

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121918\
 Data File : VN053027.D
 Acq On : 19 Dec 2018 23:16
 Operator : MD\SY
 Sample : VN1219MBSD02
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 34 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Manual Integrations
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 12/20/2018 4:58:56 PM

Quant Time: Dec 20 06:55:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1083760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1671351	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1479755	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	667204	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	568538	51.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.38%	
35) Dibromofluoromethane	7.59	113	443734	58.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	116.24%	
50) Toluene-d8	10.09	98	2084412	50.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.40	95	702711	48.84	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.68%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	212744	19.396	ug/l	98
3) Chloromethane	2.06	50	261197	19.651	ug/l	100
4) Vinyl Chloride	2.19	62	264760	19.668	ug/l	100
5) Bromomethane	2.58	94	174295	18.688	ug/l	99
6) Chloroethane	2.71	64	159379	19.991	ug/l	99
7) Trichlorofluoromethane	3.03	101	335877	20.029	ug/l	99
8) Diethyl Ether	3.41	74	128266	20.275	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.77	101	210909	19.726	ug/l	99
10) Methyl Iodide	3.96	142	296637	19.756	ug/l	99
11) Tert butyl alcohol	4.77	59	64713	96.434	ug/l	100
12) 1,1-Dichloroethene	3.74	96	205682	19.912	ug/l	97
13) Acrolein	3.61	56	66096	108.625	ug/l	98
14) Allyl chloride	4.33	41	331088	20.693	ug/l	94
15) Acrylonitrile	4.99	53	372240	99.848	ug/l	100
16) Acetone	3.82	43	228079	105.769	ug/l	94
17) Carbon Disulfide	4.06	76	588965	17.483	ug/l	100
18) Methyl Acetate	4.32	43	189515	19.971	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	564945	20.437	ug/l	99
20) Methylene Chloride	4.55	84	234445	19.931	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	219240	19.754	ug/l	99
22) Diisopropyl ether	5.95	45	711500	20.833	ug/l	97
23) Vinyl Acetate	5.90	43	2056668	104.724	ug/l	99
24) 1,1-Dichloroethane	5.85	63	413634	20.382	ug/l	99
25) 2-Butanone	6.83	43	378354	104.548	ug/l	99
26) 2,2-Dichloropropane	6.83	77	261400	16.873	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	253166	20.149	ug/l	97
28) Bromochloromethane	7.19	49	190421	21.653	ug/l	95
29) Tetrahydrofuran	7.21	42	275441	101.907	ug/l	98
30) Chloroform	7.37	83	406603	20.395	ug/l	99
31) Cyclohexane	7.66	56	384274	19.549	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	334547	19.699	ug/l	99
36) 1,1-Dichloropropene	7.79	75	312199	19.461	ug/l	100
37) Ethyl Acetate	6.93	43	185635	20.729	ug/l	99
38) Carbon Tetrachloride	7.77	117	290435	19.752	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	356694	18.303	ug/l	97
40) Benzene	8.04	78	957768	20.072	ug/l	99
41) Methacrylonitrile	7.17	41	98948	19.123	ug/l	99
42) 1,2-Dichloroethane	8.12	62	281443	19.966	ug/l	99
43) Isopropyl Acetate	8.16	43	353344	19.757	ug/l	99
44) Trichloroethene	8.84	130	264765	19.184	ug/l	99
45) 1,2-Dichloropropane	9.12	63	254270	20.458	ug/l	99
46) Dibromomethane	9.21	93	144387	19.942	ug/l	98
47) Bromodichloromethane	9.40	83	301455	19.587	ug/l	99
48) Methyl methacrylate	9.20	41	172232	19.819	ug/l	99
49) 1,4-Dioxane	9.20	88	41003	373.004	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	891260	102.766	ug/l	98
52) Toluene	10.16	92	586527	19.831	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	300970	18.597	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	353684	19.039	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	205841	19.949	ug/l	98
56) Ethyl methacrylate	10.43	69	270072	19.775	ug/l	98
57) 1,3-Dichloropropane	10.71	76	355694	20.103	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	761158	101.519	ug/l	98
59) 2-Hexanone	10.75	43	590809	100.687	ug/l	99
60) Dibromochloromethane	10.90	129	224566	19.013	ug/l	100
61) 1,2-Dibromoethane	11.01	107	206303	19.687	ug/l	98
64) Tetrachloroethene	10.63	164	297719	18.574	ug/l	99
65) Chlorobenzene	11.43	112	650576	19.833	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	225548	19.773	ug/l	99
67) Ethyl Benzene	11.51	91	1107533	19.633	ug/l	99
68) m/p-Xylenes	11.62	106	849822	39.628	ug/l	98
69) o-Xylene	11.95	106	413132	20.076	ug/l	99
70) Styrene	11.96	104	670573	19.984	ug/l	100
71) Bromoform	12.13	173	151975	18.443	ug/l #	99
73) Isopropylbenzene	12.25	105	1093899	20.955	ug/l	100
74) N-amyl acetate	12.07	43	298523	20.597	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	225303	21.999	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	201256m	17.919	ug/l	
77) Bromobenzene	12.53	156	278224	20.503	ug/l	98
78) n-propylbenzene	12.59	91	1208708	20.330	ug/l	100
79) 2-Chlorotoluene	12.67	91	722493	19.605	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	863424	20.292	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	62075	17.813	ug/l	99
82) 4-Chlorotoluene	12.77	91	733198	20.324	ug/l	100
83) tert-Butylbenzene	12.99	119	756005	20.090	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	870498	20.351	ug/l	100
85) sec-Butylbenzene	13.17	105	989256	19.435	ug/l	99
86) p-Isopropyltoluene	13.29	119	854511	19.429	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	474250	19.746	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	462914	19.033	ug/l	99
89) n-Butylbenzene	13.62	91	672497	17.773	ug/l	100
90) Hexachloroethane	13.88	117	124554	18.454	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	447062	19.778	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	33381	18.851	ug/l	99

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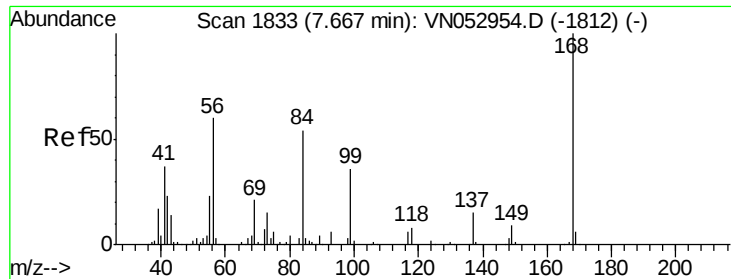
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	217266	18.522	ug/l	99
94) Hexachlorobutadiene	15.01	225	131638	19.477	ug/l	99
95) Naphthalene	15.13	128	473922	18.798	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	198585	18.736	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

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VN1219MBSD02

Tgt Ion:168 Resp: 1083760

Ion Ratio Lower Upper

168 100

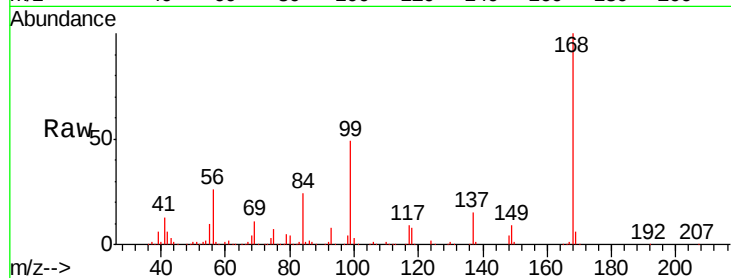
99 48.8 40.2 60.2

Manual Integrations

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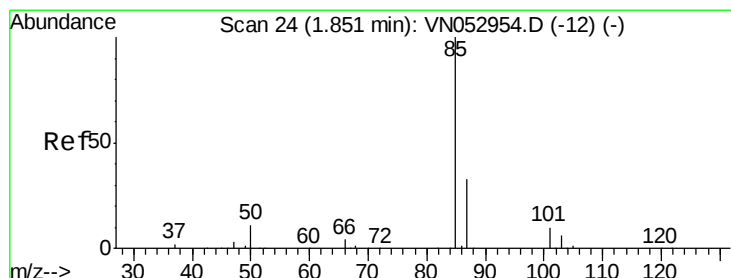
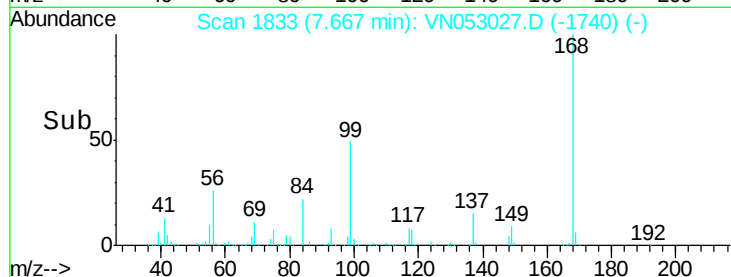
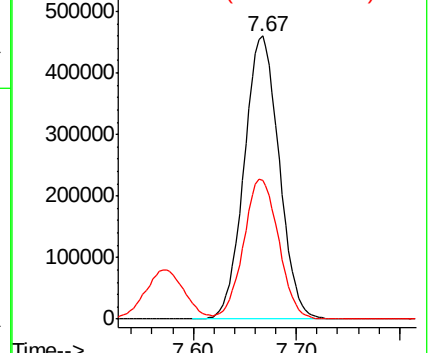
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 19.396 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN053027.D

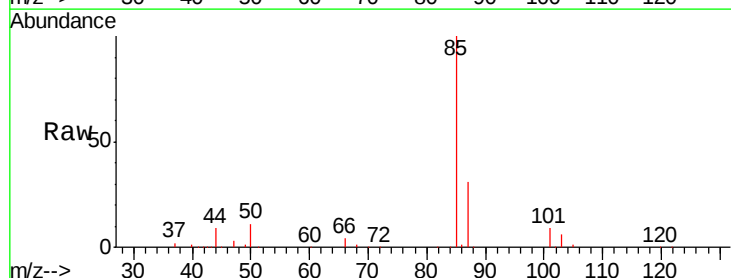
Acq: 19 Dec 2018 23:16

Tgt Ion: 85 Resp: 212744

Ion Ratio Lower Upper

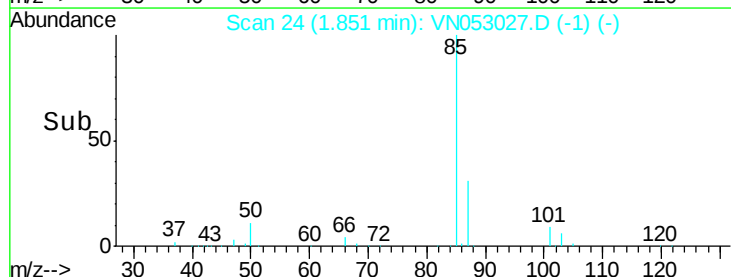
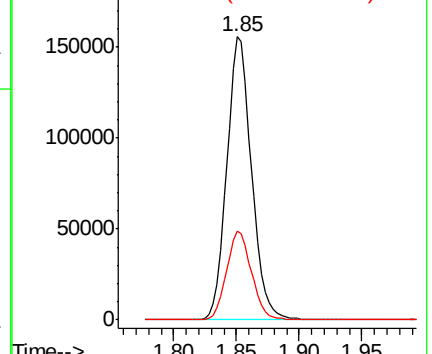
85 100

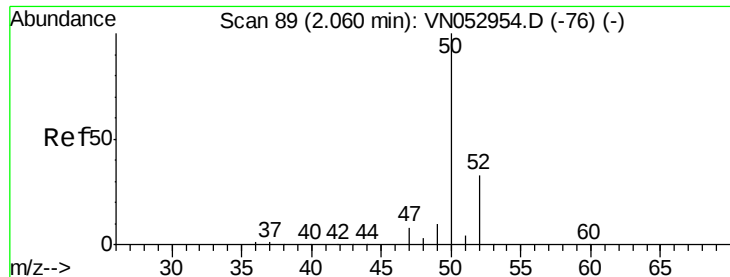
87 31.4 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 19.651 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 50 Resp: 261197

Ion Ratio Lower Upper

50 100

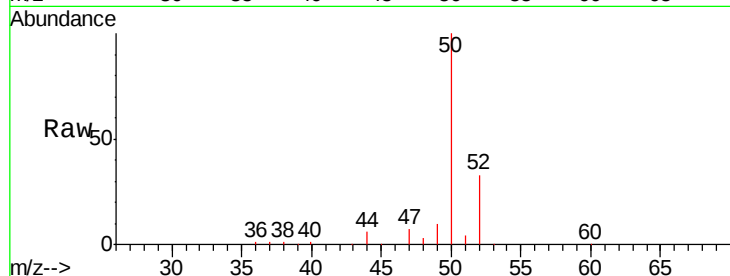
52 32.6 26.2 39.4

Manual Integrations

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Abundance Ion 49.90 (49.60 to 50.60): VN053027.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN053027.D (-1) (-)

2.06

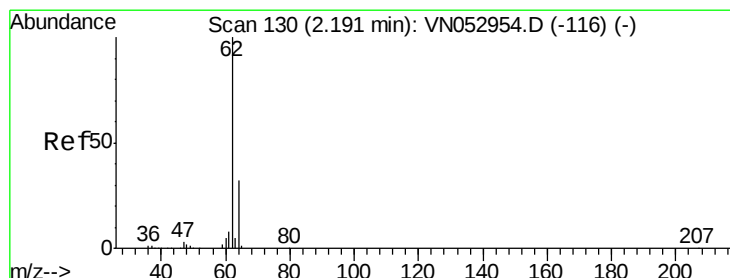
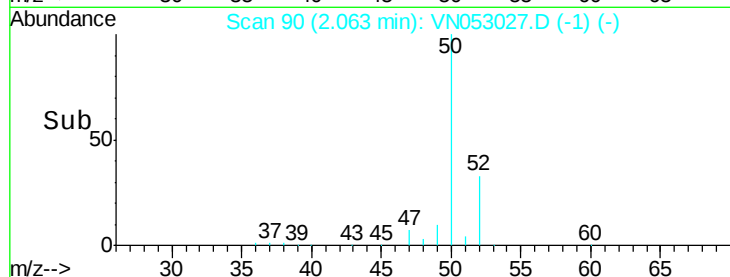
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 19.668 ug/l

RT: 2.19 min Scan# 130

Delta R.T. -0.00 min

Lab File: VN053027.D

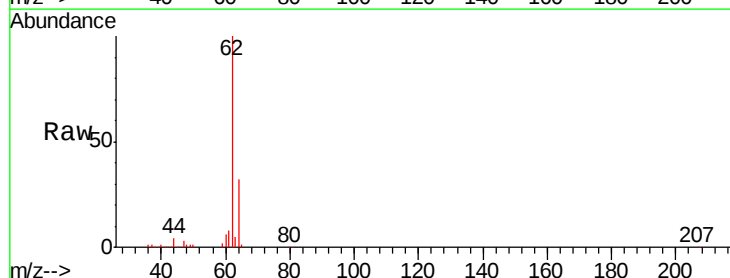
Acq: 19 Dec 2018 23:16

Tgt Ion: 62 Resp: 264760

Ion Ratio Lower Upper

62 100

64 31.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VN053027.D (-37) (-)

Ion 63.90 (63.60 to 64.60): VN053027.D (-37) (-)

2.19

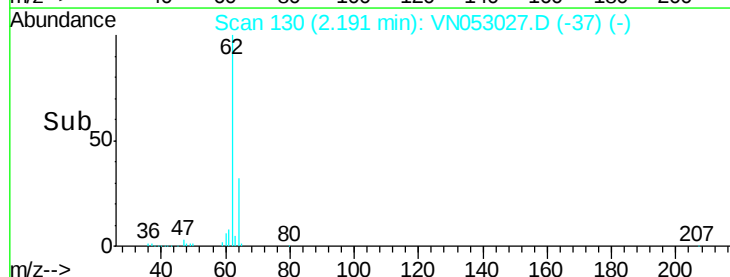
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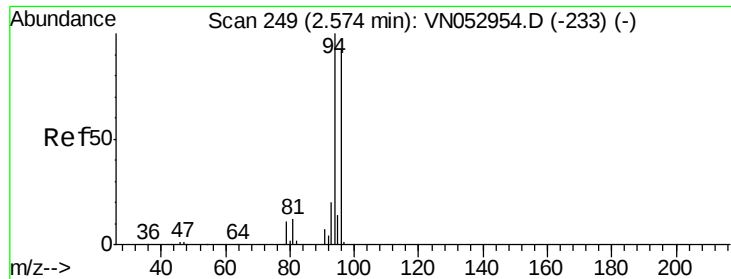
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50000

0

Time-->





#5

Bromomethane

Concen: 18.688 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

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ClientSampleId :

VN1219MBSD02

Tgt Ion: 94 Resp: 174295

Ion Ratio Lower Upper

94 100

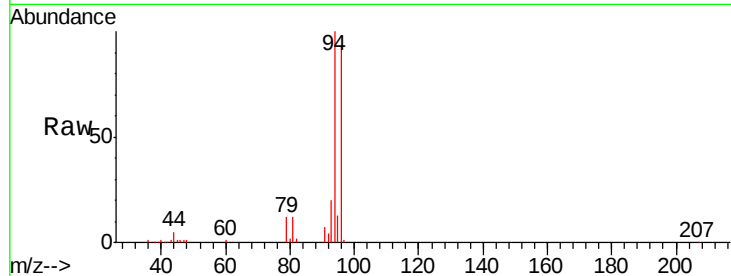
96 92.9 75.0 112.4

Manual Integrations

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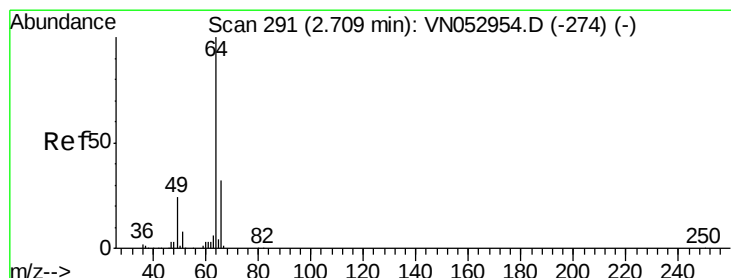
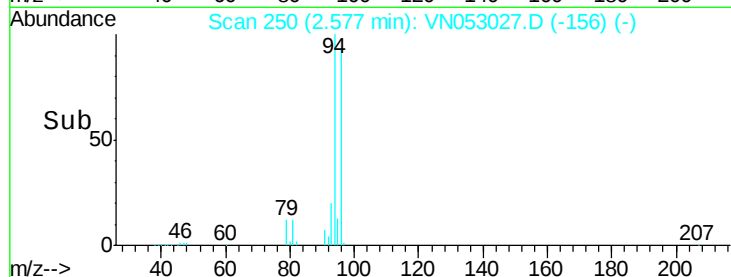
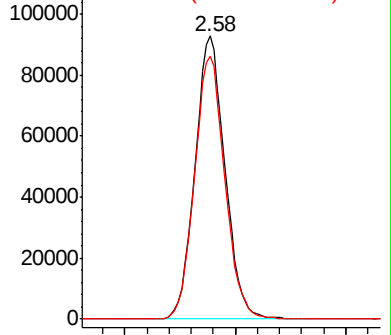
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.991 ug/l

RT: 2.71 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN053027.D

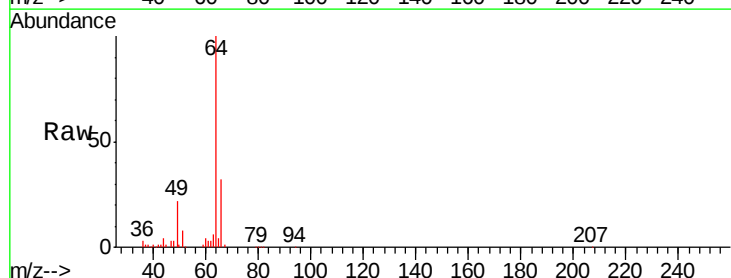
Acq: 19 Dec 2018 23:16

Tgt Ion: 64 Resp: 159379

Ion Ratio Lower Upper

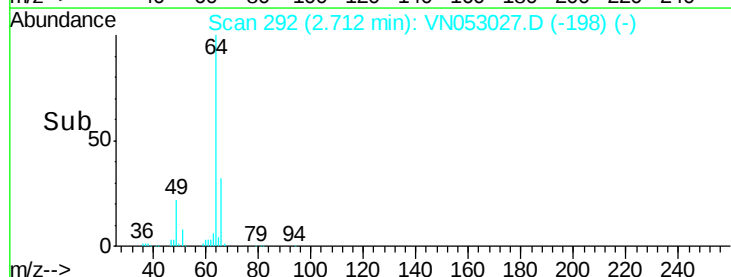
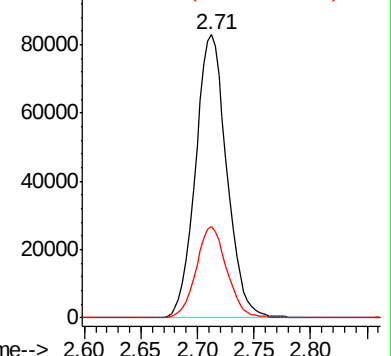
64 100

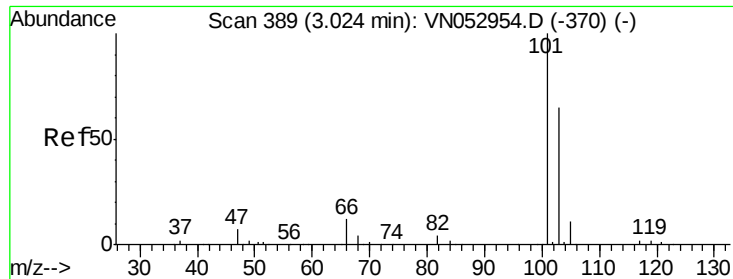
66 32.3 26.2 39.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

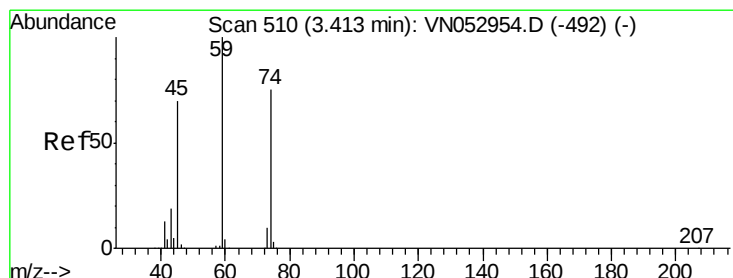
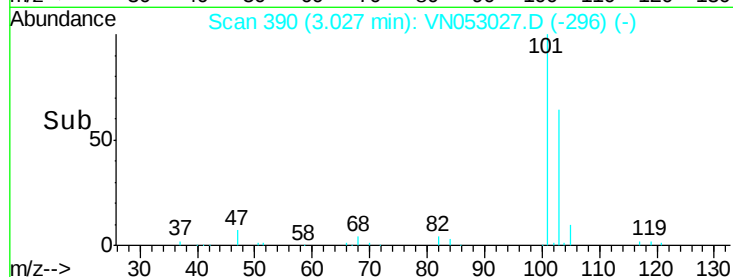
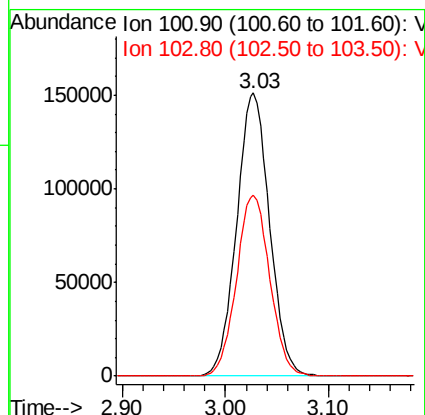
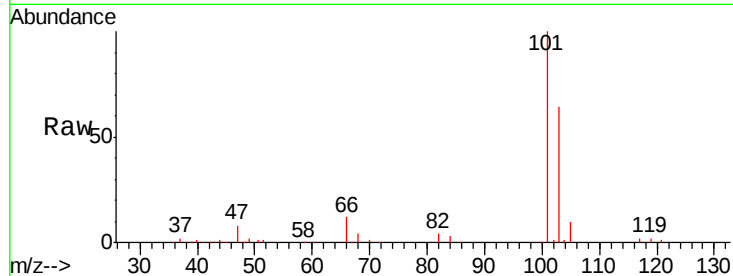
Trichlorofluoromethane
Concen: 20.029 ug/l
RT: 3.03 min Scan# 390
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

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Tgt Ion:101 Resp: 335877
Ion Ratio Lower Upper
101 100
103 63.9 51.8 77.6

Manual Integrations
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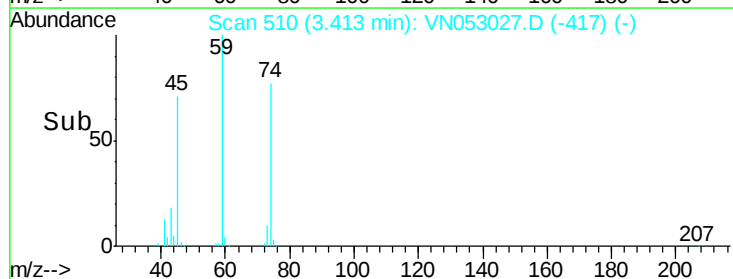
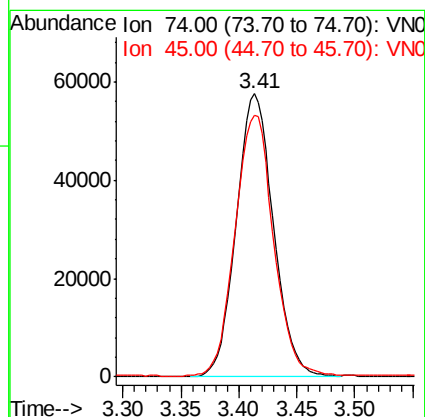
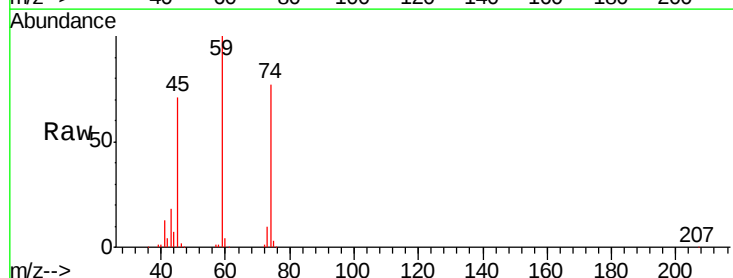
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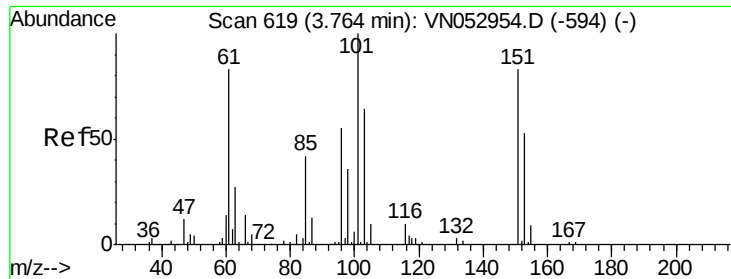


#8

Diethyl Ether
Concen: 20.275 ug/l
RT: 3.41 min Scan# 510
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion: 74 Resp: 128266
Ion Ratio Lower Upper
74 100
45 96.4 49.4 148.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.726 ug/l

RT: 3.77 min Scan# 620

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

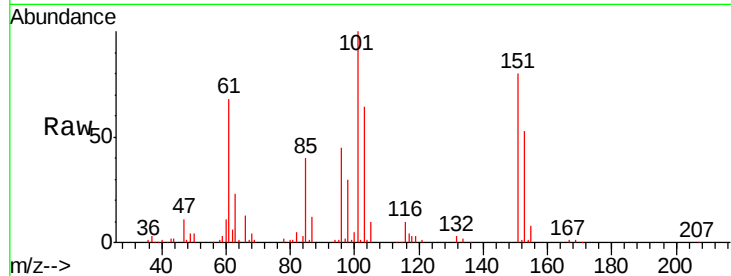
ClientSampleId :

VN1219MBSD02

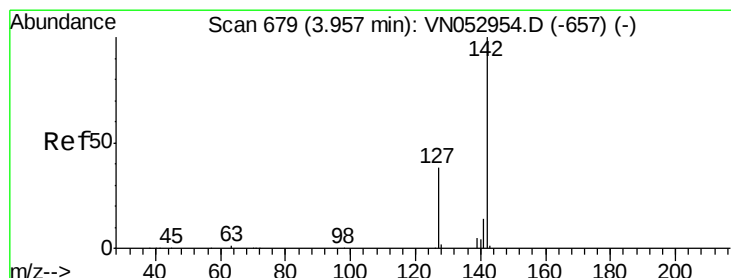
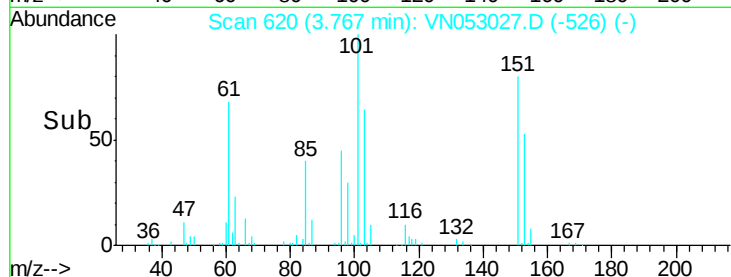
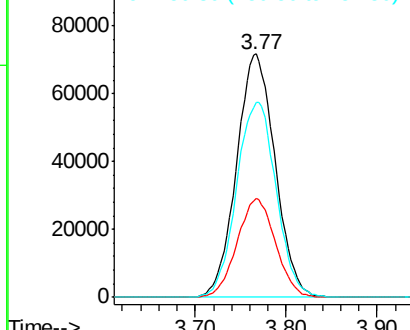
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	210909		
85	40.4	33.6	50.4	
151	82.5	65.5	98.3	

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.756 ug/l

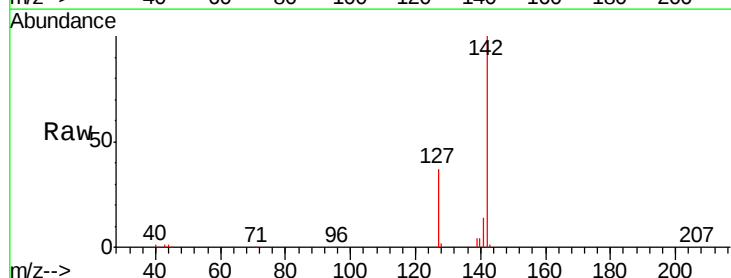
RT: 3.96 min Scan# 680

Delta R.T. 0.00 min

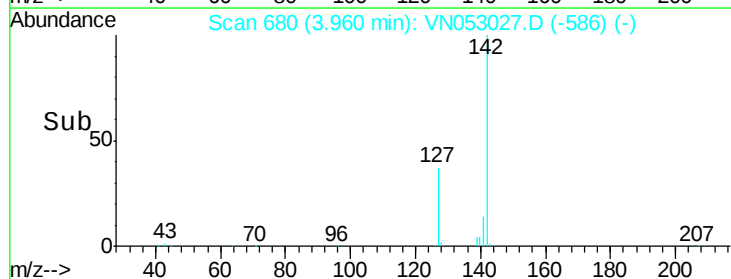
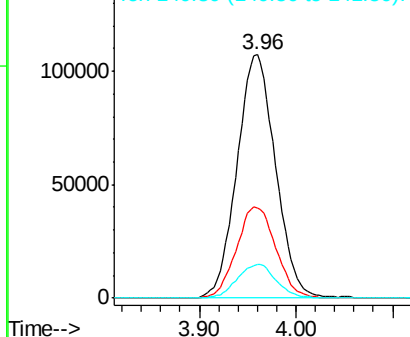
Lab File: VN053027.D

