

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082018\
 Data File : VD059832.D
 Acq On : 20 Aug 2018 15:35
 Operator : JC/SY
 Sample : VSTDICV050
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ICSV082018

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM

Quant Time: Aug 21 04:41:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 21 04:20:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.60	168	1152754	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.64	114	1637383	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	1261803	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	577122	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.97	65	436487	47.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.62%	
35) Dibromofluoromethane	5.50	113	615933	50.86	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.72%	
50) Toluene-d8	8.67	98	1631180	49.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.90%	
62) 4-Bromofluorobenzene	11.91	95	624395	49.83	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.33	85	455535	45.88	ug/l	96
3) Chloromethane	1.47	50	401768	47.77	ug/l	100
4) Vinyl Chloride	1.54	62	318738	47.29	ug/l	99
5) Bromomethane	1.77	94	59314	66.96	ug/l	90
6) Chloroethane	1.86	64	91921	60.27	ug/l	97
7) Trichlorofluoromethane	2.07	101	340600	50.19	ug/l	99
8) Diethyl Ether	2.31	74	72716	47.94	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.53	101	216473	50.16	ug/l	97
10) Methyl Iodide	2.67	142	224020	45.10	ug/l	99
11) Tert butyl alcohol	3.22	59	88759	260.26	ug/l	98
12) 1,1-Dichloroethene	2.52	96	165277	54.69	ug/l	91
13) Acrolein	2.44	56	92143	263.75	ug/l	98
14) Allyl chloride	2.88	41	424725	47.06	ug/l	99
15) Acrylonitrile	3.33	53	351230	222.51	ug/l	98
16) Acetone	2.58	43	427367	276.38	ug/l	98
17) Carbon Disulfide	2.73	76	584418	51.24	ug/l	98
18) Methyl Acetate	2.90	43	156323	50.01	ug/l	99
19) Methyl tert-butyl Ether	3.37	73	925183	46.38	ug/l	99
20) Methylene Chloride	3.03	84	188925	48.81	ug/l	95
21) trans-1,2-Dichloroethene	3.35	96	452366	47.50	ug/l	99
22) Diisopropyl ether	4.03	45	2152718	46.69	ug/l	97
23) Vinyl Acetate	3.97	43	5880423	237.44	ug/l	100
24) 1,1-Dichloroethane	3.93	63	957654	47.24	ug/l	100
25) 2-Butanone	4.78	43	1230485	263.26	ug/l	98
26) 2,2-Dichloropropane	4.75	77	749225	47.10	ug/l	100
27) cis-1,2-Dichloroethene	4.75	96	583673	48.37	ug/l	98
28) Bromochloromethane	5.10	49	482659	46.98	ug/l	97
29) Tetrahydrofuran	5.14	42	553317	233.81	ug/l	99
30) Chloroform	5.28	83	942991	47.13	ug/l	99
31) Cyclohexane	5.55	56	843821	50.15	ug/l	96
32) 1,1,1-Trichloroethane	5.46	97	793237	47.05	ug/l	99
36) 1,1-Dichloropropene	5.70	75	670685	48.30	ug/l	99
37) Ethyl Acetate	4.87	43	486293	47.24	ug/l	97
38) Carbon Tetrachloride	5.68	117	668175	48.21	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082018\
 Data File : VD059832.D
 Acq On : 20 Aug 2018 15:35
 Operator : JC/SY
 Sample : VSTDICV050
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 ICSV082018

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM

Quant Time: Aug 21 04:41:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 21 04:20:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.23	83	718839	48.40	ug/l	99
40) Benzene	5.97	78	1749469	48.63	ug/l	100
41) Methacrylonitrile	5.08	41	260732	49.44	ug/l	96
42) 1,2-Dichloroethane	6.08	62	560609	47.85	ug/l	100
43) Isopropyl Acetate	7.57	43	661280	46.45	ug/l #	98
44) Trichloroethene	6.94	130	537673	50.25	ug/l	95
45) 1,2-Dichloropropane	7.30	63	502057	47.52	ug/l	100
46) Dibromomethane	7.42	93	321131	48.82	ug/l	92
47) Bromodichloromethane	7.70	83	708466	48.78	ug/l	99
48) Methyl methacrylate	7.46	41	381595	48.59	ug/l	98
49) 1,4-Dioxane	7.44	88	67884	1021.53	ug/l	97
51) 4-Methyl-2-Pentanone	8.55	43	2536131	266.43	ug/l	99
52) Toluene	8.76	92	1126919	49.54	ug/l	100
53) t-1,3-Dichloropropene	9.14	75	642339	48.56	ug/l	98
54) cis-1,3-Dichloropropene	8.32	75	780659	49.27	ug/l	98
55) 1,1,2-Trichloroethane	9.41	97	393188	47.88	ug/l	97
56) Ethyl methacrylate	9.27	69	452877	47.82	ug/l	96
57) 1,3-Dichloropropane	9.63	76	569683	47.45	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.15	63	1157387	219.43	ug/l	97
59) 2-Hexanone	9.74	43	1789621	254.36	ug/l	100
60) Dibromochloromethane	9.92	129	520948	49.26	ug/l	99
61) 1,2-Dibromoethane	10.06	107	424648	48.39	ug/l	99
64) Tetrachloroethene	9.47	164	459907	49.78	ug/l	98
65) Chlorobenzene	10.69	112	1234228	50.72	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.82	131	418252	50.36	ug/l	98
67) Ethyl Benzene	10.83	91	1967280	49.49	ug/l	99
68) m/p-Xylenes	10.98	106	1451745	98.99	ug/l	96
69) o-Xylene	11.38	106	718151	50.93	ug/l	97
70) Styrene	11.41	104	1235873	50.33	ug/l	97
71) Bromoform	11.57	173	378293	50.68	ug/l #	98
73) Isopropylbenzene	11.75	105	1969219	50.07	ug/l	98
74) N-amyl acetate	11.61	43	871607	49.49	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.05	83	456321	49.22	ug/l	99
76) 1,2,3-Trichloropropane	12.09	75	457247	47.89	ug/l	100
77) Bromobenzene	12.02	156	551307	50.43	ug/l	87
78) n-propylbenzene	12.13	91	2329076	47.68	ug/l	99
79) 2-Chlorotoluene	12.19	91	1360495	48.38	ug/l	96
80) 1,3,5-Trimethylbenzene	12.29	105	1376405	47.45	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.82	75	143660	48.13	ug/l	90
82) 4-Chlorotoluene	12.30	91	1353477	47.77	ug/l	94
83) tert-Butylbenzene	12.55	119	1541987m	44.92	ug/l	
84) 1,2,4-Trimethylbenzene	12.60	105	1585798	49.00	ug/l	98
85) sec-Butylbenzene	12.74	105	2030169	49.34	ug/l	96
86) p-Isopropyltoluene	12.86	119	1615657	50.06	ug/l	97
87) 1,3-Dichlorobenzene	12.81	146	951405	51.70	ug/l	98
88) 1,4-Dichlorobenzene	12.90	146	915296	50.18	ug/l	97
89) n-Butylbenzene	13.18	91	1491933	49.65	ug/l	99
90) Hexachloroethane	13.38	117	468173	50.84	ug/l	84
91) 1,2-Dichlorobenzene	13.17	146	713366	51.60	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.75	75	65895	47.75	ug/l	77

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082018\
Data File : VD059832.D
Acq On : 20 Aug 2018 15:35
Operator : JC/SY
Sample : VSTDICV050
Misc : 5.00g/5ml/MSVOA D/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

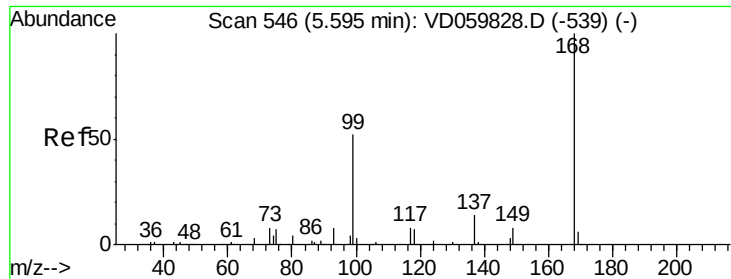
Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM

Quant Time: Aug 21 04:41:55 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:20:16 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.32	180	693420	52.48	ug/l	99
94) Hexachlorobutadiene	14.41	225	473281	53.24	ug/l	99
95) Naphthalene	14.50	128	1095412	50.75	ug/l	100
96) 1,2,3-Trichlorobenzene	14.63	180	580738	50.15	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.60 min Scan# 546

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion:168 Resp: 1152754

Ion Ratio Lower Upper

168 100

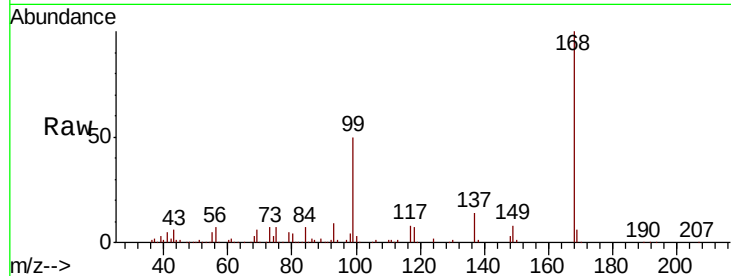
99 49.5 43.6 65.4

Manual Integrations

APPROVED

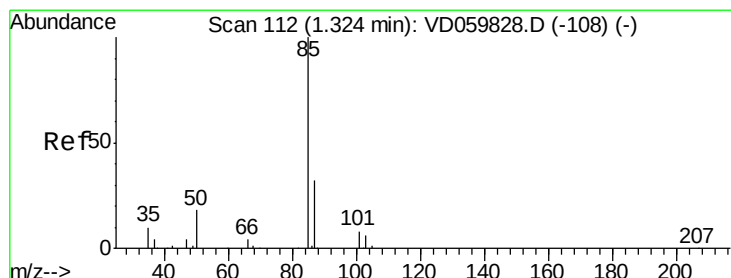
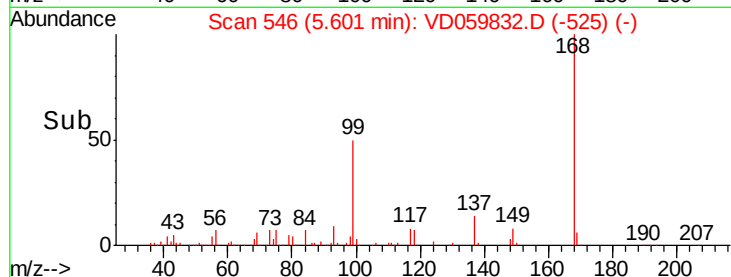
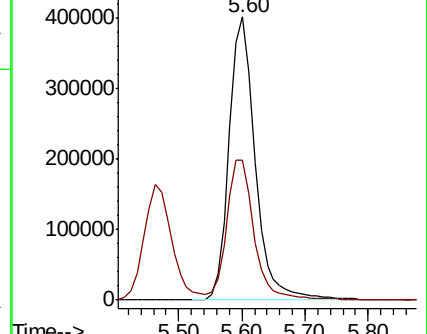
apatel

8/21/2018 10:23:43 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 45.88 ug/l

RT: 1.33 min Scan# 112

Delta R.T. 0.01 min

Lab File: VD059832.D

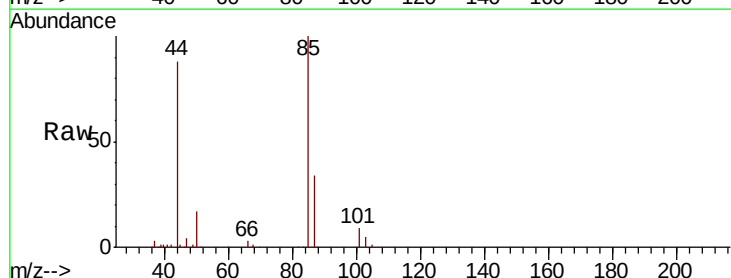
Acq: 20 Aug 2018 15:35

Tgt Ion: 85 Resp: 455535

Ion Ratio Lower Upper

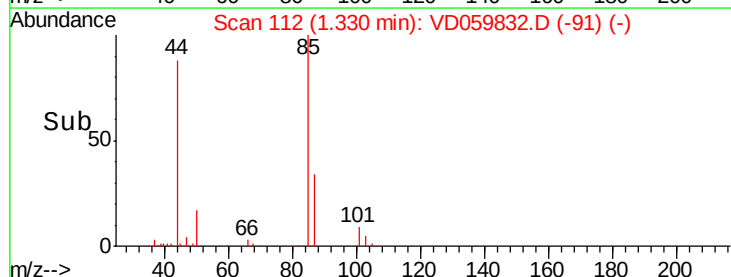
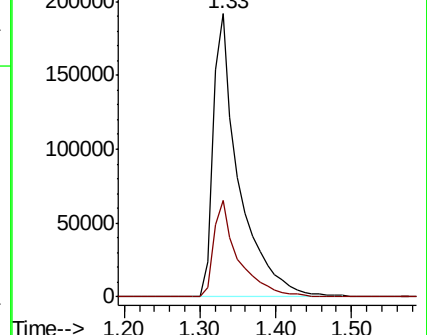
85 100

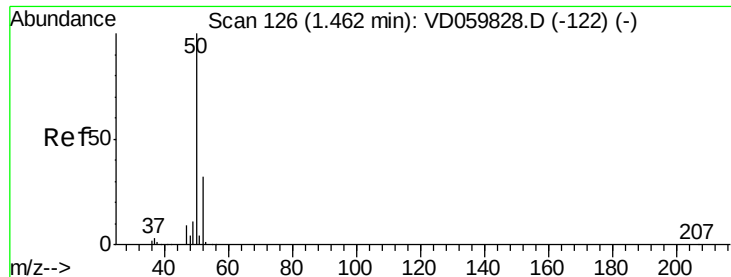
87 34.2 16.1 48.3



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 47.77 ug/l

RT: 1.47 min Scan# 126

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 50 Resp: 401768

Ion Ratio Lower Upper

50 100

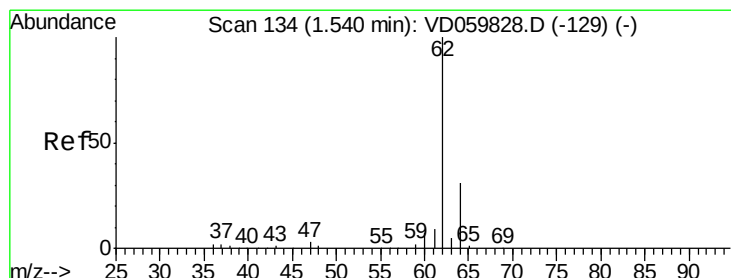
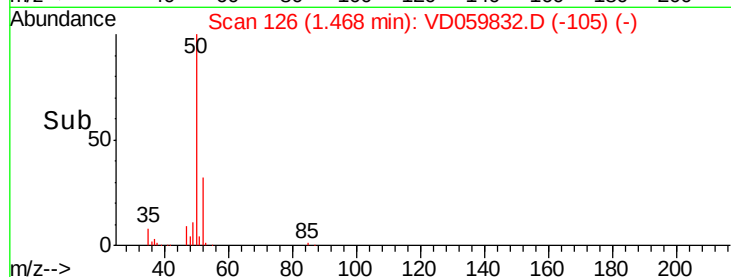
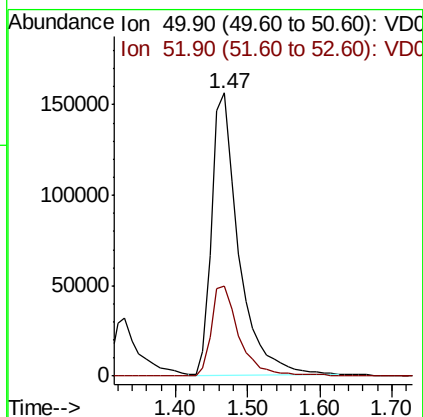
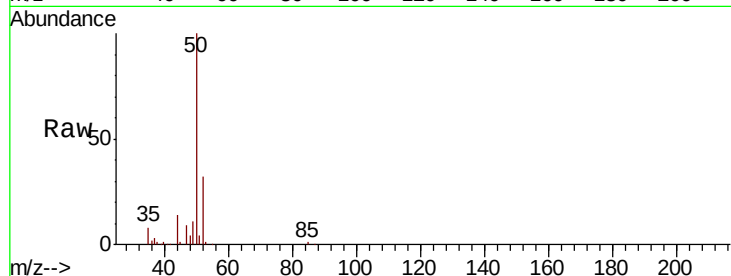
52 31.8 25.4 38.2

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



#4

Vinyl Chloride

Concen: 47.29 ug/l

RT: 1.54 min Scan# 133

Delta R.T. -0.00 min

Lab File: VD059832.D

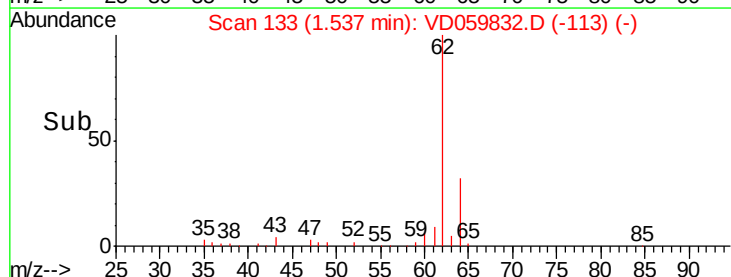
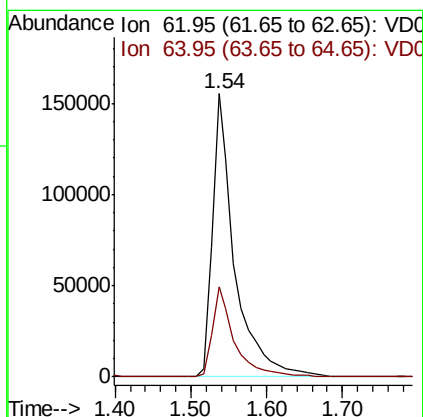
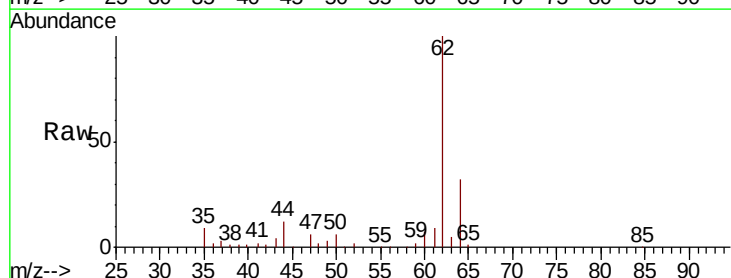
Acq: 20 Aug 2018 15:35

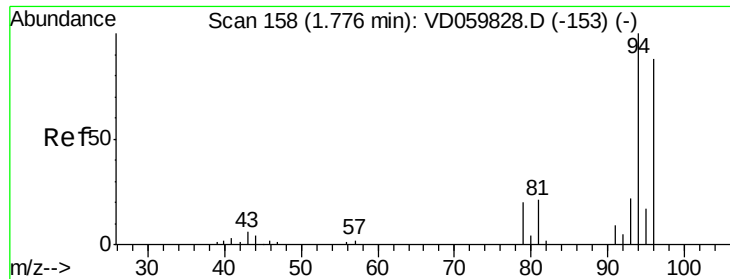
Tgt Ion: 62 Resp: 318738

Ion Ratio Lower Upper

62 100

64 31.9 25.0 37.6





#5

Bromomethane

Concen: 66.96 ug/l

RT: 1.77 min Scan# 157

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampled :

ICVVD082018

Tot Ion: 94 Resp: 59314

Ion Ratio Lower Upper

94 100

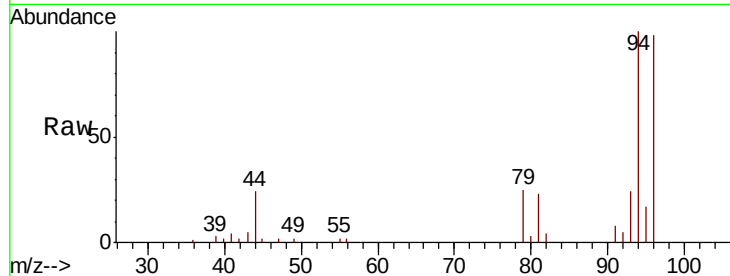
96 97.9 70.8 106.2

Manual Integrations

APPROVED

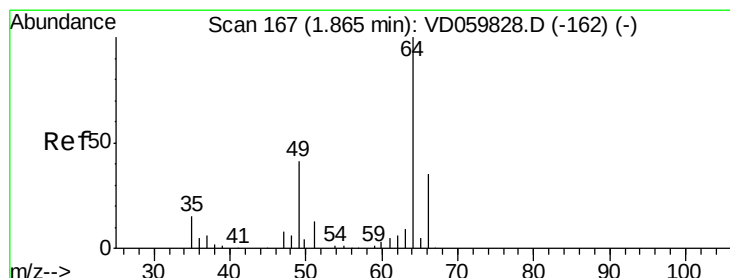
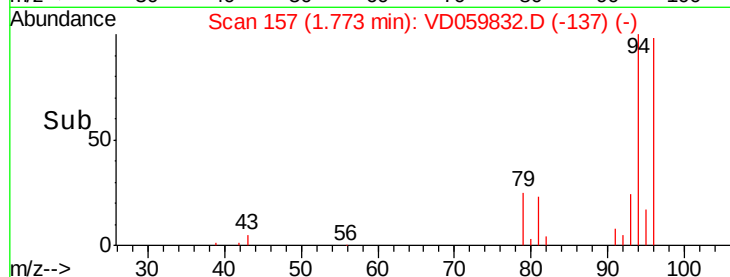
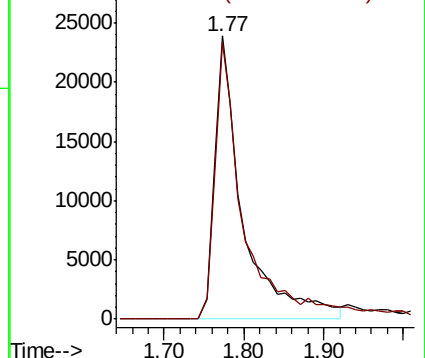
apatel

8/21/2018 10:23:43 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 60.27 ug/l

RT: 1.86 min Scan# 166

Delta R.T. -0.00 min

Lab File: VD059832.D

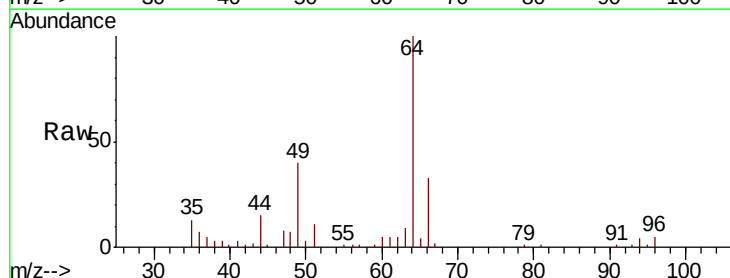
Acq: 20 Aug 2018 15:35

Tgt Ion: 64 Resp: 91921

Ion Ratio Lower Upper

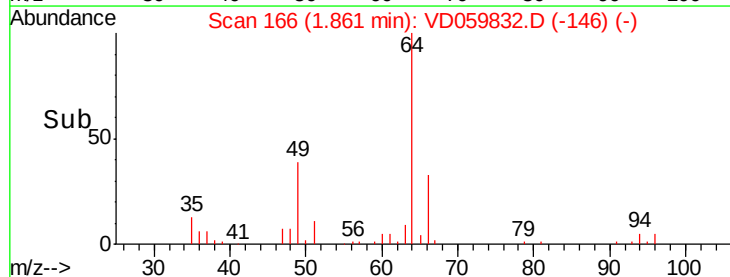
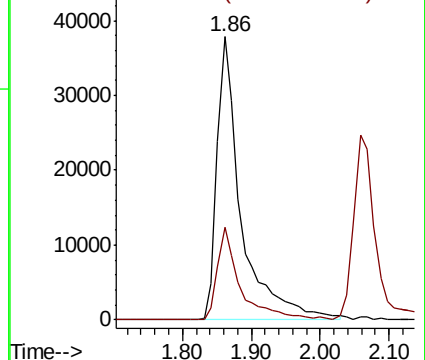
64 100

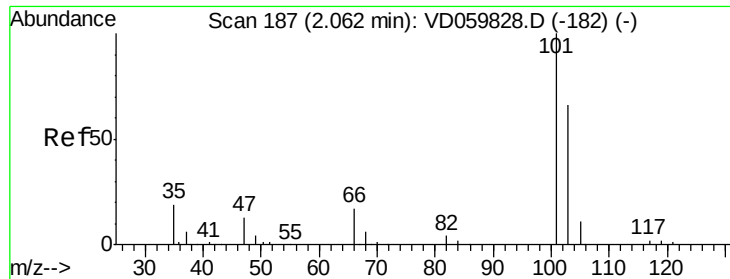
66 32.9 27.9 41.9



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

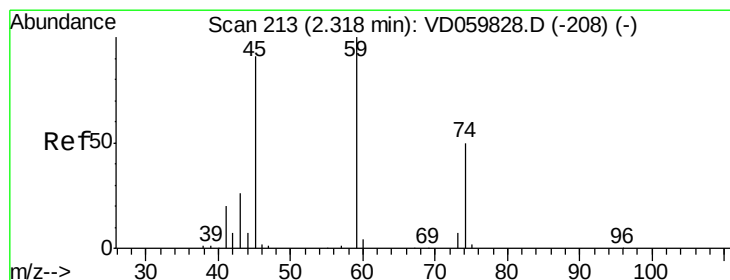
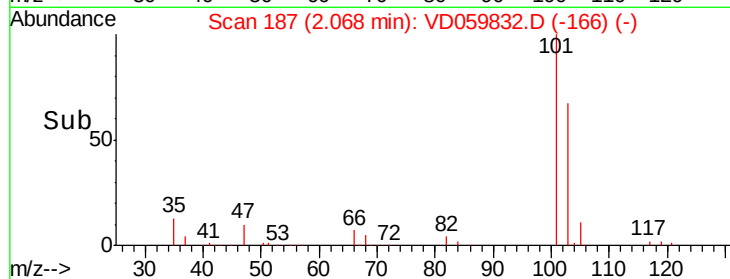
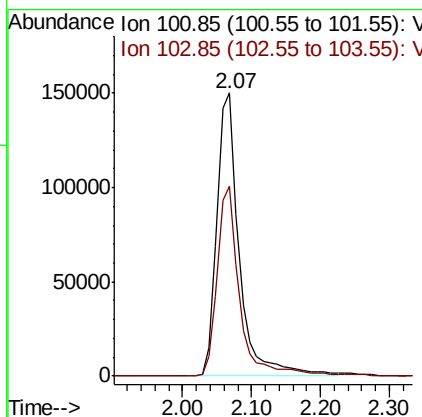
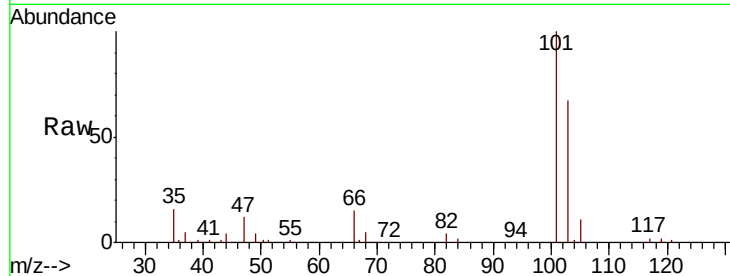
Trichlorofluoromethane
 Concen: 50.19 ug/l
 RT: 2.07 min Scan# 187
 Delta R.T. 0.01 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

Tot Ion	Ratio	Lower	Upper
101	100		
103	67.3	53.0	79.4

Manual Integrations
 APPROVED

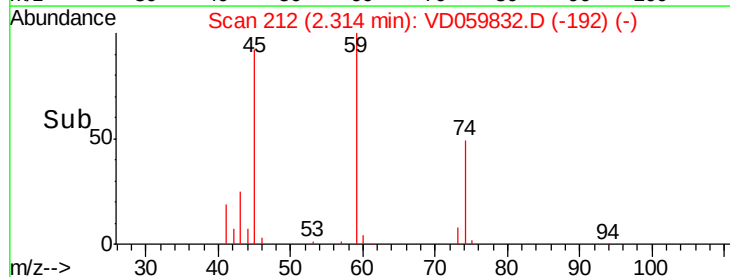
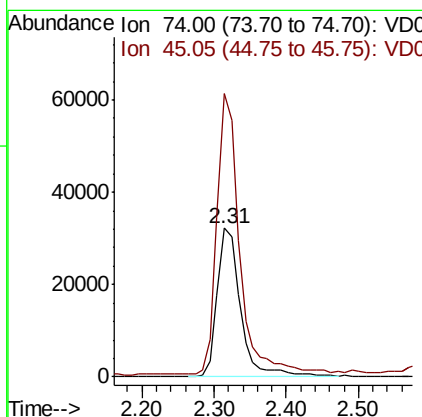
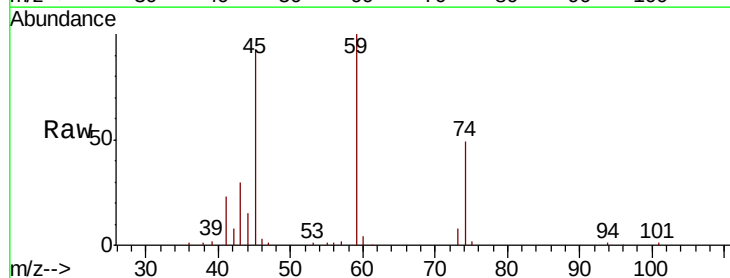
apatel
 8/21/2018 10:23:43 AM

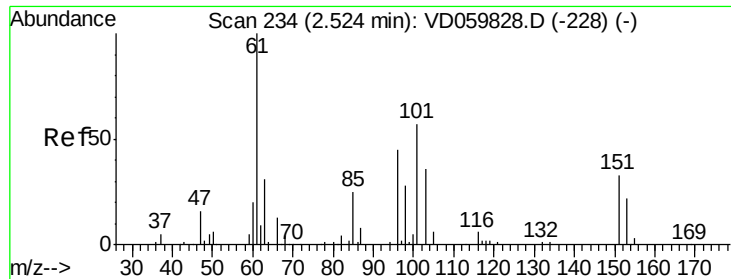


#8

Diethyl Ether
 Concen: 47.94 ug/l
 RT: 2.31 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	190.2	90.6	271.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.16 ug/l

RT: 2.53 min Scan# 234

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

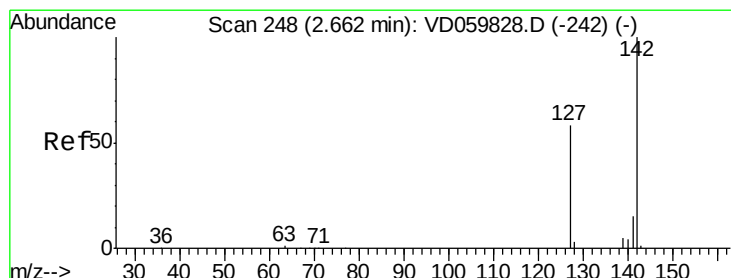
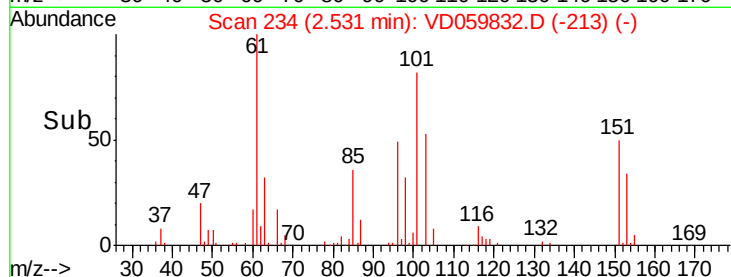
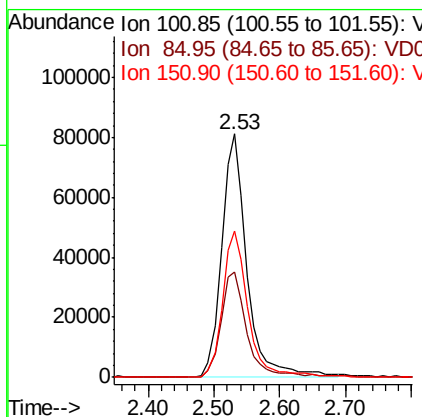
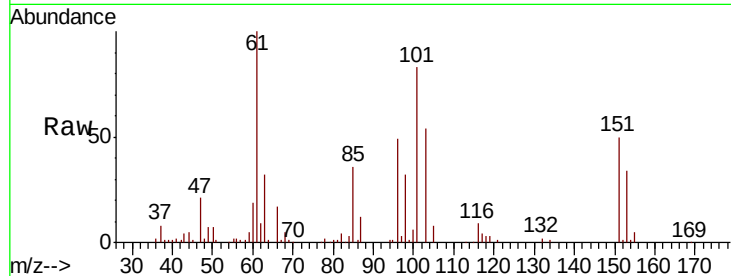
ClientSampleId :

ICVVD082018

Tot Ion:	101	Resp:	216473
Ion Ratio	Lower	Upper	
101	100		
85	43.2	35.7	53.5
151	60.3	45.8	68.6

