

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059635.D
 Acq On : 24 Jul 2018 16:35
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 7/25/2018 2:03:16 PM

Quant Time: Jul 25 01:17:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 00:58:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.02	168	246937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	336642	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	324747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	212774	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	32751	8.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.20%	
35) Dibromofluoromethane	4.28	113	31857	10.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.68%	
50) Toluene-d8	7.70	98	73096	9.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.96%	
62) 4-Bromofluorobenzene	11.50	95	38954	8.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	17.74%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	30295	9.971	ug/l	91
3) Chloromethane	1.08	50	15394	10.731	ug/l	96
4) Vinyl Chloride	1.15	62	16272	10.319	ug/l	93
5) Bromomethane	1.33	94	12124	9.015	ug/l	95
6) Chloroethane	1.41	64	10167	10.558	ug/l #	77
7) Trichlorofluoromethane	1.48	101	47096m	11.045	ug/l	
8) Diethyl Ether	1.68	74	6423	10.649	ug/l	55
9) 1,1,2-Trichlorotrifluoroet	1.88	101	26475	12.086	ug/l	95
10) Methyl Iodide	1.95	142	38171	10.581	ug/l #	88
11) Tert butyl alcohol	2.68	59	6507	42.583	ug/l	96
12) 1,1-Dichloroethene	1.84	96	18875	11.034	ug/l #	83
13) Acrolein	2.08	56	3210	42.793	ug/l #	68
14) Allyl chloride	2.18	41	33012	10.666	ug/l	92
15) Acrylonitrile	3.06	53	12729	53.940	ug/l	96
16) Acetone	2.32	43	28879	45.140	ug/l	98
17) Carbon Disulfide	1.83	76	51703	11.628	ug/l	95
18) Methyl Acetate	2.44	43	9576	8.823	ug/l	93
19) Methyl tert-butyl Ether	2.53	73	43950	8.872	ug/l	97
20) Methylene Chloride	2.26	84	20573m	10.630	ug/l	
21) trans-1,2-Dichloroethene	2.40	96	17746	9.998	ug/l	92
22) Diisopropyl ether	2.92	45	58892	10.406	ug/l #	95
23) Vinyl Acetate	3.32	43	138723	49.187	ug/l	97
24) 1,1-Dichloroethane	2.98	63	43819	10.749	ug/l	99
25) 2-Butanone	4.49	43	32534	48.712	ug/l	97
26) 2,2-Dichloropropane	3.74	77	36823	10.850	ug/l	95
27) cis-1,2-Dichloroethene	3.63	96	24342	11.951	ug/l	86
28) Bromochloromethane	3.87	49	15809	10.552	ug/l	99
29) Tetrahydrofuran	4.24	42	13607	50.006	ug/l	98
30) Chloroform	4.02	83	59891	10.643	ug/l	98
31) Cyclohexane	3.84	56	25877	11.323	ug/l	98
32) 1,1,1-Trichloroethane	4.26	97	51630	10.257	ug/l #	91
36) 1,1-Dichloropropene	4.44	75	38856	11.478	ug/l	98
37) Ethyl Acetate	4.27	43	14501	10.885	ug/l #	81
38) Carbon Tetrachloride	4.16	117	54560	10.647	ug/l #	86

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
 Data File : VF059635.D
 Acq On : 24 Jul 2018 16:35
 Operator : VA/AP
 Sample : VSTDIC010
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 83 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDIC010

Manual Integrations
 APPROVED

apatel
 7/25/2018 2:03:16 PM

Quant Time: Jul 25 01:17:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 00:58:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	5.62	83	32578	11.931	ug/l #	82
40) Benzene	4.79	78	73140	11.818	ug/l	98
41) Methacrylonitrile	4.91	41	7721	11.734	ug/l #	87
42) 1,2-Dichloroethane	5.10	62	42034	10.266	ug/l	98
43) Isopropyl Acetate	7.09	43	15248	9.191	ug/l #	99
44) Trichloroethene	5.66	130	27721	11.739	ug/l	82
45) 1,2-Dichloropropane	6.38	63	17886	10.808	ug/l #	82
46) Dibromomethane	6.24	93	15634	11.622	ug/l #	87
47) Bromodichloromethane	6.53	83	41300	10.026	ug/l #	88
48) Methyl methacrylate	6.86	41	11573	9.162	ug/l	92
49) 1,4-Dioxane	6.86	88	1817	204.641	ug/l	99
51) 4-Methyl-2-Pentanone	8.40	43	59620	48.040	ug/l	99
52) Toluene	7.77	92	51561	11.016	ug/l	93
53) t-1,3-Dichloropropene	8.42	75	35226	10.217	ug/l	100
54) cis-1,3-Dichloropropene	7.45	75	35345	10.290	ug/l	95
55) 1,1,2-Trichloroethane	8.62	97	16098	10.368	ug/l	97
56) Ethyl methacrylate	8.75	69	16010	9.301	ug/l	93
57) 1,3-Dichloropropane	8.99	76	27568	10.160	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.77	63	11330	55.455	ug/l	100
59) 2-Hexanone	9.62	43	44151	44.780	ug/l	99
60) Dibromochloromethane	8.85	129	28615	10.263	ug/l	92
61) 1,2-Dibromoethane	9.12	107	18158	10.161	ug/l	96
64) Tetrachloroethene	8.29	164	26337	10.831	ug/l #	91
65) Chlorobenzene	9.92	112	67213	11.352	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	29709	11.013	ug/l	97
67) Ethyl Benzene	10.02	91	122568	11.430	ug/l	100
68) m/p-Xylenes	10.26	106	88561	23.805	ug/l	94
69) o-Xylene	10.82	106	44126	10.999	ug/l	96
70) Styrene	10.89	104	66124	11.064	ug/l	97
71) Bromoform	10.88	173	17026	10.282	ug/l	85
73) Isopropylbenzene	11.22	105	147494	10.934	ug/l	95
74) N-amyl acetate	11.45	43	28798	9.719	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.78	83	19529	8.758	ug/l	96
76) 1,2,3-Trichloropropane	11.88	75	17255	8.836	ug/l	91
77) Bromobenzene	11.59	156	36234	10.531	ug/l	95
78) n-propylbenzene	11.68	91	179137	11.132	ug/l	99
79) 2-Chlorotoluene	11.81	91	102867	10.631	ug/l	97
80) 1,3,5-Trimethylbenzene	11.91	105	130768	10.802	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.94	75	10749	13.296	ug/l	92
82) 4-Chlorotoluene	11.98	91	111263	10.375	ug/l	96
83) tert-Butylbenzene	12.21	119	136088	11.382	ug/l	95
84) 1,2,4-Trimethylbenzene	12.28	105	135884	11.082	ug/l	100
85) sec-Butylbenzene	12.38	105	176091	11.344	ug/l	95
86) p-Isopropyltoluene	12.54	119	157831	11.615	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	78267	11.713	ug/l	97
88) 1,4-Dichlorobenzene	12.63	146	66659	10.701	ug/l	94
89) n-Butylbenzene	12.91	91	154345	11.824	ug/l	96
90) Hexachloroethane	12.99	117	36170	10.663	ug/l #	1
91) 1,2-Dichlorobenzene	13.01	146	62985	10.018	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	13.71	75	4715	8.692	ug/l #	70

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF072418\
Data File : VF059635.D
Acq On : 24 Jul 2018 16:35
Operator : VA/AP
Sample : VSTDICC010
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 83 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC010

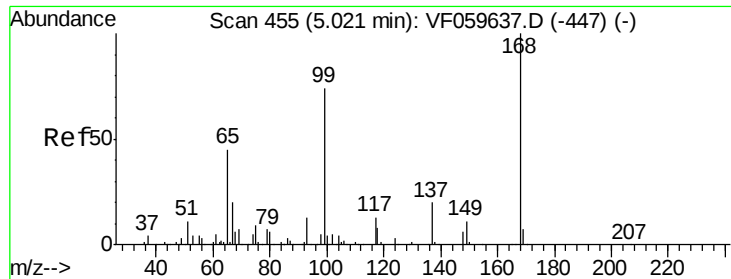
Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM

Quant Time: Jul 25 01:17:27 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072418S.M
Quant Title : SW846 8260
QLast Update : Wed Jul 25 00:58:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.26	180	52711	11.220	ug/l	95
94) Hexachlorobutadiene	14.25	225	39918	12.173	ug/l	94
95) Naphthalene	14.52	128	70787	9.347	ug/l	99
96) 1,2,3-Trichlorobenzene	14.67	180	46488	10.914	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.02 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 246937

Ion Ratio Lower Upper

168 100

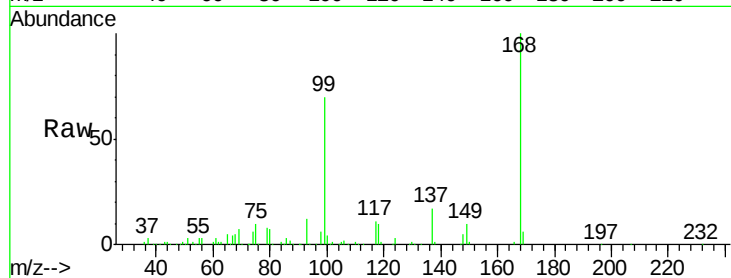
99 69.8 59.5 89.3

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

80000

60000

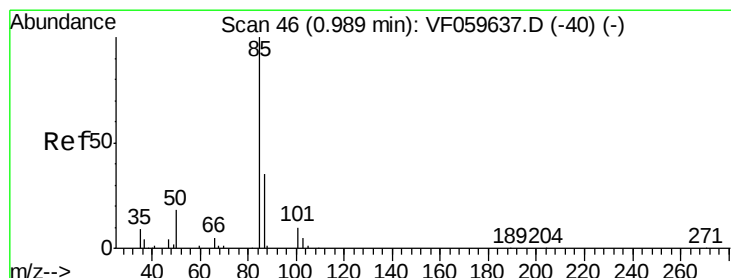
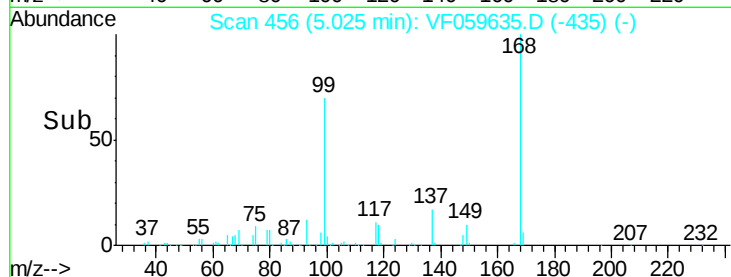
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 9.971 ug/l

RT: 0.98 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF059635.D

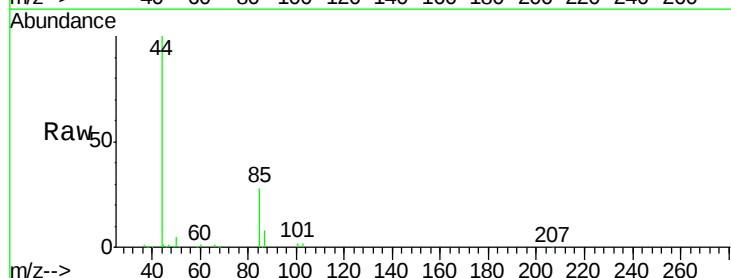
Acq: 24 Jul 2018 16:35

Tgt Ion: 85 Resp: 30295

Ion Ratio Lower Upper

85 100

87 29.6 17.4 52.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

12000

10000

8000

6000

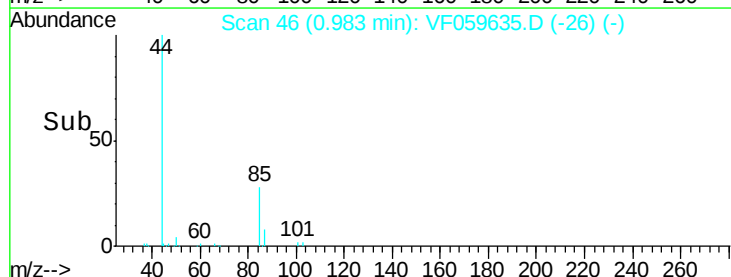
4000

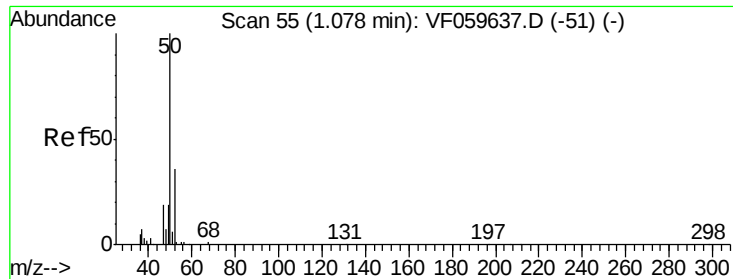
2000

0

Time-->

0.90 1.00 1.10





#3

Chloromethane

Concen: 10.731 ug/l

RT: 1.08 min Scan# 56

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 15394

Ion Ratio Lower Upper

50 100

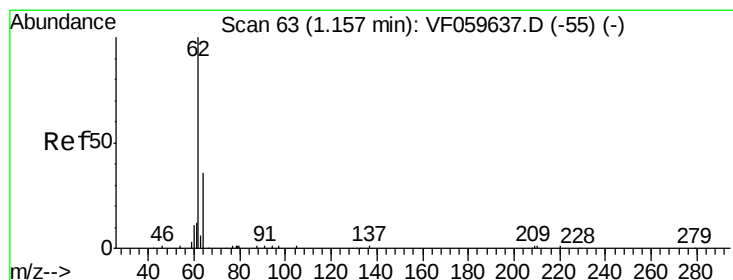
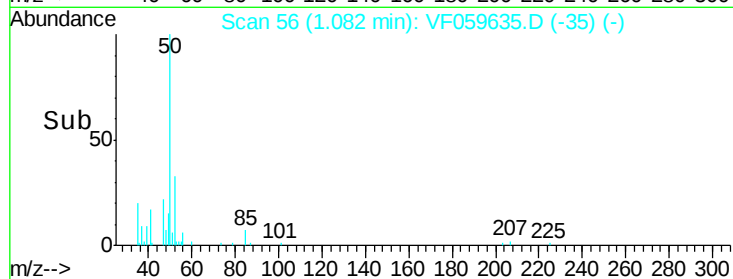
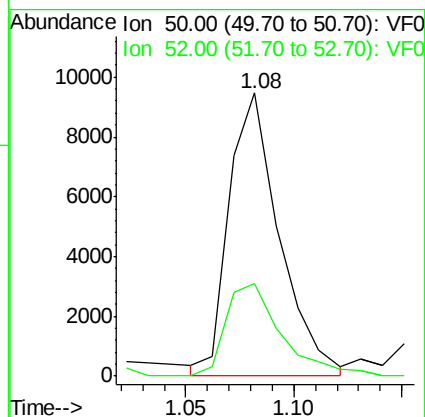
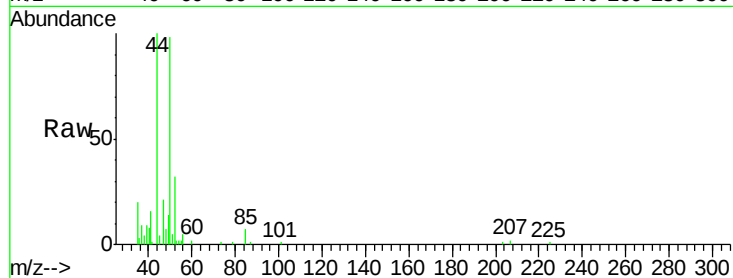
52 32.6 28.0 42.0

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#4

Vinyl Chloride

Concen: 10.319 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059635.D

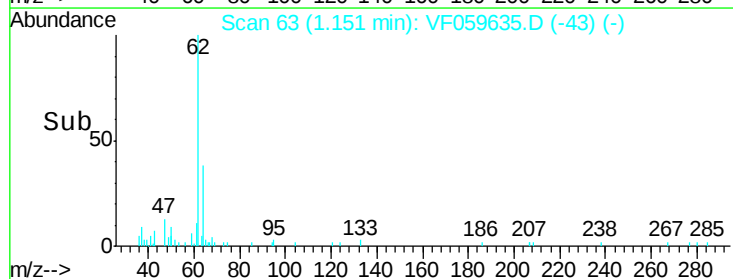
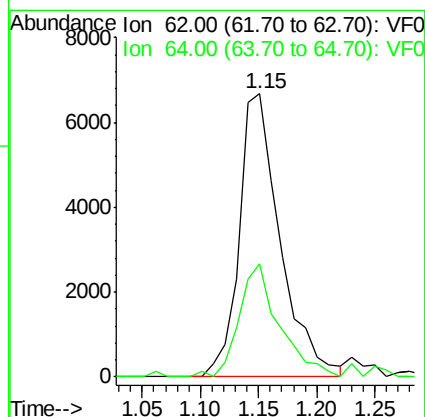
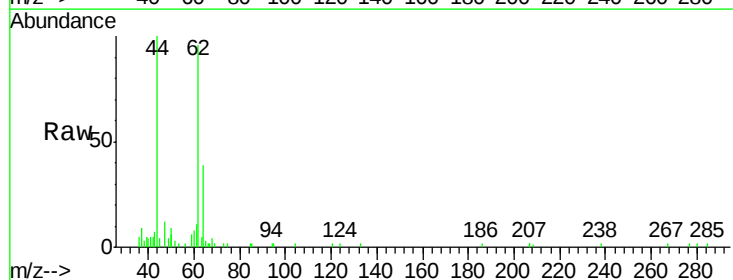
Acq: 24 Jul 2018 16:35

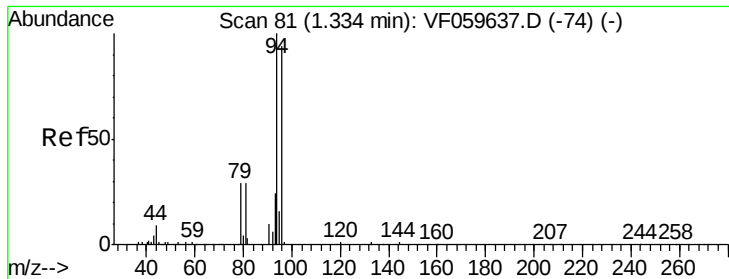
Tgt Ion: 62 Resp: 16272

Ion Ratio Lower Upper

62 100

64 40.1 28.6 43.0





#5

Bromomethane

Concen: 9.015 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 12124

Ion Ratio Lower Upper

94 100

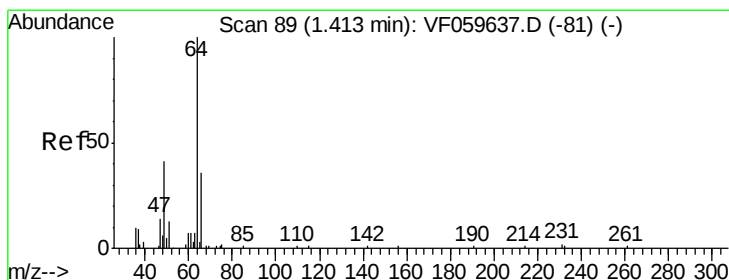
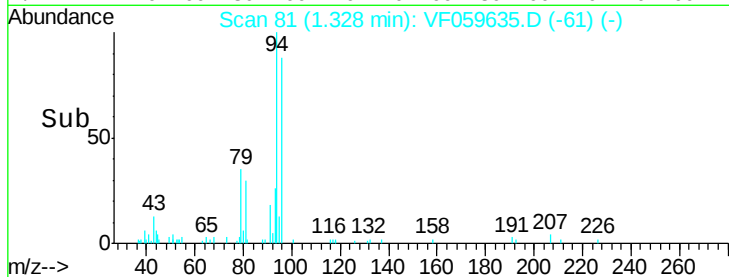
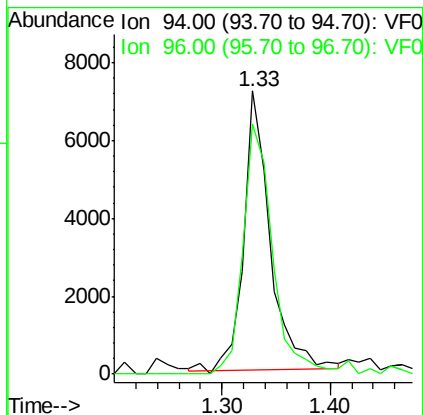
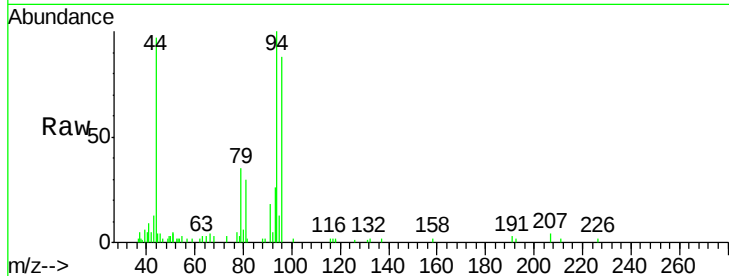
96 88.4 74.6 112.0

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#6

Chloroethane

Concen: 10.558 ug/l

RT: 1.41 min Scan# 89

Delta R.T. -0.01 min

Lab File: VF059635.D

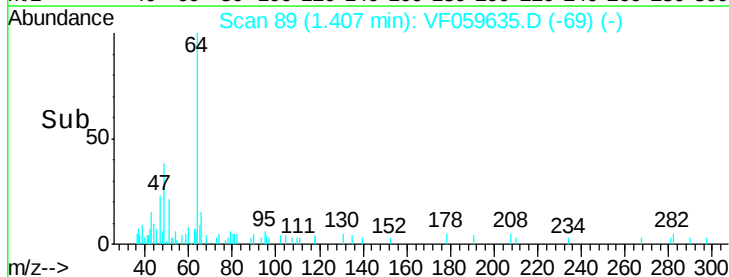
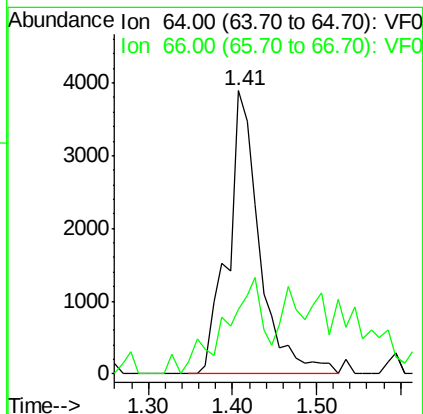
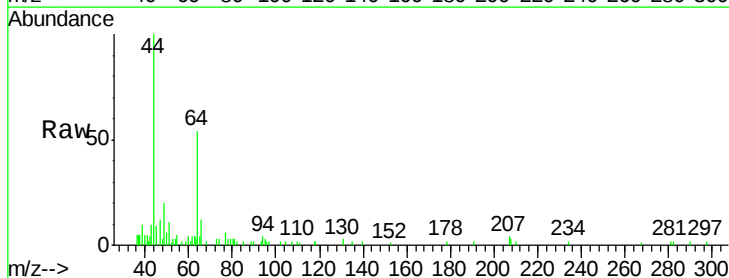
Acq: 24 Jul 2018 16:35

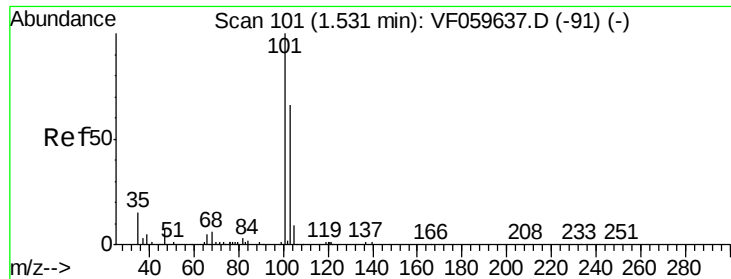
Tgt Ion: 64 Resp: 10167

Ion Ratio Lower Upper

64 100

66 22.7 29.0 43.6#





#7

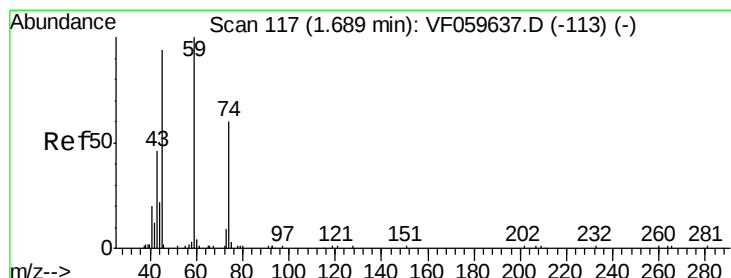
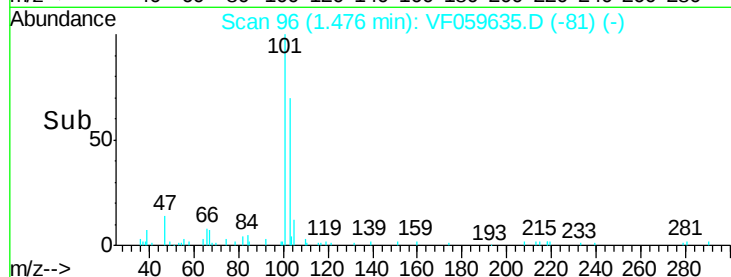
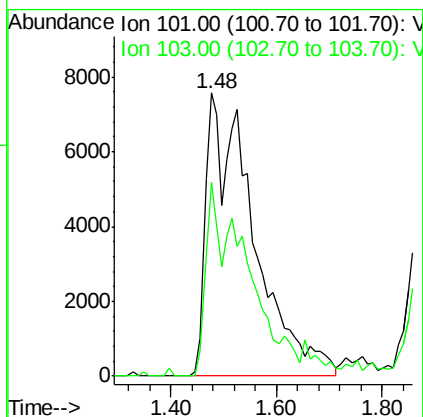
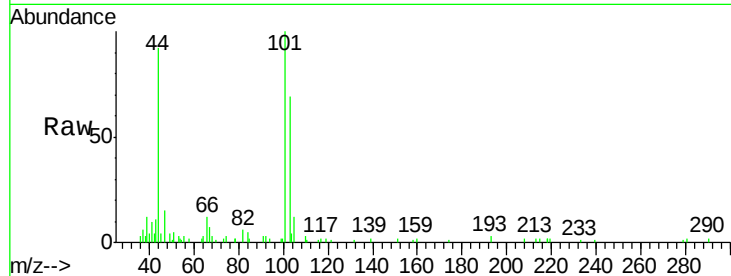
Trichlorofluoromethane
 Concen: 11.045 ug/l m
 RT: 1.48 min Scan# 96
 Delta R.T. -0.06 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion:101 Resp: 47096
 Ion Ratio Lower Upper
 101 100
 103 68.6 52.5 78.7

Manual Integrations
 APPROVED

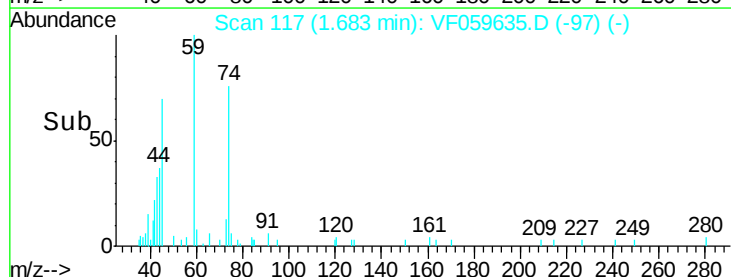
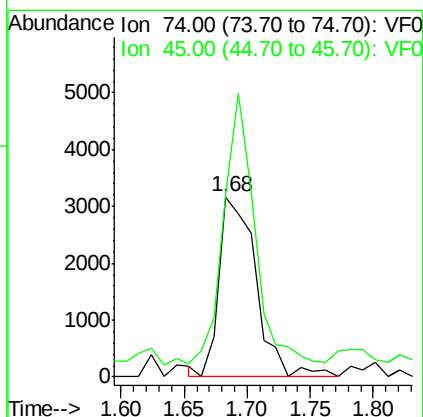
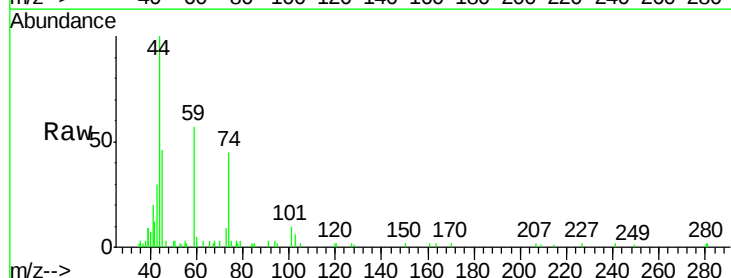
apatel
 7/25/2018 2:03:16 PM

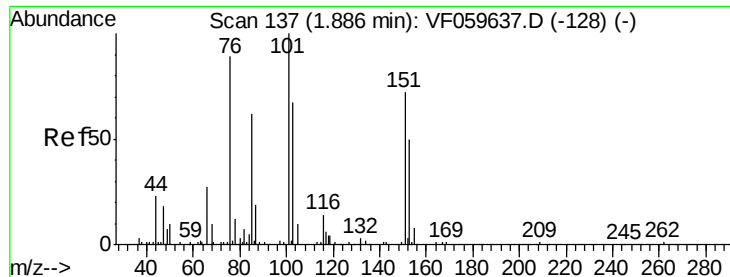


#8

Diethyl Ether
 Concen: 10.649 ug/l
 RT: 1.68 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion: 74 Resp: 6423
 Ion Ratio Lower Upper
 74 100
 45 101.1 80.3 241.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.086 ug/l

RT: 1.88 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

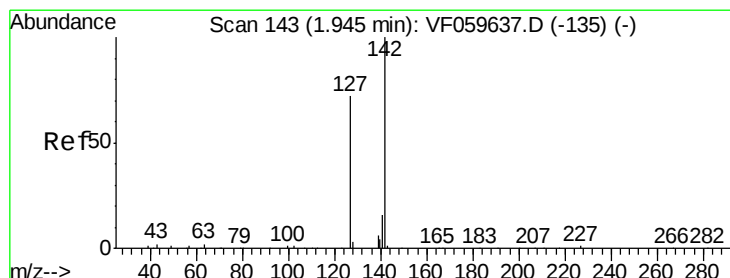
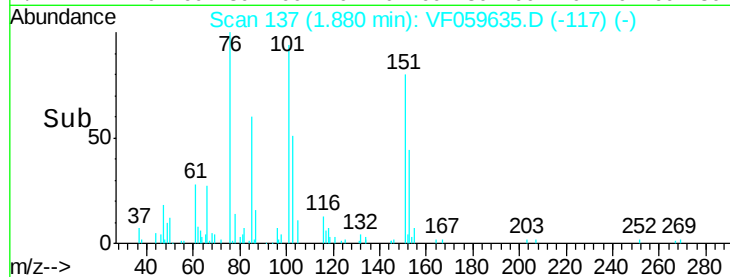
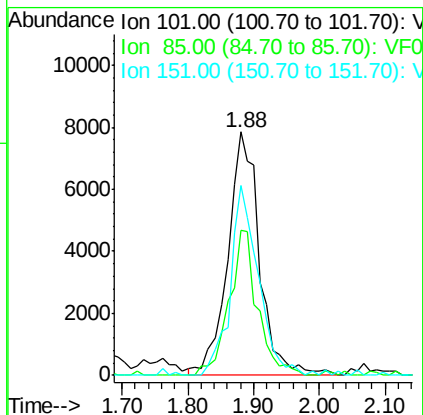
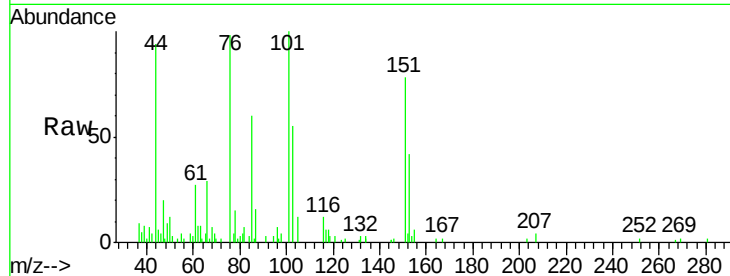
ClientSampleId :

VSTDIC010

Tot Ion:	101	Resp:	26475
Ion Ratio	Lower	Upper	
101	100		
85	59.7	49.0	73.4
151	78.0	56.8	85.2

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#10

Methyl Iodide

Concen: 10.581 ug/l

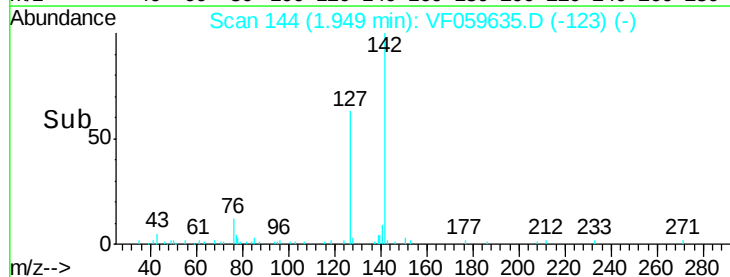
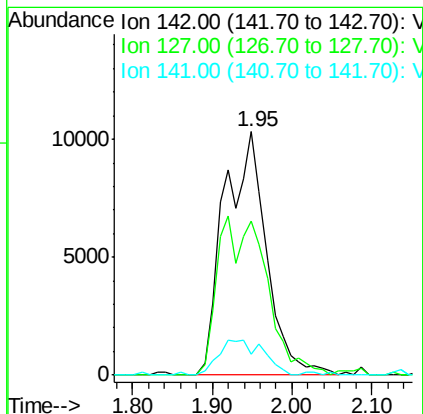
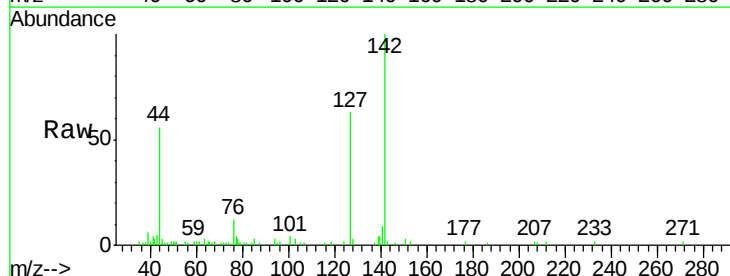
RT: 1.95 min Scan# 144