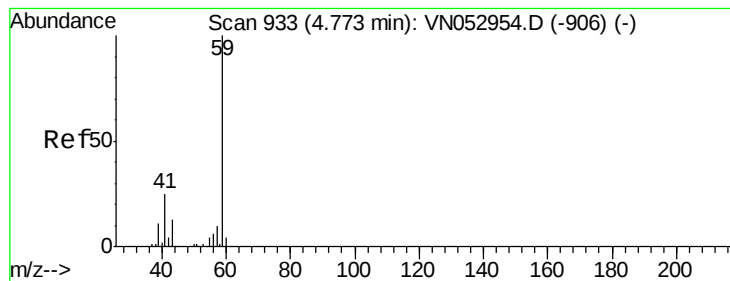
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	296637		
127	38.4	31.0	46.6	
141	14.1	11.2	16.8	



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

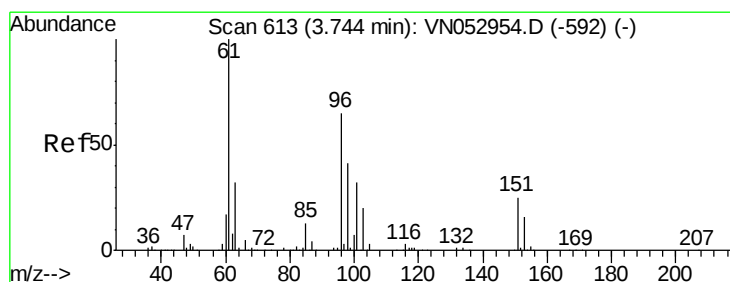
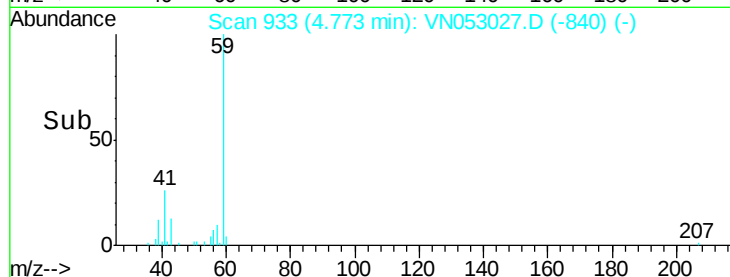
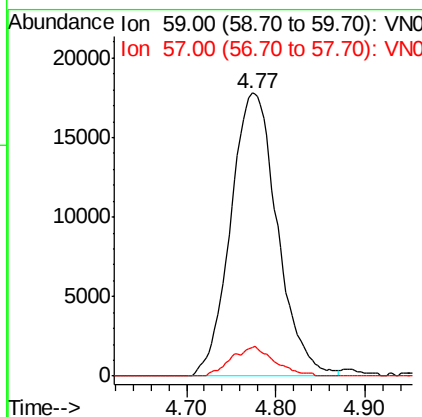
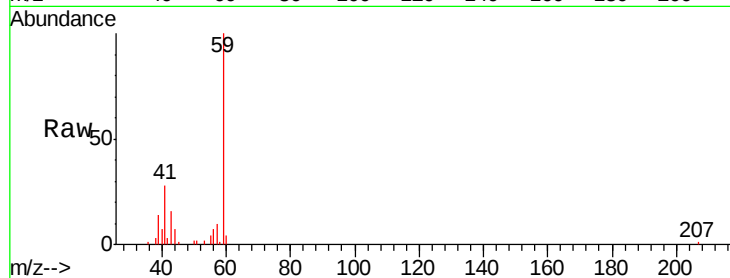
Tert butyl alcohol
Concen: 96.434 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.7	11.5

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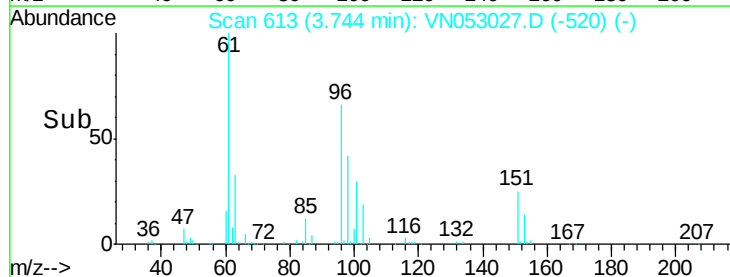
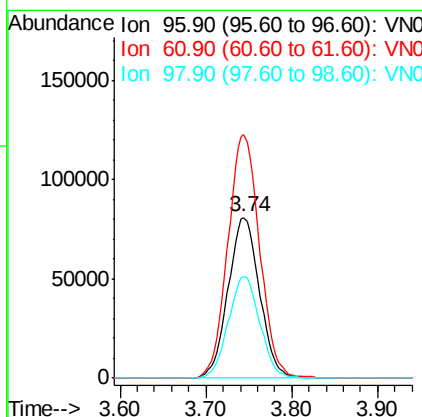
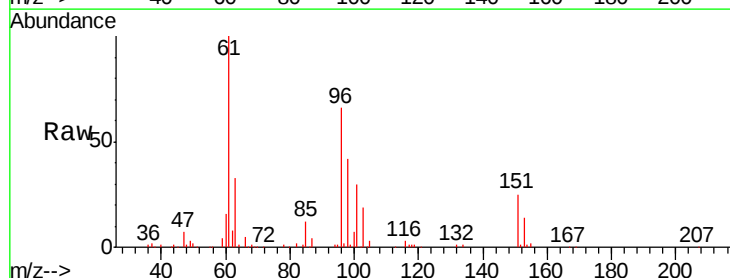
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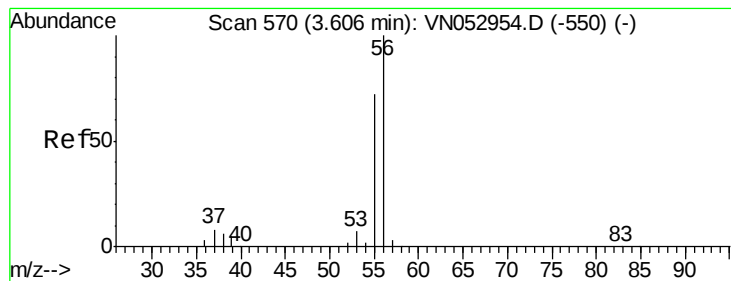


#12

1,1-Dichloroethene
Concen: 19.912 ug/l
RT: 3.74 min Scan# 613
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.2	125.6	188.4
98	63.4	50.6	75.8





#13

Acrolein

Concen: 108.625 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 56 Resp: 66096

Ion Ratio Lower Upper

56 100

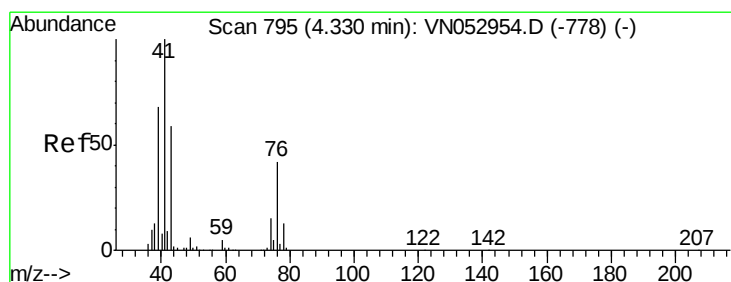
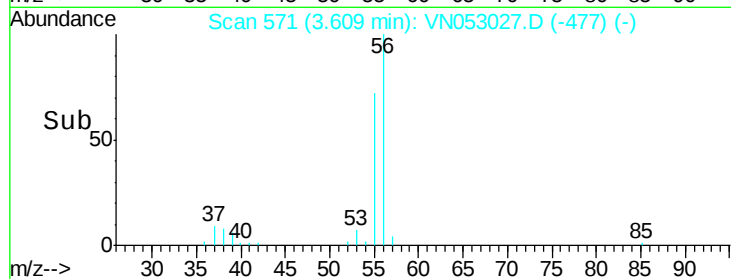
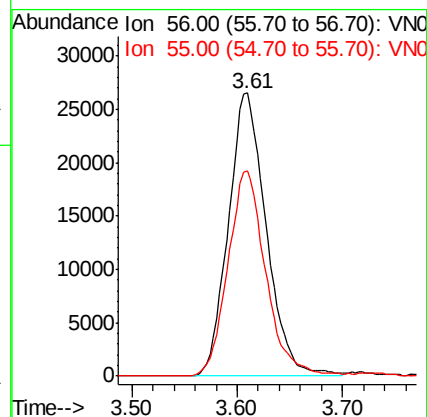
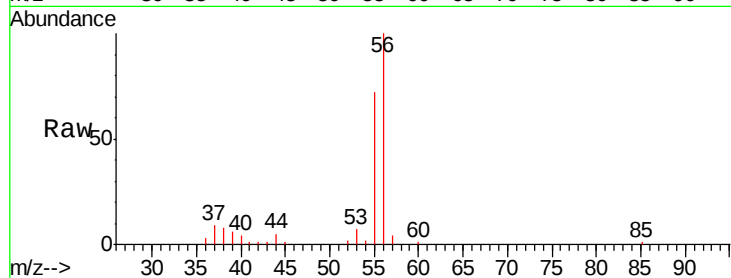
55 72.5 56.6 85.0

Manual Integrations

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#14

Allyl chloride

Concen: 20.693 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

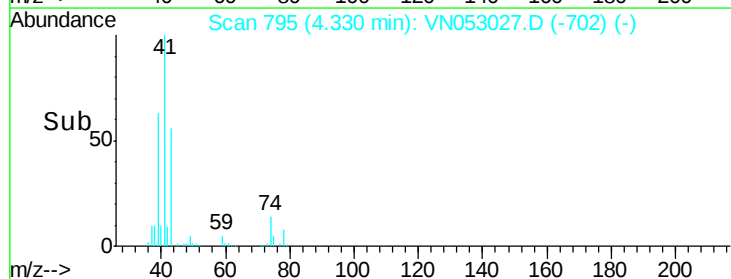
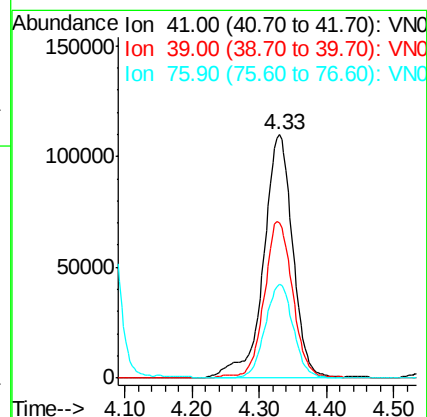
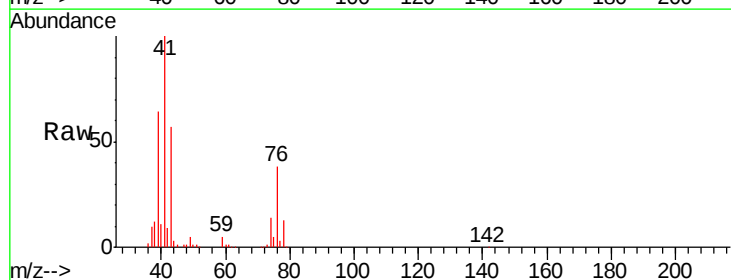
Tgt Ion: 41 Resp: 331088

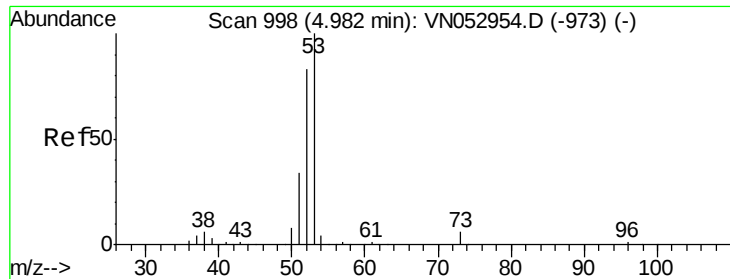
Ion Ratio Lower Upper

41 100

39 60.9 54.1 81.1

76 36.4 30.3 45.5





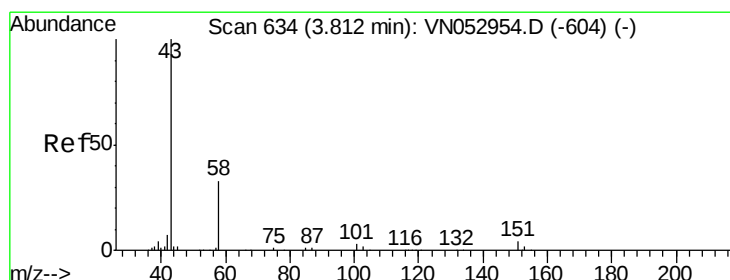
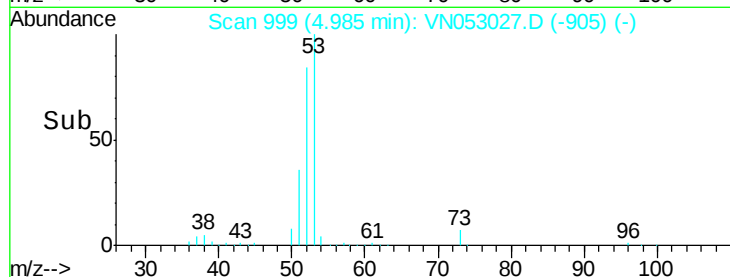
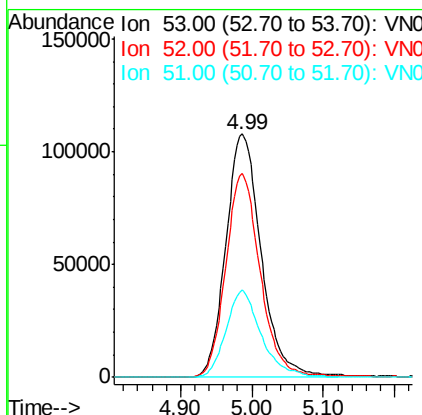
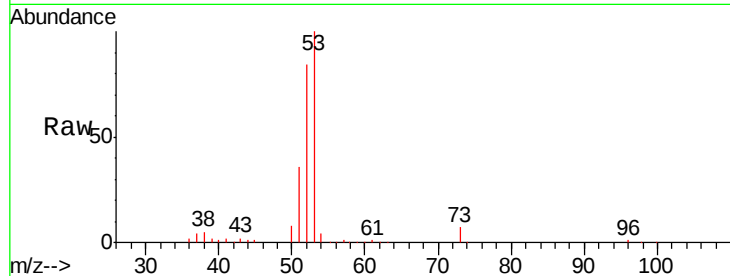
#15
Acrylonitrile
Concen: 99.848 ug/l
RT: 4.99 min Scan# 999
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS02

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.5	65.1	97.7
51	35.9	28.1	42.1

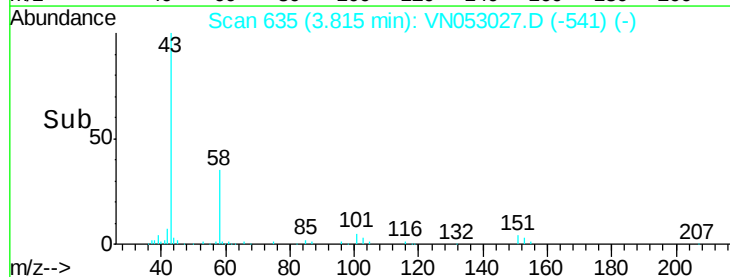
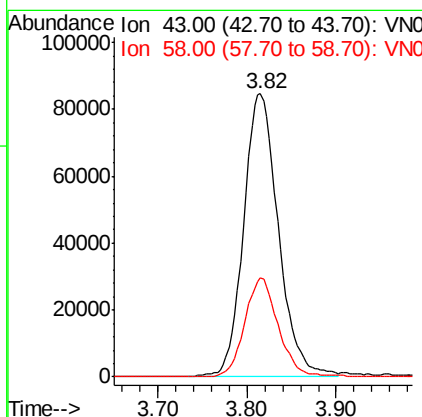
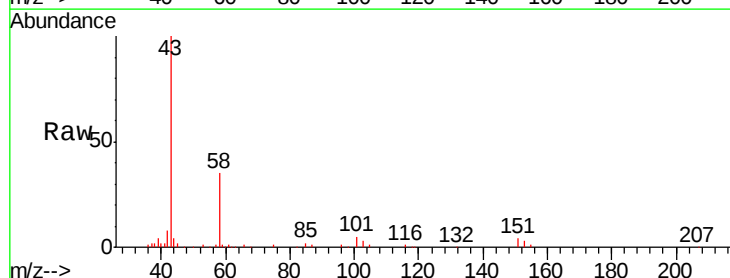
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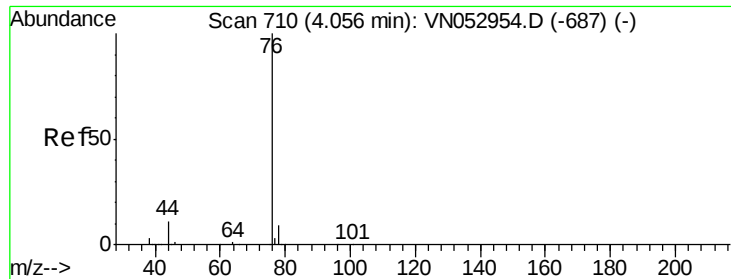
MMDadoda
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#16
Acetone
Concen: 105.769 ug/l
RT: 3.82 min Scan# 635
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.9	25.4	38.0





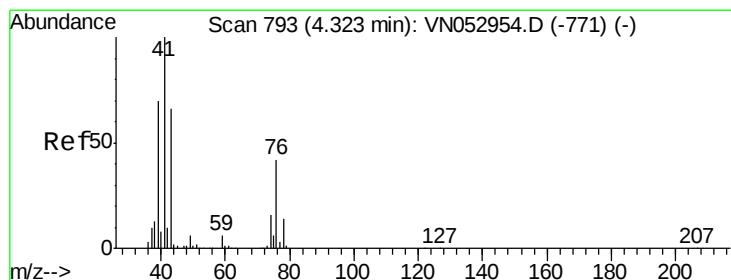
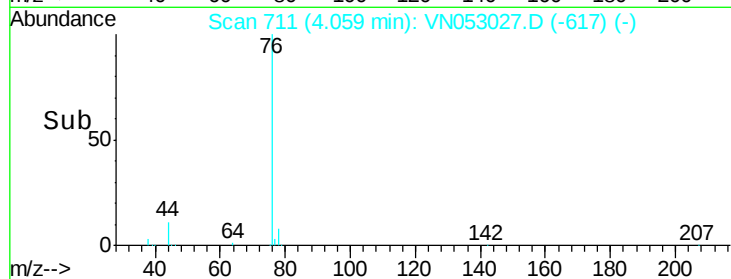
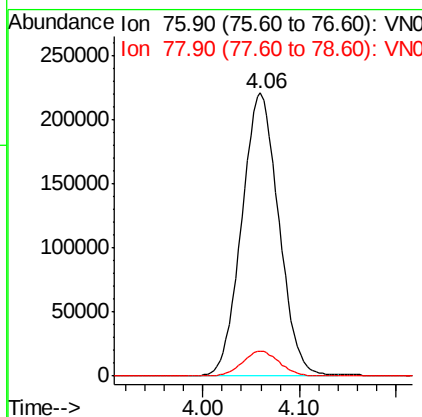
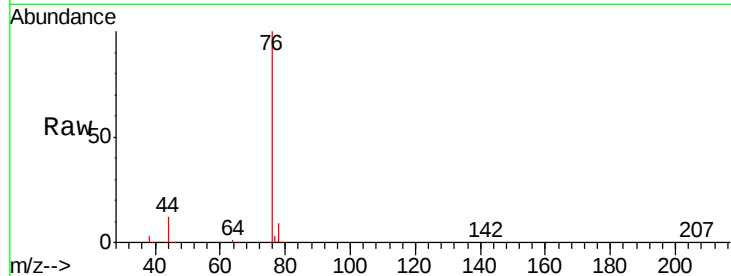
#17
Carbon Disulfide
Concen: 17.483 ug/l
RT: 4.06 min Scan# 711
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.1	10.7

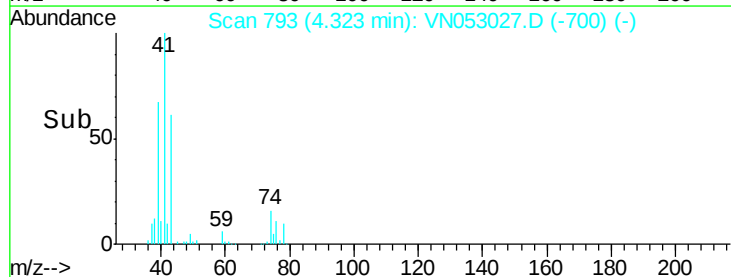
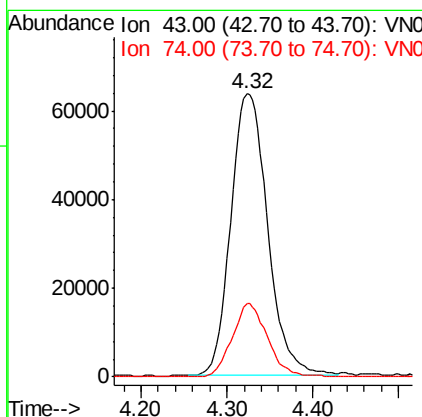
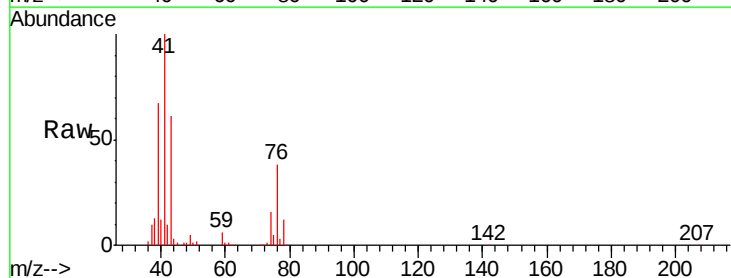
Manual Integrations
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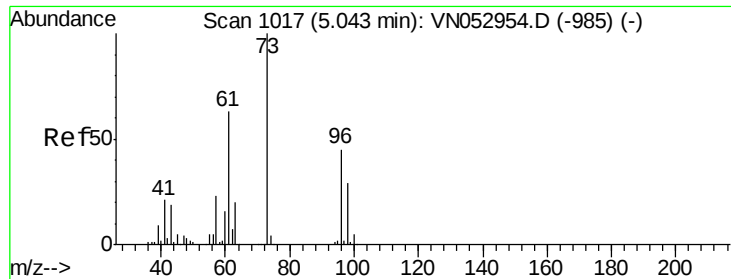
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#18
Methyl Acetate
Concen: 19.971 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.9	19.2	28.8





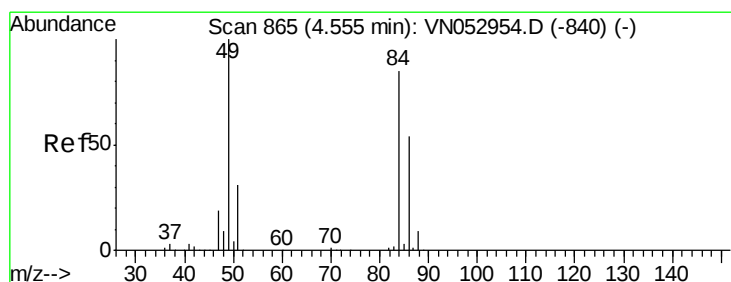
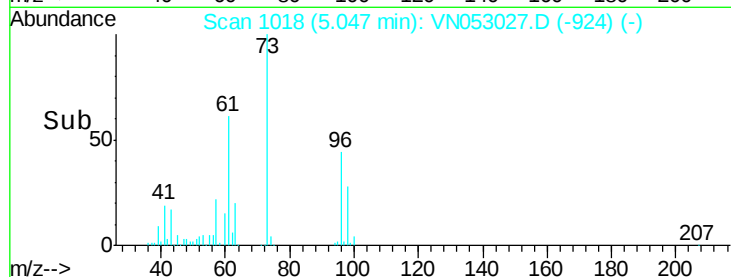
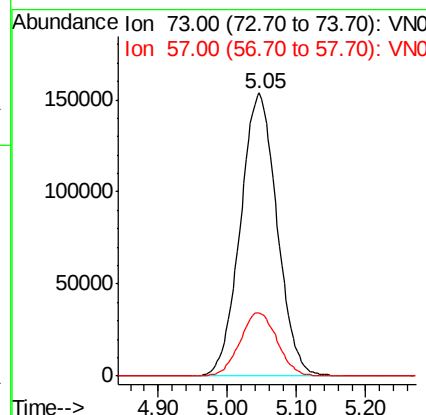
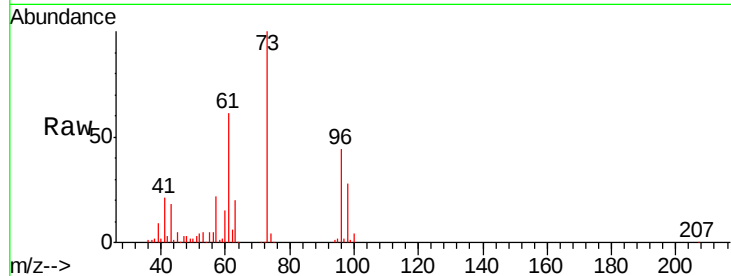
#19
Methyl tert-butyl Ether
Concen: 20.437 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion: 73 Resp: 564945
Ion Ratio Lower Upper
73 100
57 22.4 18.4 27.6

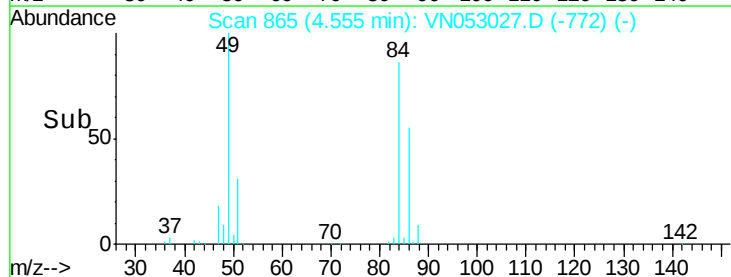
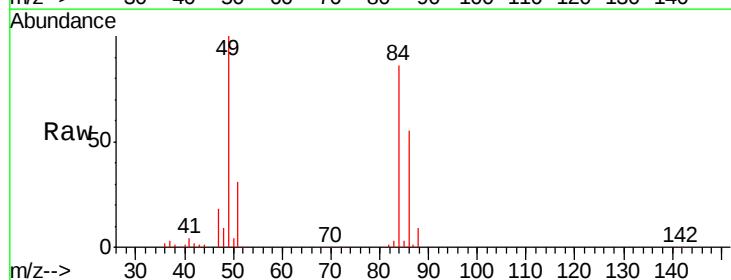
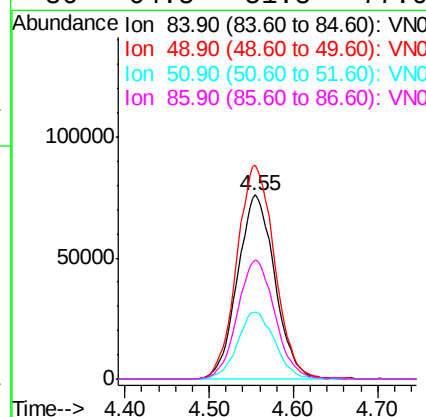
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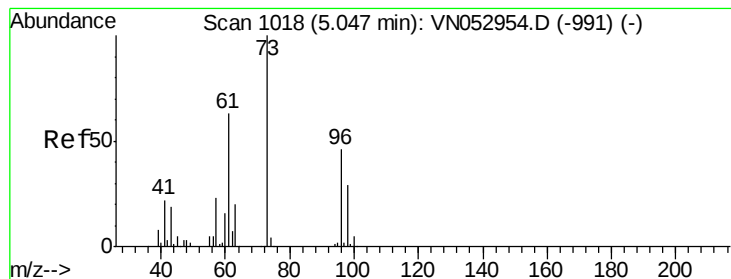
MMDadoda
12/20/2018 4:58:56 PM



#20
Methylene Chloride
Concen: 19.931 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion: 84 Resp: 234445
Ion Ratio Lower Upper
84 100
49 116.3 96.8 145.2
51 36.1 29.9 44.9
86 64.5 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 19.754 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

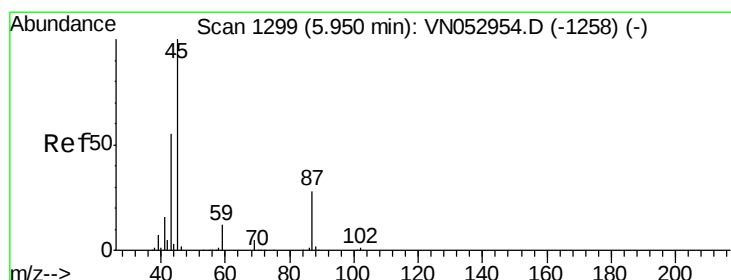
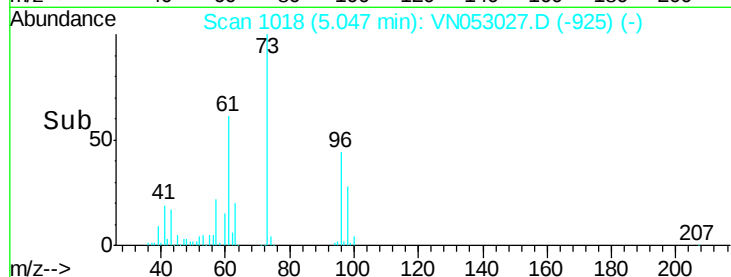
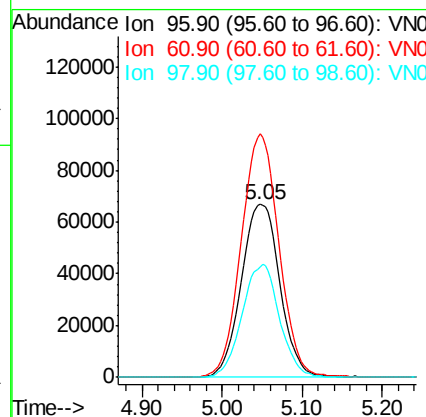
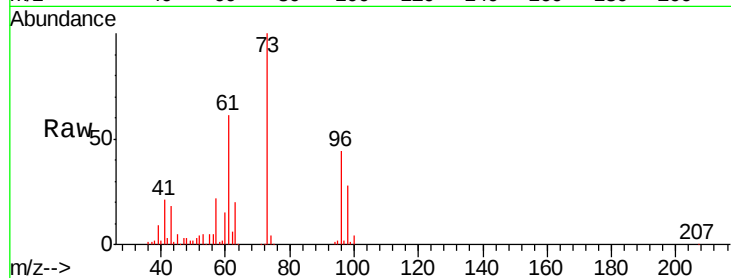
ClientSampleId :

VN1219MBSD02

Tgt Ion:	96	Resp:	219240
Ion	Ratio	Lower	Upper
96	100		
61	140.7	110.8	166.2
98	64.1	51.4	77.2