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#10

Methyl Iodide

Concen: 45.10 ug/l

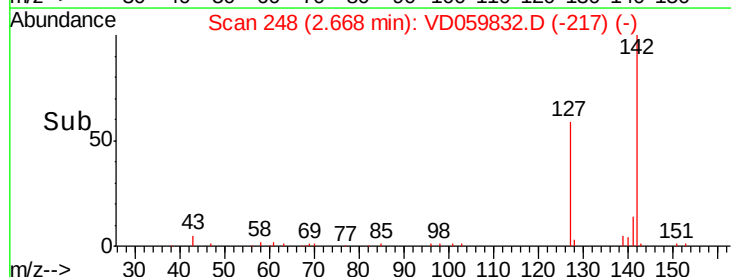
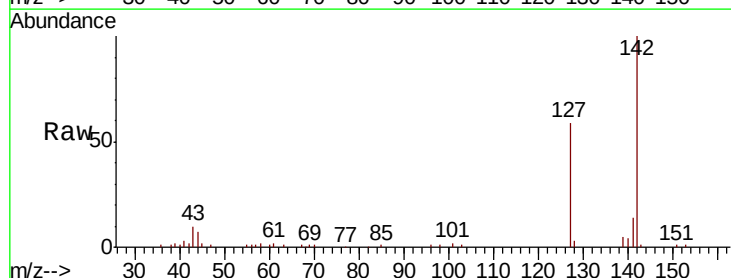
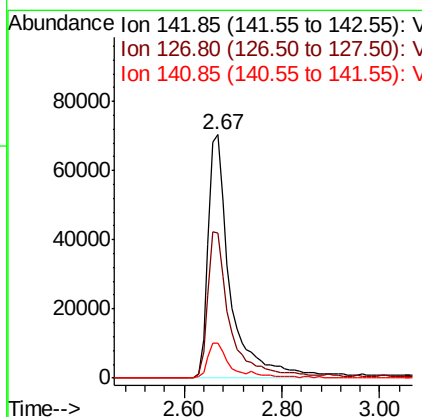
RT: 2.67 min Scan# 248

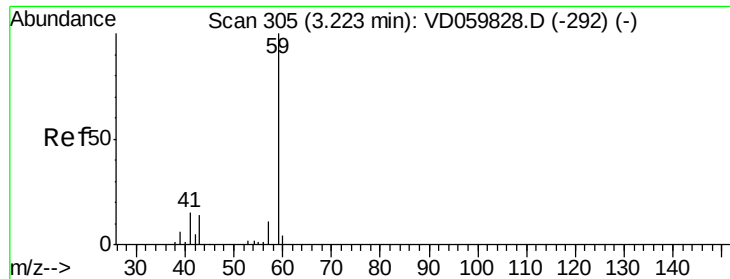
Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	142	Resp:	224020
Ion Ratio	Lower	Upper	
142	100		
127	59.3	46.6	69.8
141	14.5	11.7	17.5





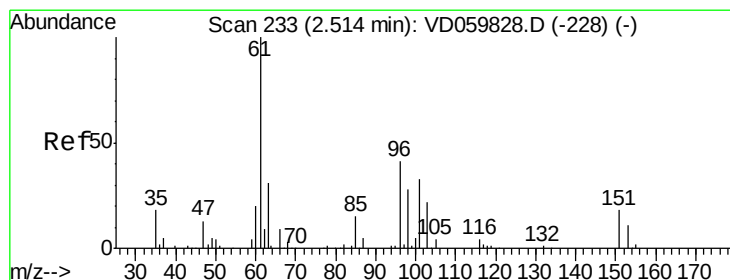
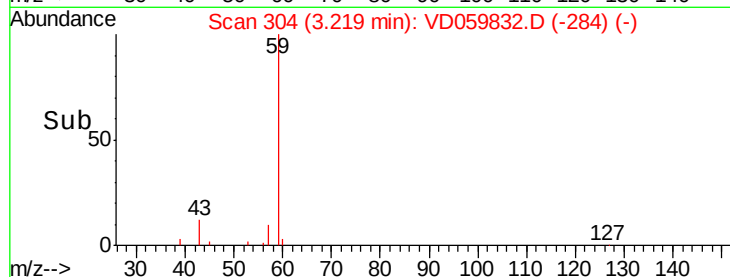
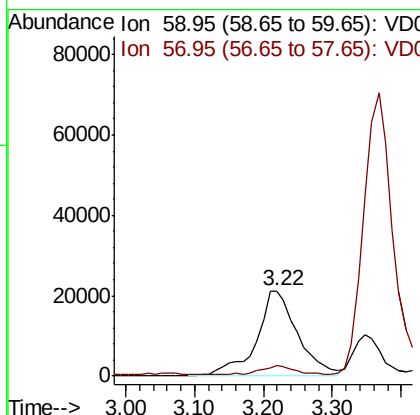
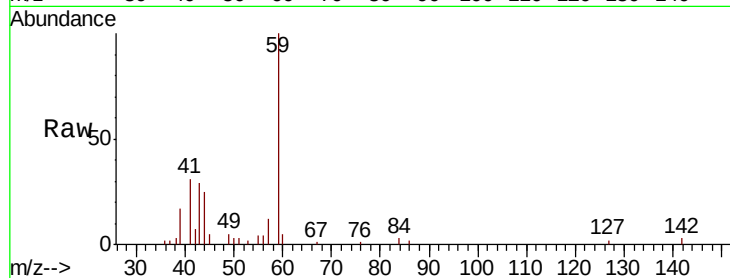
#11
Tert butyl alcohol
Concen: 260.26 ug/l
RT: 3.22 min Scan# 304
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	58.95 (58.65 to 59.65): VDC	Resp	88759
Ion	Ratio	Lower	Upper
59	100		
57	11.9	10.3	15.5

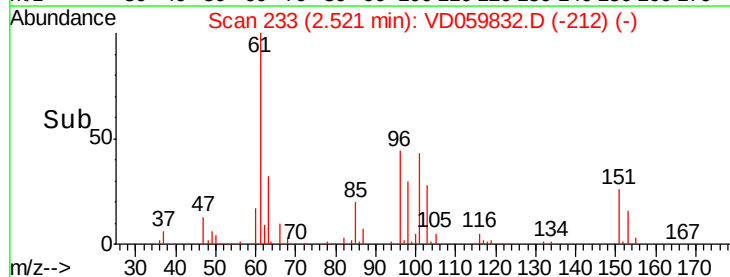
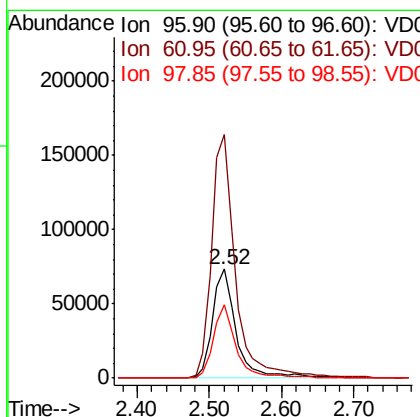
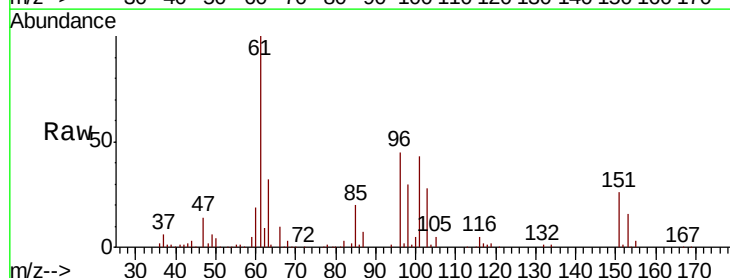
Manual Integrations
APPROVED

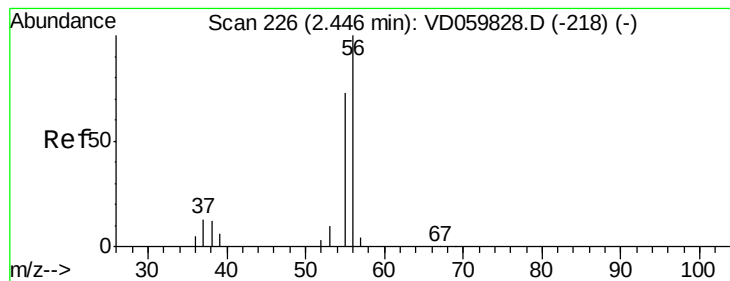
apatel
8/21/2018 10:23:43 AM



#12
1,1-Dichloroethene
Concen: 54.69 ug/l
RT: 2.52 min Scan# 233
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	96	Resp	165277
Ion	Ratio	Lower	Upper
96	100		
61	224.2	194.0	291.0
98	67.3	53.4	80.0





#13

Acrolein

Concen: 263.75 ug/l

RT: 2.44 min Scan# 225

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 56 Resp: 92143

Ion Ratio Lower Upper

56 100

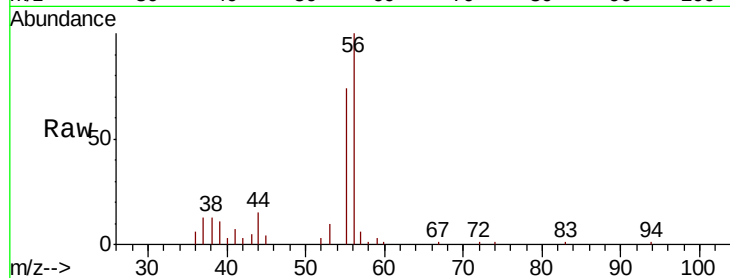
55 73.5 60.4 90.6

Manual Integrations

APPROVED

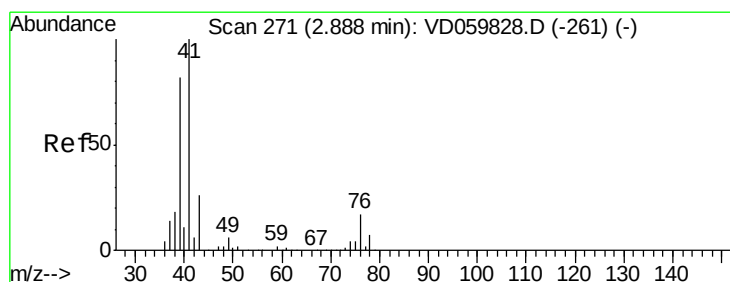
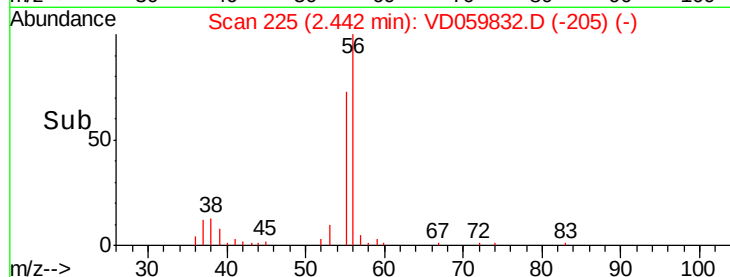
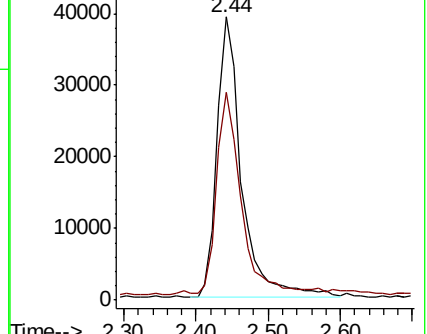
apatel

8/21/2018 10:23:43 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 47.06 ug/l

RT: 2.88 min Scan# 270

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

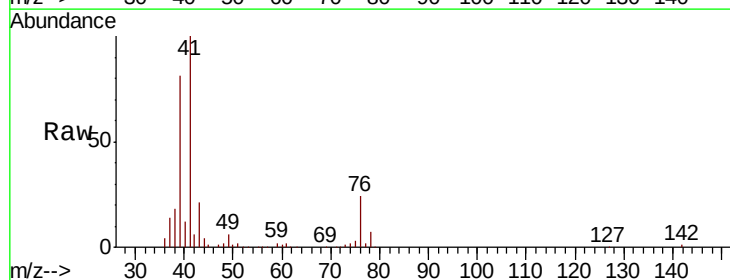
Tgt Ion: 41 Resp: 424725

Ion Ratio Lower Upper

41 100

39 81.5 65.9 98.9

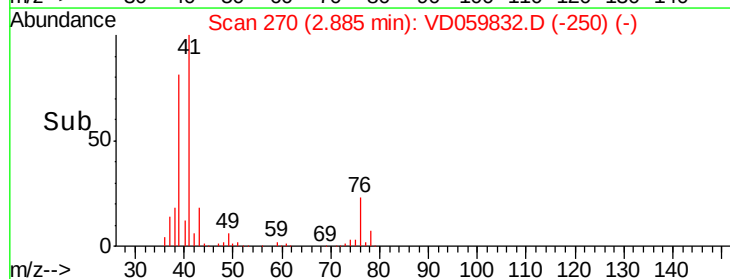
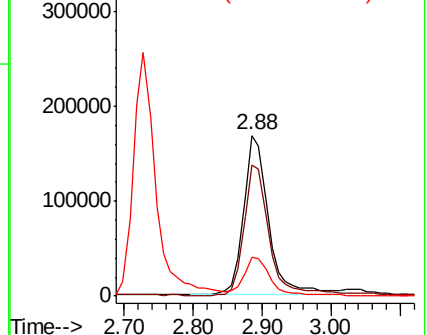
76 23.8 19.9 29.9

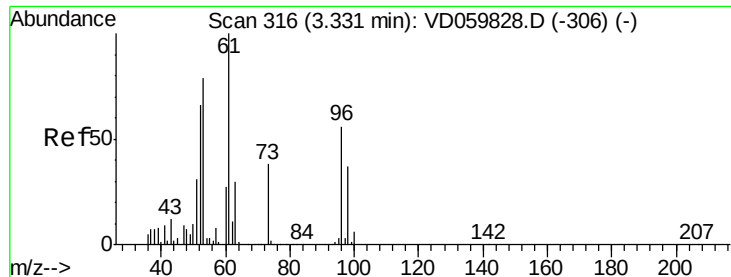


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 222.51 ug/l

RT: 3.33 min Scan# 315

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

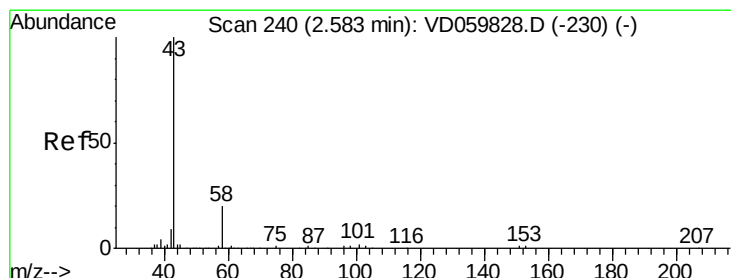
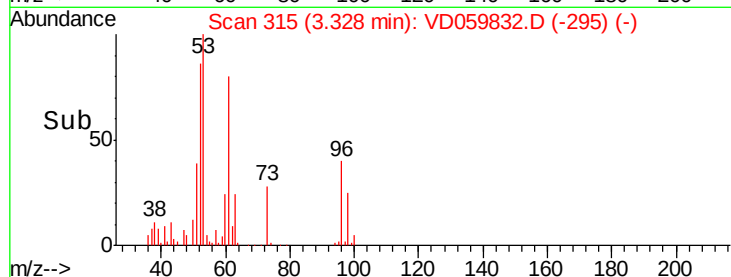
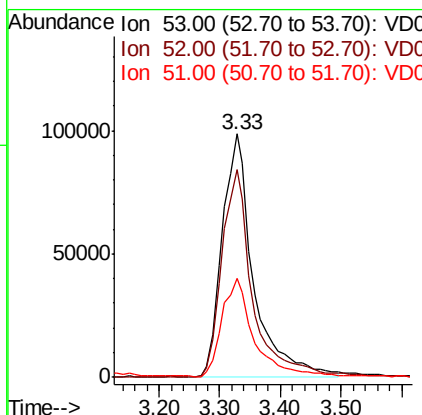
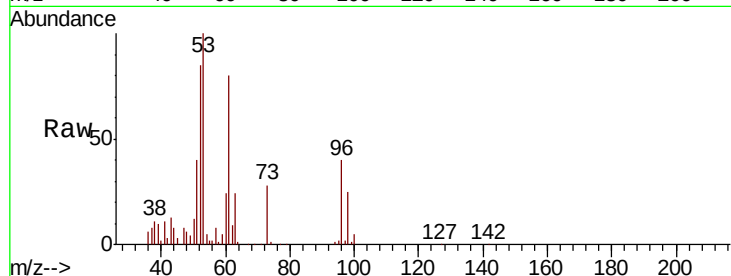
ClientSampleId :

ICVVD082018

Tot Ion:	53	Resp:	351230
Ion	Ratio	Lower	Upper
53	100		
52	85.4	66.8	100.2
51	40.5	31.6	47.4

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#16

Acetone

Concen: 276.38 ug/l

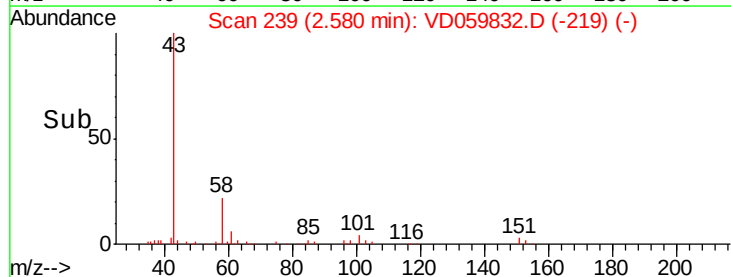
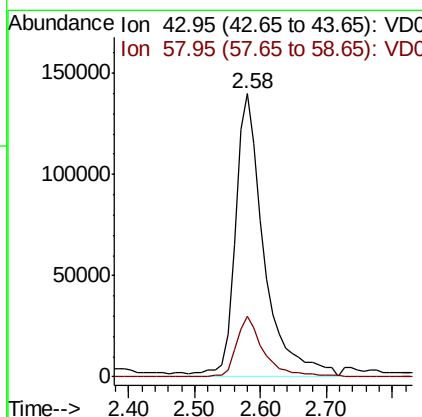
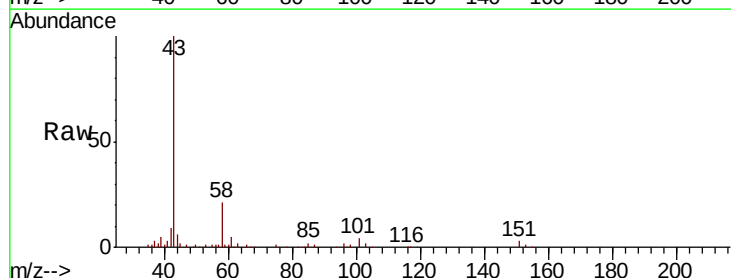
RT: 2.58 min Scan# 239

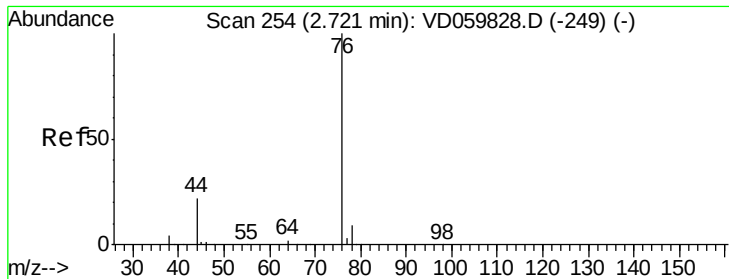
Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	43	Resp:	427367
Ion	Ratio	Lower	Upper
43	100		
58	21.3	16.2	24.2





#17

Carbon Disulfide

Concen: 51.24 ug/l

RT: 2.73 min Scan# 254

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 76 Resp: 584418

Ion Ratio Lower Upper

76 100

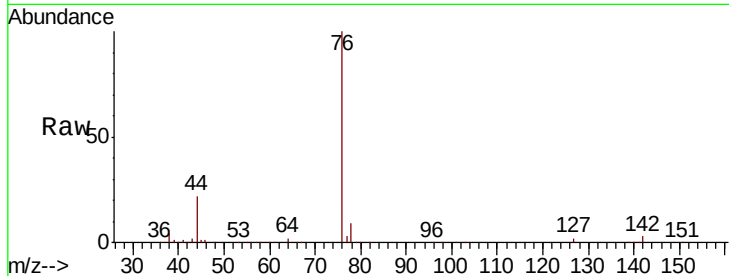
78 9.4 7.0 10.6

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

2.73

250000

200000

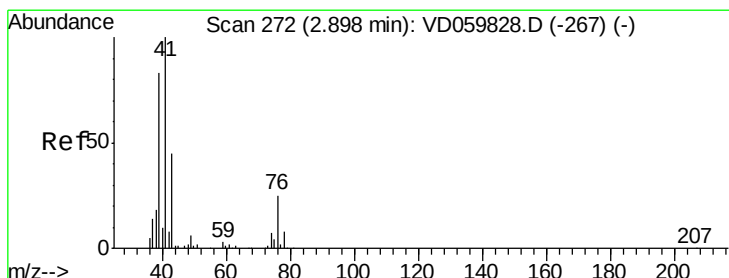
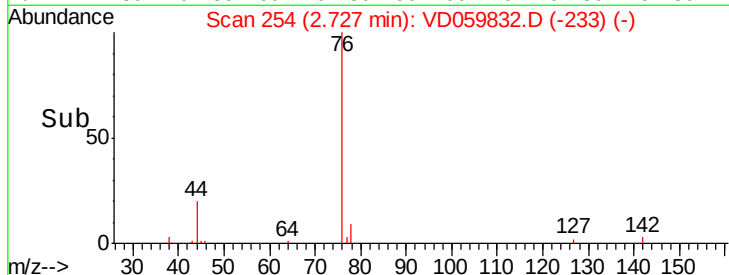
150000

100000

50000

0

Time-->



#18

Methyl Acetate

Concen: 50.01 ug/l

RT: 2.90 min Scan# 272

Delta R.T. 0.01 min

Lab File: VD059832.D

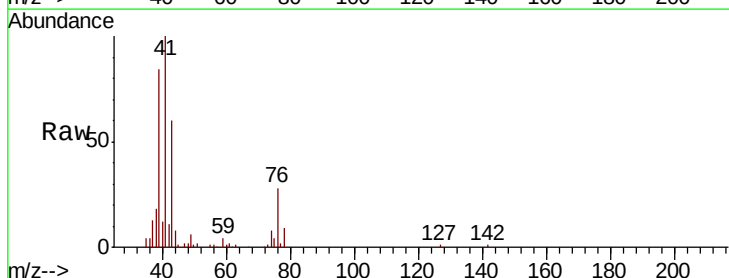
Acq: 20 Aug 2018 15:35

Tgt Ion: 43 Resp: 156323

Ion Ratio Lower Upper

43 100

74 13.8 11.4 17.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

2.90

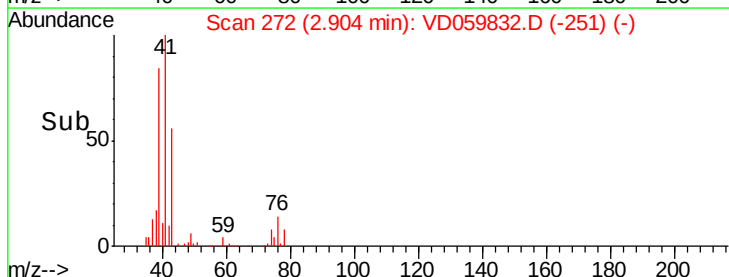
60000

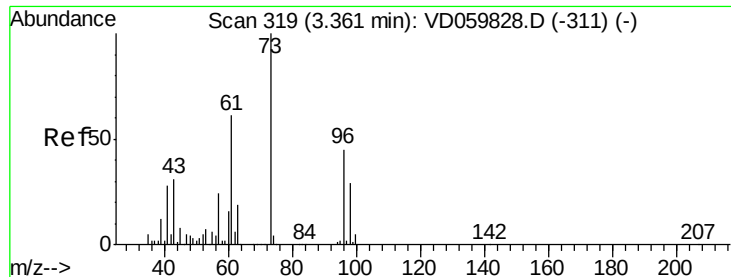
40000

20000

0

Time-->





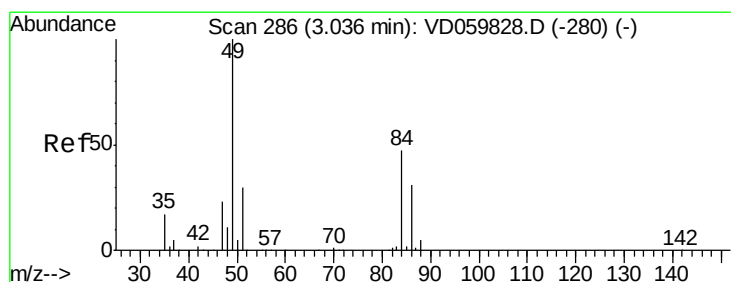
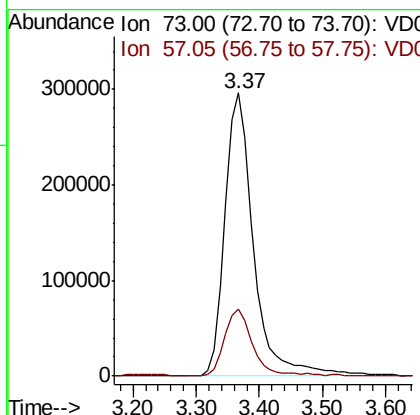
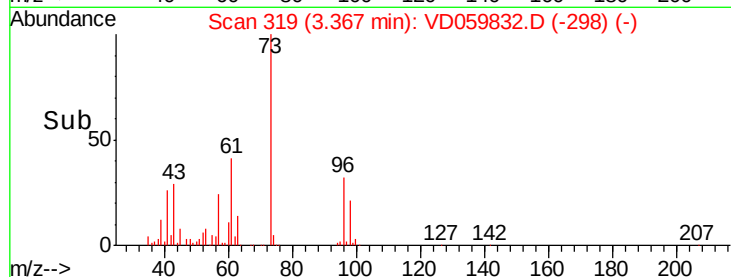
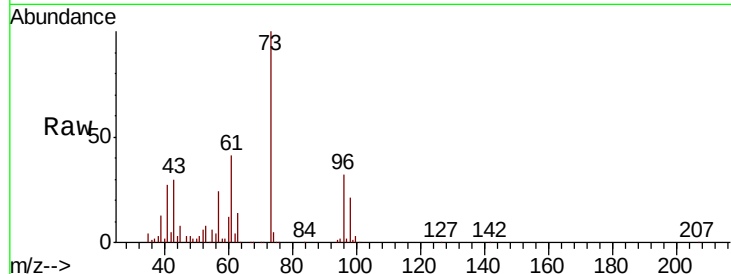
#19
Methyl tert-butyl Ether
Concen: 46.38 ug/l
RT: 3.37 min Scan# 319
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion: 73 Resp: 925183
Ion Ratio Lower Upper
73 100
57 23.8 19.4 29.0

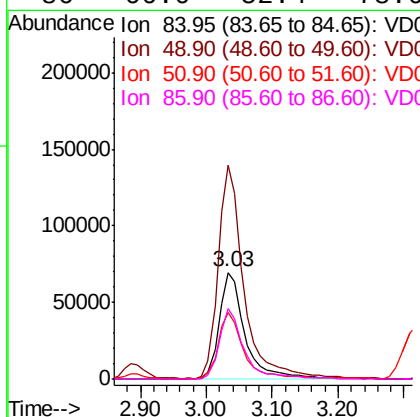
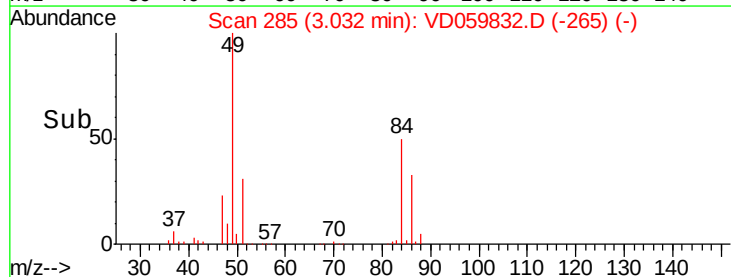
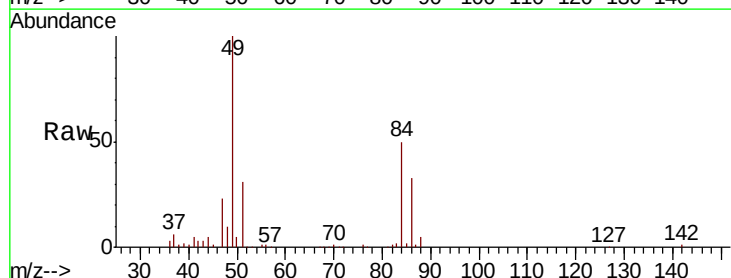
Manual Integrations
APPROVED

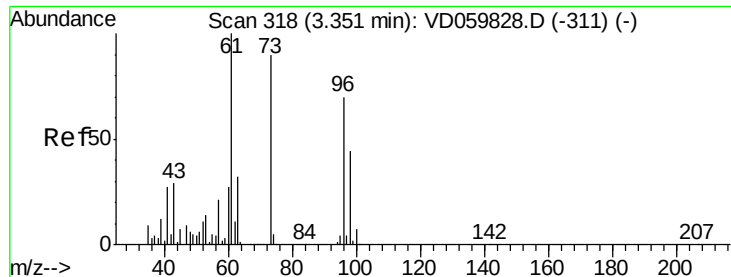
apatel
8/21/2018 10:23:43 AM



#20
Methylene Chloride
Concen: 48.81 ug/l
RT: 3.03 min Scan# 285
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion: 84 Resp: 188925
Ion Ratio Lower Upper
84 100
49 201.1 170.4 255.6
51 63.2 51.4 77.0
86 66.0 52.4 78.6





#21

trans-1,2-Dichloroethene

Concen: 47.50 ug/l

RT: 3.35 min Scan# 317

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

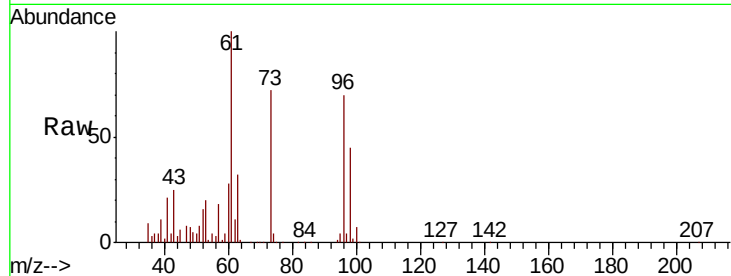
ClientSampleId :

ICVVD082018

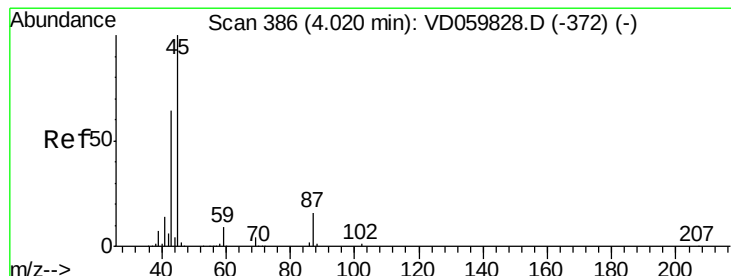
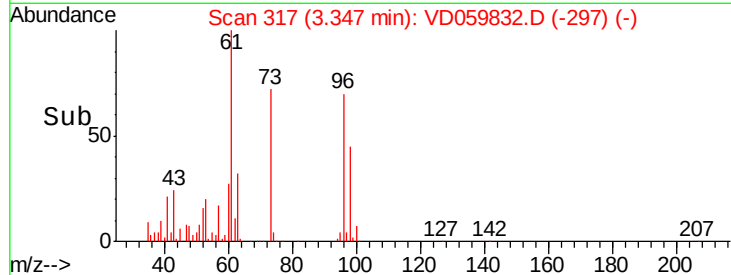
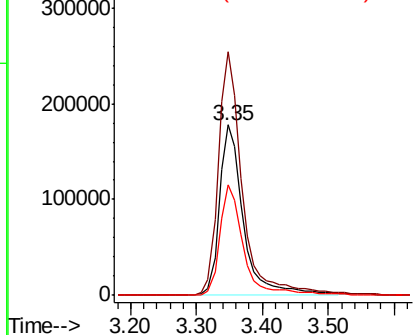
Tot Ion:	96	Resp:	452366
Ion	Ratio	Lower	Upper
96	100		
61	142.9	114.1	171.1
98	64.9	50.1	75.1

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 46.69 ug/l

RT: 4.03 min Scan# 386

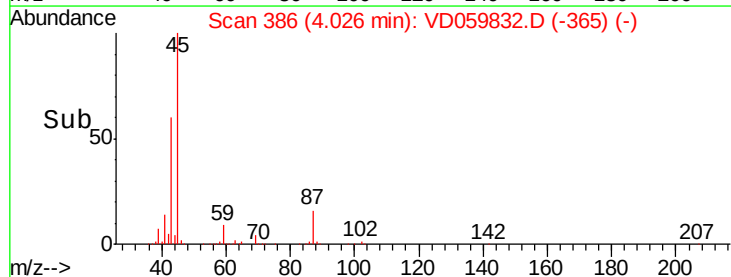
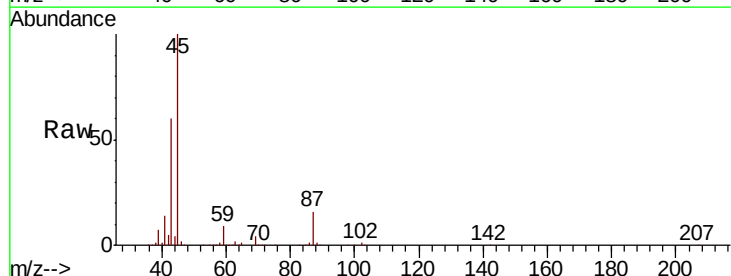
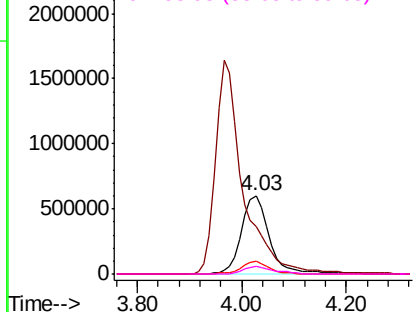
Delta R.T. 0.01 min

