

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055725.D
 Acq On : 22 May 2019 17:47
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:31:00 PM

Quant Time: May 23 05:47:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	58537	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	320703	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	282227	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	114548	25.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	85.57%
60) 4-Bromofluorobenzene	12.40	95	131441	30.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.50%
63) Toluene-d8	10.09	98	385920	28.97	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	121490	39.562	ug/l 98
3) Chloromethane	2.06	50	173778	40.029	ug/l 98
4) Vinyl Chloride	2.19	62	182920	49.883	ug/l 99
5) Bromomethane	2.54	94	104594	50.054	ug/l 100
6) Chloroethane	2.69	64	109229	52.623	ug/l 96
7) Trichlorofluoromethane	3.01	101	227855	43.622	ug/l 99
8) Diethyl Ether	3.40	74	102716	47.360	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	145864	43.910	ug/l 99
10) 1,1-Dichloroethene	3.72	96	151762	47.928	ug/l 99
11) Methyl Iodide	3.94	142	220043	44.992	ug/l 98
12) Methyl Acetate	4.33	43	180176	40.726	ug/l 99
13) Acrolein	3.60	56	126254	470.952	ug/l 98
14) Acrylonitrile	4.99	53	429559	260.072	ug/l 100
15) Acetone	3.82	58	131360	309.709	ug/l 99
16) Carbon Disulfide	4.04	76	432947	49.368	ug/l 100
17) Allyl chloride	4.31	41	275730	41.438	ug/l 98
18) Methylene Chloride	4.54	84	172951	44.860	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	163277	47.463	ug/l 98
20) Diisopropyl ether	5.96	45	531123	40.085	ug/l 96
21) 1,1-Dichloroethane	5.84	63	302573	43.141	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	190781	47.575	ug/l 99
23) tert-Butyl Alcohol	4.81	59	187019	407.282	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	518975	49.784	ug/l 99
25) Chloroform	7.37	83	299254	45.013	ug/l 100
26) Cyclohexane	7.65	56	278459	44.934	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	226740	45.598	ug/l 98
30) 2-Butanone	6.84	43	601407	283.139	ug/l 100
31) 2,2-Dichloropropane	6.82	77	257777	52.389	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	264552	47.306	ug/l 100
33) Carbon Tetrachloride	7.77	117	235791	49.556	ug/l 99
34) Benzene	8.04	78	694264	46.438	ug/l # 94
35) Methacrylonitrile	7.17	41	112435	49.517	ug/l 99
36) 1,2-Dichloroethane	8.12	62	225275	42.982	ug/l 100
37) Trichloroethene	8.83	130	192695	50.051	ug/l 98
38) Methylcyclohexane	9.08	83	280439	51.049	ug/l 99
39) 1,2-Dichloropropane	9.12	63	187593	44.445	ug/l 97
40) Dibromomethane	9.21	93	120376	48.514	ug/l 97

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	245210	47.907	ug/l	99
42) Vinyl Acetate	5.90	43	2334131	237.735	ug/l	100
43) Ethyl Acetate	6.93	43	229520	52.385	ug/l #	100
44) Isopropyl Acetate	8.17	43	393270	50.414	ug/l #	87
45) 1,4-Dioxane	9.20	88	73260	1567.706	ug/l	96
46) Methyl methacrylate	9.20	41	182230	49.492	ug/l	99
47) n-amyl Acetate	12.07	43	321547	55.068	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	277375	53.639	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	300615	50.808	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	173315	50.323	ug/l	98
51) Ethyl methacrylate	10.43	69	283286	57.469	ug/l	98
52) 1,3-Dichloropropane	10.71	76	287551	47.562	ug/l	100
53) Dibromochloromethane	10.90	129	207287	56.262	ug/l	98
54) 1,2-Dibromoethane	11.00	107	181764	53.309	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	546708	345.779	ug/l	100
56) Bromoform	12.13	173	170693	66.732	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	1159790	258.992	ug/l	100
59) 2-Hexanone	10.75	43	829259	282.698	ug/l	99
61) Tetrachloroethene	10.63	164	189742	51.538	ug/l	97
62) Toluene	10.16	91	761498	48.052	ug/l	99
64) Chlorobenzene	11.43	112	459654	48.712	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	183730	51.208	ug/l	98
66) Ethyl Benzene	11.51	91	827792	48.696	ug/l	99
67) m/p-Xylenes	11.62	106	629487	100.833	ug/l	100
68) o-Xylene	11.95	106	308541	49.741	ug/l	100
69) Styrene	11.96	104	520606	53.163	ug/l	99
70) Isopropylbenzene	12.25	105	808703	49.544	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	248702	53.634	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	205595m	50.744	ug/l	
73) Bromobenzene	12.53	156	215271	54.103	ug/l	99
74) n-propylbenzene	12.59	91	884919	48.880	ug/l	100
75) 2-Chlorotoluene	12.67	91	537051	48.331	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	673722	50.026	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	84890	71.233	ug/l	99
78) 4-Chlorotoluene	12.77	91	521367	49.492	ug/l	99
79) tert-butylbenzene	12.99	119	587037	50.393	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	667572	51.358	ug/l	99
81) sec-Butylbenzene	13.17	105	753609	49.416	ug/l	100
82) p-Isopropyltoluene	13.29	119	692791	53.504	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	345983	53.852	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	334384	55.178	ug/l	99
85) n-Butylbenzene	13.61	91	551950	55.372	ug/l	99
86) Hexachloroethane	13.87	117	136080	59.061	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	346056	53.788	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	46724	64.021	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	192109	70.384	ug/l	100
90) Hexachlorobutadiene	15.01	225	134297	59.617	ug/l	98
91) Naphthalene	15.13	128	527001	78.971	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	197937	68.919	ug/l	98

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ALS Vial : 5 Sample Multiplier: 1

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ClientSampleId :
VSTDICC050

Manual Integrations
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QLast Update : Thu May 23 05:31:08 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

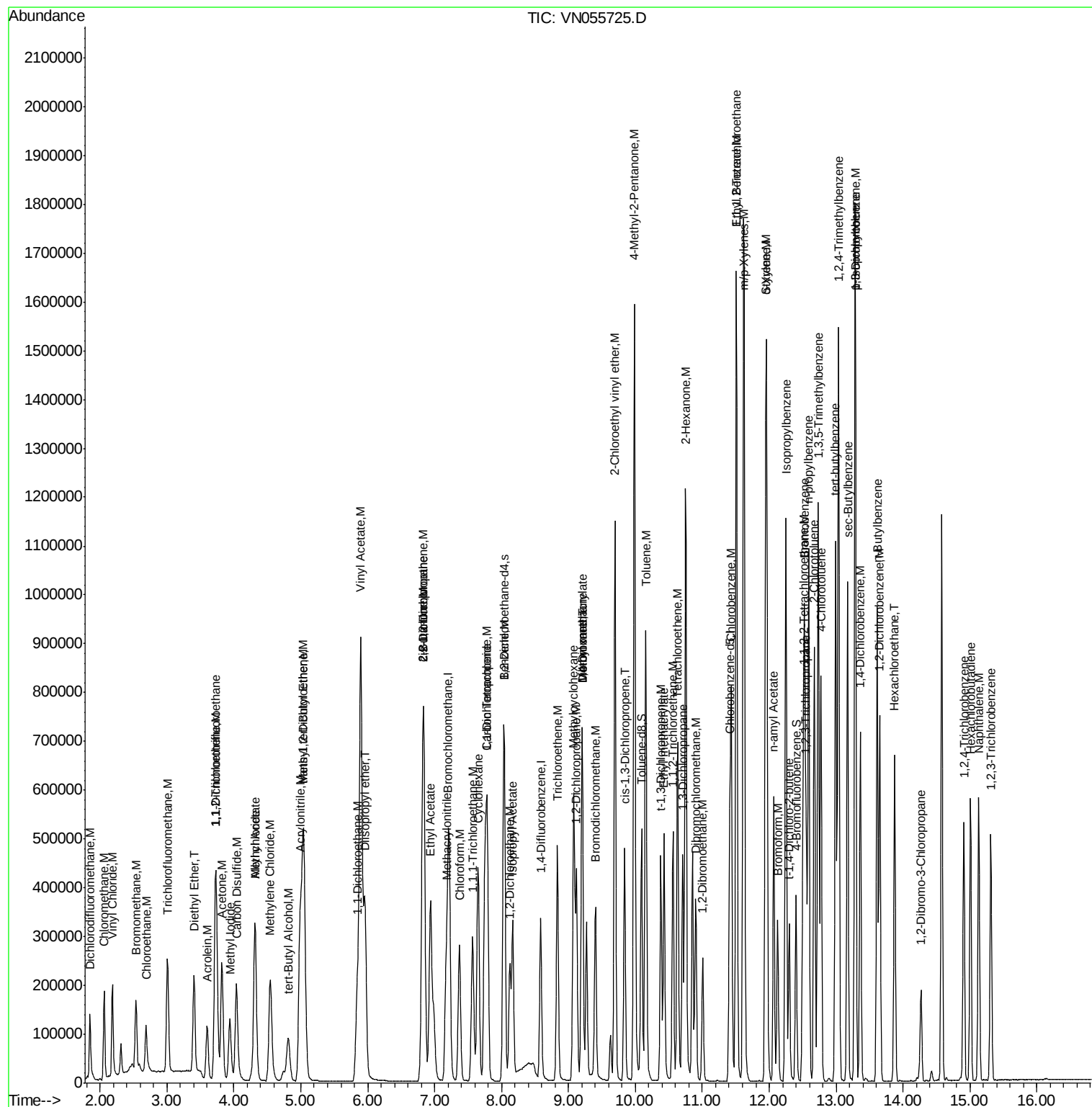
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
Data File : VN055725.D
Acq On : 22 May 2019 17:47
Operator : JC/SP
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Misc : 5.00mL/MSVOA N/WATER
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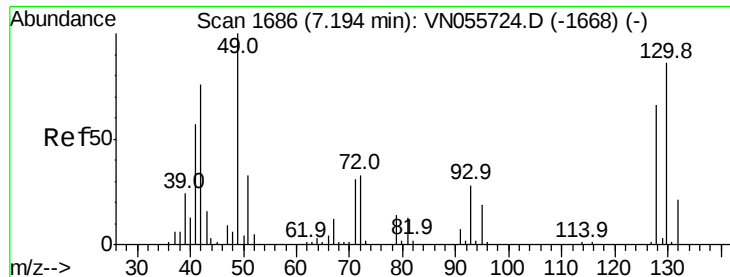
Instrument :
MSVOA_N
Client Sampled :
VSTDIC050

Manual Integrations
APPROVED

MMDadoda
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:128 Resp: 58537

Ion Ratio Lower Upper

128 100

49 156.3 0.0 383.2

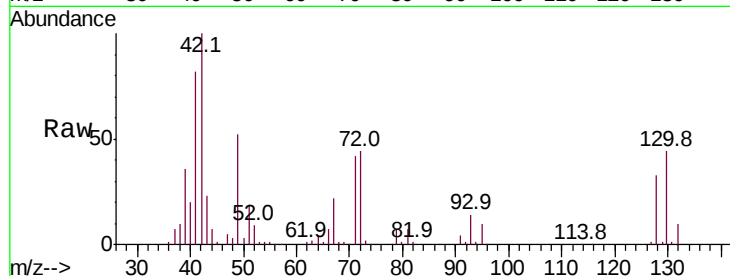
130 128.2 0.0 326.3

Manual Integrations

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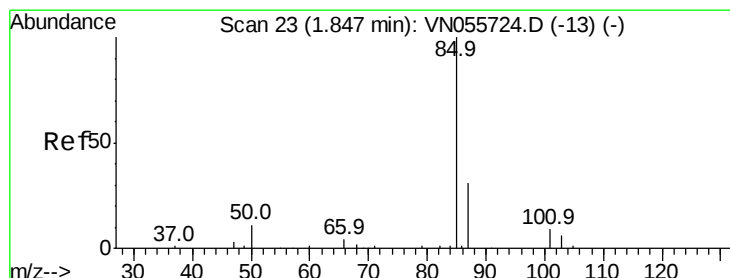
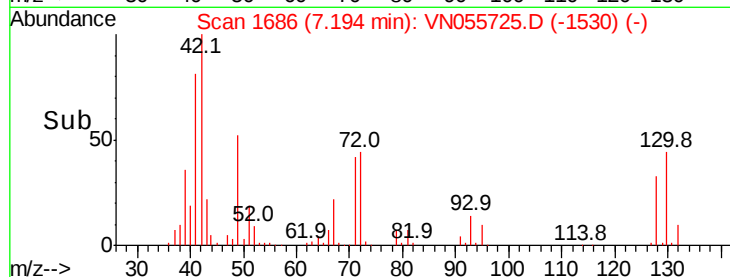
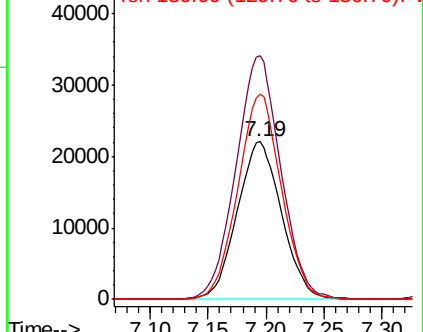
5/23/2019 12:31:00 PM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 39.562 ug/l

RT: 1.85 min Scan# 23

Delta R.T. 0.00 min

Lab File: VN055725.D

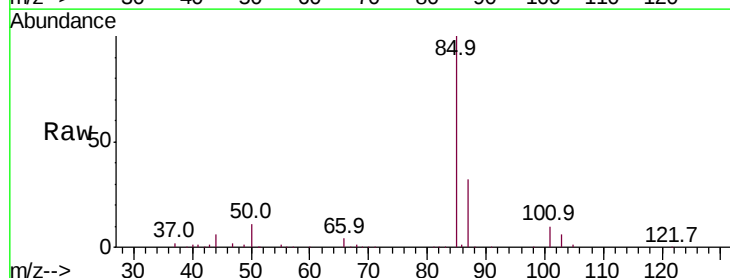
Acq: 22 May 2019 17:47

Tgt Ion: 85 Resp: 121490

Ion Ratio Lower Upper

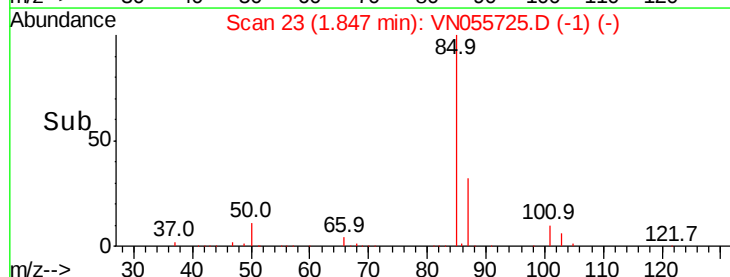
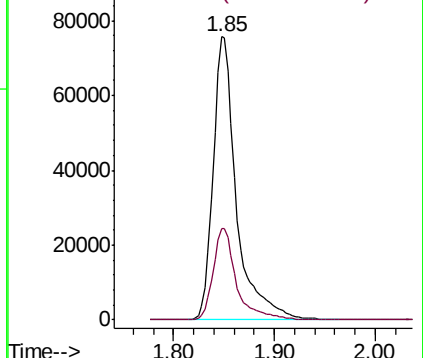
85 100

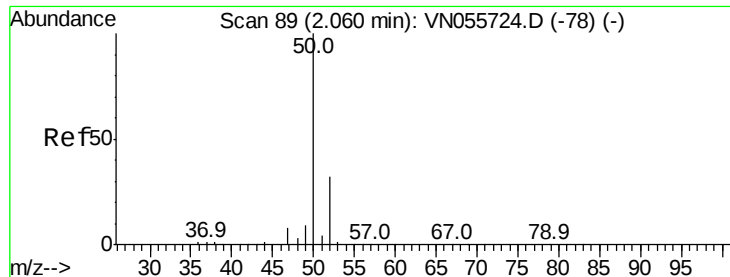
87 32.2 15.7 47.0



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 40.029 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 50 Resp: 173778

Ion Ratio Lower Upper

50 100

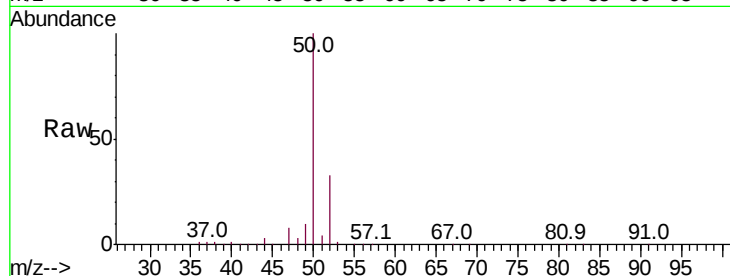
52 33.2 25.4 38.2

Manual Integrations

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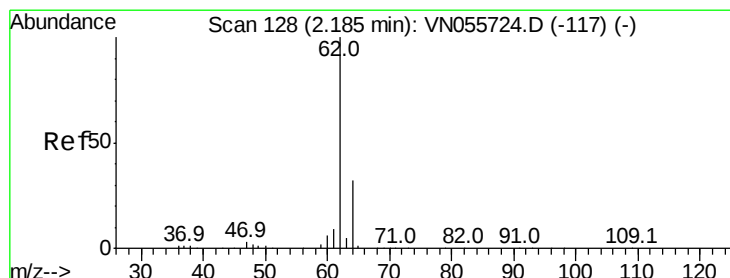
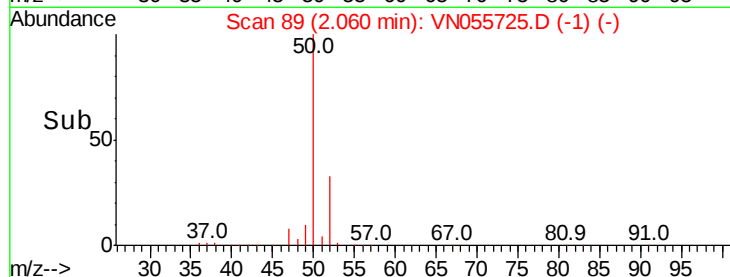
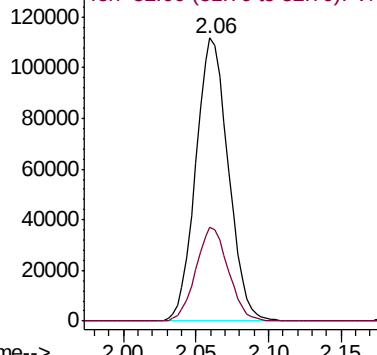
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Abundance Ion 50.00 (49.70 to 50.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#4

Vinyl Chloride

Concen: 49.883 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055725.D

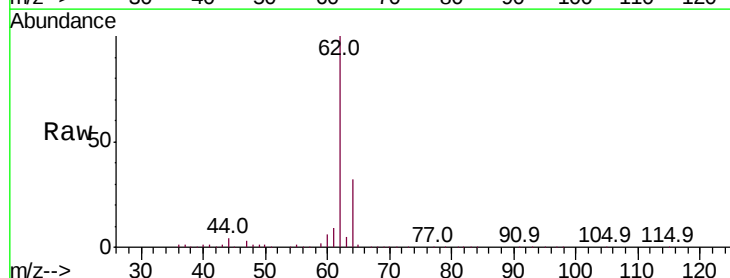
Acq: 22 May 2019 17:47

Tgt Ion: 62 Resp: 182920

Ion Ratio Lower Upper

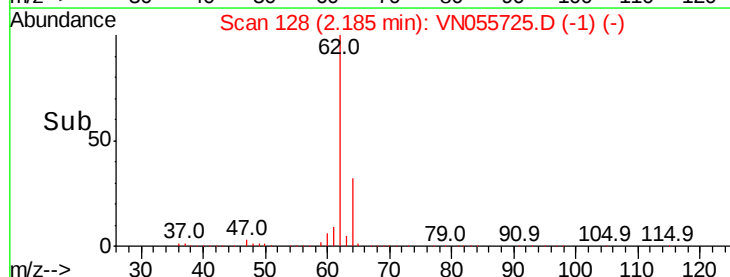
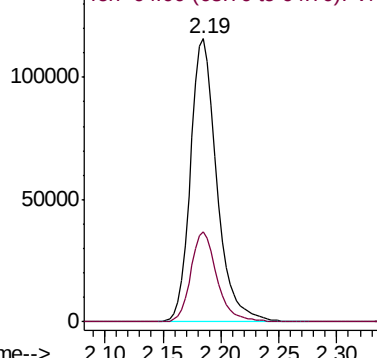
62 100

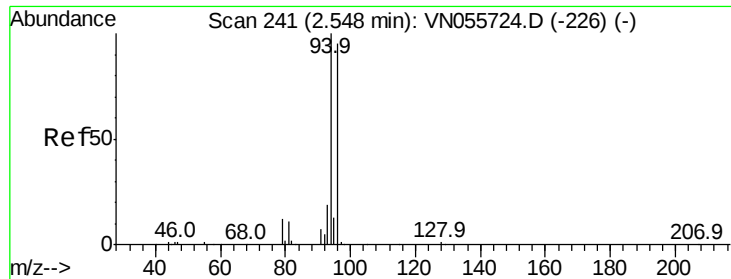
64 31.6 25.7 38.5



Abundance Ion 62.00 (61.70 to 62.70): VNC

Ion 64.00 (63.70 to 64.70): VNC





#5

Bromomethane

Concen: 50.054 ug/l

RT: 2.54 min Scan# 237

Delta R.T. -0.01 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

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MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 94 Resp: 104594

Ion Ratio Lower Upper

94 100

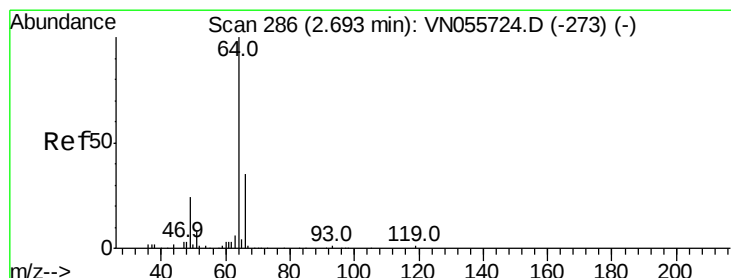
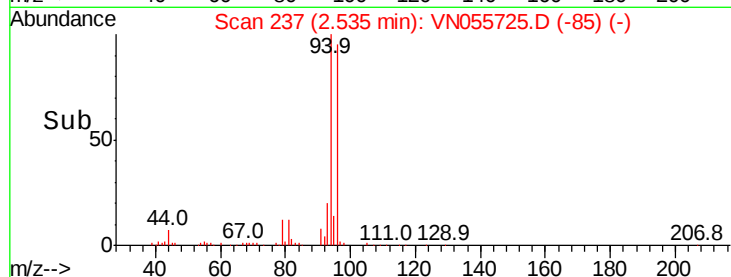
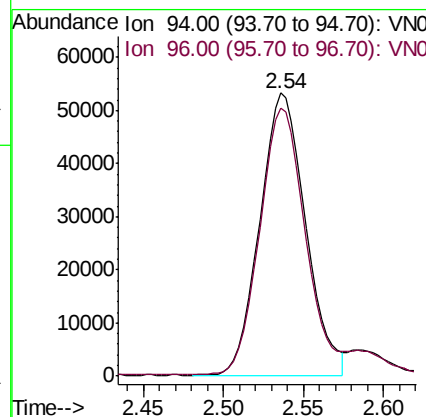
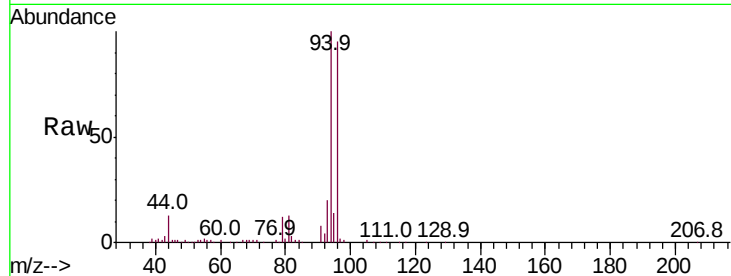
96 94.4 75.8 113.8

Manual Integrations

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#6

Chloroethane

Concen: 52.623 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.01 min

Lab File: VN055725.D

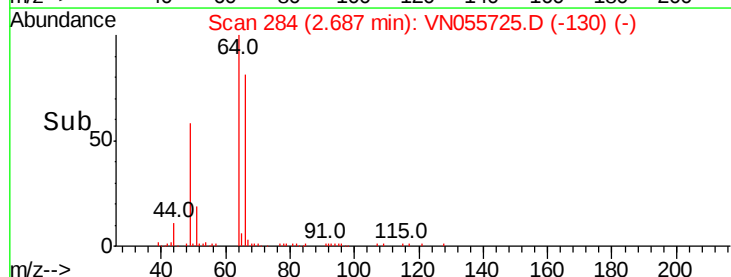
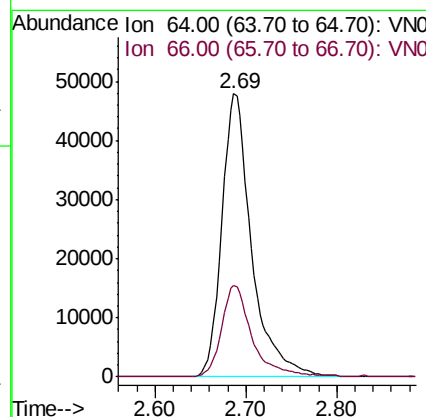
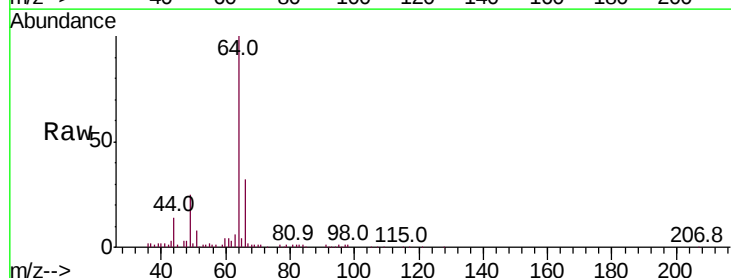
Acq: 22 May 2019 17:47

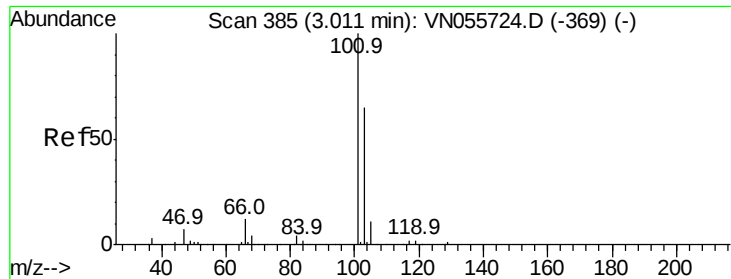
Tgt Ion: 64 Resp: 109229

Ion Ratio Lower Upper

64 100

66 32.5 27.9 41.9





#7

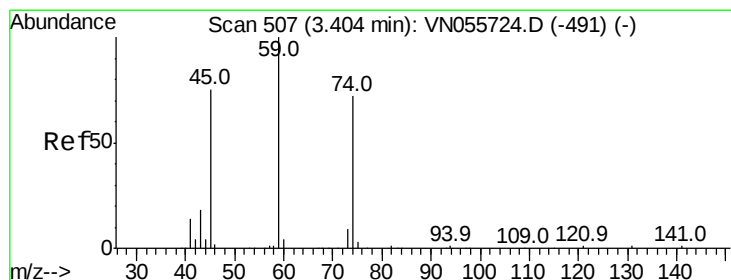
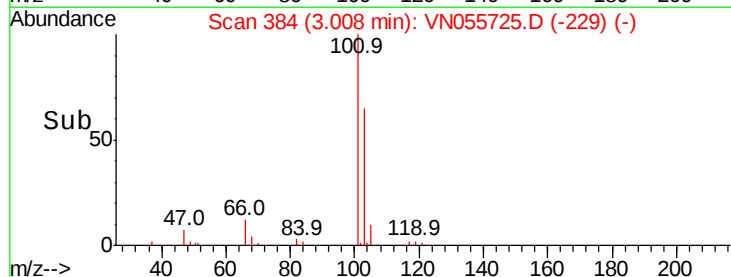
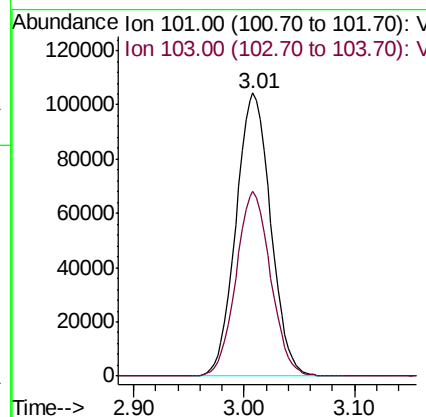
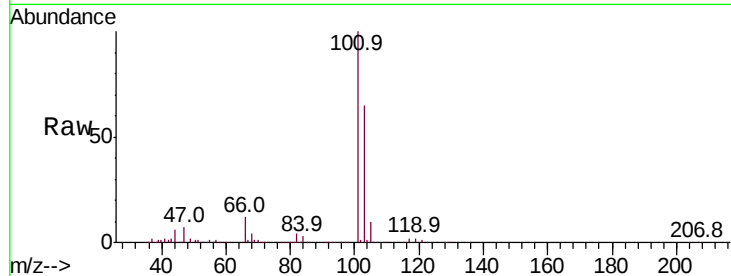
Trichlorofluoromethane
Concen: 43.622 ug/l
RT: 3.01 min Scan# 384
Delta R.T. -0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
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ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
101	100	227855		
103	65.1	52.6	78.8	

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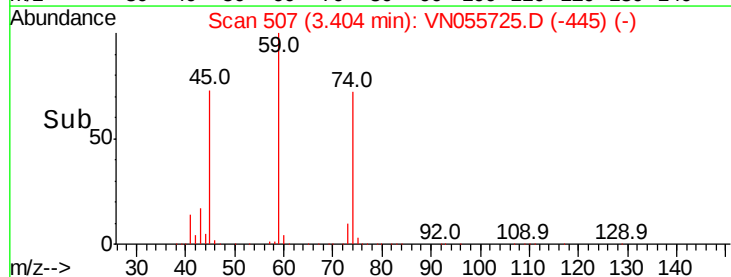
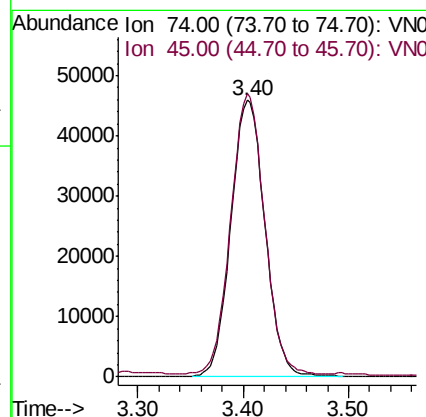
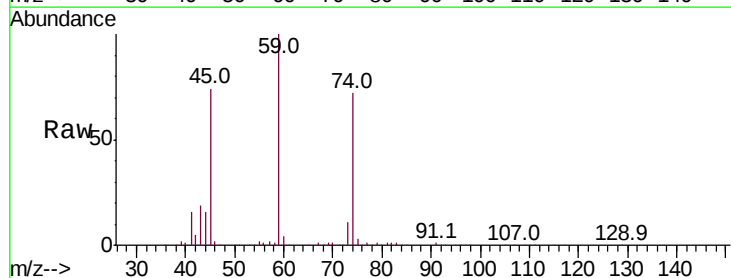
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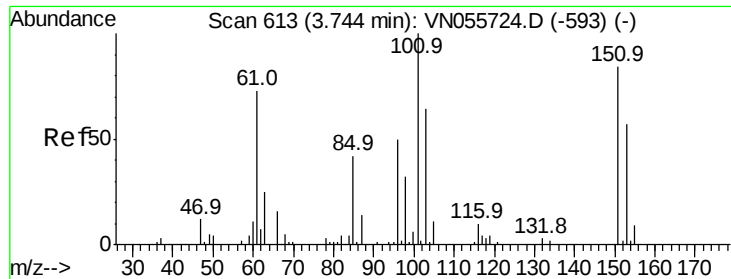


