

Data File : VL034050.D
Acq On : 30 Jul 2019 3:26
Operator : SY/AP
Sample : VSTDIC001
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Quant Time: Jul 30 05:06:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL073019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:02:48 2019
QLast Update : Tue Jul 30 05:02:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1211879	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	4333172	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	3211609	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.52	95	2521751	9.57	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	256529	1.008	ppbv	99
3) Chlorodifluoromethane	2.99	51	149658	0.984	ppbv	100
4) Chloromethane	3.14	50	85150	0.953	ppbv	99
5) Vinyl Chloride	3.26	62	89235	0.898	ppbv	93
6) Bromomethane	3.49	94	55402	0.919	ppbv	92
7) Chloroethane	3.57	64	35864	0.976	ppbv	91
8) Dichlorotetrafluoroethane	3.19	85	240233	0.950	ppbv	96
9) Propene	3.01	41	47135	0.843	ppbv	89
10) Heptane	8.20	43	140951	1.044	ppbv	97
11) Trichlorofluoromethane	3.97	101	249528	0.849	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.52	101	174500	0.892	ppbv	98
13) Ethanol	3.62	45	22479	1.280	ppbv	99
14) Bromoethene	3.76	108	71039	0.931	ppbv	95
15) Acetone	3.88	43	190570	0.899	ppbv	99
16) 1,3-Butadiene	3.34	39	62065	0.809	ppbv	86
17) tert-Butyl alcohol	4.33	59	160138	0.991	ppbv	98
18) 1,1-Dichloroethene	4.31	96	80392	0.918	ppbv	90
19) Isopropyl Alcohol	4.00	45	130611	0.916	ppbv #	95
20) Methylene Chloride	4.37	84	74243	0.850	ppbv #	82
21) Allyl Chloride	4.44	41	118407	0.946	ppbv	97
22) trans-1,2-Dichloroethene	4.92	96	79370	0.951	ppbv	87
23) Vinyl Acetate	5.12	43	205512	1.030	ppbv #	95
24) 1,1-Dichloroethane	5.05	63	186634	1.045	ppbv	96
25) Ethyl Acetate	5.73	43	281643	1.023	ppbv	99
26) Hexane	5.74	57	127771	1.013	ppbv	94
27) Carbon Disulfide	4.58	76	184043	0.866	ppbv #	92
28) Methyl tert-Butyl Ether	5.08	73	213191	1.001	ppbv	99
29) Chloroform	5.80	83	245483	1.037	ppbv	94
30) Cyclohexane	7.20	84	74499	0.721	ppbv #	24
31) cis-1,2-Dichloroethene	5.60	61	120059	0.989	ppbv	99
32) 1,1,1-Trichloroethane	6.57	97	240062	1.001	ppbv	97
34) 2-Butanone	5.29	43	169576	0.790	ppbv	99
35) Carbon Tetrachloride	7.08	117	262740	0.803	ppbv	98
36) Benzene	6.95	78	266670	0.848	ppbv	94
37) 1,2-Dichloroethane	6.37	62	197206	0.842	ppbv #	97
38) Trichloroethene	7.91	130	66077	0.462	ppbv	92
39) 1,2-Dichloropropane	7.69	63	49437	0.416	ppbv	92
40) 1,4-Dioxane	7.92	88	9750	0.180	ppbv #	1
41) Tetrahydrofuran	6.12	42	85120	0.816	ppbv	96
42) Bromodichloromethane	7.87	83	247292	0.790	ppbv #	97
43) Methyl Methacrylate	8.09	69	94795	0.797	ppbv	98

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 30 05:02:48 2019
QLast Update : Tue Jul 30 05:02:48 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.94	57	434511	0.798	ppbv	98
45) t-1,3-Dichloropropene	9.36	75	114966	0.747	ppbv	100
46) cis-1,3-Dichloropropene	8.79	75	126921	0.707	ppbv	95
47) 1,1,2-Trichloroethane	9.55	97	76301	0.516	ppbv	93
48) Dibromochloromethane	10.39	129	134169	0.451	ppbv #	11
49) Bromoform	13.14	173	185516	0.769	ppbv	97
50) 4-Methyl-2-Pentanone	8.83	43	132531	0.419	ppbv #	37
51) 2-Hexanone	10.23	43	188643	0.698	ppbv #	97
52) Tetrachloroethene	11.31	164	52685	0.381	ppbv	93
53) Toluene	9.89	91	129089	0.361	ppbv #	21
54) 1,2-Dibromoethane	10.70	107	85394	0.394	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.22	131	155216	1.099	ppbv #	1
57) Chlorobenzene	12.24	112	152217	0.605	ppbv	95
58) Ethyl Benzene	12.81	91	369825	0.973	ppbv	97
59) m/p-Xylene	13.09	91	224404	0.652	ppbv #	32
60) o-Xylene	13.79	91	366253	1.060	ppbv	98
61) Styrene	13.63	104	218785	0.963	ppbv	99
62) Isopropylbenzene	14.77	105	471837	0.945	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.78	83	274422	1.023	ppbv	98
64) n-propylbenzene	15.67	120	59679	0.462	ppbv #	1
65) tert-Butylbenzene	16.85	119	456210	1.084	ppbv	96
66) Benzyl Chloride	17.10	91	202867	0.953	ppbv	98
67) sec-Butylbenzene	17.40	105	654623	1.102	ppbv	99
69) p-Isopropyltoluene	17.76	119	525447	1.076	ppbv	98
70) n-Butylbenzene	18.66	91	297249	0.578	ppbv #	48
71) 2-Chlorotoluene	15.56	91	342521	0.942	ppbv	98
72) 4-Ethyltoluene	15.95	105	401563	0.959	ppbv	97
73) 1,3,5-Trimethylbenzene	16.10	105	416072	1.078	ppbv	98
74) 1,2,4-Trimethylbenzene	16.87	105	477907	1.118	ppbv #	89
75) 1,3-Dichlorobenzene	17.11	146	153355	0.562	ppbv #	25
76) 1,4-Dichlorobenzene	17.25	146	279929	1.090	ppbv	98
77) 1,2-Dichlorobenzene	17.93	146	280337	1.112	ppbv	97
78) Hexachloro-1,3-Butadiene	23.49	225	268213	1.219	ppbv	99
79) Naphthalene	22.34	128	160372	0.445	ppbv	95
80) Naphthalene,2-methyl-	25.07	142	135067	1.036	ppbv	96
81) 1,2,4-Trichlorobenzene	22.07	180	135165	0.581	ppbv #	20

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

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MSVOA_L
ClientSampleId :
VSTDICC001

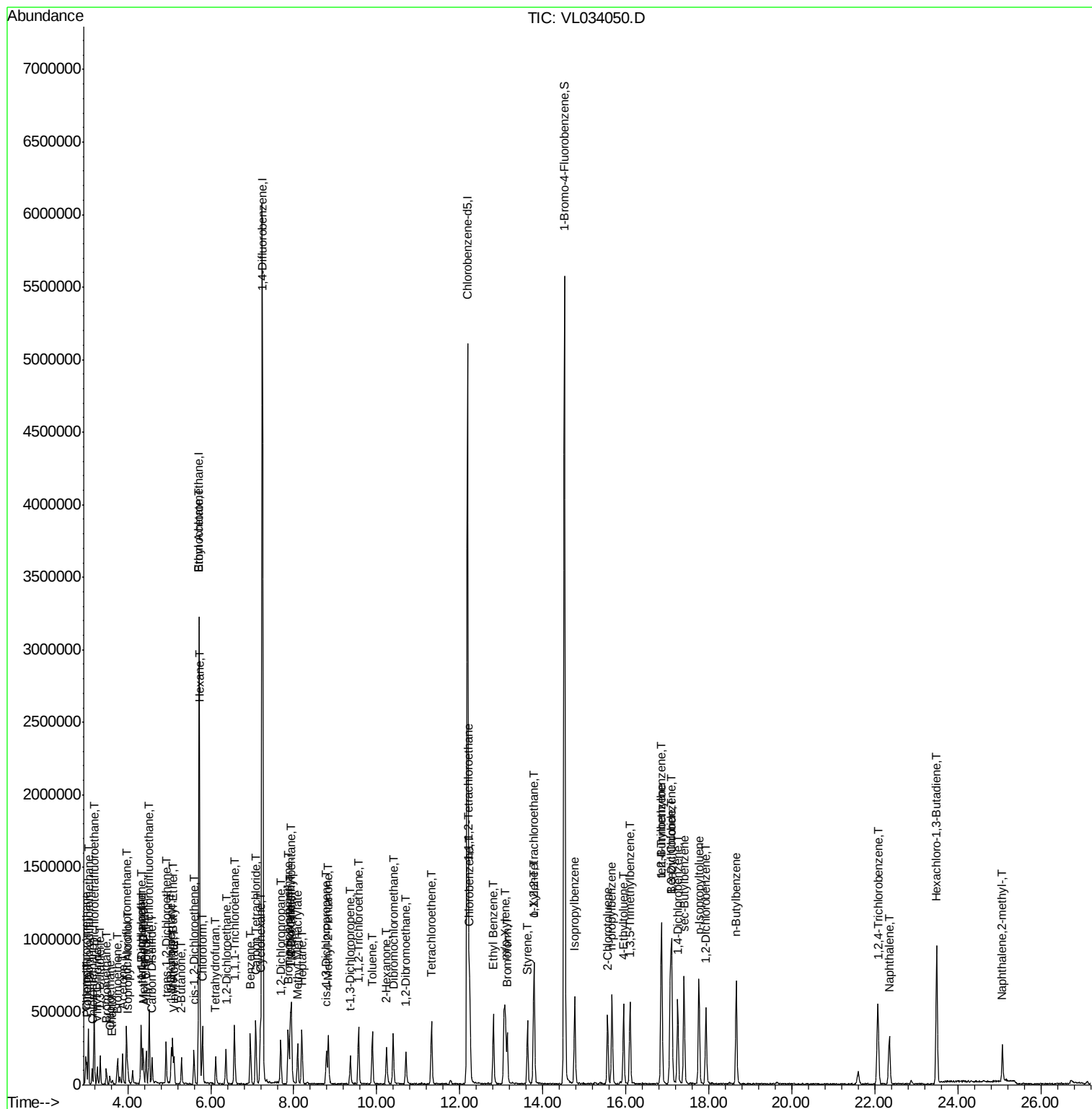
Quant Time: Jul 30 05:06:41 2019

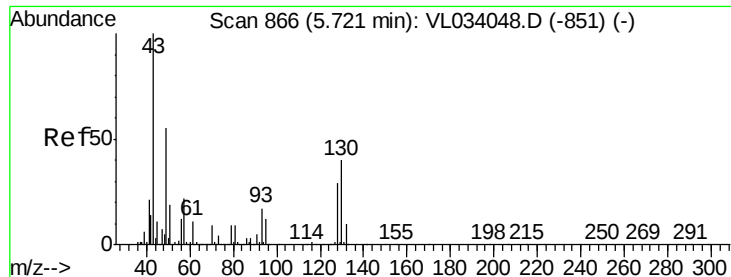
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL073019AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Jul 30 05:02:48 2019

QLast Update : Tue Jul 30 05:02:48 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 865

Delta R.T. -0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

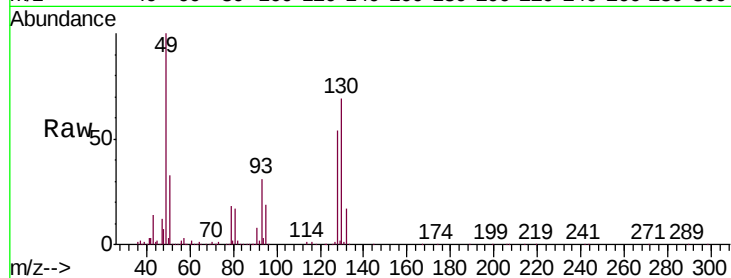
Tgt Ion: 49 Resp: 1211879

Ion Ratio Lower Upper

49 100

128 55.6 27.0 81.0

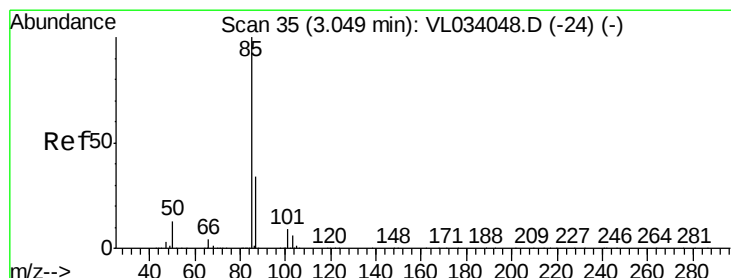
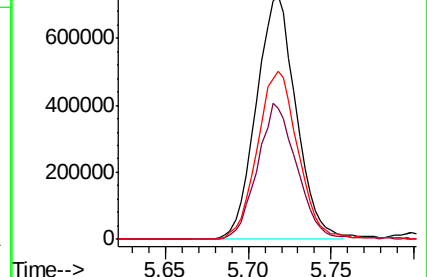
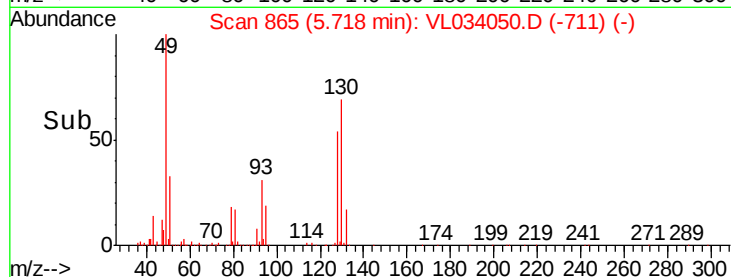
130 71.4 35.0 105.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.008 ppbv

RT: 3.05 min Scan# 36

Delta R.T. 0.00 min

Lab File: VL034050.D

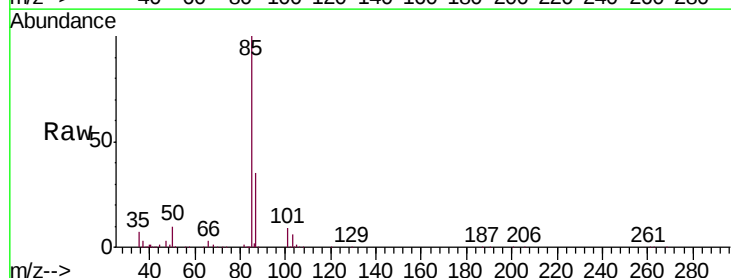
Acq: 30 Jul 2019 3:26

Tgt Ion: 85 Resp: 256529

Ion Ratio Lower Upper

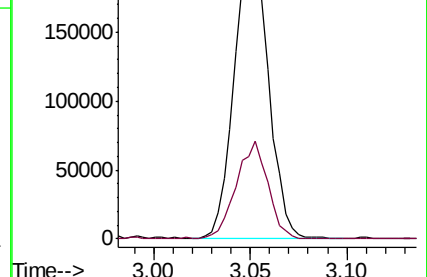
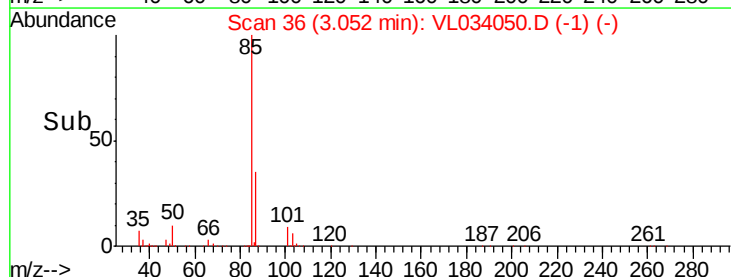
85 100

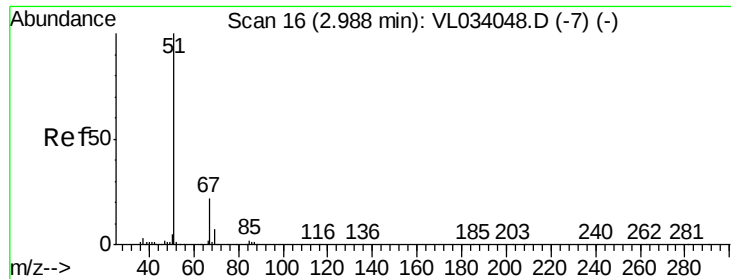
87 34.5 27.0 40.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.984 ppbv

RT: 2.99 min Scan# 16

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

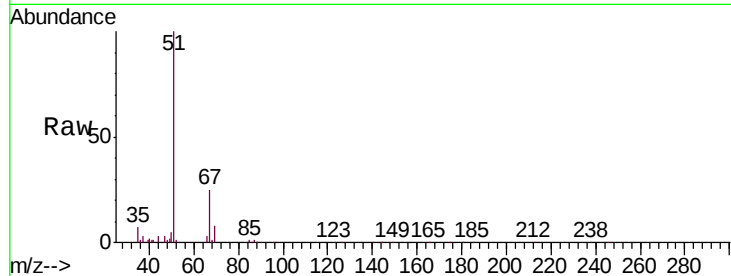
VSTDIC001

Tgt Ion: 51 Resp: 149658

Ion Ratio Lower Upper

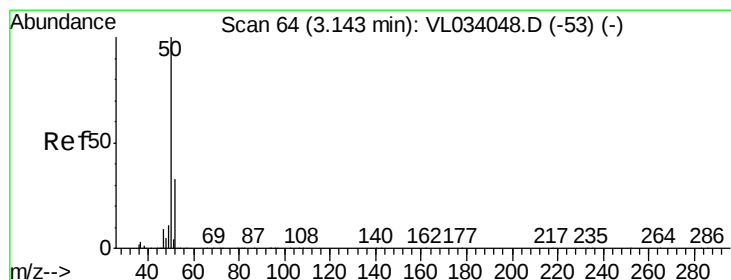
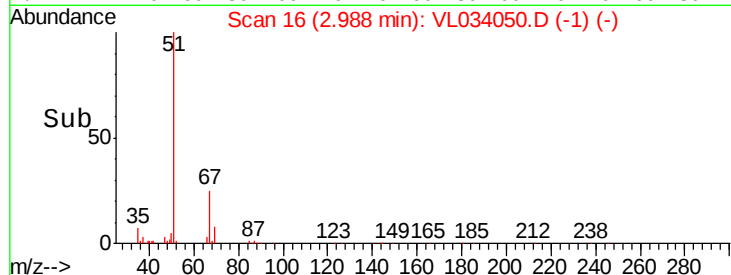
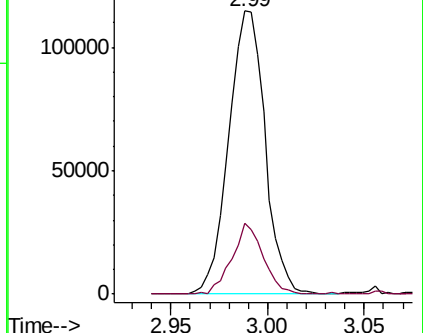
51 100

67 21.6 17.4 26.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.953 ppbv

RT: 3.14 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL034050.D

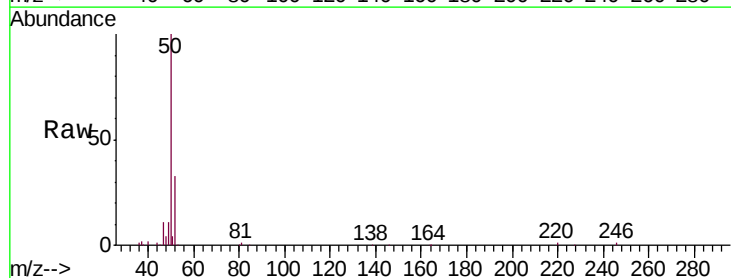
Acq: 30 Jul 2019 3:26

Tgt Ion: 50 Resp: 85150

Ion Ratio Lower Upper

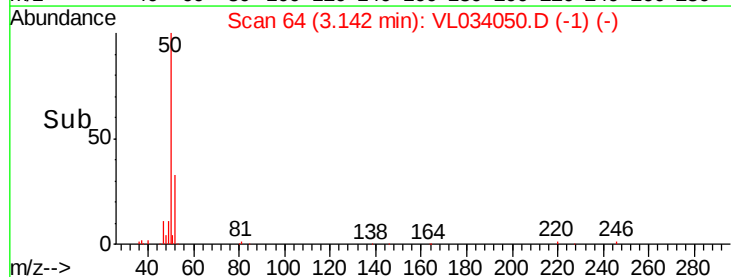
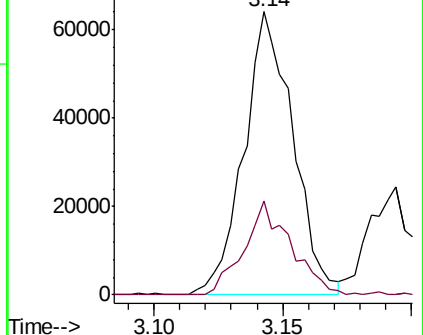
50 100

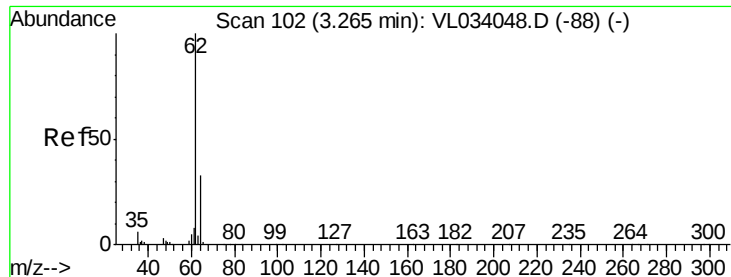
52 33.0 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.898 ppbv

RT: 3.26 min Scan# 102

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

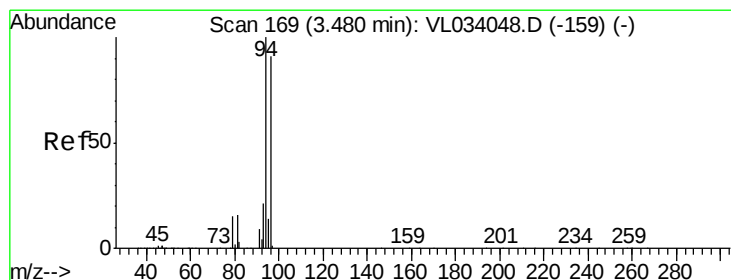
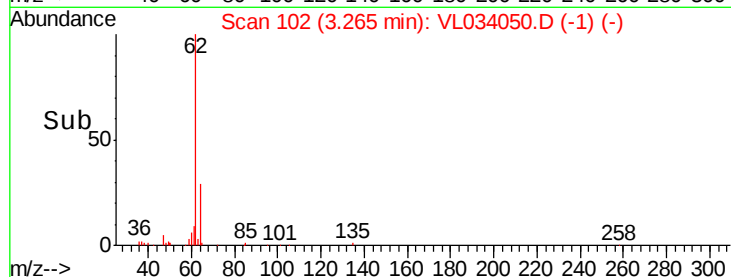
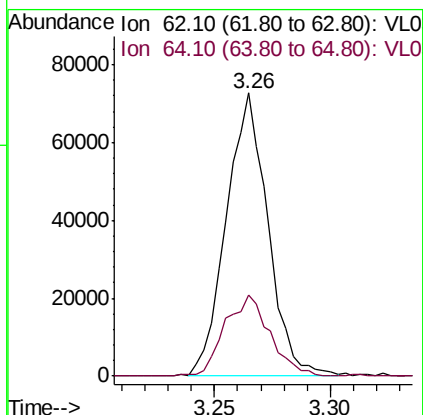
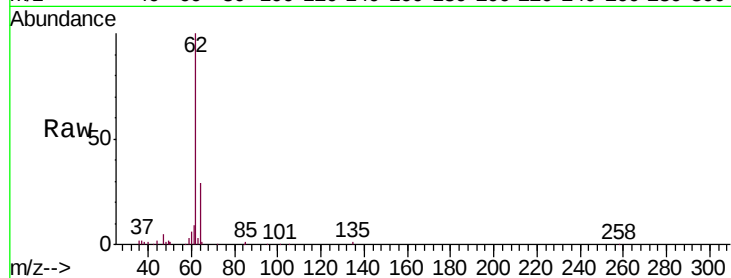
VSTDIC001

Tgt Ion: 62 Resp: 89235

Ion Ratio Lower Upper

62 100

64 28.9 26.5 39.7



#6

Bromomethane

Concen: 0.919 ppbv

RT: 3.49 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL034050.D

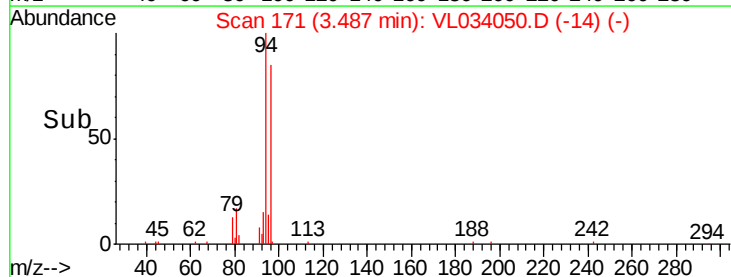
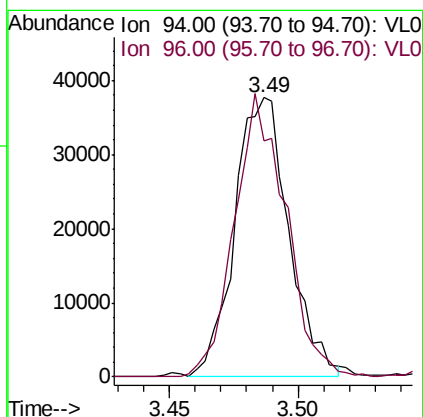
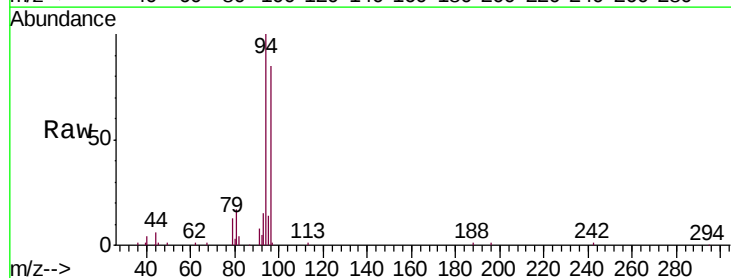
Acq: 30 Jul 2019 3:26

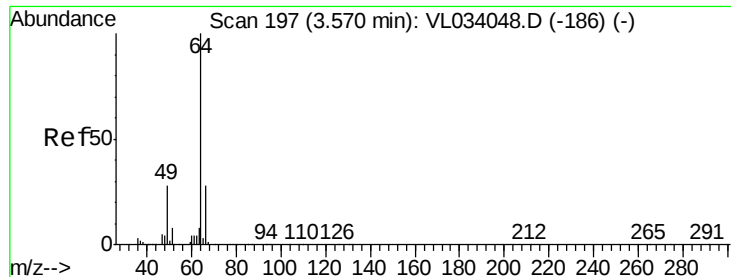
Tgt Ion: 94 Resp: 55402

Ion Ratio Lower Upper

94 100

96 83.5 72.6 108.8





#7

Chloroethane

Concen: 0.976 ppbv

RT: 3.57 min Scan# 197

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

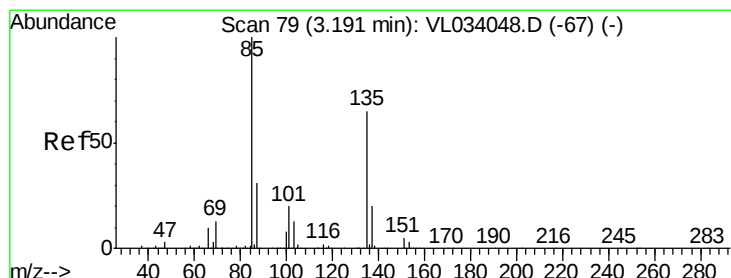
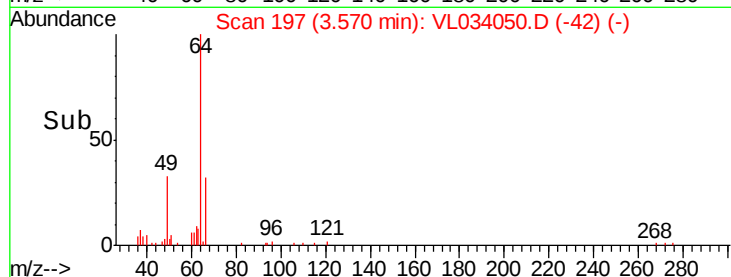
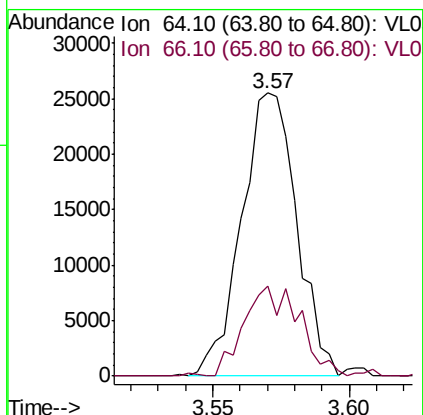
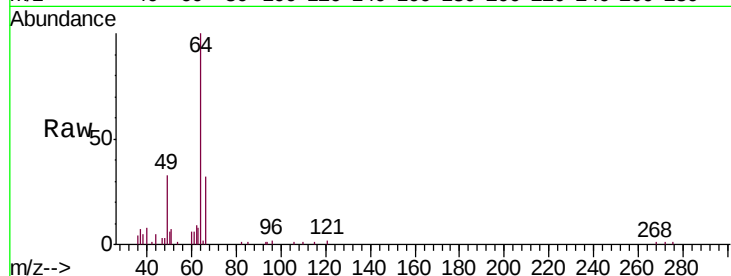
VSTDIC001