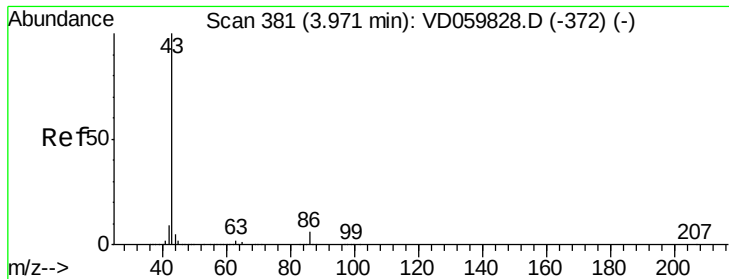
Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	45	Resp:	2152718
Ion	Ratio	Lower	Upper
45	100		
43	60.4	51.1	76.7
87	15.6	12.5	18.7
59	9.0	7.1	10.7

Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 237.44 ug/l

RT: 3.97 min Scan# 380

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 43 Resp: 5880423

Ion Ratio Lower Upper

43 100

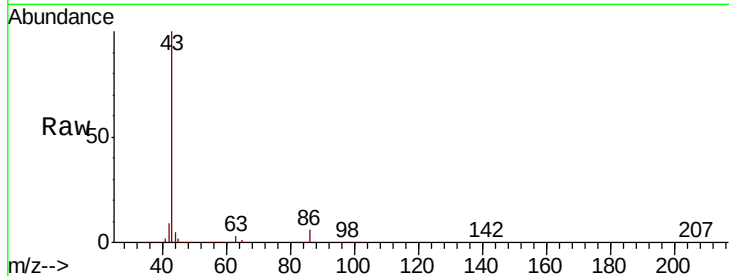
86 5.7 4.6 7.0

Manual Integrations

APPROVED

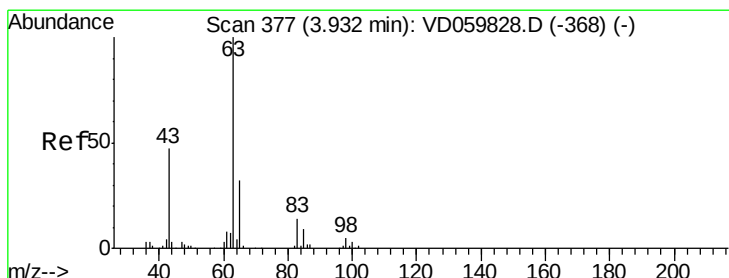
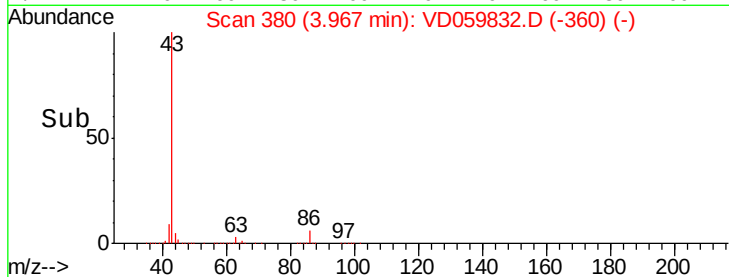
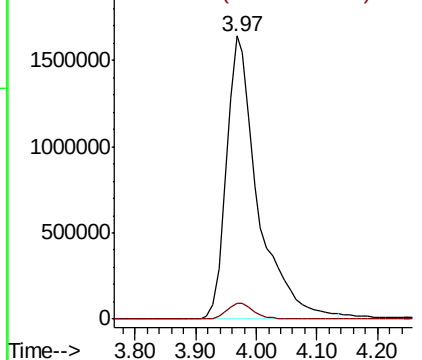
apatel

8/21/2018 10:23:43 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 47.24 ug/l

RT: 3.93 min Scan# 376

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

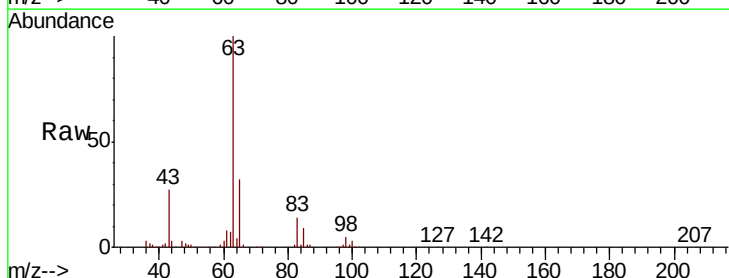
Tgt Ion: 63 Resp: 957654

Ion Ratio Lower Upper

63 100

98 5.0 2.5 7.6

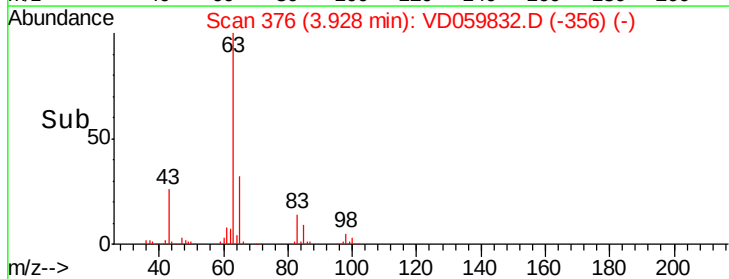
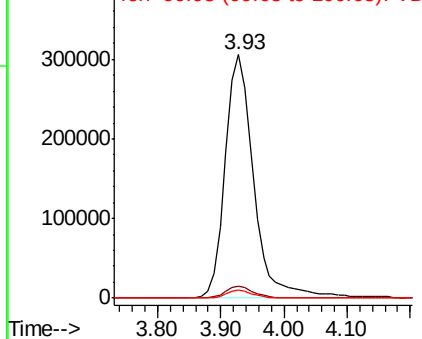
100 3.2 1.7 5.0

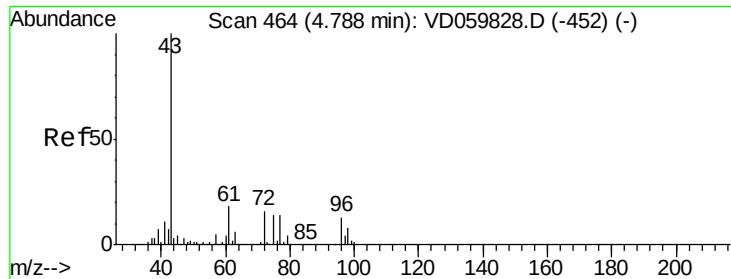


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 263.26 ug/l

RT: 4.78 min Scan# 463

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 43 Resp: 1230485

Ion Ratio Lower Upper

43 100

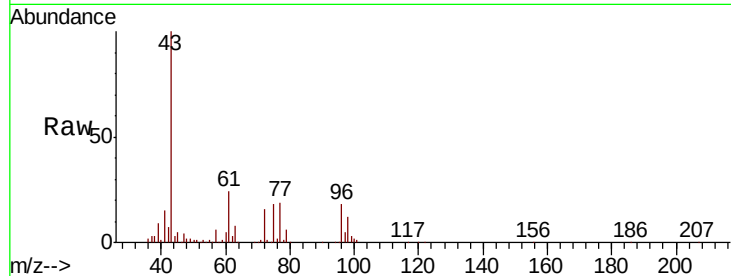
72 16.3 12.4 18.6

Manual Integrations

APPROVED

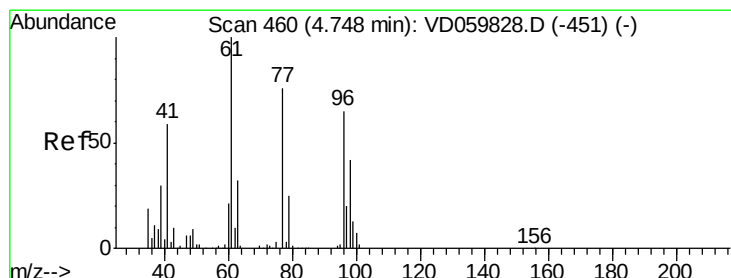
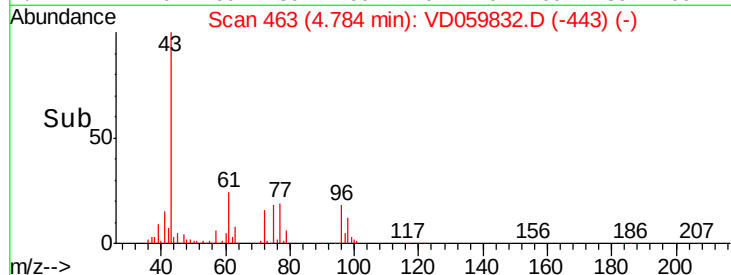
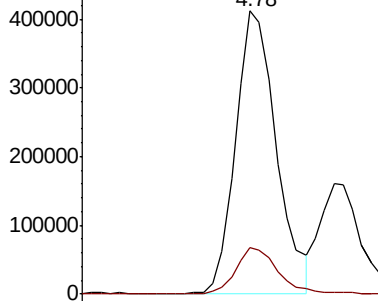
apatel

8/21/2018 10:23:43 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 47.10 ug/l

RT: 4.75 min Scan# 460

Delta R.T. 0.01 min

Lab File: VD059832.D

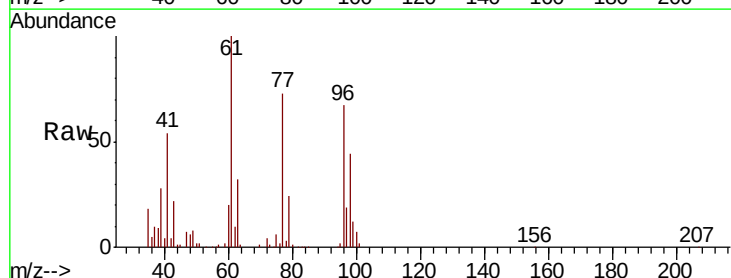
Acq: 20 Aug 2018 15:35

Tgt Ion: 77 Resp: 749225

Ion Ratio Lower Upper

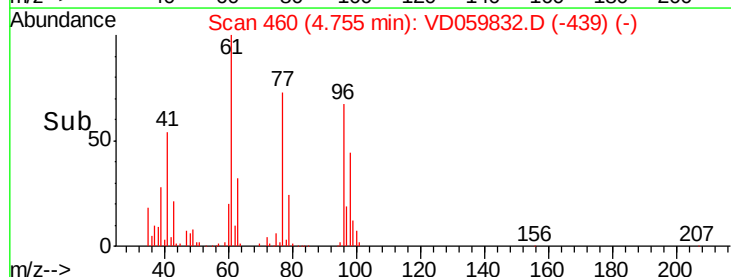
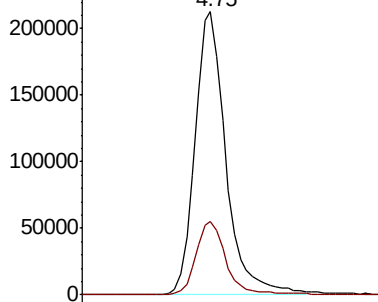
77 100

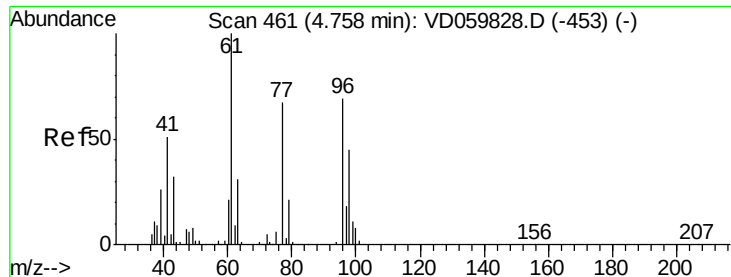
97 26.1 13.0 38.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

cis-1,2-Dichloroethene

Concen: 48.37 ug/l

RT: 4.75 min Scan# 460

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

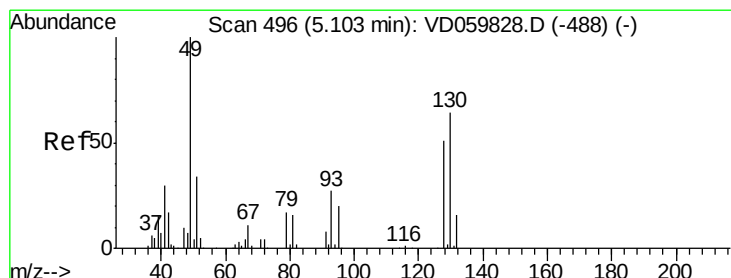
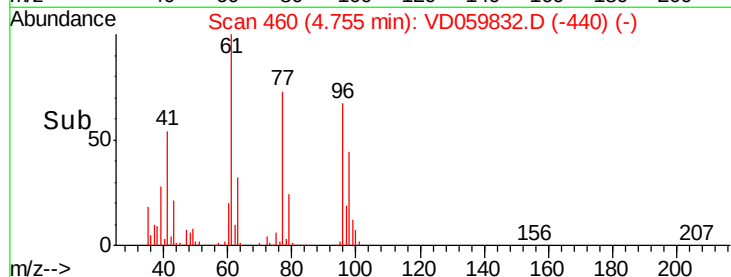
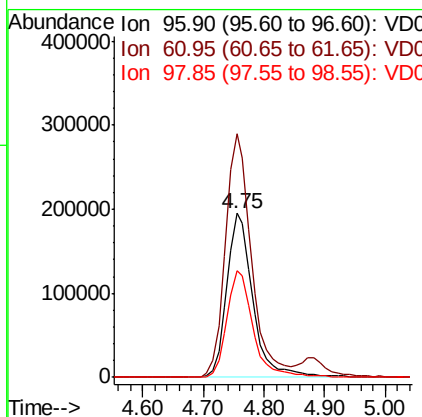
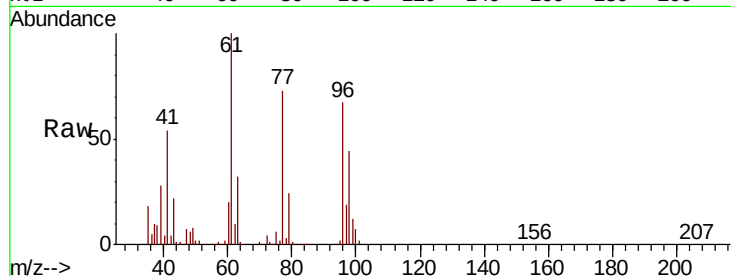
ClientSampleId :

ICVVD082018

Tot Ion:	96	Resp:	583673
Ion	Ratio	Lower	Upper
96	100		
61	148.7	0.0	291.8
98	65.5	0.0	131.6

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#28

Bromochloromethane

Concen: 46.98 ug/l

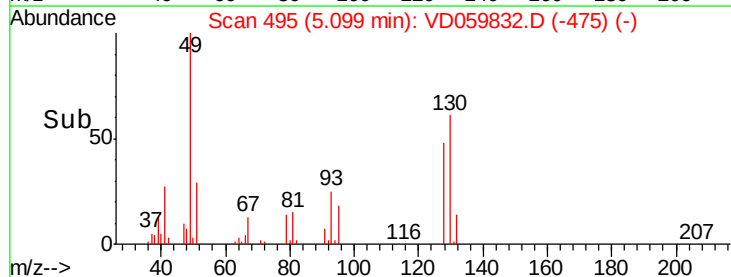
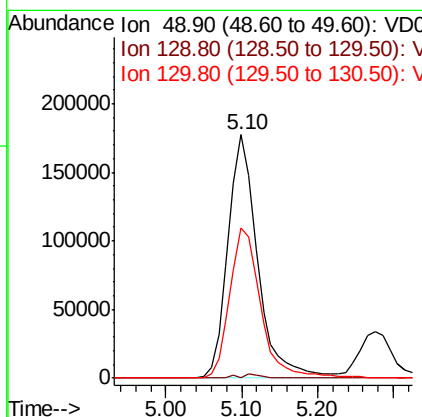
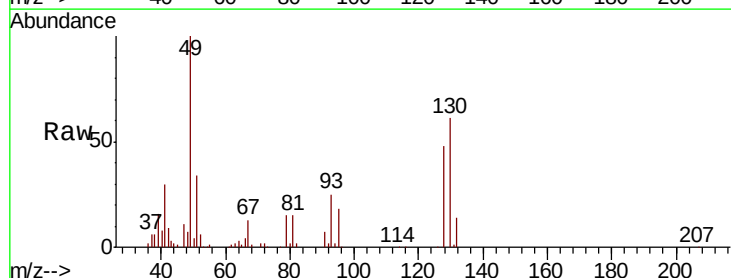
RT: 5.10 min Scan# 495

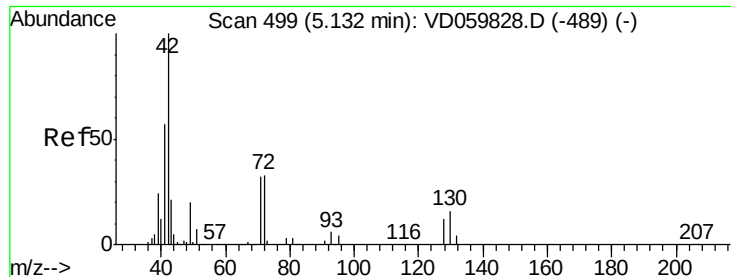
Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	49	Resp:	482659
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	61.5	51.0	76.6





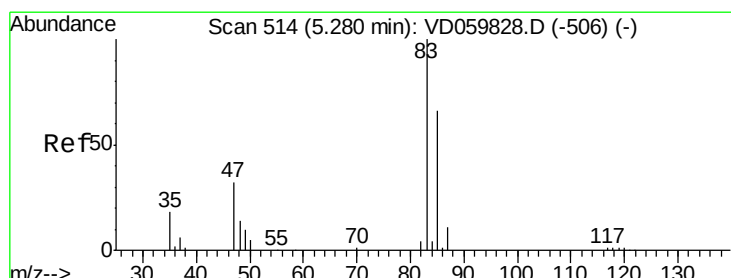
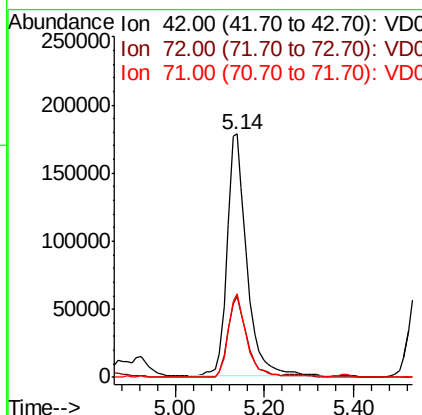
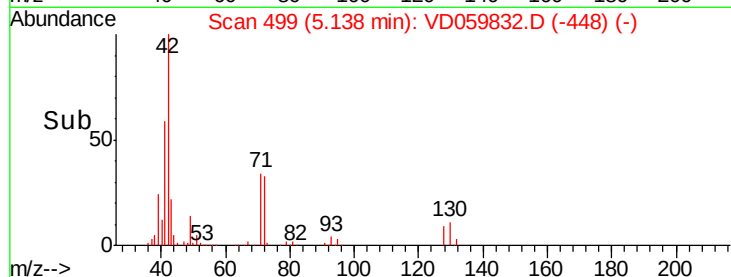
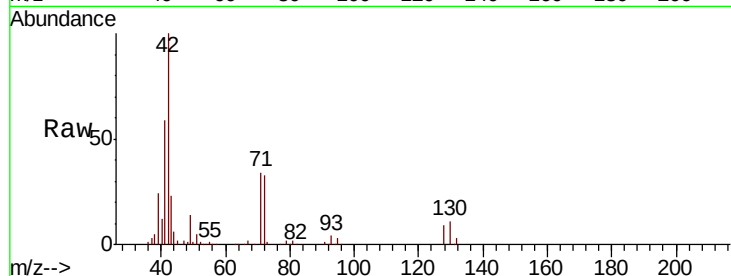
#29
Tetrahydrofuran
Concen: 233.81 ug/l
RT: 5.14 min Scan# 499
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Resp	Lower	Upper
42	100	553317		
72	32.1		25.8	38.6
71	32.8		25.7	38.5

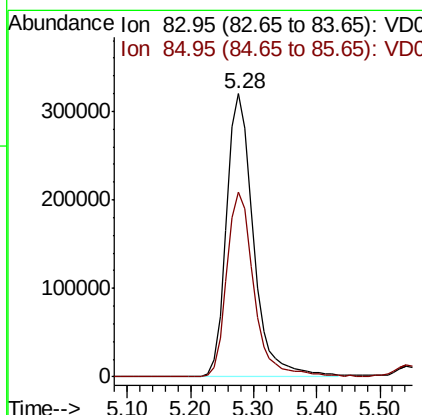
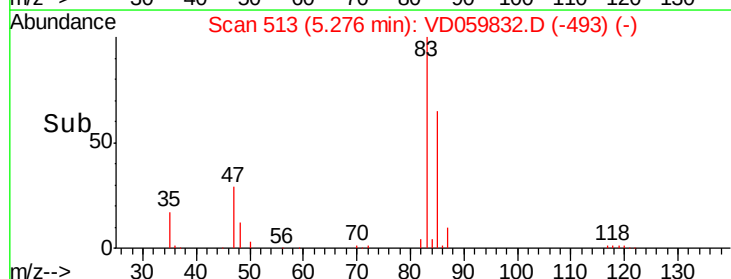
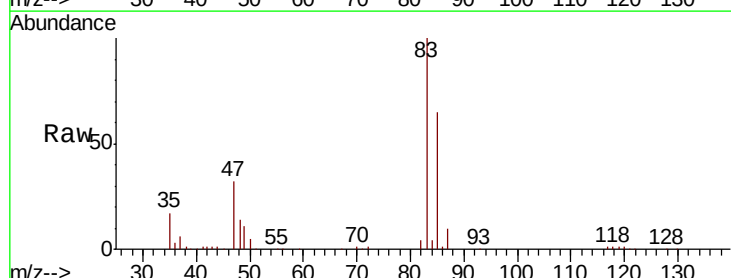
Manual Integrations
APPROVED

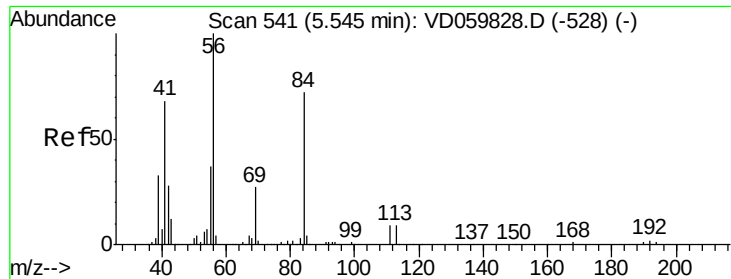
apatel
8/21/2018 10:23:43 AM



#30
Chloroform
Concen: 47.13 ug/l
RT: 5.28 min Scan# 513
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	942991		
85	65.2		52.9	79.3





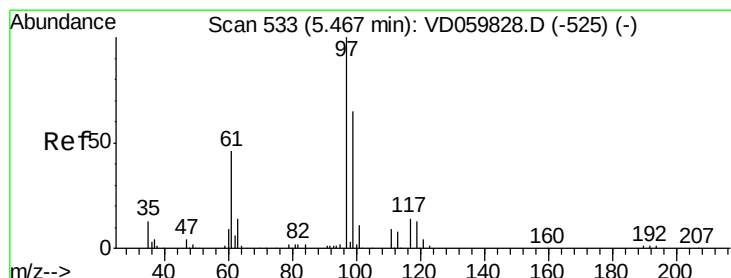
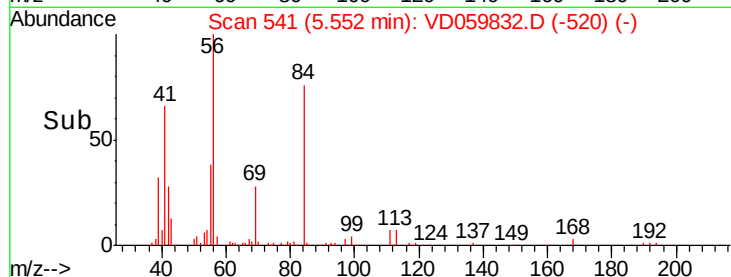
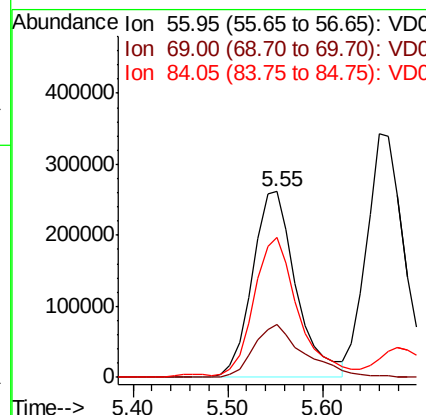
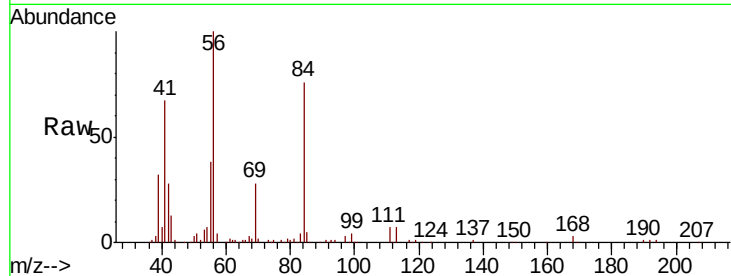
#31
Cyclohexane
Concen: 50.15 ug/l
RT: 5.55 min Scan# 541
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.4	21.7	32.5
84	75.7	57.8	86.6

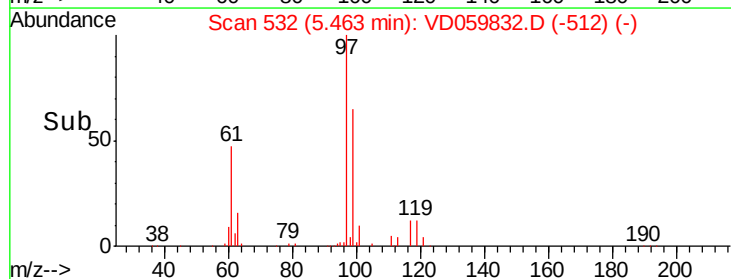
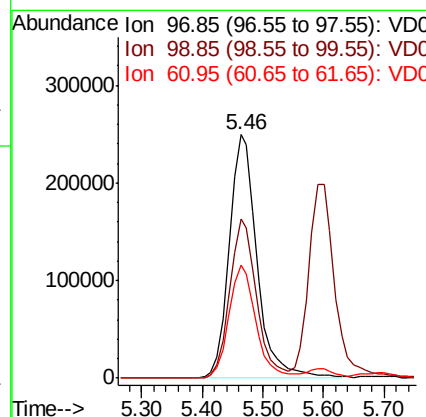
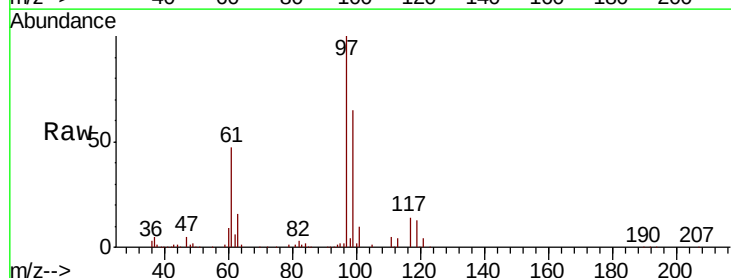
Manual Integrations
APPROVED

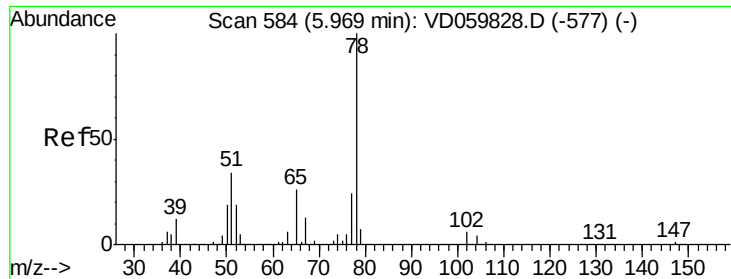
apatel
8/21/2018 10:23:43 AM



#32
1,1,1-Trichloroethane
Concen: 47.05 ug/l
RT: 5.46 min Scan# 532
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.9	77.9
61	46.6	37.0	55.6





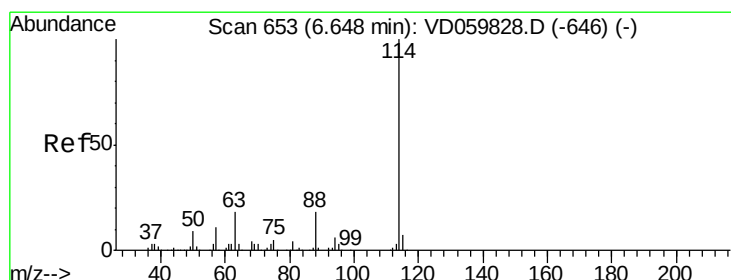
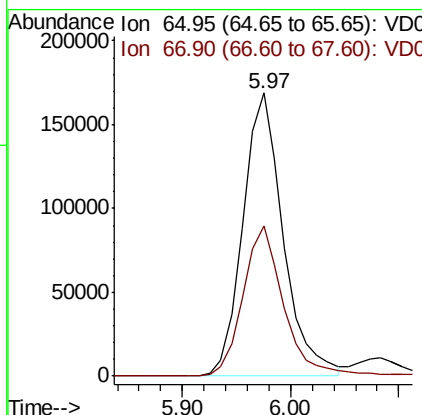
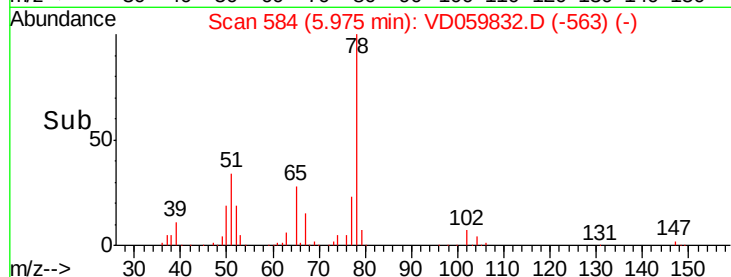
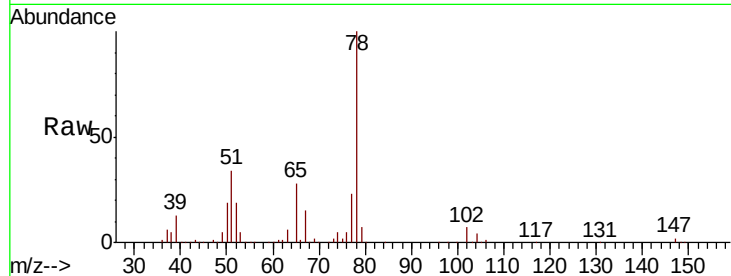
#33
 1,2-Dichloroethane-d4
 Concen: 47.05 ug/l
 RT: 5.97 min Scan# 584
 Delta R.T. 0.01 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.1	0.0	102.4	

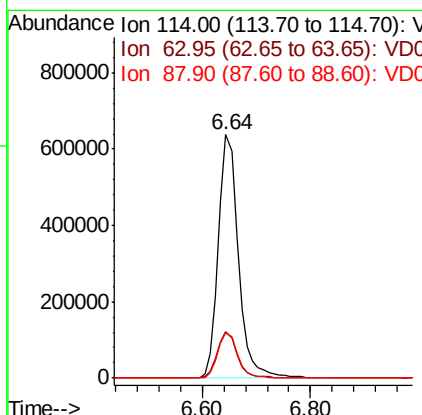
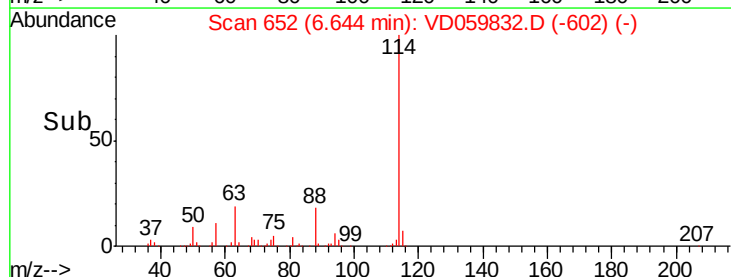
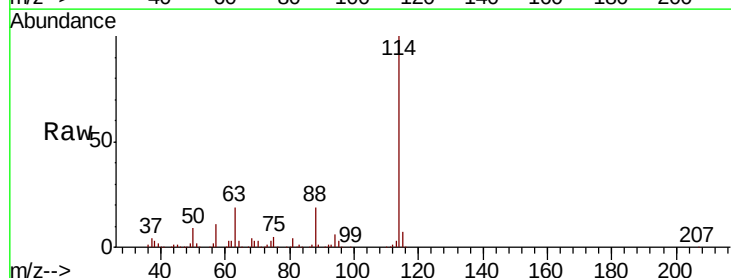
Manual Integrations
 APPROVED

