

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120418\
 Data File : VW007205.D
 Acq On : 05 Dec 2018 01:01
 Operator : SY/AP
 Sample : VW1204SBS02
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Manual Integrations
 APPROVED

apatel
 12/5/2018 12:44:24 PM

Quant Time: Dec 05 07:39:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W120418S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 04 14:18:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	104854	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	172073	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	154932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	77798	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.30	65	51593	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	7.88	113	48889	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	10.33	98	208481	48.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.08%	
62) 4-Bromofluorobenzene	12.62	95	81241	49.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.18%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.00	85	22247	19.393	ug/l	96
3) Chloromethane	2.21	50	28434	19.572	ug/l	99
4) Vinyl Chloride	2.35	62	17225	18.937	ug/l	99
5) Bromomethane	2.75	94	10930	23.980	ug/l	99
6) Chloroethane	2.90	64	10422	20.421	ug/l	93
7) Trichlorofluoromethane	3.25	101	32671	18.423	ug/l	97
8) Diethyl Ether	3.68	74	10409	21.057	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.06	101	19652	18.344	ug/l	97
10) Methyl Iodide	4.27	142	16457	18.033	ug/l	99
11) Tert butyl alcohol	5.15	59	13230	133.129	ug/l	96
12) 1,1-Dichloroethene	4.04	96	18688	18.615	ug/l	98
13) Acrolein	3.90	56	6914	101.076	ug/l	99
14) Allyl chloride	4.67	41	31977	19.871	ug/l	99
15) Acrylonitrile	5.37	53	22152	107.195	ug/l	98
16) Acetone	4.12	43	19152	82.870	ug/l	100
17) Carbon Disulfide	4.37	76	61178	18.487	ug/l	98
18) Methyl Acetate	4.67	43	11644	22.073	ug/l	99
19) Methyl tert-butyl Ether	5.43	73	50281	21.272	ug/l	95
20) Methylene Chloride	4.92	84	28193	21.222	ug/l	98
21) trans-1,2-Dichloroethene	5.43	96	22164	19.772	ug/l	95
22) Diisopropyl ether	6.32	45	60755	21.031	ug/l	99
23) Vinyl Acetate	6.26	43	160689	101.942	ug/l	100
24) 1,1-Dichloroethane	6.22	63	37971	20.508	ug/l	98
25) 2-Butanone	7.17	43	25593	95.532	ug/l	92
26) 2,2-Dichloropropane	7.16	77	31463	17.683	ug/l	100
27) cis-1,2-Dichloroethene	7.16	96	24594	20.466	ug/l	99
28) Bromochloromethane	7.51	49	14894	22.308	ug/l	100
29) Tetrahydrofuran	7.53	42	17359	104.856	ug/l	98
30) Chloroform	7.68	83	40181	20.881	ug/l	98
31) Cyclohexane	7.95	56	35012	18.073	ug/l	# 93
32) 1,1,1-Trichloroethane	7.87	97	35438	19.569	ug/l	99
36) 1,1-Dichloropropene	8.08	75	29795	17.795	ug/l	98
37) Ethyl Acetate	7.26	43	11057	18.257	ug/l	97
38) Carbon Tetrachloride	8.07	117	30116	17.623	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120418\
 Data File : VW007205.D
 Acq On : 05 Dec 2018 01:01
 Operator : SY/AP
 Sample : VW1204SBS02
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VW1204SBS02

Manual Integrations
 APPROVED

apatel
 12/5/2018 12:44:24 PM

Quant Time: Dec 05 07:39:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W120418S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 04 14:18:19 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	38509	17.181	ug/l	96
40) Benzene	8.32	78	87590	19.078	ug/l	100
41) Methacrylonitrile	7.49	41	6786	18.706	ug/l #	87
42) 1,2-Dichloroethane	8.40	62	25959	20.231	ug/l	100
43) Isopropyl Acetate	8.43	43	23024	19.574	ug/l	99
44) Trichloroethene	9.09	130	24667	19.114	ug/l	96
45) 1,2-Dichloropropane	9.37	63	21155	19.801	ug/l	97
46) Dibromomethane	9.46	93	10946	19.717	ug/l	97
47) Bromodichloromethane	9.65	83	28625	19.602	ug/l	99
48) Methyl methacrylate	9.44	41	11594	18.991	ug/l	93
49) 1,4-Dioxane	9.45	88	4322	445.649	ug/l	97
51) 4-Methyl-2-Pentanone	10.21	43	56516	97.497	ug/l	98
52) Toluene	10.39	92	63103	19.759	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	27881	18.990	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	34003	19.762	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	16298	20.639	ug/l	90
56) Ethyl methacrylate	10.65	69	20750	20.144	ug/l	98
57) 1,3-Dichloropropane	10.93	76	26457	19.844	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	46815	113.148	ug/l	99
59) 2-Hexanone	10.97	43	36688	87.309	ug/l	100
60) Dibromochloromethane	11.13	129	18405	18.963	ug/l	98
61) 1,2-Dibromoethane	11.23	107	15059	19.882	ug/l	99
64) Tetrachloroethene	10.87	164	22928	20.255	ug/l	98
65) Chlorobenzene	11.66	112	66476	19.212	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	20379	19.070	ug/l	99
67) Ethyl Benzene	11.73	91	120937	19.176	ug/l	96
68) m/p-Xylenes	11.84	106	92445	37.365	ug/l	96
69) o-Xylene	12.17	106	45234	19.569	ug/l	98
70) Styrene	12.18	104	72126	19.061	ug/l	99
71) Bromoform	12.35	173	10482	19.594	ug/l #	99
73) Isopropylbenzene	12.47	105	119547	18.893	ug/l	100
74) N-amyl acetate	12.27	43	21121	18.827	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.72	83	16935	20.608	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	10004m	8.557	ug/l	
77) Bromobenzene	12.75	156	26586	19.465	ug/l	97
78) n-propylbenzene	12.81	91	138406	18.360	ug/l	100
79) 2-Chlorotoluene	12.90	91	84874	19.937	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	106572	19.688	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	5094	18.226	ug/l	93
82) 4-Chlorotoluene	12.99	91	86675	19.139	ug/l	98
83) tert-Butylbenzene	13.21	119	89539	18.928	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	104631	18.936	ug/l	97
85) sec-Butylbenzene	13.39	105	123493	18.286	ug/l	99
86) p-Isopropyltoluene	13.51	119	111330	18.519	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	54214	19.336	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	55774	19.693	ug/l	97
89) n-Butylbenzene	13.83	91	100372	17.867	ug/l	99
90) Hexachloroethane	14.10	117	16853	18.396	ug/l	98
91) 1,2-Dichlorobenzene	13.88	146	47806	19.695	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	2951	18.537	ug/l	95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW120418\
Data File : VW007205.D
Acq On : 05 Dec 2018 01:01
Operator : SY/AP
Sample : VW1204SBS02
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

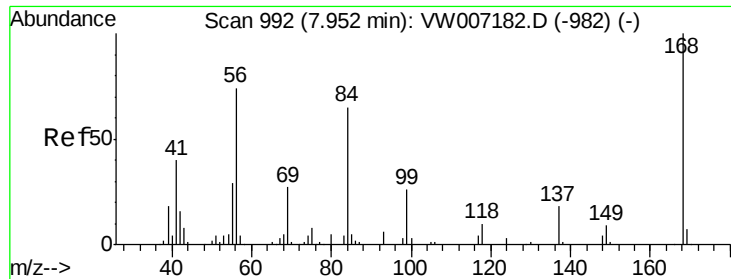
Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM

Quant Time: Dec 05 07:39:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W120418S.M
Quant Title : SW846 8260
QLast Update : Tue Dec 04 14:18:19 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	30740	18.274	ug/l	96
94) Hexachlorobutadiene	15.24	225	16493	18.182	ug/l	98
95) Naphthalene	15.38	128	55154	18.295	ug/l	99
96) 1,2,3-Trichlorobenzene	15.57	180	25752	18.155	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 168 Resp: 104854

Ion Ratio Lower Upper

168 100

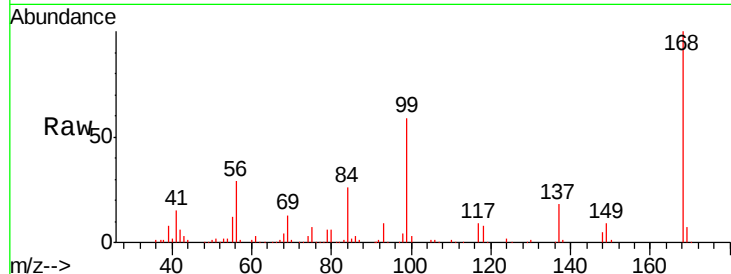
99 58.5 47.8 71.8

Manual Integrations

APPROVED

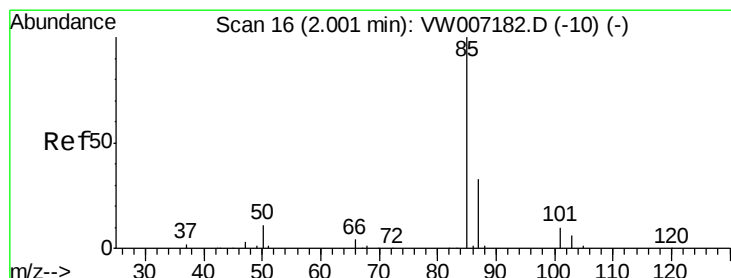
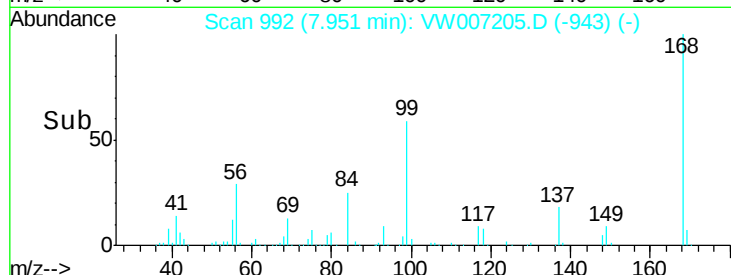
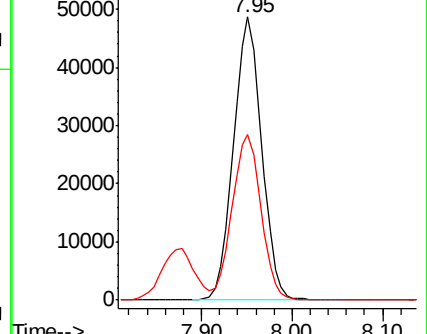
apatel

12/5/2018 12:44:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 19.393 ug/l

RT: 2.00 min Scan# 15

Delta R.T. -0.01 min

Lab File: VW007205.D

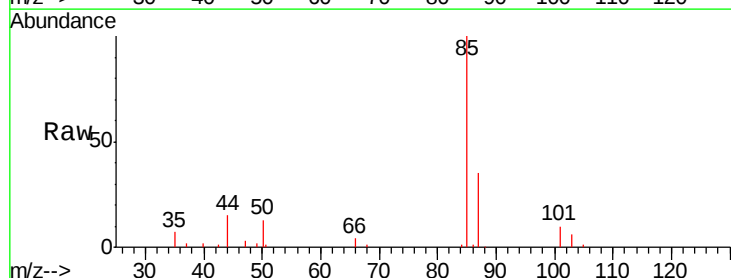
Acq: 05 Dec 2018 01:01

Tgt Ion: 85 Resp: 22247

Ion Ratio Lower Upper

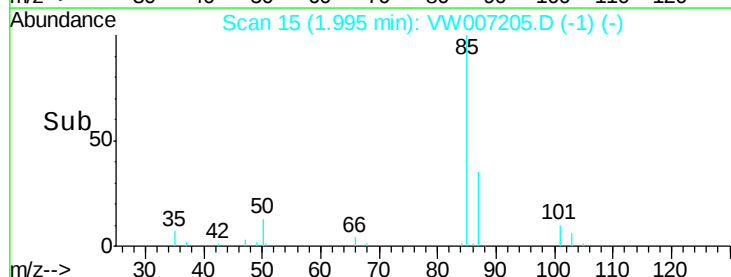
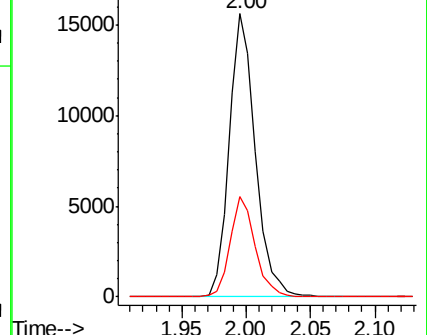
85 100

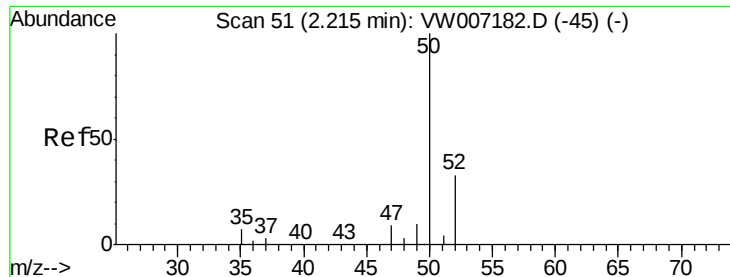
87 35.5 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 19.572 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 50 Resp: 28434

Ion Ratio Lower Upper

50 100

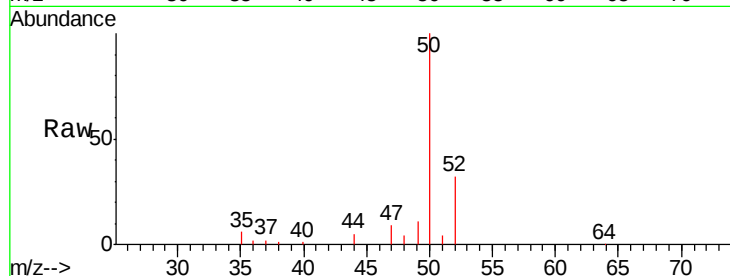
52 32.3 26.2 39.2

Manual Integrations

APPROVED

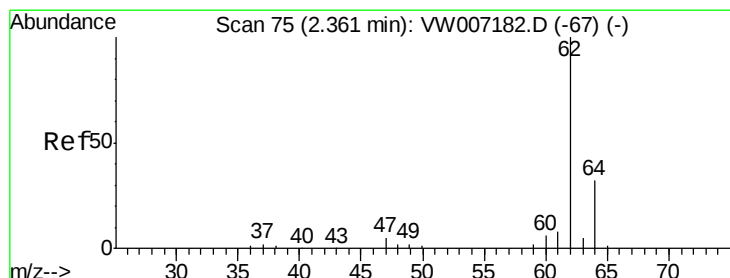
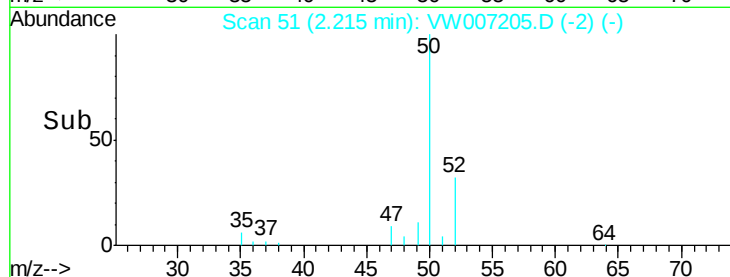
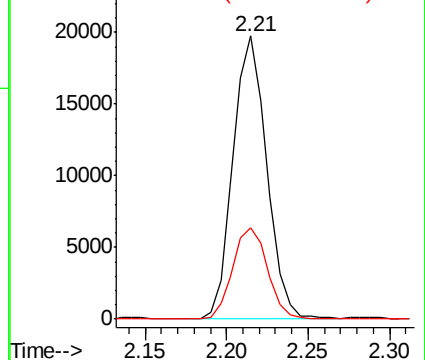
apatel

12/5/2018 12:44:24 PM



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 18.937 ug/l

RT: 2.35 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW007205.D

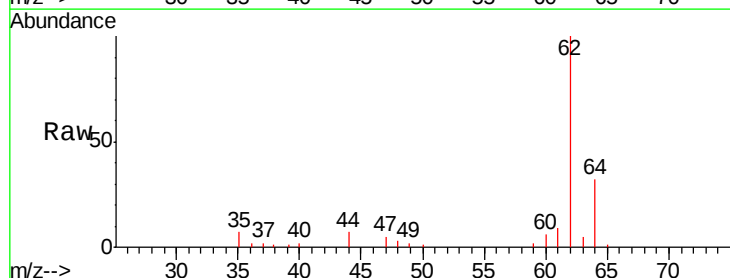
Acq: 05 Dec 2018 01:01

Tgt Ion: 62 Resp: 17225

Ion Ratio Lower Upper

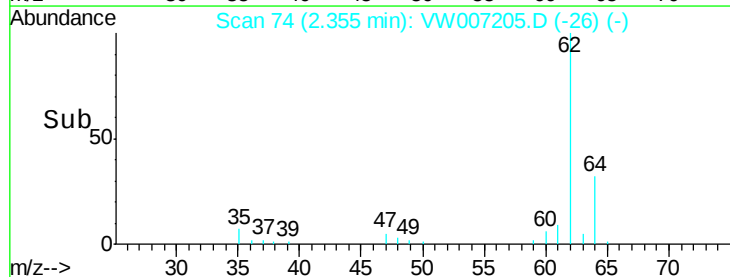
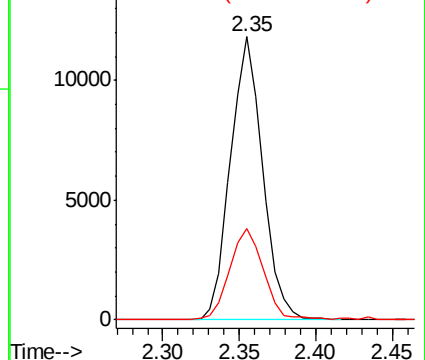
62 100

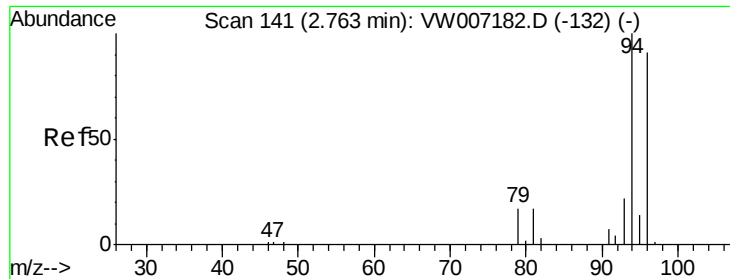
64 32.1 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 23.980 ug/l

RT: 2.75 min Scan# 138

Delta R.T. -0.02 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 94 Resp: 10930

Ion Ratio Lower Upper

94 100

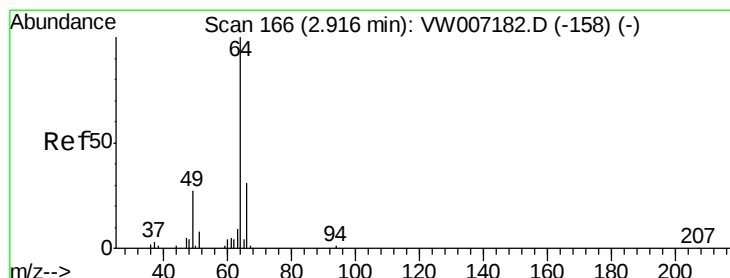
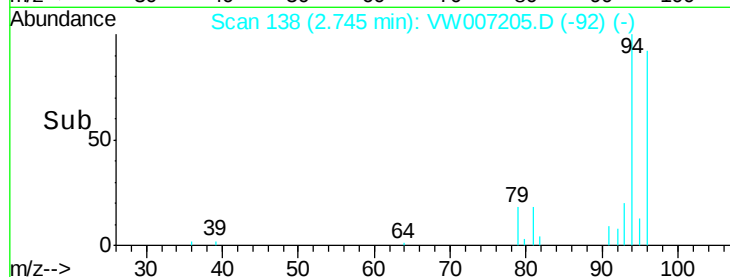
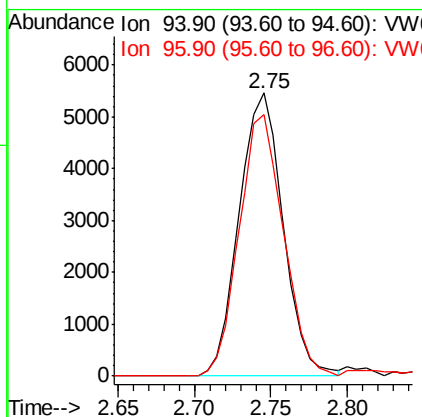
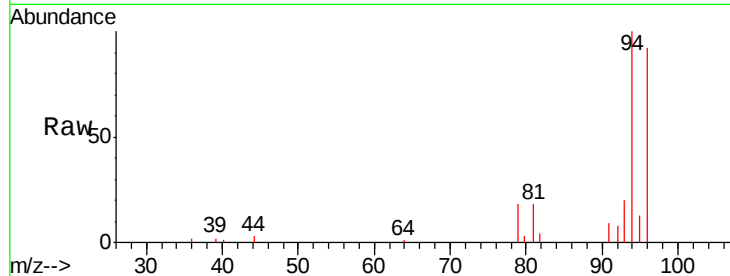
96 92.3 72.8 109.2

Manual Integrations

APPROVED

apatel

12/5/2018 12:44:24 PM



#6

Chloroethane

Concen: 20.421 ug/l

RT: 2.90 min Scan# 164

Delta R.T. -0.01 min

Lab File: VW007205.D

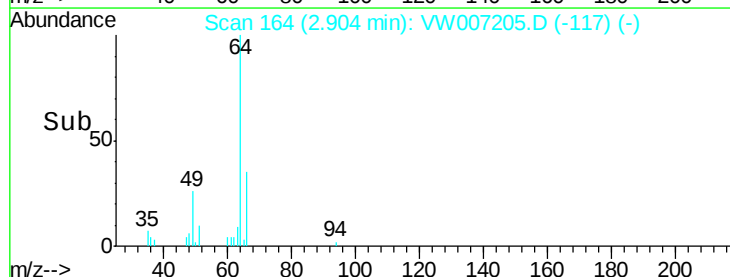
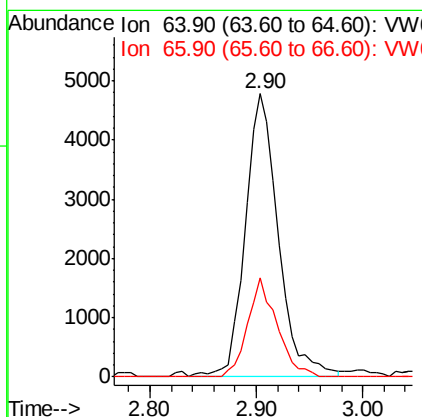
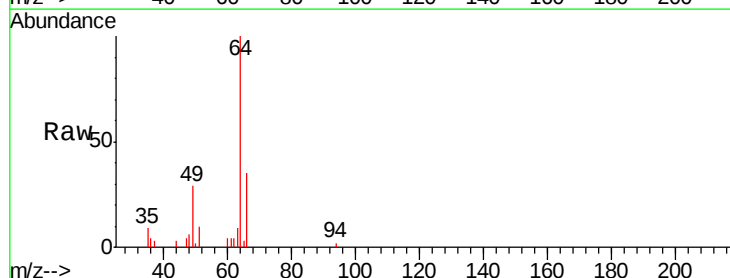
Acq: 05 Dec 2018 01:01

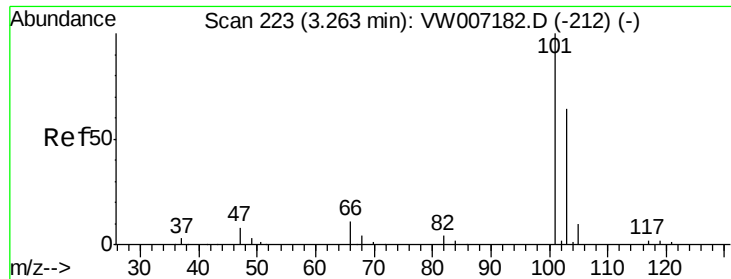
Tgt Ion: 64 Resp: 10422

Ion Ratio Lower Upper

64 100

66 35.1 25.0 37.6





#7

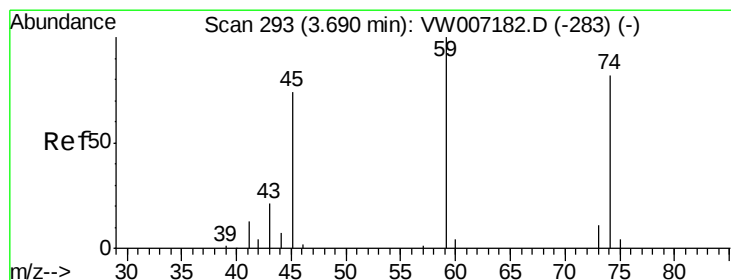
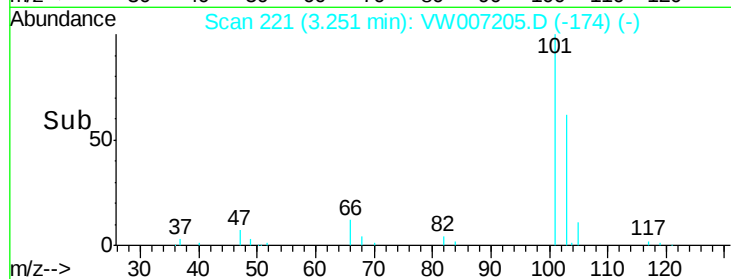
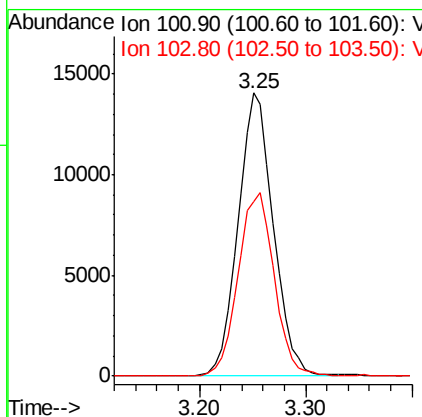
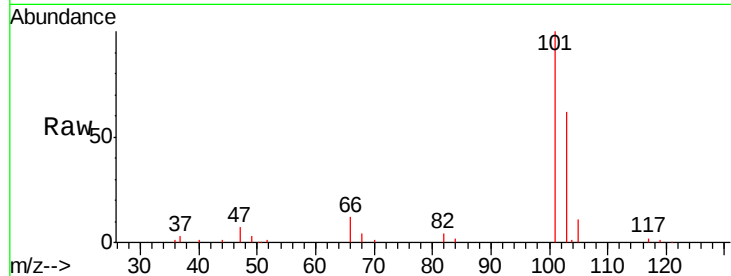
Trichlorofluoromethane
 Concen: 18.423 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.6	50.9	76.3

Manual Integrations
 APPROVED

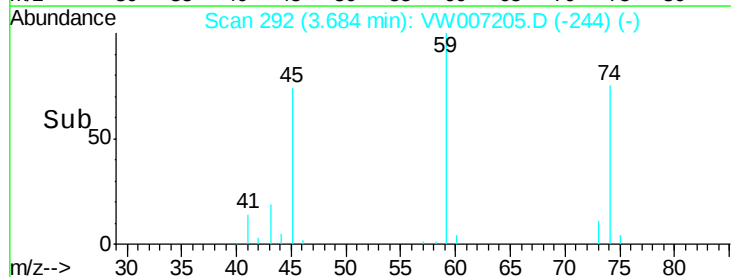
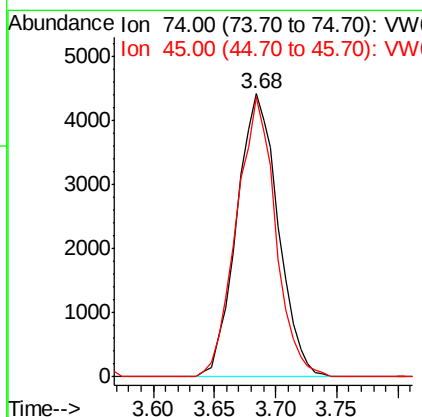
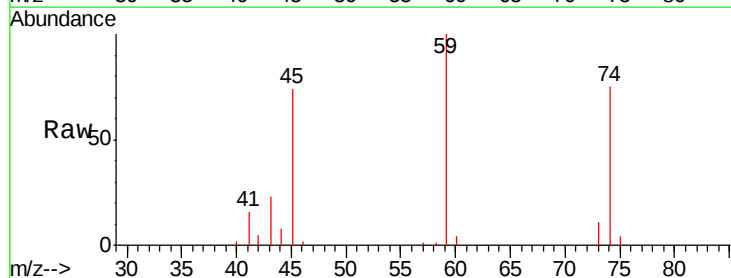
apatel
 12/5/2018 12:44:24 PM

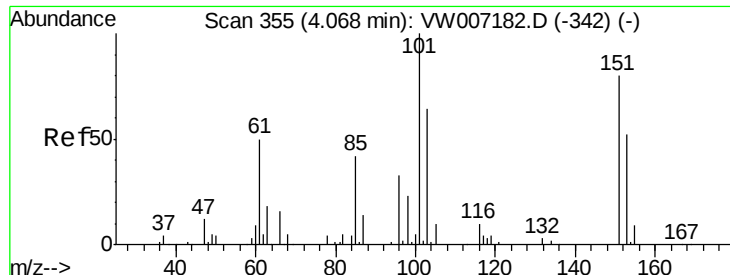


#8

Diethyl Ether
 Concen: 21.057 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. -0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.4	47.2	141.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.344 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

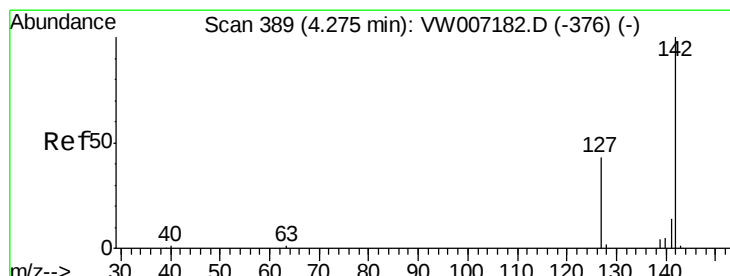
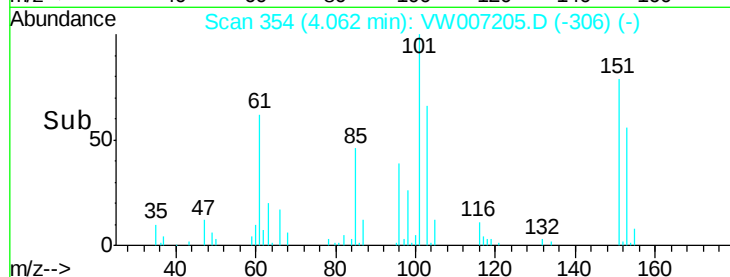
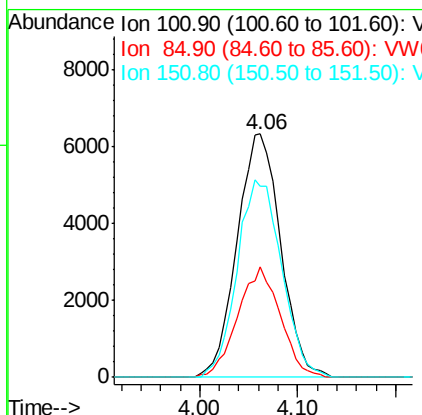
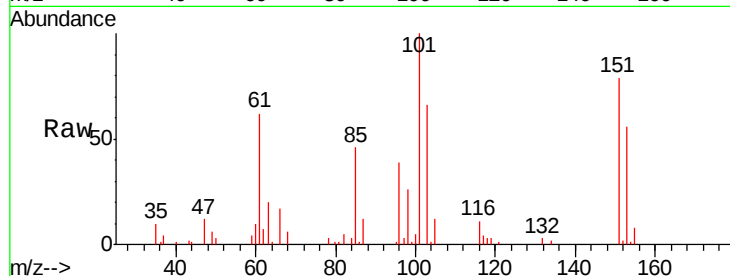
ClientSampleId :

VW1204SBS02

Tgt Ion:	101	Resp:	19652
Ion Ratio	Lower	Upper	
101	100		
85	44.0	33.4	50.2
151	82.7	63.9	95.9