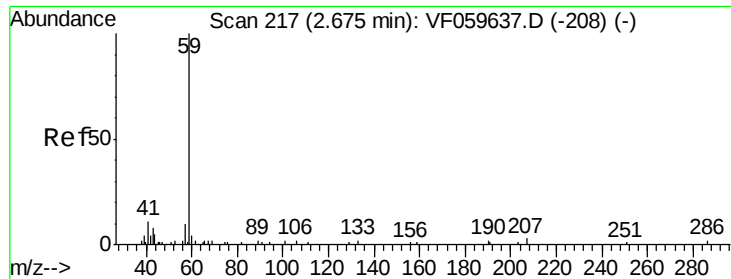
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	142	Resp:	38171
Ion Ratio	Lower	Upper	
142	100		
127	63.5	57.5	86.3
141	8.5	13.2	19.8#





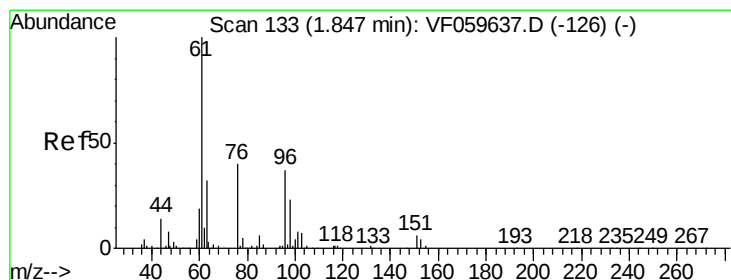
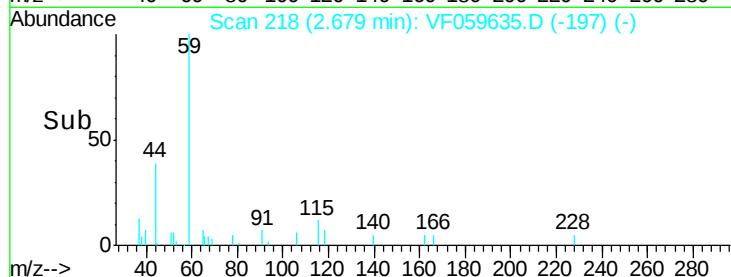
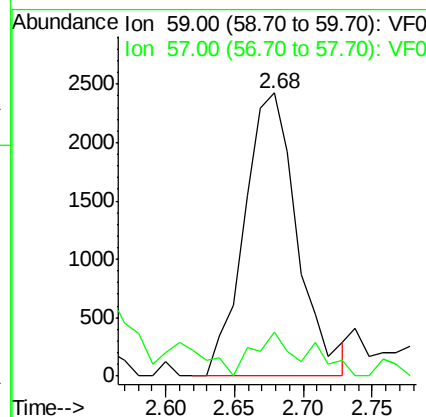
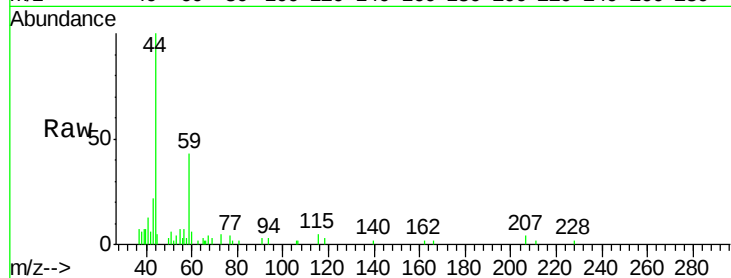
#11
Tert butyl alcohol
Concen: 42.583 ug/l
RT: 2.68 min Scan# 218
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
59	100		
57	15.8	11.4	17.2

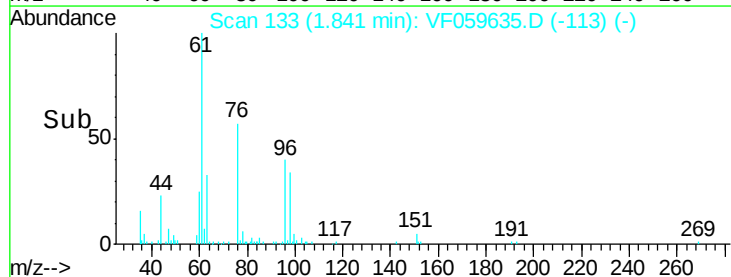
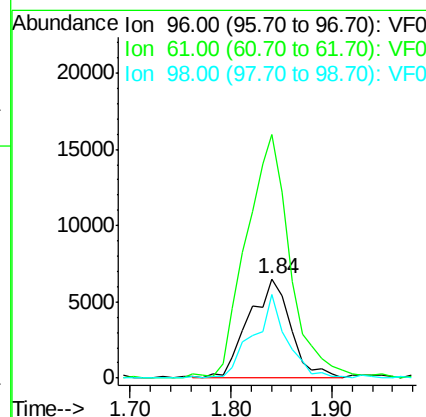
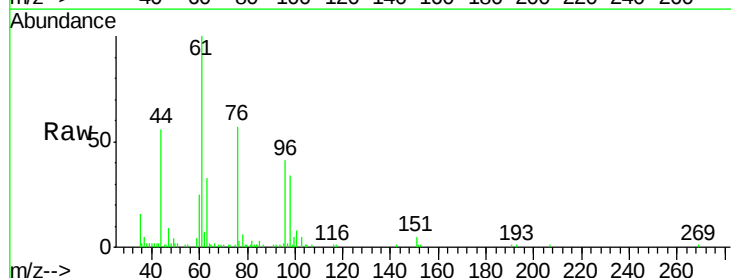
Manual Integrations
APPROVED

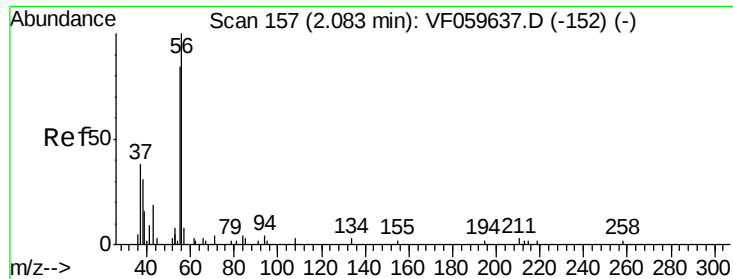
apatel
7/25/2018 2:03:16 PM



#12
1,1-Dichloroethene
Concen: 11.034 ug/l
RT: 1.84 min Scan# 133
Delta R.T. -0.01 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	245.1	218.2	327.4
98	83.9	50.6	76.0#





#13

Acrolein

Concen: 42.793 ug/l

RT: 2.08 min Scan# 157

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 3210

Ion Ratio Lower Upper

56 100

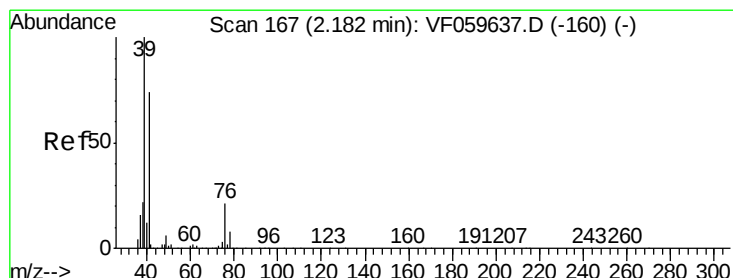
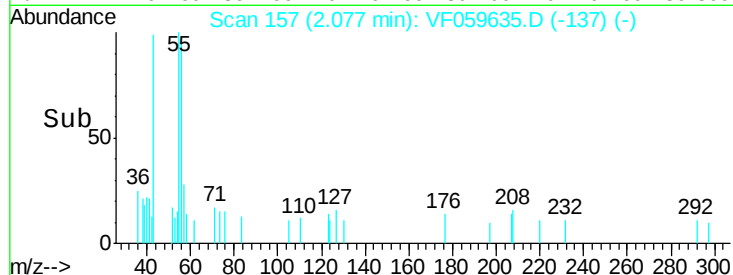
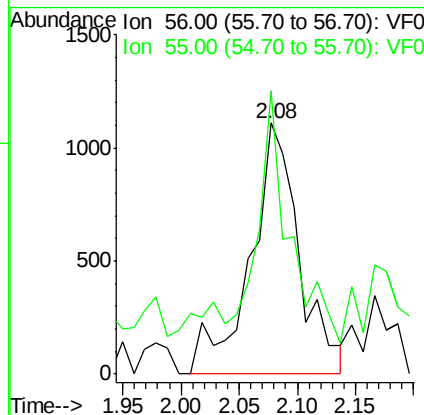
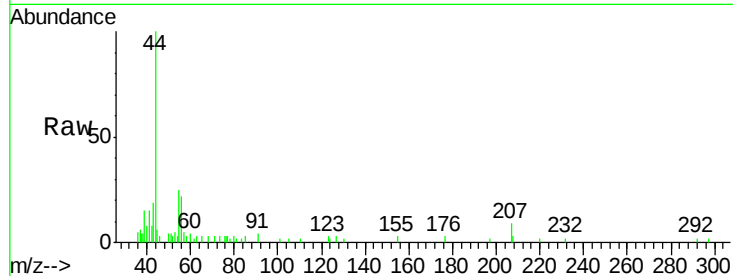
55 112.7 67.2 100.8#

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#14

Allyl chloride

Concen: 10.666 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

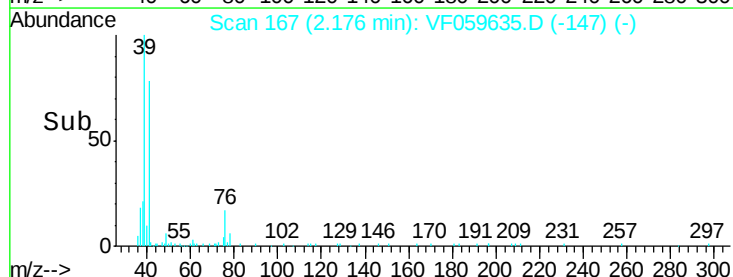
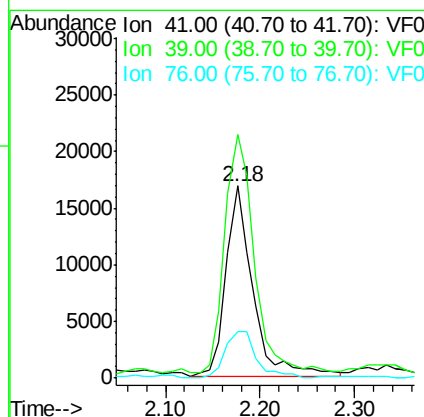
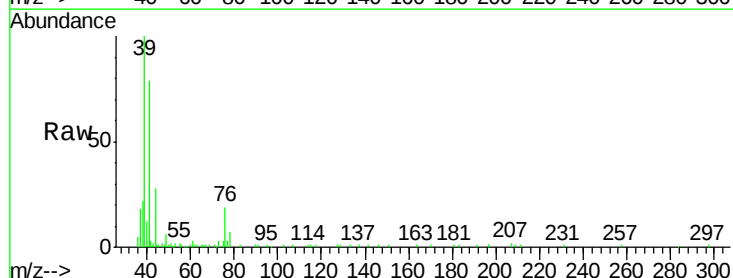
Tgt Ion: 41 Resp: 33012

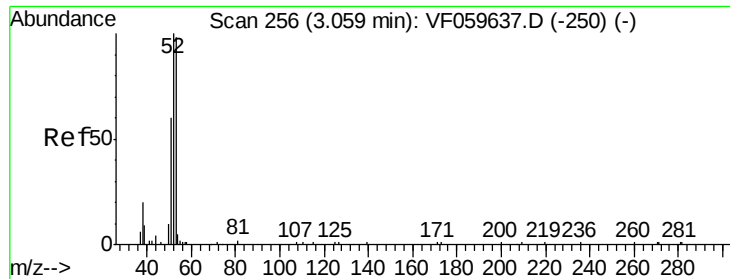
Ion Ratio Lower Upper

41 100

39 126.9 108.6 162.8

76 24.1 23.0 34.6





#15

Acrylonitrile

Concen: 53.940 ug/l

RT: 3.06 min Scan# 257

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

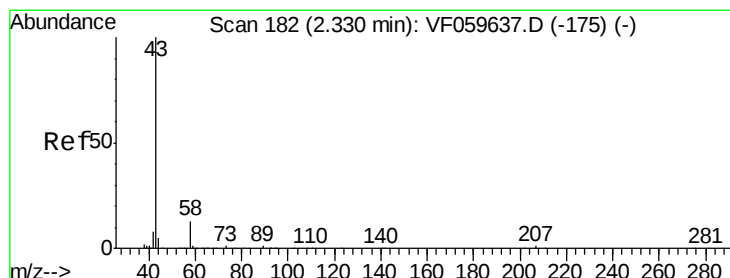
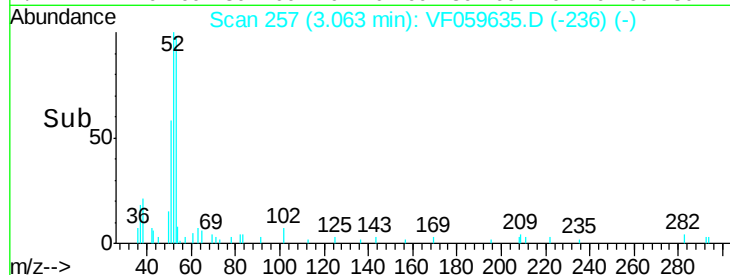
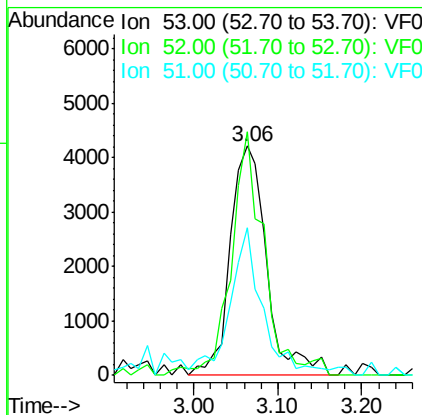
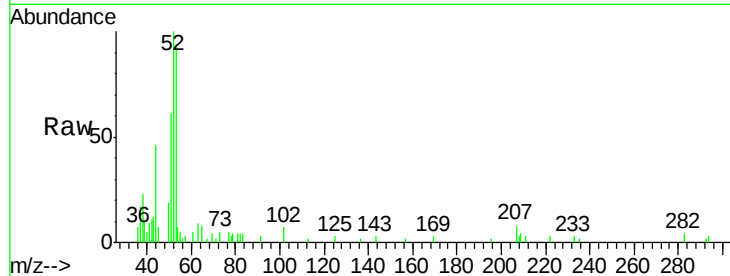
ClientSampleId :

VSTDIC010

Tot Ion:	53	Resp:	12729
Ion	Ratio	Lower	Upper
53	100		
52	106.1	80.9	121.3
51	64.2	49.4	74.2

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#16

Acetone

Concen: 45.140 ug/l

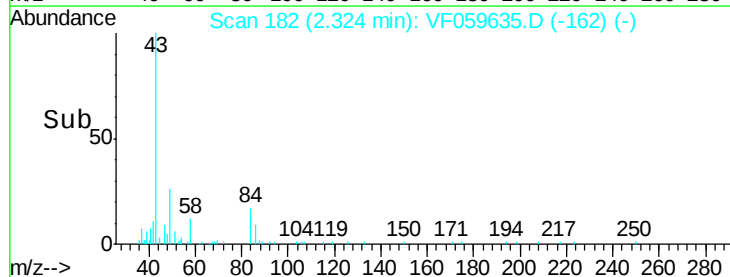
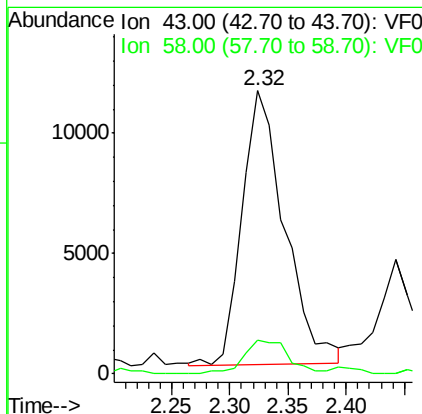
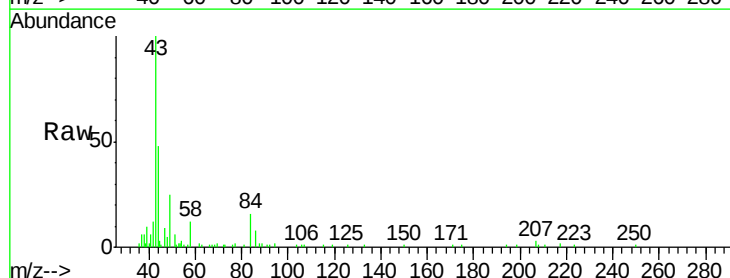
RT: 2.32 min Scan# 182

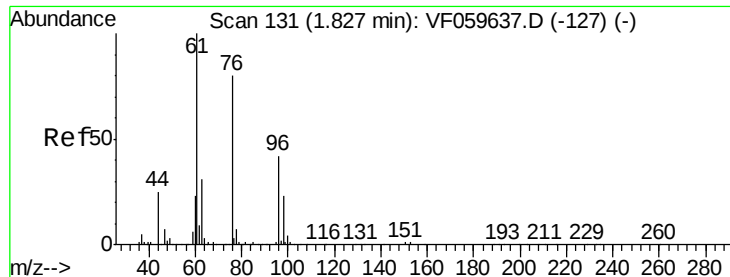
Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	43	Resp:	28879
Ion	Ratio	Lower	Upper
43	100		
58	12.0	10.2	15.2





#17

Carbon Disulfide

Concen: 11.628 ug/l

RT: 1.83 min Scan# 132

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 51703

Ion Ratio Lower Upper

76 100

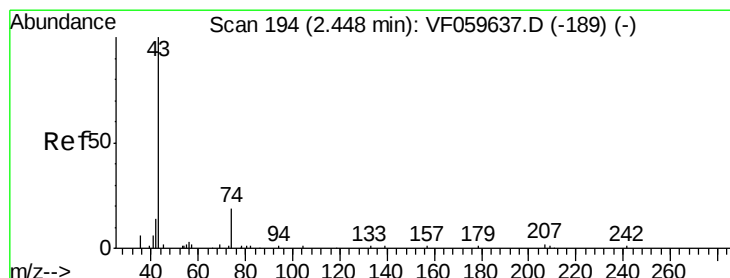
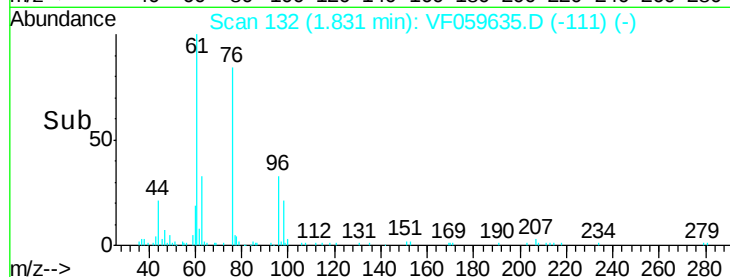
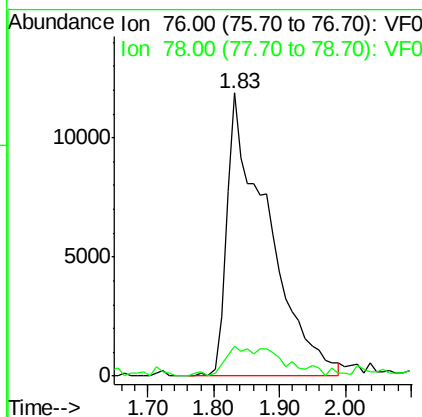
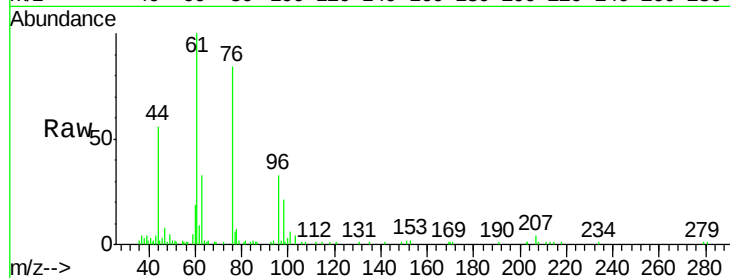
78 10.4 7.0 10.6

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#18

Methyl Acetate

Concen: 8.823 ug/l

RT: 2.44 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF059635.D

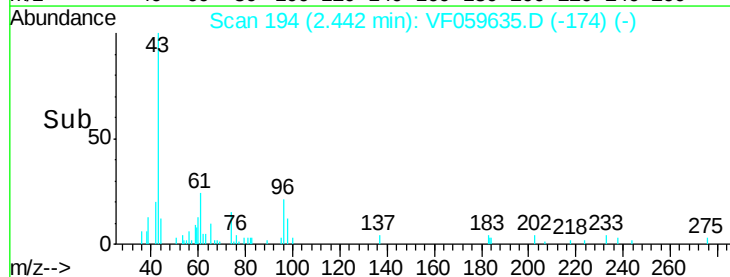
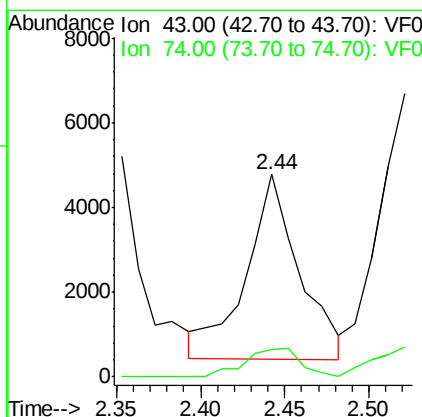
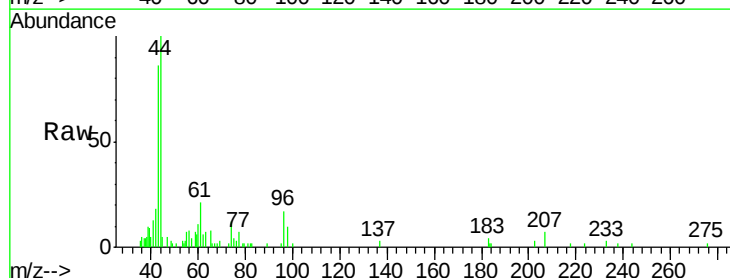
Acq: 24 Jul 2018 16:35

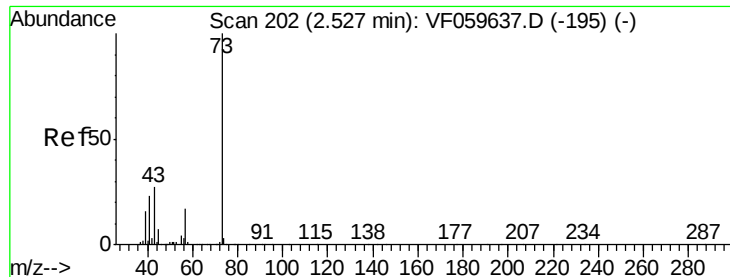
Tgt Ion: 43 Resp: 9576

Ion Ratio Lower Upper

43 100

74 13.5 13.0 19.6





#19

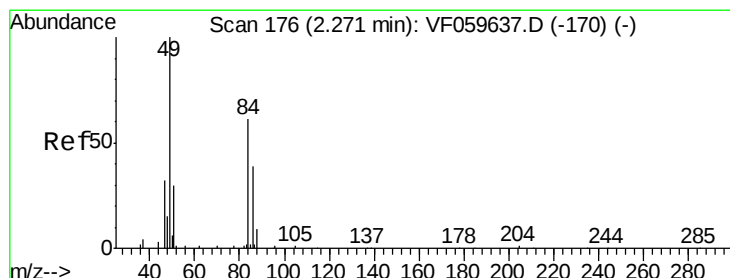
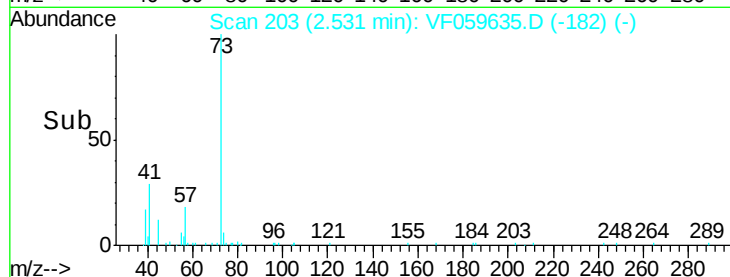
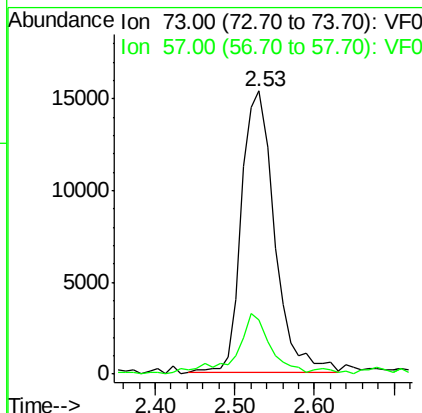
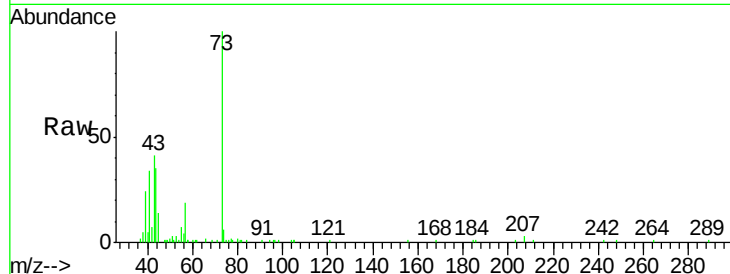
Methyl tert-butyl Ether
 Concen: 8.872 ug/l
 RT: 2.53 min Scan# 203
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.0	14.2	21.4

Manual Integrations
 APPROVED

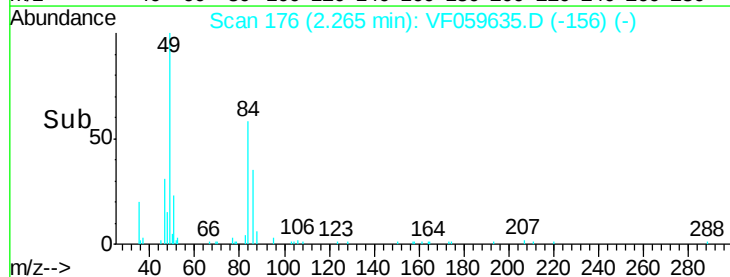
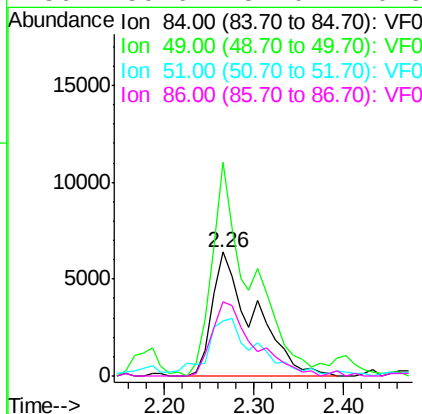
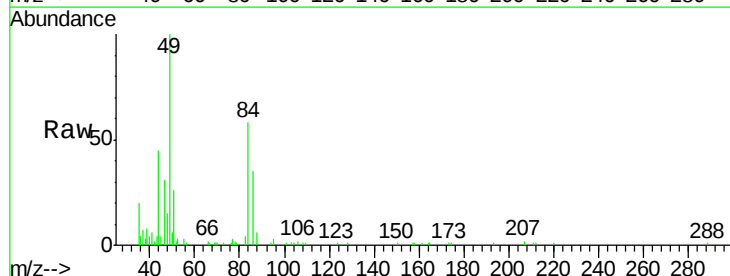
apatel
 7/25/2018 2:03:16 PM

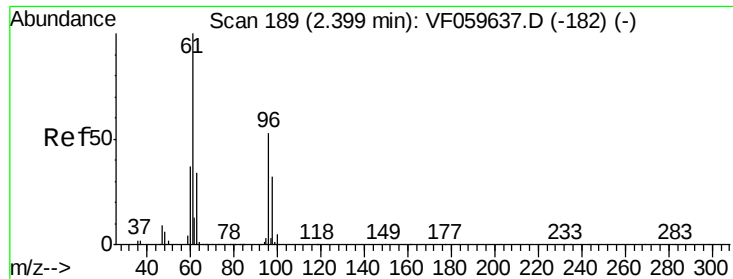


#20

Methylene Chloride
 Concen: 10.630 ug/l m
 RT: 2.26 min Scan# 176
 Delta R.T. -0.01 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
84	100		
49	172.7	133.8	200.8
51	44.1	41.1	61.7
86	59.6	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 9.998 ug/l

RT: 2.40 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

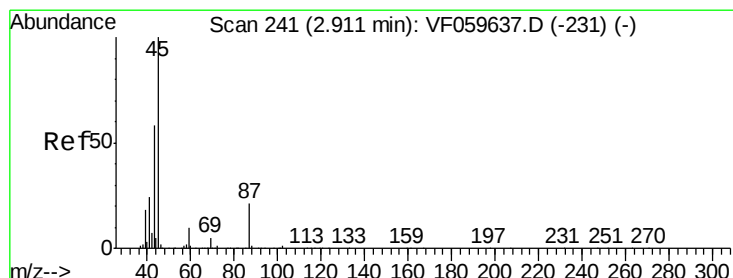
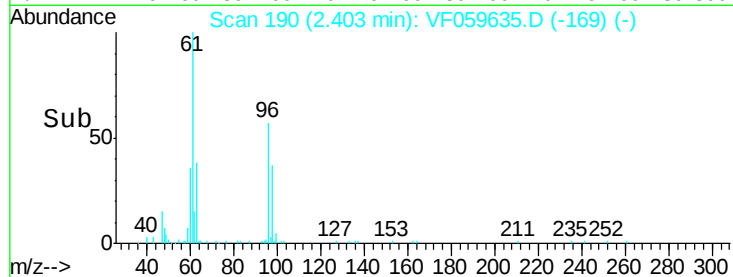
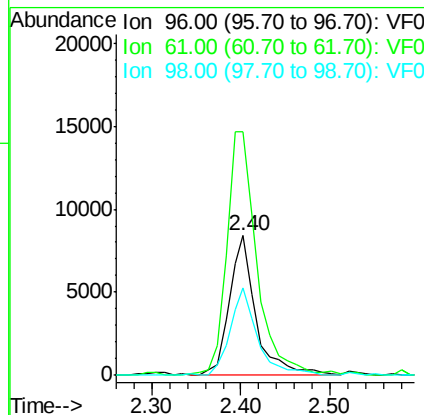
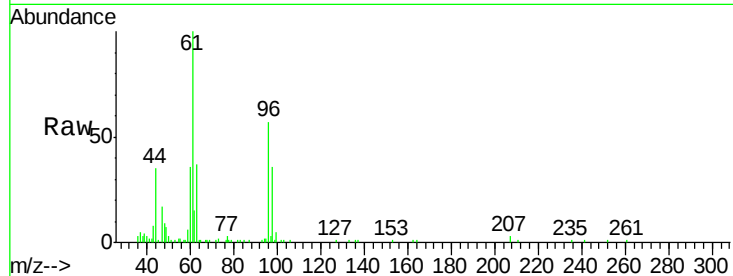
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	17746
Ion	Ratio	Lower	Upper
96	100		
61	174.7	151.4	227.2
98	62.8	49.0	73.6

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#22

Diisopropyl ether

Concen: 10.406 ug/l

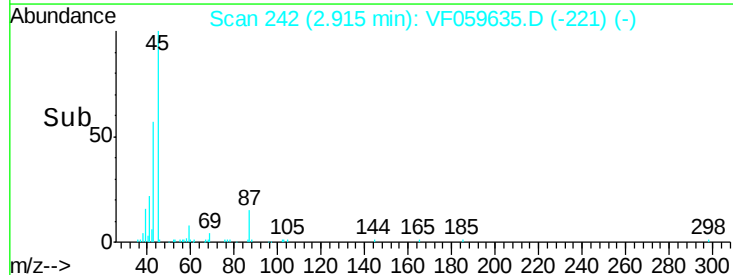
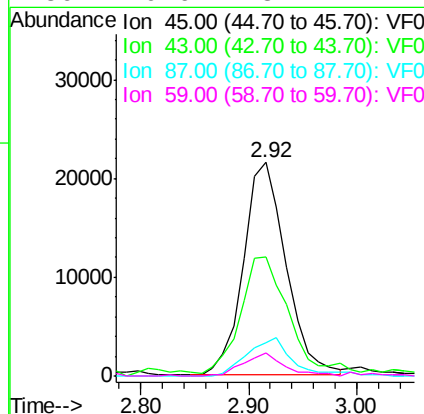
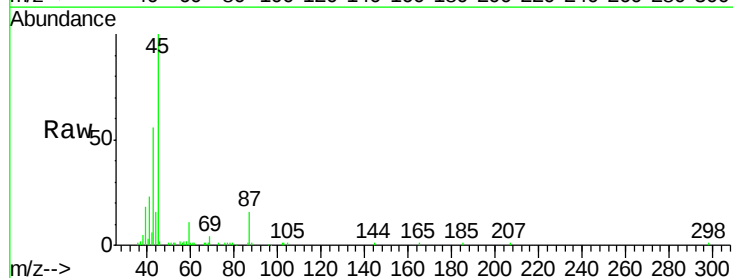
RT: 2.92 min Scan# 242

