

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
 Data File : VL033323.D
 Acq On : 15 Mar 2019 6:48
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Mar 15 07:27:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 06:50:23 2019
 QLast Update : Fri Mar 15 07:08:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	844257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1988493	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2376102	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1703937	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	2218901	14.401	ppbv	99
3) Chlorodifluoromethane	3.02	51	1373855	14.034	ppbv	99
4) Chloromethane	3.17	50	751280	14.140	ppbv	97
5) Vinyl Chloride	3.29	62	746470	13.857	ppbv	94
6) Bromomethane	3.52	94	463279	14.181	ppbv	99
7) Chloroethane	3.60	64	269010	13.865	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1848872	14.005	ppbv	99
9) Propene	3.04	41	610600	13.884	ppbv	99
10) Heptane	8.25	43	1606557	14.614	ppbv	100
11) Trichlorofluoromethane	4.01	101	2046292	13.887	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1359786	14.136	ppbv	100
13) Ethanol	3.65	45	140838	6.167	ppbv	98
14) Bromoethene	3.79	108	583273	14.383	ppbv	99
15) Acetone	3.90	43	1298501	9.279	ppbv	100
16) 1,3-Butadiene	3.36	39	673338	14.797	ppbv	96
17) tert-Butyl alcohol	4.36	59	239639	12.578	ppbv	99
18) 1,1-Dichloroethene	4.35	96	611430	14.402	ppbv	99
19) Isopropyl Alcohol	4.03	45	847348	12.658	ppbv	100
20) Methylene Chloride	4.41	84	520804	12.088	ppbv	98
21) Allyl Chloride	4.48	41	965152	15.115	ppbv	98
22) trans-1,2-Dichloroethene	4.97	96	635823	15.248	ppbv	98
23) Vinyl Acetate	5.16	43	2192539	14.410	ppbv	99
24) 1,1-Dichloroethane	5.10	63	1516238	13.885	ppbv	100
25) Ethyl Acetate	5.77	43	2643319	13.928	ppbv	100
26) Hexane	5.79	57	1169186	13.360	ppbv	100
27) Carbon Disulfide	4.62	76	1562122	16.499	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1776504	14.271	ppbv	100
29) Chloroform	5.85	83	1984422	14.042	ppbv	100
30) Cyclohexane	7.25	84	1017451	15.013	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	1253217	14.716	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2001548	14.366	ppbv	100
34) 2-Butanone	5.33	43	1713422	13.272	ppbv	100
35) Carbon Tetrachloride	7.14	117	2119590	14.731	ppbv	99
36) Benzene	7.01	78	2520775	13.992	ppbv	96
37) 1,2-Dichloroethane	6.42	62	1569396	13.967	ppbv	100
38) Trichloroethene	7.97	130	966465	13.636	ppbv	98
39) 1,2-Dichloropropane	7.74	63	965499	14.105	ppbv	97
40) 1,4-Dioxane	7.96	88	344468	13.655	ppbv #	94
41) Tetrahydrofuran	6.15	42	1021723	14.513	ppbv	100
42) Bromodichloromethane	7.92	83	2239388	14.784	ppbv	99
43) Methyl Methacrylate	8.14	69	1054905	15.280	ppbv	99

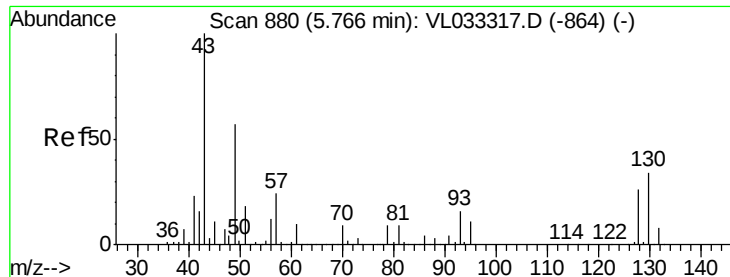
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031519\
 Data File : VL033323.D
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 QLast Update : Fri Mar 15 07:08:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4172148	13.766	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1471385	18.031	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	1625877	16.664	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1054400	14.371	ppbv	97
48) Dibromochloromethane	10.46	129	1937781	15.740	ppbv	100
49) Bromoform	13.21	173	1947811	18.001	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	2628433	14.072	ppbv	100
51) 2-Hexanone	10.28	43	2134766	14.416	ppbv #	100
52) Tetrachloroethene	11.38	164	1059927	14.724	ppbv	99
53) Toluene	9.95	91	3026628	14.911	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1890627	16.199	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1482503	13.655	ppbv #	75
57) Chlorobenzene	12.31	112	2501102	12.878	ppbv	99
58) Ethyl Benzene	12.87	91	4758993	13.959	ppbv	100
59) m/p-Xylene	13.16	91	3856855	13.197	ppbv #	28
60) o-Xylene	13.86	91	3841769	13.405	ppbv	100
61) Styrene	13.70	104	2914762	14.846	ppbv	100
62) Isopropylbenzene	14.83	105	5342107	13.505	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.85	83	2662221	12.219	ppbv	100
64) n-propylbenzene	15.73	120	1372279	13.799	ppbv	99
65) tert-Butylbenzene	16.92	119	4785685	13.047	ppbv	99
66) Benzyl Chloride	17.17	91	2768810	20.349	ppbv	100
67) sec-Butylbenzene	17.47	105	6816920	12.995	ppbv	100
69) p-Isopropyltoluene	17.83	119	5626326	13.218	ppbv	100
70) n-Butylbenzene	18.72	91	6006579	13.210	ppbv	100
71) 2-Chlorotoluene	15.62	91	4236413	13.437	ppbv	99
72) 4-Ethyltoluene	16.01	105	4502988	13.853	ppbv	100
73) 1,3,5-Trimethylbenzene	16.17	105	4300797	13.252	ppbv	99
74) 1,2,4-Trimethylbenzene	16.94	105	4392735	12.776	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2527823	12.611	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	2576538	13.151	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	2510462	13.016	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1376617	11.633	ppbv	100
79) Naphthalene	22.42	128	4386590	13.126	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	1948619	11.890	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	2180232	12.469	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. 0.00 min

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VSTDIC015

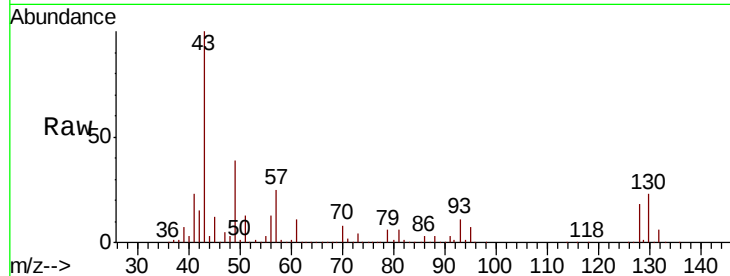
Tgt Ion: 49 Resp: 844257

Ion Ratio Lower Upper

49 100

128 46.1 23.2 69.6

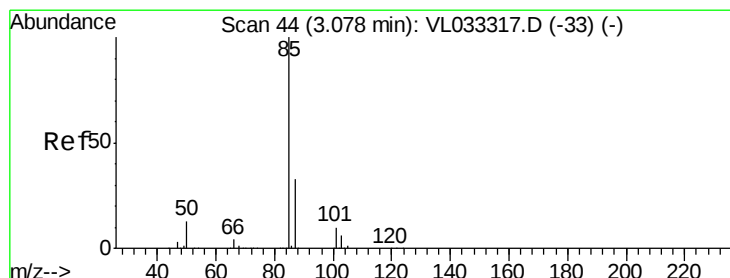
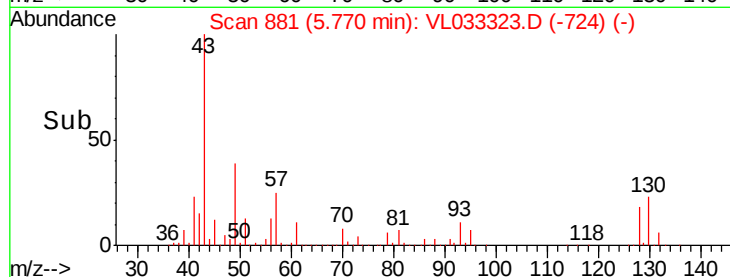
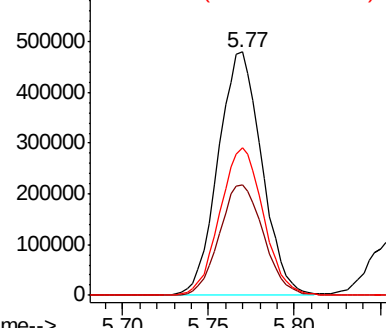
130 60.7 30.1 90.5



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: 14.401 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033323.D

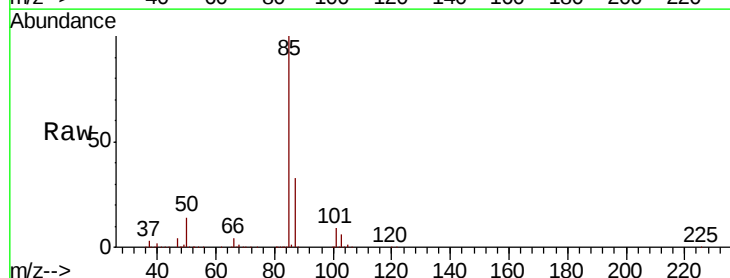
Acq: 15 Mar 2019 6:48

Tgt Ion: 85 Resp: 2218901

Ion Ratio Lower Upper

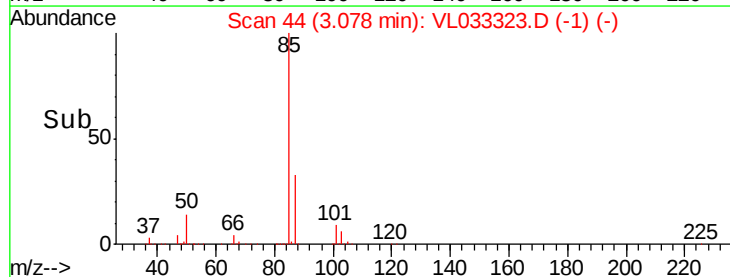
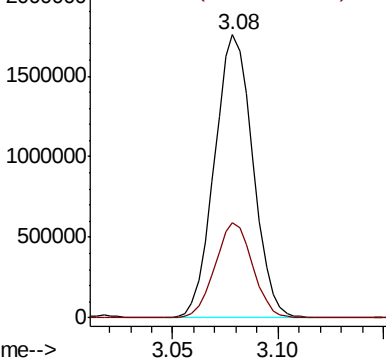
85 100

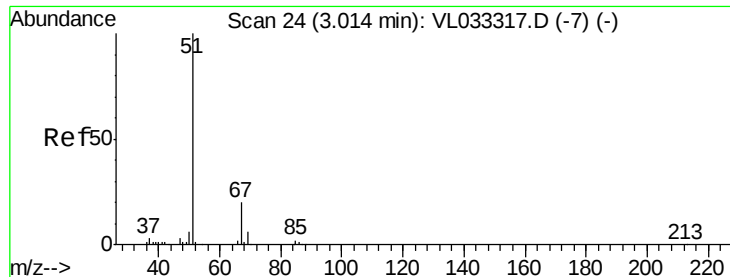
87 33.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

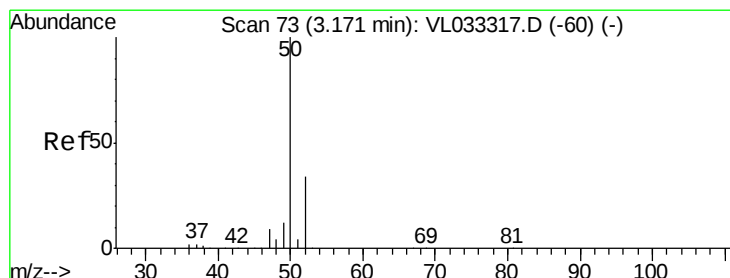
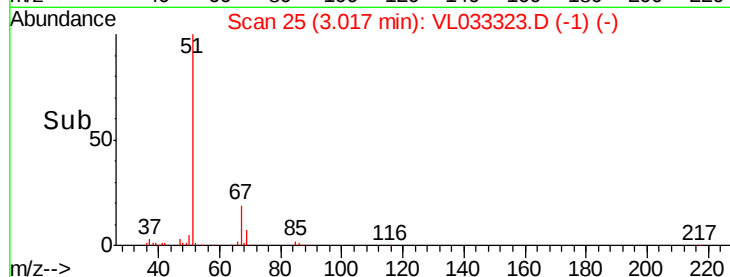
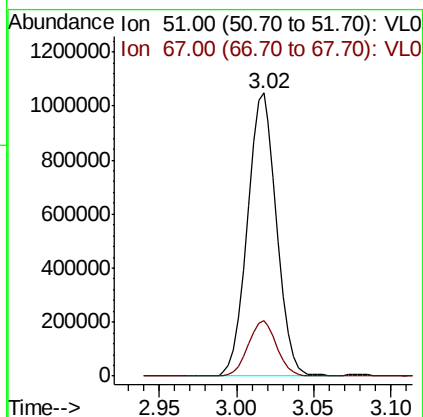
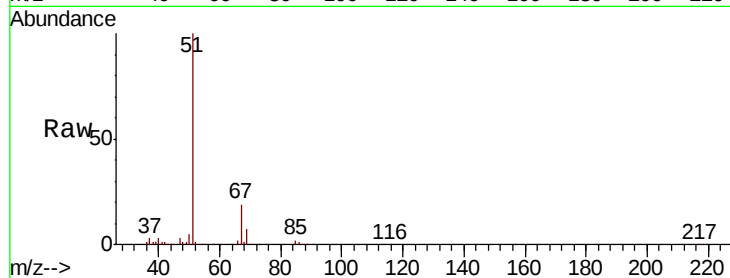




#3
 Chlorodifluoromethane
 Concen: 14.034 ppbv
 RT: 3.02 min Scan# 25
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

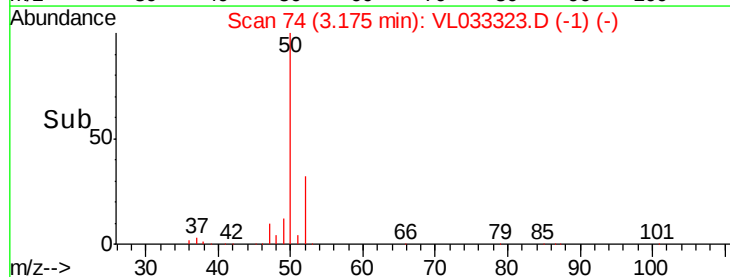
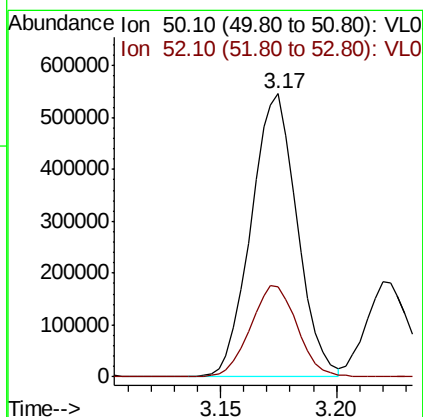
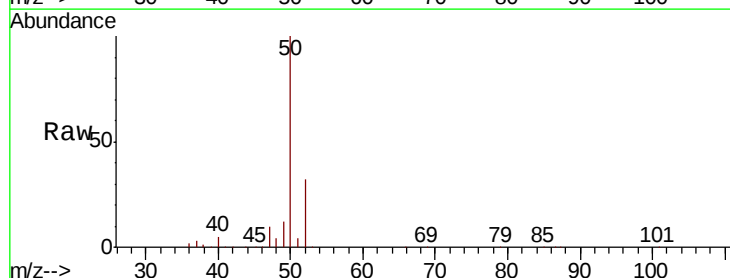
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

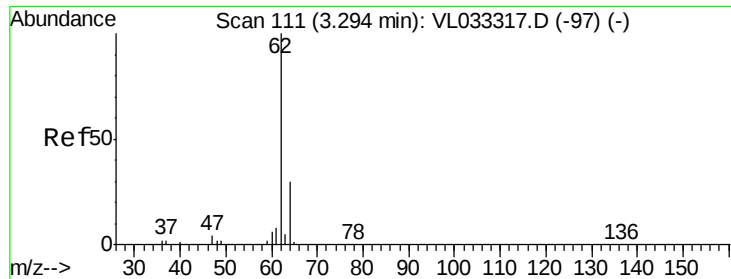
Tgt Ion: 51 Resp: 1373855
 Ion Ratio Lower Upper
 51 100
 67 19.2 15.1 22.7



#4
 Chloromethane
 Concen: 14.140 ppbv
 RT: 3.17 min Scan# 74
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 50 Resp: 751280
 Ion Ratio Lower Upper
 50 100
 52 31.9 26.8 40.2





#5

Vinyl Chloride

Concen: 13.857 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

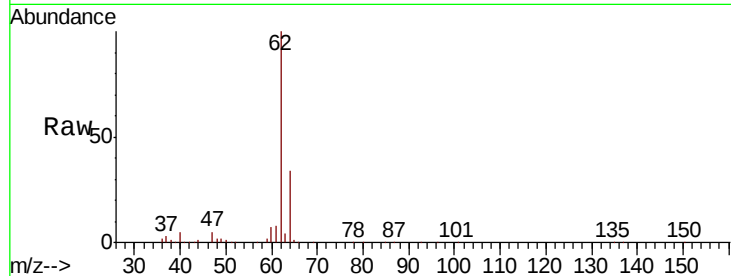
VSTDIC015

Tgt Ion: 62 Resp: 746470

Ion Ratio Lower Upper

62 100

64 33.8 24.3 36.5



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

600000

500000

400000

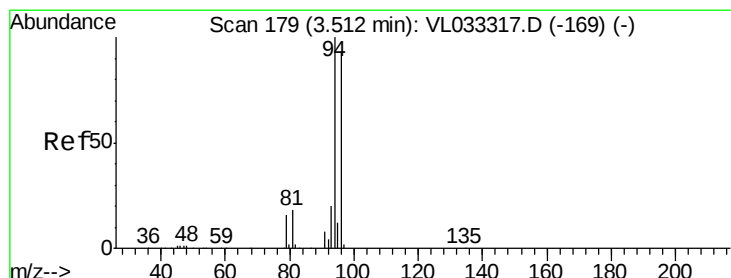
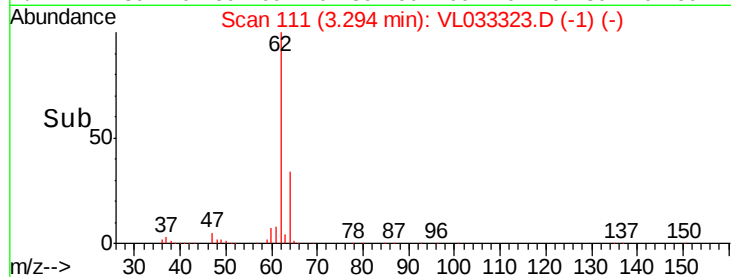
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 14.181 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033323.D

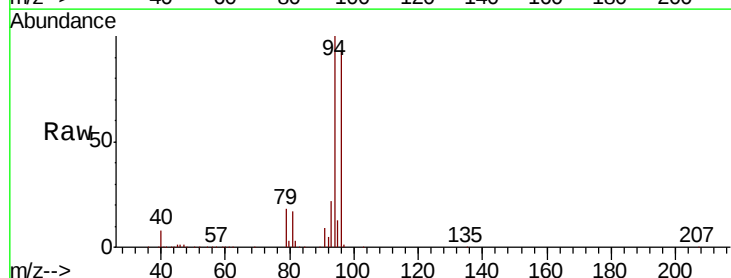
Acq: 15 Mar 2019 6:48

Tgt Ion: 94 Resp: 463279

Ion Ratio Lower Upper

94 100

96 92.9 74.8 112.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

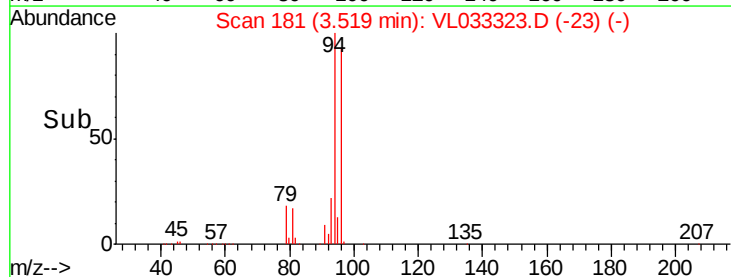
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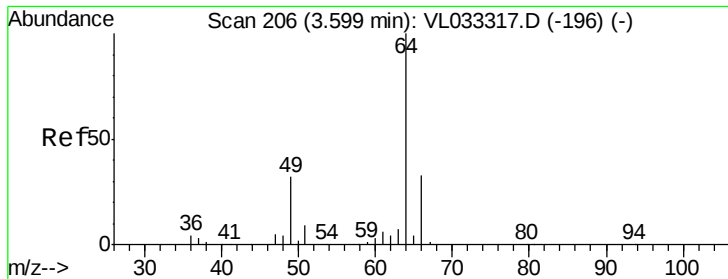
200000

100000

0

Time-->





#7

Chloroethane

Concen: 13.865 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

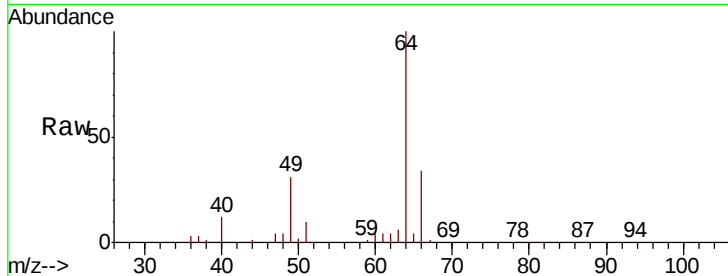
VSTDIC015

Tgt Ion: 64 Resp: 269010

Ion Ratio Lower Upper

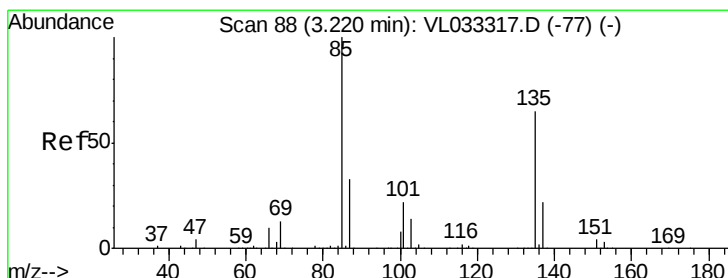
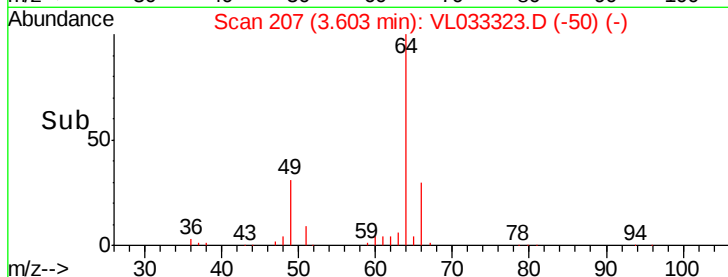
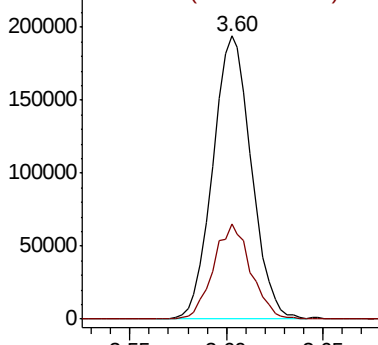
64 100

66 33.5 26.6 39.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 14.005 ppbv

RT: 3.22 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL033323.D

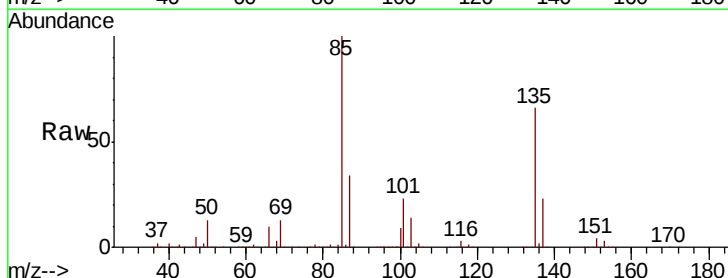
Acq: 15 Mar 2019 6:48

Tgt Ion: 85 Resp: 1848872

Ion Ratio Lower Upper

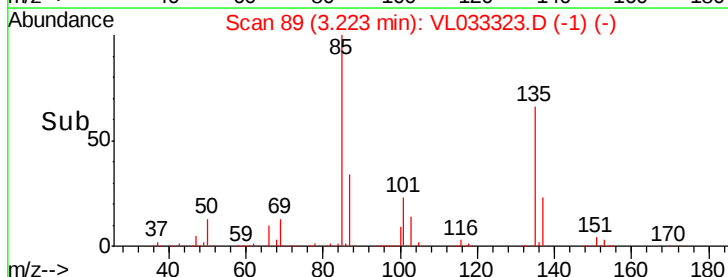
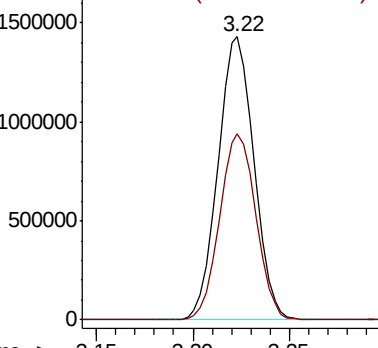
85 100

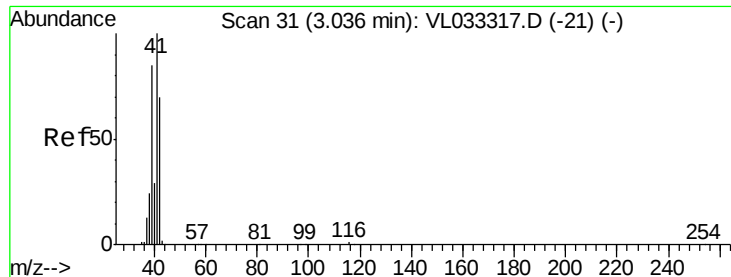
135 66.6 52.6 79.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 13.884 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

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ClientSampleId :