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#10

Methyl Iodide

Concen: 18.033 ug/l

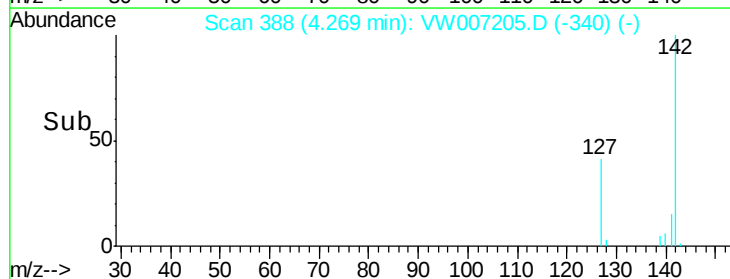
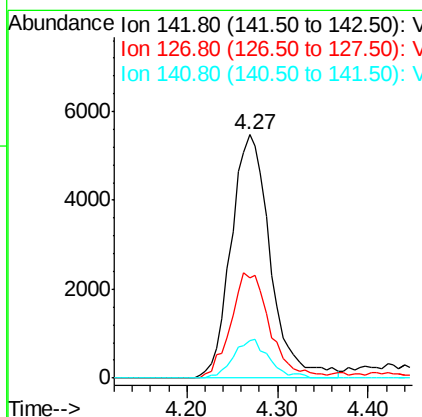
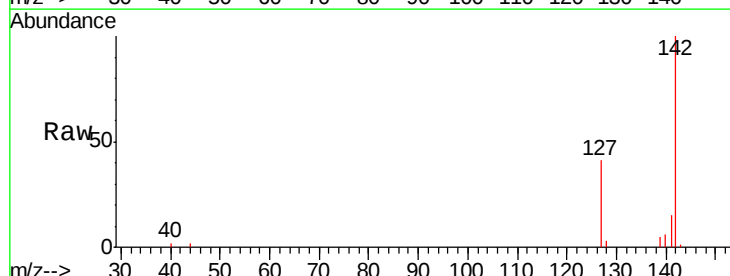
RT: 4.27 min Scan# 388

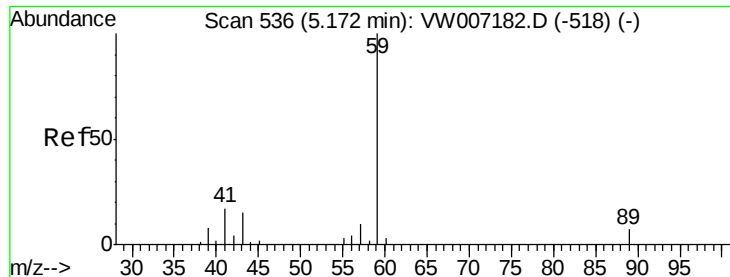
Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	142	Resp:	16457
Ion Ratio	Lower	Upper	
142	100		
127	43.1	34.9	52.3
141	14.4	11.7	17.5





#11

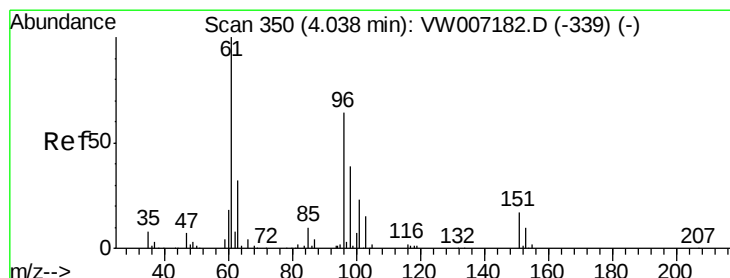
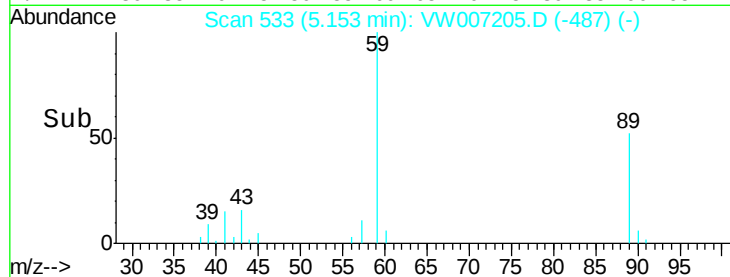
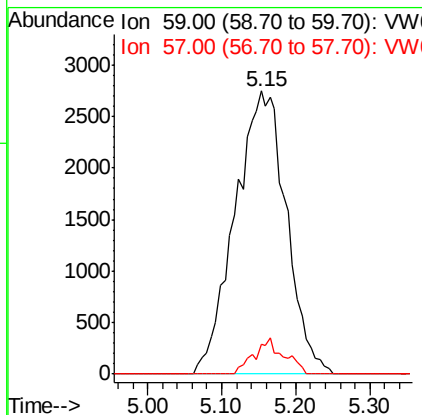
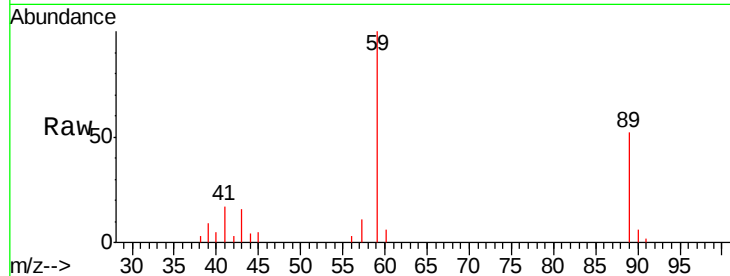
Tert butyl alcohol
 Concen: 133.129 ug/l
 RT: 5.15 min Scan# 533
 Delta R.T. -0.02 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampled :
 VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	7.4	7.1	10.7

Manual Integrations
 APPROVED

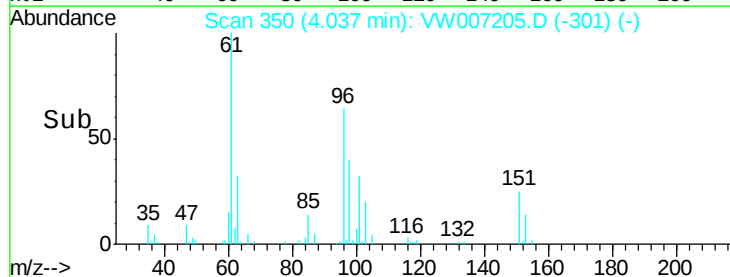
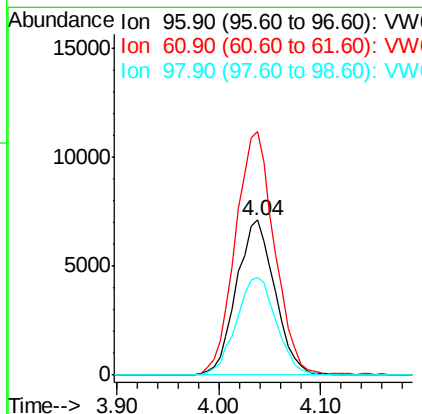
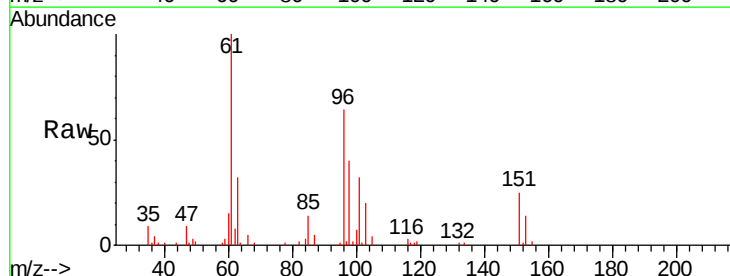
apatel
 12/5/2018 12:44:24 PM

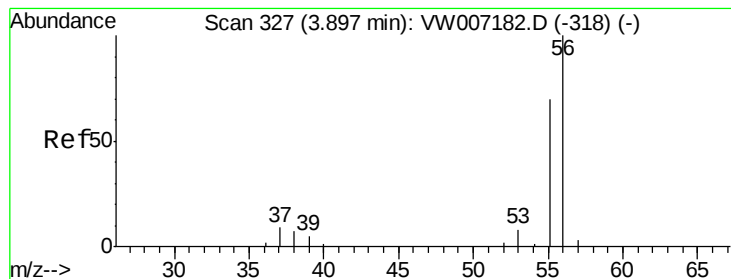


#12

1,1-Dichloroethene
 Concen: 18.615 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.9	124.1	186.1
98	63.0	48.6	72.8





#13

Acrolein

Concen: 101.076 ug/l

RT: 3.90 min Scan# 327

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 56 Resp: 6914

Ion Ratio Lower Upper

56 100

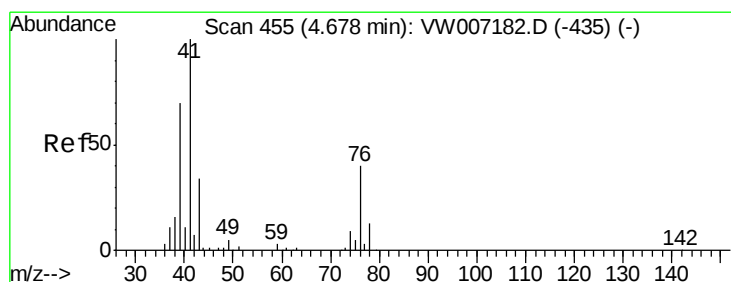
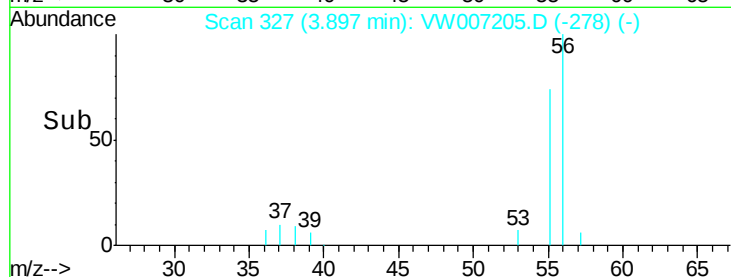
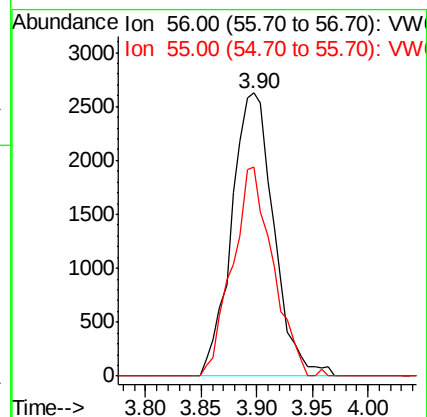
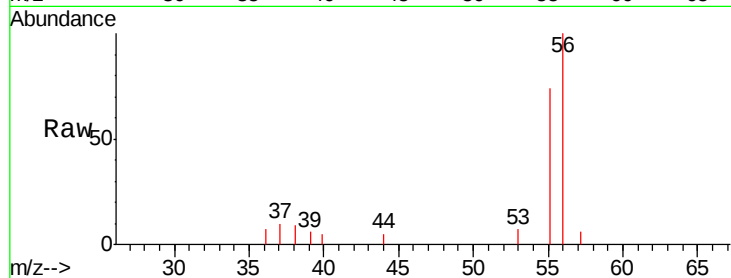
55 70.6 56.9 85.3

Manual Integrations

APPROVED

apatel

12/5/2018 12:44:24 PM



#14

Allyl chloride

Concen: 19.871 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

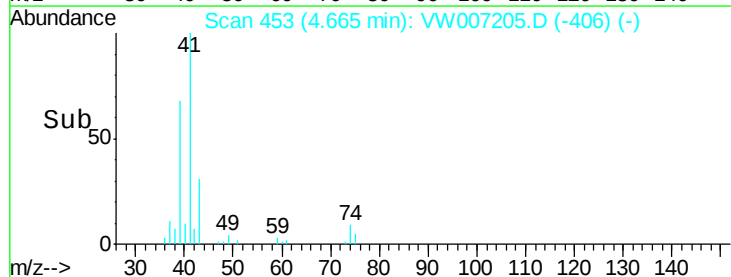
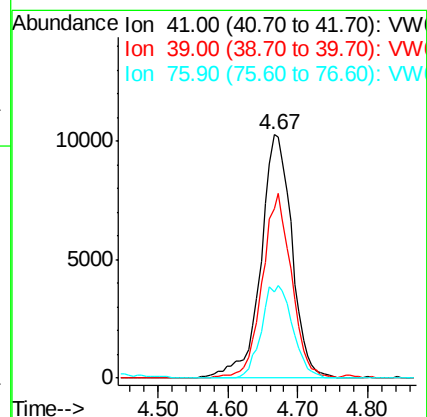
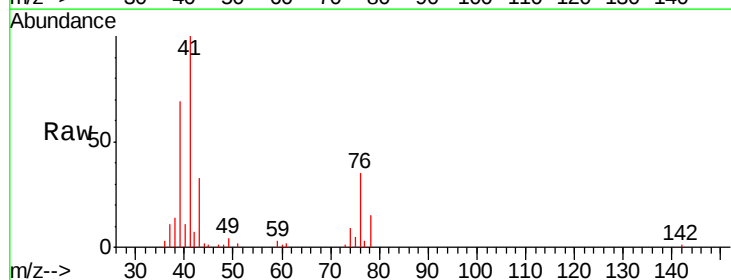
Tgt Ion: 41 Resp: 31977

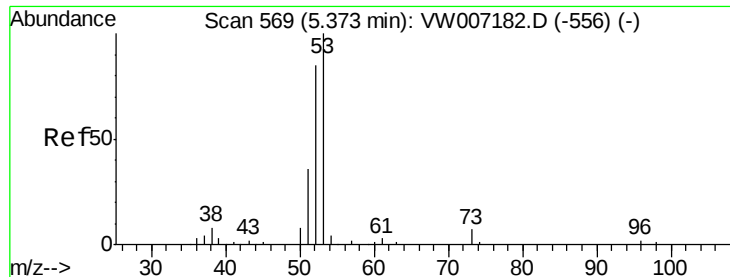
Ion Ratio Lower Upper

41 100

39 71.2 55.9 83.9

76 38.1 30.8 46.2





#15

Acrylonitrile

Concen: 107.195 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

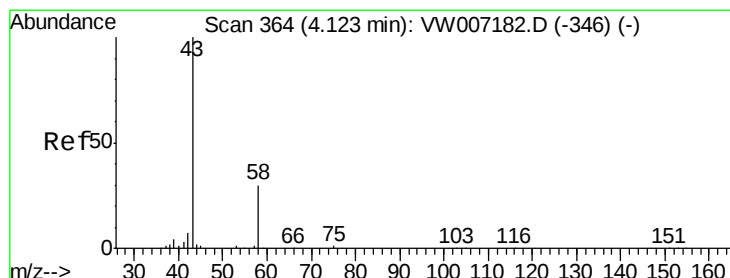
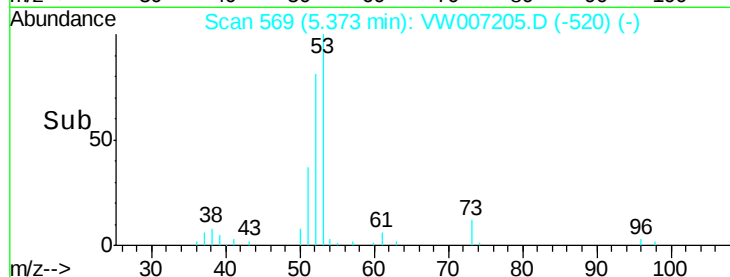
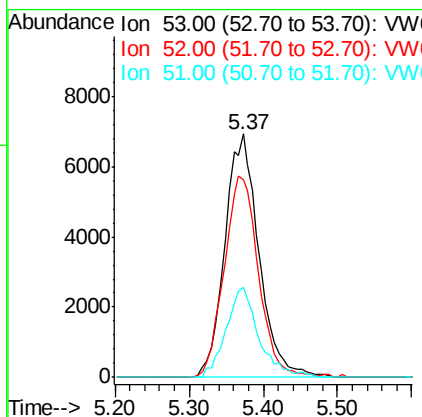
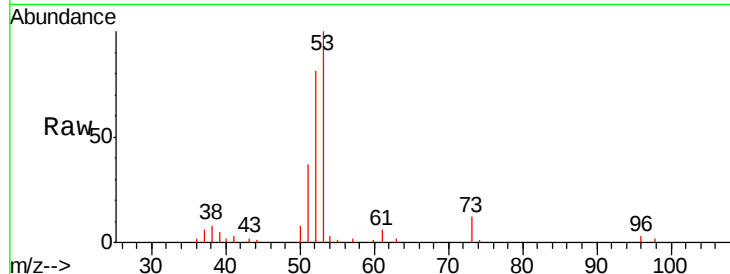
ClientSampleId :

VW1204SBS02

Tgt Ion:	53	Resp:	22152
Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.1	99.1
51	35.5	30.3	45.5

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#16

Acetone

Concen: 82.870 ug/l

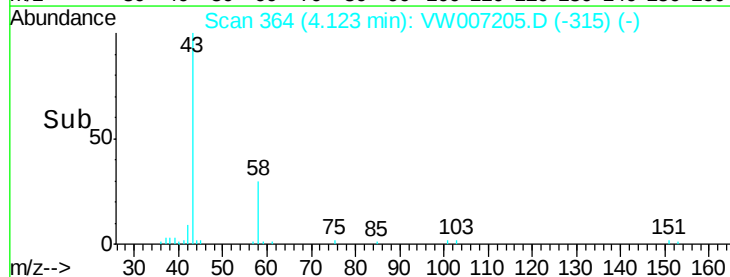
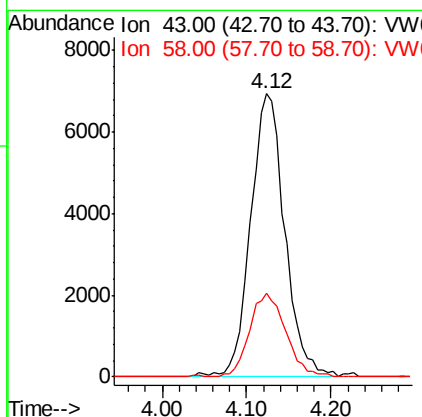
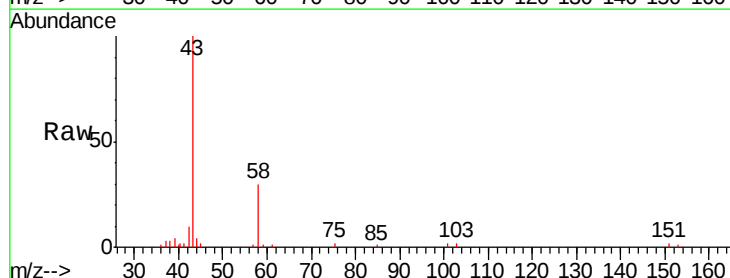
RT: 4.12 min Scan# 364

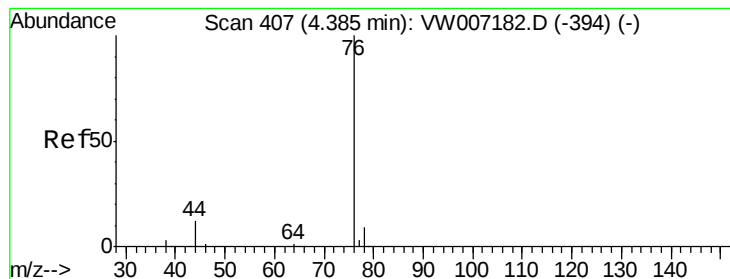
Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	43	Resp:	19152
Ion	Ratio	Lower	Upper
43	100		
58	29.8	23.8	35.8





#17

Carbon Disulfide

Concen: 18.487 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 76 Resp: 61178

Ion Ratio Lower Upper

76 100

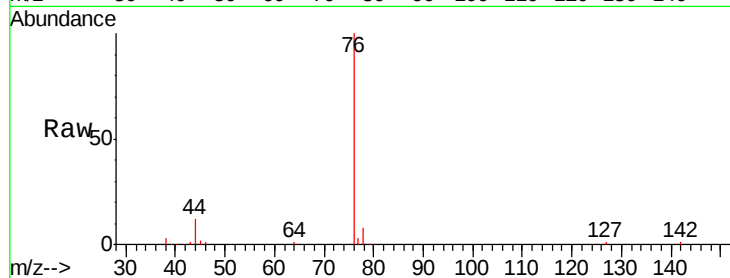
78 8.2 7.2 10.8

Manual Integrations

APPROVED

apatel

12/5/2018 12:44:24 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

25000

20000

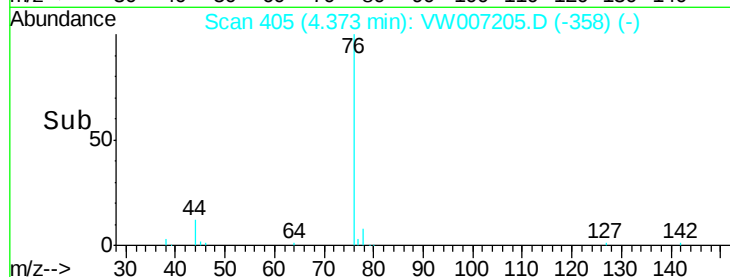
15000

10000

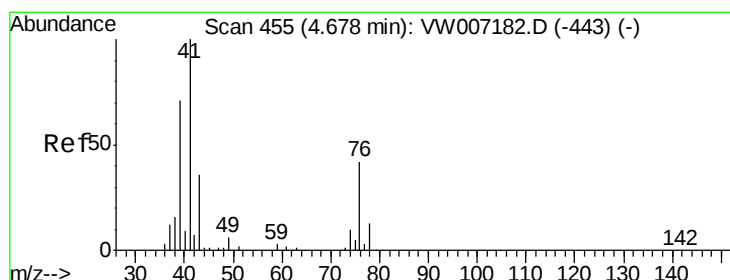
5000

0

Time-->



4.37



#18

Methyl Acetate

Concen: 22.073 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW007205.D

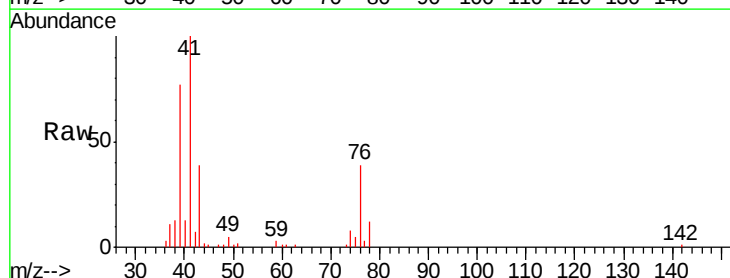
Acq: 05 Dec 2018 01:01

Tgt Ion: 43 Resp: 11644

Ion Ratio Lower Upper

43 100

74 24.8 20.1 30.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

4000

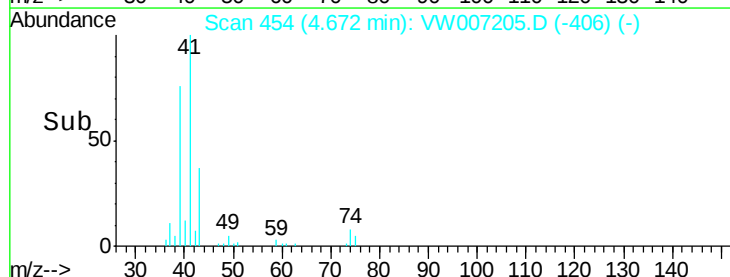
3000

2000

1000

0

Time-->



4.67



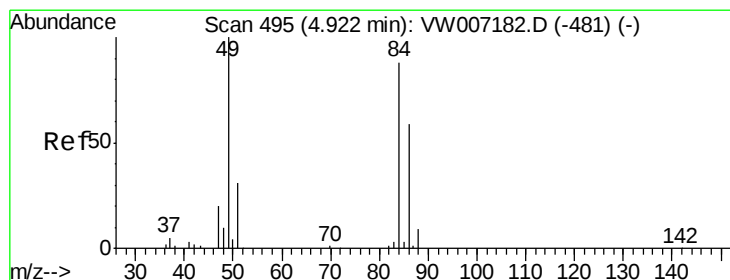
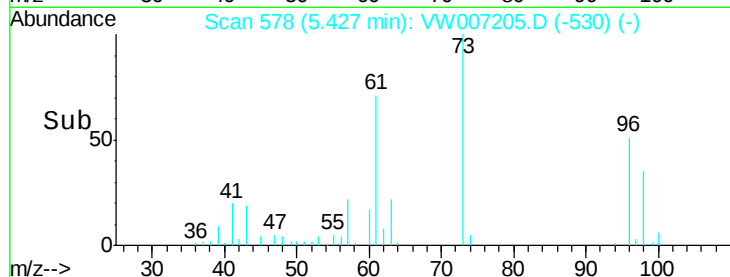
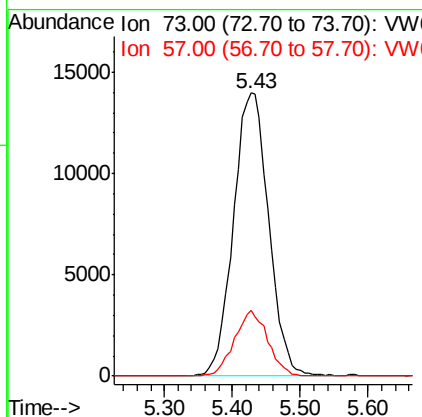
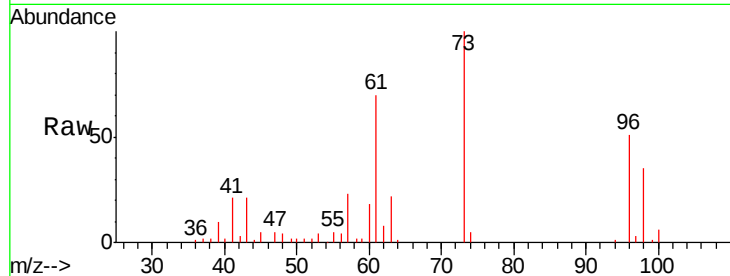
#19
Methyl tert-butyl Ether
Concen: 21.272 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion: 73 Resp: 50281
Ion Ratio Lower Upper
73 100
57 23.1 16.6 25.0

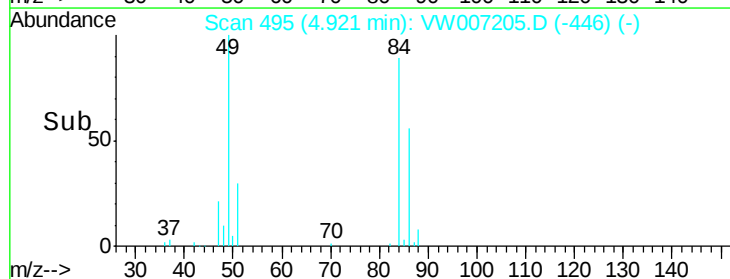
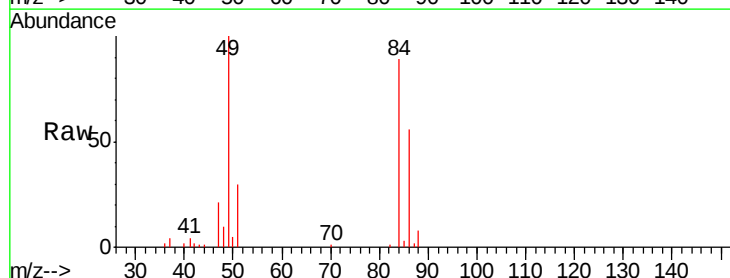
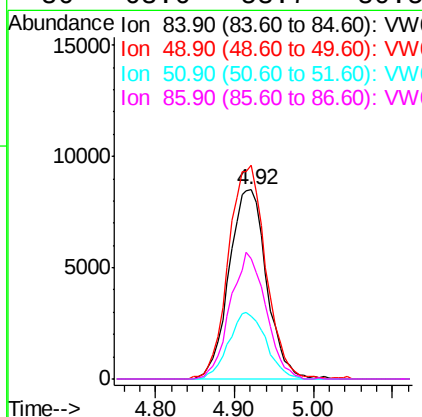
Manual Integrations
APPROVED

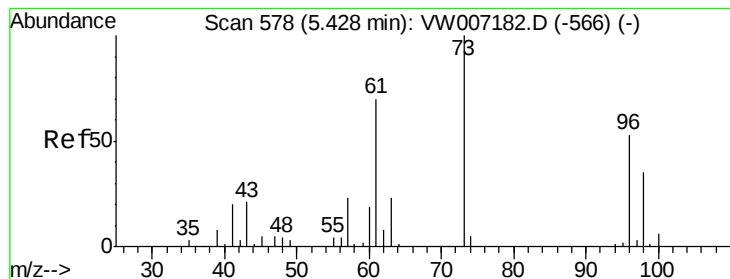
apatel
12/5/2018 12:44:24 PM



#20
Methylene Chloride
Concen: 21.222 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion: 84 Resp: 28193
Ion Ratio Lower Upper
84 100
49 112.8 90.6 135.8
51 33.3 27.6 41.4
86 63.6 53.7 80.5





#21

trans-1,2-Dichloroethene

Concen: 19.772 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

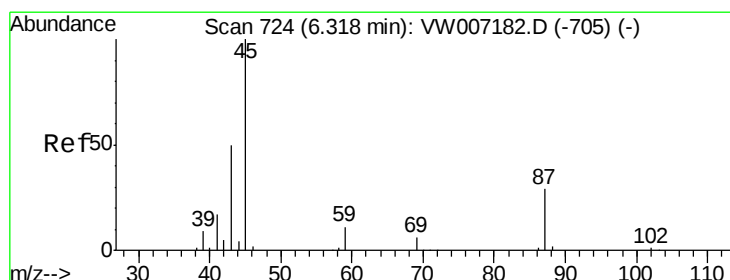
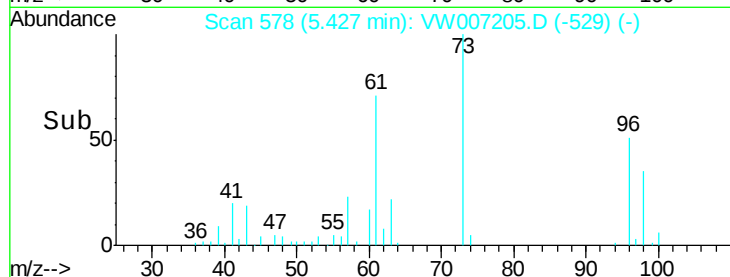
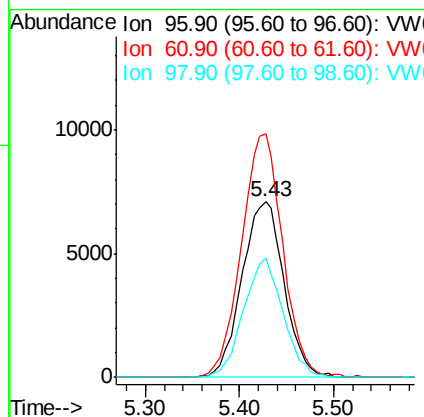
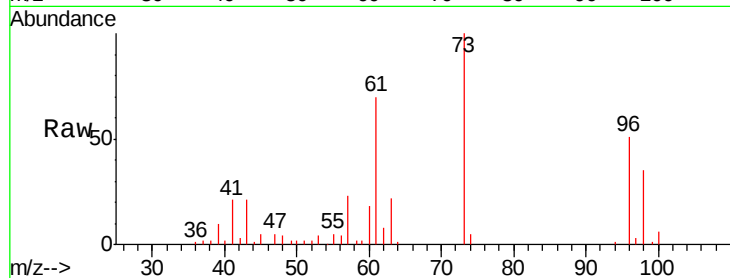
ClientSampleId :

VW1204SBS02

Tgt Ion:	96	Resp:	22164
Ion	Ratio	Lower	Upper
96	100		
61	138.8	105.5	158.3
98	68.4	52.6	79.0

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#22

Diisopropyl ether

Concen: 21.031 ug/l

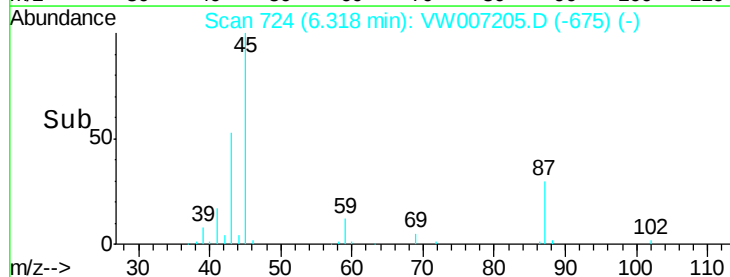
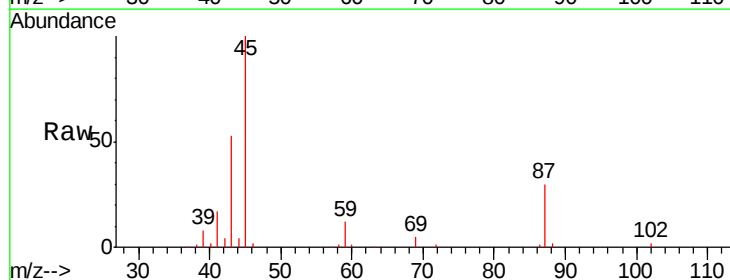
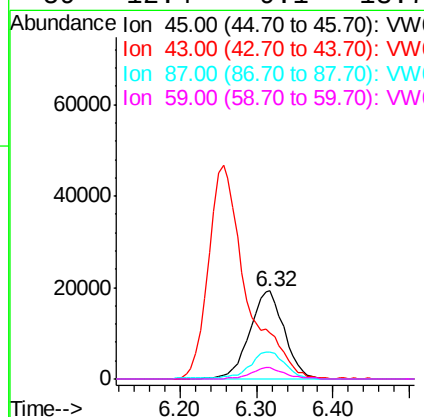
RT: 6.32 min Scan# 724

