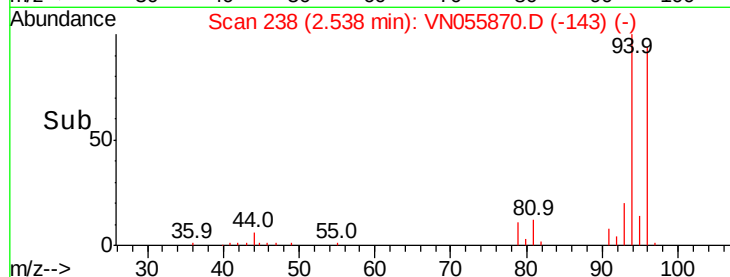
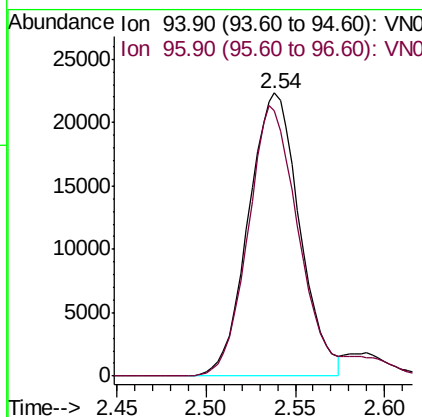
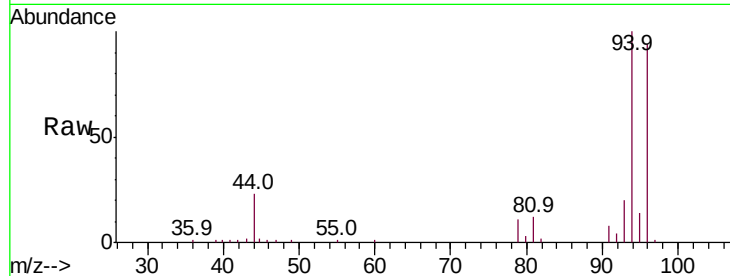
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Bromomethane
Concen: 20.375 ug/l
RT: 2.54 min Scan# 238
Delta R.T. 0.01 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion: 94 Resp: 44629
Ion Ratio Lower Upper
94 100
96 93.8 75.5 113.3

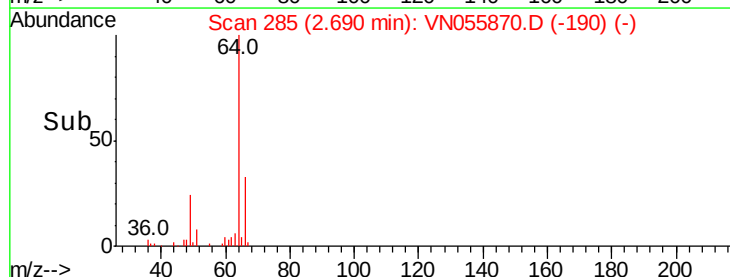
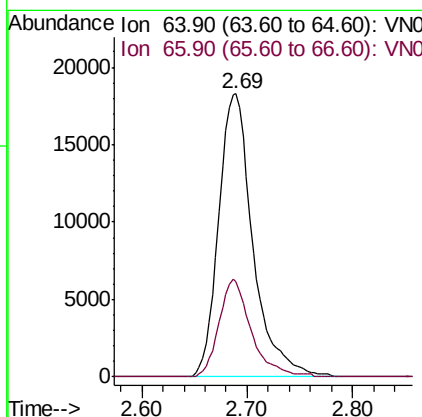
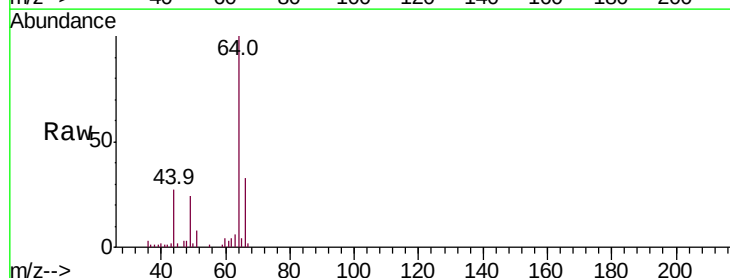
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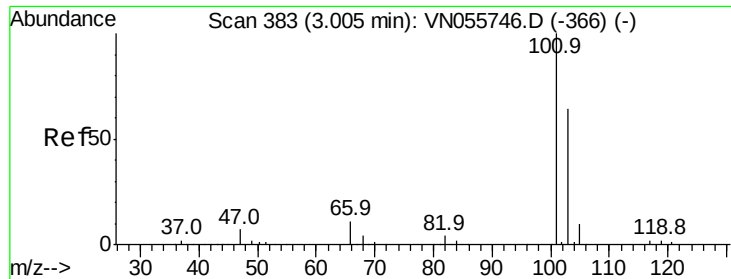
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#6
Chloroethane
Concen: 19.546 ug/l
RT: 2.69 min Scan# 285
Delta R.T. 0.01 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion: 64 Resp: 41200
Ion Ratio Lower Upper
64 100
66 33.5 25.4 38.0





#7

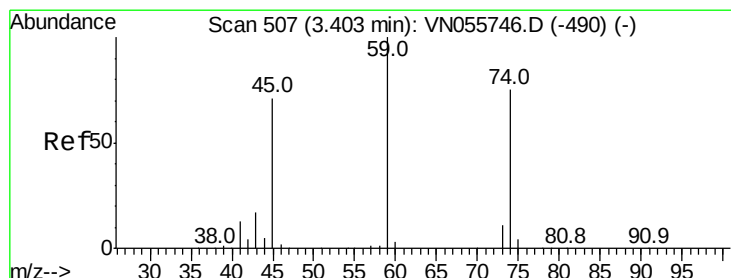
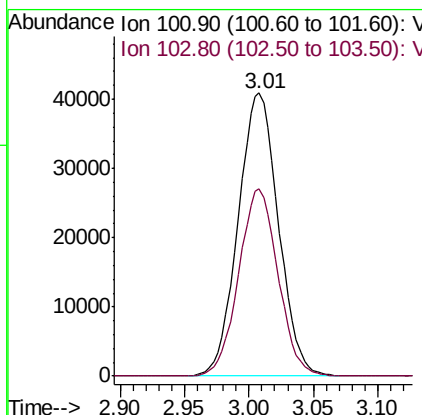
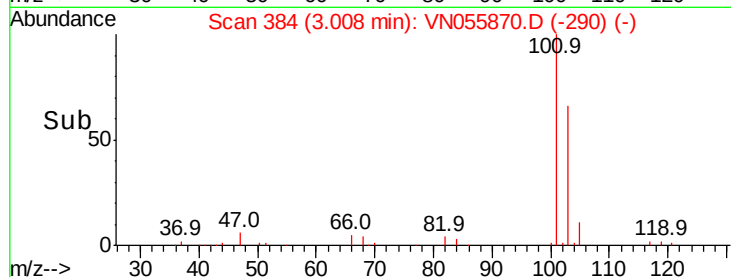
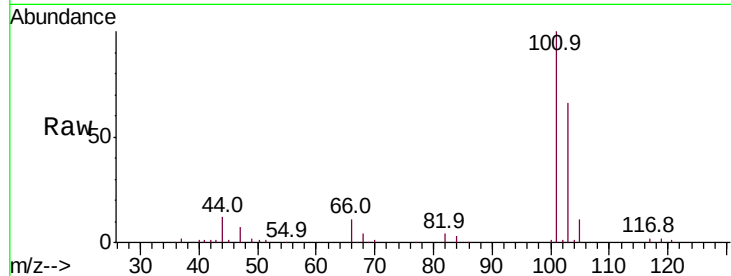
Trichlorofluoromethane
 Concen: 19.352 ug/l
 RT: 3.01 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion:101 Resp: 88825
 Ion Ratio Lower Upper
 101 100
 103 66.2 51.2 76.8

Manual Integrations
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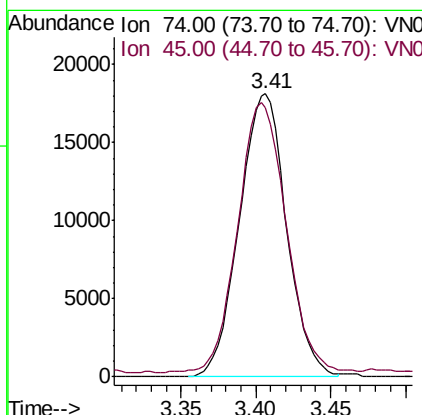
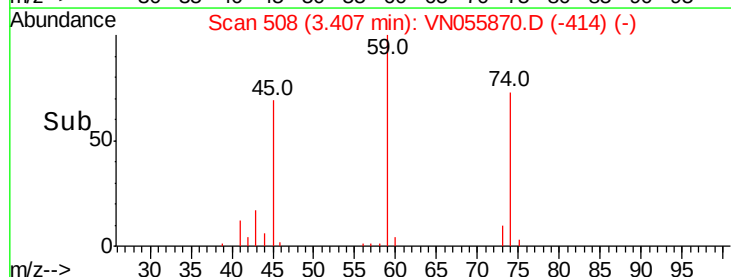
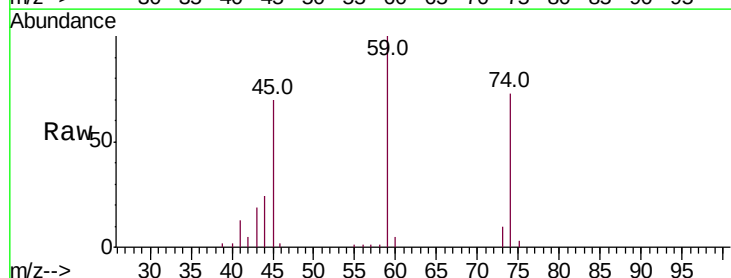
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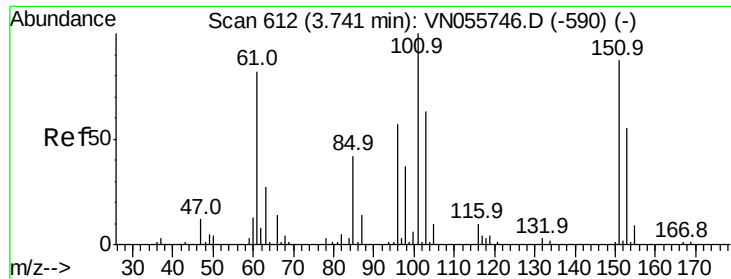


#8

Diethyl Ether
 Concen: 19.325 ug/l
 RT: 3.41 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion: 74 Resp: 39757
 Ion Ratio Lower Upper
 74 100
 45 95.8 48.6 145.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.298 ug/l

RT: 3.74 min Scan# 612

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

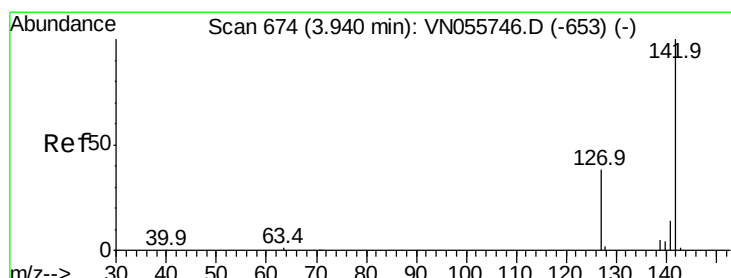
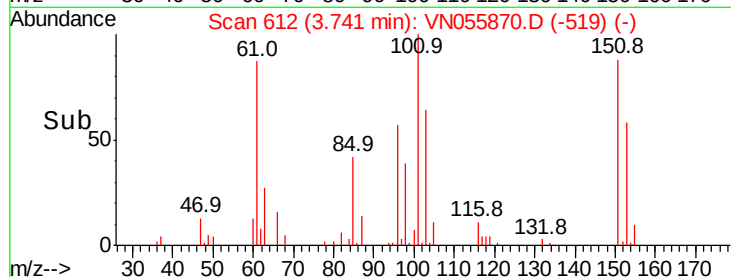
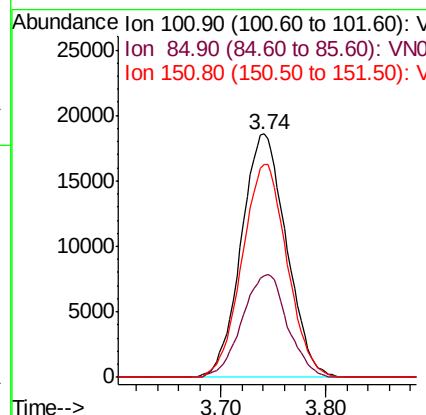
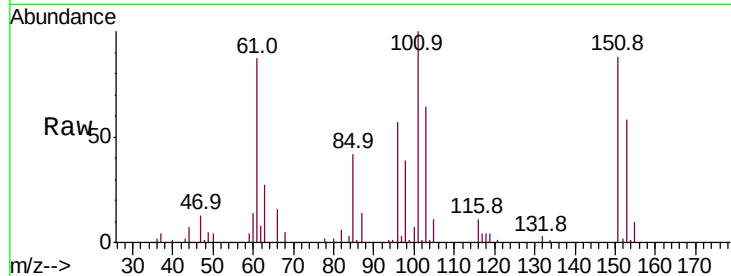
ClientSampleId :

VN0529MBS01

Tot Ion:	101	Resp:	55293
Ion Ratio	Lower	Upper	
101	100		
85	42.3	33.4	50.2
151	87.0	69.4	104.2

Manual Integrations
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5/30/2019 9:35:00 AM



#10

Methyl Iodide

Concen: 19.673 ug/l

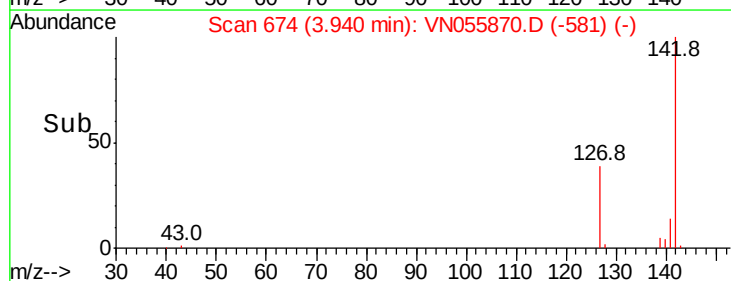
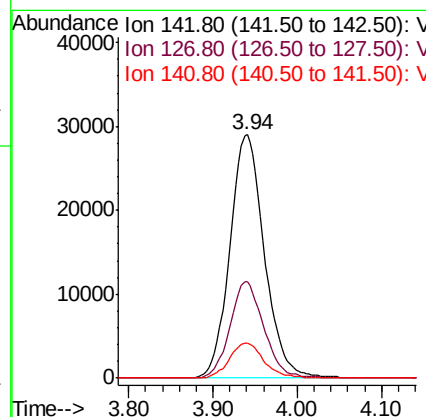
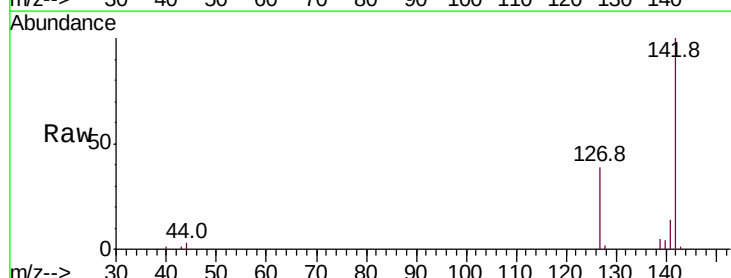
RT: 3.94 min Scan# 674

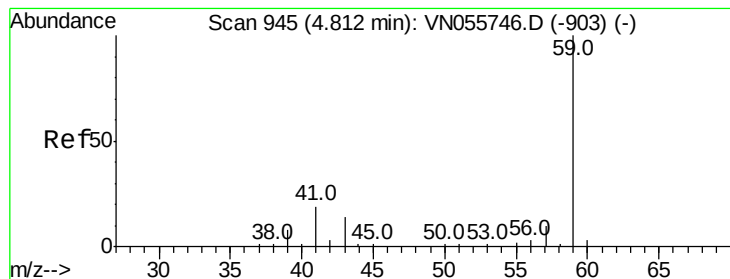
Delta R.T. -0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	142	Resp:	82413
Ion Ratio	Lower	Upper	
142	100		
127	38.7	31.0	46.4
141	14.4	11.4	17.0





#11

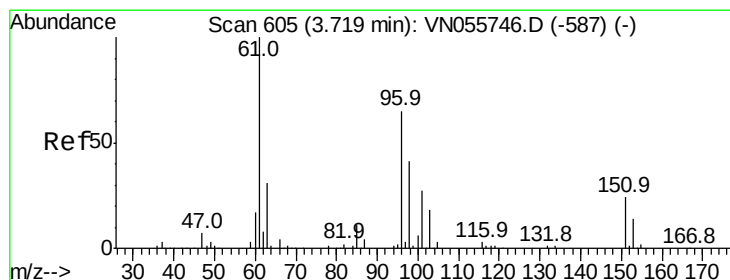
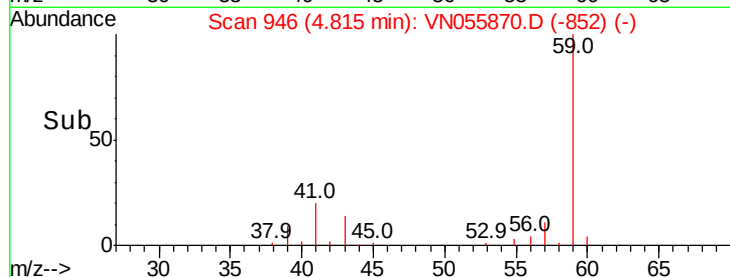
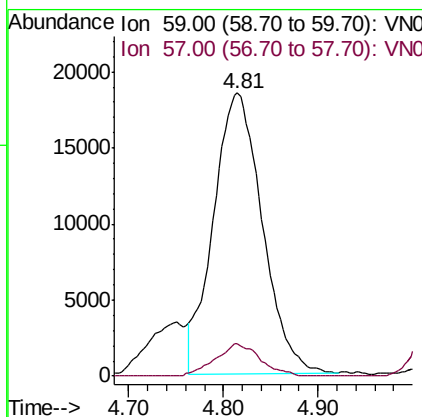
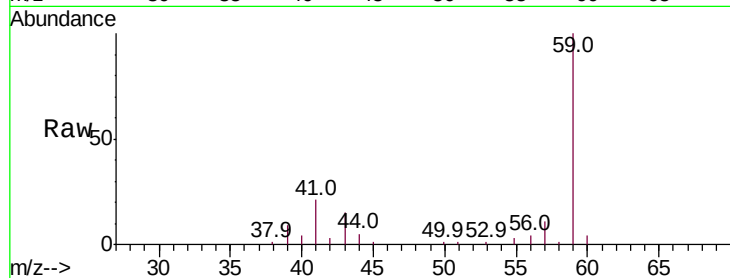
Tert butyl alcohol
 Concen: 96.676 ug/l
 RT: 4.81 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion: 59 Resp: 66405
 Ion Ratio Lower Upper
 59 100
 57 10.6 7.8 11.6

Manual Integrations
 APPROVED

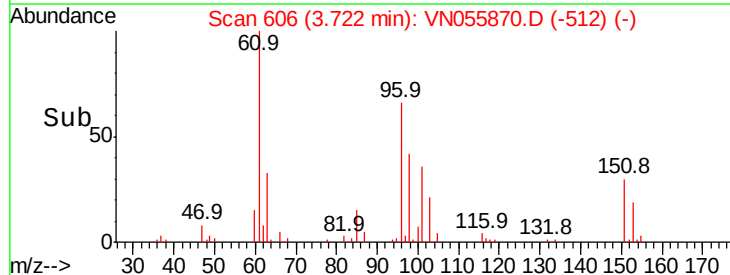
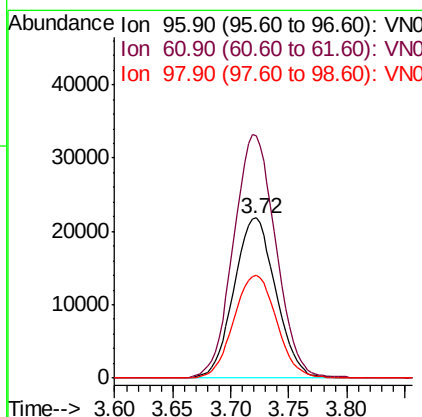
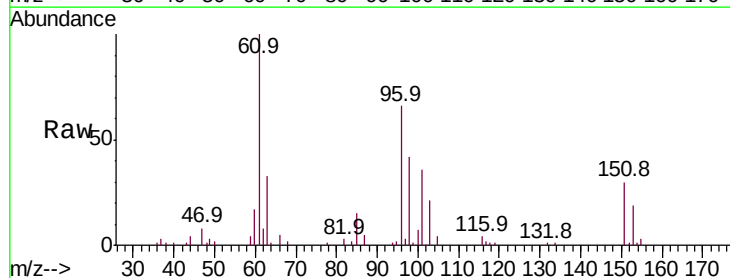
MMDadoda
 5/30/2019 9:35:00 AM

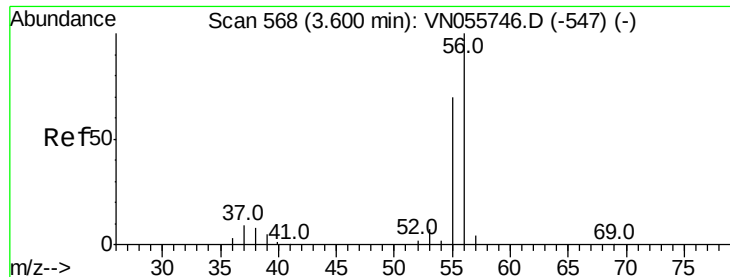


#12

1,1-Dichloroethene
 Concen: 18.538 ug/l
 RT: 3.72 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion: 96 Resp: 54882
 Ion Ratio Lower Upper
 96 100
 61 151.1 123.2 184.8
 98 64.0 50.4 75.6





#13

Acrolein

Concen: 80.047 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion: 56 Resp: 39370

Ion Ratio Lower Upper

56 100

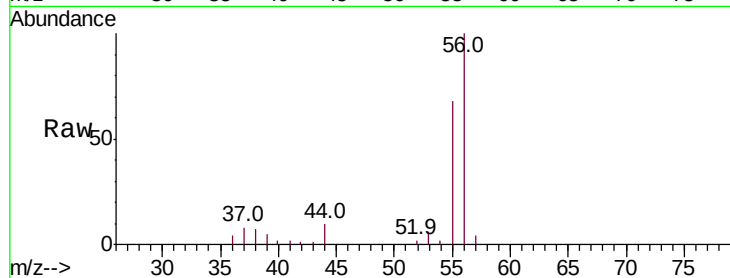
55 70.9 55.4 83.2

Manual Integrations

APPROVED

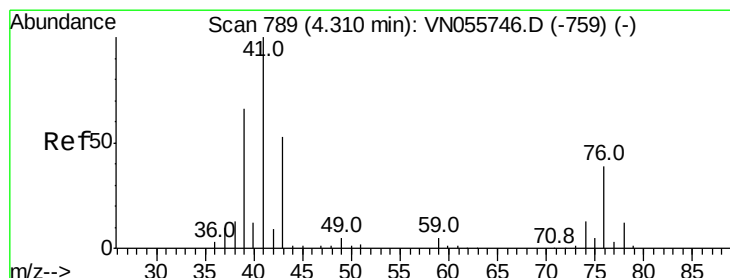
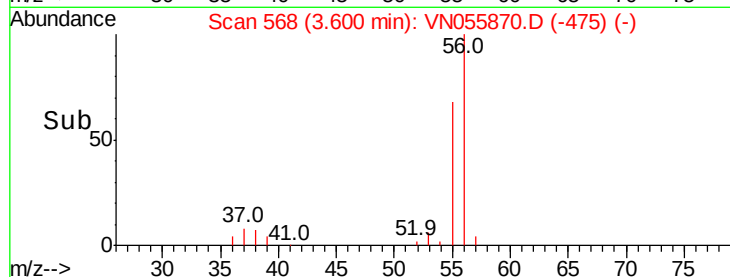
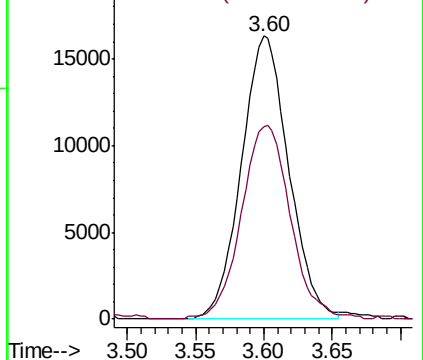
MMDadoda

5/30/2019 9:35:00 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 18.849 ug/l

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

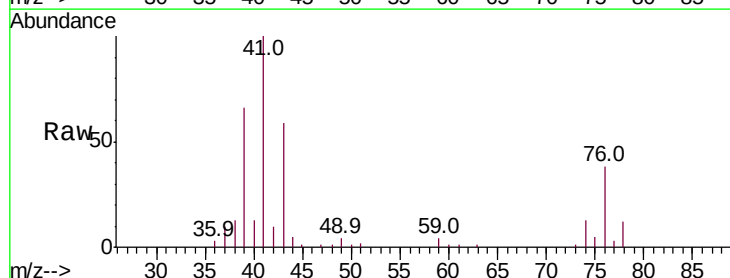
Tgt Ion: 41 Resp: 95664

Ion Ratio Lower Upper

41 100

39 63.5 50.0 75.0

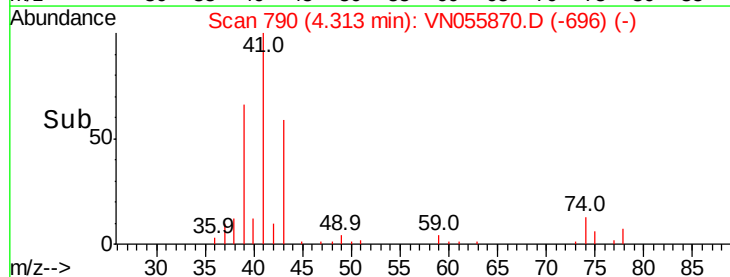
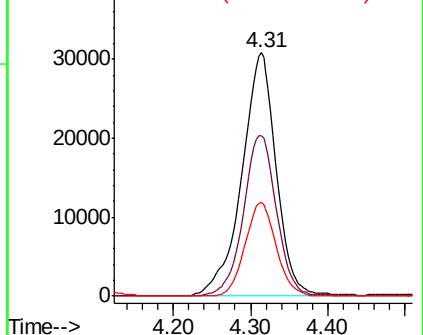
76 34.6 28.2 42.2

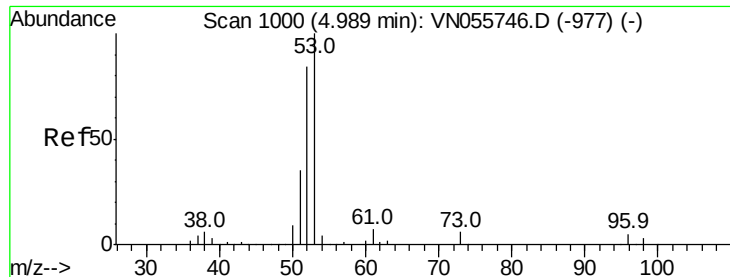


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 101.697 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

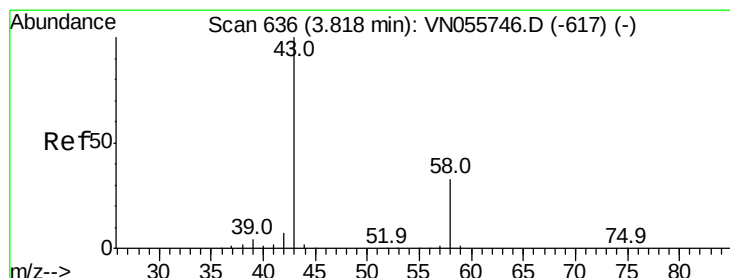
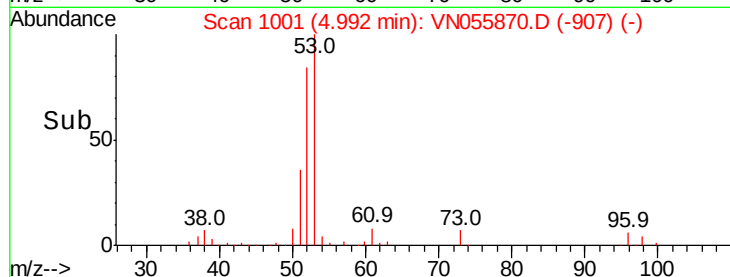
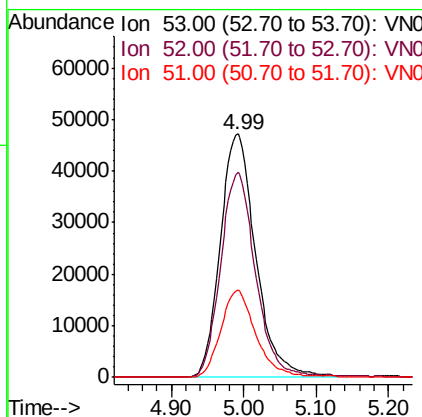
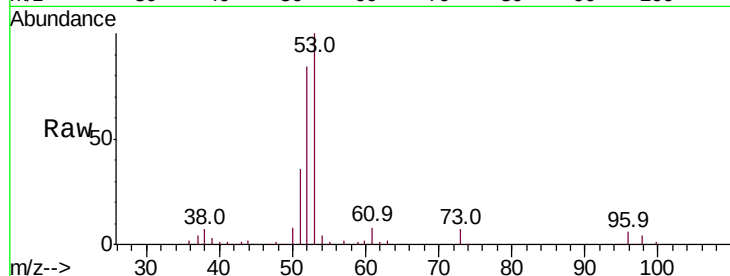
ClientSampleId :

VN0529MBS01

Tot Ion:	53	Resp:	160403
Ion Ratio	Lower	Upper	
53	100		
52	82.6	65.8	98.8
51	35.4	28.2	42.4

Manual Integrations
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5/30/2019 9:35:00 AM



