

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057467.D
 Acq On : 23 Aug 2019 11:53
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:10 PM

Quant Time: Aug 23 23:25:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	71905	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	420630	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	351640	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	208038	30.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.03%
60) 4-Bromofluorobenzene	12.40	95	170170	29.35	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.83%
63) Toluene-d8	10.08	98	531998	29.96	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	84831	22.551	ug/l 97
3) Chloromethane	2.05	50	123178	21.806	ug/l 95
4) Vinyl Chloride	2.17	62	148192	20.650	ug/l 99
5) Bromomethane	2.55	94	99805	21.498	ug/l 99
6) Chloroethane	2.69	64	98121	20.413	ug/l 96
7) Trichlorofluoromethane	3.00	101	232870	20.402	ug/l 95
8) Diethyl Ether	3.39	74	90223	20.576	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	134966	20.994	ug/l 99
10) 1,1-Dichloroethene	3.71	96	124334	20.033	ug/l 98
11) Methyl Iodide	3.92	142	95273	17.077	ug/l 97
12) Methyl Acetate	4.31	43	127918	20.460	ug/l 100
13) Acrolein	3.59	56	80099	100.736	ug/l 100
14) Acrylonitrile	4.97	53	222504	102.442	ug/l 99
15) Acetone	3.80	58	115060	113.240	ug/l 84
16) Carbon Disulfide	4.02	76	227916	20.617	ug/l 100
17) Allyl chloride	4.29	41	175984	20.784	ug/l 96
18) Methylene Chloride	4.53	84	94325	20.724	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	88003	20.532	ug/l 93
20) Diisopropyl ether	5.94	45	369595	20.446	ug/l 98
21) 1,1-Dichloroethane	5.82	63	194754	20.734	ug/l 96
22) cis-1,2-Dichloroethene	6.81	96	107905	20.698	ug/l 99
23) tert-Butyl Alcohol	4.80	59	83600	105.958	ug/l 100
24) Methyl tert-Butyl Ether	5.03	73	298895	20.844	ug/l 99
25) Chloroform	7.36	83	185920	19.936	ug/l 98
26) Cyclohexane	7.64	56	168154	20.104	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	141028	19.728	ug/l 99
30) 2-Butanone	6.83	43	349237	101.611	ug/l 99
31) 2,2-Dichloropropane	6.81	77	171936	21.051	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	161876	19.808	ug/l 99
33) Carbon Tetrachloride	7.76	117	131658	19.401	ug/l 95
34) Benzene	8.03	78	418496	19.907	ug/l 97
35) Methacrylonitrile	7.16	41	68686	19.746	ug/l 98
36) 1,2-Dichloroethane	8.11	62	162610m	19.732	ug/l
37) Trichloroethene	8.83	130	94273	19.656	ug/l 100
38) Methylcyclohexane	9.07	83	161974	20.187	ug/l 98
39) 1,2-Dichloropropane	9.11	63	118628	19.846	ug/l 95
40) Dibromomethane	9.20	93	71658	19.616	ug/l 99

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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	148059	19.110	ug/l	98
42) Vinyl Acetate	5.88	43	1521627	98.930	ug/l	100
43) Ethyl Acetate	6.92	43	138978	20.774	ug/l	100
44) Isopropyl Acetate	8.16	43	254984	19.966	ug/l #	92
45) 1,4-Dioxane	9.20	88	31476	410.037	ug/l	97
46) Methyl methacrylate	9.19	41	119222	19.657	ug/l	97
47) n-amyl Acetate	12.07	43	196137	19.082	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	157245	19.212	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	178969	19.894	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	95242	19.883	ug/l	97
51) Ethyl methacrylate	10.43	69	156129	19.607	ug/l	96
52) 1,3-Dichloropropane	10.70	76	173518	19.868	ug/l	100
53) Dibromochloromethane	10.90	129	99719	19.527	ug/l	100
54) 1,2-Dibromoethane	11.00	107	94465	19.273	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	186944	95.240	ug/l	99
56) Bromoform	12.13	173	58311	19.132	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	710715	103.027	ug/l	100
59) 2-Hexanone	10.75	43	504580	105.528	ug/l	100
61) Tetrachloroethene	10.63	164	81101	20.111	ug/l	92
62) Toluene	10.15	91	427376	19.886	ug/l	98
64) Chlorobenzene	11.43	112	235498	20.156	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	88896	20.021	ug/l	99
66) Ethyl Benzene	11.51	91	462389	20.103	ug/l	100
67) m/p-Xylenes	11.62	106	327634	41.069	ug/l	95
68) o-Xylene	11.95	106	156680	19.874	ug/l	97
69) Styrene	11.96	104	249630	19.821	ug/l	98
70) Isopropylbenzene	12.25	105	421381	19.980	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	125244	20.535	ug/l	95
72) 1,2,3-Trichloropropane	12.55	75	111078m	20.063	ug/l	
73) Bromobenzene	12.53	156	83537	19.569	ug/l	96
74) n-propylbenzene	12.59	91	481838	20.035	ug/l	99
75) 2-Chlorotoluene	12.68	91	284274	20.071	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	346952	20.045	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38495	19.389	ug/l	97
78) 4-Chlorotoluene	12.78	91	261725	19.557	ug/l	100
79) tert-butylbenzene	12.99	119	291424	19.787	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	331555	20.547	ug/l	99
81) sec-Butylbenzene	13.17	105	389076	20.047	ug/l	98
82) p-Isopropyltoluene	13.29	119	326410	20.005	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	129722	19.520	ug/l	100
84) 1,4-Dichlorobenzene	13.37	146	127360	19.700	ug/l	99
85) n-Butylbenzene	13.62	91	288255	20.264	ug/l	97
86) Hexachloroethane	13.88	117	67186	20.407	ug/l	94
87) 1,2-Dichlorobenzene	13.66	146	127370	19.516	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	19722	19.268	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	42907	17.546	ug/l	99
90) Hexachlorobutadiene	15.01	225	41986	22.331	ug/l	97
91) Naphthalene	15.13	128	140428	21.656	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	46167	18.878	ug/l	99

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QLast Update : Fri Aug 23 23:15:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

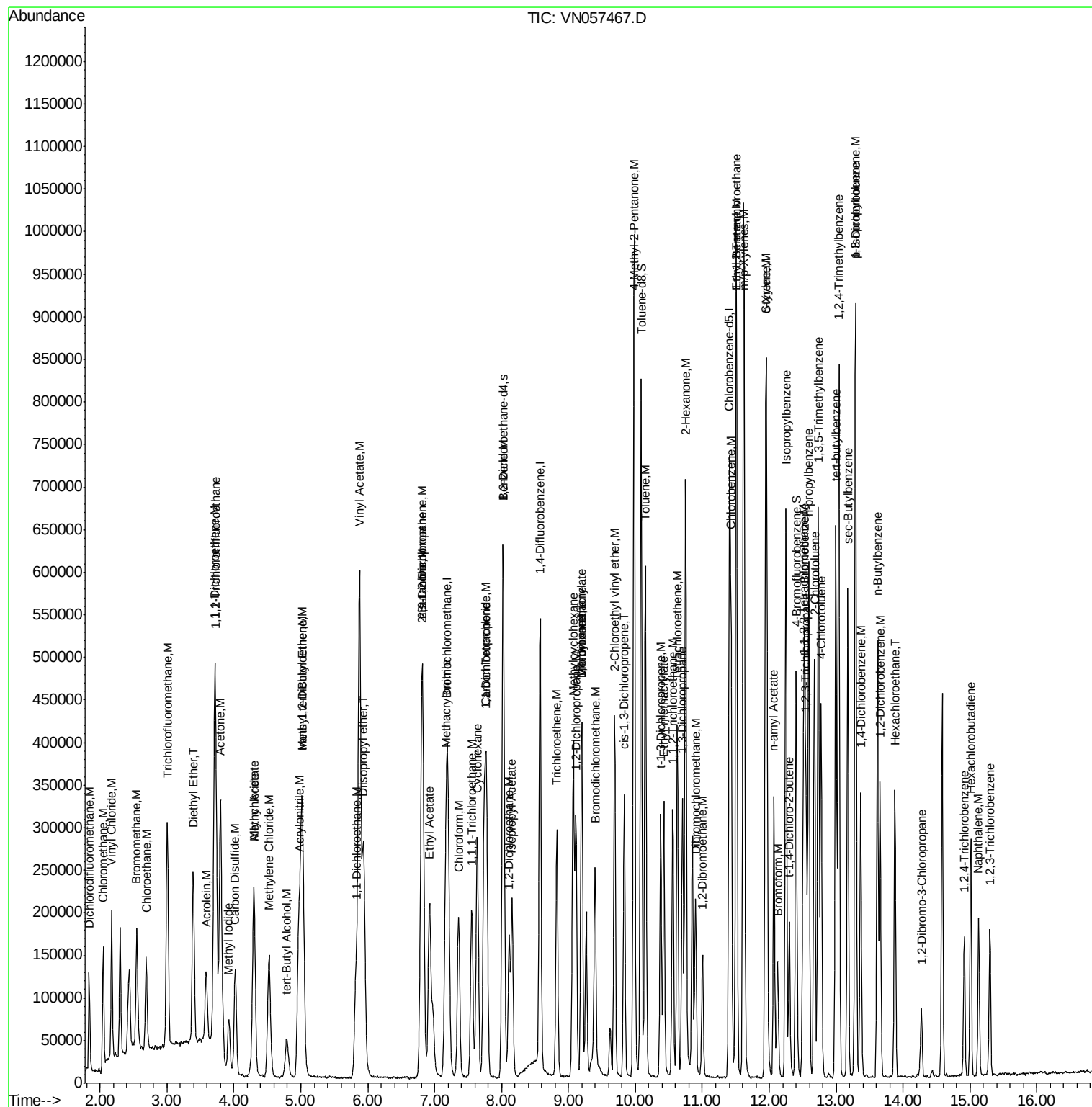
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057467.D
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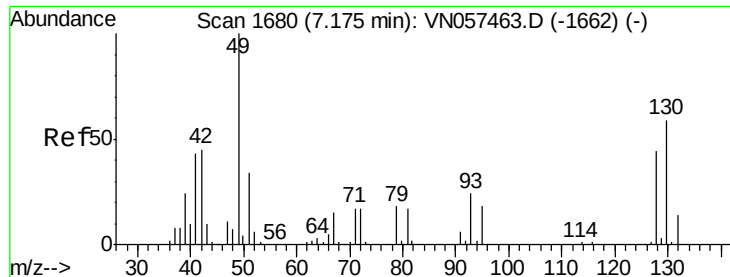
Instrument :
 MSVOA_N
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

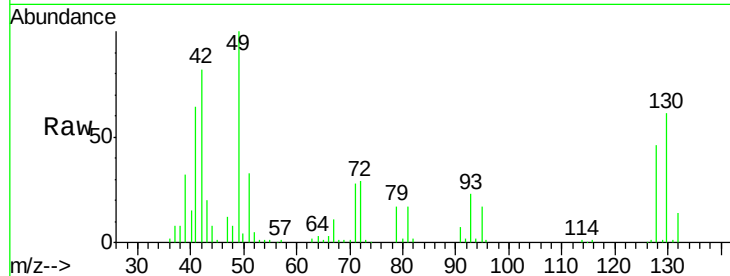
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ICVVN082319

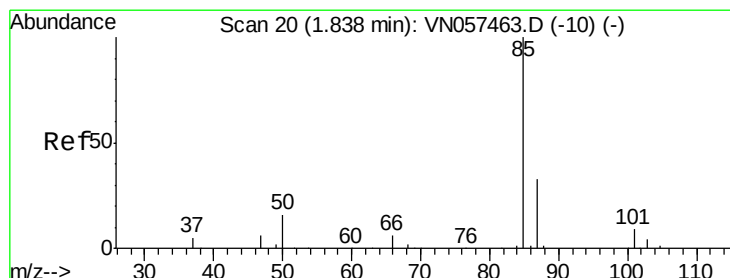
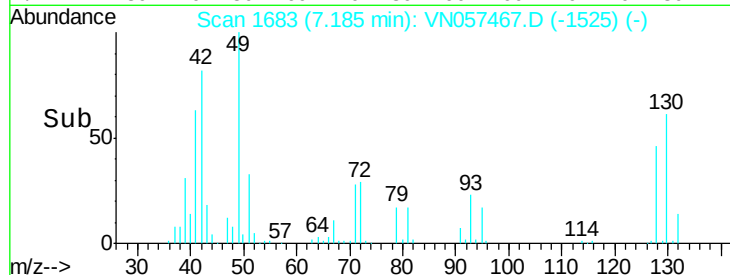
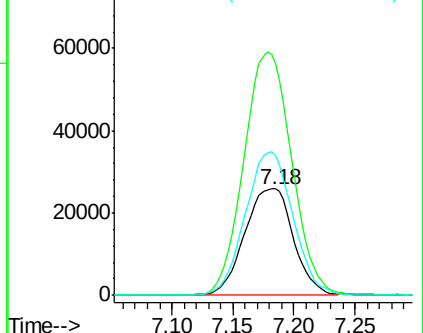
Tot Ion:	128	Resp:	71905
Ion	Ratio	Lower	Upper
128	100		
49	223.9	0.0	560.5
130	131.4	0.0	317.3

Manual Integrations
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Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 22.551 ug/l

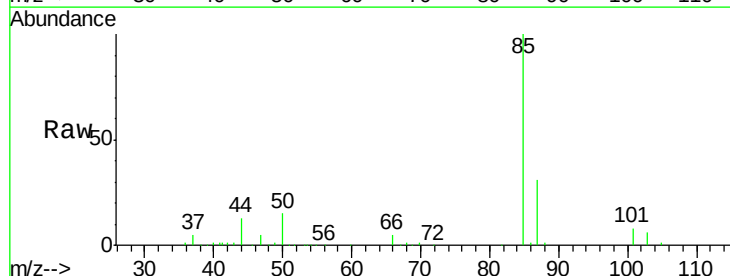
RT: 1.84 min Scan# 20

Delta R.T. -0.00 min

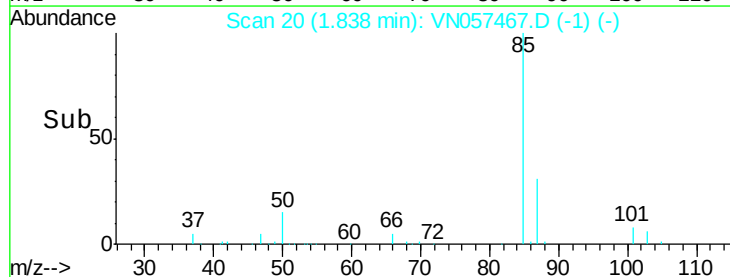
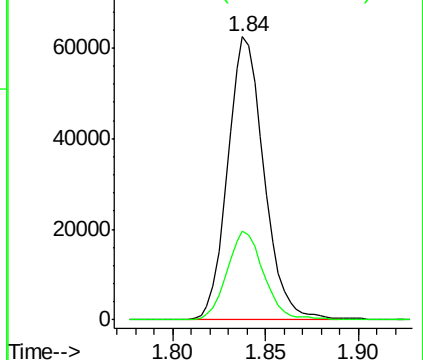
Lab File: VN057467.D

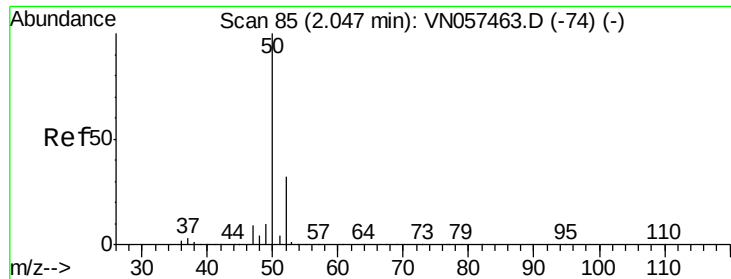
Acq: 23 Aug 2019 11:53

Tgt Ion:	85	Resp:	84831
Ion	Ratio	Lower	Upper
85	100		
87	31.2	16.4	49.1



Abundance Ion 85.00 (84.70 to 85.70): VN
Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 21.806 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 50 Resp: 123178

Ion Ratio Lower Upper

50 100

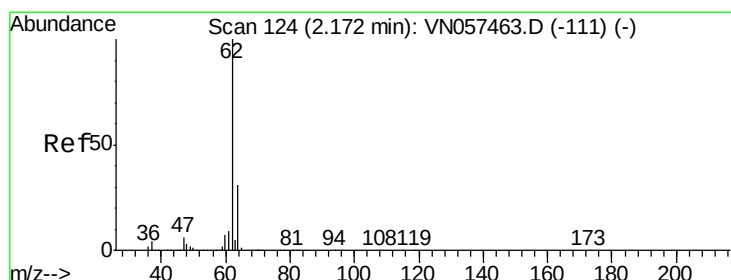
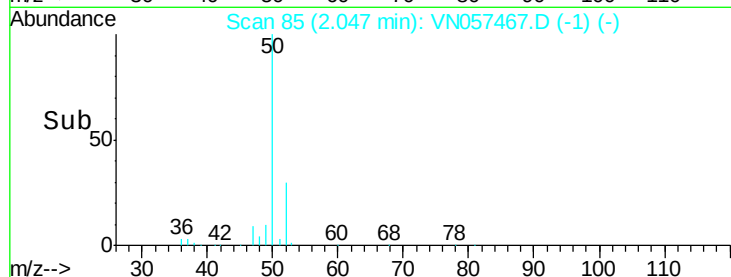
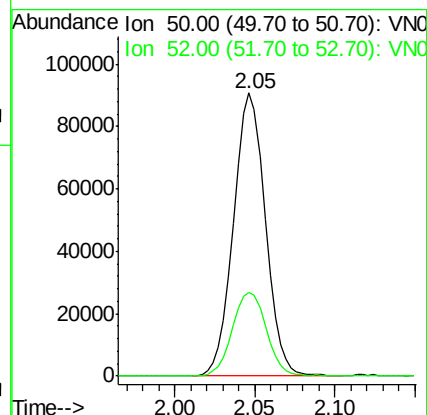
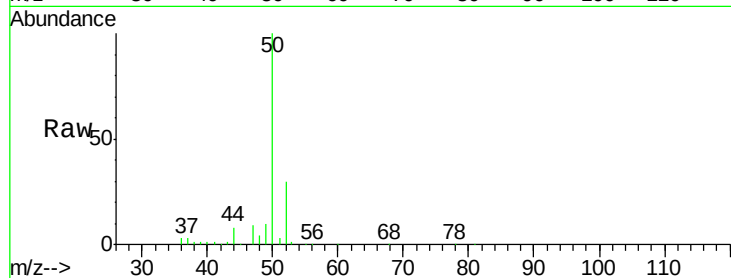
52 29.6 25.8 38.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.650 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN057467.D

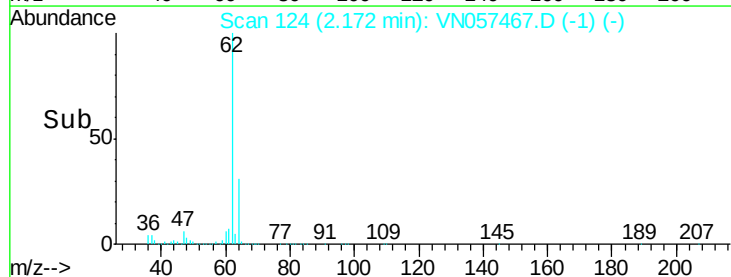
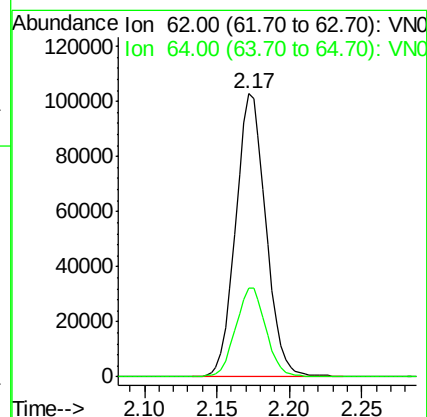
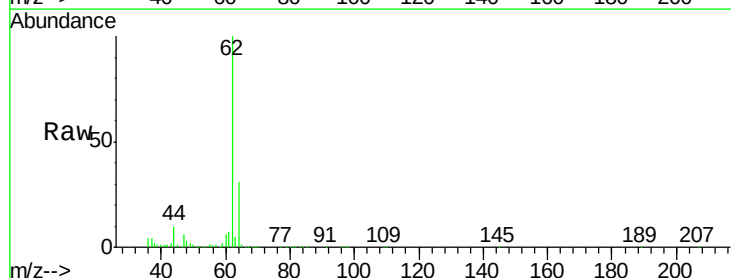
Acq: 23 Aug 2019 11:53

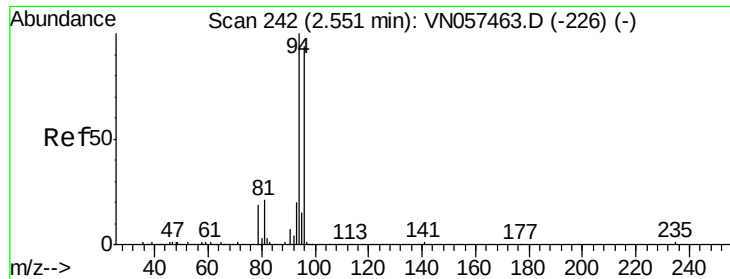
Tgt Ion: 62 Resp: 148192

Ion Ratio Lower Upper

62 100

64 31.4 24.8 37.2





#5

Bromomethane

Concen: 21.498 ug/l

RT: 2.55 min Scan# 241

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 99805

Ion Ratio Lower Upper

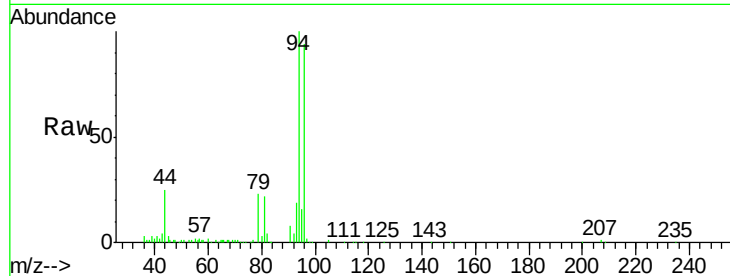
94 100

96 94.8 74.8 112.2

Manual Integrations
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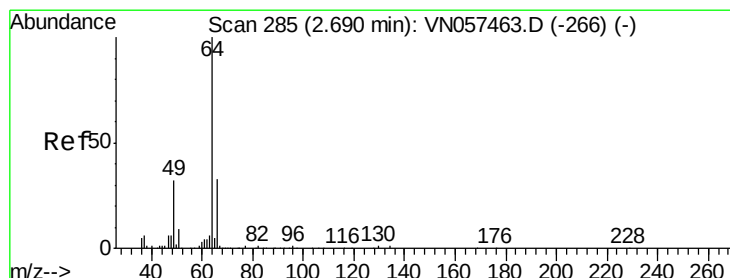
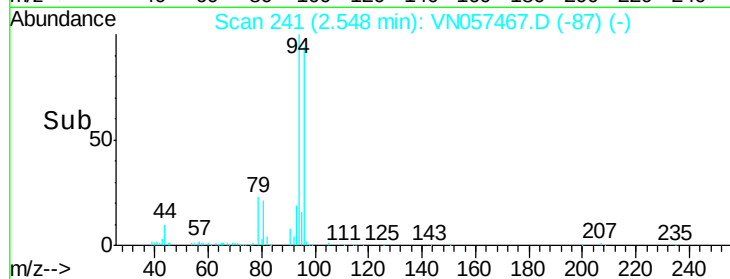
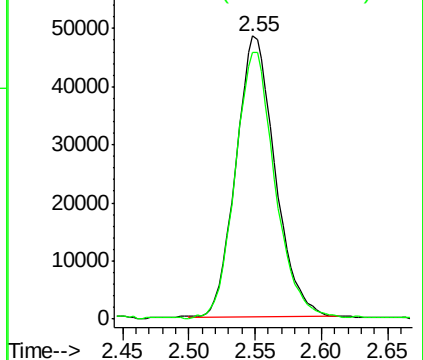
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 20.413 ug/l

RT: 2.69 min Scan# 285

Delta R.T. -0.00 min

Lab File: VN057467.D

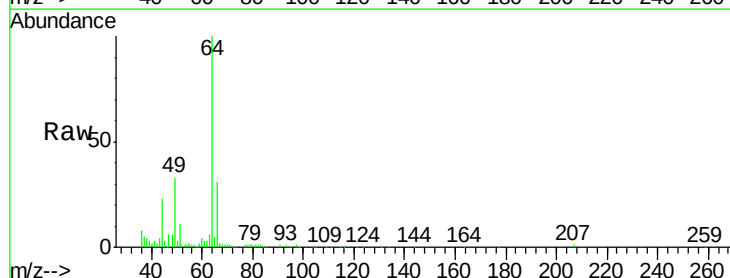
Acq: 23 Aug 2019 11:53

Tgt Ion: 64 Resp: 98121

Ion Ratio Lower Upper

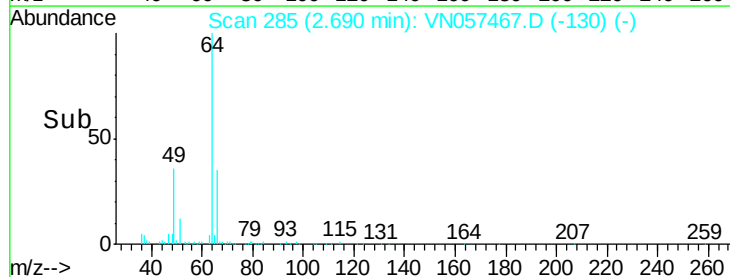
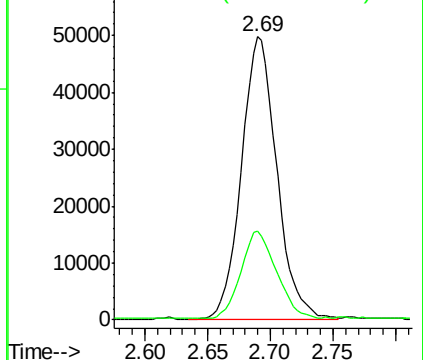
64 100

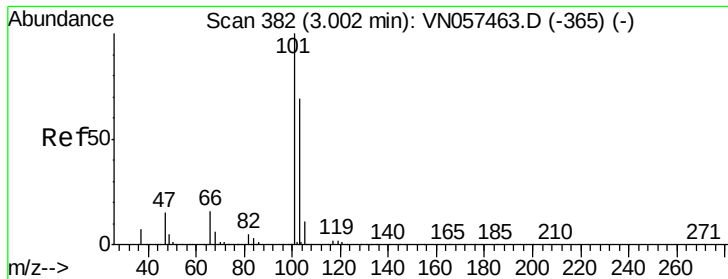
66 30.7 26.3 39.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

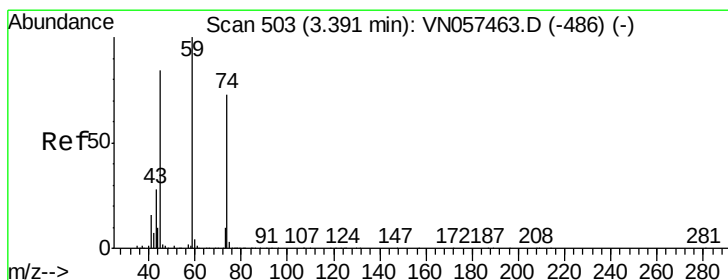
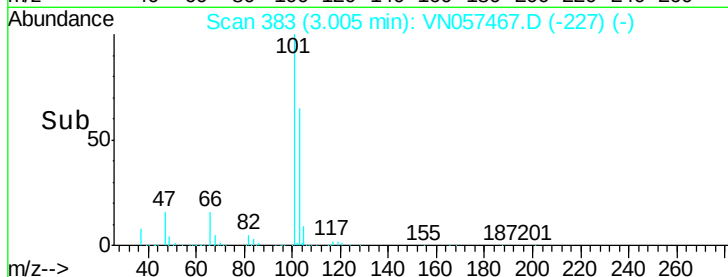
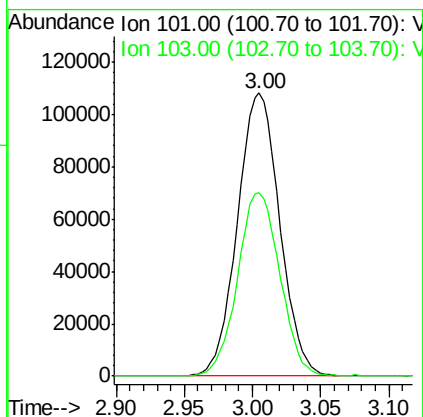
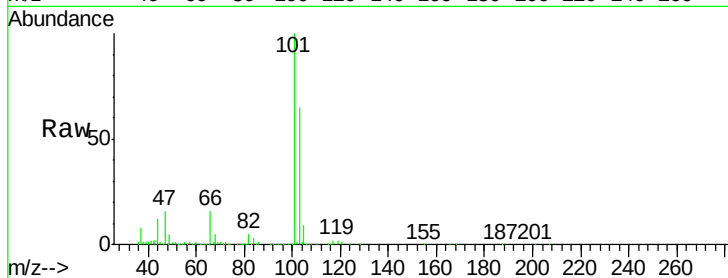
Trichlorofluoromethane
 Concen: 20.402 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

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Tot Ion	Ratio	Lower	Upper
101	100		
103	64.5	55.0	82.4

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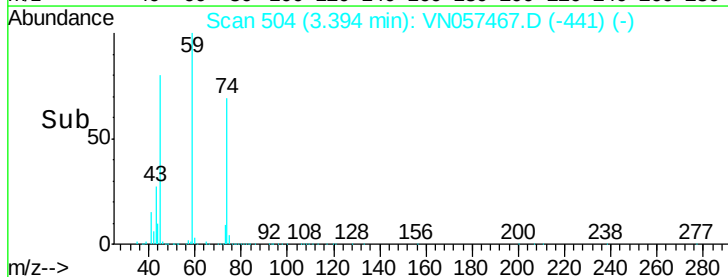
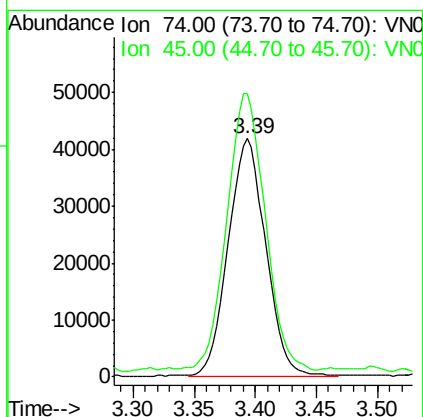
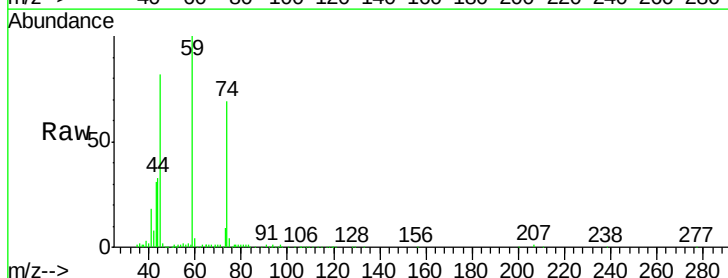
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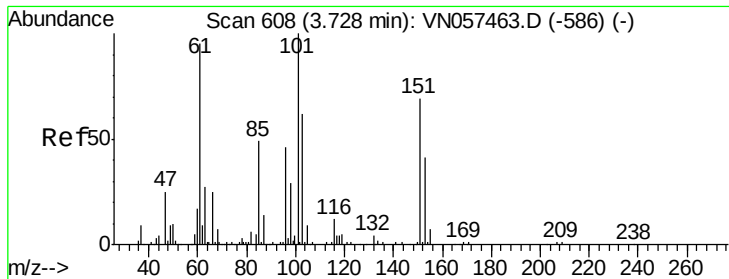


#8

Diethyl Ether
 Concen: 20.576 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	118.3	23.2	209.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.994 ug/l

