

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021220\
 Data File : VN060067.D
 Acq On : 12 Feb 2020 11:42
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 2/13/2020 10:37:00 AM

Quant Time: Feb 12 14:06:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 12:49:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	195565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	306245	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	282817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	129696	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	11901	5.08	ug/l	0.00
Spiked Amount			Recovery	=	10.16%	
35) Dibromofluoromethane	7.56	113	8786	4.81	ug/l	0.00
Spiked Amount			Recovery	=	9.62%	
50) Toluene-d8	10.08	98	35663	4.92	ug/l	0.00
Spiked Amount			Recovery	=	9.84%	
62) 4-Bromofluorobenzene	12.40	95	12782	4.91	ug/l	0.00
Spiked Amount			Recovery	=	9.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.83	85	8976	4.599	ug/l	100
3) Chloromethane	2.04	50	11219	4.745	ug/l	96
4) Vinyl Chloride	2.17	62	12811	4.775	ug/l	95
5) Bromomethane	2.54	94	8975	5.044	ug/l	99
6) Chloroethane	2.68	64	6568	4.866	ug/l	97
7) Trichlorofluoromethane	3.00	101	16975	4.919	ug/l	97
8) Diethyl Ether	3.39	74	5669	5.034	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.74	101	9486	4.946	ug/l	96
10) Methyl Iodide	3.93	142	8436	3.903	ug/l	95
11) Tert butyl alcohol	4.73	59	8064	23.507	ug/l #	91
12) 1,1-Dichloroethene	3.71	96	9080	4.948	ug/l	96
13) Acrolein	3.58	56	8047	24.285	ug/l	93
14) Allyl chloride	4.29	41	14163	5.178	ug/l	89
15) Acrylonitrile	4.95	53	20131	24.273	ug/l	98
16) Acetone	3.79	43	22009	25.183	ug/l	99
17) Carbon Disulfide	4.03	76	26193	4.689	ug/l	96
18) Methyl Acetate	4.29	43	9480	4.997	ug/l	94
19) Methyl tert-butyl Ether	5.01	73	29883	4.834	ug/l	97
20) Methylene Chloride	4.52	84	10106	4.868	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	10121	5.630	ug/l	97
22) Diisopropyl ether	5.91	45	27782	4.758	ug/l	95
23) Vinyl Acetate	5.86	43	112821	23.305	ug/l	99
24) 1,1-Dichloroethane	5.82	63	17677	4.902	ug/l	99
25) 2-Butanone	6.81	43	29173	23.206	ug/l	97
26) 2,2-Dichloropropane	6.80	77	16694	4.859	ug/l	84
27) cis-1,2-Dichloroethene	6.80	96	11359	5.452	ug/l	99
28) Bromochloromethane	7.17	49	6756	5.361	ug/l #	95
29) Tetrahydrofuran	7.18	42	18907	24.328	ug/l	98
30) Chloroform	7.35	83	18399	4.867	ug/l	100
31) Cyclohexane	7.63	56	19315	5.593	ug/l #	84
32) 1,1,1-Trichloroethane	7.54	97	16520	4.795	ug/l	99
36) 1,1-Dichloropropene	7.77	75	13417	4.733	ug/l	99
37) Ethyl Acetate	6.90	43	13230	5.315	ug/l #	95
38) Carbon Tetrachloride	7.75	117	14677	4.772	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.06	83	16622	4.732	ug/l	97
40) Benzene	8.02	78	40757	4.809	ug/l	95
41) Methacrylonitrile	7.15	41	5198m	3.183	ug/l	
42) 1,2-Dichloroethane	8.10	62	14180	4.832	ug/l	98
43) Isopropyl Acetate	8.14	43	20926	4.898	ug/l #	90
44) Trichloroethene	8.81	130	11496	4.889	ug/l	98
45) 1,2-Dichloropropane	9.10	63	10124	4.870	ug/l	99
46) Dibromomethane	9.19	93	7158	4.900	ug/l	99
47) Bromodichloromethane	9.38	83	14200	4.791	ug/l	98
48) Methyl methacrylate	9.18	41	8600	4.540	ug/l	95
49) 1,4-Dioxane	9.18	88	2969	93.407	ug/l	99
51) 4-Methyl-2-Pentanone	9.97	43	57855	23.552	ug/l	98
52) Toluene	10.14	92	25605	4.788	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	15824	4.826	ug/l	96
54) cis-1,3-Dichloropropene	9.83	75	16801	4.794	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	9994	4.758	ug/l	95
56) Ethyl methacrylate	10.42	69	12413	4.442	ug/l	96
57) 1,3-Dichloropropane	10.70	76	16660	4.797	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.68	63	33812	25.662	ug/l	100
59) 2-Hexanone	10.74	43	42273	22.561	ug/l	99
60) Dibromochloromethane	10.89	129	10955	4.661	ug/l	97
61) 1,2-Dibromoethane	10.99	107	10208	4.727	ug/l	99
64) Tetrachloroethene	10.62	164	10572	4.765	ug/l	98
65) Chlorobenzene	11.43	112	27850	4.811	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.50	131	10636	4.909	ug/l	99
67) Ethyl Benzene	11.50	91	49508	4.754	ug/l	99
68) m/p-Xylenes	11.62	106	36881	9.517	ug/l	100
69) o-Xylene	11.94	106	18037	4.843	ug/l	98
70) Styrene	11.96	104	27060	4.684	ug/l	99
71) Bromoform	12.12	173	7535	4.530	ug/l #	100
73) Isopropylbenzene	12.25	105	47057	4.744	ug/l	97
74) N-amyl acetate	12.07	43	15271	4.513	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	13482	4.801	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	11959m	3.392	ug/l	
77) Bromobenzene	12.52	156	12052	4.936	ug/l	99
78) n-propylbenzene	12.59	91	53426	4.748	ug/l	99
79) 2-Chlorotoluene	12.67	91	31944	4.810	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	39387	4.811	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	4645	4.766	ug/l	98
82) 4-Chlorotoluene	12.77	91	31870	4.739	ug/l	99
83) tert-Butylbenzene	12.99	119	35873	4.873	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	38717	4.838	ug/l	100
85) sec-Butylbenzene	13.17	105	45692	4.745	ug/l	99
86) p-Isopropyltoluene	13.29	119	41771	4.843	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	20466	4.799	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	20193	4.773	ug/l	91
89) n-Butylbenzene	13.61	91	34828	4.662	ug/l	99
90) Hexachloroethane	13.87	117	7880	4.912	ug/l	91
91) 1,2-Dichlorobenzene	13.65	146	20199	4.781	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	3073	4.576	ug/l	86

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ClientSampleId :
VSTDICC005

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	10697	4.544	ug/l	99
94) Hexachlorobutadiene	15.01	225	7335	4.940	ug/l	97
95) Naphthalene	15.13	128	28079	4.519	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	10881	4.567	ug/l	97

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

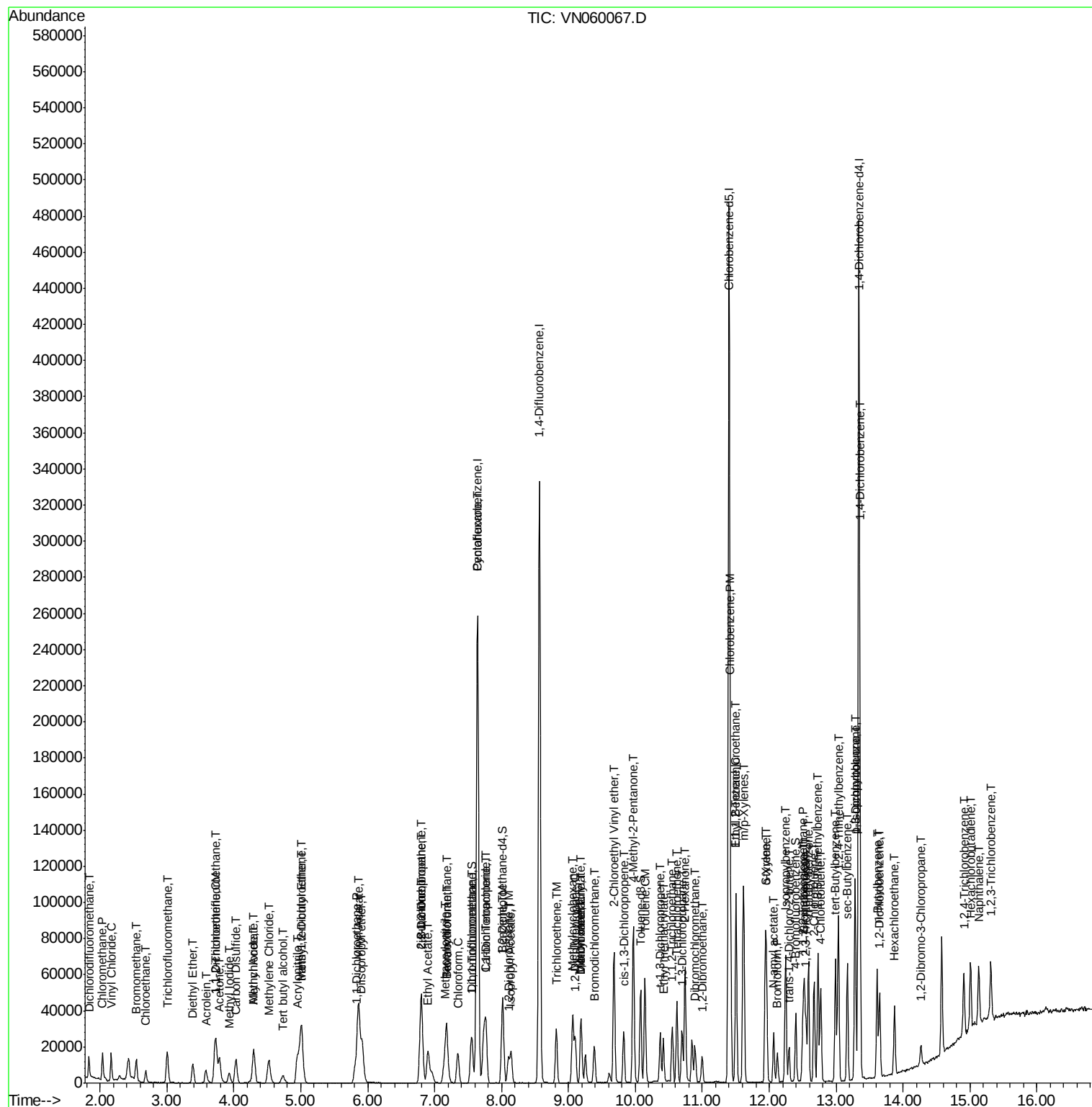
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Data File : VN060067.D
Acq On : 12 Feb 2020 11:42
Operator : JC/MD
Sample : VSTDIC005
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 3 Sample Multiplier: 1

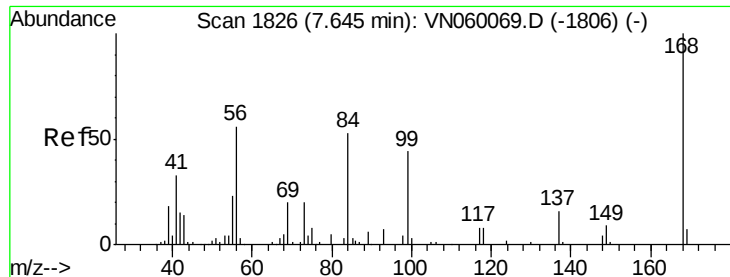
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 195565

Ion Ratio Lower Upper

168 100

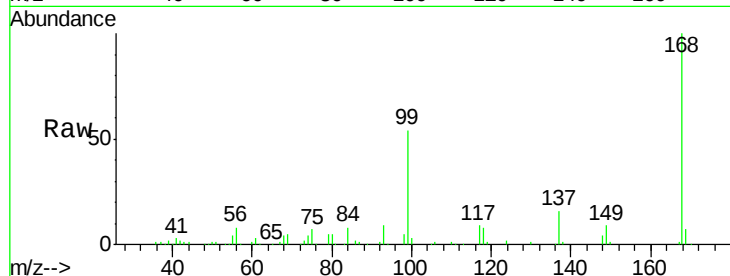
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Manual Integrations

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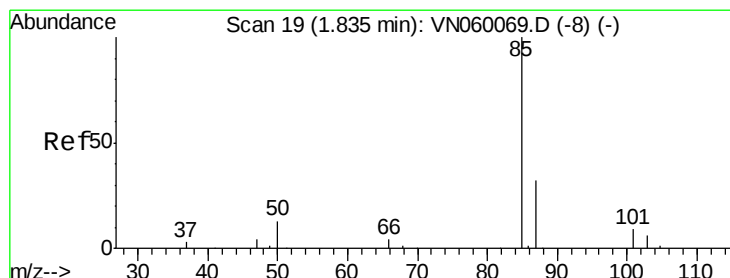
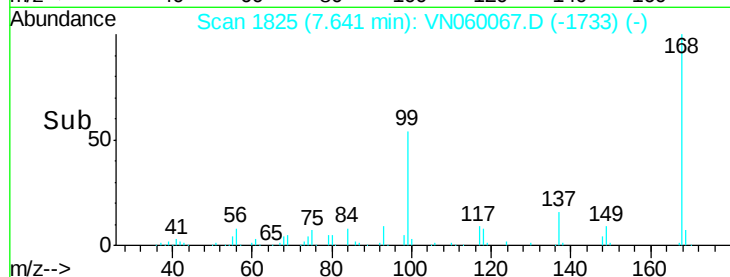
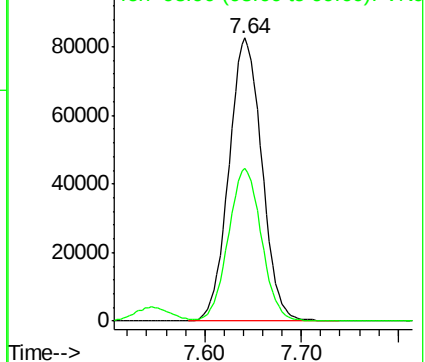
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 4.599 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN060067.D

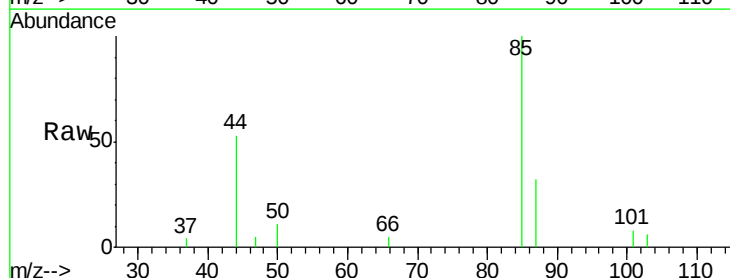
Acq: 12 Feb 2020 11:42

Tgt Ion: 85 Resp: 8976

Ion Ratio Lower Upper

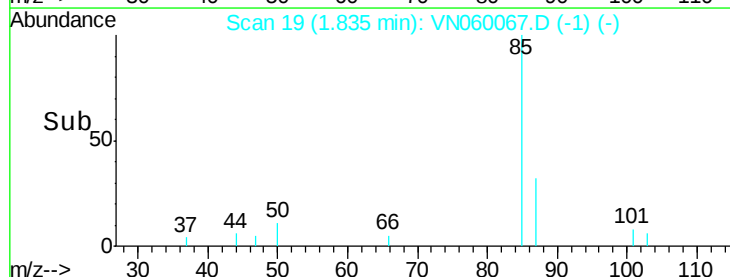
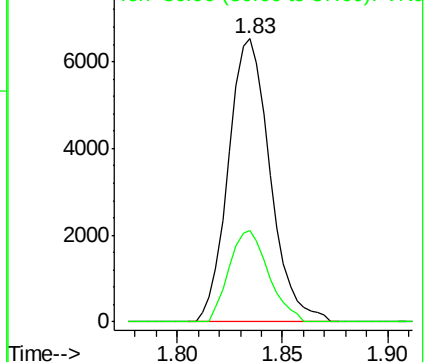
85 100

87 32.2 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 4.745 ug/l

RT: 2.04 min Scan# 82

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 11219

Ion Ratio Lower Upper

50 100

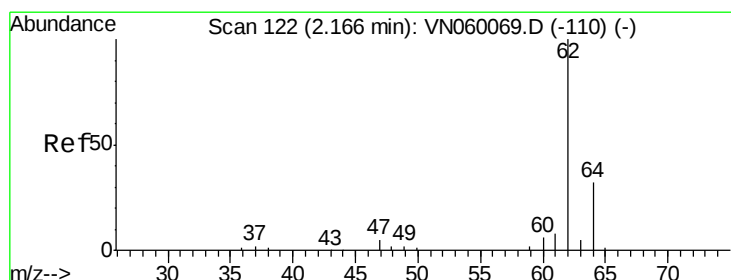
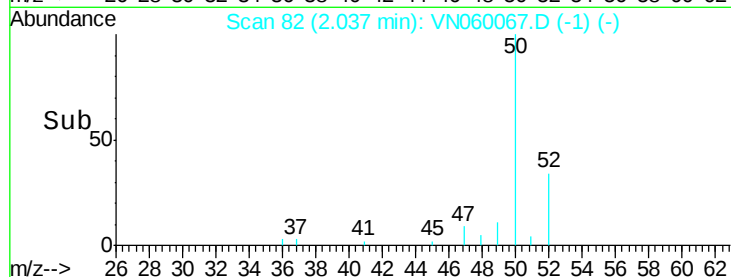
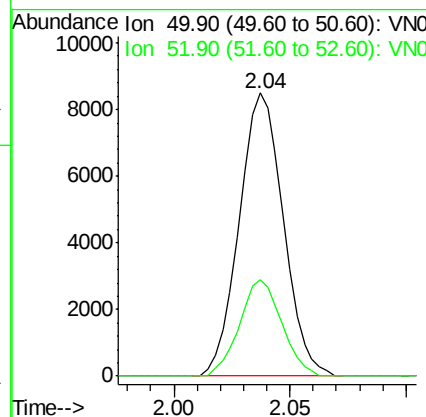
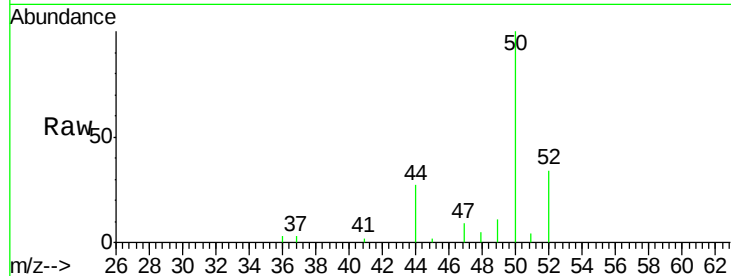
52 34.2 25.6 38.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.775 ug/l

RT: 2.17 min Scan# 122

Delta R.T. -0.00 min

Lab File: VN060067.D

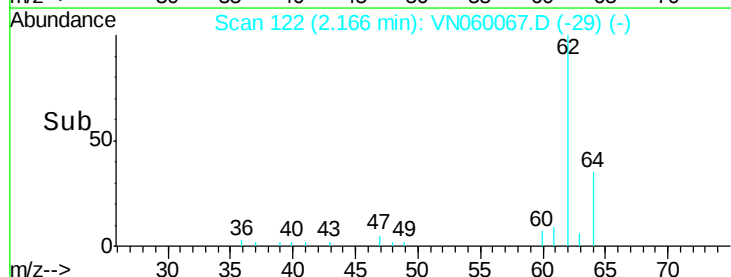
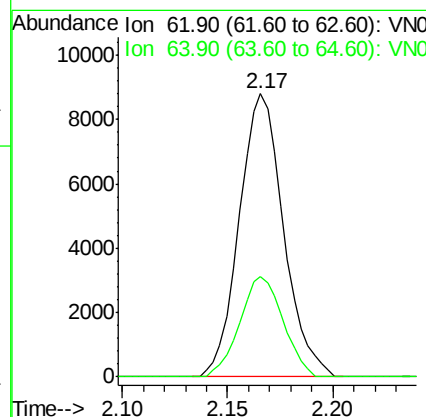
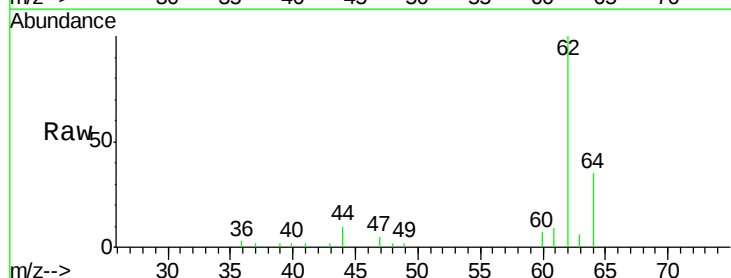
Acq: 12 Feb 2020 11:42

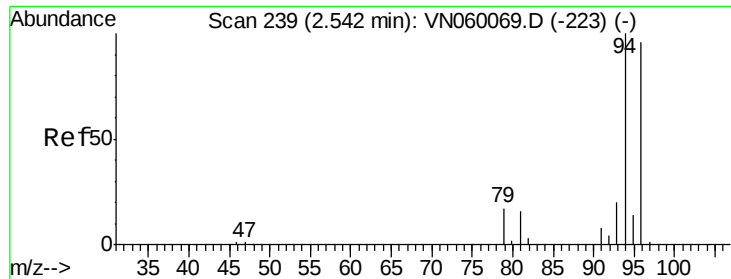
Tgt Ion: 62 Resp: 12811

Ion Ratio Lower Upper

62 100

64 35.4 25.9 38.9





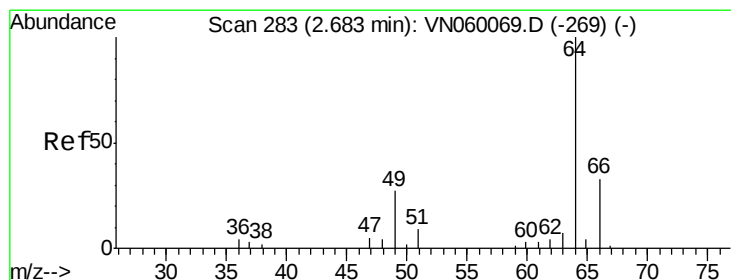
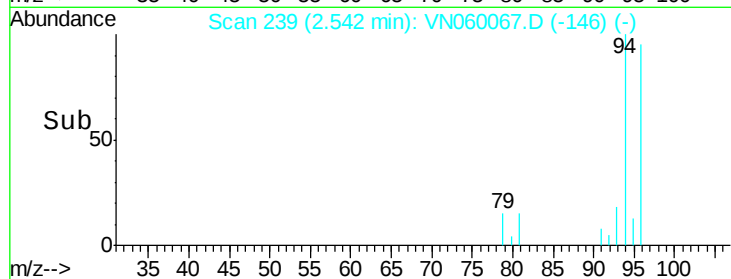
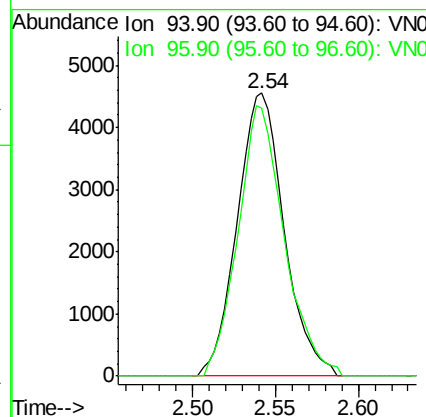
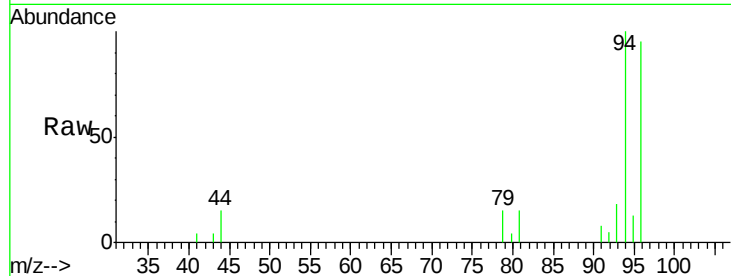
#5
Bromomethane
Concen: 5.044 ug/l
RT: 2.54 min Scan# 239
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 94 Resp: 8975
Ion Ratio Lower Upper
94 100
96 94.6 76.7 115.1

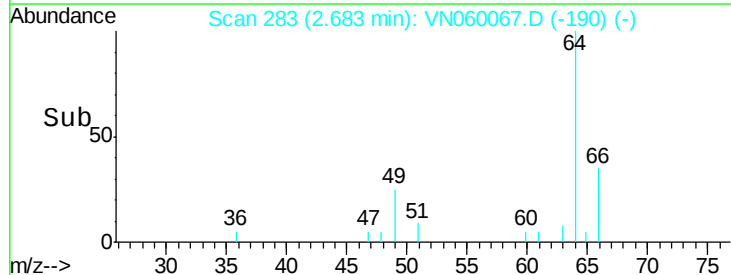
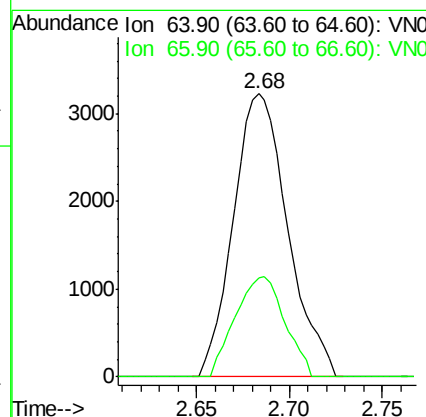
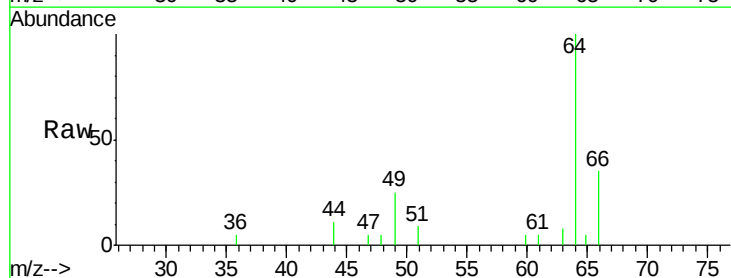
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#6
Chloroethane
Concen: 4.866 ug/l
RT: 2.68 min Scan# 283
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 64 Resp: 6568
Ion Ratio Lower Upper
64 100
66 34.9 26.6 40.0





#7

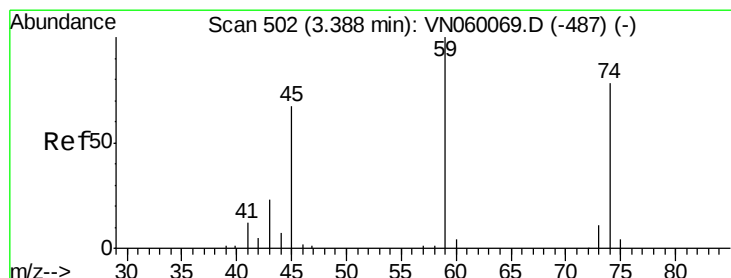
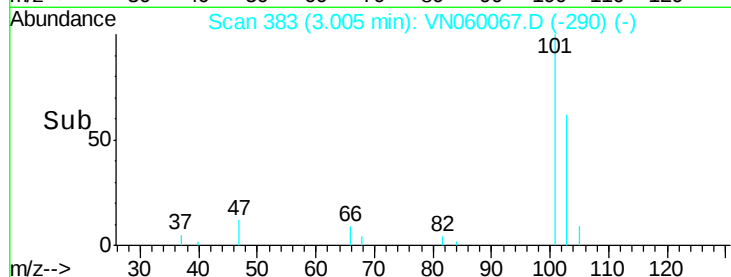
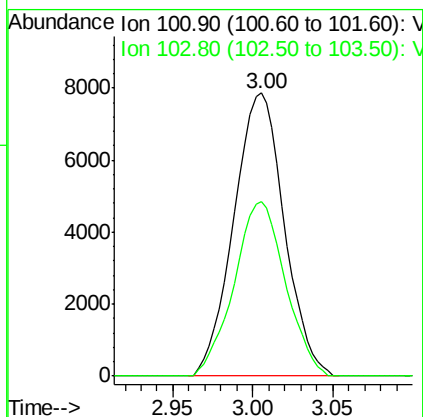
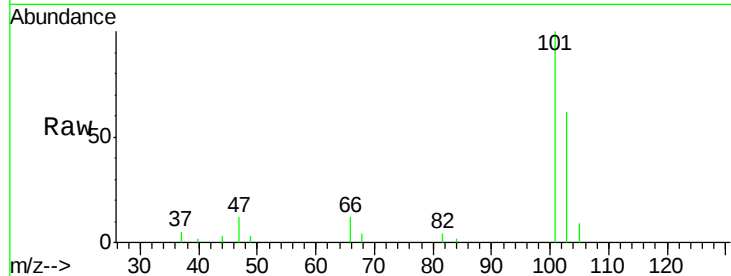
Trichlorofluoromethane
Concen: 4.919 ug/l
RT: 3.00 min Scan# 383
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 16975
Ion Ratio Lower Upper
101 100
103 61.5 51.0 76.6

Manual Integrations
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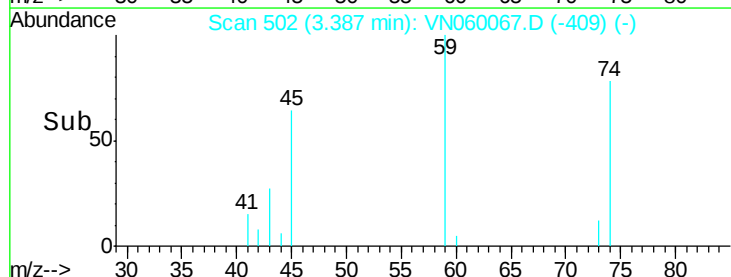
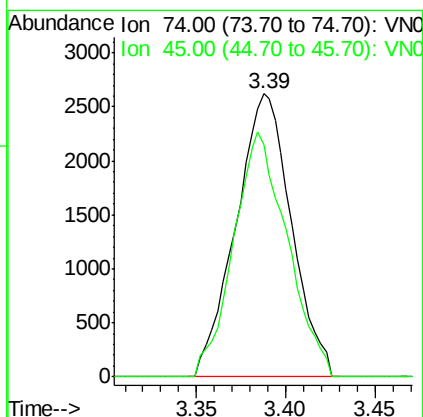
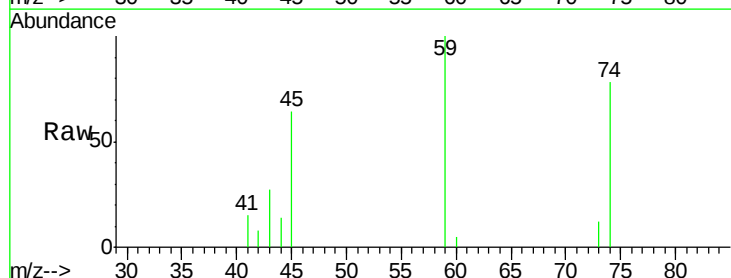
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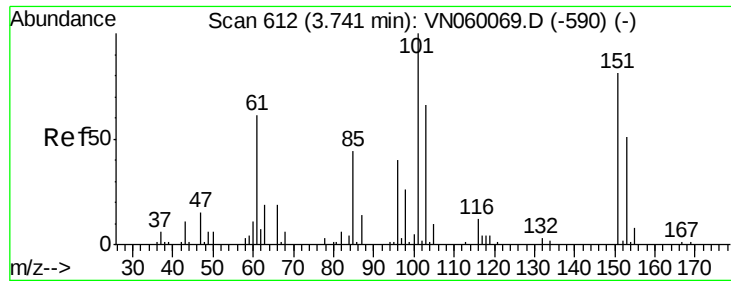


#8

Diethyl Ether
Concen: 5.034 ug/l
RT: 3.39 min Scan# 502
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 74 Resp: 5669
Ion Ratio Lower Upper
74 100
45 83.8 44.7 134.1





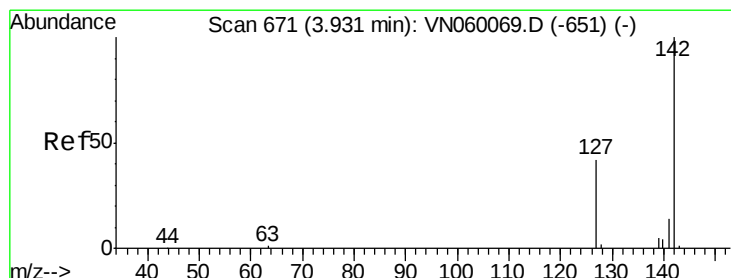
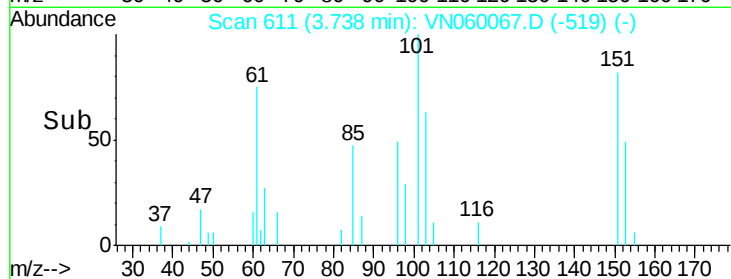
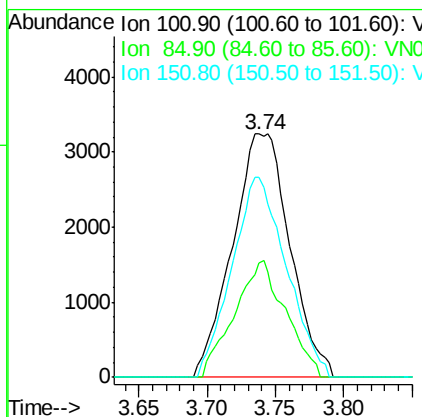
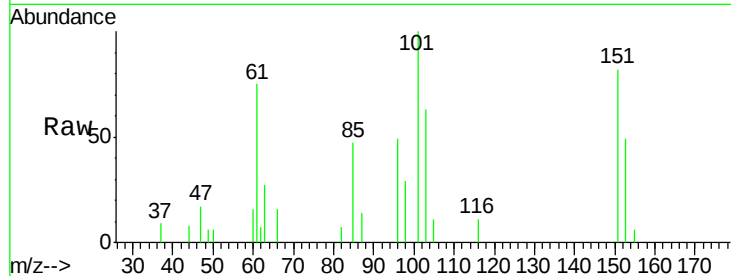
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4.946 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
85	42.8	35.1	52.7
151	77.9	65.8	98.6