#16

Acetone

Concen: 99.609 ug/l

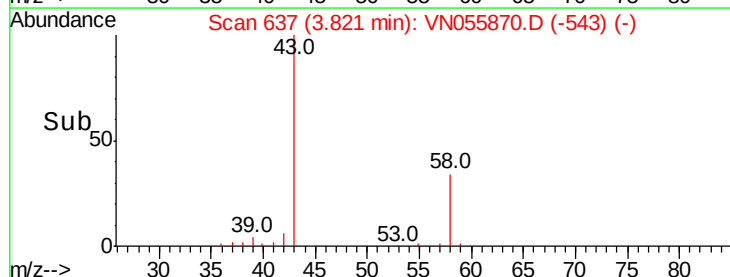
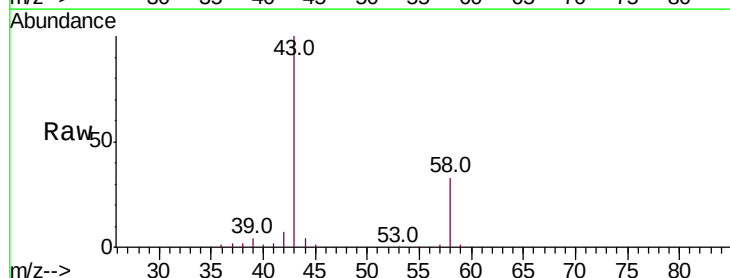
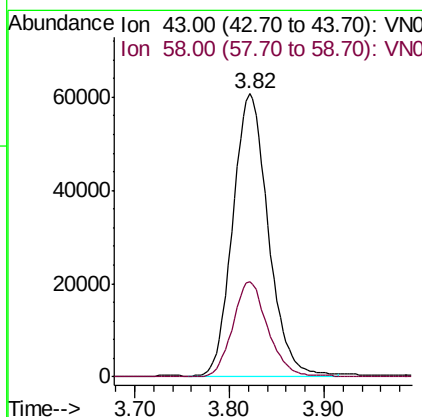
RT: 3.82 min Scan# 637

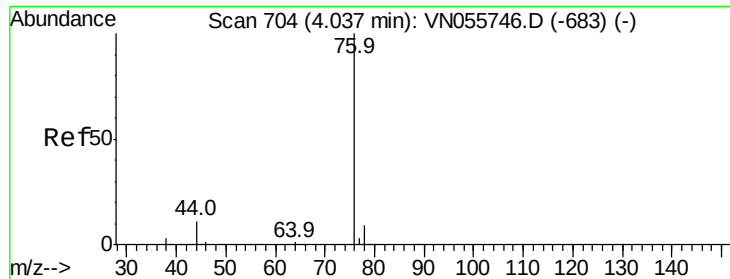
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	43	Resp:	157411
Ion Ratio	Lower	Upper	
43	100		
58	33.6	26.6	39.8





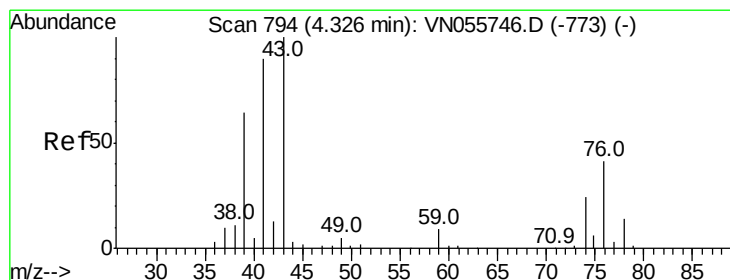
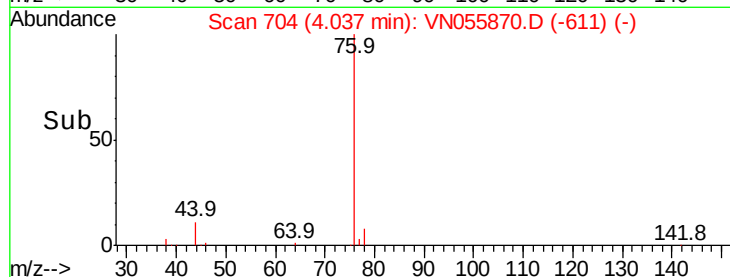
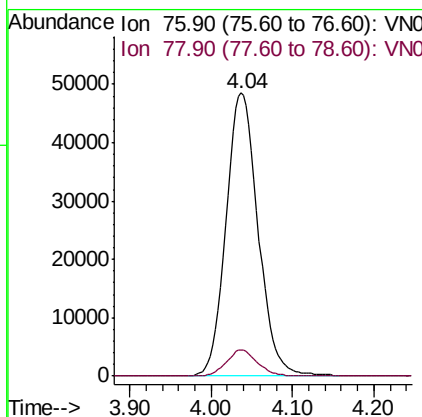
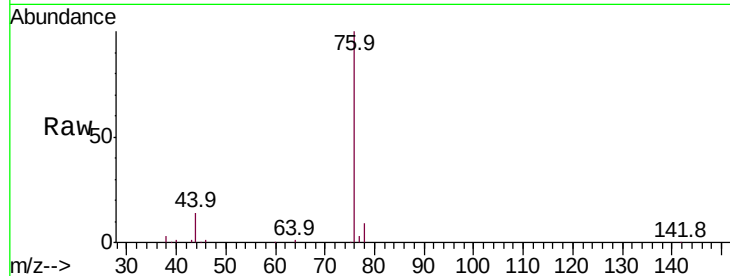
#17
Carbon Disulfide
Concen: 15.896 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.4	11.2

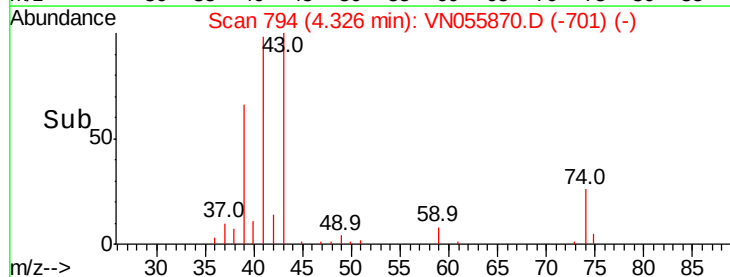
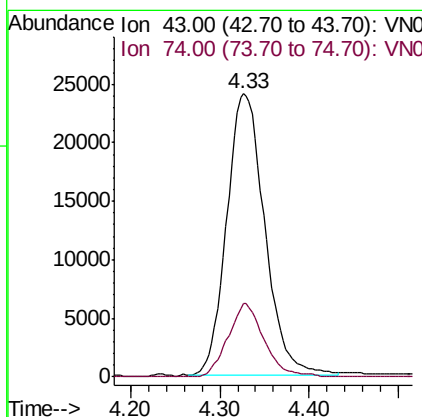
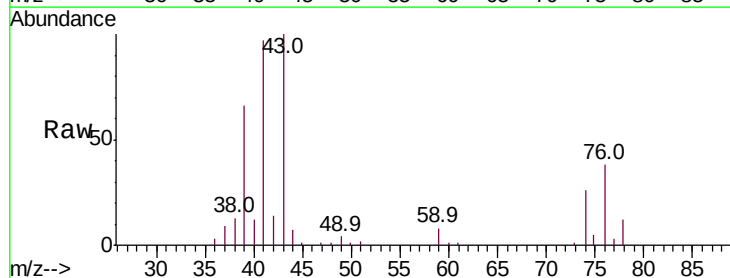
Manual Integrations
APPROVED

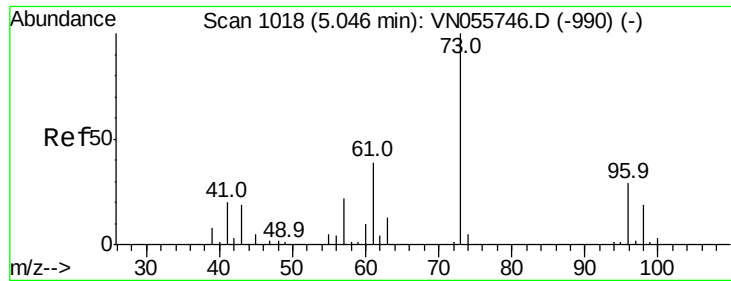
MMDadoda
5/30/2019 9:35:00 AM



#18
Methyl Acetate
Concen: 21.293 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.3	28.9





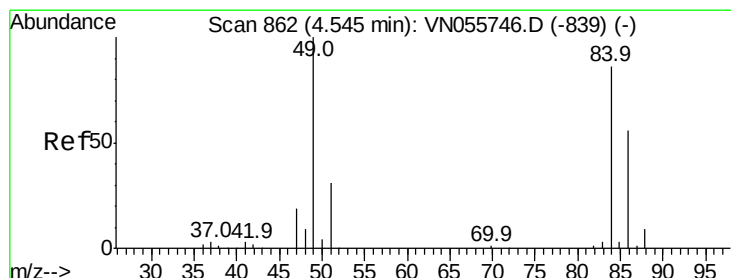
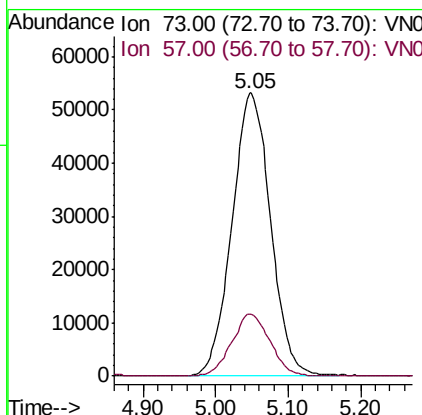
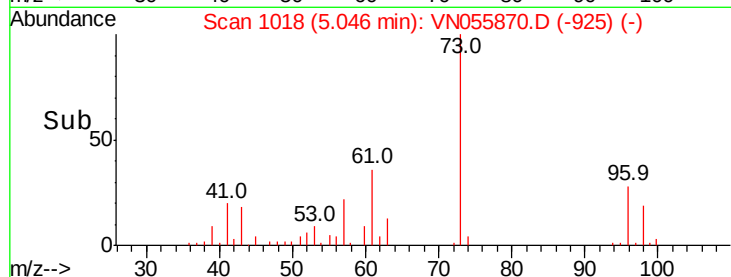
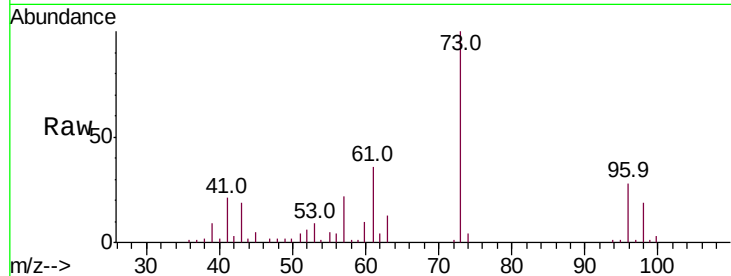
#19
Methyl tert-butyl Ether
Concen: 19.946 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.8	26.8

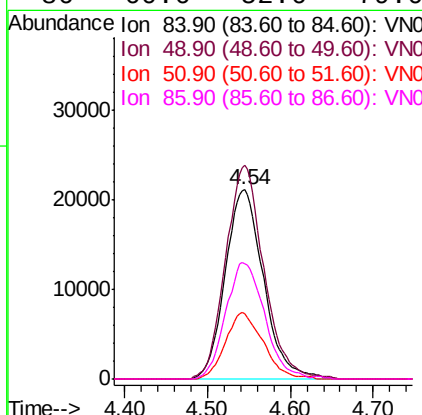
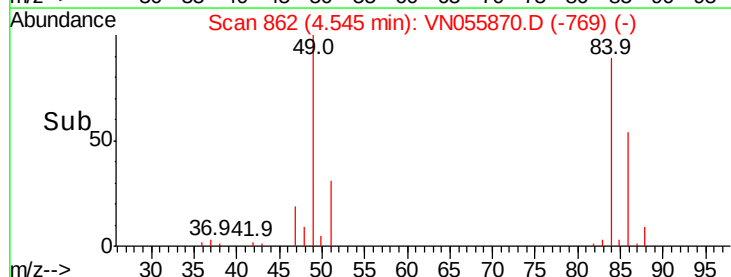
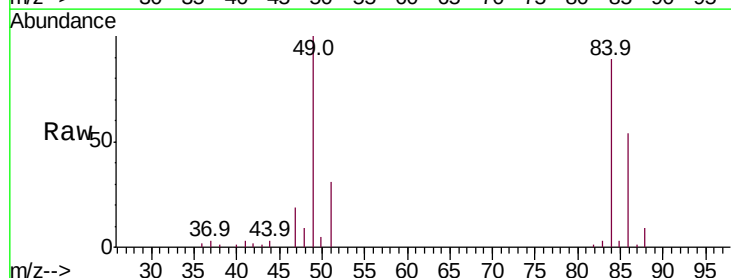
Manual Integrations
APPROVED

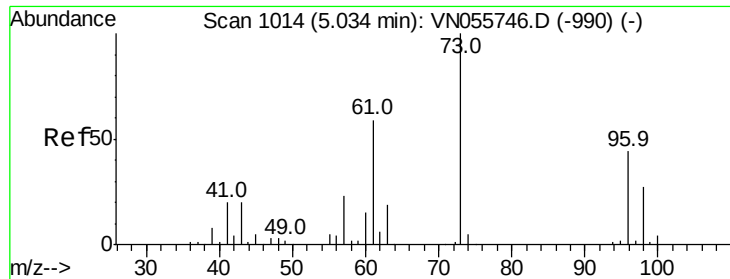
MMDadoda
5/30/2019 9:35:00 AM



#20
Methylene Chloride
Concen: 19.769 ug/l
RT: 4.54 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	112.9	93.5	140.3
51	34.6	28.6	43.0
86	60.6	52.6	79.0





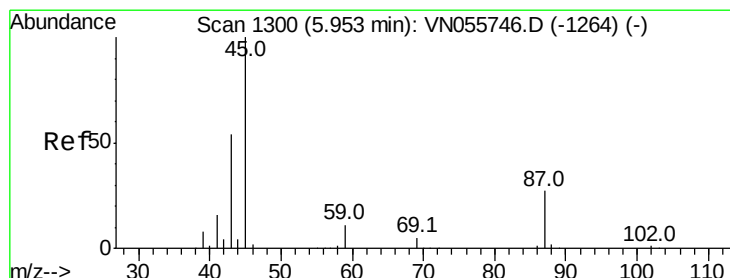
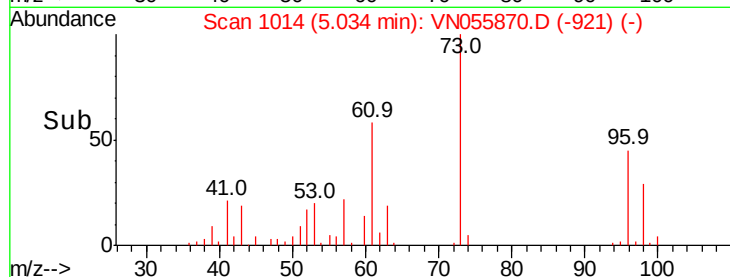
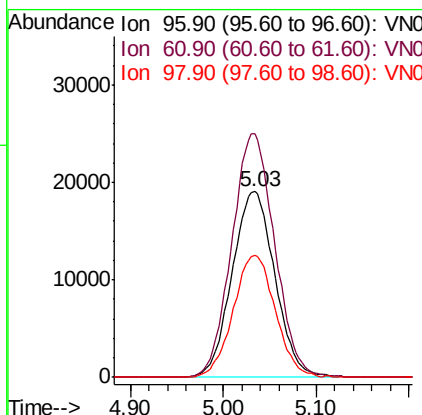
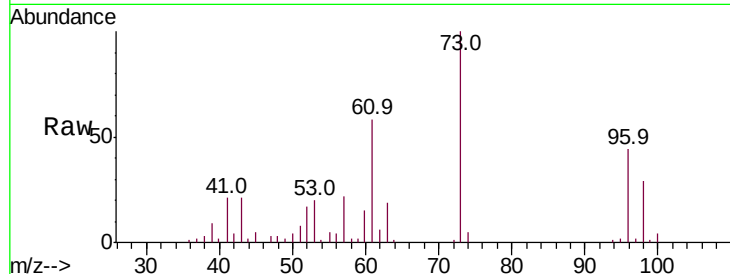
#21
trans-1,2-Dichloroethene
Concen: 19.215 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampled :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	107.8	161.8
98	65.6	49.8	74.8

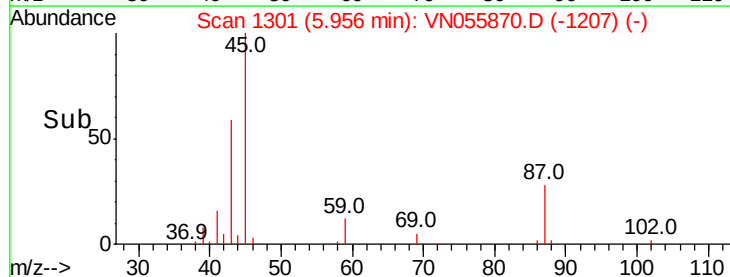
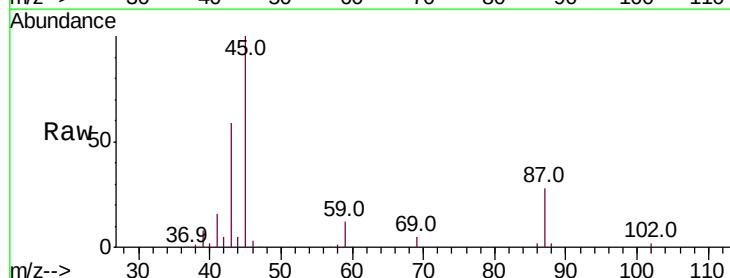
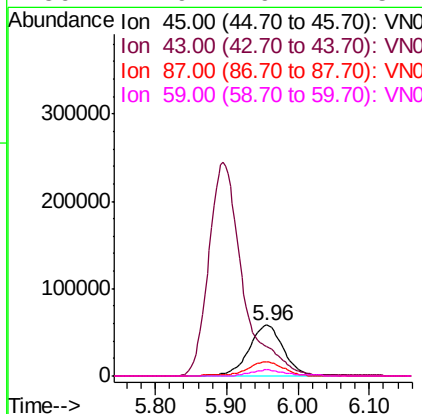
Manual Integrations
APPROVED

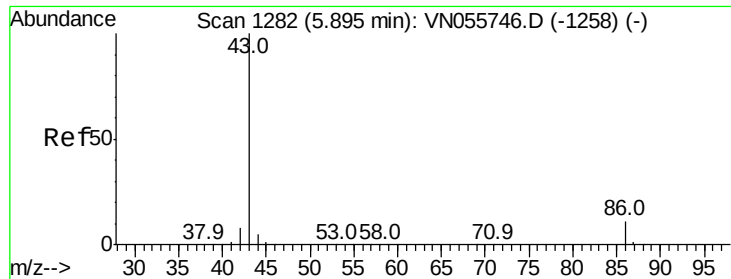
MMDadoda
5/30/2019 9:35:00 AM



#22
Diisopropyl ether
Concen: 20.008 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.8	45.0	67.6
87	27.5	22.2	33.4
59	11.9	9.1	13.7





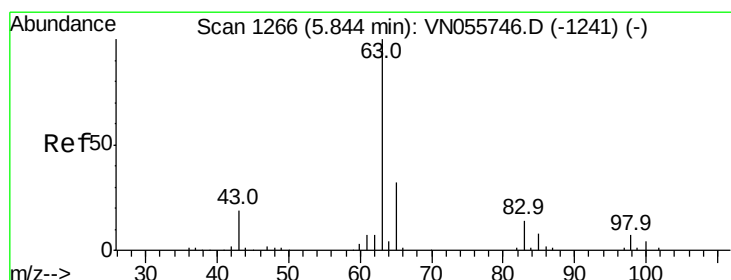
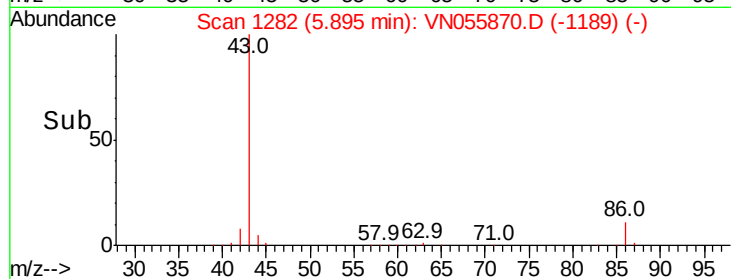
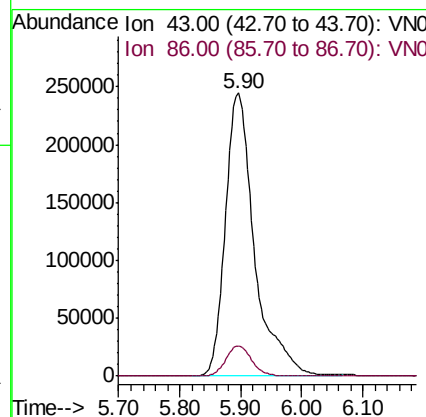
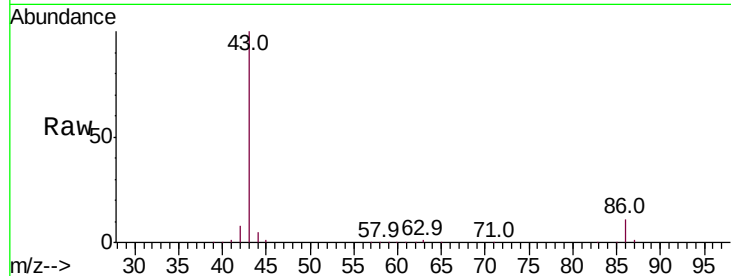
#23
 Vinyl Acetate
 Concen: 96.159 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.6	13.0

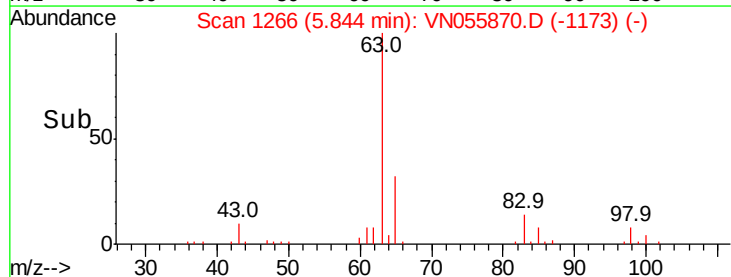
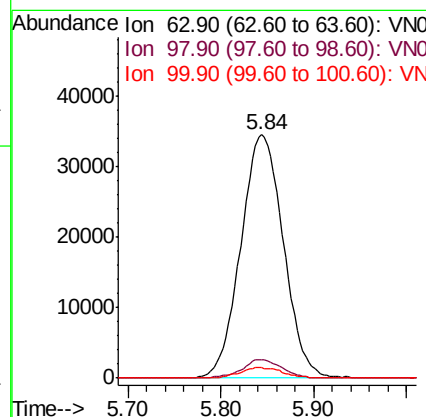
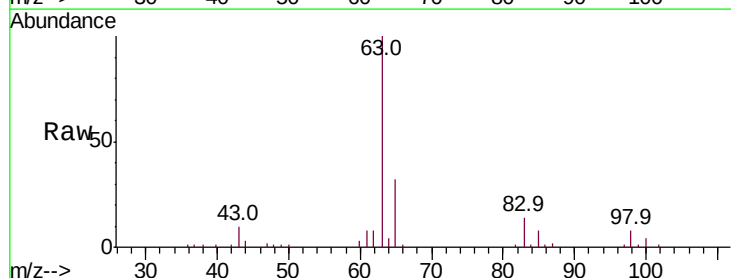
Manual Integrations
 APPROVED

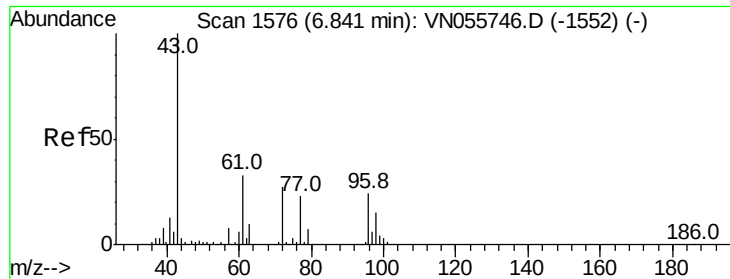
MMDadoda
 5/30/2019 9:35:00 AM



#24
 1,1-Dichloroethane
 Concen: 19.149 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.1
100	4.2	2.2	6.6





#25

2-Butanone

Concen: 100.409 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampled :

VN0529MBS01

Tot Ion: 43 Resp: 221602

Ion Ratio Lower Upper

43 100

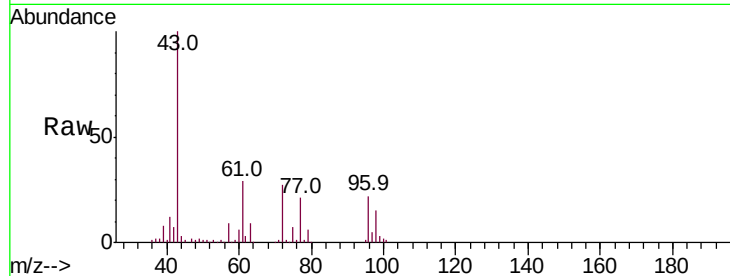
72 26.9 21.9 32.9

Manual Integrations

APPROVED

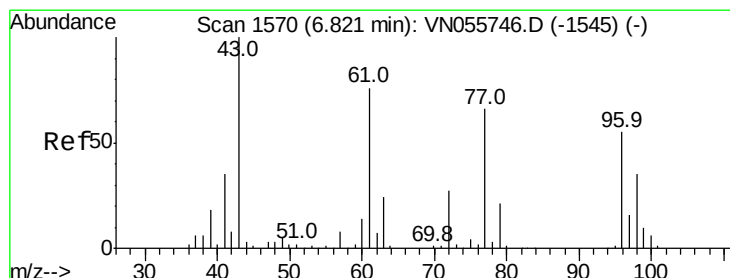
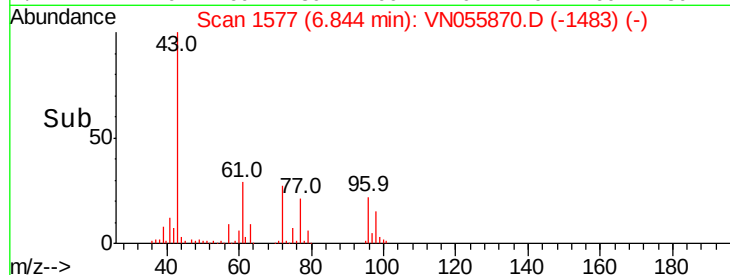
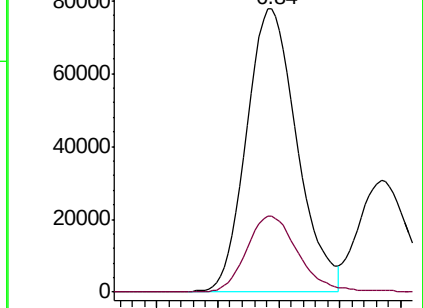
MMDadoda

5/30/2019 9:35:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 18.328 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. -0.00 min

Lab File: VN055870.D

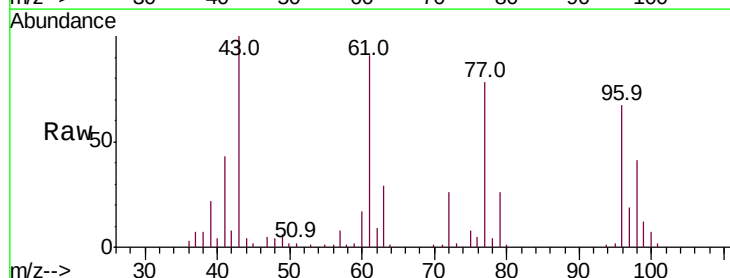
Acq: 29 May 2019 12:03

Tgt Ion: 77 Resp: 91167

Ion Ratio Lower Upper

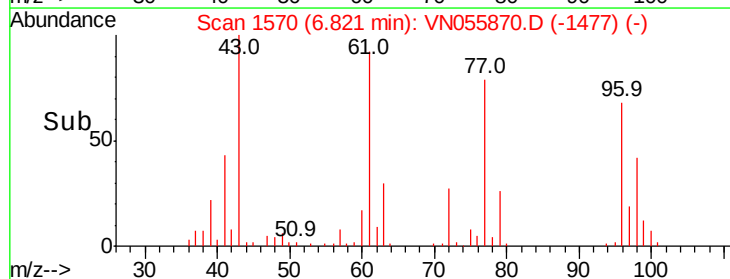
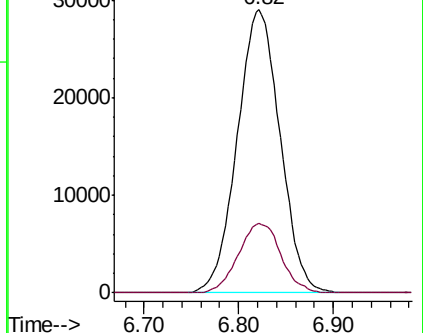
77 100

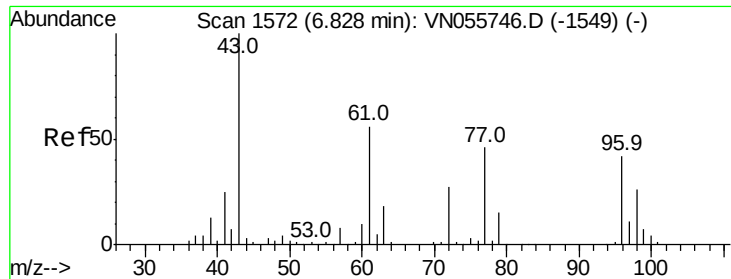
97 24.4 12.2 36.6



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 19.991 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion: 96 Resp: 74182

Ion Ratio Lower Upper

96 100

61 135.1 0.0 275.8

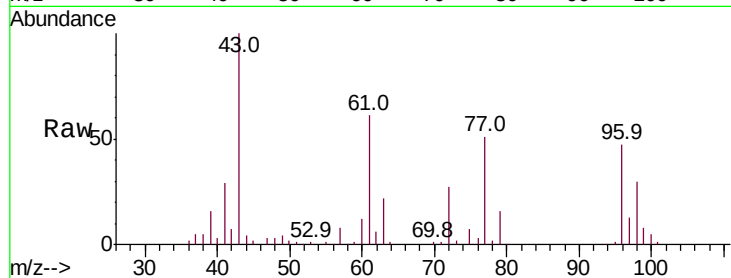
98 64.1 0.0 128.4

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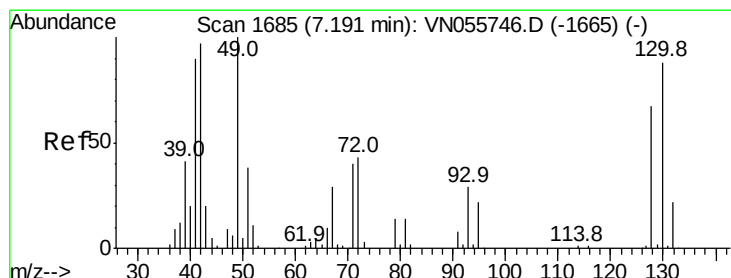
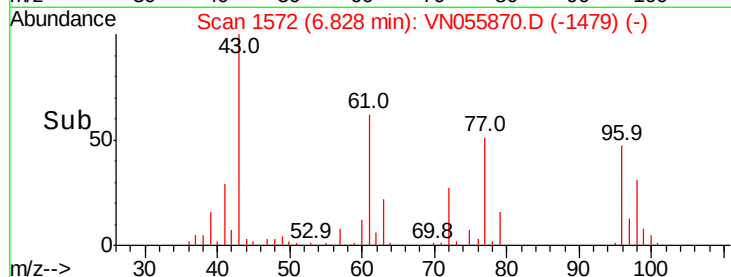
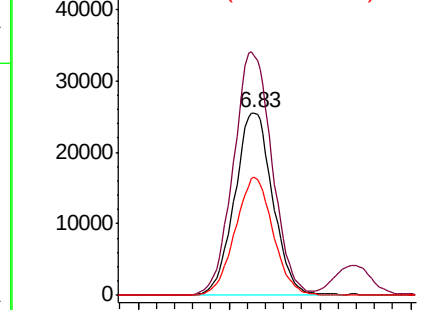
5/30/2019 9:35:00 AM