RT: 3.73 min Scan# 609

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

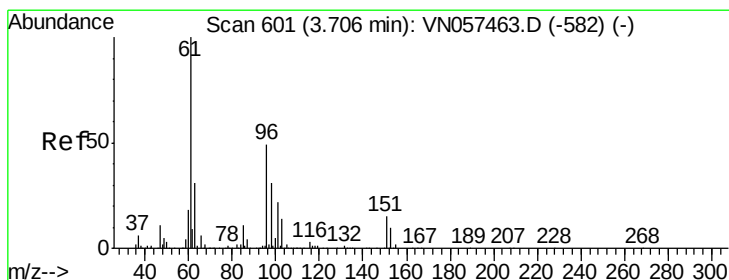
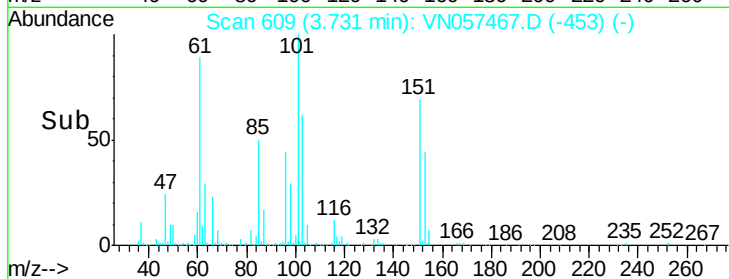
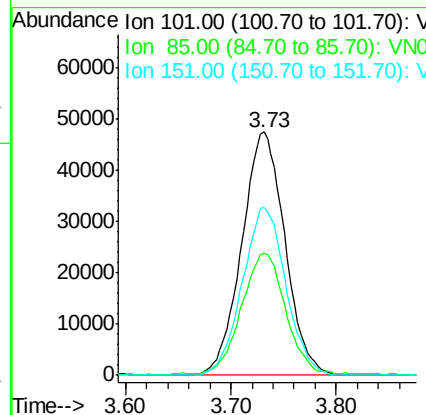
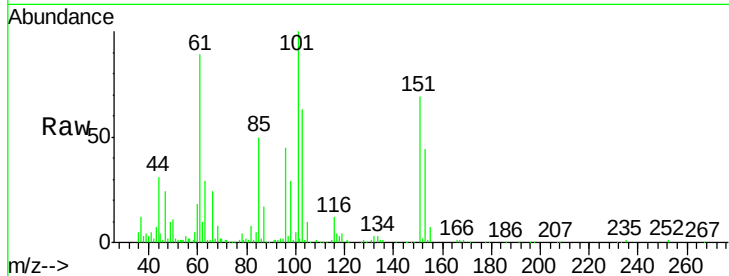
ClientSampleId :

ICVVN082319

Tot Ion:	101	Resp:	134966
Ion Ratio	Lower	Upper	
101	100		
85	49.6	0.0	101.6
151	69.6	0.0	139.4

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#10

1,1-Dichloroethene

Concen: 20.033 ug/l

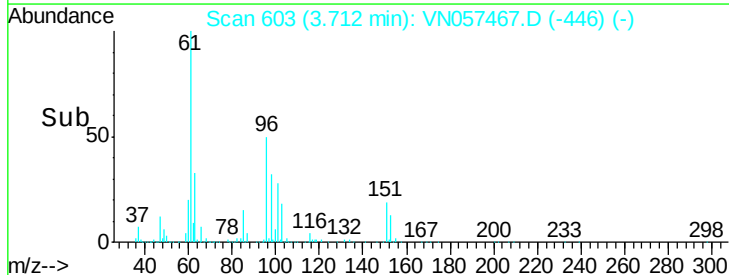
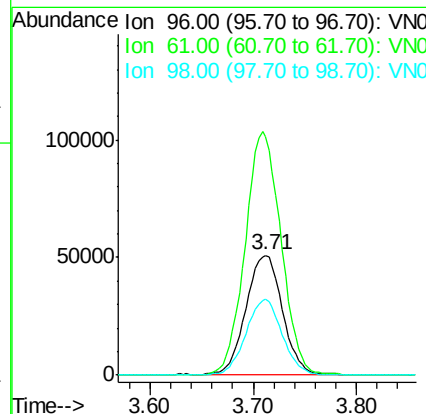
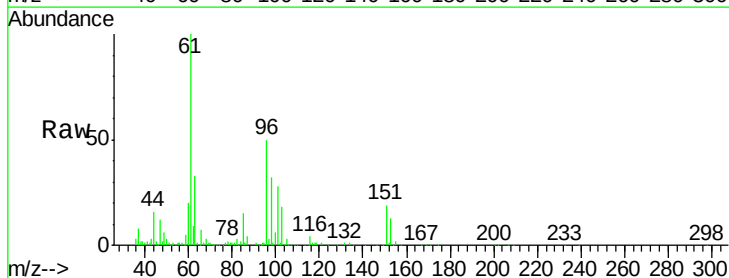
RT: 3.71 min Scan# 603

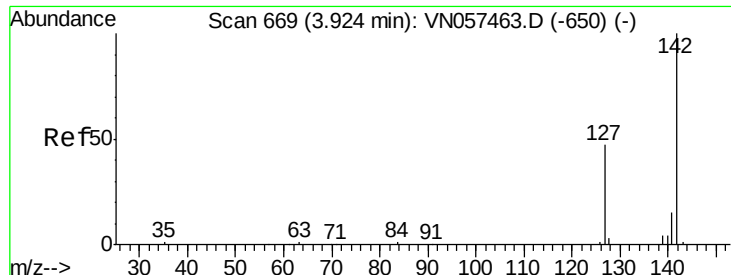
Delta R.T. 0.01 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	96	Resp:	124334
Ion Ratio	Lower	Upper	
96	100		
61	200.1	162.6	244.0
98	64.1	51.1	76.7





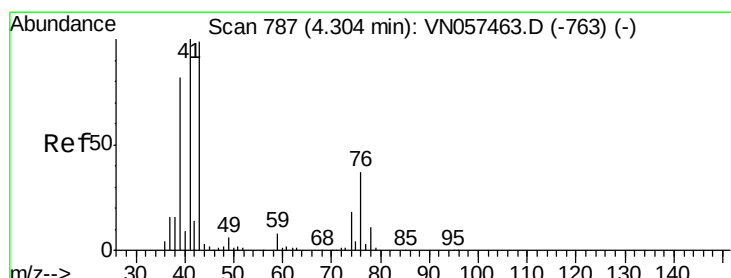
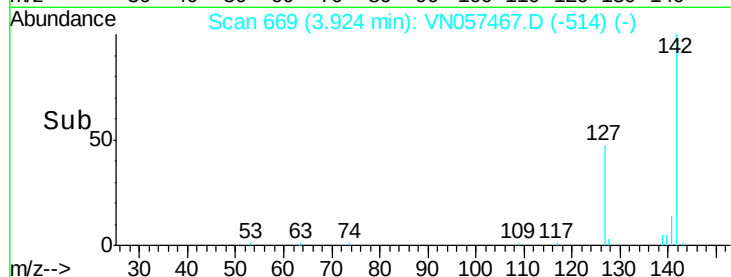
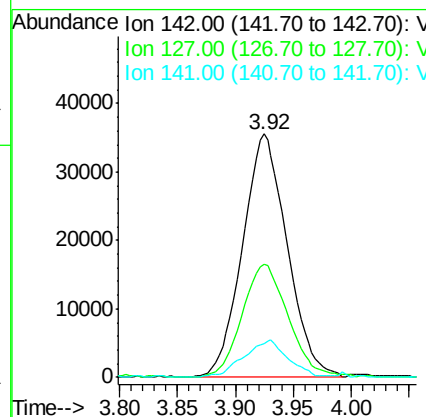
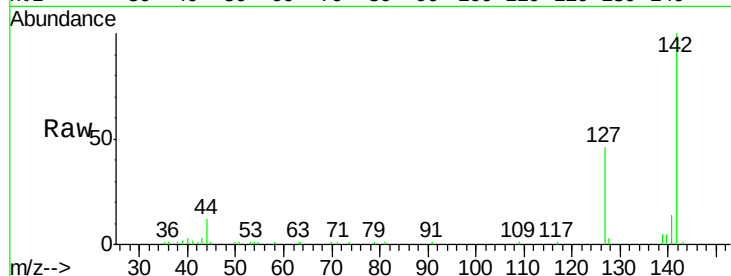
#11
Methyl Iodide
Concen: 17.077 ug/l
RT: 3.92 min Scan# 669
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Lower	Upper
142	100		
127	45.7	24.0	72.0
141	12.8	7.0	21.1

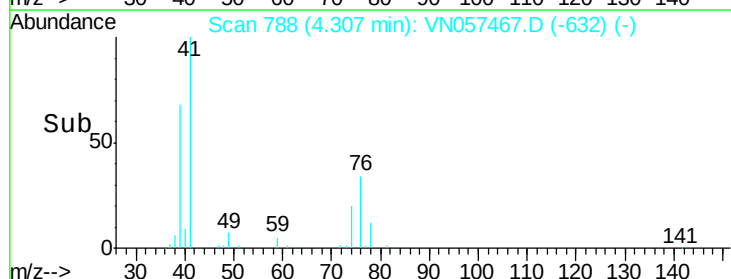
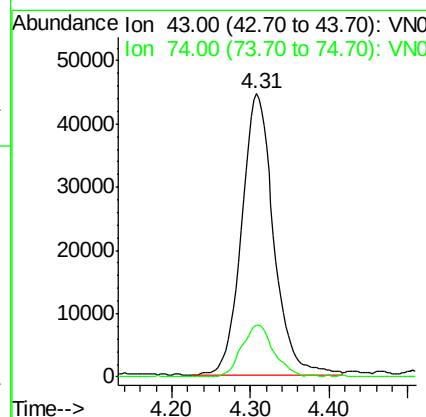
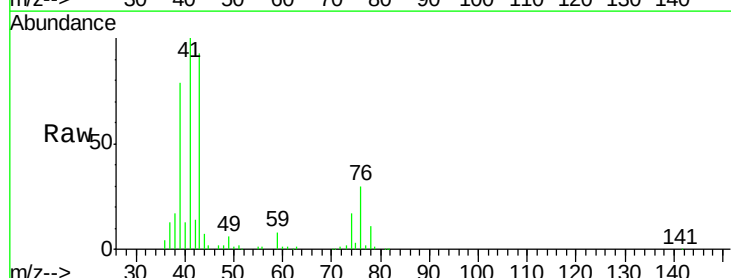
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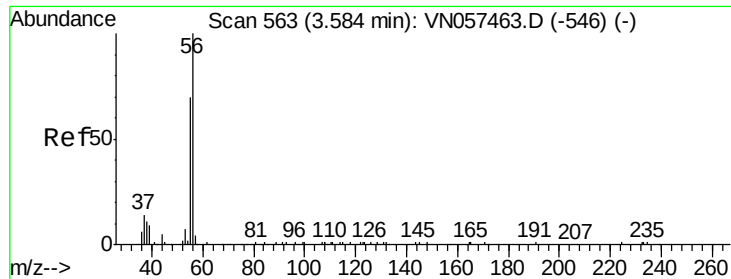
MMDadoda
8/26/2019 1:12:10 PM



#12
Methyl Acetate
Concen: 20.460 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.3	14.6	22.0





#13

Acrolein

Concen: 100.736 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 56 Resp: 80099

Ion Ratio Lower Upper

56 100

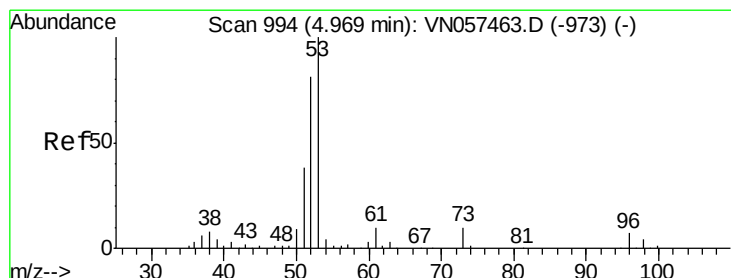
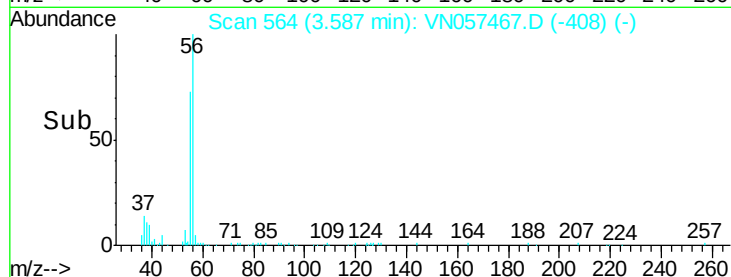
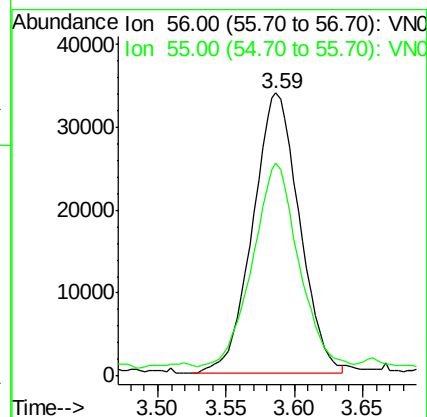
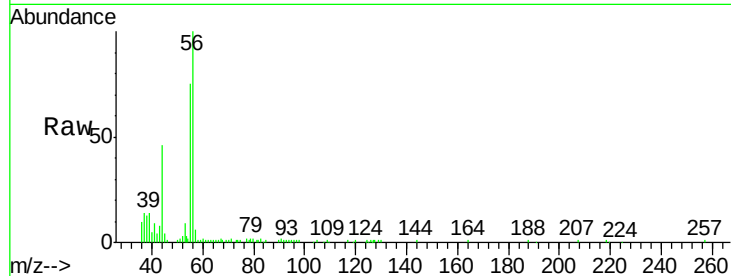
55 70.9 56.7 85.1

Manual Integrations

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#14

Acrylonitrile

Concen: 102.442 ug/l

RT: 4.97 min Scan# 994

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

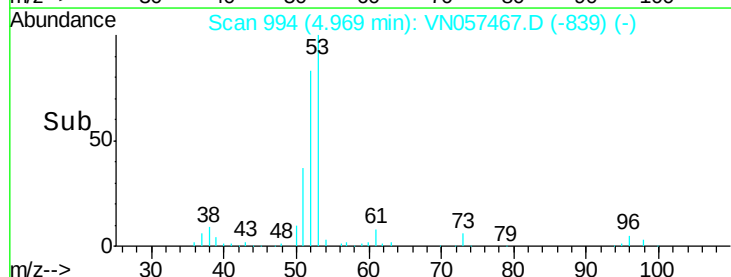
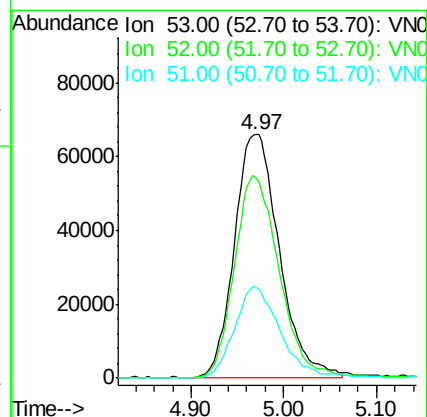
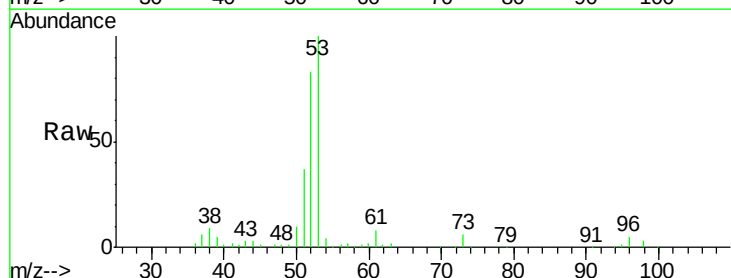
Tgt Ion: 53 Resp: 222504

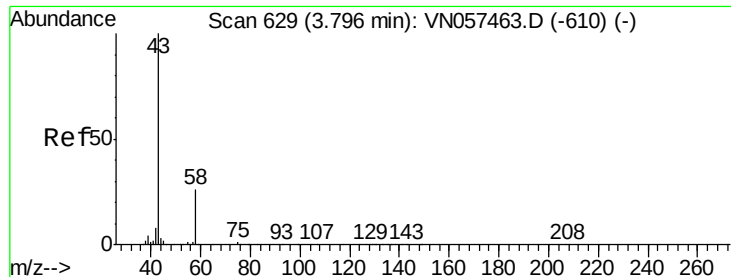
Ion Ratio Lower Upper

53 100

52 81.4 41.3 123.9

51 37.6 18.3 54.9





#15

Acetone

Concen: 113.240 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tot Ion: 58 Resp: 115060

Ion Ratio Lower Upper

58 100

43 416.1 304.4 456.6

Instrument :

MSVOA_N

ClientSampleId :

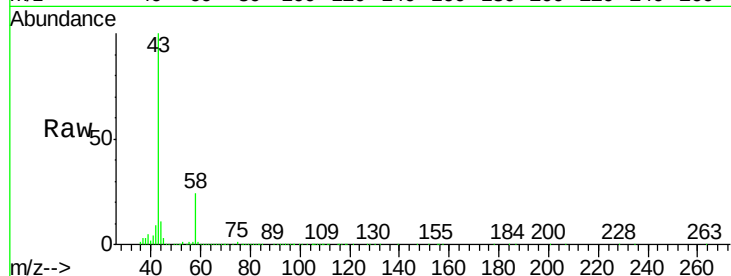
ICVVN082319

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Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

200000

150000

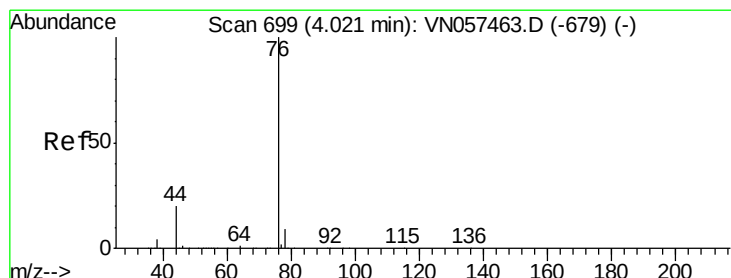
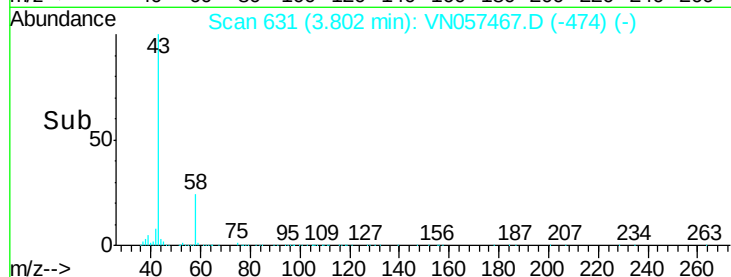
100000

50000

0

3.70 3.80 3.90

Time-->



#16

Carbon Disulfide

Concen: 20.617 ug/l

RT: 4.02 min Scan# 699

Delta R.T. -0.00 min

Lab File: VN057467.D

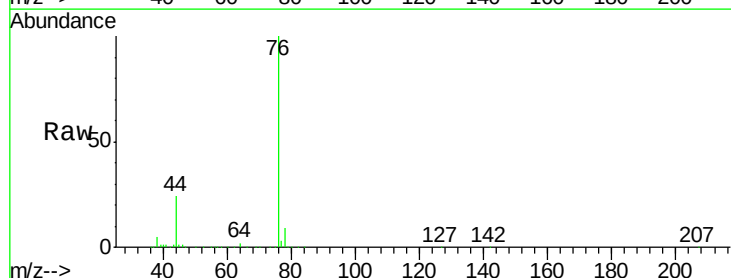
Acq: 23 Aug 2019 11:53

Tgt Ion: 76 Resp: 227916

Ion Ratio Lower Upper

76 100

78 9.4 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

100000

80000

60000

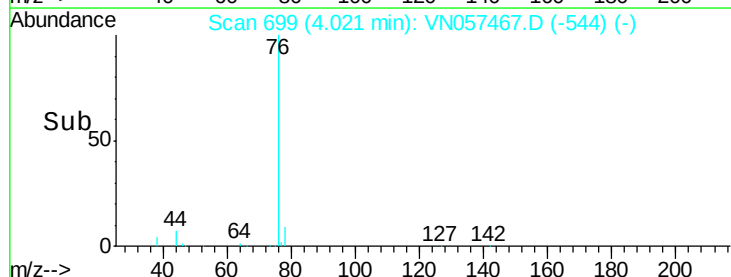
40000

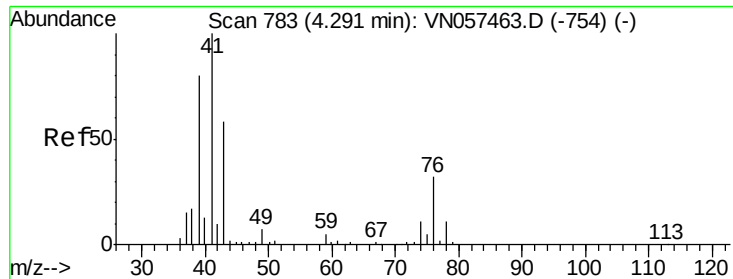
20000

0

3.90 4.00 4.10

Time-->





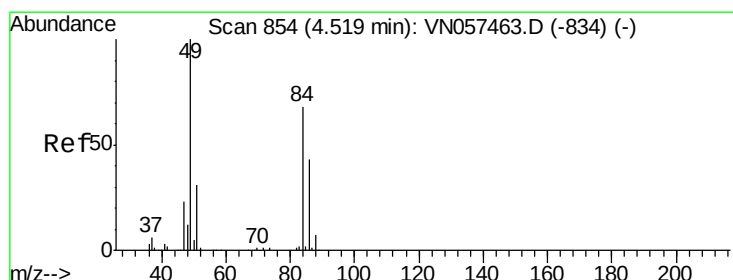
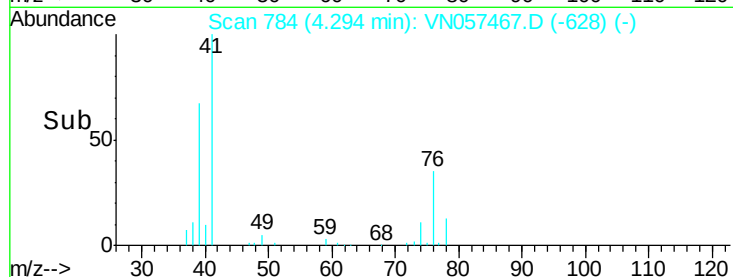
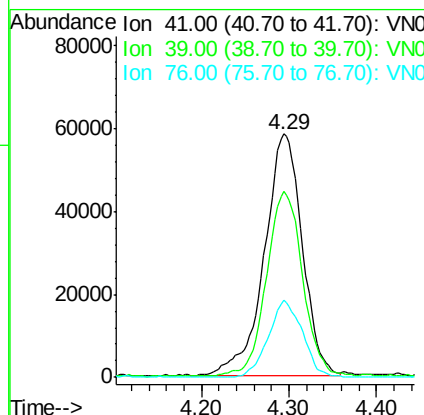
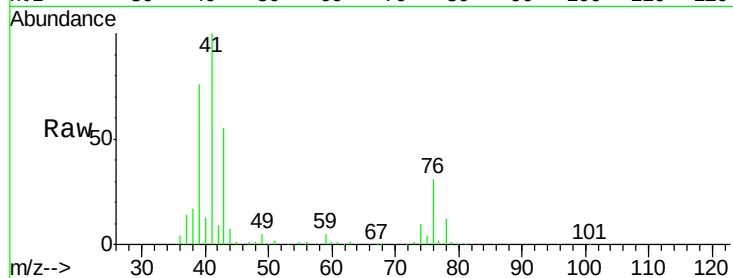
#17
Allvl chloride
Concen: 20.784 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion:	41	Resp:	175984
Ion	Ratio	Lower	Upper
41	100		
39	76.2	40.1	120.2
76	31.3	16.2	48.6

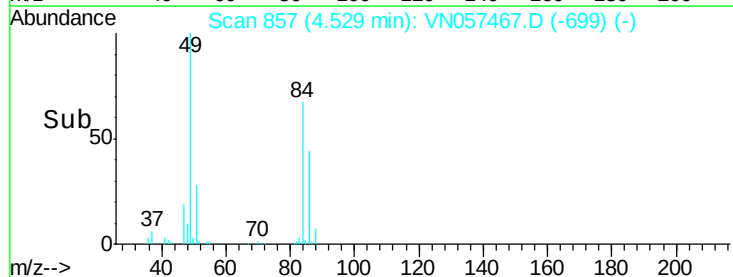
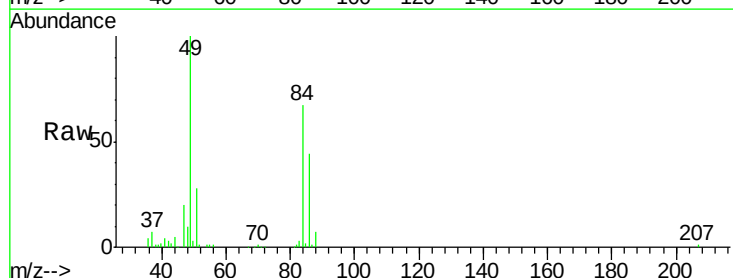
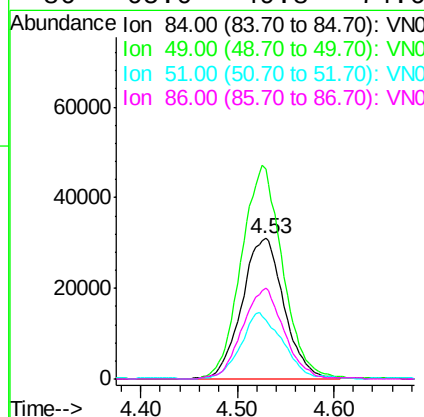
Manual Integrations
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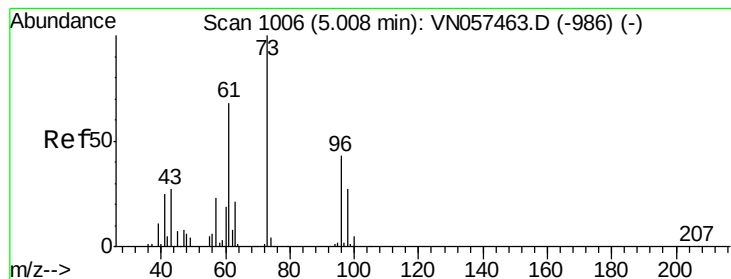
MMDadoda
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#18
Methylene Chloride
Concen: 20.724 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion:	84	Resp:	94325
Ion	Ratio	Lower	Upper
84	100		
49	148.9	116.8	175.2
51	41.8	36.4	54.6
86	65.0	49.8	74.6





#19

trans-1,2-Dichloroethene

Concen: 20.532 ug/l

RT: 5.01 min Scan# 1008

Delta R.T. 0.01 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

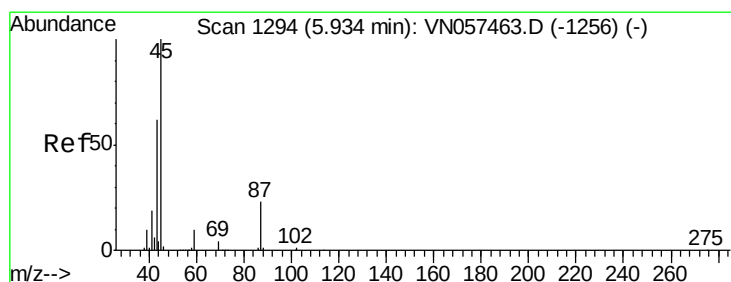
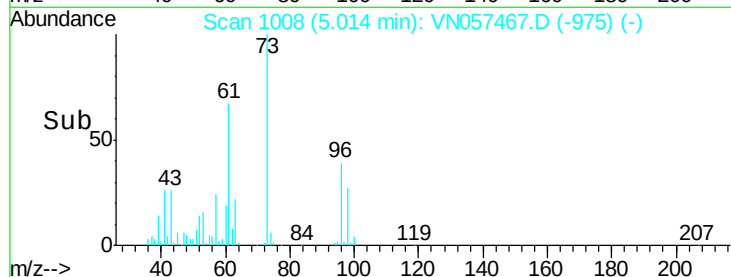
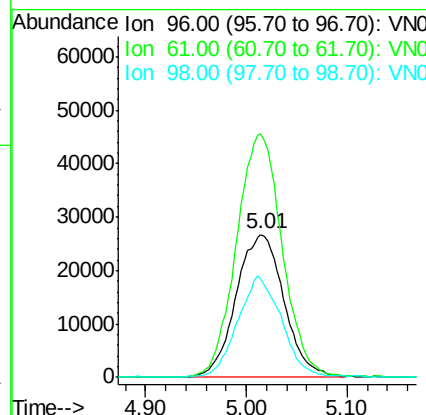
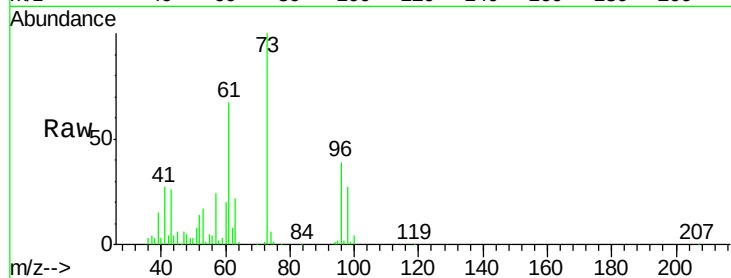
ClientSampleId :

ICVVN082319

Tot Ion:	96	Resp:	88003
Ion	Ratio	Lower	Upper
96	100		
61	168.8	127.6	191.4
98	68.7	51.5	77.3

Manual Integrations
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#20

Diisopropyl ether

Concen: 20.446 ug/l

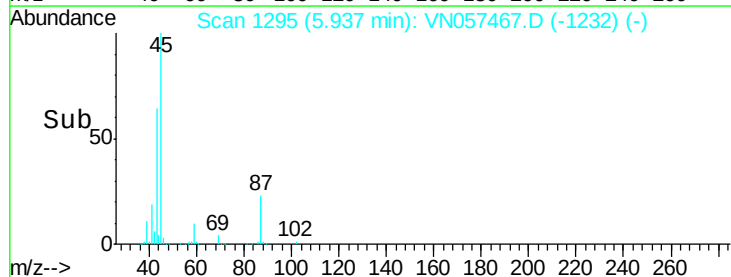
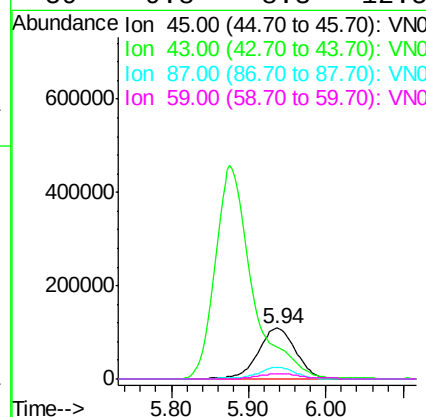
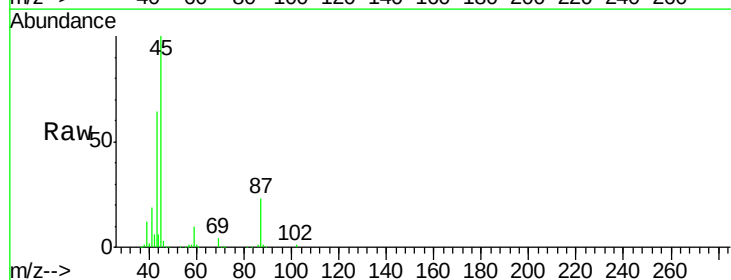
RT: 5.94 min Scan# 1295

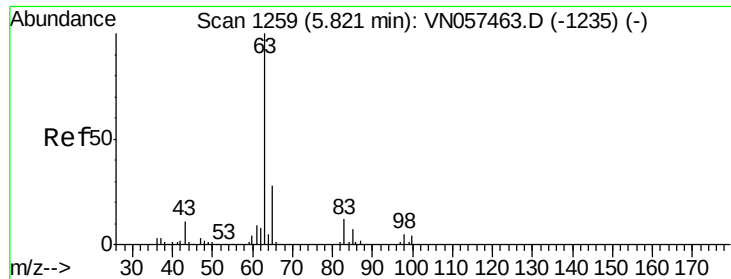
Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	45	Resp:	369595
Ion	Ratio	Lower	Upper
45	100		
43	61.6	49.9	74.9
87	22.6	19.1	28.7
59	9.8	8.3	12.5