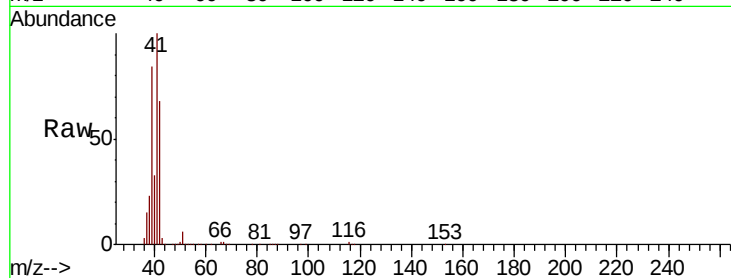
VSTDIC015

Tgt Ion: 41 Resp: 610600

Ion Ratio Lower Upper

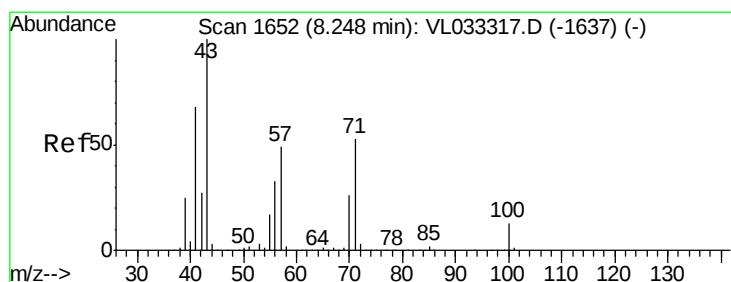
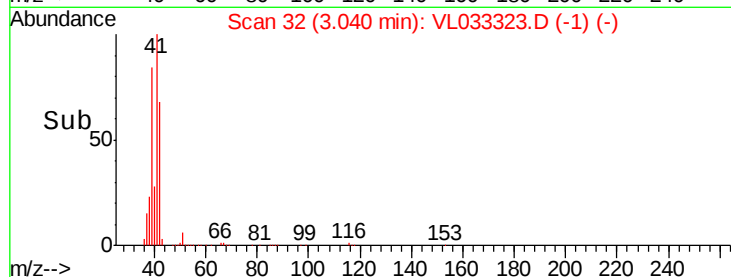
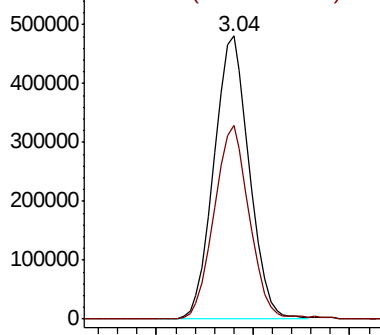
41 100

42 68.9 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 14.614 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033323.D

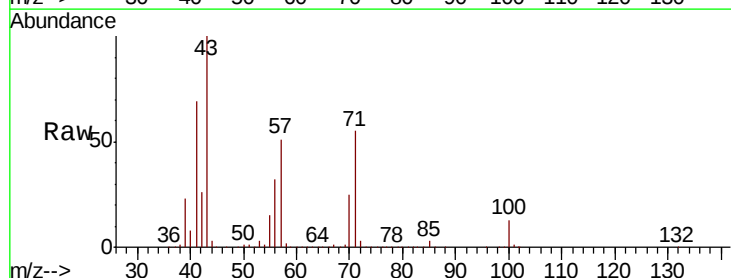
Acq: 15 Mar 2019 6:48

Tgt Ion: 43 Resp: 1606557

Ion Ratio Lower Upper

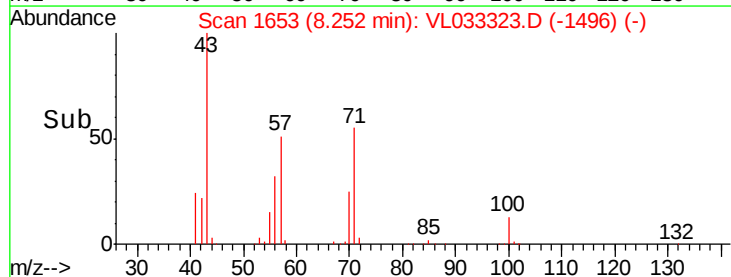
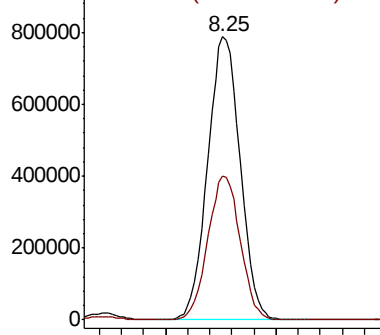
43 100

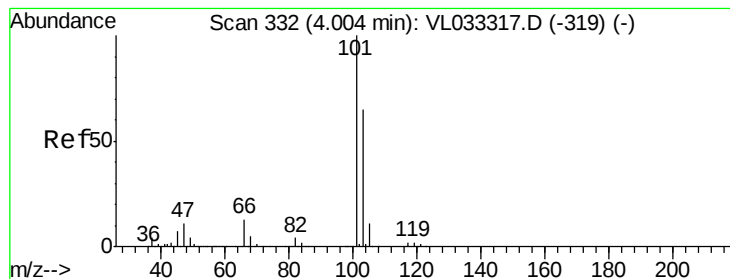
57 50.7 40.6 61.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 13.887 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

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ClientSampleId :

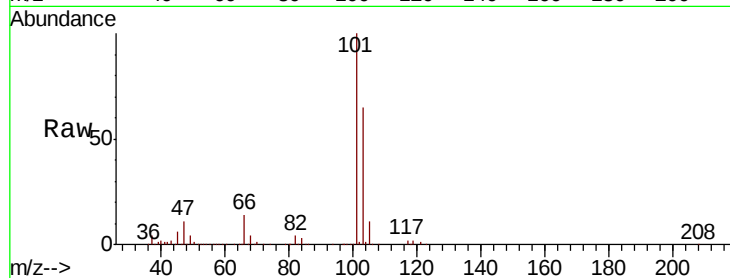
VSTDIC015

Tgt Ion:101 Resp: 2046292

Ion Ratio Lower Upper

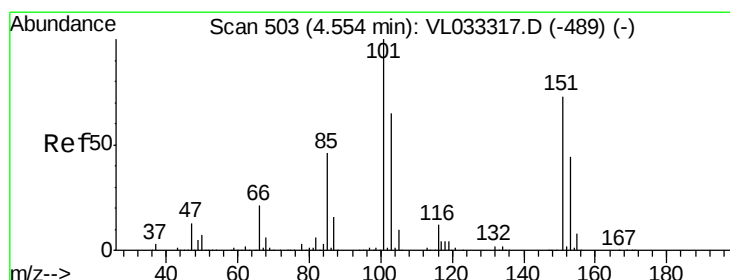
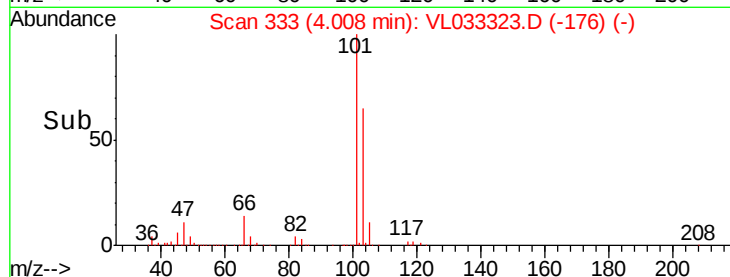
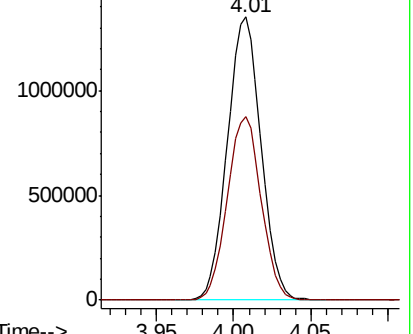
101 100

103 64.8 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 14.136 ppbv

RT: 4.55 min Scan# 503

Delta R.T. 0.00 min

Lab File: VL033323.D

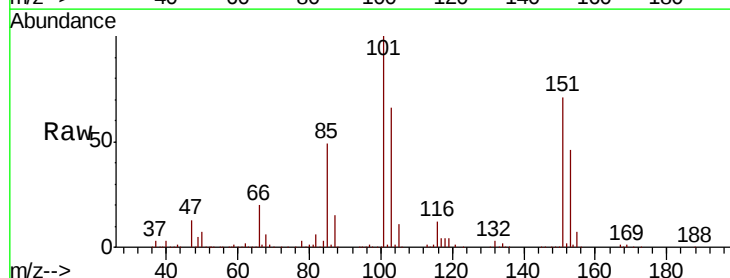
Acq: 15 Mar 2019 6:48

Tgt Ion:101 Resp: 1359786

Ion Ratio Lower Upper

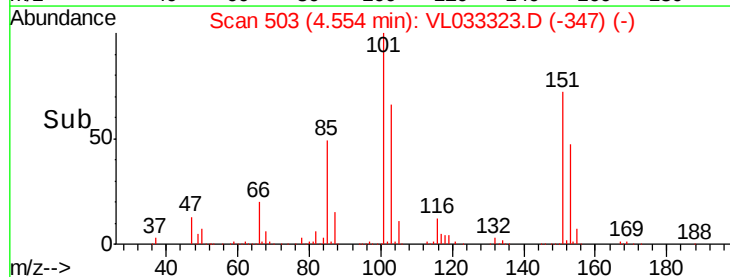
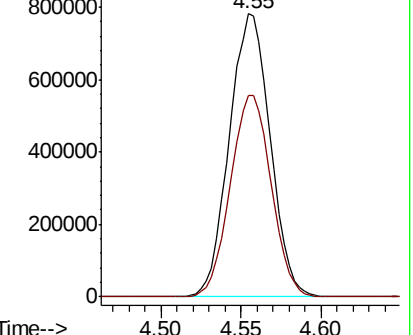
101 100

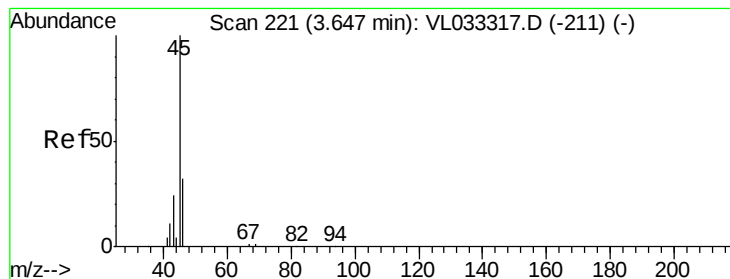
151 71.4 57.2 85.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 6.167 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

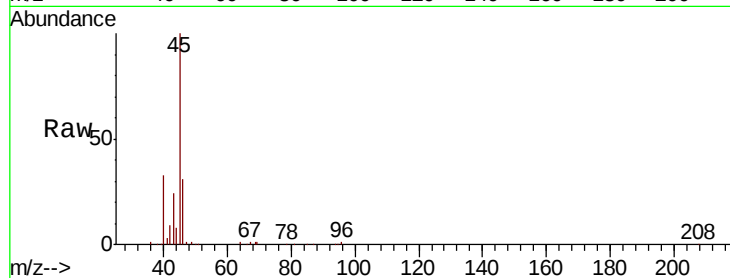
VSTDIC015

Tgt Ion: 45 Resp: 140838

Ion Ratio Lower Upper

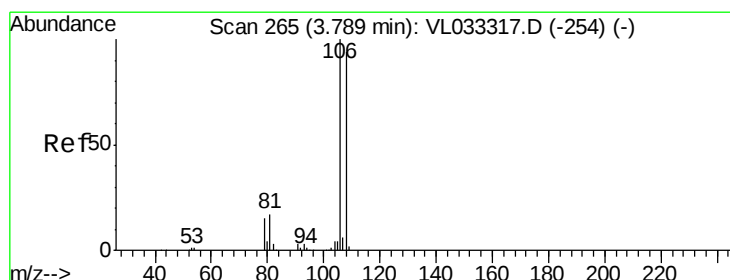
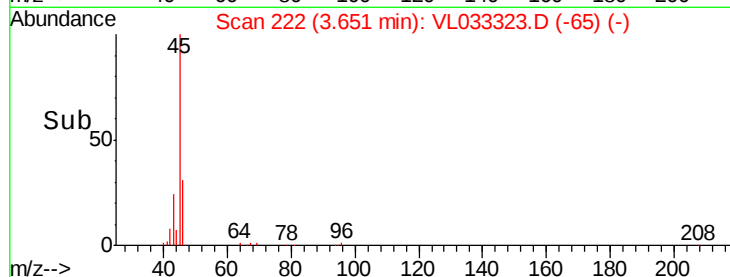
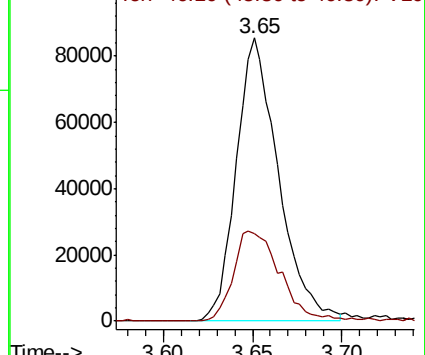
45 100

46 35.6 14.7 58.9



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 14.383 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

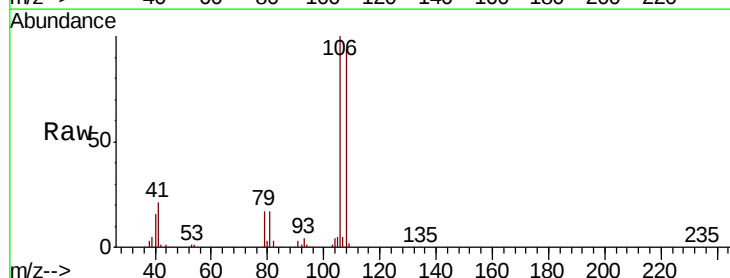
Tgt Ion: 108 Resp: 583273

Ion Ratio Lower Upper

108 100

106 106.9 85.1 127.7

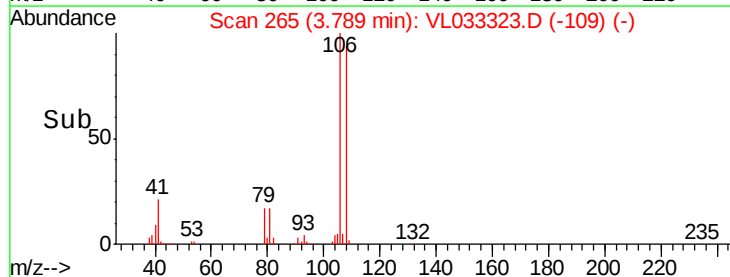
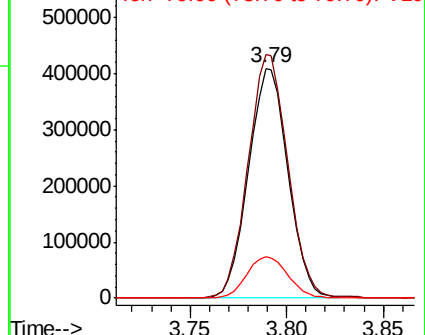
79 19.1 14.6 22.0

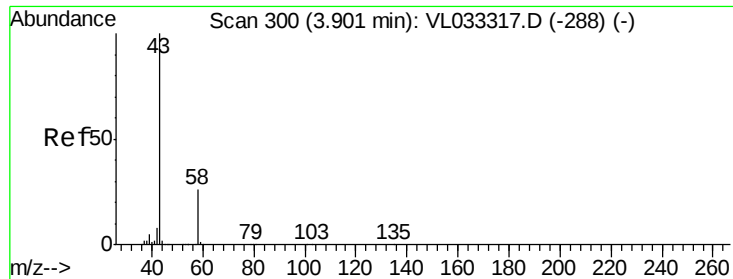


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 9.279 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

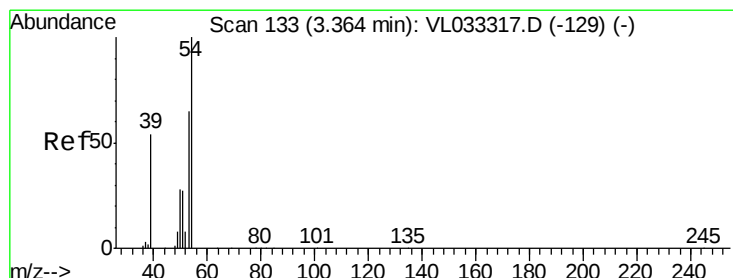
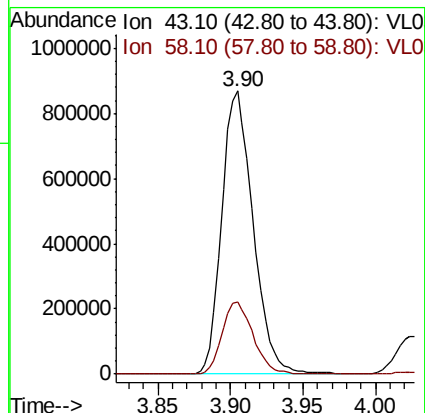
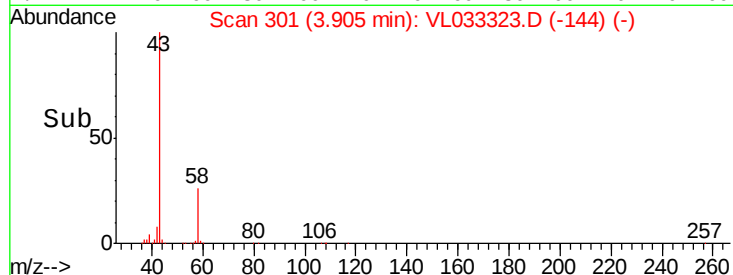
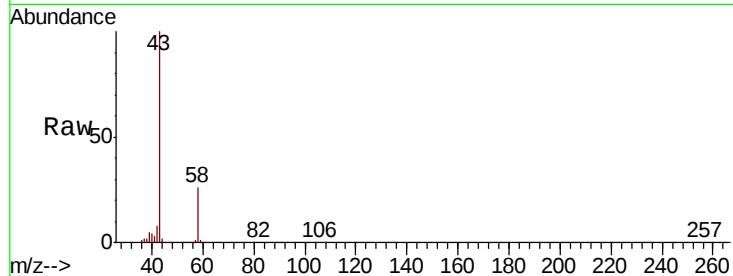
VSTDIC015

Tgt Ion: 43 Resp: 1298501

Ion Ratio Lower Upper

43 100

58 25.4 20.3 30.5



#16

1,3-Butadiene

Concen: 14.797 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033323.D

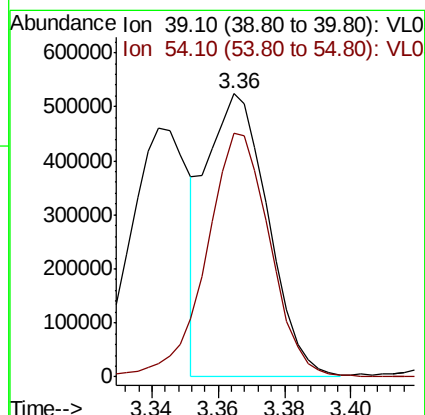
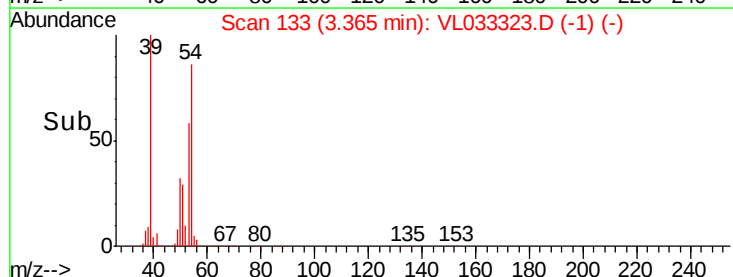
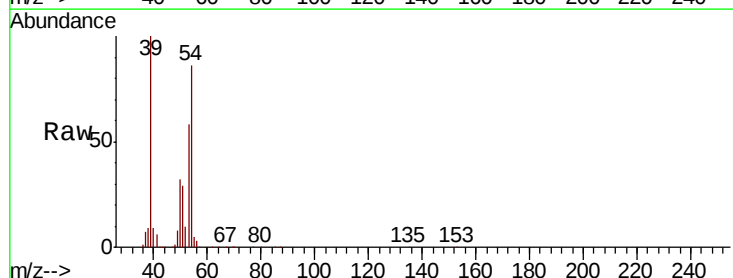
Acq: 15 Mar 2019 6:48

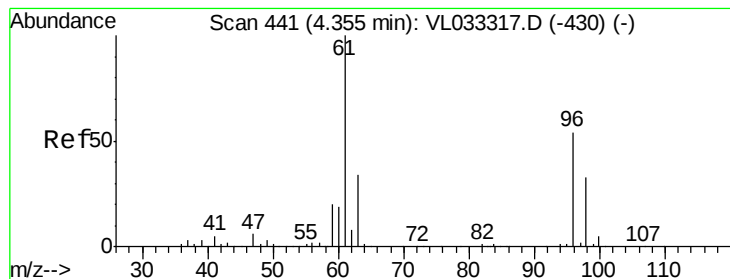
Tgt Ion: 39 Resp: 673338

Ion Ratio Lower Upper

39 100

54 89.4 74.4 111.6





#17

tert-Butyl alcohol

Concen: 12.578 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

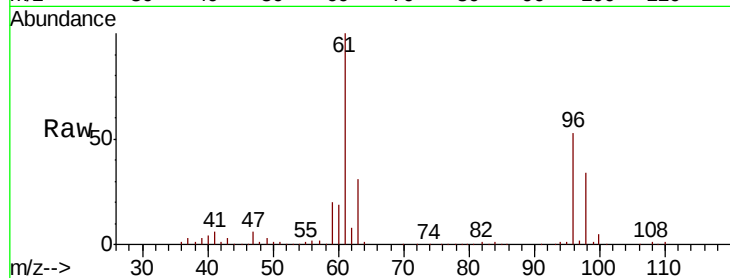
VSTDIC015

Tgt Ion: 59 Resp: 239639

Ion Ratio Lower Upper

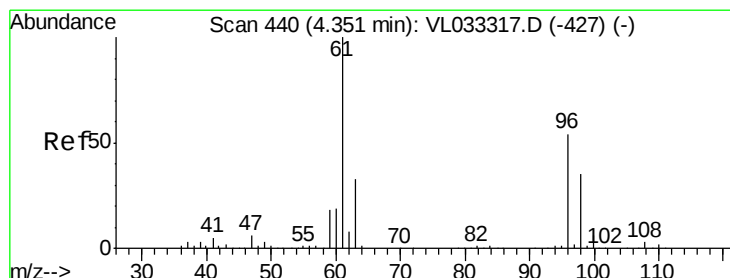
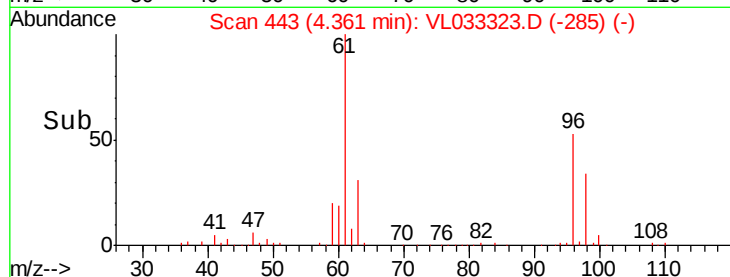
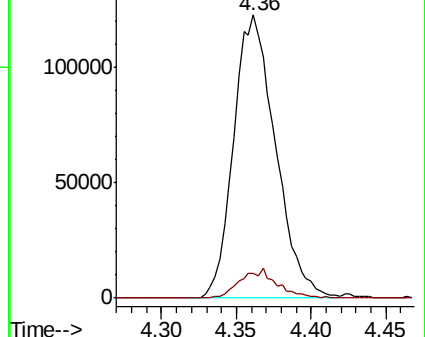
59 100

57 9.3 7.8 11.8



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 14.402 ppbv

RT: 4.35 min Scan# 441

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

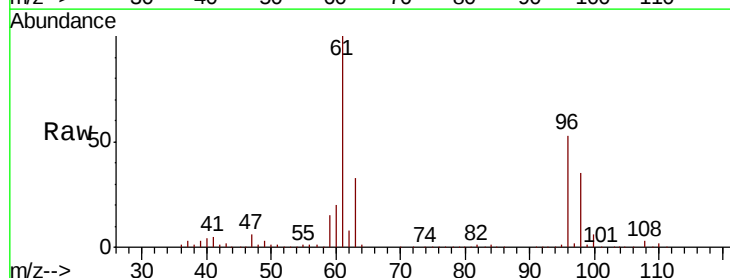
Tgt Ion: 96 Resp: 611430

Ion Ratio Lower Upper

96 100

61 187.1 148.9 223.3

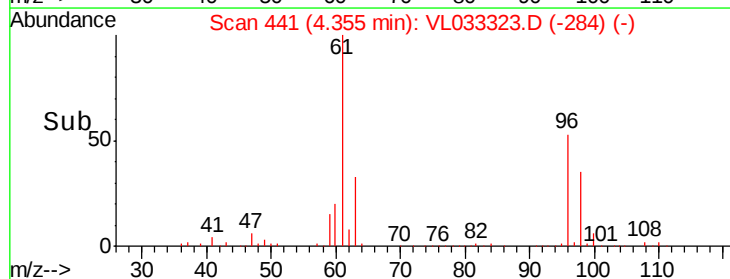
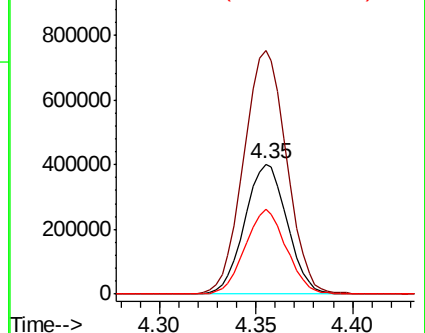
98 64.8 51.4 77.0

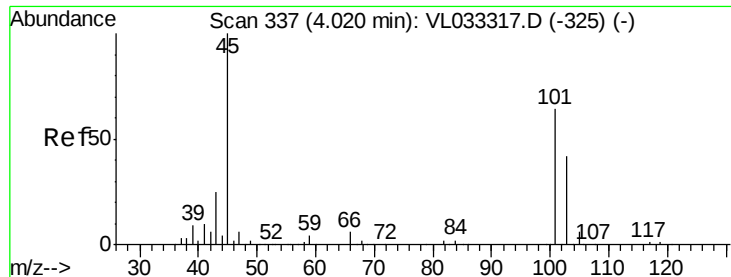


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 12.658 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

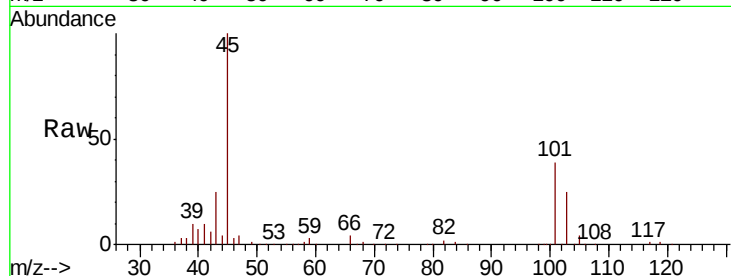
VSTDIC015

Tgt Ion: 45 Resp: 847348

Ion Ratio Lower Upper

45 100

58 1.9 1.6 2.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

500000

400000

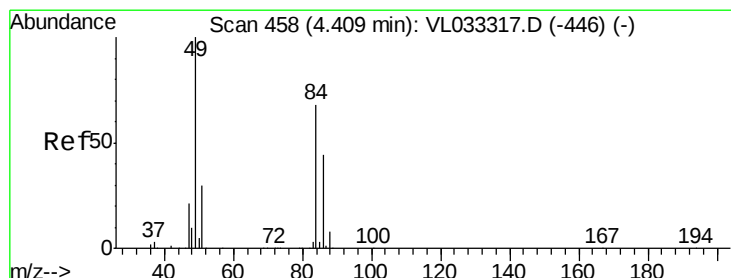
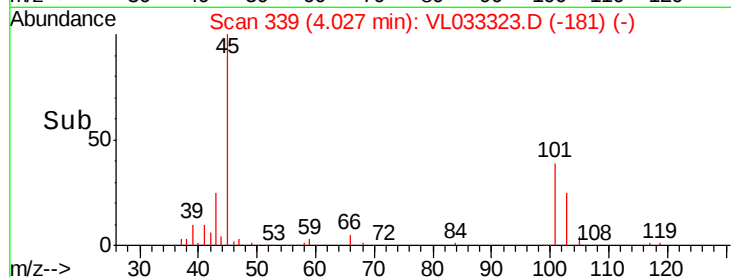
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 12.088 ppbv

