

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD066987.D
 Acq On : 01 Oct 2020 12:20
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/2/2020 3:13:19 PM

Quant Time: Oct 01 15:13:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:02:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	458188	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	718203	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	651054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	317414	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	91401	20.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.42%	
35) Dibromofluoromethane	7.91	113	99780	21.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	42.44%	
50) Toluene-d8	10.34	98	356408	20.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.60%	
62) 4-Bromofluorobenzene	12.63	95	119952	20.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.24%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	96446	23.182	ug/l	91
3) Chloromethane	2.21	50	80129	21.960	ug/l	99
4) Vinyl Chloride	2.35	62	75233	20.562	ug/l	98
5) Bromomethane	2.76	94	55543	20.828	ug/l	99
6) Chloroethane	2.92	64	47224	21.194	ug/l	91
7) Trichlorofluoromethane	3.27	101	166723	20.510	ug/l	99
8) Diethyl Ether	3.71	74	42152	20.911	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.10	101	96139	20.924	ug/l	100
10) Methyl Iodide	4.30	142	88037	19.720	ug/l	100
11) Tert butyl alcohol	5.21	59	38047	101.276	ug/l #	86
12) 1,1-Dichloroethene	4.07	96	89873	20.808	ug/l	95
13) Acrolein	3.92	56	31291	105.888	ug/l	98
14) Allyl chloride	4.72	41	115699	20.620	ug/l	99
15) Acrylonitrile	5.42	53	77914	105.020	ug/l	94
16) Acetone	4.16	43	67000	99.453	ug/l	100
17) Carbon Disulfide	4.41	76	278452	21.007	ug/l	100
18) Methyl Acetate	4.72	43	35055	20.703	ug/l	97
19) Methyl tert-butyl Ether	5.48	73	161884	20.531	ug/l	99
20) Methylene Chloride	4.97	84	121209	19.737	ug/l	98
21) trans-1,2-Dichloroethene	5.48	96	103193	20.994	ug/l	97
22) Diisopropyl ether	6.36	45	218291	21.310	ug/l	96
23) Vinyl Acetate	6.31	43	598433	103.093	ug/l	100
24) 1,1-Dichloroethane	6.27	63	167009	21.125	ug/l	98
25) 2-Butanone	7.21	43	98584	103.215	ug/l	99
26) 2,2-Dichloropropane	7.21	77	156681	20.656	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	108184	20.608	ug/l	96
28) Bromochloromethane	7.54	49	62330	20.416	ug/l	98
29) Tetrahydrofuran	7.56	42	55809	101.620	ug/l	99
30) Chloroform	7.71	83	180693	21.070	ug/l	95
31) Cyclohexane	7.98	56	136993	20.669	ug/l	94
32) 1,1,1-Trichloroethane	7.90	97	168807	21.239	ug/l	97
36) 1,1-Dichloropropene	8.11	75	136974	20.461	ug/l	99
37) Ethyl Acetate	7.29	43	47467	20.468	ug/l	98
38) Carbon Tetrachloride	8.10	117	152829	21.099	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD066987.D
 Acq On : 01 Oct 2020 12:20
 Operator : VA/SY
 Sample : VSTDIC020
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 10/2/2020 3:13:19 PM

Quant Time: Oct 01 15:13:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:02:24 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.35	83	140572	19.861	ug/l	96
40) Benzene	8.35	78	389669	20.956	ug/l	99
41) Methacrylonitrile	7.53	41	26750	21.350	ug/l #	100
42) 1,2-Dichloroethane	8.43	62	108148	20.814	ug/l	97
43) Isopropyl Acetate	8.45	43	85698	20.059	ug/l	98
44) Trichloroethene	9.11	130	116621	21.004	ug/l	99
45) 1,2-Dichloropropane	9.38	63	91312	20.900	ug/l	92
46) Dibromomethane	9.47	93	52245	20.806	ug/l	97
47) Bromodichloromethane	9.66	83	135474	20.755	ug/l	99
48) Methyl methacrylate	9.46	41	41449	18.937	ug/l	87
49) 1,4-Dioxane	9.47	88	11028	420.799	ug/l	97
51) 4-Methyl-2-Pentanone	10.23	43	221791	104.223	ug/l	98
52) Toluene	10.40	92	251558	21.002	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	121075	20.754	ug/l	99
54) cis-1,3-Dichloropropene	10.09	75	151316	21.242	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	74136	21.236	ug/l	97
56) Ethyl methacrylate	10.66	69	73864	20.493	ug/l	96
57) 1,3-Dichloropropane	10.94	76	116993	20.666	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	210861	105.108	ug/l	99
59) 2-Hexanone	10.98	43	150068	105.656	ug/l	100
60) Dibromochloromethane	11.14	129	96775	20.798	ug/l	97
61) 1,2-Dibromoethane	11.25	107	69681	20.776	ug/l	93
64) Tetrachloroethene	10.87	164	100483	21.230	ug/l	90
65) Chlorobenzene	11.67	112	276182	21.329	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.74	131	103978	21.110	ug/l	100
67) Ethyl Benzene	11.74	91	463565	20.894	ug/l	97
68) m/p-Xylenes	11.85	106	370666	42.870	ug/l	99
69) o-Xylene	12.18	106	164561	21.283	ug/l	98
70) Styrene	12.20	104	286810	21.602	ug/l	99
71) Bromoform	12.36	173	52487	20.529	ug/l #	100
73) Isopropylbenzene	12.48	105	448119	20.792	ug/l	100
74) N-amyl acetate	12.29	43	80441	20.762	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.73	83	75764	20.864	ug/l	98
76) 1,2,3-Trichloropropane	12.78	75	60308m	22.291	ug/l	
77) Bromobenzene	12.76	156	108807	20.907	ug/l	98
78) n-propylbenzene	12.82	91	537406	21.098	ug/l	99
79) 2-Chlorotoluene	12.91	91	309962	21.269	ug/l	100
80) 1,3,5-Trimethylbenzene	12.96	105	384355	21.107	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	22105	19.933	ug/l	99
82) 4-Chlorotoluene	13.01	91	330195	21.295	ug/l	99
83) tert-Butylbenzene	13.23	119	313225	20.426	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	386701	21.279	ug/l	98
85) sec-Butylbenzene	13.40	105	450111	20.844	ug/l	100
86) p-Isopropyltoluene	13.52	119	420263	20.992	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	214077	21.119	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	210093	20.728	ug/l	98
89) n-Butylbenzene	13.85	91	377667	20.641	ug/l	99
90) Hexachloroethane	14.11	117	70015	19.965	ug/l	99
91) 1,2-Dichlorobenzene	13.89	146	184818	20.876	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	11238	19.198	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
Data File : VD066987.D
Acq On : 01 Oct 2020 12:20
Operator : VA/SY
Sample : VSTDICC020
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC020

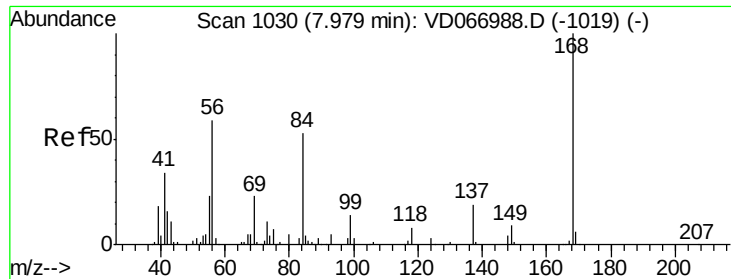
Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM

Quant Time: Oct 01 15:13:38 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:02:24 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	116801	20.397	ug/l	96
94) Hexachlorobutadiene	15.28	225	68832	19.572	ug/l	96
95) Naphthalene	15.41	128	185625	19.434	ug/l	99
96) 1,2,3-Trichlorobenzene	15.60	180	101143	20.347	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 458188

Ion Ratio Lower Upper

168 100

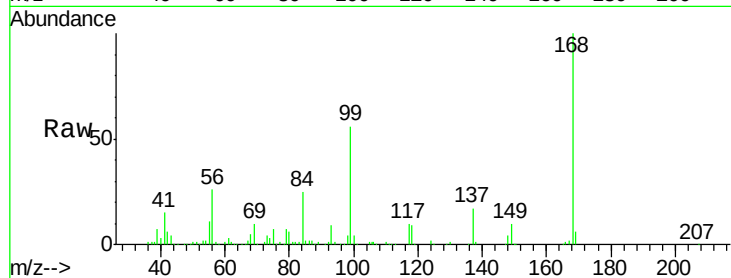
99 55.6 44.1 66.1

Manual Integrations

APPROVED

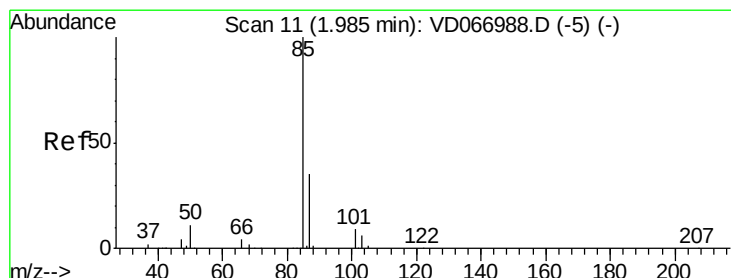
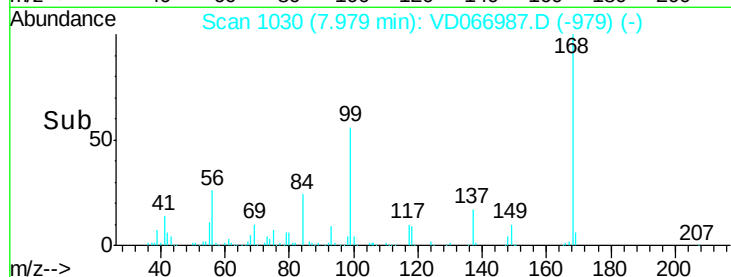
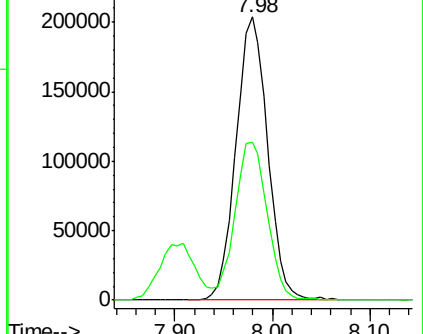
MMDadoda

10/2/2020 3:13:19 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 23.182 ug/l

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066987.D

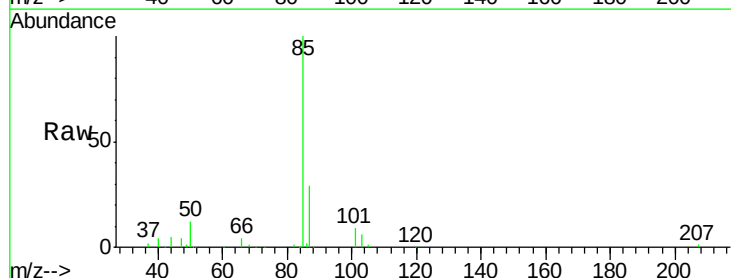
Acq: 01 Oct 2020 12:20

Tgt Ion: 85 Resp: 96446

Ion Ratio Lower Upper

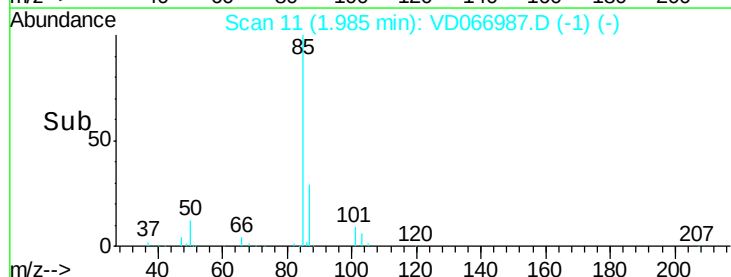
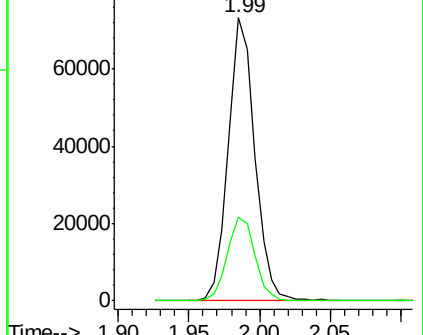
85 100

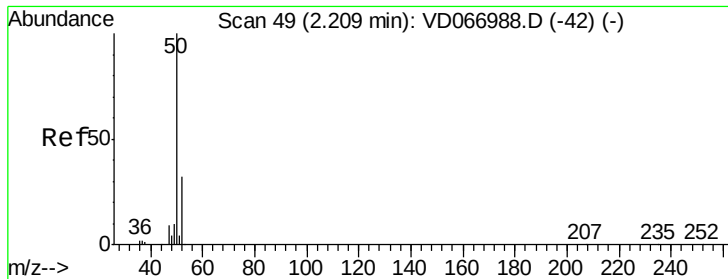
87 29.4 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.960 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 80129

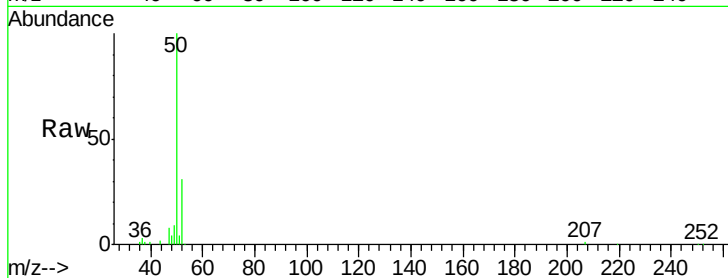
Ion Ratio Lower Upper

50 100

52 31.2 25.3 37.9

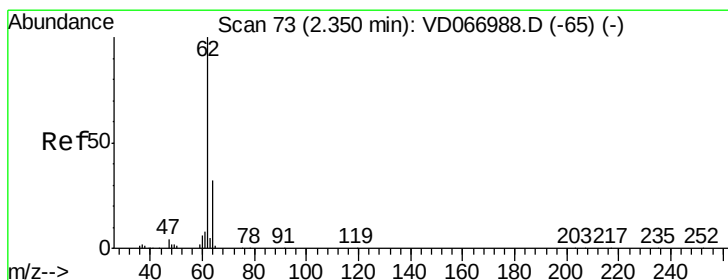
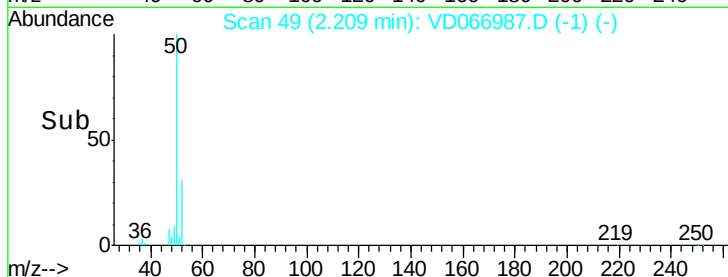
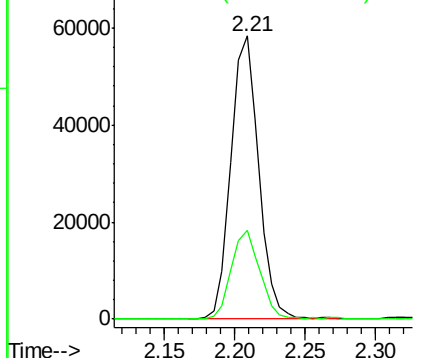
Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 20.562 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD066987.D

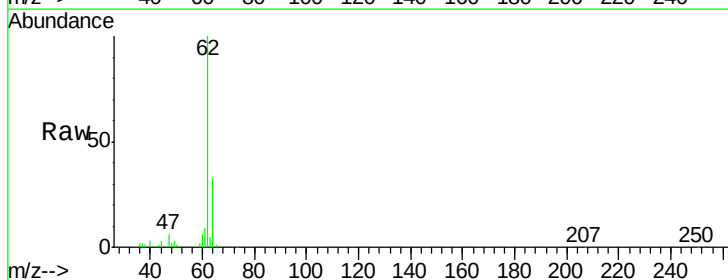
Acq: 01 Oct 2020 12:20

Tgt Ion: 62 Resp: 75233

Ion Ratio Lower Upper

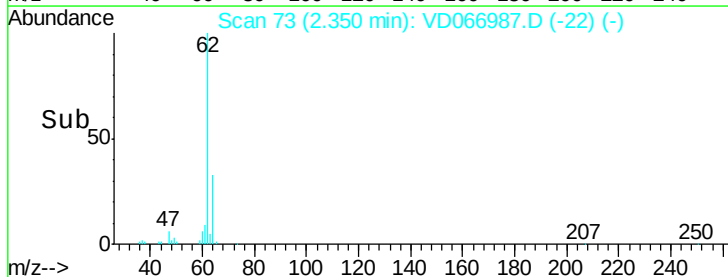
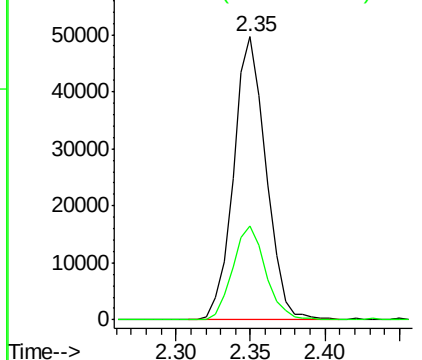
62 100

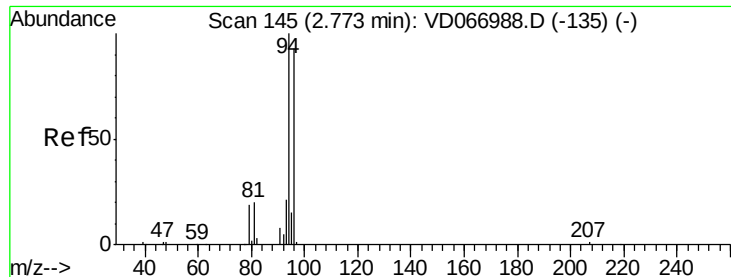
64 33.4 25.8 38.8



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.828 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 55543

Ion Ratio Lower Upper

94 100

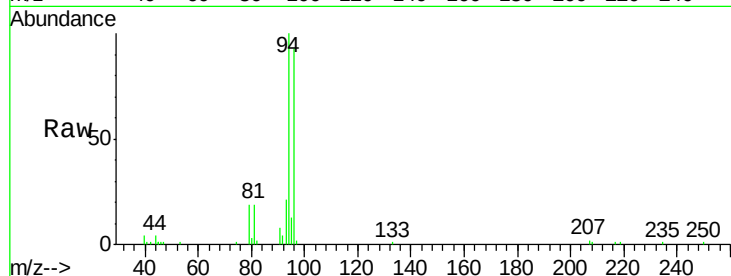
96 92.2 74.6 112.0

Manual Integrations

APPROVED

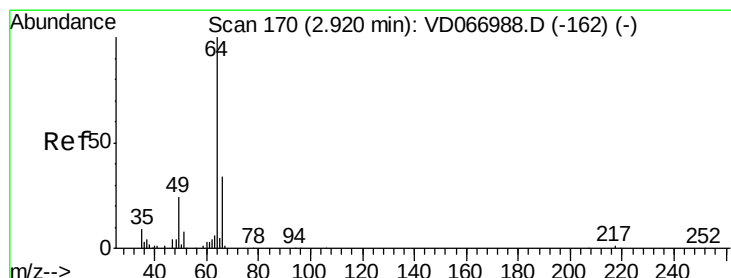
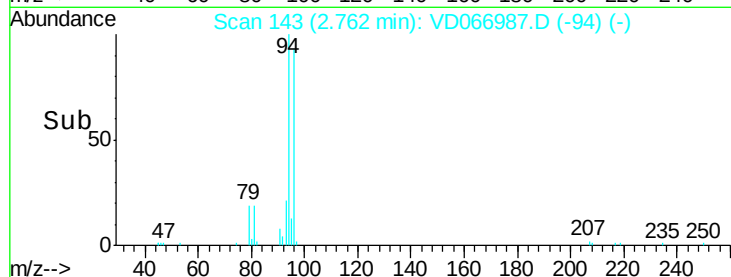
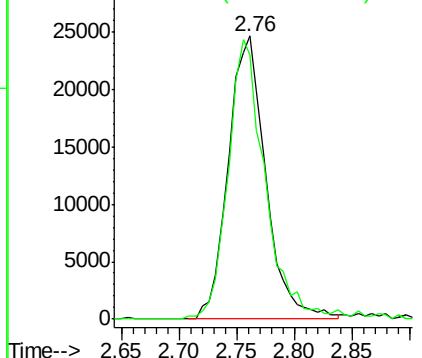
MMDadoda

10/2/2020 3:13:19 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.194 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD066987.D

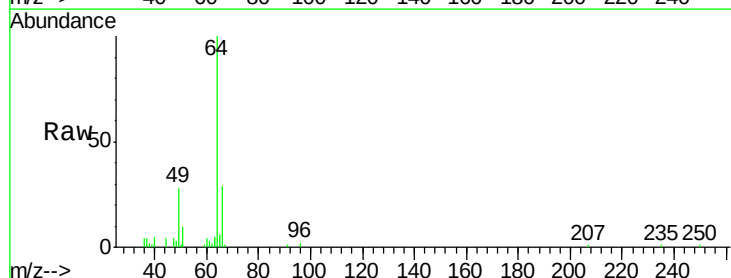
Acq: 01 Oct 2020 12:20

Tgt Ion: 64 Resp: 47224

Ion Ratio Lower Upper

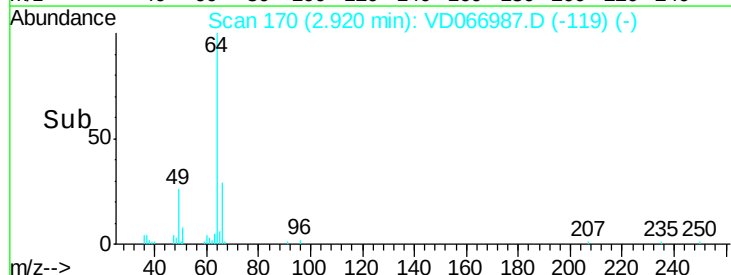
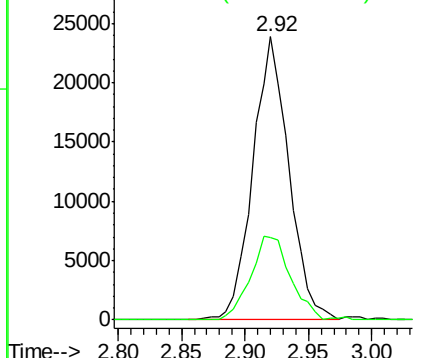
64 100

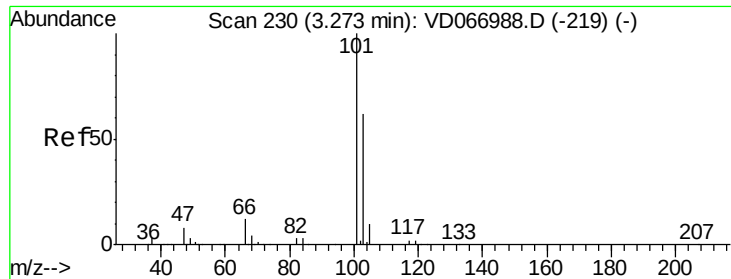
66 28.9 27.0 40.6



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

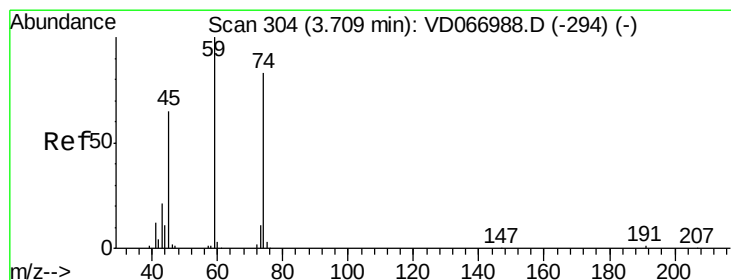
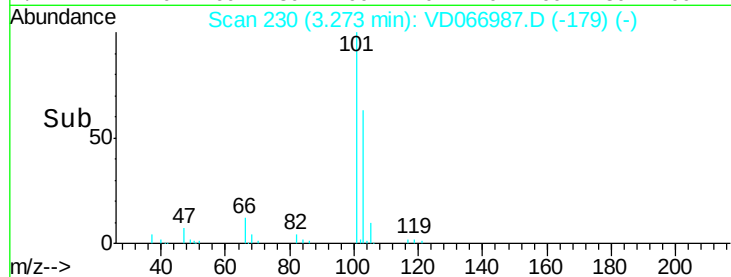
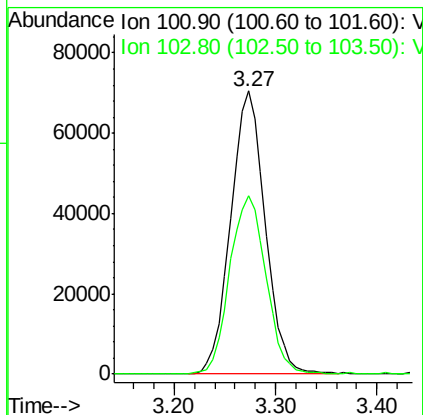
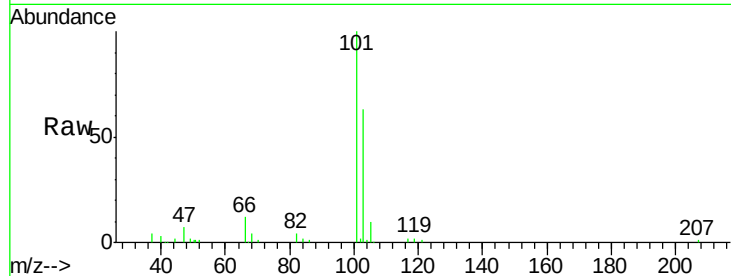
Trichlorofluoromethane
 Concen: 20.510 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.9	49.8	74.8

Manual Integrations
 APPROVED

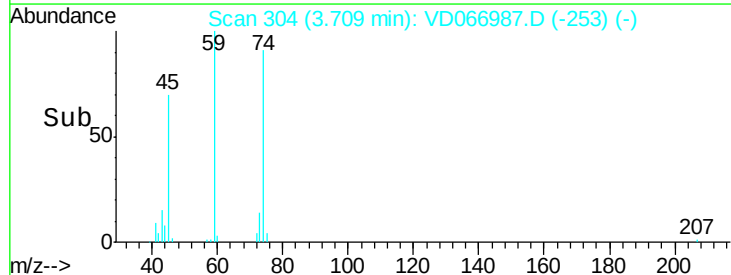
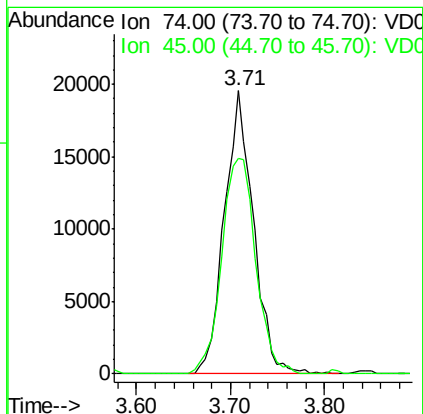
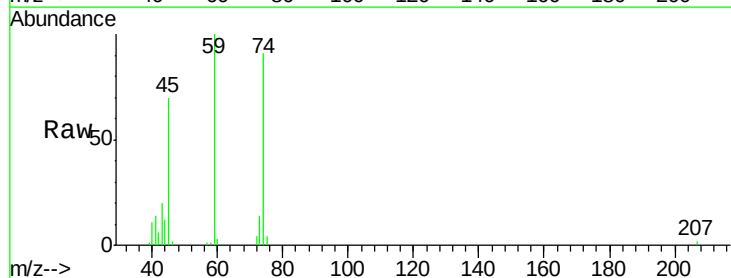
MMDadoda
 10/2/2020 3:13:19 PM

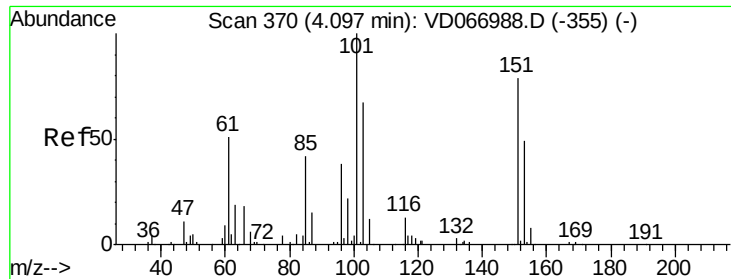


#8

Diethyl Ether
 Concen: 20.911 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
74	100		
45	88.8	43.1	129.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.924 ug/l

RT: 4.10 min Scan# 370

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

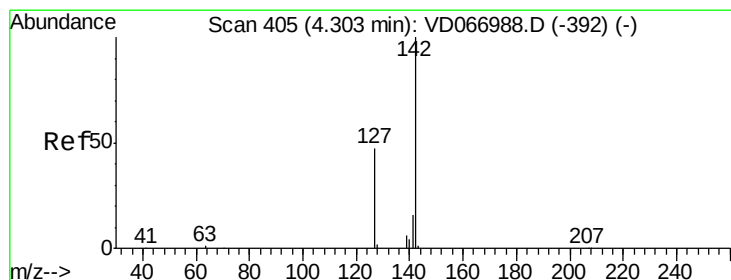
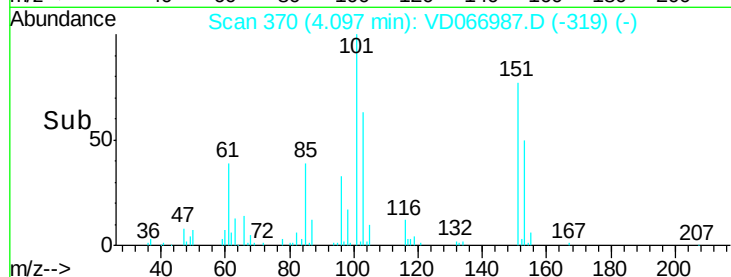
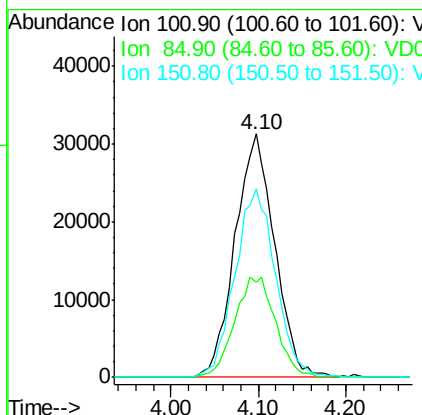
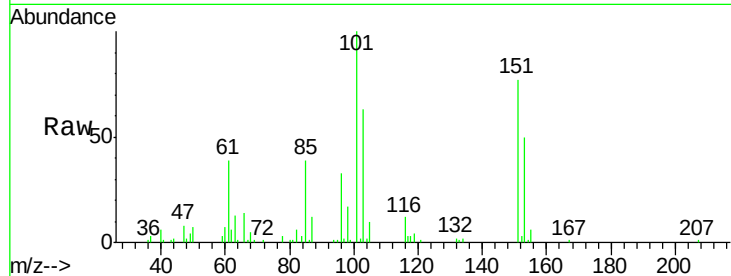
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	96139
Ion Ratio	Lower	Upper	
101	100		
85	42.5	33.8	50.8
151	79.4	63.8	95.8

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#10

Methyl Iodide

Concen: 19.720 ug/l

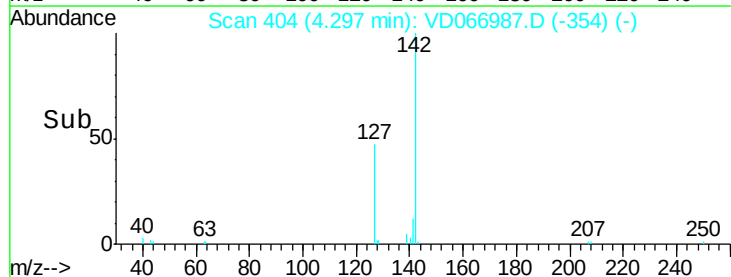
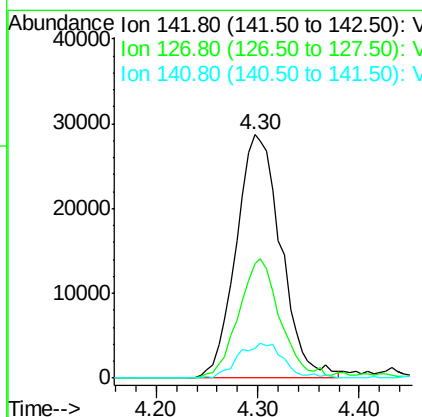
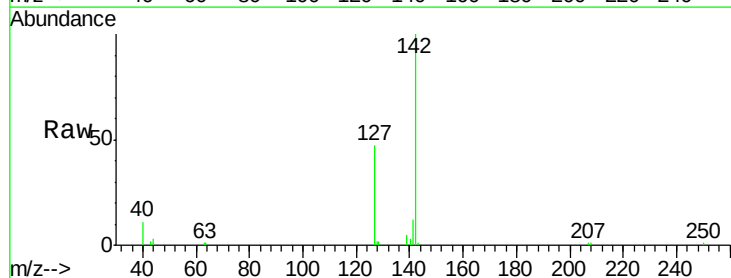
RT: 4.30 min Scan# 404