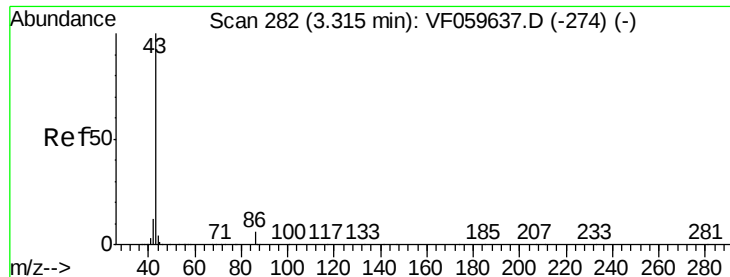
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	45	Resp:	58892
Ion	Ratio	Lower	Upper
45	100		
43	55.8	46.5	69.7
87	15.5	16.5	24.7#
59	10.6	8.2	12.2





#23

Vinyl Acetate

Concen: 49.187 ug/l

RT: 3.32 min Scan# 283

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 138723

Ion Ratio Lower Upper

43 100

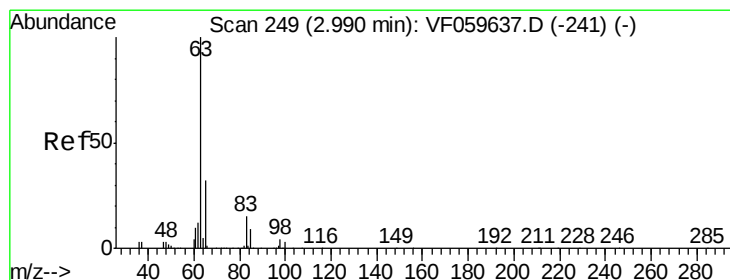
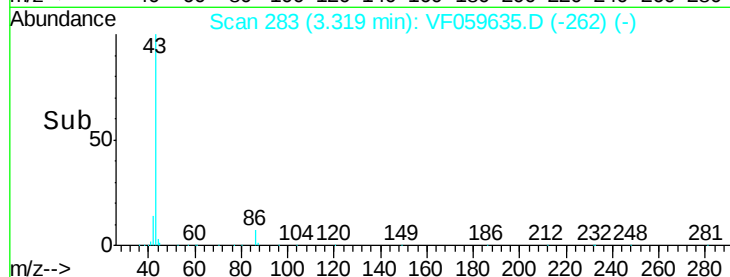
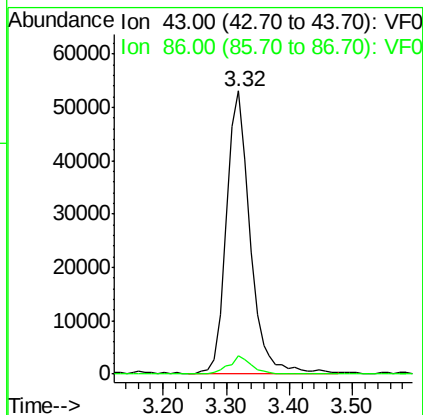
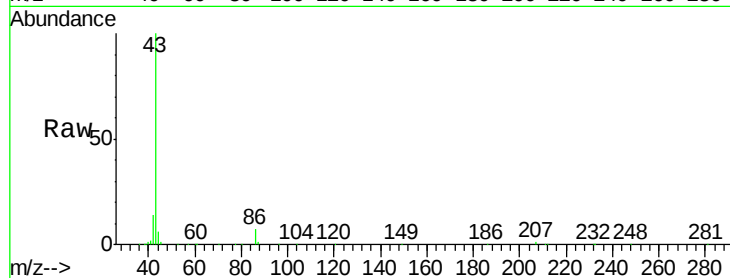
86 6.7 4.5 6.7

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#24

1,1-Dichloroethane

Concen: 10.749 ug/l

RT: 2.98 min Scan# 249

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

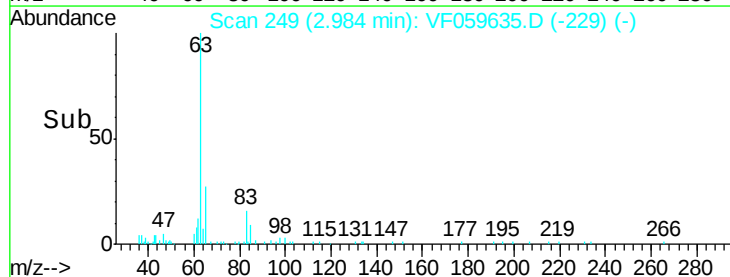
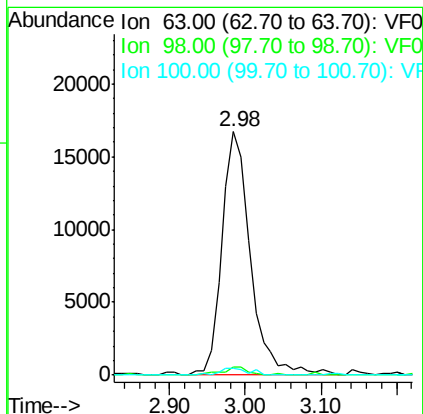
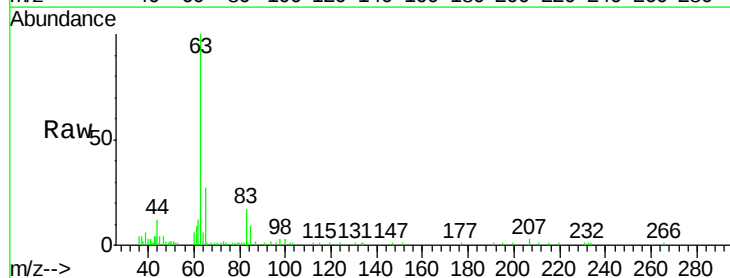
Tgt Ion: 63 Resp: 43819

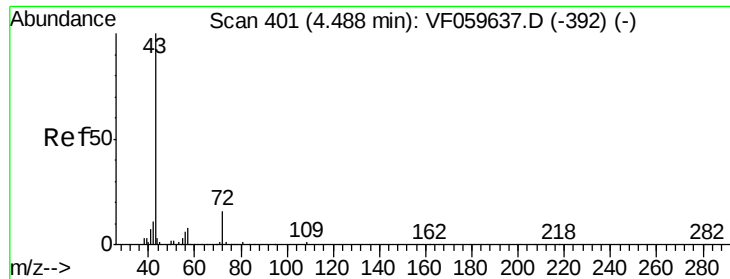
Ion Ratio Lower Upper

63 100

98 3.1 1.8 5.5

100 2.9 1.3 3.9





#25

2-Butanone

Concen: 48.712 ug/l

RT: 4.49 min Scan# 402

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 32534

Ion Ratio Lower Upper

43 100

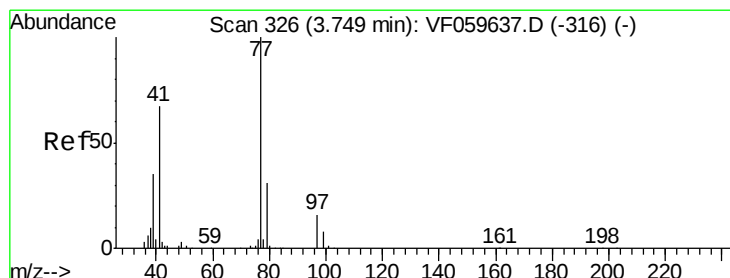
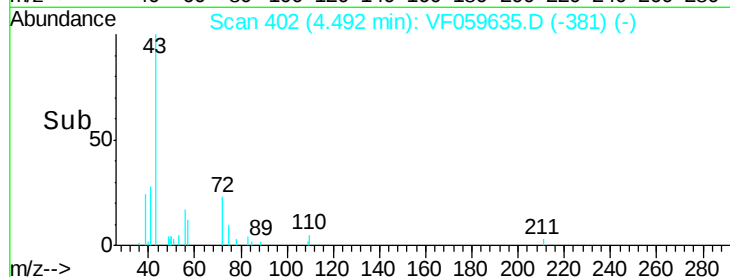
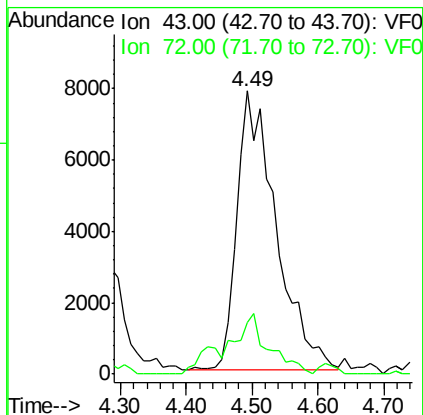
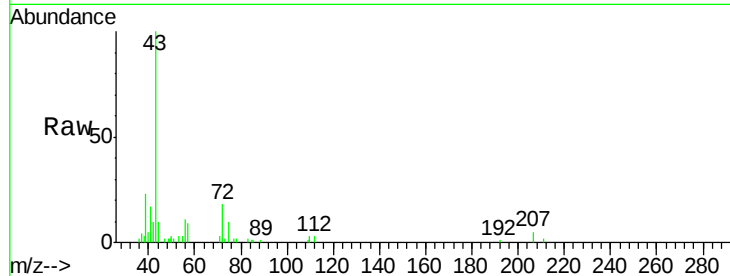
72 18.0 13.5 20.3

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#26

2,2-Dichloropropane

Concen: 10.850 ug/l

RT: 3.74 min Scan# 326

Delta R.T. -0.01 min

Lab File: VF059635.D

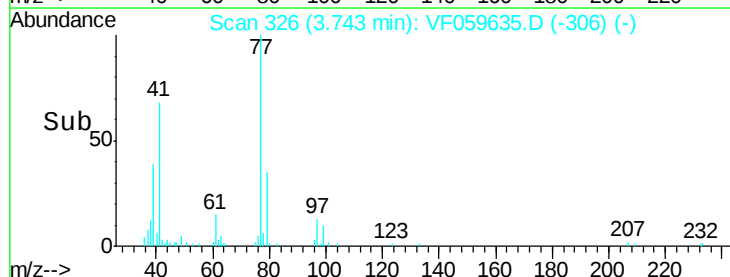
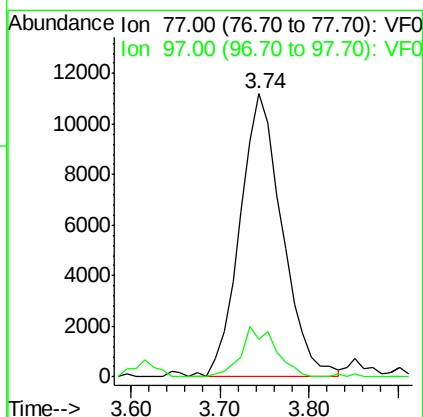
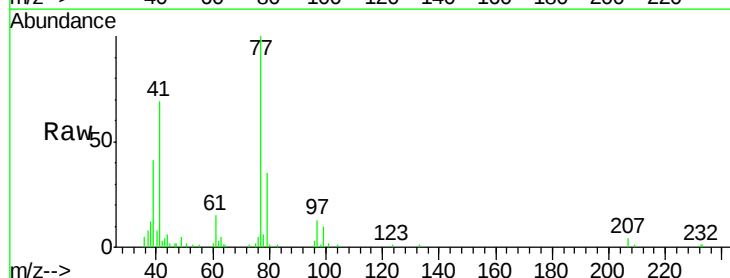
Acq: 24 Jul 2018 16:35

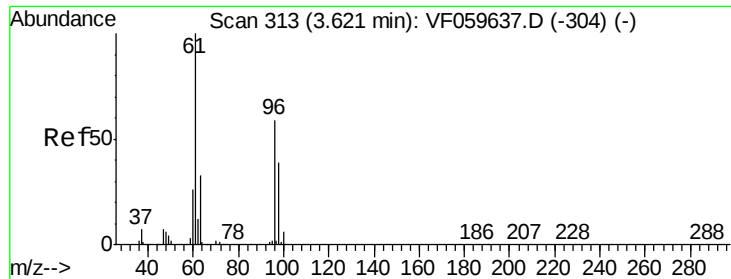
Tgt Ion: 77 Resp: 36823

Ion Ratio Lower Upper

77 100

97 13.2 7.8 23.3





#27

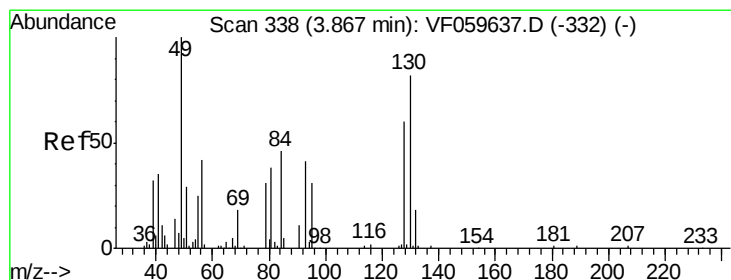
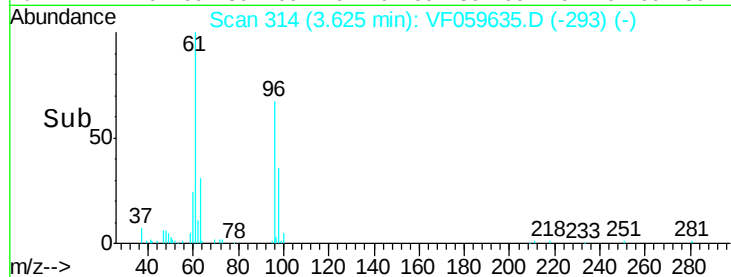
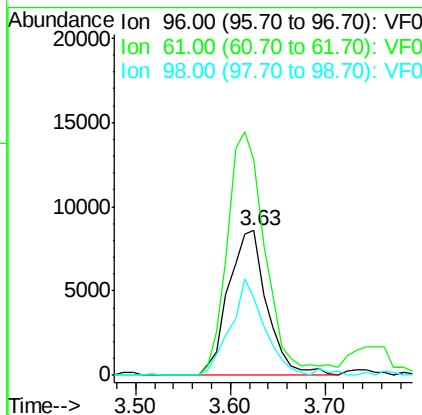
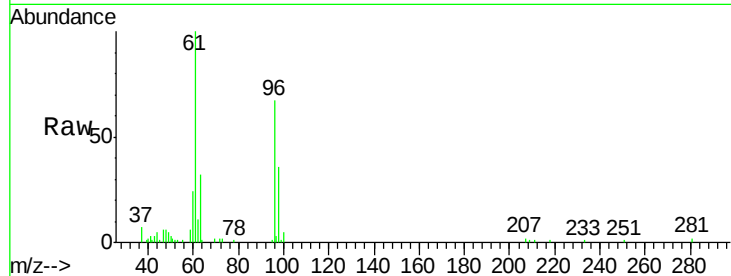
cis-1,2-Dichloroethene
Concen: 11.951 ug/l
RT: 3.63 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.5	0.0	337.4
98	55.6	0.0	132.8

Manual Integrations
APPROVED

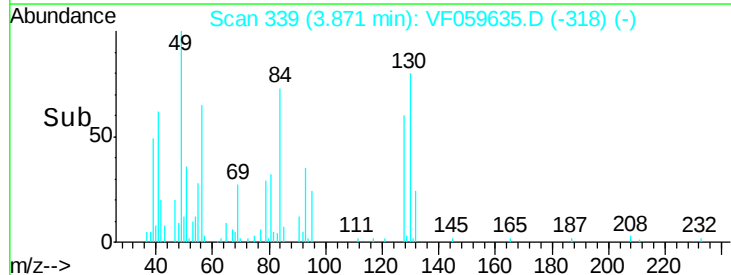
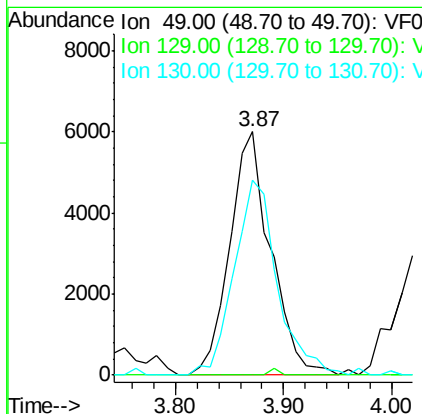
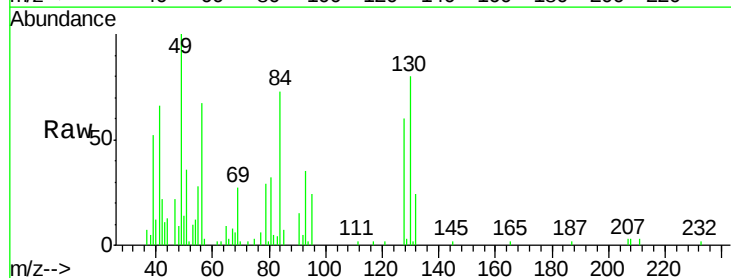
apatel
7/25/2018 2:03:16 PM

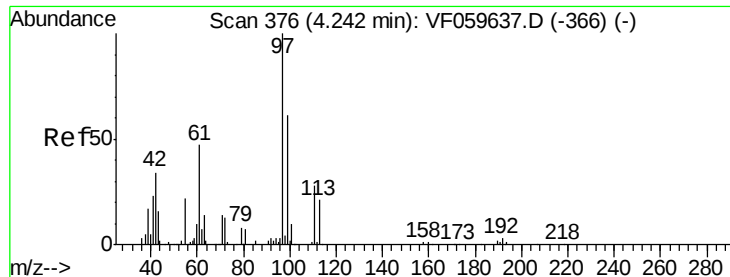


#28

Bromochloromethane
Concen: 10.552 ug/l
RT: 3.87 min Scan# 339
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	80.2	65.0	97.4





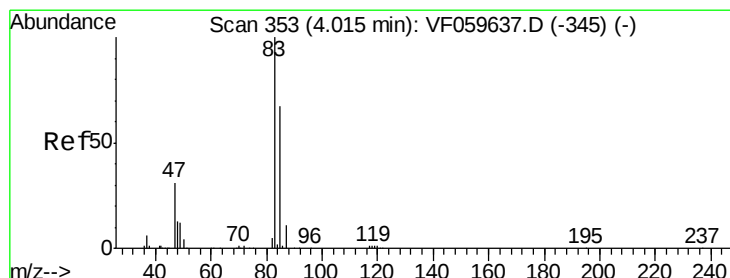
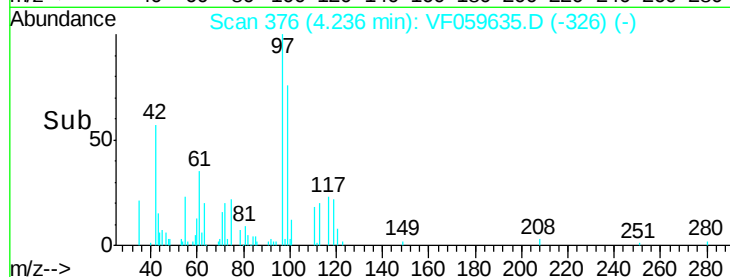
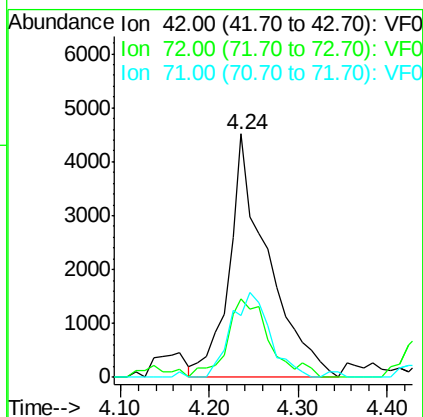
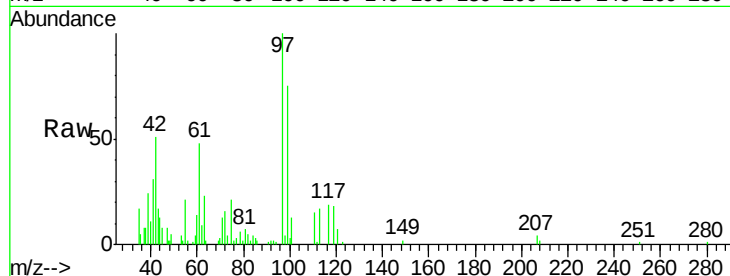
#29
Tetrahydrofuran
Concen: 50.006 ug/l
RT: 4.24 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	35.3		30.0	45.0
71	35.2		28.6	42.8

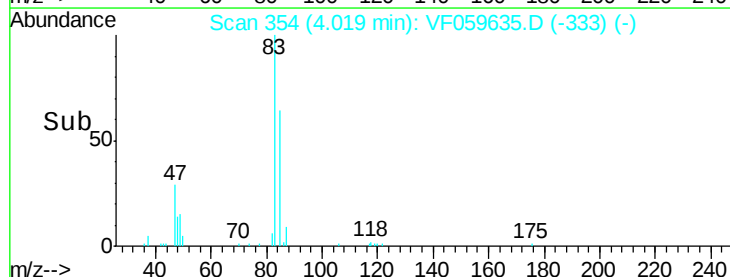
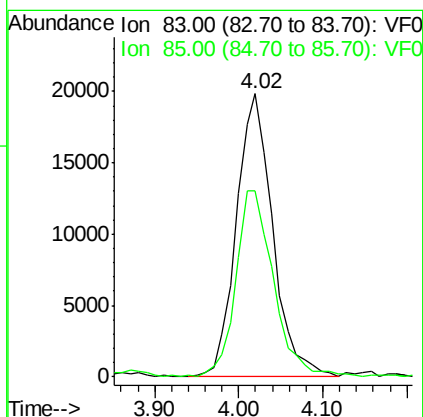
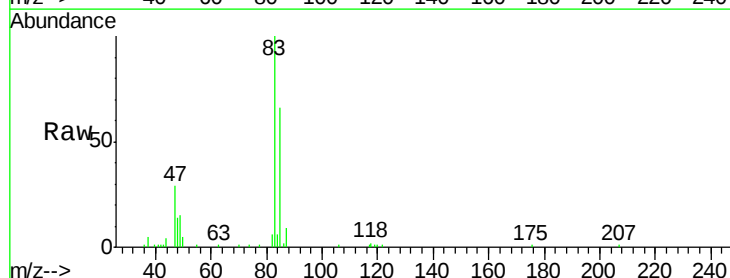
Manual Integrations
APPROVED

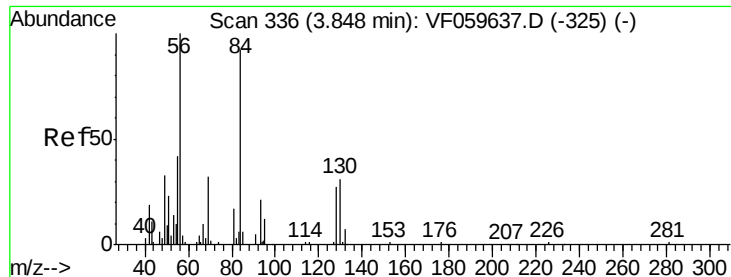
apatel
7/25/2018 2:03:16 PM



#30
Chloroform
Concen: 10.643 ug/l
RT: 4.02 min Scan# 354
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	65.8		53.8	80.8





#31

Cyclohexane

Concen: 11.323 ug/l

RT: 3.84 min Scan# 336

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

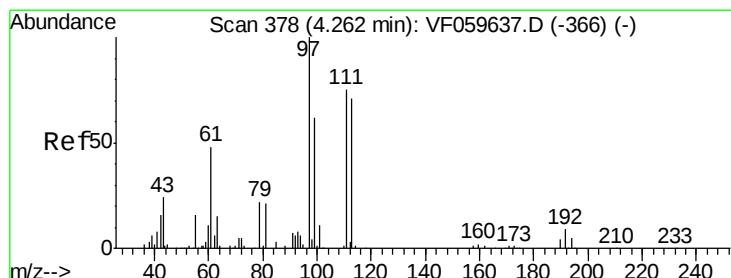
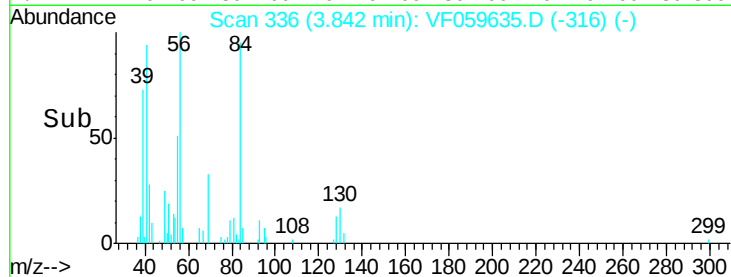
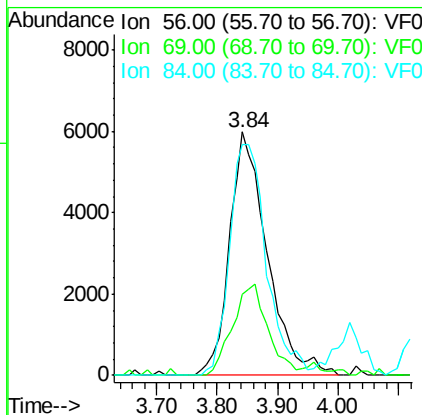
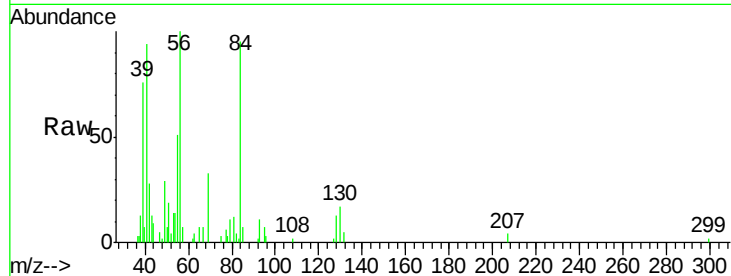
ClientSampleId :

VSTDIC010

Tot Ion:	56	Resp:	25877
Ion	Ratio	Lower	Upper
56	100		
69	33.3	26.0	39.0
84	94.6	73.5	110.3

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#32

1,1,1-Trichloroethane

Concen: 10.257 ug/l

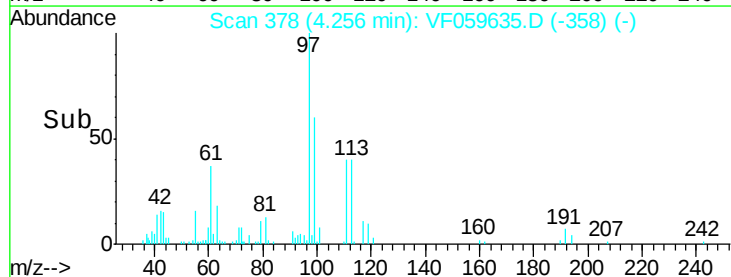
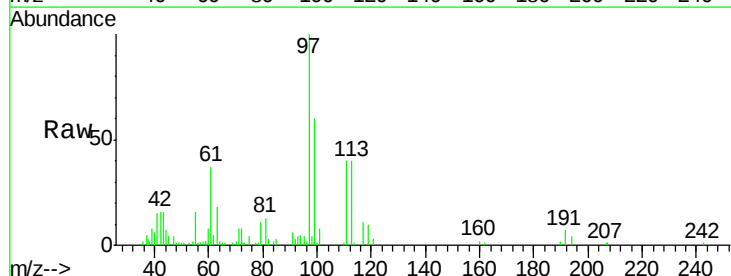
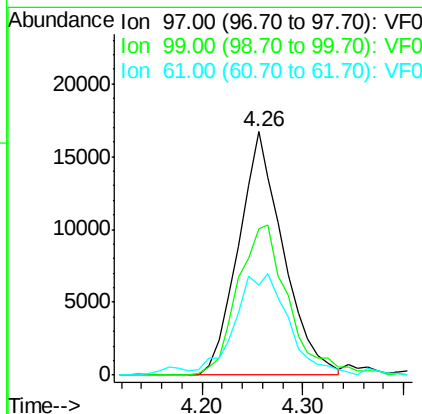
RT: 4.26 min Scan# 378

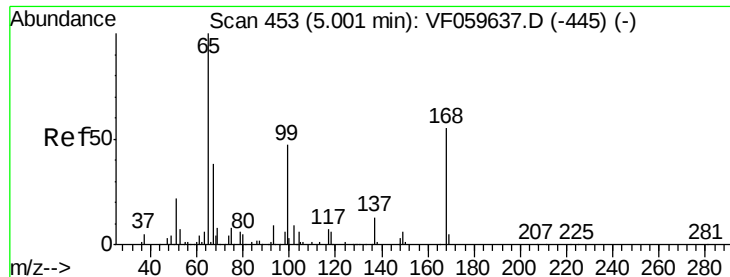
Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	97	Resp:	51630
Ion	Ratio	Lower	Upper
97	100		
99	60.0	49.8	74.6
61	36.9	38.9	58.3#





#33

1,2-Dichloroethane-d4

Concen: 8.602 ug/l

RT: 5.01 min Scan# 454

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 65 Resp: 32751

Ion Ratio Lower Upper

65 100

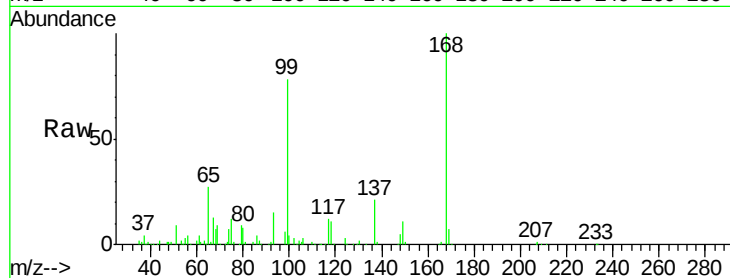
67 47.4 0.0 86.6

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.01

15000

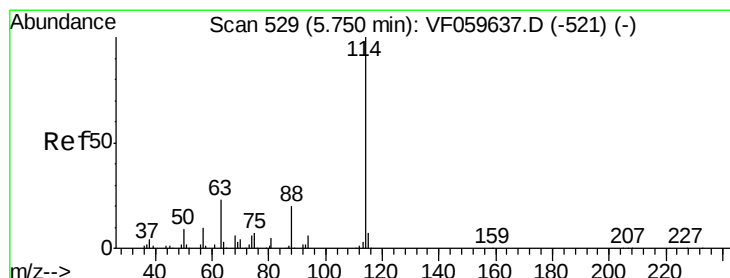
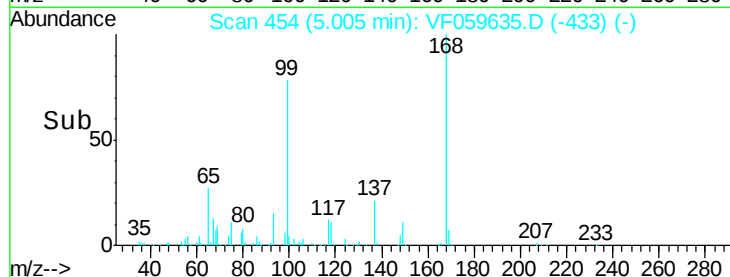
10000

5000

0

4.90 4.95 5.00 5.05 5.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 530

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

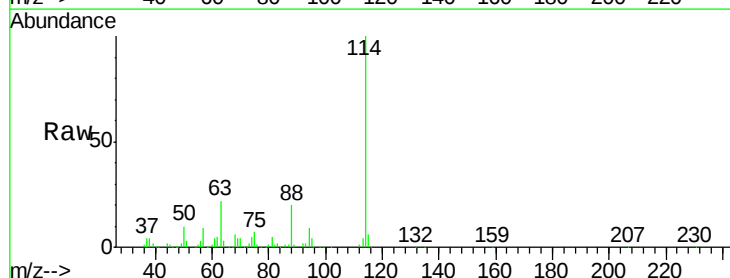
Tgt Ion:114 Resp: 336642

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.6

88 20.4 0.0 40.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

5.75

150000

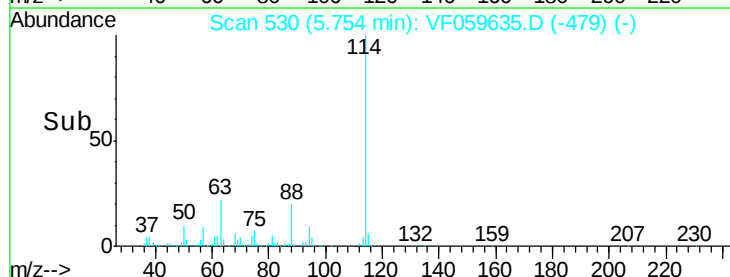
100000

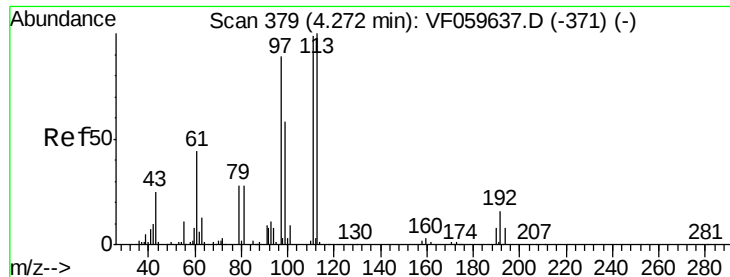
50000

0

5.60 5.70 5.80 5.90

Time-->





#35

Dibromofluoromethane

Concen: 10.343 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

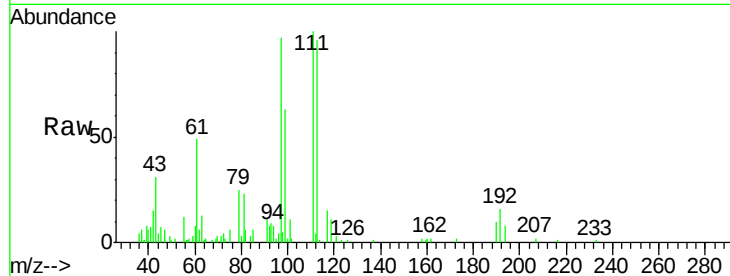
ClientSampleId :