RT: 4.41 min Scan# 459

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Tgt Ion: 84 Resp: 520804

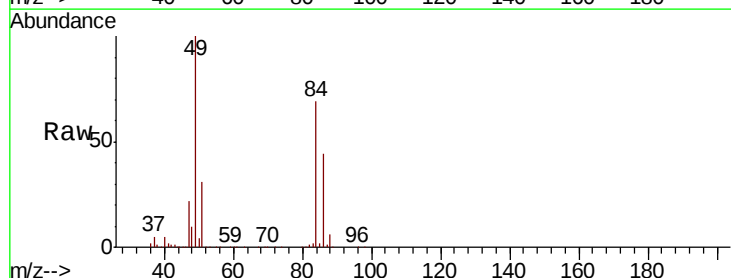
Ion Ratio Lower Upper

84 100

49 143.4 117.0 175.6

51 44.1 35.3 52.9

86 62.8 51.2 76.8



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

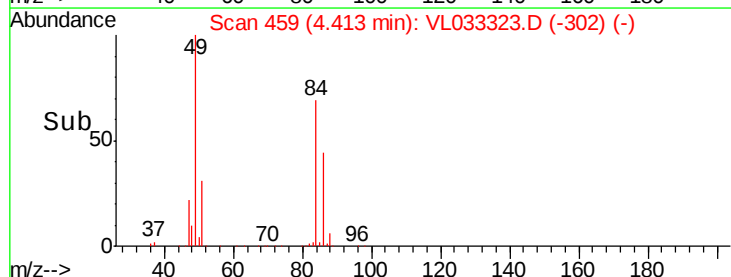
600000

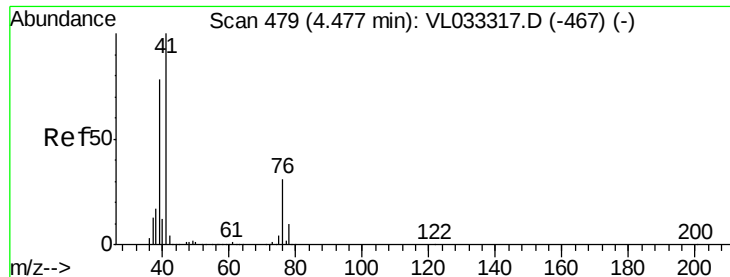
400000

200000

0

Time-->





#21

Allyl Chloride

Concen: 15.115 ppbv

RT: 4.48 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

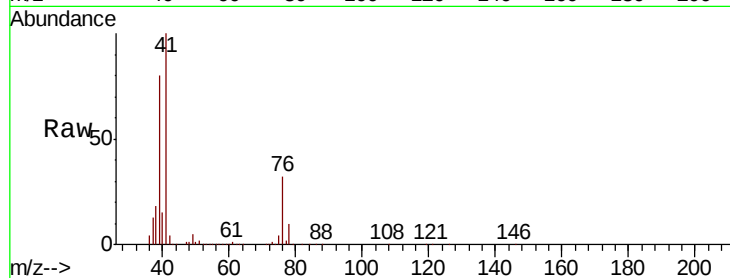
Tgt Ion: 41 Resp: 965152

Ion Ratio Lower Upper

41 100

76 31.2 24.1 36.1

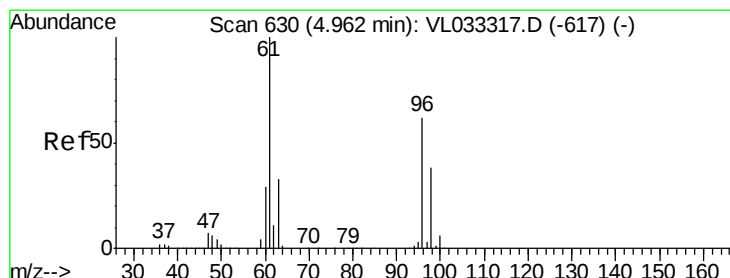
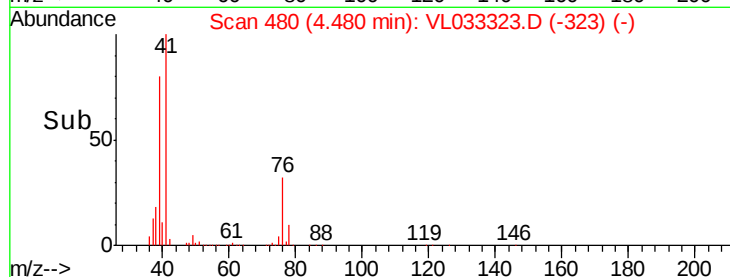
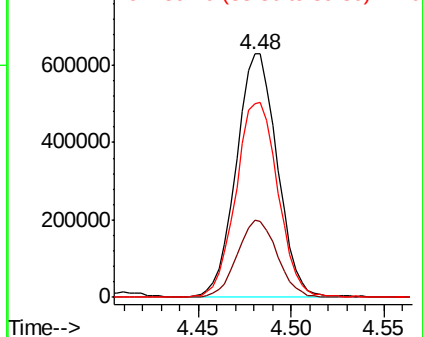
39 82.6 65.0 97.4



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: 15.248 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

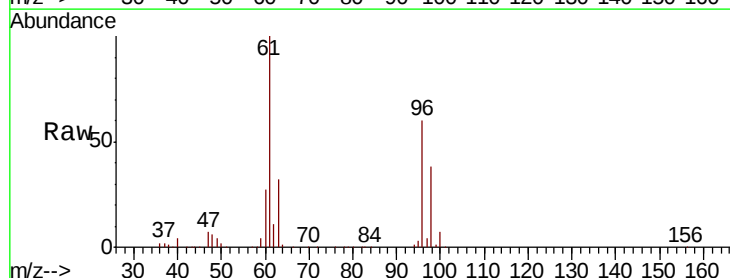
Tgt Ion: 96 Resp: 635823

Ion Ratio Lower Upper

96 100

61 165.5 129.8 194.8

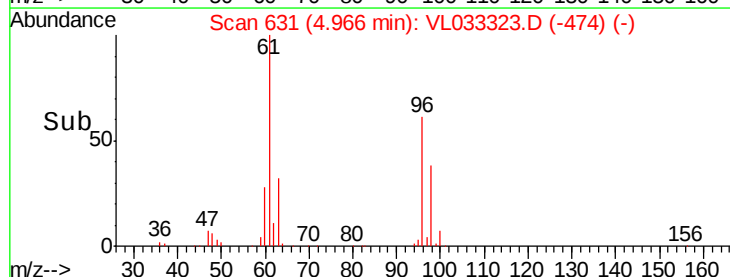
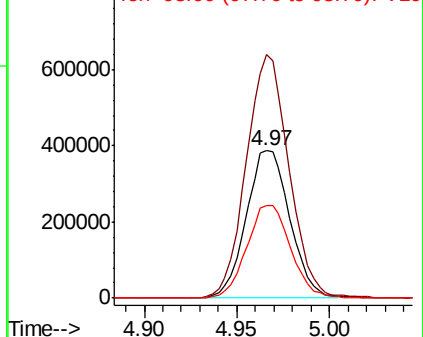
98 63.1 49.2 73.8

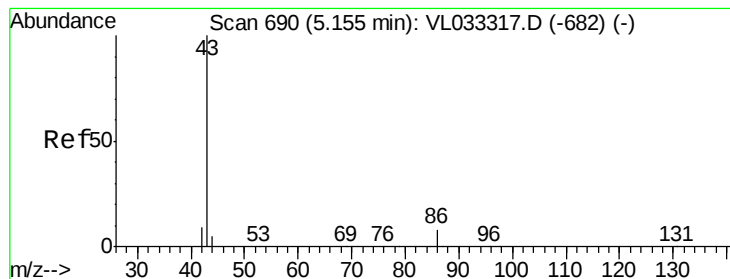


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 14.410 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 2192539

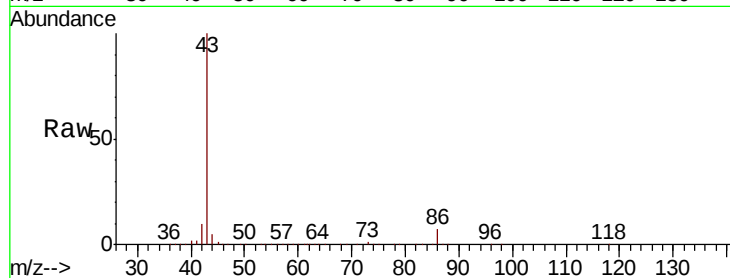
Ion Ratio Lower Upper

43 100

86 7.2 5.6 8.4

42 10.1 7.8 11.6

44 5.1 4.2 6.4

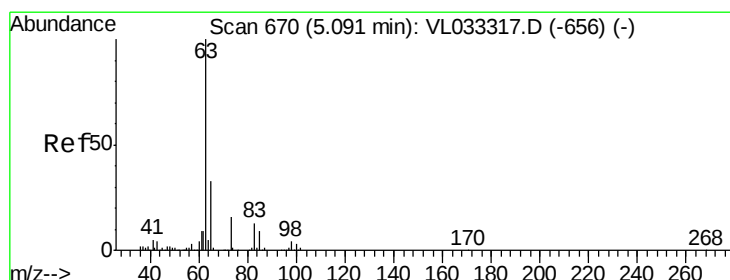
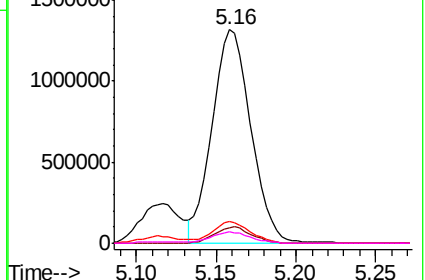
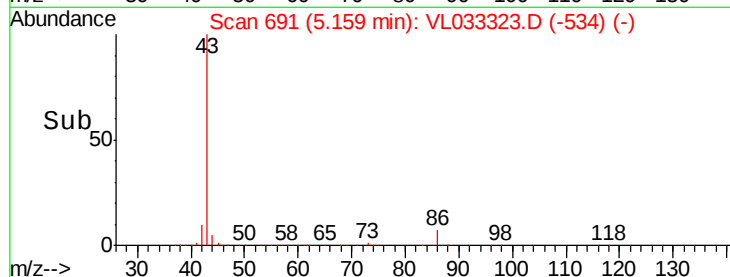


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 13.885 ppbv

RT: 5.10 min Scan# 672

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

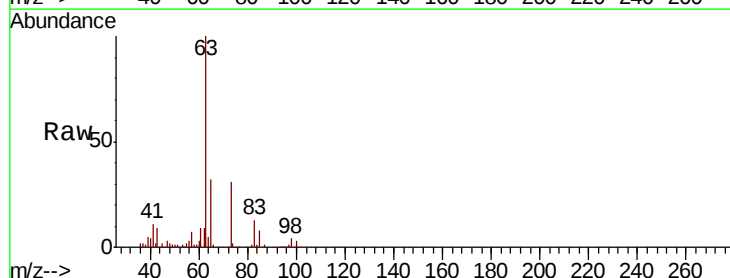
Tgt Ion: 63 Resp: 1516238

Ion Ratio Lower Upper

63 100

98 4.1 2.1 6.2

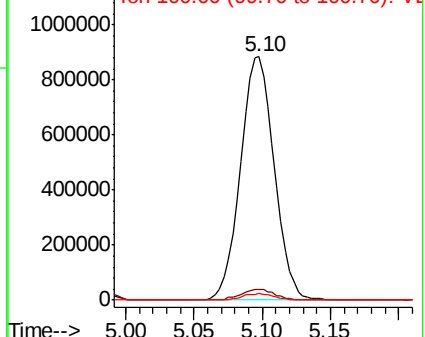
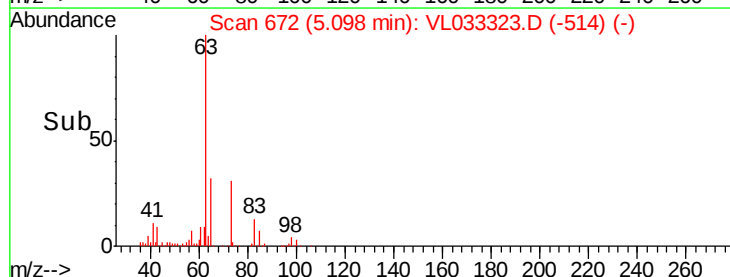
100 2.6 1.3 3.9

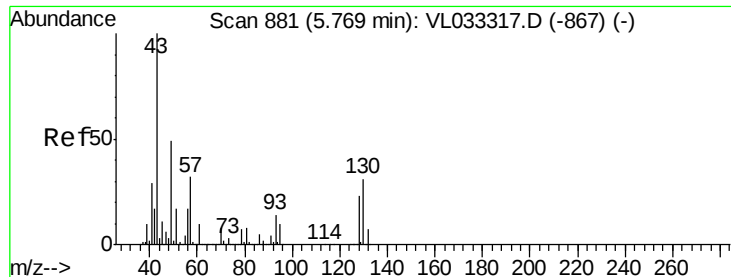


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



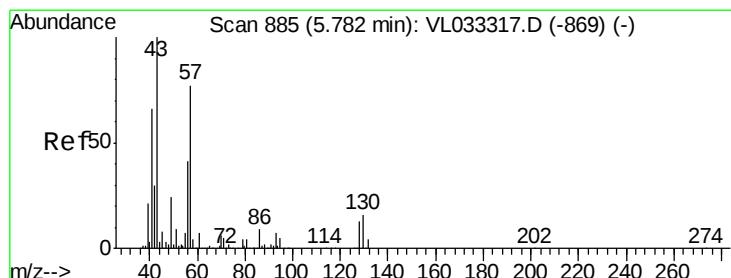
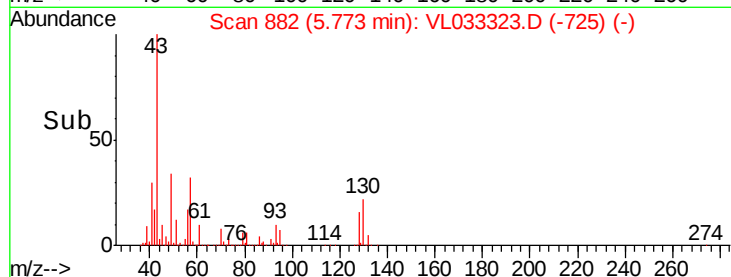
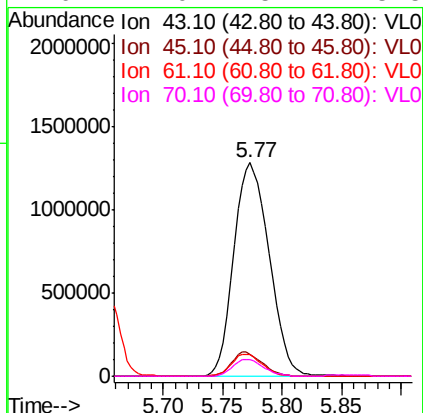
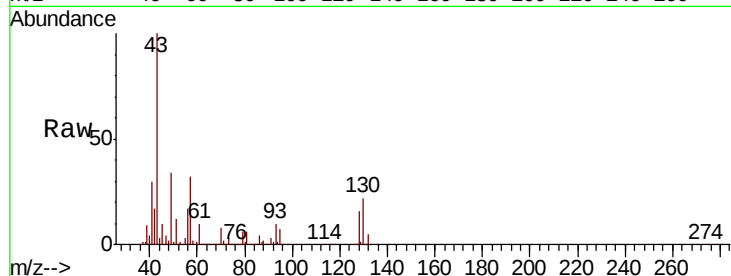


#25
Ethyl Acetate
Concen: 13.928 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 2643319

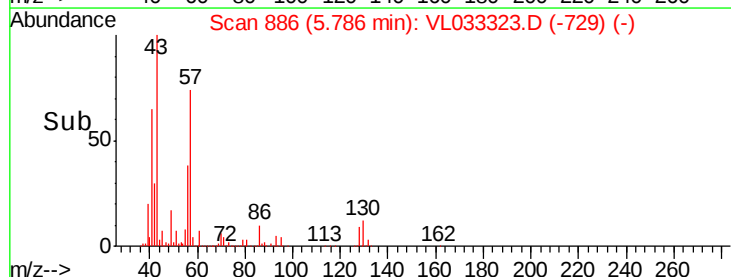
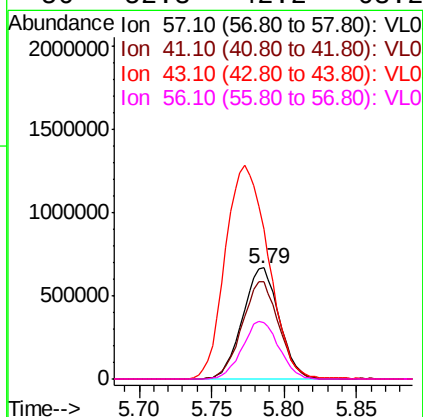
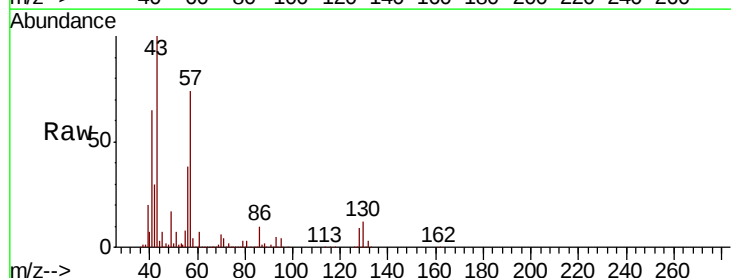
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.8	11.8
61	9.1	7.1	10.7
70	7.0	5.7	8.5

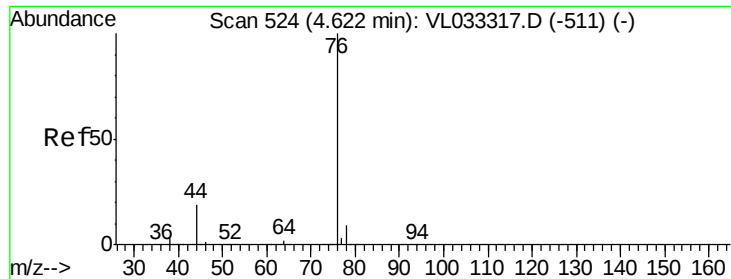


#26
Hexane
Concen: 13.360 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion: 57 Resp: 1169186

Ion	Ratio	Lower	Upper
57	100		
41	88.9	71.8	107.6
43	227.5	182.1	273.1
56	52.3	42.2	63.2

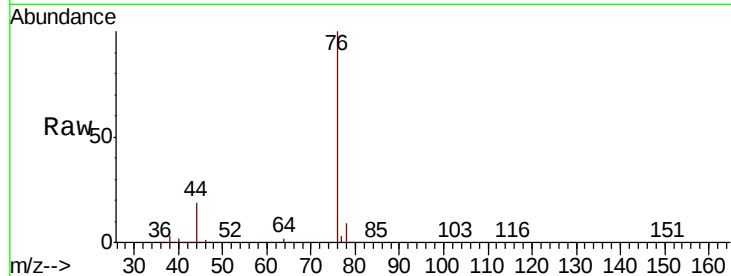




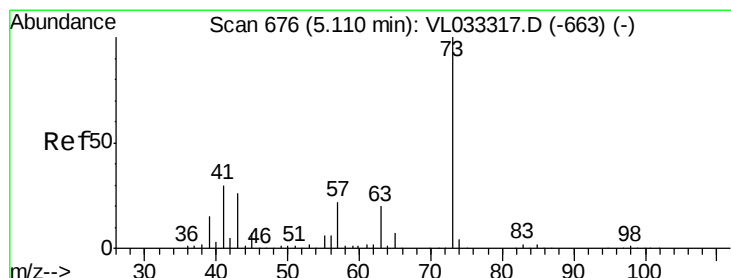
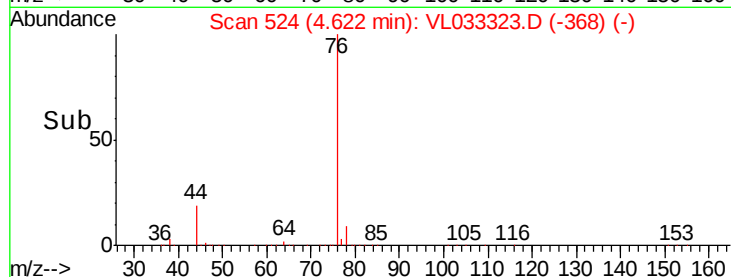
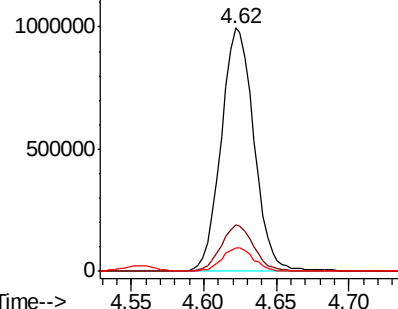
#27
Carbon Disulfide
Concen: 16.499 ppbv
RT: 4.62 min Scan# 524
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 76 Resp: 1562122
Ion Ratio Lower Upper
76 100
44 18.7 15.0 22.6
78 9.2 7.4 11.2

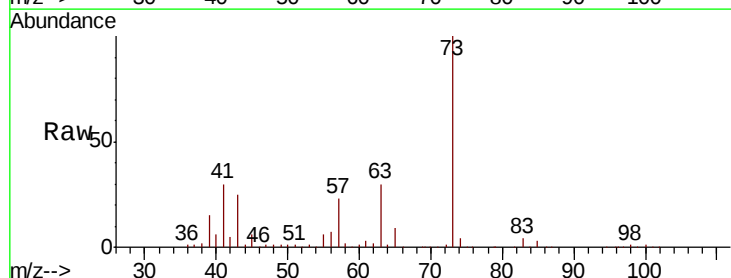


Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0

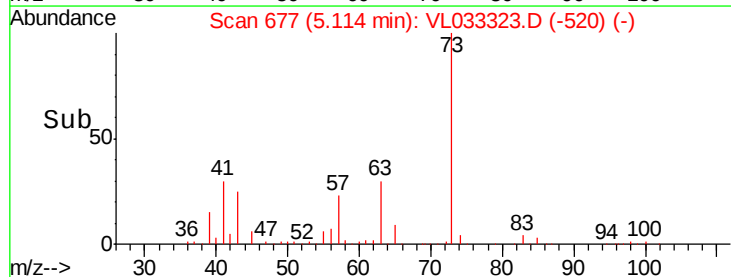
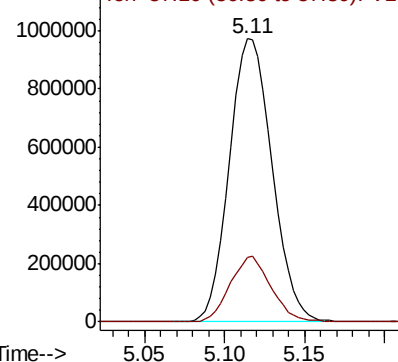


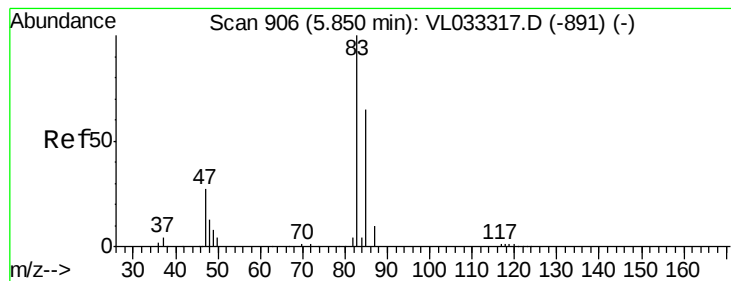
#28
Methyl tert-Butyl Ether
Concen: 14.271 ppbv
RT: 5.11 min Scan# 677
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion: 73 Resp: 1776504
Ion Ratio Lower Upper
73 100
57 22.3 17.8 26.6



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





#29

Chloroform

Concen: 14.042 ppbv

RT: 5.85 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

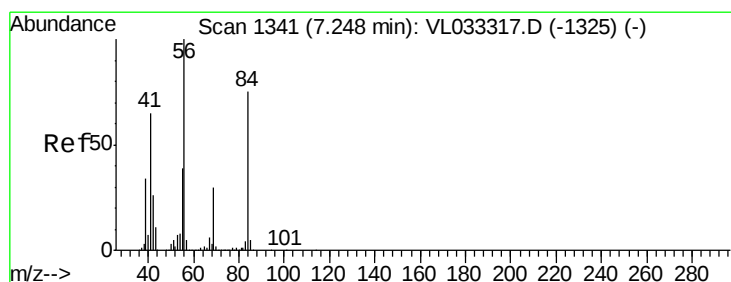
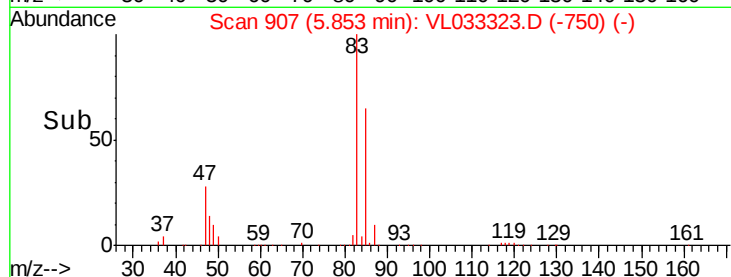
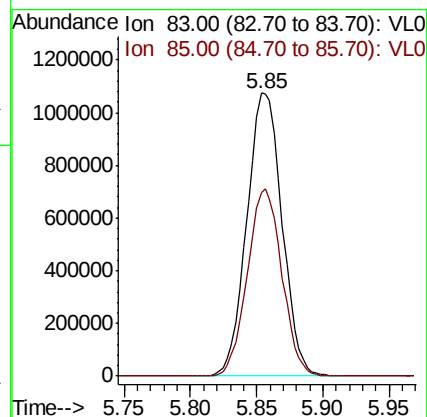
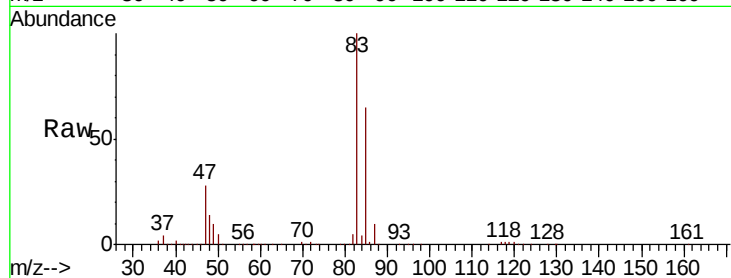
VSTDIC015