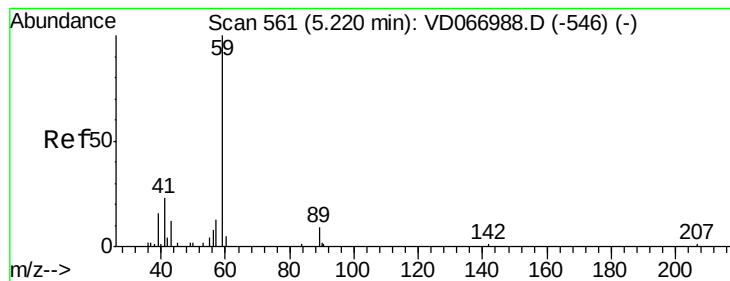
Delta R.T. -0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	142	Resp:	88037
Ion Ratio	Lower	Upper	
142	100		
127	45.5	36.3	54.5
141	14.6	12.0	18.0





#11

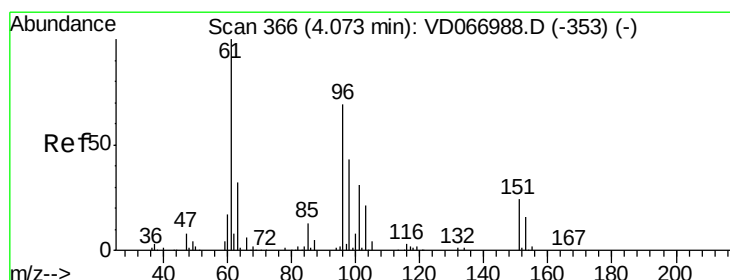
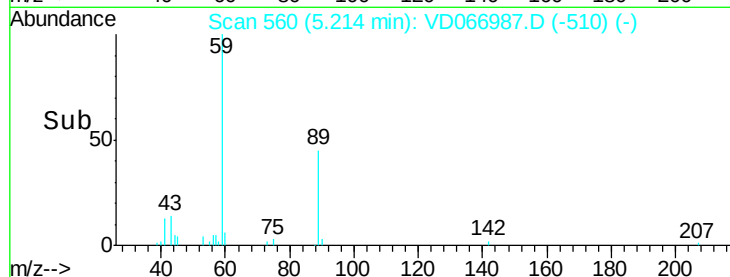
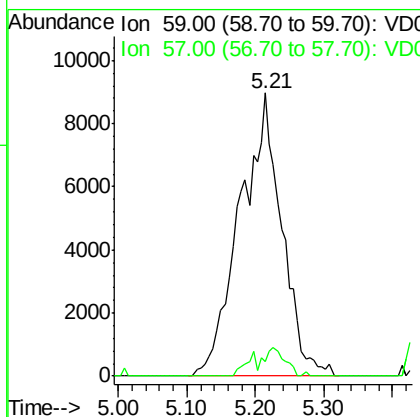
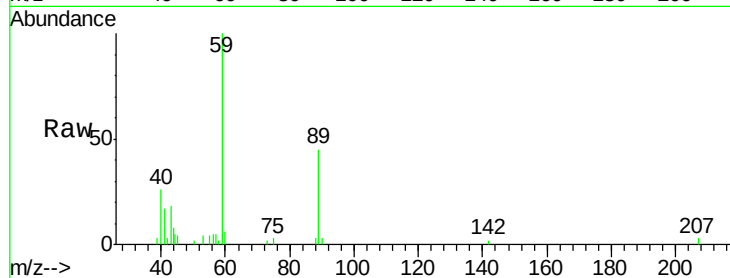
Tert butyl alcohol
 Concen: 101.276 ug/l
 RT: 5.21 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	59	57	Ratio	100	4.9	Resp:	38047	Lower	8.2	Upper	12.4#
Ion	59	57	Ratio	100	4.9	Resp:	38047	Lower	8.2	Upper	12.4#

Manual Integrations
 APPROVED

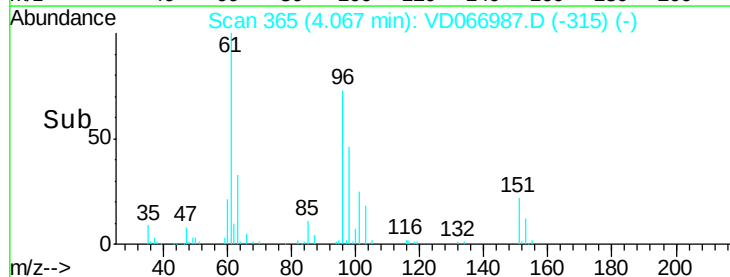
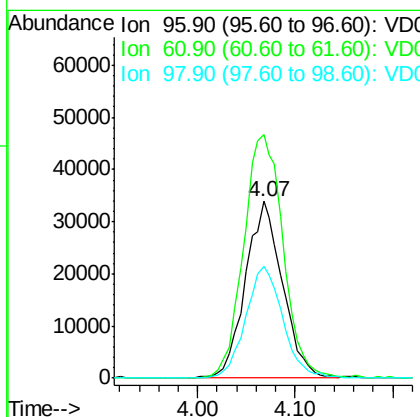
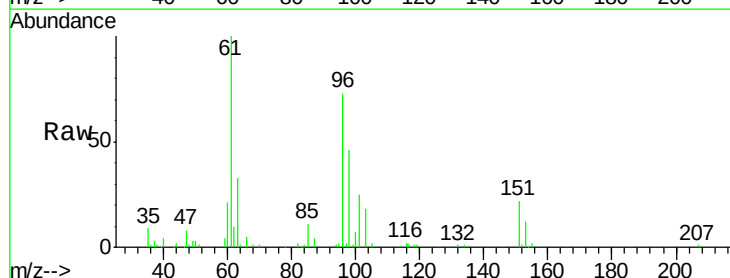
MMDadoda
 10/2/2020 3:13:19 PM

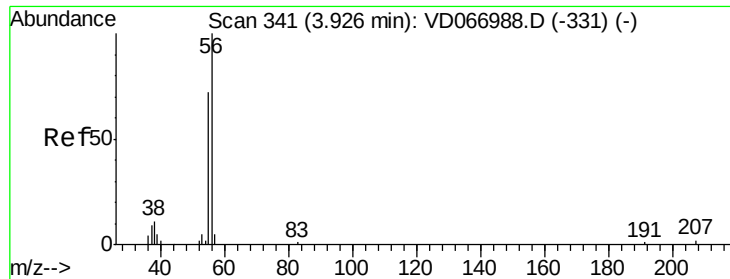


#12

1,1-Dichloroethene
 Concen: 20.808 ug/l
 RT: 4.07 min Scan# 365
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	96	61	98	Ratio	100	137.9	63.2	Resp:	89873	Lower	116.4	49.9	Upper	174.6	74.9
Ion	96	61	98	Ratio	100	137.9	63.2	Resp:	89873	Lower	116.4	49.9	Upper	174.6	74.9





#13

Acrolein

Concen: 105.888 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 31291

Ion Ratio Lower Upper

56 100

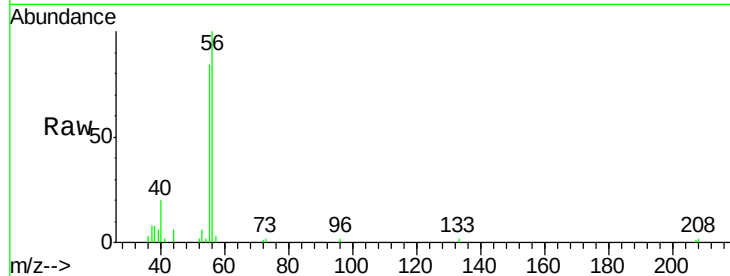
55 72.8 56.9 85.3

Manual Integrations

APPROVED

MMDadoda

10/2/2020 3:13:19 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

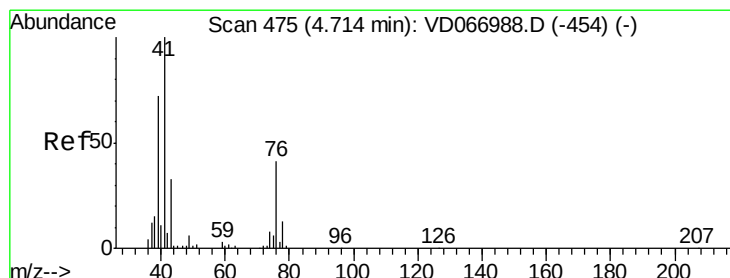
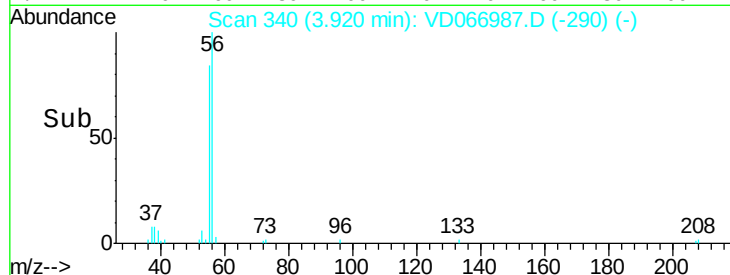
3.92

10000

5000

0

Time--> 3.80 3.90 4.00



#14

Allyl chloride

Concen: 20.620 ug/l

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

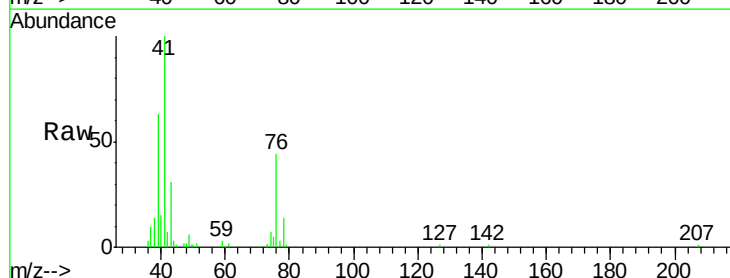
Tgt Ion: 41 Resp: 115699

Ion Ratio Lower Upper

41 100

39 69.4 56.2 84.2

76 41.5 34.2 51.2



Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC

4.72

50000

40000

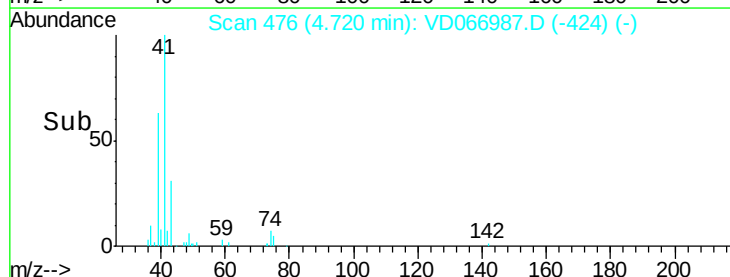
30000

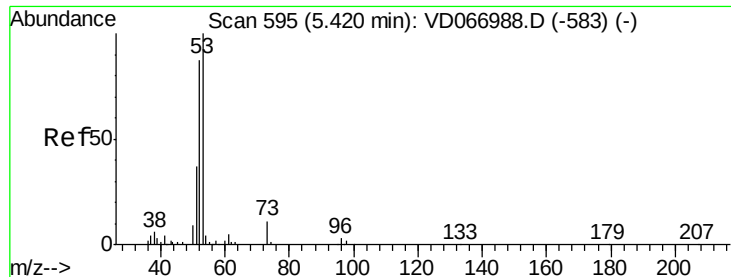
20000

10000

0

Time--> 4.50 4.60 4.70 4.80





#15

Acrylonitrile

Concen: 105.020 ug/l

RT: 5.42 min Scan# 595

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

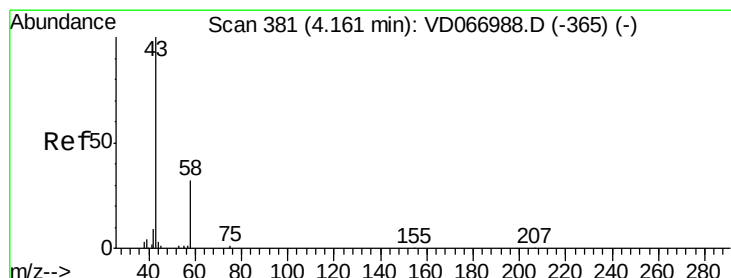
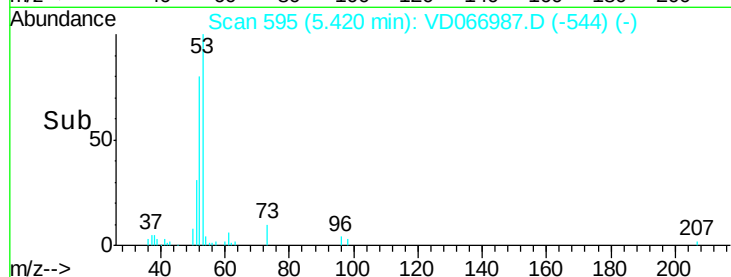
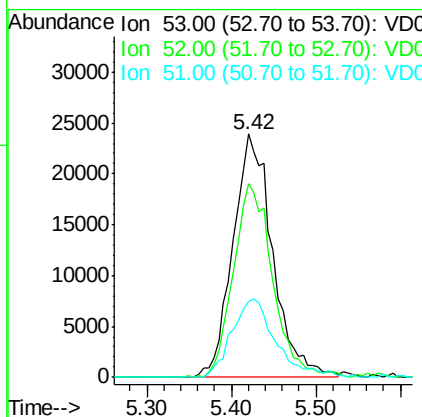
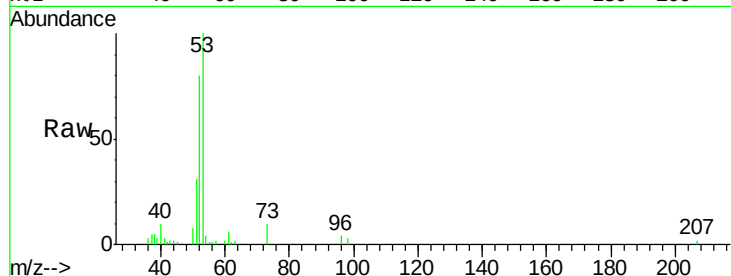
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	77914
Ion	Ratio	Lower	Upper
53	100		
52	77.9	67.3	100.9
51	35.6	30.2	45.2

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#16

Acetone

Concen: 99.453 ug/l

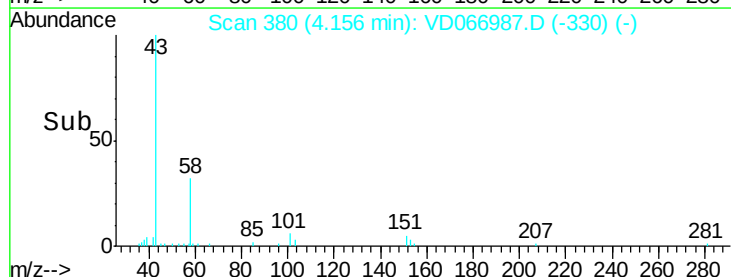
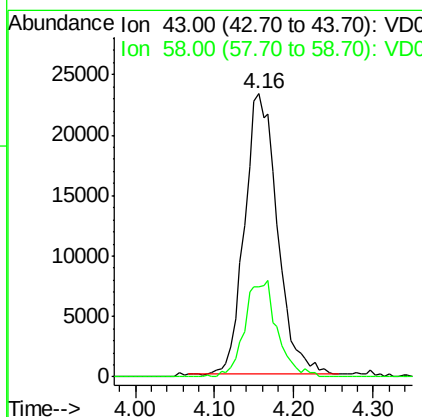
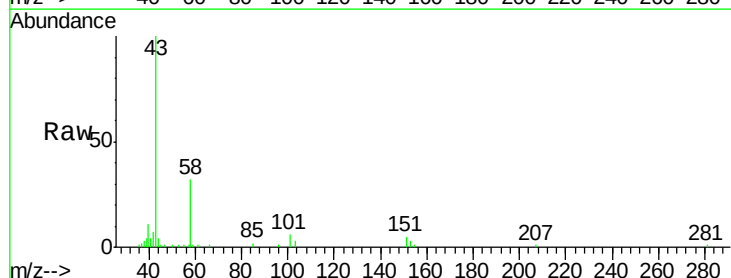
RT: 4.16 min Scan# 380

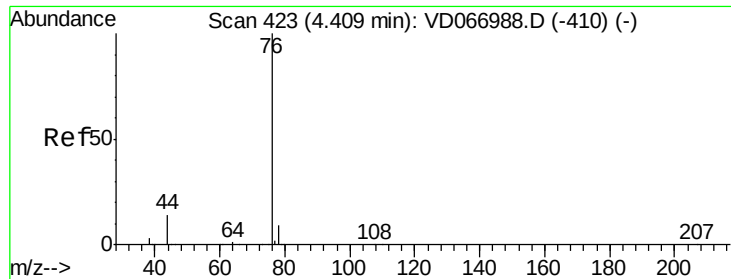
Delta R.T. -0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	43	Resp:	67000
Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.9	38.9





#17

Carbon Disulfide

Concen: 21.007 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 278452

Ion Ratio Lower Upper

76 100

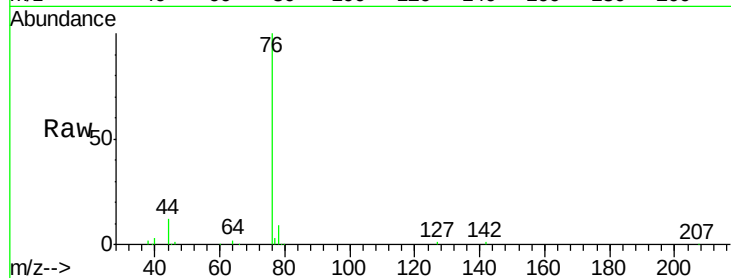
78 9.3 7.5 11.3

Manual Integrations

APPROVED

MMDadoda

10/2/2020 3:13:19 PM



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

4.41

100000

80000

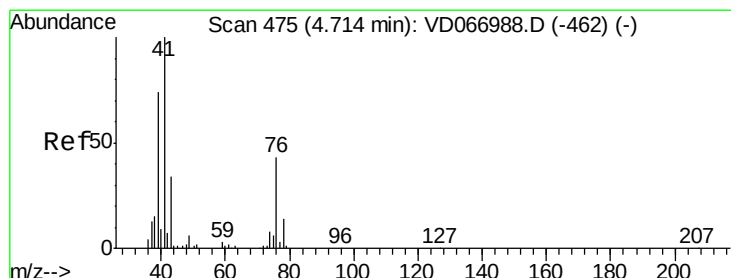
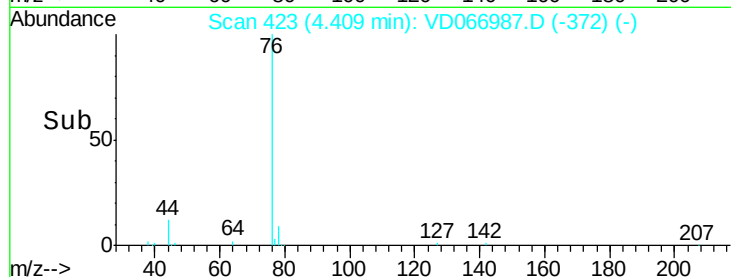
60000

40000

20000

0

Time-->



#18

Methyl Acetate

Concen: 20.703 ug/l

RT: 4.72 min Scan# 476

Delta R.T. 0.01 min

Lab File: VD066987.D

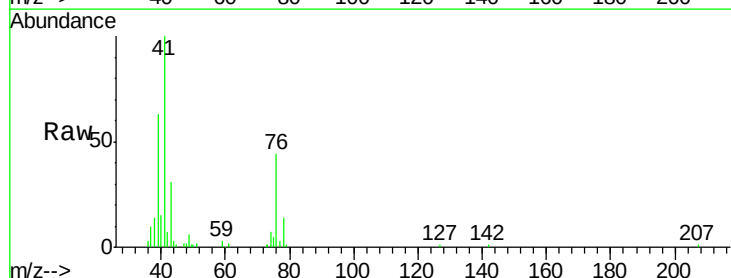
Acq: 01 Oct 2020 12:20

Tgt Ion: 43 Resp: 35055

Ion Ratio Lower Upper

43 100

74 28.6 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

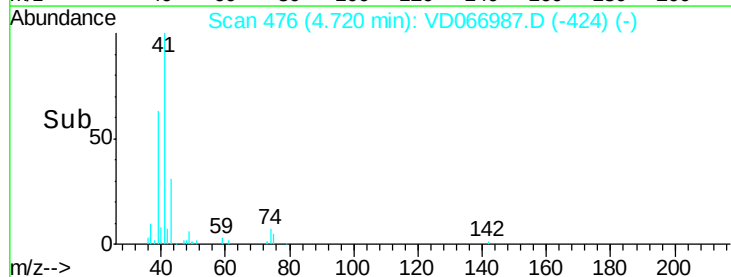
4.72

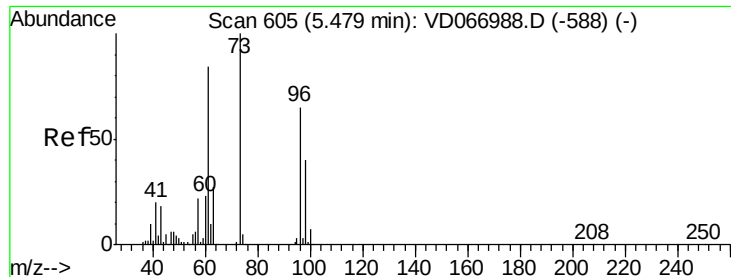
10000

5000

0

Time-->





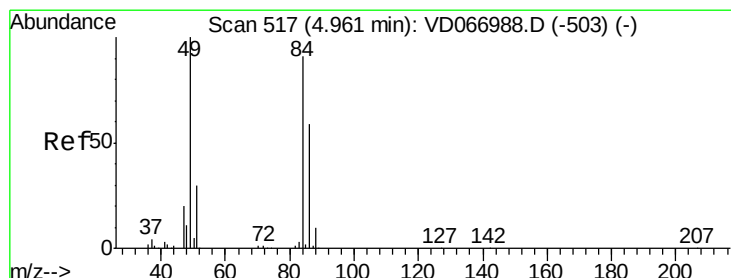
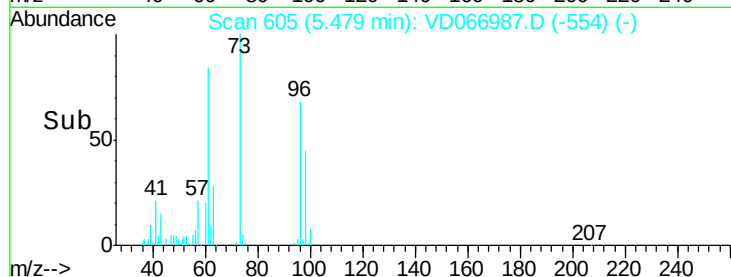
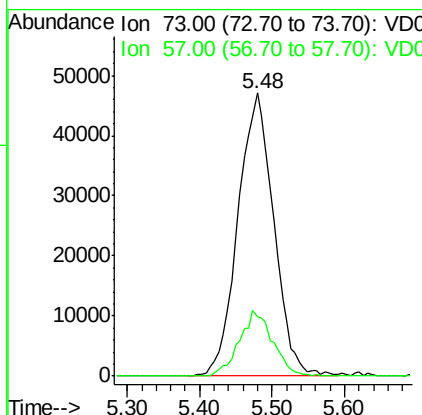
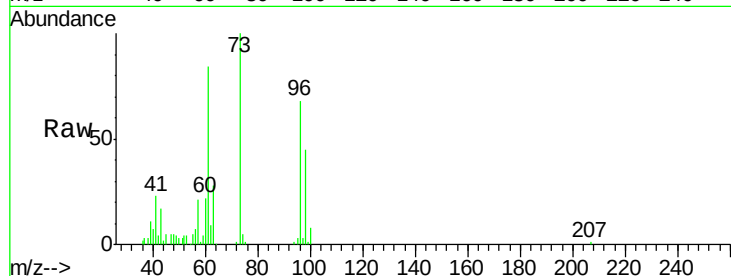
#19
Methyl tert-butyl Ether
Concen: 20.531 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampled :
VSTDIC020

Tot Ion: 73 Resp: 161884
Ion Ratio Lower Upper
73 100
57 21.1 17.4 26.0

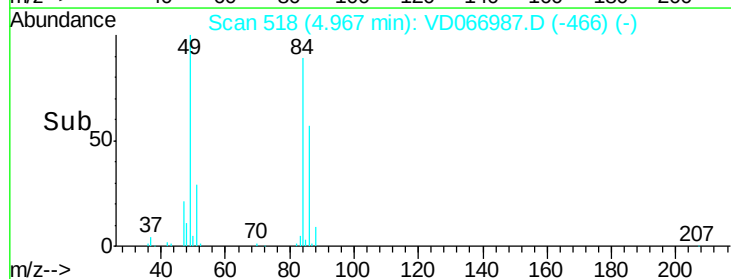
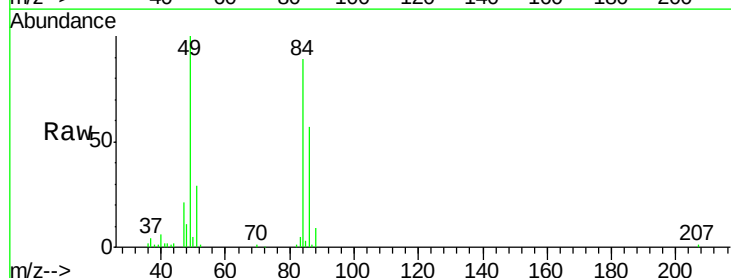
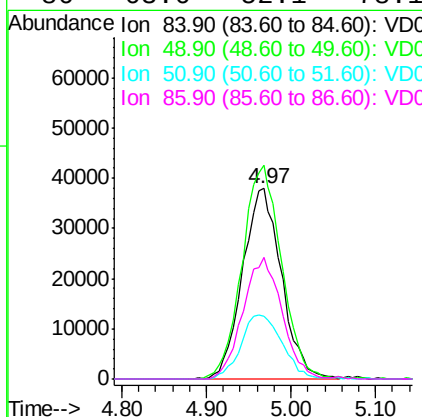
Manual Integrations
APPROVED

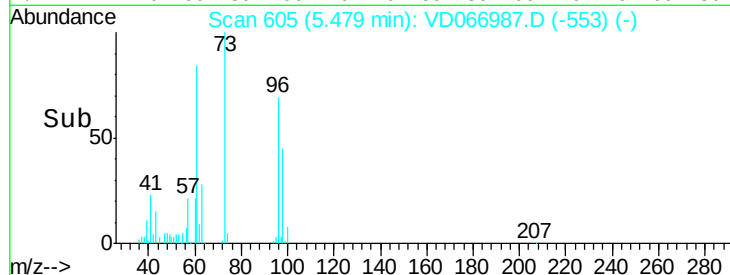
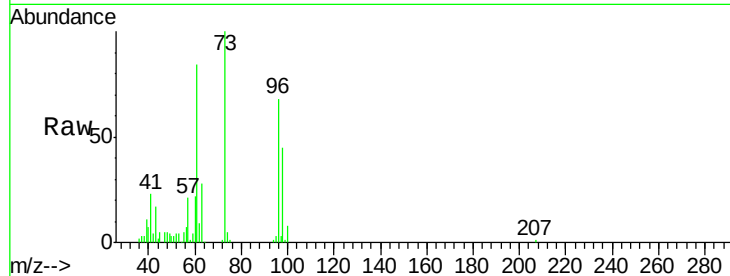
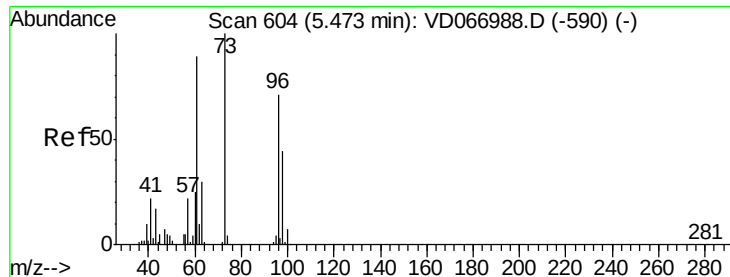
MMDadoda
10/2/2020 3:13:19 PM



#20
Methylene Chloride
Concen: 19.737 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion: 84 Resp: 121209
Ion Ratio Lower Upper
84 100
49 112.2 88.2 132.2
51 32.9 26.6 39.8
86 63.6 52.1 78.1





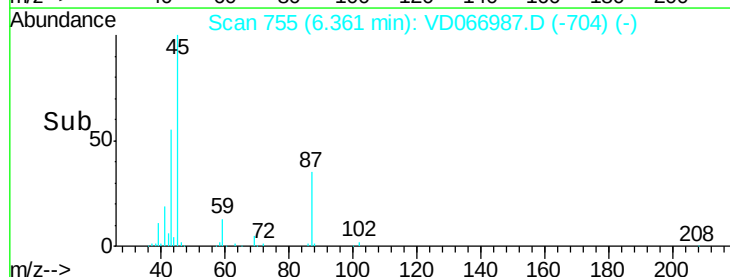
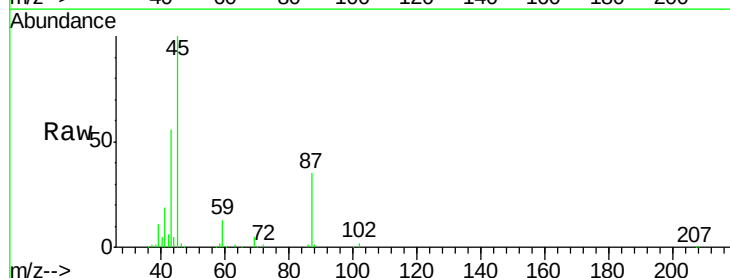
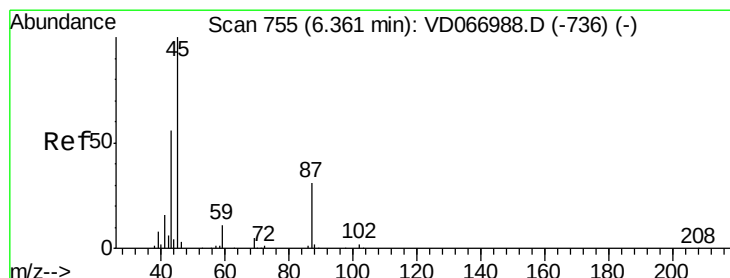
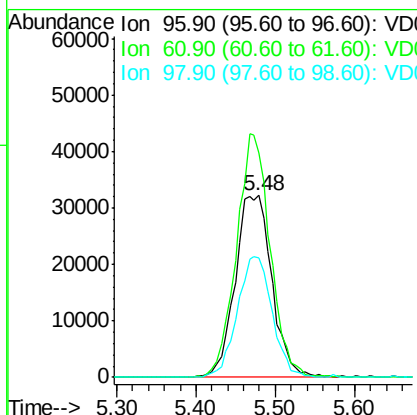
#21
trans-1,2-Dichloroethene
Concen: 20.994 ug/l
RT: 5.48 min Scan# 605
Delta R.T. 0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	123.3	99.6	149.4		
98	66.0	49.4	74.2		

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

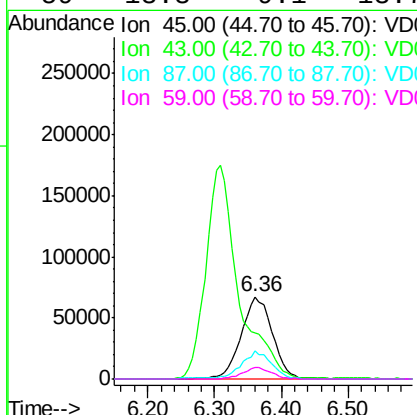
Manual Integrations
APPROVED

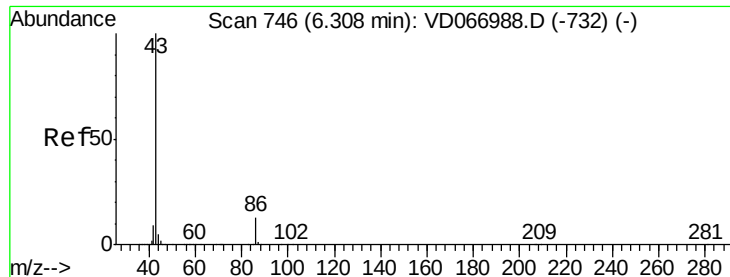
MMDadoda
10/2/2020 3:13:19 PM



#22
Diisopropyl ether
Concen: 21.310 ug/l
RT: 6.36 min Scan# 755
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100				
43	54.2	45.2	67.8		
87	34.6	25.6	38.4		
59	13.3	9.1	13.7		