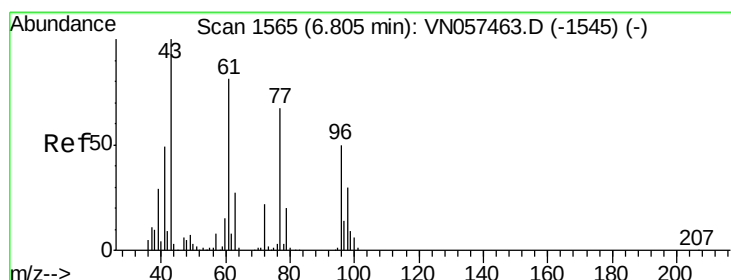
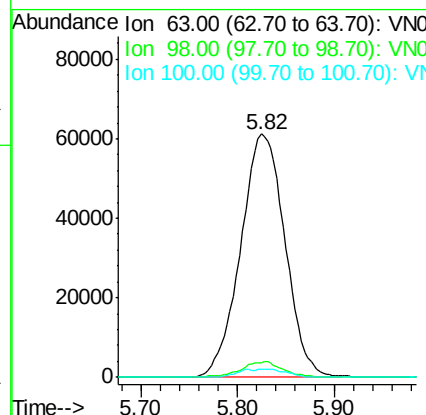
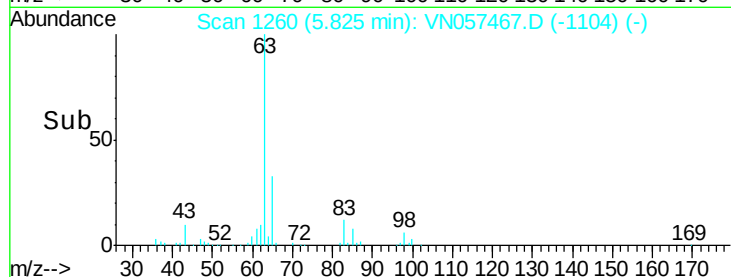
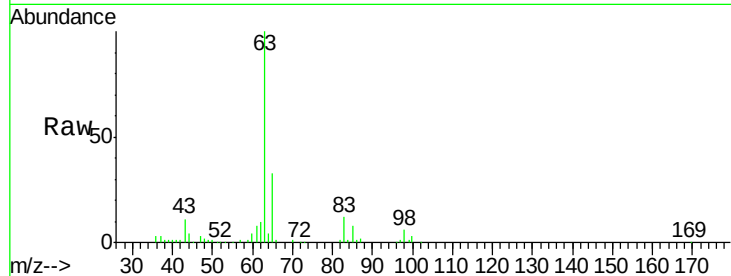
#21
 1,1-Dichloroethane
 Concen: 20.734 ug/l
 RT: 5.82 min Scan# 1260
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
63	100	194754		
98	5.9	2.4	7.1	
100	3.1	2.1	6.3	

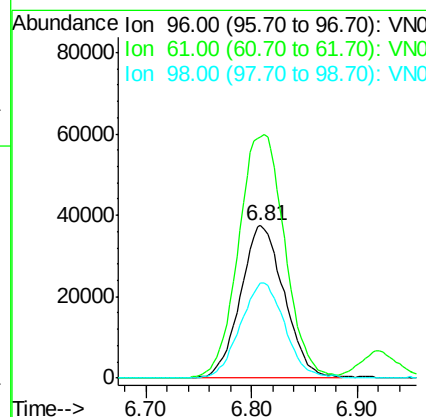
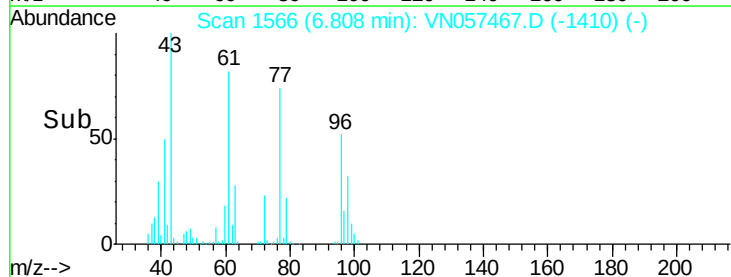
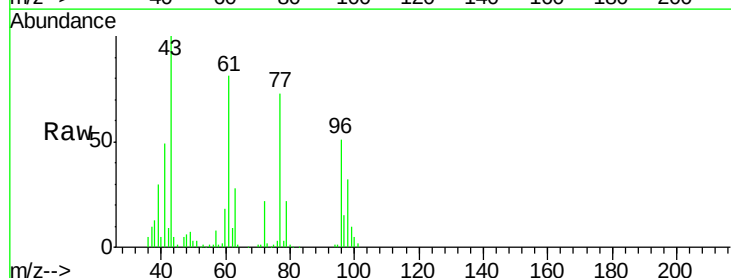
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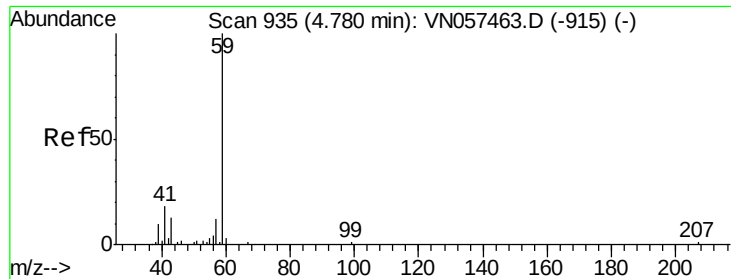
MMDadoda
 8/26/2019 1:12:10 PM



#22
 cis-1,2-Dichloroethene
 Concen: 20.698 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	107905		
61	168.8	134.4	201.6	
98	63.2	51.4	77.0	





#23

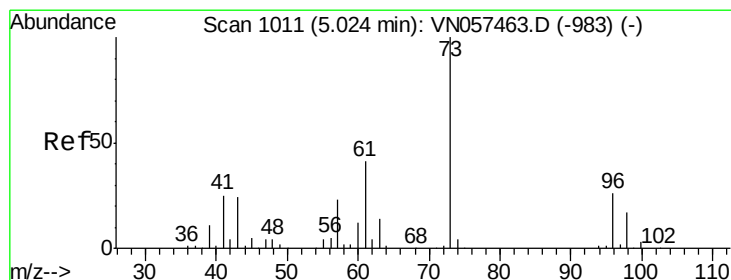
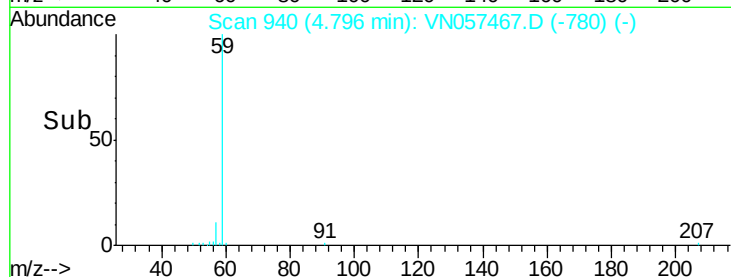
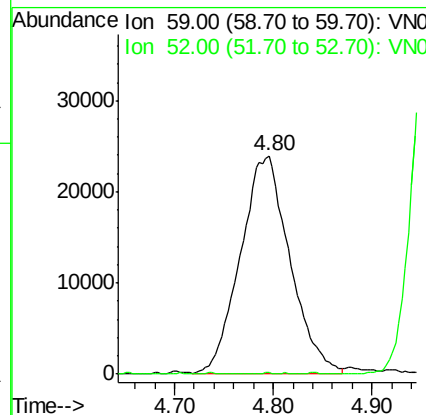
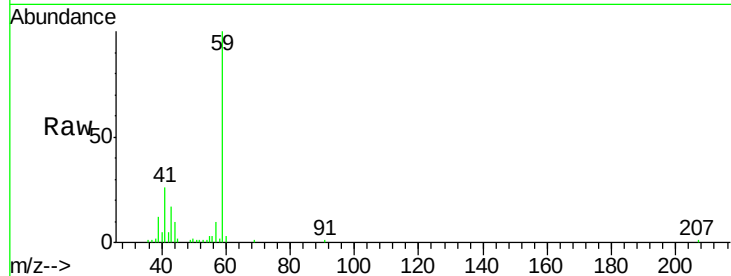
tert-Butyl Alcohol
 Concen: 105.958 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.02 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.1	0.1

Manual Integrations
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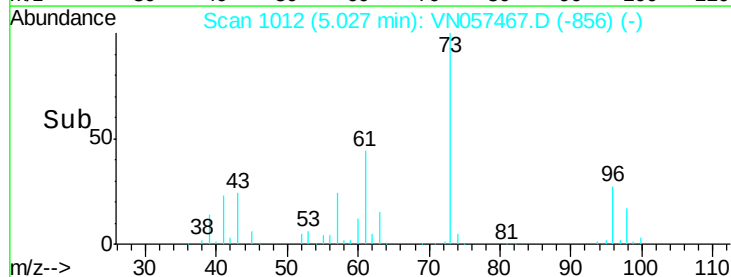
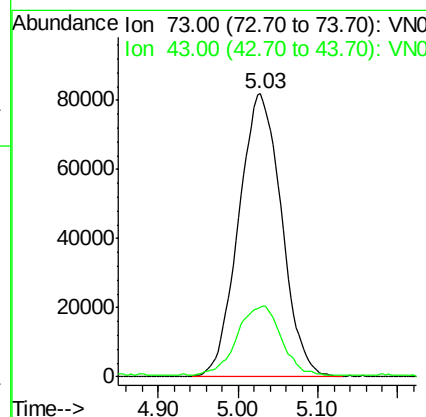
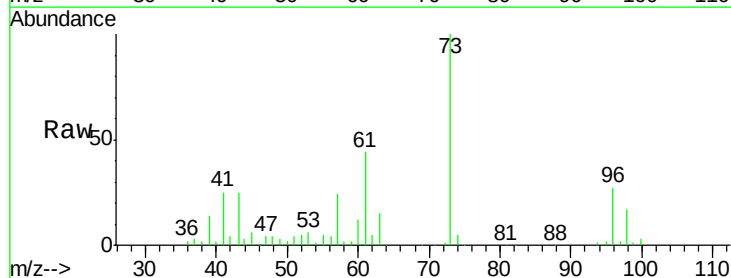
MMDadoda
 8/26/2019 1:12:10 PM

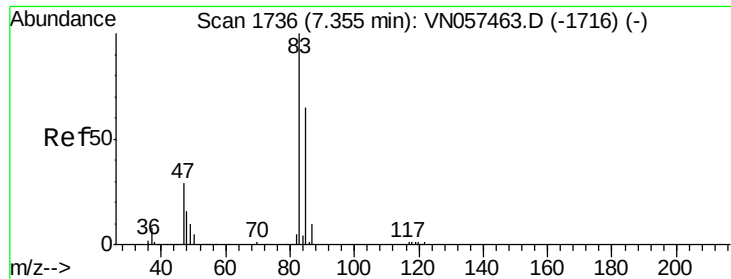


#24

Methyl tert-Butyl Ether
 Concen: 20.844 ug/l
 RT: 5.03 min Scan# 1012
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
73	100		
43	25.4	20.1	30.1





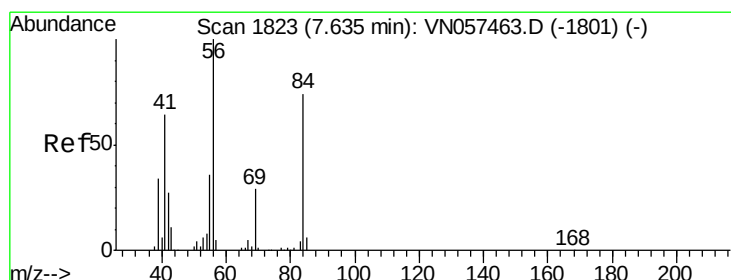
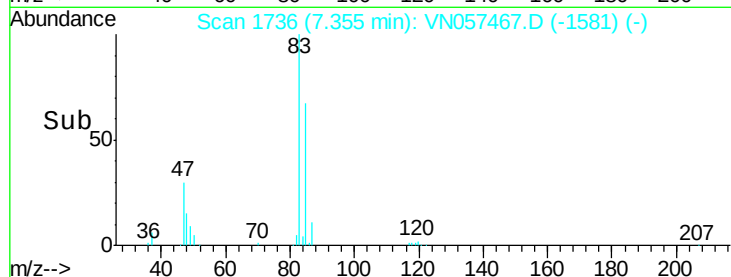
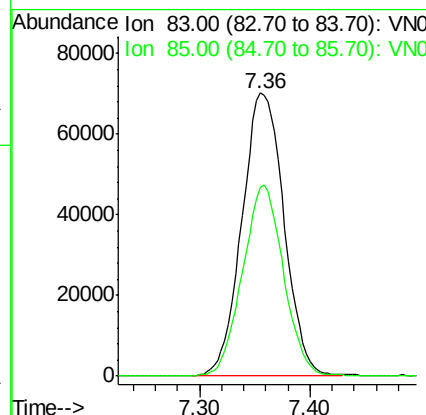
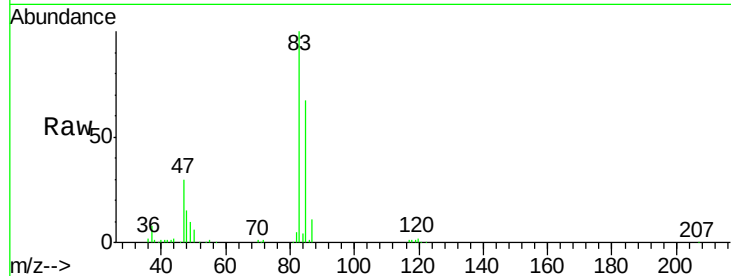
#25
Chloroform
Concen: 19.936 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	83	Resp	185920
Ion Ratio	100	Lower	Upper
83	100		
85	66.6	52.0	78.0

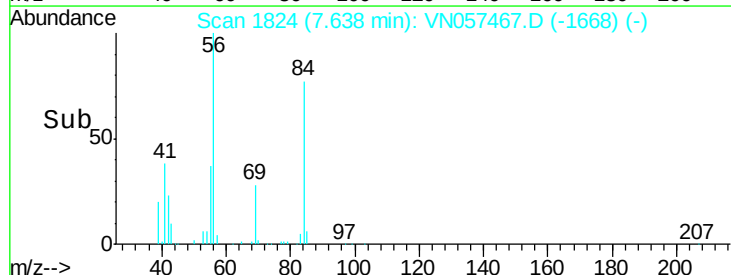
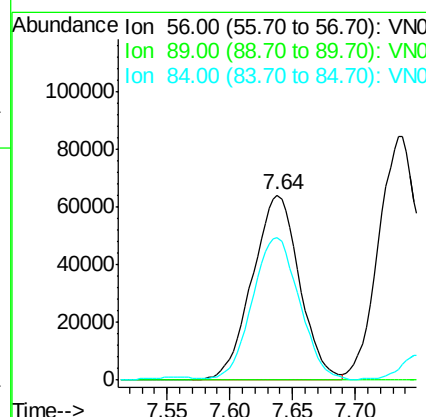
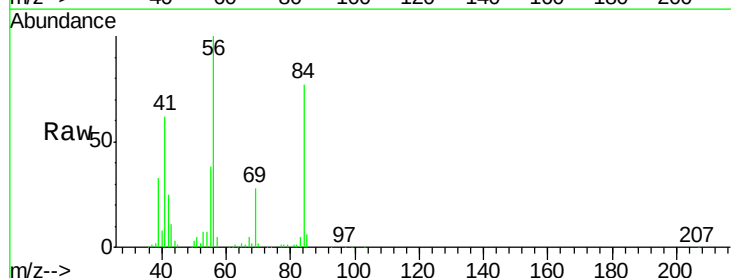
Manual Integrations
APPROVED

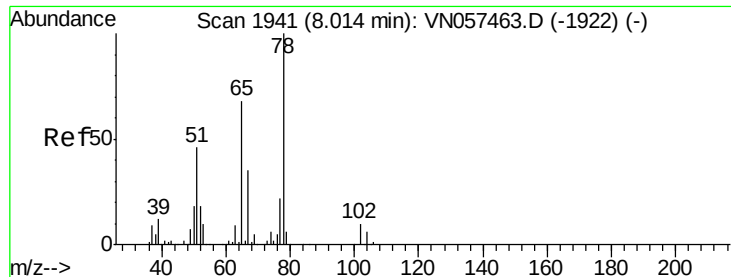
MMDadoda
8/26/2019 1:12:10 PM



#26
Cyclohexane
Concen: 20.104 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	56	Resp	168154
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0#
84	77.1	61.1	91.7





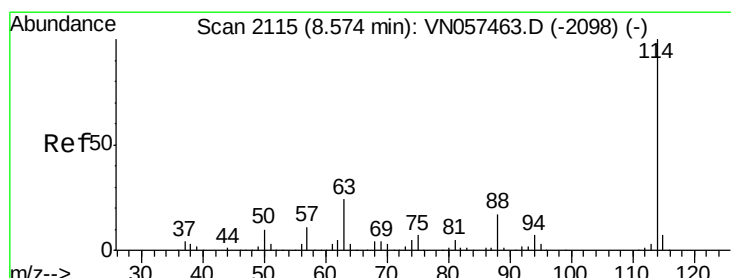
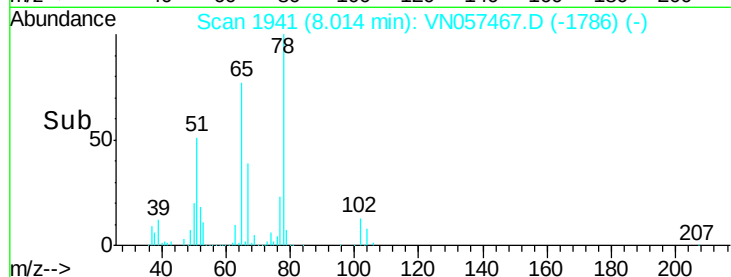
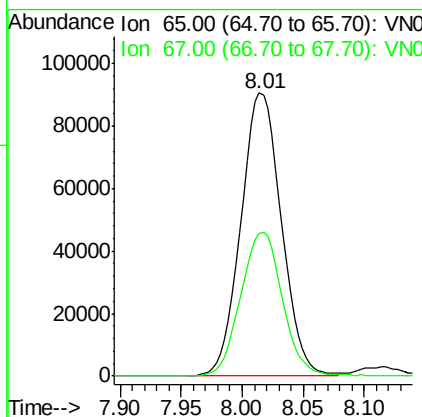
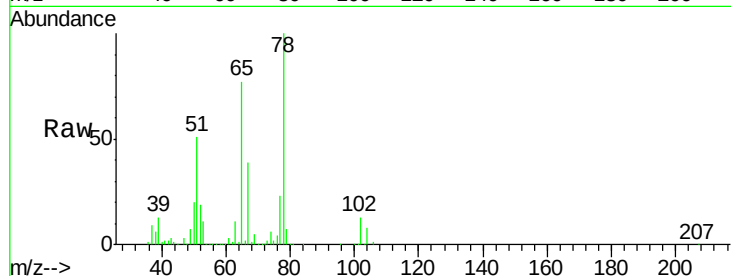
#27
 1,2-Dichloroethane-d4
 Concen: 30.011 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
65	100	208038		
67	52.1		40.2	60.4

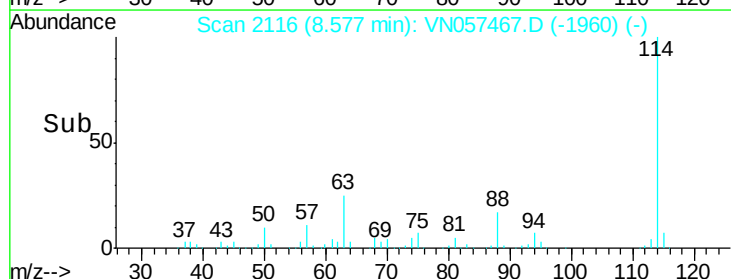
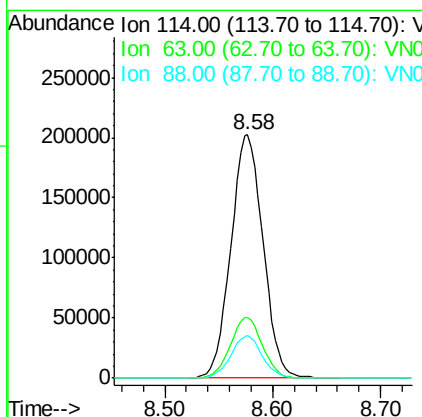
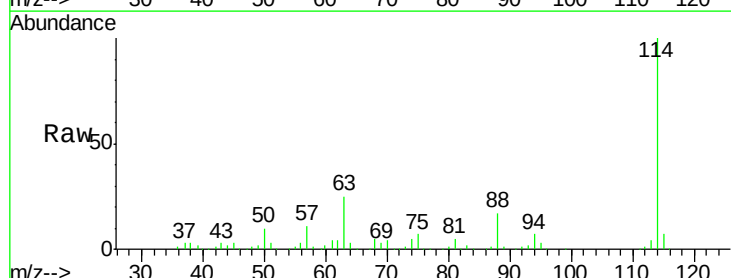
Manual Integrations
 APPROVED

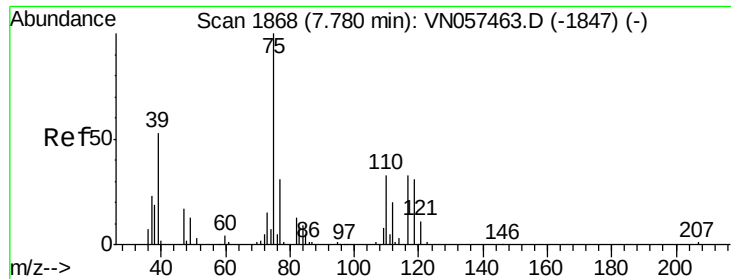
MMDadoda
 8/26/2019 1:12:10 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	420630		
63	24.9		19.6	29.4
88	17.1		13.1	19.7





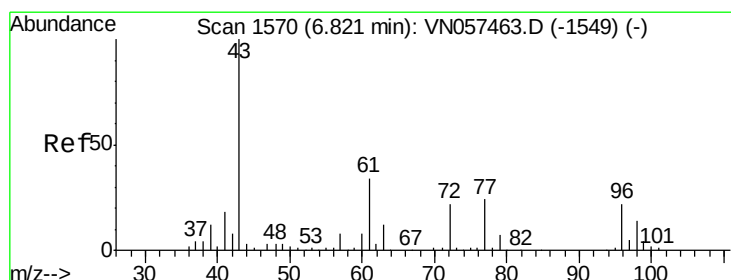
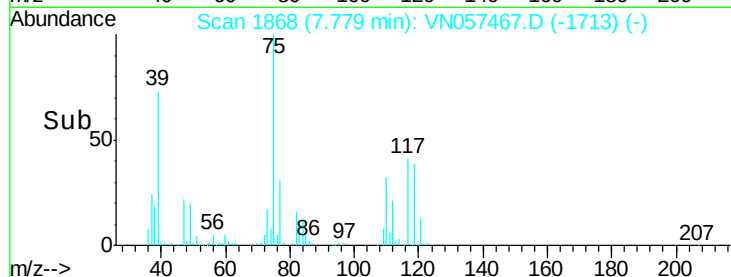
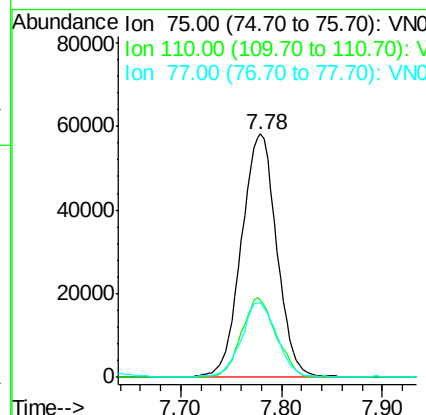
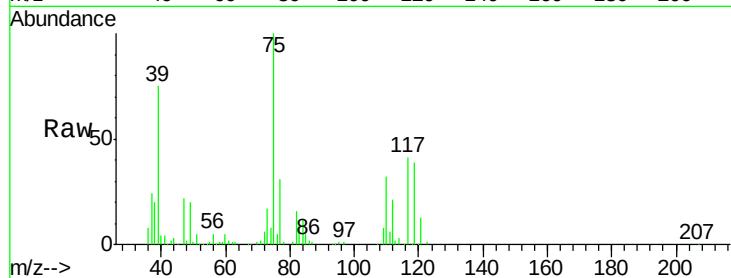
#29
 1,1-Dichloropropene
 Concen: 19.728 ug/l
 RT: 7.78 min Scan# 1868
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	32.0	0.0	64.0
77	30.9	0.0	63.4

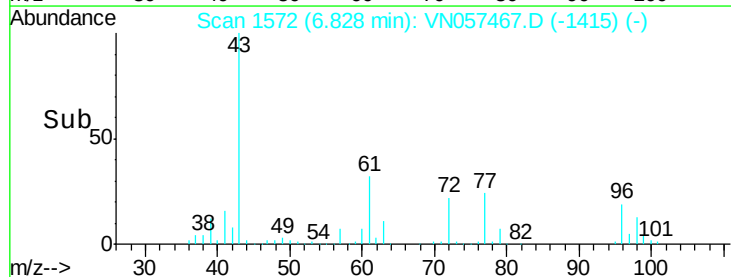
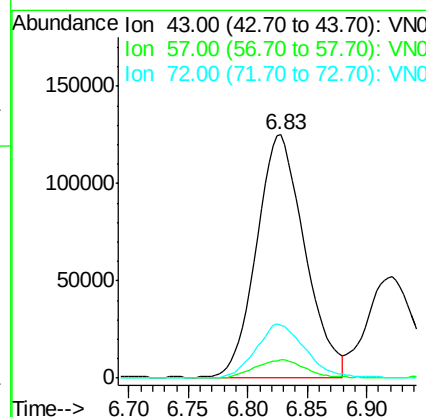
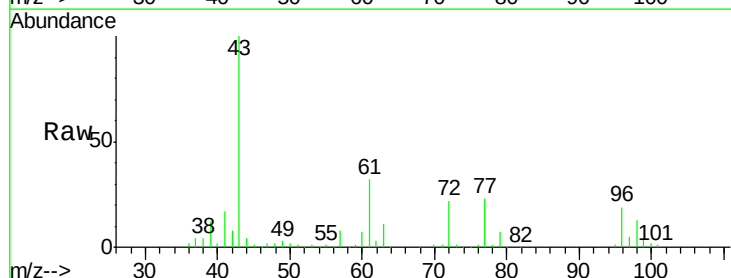
Manual Integrations
 APPROVED

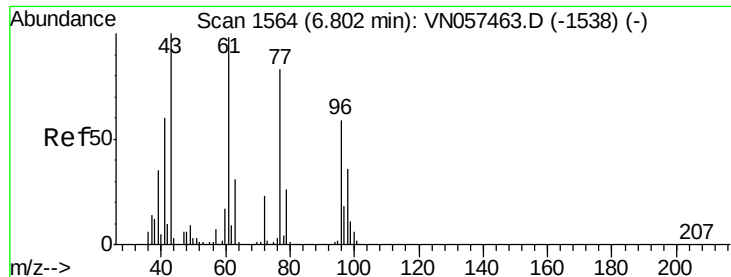
MMDadoda
 8/26/2019 1:12:10 PM



#30
 2-Butanone
 Concen: 101.611 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.5	5.7	8.5
72	22.9	18.2	27.2





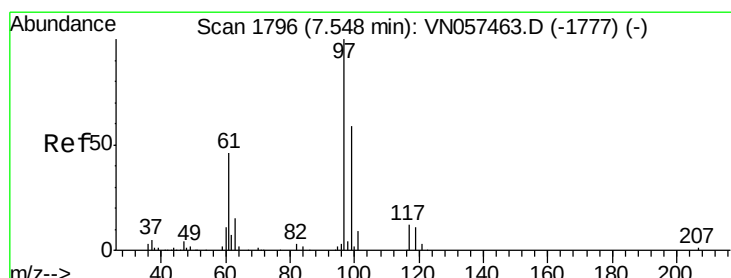
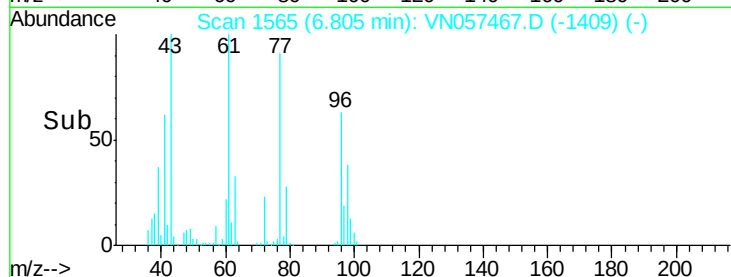
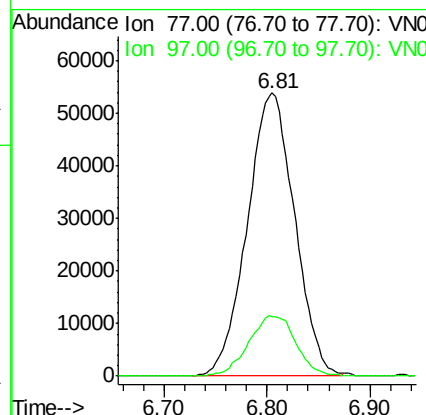
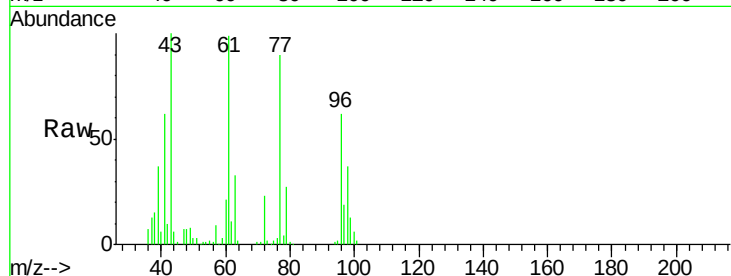
#31
 2,2-Dichloropropane
 Concen: 21.051 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ion	Ratio	Resp	Lower	Upper
77	77	100			
97	97	21.3	17.0	25.4	

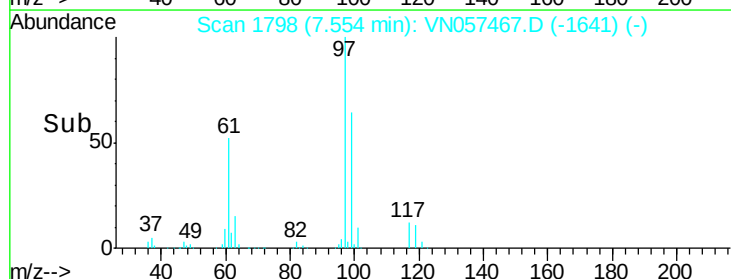
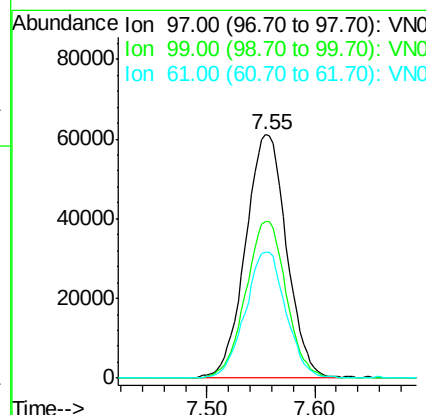
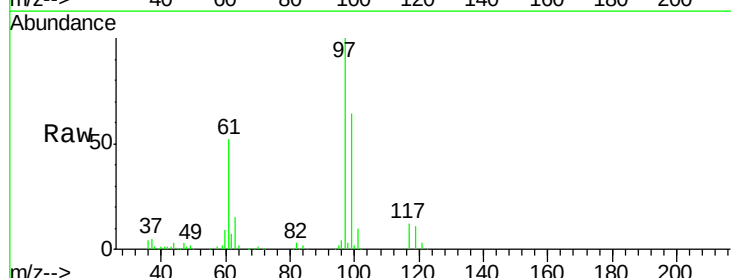
Manual Integrations
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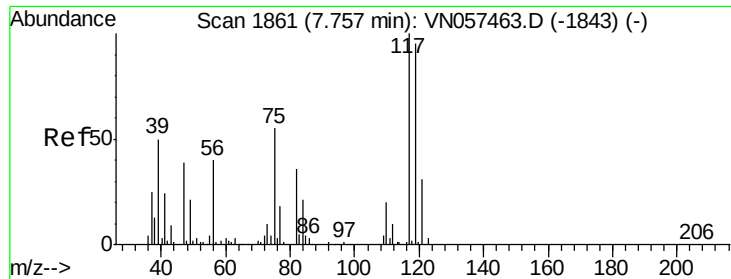
MMDadoda
 8/26/2019 1:12:10 PM