Tgt Ion: 83 Resp: 1984422

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.8



#30

Cyclohexane

Concen: 15.013 ppbv

RT: 7.25 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

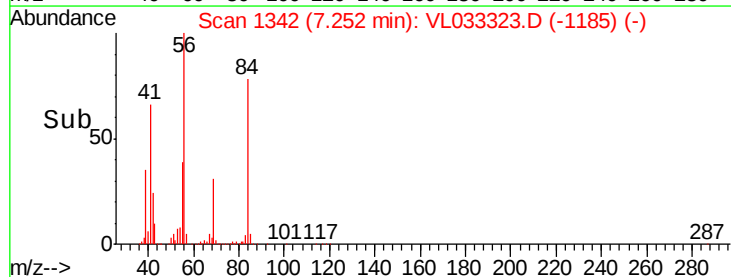
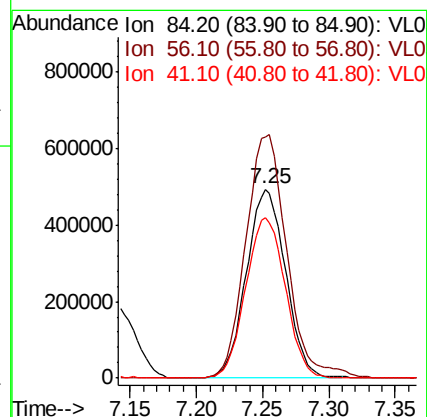
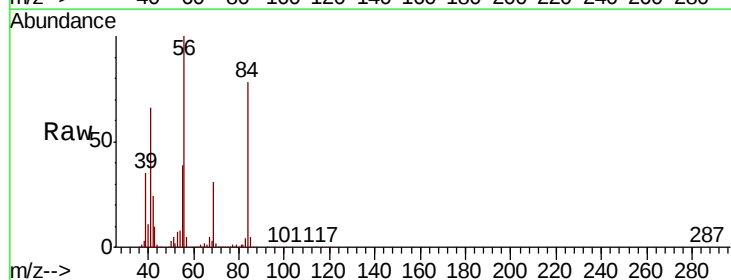
Tgt Ion: 84 Resp: 1017451

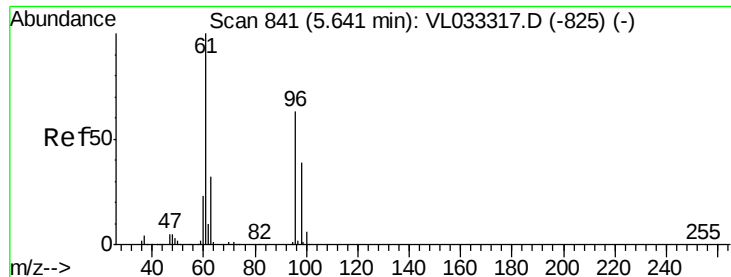
Ion Ratio Lower Upper

84 100

56 135.4 111.0 166.6

41 86.1 69.1 103.7



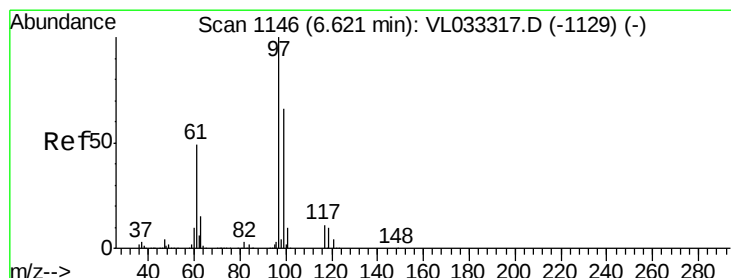
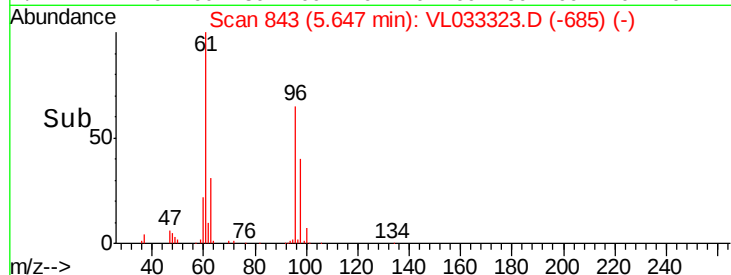
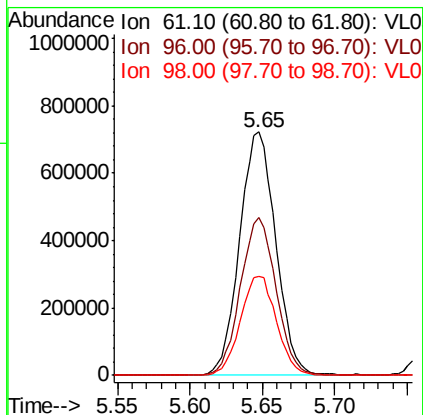
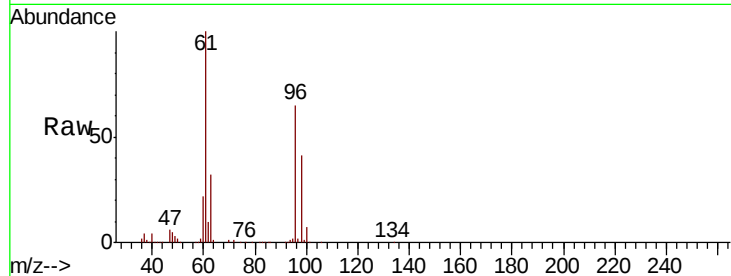


#31

cis-1,2-Dichloroethene
 Concen: 14.716 ppbv
 RT: 5.65 min Scan# 843
 Delta R.T. 0.01 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

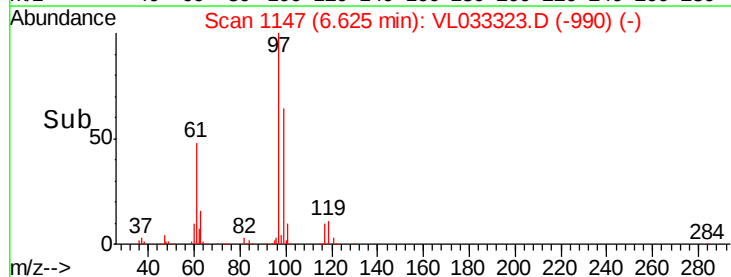
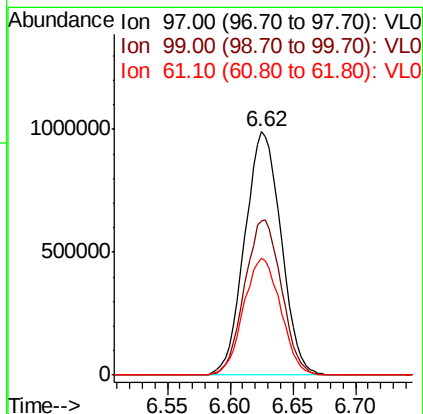
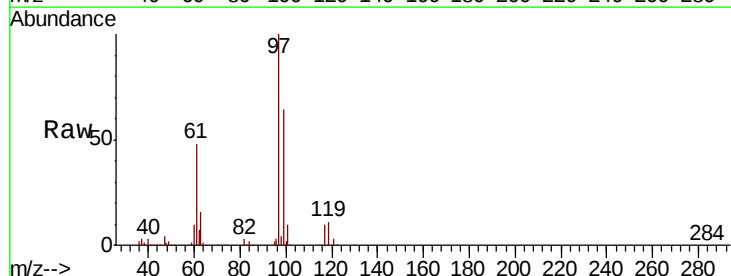
Tgt Ion: 61 Resp: 1253217
 Ion Ratio Lower Upper
 61 100
 96 64.6 50.5 75.7
 98 40.5 31.1 46.7

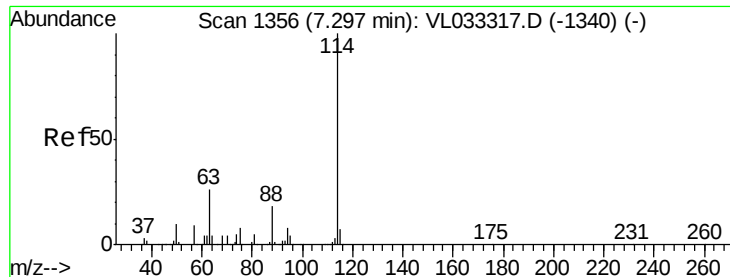


#32

1,1,1-Trichloroethane
 Concen: 14.366 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 97 Resp: 2001548
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.8 77.8
 61 49.2 39.6 59.4

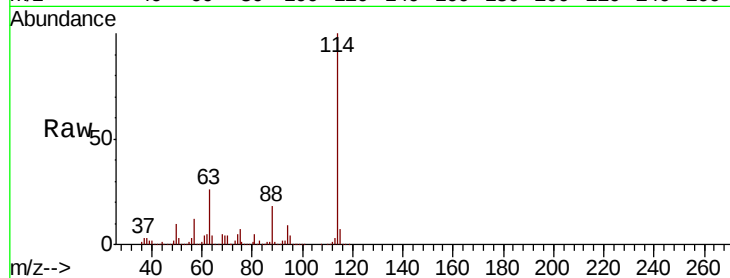




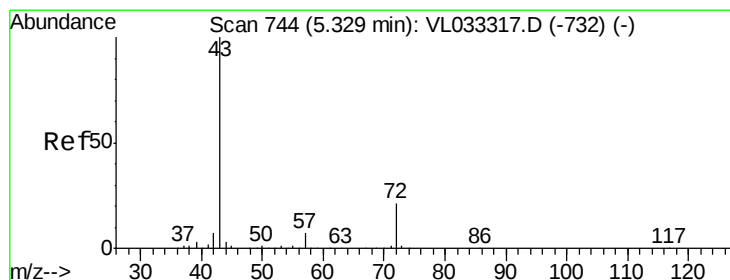
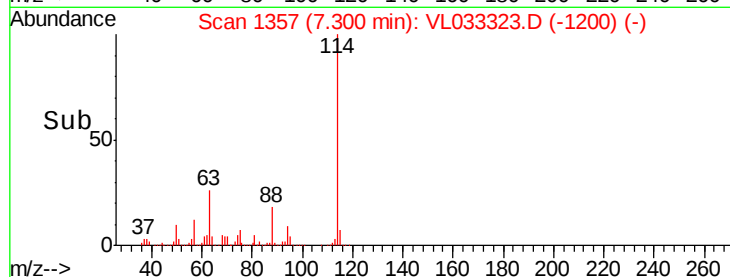
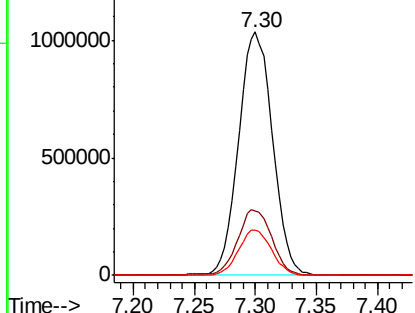
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:114 Resp: 1988493
 Ion Ratio Lower Upper
 114 100
 63 27.4 21.5 32.3
 88 18.2 14.6 22.0

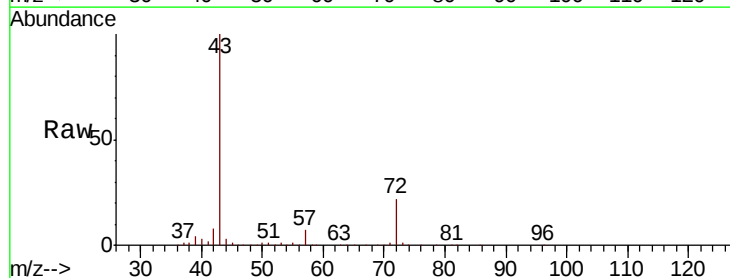


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

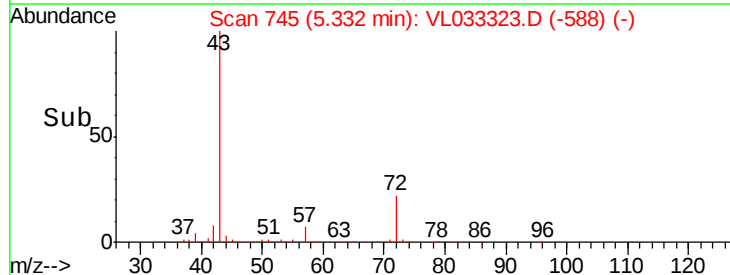
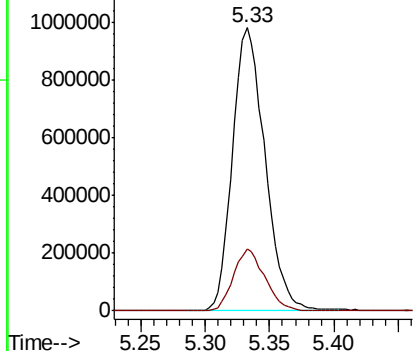


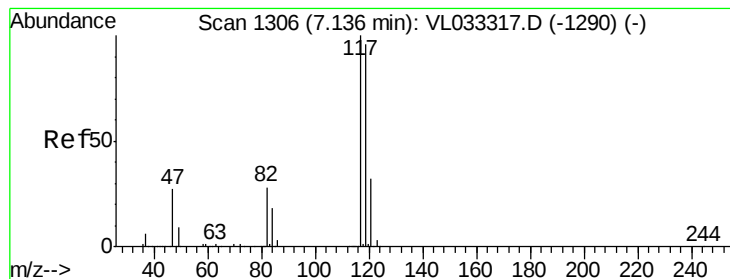
#34
 2-Butanone
 Concen: 13.272 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 43 Resp: 1713422
 Ion Ratio Lower Upper
 43 100
 72 21.4 17.1 25.7



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





#35

Carbon Tetrachloride

Concen: 14.731 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

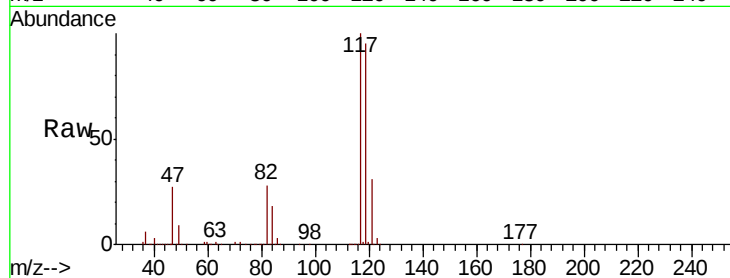
Tgt Ion:117 Resp: 2119590

Ion Ratio Lower Upper

117 100

119 95.3 76.8 115.2

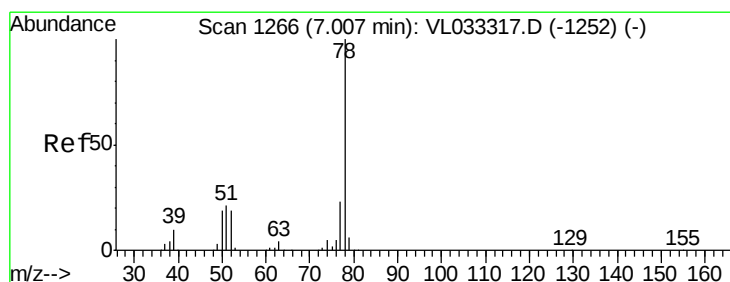
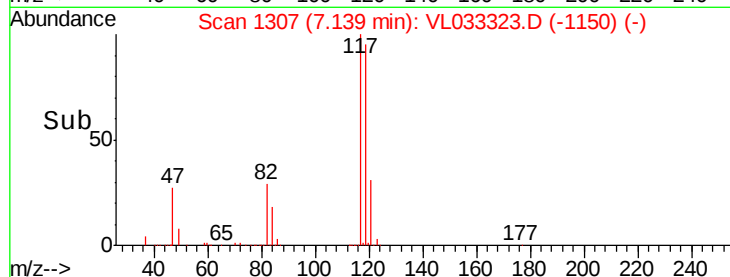
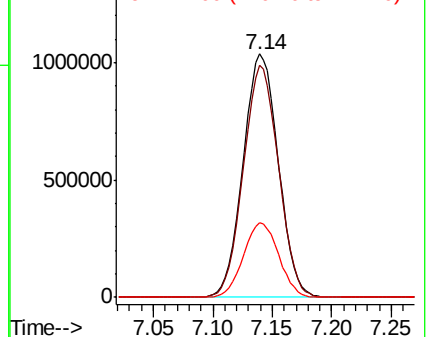
121 30.8 25.2 37.8



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: 13.992 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

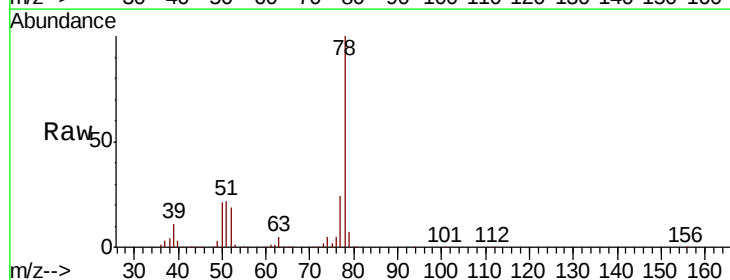
Tgt Ion: 78 Resp: 2520775

Ion Ratio Lower Upper

78 100

77 24.0 18.0 27.0

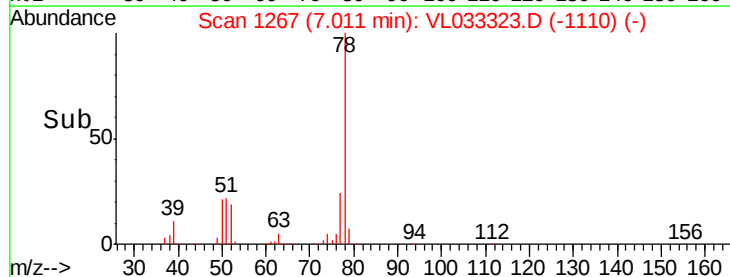
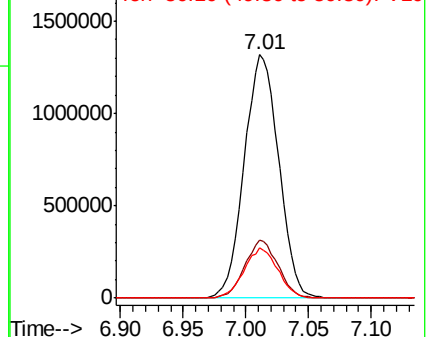
50 20.6 15.0 22.4

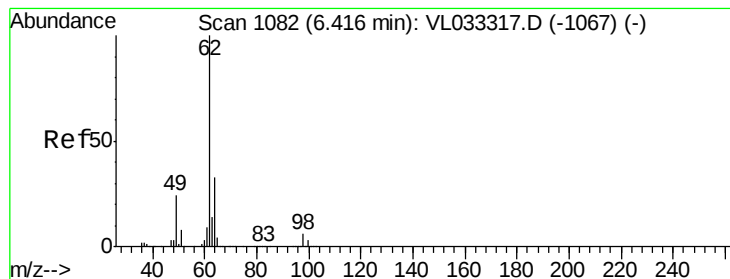


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 13.967 ppbv

RT: 6.42 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

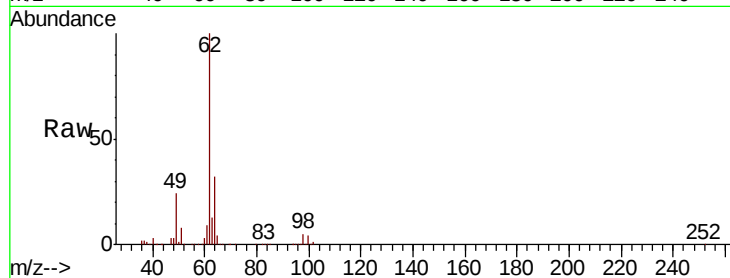
VSTDIC015

Tgt Ion: 62 Resp: 1569396

Ion Ratio Lower Upper

62 100

98 5.6 4.6 6.8



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

1000000

800000

600000

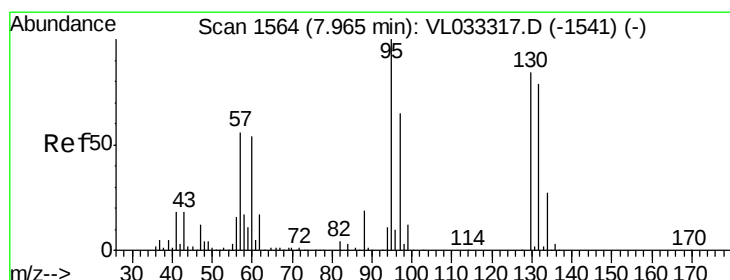
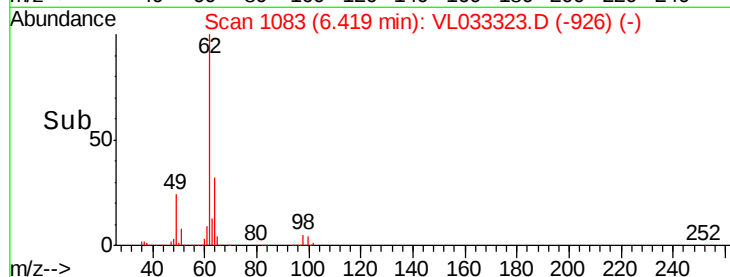
400000

200000

0

6.35 6.40 6.45 6.50

Time-->



#38

Trichloroethene

Concen: 13.636 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Tgt Ion: 130 Resp: 966465

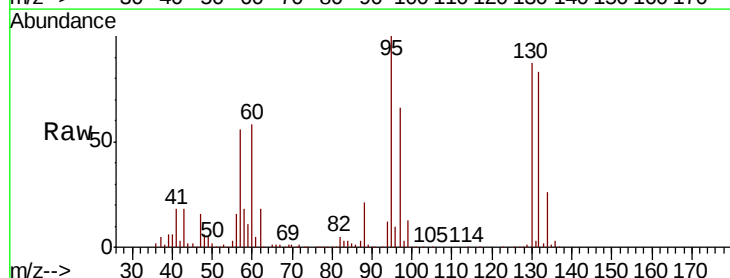
Ion Ratio Lower Upper

130 100

95 115.5 94.9 142.3

132 95.7 75.4 113.0

97 76.6 61.4 92.2



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

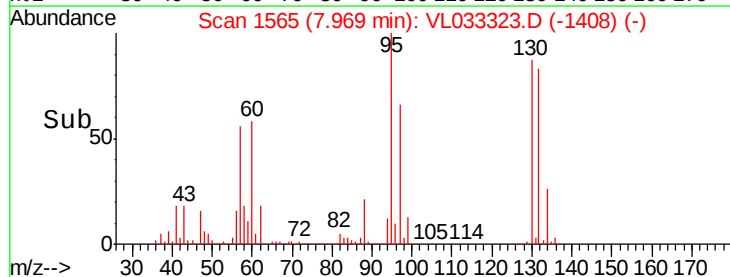
400000

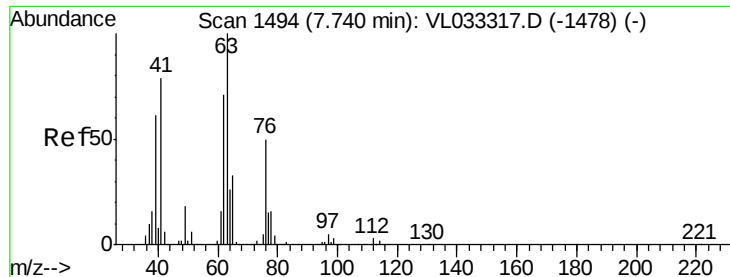
200000

0

7.85 7.90 7.95 8.00 8.05

Time-->





#39

1,2-Dichloropropane

Concen: 14.105 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

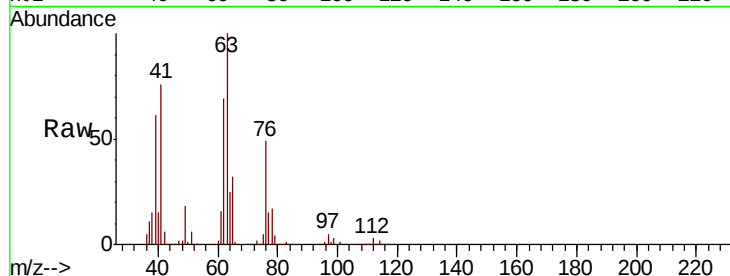
Tgt Ion: 63 Resp: 965499

Ion Ratio Lower Upper

63 100

41 76.2 63.5 95.3

62 69.1 56.5 84.7



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

600000

500000

400000

300000

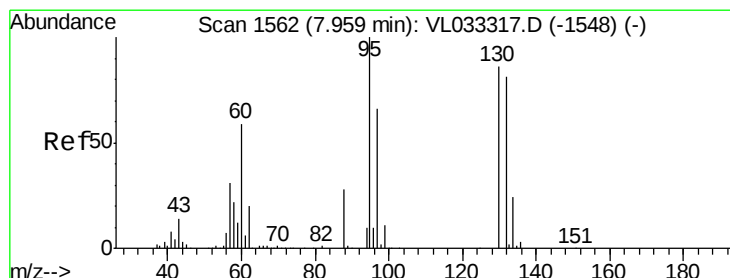
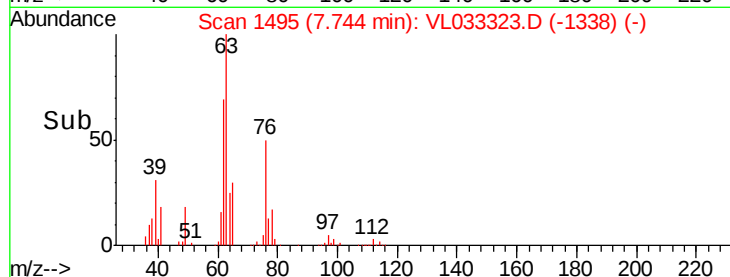
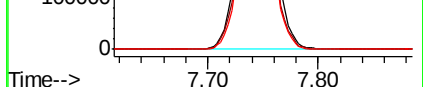
200000