#23

Vinyl Acetate

Concen: 103.093 ug/l

RT: 6.31 min Scan# 746

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 598433

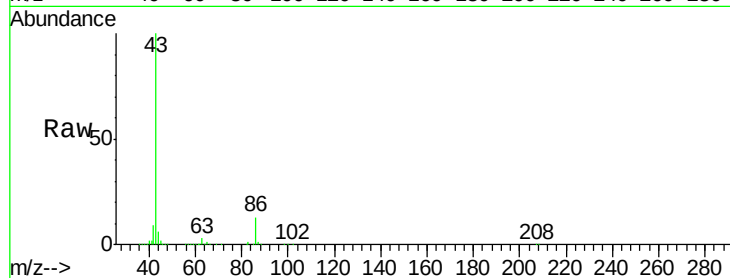
Ion Ratio Lower Upper

43 100

86 12.5 10.2 15.2

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

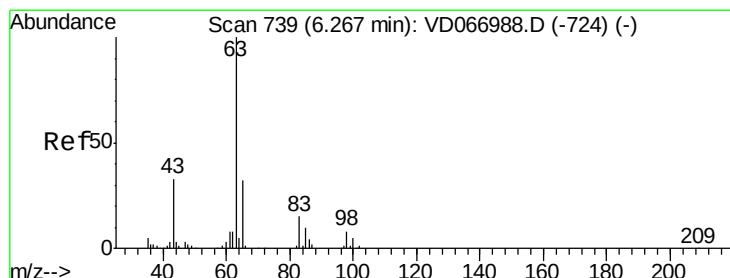
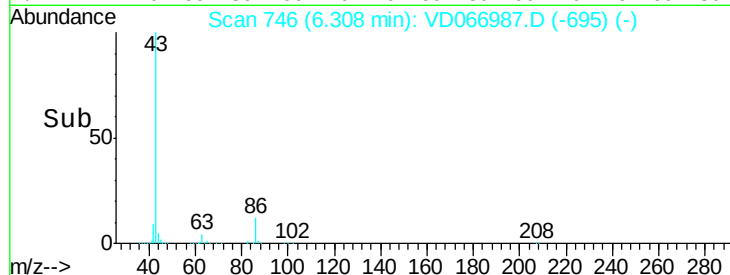
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 21.125 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

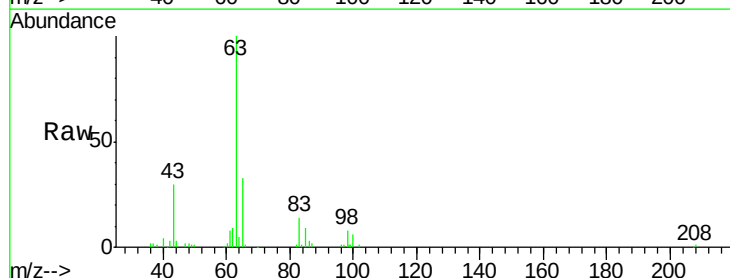
Tgt Ion: 63 Resp: 167009

Ion Ratio Lower Upper

63 100

98 8.0 4.2 12.6

100 5.9 2.6 7.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

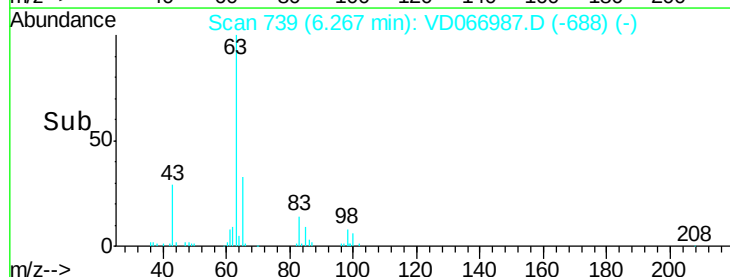
60000

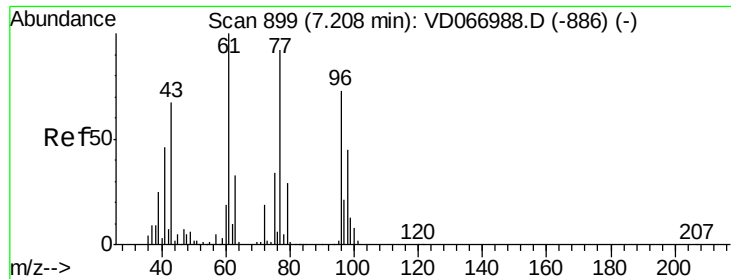
40000

20000

0

Time-->





#25

2-Butanone

Concen: 103.215 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 98584

Ion Ratio Lower Upper

43 100

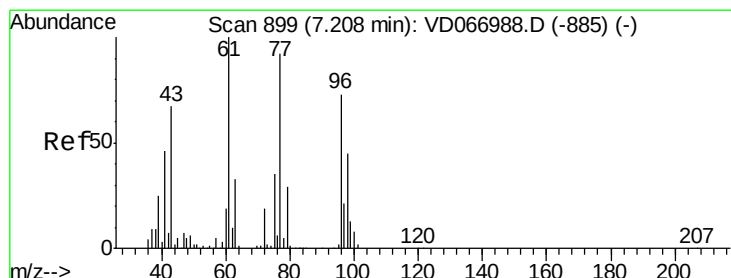
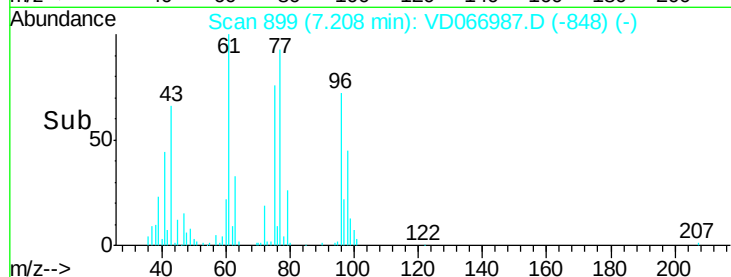
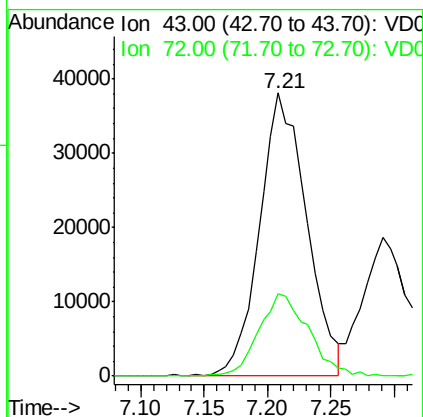
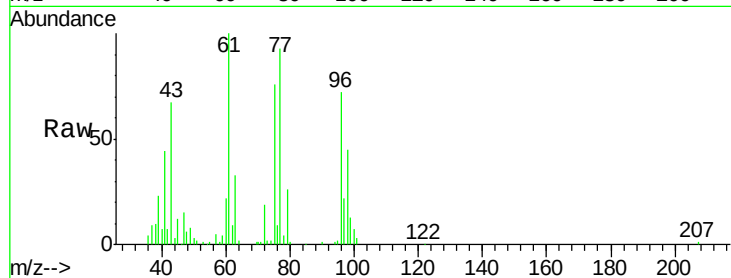
72 29.1 22.8 34.2

Manual Integrations

APPROVED

MMDadoda

10/2/2020 3:13:19 PM



#26

2,2-Dichloropropane

Concen: 20.656 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD066987.D

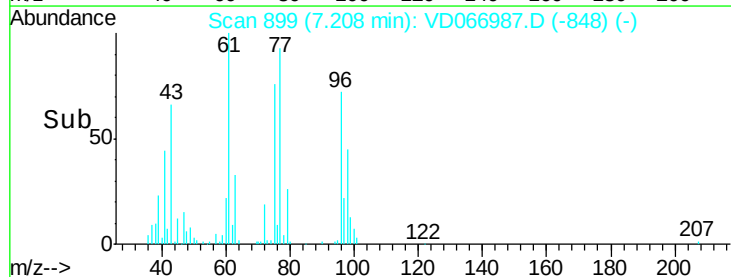
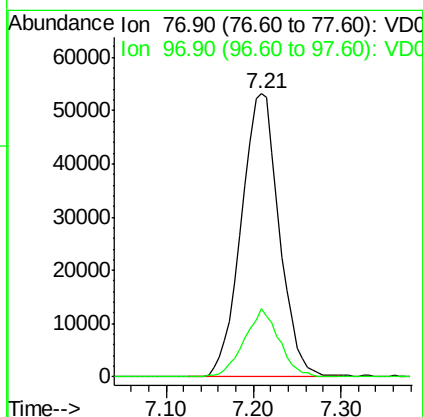
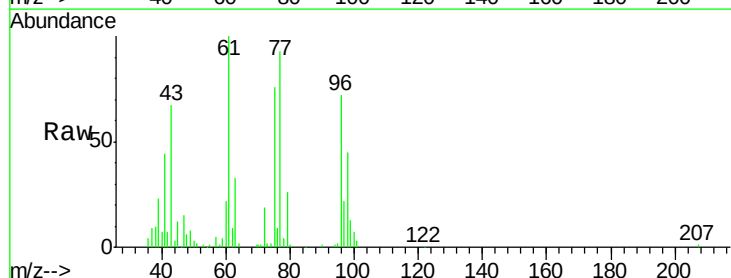
Acq: 01 Oct 2020 12:20

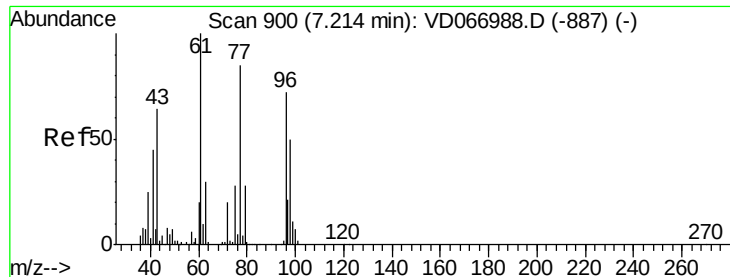
Tgt Ion: 77 Resp: 156681

Ion Ratio Lower Upper

77 100

97 22.2 11.4 34.2





#27

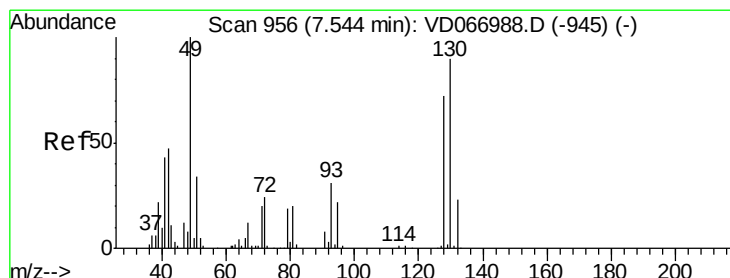
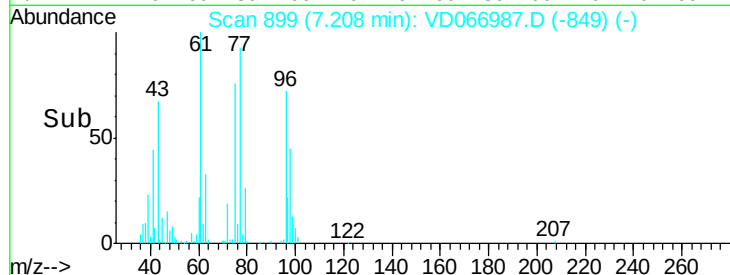
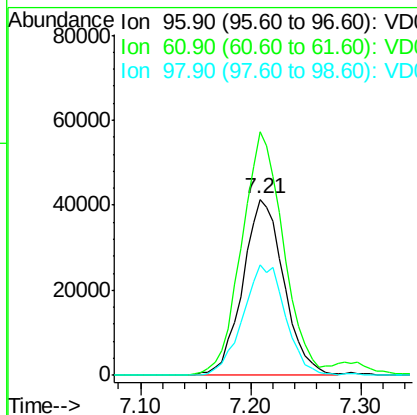
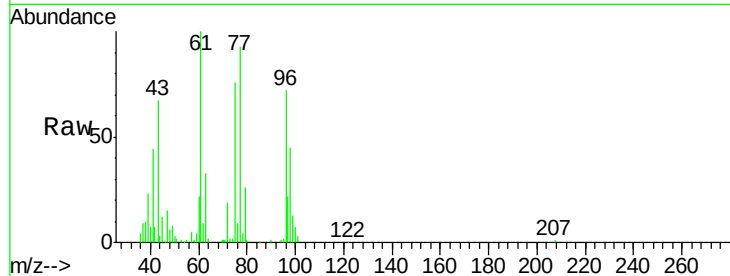
cis-1,2-Dichloroethene
Concen: 20.608 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	140.7	0.0	269.2	
98	65.0	0.0	129.4	

Manual Integrations
APPROVED

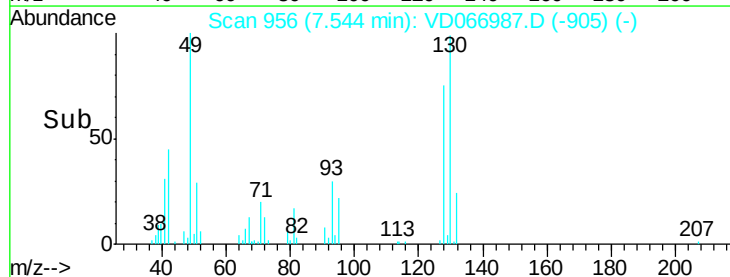
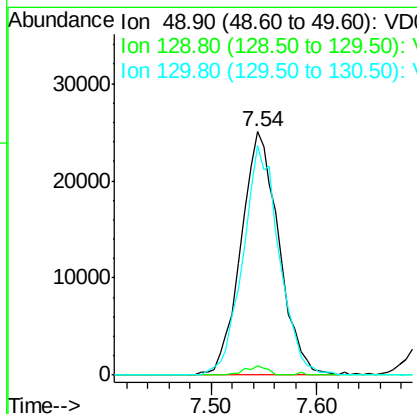
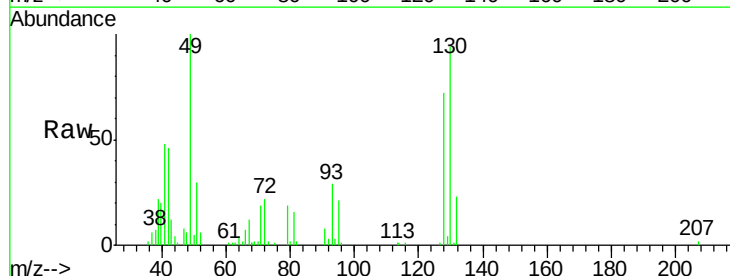
MMDadoda
10/2/2020 3:13:19 PM

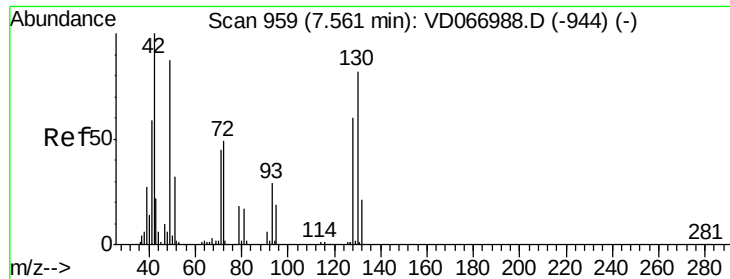


#28

Bromochloromethane
Concen: 20.416 ug/l
RT: 7.54 min Scan# 956
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.2	0.0	4.6	
130	90.7	74.1	111.1	





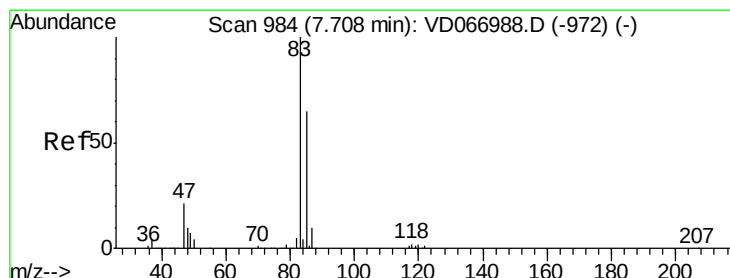
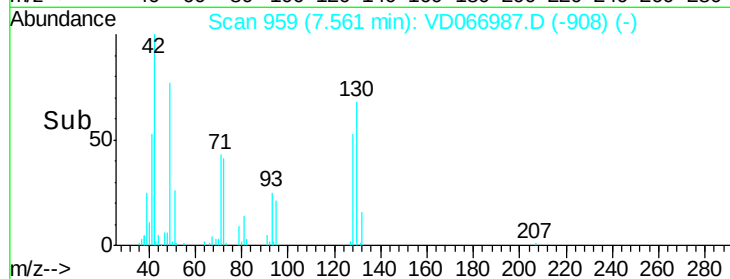
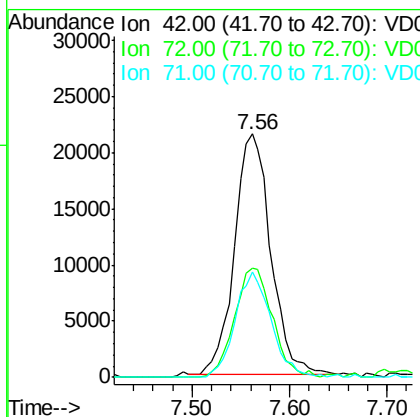
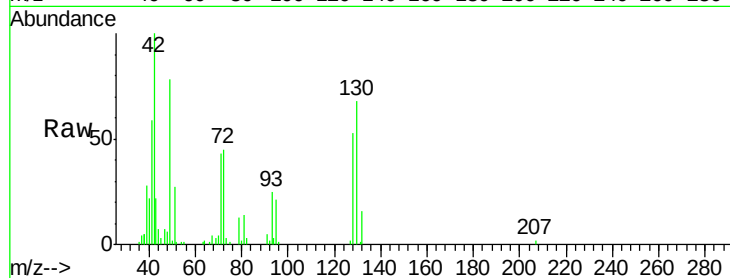
#29
Tetrahydrofuran
Concen: 101.620 ug/l
RT: 7.56 min Scan# 959
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.4	39.1	58.7
71	43.0	34.2	51.4

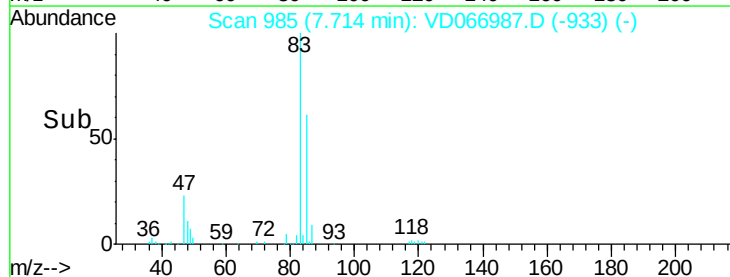
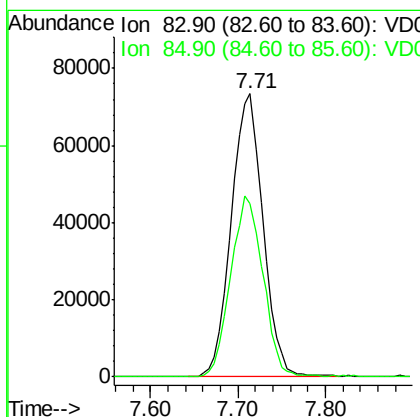
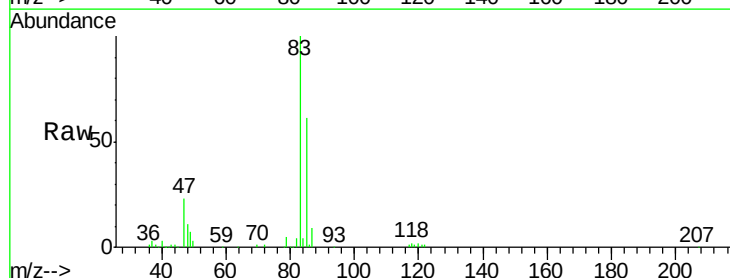
Manual Integrations
APPROVED

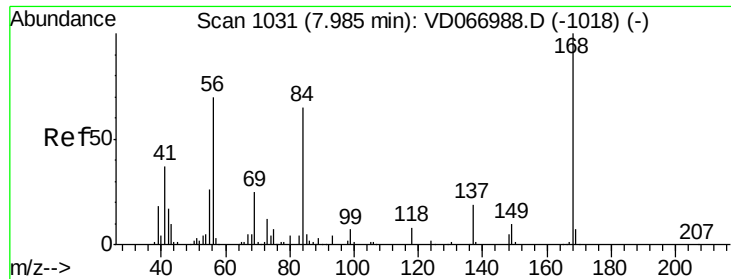
MMDadoda
10/2/2020 3:13:19 PM



#30
Chloroform
Concen: 21.070 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.3	52.3	78.5





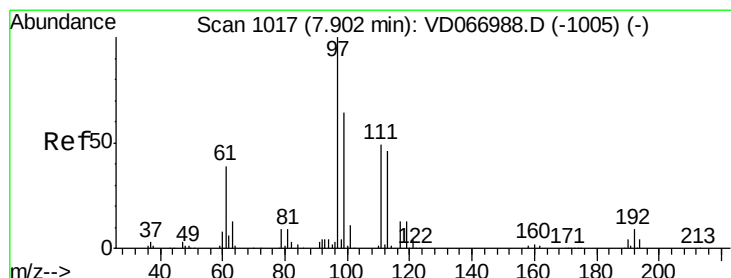
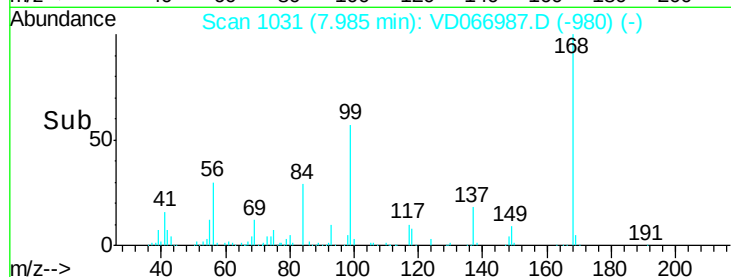
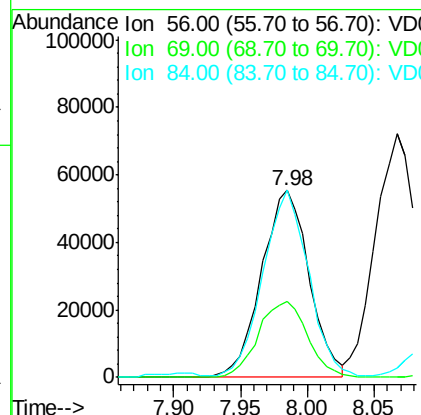
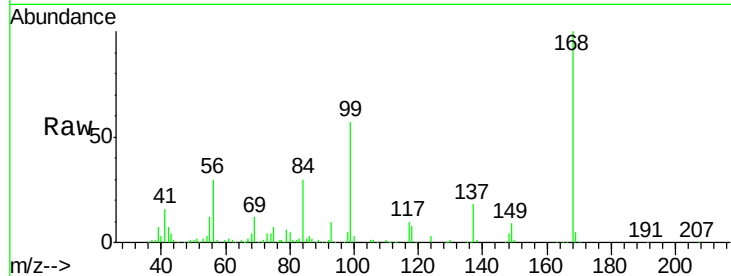
#31
Cyclohexane
Concen: 20.669 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
56	100			
69	41.0	29.0	43.6	
84	97.6	74.2	111.2	

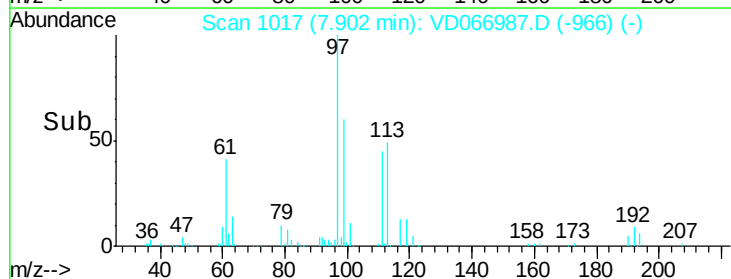
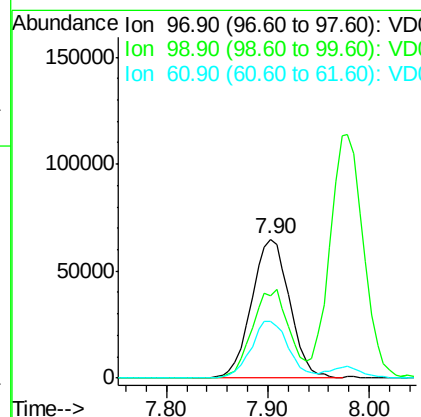
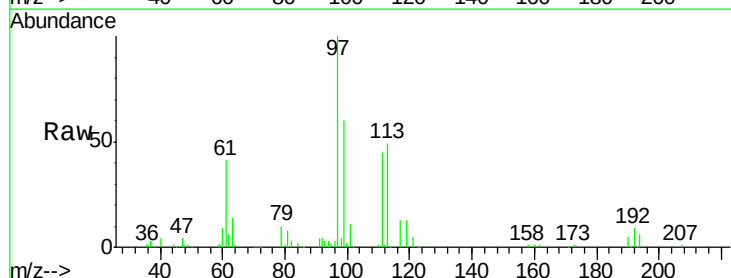
Manual Integrations
APPROVED

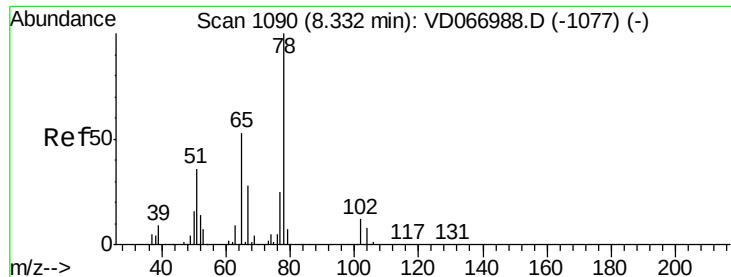
MMDadoda
10/2/2020 3:13:19 PM



#32
1,1,1-Trichloroethane
Concen: 21.239 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
97	100			
99	62.3	52.6	78.8	
61	40.7	32.8	49.2	





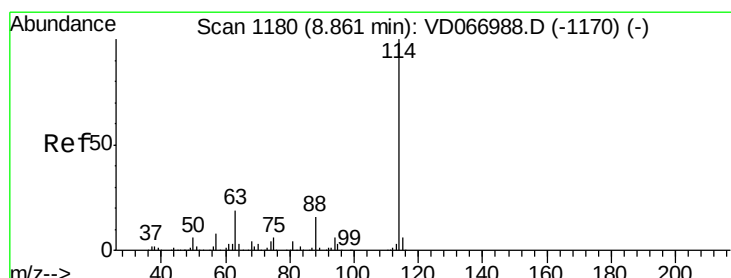
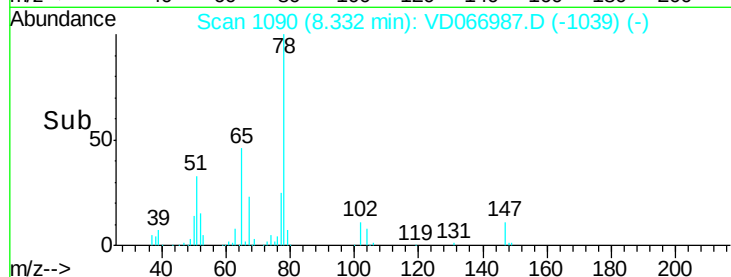
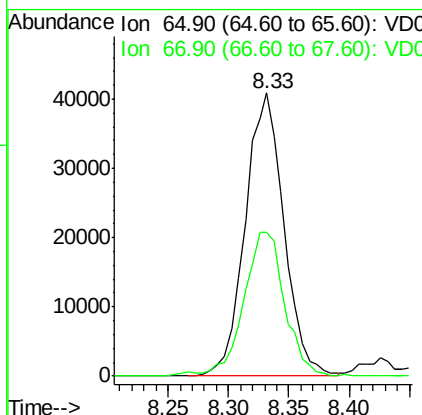
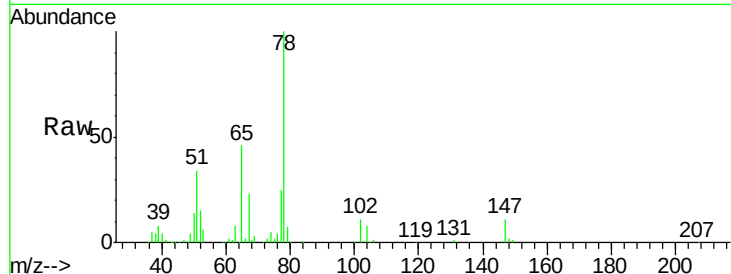
#33
 1,2-Dichloroethane-d4
 Concen: 20.711 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.0	0.0	106.8

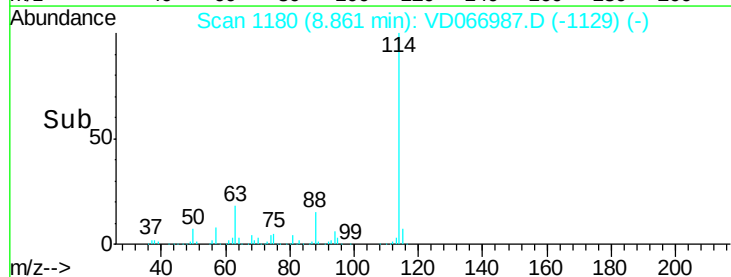
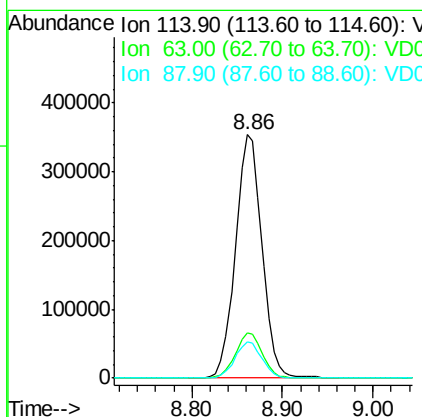
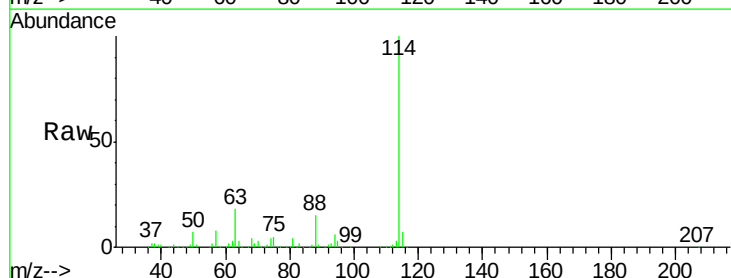
Manual Integrations
 APPROVED

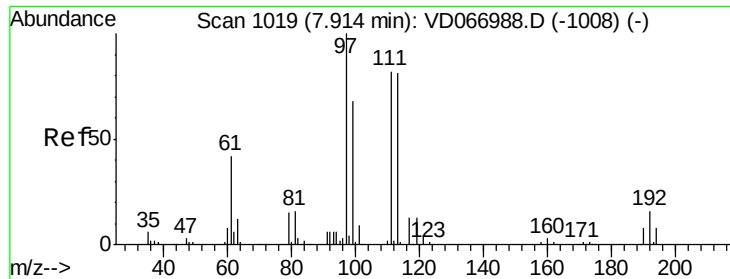
MMDadoda
 10/2/2020 3:13:19 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	38.4
88	15.1	0.0	31.2





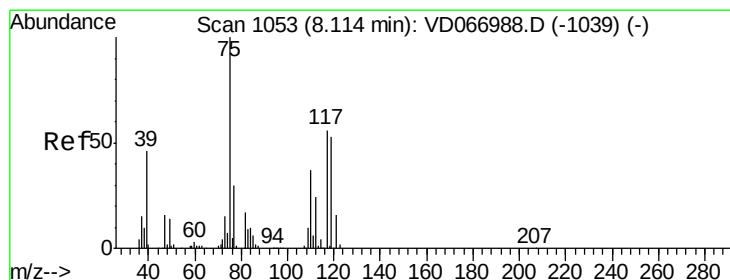
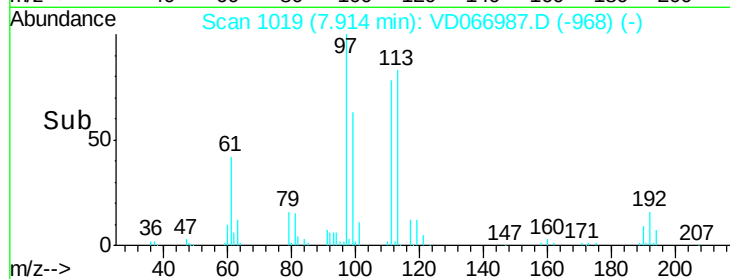
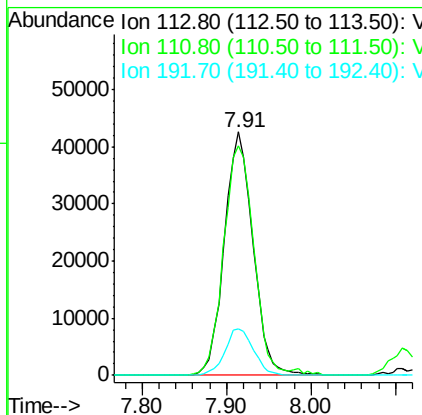
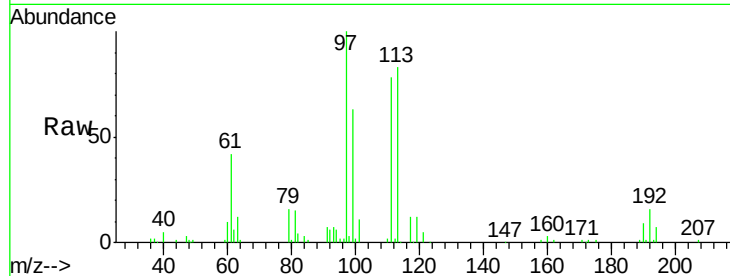
#35
 Dibromofluoromethane
 Concen: 21.221 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	99780		
111	100.0	83.0	124.4	
192	18.8	15.5	23.3	