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#22

Diisopropyl ether

Concen: 20.833 ug/l

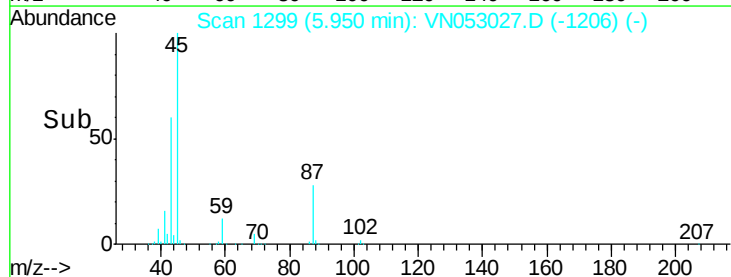
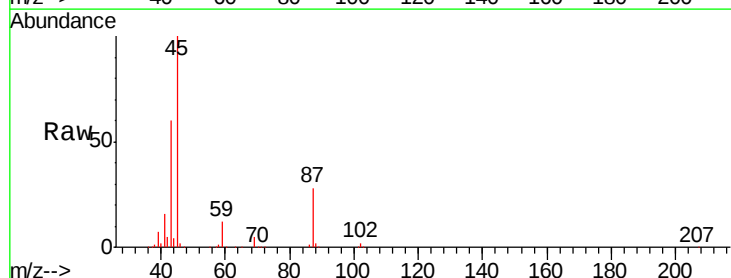
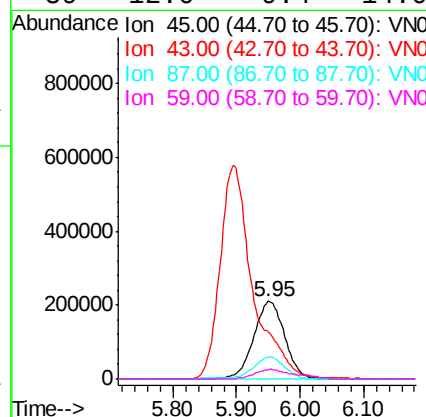
RT: 5.95 min Scan# 1299

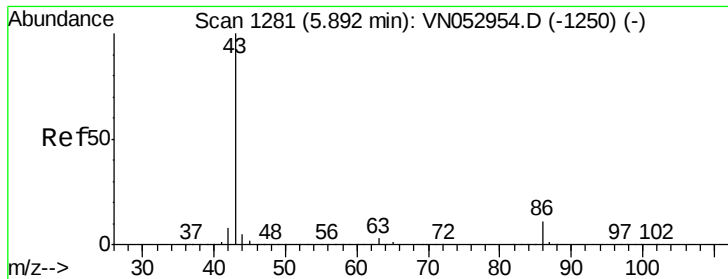
Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion:	45	Resp:	711500
Ion	Ratio	Lower	Upper
45	100		
43	59.5	45.5	68.3
87	28.3	22.0	33.0
59	12.0	9.4	14.0





#23

Vinyl Acetate

Concen: 104.724 ug/l

RT: 5.90 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 43 Resp: 2056668

Ion Ratio Lower Upper

43 100

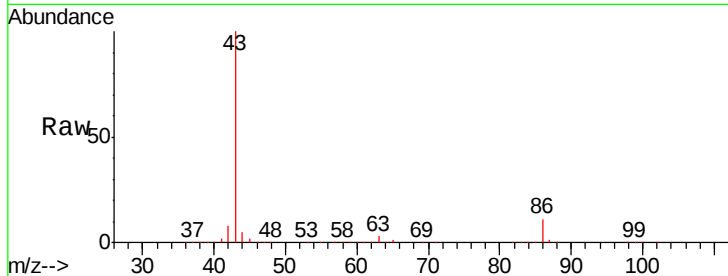
86 10.6 8.1 12.1

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.90

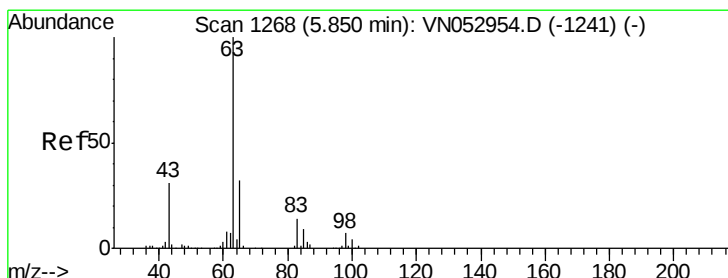
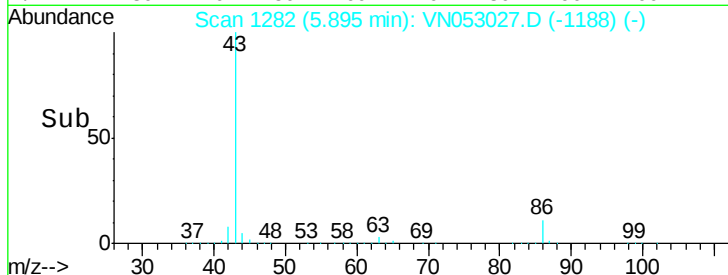
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 20.382 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

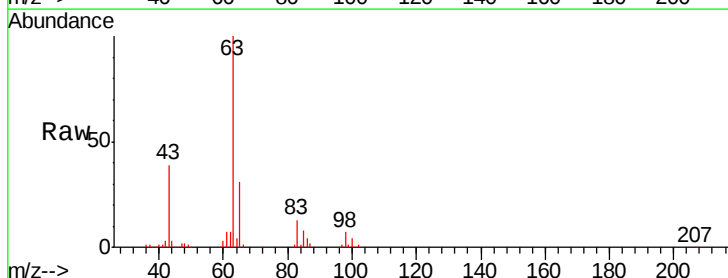
Tgt Ion: 63 Resp: 413634

Ion Ratio Lower Upper

63 100

98 6.6 3.1 9.4

100 4.1 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

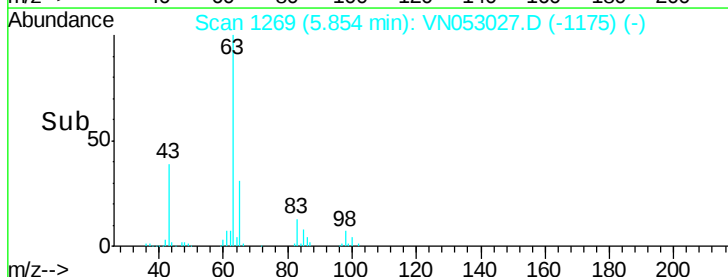
150000

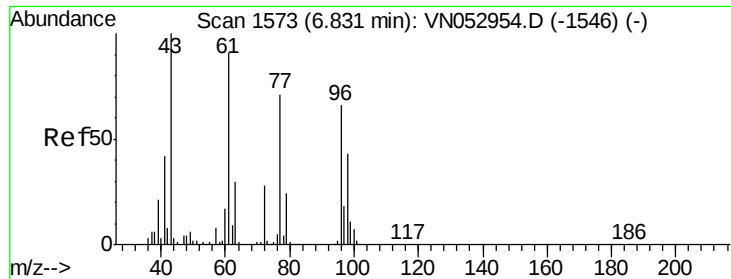
100000

50000

0

Time-->





#25

2-Butanone

Concen: 104.548 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBS02

Tgt Ion: 43 Resp: 378354

Ion Ratio Lower Upper

43 100

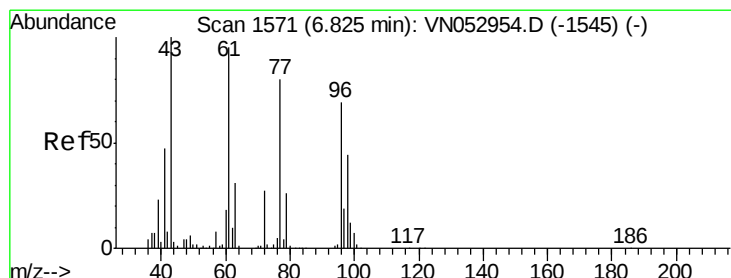
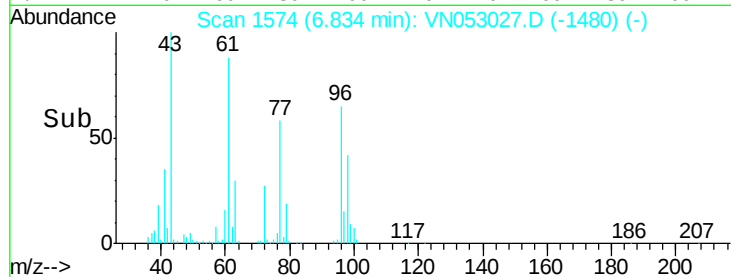
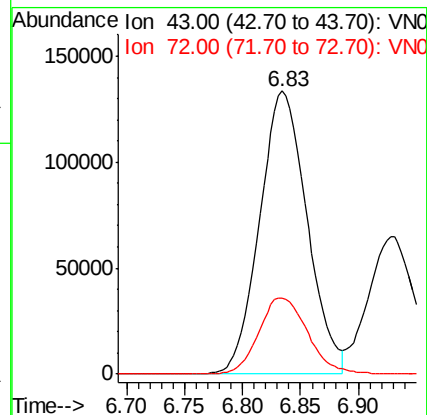
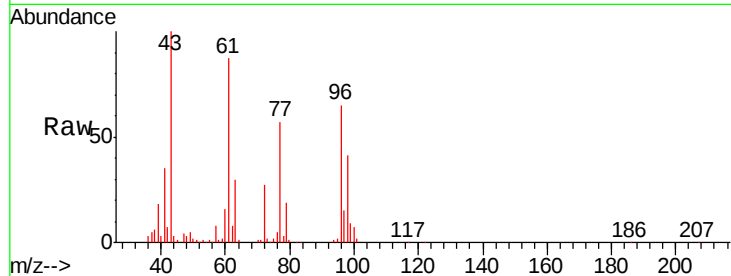
72 26.9 21.0 31.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 16.873 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN053027.D

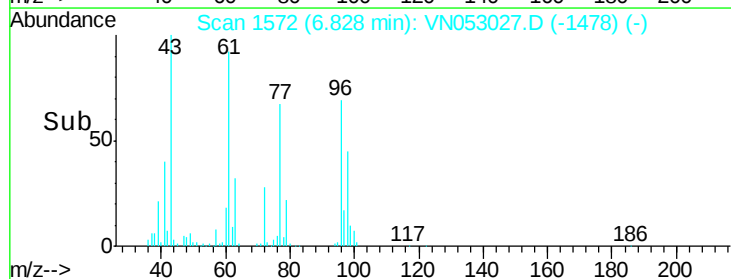
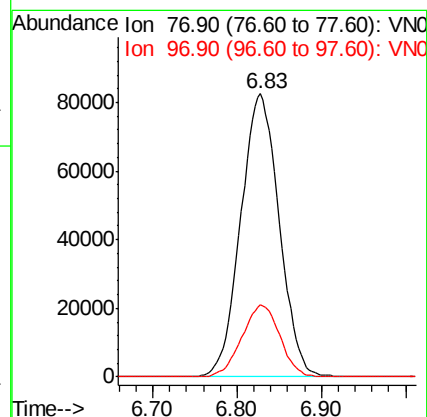
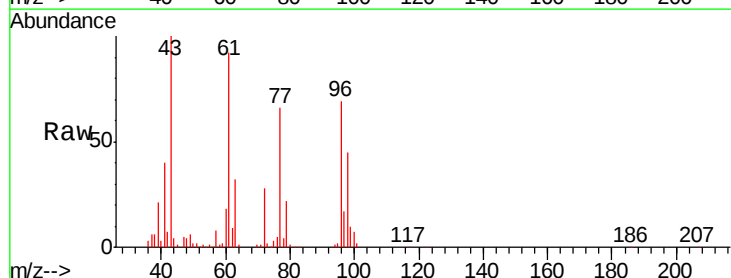
Acq: 19 Dec 2018 23:16

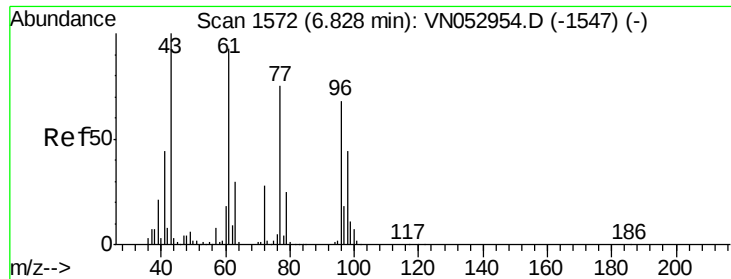
Tgt Ion: 77 Resp: 261400

Ion Ratio Lower Upper

77 100

97 25.2 11.9 35.9





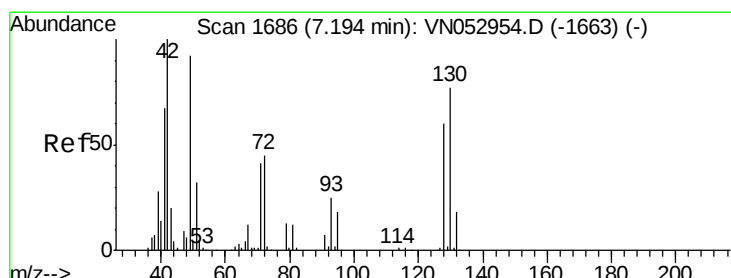
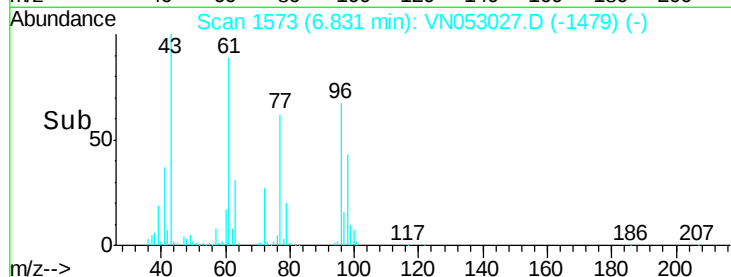
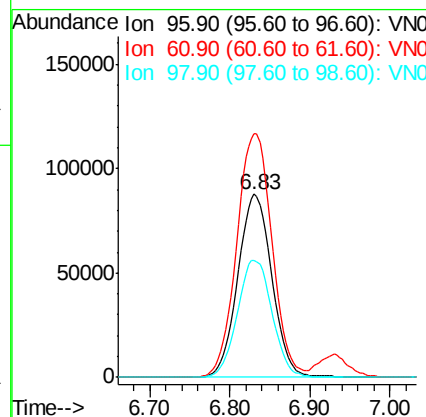
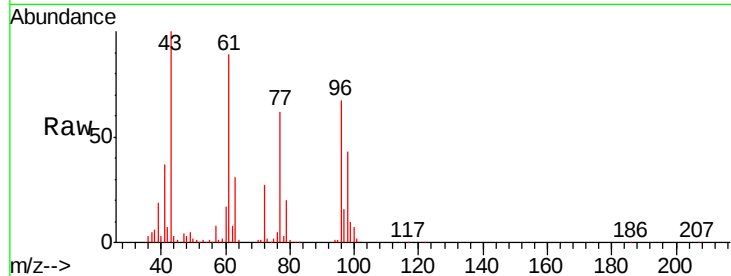
#27
 cis-1,2-Dichloroethene
 Concen: 20.149 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	253166		
61	137.7	0.0	284.2	
98	65.4	0.0	129.2	

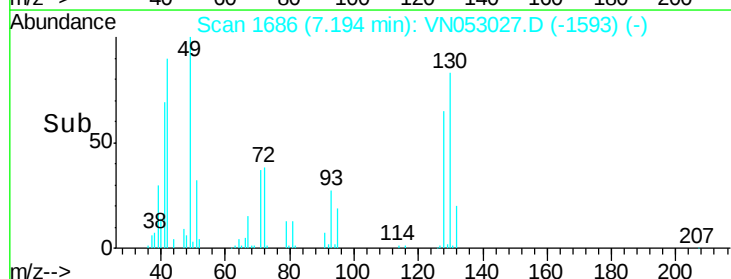
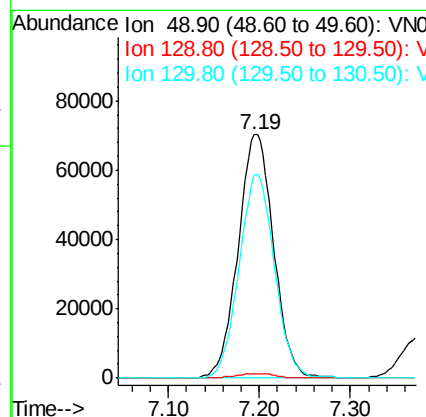
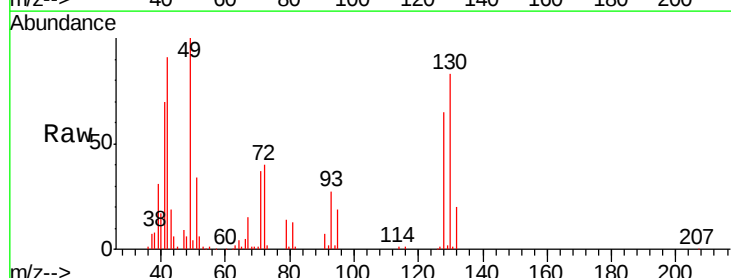
Manual Integrations
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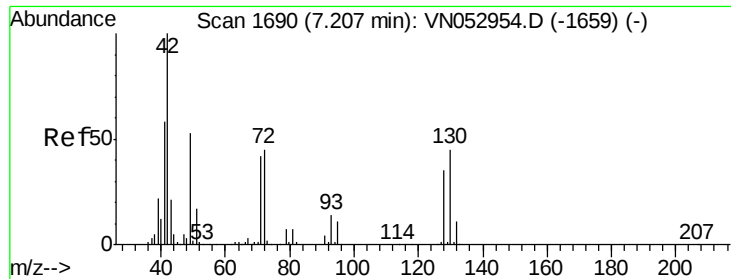
MMDadoda
 12/20/2018 4:58:56 PM



#28
 Bromochloromethane
 Concen: 21.653 ug/l
 RT: 7.19 min Scan# 1686
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	190421		
129	1.9	0.0	4.0	
130	83.3	63.3	94.9	





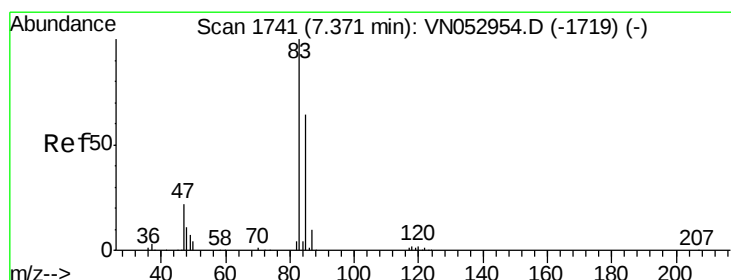
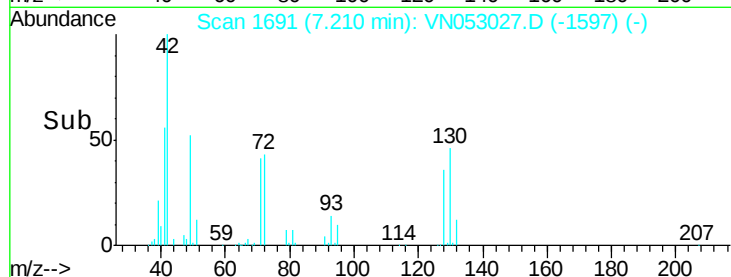
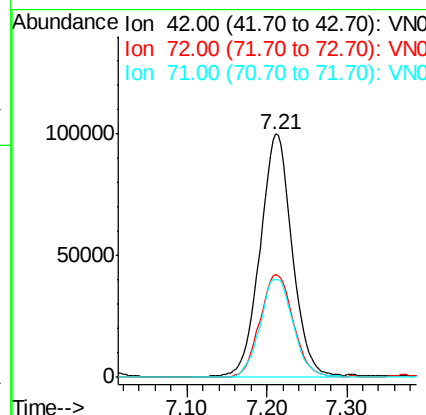
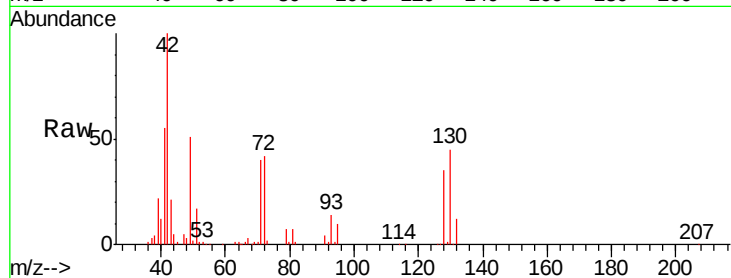
#29
Tetrahydrofuran
Concen: 101.907 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.7	52.1
71	41.9	32.3	48.5

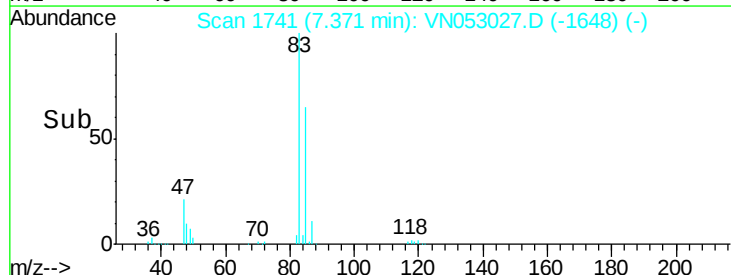
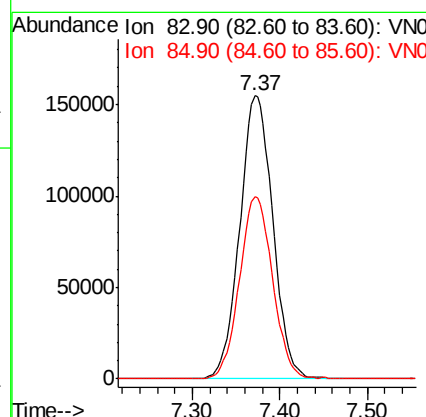
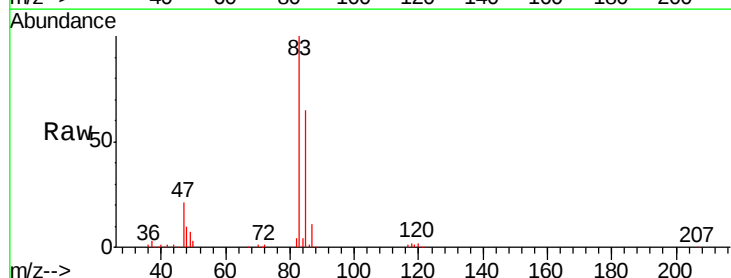
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#30
Chloroform
Concen: 20.395 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.1	78.1





#31

Cyclohexane

Concen: 19.549 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 56 Resp: 384274

Ion Ratio Lower Upper

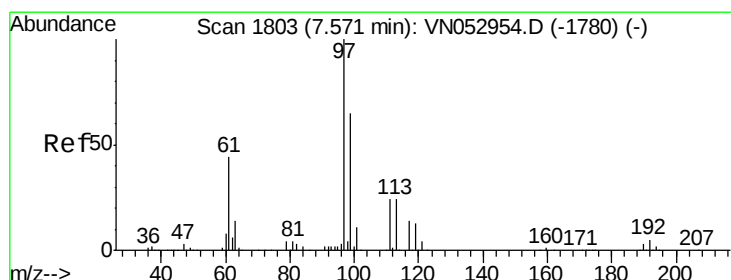
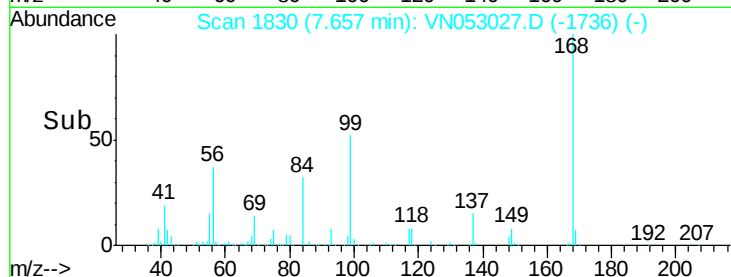
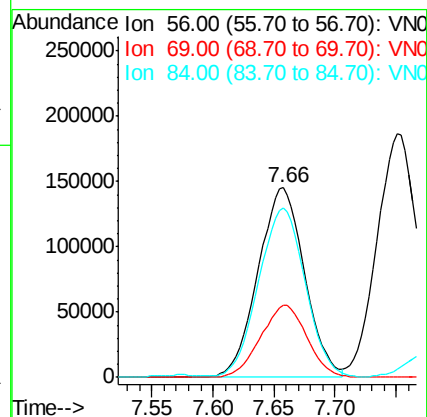
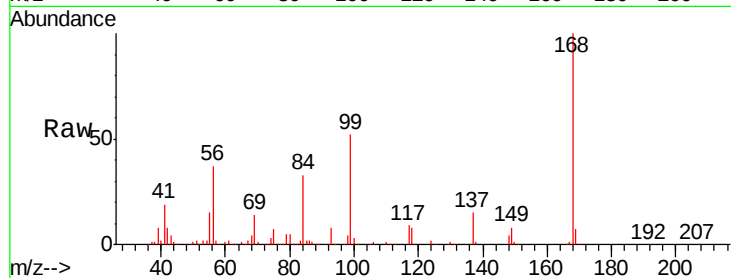
56 100

69 37.8 26.6 39.8

84 88.0 68.4 102.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.699 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

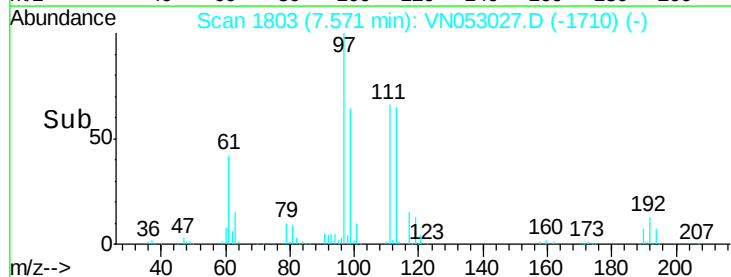
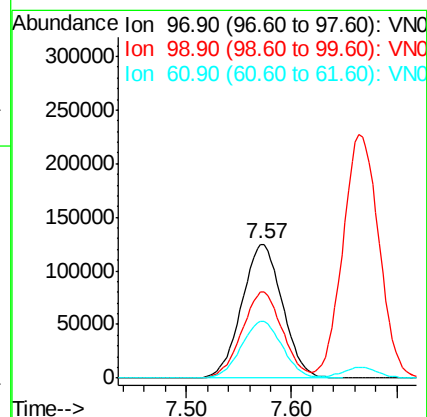
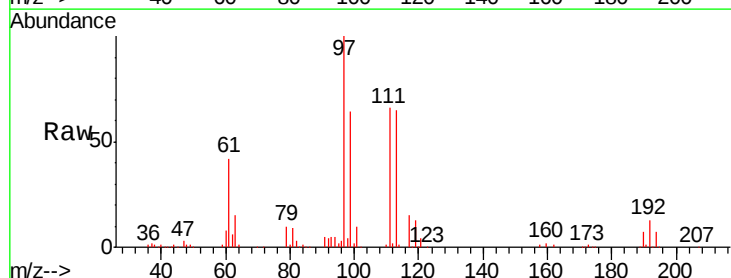
Tgt Ion: 97 Resp: 334547

Ion Ratio Lower Upper

97 100

99 64.0 51.1 76.7

61 42.6 35.0 52.6





#33

1,2-Dichloroethane-d4

Concen: 19.699 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBS02

Tgt Ion: 65 Resp: 568538

Ion Ratio Lower Upper

65 100

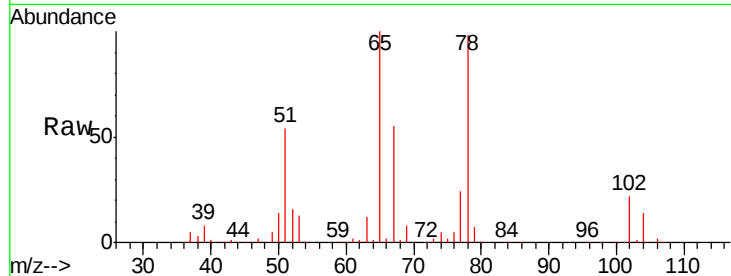
67 55.1 0.0 110.4

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN053027.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN053027.D (-1852) (-)

8.03

250000

200000

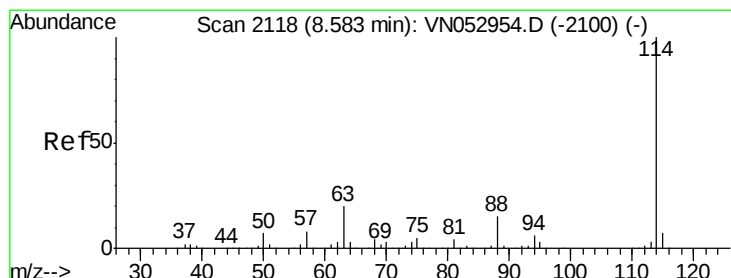
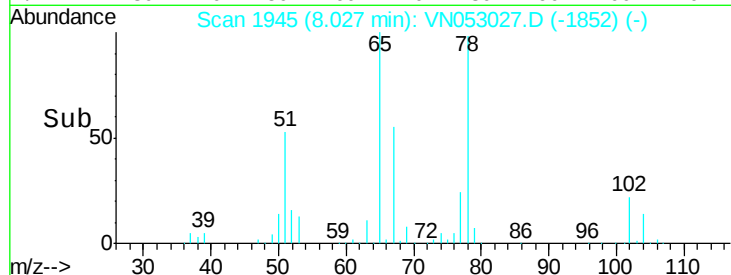
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

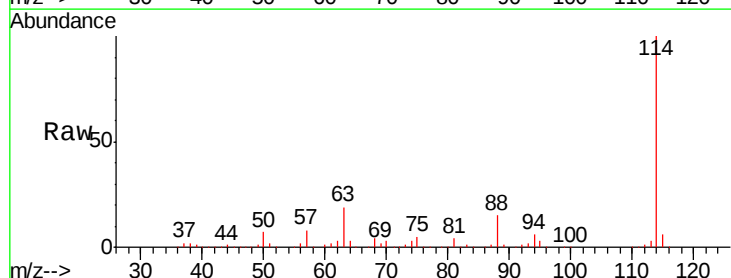
Tgt Ion: 114 Resp: 1671351

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.8

88 15.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN053027.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN053027.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN053027.D (-2025) (-)

8.59

1000000

800000

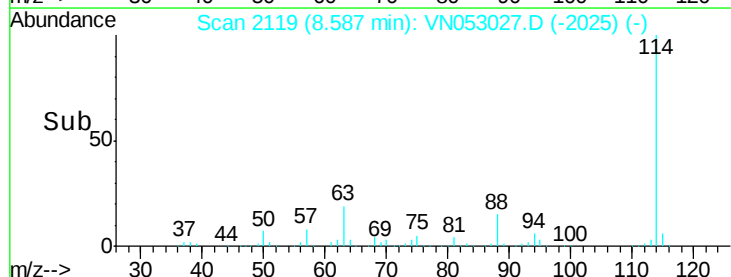
600000

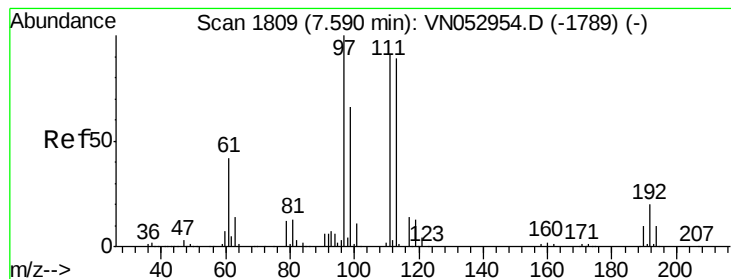
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