VSTDIC010

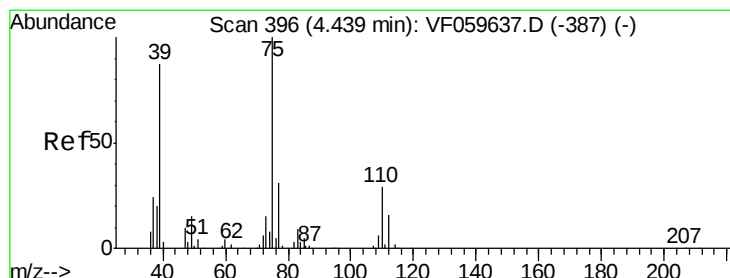
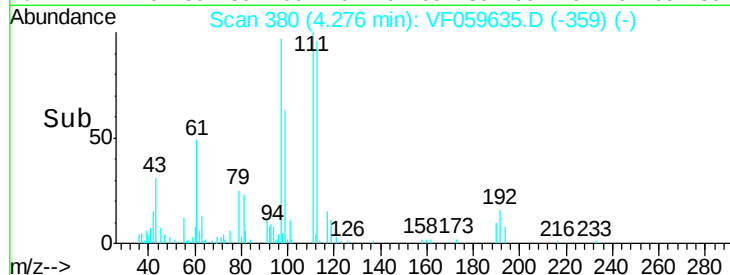
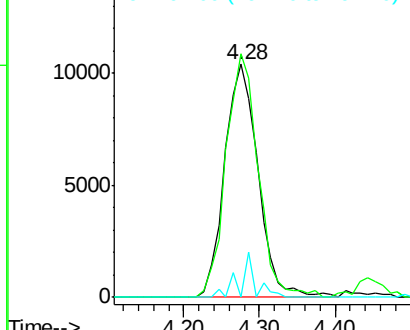
Tot Ion:	113	Resp:	31857
Ion Ratio	Lower	Upper	
113	100		
111	103.2	79.3	118.9
192	0.0	13.4	20.2#

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 11.478 ug/l

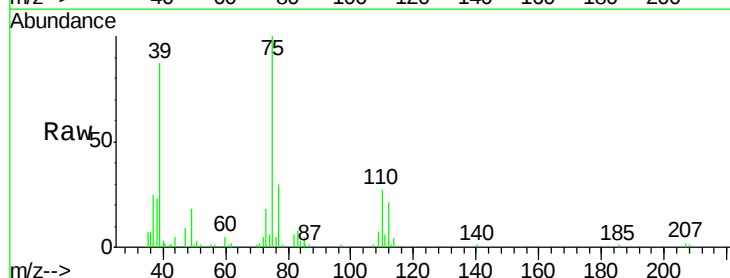
RT: 4.44 min Scan# 397

Delta R.T. 0.00 min

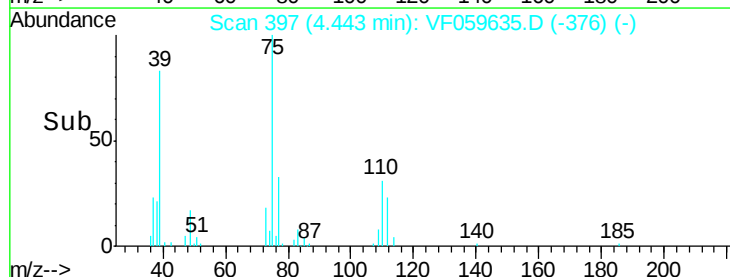
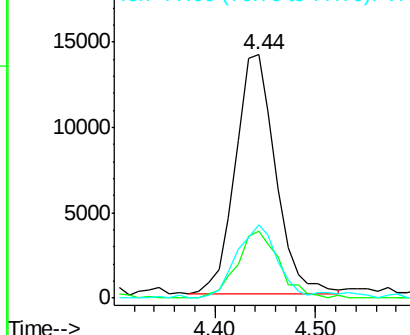
Lab File: VF059635.D

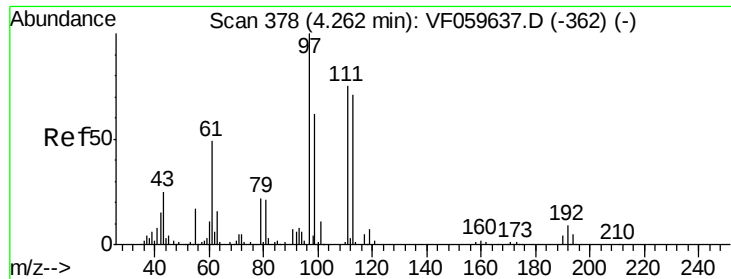
Acq: 24 Jul 2018 16:35

Tgt Ion:	75	Resp:	38856
Ion Ratio	Lower	Upper	
75	100		
110	27.4	14.6	43.8
77	30.1	24.4	36.6



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





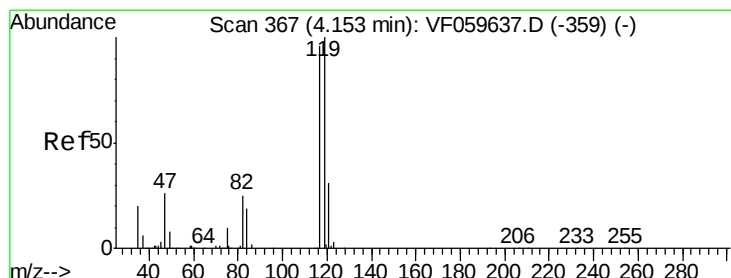
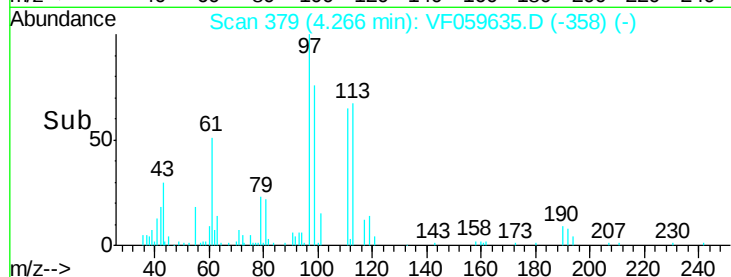
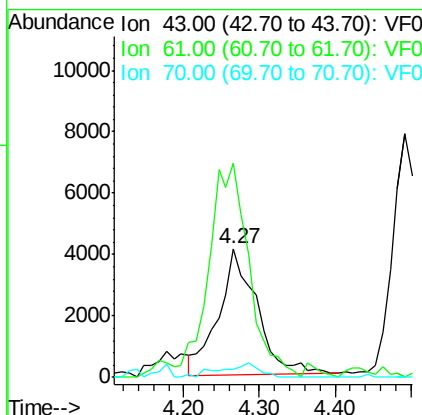
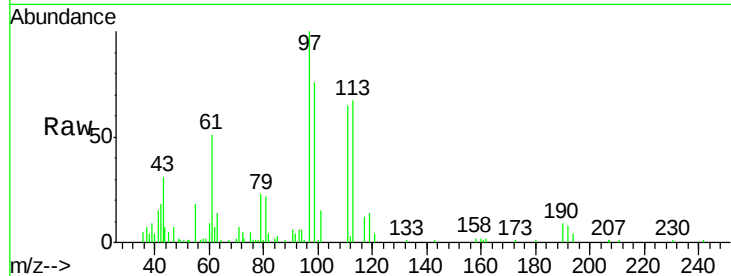
#37
Ethyl Acetate
Concen: 10.885 ug/l
RT: 4.27 min Scan# 379
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	43	61	70	Ratio	Lower	Upper
14501	100	166.3	6.3			
		156.6	7.3			
		234.8	10.9			

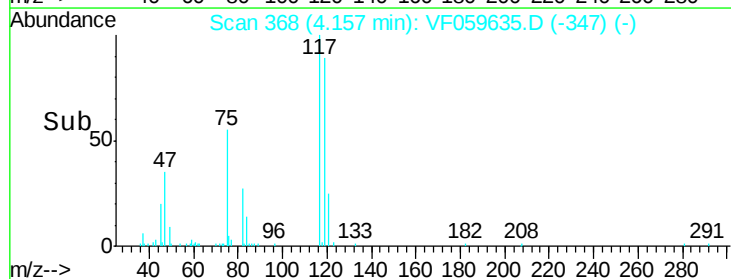
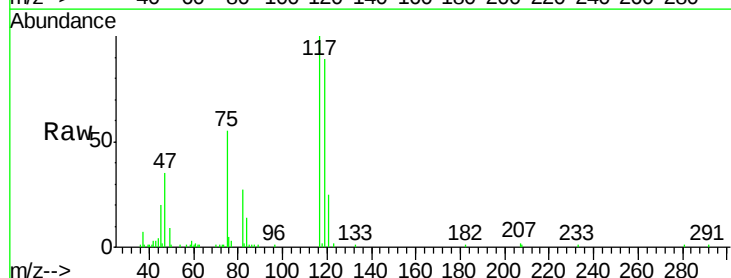
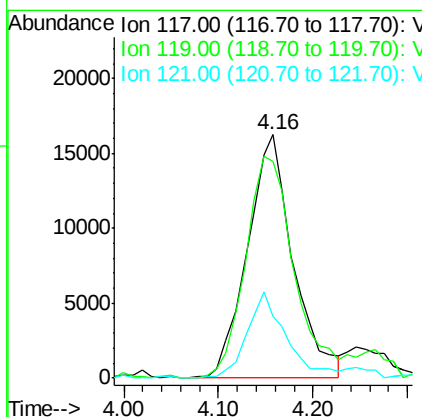
Manual Integrations
APPROVED

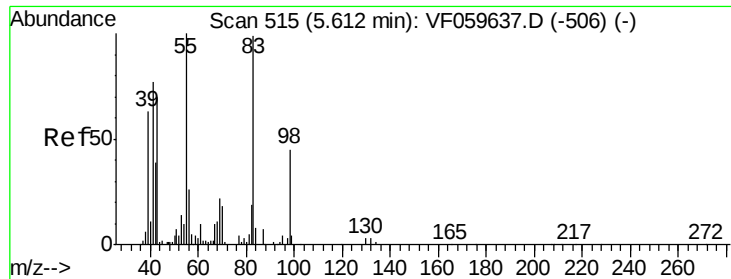
apatel
7/25/2018 2:03:16 PM



#38
Carbon Tetrachloride
Concen: 10.647 ug/l
RT: 4.16 min Scan# 368
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	117	119	121	Ratio	Lower	Upper
54560	100	89.0	25.3			
		83.0	26.2			
		124.6	39.4			





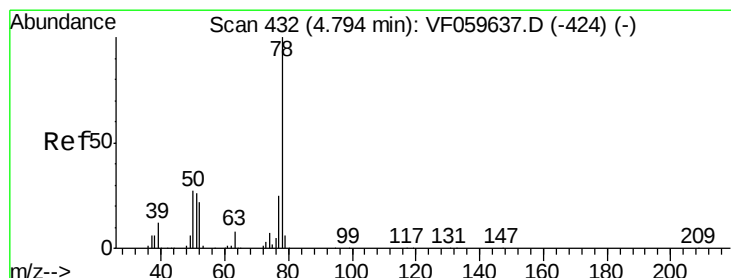
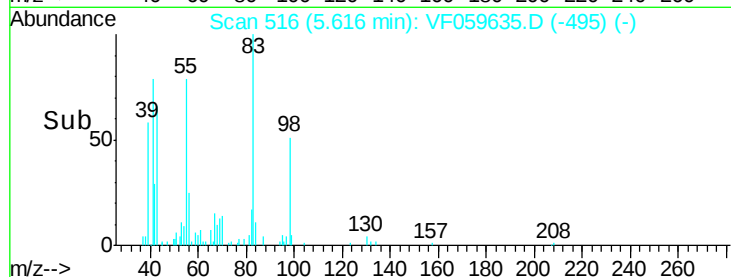
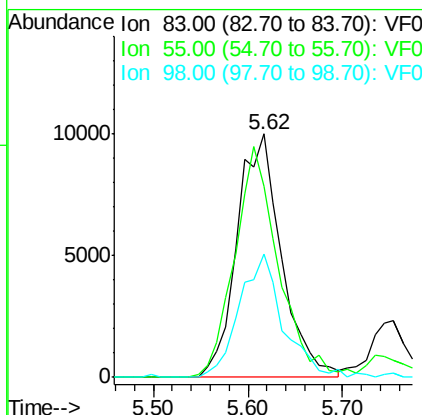
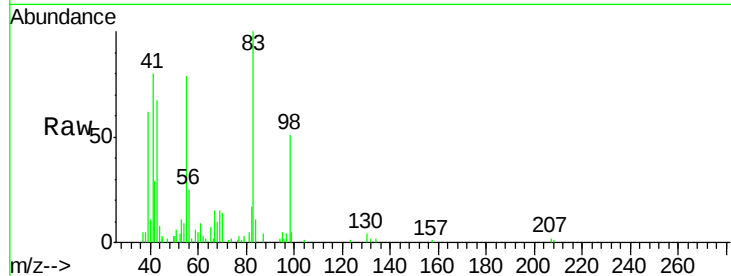
#39
Methvlcvclohexane
Concen: 11.931 ug/l
RT: 5.62 min Scan# 516
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.7	81.5	122.3#
98	50.5	36.7	55.1

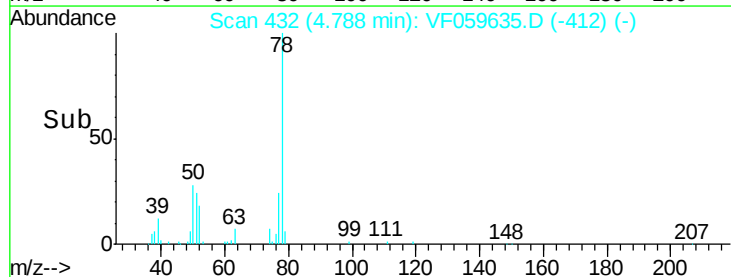
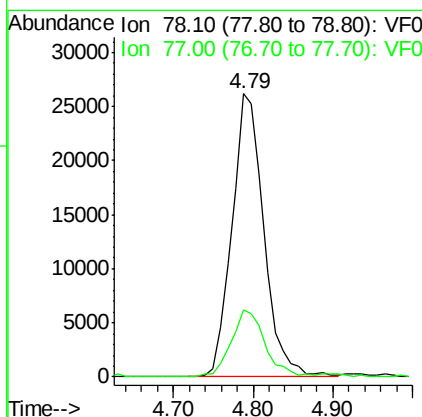
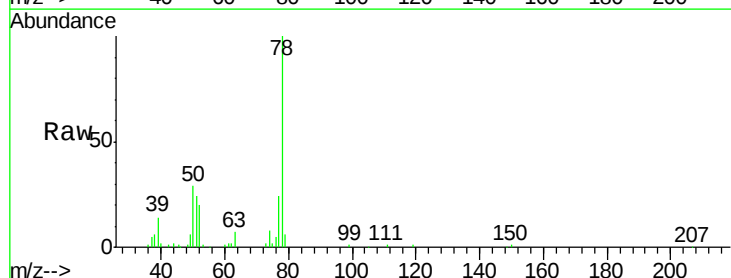
Manual Integrations
APPROVED

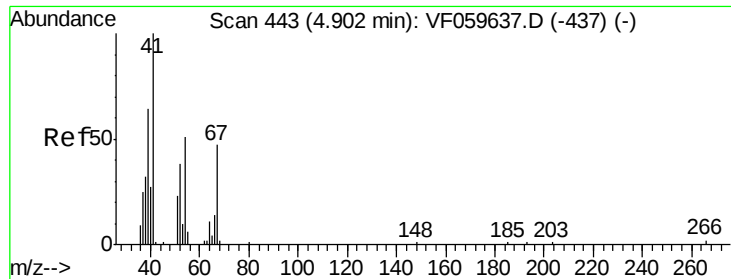
apatel
7/25/2018 2:03:16 PM



#40
Benzene
Concen: 11.818 ug/l
RT: 4.79 min Scan# 432
Delta R.T. -0.01 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.8	29.6





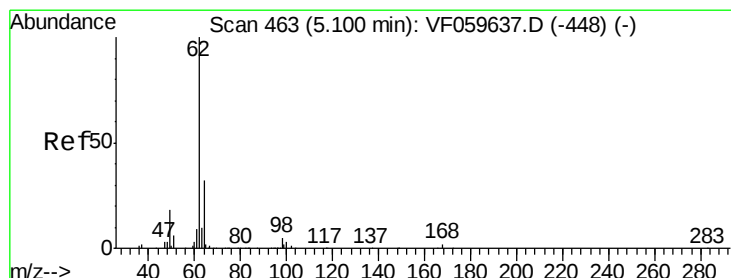
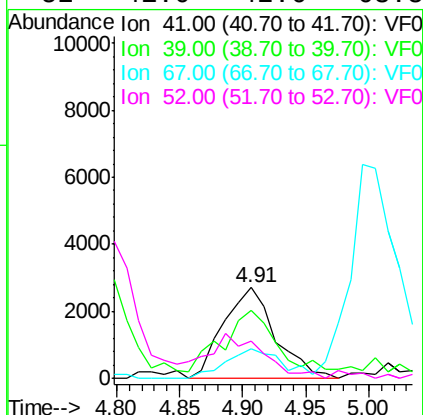
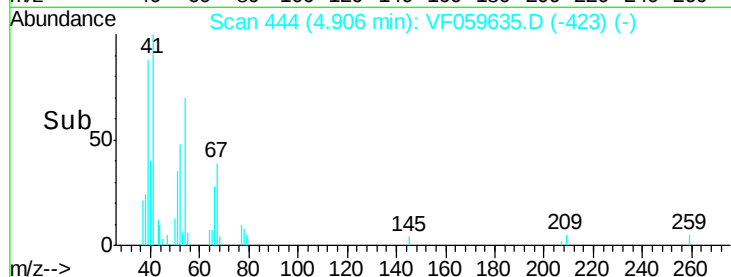
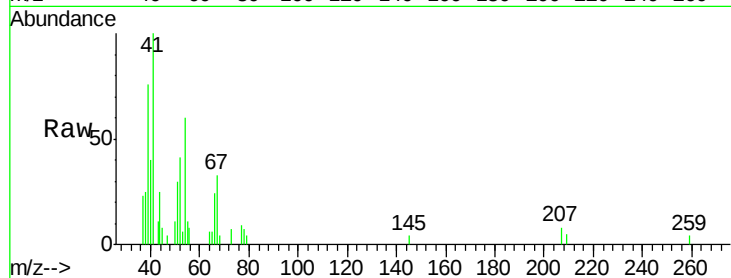
#41
Methacrylonitrile
Concen: 11.734 ug/l
RT: 4.91 min Scan# 444
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
41	100		
39	75.9	56.9	85.3
67	33.2	36.6	54.8#
52	41.0	42.6	63.8#

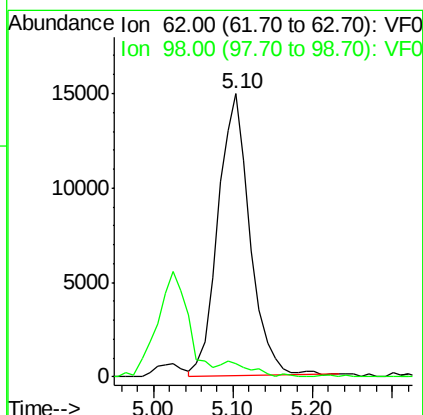
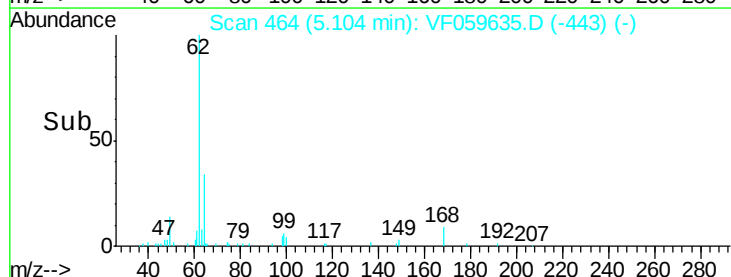
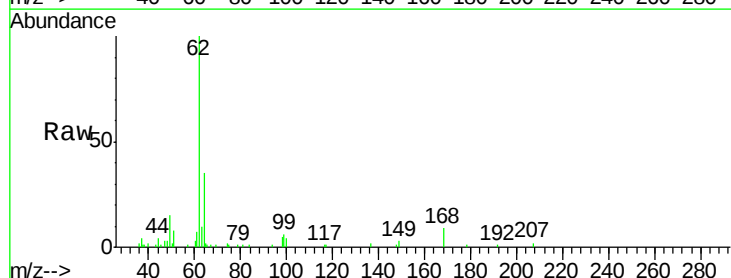
Manual Integrations
APPROVED

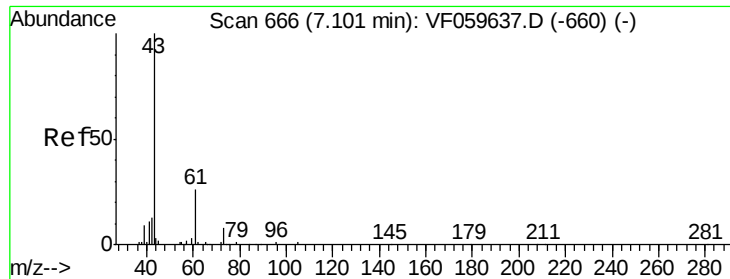
apatel
7/25/2018 2:03:16 PM



#42
1,2-Dichloroethane
Concen: 10.266 ug/l
RT: 5.10 min Scan# 464
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	4.6	0.0	10.6





#43

Isopropyl Acetate

Concen: 9.191 ug/l

RT: 7.09 min Scan# 666

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

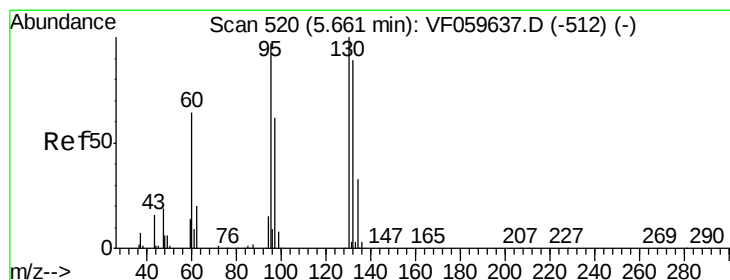
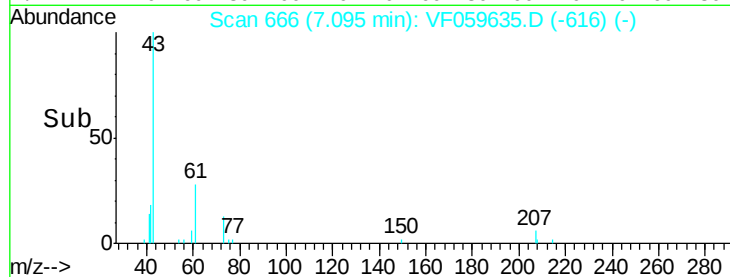
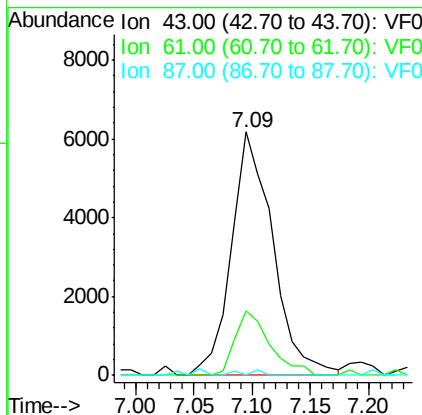
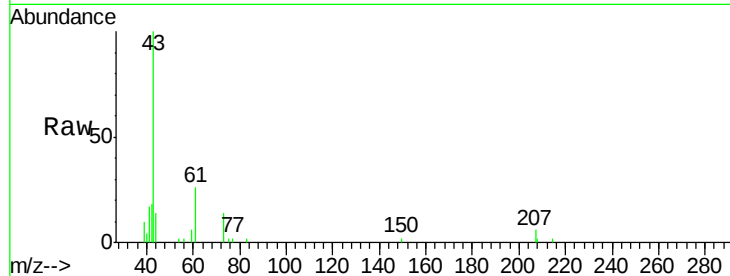
ClientSampleId :

VSTDIC010

Tot Ion:	43	Resp:	15248
Ion	Ratio	Lower	Upper
43	100		
61	26.2	20.5	30.7
87	0.0	0.4	0.6#

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#44

Trichloroethene

Concen: 11.739 ug/l

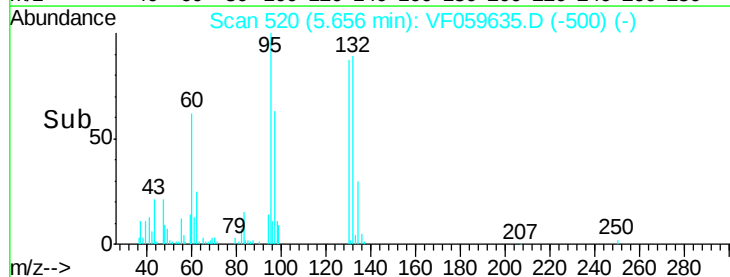
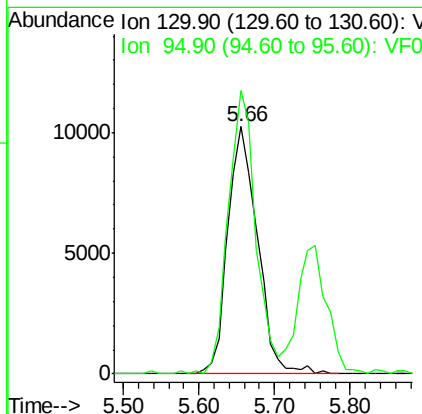
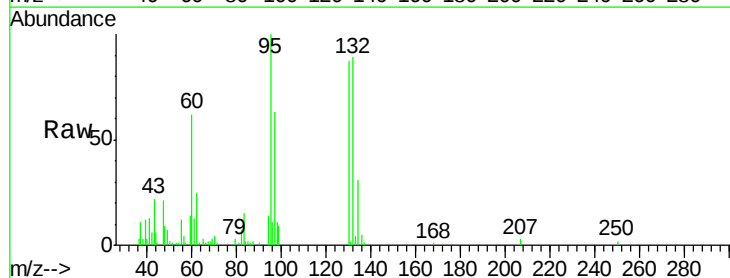
RT: 5.66 min Scan# 520

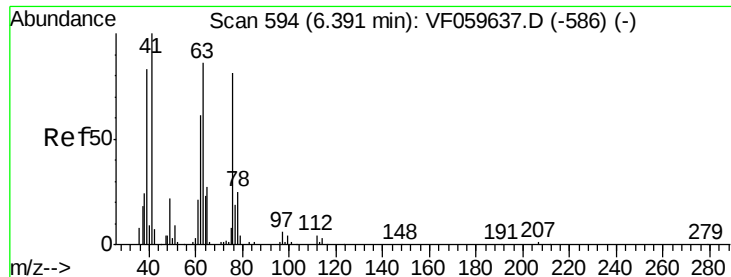
Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	130	Resp:	27721
Ion	Ratio	Lower	Upper
130	100		
95	114.6	0.0	193.4





#45

1,2-Dichloropropane

Concen: 10.808 ug/l

RT: 6.38 min Scan# 593

Delta R.T. -0.02 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 63 Resp: 17886

Ion Ratio Lower Upper

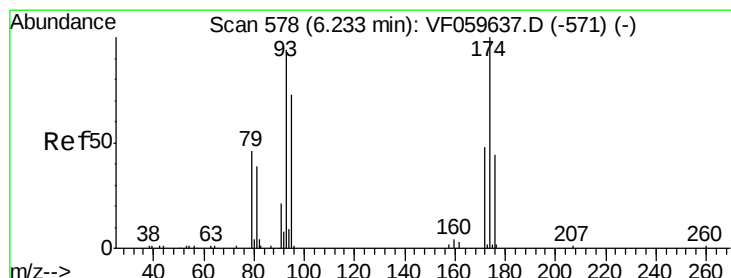
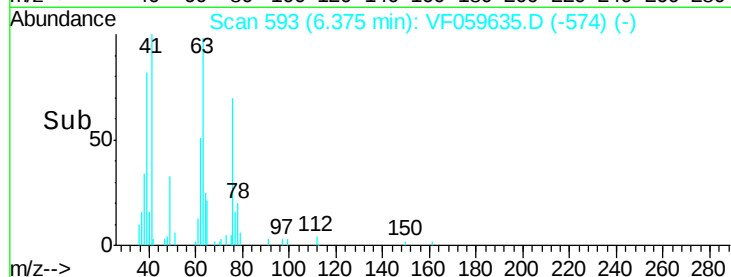
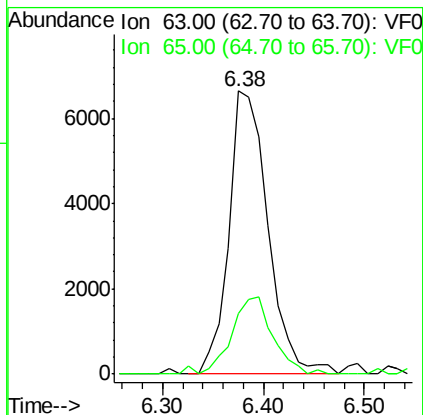
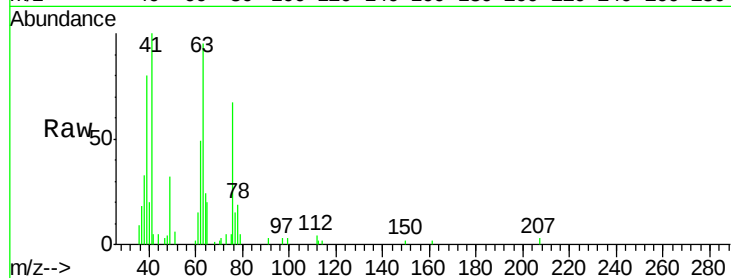
63 100

65 21.5 25.1 37.7#

Manual Integrations
APPROVED

apatel

7/25/2018 2:03:16 PM



#46

Dibromomethane

Concen: 11.622 ug/l

RT: 6.24 min Scan# 579

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

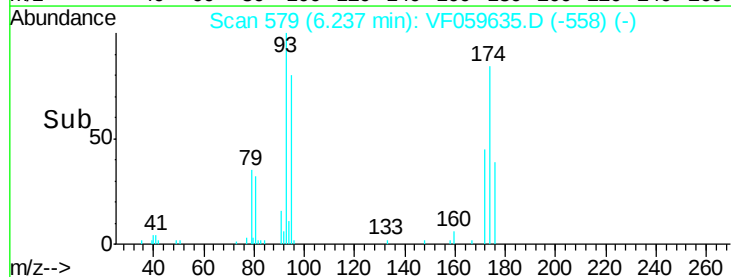
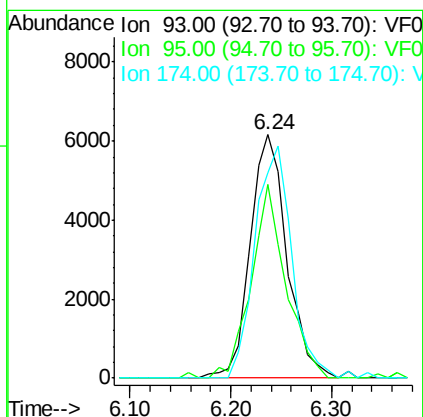
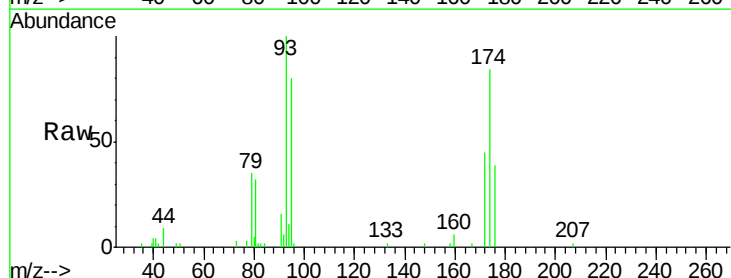
Tgt Ion: 93 Resp: 15634