#32
 1,1,1-Trichloroethane
 Concen: 19.808 ug/l
 RT: 7.55 min Scan# 1798
 Delta R.T. 0.01 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	97	100			
99	99	63.3	49.6	74.4	
61	61	51.2	40.9	61.3	





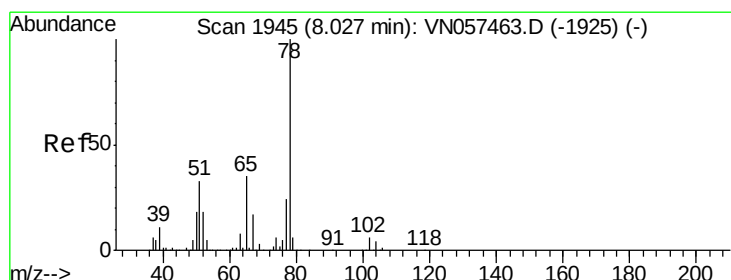
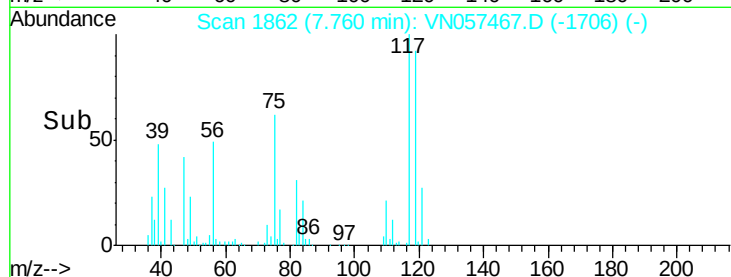
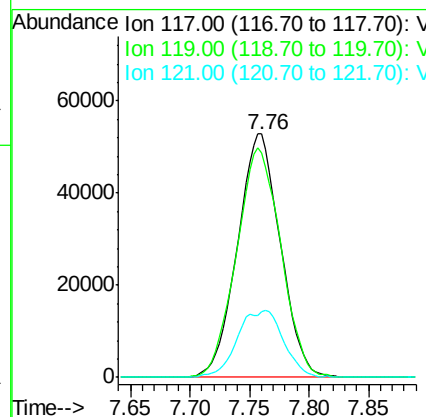
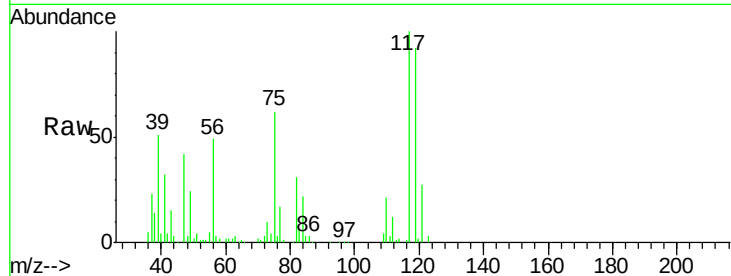
#33
Carbon Tetrachloride
Concen: 19.401 ug/l
RT: 7.76 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
117	100	131658		
119	92.1	76.8	115.2	
121	26.7	24.8	37.2	

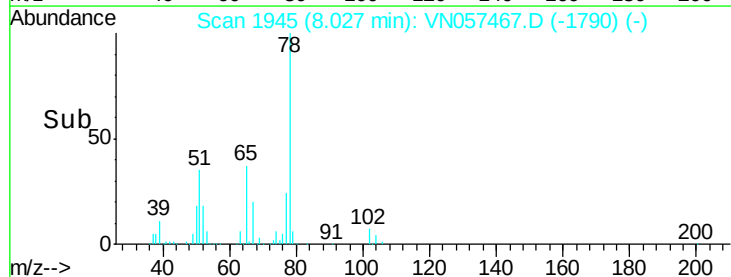
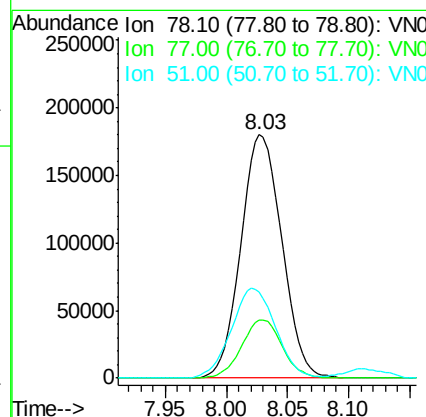
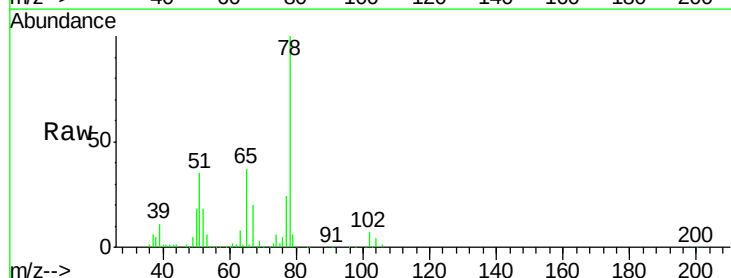
Manual Integrations
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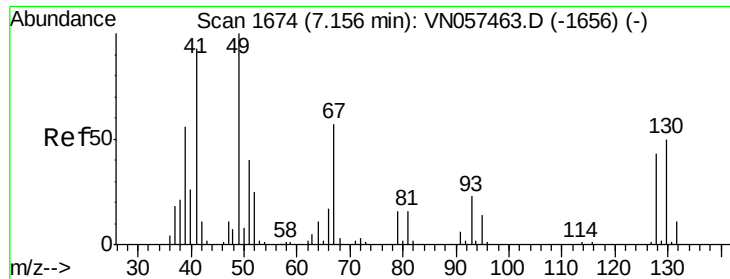
MMDadoda
8/26/2019 1:12:10 PM



#34
Benzene
Concen: 19.907 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	418496		
77	23.8	19.5	29.3	
51	34.9	26.0	39.0	





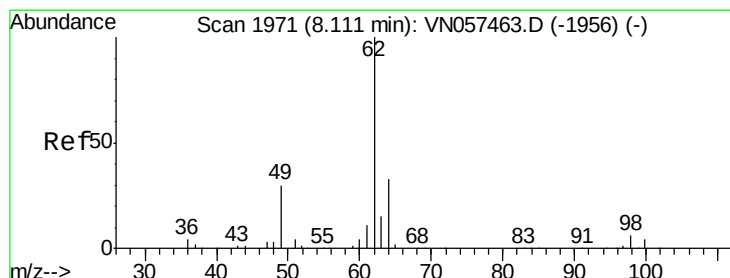
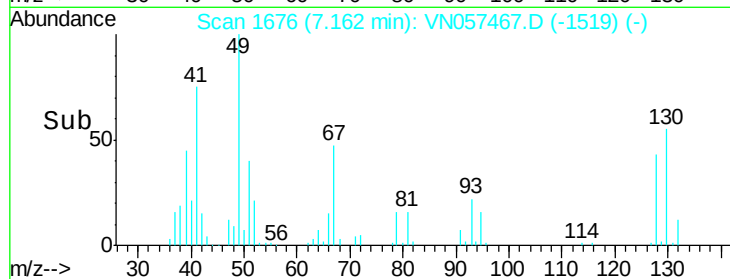
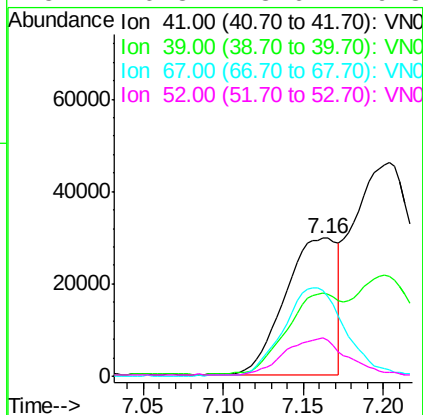
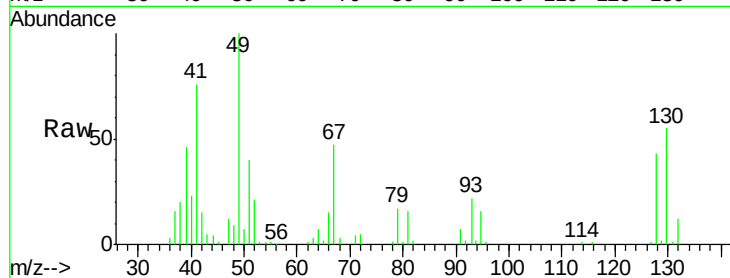
#35
Methacrylonitrile
Concen: 19.746 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	41	Resp	68686
Ion Ratio	Lower	Upper	
41	100		
39	58.7	30.5	91.5
67	62.2	30.9	92.5
52	26.8	13.6	40.8

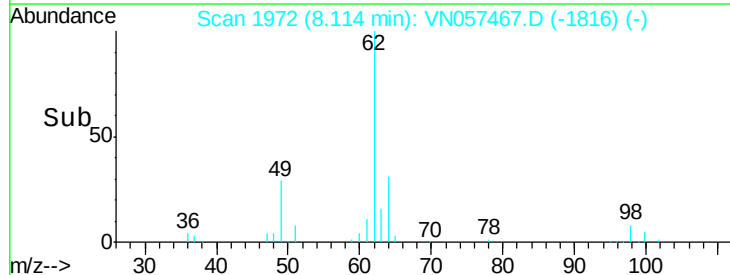
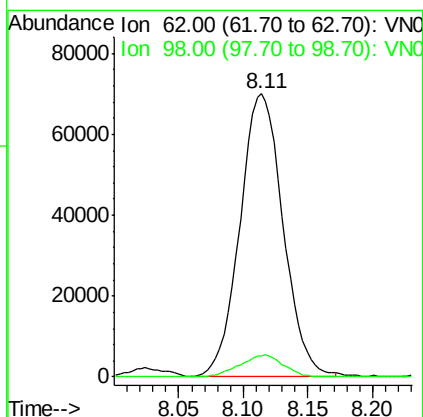
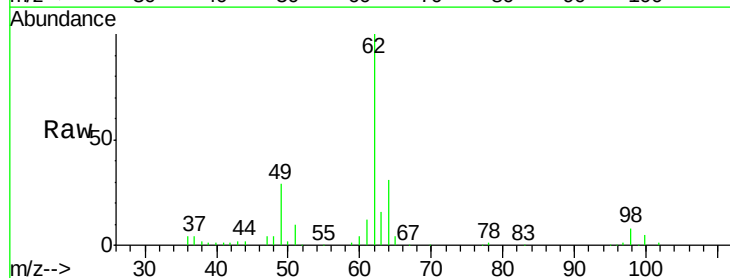
Manual Integrations
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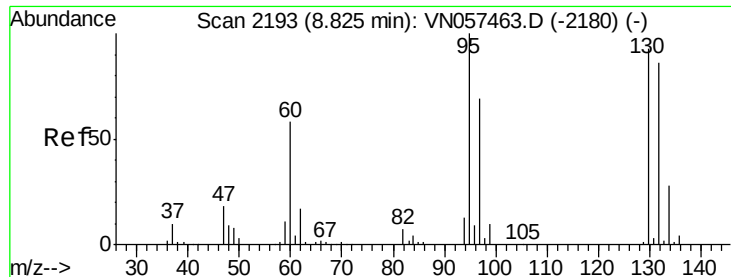
MMDadoda
8/26/2019 1:12:10 PM



#36
1,2-Dichloroethane
Concen: 19.732 ug/l m
RT: 8.11 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	62	Resp	162610
Ion Ratio	Lower	Upper	
62	100		
98	0.1	2.8	4.2#





#37

Trichloroethene

Concen: 19.656 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion:130 Resp: 94273

Ion Ratio Lower Upper

130 100

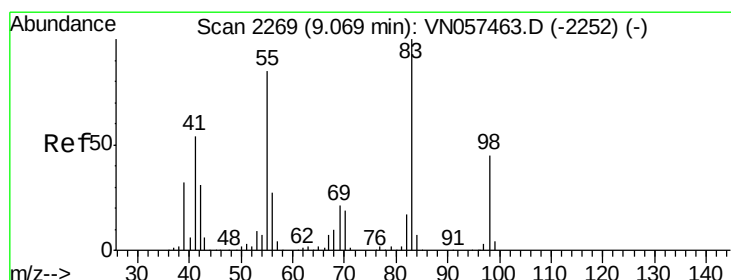
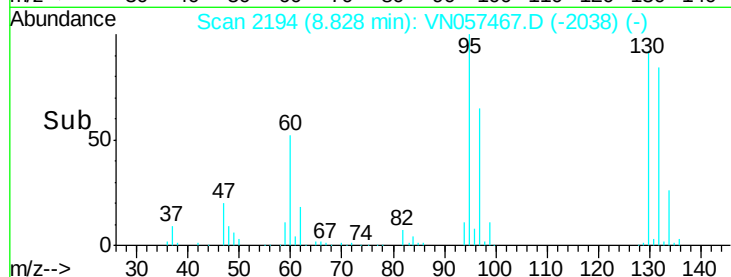
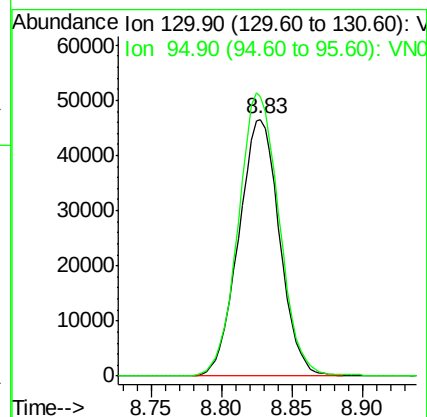
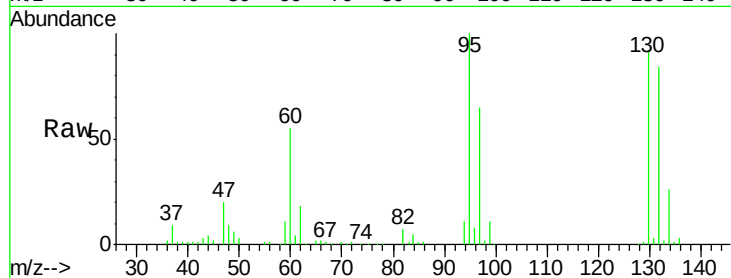
95 108.4 86.4 129.6

Manual Integrations

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MMDadoda

8/26/2019 1:12:10 PM



#38

Methylcyclohexane

Concen: 20.187 ug/l

RT: 9.07 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

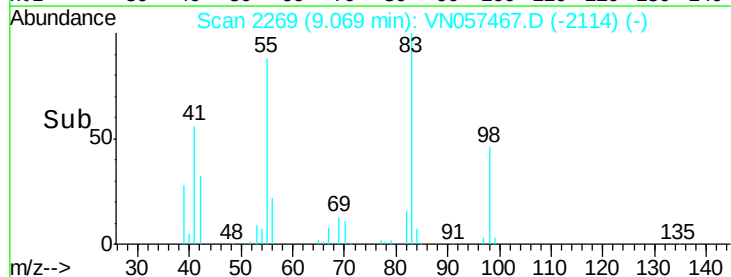
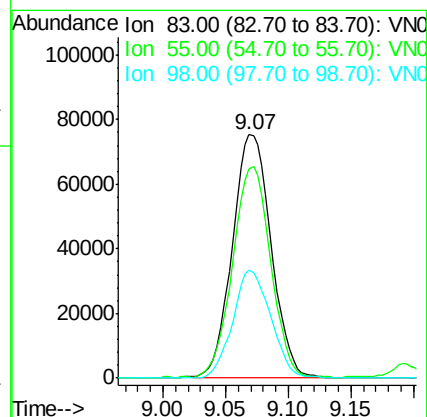
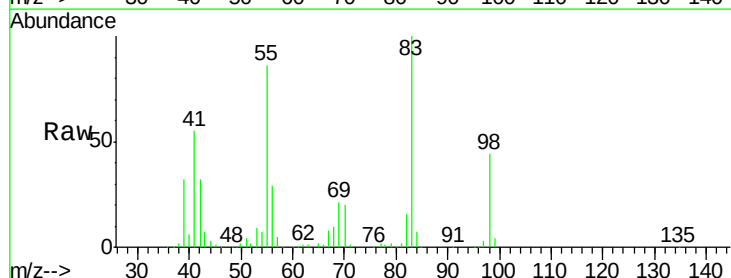
Tgt Ion: 83 Resp: 161974

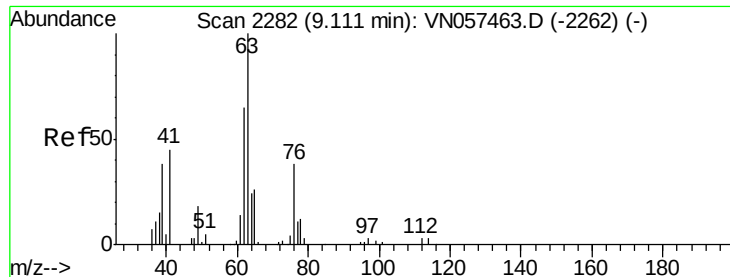
Ion Ratio Lower Upper

83 100

55 84.8 43.3 129.8

98 43.3 22.8 68.4





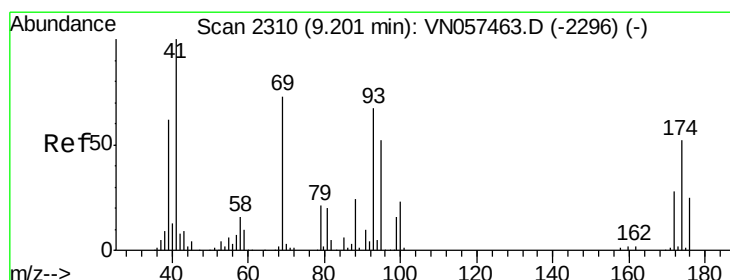
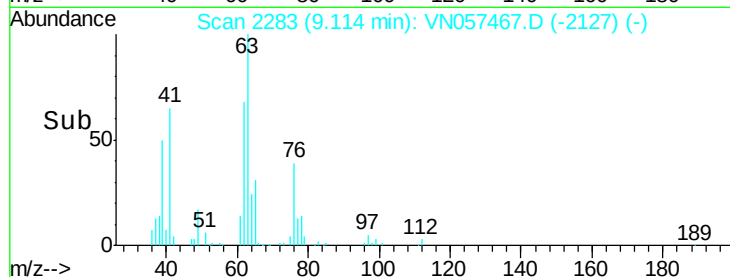
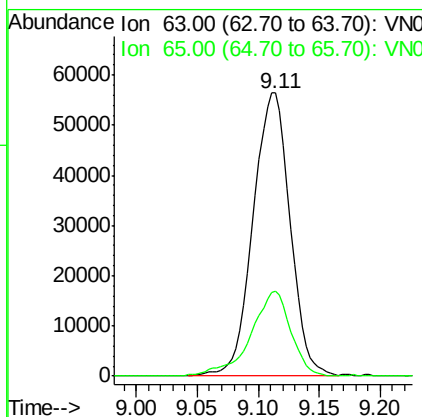
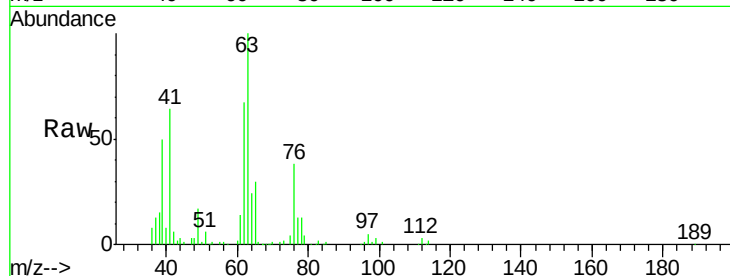
#39
 1,2-Dichloropropane
 Concen: 19.846 ug/l
 RT: 9.11 min Scan# 2283
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion: 63 Resp: 118628
 Ion Ratio Lower Upper
 63 100
 65 29.7 21.6 32.4

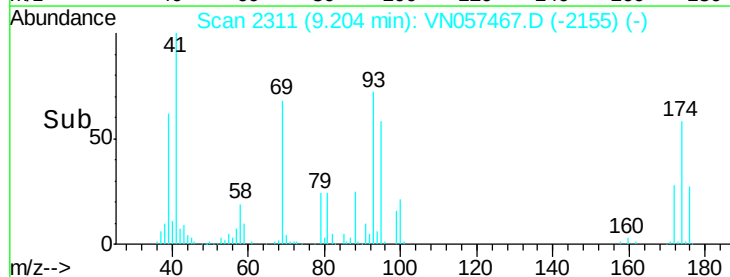
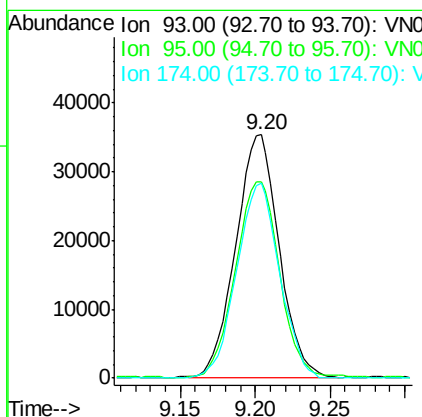
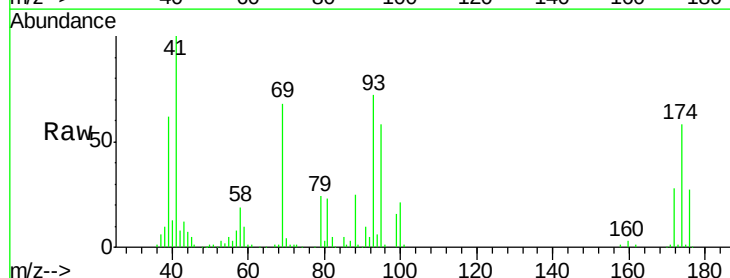
Manual Integrations
 APPROVED

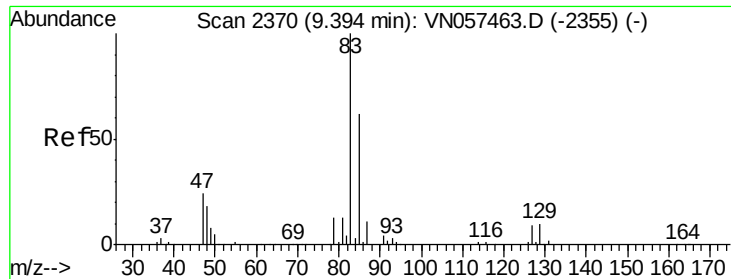
MMDadoda
 8/26/2019 1:12:10 PM



#40
 Dibromomethane
 Concen: 19.616 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion: 93 Resp: 71658
 Ion Ratio Lower Upper
 93 100
 95 81.9 0.0 160.8
 174 78.9 0.0 157.2





#41

Bromodichloromethane

Concen: 19.110 ug/l

RT: 9.40 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

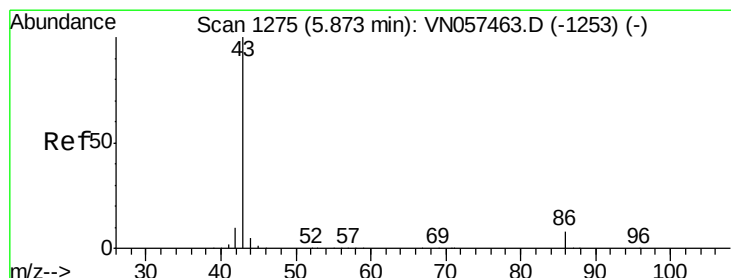
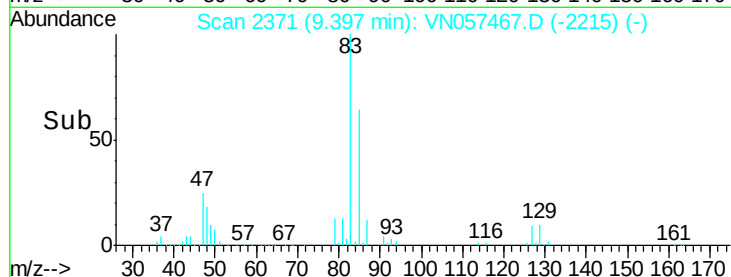
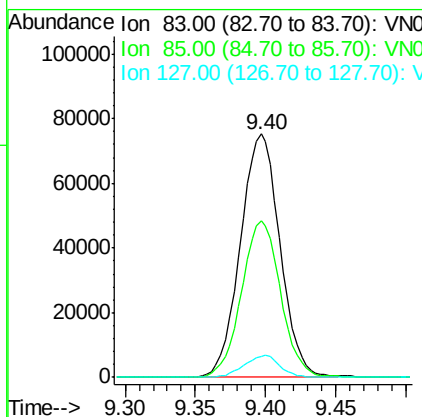
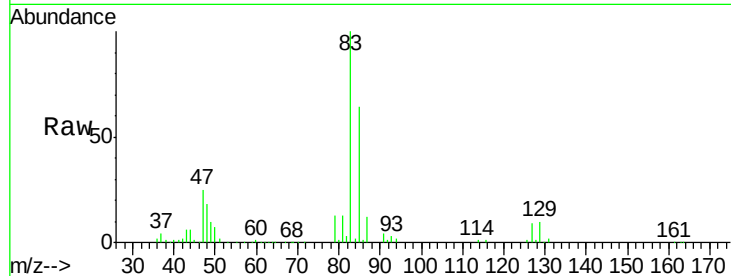
ClientSampleId :

ICVVN082319

Tot Ion:	83	Resp:	148059
Ion Ratio	Lower	Upper	
83	100		
85	64.1	49.8	74.8
127	8.5	7.6	11.4

Manual Integrations
APPROVED

MMDadoda
8/26/2019 1:12:10 PM



#42

Vinyl Acetate

Concen: 98.930 ug/l

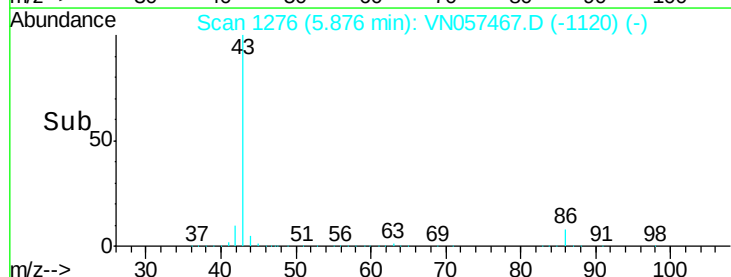
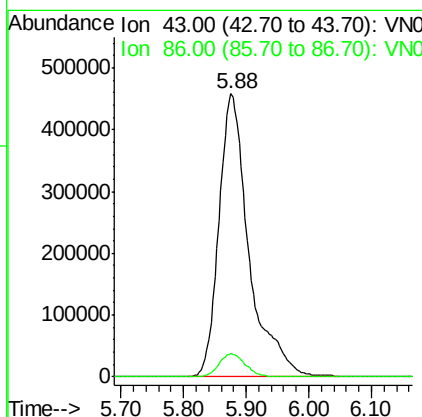
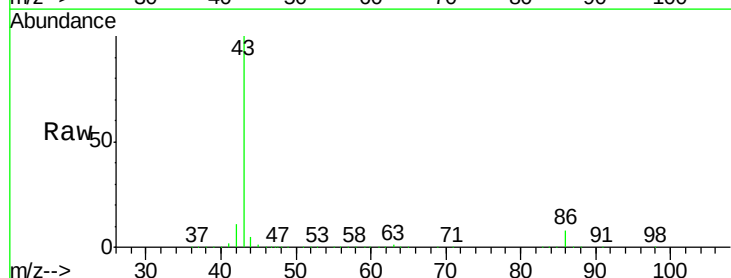
RT: 5.88 min Scan# 1276

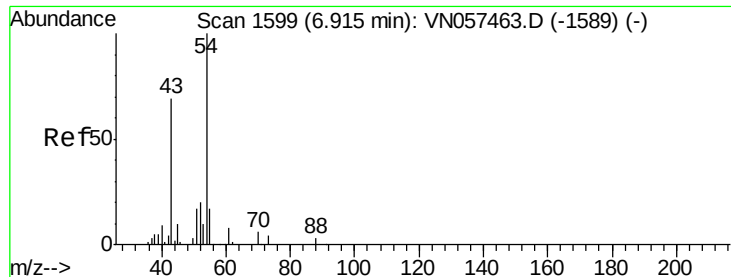
Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	43	Resp:	1521627
Ion Ratio	Lower	Upper	
43	100		
86	7.2	5.7	8.5





#43

Ethyl Acetate

Concen: 20.774 ug/l

RT: 6.92 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 43 Resp: 138978

Ion Ratio Lower Upper

43 100

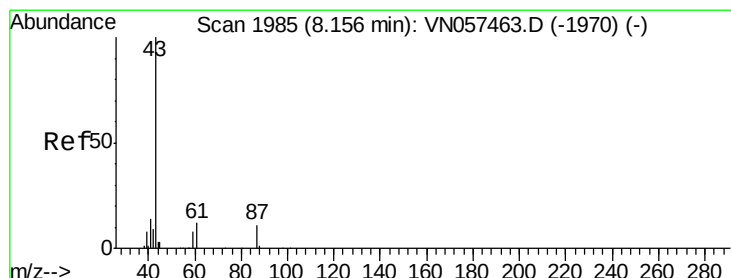
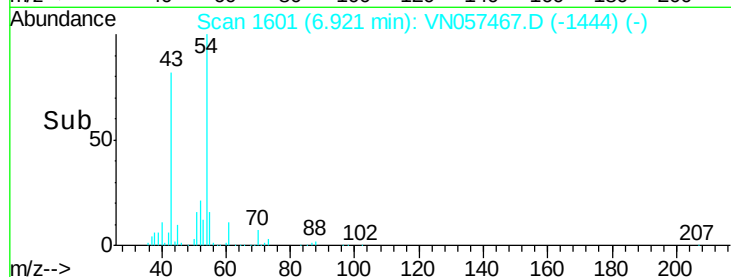
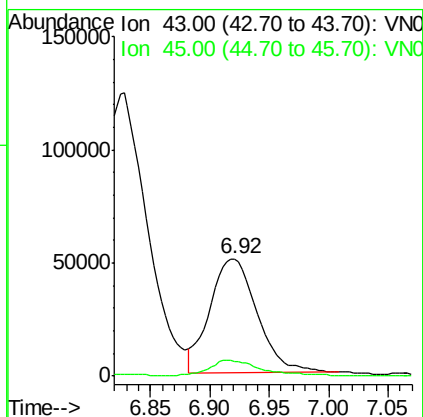
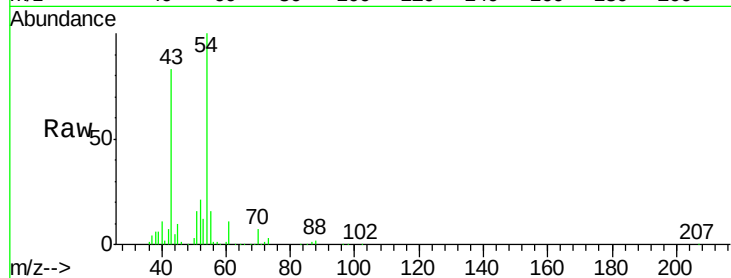
45 13.8 11.0 16.4

Manual Integrations

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#44

Isopropyl Acetate

Concen: 19.966 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN057467.D

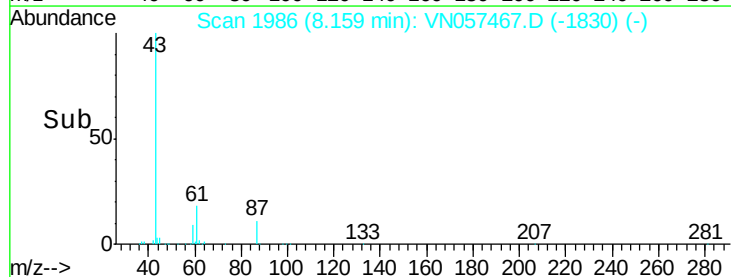
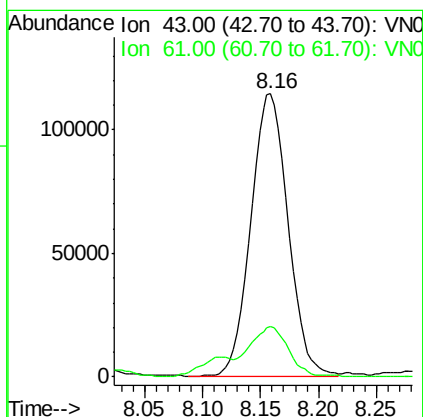
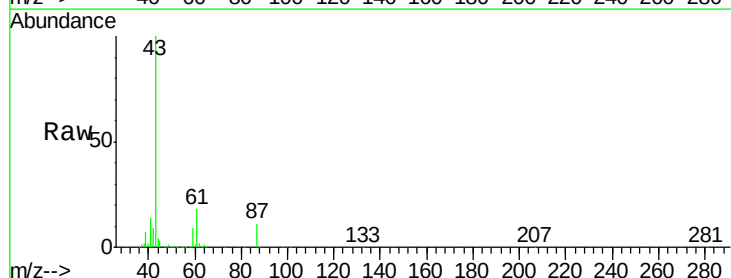
Acq: 23 Aug 2019 11:53