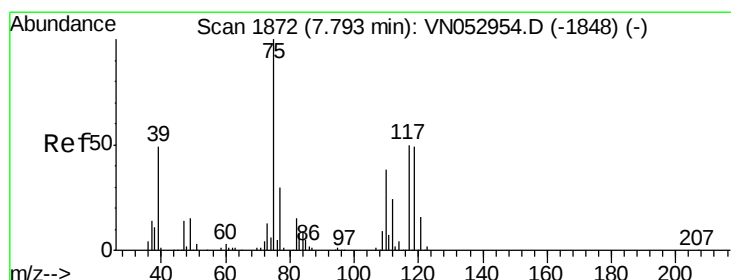
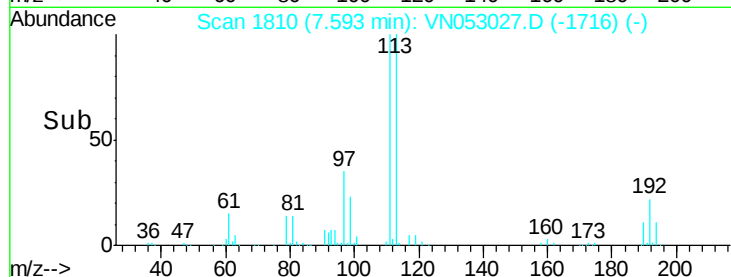
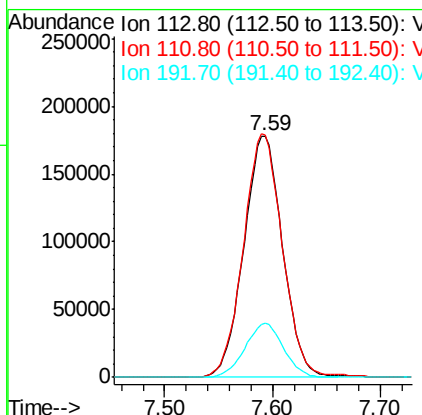
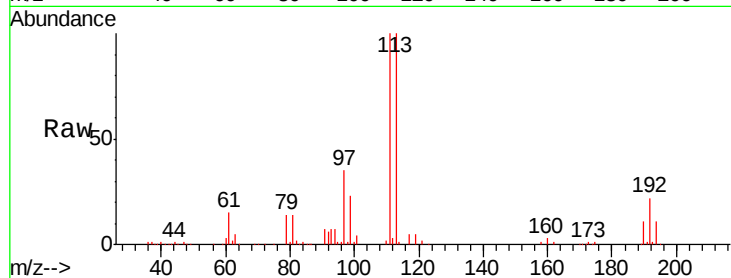
ClientSampleId :

VN1219MBSD02

Tgt Ion:	113	Resp:	443734
Ion Ratio	Lower	Upper	
113	100		
111	102.0	83.0	124.4
192	22.3	17.5	26.3

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#36

1,1-Dichloropropene

Concen: 19.461 ug/l

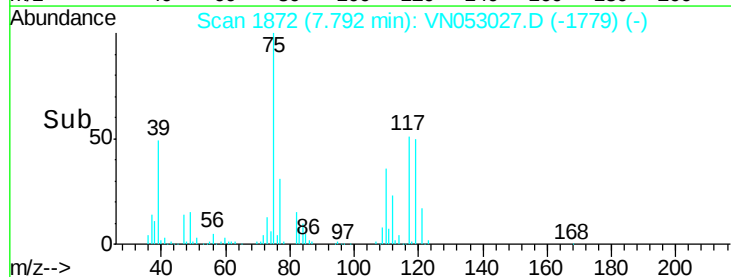
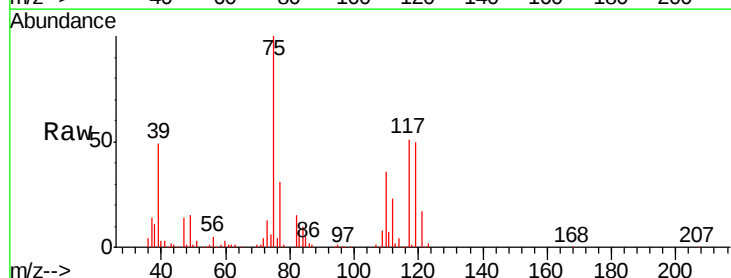
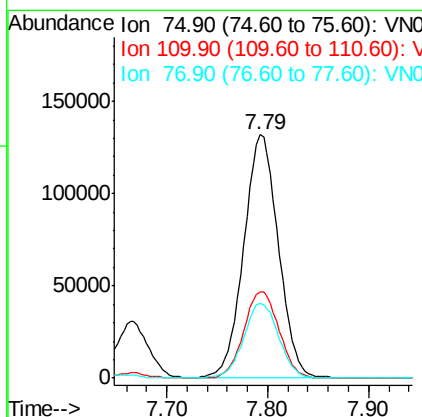
RT: 7.79 min Scan# 1872

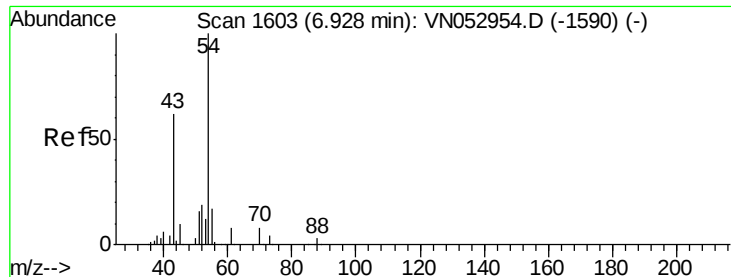
Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion:	75	Resp:	312199
Ion Ratio	Lower	Upper	
75	100		
110	36.4	18.2	54.6
77	31.4	24.9	37.3





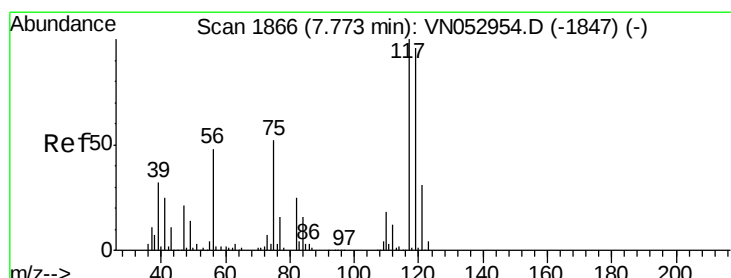
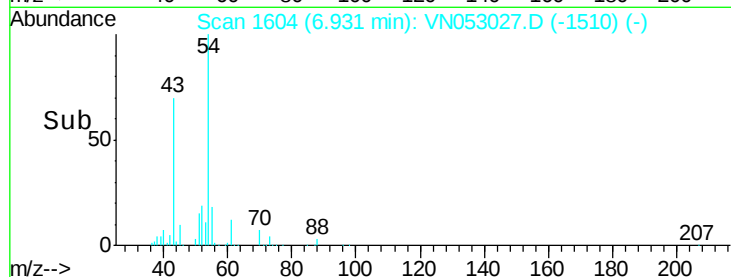
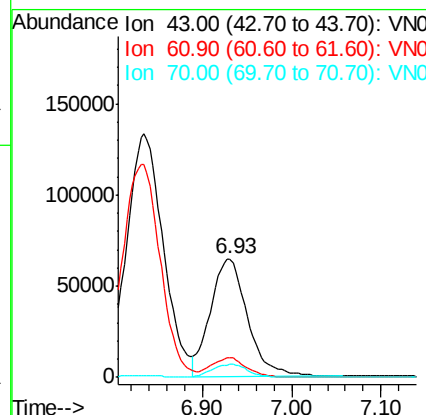
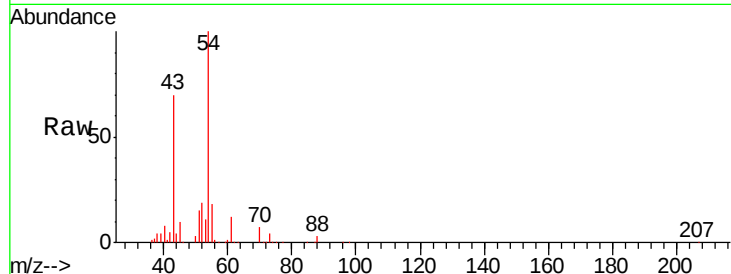
#37
Ethyl Acetate
Concen: 20.729 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	11.0	8.4	12.6

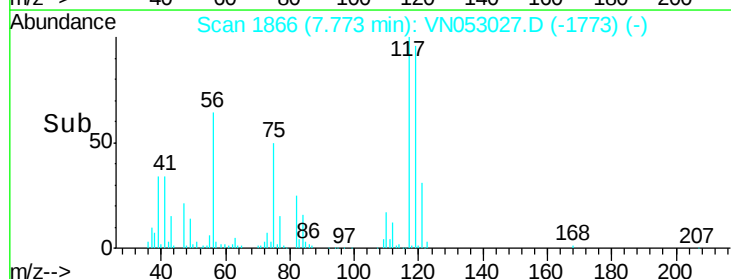
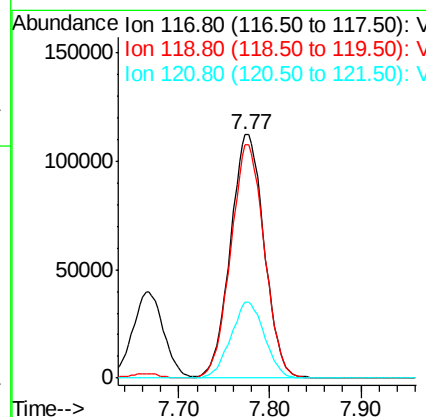
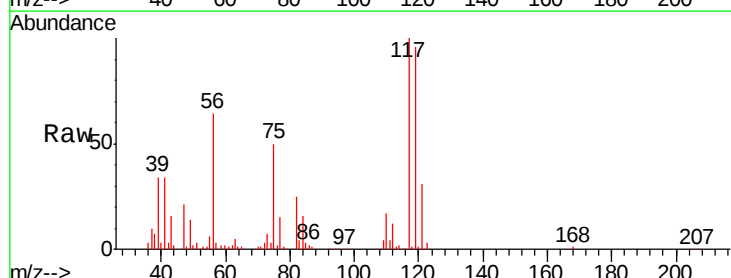
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#38
Carbon Tetrachloride
Concen: 19.752 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.5	77.1	115.7
121	31.1	24.9	37.3





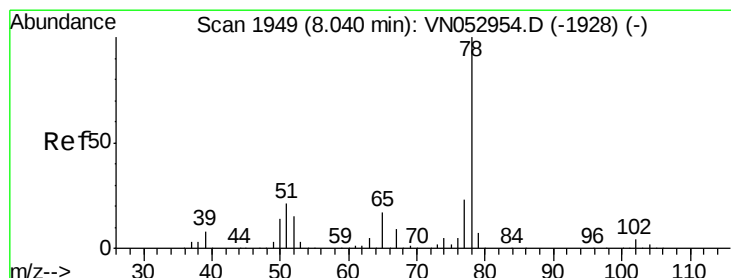
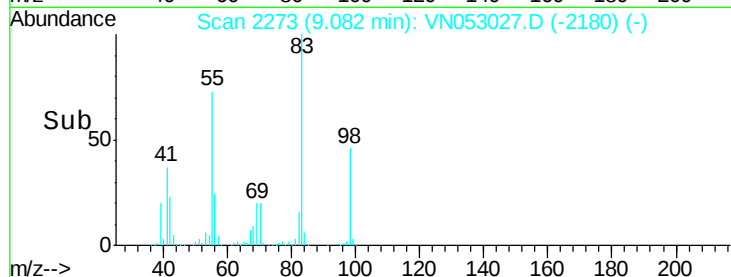
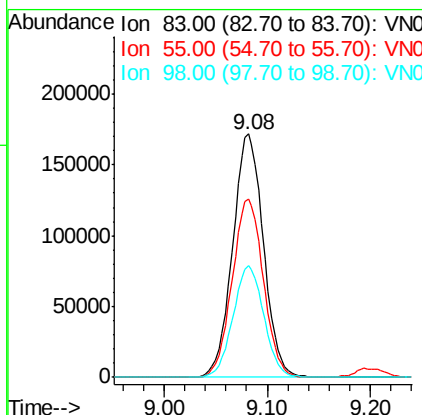
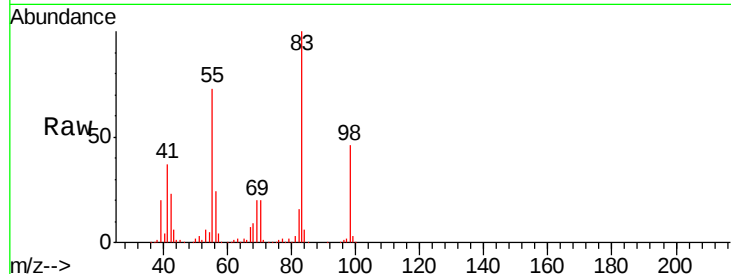
#39
Methylcyclohexane
Concen: 18.303 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.4	61.3	91.9
98	45.9	37.0	55.4

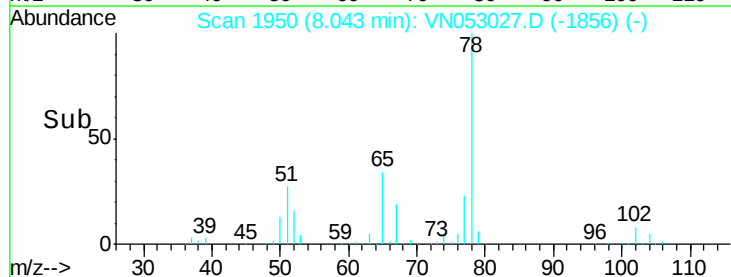
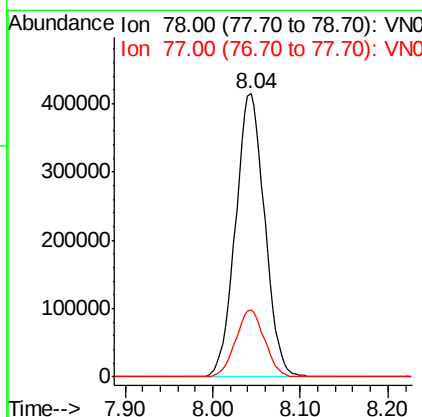
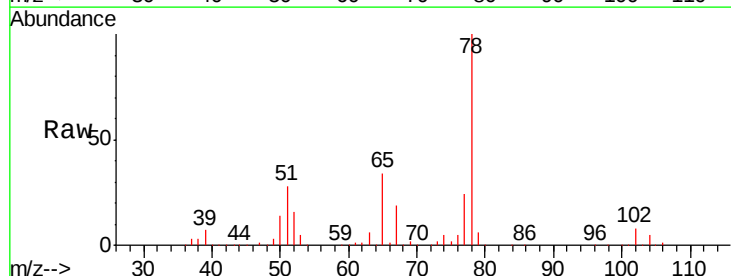
Manual Integrations
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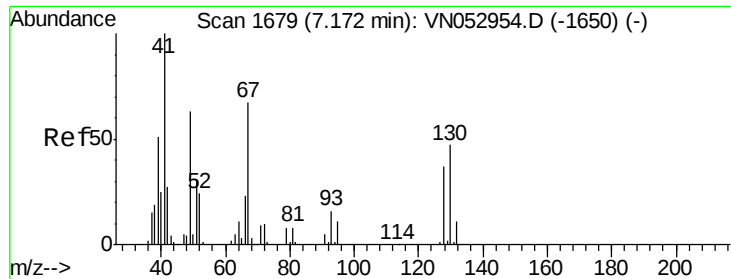
MMDadoda
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#40
Benzene
Concen: 20.072 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.5	27.7





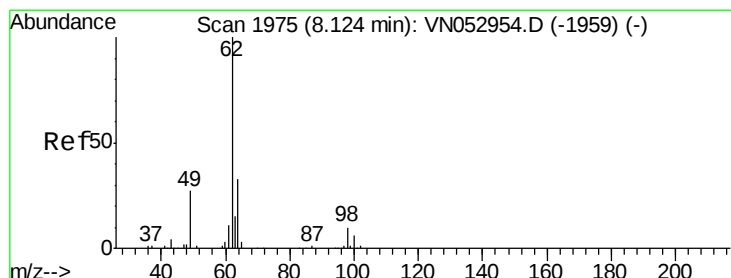
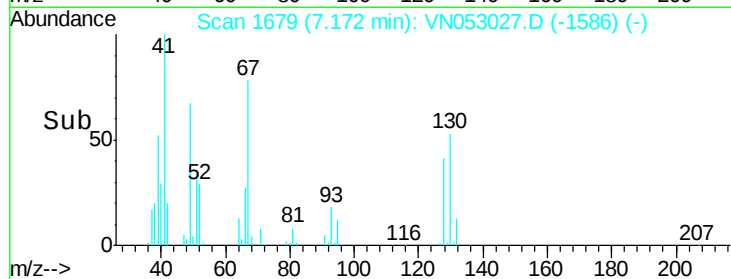
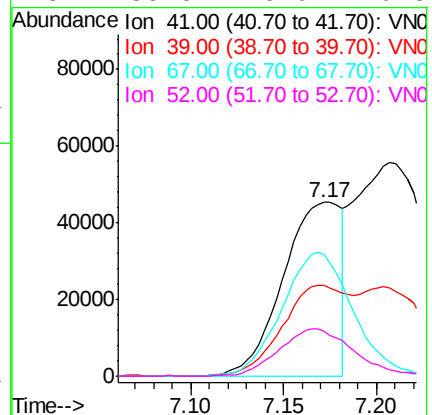
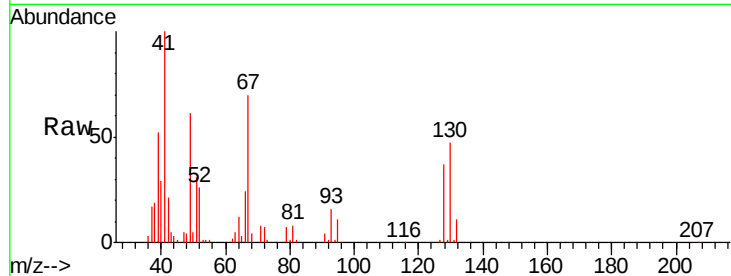
#41
Methacrylonitrile
Concen: 19.123 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
41	100		
39	60.4	48.0	72.0
67	87.9	70.3	105.5
52	35.3	26.9	40.3

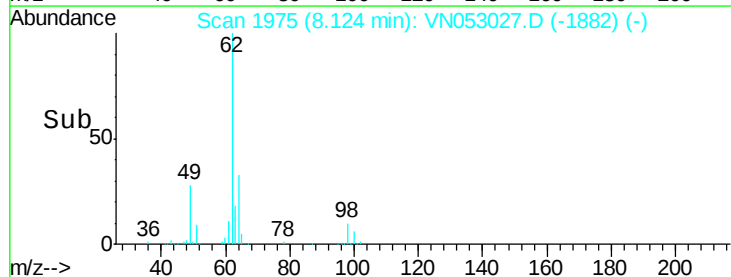
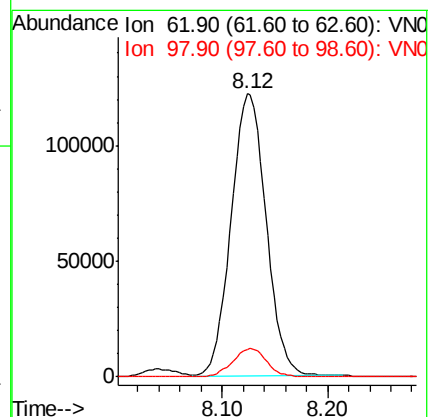
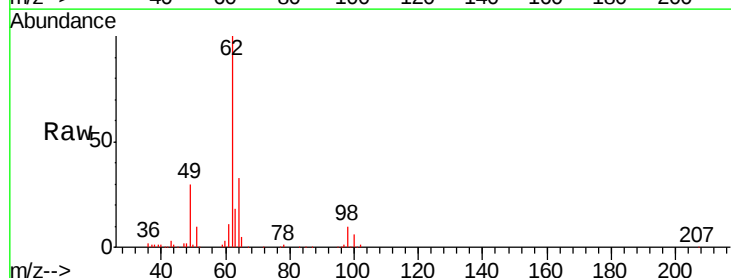
Manual Integrations
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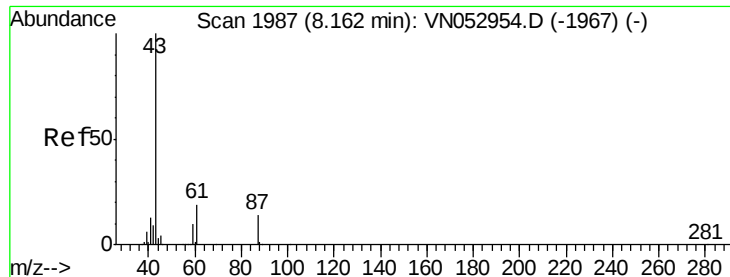
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.966 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	19.0





#43

Isopropyl Acetate

Concen: 19.757 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

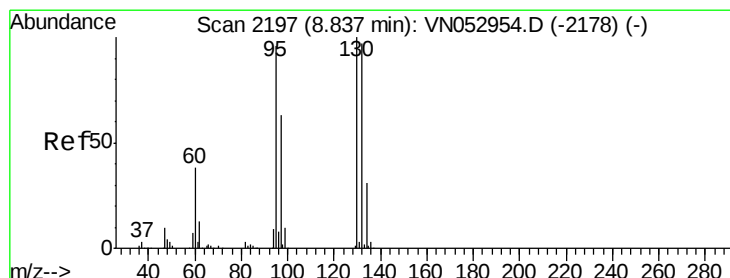
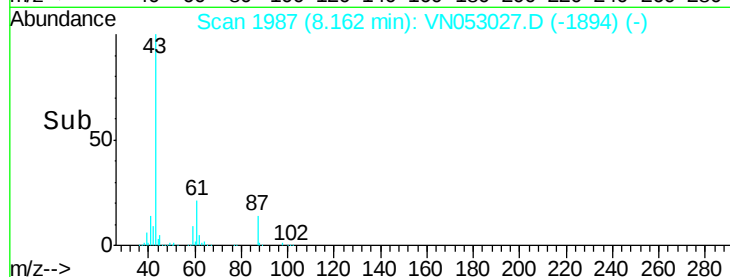
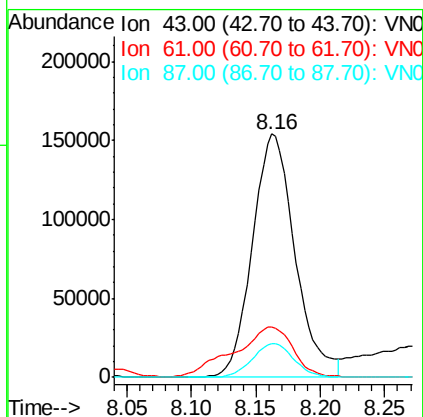
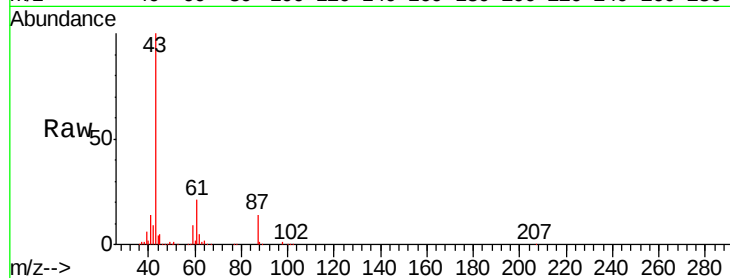
ClientSampleId :

VN1219MBSD02

Tgt Ion:	43	Resp:	353344
Ion Ratio	Lower	Upper	
43	100		
61	28.3	22.9	34.3
87	13.5	10.6	15.8

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#44

Trichloroethene

Concen: 19.184 ug/l

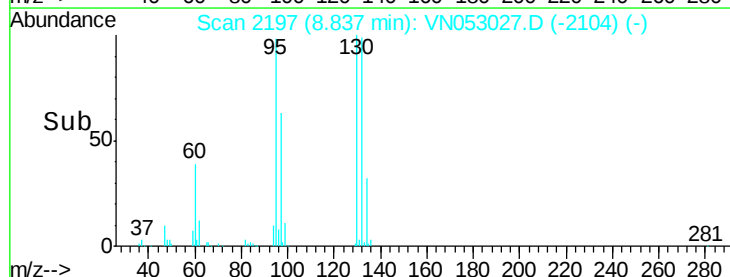
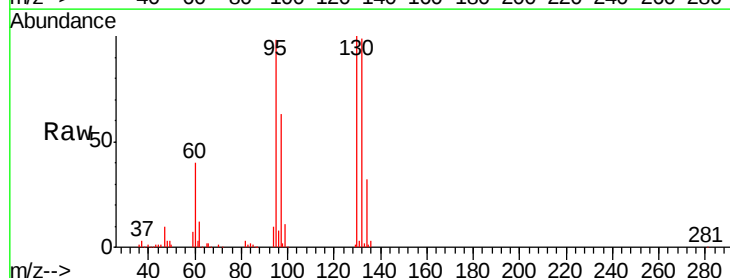
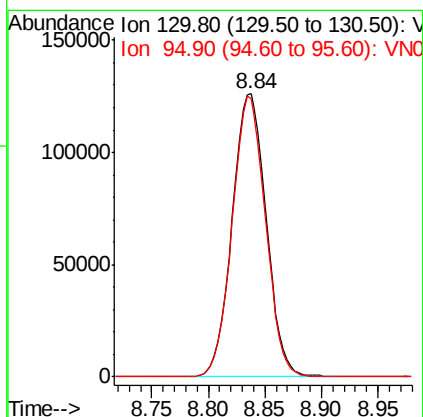
RT: 8.84 min Scan# 2197

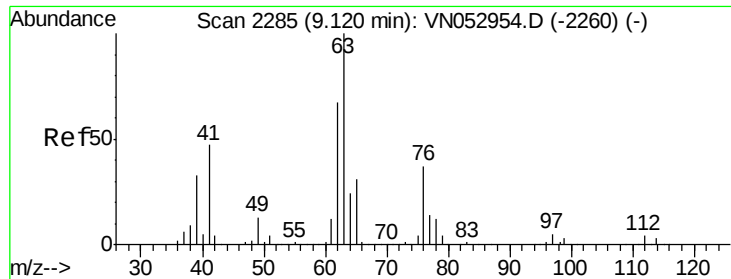
Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion:	130	Resp:	264765
Ion Ratio	Lower	Upper	
130	100		
95	98.3	0.0	197.8





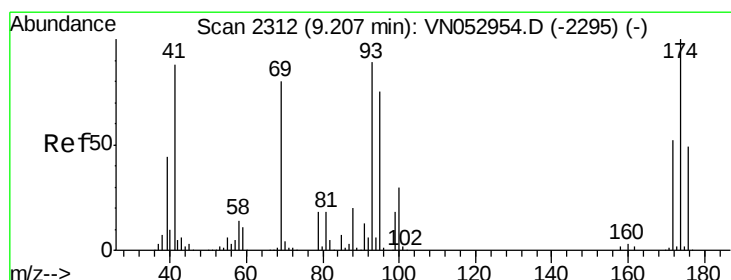
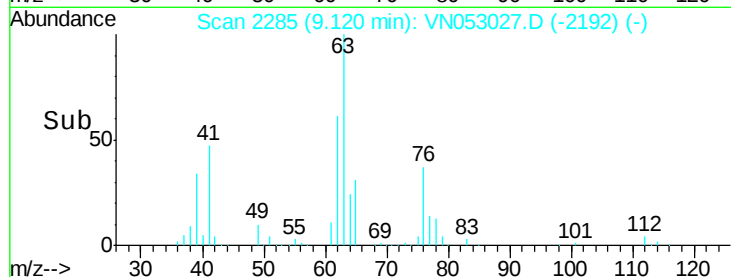
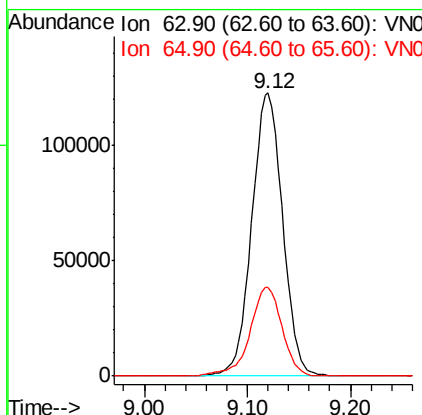
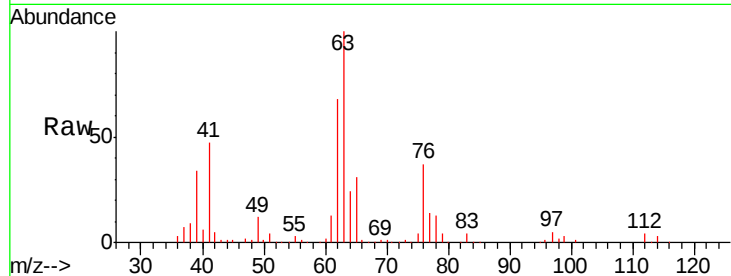
#45
 1,2-Dichloropropane
 Concen: 20.458 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Tgt Ion: 63 Resp: 254270
 Ion Ratio Lower Upper
 63 100
 65 31.4 24.6 37.0

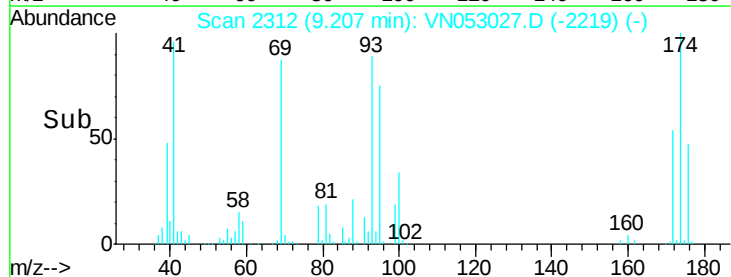
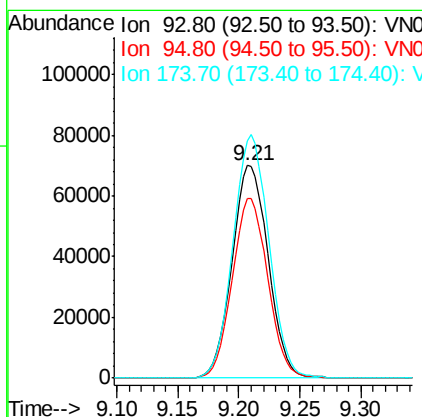
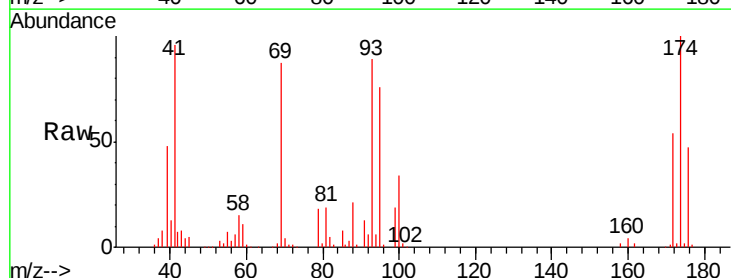
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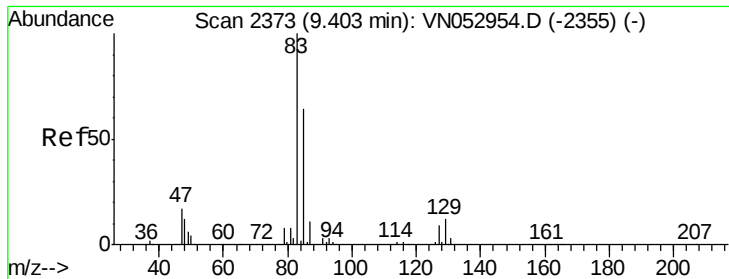
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 12/20/2018 4:58:56 PM



#46
 Dibromomethane
 Concen: 19.942 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion: 93 Resp: 144387
 Ion Ratio Lower Upper
 93 100
 95 83.1 67.8 101.6
 174 113.3 89.0 133.4