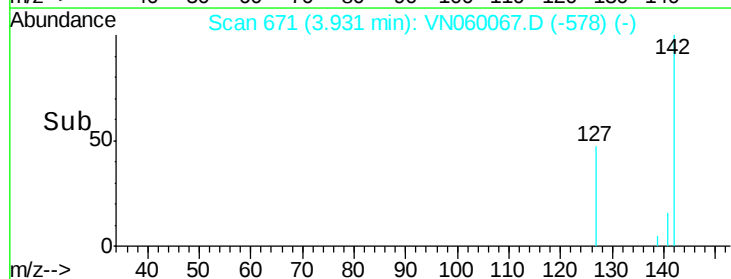
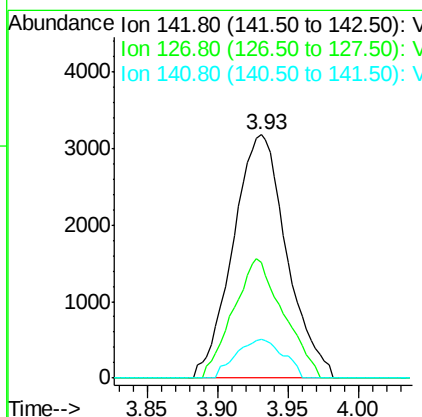
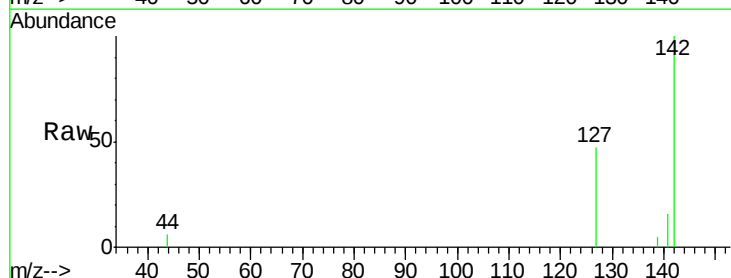
Manual Integrations
 APPROVED

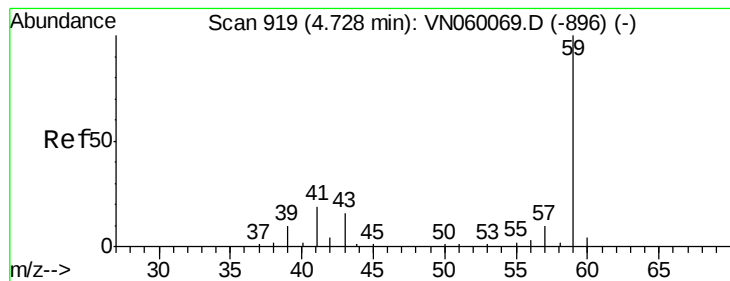
MMDadoda
 2/13/2020 10:37:00 AM



#10
 Methyl Iodide
 Concen: 3.903 ug/l
 RT: 3.93 min Scan# 671
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
142	100		
127	45.9	33.6	50.4
141	14.0	11.4	17.2





#11

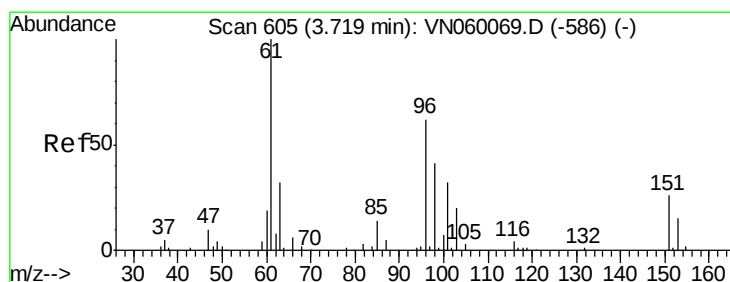
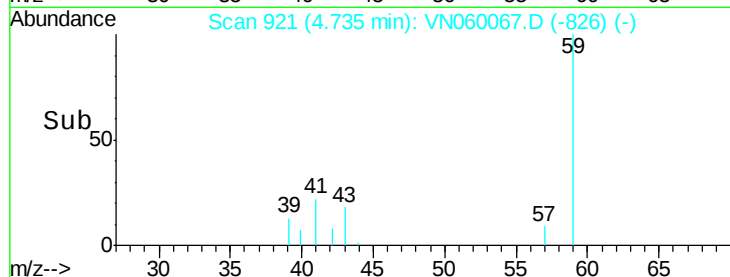
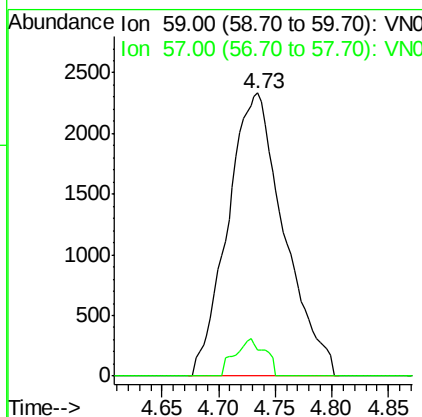
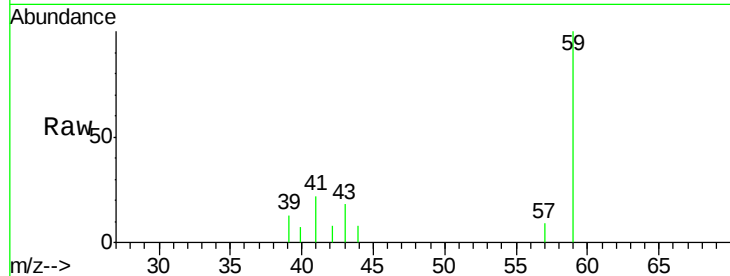
Tert butyl alcohol
 Concen: 23.507 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 59 Resp: 8064
 Ion Ratio Lower Upper
 59 100
 57 7.1 8.2 12.4#

Manual Integrations
 APPROVED

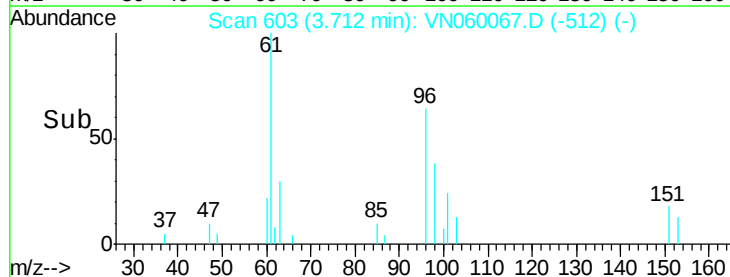
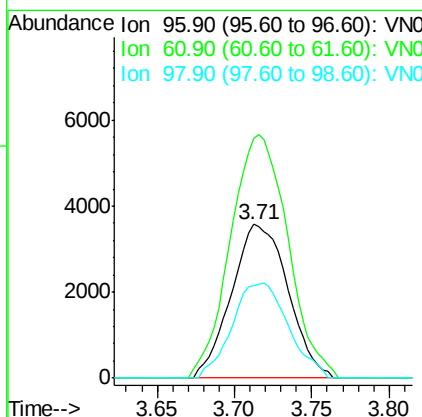
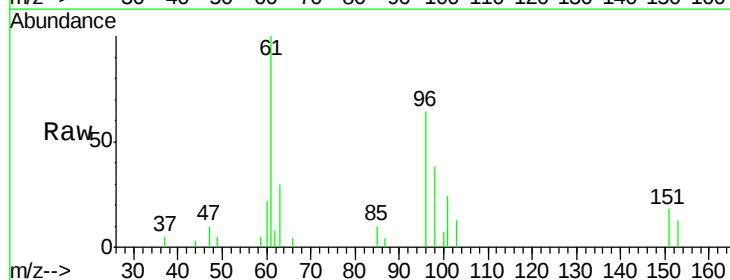
MMDadoda
 2/13/2020 10:37:00 AM

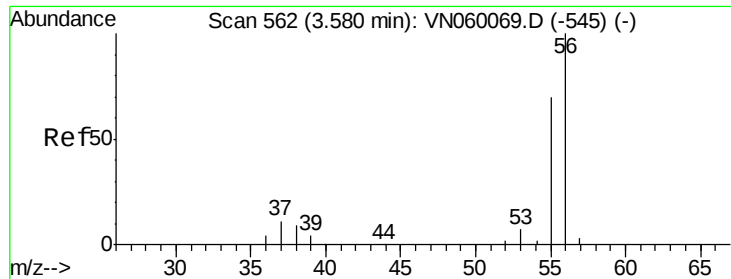


#12

1,1-Dichloroethene
 Concen: 4.948 ug/l
 RT: 3.71 min Scan# 603
 Delta R.T. -0.01 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion: 96 Resp: 9080
 Ion Ratio Lower Upper
 96 100
 61 155.9 128.3 192.5
 98 59.9 52.2 78.4





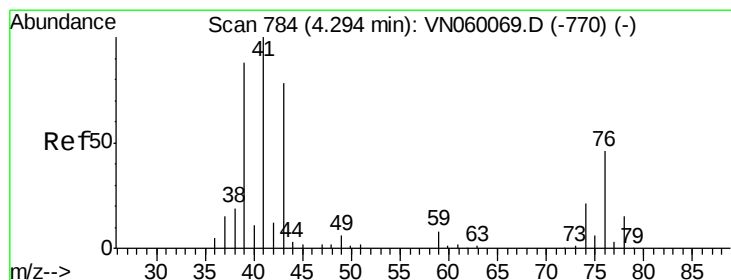
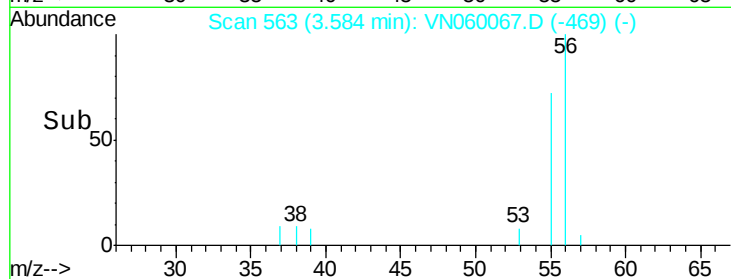
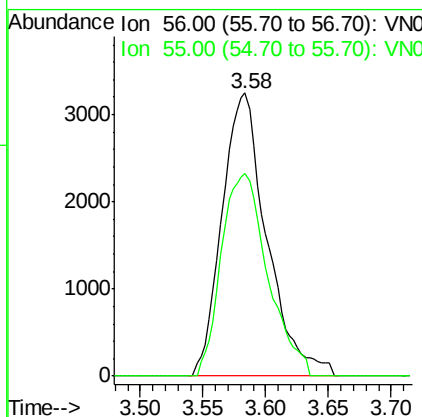
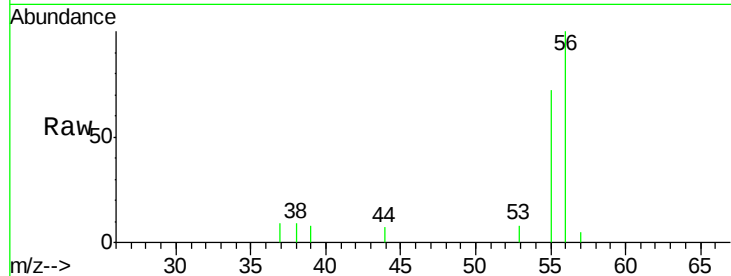
#13
Acrolein
Concen: 24.285 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	56	Resp	8047
Ion Ratio	100	Lower	Upper
55	73.9	54.8	82.2

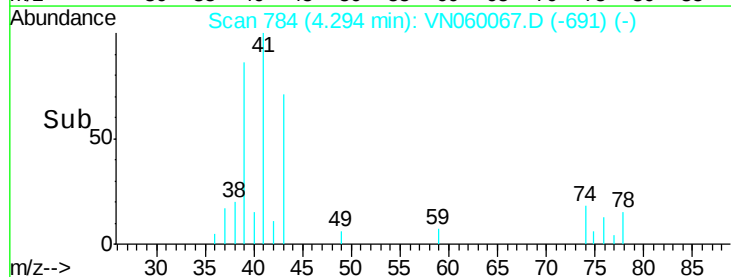
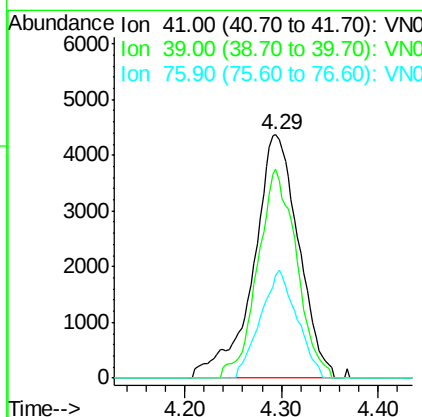
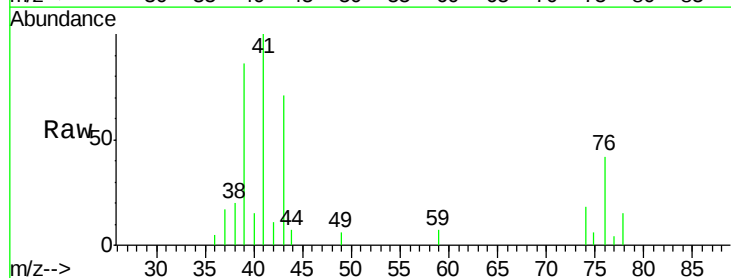
Manual Integrations
APPROVED

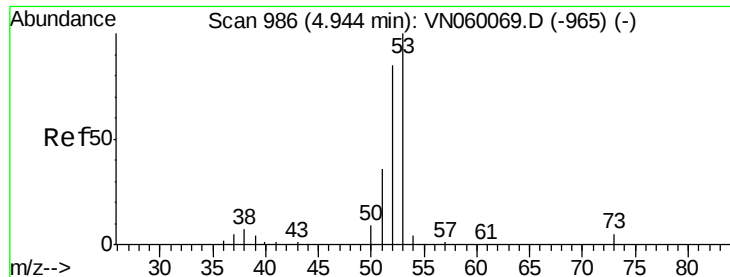
MMDadoda
2/13/2020 10:37:00 AM



#14
Allyl chloride
Concen: 5.178 ug/l
RT: 4.29 min Scan# 784
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	41	Resp	14163
Ion Ratio	100	Lower	Upper
39	73.9	67.8	101.8
76	35.9	33.9	50.9





#15

Acrylonitrile

Concen: 24.273 ug/l

RT: 4.95 min Scan# 988

Delta R.T. 0.01 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

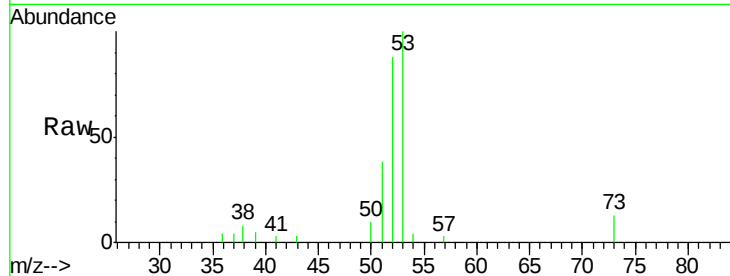
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	20131
Ion	Ratio	Lower	Upper
53	100		
52	85.9	66.8	100.2
51	36.8	29.4	44.0

Manual Integrations
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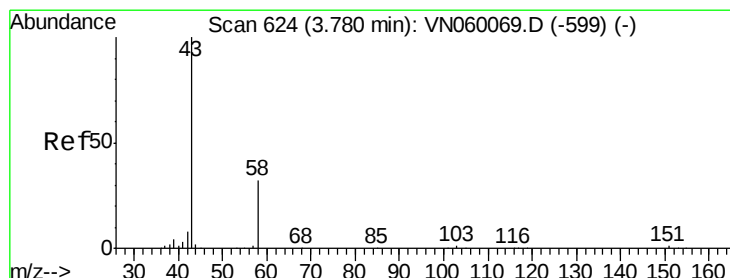
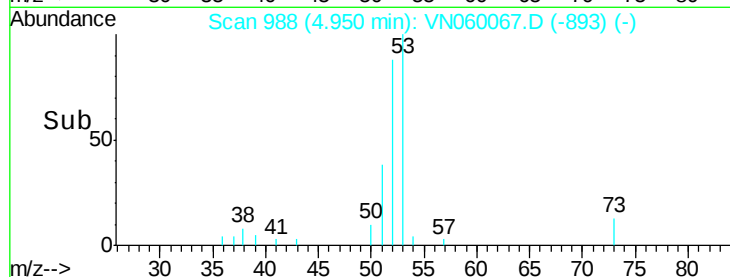
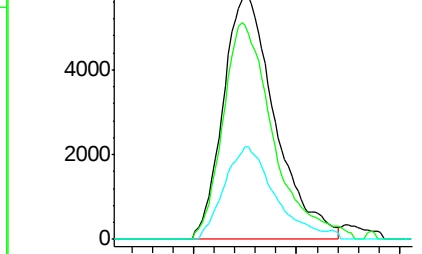
MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 53.00 (52.70 to 53.70): VN060069.D (-965) (-)

Ion 52.00 (51.70 to 52.70): VN060069.D (-965) (-)

Ion 51.00 (50.70 to 51.70): VN060069.D (-965) (-)



#16

Acetone

Concen: 25.183 ug/l

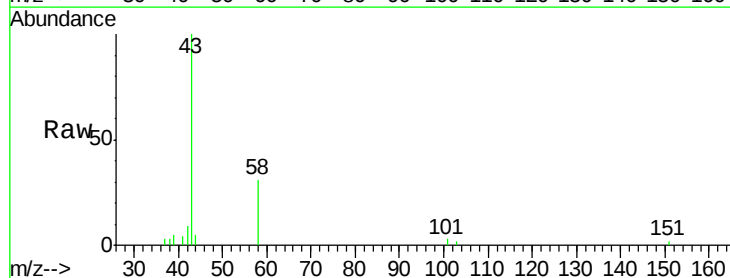
RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060067.D

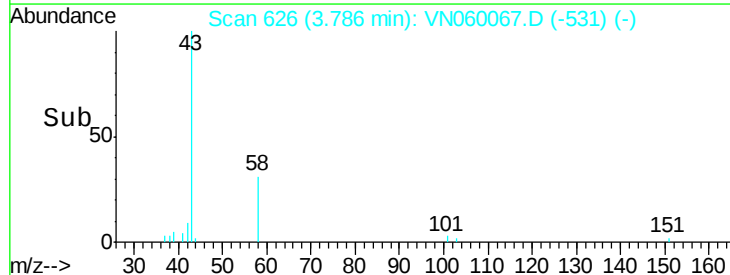
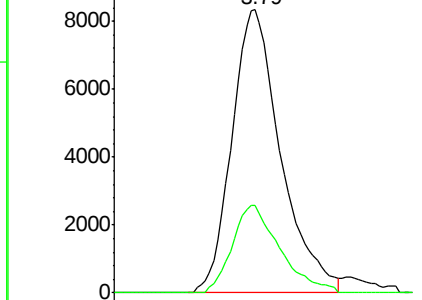
Acq: 12 Feb 2020 11:42

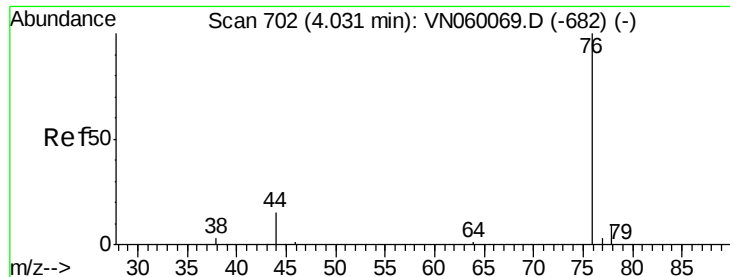
Tgt Ion:	43	Resp:	22009
Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.2	37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-599) (-)





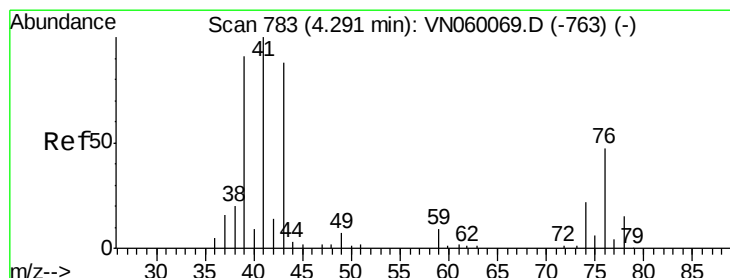
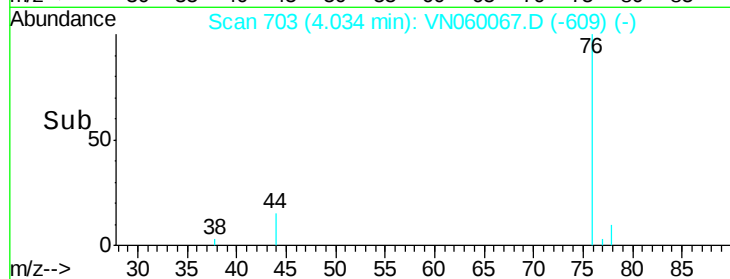
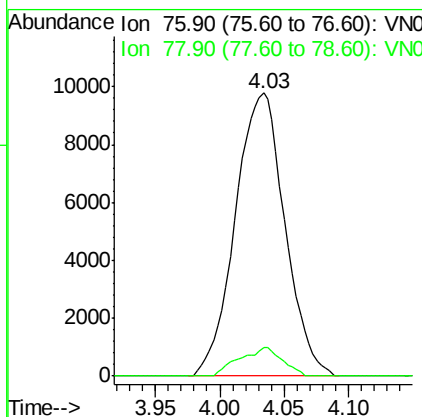
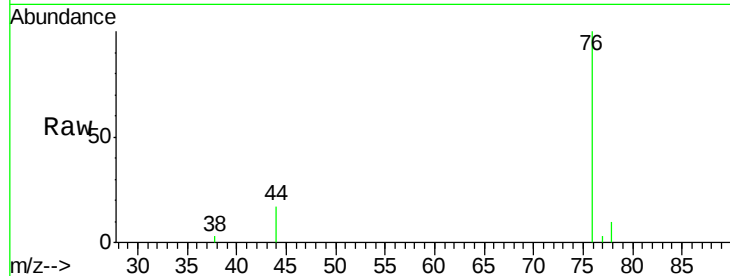
#17
Carbon Disulfide
Concen: 4.689 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 76 Resp: 26193
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.6

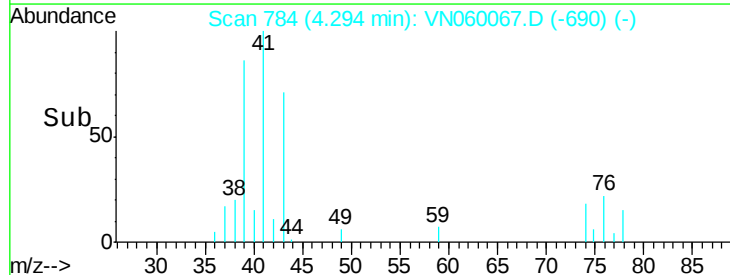
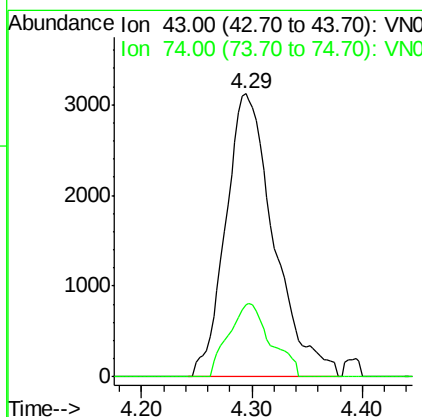
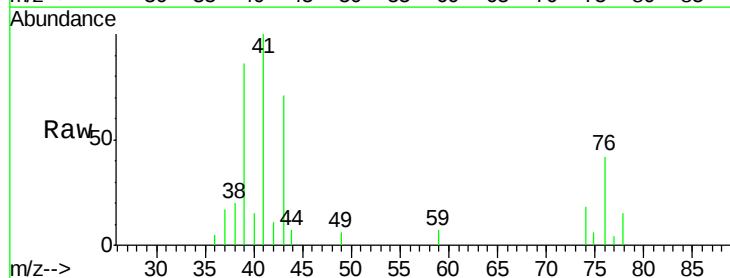
Manual Integrations
APPROVED

MMDadoda
2/13/2020 10:37:00 AM



#18
Methyl Acetate
Concen: 4.997 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 43 Resp: 9480
Ion Ratio Lower Upper
43 100
74 22.3 20.3 30.5





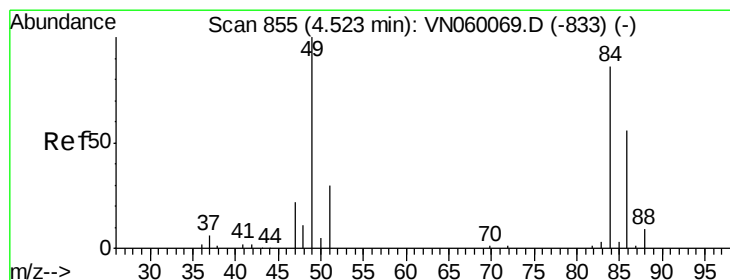
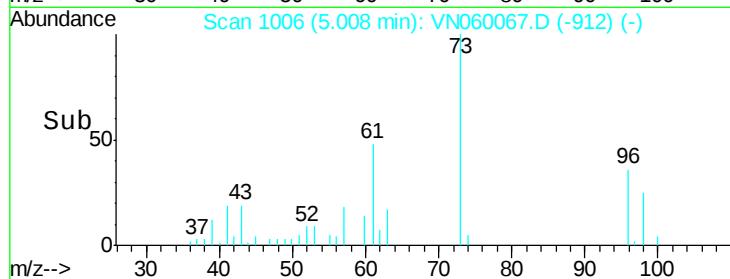
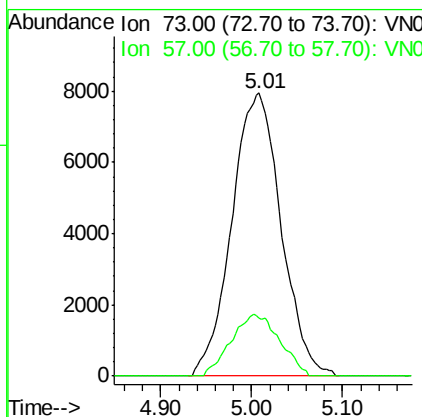
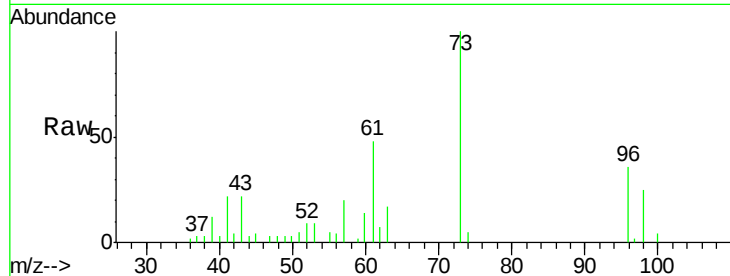
#19
Methvl tert-butvl Ether
Concen: 4.834 ug/l
RT: 5.01 min Scan# 1006
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 73 Resp: 29883
Ion Ratio Lower Upper
73 100
57 20.3 17.2 25.8

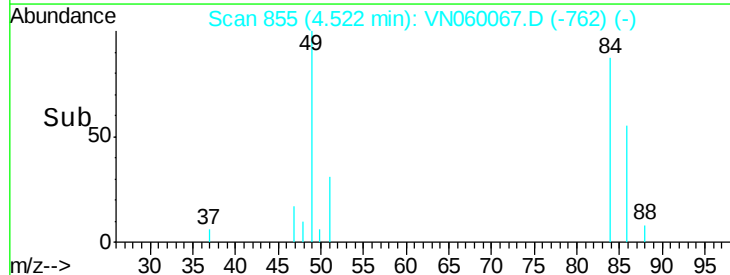
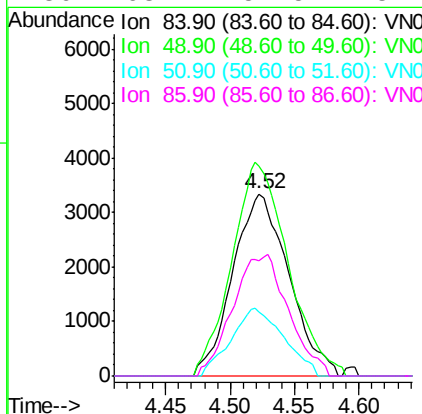
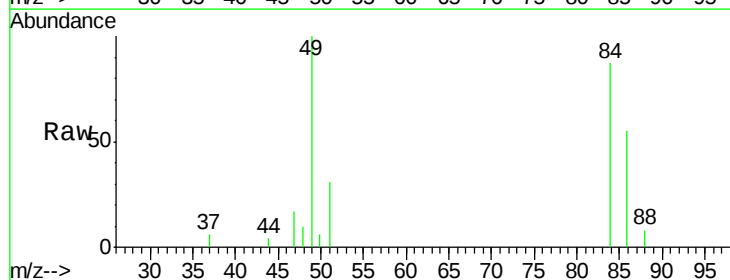
Manual Integrations
APPROVED

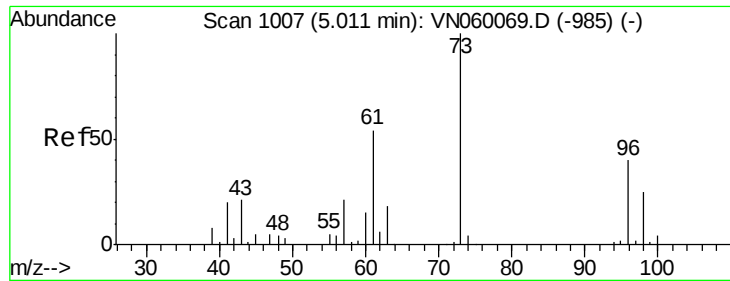
MMDadoda
2/13/2020 10:37:00 AM



#20
Methylene Chloride
Concen: 4.868 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 84 Resp: 10106
Ion Ratio Lower Upper
84 100
49 115.2 93.4 140.0
51 35.3 28.4 42.6
86 63.2 52.5 78.7





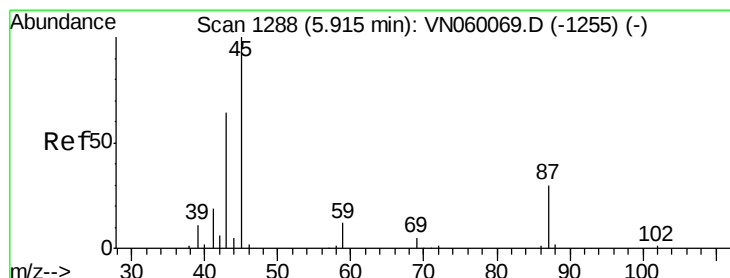
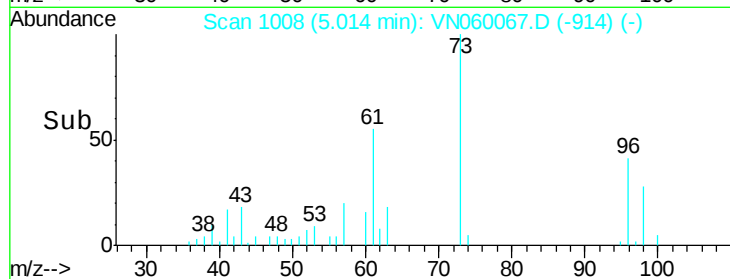
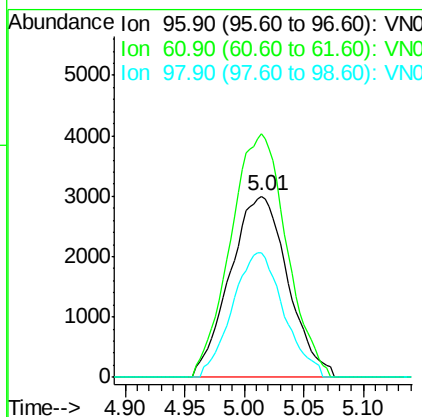
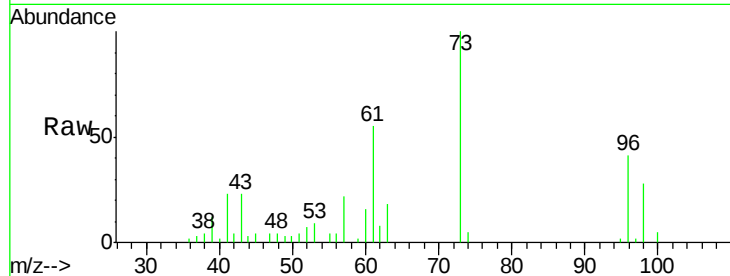
#21
trans-1,2-Dichloroethene
Concen: 5.630 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.2	109.3	163.9
98	68.9	51.0	76.6