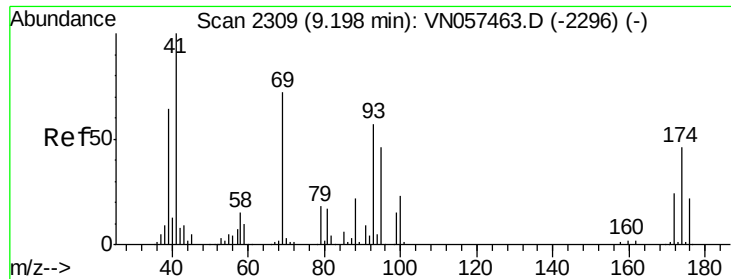
Tgt Ion: 43 Resp: 254984

Ion Ratio Lower Upper

43 100

61 18.1 0.1 0.1#





#45

1,4-Dioxane

Concen: 410.037 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

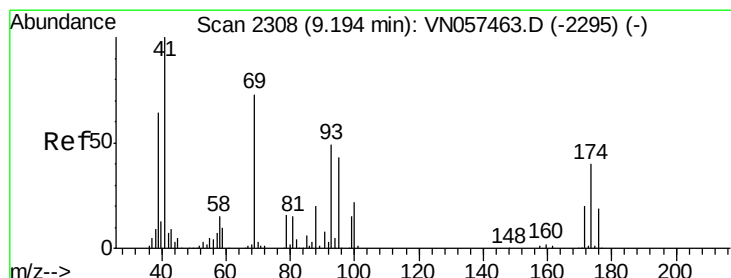
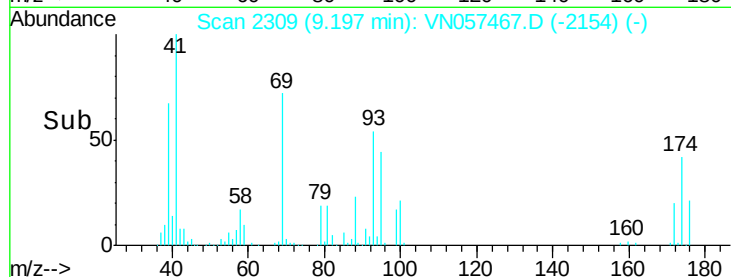
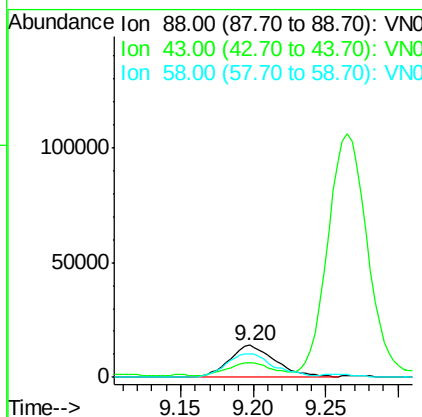
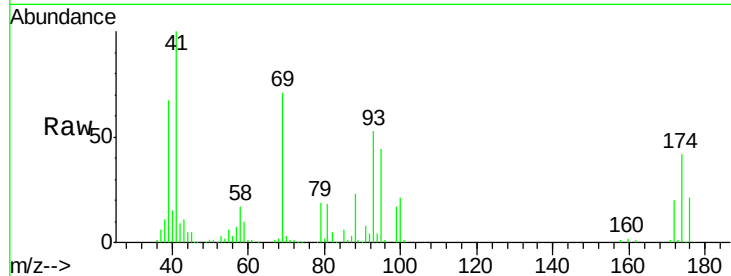
ClientSampleId :

ICVVN082319

Tot Ion:	88	Resp:	31476
Ion	Ratio	Lower	Upper
88	100		
43	38.9	29.8	44.6
58	75.0	62.2	93.2

Manual Integrations
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#46

Methyl methacrylate

Concen: 19.657 ug/l

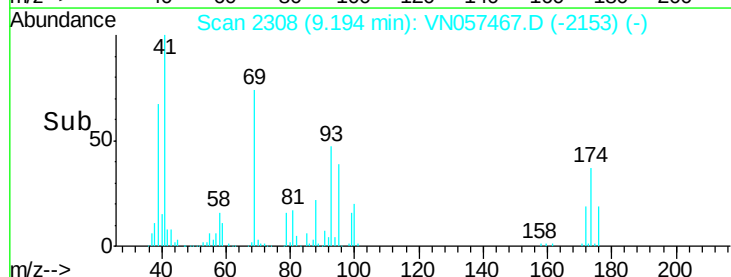
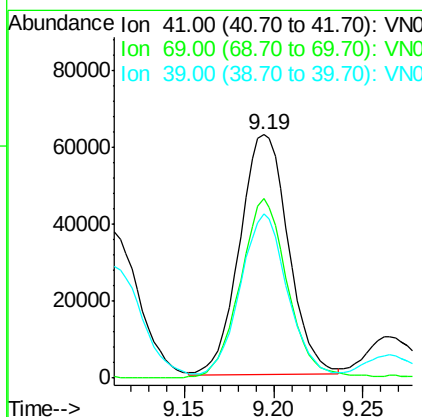
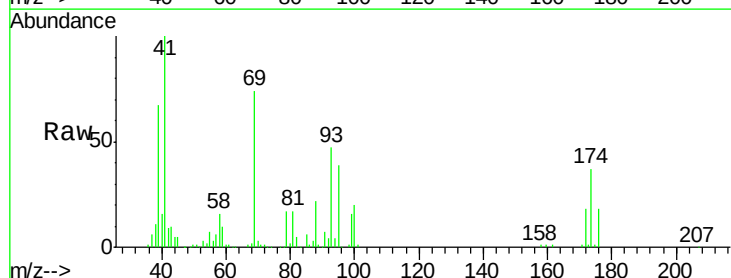
RT: 9.19 min Scan# 2308

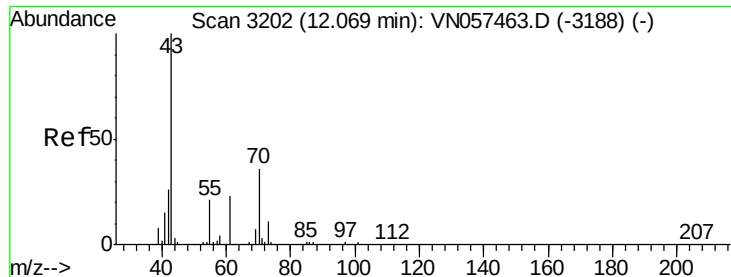
Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	41	Resp:	119222
Ion	Ratio	Lower	Upper
41	100		
69	74.8	36.5	109.5
39	66.8	32.1	96.3





#47

n-amvl Acetate

Concen: 19.082 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 43 Resp: 196137

Ion Ratio Lower Upper

43 100

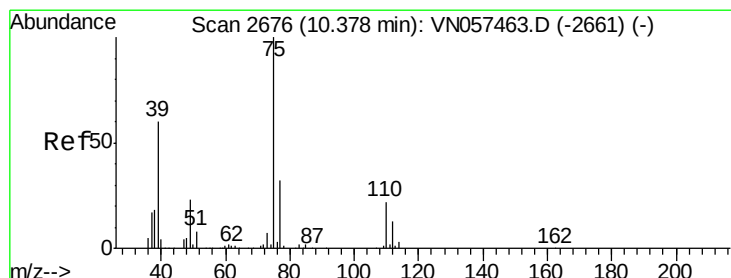
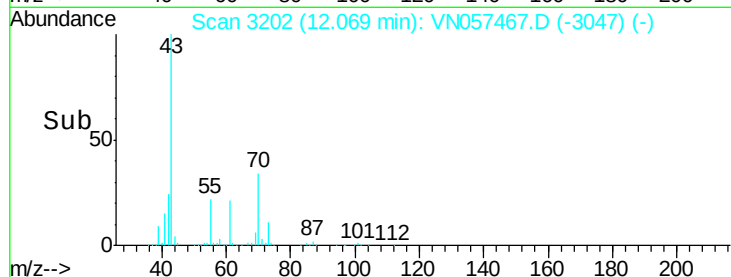
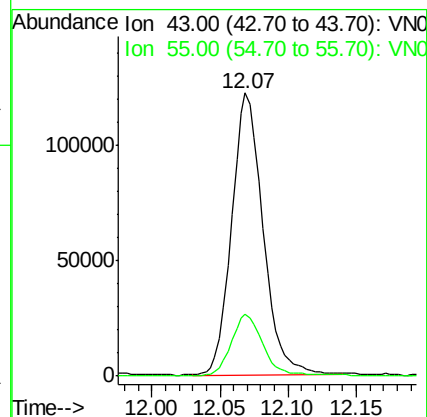
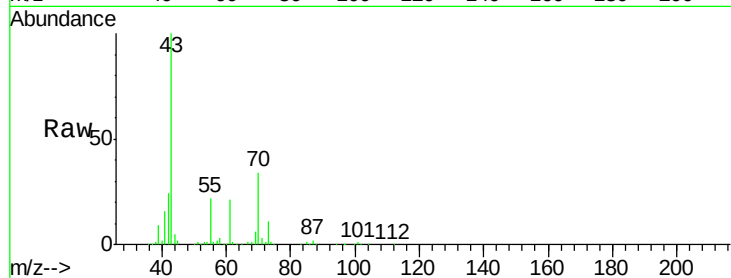
55 21.8 17.0 25.6

Manual Integrations

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MMDadoda

8/26/2019 1:12:10 PM



#48

t-1,3-Dichloropropene

Concen: 19.212 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN057467.D

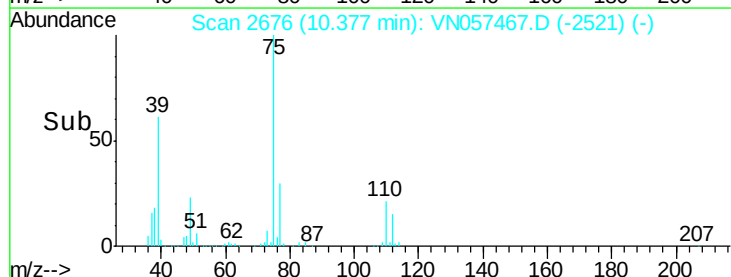
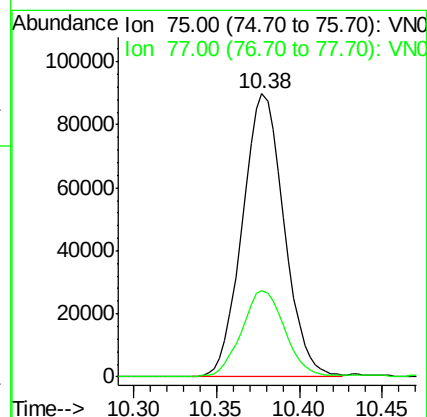
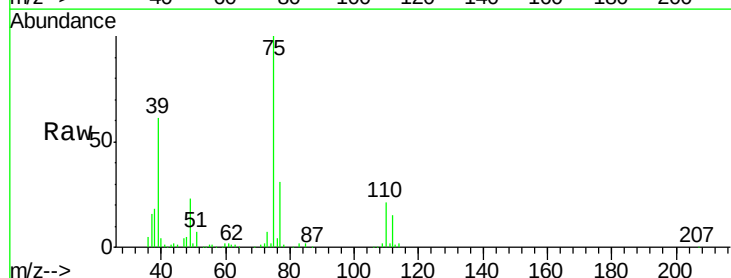
Acq: 23 Aug 2019 11:53

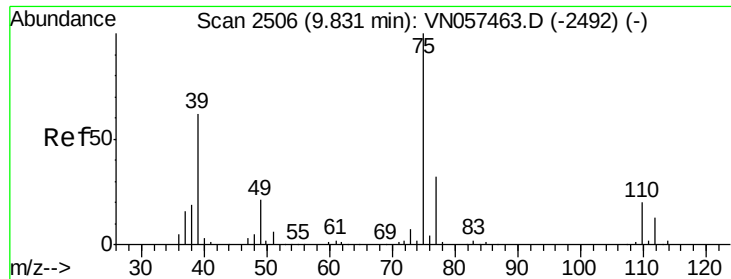
Tgt Ion: 75 Resp: 157245

Ion Ratio Lower Upper

75 100

77 30.4 25.7 38.5





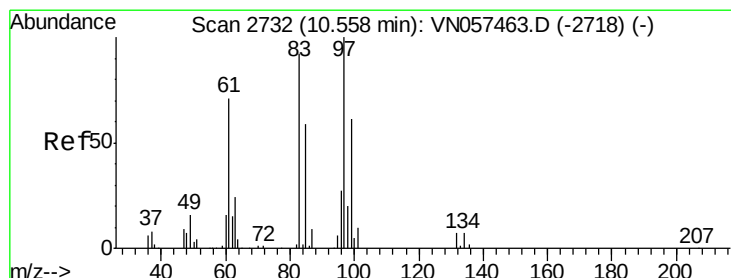
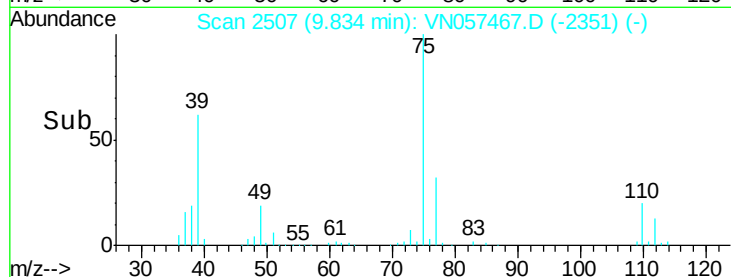
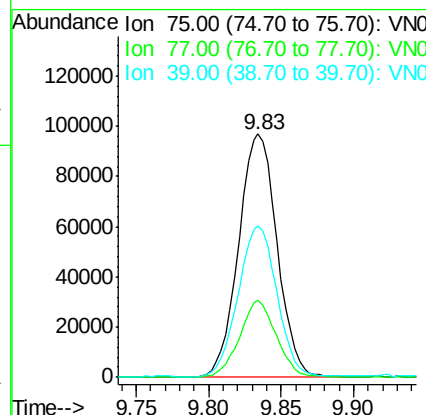
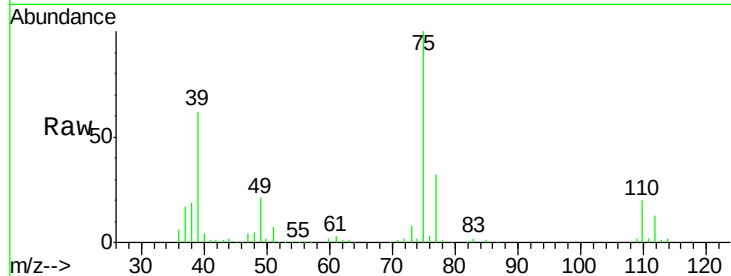
#49
 cis-1,3-Dichloropropene
 Concen: 19.894 ug/l
 RT: 9.83 min Scan# 2507
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	62.0	49.8	74.6

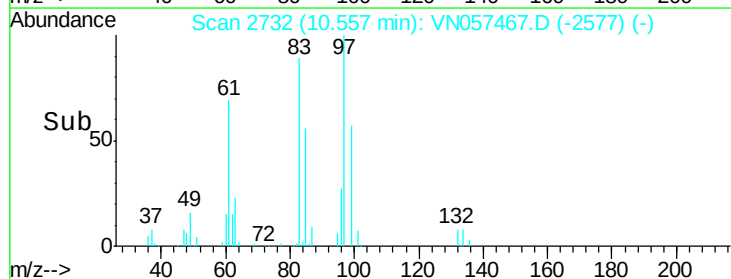
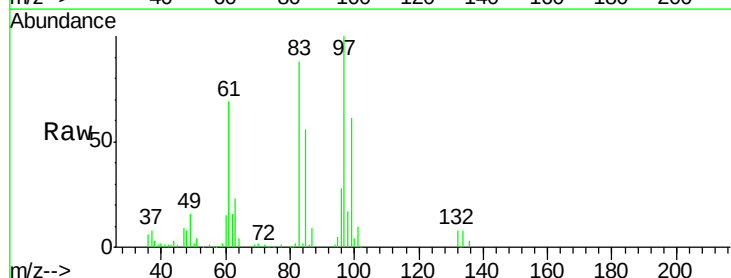
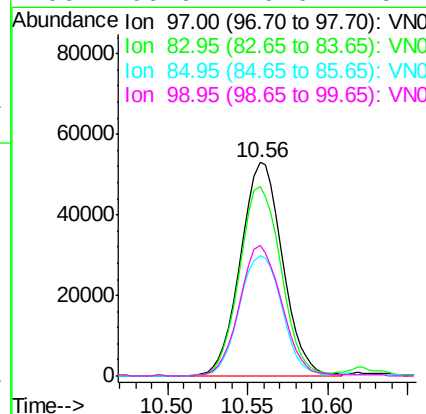
Manual Integrations
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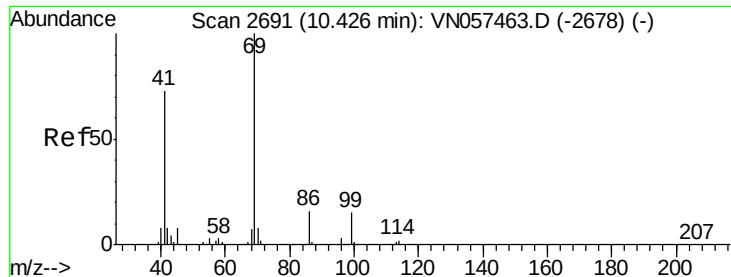
MMDadoda
 8/26/2019 1:12:10 PM



#50
 1,1,2-Trichloroethane
 Concen: 19.883 ug/l
 RT: 10.56 min Scan# 2732
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.1	73.2	109.8
85	56.2	47.1	70.7
99	60.9	49.0	73.4





#51

Ethyl methacrylate

Concen: 19.607 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

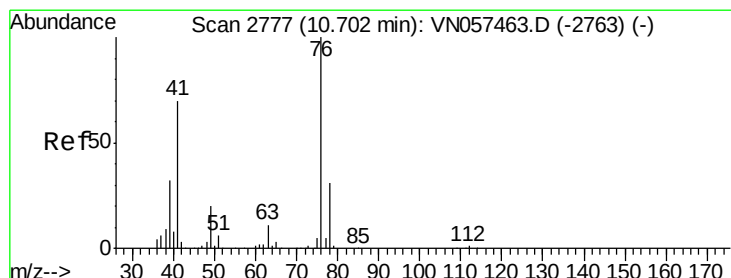
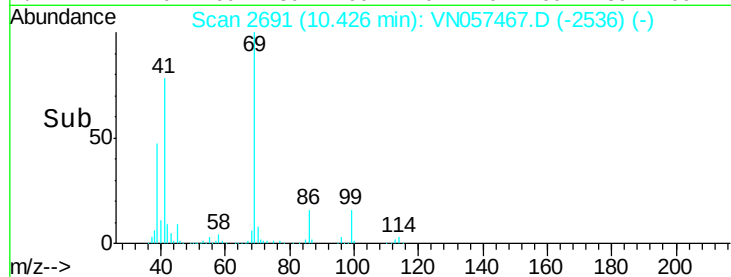
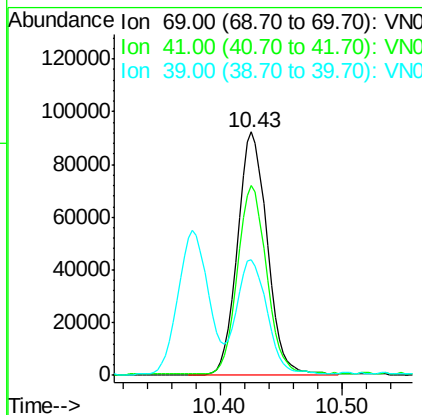
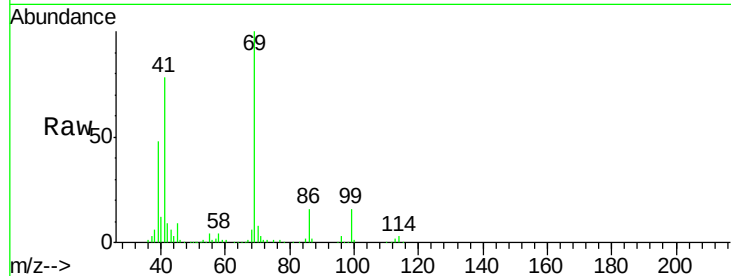
ClientSampleId :

ICVVN082319

Tot Ion:	69	Resp:	156129
Ion	Ratio	Lower	Upper
69	100		
41	77.2	37.0	111.1
39	46.7	24.4	73.4

Manual Integrations
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8/26/2019 1:12:10 PM



#52

1,3-Dichloropropane

Concen: 19.868 ug/l

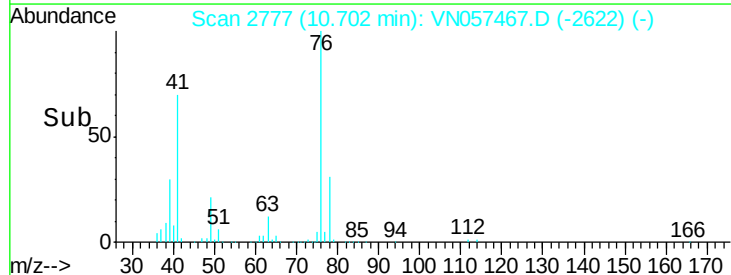
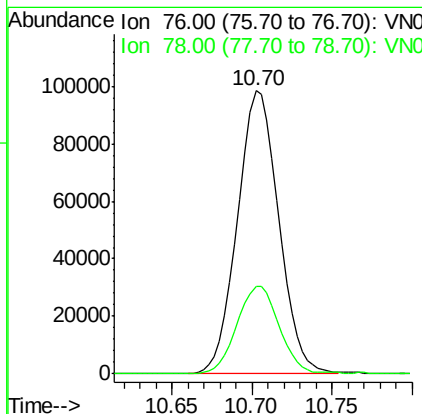
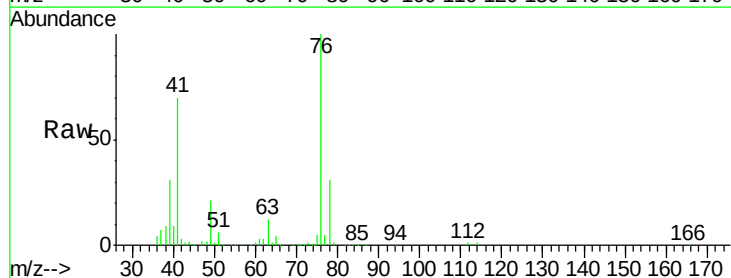
RT: 10.70 min Scan# 2777

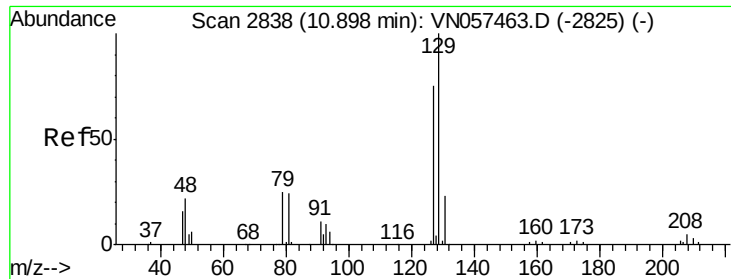
Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	76	Resp:	173518
Ion	Ratio	Lower	Upper
76	100		
78	31.8	0.0	63.0





#53

Dibromochloromethane

Concen: 19.527 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion:129 Resp: 99719

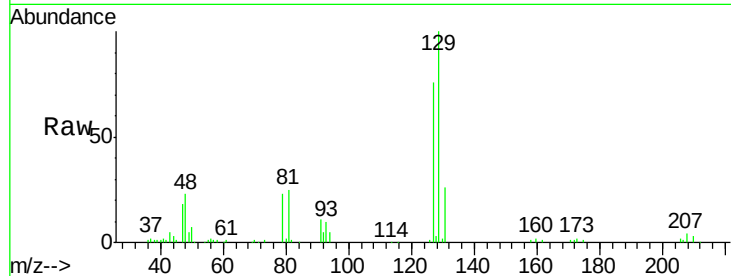
Ion Ratio Lower Upper

129 100

127 76.3 38.1 114.3

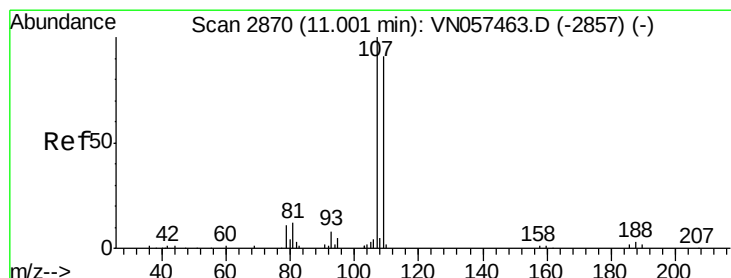
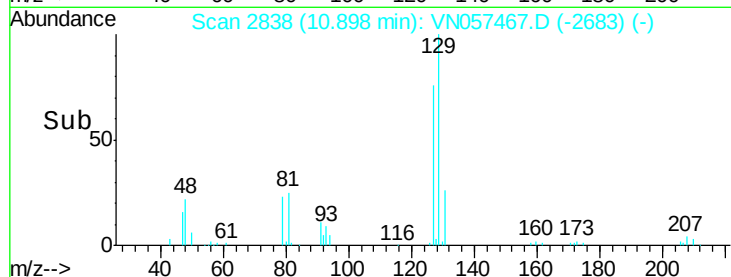
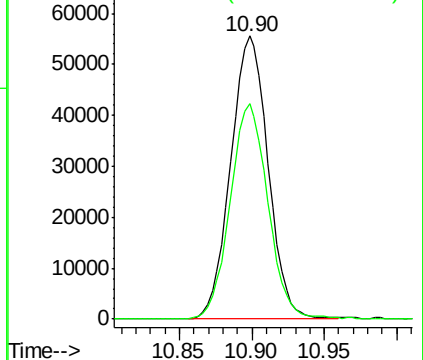
Manual Integrations
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 19.273 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN057467.D

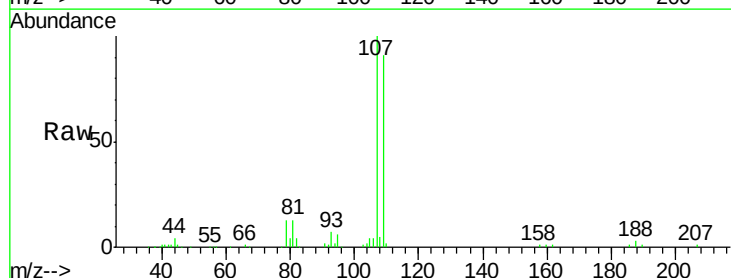
Acq: 23 Aug 2019 11:53

Tgt Ion:107 Resp: 94465

Ion Ratio Lower Upper

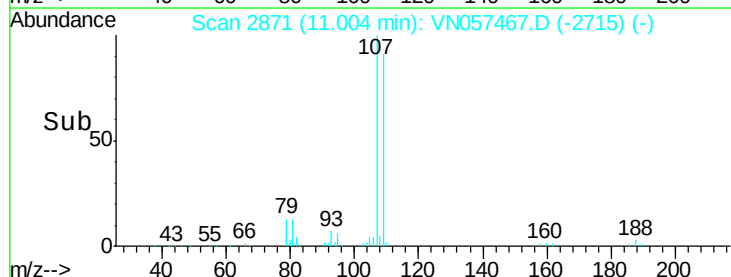
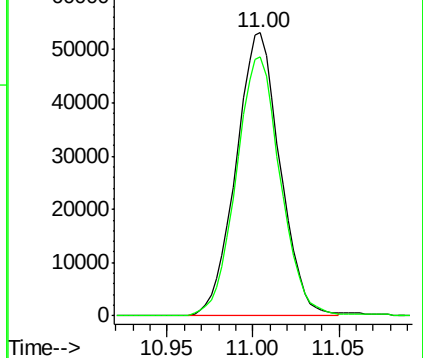
107 100

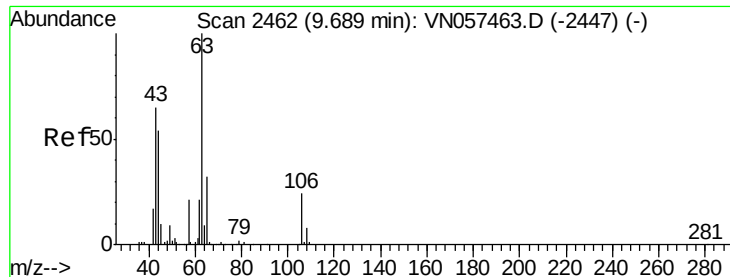
109 91.7 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 95.240 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

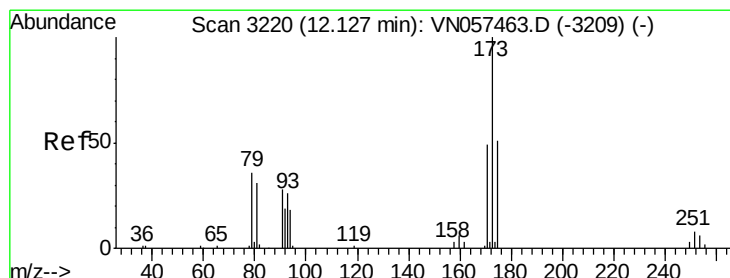
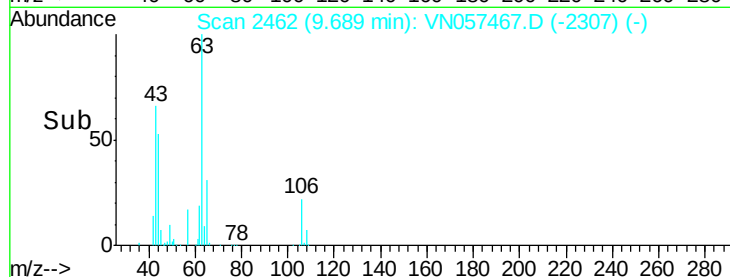
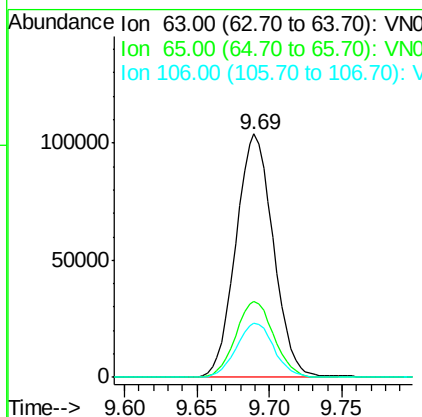
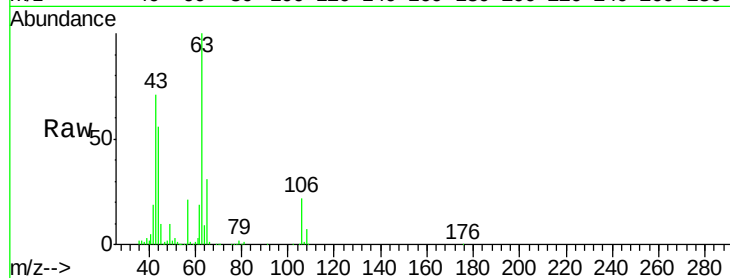
ClientSampleId :

ICVVN082319

Tot Ion:	63	Resp:	186944
Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.1	37.7
106	22.4	18.7	28.1