#8

Diethyl Ether
Concen: 47.360 ug/l
RT: 3.40 min Scan# 507
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	102716		
45	100.5	20.4	184.0	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 43.910 ug/l

RT: 3.74 min Scan# 612

Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

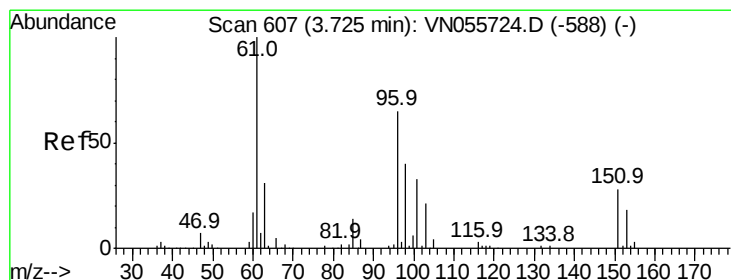
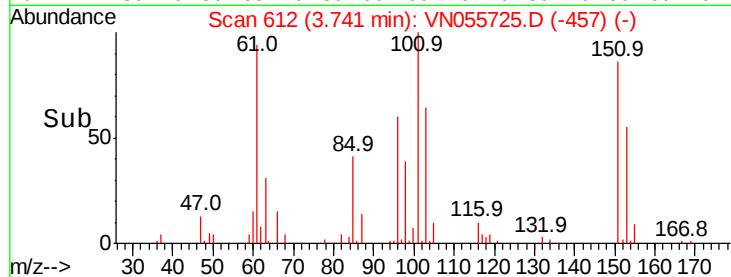
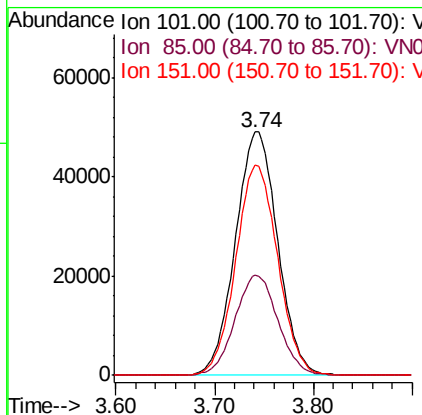
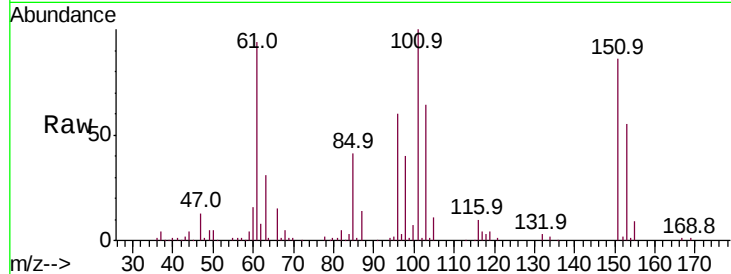
ClientSampleId :

VSTDIC050

Tot Ion:	101	Resp:	145864
Ion Ratio	Lower	Upper	
101	100		
85	41.8	0.0	86.6
151	85.8	0.0	172.2

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#10

1,1-Dichloroethene

Concen: 47.928 ug/l

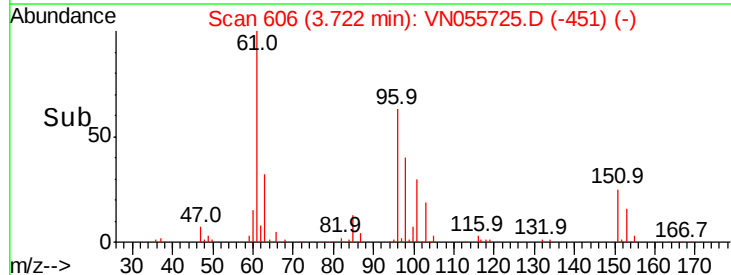
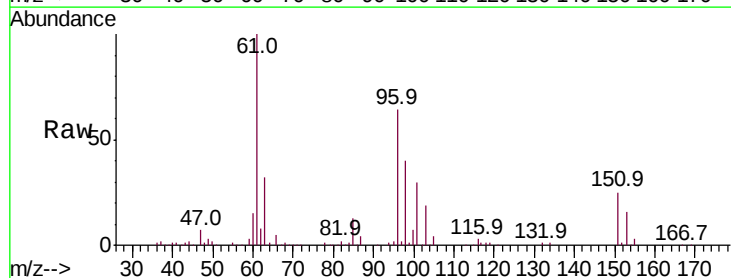
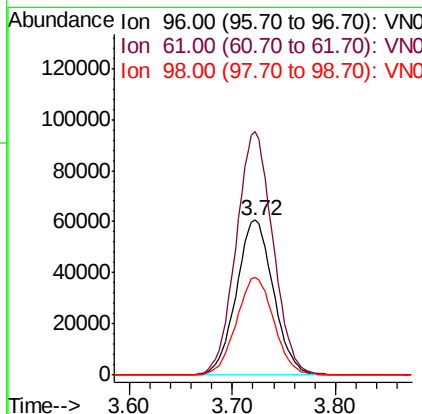
RT: 3.72 min Scan# 606

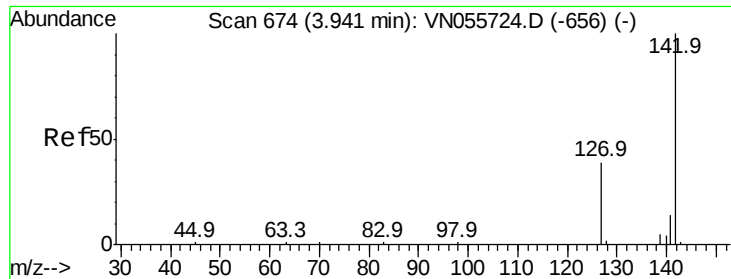
Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tgt Ion:	96	Resp:	151762
Ion Ratio	Lower	Upper	
96	100		
61	156.8	123.7	185.5
98	62.8	50.0	75.0





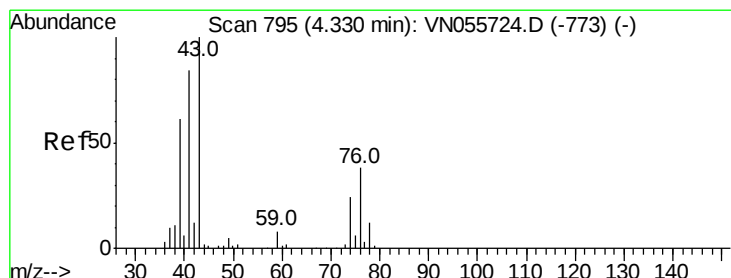
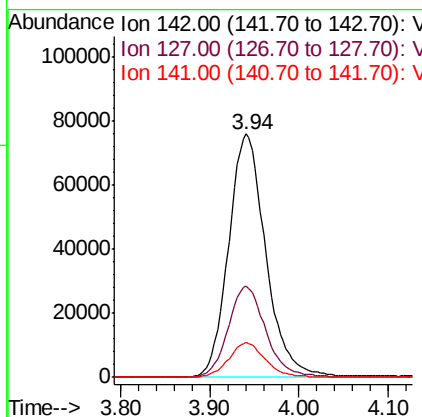
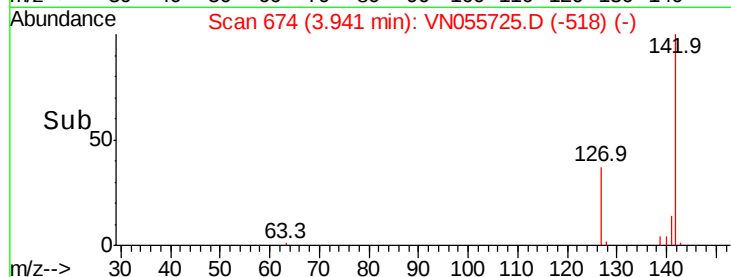
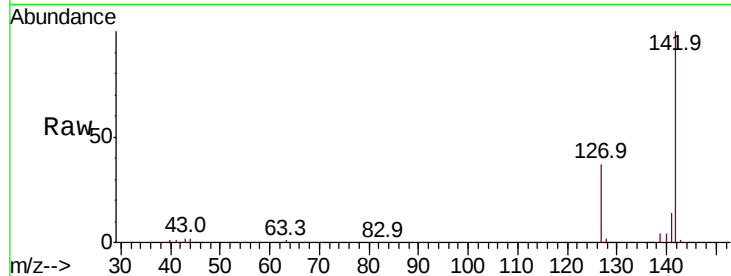
#11
Methyl Iodide
Concen: 44.992 ug/l
RT: 3.94 min Scan# 674
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
142	100		
127	37.4	19.6	58.7
141	14.3	6.9	20.6

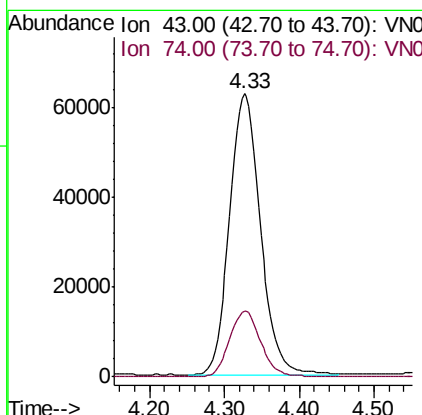
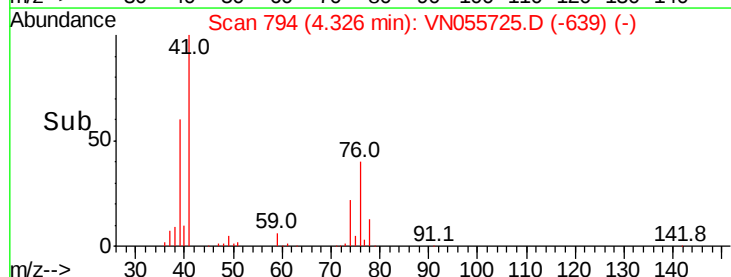
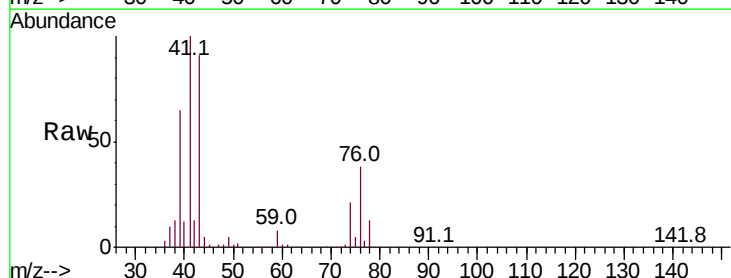
Manual Integrations
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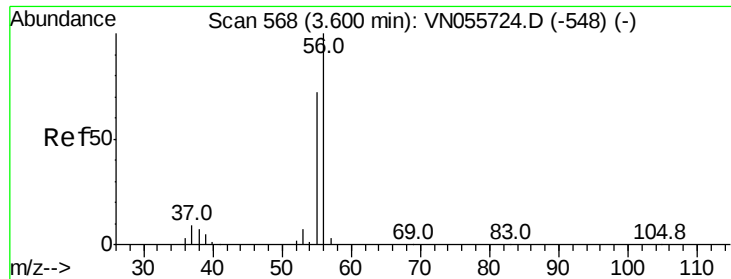
MMDadoda
5/23/2019 12:31:00 PM



#12
Methyl Acetate
Concen: 40.726 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.4	19.2	28.8





#13

Acrolein

Concen: 470.952 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 56 Resp: 126254

Ion Ratio Lower Upper

56 100

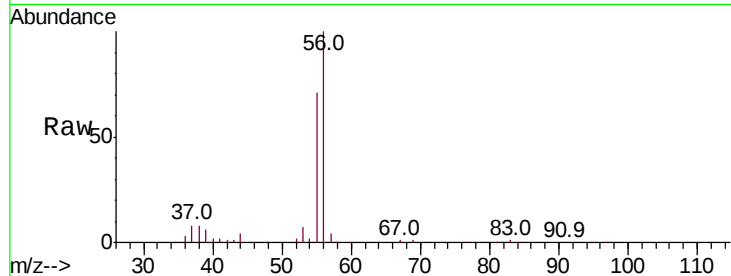
55 69.7 57.0 85.6

Manual Integrations

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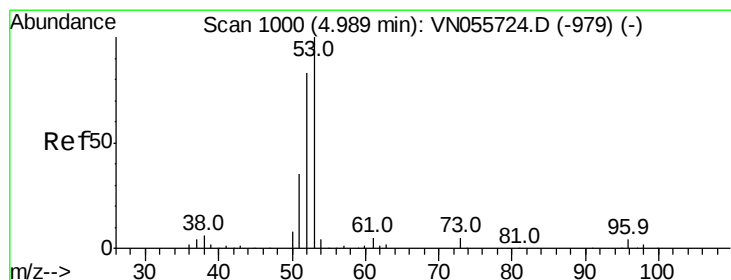
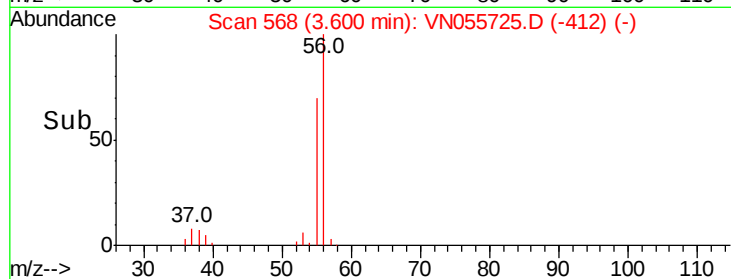
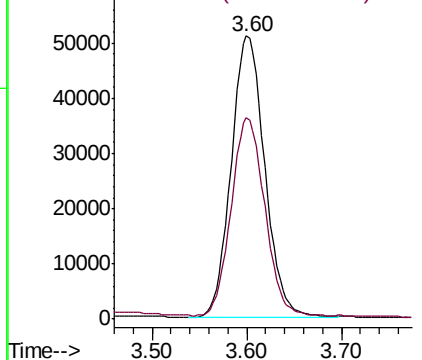
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 260.072 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

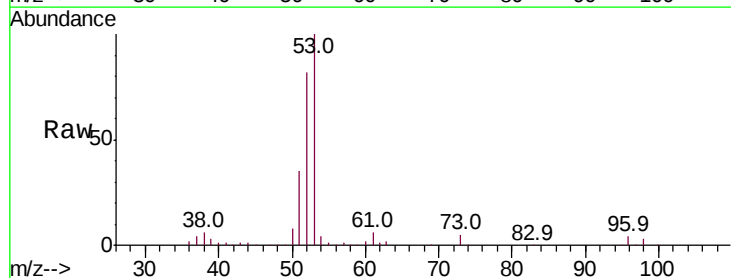
Tgt Ion: 53 Resp: 429559

Ion Ratio Lower Upper

53 100

52 82.8 41.1 123.4

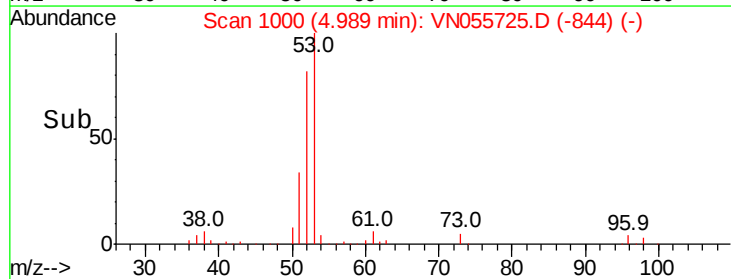
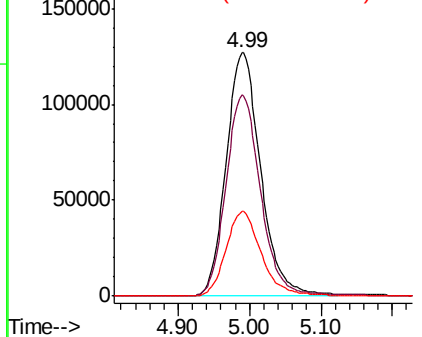
51 35.2 17.5 52.6

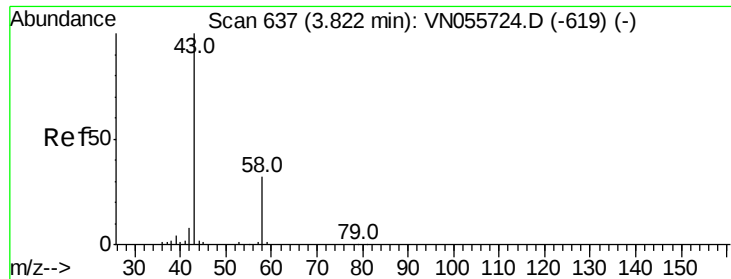


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 309.709 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tot Ion: 58 Resp: 131360

Ion Ratio Lower Upper

58 100

43 308.0 248.8 373.2

Instrument :

MSVOA_N

ClientSampleId :

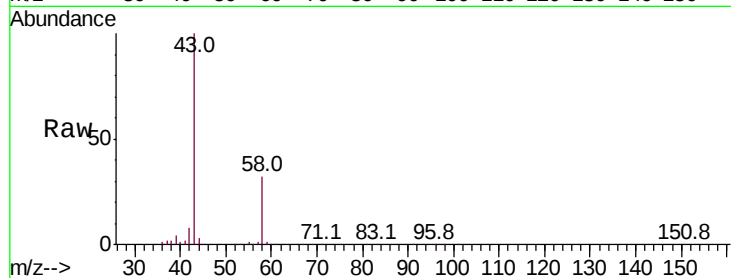
VSTDIC050

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

150000

100000

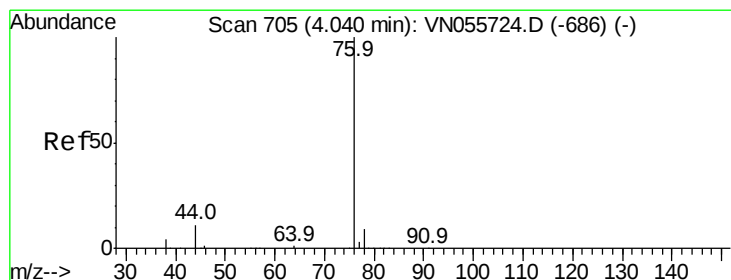
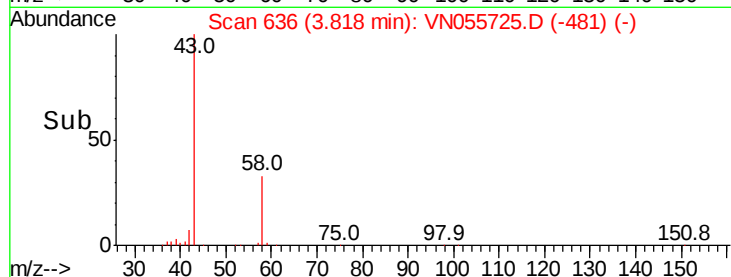
50000

0

3.70 3.80 3.90

3.82

Time-->



#16

Carbon Disulfide

Concen: 49.368 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.00 min

Lab File: VN055725.D

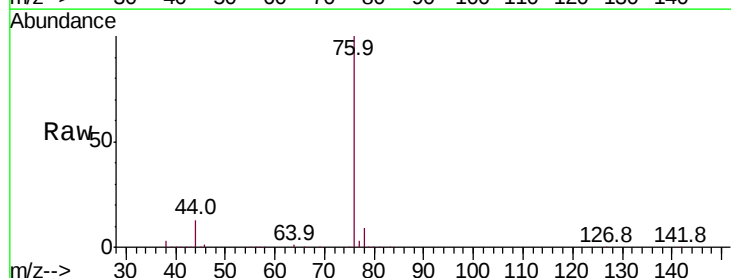
Acq: 22 May 2019 17:47

Tgt Ion: 76 Resp: 432947

Ion Ratio Lower Upper

76 100

78 9.3 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

150000

100000

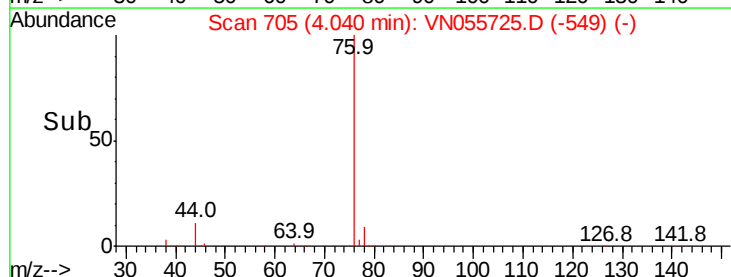
50000

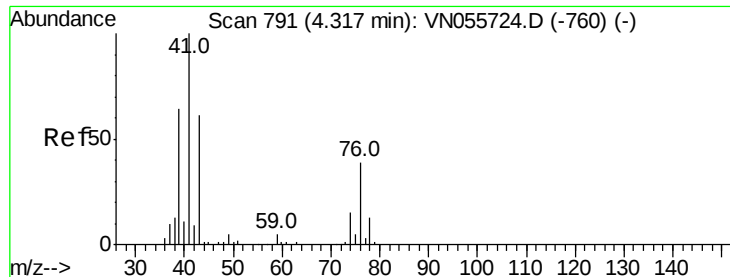
0

3.90 4.00 4.10 4.20

4.04

Time-->





#17

Allvl chloride

Concen: 41.438 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN055725.D

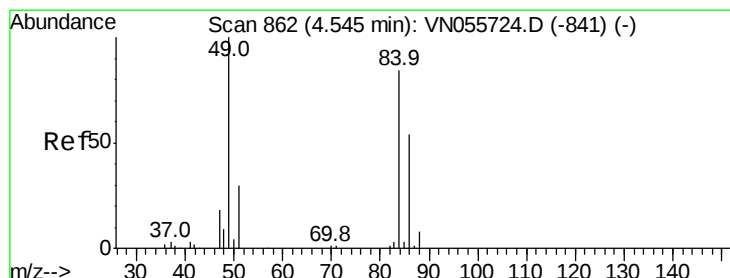
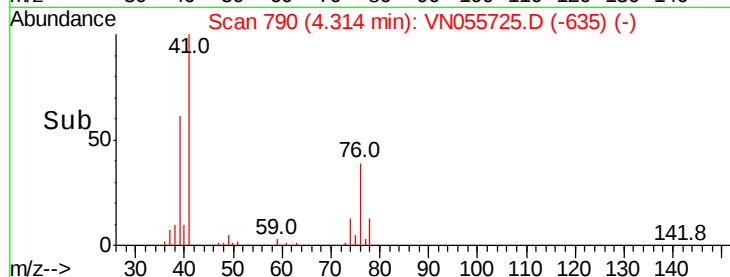
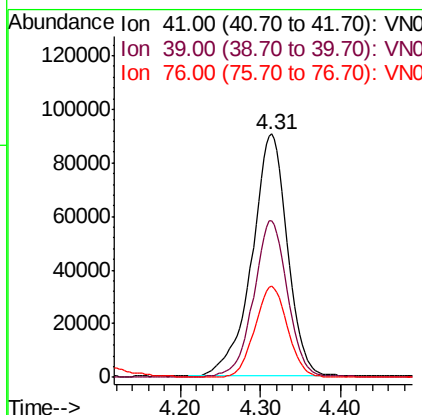
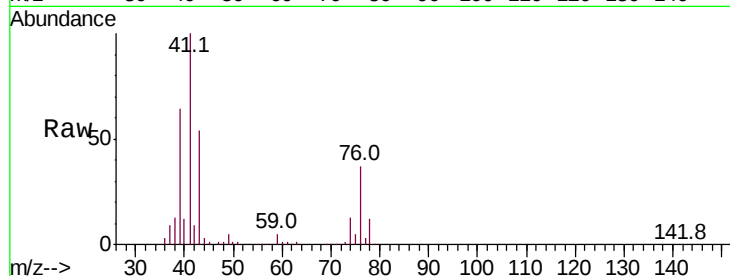
Acq: 22 May 2019 17:47

Tot Ion	Ratio	Lower	Upper
41	100		
39	64.4	31.8	95.3
76	37.3	19.3	57.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Manual Integrations
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#18

Methylene Chloride

Concen: 44.860 ug/l

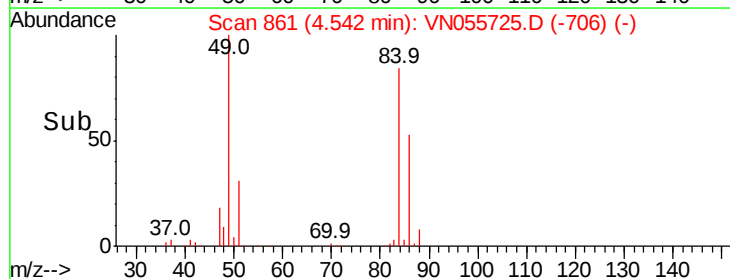
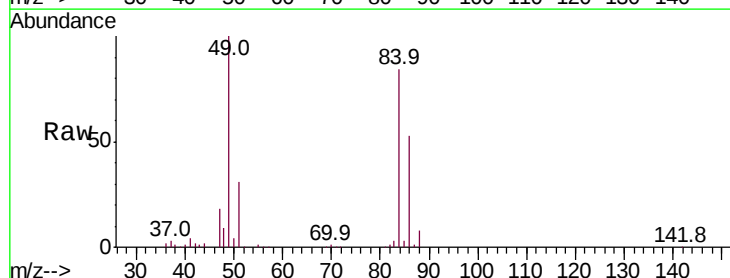
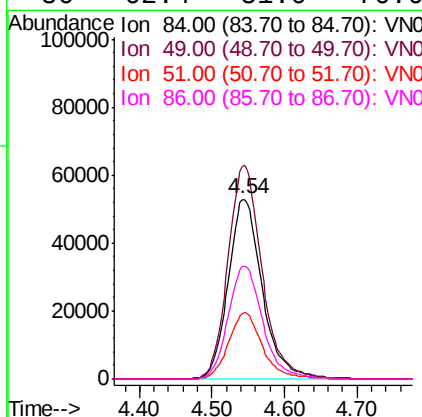
RT: 4.54 min Scan# 861

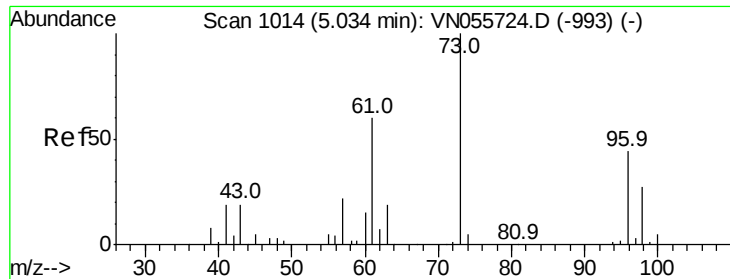
Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.3	94.7	142.1
51	36.5	28.6	43.0
86	62.4	51.0	76.6





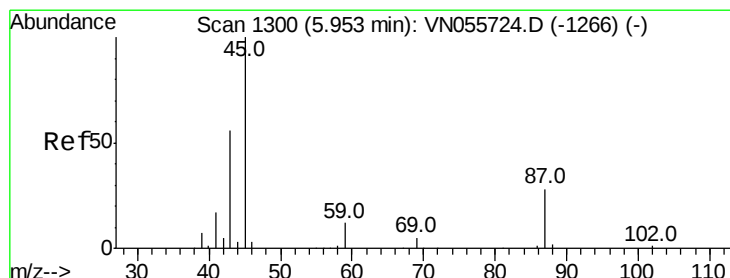
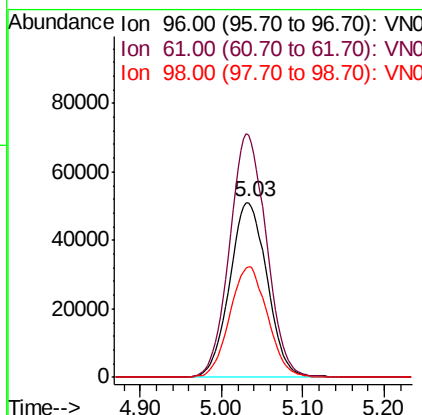
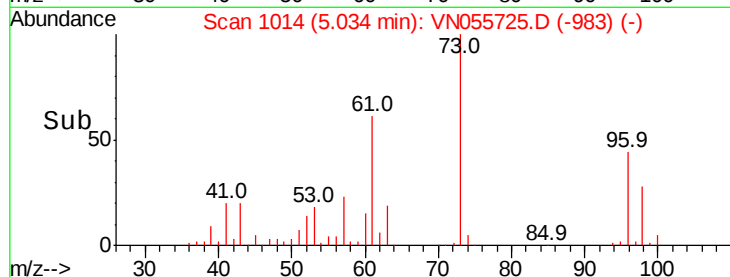
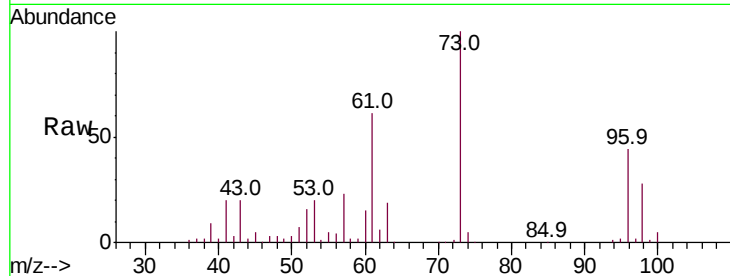
#19
trans-1,2-Dichloroethene
Concen: 47.463 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	138.6	108.5	162.7
98	63.5	49.4	74.2

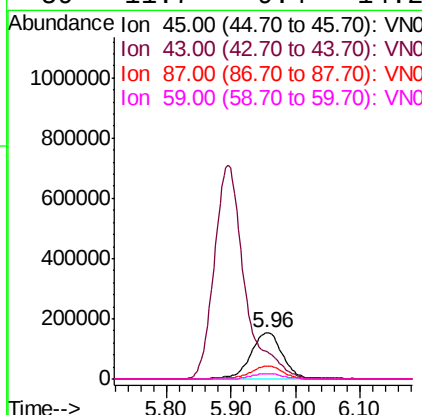
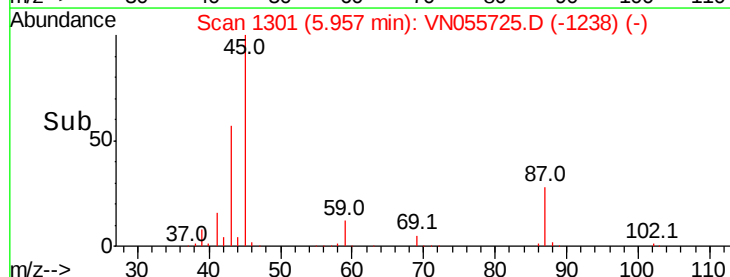
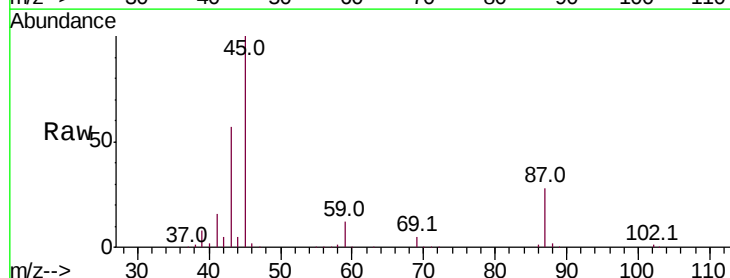
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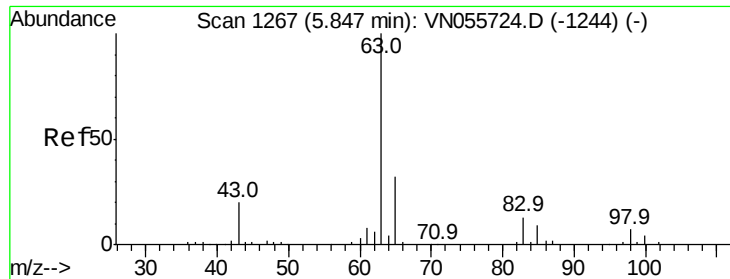
MMDadoda
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#20
Diisopropyl ether
Concen: 40.085 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
45	100		
43	55.6	48.6	73.0
87	27.8	22.6	34.0
59	11.7	9.4	14.2