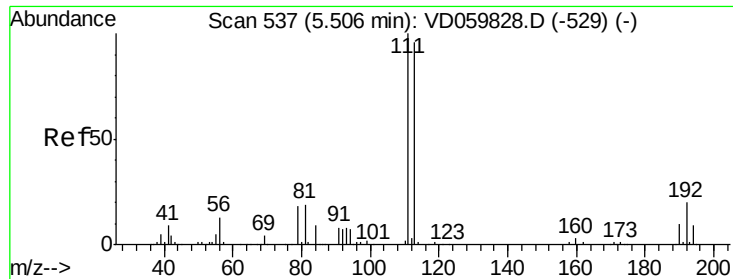
apatel
 8/21/2018 10:23:43 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.64 min Scan# 652
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	19.3	0.0	37.0	
88	18.6	0.0	37.0	





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.50 min Scan# 536

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

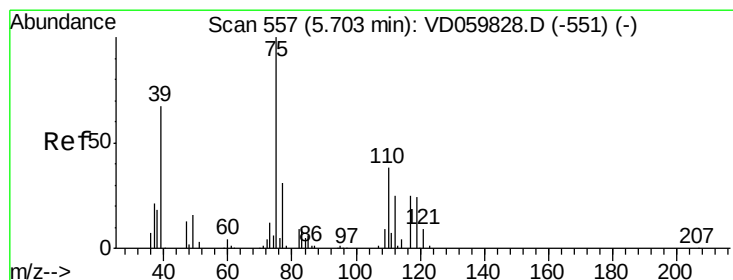
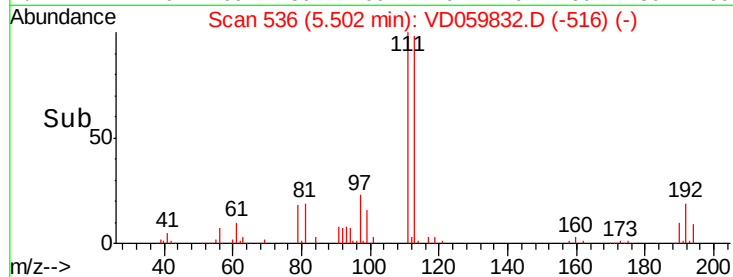
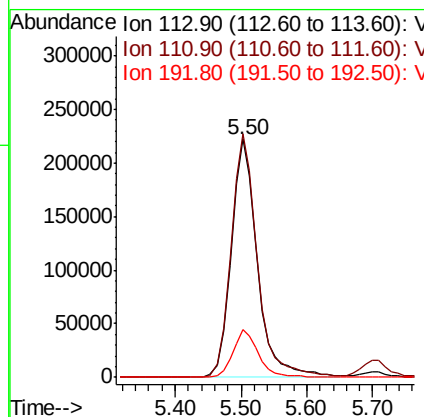
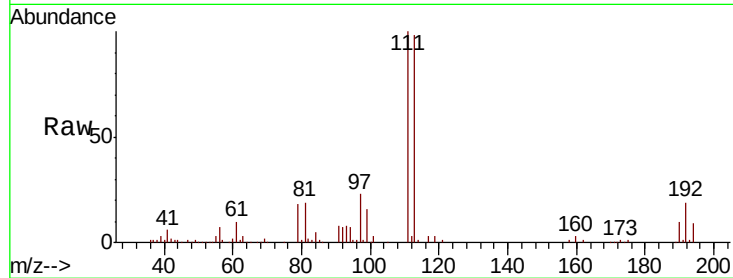
ClientSampleId :

ICVVD082018

Tot Ion:	113	Resp:	615933
Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.3	124.9
192	19.9	16.8	25.2

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#36

1,1-Dichloropropene

Concen: 48.30 ug/l

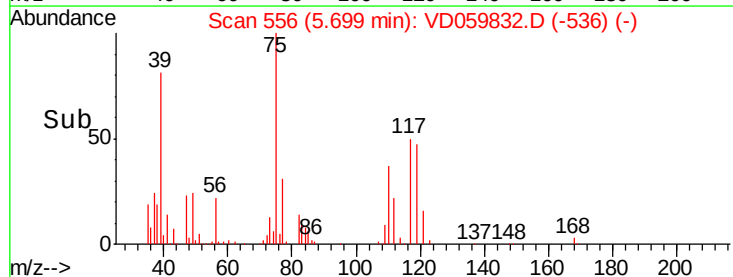
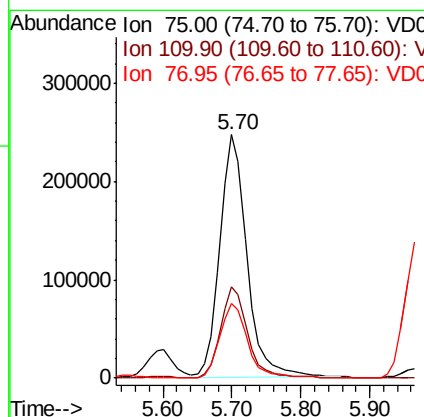
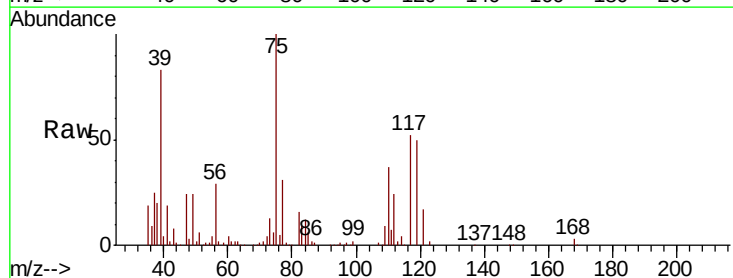
RT: 5.70 min Scan# 556

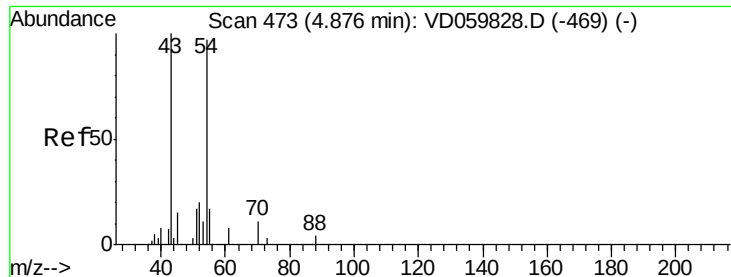
Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	75	Resp:	670685
Ion	Ratio	Lower	Upper
75	100		
110	37.3	18.8	56.4
77	30.5	24.9	37.3





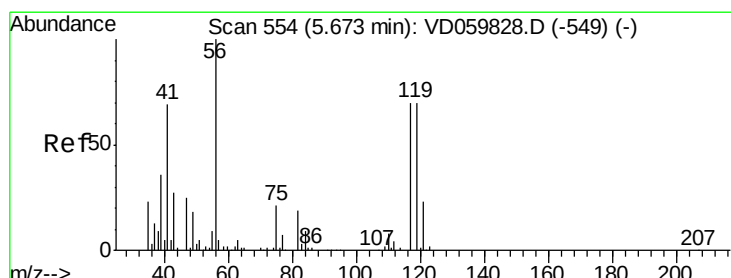
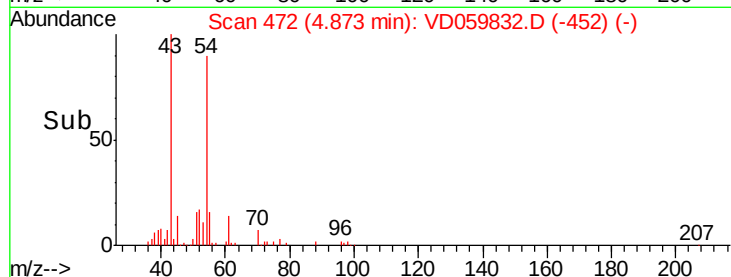
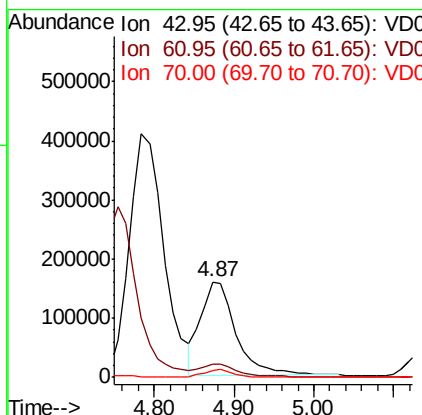
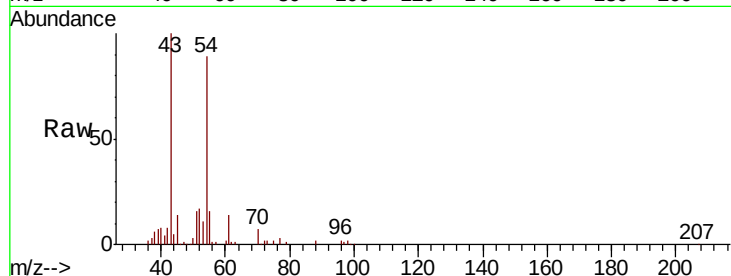
#37
Ethyl Acetate
Concen: 47.24 ug/l
RT: 4.87 min Scan# 472
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.4	15.6
70	6.9	6.2	9.2

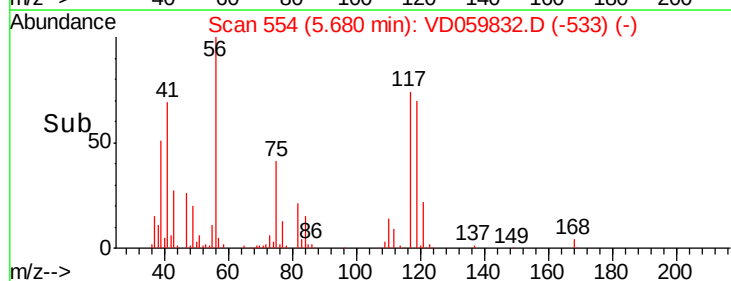
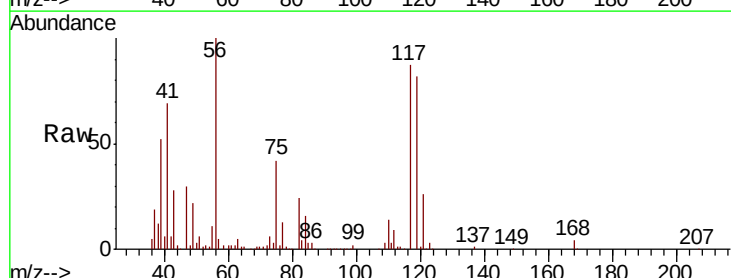
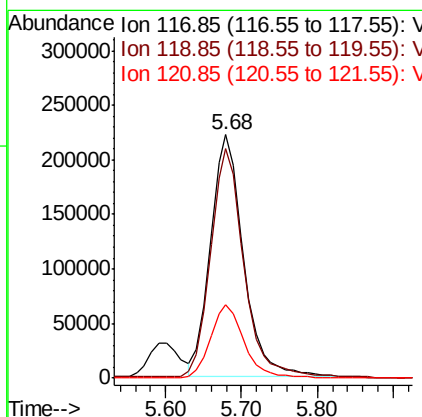
Manual Integrations
APPROVED

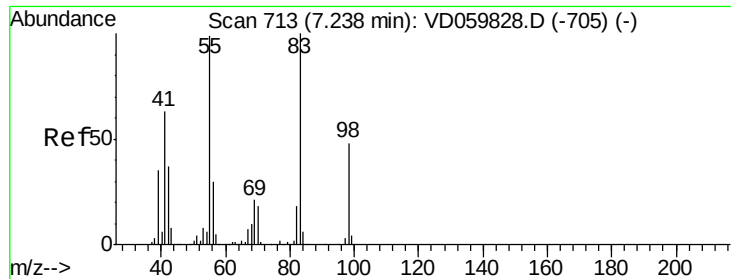
apatel
8/21/2018 10:23:43 AM



#38
Carbon Tetrachloride
Concen: 48.21 ug/l
RT: 5.68 min Scan# 554
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	77.0	115.4
121	30.0	24.7	37.1





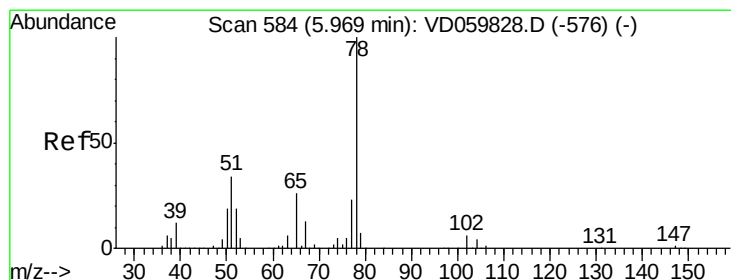
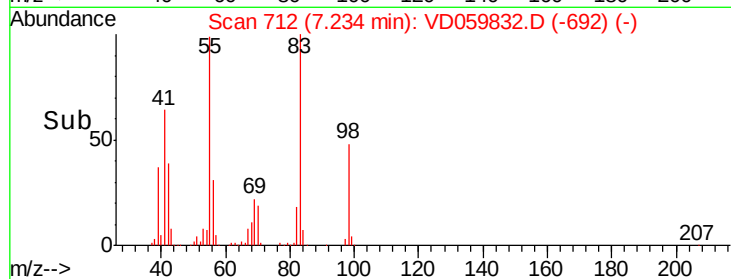
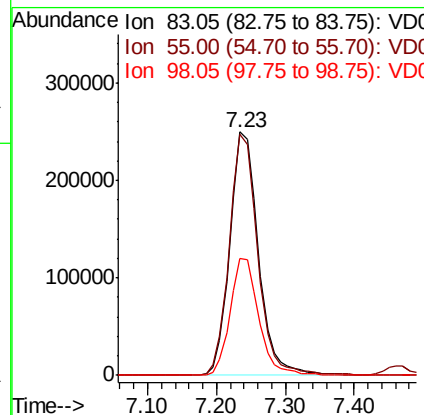
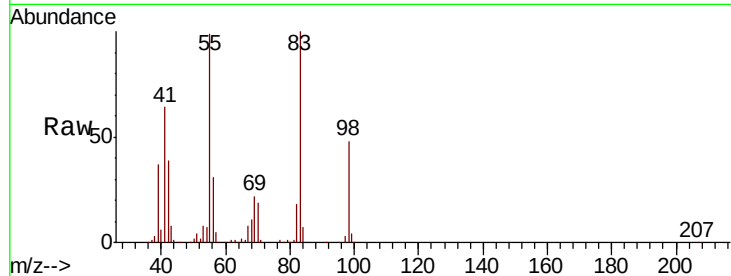
#39
Methylvlcyclohexane
Concen: 48.40 ug/l
RT: 7.23 min Scan# 712
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	99.2	79.0	118.6	
98	48.3	38.1	57.1	

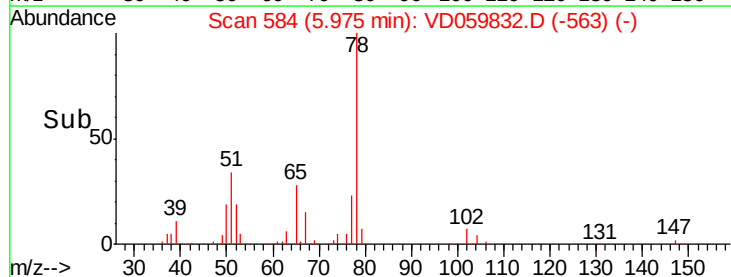
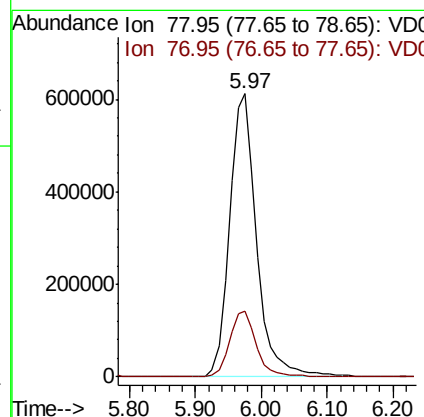
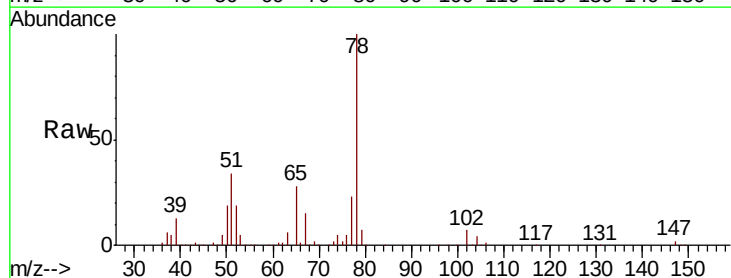
Manual Integrations
APPROVED

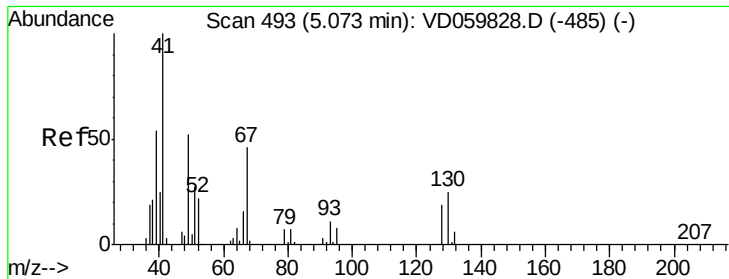
apatel
8/21/2018 10:23:43 AM



#40
Benzene
Concen: 48.63 ug/l
RT: 5.97 min Scan# 584
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.3	18.8	28.2	





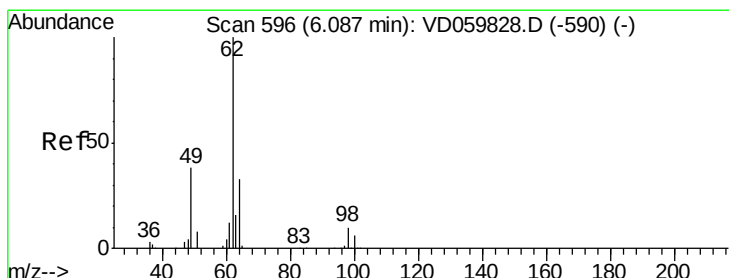
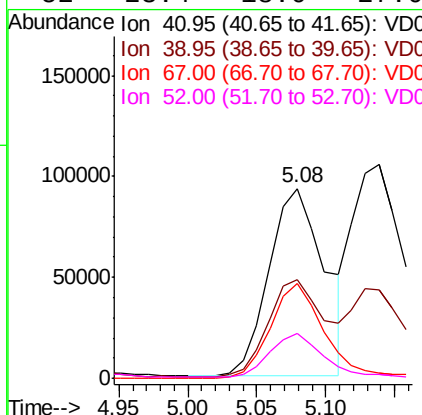
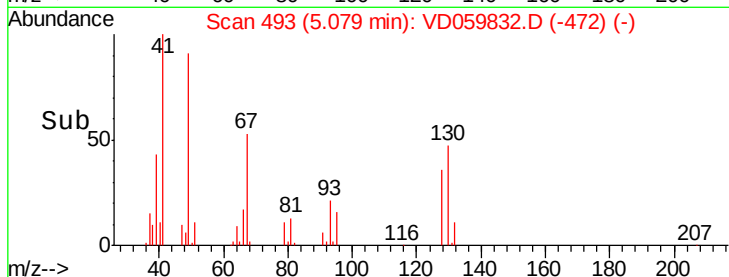
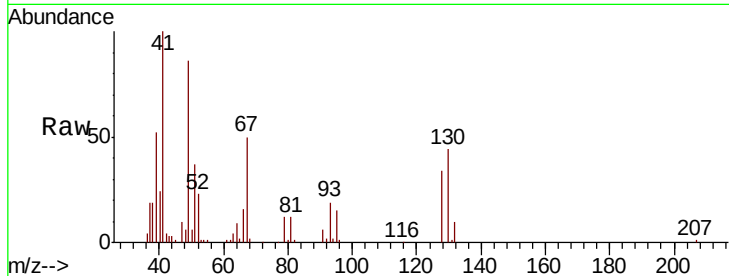
#41
Methacrylonitrile
Concen: 49.44 ug/l
RT: 5.08 min Scan# 493
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		260732		
39	51.7	43.0	64.6		
67	49.9	36.7	55.1		
52	23.4	18.0	27.0		

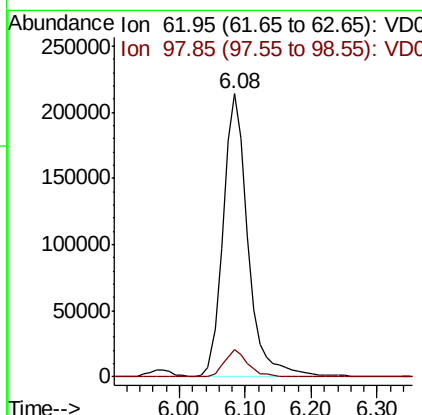
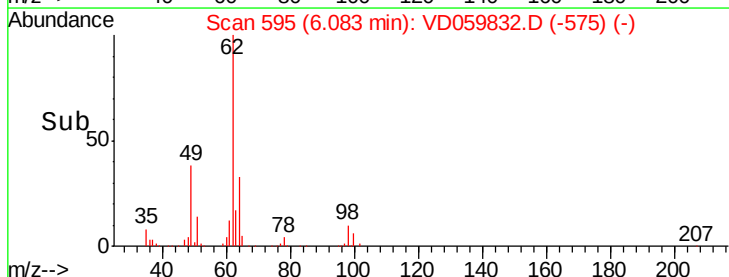
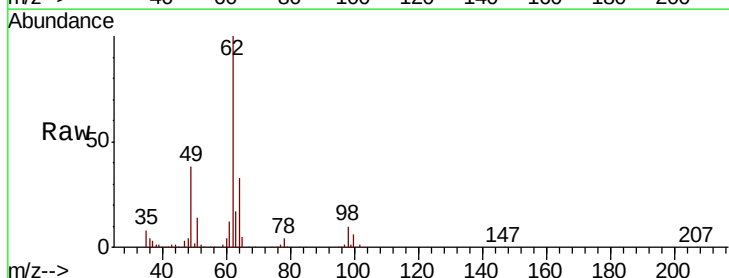
Manual Integrations
APPROVED

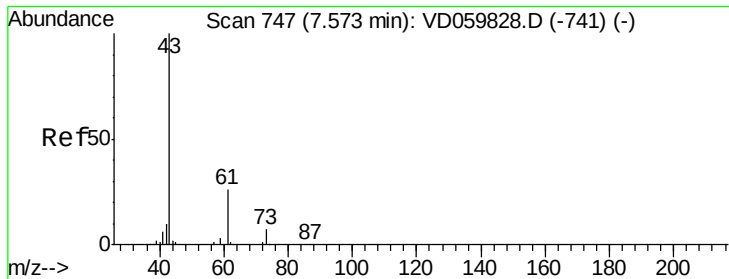
apatel
8/21/2018 10:23:43 AM



#42
1,2-Dichloroethane
Concen: 47.85 ug/l
RT: 6.08 min Scan# 595
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		560609		
98	9.7	0.0	19.4		





#43

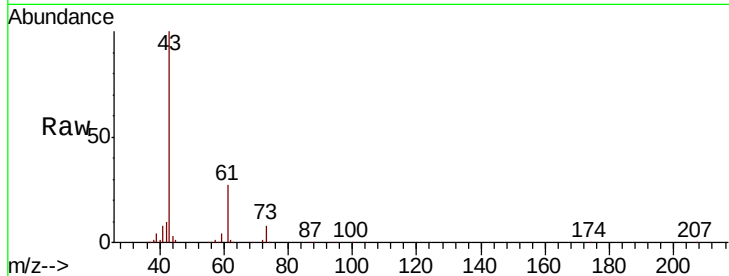
Isopropyl Acetate
 Concen: 46.45 ug/l
 RT: 7.57 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

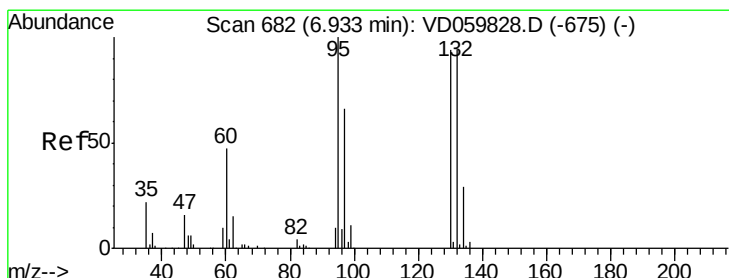
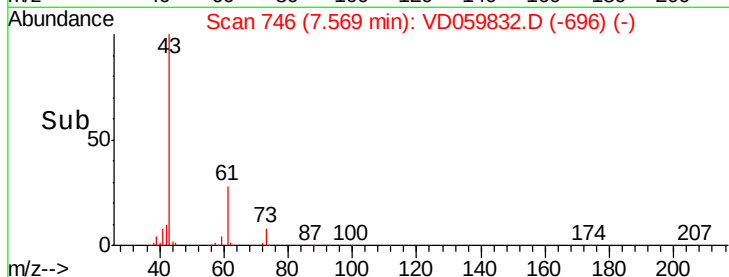
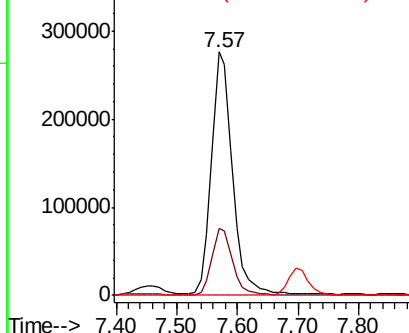
Tot Ion	Ratio	Lower	Upper
43	100		
61	27.5	21.0	31.4
87	0.2	0.2	0.4

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM



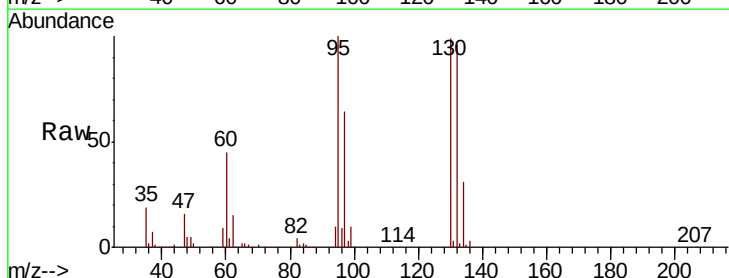
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



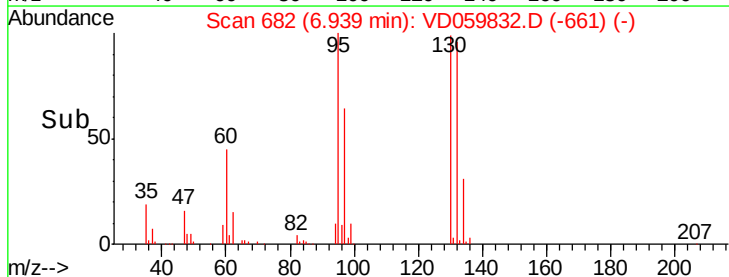
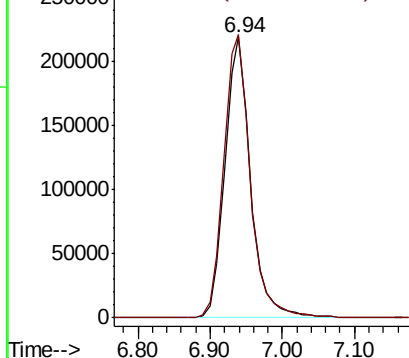
#44

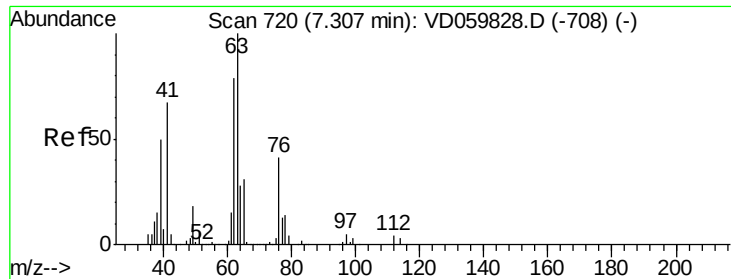
Trichloroethene
 Concen: 50.25 ug/l
 RT: 6.94 min Scan# 682
 Delta R.T. 0.01 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	213.0



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 47.52 ug/l

RT: 7.30 min Scan# 719

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 63 Resp: 502057

Ion Ratio Lower Upper

63 100

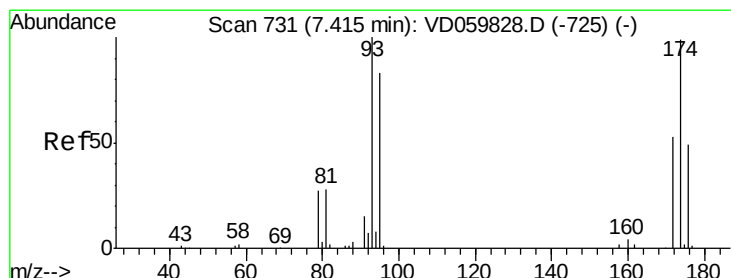
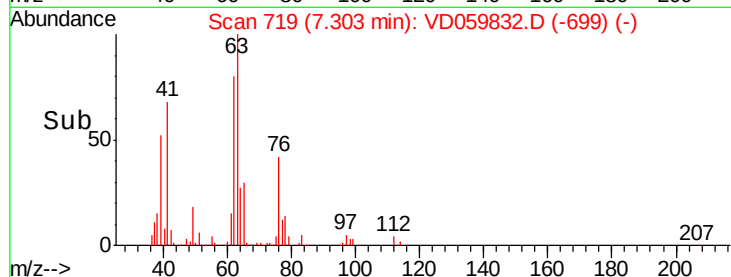
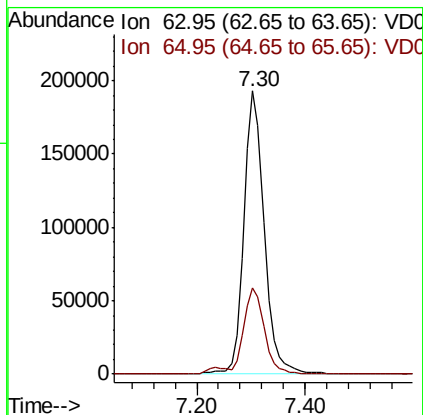
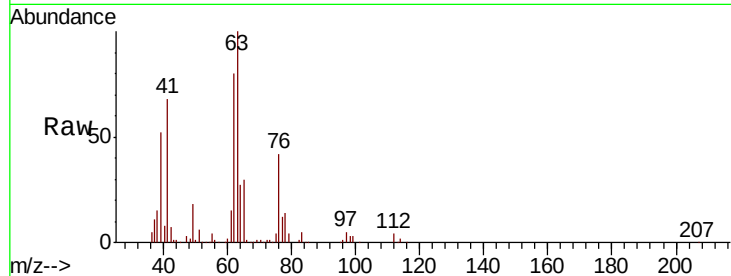
65 30.4 24.5 36.7

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



#46

Dibromomethane

Concen: 48.82 ug/l

RT: 7.42 min Scan# 731

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

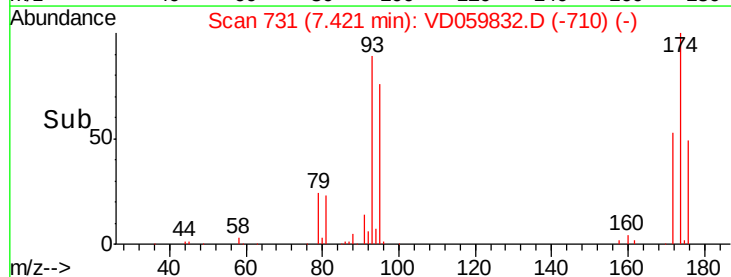
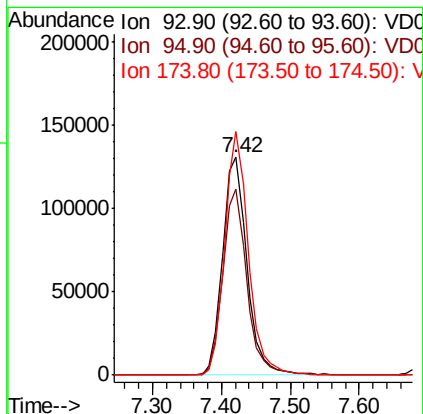
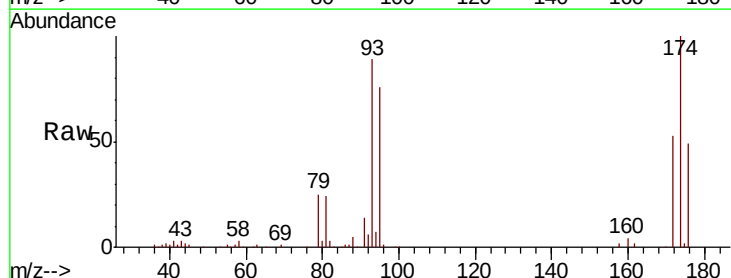
Tgt Ion: 93 Resp: 321131