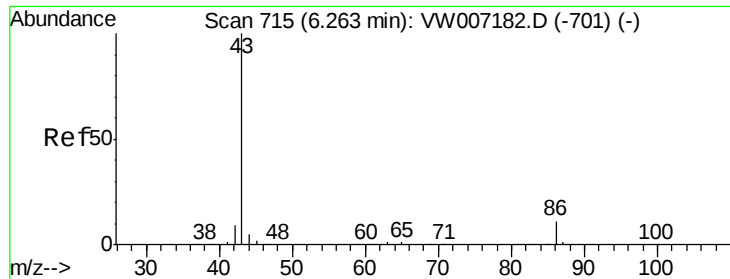
Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	45	Resp:	60755
Ion	Ratio	Lower	Upper
45	100		
43	52.0	40.8	61.2
87	29.8	24.0	36.0
59	12.4	9.1	13.7





#23

Vinyl Acetate

Concen: 101.942 ug/l

RT: 6.26 min Scan# 714

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleID :

VW1204SBS02

Tgt Ion: 43 Resp: 160689

Ion Ratio Lower Upper

43 100

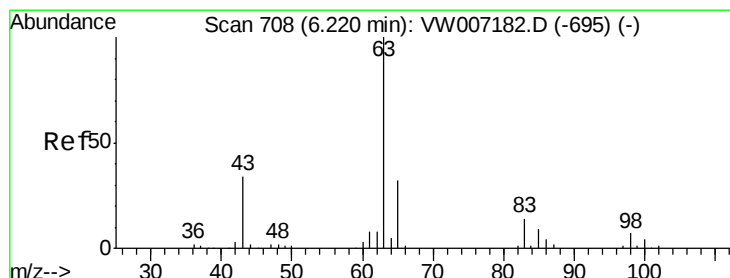
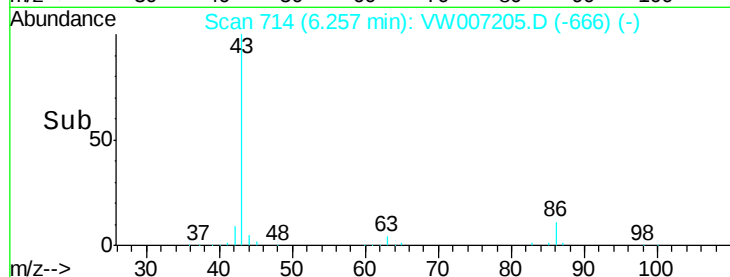
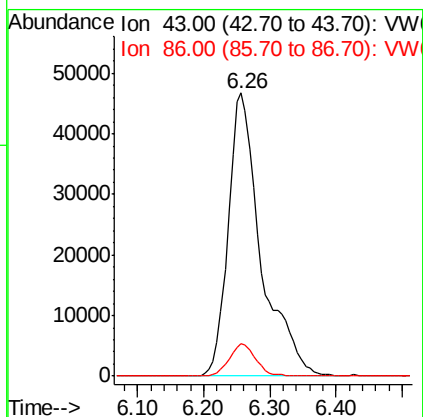
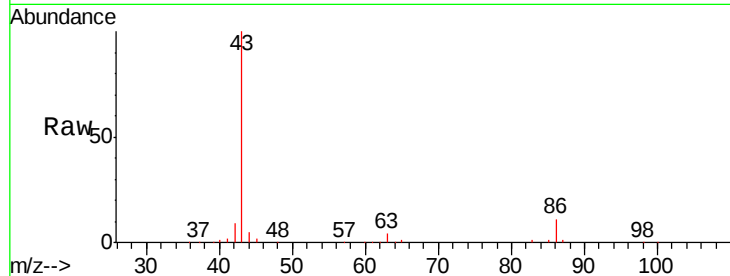
86 11.3 9.0 13.6

Manual Integrations

APPROVED

apatel

12/5/2018 12:44:24 PM



#24

1,1-Dichloroethane

Concen: 20.508 ug/l

RT: 6.22 min Scan# 708

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

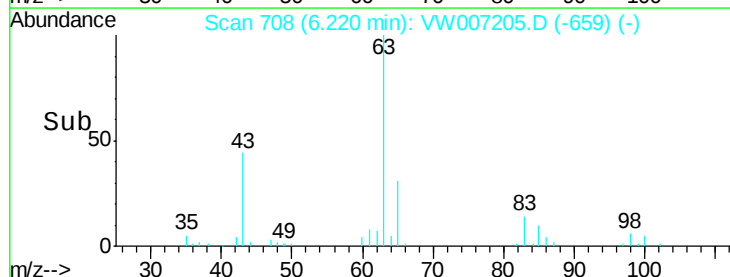
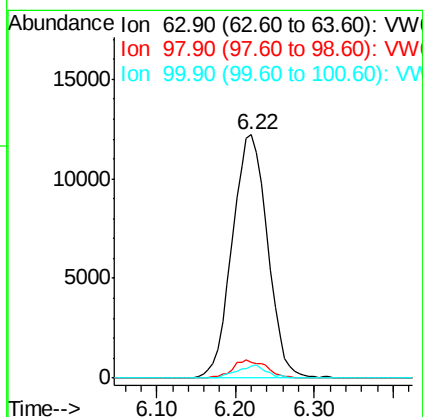
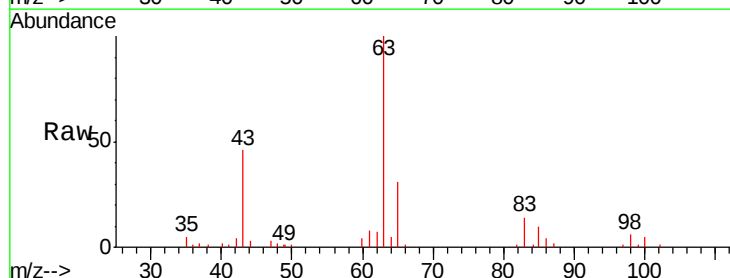
Tgt Ion: 63 Resp: 37971

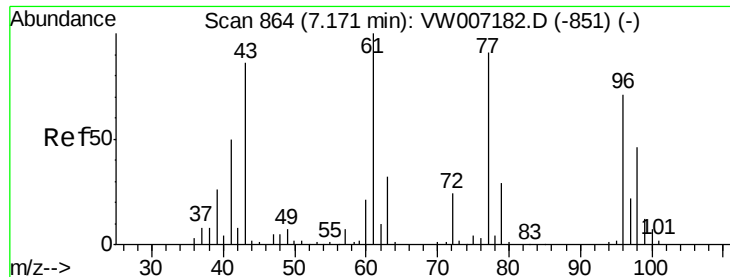
Ion Ratio Lower Upper

63 100

98 6.3 3.5 10.5

100 4.8 2.1 6.2





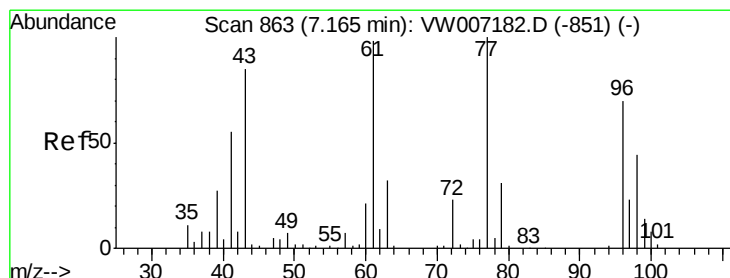
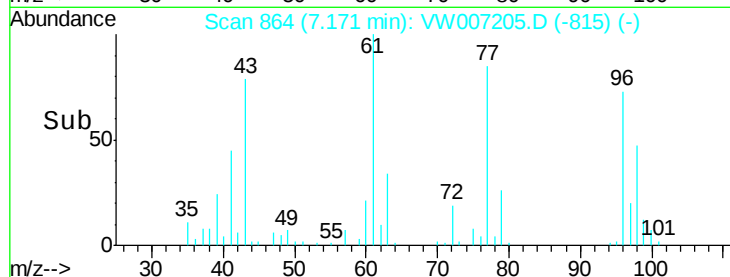
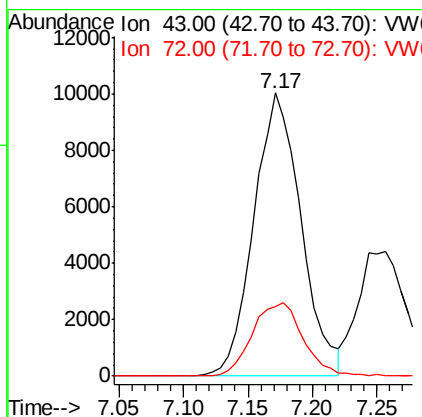
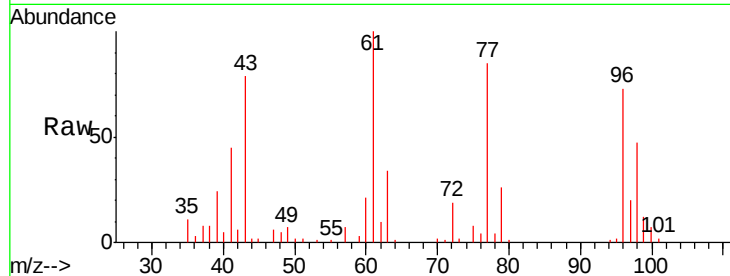
#25
2-Butanone
Concen: 95.532 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion: 43 Resp: 25593
Ion Ratio Lower Upper
43 100
72 24.5 22.8 34.2

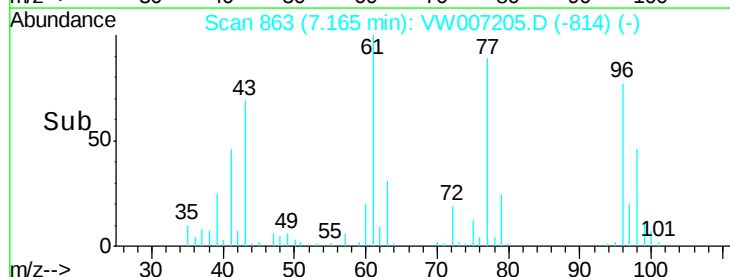
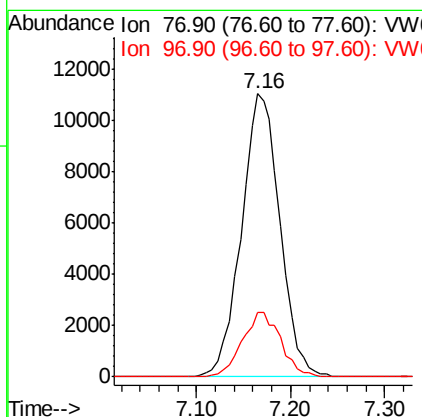
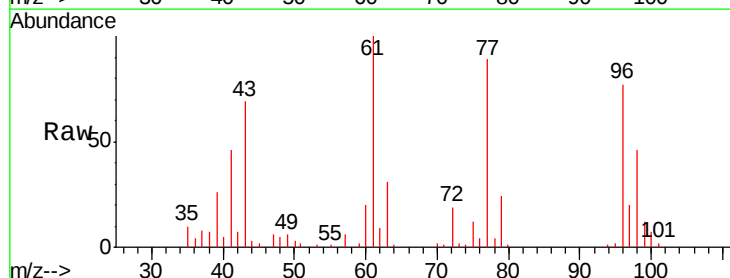
Manual Integrations
APPROVED

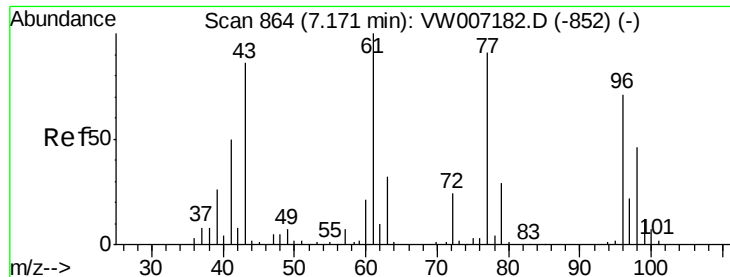
apatel
12/5/2018 12:44:24 PM



#26
2,2-Dichloropropane
Concen: 17.683 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion: 77 Resp: 31463
Ion Ratio Lower Upper
77 100
97 22.8 11.5 34.4





#27

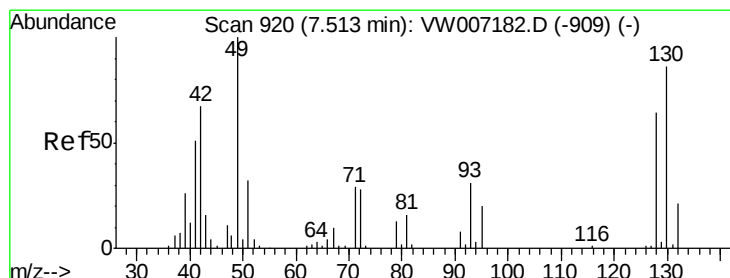
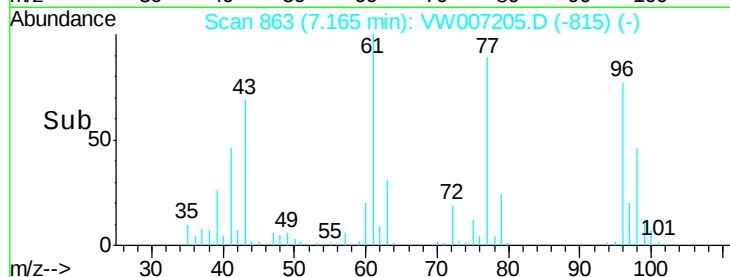
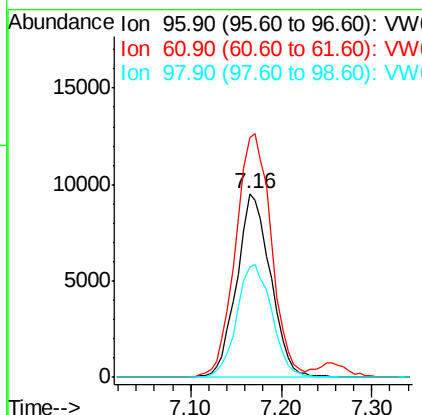
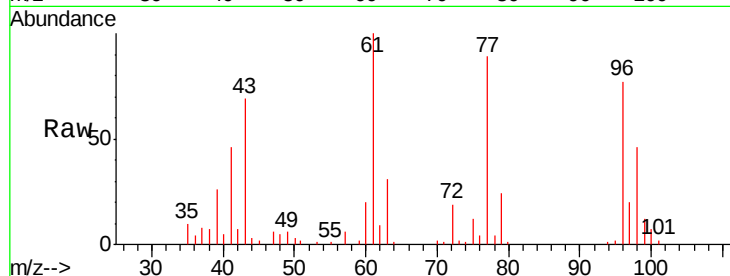
cis-1,2-Dichloroethene
Concen: 20.466 ug/l
RT: 7.16 min Scan# 863
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	282.4
98	63.6	0.0	129.8

Manual Integrations
APPROVED

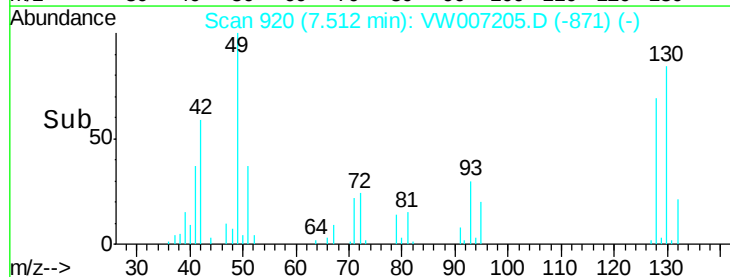
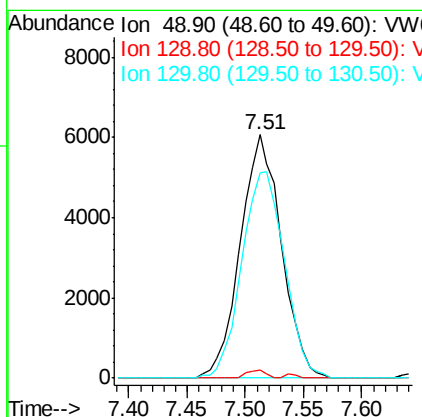
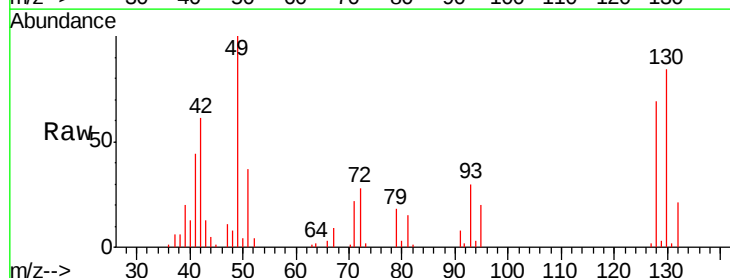
apatel
12/5/2018 12:44:24 PM

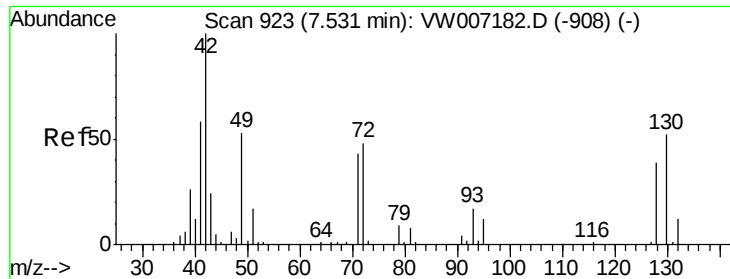


#28

Bromochloromethane
Concen: 22.308 ug/l
RT: 7.51 min Scan# 920
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.8
130	88.0	70.3	105.5





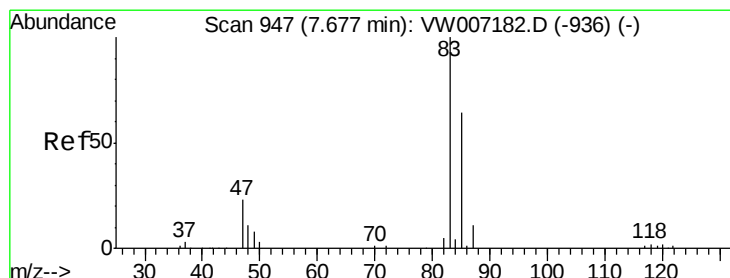
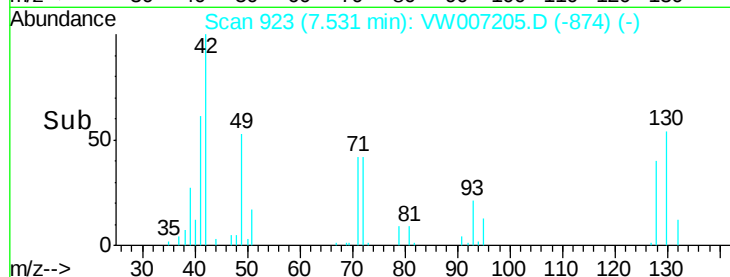
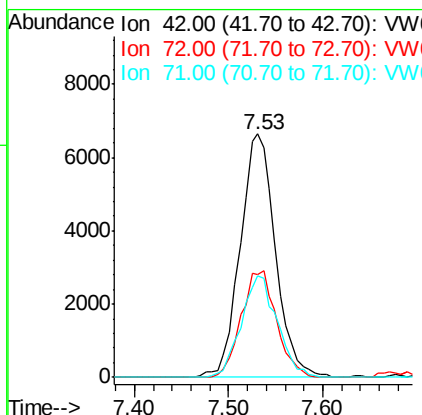
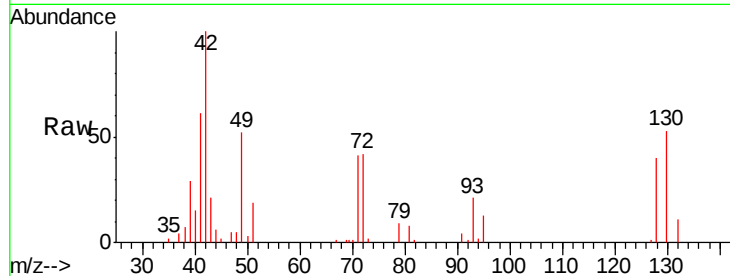
#29
Tetrahydrofuran
Concen: 104.856 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.8	36.6	55.0
71	42.8	34.8	52.2

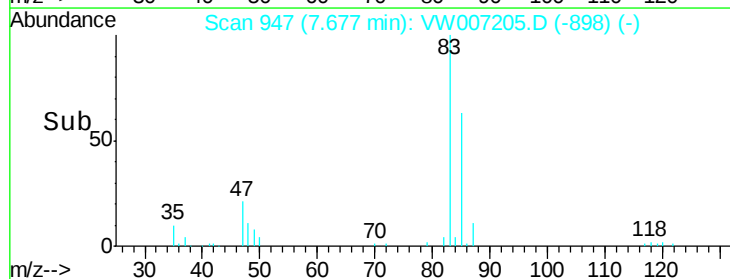
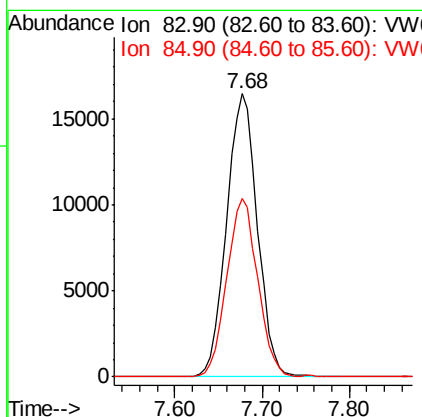
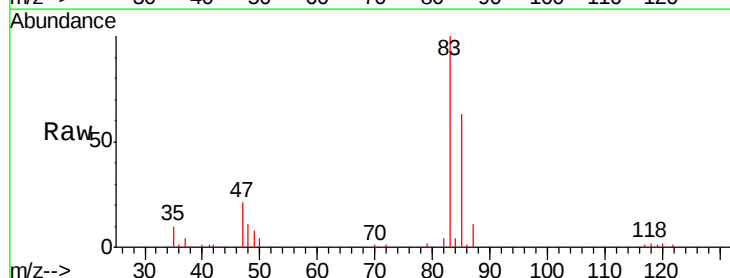
Manual Integrations
APPROVED

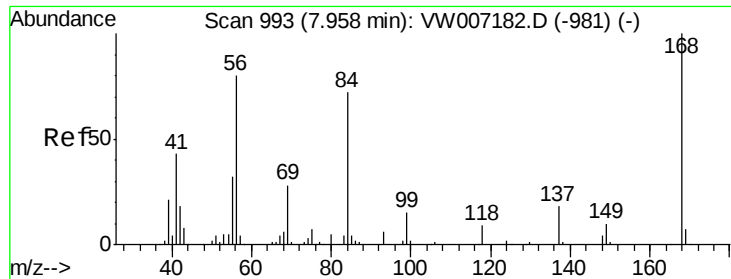
apatel
12/5/2018 12:44:24 PM



#30
Chloroform
Concen: 20.881 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.5	77.3





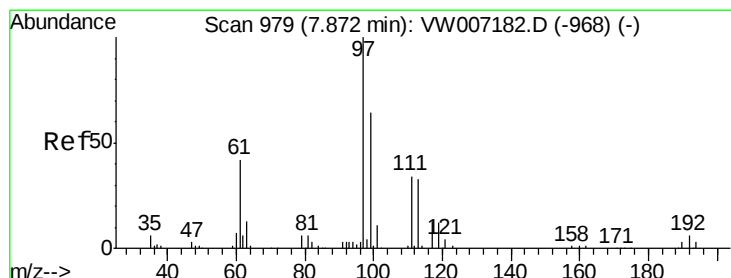
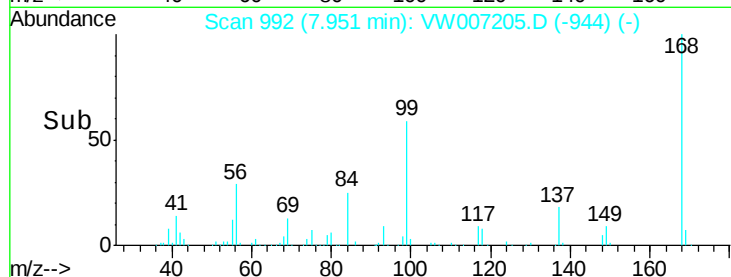
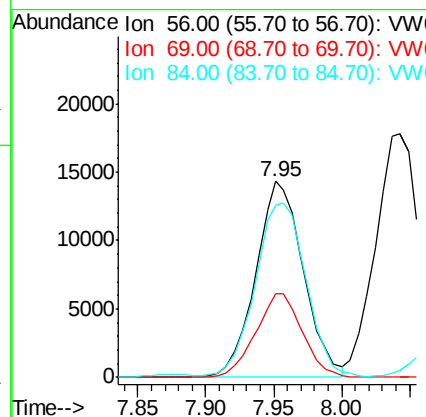
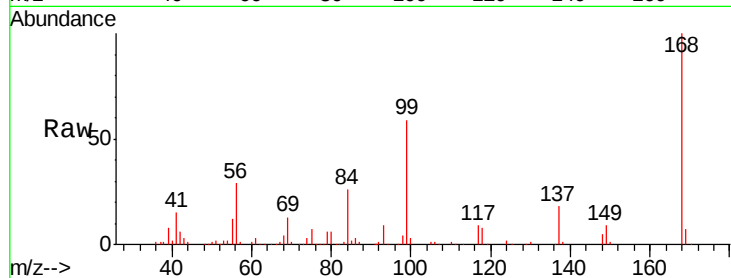
#31
Cyclohexane
Concen: 18.073 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	42.9	28.2	42.2#
84	86.3	72.1	108.1

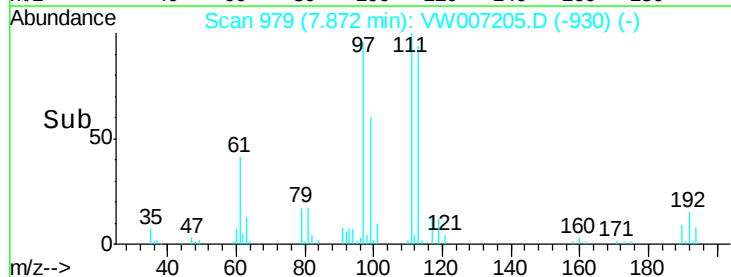
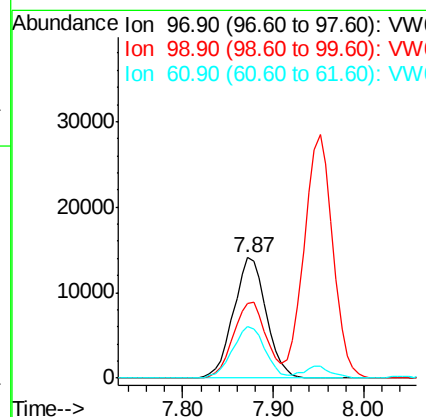
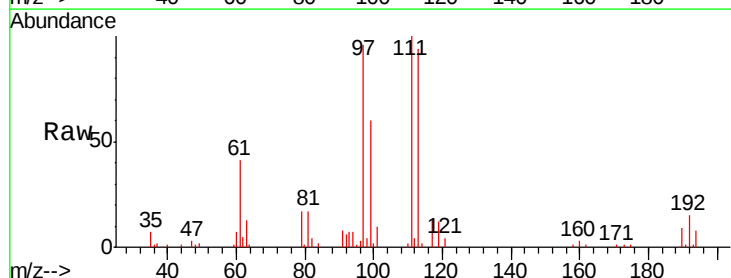
Manual Integrations
APPROVED

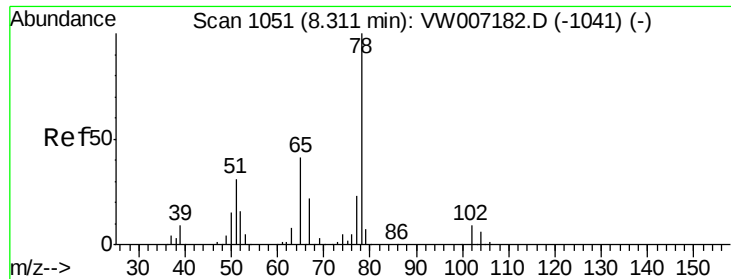
apatel
12/5/2018 12:44:24 PM



#32
1,1,1-Trichloroethane
Concen: 19.569 ug/l
RT: 7.87 min Scan# 979
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.3	76.9
61	42.2	33.2	49.8





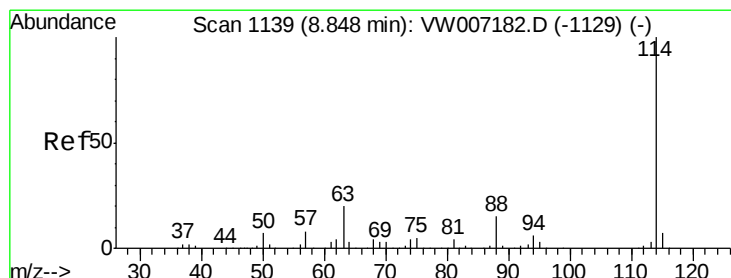
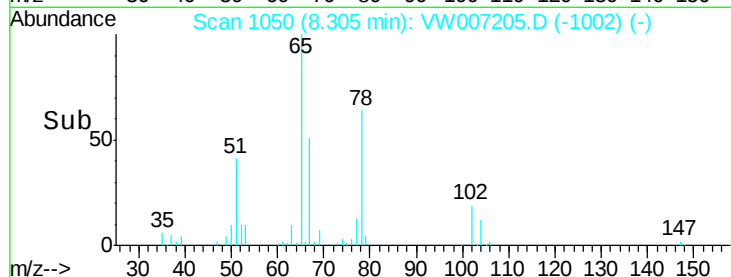
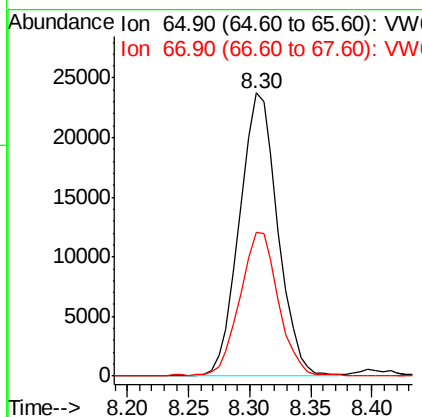
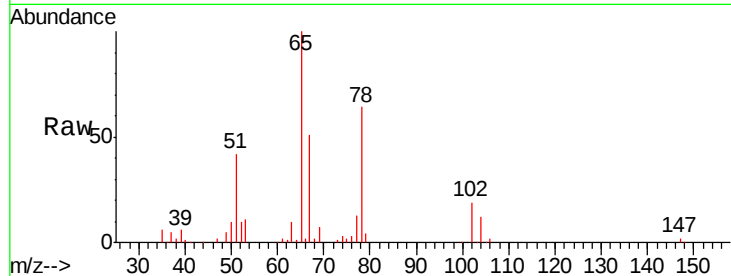
#33
 1,2-Dichloroethane-d4
 Concen: 52.849 ug/l
 RT: 8.30 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampled :
 VW1204SBS02

Tgt Ion: 65 Resp: 51593
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 106.4

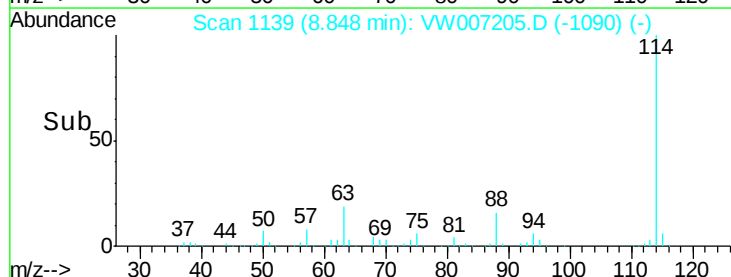
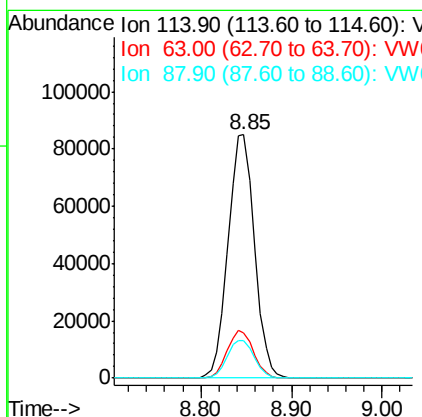
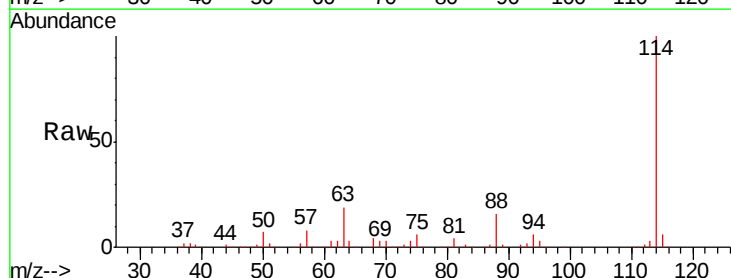
Manual Integrations
 APPROVED