Manual Integrations
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#56

Bromoform

Concen: 19.132 ug/l

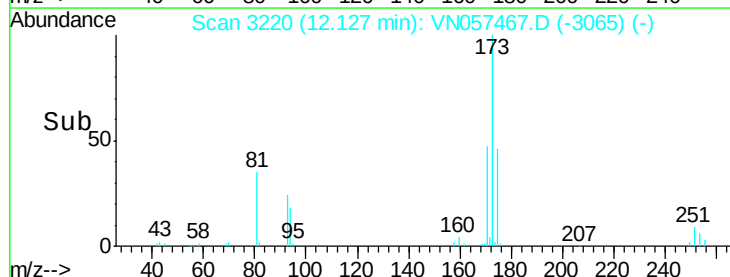
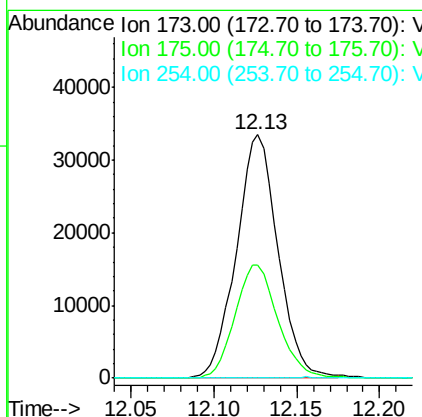
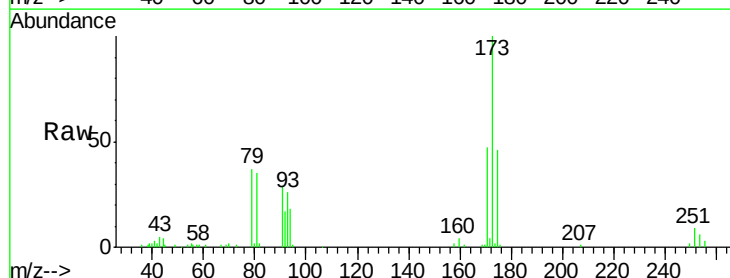
RT: 12.13 min Scan# 3220

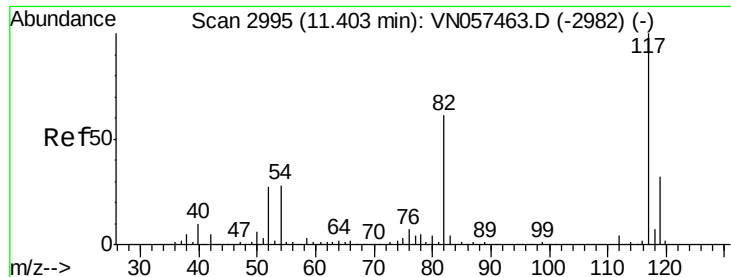
Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	173	Resp:	58311
Ion	Ratio	Lower	Upper
173	100		
175	47.9	40.1	60.1
254	0.0	0.0	0.0





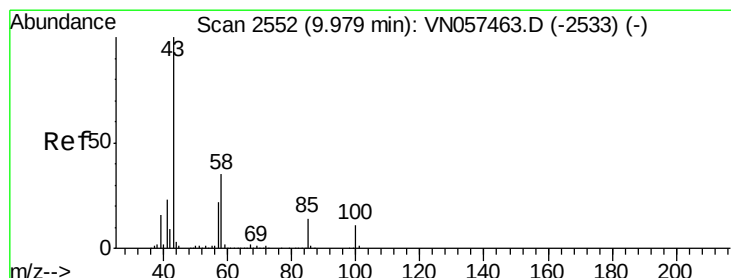
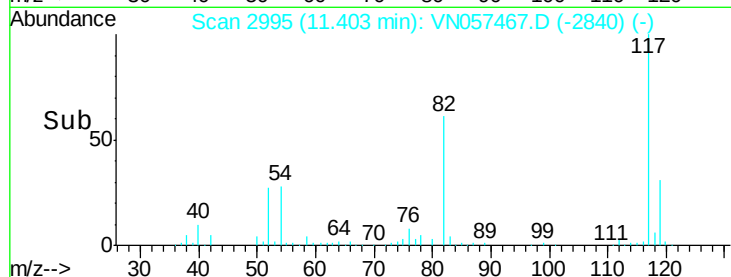
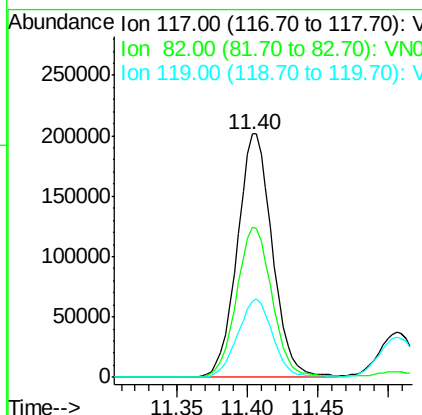
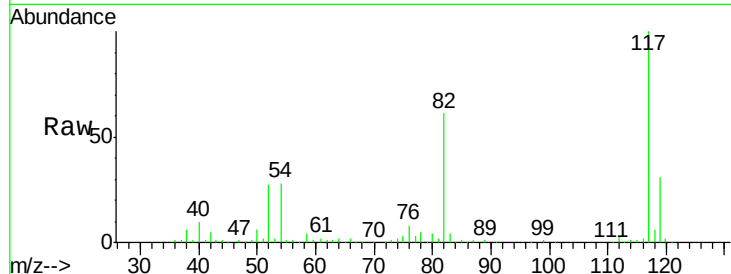
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampled :
ICVVN082319

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.6	50.4	75.6
119	32.0	25.4	38.2

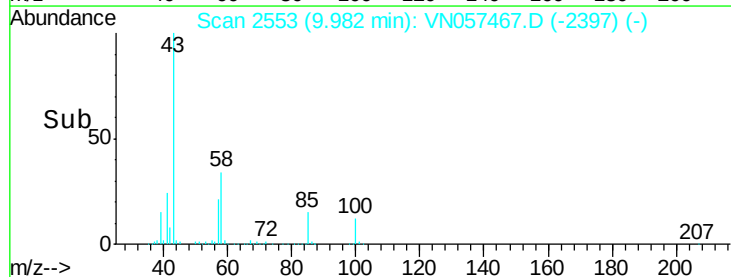
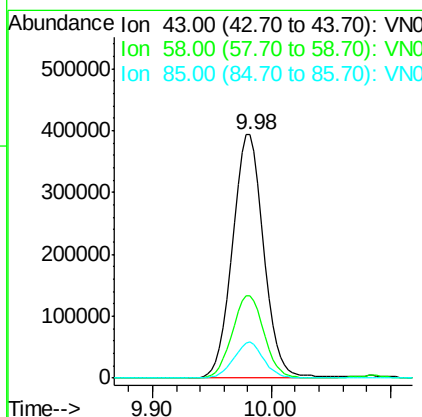
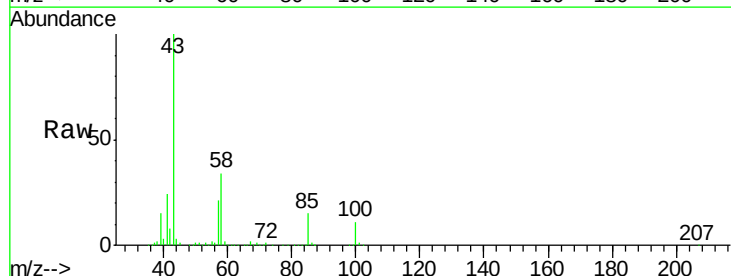
Manual Integrations
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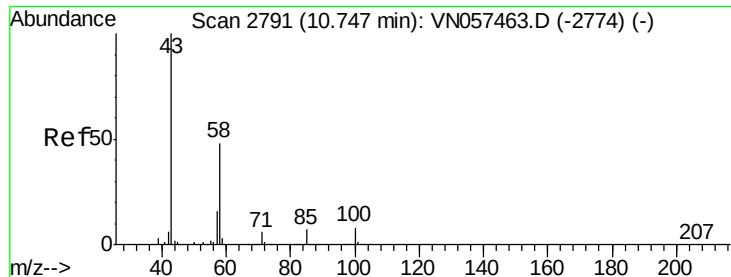
MMDadoda
8/26/2019 1:12:10 PM



#58
4-Methyl-2-Pentanone
Concen: 103.027 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.0	28.0	42.0
85	14.2	11.3	16.9





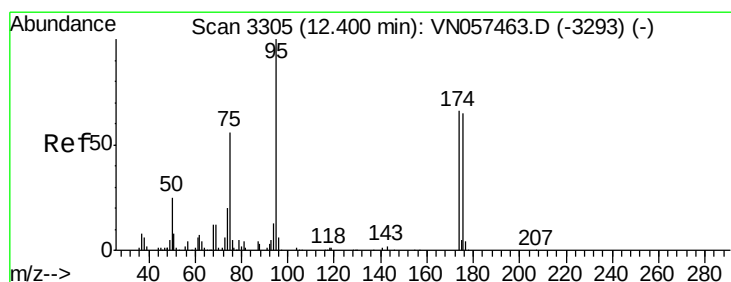
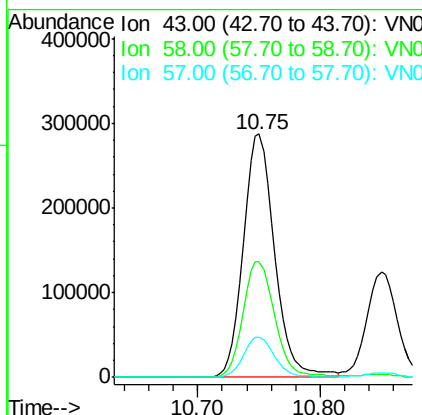
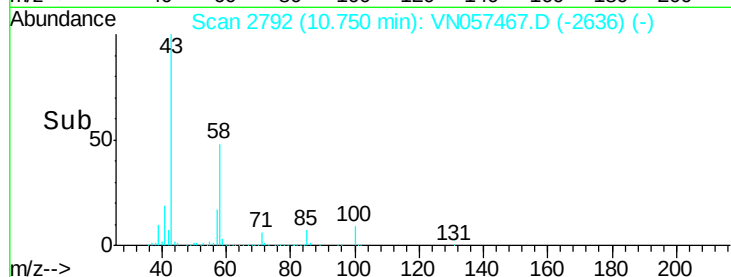
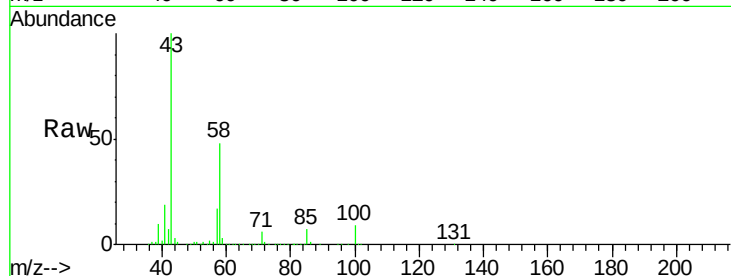
#59
2-Hexanone
Concen: 105.528 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	43	Resp	504580
Ion Ratio	Lower	Upper	
43	100		
58	48.6	38.9	58.3
57	16.6	13.0	19.4

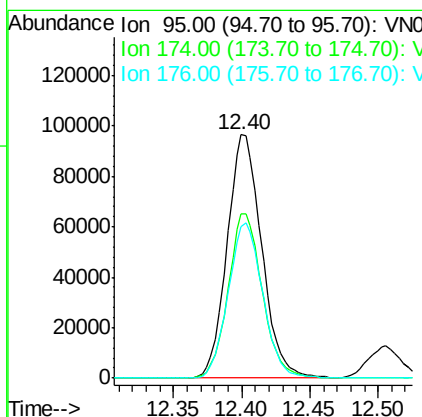
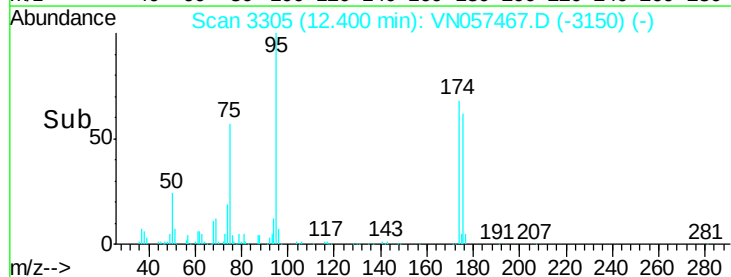
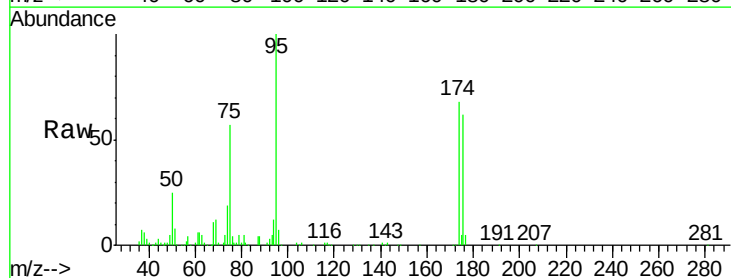
Manual Integrations
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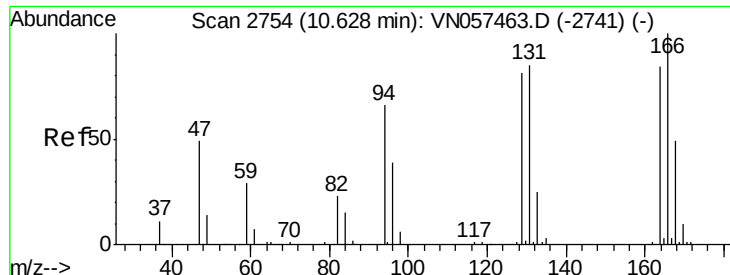
MMDadoda
8/26/2019 1:12:10 PM



#60
4-Bromofluorobenzene
Concen: 29.347 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	95	Resp	170170
Ion Ratio	Lower	Upper	
95	100		
174	66.6	54.9	82.3
176	63.6	54.2	81.4





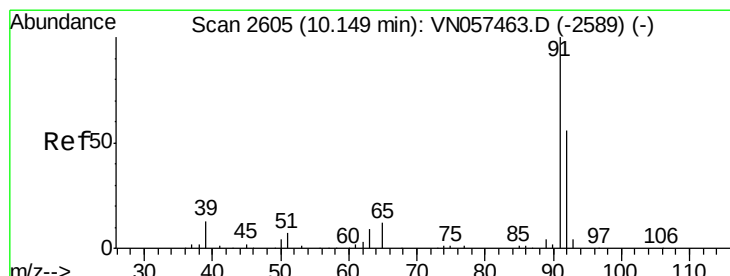
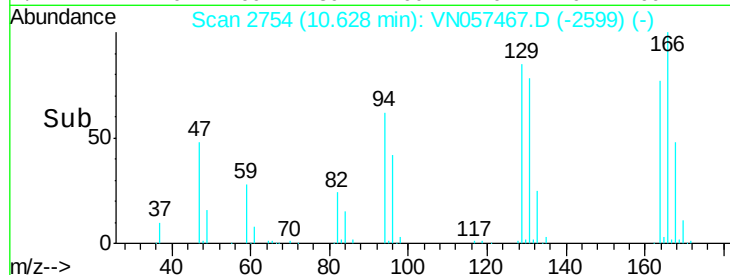
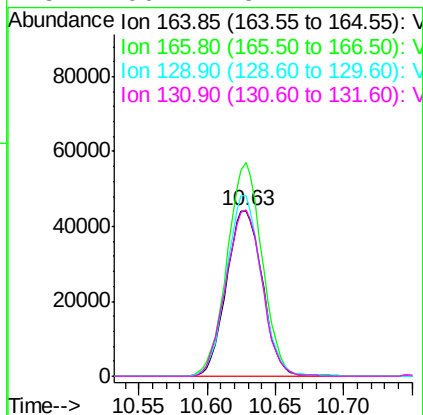
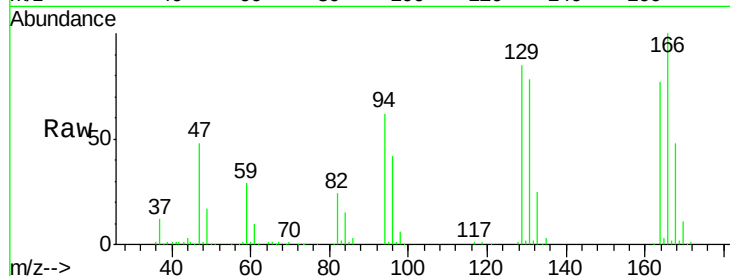
#61
Tetrachloroethene
Concen: 20.111 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Lower	Upper
164	100		
166	129.3	95.8	143.6
129	109.7	77.2	115.8
131	100.7	81.1	121.7

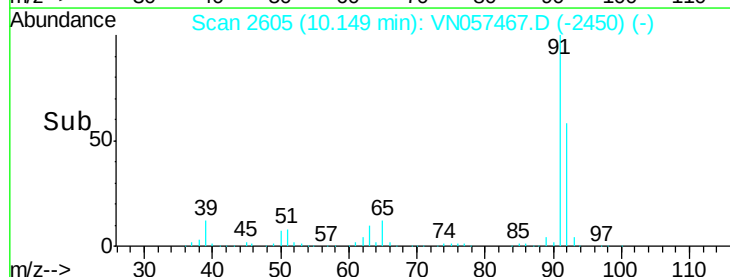
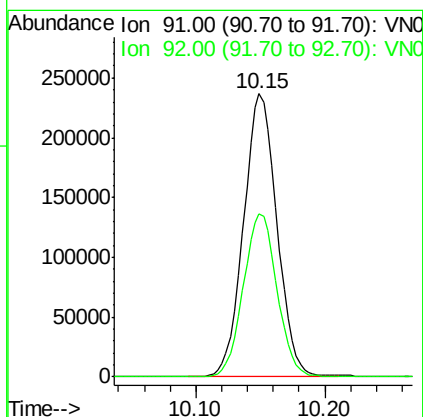
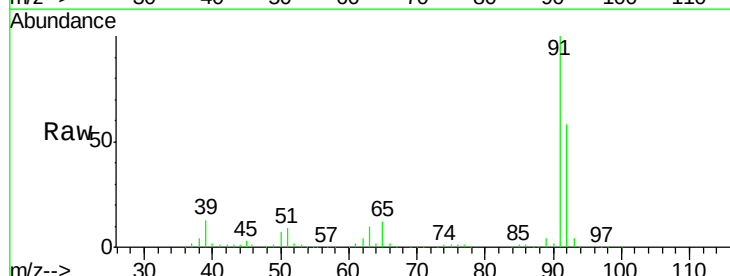
Manual Integrations
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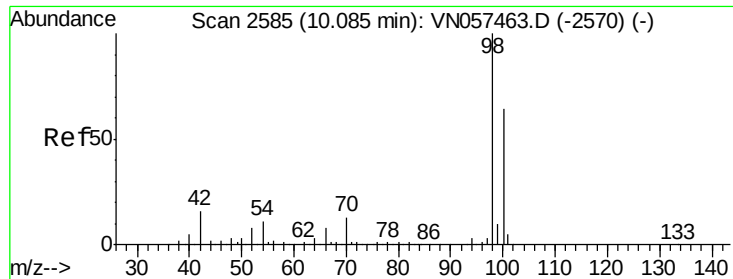
MMDadoda
8/26/2019 1:12:10 PM



#62
Toluene
Concen: 19.886 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.9	45.4	68.0





#63

Toluene-d8

Concen: 29.958 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 98 Resp: 531998

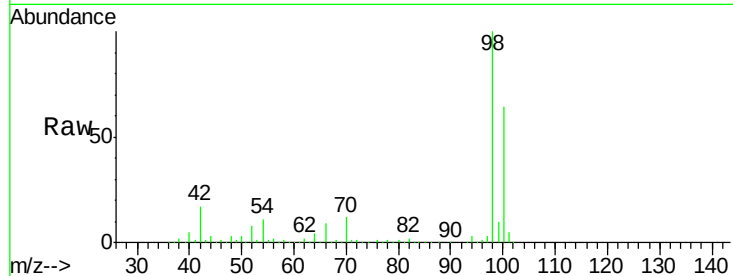
Ion Ratio Lower Upper

98 100

100 64.8 51.0 76.6

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Abundance Ion 98.00 (97.70 to 98.70): VN057467.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN057467.D (-2570) (-)

10.08

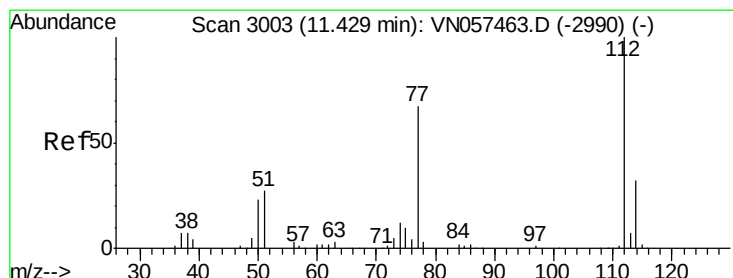
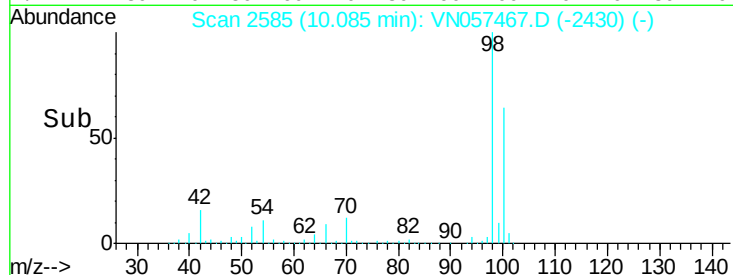
300000

200000

100000

0

Time-->



#64

Chlorobenzene

Concen: 20.156 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN057467.D

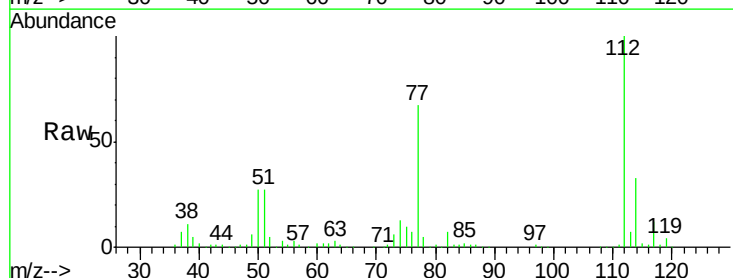
Acq: 23 Aug 2019 11:53

Tgt Ion: 112 Resp: 235498

Ion Ratio Lower Upper

112 100

114 33.0 25.6 38.4



Abundance Ion 112.00 (111.70 to 112.70): VN057467.D (-2848) (-)

Ion 114.00 (113.70 to 114.70): VN057467.D (-2848) (-)

11.43

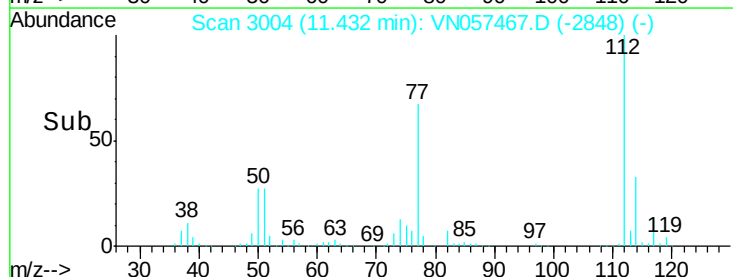
150000

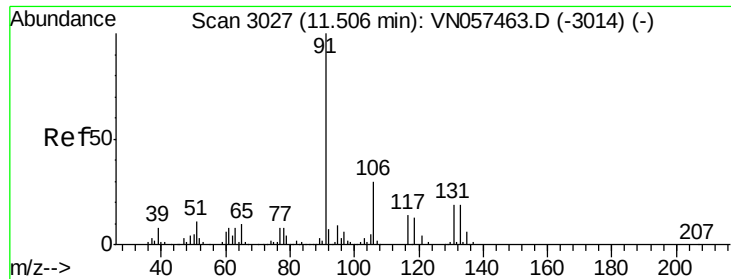
100000

50000

0

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 20.021 ug/l

RT: 11.51 min Scan# 3027

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

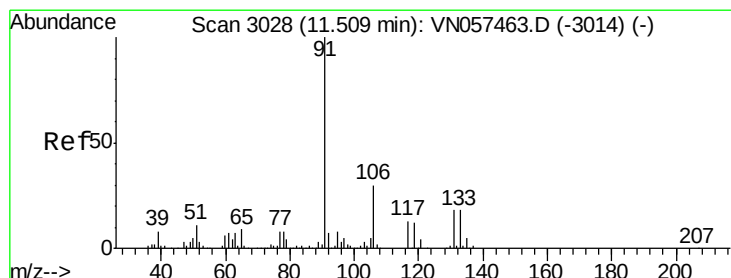
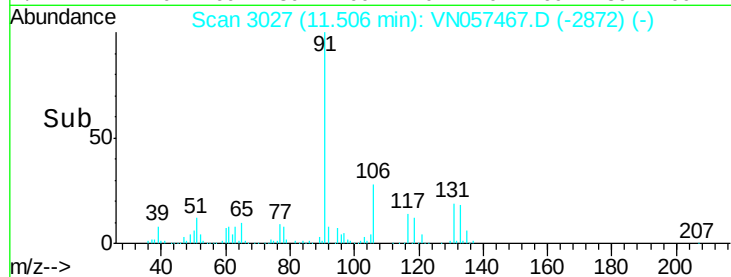
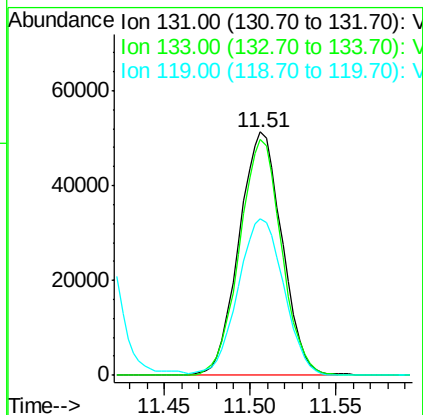
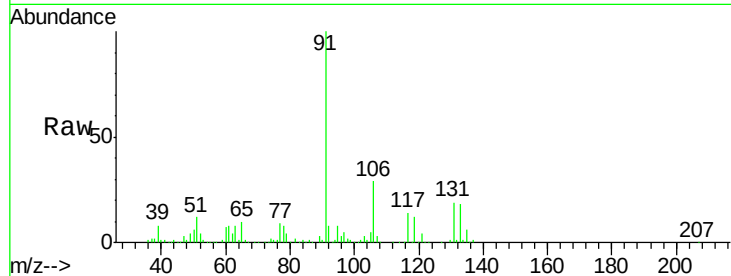
ClientSampleId :

ICVVN082319

Tot Ion:	131	Resp:	88896
Ion	Ratio	Lower	Upper
131	100		
133	94.6	0.0	193.6
119	68.6	0.0	137.4

Manual Integrations
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#66

Ethyl Benzene

Concen: 20.103 ug/l

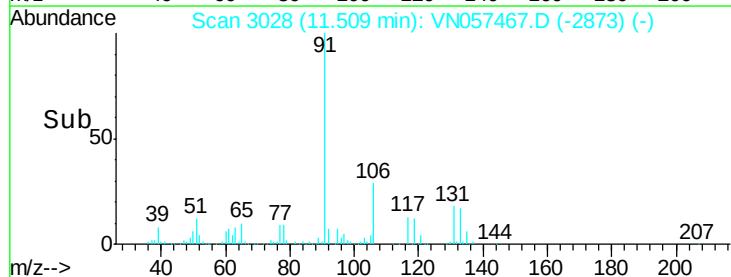
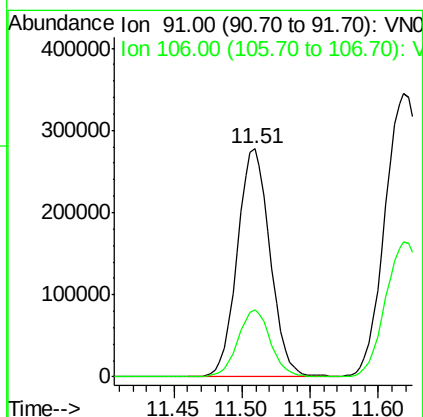
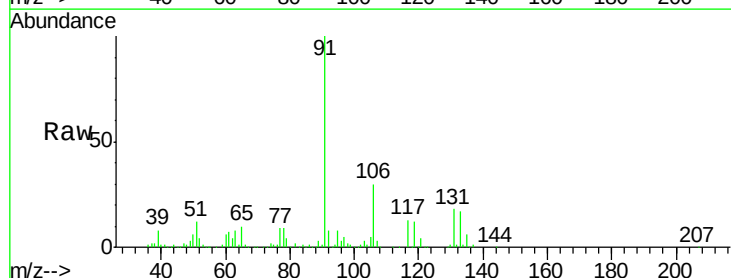
RT: 11.51 min Scan# 3028

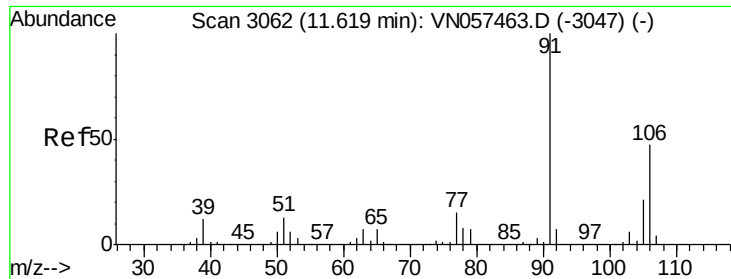
Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	91	Resp:	462389
Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.6	35.4





#67

m/p-Xylenes

Concen: 41.069 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion:106 Resp: 327634

Ion Ratio Lower Upper

106 100

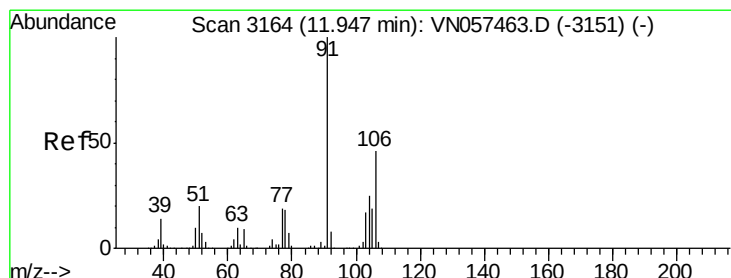
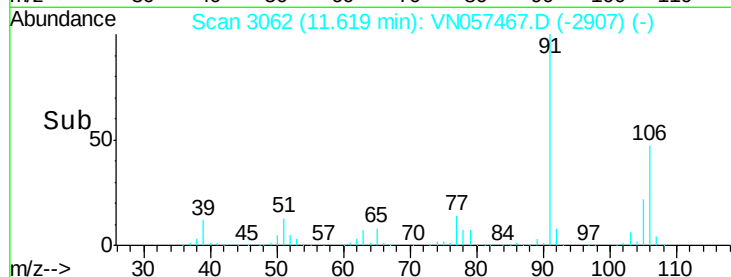
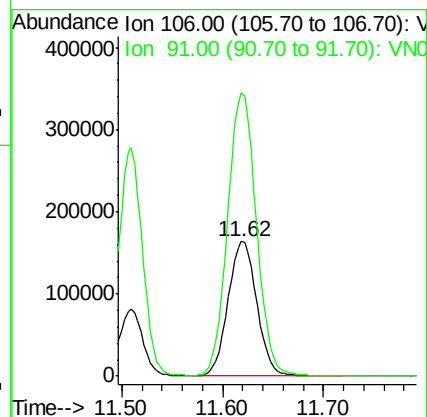
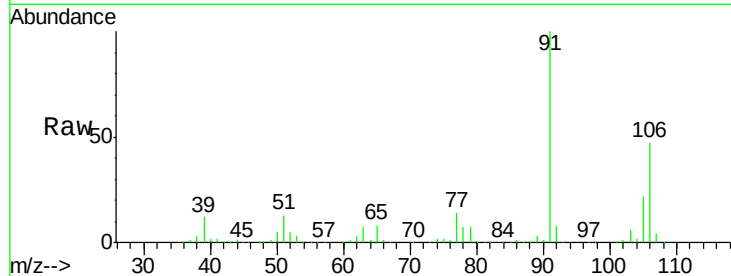
91 208.8 172.9 259.3