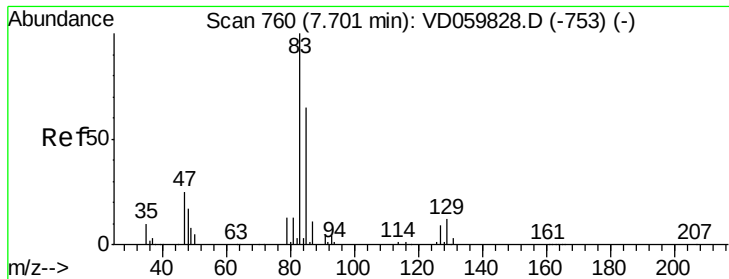
Ion Ratio Lower Upper

93 100

95 85.3 66.3 99.5

174 111.7 79.4 119.0





#47

Bromodichloromethane

Concen: 48.78 ug/l

RT: 7.70 min Scan# 759

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

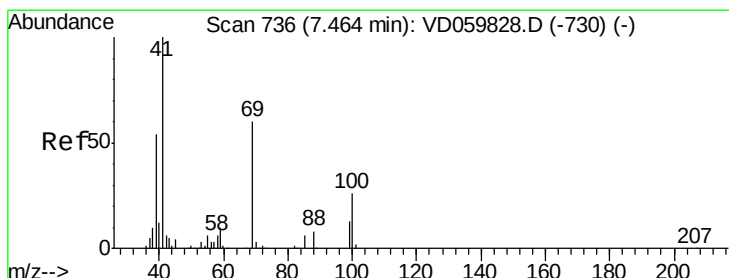
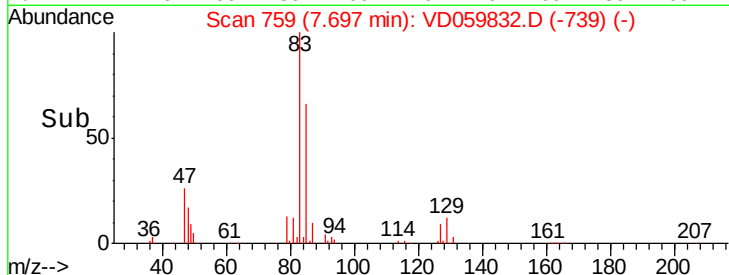
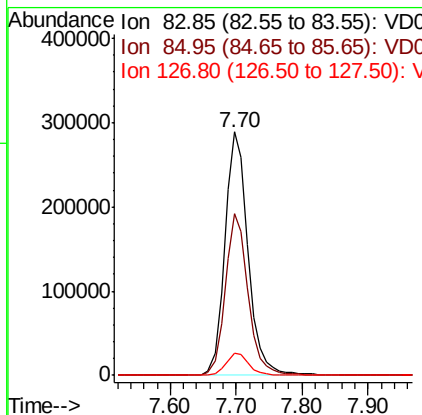
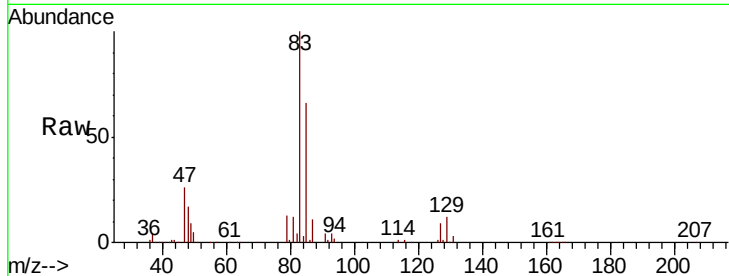
ClientSampleId :

ICVVD082018

Tot Ion:	83	Resp:	708466
Ion	Ratio	Lower	Upper
83	100		
85	66.3	52.2	78.4
127	9.2	7.1	10.7

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#48

Methyl methacrylate

Concen: 48.59 ug/l

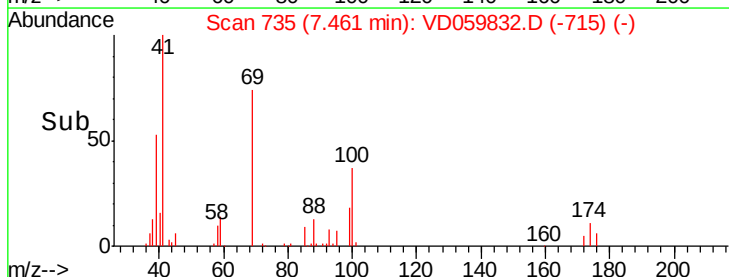
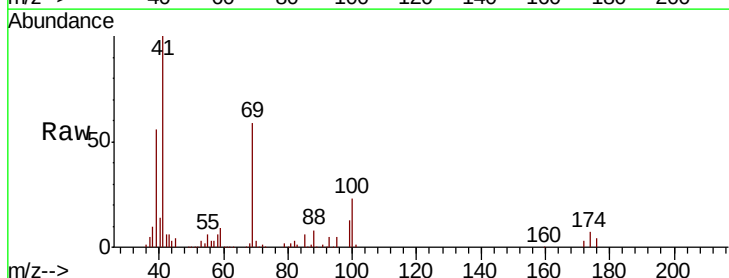
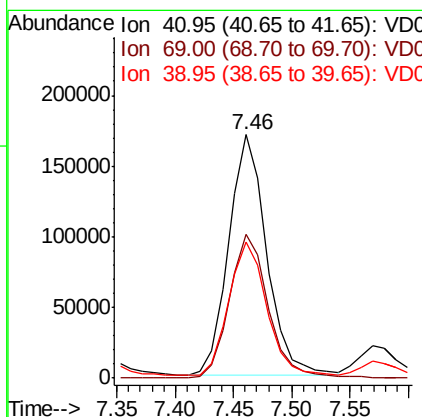
RT: 7.46 min Scan# 735

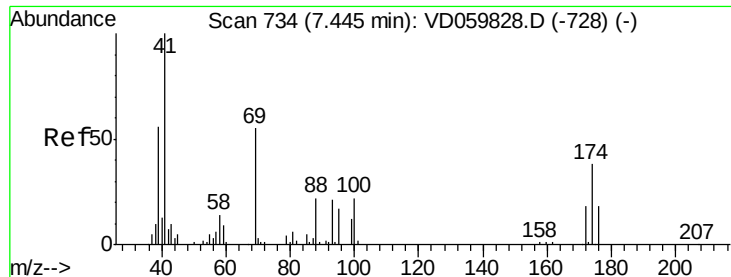
Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	41	Resp:	381595
Ion	Ratio	Lower	Upper
41	100		
69	59.3	47.0	70.4
39	56.0	43.4	65.2





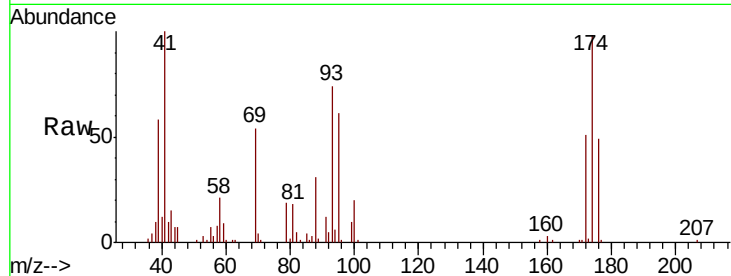
#49
1,4-Dioxane
Concen: 1021.53 ug/l
RT: 7.44 min Scan# 733
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

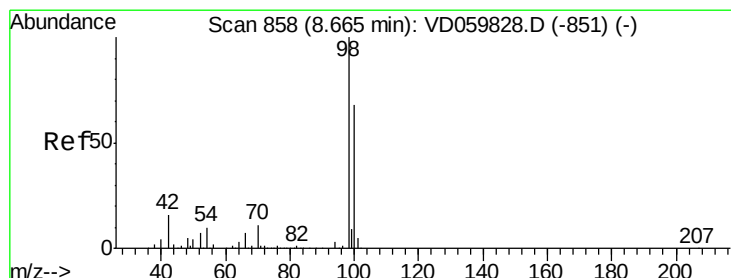
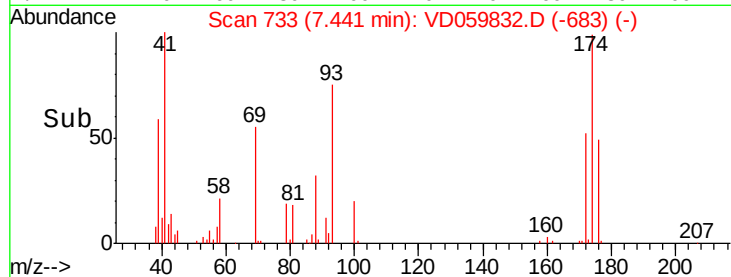
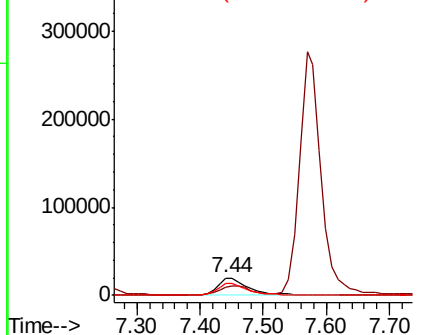
Tot Ion	Ratio	Resp	Lower	Upper
88	100	67884		
43	47.5	41.4	62.0	
58	65.7	52.4	78.6	

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM

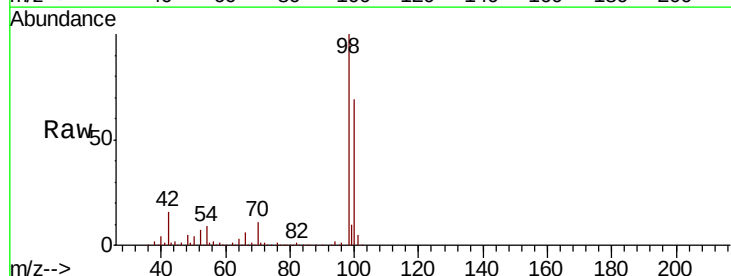


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

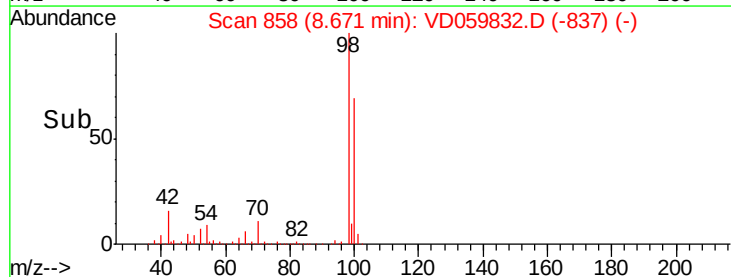
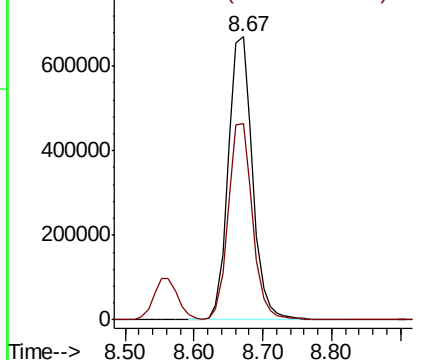


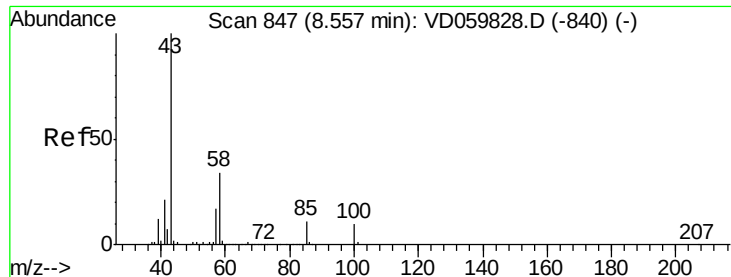
#50
Toluene-d8
Concen: 1021.53 ug/l
RT: 8.67 min Scan# 858
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	1631180		
100	69.4	55.0	82.4	



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 266.43 ug/l

RT: 8.55 min Scan# 846

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleID :

ICVVD082018

Tot Ion: 43 Resp: 2536131

Ion Ratio Lower Upper

43 100

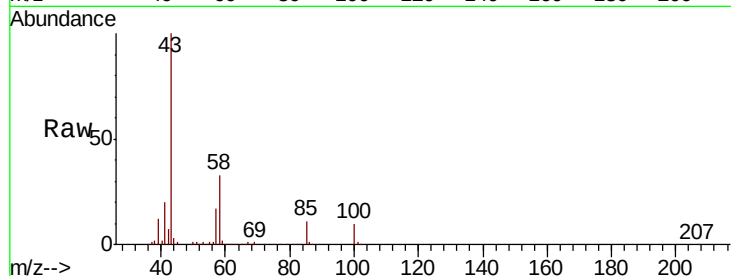
58 33.4 27.0 40.4

Manual Integrations

APPROVED

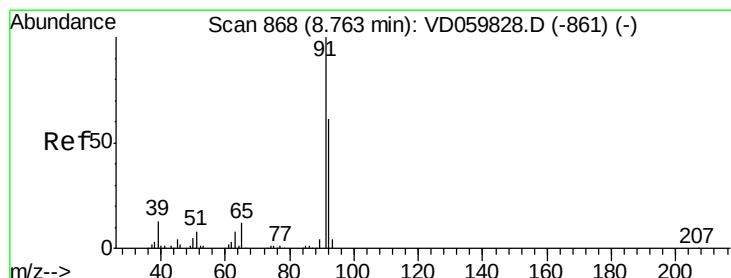
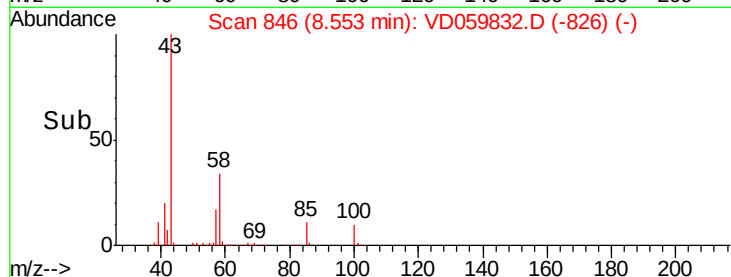
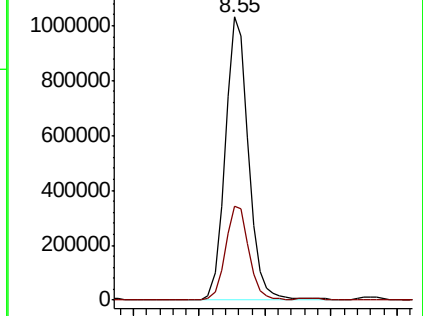
apatel

8/21/2018 10:23:43 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 49.54 ug/l

RT: 8.76 min Scan# 867

Delta R.T. -0.00 min

Lab File: VD059832.D

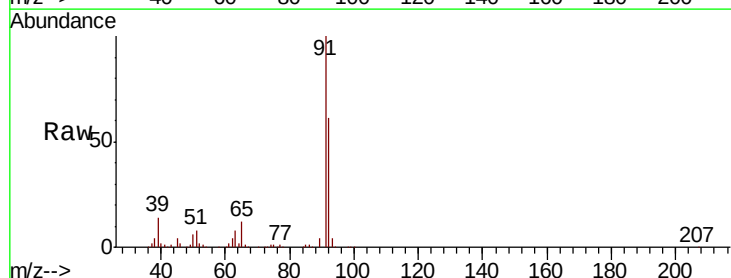
Acq: 20 Aug 2018 15:35

Tgt Ion: 92 Resp: 1126919

Ion Ratio Lower Upper

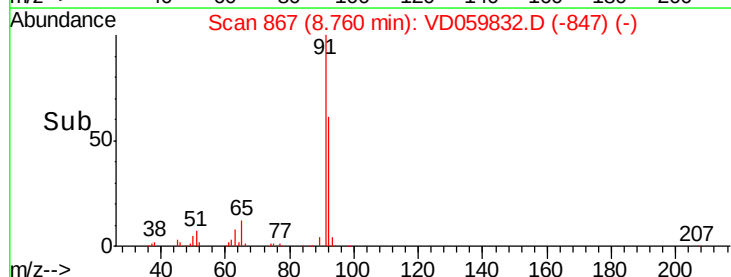
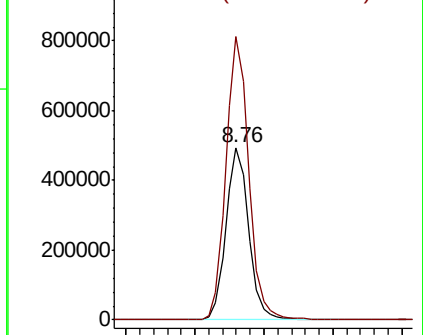
92 100

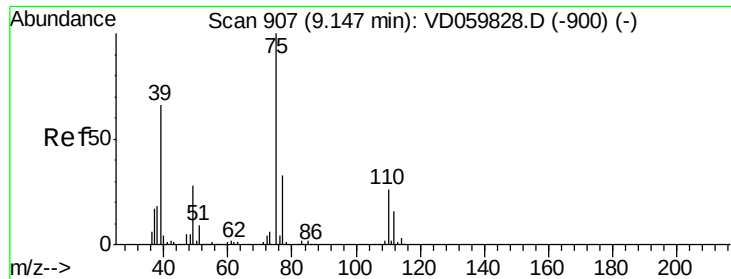
91 164.5 131.7 197.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





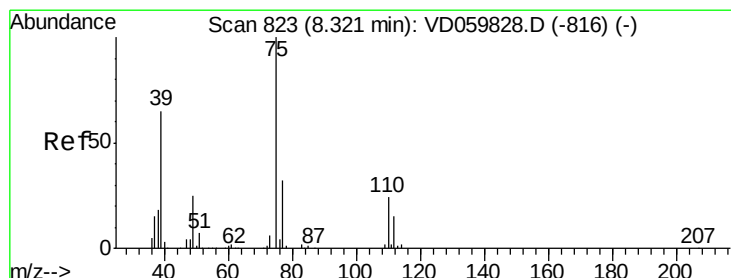
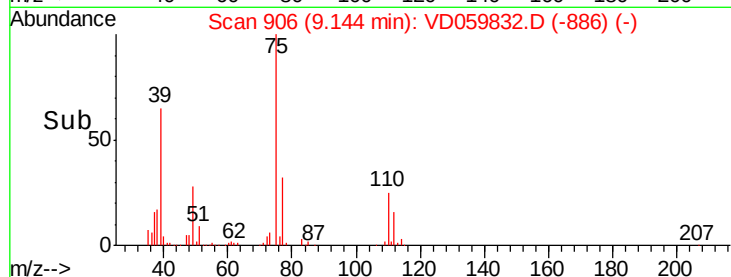
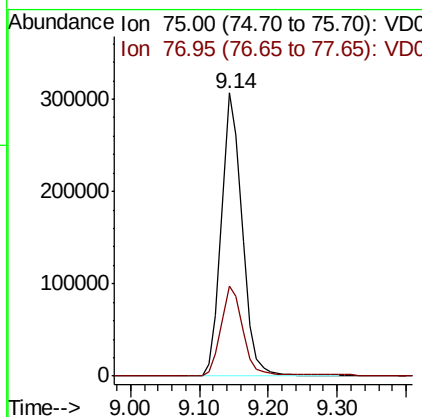
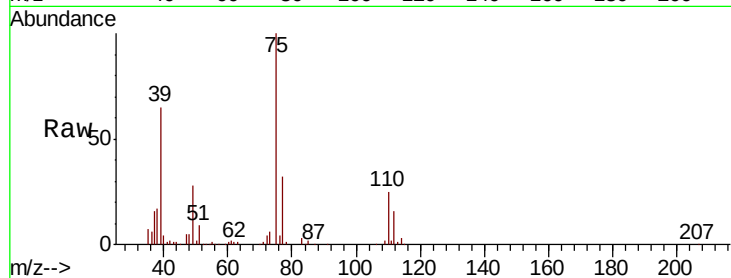
#53
t-1,3-Dichloropropene
Concen: 48.56 ug/l
RT: 9.14 min Scan# 906
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion: 75 Resp: 642339
Ion Ratio Lower Upper
75 100
77 32.0 26.3 39.5

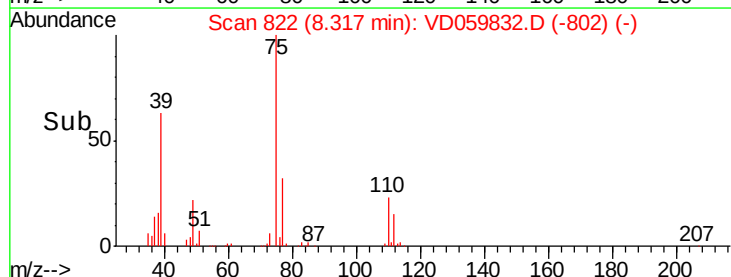
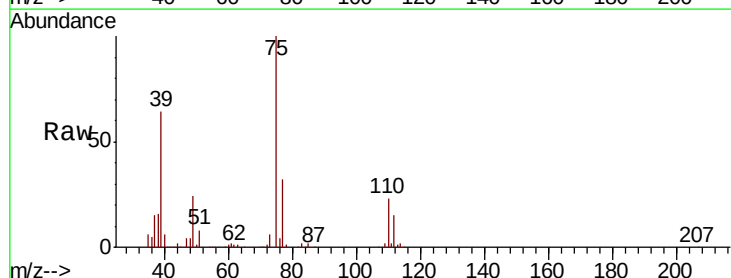
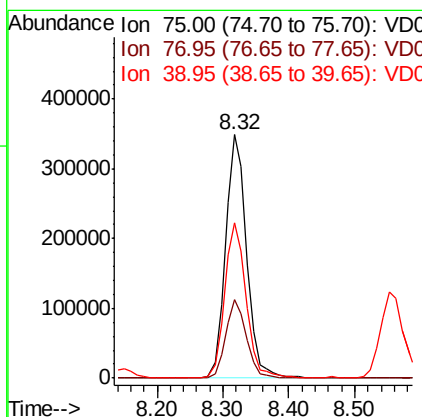
Manual Integrations
APPROVED

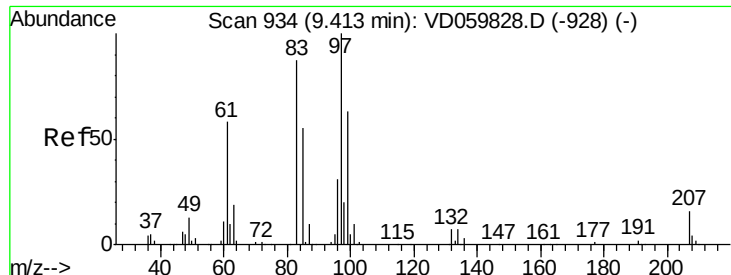
apatel
8/21/2018 10:23:43 AM



#54
cis-1,3-Dichloropropene
Concen: 49.27 ug/l
RT: 8.32 min Scan# 822
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion: 75 Resp: 780659
Ion Ratio Lower Upper
75 100
77 32.2 25.8 38.8
39 63.5 52.2 78.4





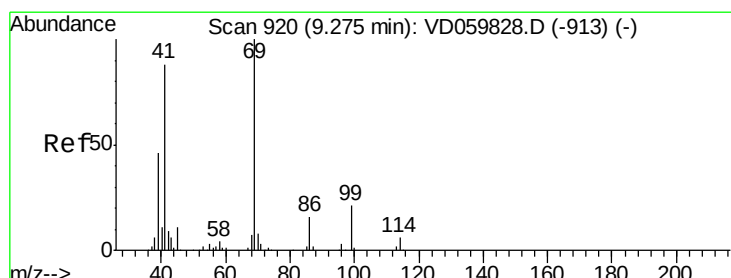
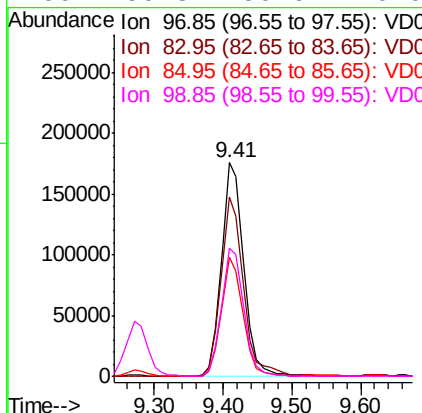
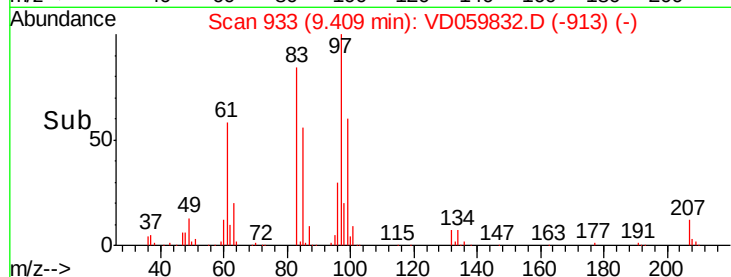
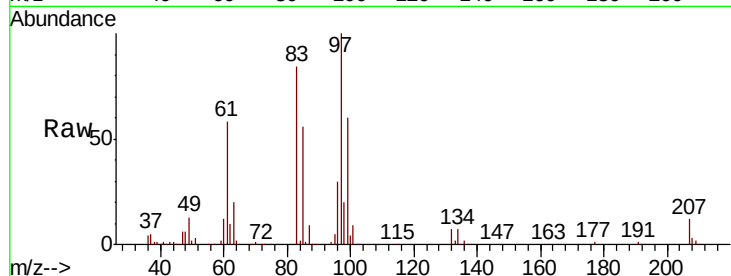
#55
 1,1,2-Trichloroethane
 Concen: 47.88 ug/l
 RT: 9.41 min Scan# 933
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

Tot Ion	Ratio	Resp	Lower	Upper
97	100	393188		
83	84.0	69.2	103.8	
85	55.5	44.3	66.5	
99	59.8	50.6	76.0	

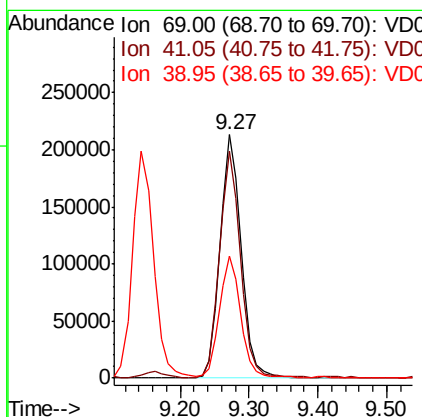
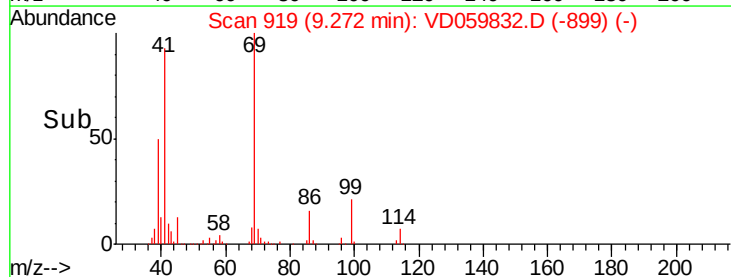
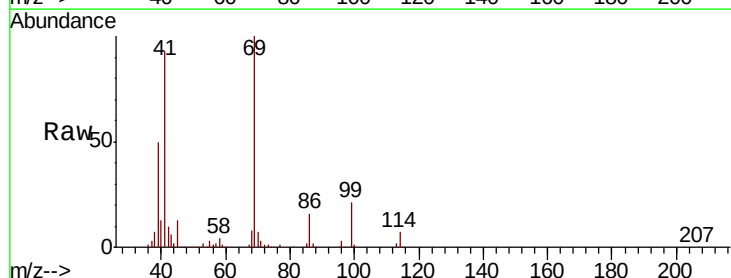
Manual Integrations
 APPROVED

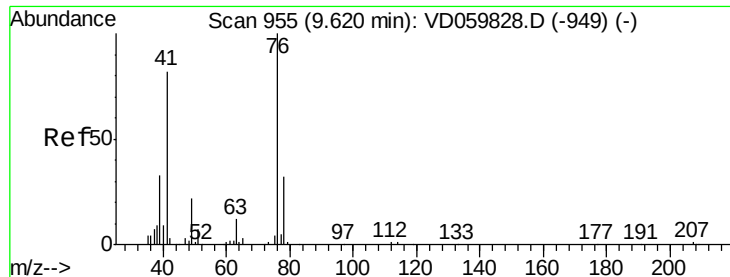
apatel
 8/21/2018 10:23:43 AM



#56
 Ethyl methacrylate
 Concen: 47.82 ug/l
 RT: 9.27 min Scan# 919
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
69	100	452877		
41	93.0	71.0	106.4	
39	50.2	38.0	57.0	





#57

1,3-Dichloropropane

Concen: 47.45 ug/l

RT: 9.63 min Scan# 955

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tot Ion: 76 Resp: 569683

Ion Ratio Lower Upper

76 100

78 32.3 25.5 38.3

Instrument :

MSVOA_D

ClientSampleId :

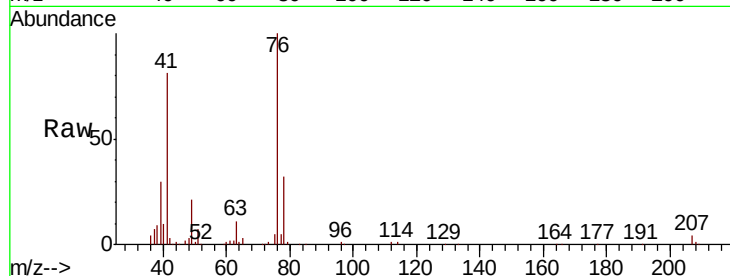
ICVVD082018

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

9.63

250000

200000

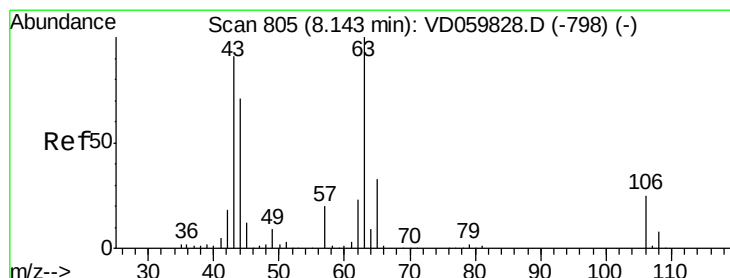
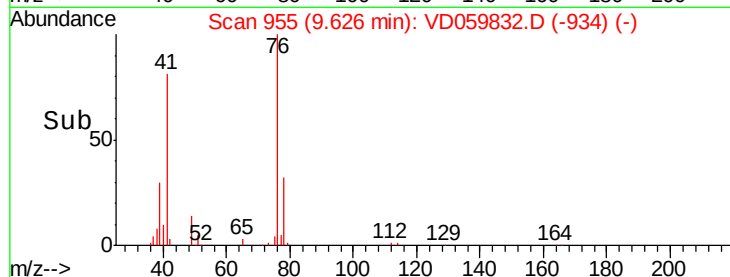
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 219.43 ug/l

RT: 8.15 min Scan# 805

Delta R.T. 0.01 min

Lab File: VD059832.D

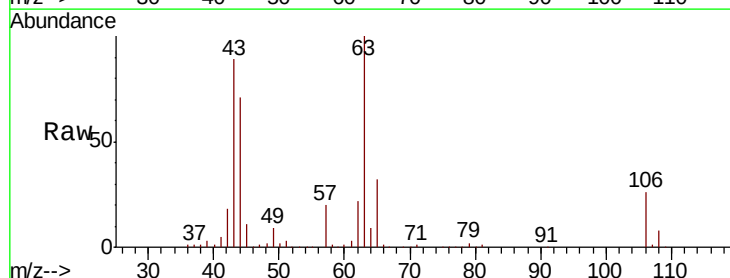
Acq: 20 Aug 2018 15:35

Tgt Ion: 63 Resp: 1157387

Ion Ratio Lower Upper

63 100

106 25.8 19.6 29.4



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC

8.15

600000

500000

400000

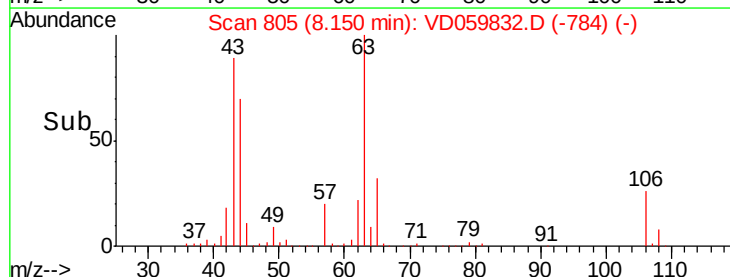
300000

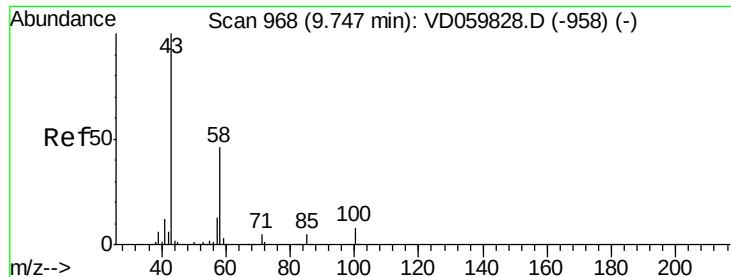
200000

100000

0

Time-->





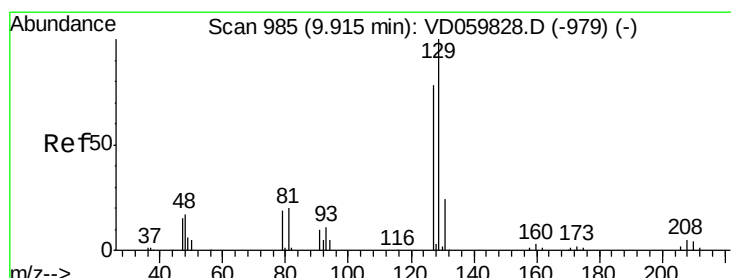
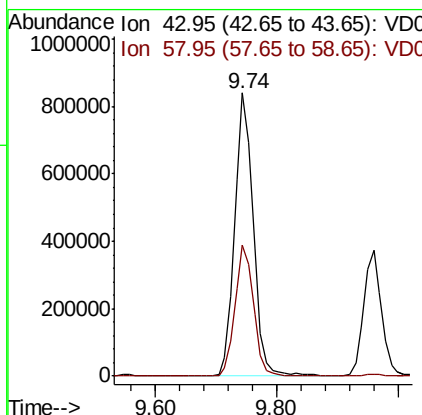
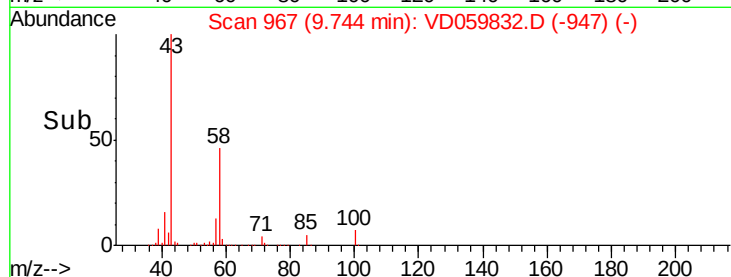
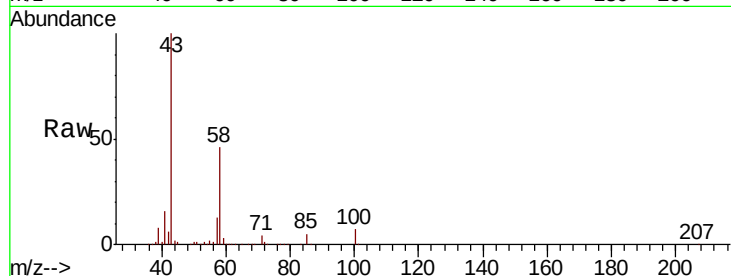
#59
2-Hexanone
Concen: 254.36 ug/l
RT: 9.74 min Scan# 967
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion: 43 Resp: 1789621
Ion Ratio Lower Upper
43 100
58 46.2 23.1 69.2