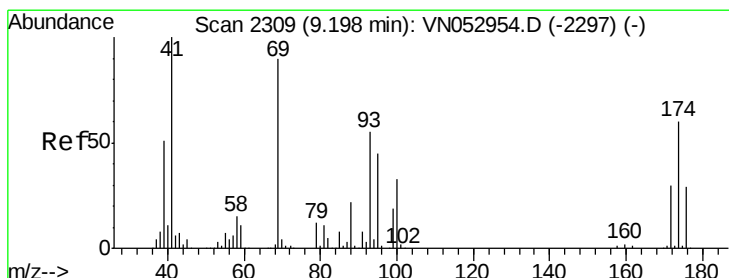
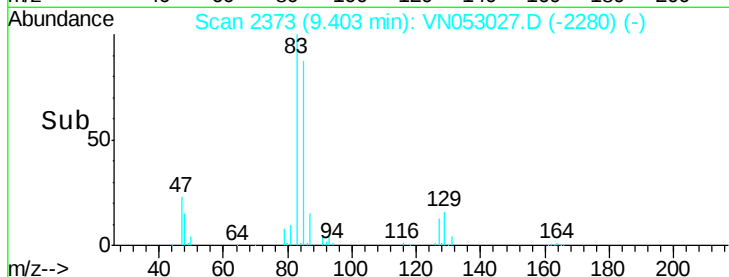
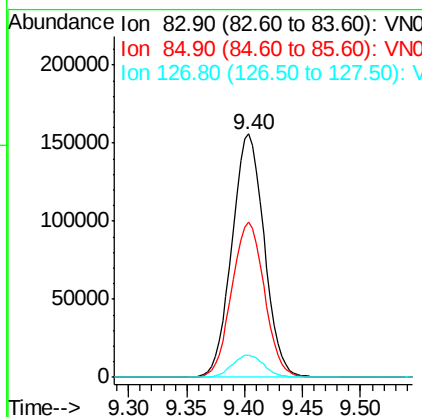
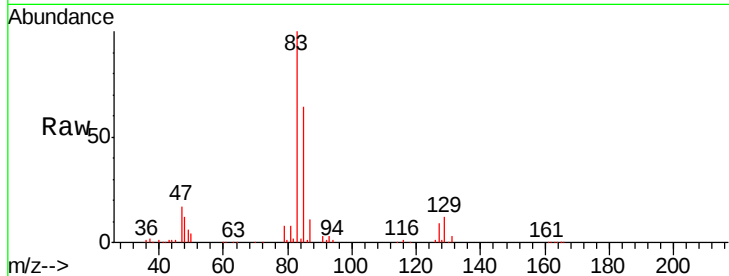
#47
Bromodichloromethane
Concen: 19.587 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.6	77.4
127	9.2	7.1	10.7

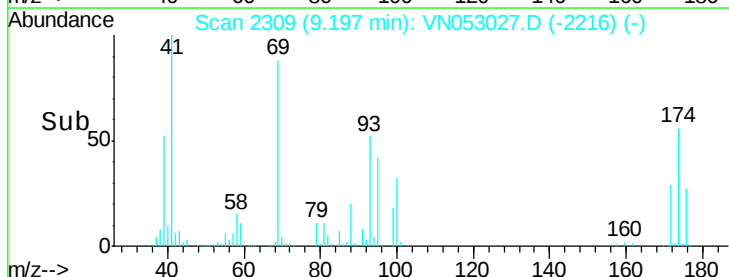
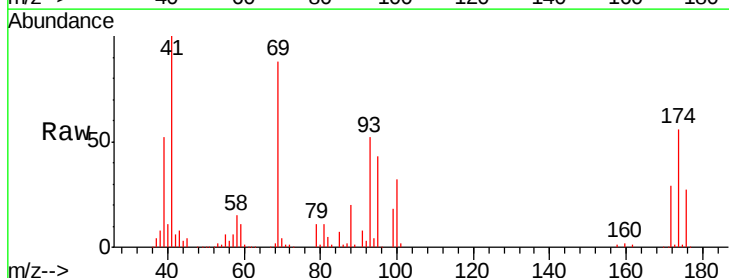
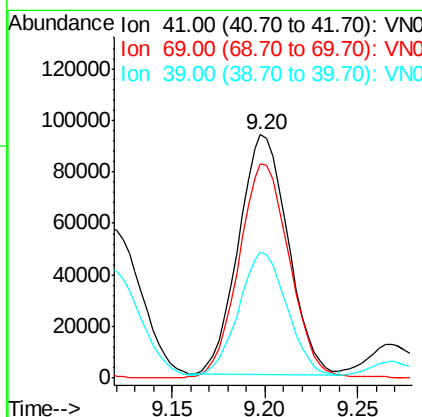
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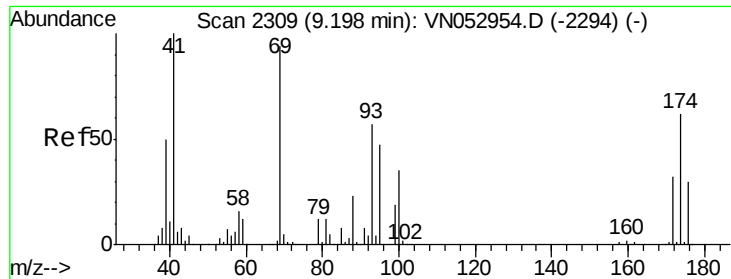
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#48
Methyl methacrylate
Concen: 19.819 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
41	100		
69	92.0	72.2	108.2
39	52.9	41.9	62.9





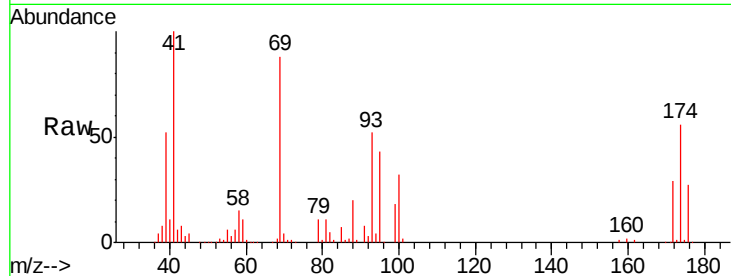
#49
1,4-Dioxane
Concen: 373.004 ug/l
RT: 9.20 min Scan# 2309
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS02

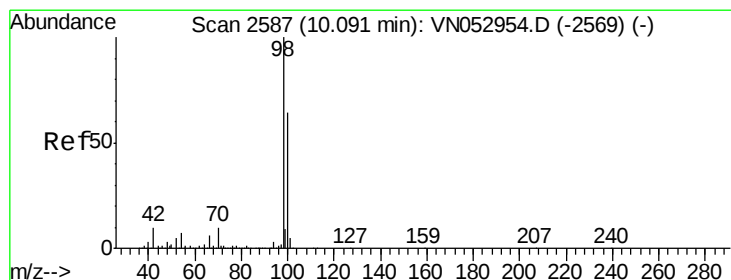
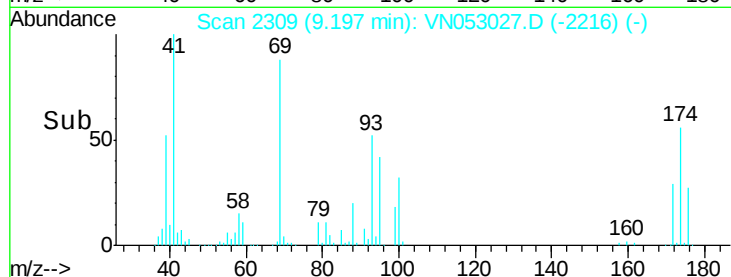
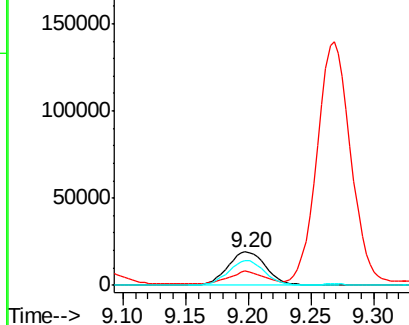
Tgt Ion	Ratio	Lower	Upper
88	100		
43	33.3	26.6	40.0
58	70.3	58.4	87.6

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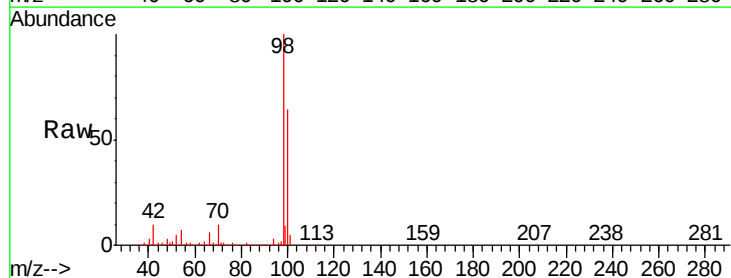


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

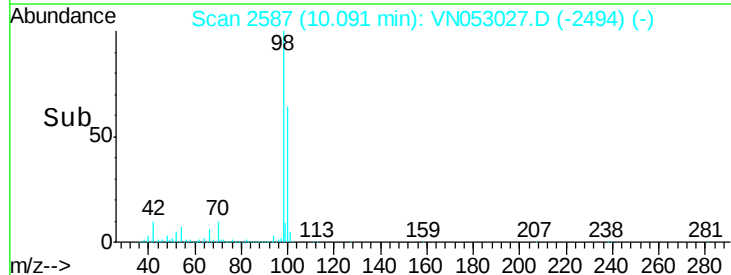
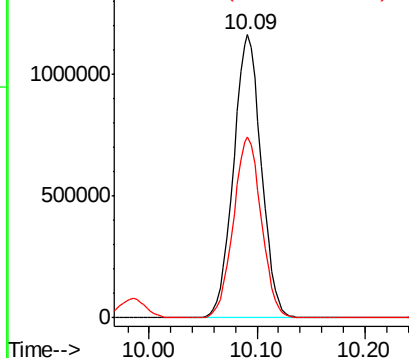


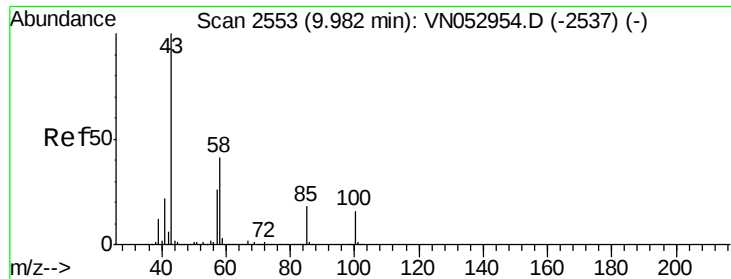
#50
Toluene-d8
Concen: 373.004 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.6	77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





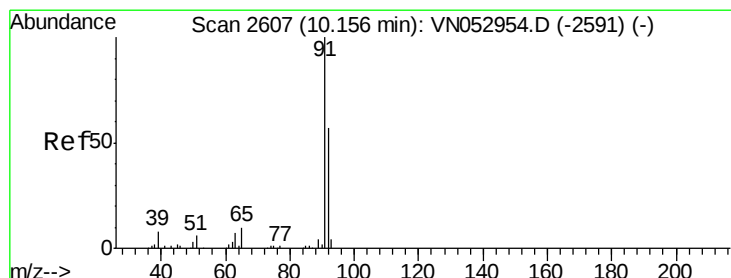
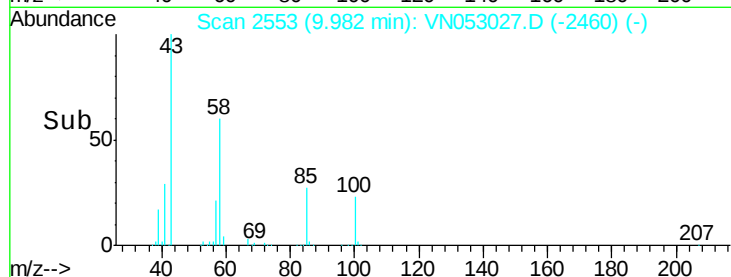
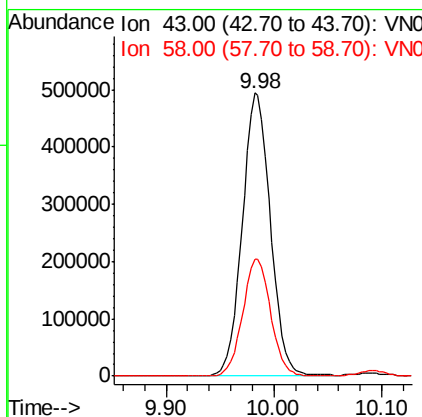
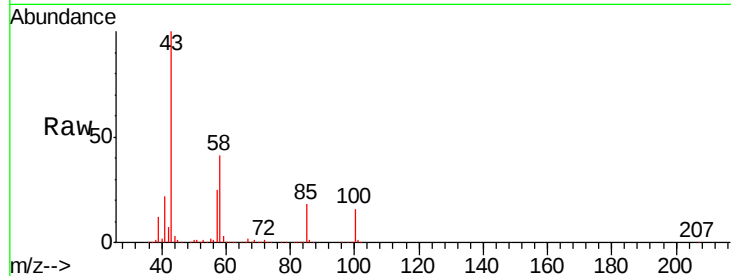
#51
 4-Methyl-2-Pentanone
 Concen: 102.766 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Tgt Ion: 43 Resp: 891260
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.2 48.4

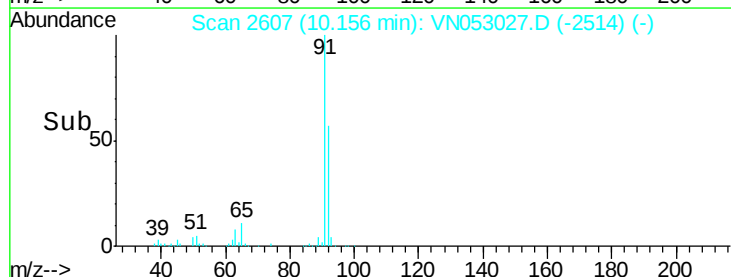
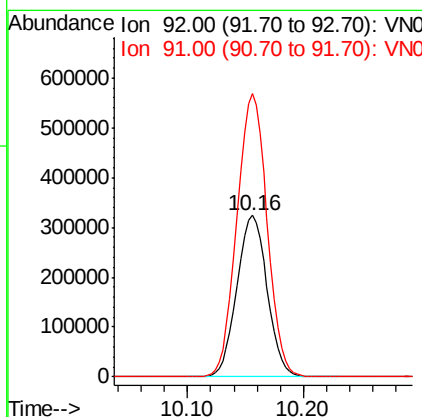
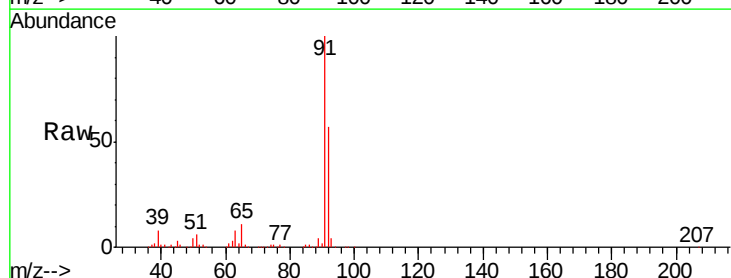
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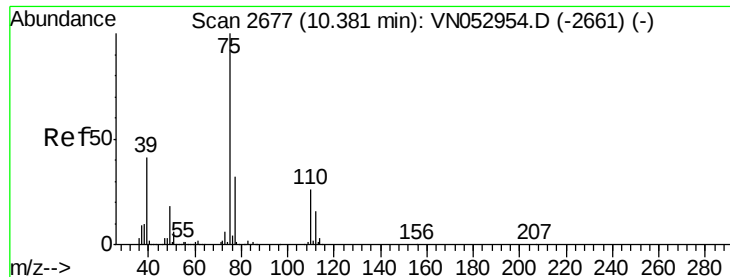
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#52
 Toluene
 Concen: 19.831 ug/l
 RT: 10.16 min Scan# 2607
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion: 92 Resp: 586527
 Ion Ratio Lower Upper
 92 100
 91 175.3 139.8 209.6





#53

t-1,3-Dichloropropene

Concen: 18.597 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 75 Resp: 300970

Ion Ratio Lower Upper

75 100

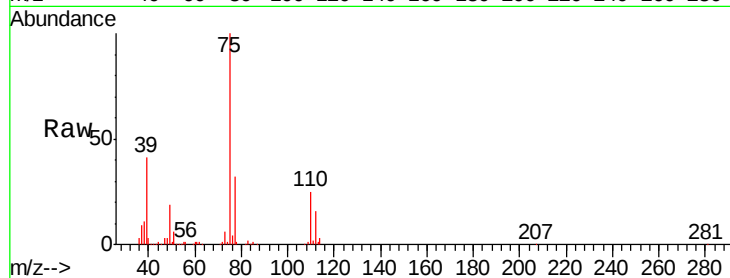
77 31.7 25.6 38.4

Manual Integrations

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

200000

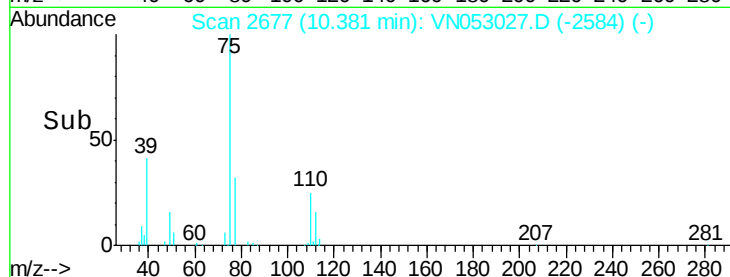
150000

100000

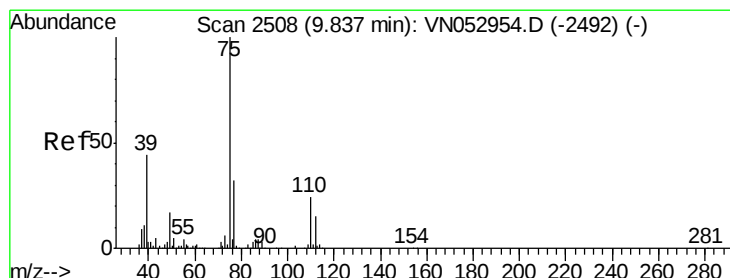
50000

0

Time-->



Time-->



#54

cis-1,3-Dichloropropene

Concen: 19.039 ug/l

RT: 9.84 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

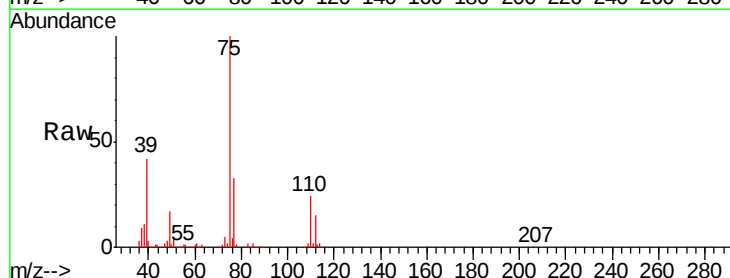
Tgt Ion: 75 Resp: 353684

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8

39 42.1 34.8 52.2



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

250000

200000

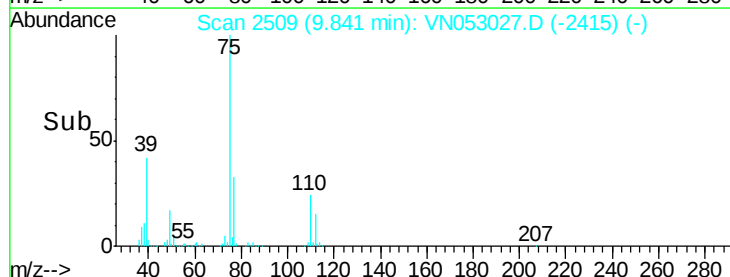
150000

100000

50000

0

Time-->





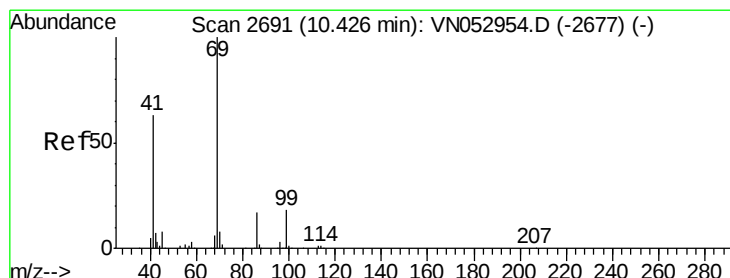
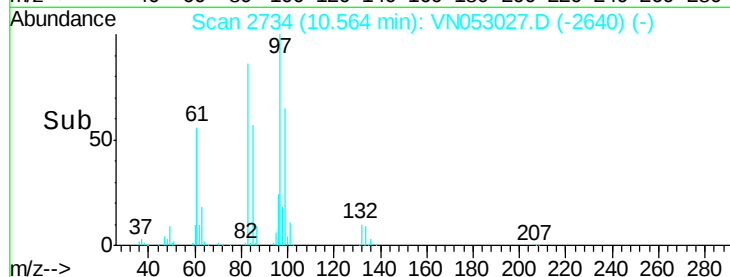
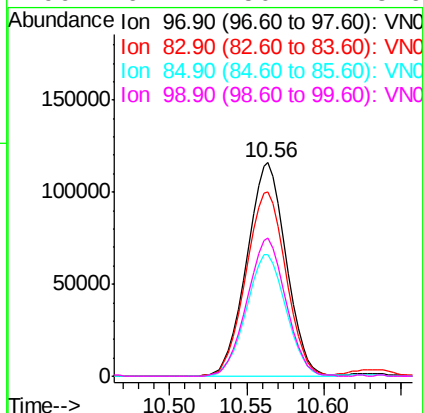
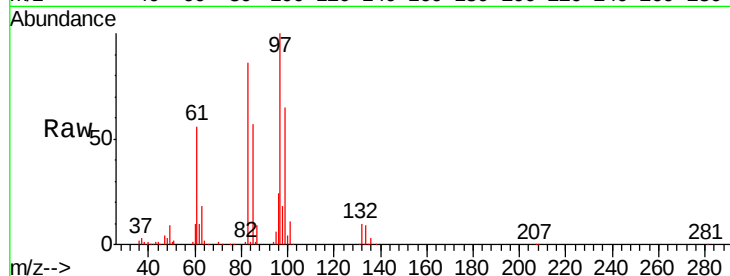
#55
 1,1,2-Trichloroethane
 Concen: 19.949 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	86.5	70.9	106.3
85	57.2	45.4	68.2
99	64.7	50.4	75.6

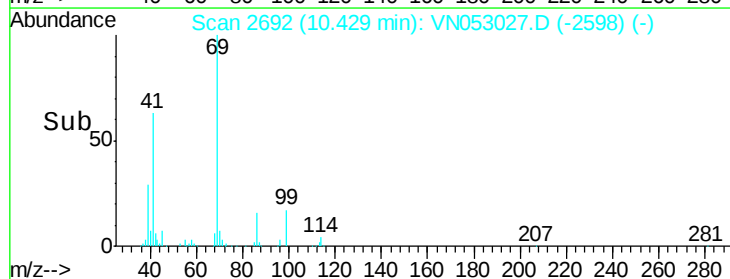
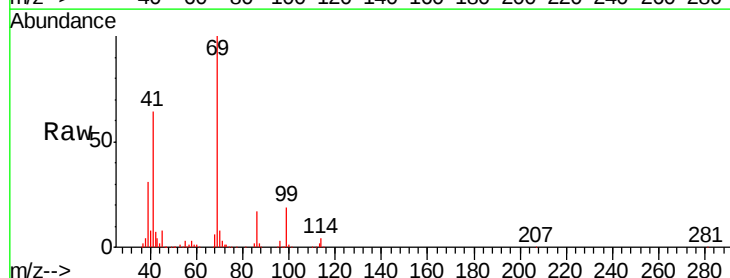
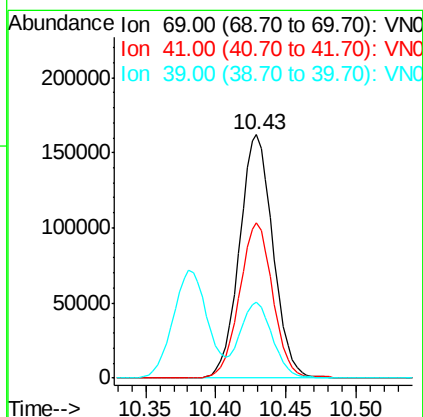
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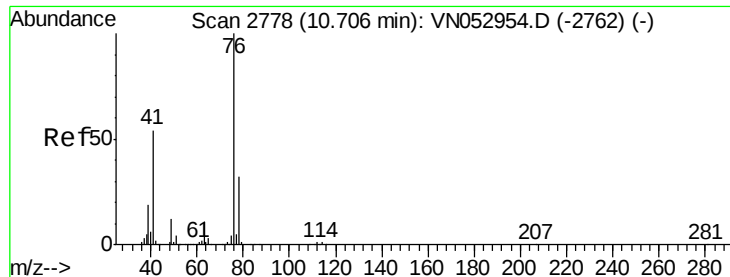
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#56
 Ethyl methacrylate
 Concen: 19.775 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.4	51.7	77.5
39	30.2	24.6	37.0





#57

1,3-Dichloropropane

Concen: 20.103 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 76 Resp: 355694

Ion Ratio Lower Upper

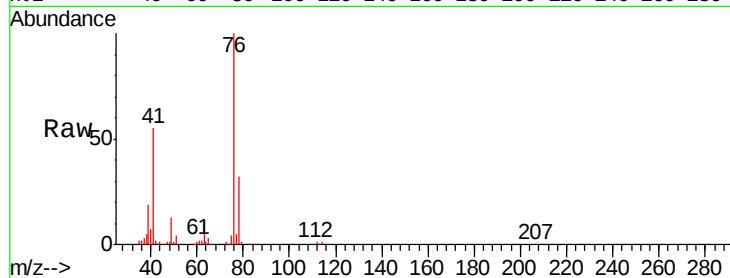
76 100

78 31.7 25.8 38.8

Manual Integrations
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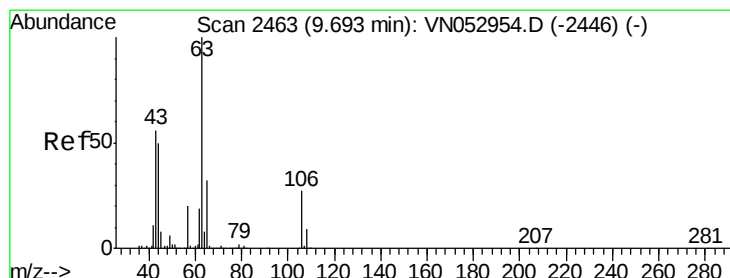
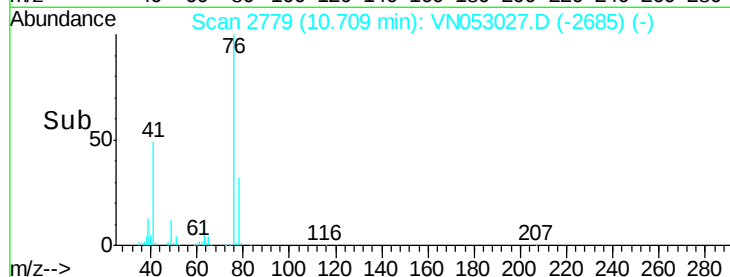
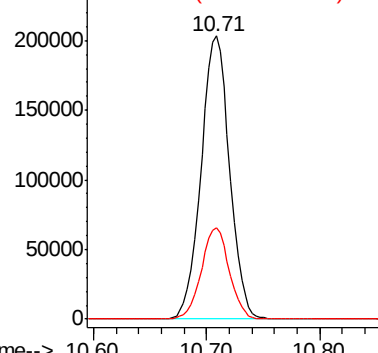
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 101.519 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053027.D

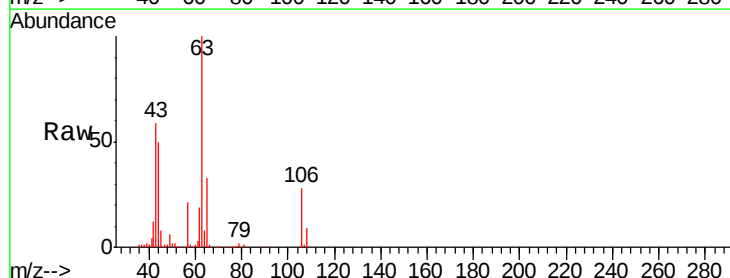
Acq: 19 Dec 2018 23:16

Tgt Ion: 63 Resp: 761158

Ion Ratio Lower Upper

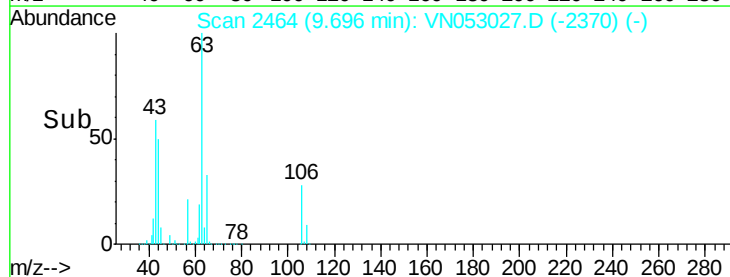
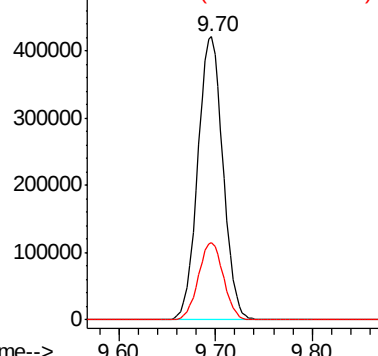
63 100

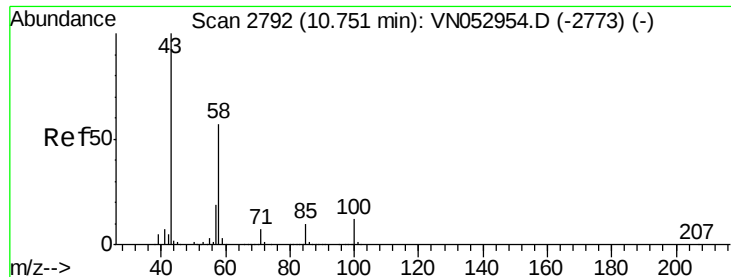
106 27.2 21.0 31.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





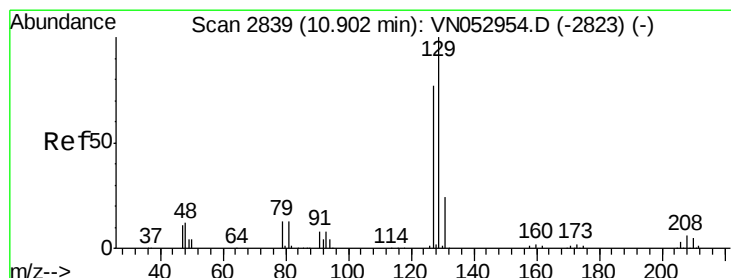
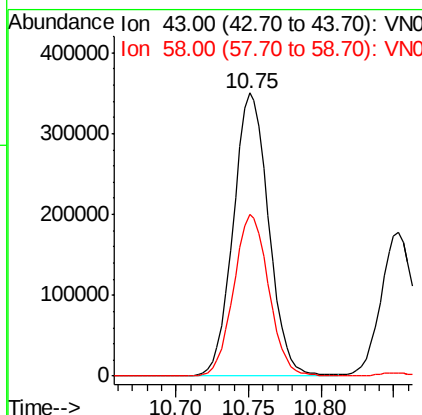
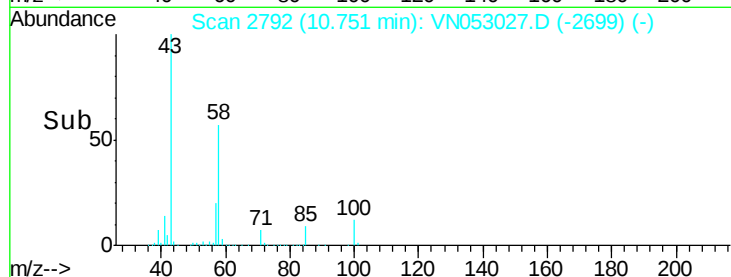
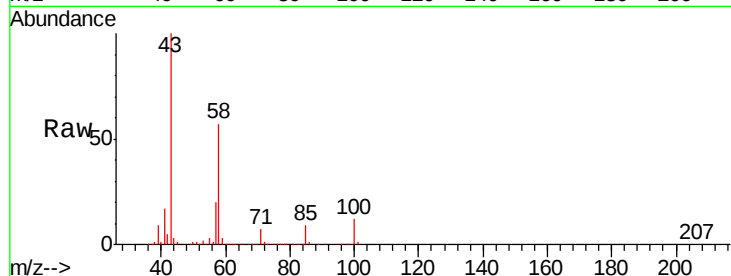
#59
2-Hexanone
Concen: 100.687 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion: 43 Resp: 590809
Ion Ratio Lower Upper
43 100
58 57.0 28.1 84.3