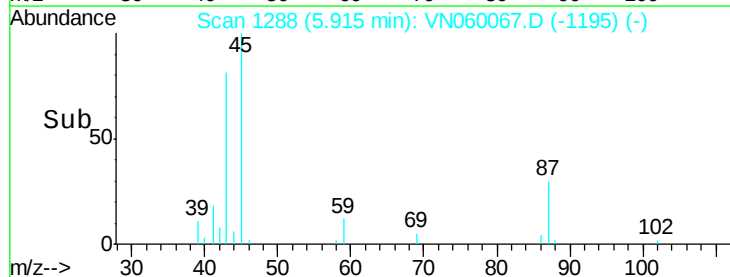
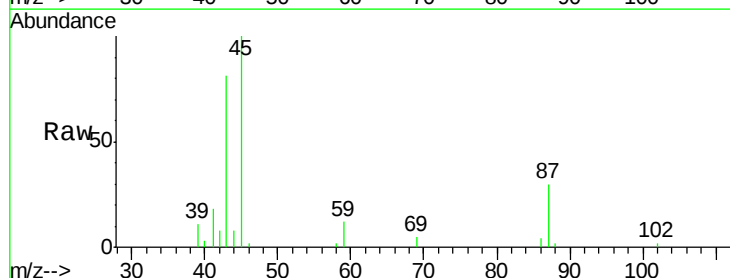
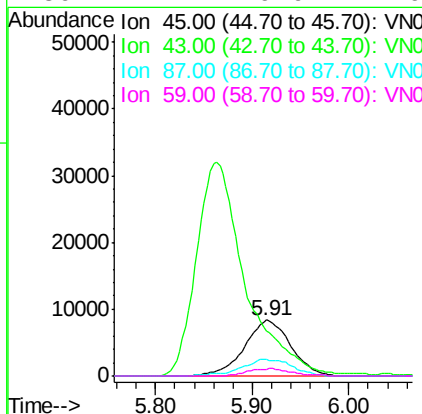
Manual Integrations
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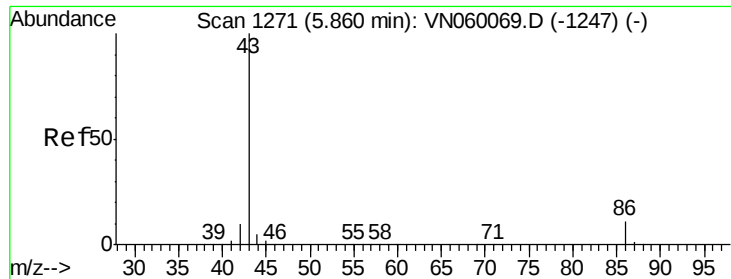
MMDadoda
2/13/2020 10:37:00 AM



#22
Diisopropyl ether
Concen: 4.758 ug/l
RT: 5.91 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
45	100		
43	76.4	55.9	83.9
87	29.6	24.5	36.7
59	12.4	9.9	14.9





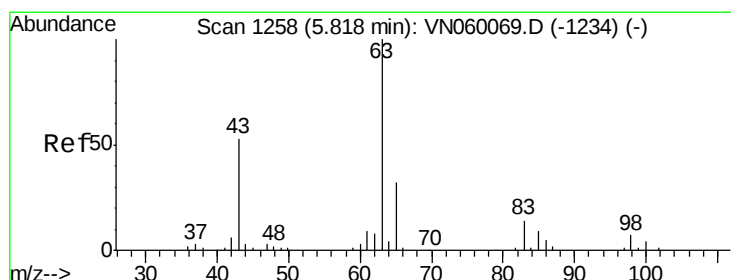
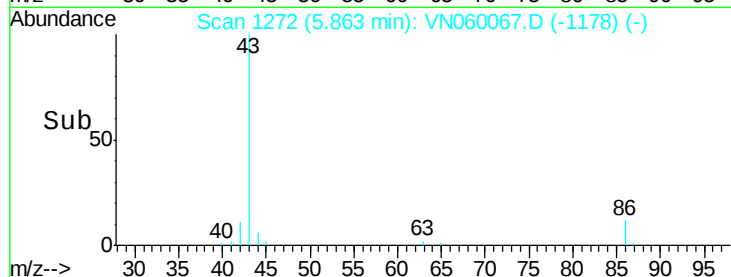
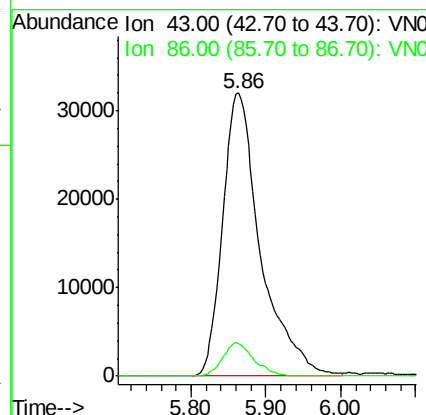
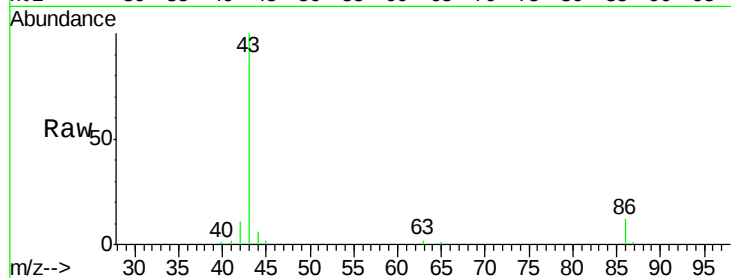
#23
 Vinyl Acetate
 Concen: 23.305 ug/l
 RT: 5.86 min Scan# 1272
 Delta R.T. 0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	43.00	Resp	112821
Ion Ratio	43	100	
Lower	8.9		
Upper	13.3		

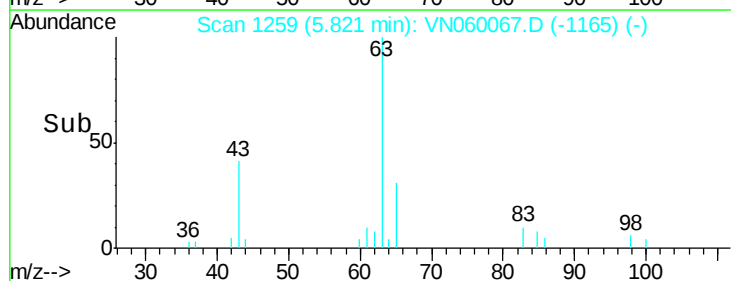
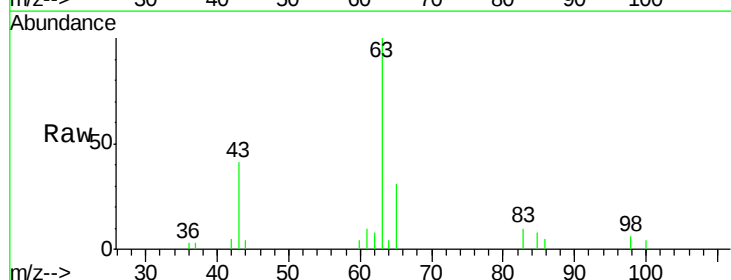
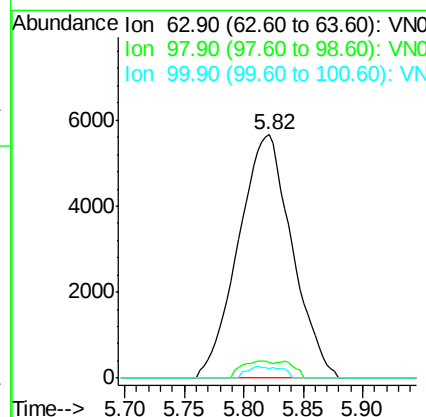
Manual Integrations
 APPROVED

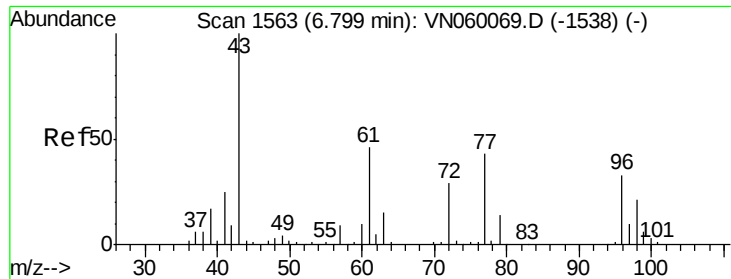
MMDadoda
 2/13/2020 10:37:00 AM



#24
 1,1-Dichloroethane
 Concen: 4.902 ug/l
 RT: 5.82 min Scan# 1259
 Delta R.T. 0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	63	Resp	17677
Ion Ratio	63	100	
Lower	3.5		
Upper	10.5		
	98	6.4	
	100	4.1	





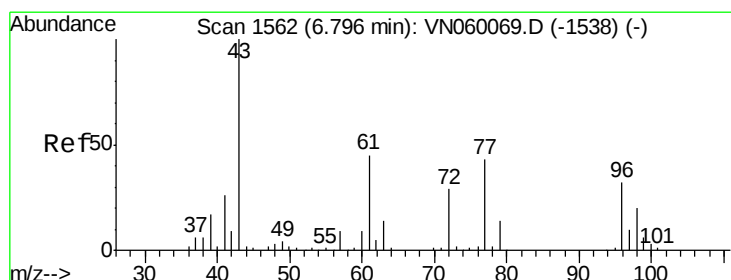
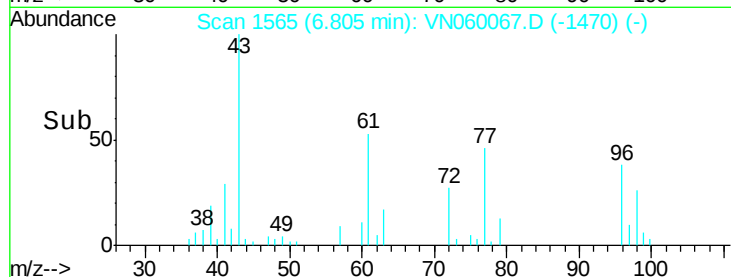
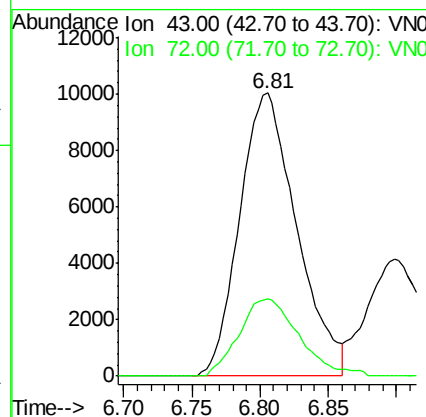
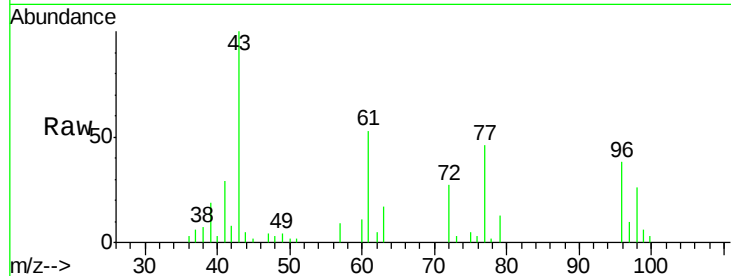
#25
2-Butanone
Concen: 23.206 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 29173
Ion Ratio Lower Upper
43 100
72 27.5 23.3 34.9

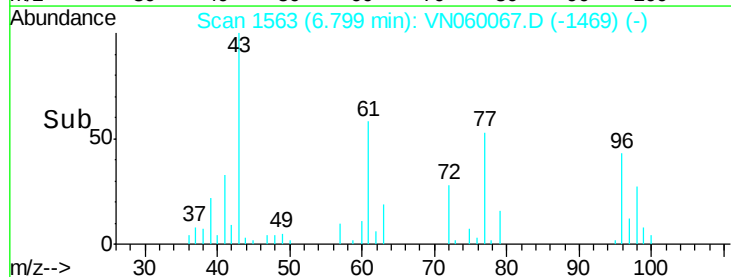
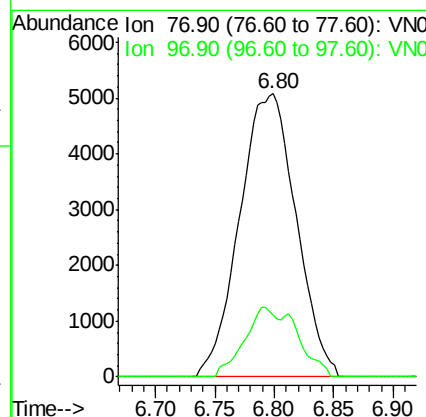
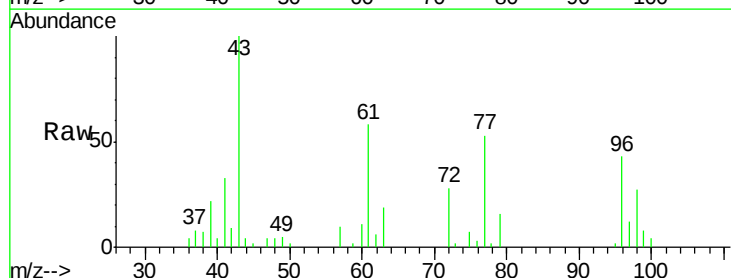
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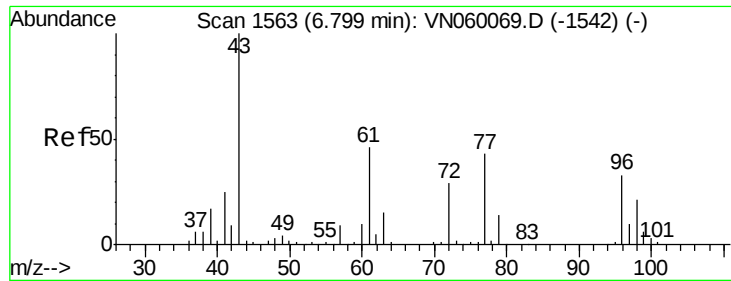
MMDadoda
2/13/2020 10:37:00 AM



#26
2,2-Dichloropropane
Concen: 4.859 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 77 Resp: 16694
Ion Ratio Lower Upper
77 100
97 14.9 11.4 34.2





#27

cis-1,2-Dichloroethene

Concen: 5.452 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

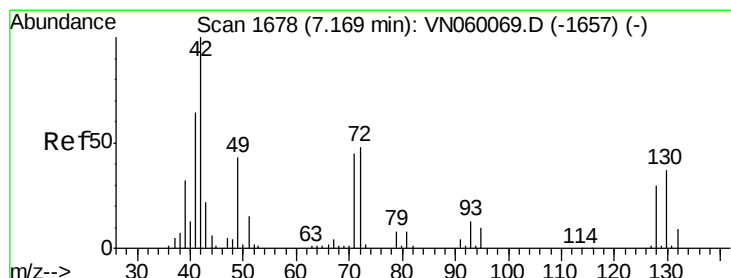
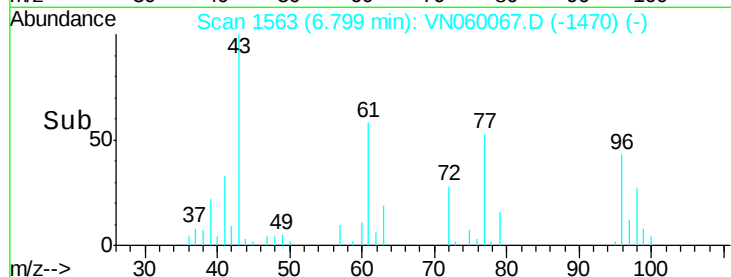
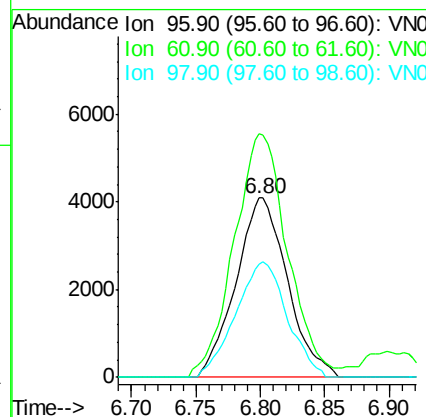
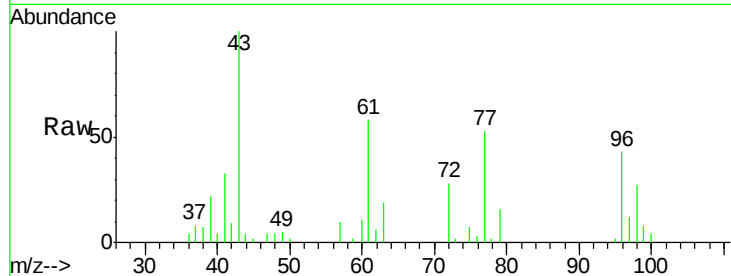
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	11359
Ion	Ratio	Lower	Upper
96	100		
61	141.3	0.0	285.8
98	64.5	0.0	129.6

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2/13/2020 10:37:00 AM



#28

Bromochloromethane

Concen: 5.361 ug/l

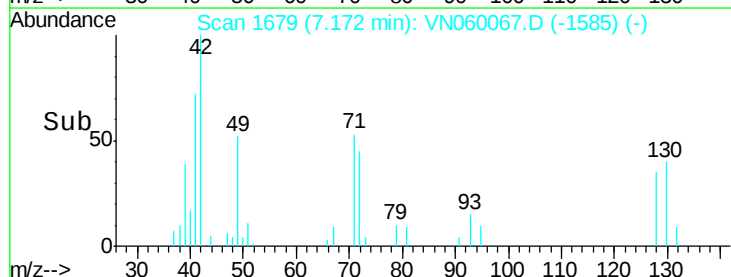
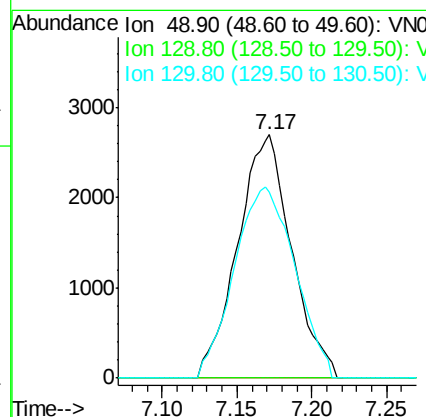
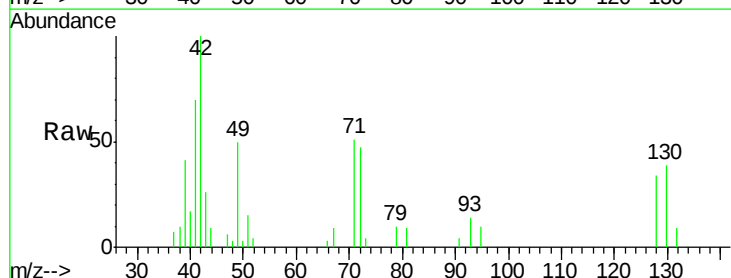
RT: 7.17 min Scan# 1679

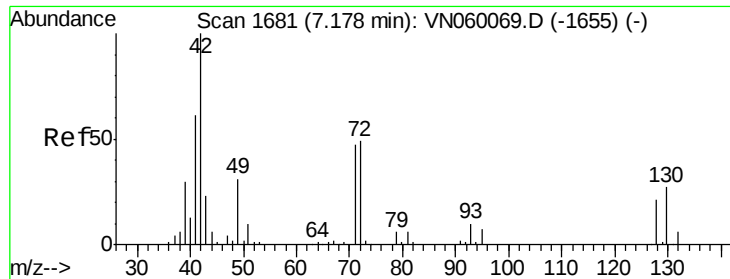
Delta R.T. 0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion:	49	Resp:	6756
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	2.2
130	88.3	66.8	100.2





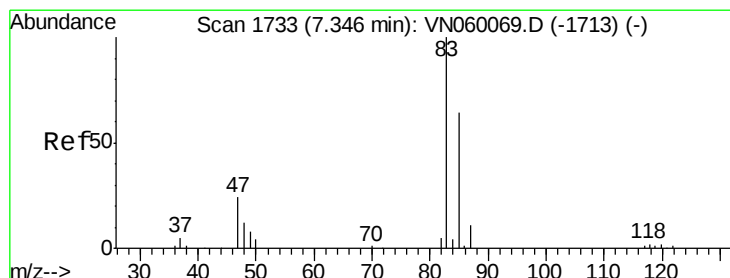
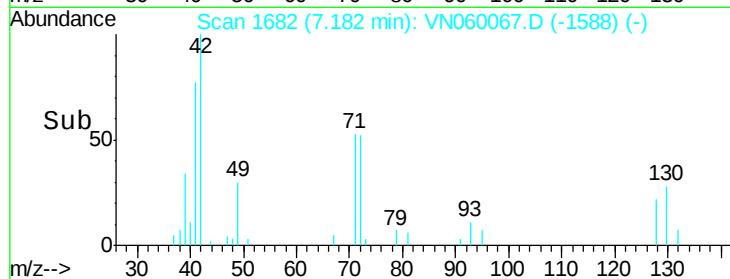
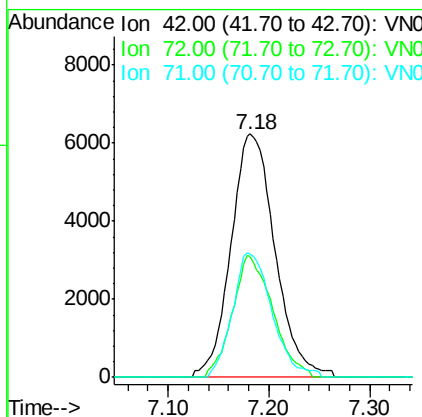
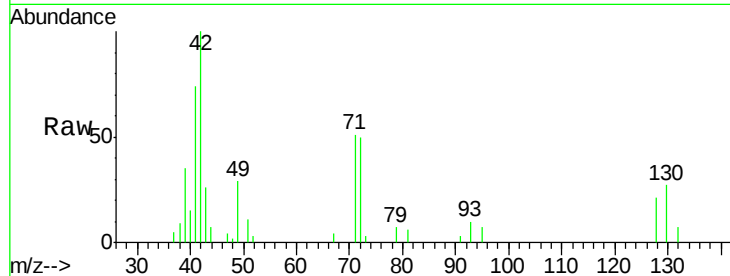
#29
Tetrahydrofuran
Concen: 24.328 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	38.2	57.4
71	46.1	36.6	54.8

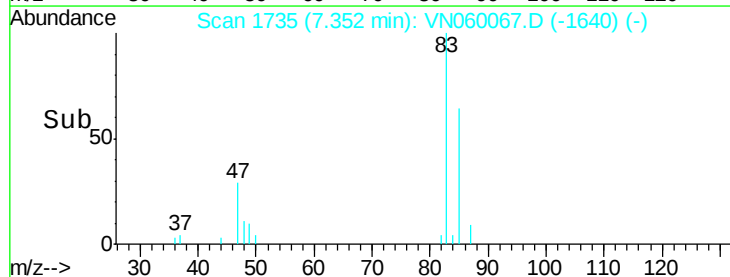
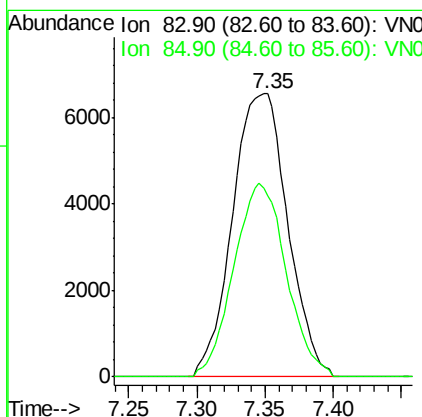
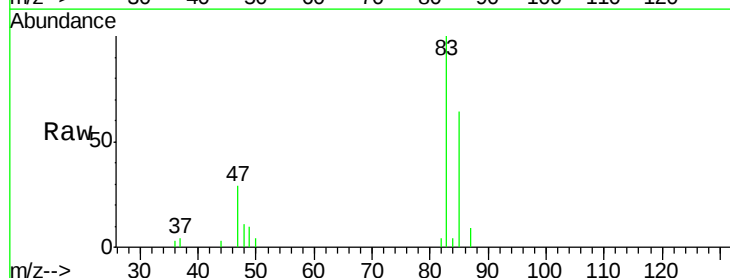
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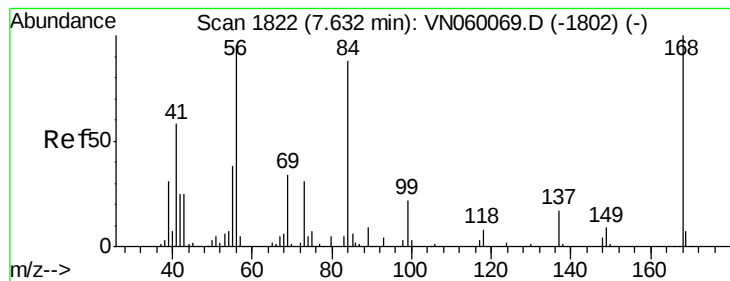
MMDadoda
2/13/2020 10:37:00 AM



#30
Chloroform
Concen: 4.867 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.01 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.4	77.0





#31

Cyclohexane

Concen: 5.593 ug/l

RT: 7.63 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

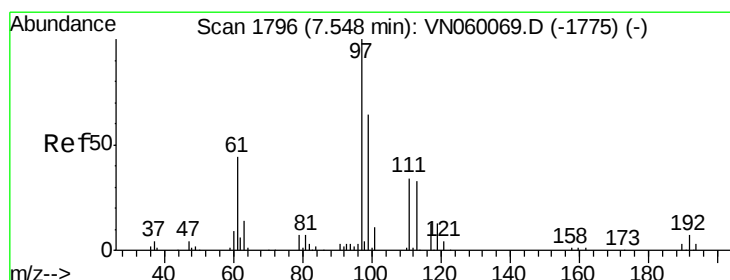
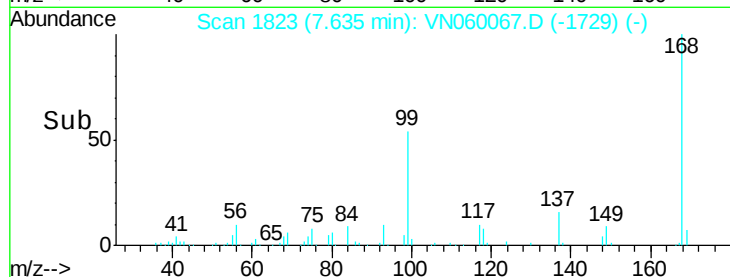
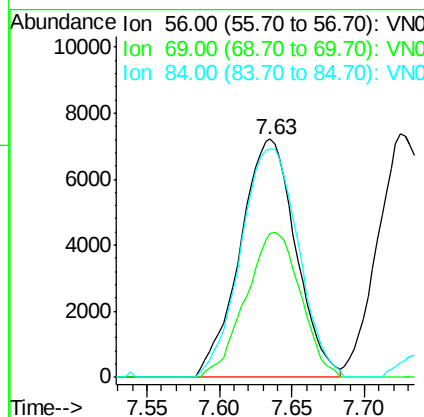
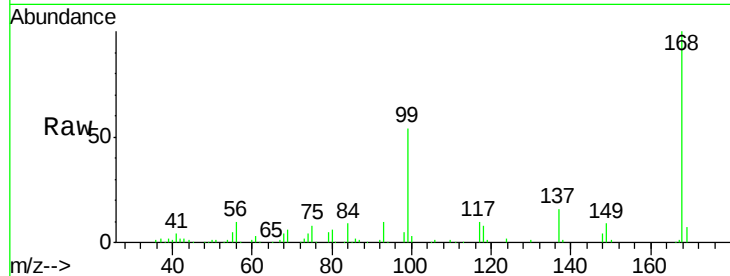
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	19315
Ion	Ratio	Lower	Upper
56	100		
69	60.7	28.3	42.5#
84	95.7	72.6	108.8

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#32

1,1,1-Trichloroethane

Concen: 4.795 ug/l

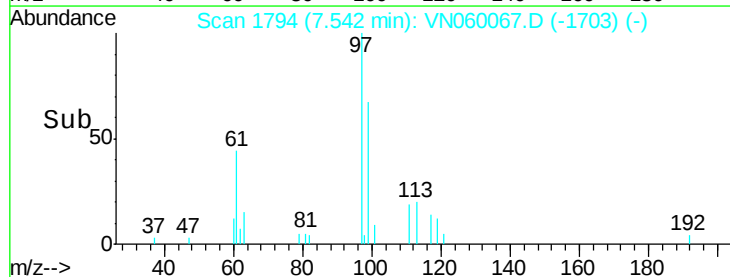
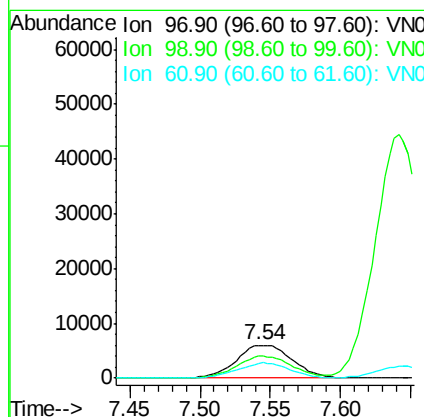
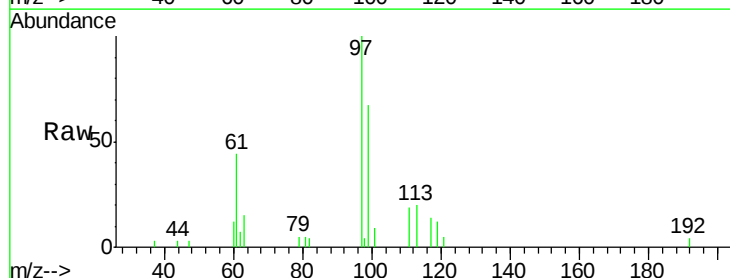
RT: 7.54 min Scan# 1794

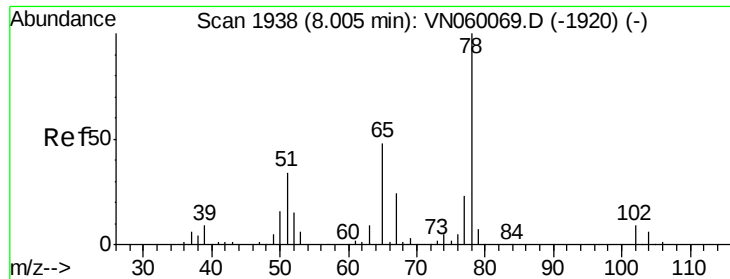
Delta R.T. -0.01 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion:	97	Resp:	16520
Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.4	77.0
61	43.9	34.9	52.3





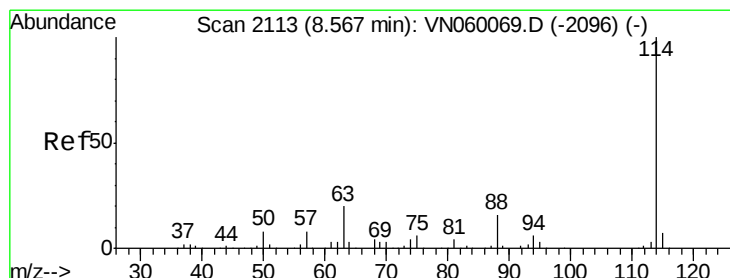
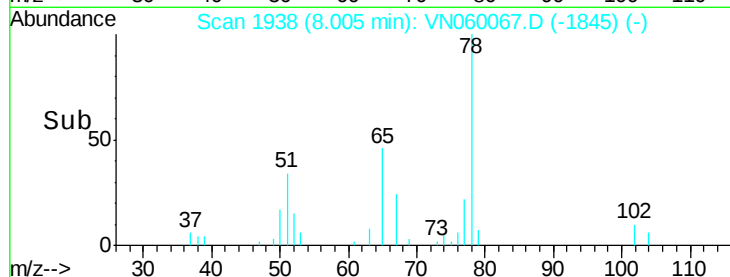
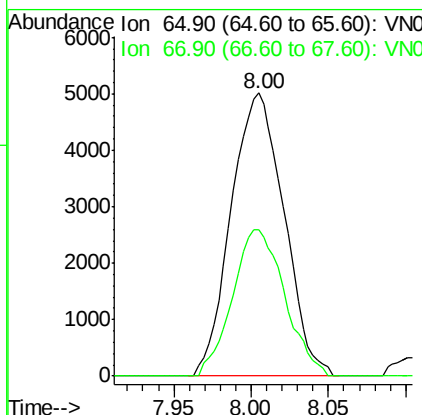
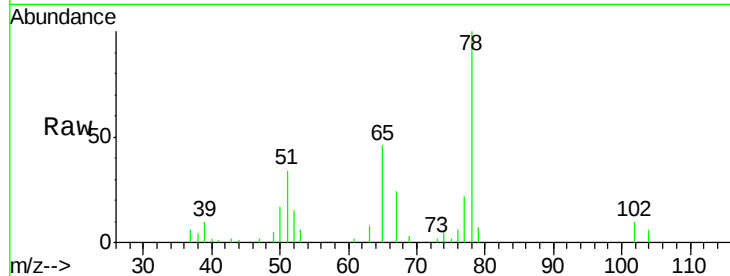
#33
 1,2-Dichloroethane-d4
 Concen: 5.075 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	104.0