Abundance Ion 95.90 (95.60 to 96.60): VN055746.D (-1549) (-)

Ion 60.90 (60.60 to 61.60): VN055746.D (-1549) (-)

Ion 97.90 (97.60 to 98.60): VN055746.D (-1549) (-)



#28

Bromochloromethane

Concen: 20.250 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

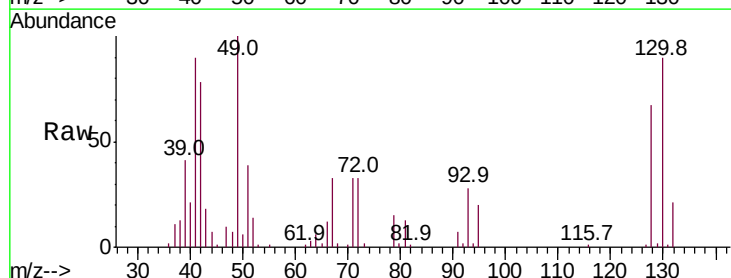
Tgt Ion: 49 Resp: 55411

Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.4

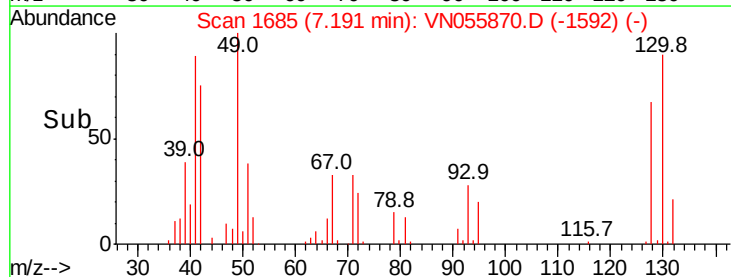
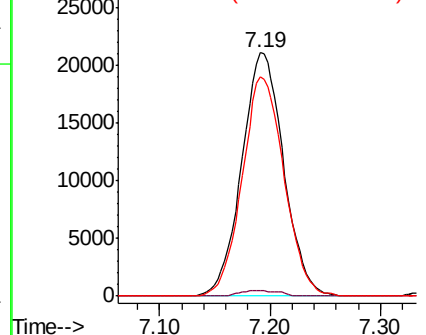
130 90.0 71.2 106.8

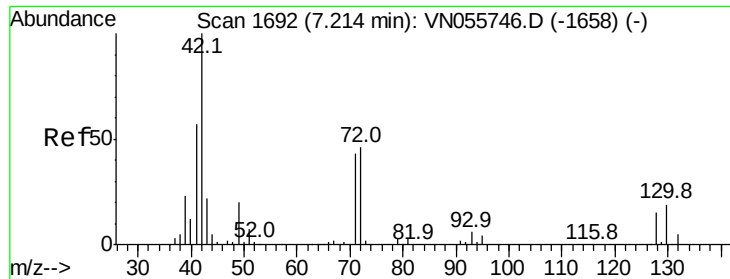


Abundance Ion 48.90 (48.60 to 49.60): VN055746.D (-1665) (-)

Ion 128.80 (128.50 to 129.50): VN055746.D (-1665) (-)

Ion 129.80 (129.50 to 130.50): VN055746.D (-1665) (-)





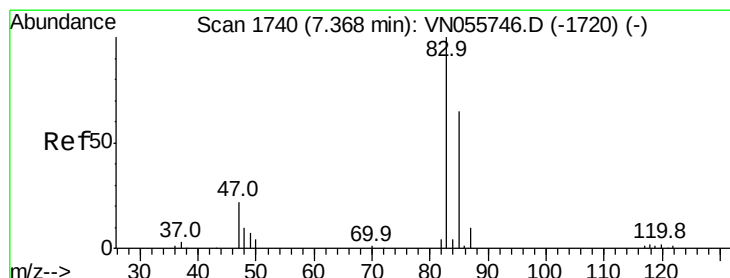
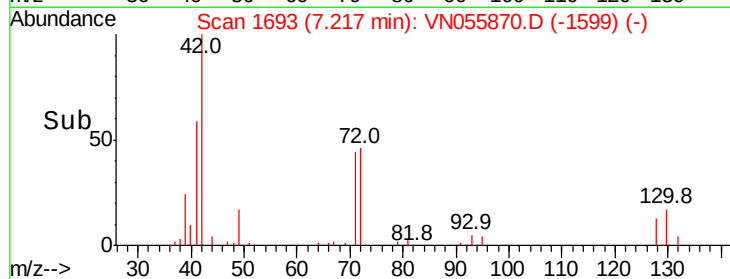
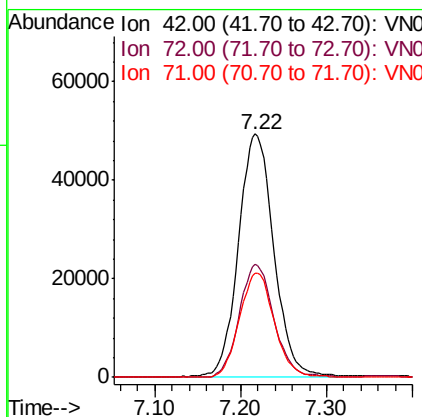
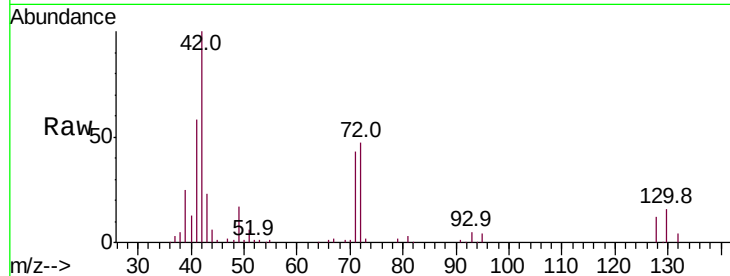
#29
Tetrahydrofuran
Concen: 100.152 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.0	35.9	53.9
71	42.7	34.0	51.0

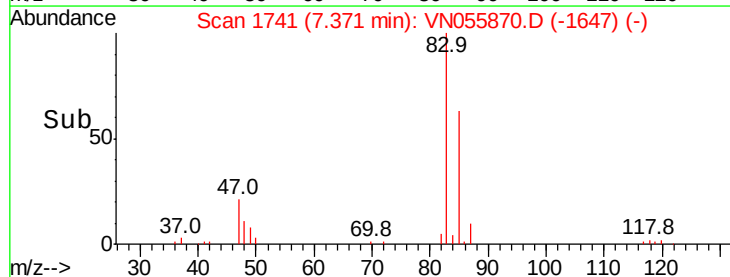
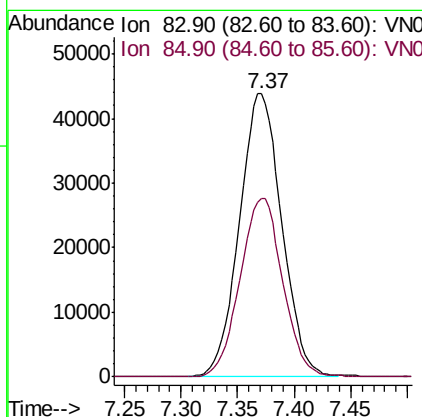
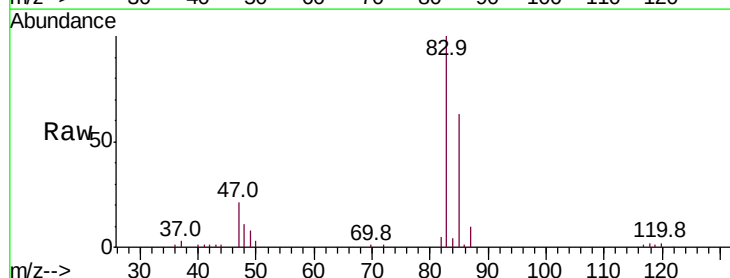
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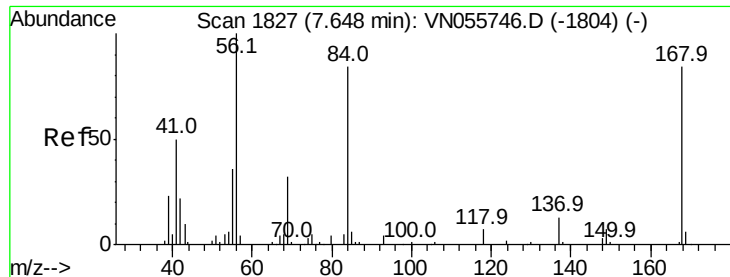
MMDadoda
5/30/2019 9:35:00 AM



#30
Chloroform
Concen: 19.911 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.8	77.8





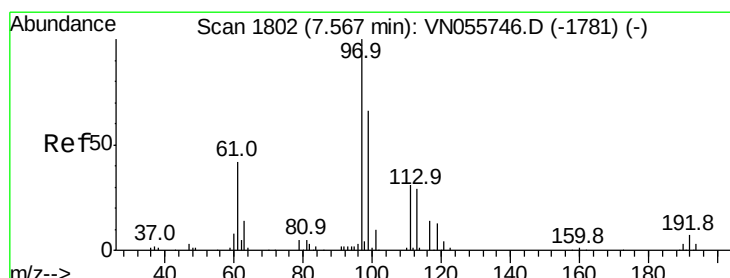
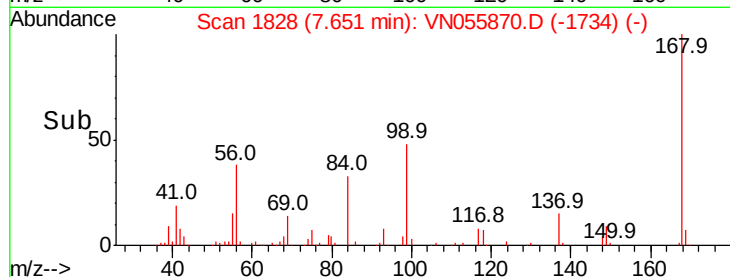
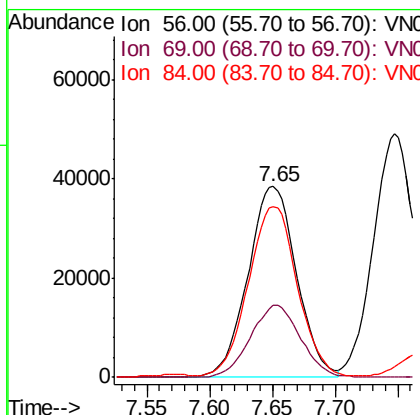
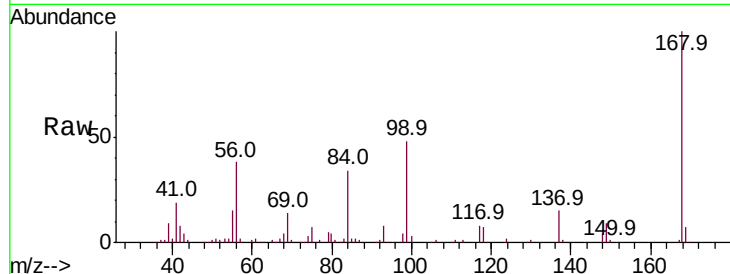
#31
Cyclohexane
Concen: 19.248 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	25.6	38.4
84	88.6	67.4	101.0

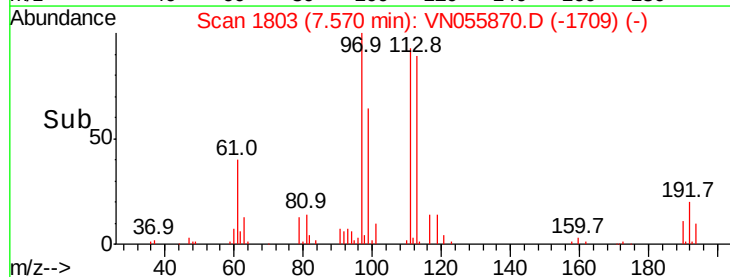
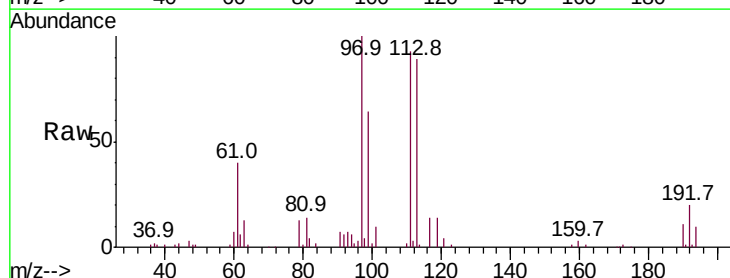
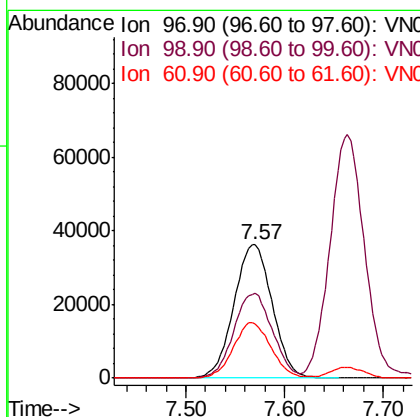
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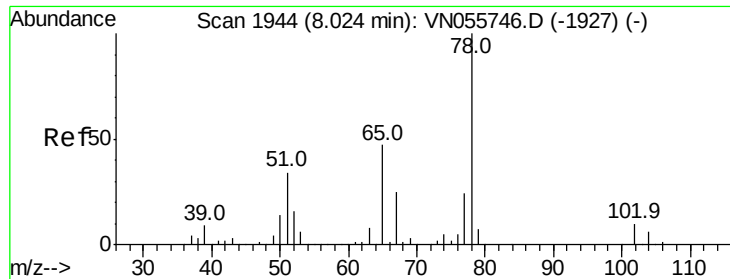
MMDadoda
5/30/2019 9:35:00 AM



#32
1,1,1-Trichloroethane
Concen: 19.089 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.0	78.0
61	40.9	32.9	49.3





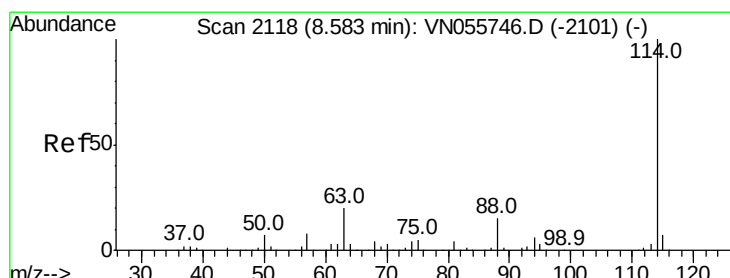
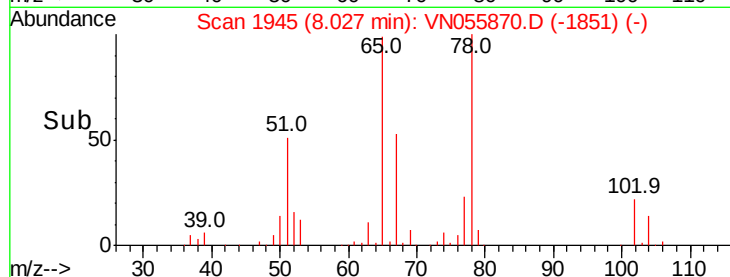
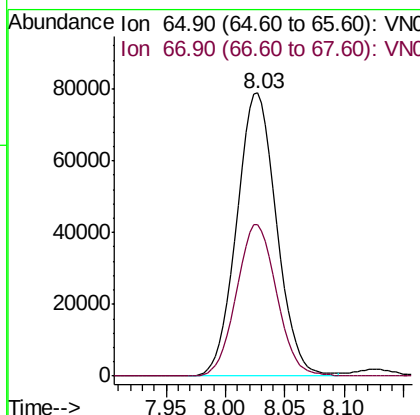
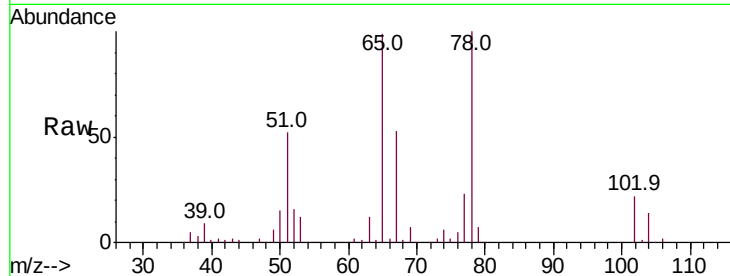
#33
 1,2-Dichloroethane-d4
 Concen: 50.991 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.9	0.0	109.2	

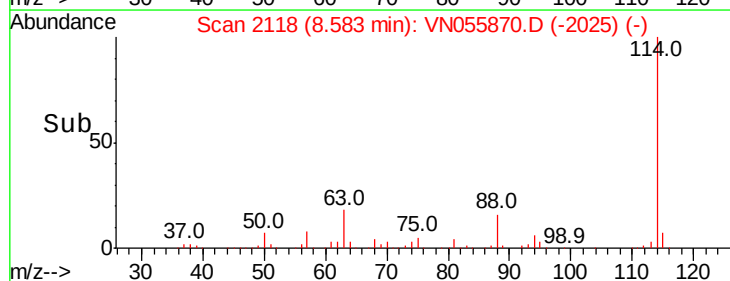
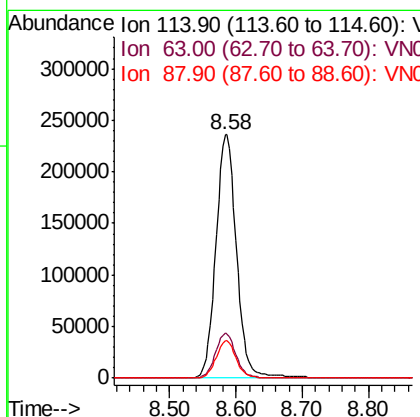
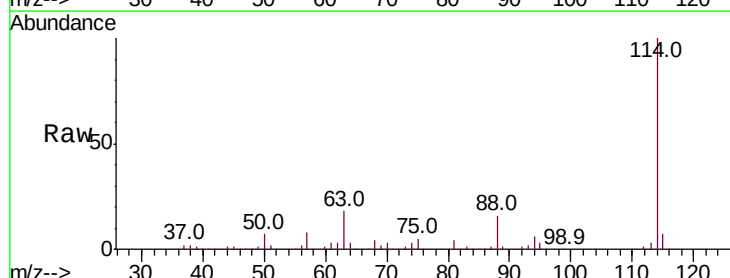
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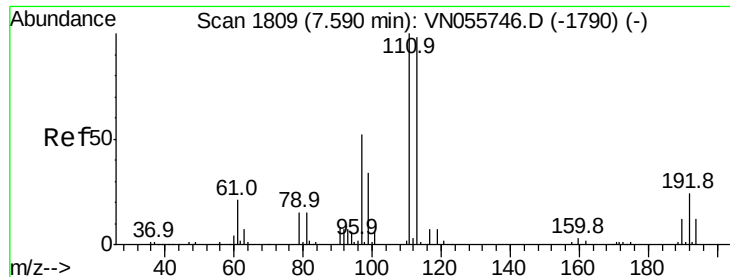
MMDadoda
 5/30/2019 9:35:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.4	0.0	39.2	
88	15.5	0.0	31.0	





#35

Dibromofluoromethane

Concen: 49.561 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

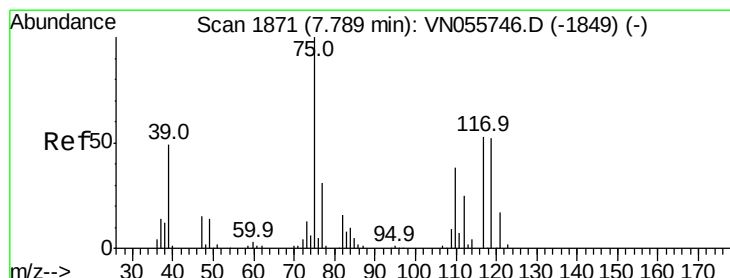
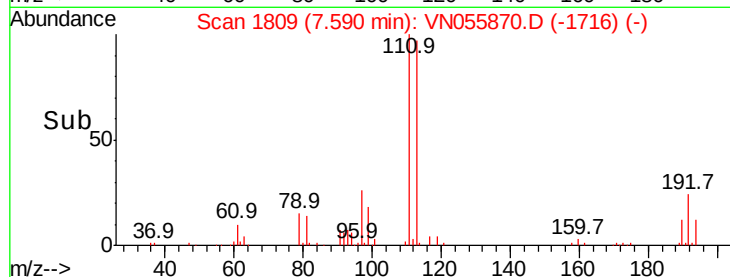
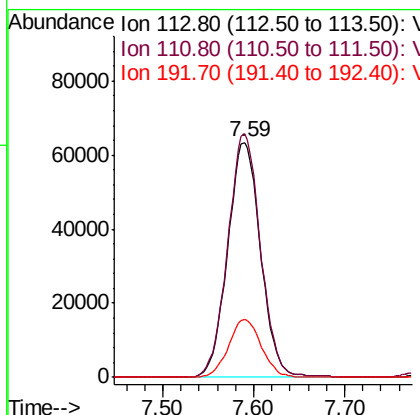
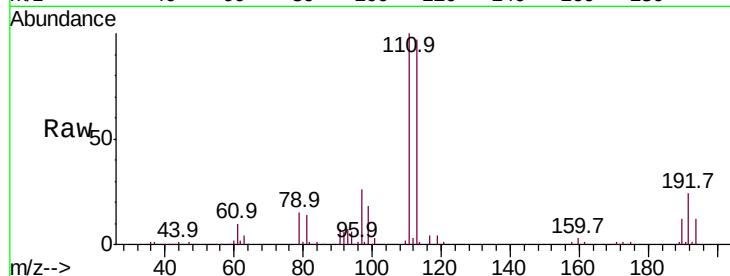
ClientSampleId :

VN0529MBS01

Tot Ion:	113	Resp:	159656
Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	24.5	19.5	29.3

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 18.079 ug/l

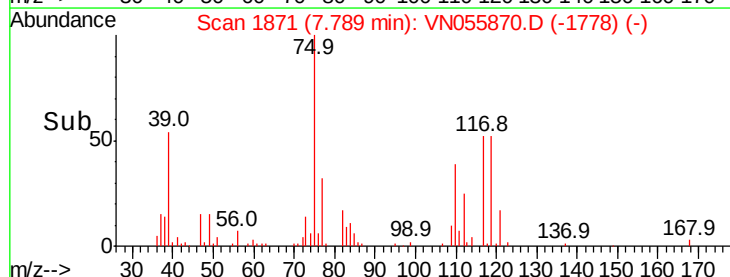
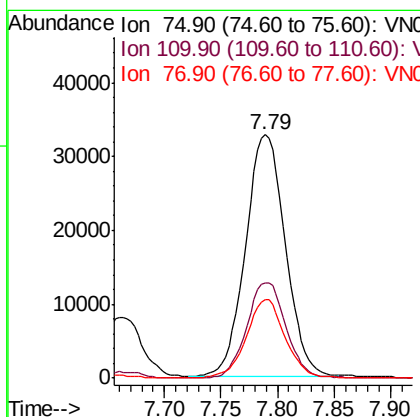
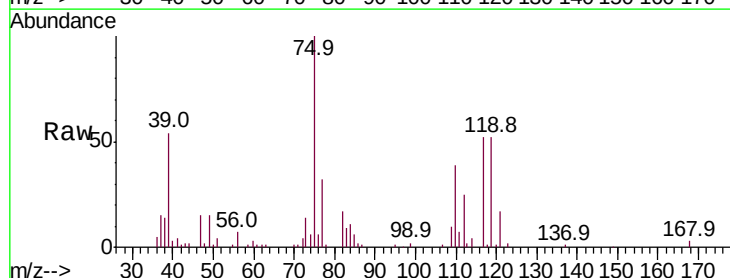
RT: 7.79 min Scan# 1871

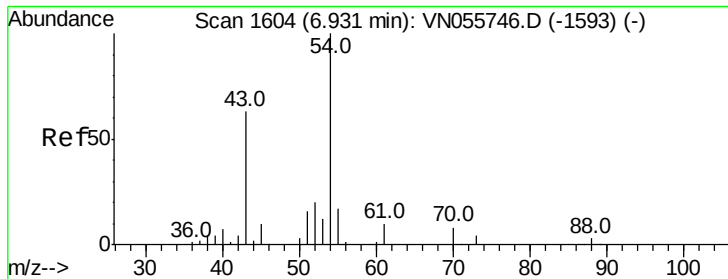
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	75	Resp:	80277
Ion	Ratio	Lower	Upper
75	100		
110	38.7	19.0	57.0
77	31.6	25.1	37.7





#37

Ethyl Acetate

Concen: 20.503 ug/l

RT: 6.93 min Scan# 1605

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

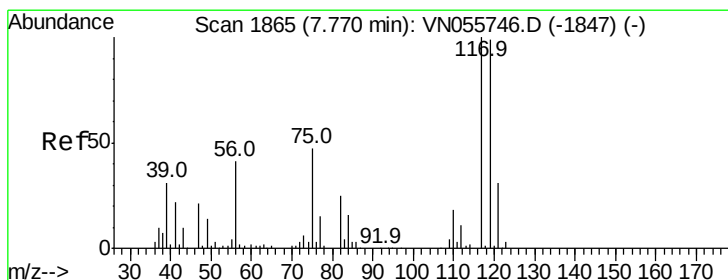
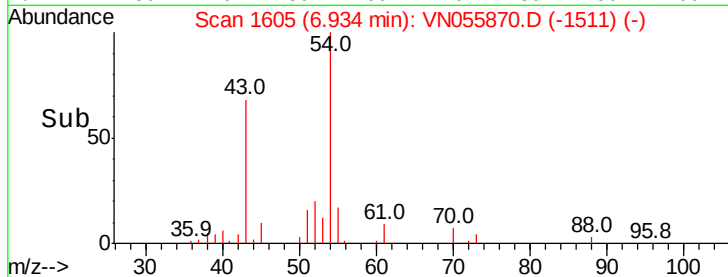
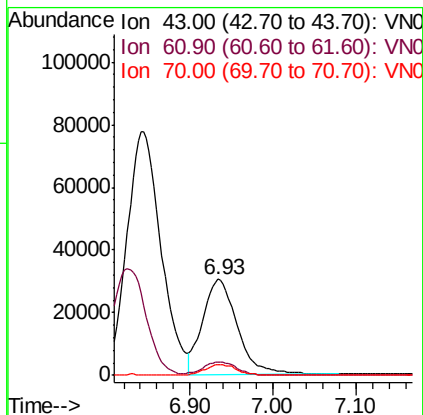
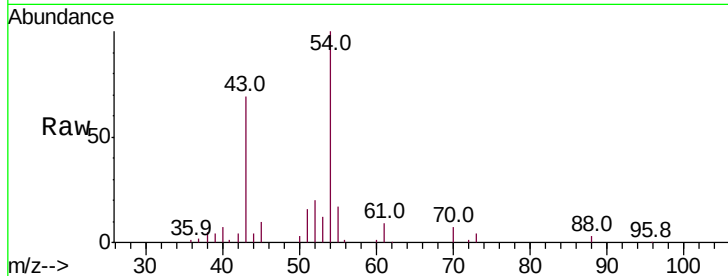
ClientSampleId :

VN0529MBS01

Tot Ion:	43	Resp:	87991
Ion	Ratio	Lower	Upper
43	100		
61	14.2	12.2	18.2
70	10.6	8.9	13.3

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#38

Carbon Tetrachloride

Concen: 17.817 ug/l

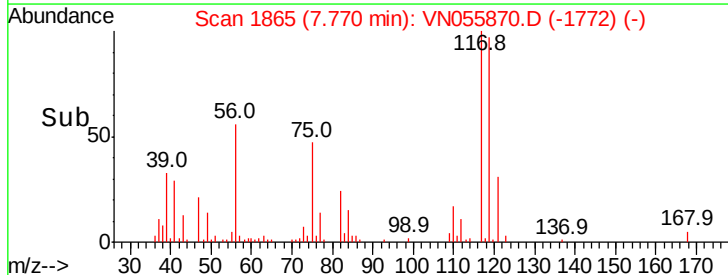
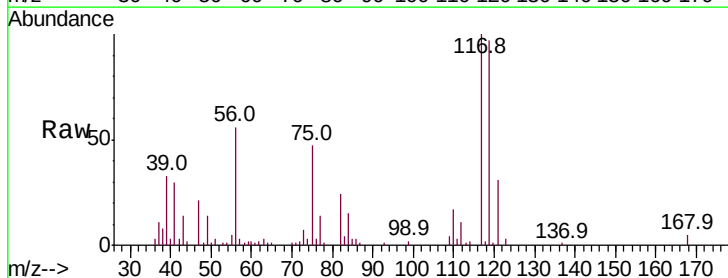
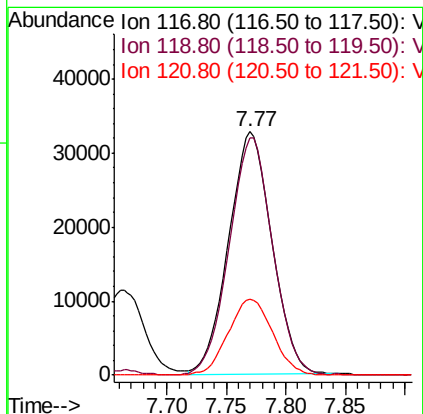
RT: 7.77 min Scan# 1865

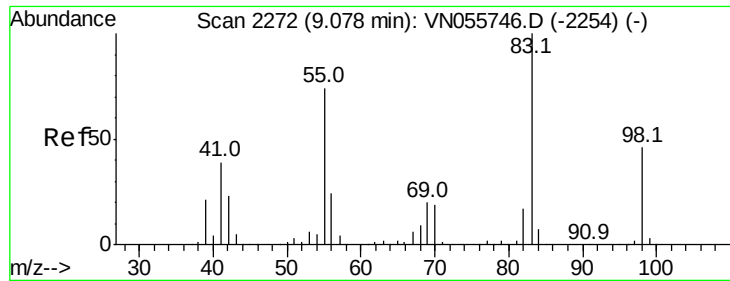
Delta R.T. -0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	117	Resp:	82408
Ion	Ratio	Lower	Upper
117	100		
119	97.4	79.0	118.6
121	31.2	24.7	37.1





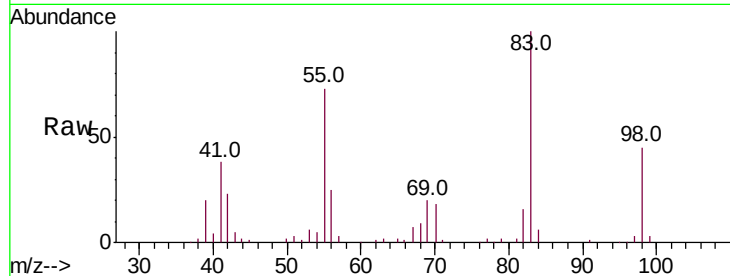
#39
Methylvlcyclohexane
Concen: 18.554 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