100000

0

7.70

7.80



#40

1,4-Dioxane

Concen: 13.655 ppbv

RT: 7.96 min Scan# 1562

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Tgt Ion: 88 Resp: 344468

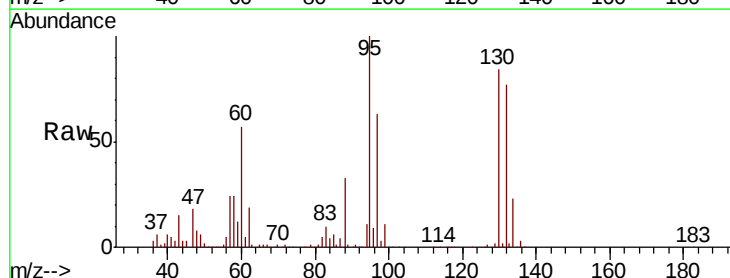
Ion Ratio Lower Upper

88 100

58 128.7 108.7 163.1

43 275.8 0.0 0.0#

57 1212.0 0.0 0.0#



Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

2500000

2000000

1500000

1000000

500000

0

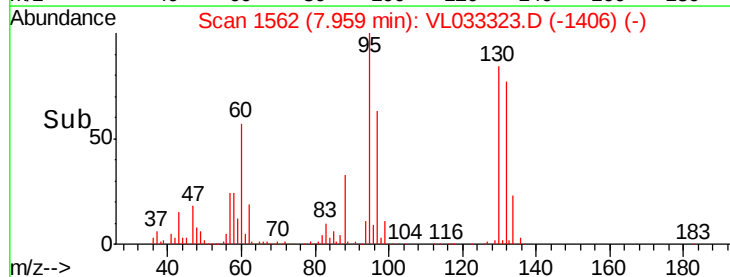
7.85

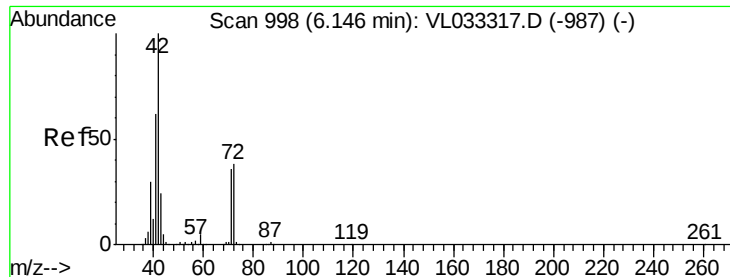
7.90

7.95

8.00

8.05





#41

Tetrahydrofuran

Concen: 14.513 ppbv

RT: 6.15 min Scan# 999

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

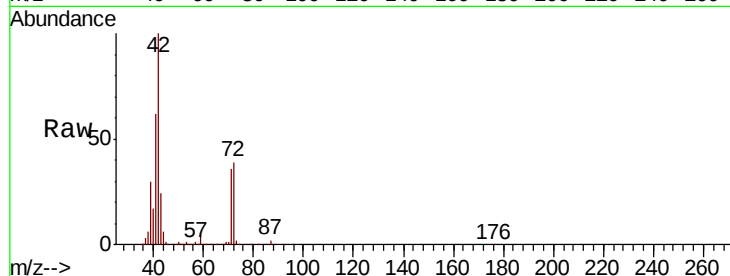
Tgt Ion: 42 Resp: 1021723

Ion Ratio Lower Upper

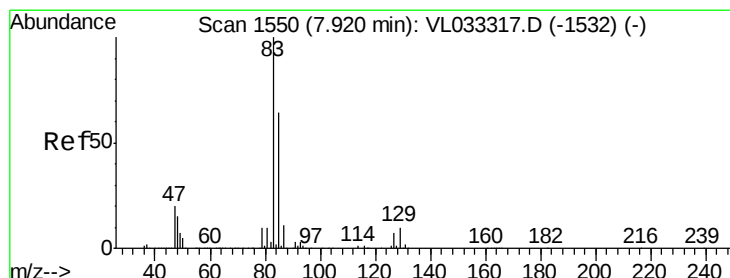
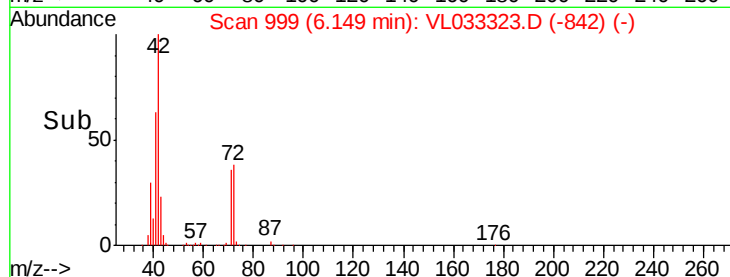
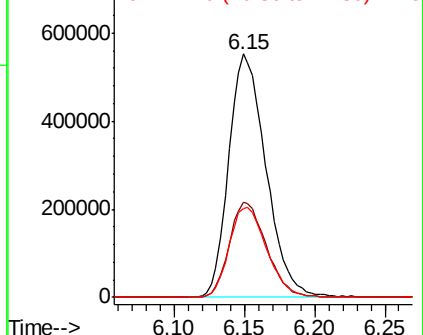
42 100

72 39.0 31.2 46.8

71 37.6 29.9 44.9



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 14.784 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

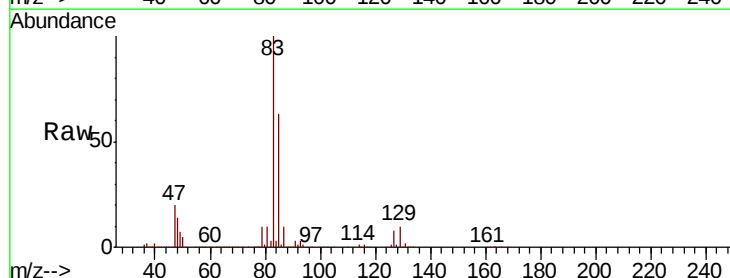
Tgt Ion: 83 Resp: 2239388

Ion Ratio Lower Upper

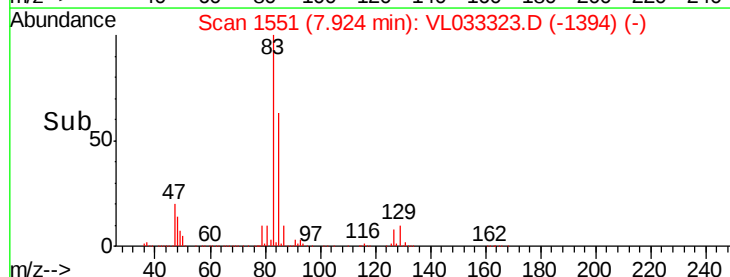
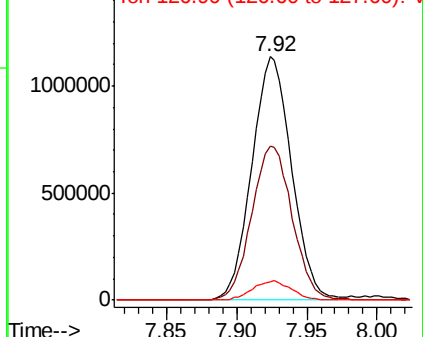
83 100

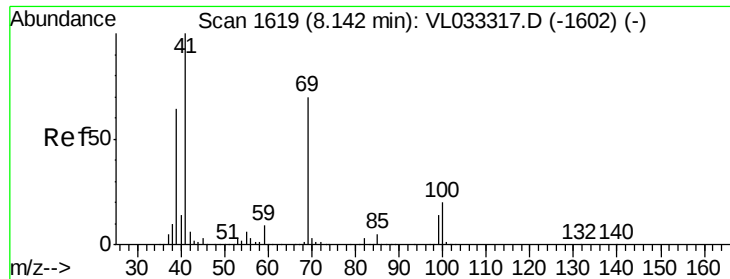
85 63.4 51.1 76.7

127 7.7 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





#43

Methyl Methacrylate

Concen: 15.280 ppbv

RT: 8.14 min Scan# 1619

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

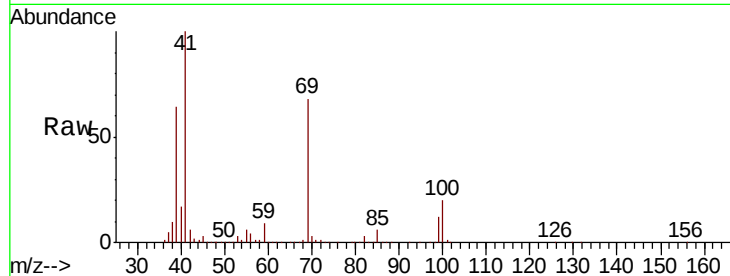
Tgt Ion: 69 Resp: 1054905

Ion Ratio Lower Upper

69 100

41 147.2 119.0 178.4

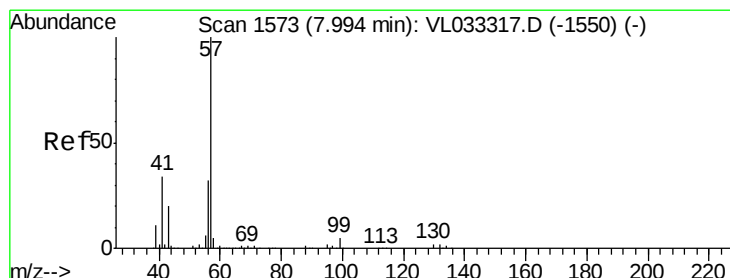
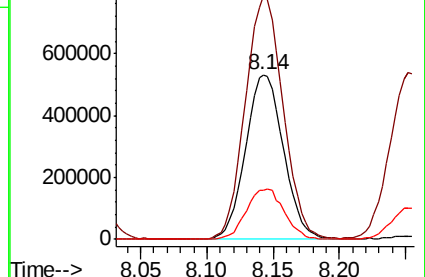
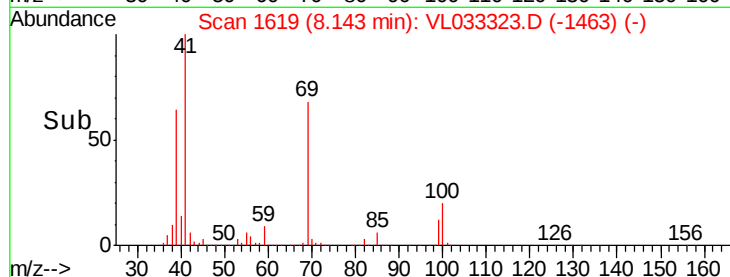
100 30.6 24.3 36.5



Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 13.766 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

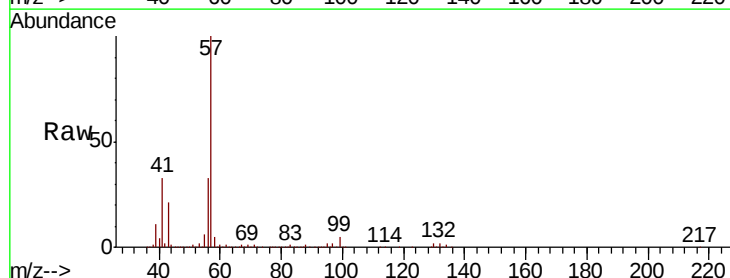
Tgt Ion: 57 Resp: 4172148

Ion Ratio Lower Upper

57 100

41 32.6 26.1 39.1

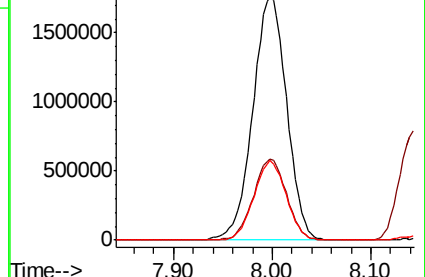
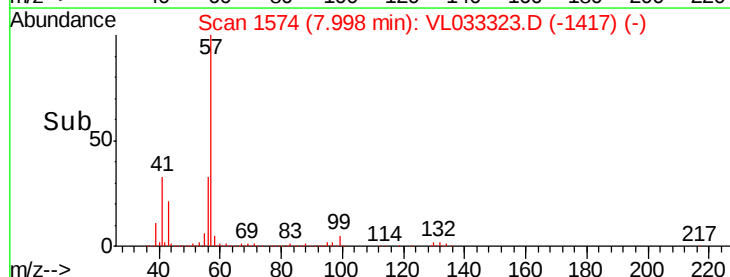
56 31.1 24.7 37.1

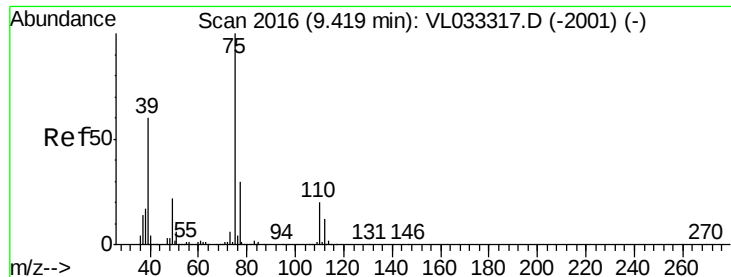


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#45

t-1,3-Dichloropropene

Concen: 18.031 ppbv

RT: 9.42 min Scan# 2017

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

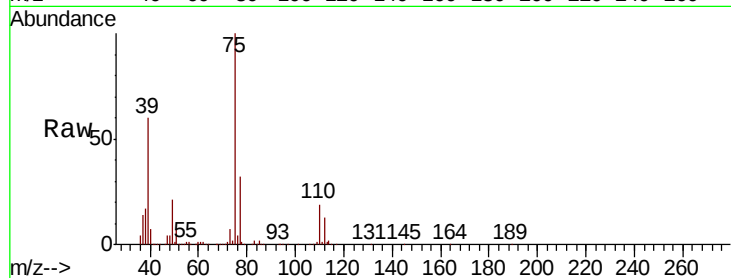
VSTDIC015

Tgt Ion: 75 Resp: 1471385

Ion Ratio Lower Upper

75 100

77 31.8 24.2 36.4



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

800000

600000

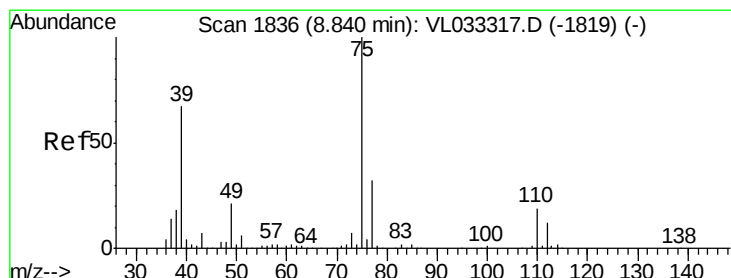
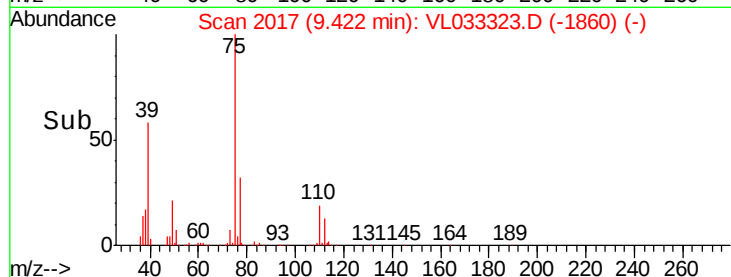
400000

200000

0

9.35 9.40 9.45 9.50

Time-->



#46

cis-1,3-Dichloropropene

Concen: 16.664 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

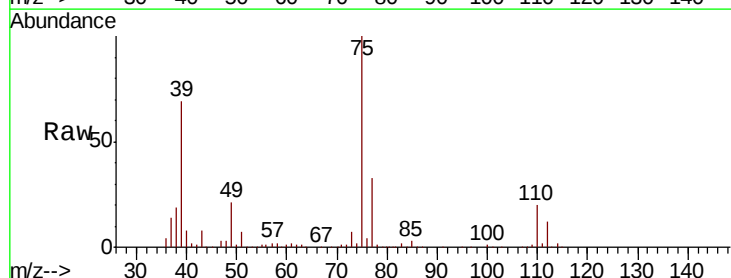
Tgt Ion: 75 Resp: 1625877

Ion Ratio Lower Upper

75 100

39 68.9 53.7 80.5

77 32.5 25.5 38.3



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

1000000

800000

600000

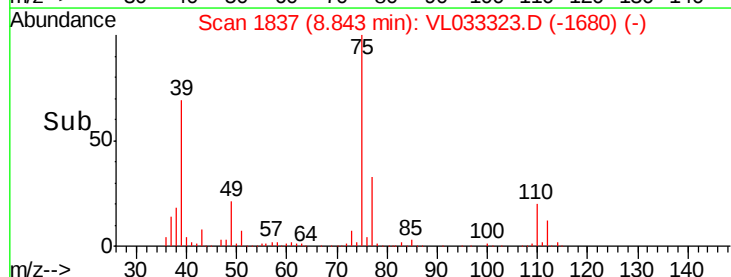
400000

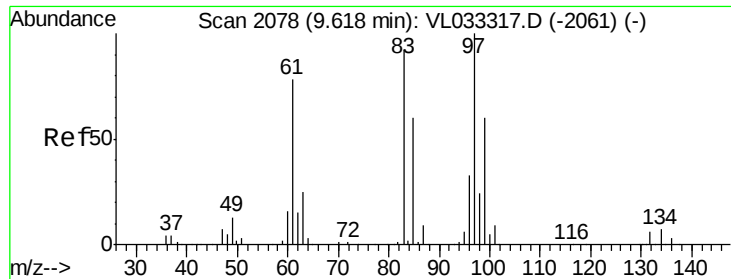
200000

0

8.75 8.80 8.85 8.90

Time-->

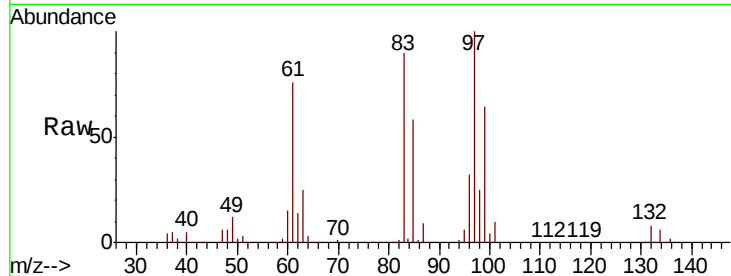




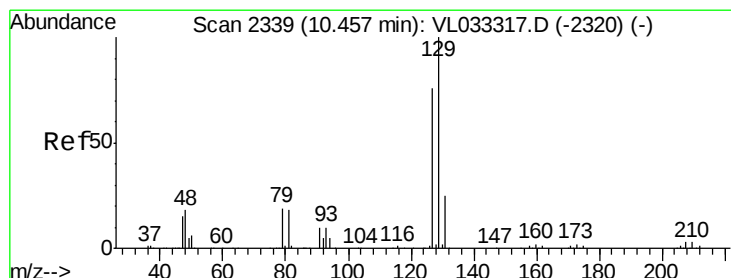
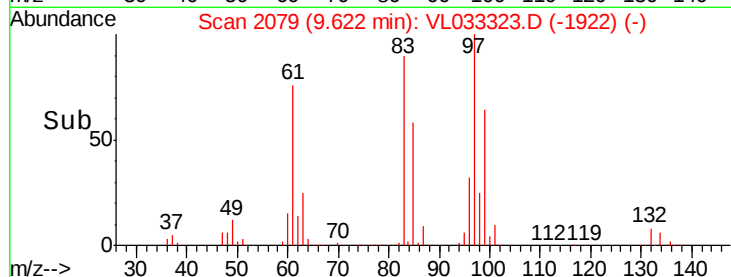
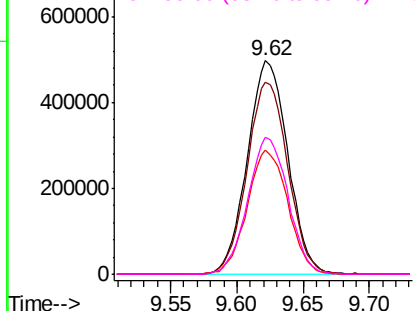
#47
 1,1,2-Trichloroethane
 Concen: 14.371 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 1054400
 Ion Ratio Lower Upper
 97 100
 83 89.6 73.6 110.4
 85 58.3 48.0 72.0
 99 64.3 48.1 72.1

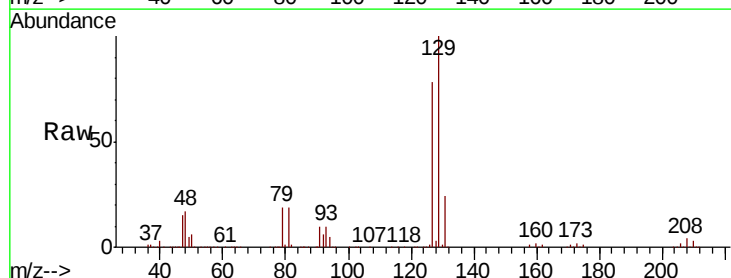


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

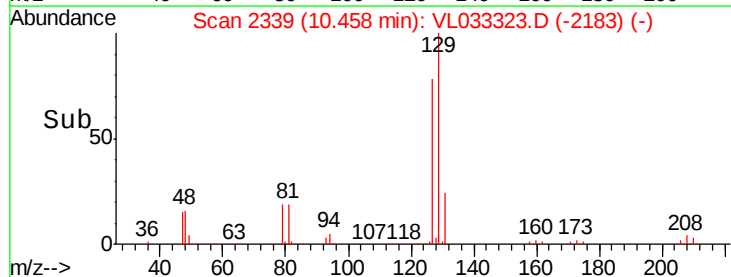
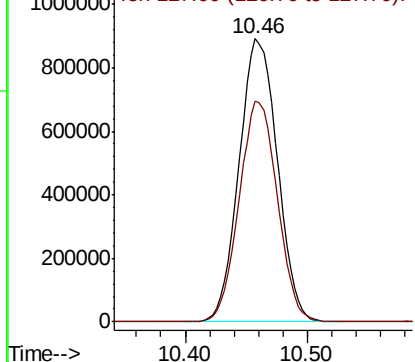


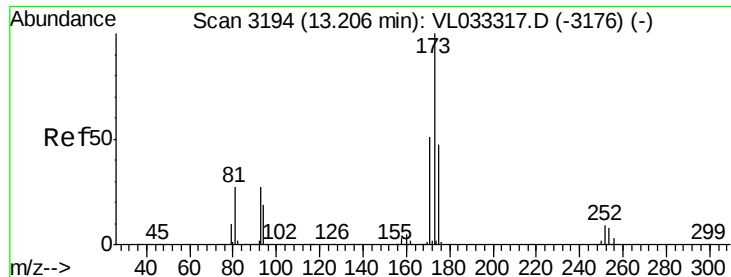
#48
 Dibromochloromethane
 Concen: 15.740 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 129 Resp: 1937781
 Ion Ratio Lower Upper
 129 100
 127 77.7 38.7 116.1



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





#49

Bromoform

Concen: 18.001 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

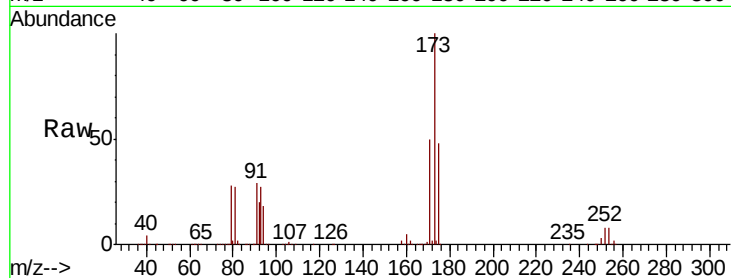
Tgt Ion:173 Resp: 1947811

Ion Ratio Lower Upper

173 100

175 48.7 38.6 58.0

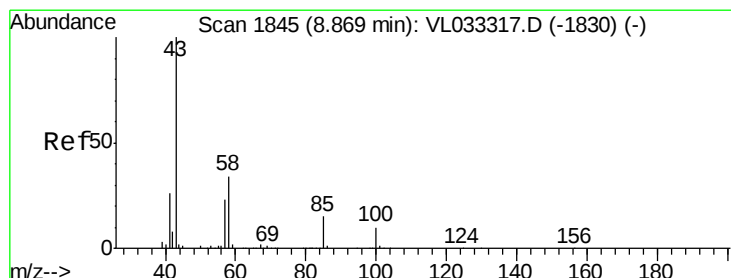
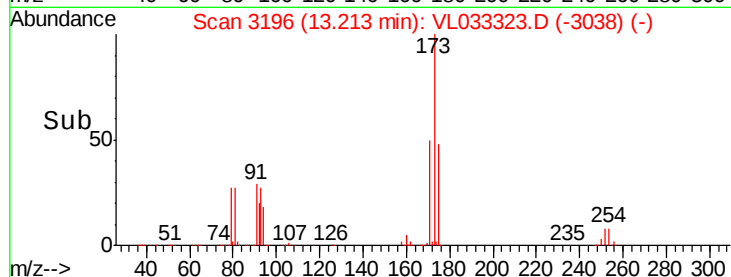
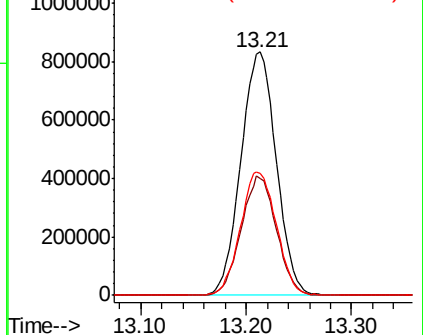
171 51.5 41.5 62.3



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: 14.072 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.01 min

Lab File: VL033323.D

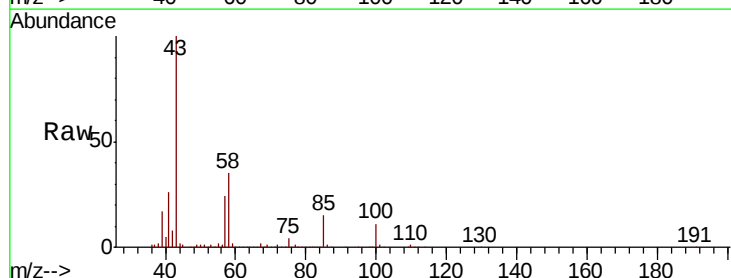
Acq: 15 Mar 2019 6:48

Tgt Ion: 43 Resp: 2628433

Ion Ratio Lower Upper

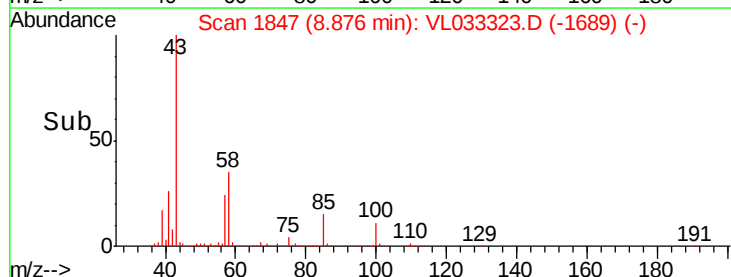
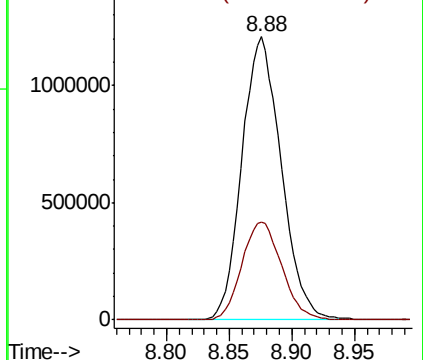
43 100

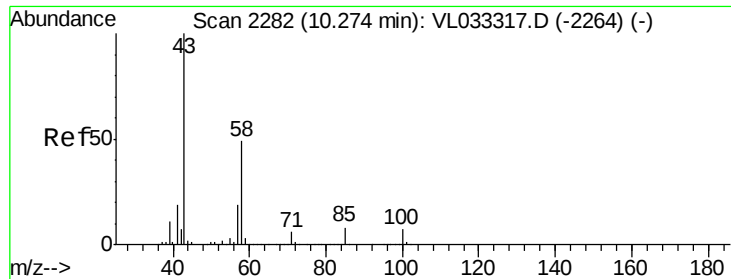
58 35.2 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