Tgt Ion: 64 Resp: 35864

Ion Ratio Lower Upper

64 100

66 32.0 22.0 33.0



#8

Dichlorotetrafluoroethane

Concen: 0.950 ppbv

RT: 3.19 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL034050.D

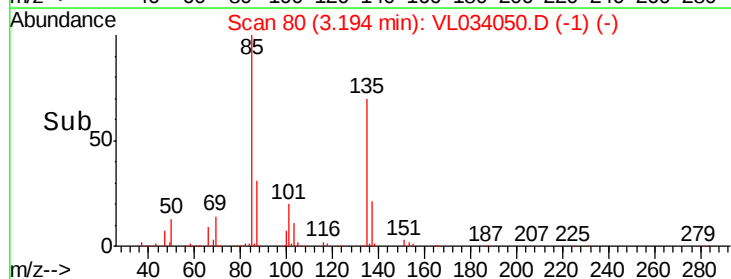
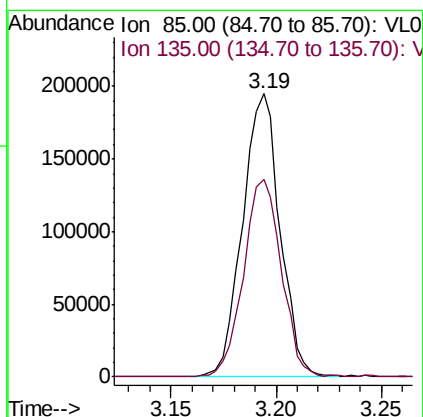
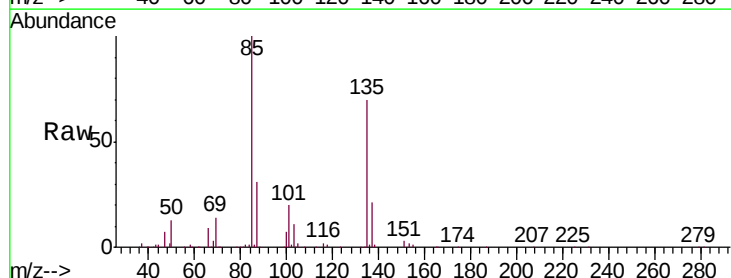
Acq: 30 Jul 2019 3:26

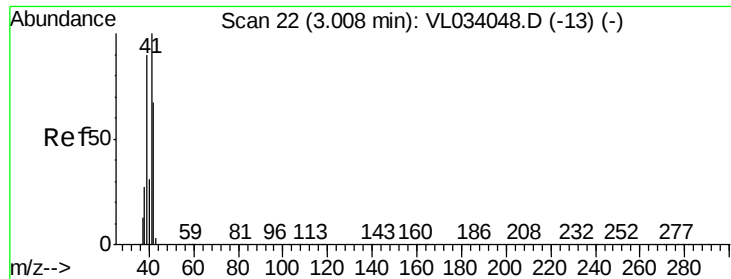
Tgt Ion: 85 Resp: 240233

Ion Ratio Lower Upper

85 100

135 70.8 54.1 81.1





#9

Propene

Concen: 0.843 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

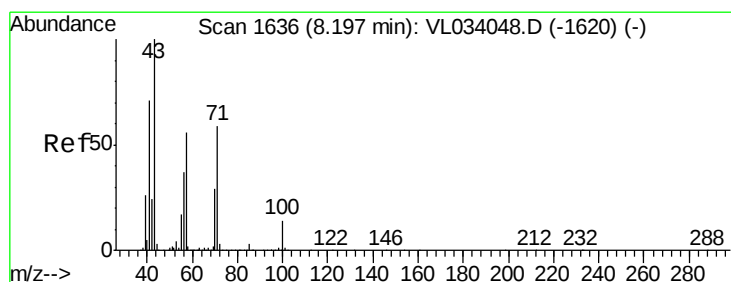
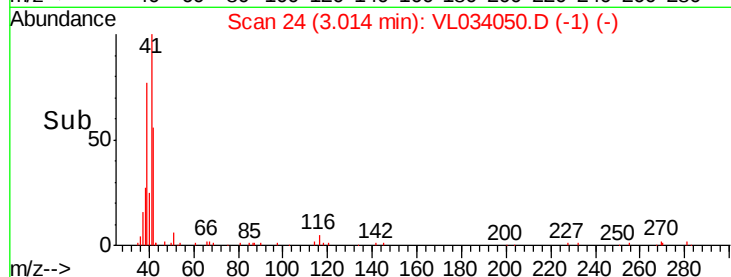
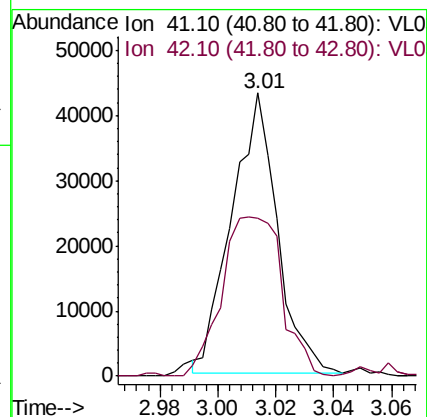
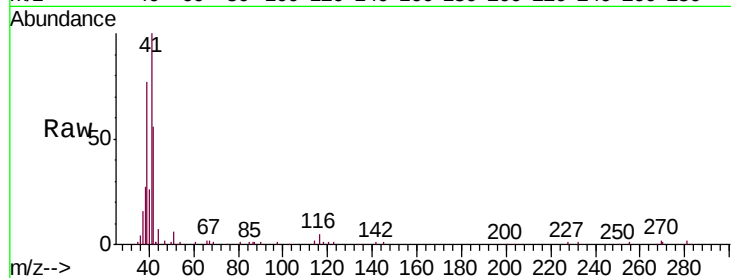
VSTDIC001

Tgt Ion: 41 Resp: 47135

Ion Ratio Lower Upper

41 100

42 77.9 55.4 83.2



#10

Heptane

Concen: 1.044 ppbv

RT: 8.20 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VL034050.D

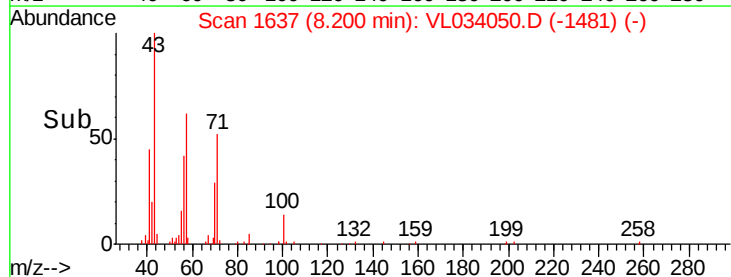
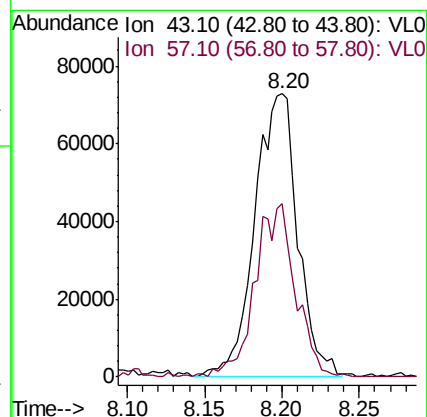
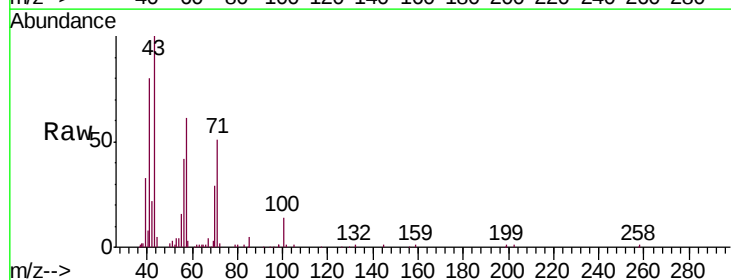
Acq: 30 Jul 2019 3:26

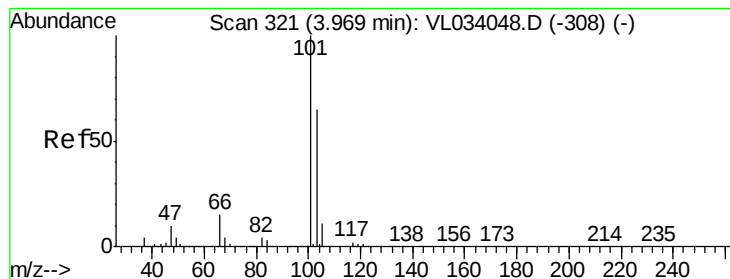
Tgt Ion: 43 Resp: 140951

Ion Ratio Lower Upper

43 100

57 57.9 44.8 67.2





#11

Trichlorofluoromethane

Concen: 0.849 ppbv

RT: 3.97 min Scan# 321

Delta R.T. -0.00 min

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ClientSampleId :

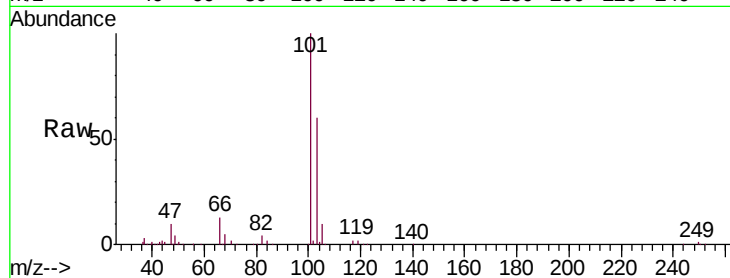
VSTDIC001

Tgt Ion:101 Resp: 249528

Ion Ratio Lower Upper

101 100

103 59.8 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.97

200000

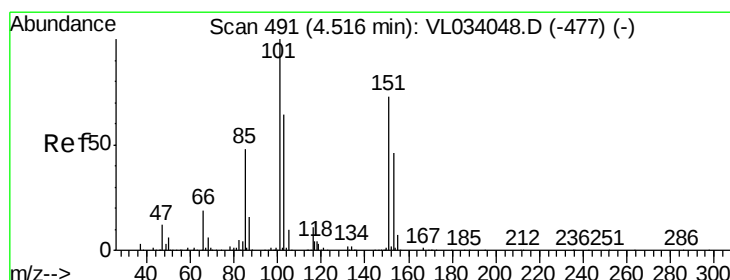
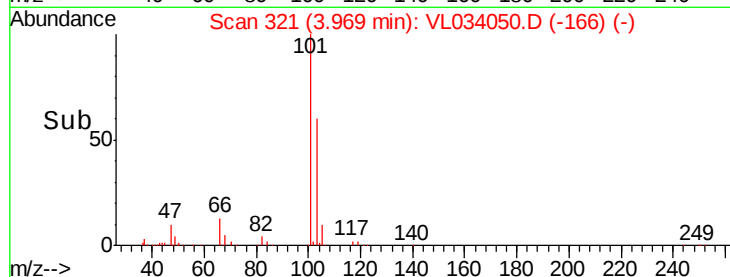
150000

100000

50000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.892 ppbv

RT: 4.52 min Scan# 491

Delta R.T. -0.00 min

Lab File: VL034050.D

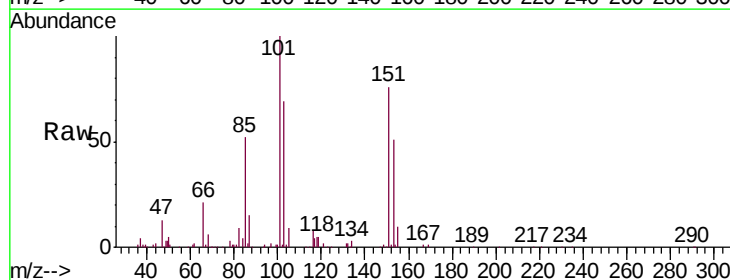
Acq: 30 Jul 2019 3:26

Tgt Ion:101 Resp: 174500

Ion Ratio Lower Upper

101 100

151 73.2 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.52

120000

100000

80000

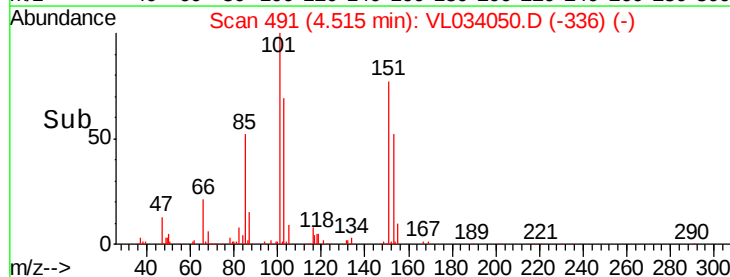
60000

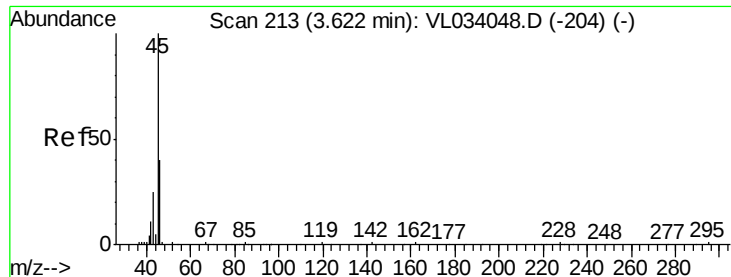
40000

20000

0

Time-->





#13

Ethanol

Concen: 1.280 ppbv

RT: 3.62 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

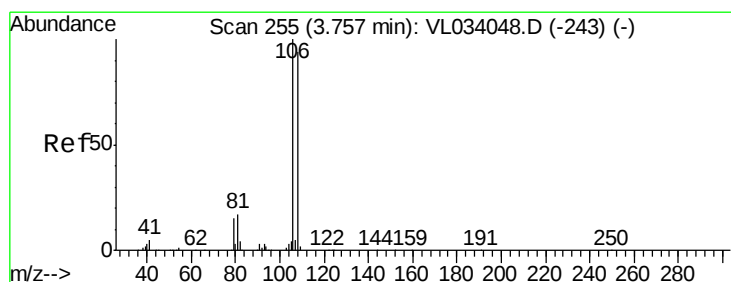
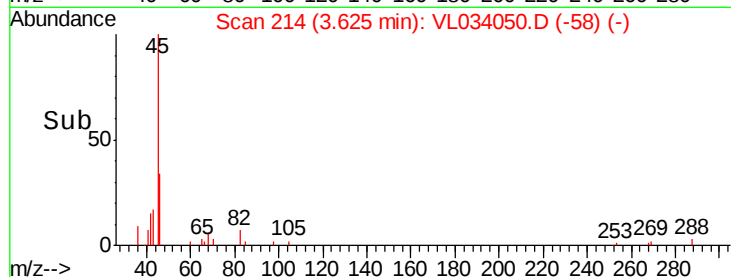
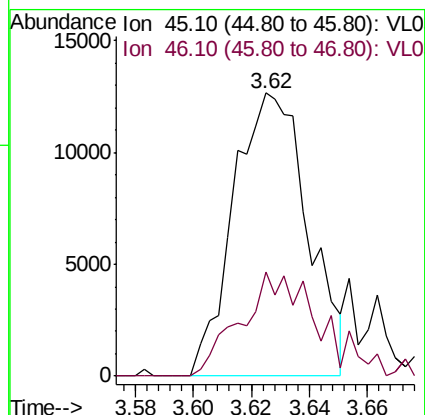
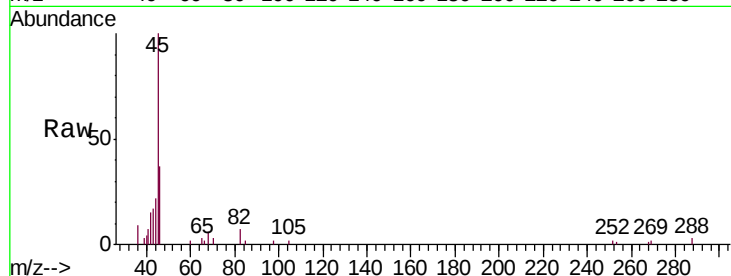
VSTDIC001

Tgt Ion: 45 Resp: 22479

Ion Ratio Lower Upper

45 100

46 38.6 15.6 62.2



#14

Bromoethene

Concen: 0.931 ppbv

RT: 3.76 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

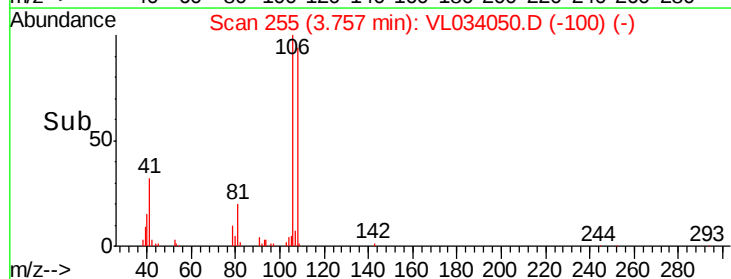
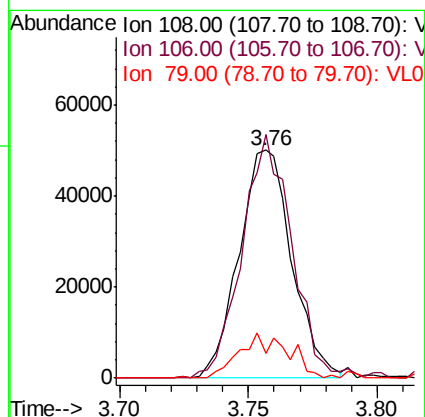
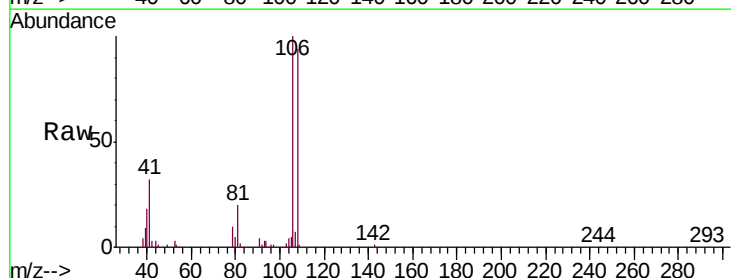
Tgt Ion: 108 Resp: 71039

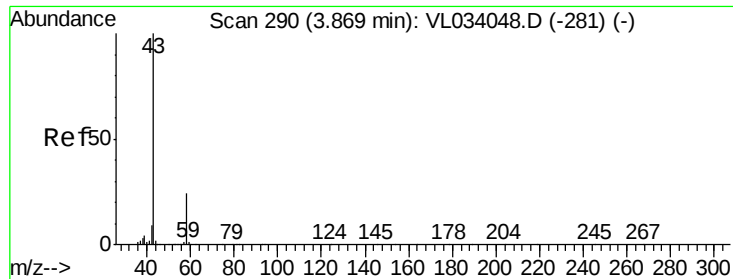
Ion Ratio Lower Upper

108 100

106 102.2 86.2 129.2

79 19.1 13.7 20.5





#15

Acetone

Concen: 0.899 ppbv

RT: 3.88 min Scan# 292

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

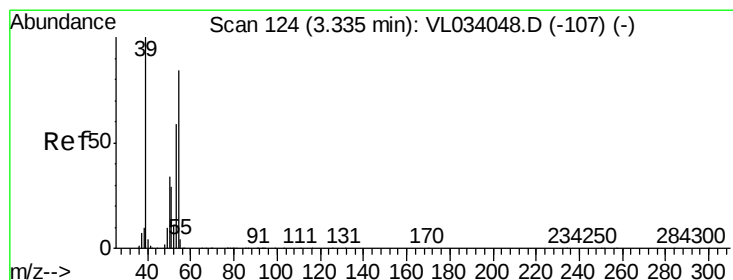
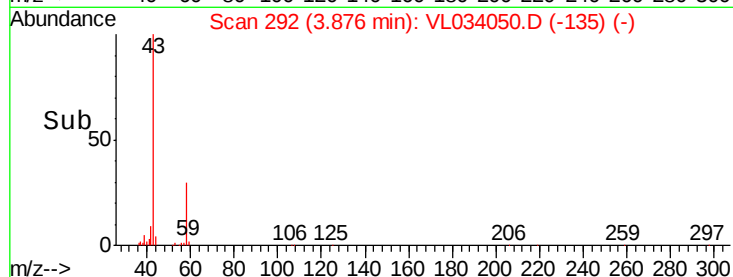
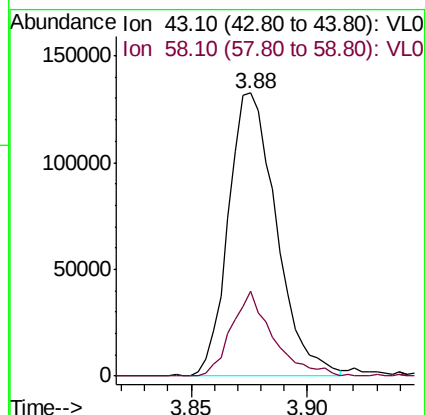
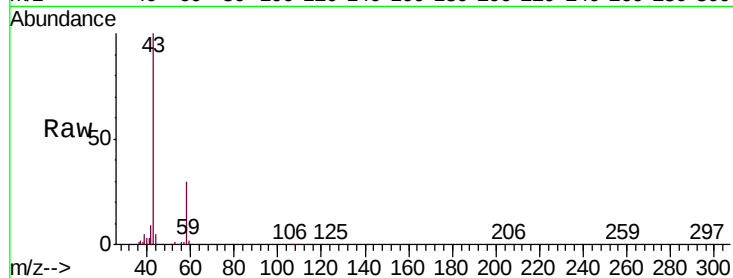
VSTDIC001

Tgt Ion: 43 Resp: 190570

Ion Ratio Lower Upper

43 100

58 26.3 21.6 32.4



#16

1,3-Butadiene

Concen: 0.809 ppbv

RT: 3.34 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL034050.D

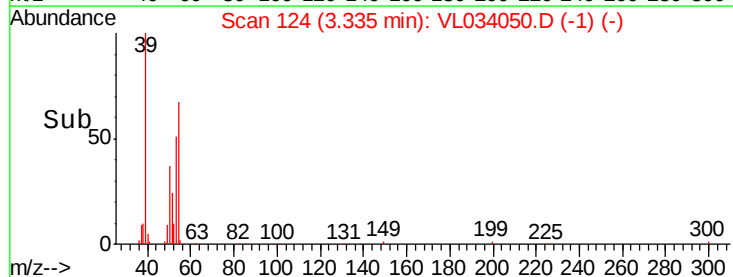
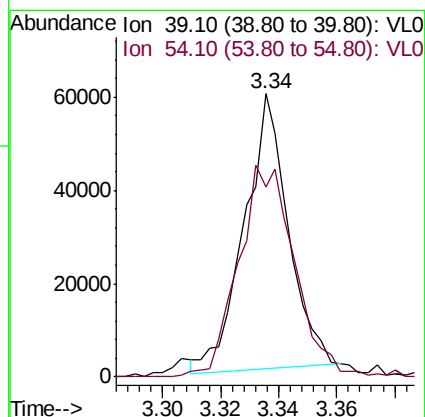
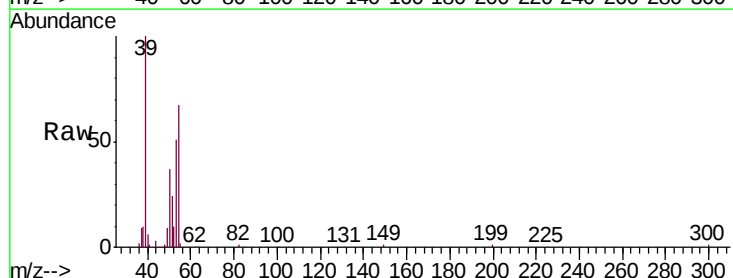
Acq: 30 Jul 2019 3:26

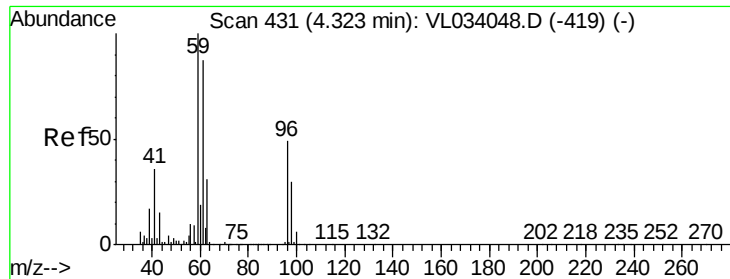
Tgt Ion: 39 Resp: 62065

Ion Ratio Lower Upper

39 100

54 99.1 68.9 103.3



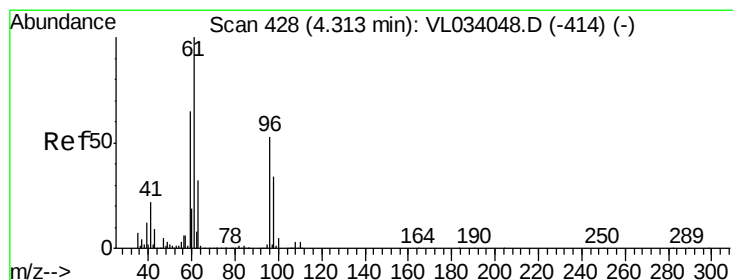
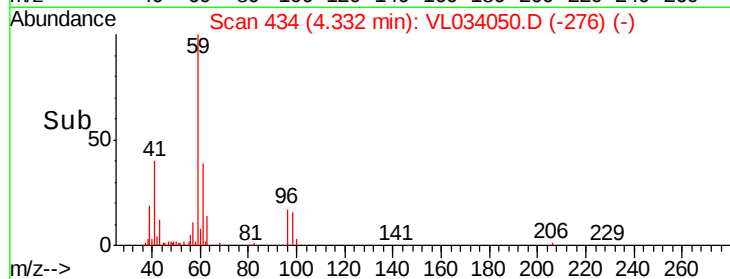
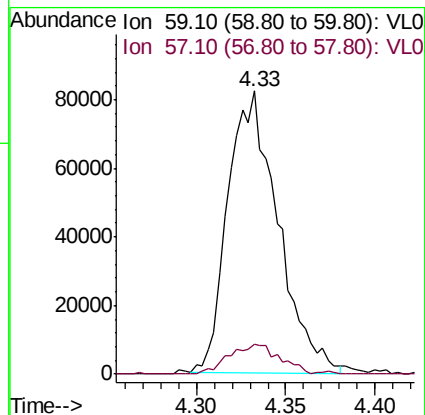
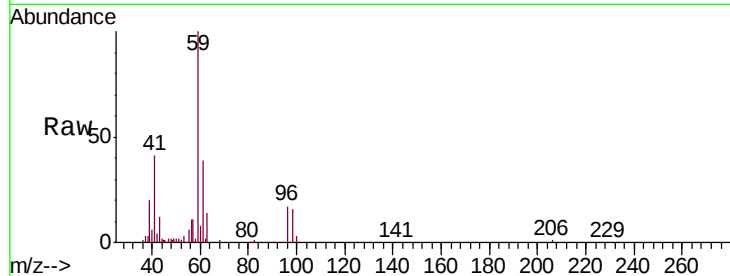


#17

tert-Butyl alcohol
 Concen: 0.991 ppbv
 RT: 4.33 min Scan# 434
 Delta R.T. 0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