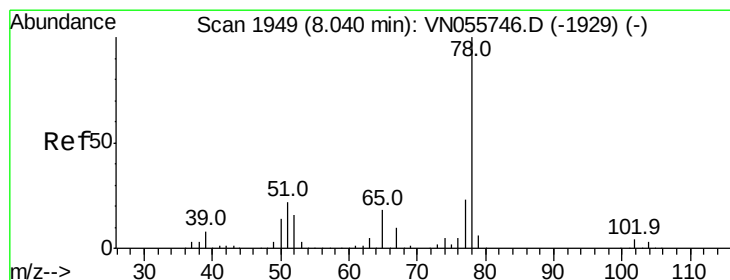
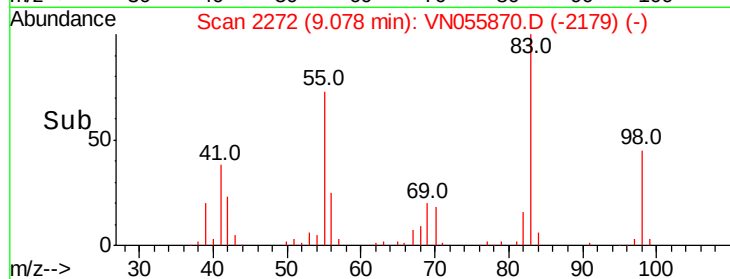
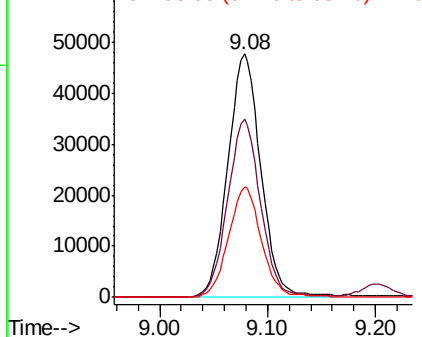
Tot Ion	Ratio	Lower	Upper
83	100		
55	73.4	59.3	88.9
98	45.4	36.6	54.8

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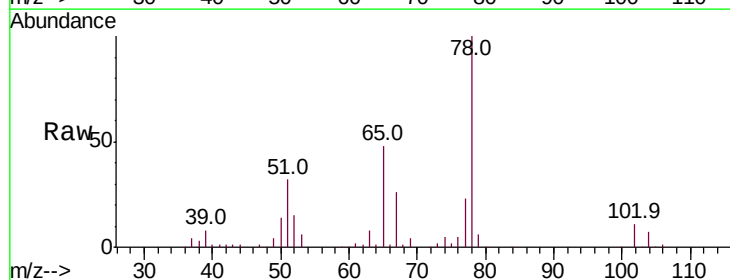


Abundance Ion 83.00 (82.70 to 83.70): VN055870.D (-2179) (-)

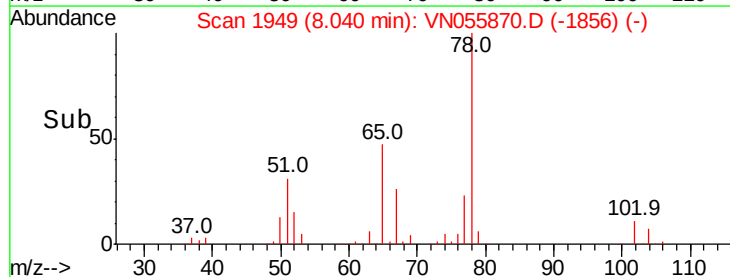
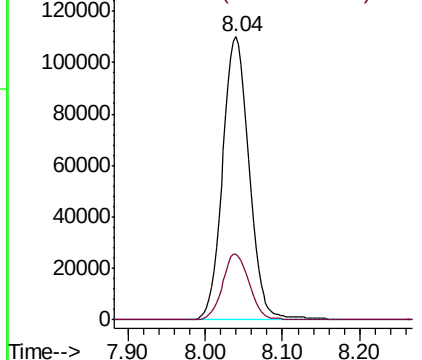


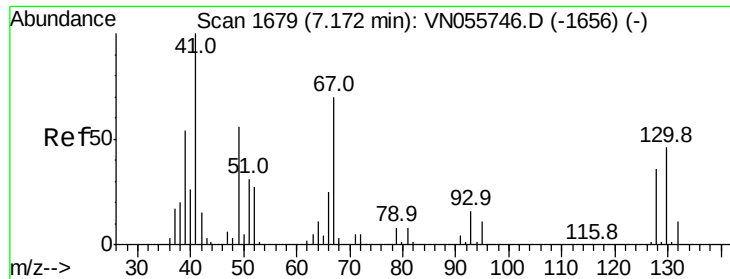
#40
Benzene
Concen: 19.588 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2



Abundance Ion 78.00 (77.70 to 78.70): VN055870.D (-1856) (-)





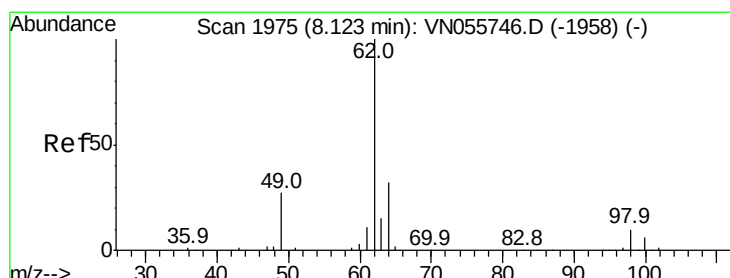
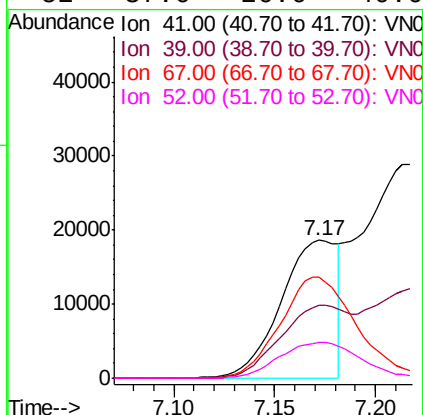
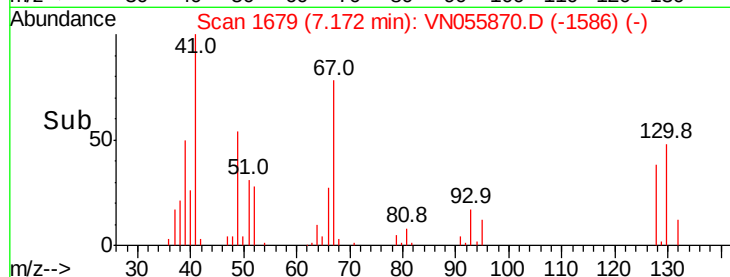
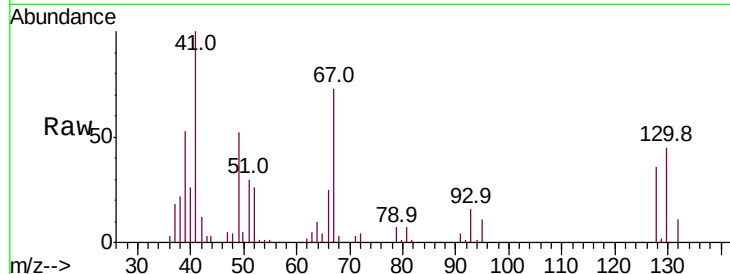
#41
Methacrylonitrile
Concen: 16.717 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	41	Resp	36245
Ion	Ratio	Lower	Upper
41	100		
39	62.4	45.6	68.4
67	100.1	67.7	101.5
52	37.6	26.6	40.0

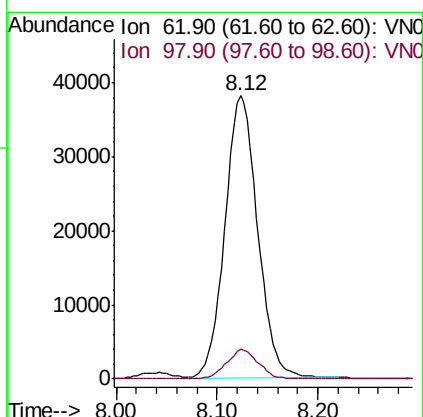
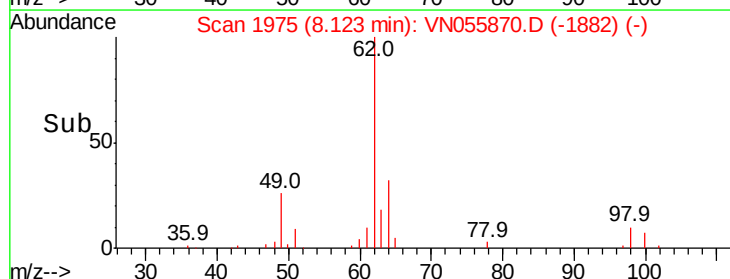
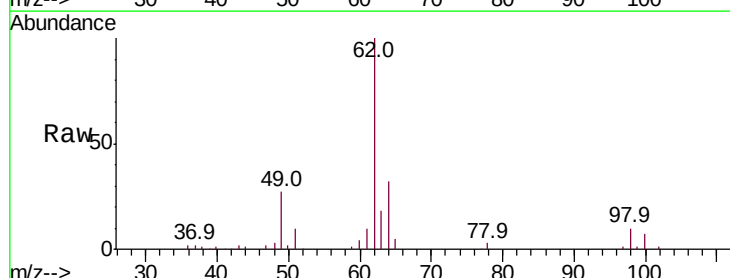
Manual Integrations
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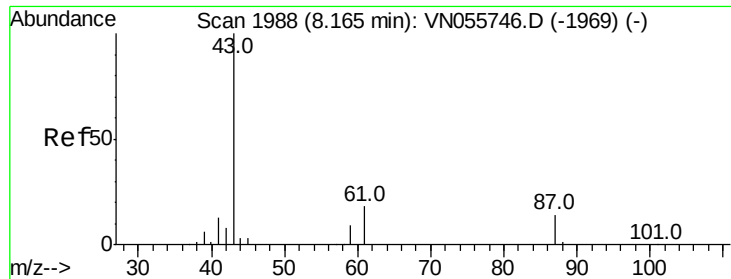
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.728 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	62	Resp	86268
Ion	Ratio	Lower	Upper
62	100		
98	10.0	0.0	20.2





#43

Isopropyl Acetate

Concen: 19.138 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

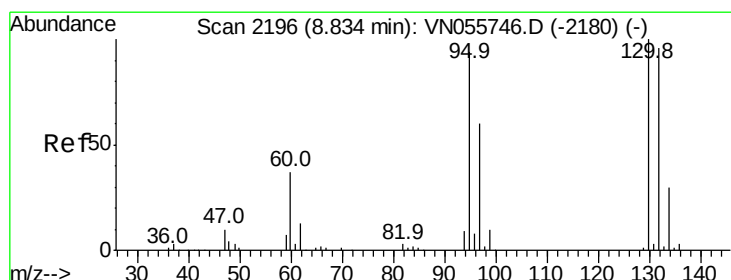
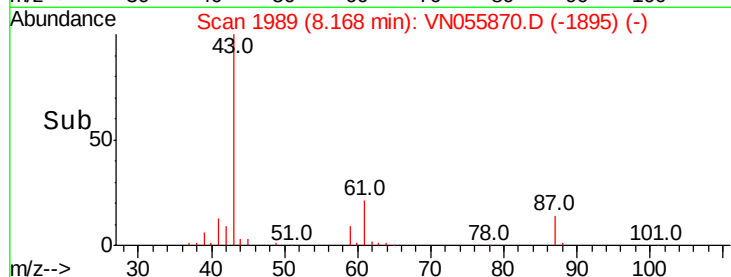
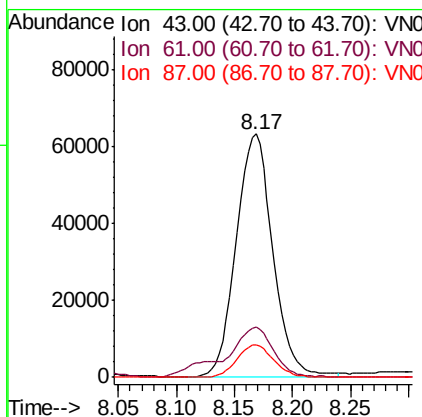
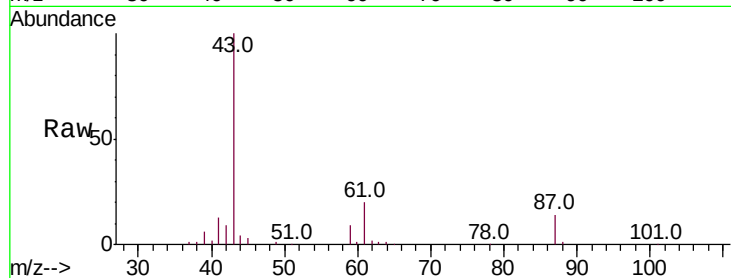
ClientSampleId :

VN0529MBS01

Tot Ion:	43	Resp:	137996
Ion Ratio	Lower	Upper	
43	100		
61	21.4	22.2	33.4#
87	13.6	11.4	17.2

Manual Integrations
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MMDadoda
5/30/2019 9:35:00 AM



#44

Trichloroethene

Concen: 19.643 ug/l

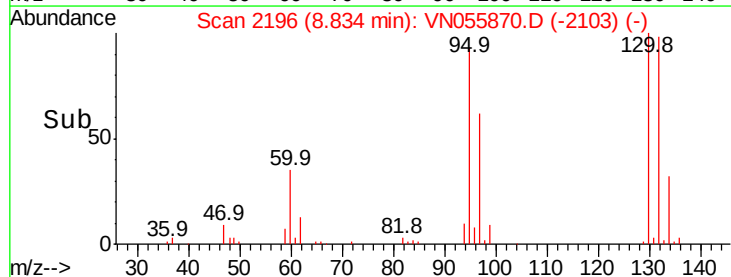
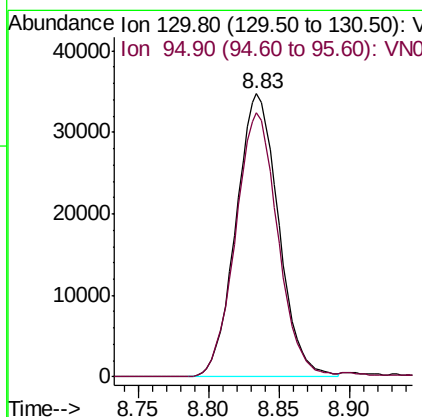
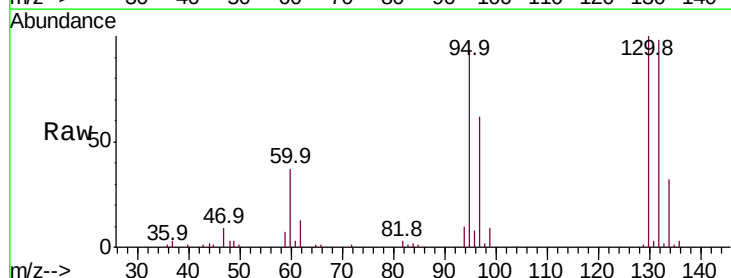
RT: 8.83 min Scan# 2196

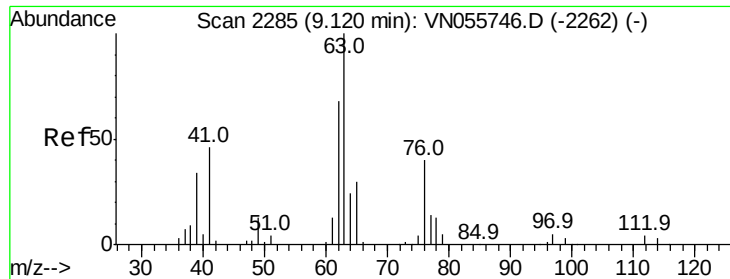
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	130	Resp:	73285
Ion Ratio	Lower	Upper	
130	100		
95	93.1	0.0	188.0





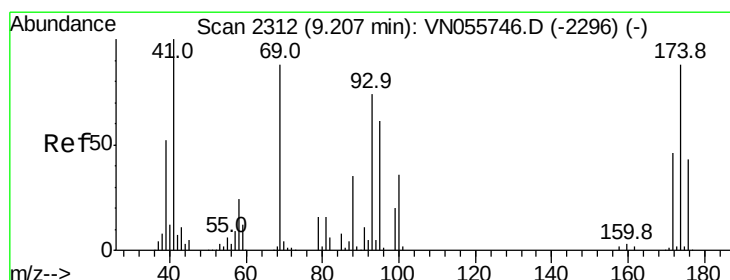
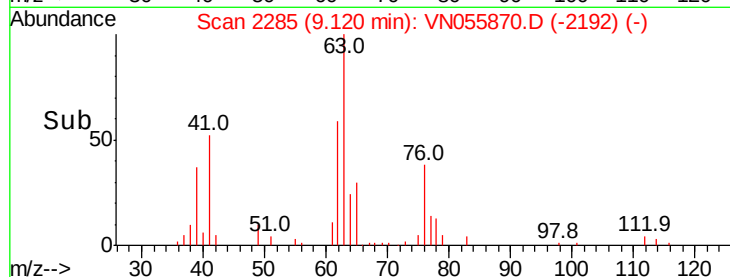
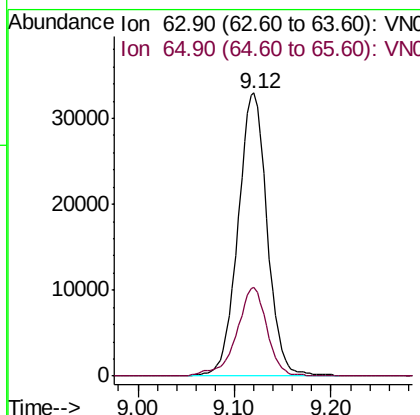
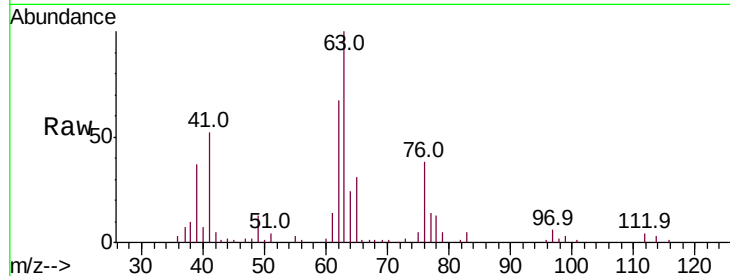
#45
 1,2-Dichloropropane
 Concen: 19.840 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion: 63 Resp: 69174
 Ion Ratio Lower Upper
 63 100
 65 31.5 24.6 36.8

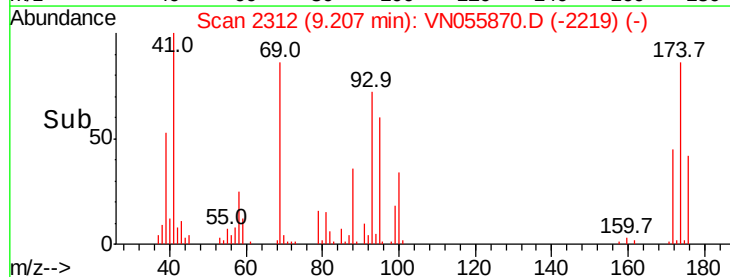
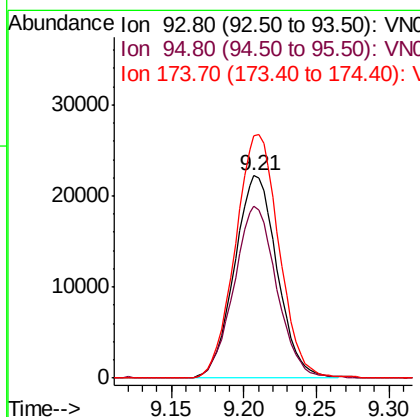
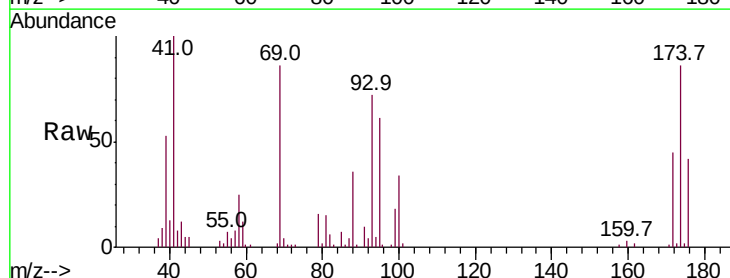
Manual Integrations
 APPROVED

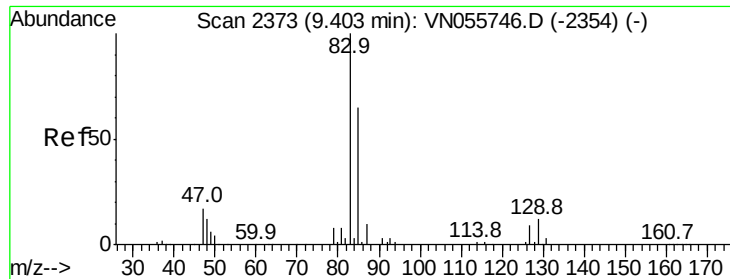
MMDadoda
 5/30/2019 9:35:00 AM



#46
 Dibromomethane
 Concen: 19.911 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion: 93 Resp: 45529
 Ion Ratio Lower Upper
 93 100
 95 84.8 66.7 100.1
 174 122.7 96.4 144.6





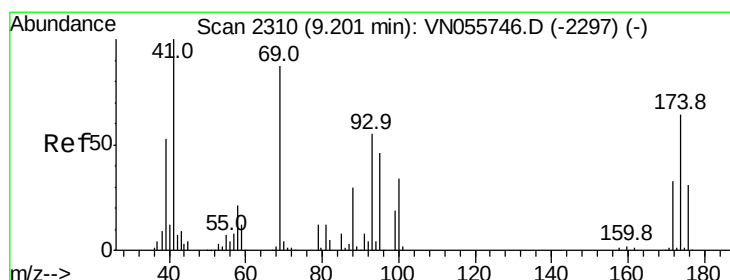
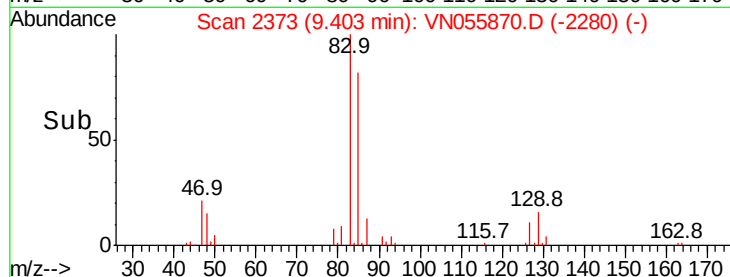
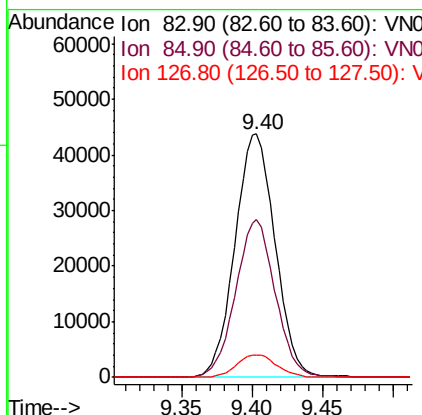
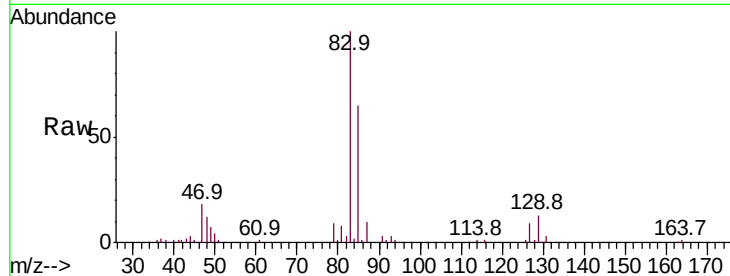
#47
Bromodichloromethane
Concen: 18.600 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	83	Resp	87209
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.2	78.2
127	9.0	7.4	11.0

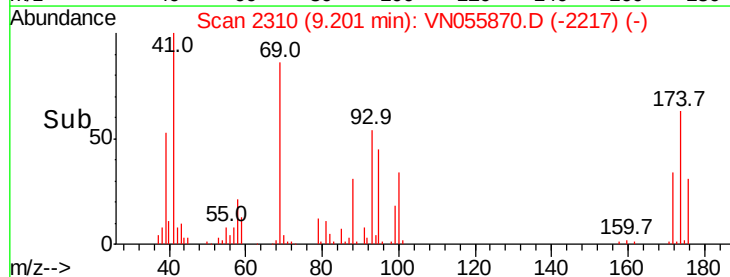
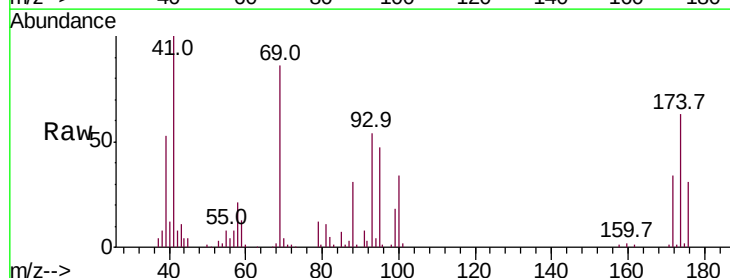
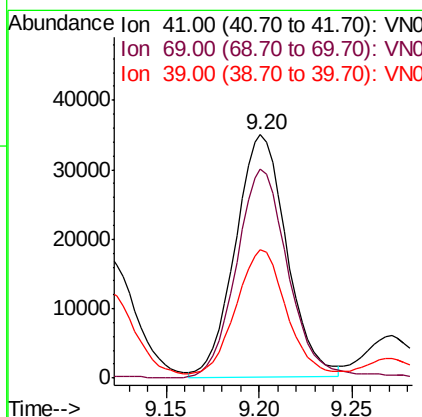
Manual Integrations
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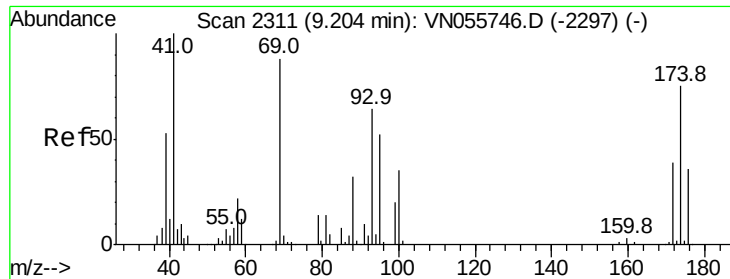
MMDadoda
5/30/2019 9:35:00 AM



#48
Methyl methacrylate
Concen: 20.256 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	41	Resp	67314
Ion	Ratio	Lower	Upper
41	100		
69	88.2	71.0	106.6
39	52.3	44.2	66.2





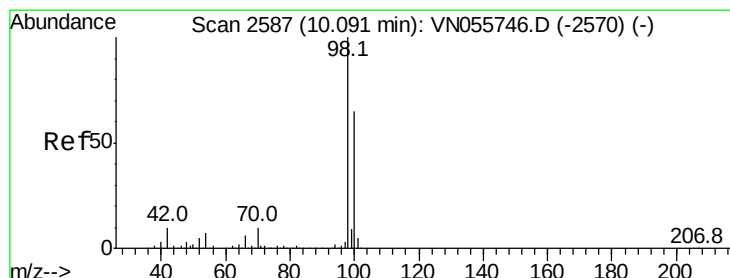
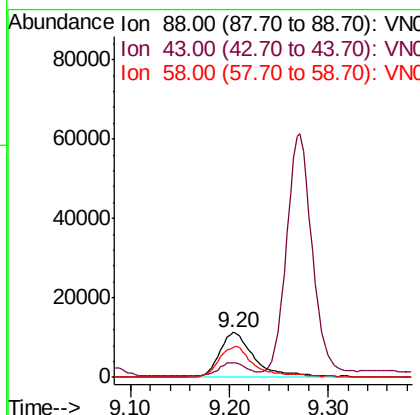
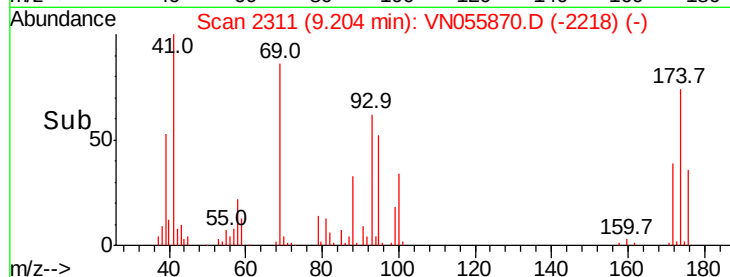
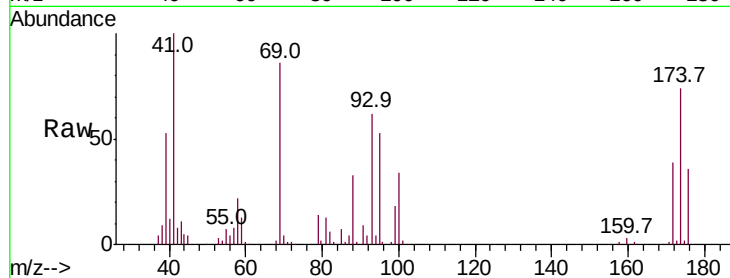
#49
 1,4-Dioxane
 Concen: 410.997 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	88	Resp	28383
Ion	Ratio	Lower	Upper
88	100		
43	24.9	20.5	30.7
58	69.1	55.8	83.6

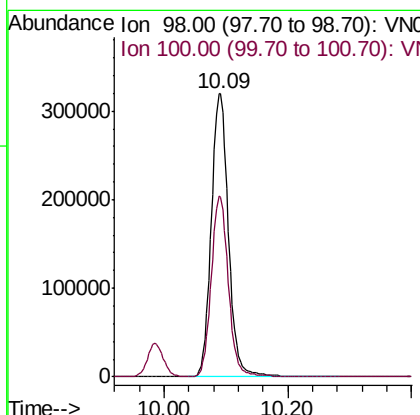
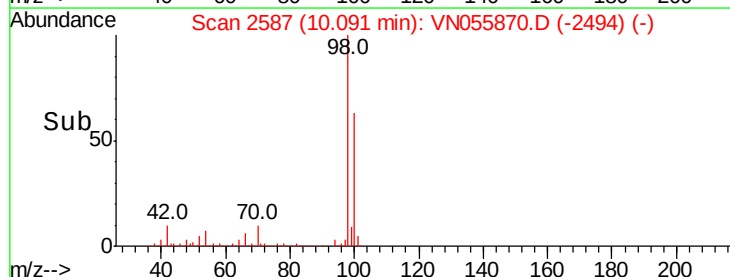
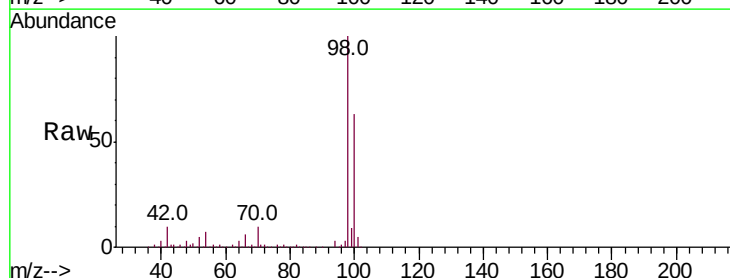
Manual Integrations
 APPROVED