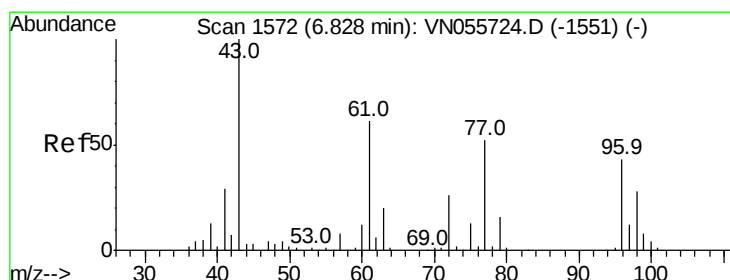
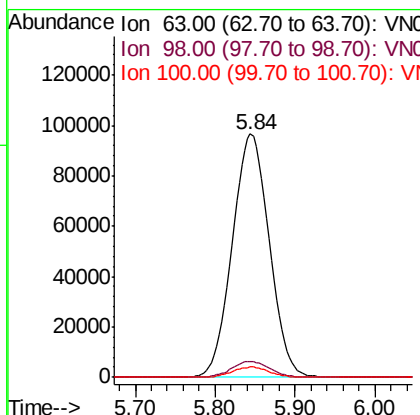
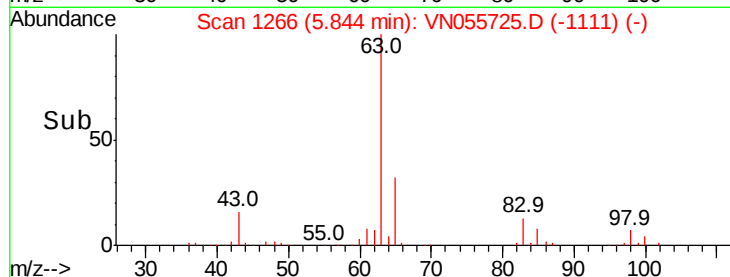
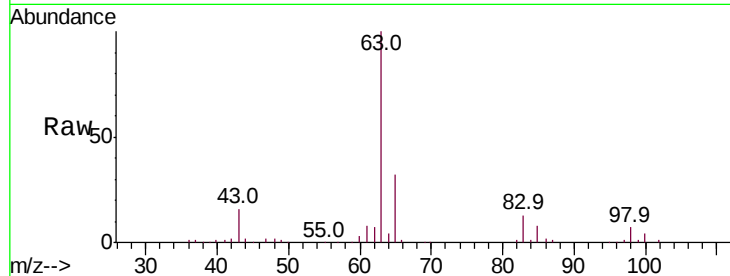
#21
 1,1-Dichloroethane
 Concen: 43.141 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	6.6	3.4	10.2	
100	4.2	2.2	6.6	

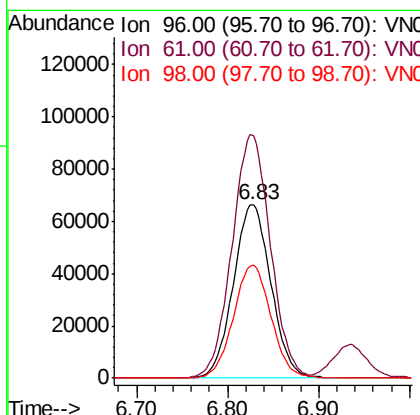
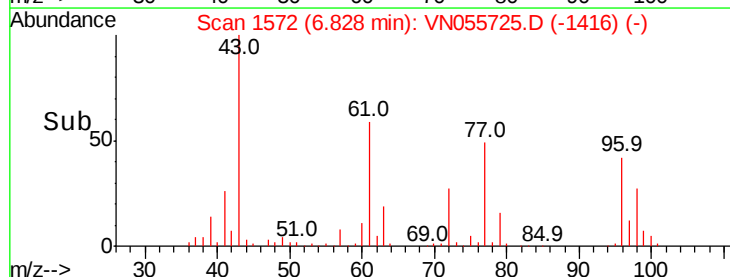
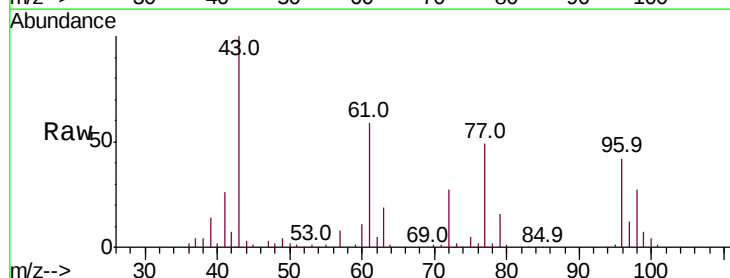
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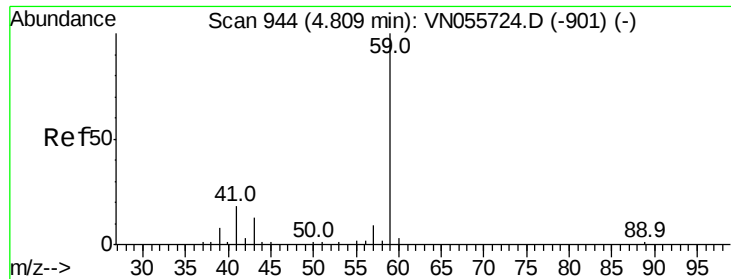
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 5/23/2019 12:31:00 PM



#22
 cis-1,2-Dichloroethene
 Concen: 47.575 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
96	100			
61	143.2	115.7	173.5	
98	65.0	51.5	77.3	





#23

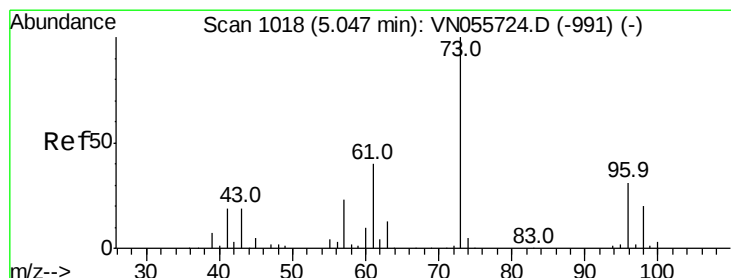
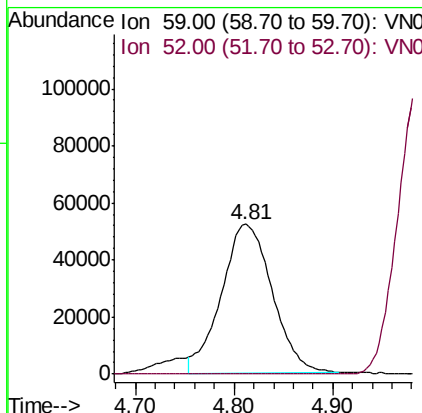
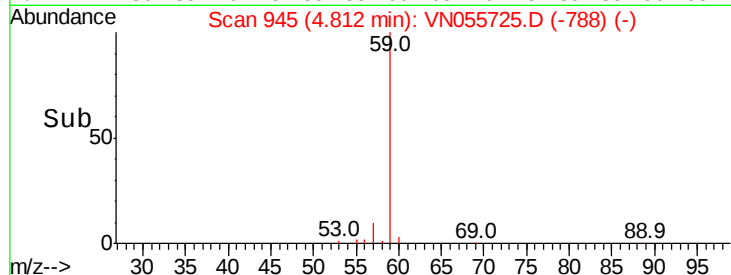
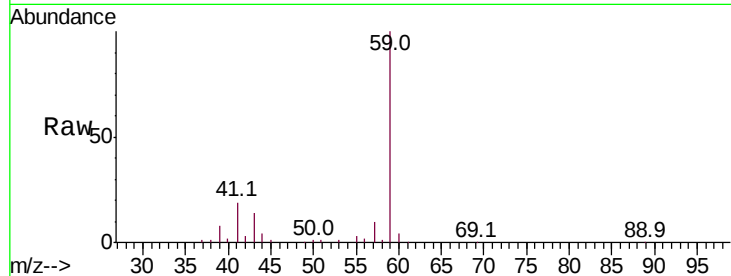
tert-Butyl Alcohol
 Concen: 407.282 ug/l
 RT: 4.81 min Scan# 945
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

Tot Ion: 59 Resp: 187019
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

Manual Integrations
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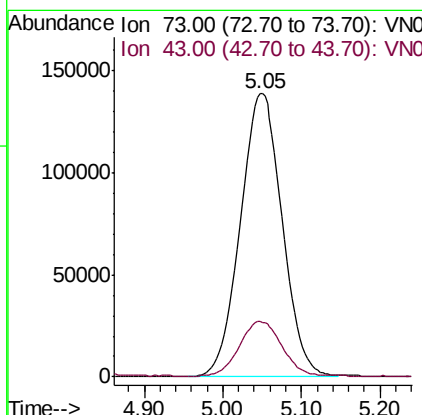
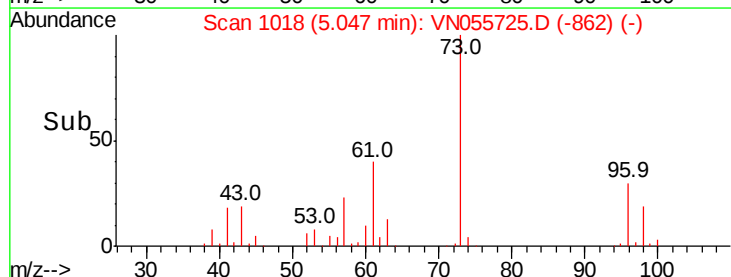
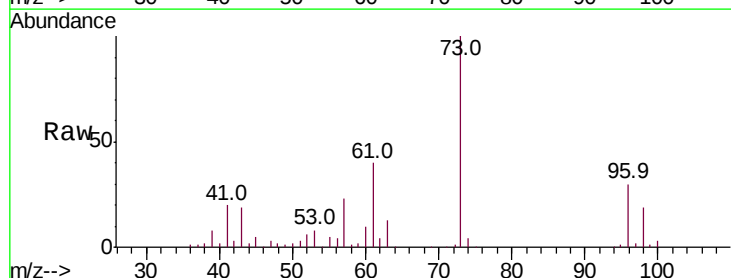
MMDadoda
 5/23/2019 12:31:00 PM

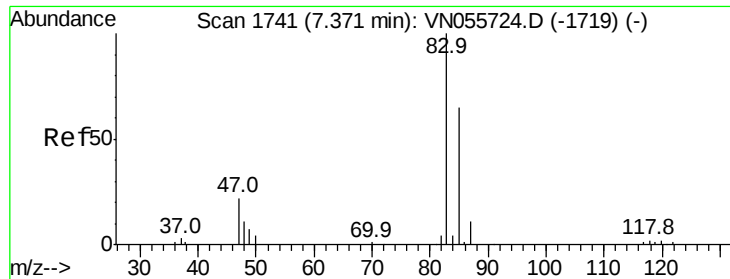


#24

Methyl tert-Butyl Ether
 Concen: 49.784 ug/l
 RT: 5.05 min Scan# 1018
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion: 73 Resp: 518975
 Ion Ratio Lower Upper
 73 100
 43 19.3 15.7 23.5





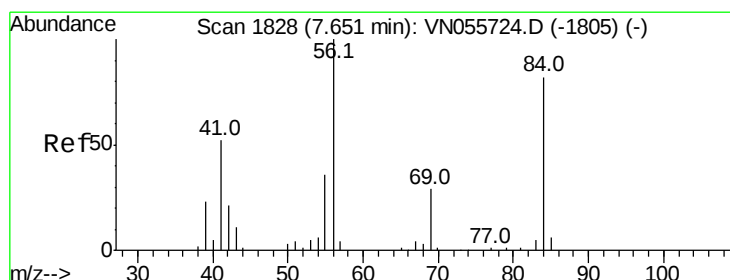
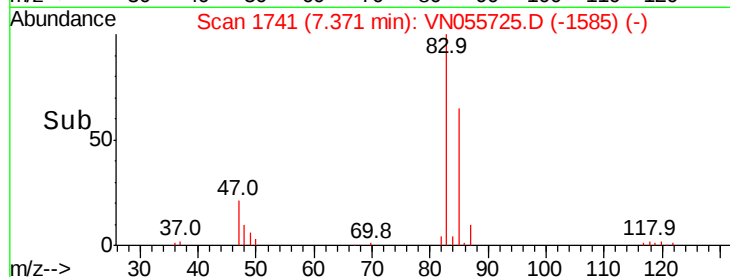
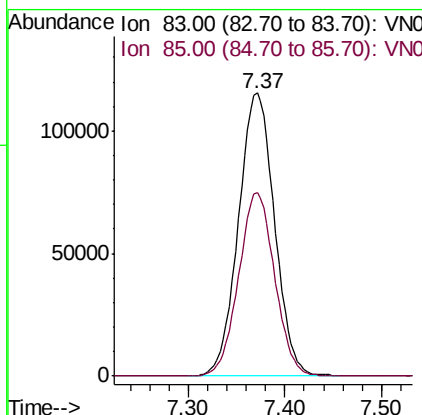
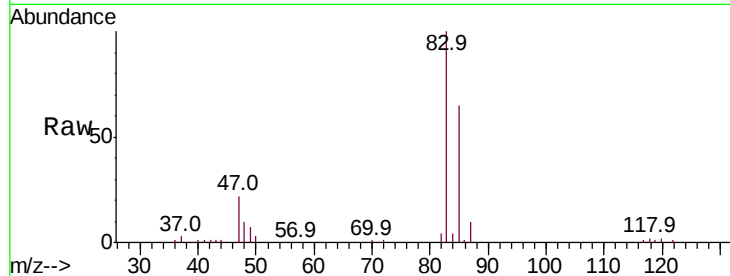
#25
Chloroform
Concen: 45.013 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion: 83 Resp: 299254
Ion Ratio Lower Upper
83 100
85 64.7 51.7 77.5

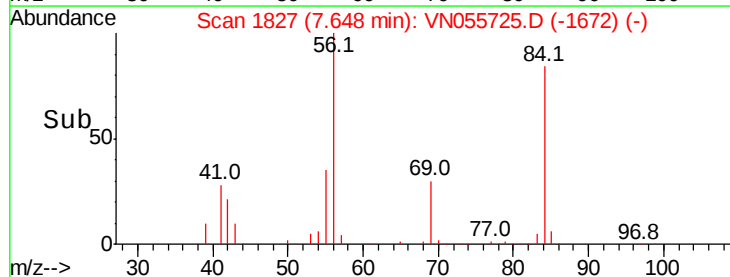
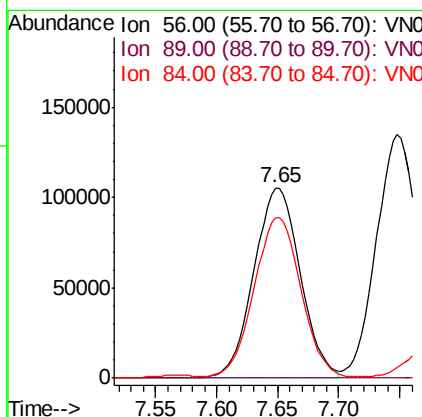
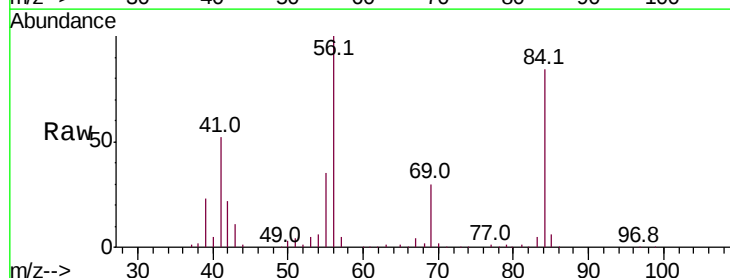
Manual Integrations
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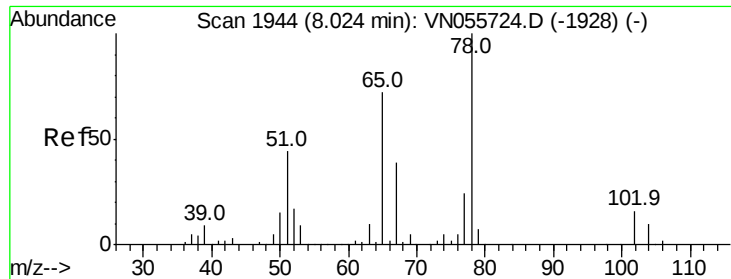
MMDadoda
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#26
Cyclohexane
Concen: 44.934 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion: 56 Resp: 278459
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 85.6 67.2 100.8





#27

1,2-Dichloroethane-d4

Concen: 25.674 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 65 Resp: 114548

Ion Ratio Lower Upper

65 100

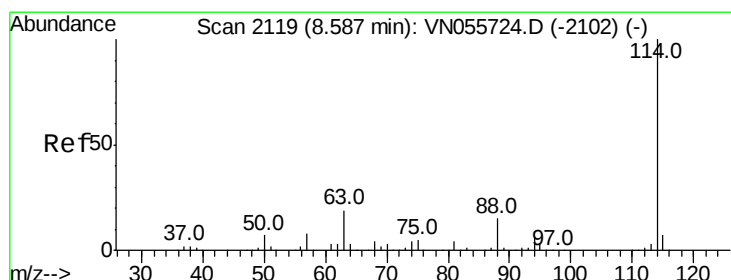
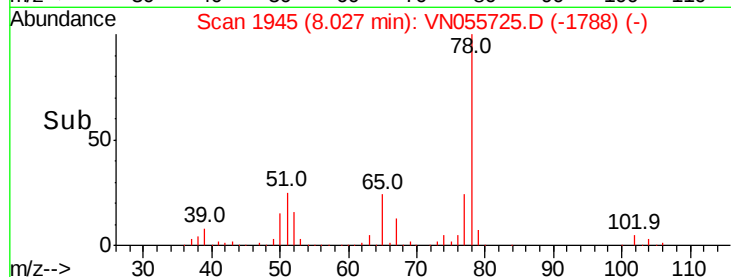
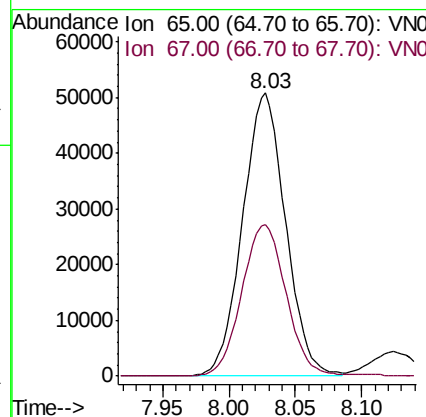
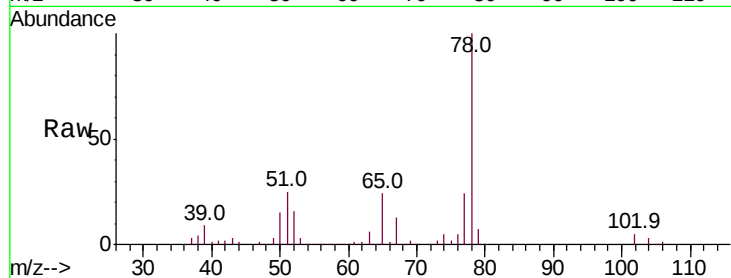
67 55.3 43.5 65.3

Manual Integrations

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

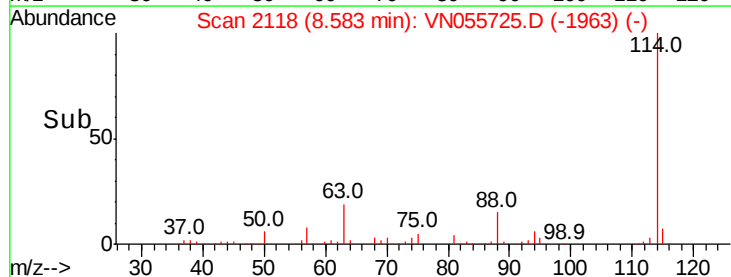
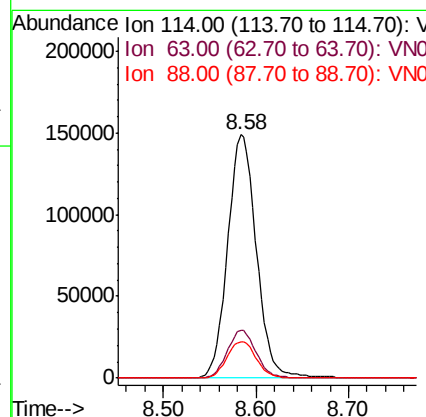
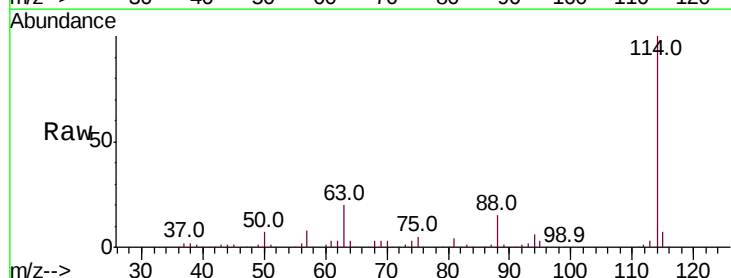
Tgt Ion: 114 Resp: 320703

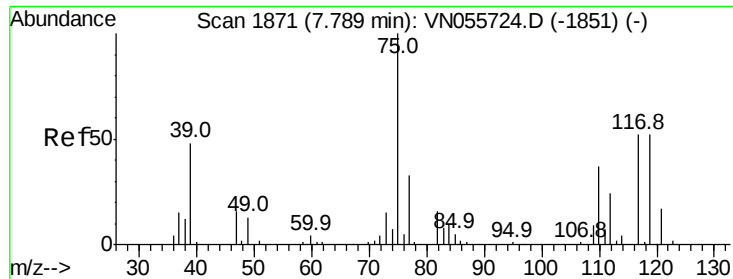
Ion Ratio Lower Upper

114 100

63 19.8 15.6 23.4

88 15.3 12.3 18.5





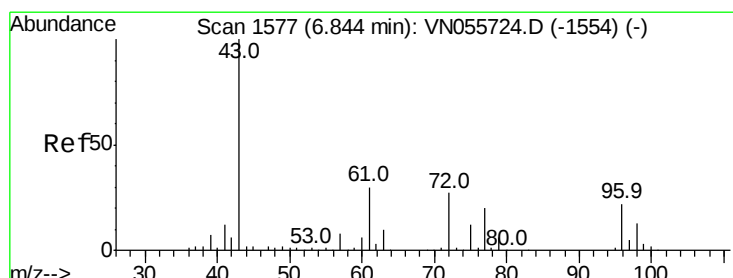
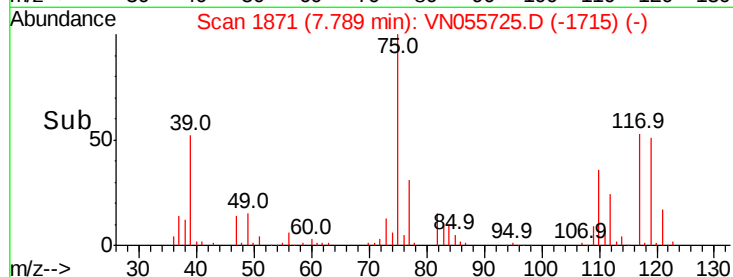
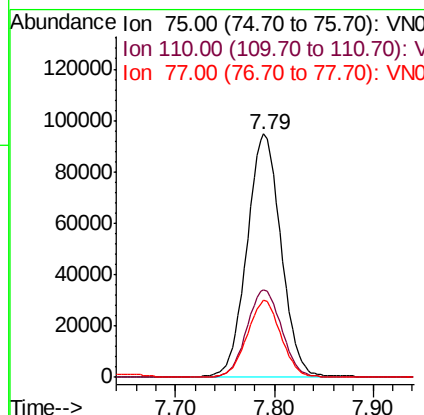
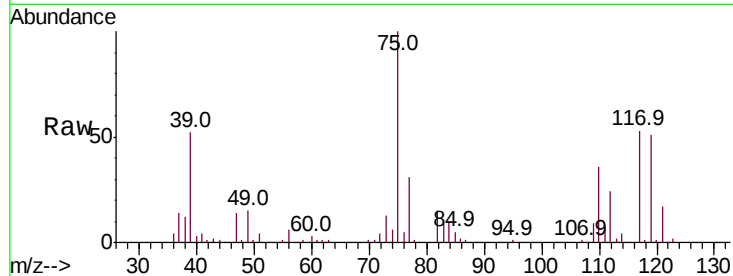
#29
 1,1-Dichloropropene
 Concen: 45.598 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
75	100	226740		
110	36.6	0.0	74.8	
77	31.6	0.0	65.2	

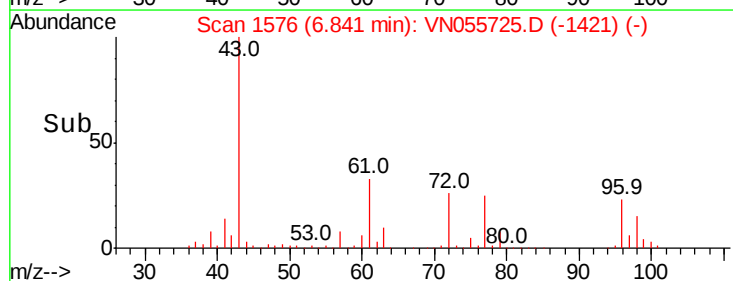
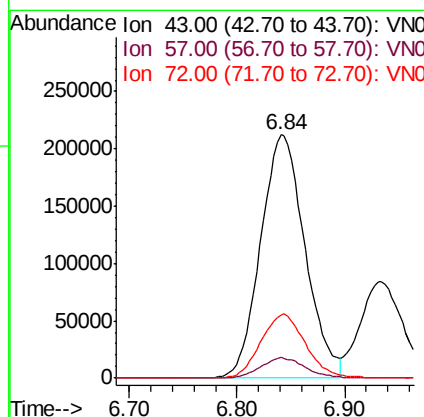
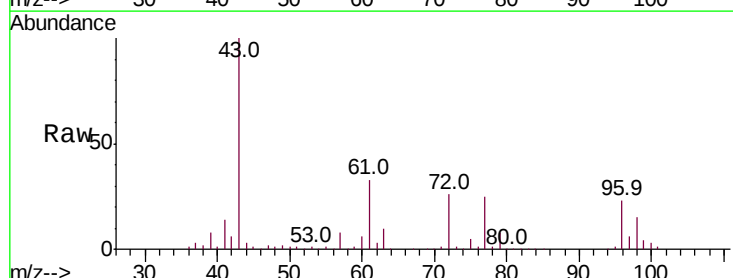
Manual Integrations
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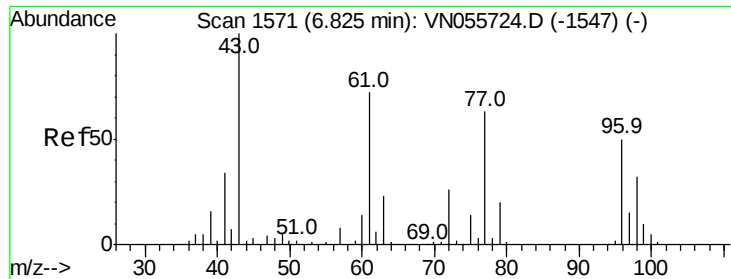
MMDadoda
 5/23/2019 12:31:00 PM



#30
 2-Butanone
 Concen: 283.139 ug/l
 RT: 6.84 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	601407		
57	8.3	6.6	10.0	
72	26.9	21.7	32.5	





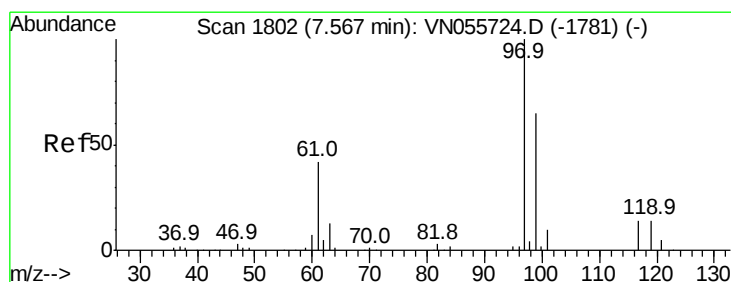
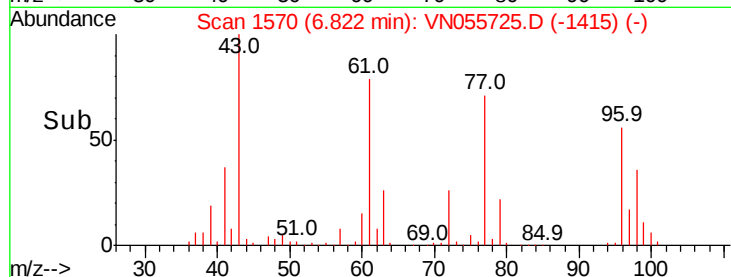
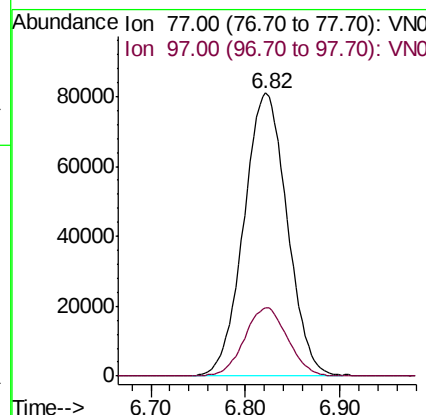
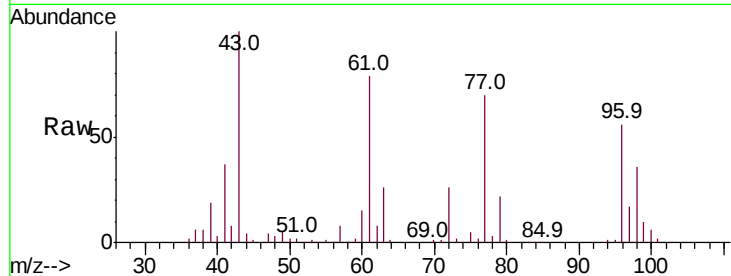
#31
 2,2-Dichloropropane
 Concen: 52.389 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
77	100		
97	24.2	19.2	28.8

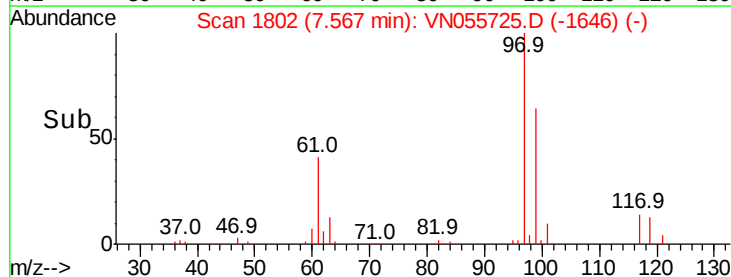
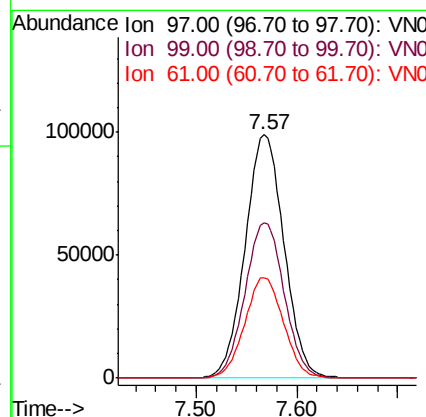
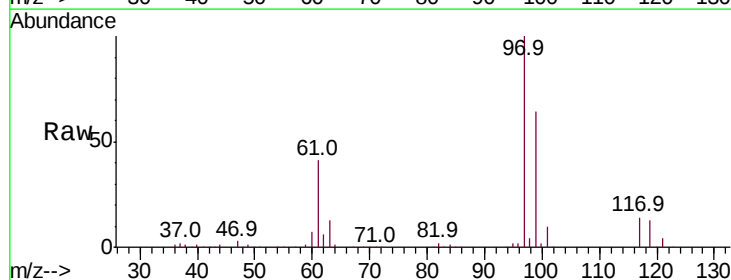
Manual Integrations
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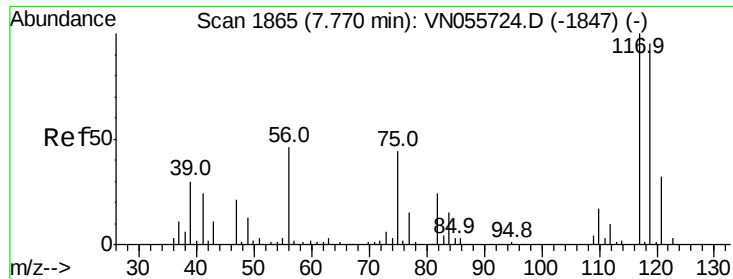
MMDadoda
 5/23/2019 12:31:00 PM