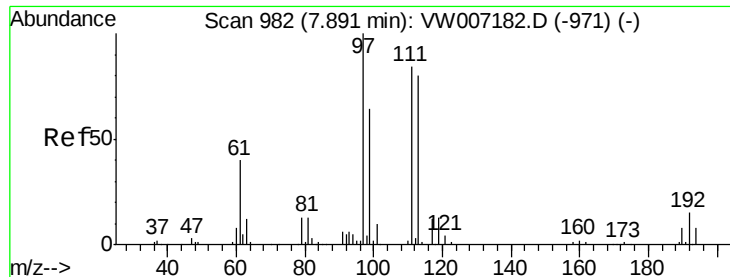
apatel
 12/5/2018 12:44:24 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion: 114 Resp: 172073
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 40.2
 88 15.6 0.0 30.0





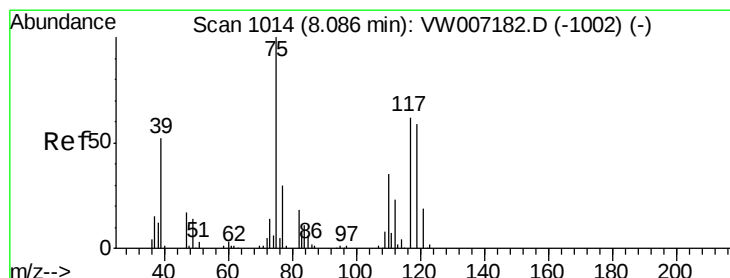
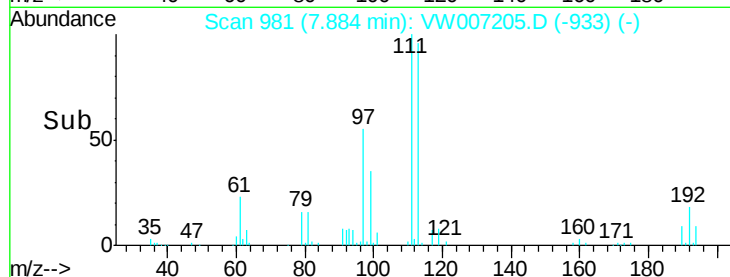
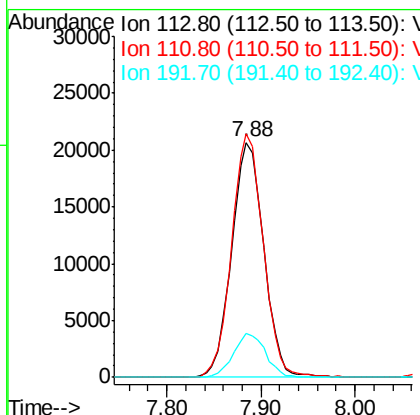
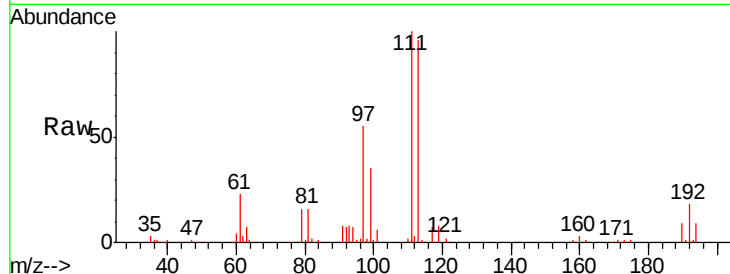
#35
 Dibromofluoromethane
 Concen: 49.619 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	48889		
111	102.3	82.2	123.4	
192	18.4	14.4	21.6	

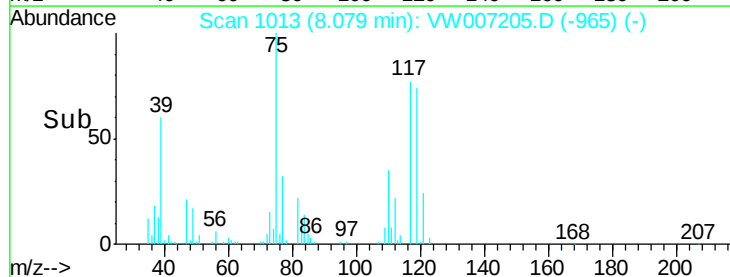
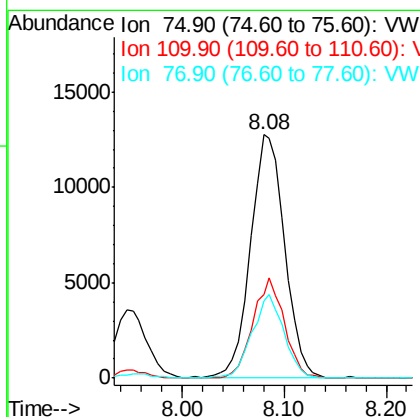
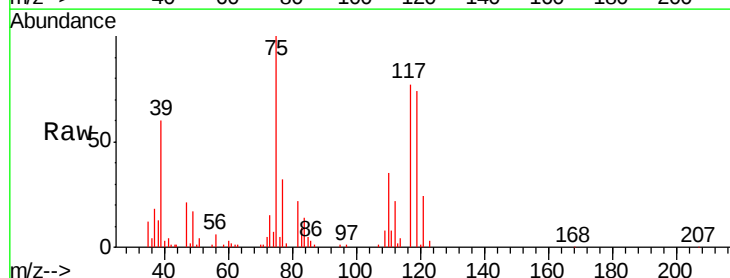
Manual Integrations
 APPROVED

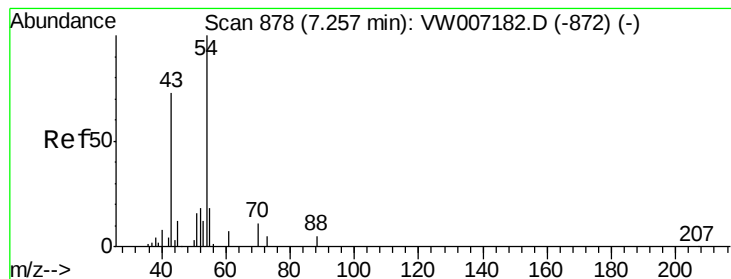
apatel
 12/5/2018 12:44:24 PM



#36
 1,1-Dichloropropene
 Concen: 17.795 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. -0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	29795		
110	37.6	18.3	54.9	
77	32.0	24.9	37.3	





#37

Ethyl Acetate

Concen: 18.257 ug/l

RT: 7.26 min Scan# 878

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

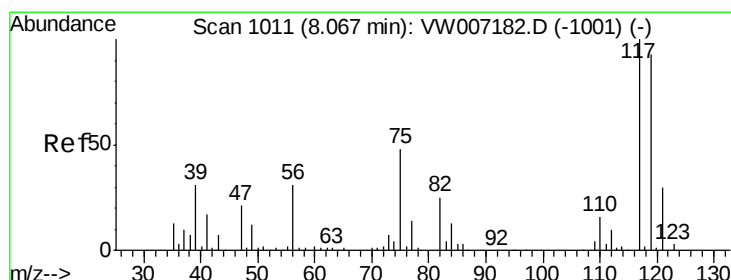
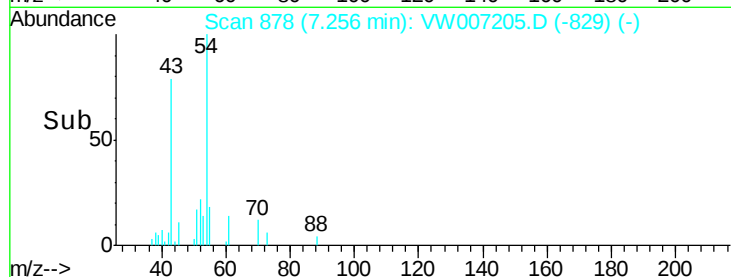
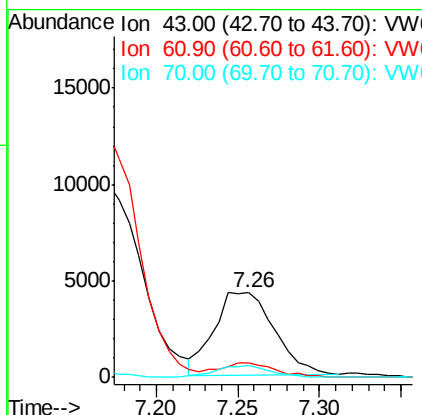
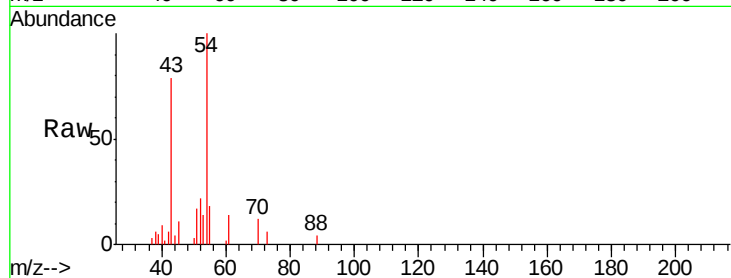
ClientSampleId :

VW1204SBS02

Tgt Ion:	43	Resp:	11057
Ion Ratio	Lower	Upper	
43	100		
61	16.1	12.1	18.1
70	12.8	9.1	13.7

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#38

Carbon Tetrachloride

Concen: 17.623 ug/l

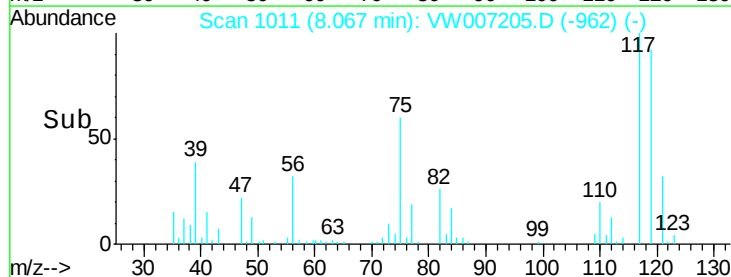
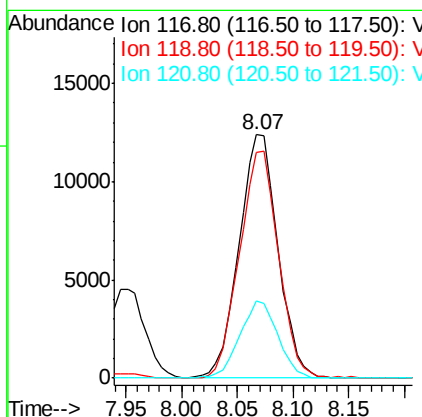
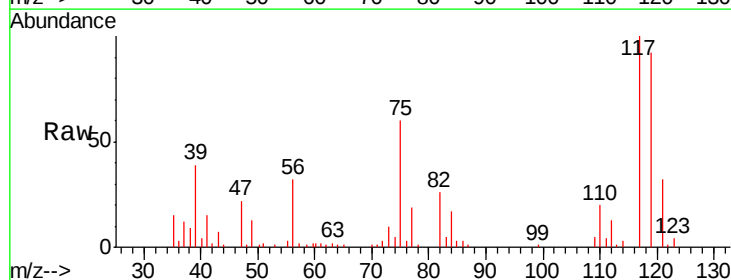
RT: 8.07 min Scan# 1011

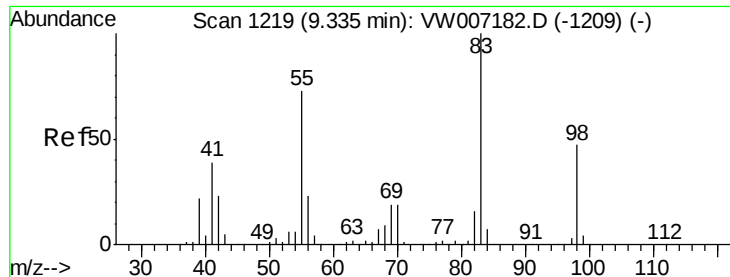
Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	117	Resp:	30116
Ion Ratio	Lower	Upper	
117	100		
119	92.4	74.1	111.1
121	31.7	23.9	35.9





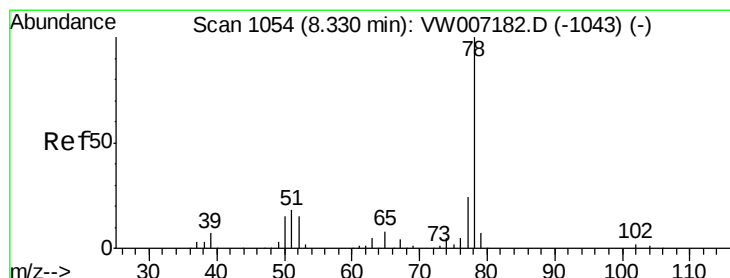
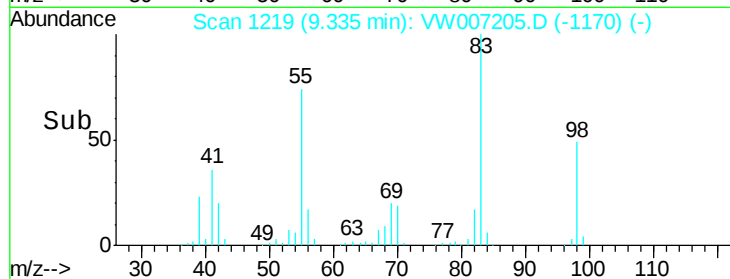
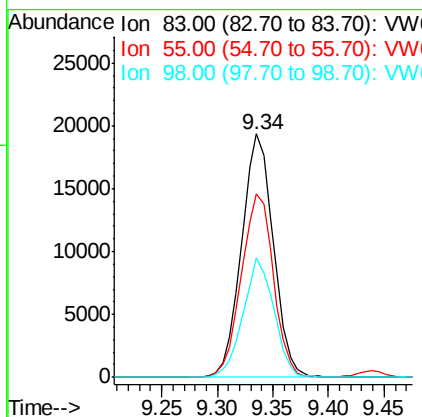
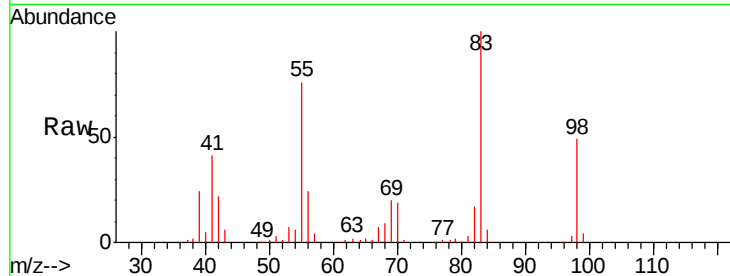
#39
Methylcyclohexane
Concen: 17.181 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.5	58.1	87.1
98	49.0	37.3	55.9

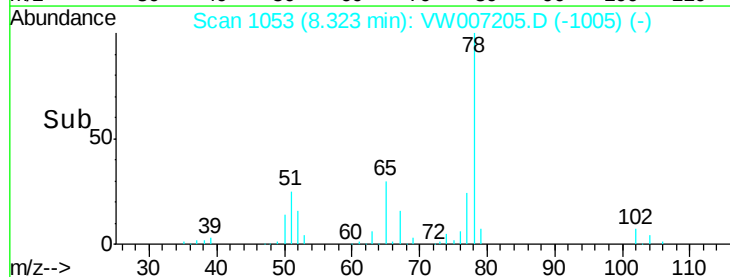
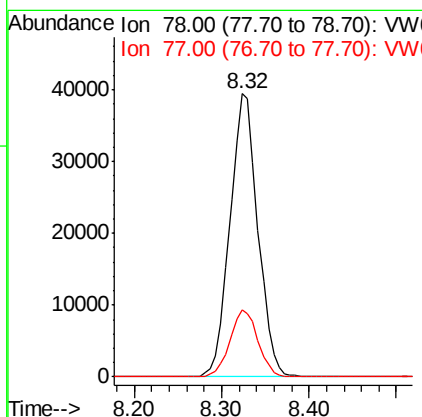
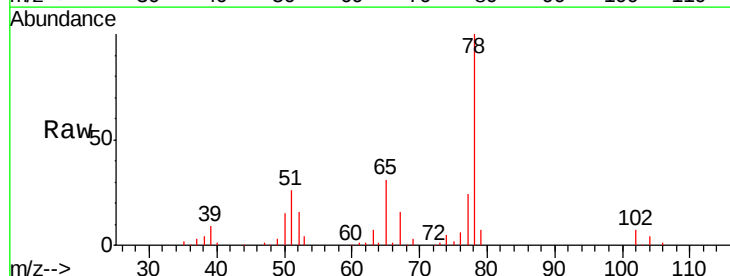
Manual Integrations
APPROVED

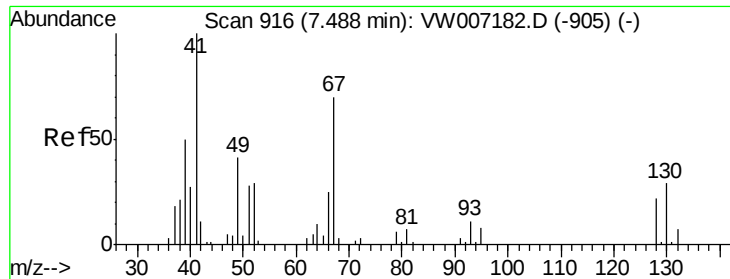
apatel
12/5/2018 12:44:24 PM



#40
Benzene
Concen: 19.078 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.9	28.3





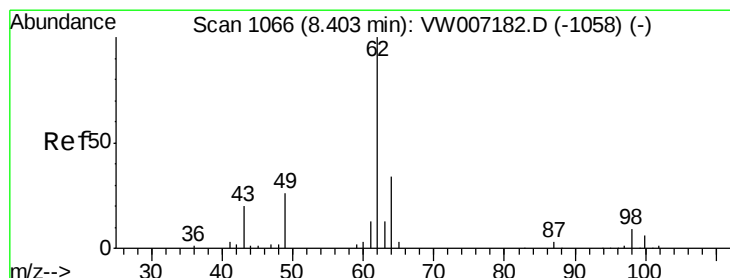
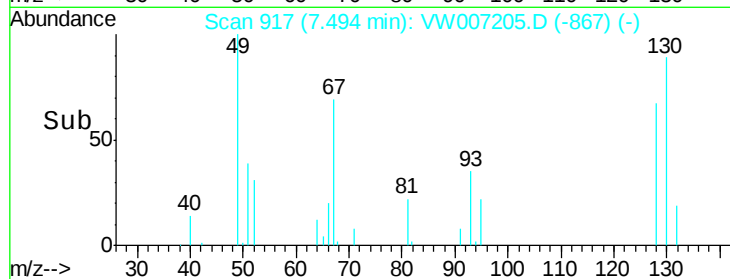
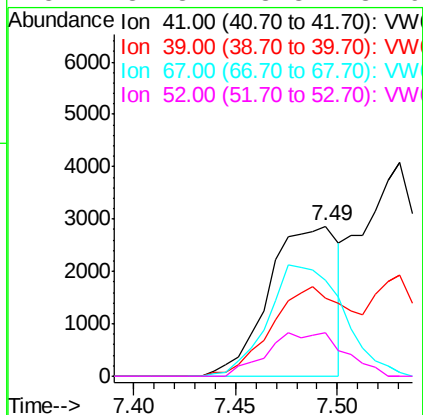
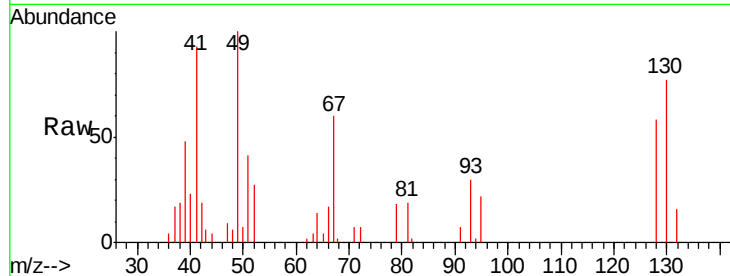
#41
Methacrylonitrile
Concen: 18.706 ug/l
RT: 7.49 min Scan# 917
Delta R.T. 0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion:	41	Resp:	6786
Ion	Ratio	Lower	Upper
41	100		
39	68.5	43.4	65.0#
67	80.3	57.4	86.0
52	32.3	23.3	34.9

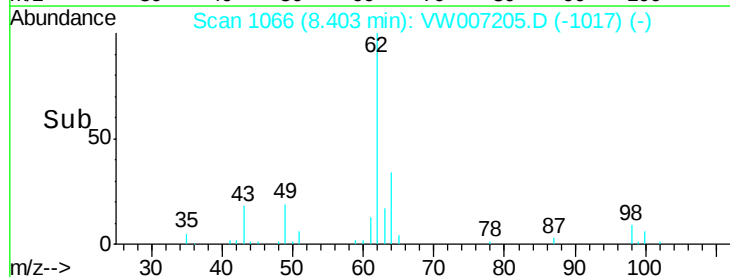
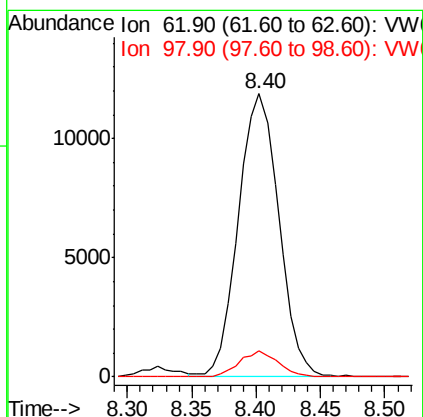
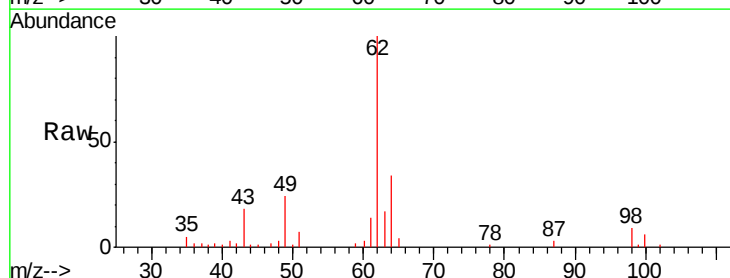
Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#42
1,2-Dichloroethane
Concen: 20.231 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion:	62	Resp:	25959
Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.8





#43

Isopropyl Acetate

Concen: 19.574 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

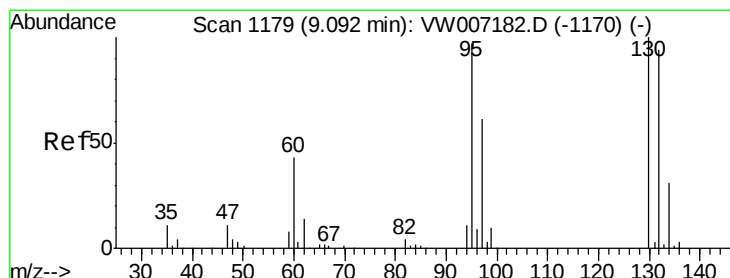
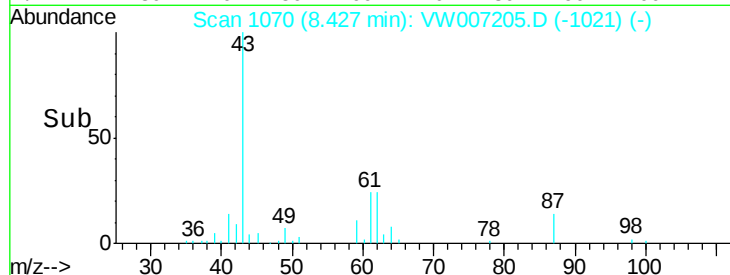
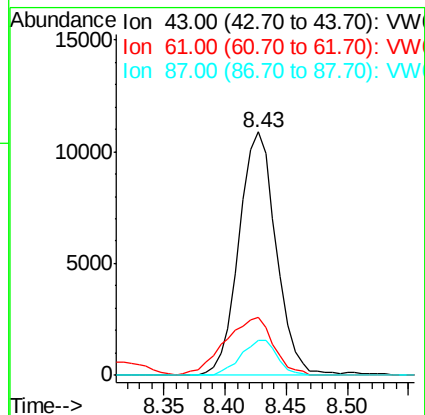
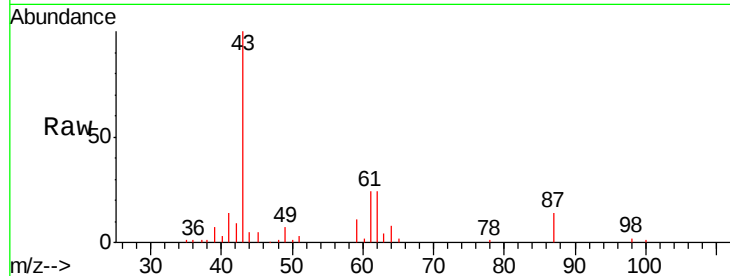
ClientSampleId :

VW1204SBS02

Tgt Ion:	43	Resp:	23024
Ion	Ratio	Lower	Upper
43	100		
61	31.2	25.4	38.0
87	14.0	11.4	17.0

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#44

Trichloroethene

Concen: 19.114 ug/l

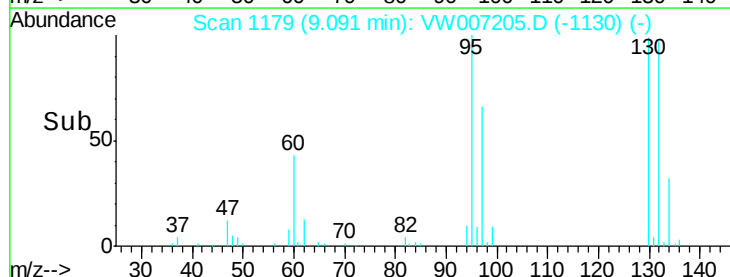
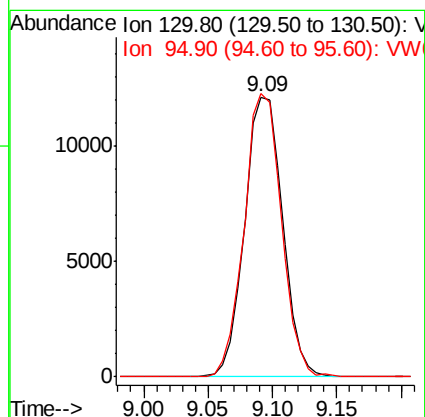
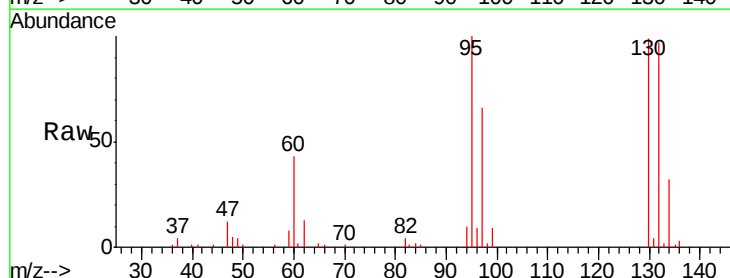
RT: 9.09 min Scan# 1179

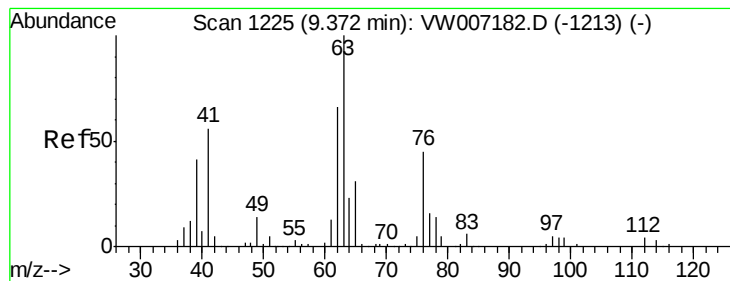
Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	130	Resp:	24667
Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	194.0





#45

1,2-Dichloropropane

Concen: 19.801 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 63 Resp: 21155

Ion Ratio Lower Upper

63 100

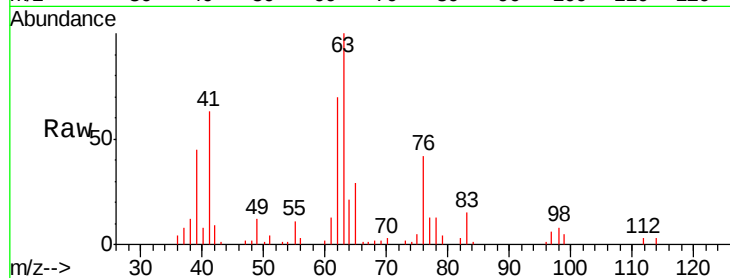
65 29.5 25.0 37.4

Manual Integrations

APPROVED

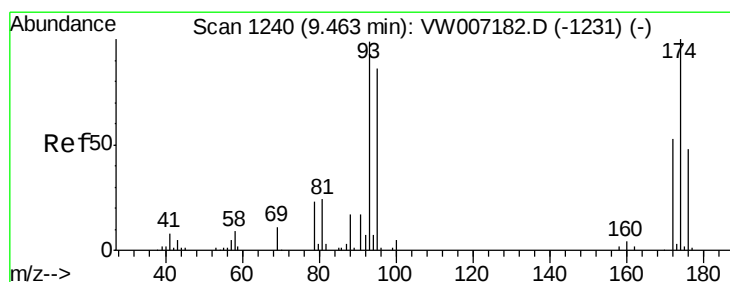
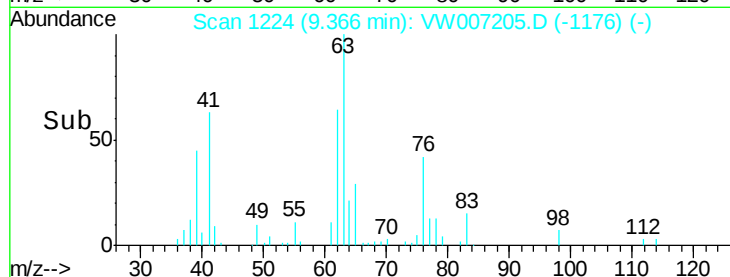
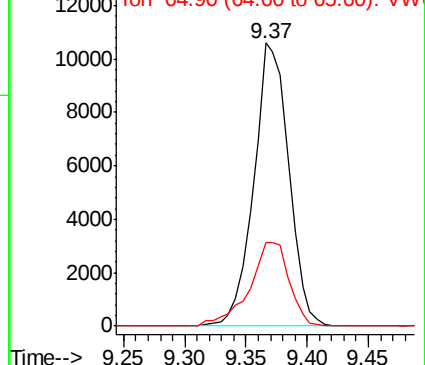
apatel

12/5/2018 12:44:24 PM



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 19.717 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

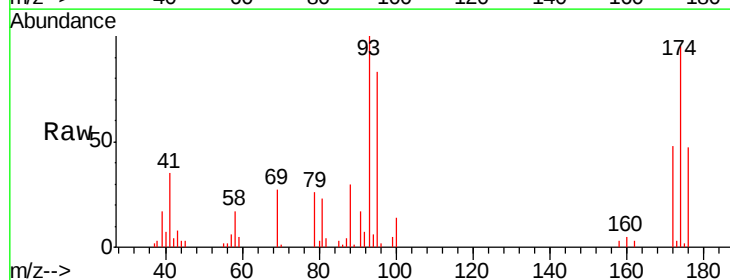
Tgt Ion: 93 Resp: 10946

Ion Ratio Lower Upper

93 100

95 82.5 68.7 103.1

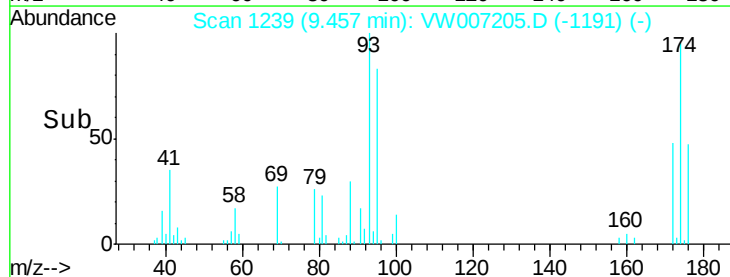
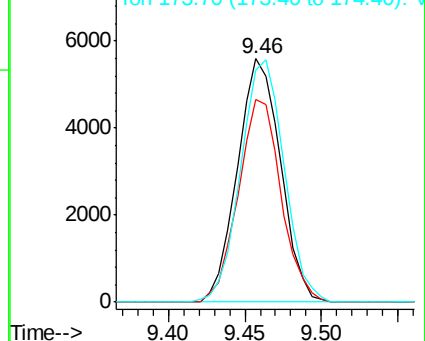
174 100.7 82.9 124.3

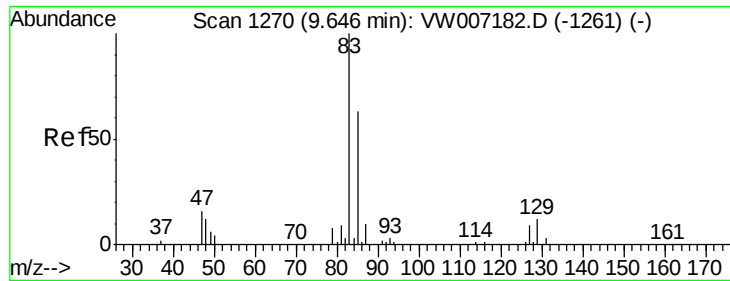


Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 19.602 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