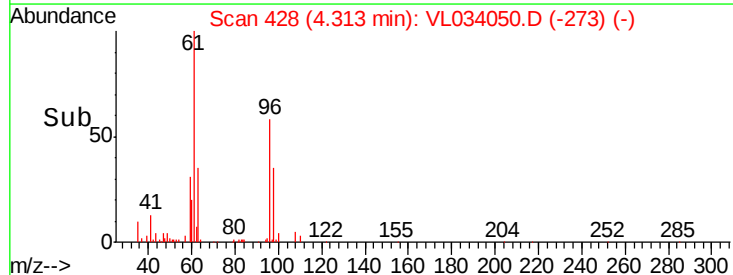
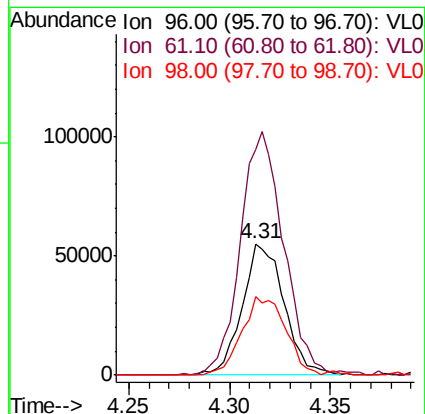
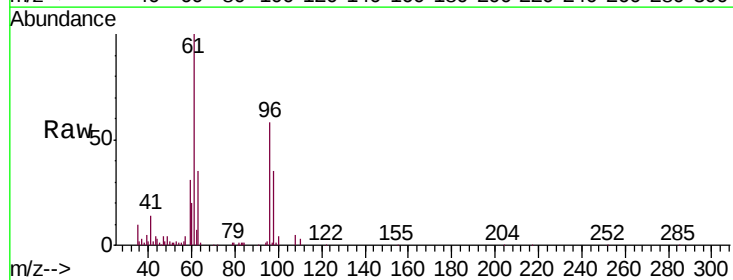
Tgt Ion: 59 Resp: 160138
 Ion Ratio Lower Upper
 59 100
 57 11.1 8.2 12.4

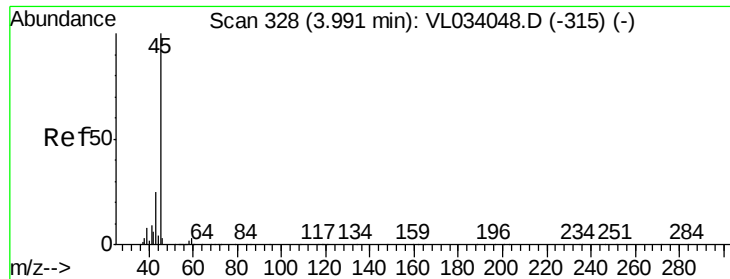


#18

1,1-Dichloroethene
 Concen: 0.918 ppbv
 RT: 4.31 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 96 Resp: 80392
 Ion Ratio Lower Upper
 96 100
 61 172.0 151.5 227.3
 98 60.2 52.2 78.2





#19

Isopropyl Alcohol

Concen: 0.916 ppbv

RT: 4.00 min Scan# 330

Delta R.T. 0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

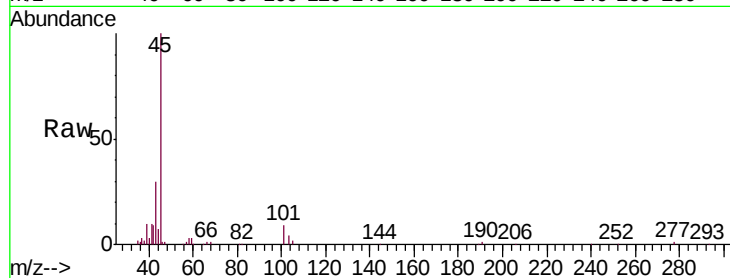
VSTDIC001

Tgt Ion: 45 Resp: 130611

Ion Ratio Lower Upper

45 100

58 4.0 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.00

80000

60000

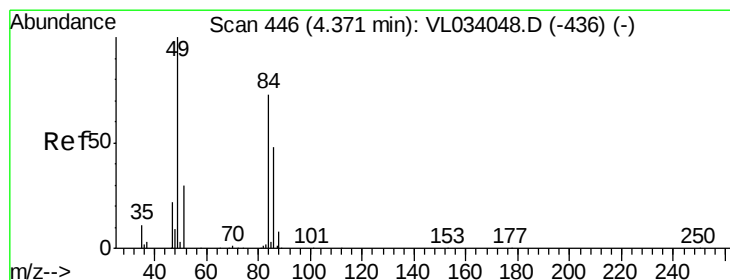
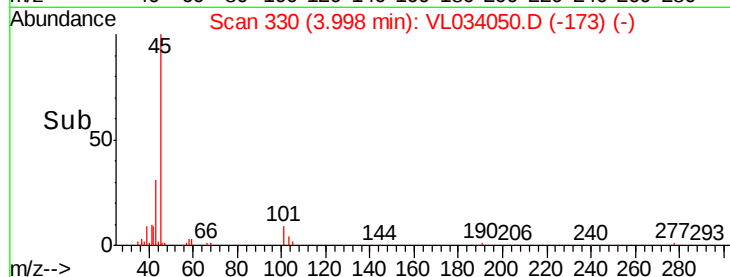
40000

20000

0

Time-->

3.95 4.00 4.05



#20

Methylene Chloride

Concen: 0.850 ppbv

RT: 4.37 min Scan# 445

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion: 84 Resp: 74243

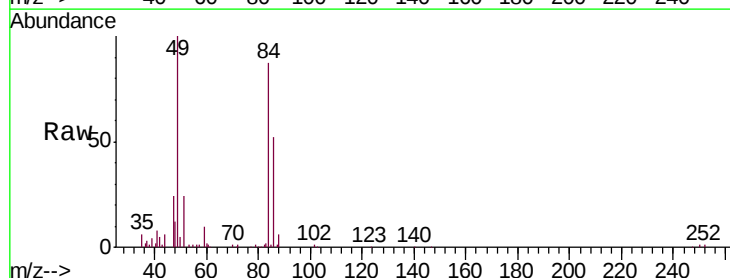
Ion Ratio Lower Upper

84 100

49 111.5 109.6 164.4

51 25.5 33.4 50.2#

86 60.3 52.6 78.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

100000

80000

60000

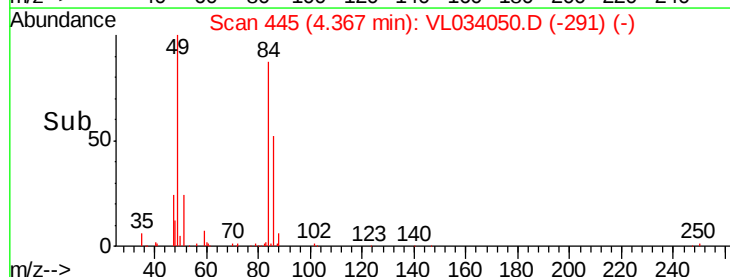
40000

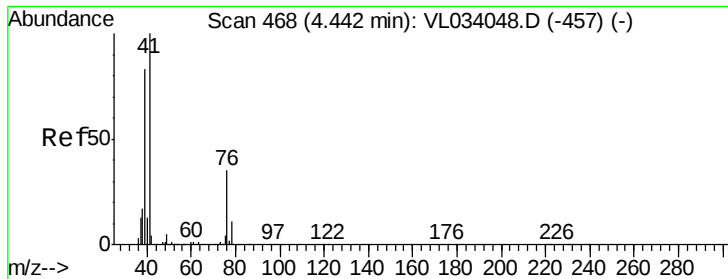
20000

0

Time-->

4.35 4.40





#21

Allyl Chloride

Concen: 0.946 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

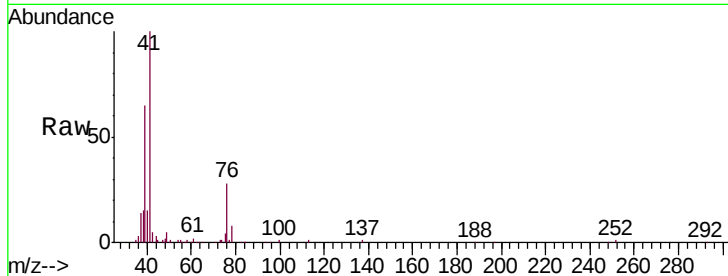
Tgt Ion: 41 Resp: 118407

Ion Ratio Lower Upper

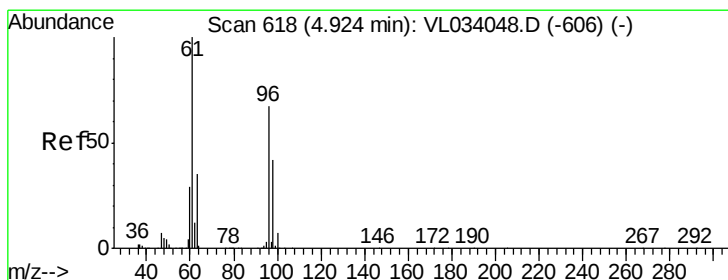
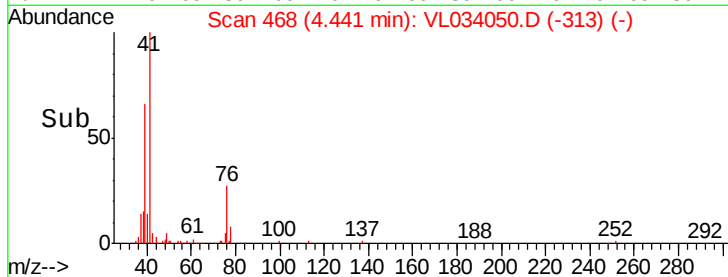
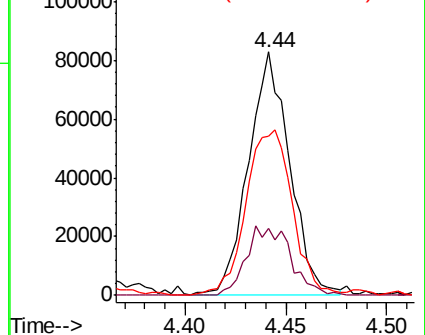
41 100

76 30.4 26.1 39.1

39 78.8 65.0 97.6



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.951 ppbv

RT: 4.92 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

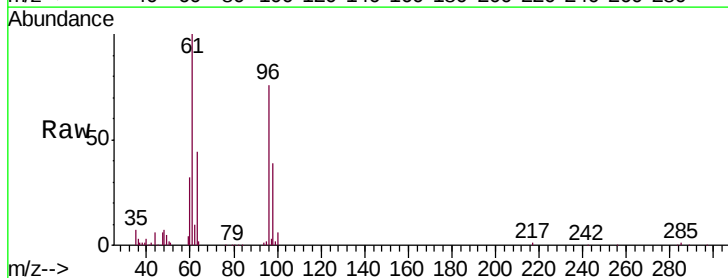
Tgt Ion: 96 Resp: 79370

Ion Ratio Lower Upper

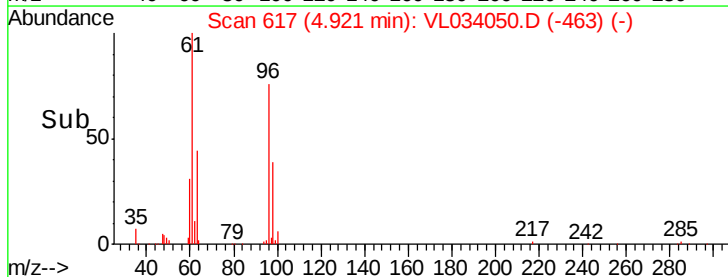
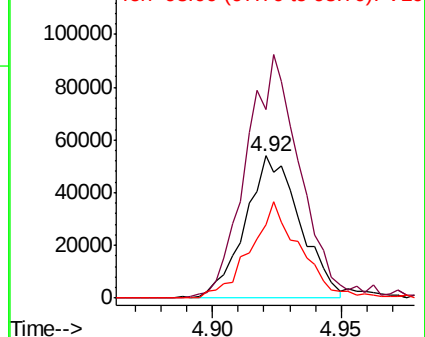
96 100

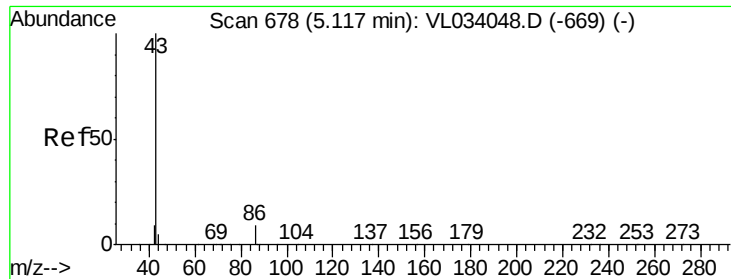
61 131.8 118.6 177.8

98 52.1 49.7 74.5



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

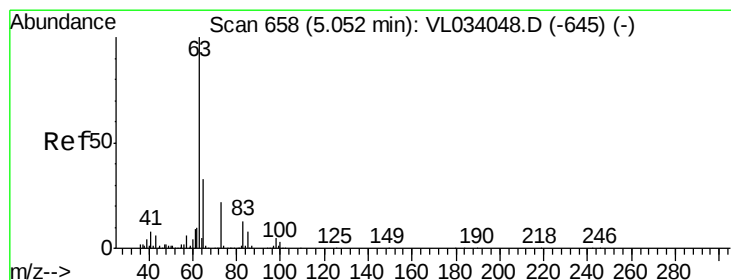
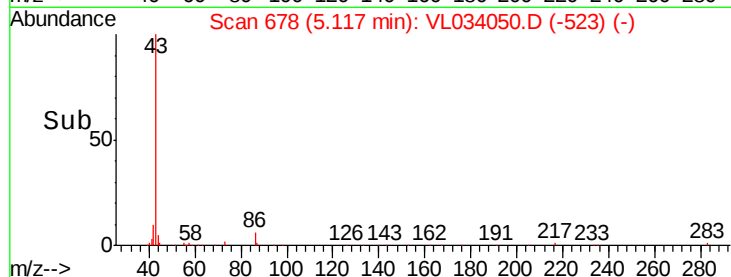
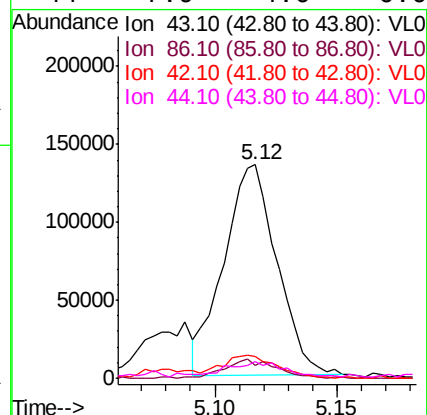
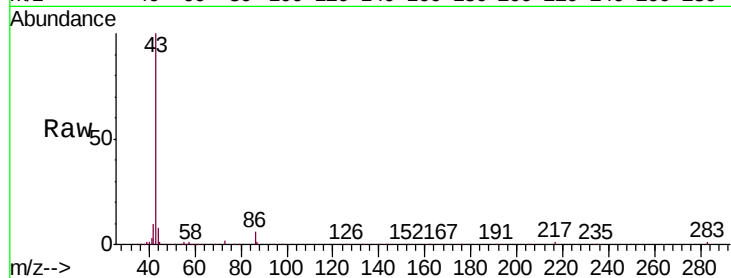




#23
 Vinyl Acetate
 Concen: 1.030 ppbv
 RT: 5.12 min Scan# 678
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

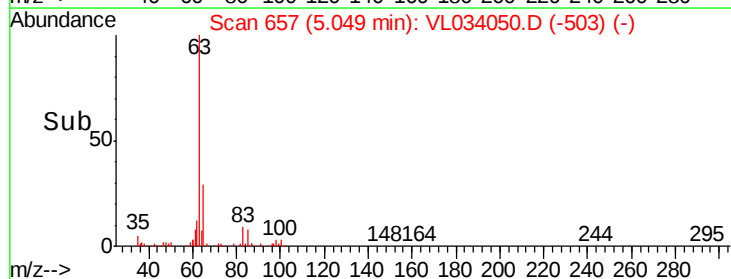
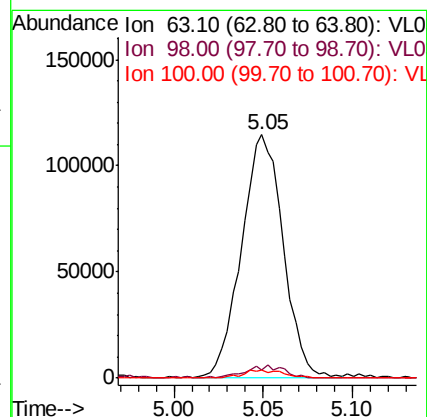
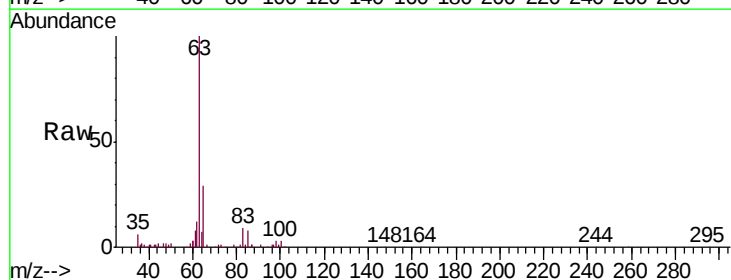
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

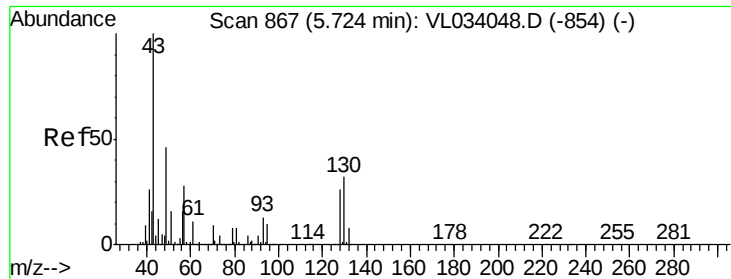
Tgt Ion:	43	Resp:	205512
Ion	Ratio	Lower	Upper
43	100		
86	5.7	6.5	9.7#
42	9.7	8.3	12.5
44	7.9	4.0	6.0#



#24
 1,1-Dichloroethane
 Concen: 1.045 ppbv
 RT: 5.05 min Scan# 657
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion:	63	Resp:	186634
Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.4	7.2
100	3.5	1.3	3.9

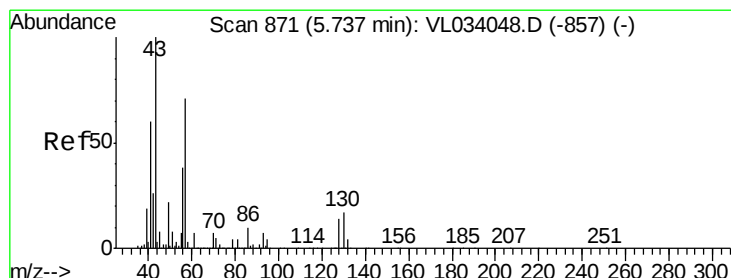
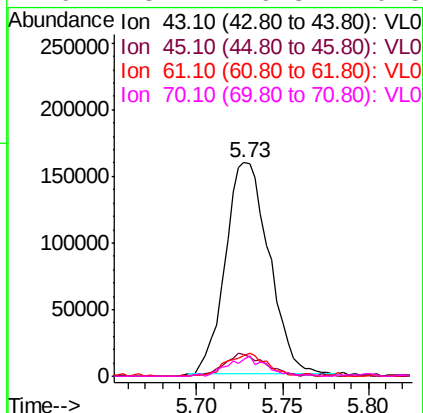
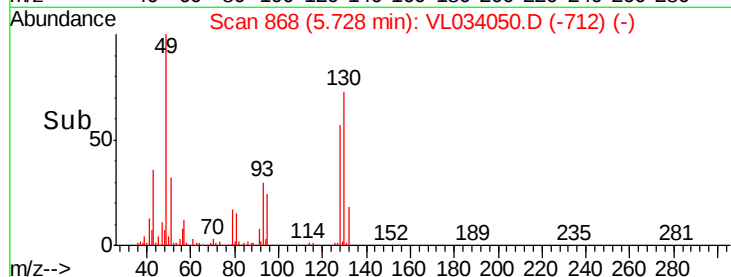
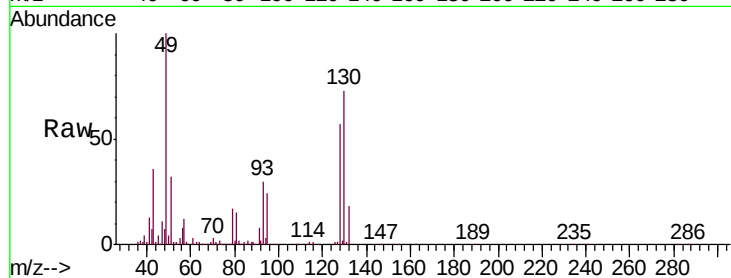




#25
Ethyl Acetate
Concen: 1.023 ppbv
RT: 5.73 min Scan# 868
Delta R.T. 0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

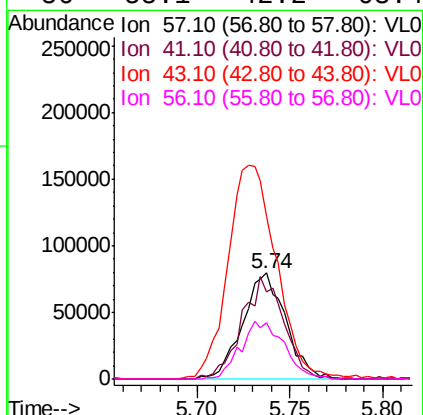
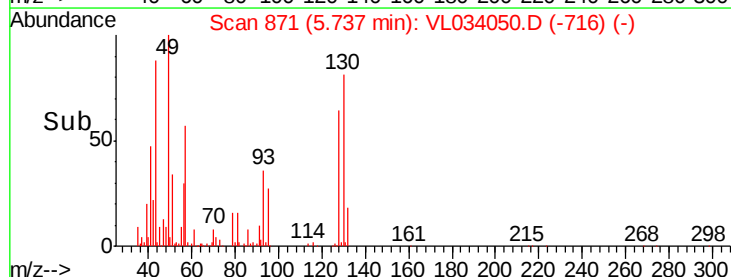
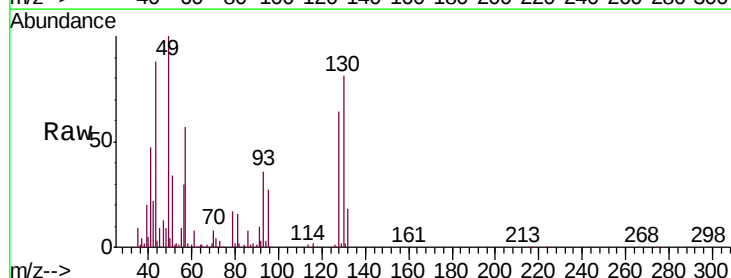
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

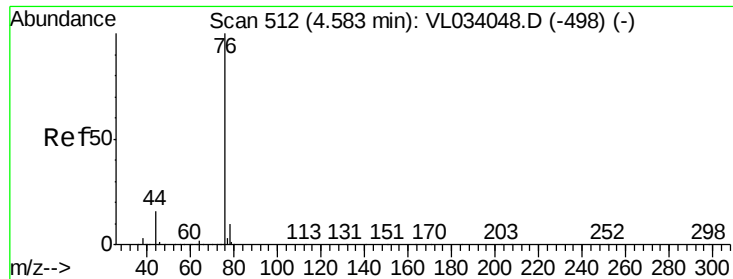
Tgt Ion:	43	Resp:	281643
Ion	Ratio	Lower	Upper
43	100		
45	10.7	8.1	12.1
61	10.1	8.1	12.1
70	8.1	6.3	9.5



#26
Hexane
Concen: 1.013 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion:	57	Resp:	127771
Ion	Ratio	Lower	Upper
57	100		
41	93.9	69.0	103.6
43	230.5	176.6	264.8
56	55.1	42.2	63.4





#27

Carbon Disulfide

Concen: 0.866 ppbv

RT: 4.58 min Scan# 512

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

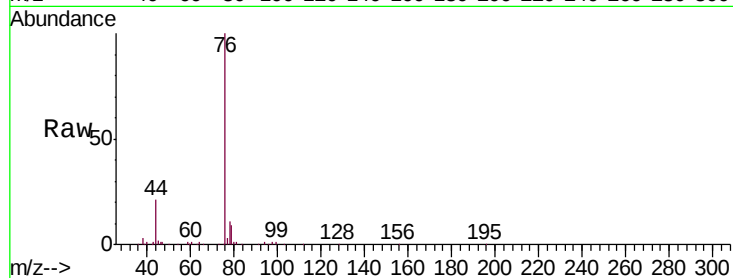
Tgt Ion: 76 Resp: 184043

Ion Ratio Lower Upper

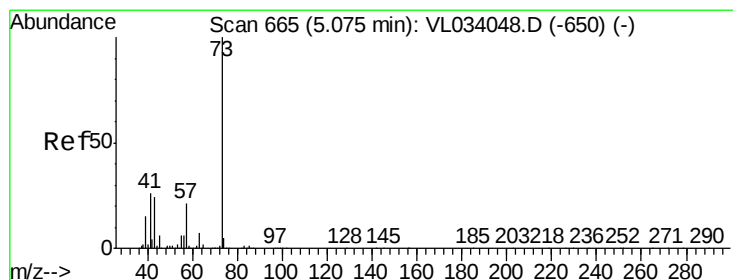
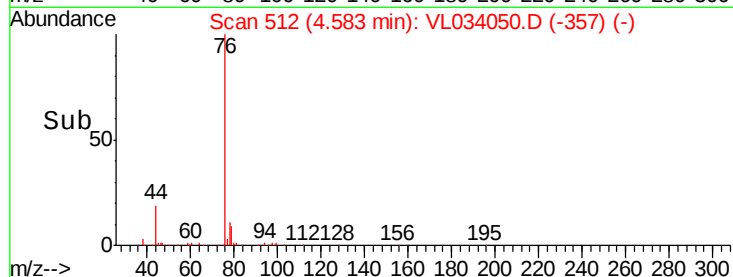
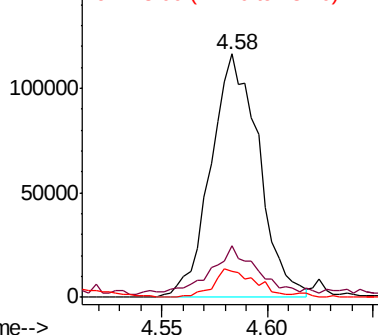
76 100

44 20.9 13.0 19.4#

78 10.9 7.7 11.5



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 1.001 ppbv

RT: 5.08 min Scan# 668

Delta R.T. 0.01 min

Lab File: VL034050.D

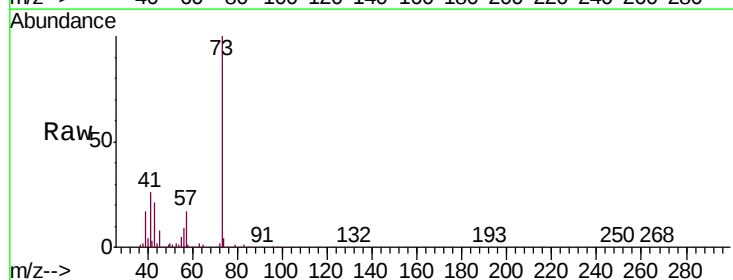
Acq: 30 Jul 2019 3:26

Tgt Ion: 73 Resp: 213191

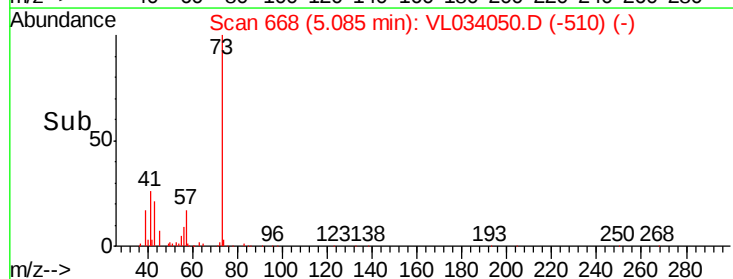
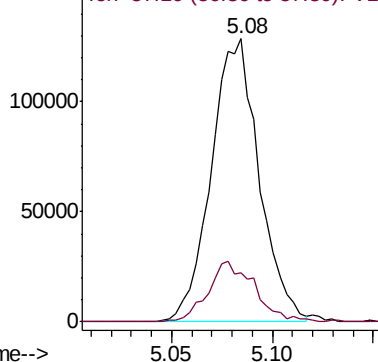
Ion Ratio Lower Upper