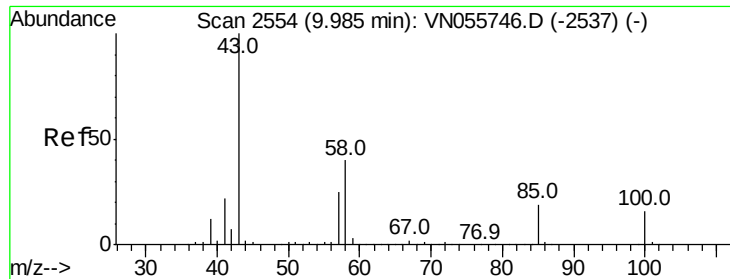
MMDadoda
 5/30/2019 9:35:00 AM



#50
 Toluene-d8
 Concen: 49.758 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	98	Resp	614868
Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 100.584 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampled :

VN0529MBS01

Tot Ion: 43 Resp: 428347

Ion Ratio Lower Upper

43 100

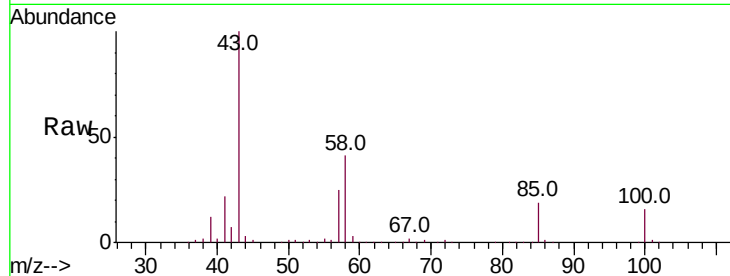
58 40.3 32.1 48.1

Manual Integrations

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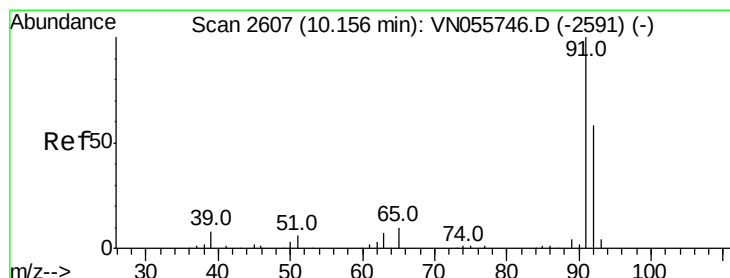
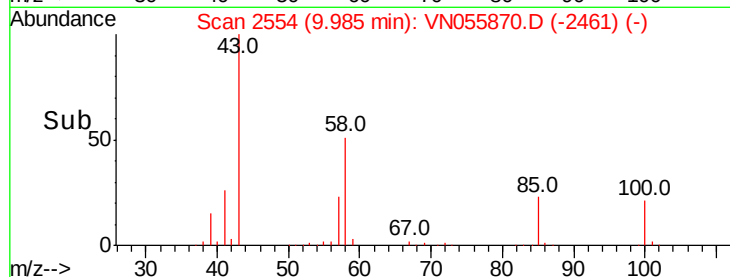
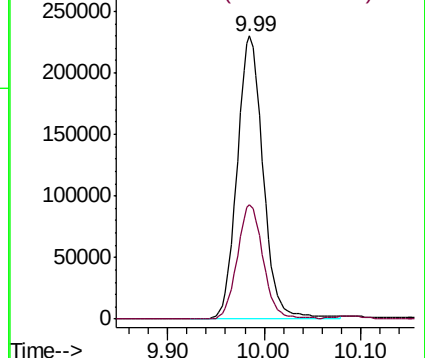
MMDadoda

5/30/2019 9:35:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.854 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055870.D

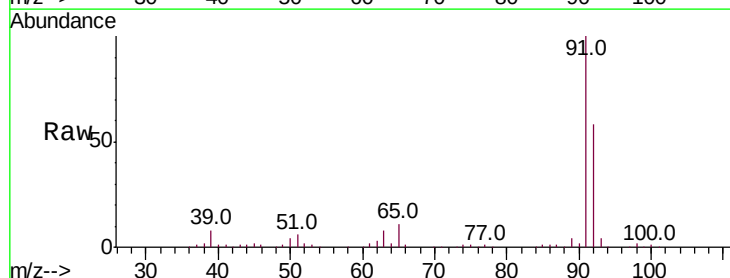
Acq: 29 May 2019 12:03

Tgt Ion: 92 Resp: 167106

Ion Ratio Lower Upper

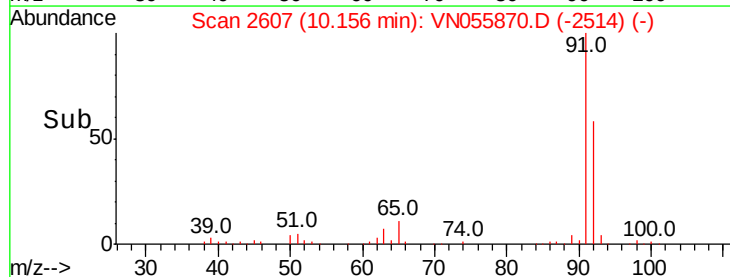
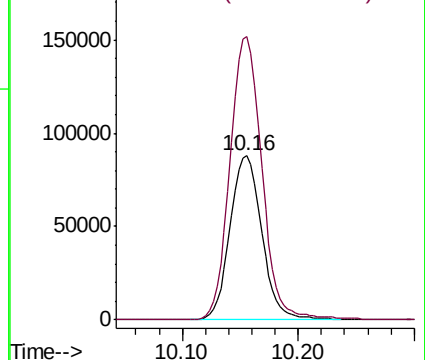
92 100

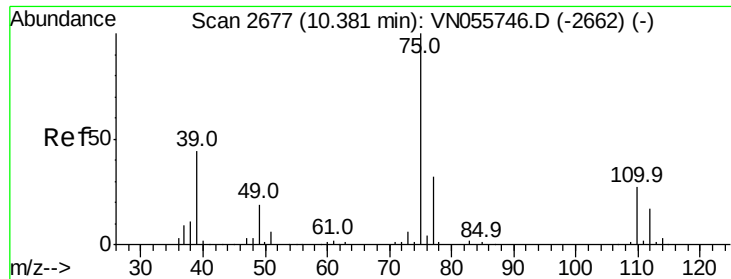
91 173.8 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





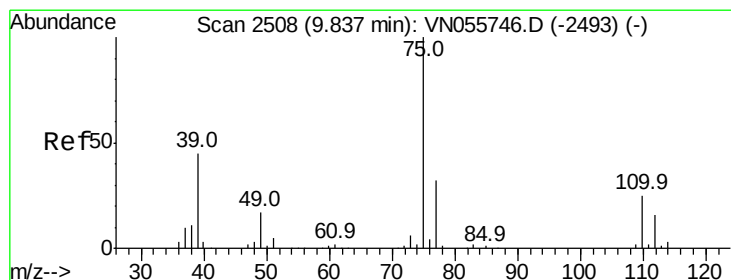
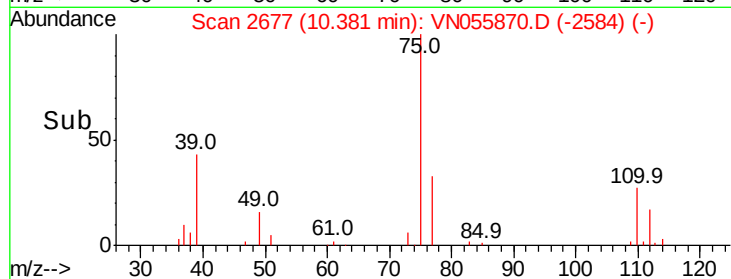
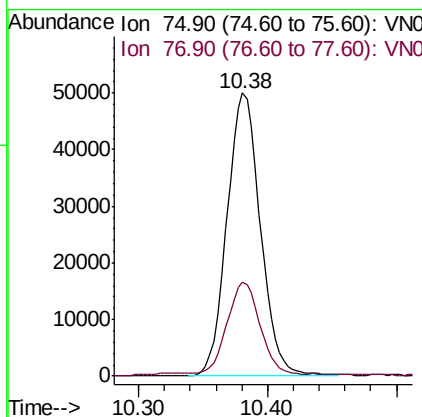
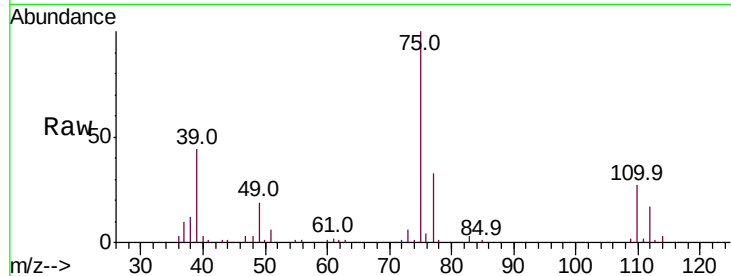
#53
 t-1,3-Dichloropropene
 Concen: 17.977 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampled :
 VN0529MBS01

Tot Ion: 75 Resp: 89970
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.8 38.6

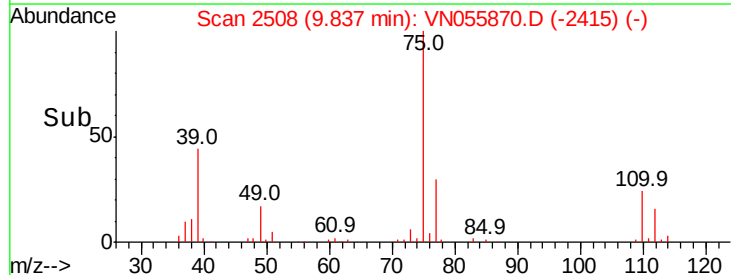
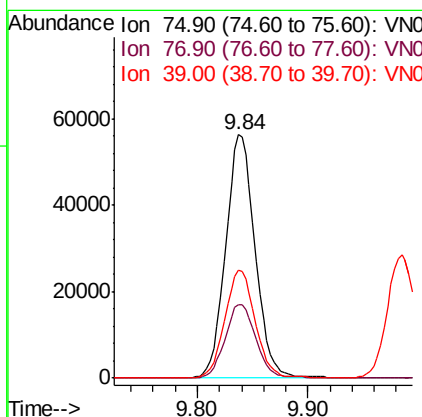
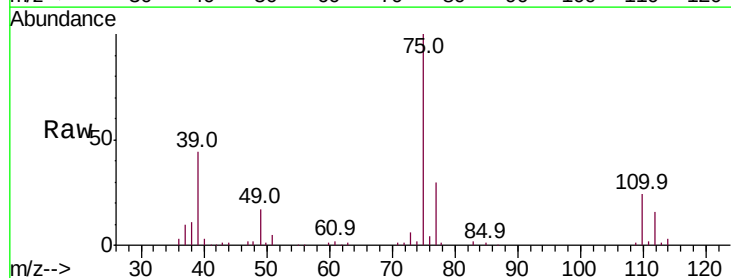
Manual Integrations
 APPROVED

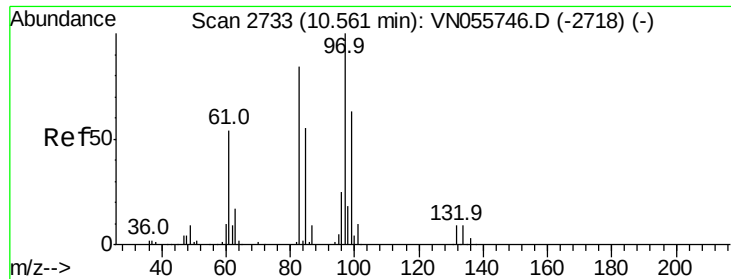
MMDadoda
 5/30/2019 9:35:00 AM



#54
 cis-1,3-Dichloropropene
 Concen: 18.814 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion: 75 Resp: 104311
 Ion Ratio Lower Upper
 75 100
 77 30.4 25.4 38.0
 39 44.2 36.3 54.5





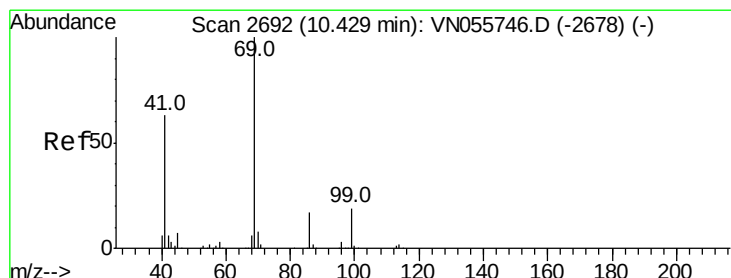
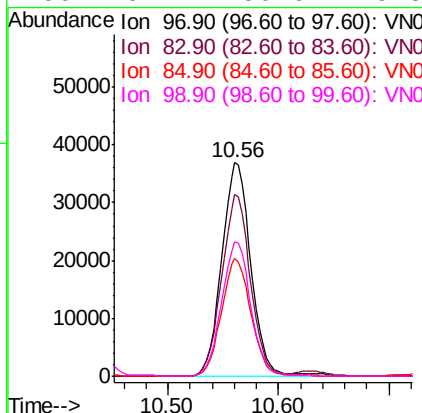
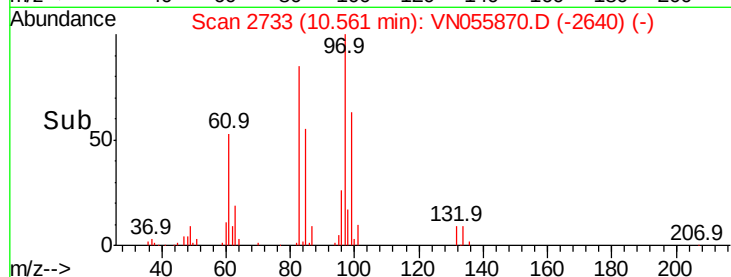
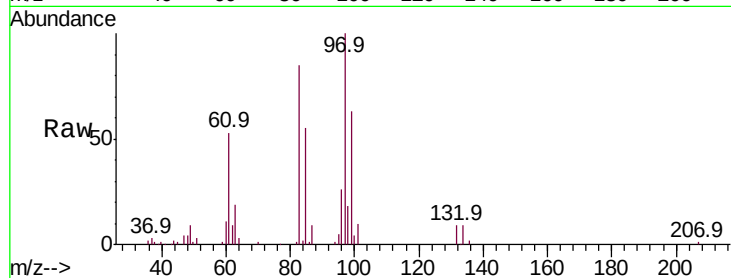
#55
 1,1,2-Trichloroethane
 Concen: 20.055 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. -0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion:	97	Resp:	67621
Ion	Ratio	Lower	Upper
97	100		
83	84.9	67.0	100.6
85	55.3	44.0	66.0
99	62.7	50.6	75.8

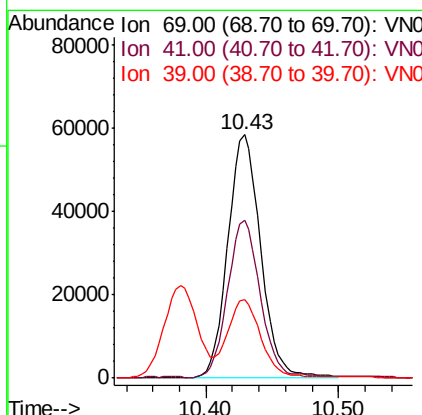
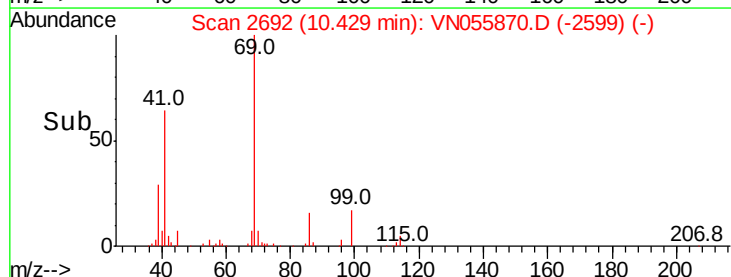
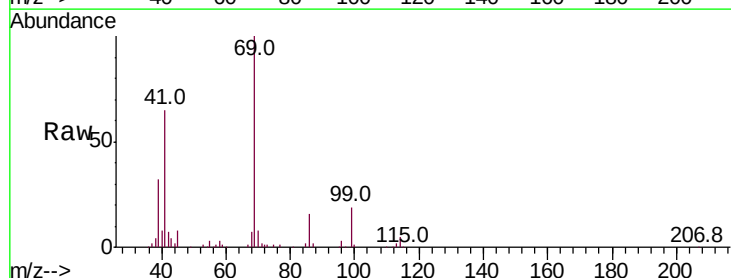
Manual Integrations
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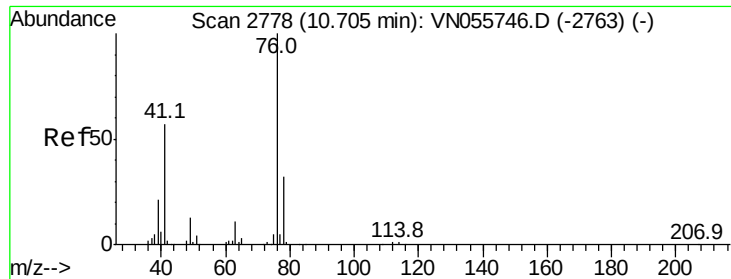
MMDadoda
 5/30/2019 9:35:00 AM



#56
 Ethyl methacrylate
 Concen: 19.404 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion:	69	Resp:	101115
Ion	Ratio	Lower	Upper
69	100		
41	63.6	49.7	74.5
39	31.8	24.7	37.1





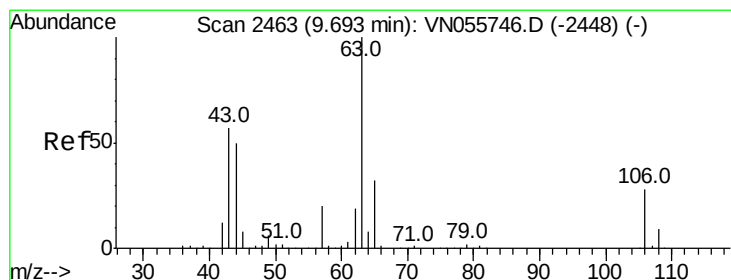
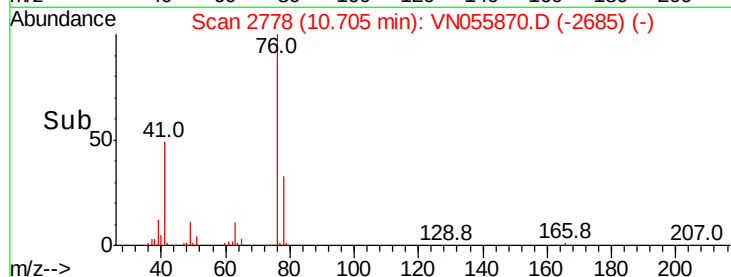
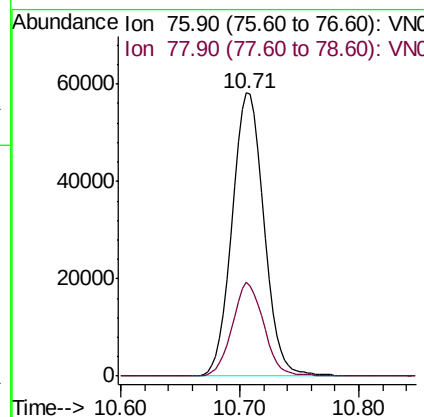
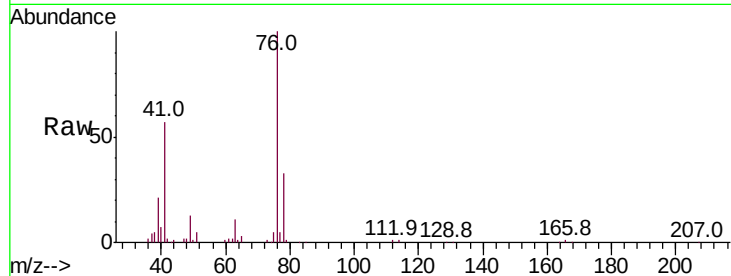
#57
 1,3-Dichloropropane
 Concen: 19.780 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.8	38.6

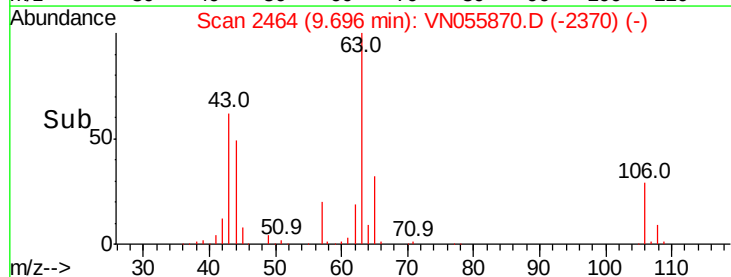
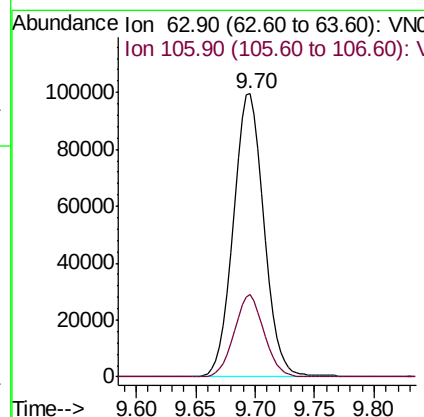
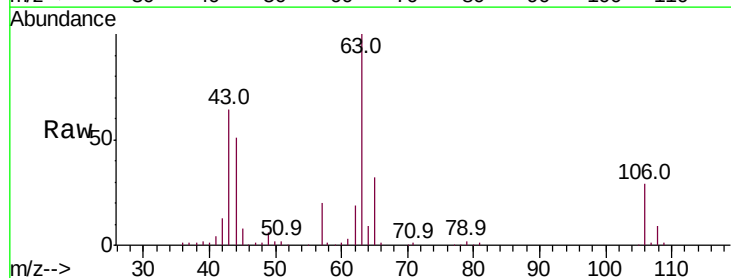
Manual Integrations
 APPROVED

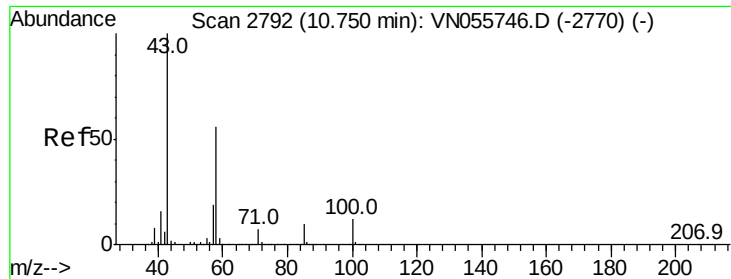
MMDadoda
 5/30/2019 9:35:00 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 89.320 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.2	22.7	34.1





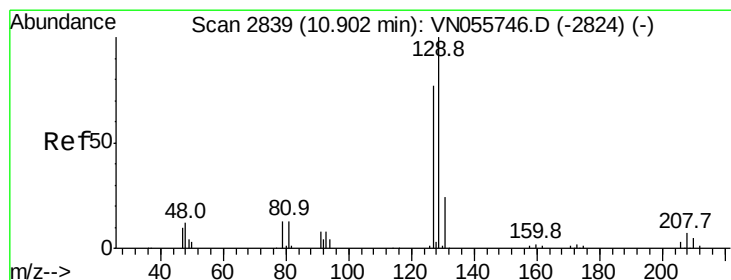
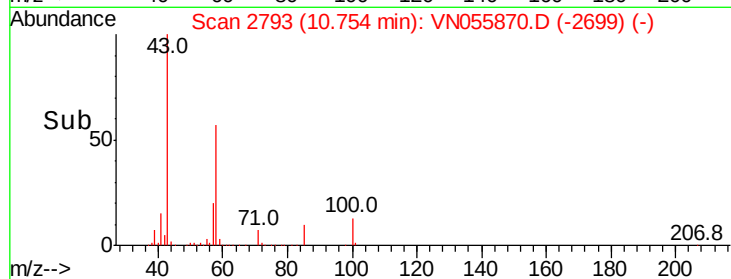
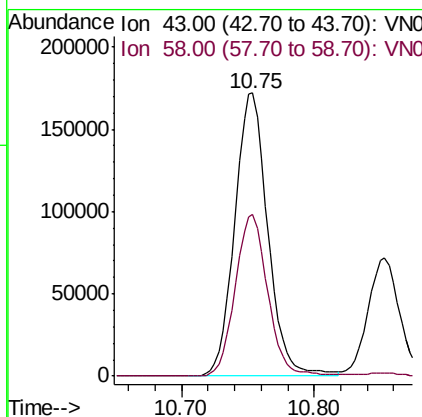
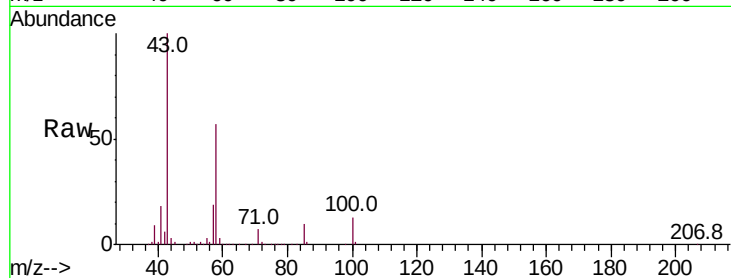
#59
2-Hexanone
Concen: 98.401 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.7	28.2	84.7

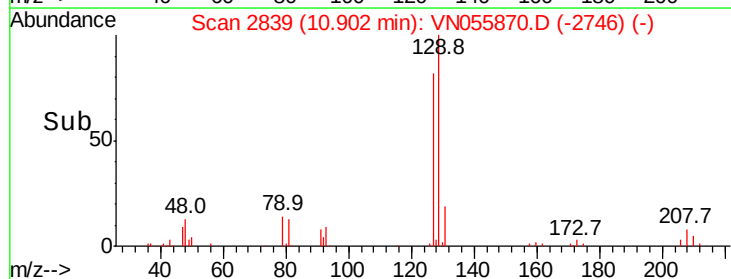
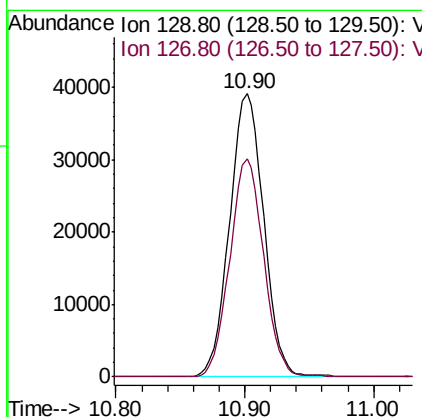
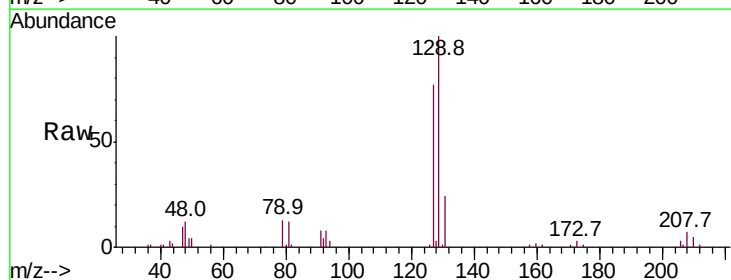
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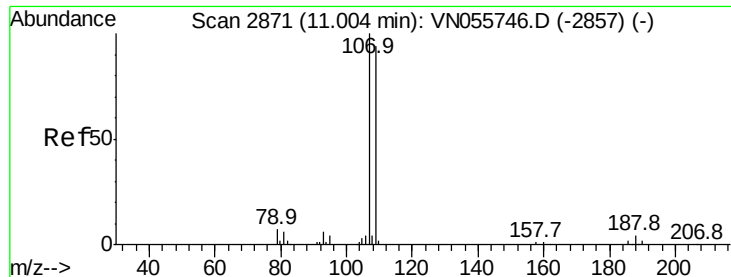
MMDadoda
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#60
Dibromochloromethane
Concen: 18.331 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.1	38.1	114.3





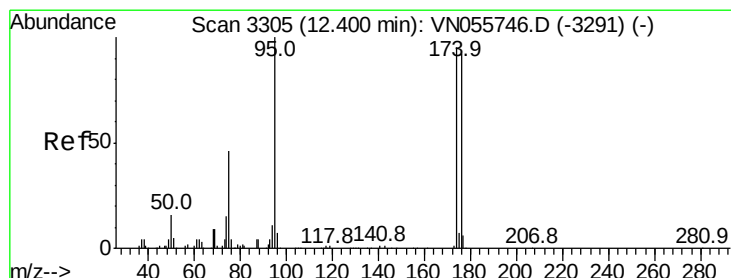
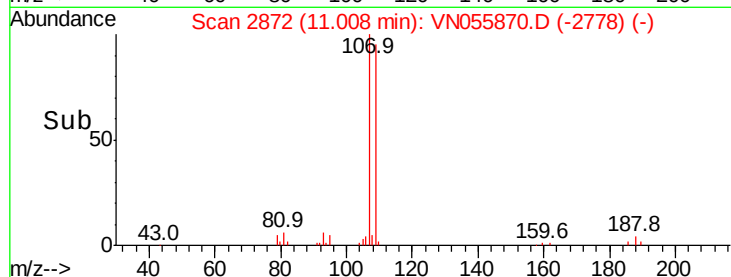
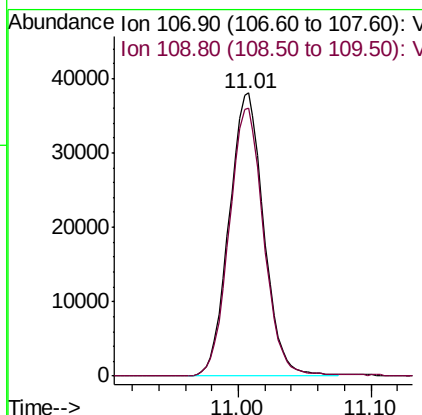
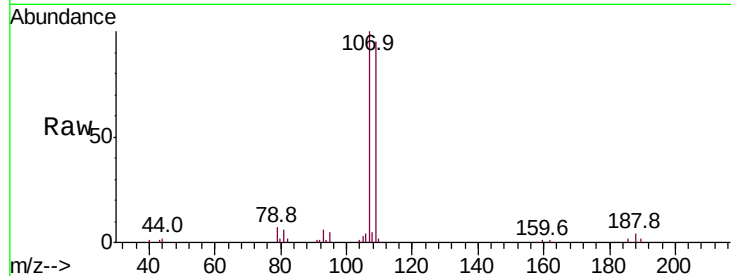
#61
 1,2-Dibromoethane
 Concen: 19.730 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	74.8	112.2