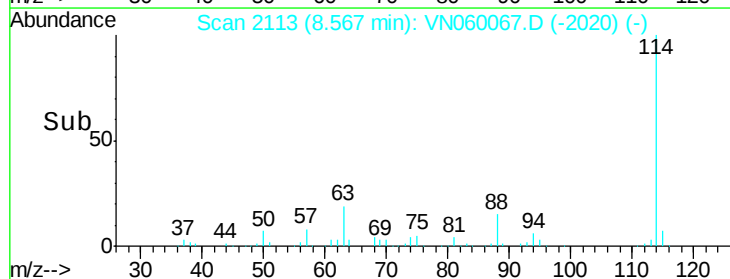
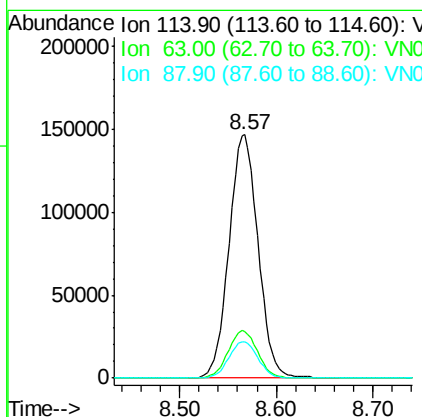
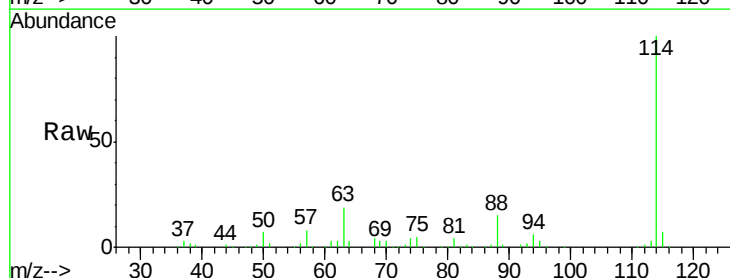
Manual Integrations
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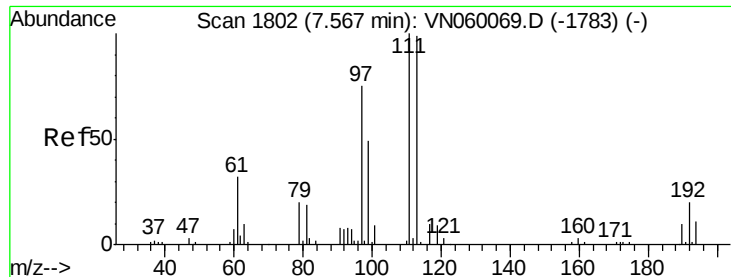
MMDadoda
 2/13/2020 10:37:00 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.0
88	14.9	0.0	31.6





#35

Dibromofluoromethane

Concen: 4.810 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 113 Resp: 8786

Ion Ratio Lower Upper

113 100

111 107.1 81.4 122.2

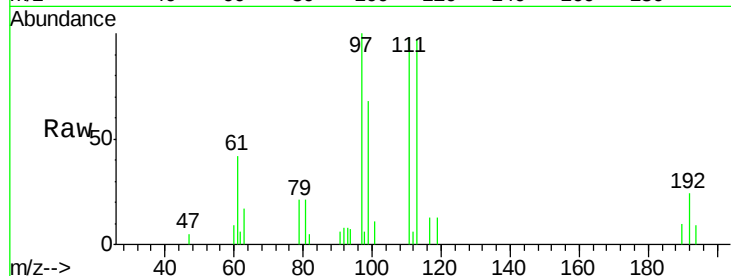
192 23.5 16.2 24.2

Manual Integrations

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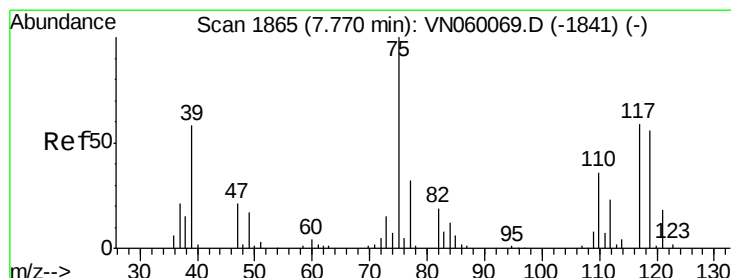
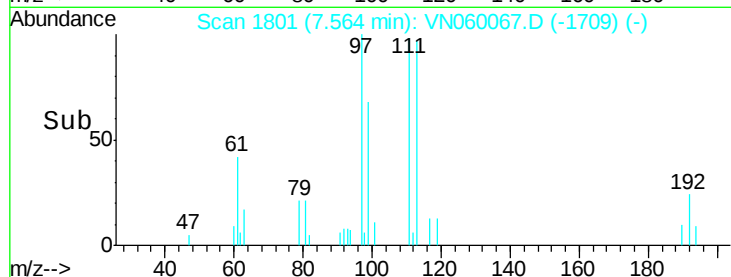
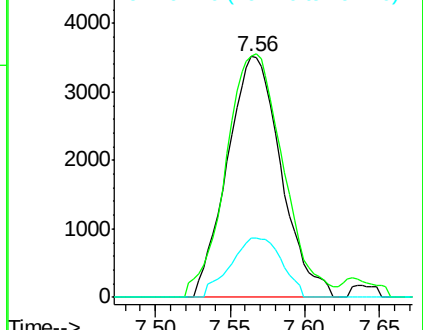
2/13/2020 10:37:00 AM



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.733 ug/l

RT: 7.77 min Scan# 1865

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

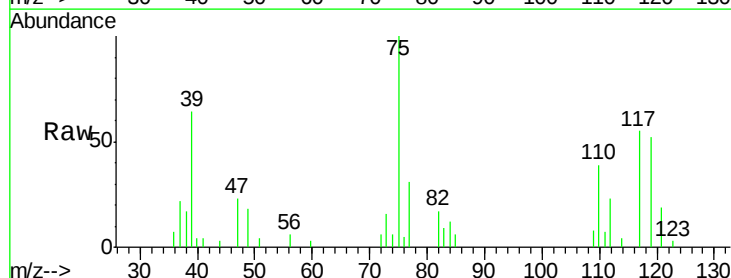
Tgt Ion: 75 Resp: 13417

Ion Ratio Lower Upper

75 100

110 36.9 18.1 54.3

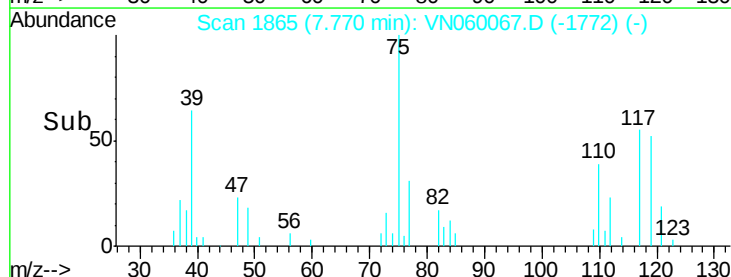
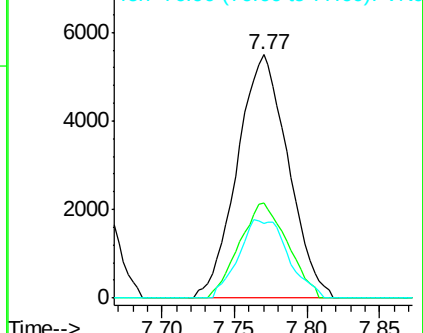
77 31.3 25.1 37.7

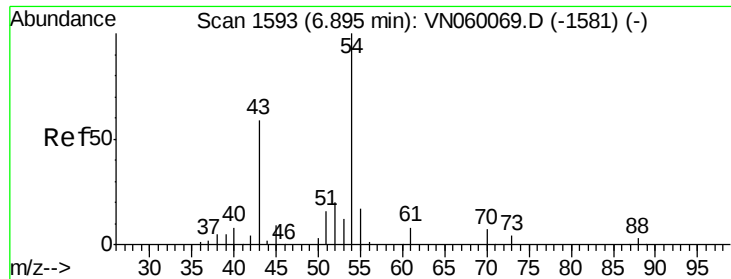


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





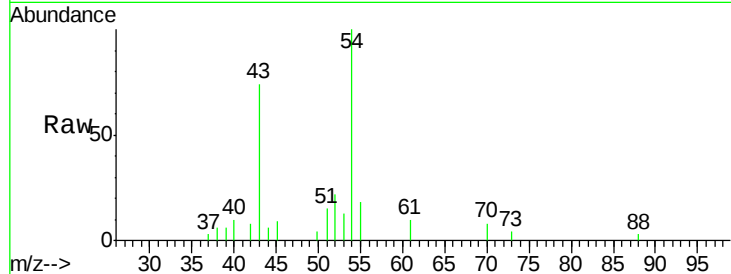
#37
Ethyl Acetate
Concen: 5.315 ug/l
RT: 6.90 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.4	17.2
70	7.9	8.7	13.1

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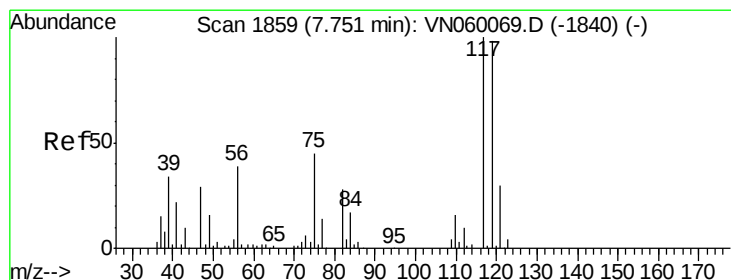
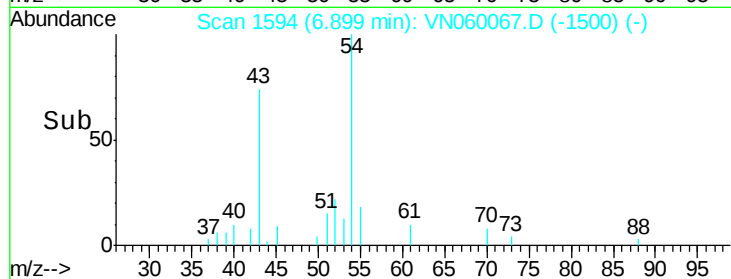
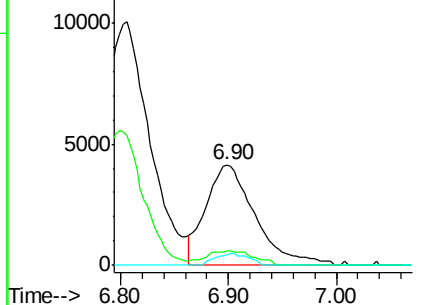
MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1581) (-)

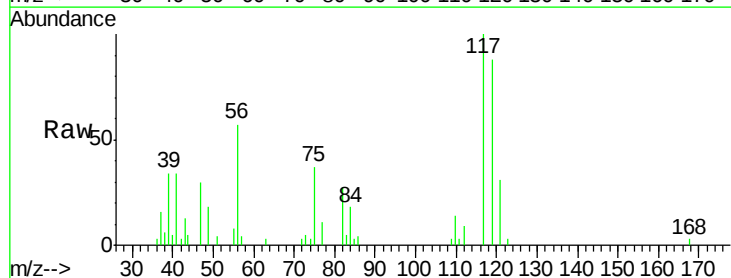
Ion 60.90 (60.60 to 61.60): VN060069.D (-1581) (-)

Ion 70.00 (69.70 to 70.70): VN060069.D (-1581) (-)



#38
Carbon Tetrachloride
Concen: 4.772 ug/l
RT: 7.75 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

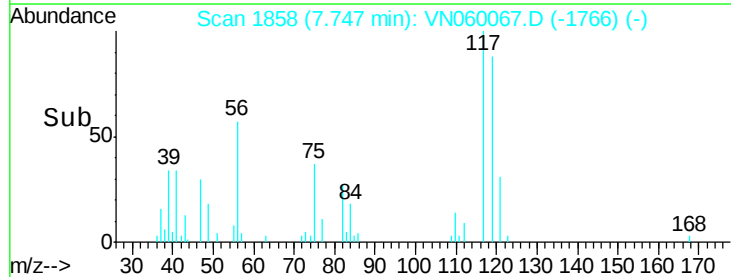
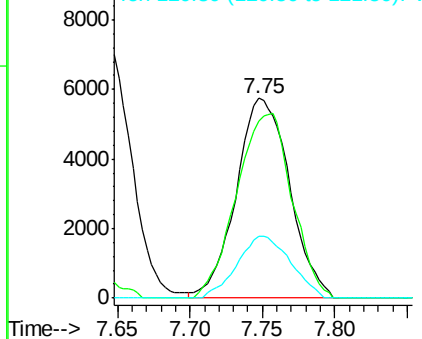
Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.4	78.2	117.4
121	30.9	24.2	36.2

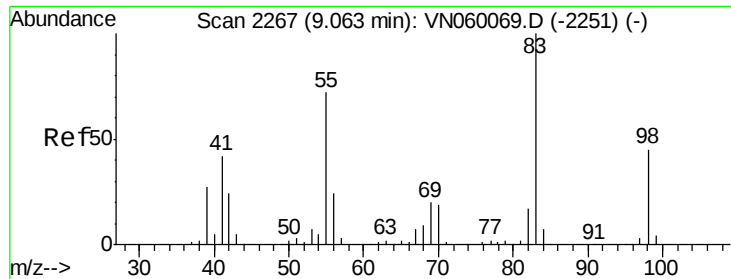


Abundance Ion 116.80 (116.50 to 117.50): VN060069.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN060069.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN060069.D (-1840) (-)





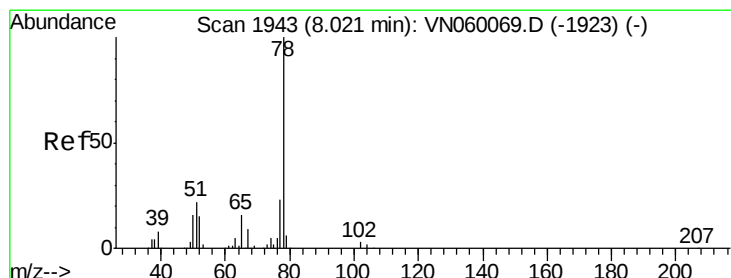
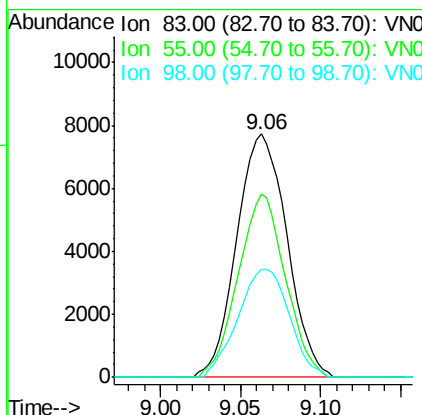
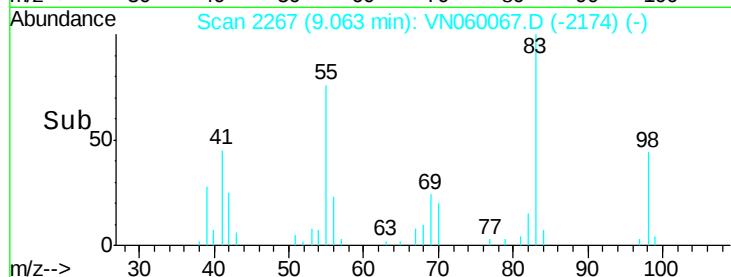
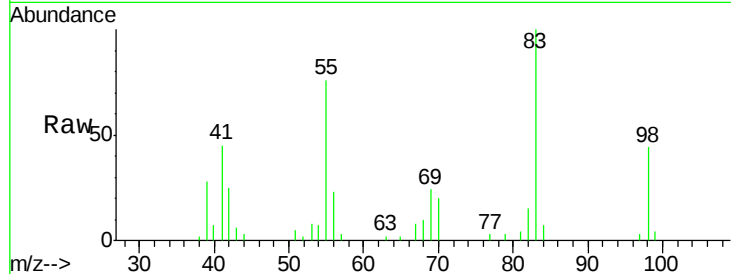
#39
Methvlcvclohexane
Concen: 4.732 ug/l
RT: 9.06 min Scan# 2267
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	16622
Ion Ratio	100	Lower	Upper
83	100		
55	75.5	57.8	86.8
98	44.4	36.4	54.6

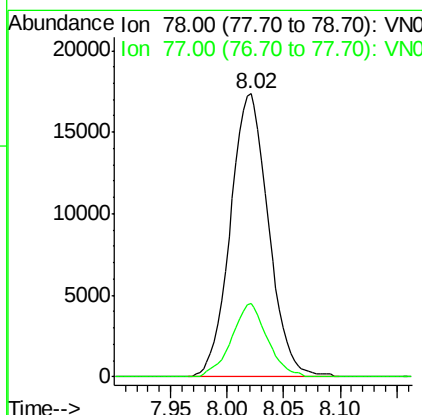
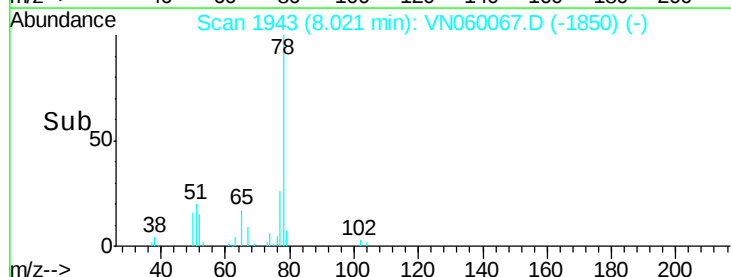
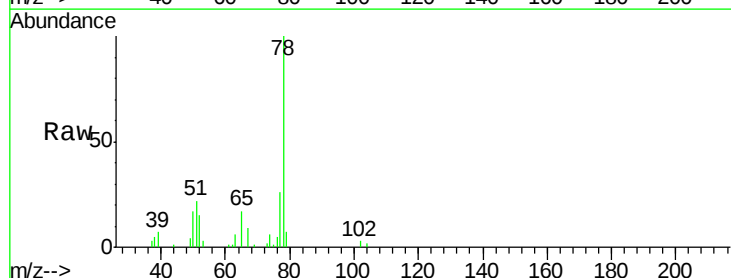
Manual Integrations
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2/13/2020 10:37:00 AM



#40
Benzene
Concen: 4.809 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	78	Resp	40757
Ion Ratio	100	Lower	Upper
78	100		
77	25.9	18.8	28.2





#41

Methacrylonitrile

Concen: 3.183 ug/l m

RT: 7.15 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tot Ion: 41 Resp: 5198

Ion Ratio Lower Upper

41 100

39 112.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

Instrument :

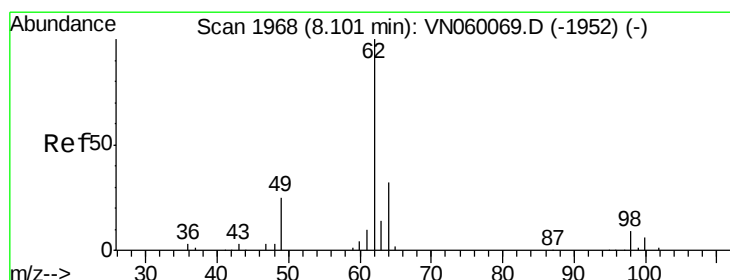
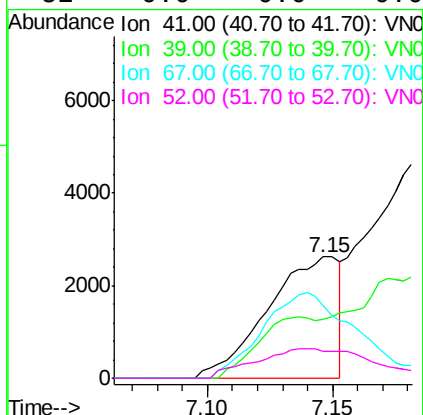
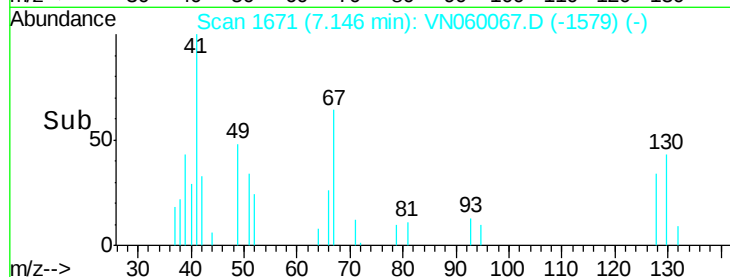
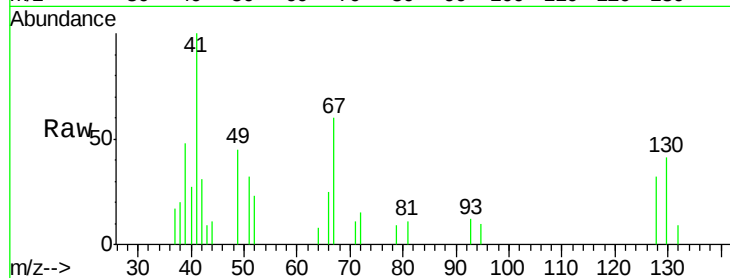
MSVOA_N

ClientSampleId :

VSTDIC005

Manual Integrations
APPROVED

MMDadoda
2/13/2020 10:37:00 AM



#42

1,2-Dichloroethane

Concen: 4.832 ug/l

RT: 8.10 min Scan# 1968

Delta R.T. -0.00 min

Lab File: VN060067.D

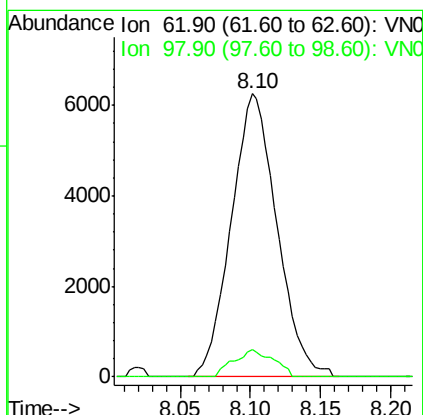
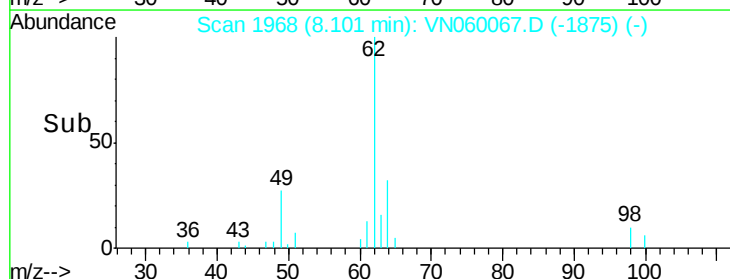
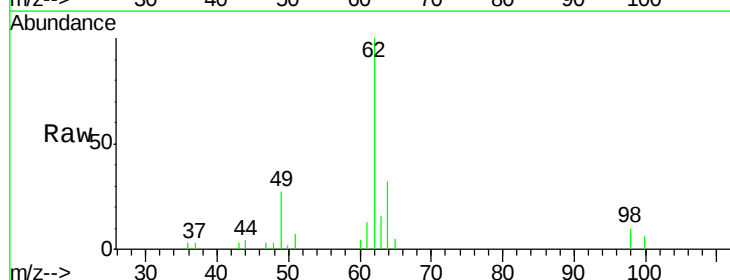
Acq: 12 Feb 2020 11:42

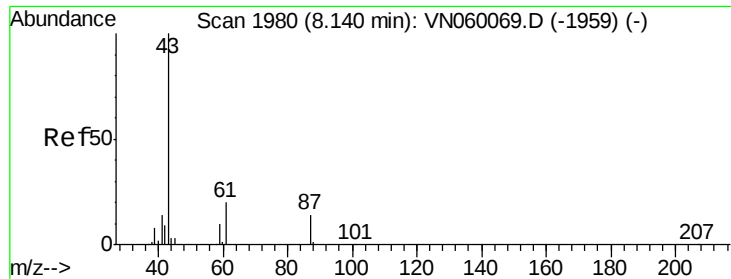
Tgt Ion: 62 Resp: 14180

Ion Ratio Lower Upper

62 100

98 8.4 0.0 18.2





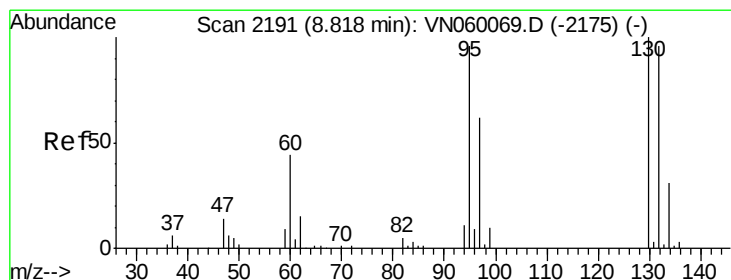
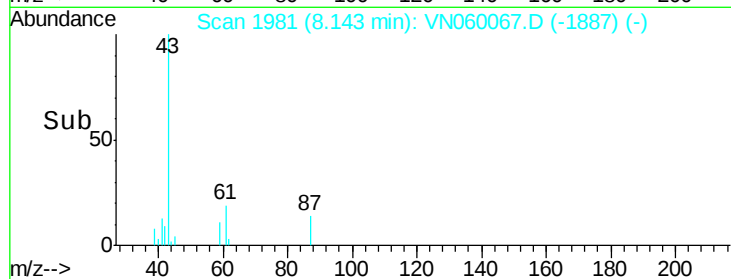
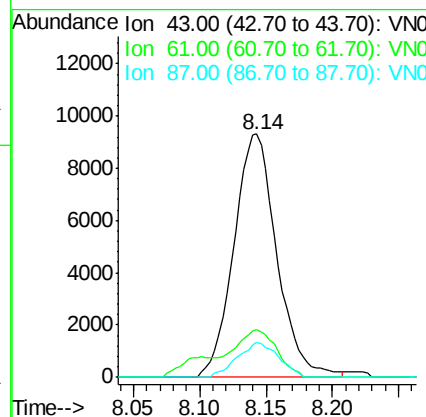
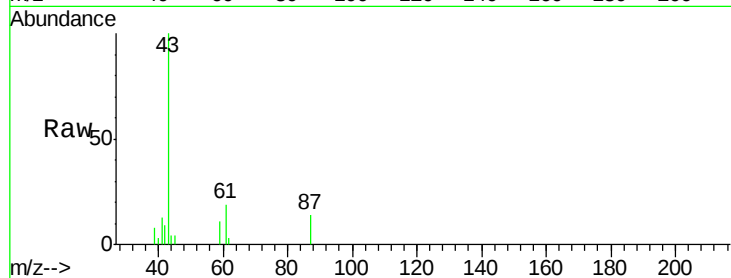
#43
Isopropyl Acetate
Concen: 4.898 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.4	21.8	32.6#
87	13.7	11.4	17.2

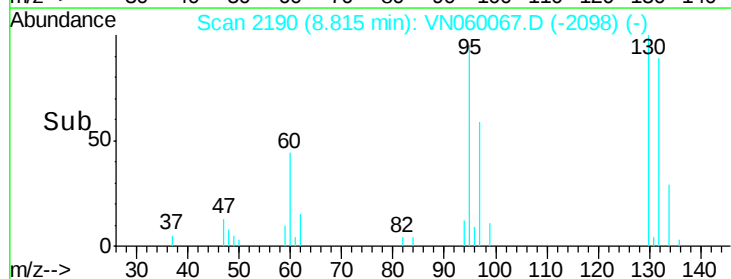
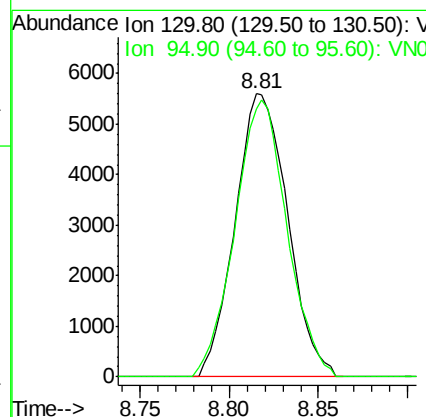
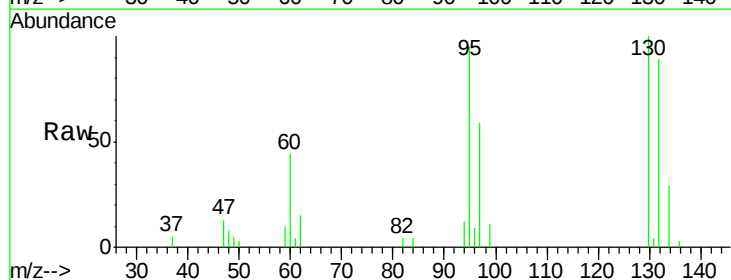
Manual Integrations
APPROVED

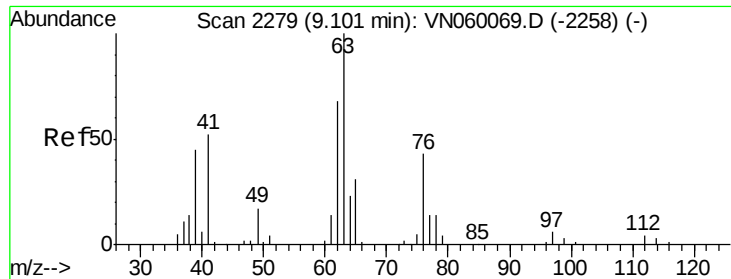
MMDadoda
2/13/2020 10:37:00 AM



#44
Trichloroethene
Concen: 4.889 ug/l
RT: 8.81 min Scan# 2190
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.5	0.0	192.4





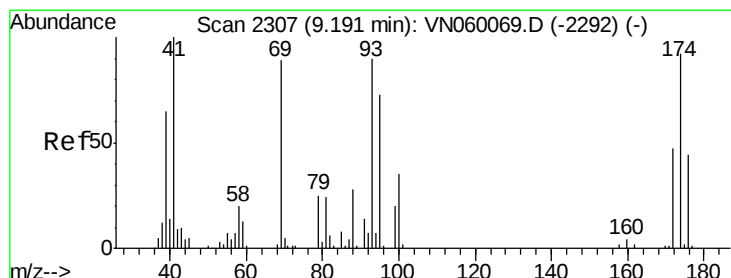
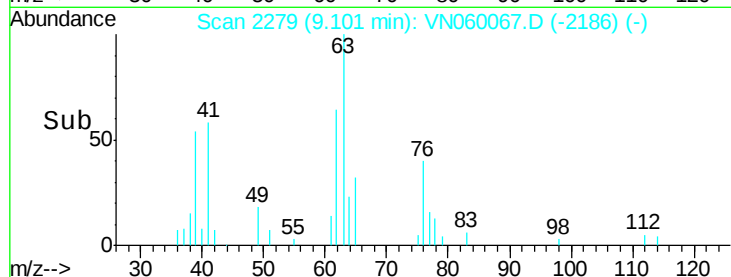
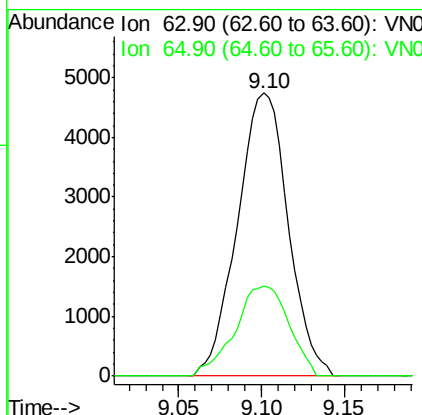
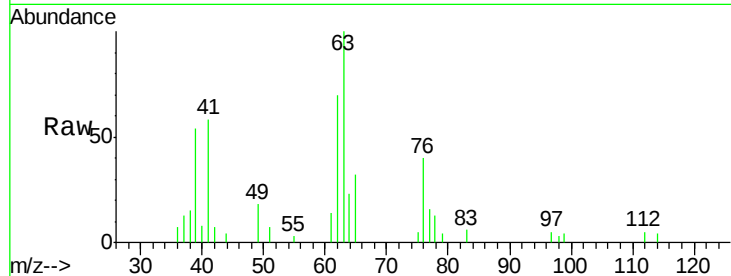
#45
 1,2-Dichloropropane
 Concen: 4.870 ug/l
 RT: 9.10 min Scan# 2279
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion: 63 Resp: 10124
 Ion Ratio Lower Upper
 63 100
 65 31.7 25.0 37.4

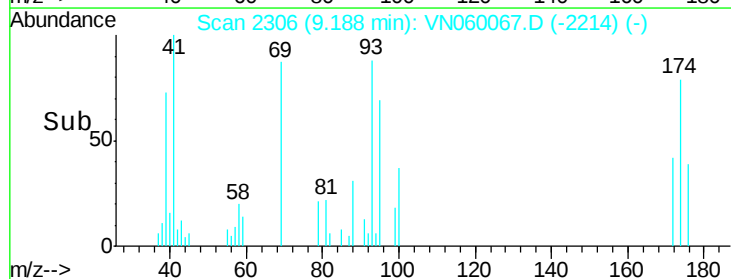
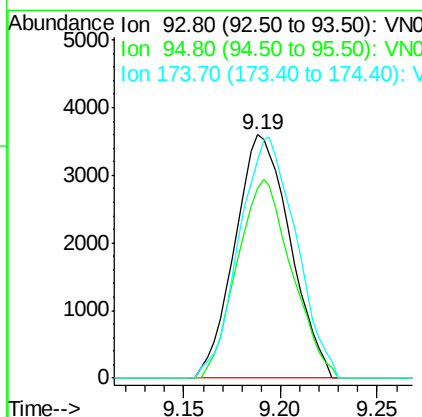
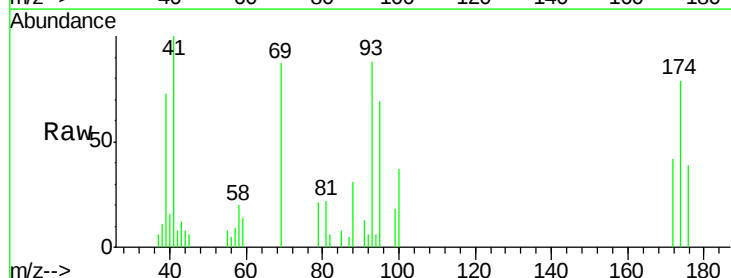
Manual Integrations
 APPROVED