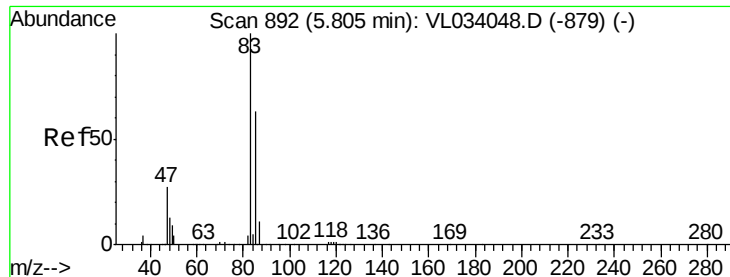
73 100

57 21.1 17.2 25.8



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.037 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

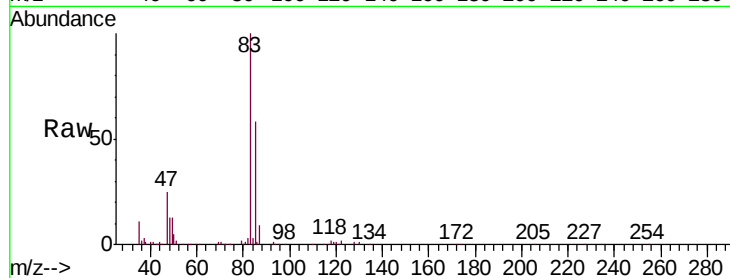
VSTDIC001

Tgt Ion: 83 Resp: 245483

Ion Ratio Lower Upper

83 100

85 58.2 50.2 75.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

150000

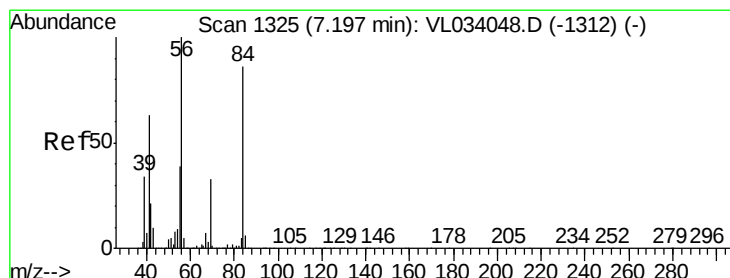
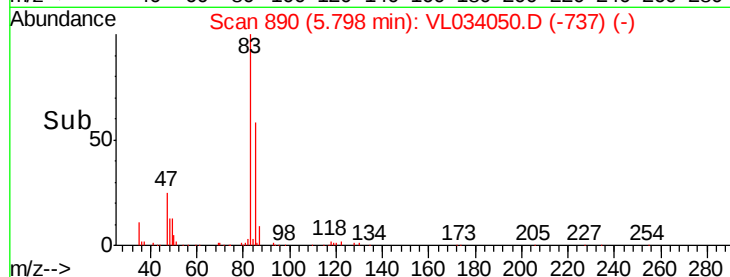
100000

50000

0

5.75 5.80 5.85

Time-->



#30

Cyclohexane

Concen: 0.721 ppbv

RT: 7.20 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

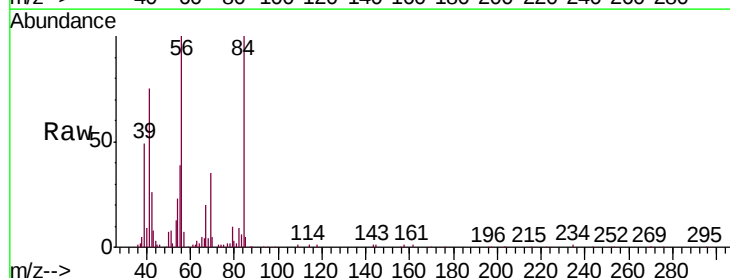
Tgt Ion: 84 Resp: 74499

Ion Ratio Lower Upper

84 100

56 207.4 101.7 152.5#

41 0.0 59.4 89.0#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

100000

80000

60000

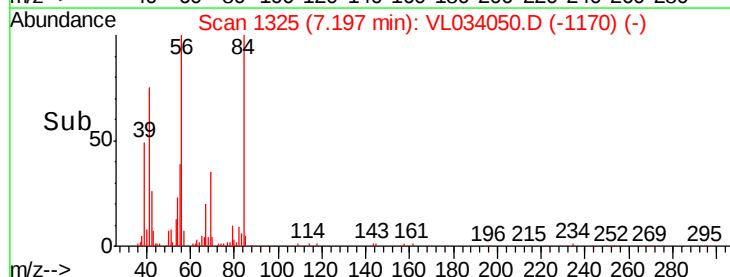
40000

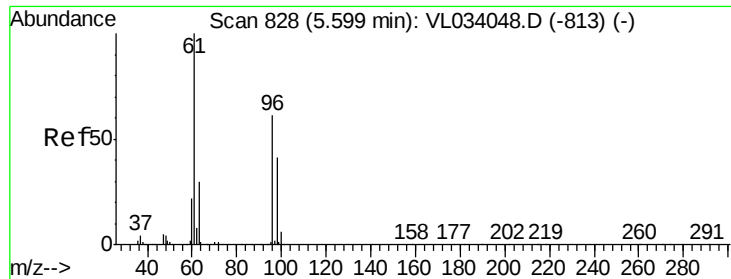
20000

0

7.16 7.18 7.20

Time-->





#31

cis-1,2-Dichloroethene

Concen: 0.989 ppbv

RT: 5.60 min Scan# 828

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

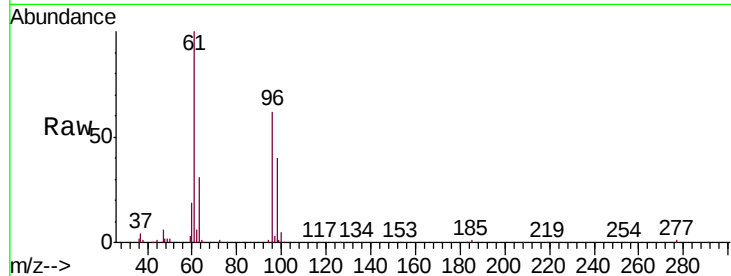
Tgt Ion: 61 Resp: 120059

Ion Ratio Lower Upper

61 100

96 61.1 49.1 73.7

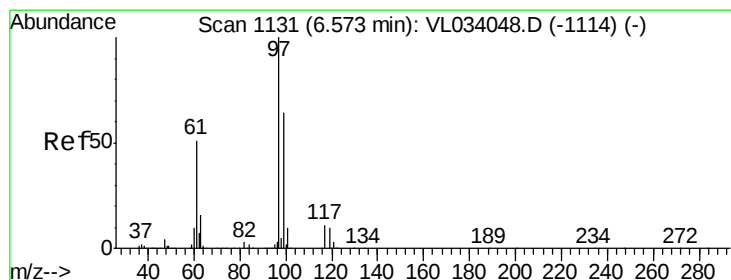
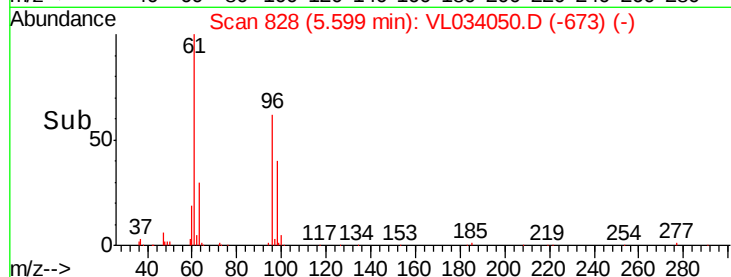
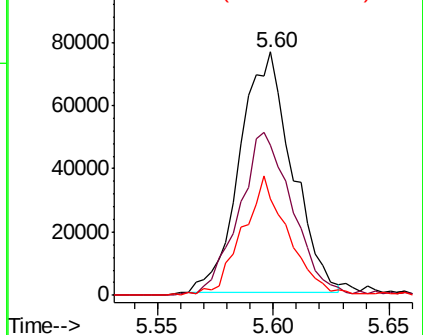
98 39.1 32.5 48.7



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 1.001 ppbv

RT: 6.57 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

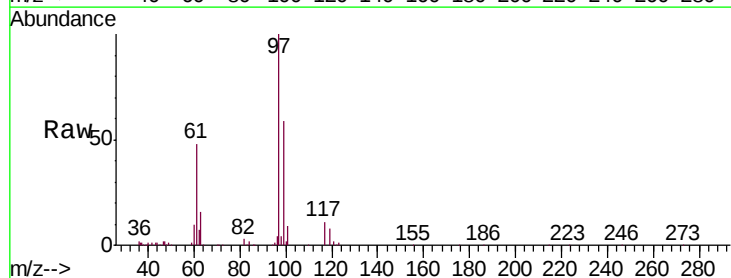
Tgt Ion: 97 Resp: 240062

Ion Ratio Lower Upper

97 100

99 65.3 51.0 76.6

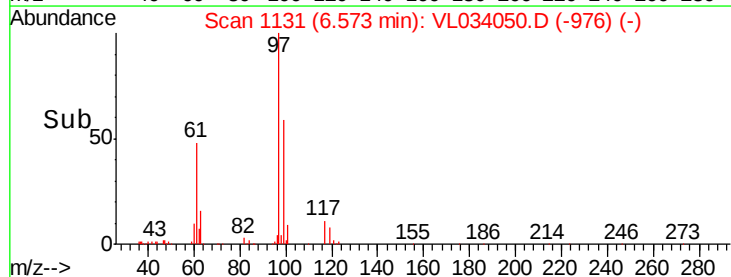
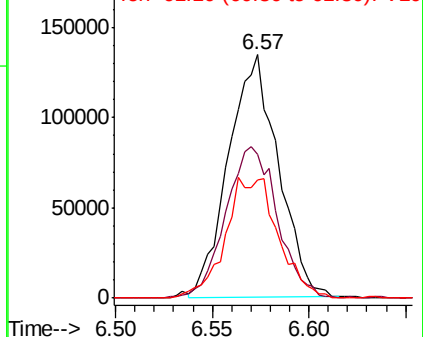
61 52.7 39.5 59.3

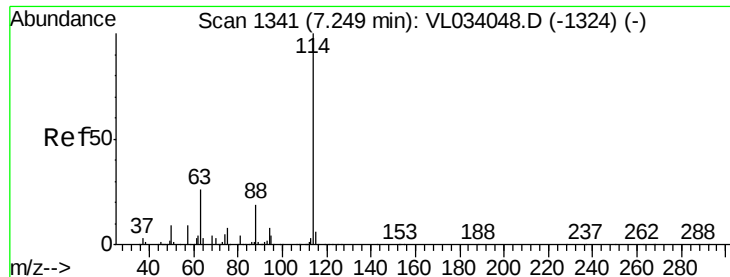


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

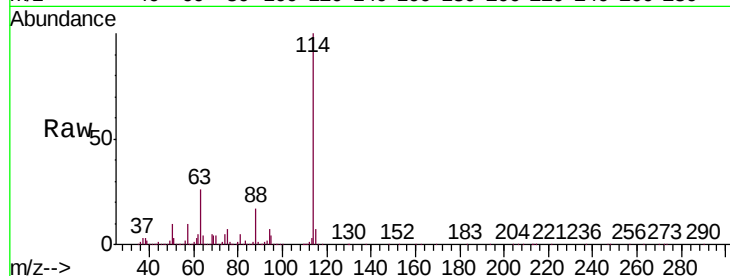




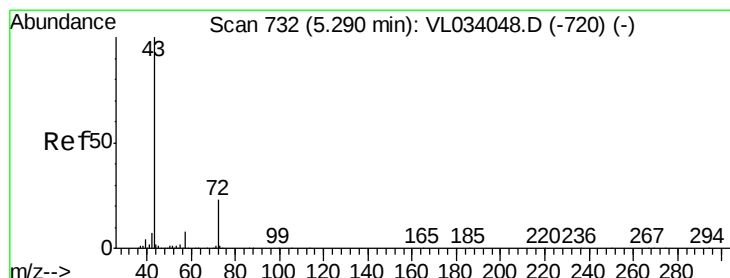
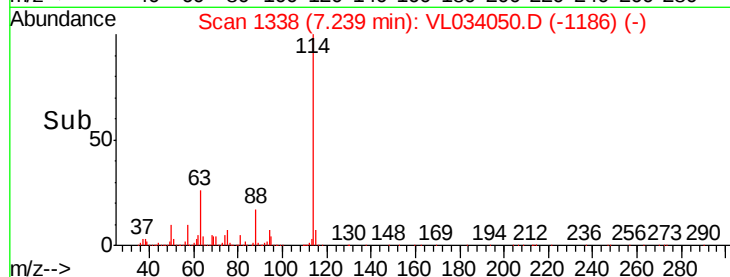
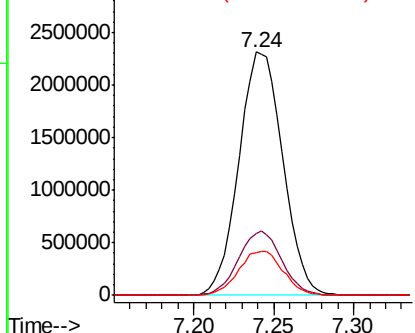
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 114 Resp: 4333172
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.0 31.6
 88 18.4 14.7 22.1

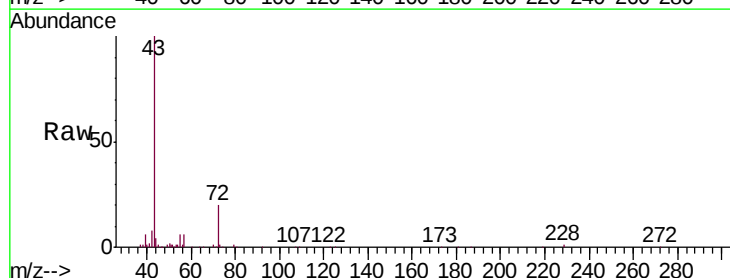


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

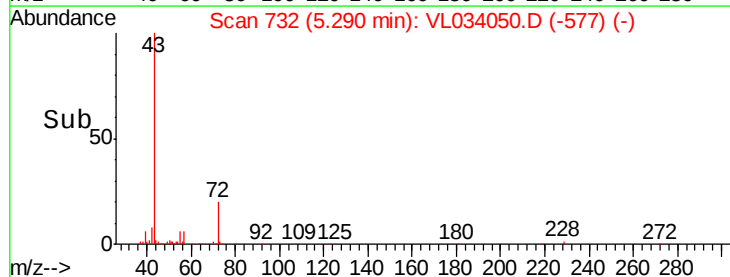
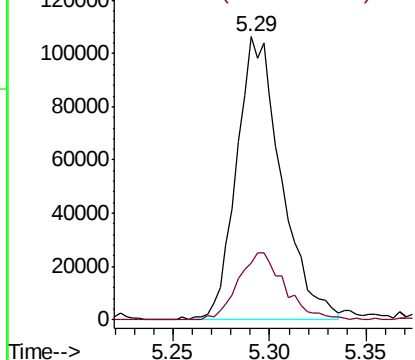


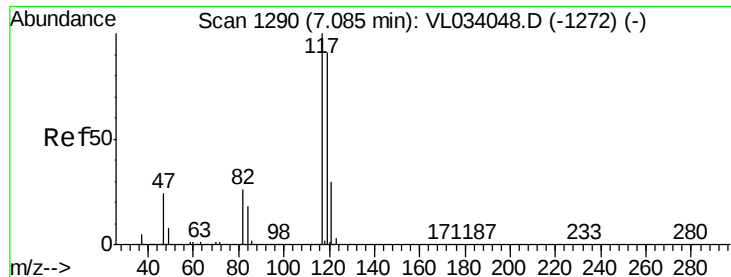
#34
 2-Butanone
 Concen: 0.790 ppbv
 RT: 5.29 min Scan# 732
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 43 Resp: 169576
 Ion Ratio Lower Upper
 43 100
 72 24.9 20.2 30.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.803 ppbv

RT: 7.08 min Scan# 1290

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

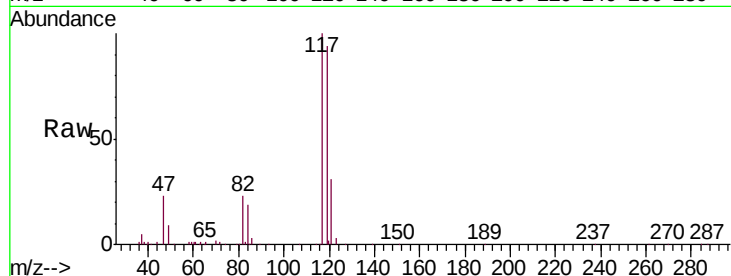
Tgt Ion: 117 Resp: 262740

Ion Ratio Lower Upper

117 100

119 93.5 73.2 109.8

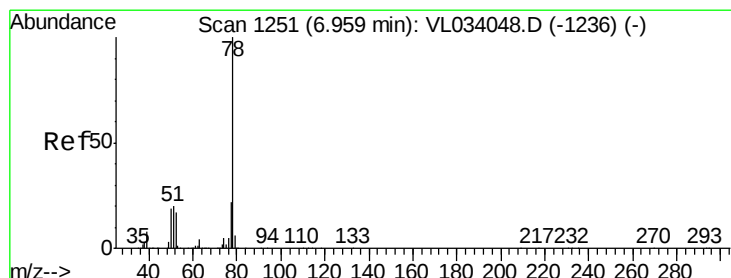
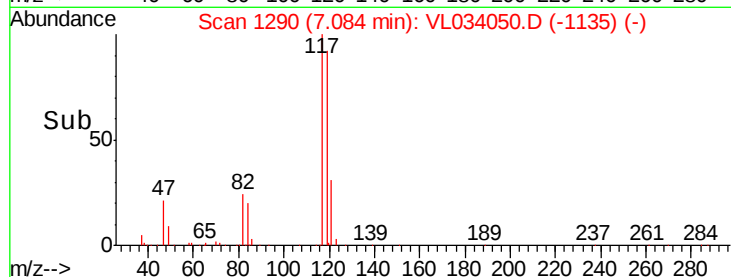
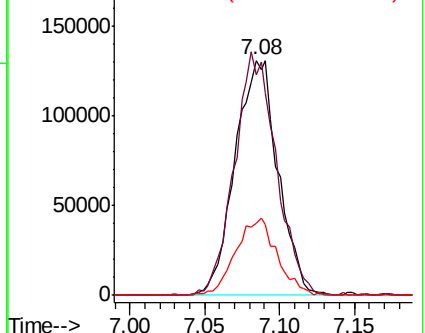
121 30.7 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.848 ppbv

RT: 6.95 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

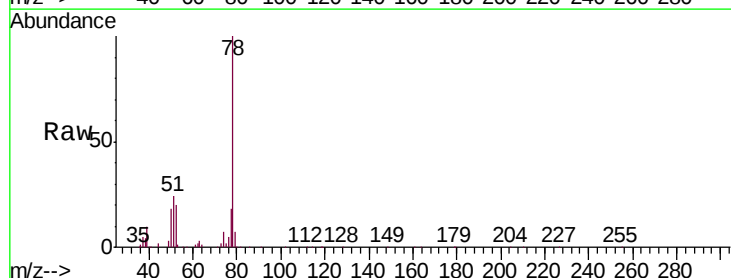
Tgt Ion: 78 Resp: 266670

Ion Ratio Lower Upper

78 100

77 18.4 17.9 26.9

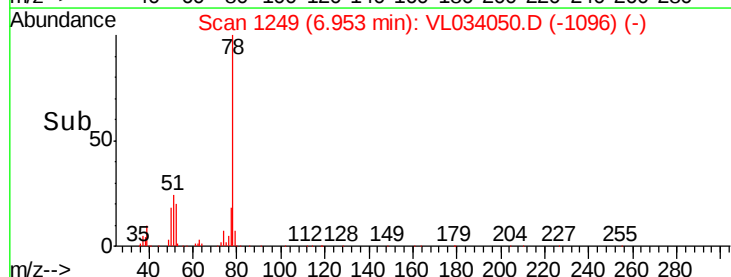
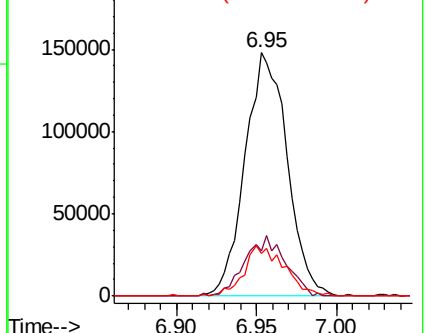
50 17.5 14.9 22.3

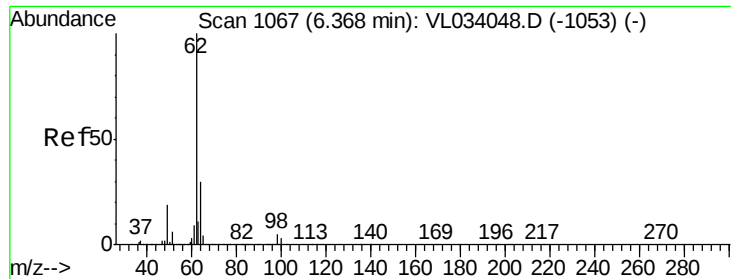


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

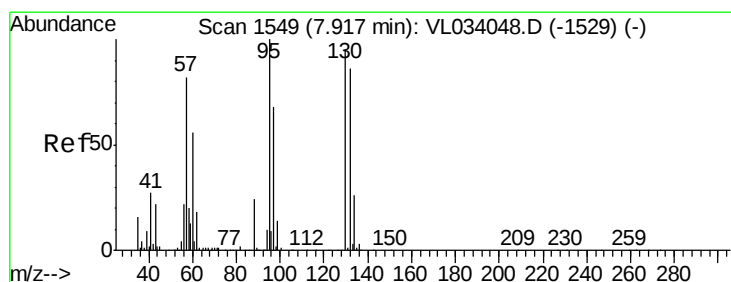
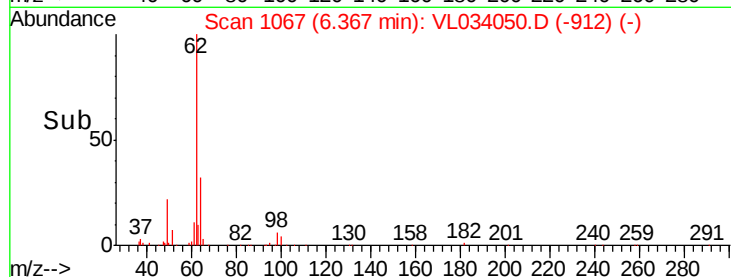
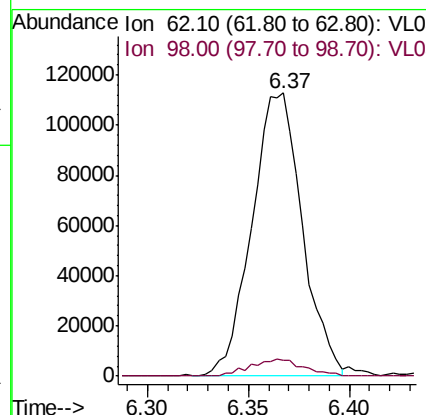
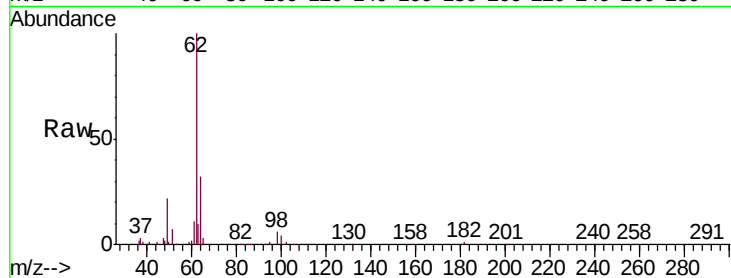




#37
 1,2-Dichloroethane
 Concen: 0.842 ppbv
 RT: 6.37 min Scan# 1067
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

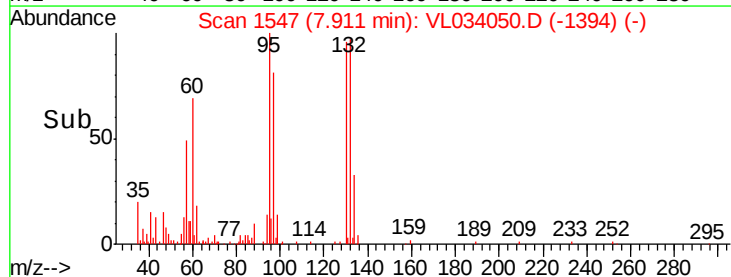
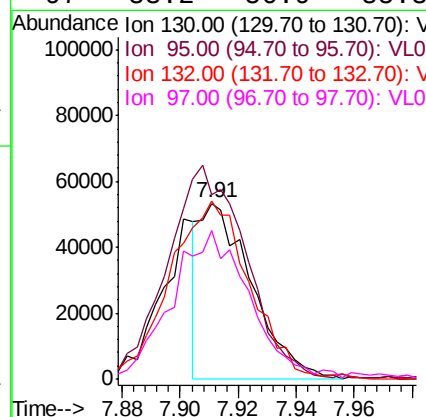
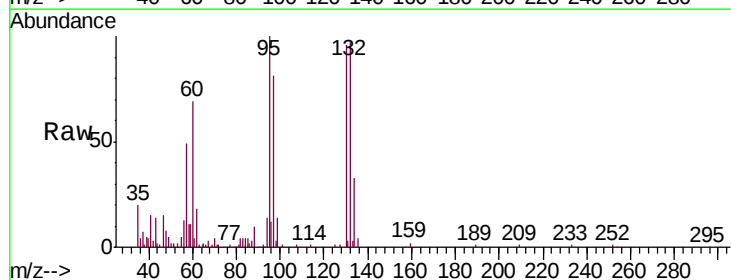
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

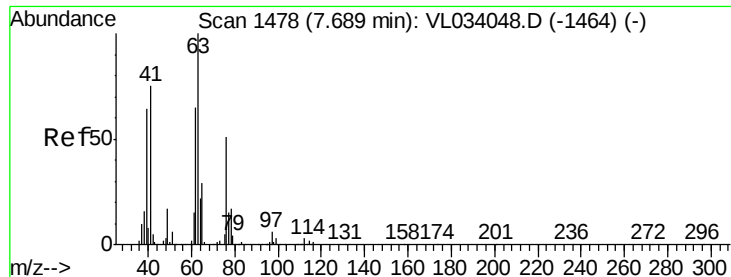
Tgt Ion: 62 Resp: 197206
 Ion Ratio Lower Upper
 62 100
 98 6.3 4.2 6.2#



#38
 Trichloroethene
 Concen: 0.462 ppbv
 RT: 7.91 min Scan# 1547
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 130 Resp: 66077
 Ion Ratio Lower Upper
 130 100
 95 101.5 84.1 126.1
 132 98.6 72.7 109.1
 97 83.2 56.9 85.3

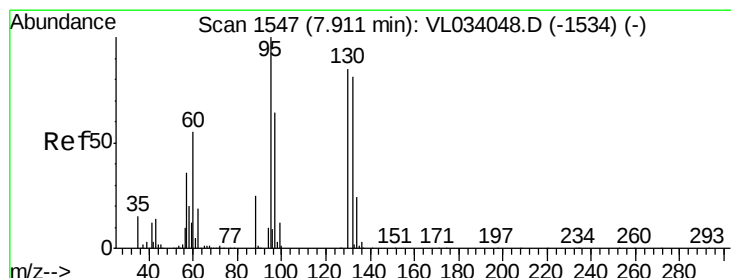
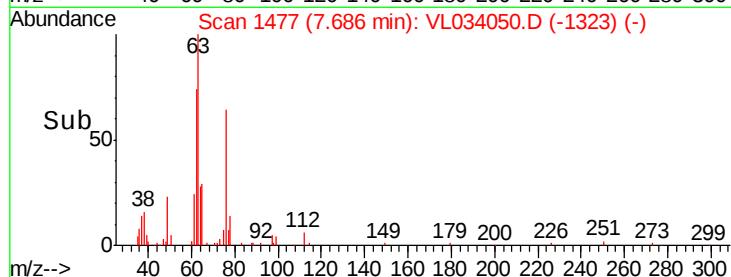
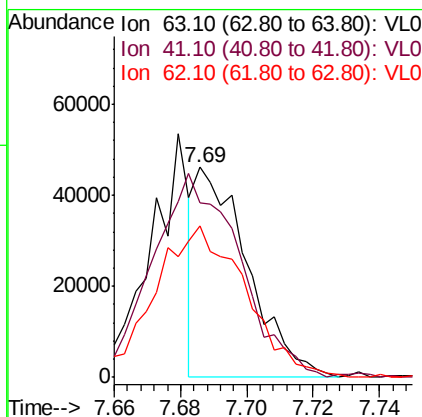
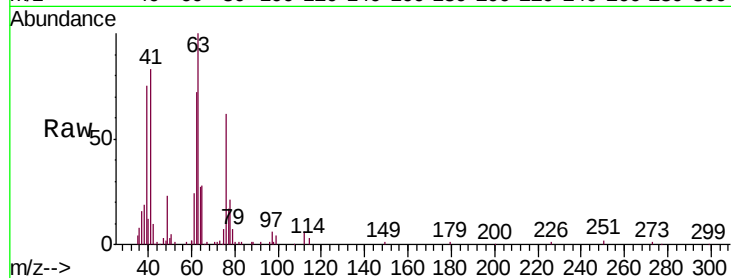