Manual Integrations

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#68

o-Xylene

Concen: 19.874 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN057467.D

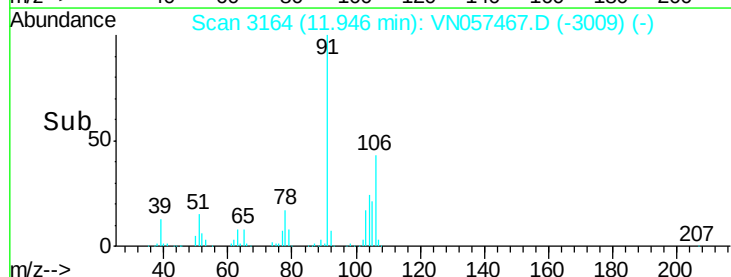
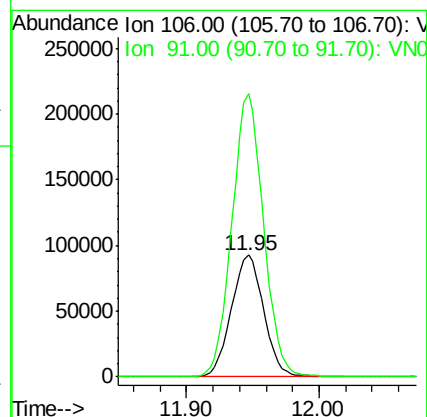
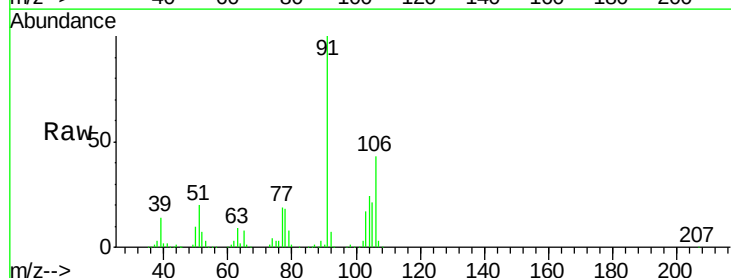
Acq: 23 Aug 2019 11:53

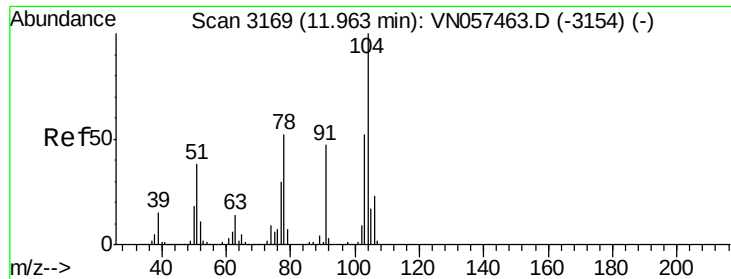
Tgt Ion:106 Resp: 156680

Ion Ratio Lower Upper

106 100

91 227.0 111.1 333.4





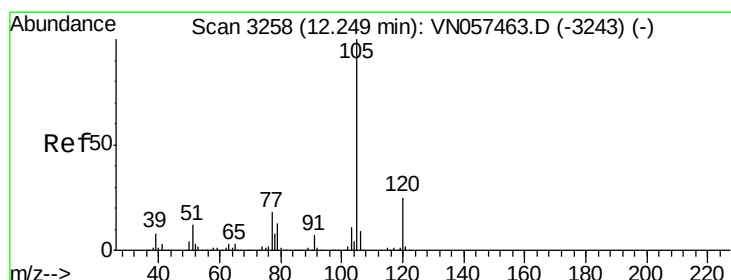
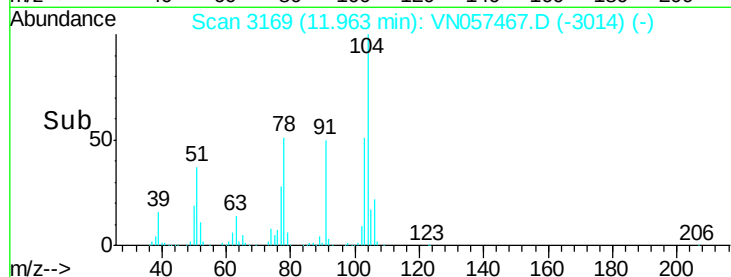
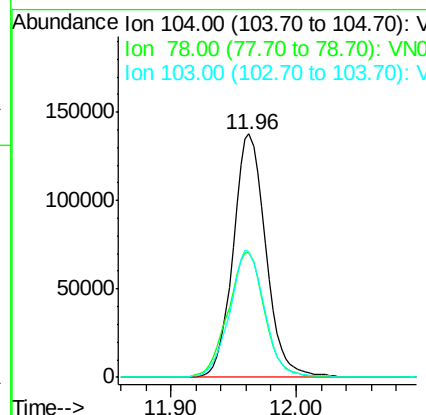
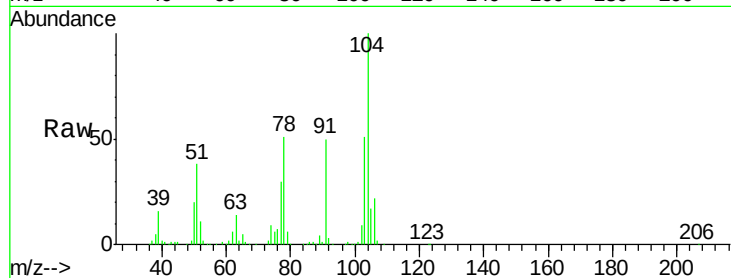
#69
Stvrene
Concen: 19.821 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
104	100	249630		
78	57.1	46.5	69.7	
103	55.6	45.9	68.9	

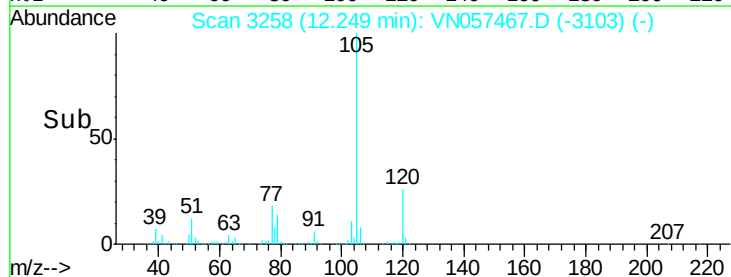
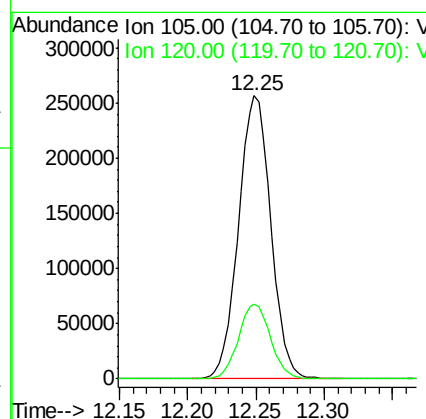
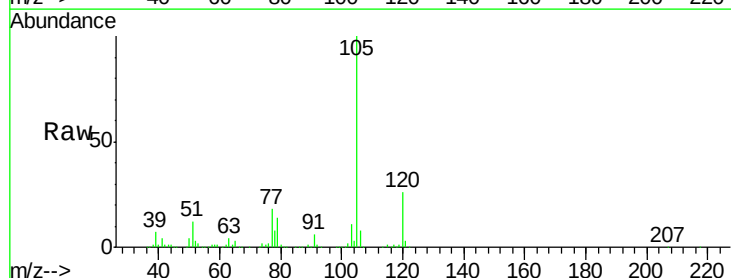
Manual Integrations
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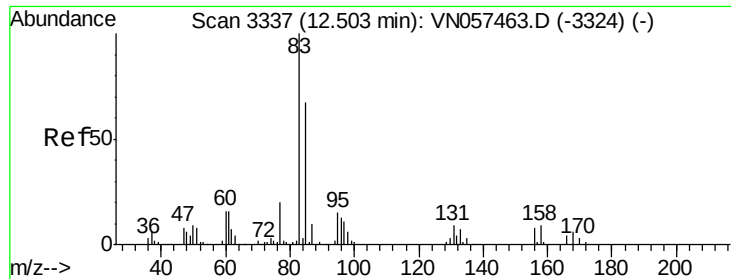
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#70
Isopropylbenzene
Concen: 19.980 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	421381		
120	26.1	17.8	33.1	





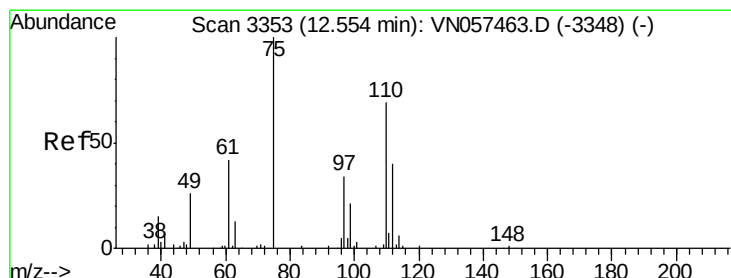
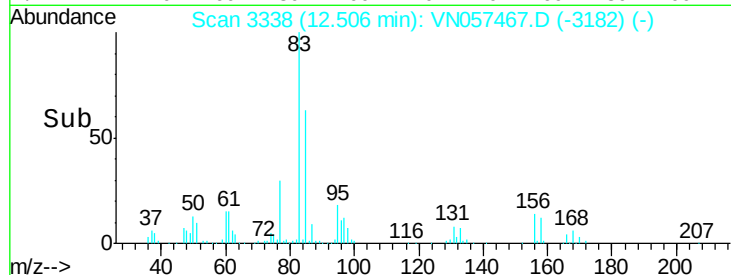
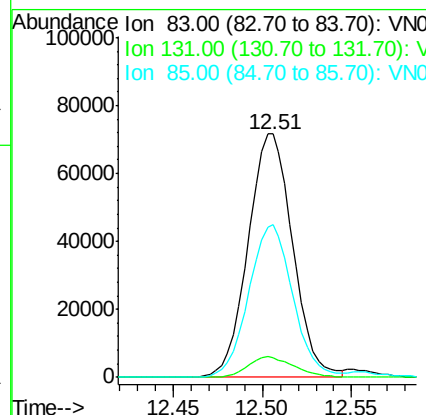
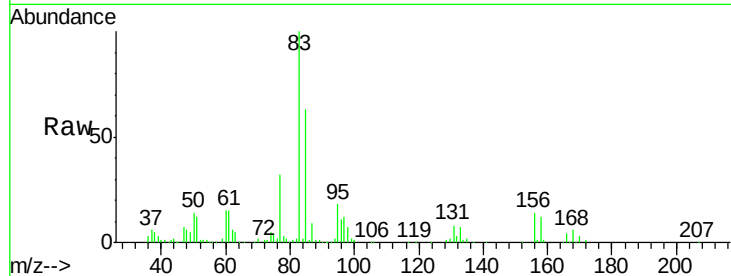
#71
 1,1,2,2-Tetrachloroethane
 Concen: 20.535 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	83	Resp	125244
Ion Ratio	100	Lower	Upper
83	100		
131	8.7	4.7	14.1
85	62.1	33.1	99.2

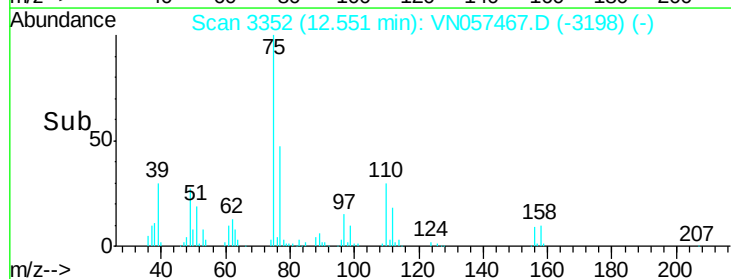
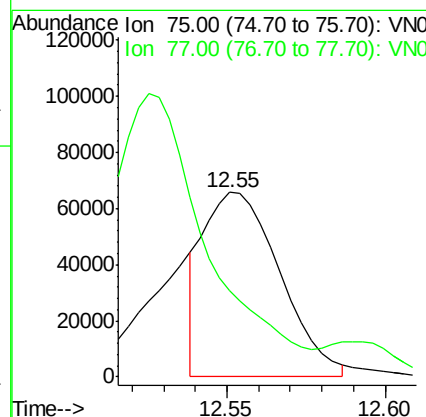
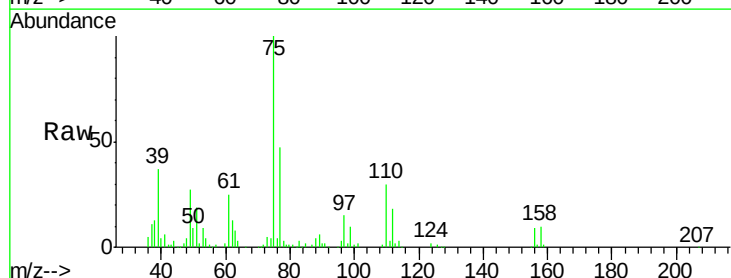
Manual Integrations
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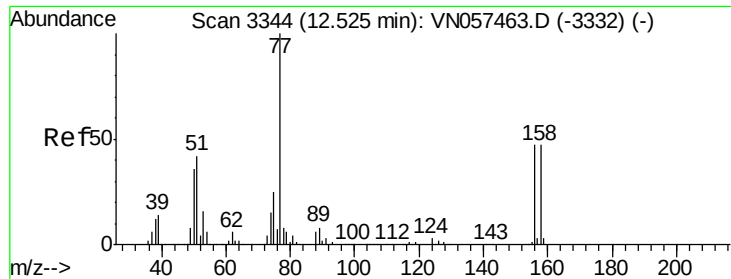
MMDadoda
 8/26/2019 1:12:10 PM



#72
 1,2,3-Trichloropropane
 Concen: 20.063 ug/l m
 RT: 12.55 min Scan# 3352
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	75	Resp	111078
Ion Ratio	100	Lower	Upper
75	100		
77	195.9	0.0	380.2





#73

Bromobenzene

Concen: 19.569 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

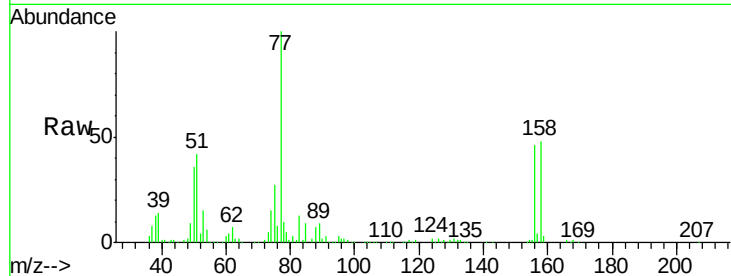
ClientSampled :

ICVVN082319

Tot Ion:	156	Resp:	83537
Ion Ratio	Lower	Upper	
156	100		
77	260.5	0.0	506.8
158	101.2	0.0	196.6

Manual Integrations
APPROVED

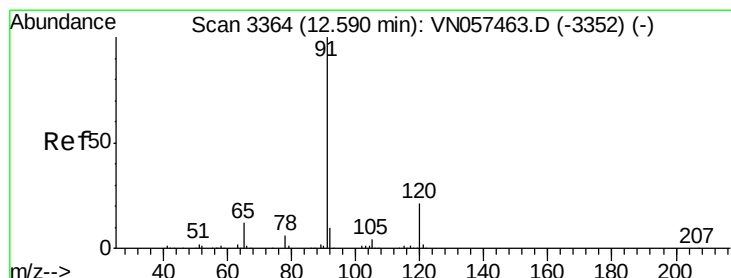
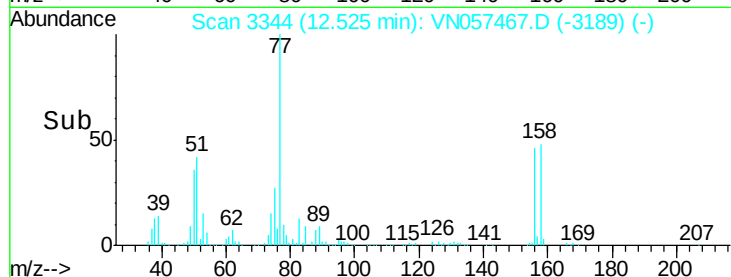
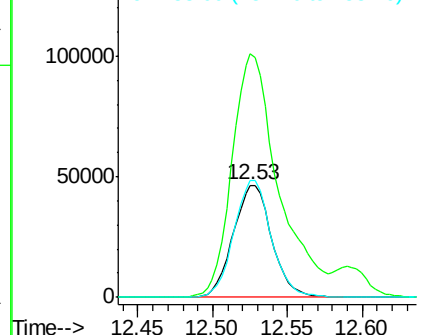
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 20.035 ug/l

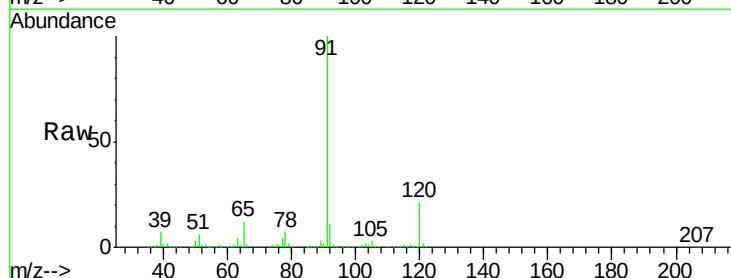
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN057467.D

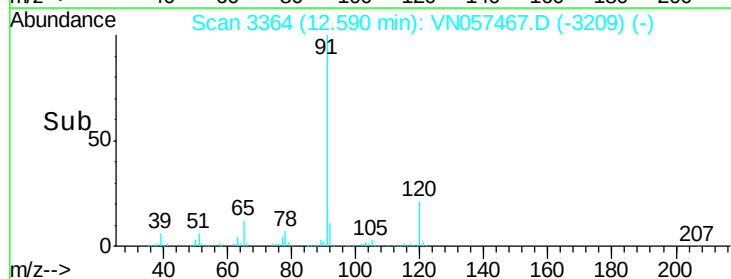
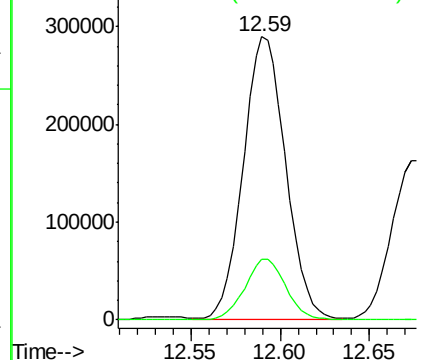
Acq: 23 Aug 2019 11:53

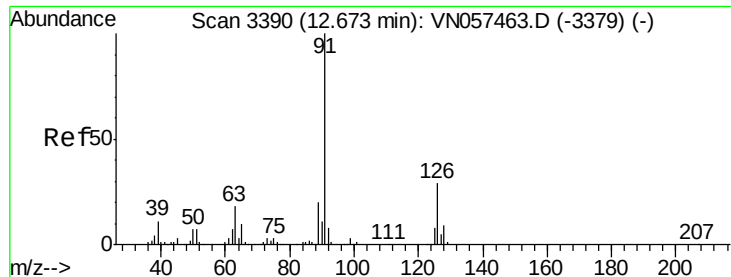
Tgt Ion:	91	Resp:	481838
Ion Ratio	Lower	Upper	
91	100		
120	20.8	0.0	42.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 20.071 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion: 91 Resp: 284274

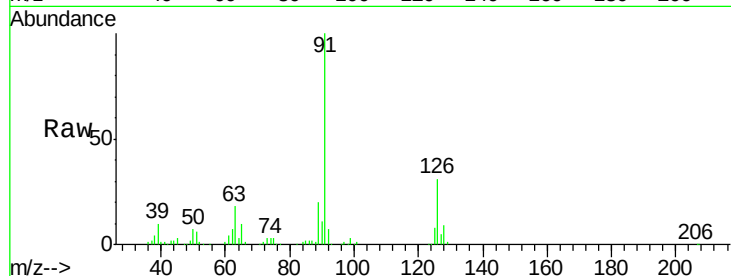
Ion Ratio Lower Upper

91 100

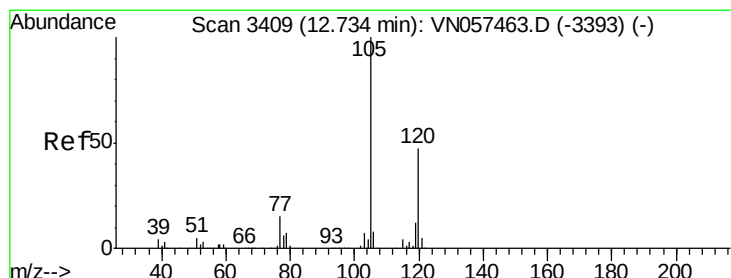
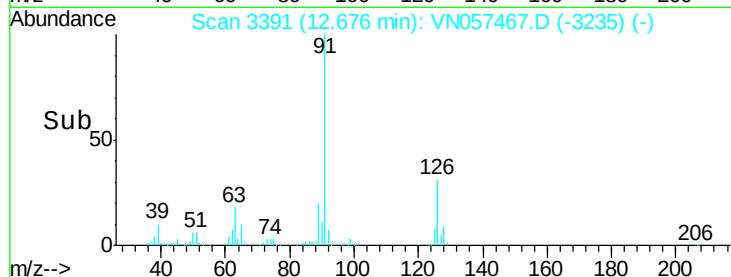
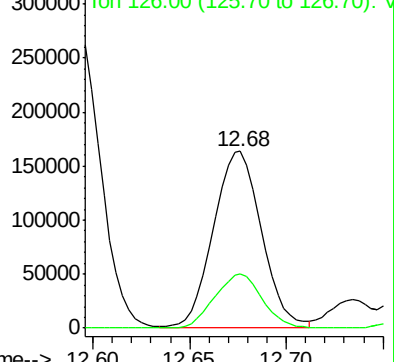
126 30.1 0.0 60.4

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Abundance Ion 91.00 (90.70 to 91.70): VN057467.D (-3235) (-)



#76

1,3,5-Trimethylbenzene

Concen: 20.045 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN057467.D

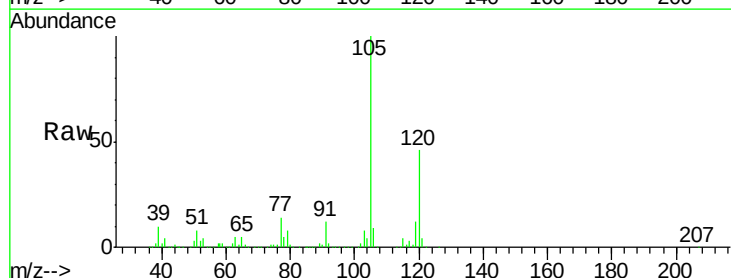
Acq: 23 Aug 2019 11:53

Tgt Ion: 105 Resp: 346952

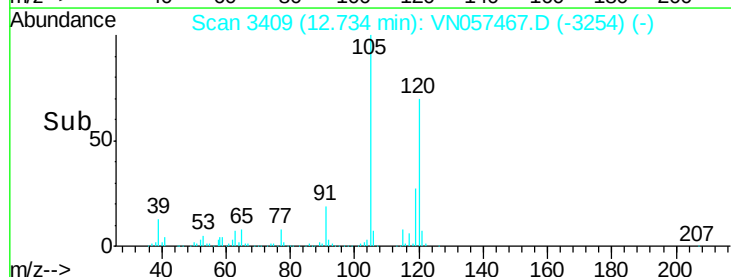
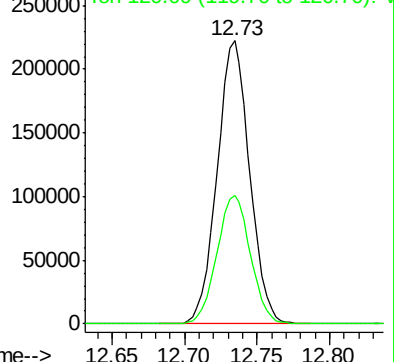
Ion Ratio Lower Upper

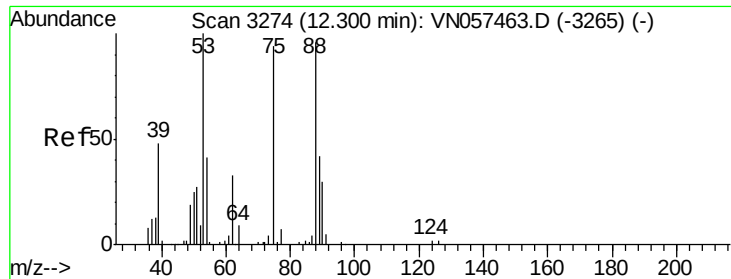
105 100

120 46.7 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): VN057467.D (-3254) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 19.389 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

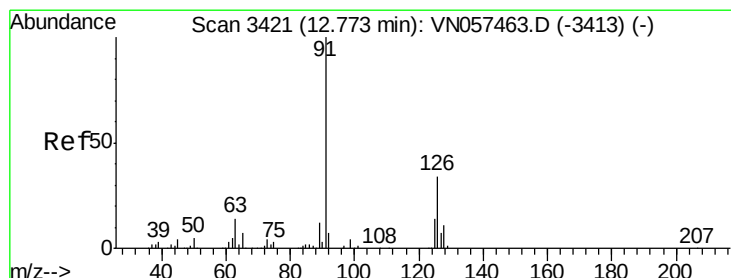
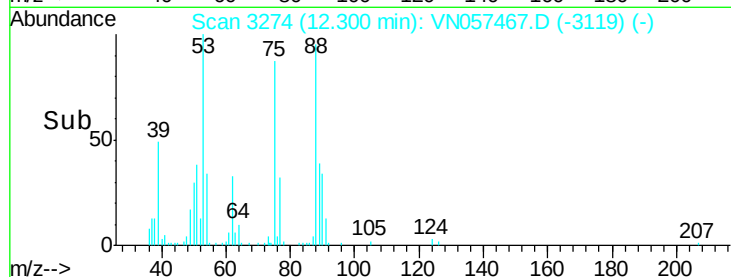
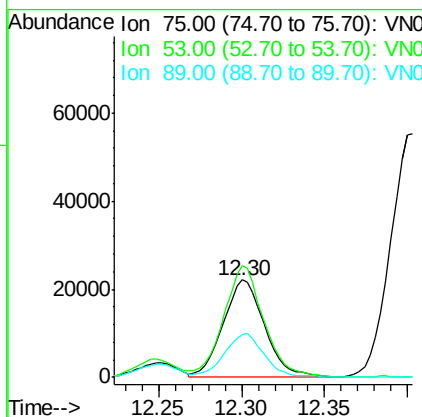
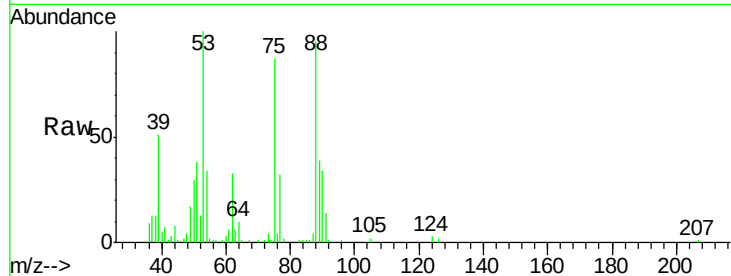
ClientSampleId :

ICVVN082319

Tot Ion:	75	Resp:	38495
Ion Ratio	Lower	Upper	
75	100		
53	114.2	55.6	166.9
89	44.4	23.8	71.4

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#78

4-Chlorotoluene

Concen: 19.557 ug/l

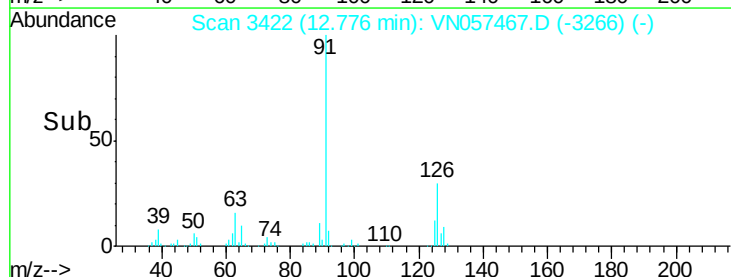
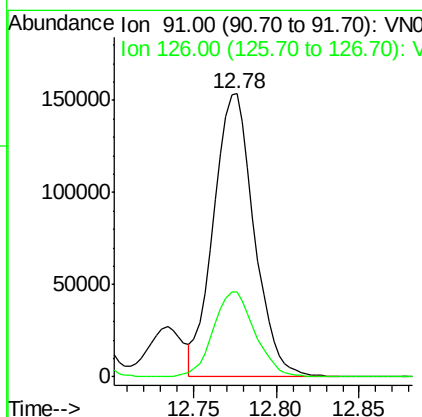
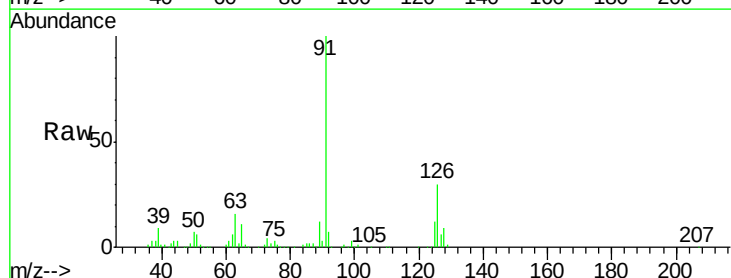
RT: 12.78 min Scan# 3422

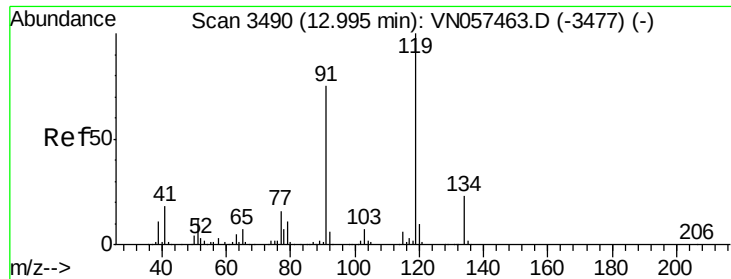
Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Tgt Ion:	91	Resp:	261725
Ion Ratio	Lower	Upper	
91	100		
126	30.8	0.0	61.6





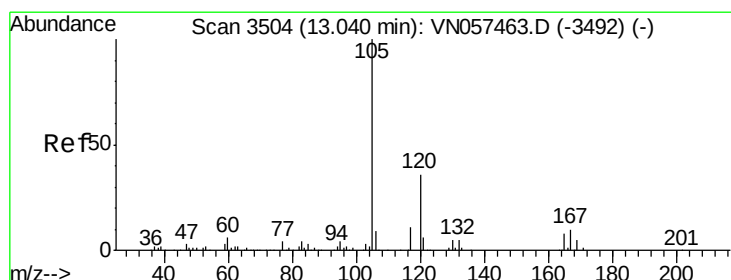
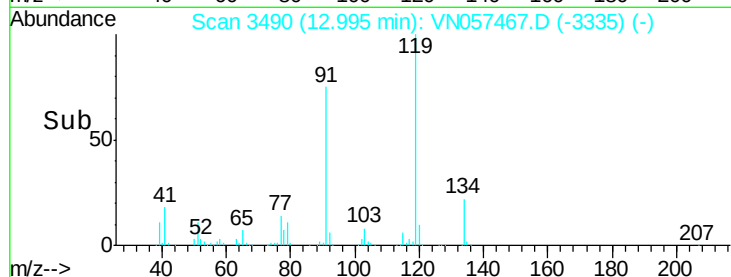
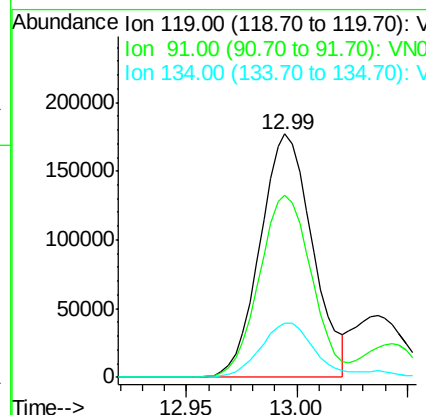
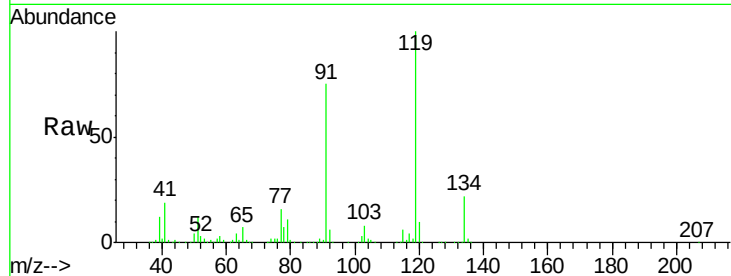
#79
tert-butylbenzene
Concen: 19.787 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
119	100	291424		
91	75.1	0.0	146.6	
134	23.0	0.0	46.2	