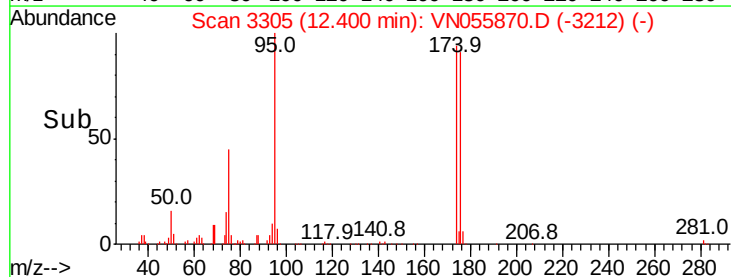
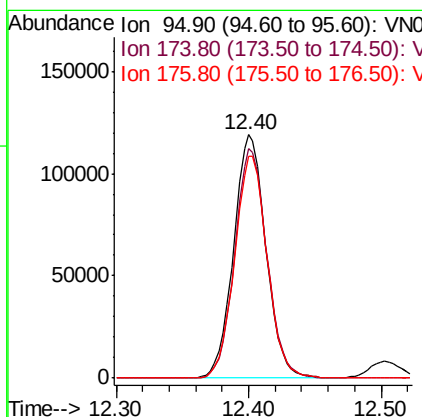
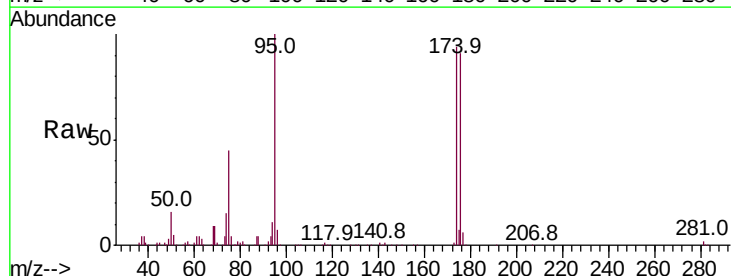
Manual Integrations
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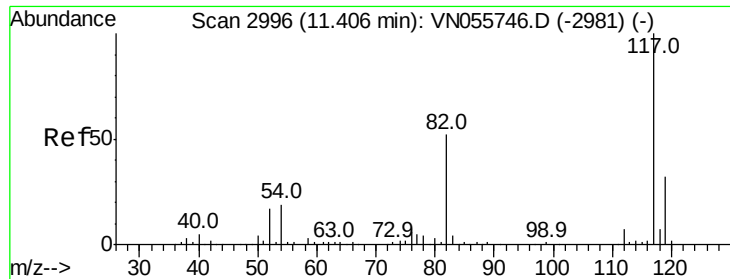
MMDadoda
 5/30/2019 9:35:00 AM



#62
 4-Bromofluorobenzene
 Concen: 47.398 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.1	0.0	191.0
176	92.0	0.0	185.2





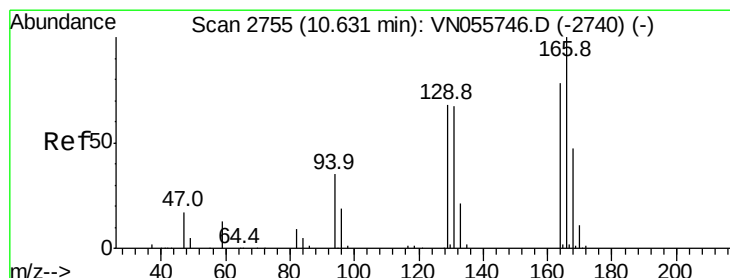
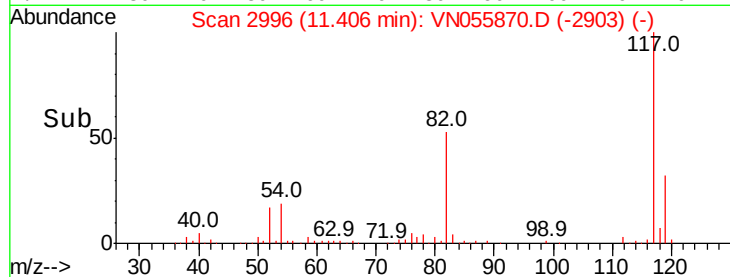
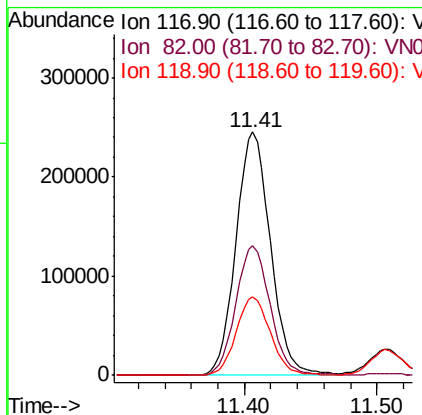
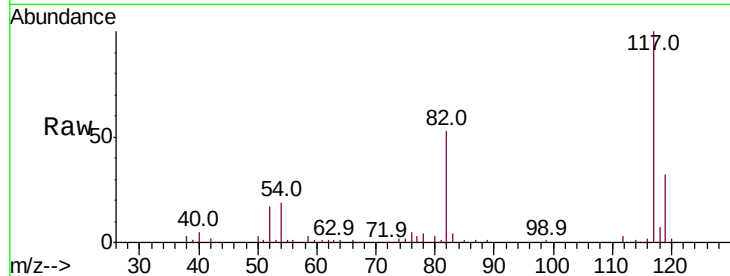
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampled :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.8	62.8
119	32.1	25.4	38.0

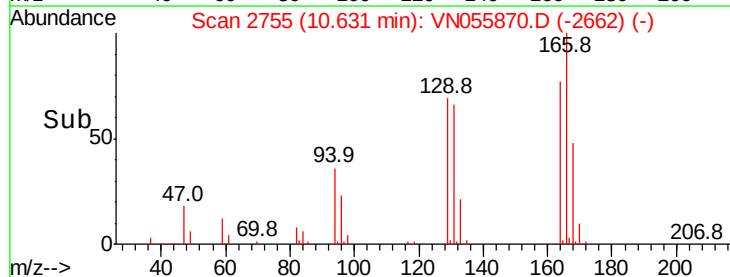
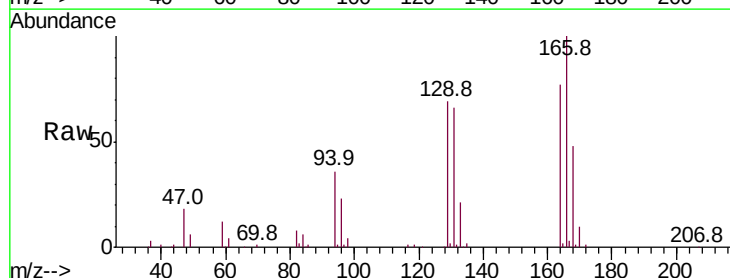
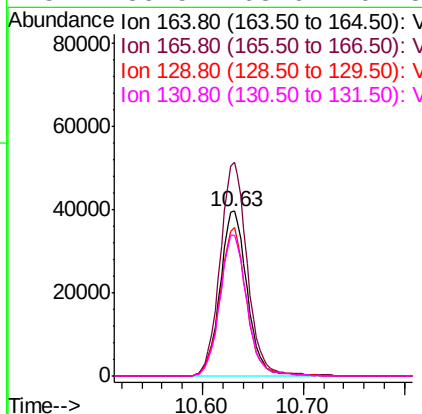
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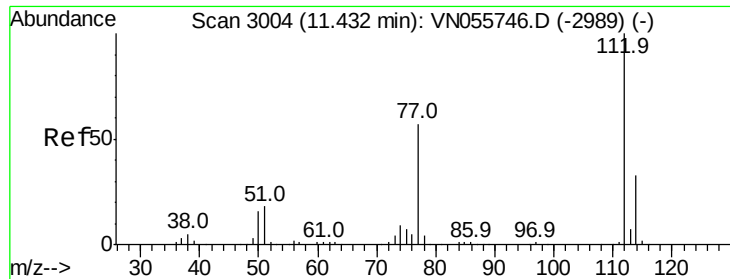
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#64
Tetrachloroethene
Concen: 19.837 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.7	103.0	154.6
129	89.9	70.6	105.8
131	85.5	68.6	102.8





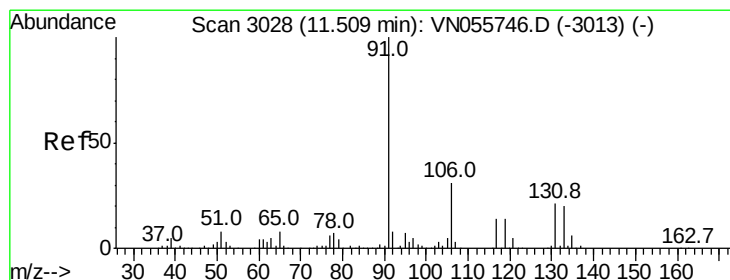
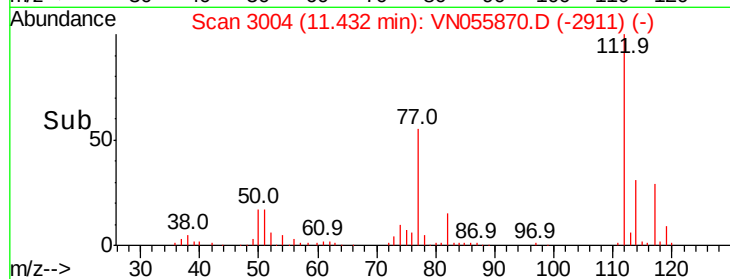
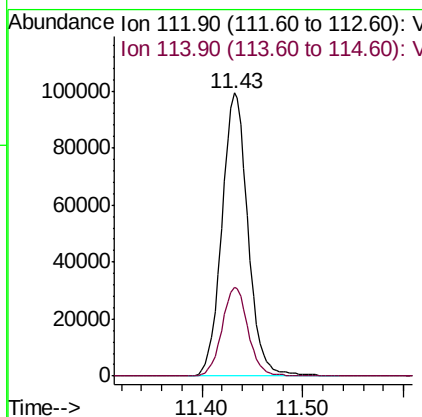
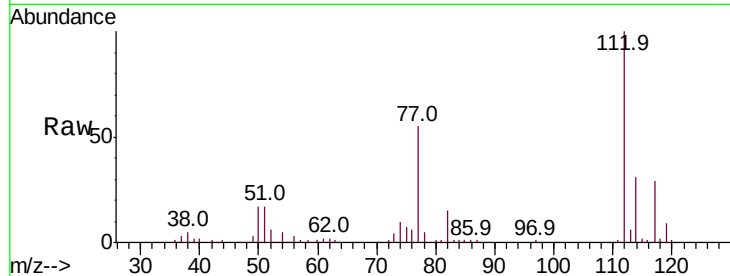
#65
Chlorobenzene
Concen: 20.167 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampled :
VN0529MBS01

Tot Ion:112 Resp: 179423
Ion Ratio Lower Upper
112 100
114 31.2 26.2 39.4

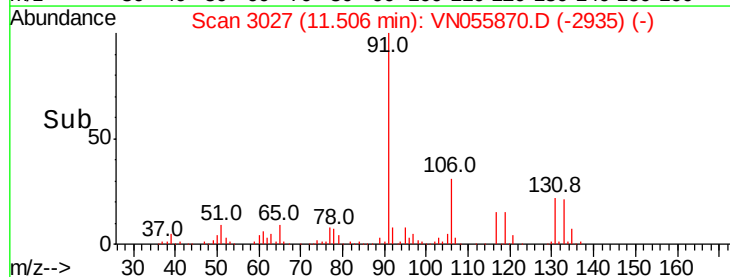
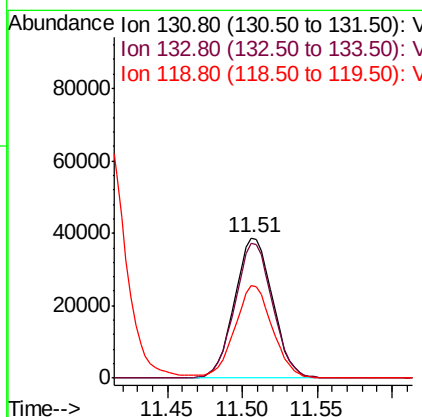
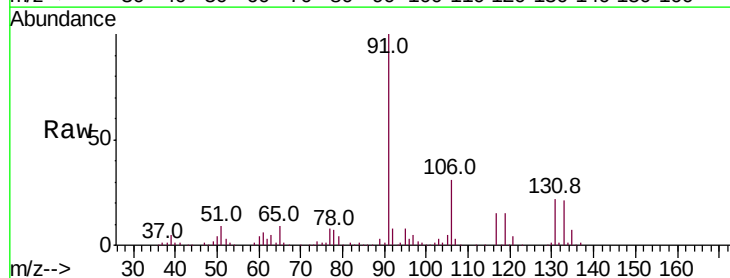
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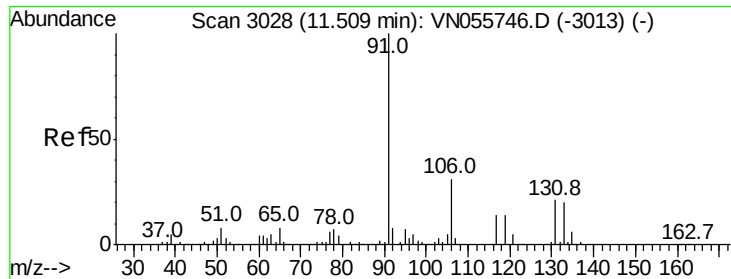
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.356 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion:131 Resp: 68683
Ion Ratio Lower Upper
131 100
133 95.5 48.0 144.0
119 65.4 33.1 99.5





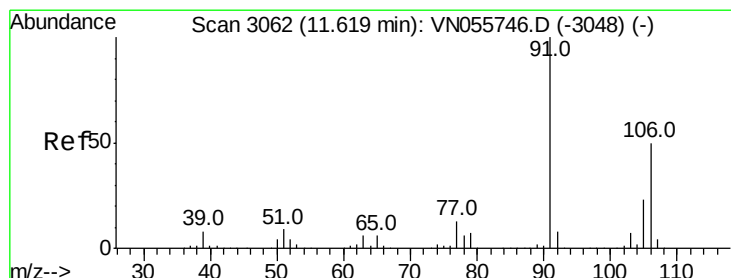
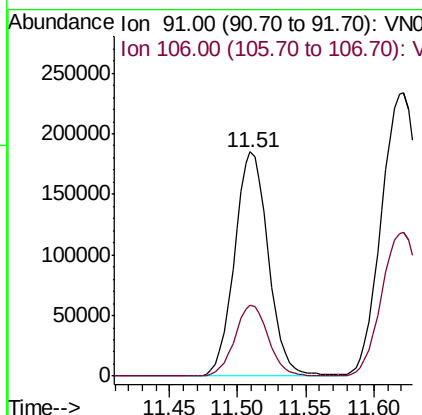
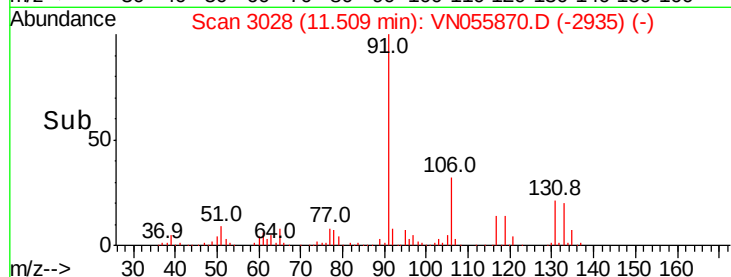
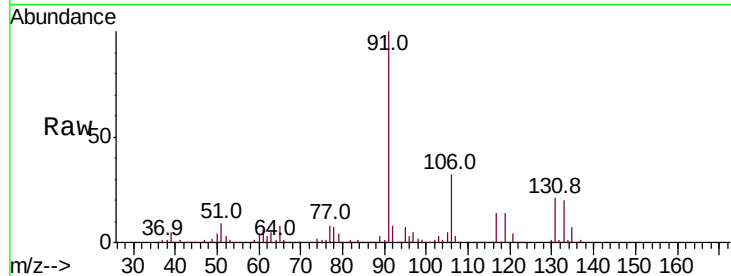
#67
Ethyl Benzene
Concen: 19.958 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampled :
VN0529MBS01

Tot Ion: 91 Resp: 318426
Ion Ratio Lower Upper
91 100
106 31.7 25.1 37.7

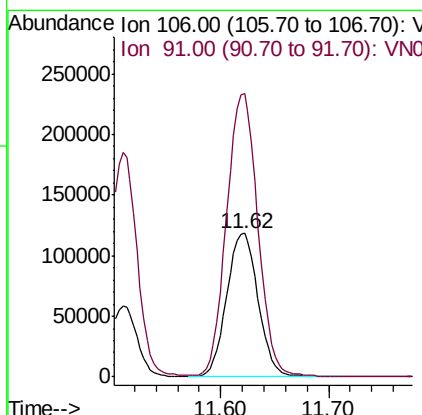
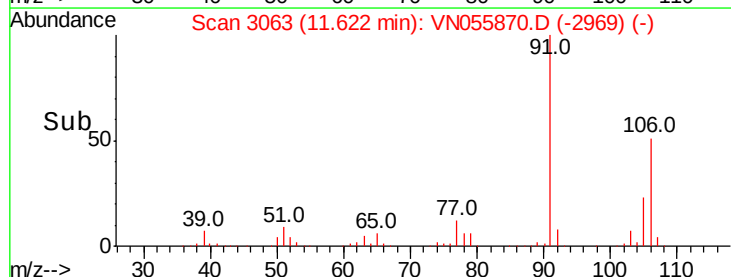
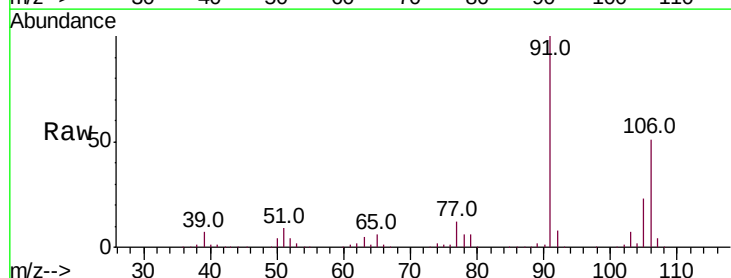
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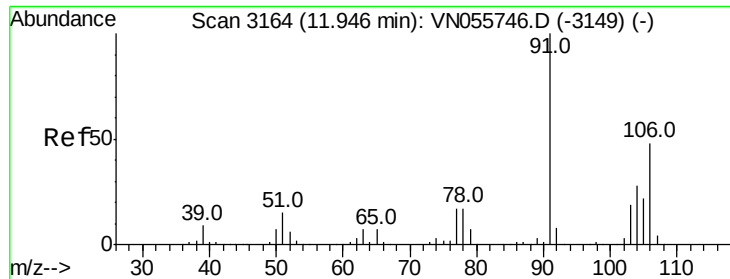
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5/30/2019 9:35:00 AM



#68
m/p-Xylenes
Concen: 39.810 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion: 106 Resp: 240123
Ion Ratio Lower Upper
106 100
91 196.7 159.3 238.9





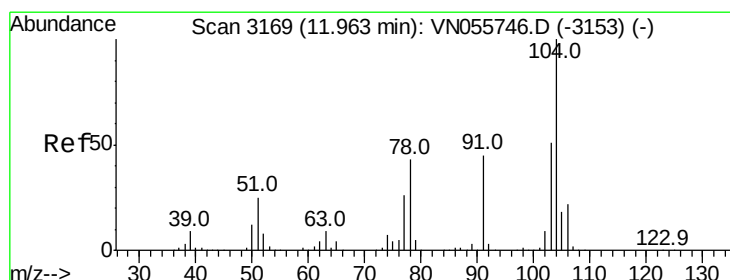
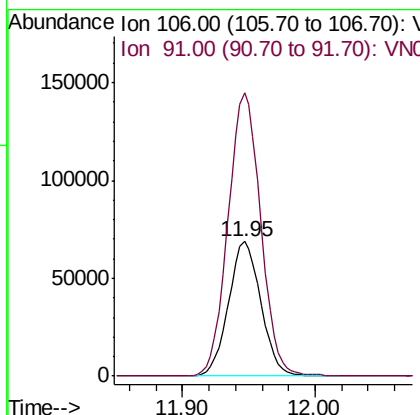
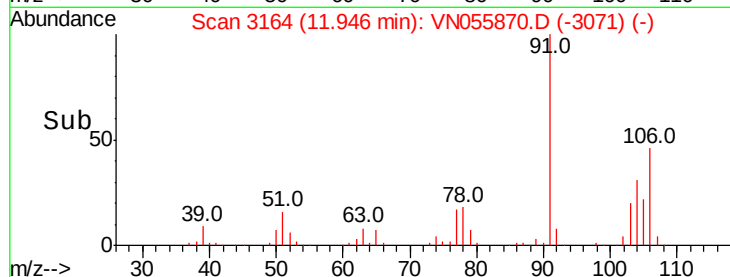
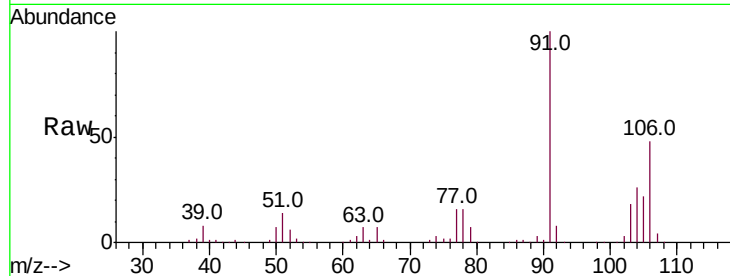
#69
o-Xylene
Concen: 19.532 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion:106 Resp: 116886
Ion Ratio Lower Upper
106 100
91 212.0 104.7 314.1

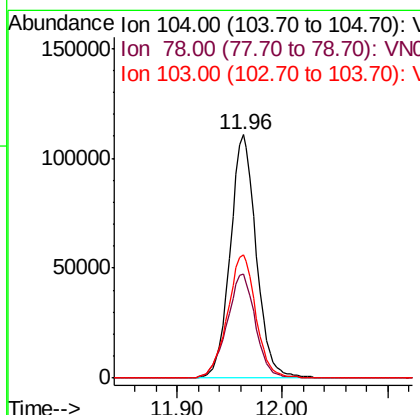
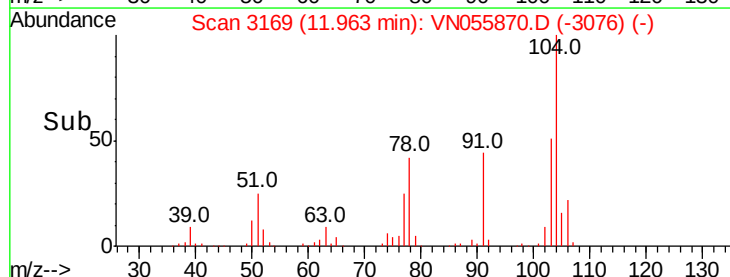
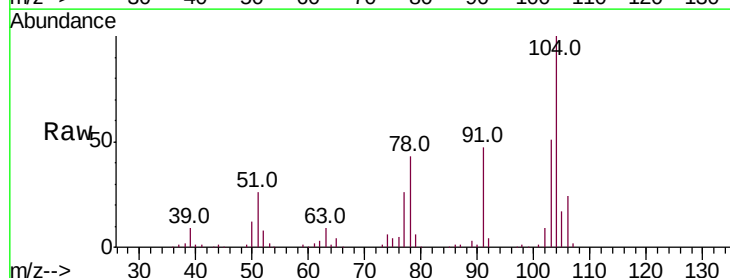
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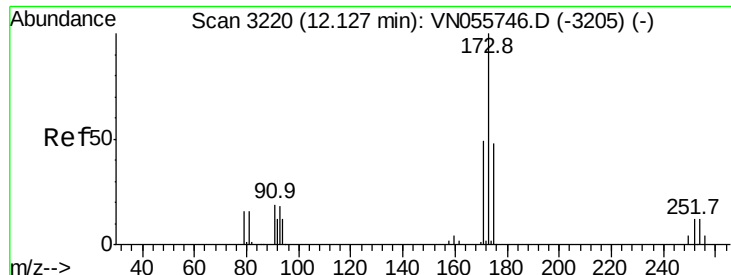
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#70
Styrene
Concen: 19.494 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion:104 Resp: 188915
Ion Ratio Lower Upper
104 100
78 47.0 37.8 56.6
103 55.2 44.2 66.2





#71

Bromoform

Concen: 16.841 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion:173 Resp: 50974

Ion Ratio Lower Upper

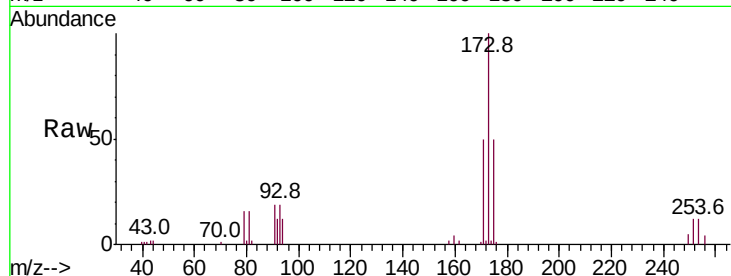
173 100

175 49.3 24.3 72.8

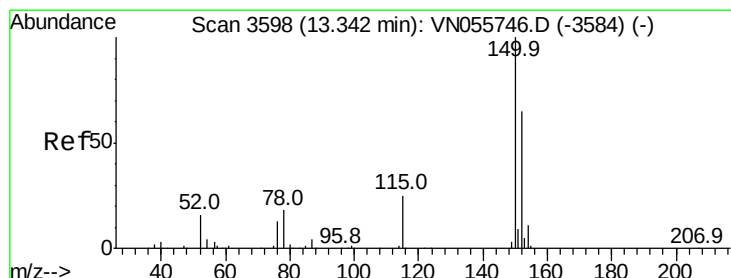
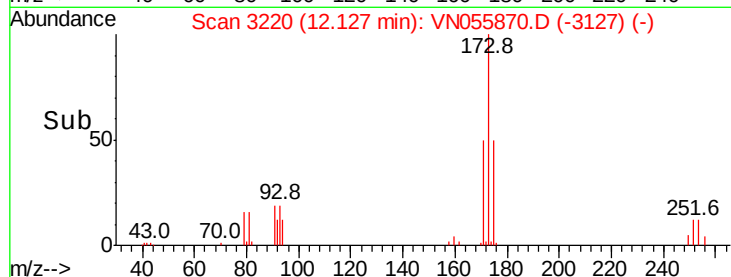
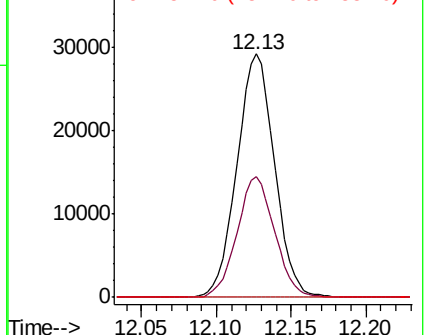
254 0.0 0.0 0.0

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

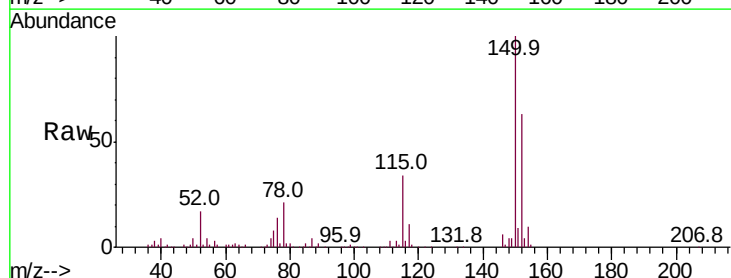
Tgt Ion:152 Resp: 182797

Ion Ratio Lower Upper

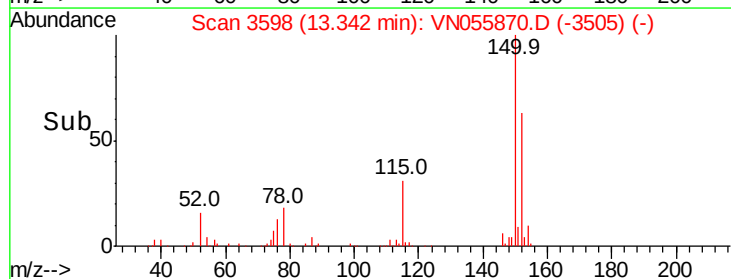
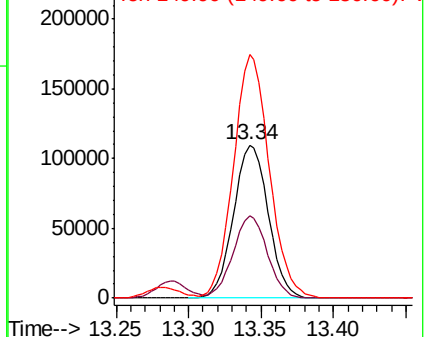
152 100

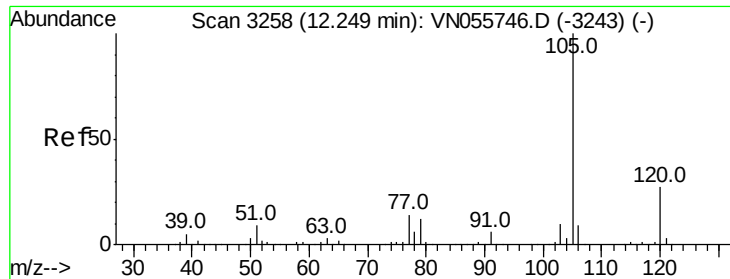
115 53.3 27.0 81.0

150 163.7 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 22.217 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055870.D