#39
 1,2-Dichloropropane
 Concen: 0.416 ppbv
 RT: 7.69 min Scan# 1477
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

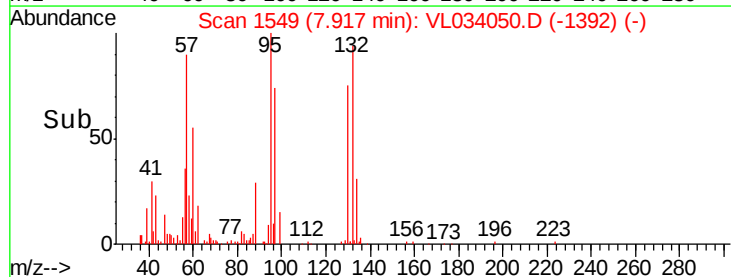
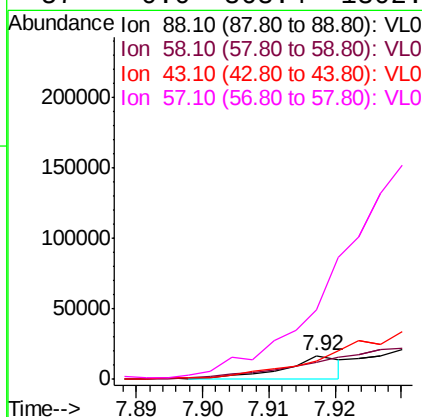
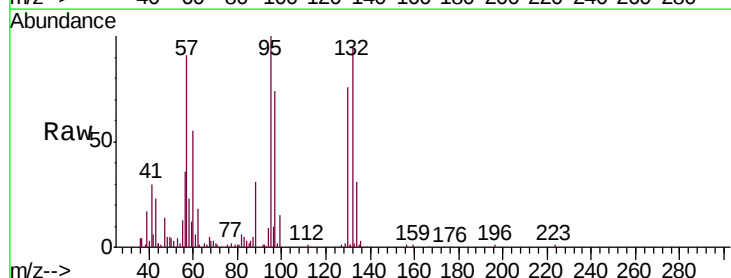
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

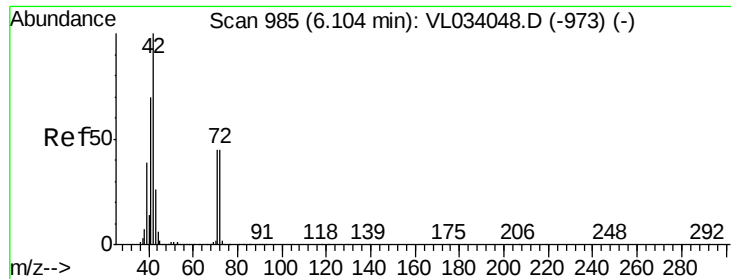
Tgt Ion: 63 Resp: 49437
 Ion Ratio Lower Upper
 63 100
 41 82.1 59.8 89.8
 62 71.1 52.2 78.2



#40
 1,4-Dioxane
 Concen: 0.180 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. 0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 88 Resp: 9750
 Ion Ratio Lower Upper
 88 100
 58 0.0 99.6 149.4#
 43 0.0 189.2 283.8#
 57 0.0 868.4 1302.6#

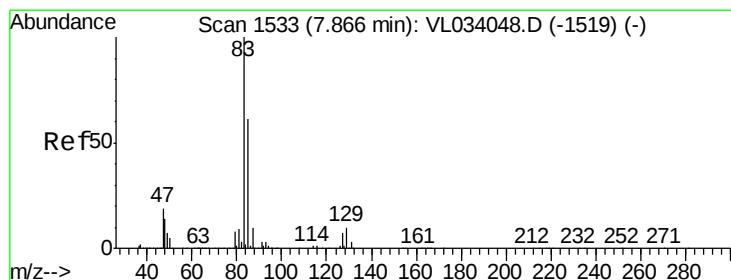
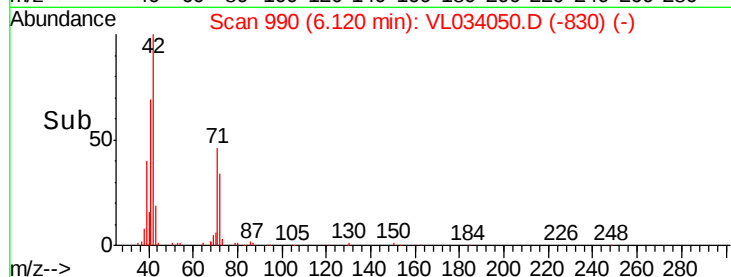
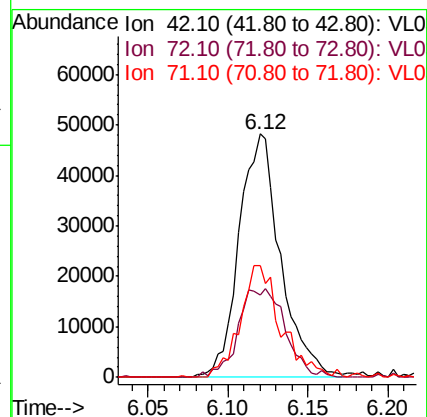
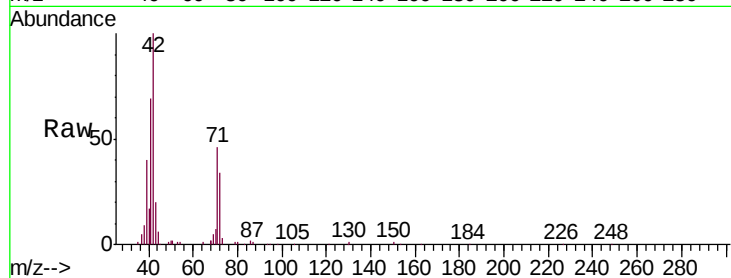




#41
Tetrahydrofuran
Concen: 0.816 ppbv
RT: 6.12 min Scan# 990
Delta R.T. 0.02 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

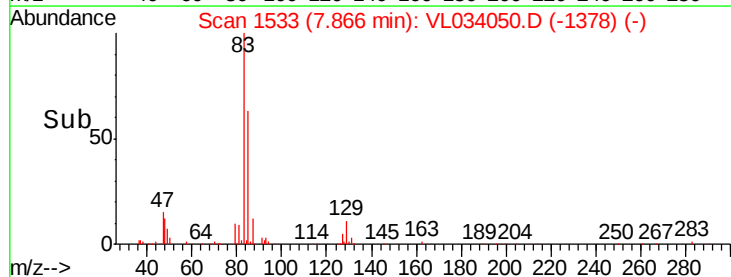
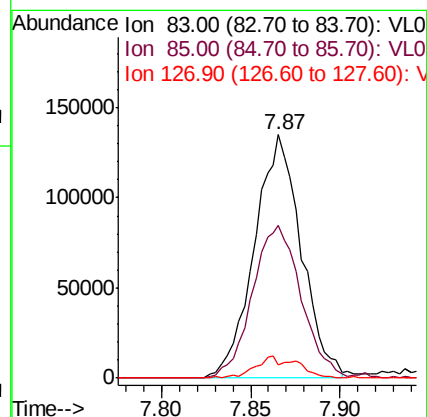
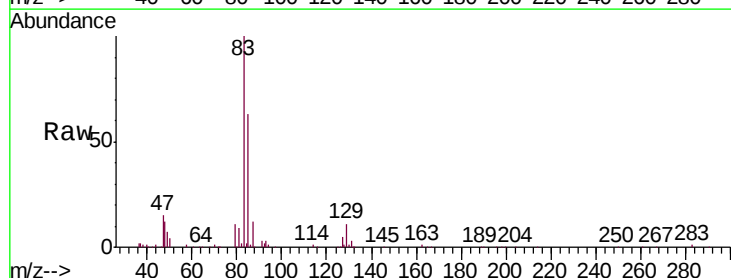
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

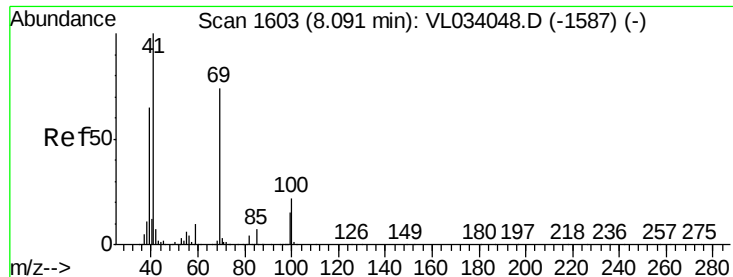
Tgt Ion	Ratio	Lower	Upper
42	100		
72	41.3	36.9	55.3
71	45.3	36.6	54.8



#42
Bromodichloromethane
Concen: 0.790 ppbv
RT: 7.87 min Scan# 1533
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.7	48.6	73.0
127	5.2	5.5	8.3#

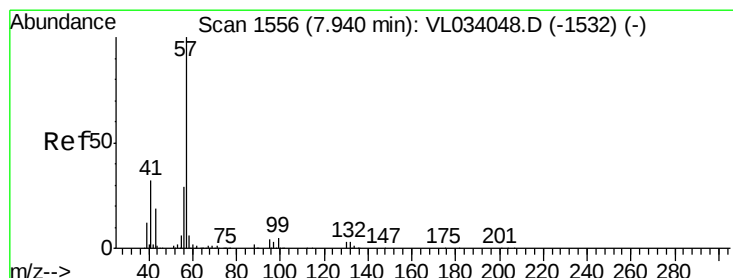
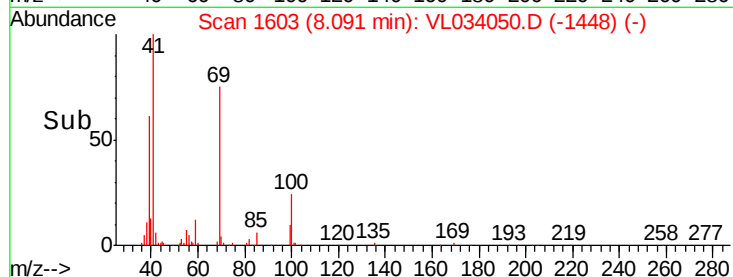
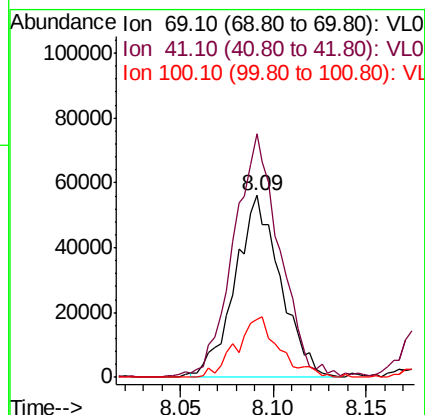
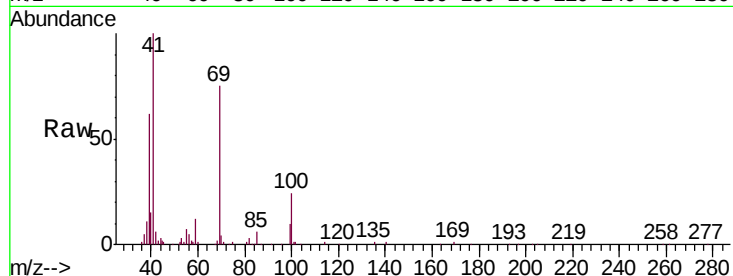




#43
Methyl Methacrylate
Concen: 0.797 ppbv
RT: 8.09 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

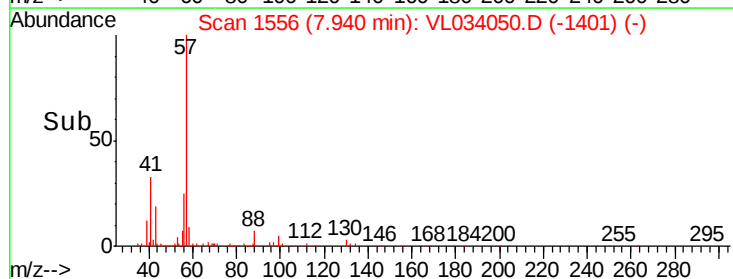
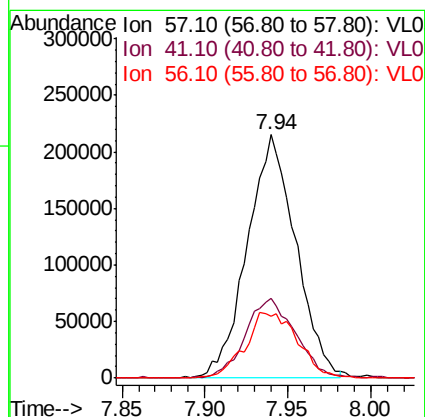
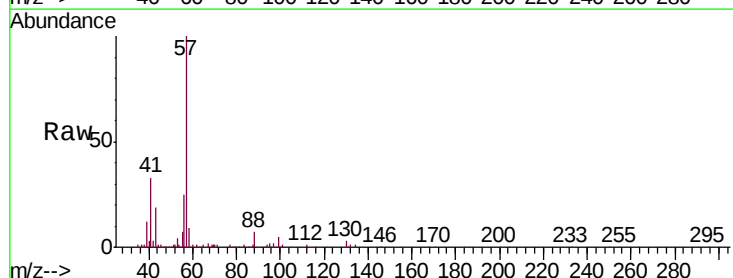
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

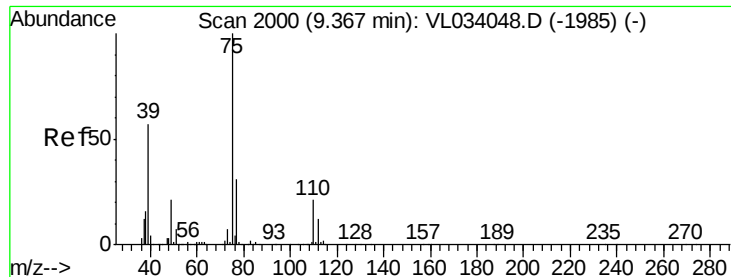
Tgt Ion: 69 Resp: 94795
Ion Ratio Lower Upper
69 100
41 138.2 112.8 169.2
100 32.1 26.1 39.1



#44
2,2,4-Trimethylpentane
Concen: 0.798 ppbv
RT: 7.94 min Scan# 1556
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion: 57 Resp: 434511
Ion Ratio Lower Upper
57 100
41 34.4 26.2 39.2
56 29.5 24.2 36.2





#45

t-1,3-Dichloropropene

Concen: 0.747 ppbv

RT: 9.36 min Scan# 1999

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

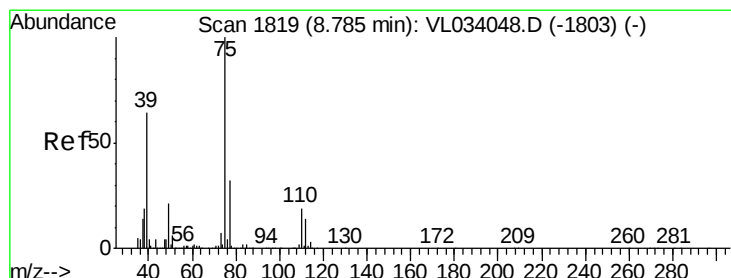
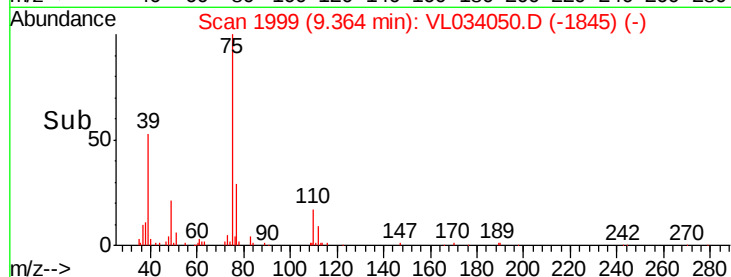
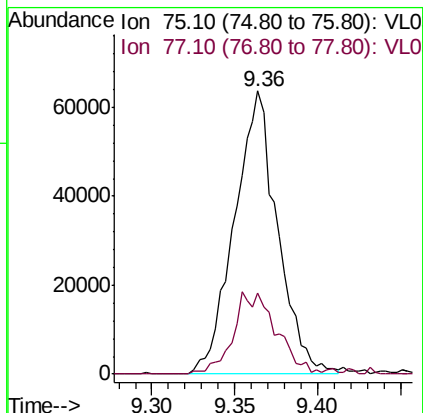
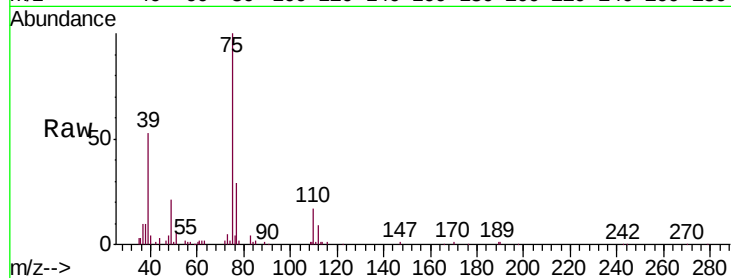
VSTDIC001

Tgt Ion: 75 Resp: 114966

Ion Ratio Lower Upper

75 100

77 30.6 24.6 37.0



#46

cis-1,3-Dichloropropene

Concen: 0.707 ppbv

RT: 8.79 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

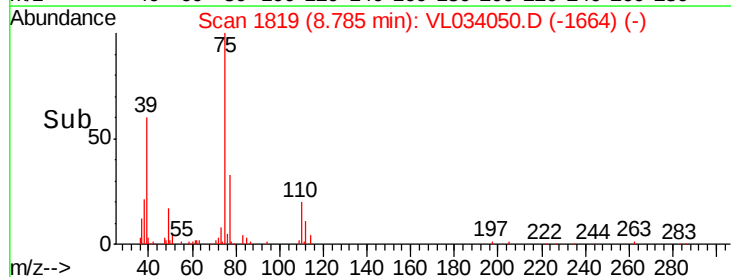
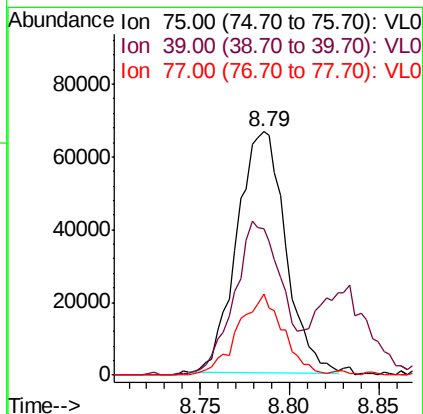
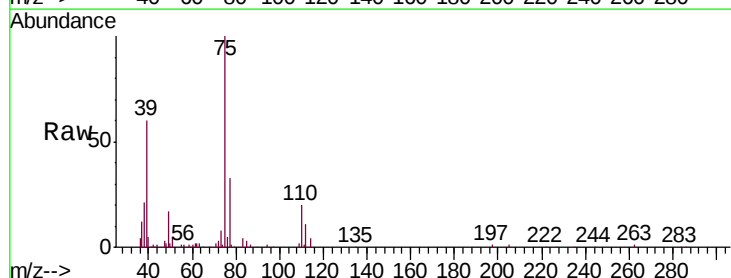
Tgt Ion: 75 Resp: 126921

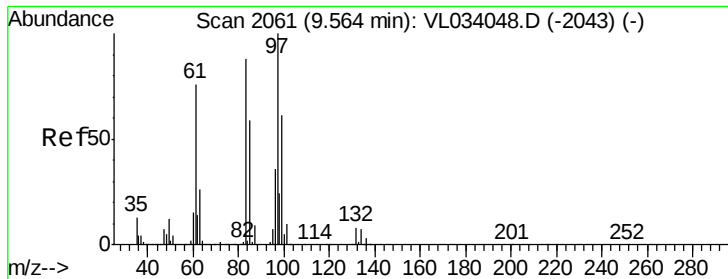
Ion Ratio Lower Upper

75 100

39 59.9 51.4 77.2

77 33.7 25.8 38.6

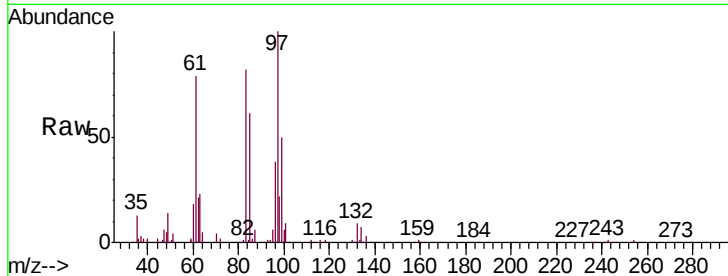




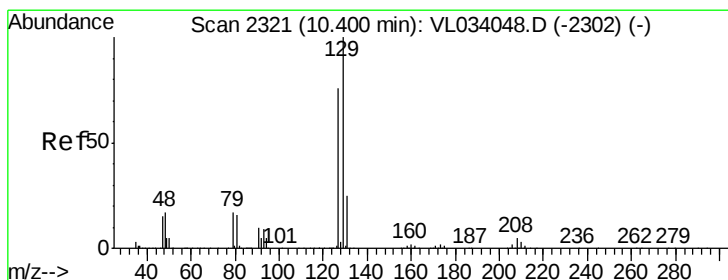
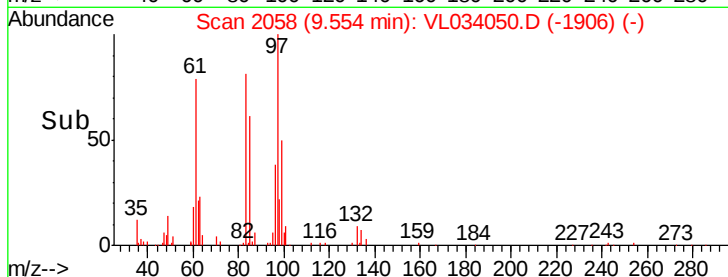
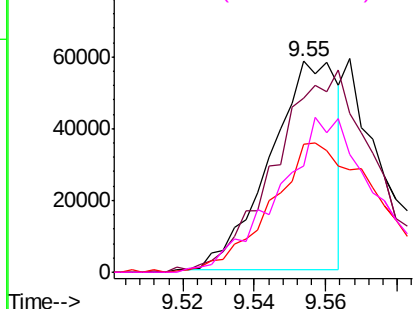
#47
 1,1,2-Trichloroethane
 Concen: 0.516 ppbv
 RT: 9.55 min Scan# 2058
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion:	97	Resp:	76301
Ion	Ratio	Lower	Upper
97	100		
83	82.8	70.6	106.0
85	60.5	47.3	70.9
99	49.2	48.6	72.8

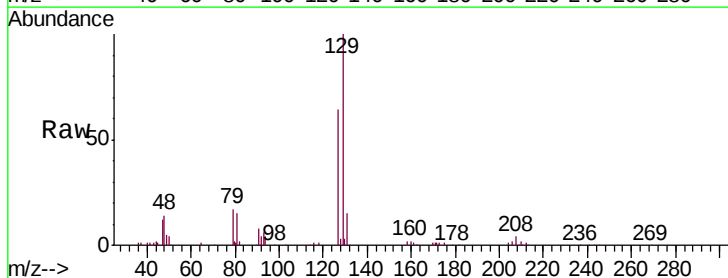


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

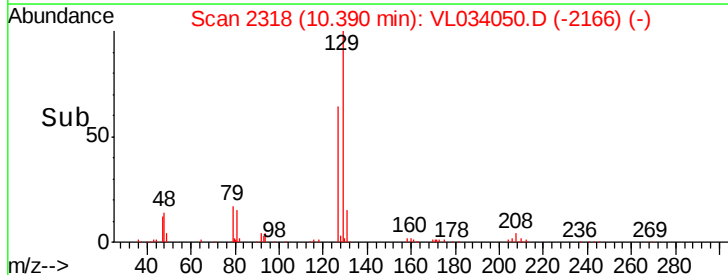
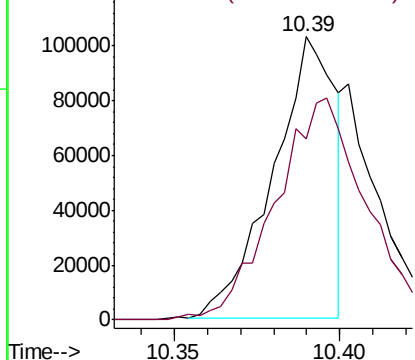


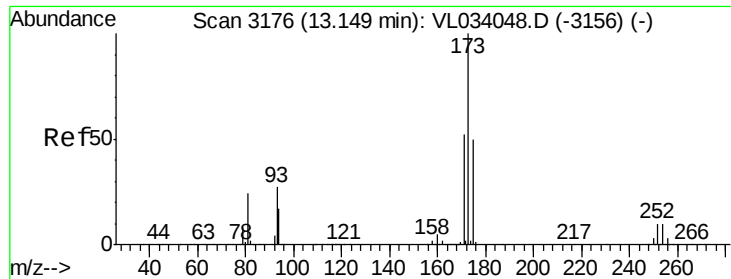
#48
 Dibromochloromethane
 Concen: 0.451 ppbv
 RT: 10.39 min Scan# 2318
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion:	129	Resp:	134169
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.6	115.8#



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.769 ppbv

RT: 13.14 min Scan# 3173

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

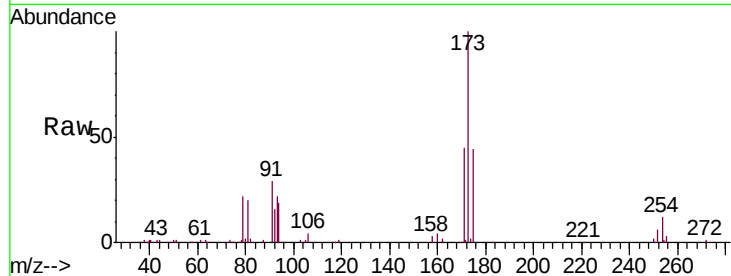
Tgt Ion:173 Resp: 185516

Ion Ratio Lower Upper

173 100

175 53.9 39.4 59.0

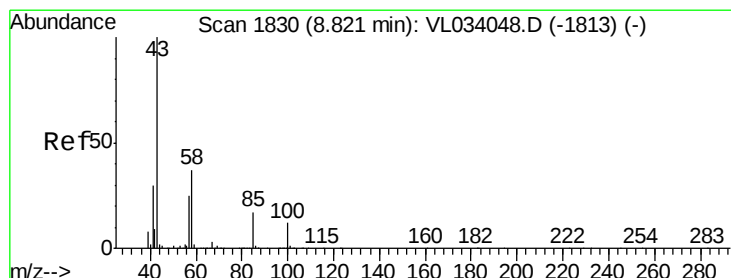
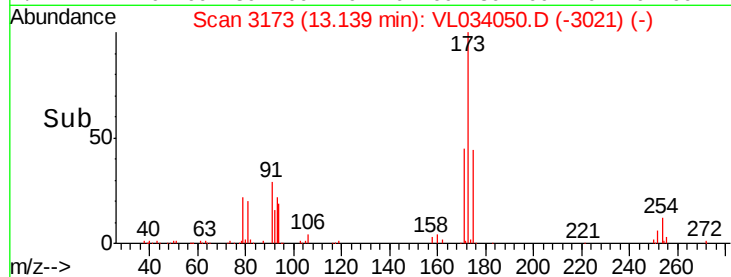
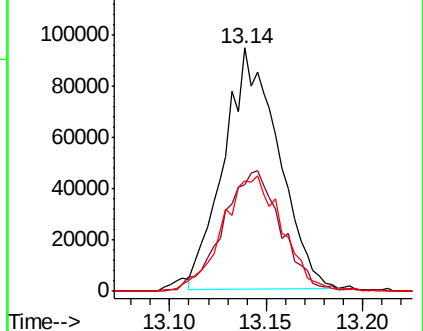
171 52.5 41.9 62.9