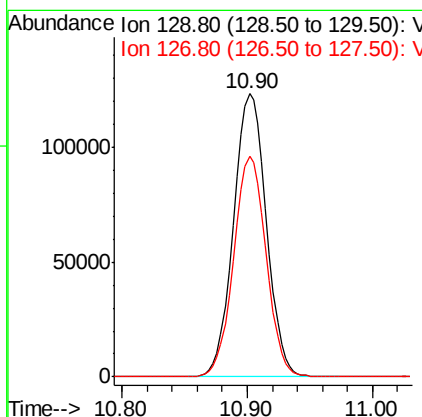
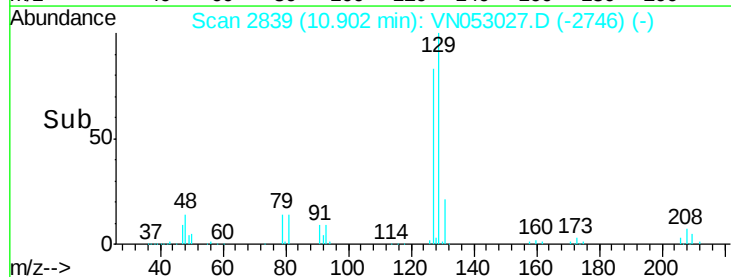
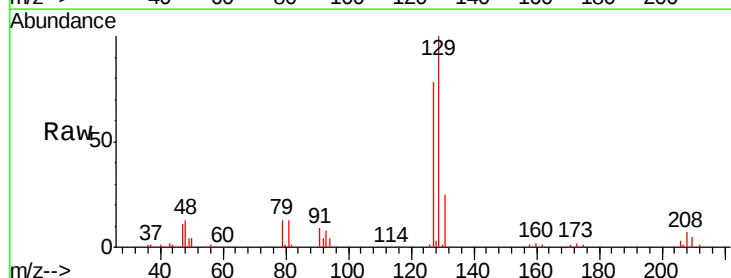
Manual Integrations
APPROVED

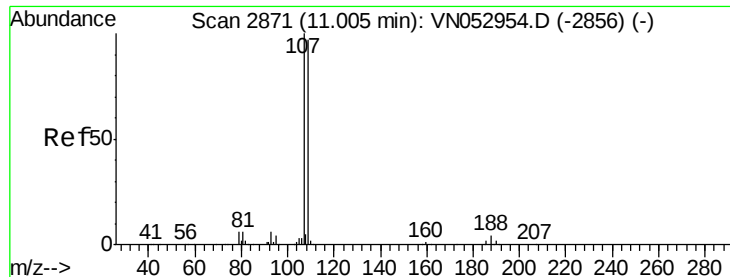
MMDadoda
12/20/2018 4:58:56 PM



#60
Dibromochloromethane
Concen: 19.013 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion: 129 Resp: 224566
Ion Ratio Lower Upper
129 100
127 77.1 38.6 116.0





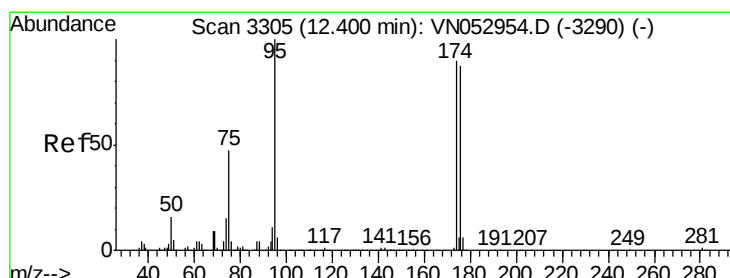
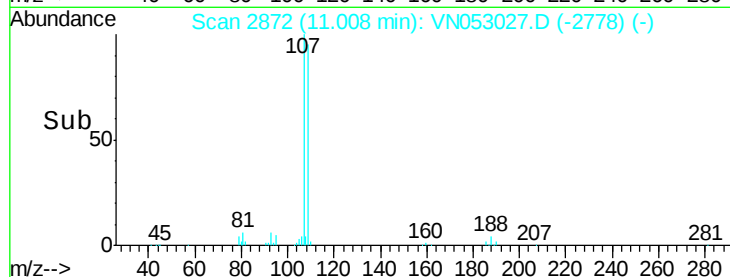
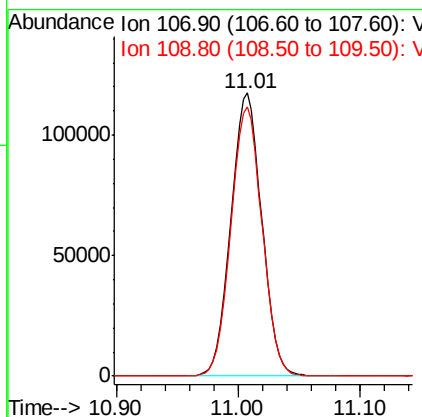
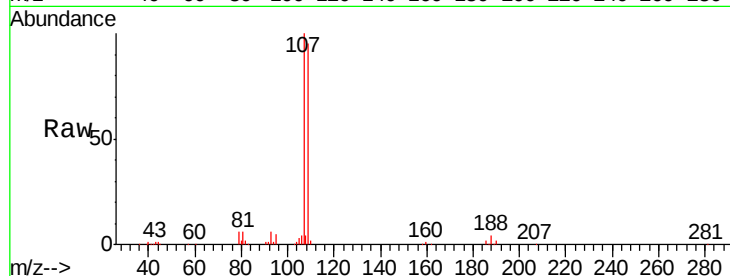
#61
1,2-Dibromoethane
Concen: 19.687 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBS02

Tgt Ion: 107 Resp: 206303
Ion Ratio Lower Upper
107 100
109 96.1 75.4 113.0

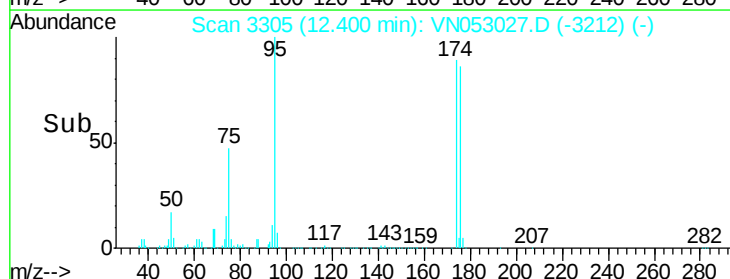
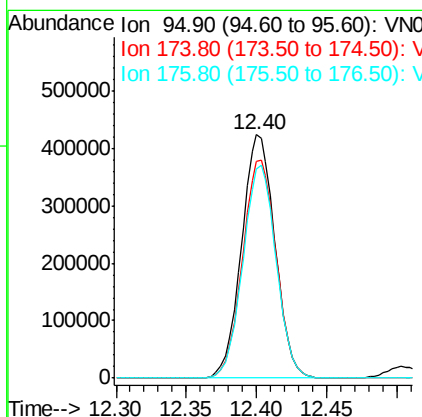
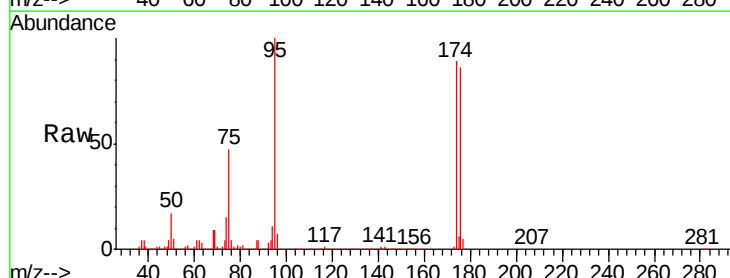
Manual Integrations
APPROVED

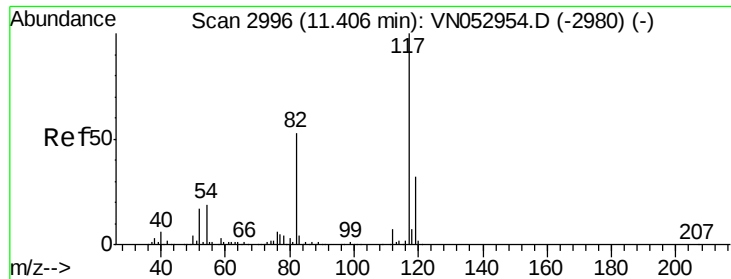
MMDadoda
12/20/2018 4:58:56 PM



#62
4-Bromofluorobenzene
Concen: 19.687 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion: 95 Resp: 702711
Ion Ratio Lower Upper
95 100
174 90.3 0.0 178.8
176 87.2 0.0 173.8





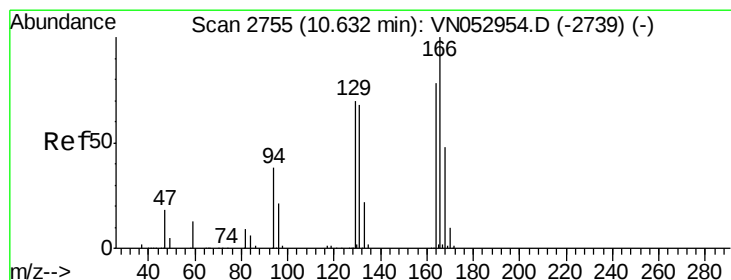
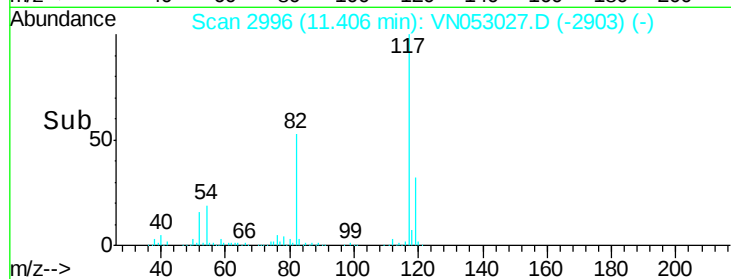
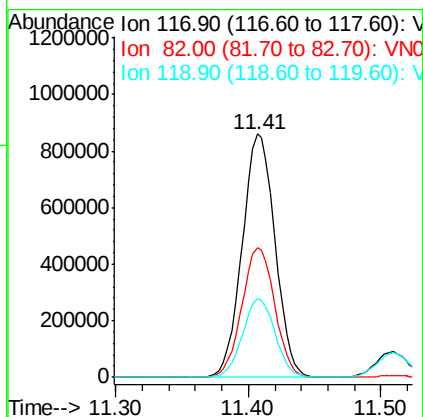
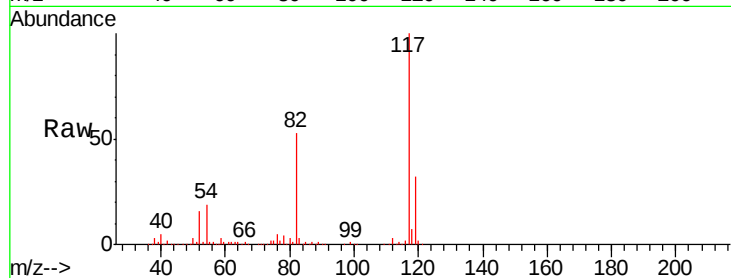
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion:117 Resp: 1479755
Ion Ratio Lower Upper
117 100
82 53.3 42.8 64.2
119 32.2 25.5 38.3

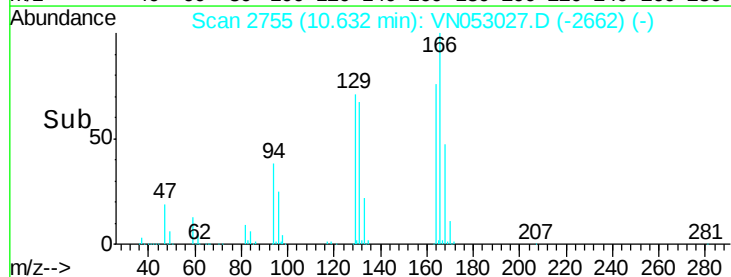
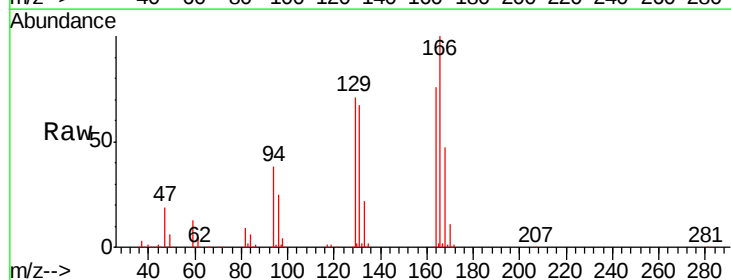
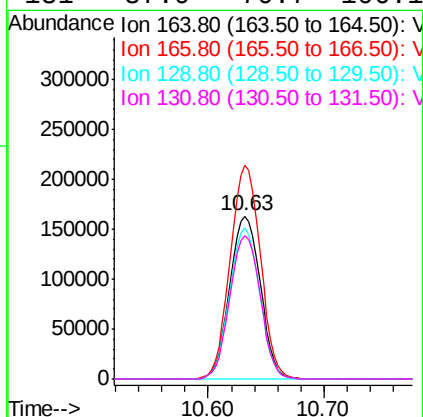
Manual Integrations
APPROVED

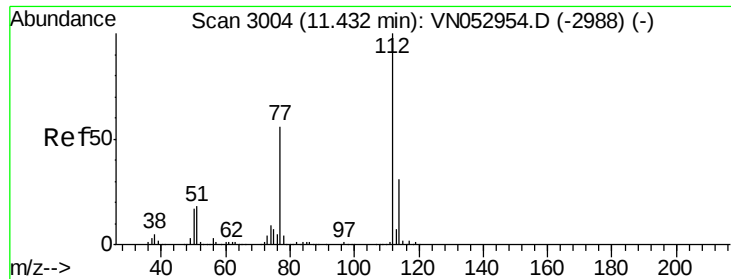
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12/20/2018 4:58:56 PM



#64
Tetrachloroethene
Concen: 18.574 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion:164 Resp: 297719
Ion Ratio Lower Upper
164 100
166 131.3 102.9 154.3
129 92.7 73.7 110.5
131 87.9 70.7 106.1





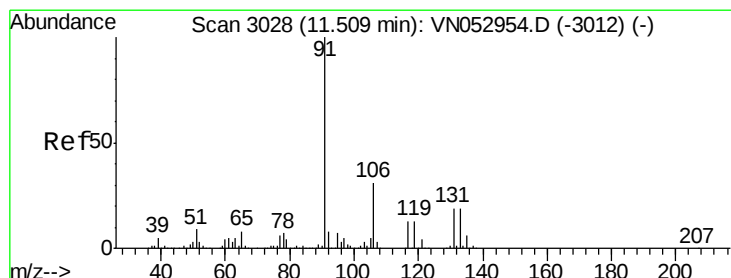
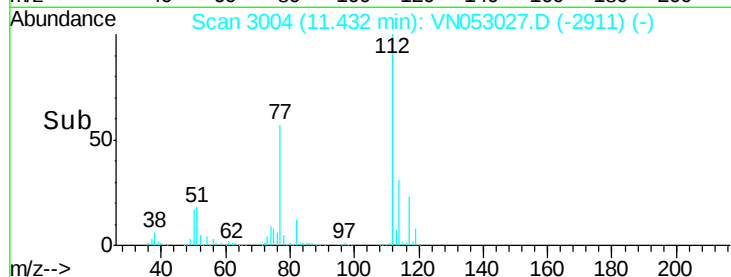
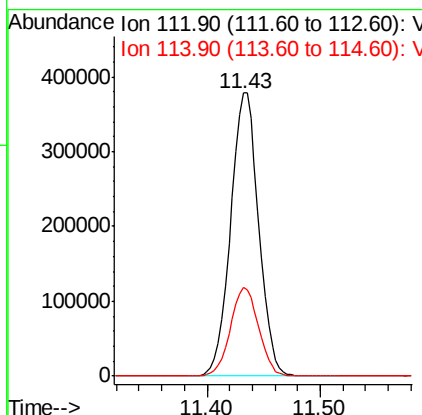
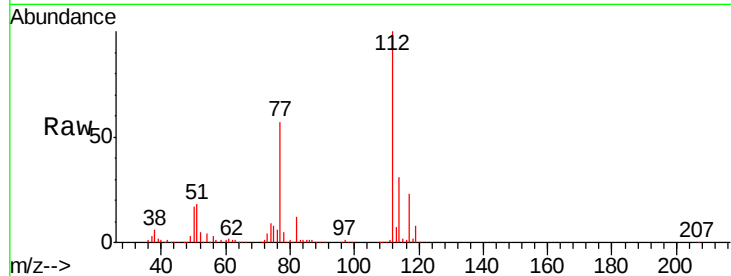
#65
Chlorobenzene
Concen: 19.833 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion:112 Resp: 650576
Ion Ratio Lower Upper
112 100
114 31.3 25.5 38.3

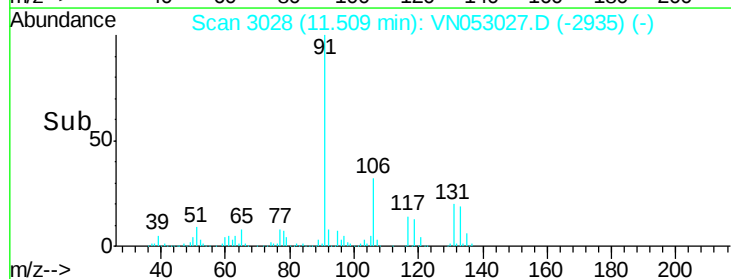
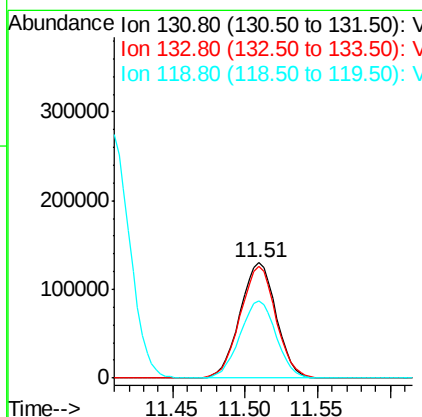
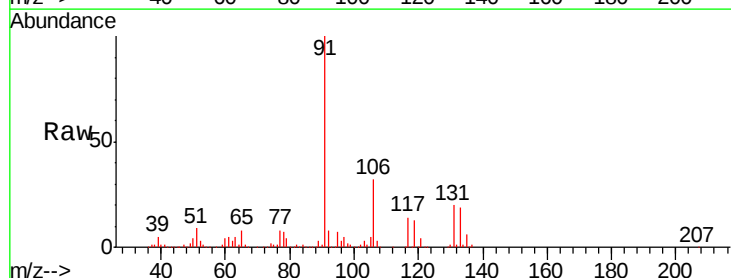
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.773 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion:131 Resp: 225548
Ion Ratio Lower Upper
131 100
133 95.9 47.6 142.9
119 67.0 33.3 99.8





#67

Ethyl Benzene

Concen: 19.633 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 91 Resp: 1107533

Ion Ratio Lower Upper

91 100

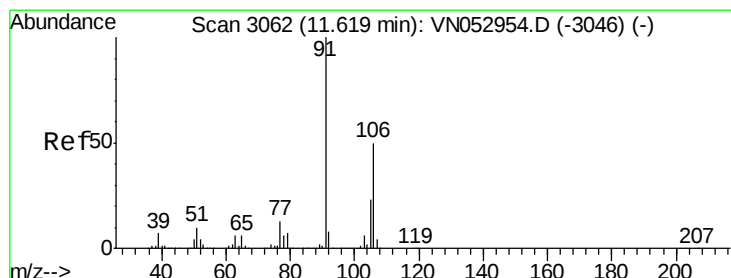
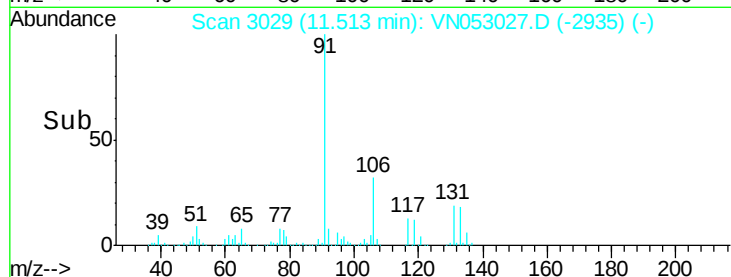
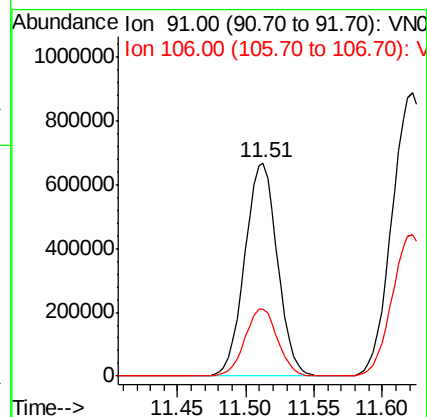
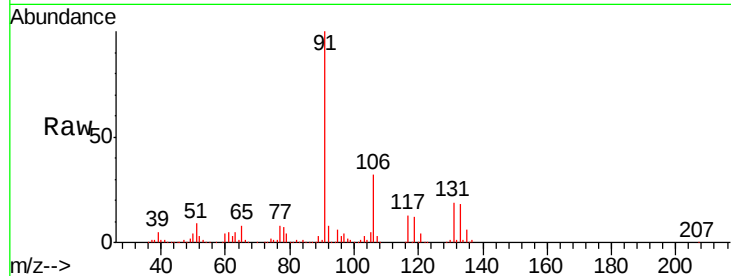
106 31.6 24.9 37.3

Manual Integrations

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#68

m/p-Xylenes

Concen: 39.628 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN053027.D

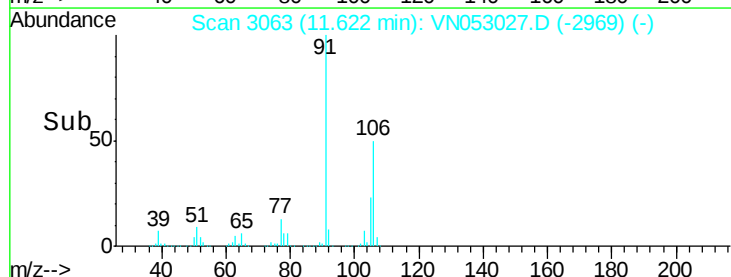
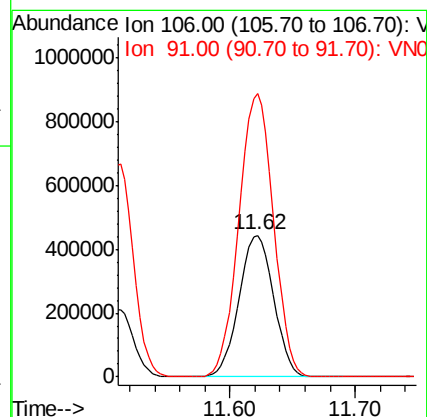
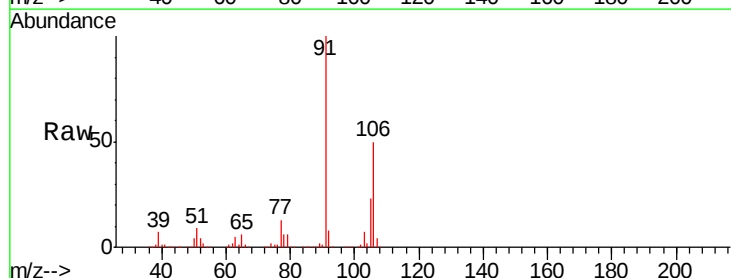
Acq: 19 Dec 2018 23:16

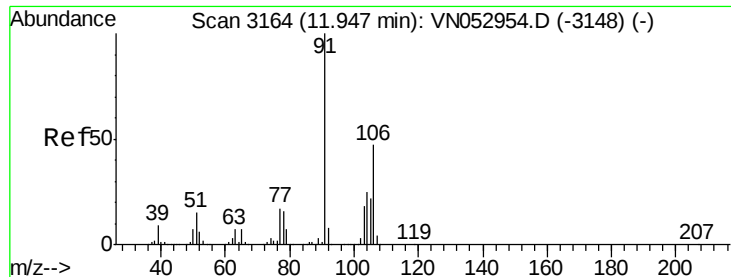
Tgt Ion: 106 Resp: 849822

Ion Ratio Lower Upper

106 100

91 199.9 162.2 243.4





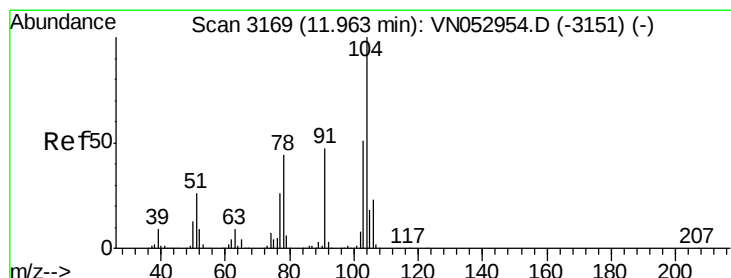
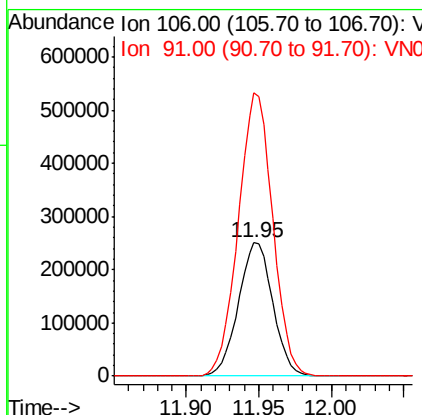
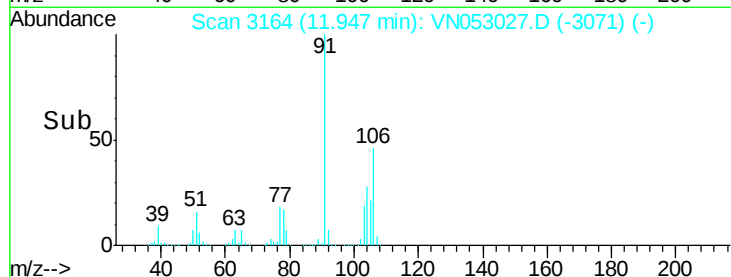
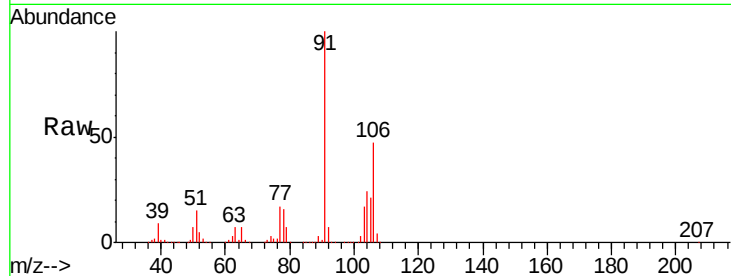
#69
o-Xylene
Concen: 20.076 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion:106 Resp: 413132
Ion Ratio Lower Upper
106 100
91 212.2 106.6 319.8

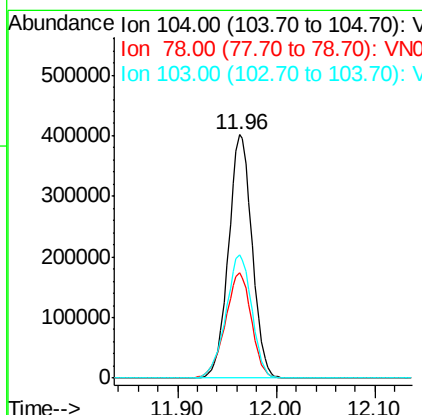
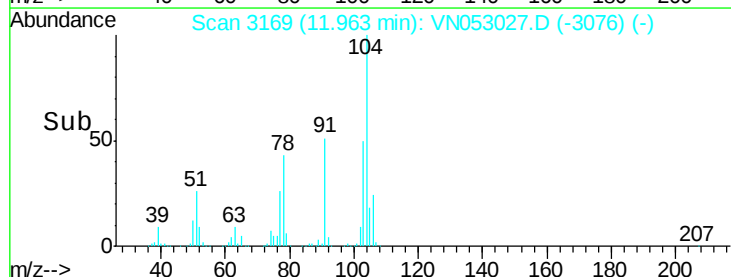
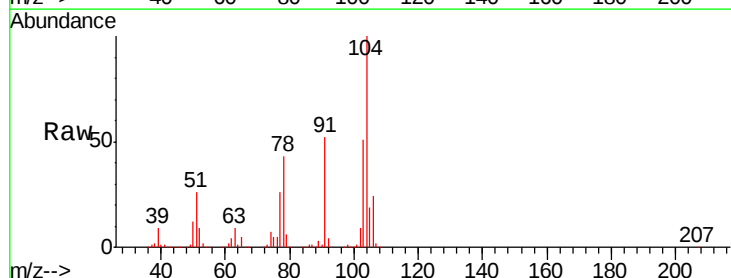
Manual Integrations
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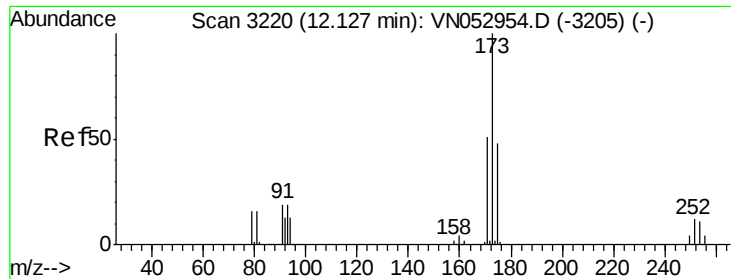
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#70
Styrene
Concen: 19.984 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion:104 Resp: 670573
Ion Ratio Lower Upper
104 100
78 48.0 38.9 58.3
103 55.4 44.3 66.5





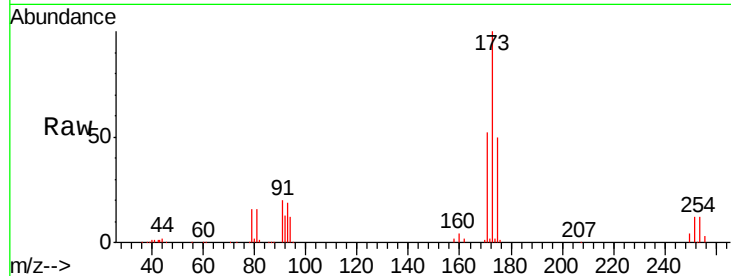
#71
Bromoform
Concen: 18.443 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

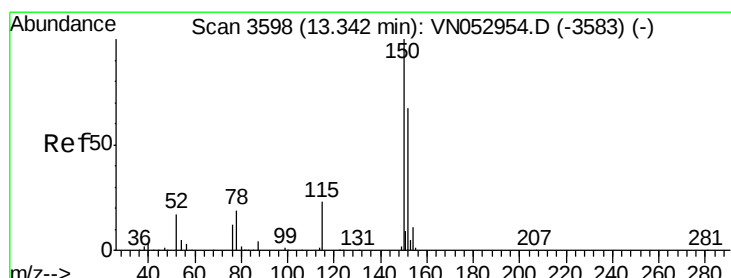
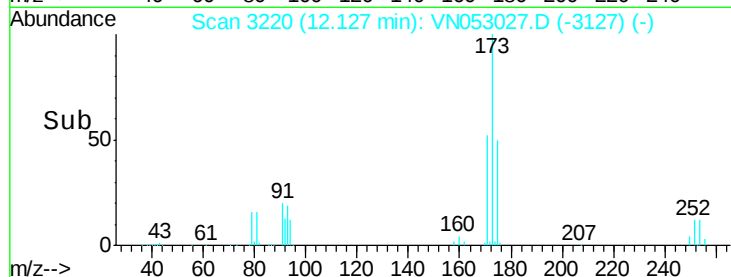
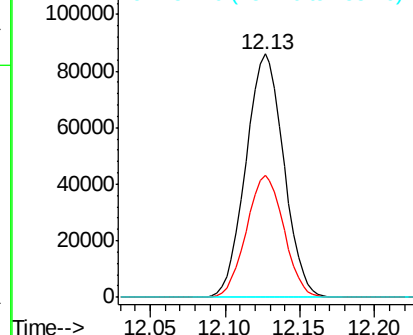
Tgt Ion	Ratio	Resp	Lower	Upper
173	100	151975		
175	49.4	24.3	72.9	
254	0.0	0.1	0.1#	