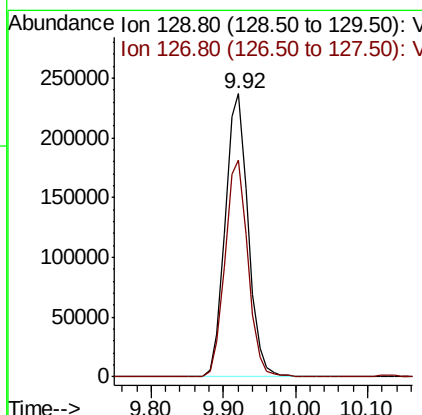
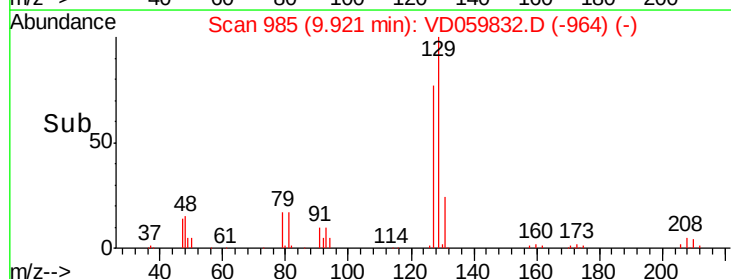
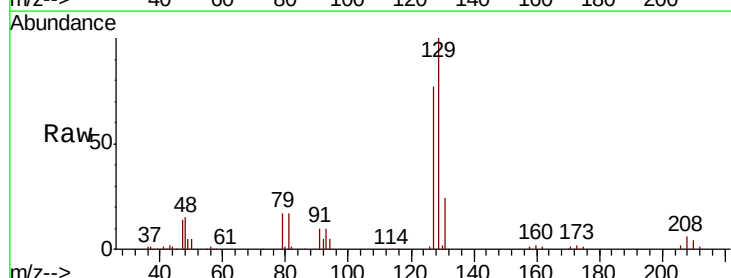
Manual Integrations
APPROVED

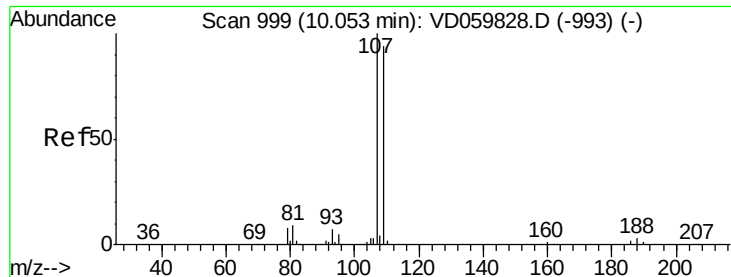
apatel
8/21/2018 10:23:43 AM



#60
Dibromochloromethane
Concen: 49.26 ug/l
RT: 9.92 min Scan# 985
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion: 129 Resp: 520948
Ion Ratio Lower Upper
129 100
127 76.8 39.0 116.9





#61

1,2-Dibromoethane

Concen: 48.39 ug/l

RT: 10.06 min Scan# 999

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion:107 Resp: 424648

Ion Ratio Lower Upper

107 100

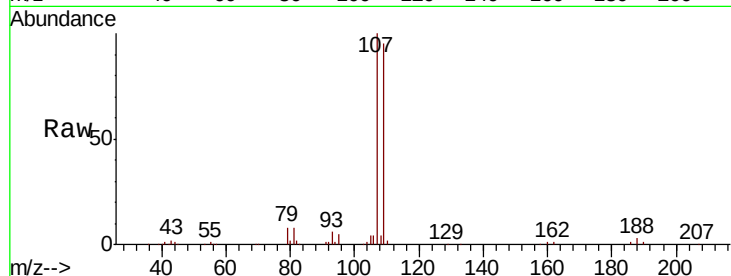
109 95.0 75.0 112.6

Manual Integrations

APPROVED

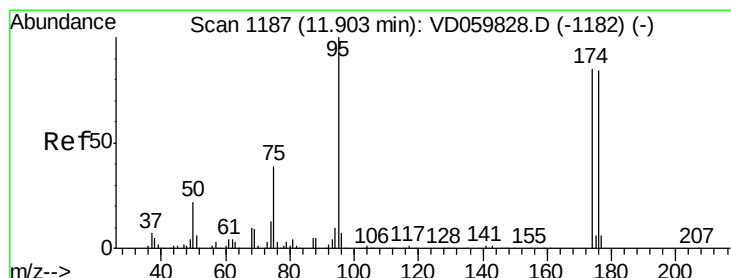
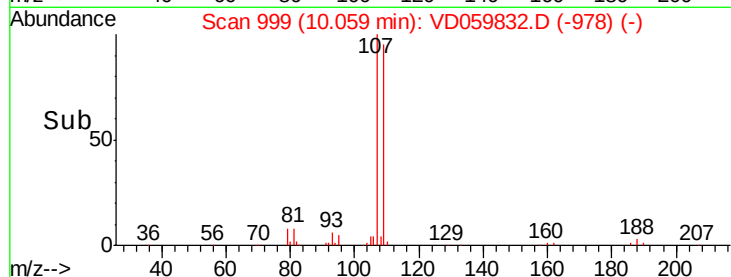
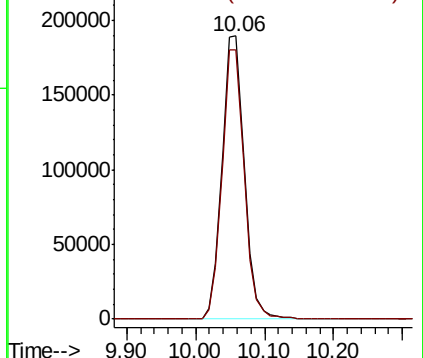
apatel

8/21/2018 10:23:43 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 48.39 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

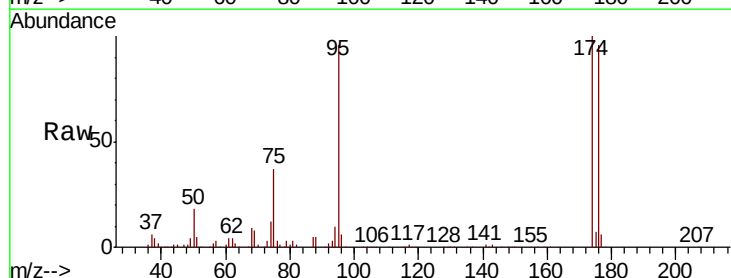
Tgt Ion: 95 Resp: 624395

Ion Ratio Lower Upper

95 100

174 103.8 0.0 169.2

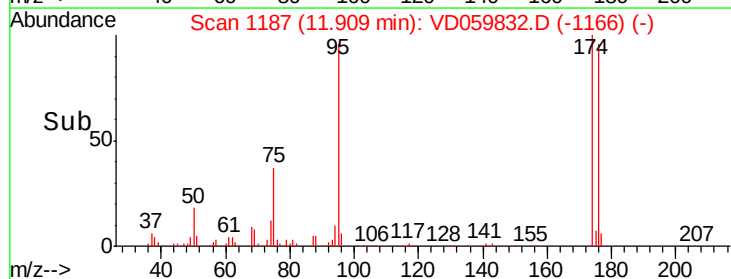
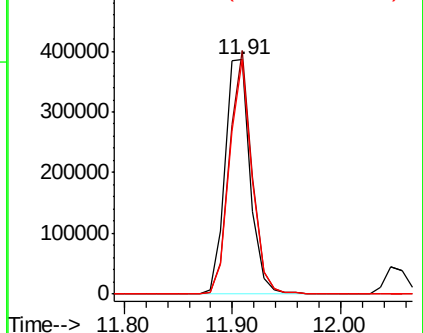
176 100.1 0.0 168.0

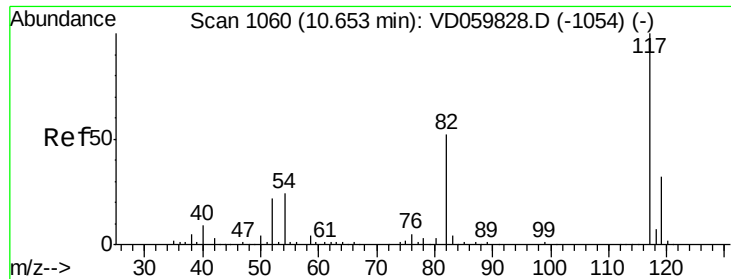


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





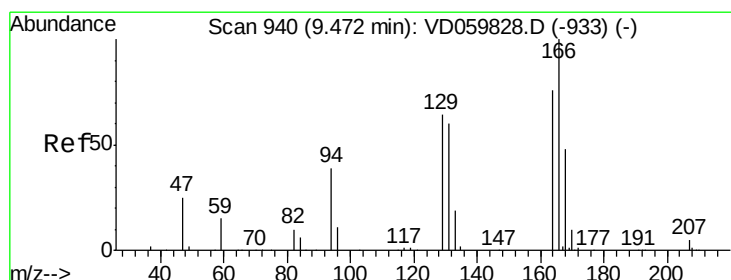
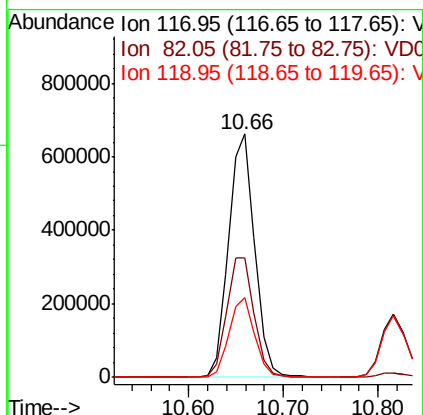
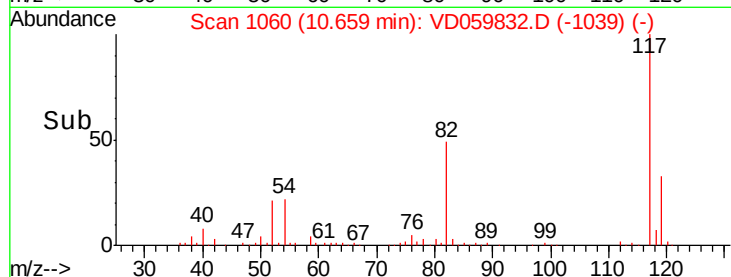
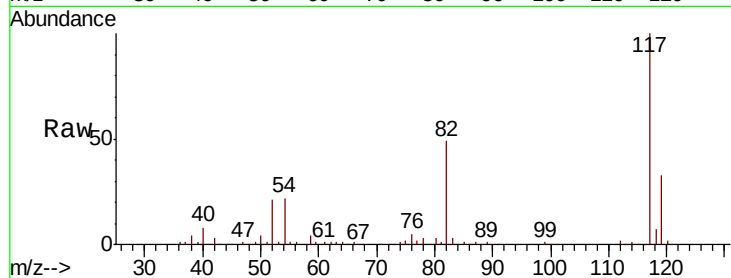
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.66 min Scan# 1060
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.0	41.6	62.4
119	32.5	25.6	38.4

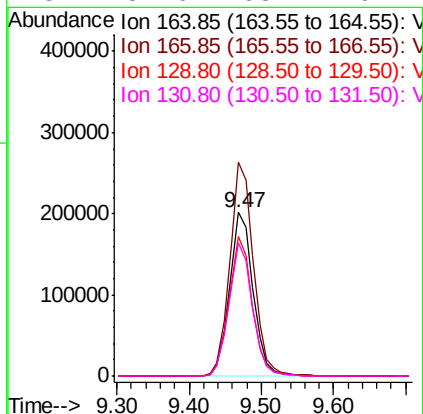
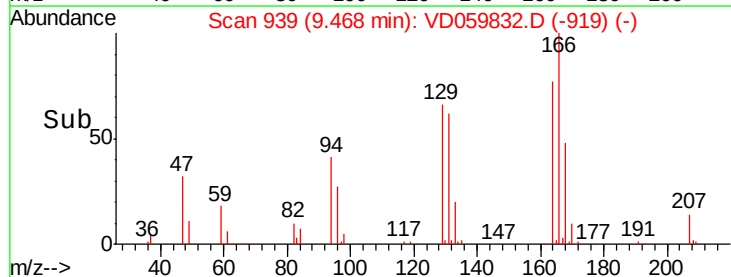
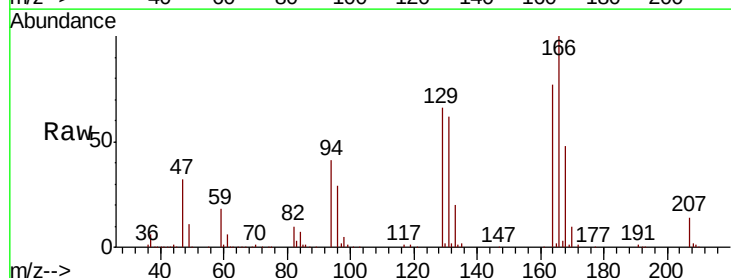
Manual Integrations
APPROVED

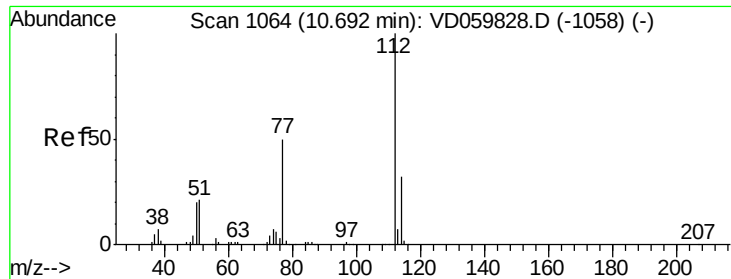
apatel
8/21/2018 10:23:43 AM



#64
Tetrachloroethene
Concen: 49.78 ug/l
RT: 9.47 min Scan# 939
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.7	104.9	157.3
129	85.7	66.7	100.1
131	81.6	63.1	94.7





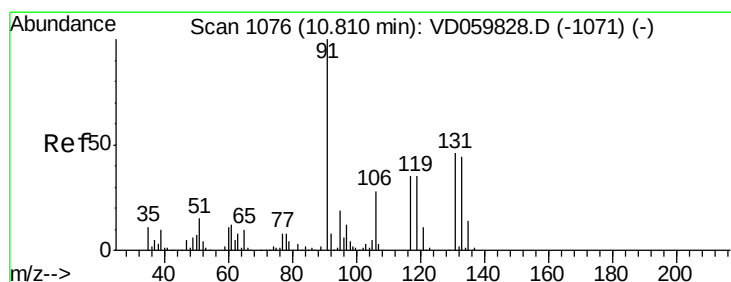
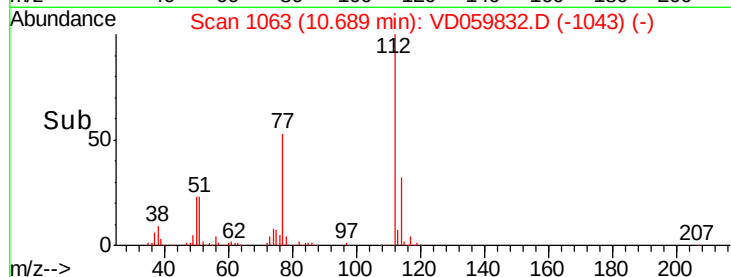
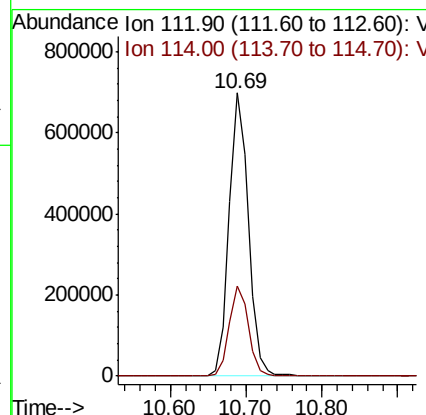
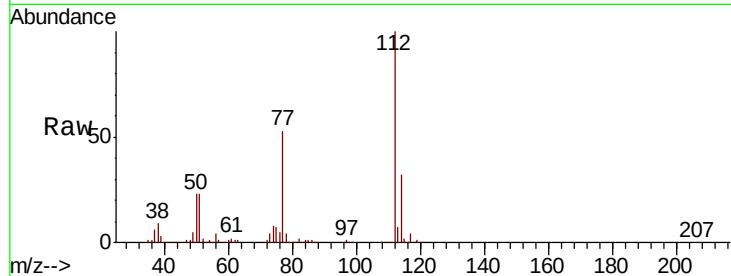
#65
Chlorobenzene
Concen: 50.72 ug/l
RT: 10.69 min Scan# 1063
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion:112 Resp: 1234228
Ion Ratio Lower Upper
112 100
114 31.9 25.7 38.5

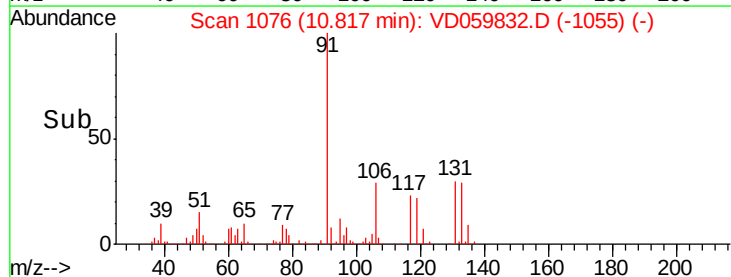
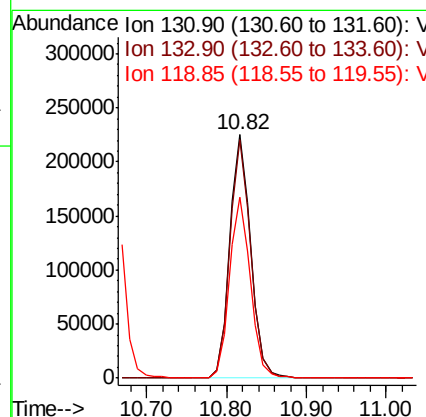
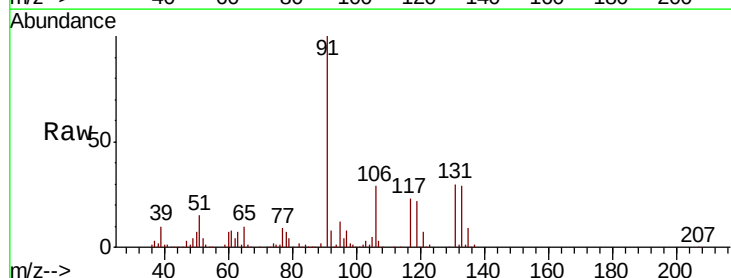
Manual Integrations
APPROVED

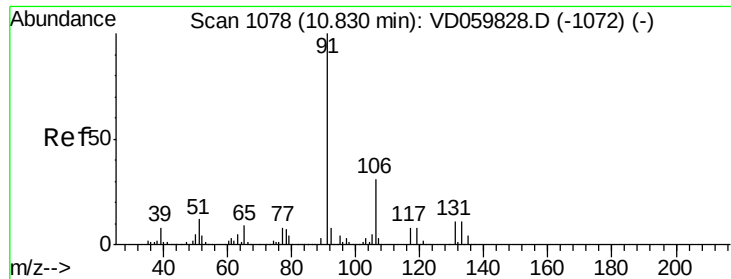
apatel
8/21/2018 10:23:43 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.36 ug/l
RT: 10.82 min Scan# 1076
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion:131 Resp: 418252
Ion Ratio Lower Upper
131 100
133 97.8 47.1 141.4
119 74.5 37.5 112.7





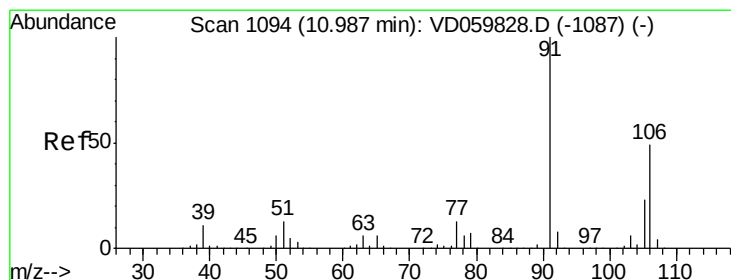
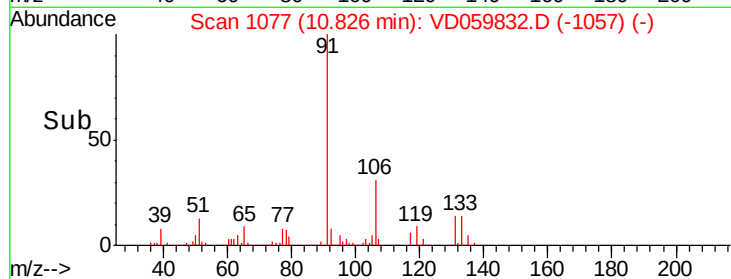
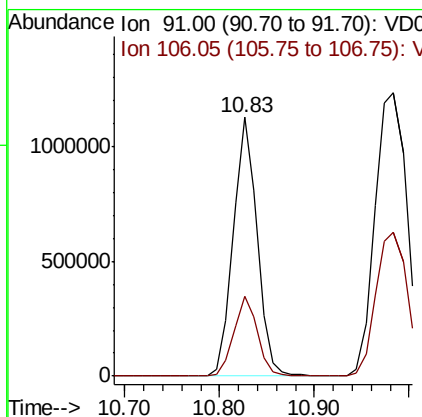
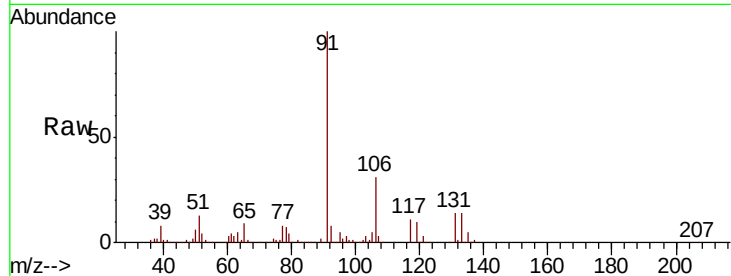
#67
Ethyl Benzene
Concen: 49.49 ug/l
RT: 10.83 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion: 91 Resp: 1967280
Ion Ratio Lower Upper
91 100
106 30.7 25.1 37.7

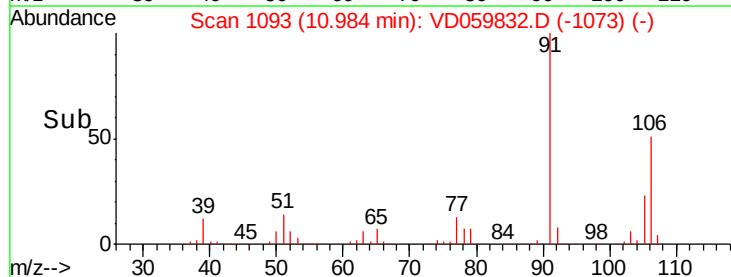
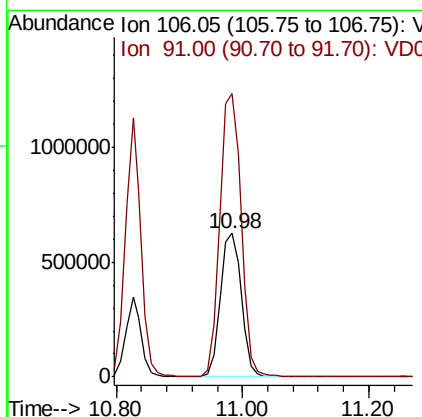
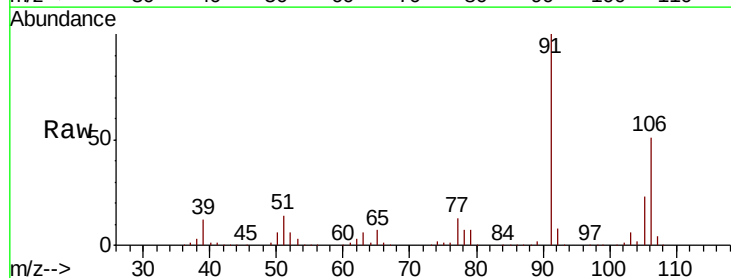
Manual Integrations
APPROVED

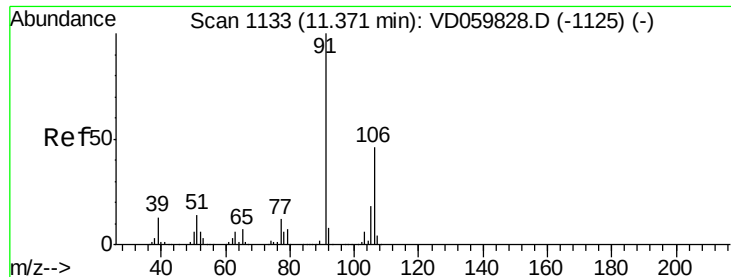
apatel
8/21/2018 10:23:43 AM



#68
m/p-Xylenes
Concen: 98.99 ug/l
RT: 10.98 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion:106 Resp: 1451745
Ion Ratio Lower Upper
106 100
91 196.8 161.8 242.8





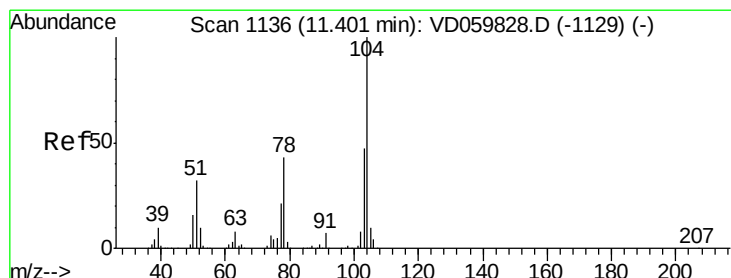
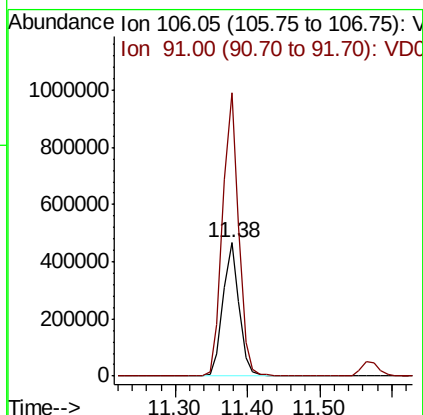
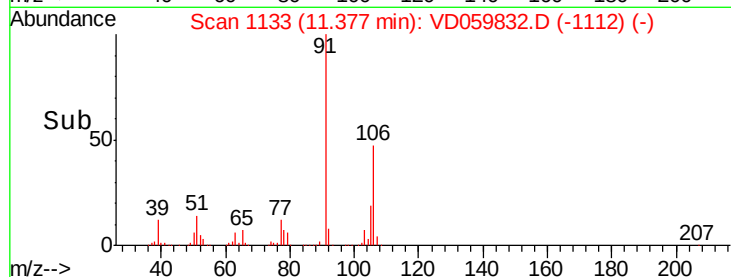
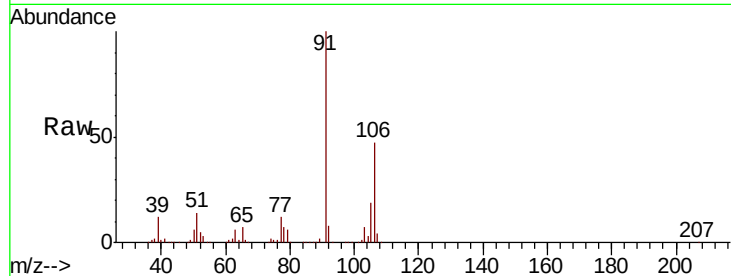
#69
o-Xylene
Concen: 50.93 ug/l
RT: 11.38 min Scan# 1133
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Resp	Lower	Upper
106	100	718151		
91	212.7	108.5	325.3	

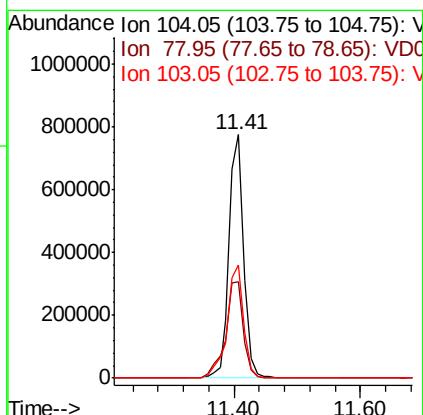
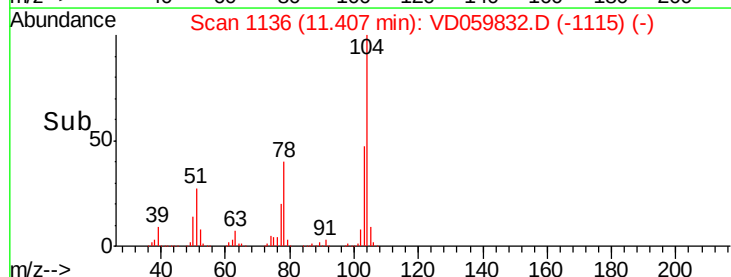
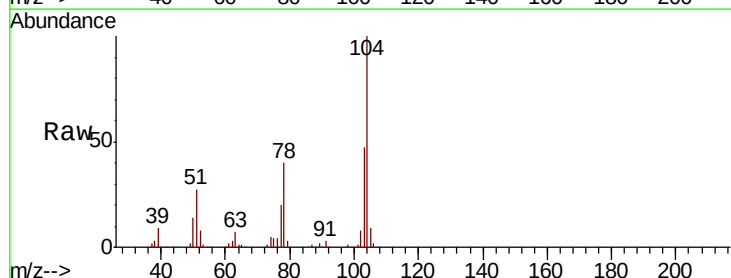
Manual Integrations
APPROVED

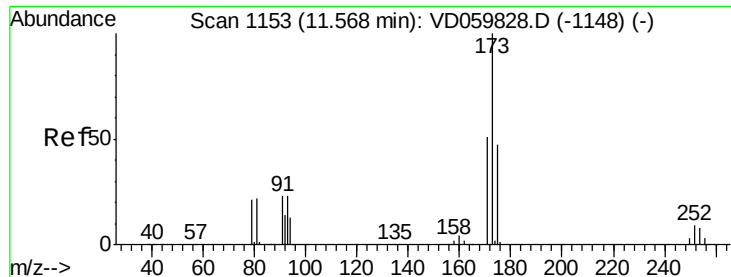
apatel
8/21/2018 10:23:43 AM



#70
Styrene
Concen: 50.33 ug/l
RT: 11.41 min Scan# 1136
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	1235873		
78	39.7	34.6	52.0	
103	46.6	37.8	56.6	





#71

Bromoform

Concen: 50.68 ug/l

RT: 11.57 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

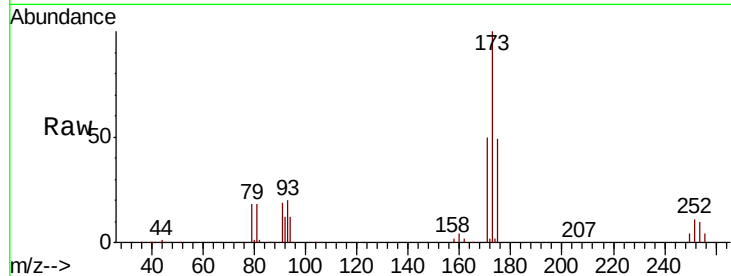
ClientSampleId :