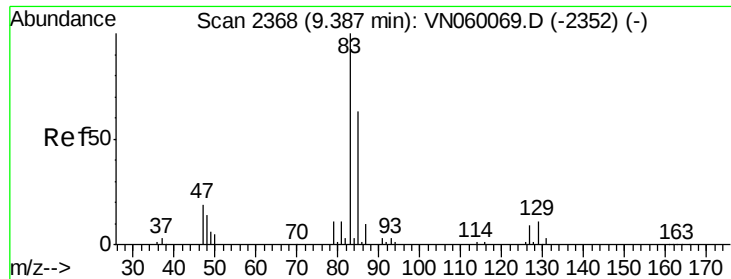
MMDadoda
 2/13/2020 10:37:00 AM



#46
 Dibromomethane
 Concen: 4.900 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion: 93 Resp: 7158
 Ion Ratio Lower Upper
 93 100
 95 80.6 65.0 97.6
 174 101.6 82.3 123.5





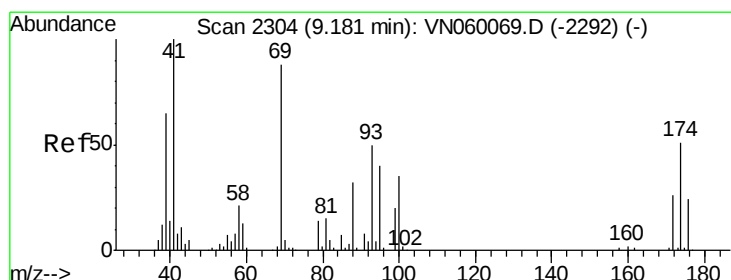
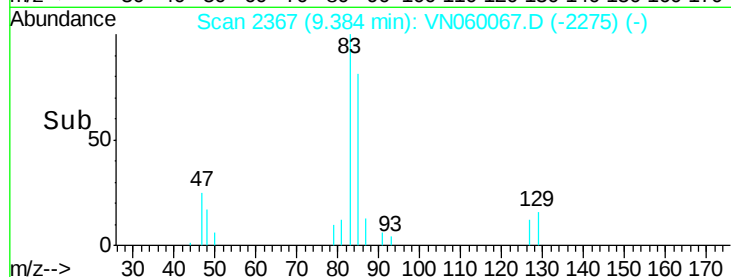
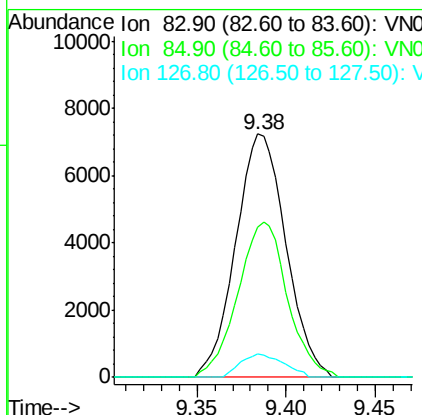
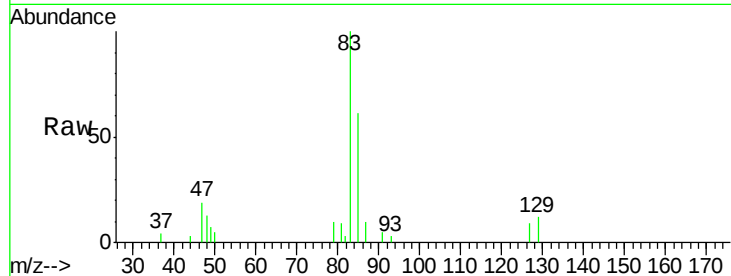
#47
Bromodichloromethane
Concen: 4.791 ug/l
RT: 9.38 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	83	Resp	14200
Ion Ratio	100	Lower	Upper
83	100		
85	61.4	50.6	75.8
127	9.5	7.0	10.6

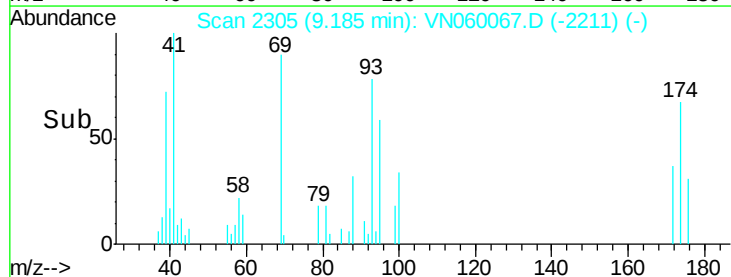
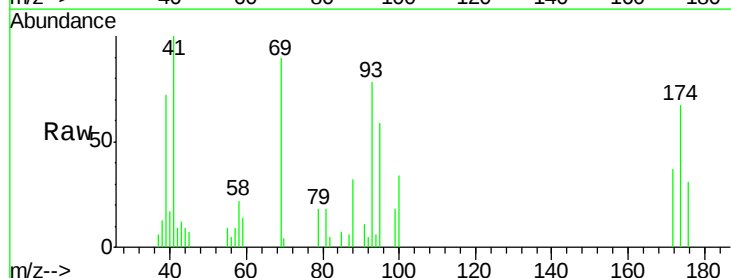
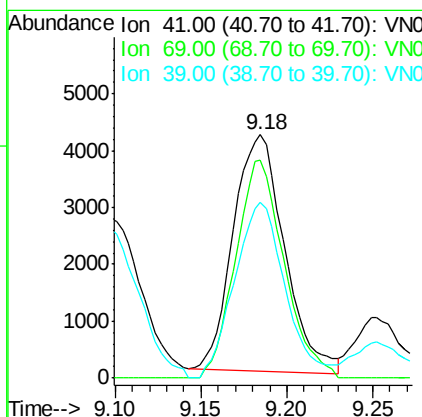
Manual Integrations
APPROVED

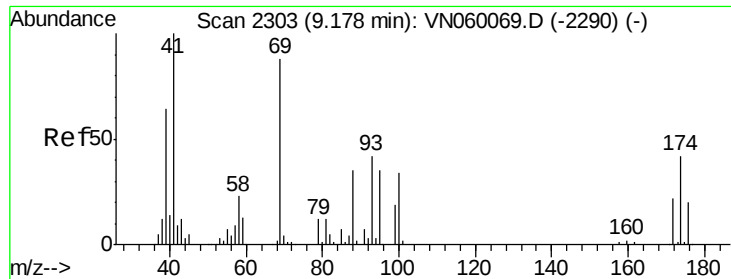
MMDadoda
2/13/2020 10:37:00 AM



#48
Methyl methacrylate
Concen: 4.540 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	41	Resp	8600
Ion Ratio	100	Lower	Upper
41	100		
69	87.5	72.0	108.0
39	73.2	54.1	81.1





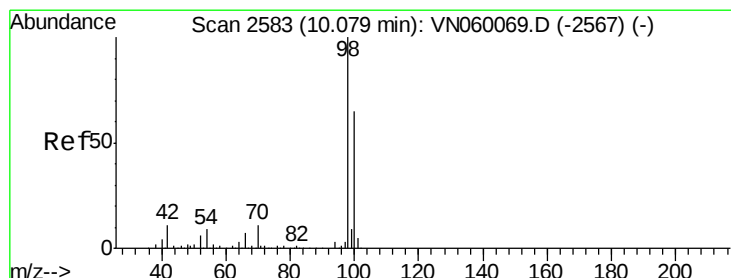
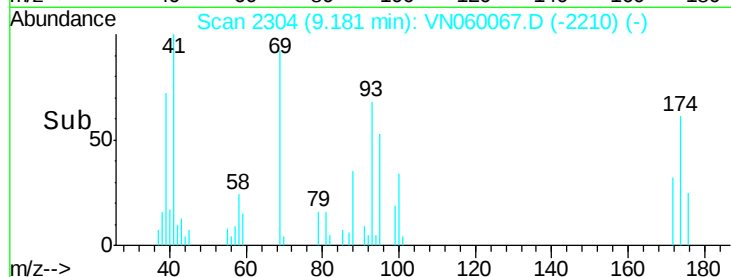
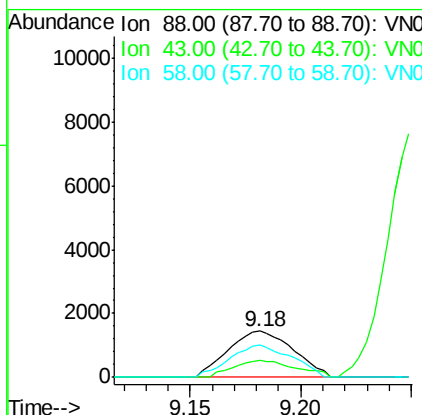
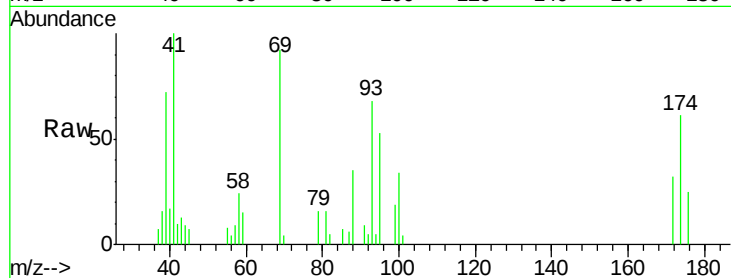
#49
1,4-Dioxane
Concen: 93.407 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	88	Resp	2969
Ion	Ratio	Lower	Upper
88	100		
43	34.8	26.2	39.2
58	66.4	53.2	79.8

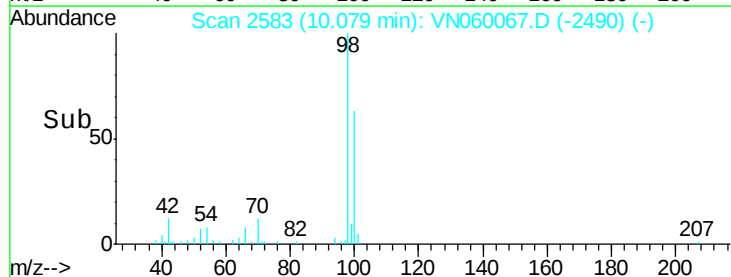
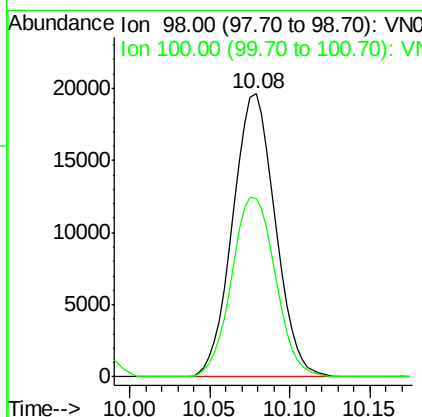
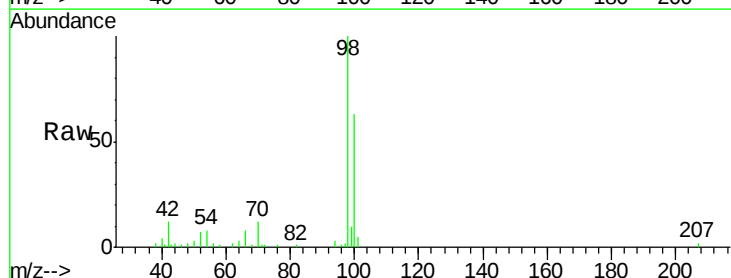
Manual Integrations
APPROVED

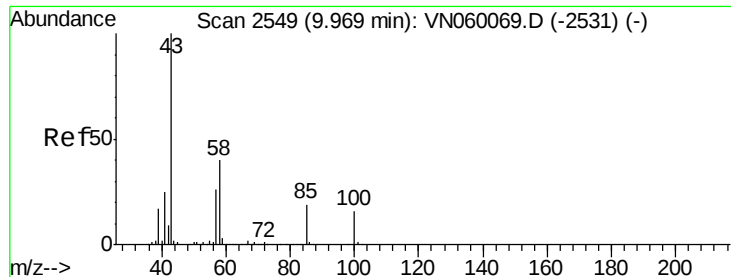
MMDadoda
2/13/2020 10:37:00 AM



#50
Toluene-d8
Concen: 4.922 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	98	Resp	35663
Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 23.552 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 57855

Ion Ratio Lower Upper

43 100

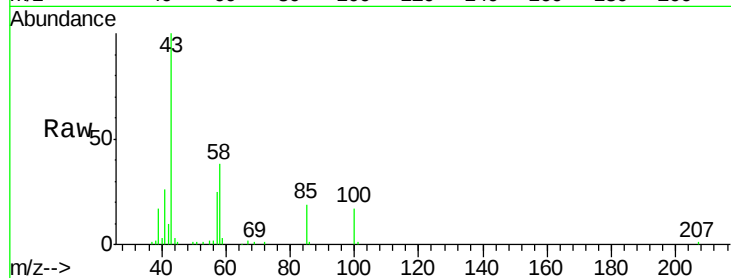
58 38.5 31.8 47.8

Manual Integrations

APPROVED

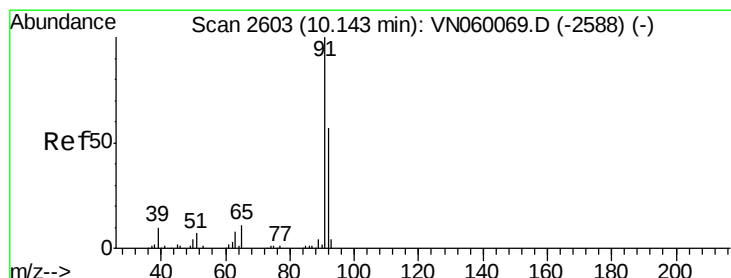
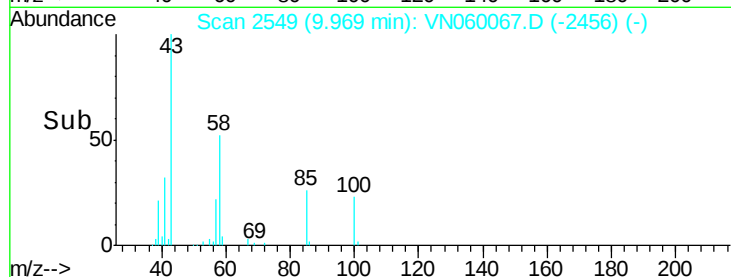
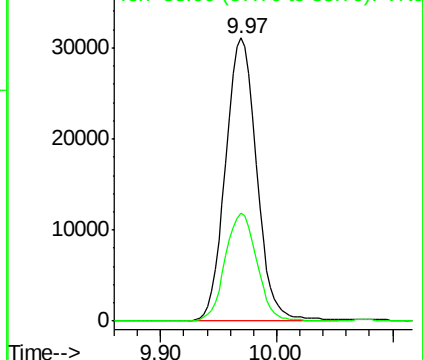
MMDadoda

2/13/2020 10:37:00 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.788 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060067.D

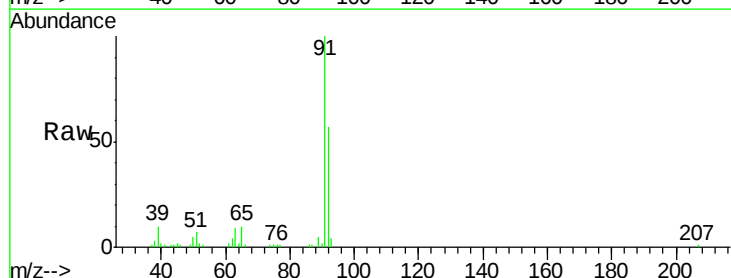
Acq: 12 Feb 2020 11:42

Tgt Ion: 92 Resp: 25605

Ion Ratio Lower Upper

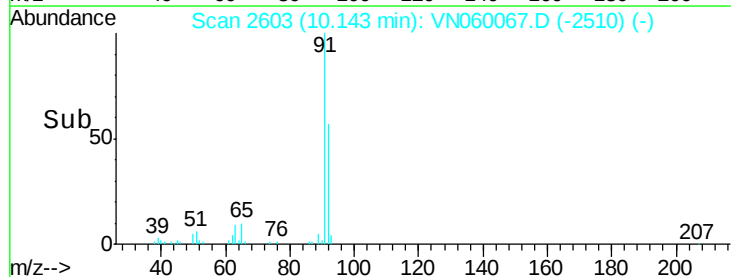
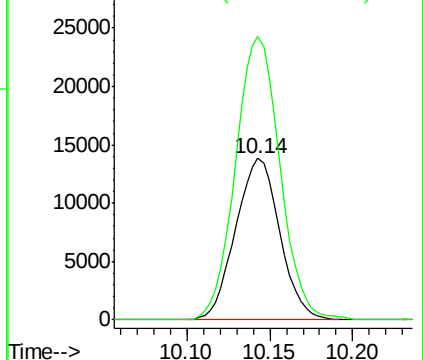
92 100

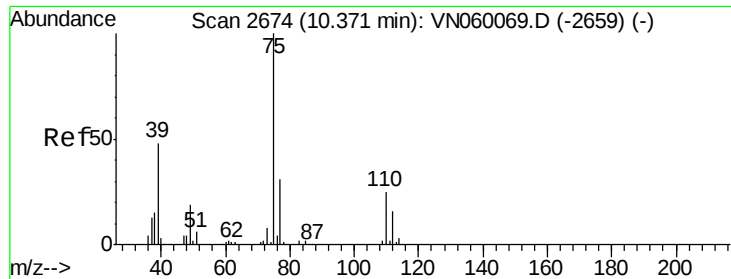
91 177.0 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#53

t-1,3-Dichloropropene

Concen: 4.826 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 75 Resp: 15824

Ion Ratio Lower Upper

75 100

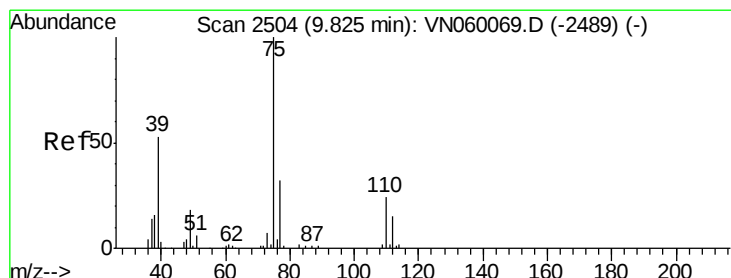
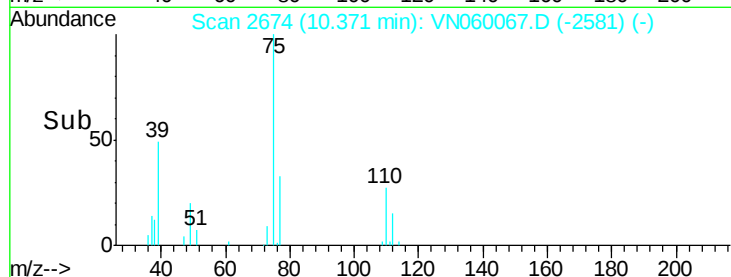
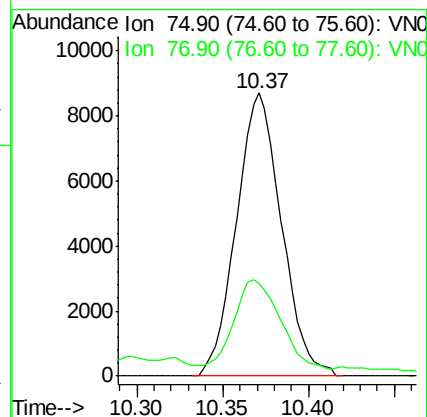
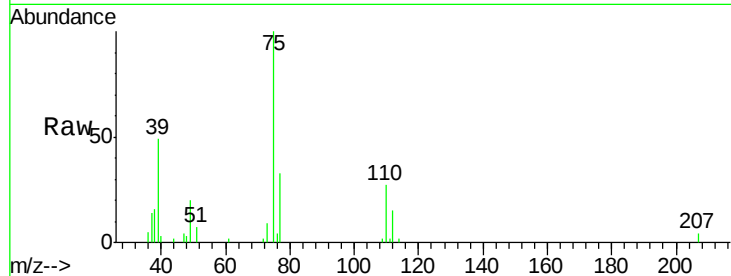
77 29.6 25.4 38.0

Manual Integrations

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MMDadoda

2/13/2020 10:37:00 AM



#54

cis-1,3-Dichloropropene

Concen: 4.794 ug/l

RT: 9.83 min Scan# 2505

Delta R.T. 0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

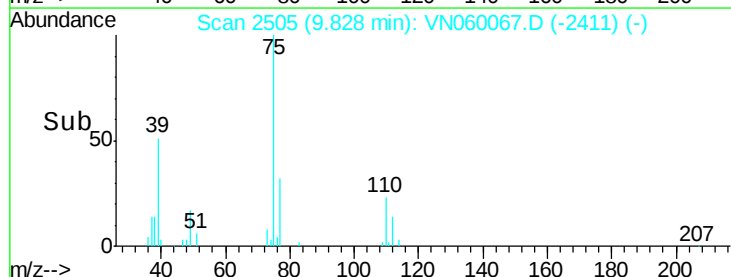
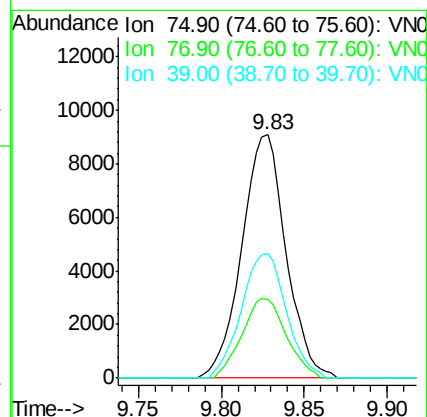
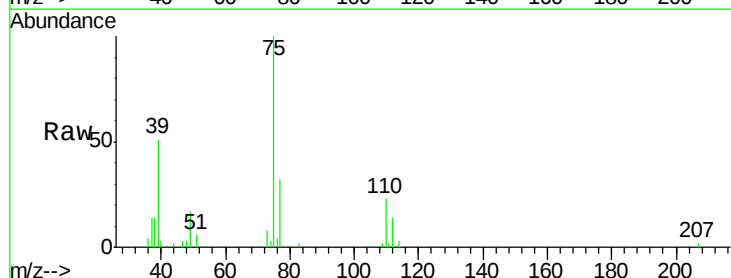
Tgt Ion: 75 Resp: 16801

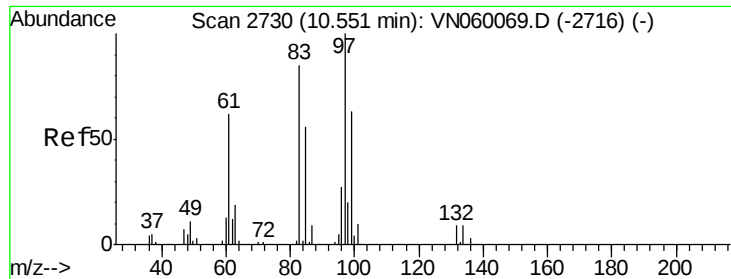
Ion Ratio Lower Upper

75 100

77 32.2 25.6 38.4

39 51.2 42.2 63.4





#55

1,1,2-Trichloroethane

Concen: 4.758 ug/l

RT: 10.55 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

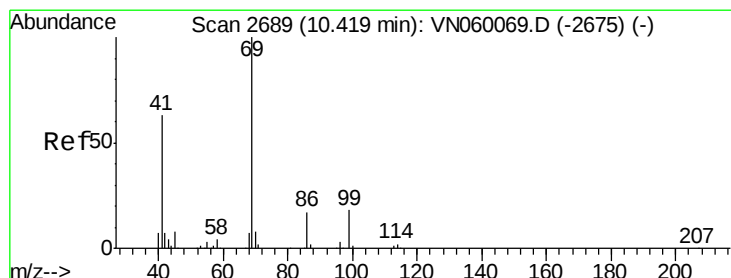
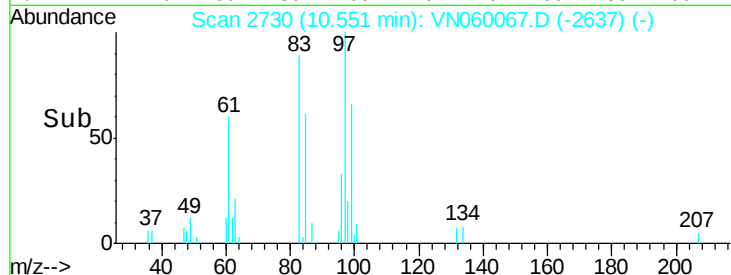
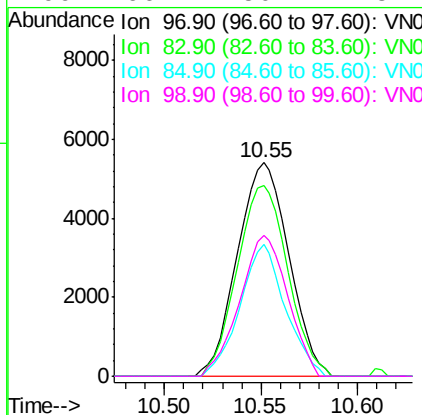
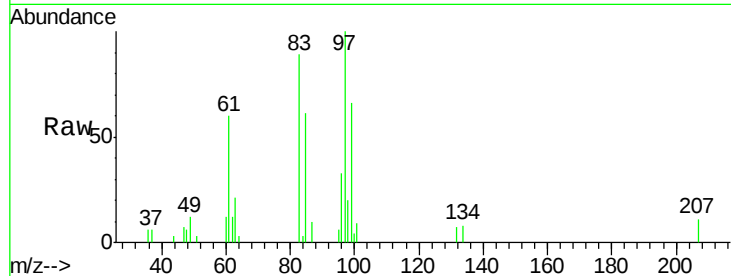
ClientSampleId :

VSTDIC005

Tot Ion:	97	Resp:	9994
Ion	Ratio	Lower	Upper
97	100		
83	89.1	67.9	101.9
85	61.4	44.6	67.0
99	66.1	50.1	75.1

Manual Integrations
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MMDadoda
2/13/2020 10:37:00 AM



#56

Ethyl methacrylate

Concen: 4.442 ug/l

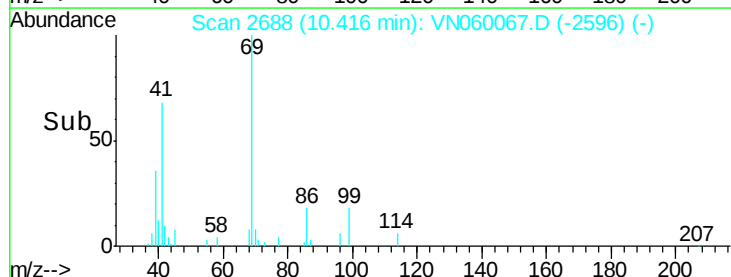
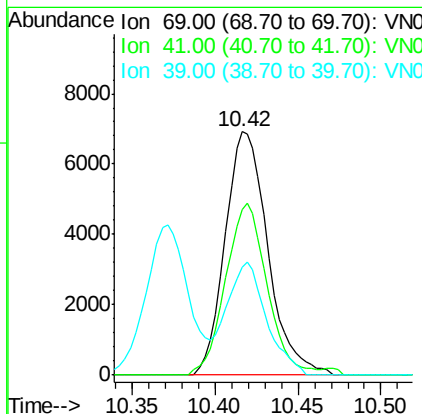
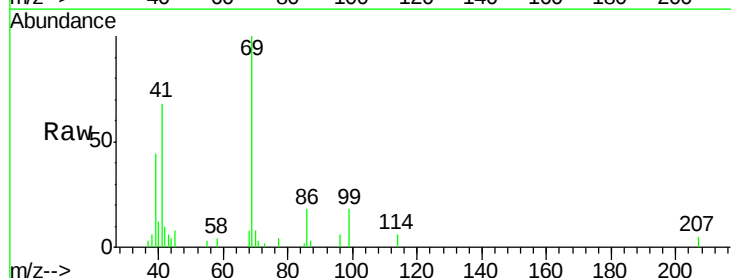
RT: 10.42 min Scan# 2688

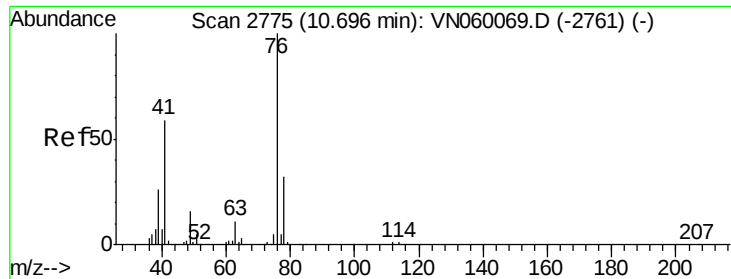
Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion:	69	Resp:	12413
Ion	Ratio	Lower	Upper
69	100		
41	68.2	51.1	76.7
39	43.4	33.8	50.8





#57

1,3-Dichloropropane

Concen: 4.797 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. 0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 16660

Ion Ratio Lower Upper

76 100

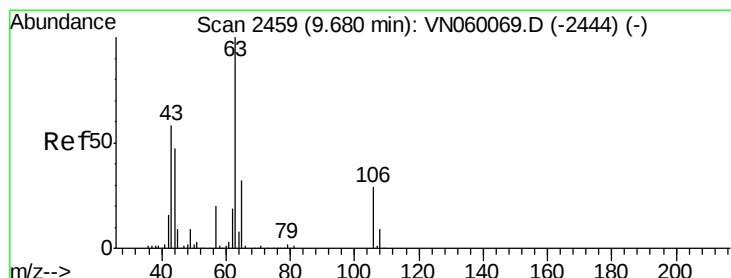
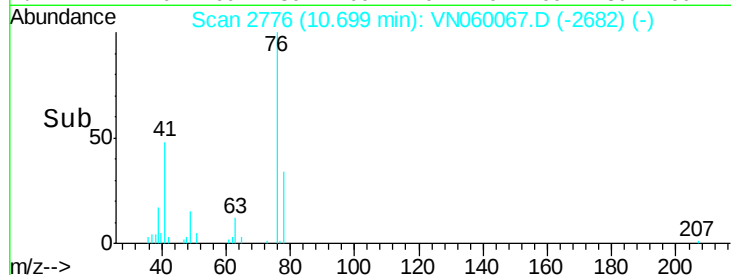
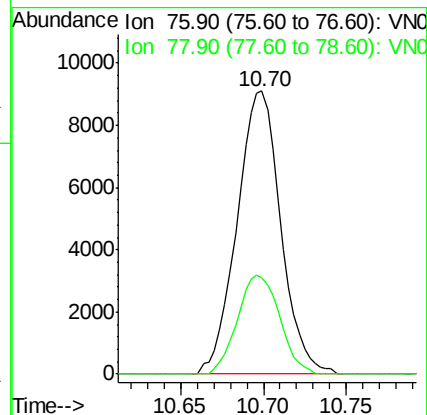
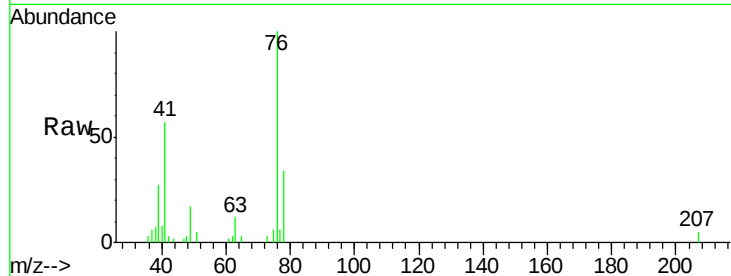
78 33.8 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

2/13/2020 10:37:00 AM



#58

2-Chloroethyl Vinyl ether

Concen: 25.662 ug/l

RT: 9.68 min Scan# 2459

Delta R.T. -0.00 min

Lab File: VN060067.D

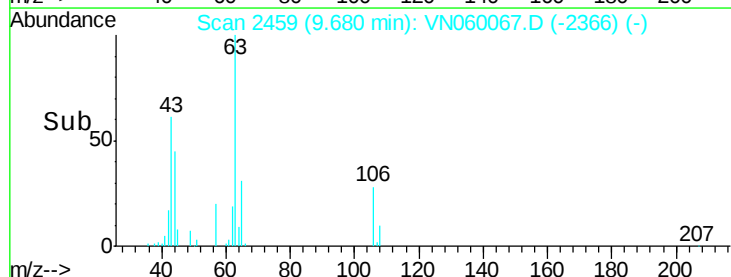
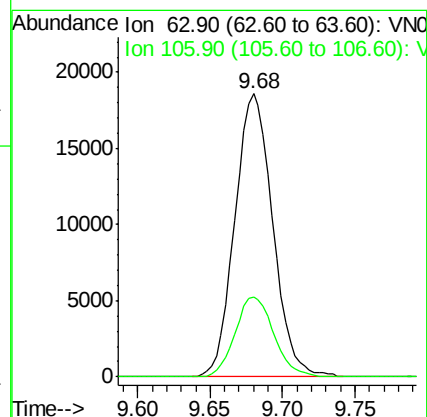
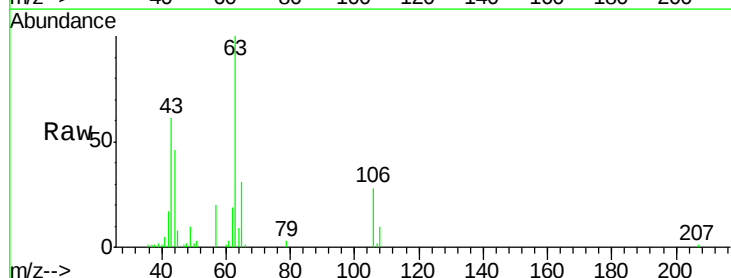
Acq: 12 Feb 2020 11:42