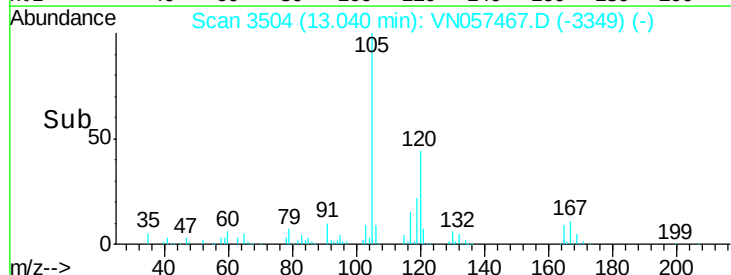
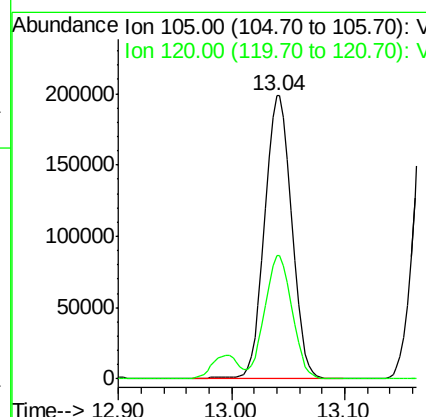
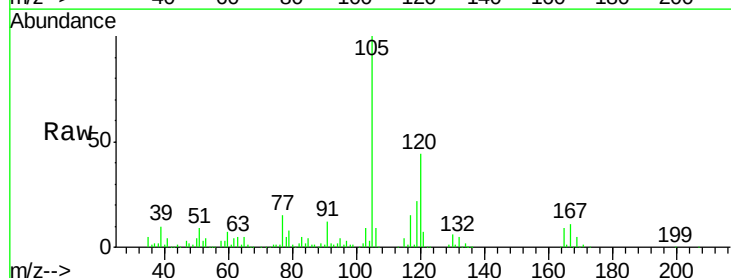
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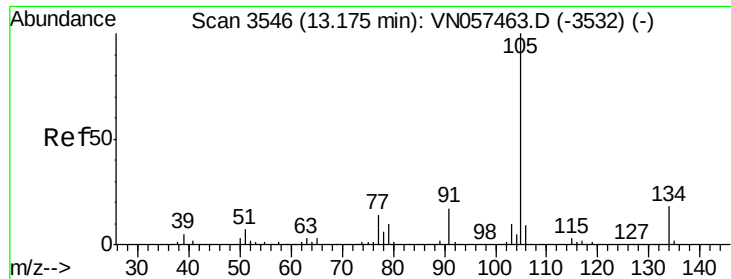
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#80
1,2,4-Trimethylbenzene
Concen: 20.547 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	331555		
120	43.6	0.0	85.4	





#81

sec-Butylbenzene

Concen: 20.047 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

ClientSampleId :

ICVVN082319

Tot Ion:105 Resp: 389076

Ion Ratio Lower Upper

105 100

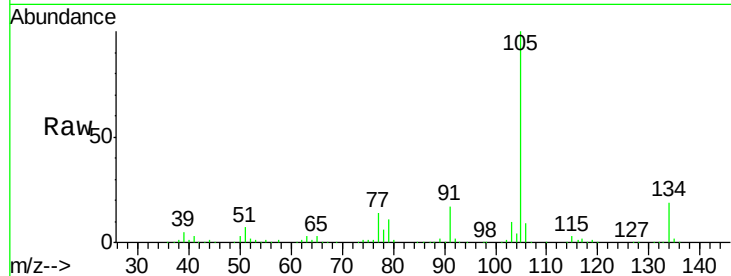
134 19.0 0.0 36.0

Manual Integrations

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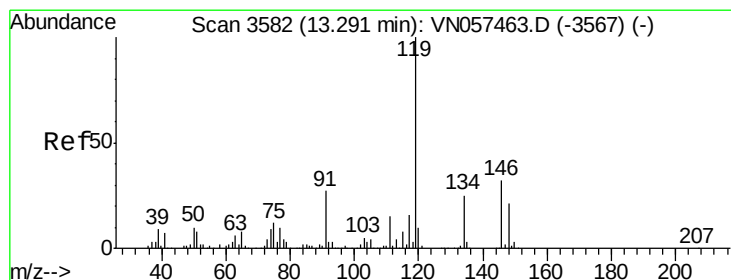
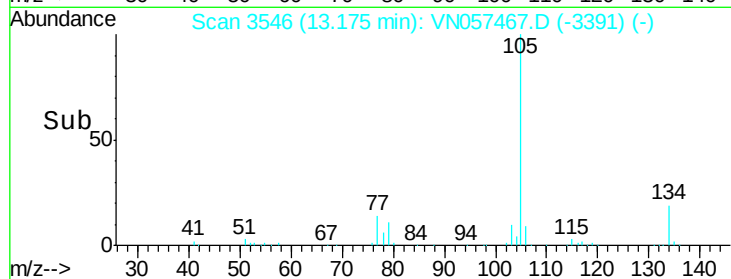
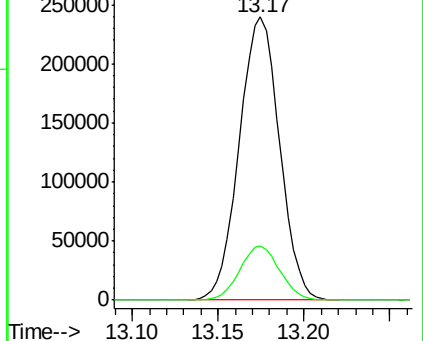
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#82

p-Isopropyltoluene

Concen: 20.005 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

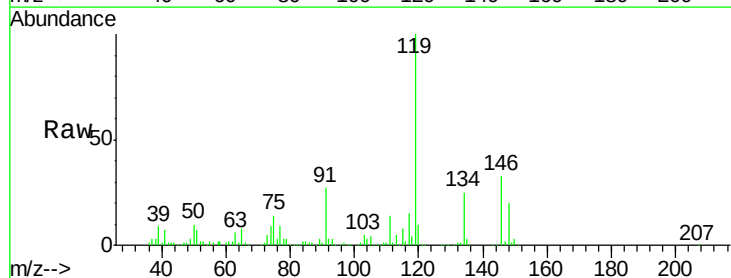
Tgt Ion:119 Resp: 326410

Ion Ratio Lower Upper

119 100

134 25.7 0.0 49.6

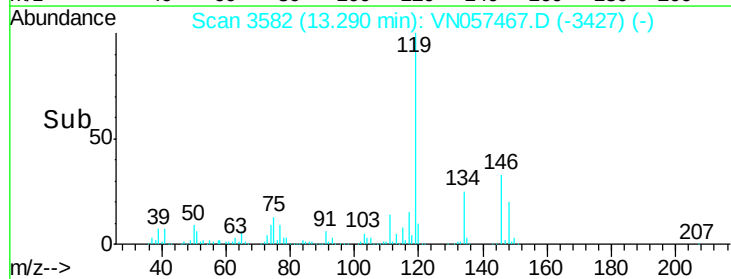
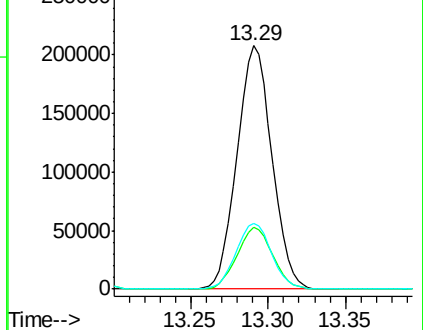
91 27.5 0.0 55.2

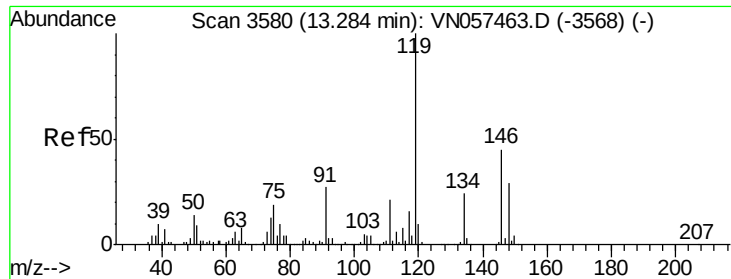


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





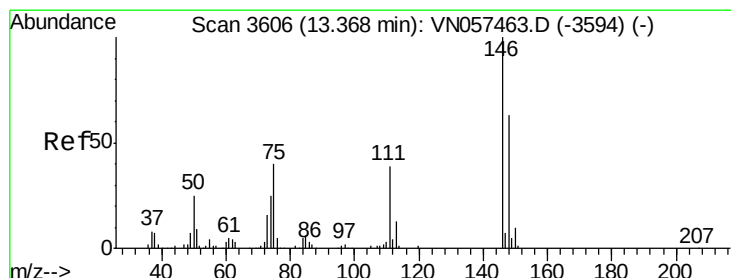
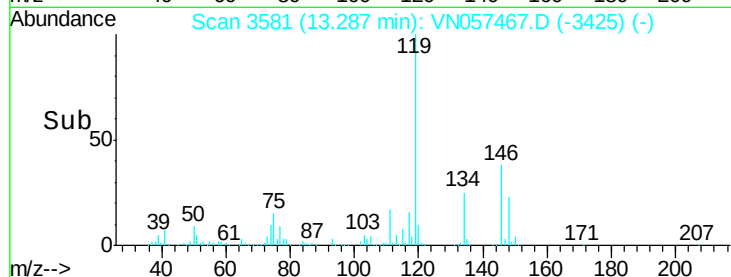
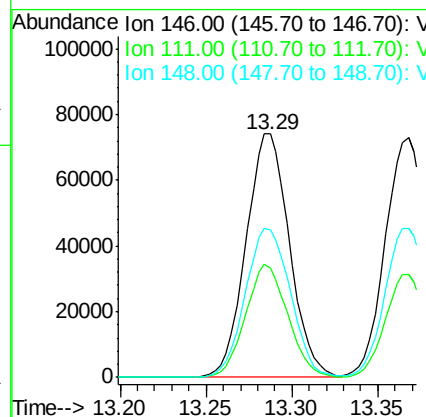
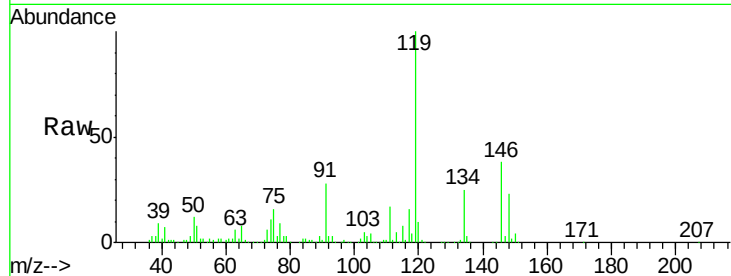
#83
 1,3-Dichlorobenzene
 Concen: 19.520 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.4	67.0
148	63.4	31.8	95.4

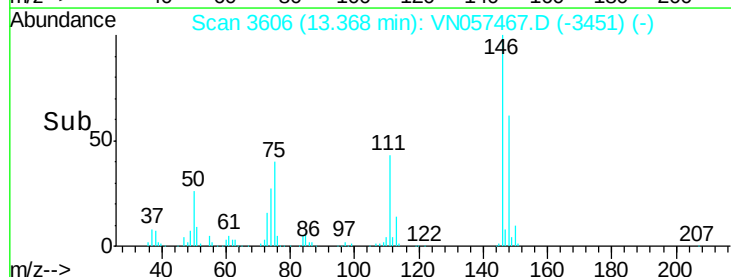
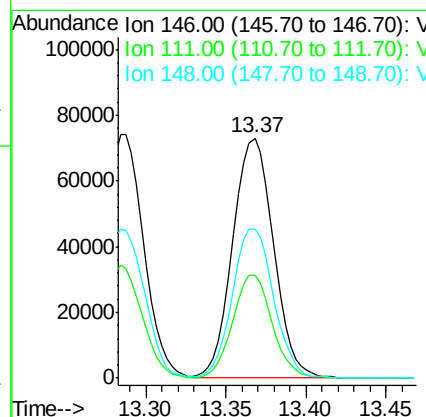
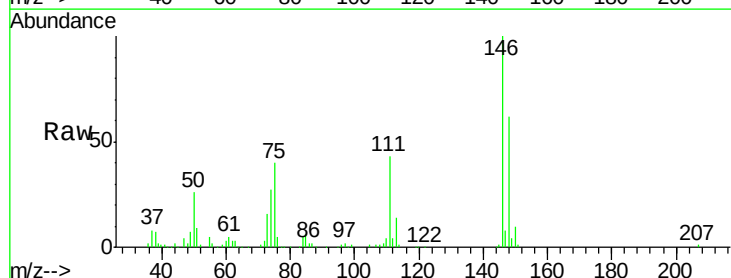
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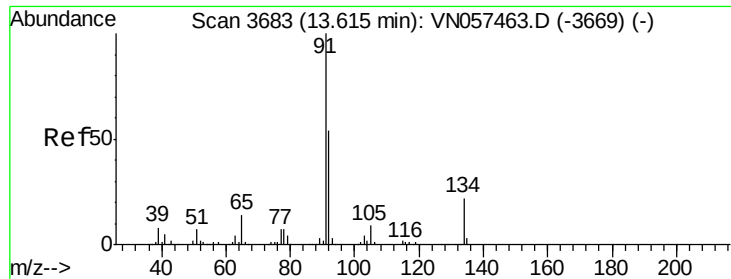
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#84
 1,4-Dichlorobenzene
 Concen: 19.700 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.5	61.5
148	62.6	31.9	95.7





#85

n-Butylbenzene

Concen: 20.264 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN057467.D

Acq: 23 Aug 2019 11:53

Instrument :

MSVOA_N

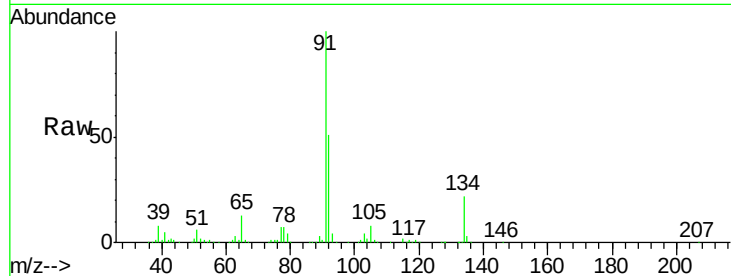
ClientSampled :

ICVVN082319

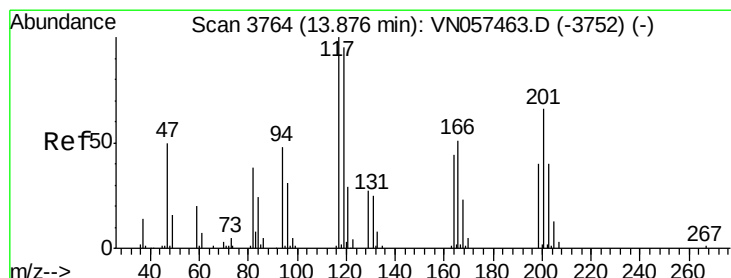
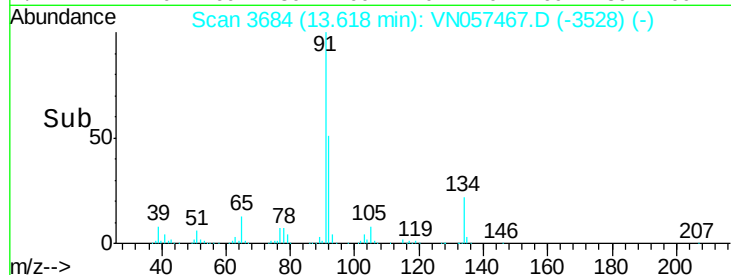
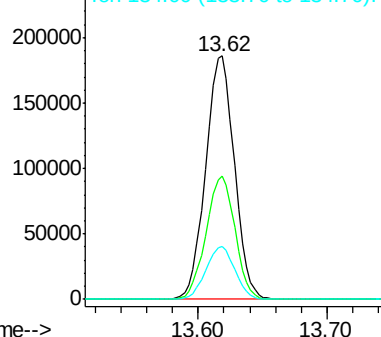
Tot Ion	Ratio	Resp	Lower	Upper
91	100	288255		
92	50.9	0.0	105.6	
134	21.8	0.0	46.0	

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Abundance Ion 91.00 (90.70 to 91.70): VN057467.D (-3669) (-)



#86

Hexachloroethane

Concen: 20.407 ug/l

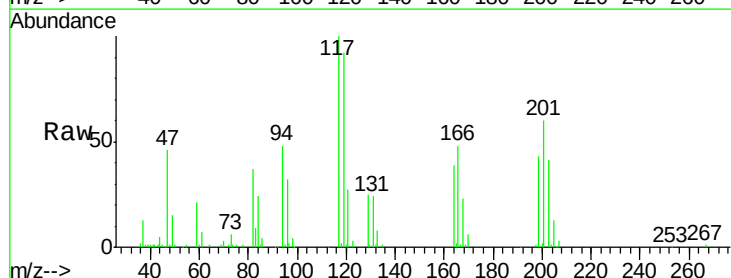
RT: 13.88 min Scan# 3764

Delta R.T. -0.00 min

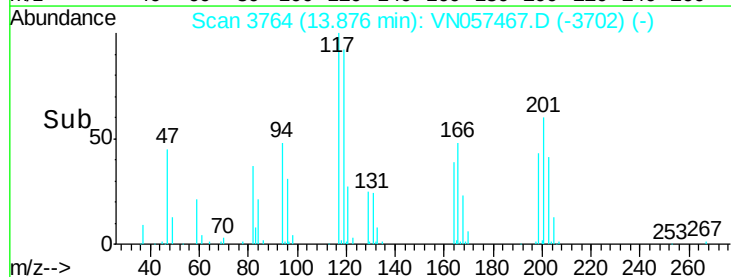
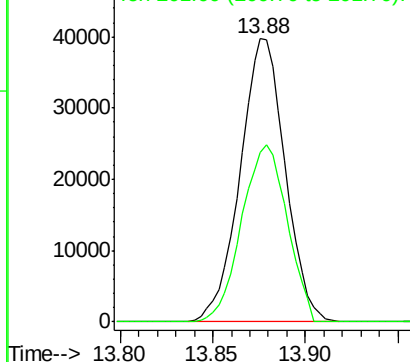
Lab File: VN057467.D

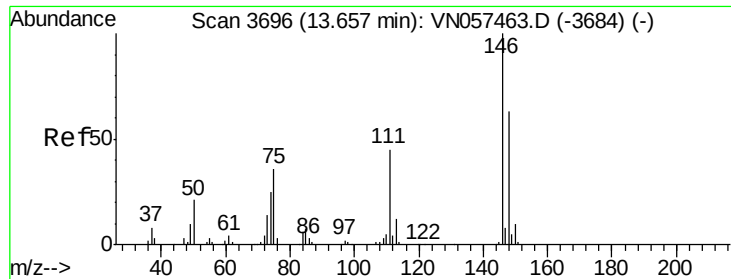
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	67186		
201	63.2	34.0	101.8	



Abundance Ion 117.00 (116.70 to 117.70): VN057467.D (-3752) (-)





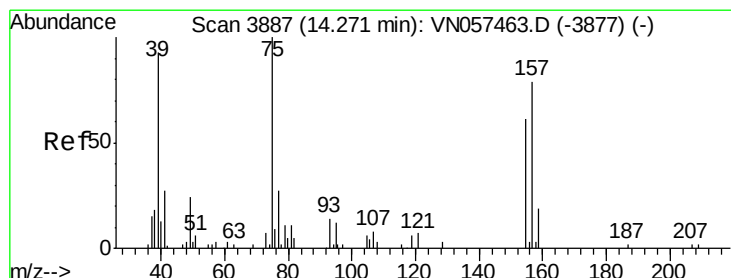
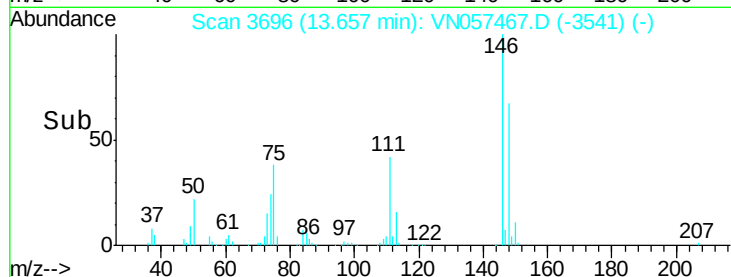
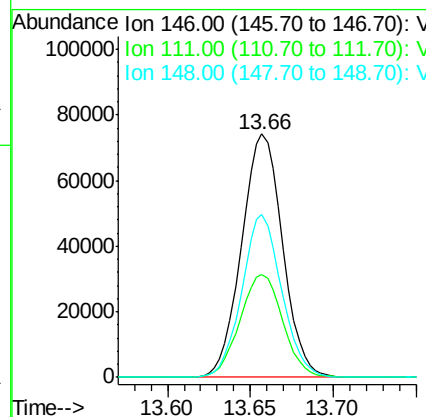
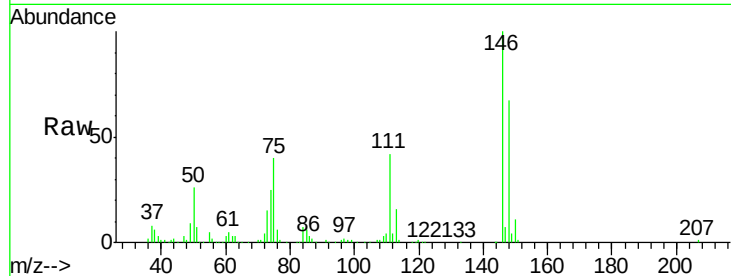
#87
 1,2-Dichlorobenzene
 Concen: 19.516 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion:	146	Resp:	127370
Ion Ratio	Lower	Upper	
146	100		
111	44.2	22.5	67.5
148	64.9	30.9	92.7

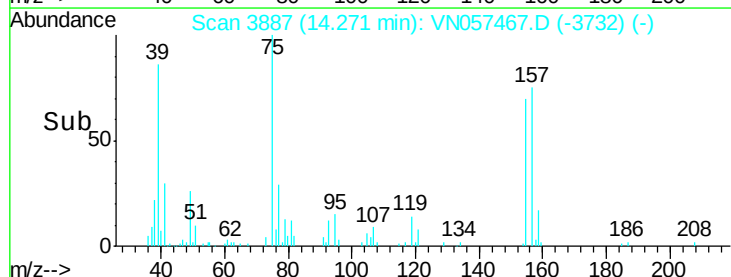
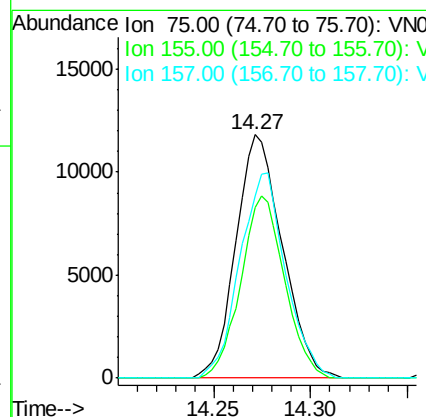
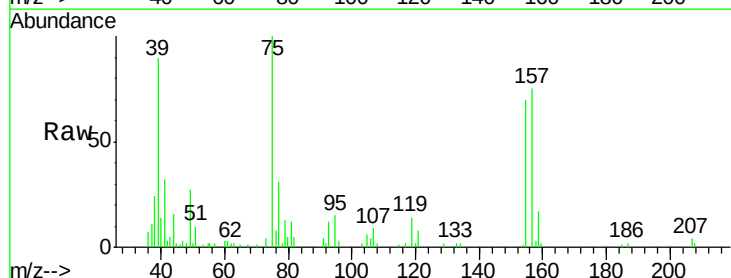
Manual Integrations
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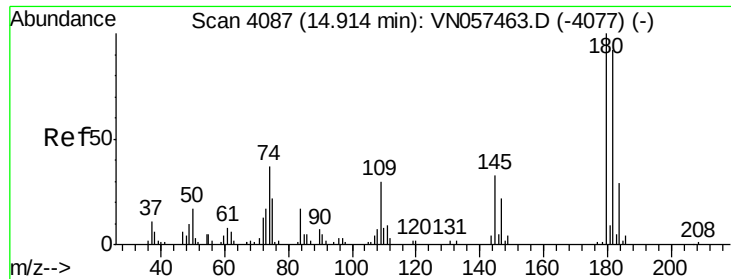
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 19.268 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion:	75	Resp:	19722
Ion Ratio	Lower	Upper	
75	100		
155	70.6	53.7	80.5
157	83.2	63.5	95.3





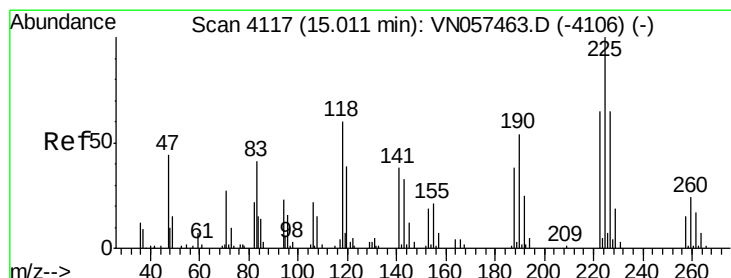
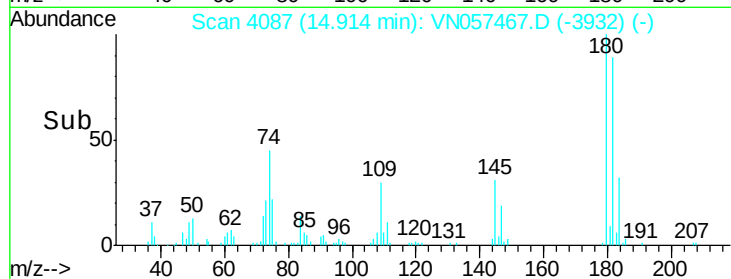
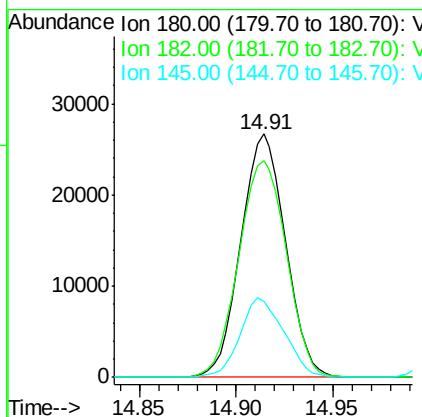
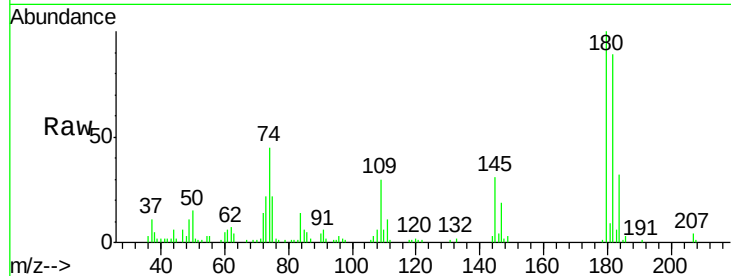
#89
 1,2,4-Trichlorobenzene
 Concen: 17.546 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. -0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
180	100	42907		
182	95.1		75.4	113.2
145	32.1		26.9	40.3

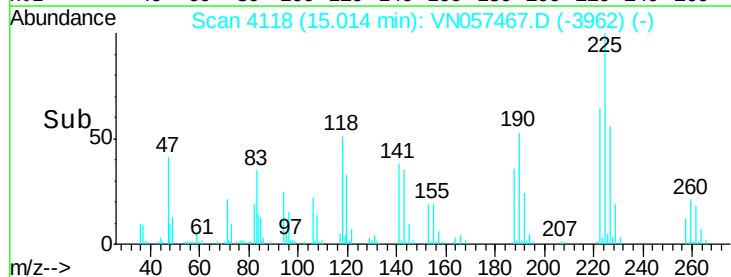
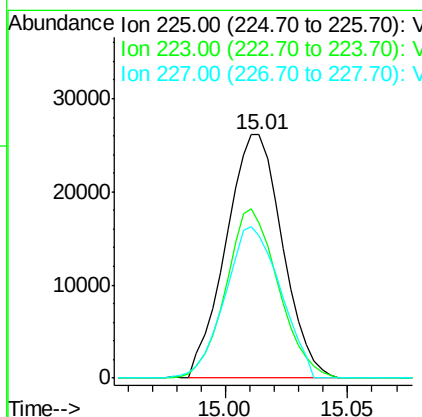
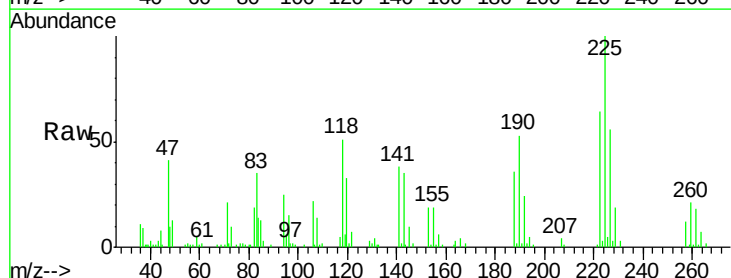
Manual Integrations
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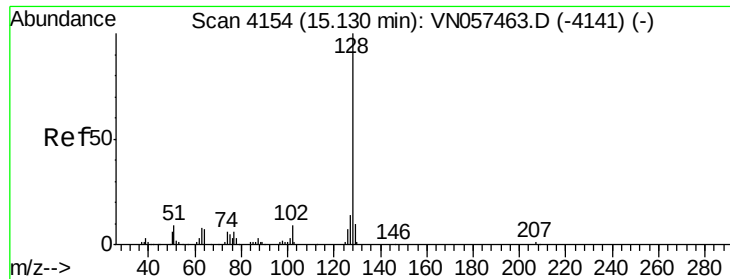
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#90
 Hexachlorobutadiene
 Concen: 22.331 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN057467.D
 Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	41986		
223	64.8		0.0	123.6
227	61.2		0.0	126.6





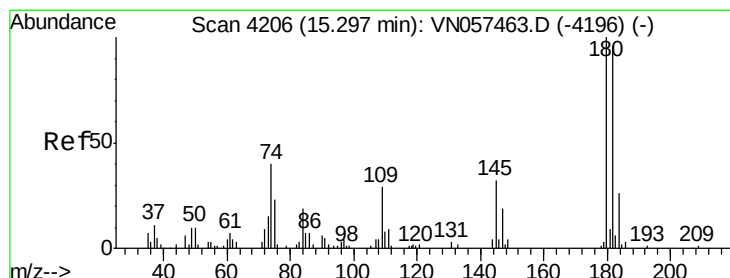
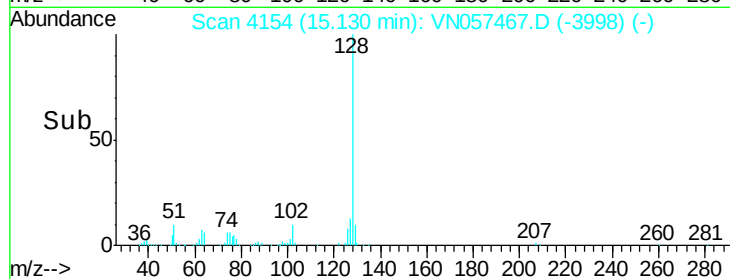
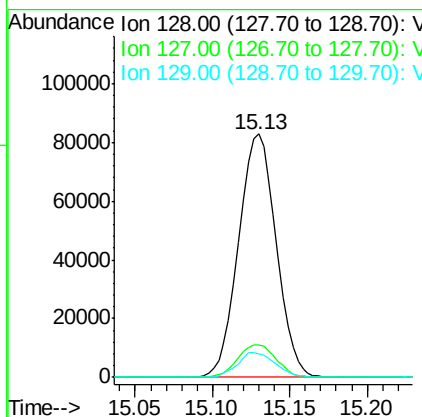
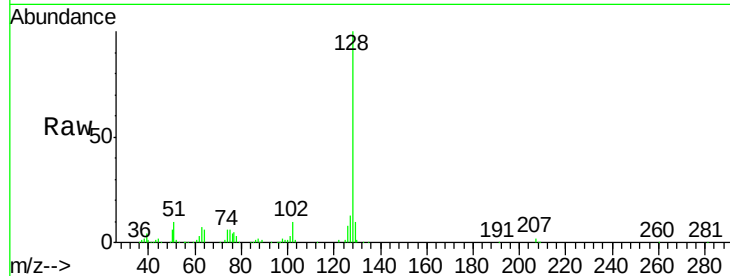
#91
Naphthalene
Concen: 21.656 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Instrument :
MSVOA_N
ClientSampleId :
ICVVN082319

Tot Ion	Ratio	Resp	Lower	Upper
128	100	140428		
127	13.6		10.1	15.1
129	10.2		8.6	13.0

Manual Integrations
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#92
1,2,3-Trichlorobenzene
Concen: 18.878 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN057467.D
Acq: 23 Aug 2019 11:53

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	46167		
182	93.5		0.0	187.0
145	33.6		0.0	64.4