#32
 1,1,1-Trichloroethane
 Concen: 47.306 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.7	77.5
61	41.1	33.1	49.7





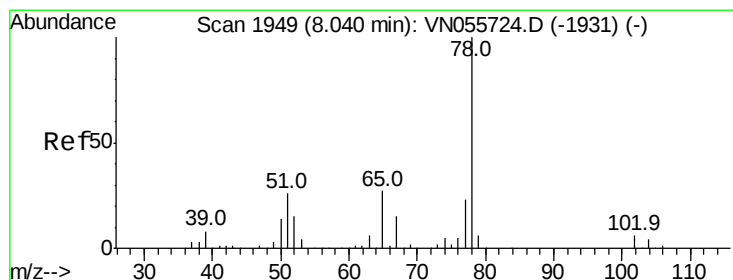
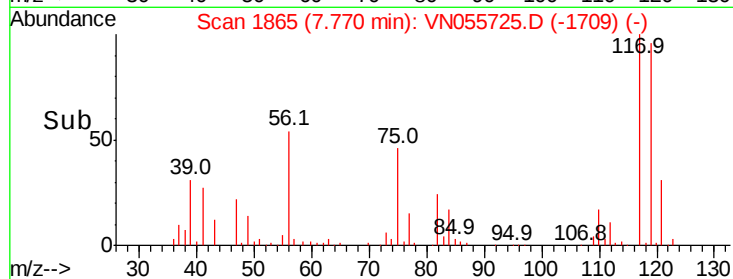
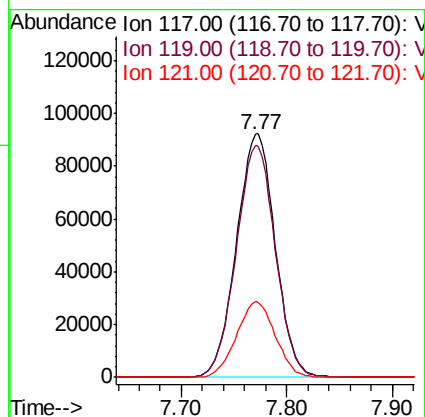
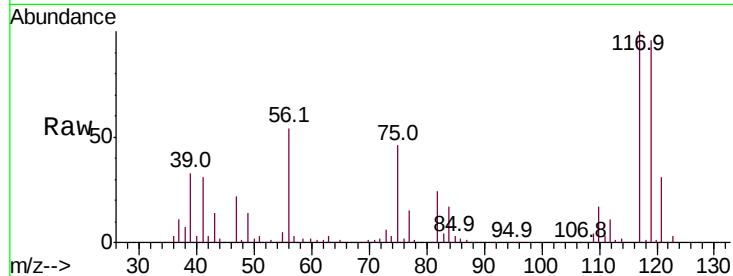
#33
Carbon Tetrachloride
Concen: 49.556 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.8	113.8
121	31.0	25.4	38.0

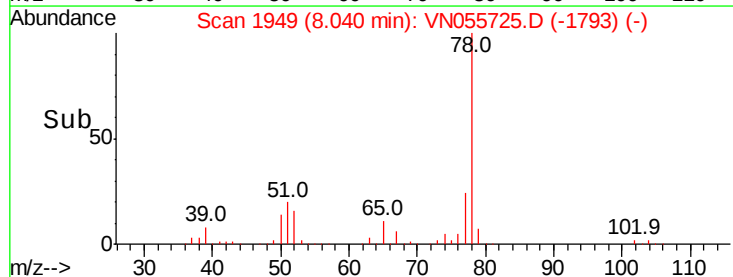
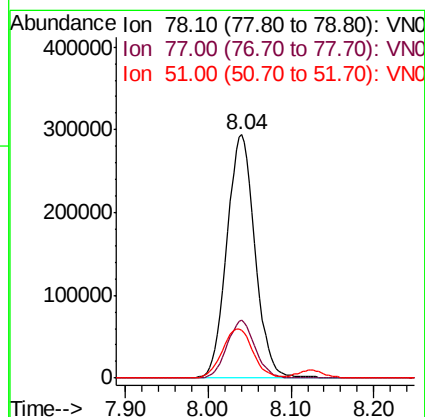
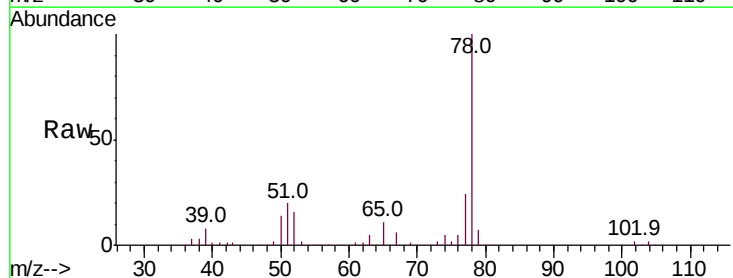
Manual Integrations
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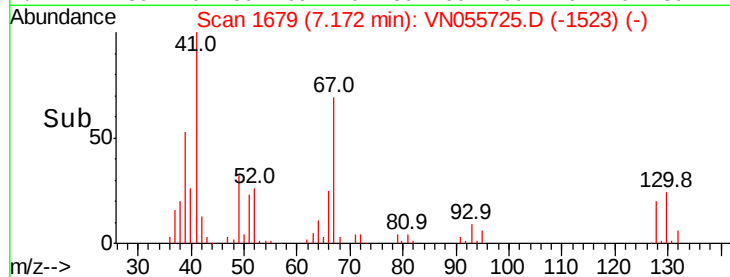
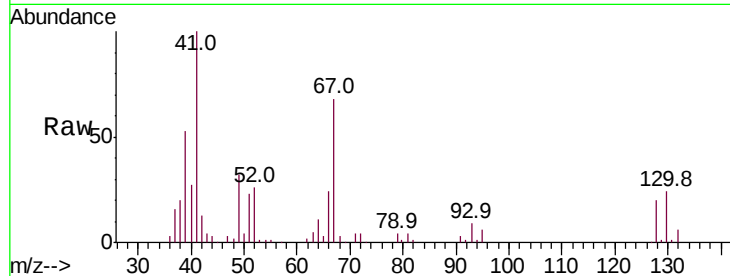
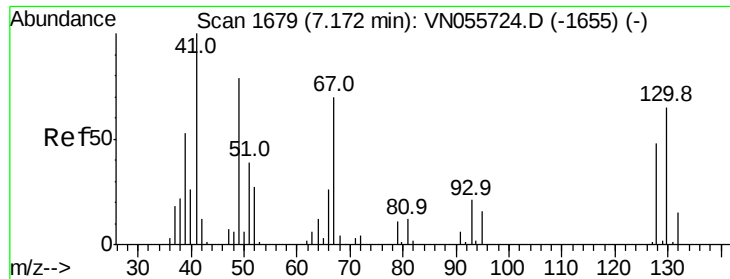
MMDadoda
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#34
Benzene
Concen: 46.438 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2
51	19.7	20.6	31.0#





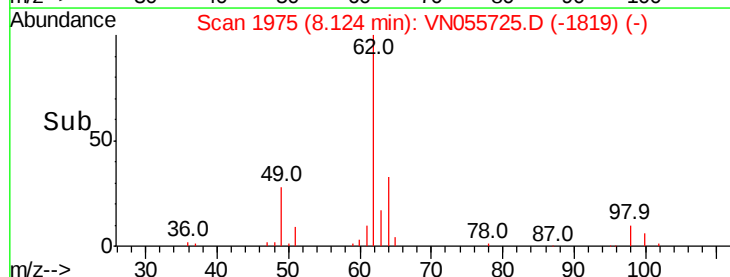
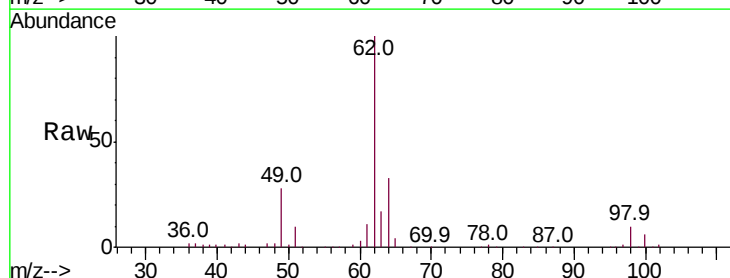
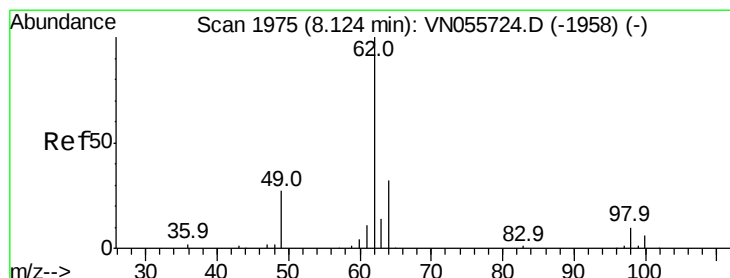
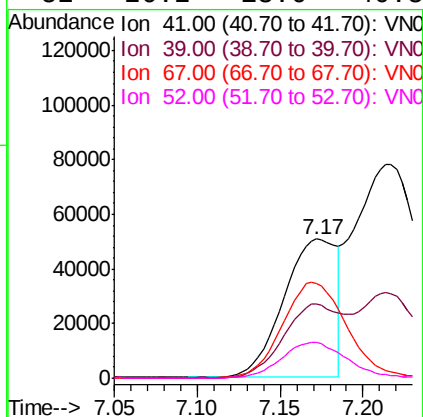
#35
Methacrylonitrile
Concen: 49.517 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.3	26.7	80.1	
67	68.8	34.9	104.7	
52	26.2	13.6	40.8	

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

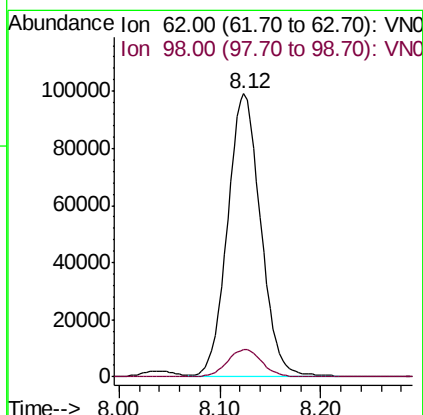
Manual Integrations
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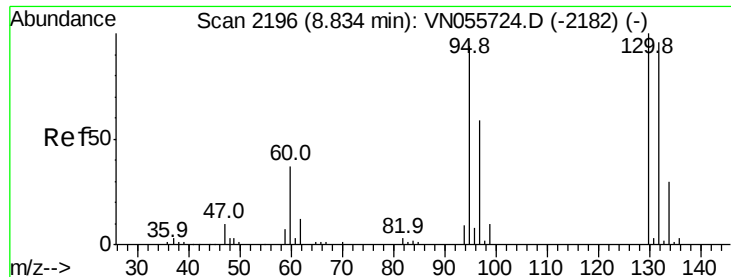
MMDadoda
5/23/2019 12:31:00 PM



#36
1,2-Dichloroethane
Concen: 42.982 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.3	8.2	12.2	





#37

Trichloroethene

Concen: 50.051 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:130 Resp: 192695

Ion Ratio Lower Upper

130 100

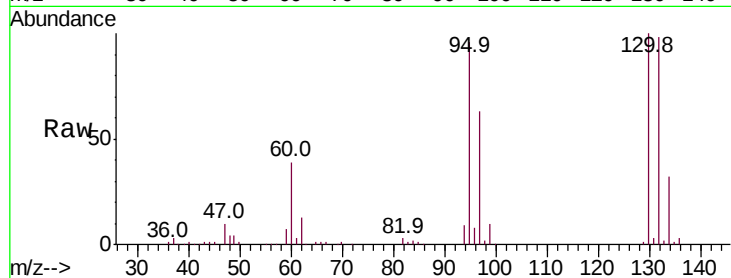
95 96.3 75.6 113.4

Manual Integrations

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MMDadoda

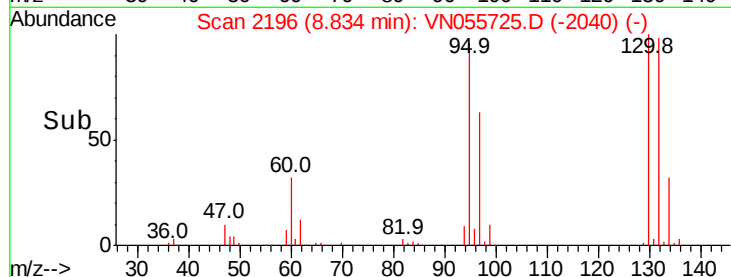
5/23/2019 12:31:00 PM



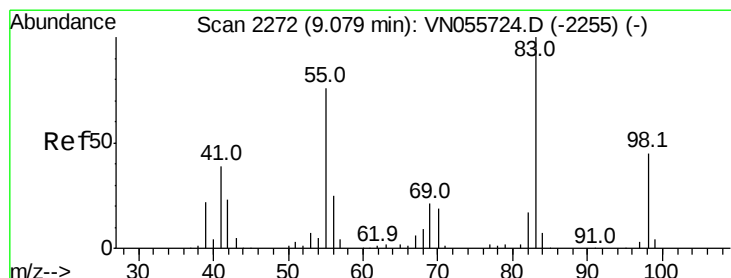
Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN

8.83



Time--> 8.70 8.80 8.90 9.00



#38

Methylcyclohexane

Concen: 51.049 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

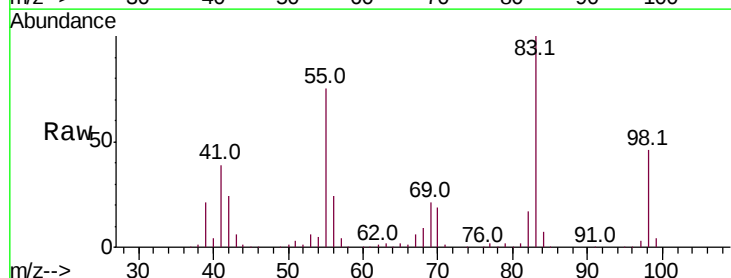
Tgt Ion: 83 Resp: 280439

Ion Ratio Lower Upper

83 100

55 74.4 37.8 113.4

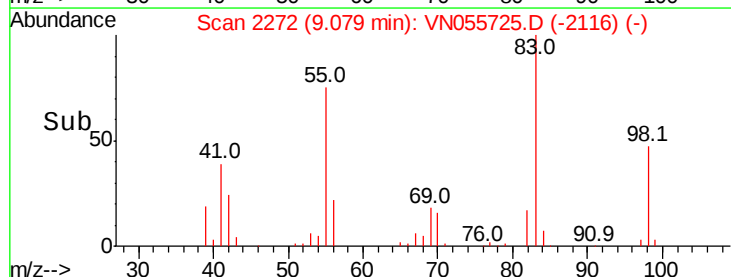
98 46.1 22.6 67.8



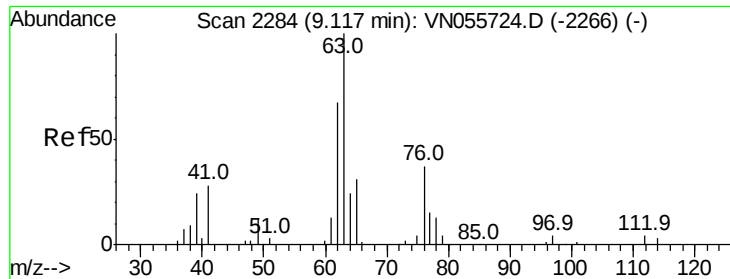
Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN



Time--> 9.00 9.10 9.20



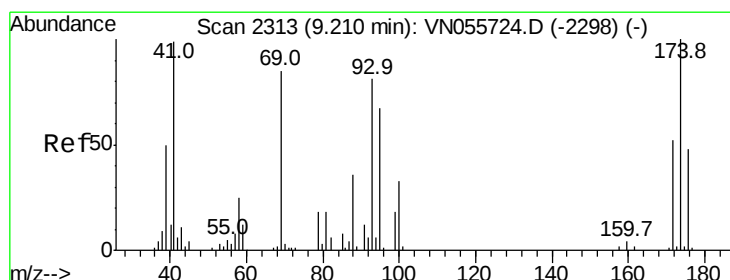
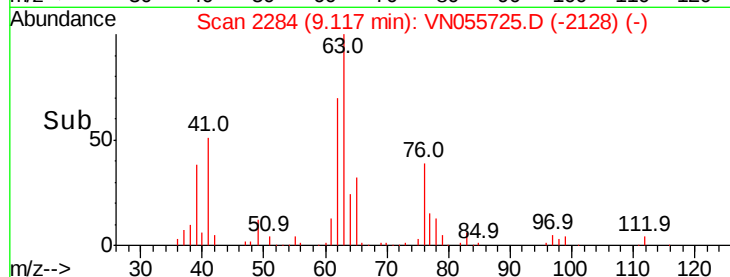
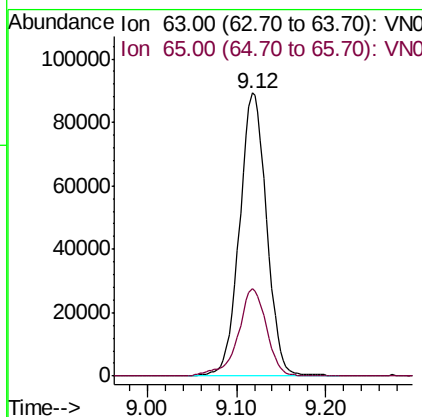
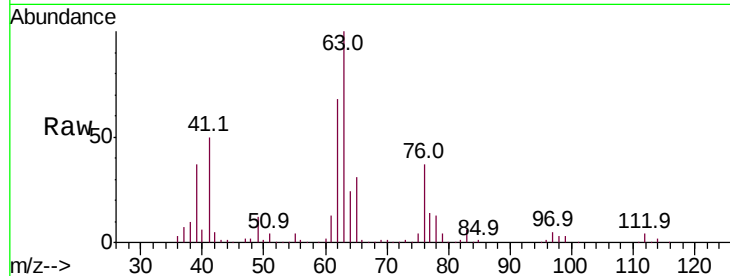
#39
 1,2-Dichloropropane
 Concen: 44.445 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.8	38.8

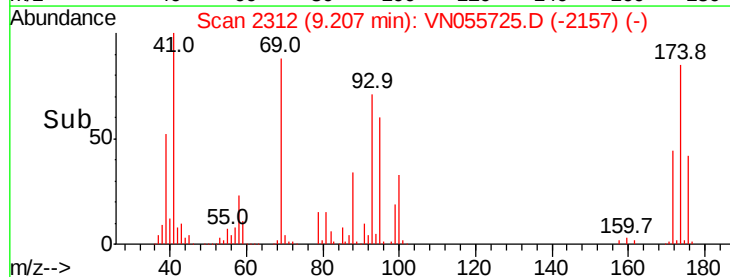
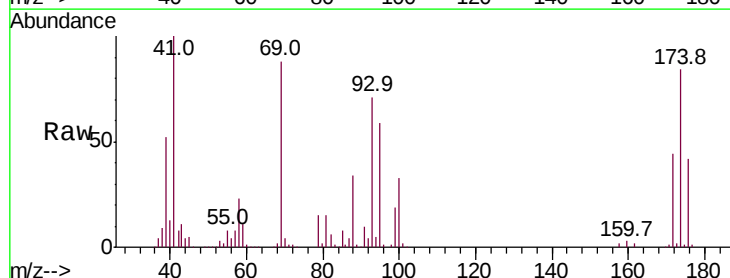
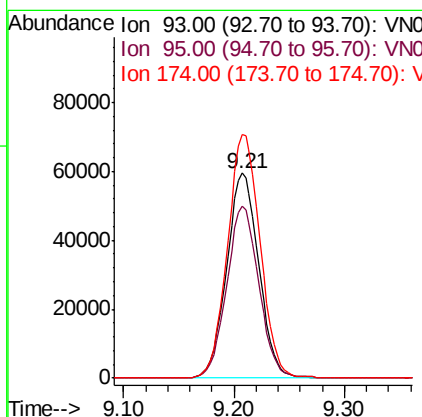
Manual Integrations
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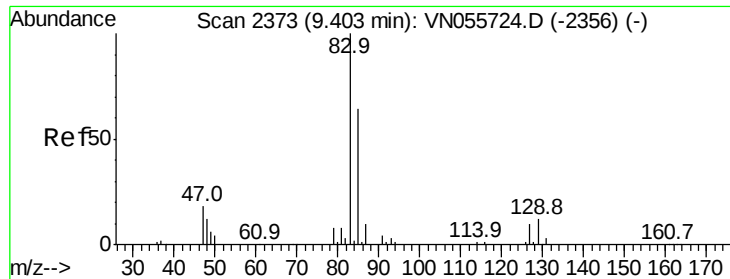
MMDadoda
 5/23/2019 12:31:00 PM



#40
 Dibromomethane
 Concen: 48.514 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.9	0.0	170.6
174	120.5	0.0	248.4





#41

Bromodichloromethane

Concen: 47.907 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

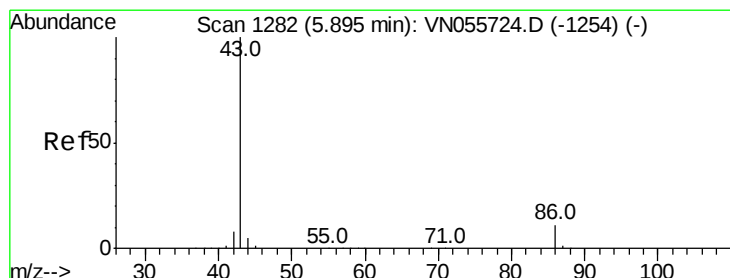
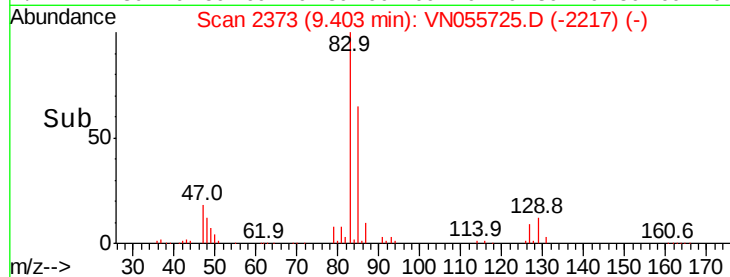
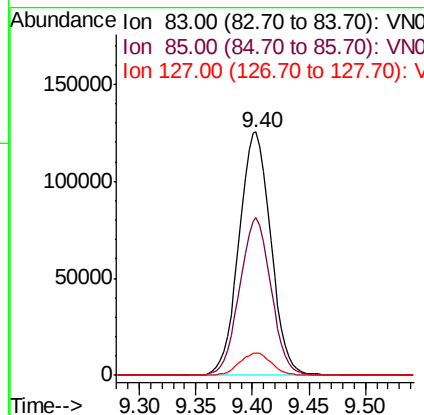
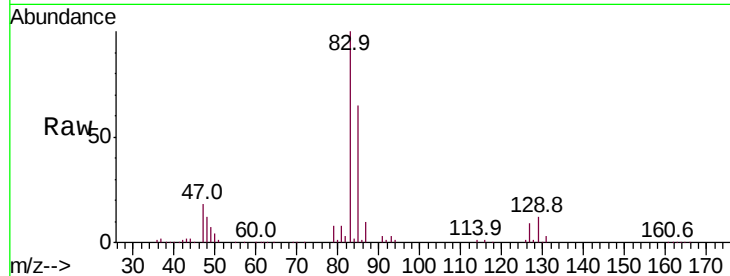
ClientSampleId :

VSTDIC050

Tot Ion:	83	Resp:	245210
Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.0
127	9.2	7.7	11.5

Manual Integrations
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5/23/2019 12:31:00 PM



#42

Vinyl Acetate

Concen: 237.735 ug/l

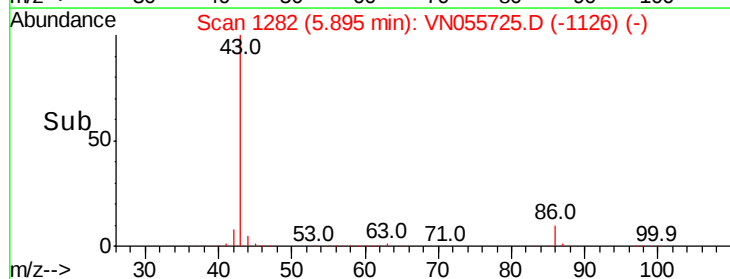
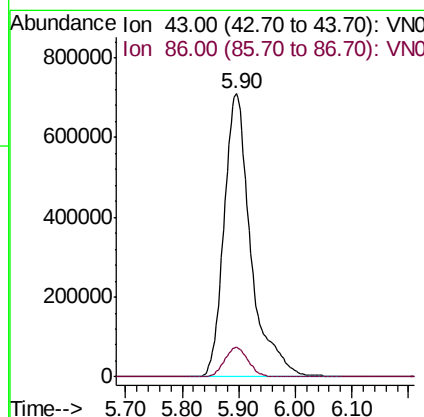
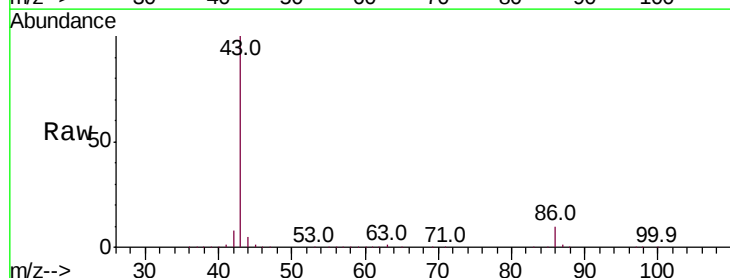
RT: 5.90 min Scan# 1282

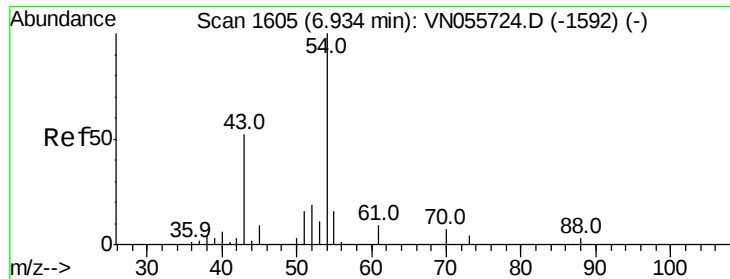
Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tgt Ion:	43	Resp:	2334131
Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.4	11.2





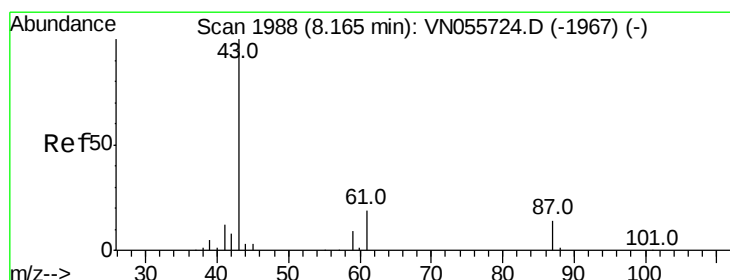
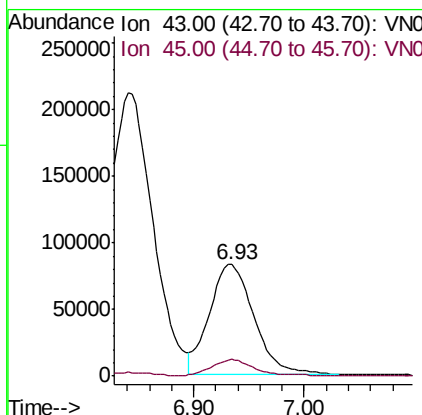
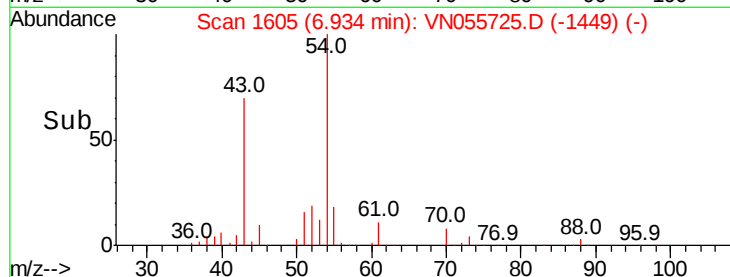
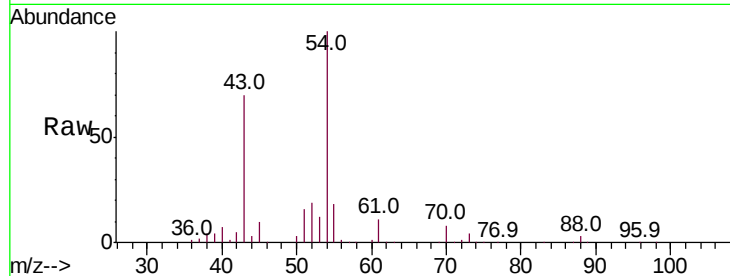
#43
Ethyl Acetate
Concen: 52.385 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 43 Resp: 229520
Ion Ratio Lower Upper
43 100
45 15.6 0.0 0.0#

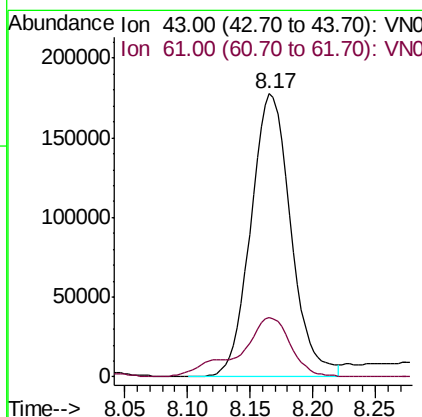
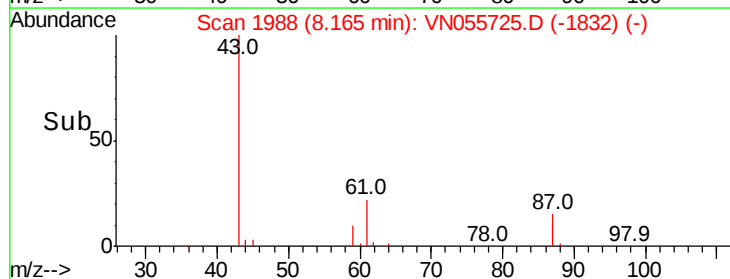
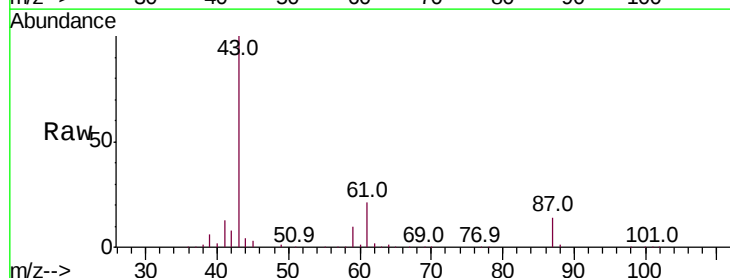
Manual Integrations
APPROVED

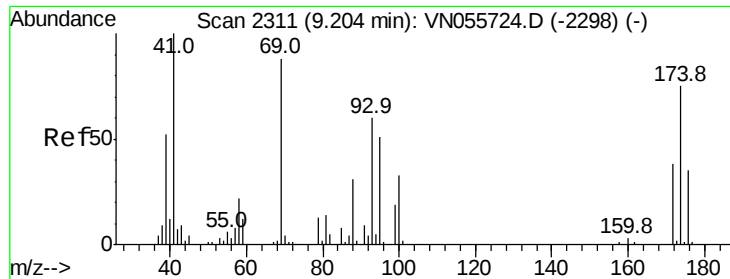
MMDadoda
5/23/2019 12:31:00 PM



#44
Isopropyl Acetate
Concen: 50.414 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion: 43 Resp: 393270
Ion Ratio Lower Upper
43 100
61 20.8 22.1 33.1#