ICVVD082018

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.7	71.1
254	10.4	6.7	10.1

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM

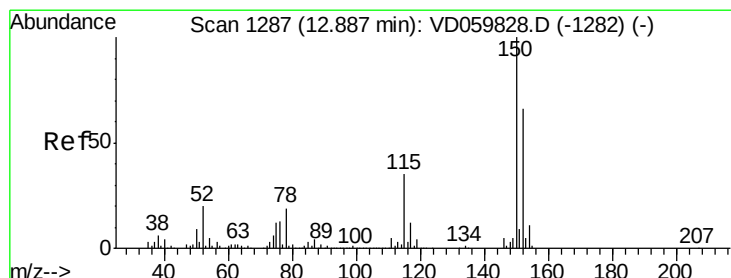
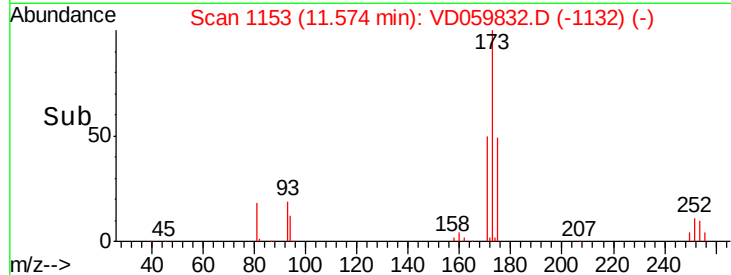
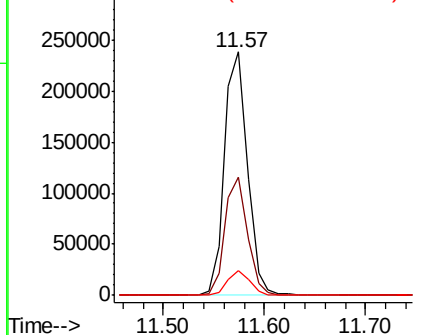


Abundance

Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

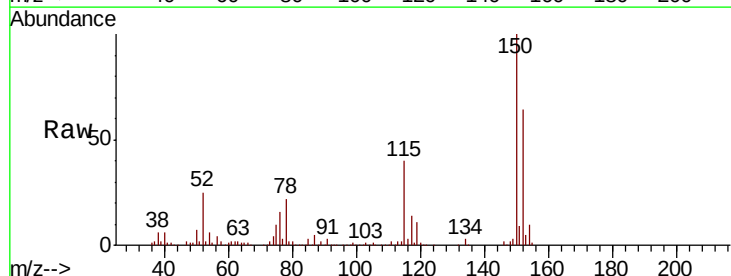
RT: 12.88 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.2	26.9	80.6
150	156.1	0.0	306.8

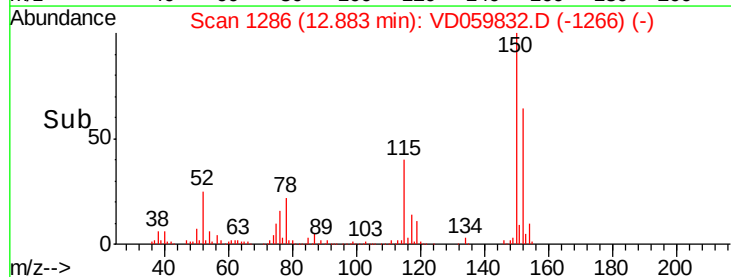
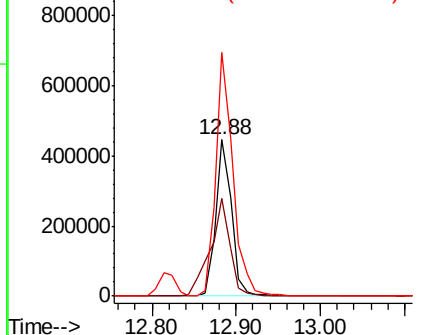


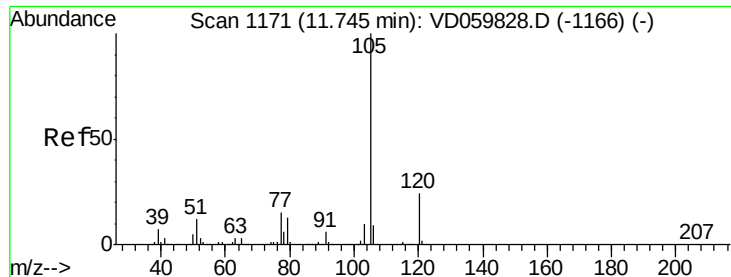
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 50.07 ug/l

RT: 11.75 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion:105 Resp: 1969219

Ion Ratio Lower Upper

105 100

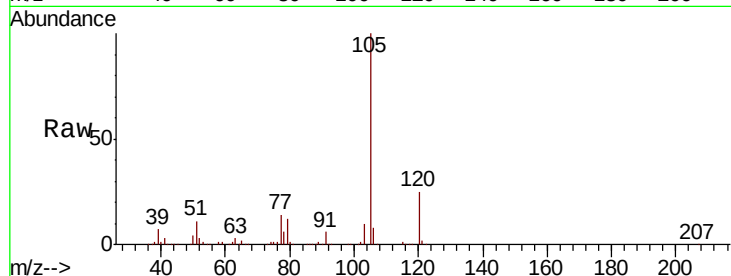
120 24.6 11.9 35.5

Manual Integrations

APPROVED

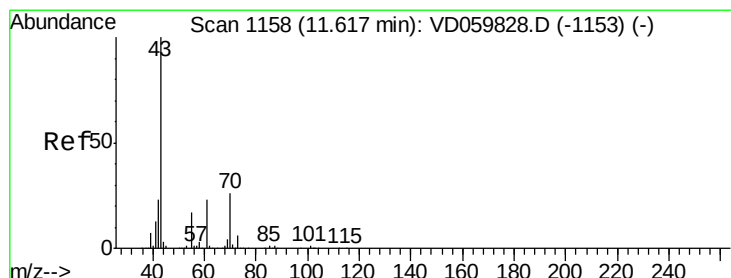
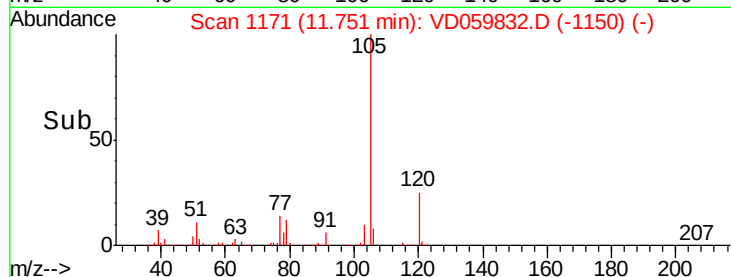
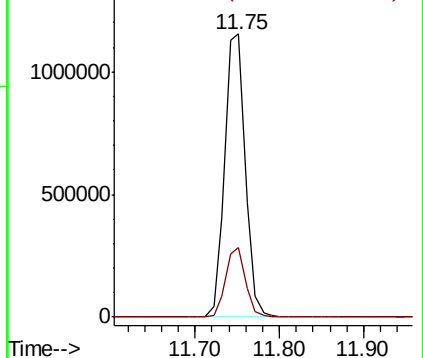
apatel

8/21/2018 10:23:43 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 49.49 ug/l

RT: 11.61 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion: 43 Resp: 871607

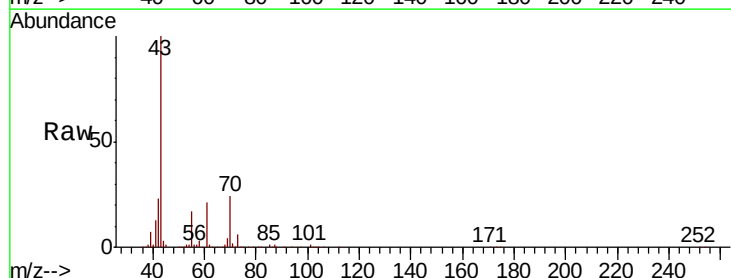
Ion Ratio Lower Upper

43 100

70 24.3 20.5 30.7

55 16.9 13.7 20.5

61 21.3 18.0 27.0

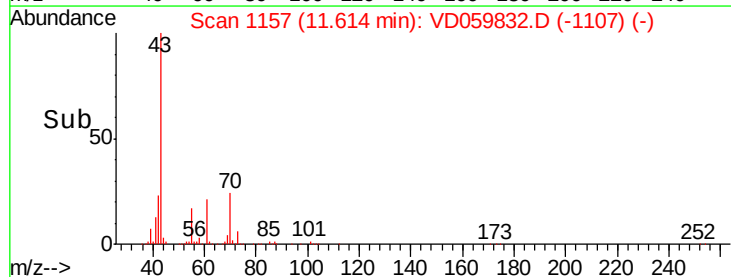
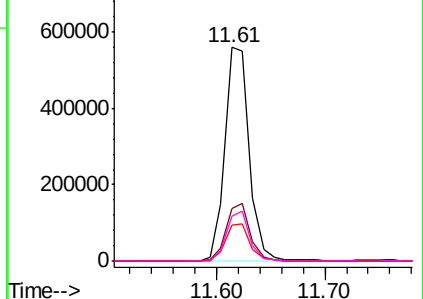


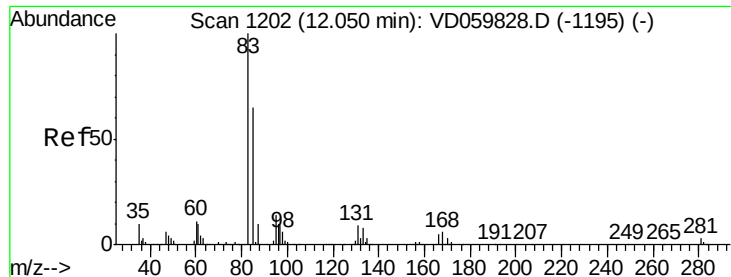
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 49.22 ug/l

RT: 12.05 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

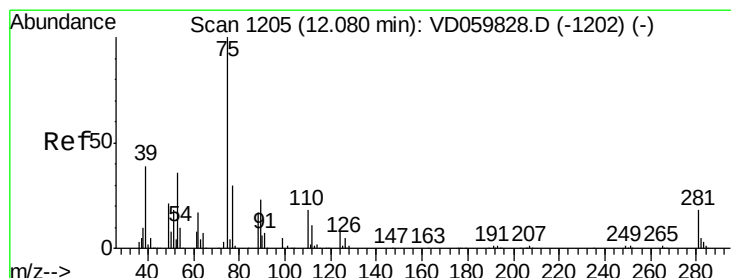
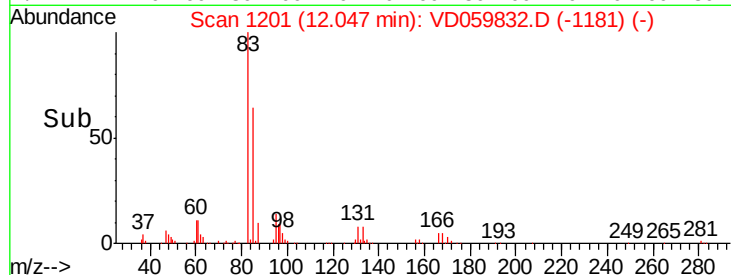
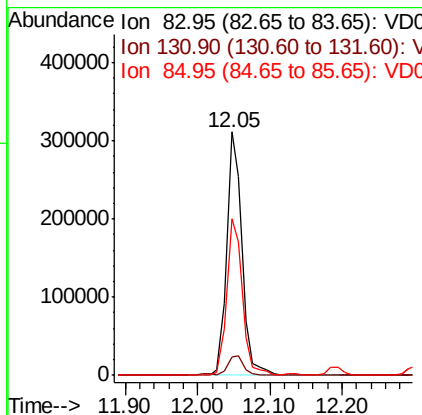
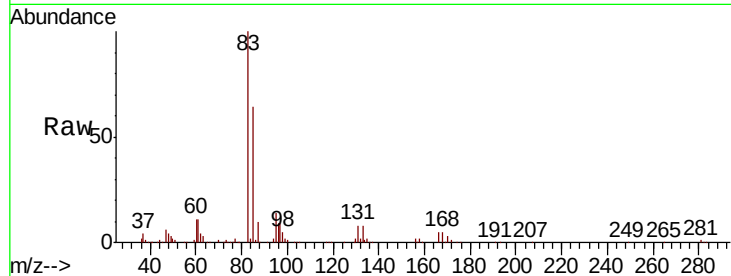
ClientSampleId :

ICVVD082018

Tot Ion:	83	Resp:	456321
Ion Ratio	Lower	Upper	
83	100		
131	7.7	4.3	13.1
85	64.3	32.5	97.5

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#76

1,2,3-Trichloropropane

Concen: 47.89 ug/l

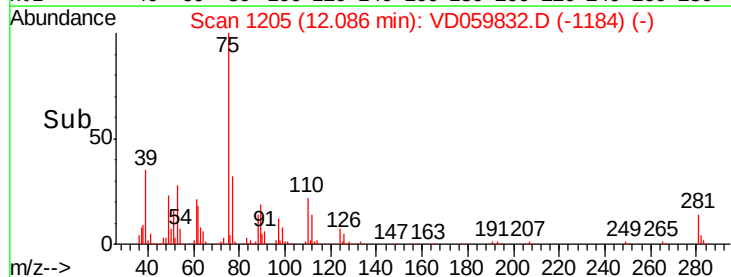
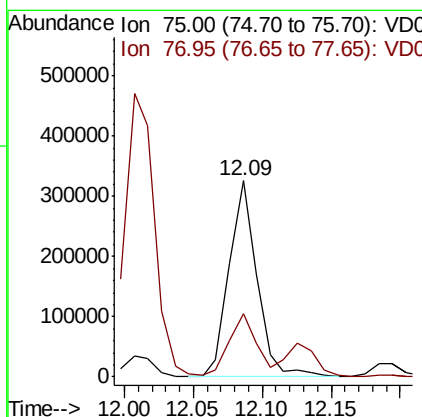
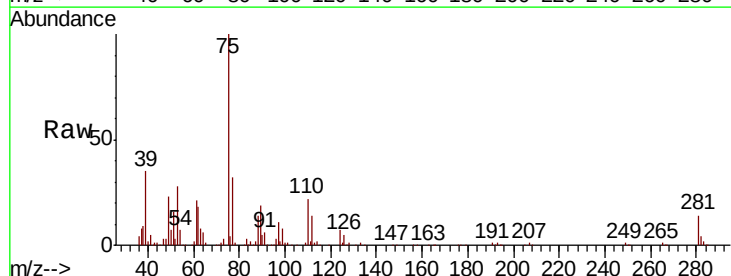
RT: 12.09 min Scan# 1205

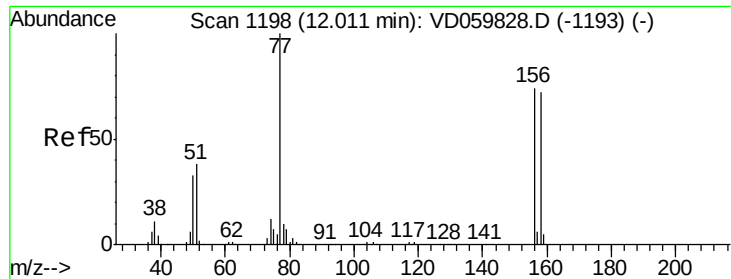
Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	75	Resp:	457247
Ion Ratio	Lower	Upper	
75	100		
77	32.0	16.0	47.9





#77

Bromobenzene

Concen: 50.43 ug/l

RT: 12.02 min Scan# 1198

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

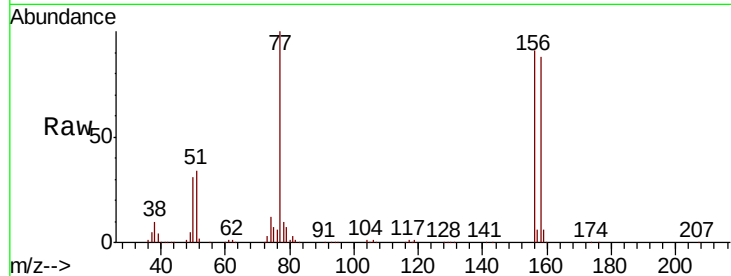
ClientSampleId :

ICVVD082018

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		551307		
77	110.4	68.0	204.0		
158	97.7	48.9	146.8		

Manual Integrations
APPROVED

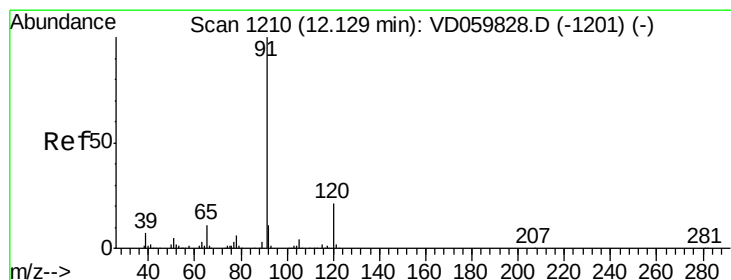
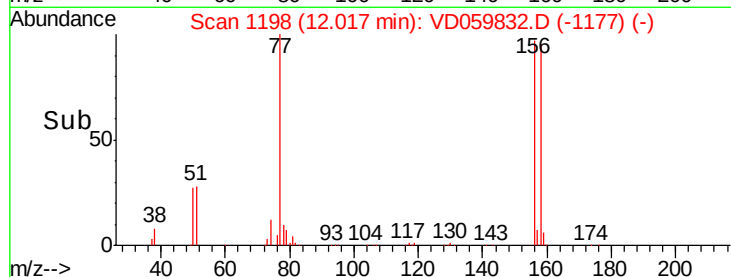
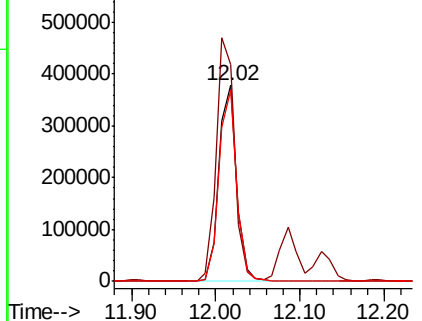
apatel
8/21/2018 10:23:43 AM



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 47.68 ug/l

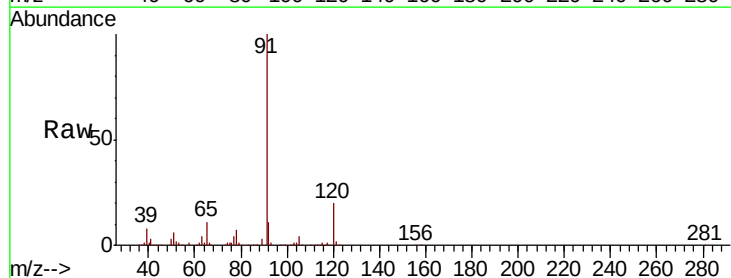
RT: 12.13 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VD059832.D

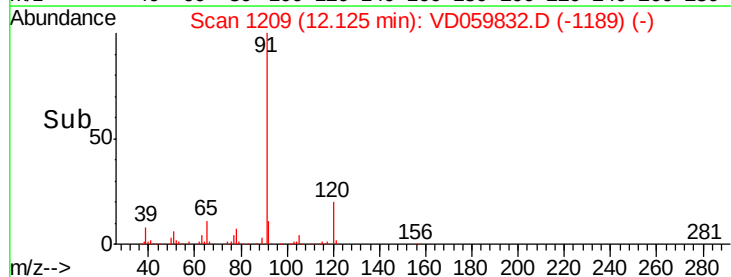
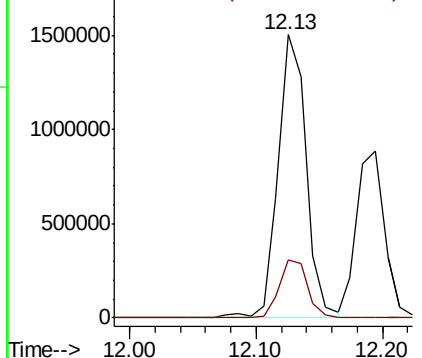
Acq: 20 Aug 2018 15:35

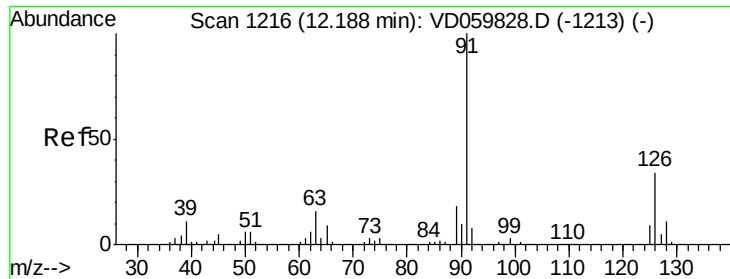
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		2329076		
120	20.4	10.5	31.5		



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





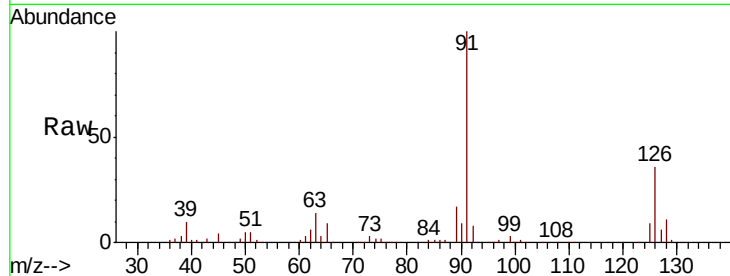
#79
 2-Chlorotoluene
 Concen: 48.38 ug/l
 RT: 12.19 min Scan# 1216
 Delta R.T. 0.01 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

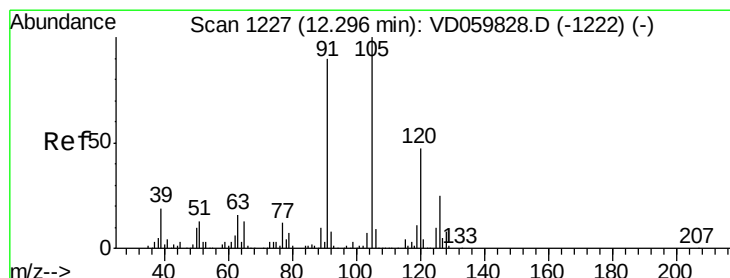
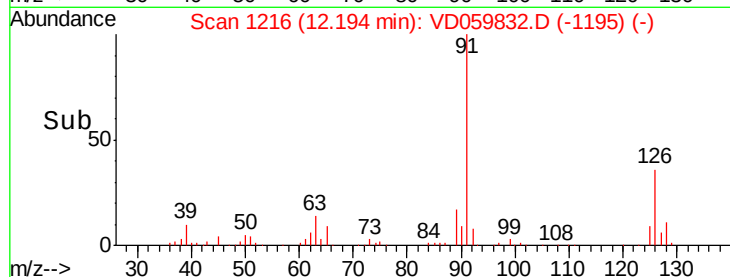
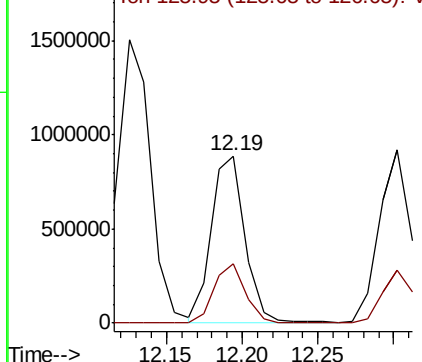
Tot Ion: 91 Resp: 1360495
 Ion Ratio Lower Upper
 91 100
 126 35.6 16.6 49.8

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM

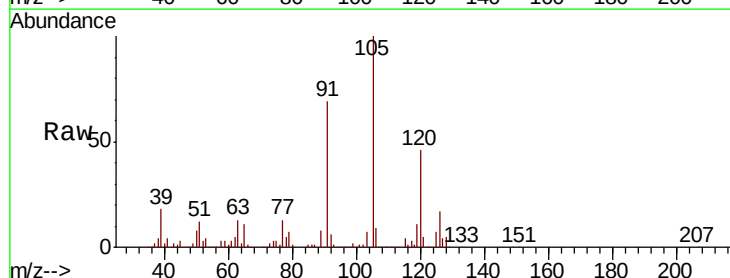


Abundance Ion 91.00 (90.70 to 91.70): VD059832.D (-1195) (-)
 Ion 125.95 (125.65 to 126.65): VD059832.D (-1195) (-)

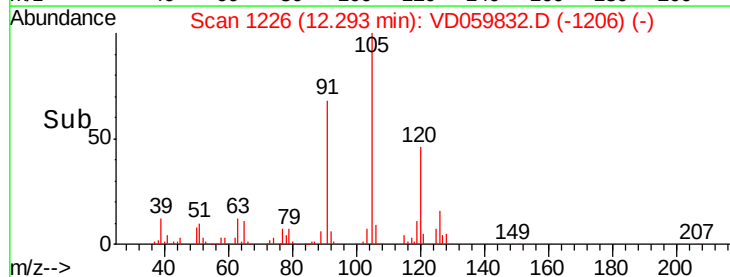
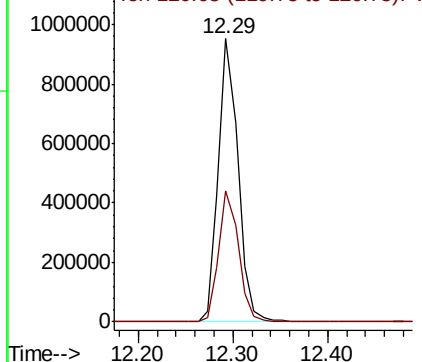


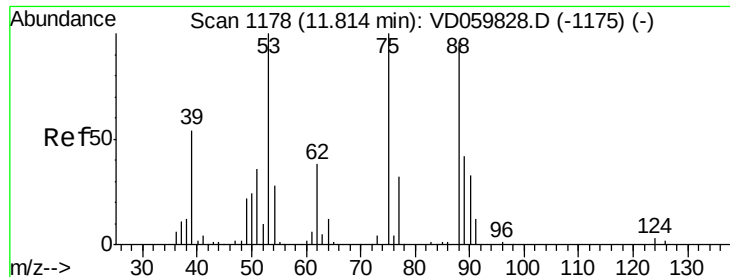
#80
 1,3,5-Trimethylbenzene
 Concen: 47.45 ug/l
 RT: 12.29 min Scan# 1226
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion:105 Resp: 1376405
 Ion Ratio Lower Upper
 105 100
 120 46.1 23.5 70.6



Abundance Ion 105.05 (104.75 to 105.75): VD059832.D (-1206) (-)
 Ion 120.05 (119.75 to 120.75): VD059832.D (-1206) (-)





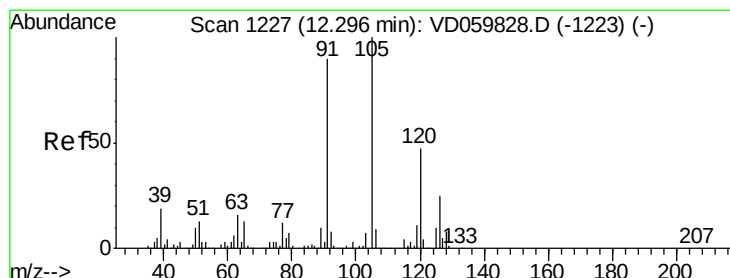
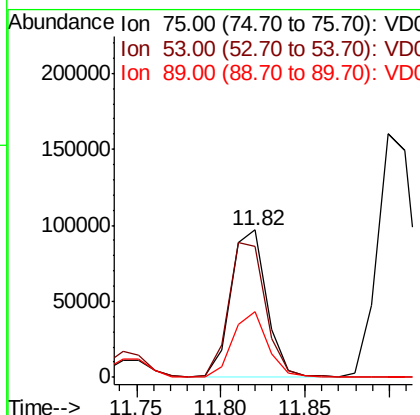
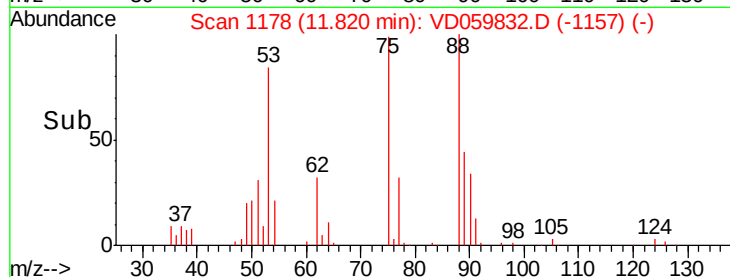
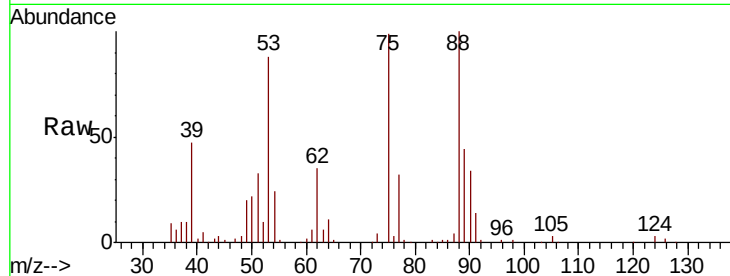
#81
trans-1,4-Dichloro-2-butene
Concen: 48.13 ug/l
RT: 11.82 min Scan# 1178
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Instrument :
MSVOA_D
ClientSampleId :
ICVVD082018

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.9	80.7	121.1
89	44.8	33.9	50.9

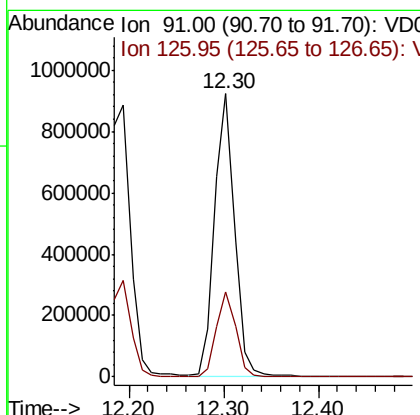
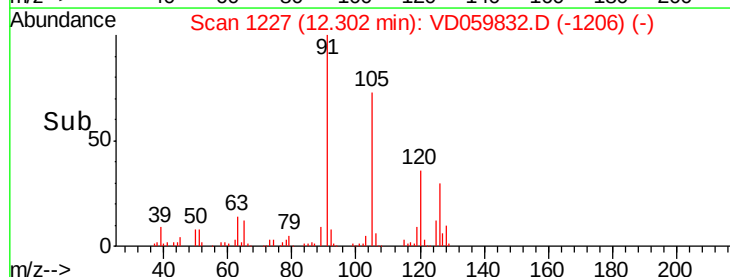
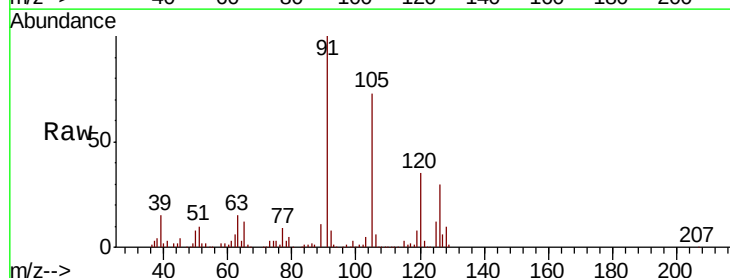
Manual Integrations
APPROVED

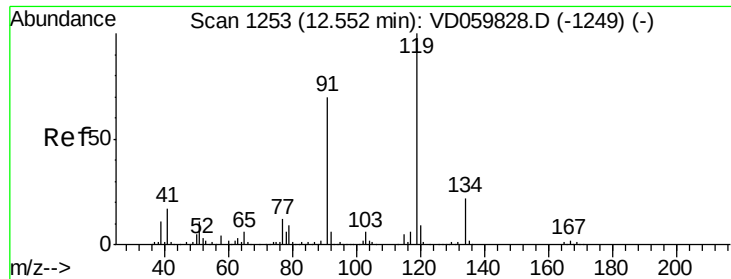
apatel
8/21/2018 10:23:43 AM



#82
4-Chlorotoluene
Concen: 47.77 ug/l
RT: 12.30 min Scan# 1227
Delta R.T. 0.01 min
Lab File: VD059832.D
Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	13.7	41.0





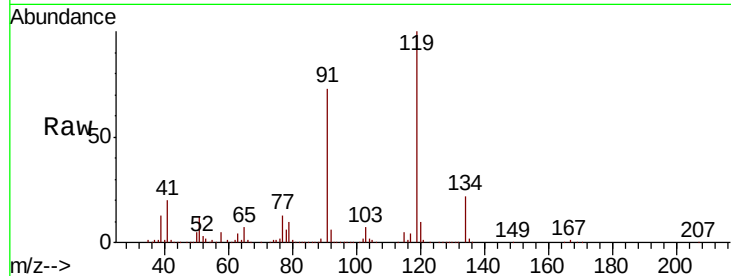
#83
 tert-Butylbenzene
 Concen: 44.92 ug/l m
 RT: 12.55 min Scan# 1252
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

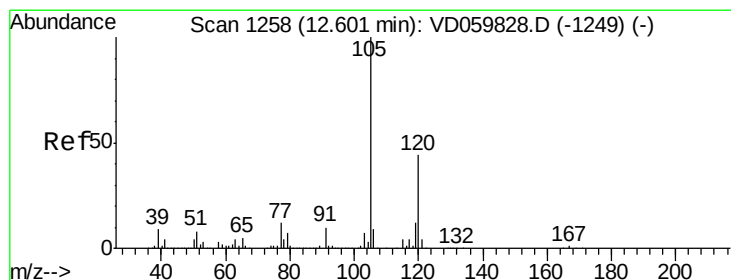
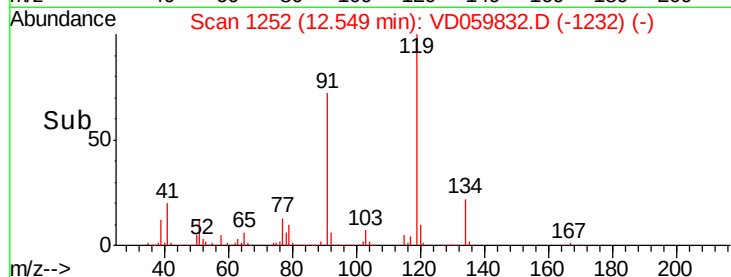
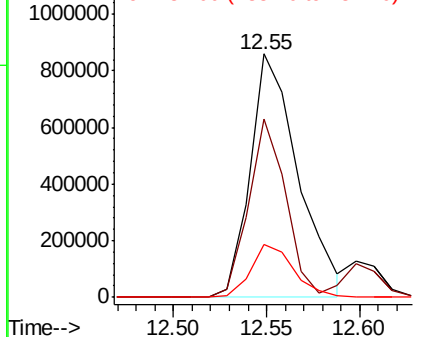
Tot Ion:119 Resp: 1541987
 Ion Ratio Lower Upper
 119 100
 91 73.1 35.1 105.3
 134 21.8 11.0 33.0