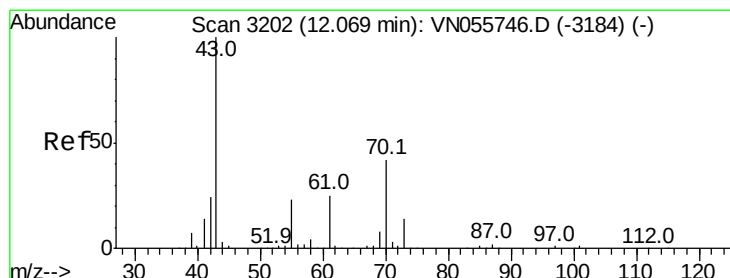
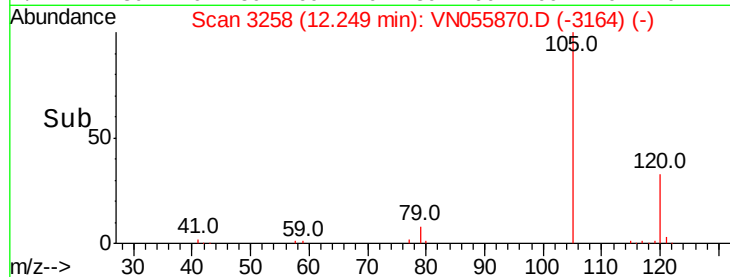
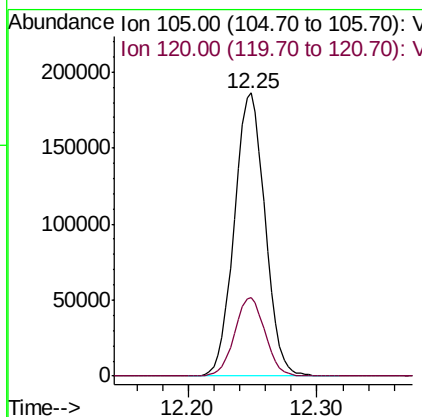
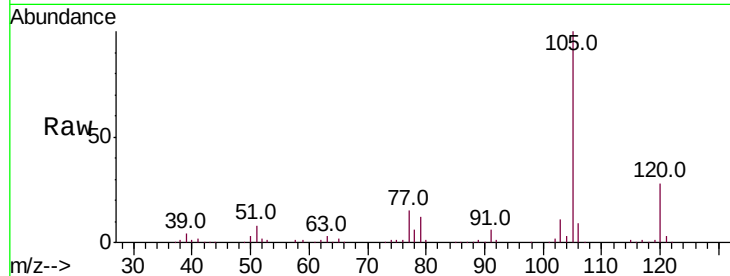
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.6	40.7

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#74

N-ethyl acetate

Concen: 20.813 ug/l

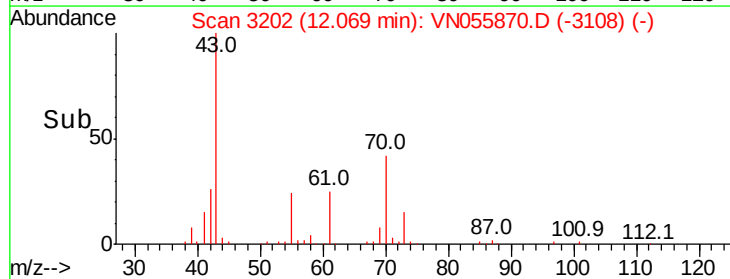
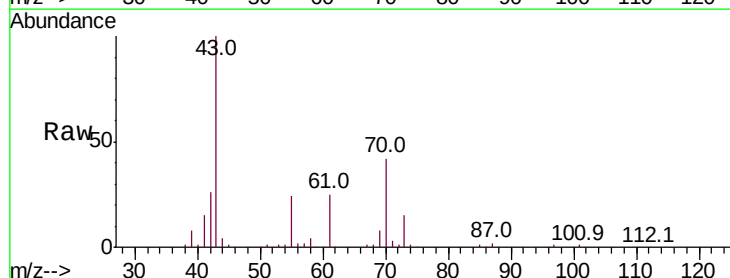
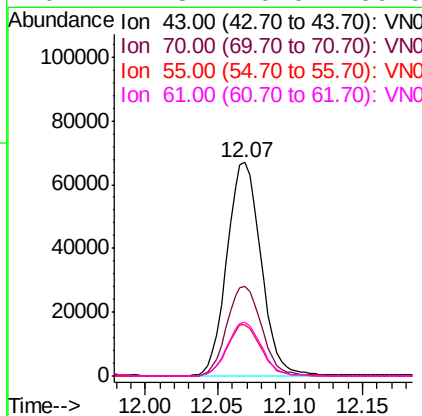
RT: 12.07 min Scan# 3202

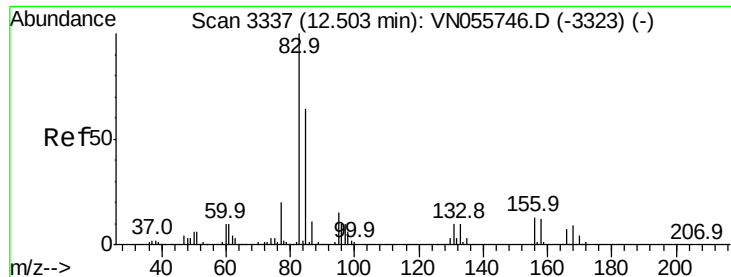
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	42.9	34.0	51.0
55	23.9	18.6	28.0
61	24.8	20.0	30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.926 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

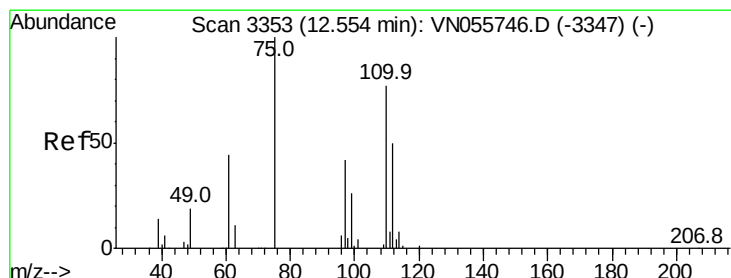
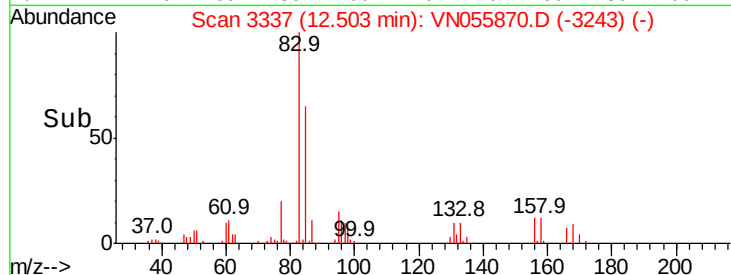
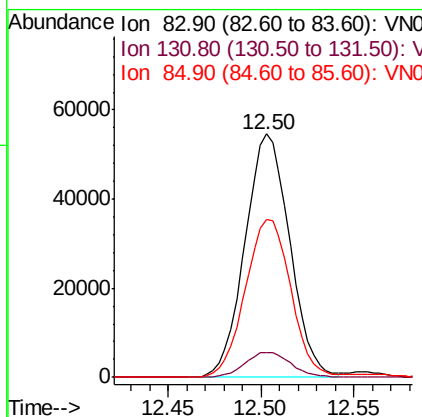
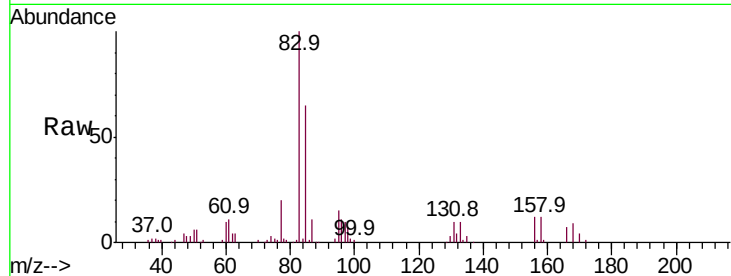
ClientSampleId :

VN0529MBS01

Tot Ion:	83	Resp:	91600
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.4	16.2
85	65.8	32.4	97.0

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#76

1,2,3-Trichloropropane

Concen: 23.035 ug/l m

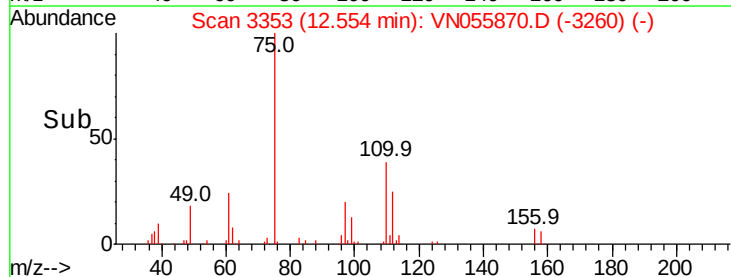
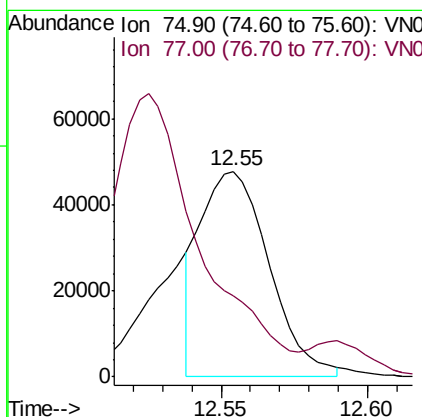
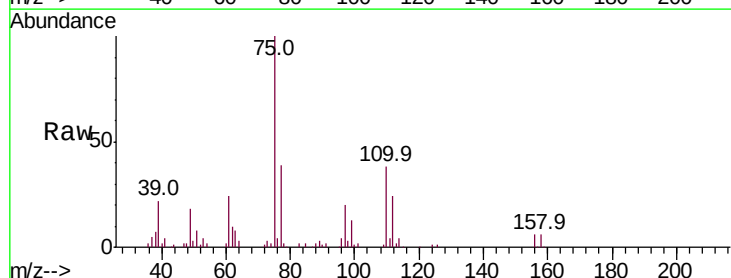
RT: 12.55 min Scan# 3353

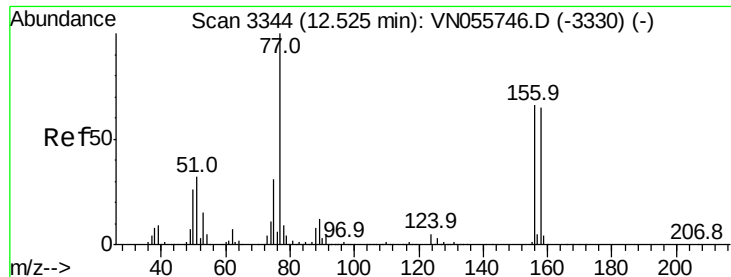
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	75	Resp:	77851
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.476 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

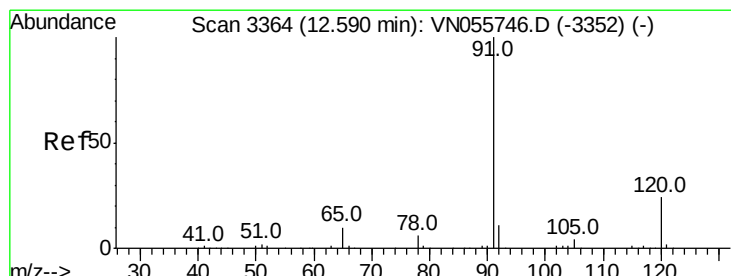
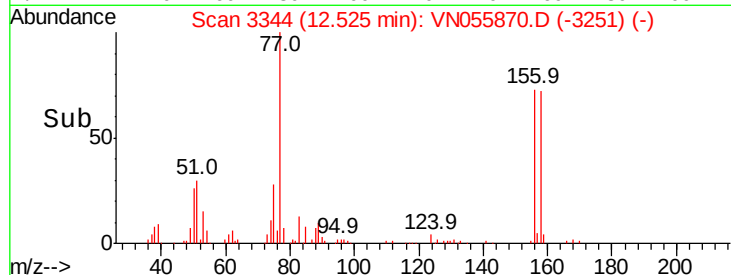
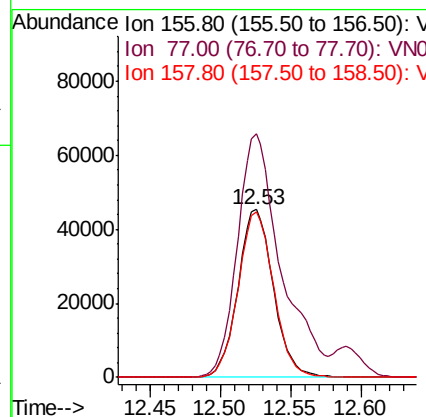
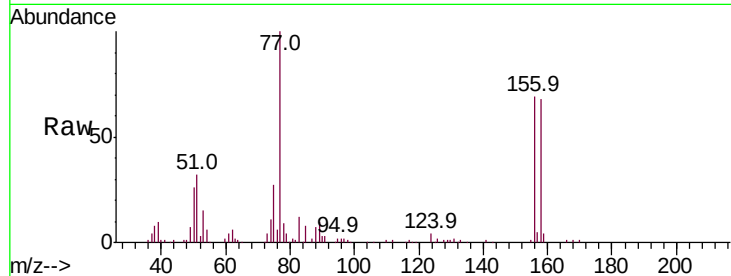
ClientSampleId :

VN0529MBS01

Tot Ion:	156	Resp:	79871
Ion Ratio	Lower	Upper	
156	100		
77	179.1	90.8	272.5
158	98.6	49.3	147.8

Manual Integrations
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#78

n-propylbenzene

Concen: 20.038 ug/l

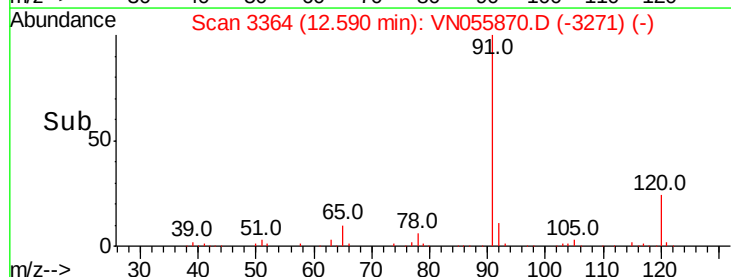
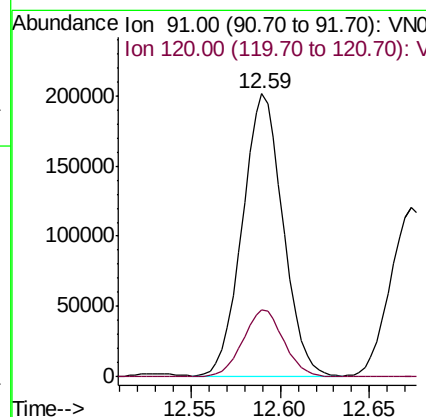
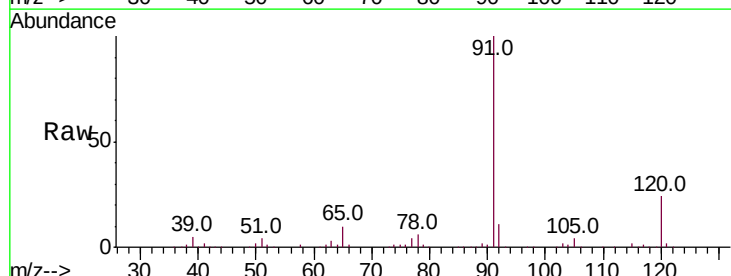
RT: 12.59 min Scan# 3364

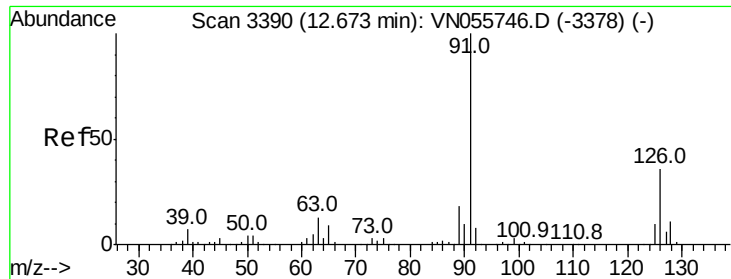
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	91	Resp:	318358
Ion Ratio	Lower	Upper	
91	100		
120	24.1	12.0	36.0





#79

2-Chlorotoluene

Concen: 21.937 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion: 91 Resp: 199976

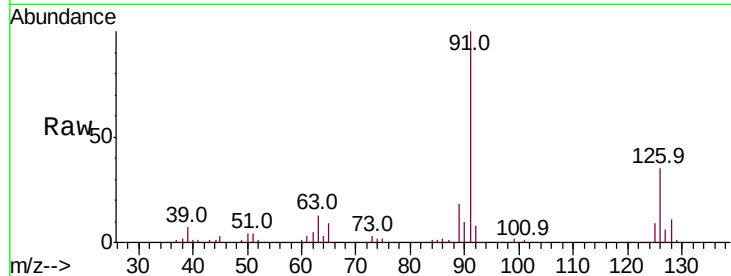
Ion Ratio Lower Upper

91 100

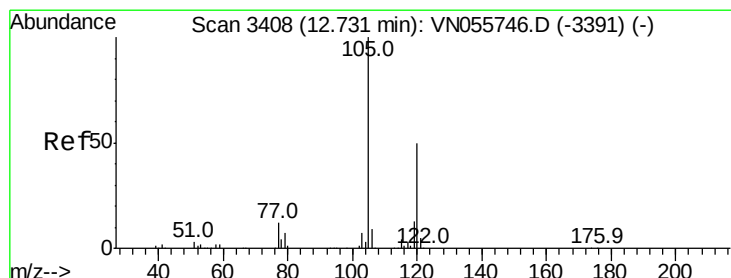
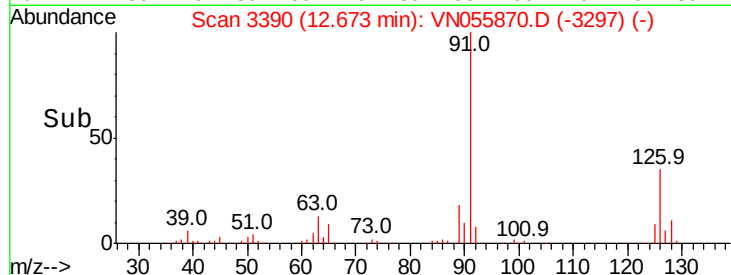
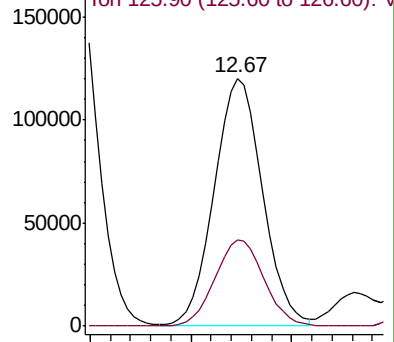
126 35.6 18.1 54.4

Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VN055870.D (-3297) (-)



#80

1,3,5-Trimethylbenzene

Concen: 21.710 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055870.D

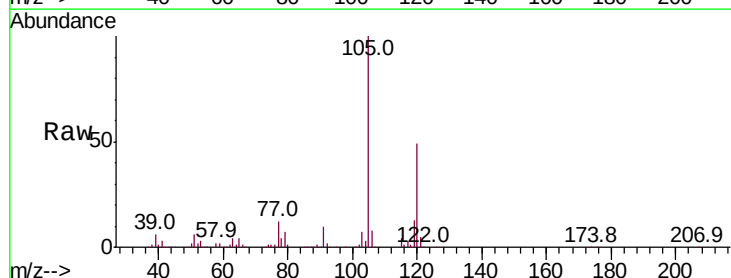
Acq: 29 May 2019 12:03

Tgt Ion:105 Resp: 253468

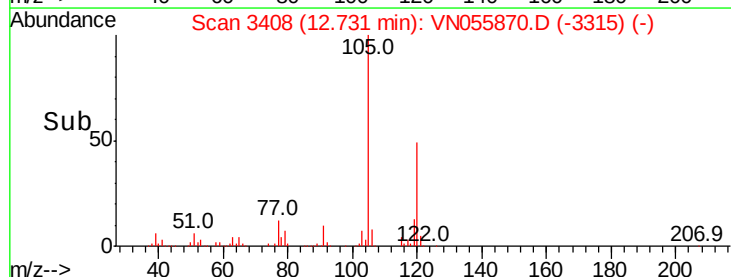
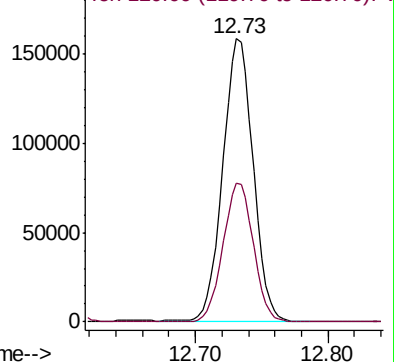
Ion Ratio Lower Upper

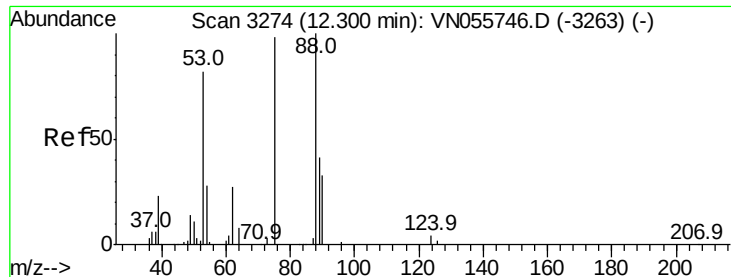
105 100

120 49.2 24.7 74.1



Abundance Ion 105.00 (104.70 to 105.70): VN055870.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 17.617 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

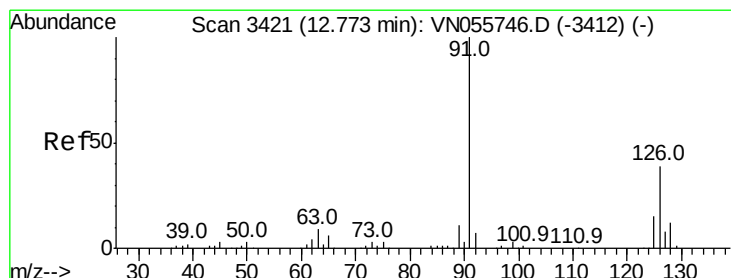
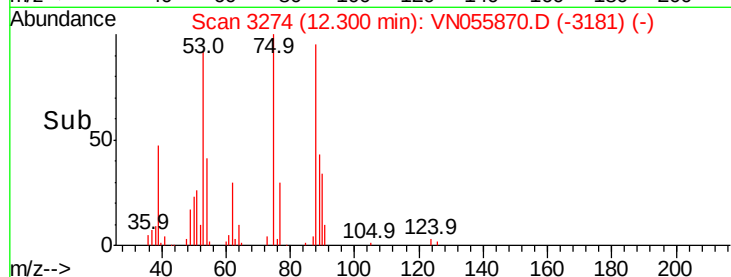
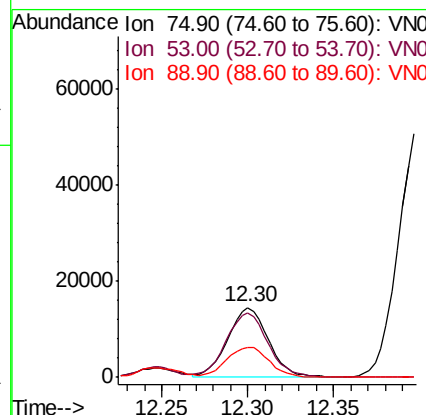
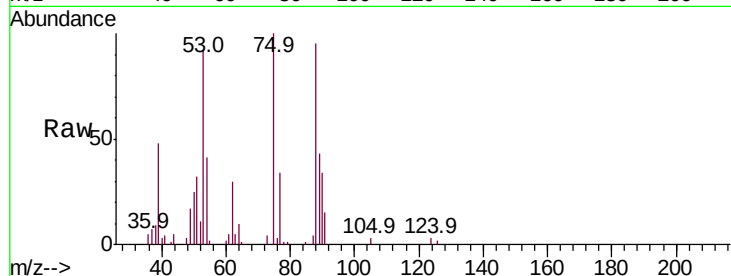
ClientSampleId :

VN0529MBS01

Tot Ion:	75	Resp:	23935
Ion	Ratio	Lower	Upper
75	100		
53	96.0	68.1	102.1
89	45.2	36.9	55.3

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.931 ug/l

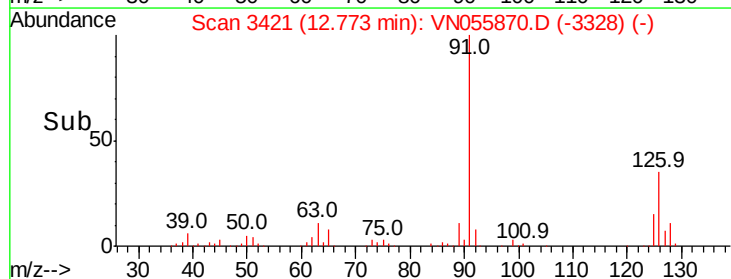
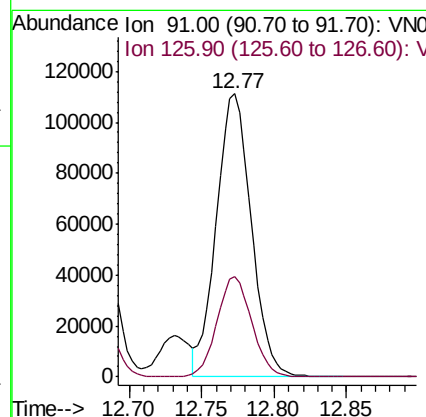
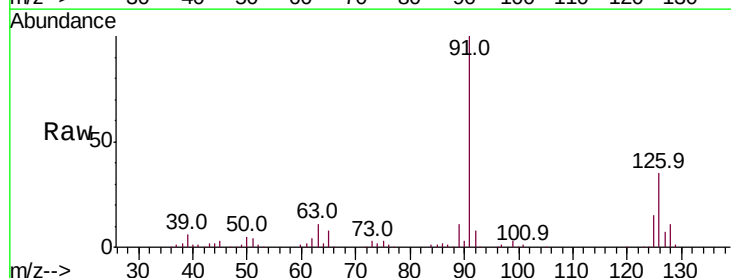
RT: 12.77 min Scan# 3421

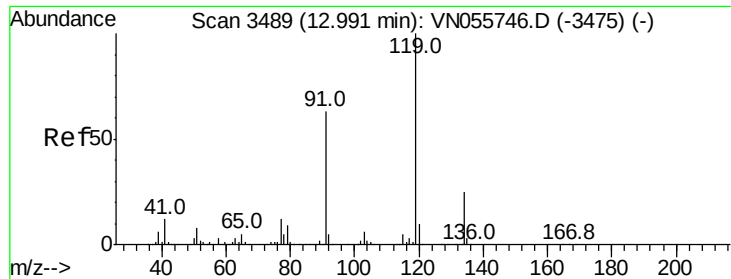
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	91	Resp:	186134
Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.8	53.3





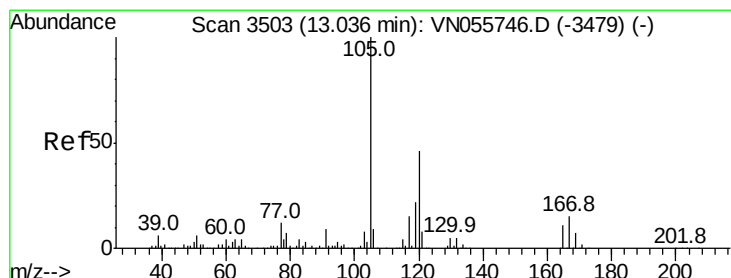
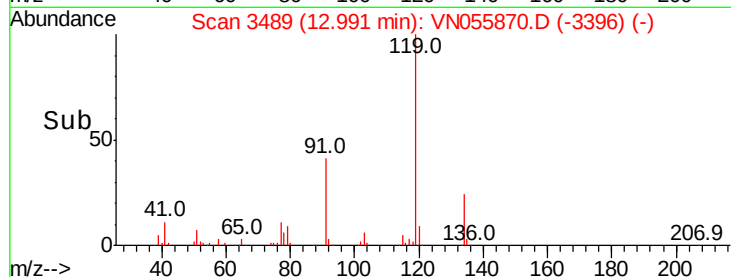
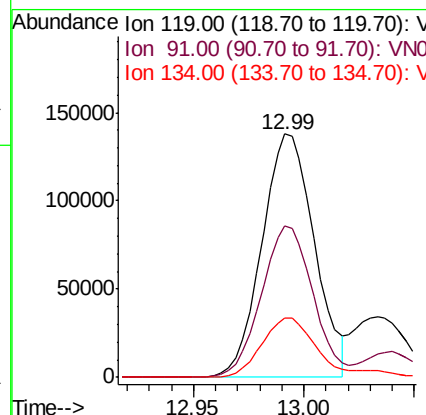
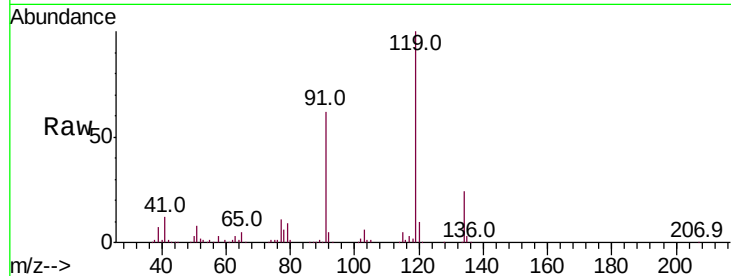
#83
tert-Butylbenzene
Concen: 22.419 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	227893		
91	61.0	30.9	92.8	
134	26.7	13.3	39.8	

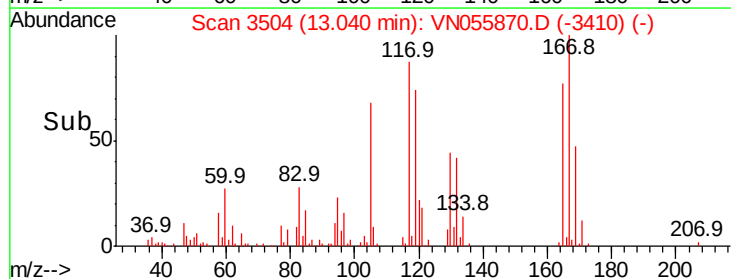
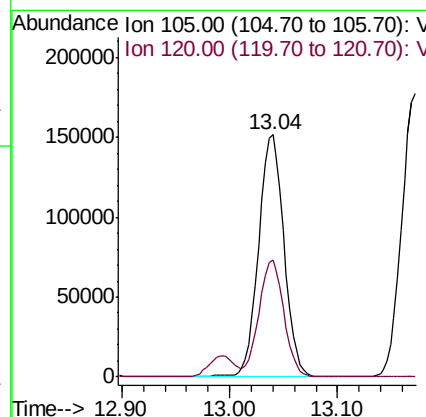
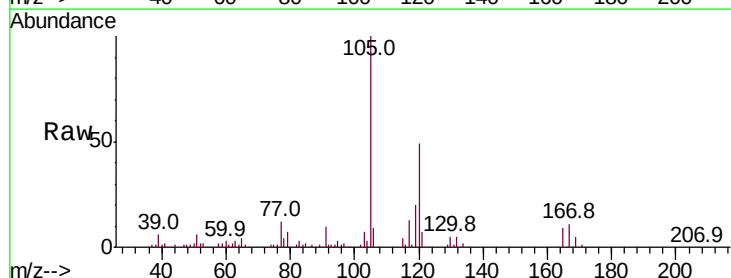
Manual Integrations
APPROVED

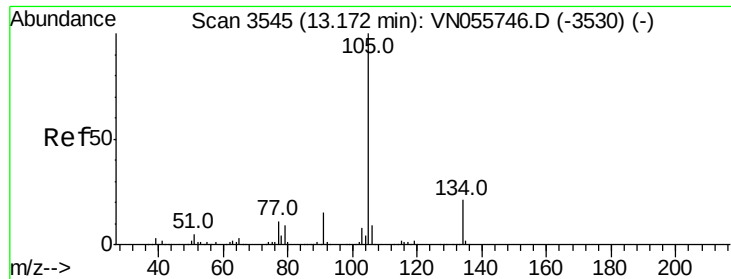
MMDadoda
5/30/2019 9:35:00 AM



#84
1,2,4-Trimethylbenzene
Concen: 21.295 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	247375		
120	47.4	23.0	69.0	