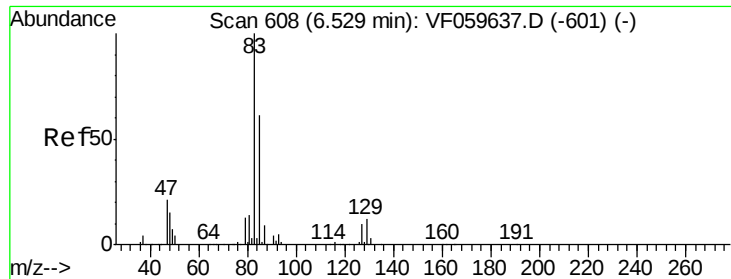
Ion Ratio Lower Upper

93 100

95 79.7 63.1 94.7

174 84.2 85.3 127.9#





#47

Bromodichloromethane

Concen: 10.026 ug/l

RT: 6.53 min Scan# 609

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

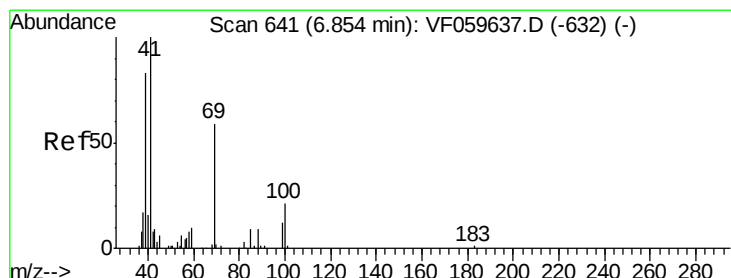
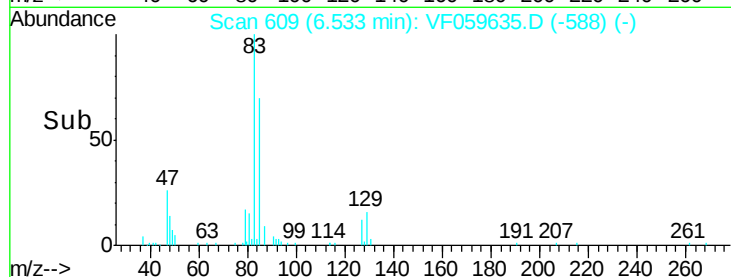
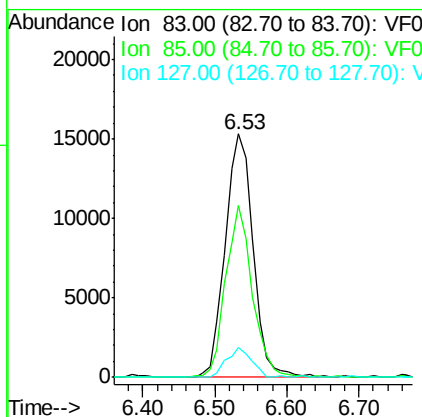
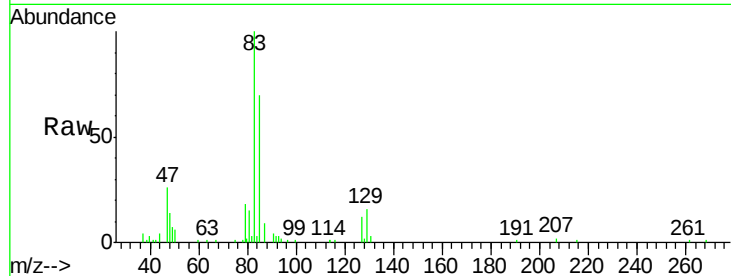
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	41300
Ion	Ratio	Lower	Upper
83	100		
85	70.5	48.6	72.8
127	12.3	7.7	11.5#

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#48

Methyl methacrylate

Concen: 9.162 ug/l

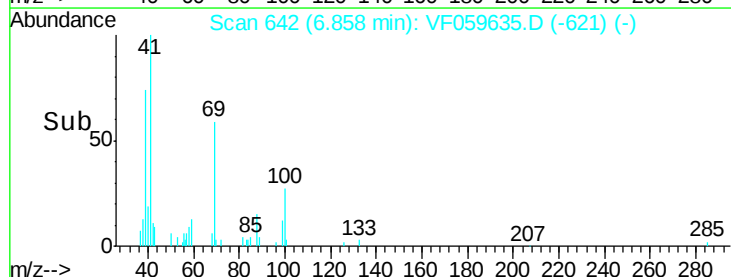
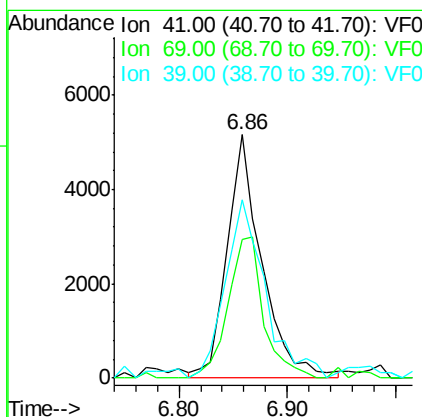
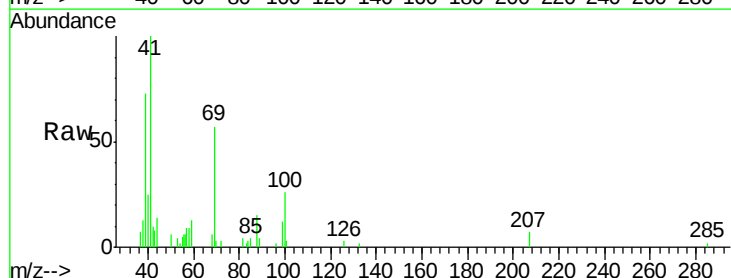
RT: 6.86 min Scan# 642

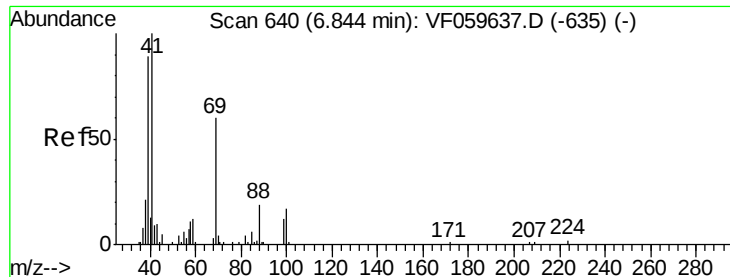
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	41	Resp:	11573
Ion	Ratio	Lower	Upper
41	100		
69	56.9	47.5	71.3
39	73.5	67.0	100.6





#49

1,4-Dioxane

Concen: 204.641 ug/l

RT: 6.86 min Scan# 642

Delta R.T. 0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

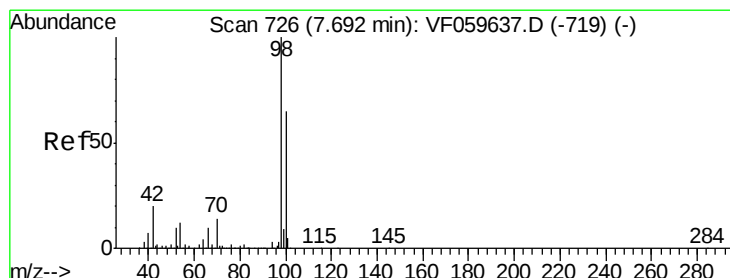
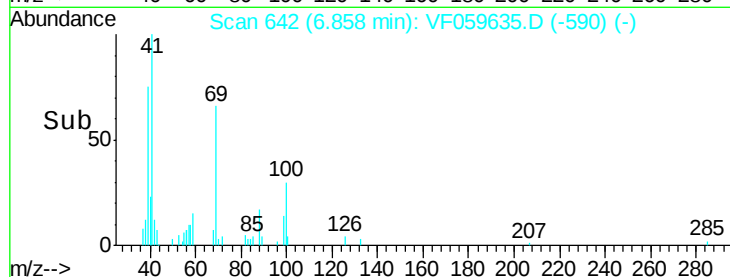
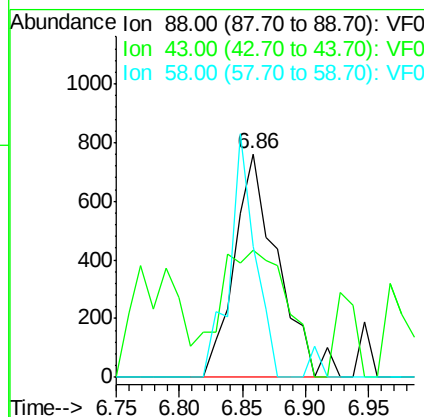
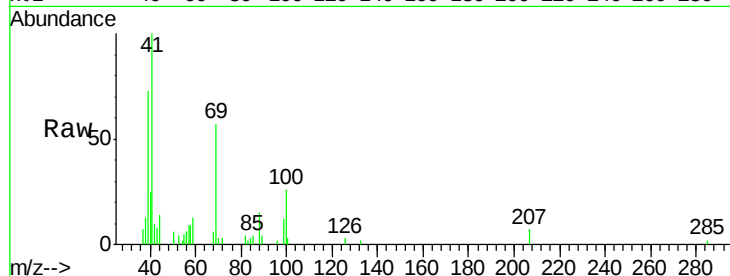
ClientSampleId :

VSTDIC010

Tot Ion:	88	Resp:	1817
Ion	Ratio	Lower	Upper
88	100		
43	56.9	45.3	67.9
58	58.5	47.7	71.5

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#50

Toluene-d8

Concen: 9.480 ug/l

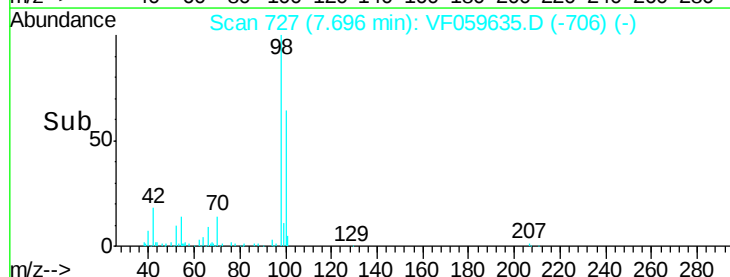
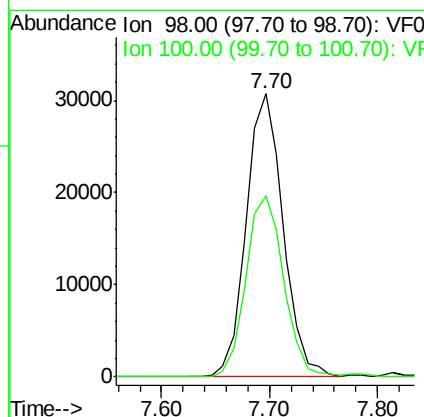
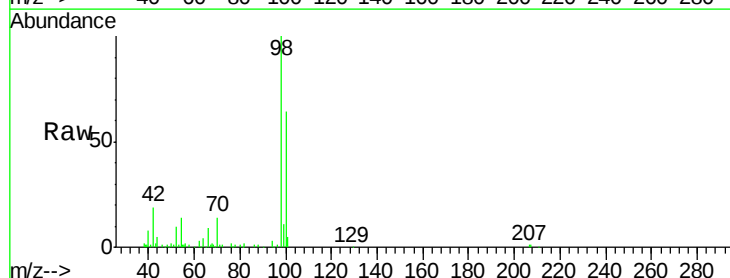
RT: 7.70 min Scan# 727

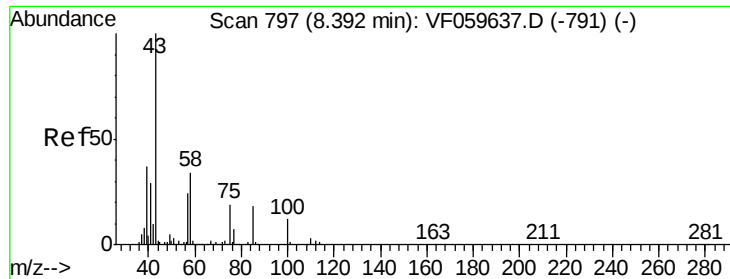
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	98	Resp:	73096
Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 48.040 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 59620

Ion Ratio Lower Upper

43 100

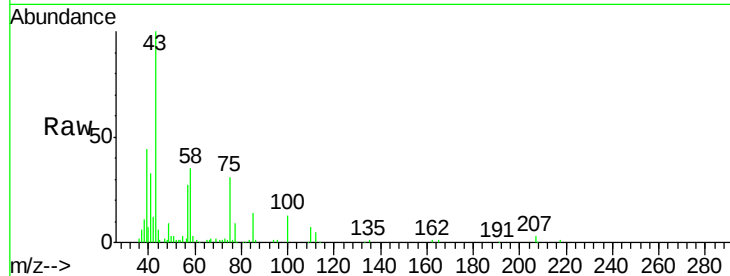
58 34.7 27.3 40.9

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

25000

20000

15000

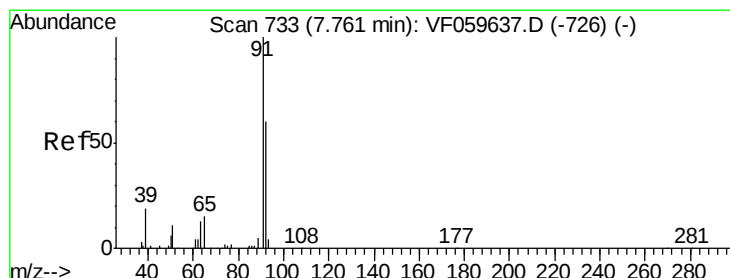
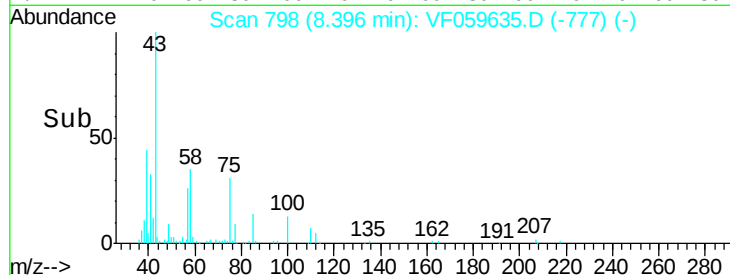
10000

5000

0

8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 11.016 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059635.D

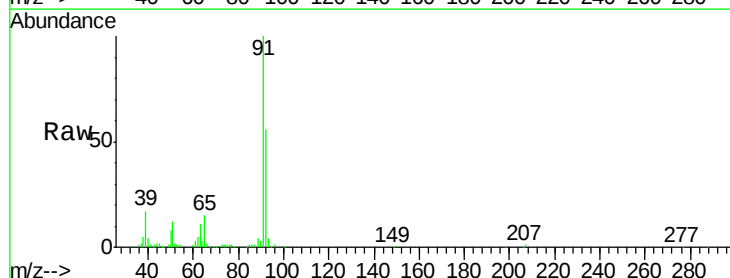
Acq: 24 Jul 2018 16:35

Tgt Ion: 92 Resp: 51561

Ion Ratio Lower Upper

92 100

91 177.6 134.2 201.4



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.77

50000

40000

30000

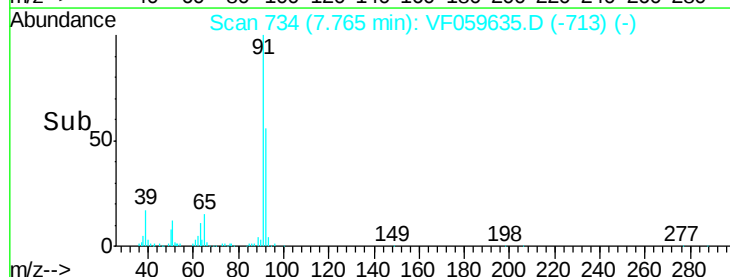
20000

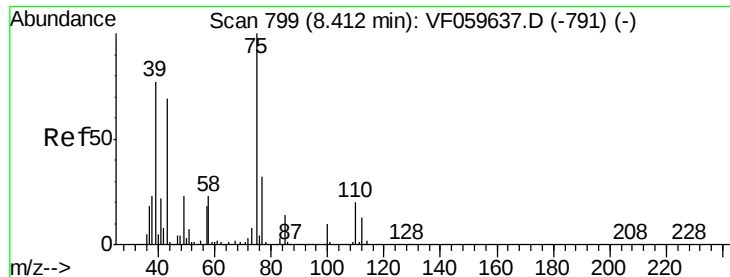
10000

0

7.70 7.80 7.90

Time-->





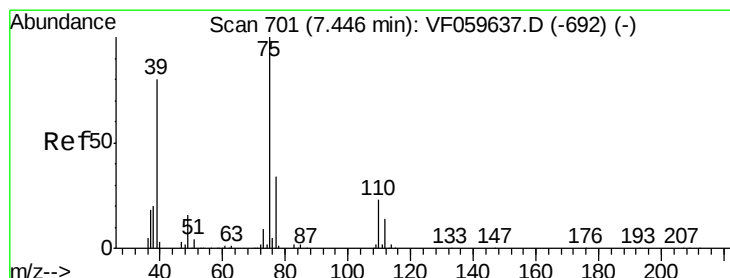
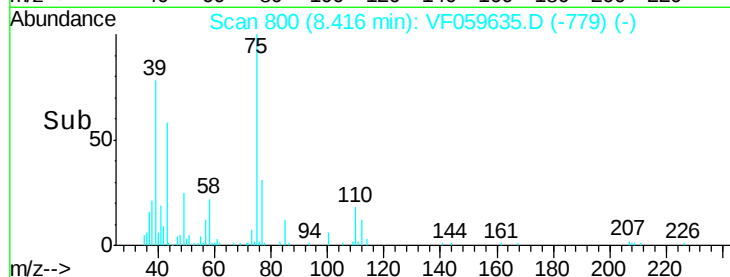
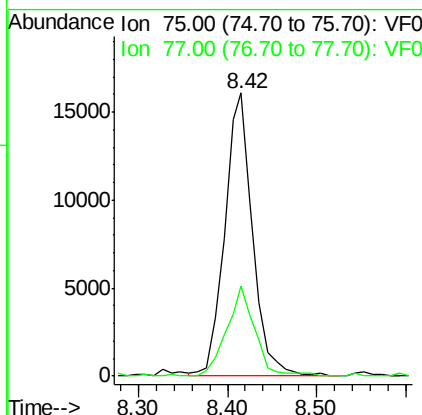
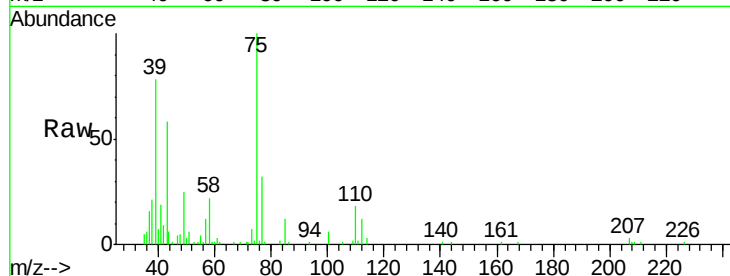
#53
t-1,3-Dichloropropene
Concen: 10.217 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 75 Resp: 35226
Ion Ratio Lower Upper
75 100
77 31.8 25.2 37.8

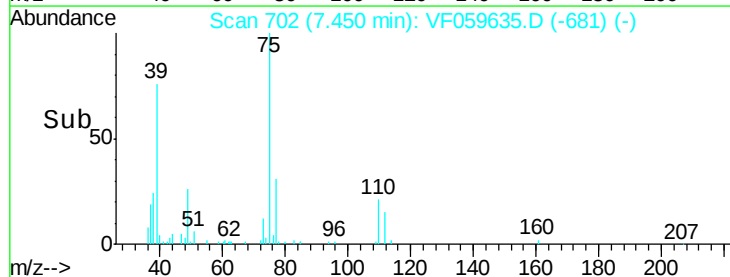
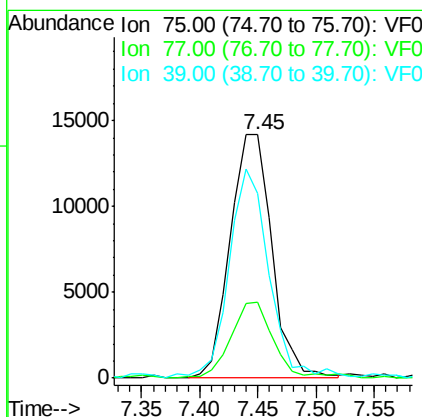
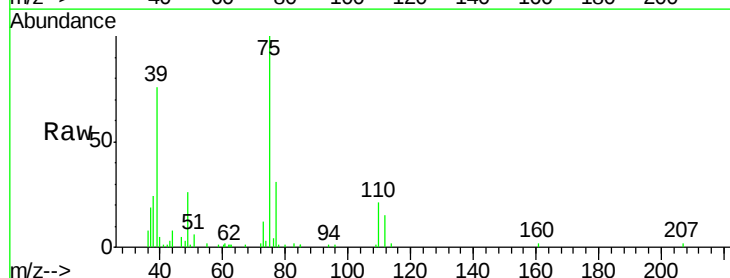
Manual Integrations
APPROVED

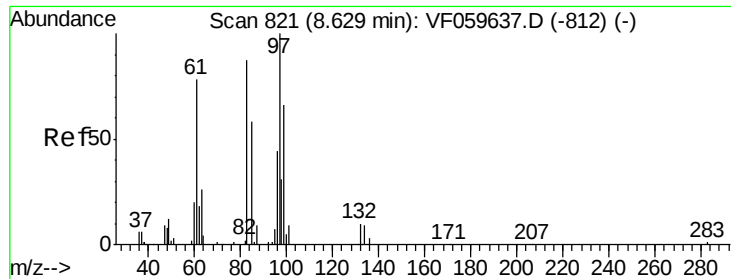
apatel
7/25/2018 2:03:16 PM



#54
cis-1,3-Dichloropropene
Concen: 10.290 ug/l
RT: 7.45 min Scan# 702
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion: 75 Resp: 35345
Ion Ratio Lower Upper
75 100
77 31.1 27.5 41.3
39 75.9 64.4 96.6





#55

1,1,2-Trichloroethane

Concen: 10.368 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

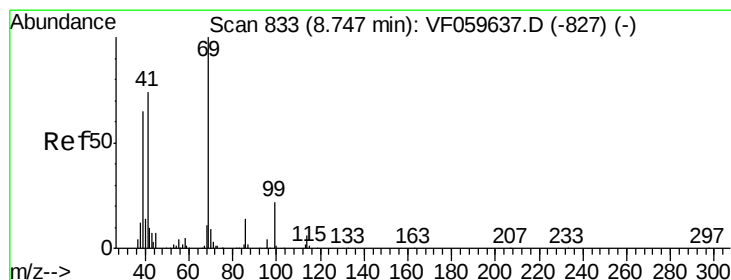
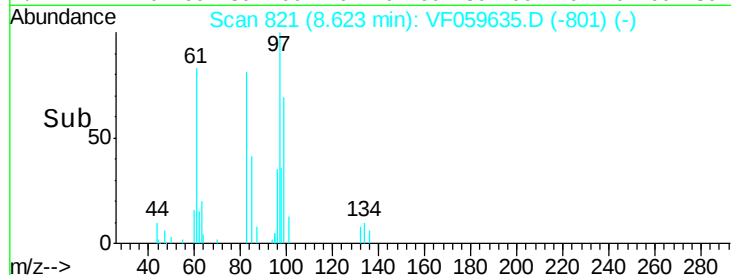
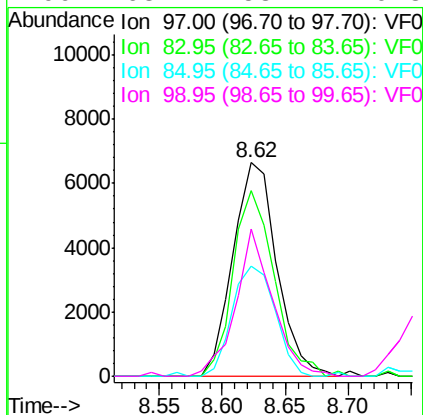
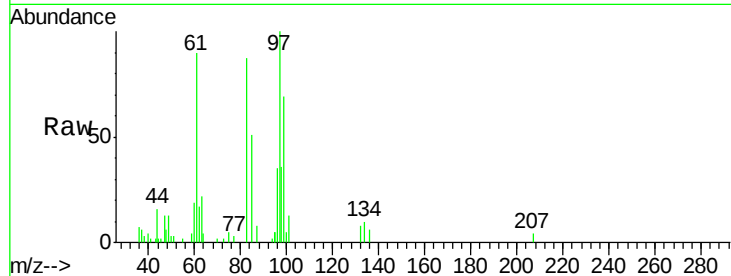
ClientSampleId :

VSTDIC010

Tot Ion:	97	Resp:	16098
Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.5	104.3
85	51.5	46.0	69.0
99	68.7	53.2	79.8

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#56

Ethyl methacrylate

Concen: 9.301 ug/l

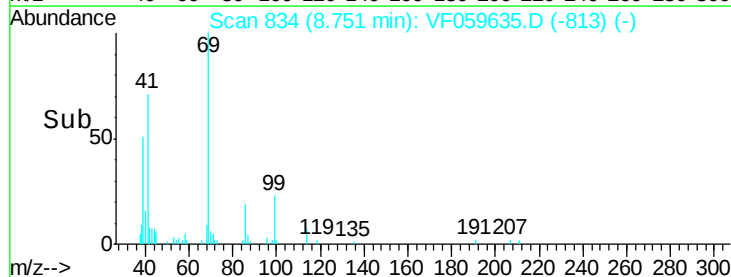
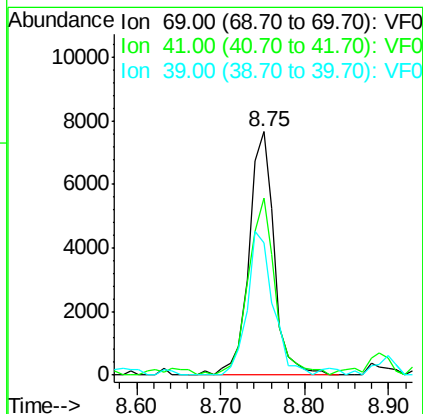
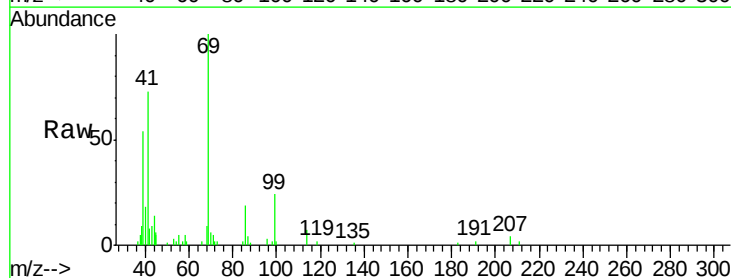
RT: 8.75 min Scan# 834

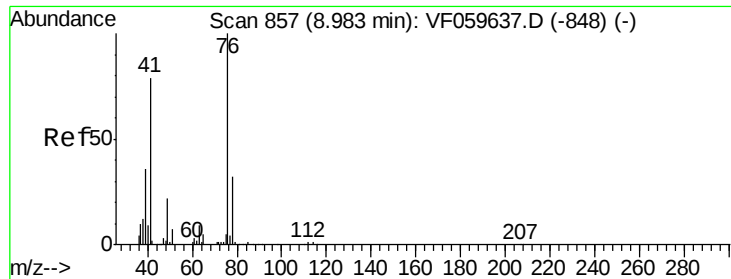
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	69	Resp:	16010
Ion	Ratio	Lower	Upper
69	100		
41	72.7	59.1	88.7
39	54.4	52.4	78.6





#57

1,3-Dichloropropane

Concen: 10.160 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 76 Resp: 27568

Ion Ratio Lower Upper

76 100

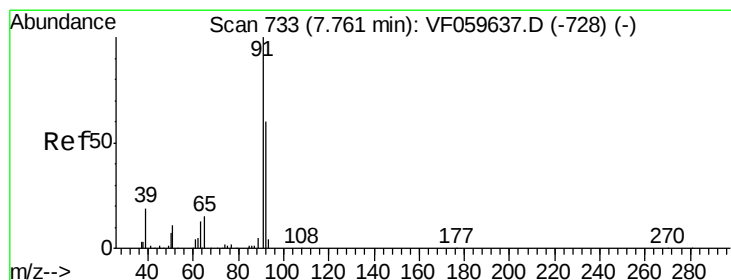
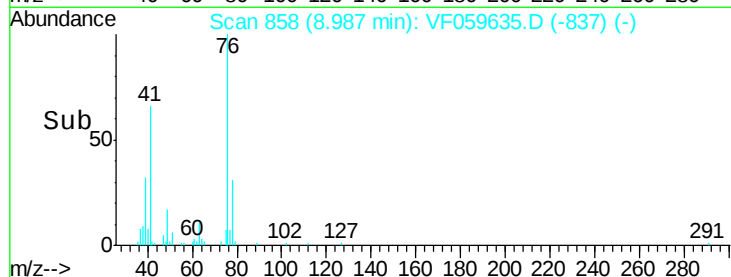
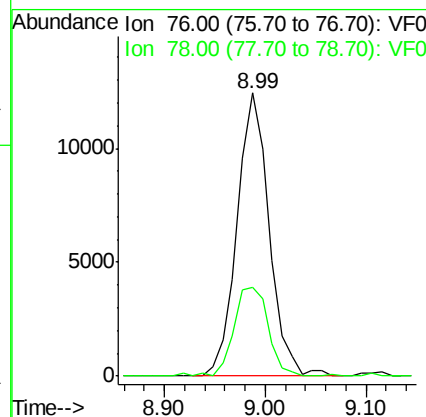
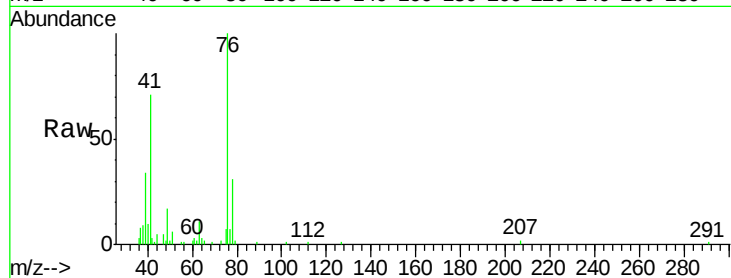
78 31.2 25.5 38.3

Manual Integrations

APPROVED

apatel

7/25/2018 2:03:16 PM



#58

2-Chloroethyl Vinyl ether

Concen: 55.455 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF059635.D

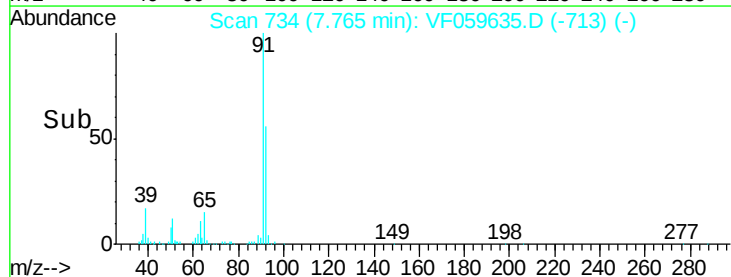
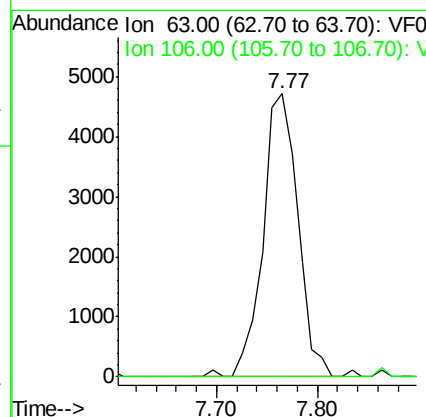
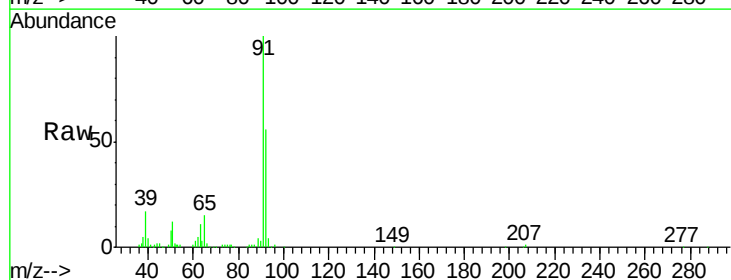
Acq: 24 Jul 2018 16:35