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM

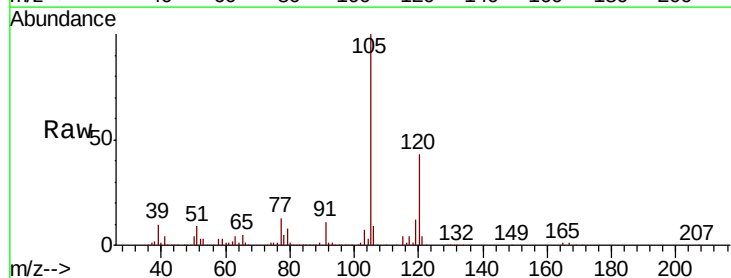


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

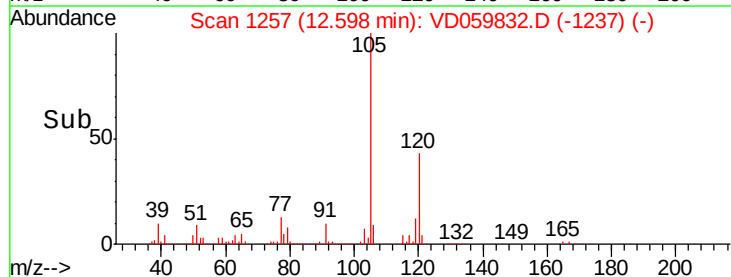
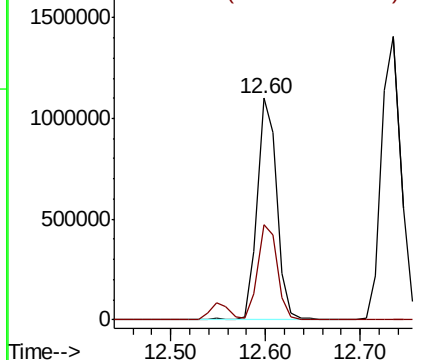


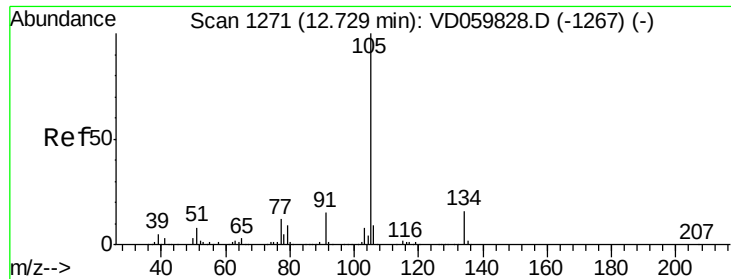
#84
 1,2,4-Trimethylbenzene
 Concen: 49.00 ug/l
 RT: 12.60 min Scan# 1257
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion:105 Resp: 1585798
 Ion Ratio Lower Upper
 105 100
 120 42.7 22.0 66.0



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 49.34 ug/l

RT: 12.74 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion:105 Resp: 2030169

Ion Ratio Lower Upper

105 100

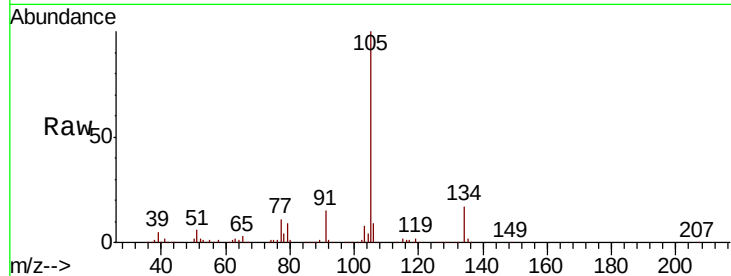
134 17.3 7.8 23.5

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

12.74

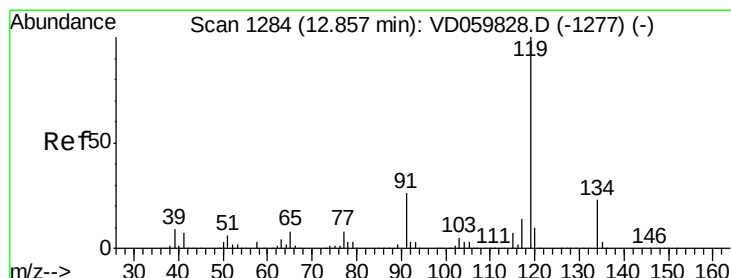
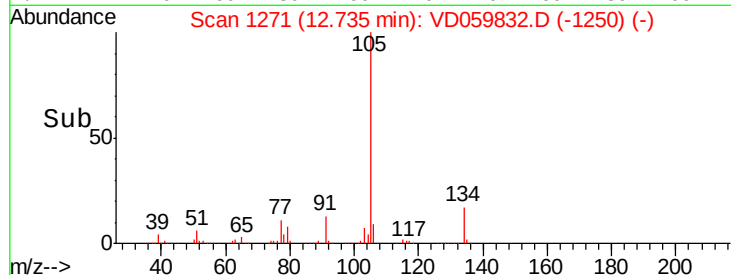
1500000

1000000

500000

0

Time-->



#86

p-Isopropyltoluene

Concen: 50.06 ug/l

RT: 12.86 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

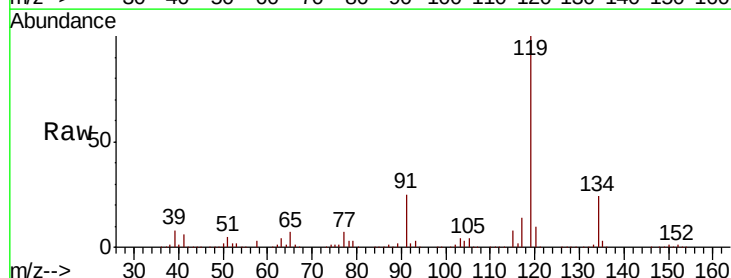
Tgt Ion:119 Resp: 1615657

Ion Ratio Lower Upper

119 100

134 24.1 11.5 34.5

91 24.7 13.2 39.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

12.86

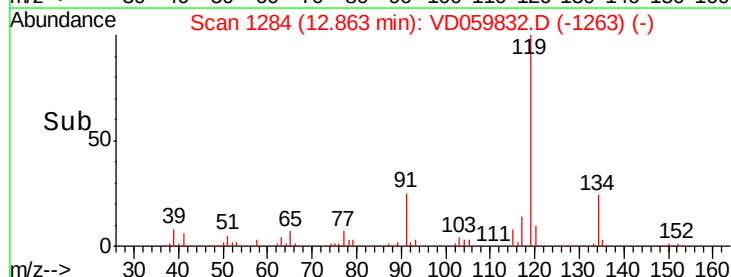
1500000

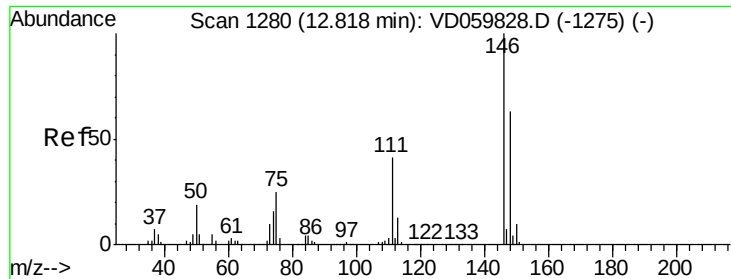
1000000

500000

0

Time-->





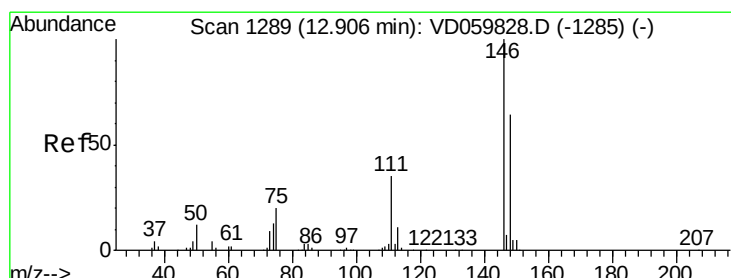
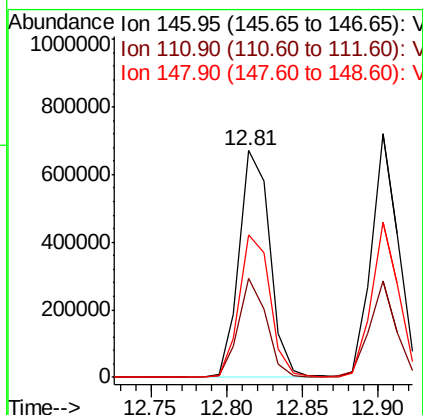
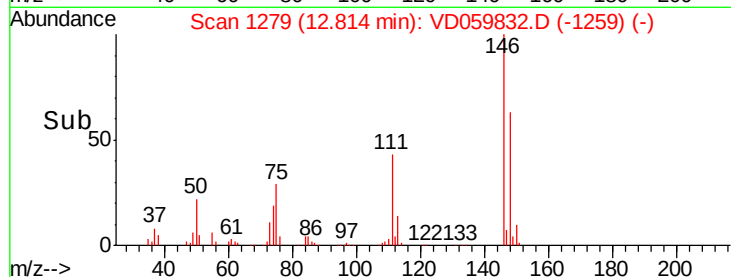
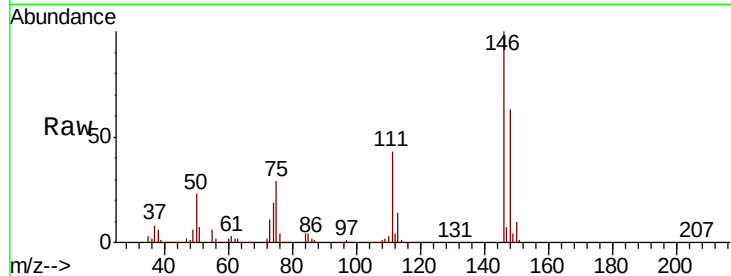
#87
 1,3-Dichlorobenzene
 Concen: 51.70 ug/l
 RT: 12.81 min Scan# 1279
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.3	60.9
148	62.9	31.6	94.7

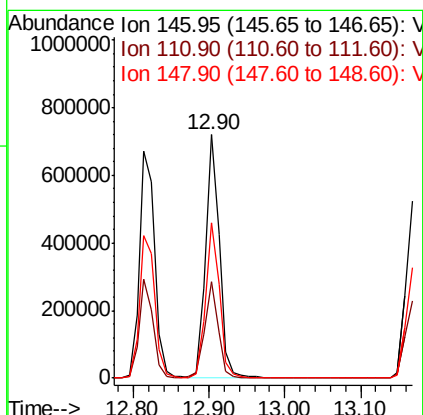
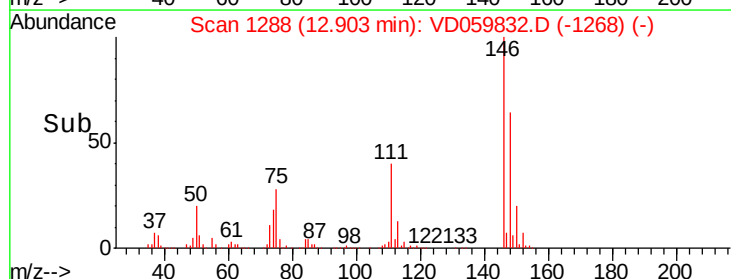
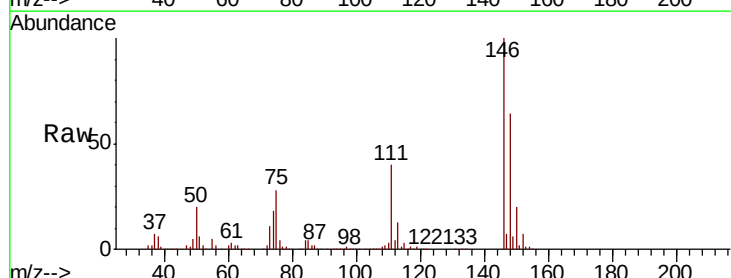
Manual Integrations
 APPROVED

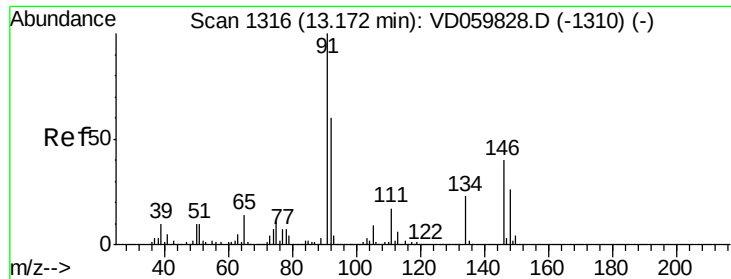
apatel
 8/21/2018 10:23:43 AM



#88
 1,4-Dichlorobenzene
 Concen: 50.18 ug/l
 RT: 12.90 min Scan# 1288
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	17.8	53.3
148	63.6	31.9	95.9





#89

n-Butylbenzene

Concen: 49.65 ug/l

RT: 13.18 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion: 91 Resp: 1491933

Ion Ratio Lower Upper

91 100

92 59.7 29.8 89.5

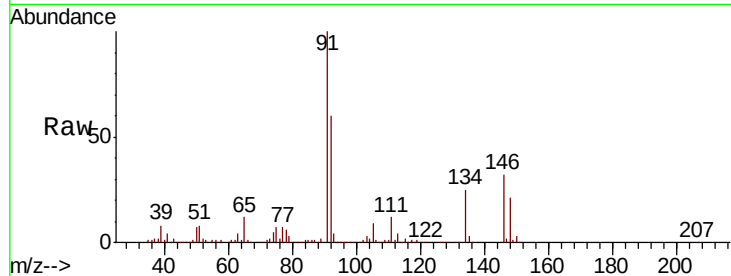
134 25.0 11.5 34.4

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V

13.18

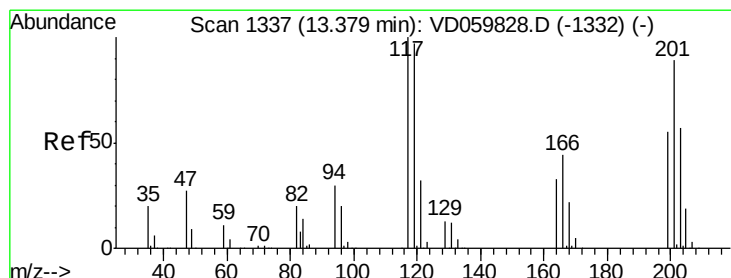
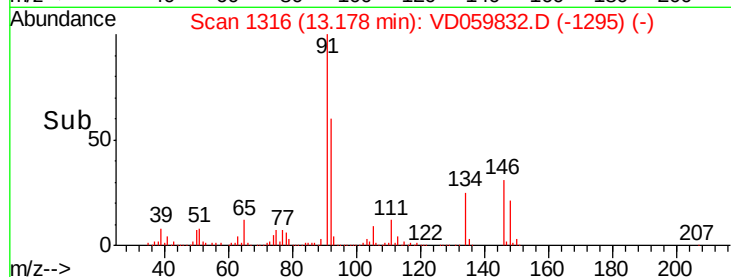
1000000

500000

0

Time-->

13.10 13.20 13.30



#90

Hexachloroethane

Concen: 50.84 ug/l

RT: 13.38 min Scan# 1336

Delta R.T. -0.00 min

Lab File: VD059832.D

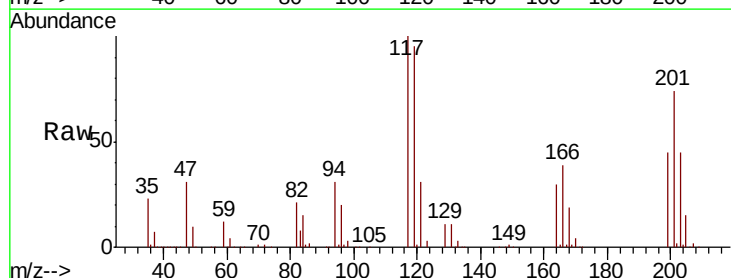
Acq: 20 Aug 2018 15:35

Tgt Ion: 117 Resp: 468173

Ion Ratio Lower Upper

117 100

201 74.0 44.6 134.0



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

400000

300000

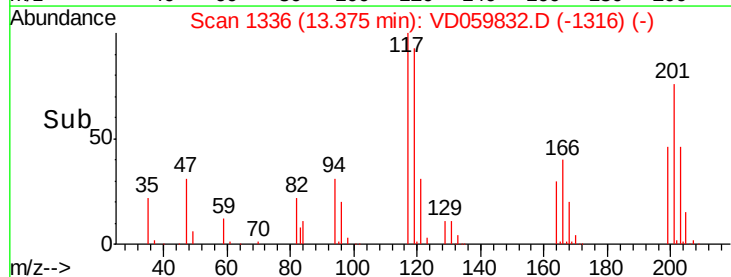
200000

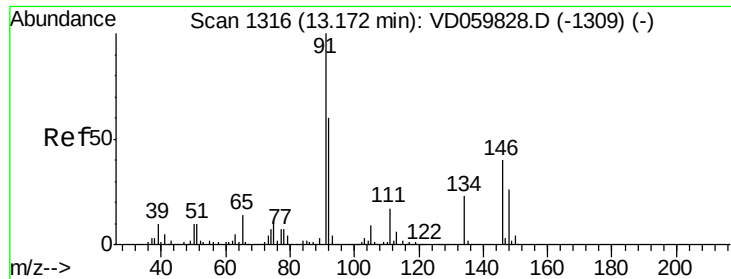
100000

0

Time-->

13.30 13.40 13.50





#91

1,2-Dichlorobenzene

Concen: 51.60 ug/l

RT: 13.17 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

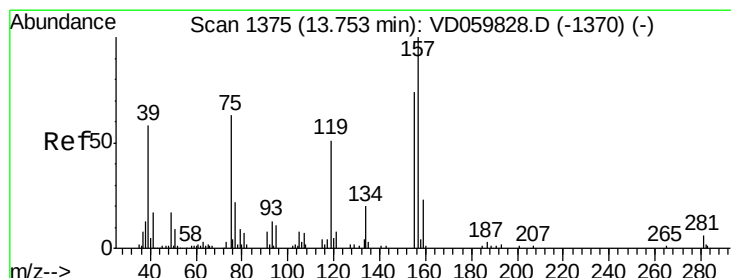
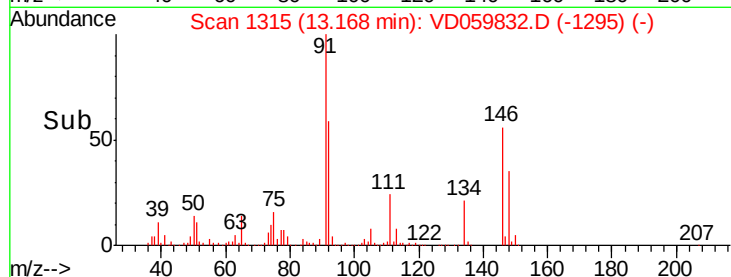
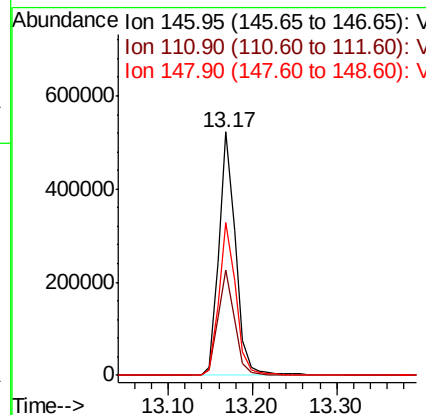
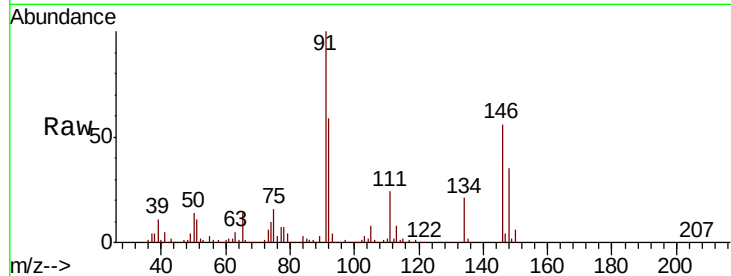
ClientSampleId :

ICVVD082018

Tot Ion:	146	Resp:	713366
Ion Ratio	Lower	Upper	
146	100		
111	43.5	20.9	62.8
148	62.5	31.6	94.8

Manual Integrations
APPROVED

apatel
8/21/2018 10:23:43 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 47.75 ug/l

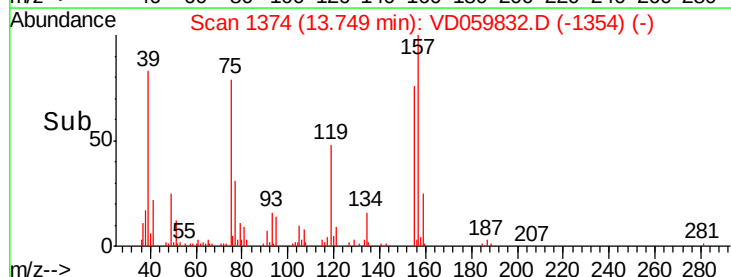
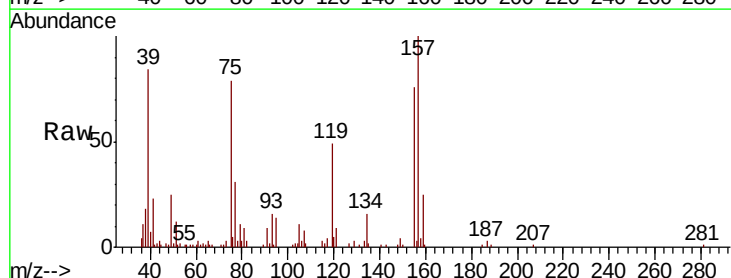
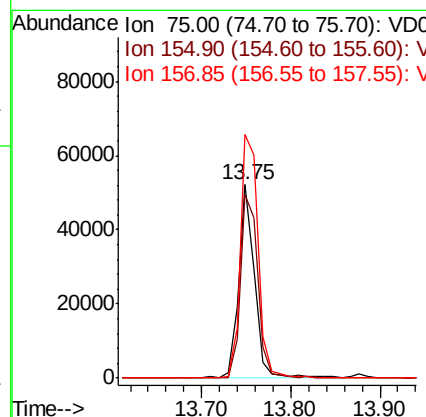
RT: 13.75 min Scan# 1374

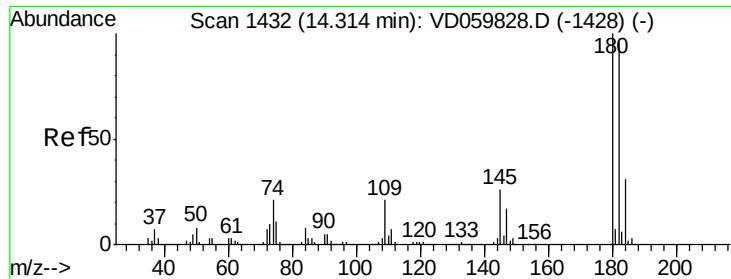
Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Tgt Ion:	75	Resp:	65895
Ion Ratio	Lower	Upper	
75	100		
155	95.1	59.1	177.3
157	125.9	79.7	238.9





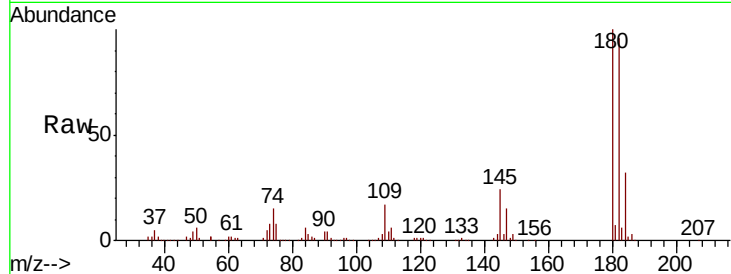
#93
 1,2,4-Trichlorobenzene
 Concen: 52.48 ug/l
 RT: 14.32 min Scan# 1432
 Delta R.T. 0.01 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Instrument :
 MSVOA_D
 ClientSampleId :
 ICVVD082018

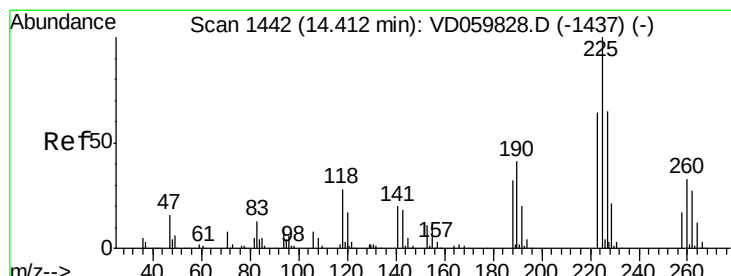
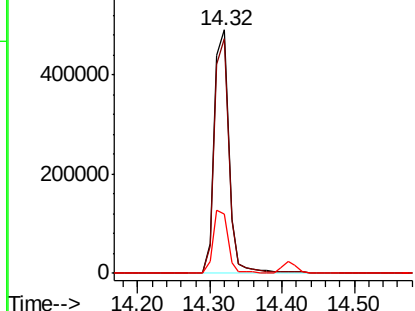
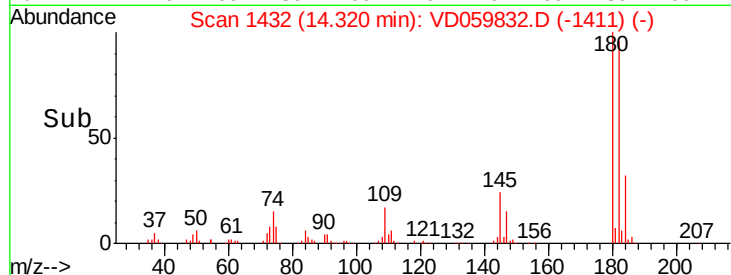
Tot Ion	Ratio	Resp	Lower	Upper
180	100	693420		
182	96.5	48.0	144.0	
145	24.1	13.1	39.1	

Manual Integrations
 APPROVED

apatel
 8/21/2018 10:23:43 AM

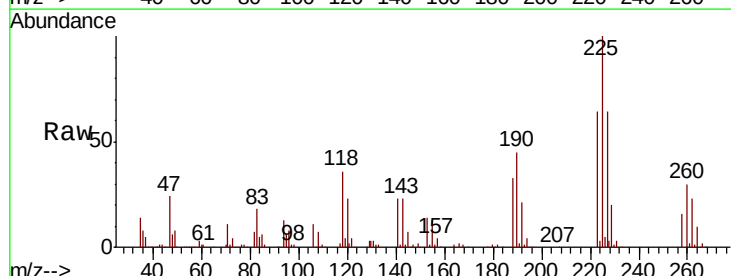


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

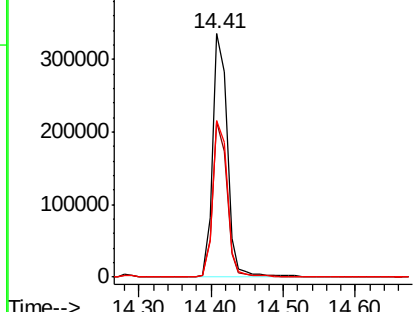
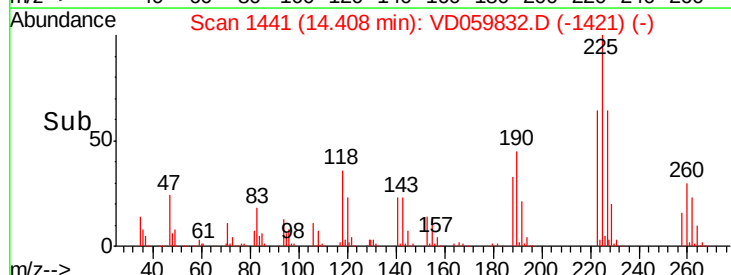


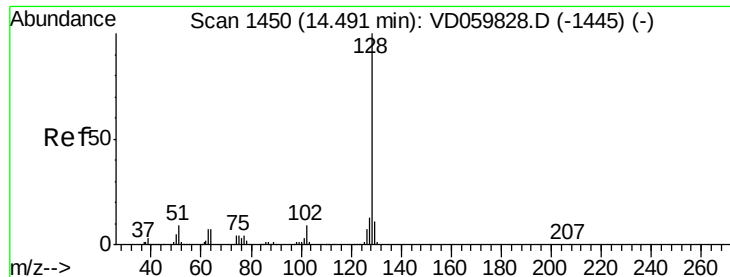
#94
 Hexachlorobutadiene
 Concen: 53.24 ug/l
 RT: 14.41 min Scan# 1441
 Delta R.T. -0.00 min
 Lab File: VD059832.D
 Acq: 20 Aug 2018 15:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	473281		
223	63.8	31.8	95.4	
227	64.5	32.8	98.3	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





#95

Naphthalene

Concen: 50.75 ug/l

RT: 14.50 min Scan# 1450

Delta R.T. 0.01 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

Instrument :

MSVOA_D

ClientSampleId :

ICVVD082018

Tot Ion:128 Resp: 1095412

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

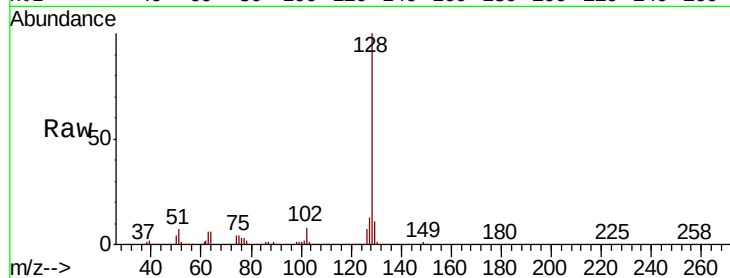
129 10.7 8.7 13.1

Manual Integrations

APPROVED

apatel

8/21/2018 10:23:43 AM

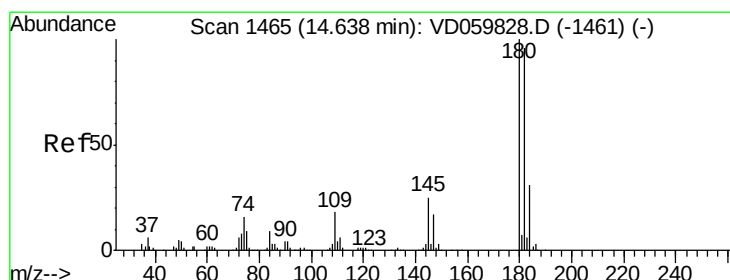
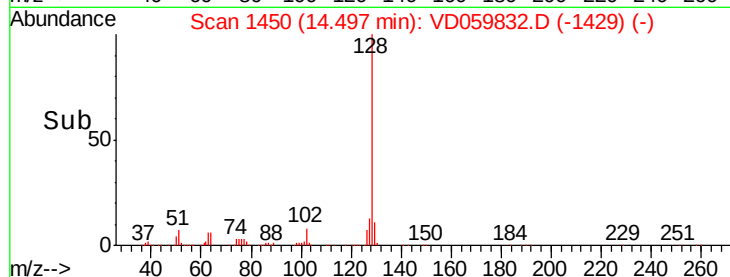
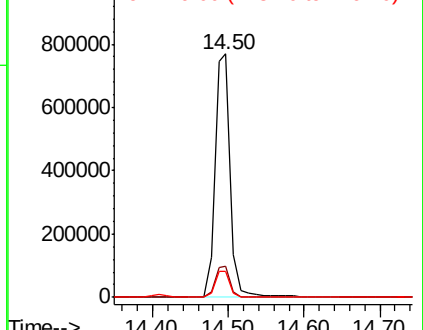


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 50.15 ug/l

RT: 14.63 min Scan# 1464

Delta R.T. -0.00 min

Lab File: VD059832.D

Acq: 20 Aug 2018 15:35

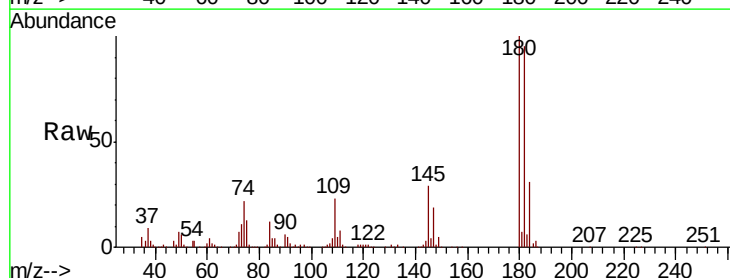
Tgt Ion:180 Resp: 580738

Ion Ratio Lower Upper

180 100

182 94.9 47.8 143.4

145 28.9 12.7 38.0



Abundance

Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