#85

sec-Butylbenzene

Concen: 21.842 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

ClientSampleId :

VN0529MBS01

Tot Ion:105 Resp: 285146

Ion Ratio Lower Upper

105 100

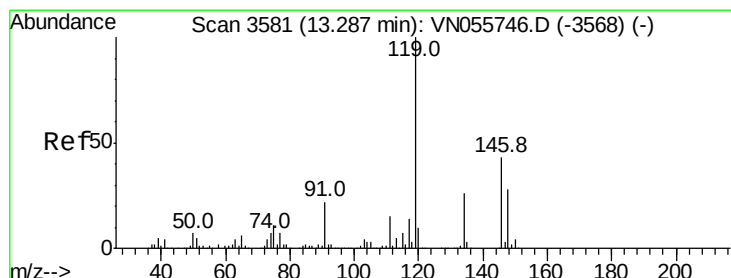
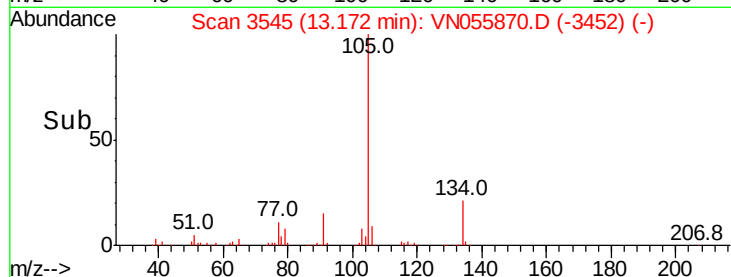
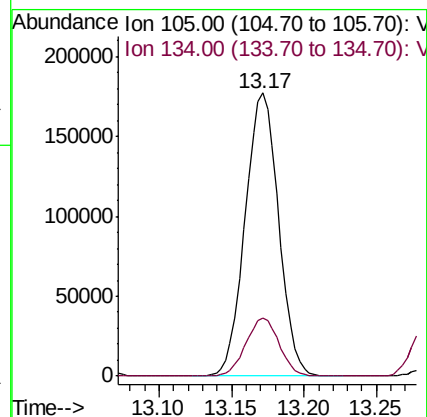
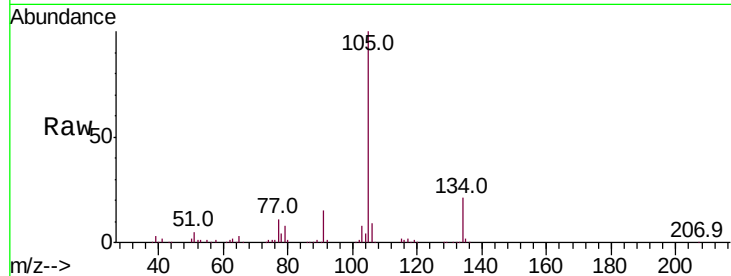
134 20.4 10.4 31.2

Manual Integrations

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5/30/2019 9:35:00 AM



#86

p-Isopropyltoluene

Concen: 20.081 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

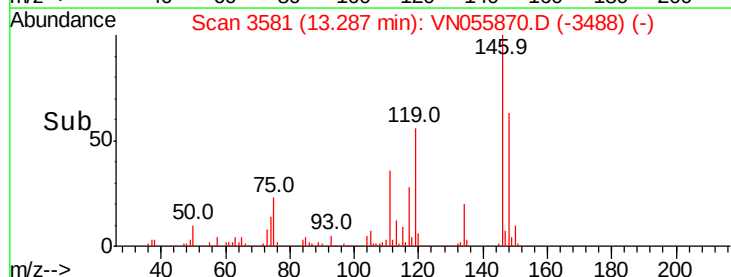
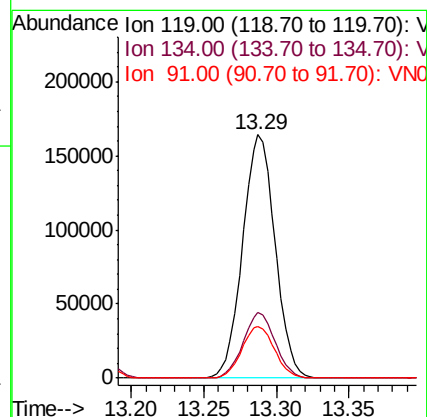
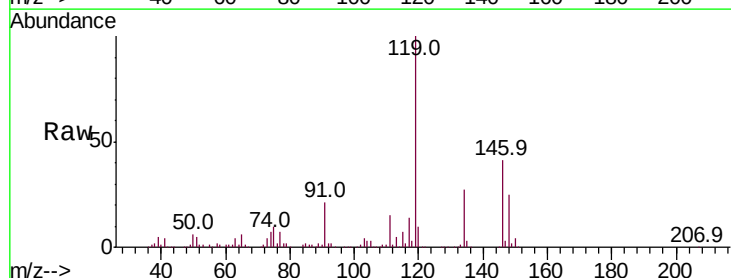
Tgt Ion:119 Resp: 254922

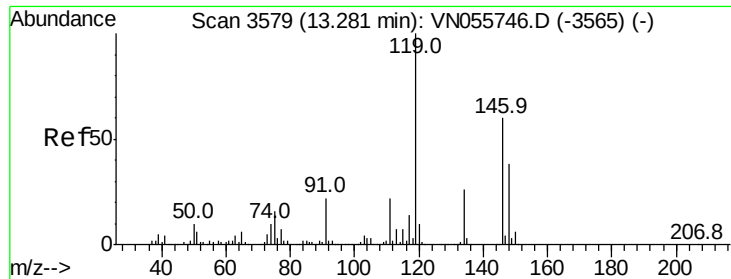
Ion Ratio Lower Upper

119 100

134 26.5 13.4 40.1

91 21.2 10.9 32.9





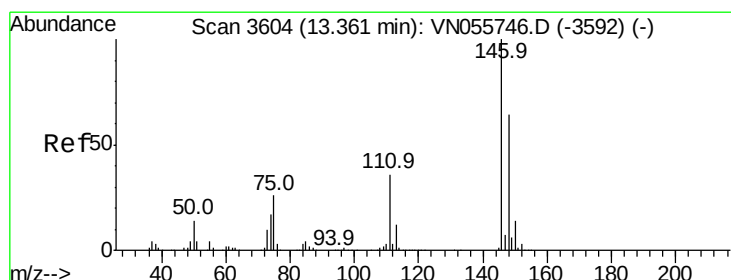
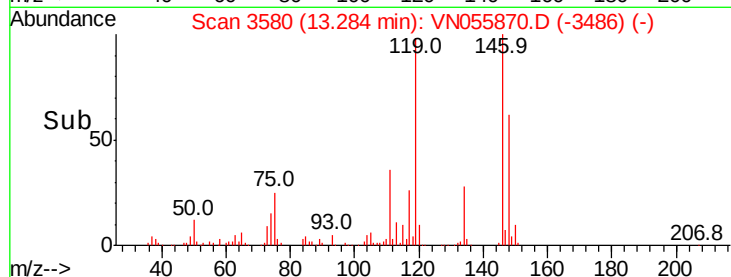
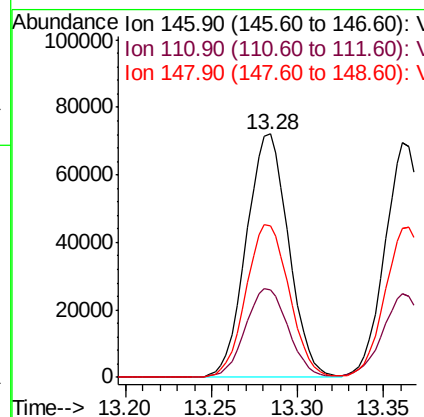
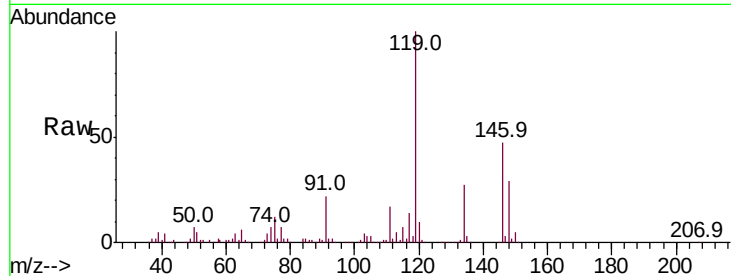
#87
 1,3-Dichlorobenzene
 Concen: 19.981 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0529MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	123413		
111	37.0	18.5	55.5	
148	64.1	32.0	96.2	

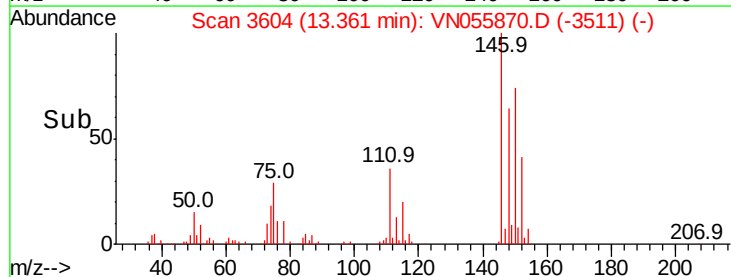
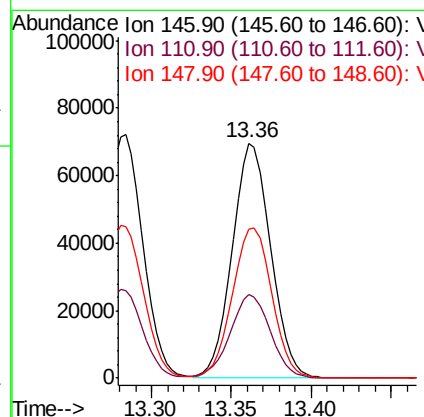
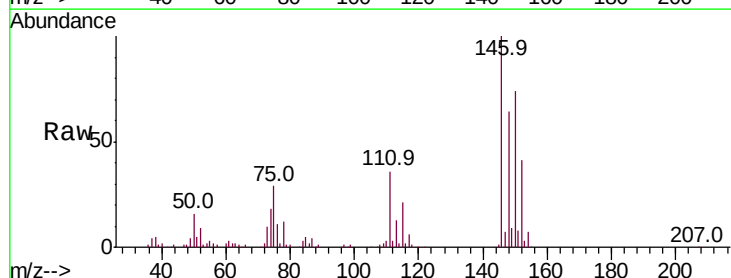
Manual Integrations
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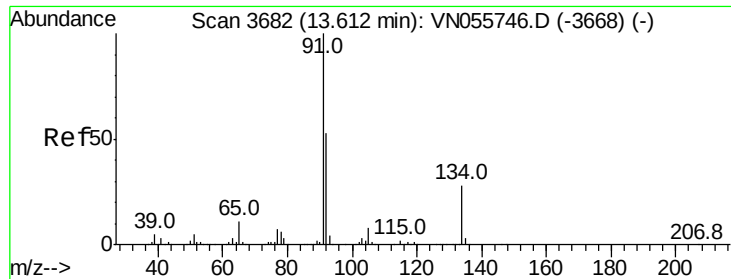
MMDadoda
 5/30/2019 9:35:00 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.450 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	114219		
111	37.3	18.1	54.4	
148	65.8	32.1	96.5	





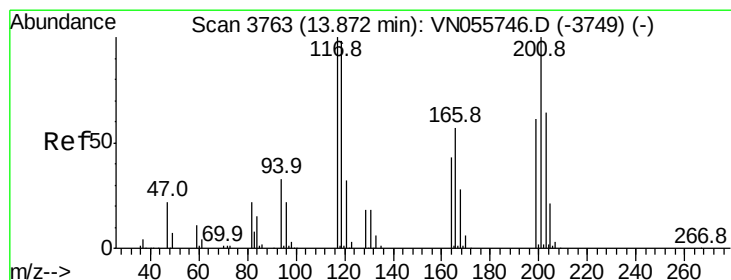
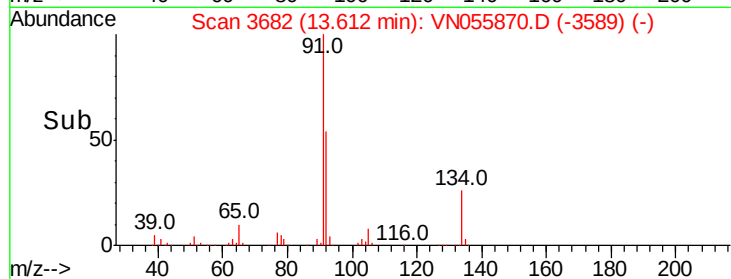
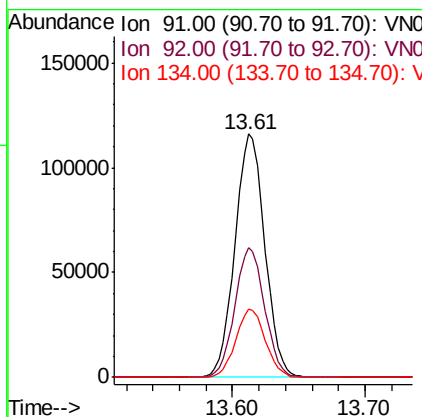
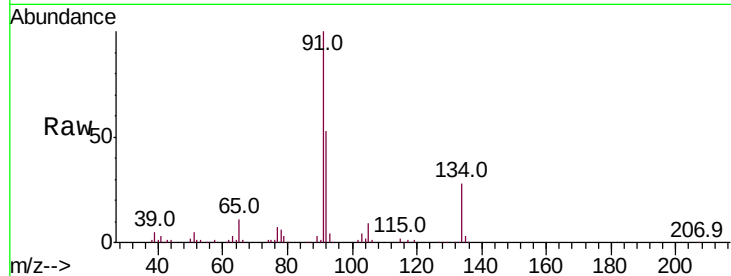
#89
n-Butylbenzene
Concen: 18.676 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Instrument :
MSVOA_N
ClientSampleId :
VN0529MBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	181654		
92	52.9	26.4	79.0	
134	27.7	13.9	41.7	

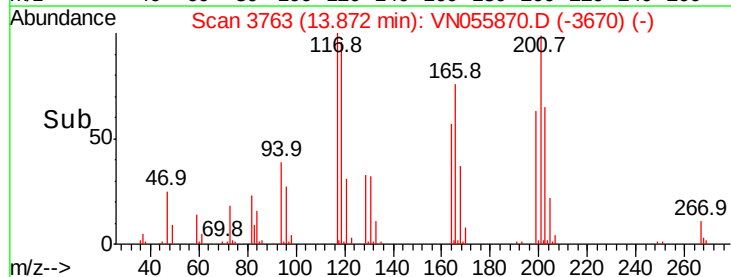
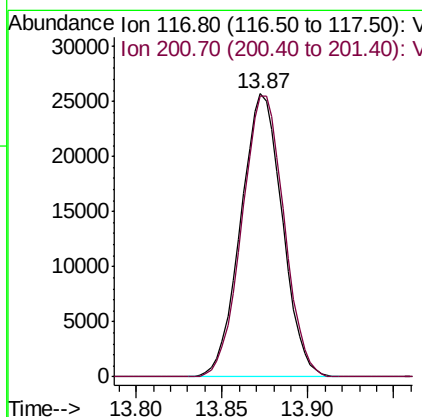
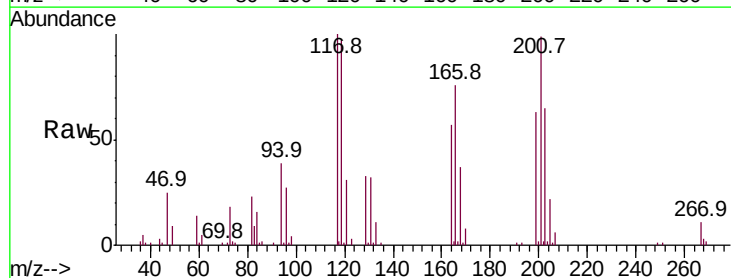
Manual Integrations
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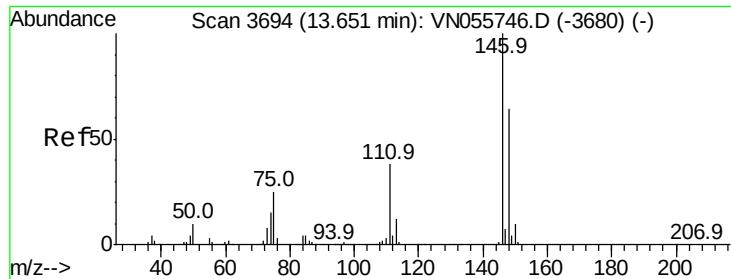
MMDadoda
5/30/2019 9:35:00 AM



#90
Hexachloroethane
Concen: 17.883 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055870.D
Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	43209		
201	100.2	50.0	150.0	





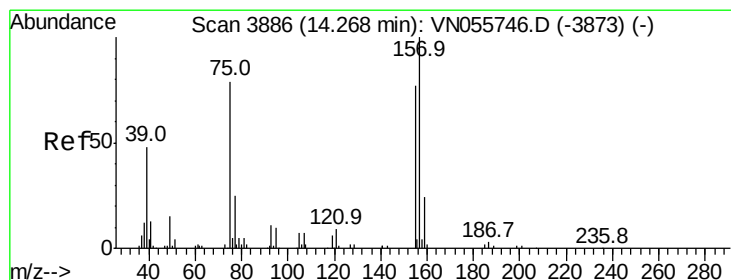
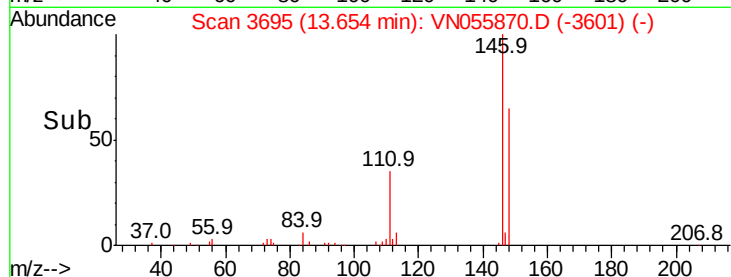
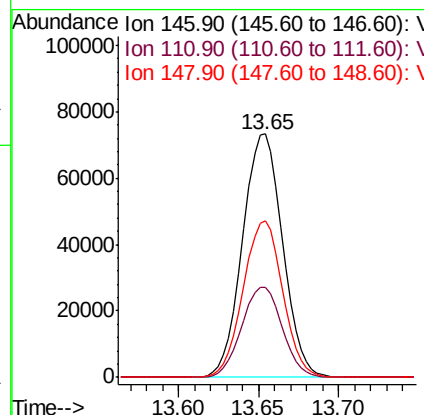
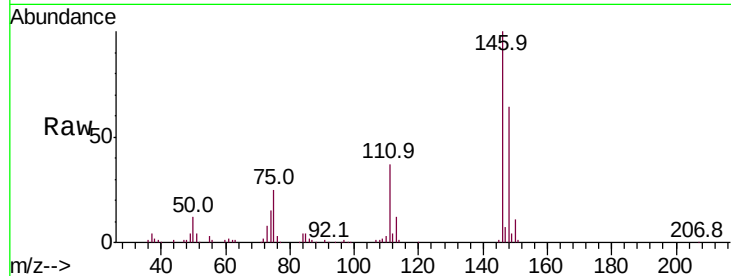
#91
 1,2-Dichlorobenzene
 Concen: 20.325 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Instrument :
 MSVOA_N
 ClientSampled :
 VN0529MBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	125251		
111	37.5	19.1	57.5	
148	63.4	31.9	95.9	

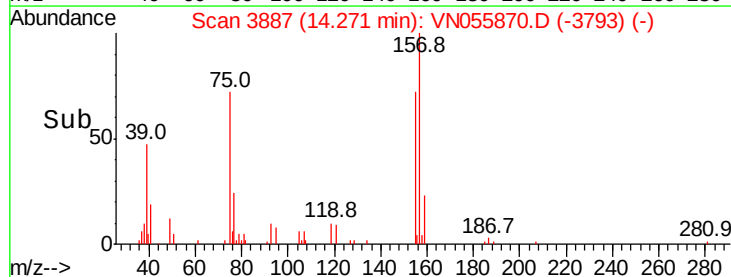
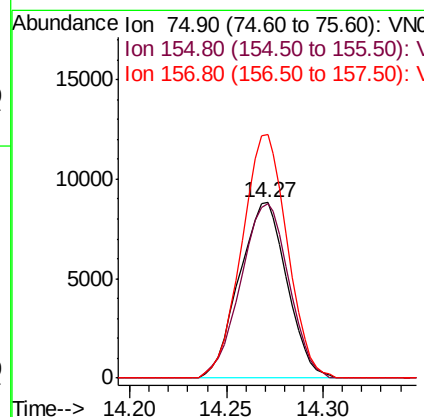
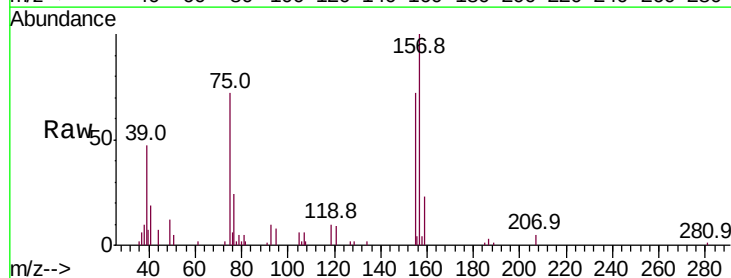
Manual Integrations
 APPROVED

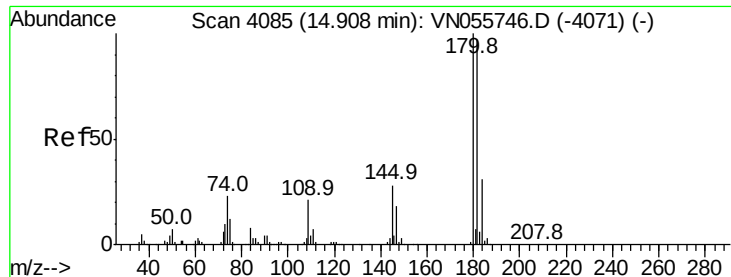
MMDadoda
 5/30/2019 9:35:00 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.742 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN055870.D
 Acq: 29 May 2019 12:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	15180		
155	99.8	50.0	150.1	
157	132.2	64.8	194.3	





#93

1,2,4-Trichlorobenzene

Concen: 17.993 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

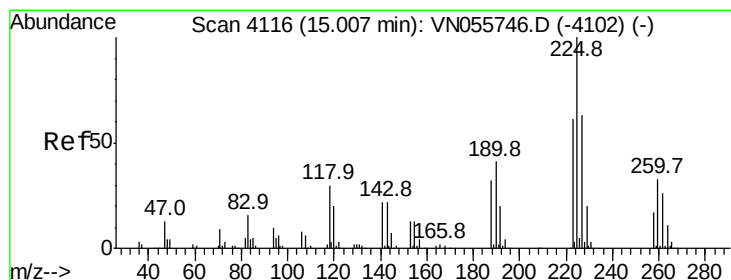
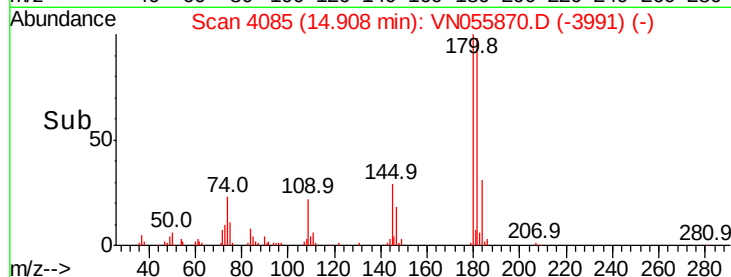
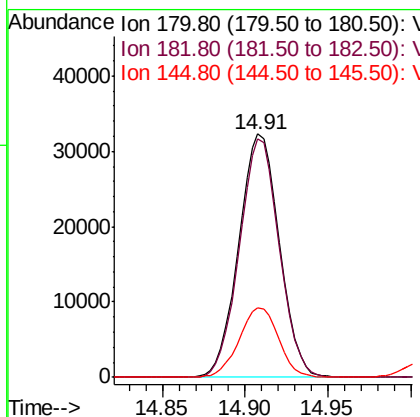
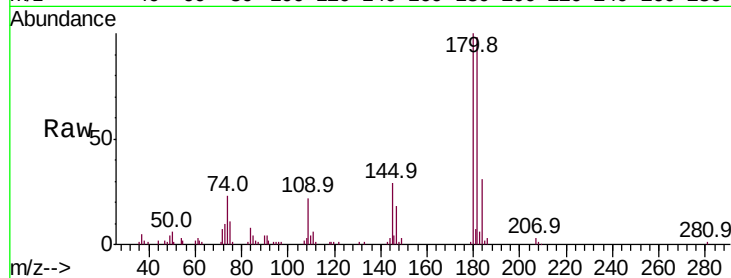
ClientSampleId :

VN0529MBS01

Tot Ion:	180	Resp:	54893
Ion Ratio	Lower	Upper	
180	100		
182	96.0	48.3	144.9
145	27.8	14.0	41.9

Manual Integrations
APPROVED

MMDadoda
5/30/2019 9:35:00 AM



#94

Hexachlorobutadiene

Concen: 20.285 ug/l

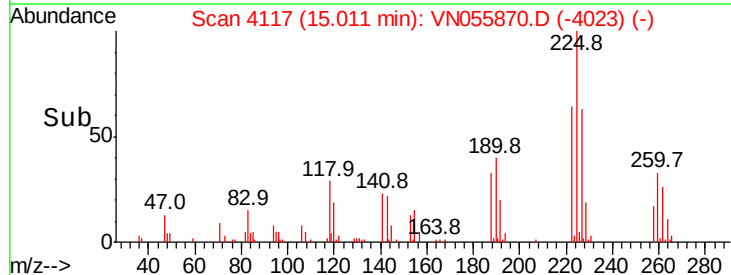
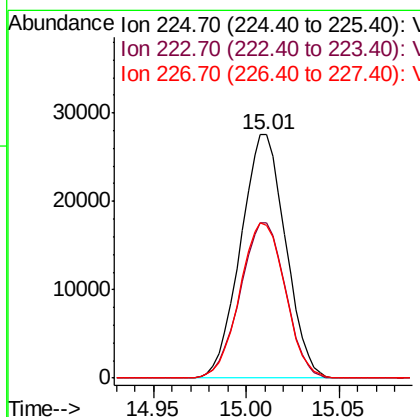
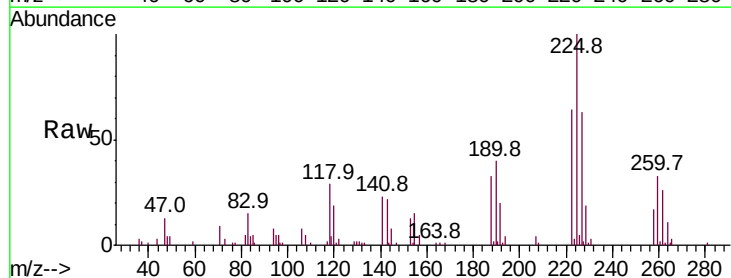
RT: 15.01 min Scan# 4117

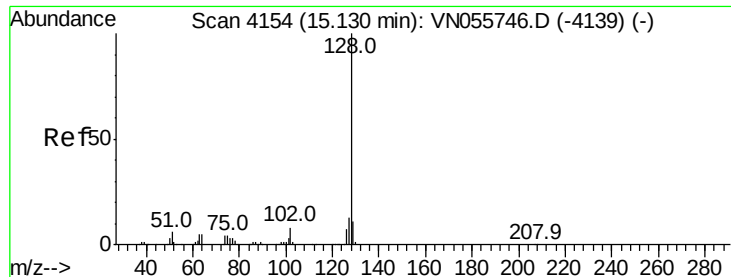
Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	225	Resp:	46346
Ion Ratio	Lower	Upper	
225	100		
223	64.0	30.9	92.7
227	64.2	31.6	94.7





#95

Naphthalene

Concen: 20.668 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Instrument :

MSVOA_N

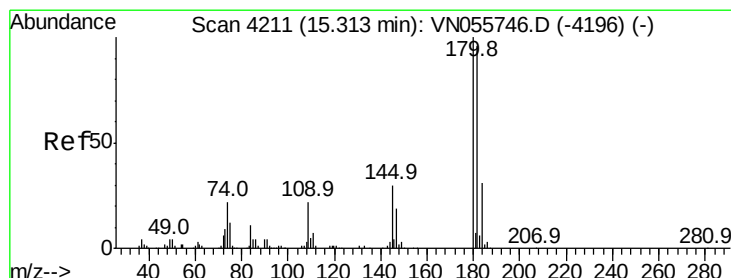
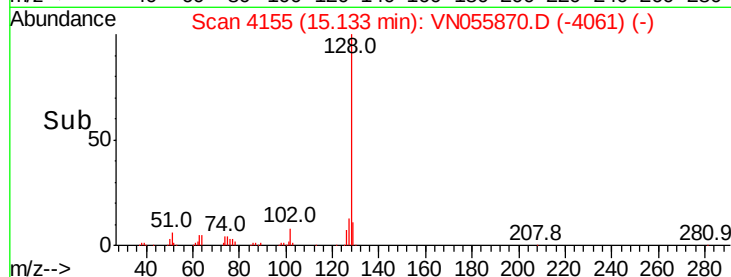
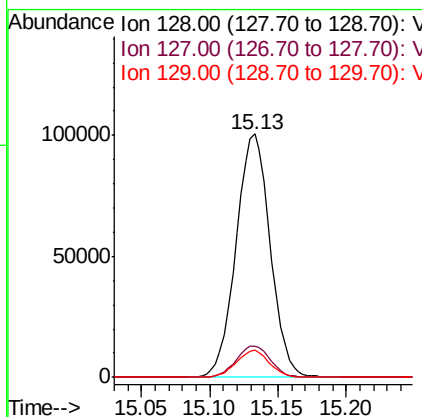
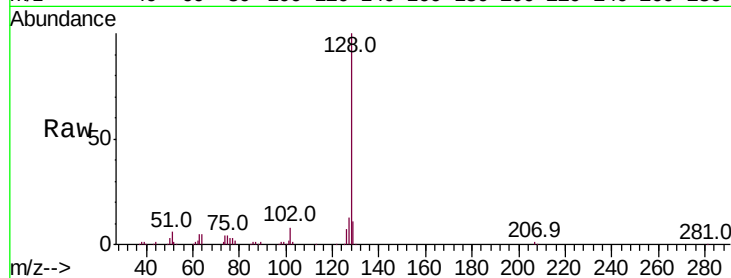
ClientSampleId :

VN0529MBS01

Tot Ion:	128	Resp:	174771
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/30/2019 9:35:00 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.770 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN055870.D

Acq: 29 May 2019 12:03

Tgt Ion:	180	Resp:	61142
Ion Ratio	Lower	Upper	
180	100		
182	97.0	47.9	143.7
145	29.0	14.9	44.7