Manual Integrations
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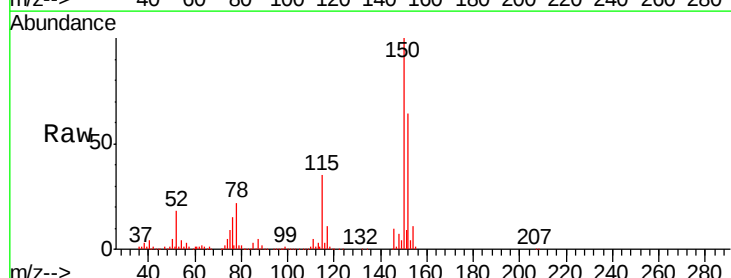


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

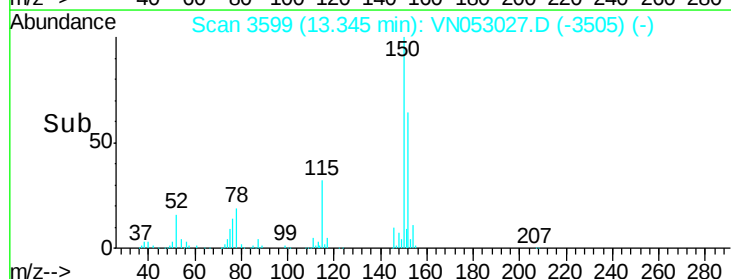
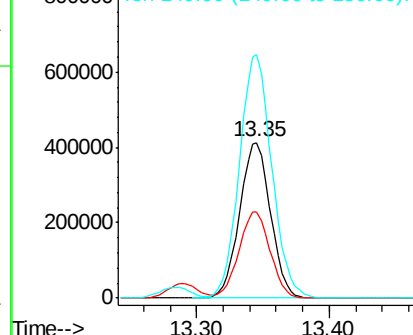


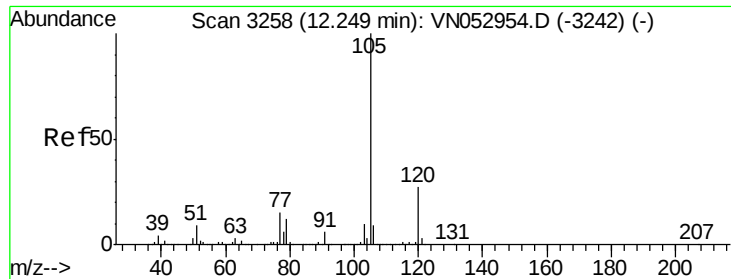
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	667204		
115	55.7	28.3	85.0	
150	164.2	0.0	347.8	



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





#73

Isopropylbenzene

Concen: 20.955 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 105 Resp: 1093899

Ion Ratio Lower Upper

105 100

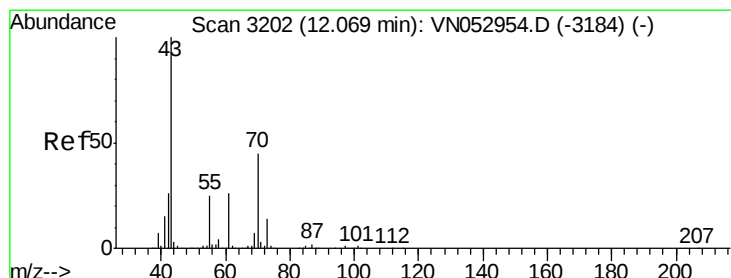
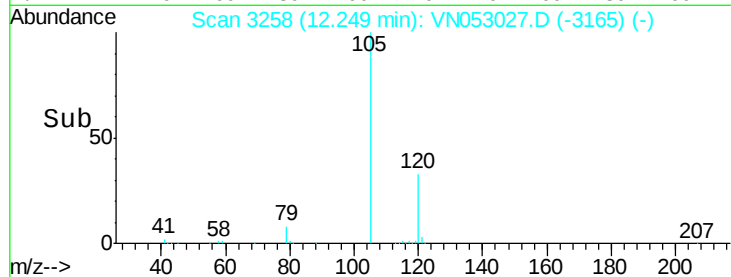
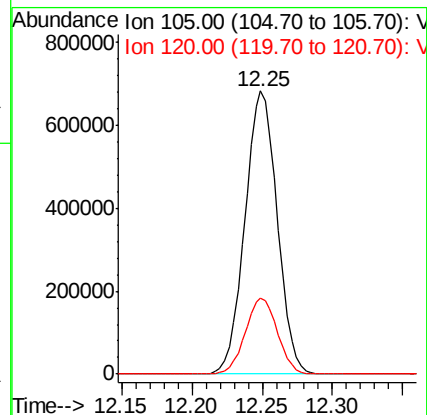
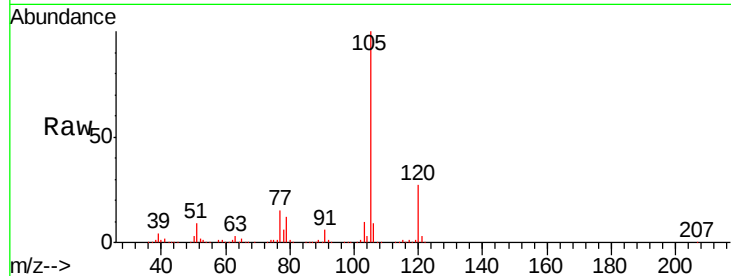
120 26.8 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 20.597 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion: 43 Resp: 298523

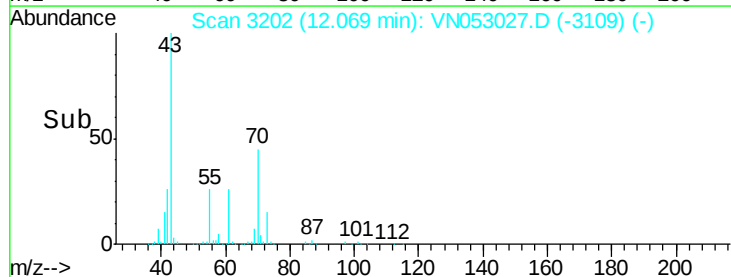
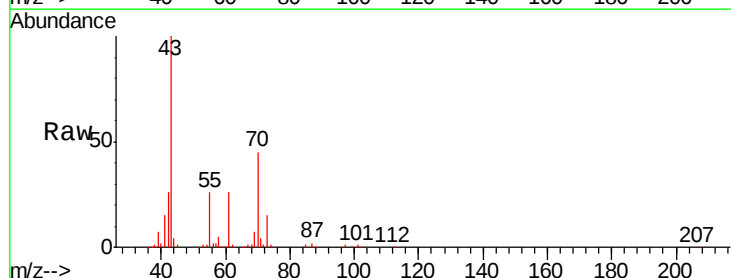
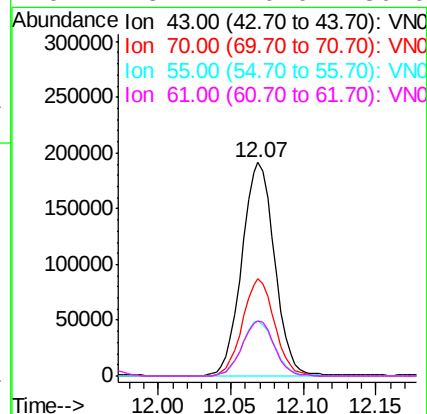
Ion Ratio Lower Upper

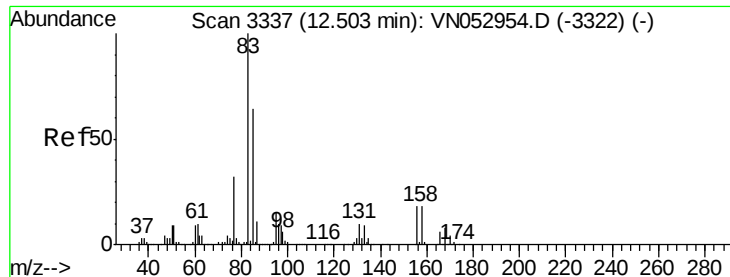
43 100

70 44.9 34.2 51.4

55 25.8 20.3 30.5

61 25.7 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.999 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

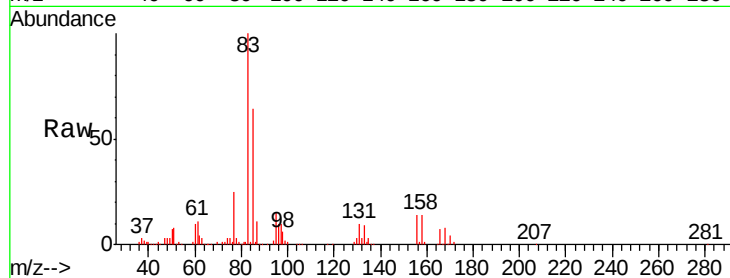
ClientSampleId :

VN1219MBSD02

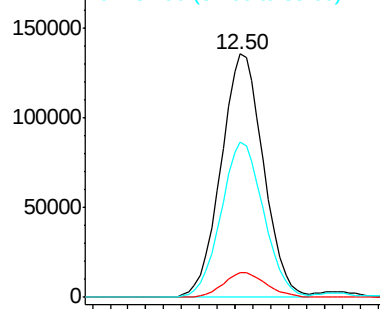
Tgt Ion:	83	Resp:	225303
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.2	15.6
85	64.2	32.4	97.0

Manual Integrations
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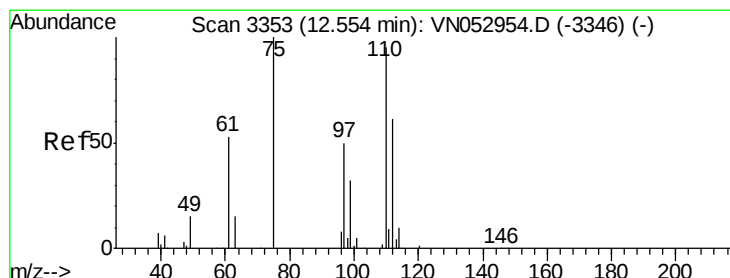
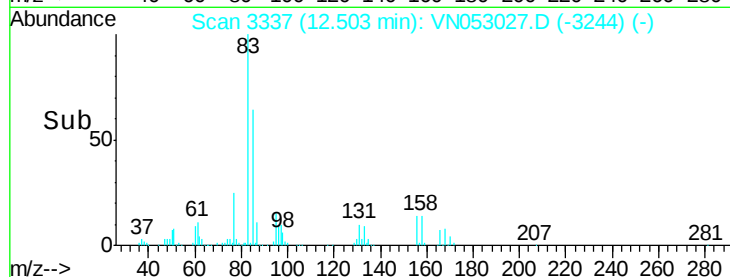
MMDadoda
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Abundance Ion 82.90 (82.60 to 83.60): VN053027.D (-3244) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 17.919 ug/l m

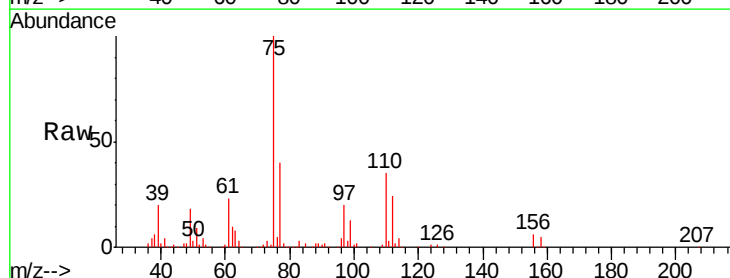
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

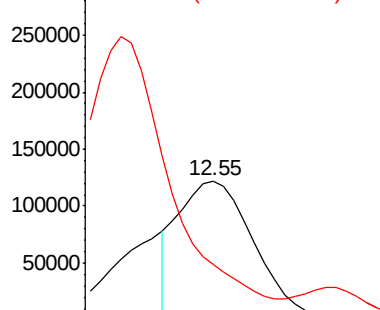
Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

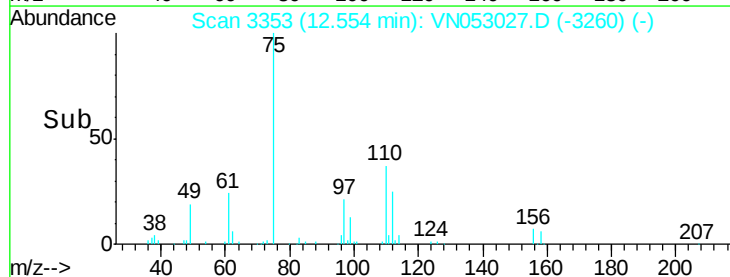
Tgt Ion:	75	Resp:	201256
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

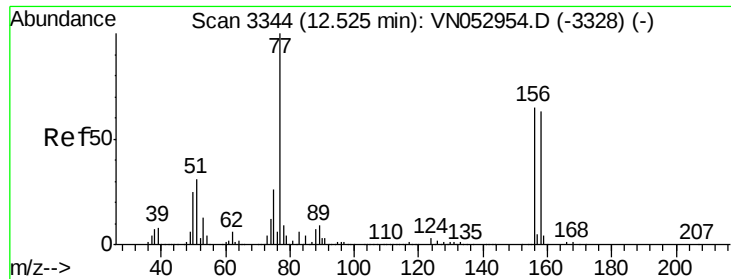


Abundance Ion 74.90 (74.60 to 75.60): VN053027.D (-3260) (-)



Time-->





#77

Bromobenzene

Concen: 20.503 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

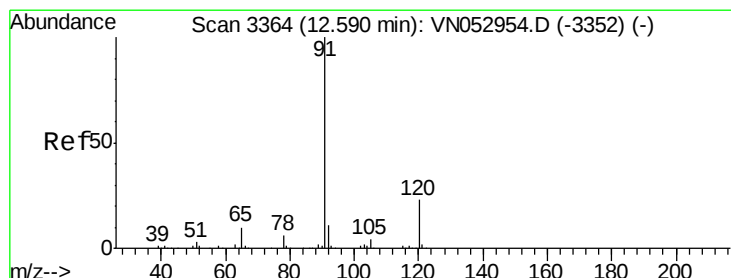
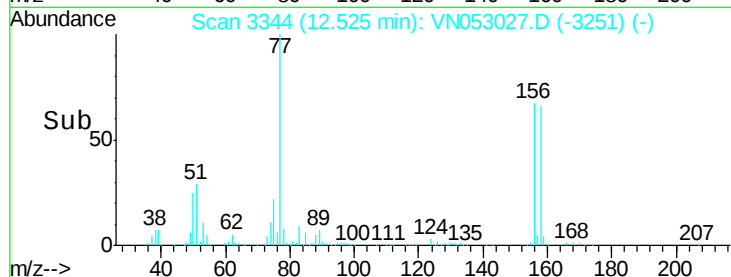
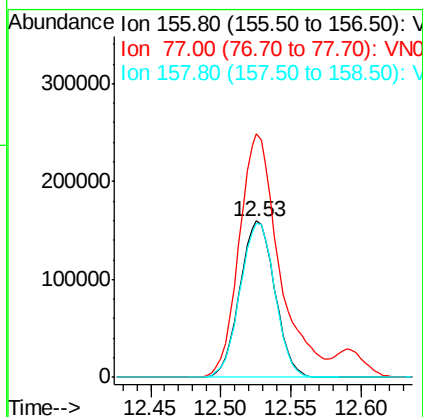
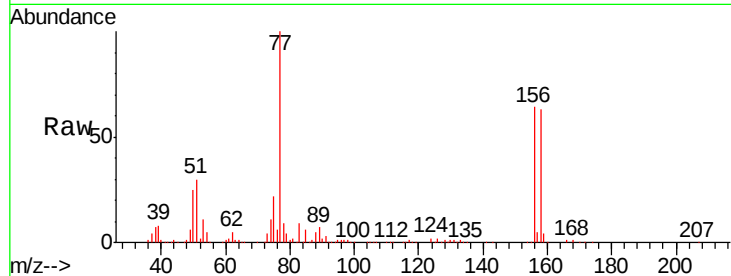
ClientSampleId :

VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
156	100		
77	178.6	91.3	273.8
158	97.9	49.0	147.2

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#78

n-propylbenzene

Concen: 20.330 ug/l

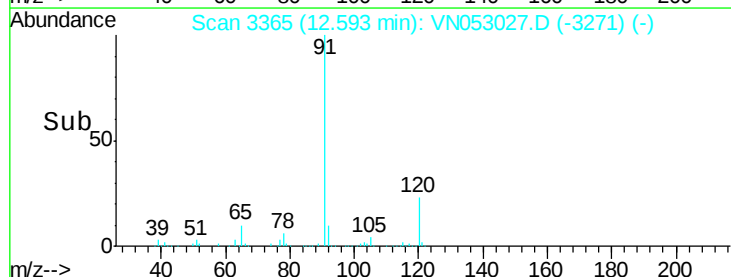
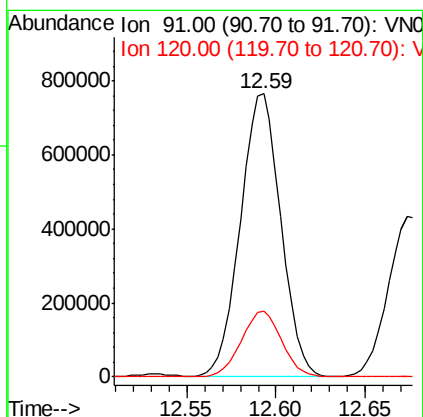
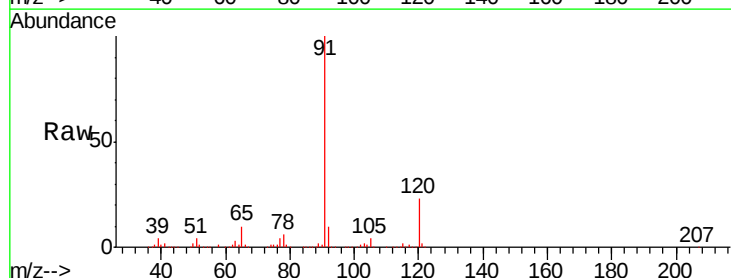
RT: 12.59 min Scan# 3365

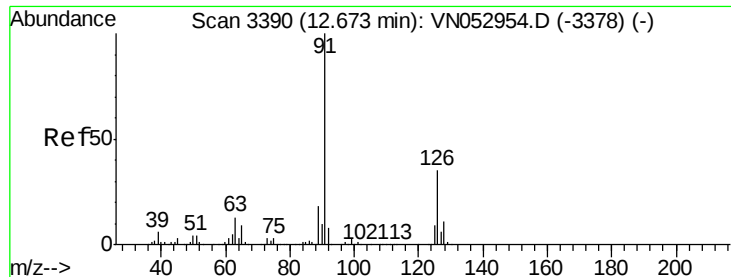
Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.1	11.5	34.5





#79

2-Chlorotoluene

Concen: 19.605 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion: 91 Resp: 722493

Ion Ratio Lower Upper

91 100

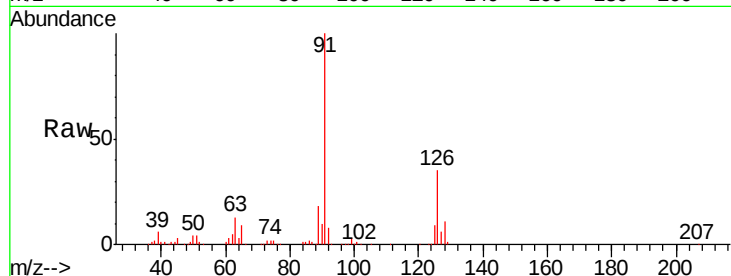
126 35.2 17.4 52.3

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN053027.D (-3297) (-)

Ion 125.90 (125.60 to 126.60): VN053027.D (-3297) (-)

600000

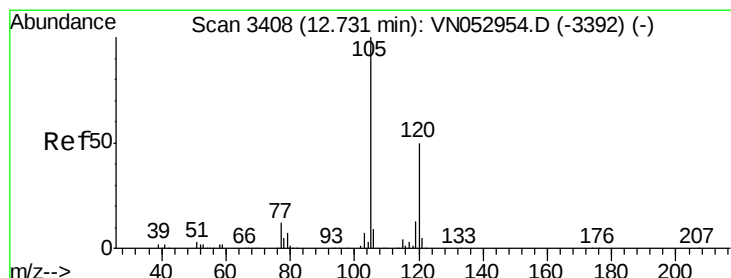
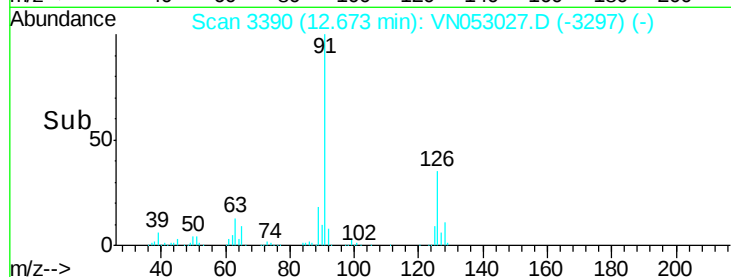
400000

200000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.292 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN053027.D

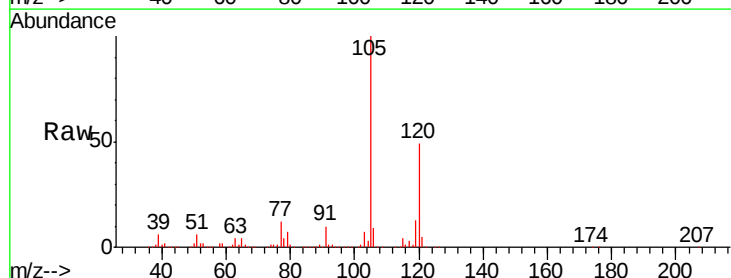
Acq: 19 Dec 2018 23:16

Tgt Ion: 105 Resp: 863424

Ion Ratio Lower Upper

105 100

120 49.1 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): VN053027.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053027.D (-3315) (-)

600000

500000

400000

300000

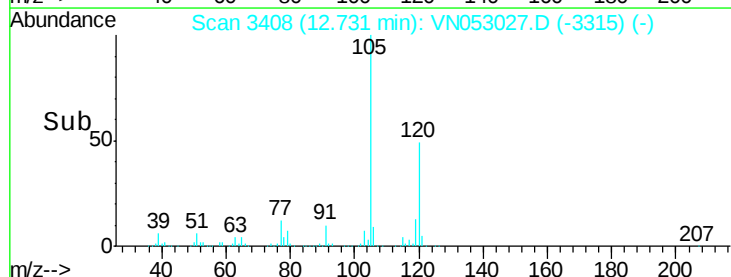
200000

100000

0

12.70 12.80

Time-->





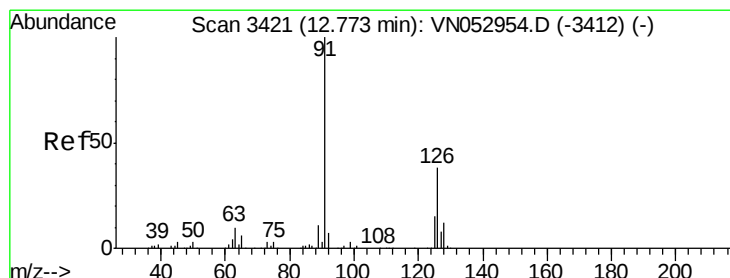
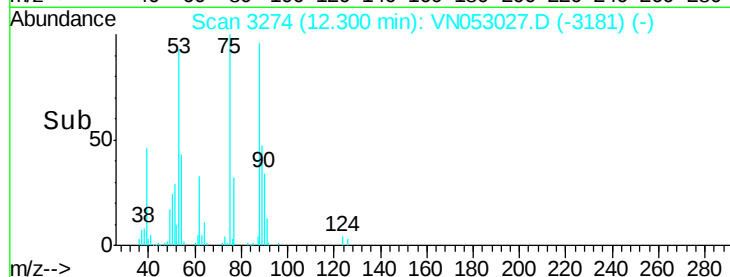
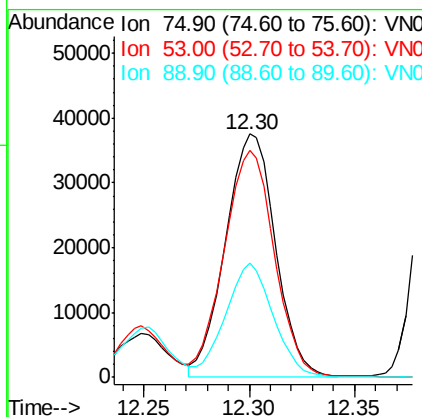
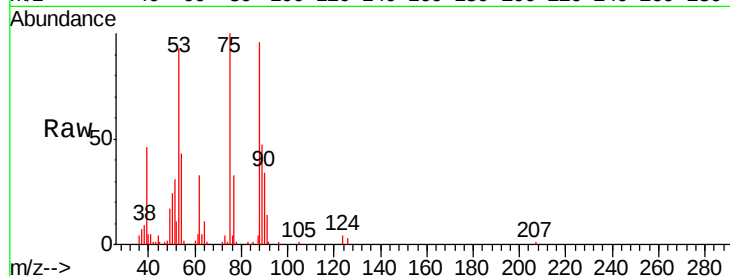
#81
trans-1,4-Dichloro-2-butene
Concen: 17.813 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
75	100		
53	94.1	74.7	112.1
89	44.9	36.1	54.1

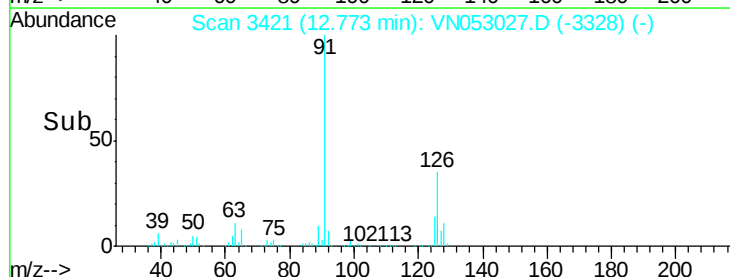
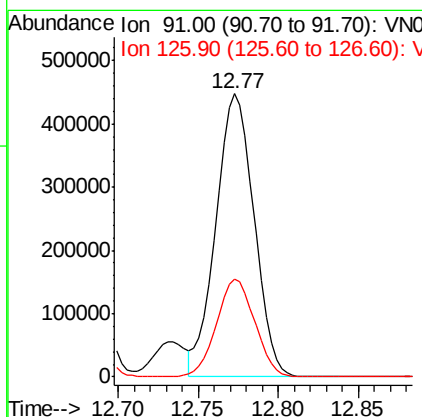
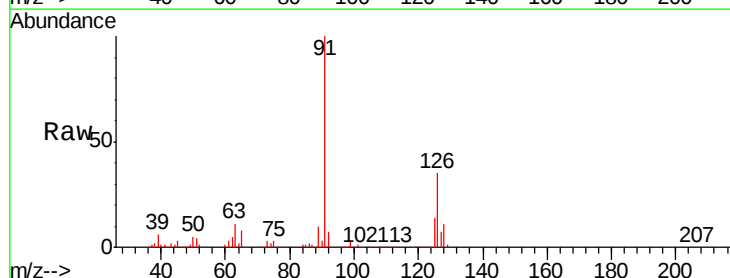
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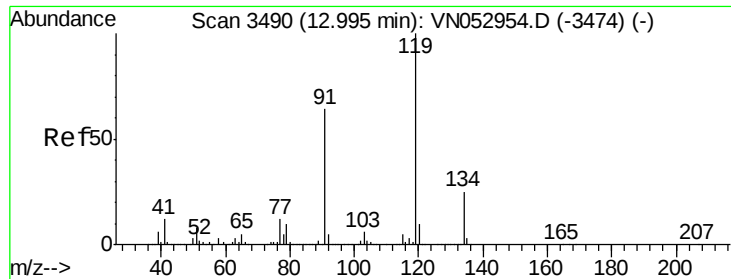
MMDadoda
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#82
4-Chlorotoluene
Concen: 20.324 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.5	17.3	51.7





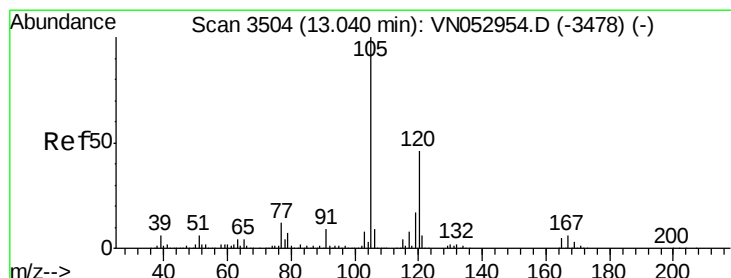
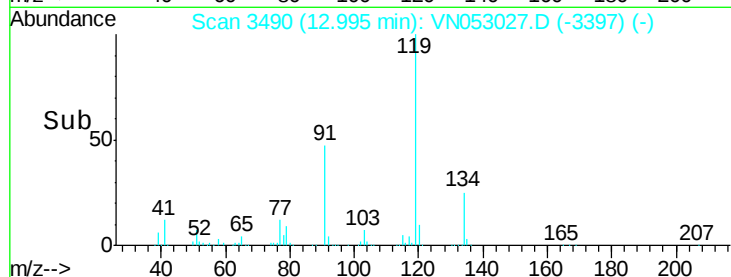
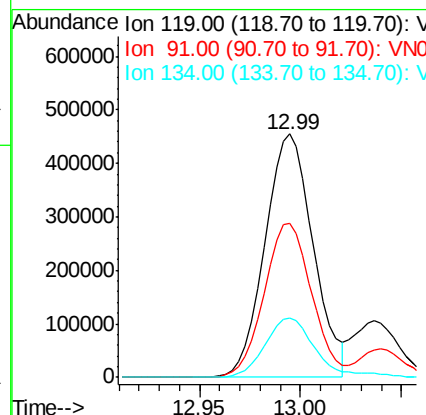
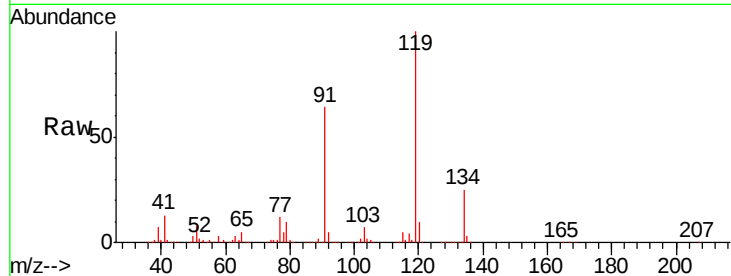
#83
 tert-Butylbenzene
 Concen: 20.090 ug/l
 RT: 12.99 min Scan# 3490
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	756005		
91	62.8	31.9	95.5	
134	25.6	12.8	38.4	