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.419 ppbv

RT: 8.83 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VL034050.D

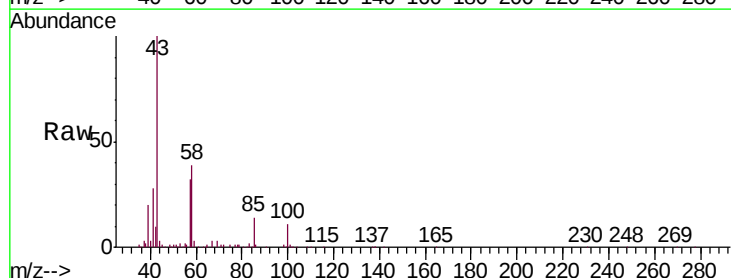
Acq: 30 Jul 2019 3:26

Tgt Ion: 43 Resp: 132531

Ion Ratio Lower Upper

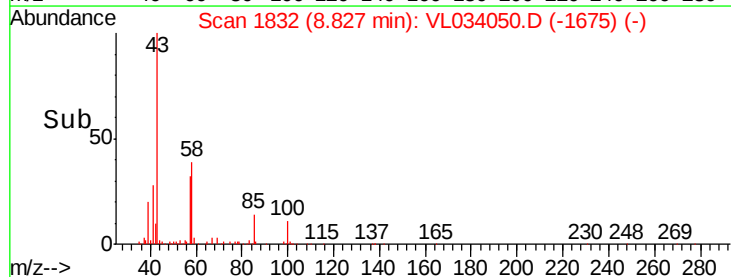
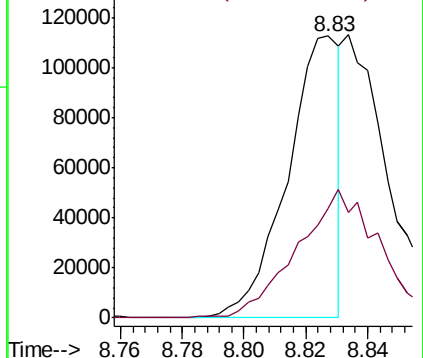
43 100

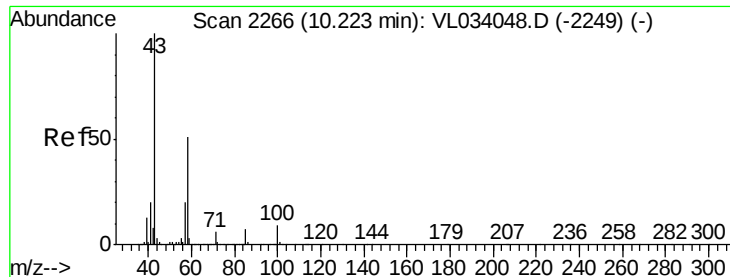
58 0.0 30.7 46.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

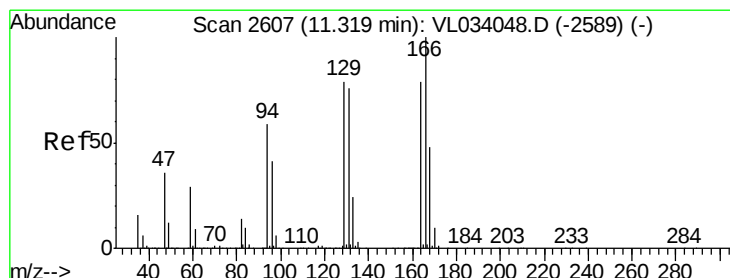
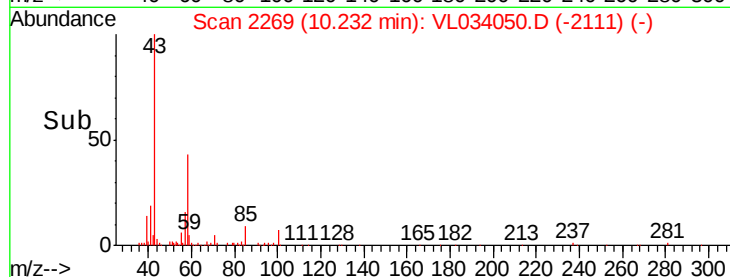
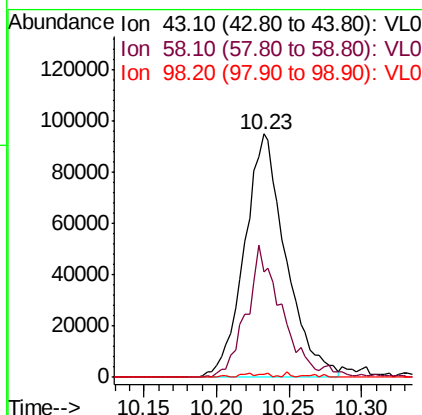
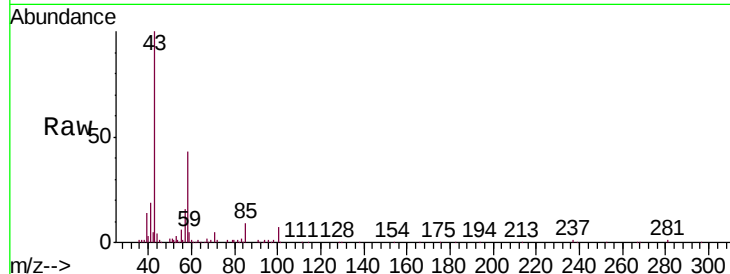




#51
2-Hexanone
Concen: 0.698 ppbv
RT: 10.23 min Scan# 2269
Delta R.T. 0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

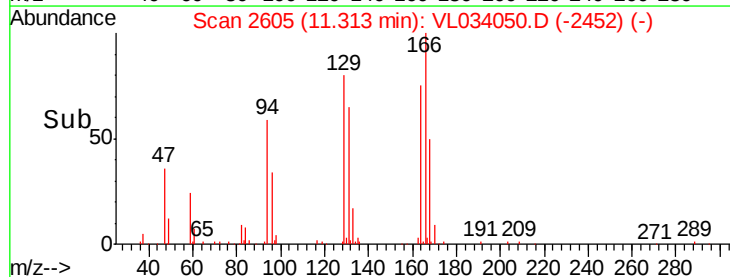
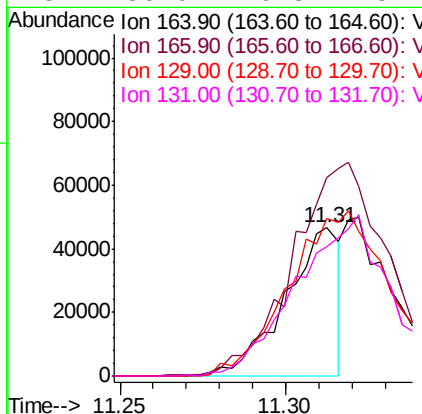
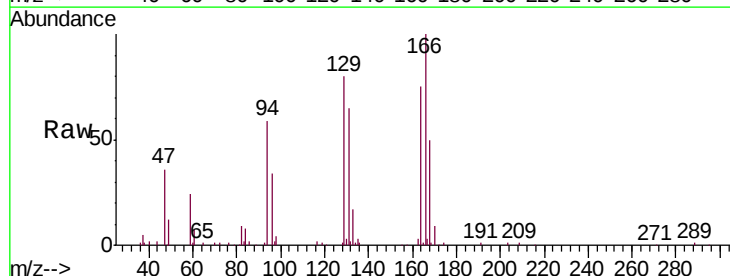
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

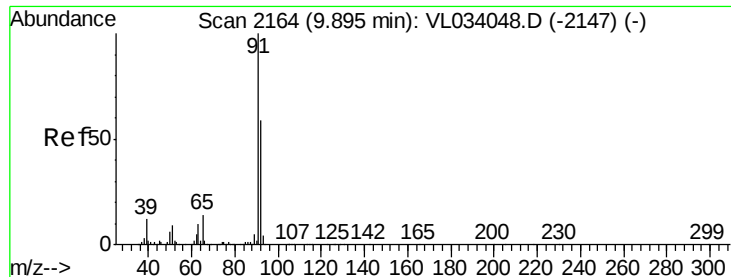
Tgt Ion: 43 Resp: 188643
Ion Ratio Lower Upper
43 100
58 47.8 40.2 60.2
98 1.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.381 ppbv
RT: 11.31 min Scan# 2605
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion: 164 Resp: 52685
Ion Ratio Lower Upper
164 100
166 133.2 101.6 152.4
129 106.7 80.7 121.1
131 86.0 76.8 115.2





#53

Toluene

Concen: 0.361 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

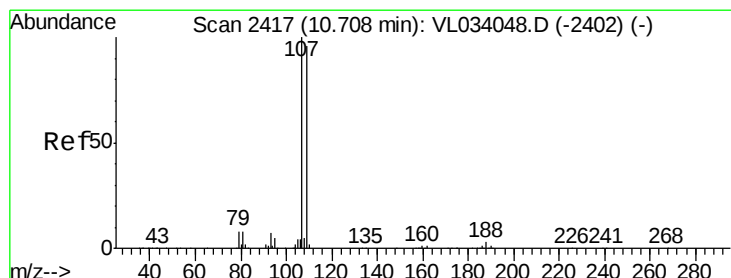
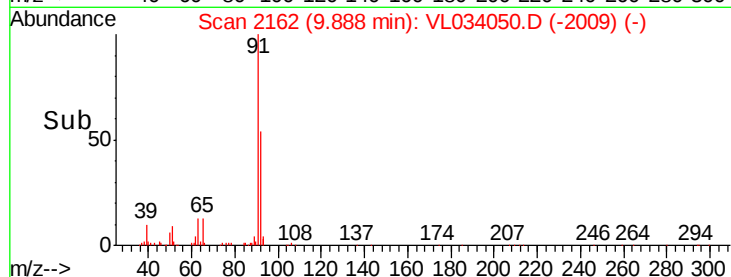
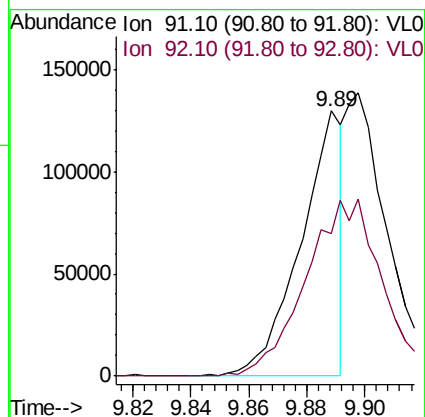
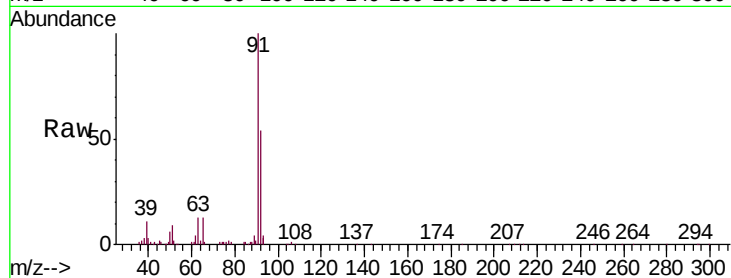
VSTDIC001

Tgt Ion: 91 Resp: 129089

Ion Ratio Lower Upper

91 100

92 0.0 47.4 71.2#



#54

1,2-Dibromoethane

Concen: 0.394 ppbv

RT: 10.70 min Scan# 2414

Delta R.T. -0.01 min

Lab File: VL034050.D

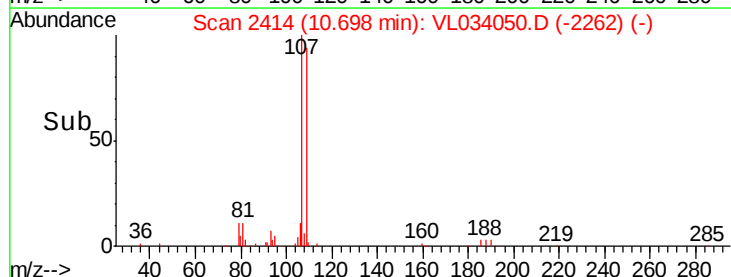
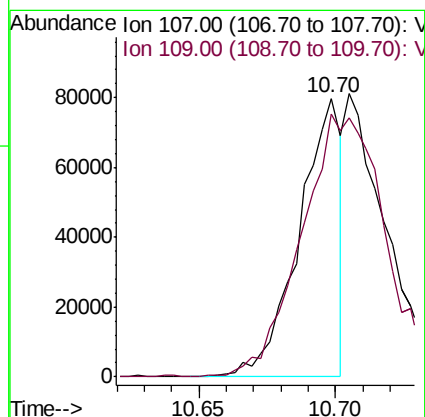
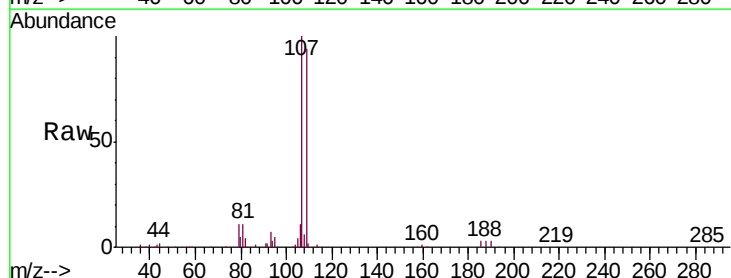
Acq: 30 Jul 2019 3:26

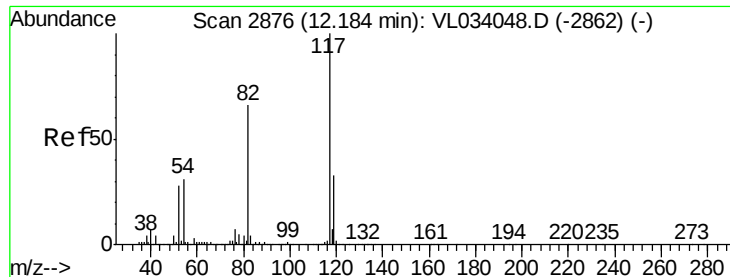
Tgt Ion: 107 Resp: 85394

Ion Ratio Lower Upper

107 100

109 94.3 76.6 115.0

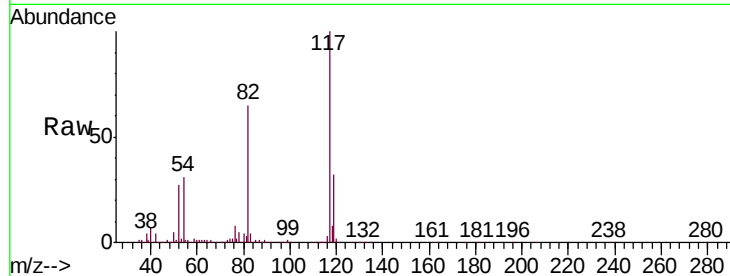




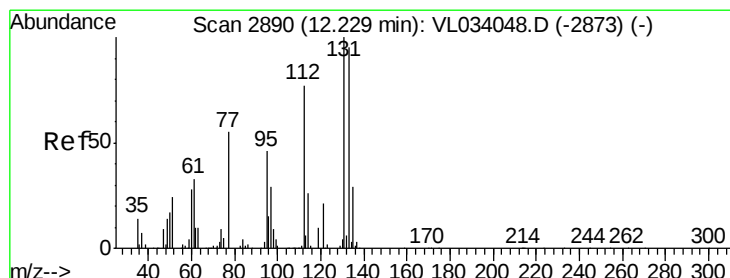
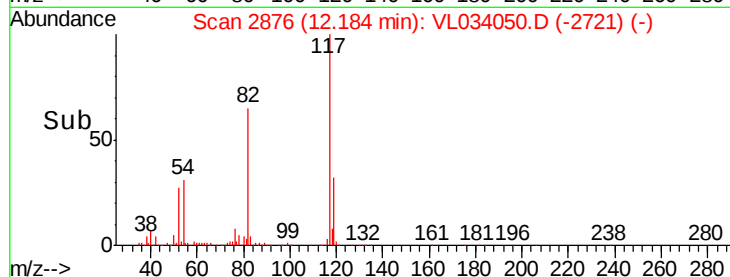
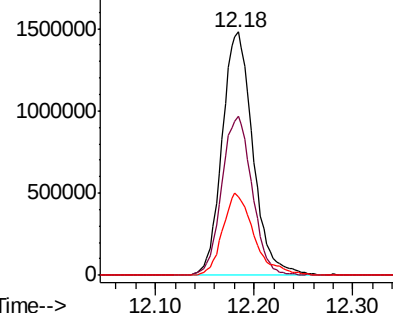
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2876
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:117 Resp: 3211609
Ion Ratio Lower Upper
117 100
82 64.4 49.8 74.8
119 34.7 43.0 64.6#

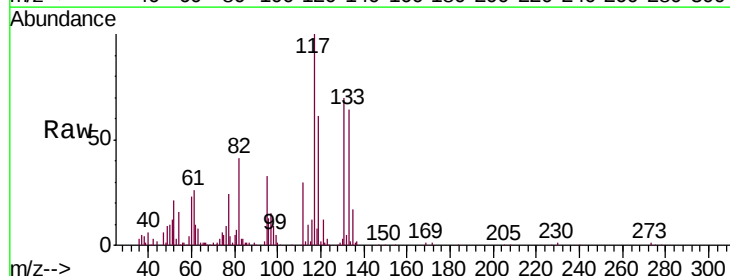


Abundance Ion 117.10 (116.80 to 117.80): V
2000000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

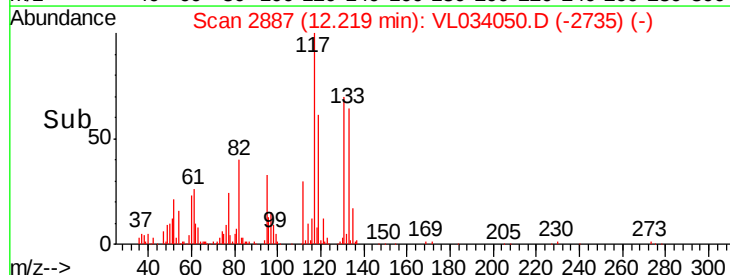
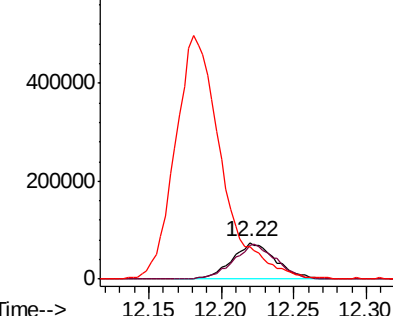


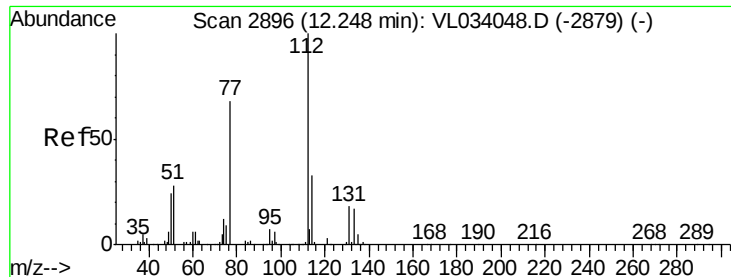
#56
1,1,1,2-Tetrachloroethane
Concen: 1.099 ppbv
RT: 12.22 min Scan# 2887
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion:131 Resp: 155216
Ion Ratio Lower Upper
131 100
133 94.3 76.6 114.8
119 717.0 46.6 69.8#



Abundance Ion 131.00 (130.70 to 131.70): V
600000
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.605 ppbv

RT: 12.24 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

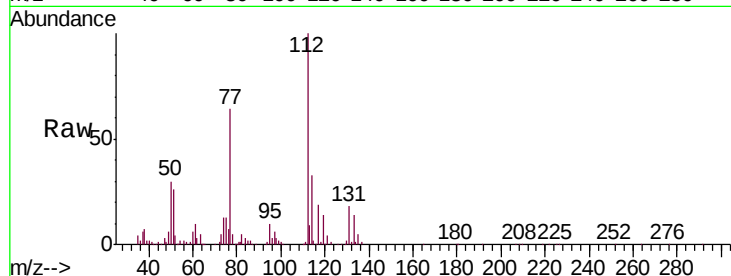
Tgt Ion: 112 Resp: 152217

Ion Ratio Lower Upper

112 100

77 62.7 55.1 82.7

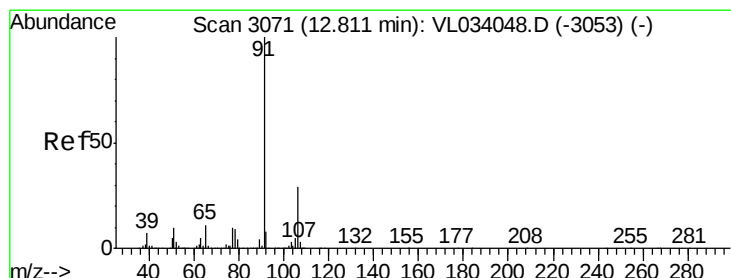
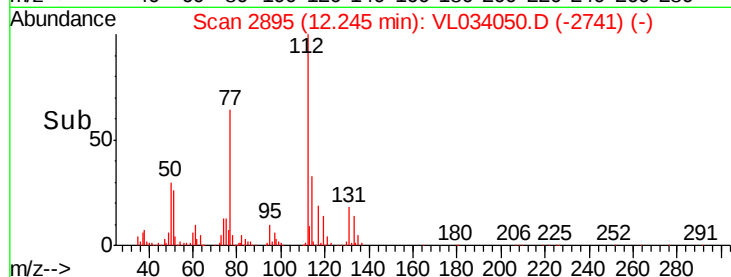
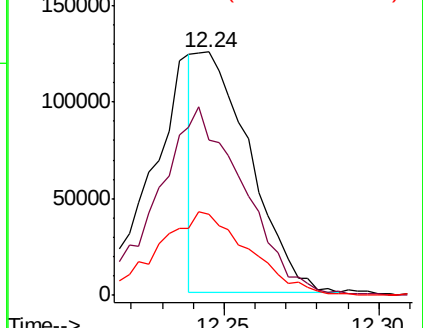
114 33.0 29.5 36.1



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.973 ppbv

RT: 12.81 min Scan# 3070

Delta R.T. -0.00 min

Lab File: VL034050.D

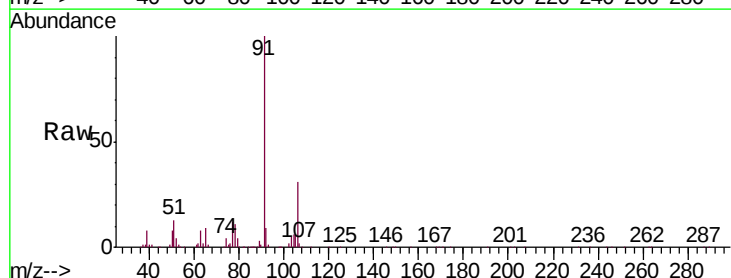
Acq: 30 Jul 2019 3:26

Tgt Ion: 91 Resp: 369825

Ion Ratio Lower Upper

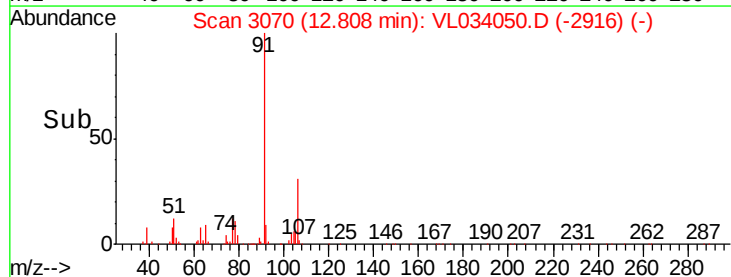
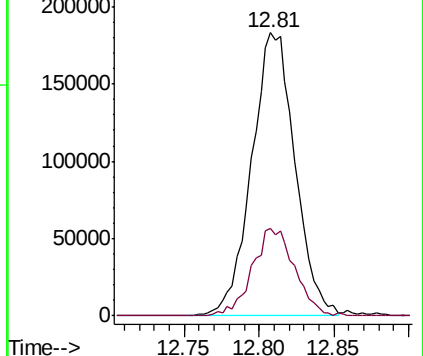
91 100

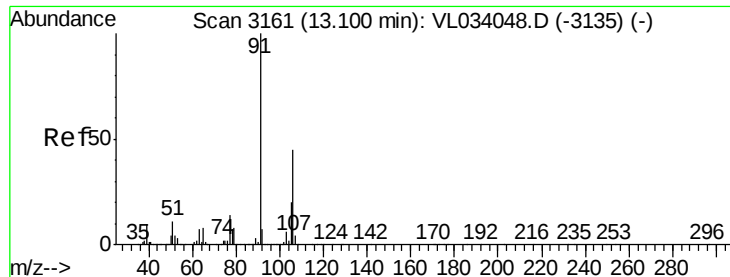
106 30.9 23.5 35.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

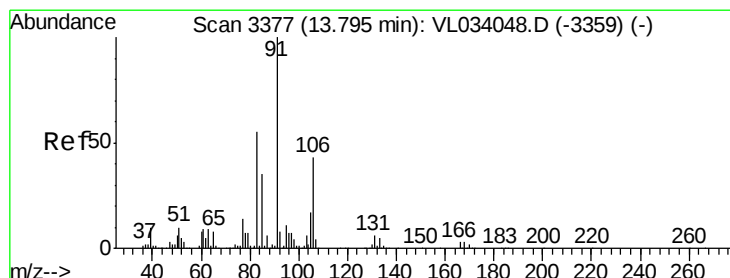
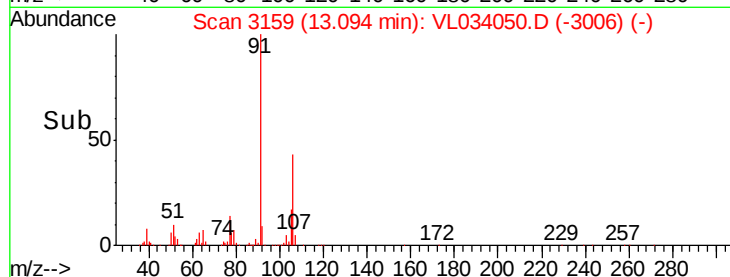
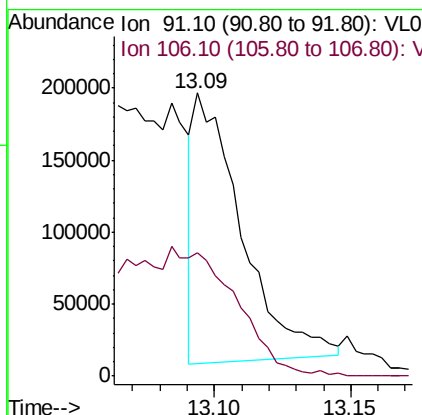
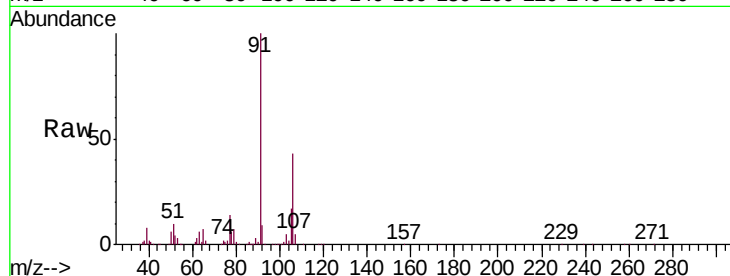




#59
m/p-Xylene
Concen: 0.652 ppbv
RT: 13.09 min Scan# 3159
Delta R.T. -0.01 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