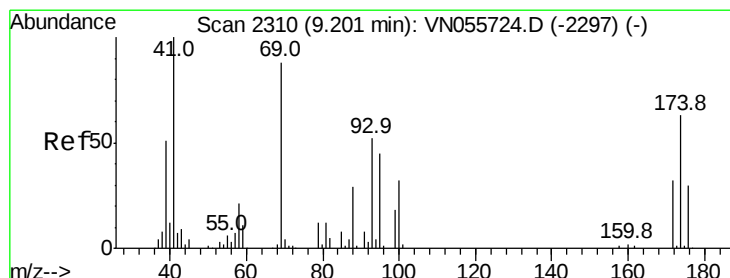
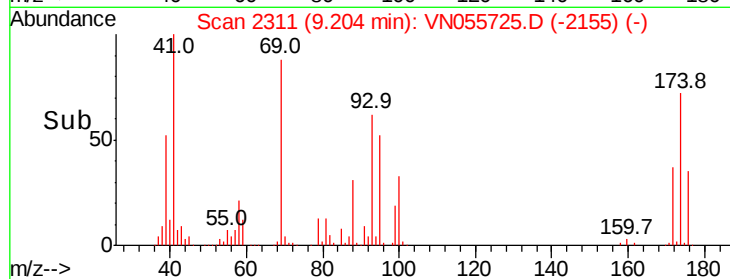
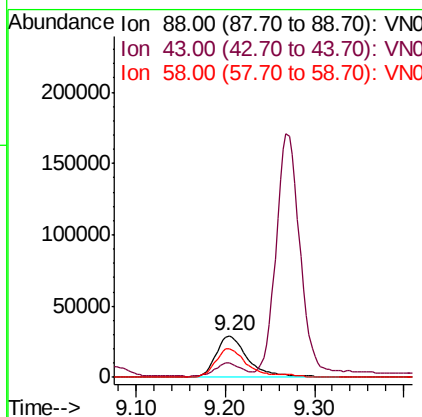
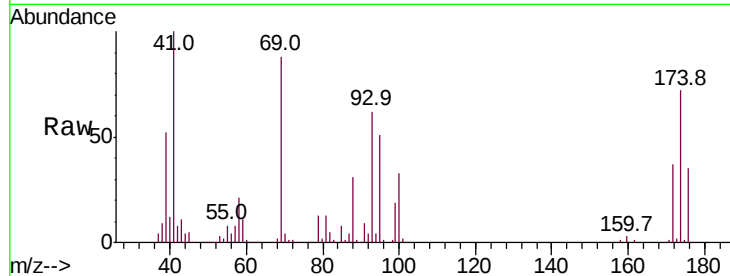
#45
1,4-Dioxane
Concen: 1567.706 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion	88	Resp	73260
Ion	Ratio	Lower	Upper
88	100		
43	26.5	20.5	30.7
58	66.7	56.1	84.1

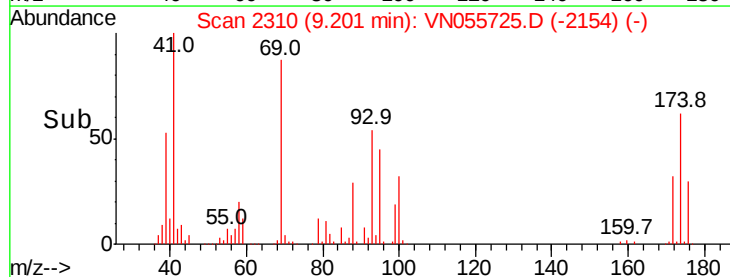
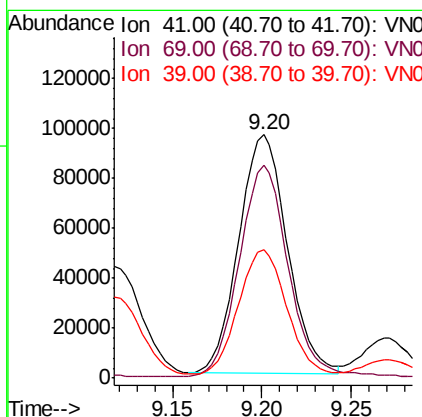
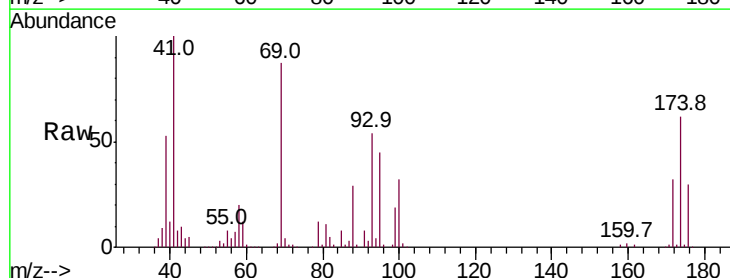
Manual Integrations
APPROVED

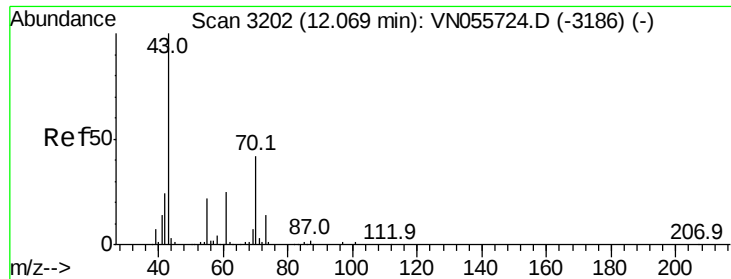
MMDadoda
5/23/2019 12:31:00 PM



#46
Methyl methacrylate
Concen: 49.492 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	41	Resp	182230
Ion	Ratio	Lower	Upper
41	100		
69	88.5	43.8	131.4
39	52.1	25.6	76.6





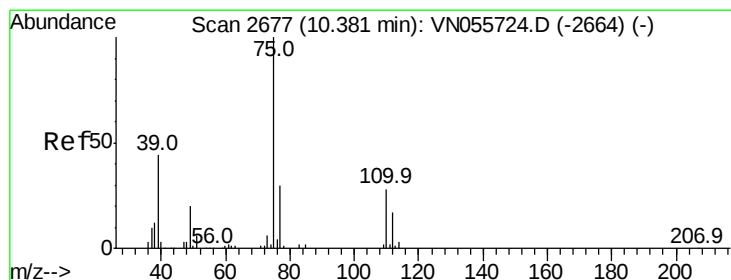
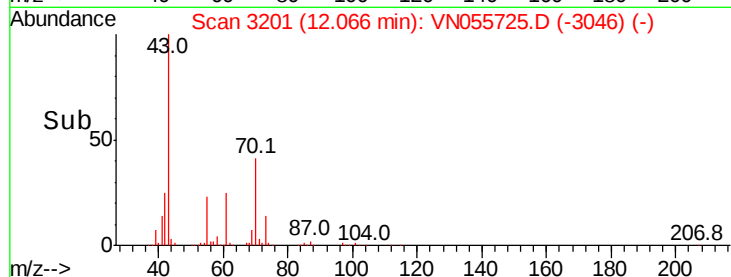
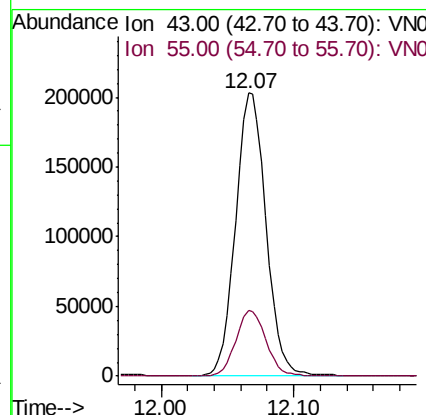
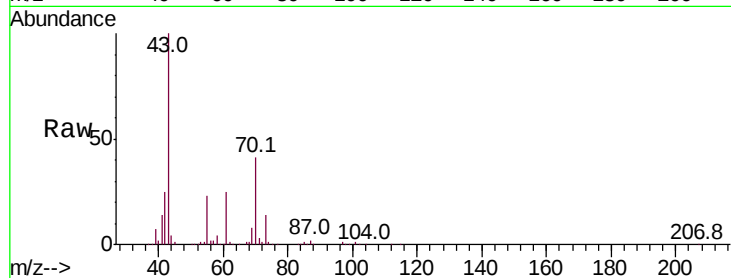
#47
n-amvl Acetate
Concen: 55.068 ug/l
RT: 12.07 min Scan# 3201
Delta R.T. -0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion: 43 Resp: 321547
Ion Ratio Lower Upper
43 100
55 23.0 17.8 26.6

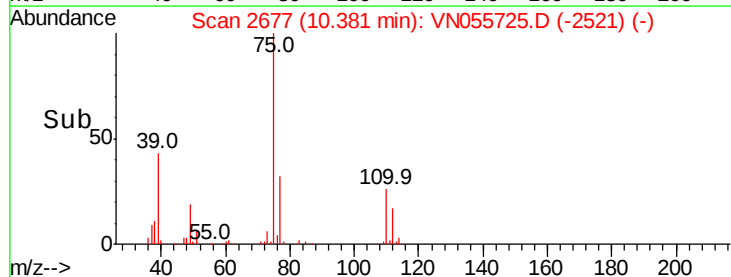
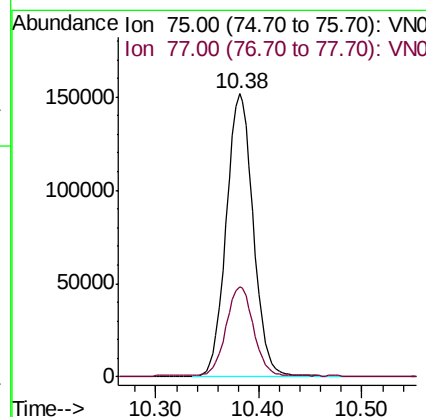
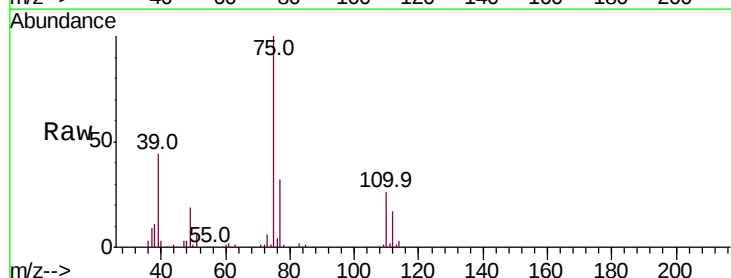
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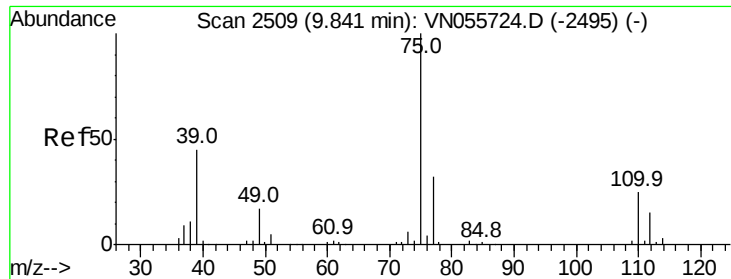
MMDadoda
5/23/2019 12:31:00 PM



#48
t-1,3-Dichloropropene
Concen: 53.639 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion: 75 Resp: 277375
Ion Ratio Lower Upper
75 100
77 31.6 25.2 37.8





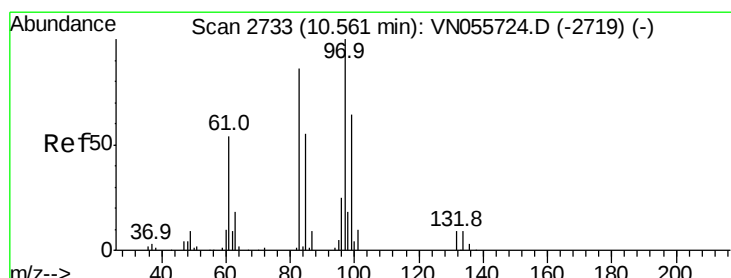
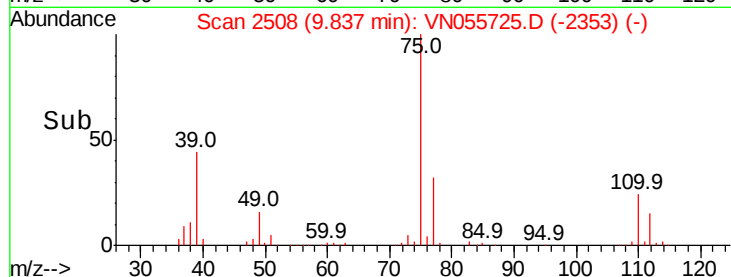
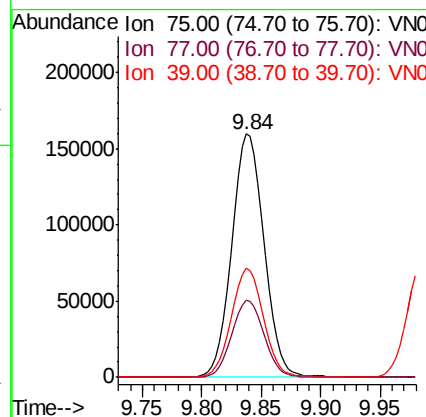
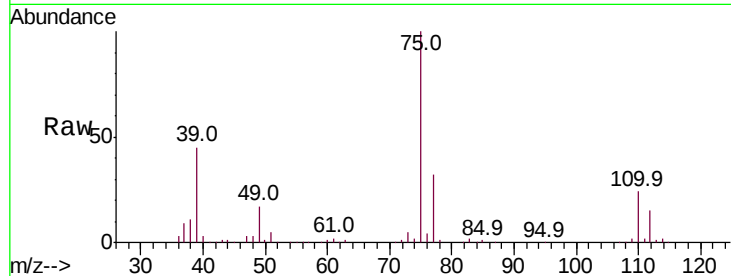
#49
 cis-1,3-Dichloropropene
 Concen: 50.808 ug/l
 RT: 9.84 min Scan# 2508
 Delta R.T. -0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
77	31.5	26.0	39.0	
39	44.5	36.2	54.4	

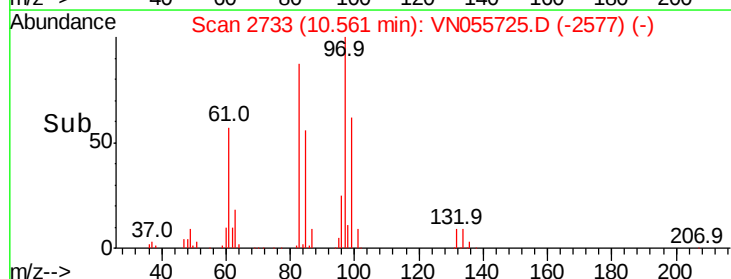
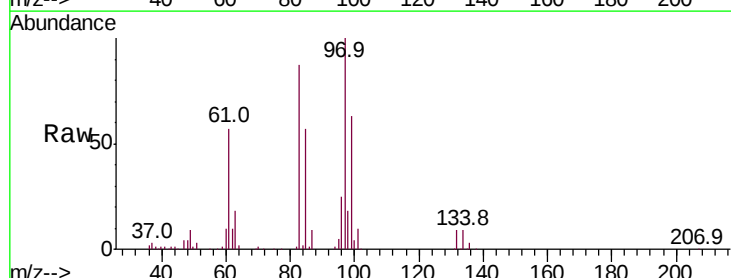
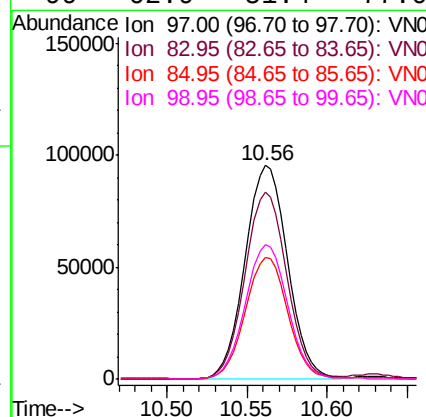
Manual Integrations
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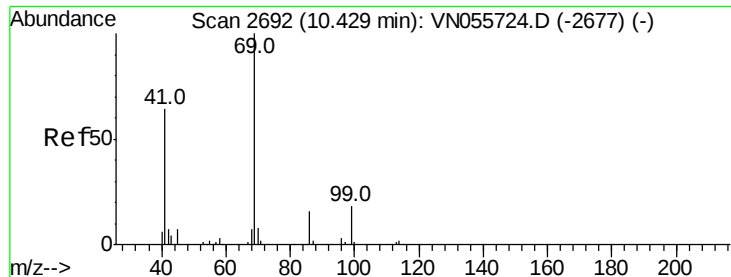
MMDadoda
 5/23/2019 12:31:00 PM



#50
 1,1,2-Trichloroethane
 Concen: 50.323 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
83	87.2	68.9	103.3	
85	57.0	44.3	66.5	
99	62.9	51.4	77.0	





#51

Ethyl methacrylate

Concen: 57.469 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

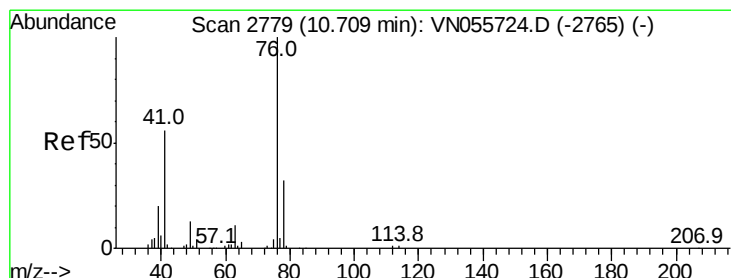
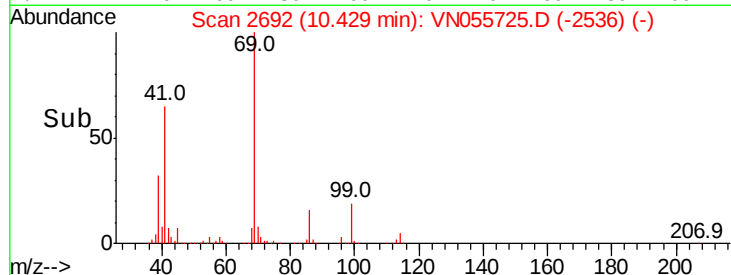
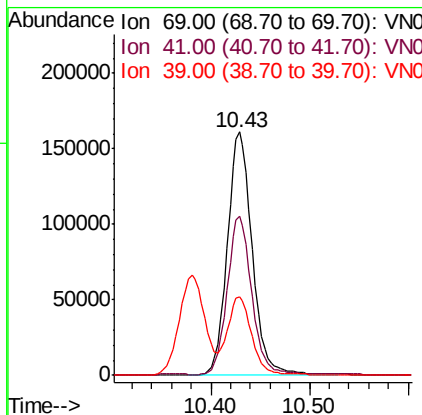
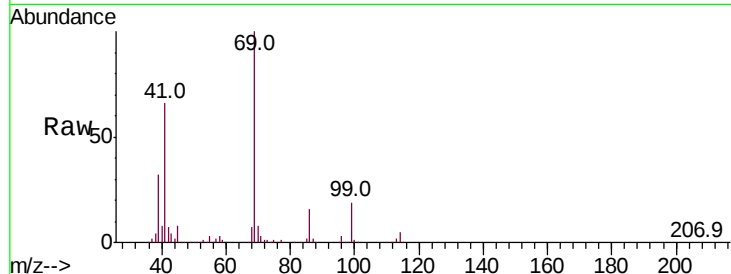
ClientSampleId :

VSTDIC050

Tot Ion:	69	Resp:	283286
Ion	Ratio	Lower	Upper
69	100		
41	65.2	31.9	95.7
39	32.0	15.7	47.0

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 47.562 ug/l

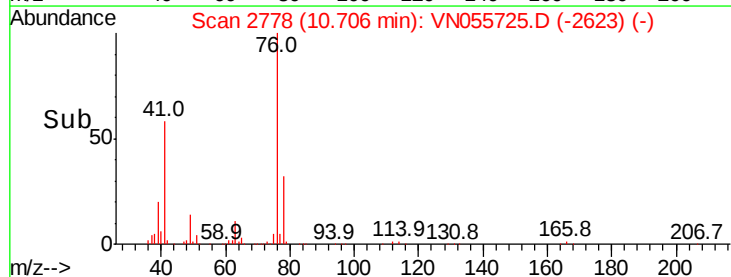
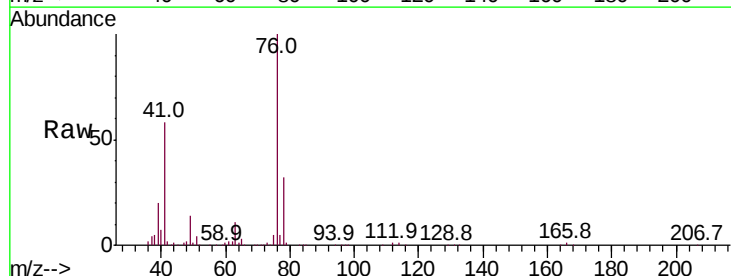
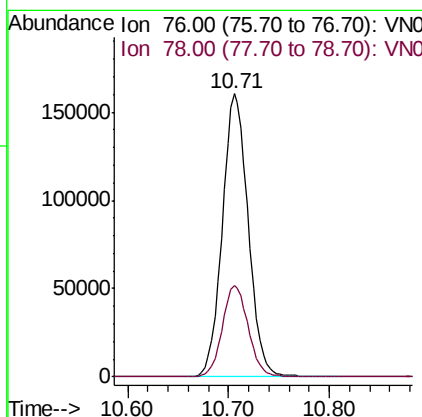
RT: 10.71 min Scan# 2778

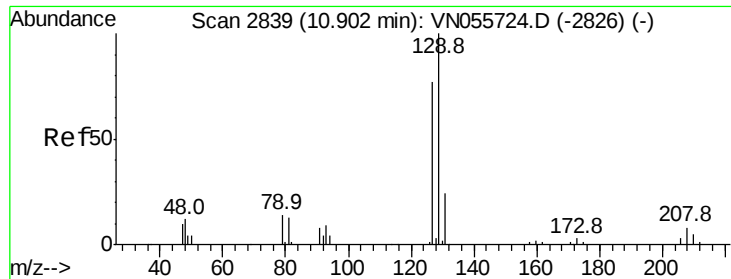
Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tgt Ion:	76	Resp:	287551
Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.0





#53

Dibromochloromethane

Concen: 56.262 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampled :

VSTDIC050

Tot Ion:129 Resp: 207287

Ion Ratio Lower Upper

129 100

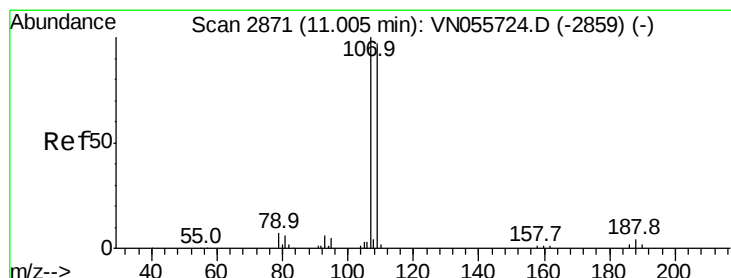
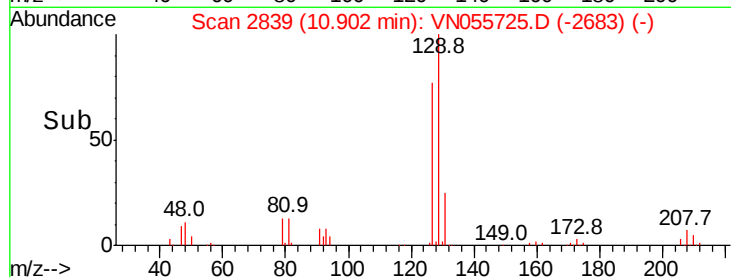
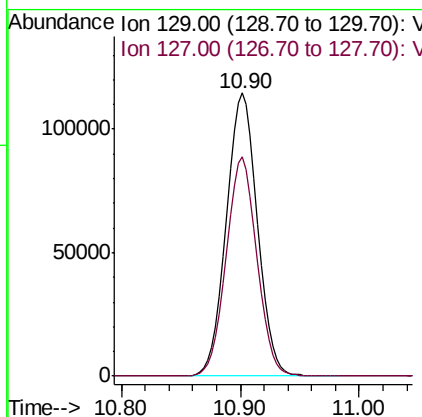
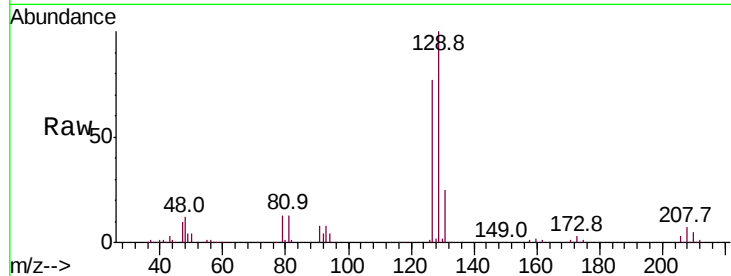
127 76.5 39.2 117.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 53.309 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN055725.D

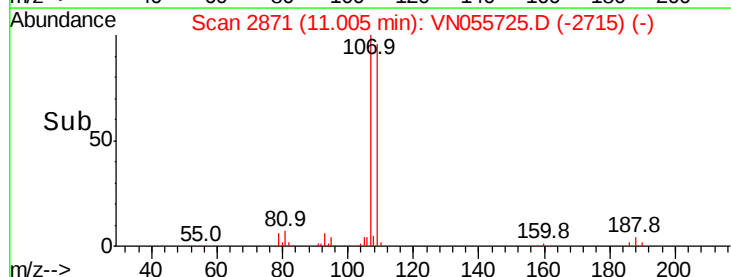
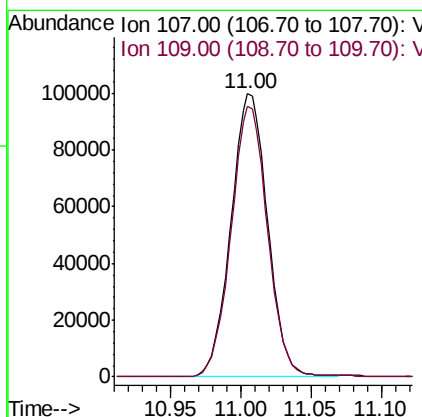
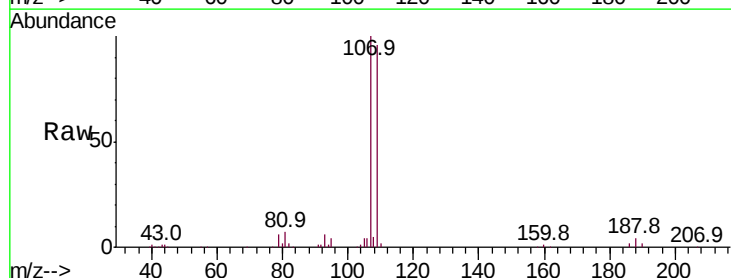
Acq: 22 May 2019 17:47

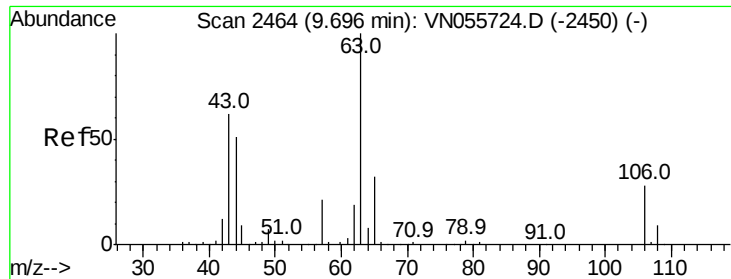
Tgt Ion:107 Resp: 181764

Ion Ratio Lower Upper

107 100

109 95.1 76.6 115.0





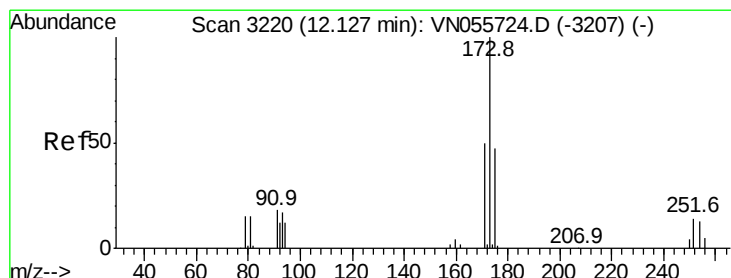
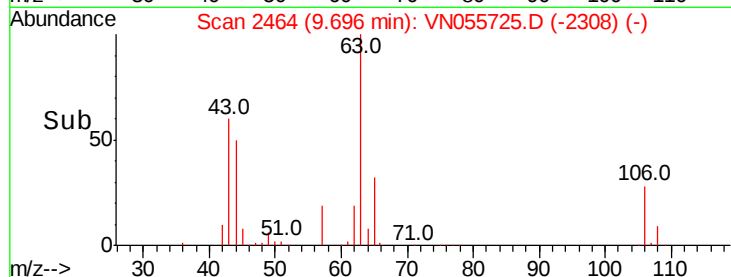
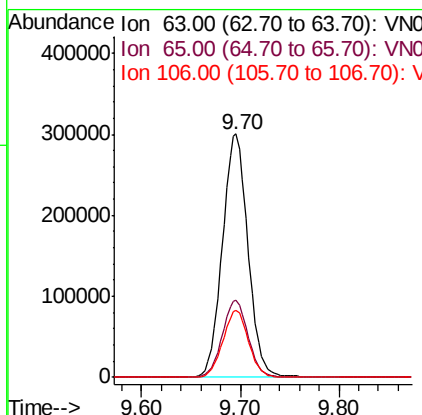
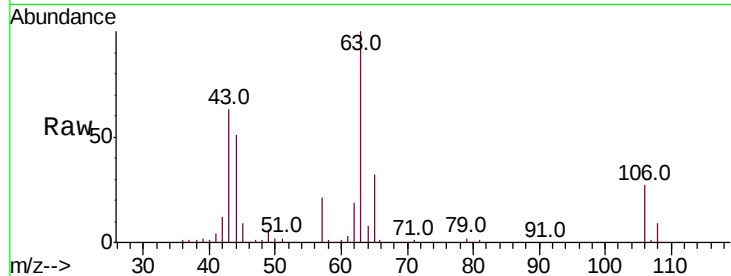
#55
2-Chloroethyl vinyl ether
Concen: 345.779 ug/l
RT: 9.70 min Scan# 2464
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.4	38.0
106	27.6	22.1	33.1

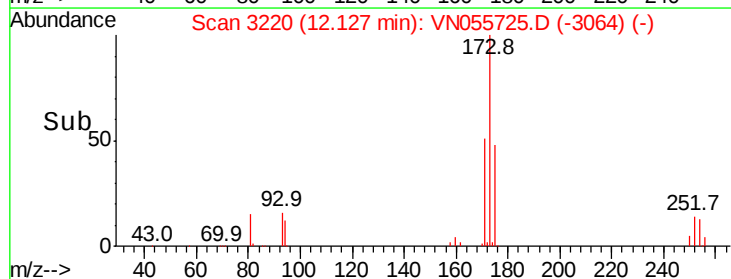
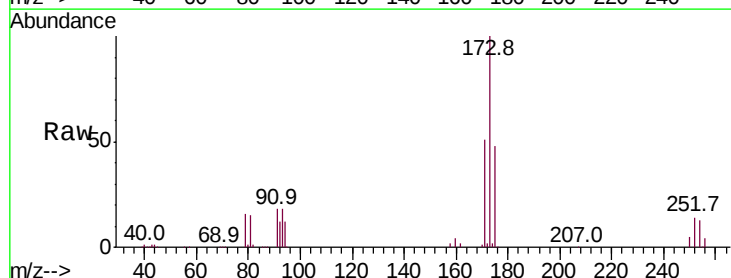
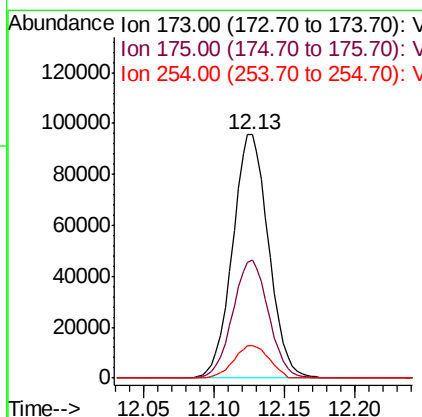
Manual Integrations
APPROVED