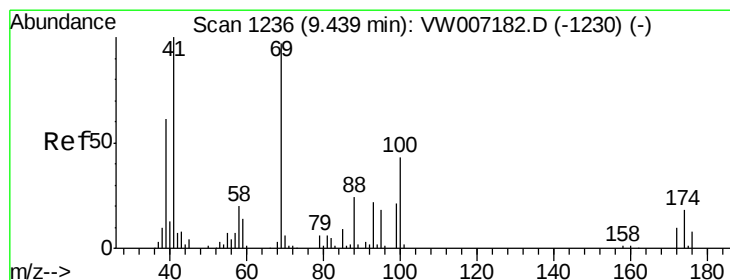
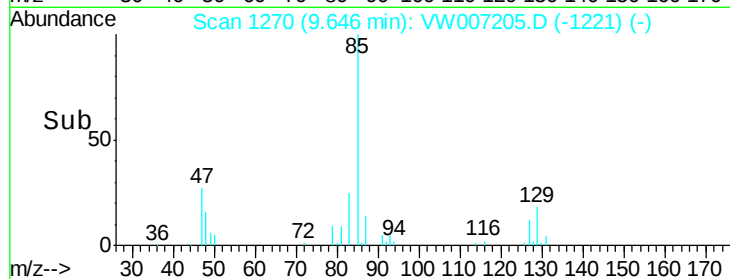
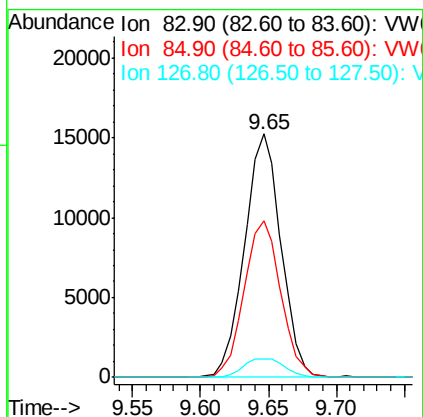
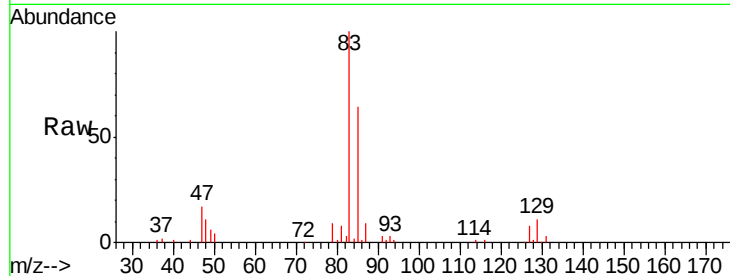
ClientSampleId :

VW1204SBS02

Tgt Ion:	83	Resp:	28625
Ion Ratio	Lower	Upper	
83	100		
85	64.1	50.6	76.0
127	7.7	7.3	10.9

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#48

Methyl methacrylate

Concen: 18.991 ug/l

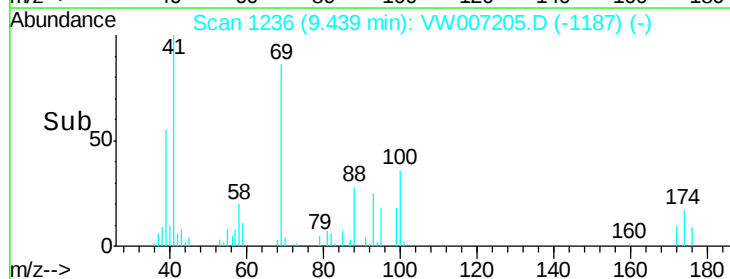
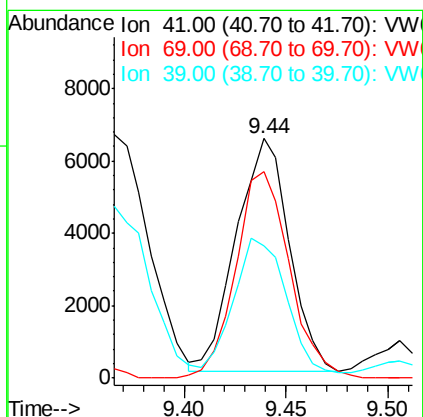
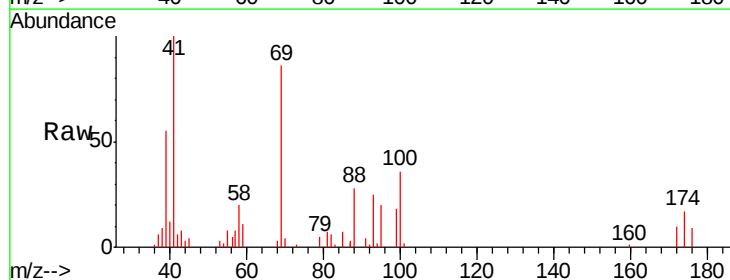
RT: 9.44 min Scan# 1236

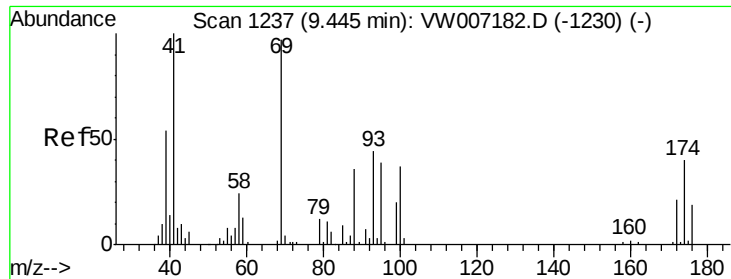
Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion:	41	Resp:	11594
Ion Ratio	Lower	Upper	
41	100		
69	90.3	69.6	104.4
39	61.6	42.4	63.6





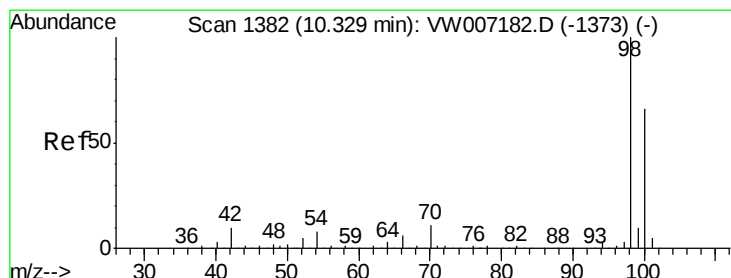
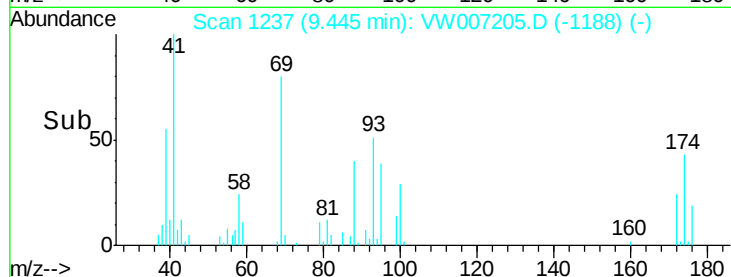
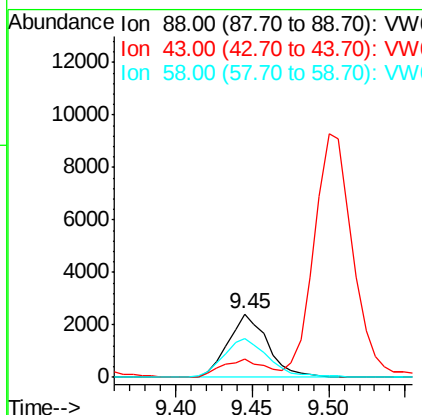
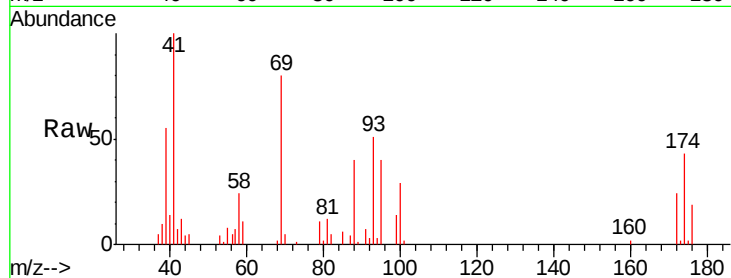
#49
1,4-Dioxane
Concen: 445.649 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	32.1	25.8	38.8
58	69.6	58.9	88.3

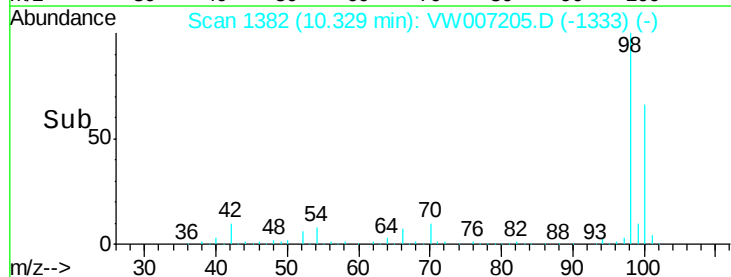
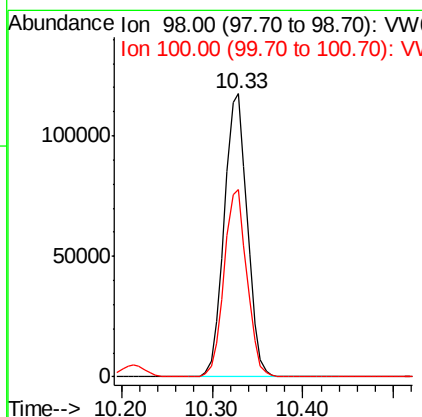
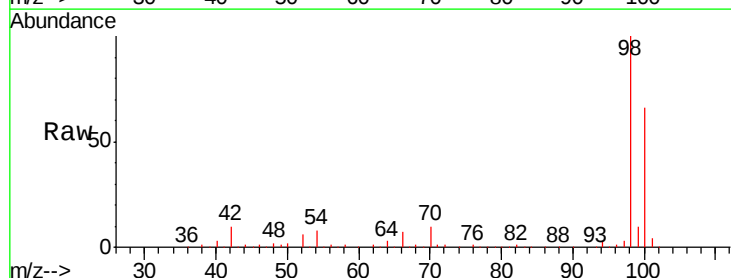
Manual Integrations
APPROVED

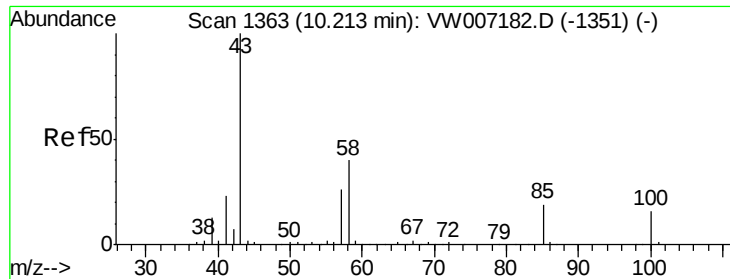
apatel
12/5/2018 12:44:24 PM



#50
Toluene-d8
Concen: 48.035 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.7	79.1





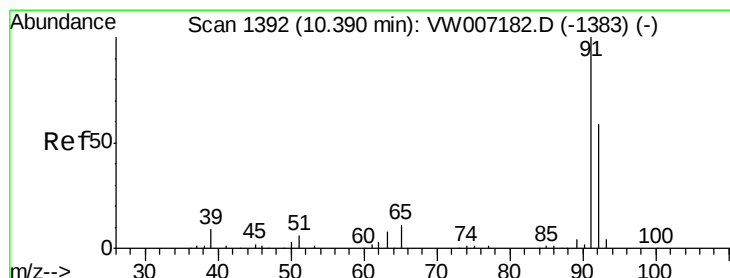
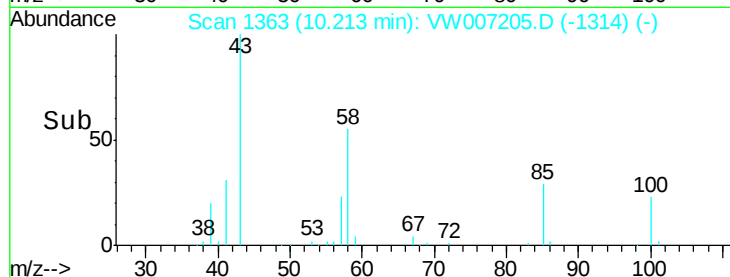
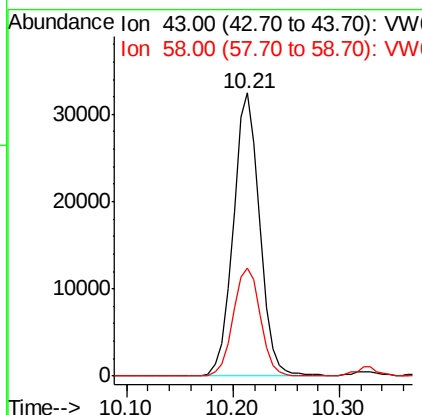
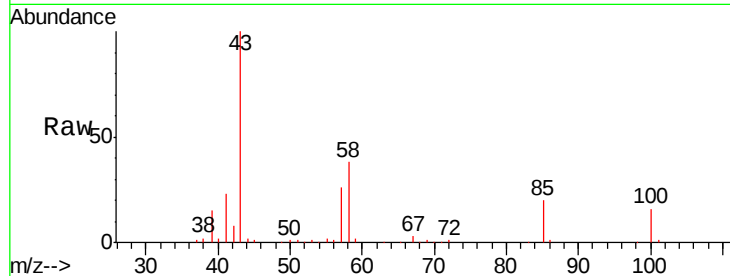
#51
4-Methyl-2-Pentanone
Concen: 97.497 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion: 43 Resp: 56516
Ion Ratio Lower Upper
43 100
58 39.3 32.3 48.5

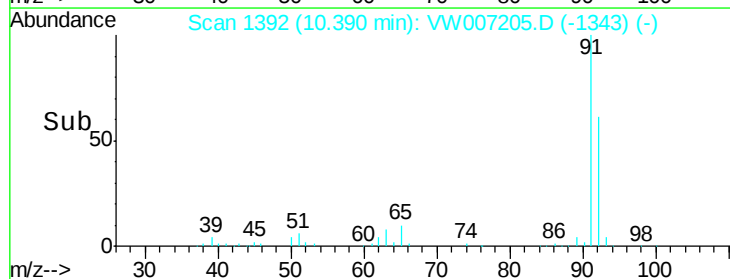
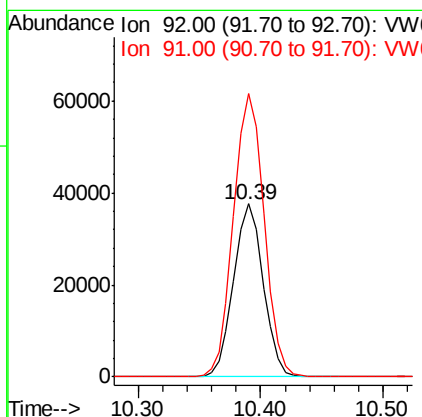
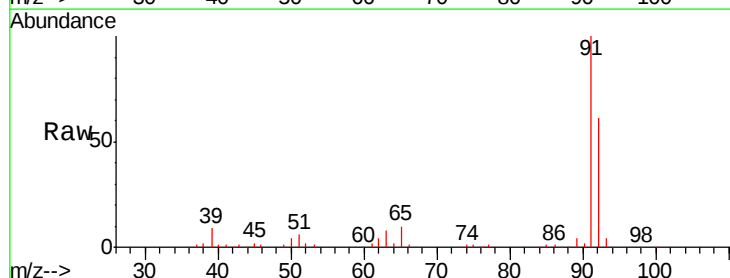
Manual Integrations
APPROVED

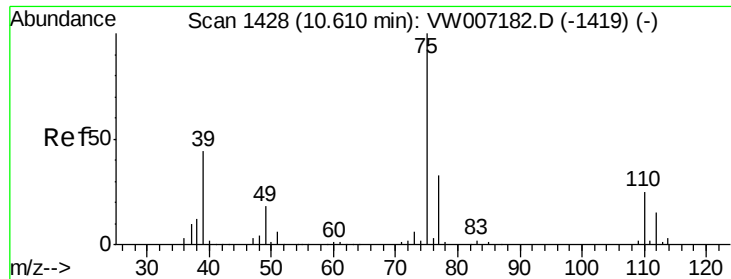
apatel
12/5/2018 12:44:24 PM



#52
Toluene
Concen: 19.759 ug/l
RT: 10.39 min Scan# 1392
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion: 92 Resp: 63103
Ion Ratio Lower Upper
92 100
91 169.7 136.0 204.0





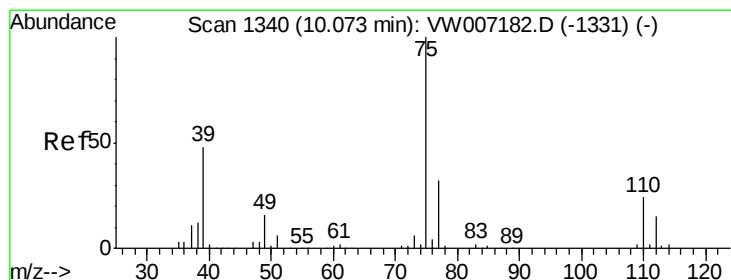
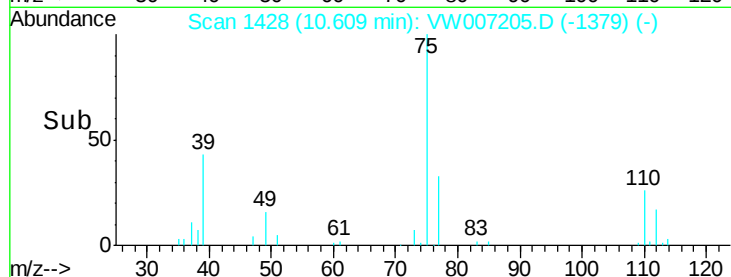
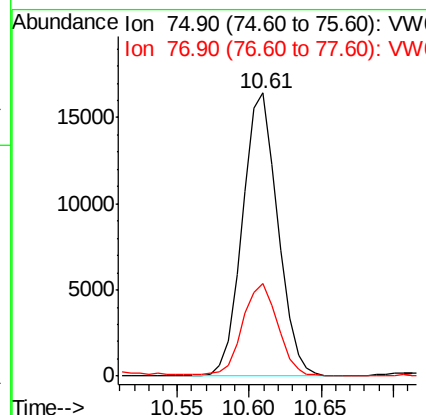
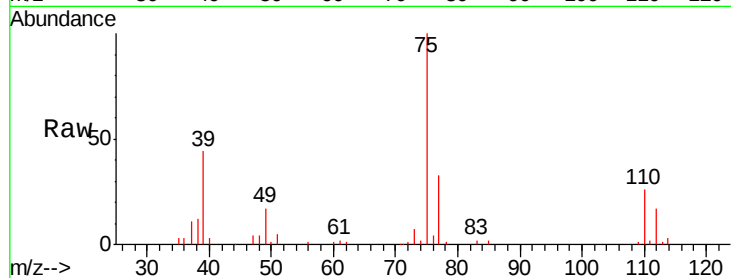
#53
 t-1,3-Dichloropropene
 Concen: 18.990 ug/l
 RT: 10.61 min Scan# 1428
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampled :
 VW1204SBS02

Tgt Ion: 75 Resp: 27881
 Ion Ratio Lower Upper
 75 100
 77 32.9 26.2 39.2

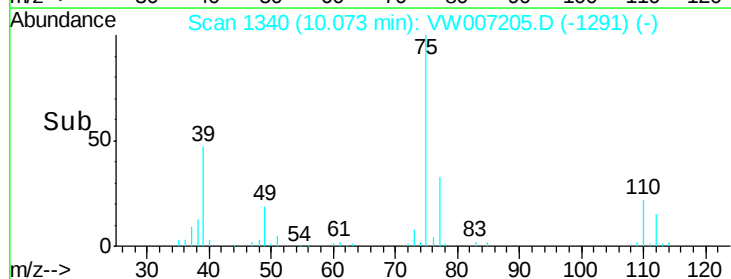
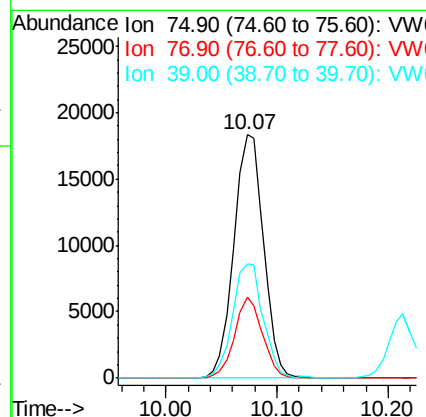
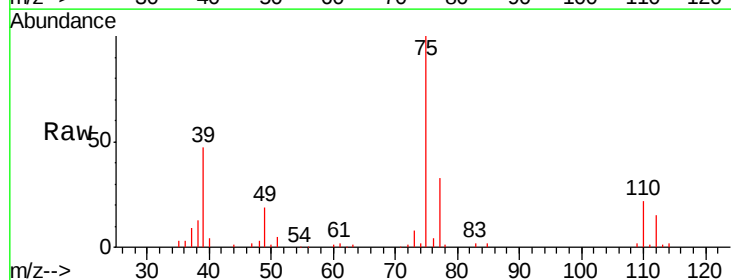
Manual Integrations
 APPROVED

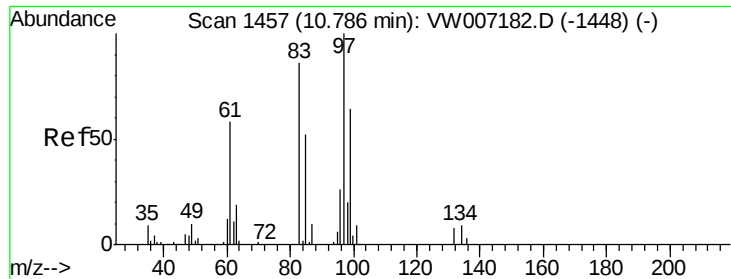
apatel
 12/5/2018 12:44:24 PM



#54
 cis-1,3-Dichloropropene
 Concen: 19.762 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion: 75 Resp: 34003
 Ion Ratio Lower Upper
 75 100
 77 33.2 26.0 39.0
 39 46.9 38.0 57.0





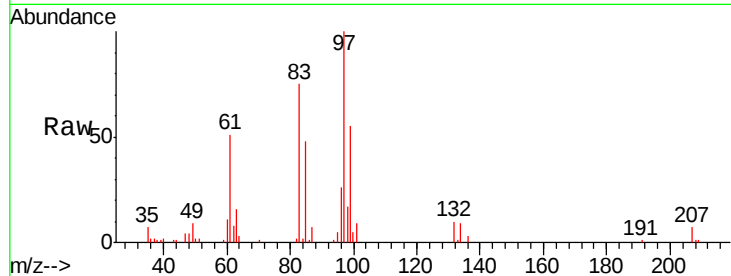
#55
 1,1,2-Trichloroethane
 Concen: 20.639 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	74.9	68.6	102.8
85	47.6	41.4	62.2
99	54.8	51.2	76.8

Manual Integrations
 APPROVED

apatel
 12/5/2018 12:44:24 PM



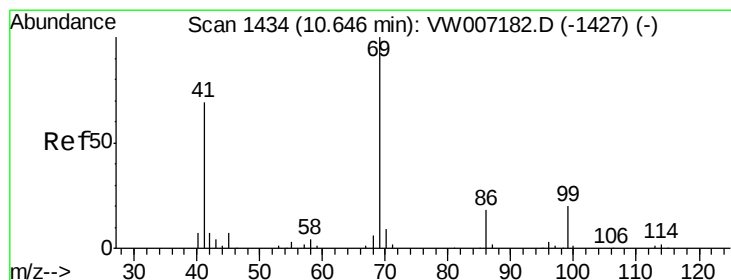
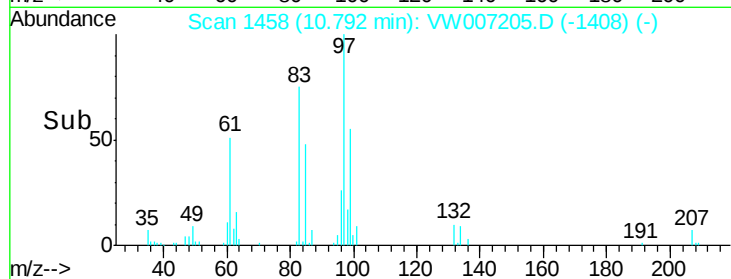
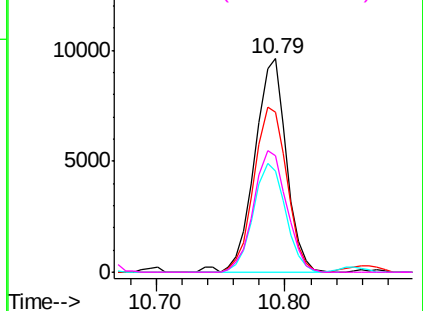
Abundance

Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



#56
 Ethyl methacrylate
 Concen: 20.144 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

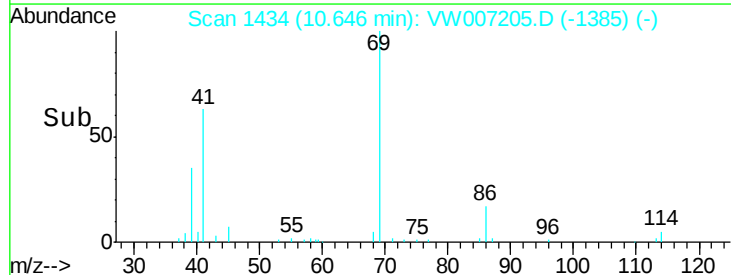
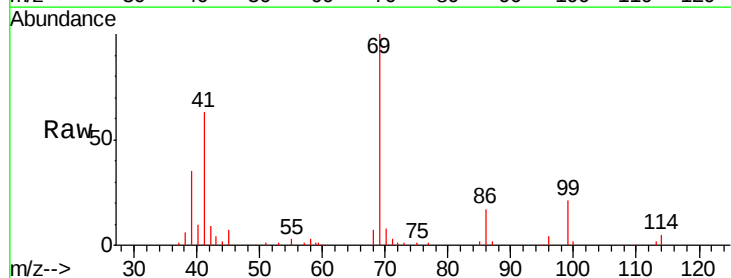
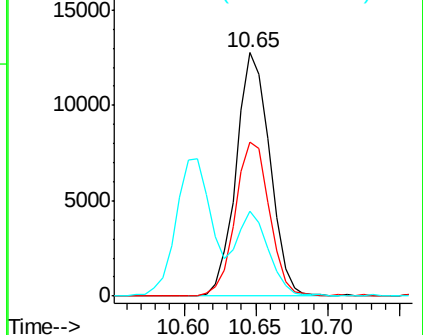
Tgt Ion	Ratio	Lower	Upper
69	100		
41	64.3	51.8	77.6
39	33.7	28.7	43.1

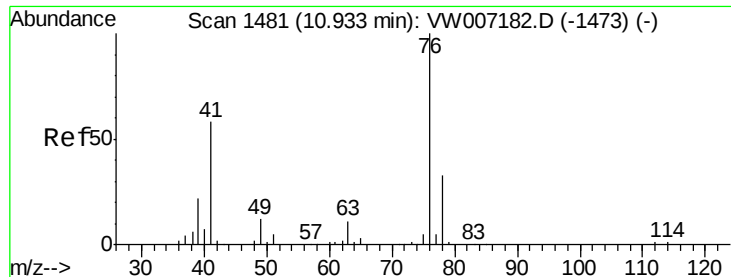
Abundance

Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW





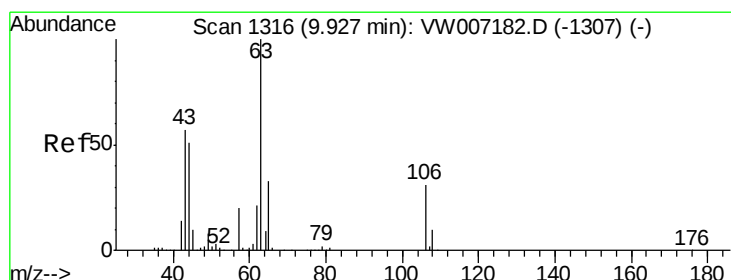
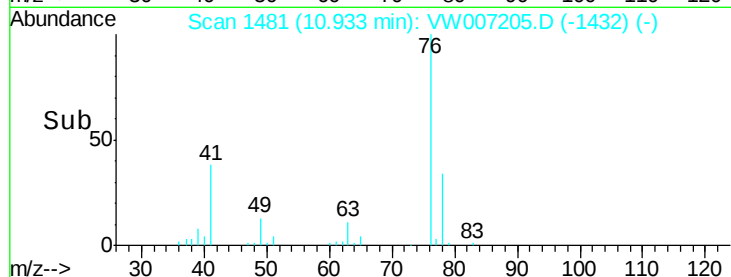
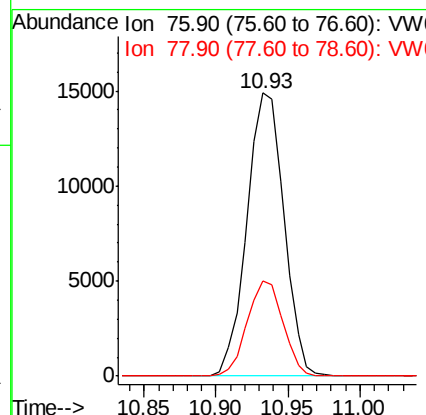
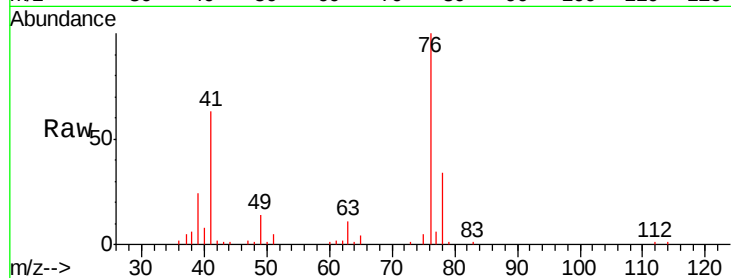
#57
 1,3-Dichloropropane
 Concen: 19.844 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion: 76 Resp: 26457
 Ion Ratio Lower Upper
 76 100
 78 32.8 26.6 40.0

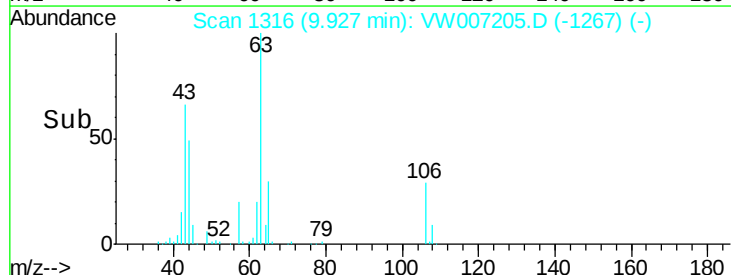
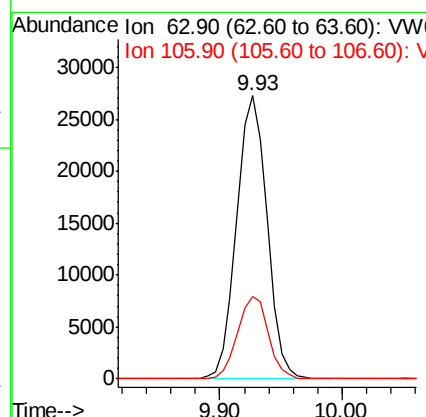
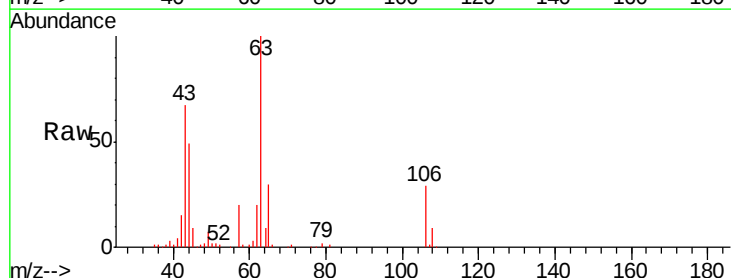
Manual Integrations
 APPROVED

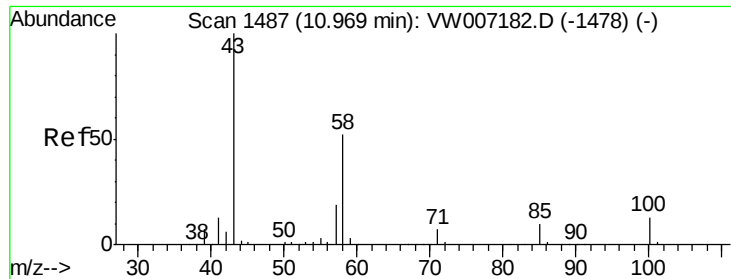
apatel
 12/5/2018 12:44:24 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 113.148 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion: 63 Resp: 46815
 Ion Ratio Lower Upper
 63 100
 106 29.4 24.1 36.1