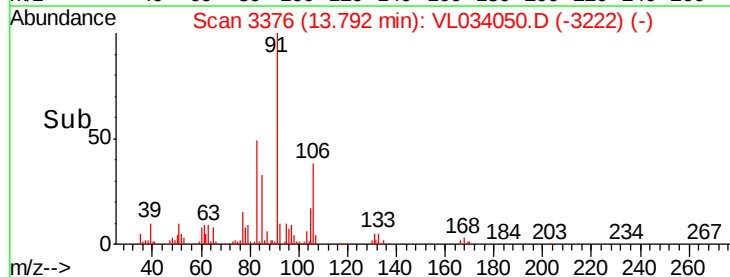
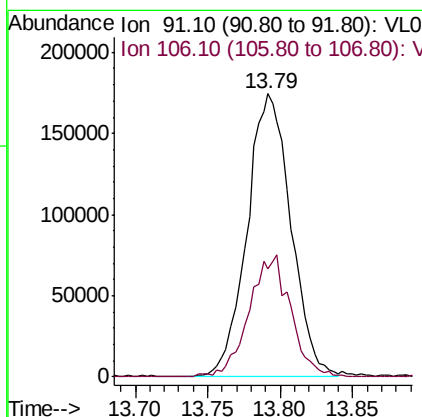
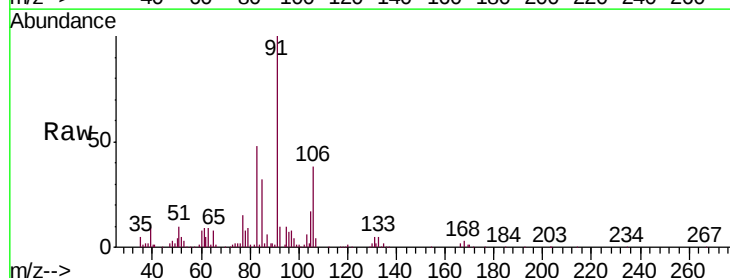
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

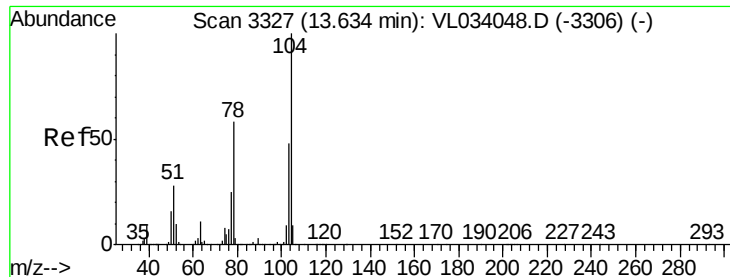
Tgt Ion: 91 Resp: 224404
Ion Ratio Lower Upper
91 100
106 0.0 35.1 52.7#



#60
o-Xylene
Concen: 1.060 ppbv
RT: 13.79 min Scan# 3376
Delta R.T. -0.00 min
Lab File: VL034050.D
Acq: 30 Jul 2019 3:26

Tgt Ion: 91 Resp: 366253
Ion Ratio Lower Upper
91 100
106 40.9 21.2 63.6





#61

Styrene

Concen: 0.963 ppbv

RT: 13.63 min Scan# 3326

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

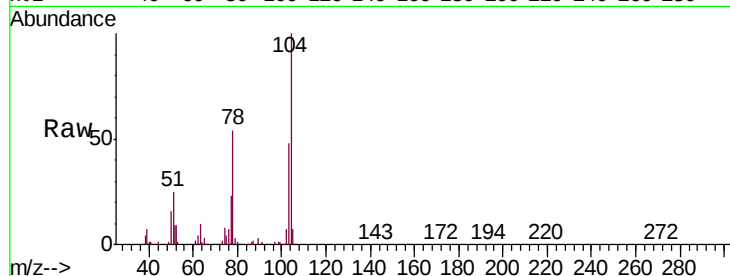
Tgt Ion:104 Resp: 218785

Ion Ratio Lower Upper

104 100

78 54.8 44.3 66.5

103 49.1 38.8 58.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

150000

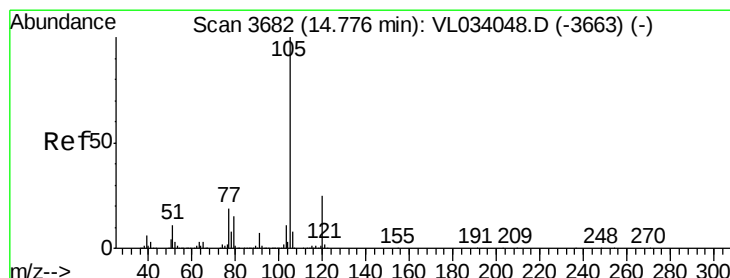
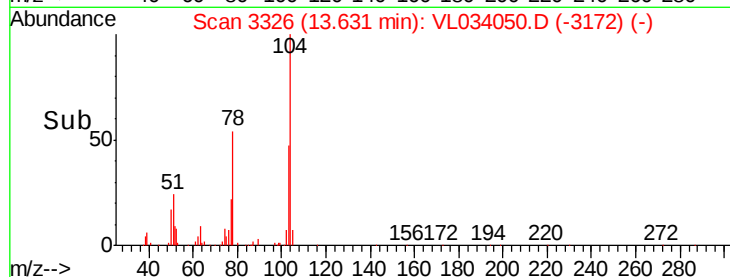
100000

50000

0

13.55 13.60 13.65

Time-->



#62

Isopropylbenzene

Concen: 0.945 ppbv

RT: 14.77 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VL034050.D

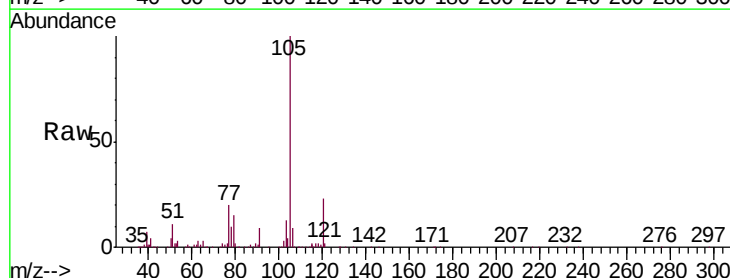
Acq: 30 Jul 2019 3:26

Tgt Ion:105 Resp: 471837

Ion Ratio Lower Upper

105 100

120 24.1 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

250000

200000

150000

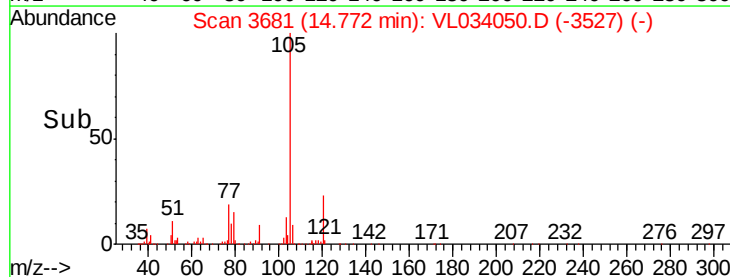
100000

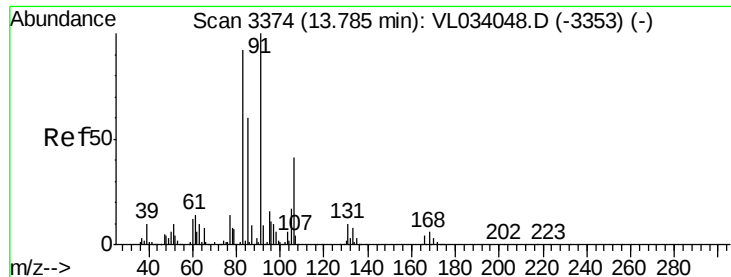
50000

0

14.70 14.75 14.80 14.85

Time-->





#63

1,1,2,2-Tetrachloroethane

Concen: 1.023 ppbv

RT: 13.78 min Scan# 3372

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

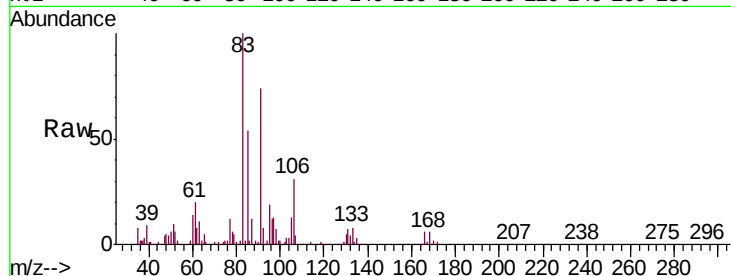
Tgt Ion: 83 Resp: 274422

Ion Ratio Lower Upper

83 100

131 10.2 4.8 14.4

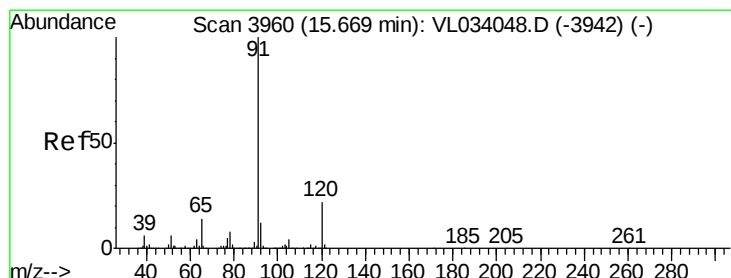
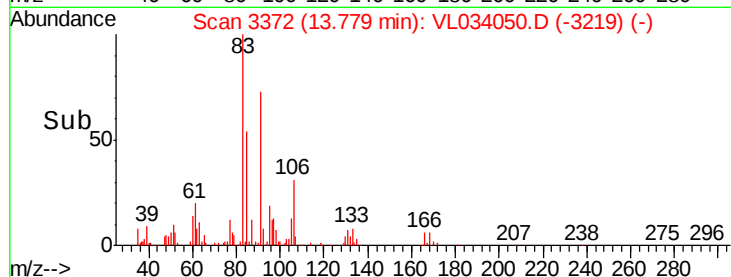
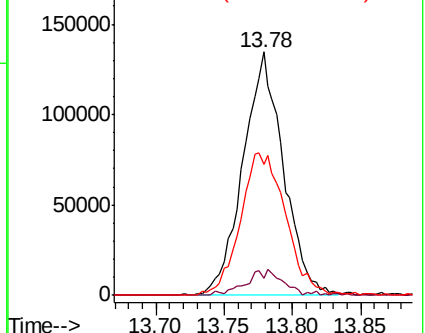
85 66.8 32.4 97.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.462 ppbv

RT: 15.67 min Scan# 3960

Delta R.T. -0.00 min

Lab File: VL034050.D

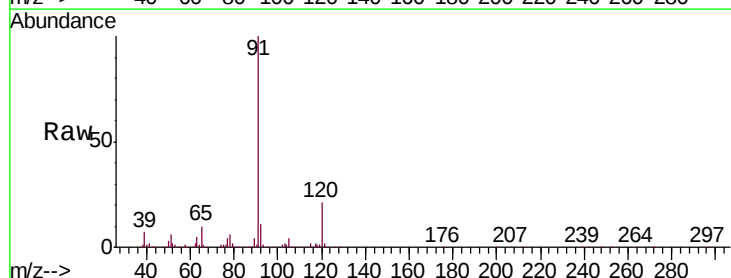
Acq: 30 Jul 2019 3:26

Tgt Ion: 120 Resp: 59679

Ion Ratio Lower Upper

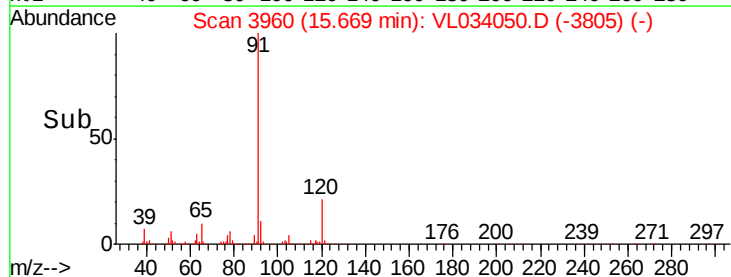
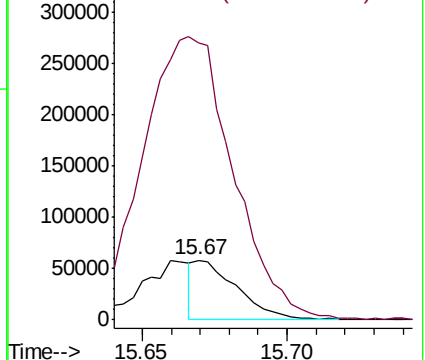
120 100

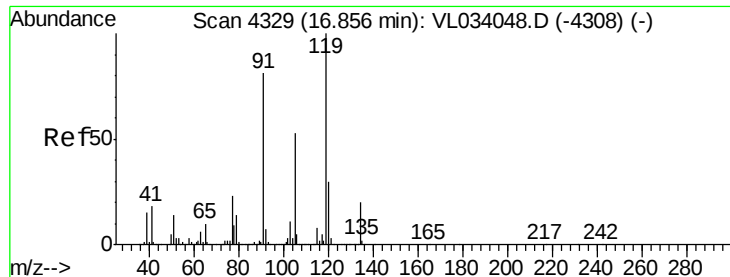
91 1026.9 386.2 579.2#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

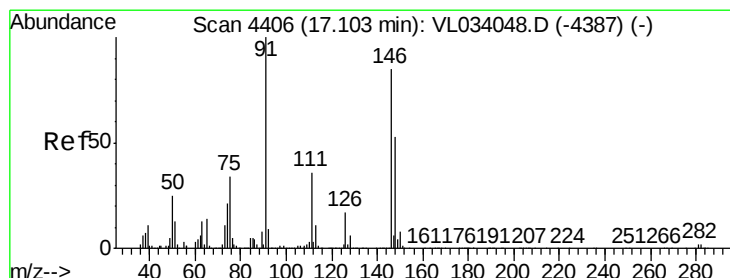
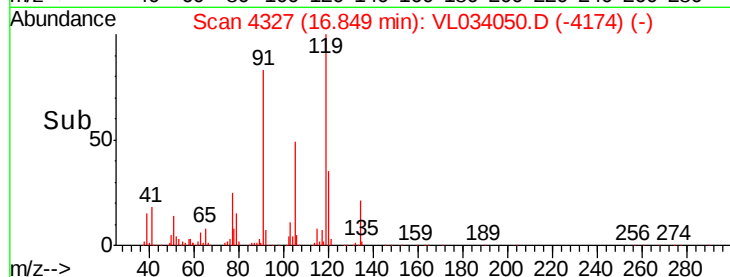
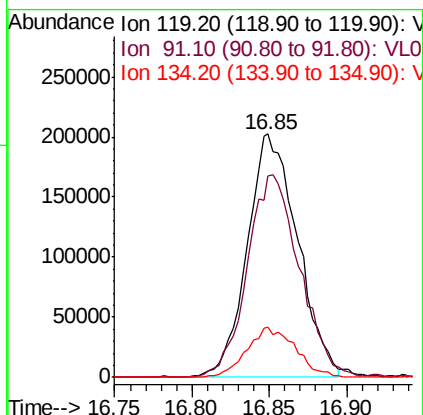
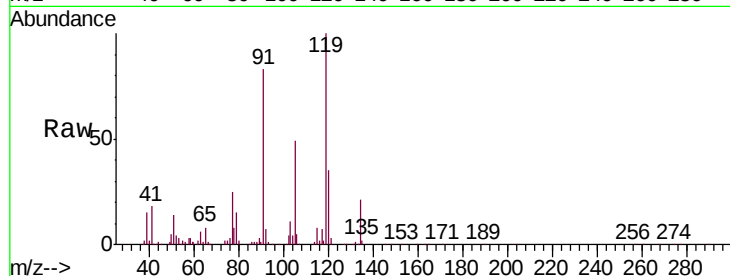




#65
 tert-Butylbenzene
 Concen: 1.084 ppbv
 RT: 16.85 min Scan# 4327
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

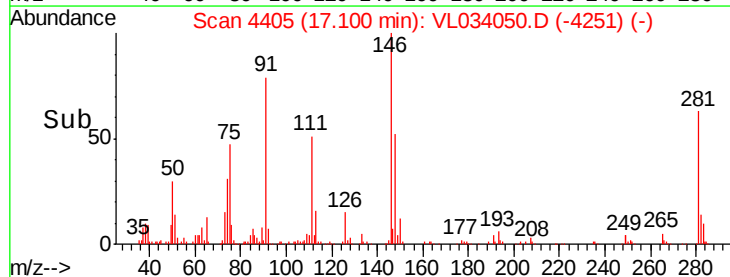
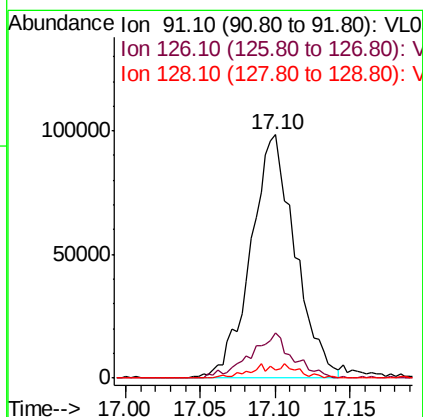
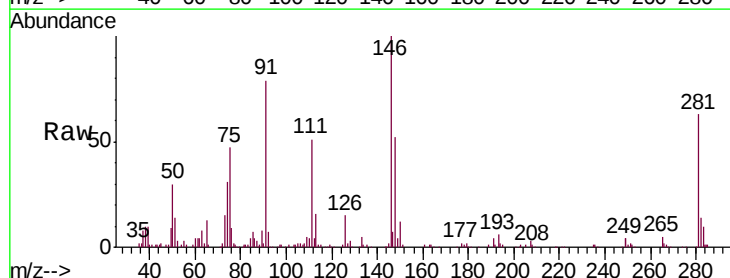
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

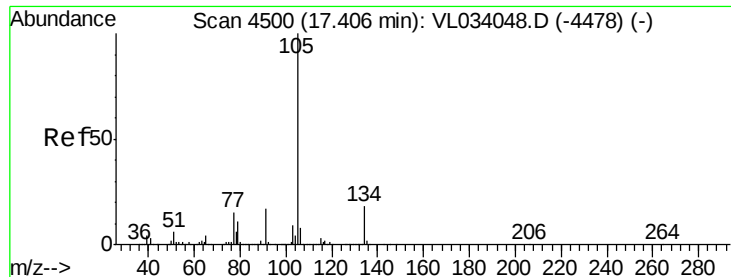
Tgt Ion: 119 Resp: 456210
 Ion Ratio Lower Upper
 119 100
 91 87.7 66.9 100.3
 134 20.1 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.953 ppbv
 RT: 17.10 min Scan# 4405
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 91 Resp: 202867
 Ion Ratio Lower Upper
 91 100
 126 17.8 13.5 20.3
 128 5.7 4.5 6.7

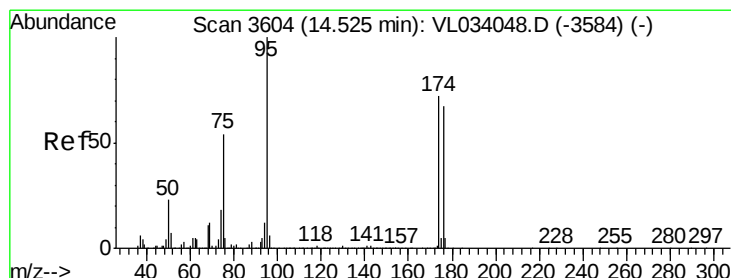
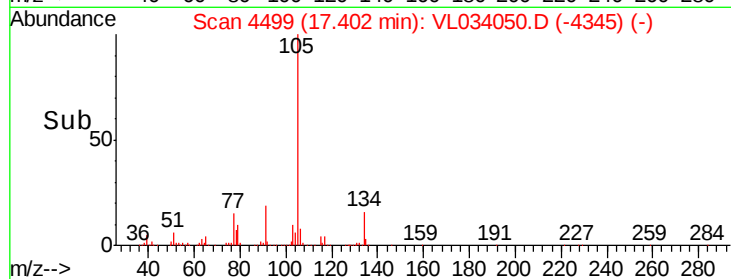
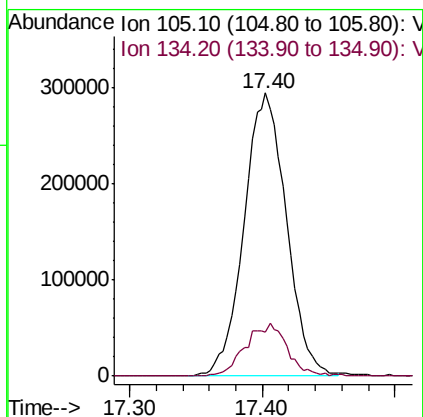
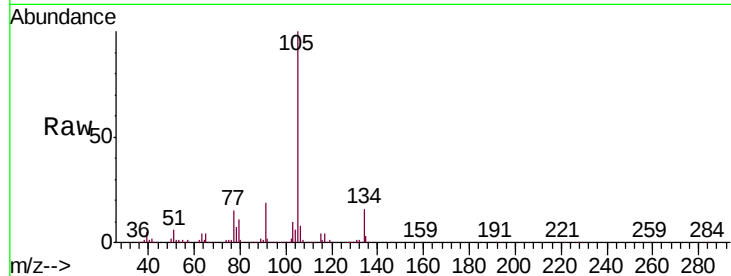




#67
 sec-Butylbenzene
 Concen: 1.102 ppbv
 RT: 17.40 min Scan# 4499
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

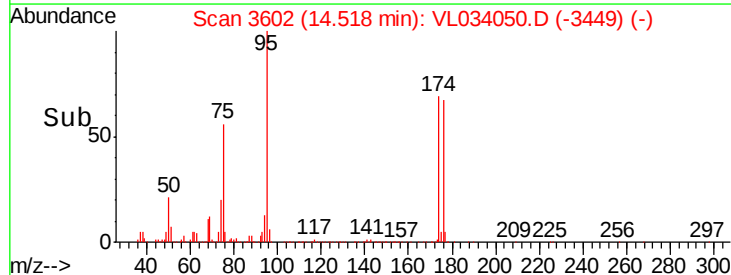
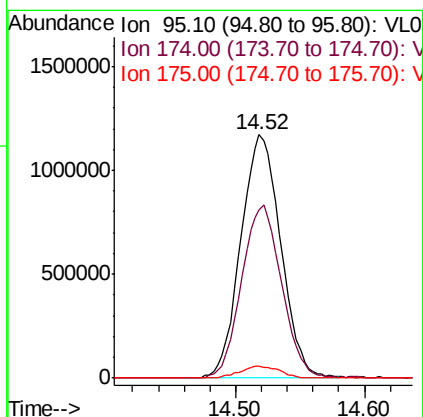
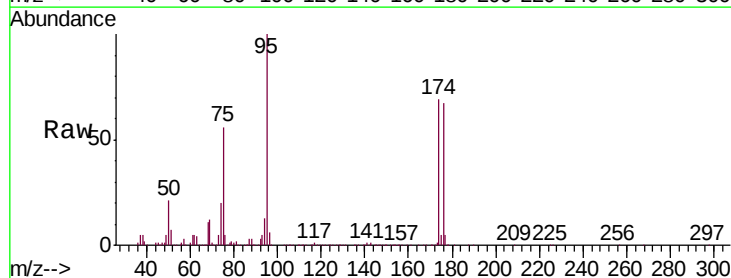
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

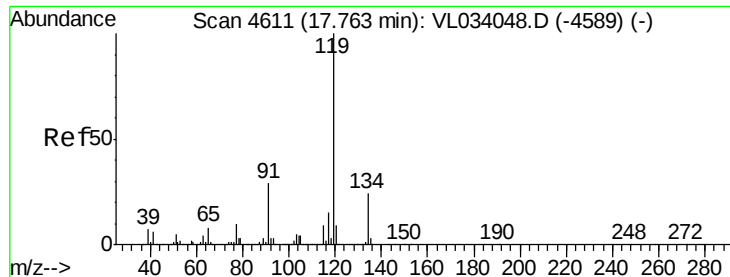
Tgt Ion: 105 Resp: 654623
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.3 21.5



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.568 ppbv
 RT: 14.52 min Scan# 3602
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 95 Resp: 2521751
 Ion Ratio Lower Upper
 95 100
 174 71.8 57.6 86.4
 175 5.1 4.1 6.1

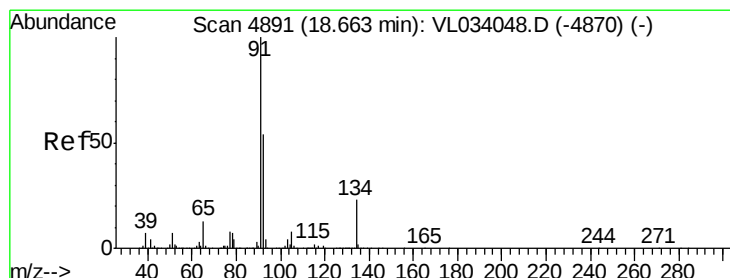
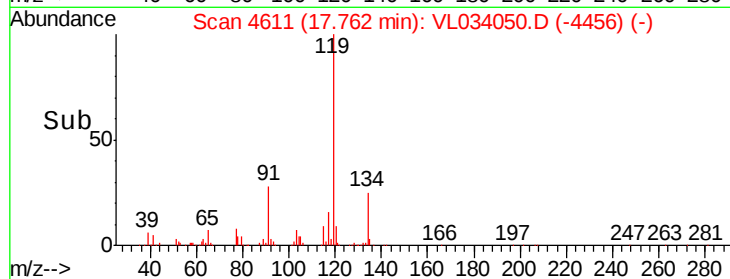
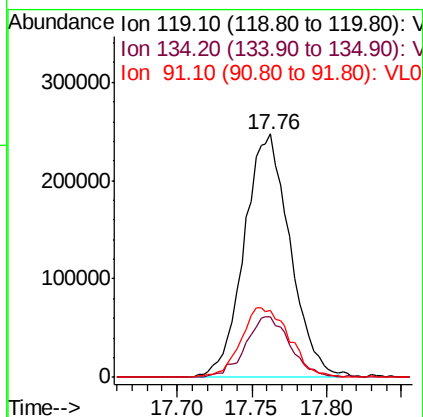
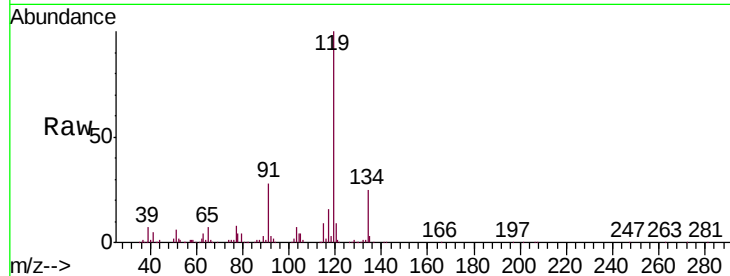




#69
 p-Isopropyltoluene
 Concen: 1.076 ppbv
 RT: 17.76 min Scan# 4611
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

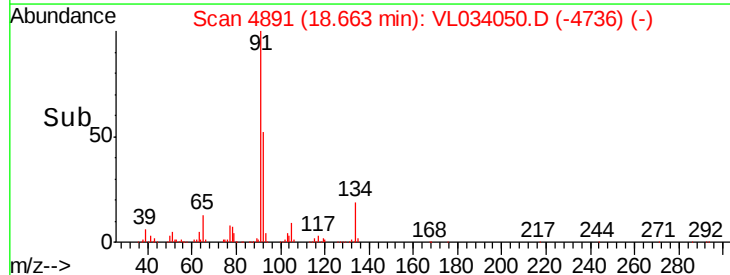
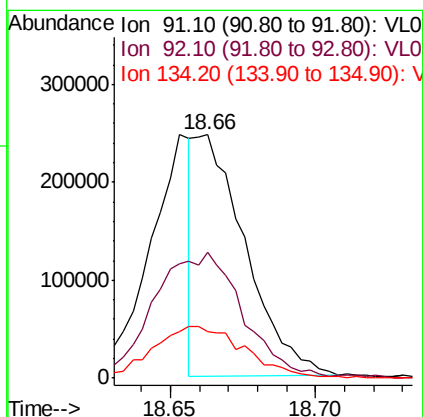
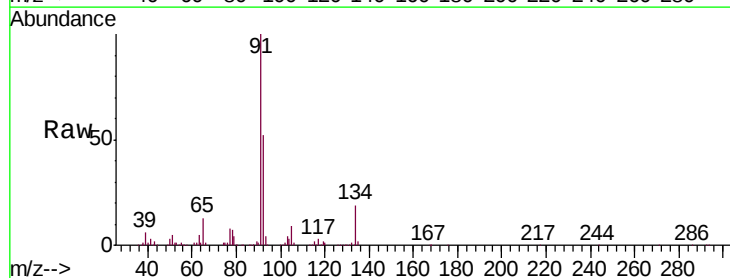
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