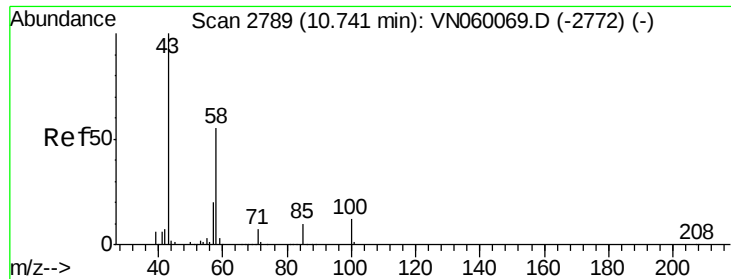
Tgt Ion: 63 Resp: 33812

Ion Ratio Lower Upper

63 100

106 28.8 22.9 34.3





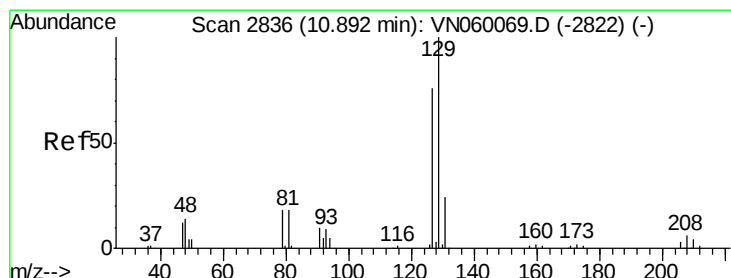
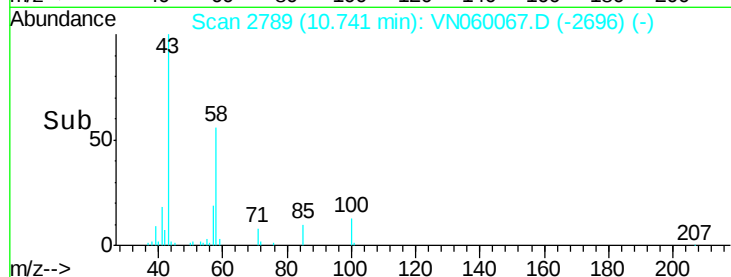
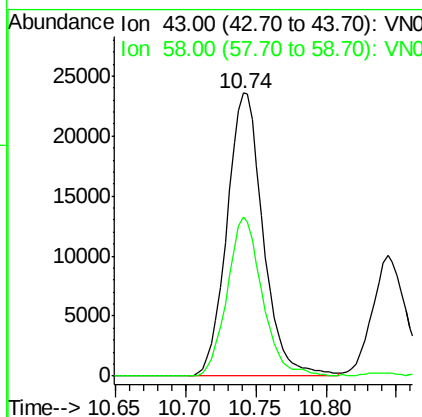
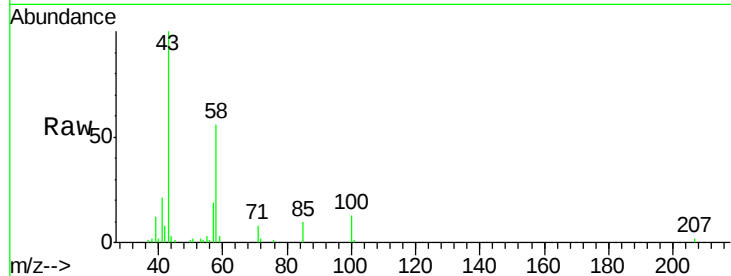
#59
2-Hexanone
Concen: 22.561 ug/l
RT: 10.74 min Scan# 2789
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 42273
Ion Ratio Lower Upper
43 100
58 54.3 27.5 82.4

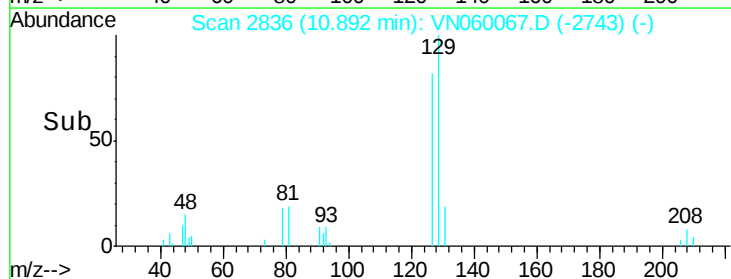
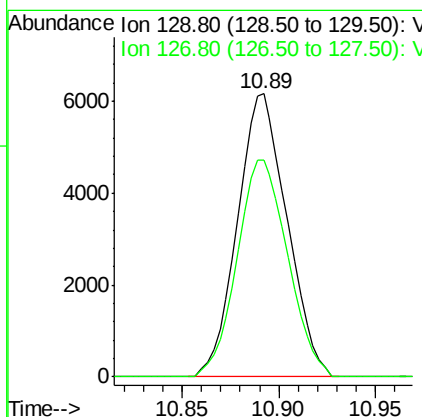
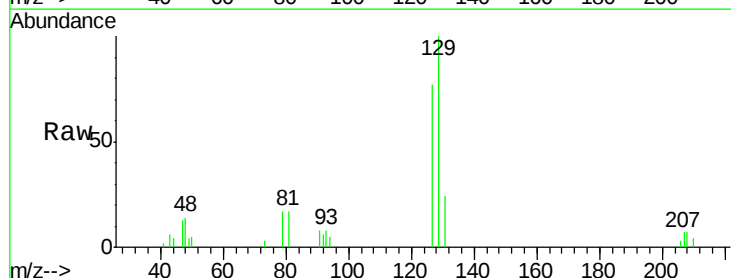
Manual Integrations
APPROVED

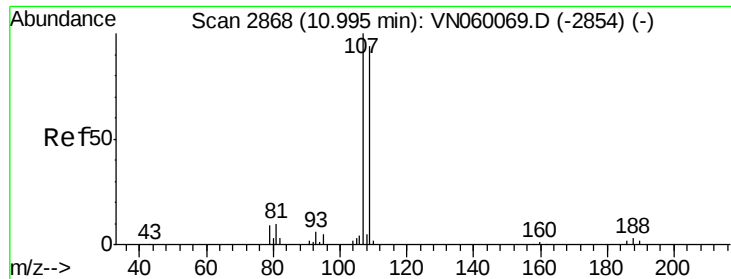
MMDadoda
2/13/2020 10:37:00 AM



#60
Dibromochloromethane
Concen: 4.661 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 129 Resp: 10955
Ion Ratio Lower Upper
129 100
127 78.3 38.0 114.1





#61

1,2-Dibromoethane

Concen: 4.727 ug/l

RT: 10.99 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 10208

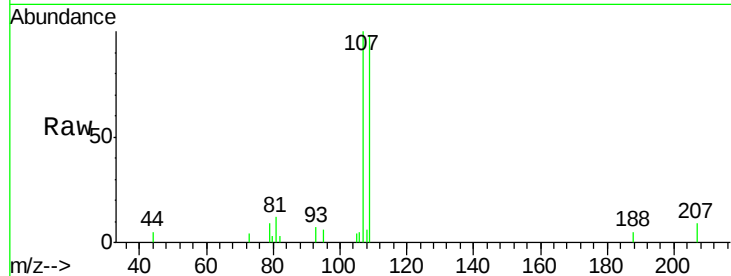
Ion Ratio Lower Upper

107 100

109 95.6 75.4 113.0

Manual Integrations
APPROVED

MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

10.99

6000

5000

4000

3000

2000

1000

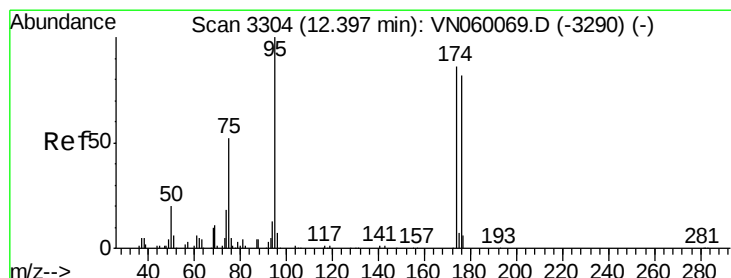
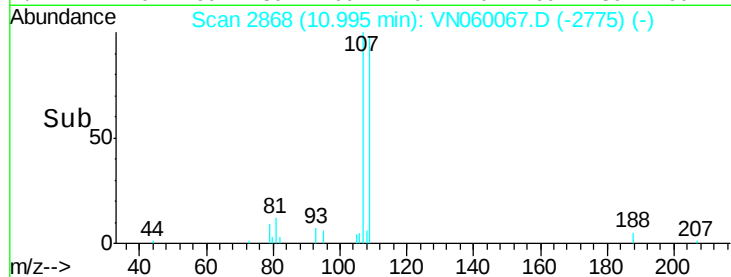
0

10.95

11.00

11.05

Time-->



#62

4-Bromofluorobenzene

Concen: 4.914 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

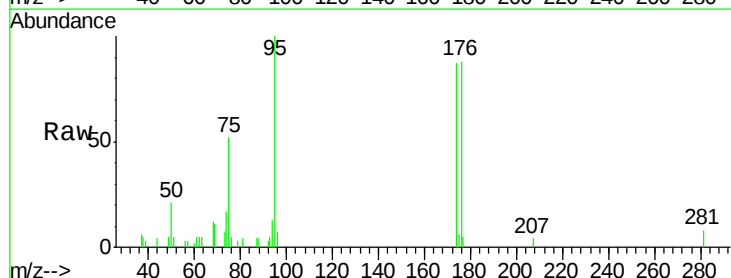
Tgt Ion: 95 Resp: 12782

Ion Ratio Lower Upper

95 100

174 82.2 0.0 169.8

176 83.6 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

10000

8000

6000

4000

2000

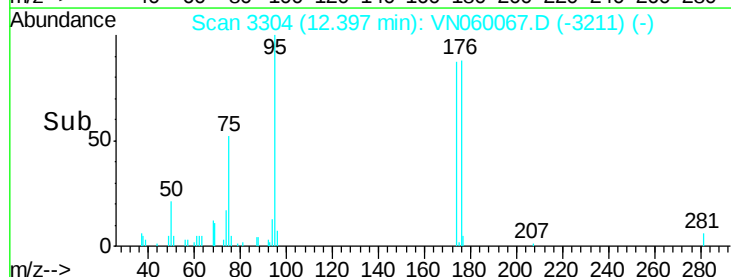
0

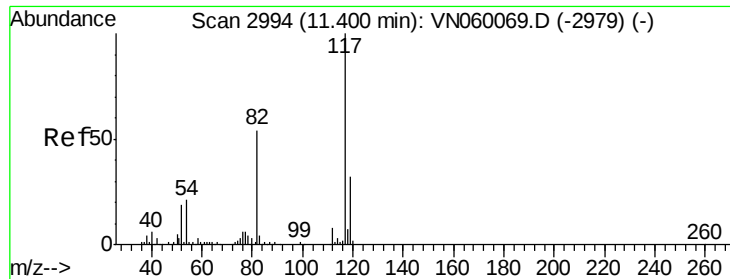
12.35

12.40

12.45

Time-->





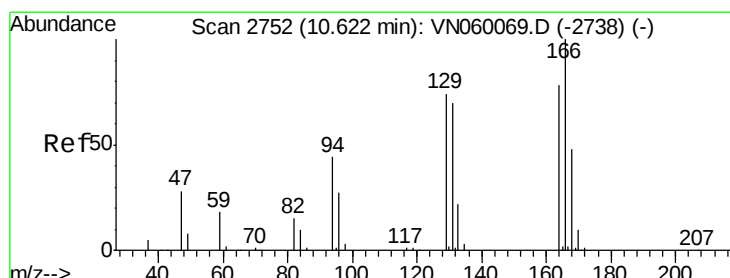
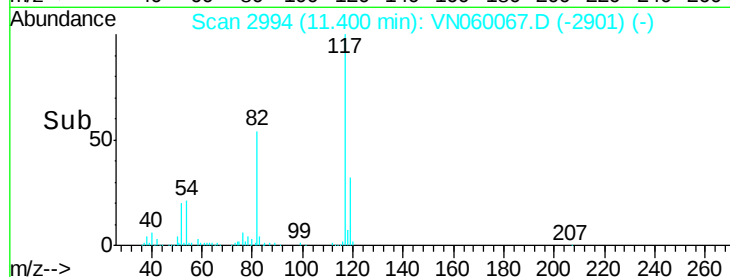
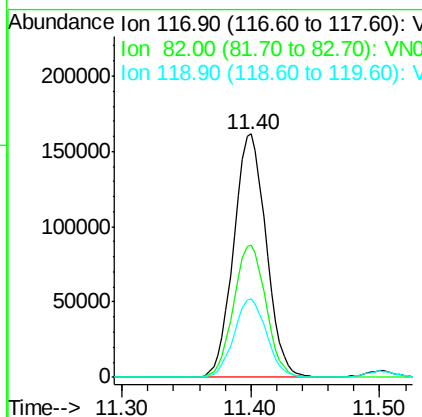
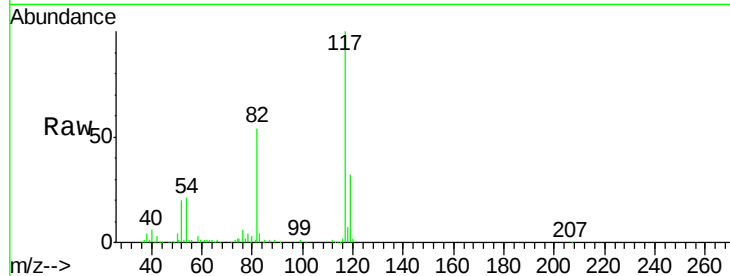
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
117	100	282817		
82	54.5	43.4	65.0	
119	32.3	25.8	38.6	

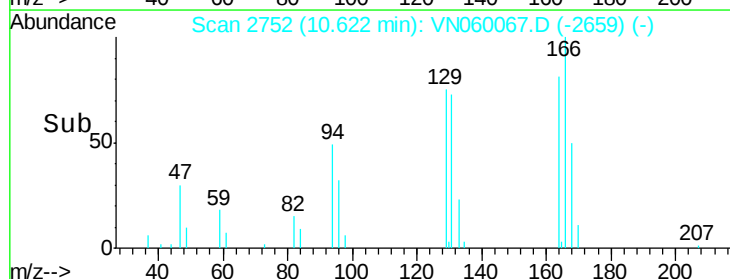
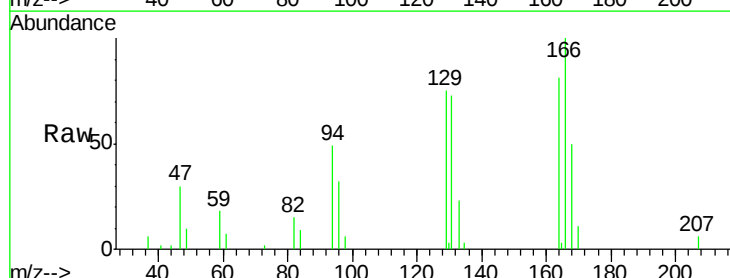
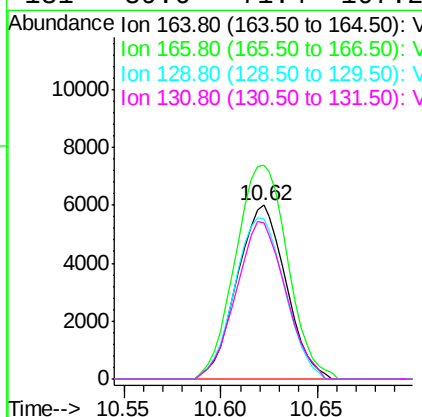
Manual Integrations
APPROVED

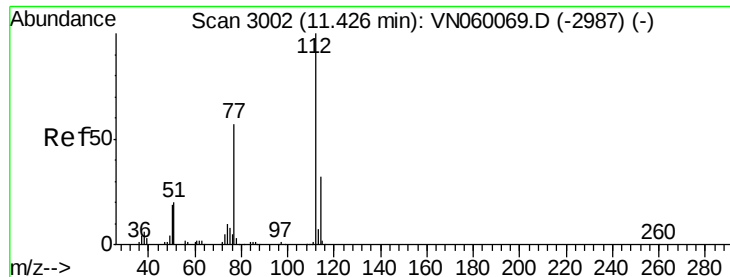
MMDadoda
2/13/2020 10:37:00 AM



#64
Tetrachloroethene
Concen: 4.765 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	10572		
166	122.9	101.9	152.9	
129	92.3	75.4	113.0	
131	89.6	71.4	107.2	





#65

Chlorobenzene

Concen: 4.811 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 27850

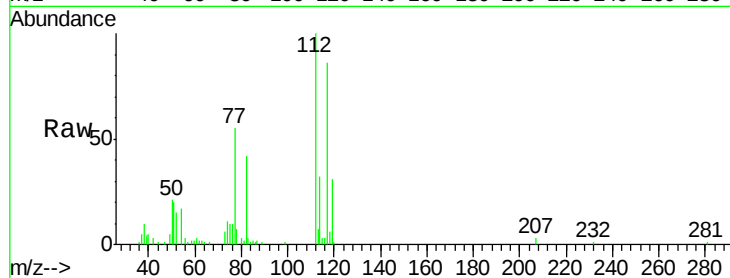
Ion Ratio Lower Upper

112 100

114 31.9 25.4 38.0

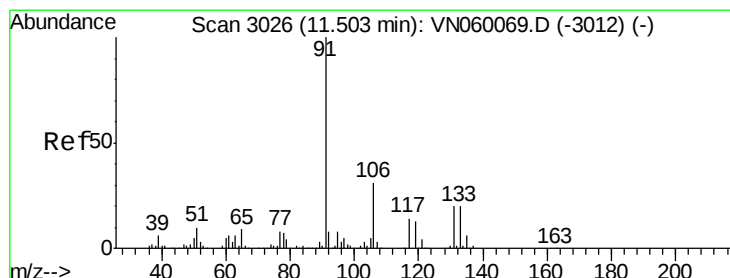
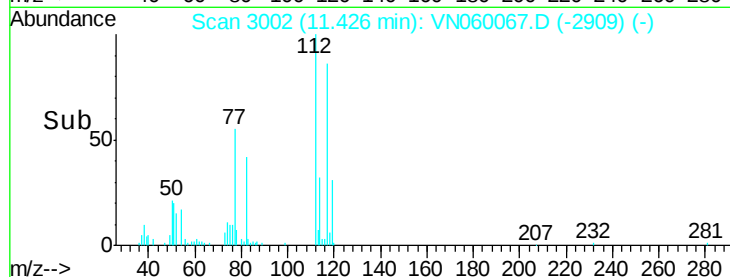
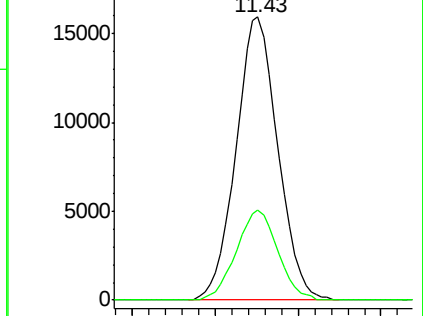
Manual Integrations
APPROVED

MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.909 ug/l

RT: 11.50 min Scan# 3025

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

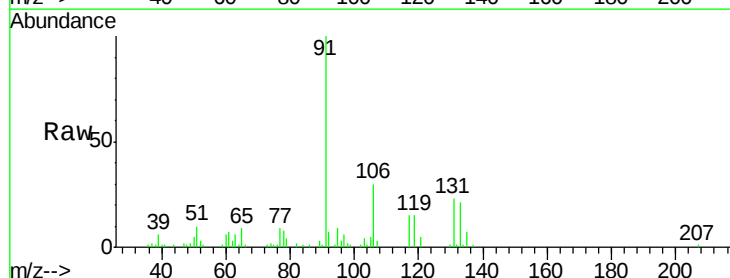
Tgt Ion:131 Resp: 10636

Ion Ratio Lower Upper

131 100

133 95.9 47.9 143.7

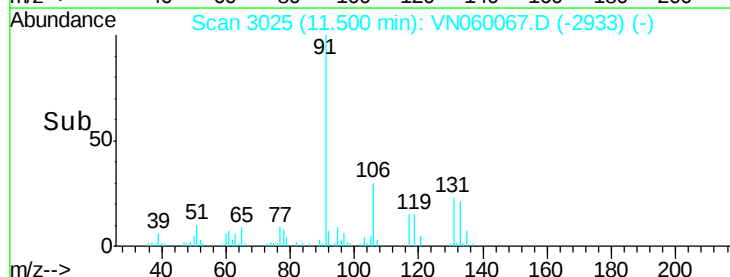
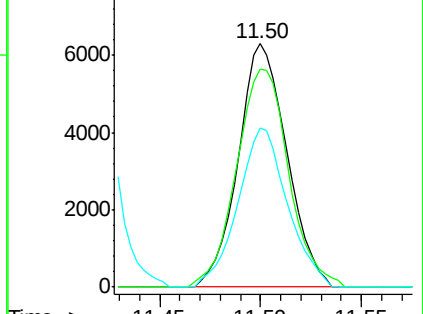
119 66.4 32.6 97.7

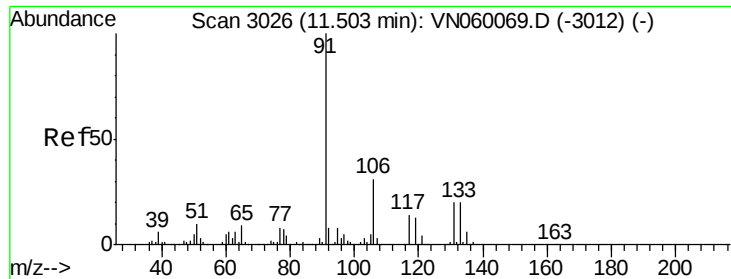


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





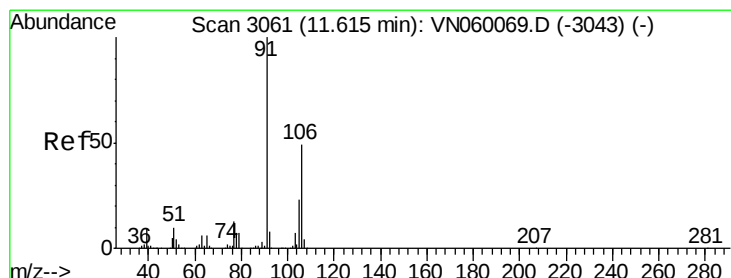
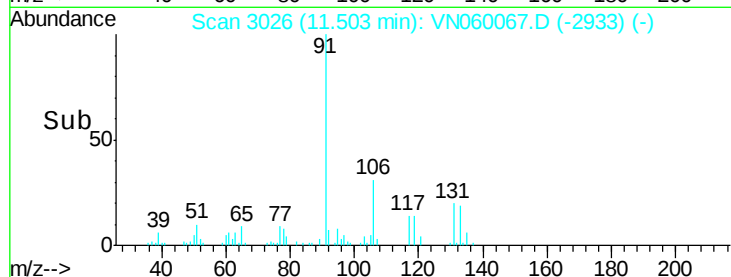
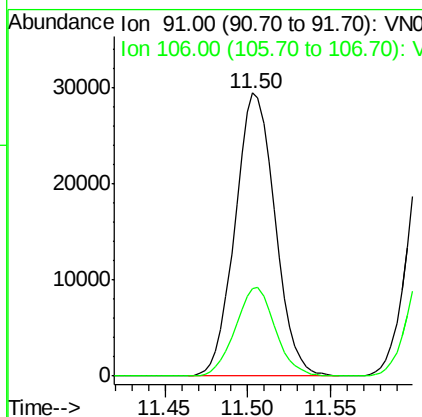
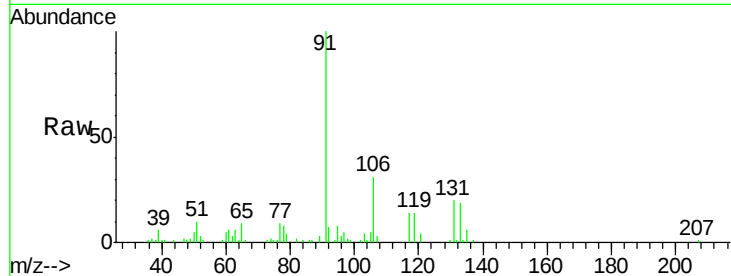
#67
Ethyl Benzene
Concen: 4.754 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 49508
Ion Ratio Lower Upper
91 100
106 30.9 25.1 37.7

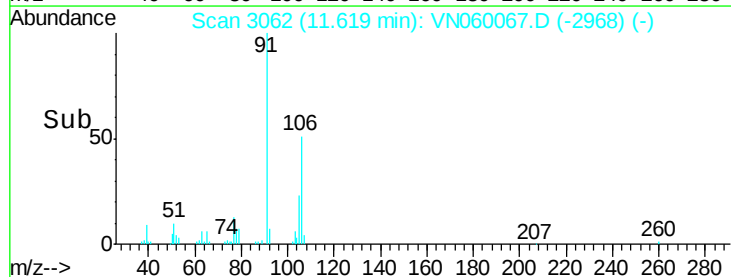
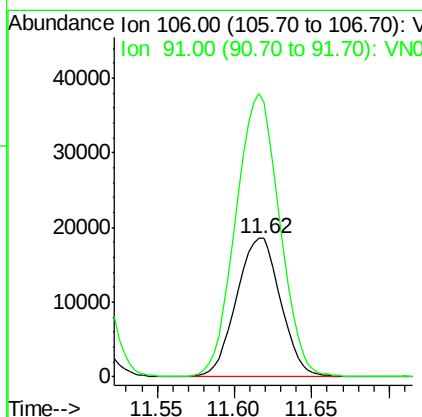
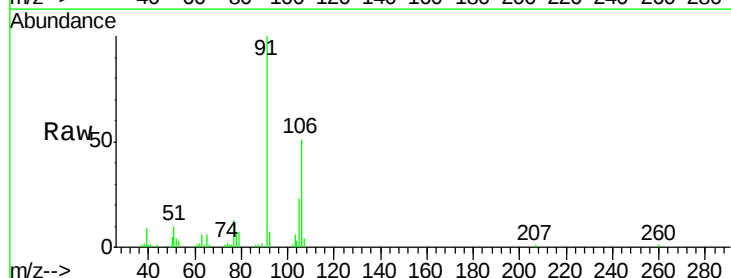
Manual Integrations
APPROVED

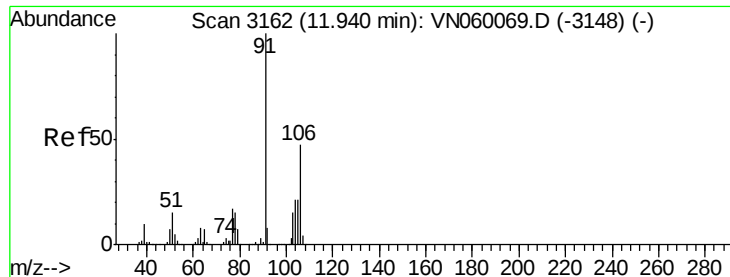
MMDadoda
2/13/2020 10:37:00 AM



#68
m/p-Xylenes
Concen: 9.517 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion: 106 Resp: 36881
Ion Ratio Lower Upper
106 100
91 202.7 162.7 244.1





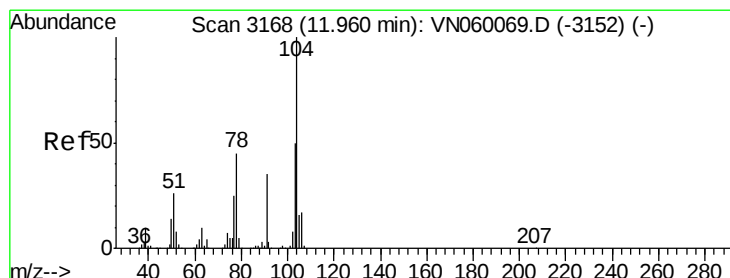
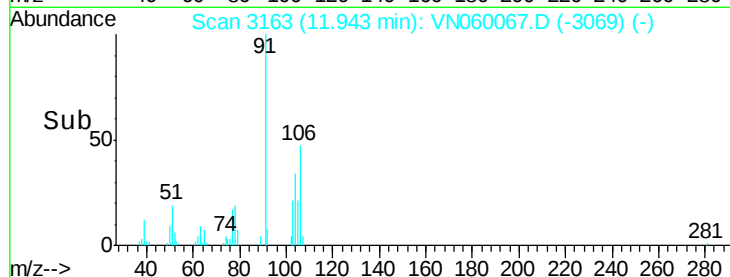
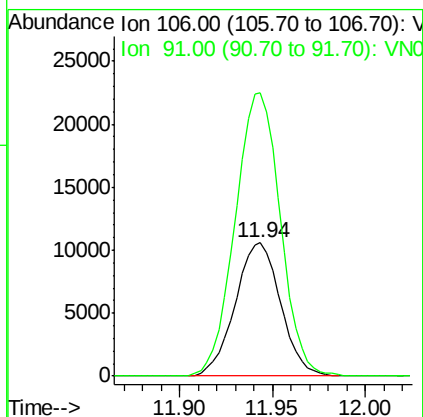
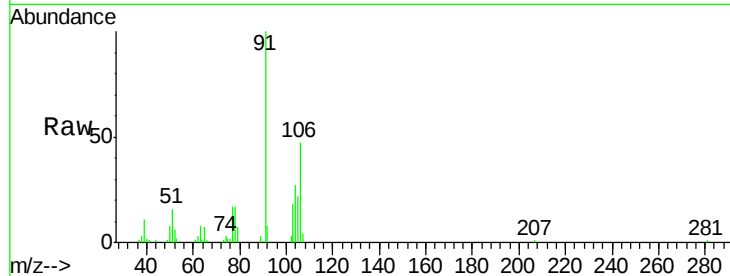
#69
o-Xylene
Concen: 4.843 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 18037
Ion Ratio Lower Upper
106 100
91 211.4 107.2 321.6

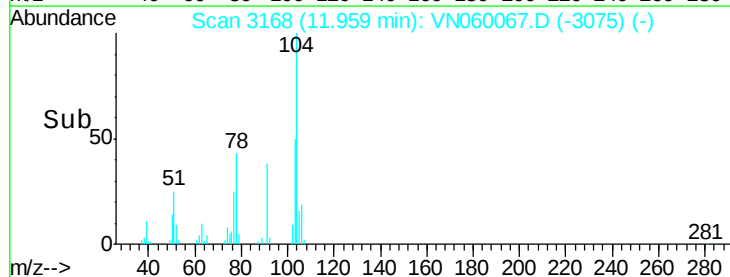
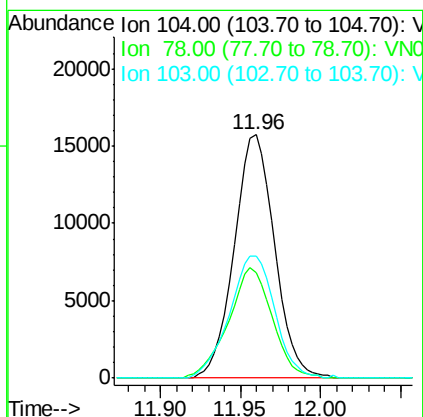
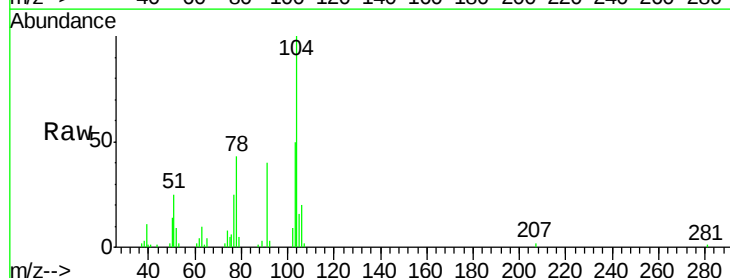
Manual Integrations
APPROVED

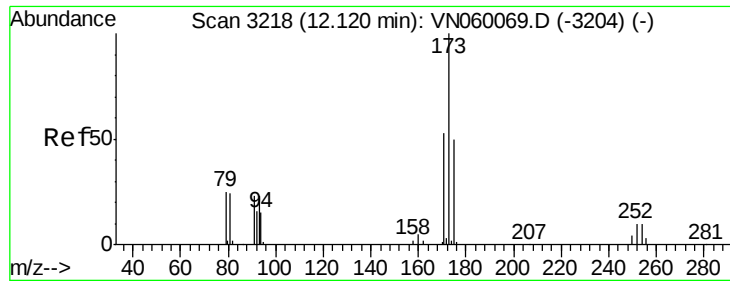
MMDadoda
2/13/2020 10:37:00 AM



#70
Styrene
Concen: 4.684 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion:104 Resp: 27060
Ion Ratio Lower Upper
104 100
78 49.2 40.2 60.2
103 56.2 44.3 66.5