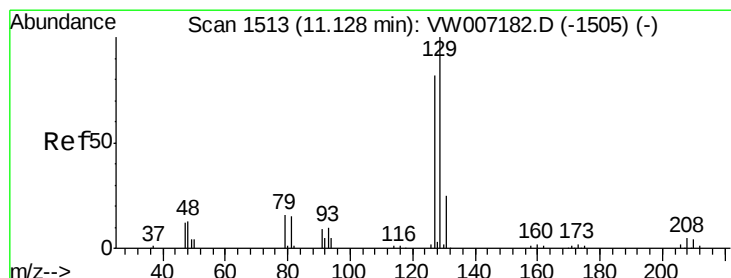
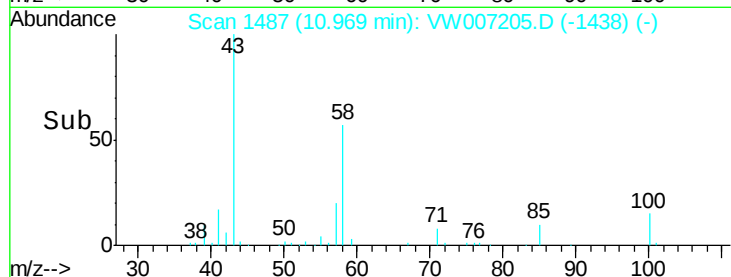
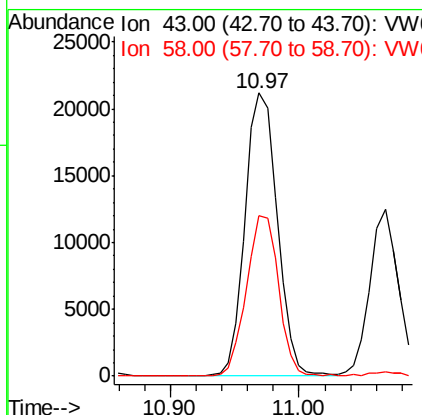
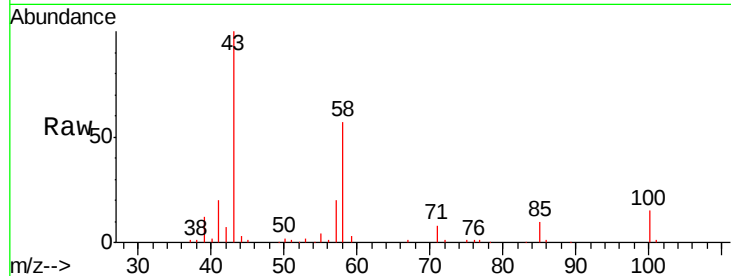
#59
2-Hexanone
Concen: 87.309 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion: 43 Resp: 36688
Ion Ratio Lower Upper
43 100
58 56.1 28.1 84.4

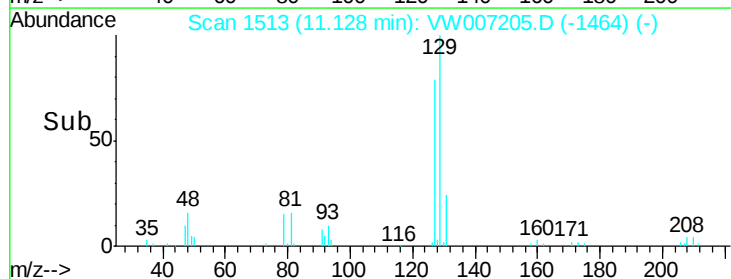
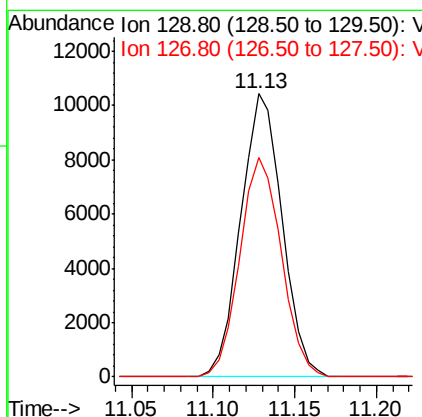
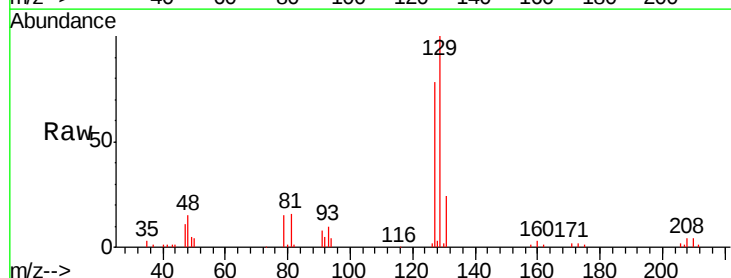
Manual Integrations
APPROVED

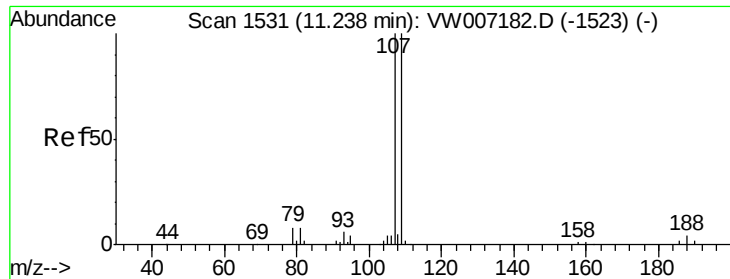
apatel
12/5/2018 12:44:24 PM



#60
Dibromochloromethane
Concen: 18.963 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion: 129 Resp: 18405
Ion Ratio Lower Upper
129 100
127 77.9 39.8 119.4





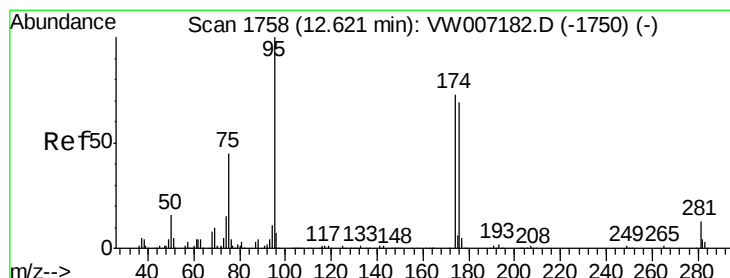
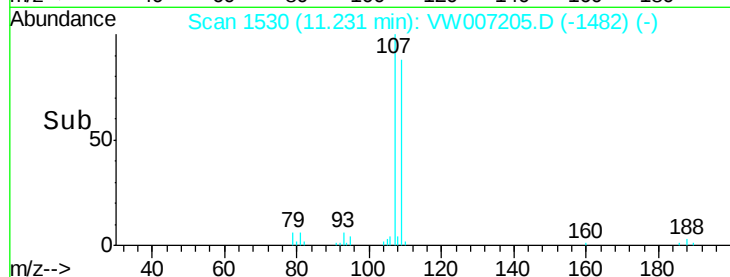
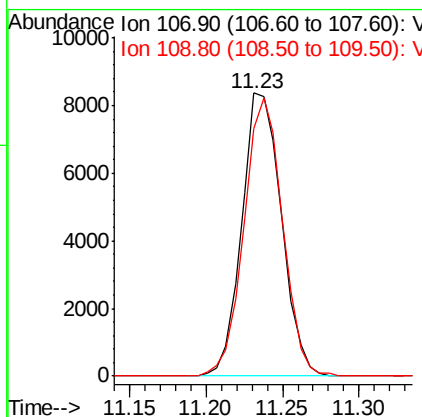
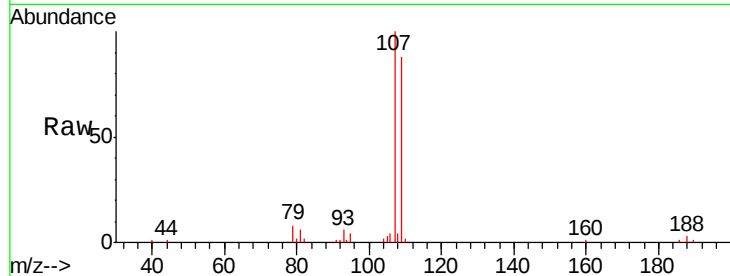
#61
1,2-Dibromoethane
Concen: 19.882 ug/l
RT: 11.23 min Scan# 1530
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.6	77.3	115.9

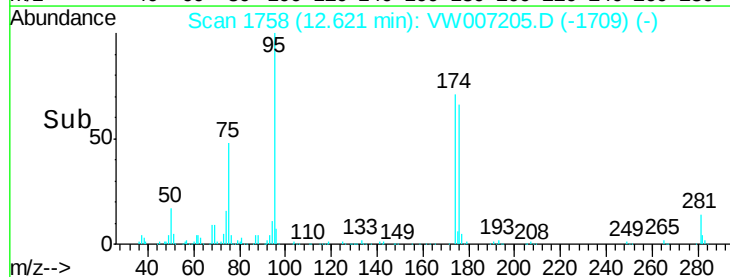
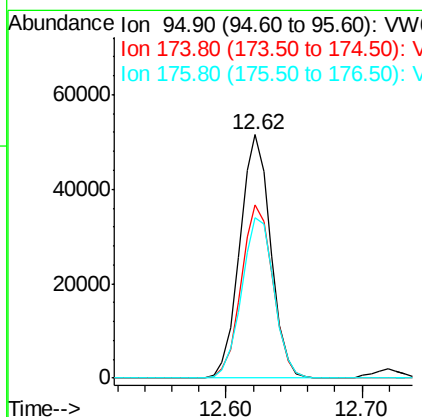
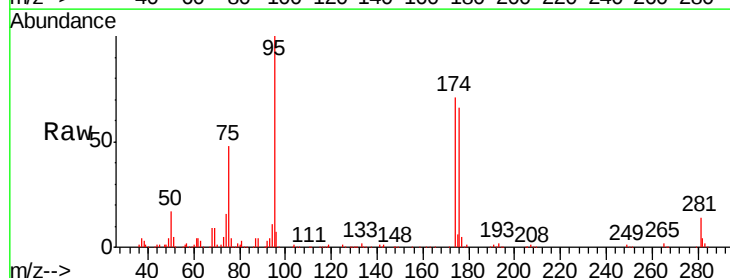
Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#62
4-Bromofluorobenzene
Concen: 49.592 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	148.0
176	69.4	0.0	139.4





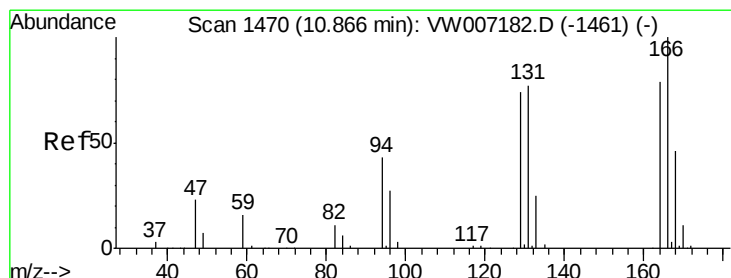
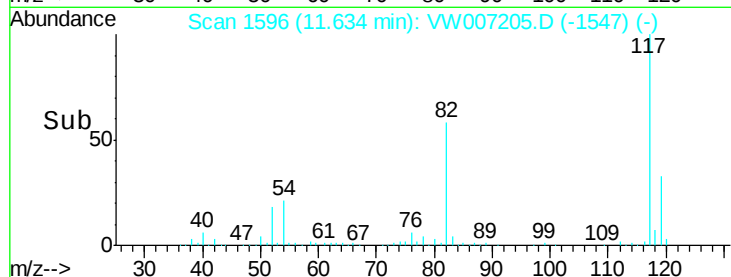
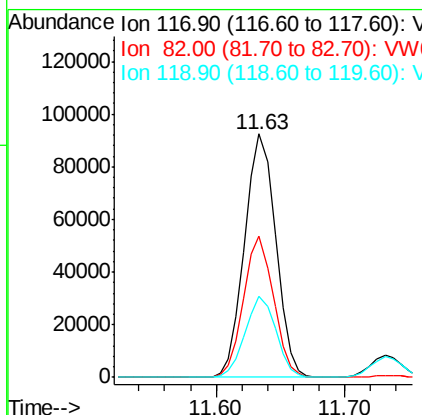
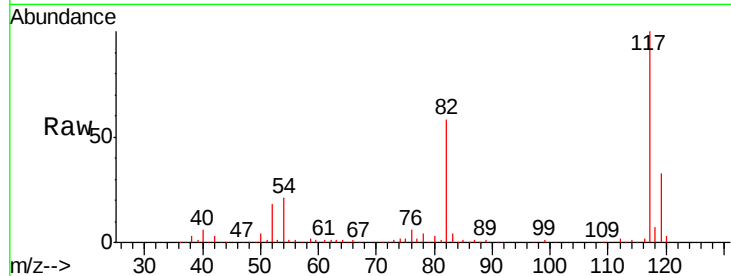
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.0	47.4	71.2
119	33.1	26.8	40.2

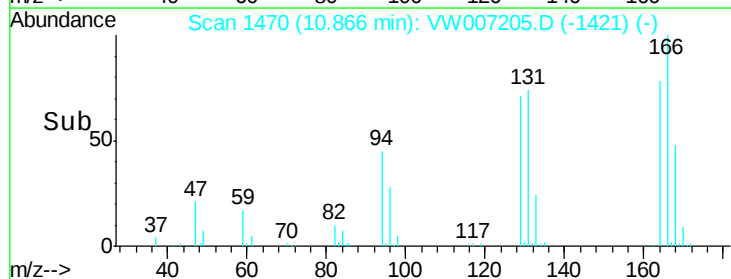
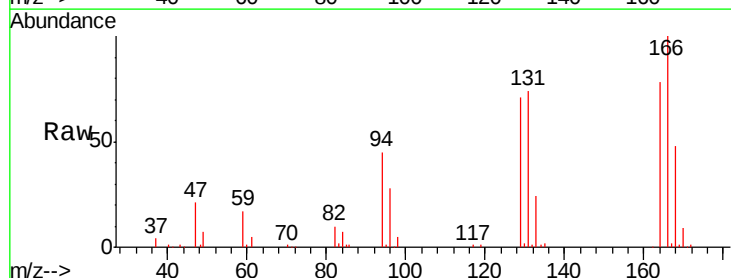
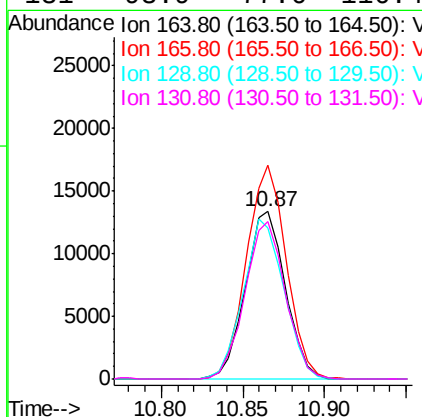
Manual Integrations
APPROVED

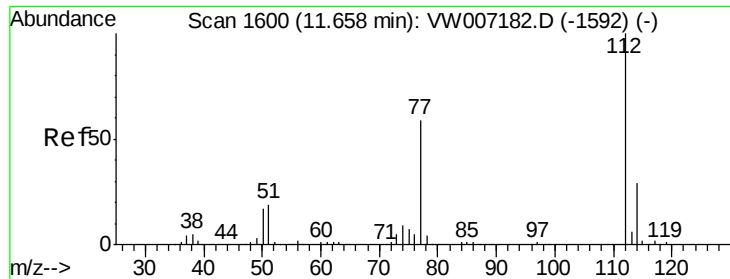
apatel
12/5/2018 12:44:24 PM



#64
Tetrachloroethene
Concen: 20.255 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	101.0	151.4
129	90.2	74.6	111.8
131	93.9	77.6	116.4





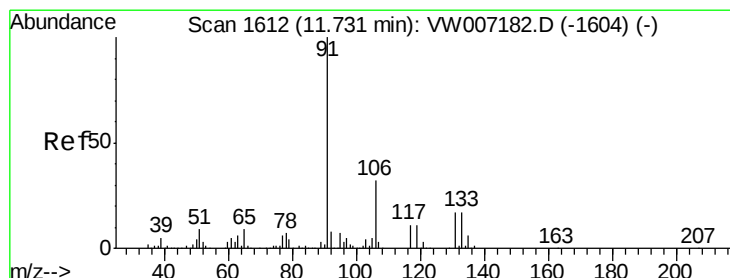
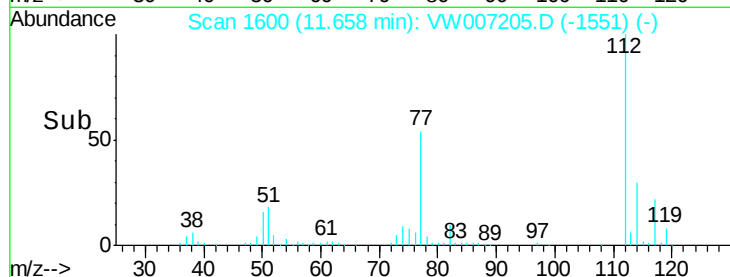
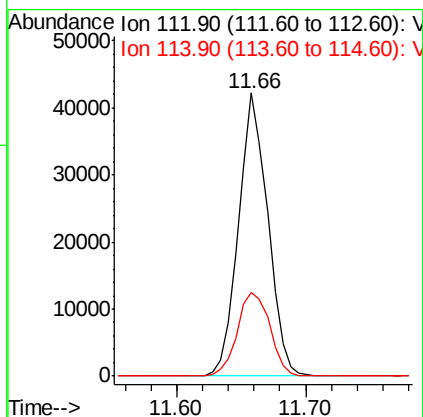
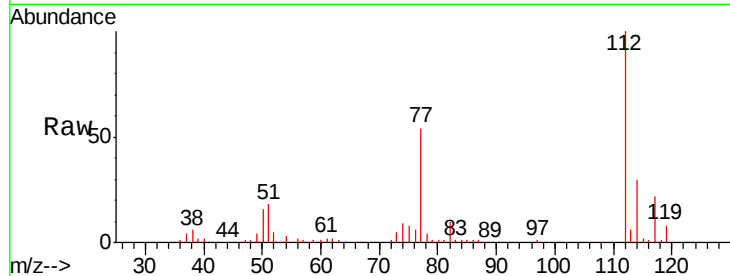
#65
Chlorobenzene
Concen: 19.212 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion:112 Resp: 66476
Ion Ratio Lower Upper
112 100
114 29.7 23.0 34.4

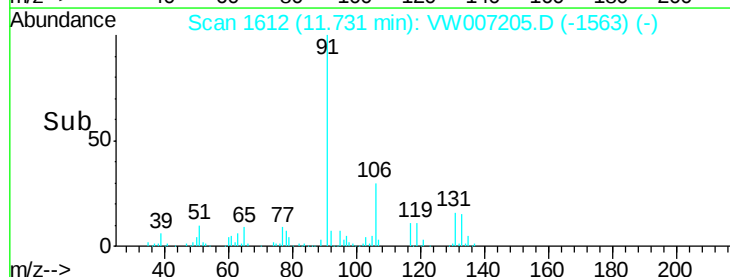
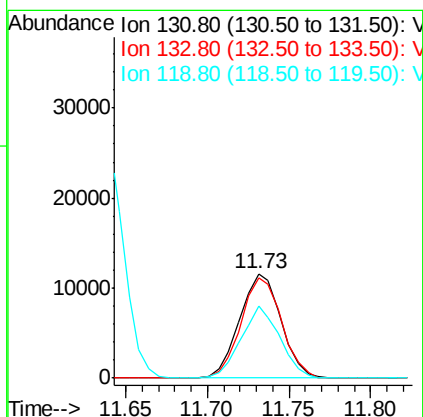
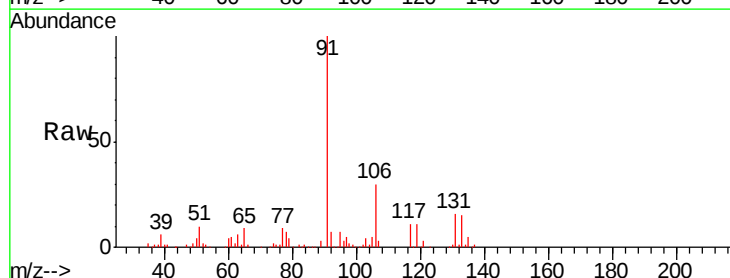
Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.070 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion:131 Resp: 20379
Ion Ratio Lower Upper
131 100
133 95.2 48.0 144.2
119 65.0 32.8 98.4





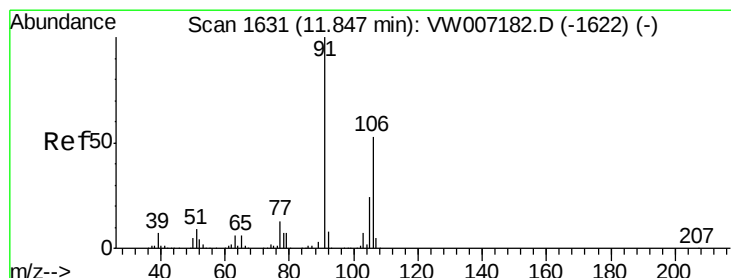
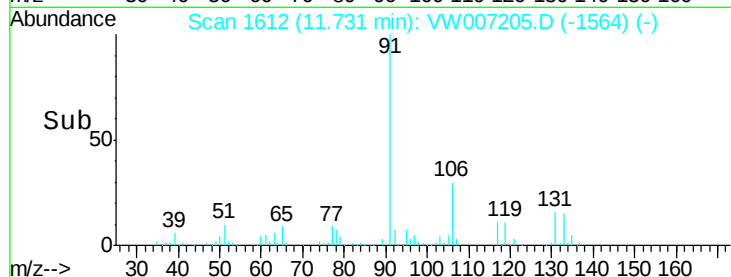
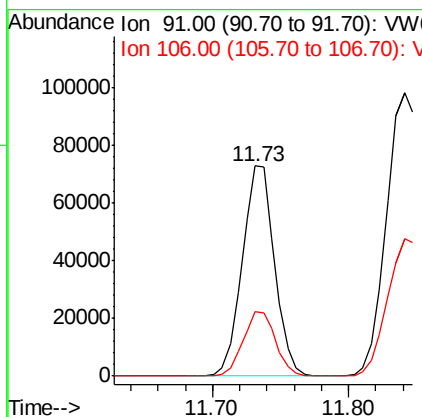
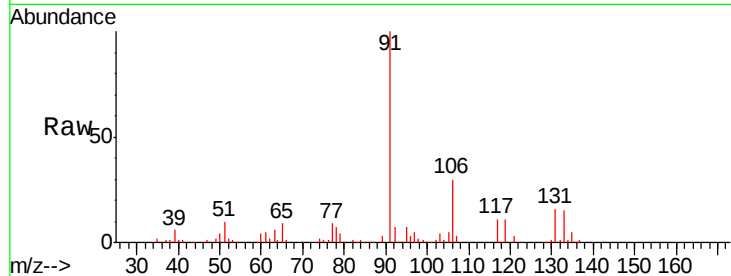
#67
Ethyl Benzene
Concen: 19.176 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion: 91 Resp: 120937
Ion Ratio Lower Upper
91 100
106 30.4 26.0 39.0

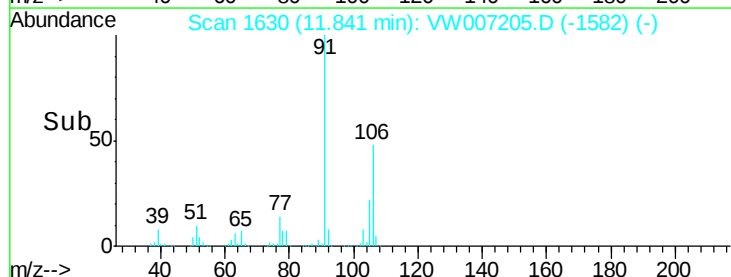
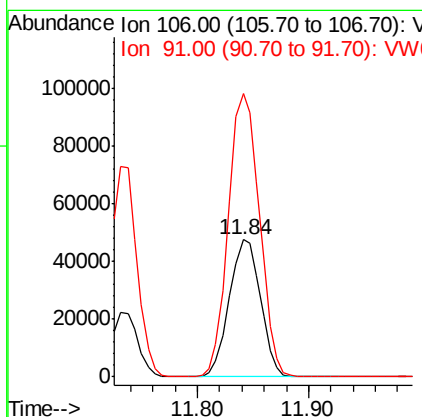
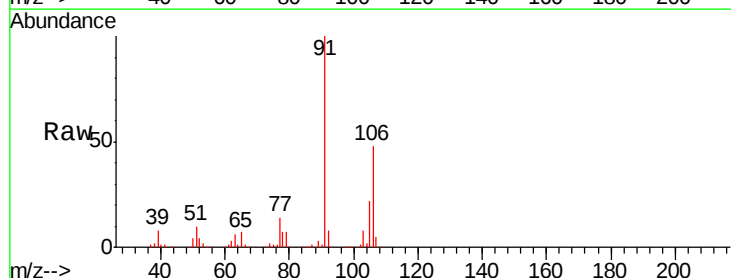
Manual Integrations
APPROVED

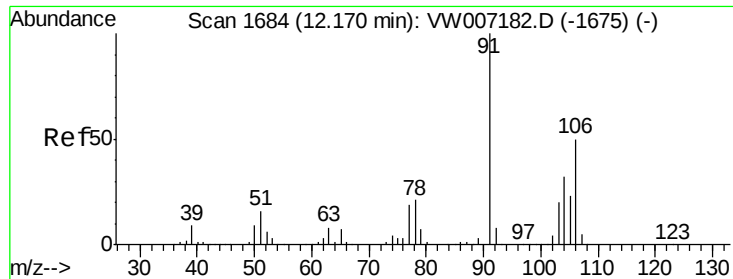
apatel
12/5/2018 12:44:24 PM



#68
m/p-Xylenes
Concen: 37.365 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion: 106 Resp: 92445
Ion Ratio Lower Upper
106 100
91 205.6 160.2 240.4





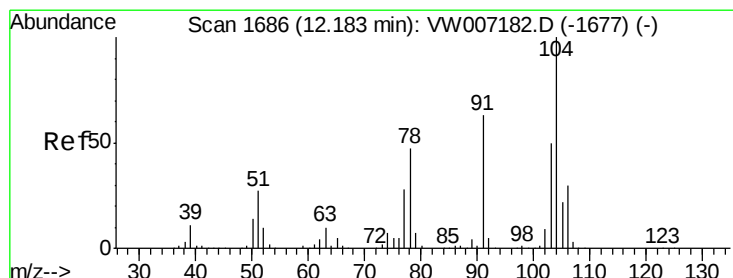
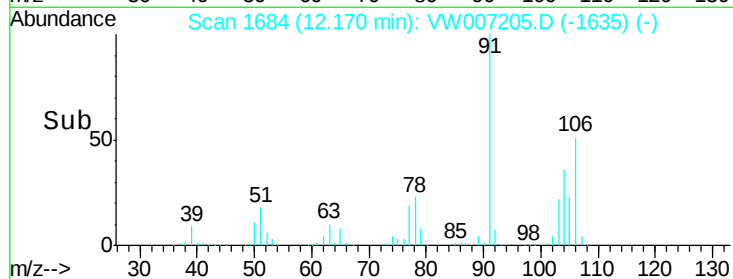
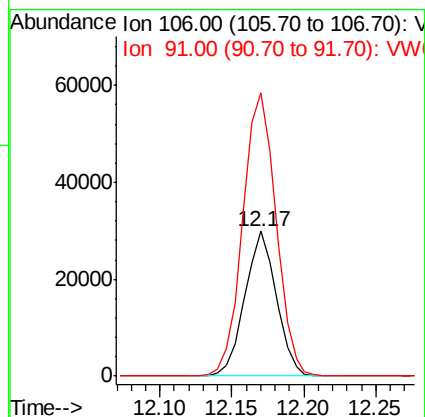
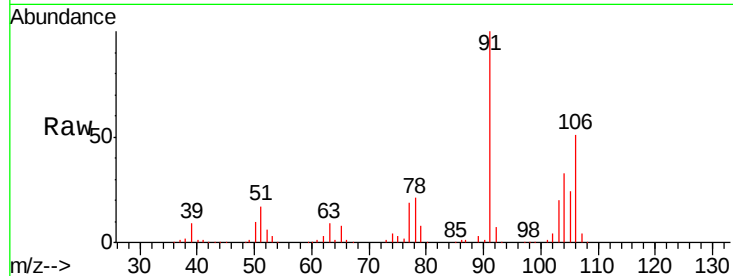
#69
o-Xylene
Concen: 19.569 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion:106 Resp: 45234
Ion Ratio Lower Upper
106 100
91 206.8 104.9 314.7

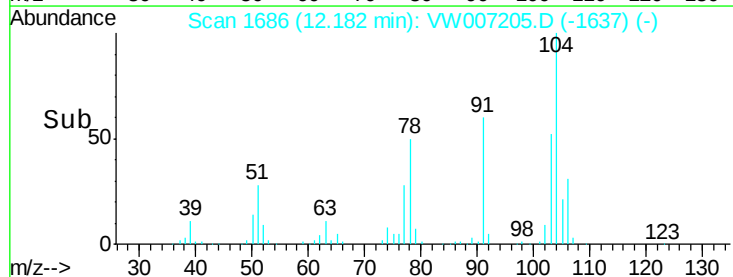
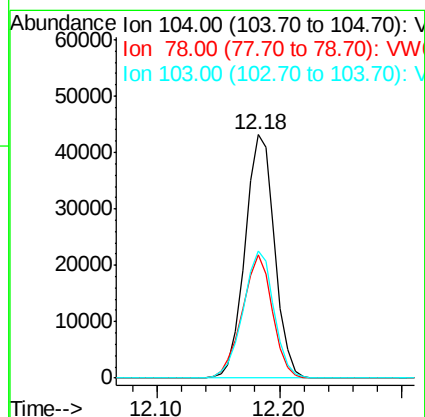
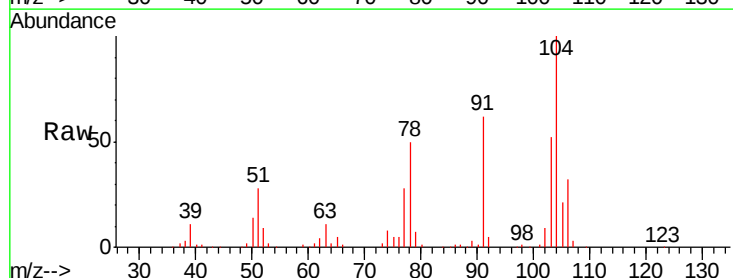
Manual Integrations
APPROVED

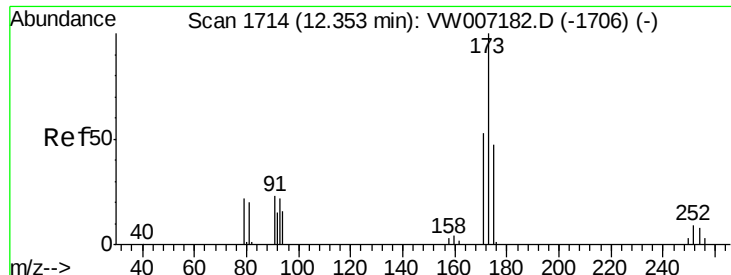
apatel
12/5/2018 12:44:24 PM



#70
Styrene
Concen: 19.061 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion:104 Resp: 72126
Ion Ratio Lower Upper
104 100
78 51.9 40.6 60.8
103 54.6 43.0 64.4





#71

Bromoform

Concen: 19.594 ug/l

RT: 12.35 min Scan# 1714

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

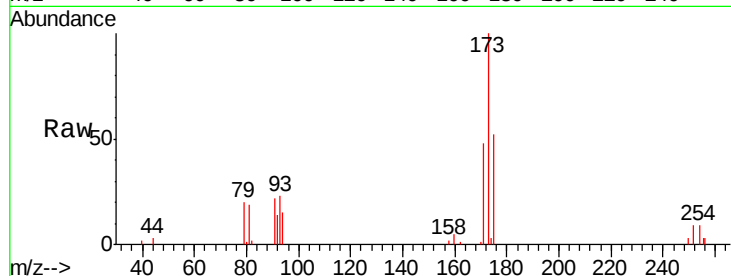
ClientSampleId :