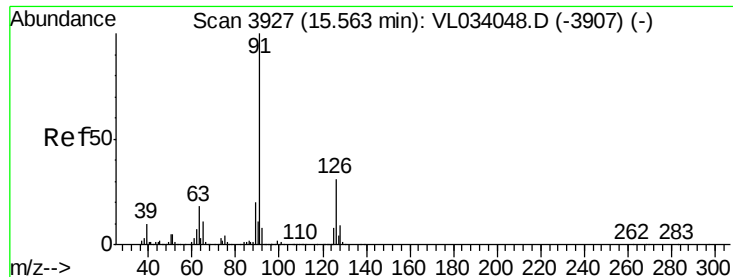
Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.1	30.1
91	31.0	23.6	35.4



#70
 n-Butylbenzene
 Concen: 0.578 ppbv
 RT: 18.66 min Scan# 4891
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	94.3	42.6	64.0#
134	40.0	17.7	26.5#

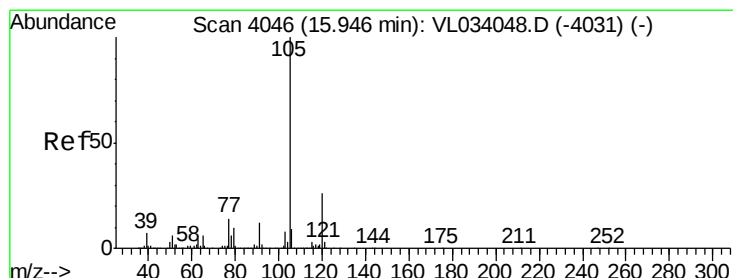
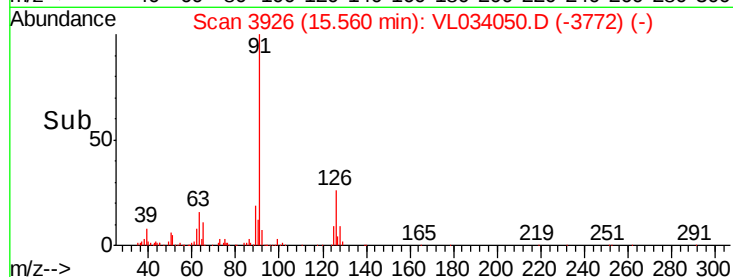
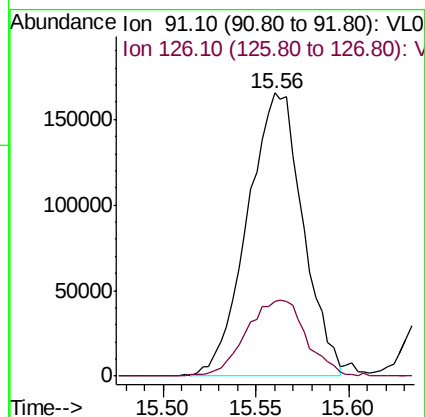
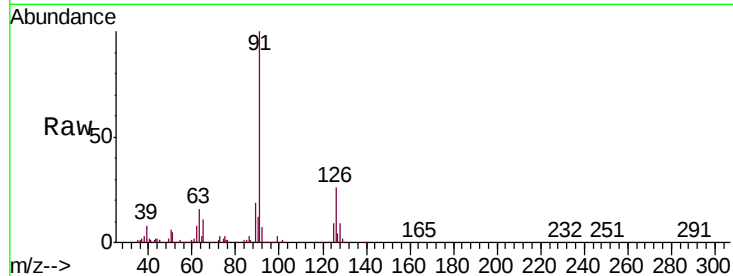




#71
 2-Chlorotoluene
 Concen: 0.942 ppbv
 RT: 15.56 min Scan# 3926
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

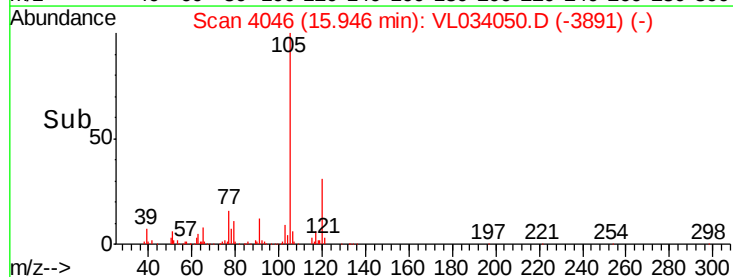
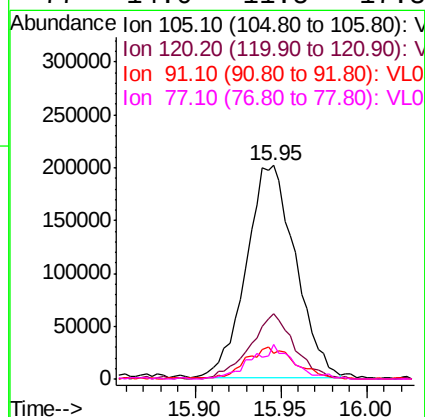
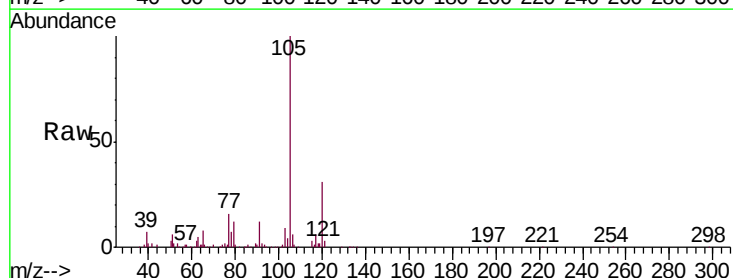
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

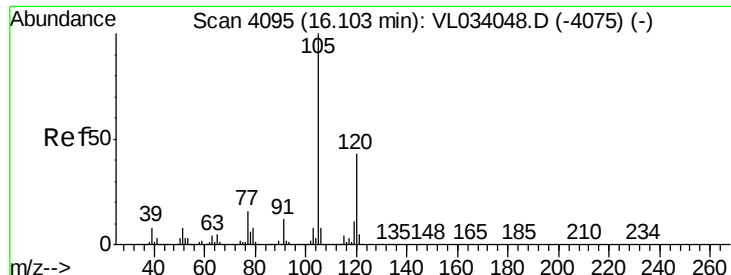
Tgt Ion: 91 Resp: 342521
 Ion Ratio Lower Upper
 91 100
 126 29.1 12.0 48.2



#72
 4-Ethyltoluene
 Concen: 0.959 ppbv
 RT: 15.95 min Scan# 4046
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion: 105 Resp: 401563
 Ion Ratio Lower Upper
 105 100
 120 27.8 23.0 34.4
 91 15.6 10.6 16.0
 77 14.0 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 1.078 ppbv

RT: 16.10 min Scan# 4095

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

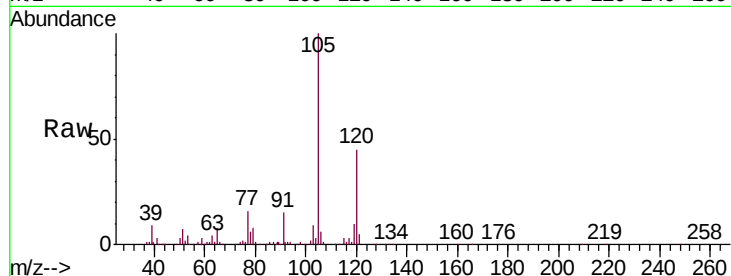
VSTDIC001

Tgt Ion:105 Resp: 416072

Ion Ratio Lower Upper

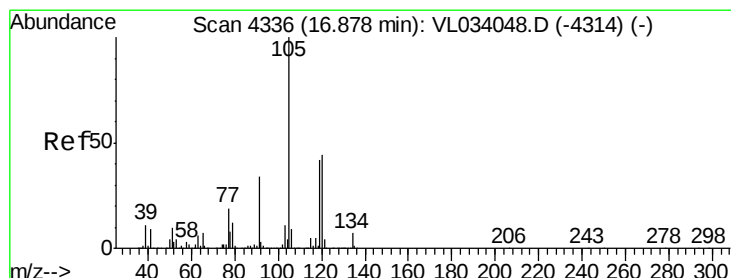
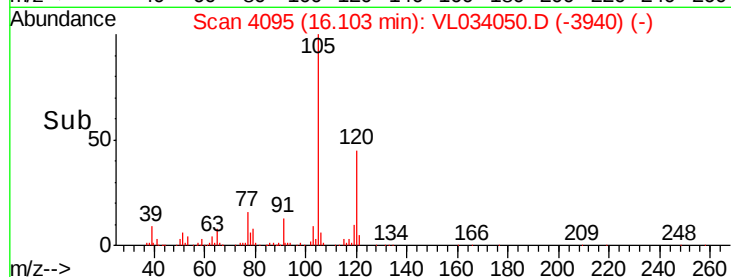
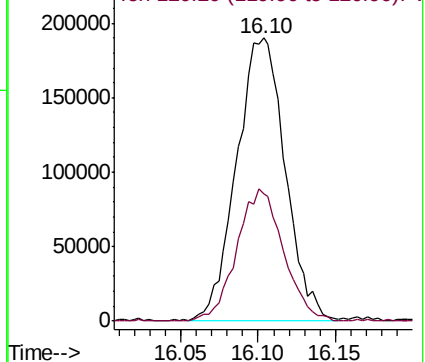
105 100

120 44.7 34.7 52.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.118 ppbv

RT: 16.87 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Tgt Ion:105 Resp: 477907

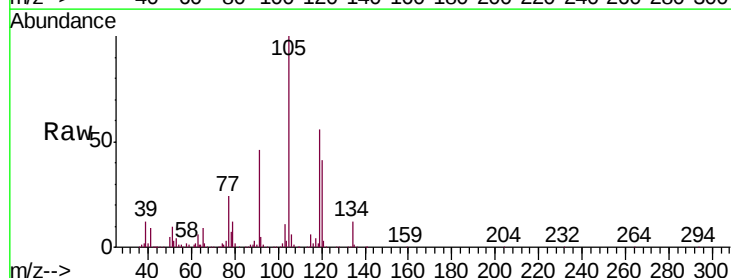
Ion Ratio Lower Upper

105 100

120 41.0 35.6 53.4

91 45.7 28.0 42.0#

77 23.2 15.2 22.8#

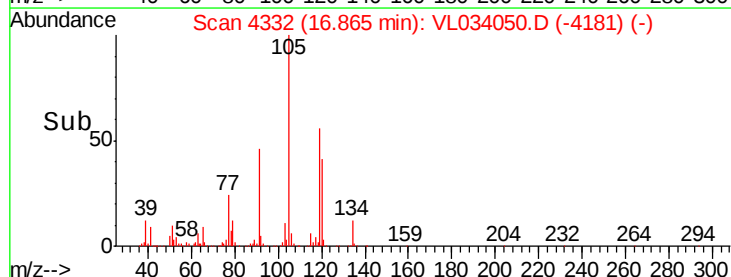
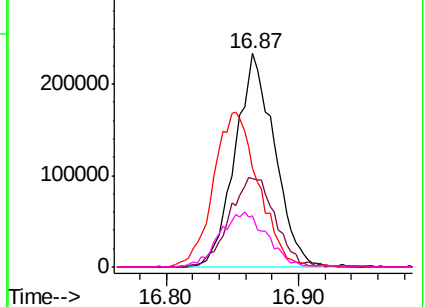


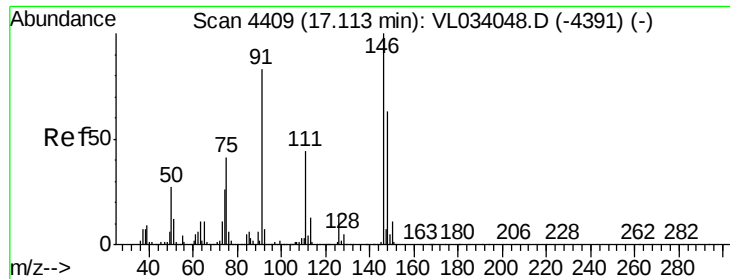
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

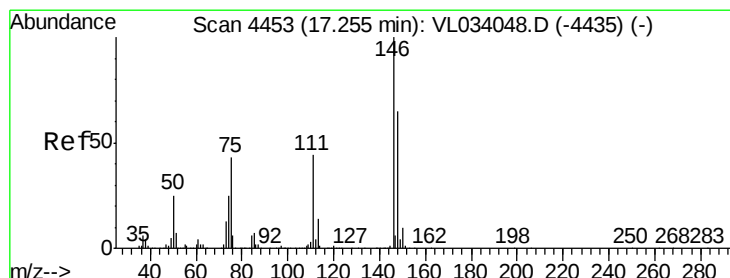
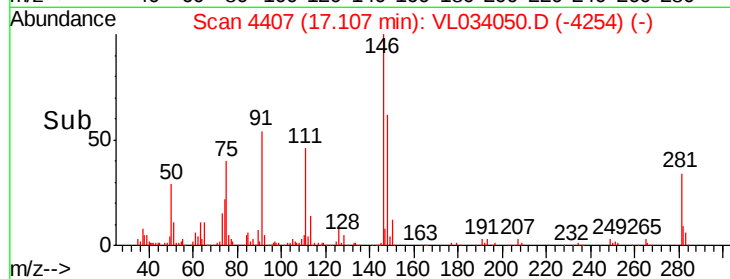
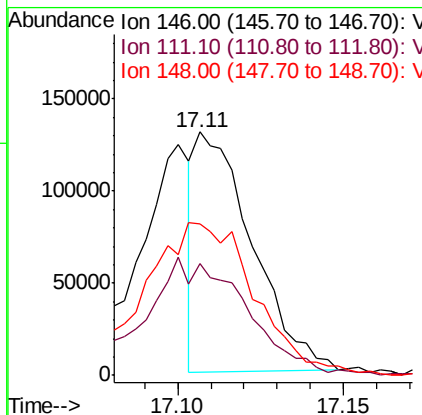
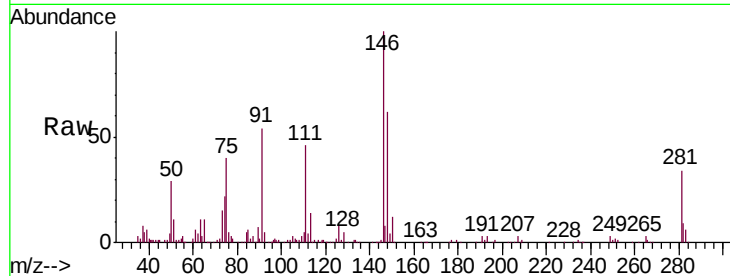




#75
 1,3-Dichlorobenzene
 Concen: 0.562 ppbv
 RT: 17.11 min Scan# 4407
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

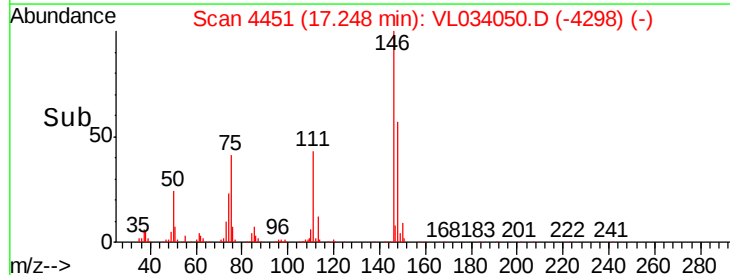
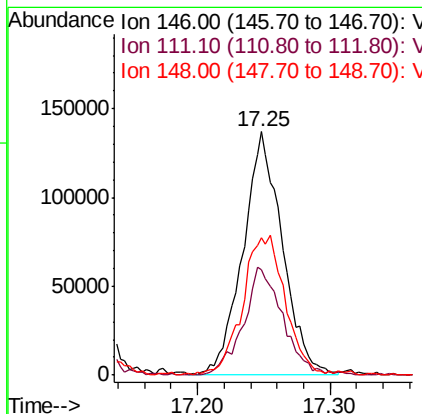
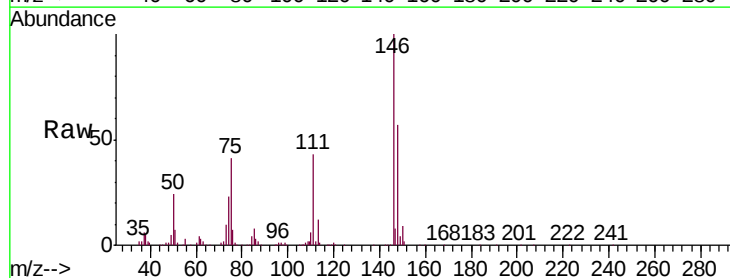
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

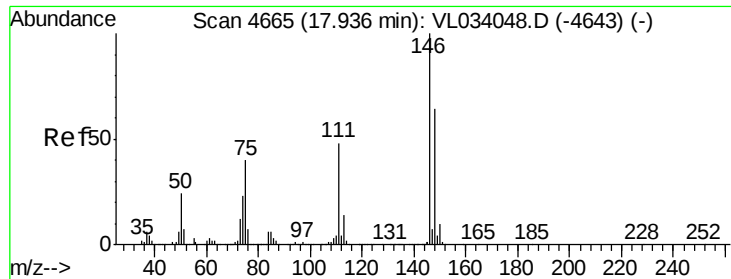
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	22.1	66.5#
148	127.0	32.0	96.2#



#76
 1,4-Dichlorobenzene
 Concen: 1.090 ppbv
 RT: 17.25 min Scan# 4451
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.0	21.8	65.4
148	63.7	32.3	96.9

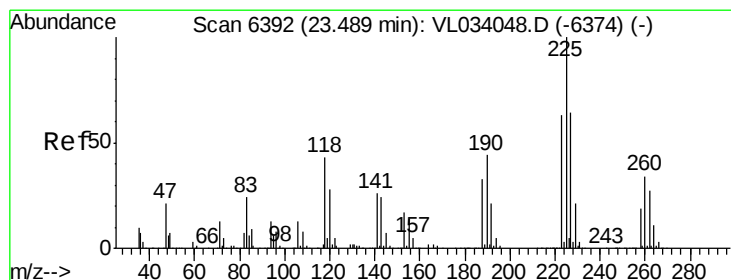
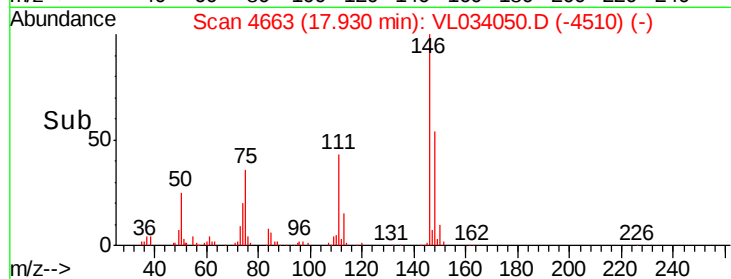
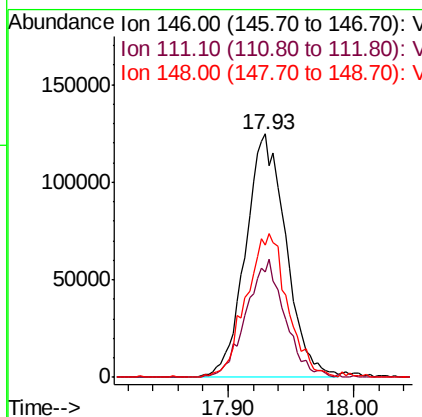
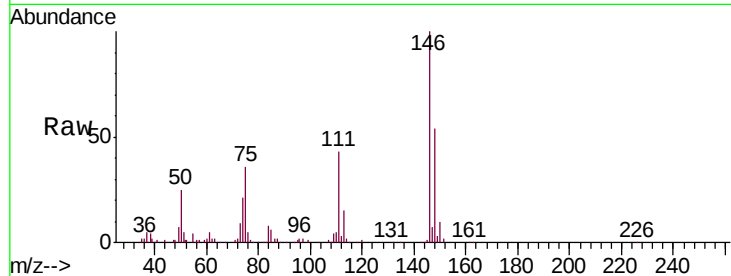




#77
 1,2-Dichlorobenzene
 Concen: 1.112 ppbv
 RT: 17.93 min Scan# 4663
 Delta R.T. -0.01 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

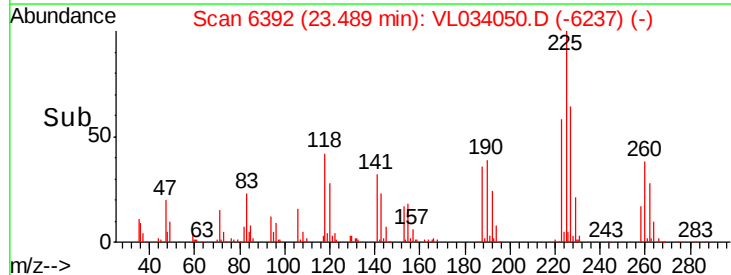
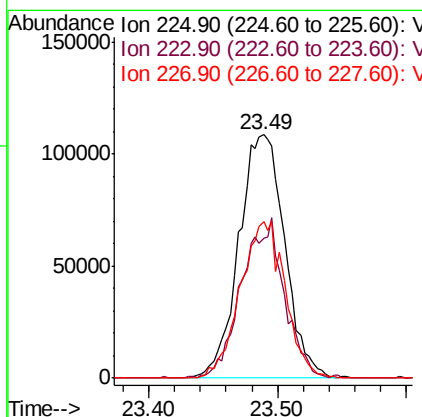
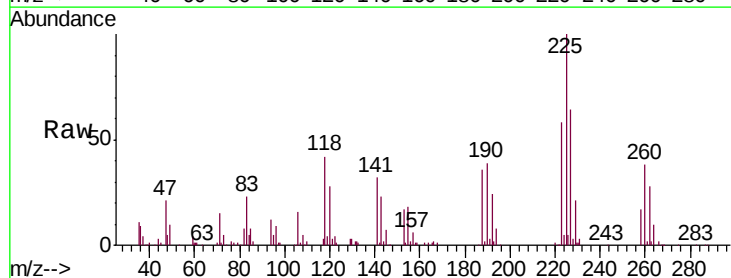
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

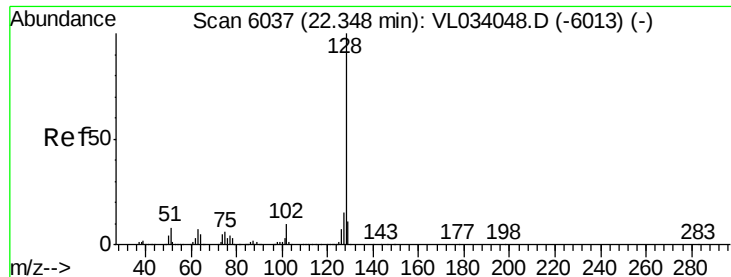
Tgt Ion:146 Resp: 280337
 Ion Ratio Lower Upper
 146 100
 111 46.0 23.4 70.2
 148 60.9 32.3 96.9



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.219 ppbv
 RT: 23.49 min Scan# 6392
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Tgt Ion:225 Resp: 268213
 Ion Ratio Lower Upper
 225 100
 223 61.3 49.6 74.4
 227 62.9 51.4 77.2





#79

Naphthalene

Concen: 0.445 ppbv

RT: 22.34 min Scan# 6034

Delta R.T. -0.01 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

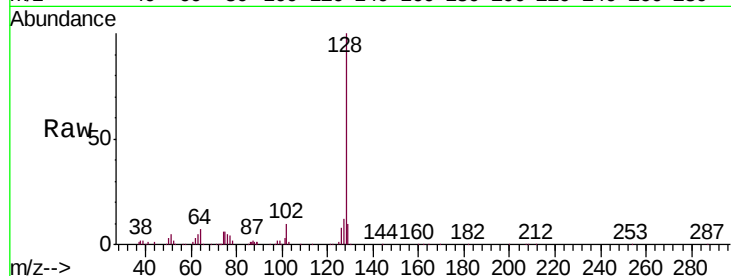
Tgt Ion:128 Resp: 160372

Ion Ratio Lower Upper

128 100

127 12.3 11.8 17.6

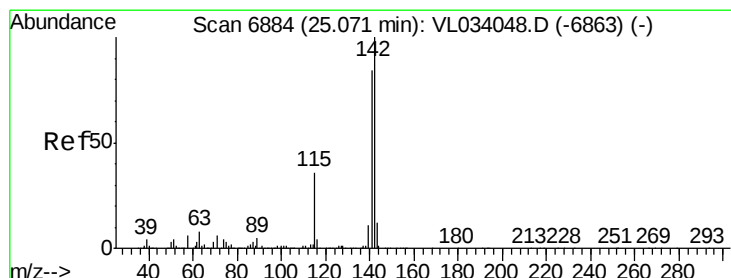
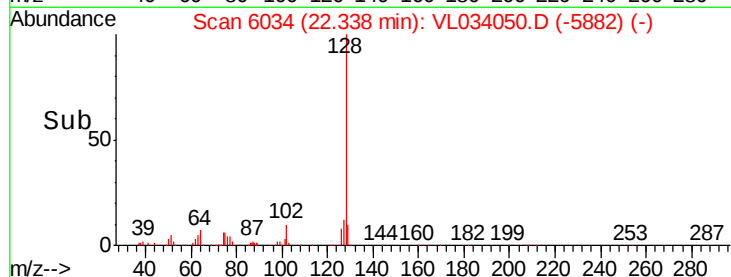
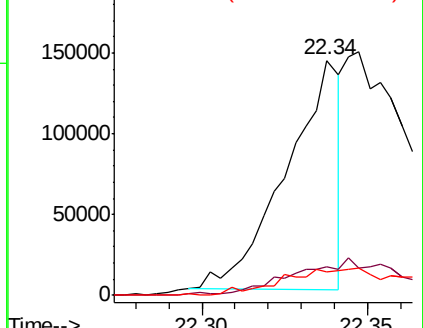
129 9.9 9.1 13.7



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 1.036 ppbv

RT: 25.07 min Scan# 6883

Delta R.T. -0.00 min

Lab File: VL034050.D

Acq: 30 Jul 2019 3:26

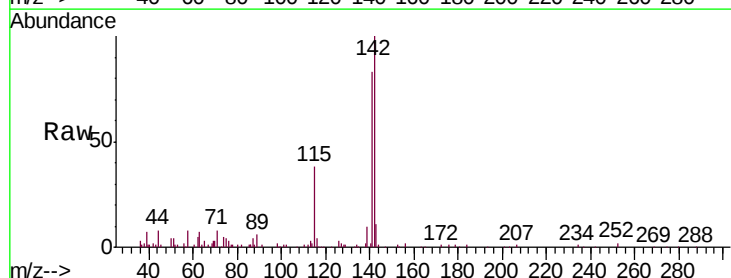
Tgt Ion:142 Resp: 135067

Ion Ratio Lower Upper

142 100

141 87.6 67.6 101.4

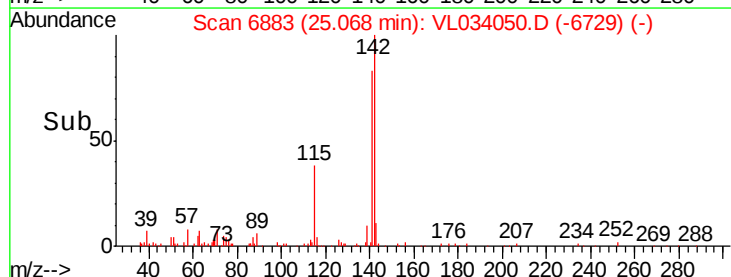
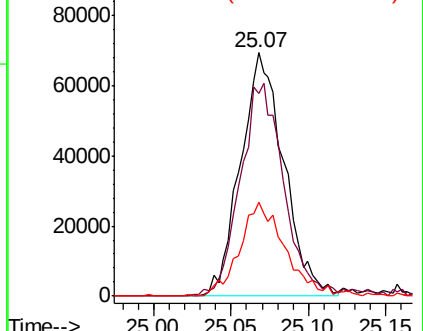
115 40.8 29.8 44.6

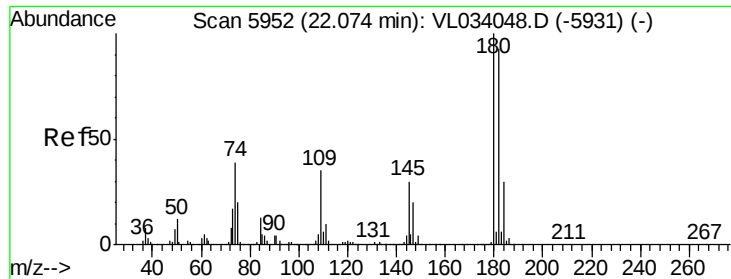


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.581 ppbv
 RT: 22.07 min Scan# 5952
 Delta R.T. -0.00 min
 Lab File: VL034050.D
 Acq: 30 Jul 2019 3:26

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
180	100		
182	181.1	76.5	114.7#
184	0.0	24.5	36.7#