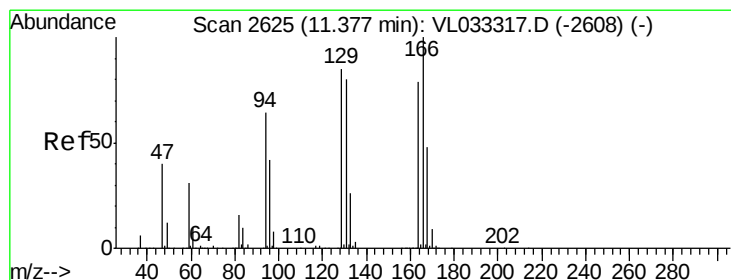
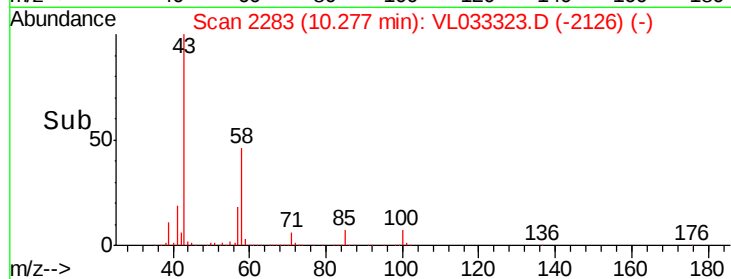
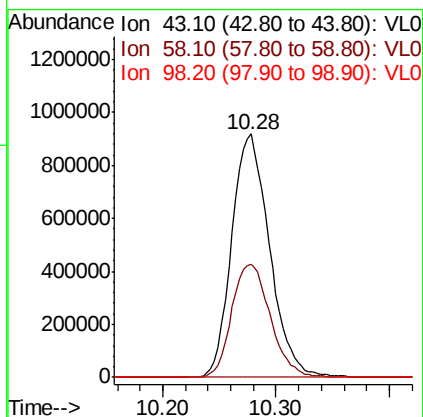
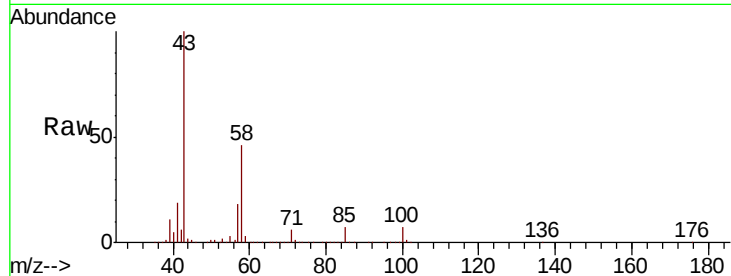




#51
2-Hexanone
Concen: 14.416 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

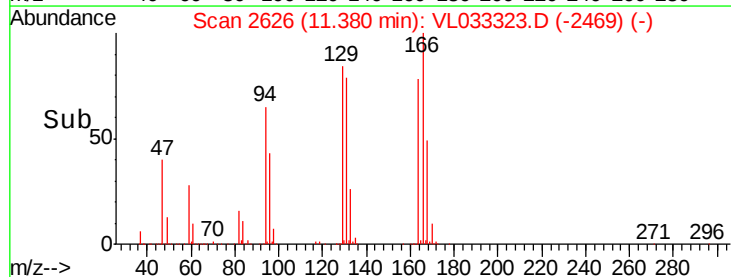
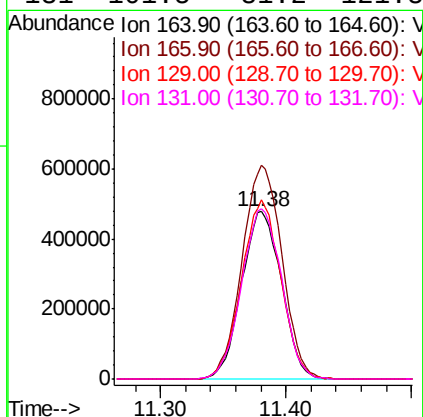
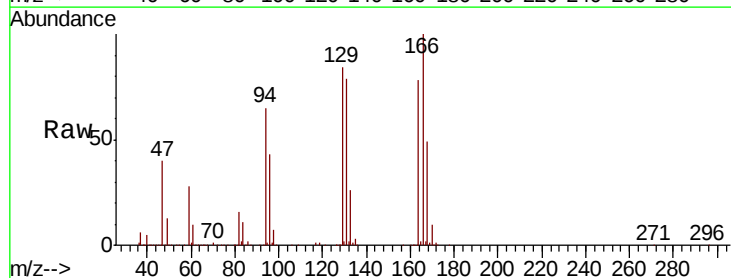
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

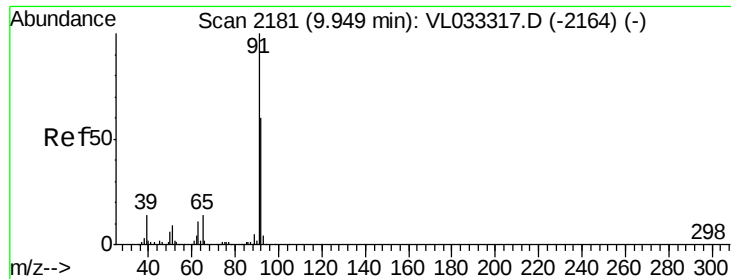
Tgt Ion: 43 Resp: 2134766
Ion Ratio Lower Upper
43 100
58 47.7 38.0 57.0
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 14.724 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion: 164 Resp: 1059927
Ion Ratio Lower Upper
164 100
166 127.7 100.9 151.3
129 107.2 86.0 129.0
131 101.5 81.2 121.8





#53

Toluene

Concen: 14.911 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

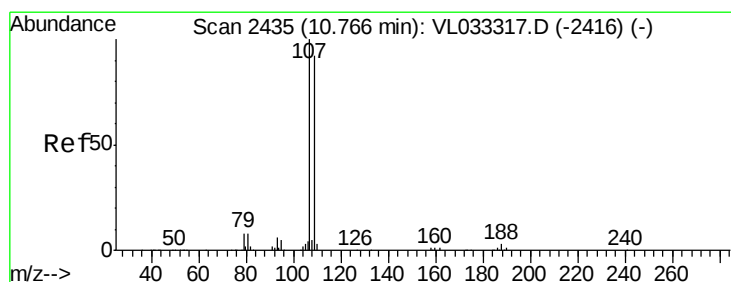
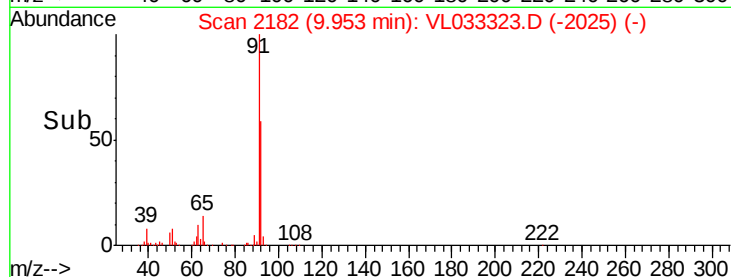
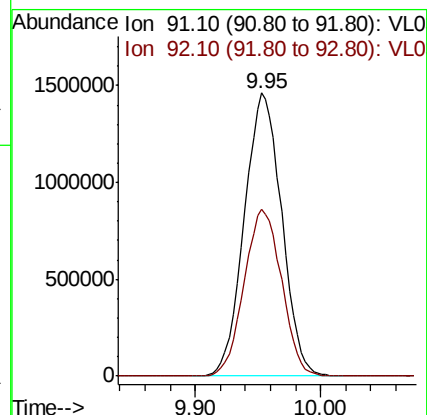
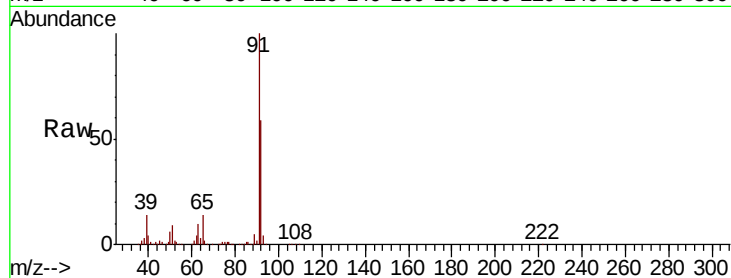
VSTDIC015

Tgt Ion: 91 Resp: 3026628

Ion Ratio Lower Upper

91 100

92 59.1 47.5 71.3



#54

1,2-Dibromoethane

Concen: 16.199 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL033323.D

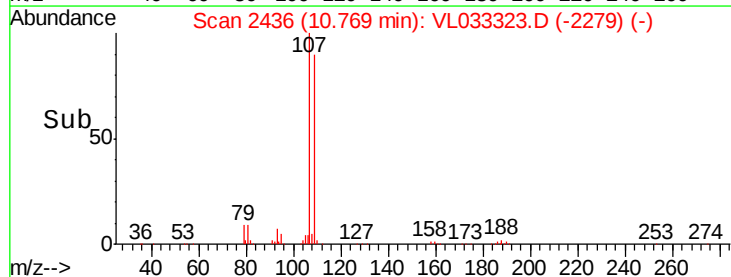
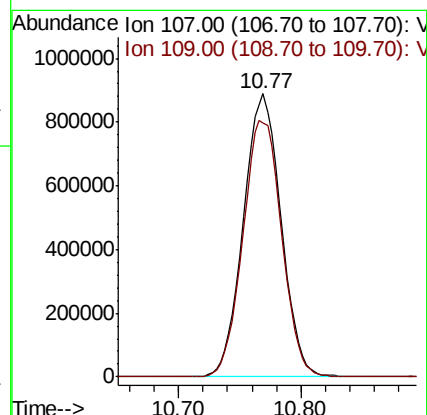
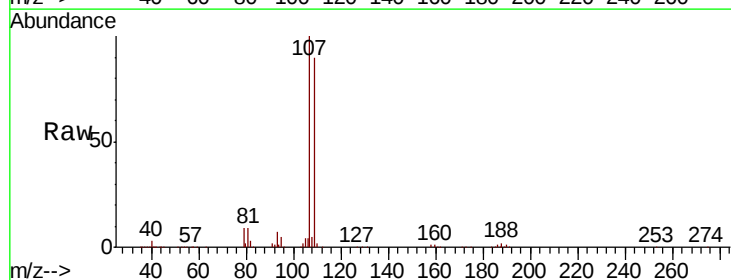
Acq: 15 Mar 2019 6:48

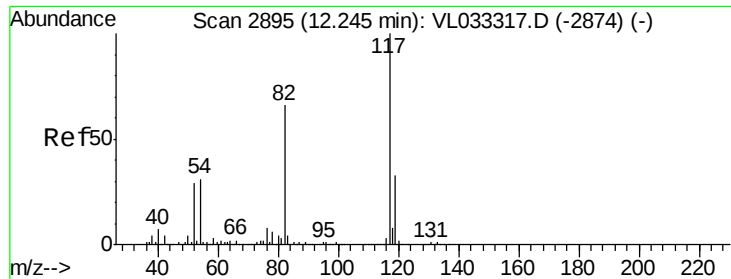
Tgt Ion: 107 Resp: 1890627

Ion Ratio Lower Upper

107 100

109 89.5 73.6 110.4

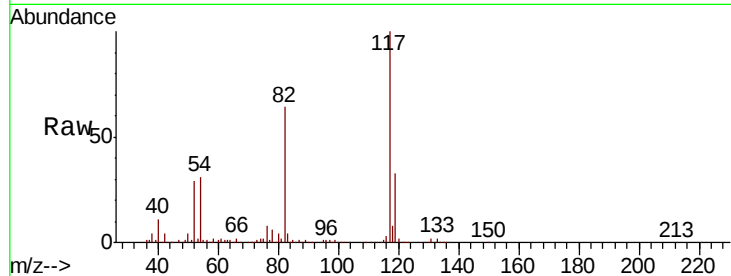




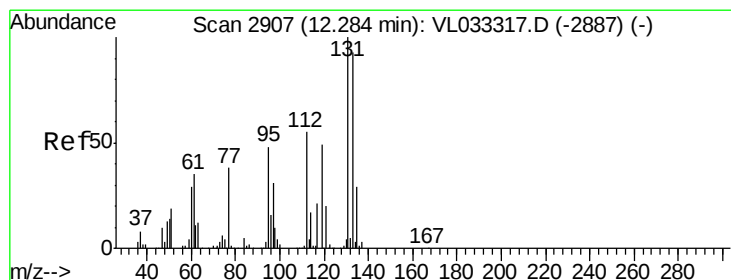
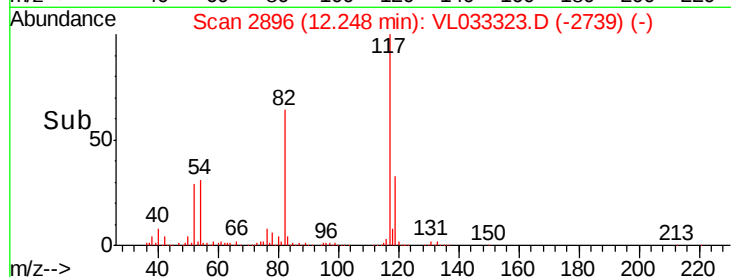
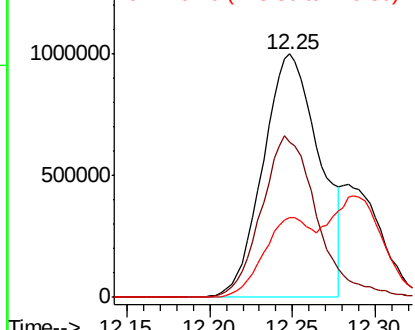
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 2376102
Ion Ratio Lower Upper
117 100
82 65.7 53.3 79.9
119 26.4 27.7 41.5#

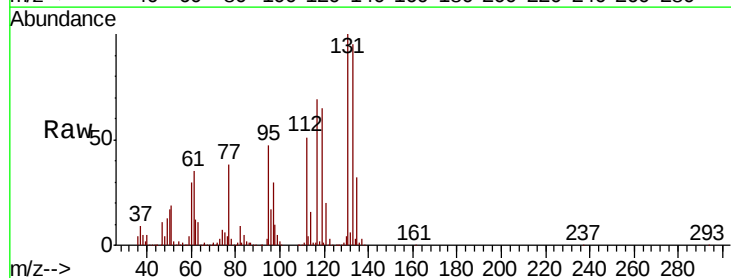


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

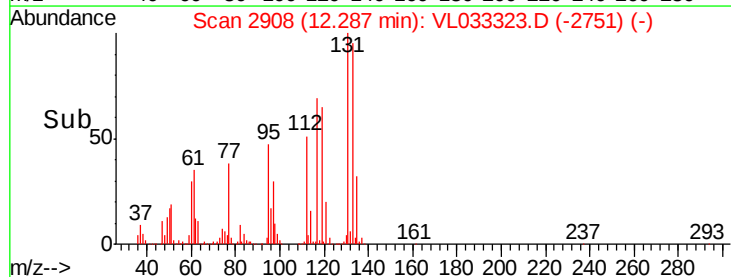
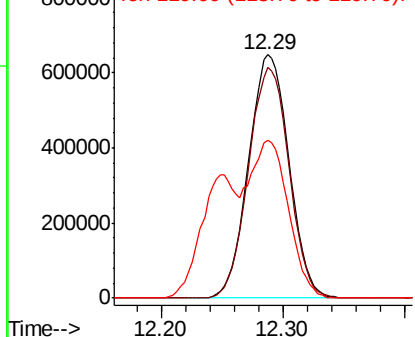


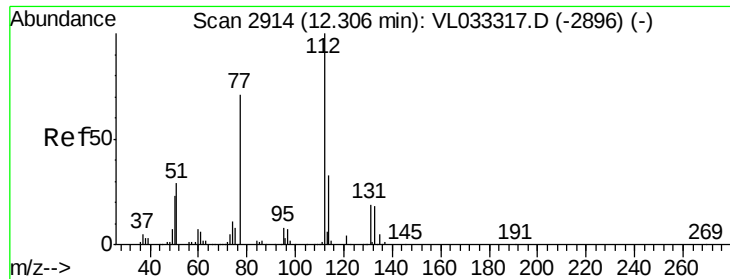
#56
1,1,1,2-Tetrachloroethane
Concen: 13.655 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion:131 Resp: 1482503
Ion Ratio Lower Upper
131 100
133 95.4 76.2 114.2
119 109.8 48.5 72.7#



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





#57

Chlorobenzene

Concen: 12.878 ppbv

RT: 12.31 min Scan# 2915

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

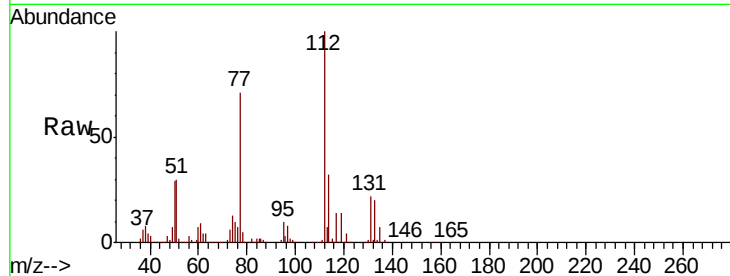
Tgt Ion: 112 Resp: 2501102

Ion Ratio Lower Upper

112 100

77 71.3 57.5 86.3

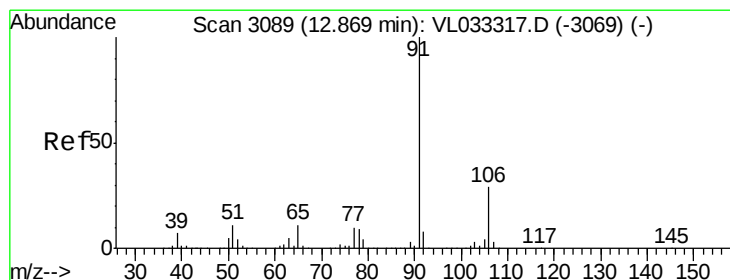
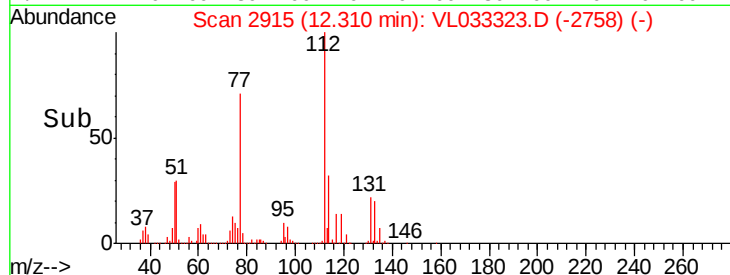
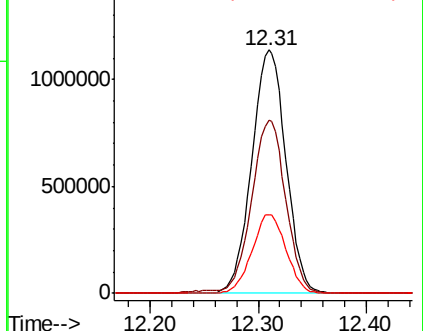
114 32.2 29.7 36.3



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: 13.959 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. 0.00 min

Lab File: VL033323.D

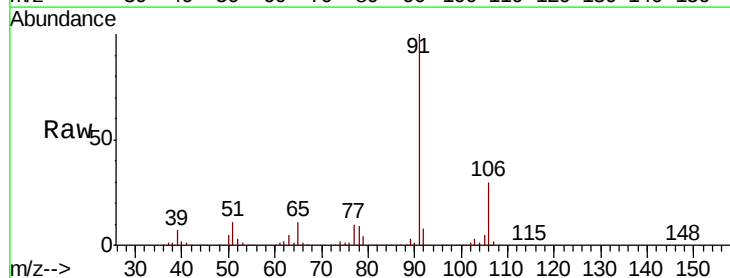
Acq: 15 Mar 2019 6:48

Tgt Ion: 91 Resp: 4758993

Ion Ratio Lower Upper

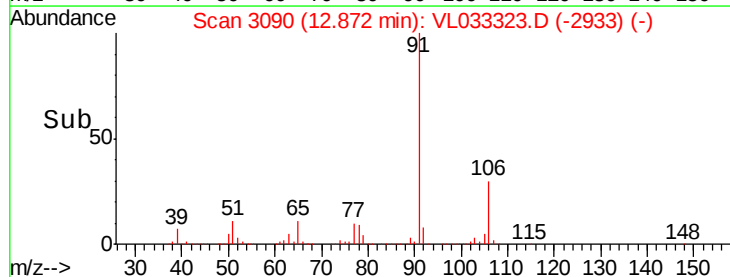
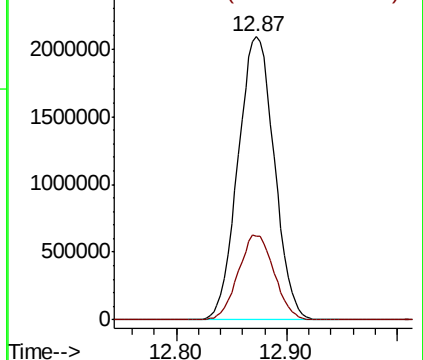
91 100

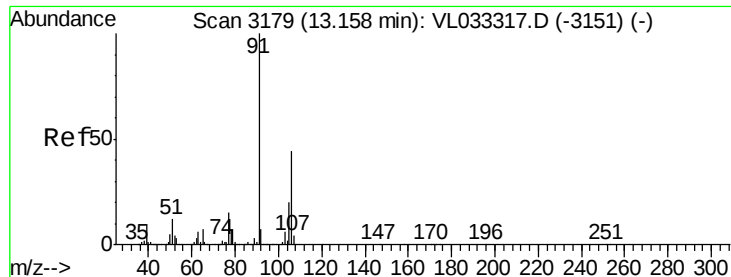
106 29.7 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

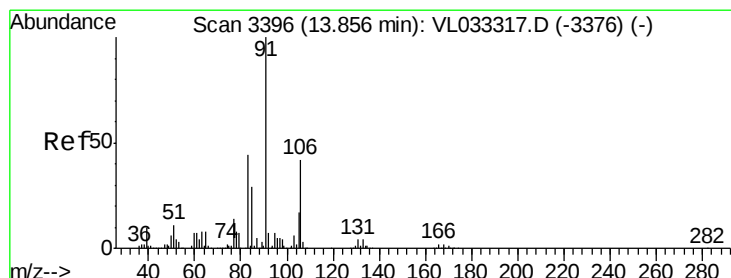
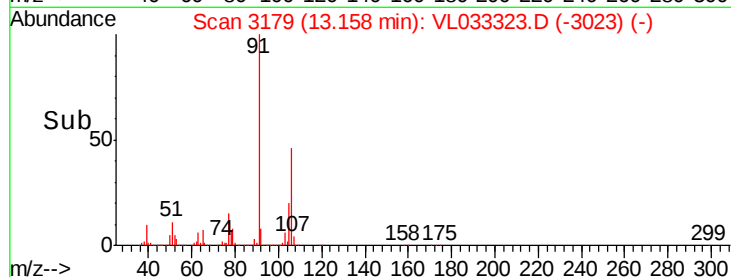
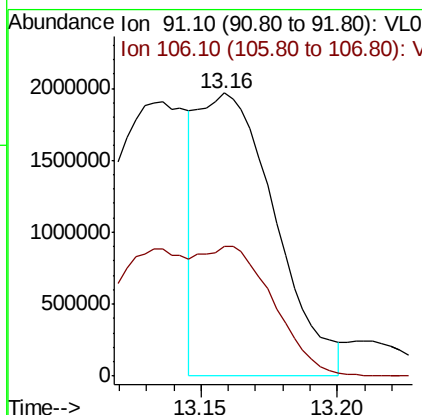
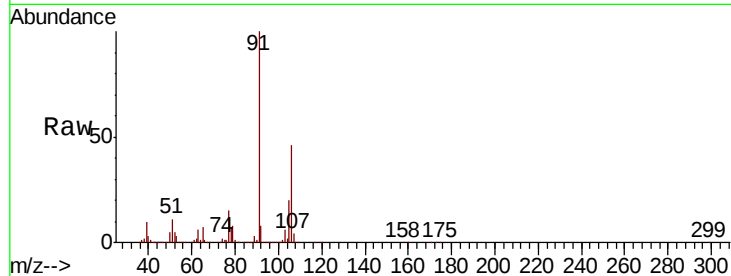




#59
m/p-Xylene
Concen: 13.197 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

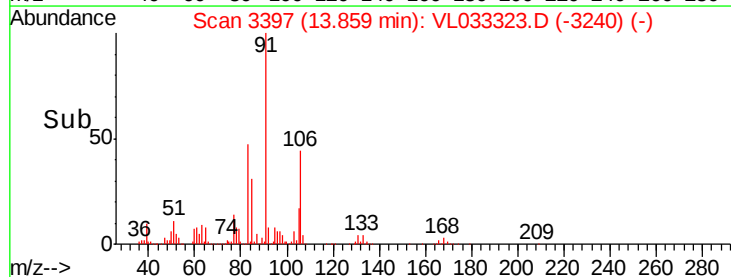
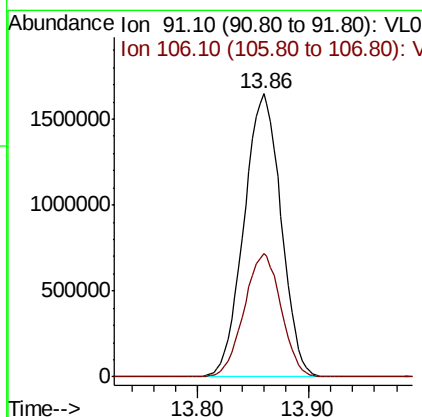
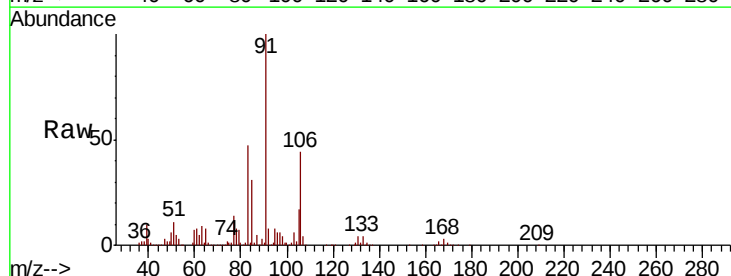
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

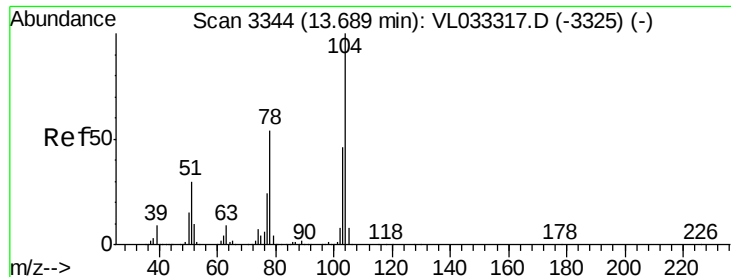
Tgt Ion: 91 Resp: 3856855
Ion Ratio Lower Upper
91 100
106 91.5 35.6 53.4#



#60
o-Xylene
Concen: 13.405 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion: 91 Resp: 3841769
Ion Ratio Lower Upper
91 100
106 43.2 21.5 64.5