VW1204SBS02

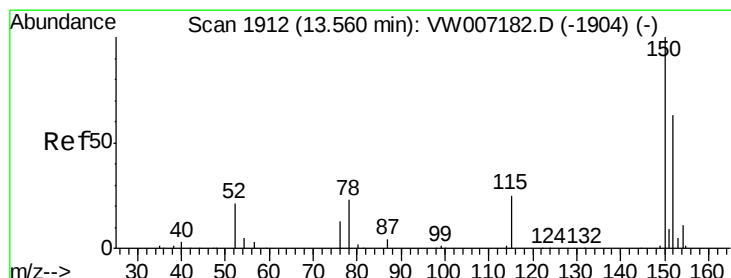
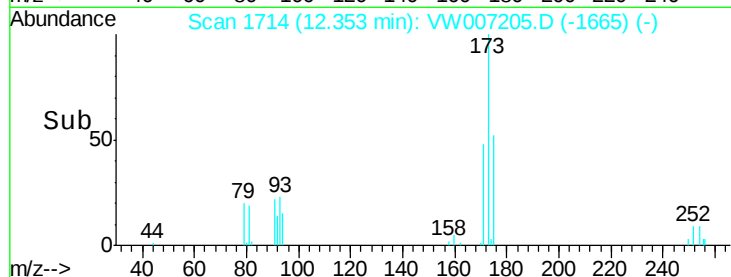
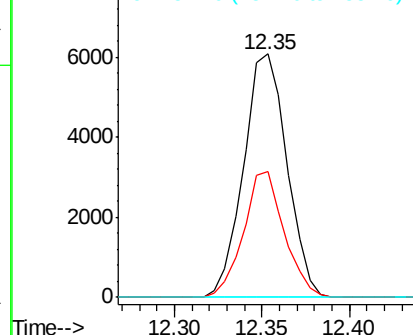
Tgt Ion:	173	Resp:	10482
Ion Ratio	Lower	Upper	
173	100		
175	48.4	24.0	72.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

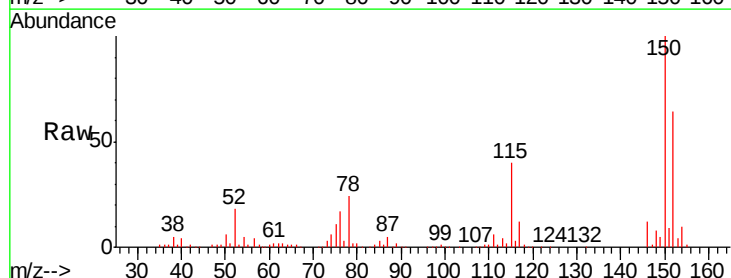
RT: 13.57 min Scan# 1913

Delta R.T. 0.01 min

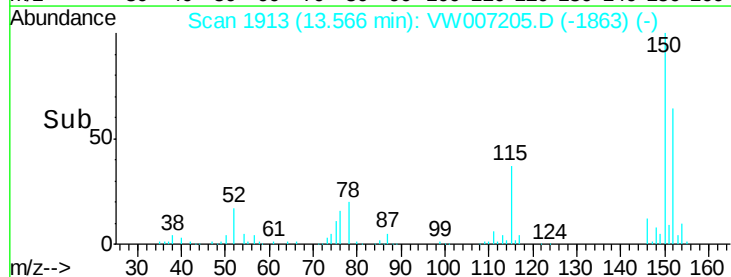
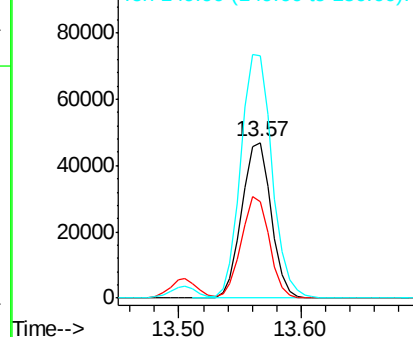
Lab File: VW007205.D

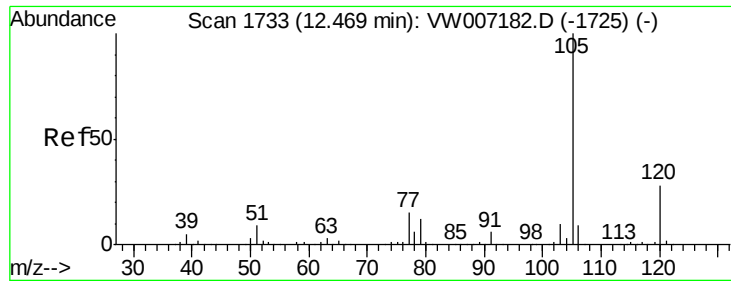
Acq: 05 Dec 2018 01:01

Tgt Ion:	152	Resp:	77798
Ion Ratio	Lower	Upper	
152	100		
115	62.6	31.3	93.8
150	167.4	0.0	358.0



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





#73

Isopropylbenzene

Concen: 18.893 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion: 105 Resp: 119547

Ion Ratio Lower Upper

105 100

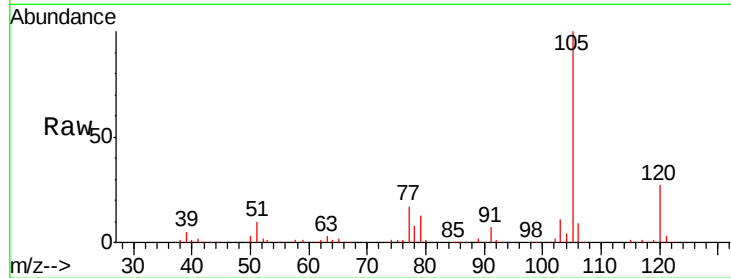
120 26.3 13.2 39.6

Manual Integrations

APPROVED

apatel

12/5/2018 12:44:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

80000

60000

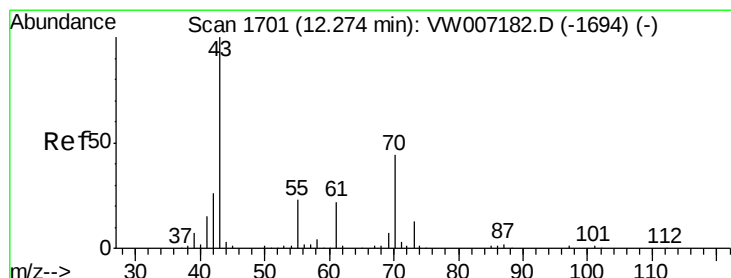
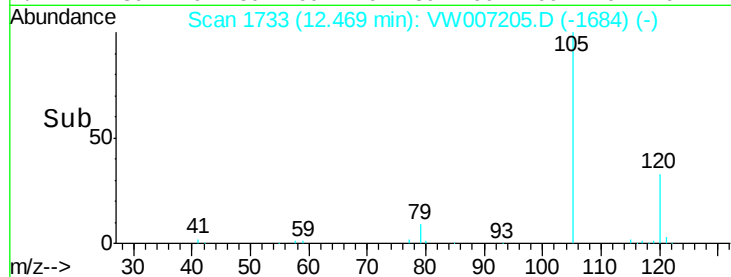
40000

20000

0

12.40 12.47 12.50

Time-->



#74

N-ethyl acetate

Concen: 18.827 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Tgt Ion: 43 Resp: 21121

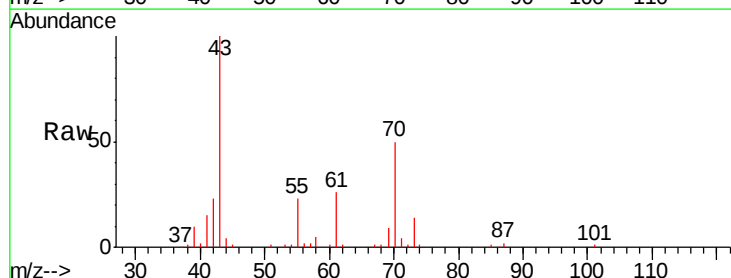
Ion Ratio Lower Upper

43 100

70 46.6 34.0 51.0

55 24.4 19.0 28.6

61 24.7 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

20000

15000

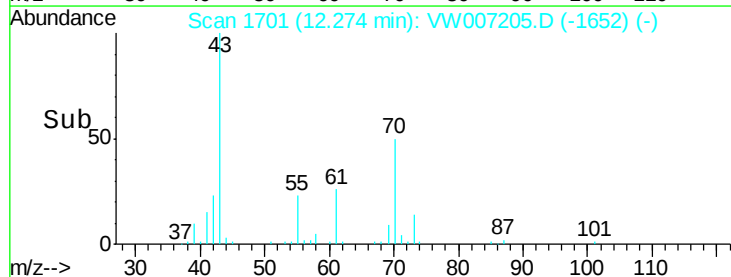
10000

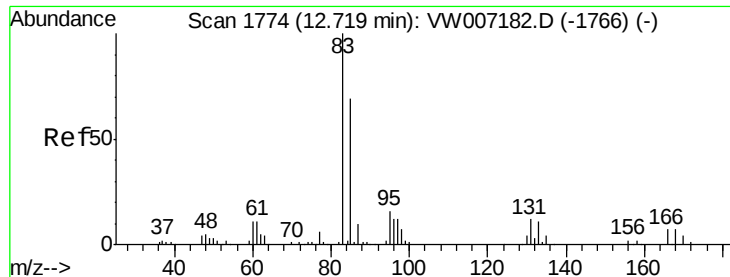
5000

0

12.20 12.25 12.30 12.35

Time-->





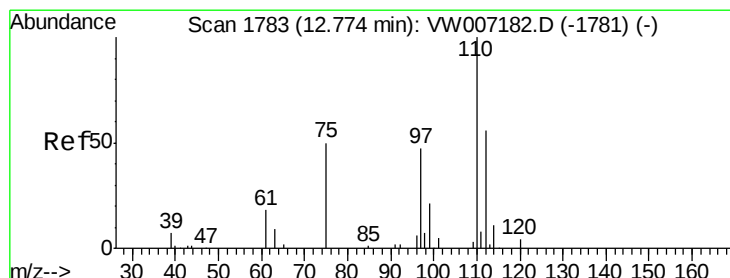
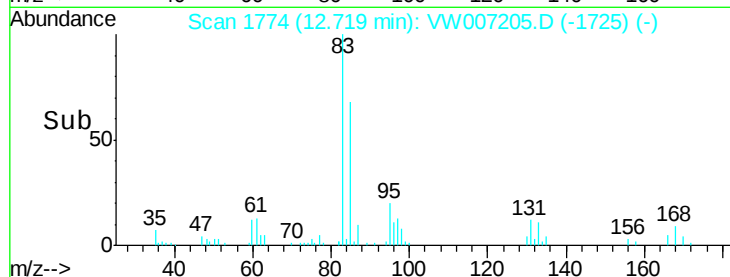
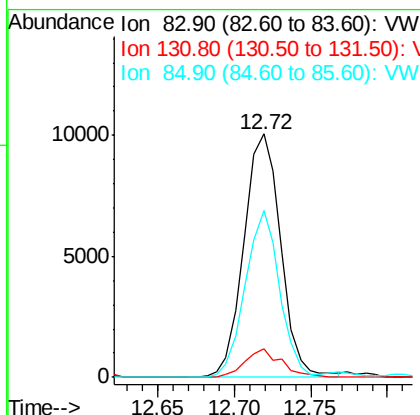
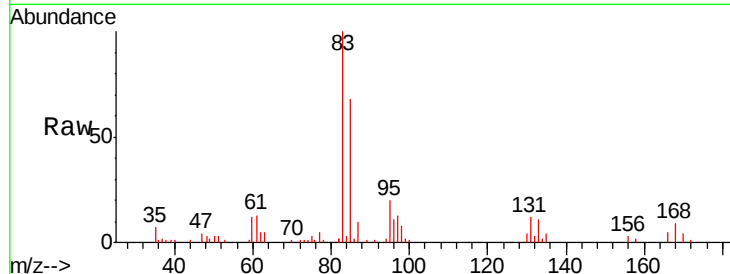
#75
 1,1,2,2-Tetrachloroethane
 Concen: 20.608 ug/l
 RT: 12.72 min Scan# 1774
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	16935		
131	11.5	6.0	18.1	
85	63.4	33.0	99.0	

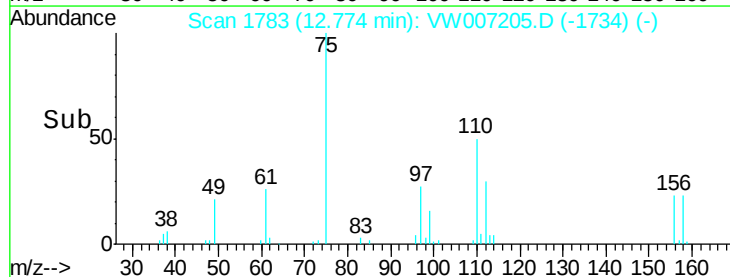
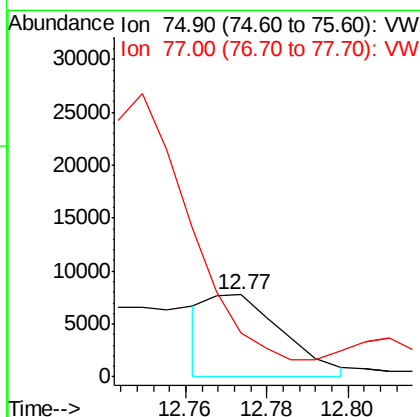
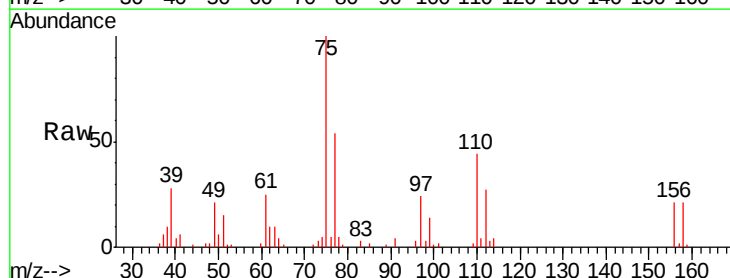
Manual Integrations
 APPROVED

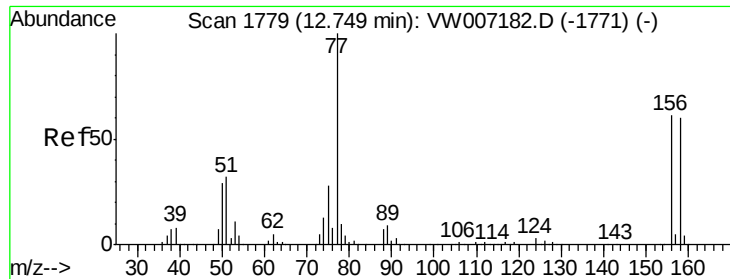
apatel
 12/5/2018 12:44:24 PM



#76
 1,2,3-Trichloropropane
 Concen: 8.557 ug/l m
 RT: 12.77 min Scan# 1783
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	10004		
77	0.0	0.0	0.0	





#77

Bromobenzene

Concen: 19.465 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

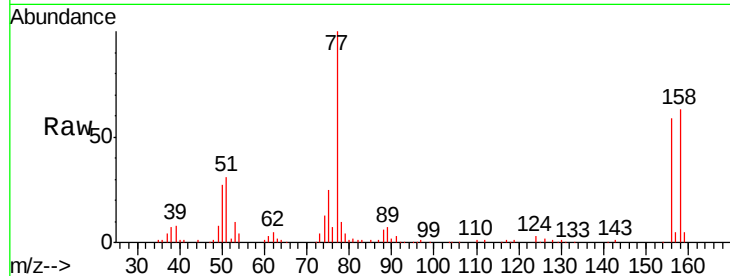
ClientSampleId :

VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
156	100		
77	178.2	92.0	276.1
158	100.0	49.0	147.0

Manual Integrations
APPROVED

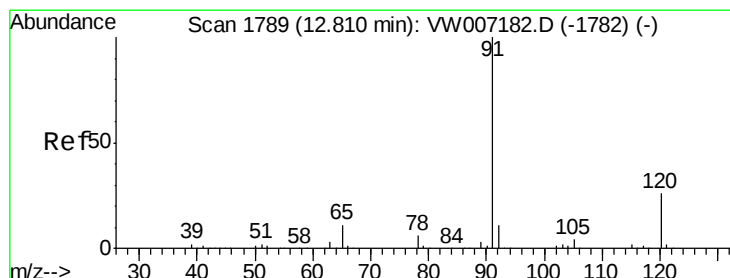
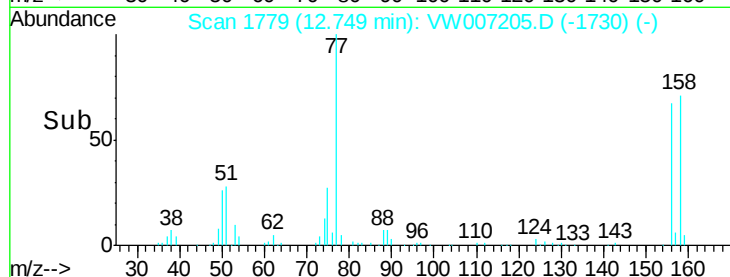
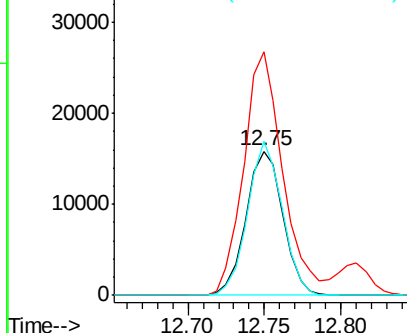
apatel
12/5/2018 12:44:24 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.360 ug/l

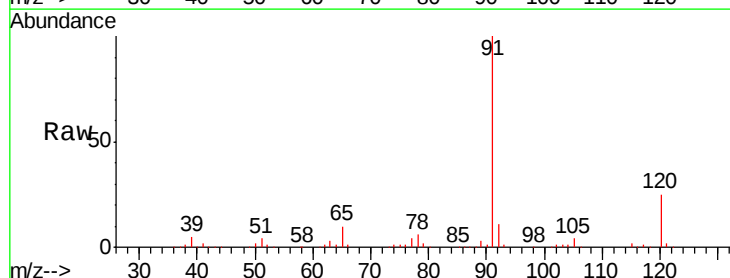
RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW007205.D

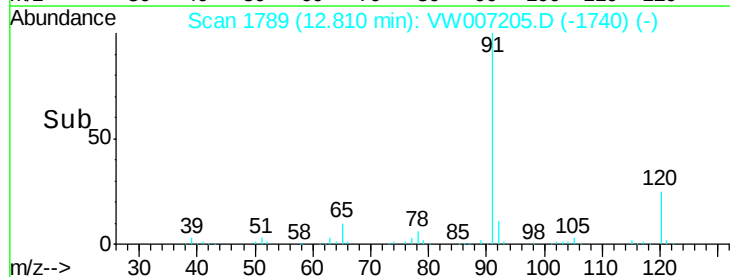
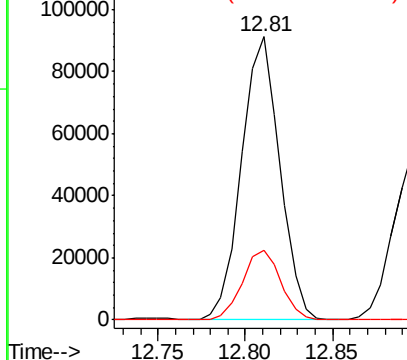
Acq: 05 Dec 2018 01:01

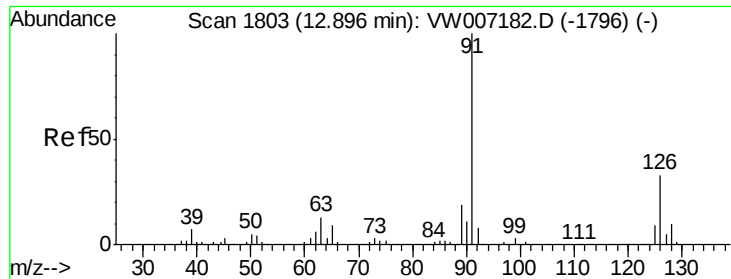
Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.5	37.5



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





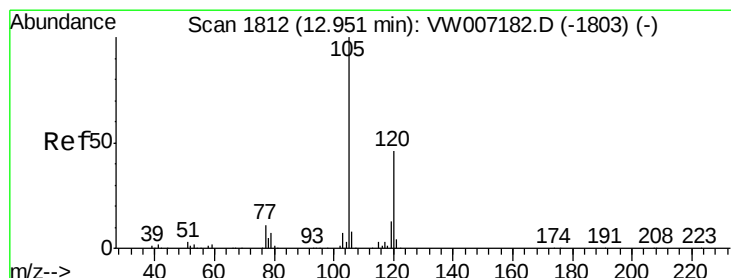
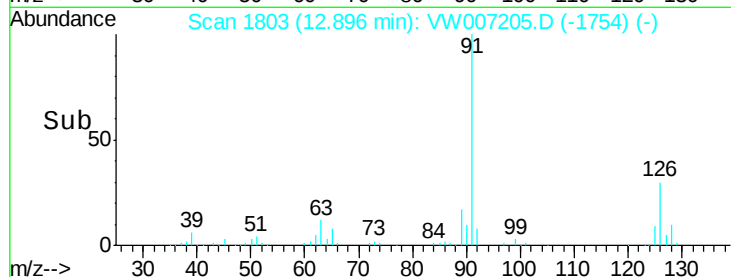
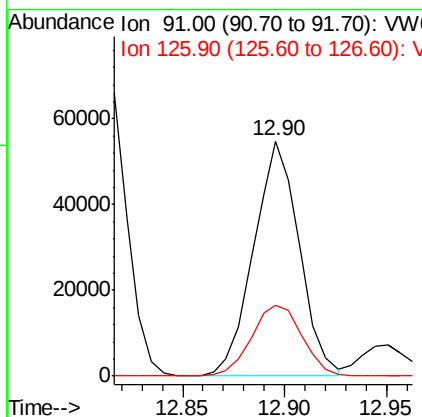
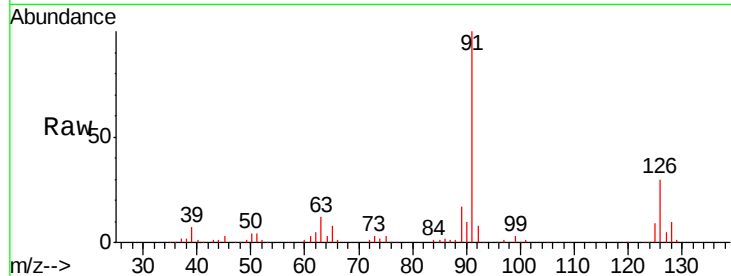
#79
 2-Chlorotoluene
 Concen: 19.937 ug/l
 RT: 12.90 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion: 91 Resp: 84874
 Ion Ratio Lower Upper
 91 100
 126 33.5 16.7 50.1

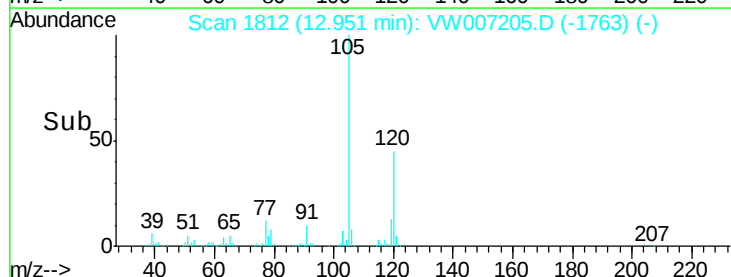
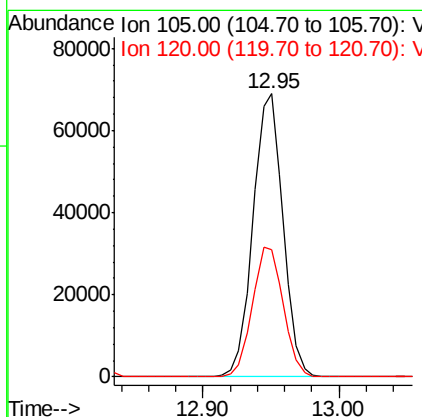
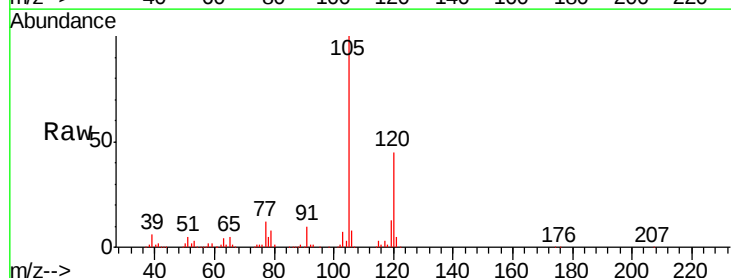
Manual Integrations
 APPROVED

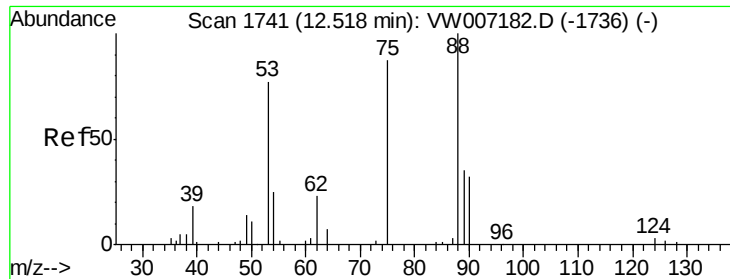
apatel
 12/5/2018 12:44:24 PM



#80
 1,3,5-Trimethylbenzene
 Concen: 19.688 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion: 105 Resp: 106572
 Ion Ratio Lower Upper
 105 100
 120 47.5 23.8 71.5





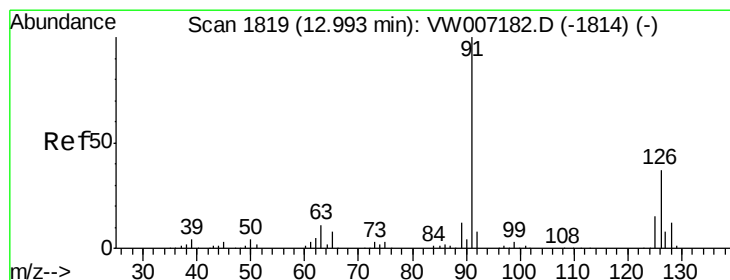
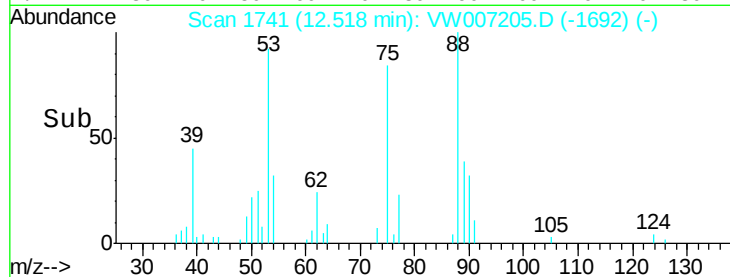
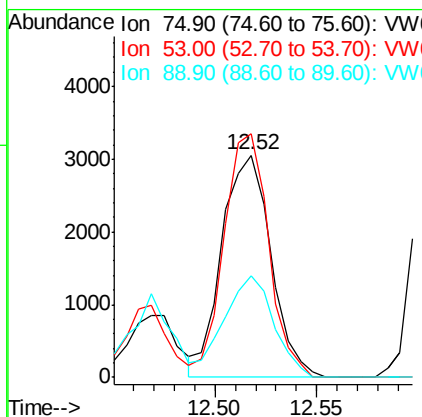
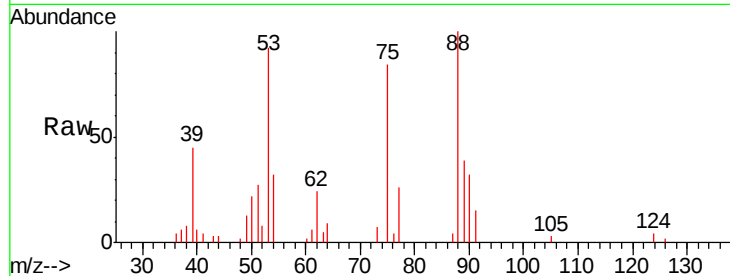
#81
trans-1,4-Dichloro-2-butene
Concen: 18.226 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
75	100		
53	99.8	72.8	109.2
89	46.7	36.4	54.6

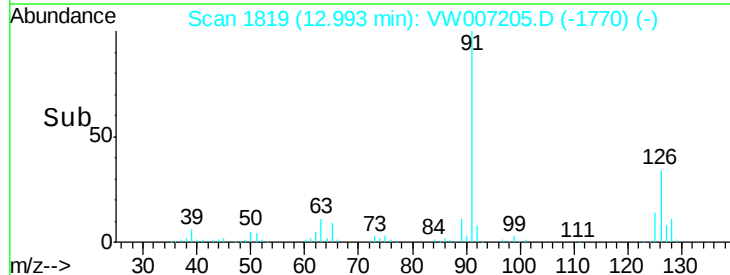
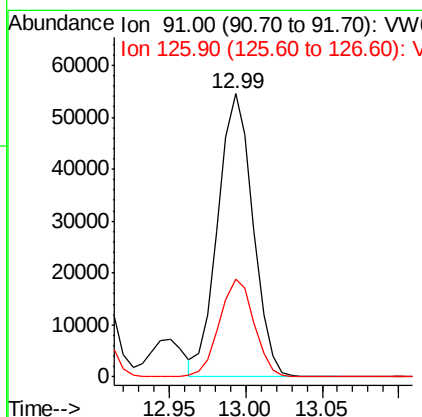
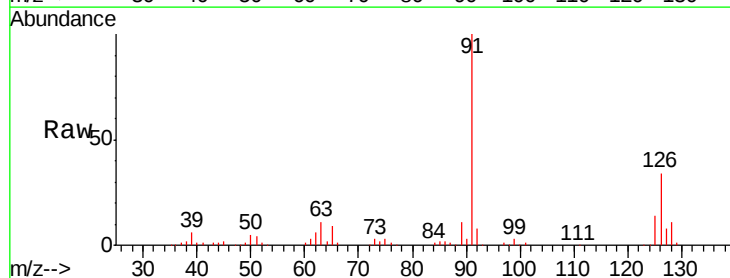
Manual Integrations
APPROVED

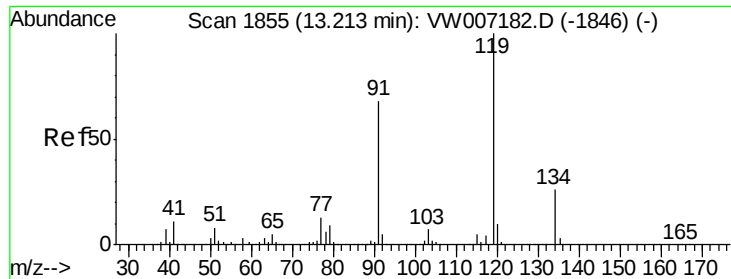
apatel
12/5/2018 12:44:24 PM



#82
4-Chlorotoluene
Concen: 19.139 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.4	52.3





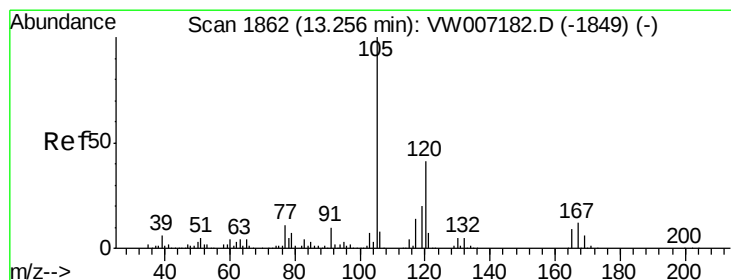
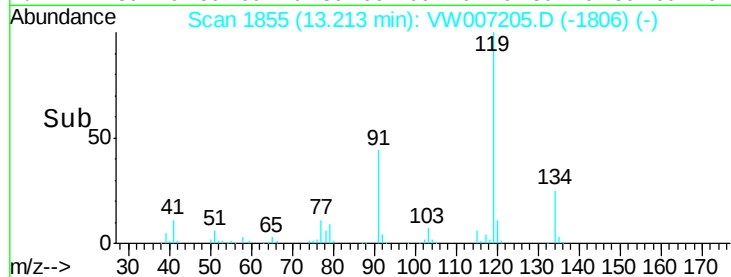
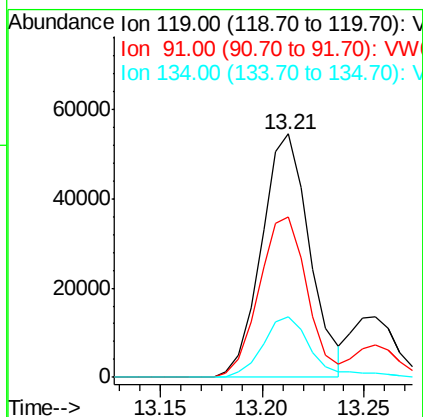
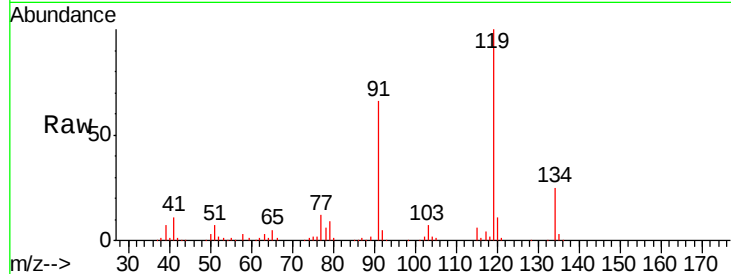
#83
 tert-Butylbenzene
 Concen: 18.928 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
119	100		
91	65.8	34.0	101.8
134	25.6	13.2	39.5