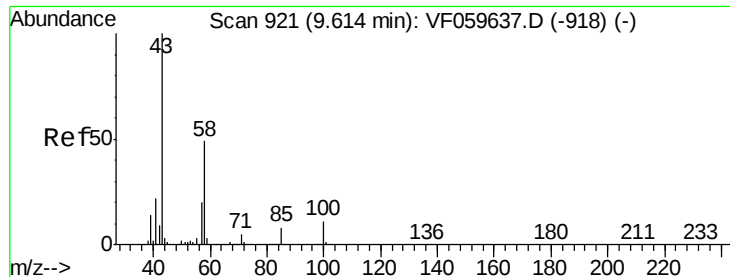
Tgt Ion: 63 Resp: 11330

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0





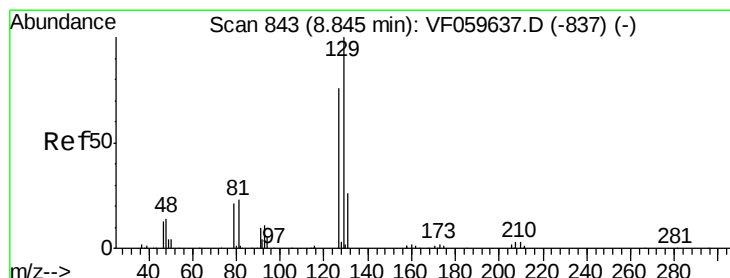
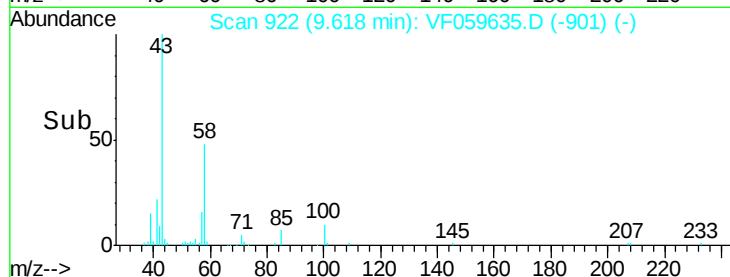
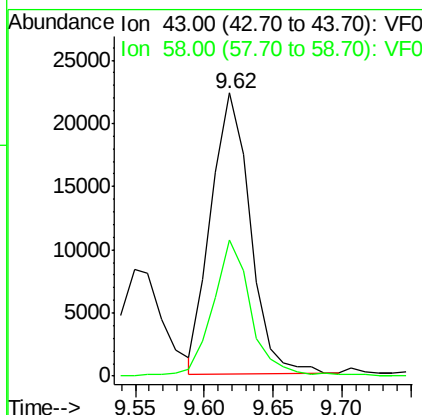
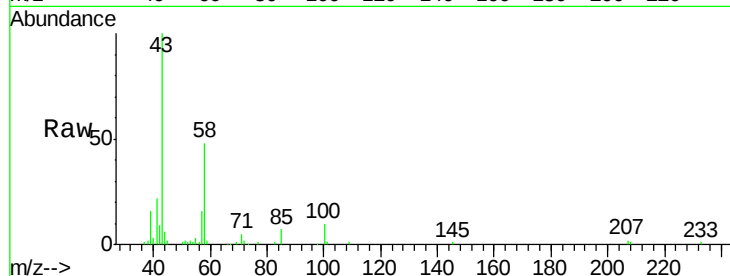
#59
2-Hexanone
Concen: 44.780 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 43 Resp: 44151
Ion Ratio Lower Upper
43 100
58 47.9 23.6 71.0

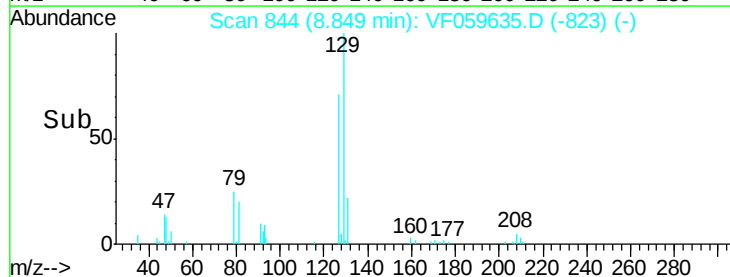
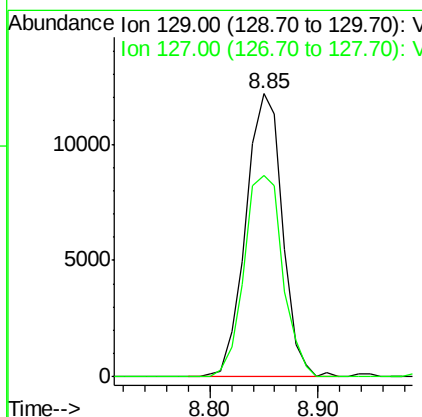
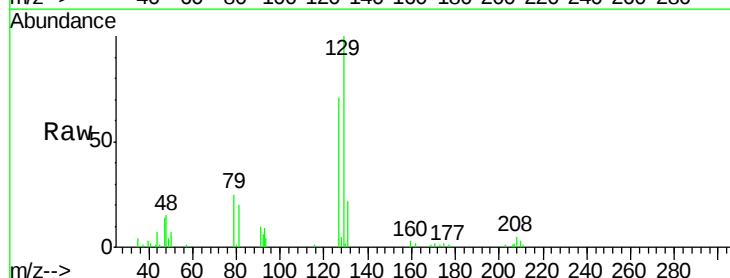
Manual Integrations
APPROVED

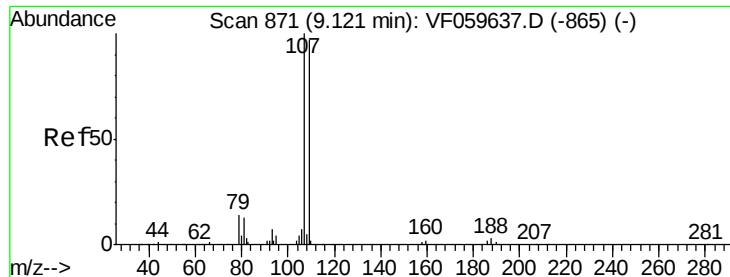
apatel
7/25/2018 2:03:16 PM



#60
Dibromochloromethane
Concen: 10.263 ug/l
RT: 8.85 min Scan# 844
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion: 129 Resp: 28615
Ion Ratio Lower Upper
129 100
127 69.8 38.1 114.5





#61

1,2-Dibromoethane

Concen: 10.161 ug/l

RT: 9.12 min Scan# 871

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 107 Resp: 18158

Ion Ratio Lower Upper

107 100

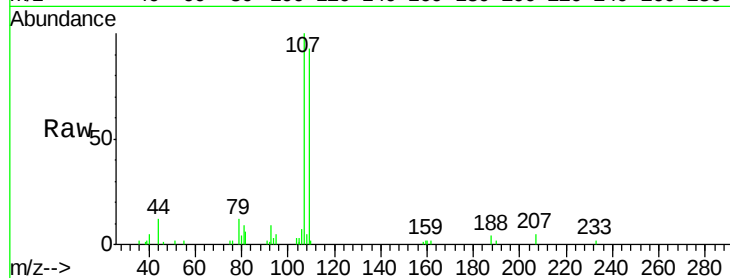
109 92.6 77.3 115.9

Manual Integrations

APPROVED

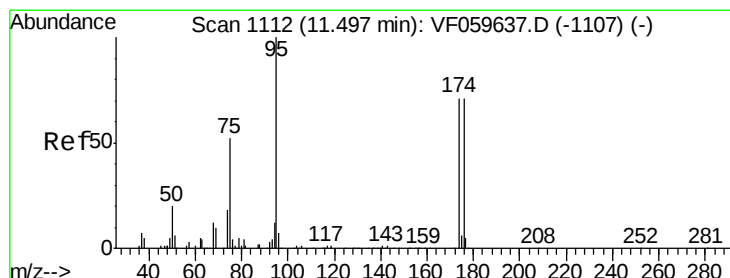
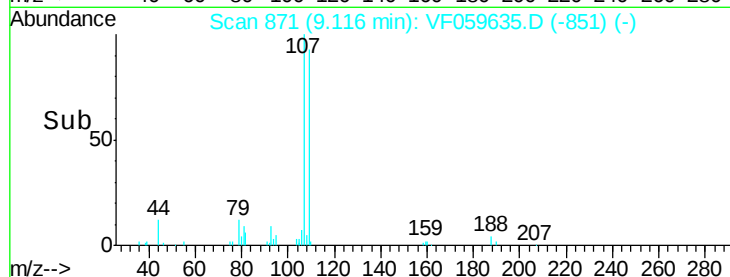
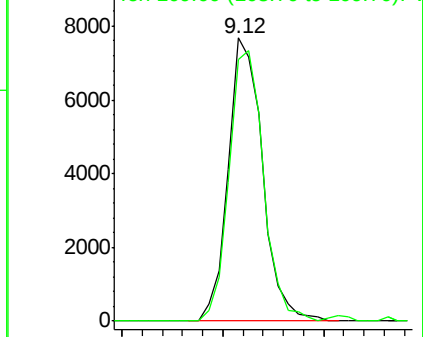
apatel

7/25/2018 2:03:16 PM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 8.866 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

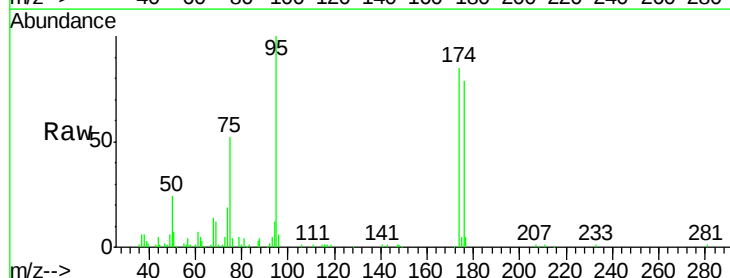
Tgt Ion: 95 Resp: 38954

Ion Ratio Lower Upper

95 100

174 85.3 0.0 141.8

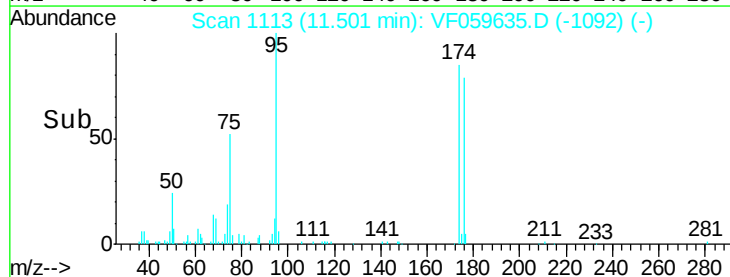
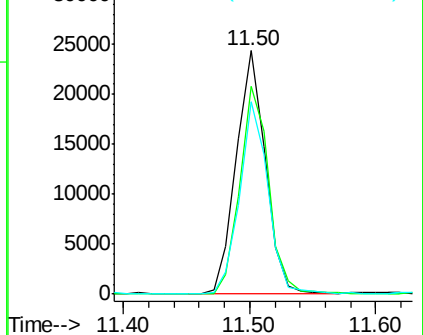
176 79.2 0.0 142.0

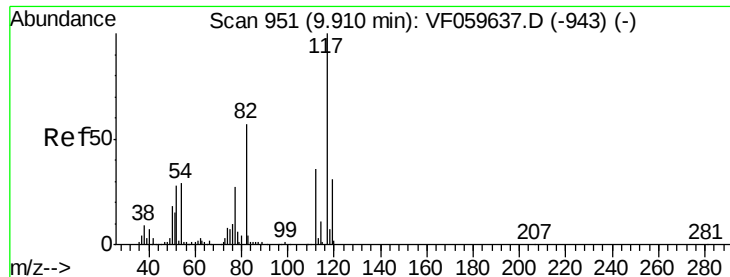


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

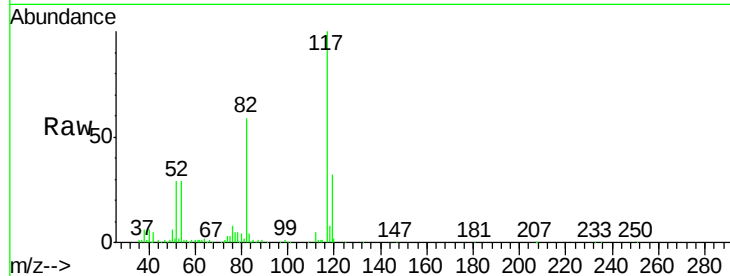
ClientSampleId :

VSTDIC010

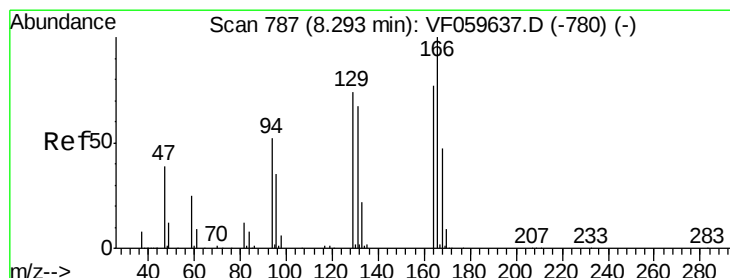
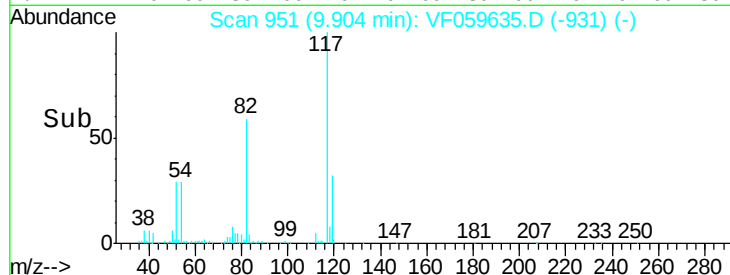
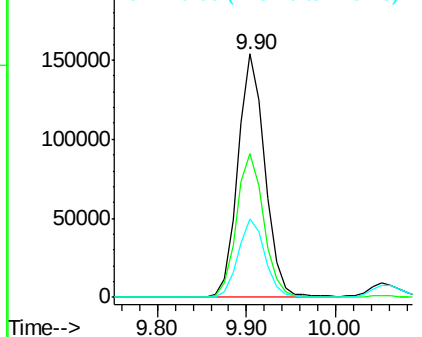
Tot Ion:	117	Resp:	324747
Ion Ratio		Lower	Upper
117	100		
82	59.2	45.9	68.9
119	32.1	25.1	37.7

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 10.831 ug/l

RT: 8.29 min Scan# 787

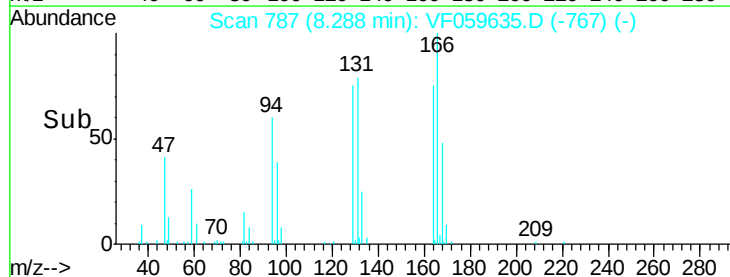
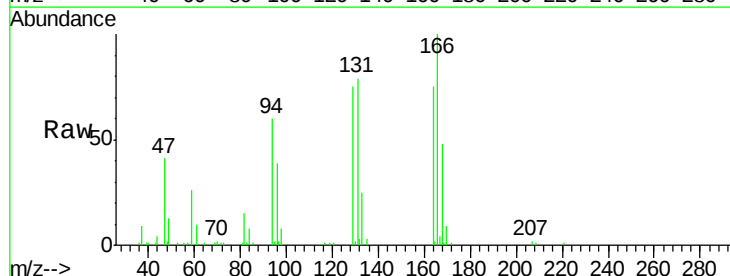
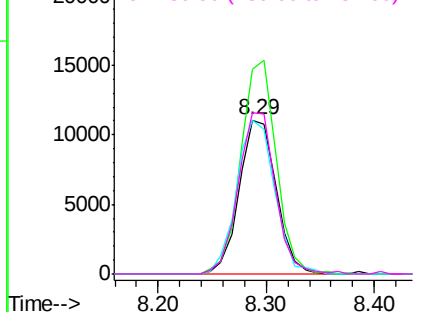
Delta R.T. -0.01 min

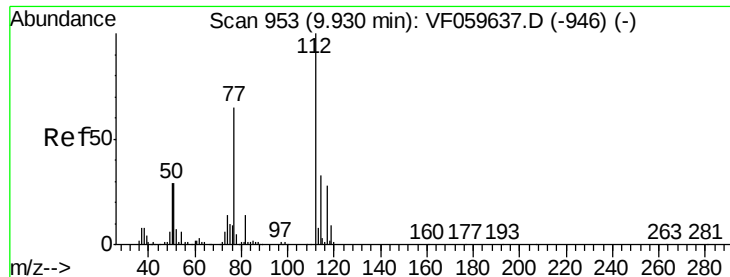
Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	164	Resp:	26337
Ion Ratio		Lower	Upper
164	100		
166	133.5	103.3	154.9
129	99.7	76.2	114.2
131	105.2	69.1	103.7#

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





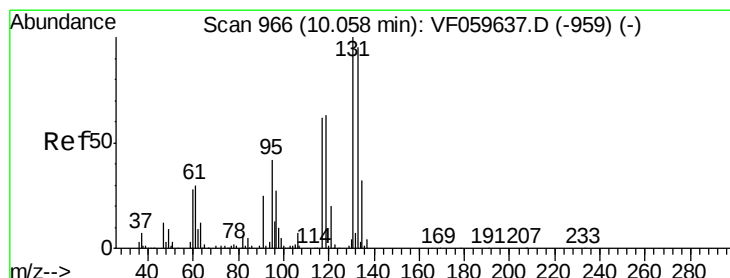
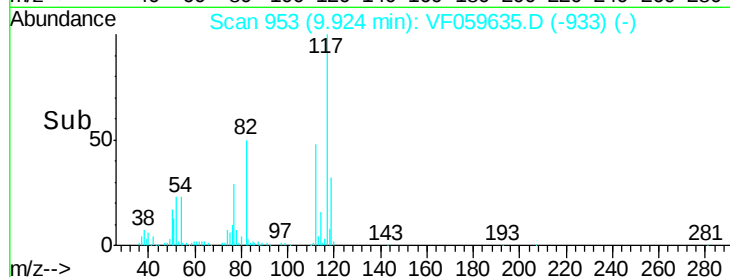
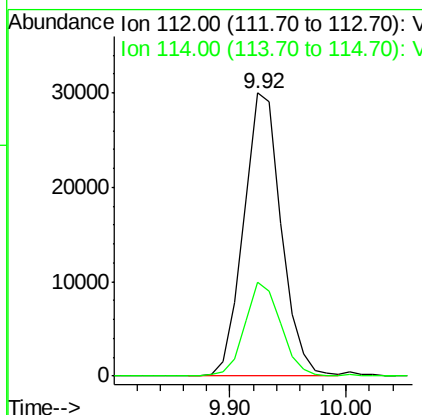
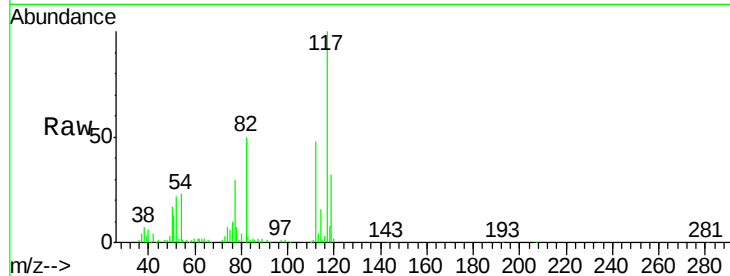
#65
Chlorobenzene
Concen: 11.352 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion:112 Resp: 67213
Ion Ratio Lower Upper
112 100
114 33.1 26.4 39.6

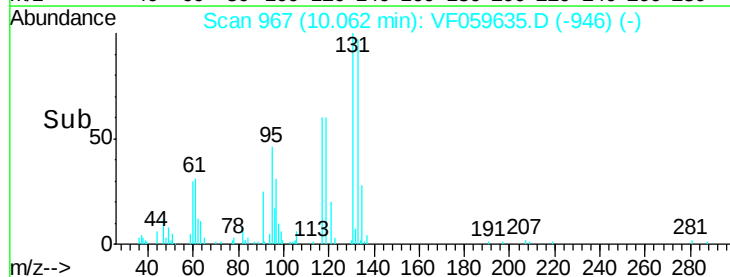
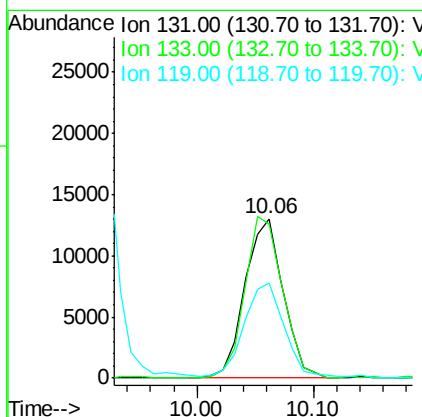
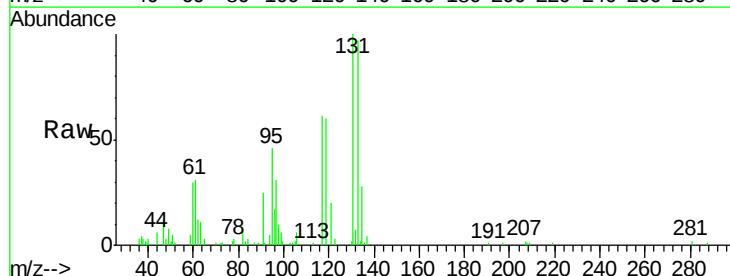
Manual Integrations
APPROVED

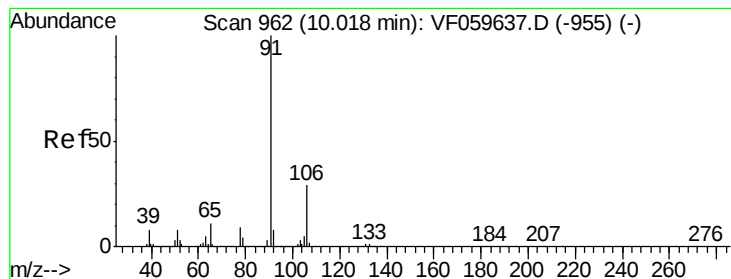
apatel
7/25/2018 2:03:16 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 11.013 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion:131 Resp: 29709
Ion Ratio Lower Upper
131 100
133 97.0 47.5 142.6
119 59.9 31.8 95.4





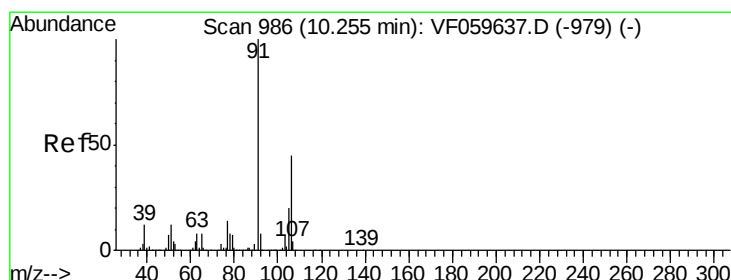
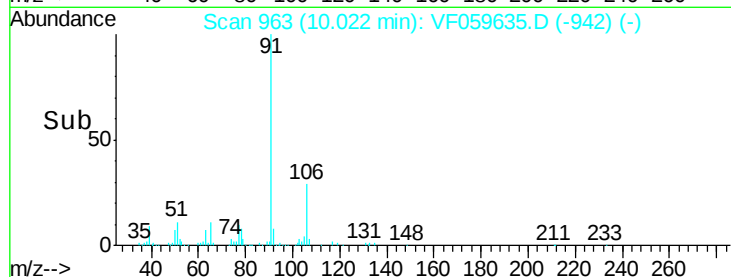
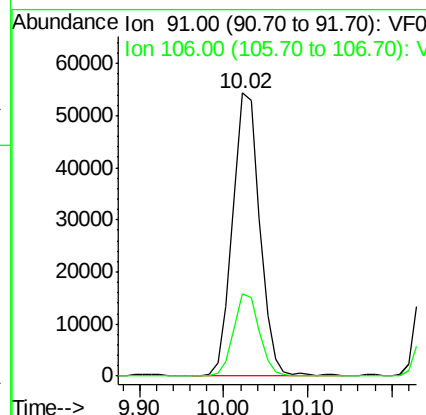
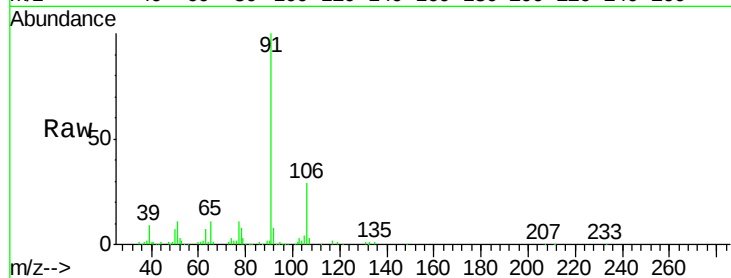
#67
Ethyl Benzene
Concen: 11.430 ug/l
RT: 10.02 min Scan# 963
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion: 91 Resp: 122568
Ion Ratio Lower Upper
91 100
106 29.1 23.4 35.0

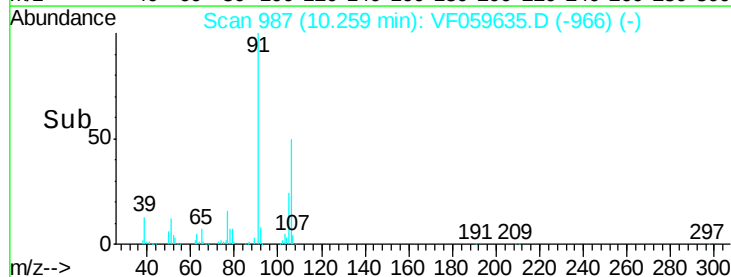
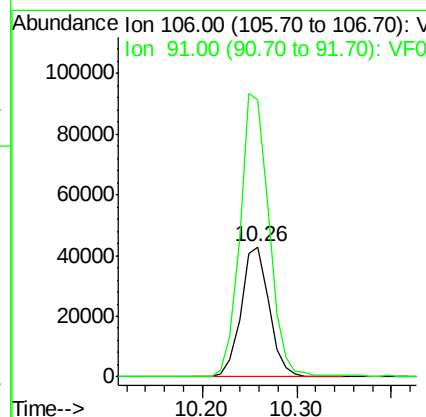
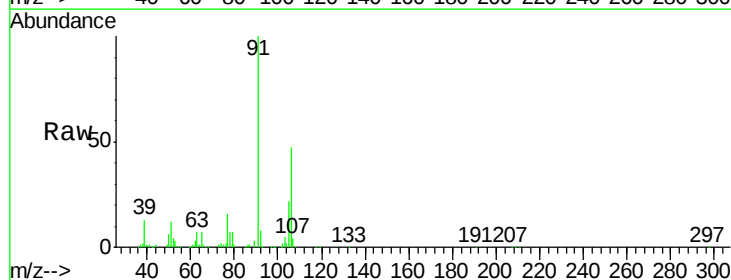
Manual Integrations
APPROVED

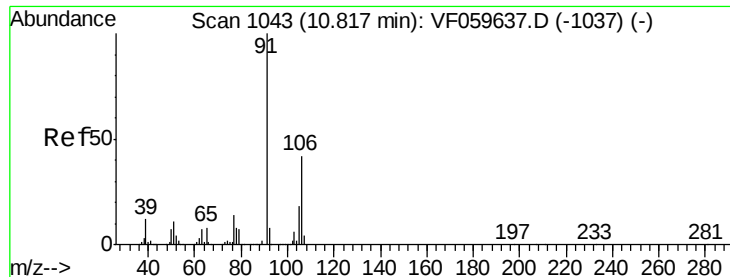
apatel
7/25/2018 2:03:16 PM



#68
m/p-Xylenes
Concen: 23.805 ug/l
RT: 10.26 min Scan# 987
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion: 106 Resp: 88561
Ion Ratio Lower Upper
106 100
91 212.4 177.8 266.8





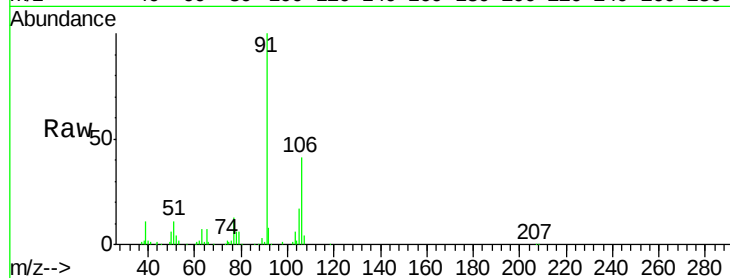
#69
o-Xylene
Concen: 10.999 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

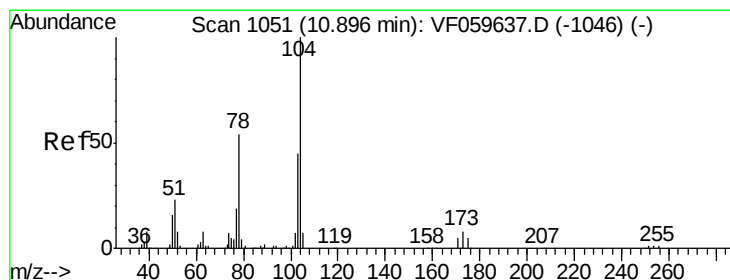
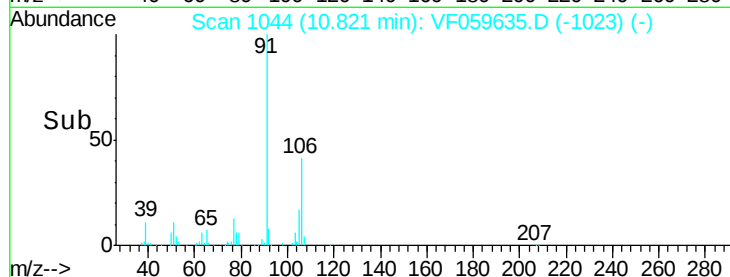
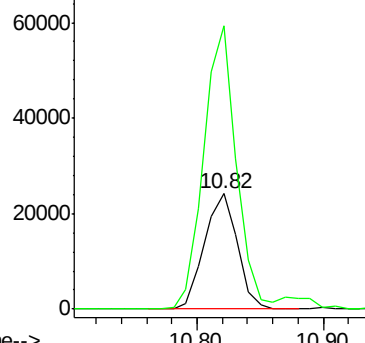
Tot Ion:106 Resp: 44126
Ion Ratio Lower Upper
106 100
91 245.1 119.3 357.9

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM

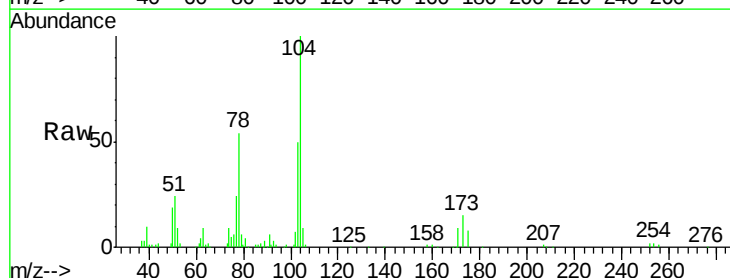


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

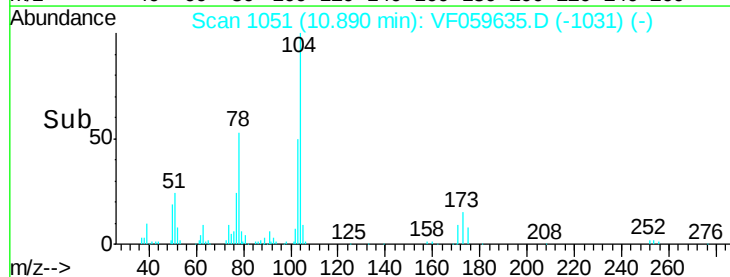
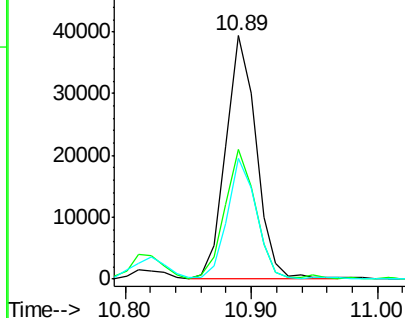


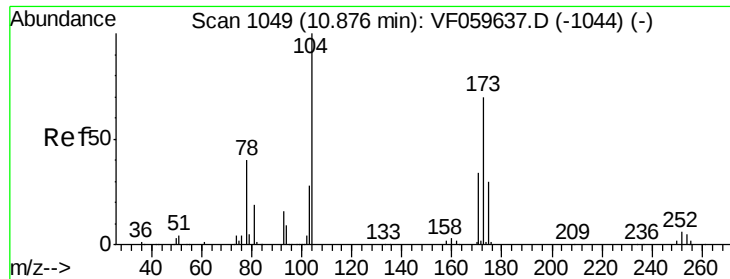
#70
Styrene
Concen: 11.064 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. -0.01 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion:104 Resp: 66124
Ion Ratio Lower Upper
104 100
78 53.5 43.4 65.2
103 49.6 36.7 55.1



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 10.282 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:173 Resp: 17026