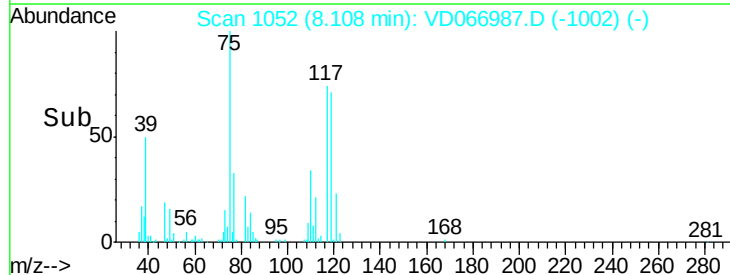
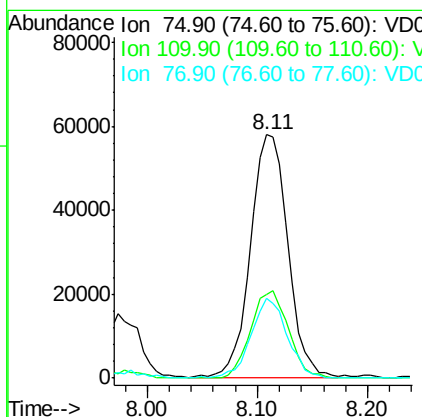
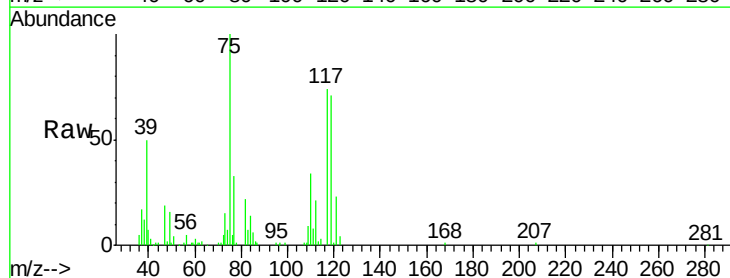
Manual Integrations
 APPROVED

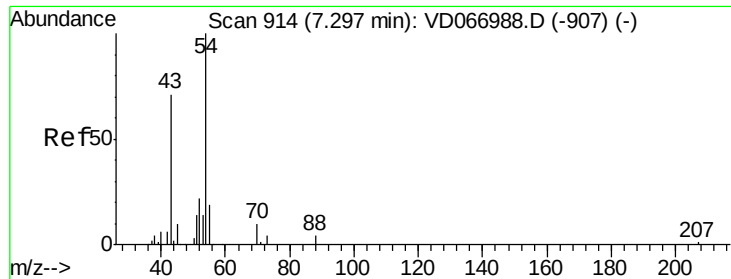
MMDadoda
 10/2/2020 3:13:19 PM



#36
 1,1-Dichloropropene
 Concen: 20.461 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	136974		
110	36.6	18.4	55.0	
77	32.0	24.8	37.2	





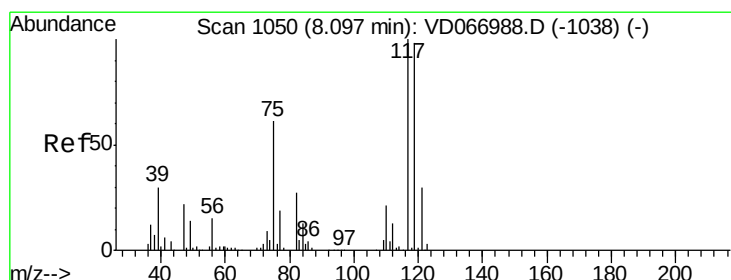
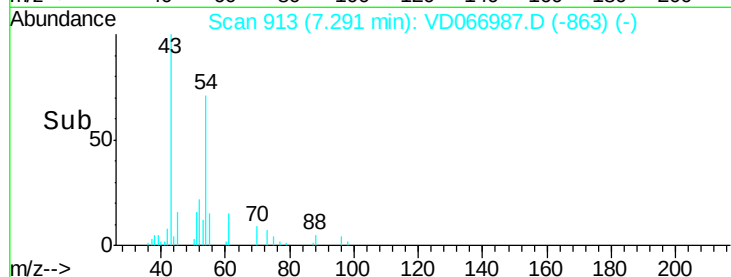
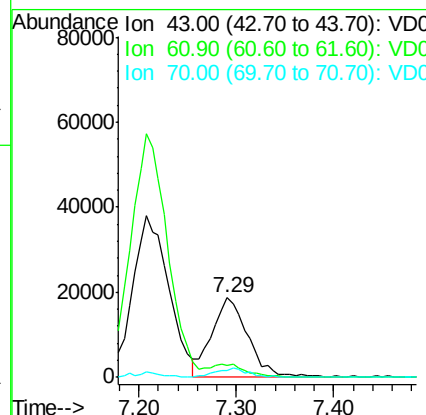
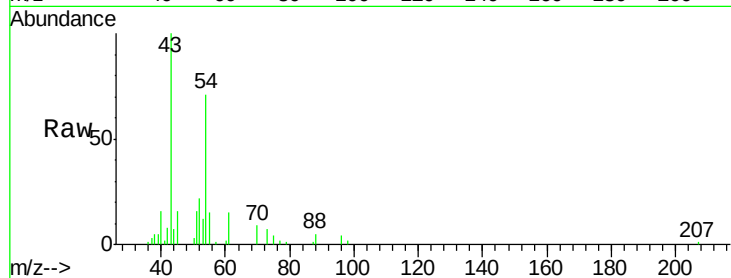
#37
Ethyl Acetate
Concen: 20.468 ug/l
RT: 7.29 min Scan# 913
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	43	Resp	47467
Ion Ratio	100	Lower	Upper
43	100		
61	16.0	12.5	18.7
70	10.6	9.4	14.0

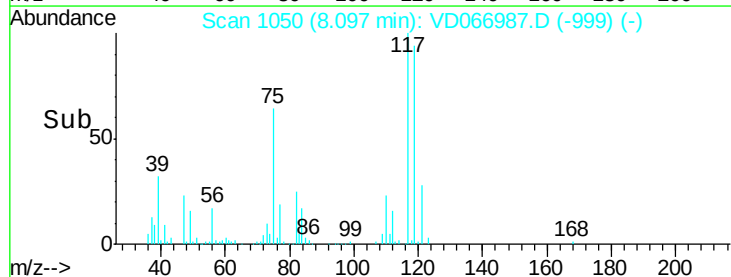
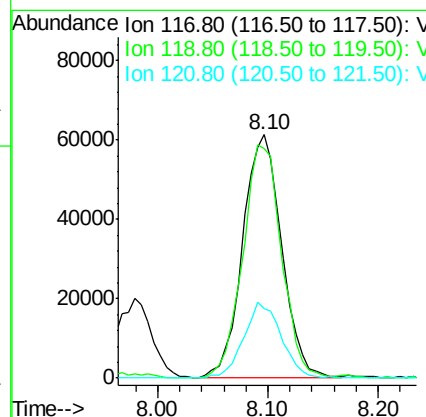
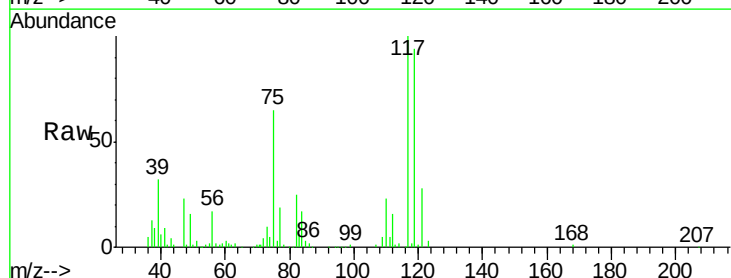
Manual Integrations
APPROVED

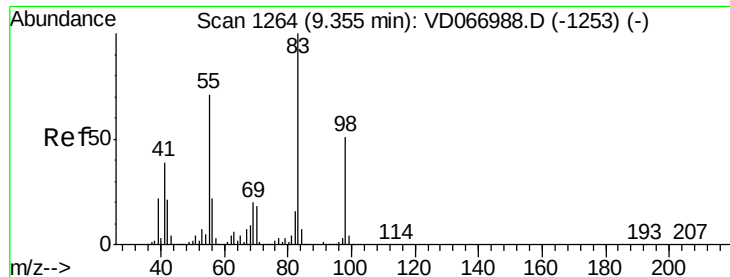
MMDadoda
10/2/2020 3:13:19 PM



#38
Carbon Tetrachloride
Concen: 21.099 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	117	Resp	152829
Ion Ratio	100	Lower	Upper
117	100		
119	94.1	78.7	118.1
121	28.4	24.2	36.2





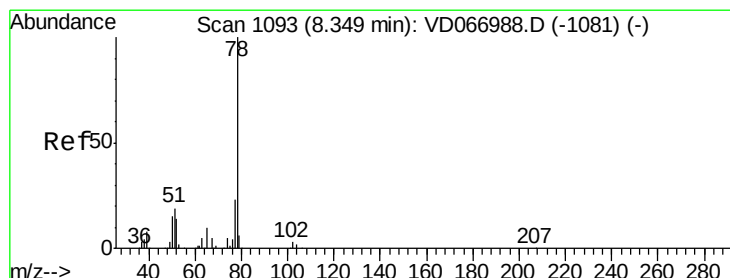
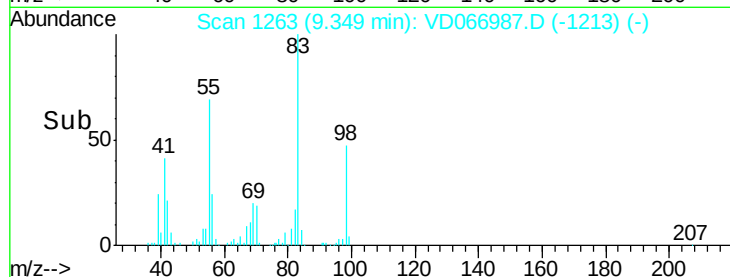
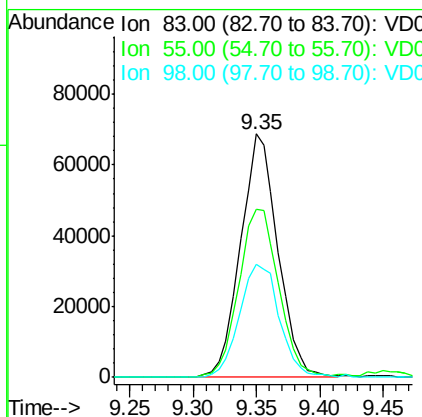
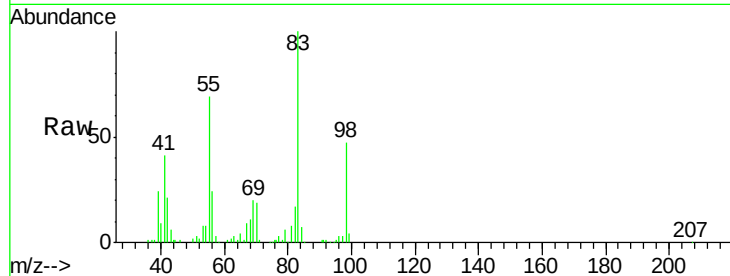
#39
Methylvlcyclohexane
Concen: 19.861 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	69.0	57.1	85.7
98	46.5	40.9	61.3

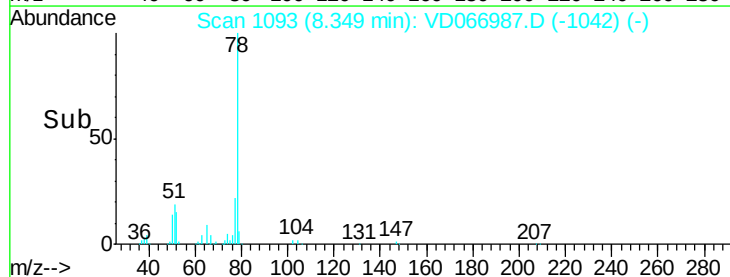
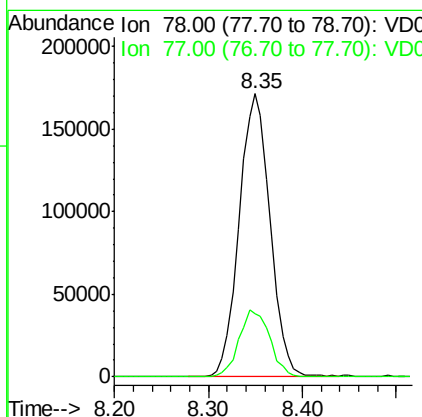
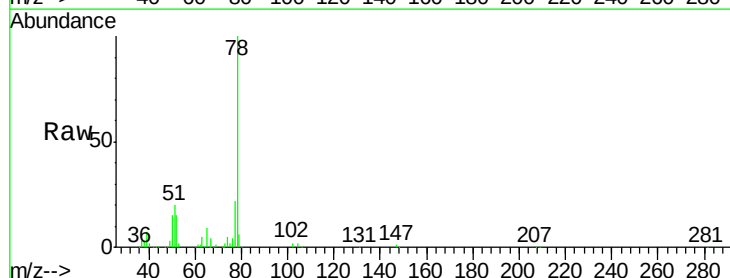
Manual Integrations
APPROVED

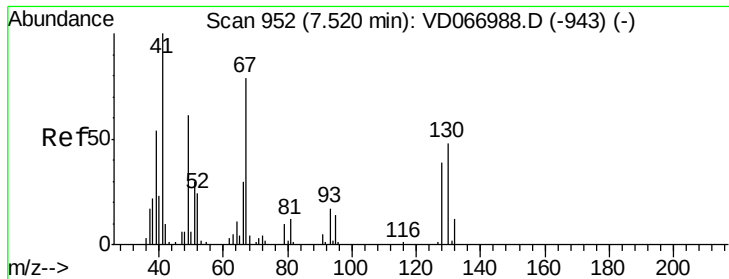
MMDadoda
10/2/2020 3:13:19 PM



#40
Benzene
Concen: 20.956 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.4	27.6





#41

Methacrylonitrile

Concen: 21.350 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 41 Resp: 26750

Ion Ratio Lower Upper

41 100

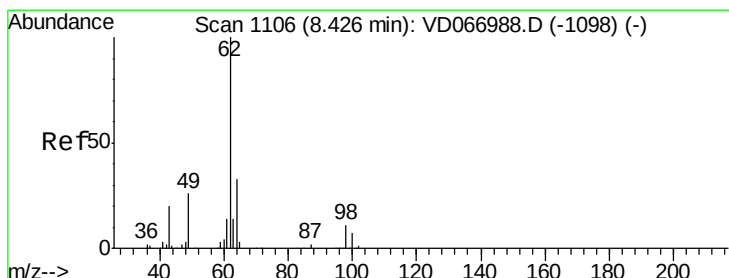
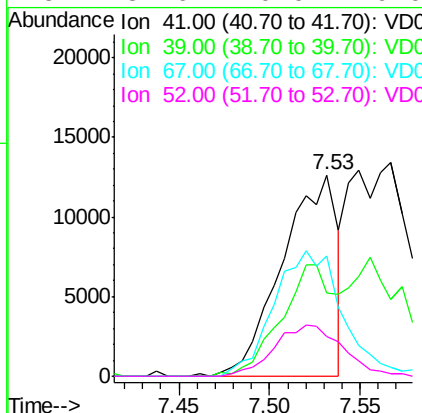
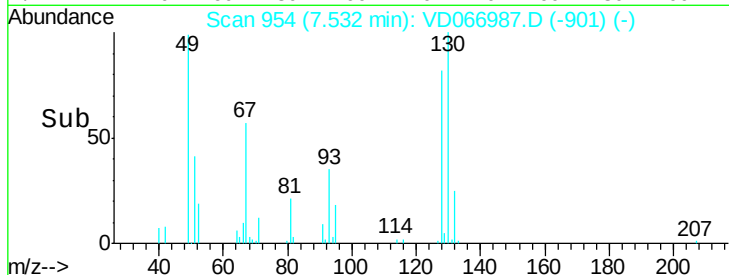
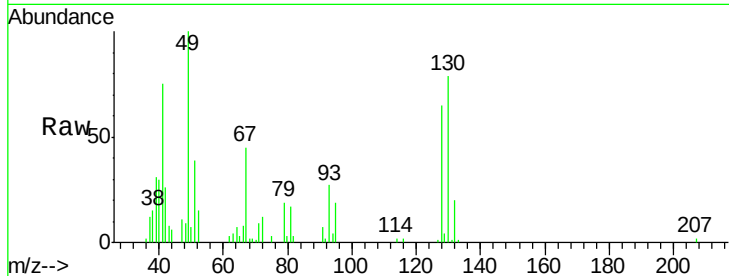
39 53.6 0.0 0.0#

67 77.6 0.0 0.0#

52 31.6 0.0 0.0#

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#42

1,2-Dichloroethane

Concen: 20.814 ug/l

RT: 8.43 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VD066987.D

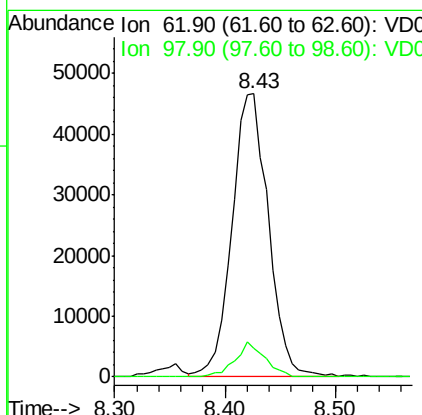
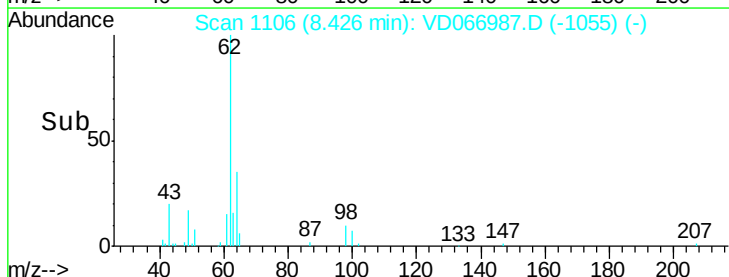
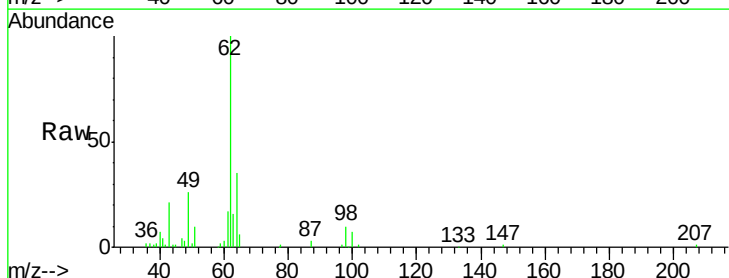
Acq: 01 Oct 2020 12:20

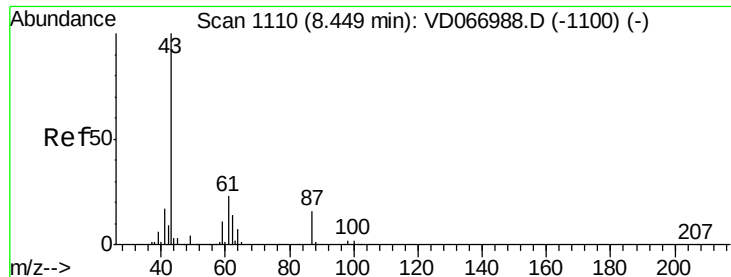
Tgt Ion: 62 Resp: 108148

Ion Ratio Lower Upper

62 100

98 10.1 0.0 22.6





#43

Isopropyl Acetate

Concen: 20.059 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

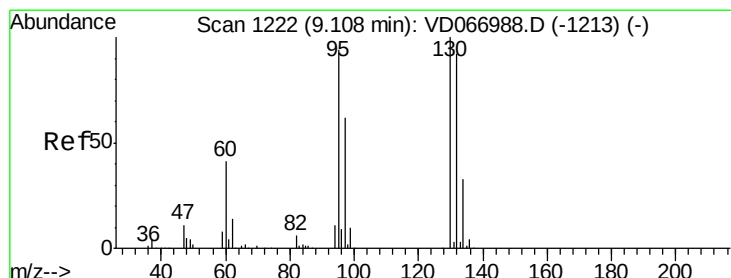
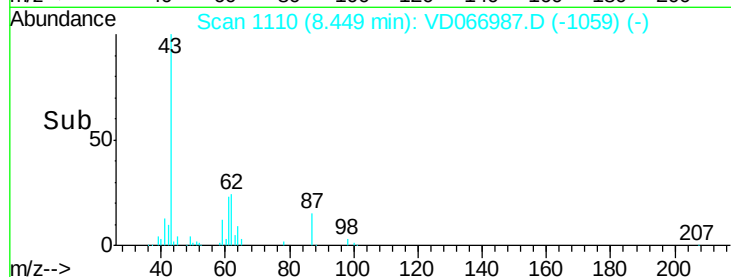
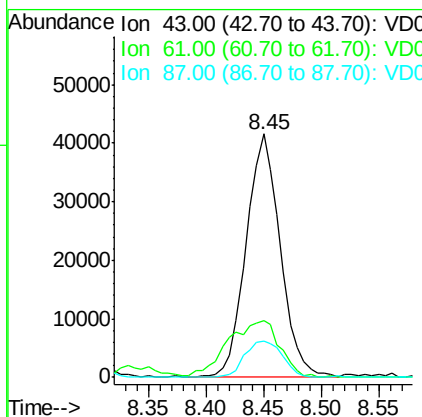
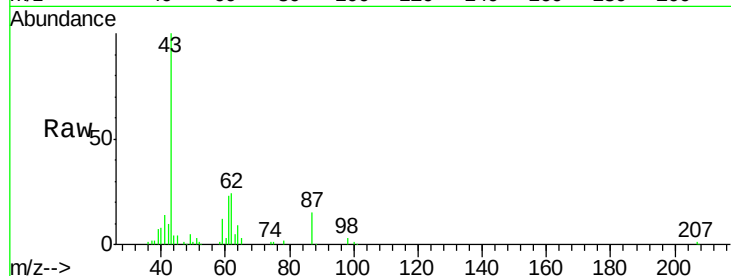
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	85698
Ion	Ratio	Lower	Upper
43	100		
61	35.3	27.1	40.7
87	16.4	12.3	18.5

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#44

Trichloroethene

Concen: 21.004 ug/l

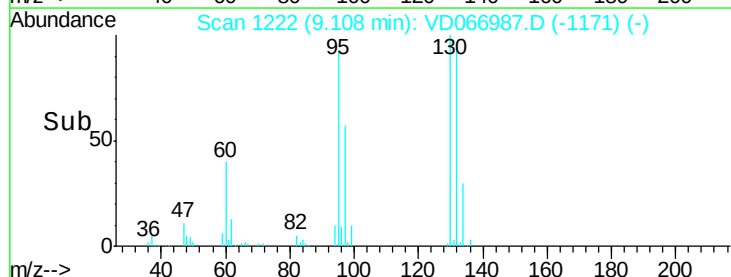
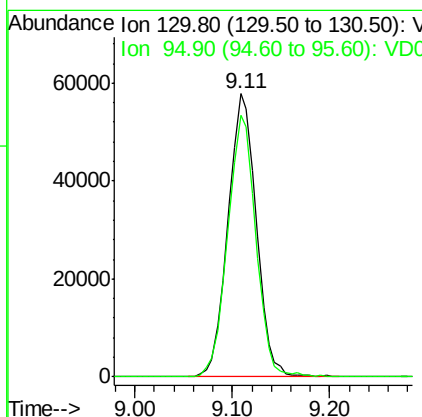
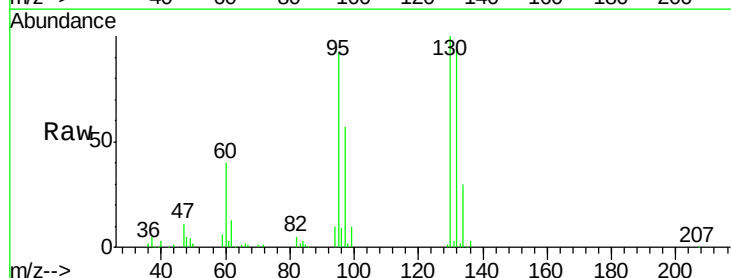
RT: 9.11 min Scan# 1222

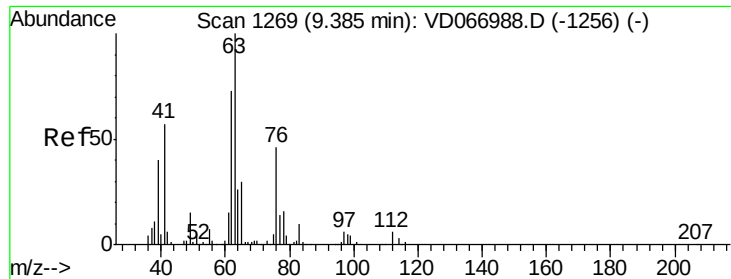
Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	130	Resp:	116621
Ion	Ratio	Lower	Upper
130	100		
95	92.5	0.0	187.8





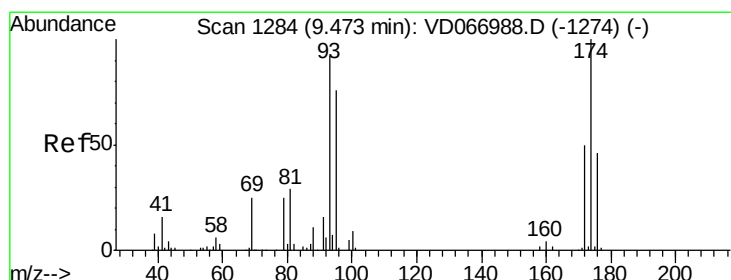
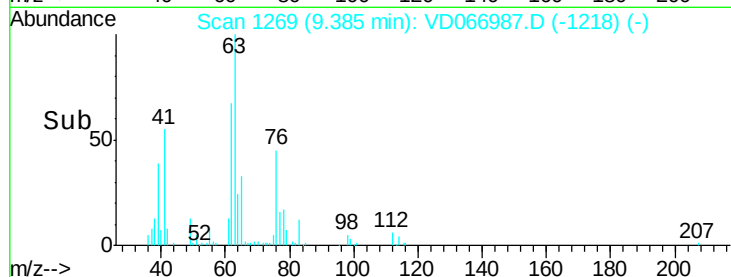
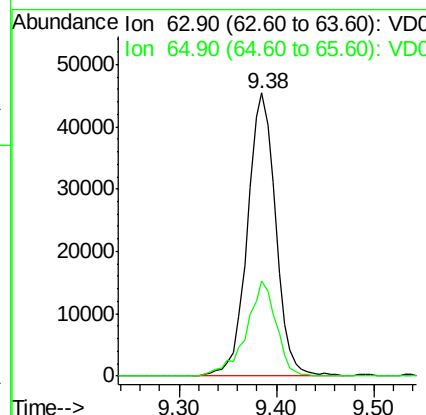
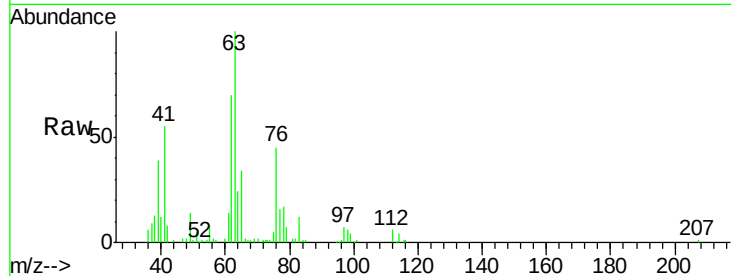
#45
 1,2-Dichloropropane
 Concen: 20.900 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.7	23.7	35.5

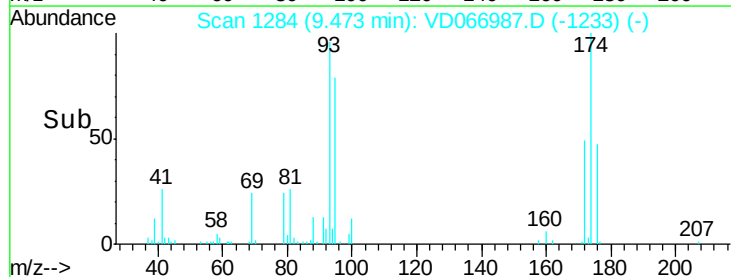
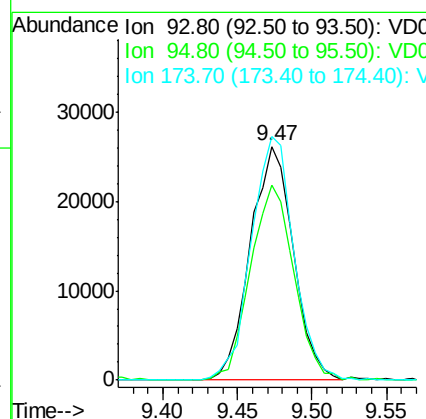
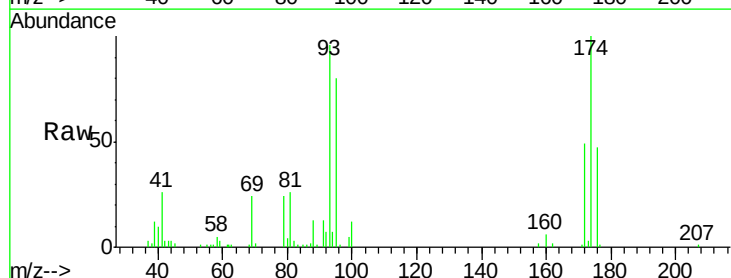
Manual Integrations
 APPROVED

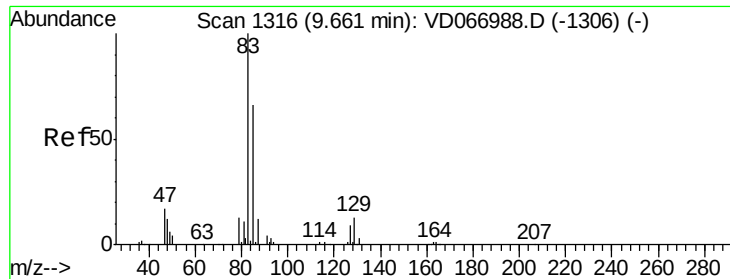
MMDadoda
 10/2/2020 3:13:19 PM



#46
 Dibromomethane
 Concen: 20.806 ug/l
 RT: 9.47 min Scan# 1284
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.3	64.7	97.1
174	103.2	81.4	122.2





#47

Bromodichloromethane

Concen: 20.755 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

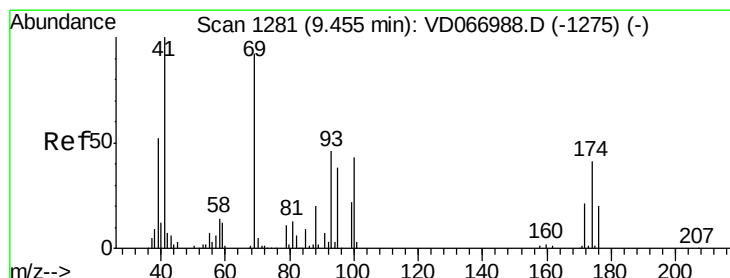
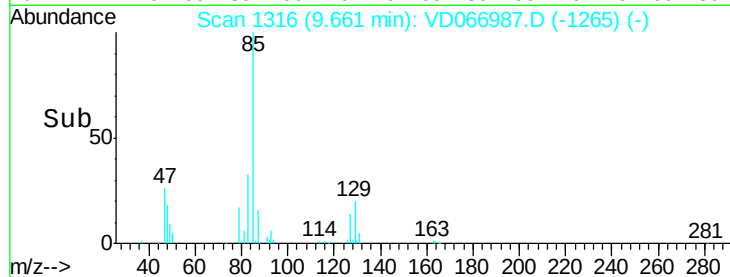
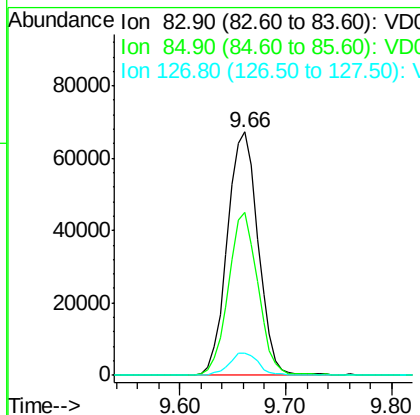
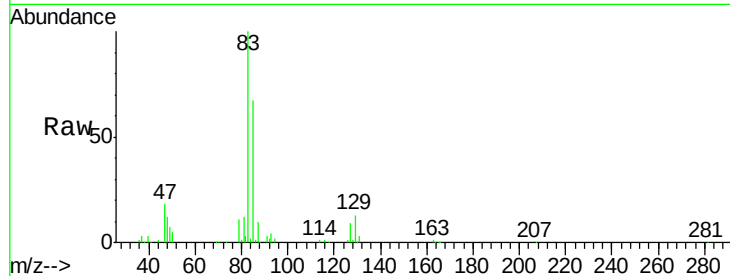
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	135474
Ion	Ratio	Lower	Upper
83	100		
85	66.8	52.9	79.3
127	9.4	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#48