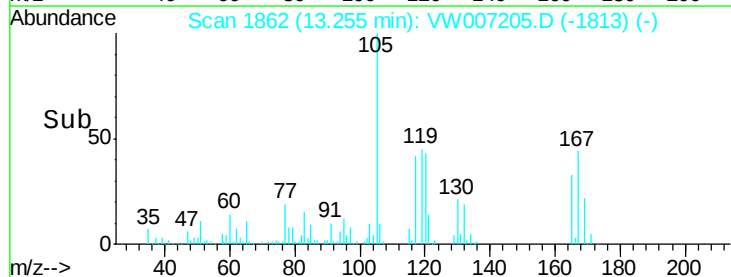
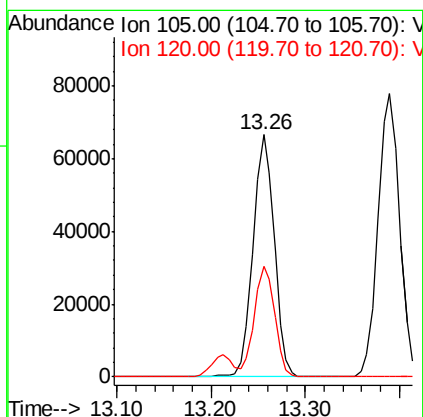
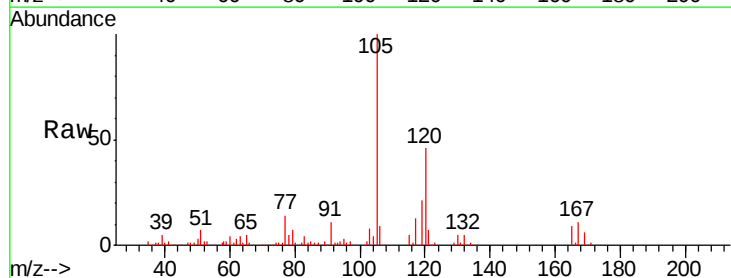
Manual Integrations
 APPROVED

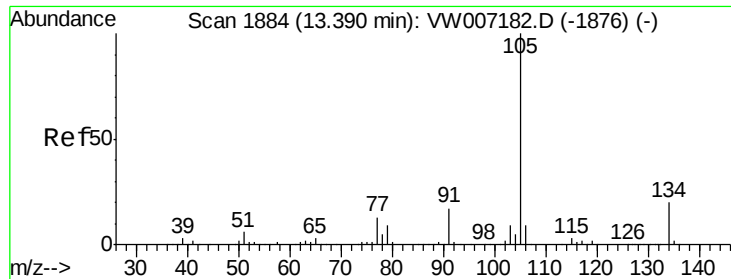
apatel
 12/5/2018 12:44:24 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 18.936 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.9	21.1	63.3





#85

sec-Butylbenzene

Concen: 18.286 ug/l

RT: 13.39 min Scan# 1884

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

Instrument :

MSVOA_W

ClientSampleId :

VW1204SBS02

Tgt Ion:105 Resp: 123493

Ion Ratio Lower Upper

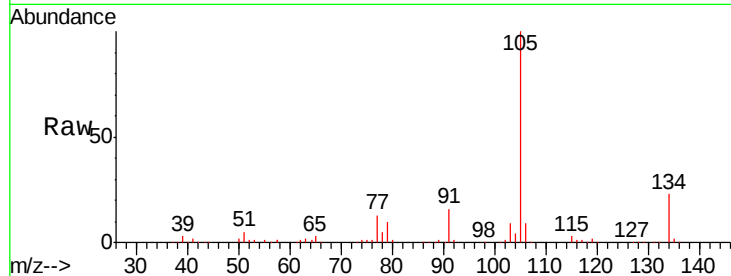
105 100

134 20.9 10.3 30.8

Manual Integrations
APPROVED

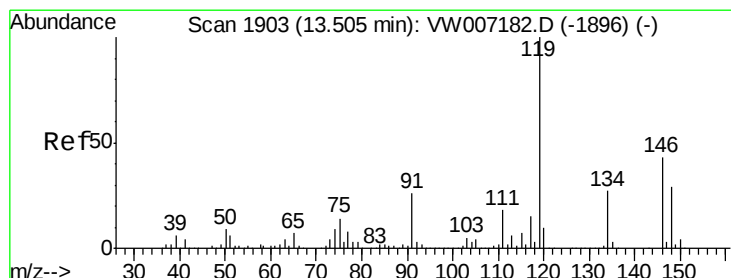
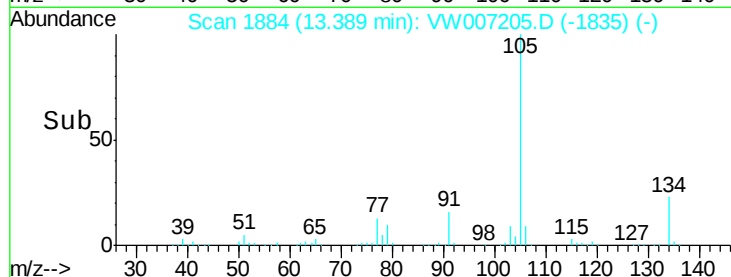
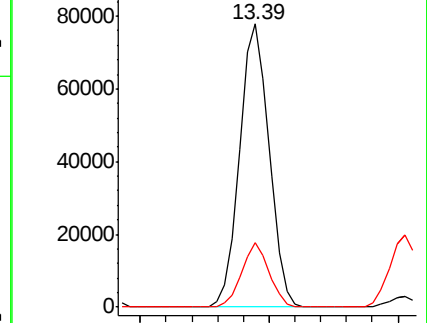
apatel

12/5/2018 12:44:24 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 18.519 ug/l

RT: 13.51 min Scan# 1903

Delta R.T. -0.00 min

Lab File: VW007205.D

Acq: 05 Dec 2018 01:01

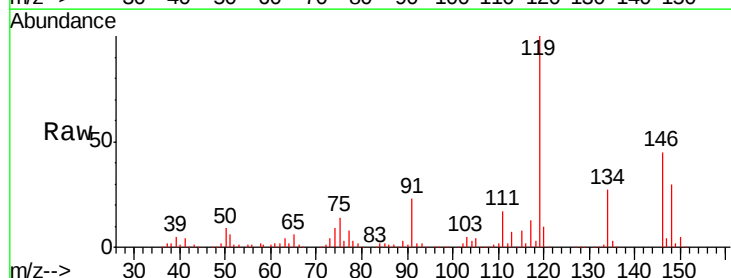
Tgt Ion:119 Resp: 111330

Ion Ratio Lower Upper

119 100

134 26.6 13.2 39.6

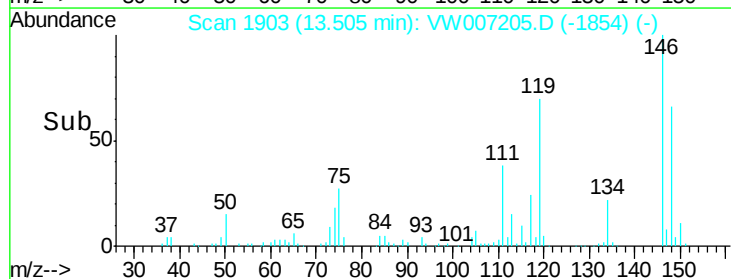
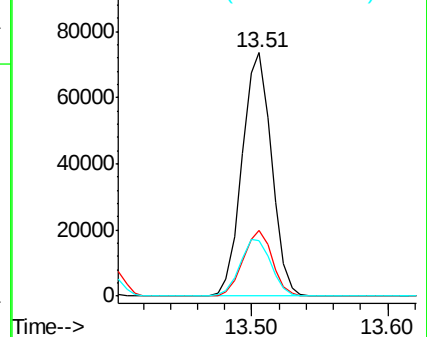
91 24.4 12.4 37.2

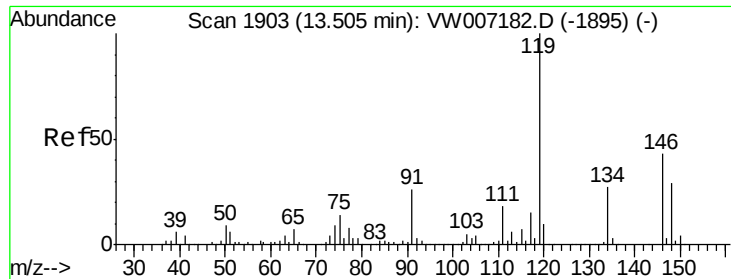


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





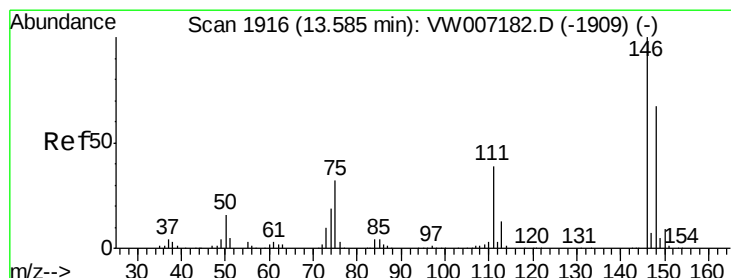
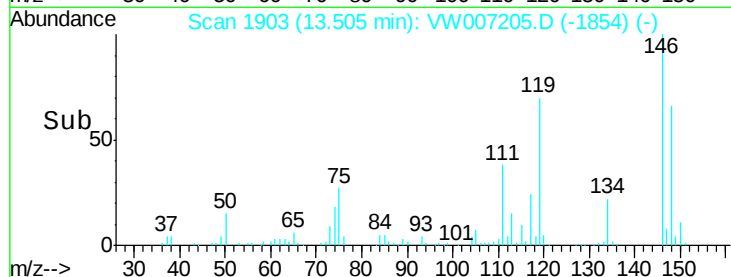
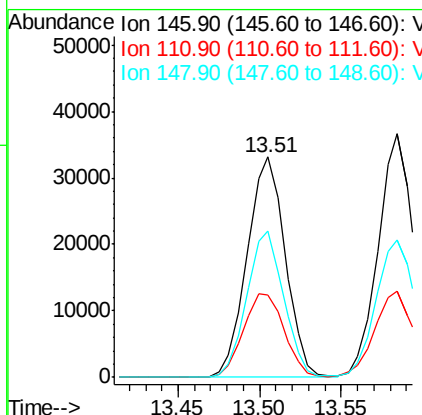
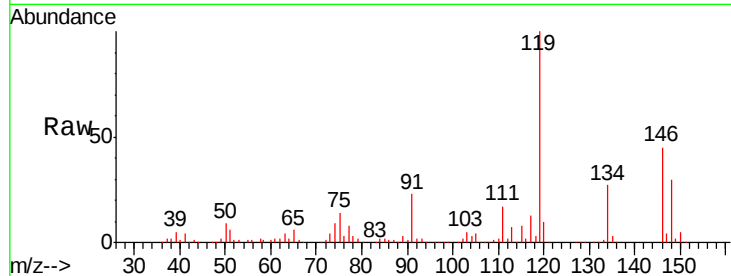
#87
 1,3-Dichlorobenzene
 Concen: 19.336 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.1	63.4
148	64.3	32.8	98.4

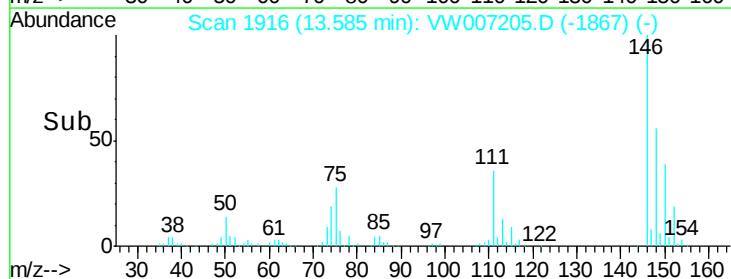
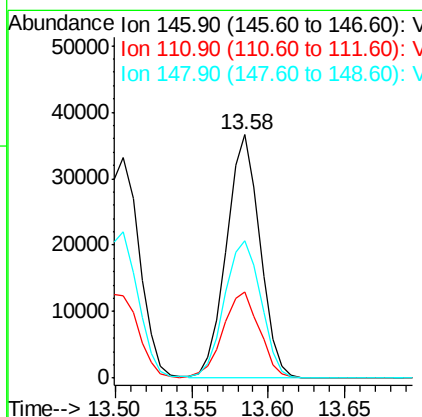
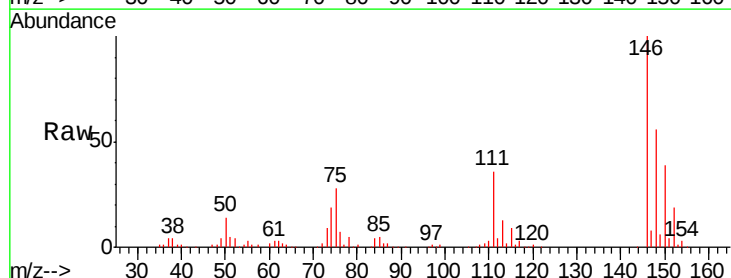
Manual Integrations
 APPROVED

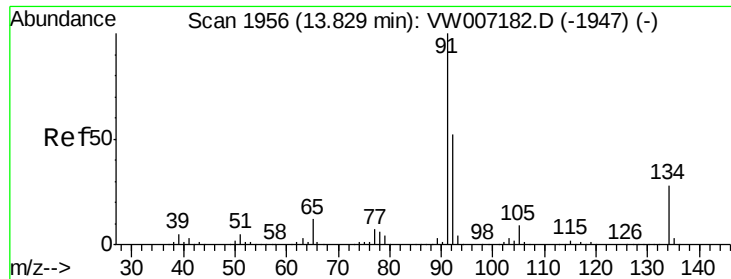
apatel
 12/5/2018 12:44:24 PM



#88
 1,4-Dichlorobenzene
 Concen: 19.693 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.6	58.8
148	61.6	32.6	98.0





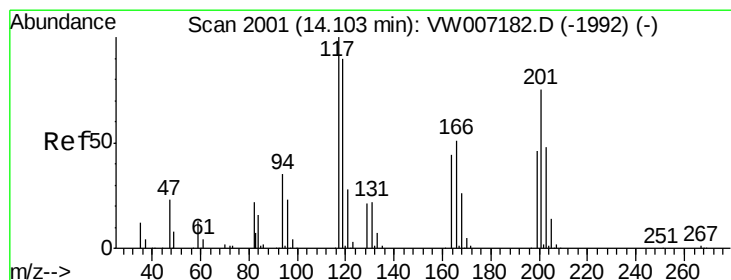
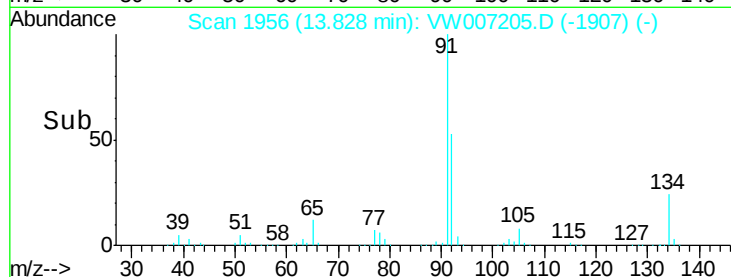
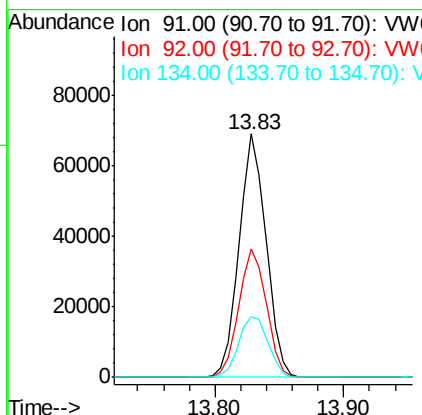
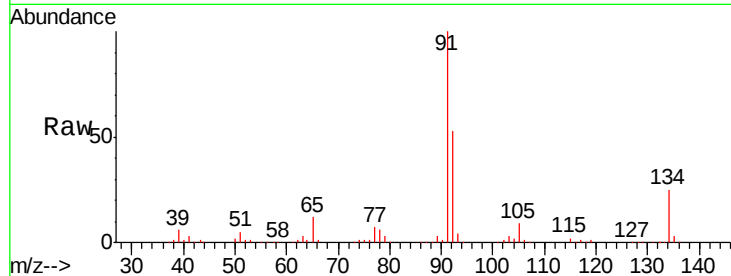
#89
n-Butylbenzene
Concen: 17.867 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.5	79.5
134	27.1	14.1	42.2

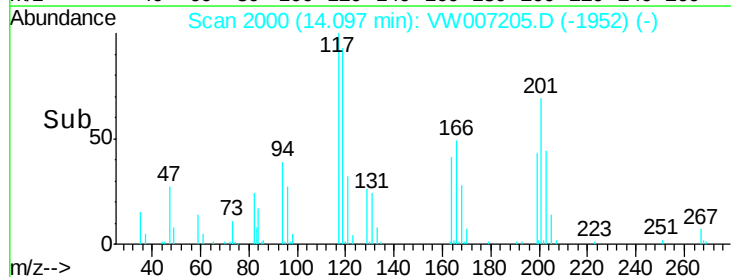
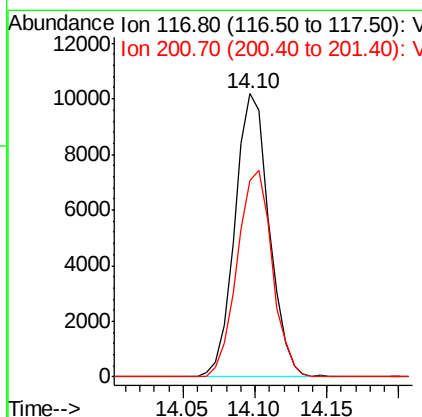
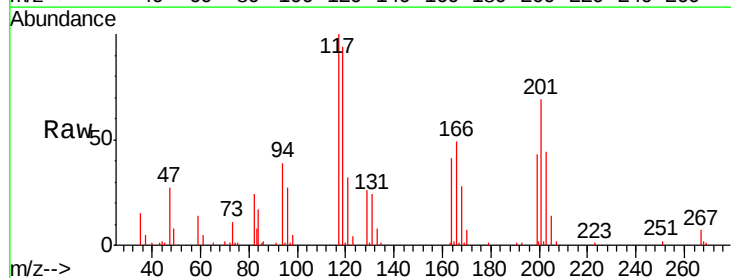
Manual Integrations
APPROVED

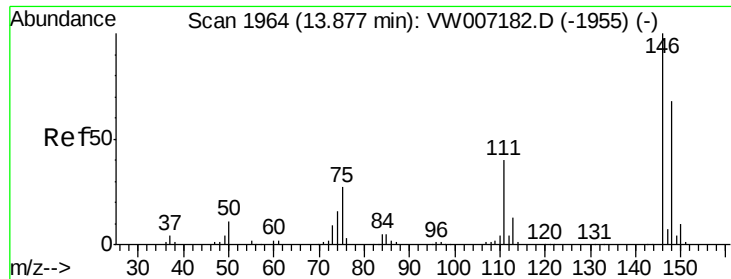
apatel
12/5/2018 12:44:24 PM



#90
Hexachloroethane
Concen: 18.396 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.01 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.1	36.0	108.1





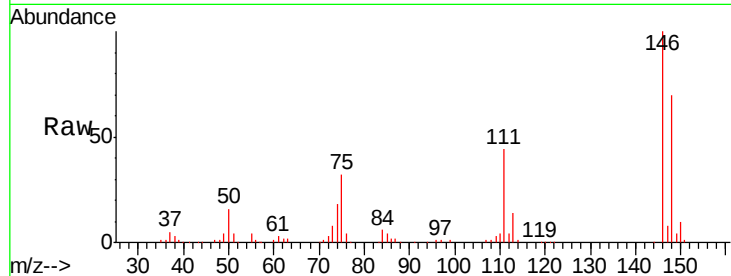
#91
 1,2-Dichlorobenzene
 Concen: 19.695 ug/l
 RT: 13.88 min Scan# 1964
 Delta R.T. -0.00 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1204SBS02

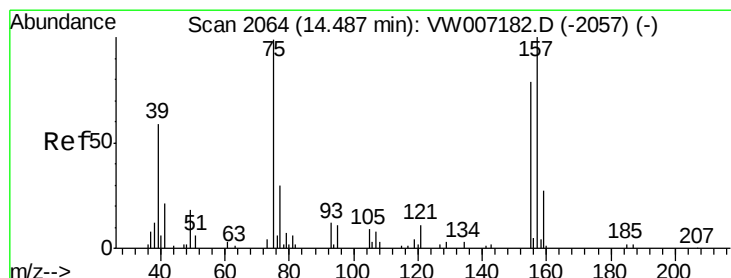
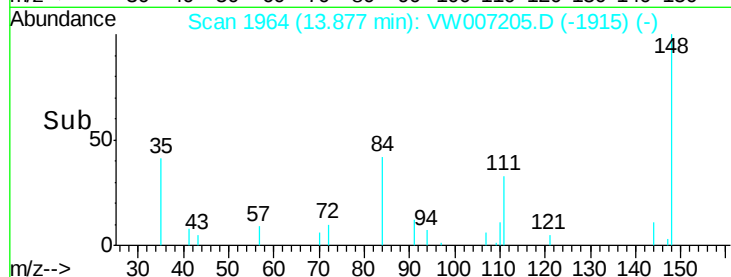
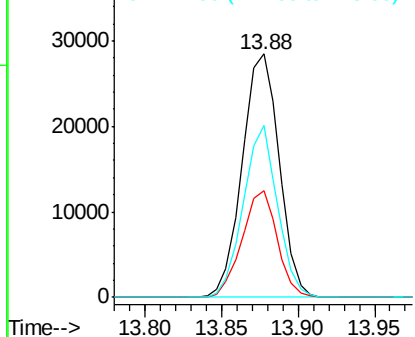
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.6	65.0
148	65.1	32.7	98.1

Manual Integrations
 APPROVED

apatel
 12/5/2018 12:44:24 PM

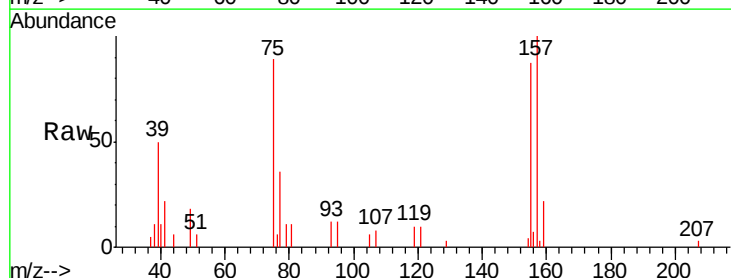


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

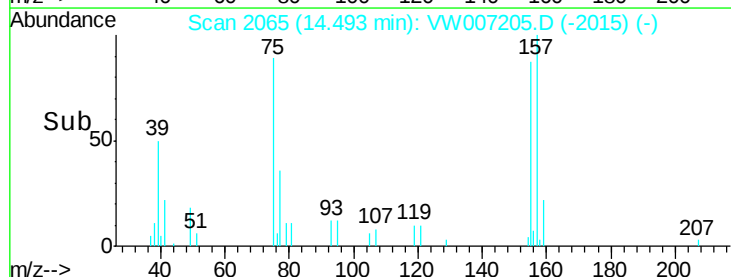
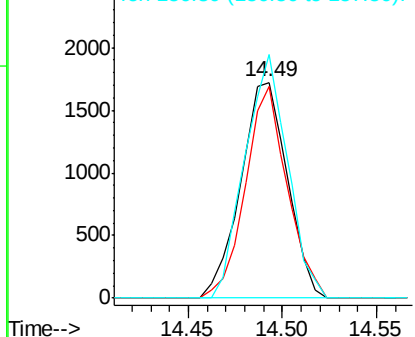


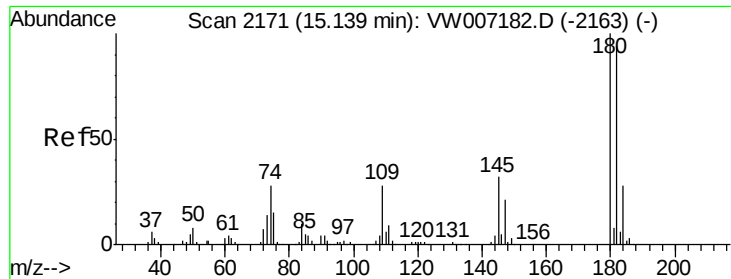
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.537 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.01 min
 Lab File: VW007205.D
 Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
75	100		
155	88.0	42.4	127.2
157	103.6	55.3	165.9



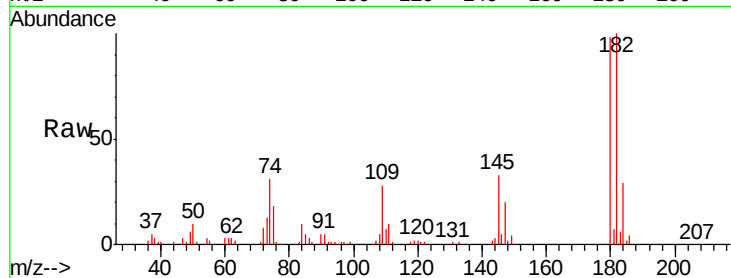
Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#93
1,2,4-Trichlorobenzene
Concen: 18.274 ug/l
RT: 15.14 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

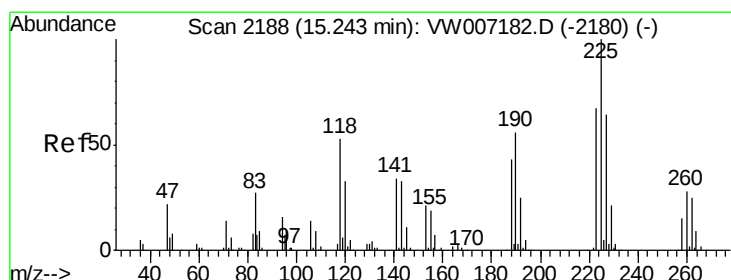
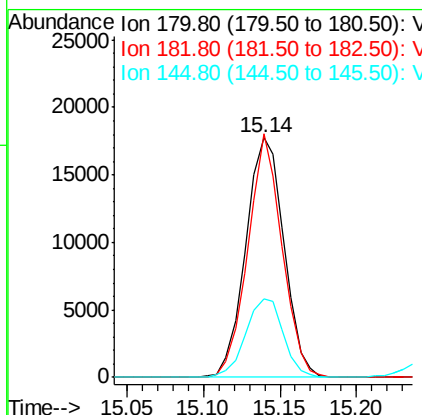
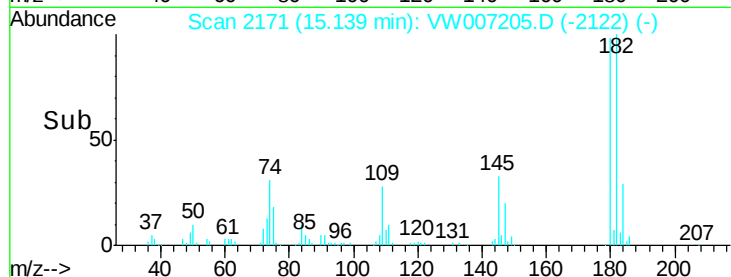
Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02



Tgt Ion	Ratio	Resp	Lower	Upper
180	100	30740		
182	90.9	47.9	143.8	
145	32.5	16.6	49.7	

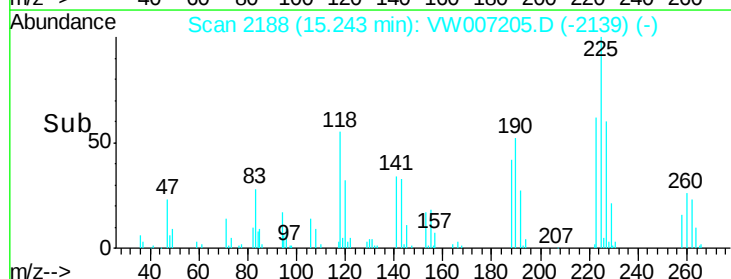
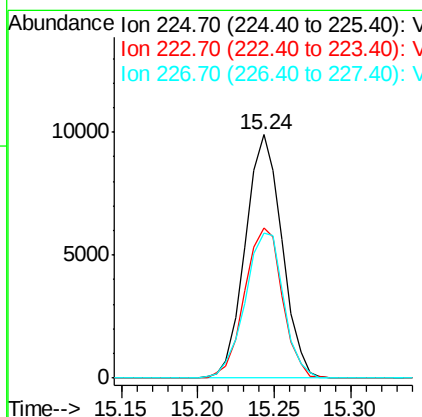
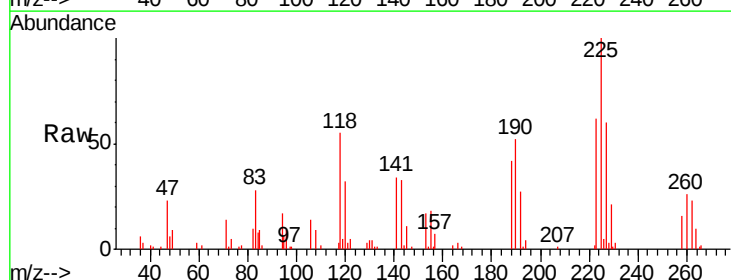
Manual Integrations
APPROVED

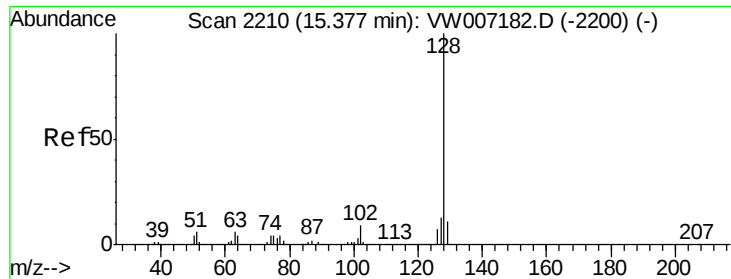
apatel
12/5/2018 12:44:24 PM



#94
Hexachlorobutadiene
Concen: 18.182 ug/l
RT: 15.24 min Scan# 2188
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	16493		
223	63.2	32.3	96.8	
227	62.4	32.1	96.3	





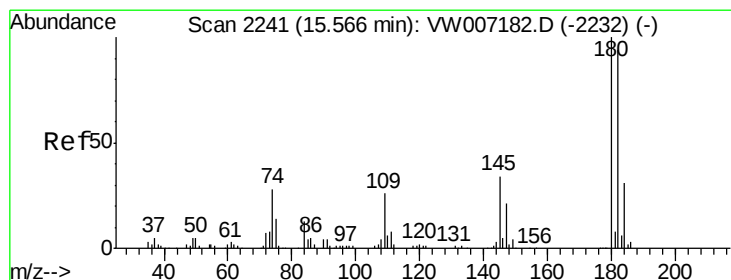
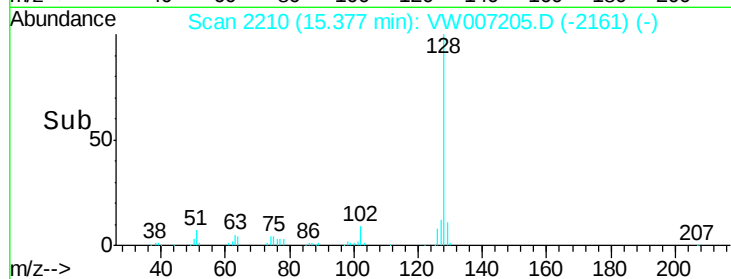
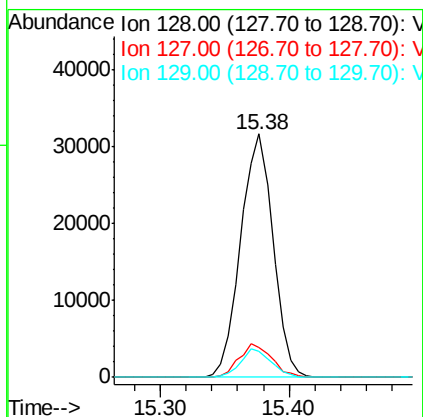
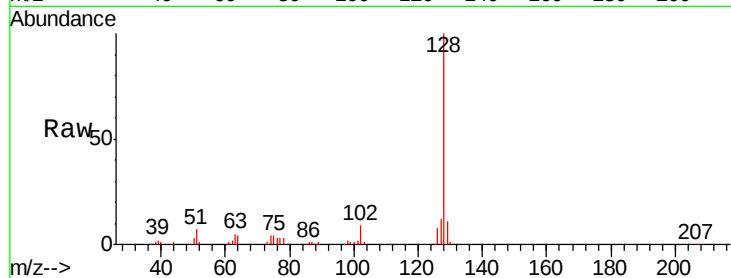
#95
Naphthalene
Concen: 18.295 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Instrument :
MSVOA_W
ClientSampleId :
VW1204SBS02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.3	15.5
129	11.0	8.6	13.0

Manual Integrations
APPROVED

apatel
12/5/2018 12:44:24 PM



#96
1,2,3-Trichlorobenzene
Concen: 18.155 ug/l
RT: 15.57 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VW007205.D
Acq: 05 Dec 2018 01:01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.4	142.2
145	35.7	17.6	52.8