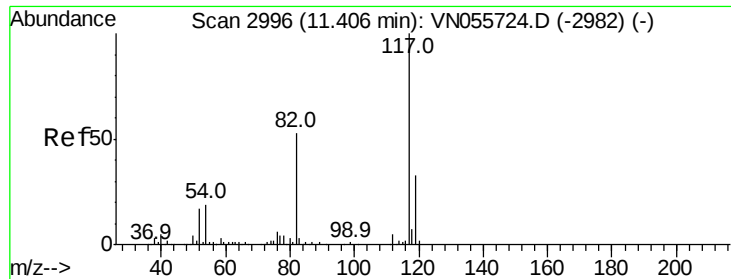
MMDadoda
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#56
Bromoform
Concen: 66.732 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.5	57.7
254	13.1	9.4	14.0





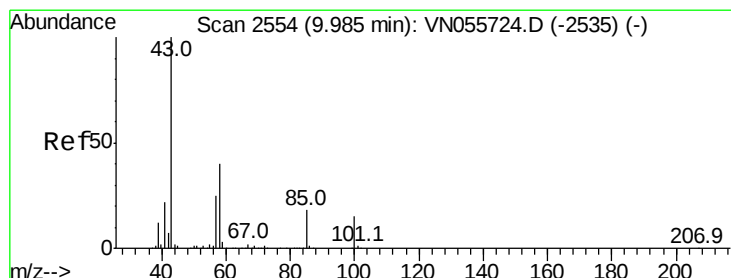
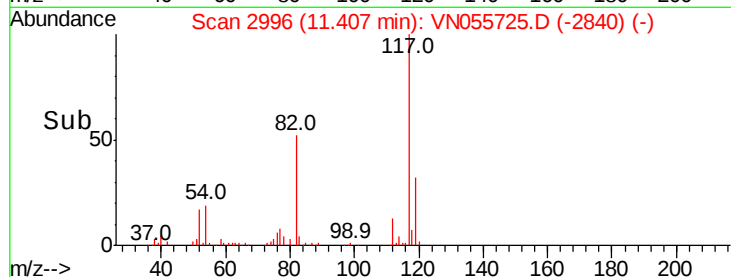
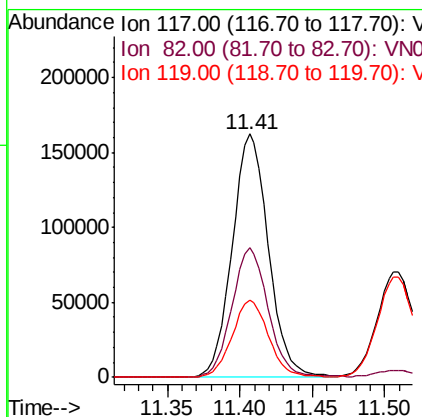
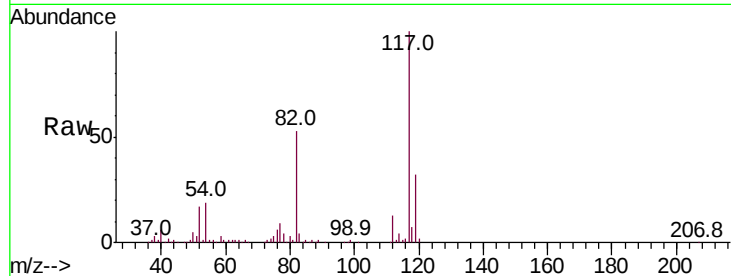
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.5	42.6	64.0
119	32.0	25.9	38.9

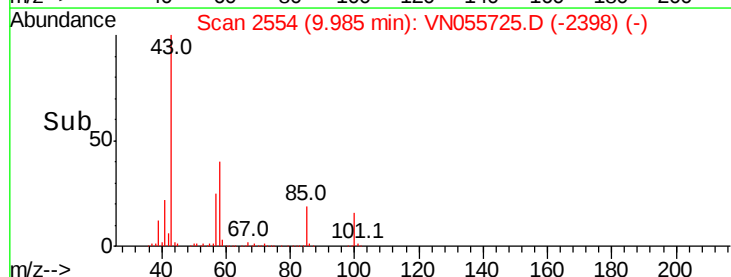
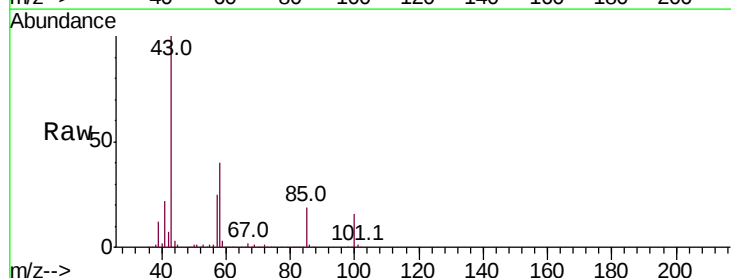
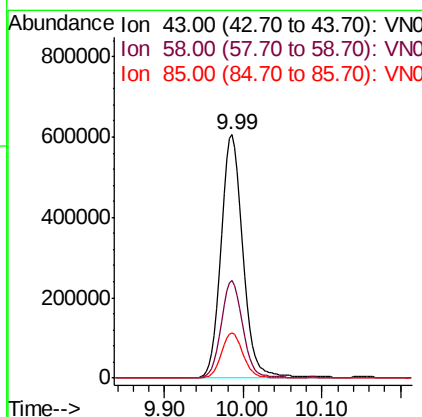
Manual Integrations
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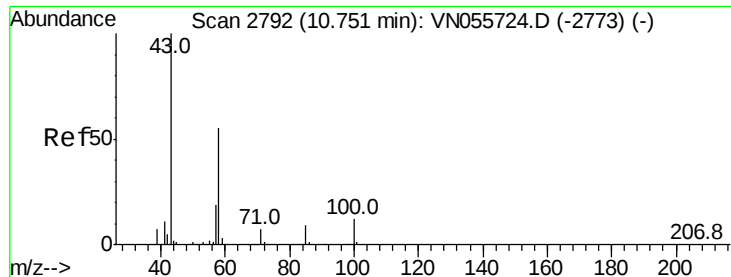
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 258.992 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.8	31.7	47.5
85	18.4	14.5	21.7





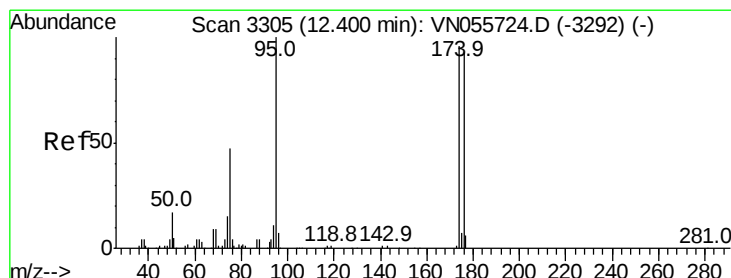
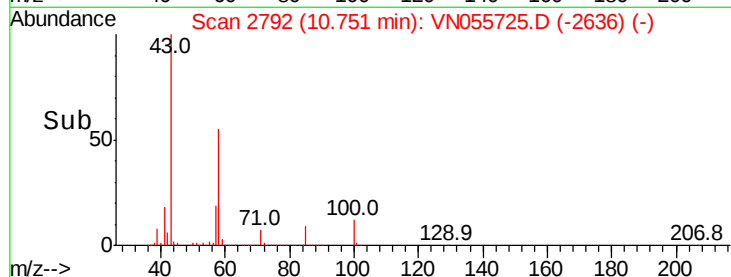
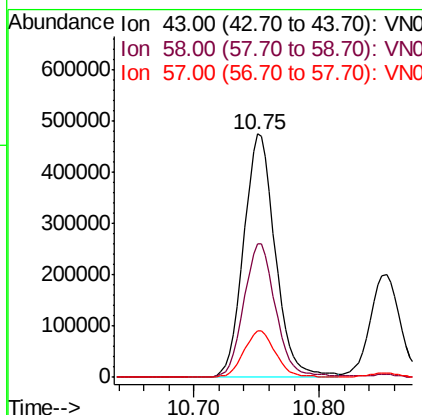
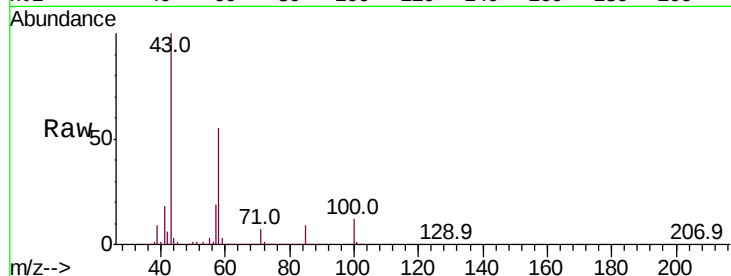
#59
2-Hexanone
Concen: 282.698 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.7	44.8	67.2
57	19.5	15.3	22.9

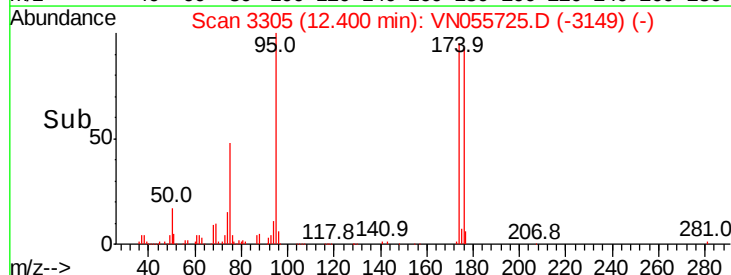
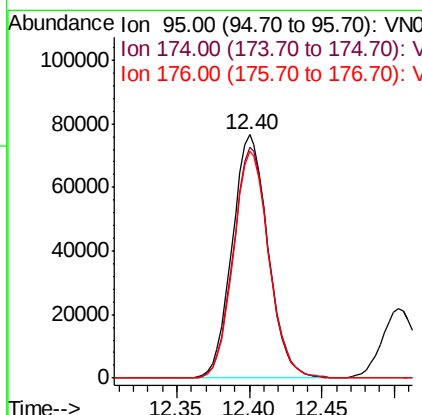
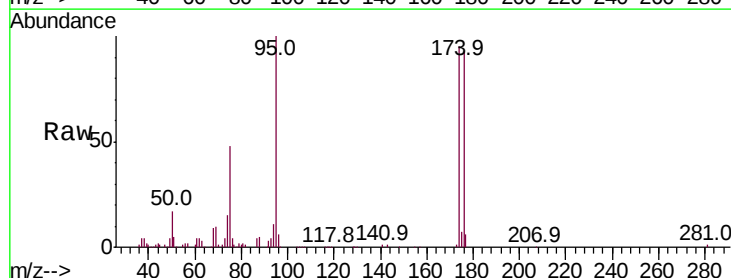
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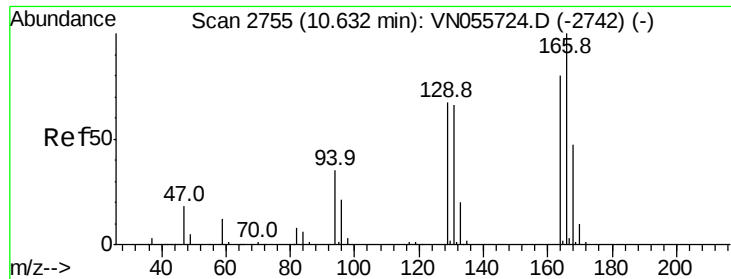
MMDadoda
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#60
4-Bromofluorobenzene
Concen: 30.151 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.5	75.7	113.5
176	92.2	74.1	111.1





#61

Tetrachloroethene

Concen: 51.538 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:164 Resp: 189742

Ion Ratio Lower Upper

164 100

166 130.1 100.6 150.8

129 86.6 67.4 101.2

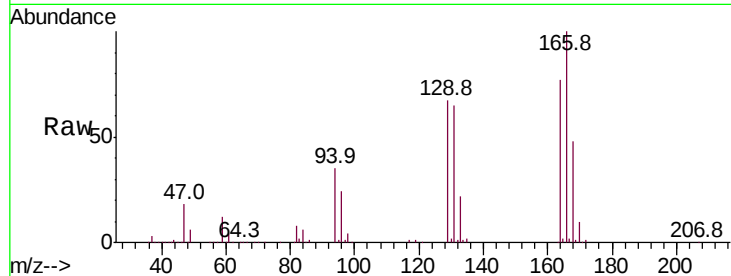
131 84.7 66.6 99.8

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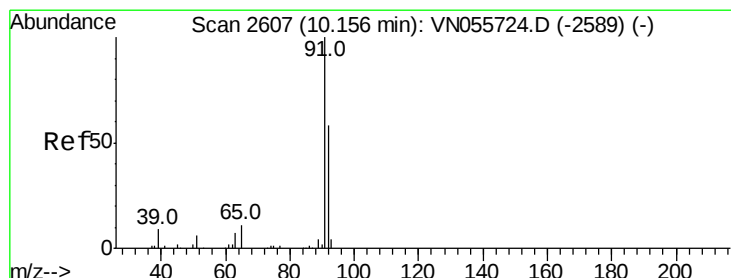
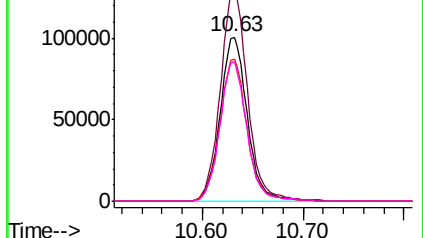
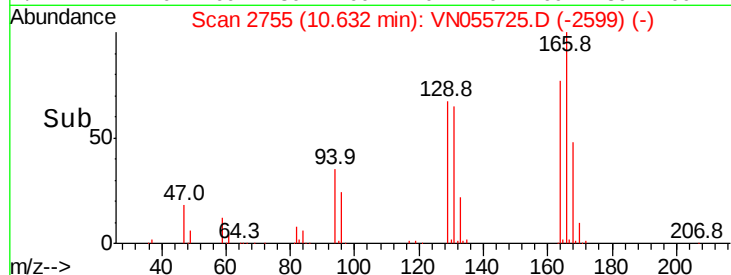


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 48.052 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055725.D

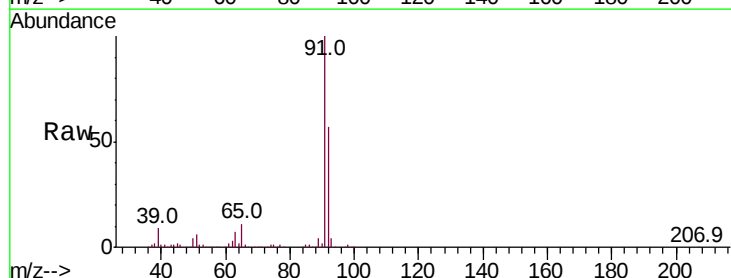
Acq: 22 May 2019 17:47

Tgt Ion: 91 Resp: 761498

Ion Ratio Lower Upper

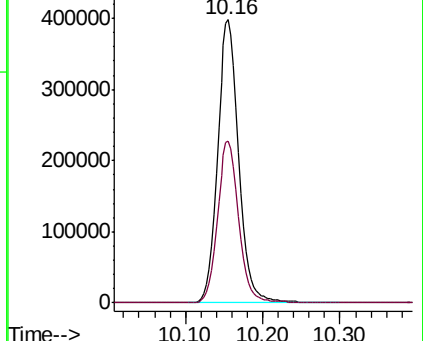
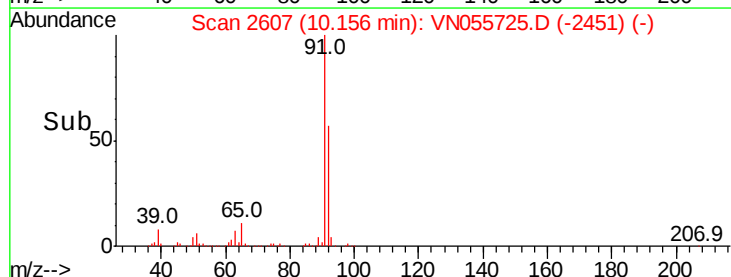
91 100

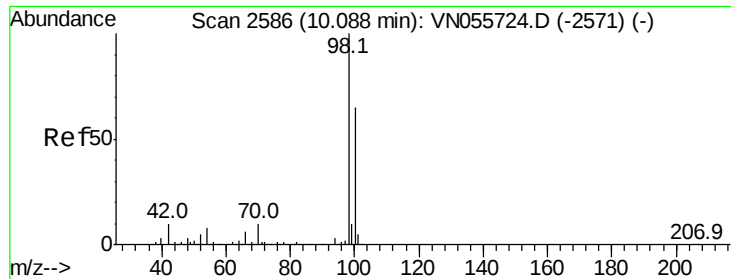
92 57.5 45.6 68.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





#63

Toluene-d8

Concen: 28.967 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 98 Resp: 385920

Ion Ratio Lower Upper

98 100

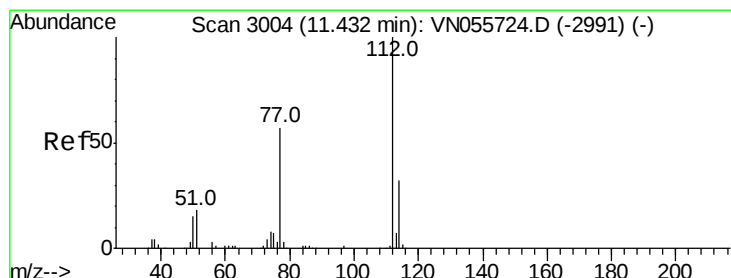
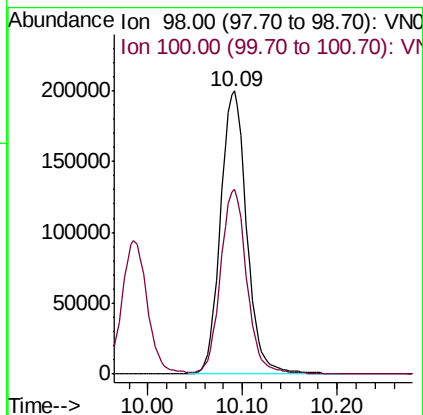
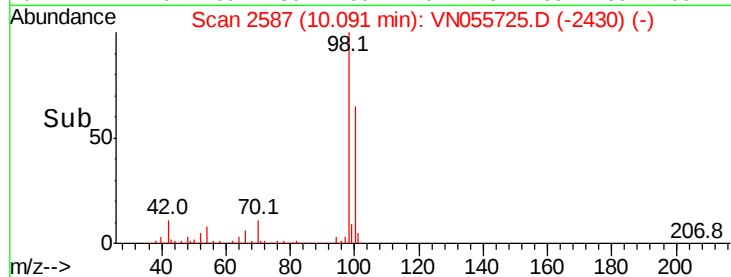
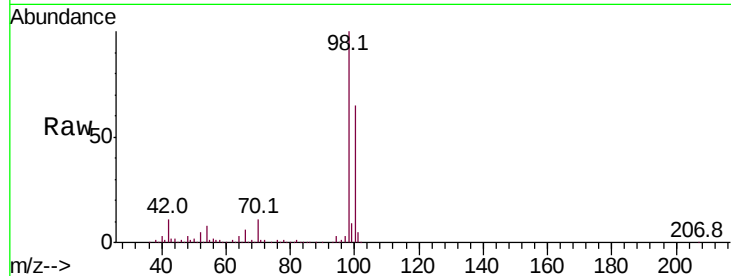
100 65.1 51.6 77.4

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#64

Chlorobenzene

Concen: 48.712 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN055725.D

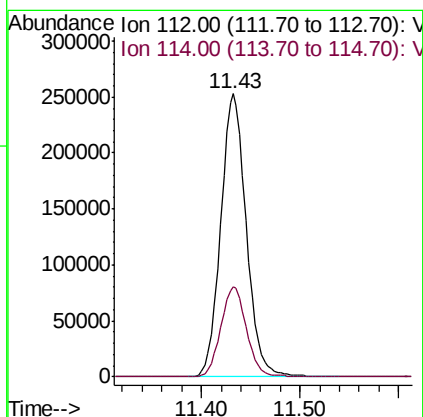
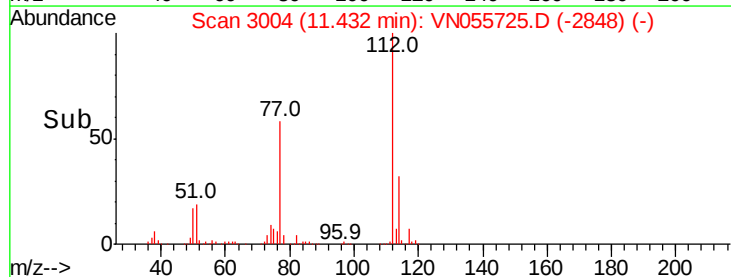
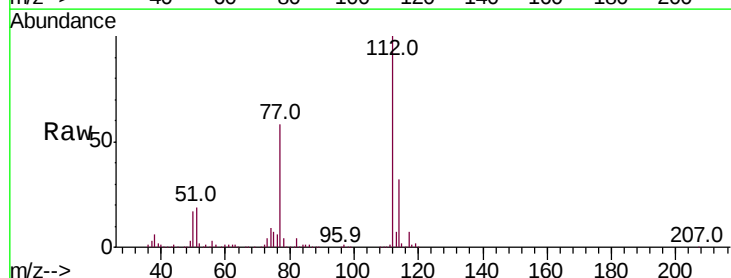
Acq: 22 May 2019 17:47

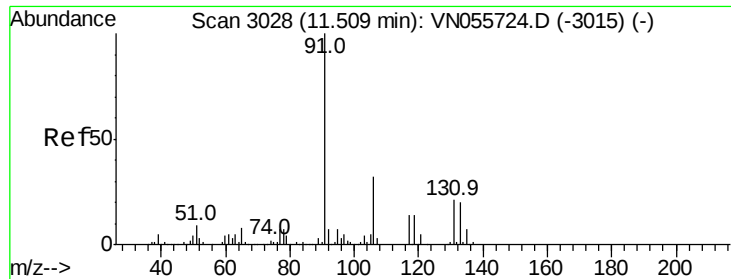
Tgt Ion: 112 Resp: 459654

Ion Ratio Lower Upper

112 100

114 32.0 25.4 38.0





#65

1,1,1,2-Tetrachloroethane

Concen: 51.208 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

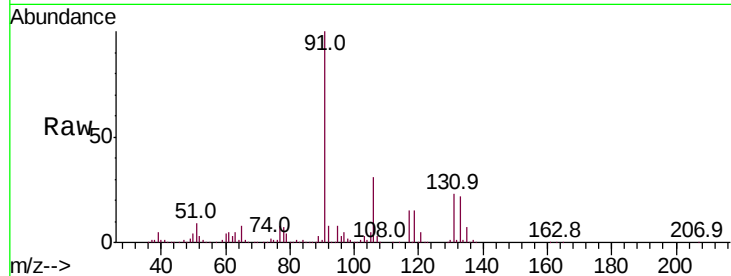
ClientSampled :

VSTDIC050

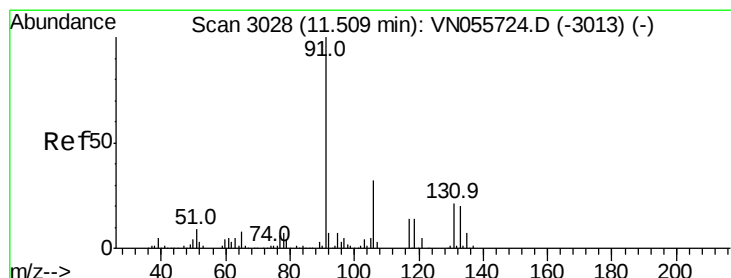
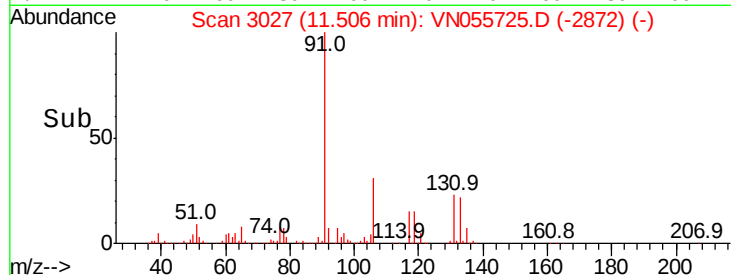
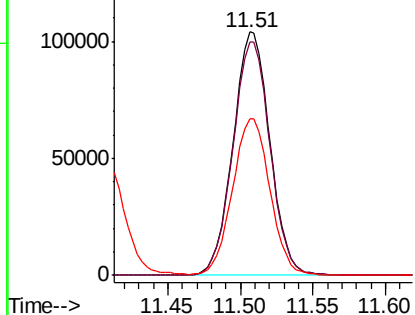
Tot Ion:	131	Resp:	183730
Ion Ratio	Lower	Upper	
131	100		
133	96.8	0.0	188.8
119	65.4	0.0	133.6

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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#66

Ethyl Benzene

Concen: 48.696 ug/l

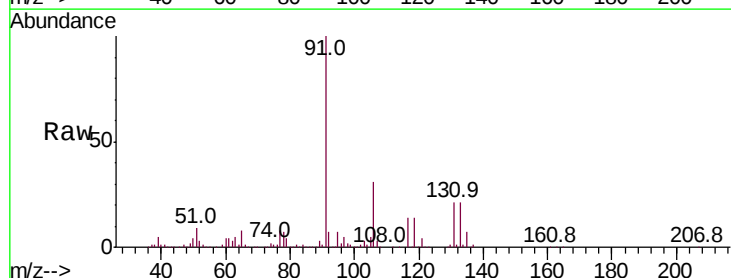
RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

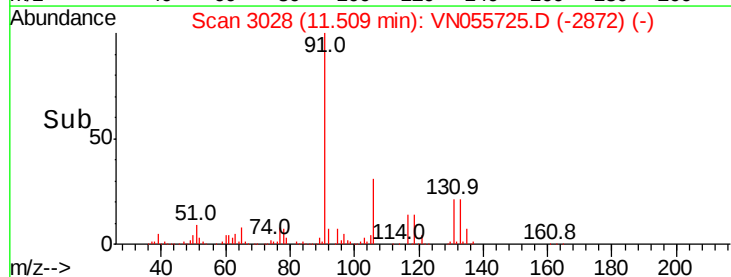
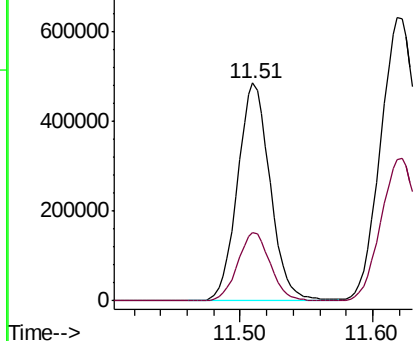
Lab File: VN055725.D

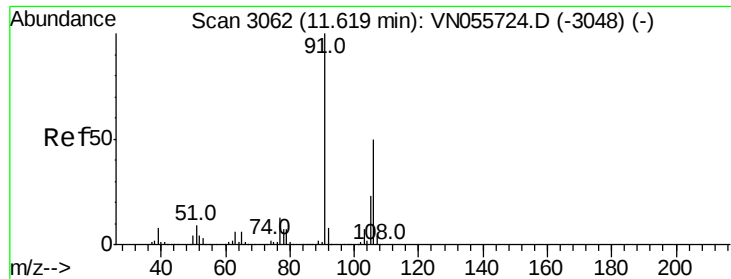
Acq: 22 May 2019 17:47

Tgt Ion:	91	Resp:	827792
Ion Ratio	Lower	Upper	
91	100		
106	31.3	25.6	38.4



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#67

m/p-Xylenes

Concen: 100.833 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:106 Resp: 629487

Ion Ratio Lower Upper

106 100

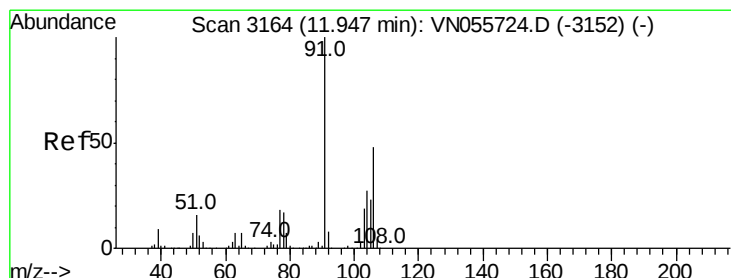
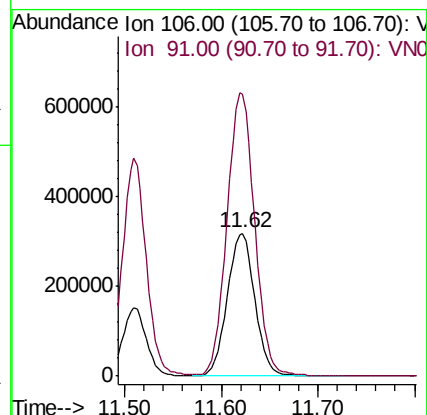
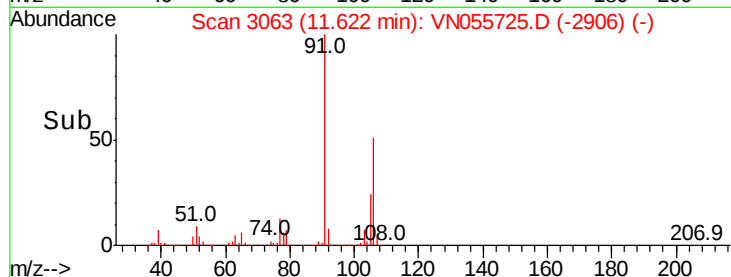
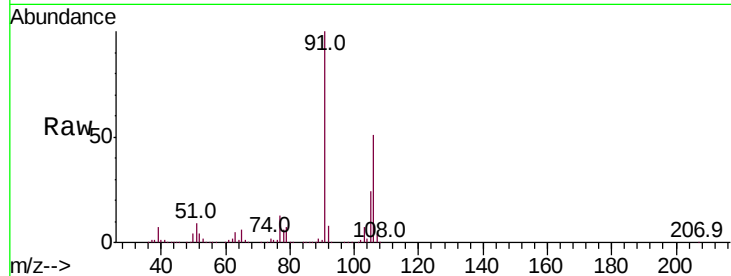
91 199.2 159.5 239.3

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#68

o-Xylene

Concen: 49.741 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN055725.D

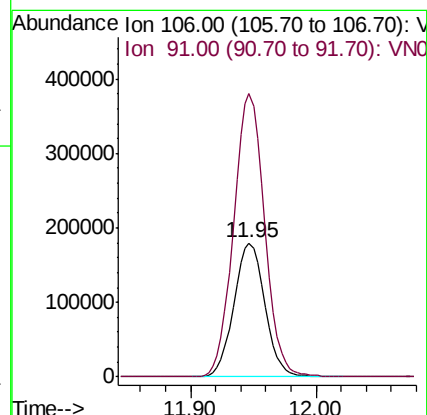
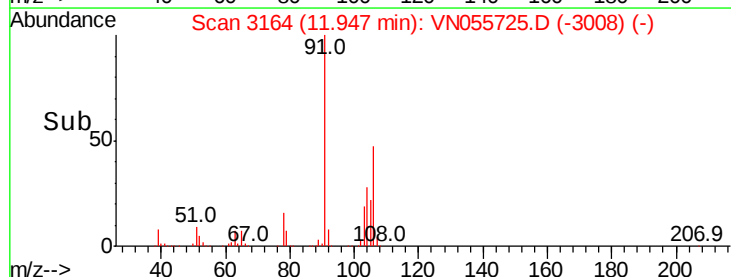
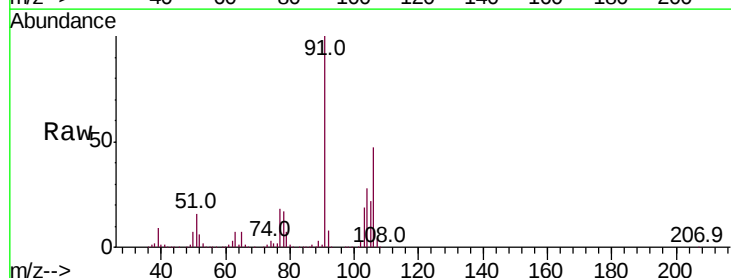
Acq: 22 May 2019 17:47