Methyl methacrylate

Concen: 18.937 ug/l

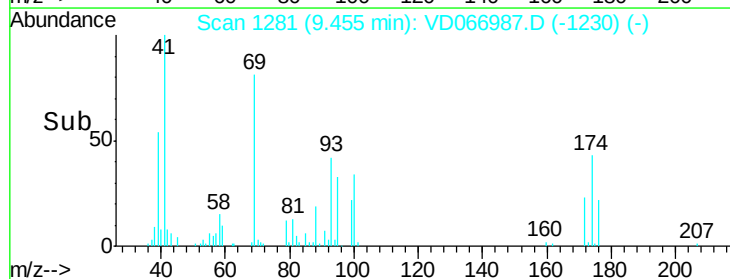
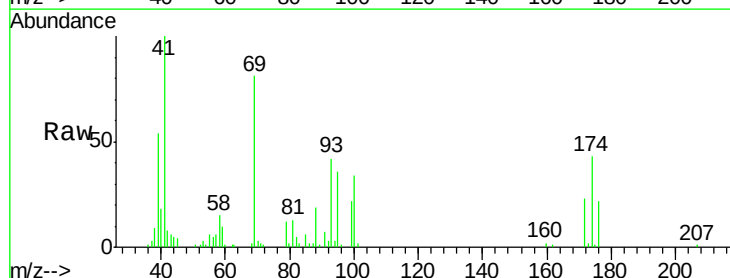
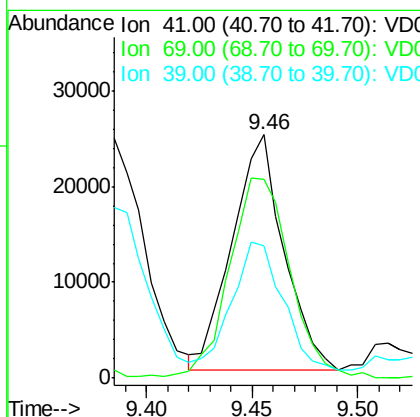
RT: 9.46 min Scan# 1281

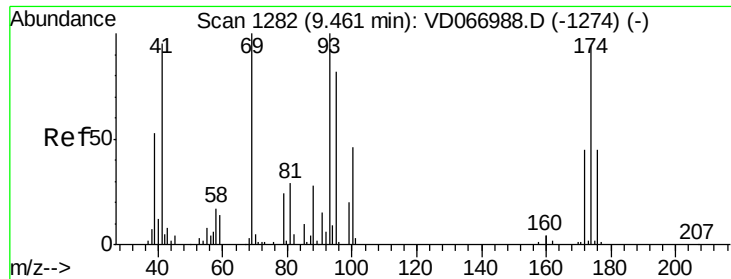
Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	41	Resp:	41449
Ion	Ratio	Lower	Upper
41	100		
69	101.0	68.5	102.7
39	54.0	40.2	60.2





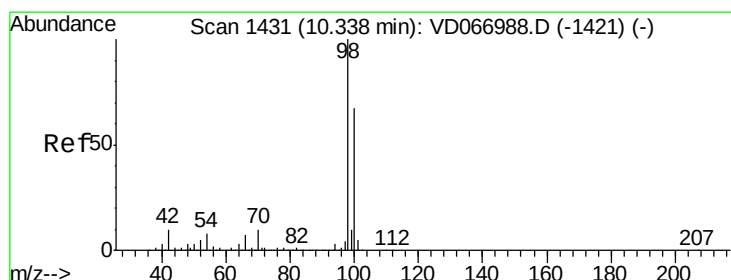
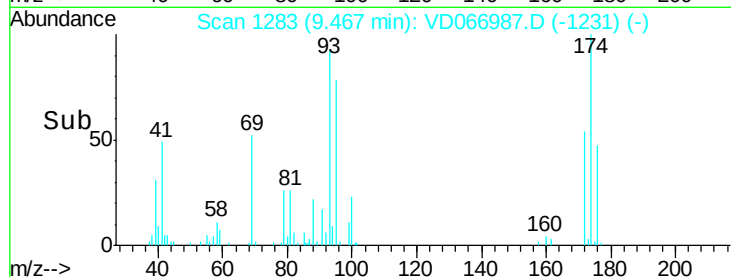
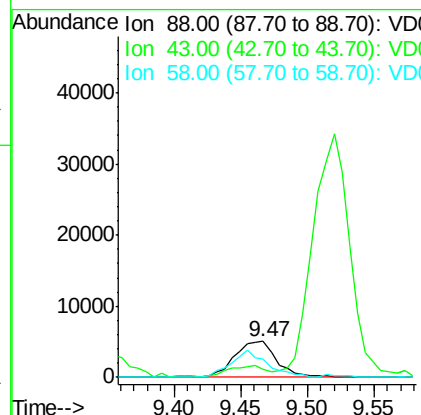
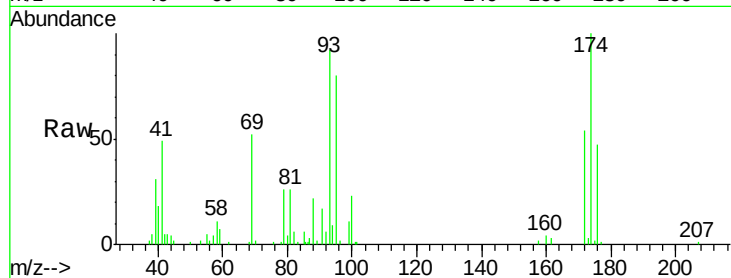
#49
1,4-Dioxane
Concen: 420.799 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. 0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	88	Resp	11028
Ion	Ratio	Lower	Upper
88	100		
43	30.3	25.6	38.4
58	64.5	53.5	80.3

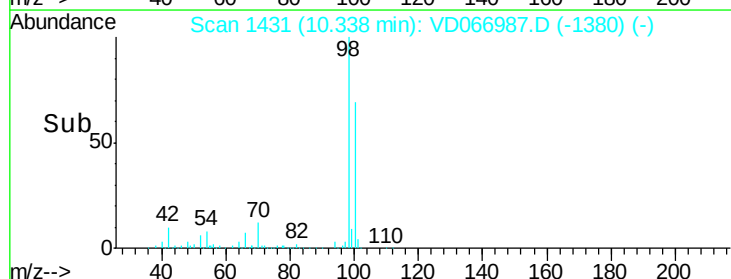
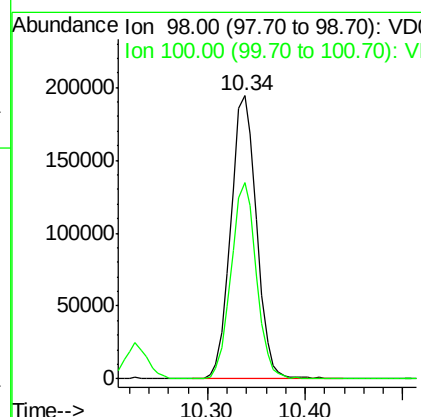
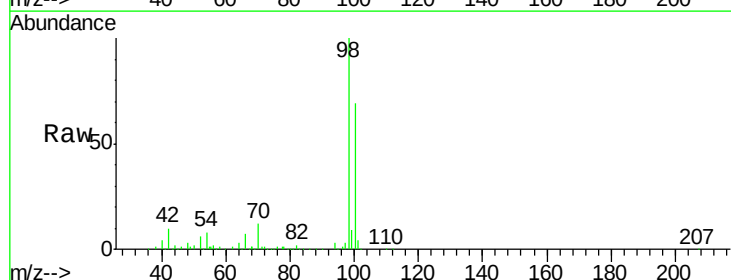
Manual Integrations
APPROVED

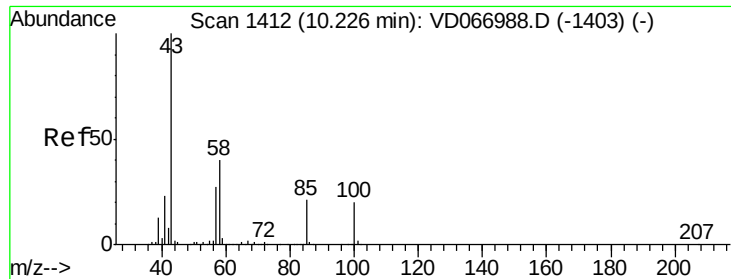
MMDadoda
10/2/2020 3:13:19 PM



#50
Toluene-d8
Concen: 20.802 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	98	Resp	356408
Ion	Ratio	Lower	Upper
98	100		
100	68.5	52.8	79.2





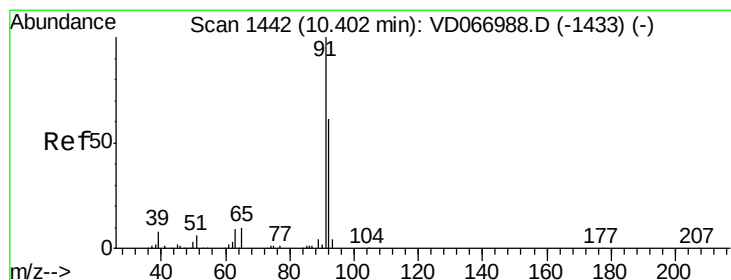
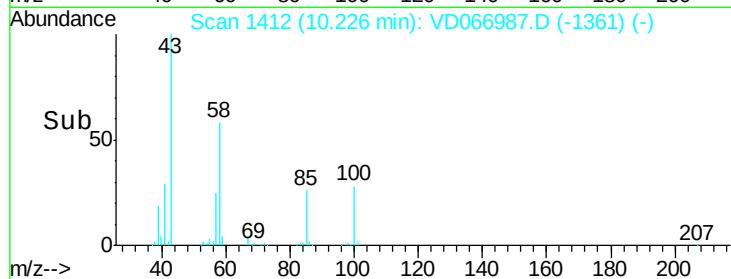
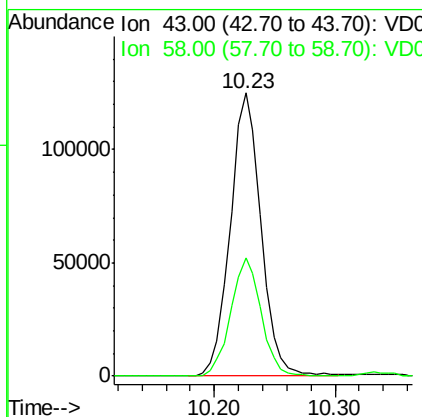
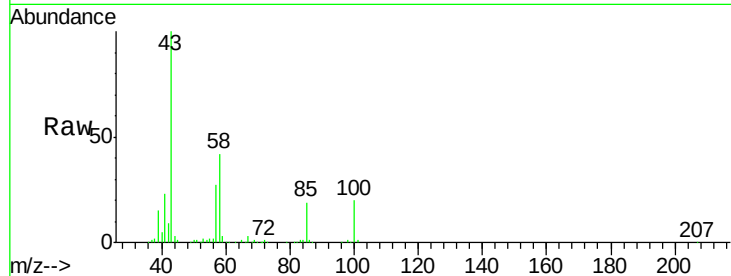
#51
 4-Methyl-2-Pentanone
 Concen: 104.223 ug/l
 RT: 10.23 min Scan# 1412
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	41.3	33.8	50.8

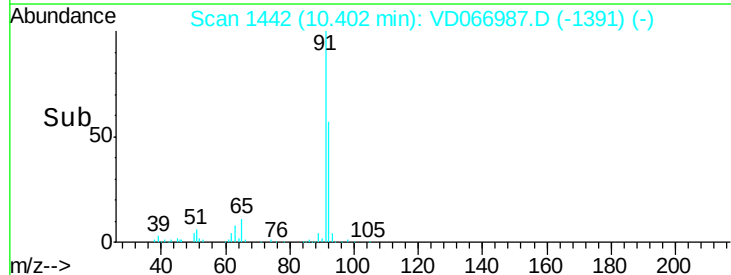
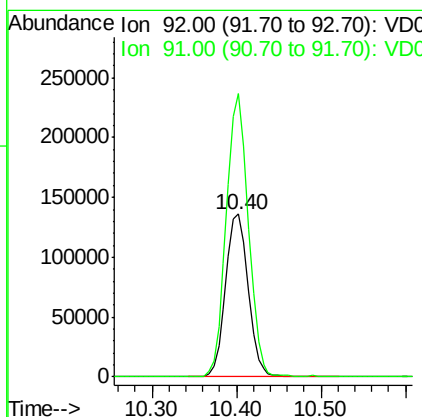
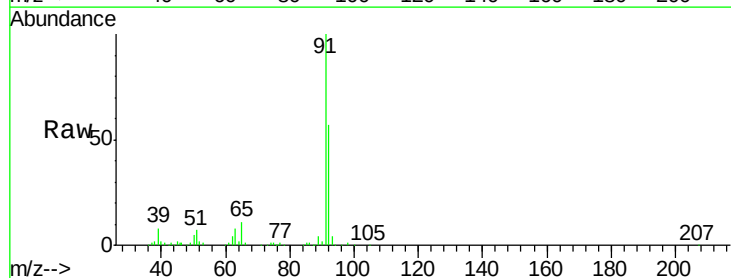
Manual Integrations
 APPROVED

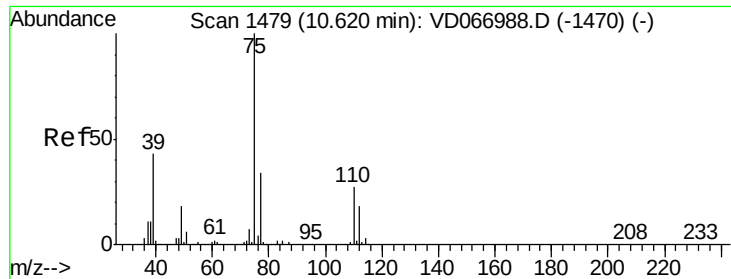
MMDadoda
 10/2/2020 3:13:19 PM



#52
 Toluene
 Concen: 21.002 ug/l
 RT: 10.40 min Scan# 1442
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
92	100		
91	169.4	135.1	202.7





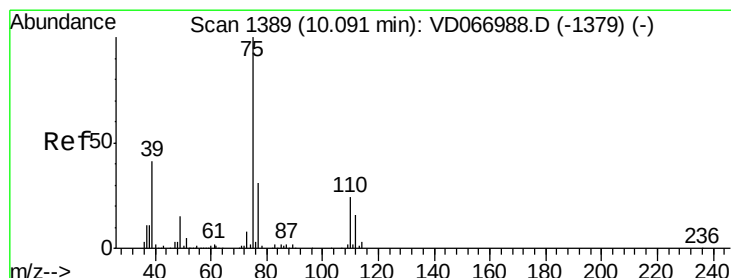
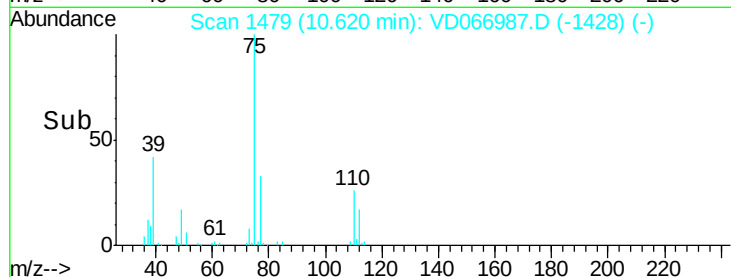
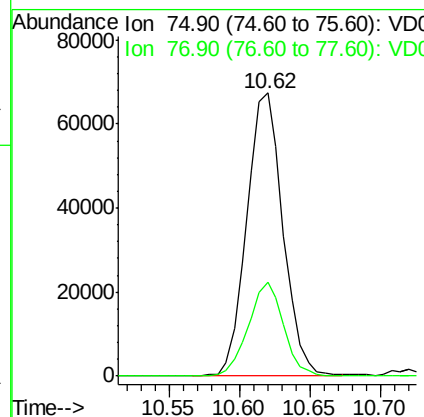
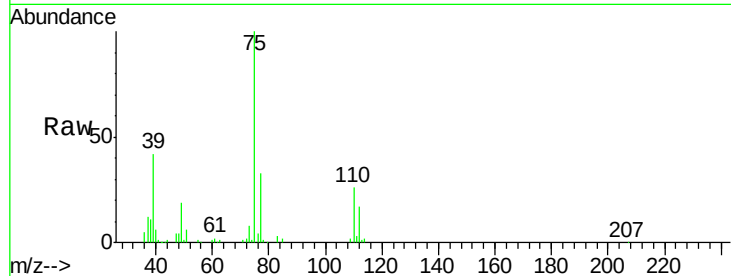
#53
t-1,3-Dichloropropene
Concen: 20.754 ug/l
RT: 10.62 min Scan# 1479
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 121075
Ion Ratio Lower Upper
75 100
77 33.2 27.1 40.7

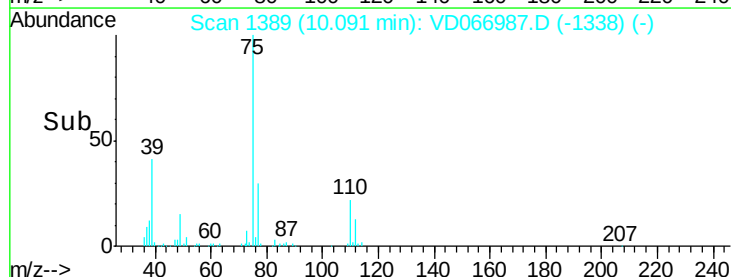
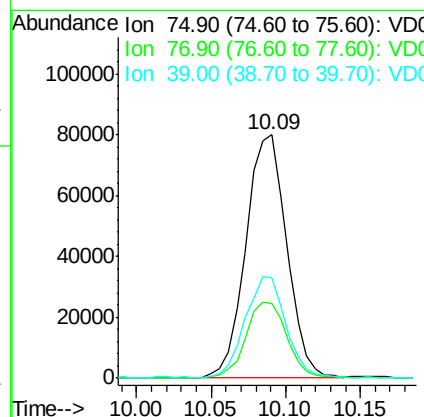
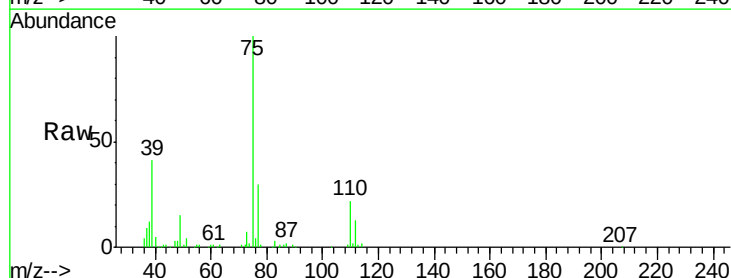
Manual Integrations
APPROVED

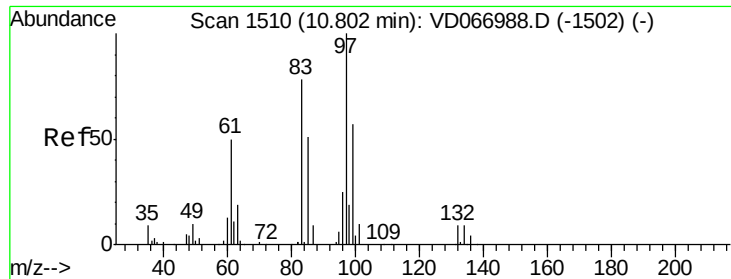
MMDadoda
10/2/2020 3:13:19 PM



#54
cis-1,3-Dichloropropene
Concen: 21.242 ug/l
RT: 10.09 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion: 75 Resp: 151316
Ion Ratio Lower Upper
75 100
77 30.5 24.6 37.0
39 40.9 33.0 49.4





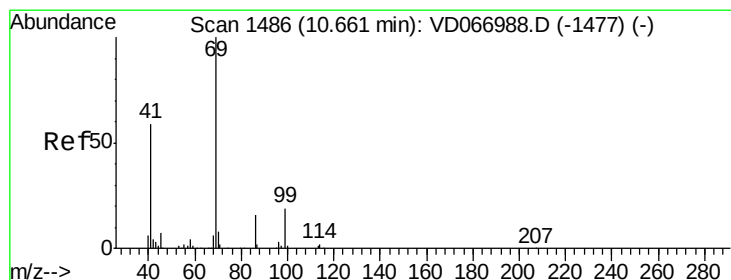
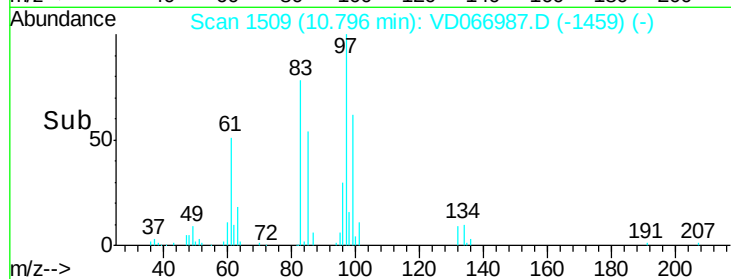
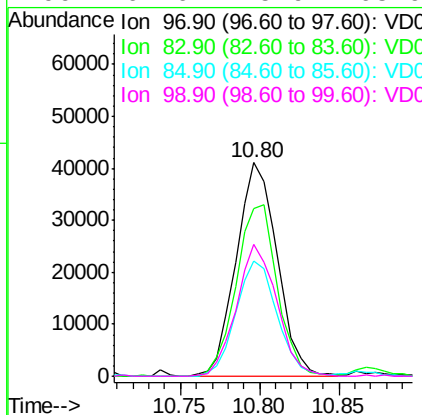
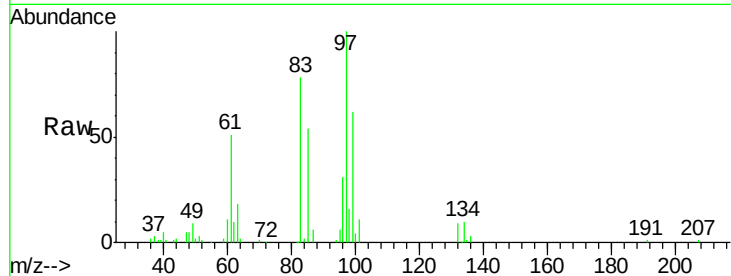
#55
 1,1,2-Trichloroethane
 Concen: 21.236 ug/l
 RT: 10.80 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion:	97	Resp:	74136
Ion	Ratio	Lower	Upper
97	100		
83	78.4	62.4	93.6
85	53.8	41.0	61.4
99	61.6	45.9	68.9

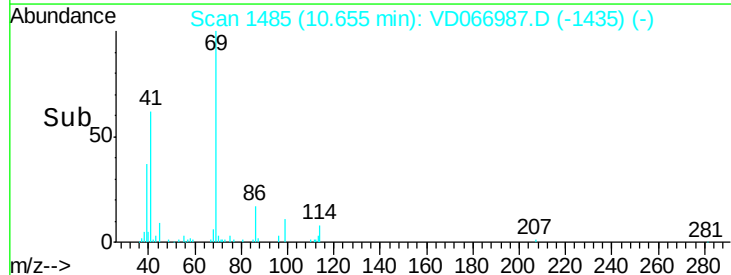
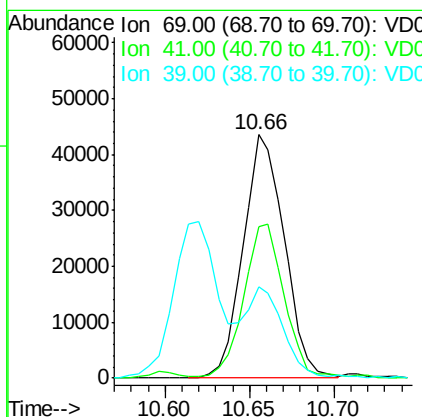
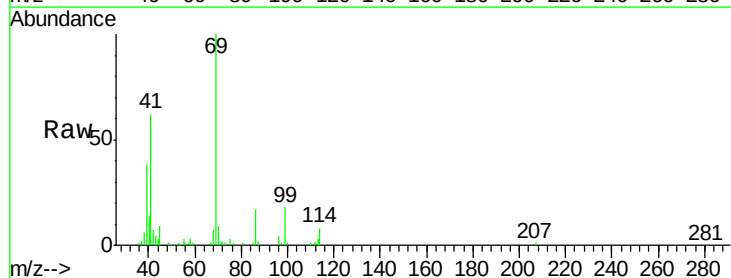
Manual Integrations
 APPROVED

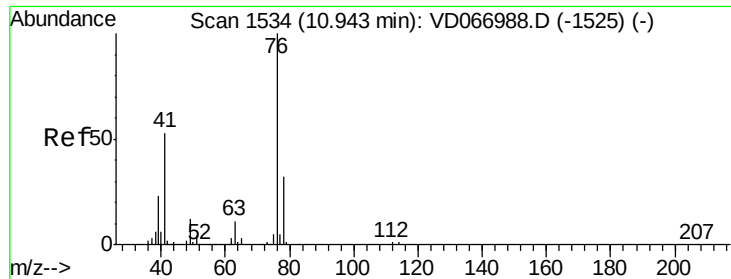
MMDadoda
 10/2/2020 3:13:19 PM



#56
 Ethyl methacrylate
 Concen: 20.493 ug/l
 RT: 10.66 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion:	69	Resp:	73864
Ion	Ratio	Lower	Upper
69	100		
41	60.9	46.4	69.6
39	32.7	23.8	35.6





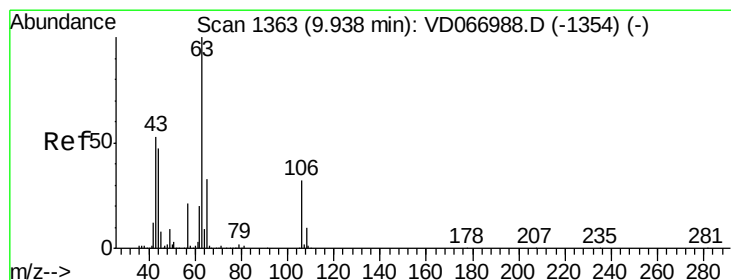
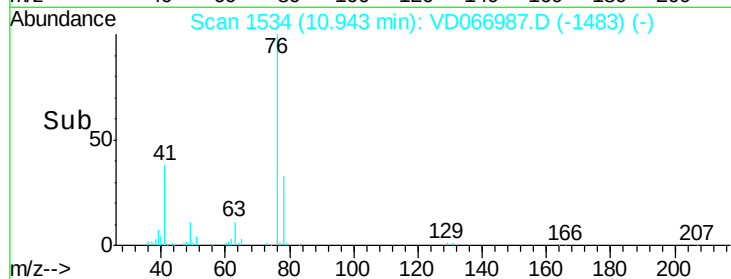
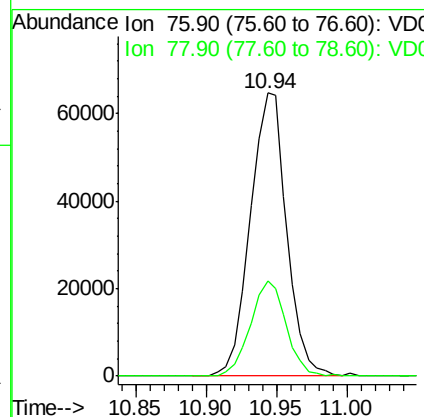
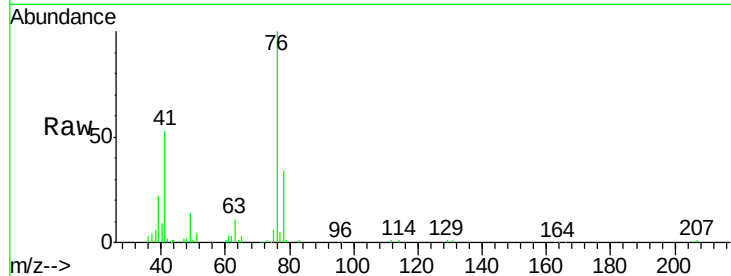
#57
 1,3-Dichloropropane
 Concen: 20.666 ug/l
 RT: 10.94 min Scan# 1534
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.0	25.8	38.8

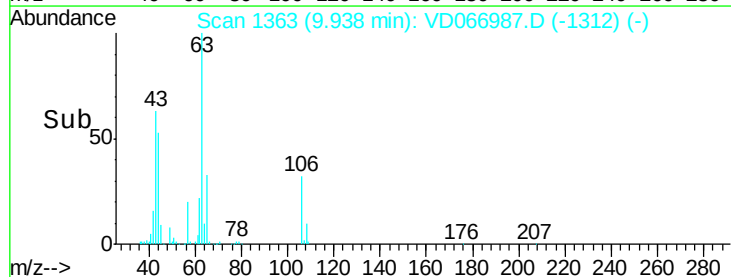
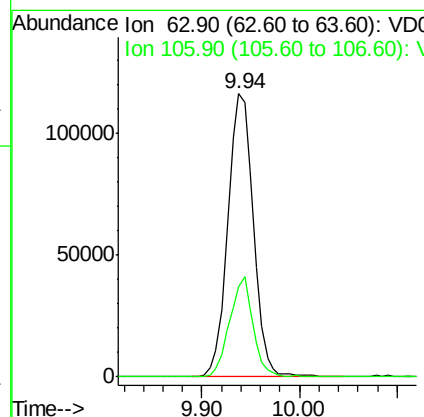
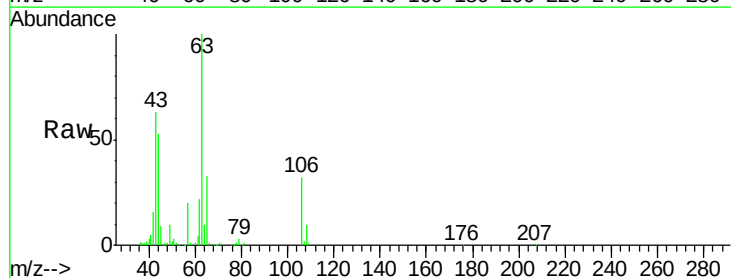
Manual Integrations
 APPROVED

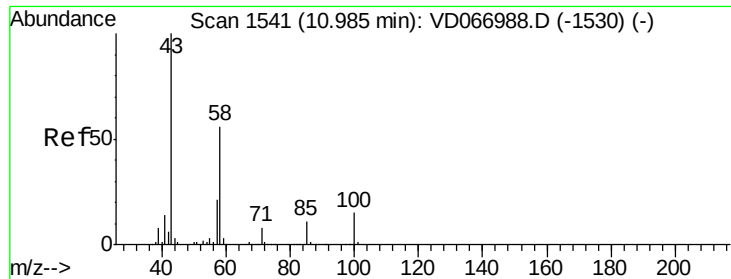
MMDadoda
 10/2/2020 3:13:19 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 105.108 ug/l
 RT: 9.94 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
63	100		
106	32.4	25.3	37.9





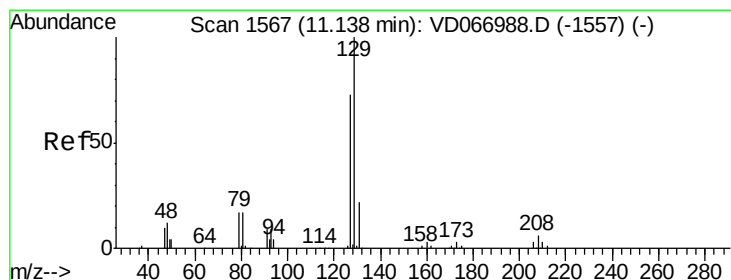
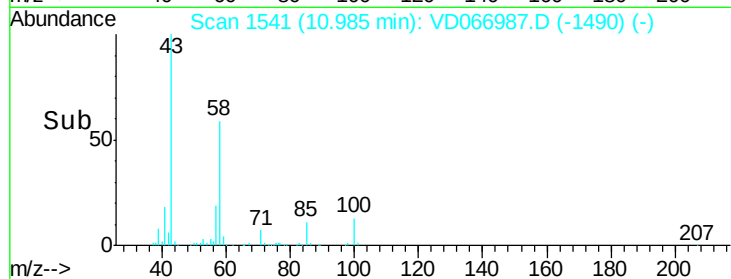
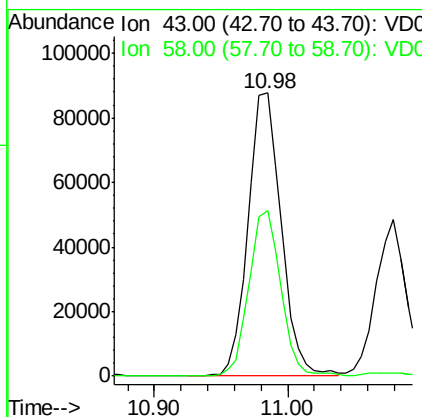
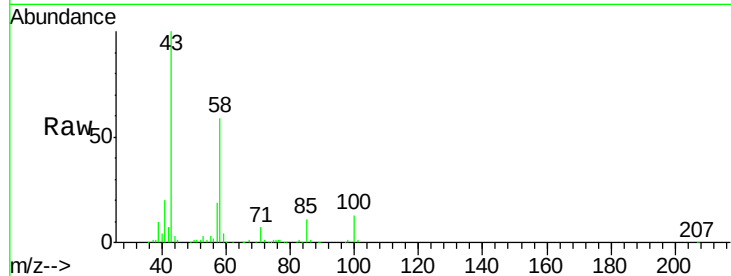
#59
2-Hexanone
Concen: 105.656 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 150068
Ion Ratio Lower Upper
43 100
58 56.3 28.3 84.9