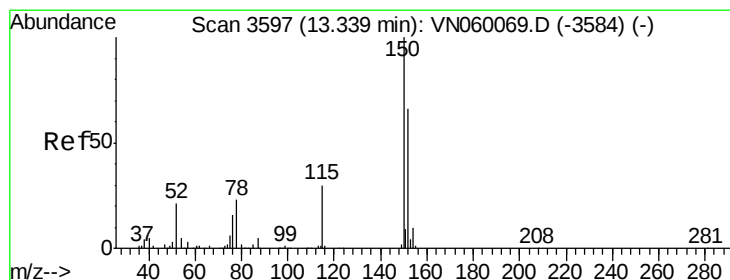
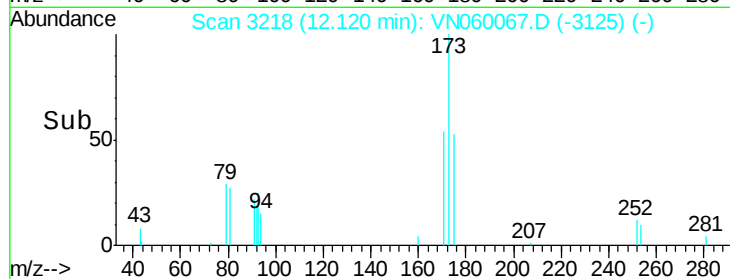
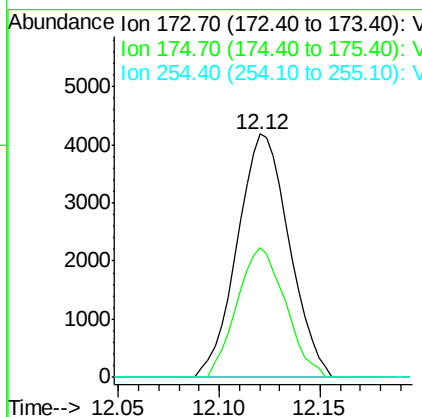
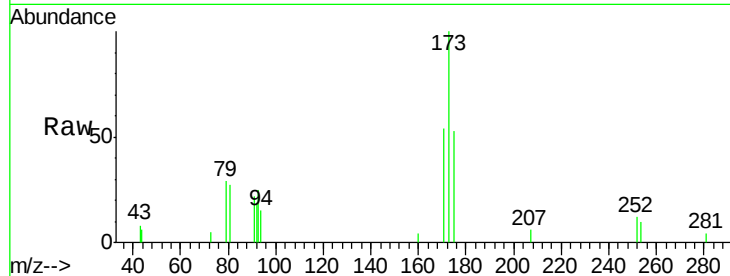
#71
Bromoform
Concen: 4.530 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.9	74.6
254	0.0	0.0	0.0

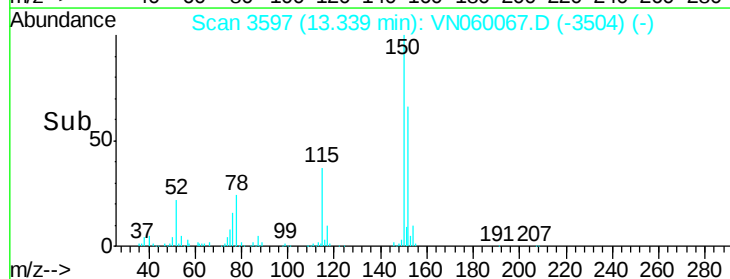
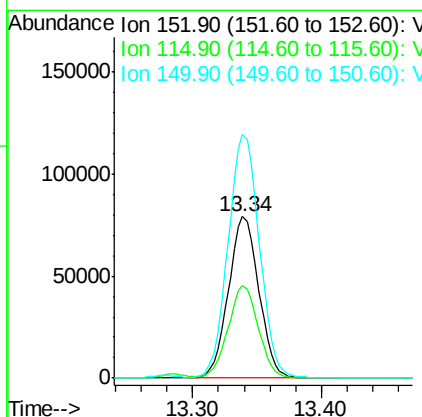
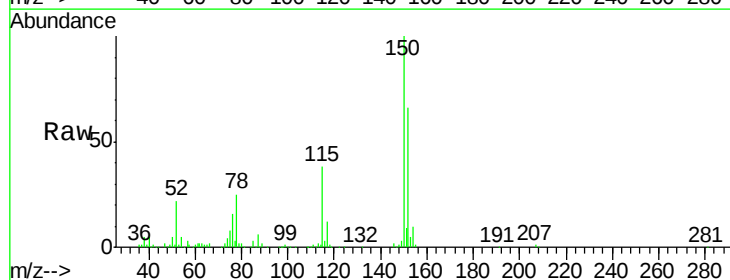
Manual Integrations
APPROVED

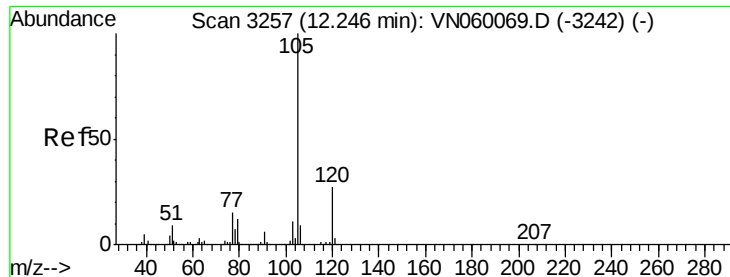
MMDadoda
2/13/2020 10:37:00 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.9	28.9	86.8
150	154.6	0.0	342.4





#73

Isopropylbenzene

Concen: 4.744 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 47057

Ion Ratio Lower Upper

105 100

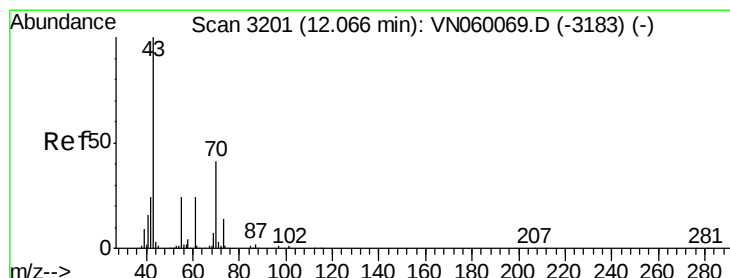
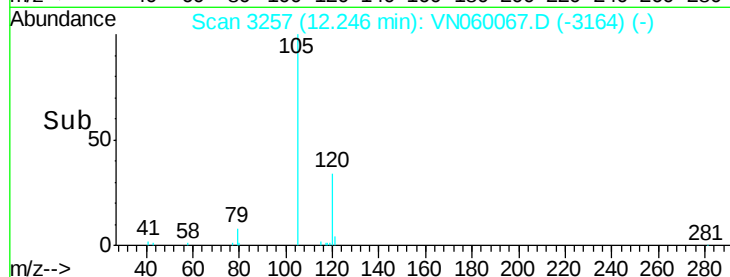
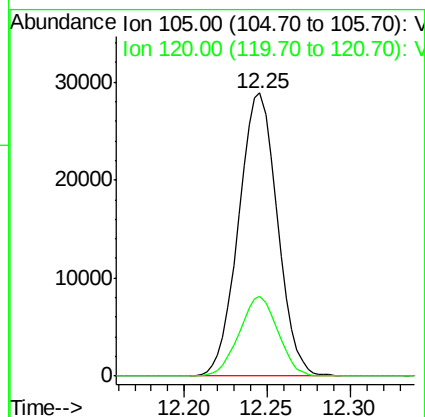
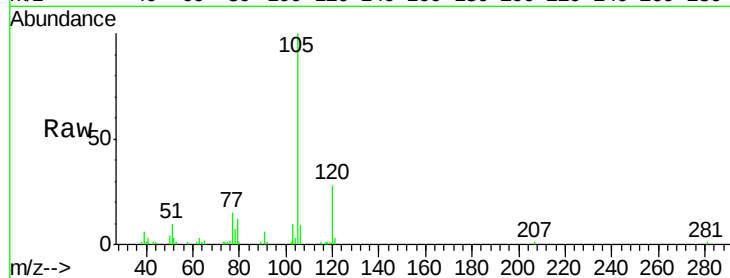
120 28.0 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

2/13/2020 10:37:00 AM



#74

N-ethyl acetate

Concen: 4.513 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion: 43 Resp: 15271

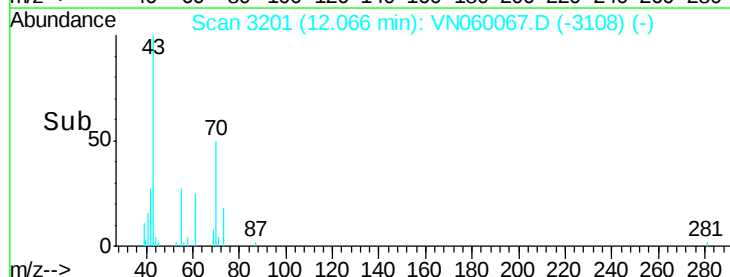
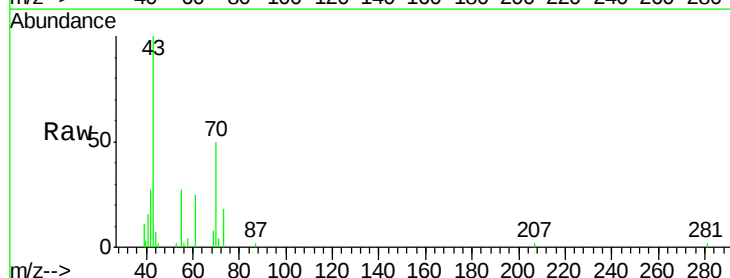
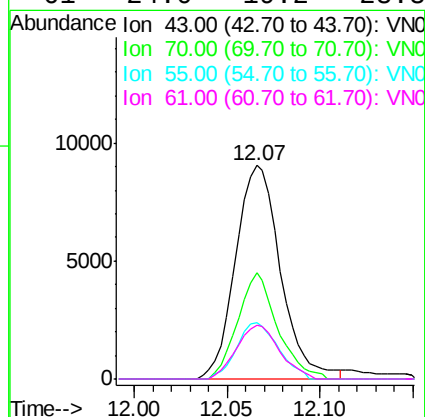
Ion Ratio Lower Upper

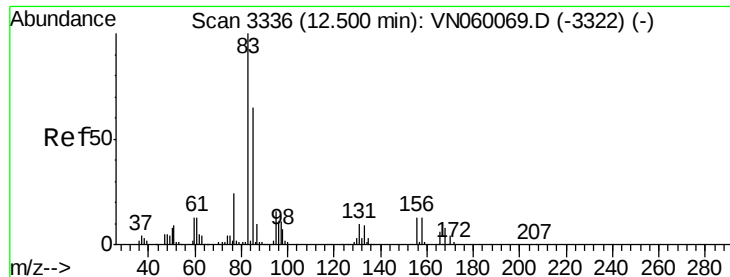
43 100

70 43.8 33.4 50.0

55 24.2 18.8 28.2

61 24.0 19.2 28.8





#75

1,1,2,2-Tetrachloroethane

Concen: 4.801 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

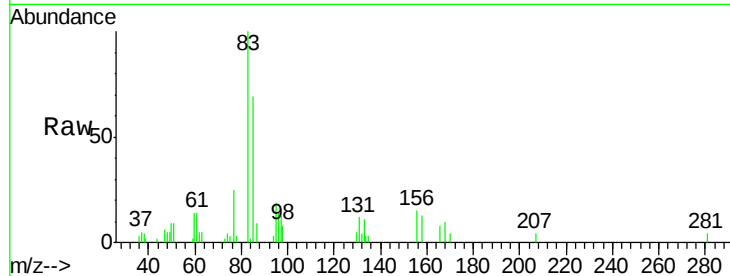
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	13482
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.2	15.6
85	65.1	32.3	96.9

Manual Integrations
APPROVED

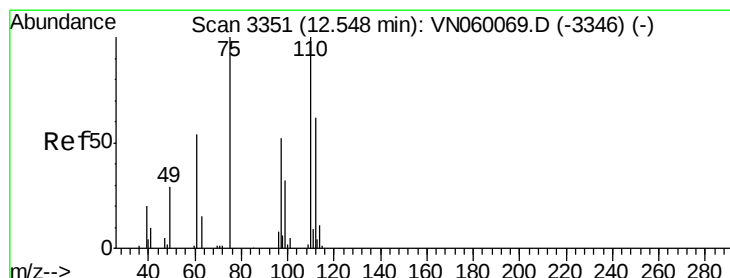
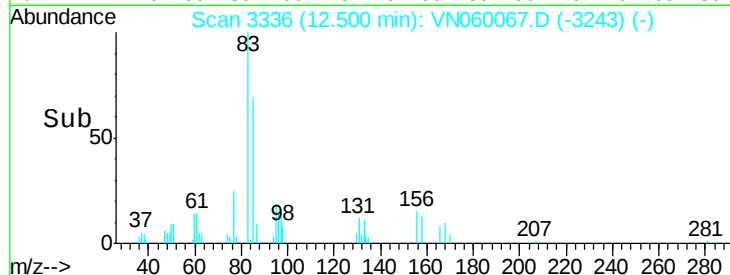
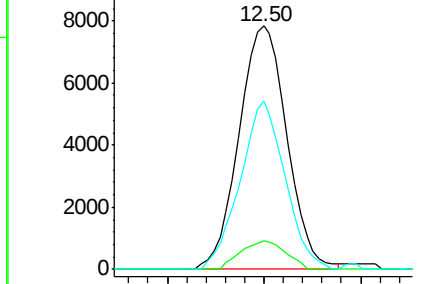
MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 82.90 (82.60 to 83.60): VN060069.D (-3322) (-)

Ion 130.80 (130.50 to 131.50): VN060069.D (-3322) (-)

Ion 84.90 (84.60 to 85.60): VN060069.D (-3322) (-)



#76

1,2,3-Trichloropropane

Concen: 3.392 ug/l m

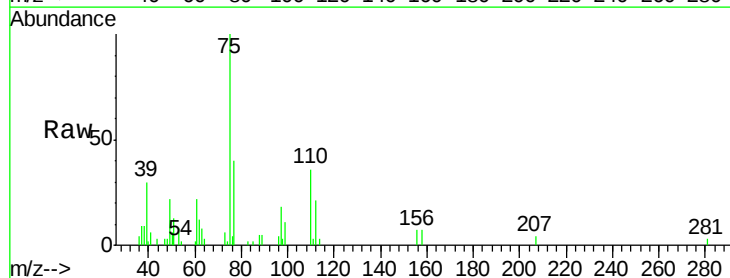
RT: 12.55 min Scan# 3351

Delta R.T. -0.00 min

Lab File: VN060067.D

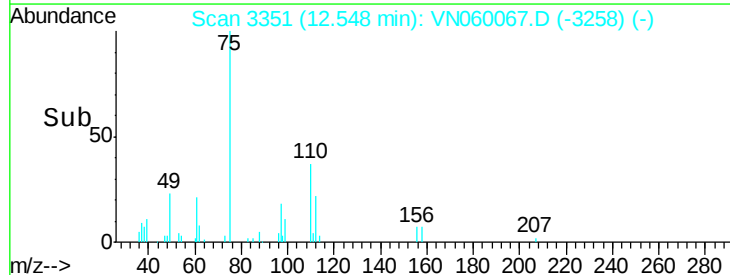
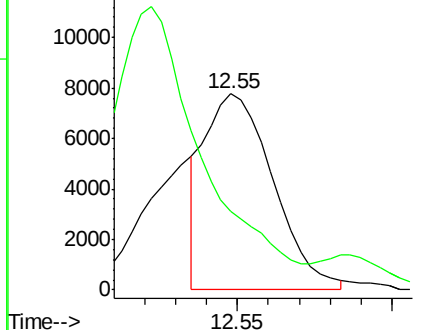
Acq: 12 Feb 2020 11:42

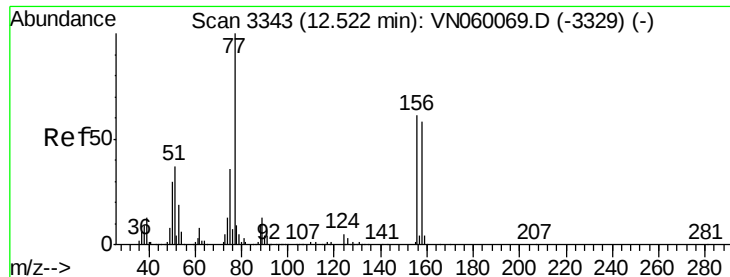
Tgt Ion:	75	Resp:	11959
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3346) (-)





#77

Bromobenzene

Concen: 4.936 ug/l

RT: 12.52 min Scan# 3343

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

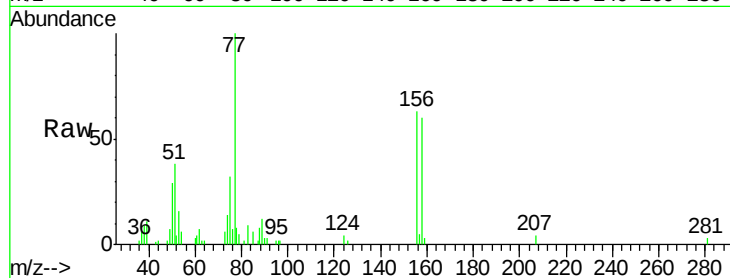
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	12052
Ion Ratio	Lower	Upper	
156	100		
77	195.1	98.7	296.1
158	96.7	48.1	144.4

Manual Integrations
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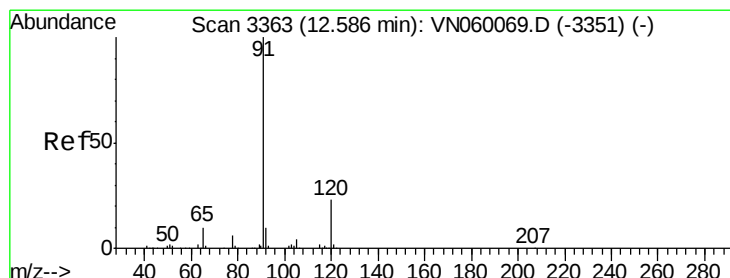
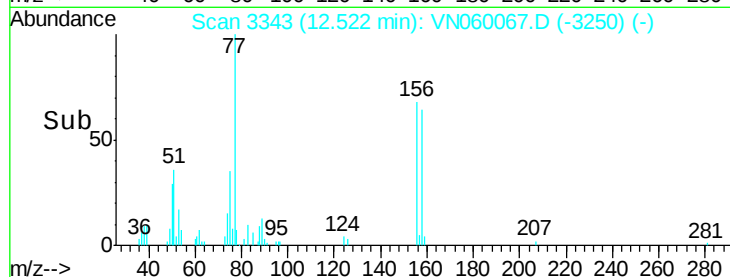
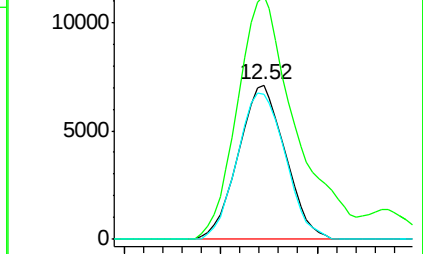
MMDadoda
2/13/2020 10:37:00 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.748 ug/l

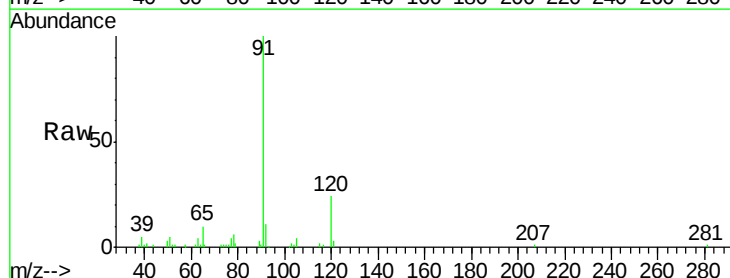
RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN060067.D

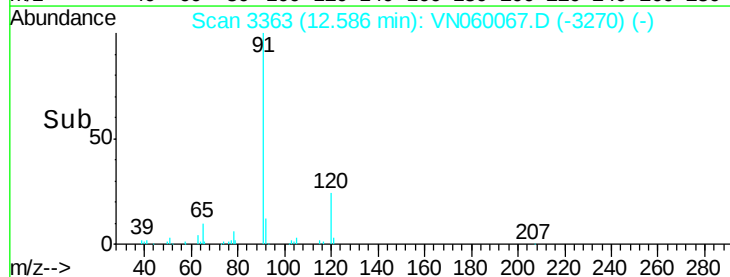
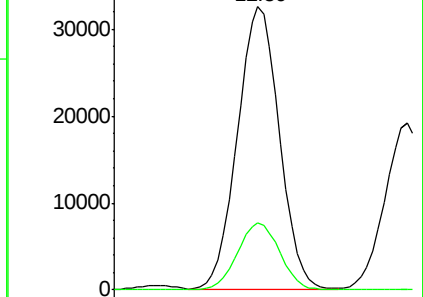
Acq: 12 Feb 2020 11:42

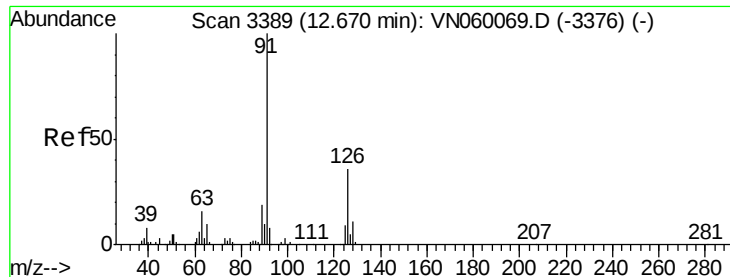
Tgt Ion:	91	Resp:	53426
Ion Ratio	Lower	Upper	
91	100		
120	23.5	11.5	34.5



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





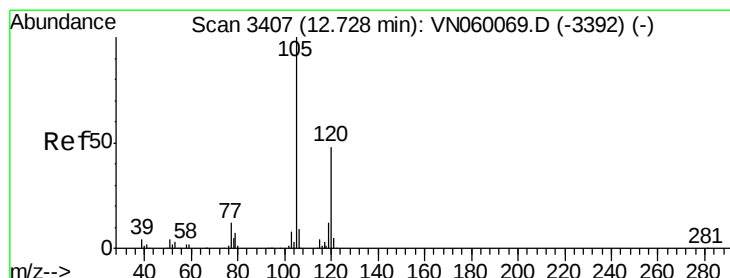
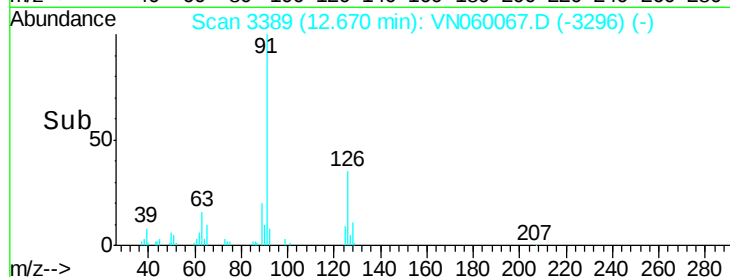
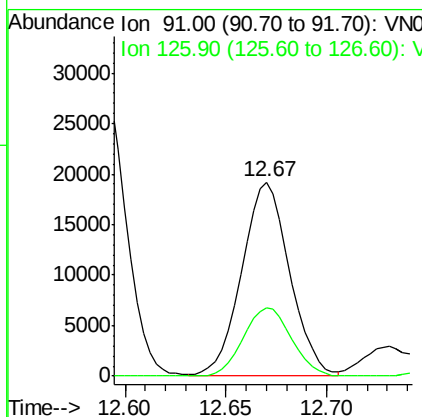
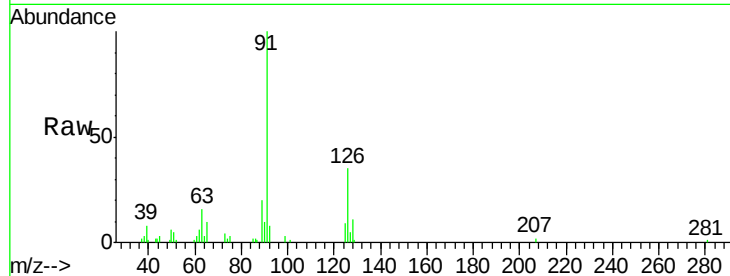
#79
 2-Chlorotoluene
 Concen: 4.810 ug/l
 RT: 12.67 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	91	Resp	31944
Ion Ratio	100	Lower	Upper
126	35.1	17.4	52.2

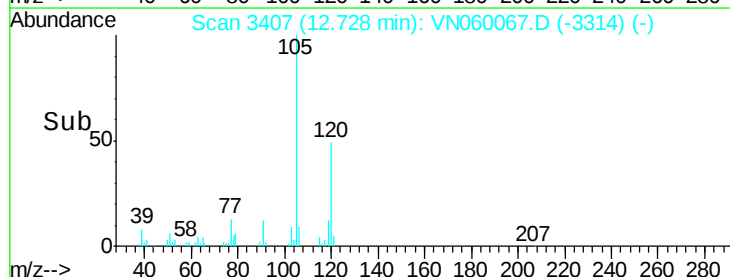
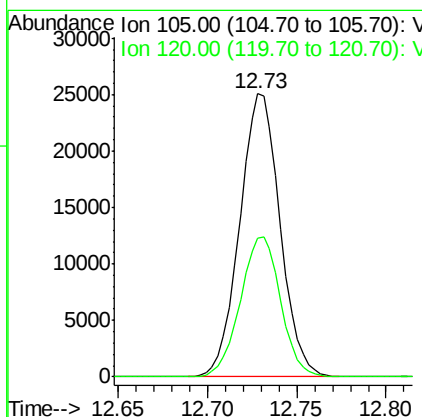
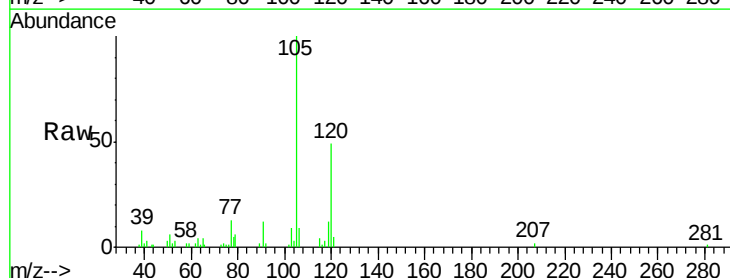
Manual Integrations
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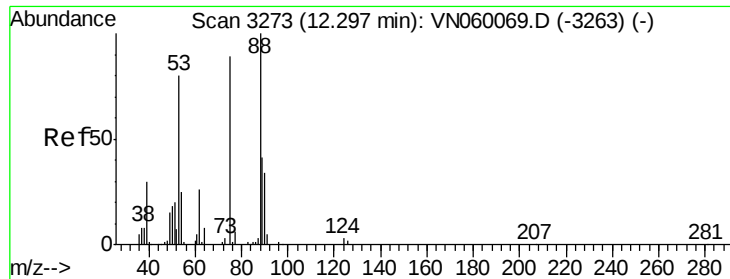
MMDadoda
 2/13/2020 10:37:00 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 4.811 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	105	Resp	39387
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
120	49.3	24.3	72.9





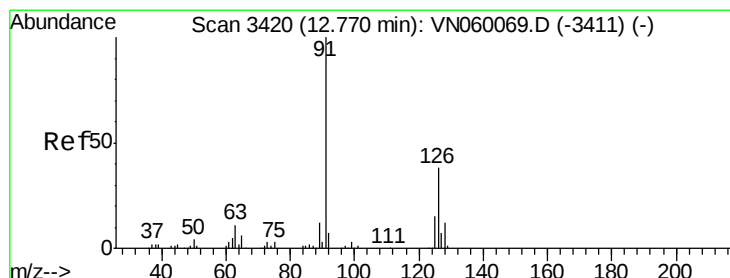
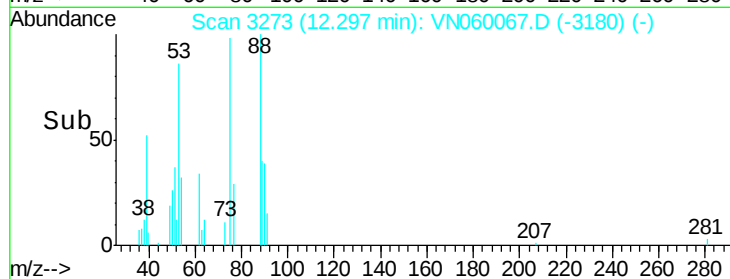
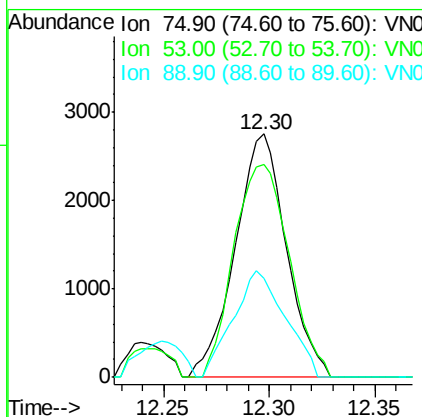
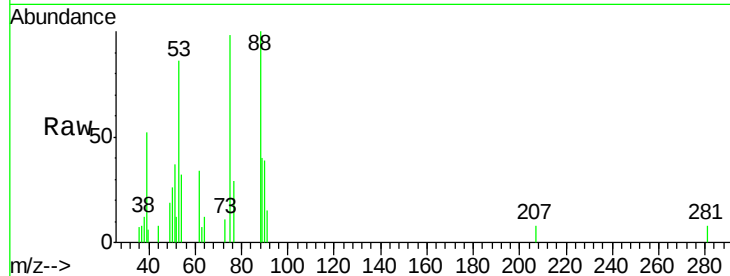
#81
trans-1,4-Dichloro-2-butene
Concen: 4.766 ug/l
RT: 12.30 min Scan# 3273
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	94.7	73.9	110.9
89	44.6	37.0	55.4

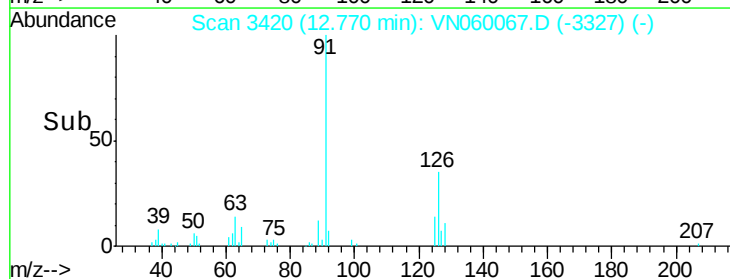
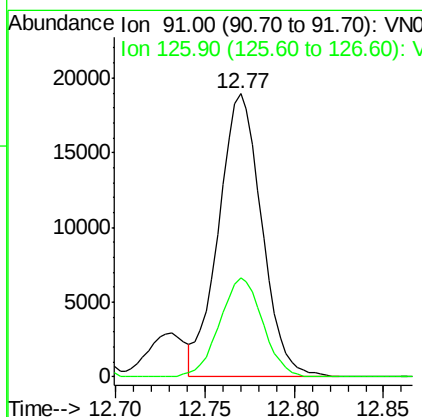
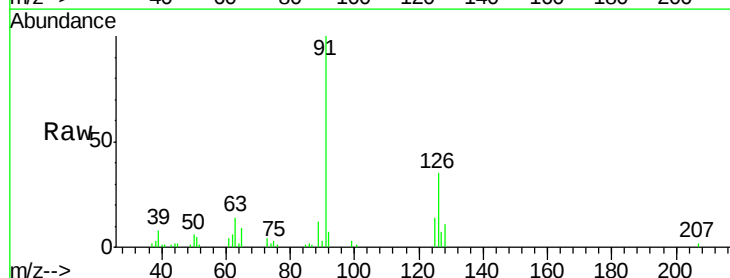
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#82
4-Chlorotoluene
Concen: 4.739 ug/l
RT: 12.77 min Scan# 3420
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	17.1	51.3





#83

tert-Butylbenzene

Concen: 4.873 ug/l

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

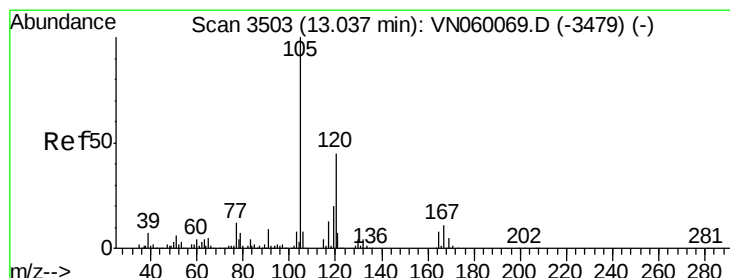
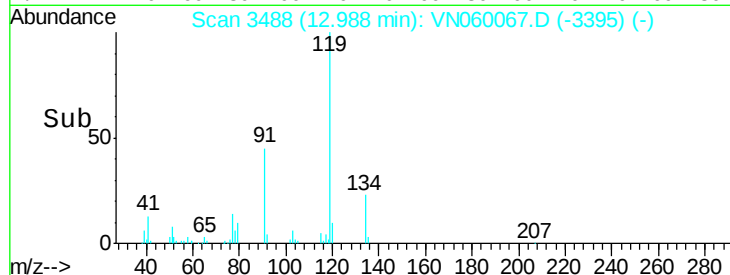
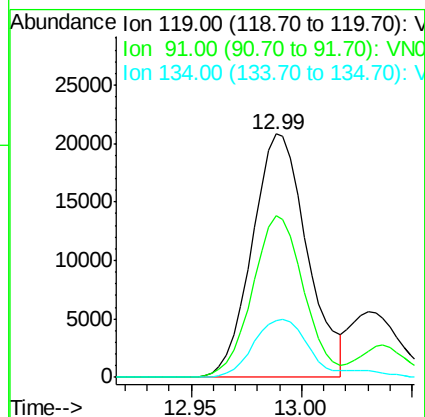
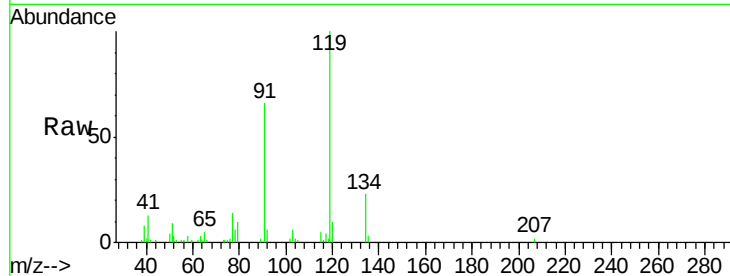
ClientSampleId :