Ion Ratio Lower Upper

173 100

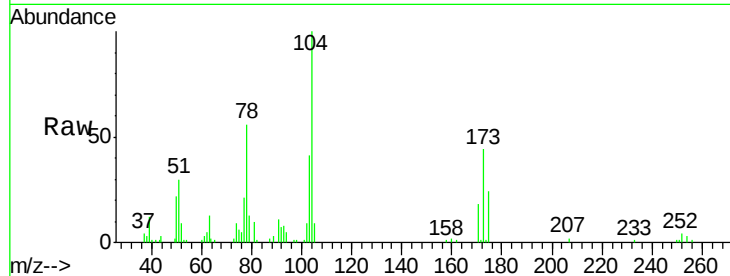
175 53.1 21.6 65.0

254 0.0 0.0 0.0

Manual Integrations
APPROVED

apatel

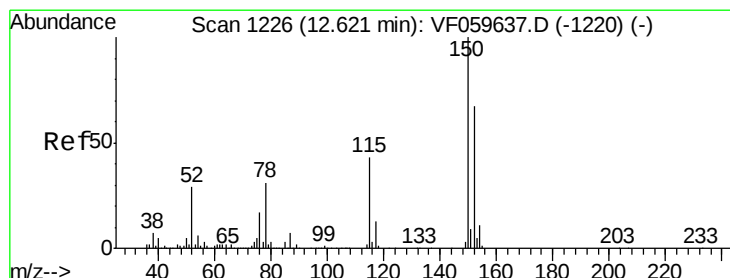
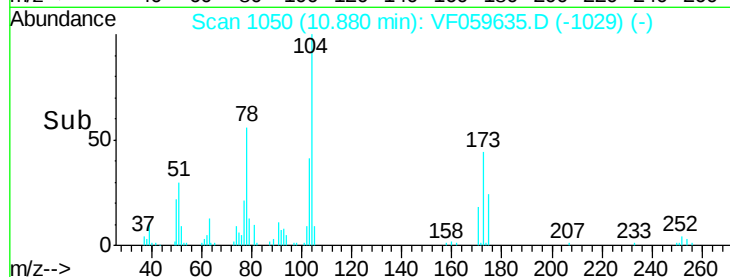
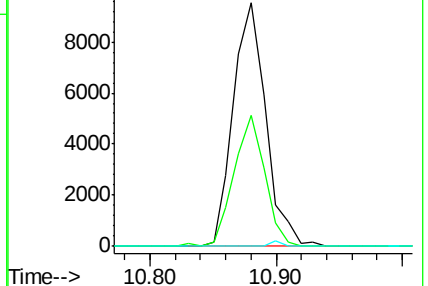
7/25/2018 2:03:16 PM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

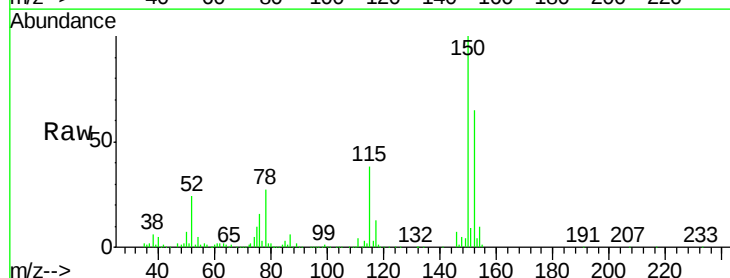
Tgt Ion:152 Resp: 212774

Ion Ratio Lower Upper

152 100

115 58.4 32.0 96.2

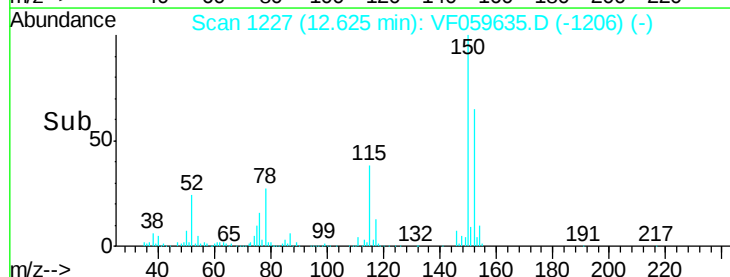
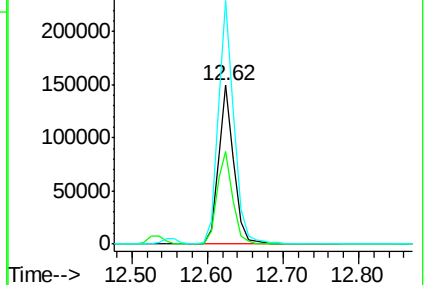
150 153.6 0.0 313.2

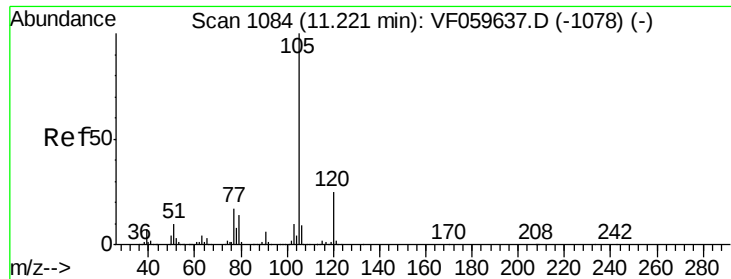


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 10.934 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 105 Resp: 147494

Ion Ratio Lower Upper

105 100

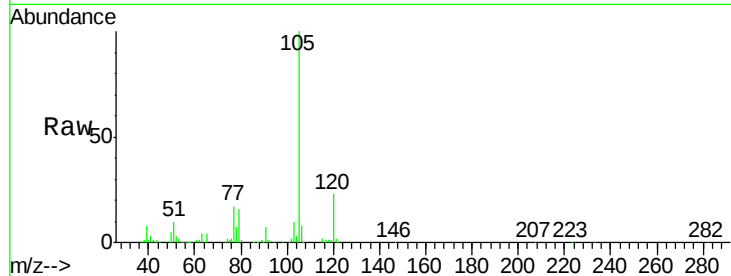
120 22.6 12.6 37.8

Manual Integrations

APPROVED

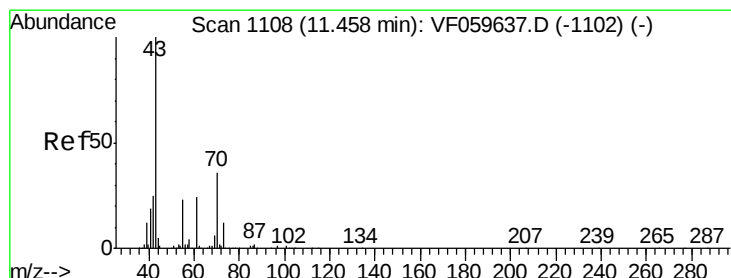
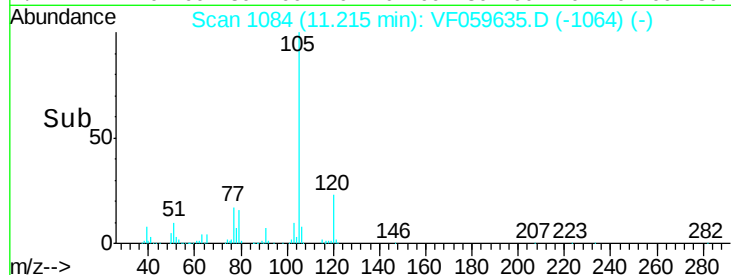
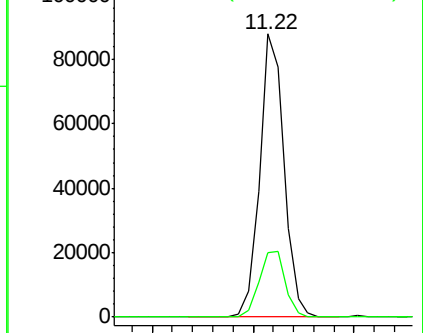
apatel

7/25/2018 2:03:16 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 9.719 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion: 43 Resp: 28798

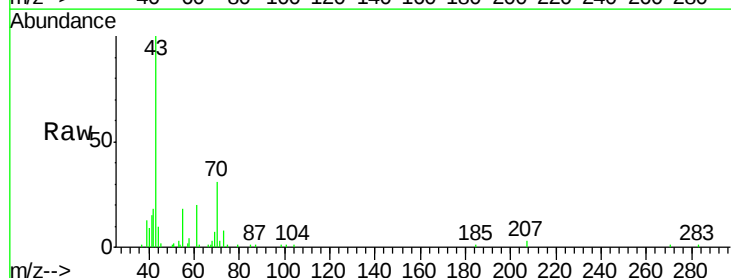
Ion Ratio Lower Upper

43 100

70 30.8 29.4 44.0

55 18.0 18.2 27.4

61 20.0 18.9 28.3

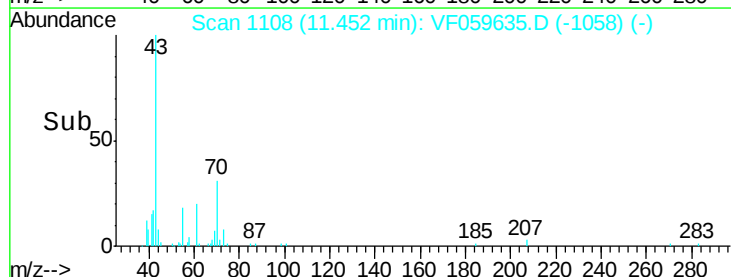
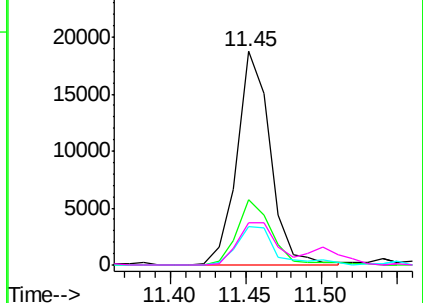


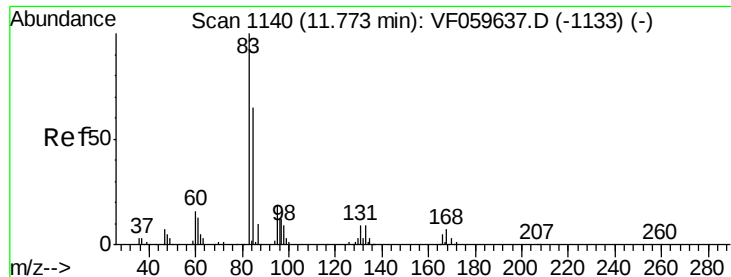
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 8.758 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

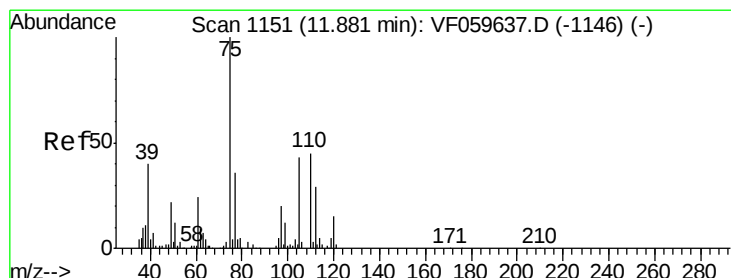
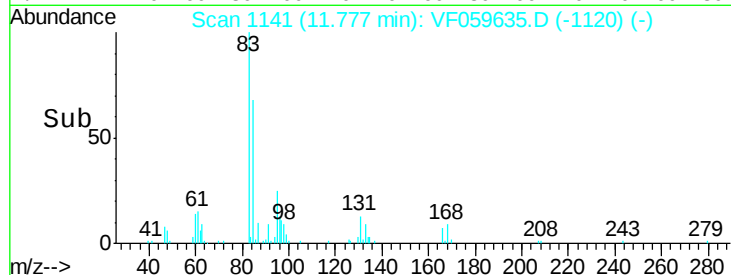
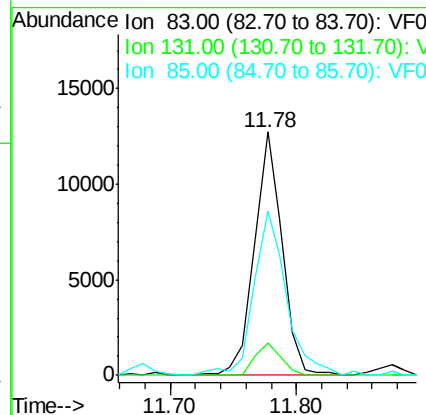
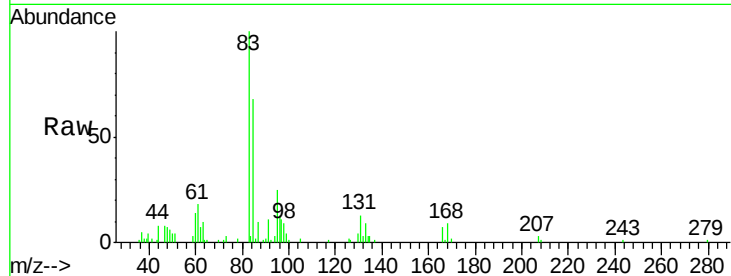
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	19529
Ion Ratio	Lower	Upper	
83	100		
131	13.4	4.5	13.5
85	67.5	32.6	97.7

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#76

1,2,3-Trichloropropane

Concen: 8.836 ug/l

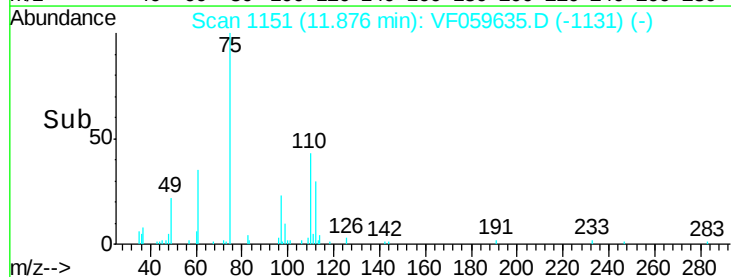
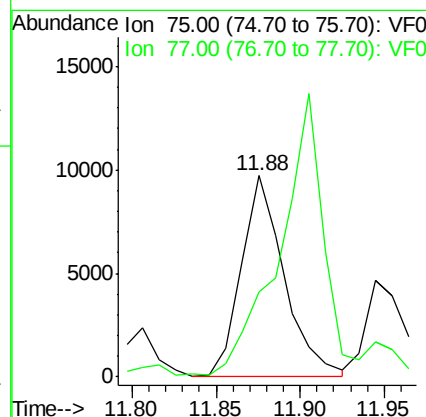
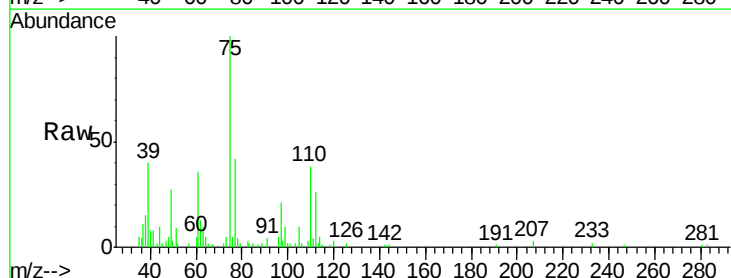
RT: 11.88 min Scan# 1151

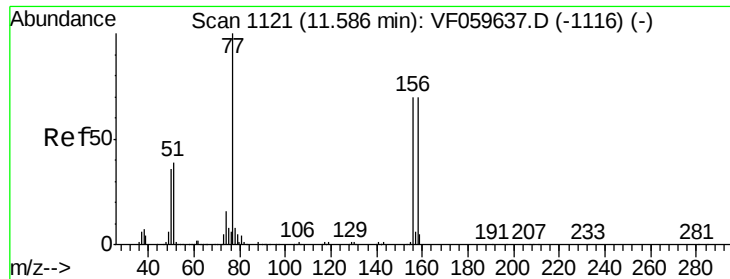
Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	75	Resp:	17255
Ion Ratio	Lower	Upper	
75	100		
77	42.1	18.4	55.0





#77

Bromobenzene

Concen: 10.531 ug/l

RT: 11.59 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

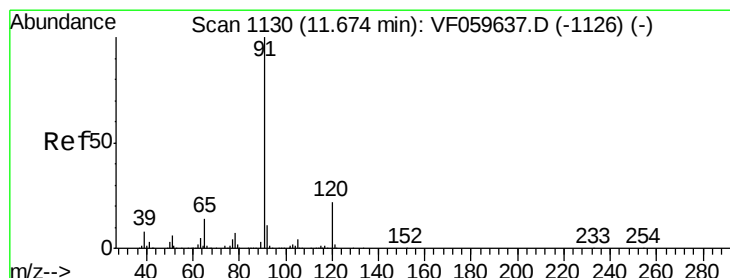
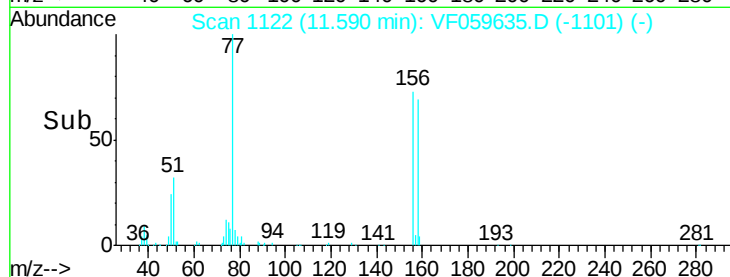
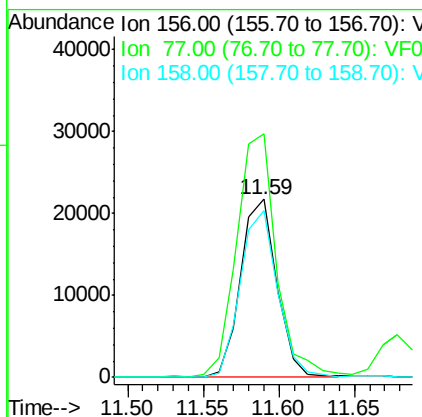
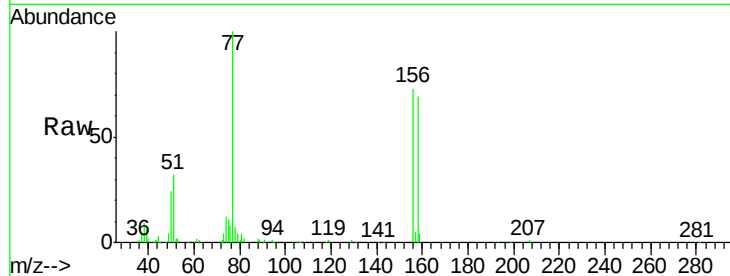
ClientSampleId :

VSTDIC010

Tot Ion	Ratio	Lower	Upper
156	100		
77	136.8	71.5	214.3
158	93.9	50.0	149.8

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#78

n-propylbenzene

Concen: 11.132 ug/l

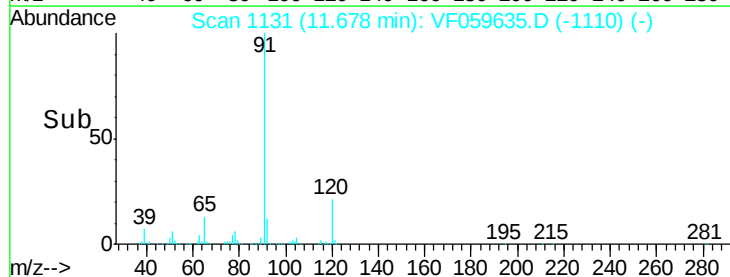
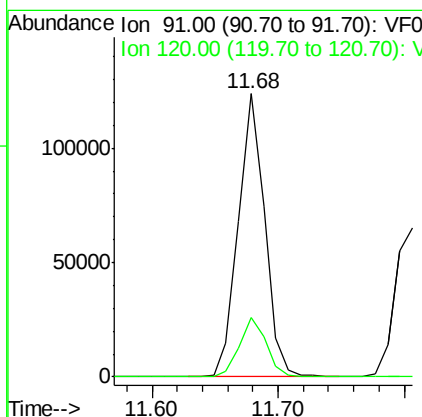
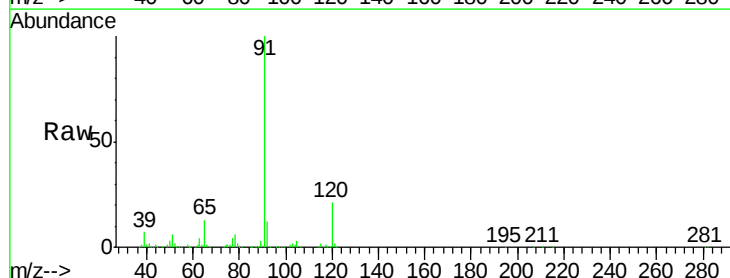
RT: 11.68 min Scan# 1131

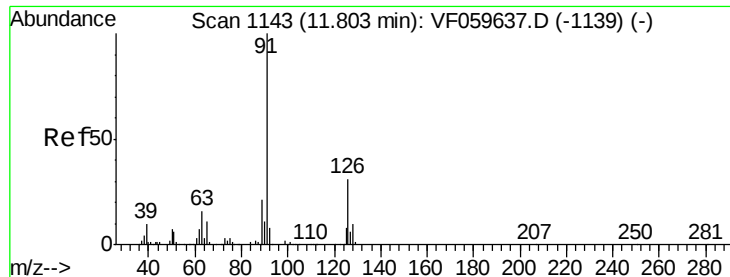
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.9	10.8	32.4





#79

2-Chlorotoluene

Concen: 10.631 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 102867

Ion Ratio Lower Upper

91 100

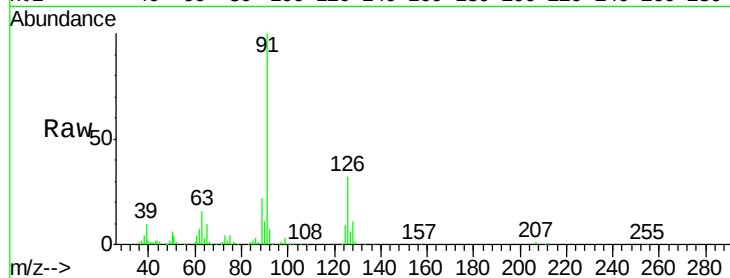
126 32.3 15.4 46.4

Manual Integrations

APPROVED

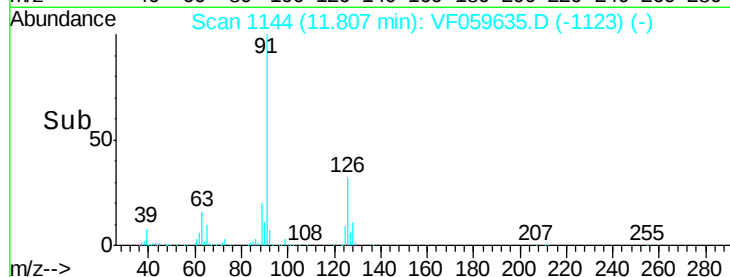
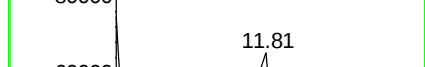
apatel

7/25/2018 2:03:16 PM

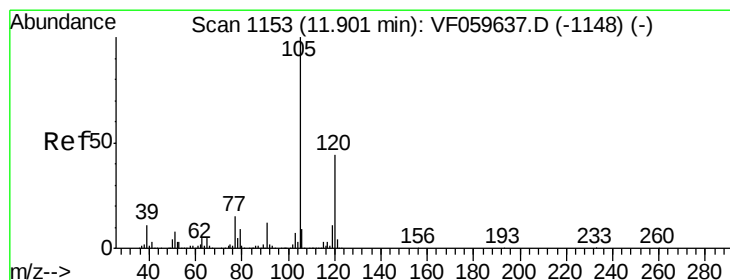


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



Time--> 11.70 11.80 11.90



#80

1,3,5-Trimethylbenzene

Concen: 10.802 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF059635.D

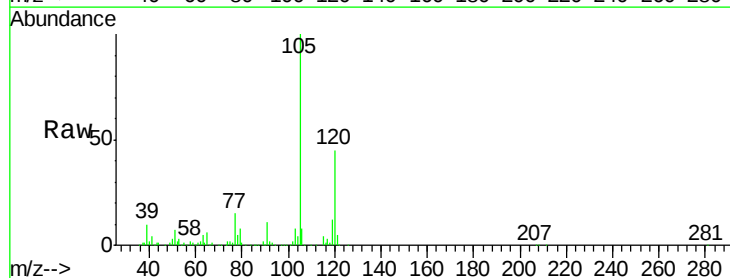
Acq: 24 Jul 2018 16:35

Tgt Ion: 105 Resp: 130768

Ion Ratio Lower Upper

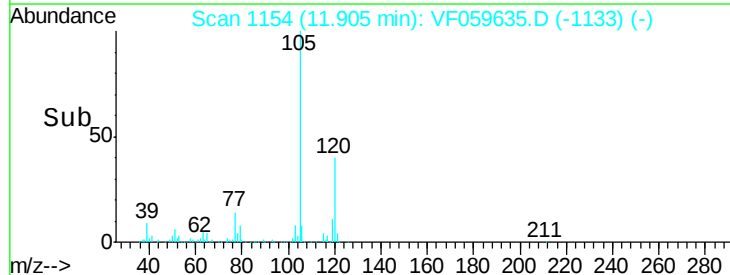
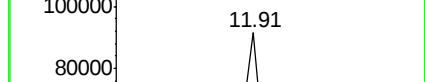
105 100

120 45.0 21.8 65.4

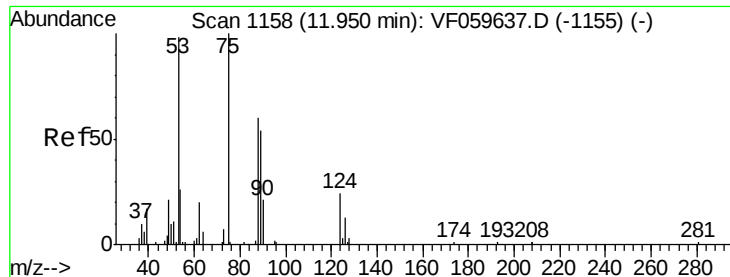


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time--> 11.80 11.90 12.00



#81

trans-1,4-Dichloro-2-butene

Concen: 13.296 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

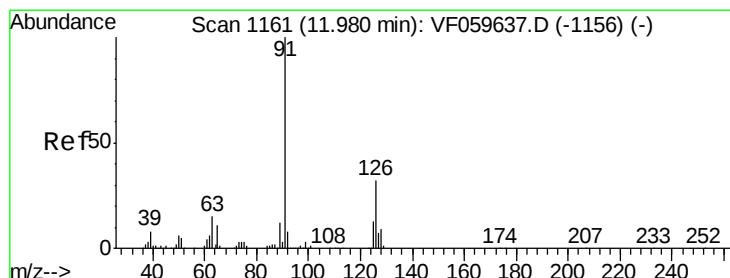
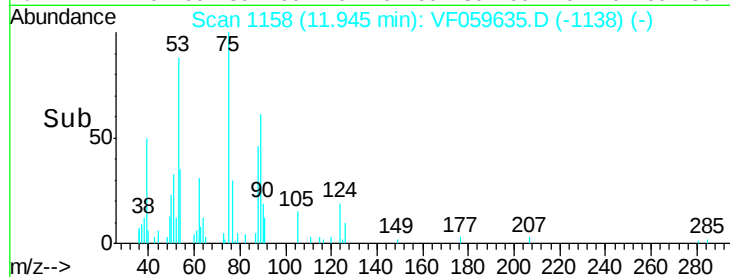
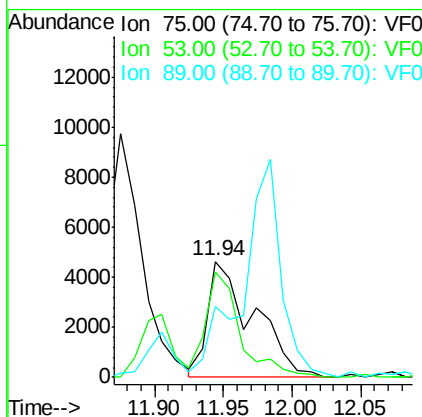
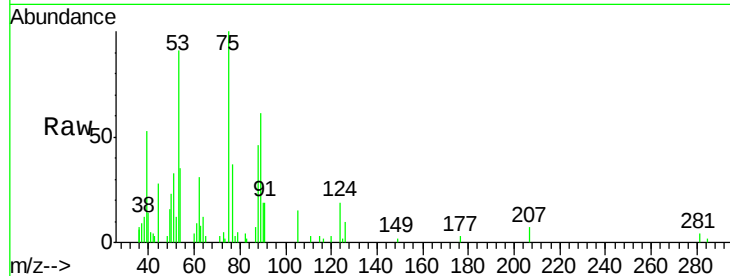
ClientSampleId :

VSTDIC010

Tot Ion:	75	Resp:	10749
Ion Ratio	Lower	Upper	
75	100		
53	90.5	82.3	123.5
89	61.5	48.2	72.2

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#82

4-Chlorotoluene

Concen: 10.375 ug/l

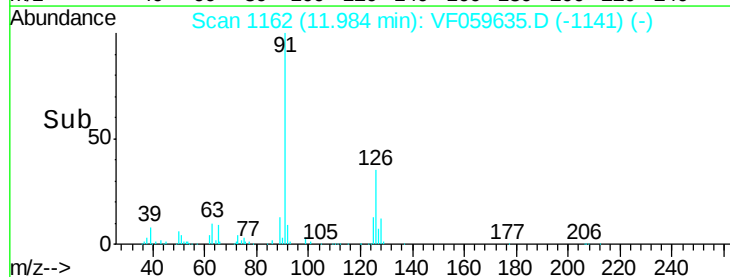
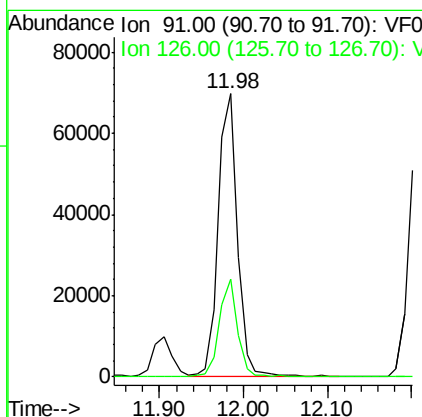
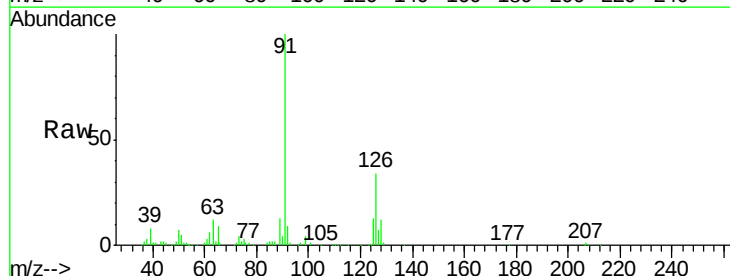
RT: 11.98 min Scan# 1162

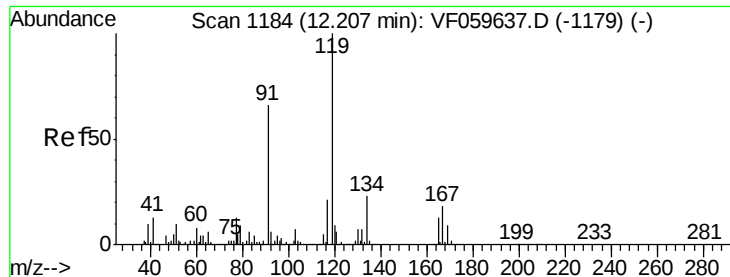
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	91	Resp:	111263
Ion Ratio	Lower	Upper	
91	100		
126	34.5	16.1	48.2





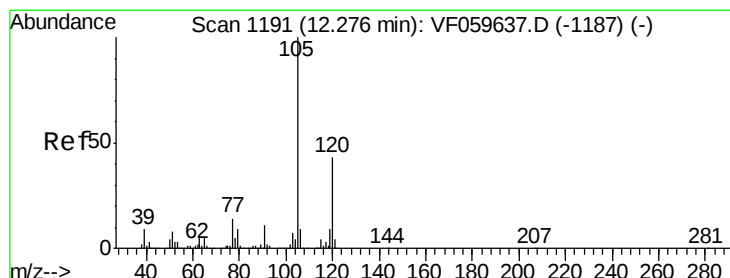
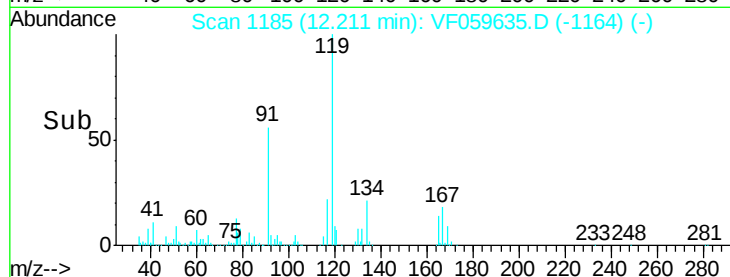
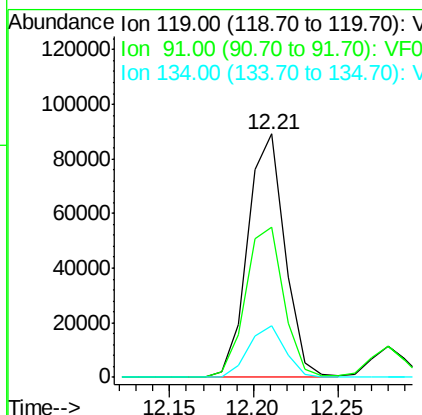
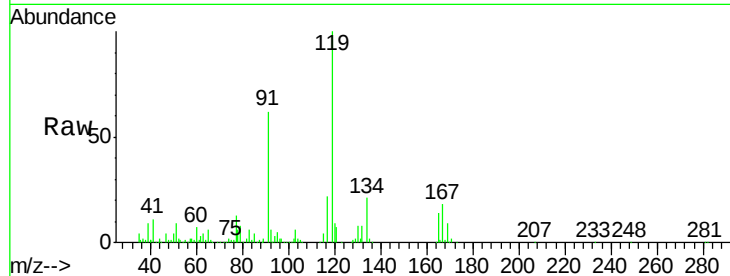
#83
 tert-Butylbenzene
 Concen: 11.382 ug/l
 RT: 12.21 min Scan# 1185
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
119	100	136088		
91	61.9	33.2	99.6	
134	21.4	11.5	34.4	