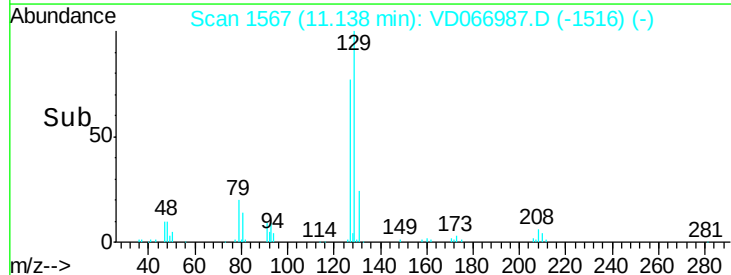
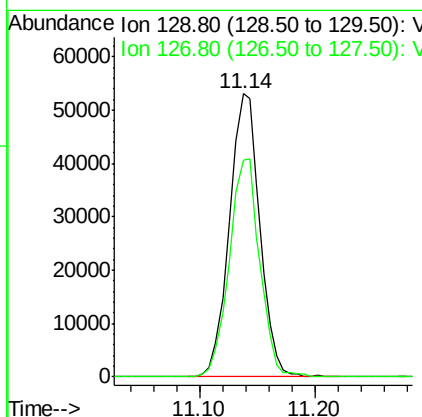
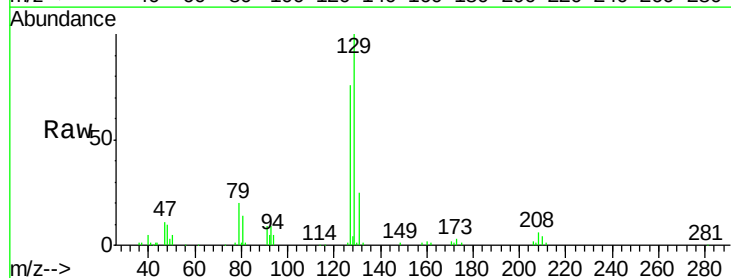
Manual Integrations
APPROVED

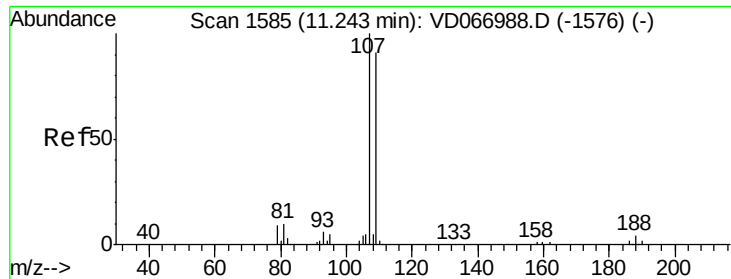
MMDadoda
10/2/2020 3:13:19 PM



#60
Dibromochloromethane
Concen: 20.798 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion: 129 Resp: 96775
Ion Ratio Lower Upper
129 100
127 77.2 37.4 112.1





#61

1,2-Dibromoethane

Concen: 20.776 ug/l

RT: 11.25 min Scan# 1586

Delta R.T. 0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 69681

Ion Ratio Lower Upper

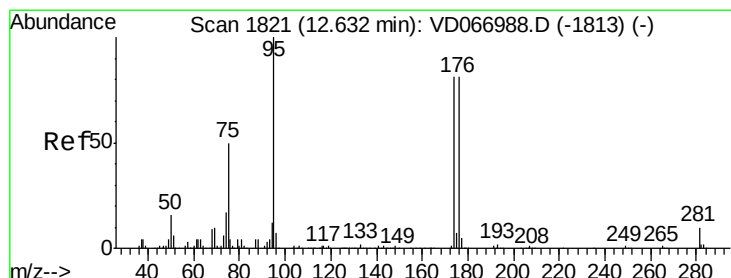
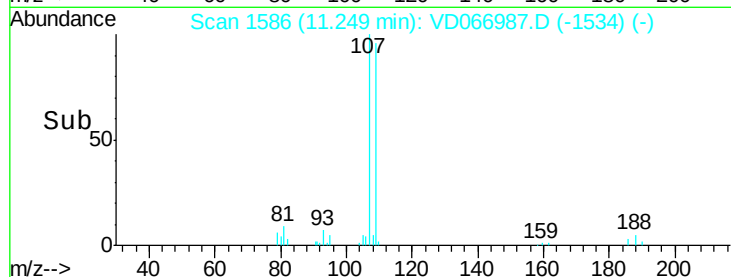
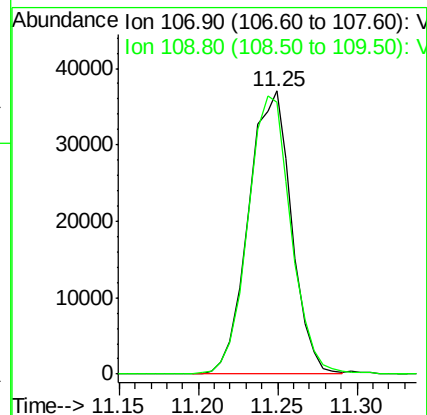
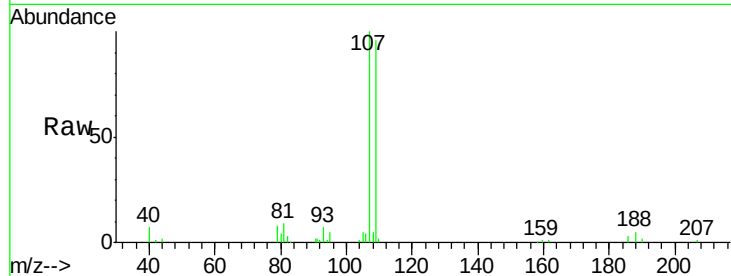
107 100

109 98.8 74.0 111.0

Manual Integrations
APPROVED

MMDadoda

10/2/2020 3:13:19 PM



#62

4-Bromofluorobenzene

Concen: 20.623 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

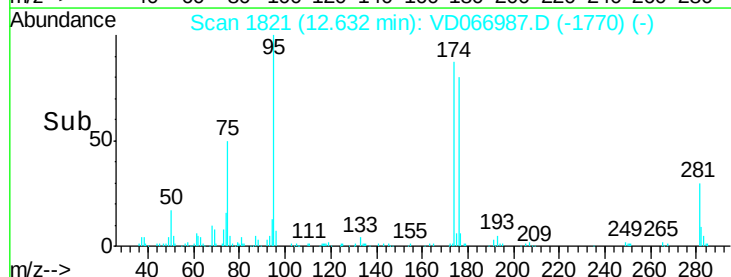
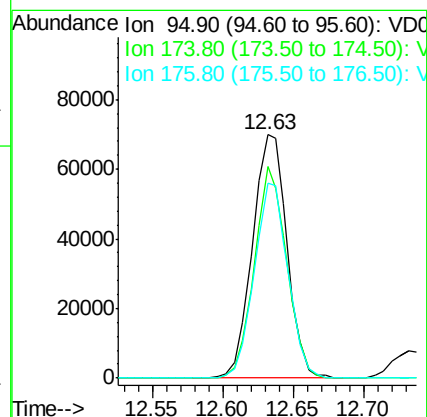
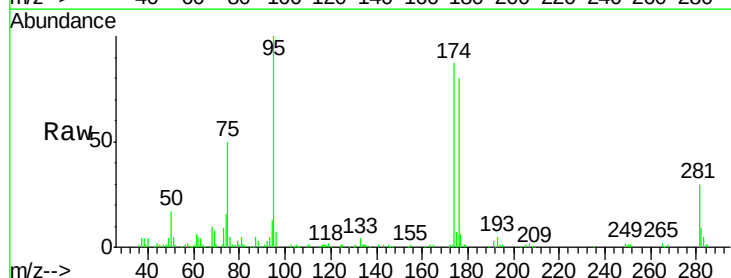
Tgt Ion: 95 Resp: 119952

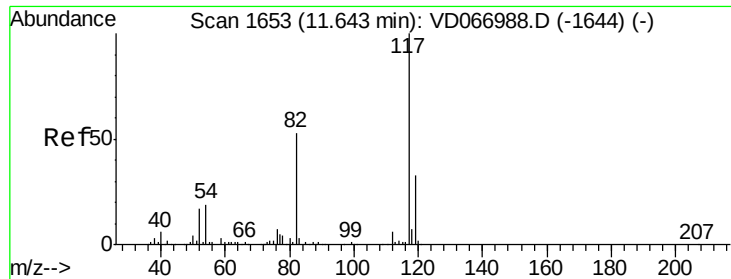
Ion Ratio Lower Upper

95 100

174 81.4 0.0 167.6

176 78.0 0.0 162.4





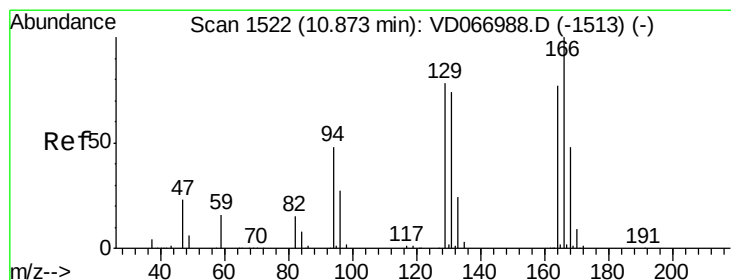
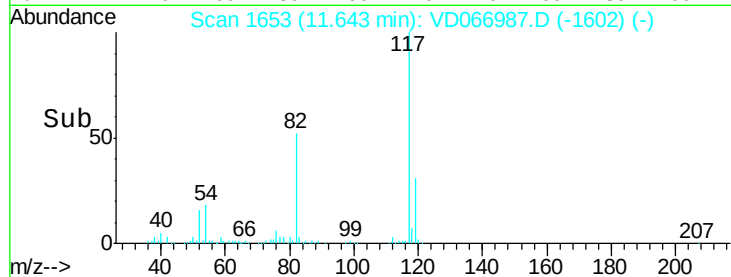
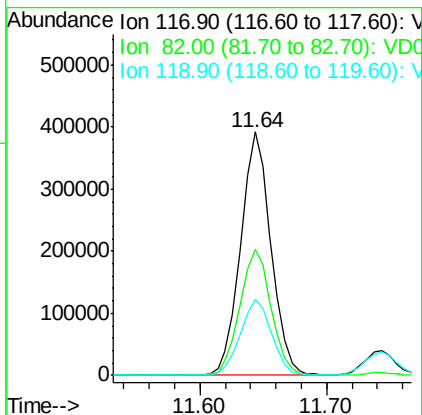
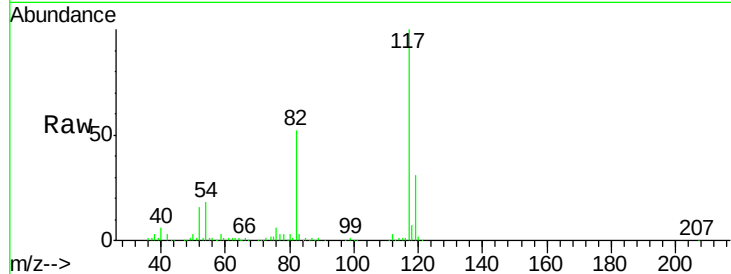
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.6	63.8
119	31.4	26.3	39.5

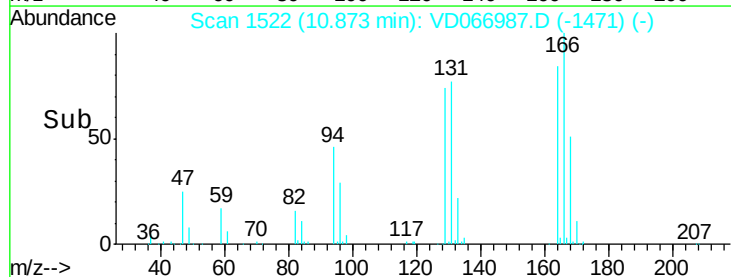
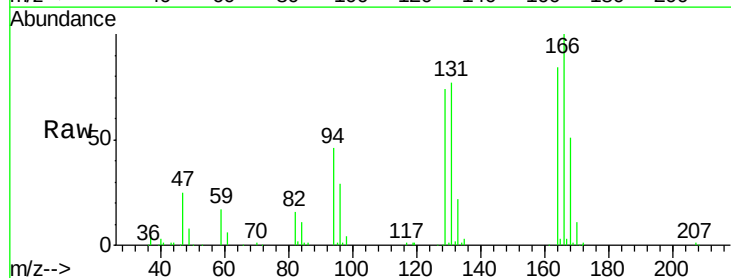
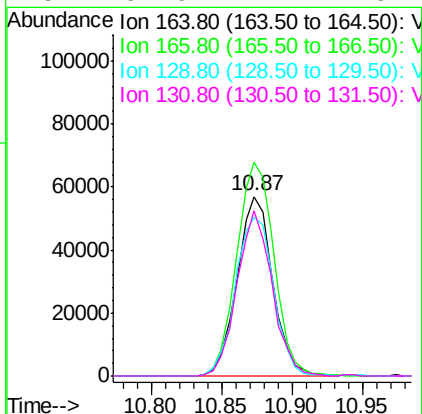
Manual Integrations
APPROVED

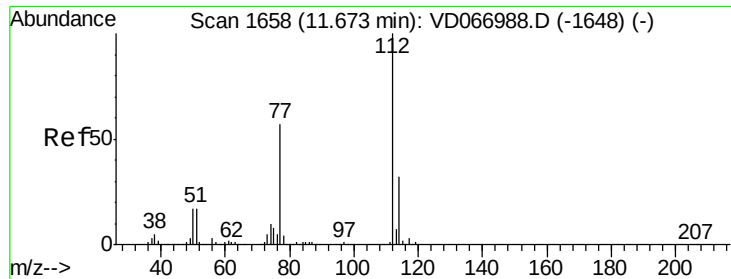
MMDadoda
10/2/2020 3:13:19 PM



#64
Tetrachloroethene
Concen: 21.230 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	118.9	104.4	156.6
129	88.0	81.3	121.9
131	91.6	77.1	115.7





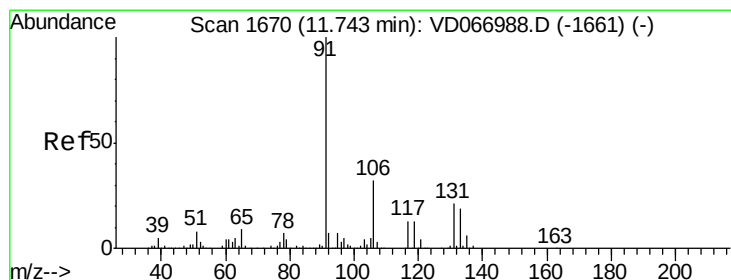
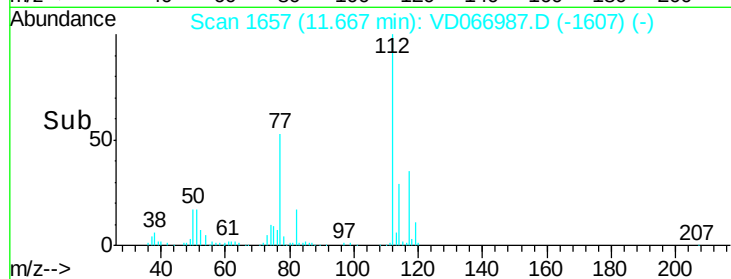
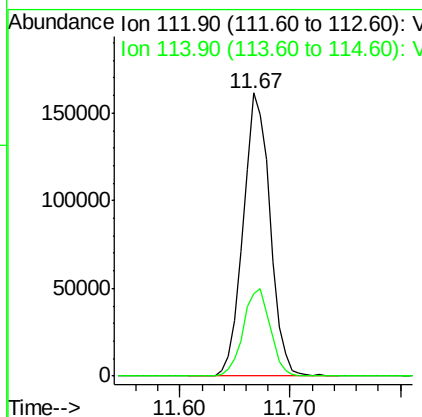
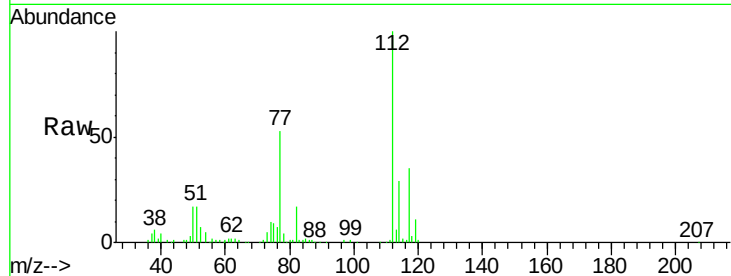
#65
Chlorobenzene
Concen: 21.329 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
112	100		
114	29.3	25.4	38.0

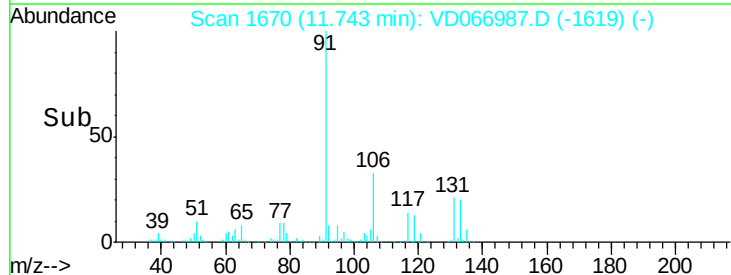
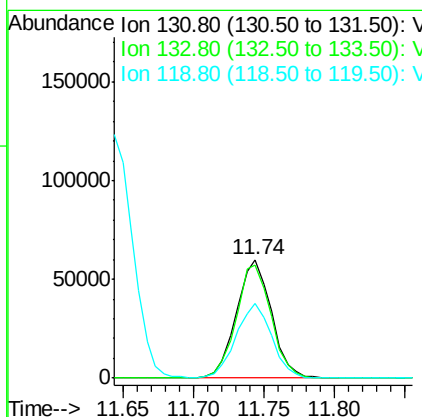
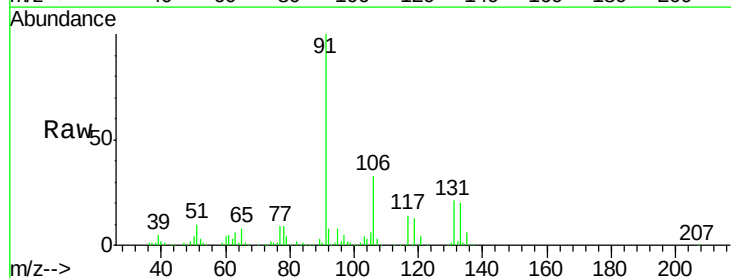
Manual Integrations
APPROVED

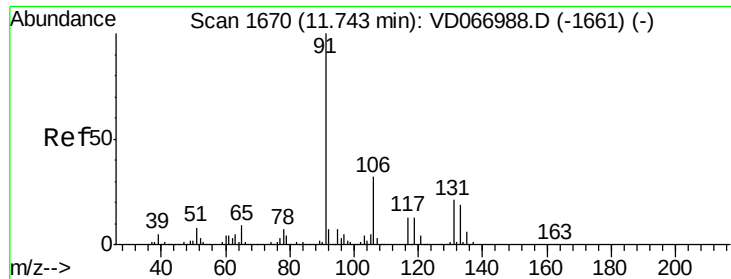
MMDadoda
10/2/2020 3:13:19 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 21.110 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.8	143.3
119	63.8	32.3	96.8





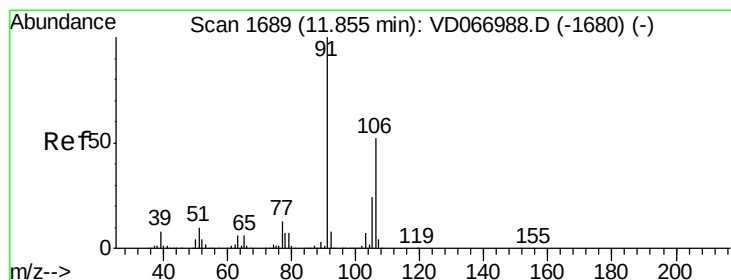
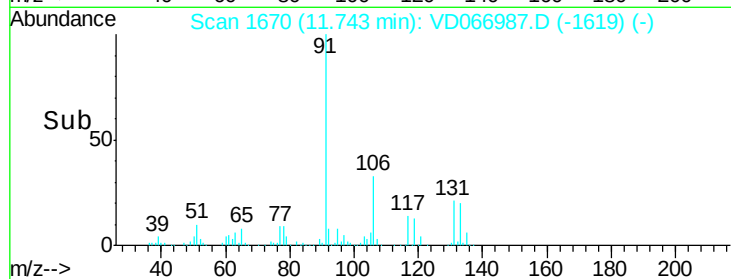
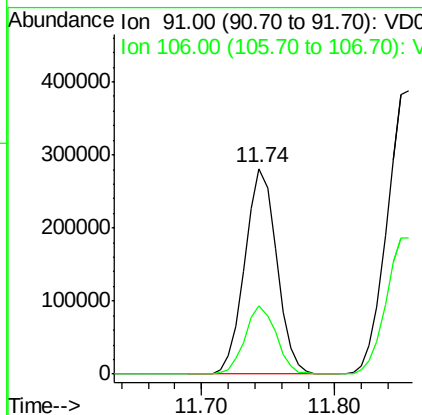
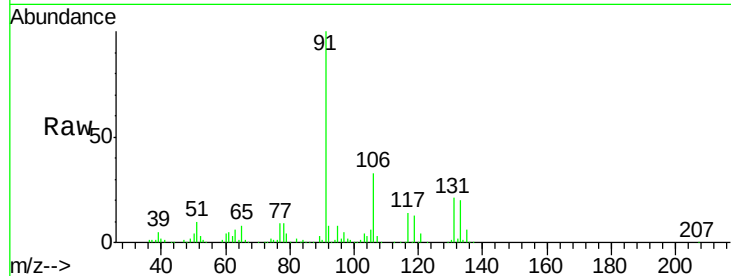
#67
Ethyl Benzene
Concen: 20.894 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 463565
Ion Ratio Lower Upper
91 100
106 33.4 25.4 38.2

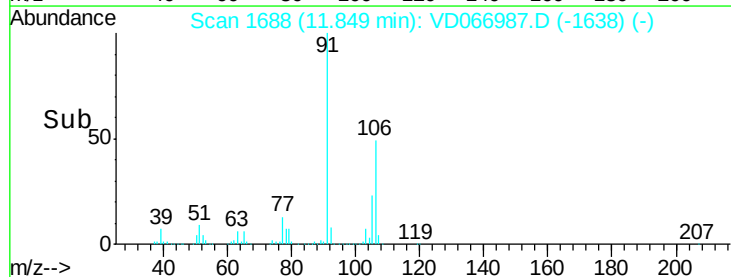
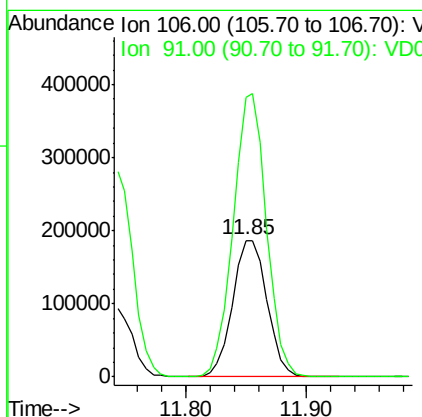
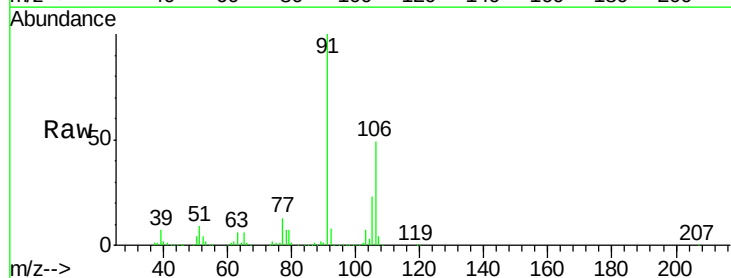
Manual Integrations
APPROVED

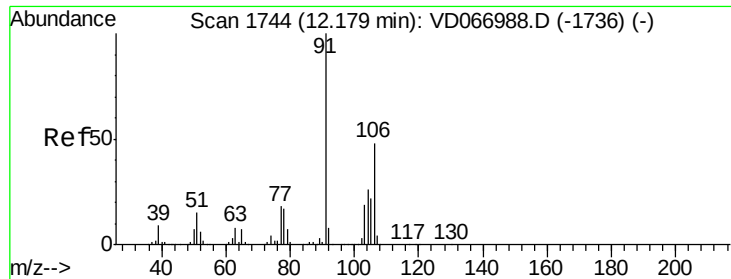
MMDadoda
10/2/2020 3:13:19 PM



#68
m/p-Xylenes
Concen: 42.870 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion: 106 Resp: 370666
Ion Ratio Lower Upper
106 100
91 199.2 158.4 237.6





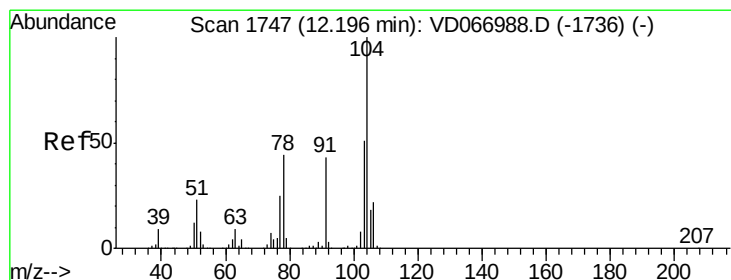
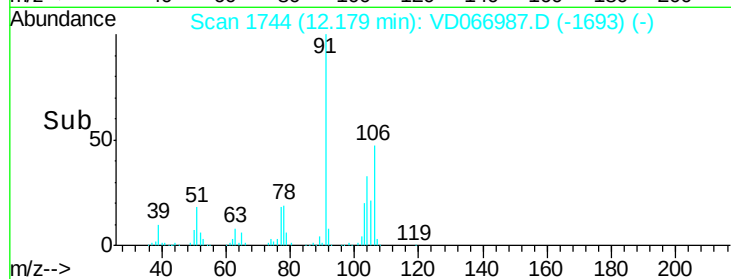
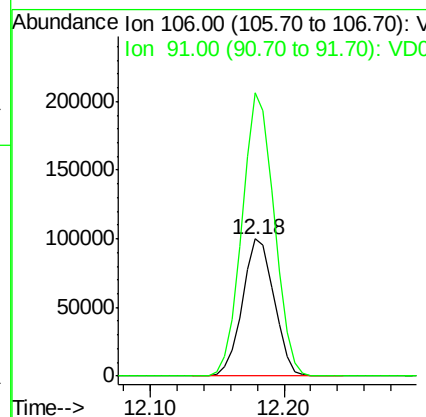
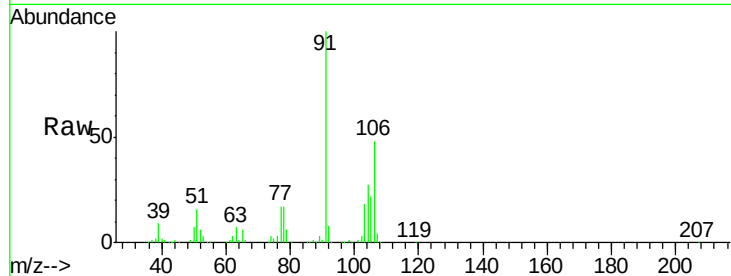
#69
o-Xylene
Concen: 21.283 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		164561		
91	208.3	102.4	307.2		

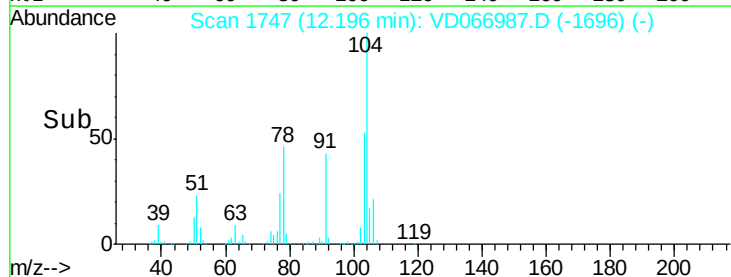
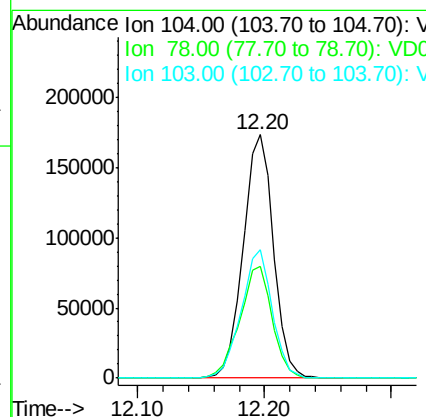
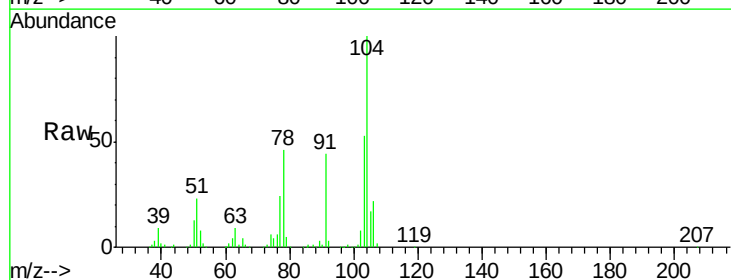
Manual Integrations
APPROVED

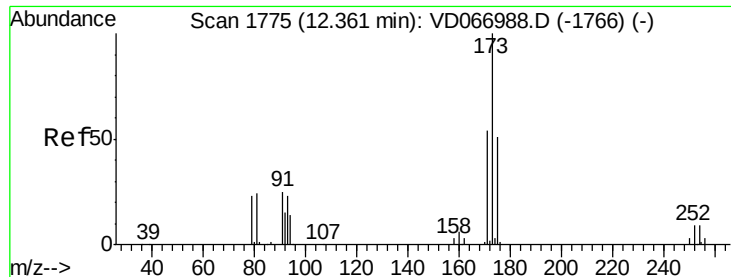
MMDadoda
10/2/2020 3:13:19 PM



#70
Styrene
Concen: 21.602 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		286810		
78	49.5	38.6	58.0		
103	54.2	43.4	65.0		





#71

Bromoform

Concen: 20.529 ug/l

RT: 12.36 min Scan# 1775

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 52487

Ion Ratio Lower Upper

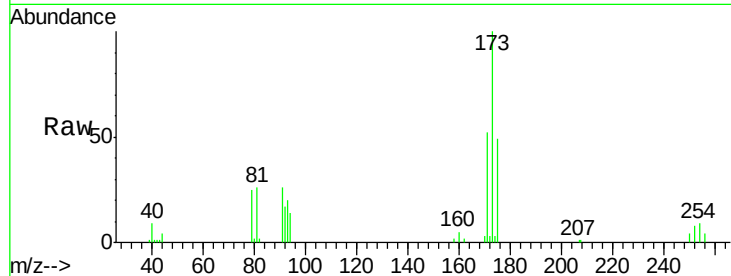
173 100

175 50.0 24.9 74.7

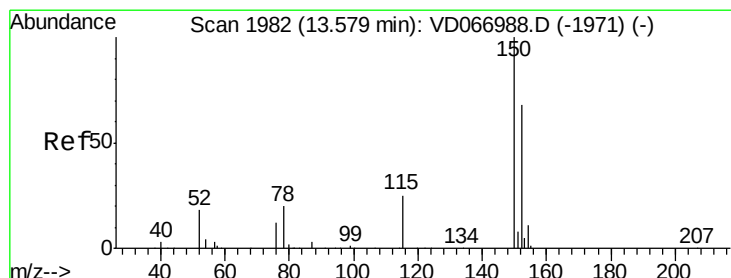
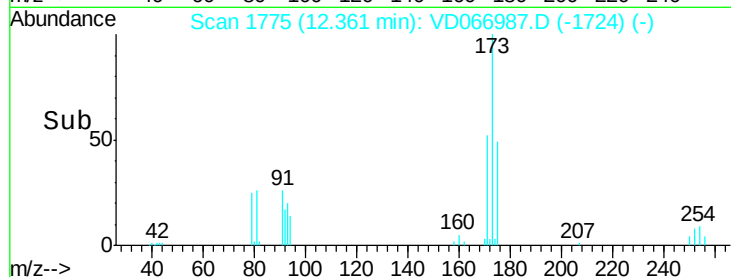
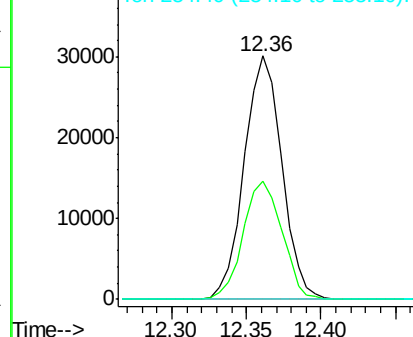
254 0.0 0.2 0.4#