VSTDIC005

Tot Ion:	119	Resp:	35873
Ion Ratio	Lower	Upper	
119	100		
91	62.3	32.7	98.1
134	25.6	12.9	38.7

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 4.838 ug/l

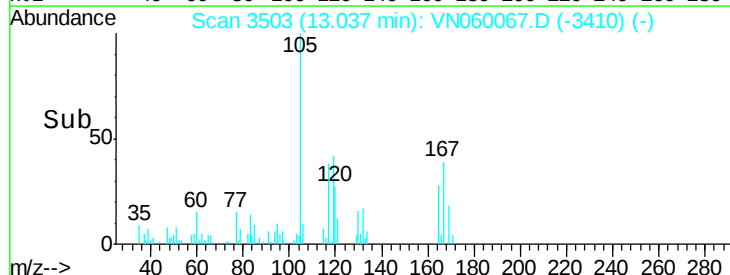
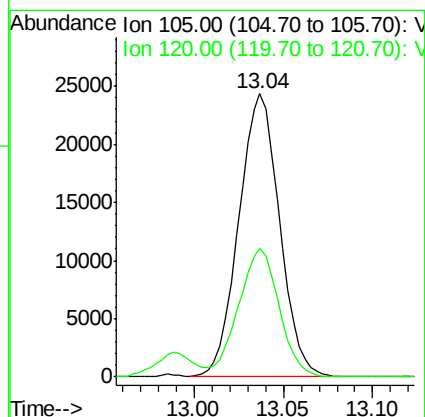
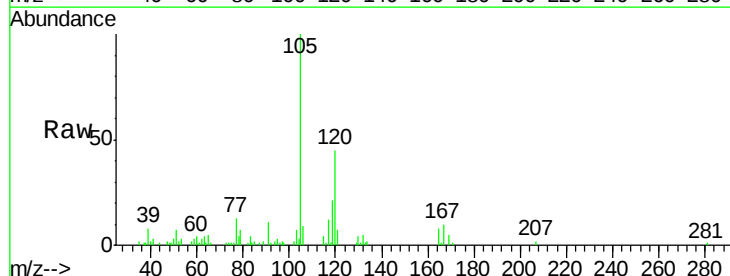
RT: 13.04 min Scan# 3503

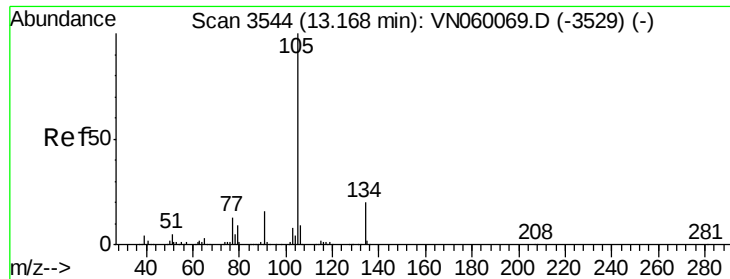
Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion:	105	Resp:	38717
Ion Ratio	Lower	Upper	
105	100		
120	45.1	22.4	67.3





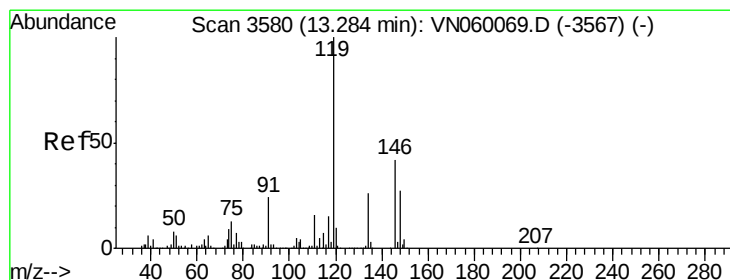
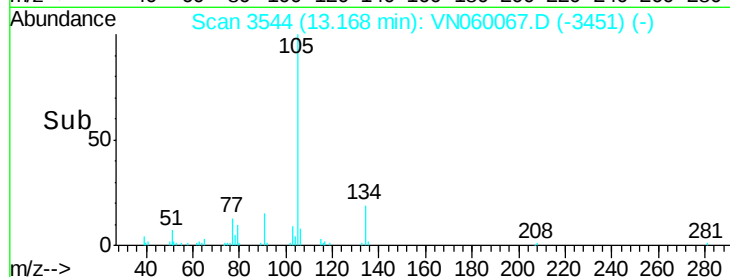
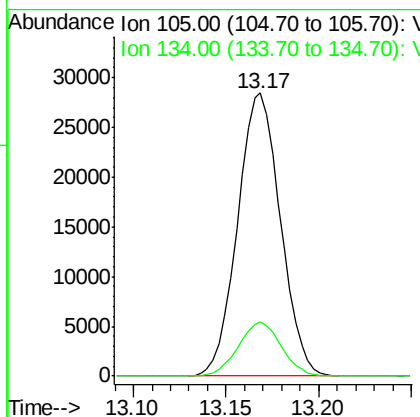
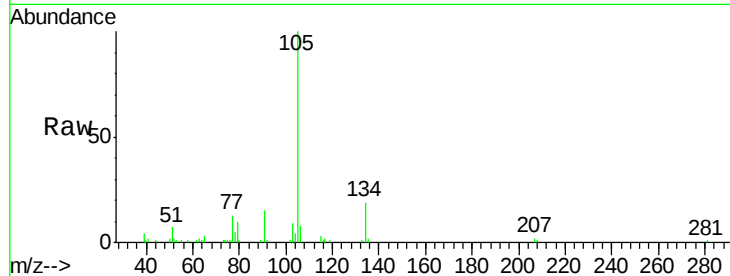
#85
 sec-Butylbenzene
 Concen: 4.745 ug/l
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.9	29.7

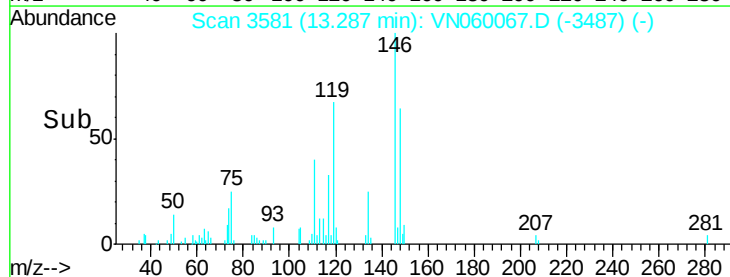
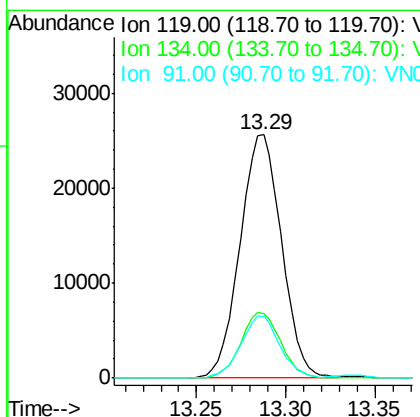
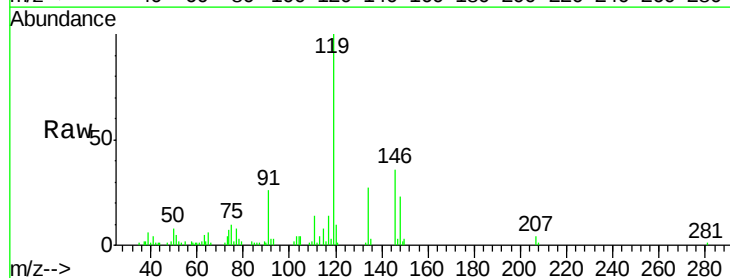
Manual Integrations
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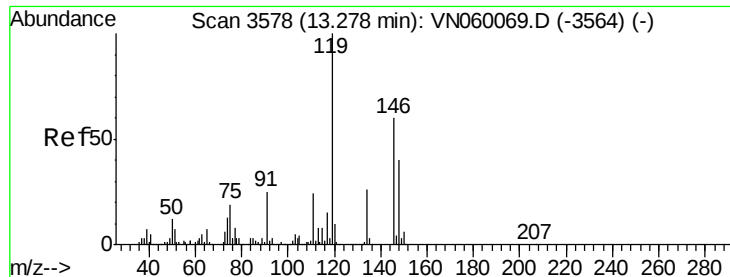
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#86
 p-Isopropyltoluene
 Concen: 4.843 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.3	39.8
91	23.9	11.9	35.9





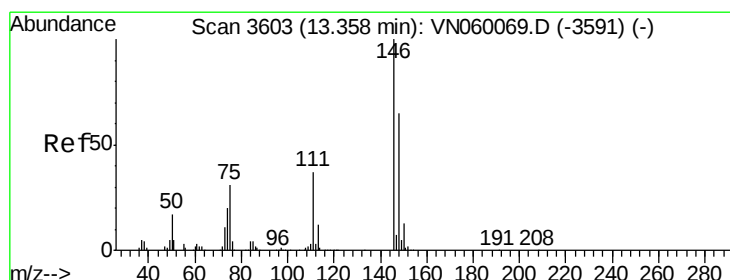
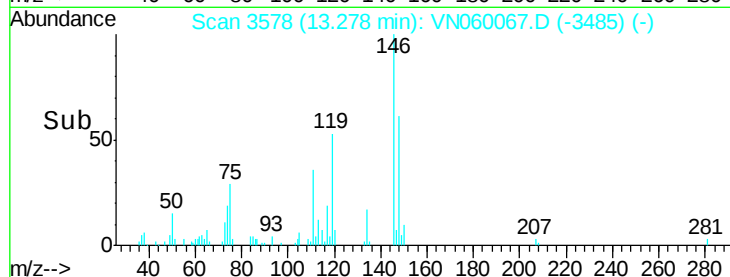
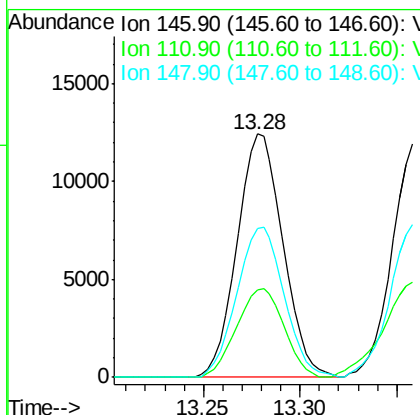
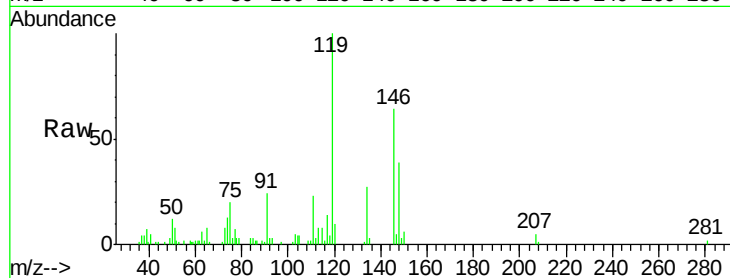
#87
 1,3-Dichlorobenzene
 Concen: 4.799 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	19.8	59.3
148	63.6	32.0	96.2

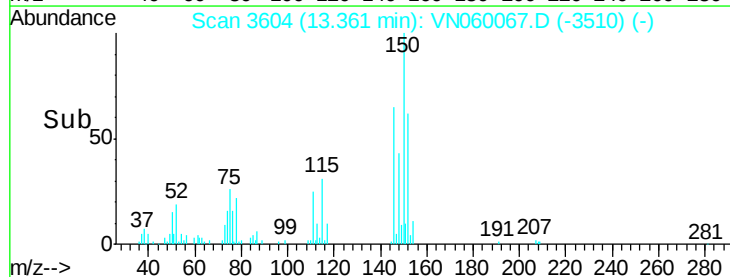
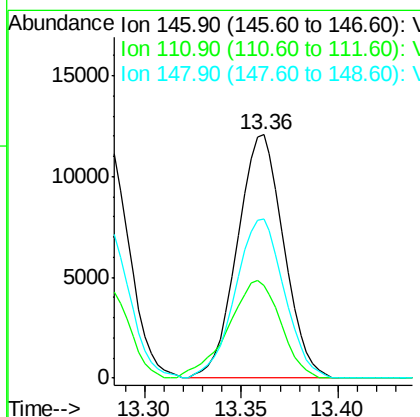
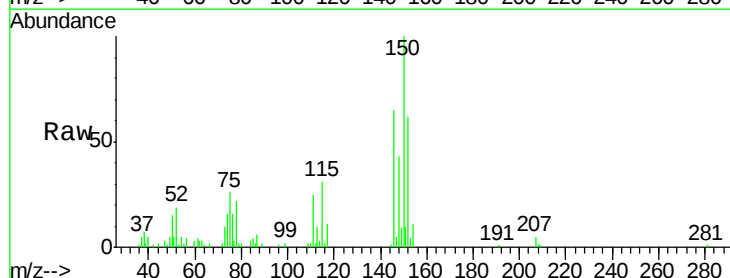
Manual Integrations
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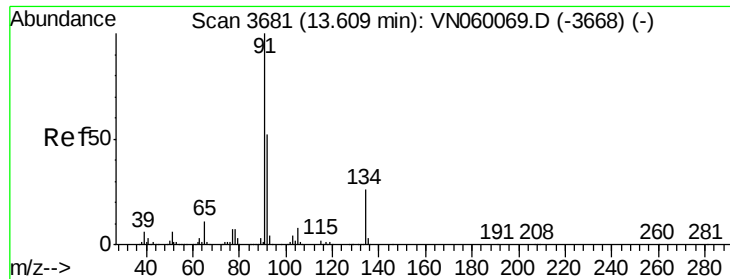
MMDadoda
 2/13/2020 10:37:00 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.773 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.2	18.9	56.5
148	68.9	32.0	96.0





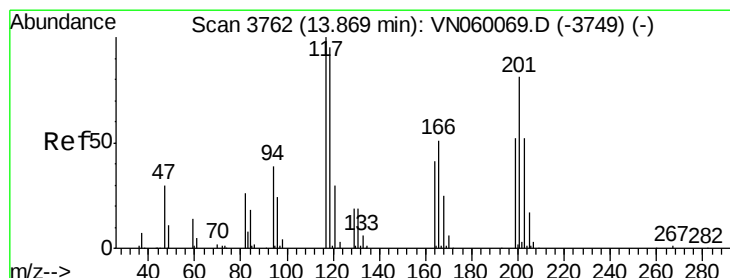
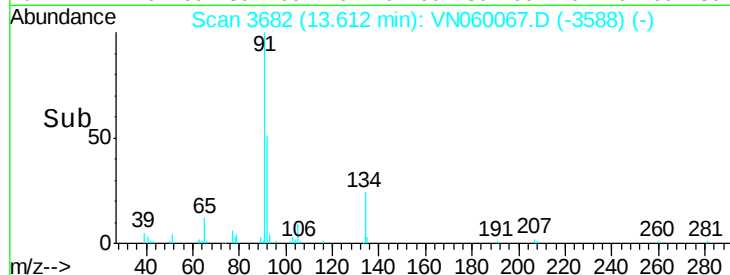
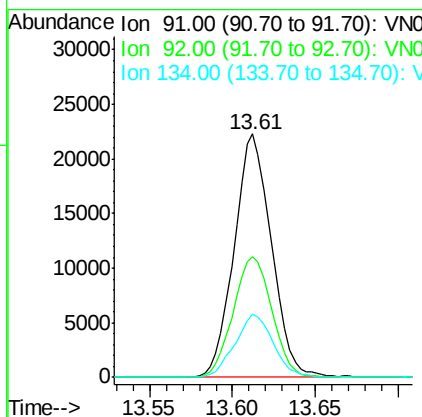
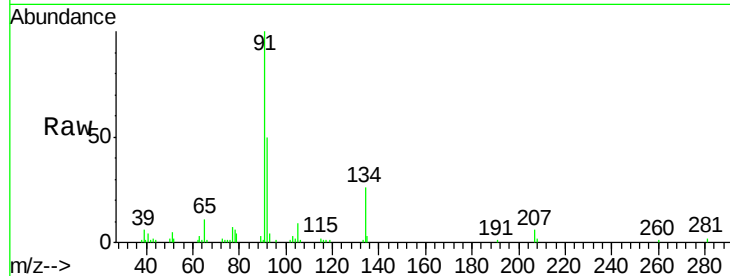
#89
n-Butylbenzene
Concen: 4.662 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.4	26.1	78.2
134	26.4	13.1	39.3

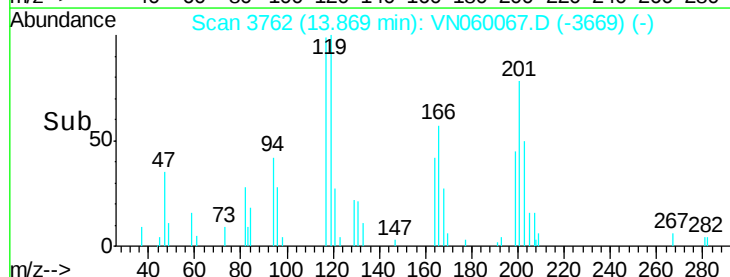
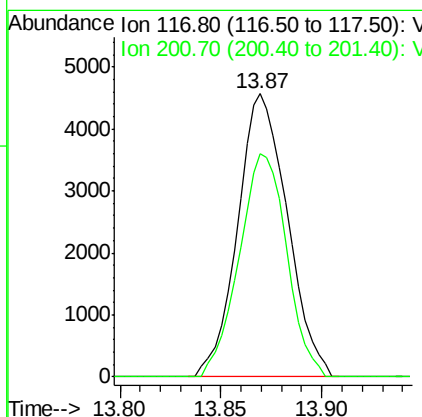
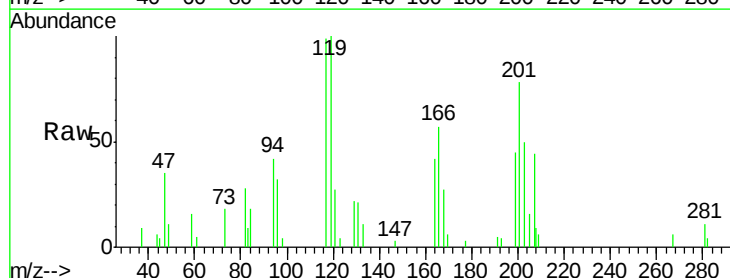
Manual Integrations
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2/13/2020 10:37:00 AM



#90
Hexachloroethane
Concen: 4.912 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
117	100		
201	75.4	41.7	125.1





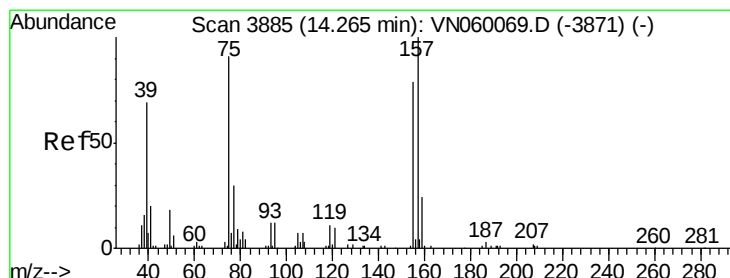
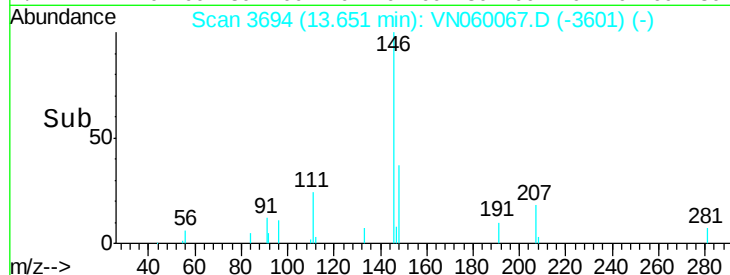
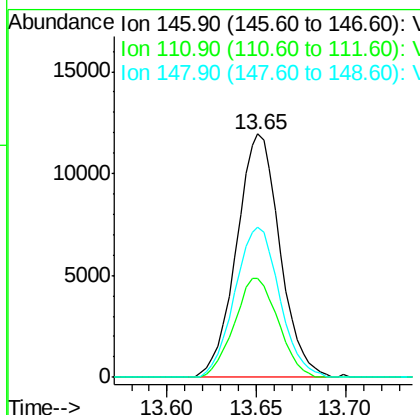
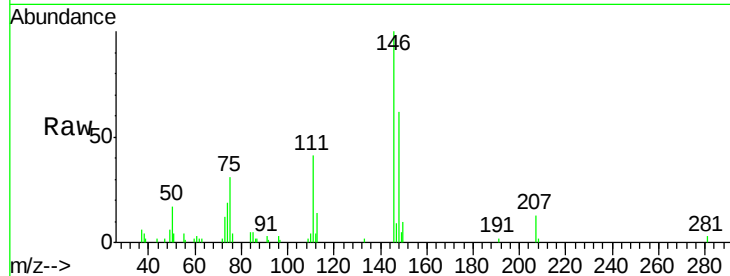
#91
 1,2-Dichlorobenzene
 Concen: 4.781 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.1	20.1	60.2
148	63.4	31.9	95.5

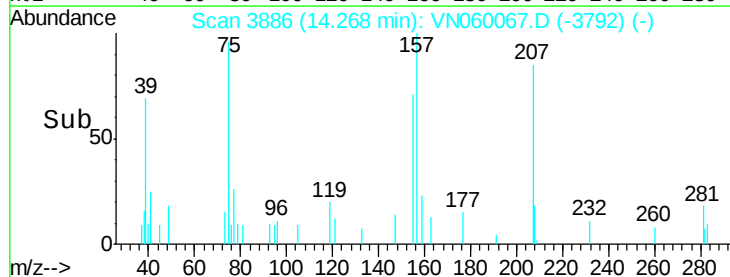
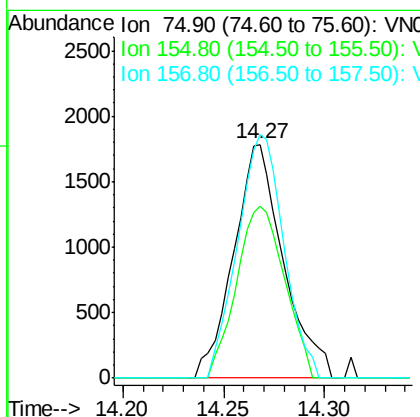
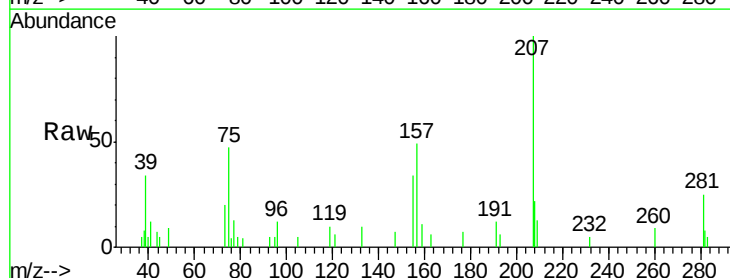
Manual Integrations
 APPROVED

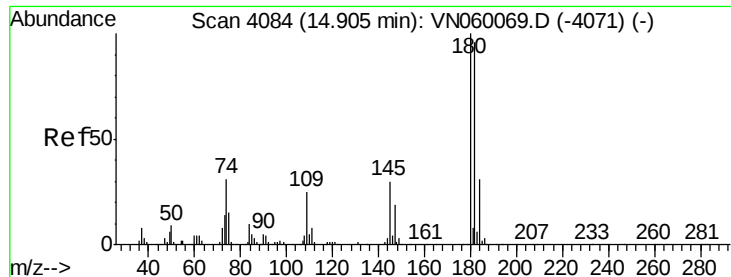
MMDadoda
 2/13/2020 10:37:00 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.576 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN060067.D
 Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.1	43.0	129.0
157	97.1	54.9	164.5





#93

1,2,4-Trichlorobenzene

Concen: 4.544 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Instrument :

MSVOA_N

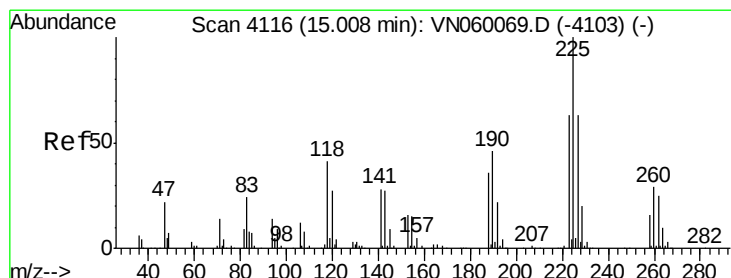
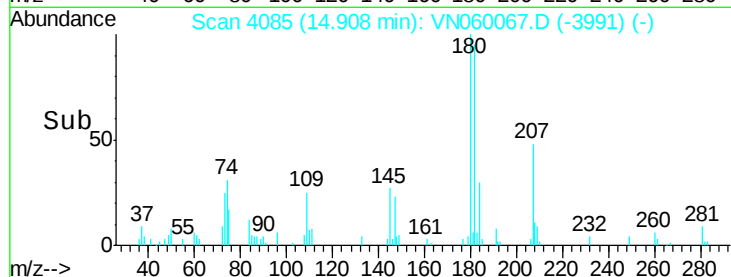
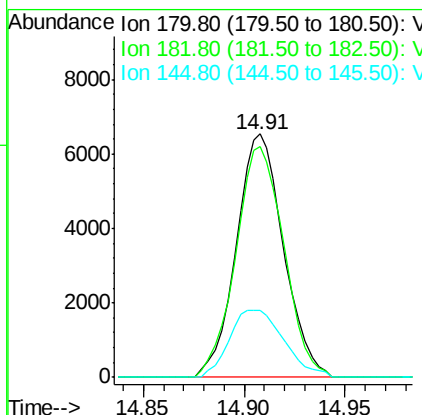
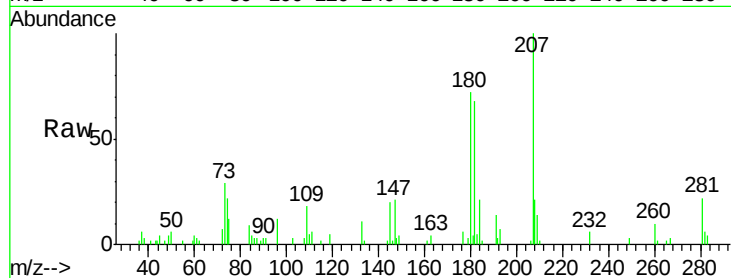
ClientSampleId :

VSTDIC005

Tot Ion:	180	Resp:	10697
Ion Ratio	Lower	Upper	
180	100		
182	96.9	47.9	143.8
145	31.9	15.2	45.5

Manual Integrations
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2/13/2020 10:37:00 AM



#94

Hexachlorobutadiene

Concen: 4.940 ug/l

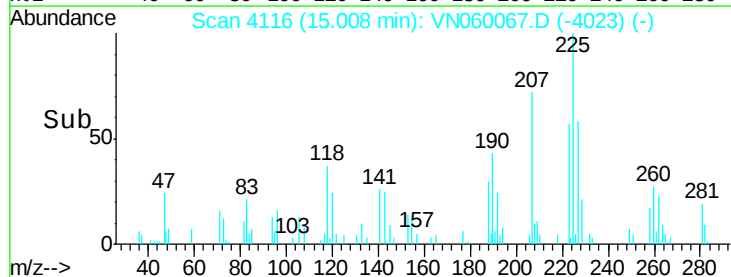
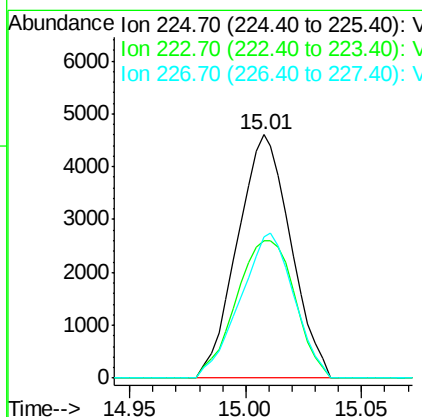
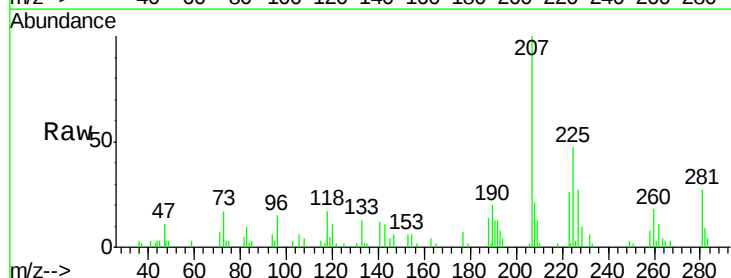
RT: 15.01 min Scan# 4116

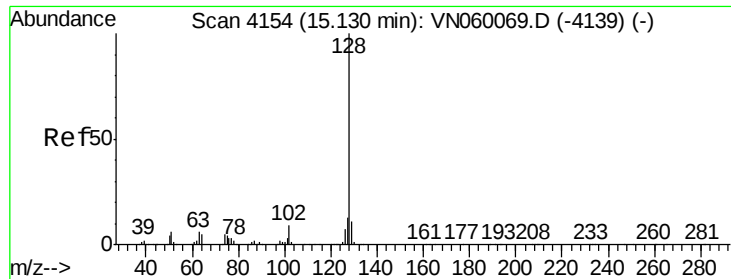
Delta R.T. -0.00 min

Lab File: VN060067.D

Acq: 12 Feb 2020 11:42

Tgt Ion:	225	Resp:	7335
Ion Ratio	Lower	Upper	
225	100		
223	62.4	31.5	94.5
227	60.0	31.8	95.4





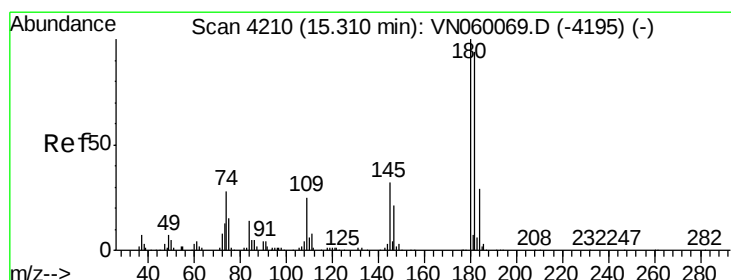
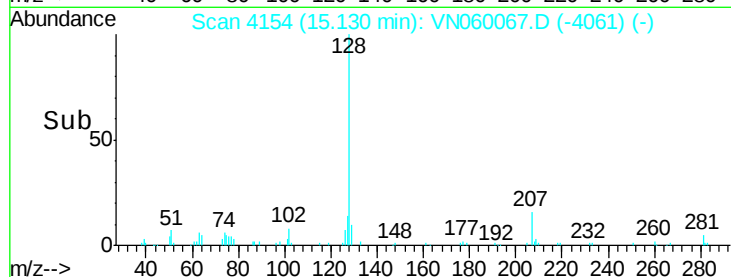
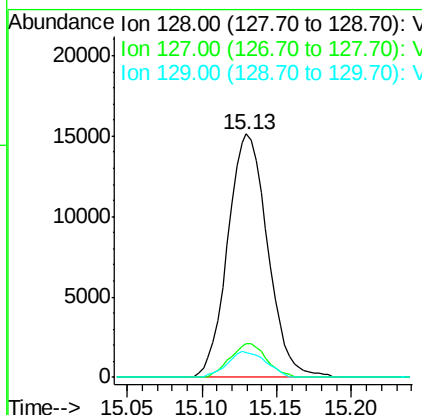
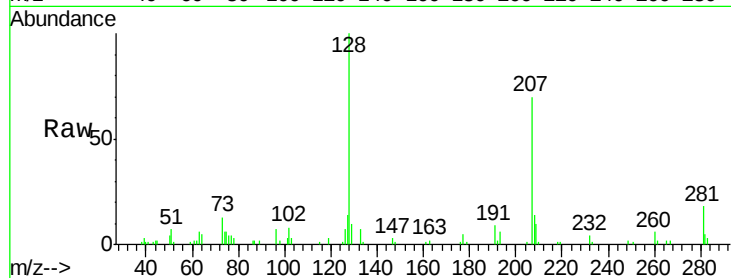
#95
Naphthalene
Concen: 4.519 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.2	8.6	13.0

Manual Integrations
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2/13/2020 10:37:00 AM



#96
1,2,3-Trichlorobenzene
Concen: 4.567 ug/l
RT: 15.31 min Scan# 4210
Delta R.T. -0.00 min
Lab File: VN060067.D
Acq: 12 Feb 2020 11:42

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.1	47.5	142.5
145	33.0	16.1	48.3