#61

Styrene

Concen: 14.846 ppbv

RT: 13.70 min Scan# 3346

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

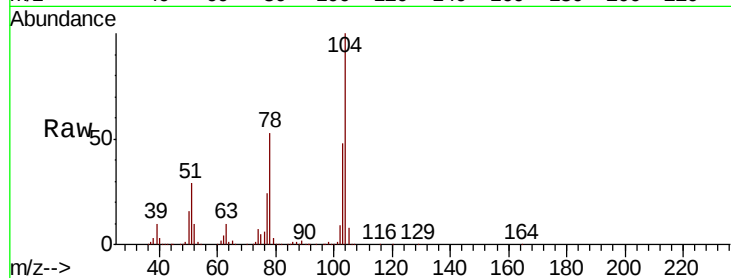
Tgt Ion:104 Resp: 2914762

Ion Ratio Lower Upper

104 100

78 54.4 43.4 65.0

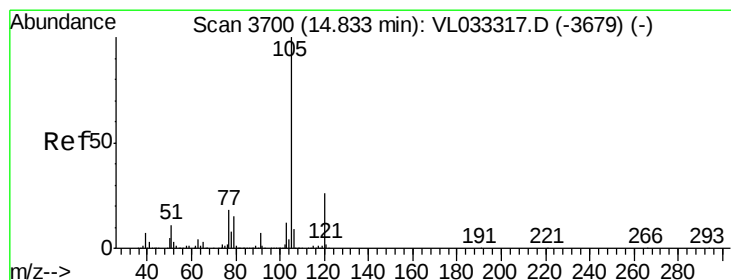
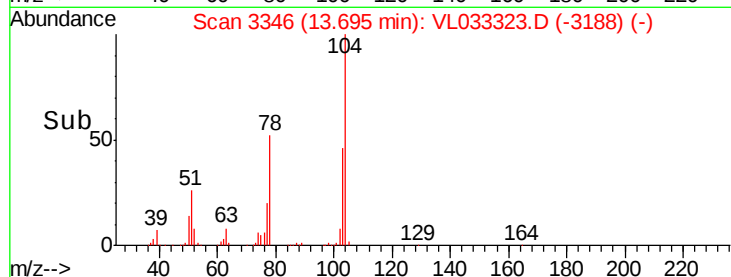
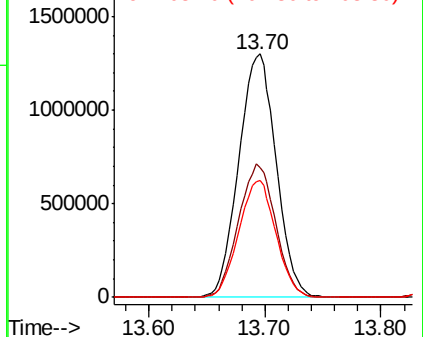
103 47.6 38.2 57.4



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



#62

Isopropylbenzene

Concen: 13.505 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. 0.00 min

Lab File: VL033323.D

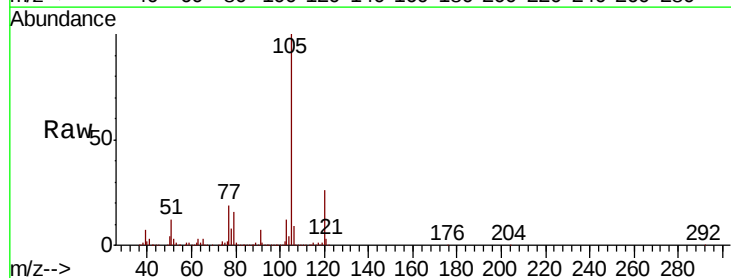
Acq: 15 Mar 2019 6:48

Tgt Ion:105 Resp: 5342107

Ion Ratio Lower Upper

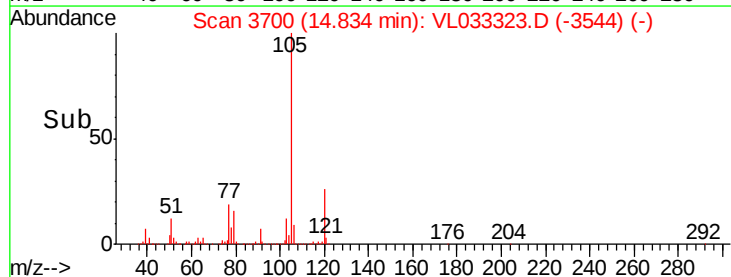
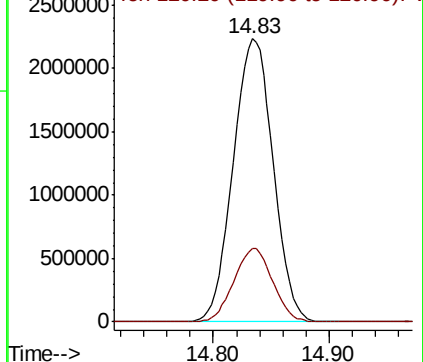
105 100

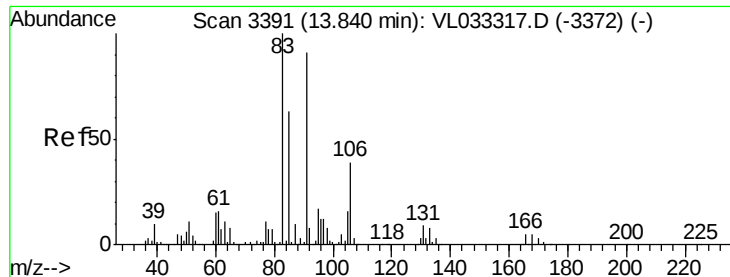
120 25.2 20.1 30.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

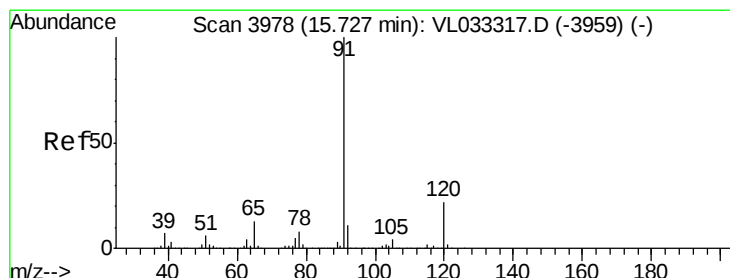
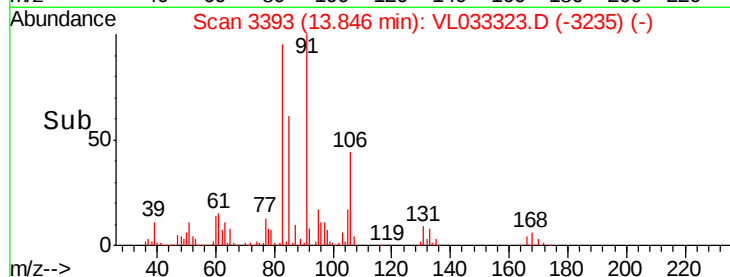
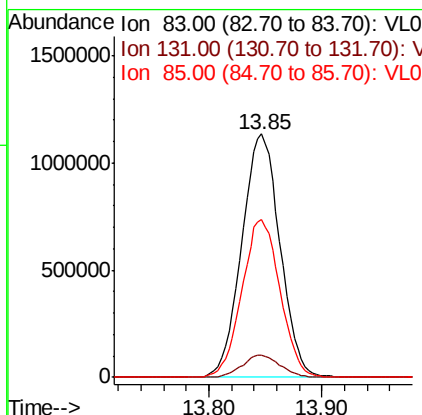
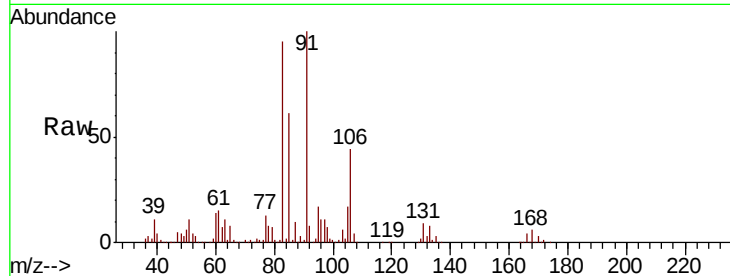




#63
 1,1,2,2-Tetrachloroethane
 Concen: 12.219 ppbv
 RT: 13.85 min Scan# 3393
 Delta R.T. 0.01 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

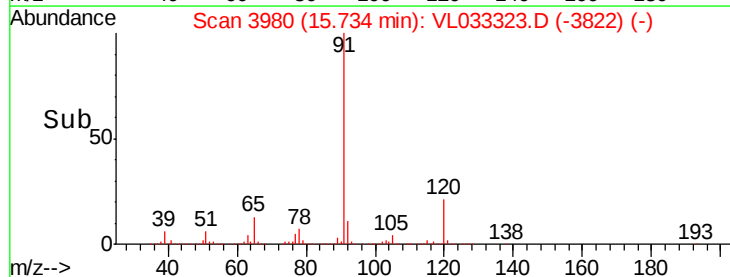
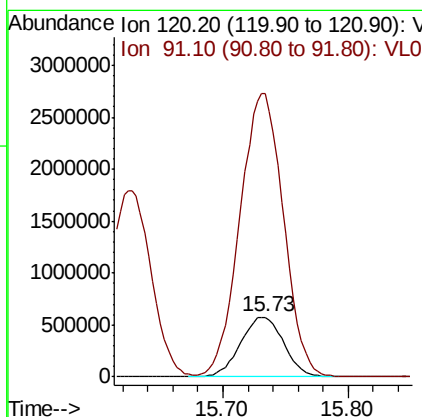
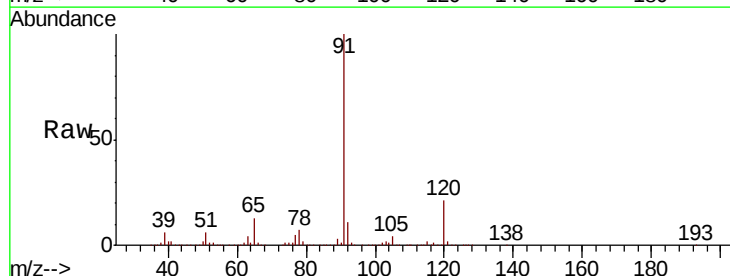
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

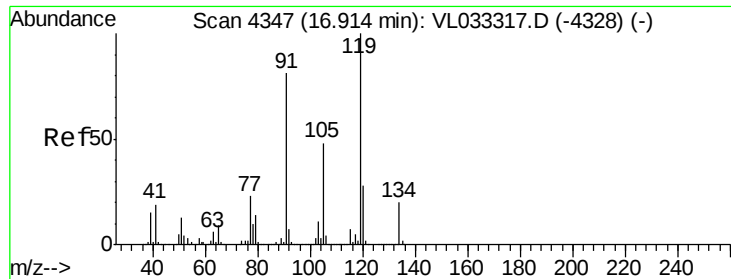
Tgt Ion: 83 Resp: 2662221
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.5
 85 64.7 32.5 97.5



#64
 n-propylbenzene
 Concen: 13.799 ppbv
 RT: 15.73 min Scan# 3980
 Delta R.T. 0.01 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 120 Resp: 1372279
 Ion Ratio Lower Upper
 120 100
 91 480.3 387.4 581.0

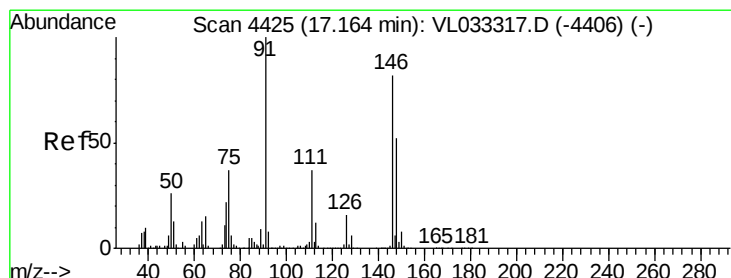
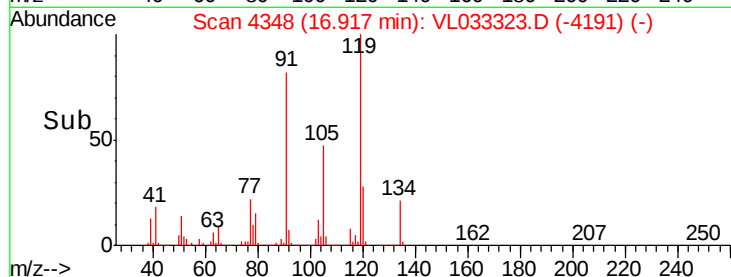
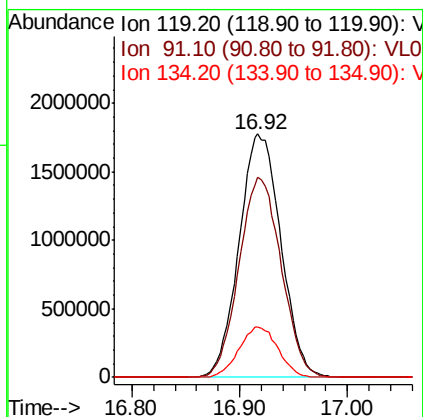
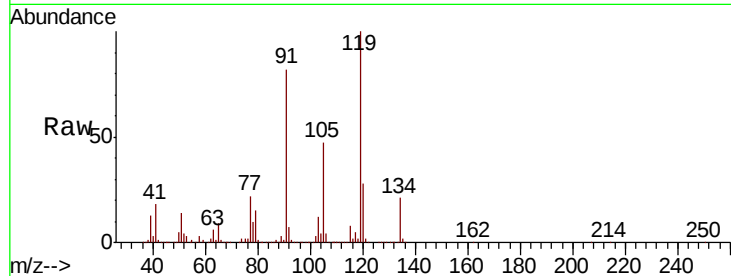




#65
 tert-Butylbenzene
 Concen: 13.047 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

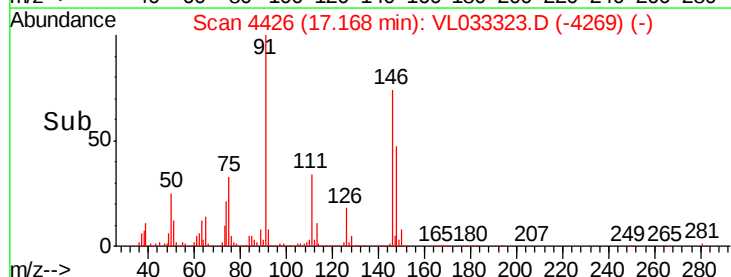
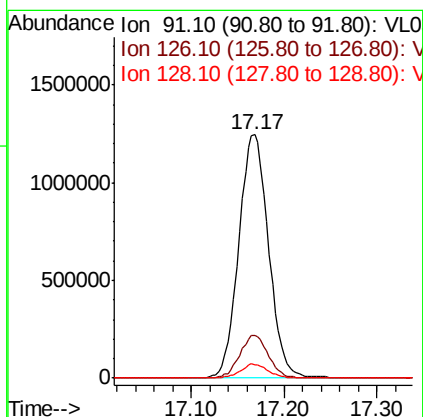
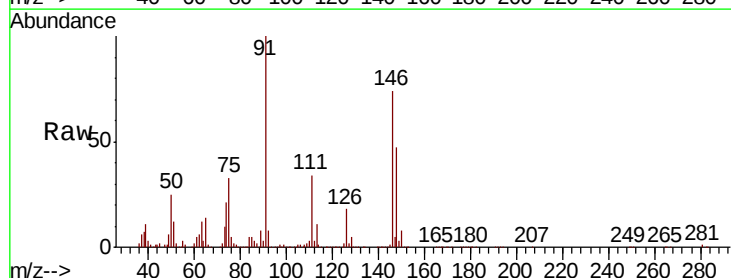
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

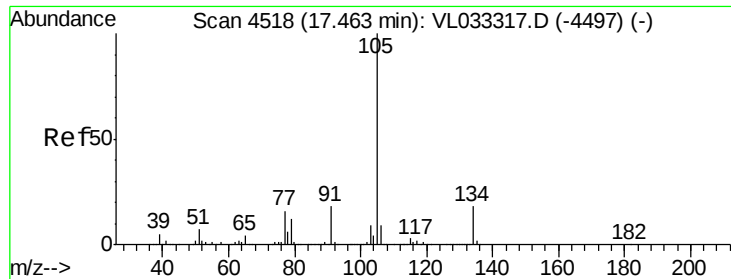
Tgt Ion: 119 Resp: 4785685
 Ion Ratio Lower Upper
 119 100
 91 83.1 67.5 101.3
 134 19.4 15.5 23.3



#66
 Benzyl Chloride
 Concen: 20.349 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 91 Resp: 2768810
 Ion Ratio Lower Upper
 91 100
 126 16.8 13.4 20.0
 128 5.3 4.3 6.5

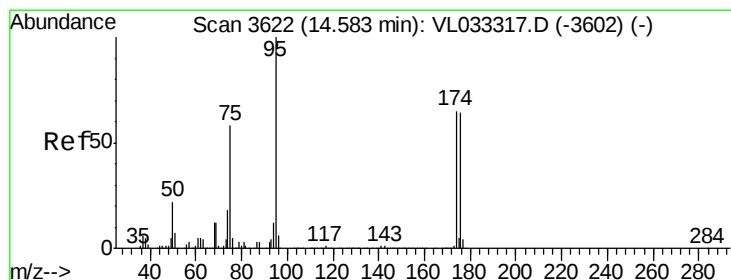
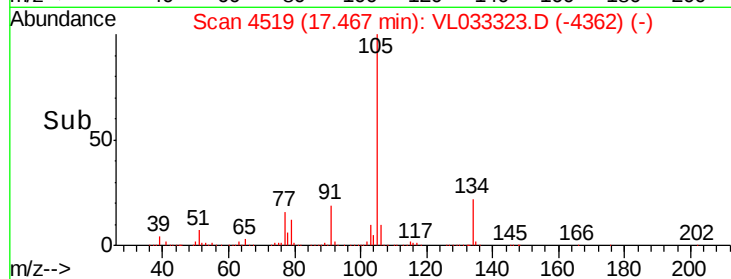
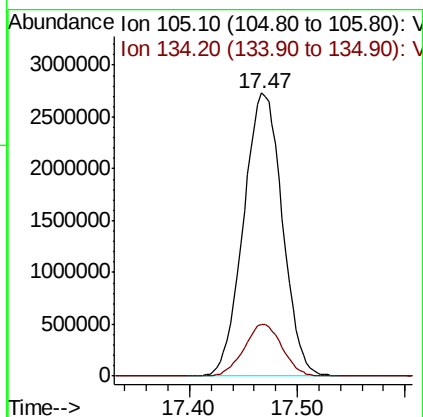
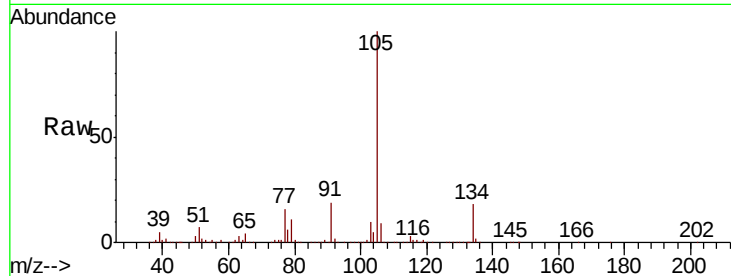




#67
 sec-Butylbenzene
 Concen: 12.995 ppbv
 RT: 17.47 min Scan# 4519
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

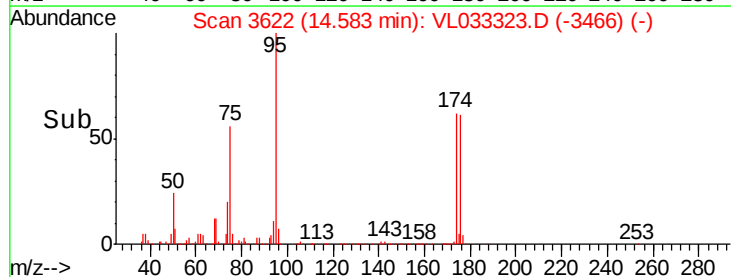
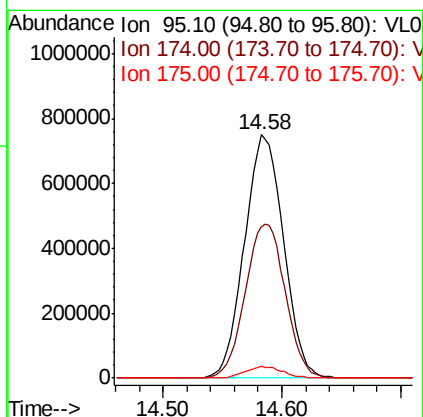
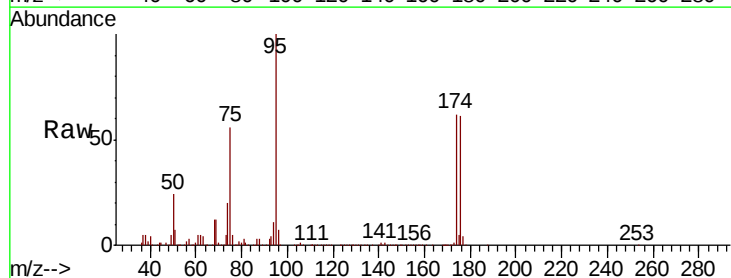
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

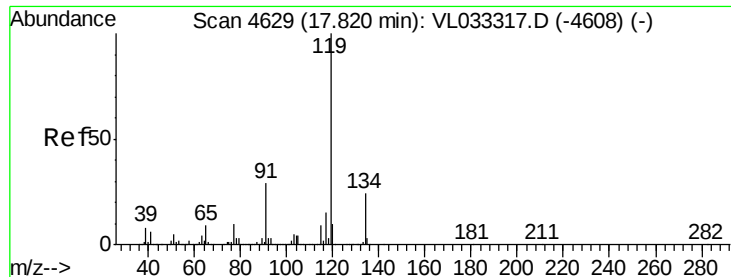
Tgt Ion:105 Resp: 6816920
 Ion Ratio Lower Upper
 105 100
 134 18.0 14.2 21.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.347 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Tgt Ion: 95 Resp: 1703937
 Ion Ratio Lower Upper
 95 100
 174 65.0 52.2 78.4
 175 4.7 3.8 5.6

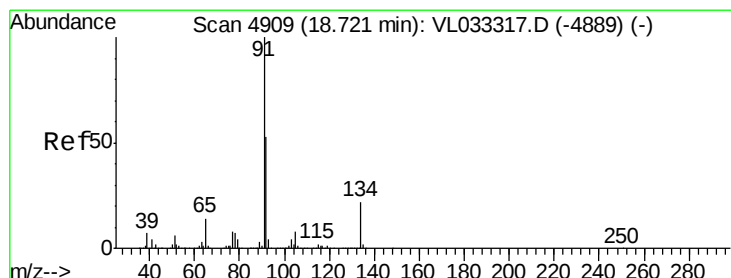
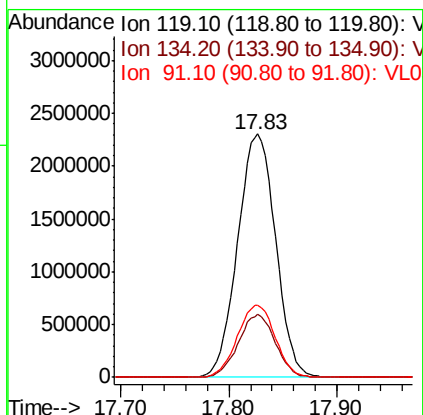
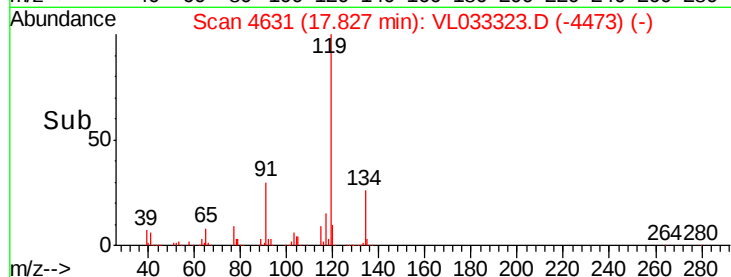
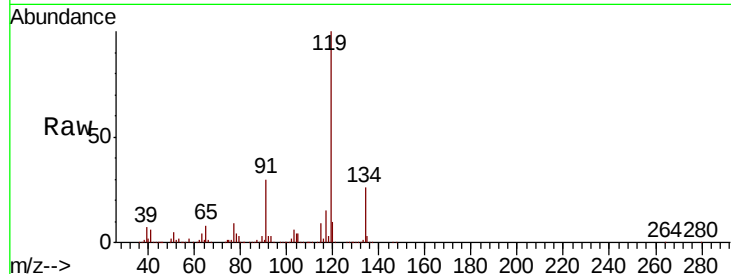




#69
p-Isopropyltoluene
Concen: 13.218 ppbv
RT: 17.83 min Scan# 4631
Delta R.T. 0.01 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

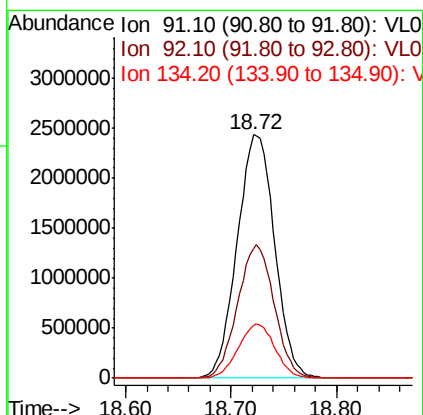
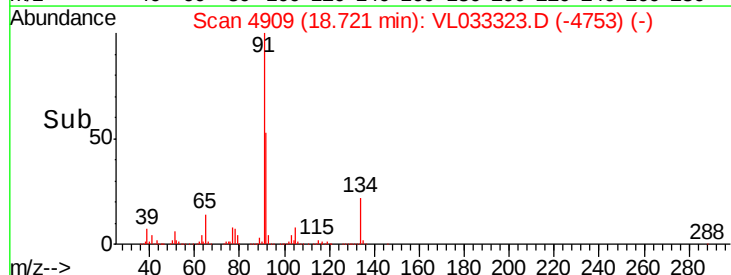
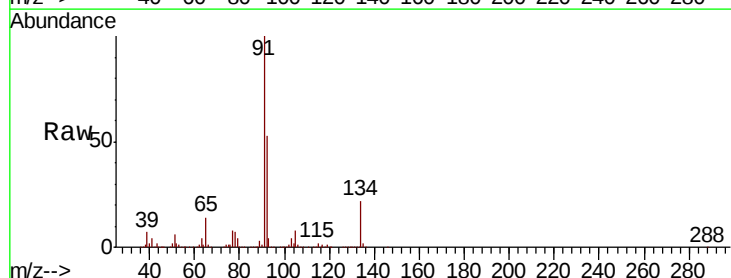
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

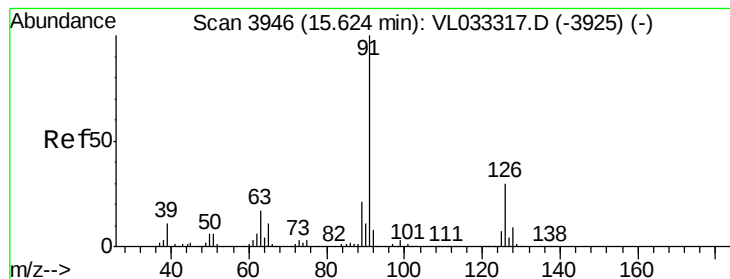
Tgt Ion: 119 Resp: 5626326
Ion Ratio Lower Upper
119 100
134 25.2 19.9 29.9
91 29.8 23.7 35.5



#70
n-Butylbenzene
Concen: 13.210 ppbv
RT: 18.72 min Scan# 4909
Delta R.T. 0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion: 91 Resp: 6006579
Ion Ratio Lower Upper
91 100
92 53.5 42.7 64.1
134 21.9 17.4 26.0