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

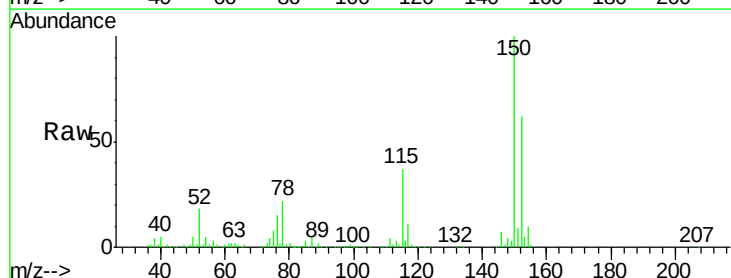
Tgt Ion:152 Resp: 317414

Ion Ratio Lower Upper

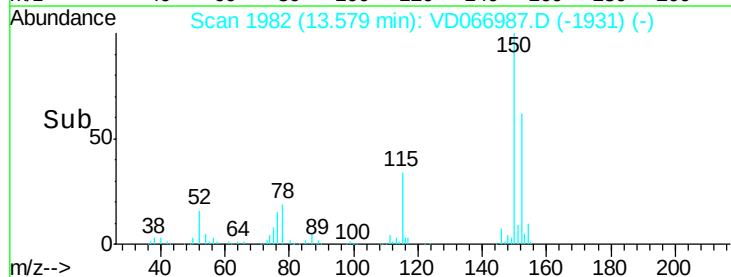
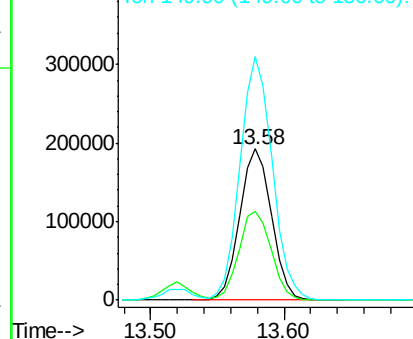
152 100

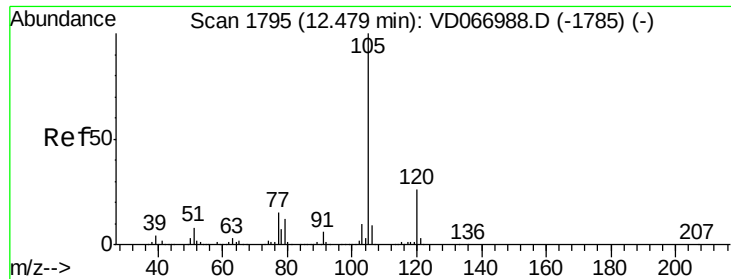
115 59.6 29.6 88.8

150 163.7 0.0 344.8



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





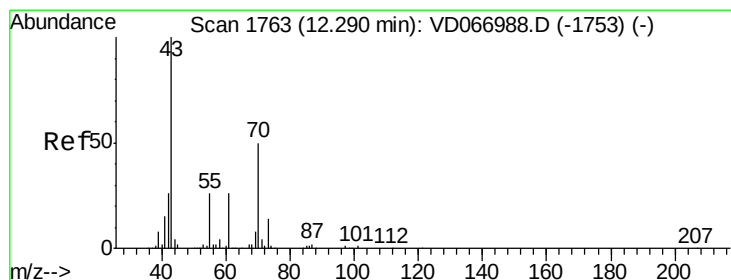
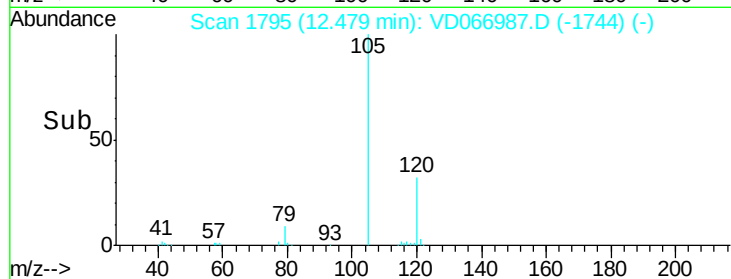
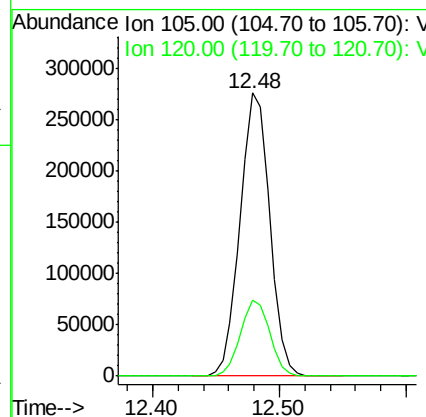
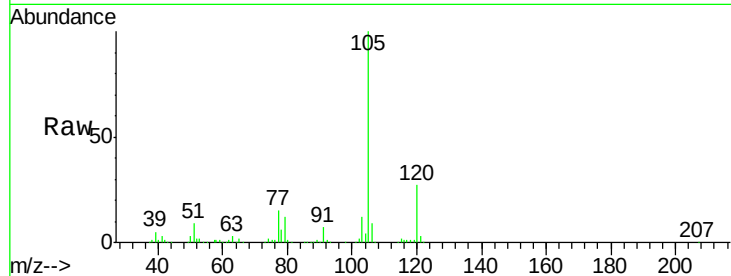
#73
Isopropylbenzene
Concen: 20.792 ug/l
RT: 12.48 min Scan# 1795
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	13.3	39.9

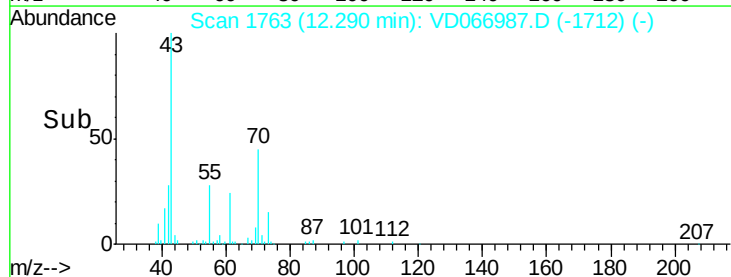
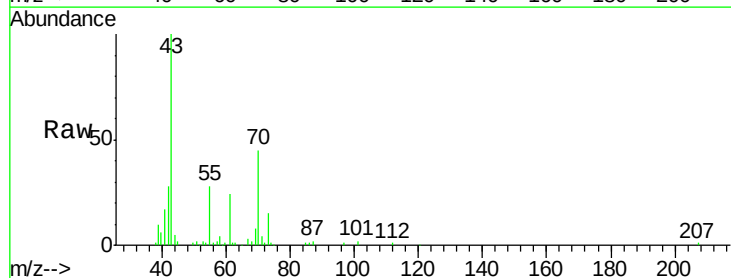
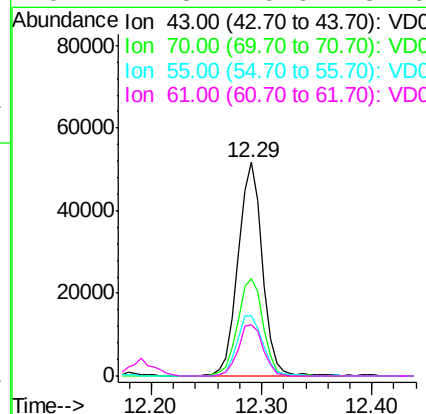
Manual Integrations
APPROVED

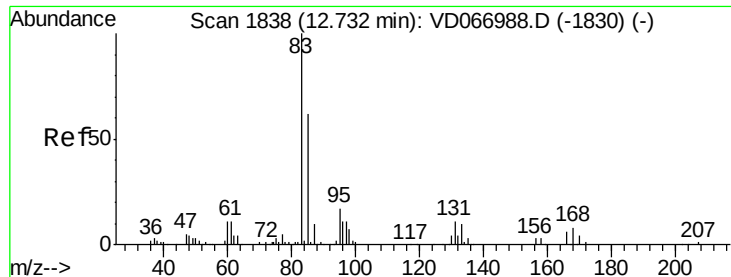
MMDadoda
10/2/2020 3:13:19 PM



#74
N-ethyl acetate
Concen: 20.762 ug/l
RT: 12.29 min Scan# 1763
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
43	100		
70	47.3	38.2	57.2
55	29.9	22.4	33.6
61	24.8	20.6	31.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.864 ug/l

RT: 12.73 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

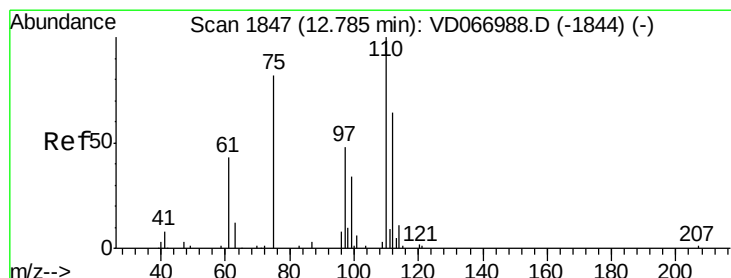
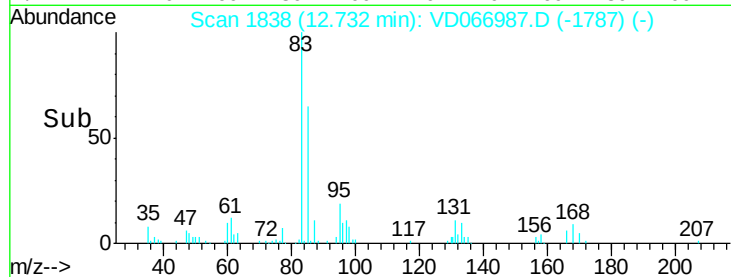
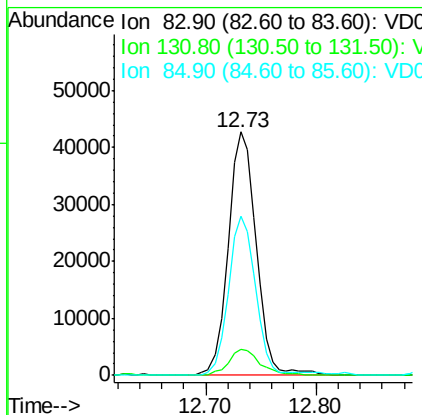
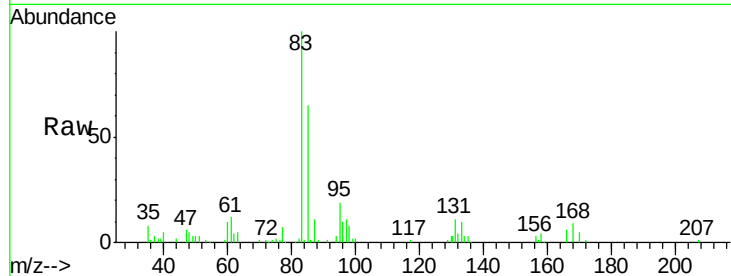
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	75764
Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.7	17.0
85	62.8	32.0	96.2

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#76

1,2,3-Trichloropropane

Concen: 22.291 ug/l m

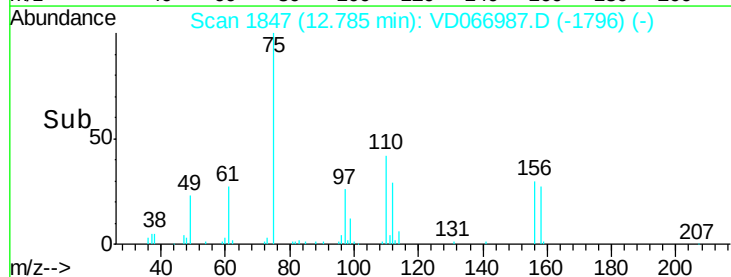
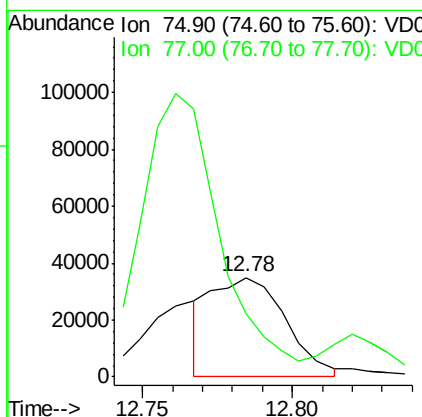
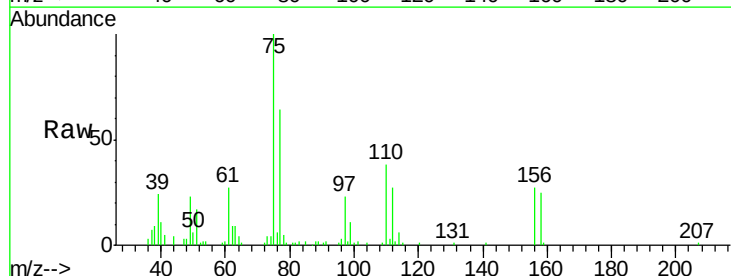
RT: 12.78 min Scan# 1847

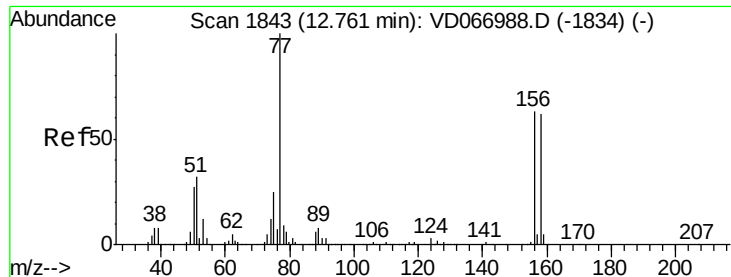
Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	75	Resp:	60308
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.907 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

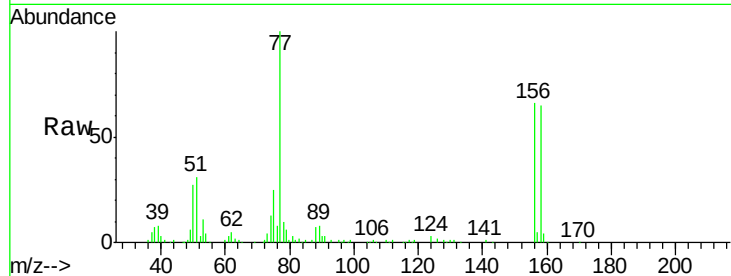
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	170.4	86.3	258.8
158	96.4	49.5	148.3

Manual Integrations
APPROVED

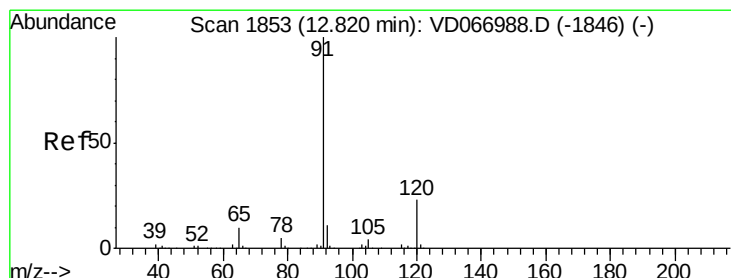
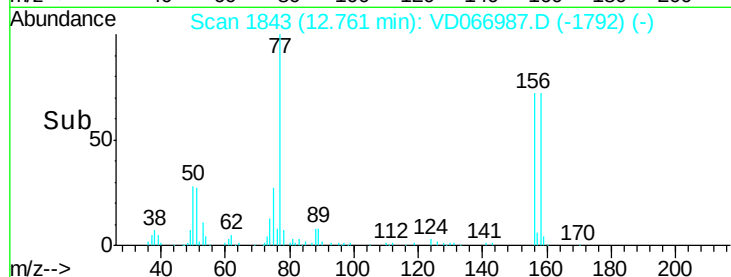
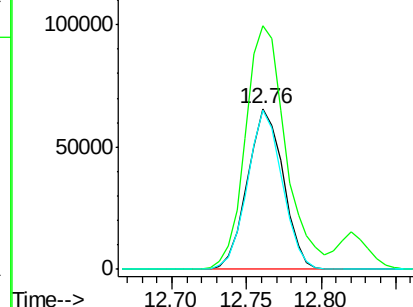
MMDadoda
10/2/2020 3:13:19 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 21.098 ug/l

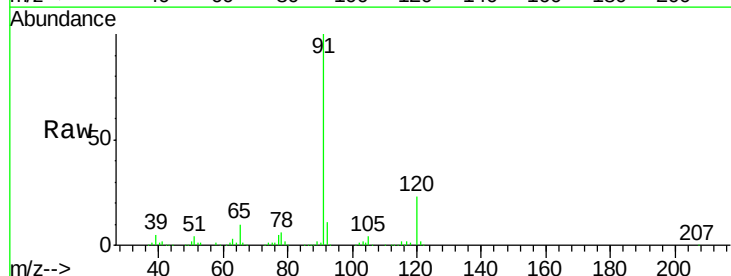
RT: 12.82 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VD066987.D

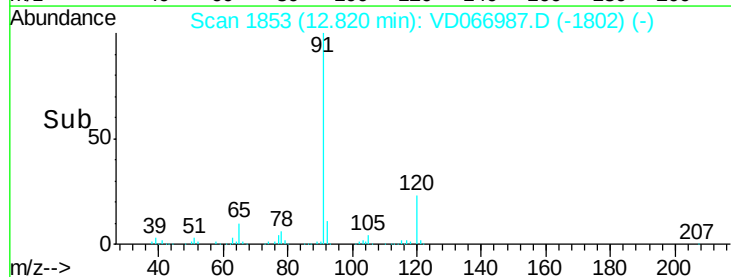
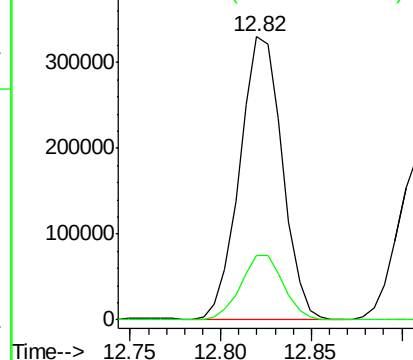
Acq: 01 Oct 2020 12:20

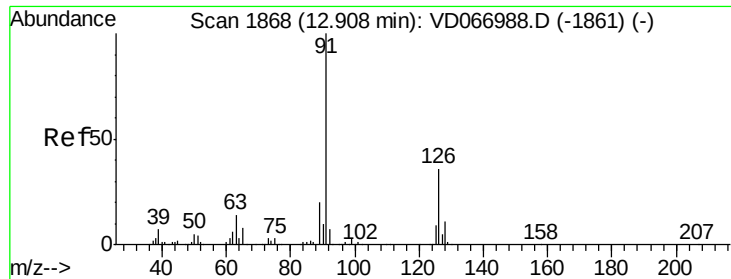
Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.6	34.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





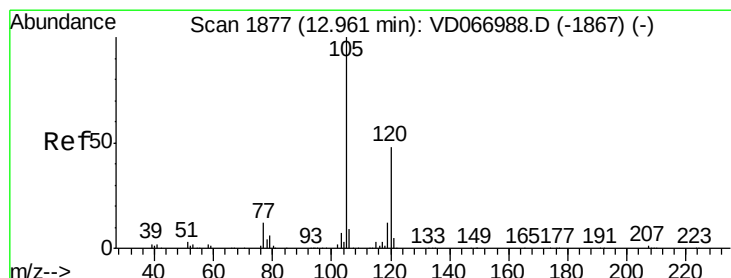
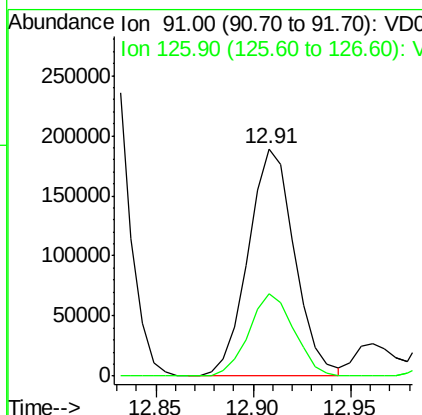
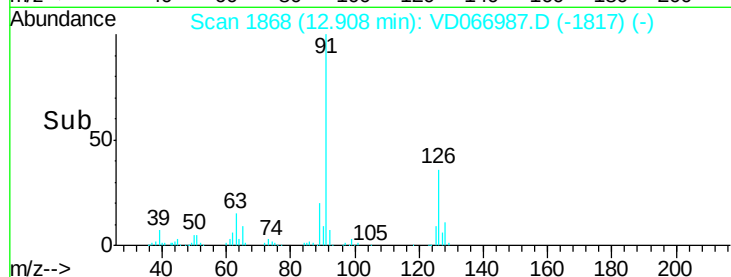
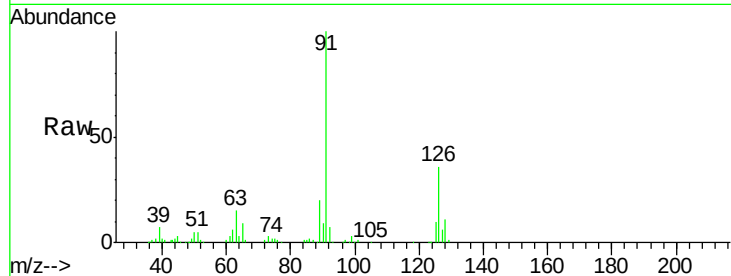
#79
2-Chlorotoluene
Concen: 21.269 ug/l
RT: 12.91 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 309962
Ion Ratio Lower Upper
91 100
126 35.3 17.5 52.6

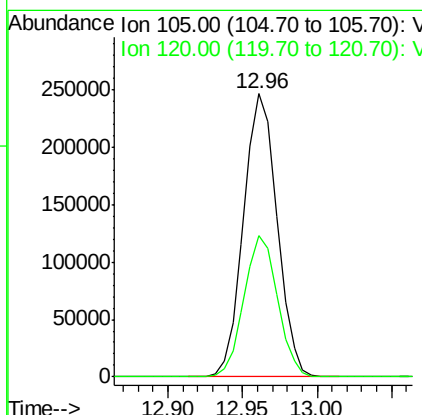
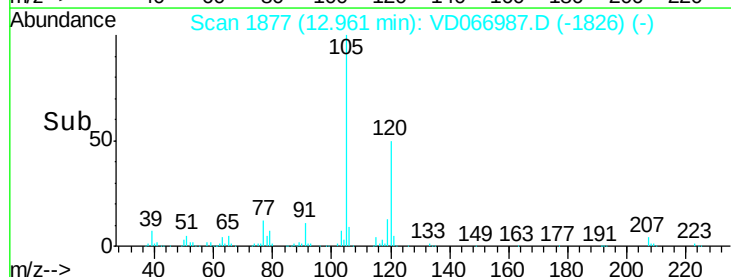
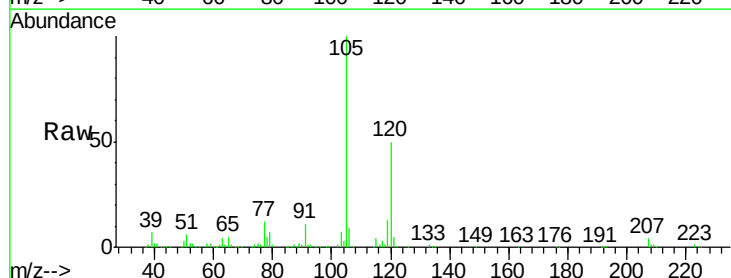
Manual Integrations
APPROVED

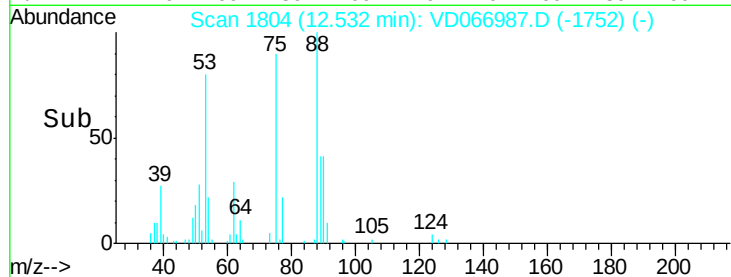
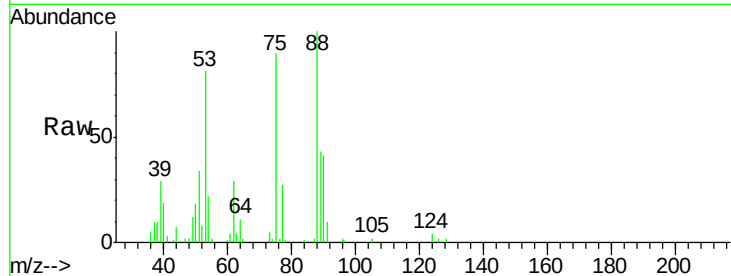
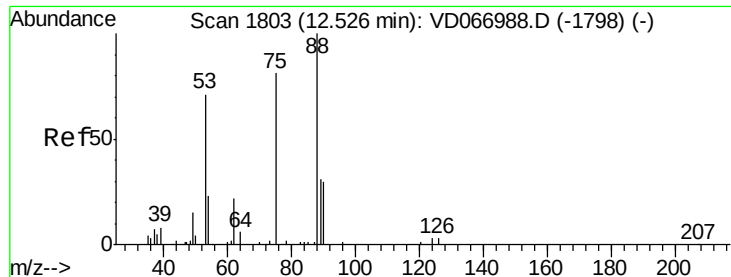
MMDadoda
10/2/2020 3:13:19 PM



#80
1,3,5-Trimethylbenzene
Concen: 21.107 ug/l
RT: 12.96 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion: 105 Resp: 384355
Ion Ratio Lower Upper
105 100
120 50.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 19.933 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.01 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Instrument :

MSVOA_D

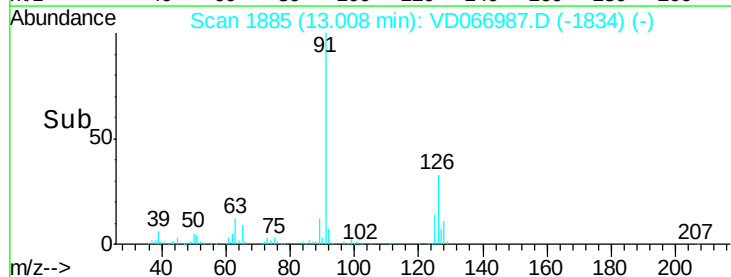
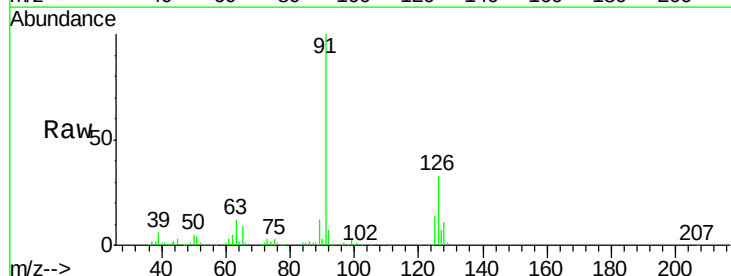
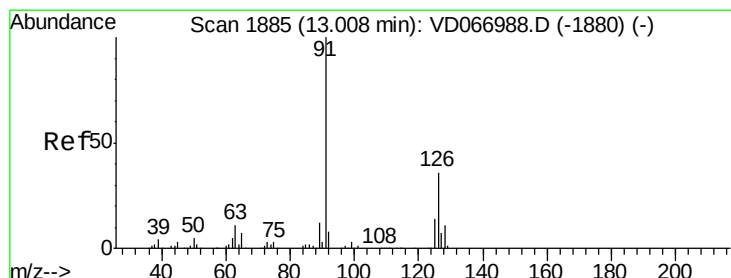
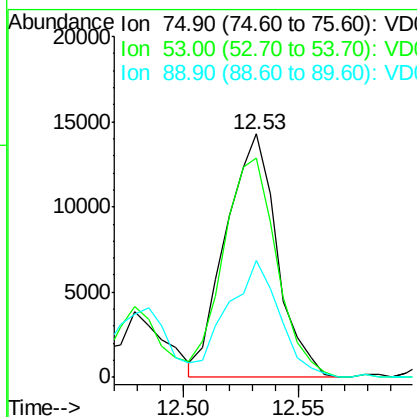
ClientSampleId :

VSTDIC020

Tot Ion:	75	Resp:	22105
Ion Ratio	Lower	Upper	
75	100		
53	93.6	73.8	110.6
89	48.6	38.9	58.3

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#82

4-Chlorotoluene

Concen: 21.295 ug/l

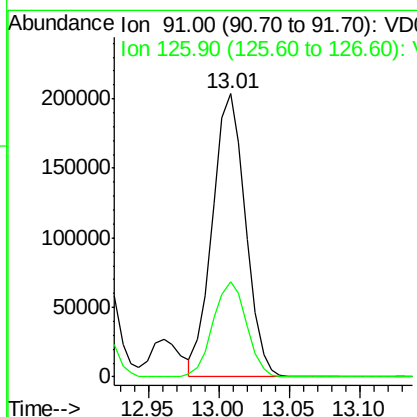
RT: 13.01 min Scan# 1885

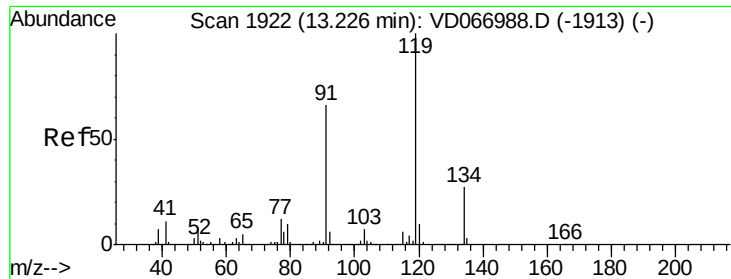
Delta R.T. 0.00 min

Lab File: VD066987.D

Acq: 01 Oct 2020 12:20

Tgt Ion:	91	Resp:	330195
Ion Ratio	Lower	Upper	
91	100		
126	34.3	17.5	52.5





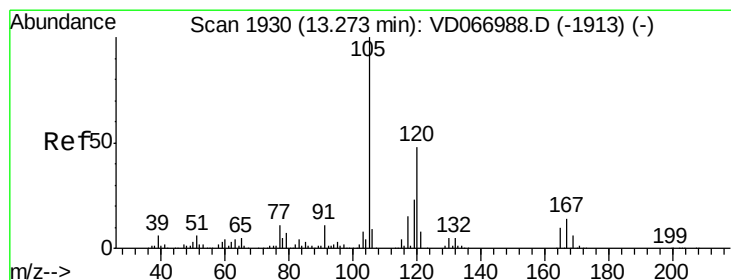
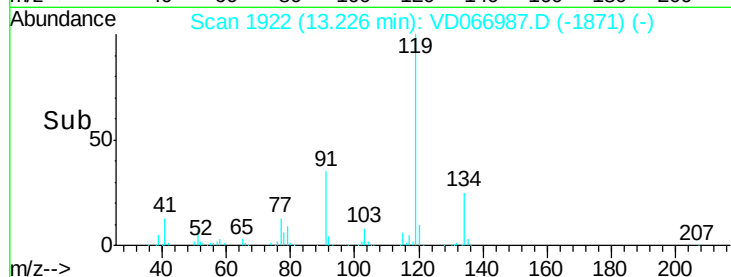
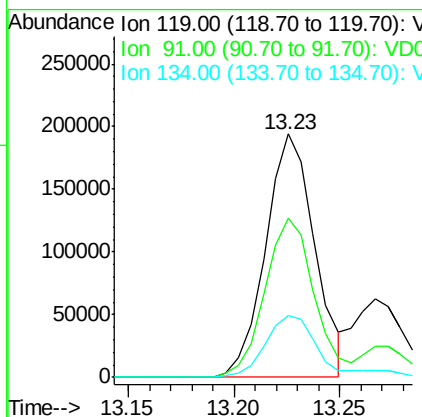
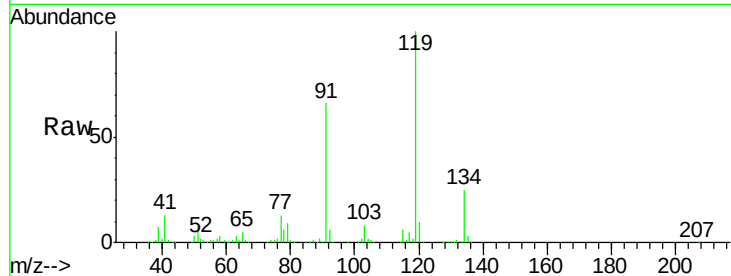
#83
 tert-Butylbenzene
 Concen: 20.426 ug/l
 RT: 13.23 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	313225		
91	66.2		32.8	98.3
134	28.3		13.9	41.7