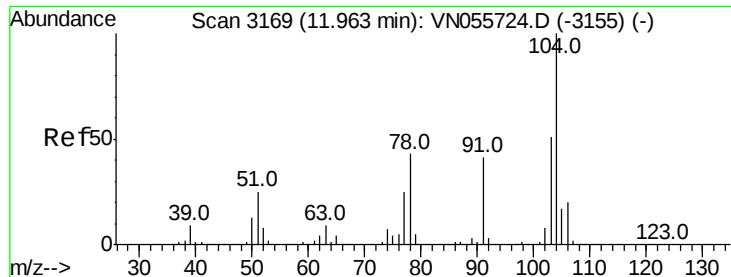
Tgt Ion:106 Resp: 308541

Ion Ratio Lower Upper

106 100

91 211.1 105.4 316.1





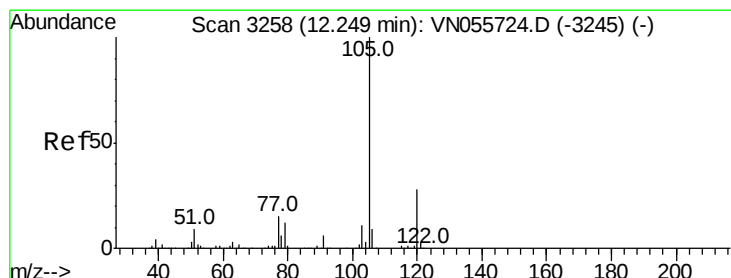
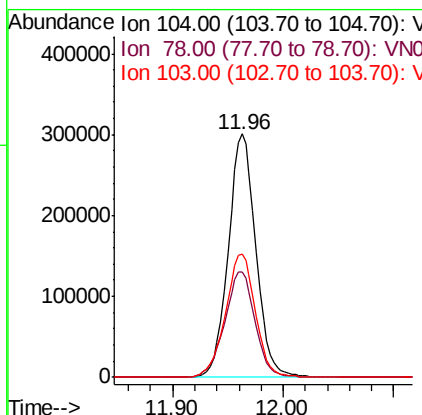
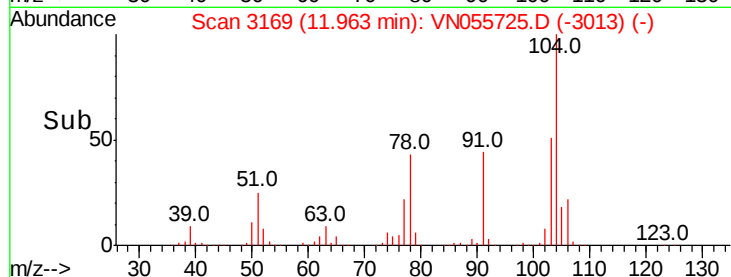
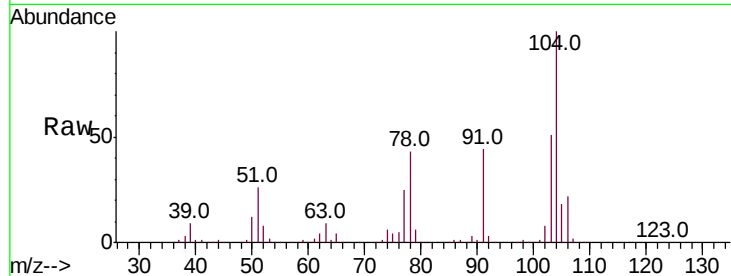
#69
Stvrene
Concen: 53.163 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
104	100		
78	47.8	38.7	58.1
103	55.0	45.0	67.6

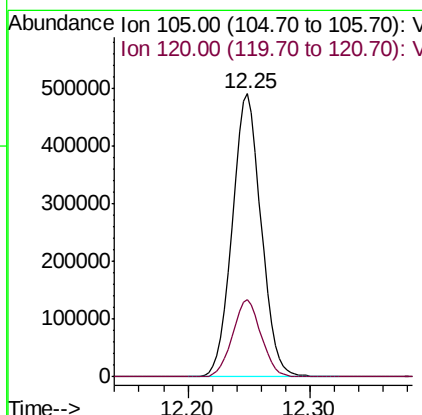
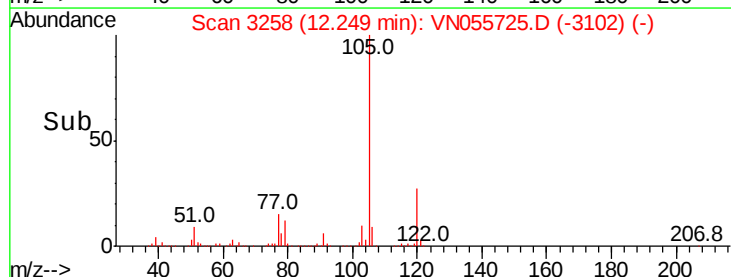
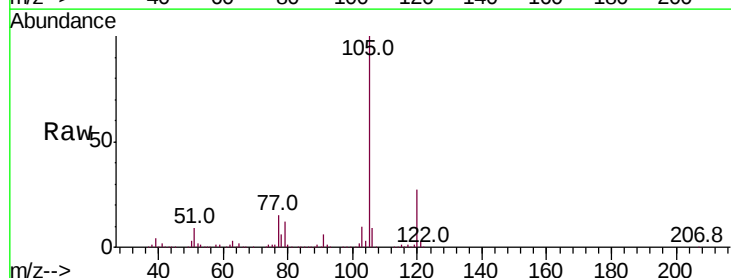
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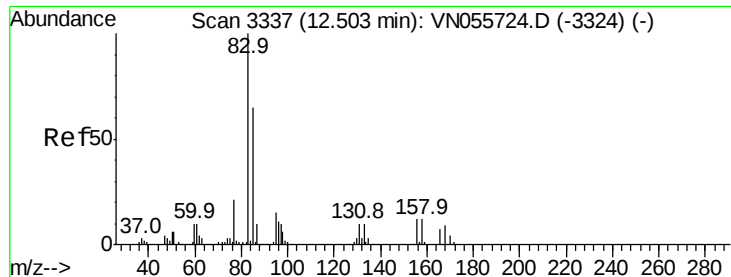
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#70
Isopropylbenzene
Concen: 49.544 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	19.2	35.6





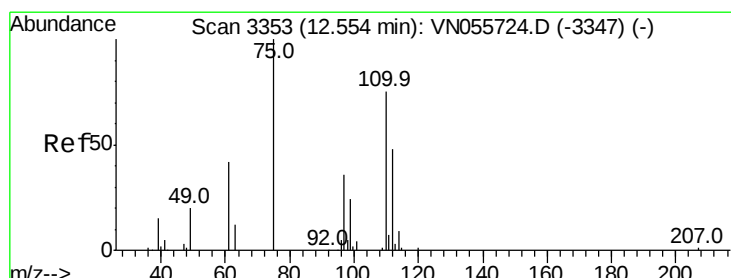
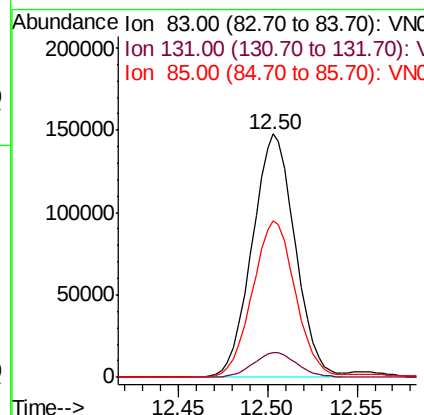
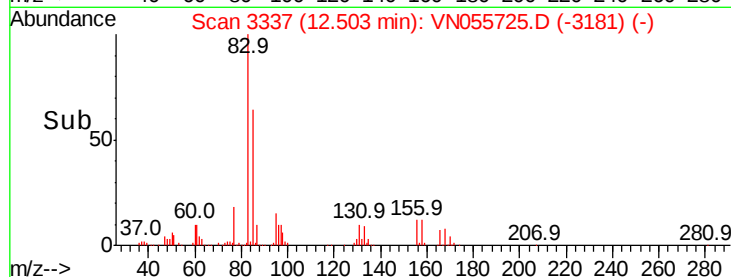
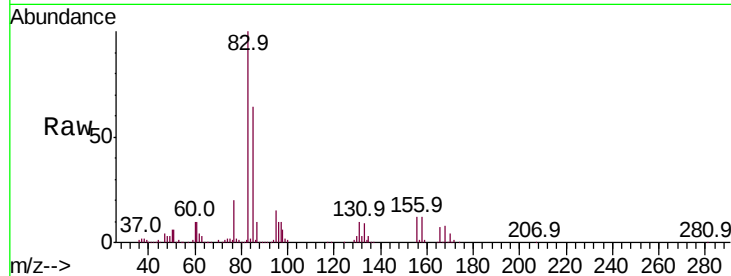
#71
 1,1,2,2-Tetrachloroethane
 Concen: 53.634 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.3	15.8
85	64.2	32.3	96.9

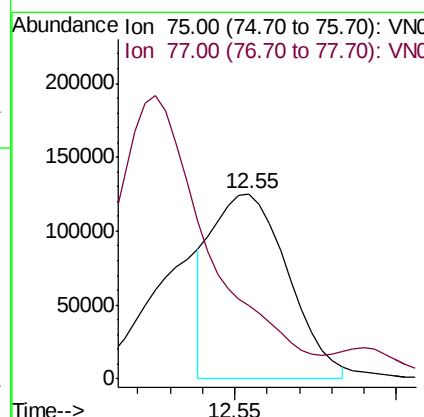
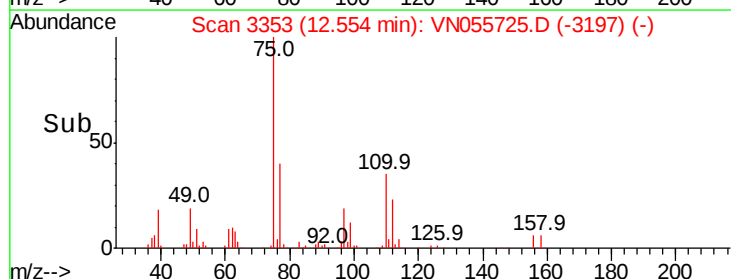
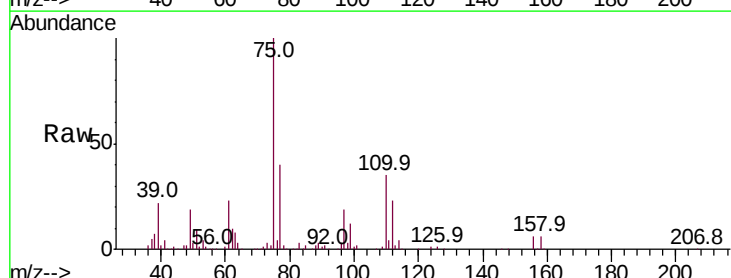
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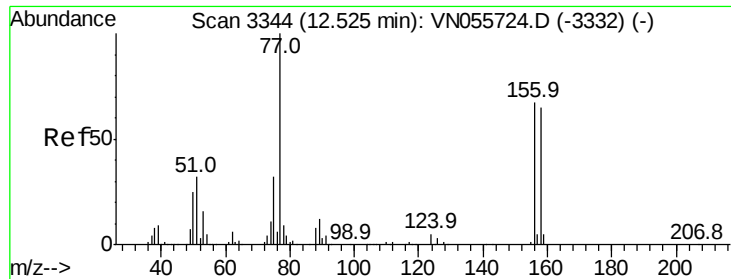
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#72
 1,2,3-Trichloropropane
 Concen: 50.744 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	193.5	0.0	349.8





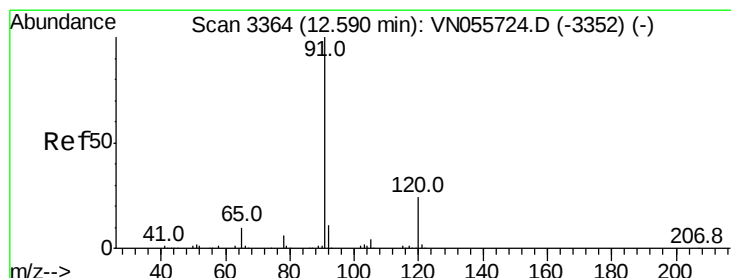
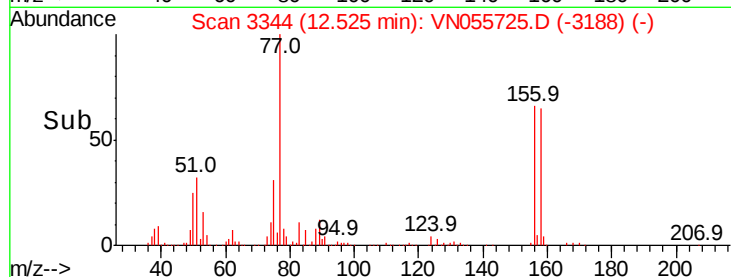
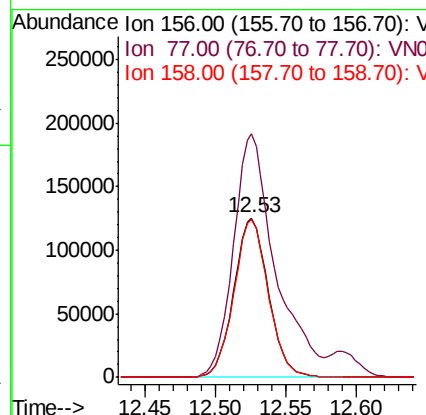
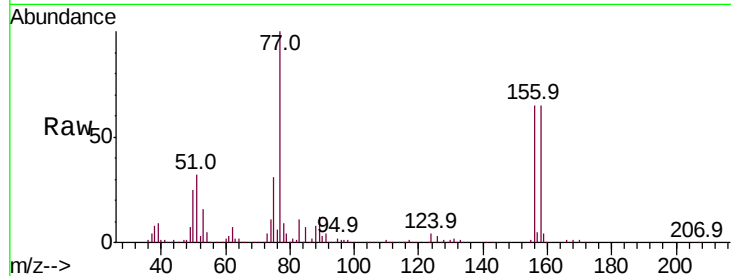
#73
Bromobenzene
Concen: 54.103 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
156	100	215271		
77	184.8	0.0	368.0	
158	98.7	0.0	195.0	

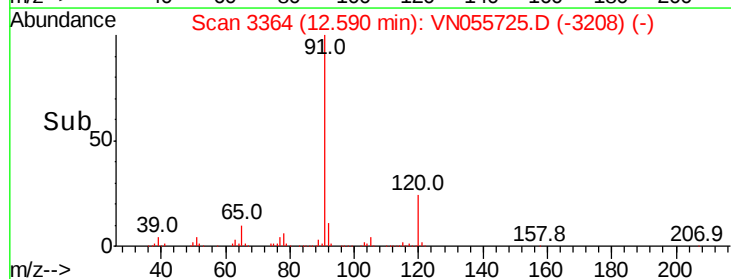
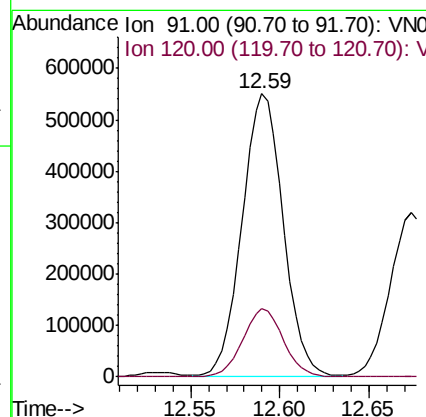
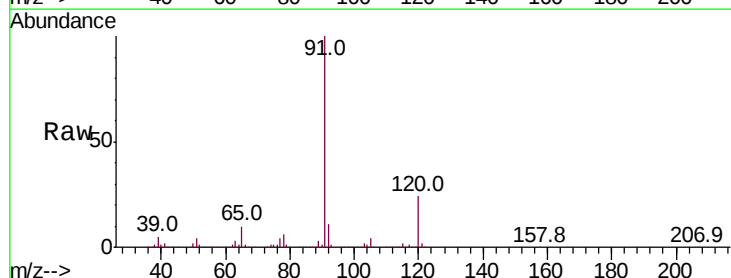
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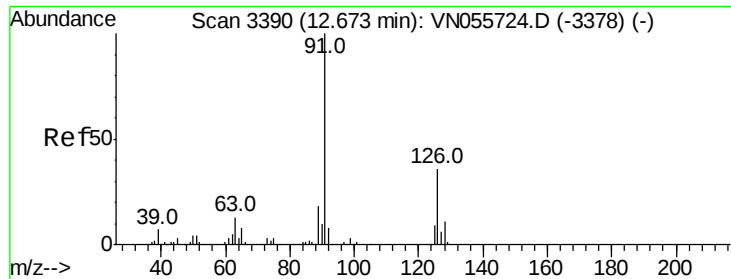
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#74
n-propylbenzene
Concen: 48.880 ug/l
RT: 12.59 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	884919		
120	23.8	0.0	47.4	





#75

2-Chlorotoluene

Concen: 48.331 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion: 91 Resp: 537051

Ion Ratio Lower Upper

91 100

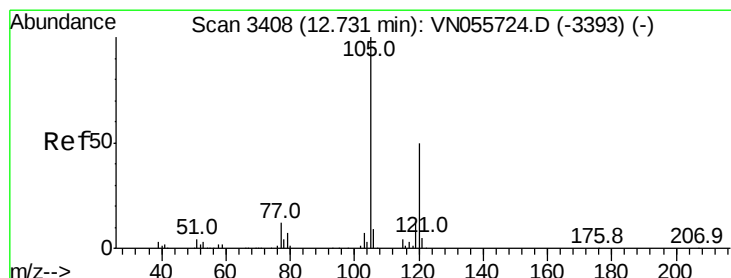
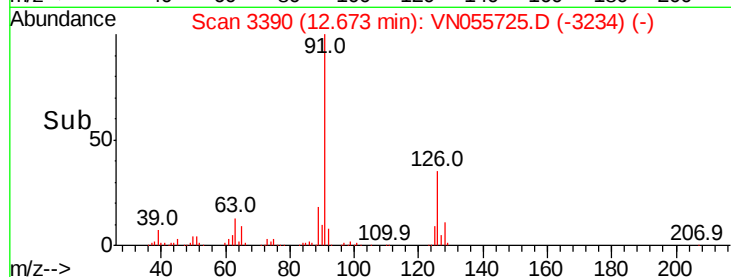
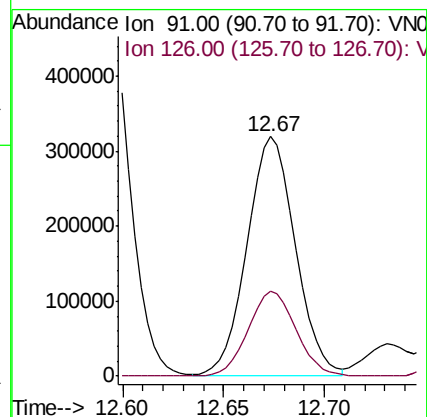
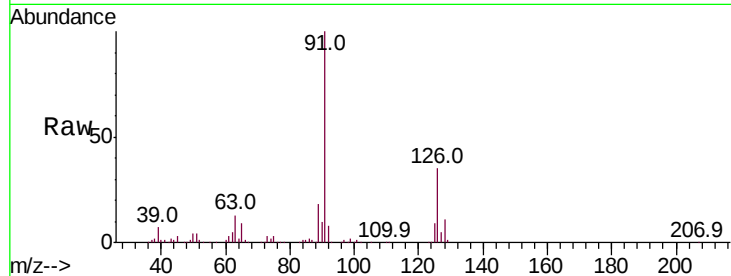
126 35.1 0.0 71.0

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#76

1,3,5-Trimethylbenzene

Concen: 50.026 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055725.D

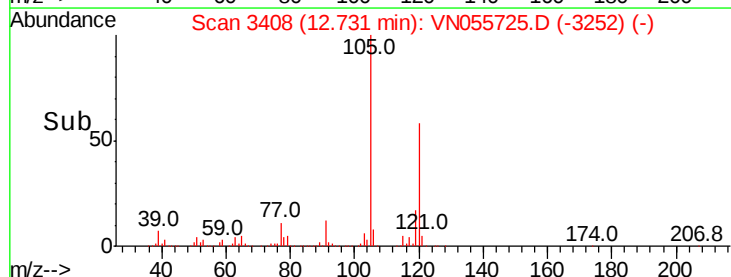
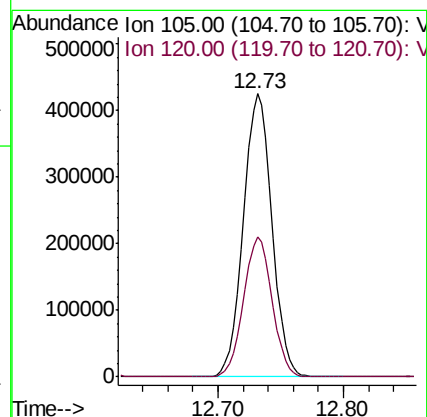
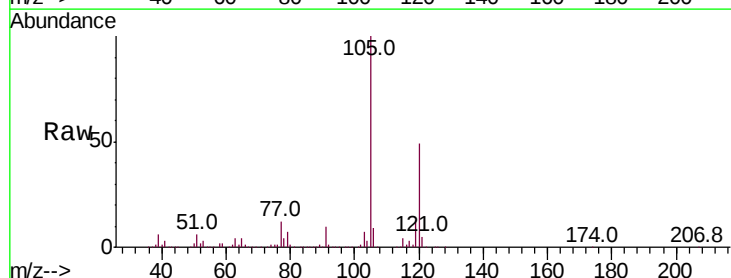
Acq: 22 May 2019 17:47

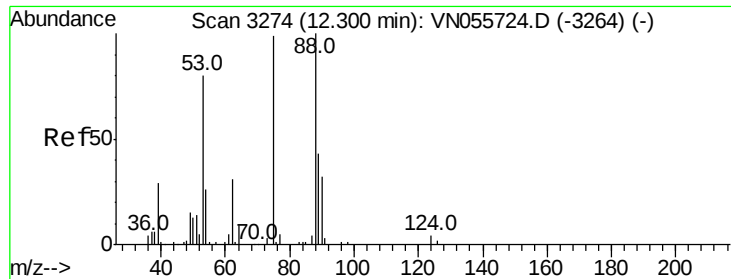
Tgt Ion: 105 Resp: 673722

Ion Ratio Lower Upper

105 100

120 49.4 0.0 99.2





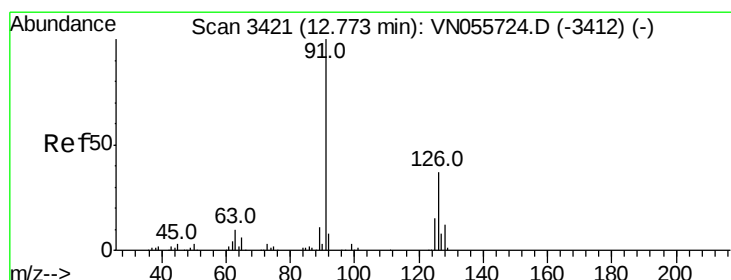
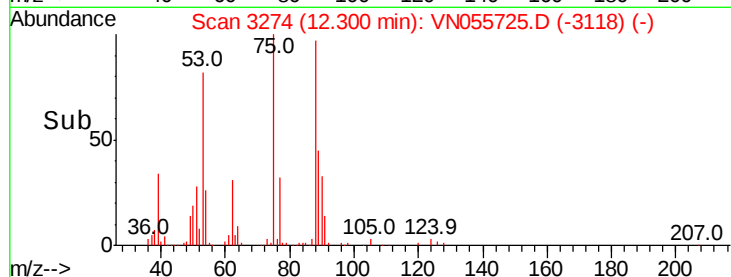
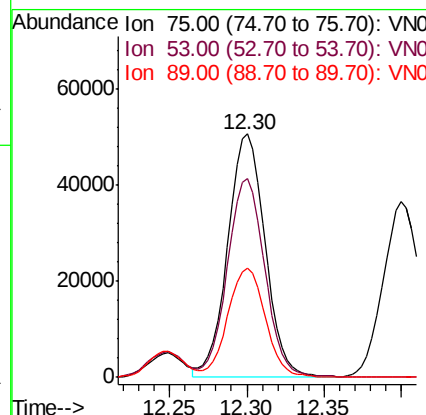
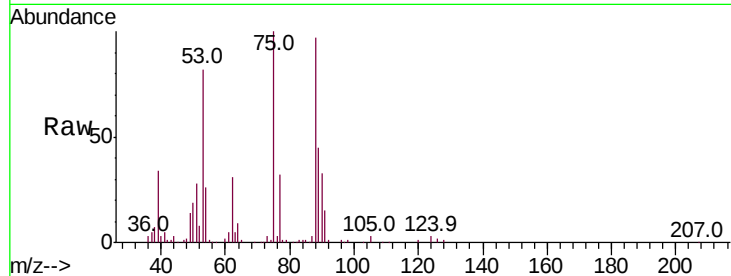
#77
t-1,4-Dichloro-2-butene
Concen: 71.233 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	81.7	40.1	120.3
89	45.0	22.6	67.8

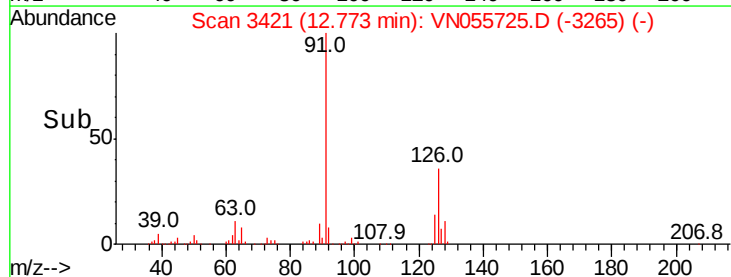
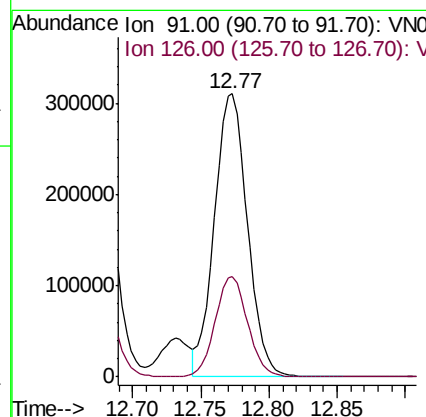
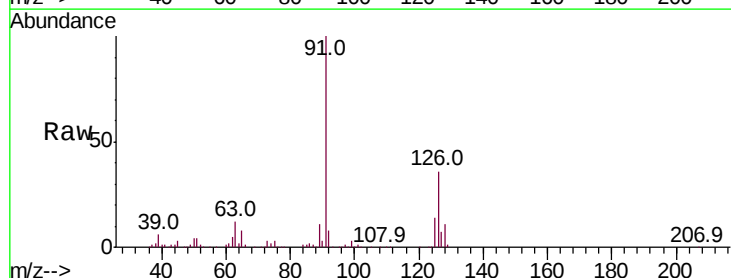
Manual Integrations
APPROVED

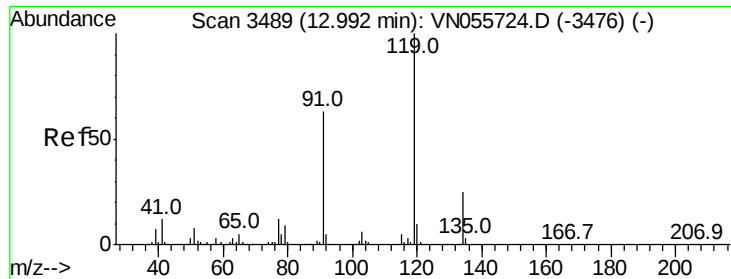
MMDadoda
5/23/2019 12:31:00 PM



#78
4-Chlorotoluene
Concen: 49.492 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	0.0	69.0





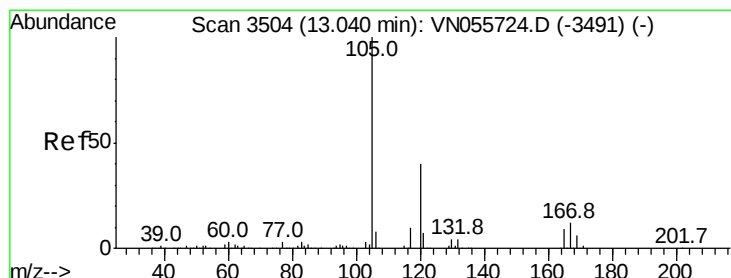
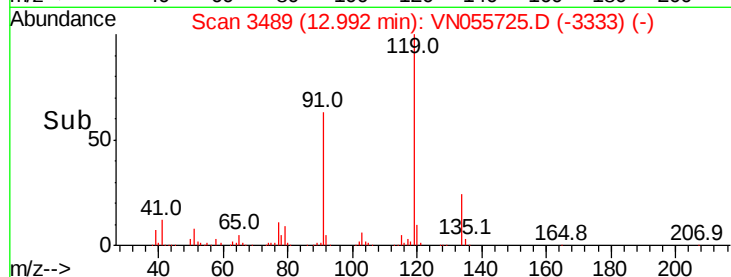
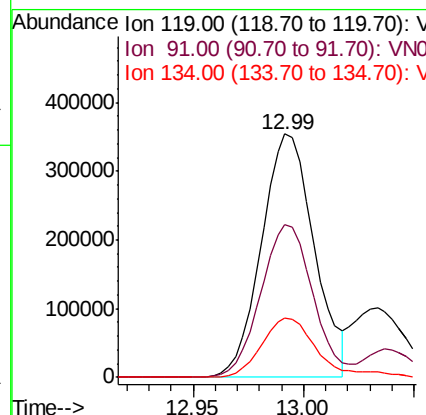
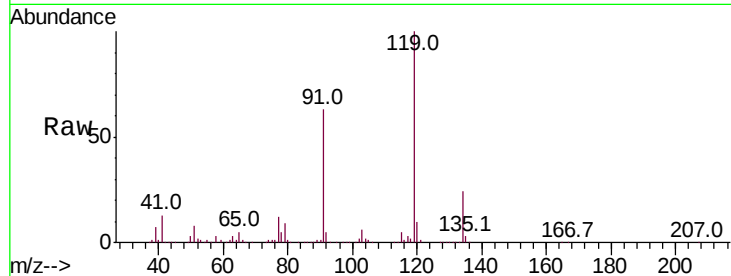
#79
tert-butylbenzene
Concen: 50.393 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	587037		
91	61.9	0.0	123.8	
134	26.0	0.0	52.6	

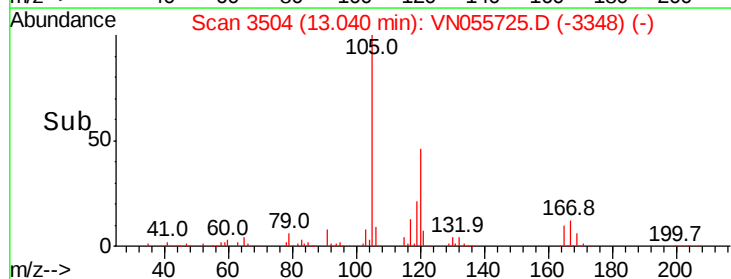
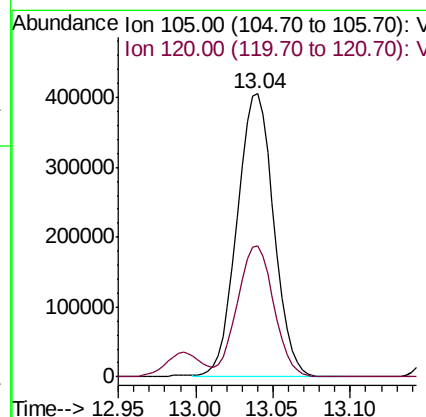
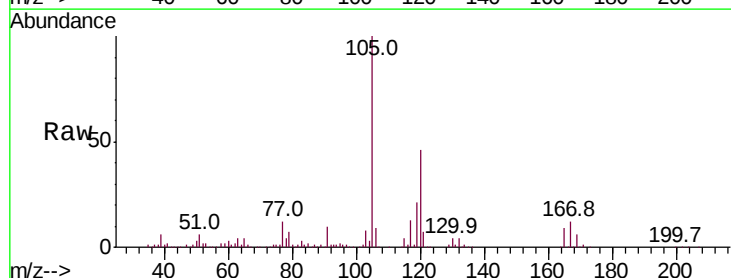
Manual Integrations
APPROVED