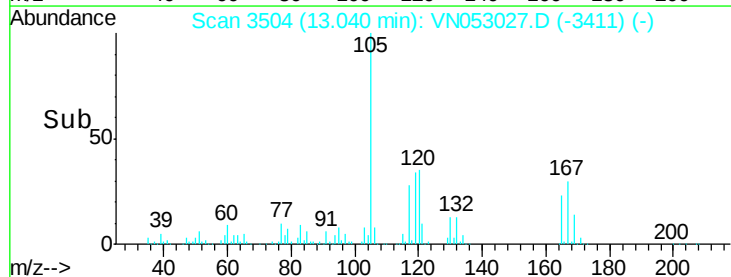
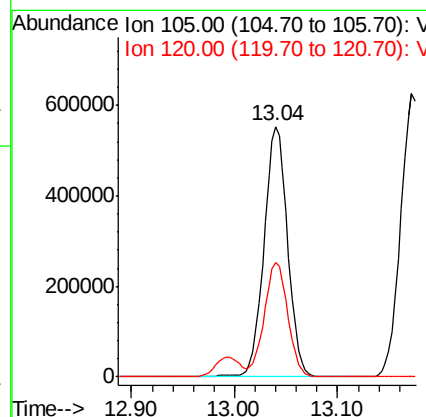
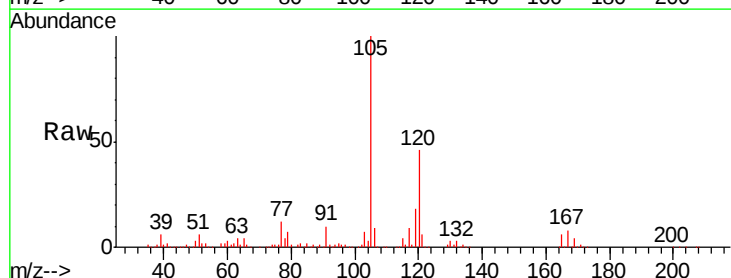
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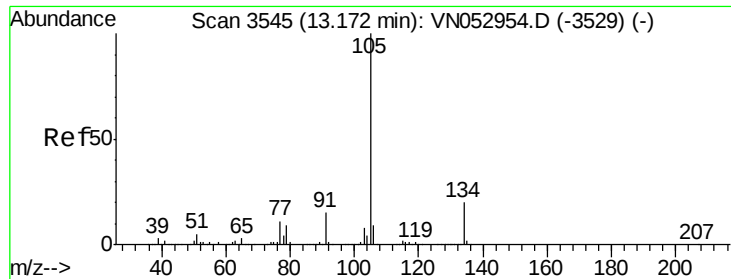
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.351 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	870498		
120	45.9	22.9	68.8	





#85

sec-Butylbenzene

Concen: 19.435 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

ClientSampleId :

VN1219MBSD02

Tgt Ion:105 Resp: 989256

Ion Ratio Lower Upper

105 100

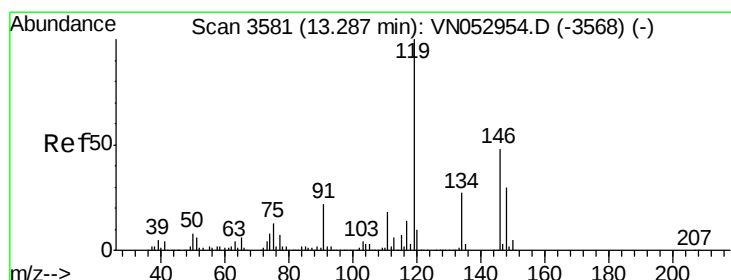
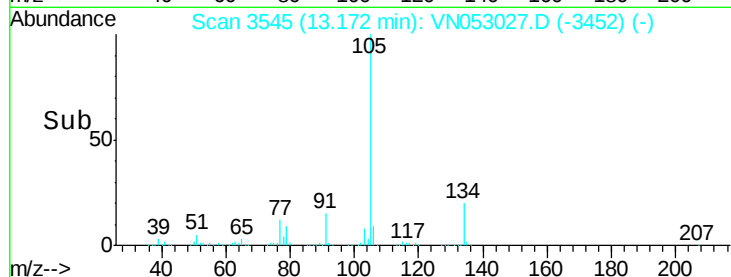
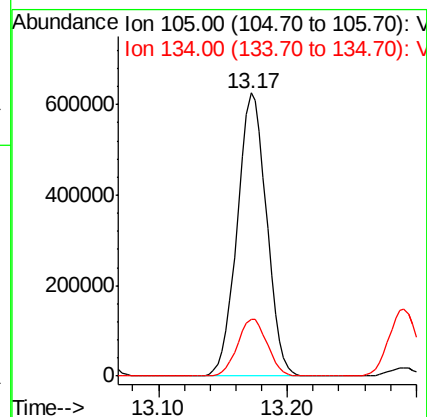
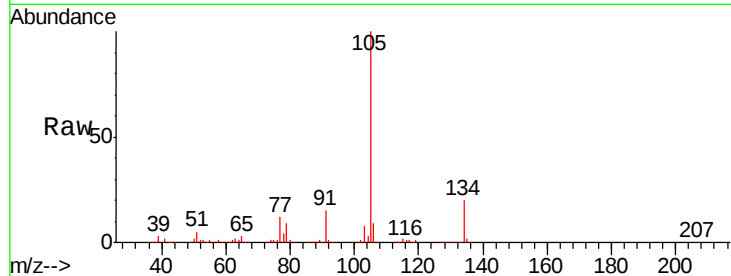
134 20.5 10.1 30.3

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#86

p-Isopropyltoluene

Concen: 19.429 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

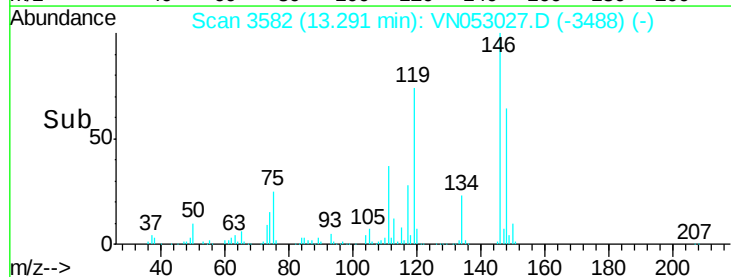
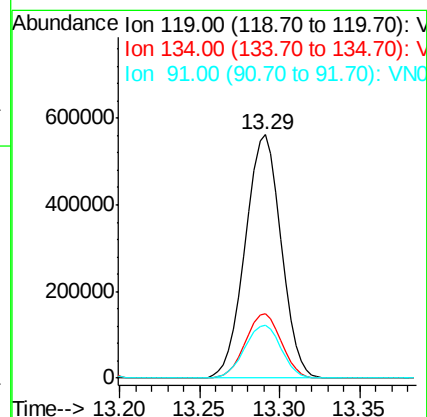
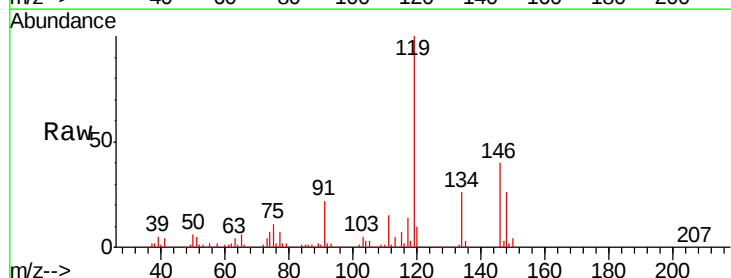
Tgt Ion:119 Resp: 854511

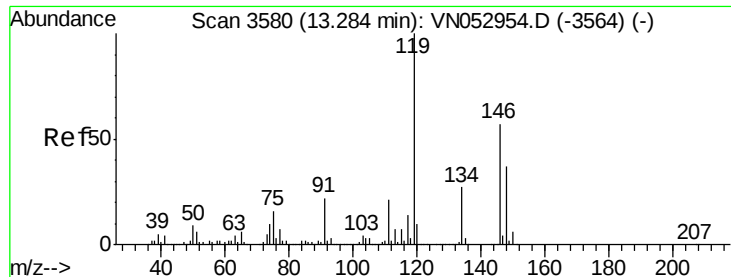
Ion Ratio Lower Upper

119 100

134 26.6 13.4 40.2

91 22.1 11.1 33.3





#87

1,3-Dichlorobenzene

Concen: 19.746 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

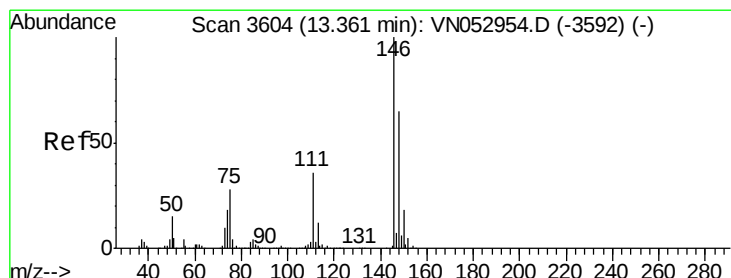
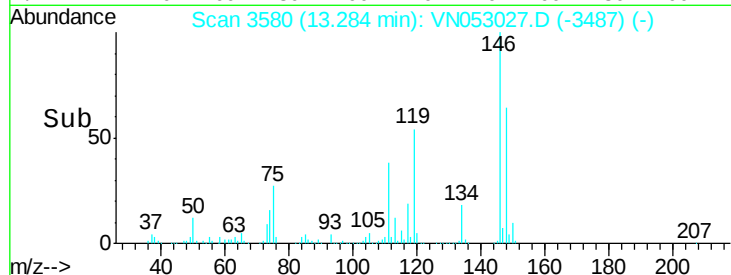
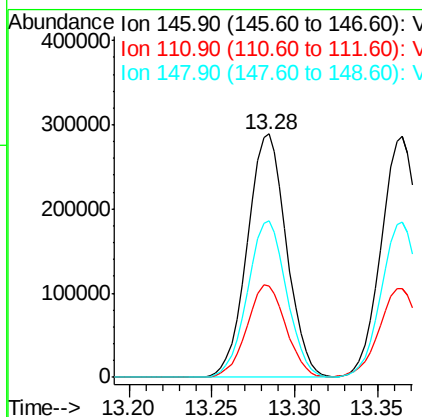
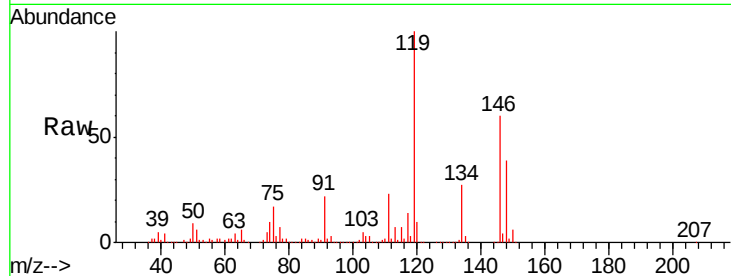
ClientSampleId :

VN1219MBS02

Tgt Ion:	146	Resp:	474250
Ion Ratio	Lower	Upper	
146	100		
111	37.9	19.1	57.1
148	64.2	32.0	96.0

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#88

1,4-Dichlorobenzene

Concen: 19.033 ug/l

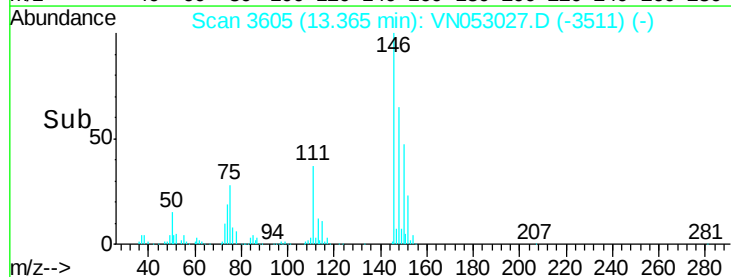
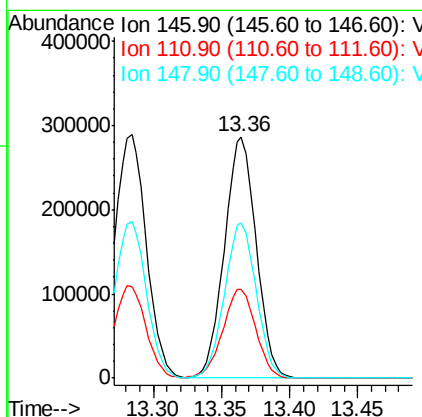
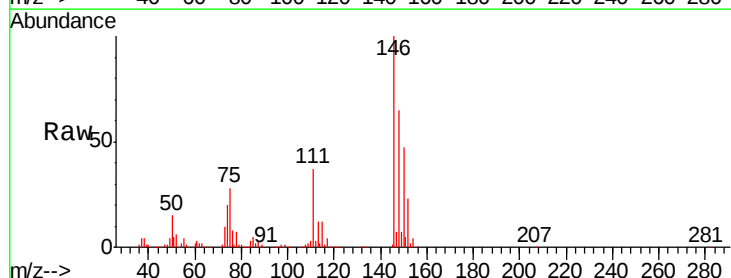
RT: 13.36 min Scan# 3605

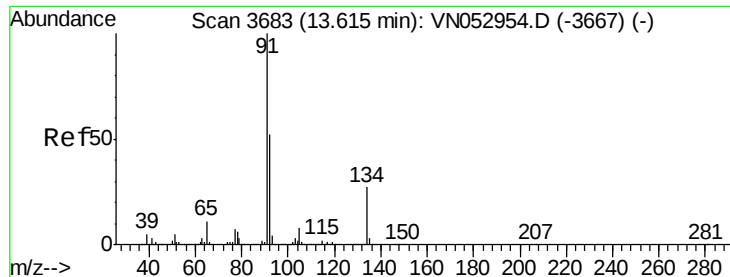
Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion:	146	Resp:	462914
Ion Ratio	Lower	Upper	
146	100		
111	38.4	18.6	55.8
148	64.5	32.1	96.5





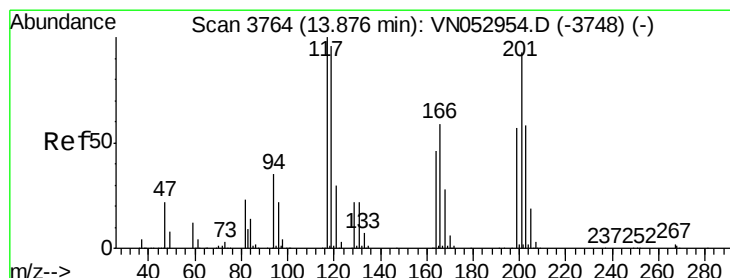
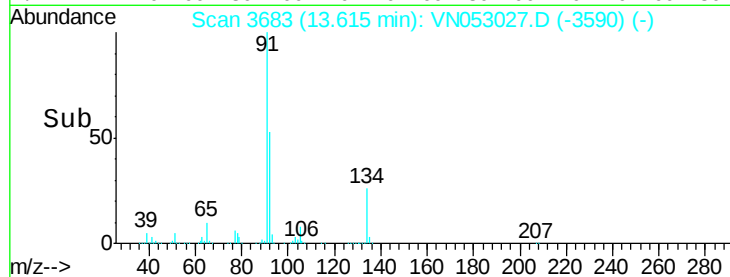
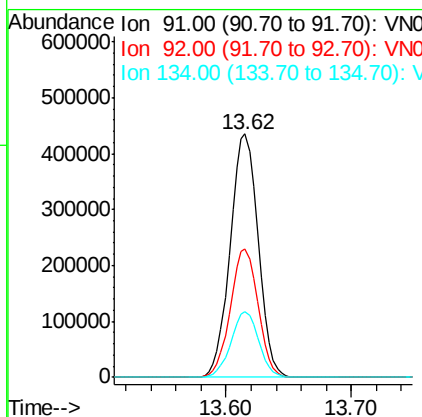
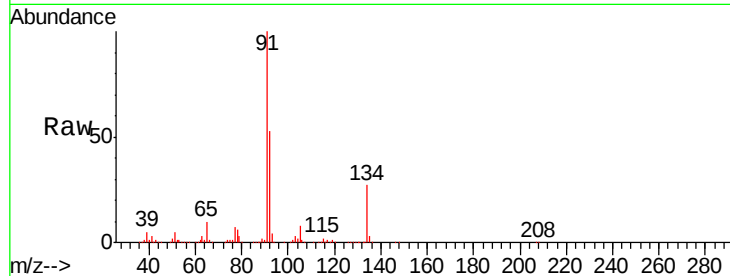
#89
n-Butylbenzene
Concen: 17.773 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Instrument :
MSVOA_N
ClientSampleId :
VN1219MBSD02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.4	26.3	78.9
134	26.6	13.3	39.8

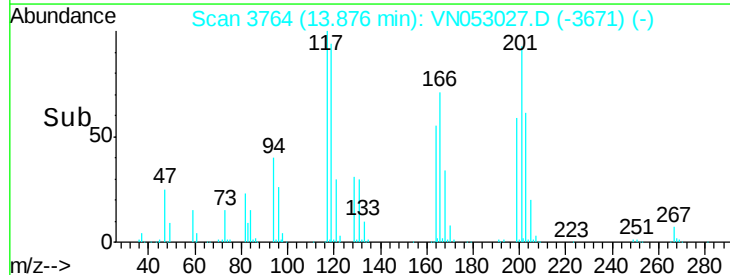
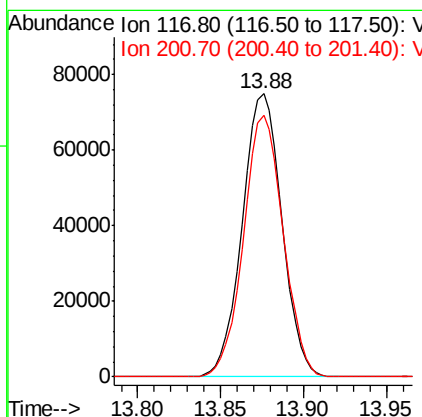
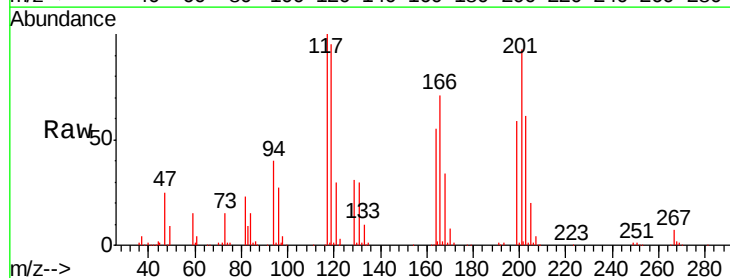
Manual Integrations
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#90
Hexachloroethane
Concen: 18.454 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN053027.D
Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.2	45.7	137.1





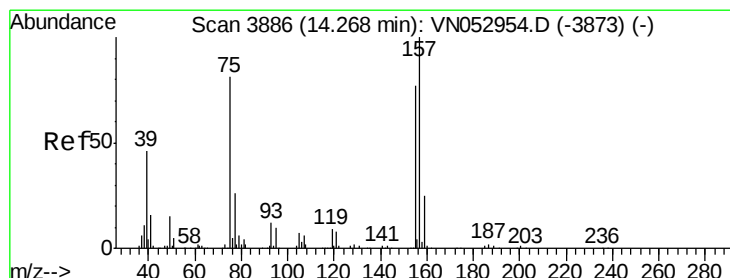
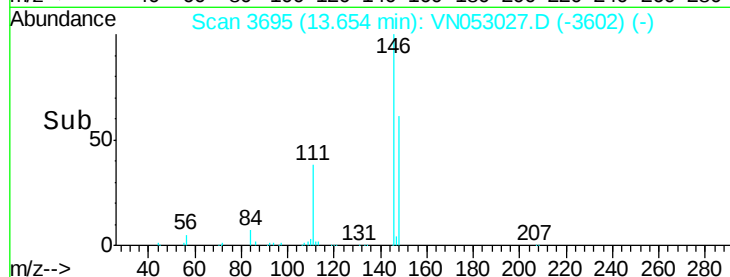
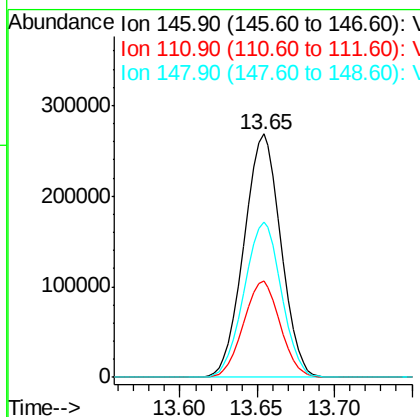
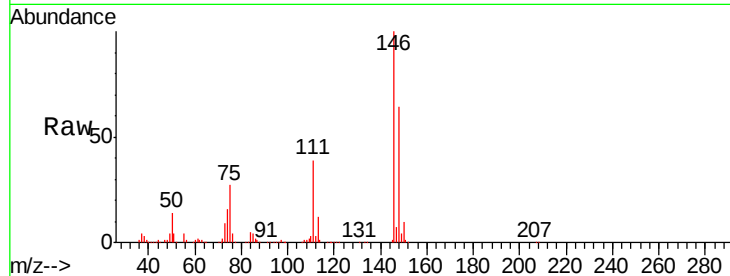
#91
 1,2-Dichlorobenzene
 Concen: 19.778 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	64.3	32.0	96.0

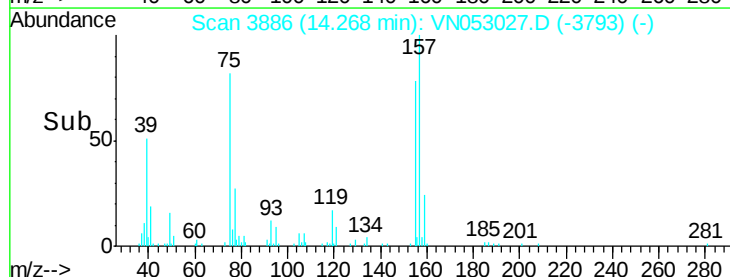
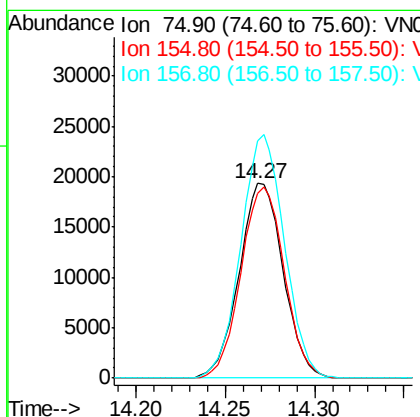
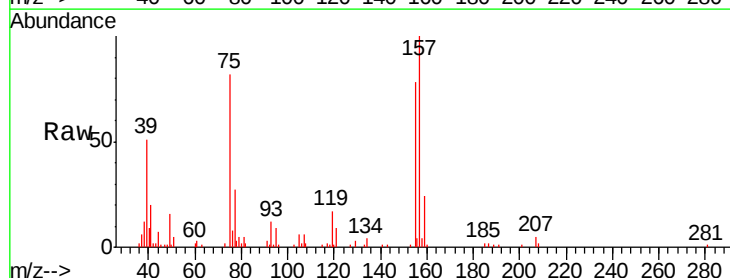
Manual Integrations
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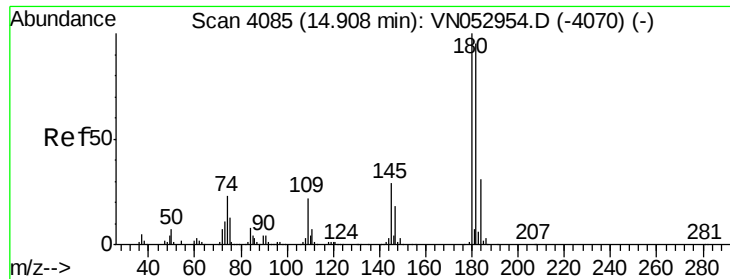
MMDadoda
 12/20/2018 4:58:56 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.851 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.6	48.2	144.6
157	123.3	61.2	183.5





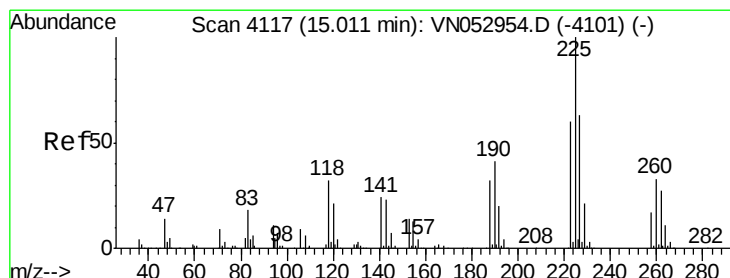
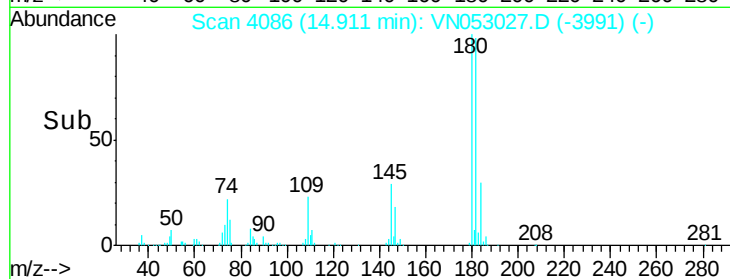
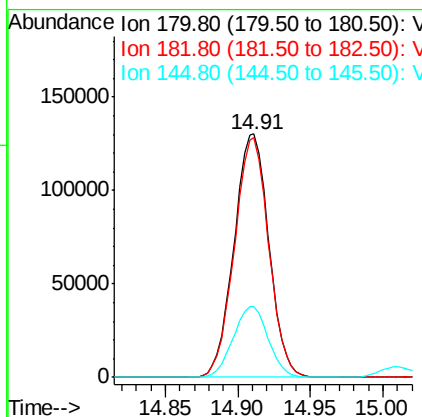
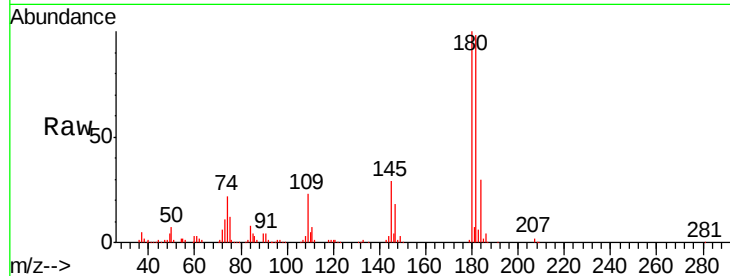
#93
 1,2,4-Trichlorobenzene
 Concen: 18.522 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1219MBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	217266		
182	96.7	47.8	143.3	
145	29.2	14.2	42.6	

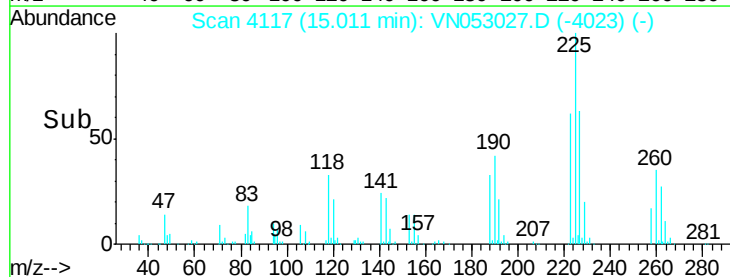
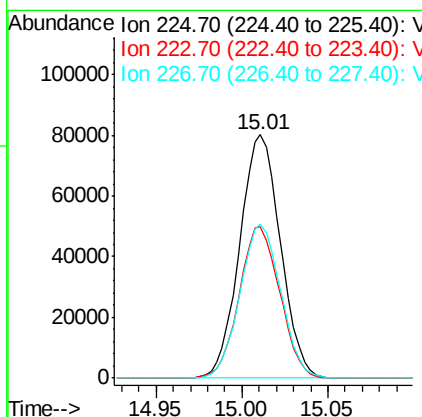
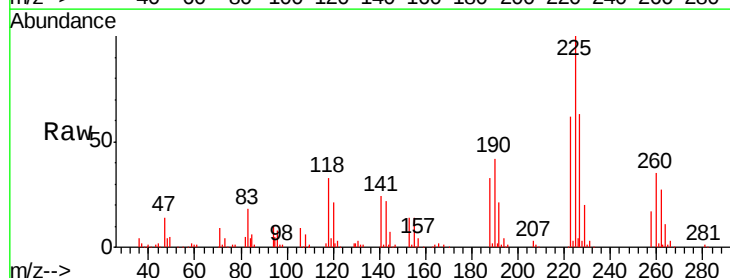
Manual Integrations
 APPROVED

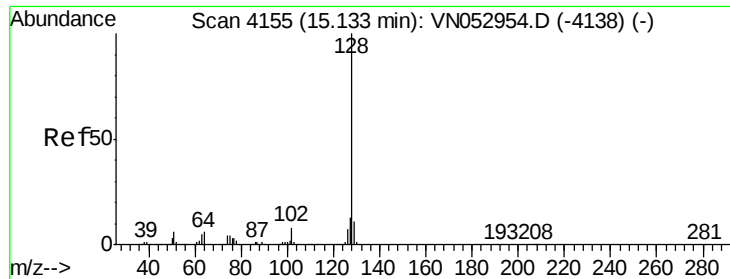
MMDadoda
 12/20/2018 4:58:56 PM



#94
 Hexachlorobutadiene
 Concen: 19.477 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053027.D
 Acq: 19 Dec 2018 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	131638		
223	62.0	31.5	94.5	
227	63.1	31.9	95.7	





#95

Naphthalene

Concen: 18.798 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Instrument :

MSVOA_N

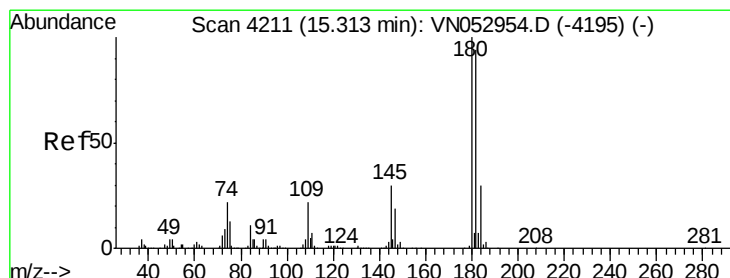
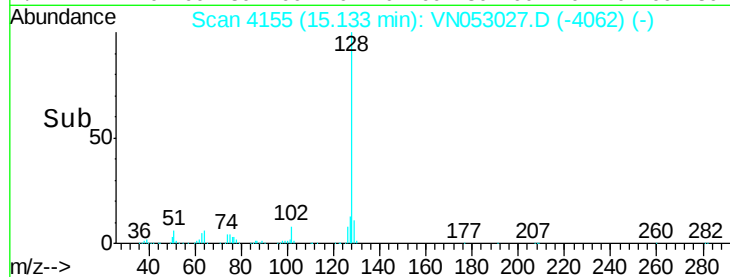
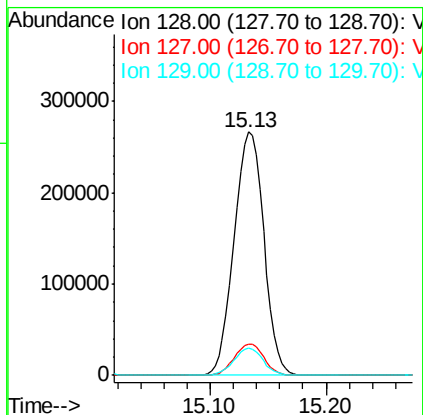
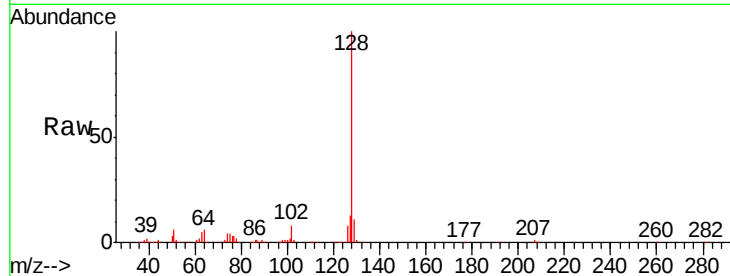
ClientSampleId :

VN1219MBS02

Tgt Ion:	128	Resp:	473922
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/20/2018 4:58:56 PM



#96

1,2,3-Trichlorobenzene

Concen: 18.736 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN053027.D

Acq: 19 Dec 2018 23:16

Tgt Ion:	180	Resp:	198585
Ion Ratio	Lower	Upper	
180	100		
182	95.7	47.9	143.7
145	30.2	15.0	45.0