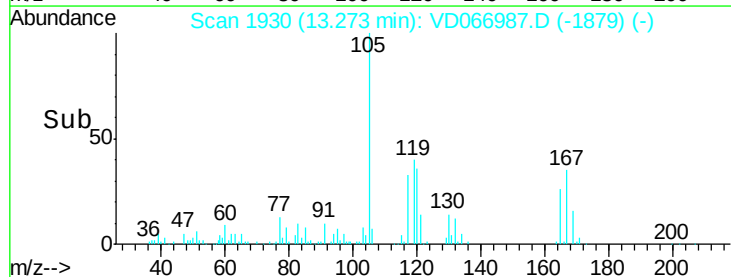
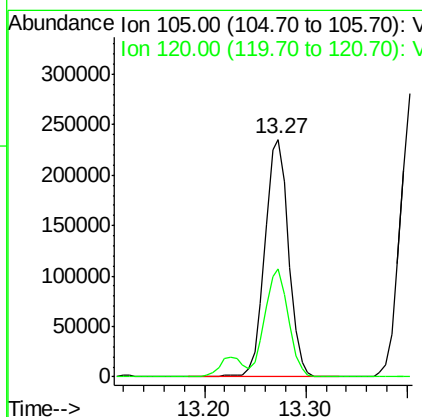
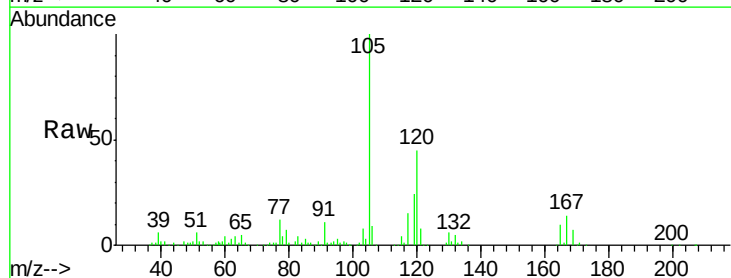
Manual Integrations
 APPROVED

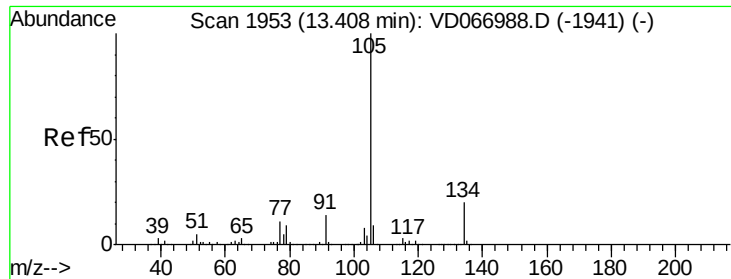
MMDadoda
 10/2/2020 3:13:19 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 21.279 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	386701		
120	44.9		23.3	69.8





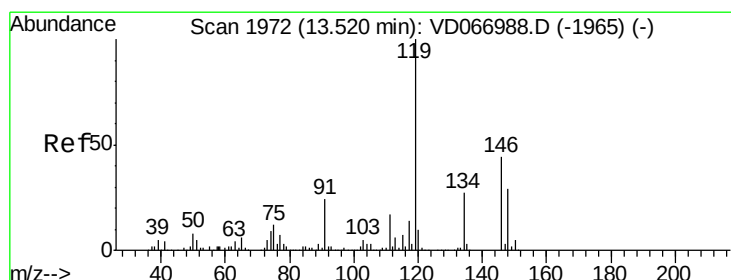
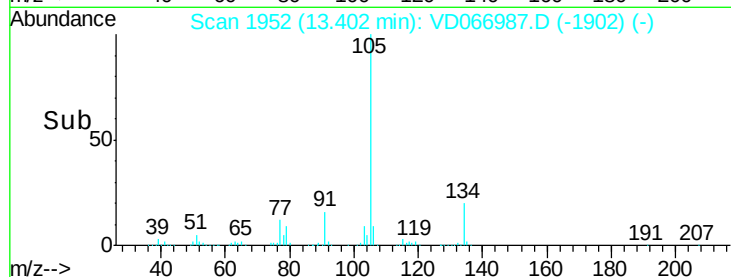
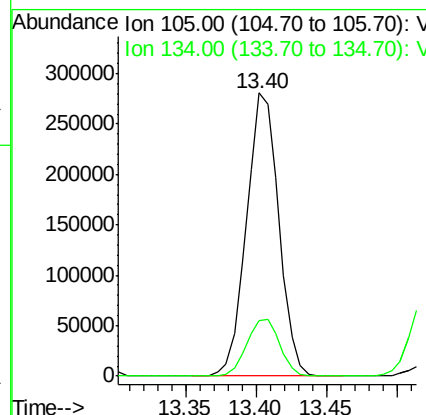
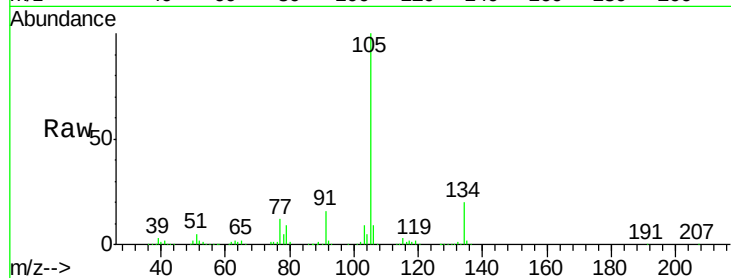
#85
 sec-Butylbenzene
 Concen: 20.844 ug/l
 RT: 13.40 min Scan# 1952
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.6	10.3	30.8

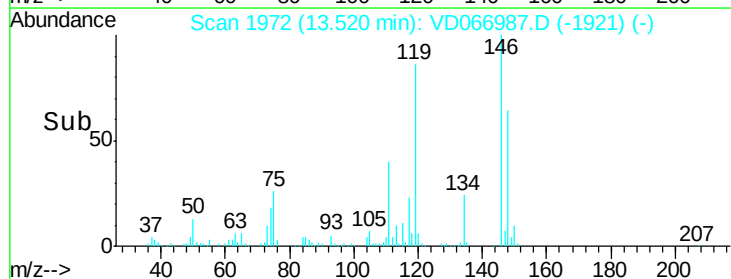
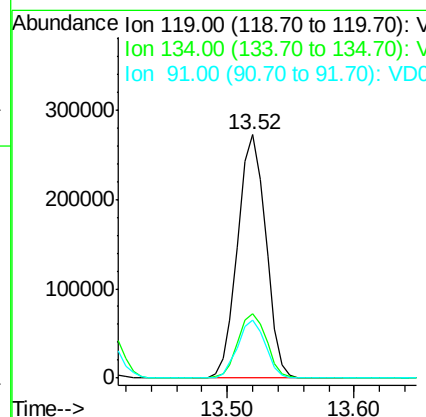
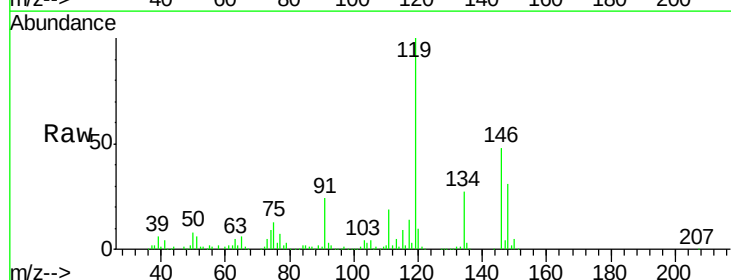
Manual Integrations
 APPROVED

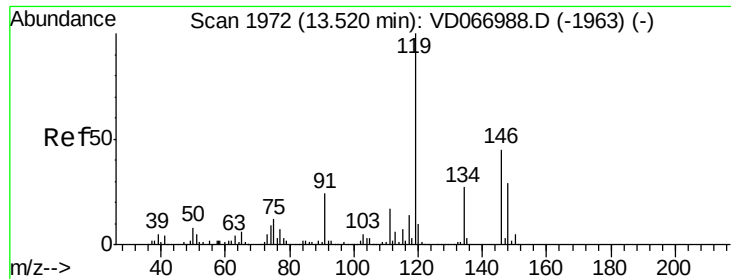
MMDadoda
 10/2/2020 3:13:19 PM



#86
 p-Isopropyltoluene
 Concen: 20.992 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.1	39.1
91	23.2	11.7	35.1





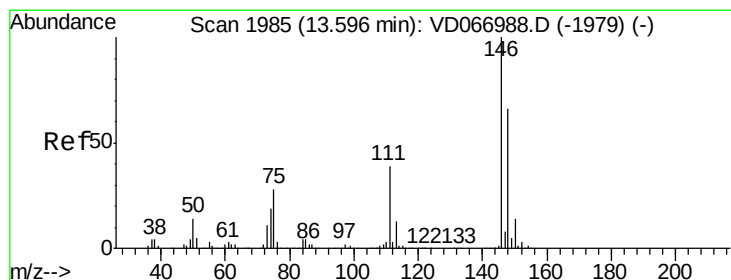
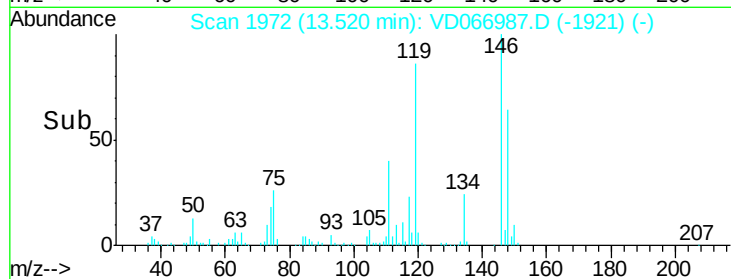
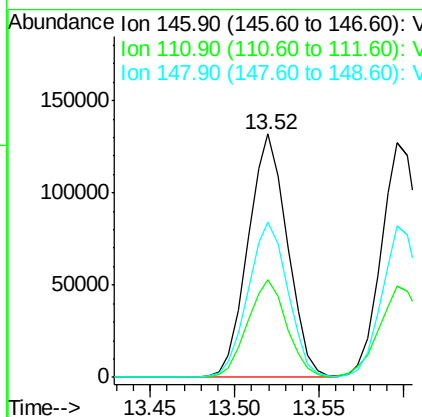
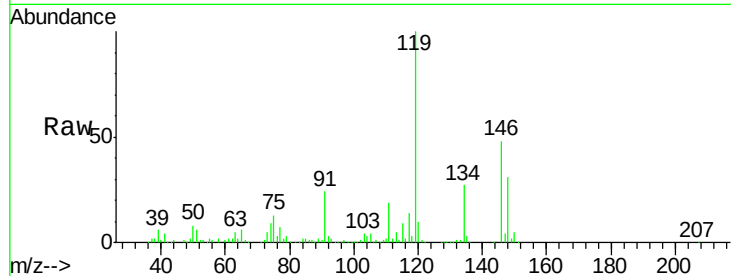
#87
 1,3-Dichlorobenzene
 Concen: 21.119 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	214077		
111	39.8	20.0	60.0	
148	64.8	31.9	95.9	

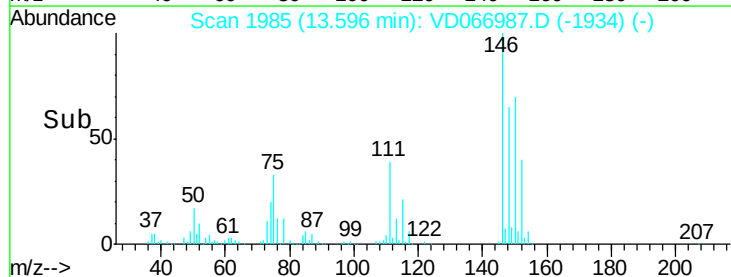
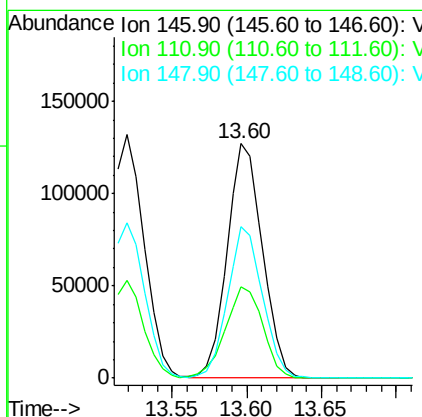
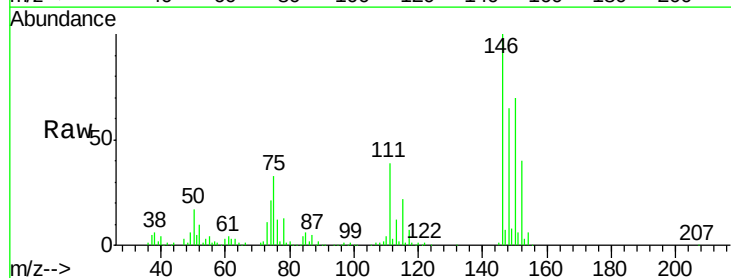
Manual Integrations
 APPROVED

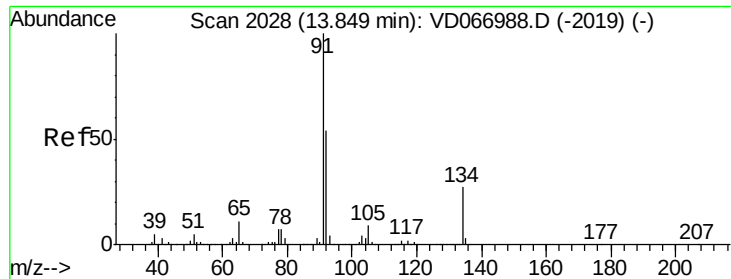
MMDadoda
 10/2/2020 3:13:19 PM



#88
 1,4-Dichlorobenzene
 Concen: 20.728 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. 0.00 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	210093		
111	41.3	19.6	58.7	
148	63.8	32.6	97.7	





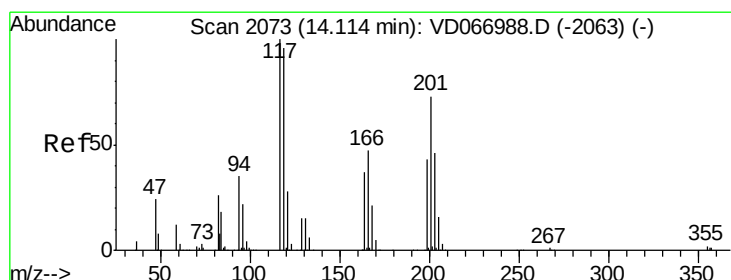
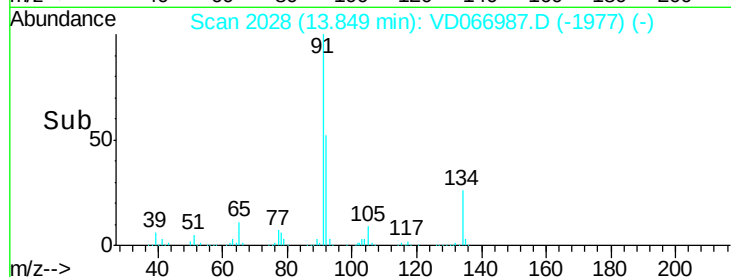
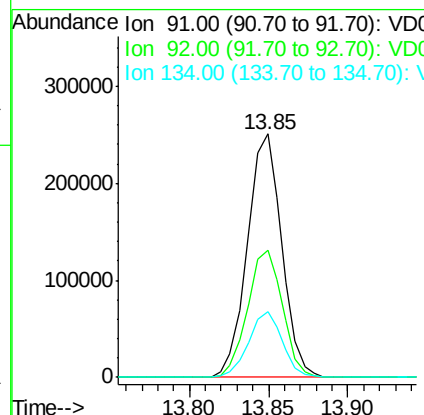
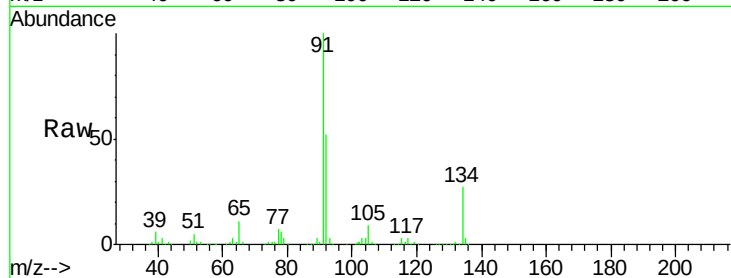
#89
n-Butylbenzene
Concen: 20.641 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.0	27.1	81.2
134	26.5	13.6	40.8

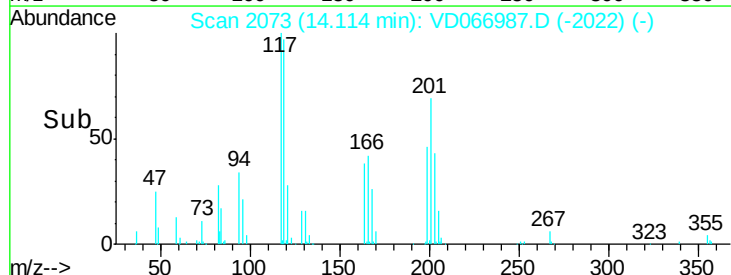
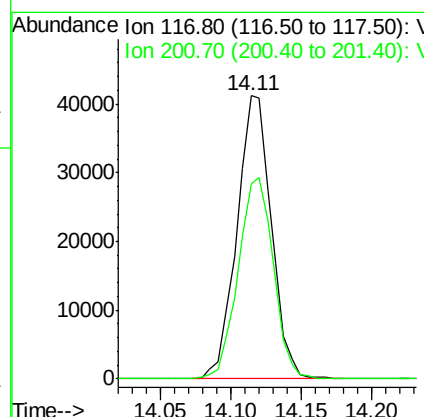
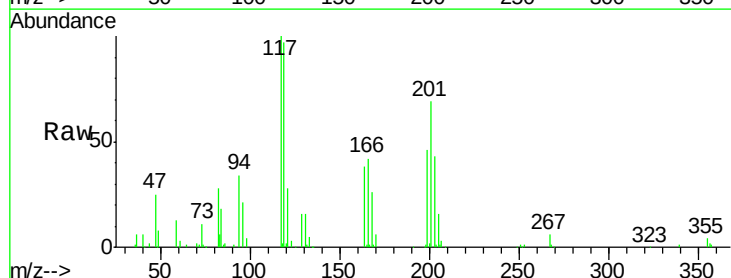
Manual Integrations
APPROVED

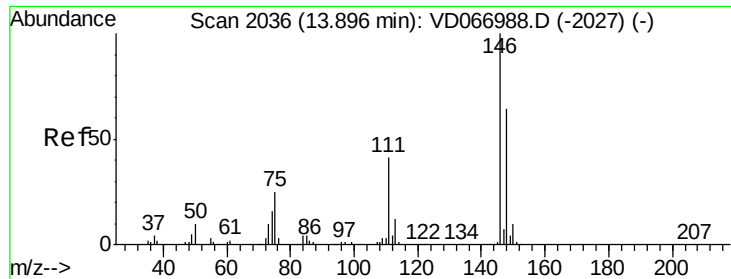
MMDadoda
10/2/2020 3:13:19 PM



#90
Hexachloroethane
Concen: 19.965 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
117	100		
201	72.9	37.0	110.9





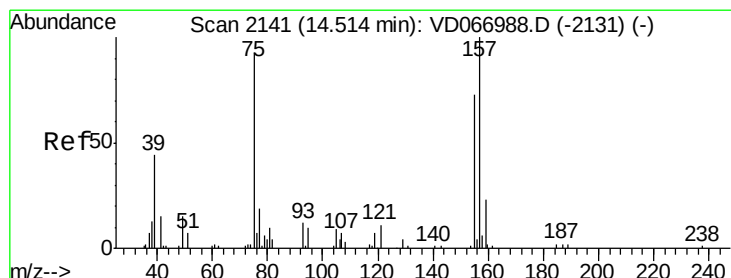
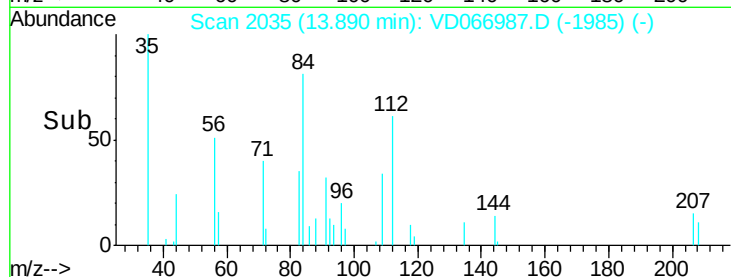
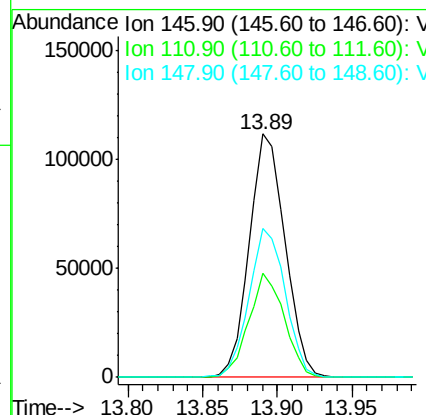
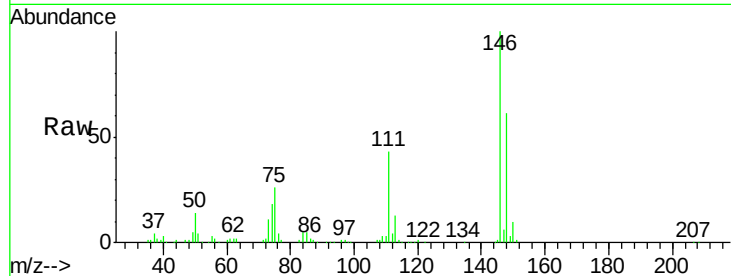
#91
 1,2-Dichlorobenzene
 Concen: 20.876 ug/l
 RT: 13.89 min Scan# 2035
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.9	62.7
148	61.9	32.3	96.9

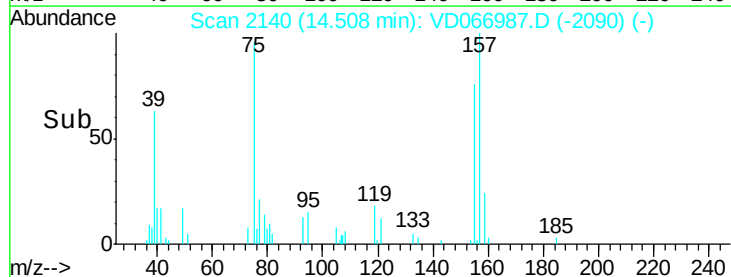
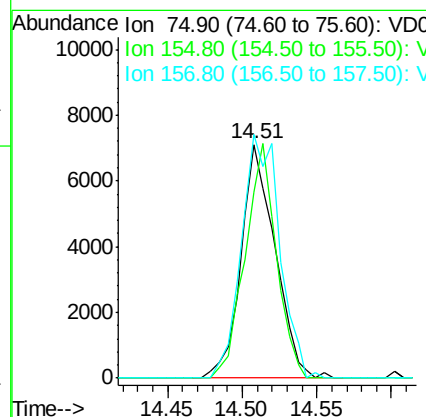
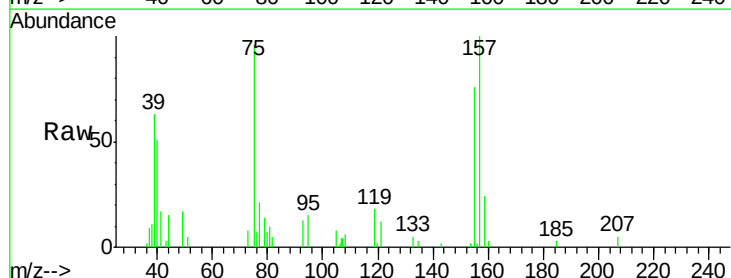
Manual Integrations
 APPROVED

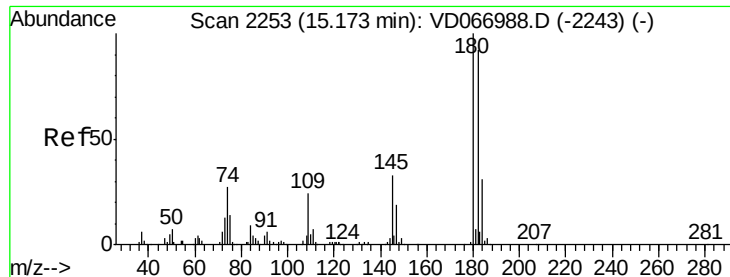
MMDadoda
 10/2/2020 3:13:19 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.198 ug/l
 RT: 14.51 min Scan# 2140
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	91.6	45.2	135.6
157	117.1	56.3	168.8





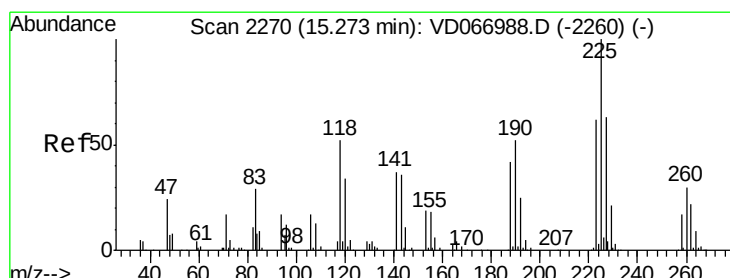
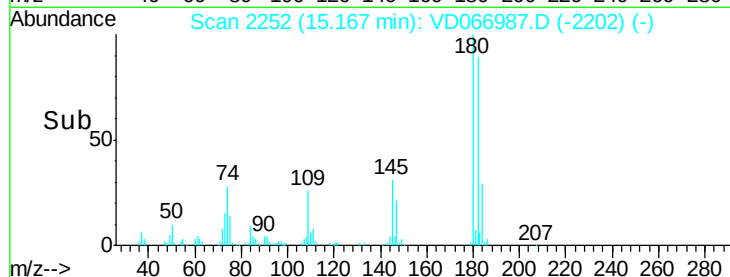
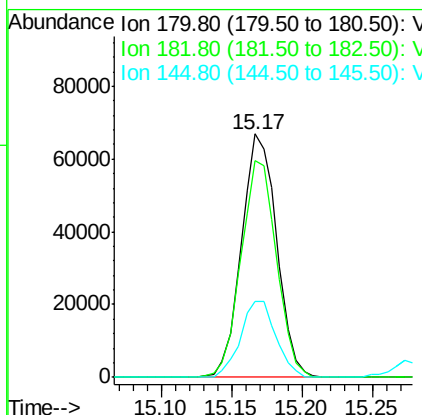
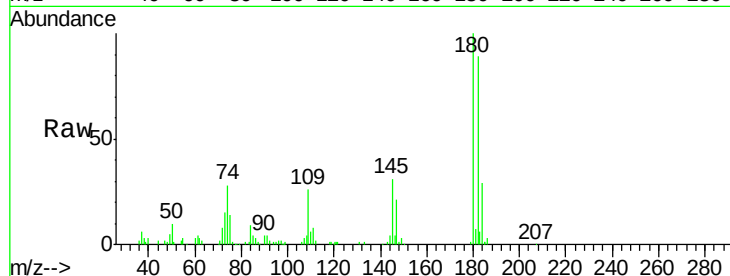
#93
 1,2,4-Trichlorobenzene
 Concen: 20.397 ug/l
 RT: 15.17 min Scan# 2252
 Delta R.T. -0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	116801		
182	89.8	47.3	142.0	
145	31.6	16.4	49.1	

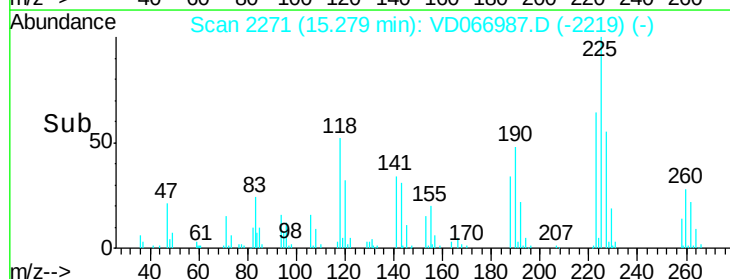
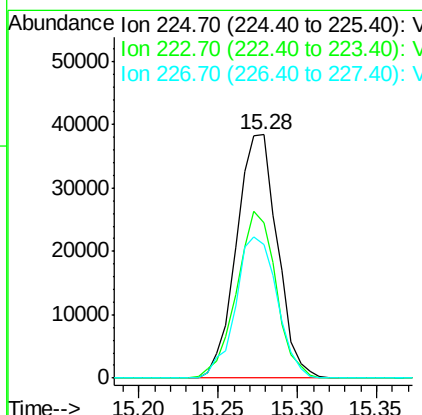
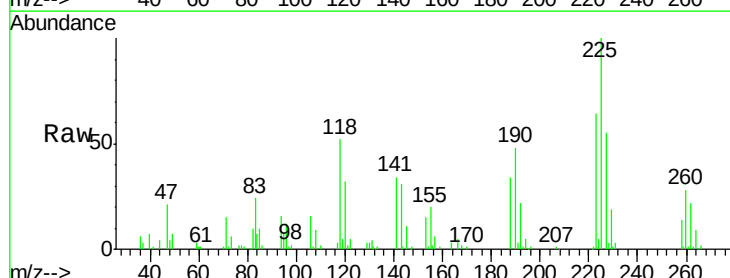
Manual Integrations
 APPROVED

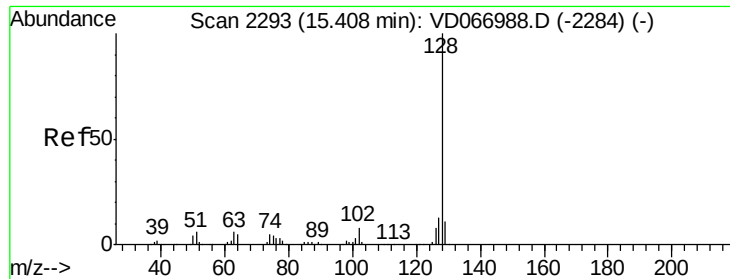
MMDadoda
 10/2/2020 3:13:19 PM



#94
 Hexachlorobutadiene
 Concen: 19.572 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. 0.01 min
 Lab File: VD066987.D
 Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	68832		
223	66.0	32.4	97.0	
227	58.9	31.6	95.0	





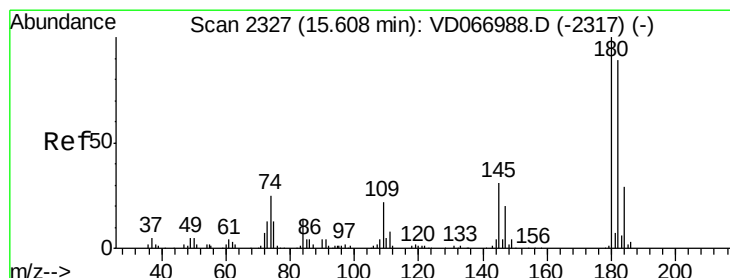
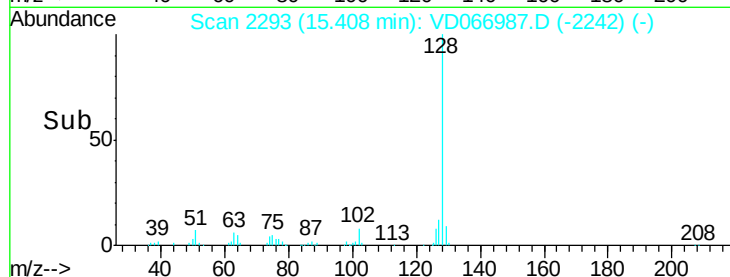
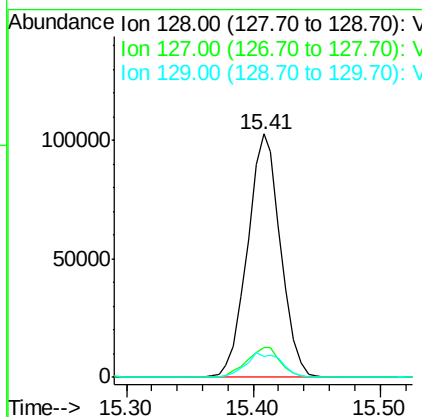
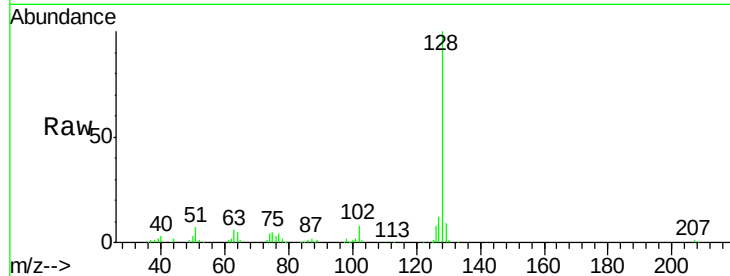
#95
Naphthalene
Concen: 19.434 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	185625		
127	12.6		10.3	15.5
129	11.1		8.6	13.0

Manual Integrations
APPROVED

MMDadoda
10/2/2020 3:13:19 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.347 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. -0.01 min
Lab File: VD066987.D
Acq: 01 Oct 2020 12:20

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	101143		
182	91.0		46.4	139.1
145	31.7		16.6	49.7