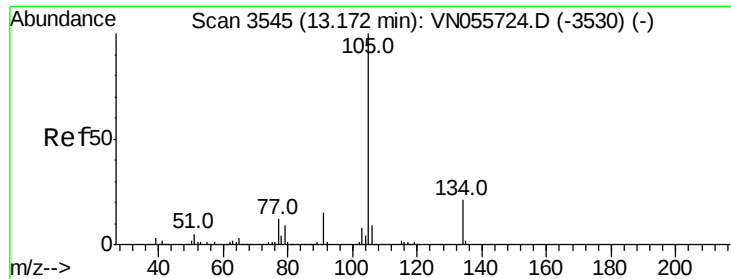
MMDadoda
5/23/2019 12:31:00 PM



#80
1,2,4-Trimethylbenzene
Concen: 51.358 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	667572		
120	46.1	0.0	93.6	





#81

sec-Butylbenzene

Concen: 49.416 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC050

Tot Ion:105 Resp: 753609

Ion Ratio Lower Upper

105 100

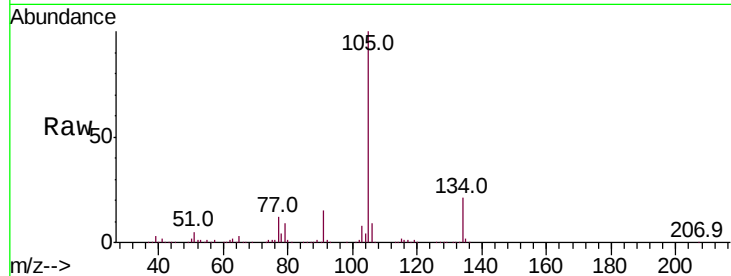
134 20.7 0.0 41.4

Manual Integrations

APPROVED

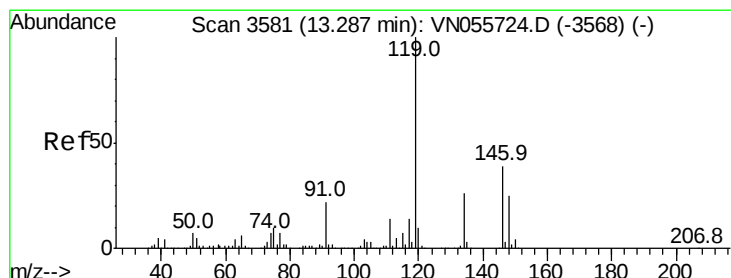
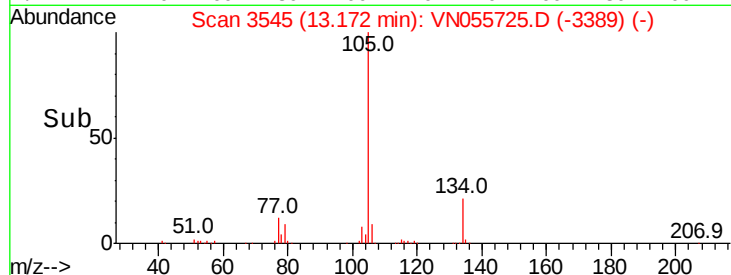
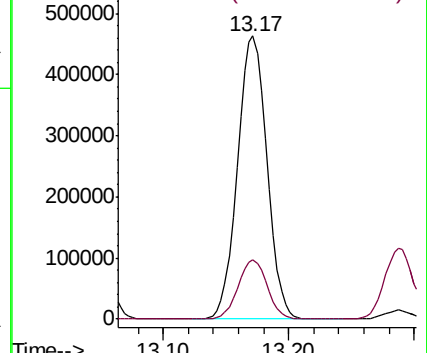
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 53.504 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

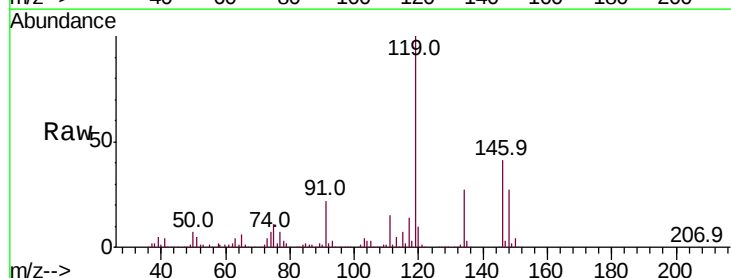
Tgt Ion:119 Resp: 692791

Ion Ratio Lower Upper

119 100

134 26.6 0.0 52.0

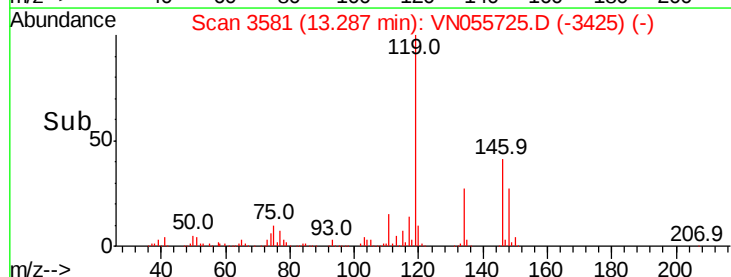
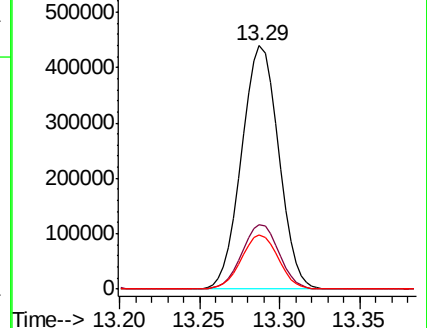
91 22.2 0.0 44.4

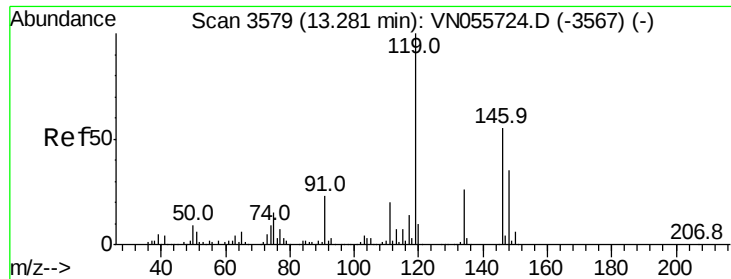


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





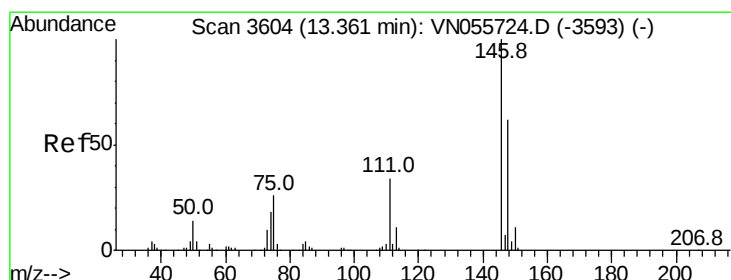
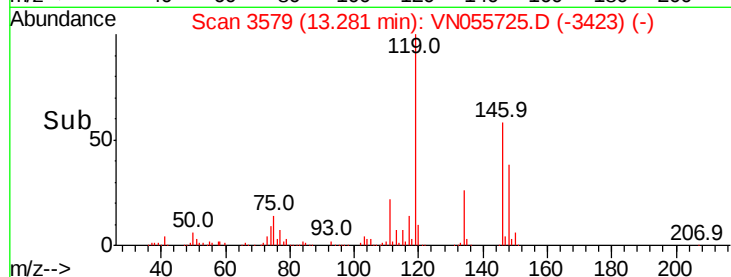
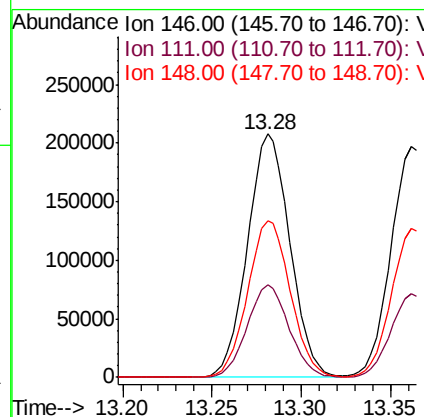
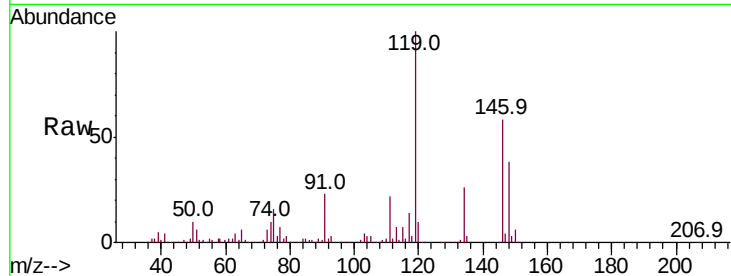
#83
 1,3-Dichlorobenzene
 Concen: 53.852 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDIC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.6	55.6
148	64.7	32.2	96.6

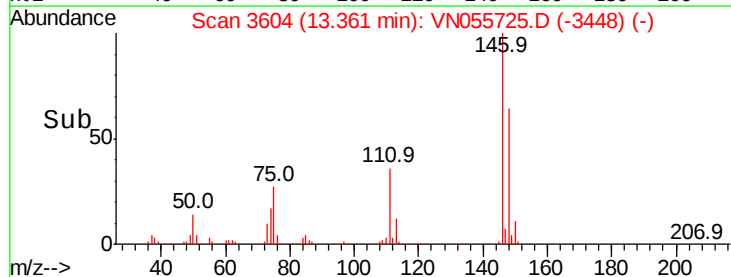
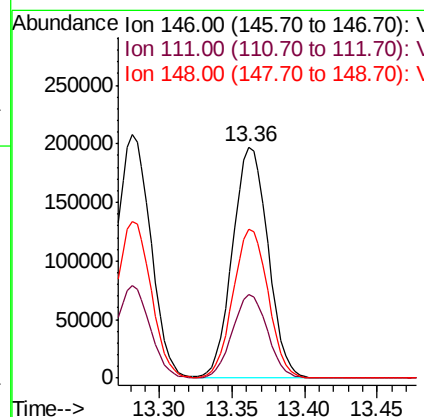
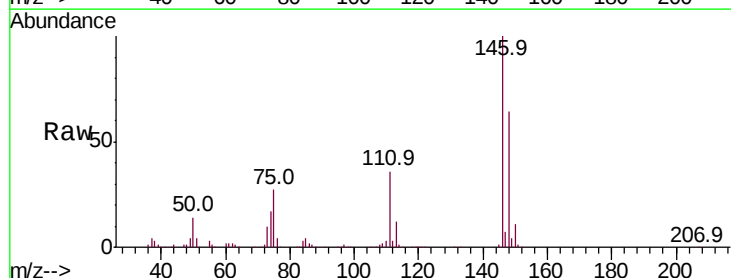
Manual Integrations
 APPROVED

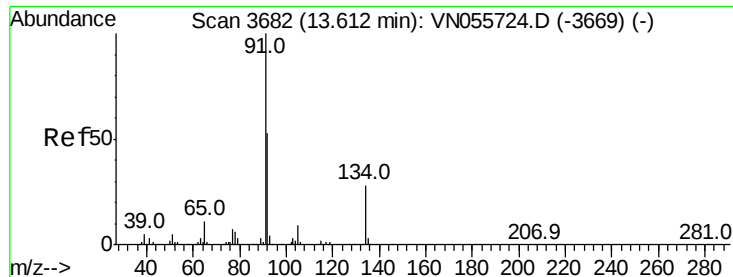
MMDadoda
 5/23/2019 12:31:00 PM



#84
 1,4-Dichlorobenzene
 Concen: 55.178 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.8	17.5	52.6
148	64.0	31.8	95.4





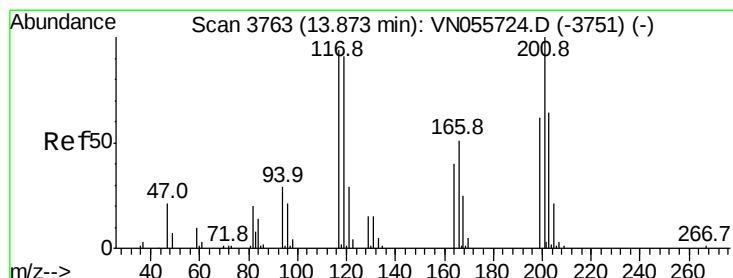
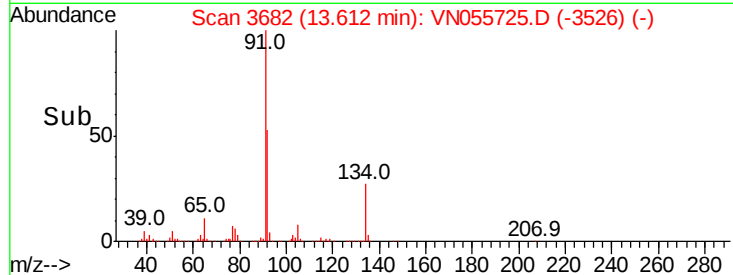
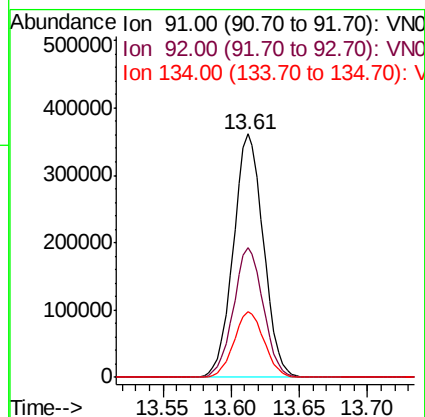
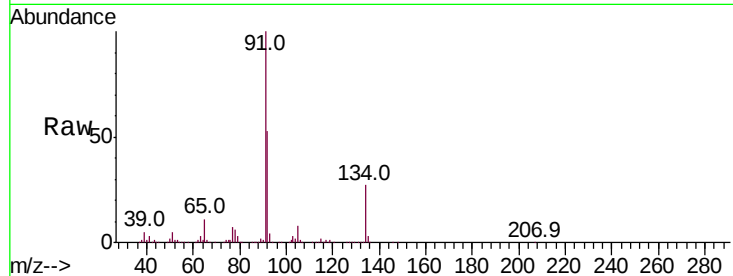
#85
n-Butylbenzene
Concen: 55.372 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:	91	Resp:	551950
Ion Ratio	Lower	Upper	
91	100		
92	52.9	0.0	106.8
134	27.2	0.0	55.2

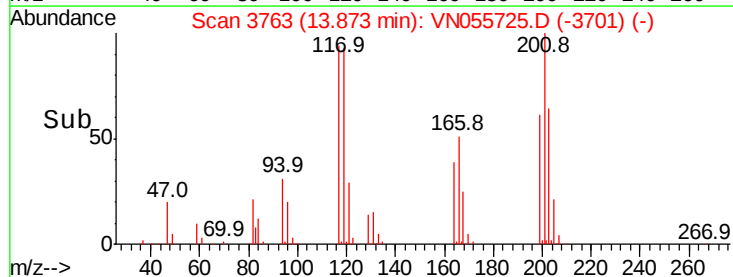
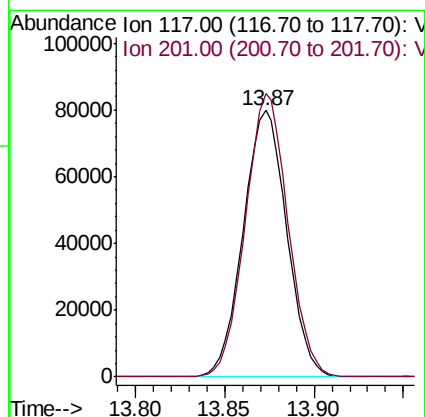
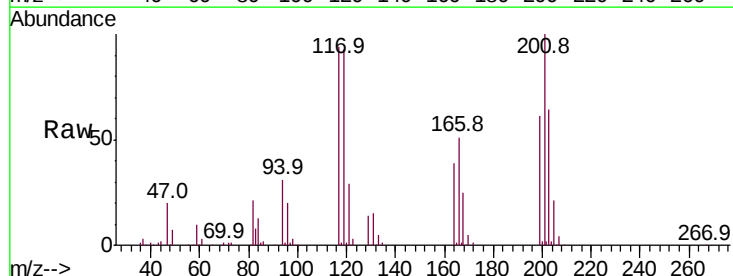
Manual Integrations
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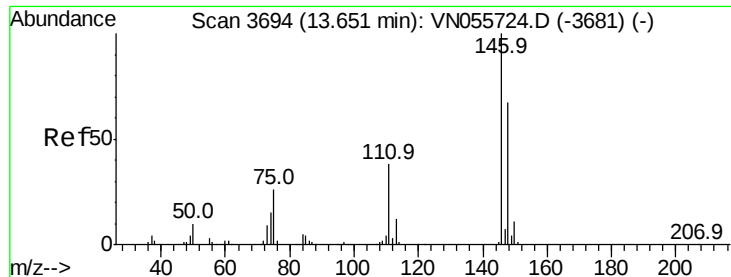
MMDadoda
5/23/2019 12:31:00 PM



#86
Hexachloroethane
Concen: 59.061 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion:	117	Resp:	136080
Ion Ratio	Lower	Upper	
117	100		
201	104.2	52.5	157.6





#87

1,2-Dichlorobenzene

Concen: 53.788 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Instrument :

MSVOA_N

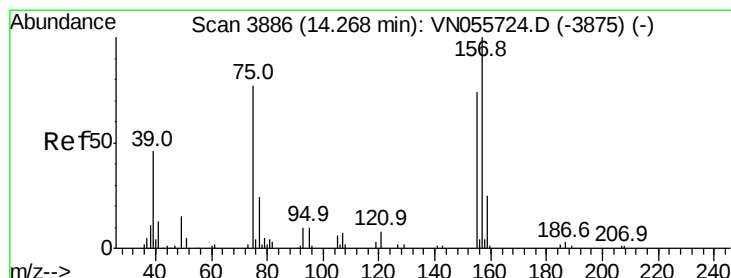
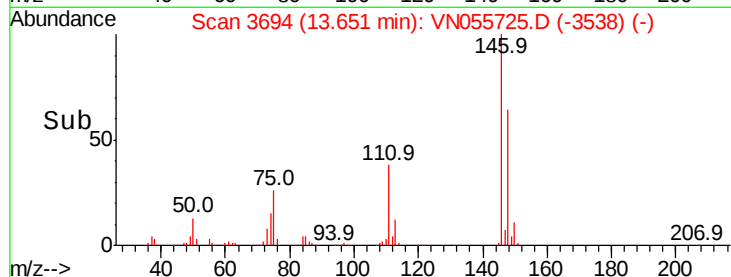
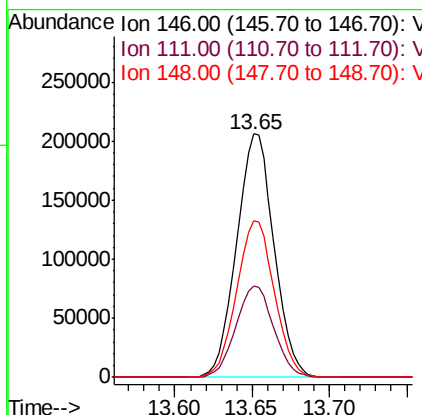
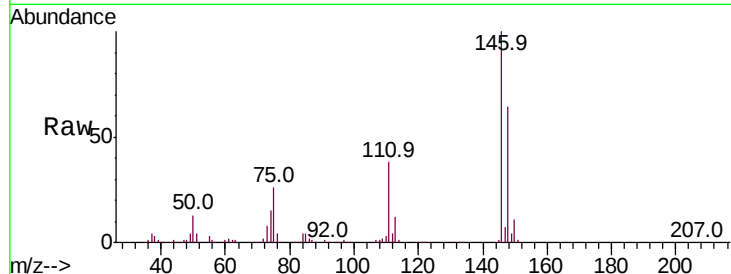
ClientSampled :

VSTDIC050

Tot Ion:	146	Resp:	346056
Ion Ratio	Lower	Upper	
146	100		
111	38.0	19.2	57.6
148	64.6	32.7	98.1

Manual Integrations
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#88

1,2-Dibromo-3-Chloropropane

Concen: 64.021 ug/l

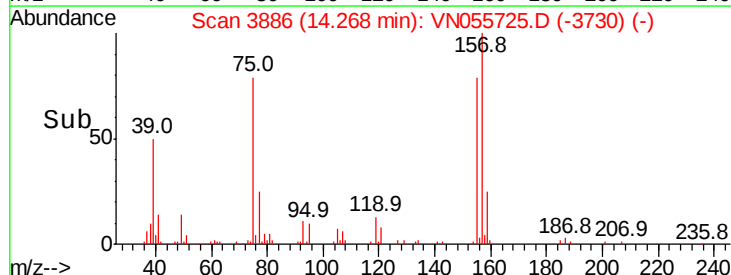
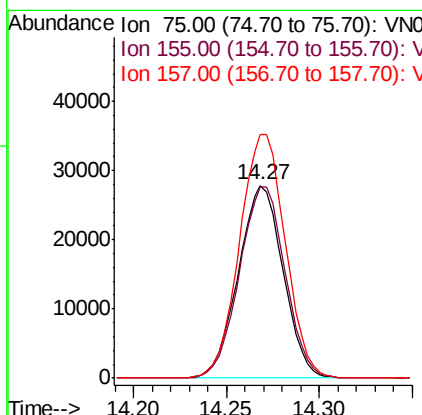
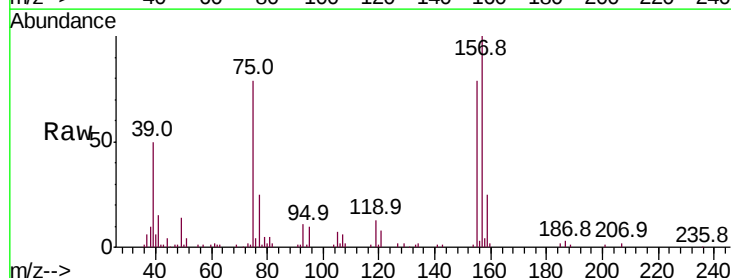
RT: 14.27 min Scan# 3886

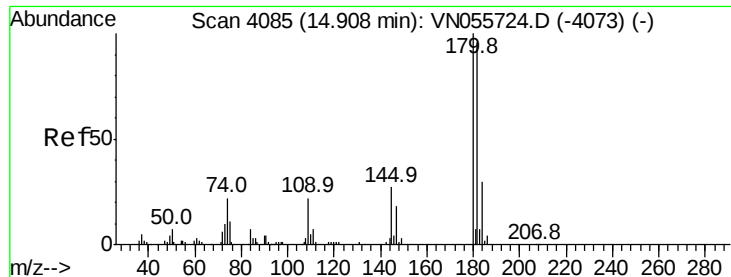
Delta R.T. 0.00 min

Lab File: VN055725.D

Acq: 22 May 2019 17:47

Tgt Ion:	75	Resp:	46724
Ion Ratio	Lower	Upper	
75	100		
155	101.3	78.4	117.6
157	128.8	105.0	157.4





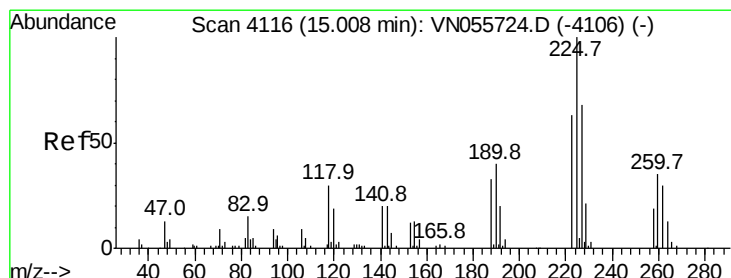
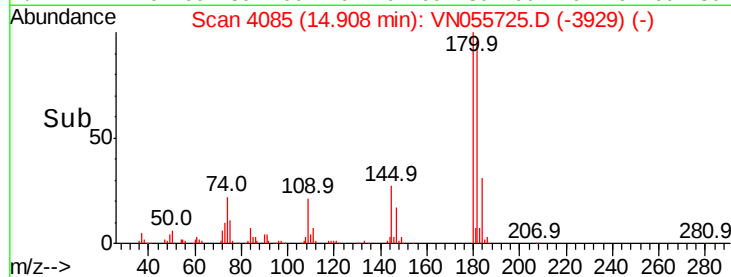
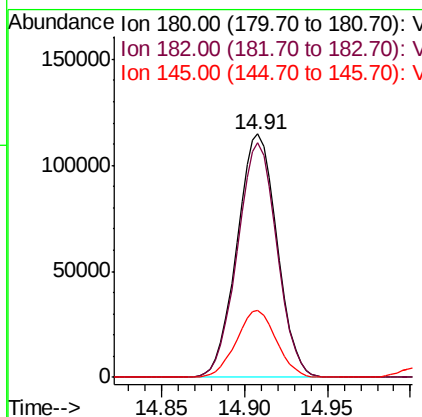
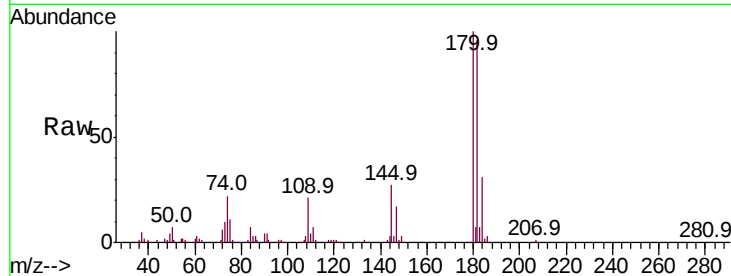
#89
 1,2,4-Trichlorobenzene
 Concen: 70.384 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	192109		
182	95.2	76.1	114.1	
145	27.6	21.8	32.8	

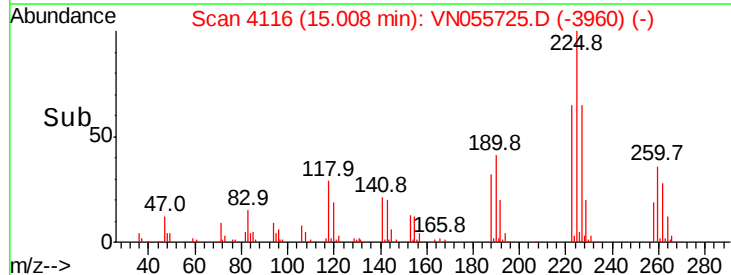
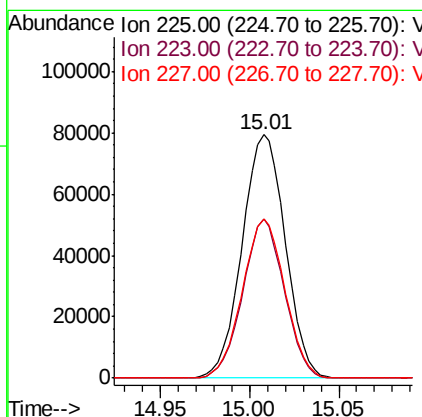
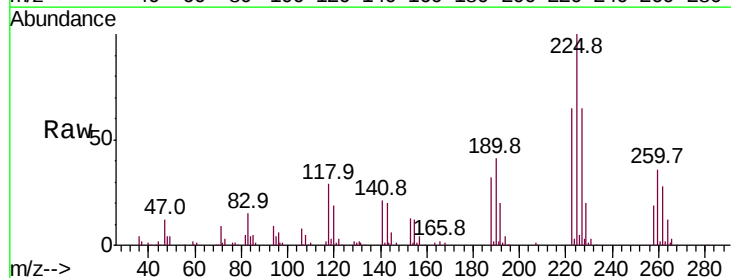
Manual Integrations
 APPROVED

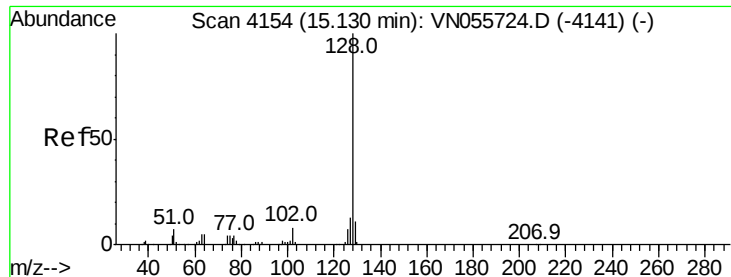
MMDadoda
 5/23/2019 12:31:00 PM



#90
 Hexachlorobutadiene
 Concen: 59.617 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN055725.D
 Acq: 22 May 2019 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	134297		
223	62.6	0.0	126.0	
227	64.4	0.0	133.0	





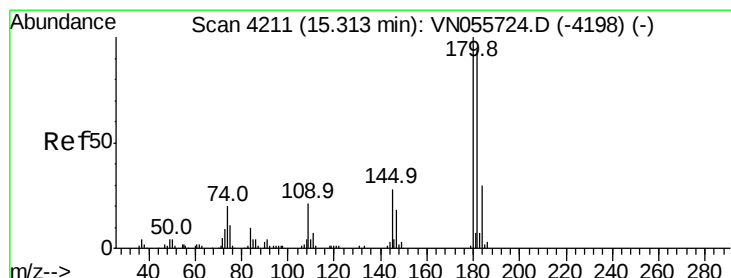
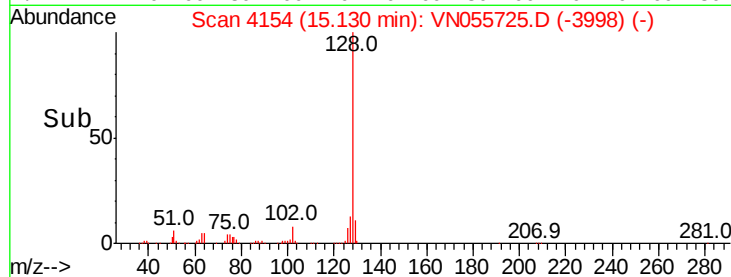
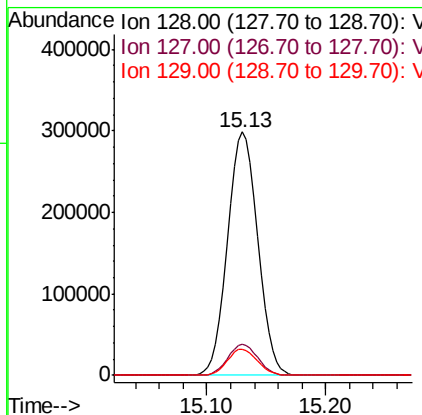
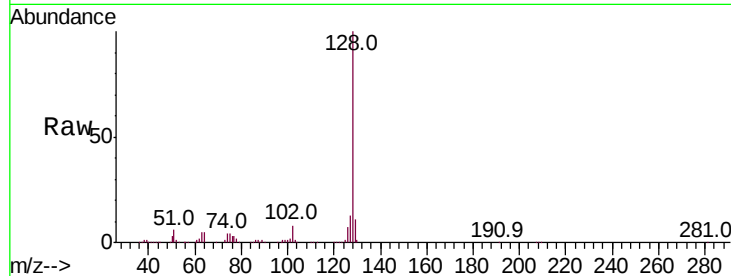
#91
Naphthalene
Concen: 78.971 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC050

Tot Ion:128	Resp:	527001
Ion Ratio	Lower	Upper
128 100		
127 12.7	10.0	15.0
129 10.7	8.7	13.1

Manual Integrations
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5/23/2019 12:31:00 PM



#92
1,2,3-Trichlorobenzene
Concen: 68.919 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN055725.D
Acq: 22 May 2019 17:47

Tgt Ion:180	Resp:	197937
Ion Ratio	Lower	Upper
180 100		
182 95.5	0.0	188.6
145 29.7	0.0	56.8