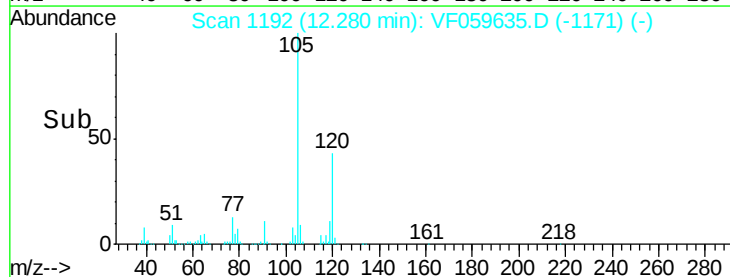
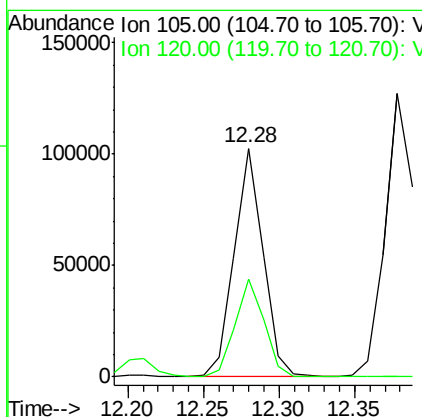
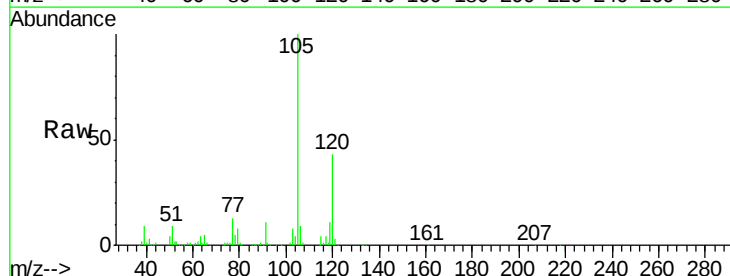
Manual Integrations
 APPROVED

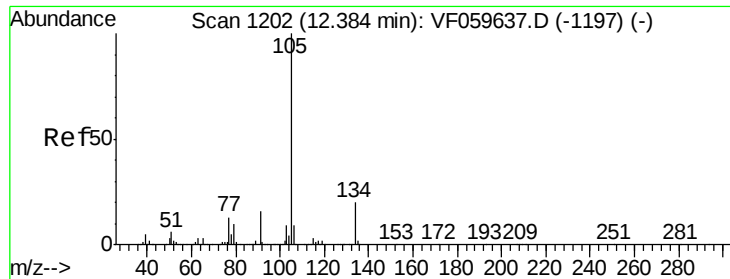
apatel
 7/25/2018 2:03:16 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 11.082 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	135884		
120	42.8	21.4	64.2	





#85

sec-Butylbenzene

Concen: 11.344 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 176091

Ion Ratio Lower Upper

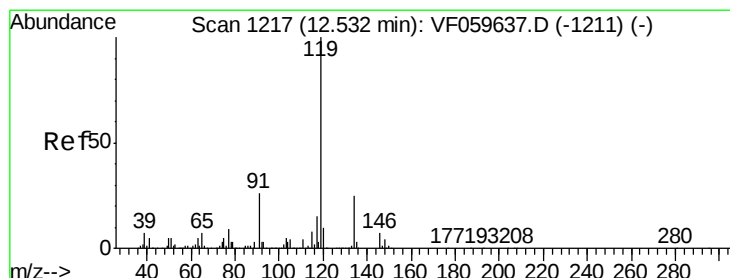
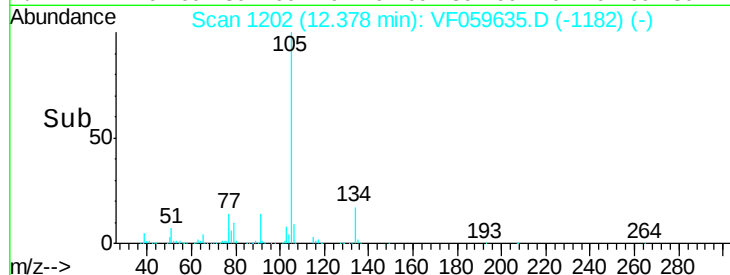
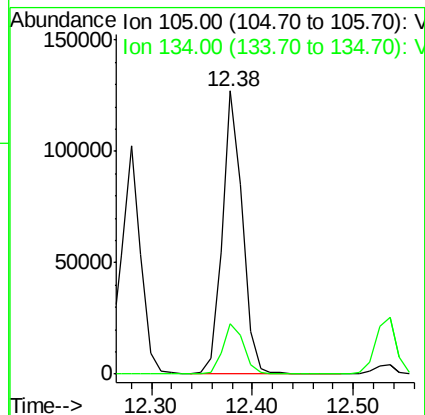
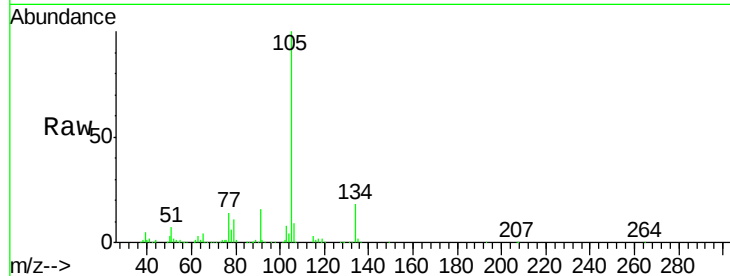
105 100

134 17.6 9.9 29.7

Manual Integrations
APPROVED

apatel

7/25/2018 2:03:16 PM



#86

p-Isopropyltoluene

Concen: 11.615 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

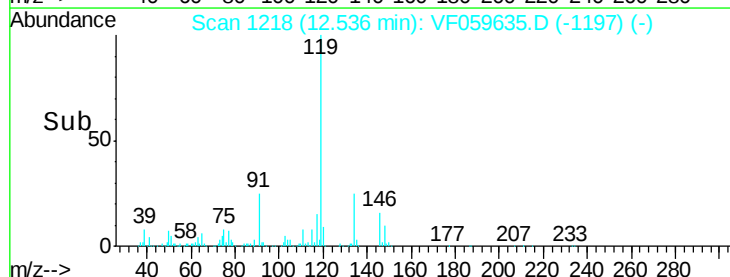
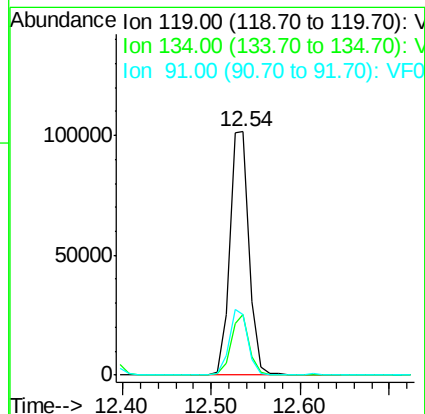
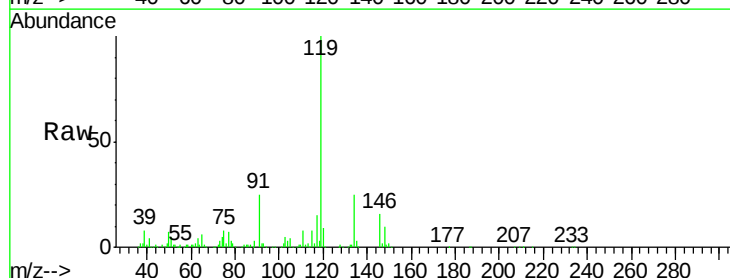
Tgt Ion:119 Resp: 157831

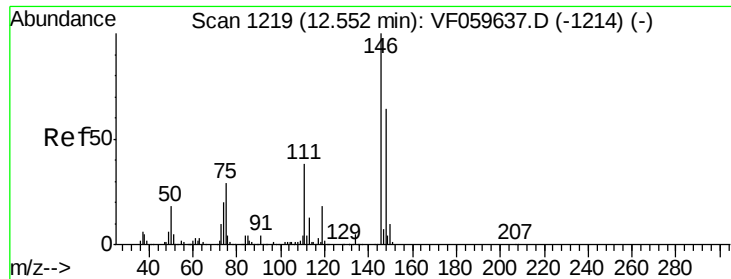
Ion Ratio Lower Upper

119 100

134 25.0 12.4 37.0

91 24.7 13.1 39.1





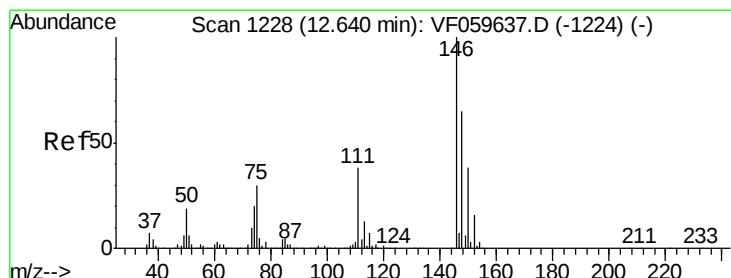
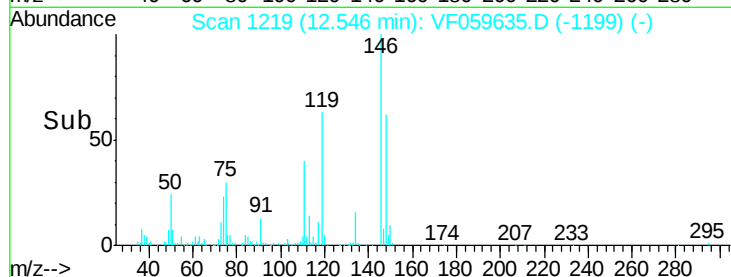
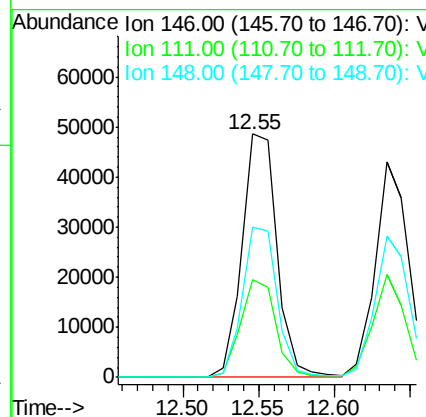
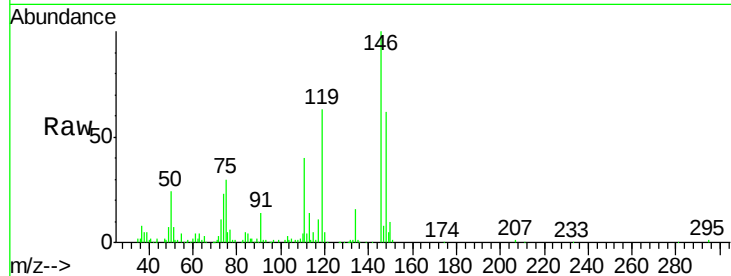
#87
 1,3-Dichlorobenzene
 Concen: 11.713 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. -0.01 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	19.1	57.1
148	61.6	31.9	95.9

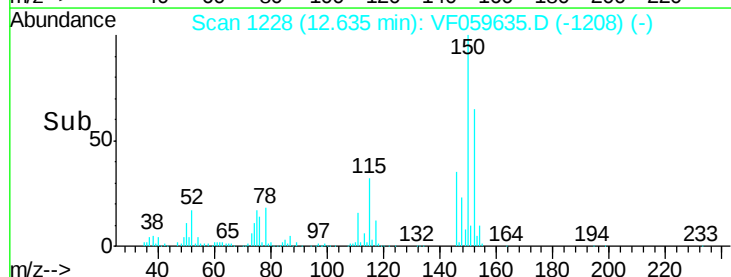
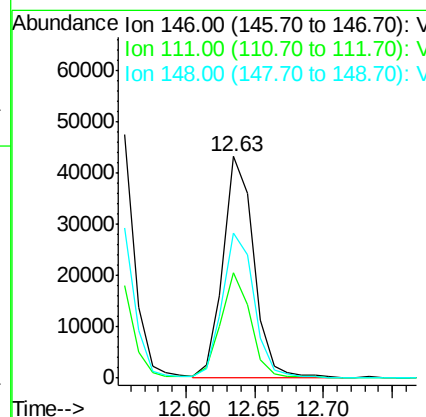
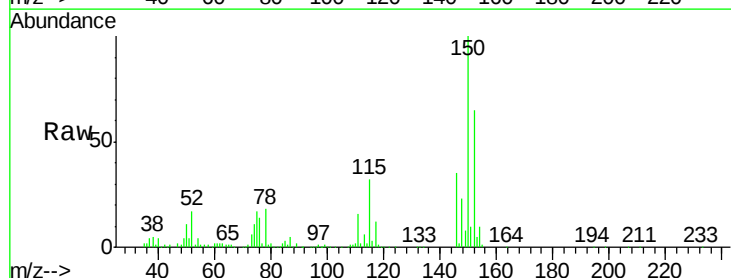
Manual Integrations
 APPROVED

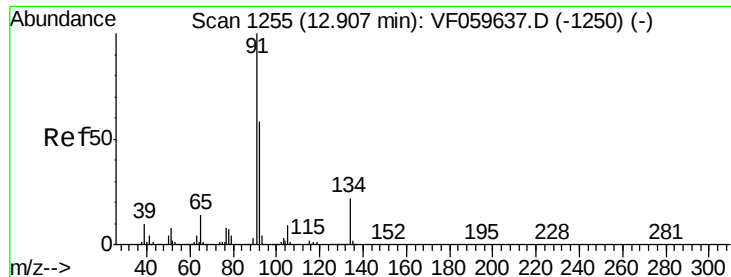
apatel
 7/25/2018 2:03:16 PM



#88
 1,4-Dichlorobenzene
 Concen: 10.701 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.4	19.1	57.1
148	65.6	32.4	97.2





#89

n-Butylbenzene

Concen: 11.824 ug/l

RT: 12.91 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Instrument :

MSVOA_F

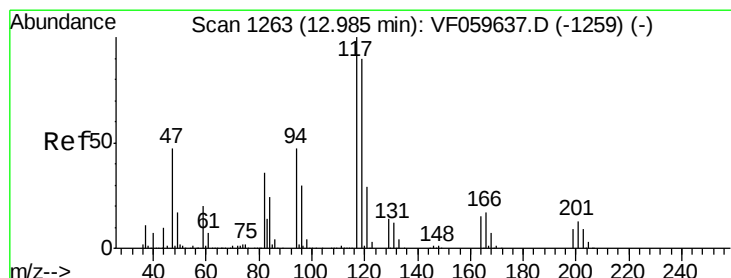
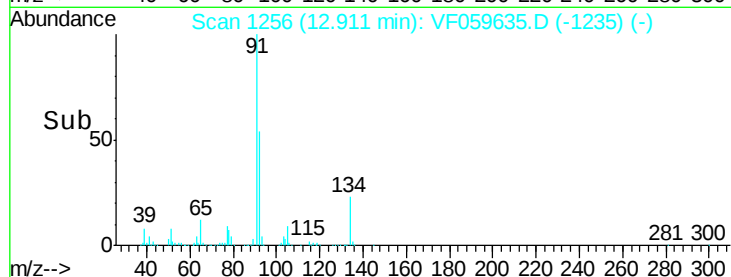
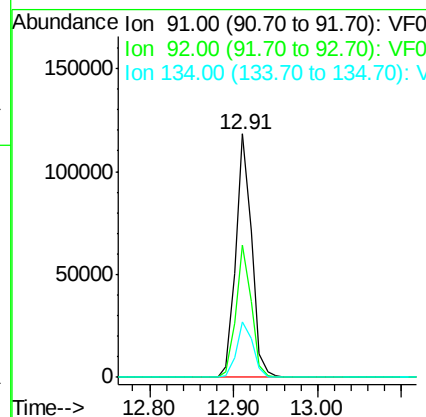
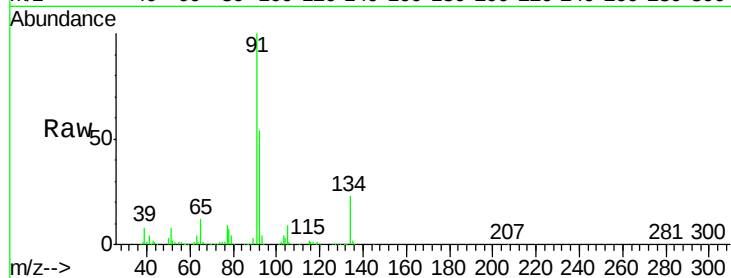
ClientSampleId :

VSTDIC010

Tot Ion:	91	Resp:	154345
Ion Ratio	Lower	Upper	
91	100		
92	54.3	29.1	87.3
134	22.9	11.2	33.6

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#90

Hexachloroethane

Concen: 10.663 ug/l

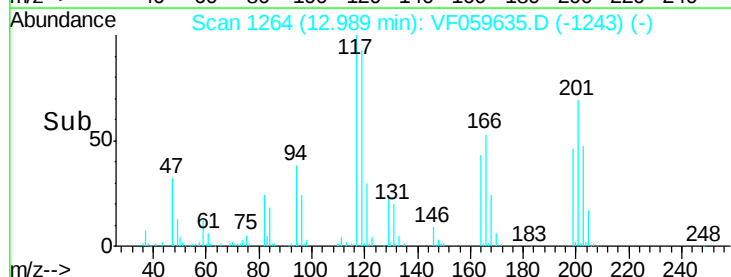
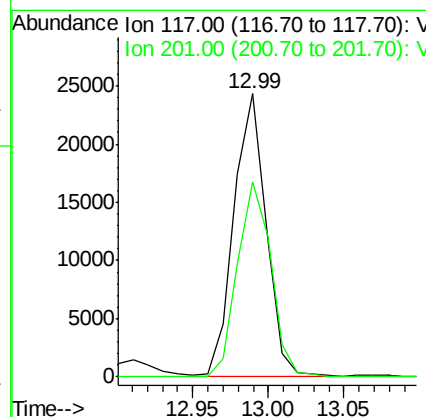
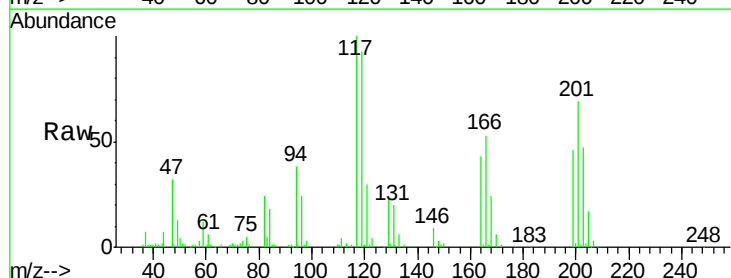
RT: 12.99 min Scan# 1264

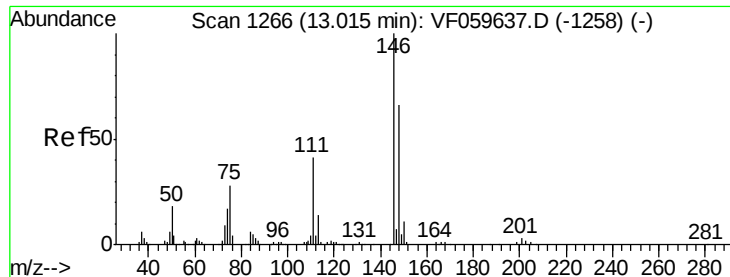
Delta R.T. 0.00 min

Lab File: VF059635.D

Acq: 24 Jul 2018 16:35

Tgt Ion:	117	Resp:	36170
Ion Ratio	Lower	Upper	
117	100		
201	70.2	6.6	19.7#





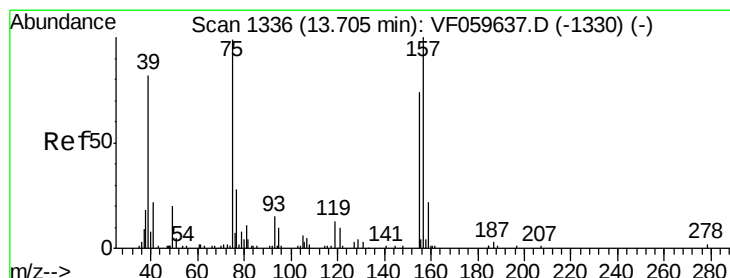
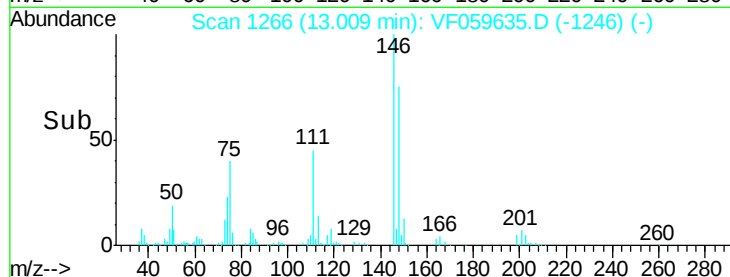
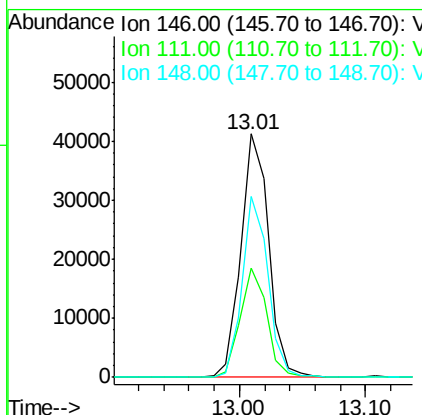
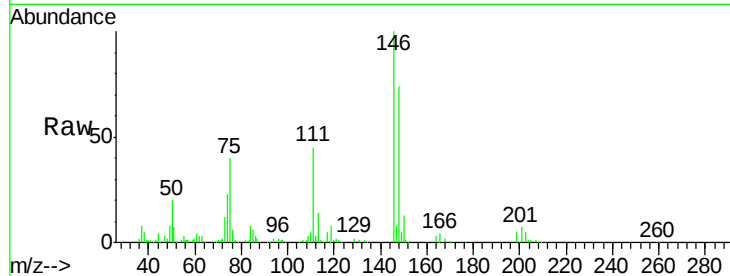
#91
 1,2-Dichlorobenzene
 Concen: 10.018 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.01 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampled :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	20.3	61.0
148	74.3	32.9	98.6

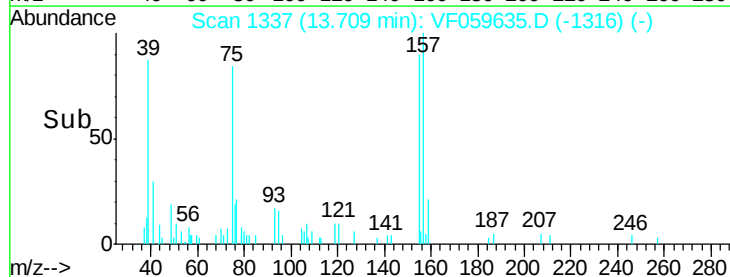
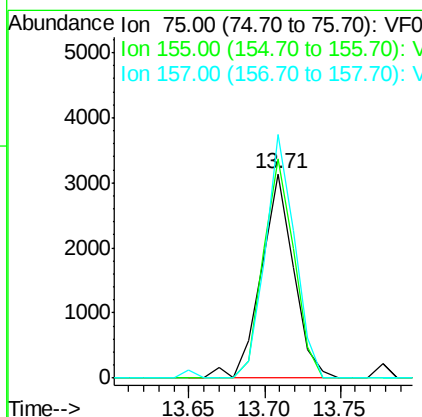
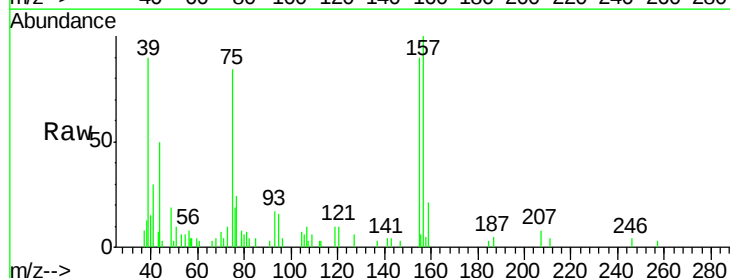
Manual Integrations
 APPROVED

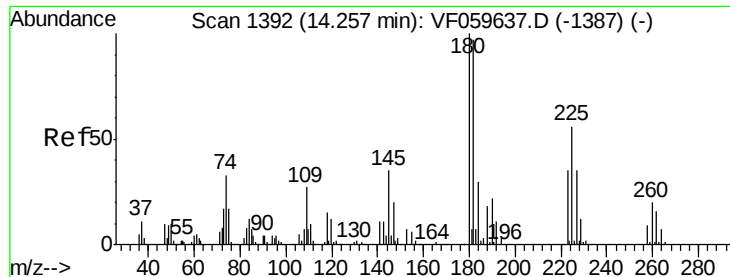
apatel
 7/25/2018 2:03:16 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 8.692 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	115.1	37.5	112.7#
157	119.2	50.6	151.9





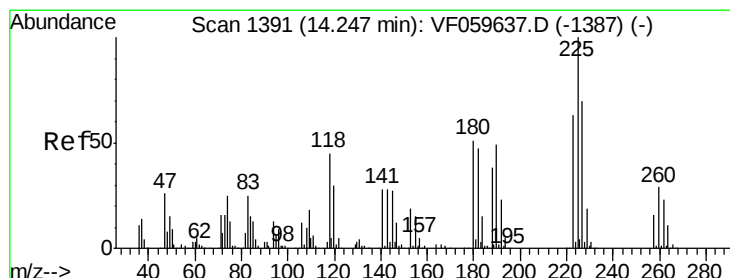
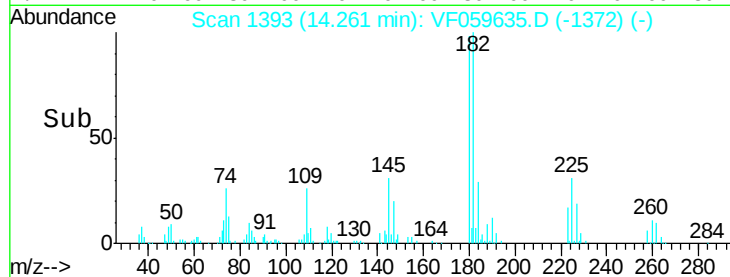
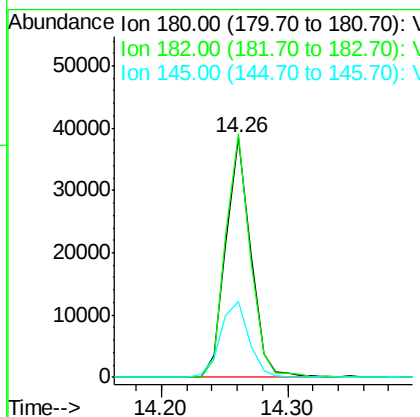
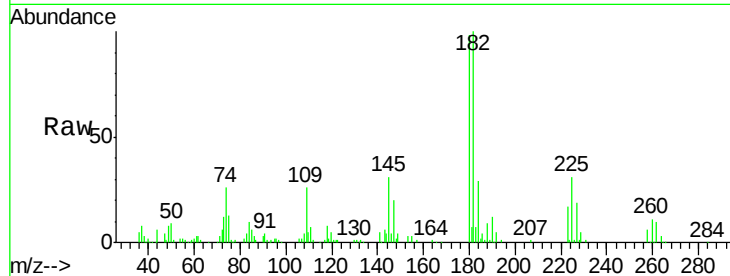
#93
 1,2,4-Trichlorobenzene
 Concen: 11.220 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
180	100	52711		
182	101.6	48.5	145.6	
145	31.8	17.4	52.2	

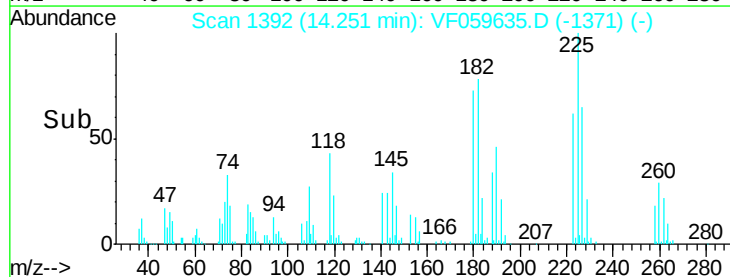
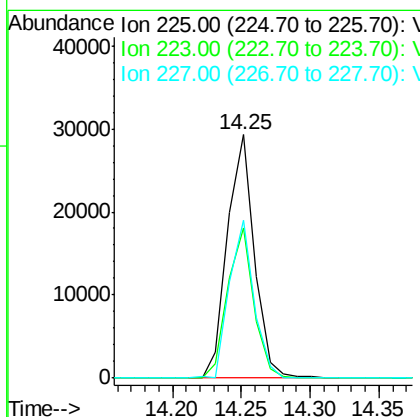
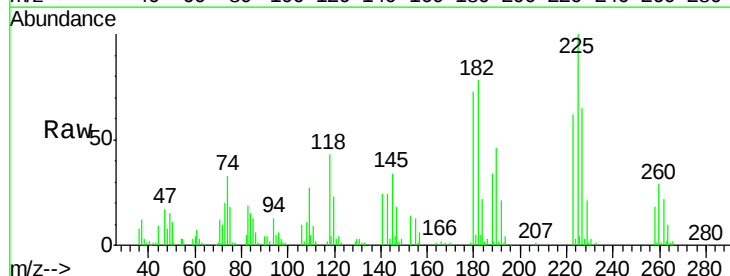
Manual Integrations
 APPROVED

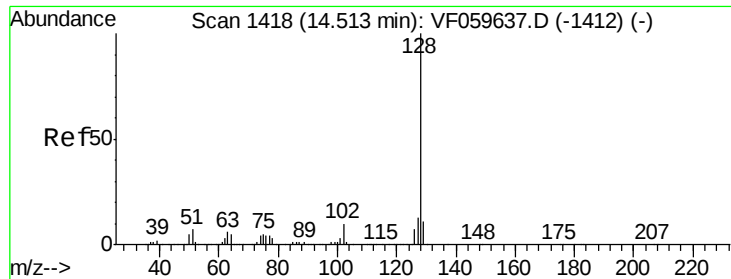
apatel
 7/25/2018 2:03:16 PM



#94
 Hexachlorobutadiene
 Concen: 12.173 ug/l
 RT: 14.25 min Scan# 1392
 Delta R.T. 0.00 min
 Lab File: VF059635.D
 Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	39918		
223	61.7	33.3	99.8	
227	64.6	34.8	104.4	





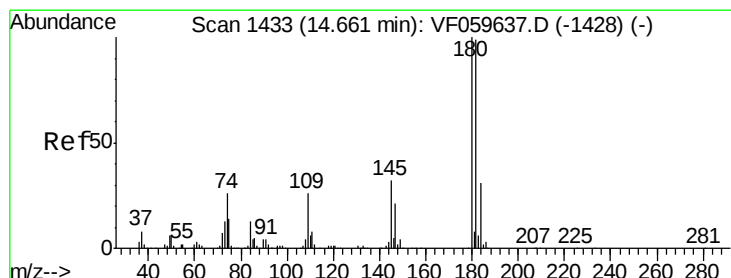
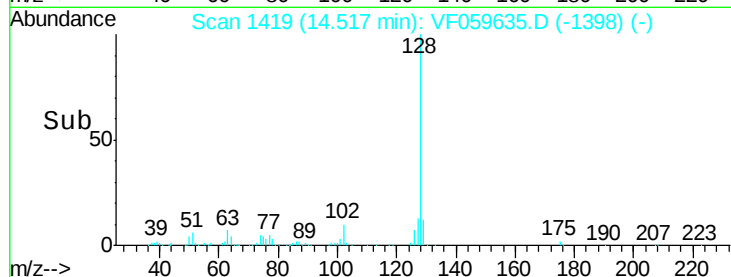
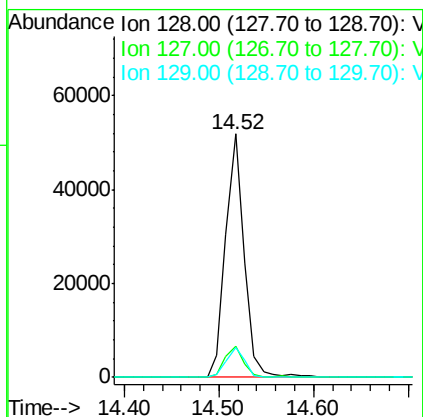
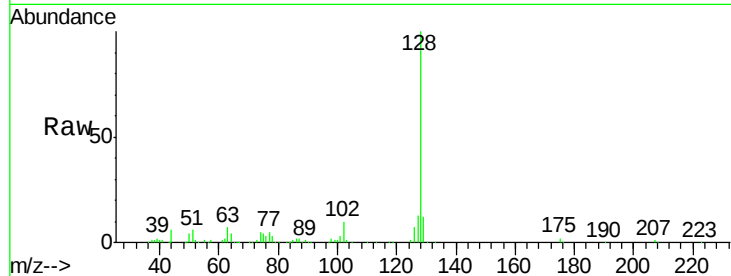
#95
Naphthalene
Concen: 9.347 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	12.4	9.1	13.7

Manual Integrations
APPROVED

apatel
7/25/2018 2:03:16 PM



#96
1,2,3-Trichlorobenzene
Concen: 10.914 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059635.D
Acq: 24 Jul 2018 16:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.0	49.5	148.5
145	29.7	16.0	48.0