#71

2-Chlorotoluene

Concen: 13.437 ppbv

RT: 15.62 min Scan# 3946

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

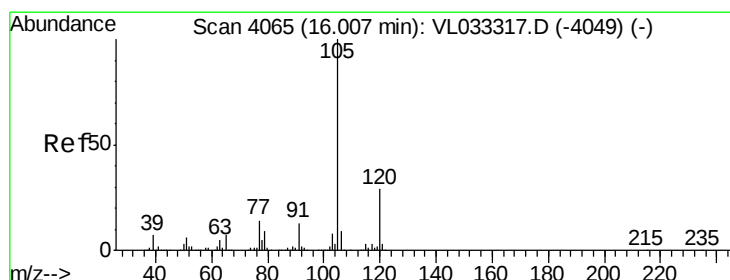
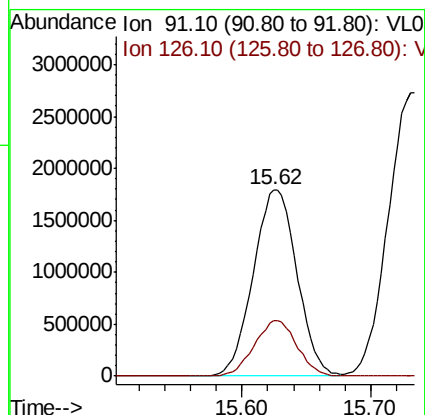
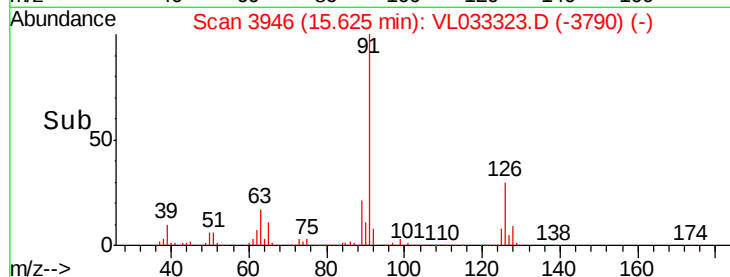
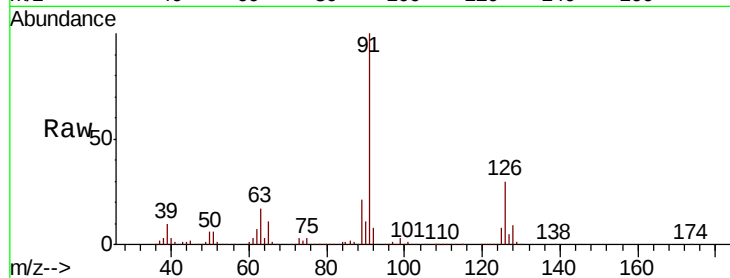
VSTDIC015

Tgt Ion: 91 Resp: 4236413

Ion Ratio Lower Upper

91 100

126 29.1 11.8 47.2



#72

4-Ethyltoluene

Concen: 13.853 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Tgt Ion: 105 Resp: 4502988

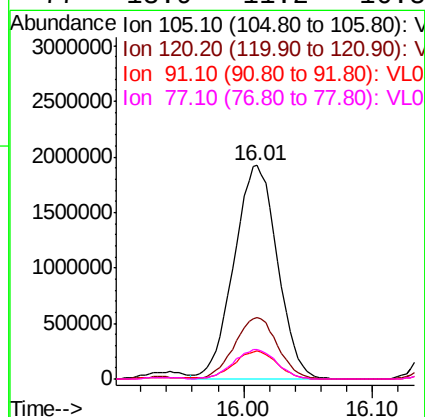
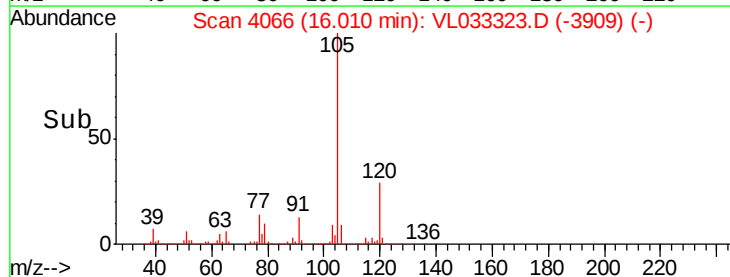
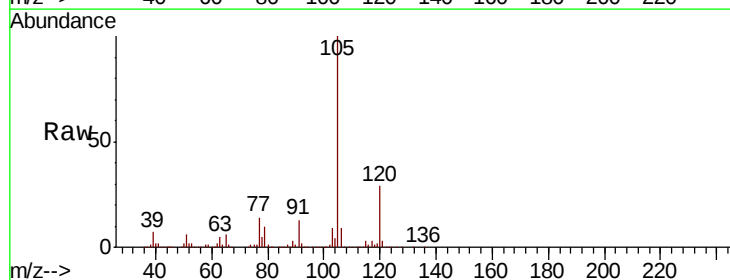
Ion Ratio Lower Upper

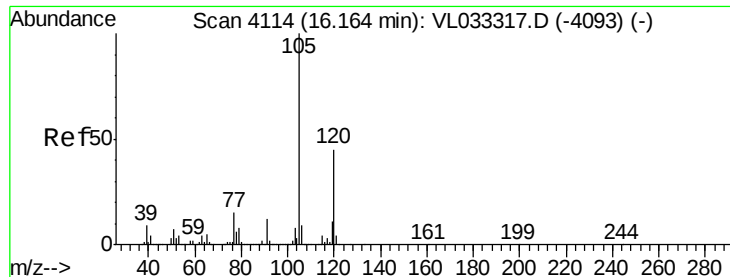
105 100

120 28.6 22.6 33.8

91 13.0 10.4 15.6

77 13.9 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 13.252 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

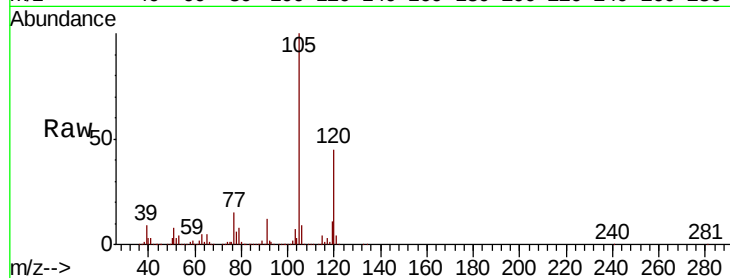
VSTDIC015

Tgt Ion:105 Resp: 4300797

Ion Ratio Lower Upper

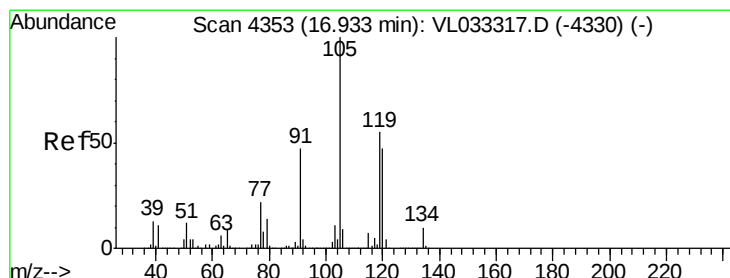
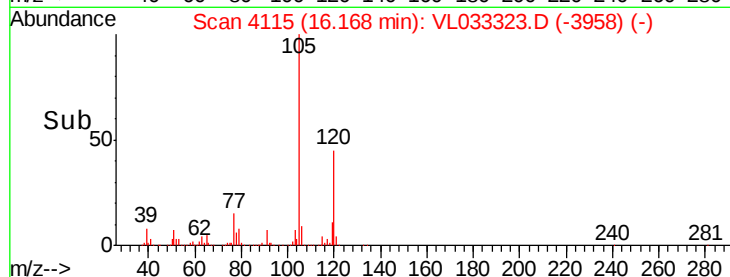
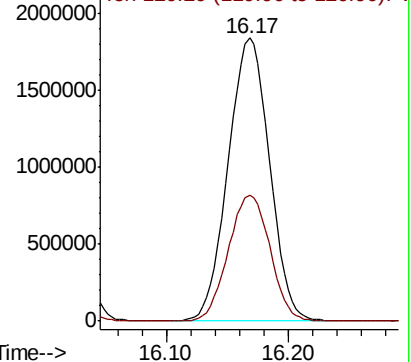
105 100

120 44.6 36.2 54.2



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: 12.776 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Tgt Ion:105 Resp: 4392735

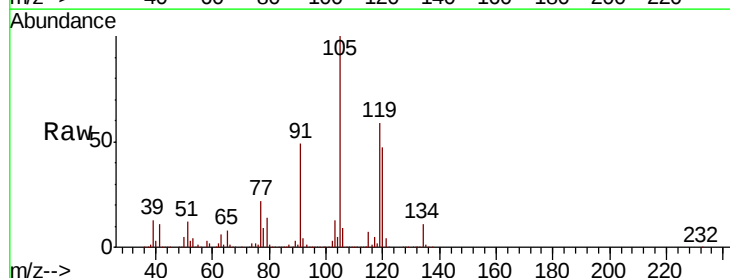
Ion Ratio Lower Upper

105 100

120 46.7 37.2 55.8

91 49.2 38.1 57.1

77 22.1 17.7 26.5

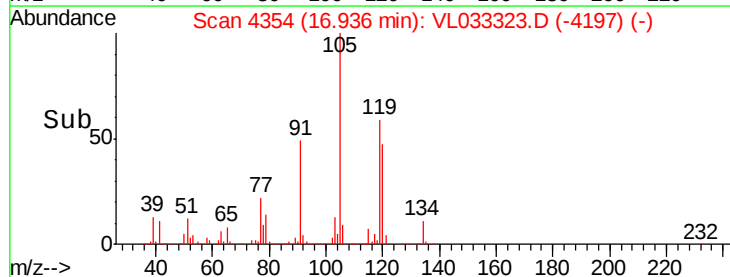
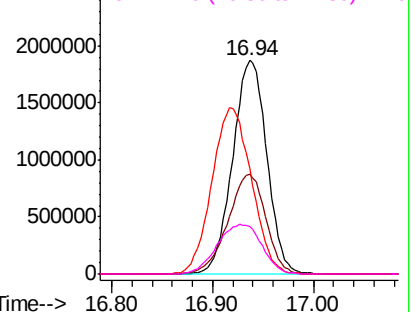


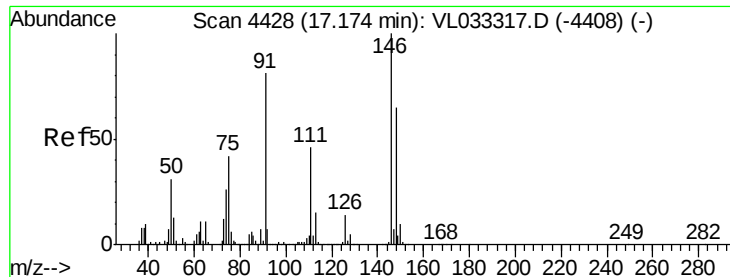
Abundance Ion 105.10 (104.80 to 105.80): V

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: 12.611 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

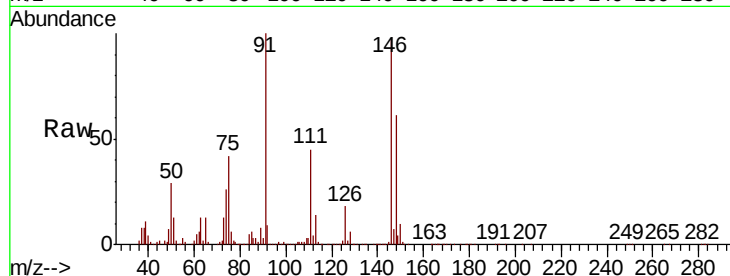
Tgt Ion:146 Resp: 2527823

Ion Ratio Lower Upper

146 100

111 46.0 22.9 68.7

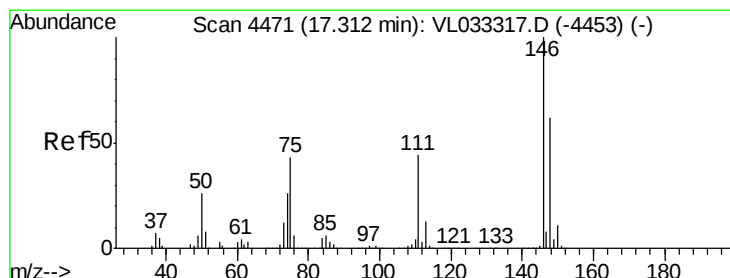
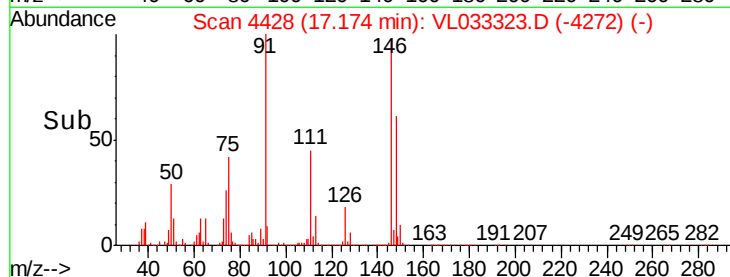
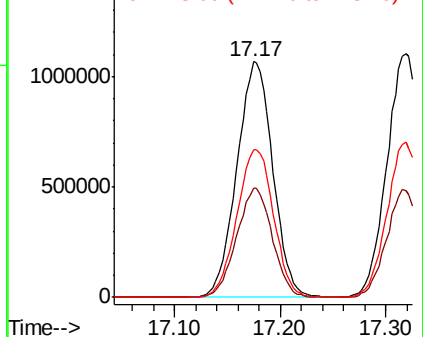
148 64.1 32.2 96.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 13.151 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. 0.01 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

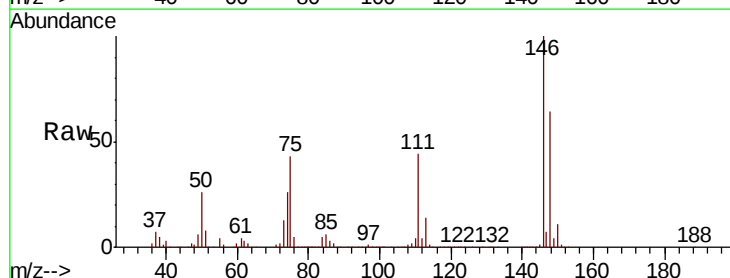
Tgt Ion:146 Resp: 2576538

Ion Ratio Lower Upper

146 100

111 44.2 22.5 67.5

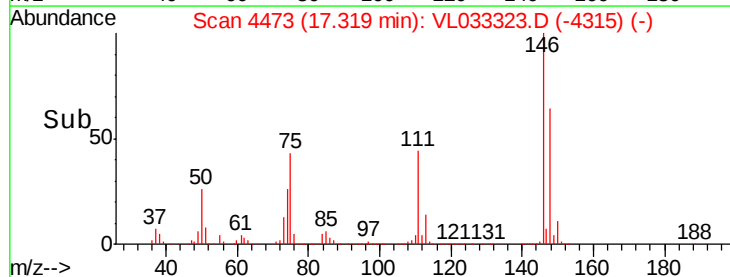
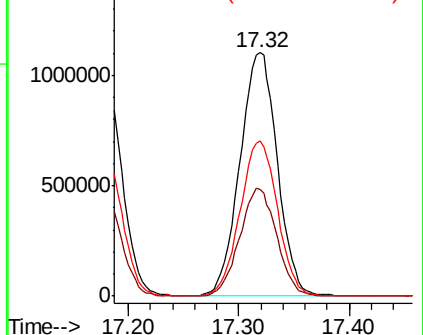
148 64.2 32.3 96.8

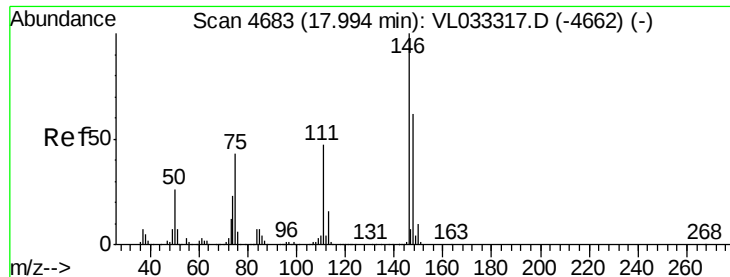


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 13.016 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

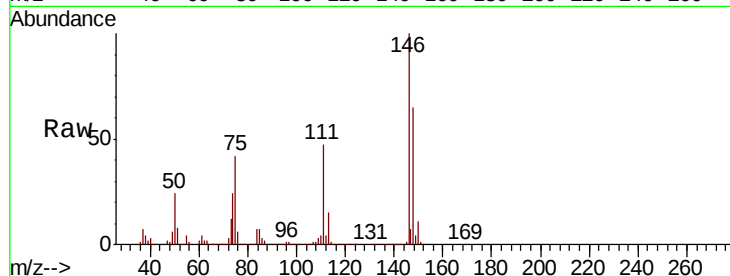
Tgt Ion:146 Resp: 2510462

Ion Ratio Lower Upper

146 100

111 47.5 23.6 71.0

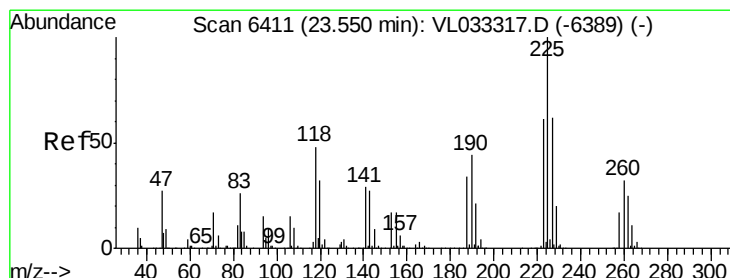
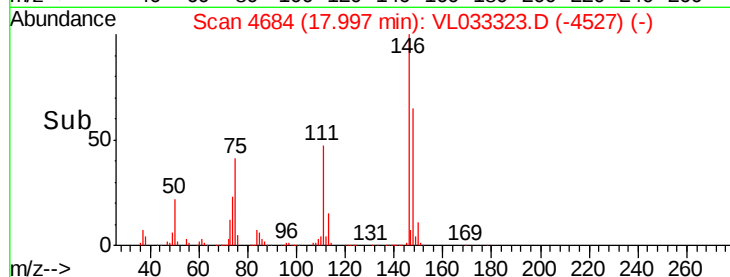
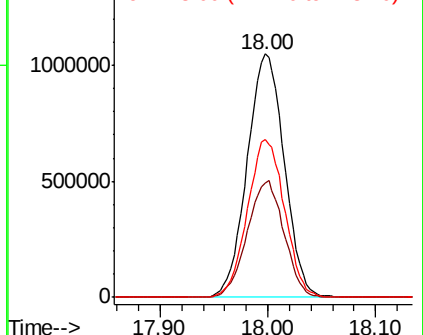
148 64.8 31.6 95.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.633 ppbv

RT: 23.55 min Scan# 6411

Delta R.T. 0.00 min

Lab File: VL033323.D

Acq: 15 Mar 2019 6:48

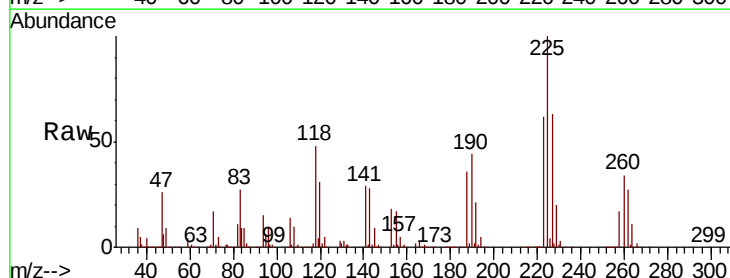
Tgt Ion:225 Resp: 1376617

Ion Ratio Lower Upper

225 100

223 63.1 50.5 75.7

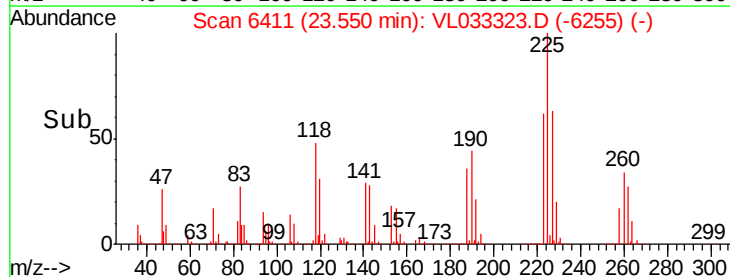
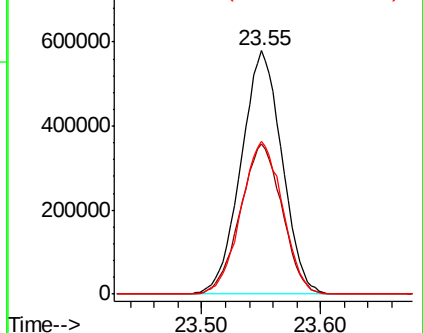
227 63.8 50.9 76.3

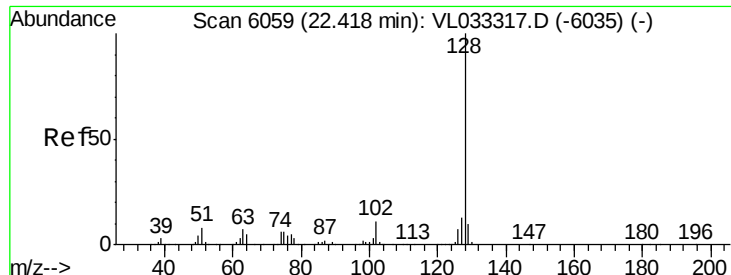


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

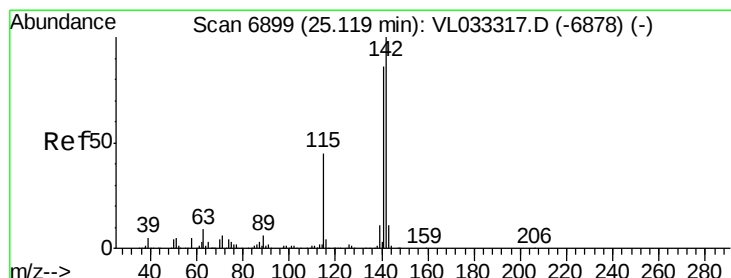
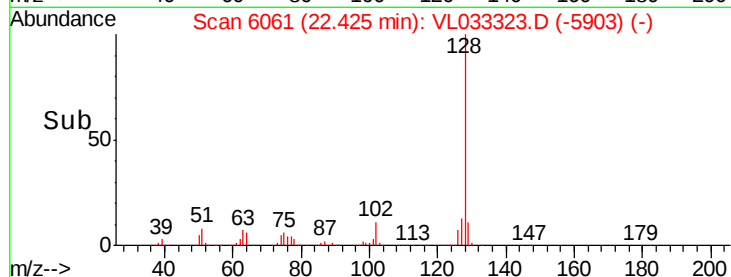
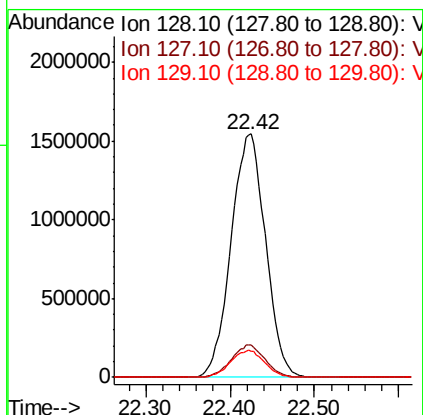
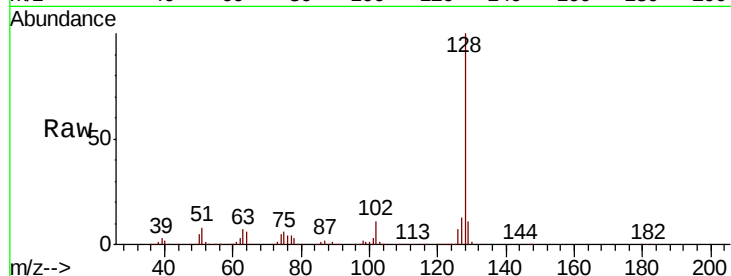




#79
Naphthalene
Concen: 13.126 ppbv
RT: 22.42 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

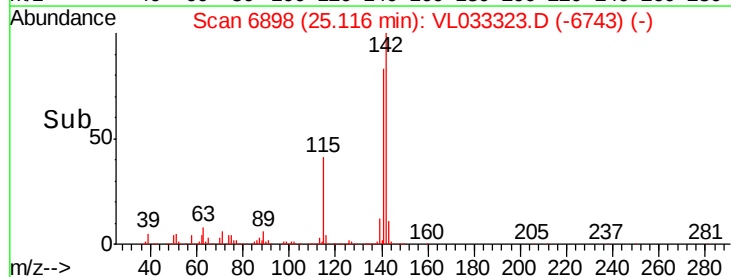
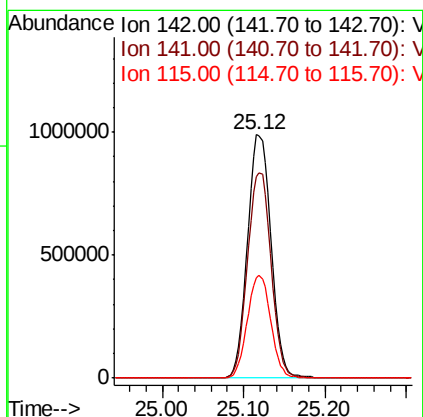
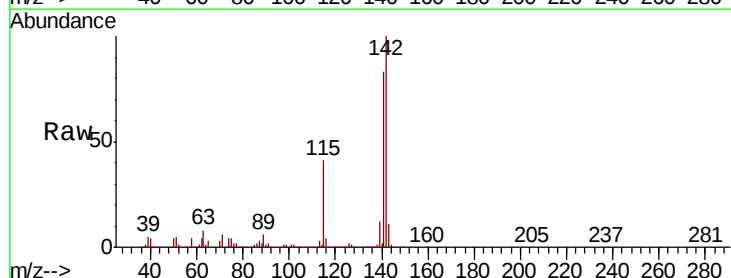
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

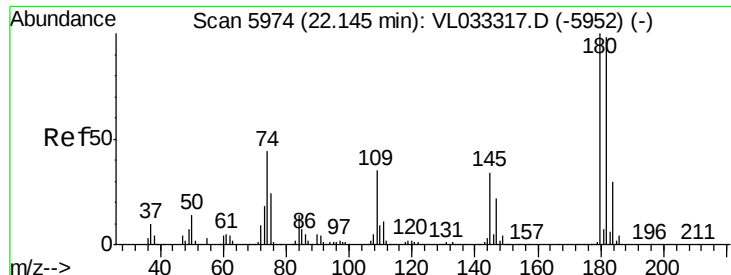
Tgt Ion:128 Resp: 4386590
Ion Ratio Lower Upper
128 100
127 13.4 10.5 15.7
129 10.7 8.3 12.5



#80
Naphthalene, 2-methyl-
Concen: 11.890 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033323.D
Acq: 15 Mar 2019 6:48

Tgt Ion:142 Resp: 1948619
Ion Ratio Lower Upper
142 100
141 84.9 67.4 101.0
115 41.9 33.8 50.8

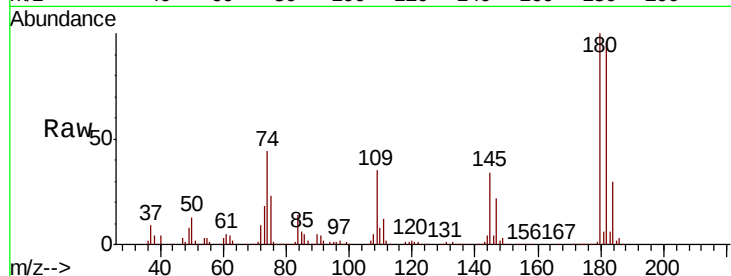




#81
 1,2,4-Trichlorobenzene
 Concen: 12.469 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL033323.D
 Acq: 15 Mar 2019 6:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2180232
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.6 114.8
 184 30.9 24.3 36.5



Abundance Ion 180.00 (179.70 to 180.70): V
 1000000 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

